

#### **PCTEST**

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. 410.290.6652 / Fax 410.290.6654 http://www.pctest.com



## MEASUREMENT REPORT FCC PART 15.407 / ISED RSS-247 UNII OFDMA

**Applicant Name:** Samsung Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

05/04 - 07/06/2020 **Test Site/Location:** 

PCTEST Lab. Columbia, MD, USA

Test Report Serial No.: 1M2005040080-08.A3L

FCC ID: A3LSMF707U

IC: 649E-SMF707U

APPLICANT: Samsung Electronics Co., Ltd.

**Application Type:** Certification Model: SM-F707U

Additional Model(s): SM-F707U1, SM-F707W

HVIN: SM-F707W

**EUT Type:** Portable Handset Frequency Range: 5180 – 5825MHz

Modulation Type: OFDMA

FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s): Part 15 Subpart E (15.407)

ISED Specification: RSS-247 Issue 2

**Test Procedure(s):** ANSI C63.10-2013, KDB 789033 D02 v02r01,

KDB 648474 D03 v01r04, KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.







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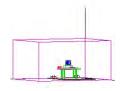


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# **MEASUREMENT REPORT**



	01		AN	NT1	AN	MIMO		MO	
UNII Band	Channel Bandwidth (MHz)	Band Bandwidth	Tx Frequency (MHz)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)	Max. Power (mW)	Max. Power (dBm)
1		5180 - 5240	38.548	15.86	39.446	15.96	77.994	18.92	
2A	20	5260 - 5320	39.719	15.99	39.719	15.99	79.438	19.00	
2C	20	5500 - 5720	38.994	15.91	39.537	15.97	78.531	18.95	
3		5745 - 5825	39.628	15.98	39.628	15.98	79.256	18.99	
1	40	5190 - 5230	44.259	16.46	40.272	16.05	84.429	19.26	
2A		5270 - 5310	43.954	16.43	39.628	15.98	83.582	19.22	
2C	40	5510 - 5710	44.361	16.47	41.210	16.15	85.571	19.32	
3		5755 - 5795	44.361	16.47	41.495	16.18	85.754	19.33	
1		5210	33.806	15.29	32.659	15.14	65.869	18.19	
2A	80	5290	33.806	15.29	32.063	15.06	65.648	18.17	
2C		5530 - 5690	39.537	15.97	43.652	16.40	82.589	19.17	
3		5775	39.628	15.98	42.364	16.27	81.992	19.14	

**EUT Overview** 

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## 1.0 INTRODUCTION

## 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

#### 1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

## 1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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## 2.0 PRODUCT INFORMATION

## 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMF707U**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 0036H, 0025H, 0031H, 0038H

## 2.2 Device Capabilities

This device contains the following capabilities:

800/850/1900 CDMA/EvDO Rev0/A, 1x Advanced (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (n71, n5, n66, n25, n2, n41), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE), NFC, Wireless Power Transfer

В	a	n	d	1
o	а	П	u	

Ch.	Frequency (MHz)
36	5180
:	:
42	5210
:	:
48	5240

## Band 2A

Ch.	Frequency (MHz)
52	5260
:	:
56	5280
:	:
64	5320

## Band 2C

Ch.	Frequency (MHz)
100	5500
• •	•
120	5600
:	:
144	5720

## Band 3

Ch.	Frequency (MHz)
149	5745
:	:
157	5785
:	:
165	5825

Table 2-1. 802.11ax (20MHz) Frequency / Channel Operations

#### Band 1

Ch.	Frequency (MHz)
38	5190
:	:
46	5230

#### Band 2A

Ch.	Frequency (MHz)
54	5270
:	:
62	5310

#### Band 2C

Ch.	Frequency (MHz)
102	5510
:	:
118	5590
:	:
142	5710

Band 3

Ch.	Frequency (MHz)
151	5755
• •	•
159	5795
	•

Table 2-2. 802.11ax (40MHz BW) Frequency / Channel Operations

#### Band 1

Ch.	Frequency (MHz)
42	5210

#### Band 2A

Ch.	Frequency (MHz)			
58	5290			

#### Band 2C

Ch.	Frequency (MHz)			
106	5530			
:				
138	5690			

## Band 3

Ch.	Frequency (MHz)
155	5775

Table 2-3. 802.11ax (80MHz BW) Frequency / Channel Operations

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#### Notes:

1. 5GHz NII operation is possible in 20MHz, and 40MHz, and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10-2013 and KDB 789033 D02 v02r01. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Mode	Antenna	Bandwidth [MHz]	Channel	Tone	Duty Cycle
				26T	99.7
802.11ax	1		36	52T	99.7
NII RU	1 1		30	106T	99.7
		20		242T	99.7
		20		26T	99.7
802.11ax	2		36	52T	99.8
NII RU	_		30	106T	99.7
				242T	99.7
				26T	99.4
802.11ax	MIMO CDD	20	36	52T	99.4
NII RU				106T	99.4
				242T	99.3
				26T	99.7
802.11ax				52T	99.7
NII RU	1		38	106T	99.7
				242T	99.7
		40		484T	99.7
				26T	99.7
802.11ax				52T	99.7
NII RU	2		38	106T	99.7
THI NO				242T	99.7
				484T	99.7
			38	26T	99.4
802.11ax				52T	99.4
NII RU	MIMO CDD	40		106T	99.3
1411110				242T	99.4
				484T	99.3
			42	26T	99.7
				52T	99.7
802.11ax	1			106T	99.7
NII RU	_			242T	99.7
				484T	99.7
		80		996T	99.7
				26T	99.7
				52T	99.7
802.11ax	2		42	106T	99.7
NII RU	-		.=	242T	99.7
				484T	99.7
				996T	99.7
				26T	99.4
	MIMO CDD	80	42	52T	99.4
802.11ax				106T	99.3
NII RU				242T	99.4
				484T	99.3
				996T	99.3

**Table 2-4. Measured Duty Cycles** 

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2. The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		MIMO	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
	11ax (20MHz)	✓	✓	✓	✓	✓	✓
5GHz	11ax (40MHz)	✓	✓	✓	✓	✓	✓
	11ax (80MHz)	✓	✓	✓	✓	✓	✓

Table 2-5. Frequency / Channel Operations

✓ = Support ; × = NOT Support SISO = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – MIMO function

3. This device supports simultaneous transmission operation, which allows for two SISO channels to operate independent of one another in the 2.4GHz (WLAN & BT) and 5GHz bands simultaneously on each antenna. The following tables show the worst case configurations determined during testing. The data for these configurations is contained in this test report. The BT + 5GHz case is not considered as worst case since the BT power is lower than the 2.4GHz WLAN power.

## 2.3 Antenna Description

Following antenna was used for the testing.

Frequency [GHz]	Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)
5.20	-6.5	-13.4
5.30	-6.2	-11.7
5.50	-6.1	-8.2
5.80	-5.9	0.3

Table 2-6. Antenna Peak Gain

## 2.4 Test Configuration

The EUT was tested per the guidance of KDB 789033 D02 v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) Model: EP-N5100 while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

#### 2.5 Software and Firmware

The test was conducted with software version F707USQE0ATEJ installed on the EUT.

## 2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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## 3.0 DESCRIPTION OF TESTS

#### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure......None

#### 3.2 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 474788 D01.

#### 3.3 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

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## 4.0 ANTENNA REQUIREMENTS

## Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of the EUT are permanently attached.
- There are no provisions for connection to an external antenna.

#### Conclusion:

The EUT complies with the requirement of §15.203.

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## 5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.13
Line Conducted Disturbance	3.09
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

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#### TEST EQUIPMENT CALIBRATION DATA 6.0

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	WL25-1	Conducted Cable Set (25GHz)	10/30/2019	Annual	10/30/2020	WL25-1
-	WL40-1	Conducted Cable Set (40GHz)	3/13/2020	Annual	3/13/2021	WL40-1
=	WL25-4	Conducted Cable Set (25GHz)	1/22/2020	Annual	1/22/2021	WL25-4
Agilent	N9038A	MXE EMI Receiver	7/17/2019	Annual	7/17/2020	MY51210133
Anritsu	ML2495A	Power Meter	12/17/2019	Annual	12/17/2020	941001
Anritsu	MA2411B	Pulse Power Sensor	12/4/2019	Annual	12/4/2020	846215
Anritsu	MA2411B	Pulse Power Sensor	8/14/2019	Annual	8/14/2020	1315051
Anritsu	ML2495A	Power Meter	1/15/2020	Annual	1/15/2021	1328004
Anritsu	ML2496A	Power Meter	11/6/2019	Annual	11/6/2020	1405003
Anritsu	MA2411B	Pulse Power Sensor	8/27/2019	Annual	8/27/2020	1339027
Anritsu	MA2411B	Pulse Power Sensor	10/15/2019	Annual	10/15/2020	1339026
Anritsu	MS46322A	Vector Network Analyzer	8/19/2019	Annual	8/19/2020	1521001
Anritsu	36585K-2F	Precision Autocal 2-Port	7/16/2019	Annual	7/16/2020	1628014
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	10/10/2019	Biennial	10/10/2021	121034
EMCO	3160-09	Small Horn (18 - 26.5GHz)	8/9/2018	Biennial	8/9/2020	135427
EMCO	3160-10	Small Horn (26.5 - 40GHz)	8/9/2018	Biennial	8/9/2020	130993
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	2/14/2019	Biennial	2/14/2021	125518
ETS-Lindgren	3115	Double Ridged Guide Horn 750MHz - 18GHz	3/12/2020	Biennial	3/12/2022	150693
Pasternack	NMLC-2	Line Conducted Emissions Cable (NM)	1/9/2020	Annual	1/9/2021	NMLC-2
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	11/1/2019	Annual	11/1/2020	100040
Rohde & Schwarz	TS-PR40	26.5-40 GHz Pre-Amplifier	11/1/2019	Annual	11/1/2020	100037
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	9/23/2019	Annual	9/23/2020	100348
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	7/11/2019	Annual	7/11/2020	102134
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	7/8/2019	Annual	7/8/2020	102133
Sunol	DRH-118	Horn Antenna (1-18 GHz)	8/27/2019	Biennial	8/27/2021	A042511

Table 6-1. Annual Test Equipment Calibration Schedule

#### Note:

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

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## 7.0 TEST RESULTS

## 7.1 Summary

Company Name: <u>Samsung Electronics Co., Ltd.</u>

FCC ID: <u>A3LSMF707U</u>

FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
N/A	RSS-Gen [6.7]	26dB Bandwidth	N/A		PASS	Section 7.2
15.407(e)	RSS-Gen [6.7]	6dB Bandwidth	>500kHz(5725-5850MHz)		PASS	Section 7.3
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [6.2]	Maximum Conducted Output Power	Maximum conducted powers must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])	CONDUCTED	PASS	Section 7.4
15.407 (a.1.iv), (a.2), (a.3)	RSS-247 [6.2]	Maximum Power Spectral Density	Maximum power spectral density must meet the limits detailed in 15.407 (a) (RSS-247 [6.2])		PASS	Section 7.5
15.407(h)	RSS-247 [6.3]	Dynamic Frequency Selection	See DFS Test Report		PASS	See DFS Test Report
15.407(b.1), (2), (3), (4)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])		PASS	Section 7.6
15.205, 15.407(b.1), (4), (5), (6)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Section 7.6

Table 7-1. Summary of Test Results

#### Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "UNII Automation," Version 4.8.
- 5) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 1.3.1.
- 6) Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.

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- 7) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- 8) Only one RU index could be selected at a time so no contiguous or non-contiguous RU's were considered for testing.

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# 7.2 26dB Bandwidth Measurement – 802.11ax OFDMA RSS-Gen [6.2]

#### **Test Overview and Limit**

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

The 26dB bandwidth is used to determine the conducted power limits.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.4 KDB 789033 D02 v02r01 – Section C

#### **Test Settings**

- 1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = approximately 1% of the emission bandwidth
- 3.  $VBW > 3 \times RBW$
- 4. Detector = Peak
- 5. Trace mode = max hold

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

#### **Test Notes**

The 26dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

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# SISO Antenna-1 26 dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
	5180	36	ax (20MHz)	26T	MCS0	18.56
	5200	40	ax (20MHz)	26T	MCS0	20.06
d 1	5240	48	ax (20MHz)	26T	MCS0	19.94
Band 1	5190	38	ax (40MHz)	26T	MCS0	39.69
_	5230	46	ax (40MHz)	26T	MCS0	39.81
	5210	42	ax (80MHz)	26T	MCS0	78.54
	5260	52	ax (20MHz)	26T	MCS0	19.83
d	5280	56	ax (20MHz)	26T	MCS0	18.50
Band 2A	5320	64	ax (20MHz)	26T	MCS0	19.88
anc	5270	54	ax (40MHz)	26T	MCS0	38.07
	5310	62	ax (40MHz)	26T	MCS0	38.11
	5290	58	ax (80MHz)	26T	MCS0	78.12
	5500	100	ax (20MHz)	26T	MCS0	18.39
	5600	120	ax (20MHz)	26T	MCS0	18.52
	5720	144	ax (20MHz)	26T	MCS0	20.16
၁၃	5510	102	ax (40MHz)	26T	MCS0	37.89
Band 2C	5590	118	ax (40MHz)	26T	MCS0	38.05
Ba	5710	142	ax (40MHz)	26T	MCS0	37.79
	5530	106	ax (80MHz)	26T	MCS0	77.78
	5610	122	ax (80MHz)	26T	MCS0	81.76
	5690	138	ax (80MHz)	26T	MCS0	81.41

Table 7-2. Conducted Bandwidth Measurements SISO ANT1 (26 Tones)

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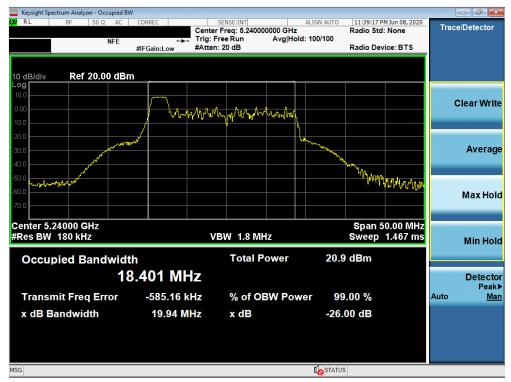
Plot 7-1. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



Plot 7-2. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

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Plot 7-3. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



Plot 7-4. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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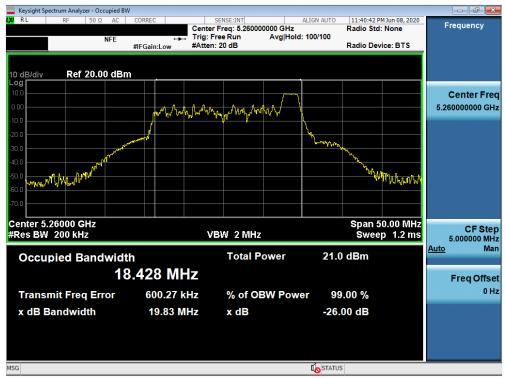
Plot 7-5. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



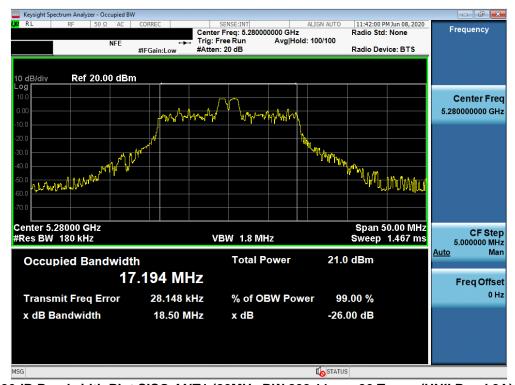
Plot 7-6. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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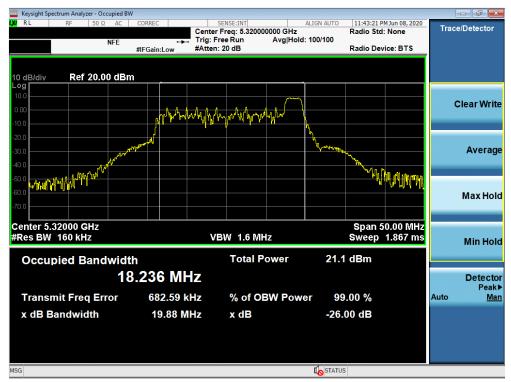
Plot 7-7. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-8. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

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Plot 7-9. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)



Plot 7-10. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF707U	PROAL Size part at 🕞 e	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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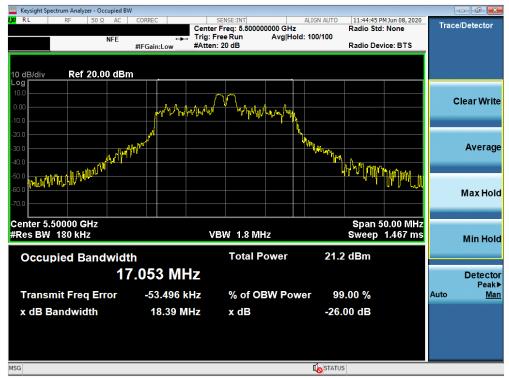
Plot 7-11. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



Plot 7-12. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-13. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-14. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 120)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-15. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



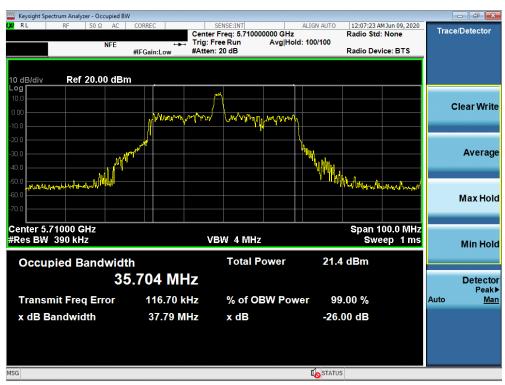
Plot 7-16. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 102)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-17. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



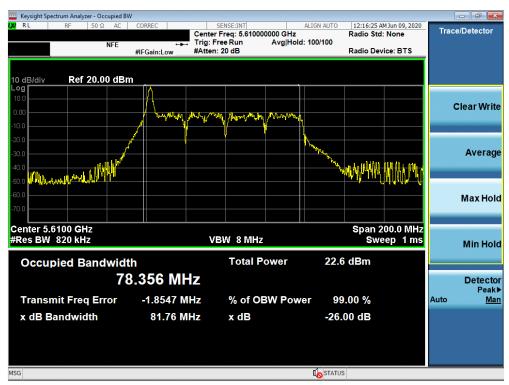
Plot 7-18. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-19. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-20. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-21. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

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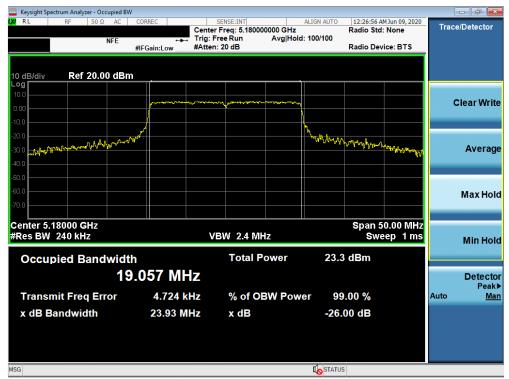
# SISO Antenna-1 26 dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
	5180	36	ax (20MHz)	242T	MCS0	23.93
	5200	40	ax (20MHz)	242T	MCS0	22.94
d 1	5240	48	ax (20MHz)	242T	MCS0	24.41
Band 1	5190	38	ax (40MHz)	484T	MCS0	62.31
	5230	46	ax (40MHz)	484T	MCS0	44.75
	5210	42	ax (80MHz)	996T	MCS0	86.17
	5260	52	ax (20MHz)	242T	MCS0	25.79
	5280	56	ax (20MHz)	242T	MCS0	24.93
Band 2A	5320	64	ax (20MHz)	242T	MCS0	23.83
Banc	5270	54	ax (40MHz)	484T	MCS0	47.21
	5310	62	ax (40MHz)	484T	MCS0	51.56
	5290	58	ax (80MHz)	996T	MCS0	87.76
	5500	100	ax (20MHz)	242T	MCS0	23.76
	5600	120	ax (20MHz)	242T	MCS0	23.58
	5720	144	ax (20MHz)	242T	MCS0	24.00
ပ္မ	5510	102	ax (40MHz)	484T	MCS0	45.37
Band 2C	5590	118	ax (40MHz)	484T	MCS0	44.81
Ba	5710	142	ax (40MHz)	484T	MCS0	44.46
	5530	106	ax (80MHz)	996T	MCS0	86.87
	5610	122	ax (80MHz)	996T	MCS0	86.15
	5690	138	ax (80MHz)	996T	MCS0	86.20

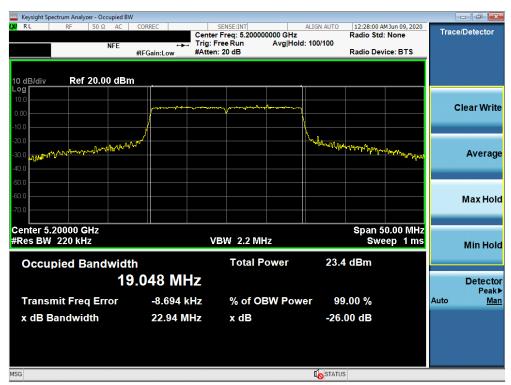
Table 7-3. Conducted Bandwidth Measurements SISO ANT1 (Full Tones)

FCC ID: A3LSMF707U	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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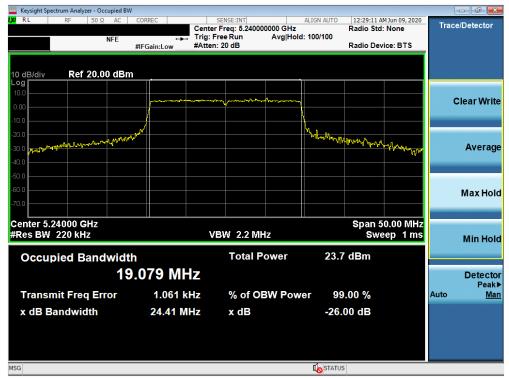
Plot 7-22. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 36)



Plot 7-23. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 40)

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Plot 7-24. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 48)



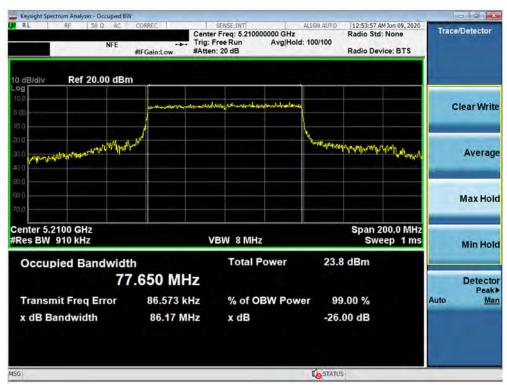
Plot 7-25. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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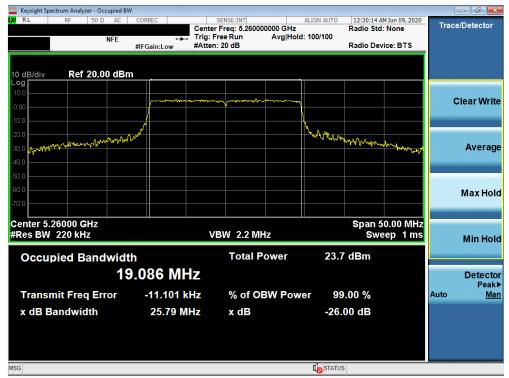
Plot 7-26. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 46)



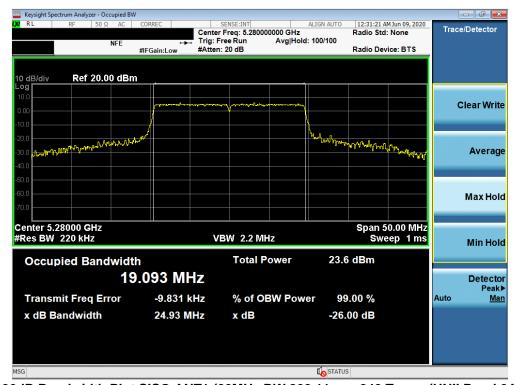
Plot 7-27. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 996 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-28. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 52)



Plot 7-29. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-30. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 64)



Plot 7-31. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-32. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 62)



Plot 7-33. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-34. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 100)



Plot 7-35. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-36. 26dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 144)



Plot 7-37. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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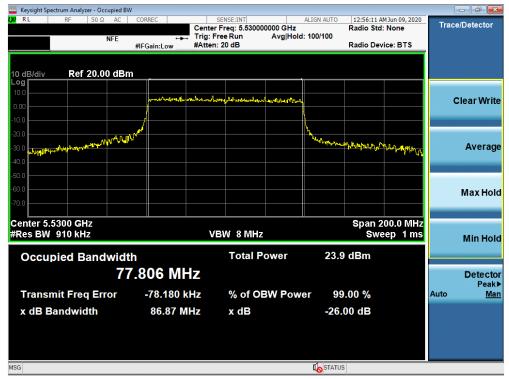
Plot 7-38. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 2C) - Ch. 118)



Plot 7-39. 26dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

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Plot 7-40. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 106)



Plot 7-41. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-42. 26dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 138)

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# SISO Antenna-2 26dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
	5180	36	ax (20MHz)	26T	MCS0	18.66
	5200	40	ax (20MHz)	26T	MCS0	18.51
Band 1	5240	48	ax (20MHz)	26T	MCS0	20.00
Ban	5190	38	ax (40MHz)	26T	MCS0	39.88
_	5230	46	ax (40MHz)	26T	MCS0	38.04
	5210	42	ax (80MHz)	26T	MCS0	78.49
	5260	52	ax (20MHz)	26T	MCS0	18.49
d	5280	56	ax (20MHz)	26T	MCS0	19.98
Band 2A	5320	64	ax (20MHz)	26T	MCS0	18.48
anc	5270	54	ax (40MHz)	26T	MCS0	39.81
ш	5310	62	ax (40MHz)	26T	MCS0	38.03
	5290	58	ax (80MHz)	26T	MCS0	81.61
	5500	100	ax (20MHz)	26T	MCS0	18.58
	5600	120	ax (20MHz)	26T	MCS0	18.37
	5720	144	ax (20MHz)	26T	MCS0	18.63
2C	5510	102	ax (40MHz)	26T	MCS0	39.74
Band 2C	5590	118	ax (40MHz)	26T	MCS0	39.97
Ba	5710	142	ax (40MHz)	26T	MCS0	37.96
	5530	106	ax (80MHz)	26T	MCS0	78.14
	5610	122	ax (80MHz)	26T	MCS0	78.09
	5690	138	ax (80MHz)	26T	MCS0	81.98

Table 7-4. Conducted Bandwidth Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMF707U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-43. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 36)



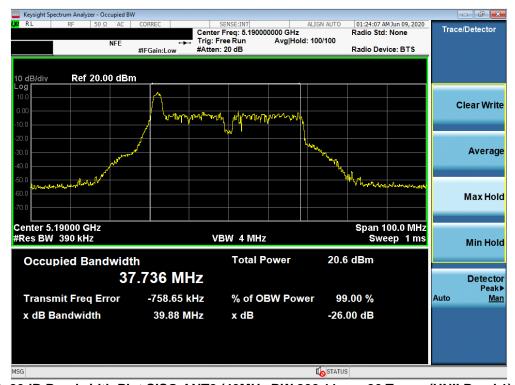
Plot 7-44. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-45. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 48)



Plot 7-46. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: A3LSMF707U	Prout liste part of ®	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-47. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 1) - Ch. 46)



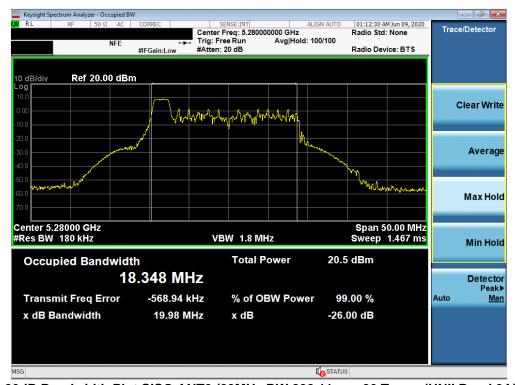
Plot 7-48. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 40 of 074
1M2005040080-08.A3L	05/04 - 07/06/2020	Portable Handset		Page 42 of 271
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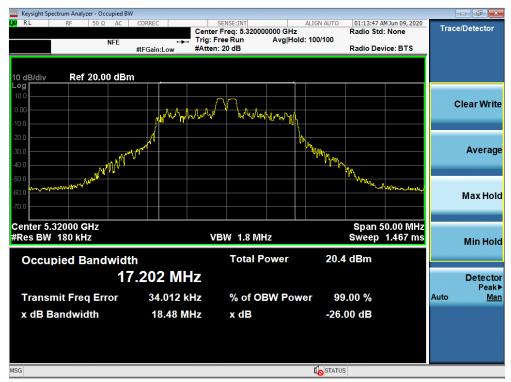
Plot 7-49. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 52)



Plot 7-50. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-51. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 64)



Plot 7-52. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-53. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 62)



Plot 7-54. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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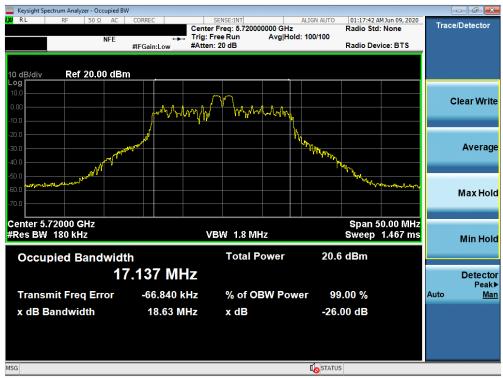
Plot 7-55. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 100)



Plot 7-56. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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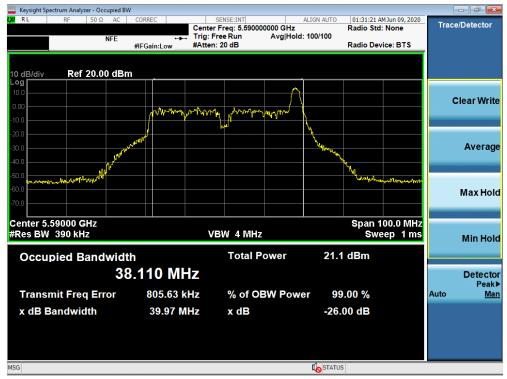
Plot 7-57. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 144)



Plot 7-58. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 47 of 274
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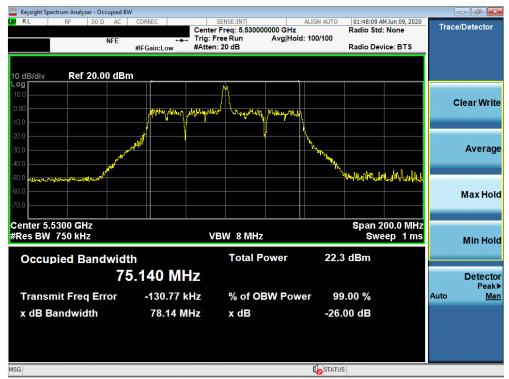
Plot 7-59. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 118)



Plot 7-60. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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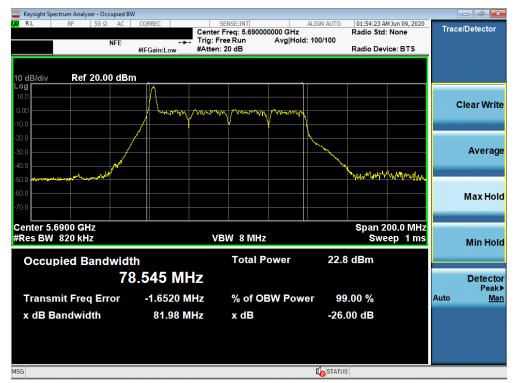
Plot 7-61. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 106)



Plot 7-62. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-63. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF707U	POTEST'	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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# SISO Antenna-2 26dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 26dB Bandwidth [MHz]
	5180	36	ax (20MHz)	242T	MCS0	22.25
	5200	40	ax (20MHz)	242T	MCS0	22.30
d 1	5240	48	ax (20MHz)	242T	MCS0	22.62
Band 1	5190	38	ax (40MHz)	484T	MCS0	43.57
	5230	46	ax (40MHz)	484T	MCS0	44.43
	5210	42	ax (80MHz)	996T	MCS0	85.19
	5260	52	ax (20MHz)	242T	MCS0	22.85
	5280	56	ax (20MHz)	242T	MCS0	22.02
Band 2A	5320	64	ax (20MHz)	242T	MCS0	22.23
Banc	5270	54	ax (40MHz)	484T	MCS0	43.96
	5310	62	ax (40MHz)	484T	MCS0	44.05
	5290	58	ax (80MHz)	996T	MCS0	85.48
	5500	100	ax (20MHz)	242T	MCS0	22.50
	5600	120	ax (20MHz)	242T	MCS0	21.88
	5720	144	ax (20MHz)	242T	MCS0	21.67
ပ္ထ	5510	102	ax (40MHz)	484T	MCS0	43.72
Band 2C	5590	118	ax (40MHz)	484T	MCS0	44.12
B	5710	142	ax (40MHz)	484T	MCS0	43.69
	5530	106	ax (80MHz)	996T	MCS0	85.48
	5610	122	ax (80MHz)	996T	MCS0	86.08
	5690	138	ax (80MHz)	996T	MCS0	85.92

Table 7-5. Conducted Bandwidth Measurements SISO ANT2 (Full Tones)

FCC ID: A3LSMF707U	POTEST'	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-64. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 36)



Plot 7-65. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 40)

FCC ID: A3LSMF707U	Prout liste part of ®	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-66. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 1) - Ch. 48)



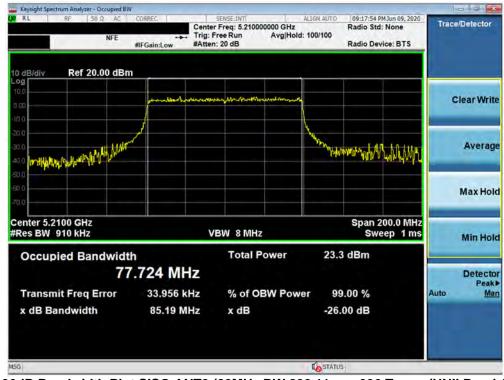
Plot 7-67. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 38)

FCC ID: A3LSMF707U	Prout liste part of ®	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 52 of 274
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Plot 7-68. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 1) - Ch. 46)



Plot 7-69. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 1) - Ch. 42)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-70. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 52)

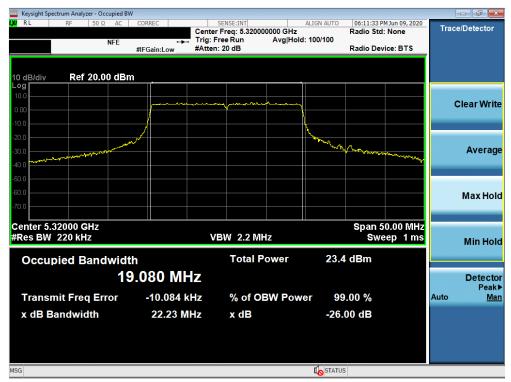


Plot 7-71. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 56)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-72. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2A) - Ch. 64)



Plot 7-73. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 54)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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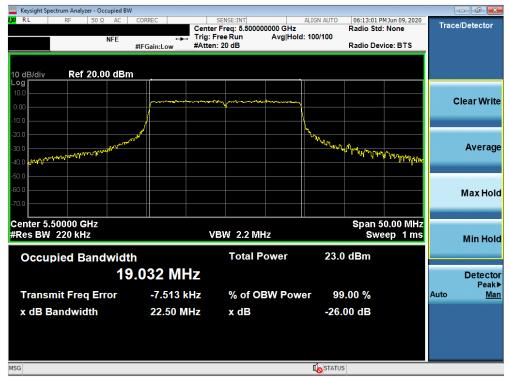
Plot 7-74. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2A) - Ch. 62)



Plot 7-75. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2A) - Ch. 58)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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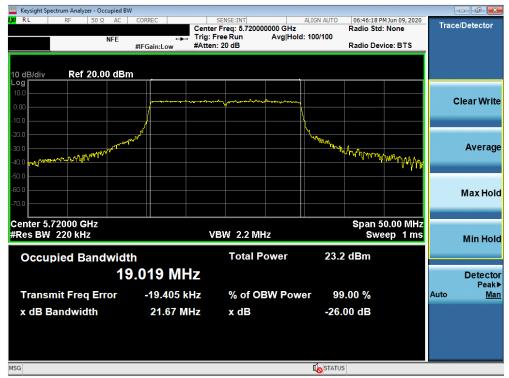
Plot 7-76. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 100)



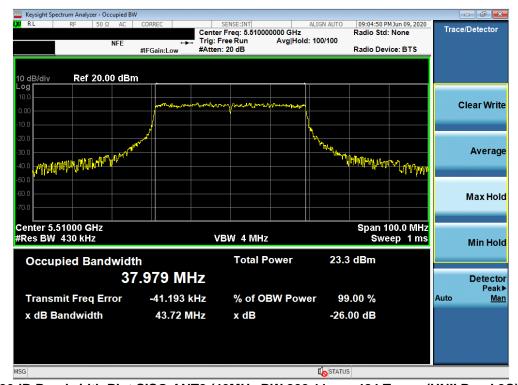
Plot 7-77. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-78. 26dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 2C) - Ch. 144)



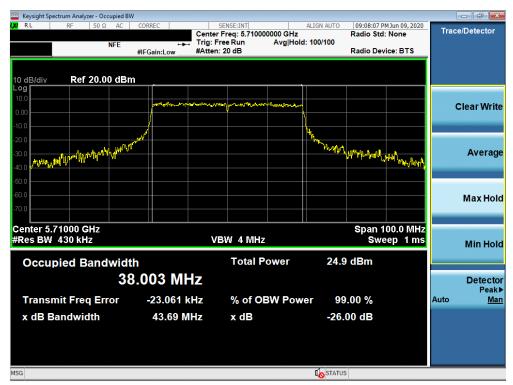
Plot 7-79. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 50 of 274
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Plot 7-80. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 2C) - Ch. 118)



Plot 7-81. 26dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-82. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 106)



Plot 7-83. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax – 996 Tones (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-84. 26dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 2C) - Ch. 138)

FCC ID: A3LSMF707U	POTEST'	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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## 7.3 6dB Bandwidth Measurement – 802.11ax OFDMA

§15.407 (e); RSS-Gen [6.7]

### **Test Overview and Limit**

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 6dB bandwidth.

### In the 5.725 – 5.850GHz band, the 6dB bandwidth must be ≥ 500 kHz.

### **Test Procedure Used**

ANSI C63.10-2013 – Section 6.9.2 KDB 789033 D02 v02r01 – Section C

### **Test Settings**

- 1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 100 kHz
- 3.  $VBW \ge 3 \times RBW$
- 4. Detector = Peak
- Trace mode = max hold
- 6. Sweep = auto couple

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-2. Test Instrument & Measurement Setup

### **Test Notes**

The 6dB Bandwidth measurement for each channel was measured with the RU index showing the highest conducted power.

FCC ID: A3LSMF707U	PROATISTS PROATISTS PROATISTS PORT OF STREET	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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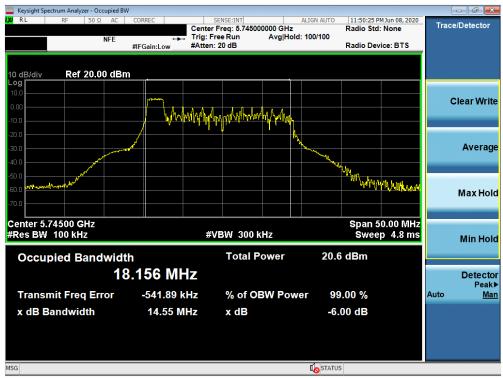
# SISO Antenna-1 6 dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	26T	MCS0	14.55
	5785	157	ax (20MHz)	26T	MCS0	2.13
9 g	5825	165	ax (20MHz)	26T	MCS0	2.69
Band	5755	151	ax (40MHz)	26T	MCS0	2.20
	5795	159	ax (40MHz)	26T	MCS0	2.17
	5775	155	ax (80MHz)	26T	MCS0	2.84

Table 7-6. Conducted Bandwidth Measurements SISO ANT1 (26 Tones)

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Plot 7-85. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-86. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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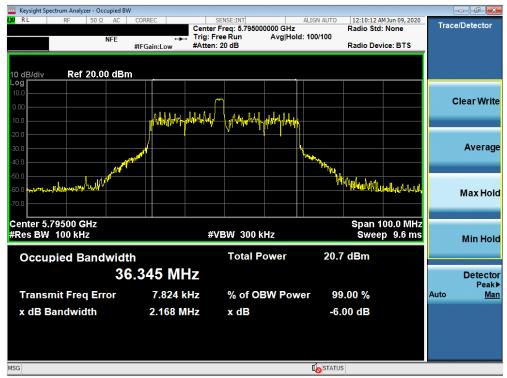
Plot 7-87. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



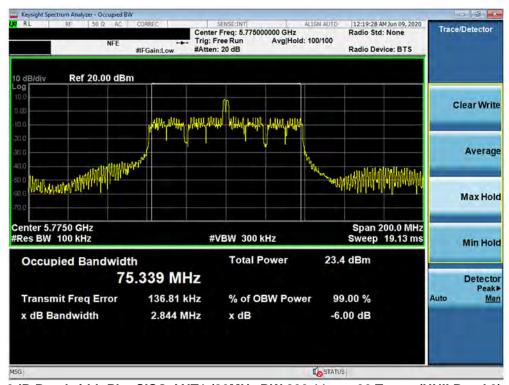
Plot 7-88. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

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Plot 7-89. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-90. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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# SISO Antenna-1 6 dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	242T	MCS0	19.07
	5785	157	ax (20MHz)	242T	MCS0	19.08
d 3	5825	165	ax (20MHz)	242T	MCS0	19.10
Band	5755	151	ax (40MHz)	484T	MCS0	38.21
	5795	159	ax (40MHz)	484T	MCS0	38.16
	5775	155	ax (80MHz)	996T	MCS0	78.11

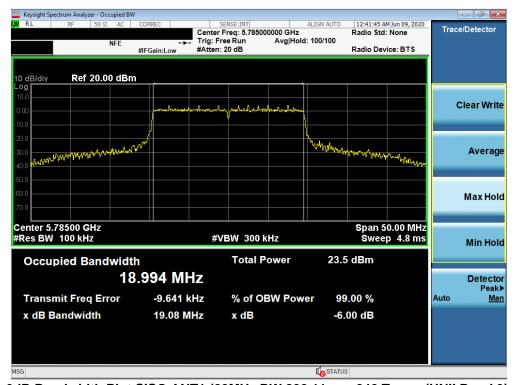
Table 7-7. Conducted Bandwidth Measurements SISO ANT1 (Full Tones)

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Plot 7-91. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 149)



Plot 7-92. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-93. 6dB Bandwidth Plot SISO ANT1 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 165)



Plot 7-94. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-95. 6dB Bandwidth Plot SISO ANT1 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 159)



Plot 7-96. 6dB Bandwidth Plot SISO ANT1 (80MHz BW 802.11ax - 996 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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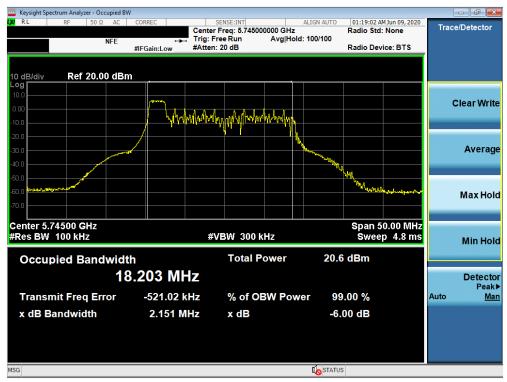
# SISO Antenna-2 6dB Bandwidth Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	26T	MCS0	2.15
	5785	157	ax (20MHz)	26T	MCS0	7.62
д Э	5825	165	ax (20MHz)	26T	MCS0	2.11
Band	5755	151	ax (40MHz)	26T	MCS0	2.17
_	5795	159	ax (40MHz)	26T	MCS0	2.16
	5775	155	ax (80MHz)	26T	MCS0	2.92

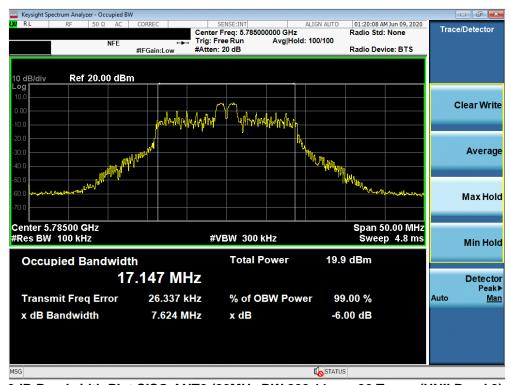
Table 7-8. Conducted Bandwidth Measurements SISO ANT2 (26 Tones)

FCC ID: A3LSMF707U	PCTEST'	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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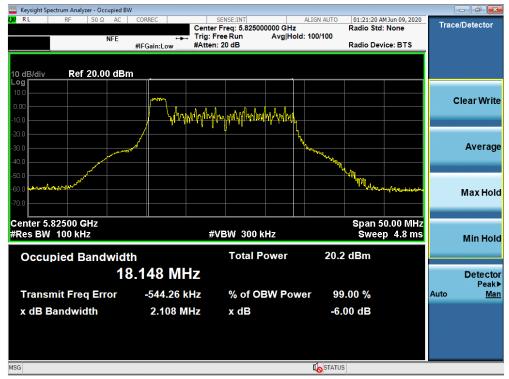
Plot 7-97. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 149)



Plot 7-98. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 157)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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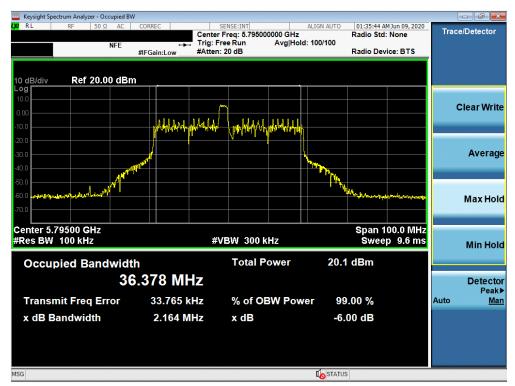
Plot 7-99. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 165)



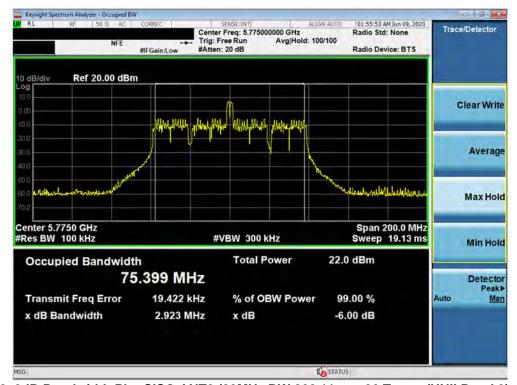
Plot 7-100. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 151)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-101. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 159)



Plot 7-102. 6dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 26 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF707U	PROJECTES T	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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# SISO Antenna-2 6dB Bandwidth Measurements (Full Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]
	5745	149	ax (20MHz)	242T	MCS0	19.07
	5785	157	ax (20MHz)	242T	MCS0	19.08
о 9	5825	165	ax (20MHz)	242T	MCS0	19.08
Band	5755	151	ax (40MHz)	484T	MCS0	38.18
	5795	159	ax (40MHz)	484T	MCS0	38.20
	5775	155	ax (80MHz)	996T	MCS0	78.16

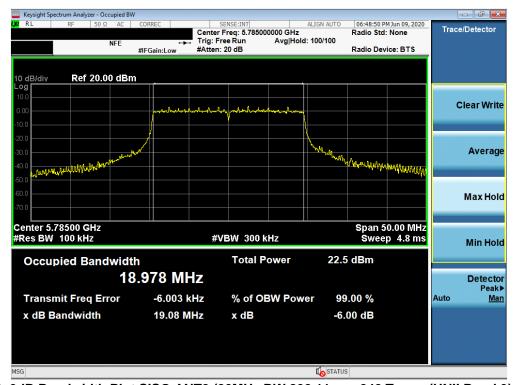
Table 7-9. Conducted Bandwidth Measurements SISO ANT2 (Full Tones)

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Plot 7-103. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 149)

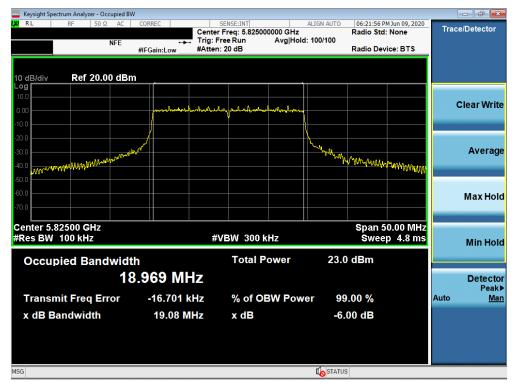


Plot 7-104. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax – 242 Tones (UNII Band 3) – Ch. 157)

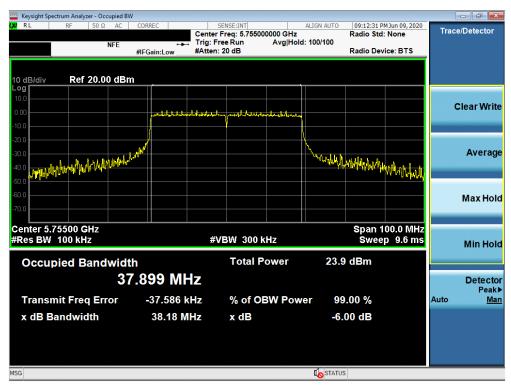
FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogg 77 of 074
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Plot 7-105. 6dB Bandwidth Plot SISO ANT2 (20MHz BW 802.11ax - 242 Tones (UNII Band 3) - Ch. 165)



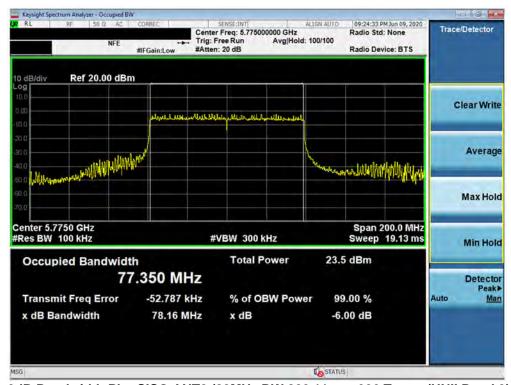
Plot 7-106. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax – 484 Tones (UNII Band 3) – Ch. 151)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-107. 6dB Bandwidth Plot SISO ANT2 (40MHz BW 802.11ax - 484 Tones (UNII Band 3) - Ch. 159)



Plot 7-108. 6dB Bandwidth Plot SISO ANT2 (80MHz BW 802.11ax - 996 Tones (UNII Band 3) - Ch. 155)

FCC ID: A3LSMF707U	PROJECT ST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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# 7.4 UNII Output Power Measurement – 802.11ax OFDMA §15.407(a.1.iv) §15.407(a.2) §15.407(a.3); RSS-247 [6.2]

#### **Test Overview and Limits**

A transmitter antenna terminal of the EUT is connected to the input of an RF pulse power sensor. Measurement is made using a broadband average power meter while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

In the 5.15 - 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm). The maximum e.i.r.p. shall not exceed the lesser of 200 mW or  $10 + 10 \log 10$ B, dBm.

In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm +  $10\log_{10}(26dB \ BW) = 11 \ dBm + 10\log_{10}(26.34) = 25.21dBm$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.47 – 5.725GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) or 11 dBm +  $10\log_{10}(26dB \ BW) = 11 \ dBm + 10\log_{10}(19.37) = 23.87dBm$ . The maximum e.i.r.p. shall not exceed the lesser of 1.0 W or 17 + 10 log10B, dBm.

In the 5.725 - 5.850 GHz band, the maximum permissible conducted output power is 1W (30 dBm). The maximum e.i.r.p. is 36 dBm.

#### **Test Procedure Used**

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G KDB 789033 D02 v02r01 – Section E)3)b) Method PM-G ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique KDB 662911 v02r01 – Section E)1) Measure-and-Sum Technique

#### **Test Settings**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

#### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-3. Test Instrument & Measurement Setup

FCC ID: A3LSMF707U	PROAT lobe port of 8	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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### SISO Antenna-1 Conducted Output Power Measurements (26 Tones)

		Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p.
						0	4	8	[dBm]	Margin [dB]	[]	[]		a. g [a=]
N		5180	36	AVG	26T	11.61	11.91	11.83	23.98	-12.07	-6.50	5.41	22.39	-16.98
I :	$\subseteq$	5200	40	AVG	26T	11.94	11.69	11.83	23.98	-12.04	-6.50	5.44	22.39	-16.95
≥ .	¥	5240	48	AVG	26T	11.98	11.66	11.63	23.98	-12.00	-6.20	5.78	22.39	-16.61
0	ĕ	5260	52	AVG	26T	11.87	11.97	11.98	23.47	-11.49	-6.20	5.78	29.47	-23.69
(2)	<u> </u>	5280	56	AVG	26T	11.74	11.99	11.71	23.47	-11.48	-6.20	5.79	29.47	-23.68
N	ष्ट	5320	64	AVG	26T	11.71	11.59	11.92	23.47	-11.55	-6.20	5.72	29.47	-23.75
I	늗	5500	100	AVG	26T	11.66	11.83	11.62	22.80	-10.97	-6.10	5.73	28.80	-23.07
<b>5</b>	m	5600	120	AVG	26T	11.90	11.97	11.94	22.80	-10.83	-6.10	5.87	28.80	-22.93
5	_	5720	144	AVG	26T	11.94	11.62	11.99	22.80	-10.81	-6.10	5.89	28.80	-22.91
		5745	149	AVG	26T	11.96	11.84	11.71	30.00	-18.04	-5.90	6.06	-	-
		5785	157	AVG	26T	11.84	11.83	11.62	30.00	-18.16	-5.90	5.94	-	-
		5825	165	AVG	26T	11.57	11.98	11.91	30.00	-18.02	-5.90	6.08	-	-

Table 7-10. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Z		Freq [MHz] Channel	nannel Detector	ctor Tones	RU Index			Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.	
Ÿ,						0	8	17	[dBm]	Margin [dB]	[GDI]	[ubiii]	Linnit [abin]	
₹	갂	5190	38	AVG	26T	11.18	11.39	11.47	23.98	-12.51	-6.50	4.97	22.39	-17.42
5	Ō	5230	46	AVG	26T	11.48	11.14	11.01	23.98	-12.50	-6.20	5.28	22.39	-17.11
40N	₹	5270	54	AVG	26T	11.24	11.26	11.22	23.47	-12.21	-6.20	5.06	29.47	-24.41
	台	5310	62	AVG	26T	11.27	11.46	11.03	23.47	-12.01	-6.20	5.26	29.47	-24.21
¥	č	5510	102	AVG	26T	11.07	11.37	11.34	22.80	-11.43	-6.10	5.27	28.80	-23.53
六	a	5590	118	AVG	26T	11.05	11.31	11.13	22.80	-11.49	-6.10	5.21	28.80	-23.59
<b>5</b> G	<b>B</b>	5710	142	AVG	26T	11.33	11.36	11.19	22.80	-11.44	-6.10	5.26	28.80	-23.54
٠,		5755	151	AVG	26T	11.47	11.16	11.23	30.00	-18.53	-5.90	5.57	-	-
		5795	159	AVG	26T	11.30	11.47	11.45	30.00	-18.53	-5.90	5.57	-	-

Table 7-11. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

Z	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit		Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	•
<b>₹€</b>					0	18	36	[dBm]	Margin [dB]	[uDi]	[ubiii]	Linnit [abin]	margin [ab]
<b>6 9</b>	5210	42	AVG	26T	11.38	11.85	11.55	23.98	-12.13	-6.50	5.35	22.39	-17.04
® ≥ p	5290	58	AVG	26T	11.54	11.80	11.43	23.47	-11.67	-6.20	5.60	29.47	-23.87
1 P =	5530	106	AVG	26T	11.56	11.58	11.36	22.80	-11.22	-6.10	5.48	28.80	-23.32
G G	5610	122	AVG	26T	11.85	11.79	11.38	22.80	-10.95	-6.10	5.75	28.80	-23.05
5	5690	138	AVG	26T	11.80	11.78	11.51	22.80	-11.00	-6.10	5.70	28.80	-23.10
	5775	155	AVG	26T	11.79	11.85	11.68	30.00	-18.15	-5.90	5.95	-	-

Table 7-12. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

FCC ID: A3LSMF707U	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### SISO Antenna-1 Conducted Output Power Measurements (52 Tones)

	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
					37	39	40	[dBm]	Margin [dB]	[GDI]	[ubiii]	Linnit [aDini]	margin [ab]
N _	5180	36	AVG	52T	12.85	12.88	12.79	23.98	-11.10	-6.50	6.38	22.39	-16.01
I C	5200	40	AVG	52T	12.99	12.97	12.94	23.98	-10.99	-6.50	6.49	22.39	-15.90
≥≒	5240	48	AVG	52T	12.95	12.98	12.92	23.98	-11.00	-6.20	6.78	22.39	-15.61
2	5260	52	AVG	52T	12.98	12.99	12.97	23.47	-10.48	-6.20	6.79	29.47	-22.68
<u> </u>	5280	56	AVG	52T	12.80	12.71	12.79	23.47	-10.67	-6.20	6.60	29.47	-22.87
N D	5320	64	AVG	52T	12.98	12.89	12.86	23.47	-10.49	-6.20	6.78	29.47	-22.69
エ た	5500	100	AVG	52T	12.89	12.87	12.68	22.80	-9.91	-6.10	6.79	28.80	-22.01
G W	5600	120	AVG	52T	12.98	12.85	12.65	22.80	-9.82	-6.10	6.88	28.80	-21.92
5	5720	144	AVG	52T	12.91	12.96	12.93	22.80	-9.84	-6.10	6.86	28.80	-21.94
	5745	149	AVG	52T	12.95	12.76	12.73	30.00	-17.05	-5.90	7.05	-	-
	5785	157	AVG	52T	12.74	12.86	12.62	30.00	-17.14	-5.90	6.96	-	-
	5825	165	AVG	52T	12.62	12.60	12.57	30.00	-17.38	-5.90	6.72	-	-

Table 7-13. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

N		Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
Ŧ						37	40	44	[dBm]	Margin [dB]	[GDI]	[ubiii]	Limit [abiii]	wargiii [ub]
⇟	th	5190	38	AVG	52T	12.57	12.94	12.61	23.98	-11.04	-6.50	6.44	22.39	-15.95
5	þ	5230	46	AVG	52T	12.87	12.72	12.97	23.98	-11.01	-6.20	6.77	22.39	-15.62
4	Σ	5270	54	AVG	52T	12.80	12.89	12.86	23.47	-10.58	-6.20	6.69	29.47	-22.78
$\sim$	þ	5310	62	AVG	52T	12.78	12.97	12.73	23.47	-10.50	-6.20	6.77	29.47	-22.70
7	Ľ	5510	102	AVG	52T	12.87	12.99	12.96	22.80	-9.81	-6.10	6.89	28.80	-21.91
六	a	5590	118	AVG	52T	12.98	12.68	12.62	22.80	-9.82	-6.10	6.88	28.80	-21.92
<b>5</b> G		5710	142	AVG	52T	12.83	12.96	12.99	22.80	-9.81	-6.10	6.89	28.80	-21.91
~,		5755	151	AVG	52T	12.73	12.91	12.94	30.00	-17.06	-5.90	7.04	-	-
		5795	159	AVG	52T	12.90	12.96	12.62	30.00	-17.04	-5.90	7.06	-	-

Table 7-14. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

z	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit		Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	•
₹ €					37	44	52	[dBm]	Margin [dB]	[uDi]	[GDIII]	Linnit [abin]	margin [ab]
5 5	5210	42	AVG	52T	13.37	13.26	12.99	23.98	-10.61	-6.50	6.87	22.39	-15.52
8 ≥	5290	58	AVG	52T	13.38	13.31	13.36	23.47	-10.09	-6.20	7.18	29.47	-22.29
4 E	5530	106	AVG	52T	13.34	13.38	13.24	22.80	-9.42	-6.10	7.28	28.80	-21.52
Ba G	5610	122	AVG	52T	13.36	13.24	13.27	22.80	-9.44	-6.10	7.26	28.80	-21.54
5	5690	138	AVG	52T	13.35	13.38	13.02	22.80	-9.42	-6.10	7.28	28.80	-21.52
	5775	155	AVG	52T	13.35	13.34	13.28	30.00	-16.65	-5.90	7.45	-	-

Table 7-15. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

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### SISO Antenna-1 Conducted Output Power Measurements (106 Tones)

		Freq [MHz]	Channel	Detector	Tones	RU II	ndex	Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
						53	54	[dBm]	Margin [dB]	[]	[]		
N		5180	36	AVG	106T	14.88	14.73	23.98	-9.10	-6.50	8.38	22.39	-14.01
I	7	5200	40	AVG	106T	14.62	14.68	23.98	-9.30	-6.50	8.18	22.39	-14.21
Σ	d	5240	48	AVG	106T	14.73	14.66	23.98	-9.25	-6.20	8.53	22.39	-13.86
0	_	5260	52	AVG	106T	14.78	14.85	23.47	-8.62	-6.20	8.65	29.47	-20.82
(2	<u> </u>	5280	56	AVG	106T	14.69	14.95	23.47	-8.52	-6.20	8.75	29.47	-20.72
N	ס	5320	64	AVG	106T	14.61	14.66	23.47	-8.81	-6.20	8.46	29.47	-21.01
I	a	5500	100	AVG	106T	14.70	14.63	22.80	-8.10	-6.10	8.60	28.80	-20.20
C	m	5600	120	AVG	106T	14.97	14.89	22.80	-7.83	-6.10	8.87	28.80	-19.93
2(	_	5720	144	AVG	106T	14.79	14.74	22.80	-8.01	-6.10	8.69	28.80	-20.11
		5745	149	AVG	106T	14.97	14.81	30.00	-15.03	-5.90	9.07	-	-
		5785	157	AVG	106T	14.74	14.66	30.00	-15.26	-5.90	8.84	-	-
		5825	165	AVG	106T	14.69	14.58	30.00	-15.31	-5.90	8.79	-	-

Table 7-16. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

Z		Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
÷						53	54	56	[dBm]	Margin [dB]	[GDI]	[ubiii]	Limit [abiii]	margin [ab]
⇟	무	5190	38	AVG	106T	15.08	15.31	15.06	23.98	-8.67	-6.50	8.81	22.39	-13.58
5	O	5230	46	AVG	106T	15.36	14.77	15.37	23.98	-8.61	-6.20	9.17	22.39	-13.22
4	Έ	5270	54	AVG	106T	14.81	14.94	15.30	23.47	-8.17	-6.20	9.10	29.47	-20.37
$\sim$	<del>6</del>	5310	62	AVG	106T	14.78	14.98	15.05	23.47	-8.42	-6.20	8.85	29.47	-20.62
무	Ĕ	5510	102	AVG	106T	15.35	15.38	15.12	22.80	-7.42	-6.10	9.28	28.80	-19.52
六	a	5590	118	AVG	106T	14.61	14.69	15.14	22.80	-7.66	-6.10	9.04	28.80	-19.76
<b>5</b> G	$\mathbf{m}$	5710	142	AVG	106T	15.33	15.37	15.03	22.80	-7.43	-6.10	9.27	28.80	-19.53
4,		5755	151	AVG	106T	15.13	15.19	15.39	30.00	-14.61	-5.90	9.49	-	-
		5795	159	AVG	106T	15.34	15.38	15.03	30.00	-14.62	-5.90	9.48	-	-

Table 7-17. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

z	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit		Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p.
₹ €					53	56	60	[dBm]	Margin [dB]	[uDi]	[ubiii]	Linin [abin]	margin [ab]
ĕ <del>İ</del>	5210	42	AVG	106T	15.29	14.83	15.26	23.98	-8.69	-6.50	8.79	22.39	-13.60
<u>∞</u> ≥	5290	58	AVG	106T	15.16	15.29	15.00	23.47	-8.18	-6.20	9.09	29.47	-20.38
우호	5530	106	AVG	106T	15.28	15.30	15.13	22.80	-7.50	-6.10	9.20	28.80	-19.60
G Ba	5610	122	AVG	106T	15.00	15.26	15.08	22.80	-7.54	-6.10	9.16	28.80	-19.64
5	5690	138	AVG	106T	15.03	14.88	15.14	22.80	-7.66	-6.10	9.04	28.80	-19.76
	5775	155	AVG	106T	14.86	14.85	15.30	30.00	-14.70	-5.90	9.40	-	-

Table 7-18. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

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### SISO Antenna-1 Conducted Output Power Measurements (242 Tones)

	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
					61	[dBm]	Margin [dB]	[0.5.]	[]		a. g [a.2]
N	5180	36	AVG	242T	15.74	23.98	-8.24	-6.50	9.24	22.39	-13.15
I S	0200	40	AVG	242T	15.86	23.98	-8.12	-6.50	9.36	22.39	-13.03
≥ t	5240	48	AVG	242T	15.77	23.98	-8.21	-6.20	9.57	22.39	-12.82
<b>U</b>	5260	52	AVG	242T	15.96	23.47	-7.51	-6.20	9.76	29.47	-19.71
2 3		56	AVG	242T	15.99	23.47	-7.48	-6.20	9.79	29.47	-19.68
N	5320	64	AVG	242T	15.78	23.47	-7.69	-6.20	9.58	29.47	-19.89
ヹ゠゙		100	AVG	242T	15.77	22.80	-7.03	-6.10	9.67	28.80	-19.13
C) M		120	AVG	242T	15.91	22.80	-6.89	-6.10	9.81	28.80	-18.99
5	5720	144	AVG	242T	15.70	22.80	-7.10	-6.10	9.60	28.80	-19.20
	5745	149	AVG	242T	15.98	30.00	-14.02	-5.90	10.08	-	-
	5785	157	AVG	242T	15.89	30.00	-14.11	-5.90	9.99	-	-
	5825	165	AVG	242T	15.73	30.00	-14.27	-5.90	9.83	-	-

Table 7-19. SISO ANT1 20MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

N	Freq [MHz]	Channel	Detector	Tones	RU li	ndex	Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
<b>+</b> -					61	62	[dBm]	Margin [dB]	[uDi]	[GDIII]	Limit [abiii]	margin [ab]
	5190	38	AVG	242T	14.62	14.64	23.98	-9.34	-6.50	8.14	22.39	-14.25
5	5230	46	AVG	242T	16.45	16.46	23.98	-7.52	-6.20	10.26	22.39	-12.13
4	5270	54	AVG	242T	16.43	16.43	23.47	-7.04	-6.20	10.23	29.47	-19.24
$\sim$ $\dot{z}$	5310	62	AVG	242T	13.51	13.40	23.47	-9.96	-6.20	7.31	29.47	-22.16
7	5510	102	AVG	242T	13.54	13.31	22.80	-9.26	-6.10	7.44	28.80	-21.36
/ D	5590	118	AVG	242T	16.47	16.38	22.80	-6.33	-6.10	10.37	28.80	-18.43
20	5710	142	AVG	242T	16.44	16.23	22.80	-6.36	-6.10	10.34	28.80	-18.46
~,	5755	151	AVG	242T	16.33	16.02	30.00	-13.67	-5.90	10.43	-	-
	5795	159	AVG	242T	16.46	16.47	30.00	-13.53	-5.90	10.57	-	-

Table 7-20. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

N (	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p.
₹ €					61	62	64	[dBm]	Margin [dB]	[ubij	[ubiii]	Emine [aBin]	margin [ab]
<b>€</b> 5	5210	42	AVG	242T	14.09	14.33	13.95	23.98	-9.65	-6.50	7.83	22.39	-14.56
∞ ≥	5290	58	AVG	242T	12.49	12.47	12.10	23.47	-10.98	-6.20	6.29	29.47	-23.18
2 4	5530	106	AVG	242T	13.60	13.57	13.82	22.80	-8.98	-6.10	7.72	28.80	-21.08
다 Ba	5610	122	AVG	242T	15.87	15.78	15.71	22.80	-6.93	-6.10	9.77	28.80	-19.03
5	5690	138	AVG	242T	15.97	15.88	15.92	22.80	-6.83	-6.10	9.87	28.80	-18.93
	5775	155	AVG	242T	15.98	15.94	15.63	30.00	-14.02	-5.90	10.08	-	_

Table 7-21. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (242 Tones)

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# SISO Antenna-1 Conducted Output Power Measurements (484 Tones)

7	Freq [M	Hz] Channe	l Detector	Tones	RU Index	Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]	
					65	[dBm]	Margin [dB]	[]	[]		a. g [a.2]	
	5190	38	AVG	484T	14.56	23.98	-9.42	-6.50	8.06	22.39	-14.33	
	5230	46	AVG	484T	15.47	23.98	-8.51	-6.20	9.27	22.39	-13.12	
40	5270	54	AVG	484T	15.34	23.47	-8.13	-6.20	9.14	29.47	-20.33	
	5310	62	AVG	484T	13.44	23.47	-10.03	-6.20	7.24	29.47	-22.23	
Y	5510	102	AVG	484T	13.42	22.80	-9.38	-6.10	7.32	28.80	-21.48	
六	5590	118	AVG	484T	15.70	22.80	-7.10	-6.10	9.60	28.80	-19.20	
56	5710	142	AVG	484T	15.56	22.80	-7.24	-6.10	9.46	28.80	-19.34	
	5755	151	AVG	484T	15.42	30.00	-14.58	-5.90	9.52	-	-	
	5795	159	AVG	484T	15.60	30.00	-14.40	-5.90	9.70	-	-	

Table 7-22. SISO ANT1 40MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

× .	Freq [MHz]	Channel	Detector Tones RU II		ndex	Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]		
를 들					65	66	[dBm]	Margin [dB]	[ubi]	[GBIII]	Limit [abiii]	inargin [db]	
OM id <u>t</u>	5210	42	AVG	484T	14.19	14.11	23.98	-9.79	-6.50	7.69	22.39	-14.70	
® <u>≩</u>	5290	58	AVG	484T	12.49	12.25	23.47	-10.98	-6.20	6.29	29.47	-23.18	
무드	5530	106	AVG	484T	13.99	13.54	22.80	-8.81	-6.10	7.89	28.80	-20.91	
G G	5610	122	AVG	484T	15.49	15.44	22.80	-7.31	-6.10	9.39	28.80	-19.41	
5	5690	138	AVG	484T	15.45	15.52	22.80	-7.28	-6.10	9.42	28.80	-19.38	
	5775	155	AVG	484T	15.39	15.59	30.00	-14.41	-5.90	9.69	-	-	

Table 7-23. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (484 Tones)

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# SISO Antenna-1 Conducted Output Power Measurements (996 Tones)

Z (	Freq [MHz]	Channel	Detector	Tones	RU Index	Conducted Power Limit	Conducted Power	Ant. Gain [dBi]	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
₹ <b>€</b>					67	[dBm]	Margin [dB]	[]	[]		g [u_]
<b>5</b> ₽	5210	42	AVG	996T	14.01	23.98	-9.97	-6.50	7.51	22.39	-14.88
® ≱	5290	58	AVG	996T	12.25	23.47	-11.22	-6.20	6.05	29.47	-23.42
우흑	5530	106	AVG	996T	13.67	22.80	-9.13	-6.10	7.57	28.80	-21.23
5G+ Ba	5610	122	AVG	996T	14.63	22.80	-8.17	-6.10	8.53	28.80	-20.27
5	5690	138	AVG	996T	14.65	22.80	-8.15	-6.10	8.55	28.80	-20.25
	5775	155	AVG	996T	14.67	30.00	-15.33	-5.90	8.77	-	-

Table 7-24. SISO ANT1 80MHz BW (UNII) Maximum Conducted Output Power (996 Tones)

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### SISO Antenna-2 Conducted Output Power Measurements (26 Tones)

	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
					0	4	8	[dBm]	Margin [dB]	[GDI]	[ubiii]	Linne [abin]	margin [ab]
N _	5180	36	AVG	26T	11.81	11.96	11.91	23.98	-12.02	-13.40	-1.44	22.39	-23.83
ב <u>∓</u>	5200	40	AVG	26T	11.59	11.91	11.87	23.98	-12.07	-13.40	-1.49	22.39	-23.88
⋝≒	5240	48	AVG	26T	11.76	11.68	11.84	23.98	-12.14	-11.70	0.14	22.39	-22.25
	5260	52	AVG	26T	11.85	11.97	11.96	23.47	-11.50	-11.70	0.27	29.47	-29.20
<b>₹</b>	5280	56	AVG	26T	11.99	11.63	11.99	23.47	-11.48	-11.70	0.29	29.47	-29.18
N D	5320	64	AVG	26T	11.97	11.99	11.98	23.47	-11.48	-11.70	0.29	29.47	-29.18
E E	5500	100	AVG	26T	11.93	11.98	11.89	22.80	-10.82	-8.20	3.78	28.80	-25.02
(h	5600	120	AVG	26T	11.97	11.98	11.96	22.80	-10.82	-8.20	3.78	28.80	-25.02
50 B	5720	144	AVG	26T	11.98	11.99	11.89	22.80	-10.81	-8.20	3.79	28.80	-25.01
	5745	149	AVG	26T	11.95	11.81	11.73	30.00	-18.05	0.30	12.25	-	-
	5785	157	AVG	26T	11.82	11.94	11.90	30.00	-18.06	0.30	12.24	-	-
	5825	165	AVG	26T	11.98	11.97	11.94	30.00	-18.02	0.30	12.28	-	-

Table 7-25. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

N		Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
7						0	8	17	[dBm]	Margin [dB]	[GDI]	[ubiii]	Limit [abiii]	margin [ab]
₹ ;	2	5190	38	AVG	26T	11.43	11.42	11.37	23.98	-12.55	-13.40	-1.97	22.39	-24.36
5	Ō	5230	46	AVG	26T	11.10	11.49	11.11	23.98	-12.49	-11.70	-0.21	22.39	-22.60
4 .	⋝	5270	54	AVG	26T	11.04	11.46	11.49	23.47	-11.98	-11.70	-0.21	29.47	-29.68
	6	5310	62	AVG	26T	11.48	11.49	11.08	23.47	-11.98	-11.70	-0.21	29.47	-29.68
7	$\bar{\Box}$	5510	102	AVG	26T	11.46	11.24	11.35	22.80	-11.34	-8.20	3.26	28.80	-25.54
	a	5590	118	AVG	26T	11.26	11.47	11.48	22.80	-11.32	-8.20	3.28	28.80	-25.52
20	ם	5710	142	AVG	26T	11.17	11.48	11.39	22.80	-11.32	-8.20	3.28	28.80	-25.52
4,		5755	151	AVG	26T	11.49	11.48	11.28	30.00	-18.51	0.30	11.79	-	-
		5795	159	AVG	26T	11.29	11.49	11.06	30.00	-18.51	0.30	11.79	-	-

Table 7-26. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

2	Freq [MHz]	Hz] Channel Detector Tones		Tones		RU Index		Conducted Power Limit	wer Limit Power		Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
<b>₹</b>					0	18	36	[dBm]	Margin [dB]	[dBi]	[ubiii]	Linne [abin]	margin [ab]
₫ 5	5210	42	AVG	26T	11.53	11.62	11.48	23.98	-12.36	-13.40	-1.78	22.39	-24.17
∞ ≥	5290	58	AVG	26T	11.73	11.55	11.57	23.47	-11.74	-11.70	0.03	29.47	-29.44
무호	5530	106	AVG	26T	11.65	11.67	11.46	22.80	-11.13	-8.20	3.47	28.80	-25.33
Ba G	5610	122	AVG	26T	11.64	11.66	11.48	22.80	-11.15	-8.20	3.46	28.80	-25.35
5 _	5690	138	AVG	26T	11.57	11.54	11.39	22.80	-11.23	-8.20	3.37	28.80	-25.43
	5775	155	AVG	26T	11.39	11.42	11.41	30.00	-18.58	0.30	11.72	-	-

Table 7-27. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (26 Tones)

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### SISO Antenna-2 Conducted Output Power Measurements (52 Tones)

	Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
					37	39	40	[dBm]	Margin [dB]	[GDI]	[ubiii]	Linne [abin]	margin [ab]
N _	5180	36	AVG	52T	12.85	12.89	12.81	23.98	-11.09	-13.40	-0.51	22.39	-22.90
I G	5200	40	AVG	52T	12.87	12.83	12.80	23.98	-11.11	-13.40	-0.53	22.39	-22.92
⋝≒	5240	48	AVG	52T	12.64	12.72	12.61	23.98	-11.26	-11.70	1.02	22.39	-21.37
S : 5	5260	52	AVG	52T	12.76	12.81	12.73	23.47	-10.66	-11.70	1.11	29.47	-28.36
≥ (2	5280	56	AVG	52T	12.85	12.89	12.81	23.47	-10.58	-11.70	1.19	29.47	-28.28
N D	5320	64	AVG	52T	12.86	12.87	12.72	23.47	-10.60	-11.70	1.17	29.47	-28.30
E E	5500	100	AVG	52T	12.84	12.85	12.67	22.80	-9.95	-8.20	4.65	28.80	-24.15
C m	5600	120	AVG	52T	12.98	12.93	12.81	22.80	-9.82	-8.20	4.78	28.80	-24.02
5	5720	144	AVG	52T	12.84	12.81	12.66	22.80	-9.96	-8.20	4.64	28.80	-24.16
	5745	149	AVG	52T	12.97	12.94	12.95	30.00	-17.03	0.30	13.27	-	-
	5785	157	AVG	52T	12.73	12.60	12.96	30.00	-17.04	0.30	13.26	-	-
	5825	165	AVG	52T	12.95	12.96	12.86	30.00	-17.04	0.30	13.26	-	-

Table 7-28. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

Z		Freq [MHz]	Channel	Detector	Tones		RU Index		Conducted Power Limit	Conducted Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
Ÿ						37	40	44	[dBm]	Margin [dB]	[GDI]	[GDIII]	Linnit [abin]	margin [ab]
₹	딒	5190	38	AVG	52T	12.90	12.84	12.80	23.98	-11.08	-13.40	-0.50	22.39	-22.89
5	Ō	5230	46	AVG	52T	12.72	12.87	12.81	23.98	-11.11	-11.70	1.17	22.39	-21.22
4	'₹	5270	54	AVG	52T	12.95	12.74	12.79	23.47	-10.52	-11.70	1.25	29.47	-28.22
<u> </u>	6	5310	62	AVG	52T	12.97	12.89	12.88	23.47	-10.50	-11.70	1.27	29.47	-28.20
7	Ĕ	5510	102	AVG	52T	12.83	12.99	12.61	22.80	-9.81	-8.20	4.79	28.80	-24.01
六	Ø	5590	118	AVG	52T	12.85	12.98	12.91	22.80	-9.82	-8.20	4.78	28.80	-24.02
<b>2G</b>	m	5710	142	AVG	52T	12.98	12.86	12.70	22.80	-9.82	-8.20	4.78	28.80	-24.02
		5755	151	AVG	52T	12.59	12.81	12.76	30.00	-17.19	0.30	13.11	-	-
		5795	159	AVG	52T	12.72	12.95	12.88	30.00	-17.05	0.30	13.25	-	-

Table 7-29. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

z (	Freq [MHz]	Channel	Detector	or Tones	RU Index			Conducted Power Limit Power	Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]		
₹ <b>€</b>					37	44	52	[dBm]	Margin [dB]	[u.s.]	[ubiii]	Lillie [dBill]	margin [ab]
₹ 6	5210	42	AVG	52T	12.94	13.11	12.72	23.98	-10.87	-13.40	-0.29	22.39	-22.68
<u>∞</u> ≥	5290	58	AVG	52T	13.12	12.87	12.86	23.47	-10.35	-11.70	1.42	29.47	-28.05
무흑	5530	106	AVG	52T	12.92	12.95	12.81	22.80	-9.85	-8.20	4.75	28.80	-24.05
E B	5610	122	AVG	52T	13.01	12.98	12.81	22.80	-9.79	-8.20	4.81	28.80	-23.99
5	5690	138	AVG	52T	12.92	12.93	12.77	22.80	-9.87	-8.20	4.73	28.80	-24.07
	5775	155	AVG	52T	12.78	12.80	13.05	30.00	-16.95	0.30	13.35	-	-

Table 7-30. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (52 Tones)

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### SISO Antenna-2 Conducted Output Power Measurements (106 Tones)

	Freq [MHz] Channe	Channel	Detector	Tones	RU Index		Conducted Power Limit	Power Limit Power		Max e.i.r.p.	Max e.i.r.p.	e.i.r.p. Margin [dB]
					53	54	[dBm]	Margin [dB]	[dBi]	[]		margin [ab]
N _	5180	36	AVG	106T	14.97	14.99	23.98	-8.99	-13.40	1.59	22.39	-20.80
I C	5200	40	AVG	106T	14.96	14.95	23.98	-9.02	-13.40	1.56	22.39	-20.83
₹ Ş	5240	48	AVG	106T	14.89	14.87	23.98	-9.09	-11.70	3.19	22.39	-19.20
<b>—</b> :=	5260	52	AVG	106T	14.95	14.92	23.47	-8.52	-11.70	3.25	29.47	-26.22
<u>≥</u>	5280	56	AVG	106T	14.98	14.99	23.47	-8.48	-11.70	3.29	29.47	-26.18
N D	5320	64	AVG	106T	14.96	14.99	23.47	-8.48	-11.70	3.29	29.47	-26.18
E E	5500	100	AVG	106T	14.62	14.97	22.80	-7.83	-8.20	6.77	28.80	-22.03
CD R	5600	120	AVG	106T	14.97	14.93	22.80	-7.83	-8.20	6.77	28.80	-22.03
5	5720	144	AVG	106T	14.96	14.98	22.80	-7.82	-8.20	6.78	28.80	-22.02
	5745	149	AVG	106T	14.88	14.76	30.00	-15.12	0.30	15.18	-	-
	5785	157	AVG	106T	14.92	14.85	30.00	-15.08	0.30	15.22	-	-
	5825	165	AVG	106T	14.99	14.97	30.00	-15.01	0.30	15.29	-	-

Table 7-31. SISO ANT2 20MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

Z		Freq [MHz]	Channel	Detector	Tones	RU Index			Conducted Power Limit		Ant. Gain	Max e.i.r.p.	Max e.i.r.p. Limit [dBm]	e.i.r.p.
7	$\overline{}$					53	54	56	[dBm]	Margin [dB]	[GDI]	[GBIII]	Lillit [abili]	Margin [GD]
$\equiv$	₽.	5190	38	AVG	106T	15.16	15.35	15.44	23.98	-8.54	-13.40	2.04	22.39	-20.35
	Ō	5230	46	AVG	106T	15.27	15.38	15.15	23.98	-8.60	-11.70	3.68	22.39	-18.71
<b>4</b> 0	₹	5270	54	AVG	106T	15.17	15.37	15.45	23.47	-8.02	-11.70	3.75	29.47	-25.72
<u> </u>	<del>6</del>	5310	62	AVG	106T	15.21	15.44	15.23	23.47	-8.03	-11.70	3.74	29.47	-25.73
7	≧	5510	102	AVG	106T	15.18	15.29	15.39	22.80	-7.41	-8.20	7.19	28.80	-21.61
六	Ø	5590	118	AVG	106T	15.44	15.24	15.17	22.80	-7.36	-8.20	7.24	28.80	-21.56
56	П	5710	142	AVG	106T	15.42	15.45	15.43	22.80	-7.35	-8.20	7.25	28.80	-21.55
_,		5755	151	AVG	106T	15.31	15.42	15.18	30.00	-14.58	0.30	15.72	-	-
		5795	159	AVG	106T	15.10	15.18	15.25	30.00	-14.75	0.30	15.55	-	-

Table 7-32. SISO ANT2 40MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

z	Freq [MHz]	Channel	Detector	ctor Tones	RU Index			Power Limit P	Power	Ant. Gain [dBi]		Max e.i.r.p. Limit [dBm]	
₹ £					53	56	60	[dBm]	Margin [dB]		[]		a. g [aD]
S ∃	5210	42	AVG	106T	15.06	15.14	14.91	23.98	-8.84	-13.40	1.74	22.39	-20.65
<u>∞</u> ≥	5290	58	AVG	106T	14.88	15.03	15.06	23.47	-8.41	-11.70	3.36	29.47	-26.11
후	5530	106	AVG	106T	15.02	15.06	14.94	22.80	-7.74	-8.20	6.86	28.80	-21.94
ag ag	5610	122	AVG	106T	15.06	15.04	14.96	22.80	-7.74	-8.20	6.86	28.80	-21.94
5	5690	138	AVG	106T	15.13	15.09	15.03	22.80	-7.67	-8.20	6.93	28.80	-21.87
	5775	155	AVG	106T	14.91	14.96	14.78	30.00	-15.04	0.30	15.26	-	-

Table 7-33. SISO ANT2 80MHz BW (UNII) Maximum Conducted Output Power (106 Tones)

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