

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
HOVER CAMERA

ISSUED TO
Shenzhen Zero Zero Infinity Technology Co., Ltd.

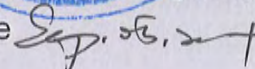
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Date: 
Sep. 05, 2019

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Date: 
Sep. 05, 2019

Report No.: BL-SZ1960488-601
EUT Name: HOVER CAMERA
Model Name: H2-1106
Brand Name: ZEROZERO ROBOTICS
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: 2AIDWH2-1106

Test Conclusion: Pass
Test Date: Jul. 04, 2019 ~ Jul. 31, 2019
Date of Issue: Sep. 05, 2019

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Aug. 29, 2019</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Sep. 05, 2019</u>	<u>Update the Run software on page 9</u>

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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	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. 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. 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.
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.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shenzhen Zero Zero Infinity Technology Co., Ltd.
Address	Room A211-B, F2, Shanshui Building, No.4093, Liuxian Avenue, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Zero Zero Infinity Technology Co., Ltd.
Address	Room A211-B, F2, Shanshui Building, No.4093, Liuxian Avenue, Nanshan District, Shenzhen, China

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Type	HOVER CAMERA
Model Name Under Test	H2-1106
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g and 802.11n (HT20/40) 2.4G ISM Band (GFSK modulation)
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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 MHz + (N-1)*5 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 MHz + (N-1)*5 MHz, where - f _c = “Operating Frequency” in MHz, - N = “Channel Number” with the range from 3 to 9.
Modulation Type		DSSS, OFDM
Product Type		☒ Mobile ☐ Portable ☐ Fix Location
Antenna System (eg., MIMO, Smart Antenna)		N/A
Categorization as Correlated or Completely Uncorrelated		N/A
Antenna Type	Antenna 0 (ANT 0)	FPCB Antenna
	Antenna 1 (ANT 1)	
Antenna Gain	Antenna 0 (ANT 0)	0.74 dBi
	Antenna 1 (ANT 1)	0.69 dBi
About the Product		Only the WIFI 802.11b, 802.11g and 802.11n (HT20/40) was tested in this report.

Mode	Antenna		
	Antenna 0	Antenna 1	Antenna 0 + Antenna1
802.11b	√	√	--
802.11g	√	√	--
802.11n20	√	√	√
802.11n40	√	√	√

Modulation technology	Modulation Type	Transfer Rate (Mbps)
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-20MHz)	BPSK	6.5
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65
OFDM (802.11n-40MHz)	BPSK	13.5
	QPSK	27/40.5
	16QAM	54/81/108
	64QAM	121.5/135

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 Mbps	1/6/11	3/6/9
6dB Bandwidth	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/6/11	3/6/9
Conducted Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/6/11	3/6/9
Conducted Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/6/11	3/6/9
Radiated Spurious Emission	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/6/11	3/6/9
Band Edge	11b/11g/11n20/11n40	1/6/6.5/13.5 Mbps	1/6/11	3/6/9
Power spectral density (PSD)	11b/11g/11n20/11n40	1/6/6.5/13.5 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

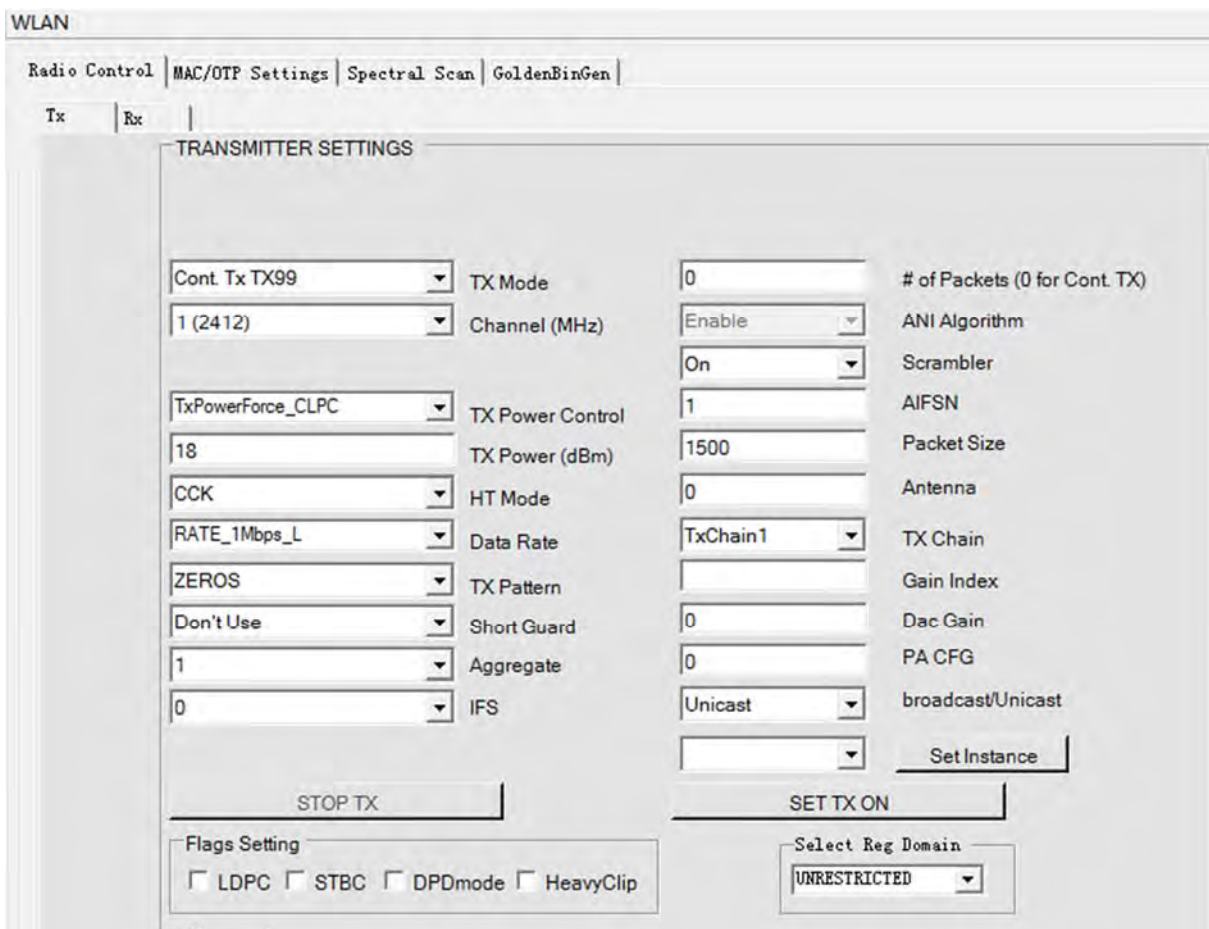
EUT Software Settings:

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

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	Test software is set by engineering instruction "QRCT3" in engineering mode			
Mode	Channel	Soft Set		
		ANT 0	ANT 1	MIMO
802.11 b	All	20	20	--
802.11 g	All	20	20	--
802.11 n20	All	20	20	16
802.11 n40	All	18	18	14

Run software:



The screenshot shows the 'WLAN' configuration window with the 'Radio Control' tab selected. The 'Tx' sub-tab is active, displaying 'TRANSMITTER SETTINGS'. The settings are organized into two columns. The left column contains dropdown menus for 'Cont. Tx TX99', '1 (2412)', 'TxPowerForce_CLPC', '18', 'CCK', 'RATE_1Mbps_L', 'ZEROS', 'Don't Use', '1', and '0'. The right column contains dropdown menus for 'TX Mode', 'Channel (MHz)', 'TX Power Control', 'TX Power (dBm)', 'HT Mode', 'Data Rate', 'TX Pattern', 'Short Guard', 'Aggregate', 'IFS', '0', 'Enable', 'On', '1', '1500', '0', 'TxChain1', '0', '0', 'Unicast', and '0'. A 'Set Instance' button is located at the bottom right of the settings area. Below the settings, there is a 'STOP TX' button and a 'Flags Setting' section with checkboxes for 'LDPC', 'STBC', 'DPDmode', and 'HeavyClip'. At the bottom right, there is a 'Select Reg Domain' dropdown menu set to 'UNRESTRICTED'.

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	RSS-Gen (Issue 5, Apr. 2018)	General Requirements for Compliance of Radio Apparatus
5	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)	11.55 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2019.06.13	2020.06.12
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2019.06.13	2020.06.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2018.11.07	2019.11.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2019.06.13	2020.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2019.06.13	2020.06.12
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2019.06.15	2020.06.14
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2019.06.15	2020.06.14
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2019.06.14	2020.06.13
Temperature Chamber	AHK	SP20	1412	2019.06.24	2020.06.23
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.09	2019.11.08
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.07.19	2020.07.18
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2019.06.15	2020.06.14
Power Amplifier	OPHIR RF	5225F	1037	2019.02.28	2020.02.27
Power Amplifier	OPHIR RF	5273F	1016	2019.02.28	2020.02.27
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Mouth Simulator	B&K	4227	2423931	2018.11.15	2019.11.14
Sound Calibrator	B&K	4231	2430337	2018.11.15	2019.11.14

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Sound Level Meter	B&K	NL-20	00844023	2018.11.15	2019.11.14
Ear Simulator	B&K	4185	2409449	2018.11.15	2019.11.14
Ear Simulator	B&K	4195	2418189	2018.11.15	2019.11.14
Audio analyzer	B&K	UPL 16	100129	2018.11.15	2019.11.14
RF Cable 1	ROHDE&SCHWARZ	JUNFLON	APR0914004	2018.07.10	2019.10.09
RF Cable 2	Huber&suhner	RG_400_/U	N/A	2018.07.10	2019.10.09
RF Cable 3	Huber&suhner	RG_400_/U	N/A	2018.07.10	2019.10.09
RF Cable 4	Huber&suhner	SX_04172_ B-60	N/A	2018.07.10	2019.10.09
RF Cable 5	COM-MW	RFJA360- 2.92mm- J/J3M	N/A	2018.07.10	2019.10.09

Note: The calibration period on the Cable is three month.

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	±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	±4%

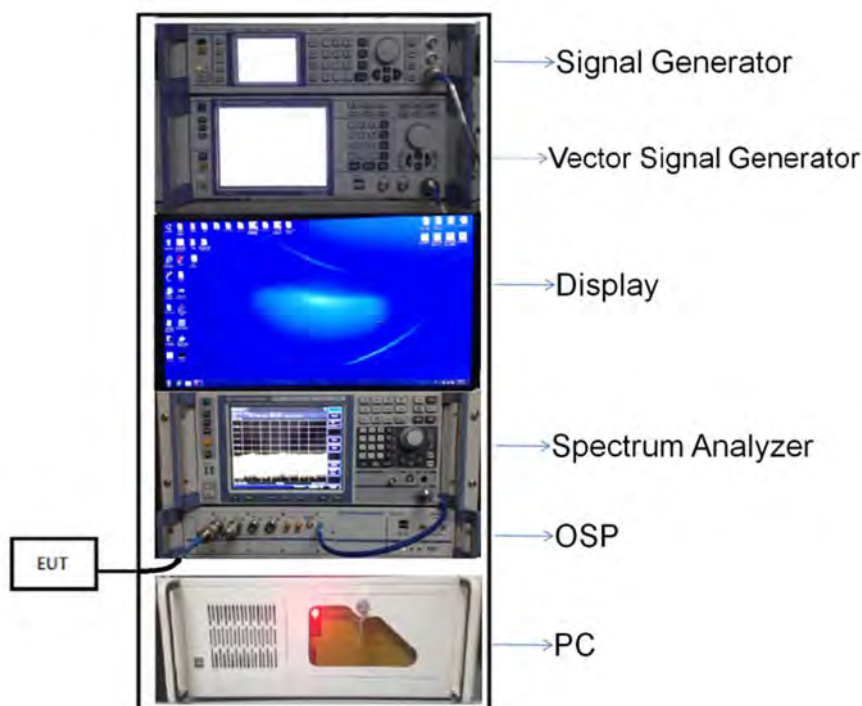
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

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

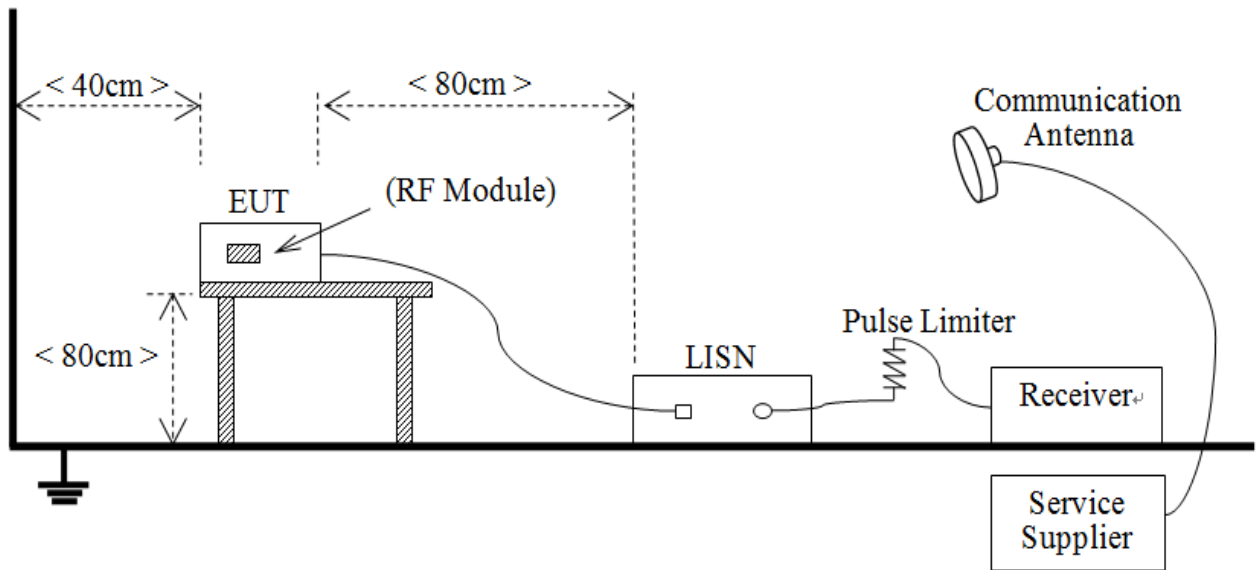
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



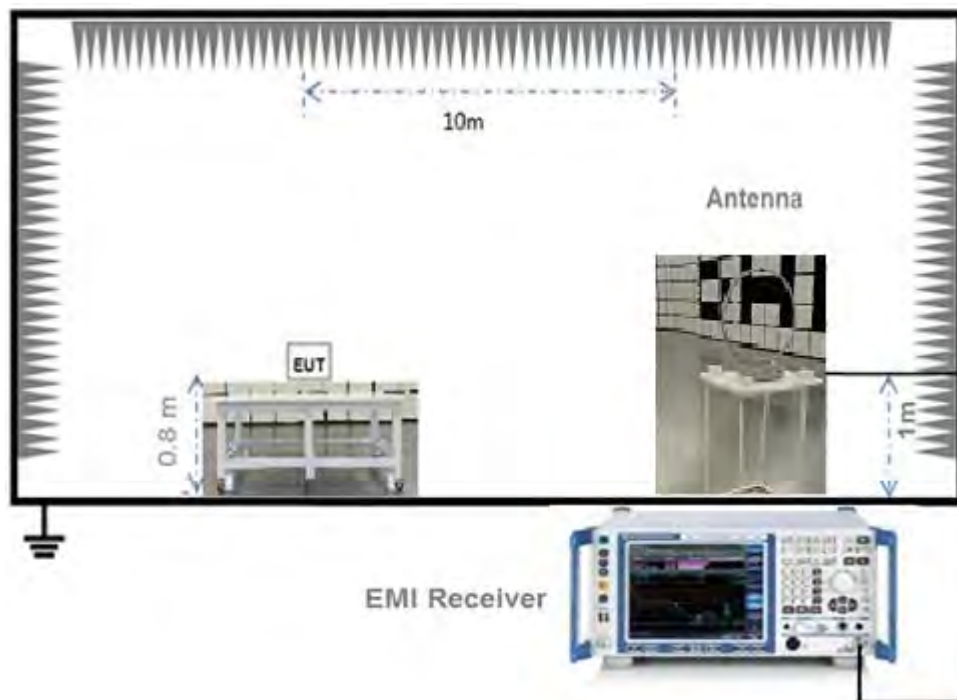
(Diagram 1)

4.4.2 For AC Power Supply Port Test



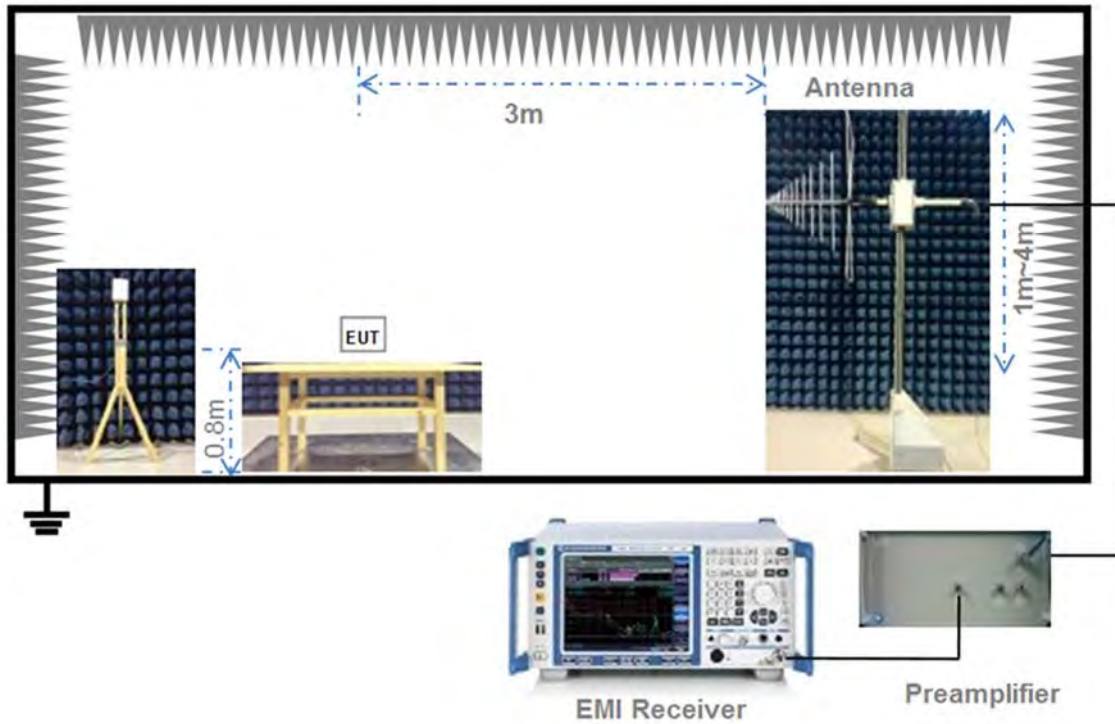
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



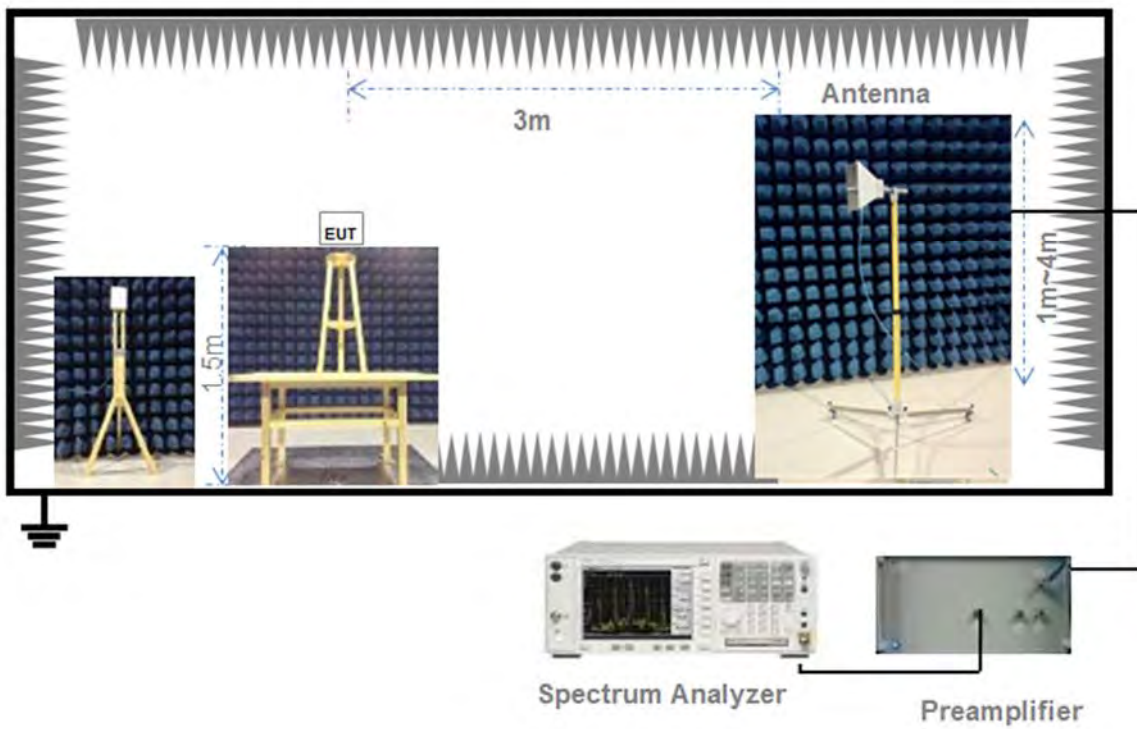
(Diagram 3)

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 (6)

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 (4)

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.

5.36dB Bandwidth

5.3.1 Limit

FCC §15.247(a); RSS-GEN, 6.6

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 ($\mu\text{V/m}$)	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 dB μ V/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 $\geq 3 \times$ 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 (2)

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

ANT 0

Test Mode	Duty Cycle	T (ms)	1/T(kHz)
802.11b	98.58%	12.44	0.08
802.11g	93.28%	2.056	0.49
802.11n-20 MHz	91.54%	1.915	0.52
802.11n-40 MHz	88.79%	0.943	1.06

ANT 1

Test Mode	Duty Cycle	T (ms)	1/T(kHz)
802.11b	98.58%	12.44	0.08
802.11g	94.10%	2.056	0.49
802.11n-20 MHz	93.51%	1.915	0.52
802.11n-40 MHz	86.46%	0.945	1.06

MIMO

ANT 0

Test Mode	Duty Cycle	T (ms)	1/T(kHz)
802.11n-20 MHz	93.51%	1.915	0.52
802.11n-40 MHz	85.37%	0.945	1.06

ANT 1

Test Mode	Duty Cycle	T (ms)	1/T(kHz)
802.11n-20 MHz	94.17%	1.922	0.52
802.11n-40 MHz	85.32%	0.947	1.06

ANT 0

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	22.83	191.87	30	1000	Pass
Middle	22.35	171.79			Pass
High	22.23	167.11			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	27.57	571.48	30	1000	Pass
Middle	27.00	501.19			Pass
High	26.91	490.91			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	27.91	618.02	30	1000	Pass
Middle	27.36	544.50			Pass
High	27.26	532.11			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	26.89	488.65	30	1000	Pass
Middle	26.34	430.53			Pass
High	26.14	411.15			Pass

ANT 0

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.82	95.99	30	1000	Pass
Middle	19.29	84.96			Pass
High	19.11	81.51			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.02	79.83	30	1000	Pass
Middle	18.50	70.83			Pass
High	18.30	67.64			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.37	86.58	30	1000	Pass
Middle	18.77	75.40			Pass
High	18.60	72.51			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.23	52.80	30	1000	Pass
Middle	17.06	50.77			Pass
High	16.87	48.60			Pass

ANT 1

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.16	207.01	30	1000	Pass
Middle	22.65	184.08			Pass
High	22.68	185.35			Pass

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	27.85	609.54	30	1000	Pass
Middle	27.33	540.75			Pass
High	27.34	542.00			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	27.93	620.87	30	1000	Pass
Middle	27.41	550.81			Pass
High	27.43	553.35			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	27.09	511.68	30	1000	Pass
Middle	26.63	460.26			Pass
High	26.43	439.54			Pass

ANT 1

Average Power Test Data

802.11b Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	20.18	104.28	30	1000	Pass
Middle	19.64	92.09			Pass
High	19.61	91.45			Pass

802.11g Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.28	84.81	30	1000	Pass
Middle	18.76	75.24			Pass
High	18.72	74.55			Pass

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.23	83.78	30	1000	Pass
Middle	18.72	74.50			Pass
High	18.68	73.82			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	17.91	61.83	30	1000	Pass
Middle	17.48	56.00			Pass
High	17.19	52.38			Pass

MIMO

ANT 0

Peak Power Test Data

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.69	233.88	30	1000	Pass
Middle	23.21	209.41			Pass
High	22.92	195.88			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.02	200.45	30	1000	Pass
Middle	22.57	180.72			Pass
High	22.35	171.79			Pass

ANT 0

Average Power Test Data

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.00	31.63	30	1000	Pass
Middle	14.48	28.06			Pass
High	13.80	24.00			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	12.79	19.00	30	1000	Pass
Middle	13.46	22.17			Pass
High	13.20	20.88			Pass

MIMO

ANT 1

Peak Power Test Data

802.11n-20 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	24.02	252.35	30	1000	Pass
Middle	23.45	221.31			Pass
High	23.37	217.27			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	23.27	212.32	30	1000	Pass
Middle	22.88	194.09			Pass
High	22.67	184.93			Pass

ANT 1

Average Power Test Data

802.11n-20 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.26	33.58	30	1000	Pass
Middle	14.66	29.25			Pass
High	14.53	28.39			Pass

802.11n-40 MHz Mode:

Channel	Measured Output Average Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	14.15	26.00	30	1000	Pass
Middle	13.74	23.66			Pass
High	13.53	22.54			Pass

A.2 Bandwidth

Test Data

ANT 0

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	7.709717	13.487699	≥ 500
Middle	7.659668	13.256151	≥ 500
High	8.160156	13.256151	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.519287	17.192475	≥ 500
Middle	16.120117	17.018813	≥ 500
High	15.869873	17.134588	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.871094	18.176556	≥ 500
Middle	16.120117	18.002894	≥ 500
High	16.220215	18.060781	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.221924	36.300000	≥ 500
Middle	35.221924	36.300000	≥ 500
High	35.522217	36.300000	≥ 500

ANT 1

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	7.709717	13.892909	≥ 500
Middle	7.609619	13.371925	≥ 500
High	8.660889	13.314038	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.370605	17.250362	≥ 500
Middle	15.969971	17.076700	≥ 500
High	15.769775	17.018813	≥ 500

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.971191	18.292330	≥ 500
Middle	16.670898	17.945007	≥ 500
High	16.120117	18.060781	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.171875	36.400000	≥ 500
Middle	35.221924	36.300000	≥ 500
High	35.522217	36.400000	≥ 500

MIMO

ANT 0

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	15.769775	17.945007	≥ 500
Middle	16.620850	17.829233	≥ 500
High	16.270264	17.887120	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.221924	36.300000	≥ 500
Middle	35.171875	36.200000	≥ 500
High	35.722168	36.300000	≥ 500

ANT 1

802.11n-20MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	16.620850	17.887120	≥ 500
Middle	16.620850	17.771346	≥ 500
High	16.670898	17.829233	≥ 500

802.11n-40MHz Mode:

Channel	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limits (kHz)
Low	35.772217	36.200000	≥ 500
Middle	35.221924	36.200000	≥ 500
High	35.772217	36.300000	≥ 500

Test plots

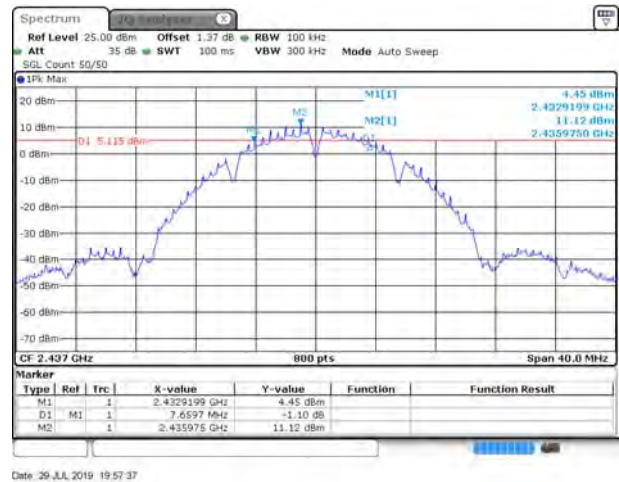
ANT 0

6 dB Bandwidth

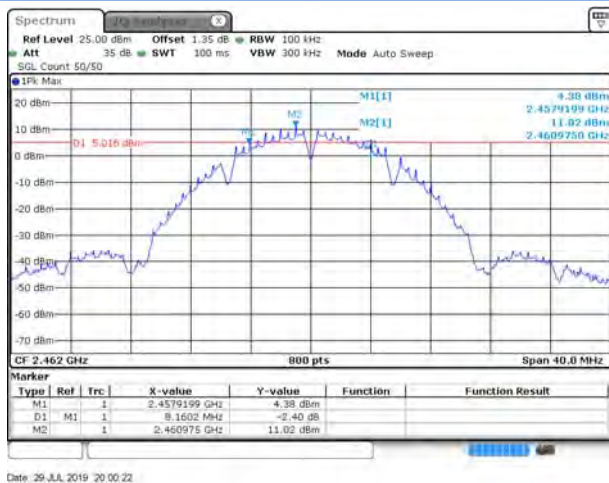
802.11b LOW CHANNEL



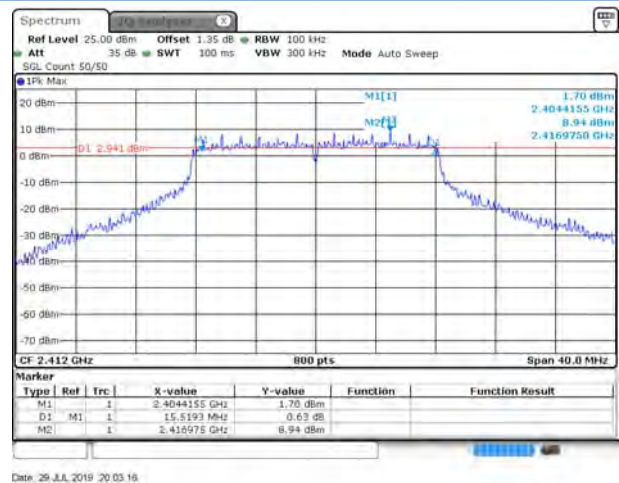
802.11b MIDDLE CHANNEL



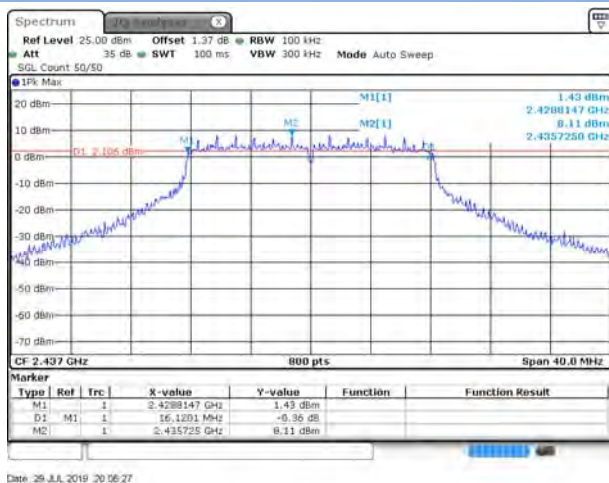
802.11b HIGH CHANNEL



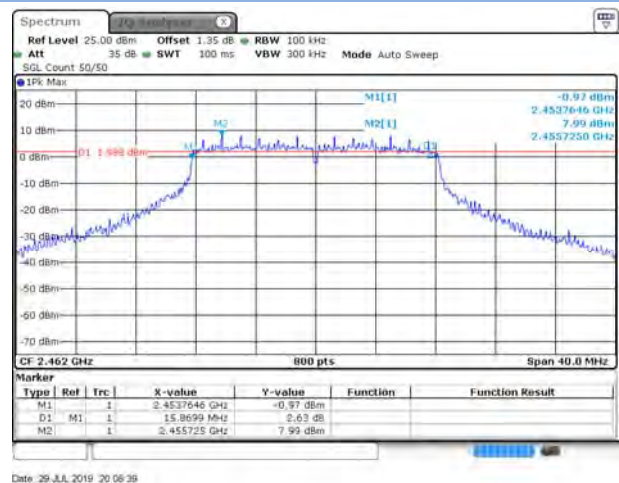
802.11g LOW CHANNEL



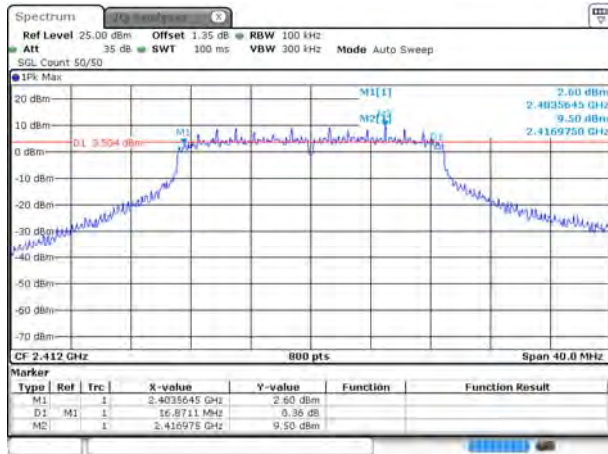
802.11g MIDDLE CHANNEL



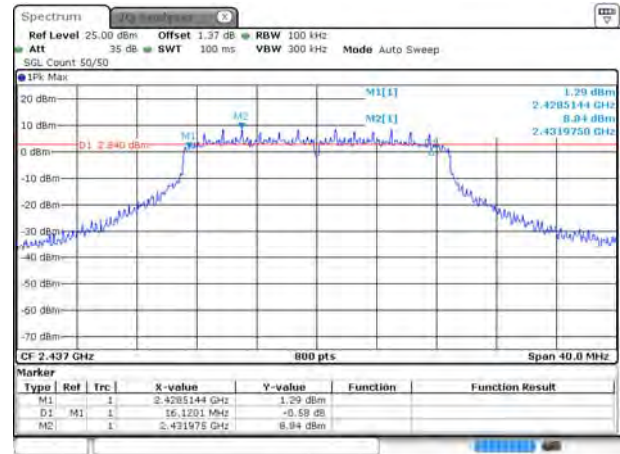
802.11g HIGH CHANNEL



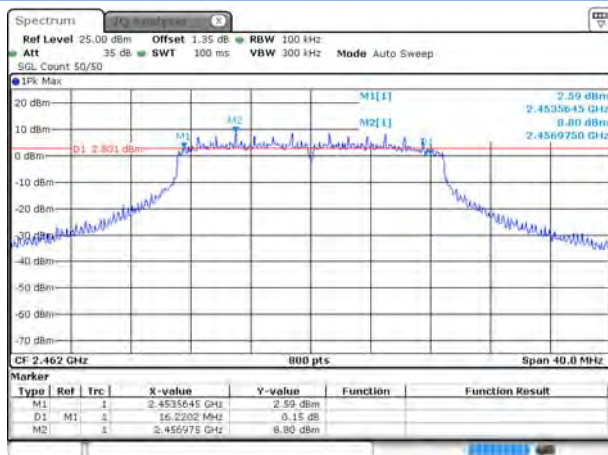
802.11n-20 MHz LOW CHANNEL



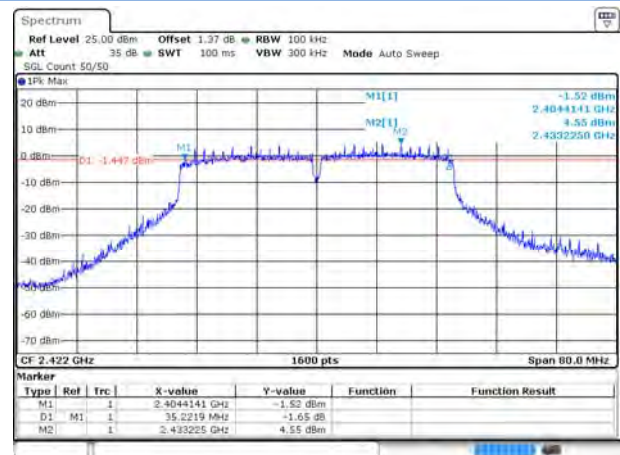
802.11 n-20 MHz MIDDLE CHANNEL



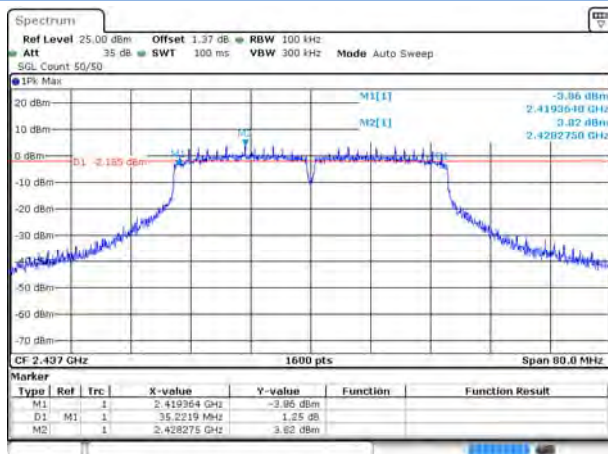
802.11n-20 MHz HIGH CHANNEL



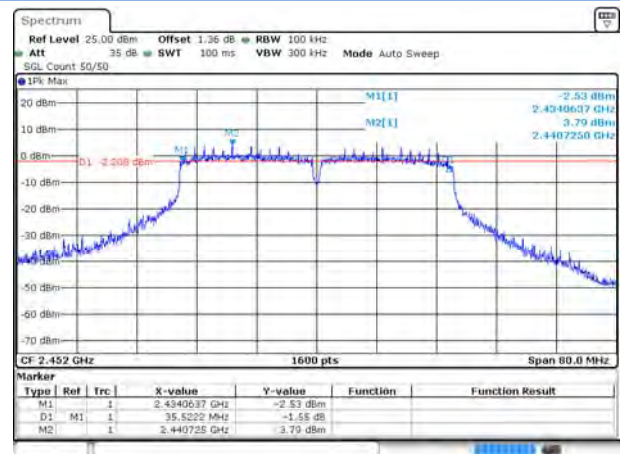
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



99% Bandwidth

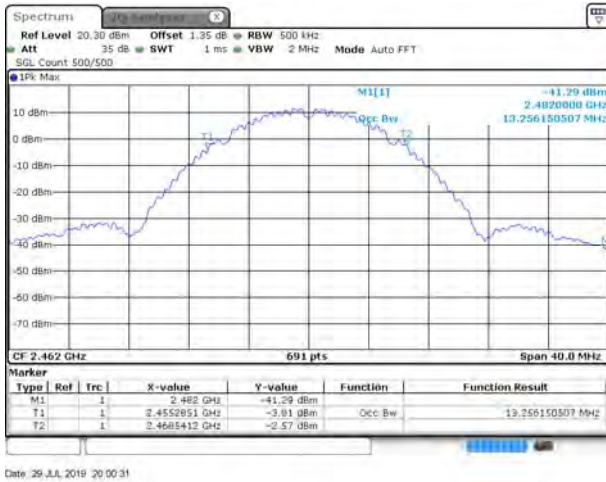
802.11b LOW CHANNEL



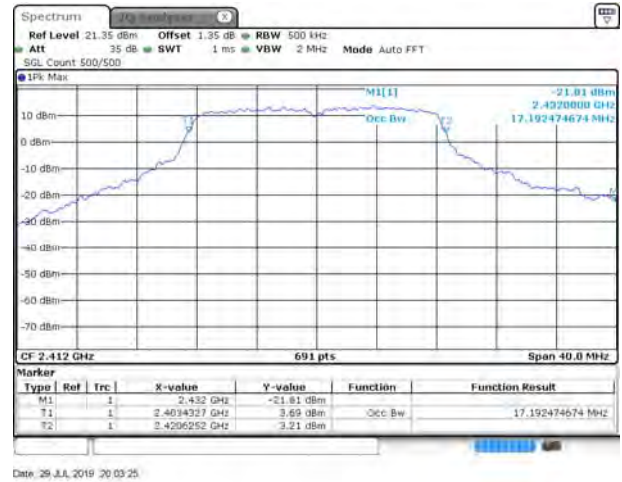
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



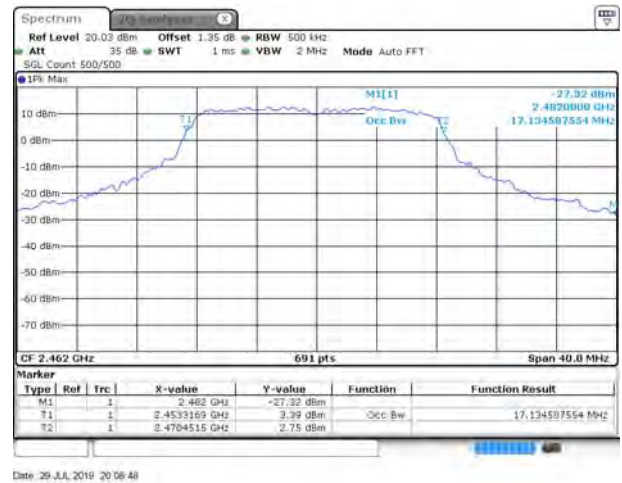
802.11g LOW CHANNEL



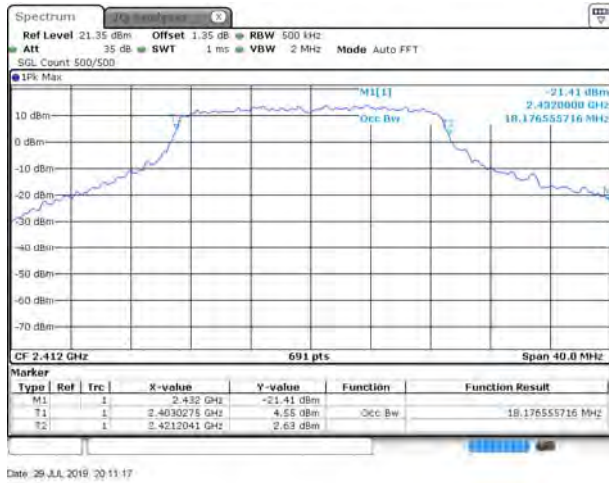
802.11g MIDDLE CHANNEL



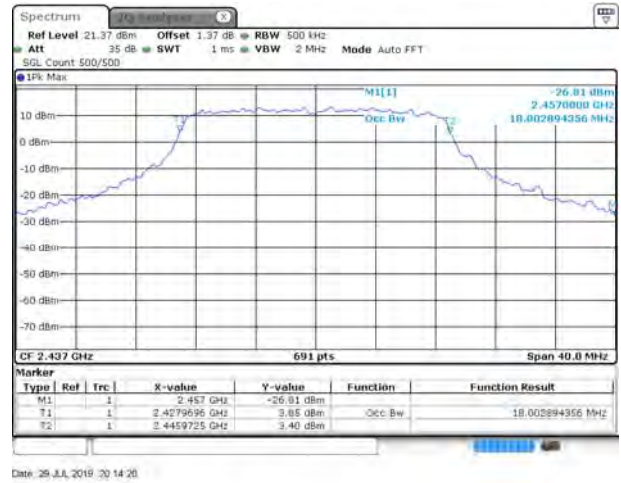
802.11g HIGH CHANNEL



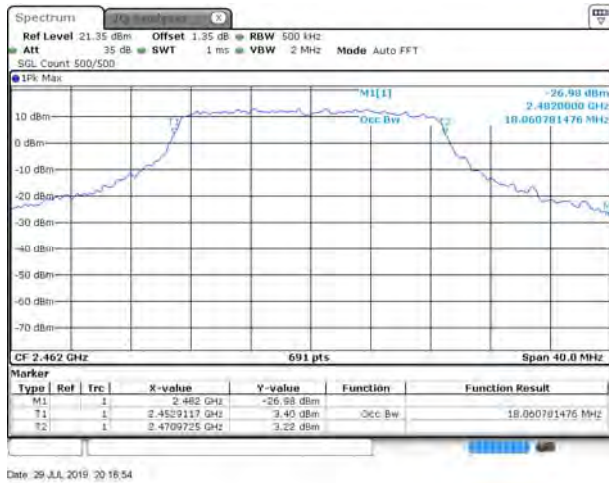
802.11n-20 MHz LOW CHANNEL



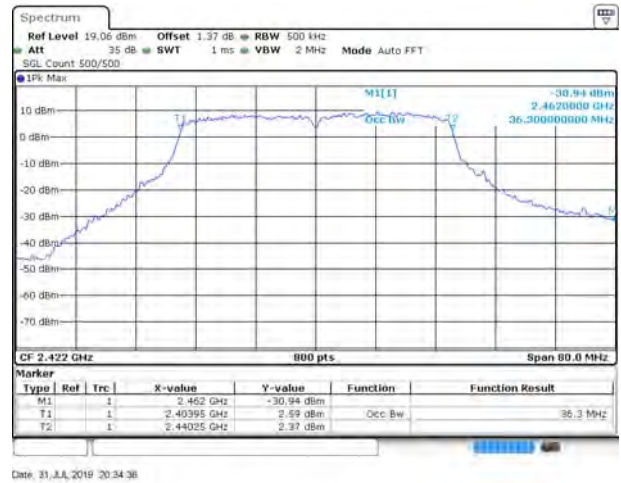
802.11 n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



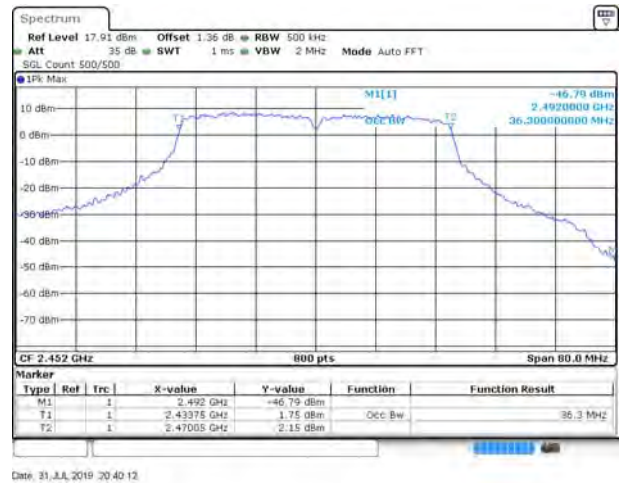
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



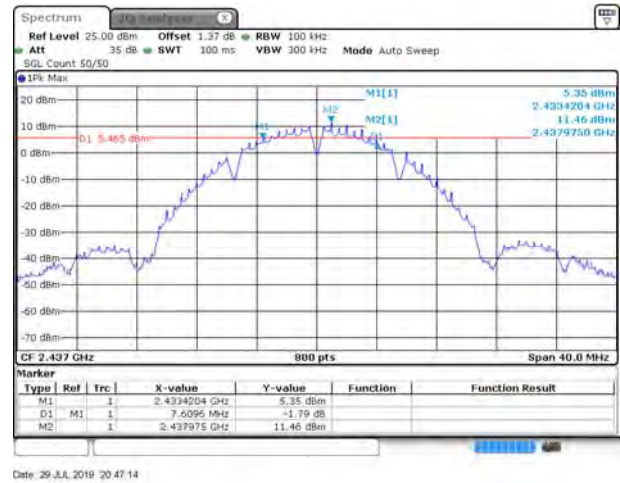
ANT 1

6 dB Bandwidth

802.11b LOW CHANNEL



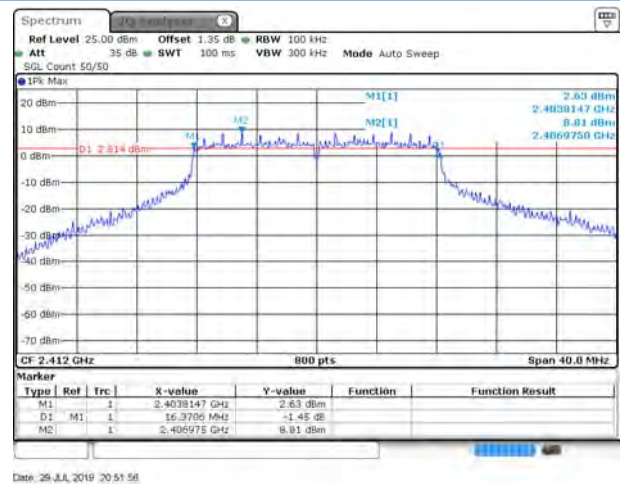
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



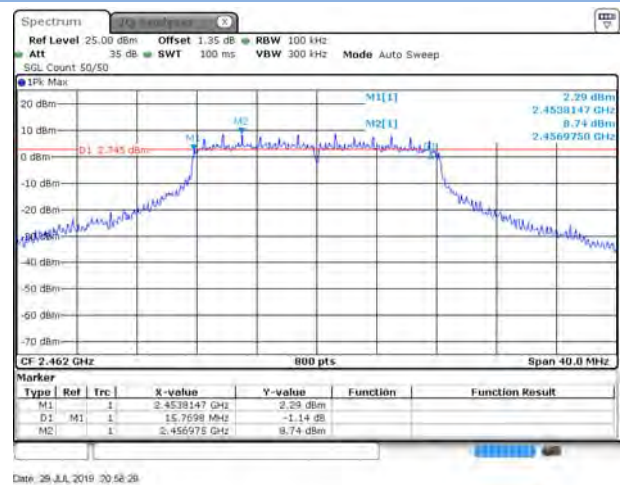
802.11g LOW CHANNEL



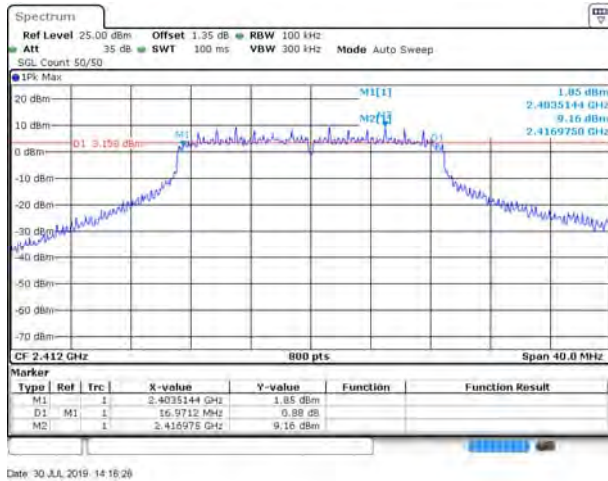
802.11g MIDDLE CHANNEL



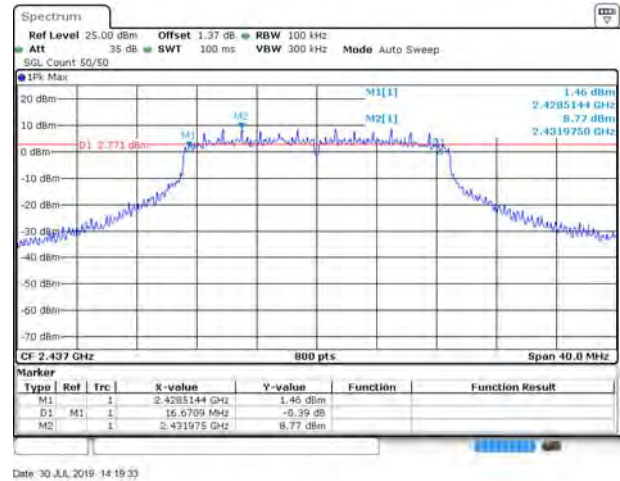
802.11g HIGH CHANNEL



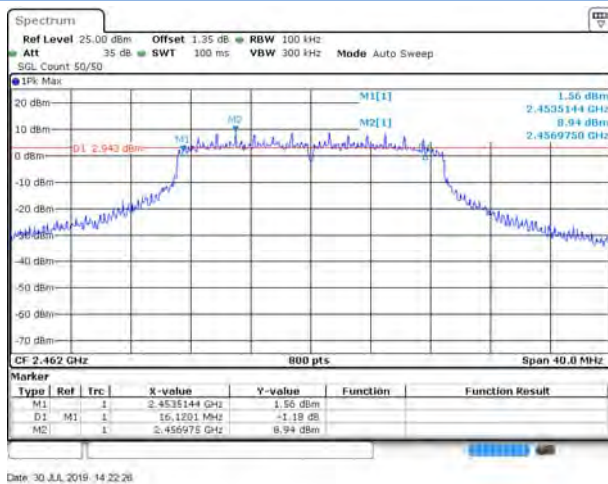
802.11n-20 MHz LOW CHANNEL



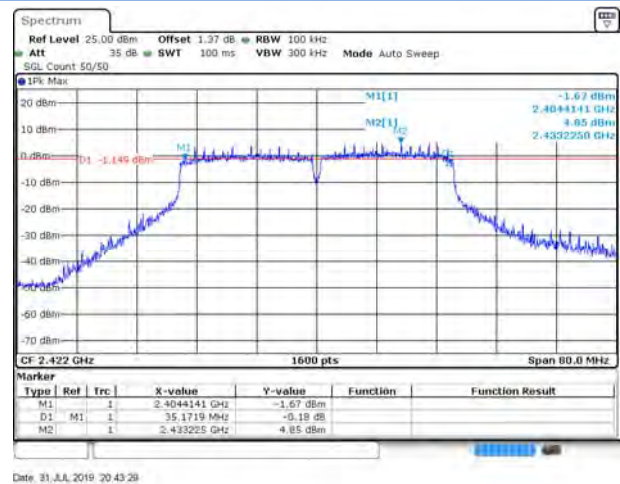
802.11 n-20 MHz MIDDLE CHANNEL



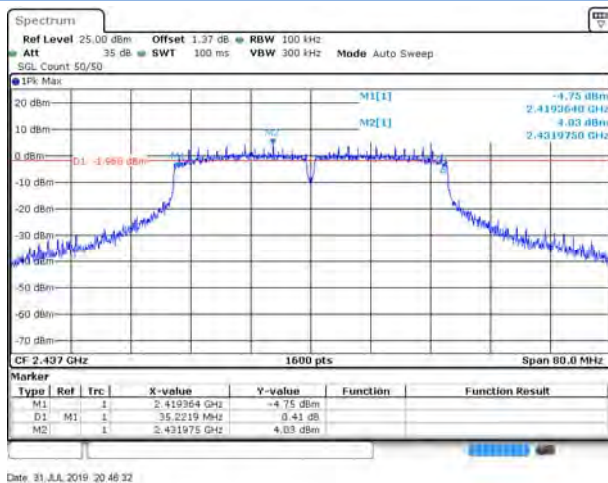
802.11n-20 MHz HIGH CHANNEL



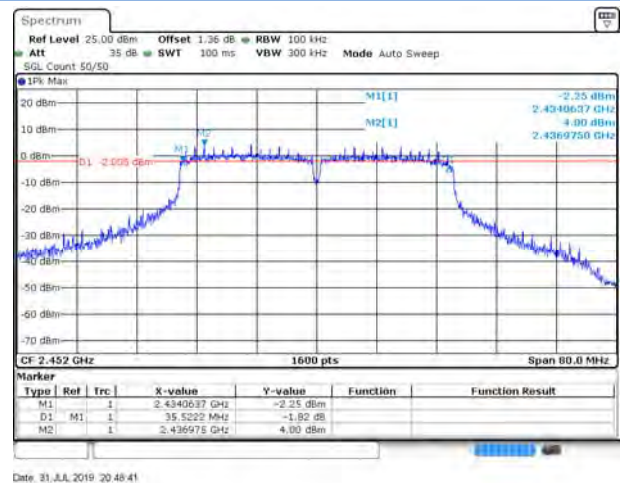
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

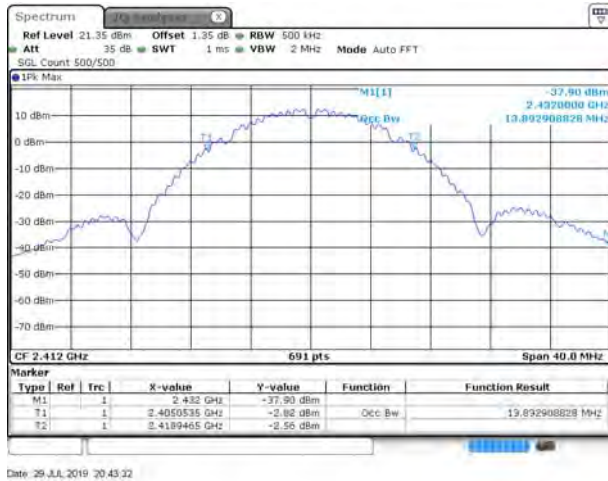


802.11n-40 MHz HIGH CHANNEL

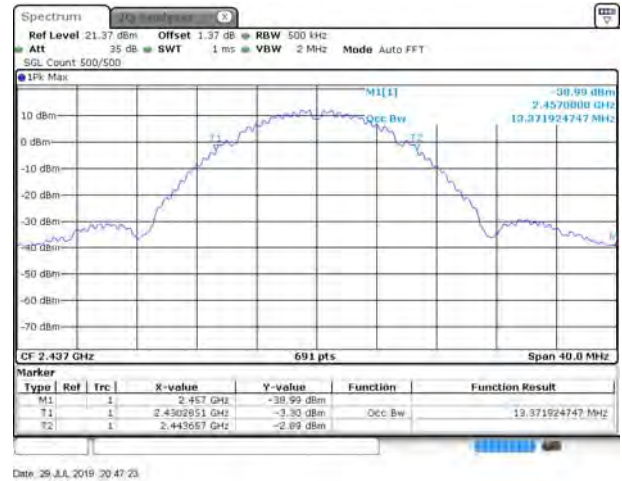


99% Bandwidth

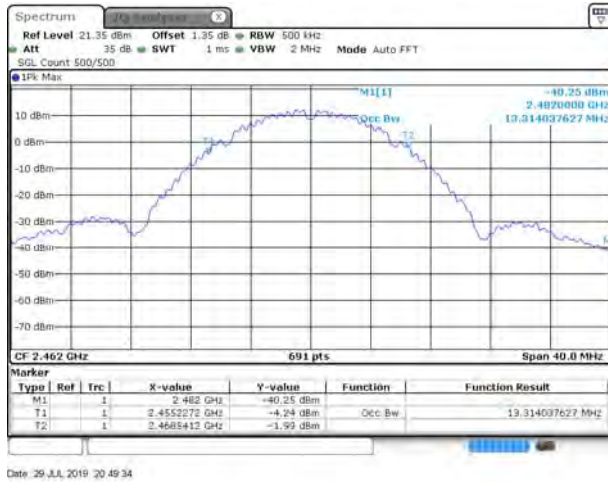
802.11b LOW CHANNEL



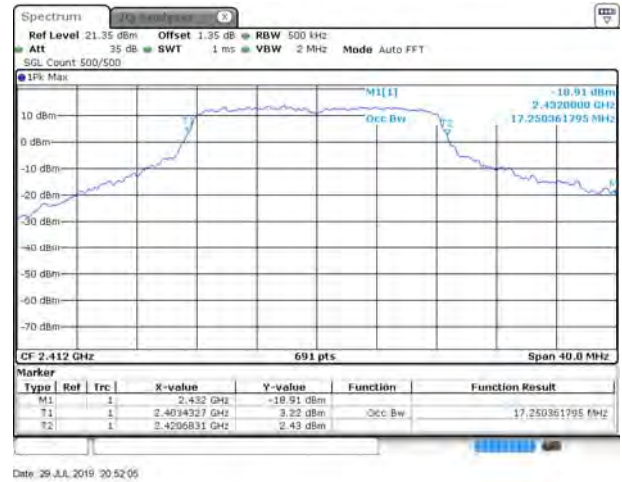
802.11b MIDDLE CHANNEL



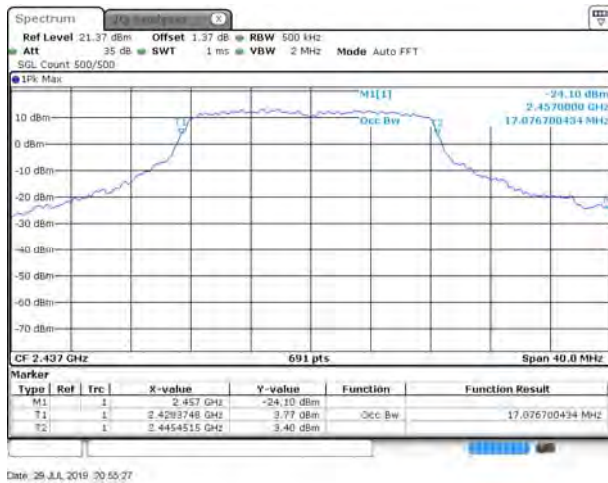
802.11b HIGH CHANNEL



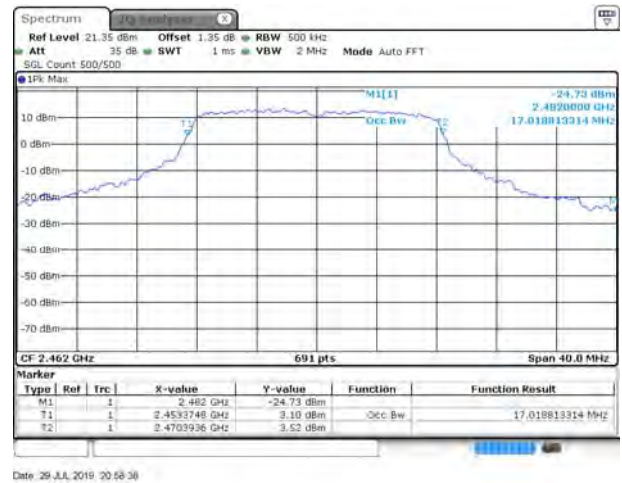
802.11g LOW CHANNEL



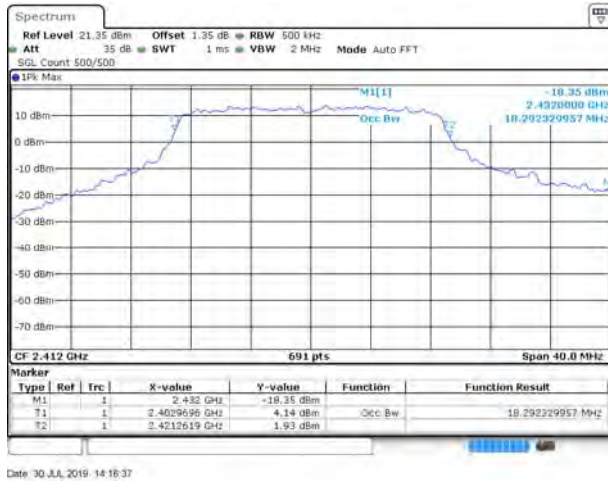
802.11g MIDDLE CHANNEL



802.11g HIGH CHANNEL



802.11n-20 MHz LOW CHANNEL



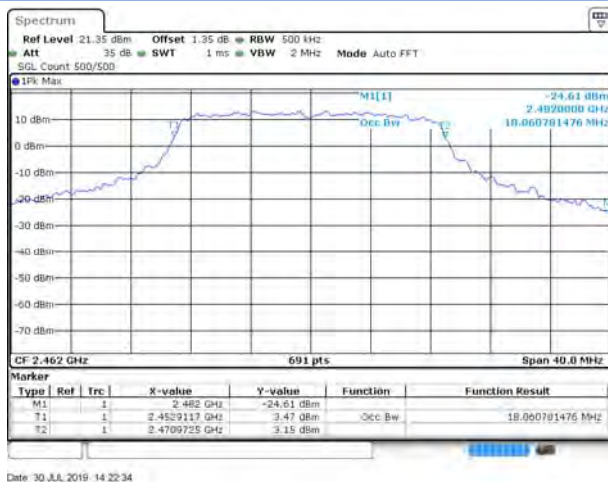
Date: 30 JUL 2019 14:18:37

802.11 n-20 MHz MIDDLE CHANNEL



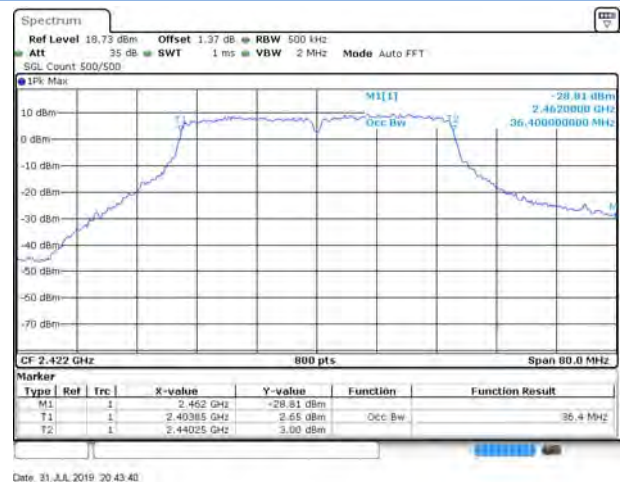
Date: 30 JUL 2019 14:19:42

802.11n-20 MHz HIGH CHANNEL



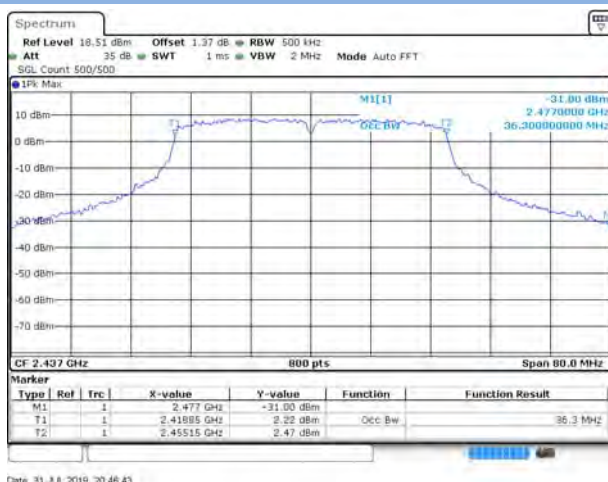
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802.11n-40 MHz LOW CHANNEL



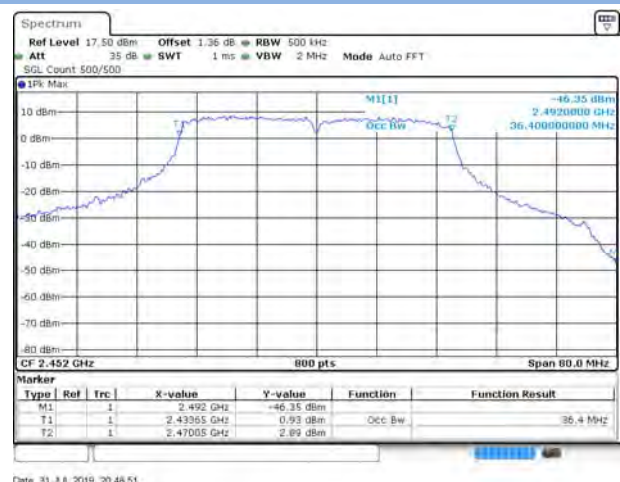
Date: 31 JUL 2019 20:43:40

802.11n-40 MHz MIDDLE CHANNEL



Date: 31 JUL 2019 20:46:43

802.11n-40 MHz HIGH CHANNEL



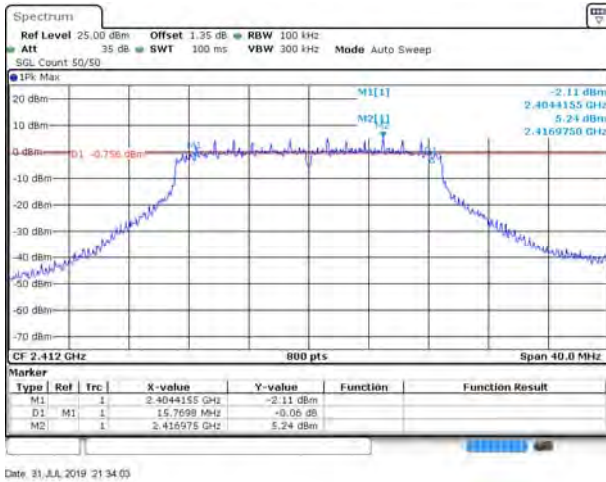
Date: 31 JUL 2019 20:48:51

MIMO

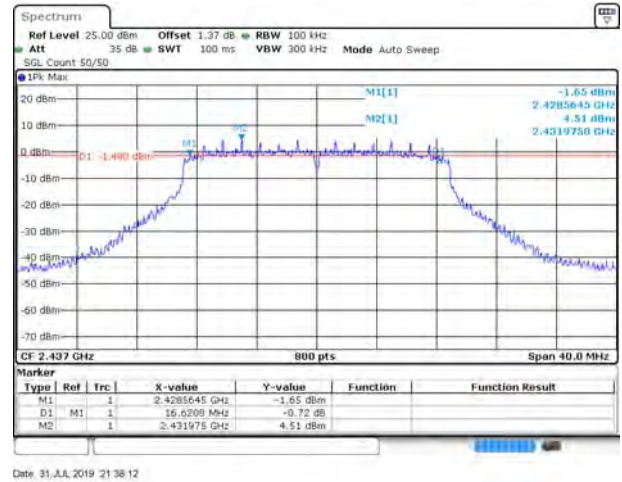
ANT 0

6 dB Bandwidth

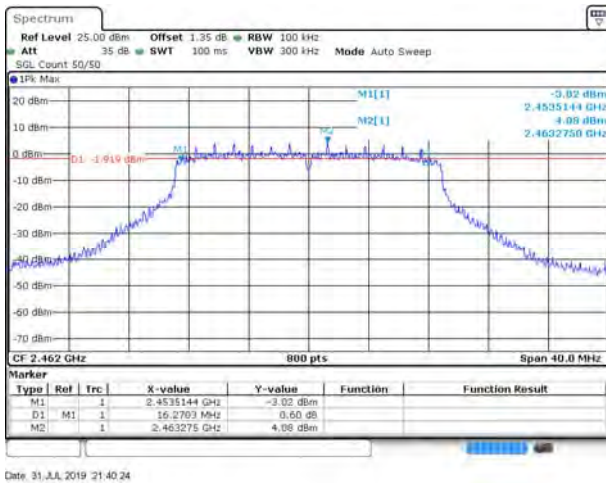
802.11n-20 MHz LOW CHANNEL



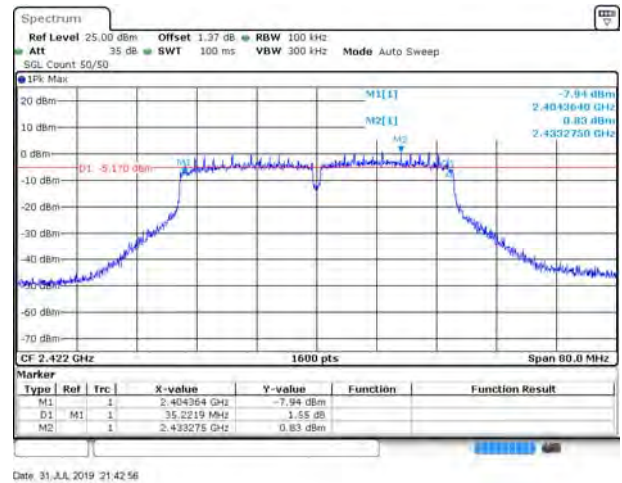
802.11 n-20 MHz MIDDLE CHANNEL



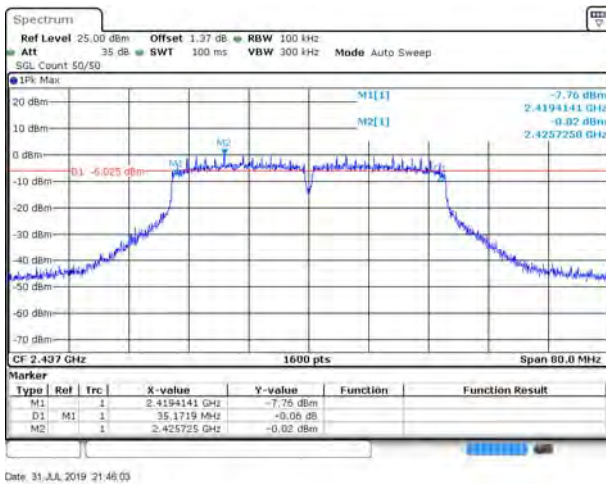
802.11n-20 MHz HIGH CHANNEL



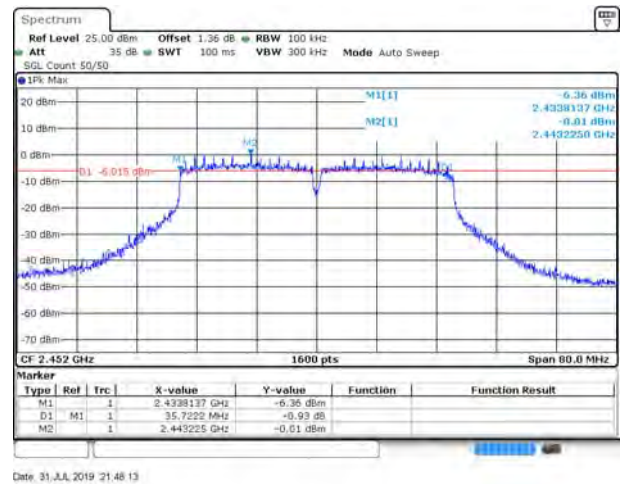
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



99% Bandwidth

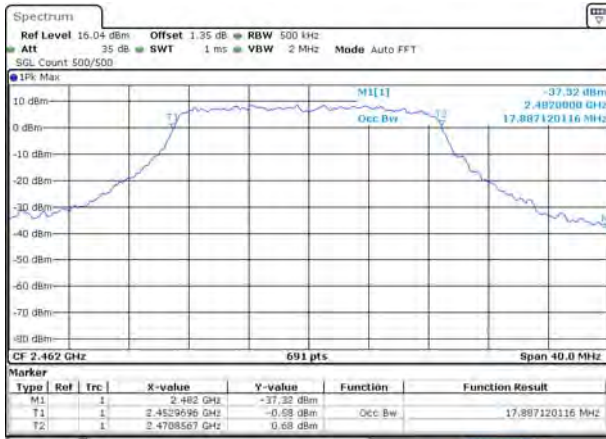
802.11n-20 MHz LOW CHANNEL



802.11 n-20 MHz MIDDLE CHANNEL



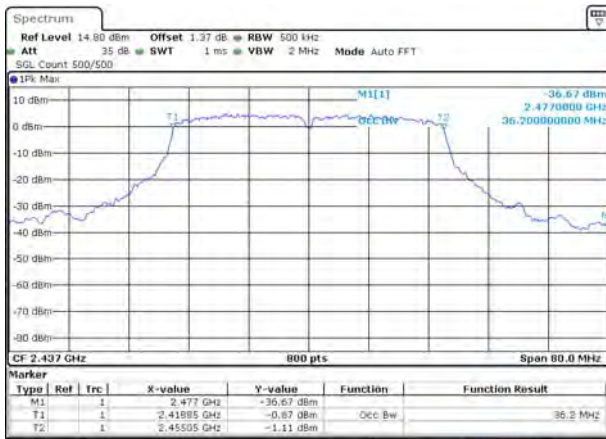
802.11n-20 MHz HIGH CHANNEL



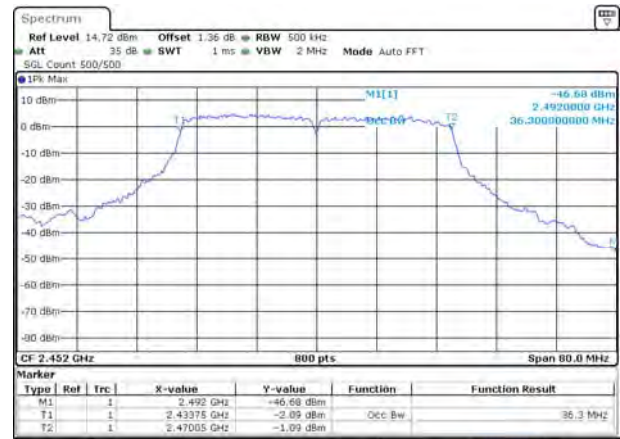
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL

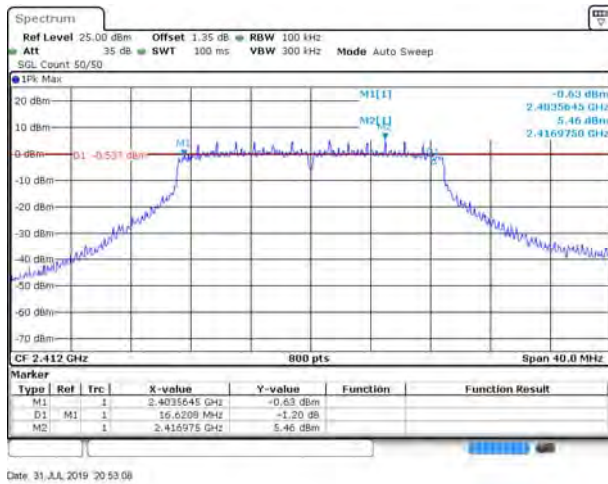


MIMO

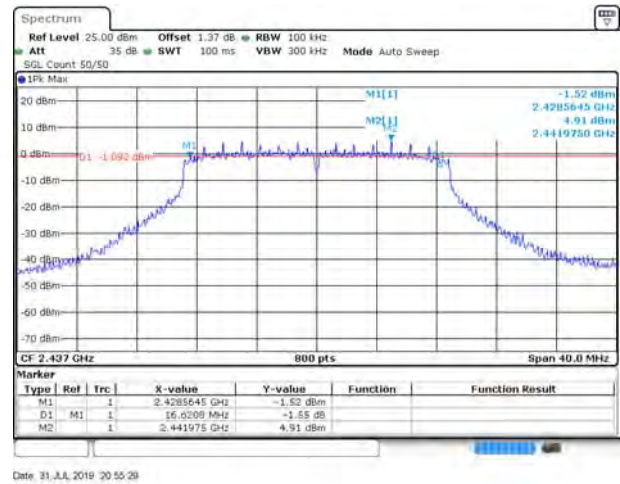
ANT 1

6 dB Bandwidth

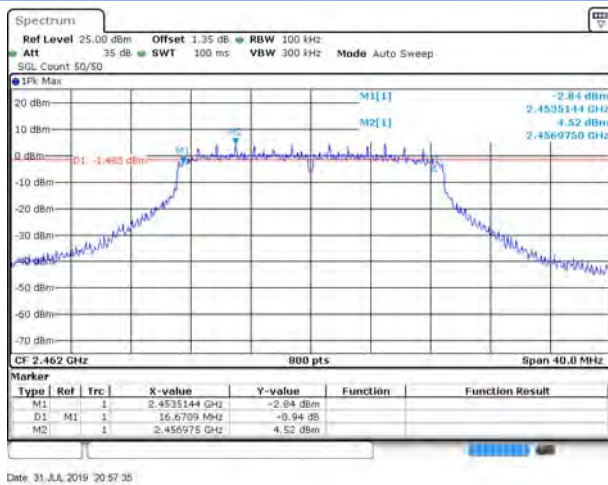
802.11n-20 MHz LOW CHANNEL



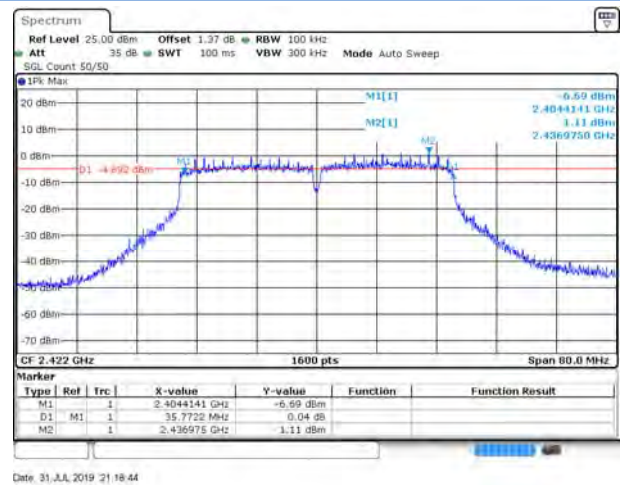
802.11 n-20 MHz MIDDLE CHANNEL



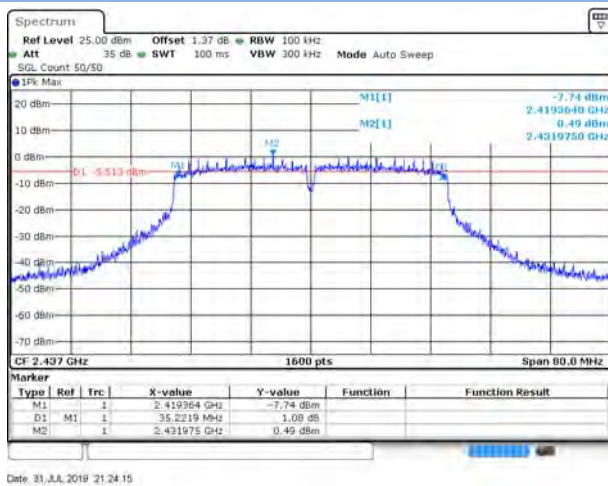
802.11n-20 MHz HIGH CHANNEL



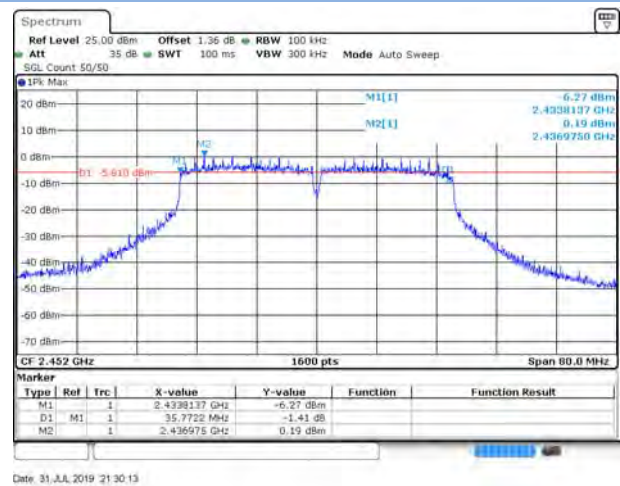
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



99% Bandwidth

802.11n-20 MHz LOW CHANNEL



Date: 31.Jul, 2019 20:53:17

802.11 n-20 MHz MIDDLE CHANNEL



Date: 31.Jul, 2019 20:55:36

802.11n-20 MHz HIGH CHANNEL



Date: 31.Jul, 2019 20:57:44

802.11n-40 MHz LOW CHANNEL



Date: 31.Jul, 2019 21:18:55

802.11n-40 MHz MIDDLE CHANNEL



Date: 31.Jul, 2019 21:24:26

802.11n-40 MHz HIGH CHANNEL



Date: 31.Jul, 2019 21:30:24

A.3 Conducted Spurious Emissions

Test Data

ANT 0

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.70	11.70	-8.30	Pass
Middle	-40.75	11.40	-8.60	Pass
High	-41.26	11.18	-8.82	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.98	8.73	-11.27	Pass
Middle	-44.26	8.52	-11.48	Pass
High	-44.51	8.42	-11.58	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.70	9.65	-10.35	Pass
Middle	-44.72	8.99	-11.01	Pass
High	-44.61	8.88	-11.12	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.10	4.71	-15.29	Pass
Middle	-43.65	3.55	-16.45	Pass
High	-44.73	3.85	-16.15	Pass

ANT 1

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.86	12.09	-7.91	Pass
Middle	-40.62	11.68	-8.32	Pass
High	-40.01	11.61	-8.39	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-43.87	9.15	-10.85	Pass
Middle	-43.82	8.82	-11.18	Pass
High	-43.90	8.97	-11.03	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.80	9.10	-10.90	Pass
Middle	-44.92	9.05	-10.95	Pass
High	-44.65	9.11	-10.89	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-34.56	4.94	-15.06	Pass
Middle	-34.25	4.03	-15.97	Pass
High	-34.90	4.09	-15.91	Pass

MIMO
ANT 0

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.91	5.42	-14.58	Pass
Middle	-44.65	4.61	-15.39	Pass
High	-43.44	4.11	-15.89	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.90	0.95	-19.05	Pass
Middle	-44.34	0.15	-19.85	Pass
High	-45.17	0.17	-19.83	Pass

ANT 1

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.90	5.62	-14.38	Pass
Middle	-45.13	4.92	-15.08	Pass
High	-43.96	4.80	-15.20	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-44.62	1.11	-18.89	Pass
Middle	-44.66	0.55	-19.45	Pass
High	-44.38	0.21	-19.79	Pass

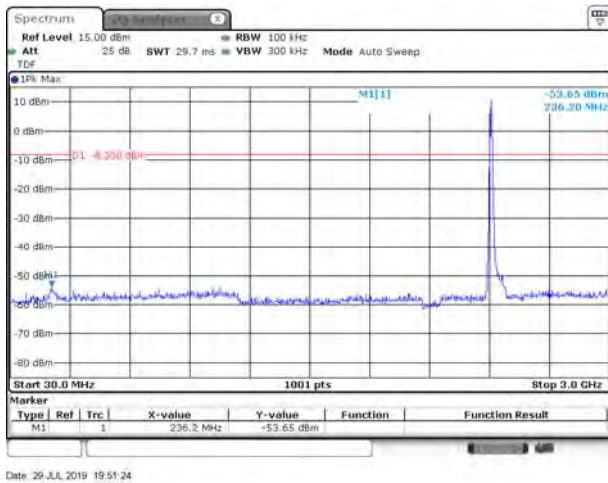
Test Plots

ANT 0

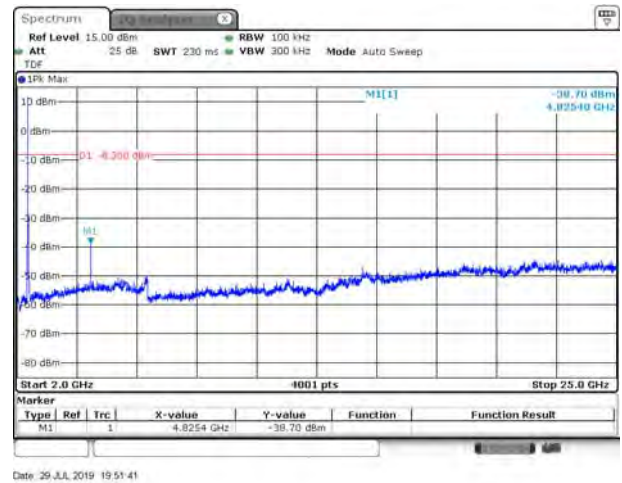
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



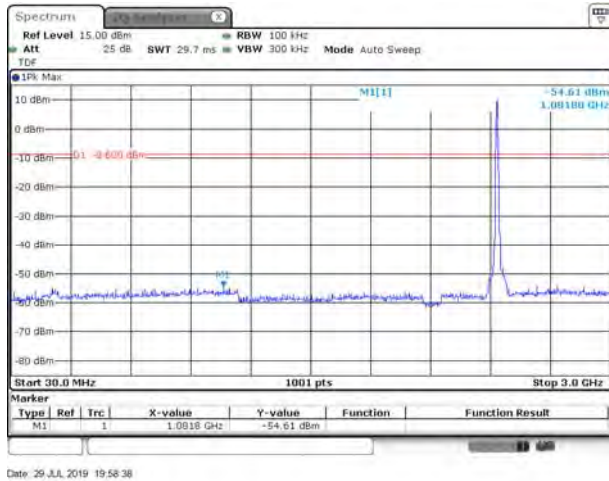
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



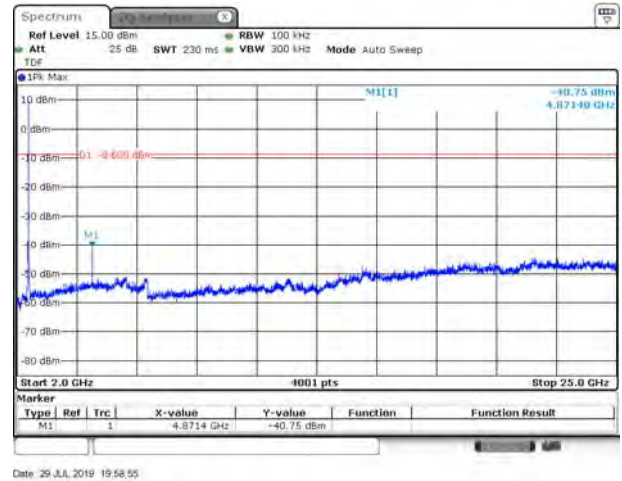
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



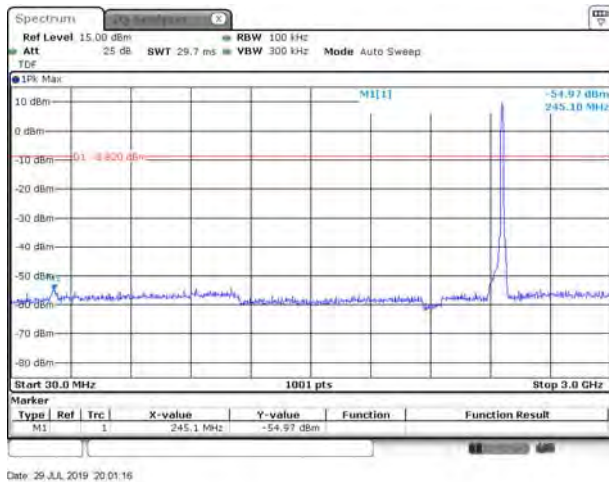
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



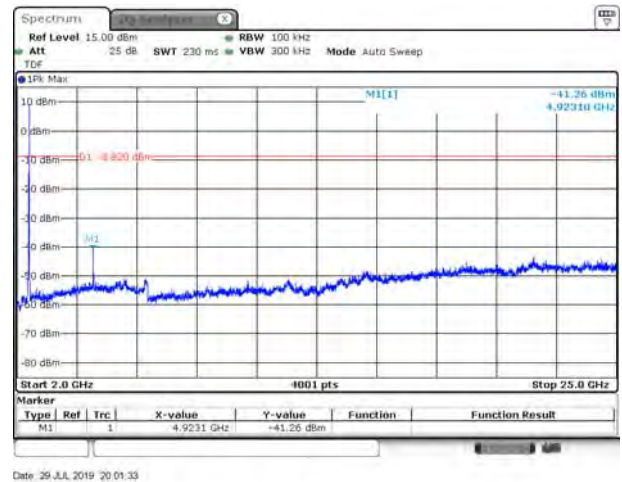
802.11b HIGH CHANNEL CARRIER LEVEL



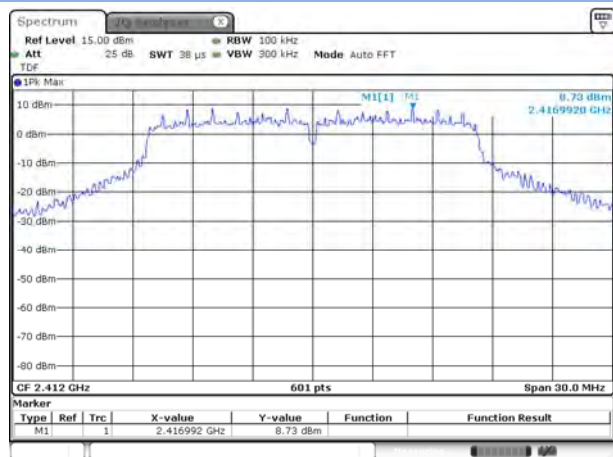
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

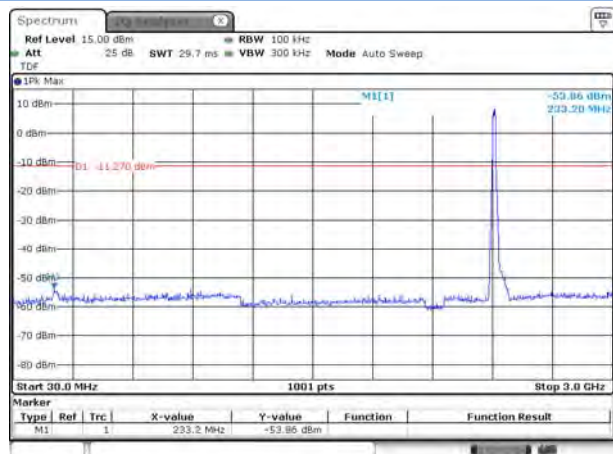


802.11g LOW CHANNEL CARRIER LEVEL



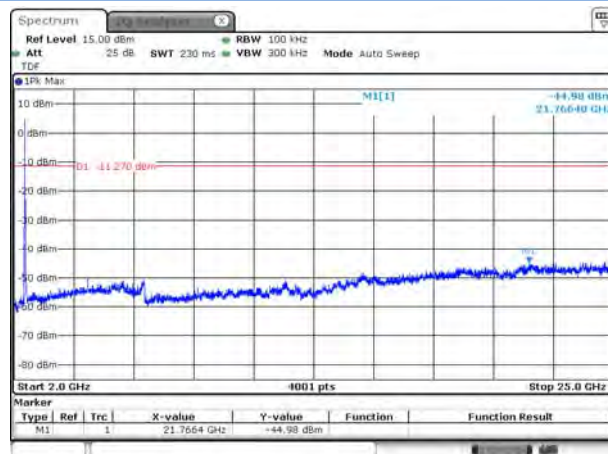
Date: 29 JUL 2019 20:03:46

802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



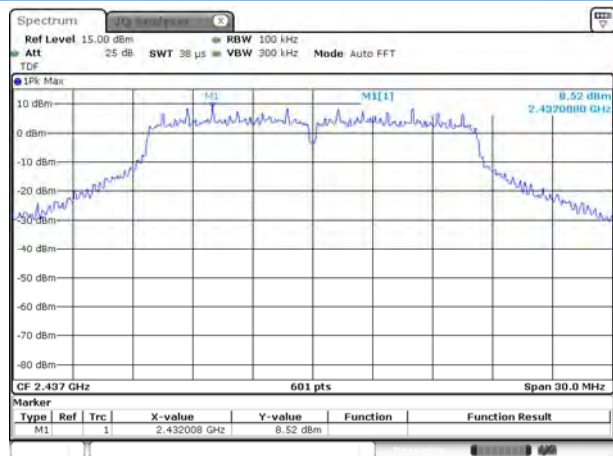
Date: 29 JUL 2019 20:04:23

802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

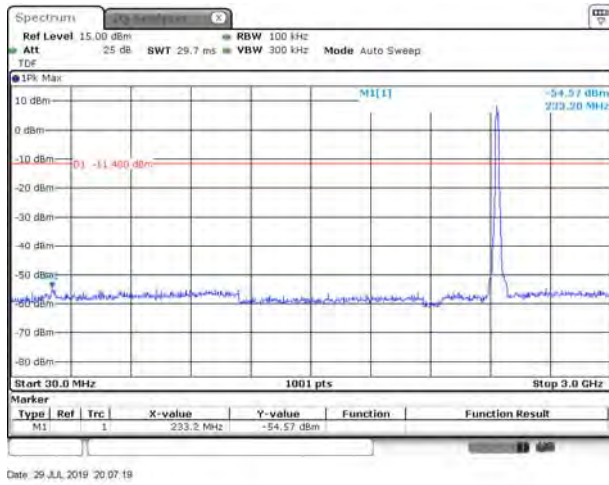
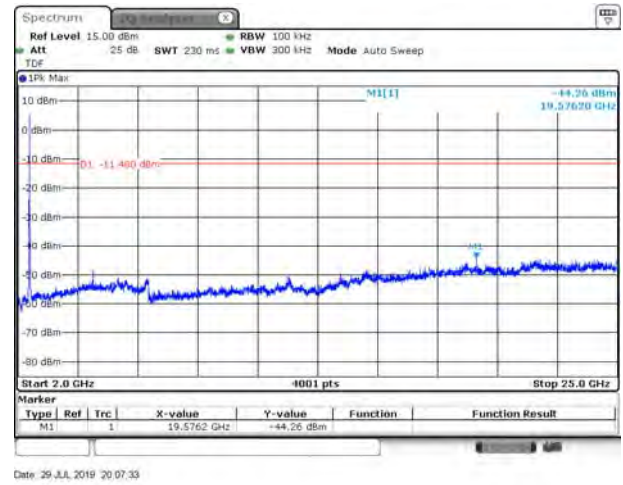


Date: 29 JUL 2019 20:04:40

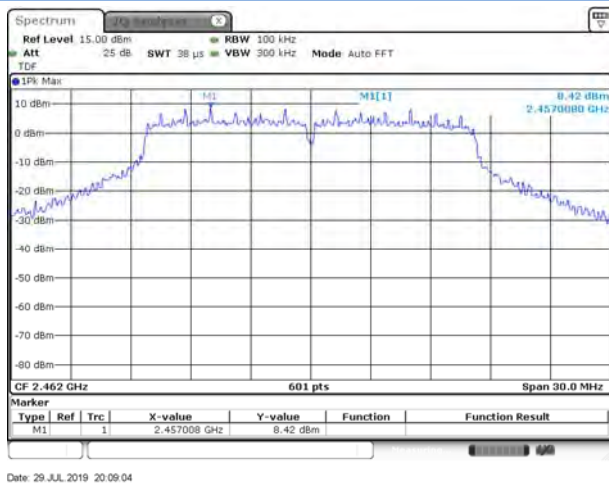
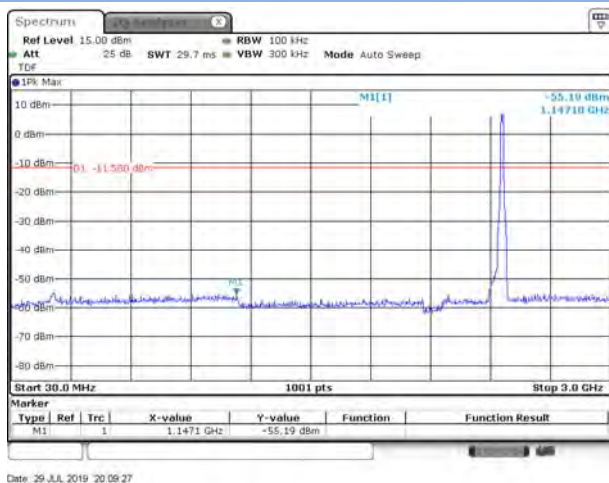
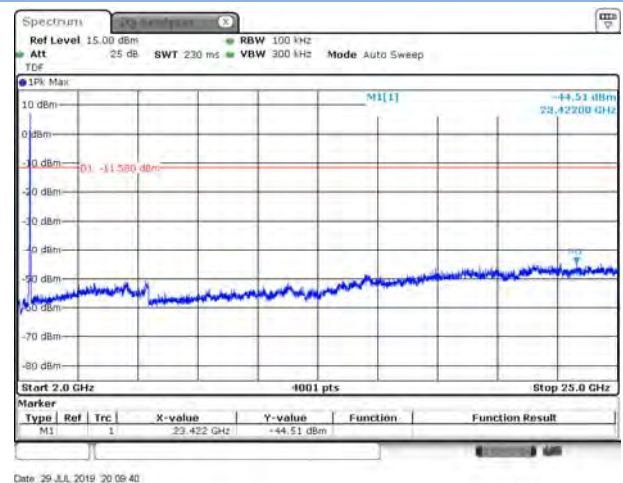
802.11g MIDDLE CHANNEL CARRIER LEVEL



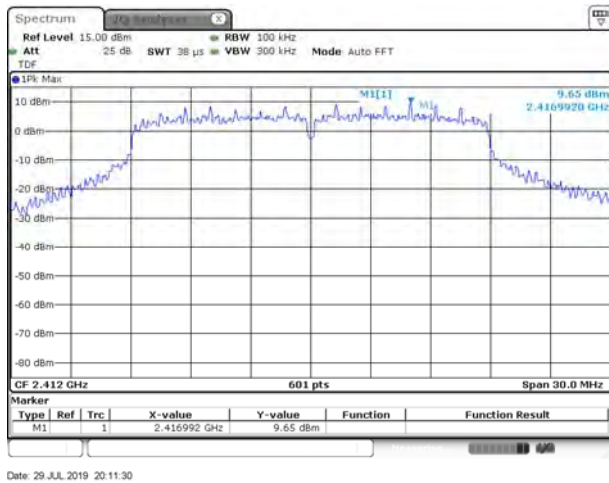
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802.11g MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

802.11g MIDDLE CHANNEL, SPURIOUS
2 GHz ~ 25 GHz


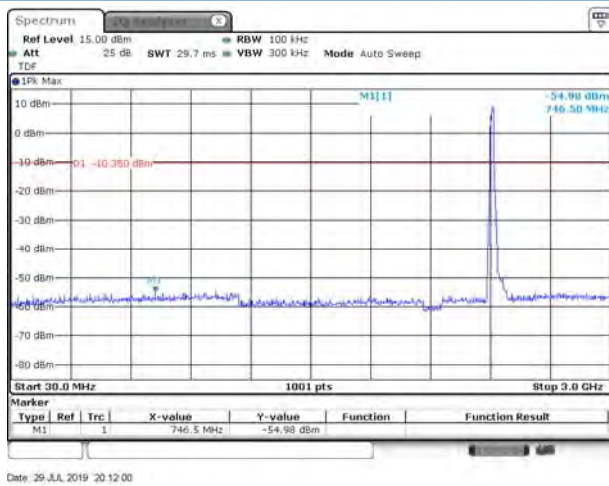
802.11g HIGH CHANNEL CARRIER LEVEL


802.11g HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

802.11g HIGH CHANNEL, SPURIOUS
2 GHz ~ 25 GHz


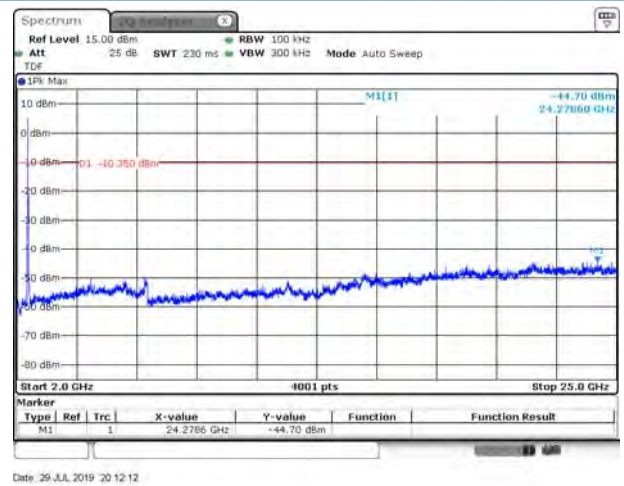
802.11n-20 LOW CHANNEL CARRIER LEVEL



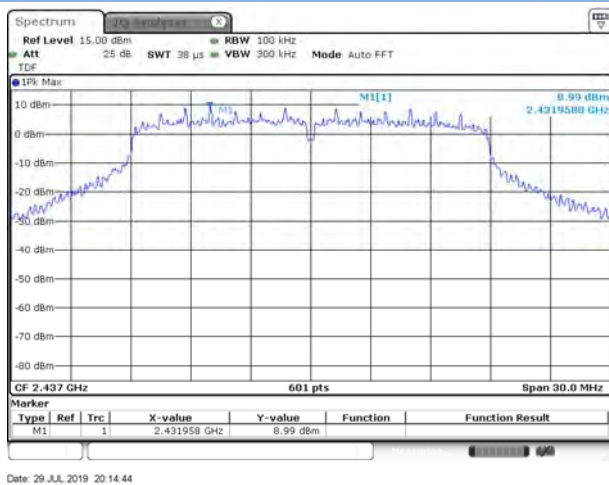
802.11n-20 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

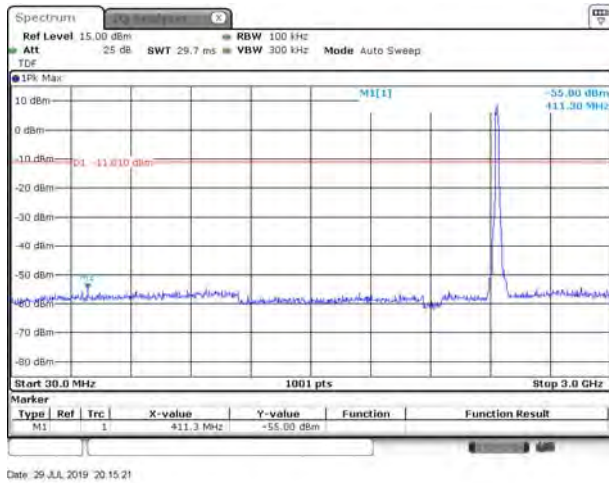
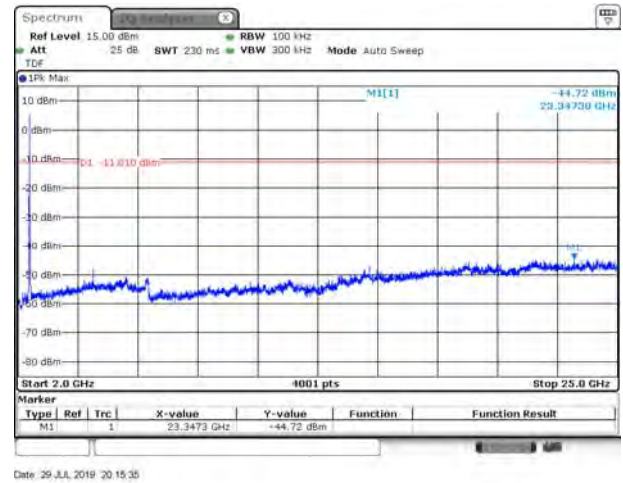


802.11n-20 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

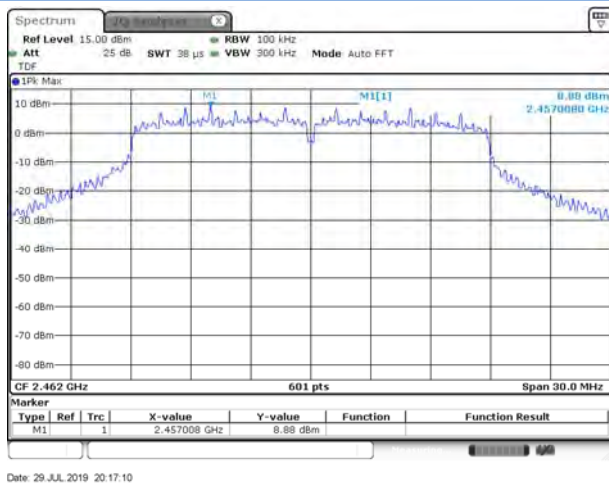
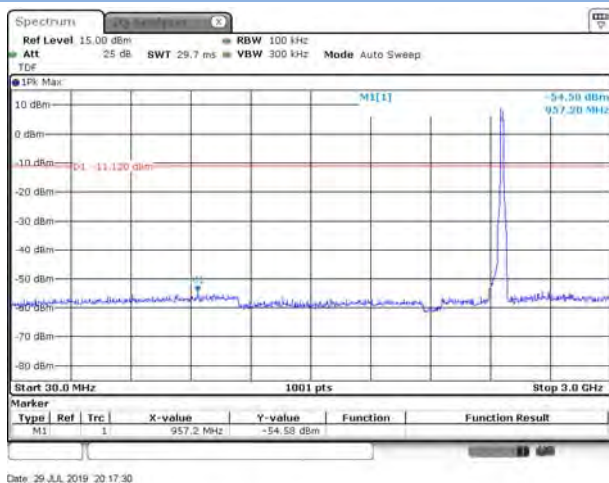
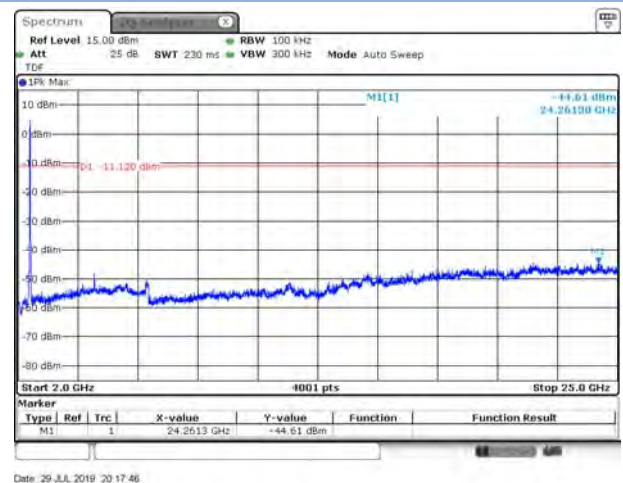


802.11n-20 MIDDLE CHANNEL CARRIER LEVEL

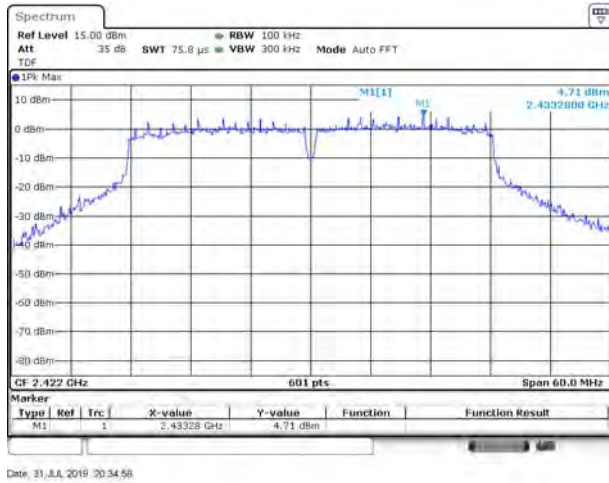


802.11n-20 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

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


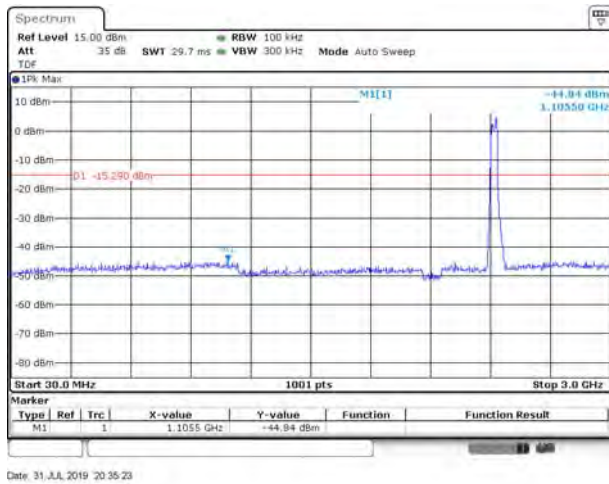
802.11n-20 HIGH CHANNEL CARRIER LEVEL


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

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


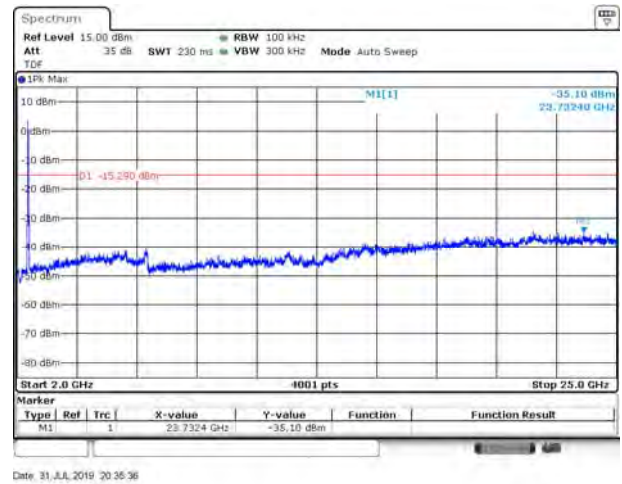
802.11n-40 LOW CHANNEL CARRIER LEVEL



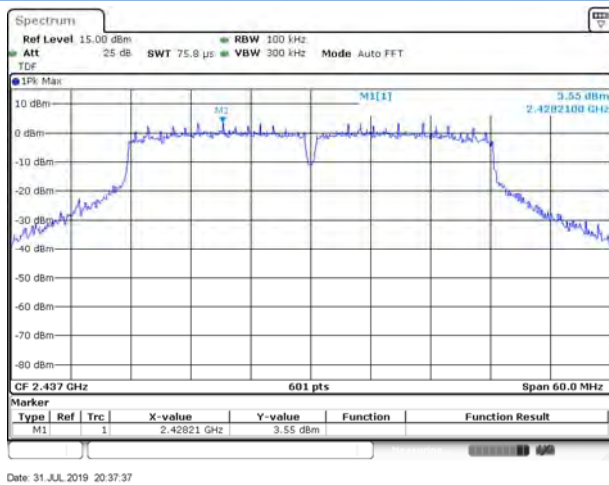
802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

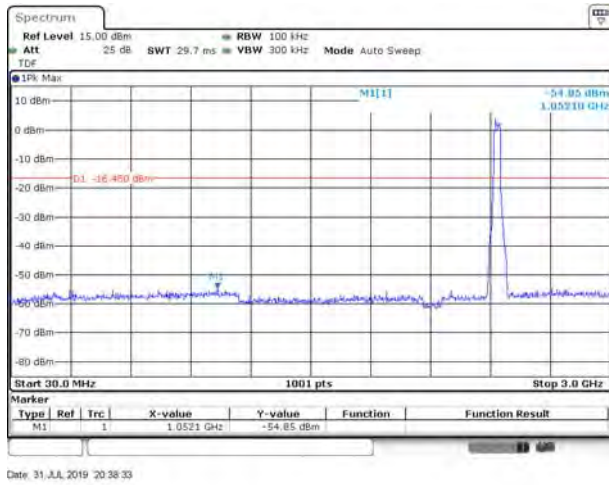
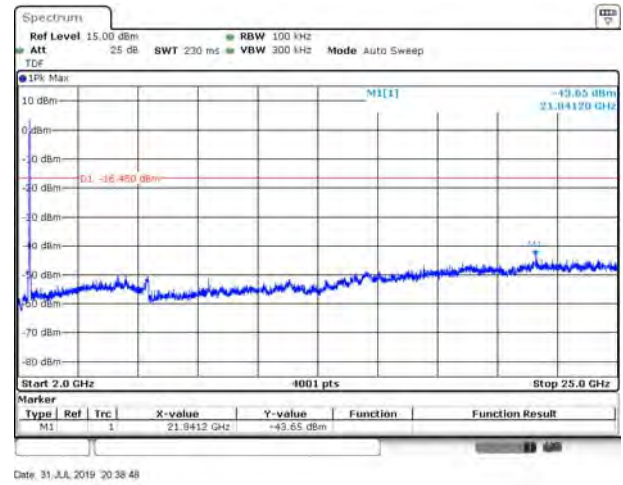


802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

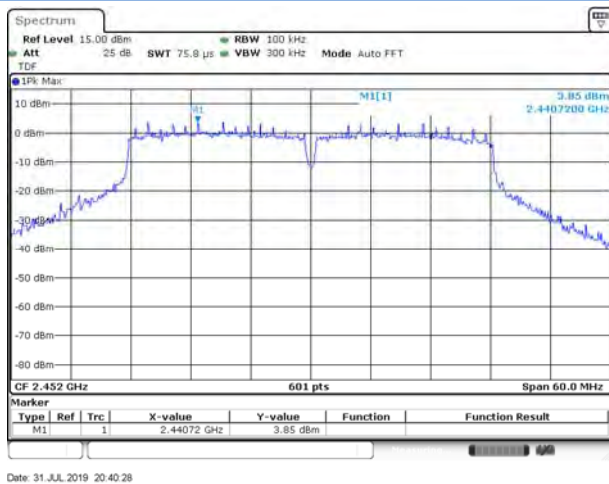
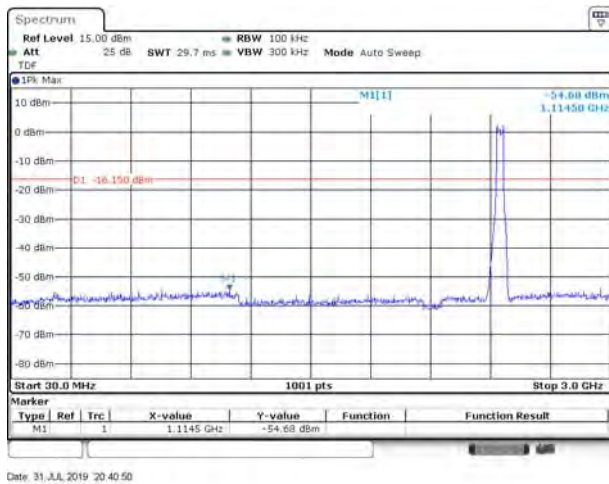
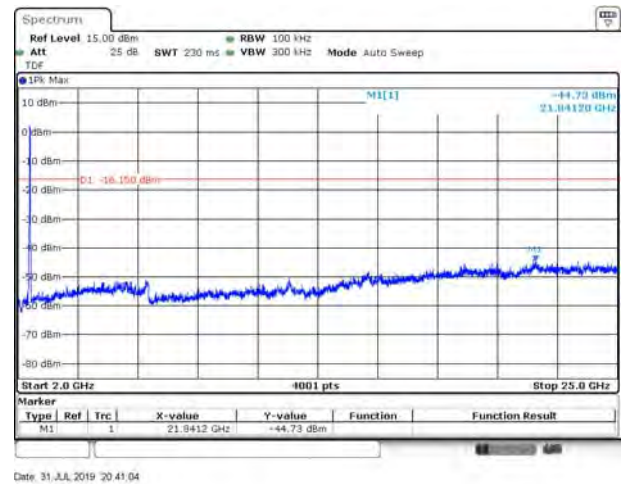


802.11n-40 MIDDLE CHANNEL CARRIER LEVEL



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

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


802.11n-40 HIGH CHANNEL CARRIER LEVEL

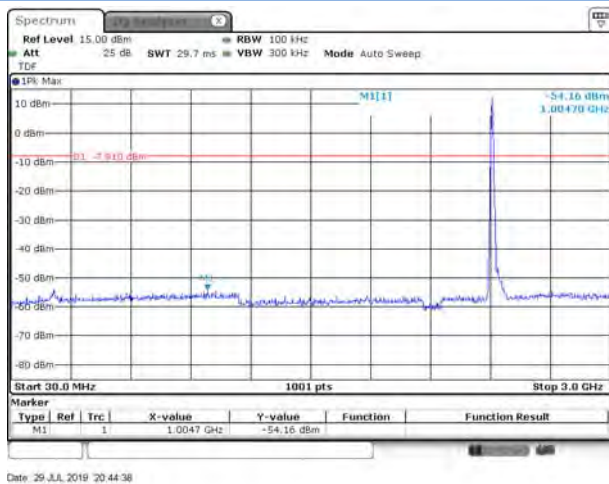

802.11n-40 HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

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


ANT 1

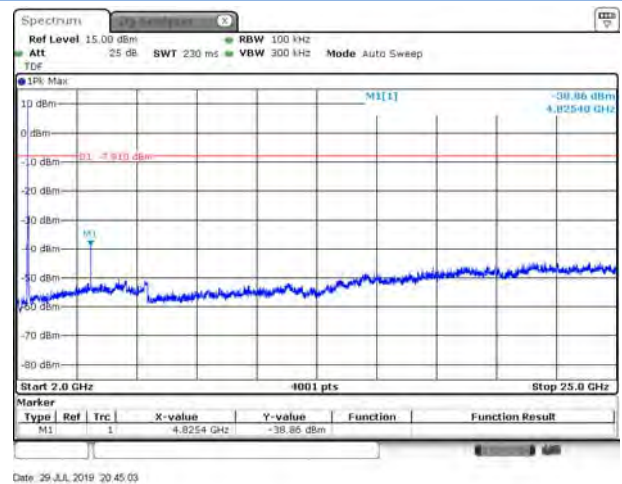
802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



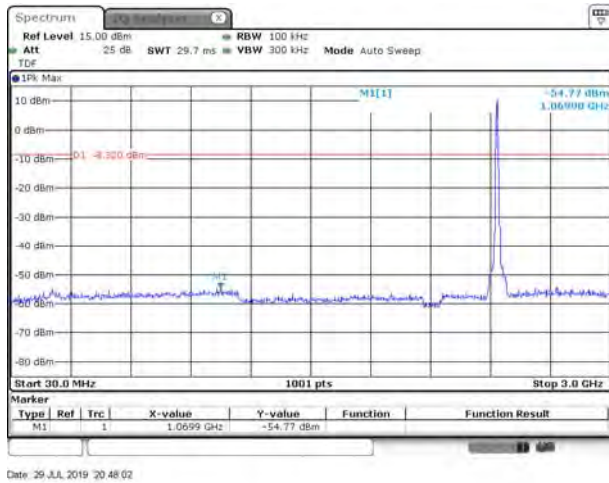
802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



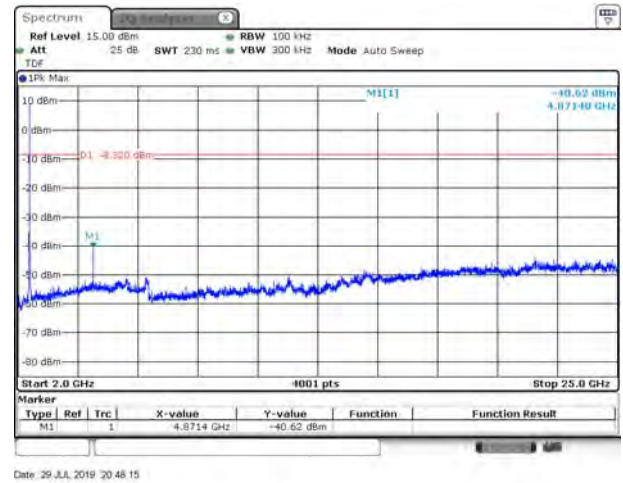
802.11b MIDDLE CHANNEL CARRIER LEVEL



802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



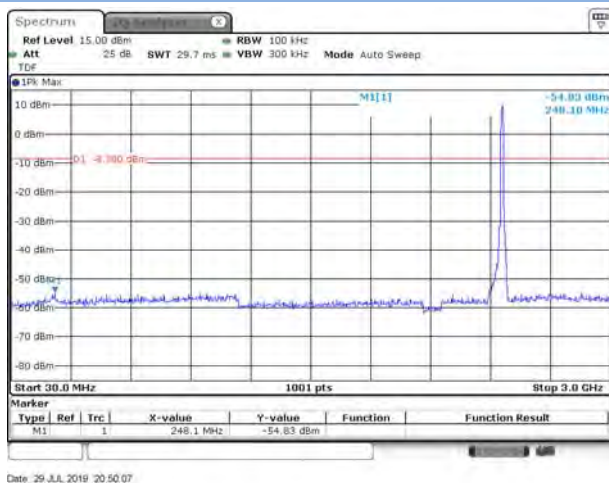
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



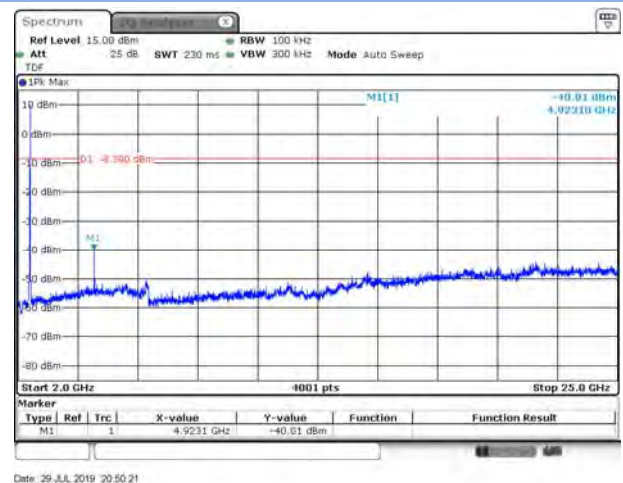
802.11b HIGH CHANNEL CARRIER LEVEL



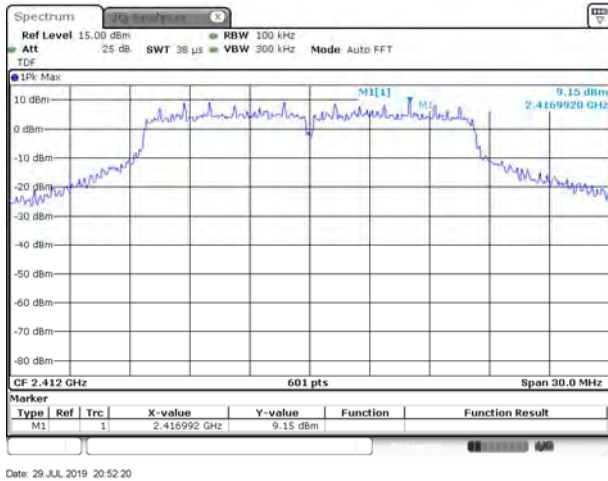
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



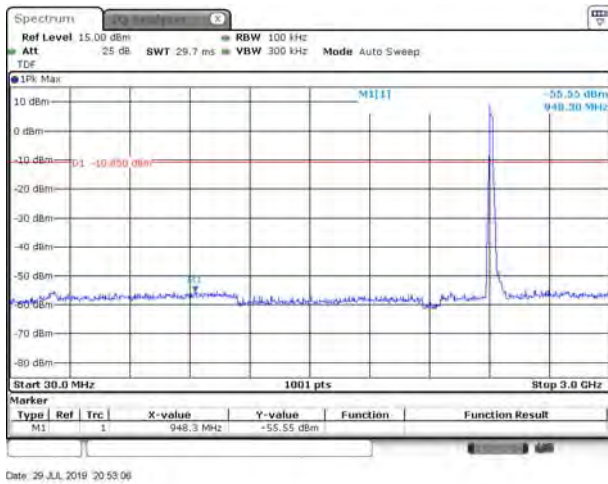
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



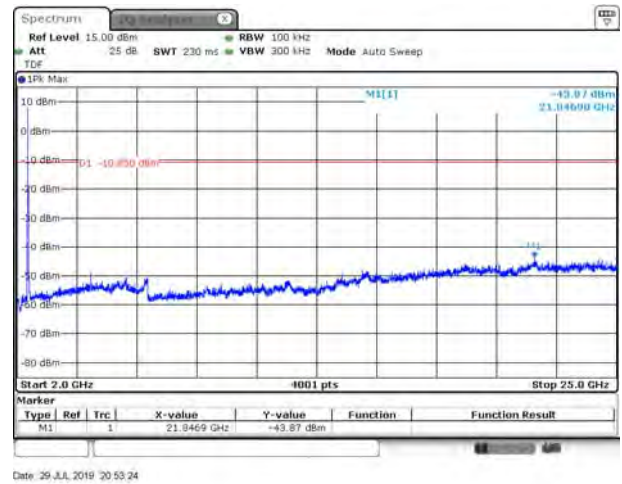
802.11g LOW CHANNEL CARRIER LEVEL



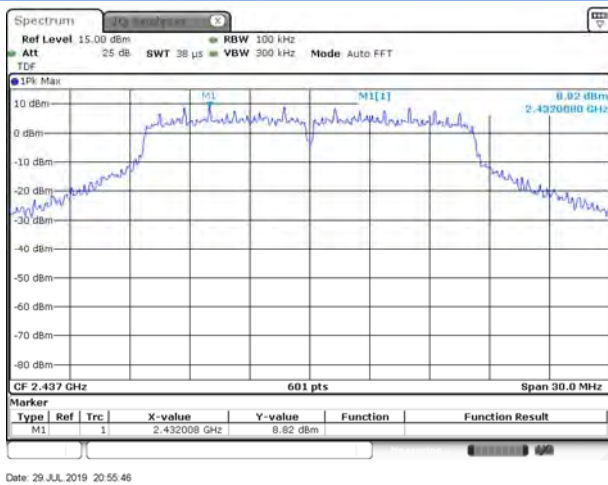
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



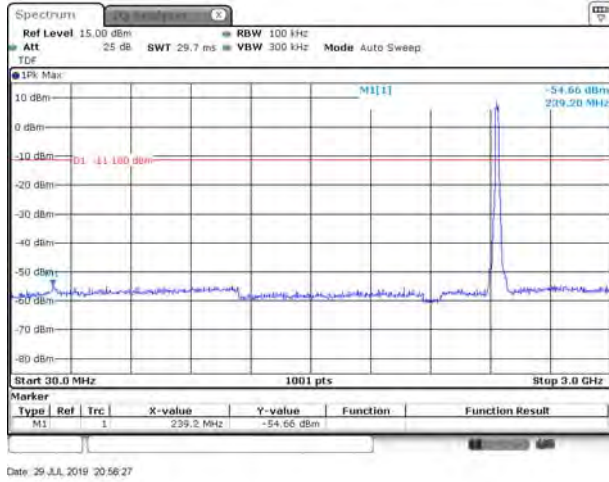
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



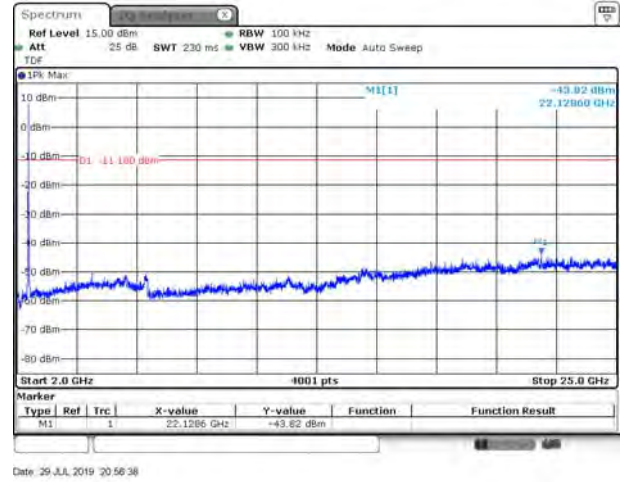
802.11g MIDDLE CHANNEL CARRIER LEVEL



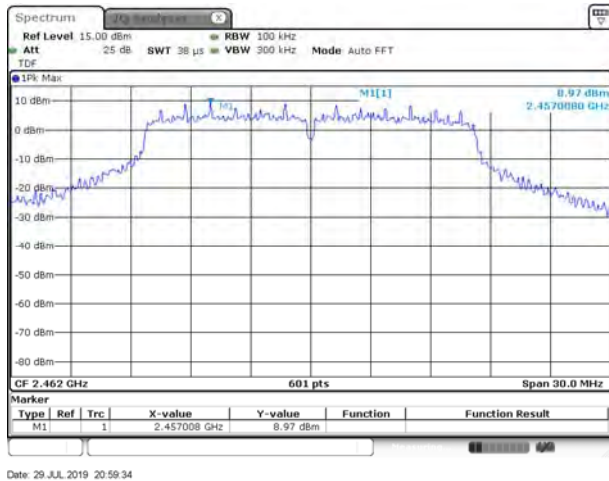
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



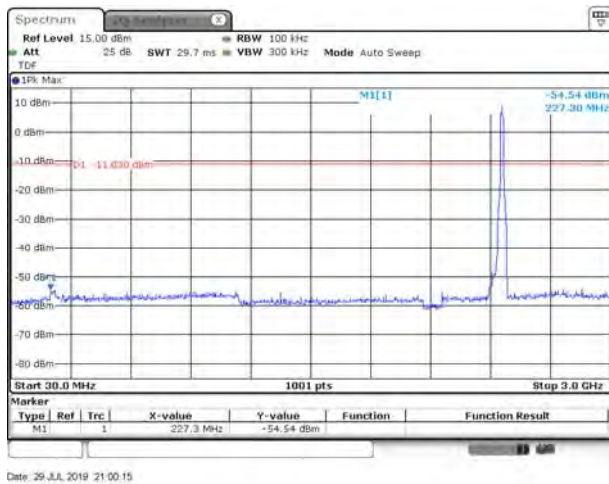
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



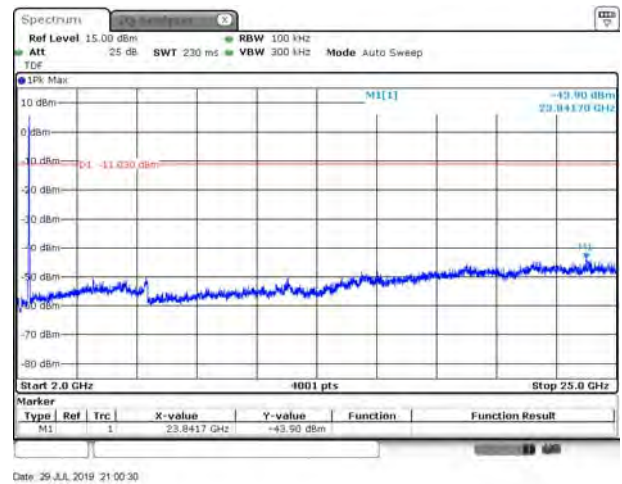
802.11g HIGH CHANNEL CARRIER LEVEL



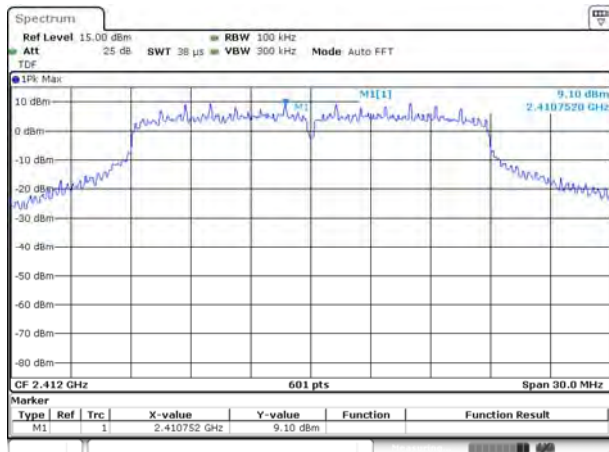
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

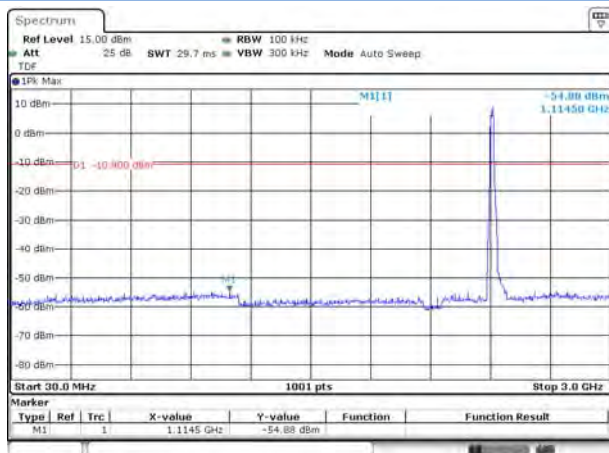


802.11n-20 LOW CHANNEL CARRIER LEVEL



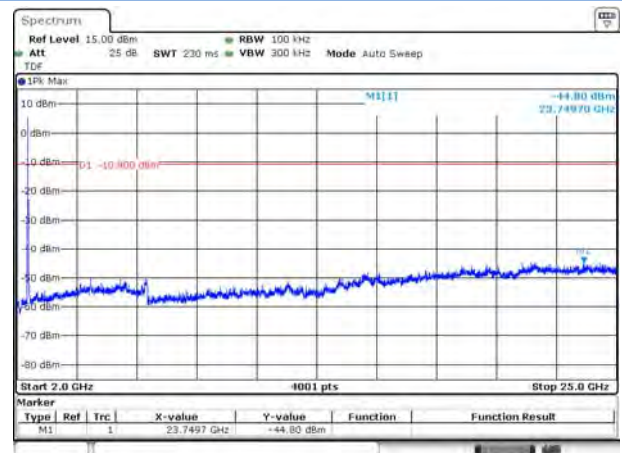
Date: 30 JUL 2019 14:17:06

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



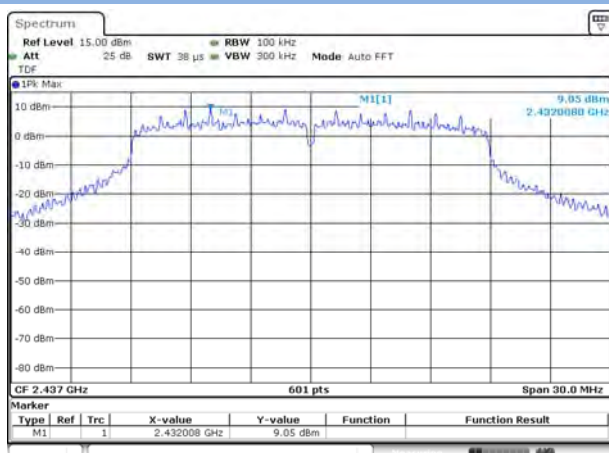
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802.11n-20 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

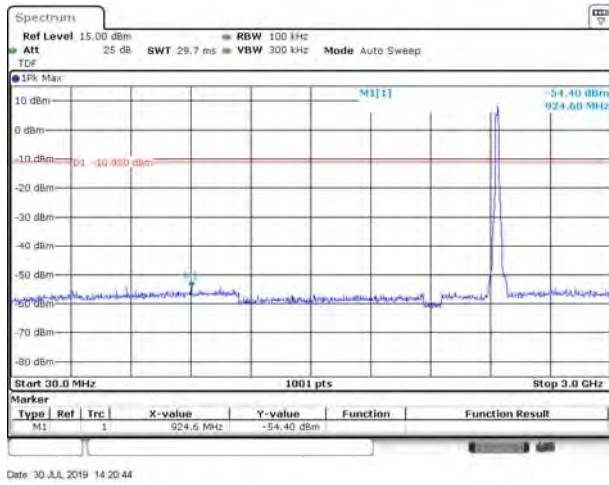
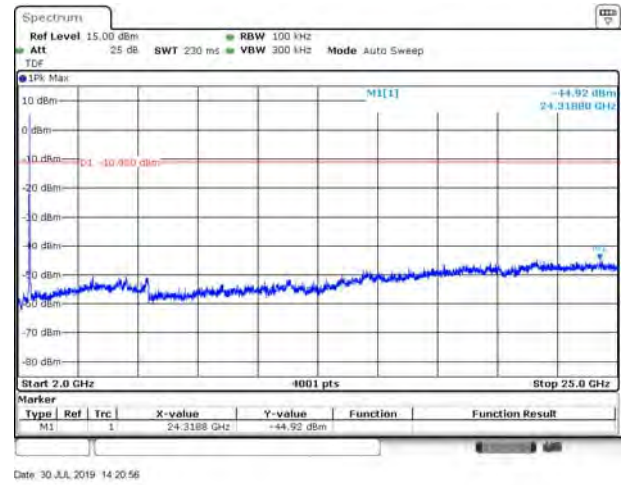


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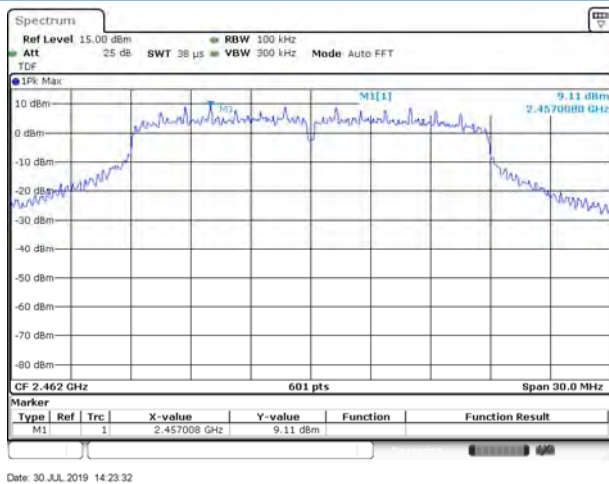
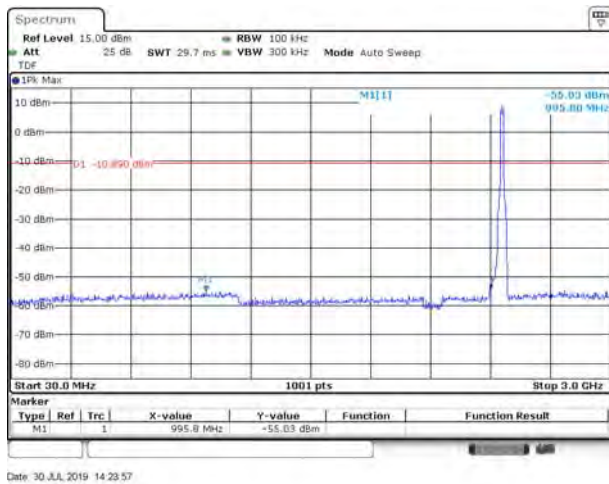
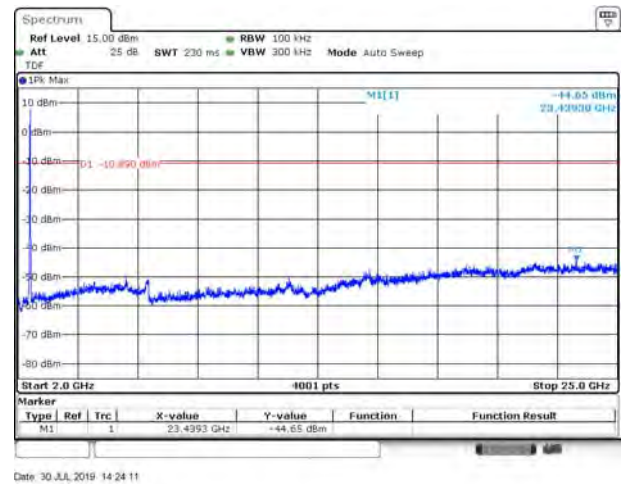
802.11n-20 MIDDLE CHANNEL CARRIER LEVEL



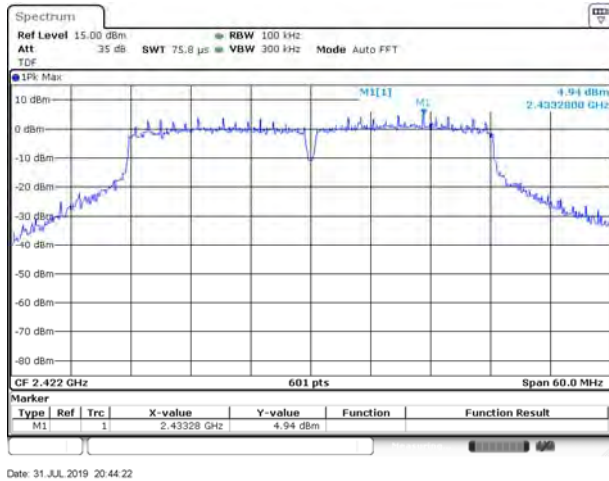
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802.11n-20 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

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


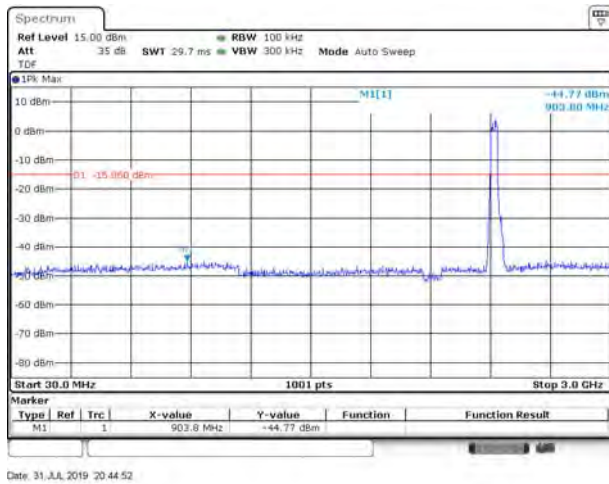
802.11n-20 HIGH CHANNEL CARRIER LEVEL


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

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


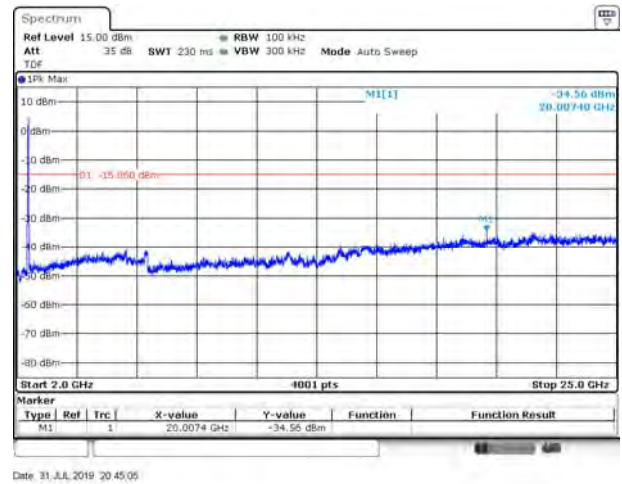
802.11n-40 LOW CHANNEL CARRIER LEVEL



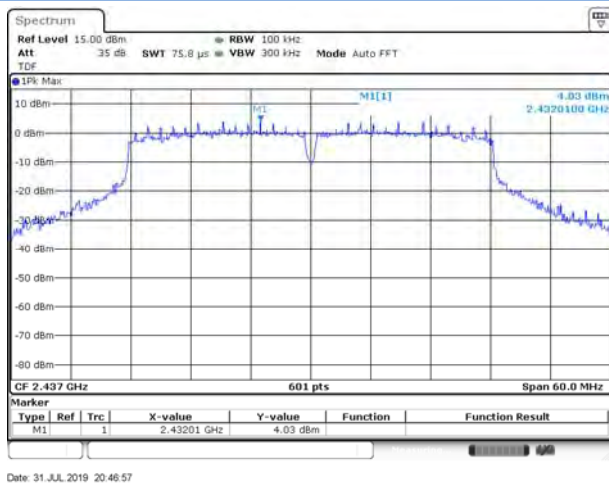
802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

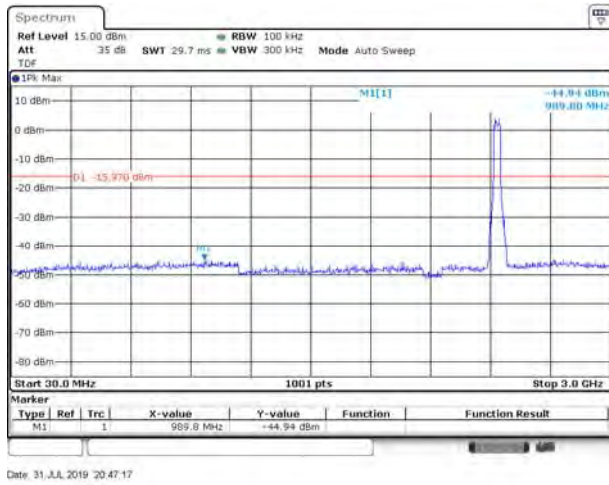
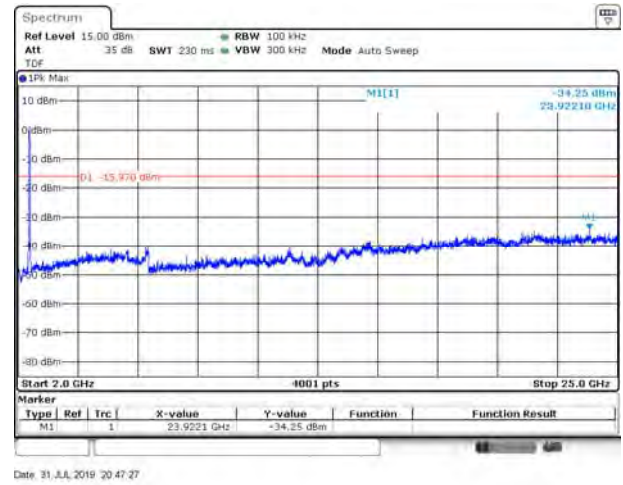


802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

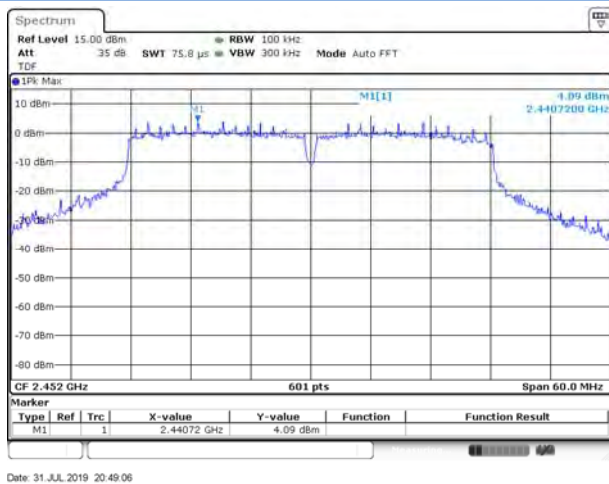
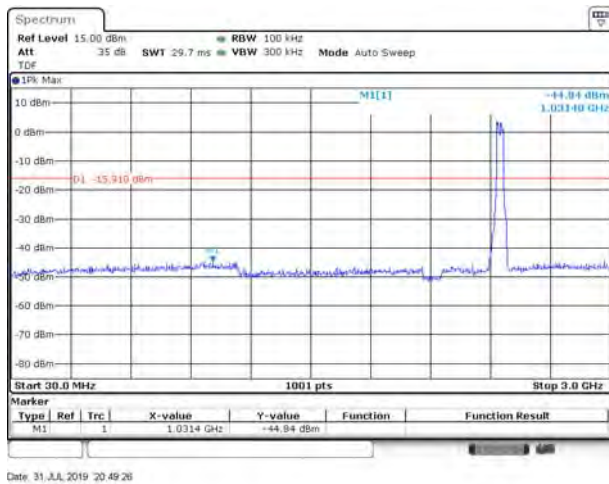
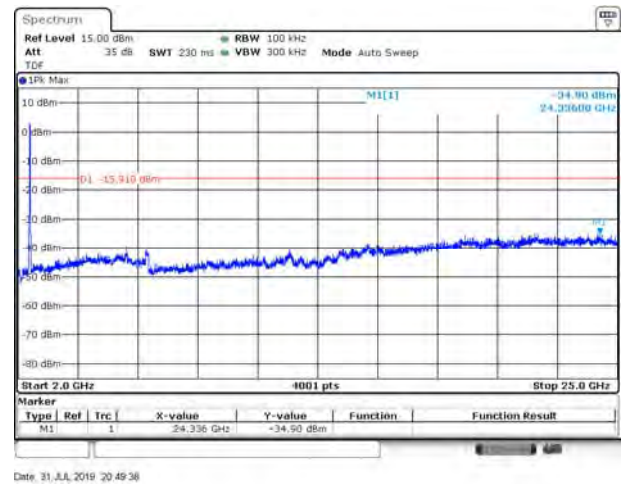


802.11n-40 MIDDLE CHANNEL CARRIER LEVEL



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

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


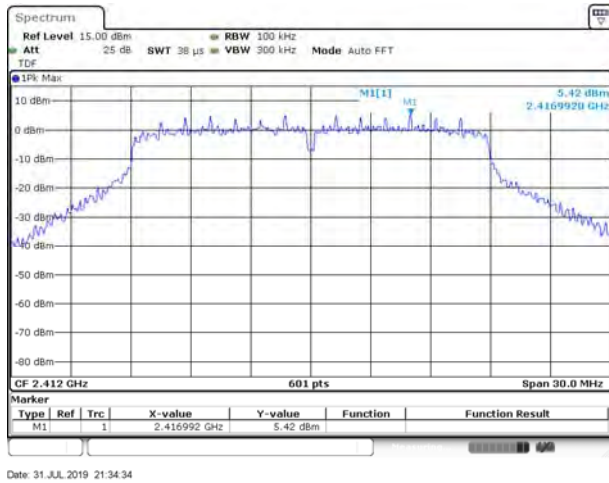
802.11n-40 HIGH CHANNEL CARRIER LEVEL


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

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


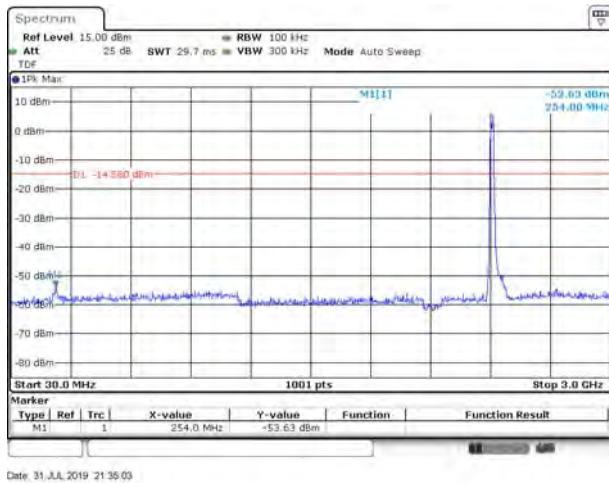
MIMO

ANT 0

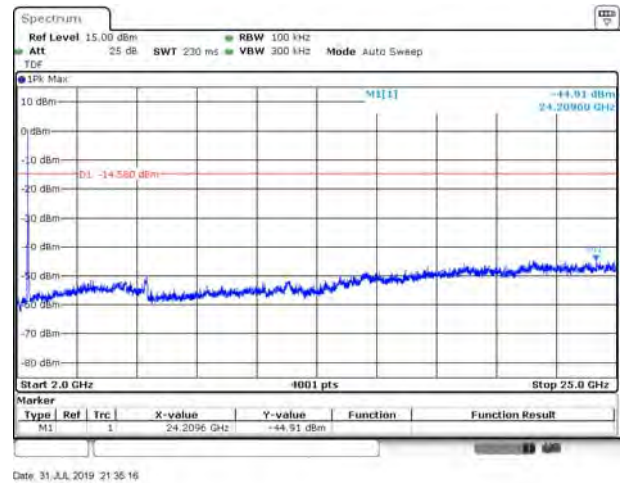
802.11n-20 LOW CHANNEL CARRIER LEVEL



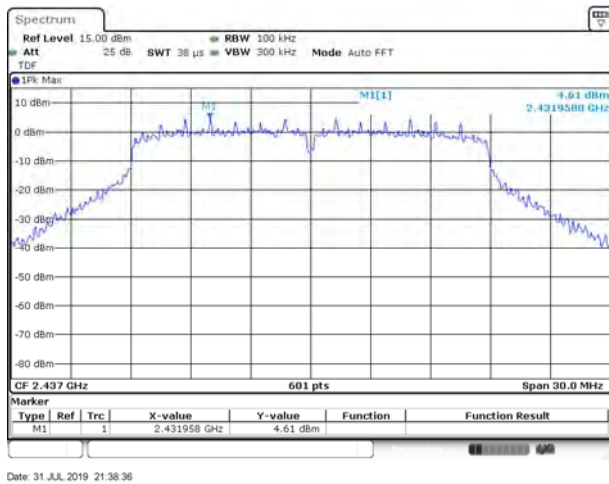
802.11n-20 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



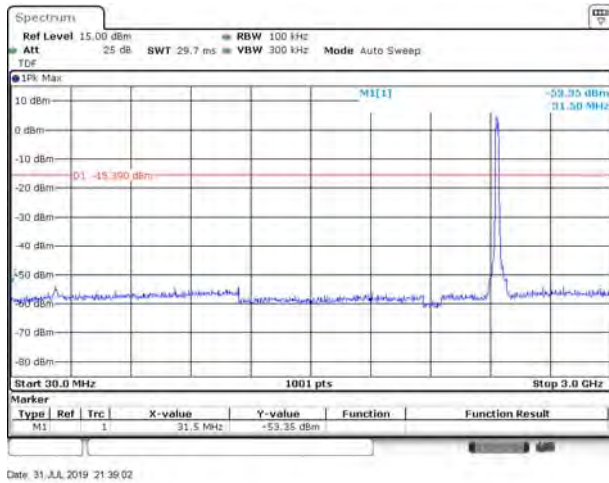
802.11n-20 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



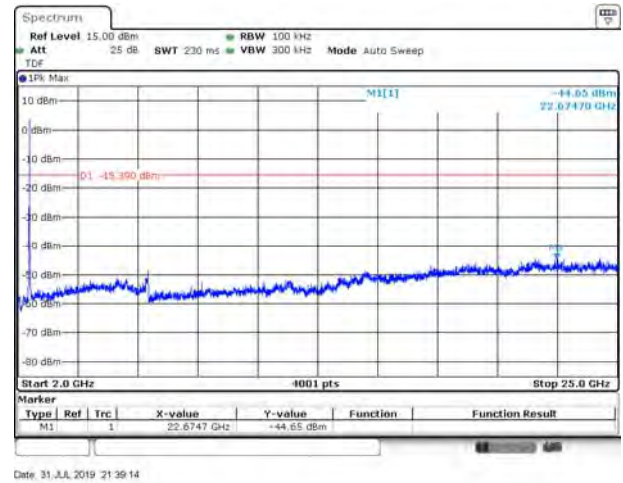
802.11n-20 MIDDLE CHANNEL CARRIER LEVEL



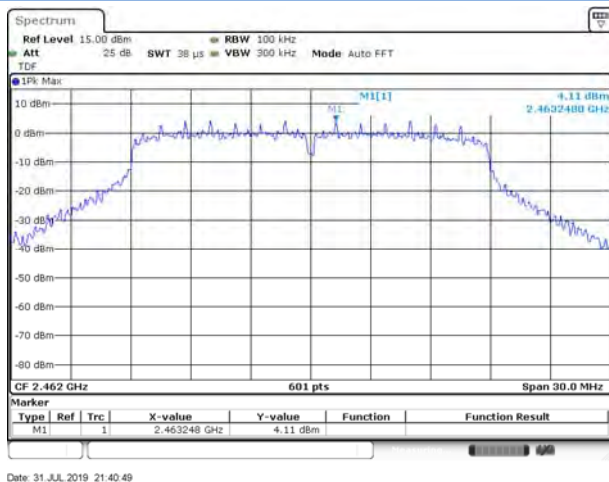
802.11n-20 MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



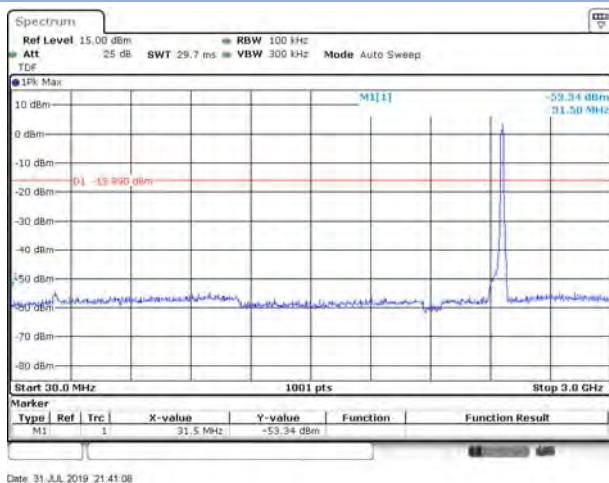
802.11n-20 MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



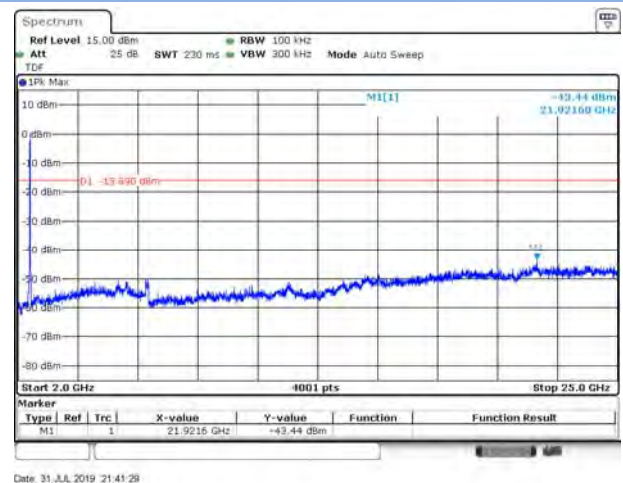
802.11n-20 HIGH CHANNEL CARRIER LEVEL



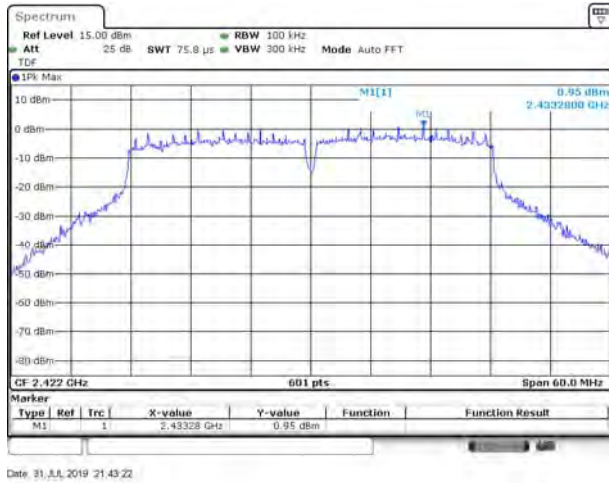
802.11n-20 HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



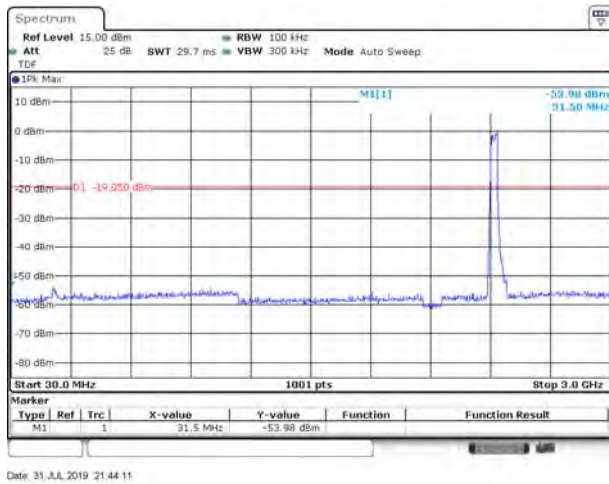
802.11n-20 HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



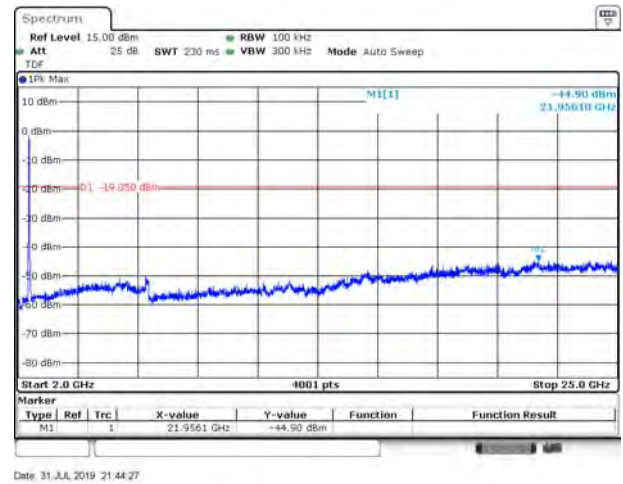
802.11n-40 LOW CHANNEL CARRIER LEVEL



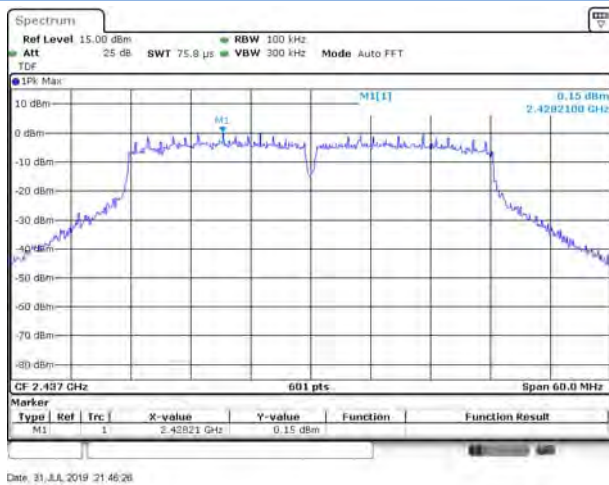
802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz

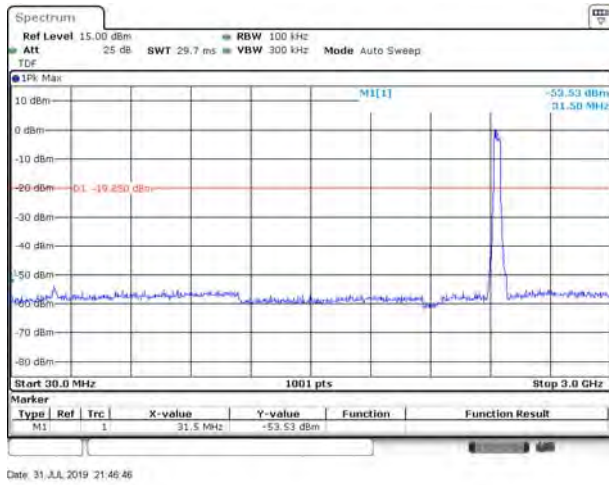
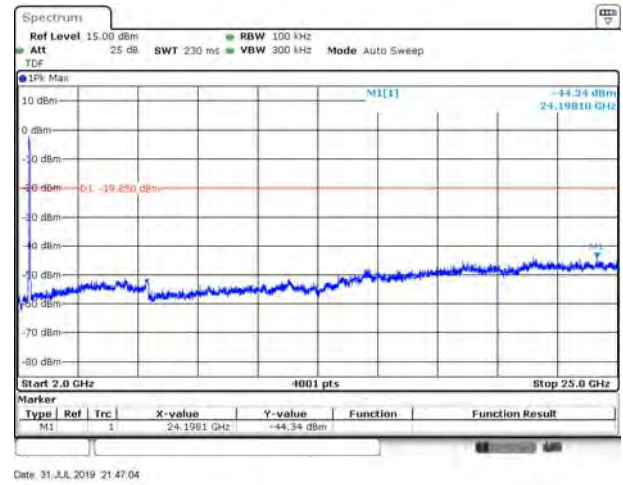


802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

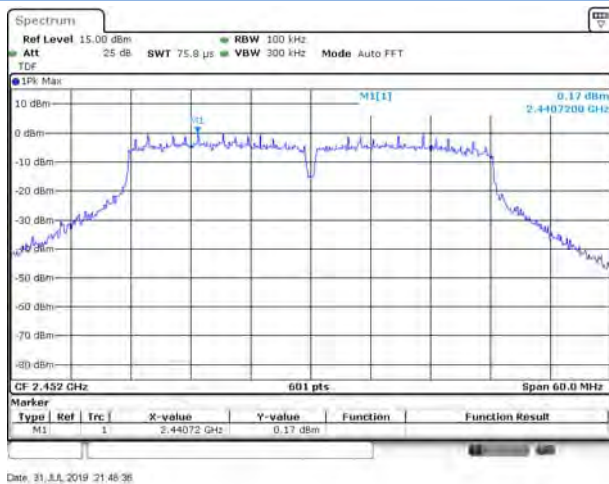
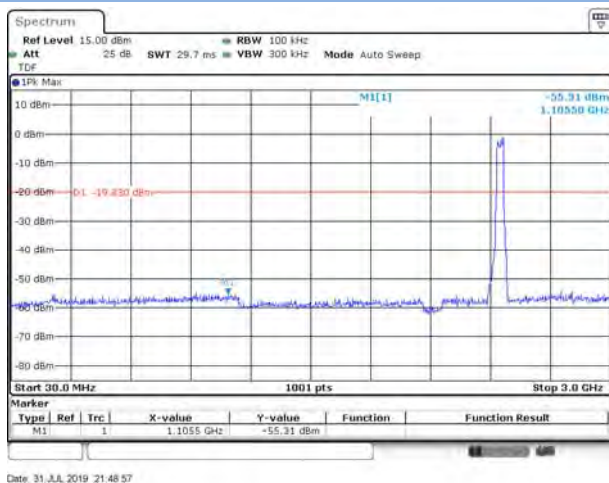
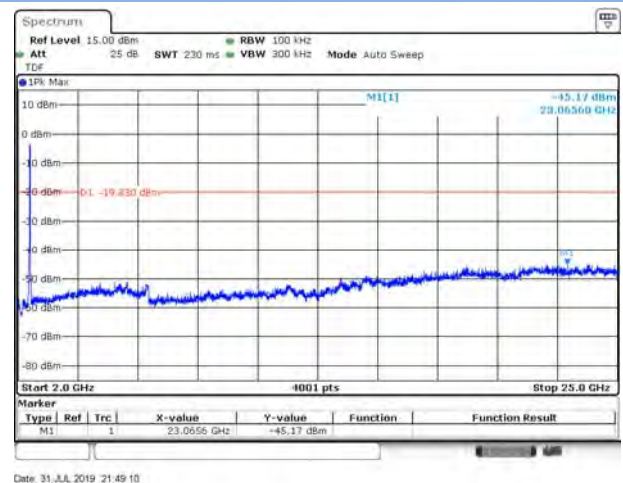


802.11n-40 MIDDLE CHANNEL CARRIER LEVEL



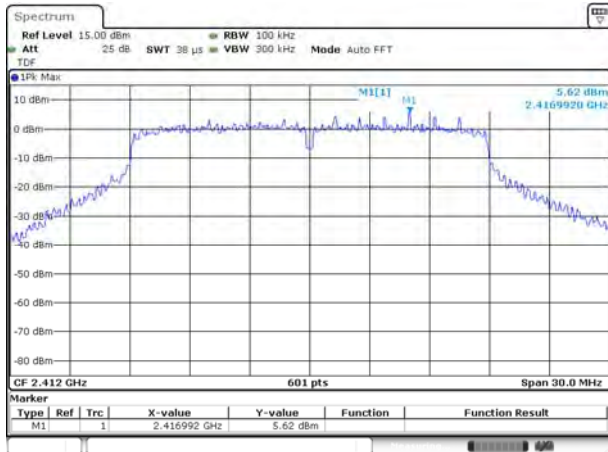
802.11n-40 MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz

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


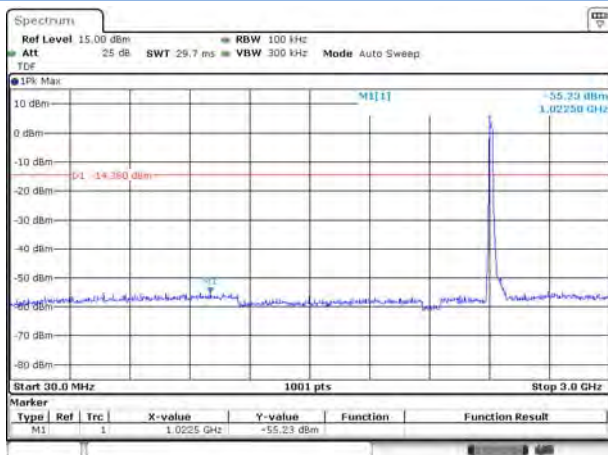
ANT 1

802.11n-20 LOW CHANNEL CARRIER LEVEL



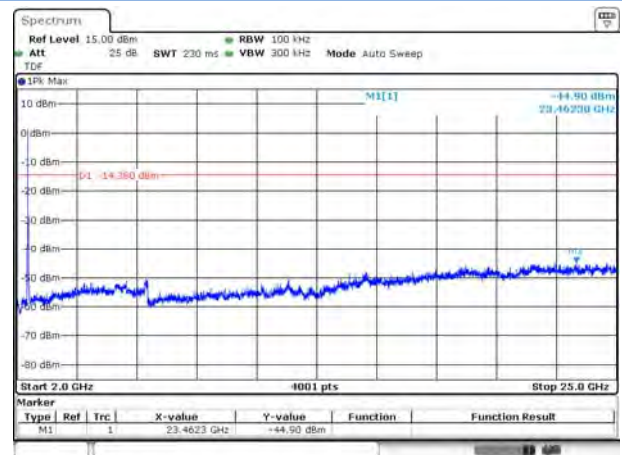
Date: 31.JUL.2019 20:53:30

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



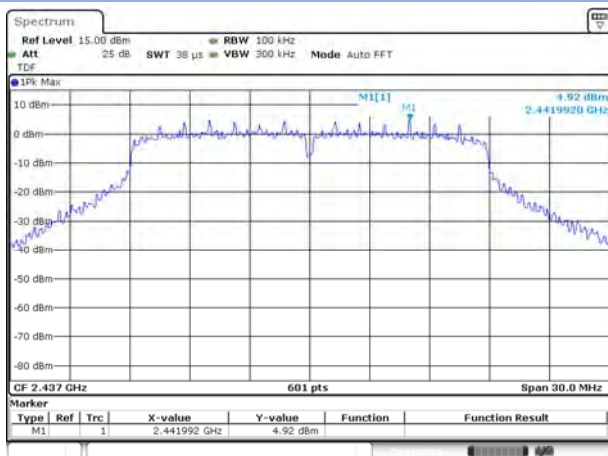
Date: 31.JUL.2019 20:53:51

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

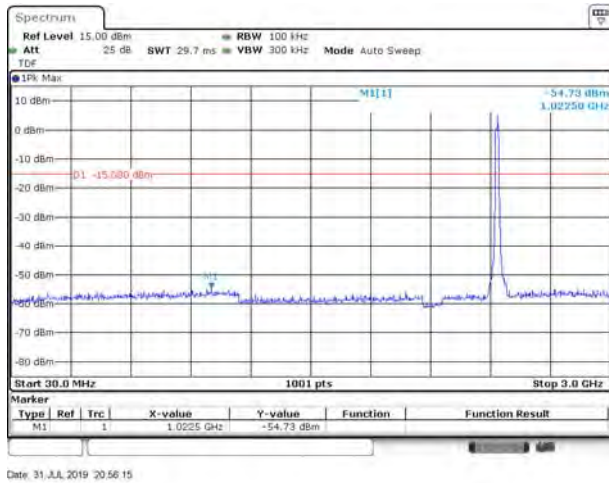
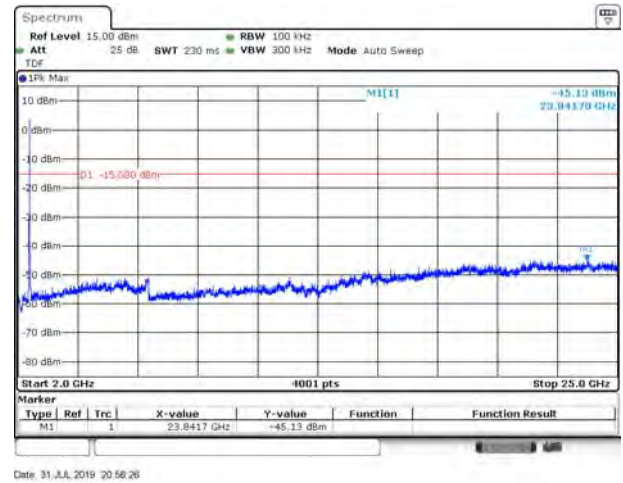


Date: 31.JUL.2019 20:54:05

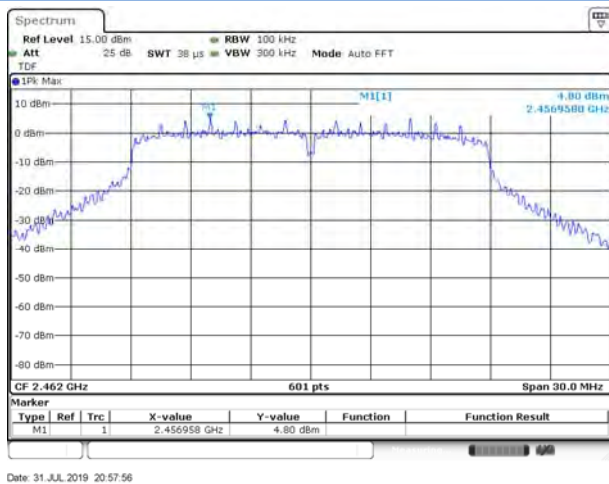
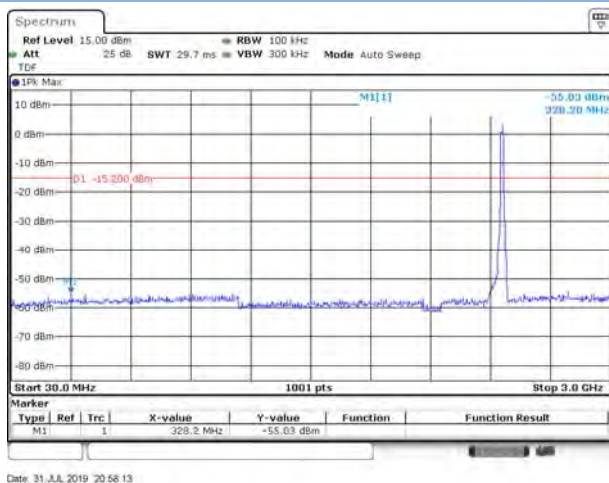
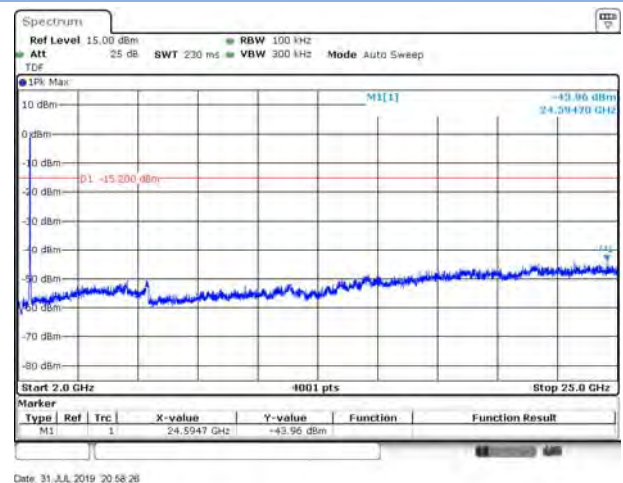
802.11n-20 MIDDLE CHANNEL CARRIER LEVEL



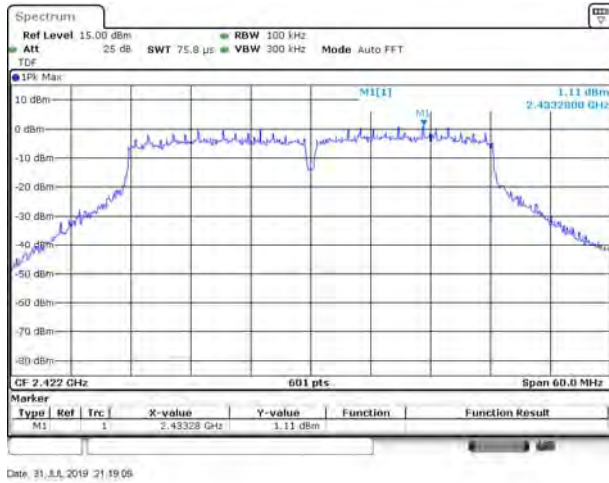
Date: 31.JUL.2019 20:55:50

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

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


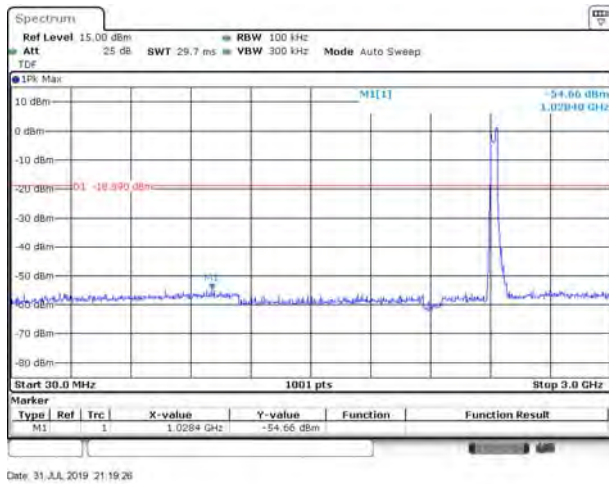
802.11n-20 HIGH CHANNEL CARRIER LEVEL


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

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


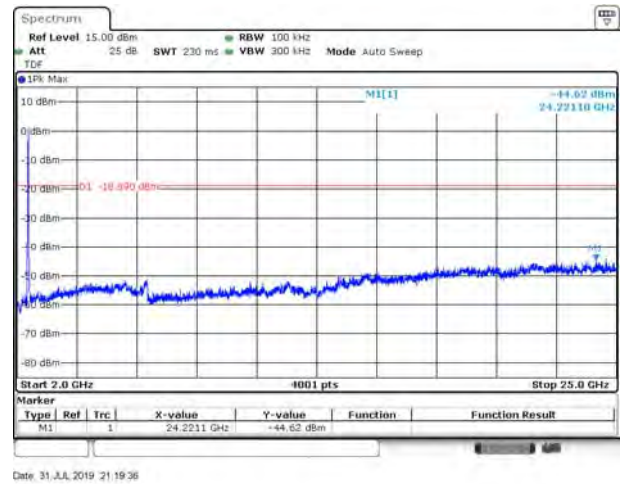
802.11n-40 LOW CHANNEL CARRIER LEVEL



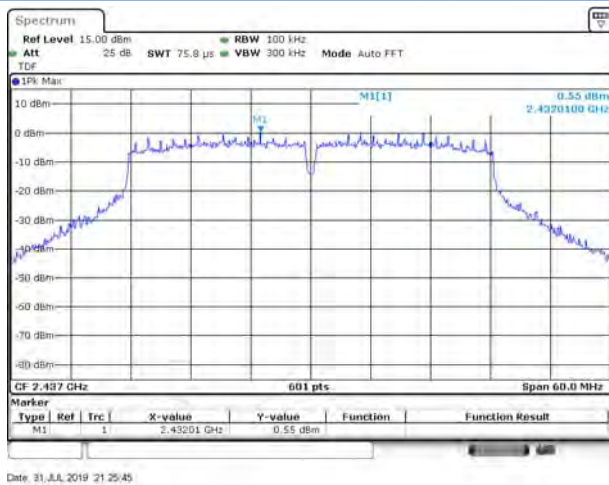
802.11n-40 LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



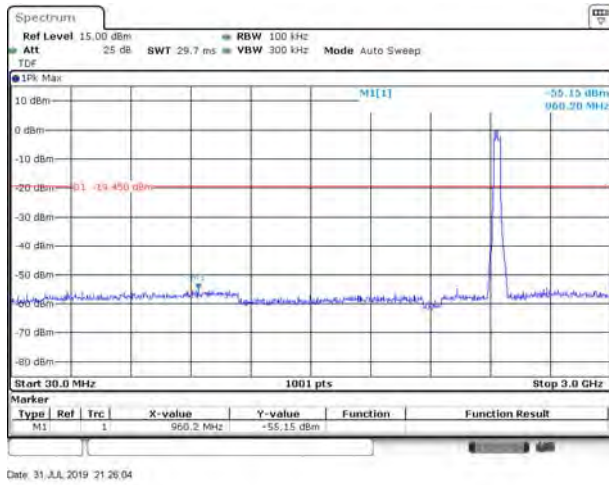
802.11n-40 LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



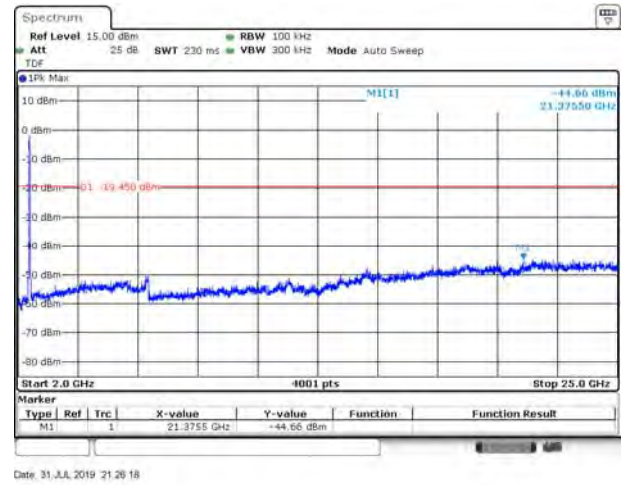
802.11n-40 MIDDLE CHANNEL CARRIER LEVEL



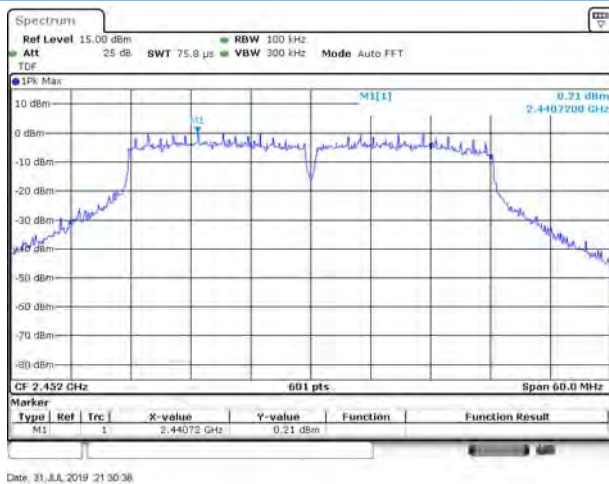
802.11n-40 MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



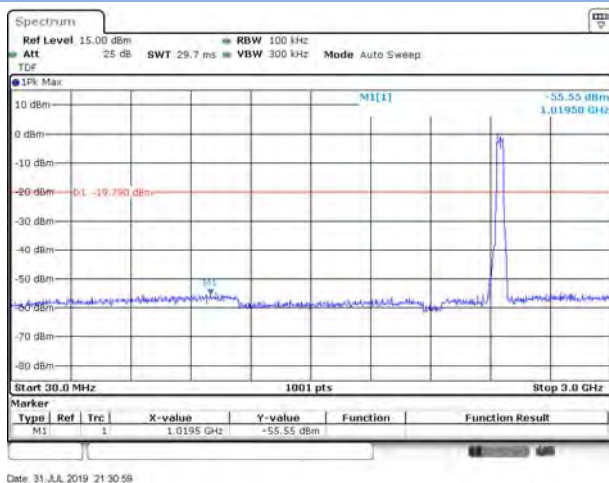
802.11n-40 MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



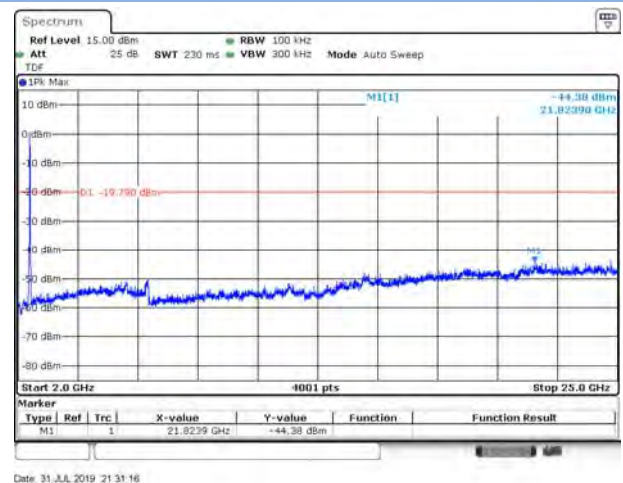
802.11n-40 HIGH CHANNEL CARRIER LEVEL



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



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



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.

ANT 0

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.61	11.70	-8.30	Pass
High Channel	-48.37	11.18	-8.82	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-20.77	8.73	-11.27	Pass
High Channel	-39.47	8.42	-11.58	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-17.78	9.65	-10.35	Pass
High Channel	-36.78	8.88	-11.12	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-22.35	4.71	-15.29	Pass
High Channel	-34.92	3.85	-16.15	Pass

ANT 1

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.94	12.09	-7.91	Pass
High Channel	-46.40	11.61	-8.39	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-18.91	9.15	-10.85	Pass
High Channel	-37.05	8.97	-11.03	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-16.87	9.10	-10.90	Pass
High Channel	-34.70	9.11	-10.89	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-21.22	4.94	-15.06	Pass
High Channel	-32.39	4.09	-15.91	Pass

MIMO

ANT 0

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-26.16	5.42	-14.58	Pass
High Channel	-45.57	4.11	-15.89	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-27.08	0.95	-19.05	Pass
High Channel	-45.11	0.17	-19.83	Pass

ANT 1

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-25.16	5.62	-14.38	Pass
High Channel	-43.26	4.80	-15.20	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-26.74	1.11	-18.89	Pass
High Channel	-43.73	0.21	-19.79	Pass

Test Plots

ANT 0

802.11b LOW CHANNEL, Carrier level



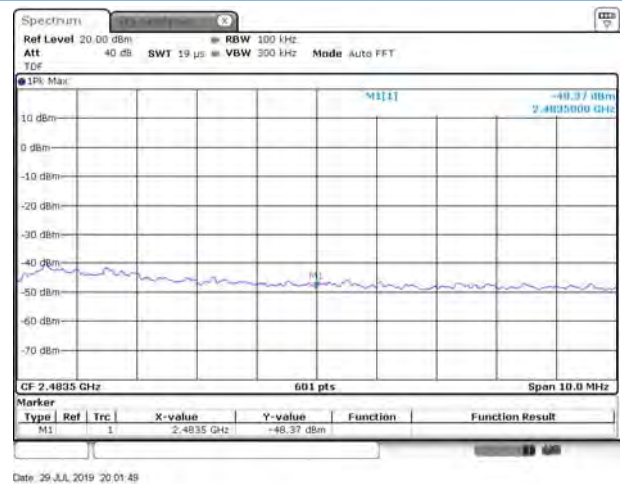
802.11b LOW CHANNEL, Reference level



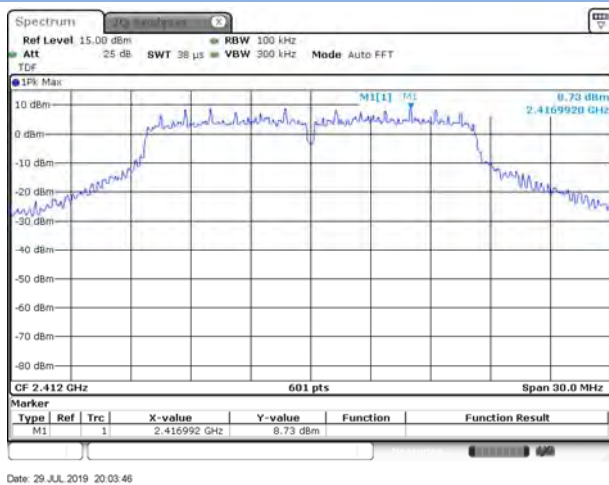
802.11b HIGH CHANNEL, Carrier level



802.11b HIGH CHANNEL, Reference level



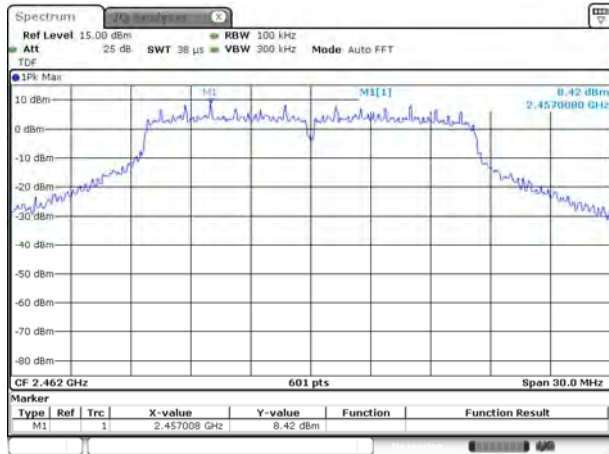
802.11g LOW CHANNEL, Carrier level



802.11g LOW CHANNEL, Reference level

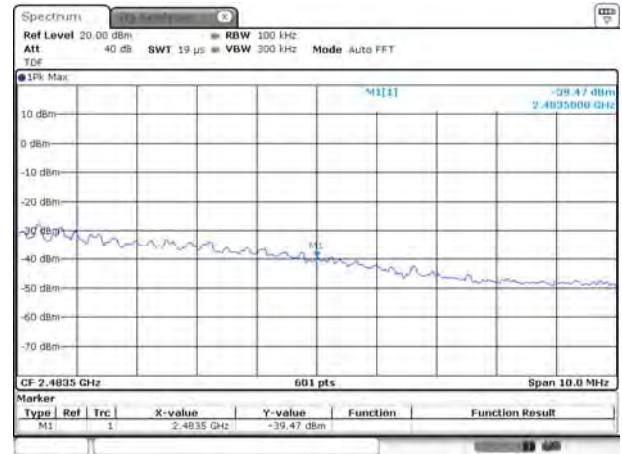


802.11g HIGH CHANNEL, Carrier level



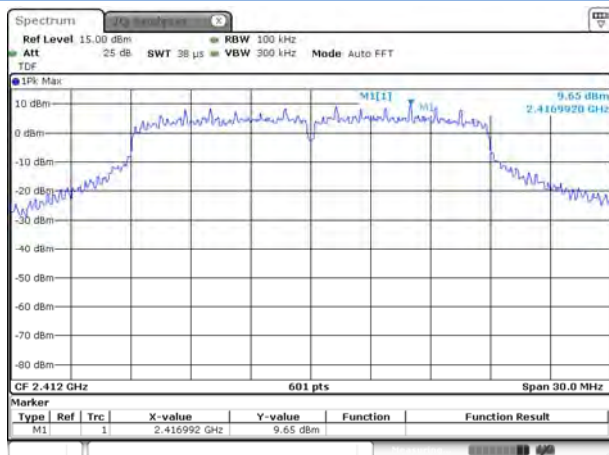
Date: 29 JUL 2019 20:09:04

802.11g HIGH CHANNEL, Reference level



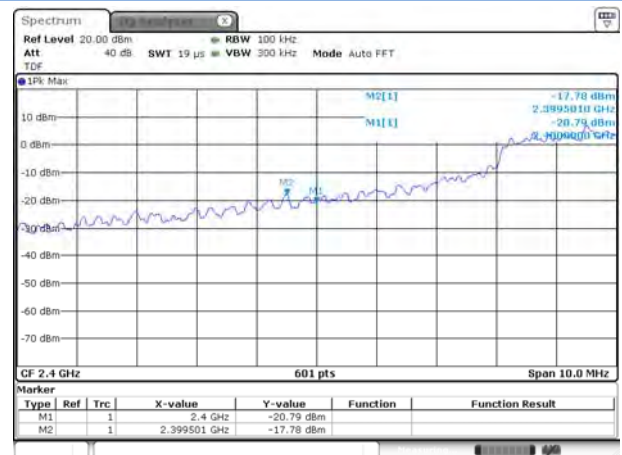
Date: 29 JUL 2019 20:09:51

802.11n-20 MHz LOW CHANNEL, Carrier level



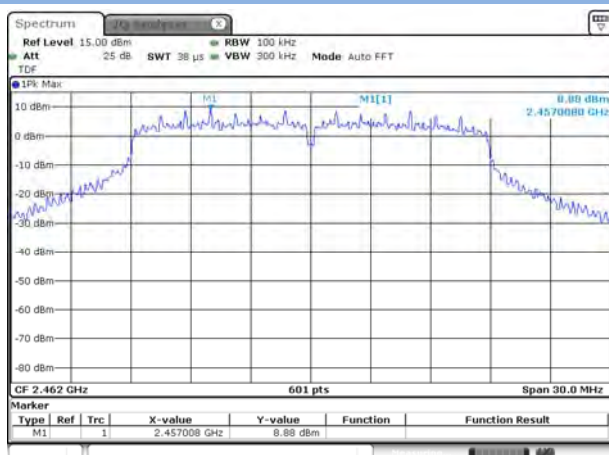
Date: 29 JUL 2019 20:11:30

802.11n-20 MHz LOW CHANNEL, Reference level



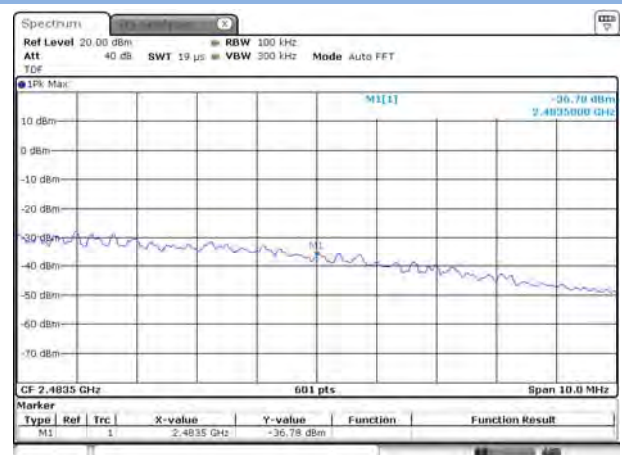
Date: 29 JUL 2019 20:12:33

802.11n-20 MHz HIGH CHANNEL, Carrier level



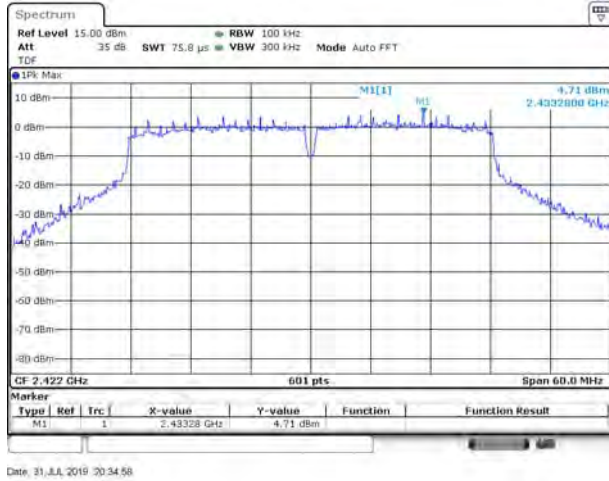
Date: 29 JUL 2019 20:17:10

802.11n-20 MHz HIGH CHANNEL, Reference level

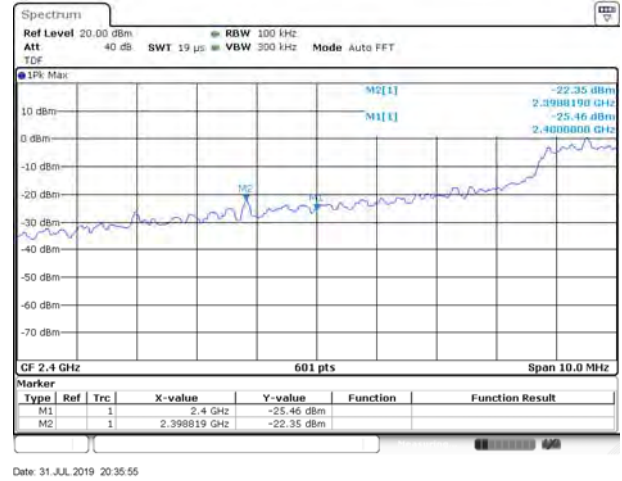


Date: 29 JUL 2019 20:18:04

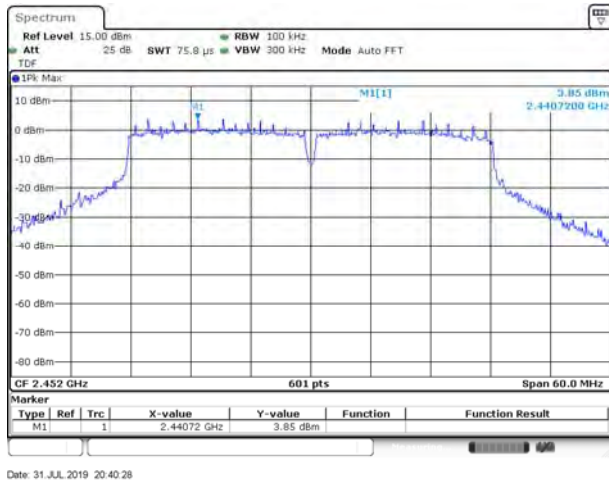
802.11n-40 MHz LOW CHANNEL, Carrier level



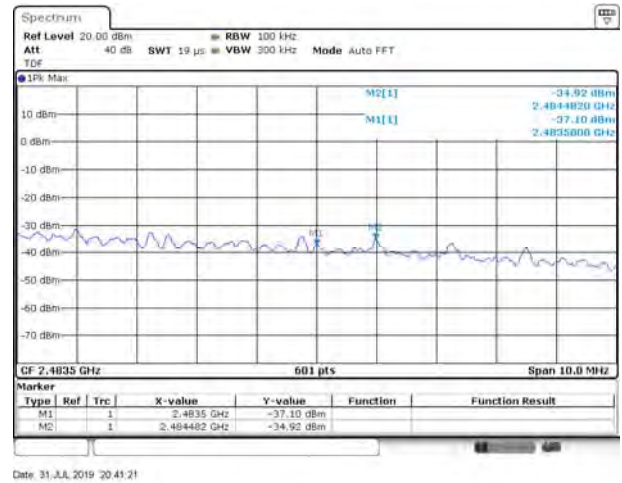
802.11n-40 MHz LOW CHANNEL, Reference level



802.11n-40 MHz HIGH CHANNEL, Carrier level



802.11n-40 MHz HIGH CHANNEL, Reference level



ANT 1

802.11b LOW CHANNEL, Carrier level



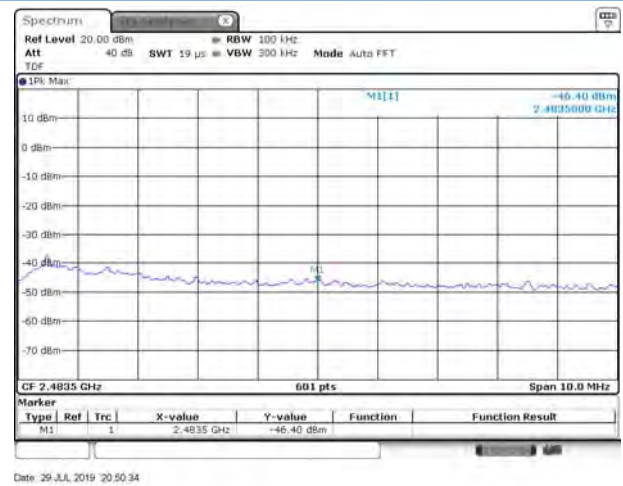
802.11b LOW CHANNEL, Reference level



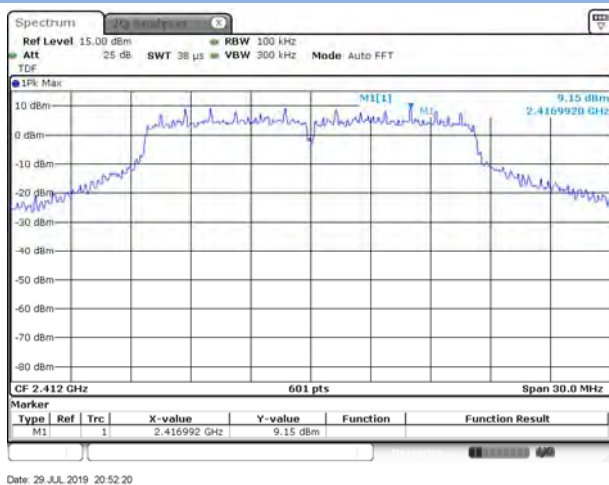
802.11b HIGH CHANNEL, Carrier level



802.11b HIGH CHANNEL, Reference level



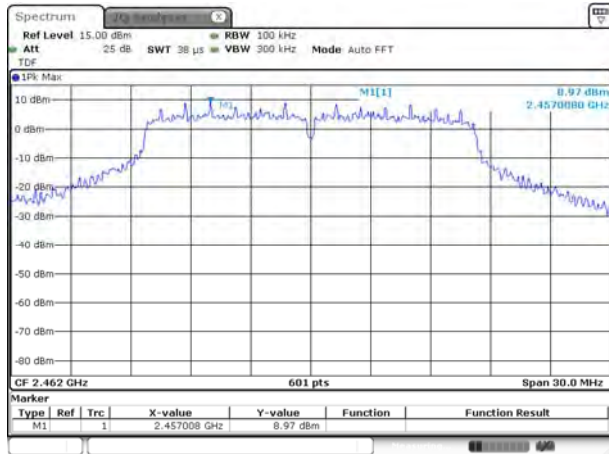
802.11g LOW CHANNEL, Carrier level



802.11g LOW CHANNEL, Reference level

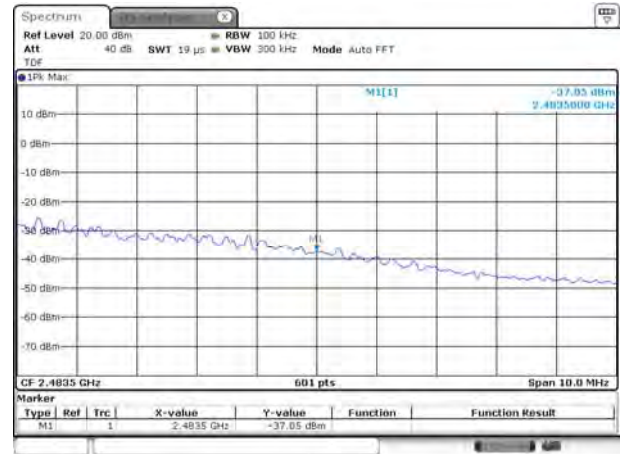


802.11g HIGH CHANNEL, Carrier level



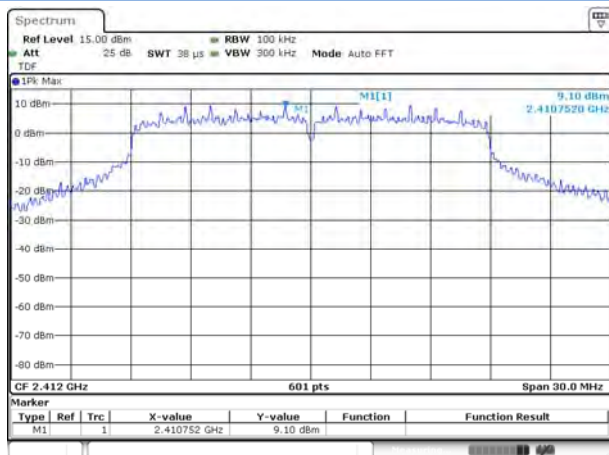
Date: 29 JUL 2019 20:59:34

802.11g HIGH CHANNEL, Reference level



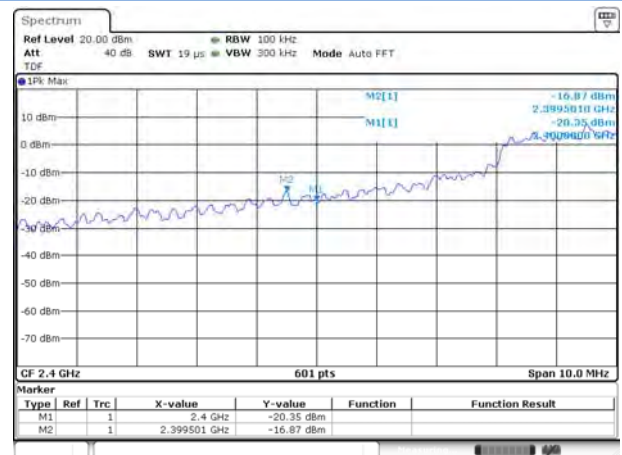
Date: 29 JUL 2019 21:00:56

802.11n-20 MHz LOW CHANNEL, Carrier level



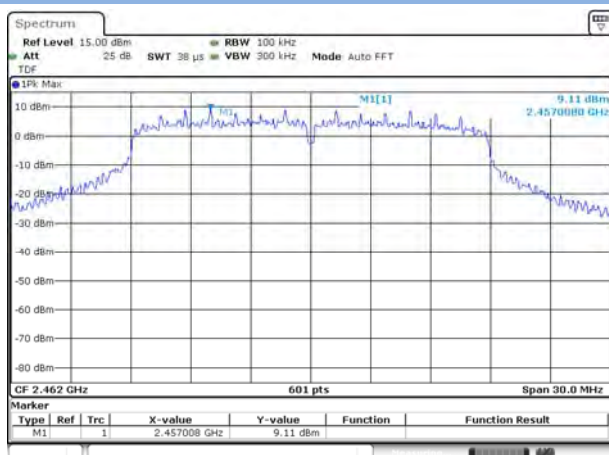
Date: 30 JUL 2019 14:17:06

802.11n-20 MHz LOW CHANNEL, Reference level



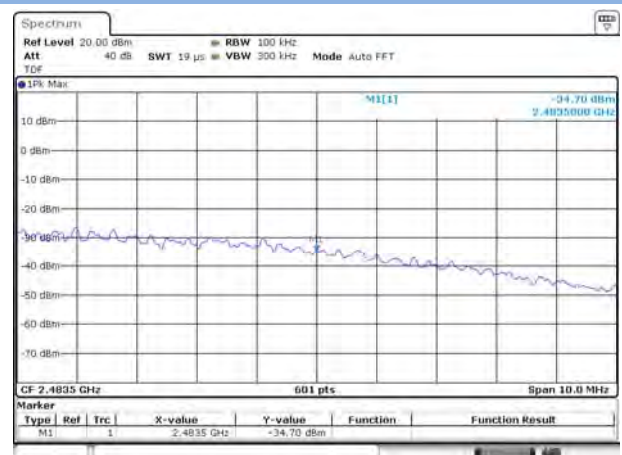
Date: 30 JUL 2019 14:18:16

802.11n-20 MHz HIGH CHANNEL, Carrier level



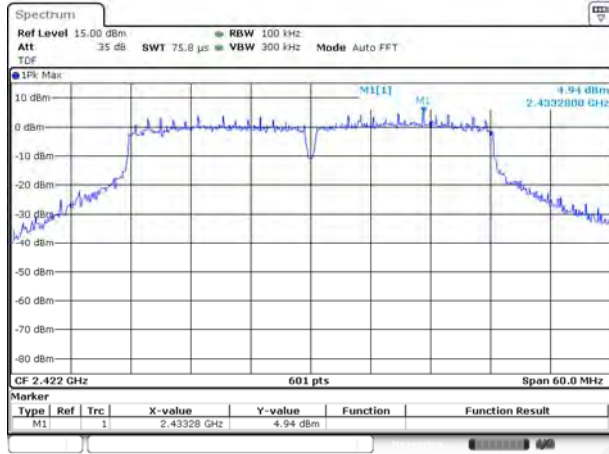
Date: 30 JUL 2019 14:23:32

802.11n-20 MHz HIGH CHANNEL, Reference level



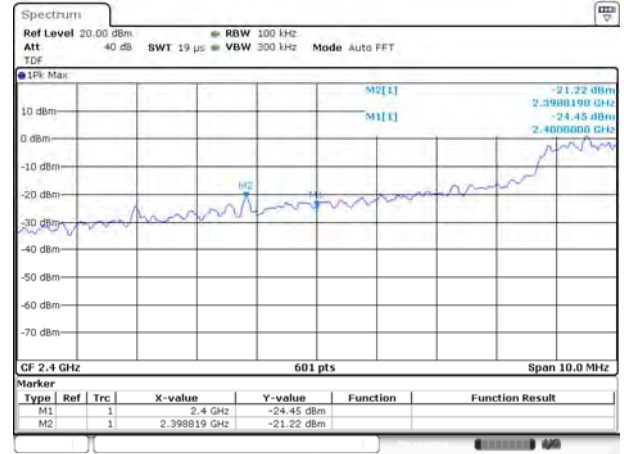
Date: 30 JUL 2019 14:24:24

802.11n-40 MHz LOW CHANNEL, Carrier level



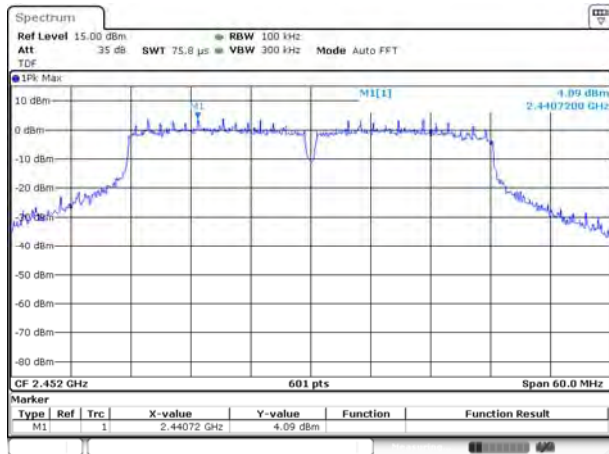
Date: 31.JUL.2019 20:44:22

802.11n-40 MHz LOW CHANNEL, Reference level



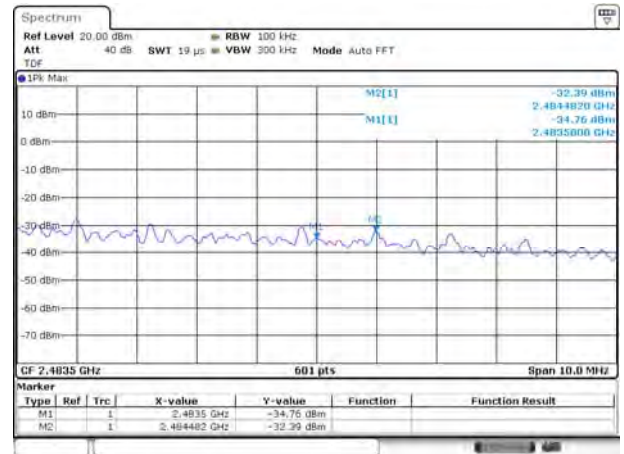
Date: 31.JUL.2019 20:45:24

802.11n-40 MHz HIGH CHANNEL, Carrier level



Date: 31.JUL.2019 20:49:06

802.11n-40 MHz HIGH CHANNEL, Reference level

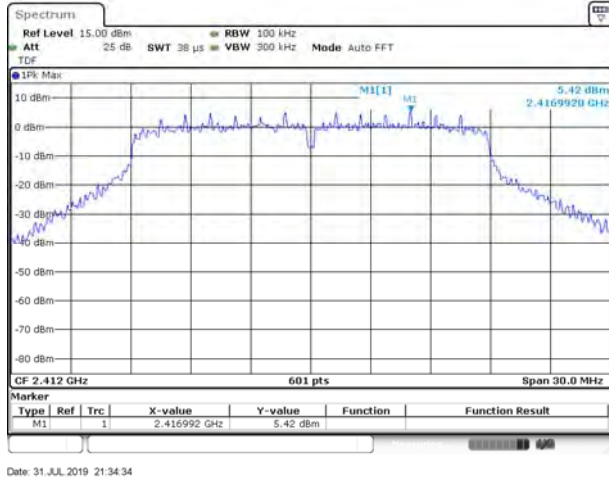


Date: 31.JUL.2019 20:49:54

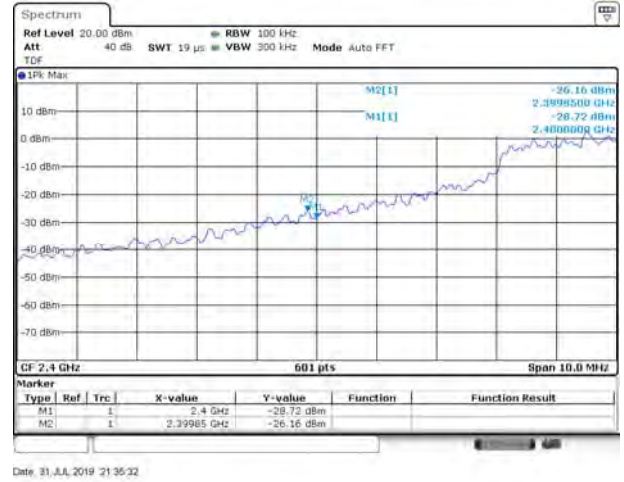
MIMO

ANT 0

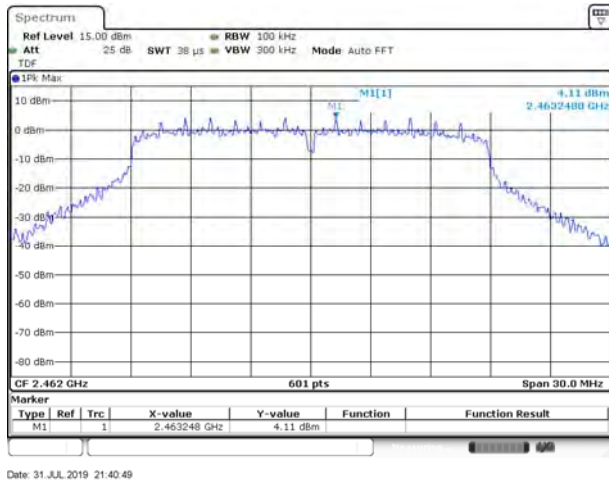
802.11n-20 MHz LOW CHANNEL, Carrier level



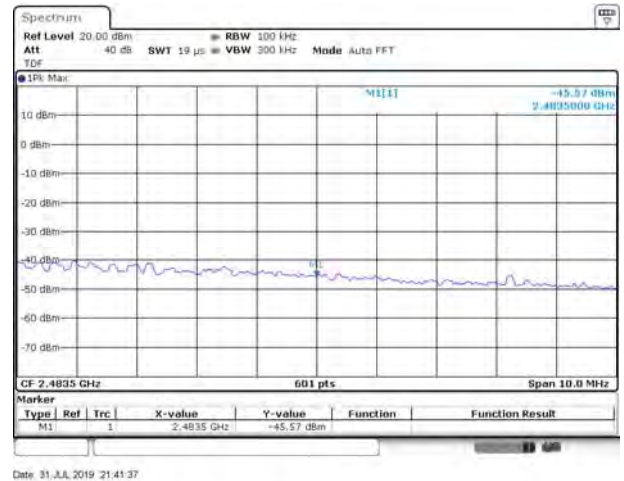
802.11n-20 MHz LOW CHANNEL, Reference level



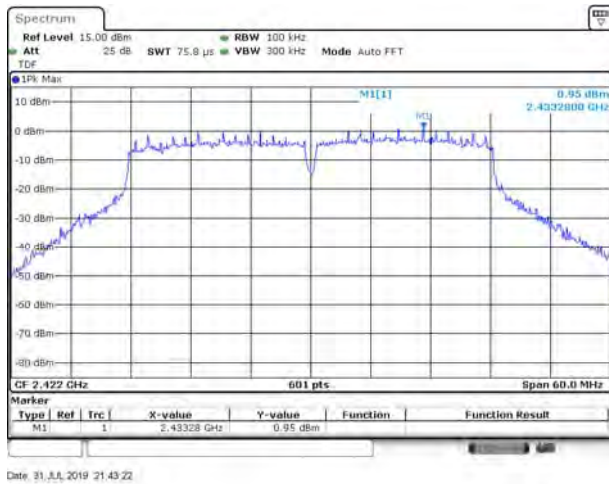
802.11n-20 MHz HIGH CHANNEL, Carrier level



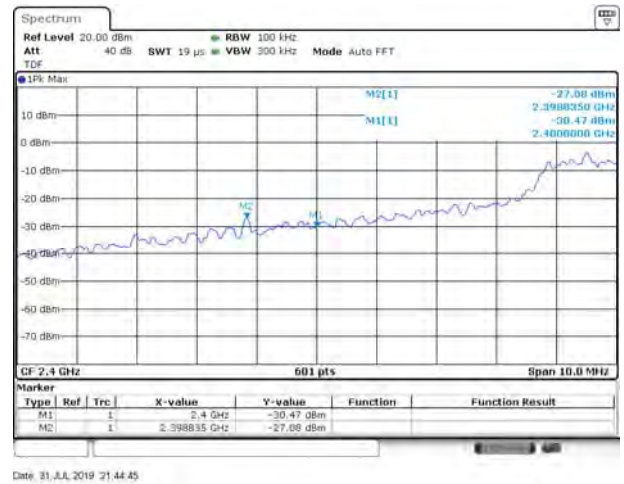
802.11n-20 MHz HIGH CHANNEL, Reference level



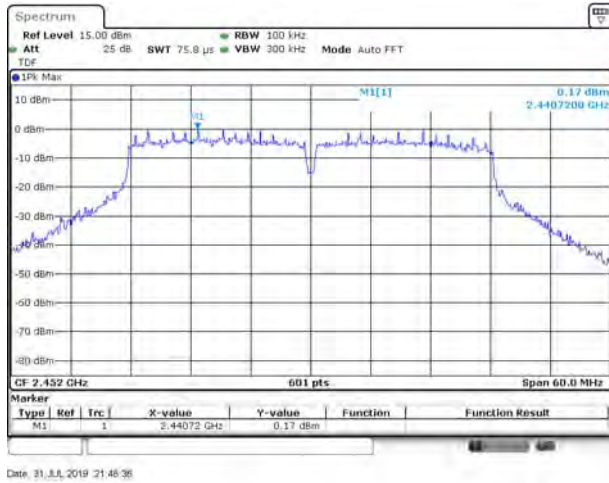
802.11n-40 MHz LOW CHANNEL, Carrier level



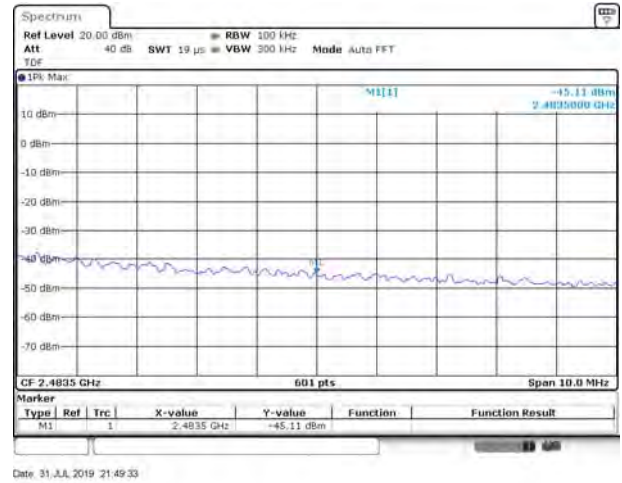
802.11n-40 MHz LOW CHANNEL, Reference level



802.11n-40 MHz HIGH CHANNEL, Carrier level

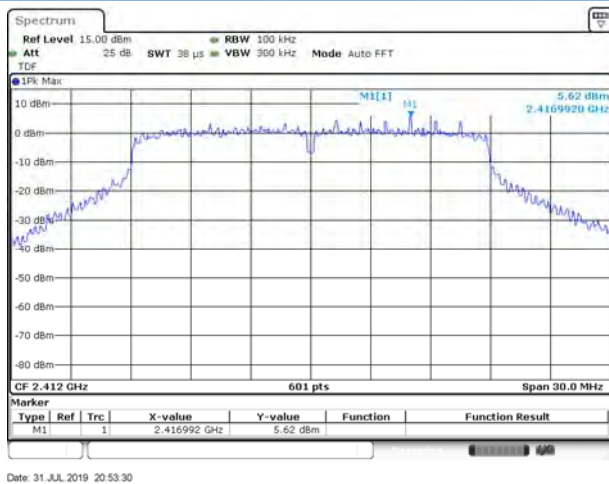


802.11n-40 MHz HIGH CHANNEL, Reference level

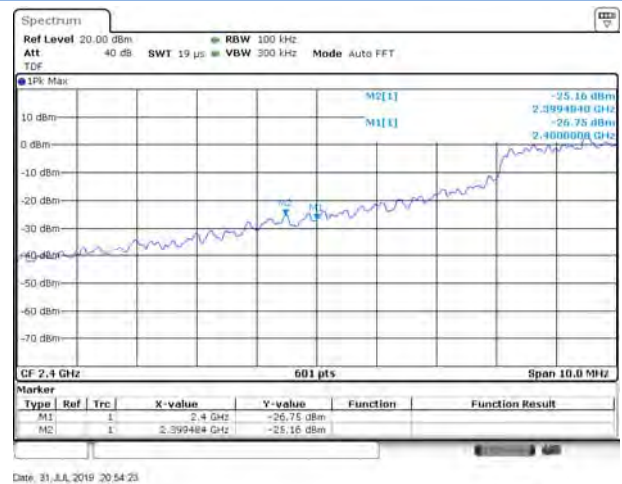


ANT 1

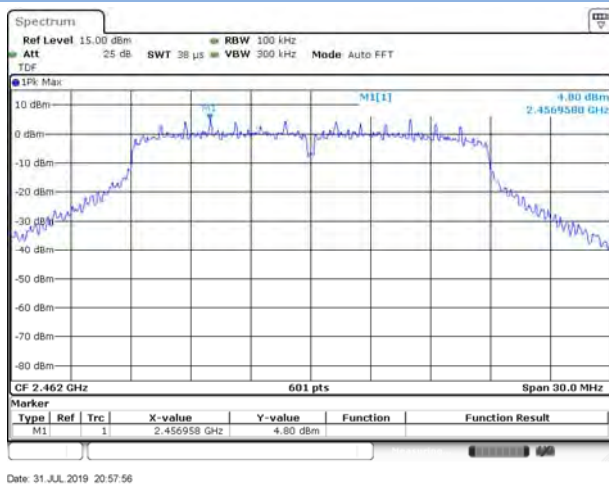
802.11n-20 MHz LOW CHANNEL, Carrier level



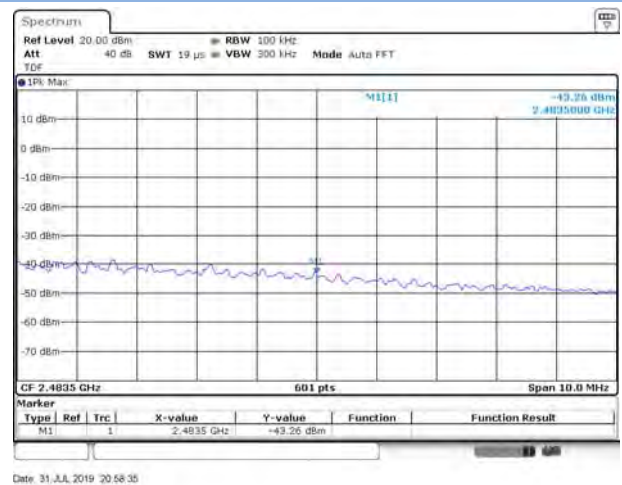
802.11n-20 MHz LOW CHANNEL, Reference level



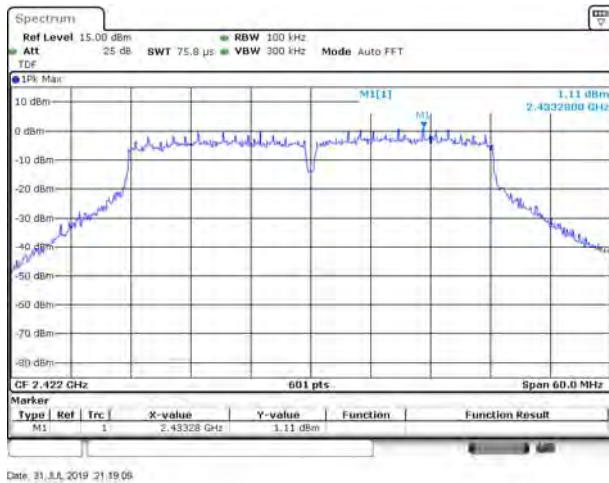
802.11n-20 MHz HIGH CHANNEL, Carrier level



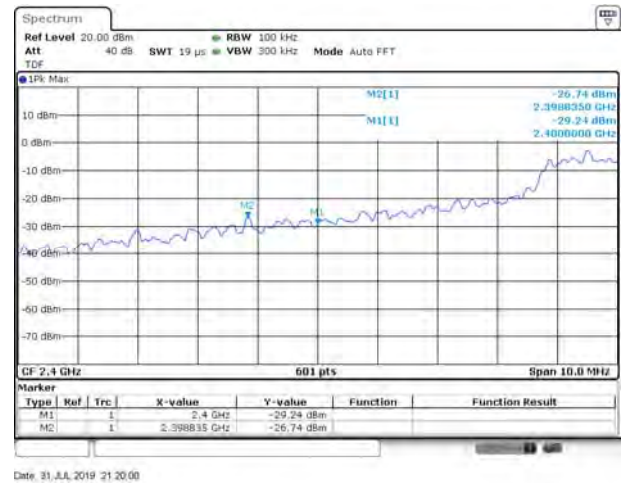
802.11n-20 MHz HIGH CHANNEL, Reference level



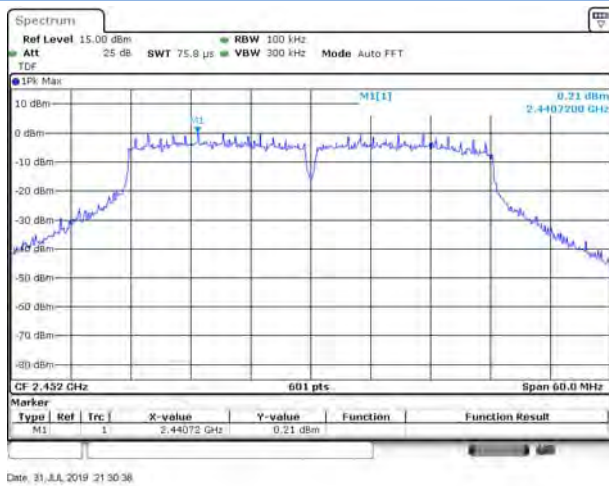
802.11n-40 MHz LOW CHANNEL, Carrier level



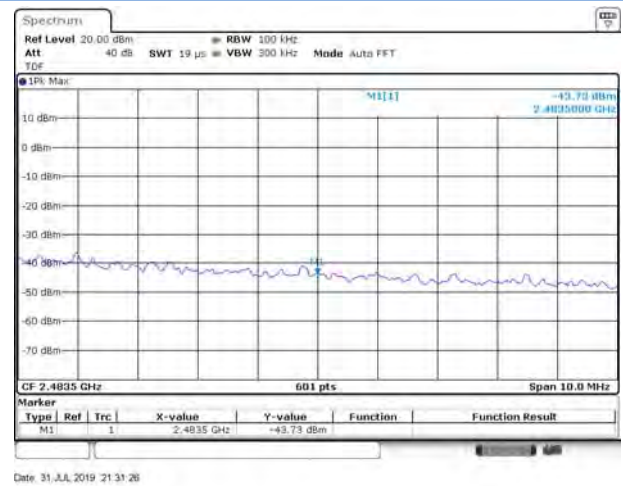
802.11n-40 MHz LOW CHANNEL, Reference level



802.11n-40 MHz HIGH CHANNEL, Carrier level



802.11n-40 MHz HIGH CHANNEL, Reference level

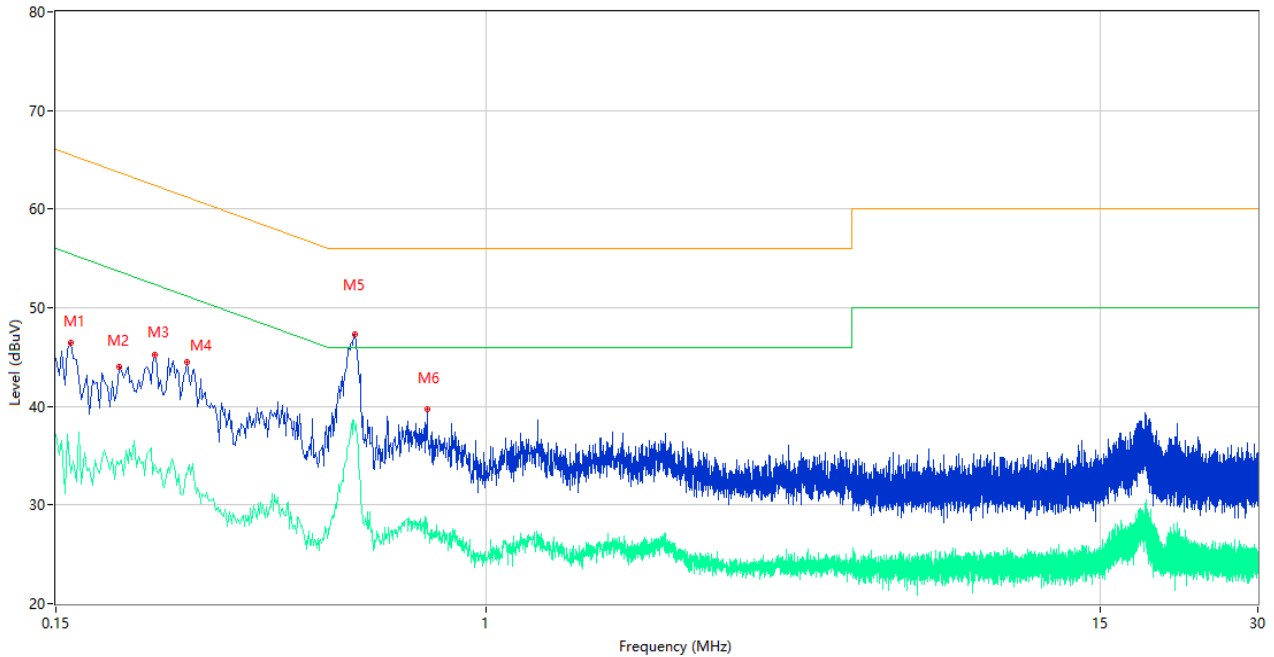


A.5 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode.

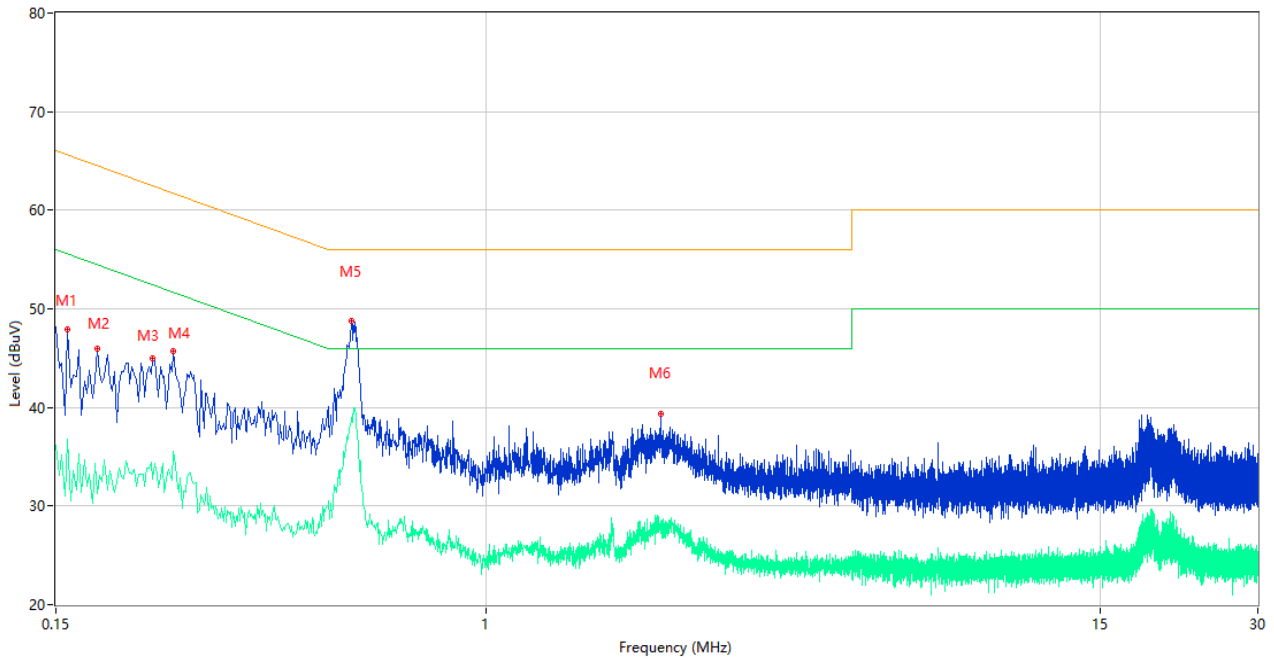
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	46.49	10.40	65.46	-18.97	Peak	L	Pass
1**	0.160	33.22	10.40	55.46	-22.24	AV	L	Pass
2	0.198	44.02	10.38	63.69	-19.67	Peak	L	Pass
2**	0.198	34.10	10.38	53.69	-19.59	AV	L	Pass
3	0.232	45.24	10.36	62.38	-17.14	Peak	L	Pass
3**	0.232	34.11	10.36	52.38	-18.27	AV	L	Pass
4	0.268	44.46	10.34	61.18	-16.72	Peak	L	Pass
4**	0.268	33.11	10.34	51.18	-18.07	AV	L	Pass
5	0.560	47.32	10.28	56.00	-8.68	Peak	L	Pass
5**	0.560	37.63	10.28	46.00	-8.37	AV	L	Pass
6	0.770	39.73	10.26	56.00	-16.27	Peak	L	Pass
6**	0.770	28.26	10.26	46.00	-17.74	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.158	47.87	10.40	65.57	-17.70	Peak	N	Pass
1**	0.158	36.78	10.40	55.57	-18.79	AV	N	Pass
2	0.180	45.91	10.39	64.49	-18.58	Peak	N	Pass
2**	0.180	31.25	10.39	54.49	-23.24	AV	N	Pass
3	0.230	44.96	10.36	62.45	-17.49	Peak	N	Pass
3**	0.230	32.71	10.36	52.45	-19.74	AV	N	Pass
4	0.252	45.69	10.34	61.69	-16.00	Peak	N	Pass
4**	0.252	35.59	10.34	51.69	-16.10	AV	N	Pass
5	0.552	48.80	10.28	56.00	-7.20	Peak	N	Pass
5**	0.552	38.60	10.28	46.00	-7.40	AV	N	Pass
6	2.156	39.37	10.27	56.00	-16.63	Peak	N	Pass
6**	2.156	28.41	10.27	46.00	-17.59	AV	N	Pass

A.6 Radiated Emission

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

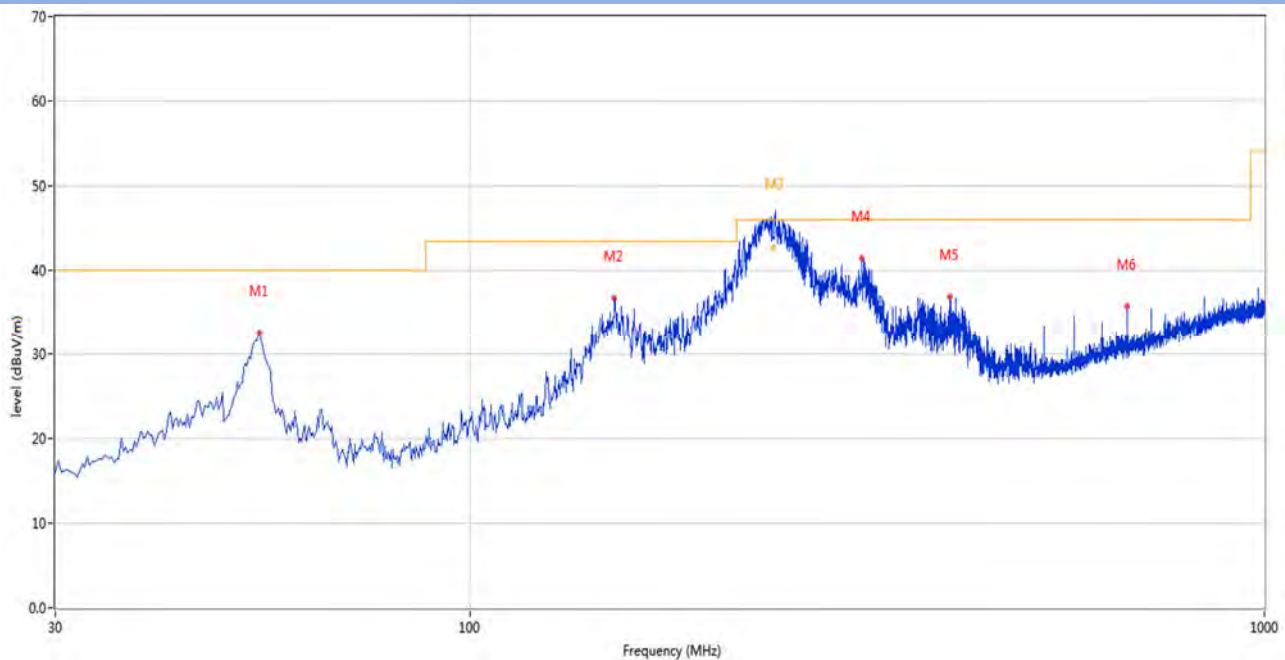
Note²: For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.250	32.62	-23.47	40.0	-7.38	Peak	185.20	200	Horizontal	Pass
2	151.977	36.75	-27.99	43.5	-6.75	Peak	329.40	200	Horizontal	Pass
3	242.055	51.70	-23.33	46.0	5.70	Peak	216.20	100	Horizontal	N/A
3*	242.055	42.90	-23.33	46.0	-3.10	QP	216.20	100	Horizontal	Pass
4	311.300	41.47	-21.63	46.0	-4.53	Peak	245.90	100	Horizontal	Pass
5	401.995	36.89	-19.25	46.0	-9.11	Peak	112.50	100	Horizontal	Pass
6	671.898	35.70	-13.77	46.0	-10.30	Peak	212.80	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.977	34.20	-23.62	40.0	-5.80	Peak	291.40	100	Vertical	Pass
2	154.402	40.34	-27.90	43.5	-3.16	Peak	198.70	100	Vertical	Pass
3	236.852	38.55	-23.28	46.0	-7.45	Peak	322.80	200	Vertical	Pass
4	314.453	34.59	-21.59	46.0	-11.41	Peak	292.80	200	Vertical	Pass
5	382.110	35.82	-19.54	46.0	-10.18	Peak	179.20	200	Vertical	Pass
6	623.882	36.79	-14.51	46.0	-9.21	Peak	291.40	100	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 12.75G is noise only, do not show on the report.

ANT 0

1 GHz to 12.75 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.000	26.40	-17.38	54.0	-27.60	AV	336.00	150	Vertical	Pass
1	1599.000	45.78	-17.38	74.0	-28.22	Peak	336.00	150	Vertical	Pass
2**	2411.000	95.26	-12.26	54.0	41.26	AV	22.00	150	Vertical	N/A
2	2411.000	98.11	-12.26	74.0	24.11	Peak	22.00	150	Vertical	N/A
3**	3659.000	31.46	-6.91	54.0	-22.54	AV	136.00	150	Vertical	Pass
3	3659.000	46.68	-6.91	74.0	-27.32	Peak	136.00	150	Vertical	Pass
4**	5551.000	35.67	-2.20	54.0	-18.33	AV	132.00	150	Vertical	Pass
4	5551.000	51.27	-2.20	74.0	-22.73	Peak	132.00	150	Vertical	Pass
5**	8620.063	37.86	-1.62	54.0	-16.14	AV	94.00	150	Vertical	Pass
5	8620.063	49.84	-1.62	74.0	-24.16	Peak	94.00	150	Vertical	Pass
6**	15602.062	42.12	1.70	54.0	-11.88	AV	340.00	150	Vertical	Pass
6	15602.062	53.84	1.70	74.0	-20.16	Peak	340.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1705.000	26.38	-16.99	54.0	-27.62	AV	16.00	150	Horizontal	Pass
1	1705.000	40.02	-16.99	74.0	-33.98	Peak	16.00	150	Horizontal	Pass
2**	2411.000	100.77	-12.26	54.0	46.77	AV	169.00	150	Horizontal	N/A
2	2411.000	103.55	-12.26	74.0	29.55	Peak	169.00	150	Horizontal	N/A
3**	3732.000	30.68	-6.68	54.0	-23.32	AV	140.00	150	Horizontal	Pass
3	3732.000	46.93	-6.68	74.0	-27.07	Peak	140.00	150	Horizontal	Pass
4**	5952.000	36.26	-1.23	54.0	-17.74	AV	349.00	150	Horizontal	Pass
4	5952.000	52.90	-1.23	74.0	-21.10	Peak	349.00	150	Horizontal	Pass
5**	8621.500	37.79	-1.59	54.0	-16.21	AV	226.00	150	Horizontal	Pass
5	8621.500	49.45	-1.59	74.0	-24.55	Peak	226.00	150	Horizontal	Pass
6**	14451.000	41.34	2.63	54.0	-12.66	AV	358.00	150	Horizontal	Pass
6	14451.000	53.38	2.63	74.0	-20.62	Peak	358.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.500	25.20	-17.28	54.0	-28.80	AV	334.00	150	Vertical	Pass
1	1596.500	45.53	-17.28	74.0	-28.47	Peak	334.00	150	Vertical	Pass
2**	2438.000	95.43	-12.51	54.0	41.43	AV	103.00	150	Vertical	N/A
2	2438.000	98.42	-12.51	74.0	24.42	Peak	103.00	150	Vertical	N/A
3**	3935.000	31.14	-5.73	54.0	-22.86	AV	314.00	150	Vertical	Pass
3	3935.000	47.44	-5.73	74.0	-26.56	Peak	314.00	150	Vertical	Pass
4**	6670.000	38.01	0.04	54.0	-15.99	AV	143.00	150	Vertical	Pass
4	6670.000	53.51	0.04	74.0	-20.49	Peak	143.00	150	Vertical	Pass
5**	7465.750	37.10	-3.31	54.0	-16.90	AV	319.00	150	Vertical	Pass
5	7465.750	48.41	-3.31	74.0	-25.59	Peak	319.00	150	Vertical	Pass
6**	14188.500	41.94	2.29	54.0	-12.06	AV	155.00	150	Vertical	Pass
6	14188.500	53.42	2.29	74.0	-20.58	Peak	155.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.000	26.57	-16.99	54.0	-27.43	AV	340.00	150	Horizontal	Pass
1	1704.000	40.34	-16.99	74.0	-33.66	Peak	340.00	150	Horizontal	Pass
2**	2438.000	100.24	-12.51	54.0	46.24	AV	39.00	150	Horizontal	N/A
2	2438.000	103.11	-12.51	74.0	29.11	Peak	39.00	150	Horizontal	N/A
3**	3549.000	29.95	-7.16	54.0	-24.05	AV	225.00	150	Horizontal	Pass
3	3549.000	47.00	-7.16	74.0	-27.00	Peak	225.00	150	Horizontal	Pass
4**	5042.000	35.54	-3.03	54.0	-18.46	AV	34.00	150	Horizontal	Pass
4	5042.000	50.26	-3.03	74.0	-23.74	Peak	34.00	150	Horizontal	Pass
5**	7517.500	36.78	-2.61	54.0	-17.22	AV	133.00	150	Horizontal	Pass
5	7517.500	47.90	-2.61	74.0	-26.10	Peak	133.00	150	Horizontal	Pass
6**	15519.375	43.67	2.51	54.0	-10.33	AV	0.00	150	Horizontal	Pass
6	15519.375	54.54	2.51	74.0	-19.46	Peak	0.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1594.500	29.09	-17.30	54.0	-24.91	AV	148.00	150	Vertical	Pass
1	1594.500	46.33	-17.30	74.0	-27.67	Peak	148.00	150	Vertical	Pass
2**	2463.000	96.70	-12.56	54.0	42.70	AV	97.00	150	Vertical	N/A
2	2463.000	99.42	-12.56	74.0	25.42	Peak	97.00	150	Vertical	N/A
3**	3645.000	30.81	-6.25	54.0	-23.19	AV	106.00	150	Vertical	Pass
3	3645.000	46.73	-6.25	74.0	-27.27	Peak	106.00	150	Vertical	Pass
4**	5111.000	35.38	-2.28	54.0	-18.62	AV	86.00	150	Vertical	Pass
4	5111.000	50.94	-2.28	74.0	-23.06	Peak	86.00	150	Vertical	Pass
5**	7353.625	36.91	-3.52	54.0	-17.09	AV	103.00	150	Vertical	Pass
5	7353.625	48.35	-3.52	74.0	-25.65	Peak	103.00	150	Vertical	Pass
6**	15427.500	41.87	1.62	54.0	-12.13	AV	97.00	150	Vertical	Pass
6	15427.500	54.82	1.62	74.0	-19.18	Peak	97.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1705.000	27.46	-16.99	54.0	-26.54	AV	25.00	150	Horizontal	Pass
1	1705.000	41.20	-16.99	74.0	-32.80	Peak	25.00	150	Horizontal	Pass
2**	2463.000	100.71	-12.56	54.0	46.71	AV	165.00	150	Horizontal	N/A
2	2463.000	103.43	-12.56	74.0	29.43	Peak	165.00	150	Horizontal	N/A
3**	3706.000	30.47	-6.13	54.0	-23.53	AV	197.00	150	Horizontal	Pass
3	3706.000	46.61	-6.13	74.0	-27.39	Peak	197.00	150	Horizontal	Pass
4**	5150.000	34.38	-2.81	54.0	-19.62	AV	255.00	150	Horizontal	Pass
4	5150.000	51.34	-2.81	74.0	-22.66	Peak	255.00	150	Horizontal	Pass
5**	7544.813	36.66	-2.21	54.0	-17.34	AV	254.00	150	Horizontal	Pass
5	7544.813	48.48	-2.21	74.0	-25.52	Peak	254.00	150	Horizontal	Pass
6**	13302.563	40.22	1.28	54.0	-13.78	AV	214.00	150	Horizontal	Pass
6	13302.563	52.50	1.28	74.0	-21.50	Peak	214.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.500	24.57	-17.28	54.0	-29.43	AV	339.00	150	Vertical	Pass
1	1596.500	45.38	-17.28	74.0	-28.62	Peak	339.00	150	Vertical	Pass
2**	2407.500	91.43	-11.83	54.0	37.43	AV	21.00	150	Vertical	N/A
2	2407.500	99.33	-11.83	74.0	25.33	Peak	21.00	150	Vertical	N/A
3**	3652.000	30.96	-6.35	54.0	-23.04	AV	320.00	150	Vertical	Pass
3	3652.000	47.09	-6.35	74.0	-26.91	Peak	320.00	150	Vertical	Pass
4**	5087.000	34.09	-3.01	54.0	-19.91	AV	110.00	150	Vertical	Pass
4	5087.000	51.06	-3.01	74.0	-22.94	Peak	110.00	150	Vertical	Pass
5**	7610.937	36.55	-2.62	54.0	-17.45	AV	350.00	150	Vertical	Pass
5	7610.937	47.55	-2.62	74.0	-26.45	Peak	350.00	150	Vertical	Pass
6**	11881.750	38.70	1.90	54.0	-15.30	AV	0.00	150	Vertical	Pass
6	11881.750	50.45	1.90	74.0	-23.55	Peak	0.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.000	25.47	-16.99	54.0	-28.53	AV	360.00	150	Horizontal	Pass
1	1704.000	41.49	-16.99	74.0	-32.51	Peak	360.00	150	Horizontal	Pass
2**	2407.000	97.79	-11.86	54.0	43.79	AV	111.00	150	Horizontal	N/A
2	2407.000	105.78	-11.86	74.0	31.78	Peak	111.00	150	Horizontal	N/A
3**	4214.000	32.14	-5.25	54.0	-21.86	AV	0.00	150	Horizontal	Pass
3	4214.000	47.13	-5.25	74.0	-26.87	Peak	0.00	150	Horizontal	Pass
4**	5947.000	35.89	-1.39	54.0	-18.11	AV	127.00	150	Horizontal	Pass
4	5947.000	51.33	-1.39	74.0	-22.67	Peak	127.00	150	Horizontal	Pass
5**	7829.437	36.59	-2.20	54.0	-17.41	AV	305.00	150	Horizontal	Pass
5	7829.437	48.05	-2.20	74.0	-25.95	Peak	305.00	150	Horizontal	Pass
6**	14067.750	41.52	1.75	54.0	-12.48	AV	91.00	150	Horizontal	Pass
6	14067.750	52.63	1.75	74.0	-21.37	Peak	91.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.500	25.10	-17.34	54.0	-28.90	AV	3.00	150	Vertical	Pass
1	1599.500	45.86	-17.34	74.0	-28.14	Peak	3.00	150	Vertical	Pass
2**	2440.500	91.97	-12.55	54.0	37.97	AV	99.00	150	Vertical	N/A
2	2440.500	99.74	-12.55	74.0	25.74	Peak	99.00	150	Vertical	N/A
3**	3664.000	31.47	-6.91	54.0	-22.53	AV	360.00	150	Vertical	Pass
3	3664.000	46.81	-6.91	74.0	-27.19	Peak	360.00	150	Vertical	Pass
4**	6001.000	50.19	-1.35	54.0	-3.81	AV	215.00	150	Vertical	Pass
4	6001.000	50.14	-1.35	74.0	-23.86	Peak	215.00	150	Vertical	Pass
5**	8108.313	37.40	-1.86	54.0	-16.60	AV	86.00	150	Vertical	Pass
5	8108.313	48.41	-1.86	74.0	-25.59	Peak	86.00	150	Vertical	Pass
6**	15573.188	42.94	2.61	54.0	-11.06	AV	341.00	150	Vertical	Pass
6	15573.188	55.05	2.61	74.0	-18.95	Peak	341.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.500	26.26	-16.91	54.0	-27.74	AV	358.00	150	Horizontal	Pass
1	1704.500	41.36	-16.91	74.0	-32.64	Peak	358.00	150	Horizontal	Pass
2**	2440.000	97.44	-12.51	54.0	43.44	AV	172.00	150	Horizontal	N/A
2	2440.000	105.47	-12.51	74.0	31.47	Peak	172.00	150	Horizontal	N/A
3**	3658.000	31.64	-6.84	54.0	-22.36	AV	350.00	150	Horizontal	Pass
3	3658.000	47.03	-6.84	74.0	-26.97	Peak	350.00	150	Horizontal	Pass
4**	5104.000	35.02	-2.43	54.0	-18.98	AV	0.00	150	Horizontal	Pass
4	5104.000	49.98	-2.43	74.0	-24.02	Peak	0.00	150	Horizontal	Pass
5**	7679.938	35.48	-2.54	54.0	-18.52	AV	10.00	150	Horizontal	Pass
5	7679.938	47.70	-2.54	74.0	-26.30	Peak	10.00	150	Horizontal	Pass
6**	14825.062	42.12	1.78	54.0	-11.88	AV	73.00	150	Horizontal	Pass
6	14825.062	53.16	1.78	74.0	-20.84	Peak	73.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1600.000	24.74	-17.30	54.0	-29.26	AV	147.00	150	Vertical	Pass
1	1600.000	42.93	-17.30	74.0	-31.07	Peak	147.00	150	Vertical	Pass
2**	2464.500	92.08	-12.69	54.0	38.08	AV	93.00	150	Vertical	N/A
2	2464.500	100.09	-12.69	74.0	26.09	Peak	93.00	150	Vertical	N/A
3**	3656.000	31.80	-6.58	54.0	-22.20	AV	307.00	150	Vertical	Pass
3	3656.000	47.45	-6.58	74.0	-26.55	Peak	307.00	150	Vertical	Pass
4**	6011.000	36.16	-1.23	54.0	-17.84	AV	285.00	150	Vertical	Pass
4	6011.000	51.85	-1.23	74.0	-22.15	Peak	285.00	150	Vertical	Pass
5**	7365.125	36.85	-3.39	54.0	-17.15	AV	100.00	150	Vertical	Pass
5	7365.125	48.34	-3.39	74.0	-25.66	Peak	100.00	150	Vertical	Pass
6**	11907.625	39.06	1.96	54.0	-14.94	AV	354.00	150	Vertical	Pass
6	11907.625	50.32	1.96	74.0	-23.68	Peak	354.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1467.000	23.55	-17.23	54.0	-30.45	AV	41.00	150	Horizontal	Pass
1	1467.000	40.07	-17.23	74.0	-33.93	Peak	41.00	150	Horizontal	Pass
2**	2459.000	97.49	-12.87	54.0	43.49	AV	112.00	150	Horizontal	N/A
2	2459.000	105.22	-12.87	74.0	31.22	Peak	112.00	150	Horizontal	N/A
3**	3425.000	29.21	-7.00	54.0	-24.79	AV	268.00	150	Horizontal	Pass
3	3425.000	46.85	-7.00	74.0	-27.15	Peak	268.00	150	Horizontal	Pass
4**	4674.000	33.89	-3.57	54.0	-20.11	AV	268.00	150	Horizontal	Pass
4	4674.000	49.21	-3.57	74.0	-24.79	Peak	268.00	150	Horizontal	Pass
5**	7608.062	36.73	-2.63	54.0	-17.27	AV	119.00	150	Horizontal	Pass
5	7608.062	47.72	-2.63	74.0	-26.28	Peak	119.00	150	Horizontal	Pass
6**	13338.000	40.47	1.74	54.0	-13.53	AV	270.00	150	Horizontal	Pass
6	13338.000	51.67	1.74	74.0	-22.33	Peak	270.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.500	28.68	-17.29	54.0	-25.32	AV	265.00	150	Vertical	Pass
1	1593.500	46.86	-17.29	74.0	-27.14	Peak	265.00	150	Vertical	Pass
2**	2419.500	87.59	-12.31	54.0	33.59	AV	128.00	150	Vertical	N/A
2	2419.500	96.15	-12.31	74.0	22.15	Peak	128.00	150	Vertical	N/A
3**	3675.000	34.93	-6.87	54.0	-19.07	AV	360.00	150	Vertical	Pass
3	3675.000	45.22	-6.87	74.0	-28.78	Peak	360.00	150	Vertical	Pass
4**	5949.000	40.80	-1.28	54.0	-13.20	AV	264.00	150	Vertical	Pass
4	5949.000	51.67	-1.28	74.0	-22.33	Peak	264.00	150	Vertical	Pass
5**	8411.625	37.37	-0.96	54.0	-16.63	AV	328.00	150	Vertical	Pass
5	8411.625	49.62	-0.96	74.0	-24.38	Peak	328.00	150	Vertical	Pass
6**	15270.000	42.70	1.36	54.0	-11.30	AV	337.00	150	Vertical	Pass
6	15270.000	54.10	1.36	74.0	-19.90	Peak	337.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.500	27.06	-17.28	54.0	-26.94	AV	46.00	150	Horizontal	Pass
1	1596.500	43.50	-17.28	74.0	-30.50	Peak	46.00	150	Horizontal	Pass
2**	2404.500	88.04	-11.86	54.0	34.04	AV	34.00	150	Horizontal	N/A
2	2404.500	97.23	-11.86	74.0	23.23	Peak	34.00	150	Horizontal	N/A
3**	3645.000	35.73	-6.25	54.0	-18.27	AV	122.00	150	Horizontal	Pass
3	3645.000	45.53	-6.25	74.0	-28.47	Peak	122.00	150	Horizontal	Pass
4**	6679.000	43.08	0.14	54.0	-10.92	AV	28.00	150	Horizontal	Pass
4	6679.000	53.59	0.14	74.0	-20.41	Peak	28.00	150	Horizontal	Pass
5**	7656.937	36.96	-3.16	54.0	-17.04	AV	176.00	150	Horizontal	Pass
5	7656.937	47.89	-3.16	74.0	-26.11	Peak	176.00	150	Horizontal	Pass
6**	17426.438	45.05	4.66	54.0	-8.95	AV	309.00	150	Horizontal	Pass
6	17426.438	55.04	4.66	74.0	-18.96	Peak	309.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1594.000	32.71	-17.32	54.0	-21.29	AV	253.00	150	Vertical	Pass
1	1594.000	48.56	-17.32	74.0	-25.44	Peak	253.00	150	Vertical	Pass
2**	2429.500	87.04	-12.64	54.0	33.04	AV	101.00	150	Vertical	N/A
2	2429.500	95.40	-12.64	74.0	21.40	Peak	101.00	150	Vertical	N/A
3**	3571.000	34.83	-6.64	54.0	-19.17	AV	299.00	150	Vertical	Pass
3	3571.000	45.43	-6.64	74.0	-28.57	Peak	299.00	150	Vertical	Pass
4**	6601.000	42.44	-0.39	54.0	-11.56	AV	271.00	150	Vertical	Pass
4	6601.000	53.16	-0.39	74.0	-20.84	Peak	271.00	150	Vertical	Pass
5**	7472.937	37.32	-3.56	54.0	-16.68	AV	248.00	150	Vertical	Pass
5	7472.937	47.39	-3.56	74.0	-26.61	Peak	248.00	150	Vertical	Pass
6**	16942.125	44.26	2.89	54.0	-9.74	AV	10.00	150	Vertical	Pass
6	16942.125	55.41	2.89	74.0	-18.59	Peak	10.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.000	26.43	-17.26	54.0	-27.57	AV	46.00	150	Horizontal	Pass
1	1593.000	43.04	-17.26	74.0	-30.96	Peak	46.00	150	Horizontal	Pass
2**	2430.000	88.34	-12.66	54.0	34.34	AV	160.00	150	Horizontal	N/A
2	2430.000	96.61	-12.66	74.0	22.61	Peak	160.00	150	Horizontal	N/A
3**	3221.000	33.76	-6.81	54.0	-20.24	AV	305.00	150	Horizontal	Pass
3	3221.000	44.38	-6.81	74.0	-29.62	Peak	305.00	150	Horizontal	Pass
4**	4910.000	39.09	-2.57	54.0	-14.91	AV	324.00	150	Horizontal	Pass
4	4910.000	49.07	-2.57	74.0	-24.93	Peak	324.00	150	Horizontal	Pass
5**	7349.313	37.88	-3.48	54.0	-16.12	AV	177.00	150	Horizontal	Pass
5	7349.313	47.55	-3.48	74.0	-26.45	Peak	177.00	150	Horizontal	Pass
6**	16207.126	44.27	2.53	54.0	-9.73	AV	7.00	150	Horizontal	Pass
6	16207.126	54.48	2.53	74.0	-19.52	Peak	7.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.500	29.26	-17.29	54.0	-24.74	AV	309.00	150	Vertical	Pass
1	1593.500	49.77	-17.29	74.0	-24.23	Peak	309.00	150	Vertical	Pass
2**	2468.500	85.99	-12.35	54.0	31.99	AV	85.00	150	Vertical	N/A
2	2468.500	93.81	-12.35	74.0	19.81	Peak	85.00	150	Vertical	N/A
3**	3651.000	35.16	-6.40	54.0	-18.84	AV	26.00	150	Vertical	Pass
3	3651.000	45.50	-6.40	74.0	-28.50	Peak	26.00	150	Vertical	Pass
4**	4935.000	39.42	-2.68	54.0	-14.58	AV	71.00	150	Vertical	Pass
4	4935.000	48.98	-2.68	74.0	-25.02	Peak	71.00	150	Vertical	Pass
5**	7974.625	36.45	-3.13	54.0	-17.55	AV	288.00	150	Vertical	Pass
5	7974.625	48.67	-3.13	74.0	-25.33	Peak	288.00	150	Vertical	Pass
6**	15234.562	43.47	2.06	54.0	-10.53	AV	9.00	150	Vertical	Pass
6	15234.562	53.81	2.06	74.0	-20.19	Peak	9.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.500	27.96	-17.34	54.0	-26.04	AV	154.00	150	Horizontal	Pass
1	1599.500	45.59	-17.34	74.0	-28.41	Peak	154.00	150	Horizontal	Pass
2**	2454.500	88.17	-12.72	54.0	34.17	AV	104.00	150	Horizontal	N/A
2	2454.500	95.36	-12.72	74.0	21.36	Peak	104.00	150	Horizontal	N/A
3**	3658.000	35.34	-6.84	54.0	-18.66	AV	186.00	150	Horizontal	Pass
3	3658.000	45.19	-6.84	74.0	-28.81	Peak	186.00	150	Horizontal	Pass
4**	6670.000	43.08	0.04	54.0	-10.92	AV	345.00	150	Horizontal	Pass
4	6670.000	53.18	0.04	74.0	-20.82	Peak	345.00	150	Horizontal	Pass
5**	8221.875	38.08	-1.49	54.0	-15.92	AV	88.00	150	Horizontal	Pass
5	8221.875	48.28	-1.49	74.0	-25.72	Peak	88.00	150	Horizontal	Pass
6**	14773.875	42.89	1.46	54.0	-11.11	AV	6.00	150	Horizontal	Pass
6	14773.875	53.66	1.46	74.0	-20.34	Peak	6.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.500	32.22	-17.34	54.0	-21.78	AV	90.00	150	Vertical	Pass
1	1599.500	48.13	-17.34	74.0	-25.87	Peak	90.00	150	Vertical	Pass
2**	2437.000	87.21	-12.56	54.0	33.21	AV	99.00	150	Vertical	N/A
2	2437.000	94.75	-12.56	74.0	20.75	Peak	99.00	150	Vertical	N/A
3**	3053.000	33.99	-7.70	54.0	-20.01	AV	219.00	150	Vertical	Pass
3	3053.000	43.99	-7.70	74.0	-30.01	Peak	219.00	150	Vertical	Pass
4**	5975.000	41.06	-1.38	54.0	-12.94	AV	127.00	150	Vertical	Pass
4	5975.000	50.87	-1.38	74.0	-23.13	Peak	127.00	150	Vertical	Pass
5**	7554.875	38.21	-1.66	54.0	-15.79	AV	66.00	150	Vertical	Pass
5	7554.875	48.09	-1.66	74.0	-25.91	Peak	66.00	150	Vertical	Pass
6**	15850.125	43.22	1.88	54.0	-10.78	AV	12.00	150	Vertical	Pass
6	15850.125	54.45	1.88	74.0	-19.55	Peak	12.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1595.500	28.54	-17.27	54.0	-25.46	AV	148.00	150	Horizontal	Pass
1	1595.500	42.07	-17.27	74.0	-31.93	Peak	148.00	150	Horizontal	Pass
2**	2408.500	87.45	-11.95	54.0	33.45	AV	26.00	150	Horizontal	N/A
2	2408.500	95.83	-11.95	74.0	21.83	Peak	26.00	150	Horizontal	N/A
3**	3643.000	34.57	-6.59	54.0	-19.43	AV	66.00	150	Horizontal	Pass
3	3643.000	45.42	-6.59	74.0	-28.58	Peak	66.00	150	Horizontal	Pass
4**	4925.000	39.29	-2.73	54.0	-14.71	AV	309.00	150	Horizontal	Pass
4	4925.000	49.18	-2.73	74.0	-24.82	Peak	309.00	150	Horizontal	Pass
5**	7530.438	37.71	-2.51	54.0	-16.29	AV	54.00	150	Horizontal	Pass
5	7530.438	47.68	-2.51	74.0	-26.32	Peak	54.00	150	Horizontal	Pass
6**	17429.062	45.40	4.58	54.0	-8.60	AV	10.00	150	Horizontal	Pass
6	17429.062	55.67	4.58	74.0	-18.33	Peak	10.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.000	33.55	-17.38	54.0	-20.45	AV	80.00	150	Vertical	Pass
1	1599.000	49.09	-17.38	74.0	-24.91	Peak	80.00	150	Vertical	Pass
2**	2438.500	85.81	-12.50	54.0	31.81	AV	101.00	150	Vertical	N/A
2	2438.500	94.52	-12.50	74.0	20.52	Peak	101.00	150	Vertical	N/A
3**	3676.000	35.28	-6.62	54.0	-18.72	AV	169.00	150	Vertical	Pass
3	3676.000	45.46	-6.62	74.0	-28.54	Peak	169.00	150	Vertical	Pass
4**	6000.000	41.00	-1.37	54.0	-13.00	AV	250.00	150	Vertical	Pass
4	6000.000	52.18	-1.37	74.0	-21.82	Peak	250.00	150	Vertical	Pass
5**	7327.750	37.40	-3.41	54.0	-16.60	AV	28.00	150	Vertical	Pass
5	7327.750	48.76	-3.41	74.0	-25.24	Peak	28.00	150	Vertical	Pass
6**	16934.250	44.85	2.68	54.0	-9.15	AV	3.00	150	Vertical	Pass
6	16934.250	54.81	2.68	74.0	-19.19	Peak	3.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.000	26.76	-17.38	54.0	-27.24	AV	163.00	150	Horizontal	Pass
1	1599.000	43.45	-17.38	74.0	-30.55	Peak	163.00	150	Horizontal	Pass
2**	2438.500	86.50	-12.50	54.0	32.50	AV	35.00	150	Horizontal	N/A
2	2438.500	94.95	-12.50	74.0	20.95	Peak	35.00	150	Horizontal	N/A
3**	3570.000	34.73	-6.66	54.0	-19.27	AV	307.00	150	Horizontal	Pass
3	3570.000	45.28	-6.66	74.0	-28.72	Peak	307.00	150	Horizontal	Pass
4**	5153.000	39.61	-2.81	54.0	-14.39	AV	319.00	150	Horizontal	Pass
4	5153.000	49.88	-2.81	74.0	-24.12	Peak	319.00	150	Horizontal	Pass
5**	7431.250	37.86	-2.82	54.0	-16.14	AV	10.00	150	Horizontal	Pass
5	7431.250	48.39	-2.82	74.0	-25.61	Peak	10.00	150	Horizontal	Pass
6**	16942.125	44.64	2.89	54.0	-9.36	AV	109.00	150	Horizontal	Pass
6	16942.125	55.54	2.89	74.0	-18.46	Peak	109.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.500	26.60	-17.29	54.0	-27.40	AV	323.00	150	Vertical	Pass
1	1593.500	44.19	-17.29	74.0	-29.81	Peak	323.00	150	Vertical	Pass
2**	2464.000	88.62	-12.64	54.0	34.62	AV	95.00	150	Vertical	N/A
2	2464.000	96.30	-12.64	74.0	22.30	Peak	95.00	150	Vertical	N/A
3**	3164.000	30.65	-7.49	54.0	-23.35	AV	98.00	150	Vertical	Pass
3	3164.000	45.16	-7.49	74.0	-28.84	Peak	98.00	150	Vertical	Pass
4**	6000.000	35.79	-1.37	54.0	-18.21	AV	331.00	150	Vertical	Pass
4	6000.000	52.52	-1.37	74.0	-21.48	Peak	331.00	150	Vertical	Pass
5**	7324.875	36.57	-3.14	54.0	-17.43	AV	320.00	150	Vertical	Pass
5	7324.875	48.19	-3.14	74.0	-25.81	Peak	320.00	150	Vertical	Pass
6**	13341.938	40.99	1.76	54.0	-13.01	AV	122.00	150	Vertical	Pass
6	13341.938	52.57	1.76	74.0	-21.43	Peak	122.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1692.000	23.63	-17.15	54.0	-30.37	AV	341.00	150	Horizontal	Pass
1	1692.000	40.67	-17.15	74.0	-33.33	Peak	341.00	150	Horizontal	Pass
2**	2444.500	94.28	-12.59	54.0	40.28	AV	164.00	150	Horizontal	N/A
2	2444.500	102.15	-12.59	74.0	28.15	Peak	164.00	150	Horizontal	N/A
3**	3712.000	30.38	-6.41	54.0	-23.62	AV	175.00	150	Horizontal	Pass
3	3712.000	46.44	-6.41	74.0	-27.56	Peak	175.00	150	Horizontal	Pass
4**	6445.000	37.28	-0.02	54.0	-16.72	AV	77.00	150	Horizontal	Pass
4	6445.000	52.82	-0.02	74.0	-21.18	Peak	77.00	150	Horizontal	Pass
5**	7533.313	36.93	-2.28	54.0	-17.07	AV	233.00	150	Horizontal	Pass
5	7533.313	48.04	-2.28	74.0	-25.96	Peak	233.00	150	Horizontal	Pass
6**	12932.437	39.99	1.35	54.0	-14.01	AV	40.00	150	Horizontal	Pass
6	12932.437	52.14	1.35	74.0	-21.86	Peak	40.00	150	Horizontal	Pass

ANT 1

1 GHz to 12.75 GHz, ANT V 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.500	24.78	-17.34	54.0	-29.22	AV	362.00	150	Vertical	Pass
1	1599.500	44.37	-17.34	74.0	-29.63	Peak	362.00	150	Vertical	Pass
2**	2411.000	102.08	-12.26	54.0	48.08	AV	224.00	150	Vertical	N/A
2	2411.000	104.63	-12.26	74.0	30.63	Peak	224.00	150	Vertical	N/A
3**	3646.000	30.99	-6.22	54.0	-23.01	AV	360.00	150	Vertical	Pass
3	3646.000	46.62	-6.22	74.0	-27.38	Peak	360.00	150	Vertical	Pass
4**	4824.000	42.67	-3.36	54.0	-11.33	AV	-1.00	150	Vertical	Pass
4	4824.000	58.03	-3.36	74.0	-15.97	Peak	-1.00	150	Vertical	Pass
5**	7733.125	36.86	-2.18	54.0	-17.14	AV	193.00	150	Vertical	Pass
5	7733.125	47.75	-2.18	74.0	-26.25	Peak	193.00	150	Vertical	Pass
6**	16245.188	43.16	2.22	54.0	-10.84	AV	262.00	150	Vertical	Pass
6	16245.188	55.45	2.22	74.0	-18.55	Peak	262.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1703.500	24.62	-17.07	54.0	-29.38	AV	39.00	150	Horizontal	Pass
1	1703.500	41.83	-17.07	74.0	-32.17	Peak	39.00	150	Horizontal	Pass
2**	2411.000	94.48	-12.26	54.0	40.48	AV	205.00	150	Horizontal	N/A
2	2411.000	97.04	-12.26	74.0	23.04	Peak	205.00	150	Horizontal	N/A
3**	3701.000	30.39	-5.94	54.0	-23.61	AV	122.00	150	Horizontal	Pass
3	3701.000	46.48	-5.94	74.0	-27.52	Peak	122.00	150	Horizontal	Pass
4**	4824.000	37.81	-3.36	54.0	-16.19	AV	336.00	150	Horizontal	Pass
4	4824.000	52.86	-3.36	74.0	-21.14	Peak	336.00	150	Horizontal	Pass
5**	7255.875	36.09	-2.82	54.0	-17.91	AV	281.00	150	Horizontal	Pass
5	7255.875	47.82	-2.82	74.0	-26.18	Peak	281.00	150	Horizontal	Pass
6**	14105.813	40.80	2.03	54.0	-13.20	AV	79.00	150	Horizontal	Pass
6	14105.813	52.04	2.03	74.0	-21.96	Peak	79.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1595.500	23.87	-17.27	54.0	-30.13	AV	101.00	150	Vertical	Pass
1	1595.500	41.42	-17.27	74.0	-32.58	Peak	101.00	150	Vertical	Pass
2**	2438.000	102.03	-12.51	54.0	48.03	AV	2.00	150	Vertical	N/A
2	2438.000	104.61	-12.51	74.0	30.61	Peak	2.00	150	Vertical	N/A
3**	3841.000	30.62	-5.49	54.0	-23.38	AV	36.00	150	Vertical	Pass
3	3841.000	48.27	-5.49	74.0	-25.73	Peak	36.00	150	Vertical	Pass
4**	4874.000	40.73	-3.32	54.0	-13.27	AV	167.00	150	Vertical	Pass
4	4874.000	55.06	-3.32	74.0	-18.94	Peak	167.00	150	Vertical	Pass
5**	7553.438	37.38	-1.79	54.0	-16.62	AV	268.00	150	Vertical	Pass
5	7553.438	48.05	-1.79	74.0	-25.95	Peak	268.00	150	Vertical	Pass
6**	16195.313	43.52	2.72	54.0	-10.48	AV	177.00	150	Vertical	Pass
6	16195.313	54.63	2.72	74.0	-19.37	Peak	177.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.500	26.95	-16.91	54.0	-27.05	AV	15.00	150	Horizontal	Pass
1	1704.500	40.29	-16.91	74.0	-33.71	Peak	15.00	150	Horizontal	Pass
2**	2436.000	94.40	-12.64	54.0	40.40	AV	36.00	150	Horizontal	N/A
2	2436.000	96.83	-12.64	74.0	22.83	Peak	36.00	150	Horizontal	N/A
3**	4874.000	34.85	-3.32	54.0	-19.15	AV	330.00	150	Horizontal	Pass
3	4874.000	50.74	-3.32	74.0	-23.26	Peak	330.00	150	Horizontal	Pass
4**	5972.000	36.24	-0.95	54.0	-17.76	AV	337.00	150	Horizontal	Pass
4	5972.000	52.98	-0.95	74.0	-21.02	Peak	337.00	150	Horizontal	Pass
5**	7549.125	37.01	-2.06	54.0	-16.99	AV	173.00	150	Horizontal	Pass
5	7549.125	47.59	-2.06	74.0	-26.41	Peak	173.00	150	Horizontal	Pass
6**	15115.125	42.20	2.08	54.0	-11.80	AV	5.00	150	Horizontal	Pass
6	15115.125	53.10	2.08	74.0	-20.90	Peak	5.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.500	23.65	-17.42	54.0	-30.35	AV	89.00	150	Vertical	Pass
1	1598.500	40.72	-17.42	74.0	-33.28	Peak	89.00	150	Vertical	Pass
2**	2461.000	101.96	-12.62	54.0	47.96	AV	21.00	150	Vertical	N/A
2	2461.000	104.32	-12.62	74.0	30.32	Peak	21.00	150	Vertical	N/A
3**	3653.000	31.93	-6.31	54.0	-22.07	AV	170.00	150	Vertical	Pass
3	3653.000	46.94	-6.31	74.0	-27.06	Peak	170.00	150	Vertical	Pass
4**	4924.000	36.48	-2.55	54.0	-17.52	AV	0.00	150	Vertical	Pass
4	4924.000	54.43	-2.55	74.0	-19.57	Peak	0.00	150	Vertical	Pass
5**	7563.500	38.04	-2.13	54.0	-15.96	AV	230.00	150	Vertical	Pass
5	7563.500	48.06	-2.13	74.0	-25.94	Peak	230.00	150	Vertical	Pass
6**	14987.813	42.37	1.81	54.0	-11.63	AV	125.00	150	Vertical	Pass
6	14987.813	54.08	1.81	74.0	-19.92	Peak	125.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11b High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.000	24.98	-16.99	54.0	-29.02	AV	45.00	150	Horizontal	Pass
1	1704.000	40.36	-16.99	74.0	-33.64	Peak	45.00	150	Horizontal	Pass
2**	2463.000	94.82	-12.56	54.0	40.82	AV	215.00	150	Horizontal	N/A
2	2463.000	97.57	-12.56	74.0	23.57	Peak	215.00	150	Horizontal	N/A
3**	3655.000	31.25	-6.42	54.0	-22.75	AV	116.00	150	Horizontal	Pass
3	3655.000	46.72	-6.42	74.0	-27.28	Peak	116.00	150	Horizontal	Pass
4**	4924.000	34.27	-2.55	54.0	-19.73	AV	0.00	150	Horizontal	Pass
4	4924.000	50.95	-2.55	74.0	-23.05	Peak	0.00	150	Horizontal	Pass
5**	7899.875	37.15	-2.47	54.0	-16.85	AV	36.00	150	Horizontal	Pass
5	7899.875	48.53	-2.47	74.0	-25.47	Peak	36.00	150	Horizontal	Pass
6**	14405.063	42.87	2.53	54.0	-11.13	AV	360.00	150	Horizontal	Pass
6	14405.063	53.43	2.53	74.0	-20.57	Peak	360.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1400.000	22.73	-17.22	54.0	-31.27	AV	115.00	150	Vertical	Pass
1	1400.000	40.57	-17.22	74.0	-33.43	Peak	115.00	150	Vertical	Pass
2**	2419.000	100.08	-12.36	54.0	46.08	AV	320.00	150	Vertical	N/A
2	2419.000	108.59	-12.36	74.0	34.59	Peak	320.00	150	Vertical	N/A
3**	3649.000	31.30	-6.36	54.0	-22.70	AV	225.00	150	Vertical	Pass
3	3649.000	47.25	-6.36	74.0	-26.75	Peak	225.00	150	Vertical	Pass
4**	4820.000	38.43	-3.00	54.0	-15.57	AV	350.00	150	Vertical	Pass
4	4820.000	54.86	-3.00	74.0	-19.14	Peak	350.00	150	Vertical	Pass
5**	7543.375	36.97	-2.28	54.0	-17.03	AV	234.00	150	Vertical	Pass
5	7543.375	47.63	-2.28	74.0	-26.37	Peak	234.00	150	Vertical	Pass
6**	14785.688	42.22	1.36	54.0	-11.78	AV	169.00	150	Vertical	Pass
6	14785.688	54.11	1.36	74.0	-19.89	Peak	169.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.500	25.76	-16.91	54.0	-28.24	AV	360.00	150	Horizontal	Pass
1	1704.500	40.32	-16.91	74.0	-33.68	Peak	360.00	150	Horizontal	Pass
2**	2417.000	92.27	-12.44	54.0	38.27	AV	11.00	150	Horizontal	N/A
2	2417.000	100.33	-12.44	74.0	26.33	Peak	11.00	150	Horizontal	N/A
3**	3650.000	31.35	-6.38	54.0	-22.65	AV	52.00	150	Horizontal	Pass
3	3650.000	46.43	-6.38	74.0	-27.57	Peak	52.00	150	Horizontal	Pass
4**	5818.000	43.09	-2.30	54.0	-10.91	AV	44.00	150	Horizontal	Pass
4	5818.000	54.42	-2.30	74.0	-19.58	Peak	44.00	150	Horizontal	Pass
5**	7572.125	36.91	-2.49	54.0	-17.09	AV	115.00	150	Horizontal	Pass
5	7572.125	48.51	-2.49	74.0	-25.49	Peak	115.00	150	Horizontal	Pass
6**	14171.437	41.38	1.86	54.0	-12.62	AV	83.00	150	Horizontal	Pass
6	14171.437	52.82	1.86	74.0	-21.18	Peak	83.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.000	24.05	-17.42	54.0	-29.95	AV	350.00	150	Vertical	Pass
1	1598.000	44.96	-17.42	74.0	-29.04	Peak	350.00	150	Vertical	Pass
2**	2439.500	99.63	-12.48	54.0	45.63	AV	354.00	150	Vertical	N/A
2	2439.500	107.76	-12.48	74.0	33.76	Peak	354.00	150	Vertical	N/A
3**	3660.000	31.27	-6.92	54.0	-22.73	AV	217.00	150	Vertical	Pass
3	3660.000	46.84	-6.92	74.0	-27.16	Peak	217.00	150	Vertical	Pass
4**	4864.000	35.01	-2.97	54.0	-18.99	AV	171.00	150	Vertical	Pass
4	4864.000	50.98	-2.97	74.0	-23.02	Peak	171.00	150	Vertical	Pass
5**	8184.500	38.00	-1.78	54.0	-16.00	AV	212.00	150	Vertical	Pass
5	8184.500	48.80	-1.78	74.0	-25.20	Peak	212.00	150	Vertical	Pass
6**	14293.500	41.12	1.79	54.0	-12.88	AV	281.00	150	Vertical	Pass
6	14293.500	53.27	1.79	74.0	-20.73	Peak	281.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1703.000	26.71	-17.15	54.0	-27.29	AV	305.00	150	Horizontal	Pass
1	1703.000	40.62	-17.15	74.0	-33.38	Peak	305.00	150	Horizontal	Pass
2**	2440.500	91.76	-12.55	54.0	37.76	AV	44.00	150	Horizontal	N/A
2	2440.500	100.07	-12.55	74.0	26.07	Peak	44.00	150	Horizontal	N/A
3**	3595.000	30.01	-7.05	54.0	-23.99	AV	203.00	150	Horizontal	Pass
3	3595.000	46.71	-7.05	74.0	-27.29	Peak	203.00	150	Horizontal	Pass
4**	5972.000	36.26	-0.95	54.0	-17.74	AV	93.00	150	Horizontal	Pass
4	5972.000	52.63	-0.95	74.0	-21.37	Peak	93.00	150	Horizontal	Pass
5**	7339.250	36.27	-3.56	54.0	-17.73	AV	92.00	150	Horizontal	Pass
5	7339.250	47.73	-3.56	74.0	-26.27	Peak	92.00	150	Horizontal	Pass
6**	13054.500	40.03	1.74	54.0	-13.97	AV	358.00	150	Horizontal	Pass
6	13054.500	51.81	1.74	74.0	-22.19	Peak	358.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1594.500	24.69	-17.30	54.0	-29.31	AV	305.00	150	Vertical	Pass
1	1594.500	45.65	-17.30	74.0	-28.35	Peak	305.00	150	Vertical	Pass
2**	2469.500	99.19	-12.13	54.0	45.19	AV	338.00	150	Vertical	N/A
2	2469.500	108.12	-12.13	74.0	34.12	Peak	338.00	150	Vertical	N/A
3**	4003.000	30.96	-5.04	54.0	-23.04	AV	228.00	150	Vertical	Pass
3	4003.000	47.71	-5.04	74.0	-26.29	Peak	228.00	150	Vertical	Pass
4**	5954.000	36.83	-1.11	54.0	-17.17	AV	24.00	150	Vertical	Pass
4	5954.000	52.92	-1.11	74.0	-21.08	Peak	24.00	150	Vertical	Pass
5**	7599.437	35.83	-2.93	54.0	-18.17	AV	201.00	150	Vertical	Pass
5	7599.437	48.11	-2.93	74.0	-25.89	Peak	201.00	150	Vertical	Pass
6**	15750.375	42.46	1.88	54.0	-11.54	AV	231.00	150	Vertical	Pass
6	15750.375	54.39	1.88	74.0	-19.61	Peak	231.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11g High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.000	23.99	-17.38	54.0	-30.01	AV	168.00	150	Horizontal	Pass
1	1599.000	43.26	-17.38	74.0	-30.74	Peak	168.00	150	Horizontal	Pass
2**	2457.000	92.29	-12.73	54.0	38.29	AV	42.00	150	Horizontal	N/A
2	2457.000	100.16	-12.73	74.0	26.16	Peak	42.00	150	Horizontal	N/A
3**	3708.000	30.64	-6.51	54.0	-23.36	AV	137.00	150	Horizontal	Pass
3	3708.000	47.17	-6.51	74.0	-26.83	Peak	137.00	150	Horizontal	Pass
4**	5965.000	36.57	-1.11	54.0	-17.43	AV	360.00	150	Horizontal	Pass
4	5965.000	52.41	-1.11	74.0	-21.59	Peak	360.00	150	Horizontal	Pass
5**	7823.688	36.78	-2.34	54.0	-17.22	AV	224.00	150	Horizontal	Pass
5	7823.688	48.18	-2.34	74.0	-25.82	Peak	224.00	150	Horizontal	Pass
6**	12607.688	39.78	2.18	54.0	-14.22	AV	323.00	150	Horizontal	Pass
6	12607.688	51.90	2.18	74.0	-22.10	Peak	323.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.000	26.94	-17.42	54.0	-27.06	AV	358.00	150	Vertical	Pass
1	1598.000	46.58	-17.42	74.0	-27.42	Peak	358.00	150	Vertical	Pass
2**	2408.500	99.80	-11.95	54.0	45.80	AV	351.00	150	Vertical	N/A
2	2408.500	108.59	-11.95	74.0	34.59	Peak	351.00	150	Vertical	N/A
3**	3653.000	31.06	-6.31	54.0	-22.94	AV	307.00	150	Vertical	Pass
3	3653.000	47.00	-6.31	74.0	-27.00	Peak	307.00	150	Vertical	Pass
4**	4819.000	39.08	-3.01	54.0	-14.92	AV	3.00	150	Vertical	Pass
4	4819.000	53.51	-3.01	74.0	-20.49	Peak	3.00	150	Vertical	Pass
5**	7575.000	37.18	-2.54	54.0	-16.82	AV	360.00	150	Vertical	Pass
5	7575.000	48.06	-2.54	74.0	-25.94	Peak	360.00	150	Vertical	Pass
6**	15213.563	41.67	1.62	54.0	-12.33	AV	82.00	150	Vertical	Pass
6	15213.563	53.77	1.62	74.0	-20.23	Peak	82.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1705.000	25.57	-16.99	54.0	-28.43	AV	1.00	150	Horizontal	Pass
1	1705.000	42.63	-16.99	74.0	-31.37	Peak	1.00	150	Horizontal	Pass
2**	2411.000	90.70	-12.26	54.0	36.70	AV	40.00	150	Horizontal	N/A
2	2411.000	99.32	-12.26	74.0	25.32	Peak	40.00	150	Horizontal	N/A
3**	3658.000	31.41	-6.84	54.0	-22.59	AV	176.00	150	Horizontal	Pass
3	3658.000	47.41	-6.84	74.0	-26.59	Peak	176.00	150	Horizontal	Pass
4**	5788.000	35.70	-2.02	54.0	-18.30	AV	187.00	150	Horizontal	Pass
4	5788.000	51.26	-2.02	74.0	-22.74	Peak	187.00	150	Horizontal	Pass
5**	7622.437	36.39	-2.91	54.0	-17.61	AV	58.00	150	Horizontal	Pass
5	7622.437	47.93	-2.91	74.0	-26.07	Peak	58.00	150	Horizontal	Pass
6**	14759.437	41.52	1.47	54.0	-12.48	AV	0.00	150	Horizontal	Pass
6	14759.437	53.56	1.47	74.0	-20.44	Peak	0.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.500	23.75	-17.29	54.0	-30.25	AV	31.00	150	Vertical	Pass
1	1593.500	47.24	-17.29	74.0	-26.76	Peak	31.00	150	Vertical	Pass
2**	2438.500	99.52	-12.50	54.0	45.52	AV	359.00	150	Vertical	N/A
2	2438.500	108.22	-12.50	74.0	34.22	Peak	359.00	150	Vertical	N/A
3**	3220.000	29.53	-6.96	54.0	-24.47	AV	231.00	150	Vertical	Pass
3	3220.000	45.60	-6.96	74.0	-28.40	Peak	231.00	150	Vertical	Pass
4**	4878.000	36.28	-3.11	54.0	-17.72	AV	0.00	150	Vertical	Pass
4	4878.000	49.78	-3.11	74.0	-24.22	Peak	0.00	150	Vertical	Pass
5**	8499.313	37.63	-0.91	54.0	-16.37	AV	318.00	150	Vertical	Pass
5	8499.313	49.05	-0.91	74.0	-24.95	Peak	318.00	150	Vertical	Pass
6**	14731.875	41.99	1.80	54.0	-12.01	AV	2.00	150	Vertical	Pass
6	14731.875	53.56	1.80	74.0	-20.44	Peak	2.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1705.000	26.57	-16.99	54.0	-27.43	AV	14.00	150	Horizontal	Pass
1	1705.000	40.32	-16.99	74.0	-33.68	Peak	14.00	150	Horizontal	Pass
2**	2438.000	90.66	-12.51	54.0	36.66	AV	204.00	150	Horizontal	N/A
2	2438.000	99.35	-12.51	74.0	25.35	Peak	204.00	150	Horizontal	N/A
3**	3592.000	29.84	-7.06	54.0	-24.16	AV	248.00	150	Horizontal	Pass
3	3592.000	46.48	-7.06	74.0	-27.52	Peak	248.00	150	Horizontal	Pass
4**	5130.000	35.00	-2.27	54.0	-19.00	AV	86.00	150	Horizontal	Pass
4	5130.000	50.12	-2.27	74.0	-23.88	Peak	86.00	150	Horizontal	Pass
5**	8483.500	38.00	-0.92	54.0	-16.00	AV	249.00	150	Horizontal	Pass
5	8483.500	49.05	-0.92	74.0	-24.95	Peak	249.00	150	Horizontal	Pass
6**	15186.000	42.22	1.85	54.0	-11.78	AV	282.00	150	Horizontal	Pass
6	15186.000	53.77	1.85	74.0	-20.23	Peak	282.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.500	23.37	-17.42	54.0	-30.63	AV	351.00	150	Vertical	Pass
1	1598.500	46.77	-17.42	74.0	-27.23	Peak	351.00	150	Vertical	Pass
2**	2463.500	99.17	-12.59	54.0	45.17	AV	1.00	150	Vertical	N/A
2	2463.500	107.79	-12.59	74.0	33.79	Peak	1.00	150	Vertical	N/A
3**	4916.000	34.61	-2.44	54.0	-19.39	AV	1.00	150	Vertical	Pass
3	4916.000	50.72	-2.44	74.0	-23.28	Peak	1.00	150	Vertical	Pass
4**	6000.000	36.14	-1.37	54.0	-17.86	AV	343.00	150	Vertical	Pass
4	6000.000	51.66	-1.37	74.0	-22.34	Peak	343.00	150	Vertical	Pass
5**	8400.125	37.84	-0.41	54.0	-16.16	AV	164.00	150	Vertical	Pass
5	8400.125	48.80	-0.41	74.0	-25.20	Peak	164.00	150	Vertical	Pass
6**	16217.625	43.64	2.24	54.0	-10.36	AV	81.00	150	Vertical	Pass
6	16217.625	54.70	2.24	74.0	-19.30	Peak	81.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.500	23.59	-17.28	54.0	-30.41	AV	64.00	150	Horizontal	Pass
1	1596.500	43.30	-17.28	74.0	-30.70	Peak	64.00	150	Horizontal	Pass
2**	2463.500	91.15	-12.59	54.0	37.15	AV	39.00	150	Horizontal	N/A
2	2463.500	100.29	-12.59	74.0	26.29	Peak	39.00	150	Horizontal	N/A
3**	3644.000	31.58	-6.38	54.0	-22.42	AV	221.00	150	Horizontal	Pass
3	3644.000	46.60	-6.38	74.0	-27.40	Peak	221.00	150	Horizontal	Pass
4**	5410.000	34.81	-2.69	54.0	-19.19	AV	112.00	150	Horizontal	Pass
4	5410.000	50.55	-2.69	74.0	-23.45	Peak	112.00	150	Horizontal	Pass
5**	7553.438	37.02	-1.79	54.0	-16.98	AV	31.00	150	Horizontal	Pass
5	7553.438	47.97	-1.79	74.0	-26.03	Peak	31.00	150	Horizontal	Pass
6**	14183.250	41.81	2.26	54.0	-12.19	AV	173.00	150	Horizontal	Pass
6	14183.250	53.01	2.26	74.0	-20.99	Peak	173.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.000	23.72	-17.26	54.0	-30.28	AV	144.00	150	Vertical	Pass
1	1593.000	40.72	-17.26	74.0	-33.28	Peak	144.00	150	Vertical	Pass
2**	2435.500	97.19	-12.67	54.0	43.19	AV	328.00	150	Vertical	N/A
2	2435.500	105.34	-12.67	74.0	31.34	Peak	328.00	150	Vertical	N/A
3**	3657.000	30.93	-6.75	54.0	-23.07	AV	26.00	150	Vertical	Pass
3	3657.000	46.98	-6.75	74.0	-27.02	Peak	26.00	150	Vertical	Pass
4**	4832.000	33.78	-3.24	54.0	-20.22	AV	335.00	150	Vertical	Pass
4	4832.000	51.19	-3.24	74.0	-22.81	Peak	335.00	150	Vertical	Pass
5**	7639.688	36.40	-2.68	54.0	-17.60	AV	334.00	150	Vertical	Pass
5	7639.688	48.19	-2.68	74.0	-25.81	Peak	334.00	150	Vertical	Pass
6**	14629.500	41.86	1.34	54.0	-12.14	AV	262.00	150	Vertical	Pass
6	14629.500	52.99	1.34	74.0	-21.01	Peak	262.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1704.500	25.94	-16.91	54.0	-28.06	AV	360.00	150	Horizontal	Pass
1	1704.500	40.46	-16.91	74.0	-33.54	Peak	360.00	150	Horizontal	Pass
2**	2434.500	88.78	-12.72	54.0	34.78	AV	204.00	150	Horizontal	N/A
2	2434.500	96.42	-12.72	74.0	22.42	Peak	204.00	150	Horizontal	N/A
3**	3662.000	30.89	-6.88	54.0	-23.11	AV	360.00	150	Horizontal	Pass
3	3662.000	46.32	-6.88	74.0	-27.68	Peak	360.00	150	Horizontal	Pass
4**	6275.000	36.94	-0.09	54.0	-17.06	AV	277.00	150	Horizontal	Pass
4	6275.000	53.18	-0.09	74.0	-20.82	Peak	277.00	150	Horizontal	Pass
5**	7573.562	36.74	-2.44	54.0	-17.26	AV	357.00	150	Horizontal	Pass
5	7573.562	47.77	-2.44	74.0	-26.23	Peak	357.00	150	Horizontal	Pass
6**	15150.562	42.56	1.81	54.0	-11.44	AV	154.00	150	Horizontal	Pass
6	15150.562	54.24	1.81	74.0	-19.76	Peak	154.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.000	23.26	-17.26	54.0	-30.74	AV	60.00	150	Vertical	Pass
1	1593.000	45.52	-17.26	74.0	-28.48	Peak	60.00	150	Vertical	Pass
2**	2446.500	96.50	-12.78	54.0	42.50	AV	1.00	150	Vertical	N/A
2	2446.500	105.01	-12.78	74.0	31.01	Peak	1.00	150	Vertical	N/A
3**	4880.000	34.69	-3.14	54.0	-19.31	AV	191.00	150	Vertical	Pass
3	4880.000	49.33	-3.14	74.0	-24.67	Peak	191.00	150	Vertical	Pass
4**	6019.000	36.13	-1.35	54.0	-17.87	AV	94.00	150	Vertical	Pass
4	6019.000	51.76	-1.35	74.0	-22.24	Peak	94.00	150	Vertical	Pass
5**	8839.999	37.83	-0.36	54.0	-16.17	AV	306.00	150	Vertical	Pass
5	8839.999	48.69	-0.36	74.0	-25.31	Peak	306.00	150	Vertical	Pass
6**	14428.687	42.64	2.54	54.0	-11.36	AV	0.00	150	Vertical	Pass
6	14428.687	52.85	2.54	74.0	-21.15	Peak	0.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.500	25.31	-17.34	54.0	-28.69	AV	313.00	150	Horizontal	Pass
1	1599.500	46.20	-17.34	74.0	-27.80	Peak	313.00	150	Horizontal	Pass
2**	2445.000	88.45	-12.65	54.0	34.45	AV	34.00	150	Horizontal	N/A
2	2445.000	97.34	-12.65	74.0	23.34	Peak	34.00	150	Horizontal	N/A
3**	3516.000	29.63	-6.67	54.0	-24.37	AV	172.00	150	Horizontal	Pass
3	3516.000	45.51	-6.67	74.0	-28.49	Peak	172.00	150	Horizontal	Pass
4**	5034.000	34.22	-3.12	54.0	-19.78	AV	316.00	150	Horizontal	Pass
4	5034.000	50.30	-3.12	74.0	-23.70	Peak	316.00	150	Horizontal	Pass
5**	7612.375	36.75	-2.80	54.0	-17.25	AV	333.00	150	Horizontal	Pass
5	7612.375	48.08	-2.80	74.0	-25.92	Peak	333.00	150	Horizontal	Pass
6**	16241.250	43.20	2.28	54.0	-10.80	AV	156.00	150	Horizontal	Pass
6	16241.250	55.11	2.28	74.0	-18.89	Peak	156.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.000	23.69	-17.42	54.0	-30.31	AV	137.00	150	Vertical	Pass
1	1598.000	44.85	-17.42	74.0	-29.15	Peak	137.00	150	Vertical	Pass
2**	2440.000	96.91	-12.51	54.0	42.91	AV	345.00	150	Vertical	N/A
2	2440.000	104.73	-12.51	74.0	30.73	Peak	345.00	150	Vertical	N/A
3**	3654.000	31.44	-6.36	54.0	-22.56	AV	59.00	150	Vertical	Pass
3	3654.000	46.68	-6.36	74.0	-27.32	Peak	59.00	150	Vertical	Pass
4**	5054.000	34.48	-2.73	54.0	-19.52	AV	206.00	150	Vertical	Pass
4	5054.000	50.71	-2.73	74.0	-23.29	Peak	206.00	150	Vertical	Pass
5**	8308.125	38.59	-0.68	54.0	-15.41	AV	30.00	150	Vertical	Pass
5	8308.125	48.87	-0.68	74.0	-25.13	Peak	30.00	150	Vertical	Pass
6**	14479.875	41.40	2.03	54.0	-12.60	AV	3.00	150	Vertical	Pass
6	14479.875	53.45	2.03	74.0	-20.55	Peak	3.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1597.500	23.95	-17.38	54.0	-30.05	AV	315.00	150	Horizontal	Pass
1	1597.500	43.75	-17.38	74.0	-30.25	Peak	315.00	150	Horizontal	Pass
2**	2447.000	89.17	-12.78	54.0	35.17	AV	35.00	150	Horizontal	N/A
2	2447.000	96.71	-12.78	74.0	22.71	Peak	35.00	150	Horizontal	N/A
3**	3654.000	31.13	-6.36	54.0	-22.87	AV	64.00	150	Horizontal	Pass
3	3654.000	47.62	-6.36	74.0	-26.38	Peak	64.00	150	Horizontal	Pass
4**	4920.000	34.12	-2.57	54.0	-19.88	AV	241.00	150	Horizontal	Pass
4	4920.000	50.11	-2.57	74.0	-23.89	Peak	241.00	150	Horizontal	Pass
5**	7554.875	37.54	-1.66	54.0	-16.46	AV	250.00	150	Horizontal	Pass
5	7554.875	47.53	-1.66	74.0	-26.47	Peak	250.00	150	Horizontal	Pass
6**	14197.687	41.69	2.40	54.0	-12.31	AV	48.00	150	Horizontal	Pass
6	14197.687	53.09	2.40	74.0	-20.91	Peak	48.00	150	Horizontal	Pass

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1 GHz to 12.75 GHz, ANT V 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.500	24.33	-17.42	54.0	-29.67	AV	348.00	150	Vertical	Pass
1	1598.500	45.61	-17.42	74.0	-28.39	Peak	348.00	150	Vertical	Pass
2**	2408.500	100.61	-11.95	54.0	46.61	AV	248.00	150	Vertical	N/A
2	2408.500	109.19	-11.95	74.0	35.19	Peak	248.00	150	Vertical	N/A
3**	3660.000	31.51	-6.92	54.0	-22.49	AV	304.00	150	Vertical	Pass
3	3660.000	46.70	-6.92	74.0	-27.30	Peak	304.00	150	Vertical	Pass
4**	4816.000	35.31	-3.36	54.0	-18.69	AV	342.00	150	Vertical	Pass
4	4816.000	56.71	-3.36	74.0	-17.29	Peak	342.00	150	Vertical	Pass
5**	7562.062	37.14	-2.04	54.0	-16.86	AV	26.00	150	Vertical	Pass
5	7562.062	48.37	-2.04	74.0	-25.63	Peak	26.00	150	Vertical	Pass
6**	11490.750	38.67	0.32	54.0	-15.33	AV	269.00	150	Vertical	Pass
6	11490.750	50.96	0.32	74.0	-23.04	Peak	269.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.500	23.35	-17.42	54.0	-30.65	AV	308.00	150	Horizontal	Pass
1	1598.500	41.52	-17.42	74.0	-32.48	Peak	308.00	150	Horizontal	Pass
2**	2409.000	100.19	-12.06	54.0	46.19	AV	32.00	150	Horizontal	N/A
2	2409.000	108.01	-12.06	74.0	34.01	Peak	32.00	150	Horizontal	N/A
3**	3649.000	31.58	-6.36	54.0	-22.42	AV	278.00	150	Horizontal	Pass
3	3649.000	47.48	-6.36	74.0	-26.52	Peak	278.00	150	Horizontal	Pass
4**	5184.000	34.75	-2.77	54.0	-19.25	AV	300.00	150	Horizontal	Pass
4	5184.000	50.36	-2.77	74.0	-23.64	Peak	300.00	150	Horizontal	Pass
5**	7543.375	36.96	-2.28	54.0	-17.04	AV	292.00	150	Horizontal	Pass
5	7543.375	47.59	-2.28	74.0	-26.41	Peak	292.00	150	Horizontal	Pass
6**	13011.188	40.16	1.85	54.0	-13.84	AV	162.00	150	Horizontal	Pass
6	13011.188	51.44	1.85	74.0	-22.56	Peak	162.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.000	23.55	-17.25	54.0	-30.45	AV	360.00	150	Vertical	Pass
1	1596.000	47.23	-17.25	74.0	-26.77	Peak	360.00	150	Vertical	Pass
2**	2438.500	100.36	-12.50	54.0	46.36	AV	0.00	150	Vertical	N/A
2	2438.500	108.30	-12.50	74.0	34.30	Peak	0.00	150	Vertical	N/A
3**	4864.000	35.26	-2.97	54.0	-18.74	AV	360.00	150	Vertical	Pass
3	4864.000	50.81	-2.97	74.0	-23.19	Peak	360.00	150	Vertical	Pass
4**	6001.000	49.60	-1.35	54.0	-4.40	AV	228.00	150	Vertical	Pass
4	6001.000	48.78	-1.35	74.0	-25.22	Peak	228.00	150	Vertical	Pass
5**	8104.000	36.87	-2.13	54.0	-17.13	AV	307.00	150	Vertical	Pass
5	8104.000	47.79	-2.13	74.0	-26.21	Peak	307.00	150	Vertical	Pass
6**	13840.687	41.02	2.53	54.0	-12.98	AV	93.00	150	Vertical	Pass
6	13840.687	53.06	2.53	74.0	-20.94	Peak	93.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1595.500	23.62	-17.27	54.0	-30.38	AV	169.00	150	Horizontal	Pass
1	1595.500	44.76	-17.27	74.0	-29.24	Peak	169.00	150	Horizontal	Pass
2**	2441.000	98.81	-12.60	54.0	44.81	AV	161.00	150	Horizontal	N/A
2	2441.000	106.32	-12.60	74.0	32.32	Peak	161.00	150	Horizontal	N/A
3**	3648.000	31.39	-6.30	54.0	-22.61	AV	267.00	150	Horizontal	Pass
3	3648.000	46.45	-6.30	74.0	-27.55	Peak	267.00	150	Horizontal	Pass
4**	5004.000	34.63	-2.90	54.0	-19.37	AV	30.00	150	Horizontal	Pass
4	5004.000	50.20	-2.90	74.0	-23.80	Peak	30.00	150	Horizontal	Pass
5**	7537.625	36.58	-2.71	54.0	-17.42	AV	289.00	150	Horizontal	Pass
5	7537.625	47.76	-2.71	74.0	-26.24	Peak	289.00	150	Horizontal	Pass
6**	13466.625	40.39	1.02	54.0	-13.61	AV	65.00	150	Horizontal	Pass
6	13466.625	52.27	1.02	74.0	-21.73	Peak	65.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1593.000	23.19	-17.26	54.0	-30.81	AV	309.00	150	Vertical	Pass
1	1593.000	48.48	-17.26	74.0	-25.52	Peak	309.00	150	Vertical	Pass
2**	2463.500	100.01	-12.59	54.0	46.01	AV	257.00	150	Vertical	N/A
2	2463.500	108.54	-12.59	74.0	34.54	Peak	257.00	150	Vertical	N/A
3**	3696.000	31.18	-6.09	54.0	-22.82	AV	305.00	150	Vertical	Pass
3	3696.000	46.61	-6.09	74.0	-27.39	Peak	305.00	150	Vertical	Pass
4**	4993.000	34.61	-2.96	54.0	-19.39	AV	253.00	150	Vertical	Pass
4	4993.000	49.95	-2.96	74.0	-24.05	Peak	253.00	150	Vertical	Pass
5**	7369.438	36.93	-3.50	54.0	-17.07	AV	130.00	150	Vertical	Pass
5	7369.438	47.93	-3.50	74.0	-26.07	Peak	130.00	150	Vertical	Pass
6**	14008.688	40.74	2.24	54.0	-13.26	AV	19.00	150	Vertical	Pass
6	14008.688	52.34	2.24	74.0	-21.66	Peak	19.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1594.500	23.66	-17.30	54.0	-30.34	AV	309.00	150	Horizontal	Pass
1	1594.500	43.46	-17.30	74.0	-30.54	Peak	309.00	150	Horizontal	Pass
2**	2458.500	98.82	-12.87	54.0	44.82	AV	36.00	150	Horizontal	N/A
2	2458.500	106.28	-12.87	74.0	32.28	Peak	36.00	150	Horizontal	N/A
3**	3218.000	29.79	-6.77	54.0	-24.21	AV	39.00	150	Horizontal	Pass
3	3218.000	45.49	-6.77	74.0	-28.51	Peak	39.00	150	Horizontal	Pass
4**	5096.000	34.02	-2.85	54.0	-19.98	AV	64.00	150	Horizontal	Pass
4	5096.000	50.50	-2.85	74.0	-23.50	Peak	64.00	150	Horizontal	Pass
5**	7914.250	37.00	-2.16	54.0	-17.00	AV	255.00	150	Horizontal	Pass
5	7914.250	48.60	-2.16	74.0	-25.40	Peak	255.00	150	Horizontal	Pass
6**	13793.438	41.52	2.68	54.0	-12.48	AV	220.00	150	Horizontal	Pass
6	13793.438	52.75	2.68	74.0	-21.25	Peak	220.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1597.000	25.84	-17.33	54.0	-28.16	AV	36.00	150	Vertical	Pass
1	1597.000	45.33	-17.33	74.0	-28.67	Peak	36.00	150	Vertical	Pass
2**	2431.000	97.35	-12.71	54.0	43.35	AV	354.00	150	Vertical	N/A
2	2431.000	105.66	-12.71	74.0	31.66	Peak	354.00	150	Vertical	N/A
3**	4840.000	34.51	-3.12	54.0	-19.49	AV	179.00	150	Vertical	Pass
3	4840.000	50.11	-3.12	74.0	-23.89	Peak	179.00	150	Vertical	Pass
4**	6676.000	39.18	0.41	54.0	-14.82	AV	262.00	150	Vertical	Pass
4	6676.000	53.23	0.41	74.0	-20.77	Peak	262.00	150	Vertical	Pass
5**	8424.563	37.10	-1.22	54.0	-16.90	AV	142.00	150	Vertical	Pass
5	8424.563	48.85	-1.22	74.0	-25.15	Peak	142.00	150	Vertical	Pass
6**	12560.250	39.22	1.85	54.0	-14.78	AV	315.00	150	Vertical	Pass
6	12560.250	51.67	1.85	74.0	-22.33	Peak	315.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1596.000	23.73	-17.25	54.0	-30.27	AV	167.00	150	Horizontal	Pass
1	1596.000	44.68	-17.25	74.0	-29.32	Peak	167.00	150	Horizontal	Pass
2**	2419.500	96.51	-12.31	54.0	42.51	AV	37.00	150	Horizontal	N/A
2	2419.500	104.81	-12.31	74.0	30.81	Peak	37.00	150	Horizontal	N/A
3**	3553.000	30.61	-6.99	54.0	-23.39	AV	306.00	150	Horizontal	Pass
3	3553.000	46.76	-6.99	74.0	-27.24	Peak	306.00	150	Horizontal	Pass
4**	4930.000	34.08	-2.71	54.0	-19.92	AV	297.00	150	Horizontal	Pass
4	4930.000	49.73	-2.71	74.0	-24.27	Peak	297.00	150	Horizontal	Pass
5**	7562.062	36.99	-2.04	54.0	-17.01	AV	2.00	150	Horizontal	Pass
5	7562.062	47.81	-2.04	74.0	-26.19	Peak	2.00	150	Horizontal	Pass
6**	14981.250	42.24	1.86	54.0	-11.76	AV	17.00	150	Horizontal	Pass
6	14981.250	53.75	1.86	74.0	-20.25	Peak	17.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1597.000	25.80	-17.33	54.0	-28.20	AV	68.00	150	Vertical	Pass
1	1597.000	46.47	-17.33	74.0	-27.53	Peak	68.00	150	Vertical	Pass
2**	2432.500	97.08	-12.76	54.0	43.08	AV	137.00	150	Vertical	N/A
2	2432.500	105.41	-12.76	74.0	31.41	Peak	137.00	150	Vertical	N/A
3**	3221.000	30.17	-6.81	54.0	-23.83	AV	0.00	150	Vertical	Pass
3	3221.000	46.29	-6.81	74.0	-27.71	Peak	0.00	150	Vertical	Pass
4**	4856.000	34.58	-3.08	54.0	-19.42	AV	276.00	150	Vertical	Pass
4	4856.000	50.21	-3.08	74.0	-23.79	Peak	276.00	150	Vertical	Pass
5**	7554.875	37.58	-1.66	54.0	-16.42	AV	49.00	150	Vertical	Pass
5	7554.875	48.47	-1.66	74.0	-25.53	Peak	49.00	150	Vertical	Pass
6**	14376.188	41.83	2.20	54.0	-12.17	AV	81.00	150	Vertical	Pass
6	14376.188	53.52	2.20	74.0	-20.48	Peak	81.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1807.500	24.85	-16.45	54.0	-29.15	AV	60.00	150	Horizontal	Pass
1	1807.500	41.93	-16.45	74.0	-32.07	Peak	60.00	150	Horizontal	Pass
2**	2433.500	96.78	-12.78	54.0	42.78	AV	30.00	150	Horizontal	N/A
2	2433.500	104.45	-12.78	74.0	30.45	Peak	30.00	150	Horizontal	N/A
3**	3663.000	31.13	-6.86	54.0	-22.87	AV	247.00	150	Horizontal	Pass
3	3663.000	46.30	-6.86	74.0	-27.70	Peak	247.00	150	Horizontal	Pass
4**	5136.000	34.89	-2.46	54.0	-19.11	AV	0.00	150	Horizontal	Pass
4	5136.000	50.30	-2.46	74.0	-23.70	Peak	0.00	150	Horizontal	Pass
5**	7457.125	36.12	-3.45	54.0	-17.88	AV	114.00	150	Horizontal	Pass
5	7457.125	48.44	-3.45	74.0	-25.56	Peak	114.00	150	Horizontal	Pass
6**	13999.500	41.05	2.44	54.0	-12.95	AV	269.00	150	Horizontal	Pass
6	13999.500	52.81	2.44	74.0	-21.19	Peak	269.00	150	Horizontal	Pass

1 GHz to 12.75 GHz, ANT V 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1598.500	24.30	-17.42	54.0	-29.70	AV	301.00	150	Vertical	Pass
1	1598.500	45.32	-17.42	74.0	-28.68	Peak	301.00	150	Vertical	Pass
2**	2439.000	97.90	-12.49	54.0	43.90	AV	121.00	150	Vertical	N/A
2	2439.000	105.81	-12.49	74.0	31.81	Peak	121.00	150	Vertical	N/A
3**	5055.000	34.12	-2.58	54.0	-19.88	AV	359.00	150	Vertical	Pass
3	5055.000	50.05	-2.58	74.0	-23.95	Peak	359.00	150	Vertical	Pass
4**	6682.000	39.40	0.18	54.0	-14.60	AV	234.00	150	Vertical	Pass
4	6682.000	53.94	0.18	74.0	-20.06	Peak	234.00	150	Vertical	Pass
5**	9427.937	37.43	-0.46	54.0	-16.57	AV	232.00	150	Vertical	Pass
5	9427.937	49.71	-0.46	74.0	-24.29	Peak	232.00	150	Vertical	Pass
6**	15562.687	43.30	2.47	54.0	-10.70	AV	360.00	150	Vertical	Pass
6	15562.687	54.61	2.47	74.0	-19.39	Peak	360.00	150	Vertical	Pass

1 GHz to 12.75 GHz, ANT H 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1599.000	24.40	-17.38	54.0	-29.60	AV	157.00	150	Horizontal	Pass
1	1599.000	45.82	-17.38	74.0	-28.18	Peak	157.00	150	Horizontal	Pass
2**	2437.500	96.83	-12.53	54.0	42.83	AV	34.00	150	Horizontal	N/A
2	2437.500	105.14	-12.53	74.0	31.14	Peak	34.00	150	Horizontal	N/A
3**	4584.000	32.80	-3.85	54.0	-21.20	AV	195.00	150	Horizontal	Pass
3	4584.000	49.59	-3.85	74.0	-24.41	Peak	195.00	150	Horizontal	Pass
4**	6284.000	37.61	0.41	54.0	-16.39	AV	359.00	150	Horizontal	Pass
4	6284.000	53.46	0.41	74.0	-20.54	Peak	359.00	150	Horizontal	Pass
5**	8742.250	37.18	-1.28	54.0	-16.82	AV	174.00	150	Horizontal	Pass
5	8742.250	49.28	-1.28	74.0	-24.72	Peak	174.00	150	Horizontal	Pass
6**	14216.063	41.62	2.59	54.0	-12.38	AV	0.00	150	Horizontal	Pass
6	14216.063	52.76	2.59	74.0	-21.24	Peak	0.00	150	Horizontal	Pass

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

Test Data

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: 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.

Note ³: 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.

ANT 0

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	53.030	74	20.970	PEAK	Pass
		2390	N/A	54	N/A	AVERAGE	Pass
	HIGH	2483.5	53.927	74	20.073	PEAK	Pass
		2483.5	N/A	54	N/A	AVERAGE	Pass
802.11g	Low	2390	59.880	74	14.120	PEAK	Pass
		2390	48.163	54	5.837	AVERAGE	Pass
	HIGH	2483.5	61.956	74	12.044	PEAK	Pass
		2483.5	51.384	54	2.616	AVERAGE	Pass
802.11n20	Low	2390	60.629	74	13.371	PEAK	Pass
		2390	49.242	54	4.758	AVERAGE	Pass
	HIGH	2483.5	58.915	74	15.085	PEAK	Pass
		2483.5	48.458	54	5.542	AVERAGE	Pass
802.11n40	Low	2390	56.628	74	17.372	PEAK	Pass
		2390	47.415	54	6.585	AVERAGE	Pass
	HIGH	2483.5	66.965	74	7.035	PEAK	Pass
		2483.5	49.984	54	4.016	AVERAGE	Pass

ANT 1

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11b	Low	2390	52.782	74	21.218	PEAK	Pass
		2390	N/A	54	N/A	AVERAGE	Pass
	HIGH	2483.5	51.398	74	22.602	PEAK	Pass
		2483.5	N/A	54	N/A	AVERAGE	Pass
802.11g	Low	2390	54.606	74	19.394	PEAK	Pass
		2390	44.473	54	9.527	AVERAGE	Pass
	HIGH	2483.5	56.314	74	17.686	PEAK	Pass
		2483.5	46.525	54	7.475	AVERAGE	Pass
802.11n20	Low	2390	55.804	74	18.196	PEAK	Pass
		2390	45.776	54	8.224	AVERAGE	Pass
	HIGH	2483.5	55.759	74	18.241	PEAK	Pass
		2483.5	46.376	54	7.624	AVERAGE	Pass
802.11n40	Low	2390	61.069	74	12.931	PEAK	Pass
		2390	50.319	54	3.681	AVERAGE	Pass
	HIGH	2483.5	60.181	74	13.819	PEAK	Pass
		2483.5	50.597	54	3.403	AVERAGE	Pass

MIMO

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
802.11n20	Low	2390	62.117	74	11.883	PEAK	Pass
		2390	50.399	54	3.601	AVERAGE	Pass
	HIGH	2483.5	63.722	74	10.278	PEAK	Pass
		2483.5	51.698	54	2.302	AVERAGE	Pass
802.11n40	Low	2390	58.276	74	15.724	PEAK	Pass
		2390	48.880	54	5.120	AVERAGE	Pass
	HIGH	2483.5	66.607	74	7.393	PEAK	Pass
		2483.5	49.028	54	4.972	AVERAGE	Pass

ANT 0

802.11b Mode:

LOW CHANNEL, PEAK

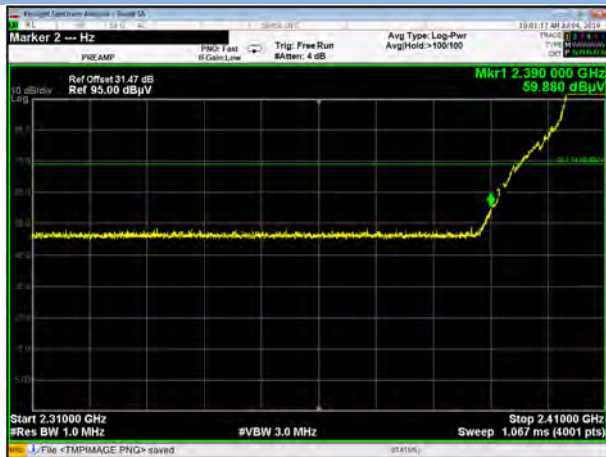


HIGH CHANNEL, PEAK



802.11g Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV

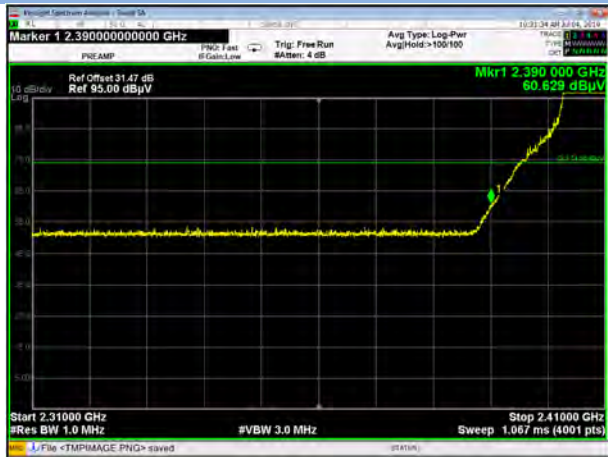


HIGH CHANNEL, AV



802.11n-20 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV



HIGH CHANNEL, AV



802.11n-40 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV



HIGH CHANNEL, AV



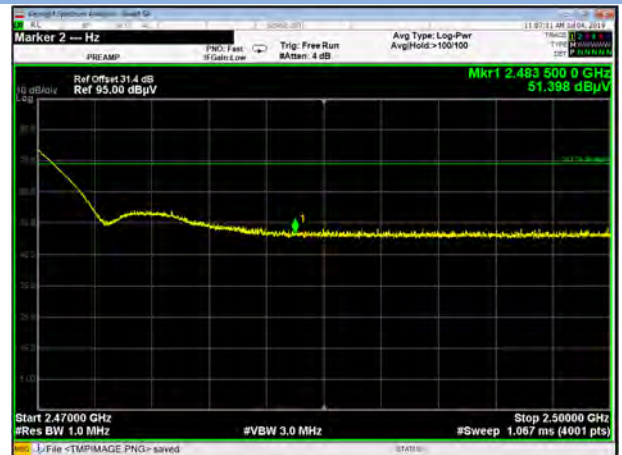
ANT 1

802.11b Mode:

LOW CHANNEL, PEAK

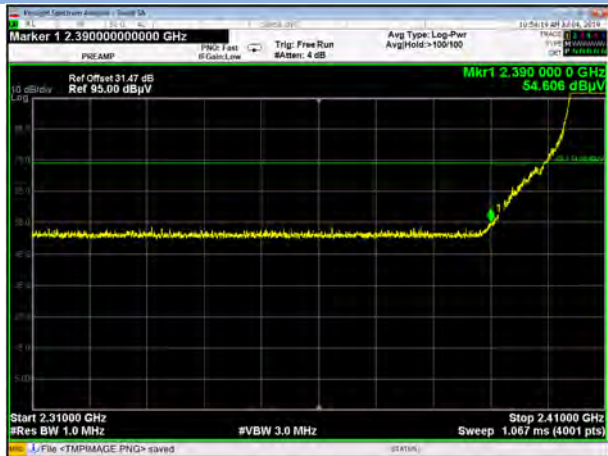


HIGH CHANNEL, PEAK



802.11g Mode:

LOW CHANNEL, PEAK



HIGH CHANNEL, PEAK



LOW CHANNEL, AV

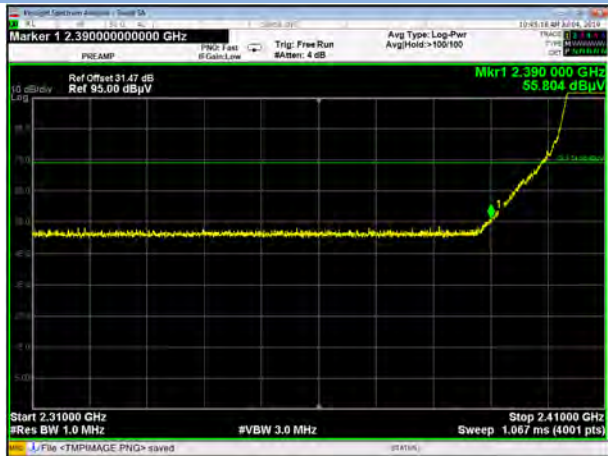


HIGH CHANNEL, AV

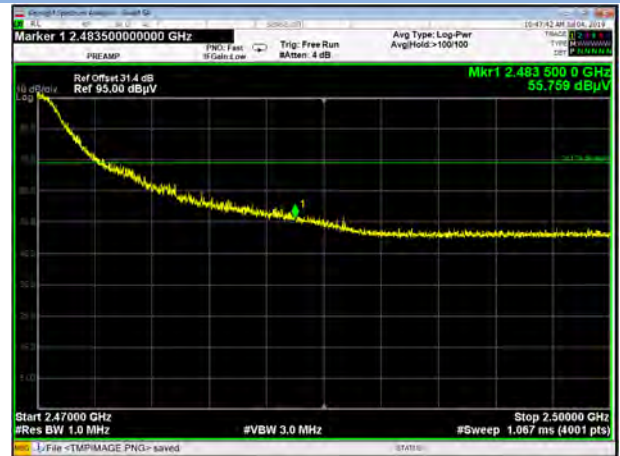


802.11n-20 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV

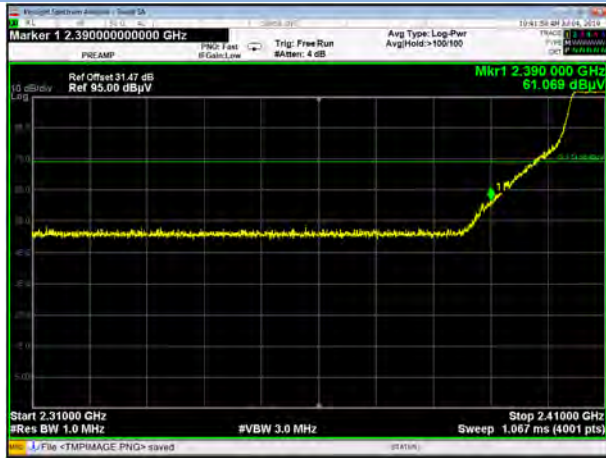


HIGH CHANNEL, AV



802.11n-40 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV



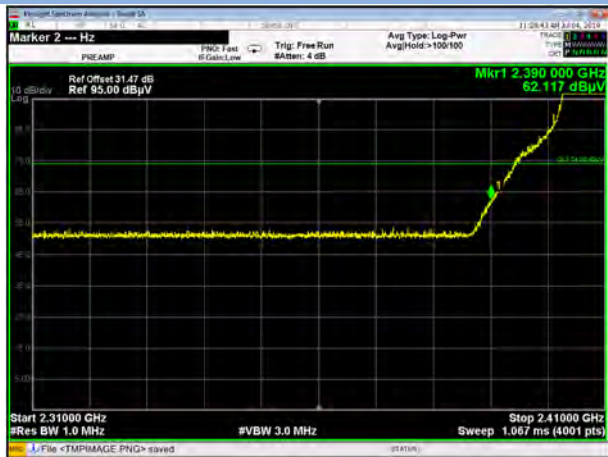
HIGH CHANNEL, AV



MIMO

802.11n-20 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV



HIGH CHANNEL, AV



802.11n-40 MHz Mode:

Low CHANNEL, PEAK



HIGH CHANNEL, PEAK



Low CHANNEL, AV



HIGH CHANNEL, AV



A.8 Power Spectral Density (PSD)

Test Data

ANT 0

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.77	8
Middle	-12.98	8
High	-13.13	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.21	8
Middle	-16.88	8
High	-17.19	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.06	8
Middle	-16.83	8
High	-17.03	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.83	8
Middle	-21.40	8
High	-21.27	8

ANT 1

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.90	8
Middle	-12.79	8
High	-12.94	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.14	8
Middle	-16.74	8
High	-16.97	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.16	8
Middle	-16.61	8
High	-16.65	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.59	8
Middle	-21.10	8
High	-20.88	8

MIMOANT 0

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.35	8
Middle	-20.83	8
High	-21.16	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-24.53	8
Middle	-25.68	8
High	-26.36	8

ANT 1

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.15	8
Middle	-20.81	8
High	-21.01	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-24.19	8
Middle	-25.30	8
High	-25.83	8

Test plots

ANT 0

802.11b LOW CHANNEL



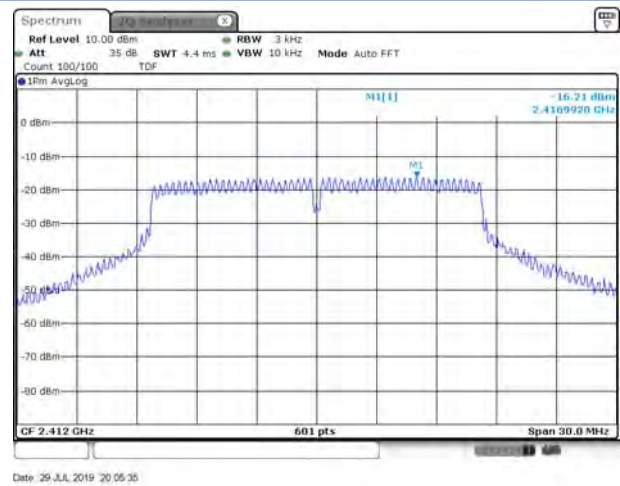
802.11b MIDDLE CHANNEL



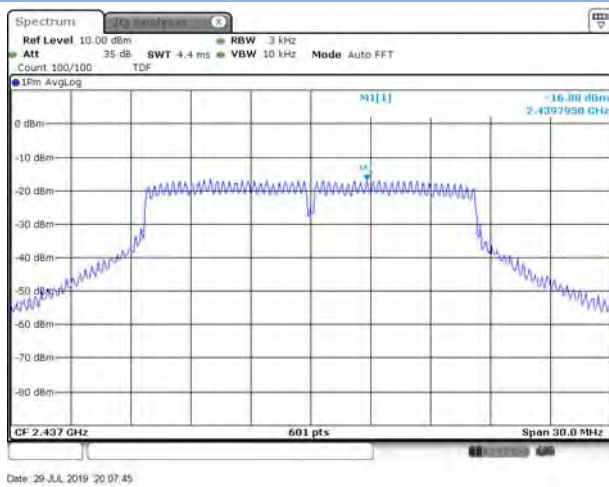
802.11b HIGH CHANNEL



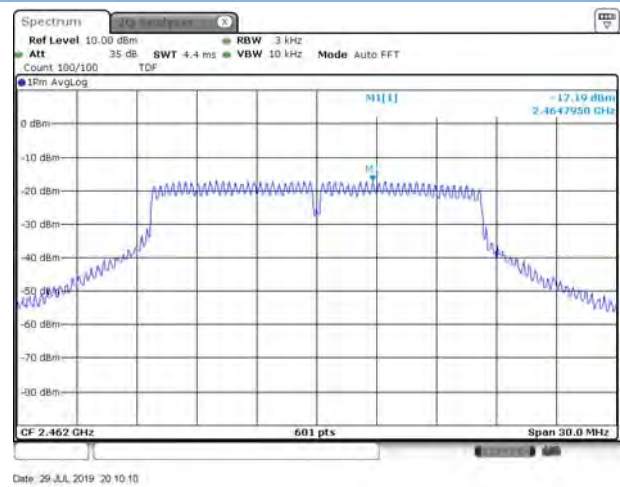
802.11g LOW CHANNEL



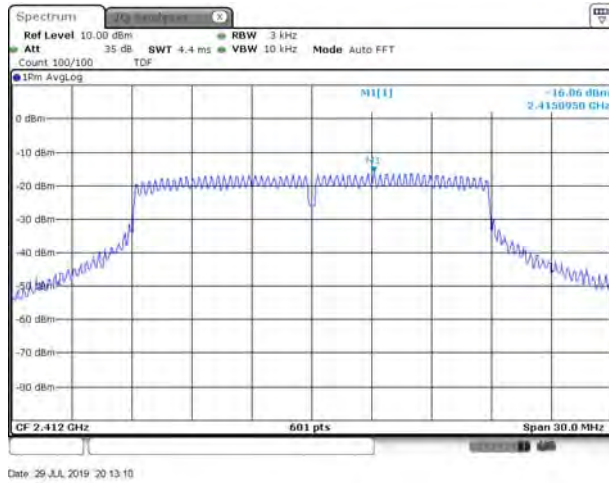
802.11g MIDDLE CHANNEL



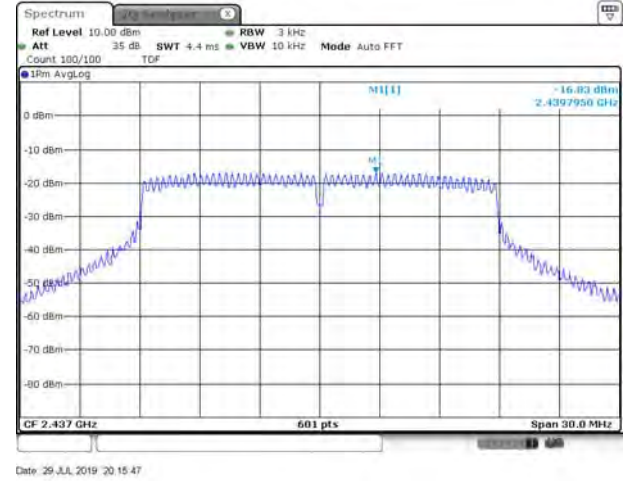
802.11g HIGH CHANNEL



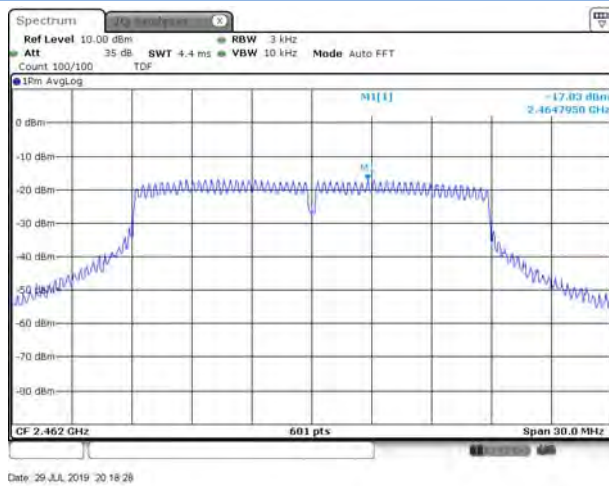
802.11n-20 MHz LOW CHANNEL



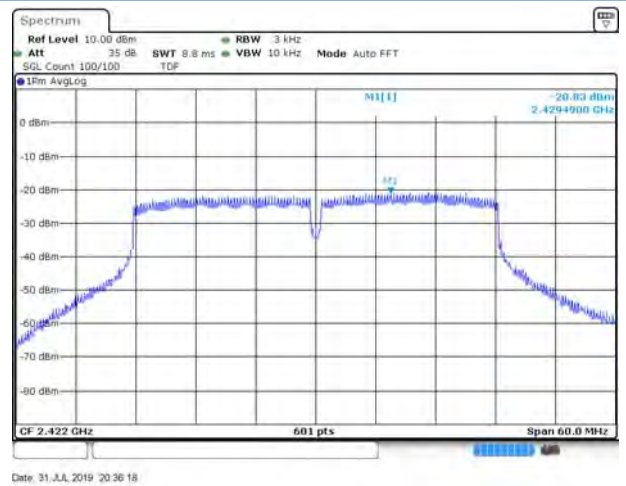
802.11 n-20 MHz MIDDLE CHANNEL



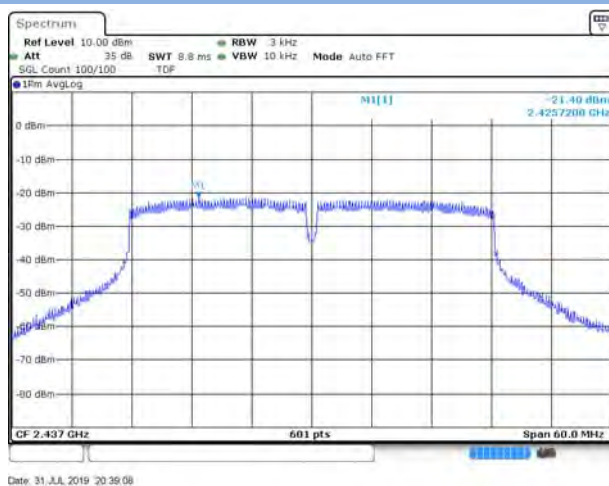
802.11n-20 MHz HIGH CHANNEL



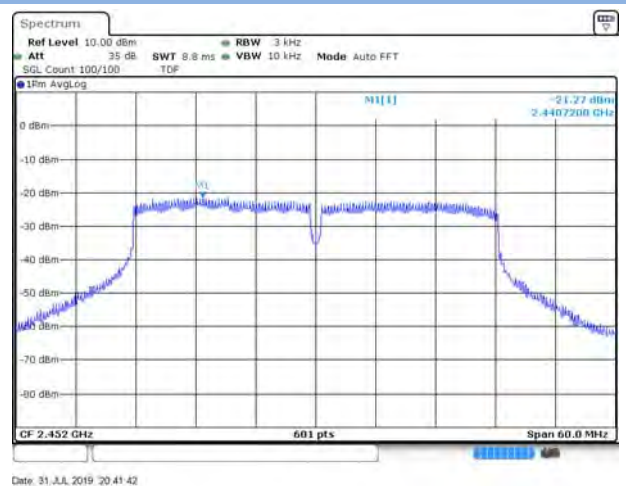
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANT 1

802.11b LOW CHANNEL



Date: 29 JUL 2019 20:46:20

802.11b MIDDLE CHANNEL



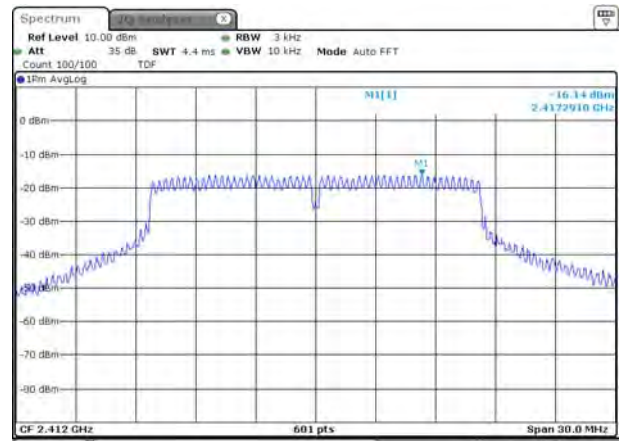
Date: 29 JUL 2019 20:48:30

802.11b HIGH CHANNEL



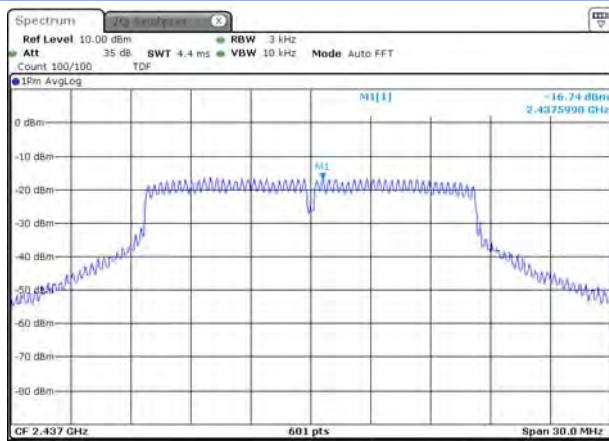
Date: 29 JUL 2019 20:50:50

802.11g LOW CHANNEL



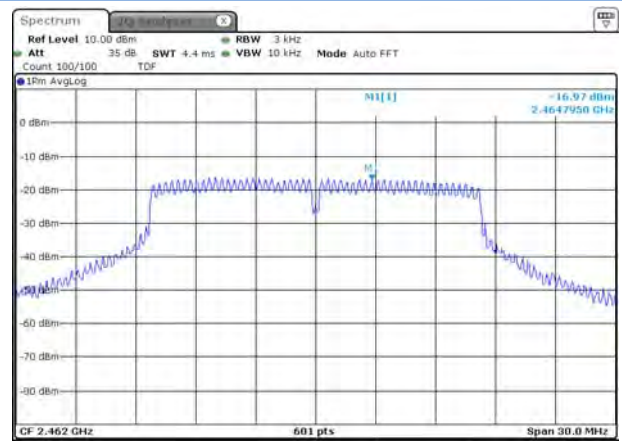
Date: 29 JUL 2019 20:54:16

802.11g MIDDLE CHANNEL



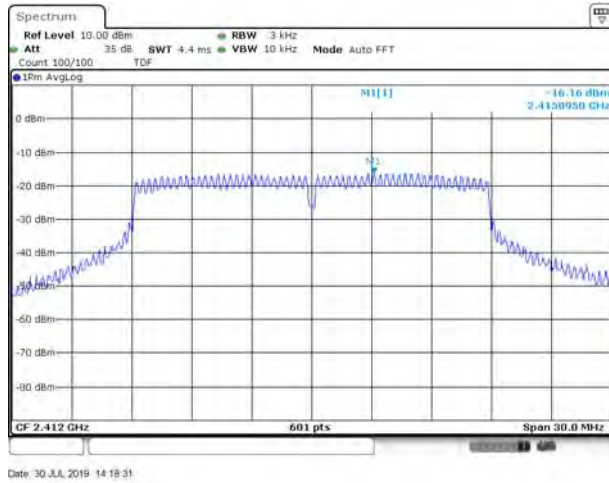
Date: 29 JUL 2019 20:57:02

802.11g HIGH CHANNEL

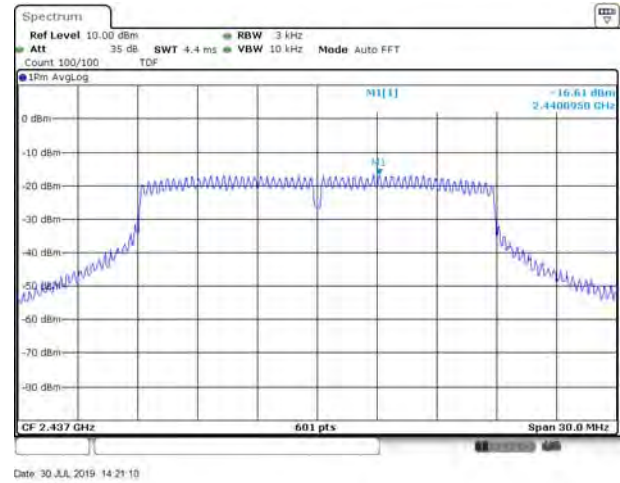


Date: 29 JUL 2019 21:01:25

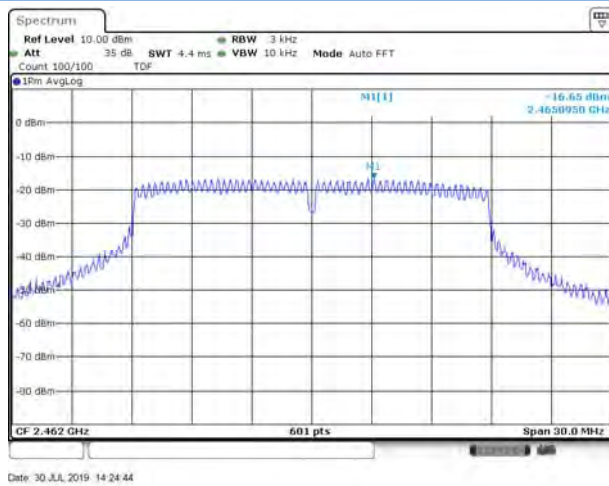
802.11n-20 MHz LOW CHANNEL



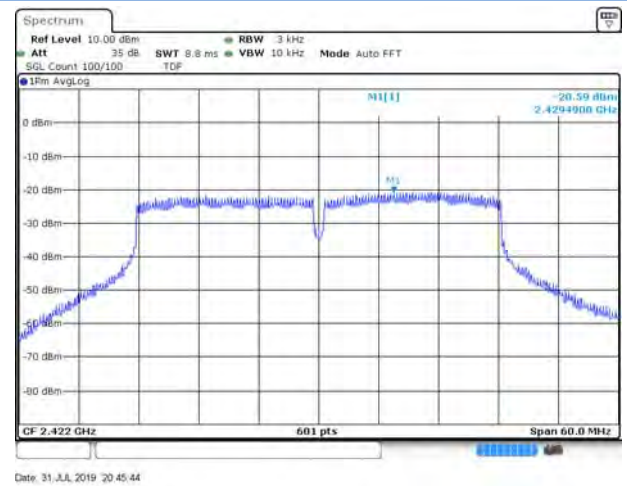
802.11 n-20 MHz MIDDLE CHANNEL



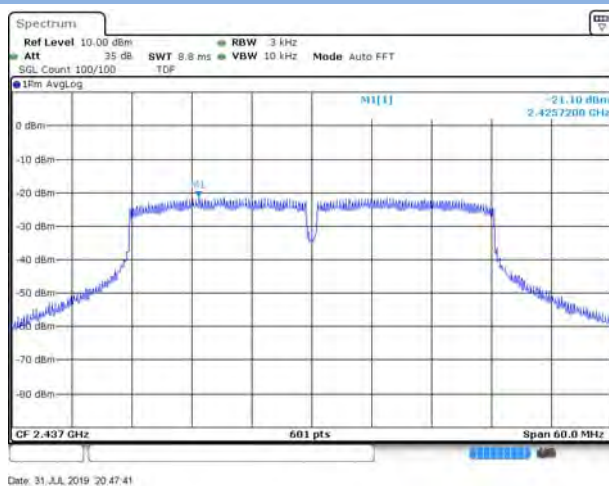
802.11n-20 MHz HIGH CHANNEL



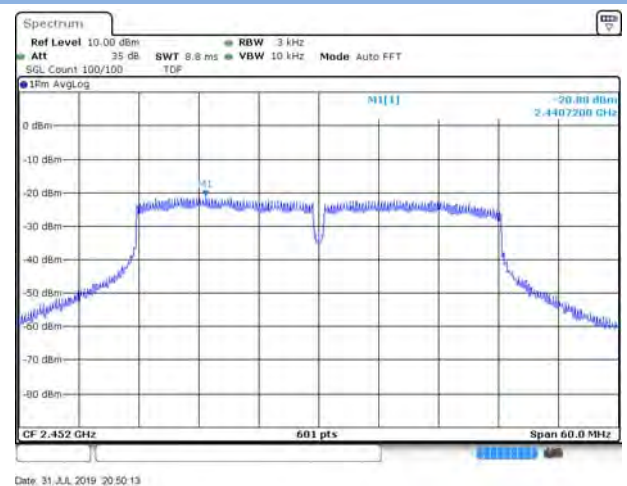
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



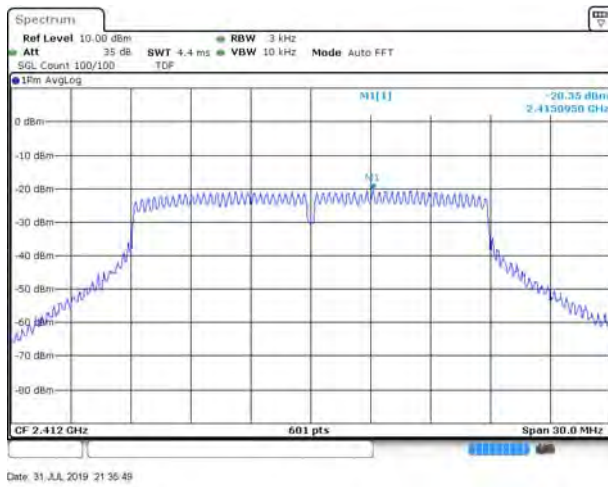
802.11n-40 MHz HIGH CHANNEL



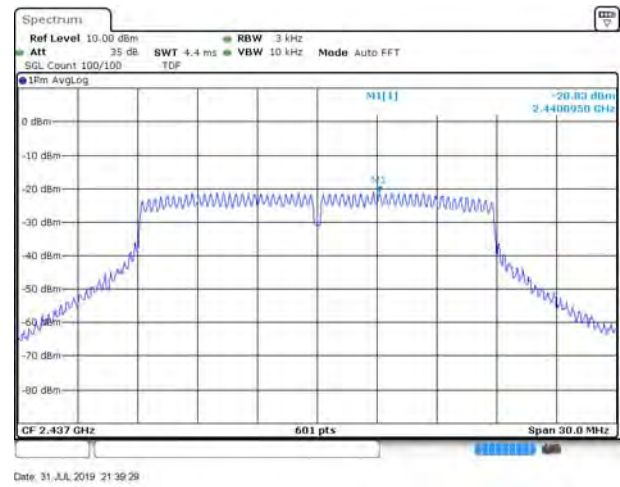
MIMO

ANT 0

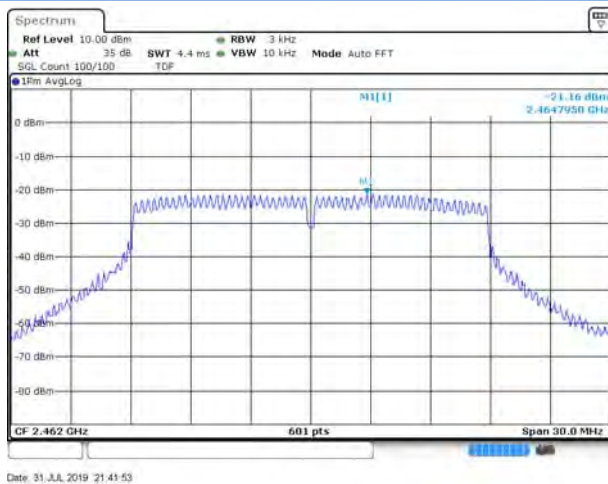
802.11n-20 MHz LOW CHANNEL



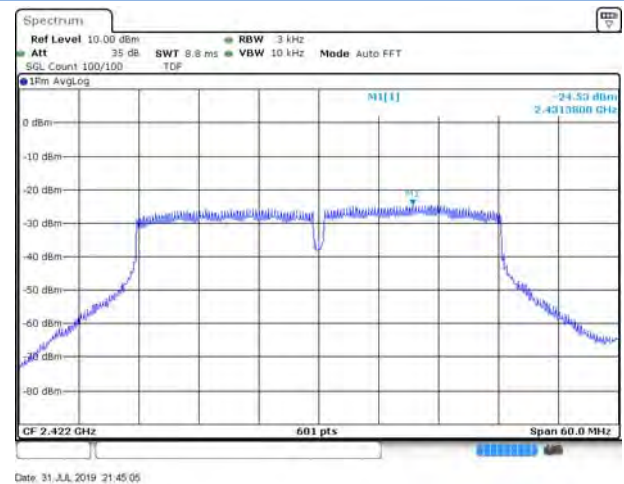
802.11 n-20 MHz MIDDLE CHANNEL



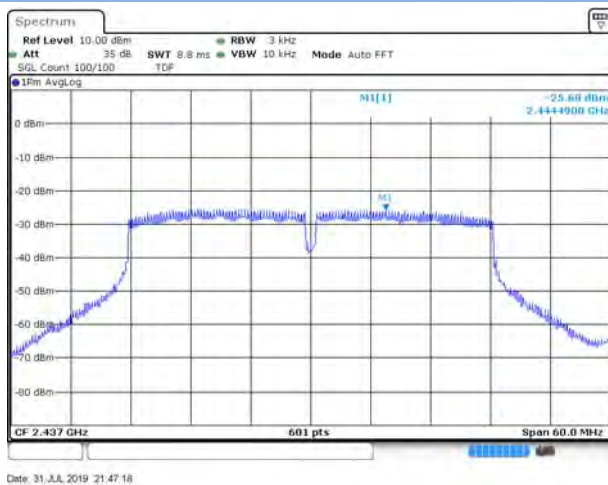
802.11n-20 MHz HIGH CHANNEL



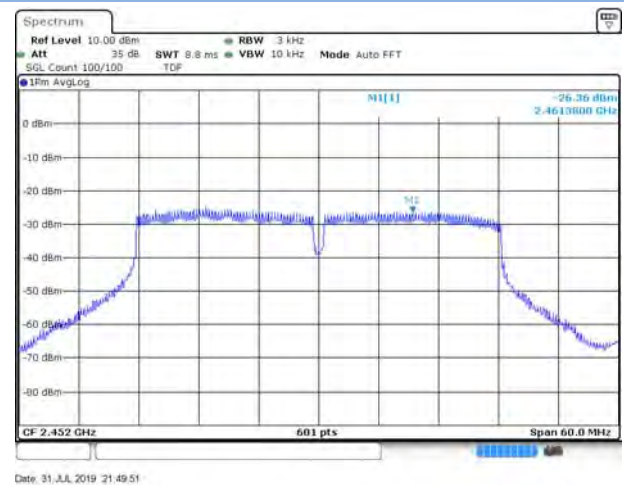
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

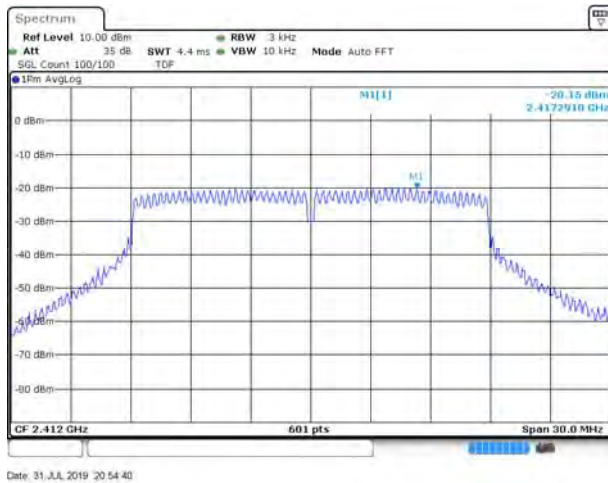


802.11n-40 MHz HIGH CHANNEL

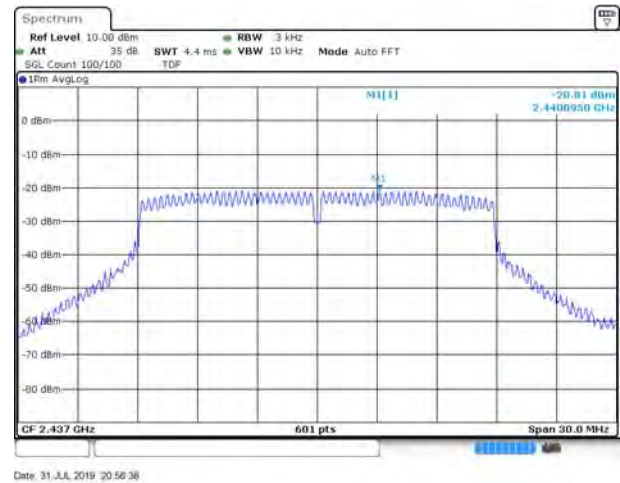


ANT 1

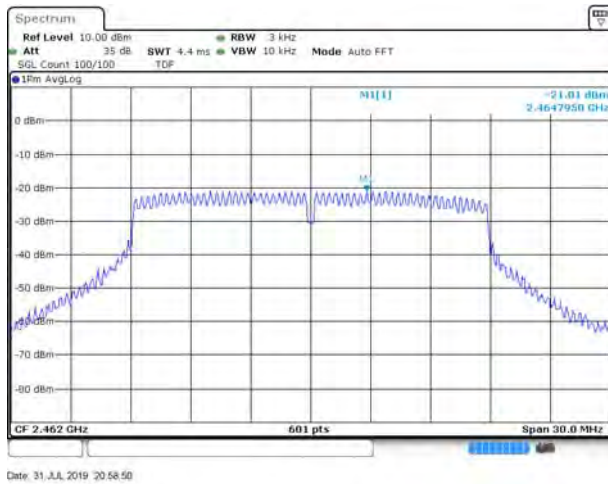
802.11n-20 MHz LOW CHANNEL



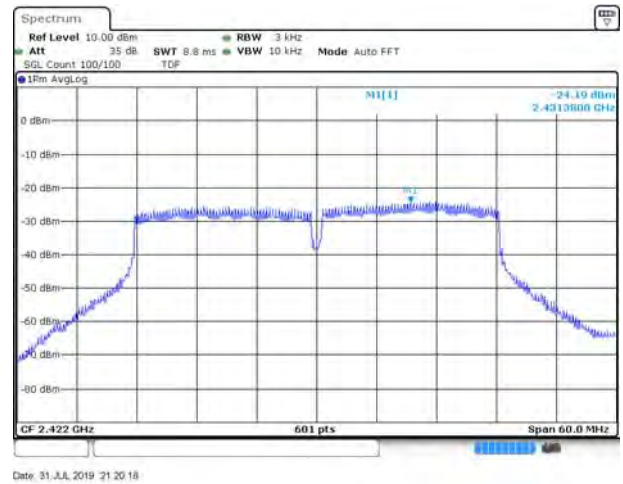
802.11 n-20 MHz MIDDLE CHANNEL



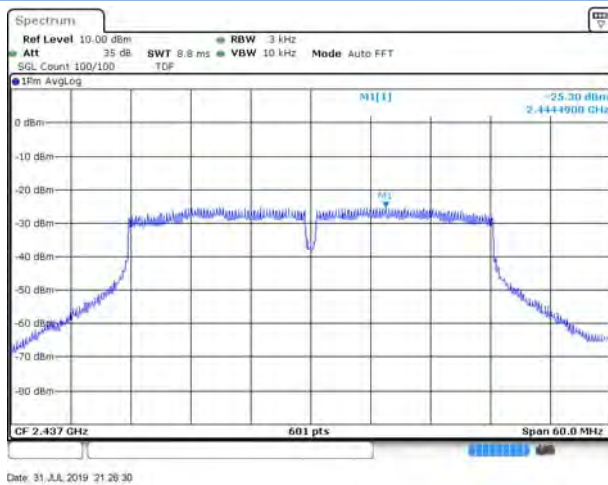
802.11n-20 MHz HIGH CHANNEL



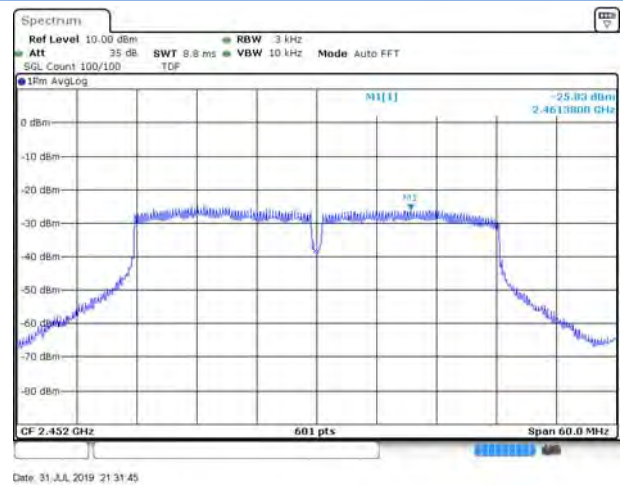
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1960488-AR.pdf".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1960488-AW.pdf".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ1960488-AI.pdf".

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