

FCC and ISED Test Report

Apple Inc
Model: A3113

In accordance with FCC 47 CFR Part 15E, ISED
RSS-248 and ISED RSS-GEN
(6 GHz WLAN)

Prepared for: Apple Inc
One Apple Park Way
Cupertino
California
95014
USA

FCC ID: BCGA3113

IC: 579C-A3113

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Steven White	Senior Technical Specialist	Authorised Signatory	28 November 2023

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15E, ISED RSS-248 and ISED RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Report Generation	Lauren Walters	28 November 2023	

FCC Accreditation

553713/UK2026 Concorde Park, Fareham Test Laboratory

ISED Accreditation

28798 Concorde Park, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15E: 2021, ISED RSS-248: Issue 2 (2022-12) and ISED RSS-GEN: Issue 5 (2018-04) +A2 (2021-02) for the tests detailed in section 1.3.



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	17-November-2023
2	Updated Section 2.2 & 2.3	28-November-2023

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
Model Number(s)	A3113
Serial Number(s)	QVVKQ44WGR, KVQP772HX1, XXRVY66Q51, D6HCD7RY3W, FYL0QJ76JQ, J1HGXFV9V04 and HPHV6327GY
Hardware Version(s)	REV 1.0
Software Version(s)	23A32770p, 23A32771a, 23A32770p, 23A32770p, 23A32770p, 23A32771a and 23B26
Number of Samples Tested	7
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2021 ISED RSS-248: Issue 2 (2022-12) ISED RSS-GEN: Issue 5 (2018-04) +A2 (2021-02)
Start of Test	15-August-2023
Finish of Test	06-November-2023
Name of Engineer(s)	David Hill, Feda Hussein, Jayvir Makwana, Mustafa Murad, Colin Brain, Dale Hills, Manohar Thota, Michael Evans, Morsalin Hossain, Nicolae Mihailiuc, Elliot Callender, James Woods, Stefan Gilfedder and Tjiyandjeua Tjizumaue
Related Document(s)	ANSI C63.10 (2013) ANSI C63.10 (2020) KDB 662911 D01 v02r01 KDB 789033 D02 v02r01 KDB 987594 D02 v02r01



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E, ISSED RSS-248 and ISSED RSS-GEN is shown below.

Section	Specification Clause			Test Description	Result	Comments/Base Standard
	Part 15E	RSS-248	RSS-GEN			
Configuration and Mode: 6 GHz WLAN						
-	15.203	-	-	Antenna Requirement	N/T	The device complies with the provisions of this section, as it uses permanently attached integral antennas.
2.1	15.407 (a)	4.4	6.7	Emission Bandwidth	Pass	KDB 789033 D02 v02r01
2.2	15.407 (a)	4.5	6.12	Maximum Conducted Output Power	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.3	15.407 (a)	4.5	-	Maximum Conducted Power Spectral Density	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.4	15.407 (b)	4.6	6.13	Authorised Band Edges	Pass	ANSI C63.10 (2013) ANSI C63.10 (2020) KDB 789033 D02 v02r01
2.5	15.209 and 15.407 (b)	4.6	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2013) ANSI C63.10 (2020) KDB 789033 D02 v02r01
2.6	15.407 (b)	4.6	6.13	Unwanted Emissions within the 5925-7125 MHz band	Pass	KDB 987594 D02 v02r01
2.7	15.407 (d)(6)	4.7	-	Contention Based Protocol	Pass	KDB 987594 D02 v02r01

Table 2



1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a portable laptop computer.

1.4.2 Test Modes

The EUT's 6 GHz 802.11 radio supported SISO (Single Input/Single Output) and 2x2 MIMO (Multiple Input/Multiple Output) modes. 802.11a supports 20 MHz bandwidth only. 802.11ax supported 20 MHz, 40 MHz, 80 MHz and 160 MHz bandwidths.

802.11a mode supported SISO operation only. 802.11ax supported SISO, Cyclic Delay Diversity (CDD) and Space Division Multiplexing (SDM) modes. It also supported Transmit Beamforming (TxBF) mode on 20 MHz, 40 MHz and 80 MHz bandwidths. The EUT supported 802.11ax Single User (SU) and Multi-User (MU) with all Resource Unit (RU) sizes from 26 subcarriers, up to the maximum allowed, dependent on channel bandwidth.

The EUT is categorized a Dual Client (6CD) operating in the 5.925-7.125 GHz bands. It will operate under the control of a Low Power Indoor (LPI) access point, or a standard power access point.

The EUT uses different output powers per core dependent on how many cores are used. The EUT also uses different power tables for Cyclic Delay Diversity (CDD), Space Division Multiplexing (SDM) and Transmit Beamforming (TxBF) modes. It uses the same conducted power across all cores in any given mode, but due to the different antenna gains the radiated powers per core differ.

After preliminary investigations were performed to find worst-case operation, the EUT was tested in the following modes:

SISO Modes (Core 0 or 1):

- 802.11a – 12 Mbps
- 802.11ax HE20 SU – MCS2x1
- 802.11ax HE40 SU – MCS2x1
- 802.11ax HE80 SU – MCS2x1
- 802.11ax HE160 SU – MCS2x1
- 802.11ax HE20 MU RU26/52/106 – MCS2x1

2x2 MIMO Modes (Core 0+1 for U-NII-5 / 6 / 7 / 8):

- 802.11ax HE20 SU – CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE40 SU – CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE80 SU – CDD (MCS2x1), SDM (MCS2x2) and TxBF (MCS2x1)
- 802.11ax HE160 SU – CDD (MCS2x1) and SDM (MCS2x2)
- 802.11ax HE20 MU RU26/52/106 – CDD (MCS2x1) and SDM (MCS2x2)

*Note: The RU offset for bottom and middle channels were placed in the lowest position and on the top channel, the offset was placed in the upper most position.



1.4.3 Test Setup

For conducted tests the EUT antennas were disconnected and replaced with U.FL to SMA test cables to enable conducted testing on each core. The loss of these test cables were known and compensated for in any conducted measurements.

For all testing except Contention Based Protocol the EUT was put into a continuous transmit test mode with the chipset manufacturer's test commands. The EUT then transmitted the required type of packeted 802.11 data frames of fixed length, containing the standard headers and with pseudo-random data content, ensuring the measured signals were representative and contained all the symbols at the highest power control level.

The test setup used for Contention Based Protocol is described in the test result section of the present document.

1.4.4 Antenna Gain Table

Antenna Port	Frequency Range (MHz)	Peak Gain (dBi)	Conducted Cable Loss (dB)
Core 0	5925-6105	5.6	1.2
	6105-6265	4.45	1.3
	6265-6425	4.6	1.3
	6425-6525	4.49	1.3
	6525-6875	3.87	1.4
	6875-7125	3.64	1.4
Core 1	5925-6105	4.03	1.2
	6105-6265	3.23	1.3
	6265-6425	4.07	1.3
	6425-6525	4.54	1.3
	6525-6875	4.53	1.4
	6875-7125	3.52	1.4

Table 3

1.5 Deviations from the Standard

No deviations from the applicable test standard were made during testing.



1.6 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: A3113, Serial Number: D6HCD7RY3W			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: XXRVY66Q51			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: KVQP772HX1			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: J1HGXV9V04			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: HPHV6327GY			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: QVVKQ44WGR			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3113, Serial Number: FYL0QJ76JQ			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 4



1.7 Test Location

TÜV SÜD conducted the following tests at our Concorde Park Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: 6 GHz WLAN		
Emission Bandwidth	Feda Hussein, Jayvir Makwana and Mustafa Murad	UKAS
Maximum Conducted Output Power	Feda Hussein, Jayvir Makwana and Mustafa Murad	UKAS
Maximum Conducted Power Spectral Density	Feda Hussein, Jayvir Makwana and Mustafa Murad	UKAS
Authorised Band Edges	Colin Brain, Dale Hills, Manohar Thota, Michael Evans, Morsalin Hossain and Nicolae Mihailiuc	UKAS
Spurious Radiated Emissions	Elliot Callender, James Woods and Morsalin Hossain	UKAS
Unwanted Emissions within the 5925-7125 MHz band	David Hill, Feda Hussein and Mustafa Murad	UKAS
Contention Based Protocol	Stefan Gilfedder and Tjijandjeua Tjizumaue	UKAS

Table 5

Office Address:

TÜV SÜD
Concorde Park
Concorde Way
Fareham
Hampshire
PO15 5FG
United Kingdom



2 Test Details

2.1 Emission Bandwidth

2.1.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-248, Clause 4.4
ISED RSS-GEN, Clause 6.7

2.1.2 Equipment Under Test and Modification State

A3113, S/N: HPHV6327GY - Modification State 0
A3113, S/N: FYL0QJ76JQ - Modification State 0
A3113, S/N: J1HGXV9V04 - Modification State 0

2.1.3 Date of Test

13-October-2023 to 20-October-2023

2.1.4 Test Method

The test was performed in accordance with KDB 789033, clause C.1 for 26 dB bandwidth and clause D for 99% occupied bandwidth.

2.1.5 Environmental Conditions

Ambient Temperature	22.4 - 23.6 °C
Relative Humidity	55.5 - 62.6 %

2.1.6 Test Results

6 GHz WLAN

SISO

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI	20.940	21.120
802.11ax HE20 SU LPI	21.180	21.420
802.11ax HE40 SU LPI	41.760	42.120
802.11ax HE80 SU LPI	82.500	82.940
802.11ax HE160 SU LPI	166.320	167.160

Table 6 - 26 dB Bandwidth Summary Results - SISO LPI

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI	16.680	16.680
802.11ax HE20 SU LPI	19.020	19.020
802.11ax HE40 SU LPI	37.920	38.040
802.11ax HE80 SU LPI	77.000	77.440
802.11ax HE160 SU LPI	156.240	156.660

Table 7 - 99% Bandwidth Summary Results - SISO LPI



Figure 1 - 802.11a LPI Minimum 99% OBW



Figure 2 - 802.11a LPI Maximum 99% OBW



Figure 3 - 802.11ax HE20 SU LPI Minimum 99% OBW



Figure 4 - 802.11ax HE20 SU LPI Maximum 99% OBW



Figure 5 - 802.11ax HE40 SU LPI Minimum 99% OBW



Figure 6 - 802.11ax HE40 SU LPI Maximum 99% OBW



Figure 7 - 802.11ax HE80 SU LPI Minimum 99% OBW



Figure 8 - 802.11ax HE80 SU LPI Maximum 99% OBW



Figure 9 - 802.11ax HE160 SU LPI Minimum 99% OBW



Figure 10 - 802.11ax HE160 SU LPI Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.120	-	-	-	-
6175	21.120	-	-	-	-
6415	21.060	-	-	-	-

Table 8 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	16.680	-	-	-	-
6175	16.680	-	-	-	-
6415	16.680	-	-	-	-

Table 9 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.360	-	-	-	-
6175	21.360	-	-	-	-
6415	21.360	-	-	-	-

Table 10 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	-	-	-	-
6175	19.020	-	-	-	-
6415	19.020	-	-	-	-

Table 11 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	41.760	-	-	-	-
6165	41.760	-	-	-	-
6405	42.000	-	-	-	-

Table 12 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	38.040	-	-	-	-
6165	37.920	-	-	-	-
6405	37.920	-	-	-	-

Table 13 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.500	-	-	-	-
6145	82.720	-	-	-	-
6385	82.720	-	-	-	-

Table 14 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.220	-	-	-	-
6145	77.000	-	-	-	-
6385	77.220	-	-	-	-

Table 15 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	166.320	-	-	-	-
6185	167.160	-	-	-	-
6345	166.320	-	-	-	-

Table 16 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.660	-	-	-	-
6185	156.660	-	-	-	-
6345	156.660	-	-	-	-

Table 17 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	-	20.940	-	-	-
6475	-	21.000	-	-	-
6515	-	21.000	-	-	-

Table 18 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	-	16.680	-	-	-
6475	-	16.680	-	-	-
6515	-	16.680	-	-	-

Table 19 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	-	21.360	-	-	-
6475	-	21.240	-	-	-
6515	-	21.180	-	-	-

Table 20 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	-	19.020	-	-	-
6475	-	19.020	-	-	-
6515	-	19.020	-	-	-

Table 21 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	-	42.000	-	-	-
6485	-	42.120	-	-	-
6525	-	21.000	-	-	-

Table 22 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	-	38.040	-	-	-
6485	-	38.040	-	-	-
6525	-	18.960	-	-	-

Table 23 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	-	82.940	-	-	-
6545	-	21.140	-	-	-

Table 24 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	-	77.220	-	-	-
6545	-	18.940	-	-	-

Table 25 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	-	99.800	-	-	-

Table 26 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	-	97.700	-	-	-

Table 27 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	20.940	-	-	-
6695	-	20.940	-	-	-
6855	-	21.000	-	-	-
6875	-	10.440	-	-	-

Table 28 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	16.680	-	-	-
6695	-	16.680	-	-	-
6855	-	16.680	-	-	-
6875	-	8.280	-	-	-

Table 29 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	21.420	-	-	-
6695	-	21.180	-	-	-
6855	-	21.240	-	-	-
6875	-	10.680	-	-	-

Table 30 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	19.020	-	-	-
6695	-	19.020	-	-	-
6855	-	19.020	-	-	-
6875	-	9.480	-	-	-

Table 31 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	-	21.000	-	-	-
6565	-	41.880	-	-	-
6685	-	42.000	-	-	-
6845	-	41.880	-	-	-
6885	-	11.120	-	-	-

Table 32 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	-	19.080	-	-	-
6565	-	38.040	-	-	-
6685	-	38.040	-	-	-
6845	-	37.920	-	-	-
6885	-	9.200	-	-	-

Table 33 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	-	61.360	-	-	-
6625	-	82.720	-	-	-
6705	-	82.720	-	-	-
6785	-	82.720	-	-	-
6865	-	51.580	-	-	-

Table 34 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	-	58.280	-	-	-
6625	-	77.220	-	-	-
6705	-	77.440	-	-	-
6785	-	77.220	-	-	-
6865	-	48.500	-	-	-

Table 35 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	-	63.160	-	-	-
6665	-	167.160	-	-	-
6825	-	133.580	-	-	-

Table 36 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	-	58.540	-	-	-
6665	-	156.240	-	-	-
6825	-	127.700	-	-	-

Table 37 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a LPI	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	-	10.500	-	-	-
6895	21.060	-	-	-	-
6995	21.060	-	-	-	-
7115	21.120	-	-	-	-

Table 38 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	-	8.400	-	-	-
6895	16.680	-	-	-	-
6995	16.680	-	-	-	-
7115	16.680	-	-	-	-

Table 39 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	-	10.620	-	-	-
6895	21.360	-	-	-	-
6995	21.420	-	-	-	-
7115	21.420	-	-	-	-

Table 40 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	-	9.540	-	-	-
6895	19.020	-	-	-	-
6995	19.020	-	-	-	-
7115	19.020	-	-	-	-

Table 41 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	-	31.000	-	-	-
6925	41.760	-	-	-	-
7005	42.000	-	-	-	-
7085	41.760	-	-	-	-

Table 42 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	-	28.840	-	-	-
6925	38.040	-	-	-	-
7005	37.920	-	-	-	-
7085	37.920	-	-	-	-

Table 43 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	-	31.360	-	-	-
6945	82.720	-	-	-	-
7025	82.720	-	-	-	-

Table 44 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	-	28.720	-	-	-
6945	77.440	-	-	-	-
7025	77.220	-	-	-	-

Table 45 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	-	34.000	-	-	-
6985	167.160	-	-	-	-

Table 46 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	-	29.380	-	-	-
6985	156.660	-	-	-	-

Table 47 - 99% Bandwidth Results



Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a	21.060	22.260
802.11ax HE20 SU	21.300	22.020
802.11ax HE40 SU	42.120	43.080
802.11ax HE80 SU	82.720	97.240
802.11ax HE160 SU	166.740	167.580

Table 48 - 26 dB Bandwidth Summary Results - SISO SP

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11a	16.680	16.920
802.11ax HE20 SU	19.020	19.140
802.11ax HE40 SU	38.040	38.160
802.11ax HE80 SU	77.440	77.660
802.11ax HE160 SU	156.240	156.660

Table 49 - 99% Bandwidth Summary Results - SISO SP



Figure 11 - 802.11a Minimum 99% OBW



Figure 12 - 802.11a Maximum 99% OBW



Figure 13 - 802.11ax HE20 SU Minimum 99% OBW



Figure 14 - 802.11ax HE20 SU Maximum 99% OBW



Figure 15 - 802.11ax HE40 SU Minimum 99% OBW

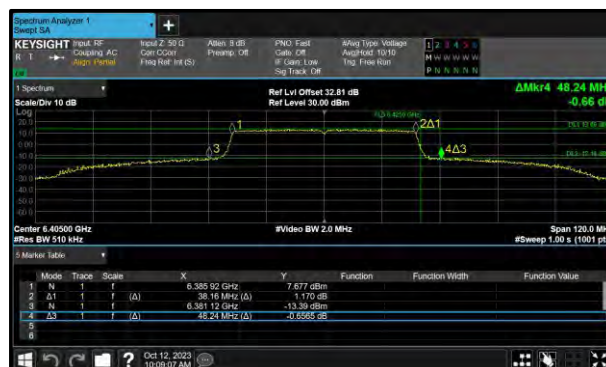


Figure 16 - 802.11ax HE40 SU Maximum 99% OBW



Figure 17 - 802.11ax HE80 SU Minimum 99% OBW



Figure 18 - 802.11ax HE80 SU Maximum 99% OBW



Figure 19 - 802.11ax HE160 SU Minimum 99% OBW



Figure 20 - 802.11ax HE160 SU Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a SP	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.060	-	-	-	-
6175	21.360	-	-	-	-
6415	21.480	-	-	-	-

Table 50 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	16.680	-	-	-	-
6175	16.740	-	-	-	-
6415	16.740	-	-	-	-

Table 51 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.300	-	-	-	-
6175	21.780	-	-	-	-
6415	22.020	-	-	-	-

Table 52 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	-	-	-	-
6175	19.080	-	-	-	-
6415	19.080	-	-	-	-

Table 53 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	42.120	-	-	-	-
6165	42.240	-	-	-	-
6405	48.240	-	-	-	-

Table 54 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	38.040	-	-	-	-
6165	38.040	-	-	-	-
6405	38.160	-	-	-	-

Table 55 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.940	-	-	-	-
6145	83.380	-	-	-	-
6385	84.260	-	-	-	-

Table 56 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.440	-	-	-	-
6145	77.440	-	-	-	-
6385	77.440	-	-	-	-

Table 57 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	167.160	-	-	-	-
6185	167.160	-	-	-	-
6345	167.580	-	-	-	-

Table 58 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.660	-	-	-	-
6185	156.240	-	-	-	-
6345	156.660	-	-	-	-

Table 59 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a SP	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	22.260	-	-	-
6695	-	21.540	-	-	-
6855	-	21.240	-	-	-

Table 60 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	16.920	-	-	-
6695	-	16.800	-	-	-
6855	-	16.740	-	-	-

Table 61 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	21.840	-	-	-
6695	-	21.780	-	-	-
6855	-	21.600	-	-	-

Table 62 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	-	19.140	-	-	-
6695	-	19.140	-	-	-
6855	-	19.020	-	-	-

Table 63 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	-	43.080	-	-	-
6685	-	42.480	-	-	-
6845	-	42.480	-	-	-

Table 64 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	-	38.040	-	-	-
6685	-	38.040	-	-	-
6845	-	38.160	-	-	-

Table 65 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	-	97.240	-	-	-
6705	-	82.720	-	-	-
6785	-	83.160	-	-	-

Table 66 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	-	77.660	-	-	-
6705	-	77.440	-	-	-
6785	-	77.440	-	-	-

Table 67 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	B (Core 1)	Active Chain(s):	1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	-	166.740	-	-	-

Table 68 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	-	156.660	-	-	-

Table 69 - 99% Bandwidth Results



MIMO CDD

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU LPI	21.180	21.480
802.11ax HE40 SU LPI	41.760	42.240
802.11ax HE80 SU LPI	82.280	83.160
802.11ax HE160 SU LPI	165.900	167.160

Table 70 - 26 dB Bandwidth Summary Results - MIMO CDD LPI

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU LPI	19.020	19.020
802.11ax HE40 SU LPI	37.920	38.160
802.11ax HE80 SU LPI	77.000	77.440
802.11ax HE160 SU LPI	156.240	156.660

Table 71 - 99% Bandwidth Summary Results - MIMO CDD LPI



Figure 21 - 802.11ax HE20 SU LPI Minimum 99% OBW



Figure 22 - 802.11ax HE20 SU LPI Maximum 99% OBW



Figure 23 - 802.11ax HE40 SU LPI Minimum 99% OBW



Figure 24 - 802.11ax HE40 SU LPI Maximum 99% OBW



Figure 25 - 802.11ax HE80 SU LPI Minimum 99% OBW



Figure 26 - 802.11ax HE80 SU LPI Maximum 99% OBW

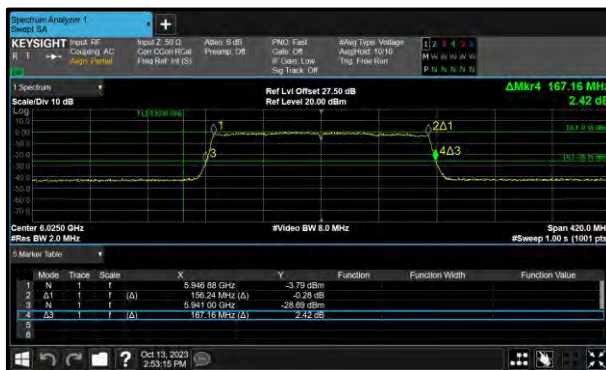


Figure 27 - 802.11ax HE160 SU LPI Minimum 99% OBW



Figure 28 - 802.11ax HE160 SU LPI Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.300	21.240	-	-	-
6175	21.420	21.300	-	-	-
6415	21.240	21.240	-	-	-

Table 72 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	19.020	-	-	-
6175	19.020	19.020	-	-	-
6415	19.020	19.020	-	-	-

Table 73 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	41.880	42.000	-	-	-
6165	41.760	41.880	-	-	-
6405	42.000	42.120	-	-	-

Table 74 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	37.920	37.920	-	-	-
6165	37.920	37.920	-	-	-
6405	37.920	37.920	-	-	-

Table 75 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.940	82.280	-	-	-
6145	82.720	82.720	-	-	-
6385	82.280	82.720	-	-	-

Table 76 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.220	77.220	-	-	-
6145	77.220	77.000	-	-	-
6385	77.220	77.440	-	-	-

Table 77 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	167.160	165.900	-	-	-
6185	166.740	166.320	-	-	-
6345	167.160	166.320	-	-	-

Table 78 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.240	156.240	-	-	-
6185	156.660	156.660	-	-	-
6345	156.660	156.240	-	-	-

Table 79 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	21.360	21.420	-	-	-
6475	21.300	21.300	-	-	-
6515	21.300	21.480	-	-	-

Table 80 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	19.020	19.020	-	-	-
6475	19.020	19.020	-	-	-
6515	19.020	19.020	-	-	-

Table 81 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	42.000	42.000	-	-	-
6485	42.000	41.880	-	-	-
6525	21.120	21.000	-	-	-

Table 82 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	37.920	37.920	-	-	-
6485	37.920	37.920	-	-	-
6525	18.960	19.080	-	-	-

Table 83 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	82.720	83.160	-	-	-
6545	21.360	21.360	-	-	-

Table 84 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	77.000	77.440	-	-	-
6545	18.940	18.940	-	-	-

Table 85 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	99.800	99.800	-	-	-

Table 86 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	97.700	98.120	-	-	-

Table 87 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	21.360	21.360	-	-	-
6695	21.240	21.240	-	-	-
6855	21.300	21.180	-	-	-
6875	10.680	10.620	-	-	-

Table 88 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	19.020	19.020	-	-	-
6695	19.020	19.020	-	-	-
6855	19.020	19.020	-	-	-
6875	9.480	9.480	-	-	-

Table 89 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	21.000	21.000	-	-	-
6565	42.000	42.120	-	-	-
6685	42.000	42.120	-	-	-
6845	42.000	41.880	-	-	-
6885	11.000	11.000	-	-	-

Table 90 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	18.960	18.960	-	-	-
6565	38.040	37.920	-	-	-
6685	37.920	37.920	-	-	-
6845	38.040	37.920	-	-	-
6885	9.320	9.320	-	-	-

Table 91 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	61.360	61.360	-	-	-
6625	82.720	82.720	-	-	-
6705	82.720	82.500	-	-	-
6785	82.720	82.720	-	-	-
6865	51.360	51.360	-	-	-

Table 92 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	58.280	58.280	-	-	-
6625	77.000	77.000	-	-	-
6705	77.220	77.220	-	-	-
6785	77.440	77.440	-	-	-
6865	48.500	48.500	-	-	-

Table 93 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	63.160	63.580	-	-	-
6665	167.160	165.900	-	-	-
6825	133.580	133.580	-	-	-

Table 94 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	58.540	58.540	-	-	-
6665	156.240	156.240	-	-	-
6825	127.700	127.700	-	-	-

Table 95 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	10.620	10.680	-	-	-
6895	21.480	21.480	-	-	-
6995	21.300	21.300	-	-	-
7115	21.240	21.360	-	-	-

Table 96 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	9.540	9.540	-	-	-
6895	19.020	19.020	-	-	-
6995	19.020	19.020	-	-	-
7115	19.020	19.020	-	-	-

Table 97 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	31.120	31.000	-	-	-
6925	42.120	42.240	-	-	-
7005	41.880	42.120	-	-	-
7085	42.000	42.120	-	-	-

Table 98 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	28.840	28.840	-	-	-
6925	37.920	38.040	-	-	-
7005	38.040	38.160	-	-	-
7085	38.040	38.040	-	-	-

Table 99 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	31.360	31.580	-	-	-
6945	82.720	82.940	-	-	-
7025	82.500	82.720	-	-	-

Table 100 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	28.720	28.720	-	-	-
6945	77.000	77.000	-	-	-
7025	77.220	77.440	-	-	-

Table 101 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	33.160	33.580	-	-	-
6985	166.740	167.160	-	-	-

Table 102 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	29.380	29.380	-	-	-
6985	156.660	156.660	-	-	-

Table 103 - 99% Bandwidth Results



Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	21.240	21.360
802.11ax HE40 SU	41.760	42.120
802.11ax HE80 SU	82.500	84.040
802.11ax HE160 SU	166.320	167.580

Table 104 - 26 dB Bandwidth Summary Results - MIMO CDD SP

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	19.020	19.080
802.11ax HE40 SU	37.920	38.040
802.11ax HE80 SU	77.220	77.440
802.11ax HE160 SU	156.240	156.660

Table 105 - 99% Bandwidth Summary Results - MIMO CDD SP



Figure 29 - 802.11ax HE20 SU Minimum 99% OBW



Figure 30 - 802.11ax HE20 SU Maximum 99% OBW



Figure 31 - 802.11ax HE40 SU Minimum 99% OBW



Figure 32 - 802.11ax HE40 SU Maximum 99% OBW



Figure 33 - 802.11ax HE80 SU Minimum 99% OBW



Figure 34 - 802.11ax HE80 SU Maximum 99% OBW

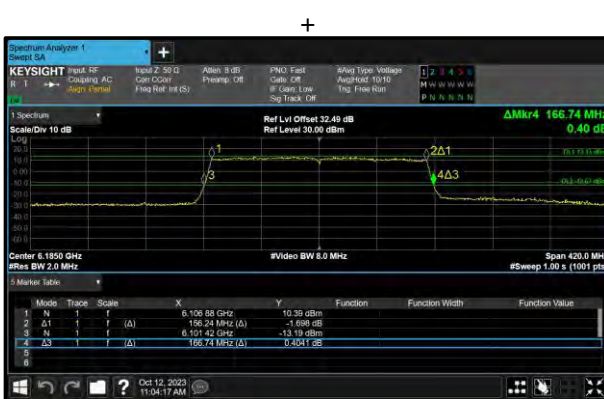


Figure 35 - 802.11ax HE160 SU Minimum 99% OBW



Figure 36 - 802.11ax HE160 SU Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.360	21.300	-	-	-
6175	21.360	21.300	-	-	-
6415	21.360	21.240	-	-	-

Table 106 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	19.080	-	-	-
6175	19.020	19.020	-	-	-
6415	19.020	19.020	-	-	-

Table 107 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	41.760	41.880	-	-	-
6165	42.000	42.000	-	-	-
6405	42.000	42.120	-	-	-

Table 108 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	38.040	37.920	-	-	-
6165	38.040	37.920	-	-	-
6405	37.920	37.920	-	-	-

Table 109 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.940	82.500	-	-	-
6145	83.160	84.040	-	-	-
6385	82.940	83.600	-	-	-

Table 110 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.220	77.220	-	-	-
6145	77.440	77.440	-	-	-
6385	77.440	77.440	-	-	-

Table 111 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	167.580	166.740	-	-	-
6185	166.740	166.320	-	-	-
6345	167.160	166.740	-	-	-

Table 112 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.660	156.660	-	-	-
6185	156.240	156.240	-	-	-
6345	156.660	156.660	-	-	-

Table 113 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	21.240	21.360	-	-	-
6695	21.240	21.300	-	-	-
6855	21.240	21.360	-	-	-

Table 114 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	19.020	19.020	-	-	-
6695	19.020	19.020	-	-	-
6855	19.020	19.020	-	-	-

Table 115 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	42.000	41.880	-	-	-
6685	41.880	42.120	-	-	-
6845	42.120	41.880	-	-	-

Table 116 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	37.920	37.920	-	-	-
6685	37.920	38.040	-	-	-
6845	37.920	37.920	-	-	-

Table 117 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	83.160	84.040	-	-	-
6705	83.160	83.600	-	-	-
6785	83.600	82.940	-	-	-

Table 118 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	77.440	77.440	-	-	-
6705	77.440	77.440	-	-	-
6785	77.440	77.440	-	-	-

Table 119 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	166.740	166.320	-	-	-

Table 120 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	156.240	156.240	-	-	-

Table 121 - 99% Bandwidth Results

MIMO SDM

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU LPI	21.180	21.540
802.11ax HE40 SU LPI	41.760	42.120
802.11ax HE80 SU LPI	82.280	82.940
802.11ax HE160 SU LPI	165.900	166.740

Table 122 - 26 dB Bandwidth Summary Results - MIMO SDM LPI

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU LPI	19.020	19.080
802.11ax HE40 SU LPI	37.920	38.040
802.11ax HE80 SU LPI	77.000	77.440
802.11ax HE160 SU LPI	155.820	156.660

Table 123 - 99% Bandwidth Summary Results - MIMO SDM



Figure 37 - 802.11ax HE20 SU LPI Minimum 99% OBW



Figure 38 - 802.11ax HE20 SU LPI Maximum 99% OBW



Figure 39 - 802.11ax HE40 SU LPI Minimum 99% OBW



Figure 40 - 802.11ax HE40 SU LPI Maximum 99% OBW



Figure 41 - 802.11ax HE80 SU LPI Minimum 99% OBW



Figure 42 - 802.11ax HE80 SU LPI Maximum 99% OBW



Figure 43 - 802.11ax HE160 SU LPI Minimum 99% OBW



Figure 44 - 802.11ax HE160 SU LPI Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.300	21.300	-	-	-
6175	21.360	21.480	-	-	-
6415	21.360	21.180	-	-	-

Table 124 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	19.020	-	-	-
6175	19.020	19.020	-	-	-
6415	19.080	19.020	-	-	-

Table 125 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	41.880	42.120	-	-	-
6165	42.000	41.760	-	-	-
6405	42.000	41.880	-	-	-

Table 126 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	37.920	37.920	-	-	-
6165	37.920	38.040	-	-	-
6405	37.920	38.040	-	-	-

Table 127 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.720	82.720	-	-	-
6145	82.720	82.720	-	-	-
6385	82.720	82.940	-	-	-

Table 128 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.440	77.220	-	-	-
6145	77.000	77.220	-	-	-
6385	77.220	77.220	-	-	-

Table 129 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	166.740	165.900	-	-	-
6185	166.320	166.320	-	-	-
6345	166.740	166.740	-	-	-

Table 130 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.240	156.240	-	-	-
6185	156.240	156.660	-	-	-
6345	155.820	156.240	-	-	-

Table 131 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	21.480	21.180	-	-	-
6475	21.360	21.240	-	-	-
6515	21.420	21.360	-	-	-

Table 132 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6435	19.020	19.020	-	-	-
6475	19.080	19.020	-	-	-
6515	19.020	19.020	-	-	-

Table 133 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	41.760	41.760	-	-	-
6485	42.000	42.120	-	-	-
6525	21.000	21.000	-	-	-

Table 134 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6445	37.920	38.040	-	-	-
6485	37.920	37.920	-	-	-
6525	18.960	18.960	-	-	-

Table 135 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	82.720	82.720	-	-	-
6545	21.140	21.140	-	-	-

Table 136 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6465	77.220	77.220	-	-	-
6545	18.940	18.940	-	-	-

Table 137 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	99.800	99.800	-	-	-

Table 138 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	97.700	98.120	-	-	-

Table 139 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	21.240	21.240	-	-	-
6695	21.240	21.360	-	-	-
6855	21.300	21.360	-	-	-
6875	10.740	10.740	-	-	-

Table 140 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	19.080	19.080	-	-	-
6695	19.020	19.020	-	-	-
6855	19.020	19.080	-	-	-
6875	9.480	9.480	-	-	-

Table 141 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	21.120	20.880	-	-	-
6565	42.000	42.120	-	-	-
6685	41.880	42.120	-	-	-
6845	42.000	41.880	-	-	-
6885	10.880	10.760	-	-	-

Table 142 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6525	18.960	18.960	-	-	-
6565	37.920	37.920	-	-	-
6685	37.920	38.040	-	-	-
6845	37.920	38.040	-	-	-
6885	9.200	9.320	-	-	-

Table 143 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	61.140	61.360	-	-	-
6625	82.280	82.940	-	-	-
6705	82.500	82.940	-	-	-
6785	82.720	82.940	-	-	-
6865	51.580	51.360	-	-	-

Table 144 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	58.280	58.280	-	-	-
6625	77.440	77.220	-	-	-
6705	77.220	77.220	-	-	-
6785	77.220	77.220	-	-	-
6865	48.500	48.500	-	-	-

Table 145 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	63.160	63.160	-	-	-
6665	166.740	166.740	-	-	-
6825	132.740	133.580	-	-	-

Table 146 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6505	58.540	58.540	-	-	-
6665	156.240	156.240	-	-	-
6825	127.700	127.700	-	-	-

Table 147 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	10.680	10.680	-	-	-
6895	21.300	21.540	-	-	-
6995	21.420	21.360	-	-	-
7095	21.420	21.180	-	-	-

Table 148 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6875	9.540	9.540	-	-	-
6895	19.020	19.020	-	-	-
6995	19.020	19.020	-	-	-
7095	19.020	19.020	-	-	-

Table 149 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	30.880	31.000	-	-	-
6925	41.880	42.000	-	-	-
7005	41.760	42.120	-	-	-
7085	42.000	42.120	-	-	-

Table 150 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6885	28.840	28.840	-	-	-
6925	37.920	37.920	-	-	-
7005	37.920	38.040	-	-	-
7085	37.920	38.040	-	-	-

Table 151 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	31.360	31.580	-	-	-
6945	82.500	82.500	-	-	-
7025	82.500	82.500	-	-	-

Table 152 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	28.720	28.720	-	-	-
6945	77.440	77.220	-	-	-
7025	77.220	77.220	-	-	-

Table 153 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	33.160	33.580	-	-	-
6985	166.320	166.320	-	-	-

Table 154 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6825	28.960	29.380	-	-	-
6985	156.660	156.240	-	-	-

Table 155 - 99% Bandwidth Results



Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	21.240	21.540
802.11ax HE40 SU	41.760	46.200
802.11ax HE80 SU	82.500	125.760
802.11ax HE160 SU	165.900	167.160

Table 156 - 26 dB Bandwidth Summary Results - MIMO SDM SP

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	19.020	19.080
802.11ax HE40 SU	37.920	38.280
802.11ax HE80 SU	77.220	77.760
802.11ax HE160 SU	156.240	156.660

Table 157 - 99% Bandwidth Summary Results - MIMO SDM SP



Figure 45 - 802.11ax HE20 SU Minimum 99% OBW



Figure 46 - 802.11ax HE20 SU Maximum 99% OBW



Figure 47 - 802.11ax HE40 SU Minimum 99% OBW



Figure 48 - 802.11ax HE40 SU Maximum 99% OBW



Figure 49 - 802.11ax HE80 SU Minimum 99% OBW



Figure 50 - 802.11ax HE80 SU Maximum 99% OBW



Figure 51 - 802.11ax HE160 SU Minimum 99% OBW



Figure 52 - 802.11ax HE160 SU Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.240	21.360	-	-	-
6175	21.240	21.420	-	-	-
6415	21.240	21.480	-	-	-

Table 158 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	19.020	-	-	-
6175	19.020	19.020	-	-	-
6415	19.080	19.020	-	-	-

Table 159 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	42.120	41.760	-	-	-
6165	42.240	42.120	-	-	-
6405	42.480	42.360	-	-	-

Table 160 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	37.920	37.920	-	-	-
6165	38.040	38.160	-	-	-
6405	38.160	38.280	-	-	-

Table 161 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.500	82.940	-	-	-
6145	82.940	92.400	-	-	-
6385	111.320	125.760	-	-	-

Table 162 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.220	77.220	-	-	-
6145	77.440	77.440	-	-	-
6385	77.660	77.760	-	-	-

Table 163 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	167.160	166.740	-	-	-
6185	166.740	166.740	-	-	-
6345	166.740	166.320	-	-	-

Table 164 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6025	156.240	156.660	-	-	-
6185	156.240	156.660	-	-	-
6345	156.240	156.660	-	-	-

Table 165 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	21.540	21.300	-	-	-
6695	21.360	21.240	-	-	-
6855	21.300	21.240	-	-	-

Table 166 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	19.020	19.020	-	-	-
6695	19.080	19.020	-	-	-
6855	19.020	19.080	-	-	-

Table 167 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	43.800	46.200	-	-	-
6685	44.040	42.240	-	-	-
6845	42.360	42.240	-	-	-

Table 168 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	38.160	38.160	-	-	-
6685	38.160	38.280	-	-	-
6845	38.160	38.160	-	-	-

Table 169 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	83.380	83.380	-	-	-
6705	83.380	93.280	-	-	-
6785	82.940	84.700	-	-	-

Table 170 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	77.440	77.440	-	-	-
6705	77.440	77.440	-	-	-
6785	77.440	77.440	-	-	-

Table 171 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	166.740	165.900	-	-	-

Table 172 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6665	156.660	156.660	-	-	-

Table 173 - 99% Bandwidth Results



TxBF

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE40 SU	41.880	42.240
802.11ax HE80 SU	82.500	82.940

Table 174 - 26 dB Bandwidth Summary Results - TxBF

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE40 SU	37.920	38.160
802.11ax HE80 SU	77.220	77.440

Table 175 - 99% Bandwidth Summary Results - TxBF



Figure 53 - 802.11ax HE40 SU Minimum 99% OBW

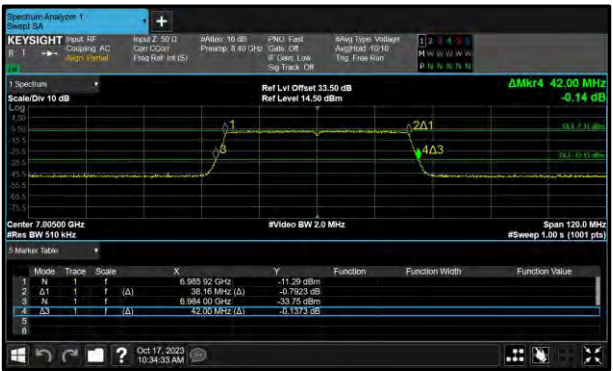


Figure 54 - 802.11ax HE40 SU Maximum 99% OBW



Figure 55 - 802.11ax HE80 SU Minimum 99% OBW



Figure 56 - 802.11ax HE80 SU Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6125	42.240	42.000	-	-	-
6165	42.120	42.000	-	-	-
6245	42.000	42.000	-	-	-

Table 176 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6125	38.040	38.040	-	-	-
6165	38.040	38.040	-	-	-
6245	37.920	37.920	-	-	-

Table 177 - 99% Bandwidth Results



Figure 57 - Core 0 (A) 6125 MHz (CH35) 26 dB and 99% Bandwidth

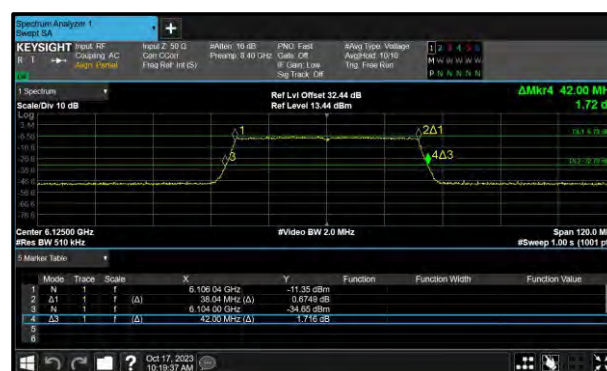


Figure 58 - Core 1 (B) 6125 MHz (CH35) 26 dB and 99% Bandwidth



Figure 59 - Core 0 (A) 6165 MHz (CH43) 26 dB and 99% Bandwidth



Figure 60 - Core 1 (B) 6165 MHz (CH43) 26 dB and 99% Bandwidth



Figure 61 - Core 0 (A) 6245 MHz (CH59) 26 dB and 99% Bandwidth



Figure 62 - Core 1 (B) 6245 MHz (CH59) 26 dB and 99% Bandwidth

Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.720	82.720	-	-	-
6145	82.500	82.720	-	-	-
6385	82.720	82.940	-	-	-

Table 178 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.220	77.220	-	-	-
6145	77.440	77.220	-	-	-
6385	77.220	77.220	-	-	-

Table 179 - 99% Bandwidth Results

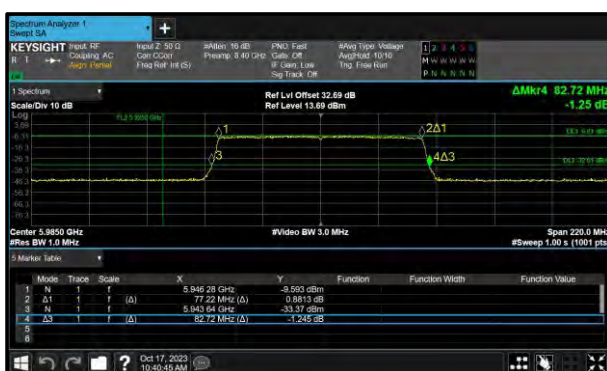


Figure 63 - Core 0 (A) 5985 MHz (CH7) 26 dB and 99% Bandwidth



Figure 64 - Core 1 (B) 5985 MHz (CH7) 26 dB and 99% Bandwidth



Figure 65 - Core 0 (A) 6145 MHz (CH39) 26 dB and 99% Bandwidth



Figure 66 - Core 1 (B) 6145 MHz (CH39) 26 dB and 99% Bandwidth

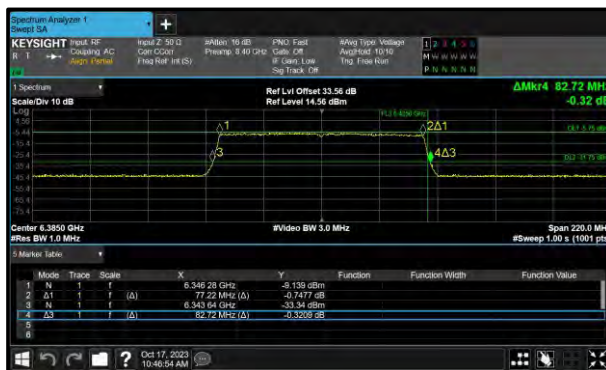


Figure 67 - Core 0 (A) 6385 MHz (CH87) 26 dB and 99% Bandwidth



Figure 68 - Core 1 (B) 6385 MHz (CH87) 26 dB and 99% Bandwidth



Figure 71 - Core 0 (A) 6545 MHz (CH119) 26 dB and 99% Bandwidth



Figure 72 - Core 1 (B) 6545 MHz (CH119) 26 dB and 99% Bandwidth



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	61.360	61.360	-	-	-
6625	82.720	82.720	-	-	-
6705	82.720	82.720	-	-	-
6785	82.940	82.940	-	-	-
6865	51.360	51.360	-	-	-

Table 182 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6545	58.280	58.280	-	-	-
6625	77.440	77.440	-	-	-
6705	77.440	77.220	-	-	-
6785	77.440	77.440	-	-	-
6865	48.500	48.500	-	-	-

Table 183 - 99% Bandwidth Results



Figure 73 - Core 0 (A) 6545 MHz (CH119) 26 dB and 99% Bandwidth

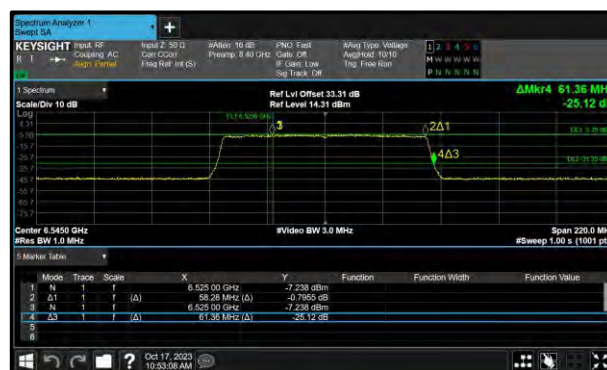


Figure 74 - Core 1 (B) 6545 MHz (CH119) 26 dB and 99% Bandwidth



Figure 75 - Core 0 (A) 6625 MHz (CH135) 26 dB and 99% Bandwidth

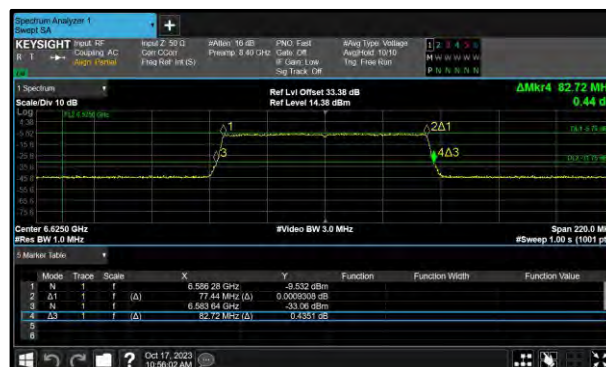


Figure 76 - Core 1 (B) 6625 MHz (CH135) 26 dB and 99% Bandwidth

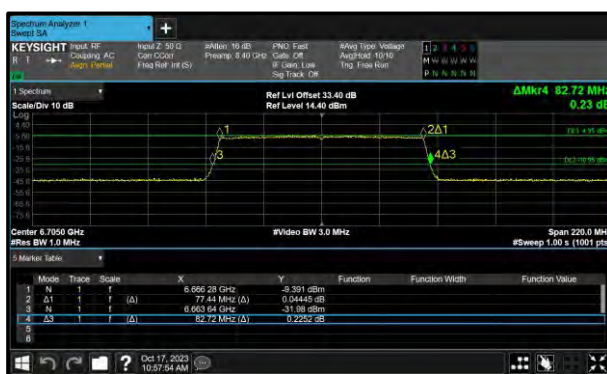


Figure 77 - Core 0 (A) 6705 MHz (CH151) 26 dB and 99% Bandwidth

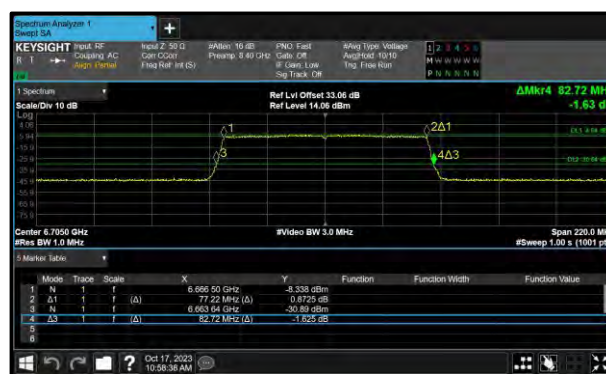


Figure 78 - Core 1 (B) 6705 MHz (CH151) 26 dB and 99% Bandwidth



Figure 79 - Core 0 (A) 6785 MHz (CH167) 26 dB and 99% Bandwidth

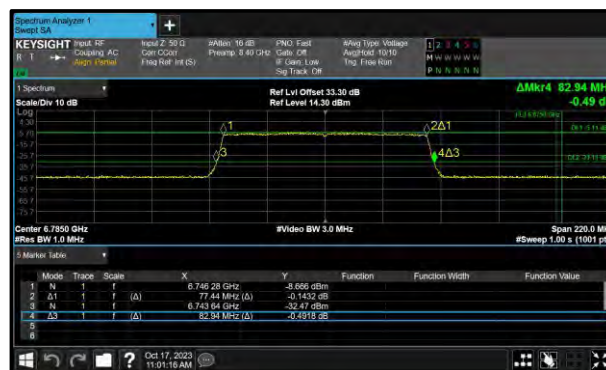


Figure 80 - Core 1 (B) 6785 MHz (CH167) 26 dB and 99% Bandwidth

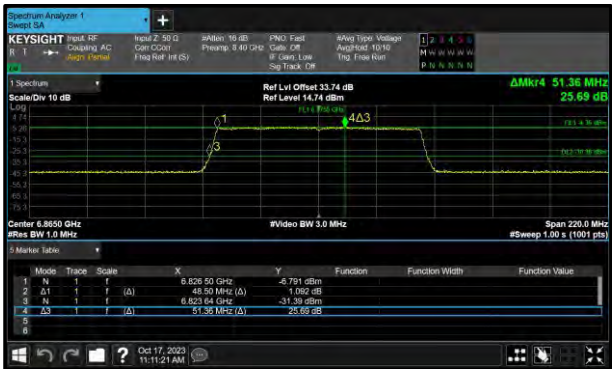


Figure 81 - Core 0 (A) 6865 MHz (CH183) 26 dB and 99% Bandwidth



Figure 82 - Core 1 (B) 6865 MHz (CH183) 26 dB and 99% Bandwidth



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6925	41.880	42.000	-	-	-
7005	42.000	42.000	-	-	-
7085	42.000	42.000	-	-	-

Table 184 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6925	37.920	37.920	-	-	-
7005	38.040	38.160	-	-	-
7085	38.040	38.160	-	-	-

Table 185 - 99% Bandwidth Results



Figure 83 - Core 0 (A) 6925 MHz (CH195) 26 dB and 99% Bandwidth



Figure 84 - Core 1 (B) 6925 MHz (CH195) 26 dB and 99% Bandwidth



Figure 85 - Core 0 (A) 7005 MHz (CH211) 26 dB and 99% Bandwidth



Figure 86 - Core 1 (B) 7005 MHz (CH211) 26 dB and 99% Bandwidth



Figure 87 - Core 0 (A) 7085 MHz (CH227) 26 dB and 99% Bandwidth



Figure 88 - Core 1 (B) 7085 MHz (CH227) 26 dB and 99% Bandwidth



Test Configuration			
Frequency Range:	6.875-7.125 GHz	Band:	U-NII-8
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU LPI	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	31.140	31.360	-	-	-
6945	82.720	82.720	-	-	-
7025	82.500	82.940	-	-	-

Table 186 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6865	28.720	28.940	-	-	-
6945	77.220	77.220	-	-	-
7025	77.440	77.440	-	-	-

Table 187 - 99% Bandwidth Results



Figure 89 - Core 0 (A) 6865 MHz (CH183) 26 dB and 99% Bandwidth

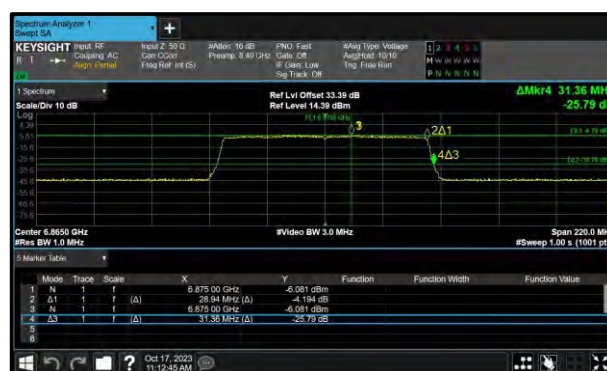


Figure 90 - Core 1 (B) 6865 MHz (CH183) 26 dB and 99% Bandwidth

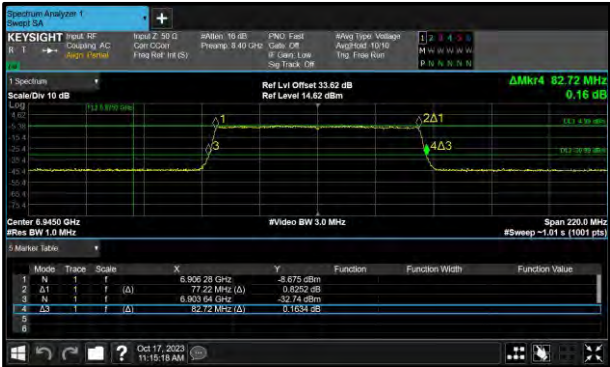


Figure 91 - Core 0 (A) 6945 MHz (CH199) 26 dB and 99% Bandwidth

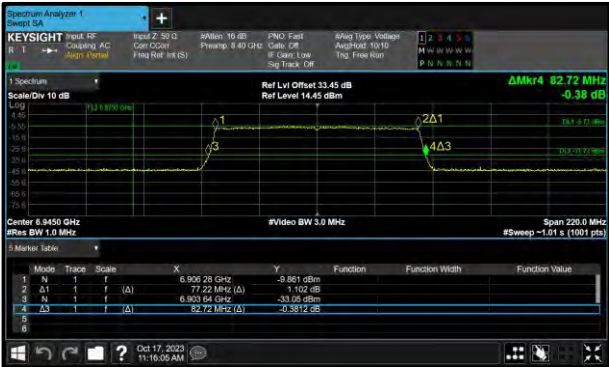


Figure 92 - Core 1 (B) 6945 MHz (CH199) 26 dB and 99% Bandwidth



Figure 93 - Core 0 (A) 7025 MHz (CH215) 26 dB and 99% Bandwidth



Figure 94 - Core 1 (B) 7025 MHz (CH215) 26 dB and 99% Bandwidth



Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	21.180	21.480
802.11ax HE40 SU	41.880	45.480
802.11ax HE80 SU	82.500	84.040

Table 188 - 26 dB Bandwidth Summary Results - TxBF

Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11ax HE20 SU	18.960	19.080
802.11ax HE40 SU	38.040	38.160
802.11ax HE80 SU	77.440	77.880

Table 189 - 99% Bandwidth Summary Results - TxBF



Figure 95 - 802.11ax HE20 SU Minimum 99% OBW



Figure 96 - 802.11ax HE20 SU Maximum 99% OBW



Figure 97 - 802.11ax HE40 SU Minimum 99% OBW



Figure 98 - 802.11ax HE40 SU Maximum 99% OBW

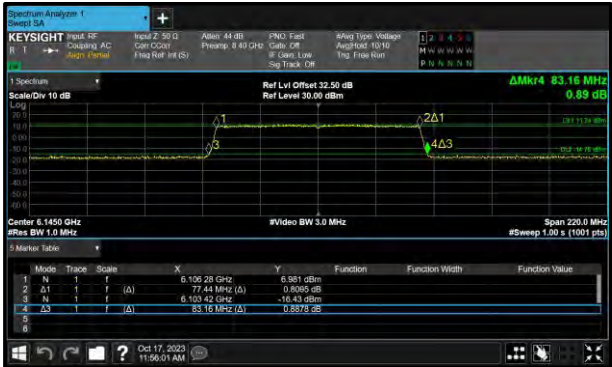


Figure 99 - 802.11ax HE80 SU Minimum 99% OBW



Figure 100 - 802.11ax HE80 SU Maximum 99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	21.240	21.240	-	-	-
6175	21.360	21.360	-	-	-
6415	21.240	21.300	-	-	-

Table 190 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5955	19.020	19.080	-	-	-
6175	19.020	19.020	-	-	-
6415	19.020	19.080	-	-	-

Table 191 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	42.120	42.240	-	-	-
6165	44.400	41.880	-	-	-
6405	45.480	42.360	-	-	-

Table 192 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5965	38.160	38.160	-	-	-
6165	38.160	38.160	-	-	-
6405	38.160	38.160	-	-	-

Table 193 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz	Band:	U-NII-5
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	82.720	83.380	-	-	-
6145	83.820	83.160	-	-	-
6385	83.380	83.160	-	-	-

Table 194 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5985	77.880	77.880	-	-	-
6145	77.660	77.440	-	-	-
6385	77.440	77.660	-	-	-

Table 195 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	21.480	21.360	-	-	-
6695	21.360	21.420	-	-	-
6855	21.180	21.300	-	-	-

Table 196 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6535	18.960	19.080	-	-	-
6695	19.020	19.080	-	-	-
6855	19.080	19.020	-	-	-

Table 197 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	43.920	45.240	-	-	-
6685	42.240	44.880	-	-	-
6845	42.240	42.240	-	-	-

Table 198 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6565	38.160	38.160	-	-	-
6685	38.040	38.160	-	-	-
6845	38.160	38.160	-	-	-

Table 199 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.525-6.875 GHz	Band:	U-NII-7
Limit Clause(s):	-	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU SP	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	83.600	84.040	-	-	-
6705	82.720	83.820	-	-	-
6785	82.500	82.940	-	-	-

Table 200 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
6625	77.660	77.880	-	-	-
6705	77.440	77.440	-	-	-
6785	77.660	77.660	-	-	-

Table 201 - 99% Bandwidth Results

FCC Part 15E, Limit Clause 15.407 (a)(10)

The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320 megahertz.

ISED RSS-248, Limit Clause 4.4

The occupied bandwidth shall not exceed 320 MHz.



2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	06-Mar-2024
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4055	-	O/P Mon
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	06-Mar-2024
Power splitter - 2 port	Mini-Circuits	ZN2PD-63-S+	4743	12	30-Nov-2023
Cable (18 GHz)	Rosenberger	LU7-071-1000	5100	12	24-Oct-2024
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
Attenuator 5W 30dB DC-18GHz	Aaren	AT40A-4041-D18-30	5505	12	21-Feb-2024
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5765	-	O/P Mon
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5766	-	O/P Mon
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/B	6019	12	05-Jun-2024
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6176	12	19-Jul-2024
Humidity and Temperature Meter	R.S Components	1364	6346	12	28-Feb-2024
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	26-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	09-Apr-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	26-May-2024
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	09-Aug-2024
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	26-May-2024
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 202

O/P Mon - Output Monitored using calibrated equipment



2.2 Maximum Conducted Output Power

2.2.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-248, Clause 4.5
ISED RSS-GEN, Clause 6.12

2.2.2 Equipment Under Test and Modification State

A3113, S/N: FYL0QJ76JQ - Modification State 0
A3113, S/N: J1HGXV9V04 - Modification State 0
A3113, S/N: HPHV6327GY - Modification State 0

2.2.3 Date of Test

11-October-2023 to 20-October-2023

2.2.4 Test Method

This test was performed in accordance with KDB 789033 clause E.3b (gated RF average power meter), except straddle channels which were performed in accordance with KDB 789033 clause E.2d (SA-2).

MIMO output port summing was performed in accordance with KDB 662911 D01.

The EUT has equal conducted powers on all ports for each mode of operation, but unequal antenna gains. Therefore, for SISO modes the EUT was tested on the port with the highest antenna gain which would result in the highest EIRP output power.

For the CDD results the directional gain was calculated in accordance with clause F)2)f)(ii) using the calculations from F)2)f)(i) with worst-case individual gain and an array gain of zero.

For SDM modes Directional Gain was calculated in accordance with clause F)2)d)(ii).

For transmit beamforming (TxBF) mode it was calculated in accordance with clause F)2)d)(i).

2.2.5 Environmental Conditions

Ambient Temperature	21.6 - 23.2 °C
Relative Humidity	45.2 - 58.0 %