



FCC RF Test Report

APPLICANT : Ring LLC
EQUIPMENT : Ring Car Cam
BRAND NAME : Ring
MODEL NAME : 5B28S9
FCC ID : 2AEUPBHACC001
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Apr. 20, 2023 ~ May 11, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.07 dB at 5350.100 MHz
3.5	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-
-	15.207	AC Conducted Emission	15.207(a)	Not Applicable	-

Remark:

1. Not Applicable means after assessing, test items are not necessary to carry out.
2. This is a variant report for 5B28S9. The purpose is to add WLAN 5G UNII 2A and UNII 2C. According to the change, only the related test cases from original test report (Sporton Report Number FR1O0826F) were verified for the differences

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Ring LLC
12515 Cerise Ave Hawthorne, CA, 90250-4801 United States

1.2 Manufacturer

Ring LLC
12515 Cerise Ave Hawthorne, CA, 90250-4801 United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Ring Car Cam
Brand Name	Ring
Model Name	5B28S9
SN	Conducted: GCC1L810315400RR Radiation: GCC1L810315400MD
FCC ID	2AEUPBHACC001
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a vehicle device, the adapter is provided to test. Does not use AC charging at actual usage scenarios.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power to Antenna	<5260 MHz ~ 5320 MHz> 802.11a : 15.56 dBm / 0.0360 W 802.11n HT20 : 15.05 dBm / 0.0320 W <5500 MHz ~ 5700 MHz > 802.11a : 15.52 dBm / 0.0356 W 802.11n HT20 : 14.43 dBm / 0.0277 W
99% Occupied Bandwidth	<5260 MHz ~ 5320 MHz> 802.11a : 17.18 MHz 802.11n HT20 : 18.23 MHz <5500 MHz ~ 5700 MHz > 802.11a : 17.23 MHz 802.11n HT20 : 18.53 MHz
Antenna Type / Gain	<5260 MHz ~ 5320 MHz> IFA Antenna with gain 3.00 dBi <5500 MHz ~ 5700 MHz>



	IFA Antenna with gain 3.90 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-KS	AUDIX	E3	6.2009-8-24a1

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	56	5280	64	5320

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5500- 5700 MHz MHz U-NII-2C	100	5500	116	5580
	104	5520	132	5660
	108	5540	136	5680
	112	5560	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	120	5600	124	5620
			128	5640



2.2 Test Mode

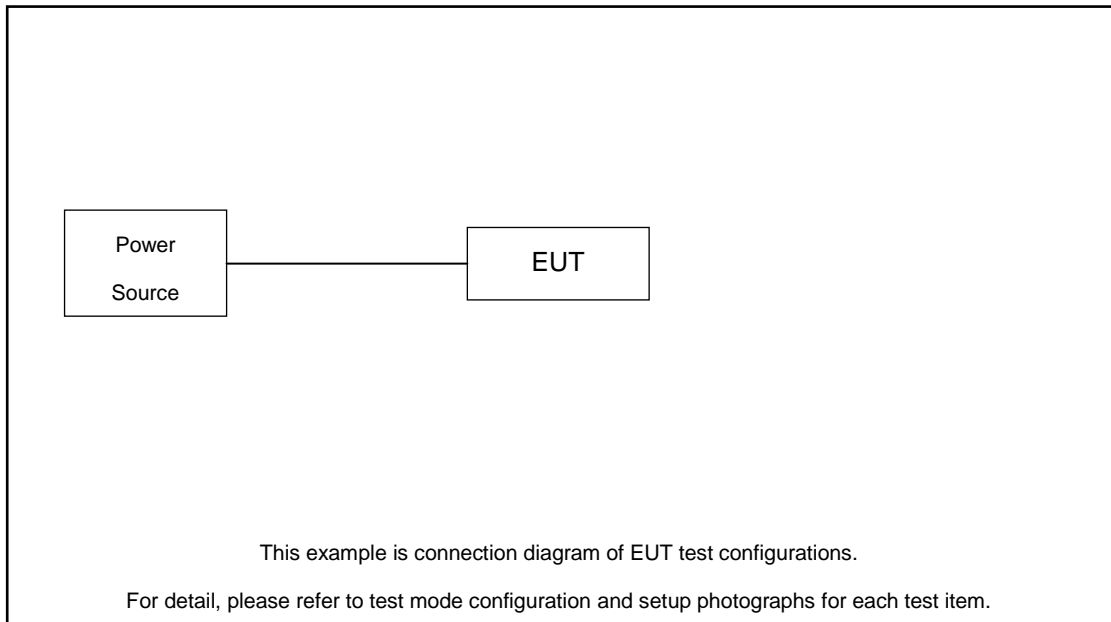
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0

Ch. #		U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5700 MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140

Ch. #		U-NII-2A : 5260-5320 MHz	U-NII-2C : 5500- 5700 MHz
		802.11n HT20	802.11n HT20
L	Low	52	100
M	Middle	60	116
H	High	64	140

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 7.00 dB.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\
 &= 7.00 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

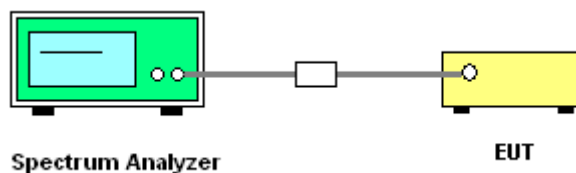
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

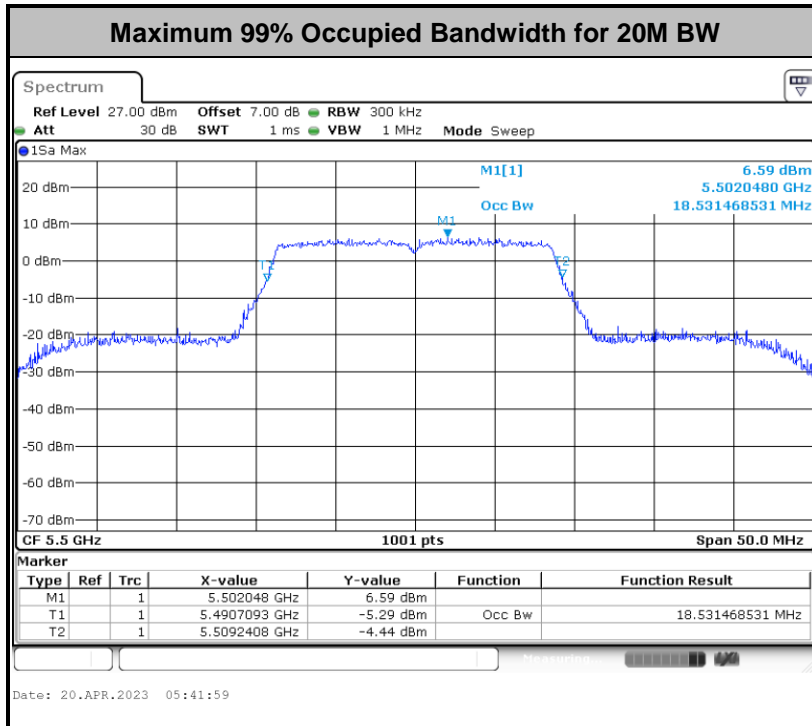
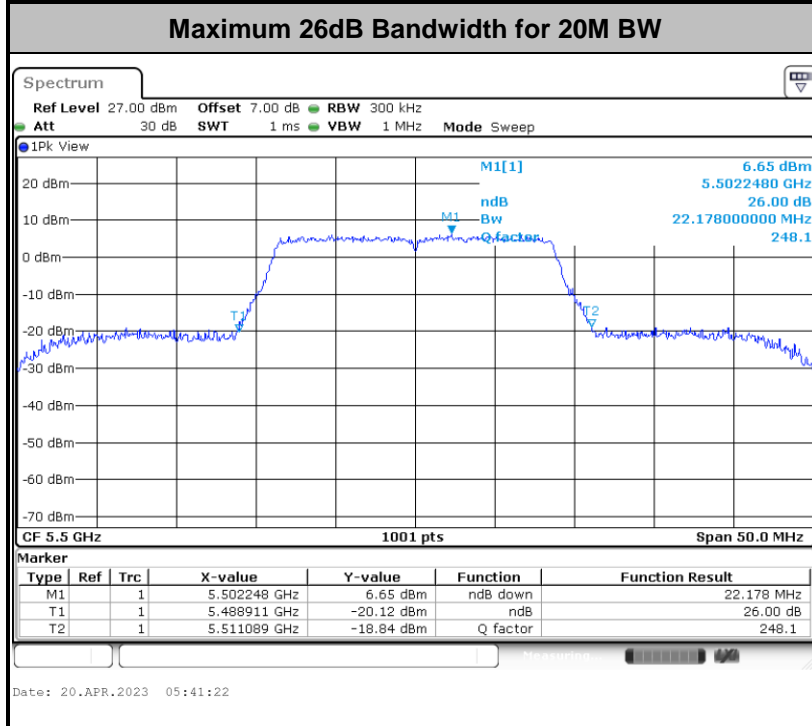
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm +10 log 10 B, where B is the 26 dB emission bandwidth in megahertz.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

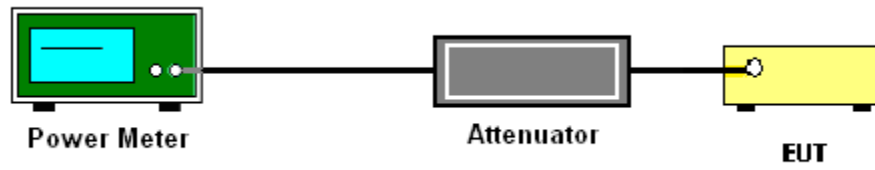
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

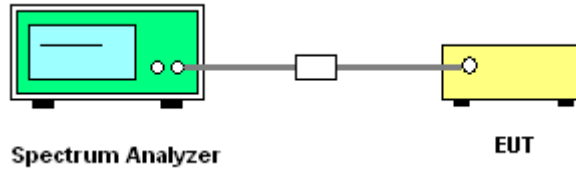
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

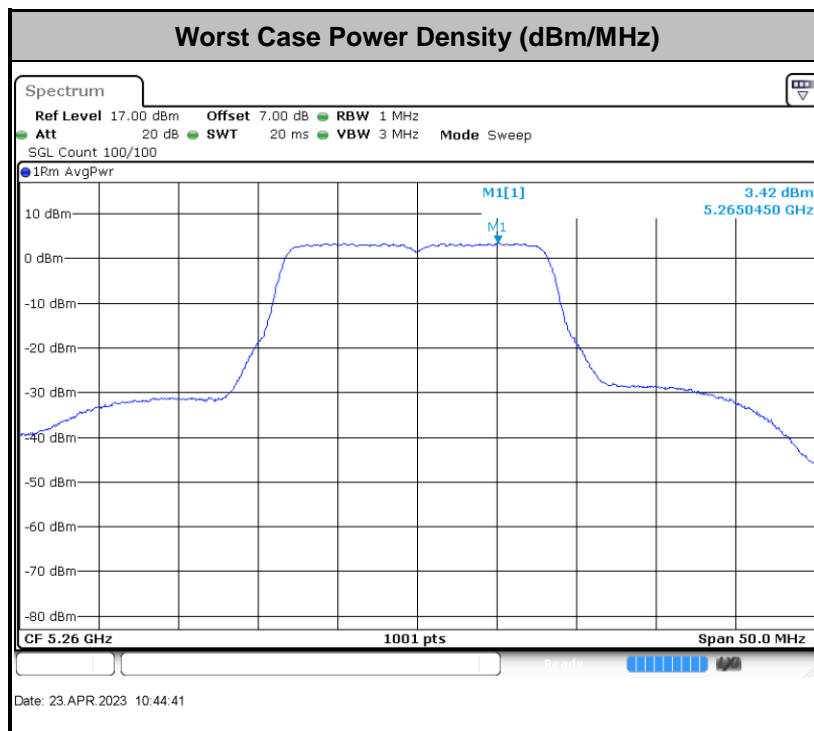
- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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



EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBµV/m

d_{Meas} is the measurement distance, in m

(3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

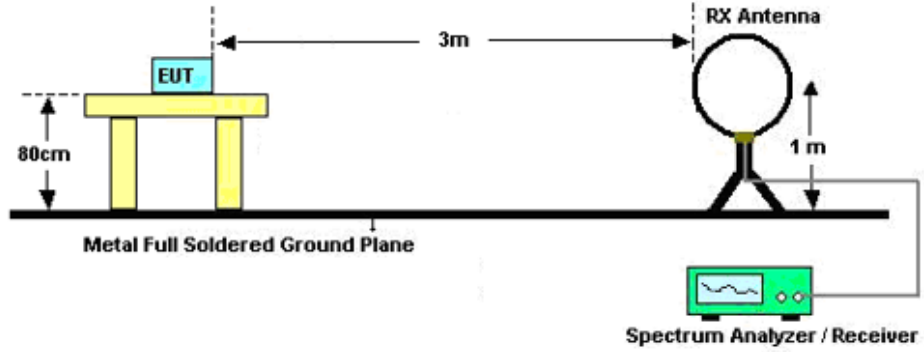


3.4.3 Test Procedures

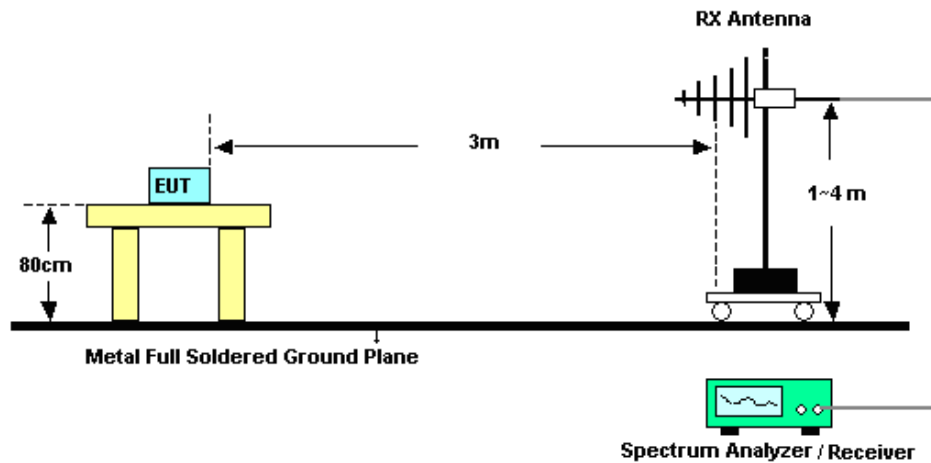
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz (harmonic)
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz (Band edge)
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

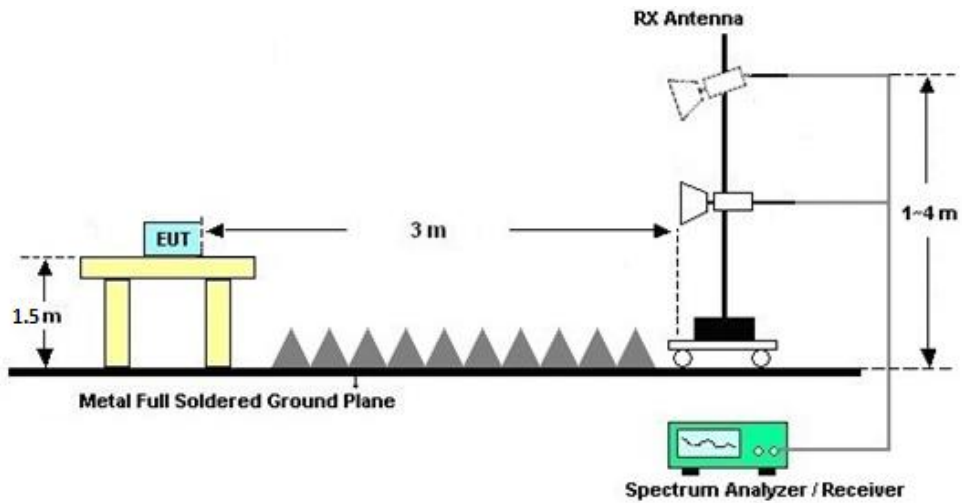
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.4.7 Duty Cycle

Please refer to Appendix C.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.



3.5 Antenna Requirements

3.5.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.5.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.5.3 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.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Apr. 20, 2023~ Apr. 23, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Apr. 20, 2023~ Apr. 23, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Apr. 20, 2023~ Apr. 23, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;M ax 30dBm	Oct. 13, 2022	May 11, 2023	Oct. 12, 2023	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz-44GHz	May 24, 2022	May 11, 2023	May 23, 2023	Radiation (03CH03-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	May 11, 2023	Oct. 15, 2023	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	23182	30MHz-1GHz	Dec. 23, 2022	May 11, 2023	Dec. 22, 2023	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 15, 2022	May 11, 2023	Nov. 14, 2023	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101116	18GHz~40GHz	Oct. 17, 2022	May 11, 2023	Oct. 16, 2023	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	187289	30MHz ~1000MHz	May 24, 2022	May 11, 2023	May 23, 2023	Radiation (03CH03-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 05, 2023	May 11, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082394	1Ghz-18Ghz	Jan. 05, 2023	May 11, 2023	Jan. 04, 2024	Radiation (03CH03-KS)
Amplifier	Keysight	83017A	MY532703 19	1GHz~26.5GHz	Oct. 12, 2022	May 11, 2023	Oct. 11, 2023	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	May 11, 2023	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 11, 2023	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 11, 2023	NCR	Radiation (03CH03-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.1 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.0
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0
---	-----

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0
---	-----

----- THE END -----



Appendix A. Conducted Test Results

A. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2023/4/20~2023/4/23	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit	Note
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11a	6Mbps	1	52	5260	17.13	21.58	23.34	29.34	23.98	
11a	6Mbps	1	60	5300	17.18	21.53	23.35	29.35	23.98	
11a	6Mbps	1	64	5320	17.13	21.53	23.34	29.34	23.98	
HT20	MCS0	1	52	5260	18.18	21.73	23.60	29.60	23.98	
HT20	MCS0	1	60	5300	18.23	21.73	23.61	29.61	23.98	
HT20	MCS0	1	64	5320	18.23	21.78	23.61	29.61	23.98	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	52	5260	0.31	15.52	23.98	3.00	26.99	Pass
11a	6Mbps	1	60	5300	0.31	15.56	23.98	3.00	26.99	Pass
11a	6Mbps	1	64	5320	0.31	14.73	23.98	3.00	26.99	Pass
HT20	MCS0	1	52	5260	0.34	15.05	23.98	3.00	26.99	Pass
HT20	MCS0	1	60	5300	0.34	14.93	23.98	3.00	26.99	Pass
HT20	MCS0	1	64	5320	0.34	14.84	23.98	3.00	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 1	SUM			
11a	6Mbps	1	52	5260	0.31	3.73			11.00	3.00	Pass
11a	6Mbps	1	60	5300	0.31	3.36			11.00	3.00	Pass
11a	6Mbps	1	64	5320	0.31	3.12			11.00	3.00	Pass
HT20	MCS0	1	52	5260	0.34	2.97			11.00	3.00	Pass
HT20	MCS0	1	60	5300	0.34	3.01			11.00	3.00	Pass
HT20	MCS0	1	64	5320	0.34	2.75			11.00	3.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	6 dB Bandwidth for Straddle Channel
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	Ant 1
11a	6Mbps	1	100	5500	17.18	21.68	23.35	29.35	23.98	----
11a	6Mbps	1	116	5580	17.33	21.83	23.39	29.39	23.98	----
11a	6Mbps	1	136	5680	17.23	21.73	23.36	29.36	23.98	----
11a	6Mbps	1	140	5700	17.18	21.68	23.35	29.35	23.98	----
HT20	MCS0	1	100	5500	18.53	22.18	23.68	29.68	23.98	----
HT20	MCS0	1	116	5580	18.33	21.98	23.63	29.63	23.98	----
HT20	MCS0	1	136	5680	18.13	21.78	23.58	29.58	23.98	----
HT20	MCS0	1	140	5700	18.33	22.08	23.63	29.63	23.98	----

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	0.31	14.90	23.98	3.90	26.99	Pass
11a	6Mbps	1	116	5580	0.31	15.52	23.98	3.90	26.99	Pass
11a	6Mbps	1	136	5680	0.31	14.75	23.98	3.90	26.99	Pass
11a	6Mbps	1	140	5700	0.31	10.66	23.98	3.90	26.99	Pass
HT20	MCS0	1	100	5500	0.34	14.43	23.98	3.90	26.99	Pass
HT20	MCS0	1	116	5580	0.34	14.18	23.98	3.90	26.99	Pass
HT20	MCS0	1	136	5680	0.34	13.88	23.98	3.90	26.99	Pass
HT20	MCS0	1	140	5700	0.34	10.82	23.98	3.90	26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)		Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
					Ant 1	Ant 1	SUM	Ant 1	Ant 1		
11a	6Mbps	1	100	5500	0.31	3.08		11.00	3.90		Pass
11a	6Mbps	1	116	5580	0.31	3.45		11.00	3.90		Pass
11a	6Mbps	1	136	5700	0.31	3.29		11.00	3.90		Pass
11a	6Mbps	1	140	5700	0.31	-0.89		11.00	3.90		Pass
HT20	MCS0	1	100	5500	0.34	2.35		11.00	3.90		Pass
HT20	MCS0	1	116	5580	0.34	1.77		11.00	3.90		Pass
HT20	MCS0	1	136	5700	0.34	2.17		11.00	3.90		Pass
HT20	MCS0	1	140	5700	0.34	-0.98		11.00	3.90		Pass



Appendix B. Radiated Spurious Emission

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-2A	5.25-5.35	802.11a	52	5260	6Mbps	-	-
Mode 2	U-NII-2A	5.25-5.35	802.11a	60	5300	6Mbps	-	-
Mode 3	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-	-
Mode 4	U-NII-2A	5.25-5.35	802.11n HT20	52	5260	MCS0	-	-
Mode 5	U-NII-2A	5.25-5.35	802.11n HT20	60	5300	MCS0	-	-
Mode 6	U-NII-2A	5.25-5.35	802.11n HT20	64	5320	MCS0	-	-
Mode 7	U-NII-2A	5.47-5.725	802.11a	100	5500	6Mbps	-	-
Mode 8	U-NII-2C	5.47-5.725	802.11a	116	5580	6Mbps	-	-
Mode 9	U-NII-2C	5.47-5.725	802.11a	140	5700	6Mbps	-	-
Mode 10	U-NII-2C	5.47-5.725	802.11n HT20	100	5500	MCS0	-	-
Mode 11	U-NII-2C	5.47-5.725	802.11n HT20	116	5580	MCS0	-	-
Mode 12	U-NII-2C	5.47-5.725	802.11n HT20	140	5700	MCS0	-	-
Mode 13	U-NII-2C	5.47-5.725	802.11a	136	5680	6Mbps	-	-
Mode 14	U-NII-2C	5.47-5.725	802.11n HT20	136	5680	MCS0	-	-
Mode 15	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-	LF



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	52	-	-	-	-	-	-	-	Band Edge
1	802.11a	52	15780.00	47.25	54.00	-6.75	H	AVERAGE	Pass	Harmonic
2	802.11a	60	-	-	-	-	-	-	-	Band Edge
2	802.11a	60	15900.00	47.94	74.00	-22.49	H	PEAK	Pass	Harmonic
3	802.11a	64	5350.10	50.93	54.00	-3.07	V	AVERAGE	Pass	Band Edge
3	802.11a	64	10640.00	46.28	74.00	-27.72	H	PEAK	Pass	Harmonic
4	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
4	802.11n HT20	52	10520.00	46.65	68.30	-21.65	H	PEAK	Pass	Harmonic
5	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
5	802.11n HT20	60	15900.00	46.23	74.00	-24.99	H	PEAK	Pass	Harmonic
6	802.11n HT20	64	-	-	-	-	-	-	-	Band Edge
6	802.11n HT20	64	10640.00	46.42	74.00	-27.58	H	PEAK	Pass	Harmonic
7	802.11a	100	5466.80	63.81	68.30	-4.49	V	PEAK	Pass	Band Edge
7	802.11a	100	11000.00	40.30	54.00	-13.70	H	AVERAGE	Pass	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	Band Edge
8	802.11a	116	11160.00	45.58	74.00	-28.42	H	PEAK	Pass	Harmonic
9	802.11a	140	5725.08	64.60	68.30	-3.70	V	PEAK	Pass	Band Edge
9	802.11a	140	11400.00	43.79	74.00	-30.21	H	PEAK	Pass	Harmonic
10	802.11n HT20	100	5470.00	64.37	68.30	-3.93	V	PEAK	Pass	Band Edge
10	802.11n HT20	100	11000.00	44.83	74.00	-29.17	V	PEAK	Pass	Harmonic
11	802.11n HT20	116	-	-	-	-	-	-	-	Band Edge
11	802.11n HT20	116	11160.00	46.77	74.00	-27.23	H	PEAK	Pass	Harmonic



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
12	802.11n HT20	140	5725.32	64.95	68.30	-3.35	V	PEAK	Pass	Band Edge
12	802.11n HT20	140	11400.00	45.07	74.00	-28.93	V	PEAK	Pass	Harmonic
13	802.11a	136	5727.16	61.99	68.30	-6.31	V	PEAK	Pass	Band Edge
13	802.11a	136	11360.00	40.57	54.00	-13.43	H	AVERAGE	Pass	Harmonic
14	802.11n HT20	136	5725.56	62.30	68.30	-6.00	V	PEAK	Pass	Band Edge
14	802.11n HT20	136	11360.00	47.64	74.00	-26.36	H	PEAK	Pass	Harmonic
15	802.11a	64	359.8	37.45	46.00	-8.55	H	PEAK	Pass	LF

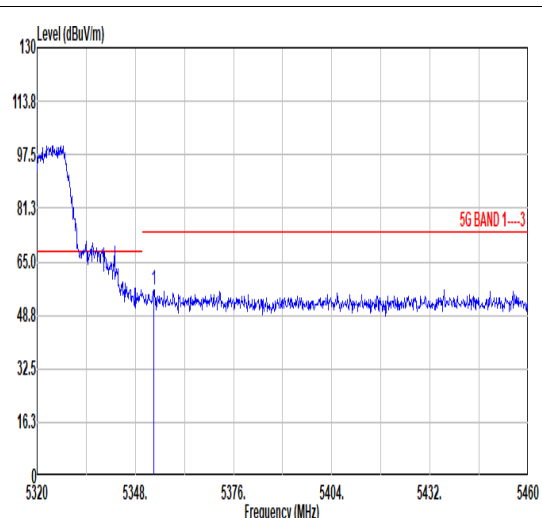
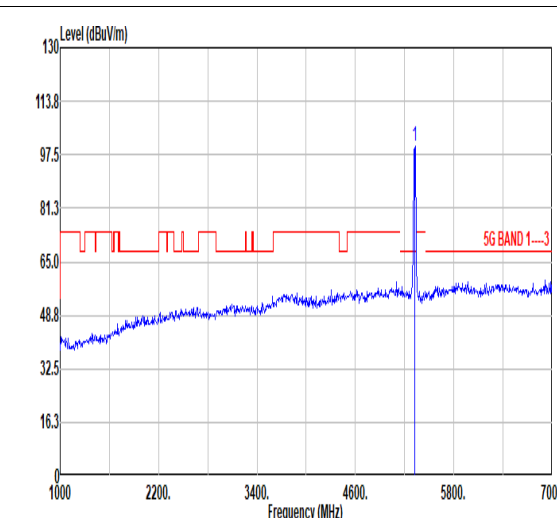
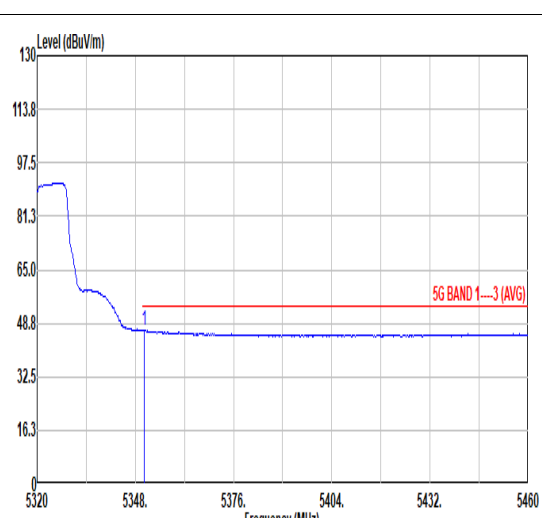
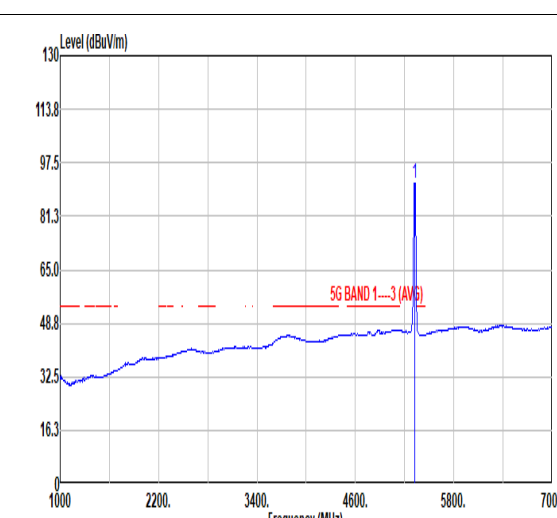


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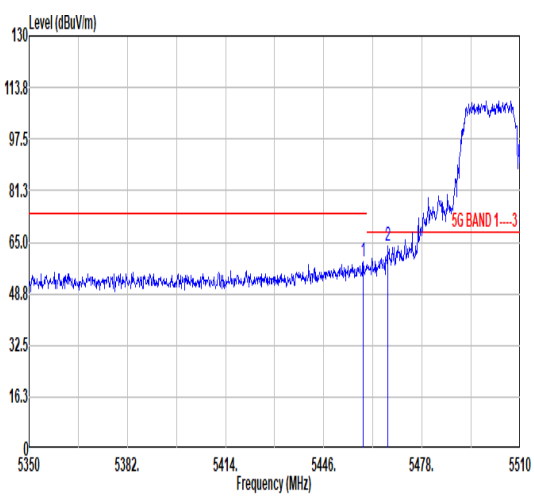
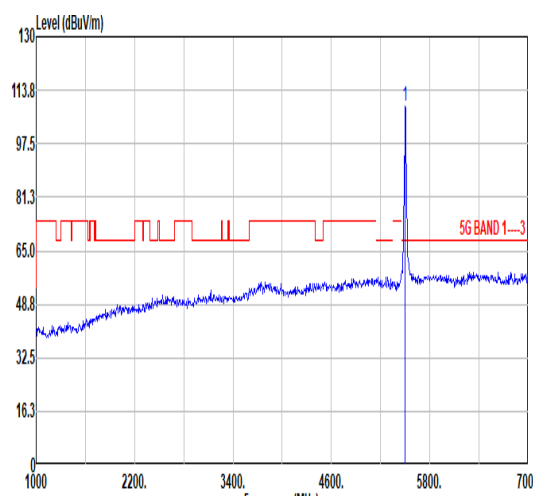
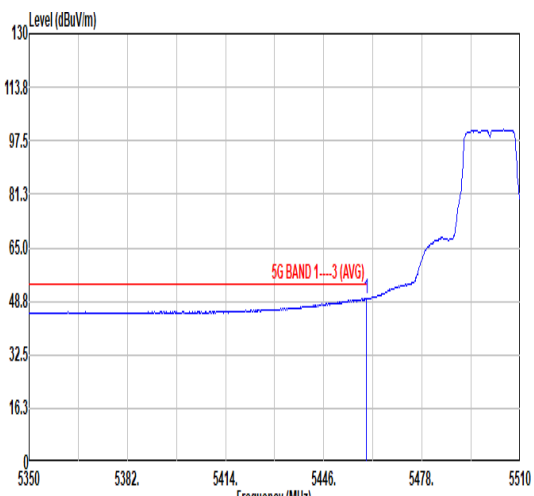
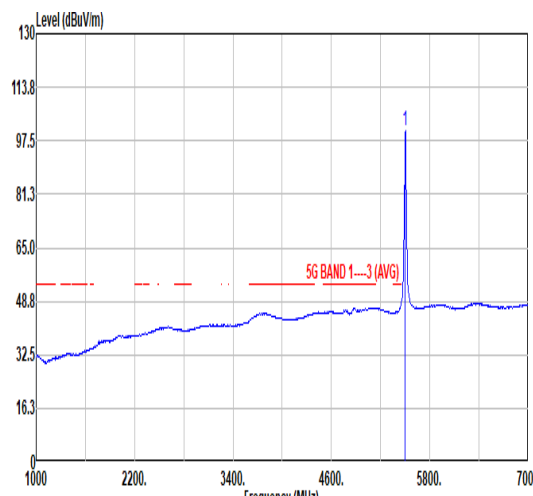


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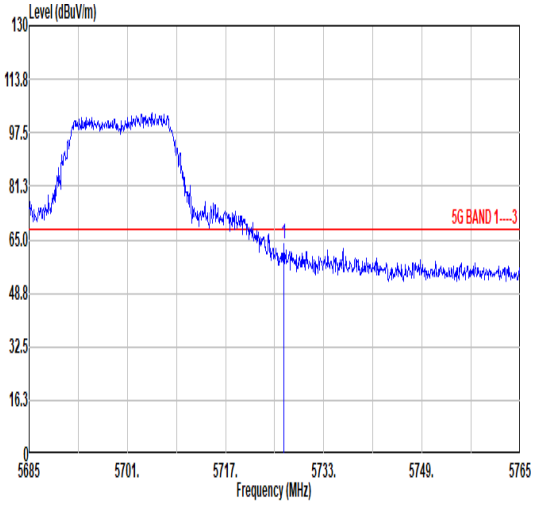
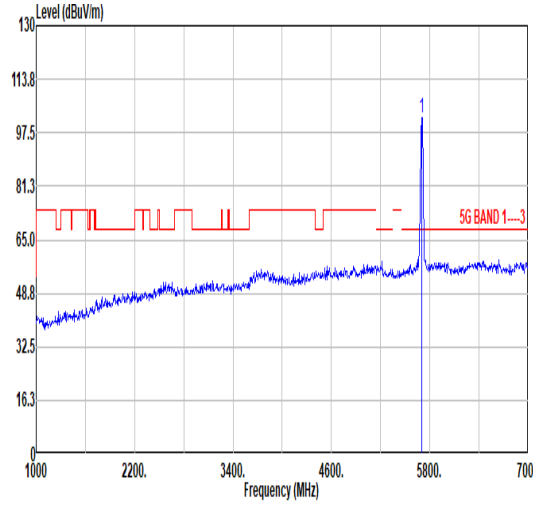
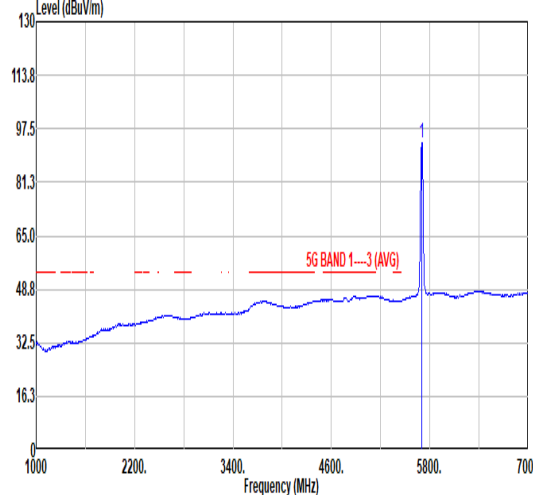


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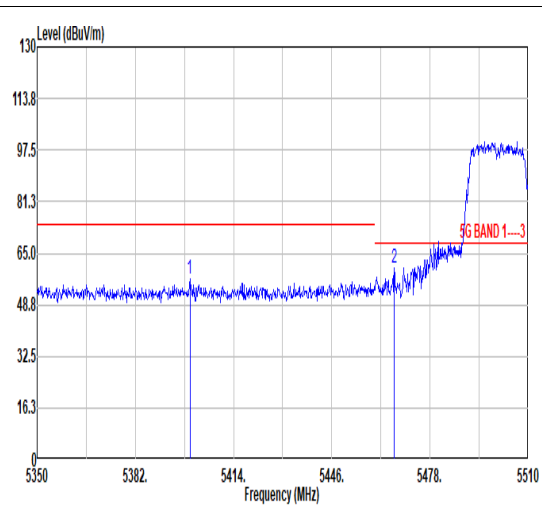
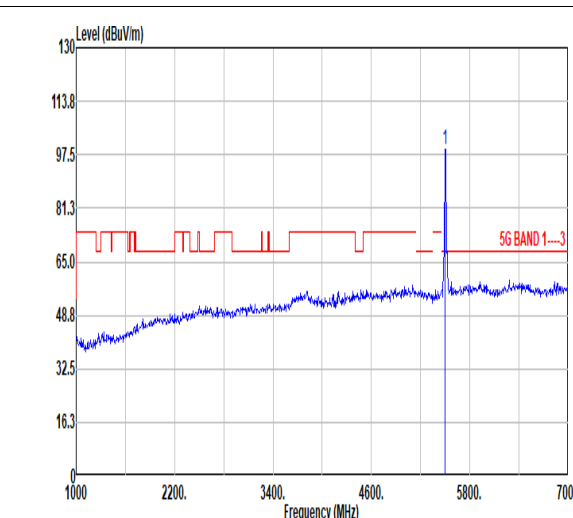
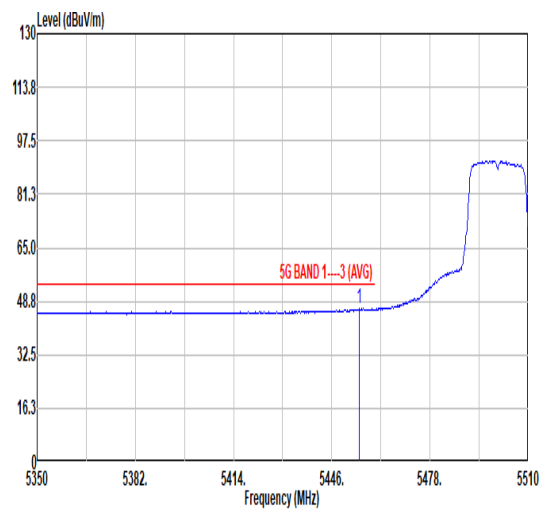
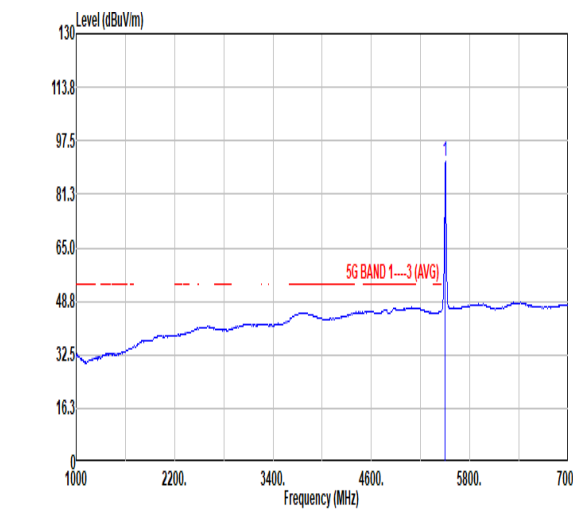


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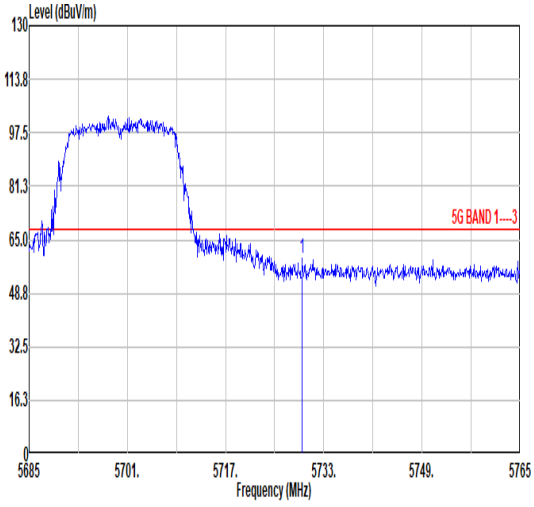
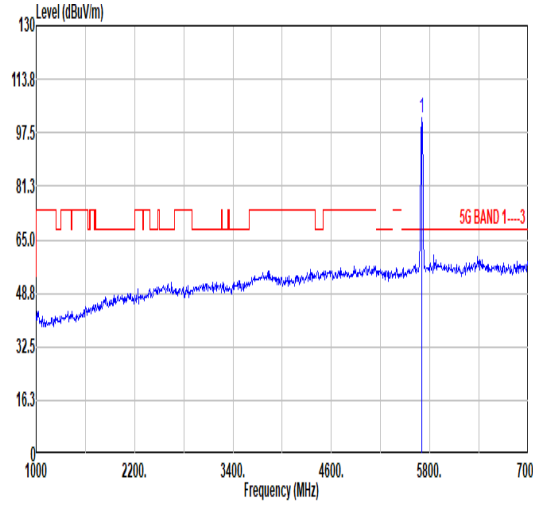
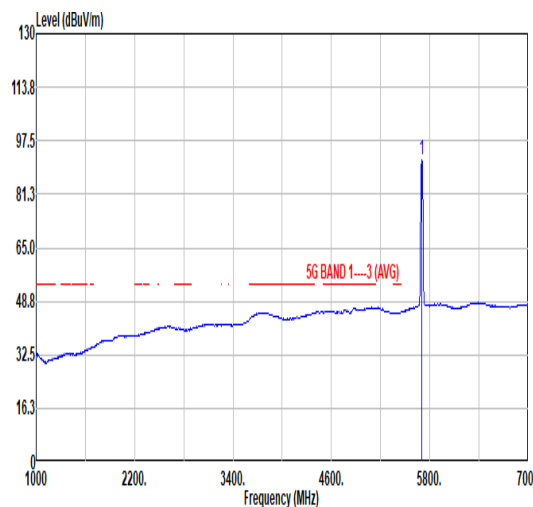


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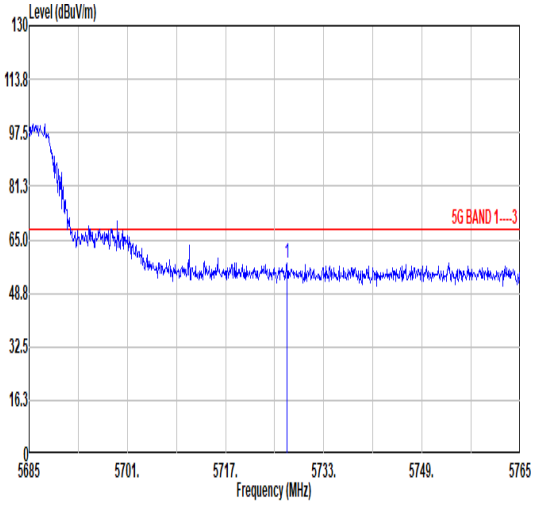
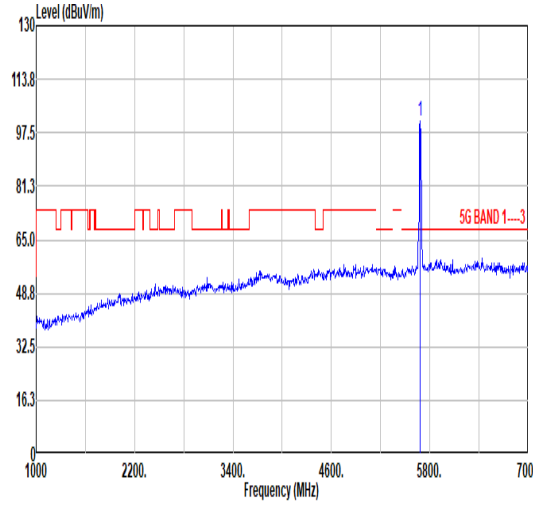
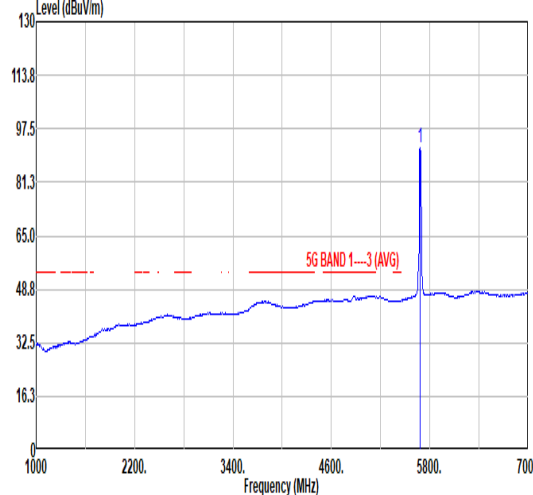


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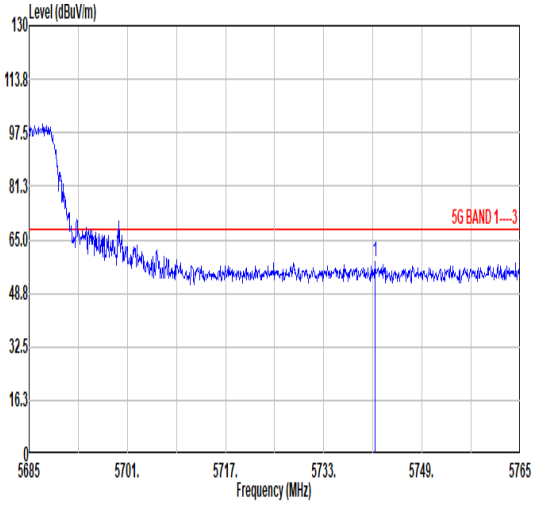
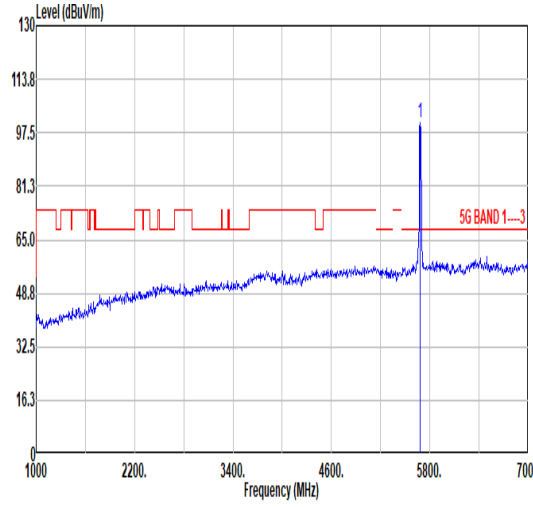
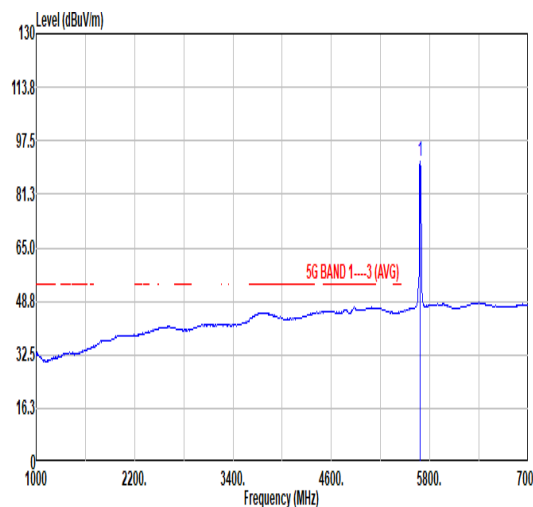
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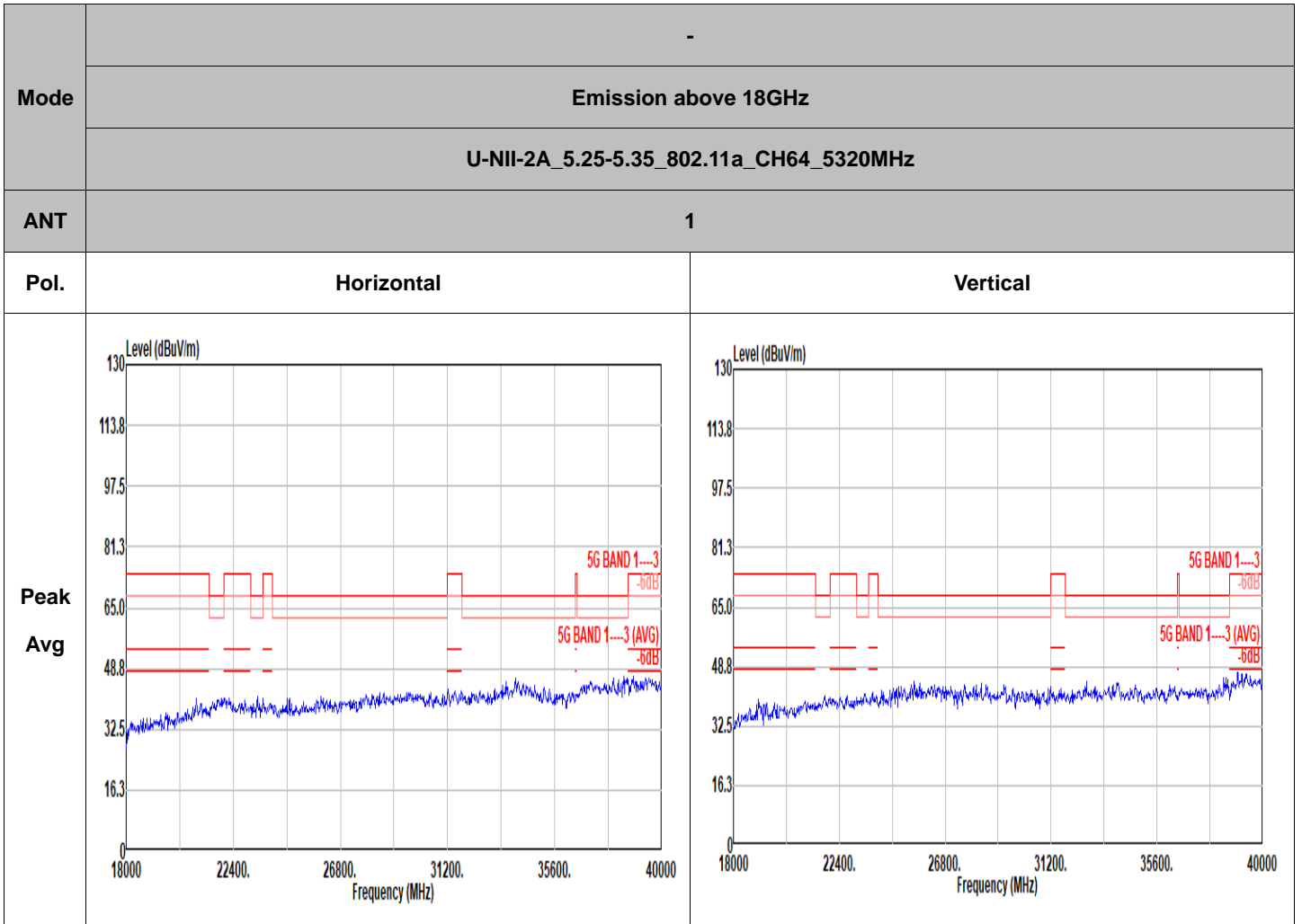
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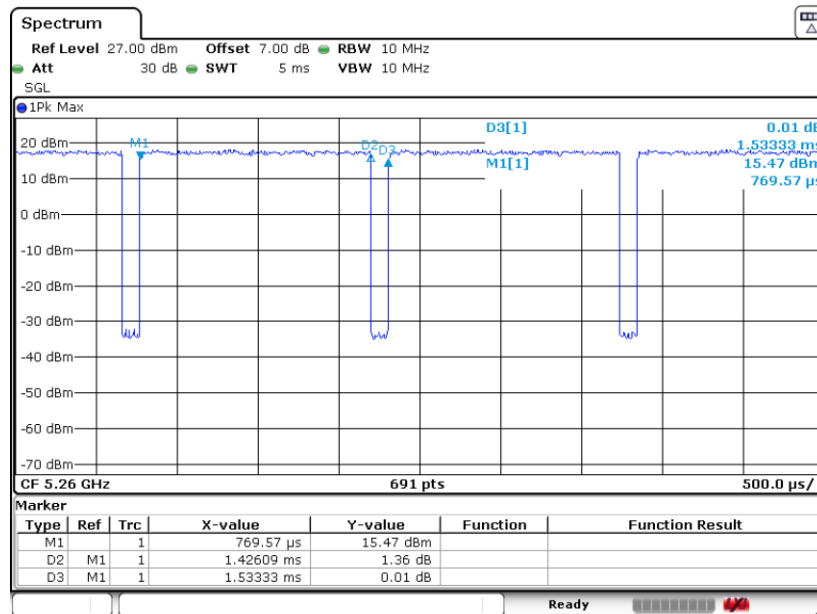
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Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	93.01	1.426	0.701	0.75KHz
802.11n HT20	92.46	1.333	0.750	0.82KHz

802.11a





802.11n HT20

