

Nalloy, LLC

REVISED TEST REPORT TO 102802-24

Model: PFAY0H

Tested to The Following Standards:

FCC Part 15 Subpart E Section(s)

15.207 & 15.407
(NII 5.725-5.85GHz)

Report No.: 102802-24A

Date of issue: June 26, 2020



Test Certificate # 803.01

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

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Seattle, WA 98108

REPORT PREPARED BY:

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Mariposa, CA 95338

Representative: Naga Suryadevara
Customer Reference Number: 2D-03187704

Project Number: 102802

DATE OF EQUIPMENT RECEIPT:
DATE(S) OF TESTING:

March 20, 2020
April 1, 2 and 6-8, 2020

Revision History

Original: Testing of the Model: PFAY0H, to FCC Part 15 Subpart E Section(s) 15.207 & 15.407 (NII 5.725-5.85GHz).

Revision A: To correct the Antenna Gain in the General Product Table and in summary tables in Output Power, PSD and Radiated Emissions Band Edge to MIMO with Antenna 0 Linear Polarized / 5.3dBi and Antenna 1 Linear Polarized / 5.9dBi.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

A handwritten signature in black ink, reading "Steve Behm", is written over a horizontal line.

Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
Canyon Park
22116 23rd Drive S.E., Suite A
Bothell, WA 98021

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.12

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Japan
Canyon Park, Bothell, WA	US0081	US1022	A-0136
Brea, CA	US0060	US1025	A-0136
Fremont, CA	US01082	US1023	A-0136
Mariposa, CA	US0103	US1024	A-0136

*CKC's list of NIST designated countries can be found at: <https://standards.gov/cabs/designations.html>

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart E - 15.407 (NII)

Test Procedure	Description	Modifications	Results
15.407(e)	6dB Bandwidth	NA	Pass
15.407(a)	Output Power	NA	Pass
15.407(a)	Power Spectral Density	NA	Pass
15.407(g)	Frequency Stability	NA	NP
15.407(b)	Radiated Emissions & Band Edge	NA	Pass
15.207	AC Conducted Emissions	NA	Pass

NA = Not Applicable

NP = Test not performed because grantee is responsible for ensuring that the EUT meets Section 15.407(g) requirements.

ISO/IEC 17025 Decision Rule

The declaration of pass or fail herein is based upon assessment to the specification(s) listed above, including where applicable, assessment of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions
No modifications were made during testing.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
NA	Nalloy, LLC.	PFAY0H	9906679780

Support Equipment:

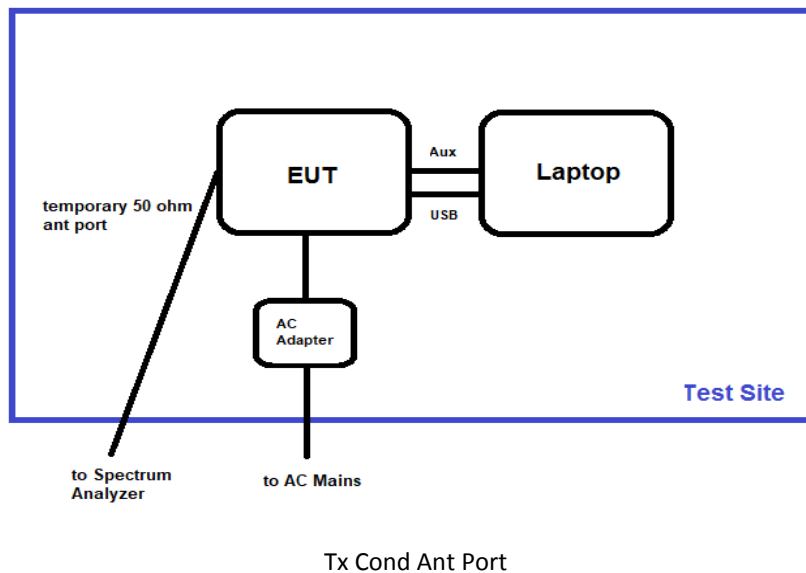
Device	Manufacturer	Model #	S/N
PC	Lenovo	81KT	YD07YGLG
PC PSU	Lenovo	ADL45WCC	NA
EUT PSU	Delta Electronics	MDS-030AAC15	24QW96P00CS

General Product Information:

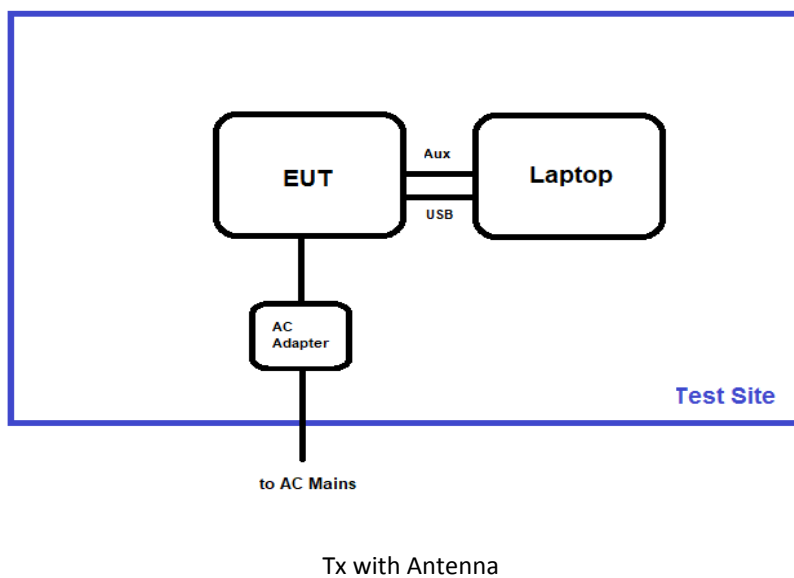
Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Type of Wideband System:	802.11a, ac, n
Operating Frequency Range:	5.725-5.85GHz
Modulation Type(s):	BPSK, QPSK, 16-QAM, 64-QAM
Maximum Duty Cycle:	100% Modulated (Tested Worst-Case)
Number of TX Chains:	1
Antenna Type(s) and Gain:	MIMO with Antenna 0 Linear Polarized / 5.3dBi and Antenna 1 Linear Polarized / 5.9dBi
Beamforming Type:	NA
Antenna Connection Type:	Integral (External connector provided to facilitate testing)
Nominal Input Voltage:	120VAC
Firmware / Software used for Test:	ro.build.id=PKQ1.180819.001

Block Diagram (s)

Test Setup Block Diagram



Test Setup Block Diagram



FCC Part 15 Subpart E

15.407(e) 6dB Bandwidth

Test Setup/Conditions			
Test Location:	Bothell Lab Bench	Test Engineer:	M. Harrison
Test Method:	ANSI C63.10 (2013), KDB 789033 v02r01 December 14, 2017)	Test Date(s):	4/7/2020
Configuration:	1		
Test Setup:	Duty Cycle: 100% (Test Mode) Test Mode: Continuously transmitting Test Setup: EUT is transmitting through the antenna port connector and is attached to the spectrum analyzer.		

Environmental Conditions			
Temperature (°C)	20	Relative Humidity (%):	35

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02673	Spectrum Analyzer	Agilent	E4446A	2/22/2019	2/22/2021

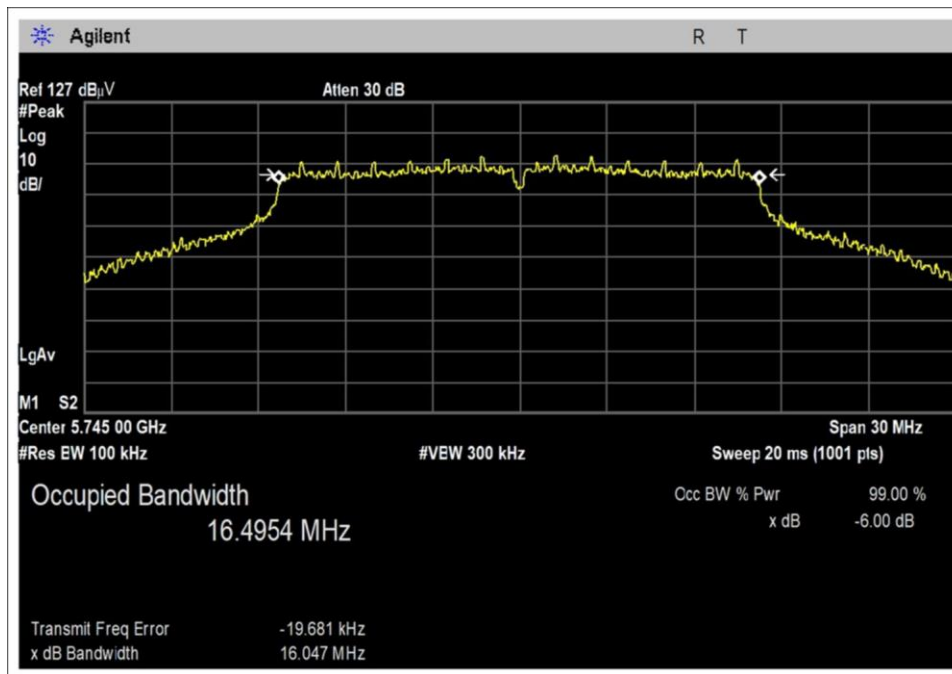
6dB Occupied Bandwidth

Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
5745	0	802.11a	16047	≥500	Pass
5785	0	802.11a	16267	≥500	Pass
5825	0	802.11a	16289	≥500	Pass
5745	1	802.11a	16295	≥500	Pass
5785	1	802.11a	16312	≥500	Pass
5825	1	802.11a	15896	≥500	Pass
5745	0	802.11n20	16957	≥500	Pass
5785	0	802.11n20	16201	≥500	Pass
5825	0	802.11n20	16279	≥500	Pass
5745	1	802.11n20	16401	≥500	Pass
5785	1	802.11n20	16698	≥500	Pass
5825	1	802.11n20	16807	≥500	Pass
5755	0	802.11n40	36415	≥500	Pass
5795	0	802.11n40	35941	≥500	Pass
5755	1	802.11n40	35314	≥500	Pass
5795	1	802.11n40	35426	≥500	Pass
5745	0	802.11ac20	17111	≥500	Pass
5785	0	802.11ac20	16712	≥500	Pass
5825	0	802.11ac20	17140	≥500	Pass
5745	1	802.11ac20	16961	≥500	Pass
5785	1	802.11ac20	16684	≥500	Pass
5825	1	802.11ac20	16804	≥500	Pass
5755	0	802.11ac40	35599	≥500	Pass
5795	0	802.11ac40	35711	≥500	Pass
5755	1	802.11ac40	35581	≥500	Pass
5795	1	802.11ac40	35547	≥500	Pass
5775	0	802.11ac80	75269	≥500	Pass
5775	1	802.11ac80	75236	≥500	Pass

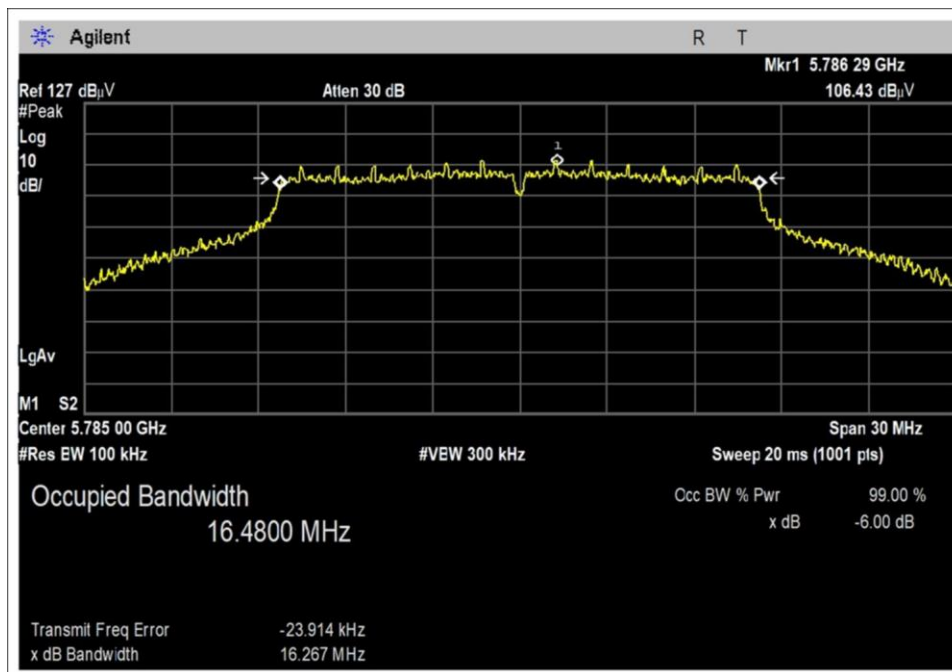
99% Occupied Bandwidth

Test Data Summary					
Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
5745	0	802.11a	16840.2	None	Pass
5785	0	802.11a	16873.1		
5825	0	802.11a	16868.9		
5745	1	802.11a	16788.5	None	Pass
5785	1	802.11a	16777.2		
5825	1	802.11a	16779.1		
5745	0	802.11n20	17948.4	None	Pass
5785	0	802.11n20	17962.8		
5825	0	802.11n20	17935.9		
5745	1	802.11n20	17983.3	None	Pass
5785	1	802.11n20	18079.7		
5825	1	802.11n20	18035.3		
5755	0	802.11n40	36226.7	None	Pass
5795	0	802.11n40	36287.3		
5755	1	802.11n40	36205.2	None	Pass
5795	1	802.11n40	36253.9		
5745	0	802.11ac20	18059.5	None	Pass
5785	0	802.11ac20	18032.6		
5825	0	802.11ac20	17890.9		
5745	1	802.11ac20	17968.4	None	Pass
5785	1	802.11ac20	17955.6		
5825	1	802.11ac20	18002.4		
5755	0	802.11ac40	36178.2	None	Pass
5795	0	802.11ac40	36205.4		
5755	1	802.11ac40	36327.4	None	Pass
5795	1	802.11ac40	36339.3		
5775	0	802.11ac80	75582.3	None	Pass
5775	1	802.11ac80	75580.0	None	Pass

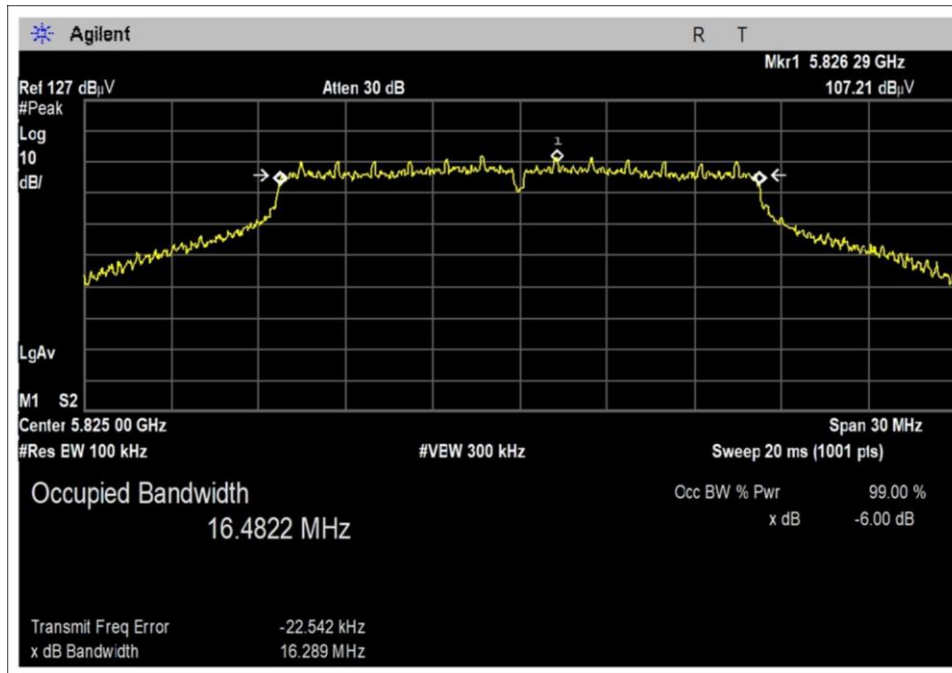
802.11a Plot(s)



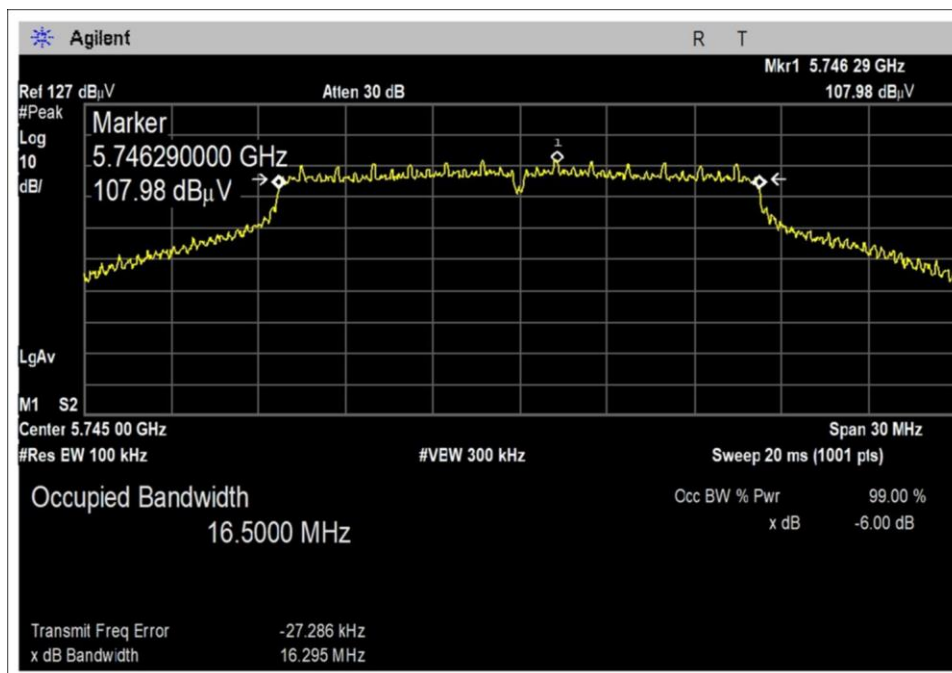
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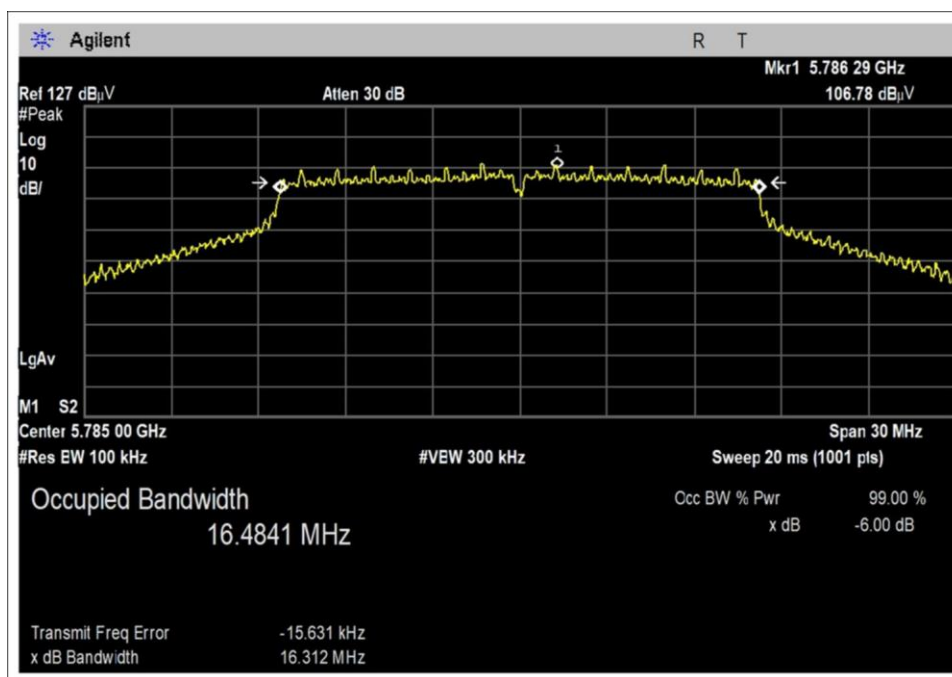
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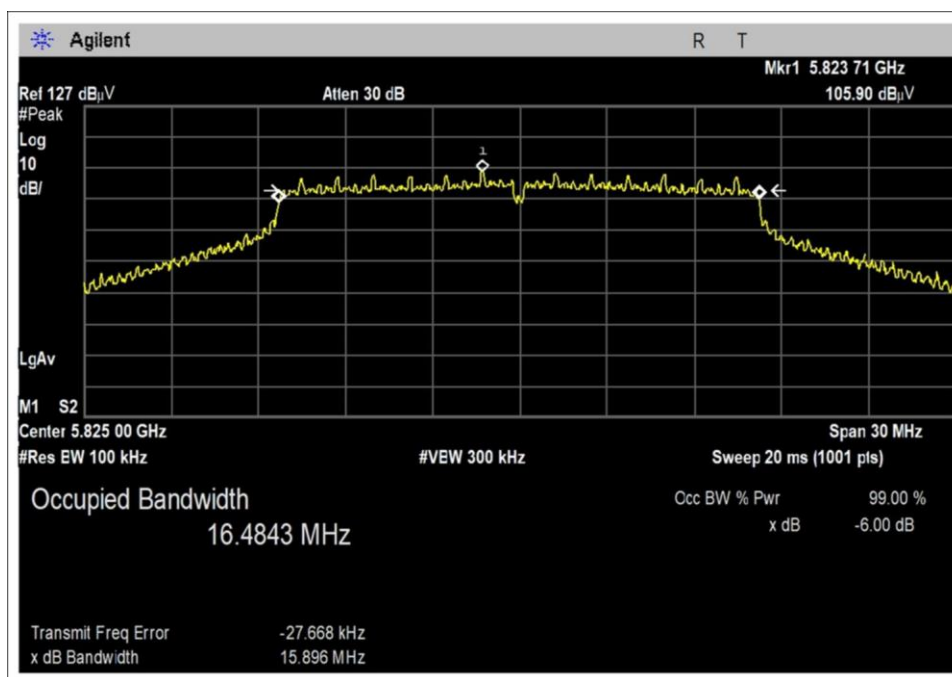
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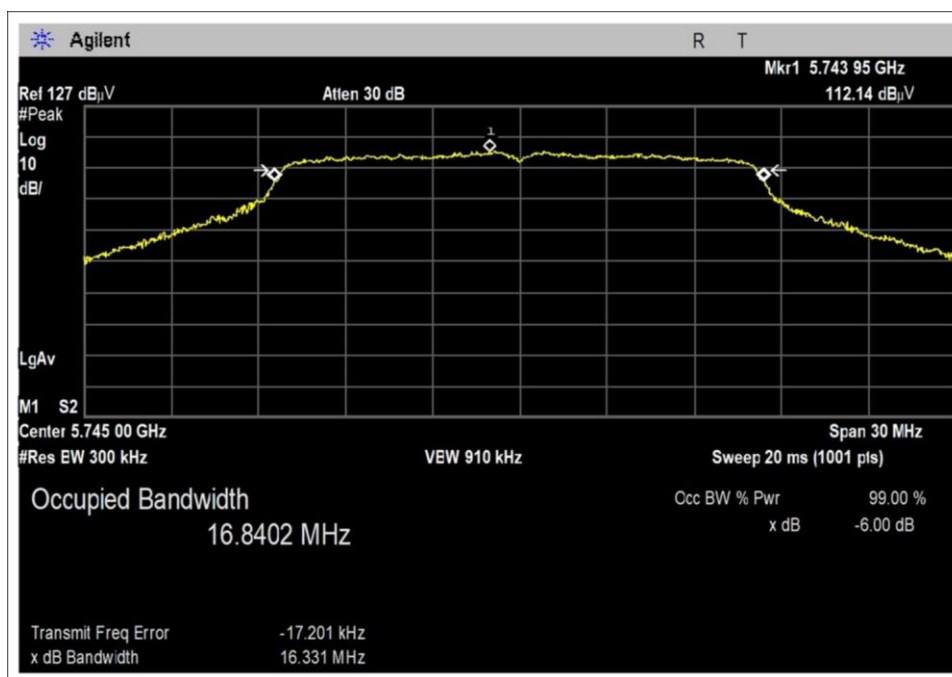
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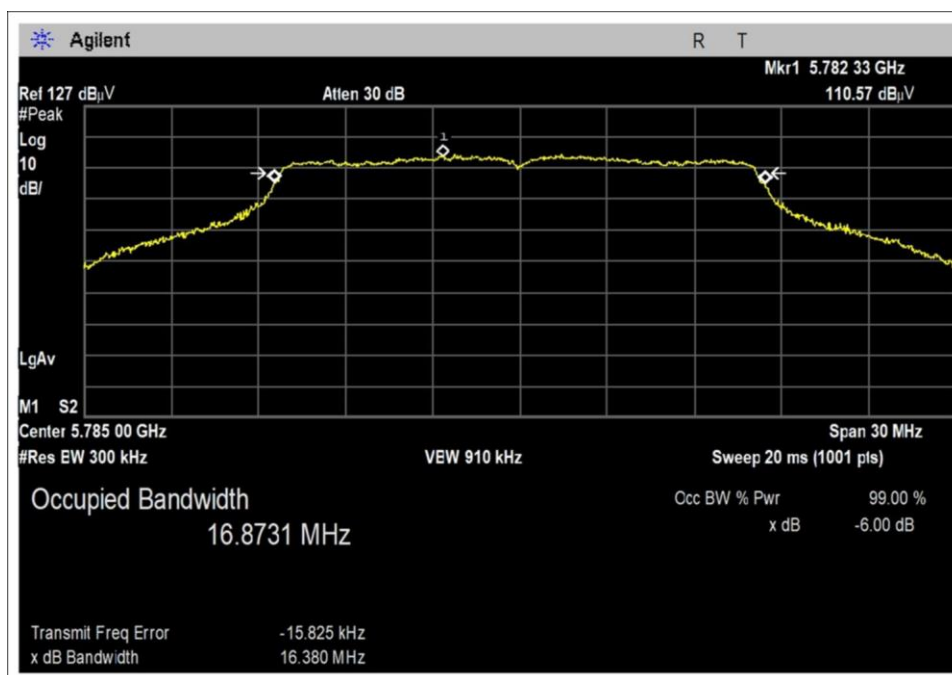
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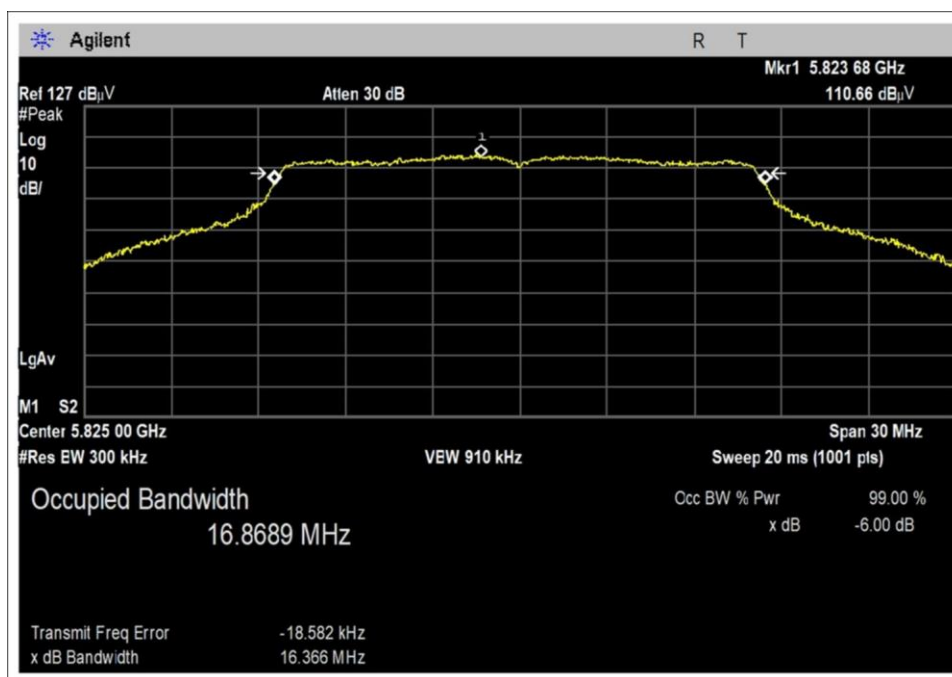
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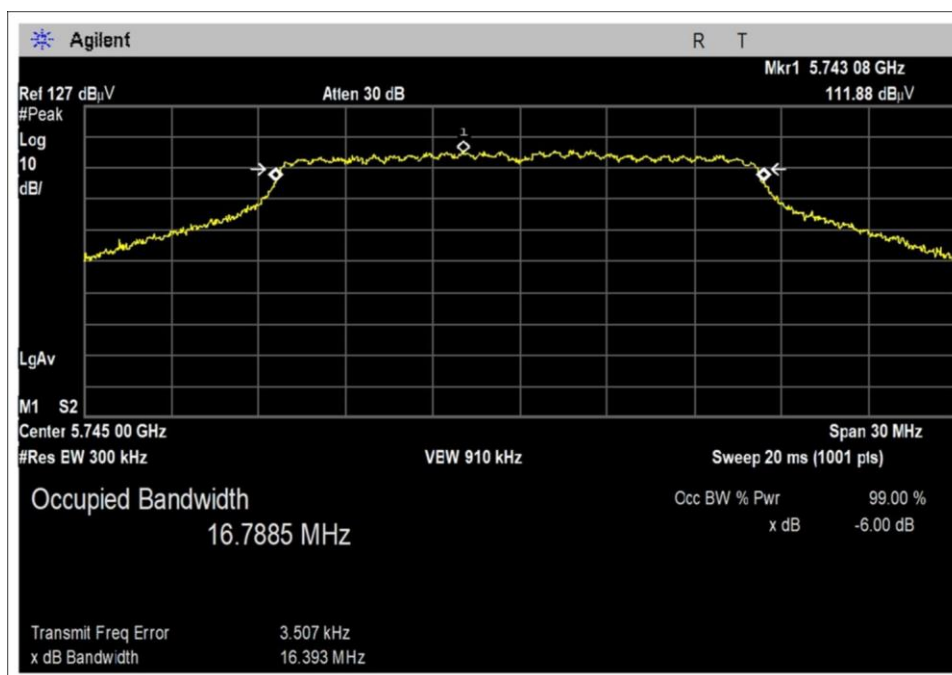
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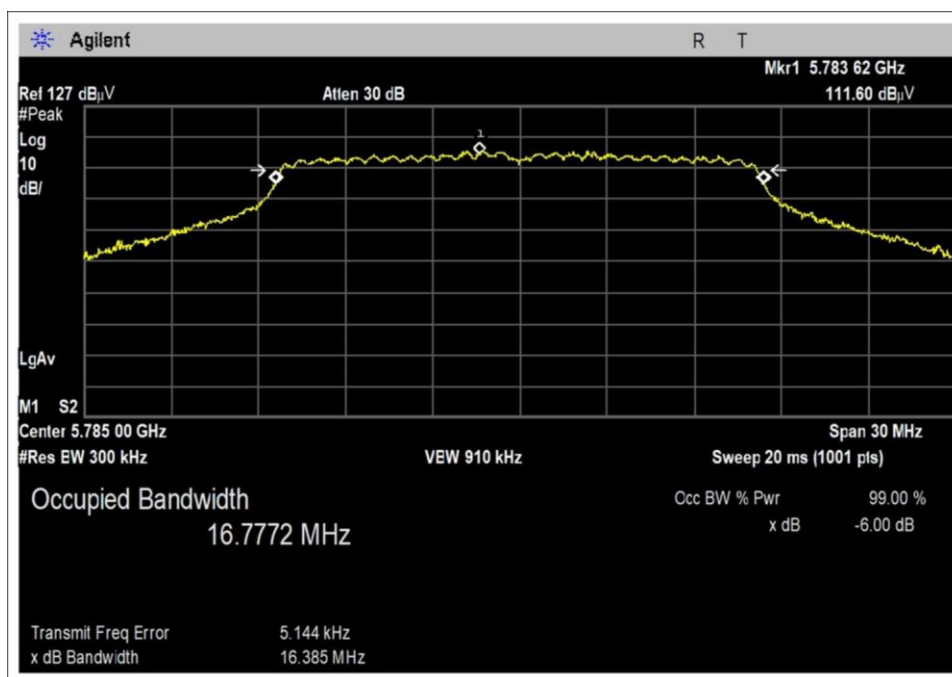
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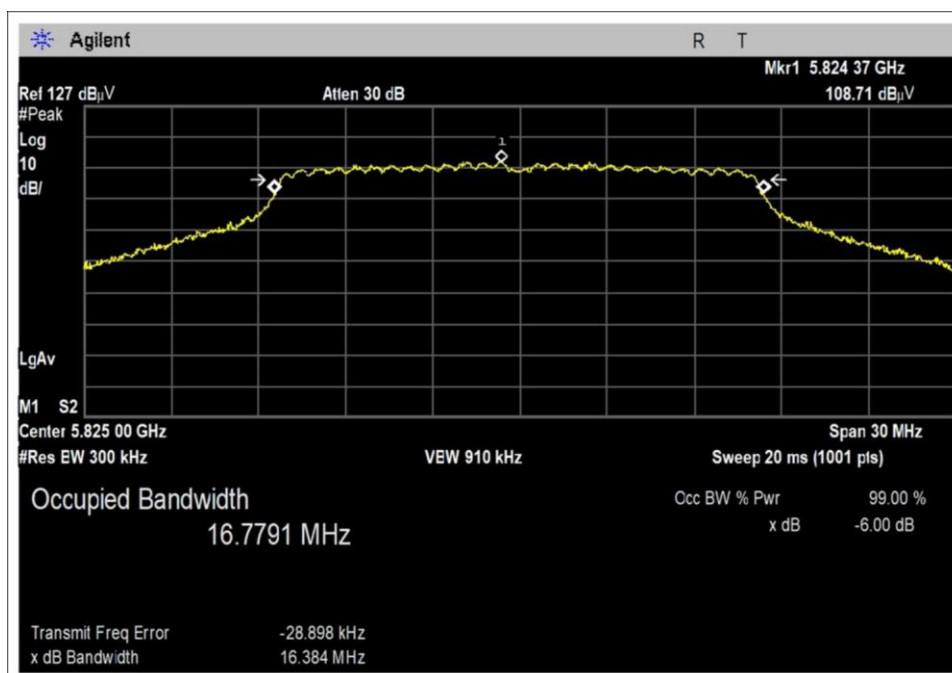
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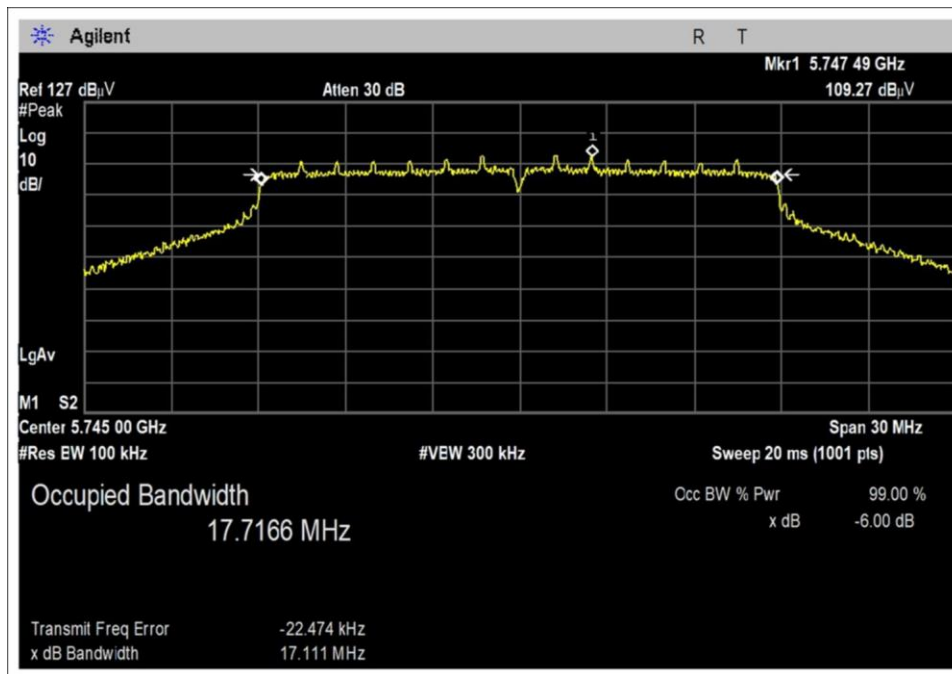


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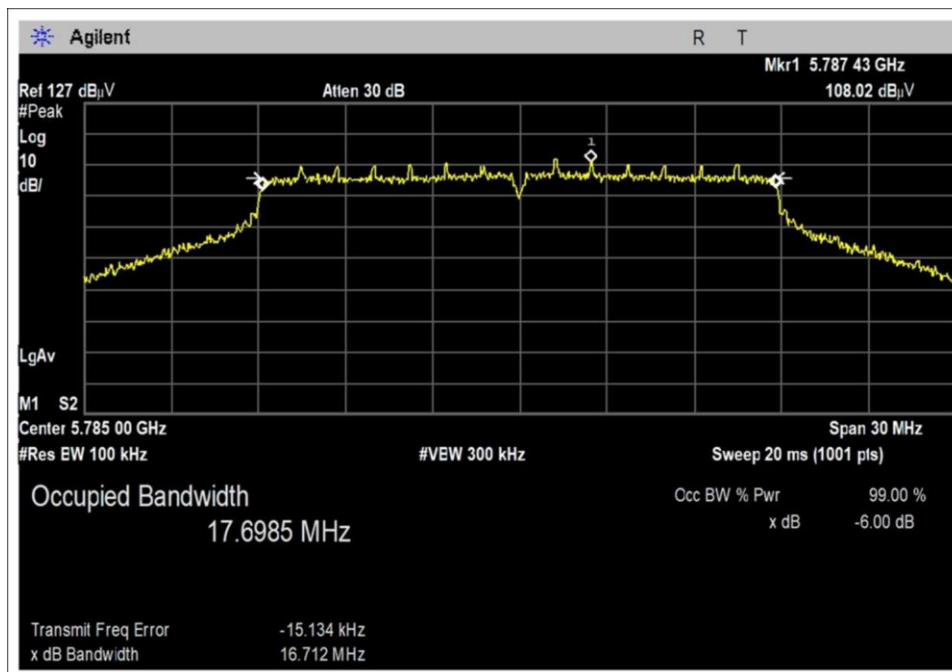


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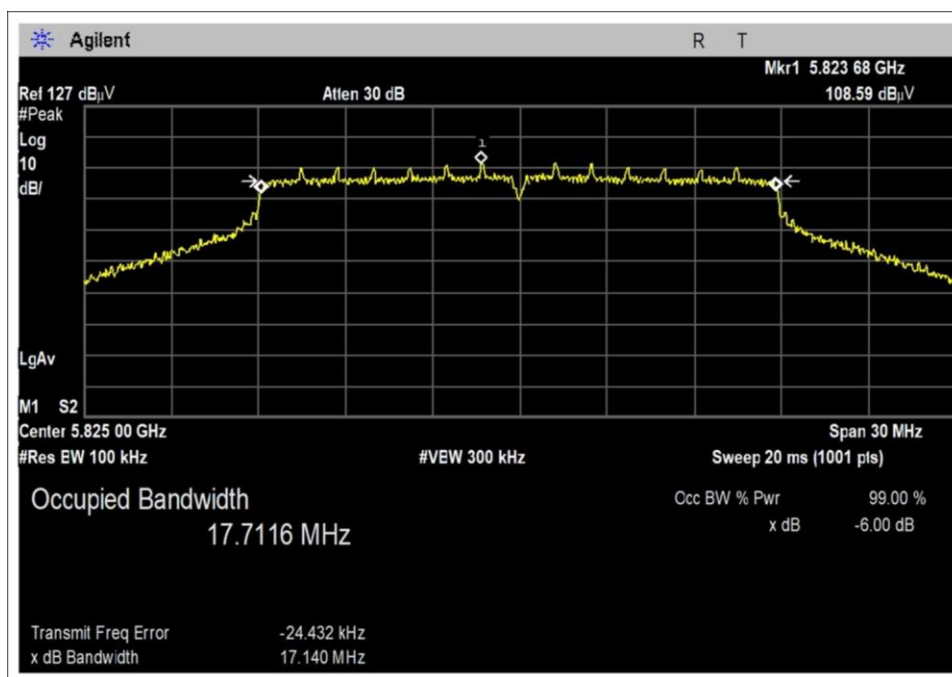
802.11ac20 Plot(s)



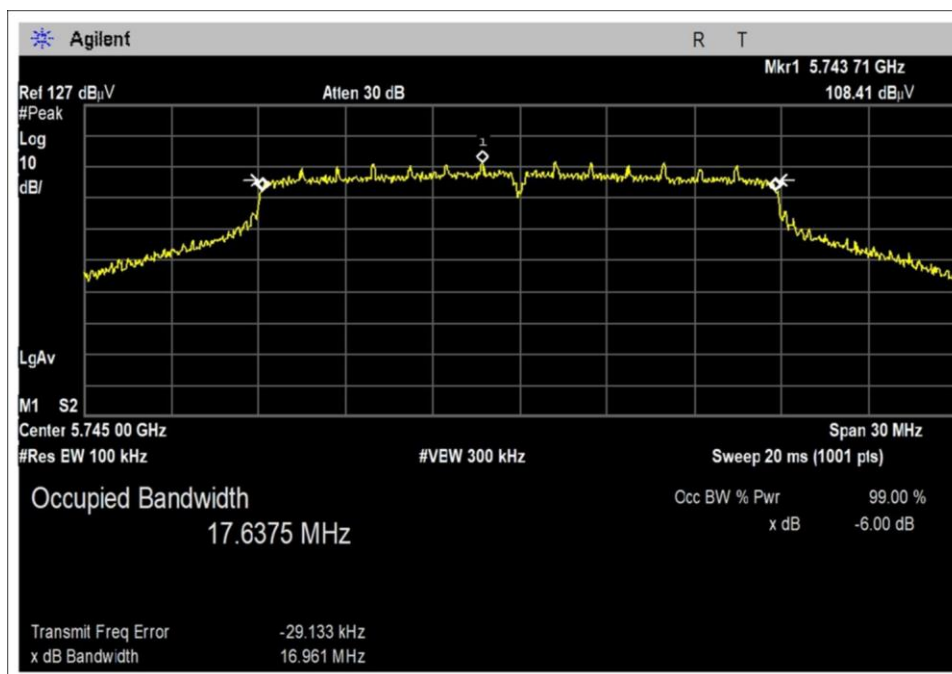
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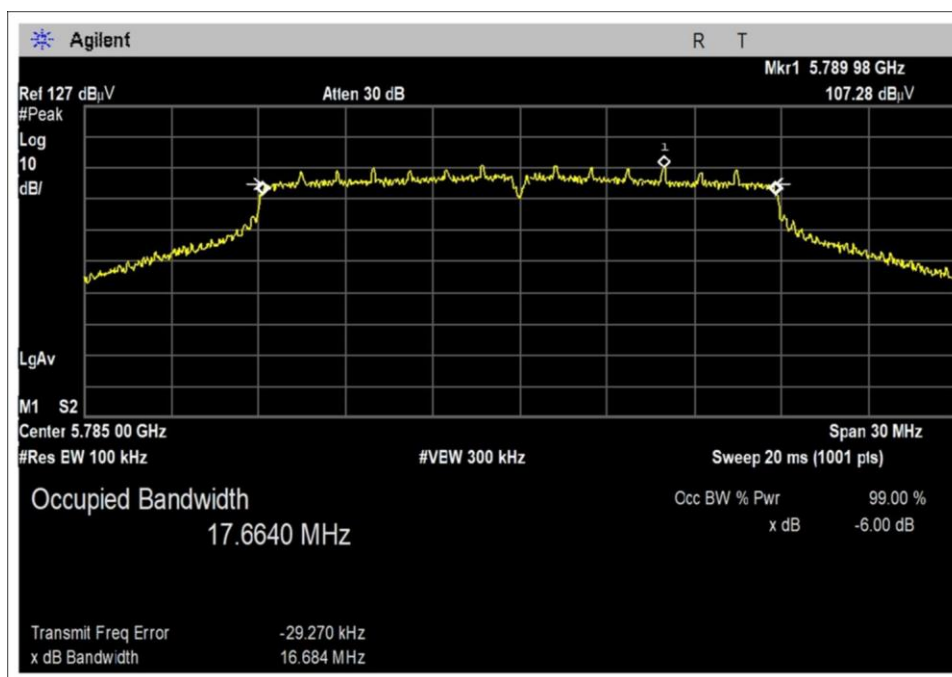
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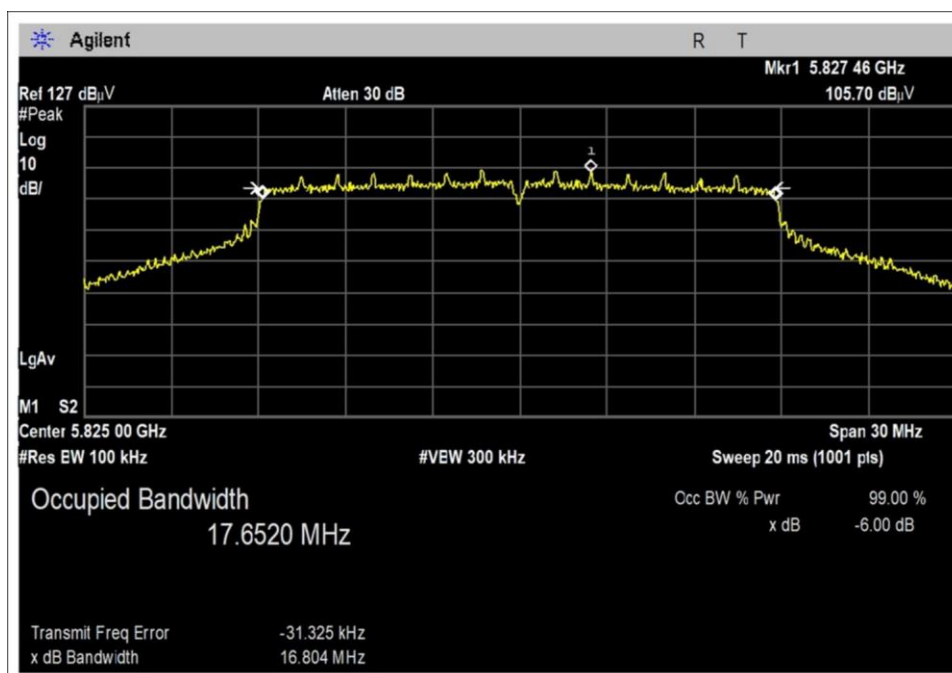
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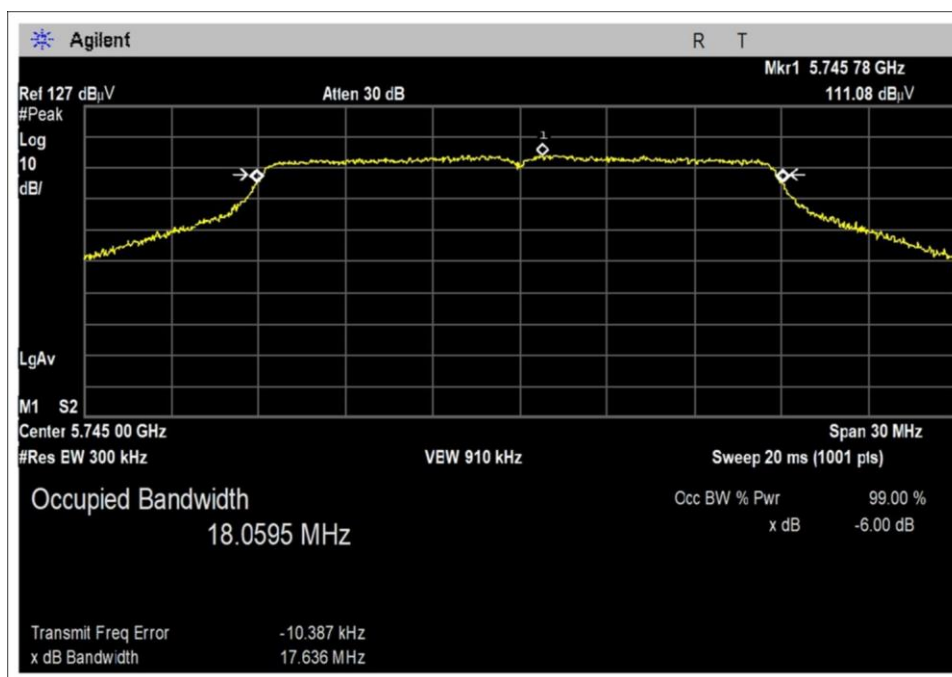
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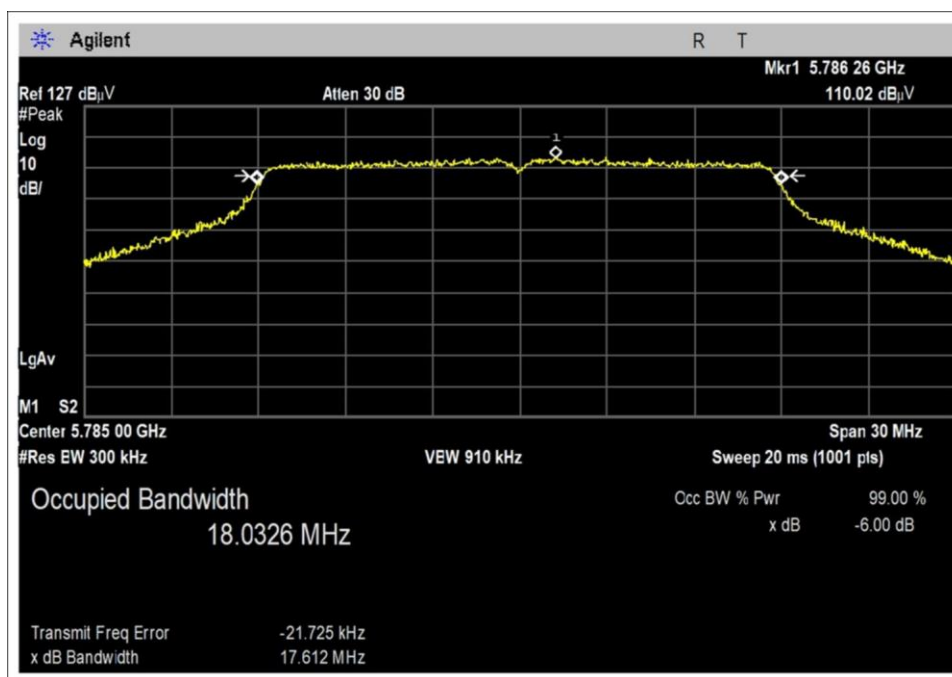
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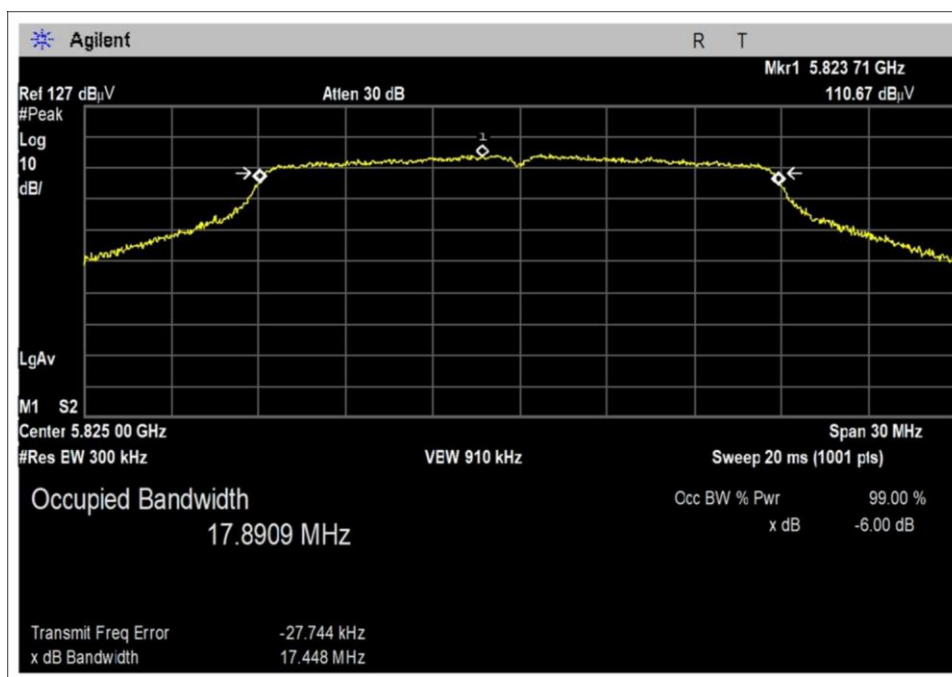
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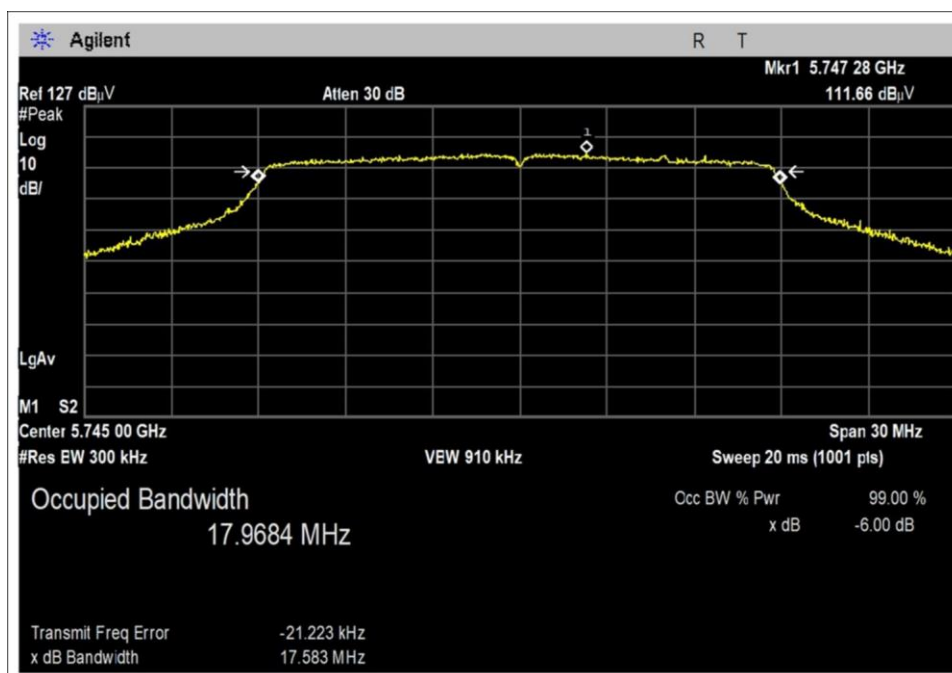
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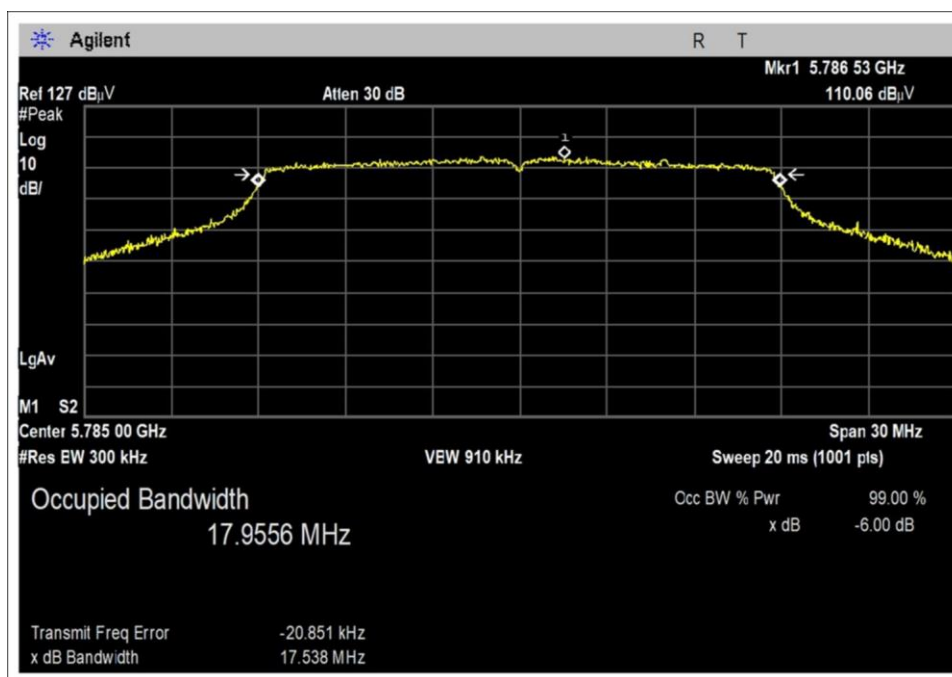
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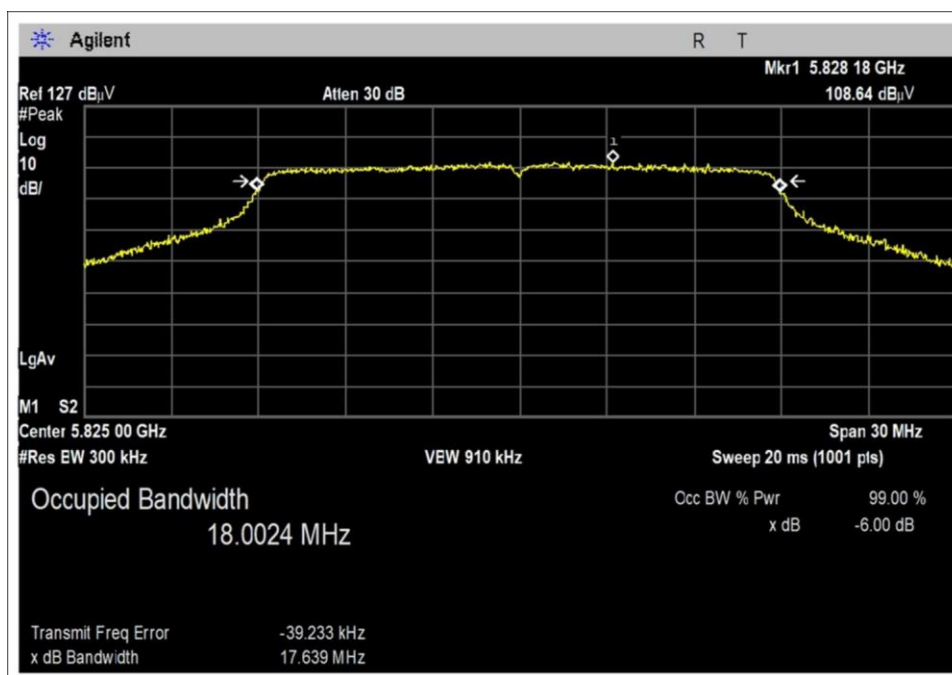
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99% OBW AP1 Low Channel

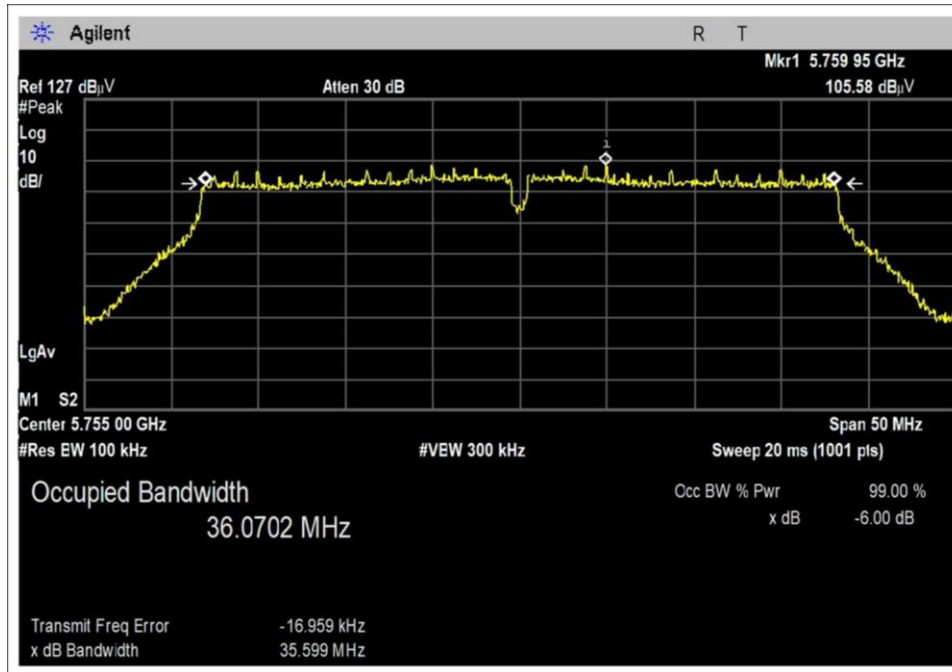


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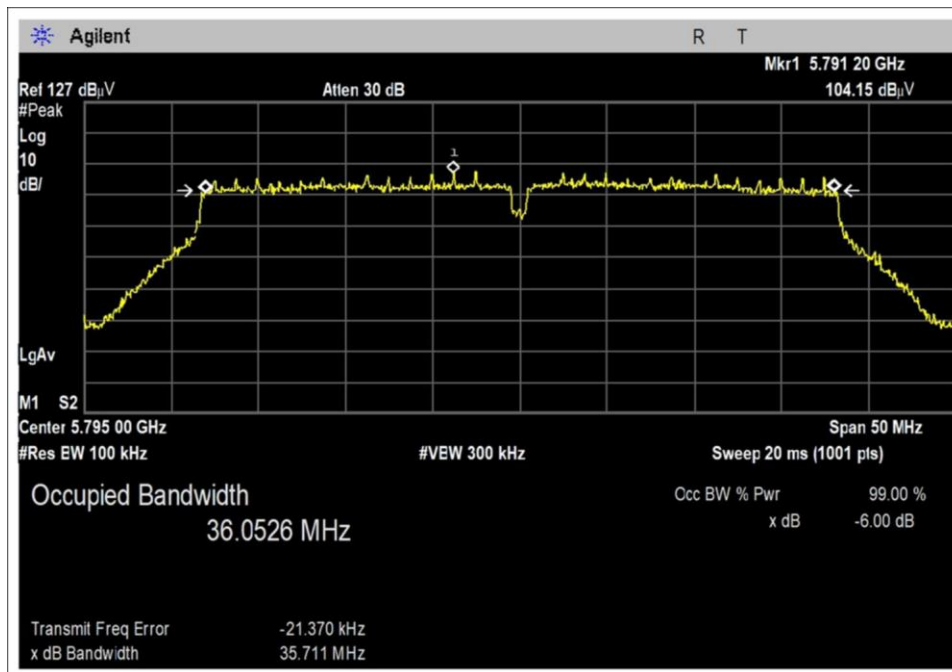


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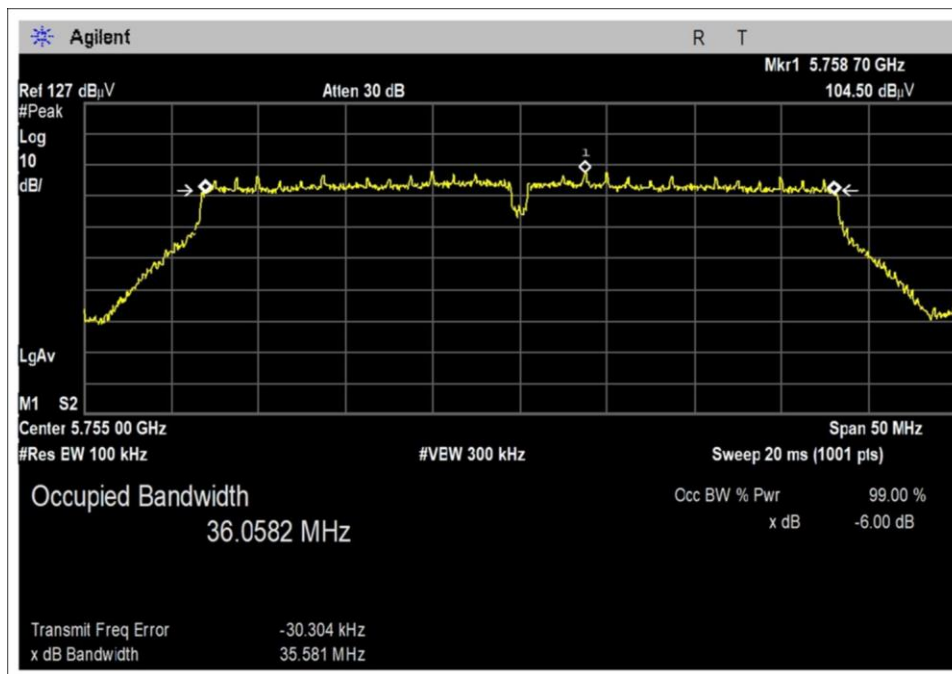
802.11ac40Plot(s)



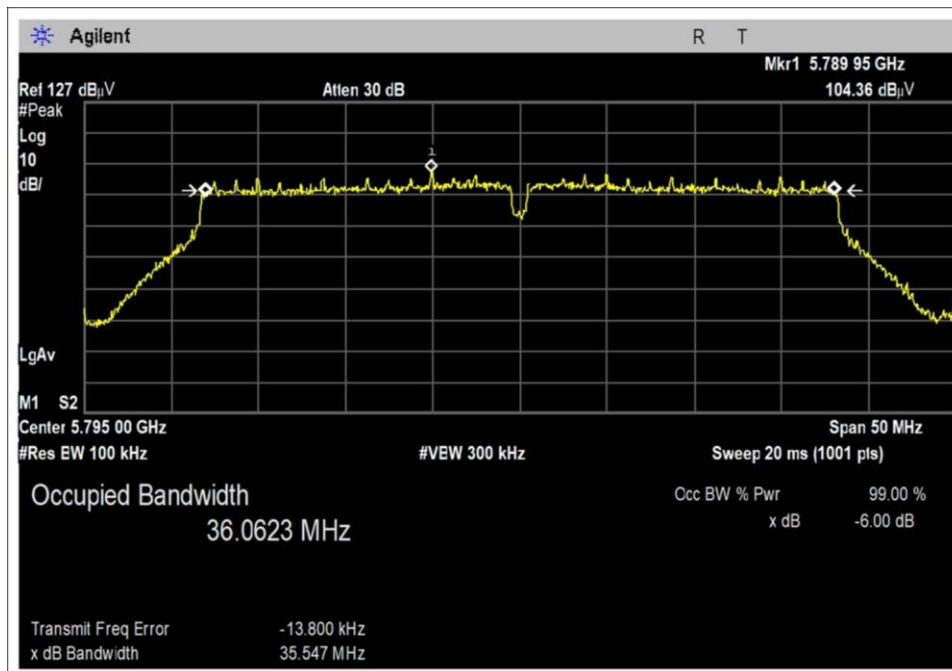
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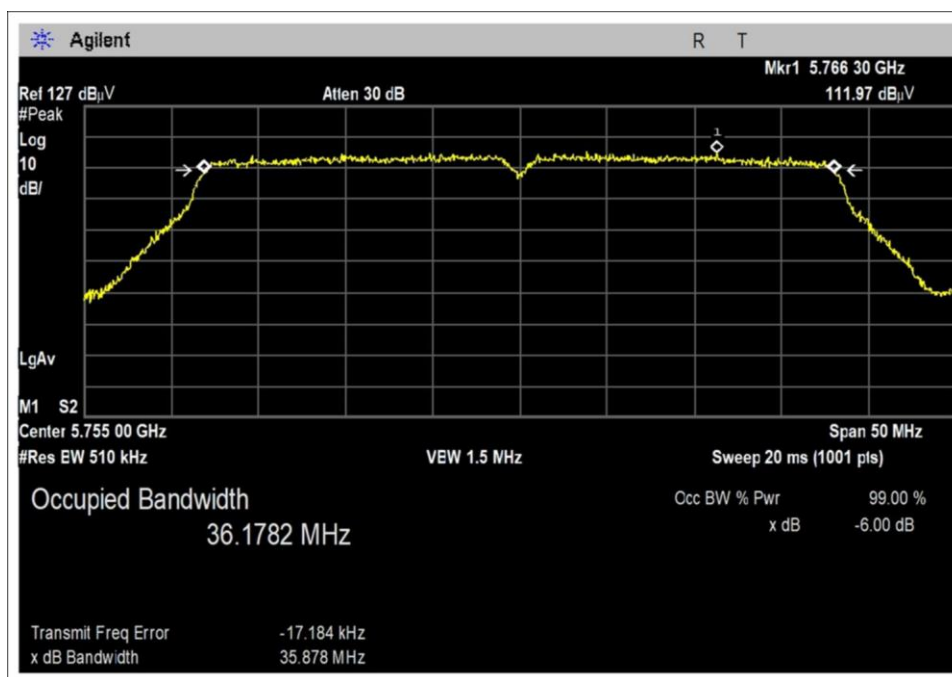
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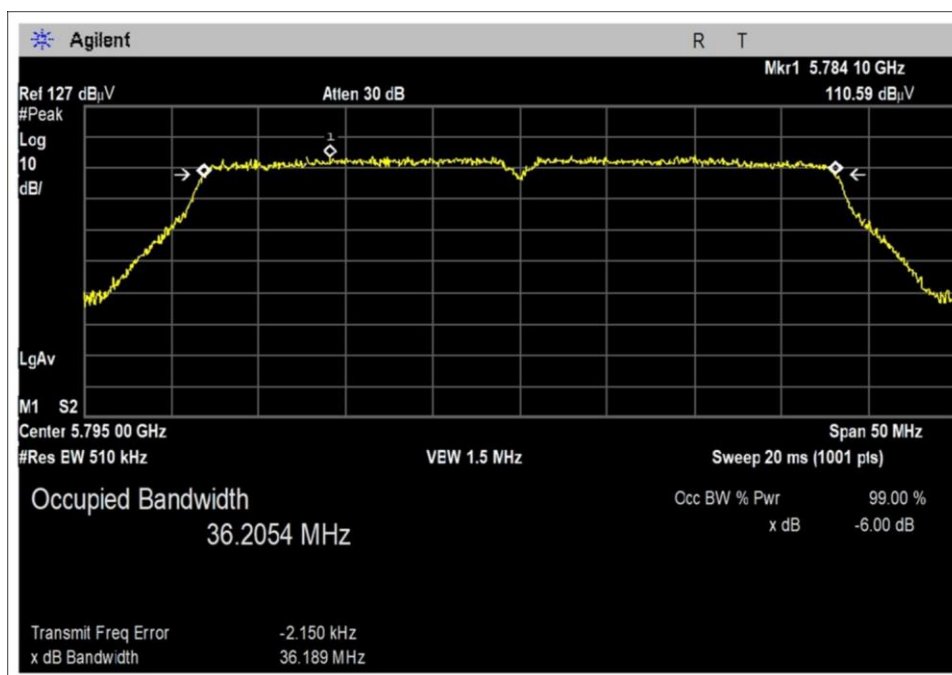
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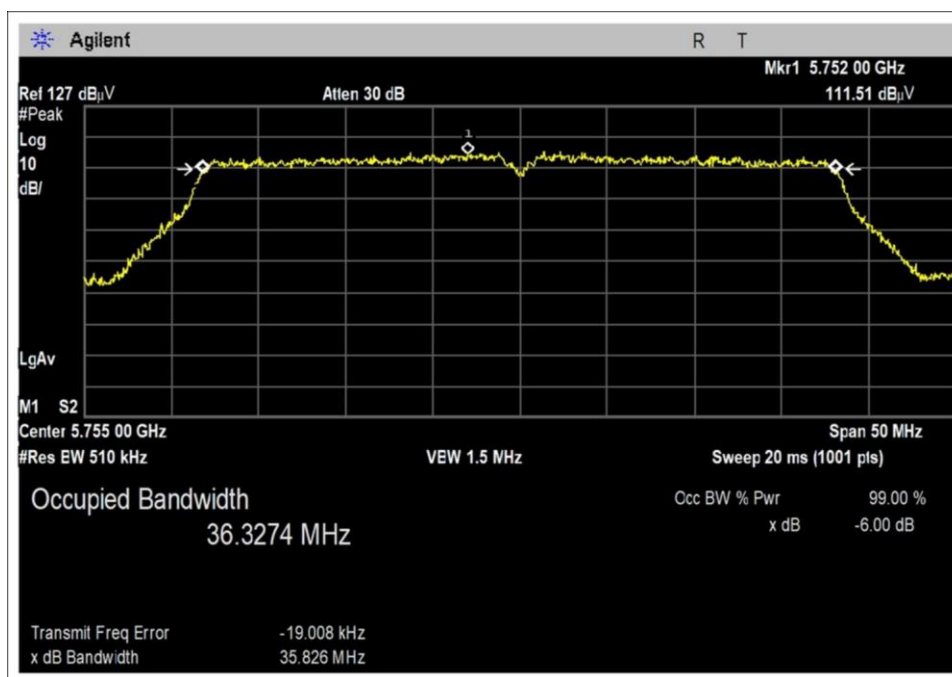
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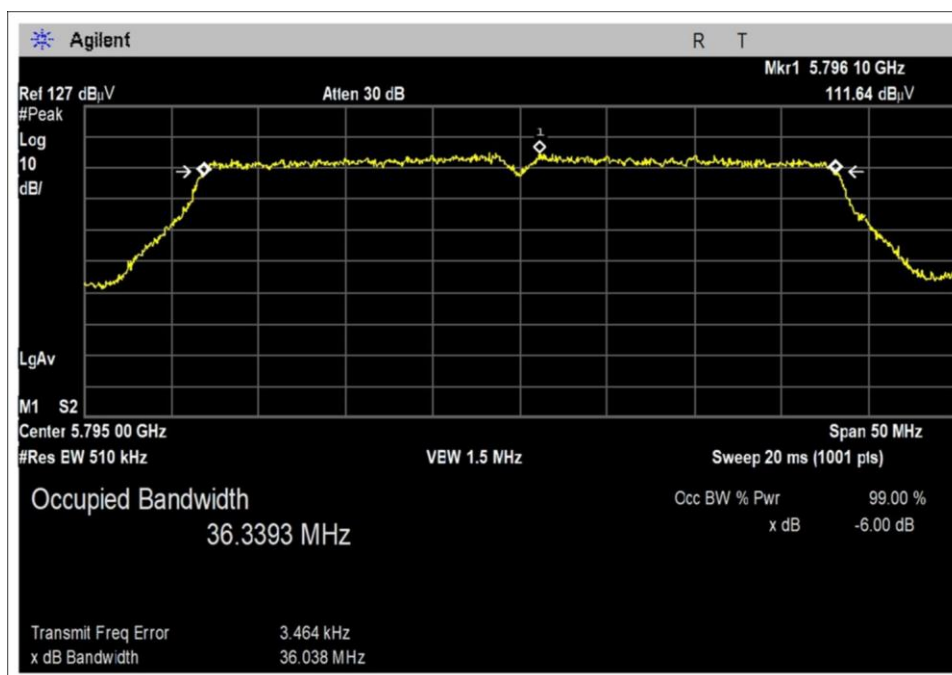
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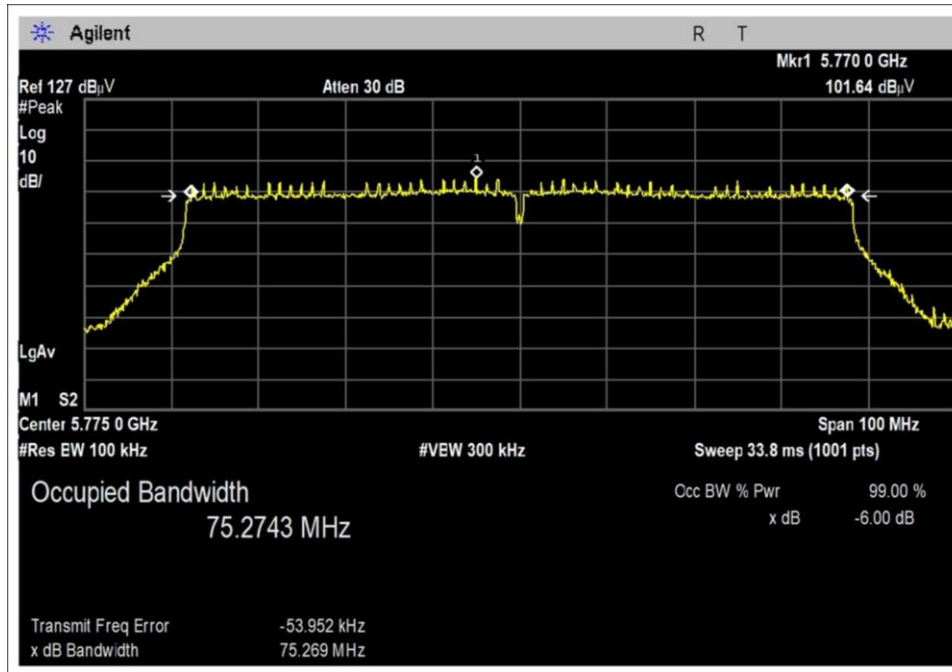


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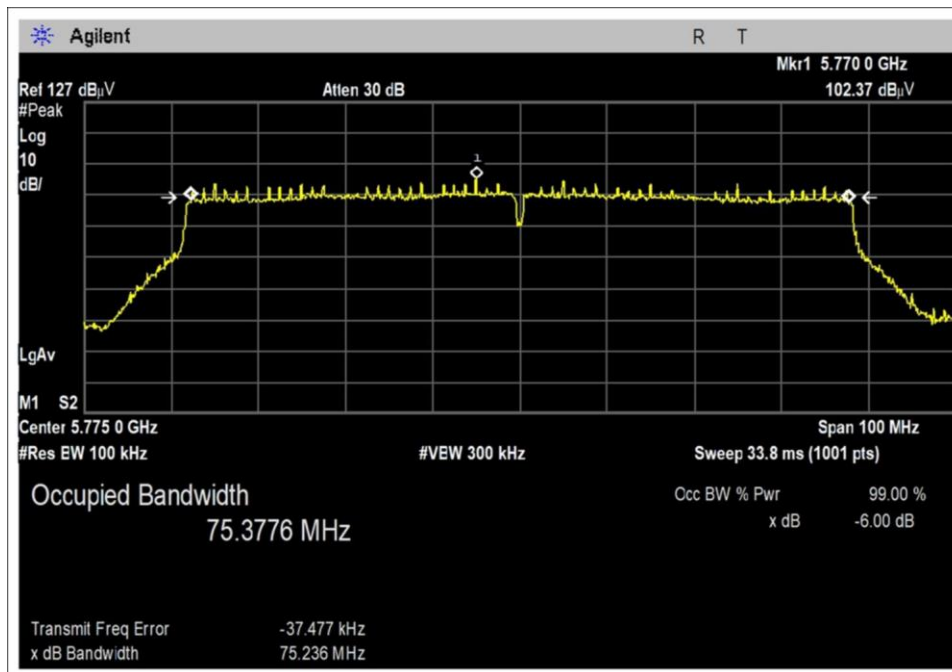


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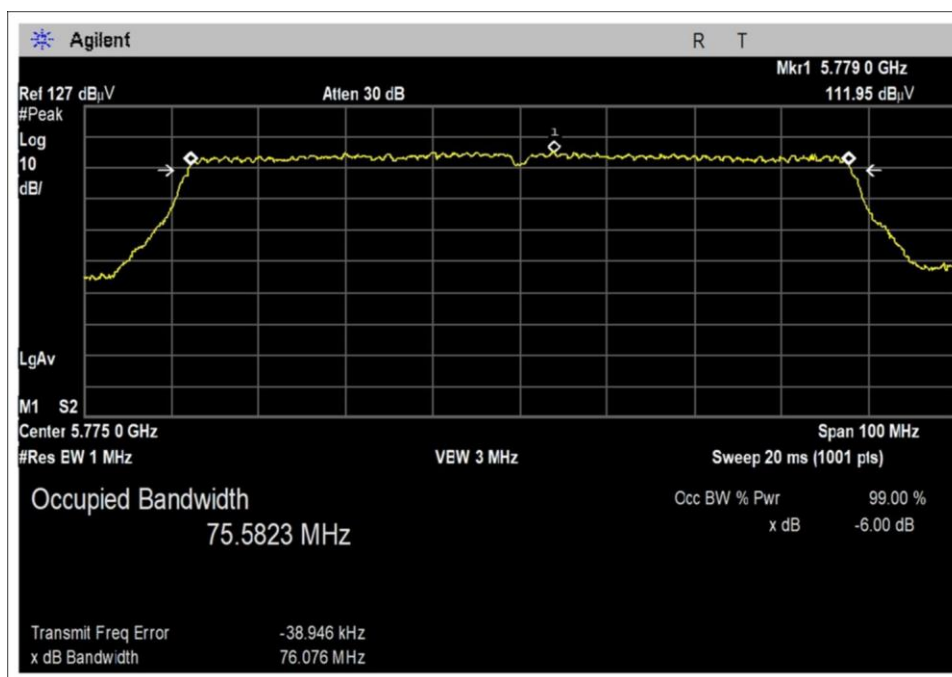
802.11ac80 Plot(s)



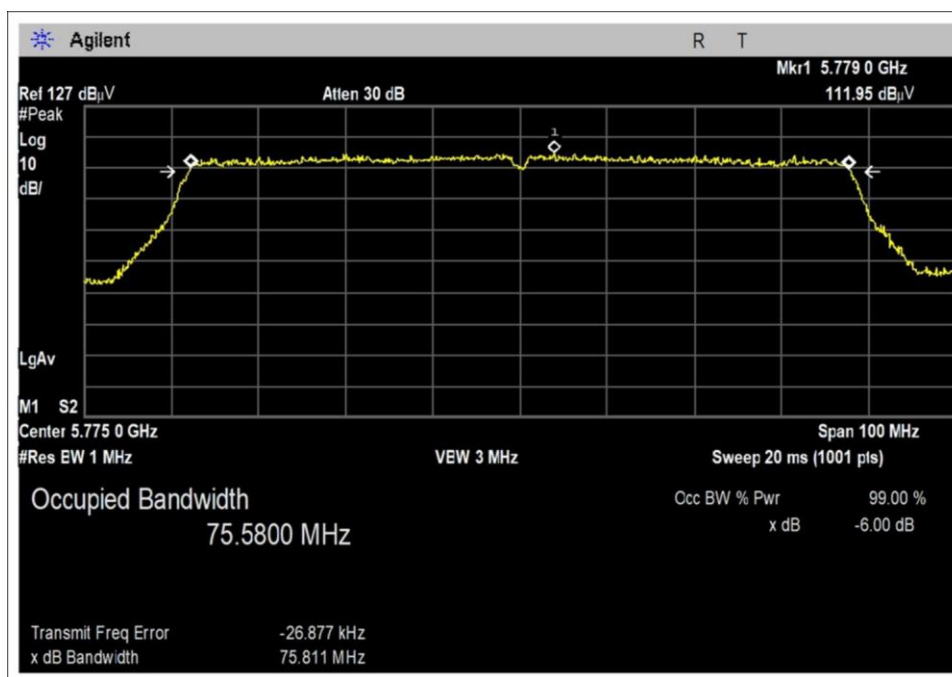
6dB BW AP0



6dB BW AP1

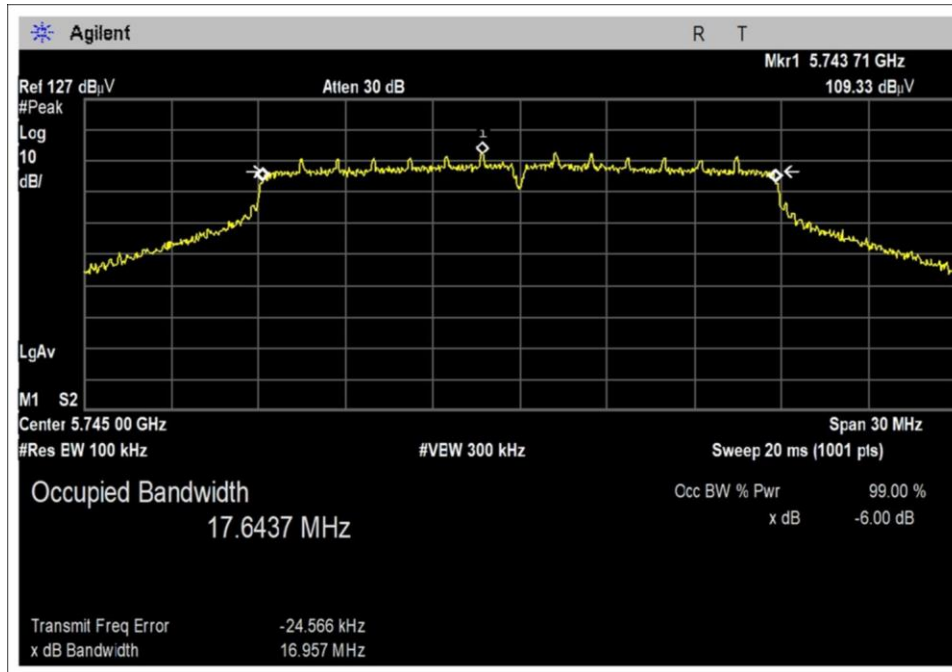


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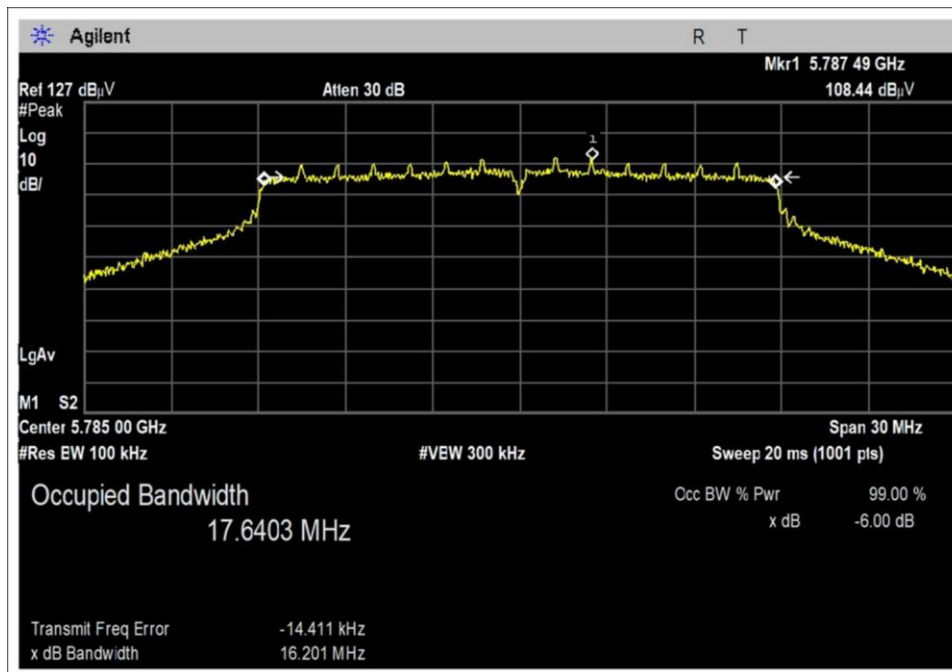


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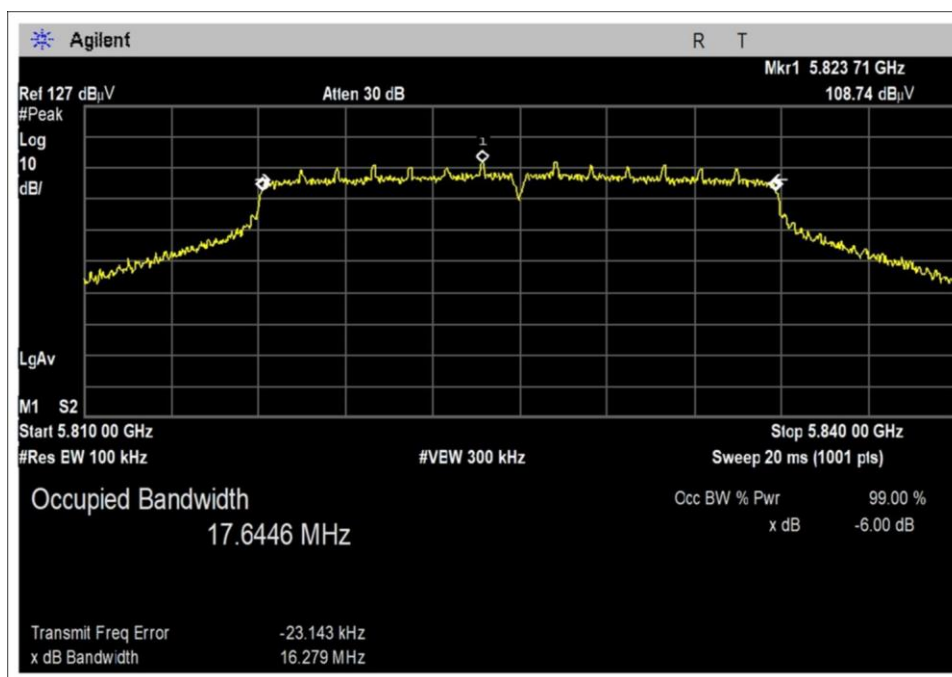
802.11n20 Plot(s)



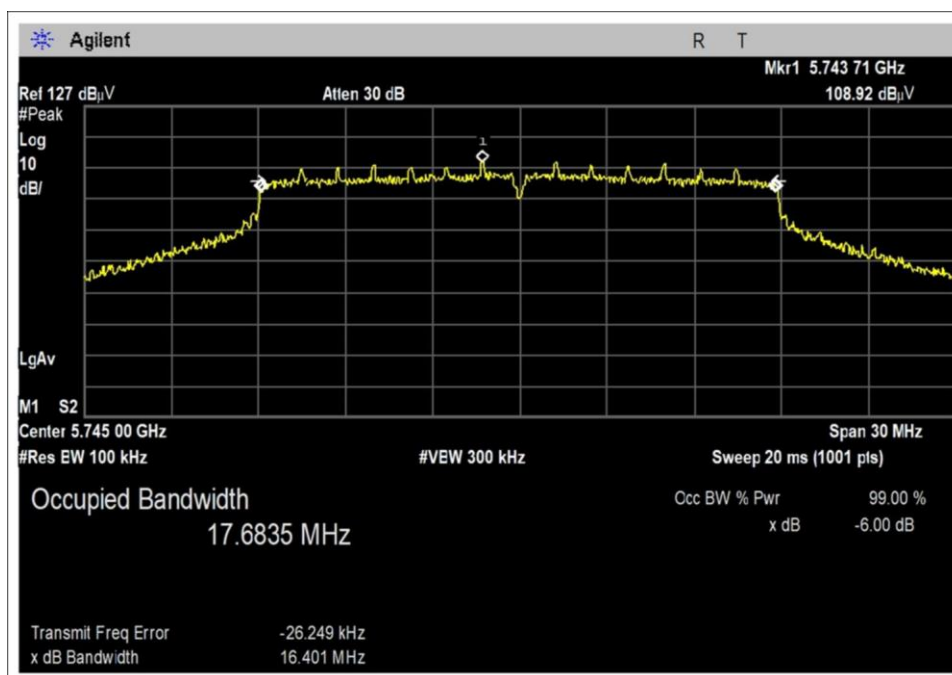
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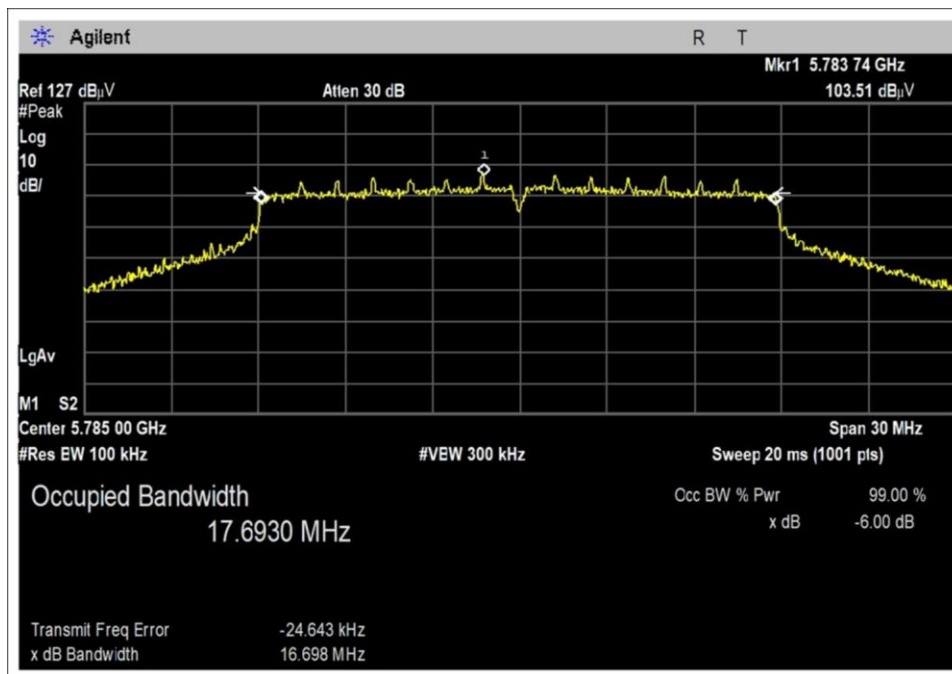
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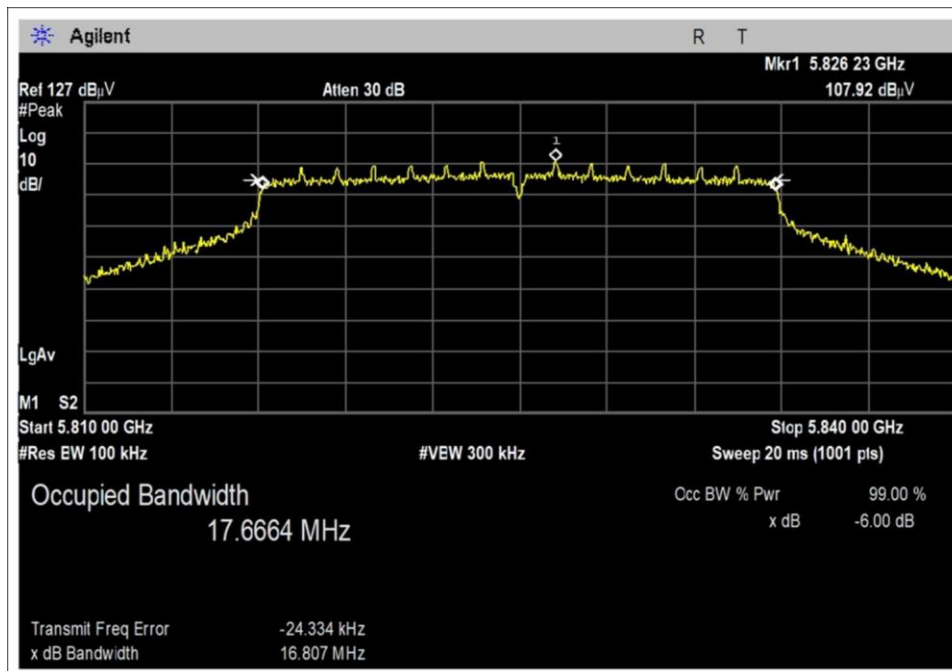
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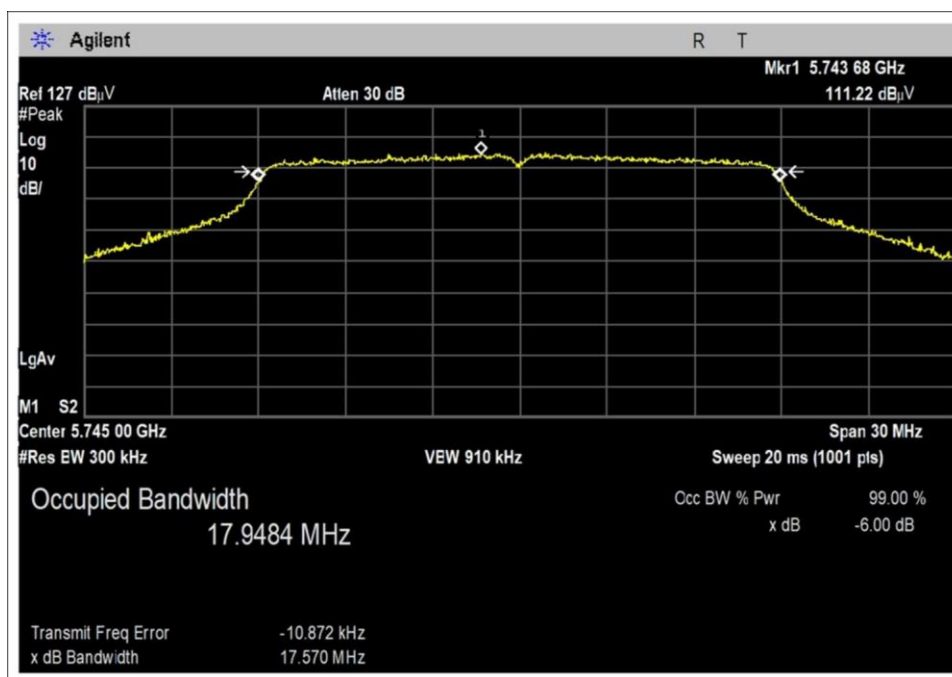
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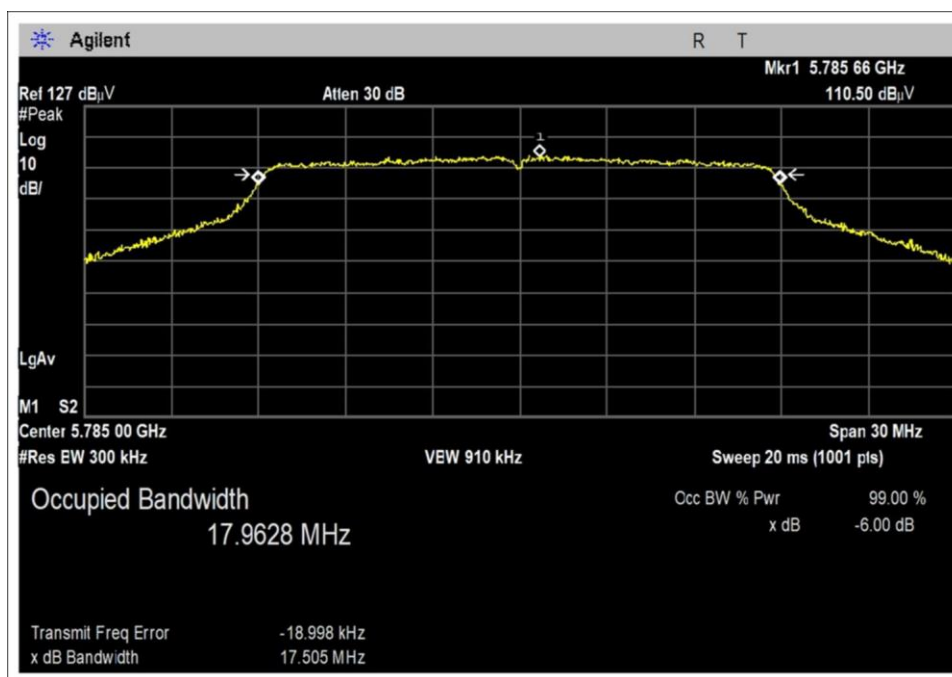
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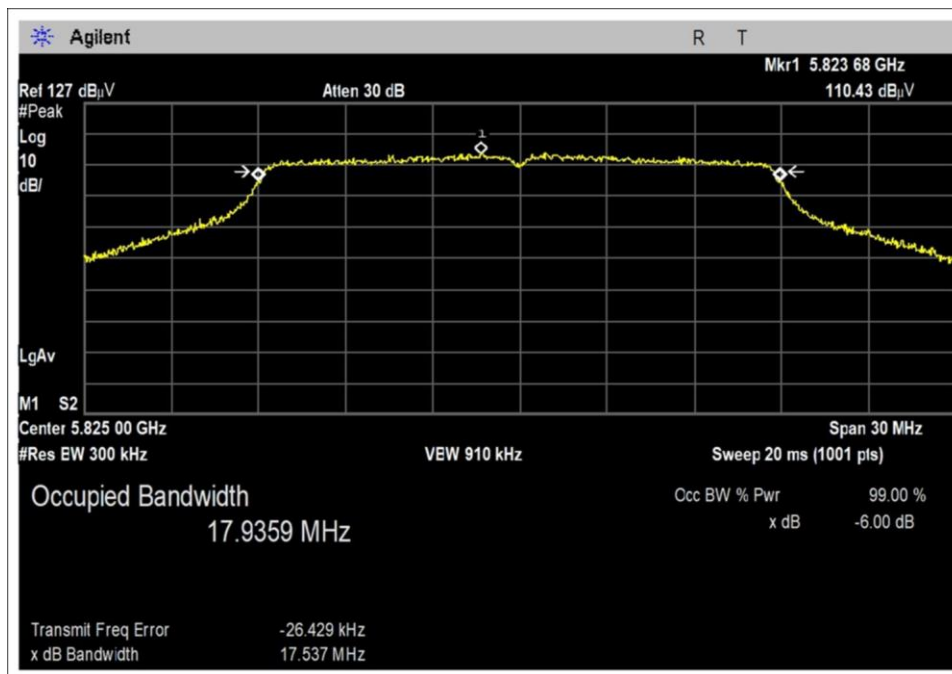
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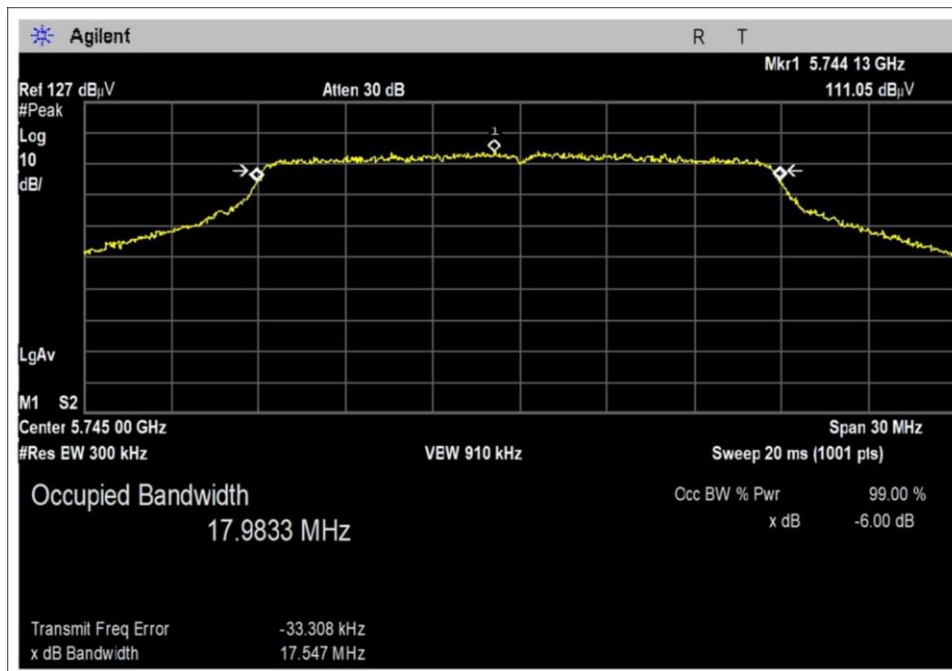
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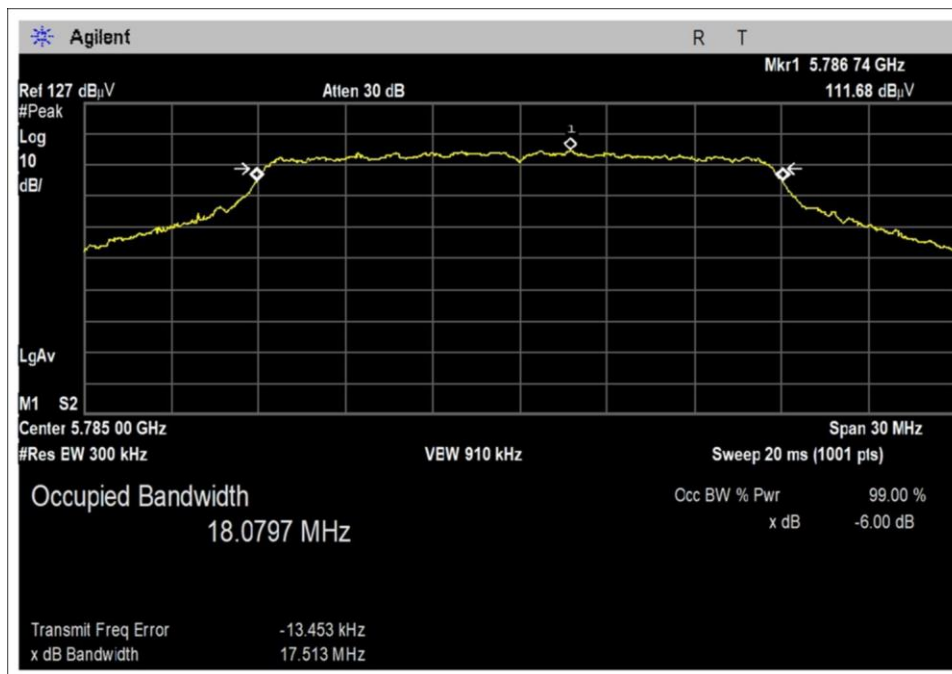
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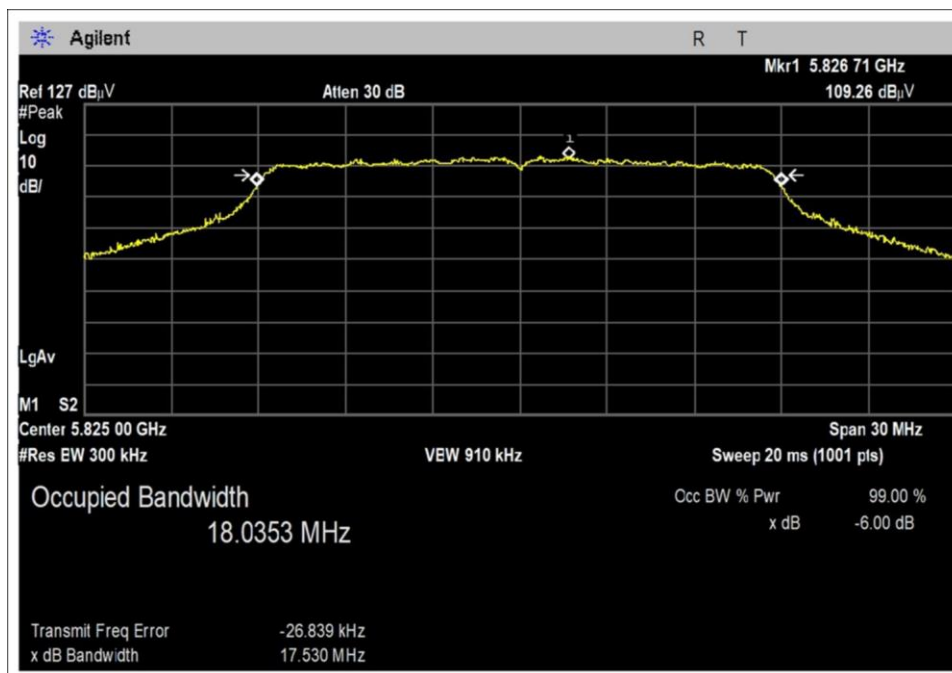
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99% OBW AP1 Low Channel

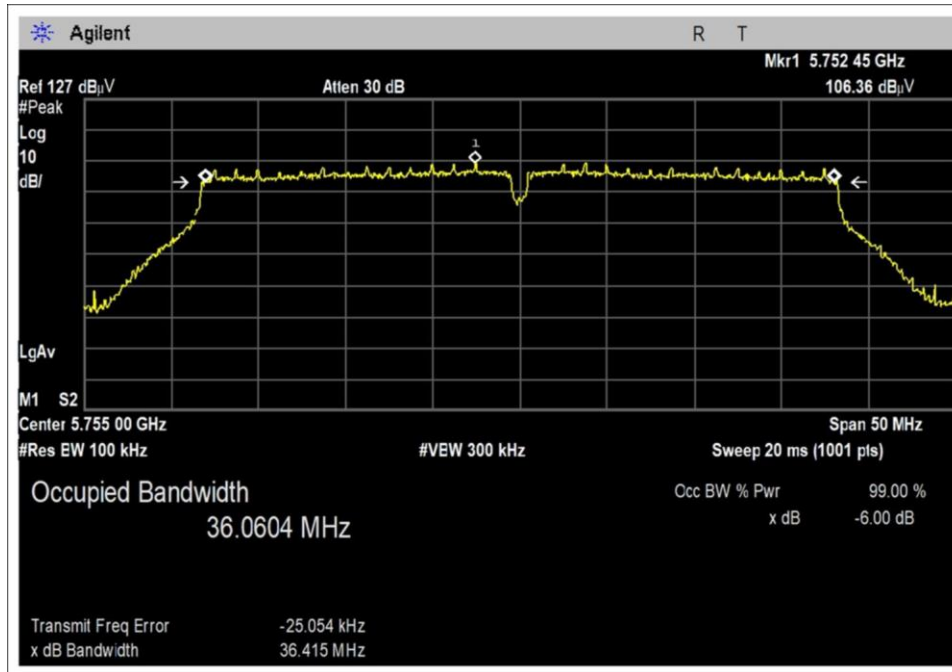


99% OBW AP1 Middle Channel

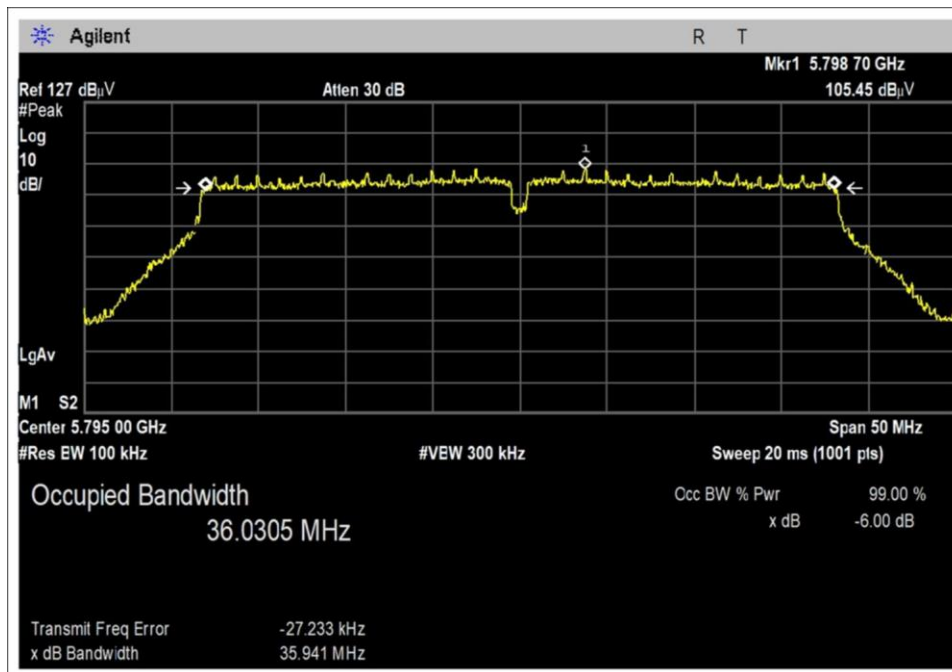


99% OBW AP1 High Channel

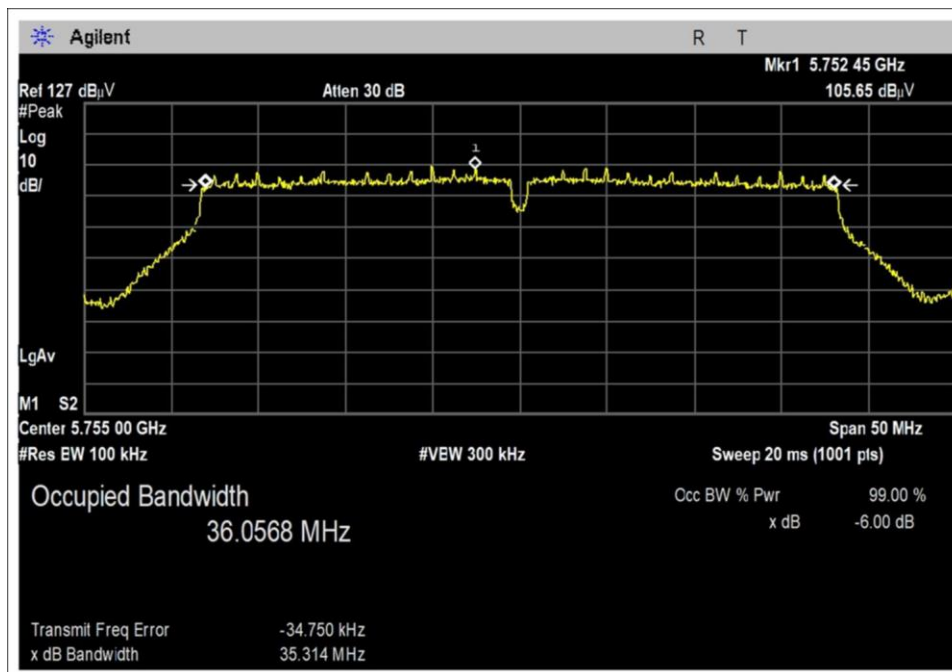
802.11n40 Plot(s)



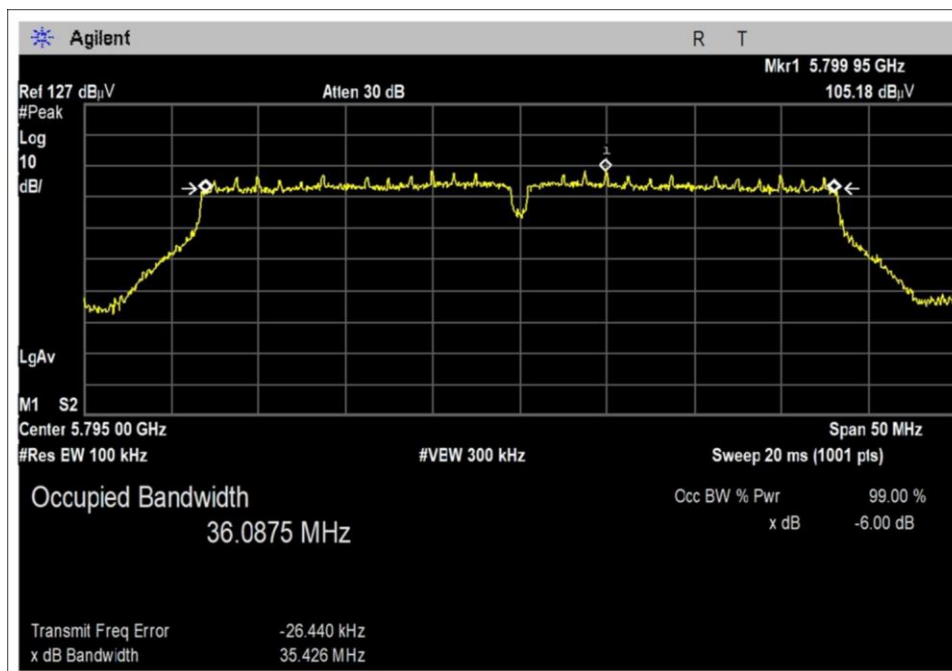
6dB BW AP0 Low Channel



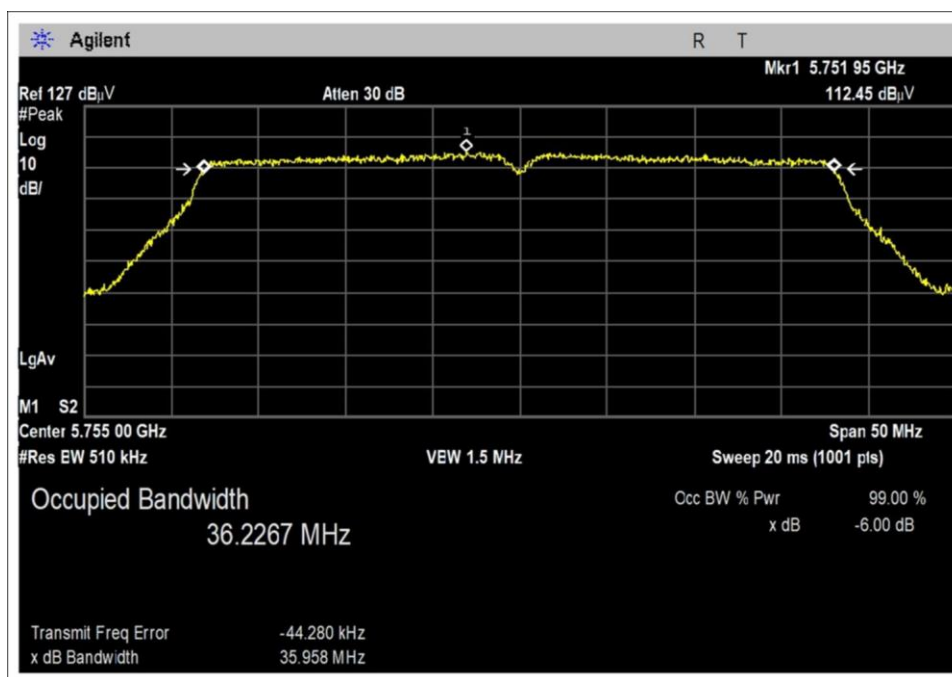
6dB BW AP0 High Channel



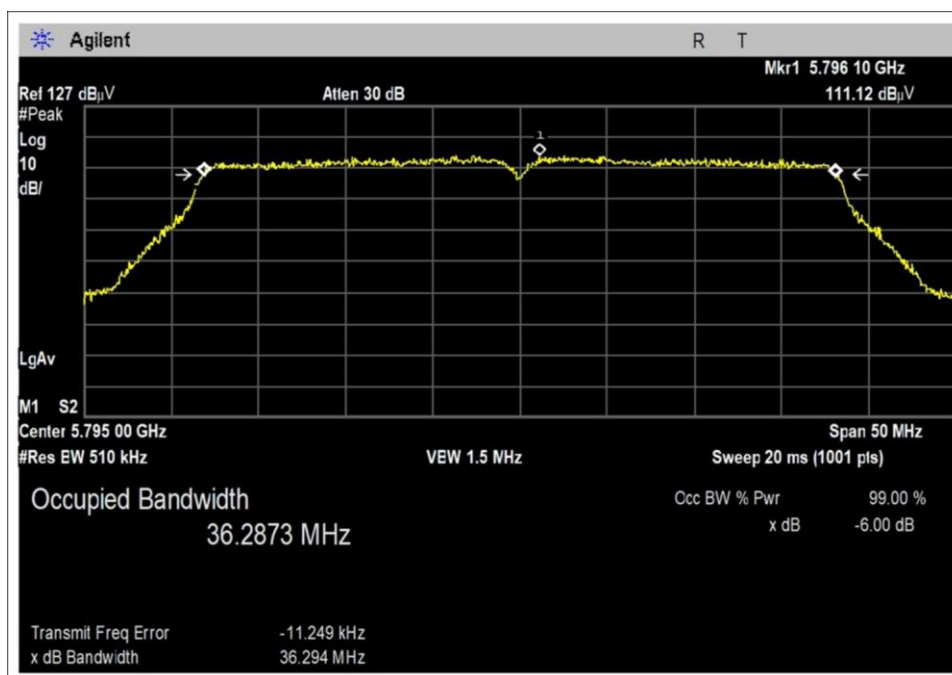
6dB BW AP1 Low Channel



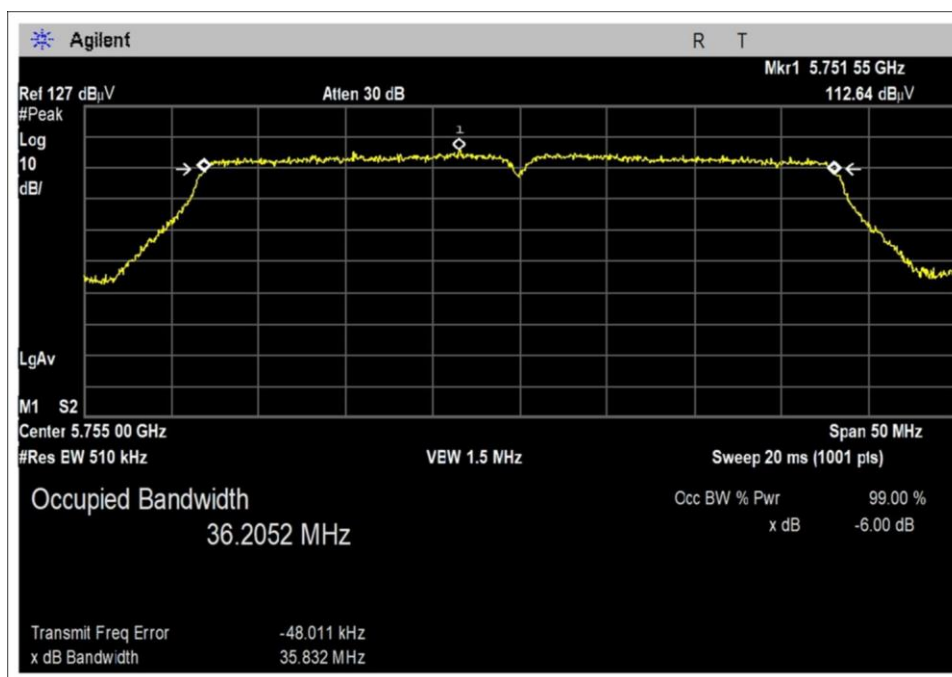
6dB BW AP1 High Channel



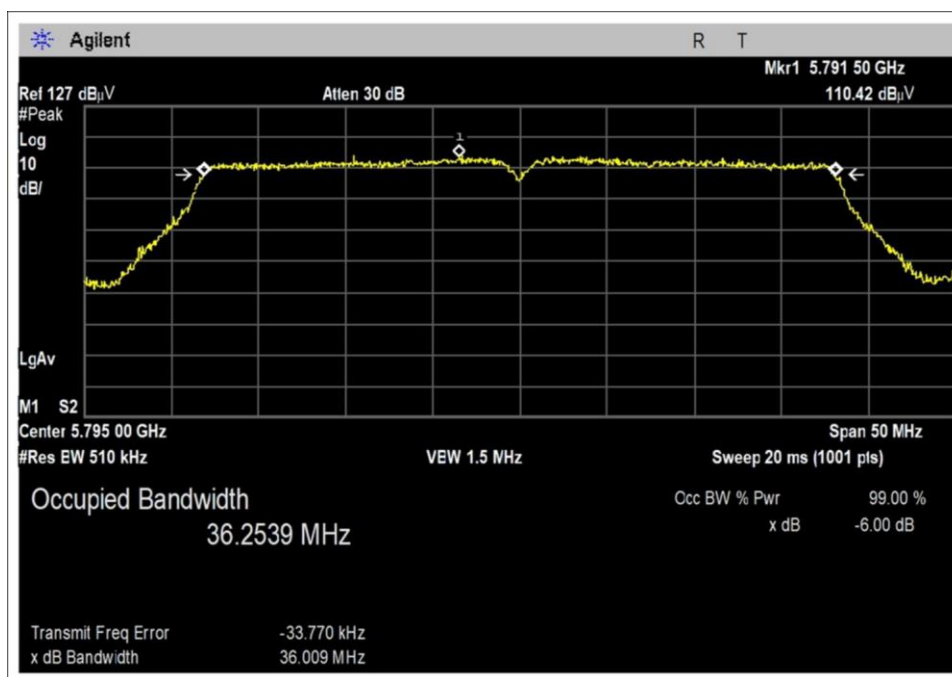
99% OBW AP0 Low Channel



99% OBW AP0 High Channel

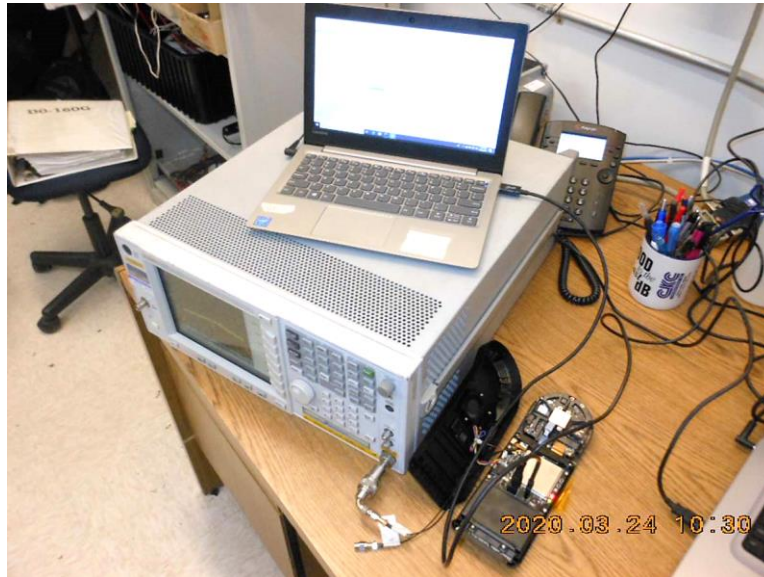


99% OBW AP1 Low Channel



99% OBW AP1 High Channel

Test Setup Photo(s)



15.407(a) Output Power

Test Setup/Conditions – RF Conducted Measurement			
Test Location:	Bothell Lab Bench	Test Engineer:	M. Harrison
Test Method:	ANSI C63.10 (2013), KDB 789033 v02r01 December 14, 2017) KDB 662911 (v02r01 10/31/2013)	Test Date(s):	4/6/2020
Configuration:	1		
Test Setup:	Duty Cycle: 100% (Test Mode) Test Mode: Continuously transmitting Test Setup: EUT is transmitting through the antenna port connector and is attached to the Power Meter. 802.11n and 802.11ac are MIMO and summed using KDB662911 (E)(1)		

Environmental Conditions			
Temperature (°C)	20	Relative Humidity (%):	35

Test Equipment – RF Conducted Measurement					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05748	Attenuator	Pasternack	PE7004-20	3/4/2020	3/4/2022
03530	Power Sensor	ETS	7002-006	6/6/2019	6/6/2021
01318	Multimeter	Fluke	Fluke 85	7/22/2019	7/22/2021
P07527	Variac	Simpson	NA	11/21/2018	11/21/2020

Test Data Summary - Voltage Variations					
Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBm)	V _{Nominal} (dBm)	V _{Maximum} (dBm)	Max Deviation from V _{Nominal} (dB)
5745	802.11a / 0	12.2	12.2	12.2	0
5785	802.11a / 0	11.6	11.6	11.6	0
5825	802.11a / 0	11.8	11.8	11.8	0
5745	802.11a / 1	12.5	12.5	12.5	0
5785	802.11a / 1	12.4	12.4	12.4	0
5825	802.11a / 1	11.6	11.6	11.6	0
5745	802.11n20 / 0	12	12	12	0
5785	802.11n20 / 0	11.4	11.4	11.4	0
5825	802.11n20 / 0	11.9	11.9	11.9	0
5745	802.11n20 / 1	12.5	12.5	12.5	0
5785	802.11n20 / 1	12.7	12.7	12.7	0
5825	802.11n20 / 1	11.9	11.9	11.9	0
5755	802.11n40 / 0	12.5	12.5	12.5	0
5795	802.11n40 / 0	11.8	11.9	11.9	0.1
5755	802.11n40 / 1	12.2	12.3	12.2	0.1
5795	802.11n40 / 1	12.1	12.1	12.1	0
5745	802.11ac20 / 0	12.1	12.1	12.1	0
5785	802.11ac20 / 0	11.3	11.3	11.3	0
5825	802.11ac20 / 0	11.4	11.4	11.4	0
5745	802.11ac20 / 1	12.5	12.5	12.5	0
5785	802.11ac20 / 1	12.3	12.3	12.3	0
5825	802.11ac20 / 1	11.6	11.6	11.6	0
5755	802.11ac40 / 0	11.5	11.5	11.5	0
5795	802.11ac40 / 0	10.6	10.7	10.7	0.1
5755	802.11ac40 / 1	11.7	11.7	11.7	0
5795	802.11ac40 / 1	11.1	11.1	11.1	0
5775	802.11ac80 / 0	10.4	10.4	10.4	0
5775	802.11ac80 / 1	10.5	10.5	10.6	0.1

Test performed using operational mode with the highest output power, representing worst case.

Parameter Definitions:

Measurements performed at input voltage V_{Nominal} ± 15%.

Parameter	Value
V _{Nominal} :	120
V _{Minimum} :	102
V _{Maximum} :	138

Test Data Summary - RF Conducted Measurement

Measurement Option: AVGPM

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Limit (dBm)	Results
5745	802.11a / 0	Linear Polarized / 5.3	12.2	≤30	Pass
5785	802.11a / 0	Linear Polarized / 5.3	11.6	≤30	Pass
5825	802.11a / 0	Linear Polarized / 5.3	11.8	≤30	Pass
5745	802.11a / 1	Linear Polarized / 5.9	12.5	≤30	Pass
5785	802.11a / 1	Linear Polarized / 5.9	12.4	≤30	Pass
5825	802.11a / 1	Linear Polarized / 5.9	11.6	≤30	Pass

Test Data Summary - RF Conducted Measurement

Measurement Option: AVGPM

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Summed Power (dBm)	Limit (dBm)	Results
5745	802.11n20 / 0	Linear Polarized / 5.3	12	15.3	≤30	Pass
5745	802.11n20 / 1	Linear Polarized / 5.9	12.5			
5785	802.11n20 / 0	Linear Polarized / 5.3	11.4	15.1	≤30	Pass
5785	802.11n20 / 1	Linear Polarized / 5.9	12.7			
5825	802.11n20 / 0	Linear Polarized / 5.3	11.9	14.9	≤30	Pass
5825	802.11n20 / 1	Linear Polarized / 5.9	11.9			
5755	802.11n40 / 0	Linear Polarized / 5.3	12.5	15.4	≤30	Pass
5755	802.11n40 / 1	Linear Polarized / 5.9	12.3			
5795	802.11n40 / 0	Linear Polarized / 5.3	11.9	15.0	≤30	Pass
5795	802.11n40 / 1	Linear Polarized / 5.9	12.1			

Test Data Summary - RF Conducted Measurement

Measurement Option: AVGPM

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Summed Power (dBm)	Limit (dBm)	Results
5745	802.11ac20 / 0	Linear Polarized / 5.3	12.1	15.3	≤30	Pass
5745	802.11ac20 / 1	Linear Polarized / 5.9	12.5			
5785	802.11ac20 / 0	Linear Polarized / 5.3	11.3	14.8	≤30	Pass
5785	802.11ac20 / 1	Linear Polarized / 5.9	12.3			
5825	802.11ac20 / 0	Linear Polarized / 5.3	11.4	14.5	≤30	Pass
5825	802.11ac20 / 1	Linear Polarized / 5.9	11.6			
5755	802.11ac40 / 0	Linear Polarized / 5.3	11.5	14.6	≤30	Pass
5755	802.11ac40 / 1	Linear Polarized / 5.9	11.7			
5795	802.11ac40 / 0	Linear Polarized / 5.3	10.7	13.9	≤30	Pass
5795	802.11ac40 / 1	Linear Polarized / 5.9	11.1			
5775	802.11ac80 / 0	Linear Polarized / 5.3	10.4	13.5	≤30	Pass
5775	802.11ac80 / 1	Linear Polarized / 5.9	10.5			

For equipment using antennas other than in fixed point-to-point applications, the limit is calculated in accordance with 15.407(a)(3):

$$\text{Limit} = 30 - \text{Roundup}(G - 6)$$

For equipment using antennas in fixed point-to-point applications, the limit is calculated in accordance with 15.407(a)(3):

$$\text{Limit} = 30$$

Test Setup Photo(s)



15.407(a) Power Spectral Density

Test Setup/Conditions - RF Conducted Measurement			
Test Location:	Bothell Lab Bench	Test Engineer:	M. Harrison
Test Method:	ANSI C63.10 (2013), KDB 789033 (v02r01 December 14, 2017) KDB 662911 (v02r01 10/31/2013)	Test Date(s):	4/8/2020
Configuration:	1		
Test Setup:	Duty Cycle: 100% (Test Mode) Test Mode: Continuously transmitting Test Setup: EUT is transmitting through the antenna port connector and is attached to the spectrum analyzer.		

Environmental Conditions			
Temperature (°C)	21	Relative Humidity (%):	43

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02673	Spectrum Analyzer	Agilent	E4446A	2/22/2019	2/22/2021

Test Data Summary - RF Conducted Measurement

Measurement Option: AVGSA-1

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm/500kHz)	Limit (dBm/500kHz)	Results
5745	802.11a / 0	Linear Polarized / 5.3	-1.22	≤30	Pass
5785	802.11a / 0	Linear Polarized / 5.3	-2.18	≤30	Pass
5825	802.11a / 0	Linear Polarized / 5.3	-1.68	≤30	Pass
5745	802.11a / 1	Linear Polarized / 5.9	-1.35	≤30	Pass
5785	802.11a / 1	Linear Polarized / 5.9	-1.46	≤30	Pass

Test Data Summary - RF Conducted Measurement

802.11n and 802.11ac are MIMO and are Summed using KDB662911 (E)(2)(b)

Measurement Option: AVGPM

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Summed Power (dBm)	Limit (dBm)	Results
5745	802.11n20 / 0	Linear Polarized / 5.3	-1.85	1.5	≤30	Pass
5745	802.11n20 / 1	Linear Polarized / 5.9	-1.28			
5785	802.11n20 / 0	Linear Polarized / 5.3	-2.81	0.3	≤30	Pass
5785	802.11n20 / 1	Linear Polarized / 5.9	-2.64			
5825	802.11n20 / 0	Linear Polarized / 5.3	-2.77	0.3	≤30	Pass
5825	802.11n20 / 1	Linear Polarized / 5.9	-2.75			
5755	802.11n40 / 0	Linear Polarized / 5.3	-4.84	-1.8	≤30	Pass
5755	802.11n40 / 1	Linear Polarized / 5.9	-4.71			
5795	802.11n40 / 0	Linear Polarized / 5.3	-5.57	-2.5	≤30	Pass
5795	802.11n40 / 1	Linear Polarized / 5.9	-5.54			

Test Data Summary - RF Conducted Measurement

802.11n and 802.11ac are MIMO and are Summed using KDB662911 (E)(2)(b)

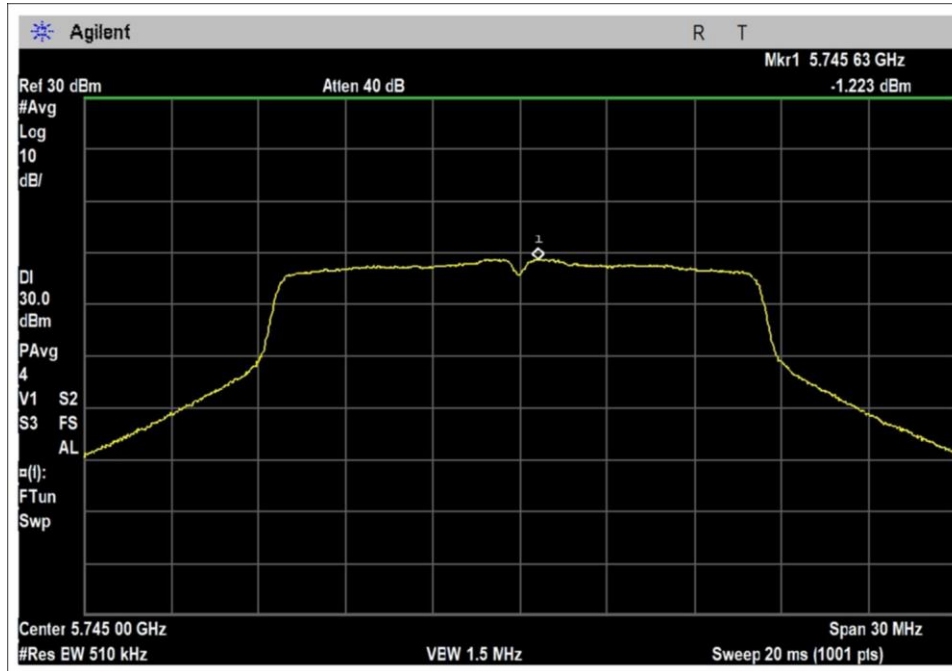
Measurement Option: AVGPM

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Summed Power (dBm)	Limit (dBm)	Results
5745	802.11ac20 / 0	Linear Polarized / 5.3	-2.19	1.4	≤30	Pass
5745	802.11ac20 / 1	Linear Polarized / 5.9	-1.09			
5785	802.11ac20 / 0	Linear Polarized / 5.3	-2.99	0.6	≤30	Pass
5785	802.11ac20 / 1	Linear Polarized / 5.9	-1.87			
5825	802.11ac20 / 0	Linear Polarized / 5.3	-3.02	0.3	≤30	Pass
5825	802.11ac20 / 1	Linear Polarized / 5.9	-2.46			
5755	802.11ac40 / 0	Linear Polarized / 5.3	-4.55	-1.4	≤30	Pass
5755	802.11ac40 / 1	Linear Polarized / 5.9	-4.24			
5795	802.11ac40 / 0	Linear Polarized / 5.3	-5.69	-2.3	≤30	Pass
5795	802.11ac40 / 1	Linear Polarized / 5.9	-4.97			
5775	802.11ac80 / 0	Linear Polarized / 5.3	-8.95	-5.8	≤30	Pass
5775	802.11ac80 / 1	Linear Polarized / 5.9	-8.7			

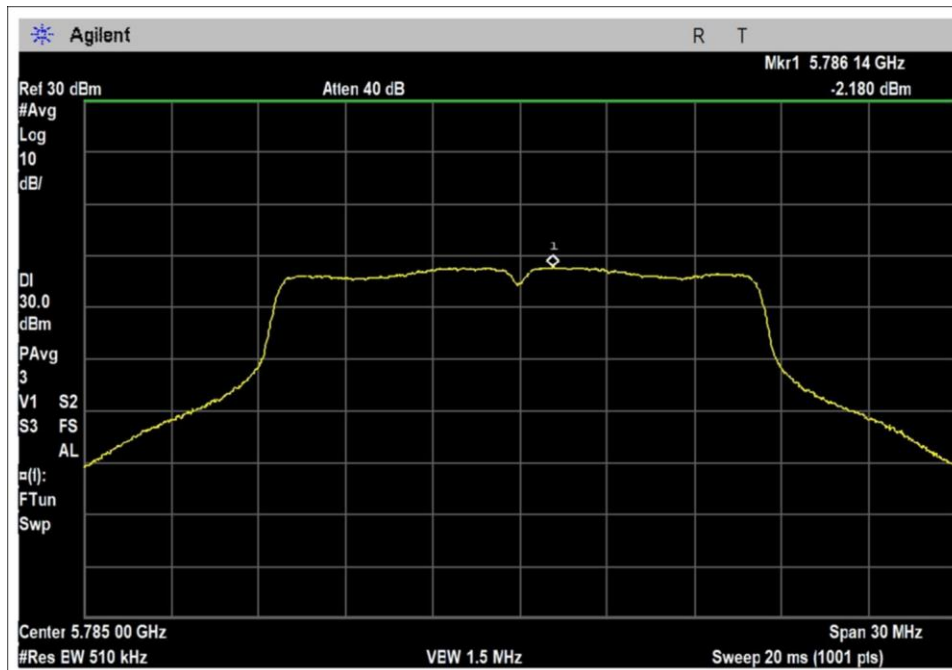
Note: 26dB BW is greater than 500kHz; therefore, 500kHz RBW was used.

RF Conducted Measurement

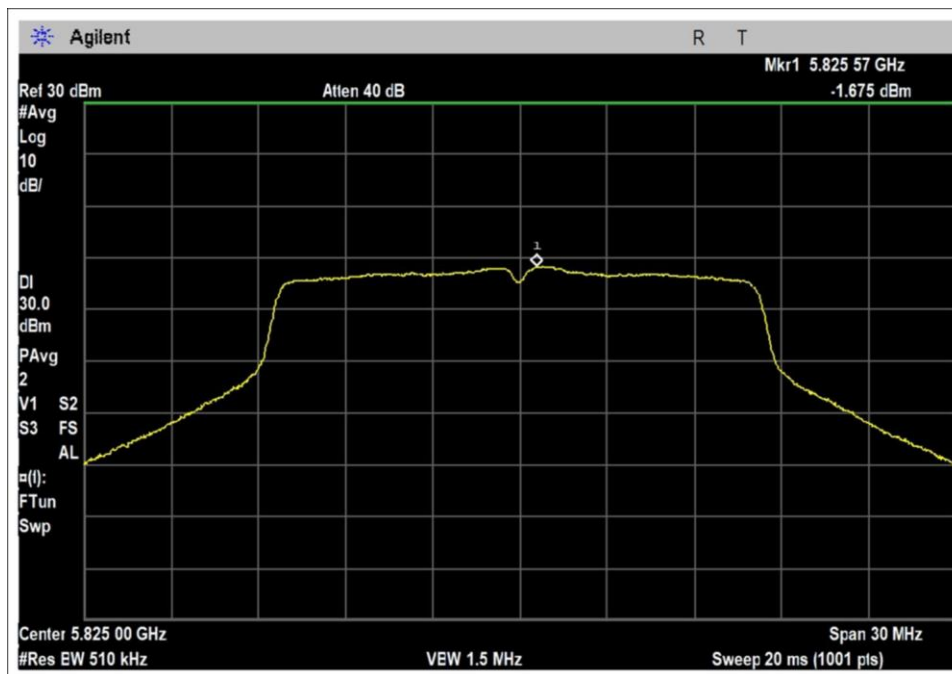
802.11a Test Data



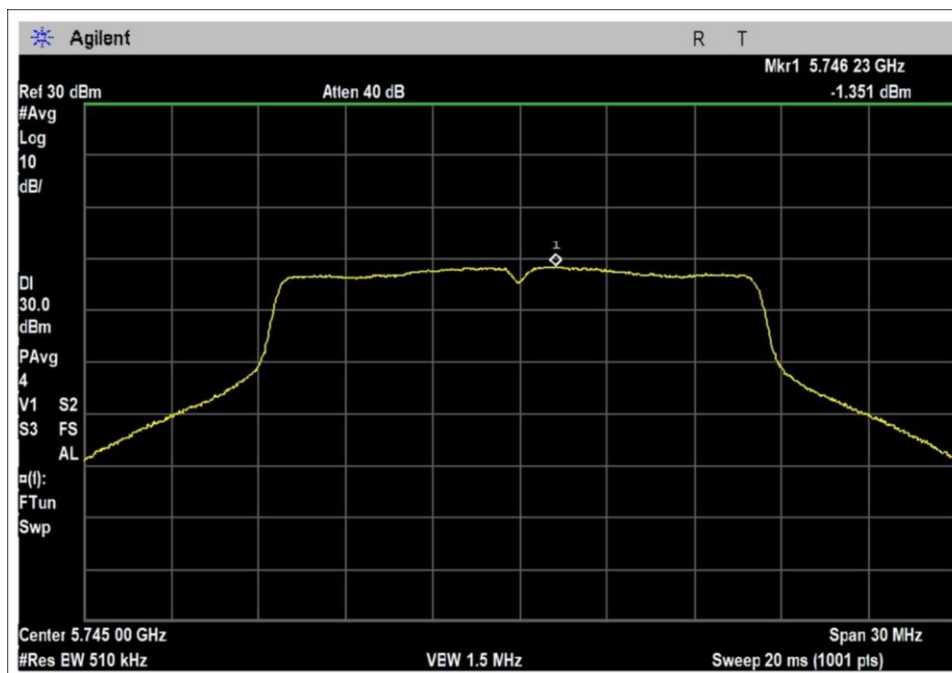
APO Low Channel



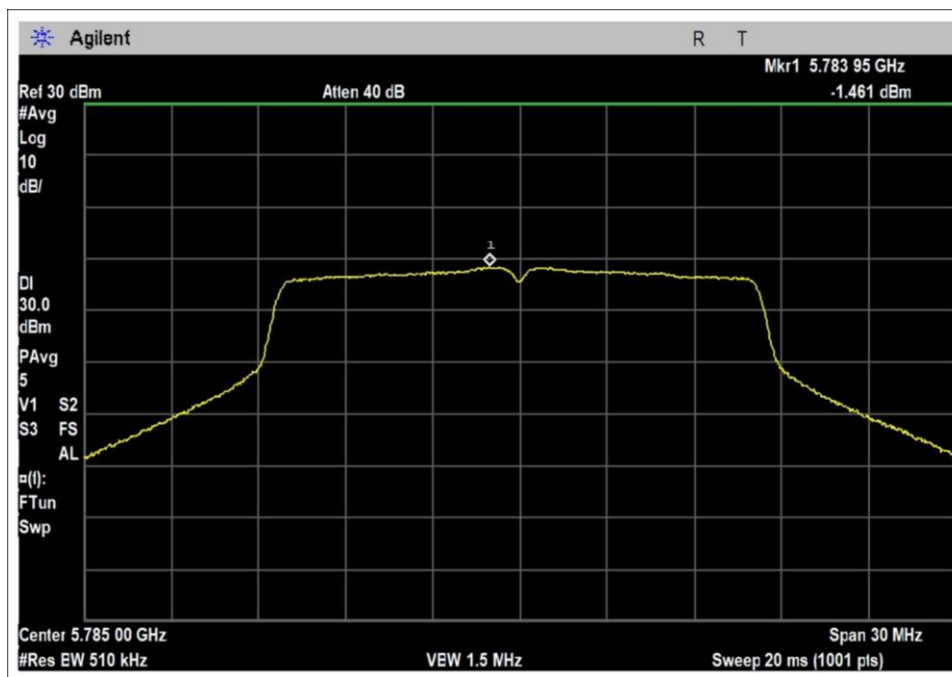
APO Middle Channel



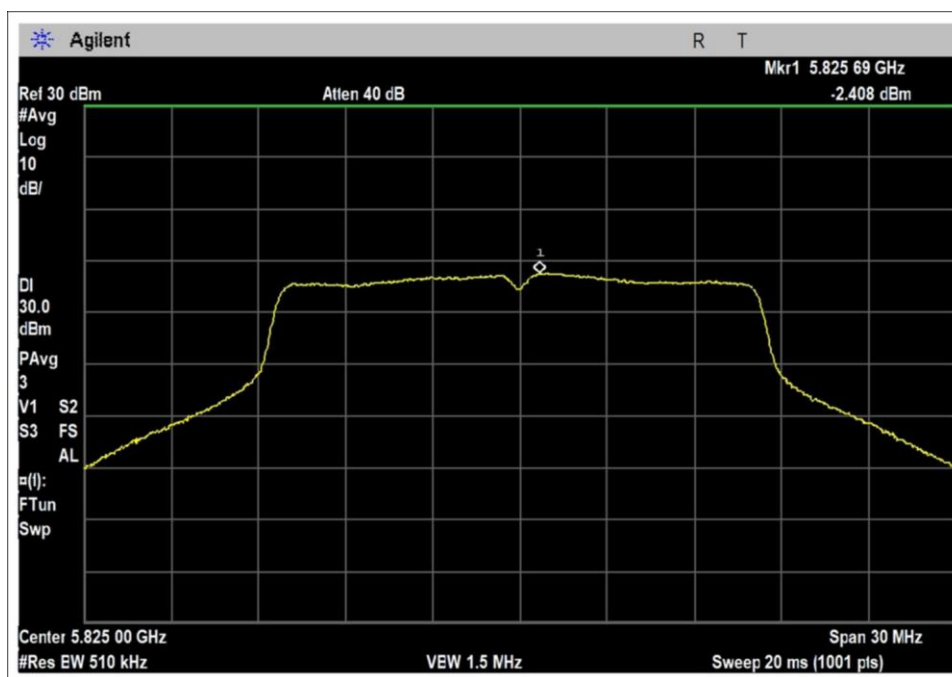
APO High Channel



AP1 Low Channel



AP1 Middle Channel



AP1 High Channel