

FCC and ISED Test Report

Apple Inc
Model: A3239

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
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California
95014
USA



TUV SUD Limited
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Date: 2024.11.06 15:04:53 Z

FCC ID: BCGA3239 IC: 579C-A3239

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Document 75961400-73 Issue 03

SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
James O'Reilly	RF Engineer	Authorised Signatory	06 November 2024

Signatures in this approval box have checked this document in line with the requirements of TUV SUD 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	06 November 2024	

FCC Accreditation 553713/UK2026 Concorde Park, Fareham Test Laboratory
ISED Accreditation 28798/UK0003 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: 2023, 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	14-October-2024
2	Addition of 26 dB plots and limit to section 2.1.6	28-October-2024
3	Updated sections 1.2, 2.1 and 2.8 for OBW/IBE test results (160 MHz) and update of OBW 26 dB plots in section 2.1.6	06-November-2024

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
EUT/Sample Identification	Refer to section 1.6
Test Specification/Issue/Date	FCC 47 CFR Part 15E: 2023 ISED RSS-248: Issue 2 (2022-12) ISED RSS-GEN: Issue 5 (2018-04) + A2 (2021-02)
Start of Test	31-July-2024
Finish of Test	31-October-2024
Name of Engineer(s)	Feda Hussein, Mahmud Bari Chowdhury, Stefan Gilfedder, Akhil Rajendran Bhaskaran Nair, Colin Brain, Elliot Callender, James Woods, Manohar Thota, Morsalin Hossain, Thomas Randall, Tony Baby, Vineeth Nagaraj, Ahmed Al Derdiri and Ioan-Alexandru Bogatu
Related Document(s)	ANSI C63.10 (2020) KDB 662911 D01 v02r01 KDB 789033 D02 v02r01 KDB 987594 D02 v02r01 KDB 987594 DR03-45383



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15E, ISED RSS-248 and ISED 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	Dual Client Test	Pass	KDB 987594 D02 v02r01
2.3	15.407 (d)(10)	-	-	Transmit Power Control	Pass	KDB 987594 DR03-45383
2.4	15.407 (a)	4.5	6.12	Maximum Conducted Output Power	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.5	15.407 (a)	4.5	-	Maximum Conducted Power Spectral Density	Pass	KDB 662911 D01 v02r01 KDB 789033 D02 v02r01
2.6	15.407 (b)	4.6	6.13	Authorised Band Edges	Pass	ANSI C63.10 (2020) KDB 789033 D02 v02r01
2.7	15.209 and 15.407 (b)	4.6	6.13 and 8.9	Spurious Radiated Emissions	Pass	ANSI C63.10 (2020) KDB 789033 D02 v02r01
2.8	15.407 (b)	4.6	6.13	Unwanted Emissions within the 5925-7125 MHz band	Pass	KDB 987594 D02 v02
2.9	15.407 (d)(6)	4.7	-	Contention Based Protocol	Pass	KDB 987594 D02 v02

Table 2



1.4 Product Information

1.4.1 Technical Description

The equipment under test (EUT) was a desktop 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 as 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 can also operate as a Very Low Power (6VL) device.

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 (5925-6105 MHz - Core 1 / 6105-7125 MHz - Core 0):

- 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 to 6105	3.5	1.54
	6105 to 6265	2.9	1.56
	6265 to 6425	1.0	1.61
	6425 to 6525	0.9	1.63
	6525 to 6875	1.0	1.63
	6875 to 7125	1.6	1.74
Core 1	5925 to 6105	3.6	1.54
	6105 to 6265	2.9	1.56
	6265 to 6425	0.6	1.61
	6425 to 6525	0.4	1.63
	6525 to 6875	0.9	1.63
	6875 to 7125	0.4	1.74

Table 3

1.5 Deviations from the Standard

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



1.6 Identification of the EUT

The table below details identification of the EUT(s) that have been used to carry out the testing within this report.

Model: A3239			
Serial Number	Hardware Version	Software Version	Firmware
N7C7VWDN4T	REV1.0	24A42521k	23.30.16
Q3K4WQYMQP	REV1.0	24E100	23.10.889.3
F62VWWG2NJ	REV1.0	24A41870n	23.10.819.0.41.51.140
D4D3YLHFTQ	REV1.0	24A42521k	23.30.16
JL2G9T9QK5	REV1.0	24A42521k	23.30.16
FH9KV30V6N	REV1.0	24A42521k	23.30.16
VGYNW5CQGJ	REV1.0	24A42521k	23.30.16
W46MCWV5JP	REV1.0	24A42521k	23.30.16
N20P49FFV9	REV1.0	24A42521k	23.30.16
FJWL4JMFXY	REV1.0	24A42521k	23.30.16
V70G6T7027	REV1.0	24A42521k	23.30.16
DLX7VG477R	REV1.0	24A42521d	23.30.16
D21W5XX7VQ	REV1.0	24B2051	23.10.900.4.41.51.165
F94MVK9JK6	REV1.0	24A291	23.10.864.0.41.51.156

Table 4



1.7 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: A3239, Serial Number: N20P49FFV9			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: FJWL4JMFXY			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: V70G6T7027			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: FH9KV30V6N			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: VGYNW5CQGJ			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: W46MCWV5JP			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: JL2G9T9QK5			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: N7C7VWDN4T			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: D4D3YLHFTQ			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: Q3K4WQYMQP			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: DLX7VG477R			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: D21W5XX7VQ			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: F62VWWG2NJ			
0	As supplied by the customer	Not Applicable	Not Applicable
Model: A3239, Serial Number: F94MVK9JK6			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 5



1.8 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 and Mahmud Bari Chowdhury	UKAS
Dual Client Test	Stefan Gilfedder	UKAS
Transmit Power Control	Stefan Gilfedder	UKAS
Maximum Conducted Output Power	Feda Hussein and Mahmud Bari Chowdhury	UKAS
Maximum Conducted Power Spectral Density	Feda Hussein and Mahmud Bari Chowdhury	UKAS
Authorised Band Edges	Akhil Rajendran Bhaskaran Nair, Colin Brain, Elliot Callender, James Woods, Manohar Thota, Morsalin Hossain, Thomas Randall, Tony Baby and Vineeth Nagaraj	UKAS
Spurious Radiated Emissions	Ahmed Al Derdiri, Elliot Callender, Ioan-Alexandru Bogatu and Manohar Thota	UKAS
Unwanted Emissions within the 5925-7125 MHz band	Feda Hussein and Mahmud Bari Chowdhury	UKAS
Contention Based Protocol	Stefan Gilfedder	UKAS

Table 6

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

A3239, S/N: DLX7VG477R - Modification State 0
A3239, S/N: D21W5XX7VQ - Modification State 0

2.1.3 Date of Test

16-September-2024 to 31-October-2024

2.1.4 Test Method

The test was performed in accordance with KDB 789033 D02, clause II.C.1 for 26 dB bandwidth and clause II D for 99% occupied bandwidth.

2.1.5 Environmental Condition

Ambient Temperature	20.7 - 22.5 °C
Relative Humidity	52.4 - 59.8 %

2.1.6 Test Results

6 GHz WLAN

SISO

Protocol	26 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI	21.060	21.120
802.11ax HE20 SU LPI	21.180	21.420
802.11ax HE40 SU LPI	41.880	42.120
802.11ax HE80 SU LPI	82.500	82.720
802.11ax HE160 SU LPI	167.160	167.580
802.11a SP	21.480	32.480
802.11ax HE20 SU SP	21.240	21.540
802.11ax HE40 SU SP	42.120	42.600
802.11ax HE80 SU SP	82.940	90.640
802.11ax HE160 SU SP	166.740	168.000
802.11a VLP	21.120	21.180
802.11ax HE20 SU VLP	21.300	21.420
802.11ax HE40 SU VLP	41.880	42.000
802.11ax HE80 SU VLP	82.500	82.720
802.11ax HE160 SU VLP	166.740	167.580

Table 7 - 26 dB Bandwidth Summary Results - SISO

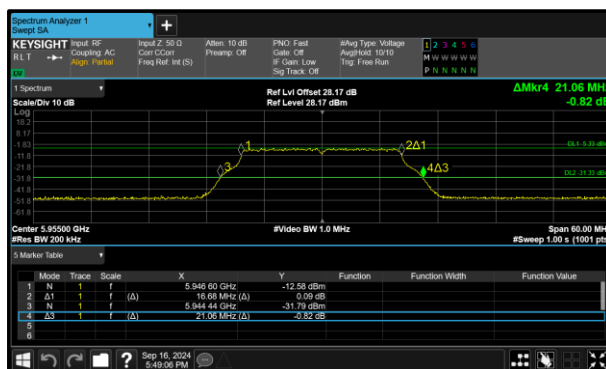


Figure 1 - 802.11a LPI Minimum 26 dB EBW

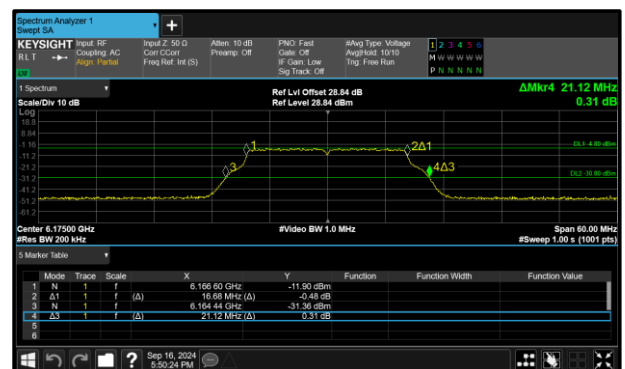


Figure 2 - 802.11a LPI Maximum 26 dB EBW

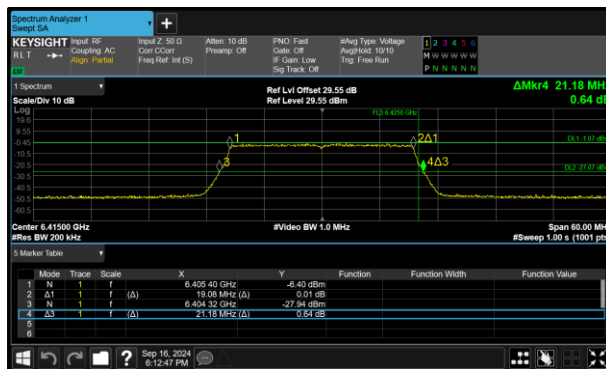


Figure 3 - 802.11ax HE20 SU LPI Minimum 26 dB EBW

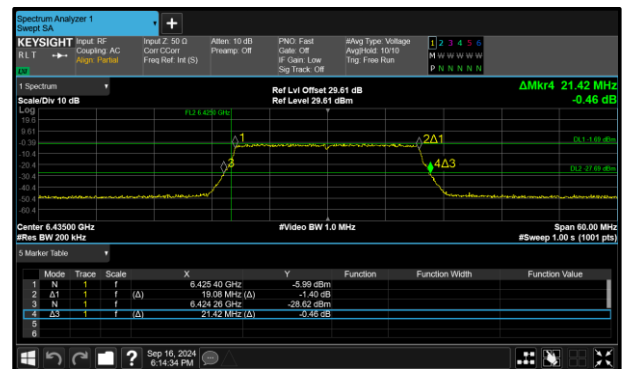


Figure 4 - 802.11ax HE20 SU LPI Maximum 26 dB EBW

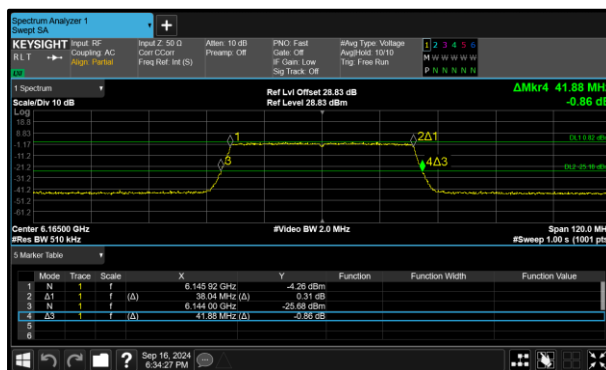


Figure 5 - 802.11ax HE40 SU LPI Minimum 26 dB EBW

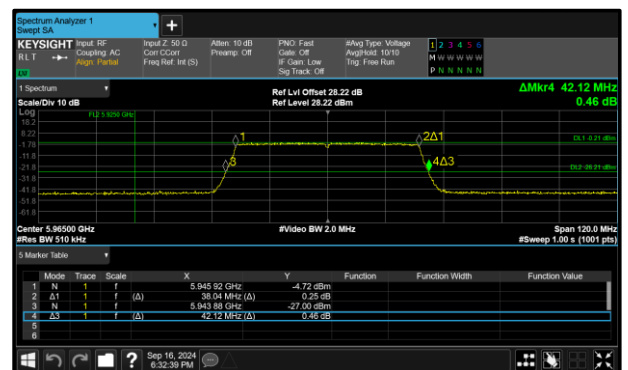


Figure 6 - 802.11ax HE40 SU LPI Maximum 26 dB EBW

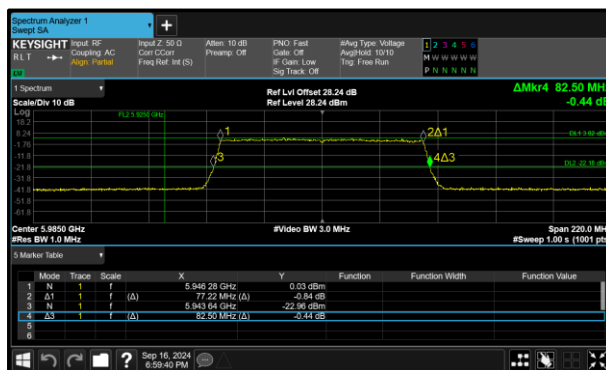


Figure 7 - 802.11ax HE80 SU LPI Minimum 26 dB EBW



Figure 8 - 802.11ax HE80 SU LPI Maximum 26 dB EBW

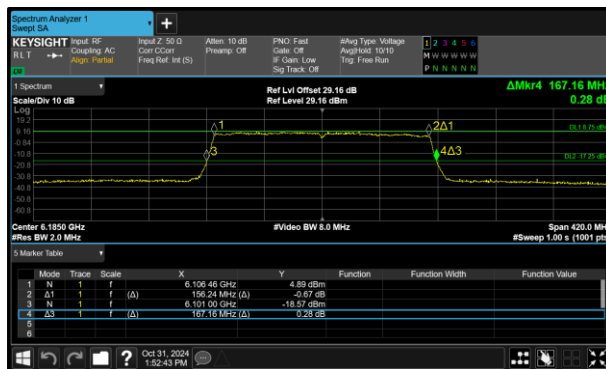


Figure 9 - 802.11ax HE160 SU LPI Minimum 26 dB EBW

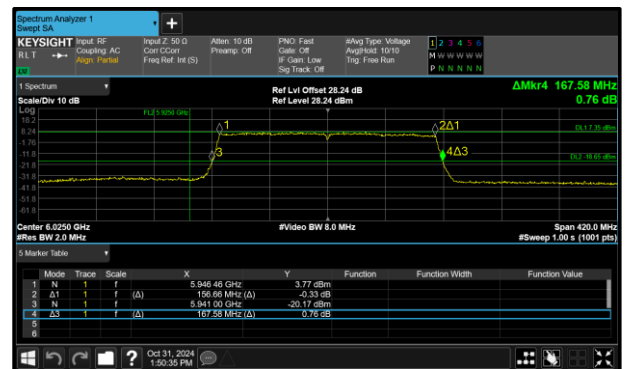


Figure 10 - 802.11ax HE160 SU LPI Maximum 26 dB EBW

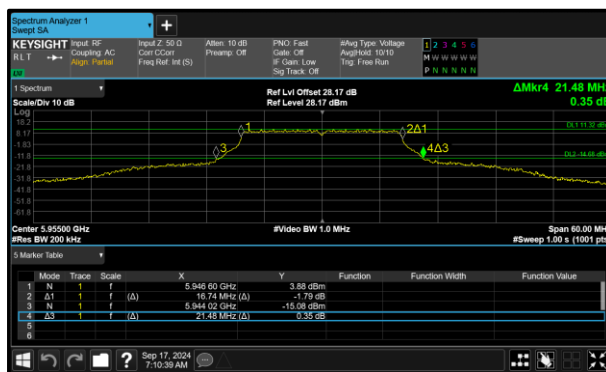


Figure 11 - 802.11a SP Minimum 26 dB EBW

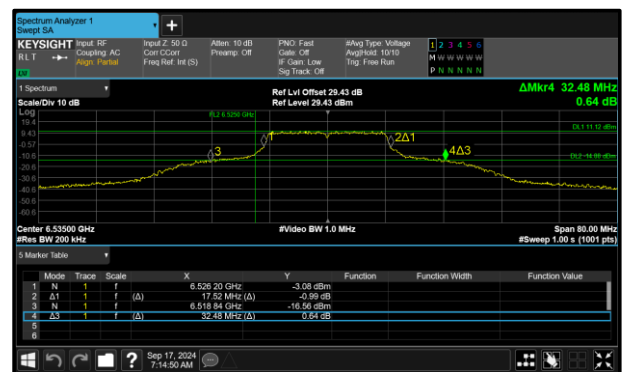


Figure 12 - 802.11a SP Maximum 26 dB EBW

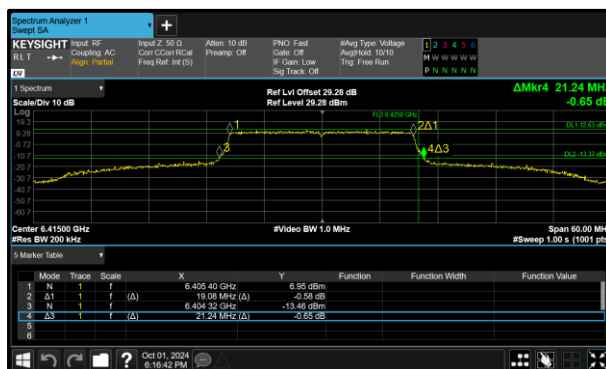


Figure 13 - 802.11ax HE20 SU SP Minimum 26 dB EBW

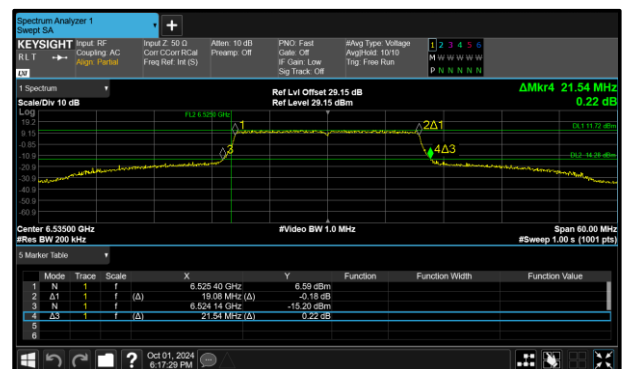


Figure 14 - 802.11ax HE20 SU SP Maximum 26 dB EBW

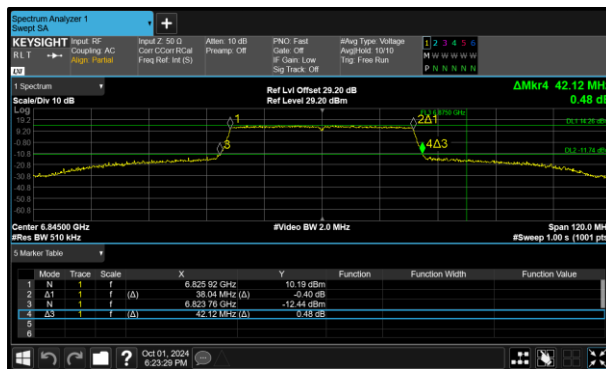


Figure 15 - 802.11ax HE40 SU SP Minimum 26 dB EBW

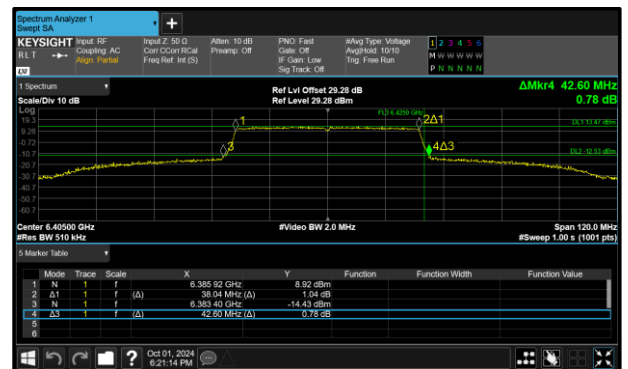


Figure 16 - 802.11ax HE40 SU SP Maximum 26 dB EBW

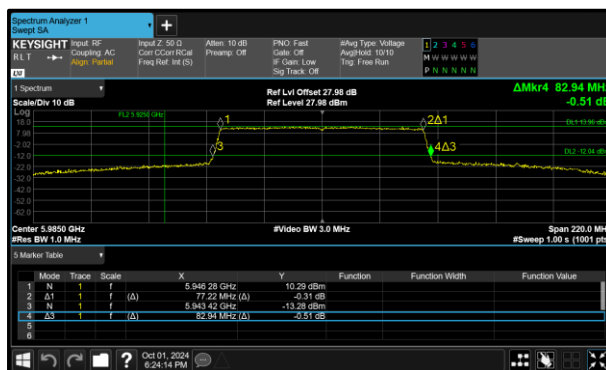


Figure 17 - 802.11ax HE80 SU SP Minimum 26 dB EBW

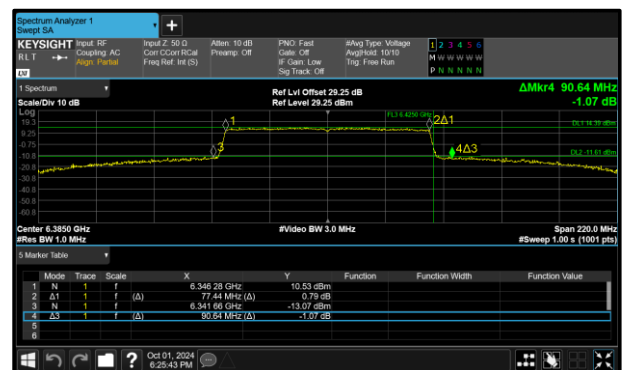


Figure 18 - 802.11ax HE80 SU SP Maximum 26 dB EBW

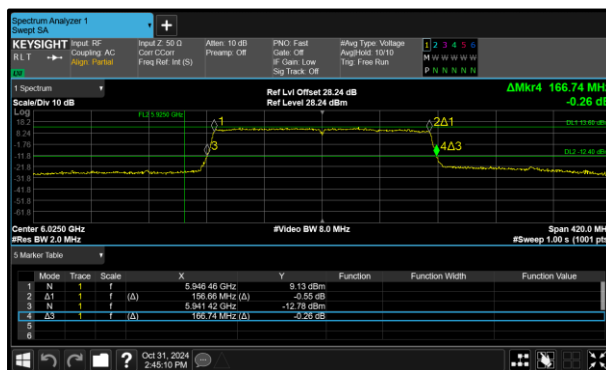


Figure 19 - 802.11ax HE160 SU SP Minimum 26 dB EBW

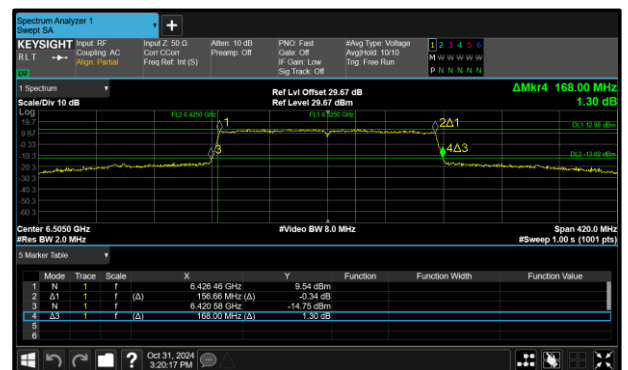
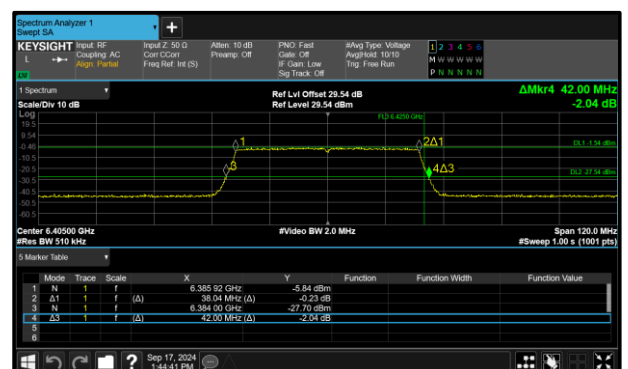
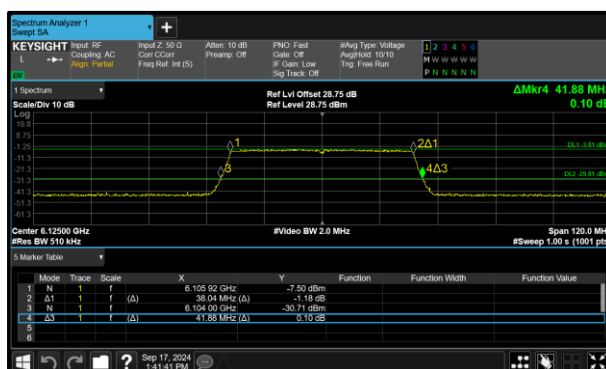
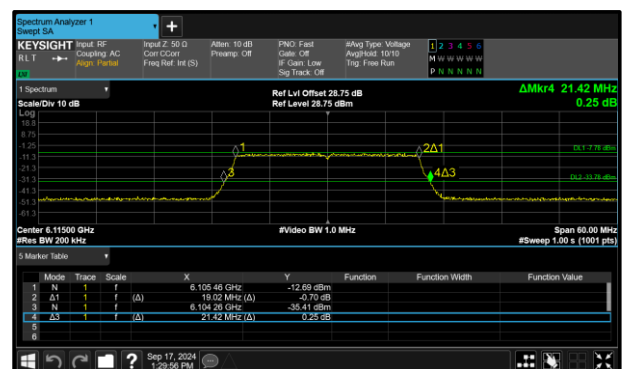
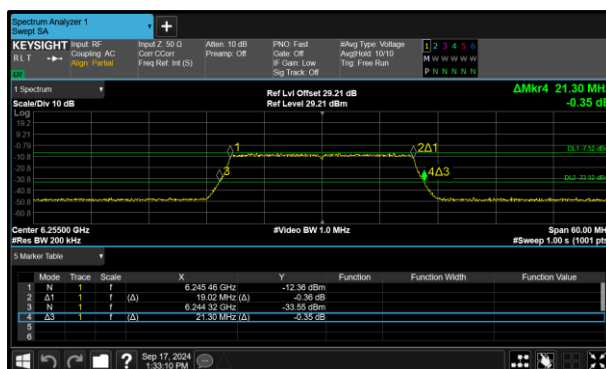
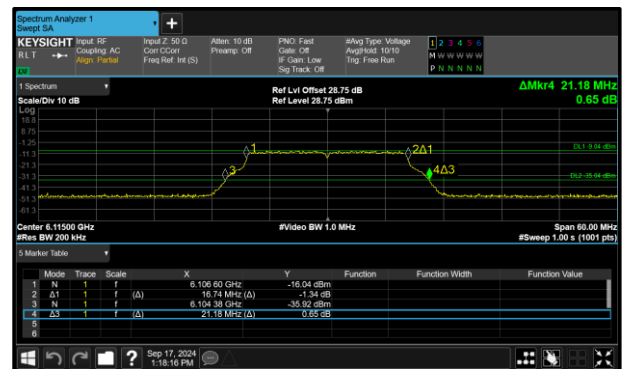
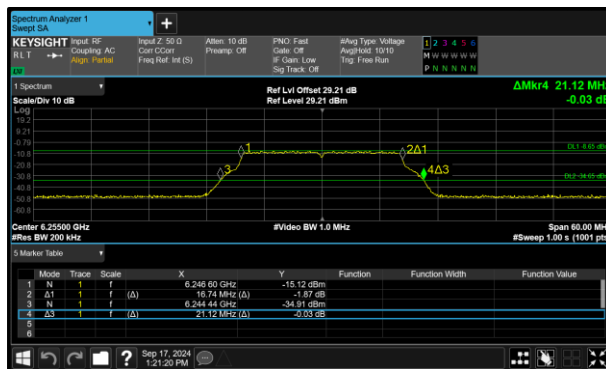


Figure 20 - 802.11ax HE160 SU SP Maximum 26 dB EBW



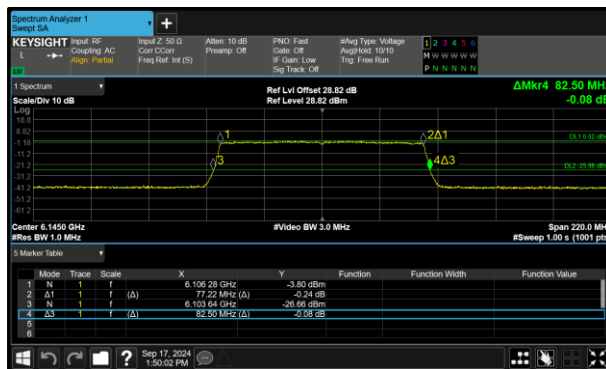


Figure 27 - 802.11ax HE80 SU VLP Minimum 26 dB EBW

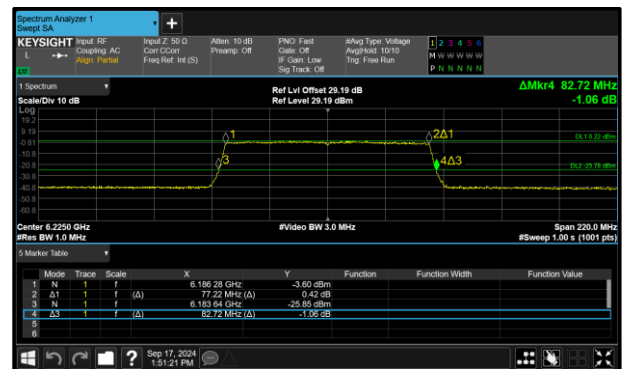


Figure 28 - 802.11ax HE80 SU VLP Maximum 26 dB EBW

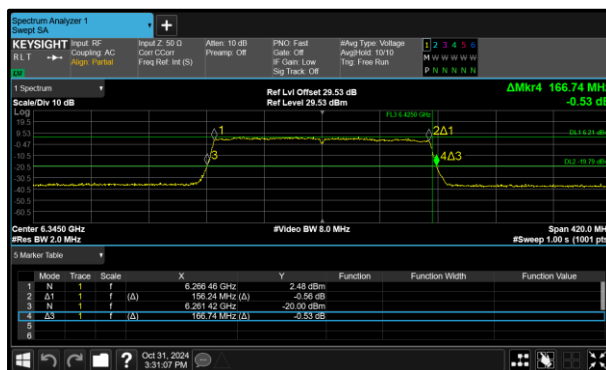


Figure 29 - 802.11ax HE160 SU VLP Minimum 26 dB EBW

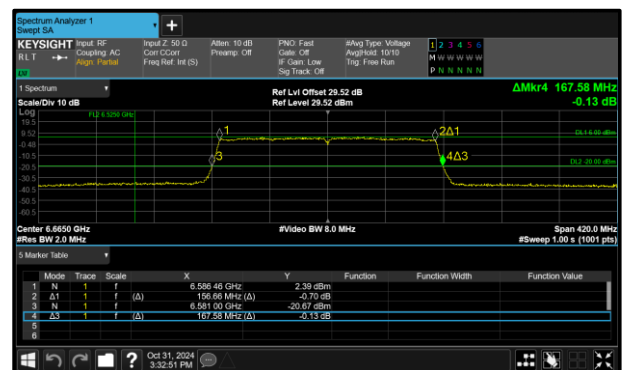


Figure 30 - 802.11ax HE160 SU VLP Maximum 26 dB EBW



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11a LPI	16.620	16.680
802.11ax HE20 SU LPI	18.960	19.080
802.11ax HE40 SU LPI	37.920	38.040
802.11ax HE80 SU LPI	77.220	77.220
802.11ax HE160 SU LPI	156.240	156.660
802.11a SP	16.740	17.520
802.11ax HE20 SU SP	19.080	19.400
802.11ax HE40 SU SP	38.040	38.600
802.11ax HE80 SU SP	77.220	78.000
802.11ax HE160 SU SP	156.240	156.660
802.11a VLP	16.680	16.740
802.11ax HE20 SU VLP	18.960	19.020
802.11ax HE40 SU VLP	38.040	38.040
802.11ax HE80 SU VLP	77.220	77.220
802.11ax HE160 SU VLP	156.660	156.660

Table 8 - 99% Bandwidth Summary Results - SISO

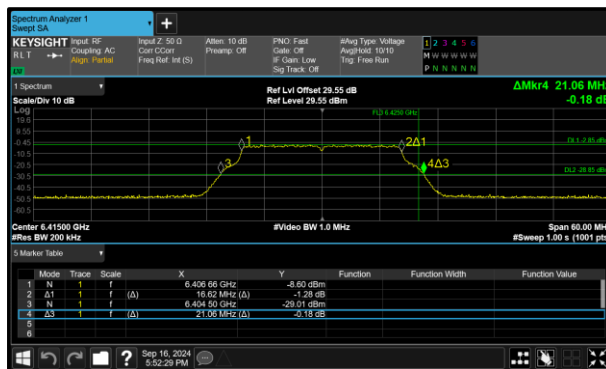


Figure 31 - 802.11a LPI Minimum 99% OBW

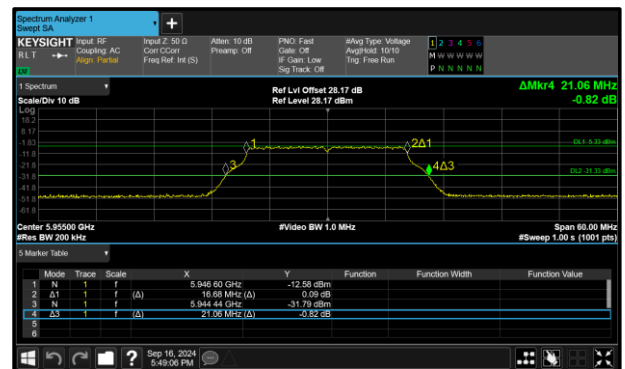


Figure 32 - 802.11a LPI Maximum 99% OBW

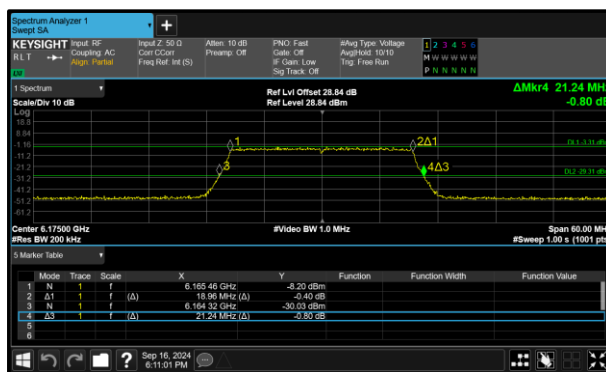


Figure 33 - 802.11ax HE20 SU LPI Minimum 99% OBW

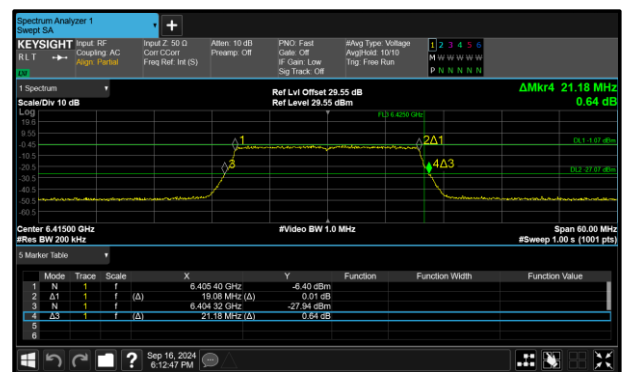


Figure 34 - 802.11ax HE20 SU LPI Maximum 99% OBW

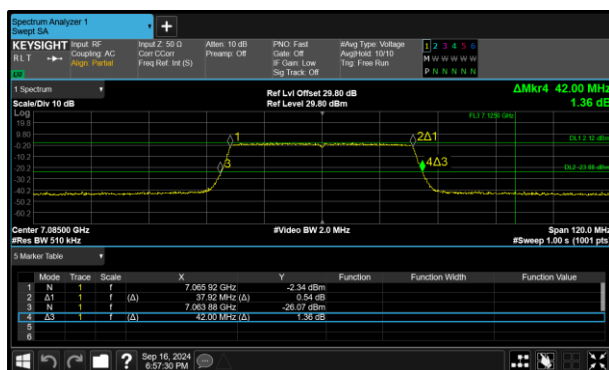


Figure 35 - 802.11ax HE40 SU LPI Minimum 99% OBW

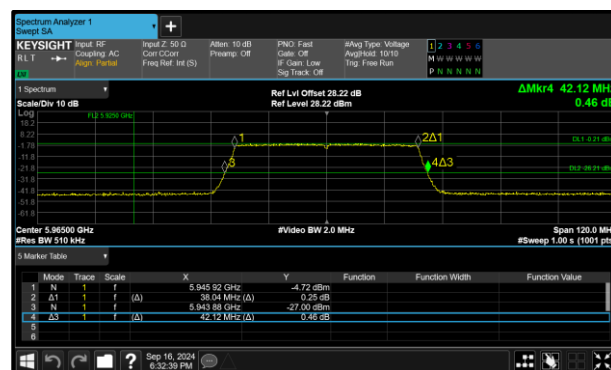


Figure 36 - 802.11ax HE40 SU LPI Maximum 99% OBW

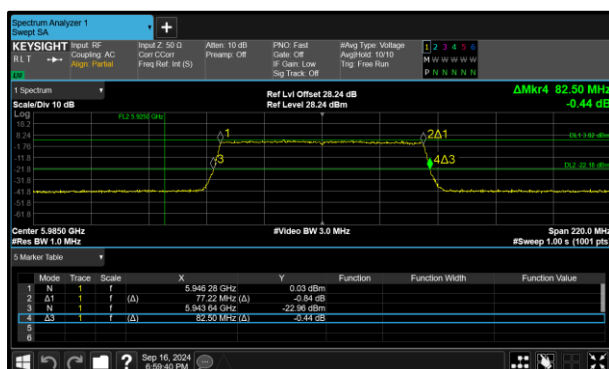


Figure 37 - 802.11ax HE80 SU LPI Minimum 99% OBW

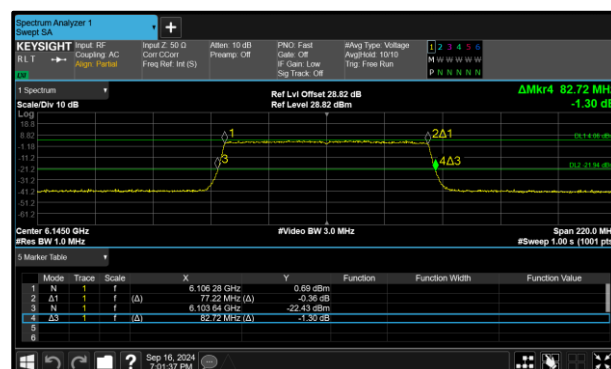


Figure 38 - 802.11ax HE80 SU LPI Maximum 99% OBW

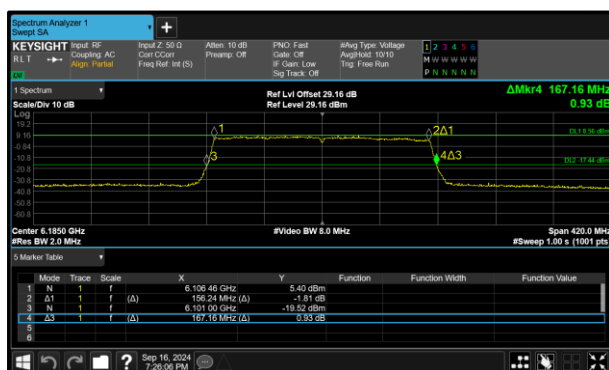


Figure 39 - 802.11ax HE160 SU LPI Minimum 99% OBW

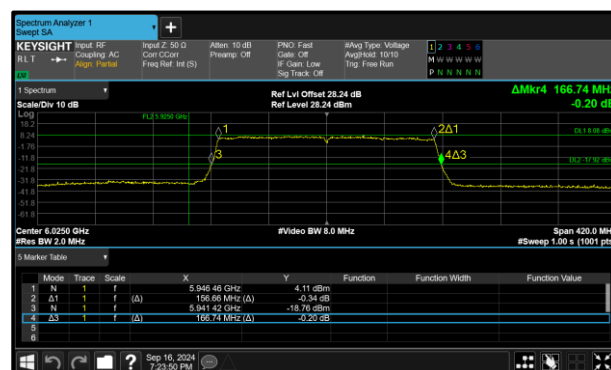


Figure 40 - 802.11ax HE160 SU LPI Maximum 99% OBW

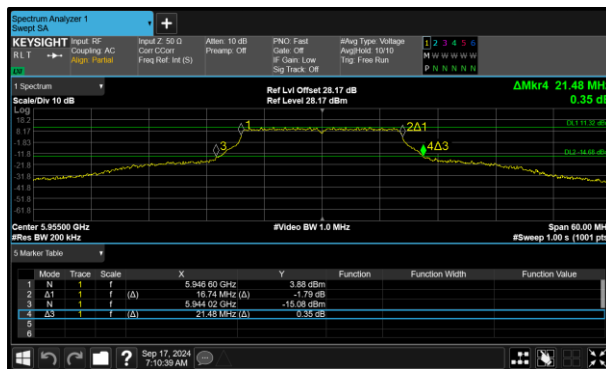


Figure 41 - 802.11a SP Minimum 99% OBW

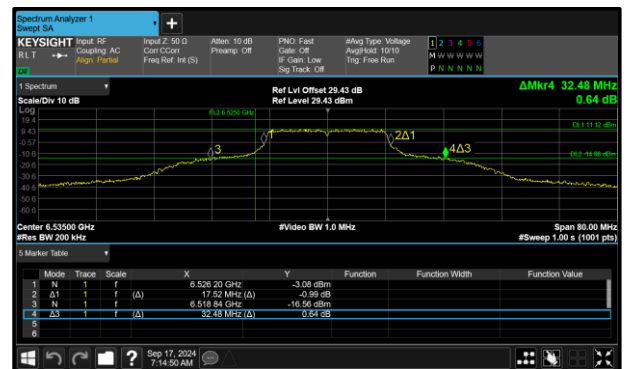


Figure 42 - 802.11a SP Maximum 99% OBW

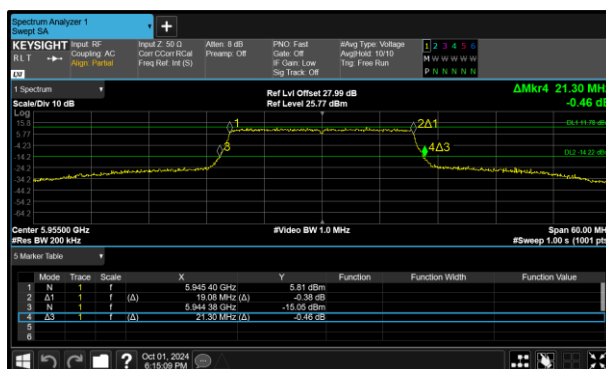


Figure 43 - 802.11ax HE20 SU SP Minimum 99% OBW

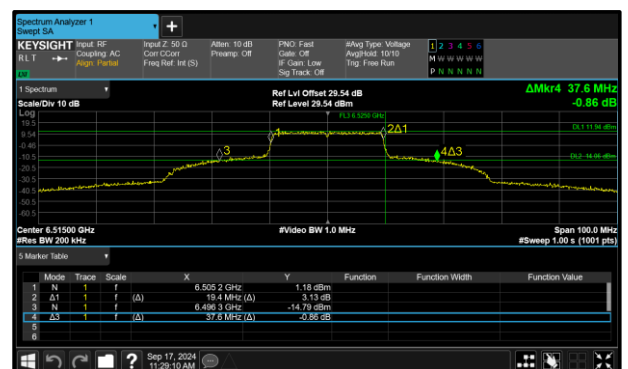


Figure 44 - 802.11ax HE20 SU SP Maximum 99% OBW

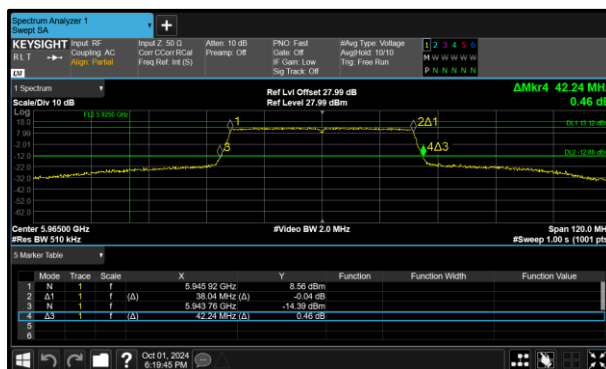


Figure 45 - 802.11ax HE40 SU SP Minimum 99% OBW

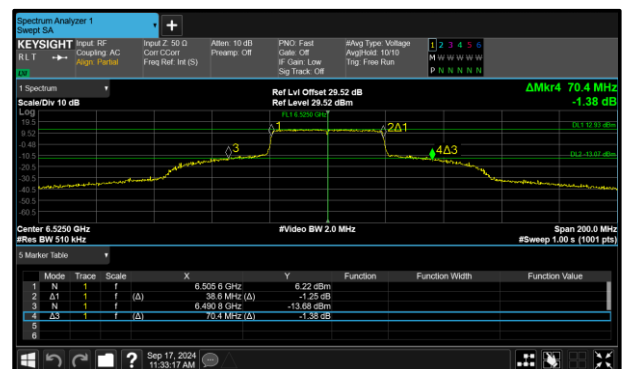


Figure 46 - 802.11ax HE40 SU SP Maximum 99% OBW

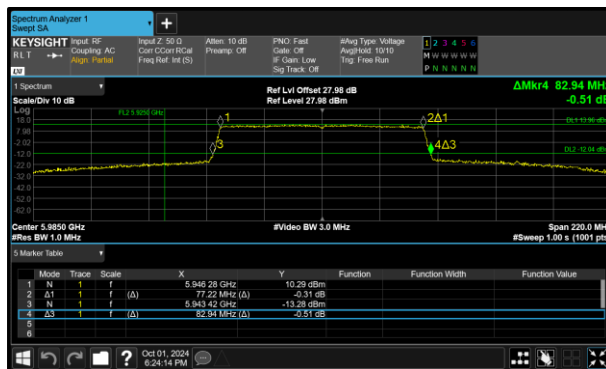


Figure 47 - 802.11ax HE80 SU SP Minimum 99% OBW

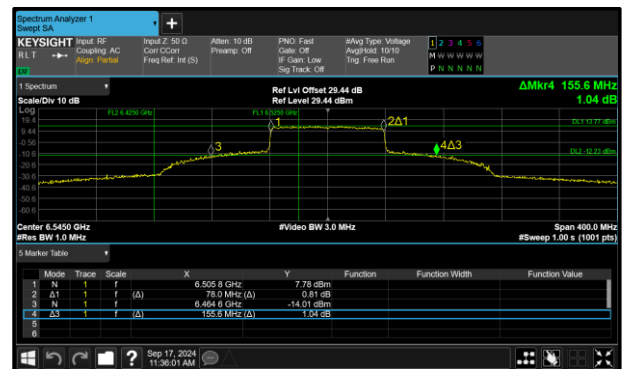


Figure 48 - 802.11ax HE80 SU SP Maximum 99% OBW

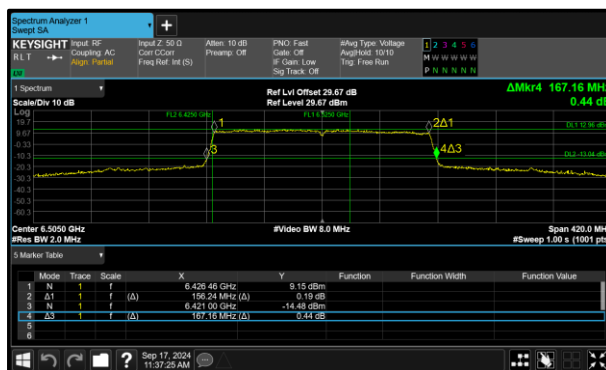


Figure 49 - 802.11ax HE160 SU SP Minimum 99% OBW

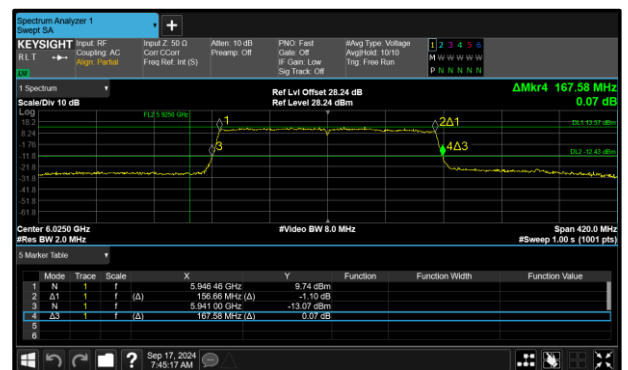


Figure 50 - 802.11ax HE160 SU SP Maximum 99% OBW

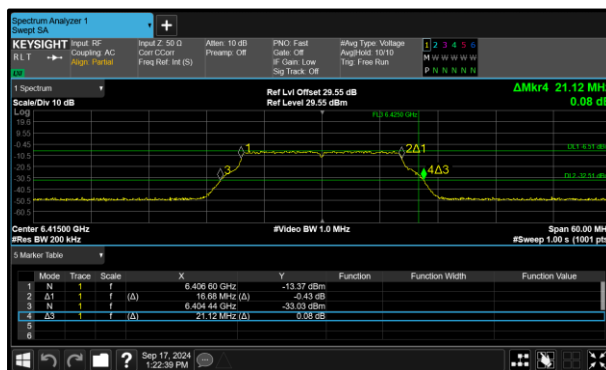


Figure 51 - 802.11a VLP Minimum 99% OBW

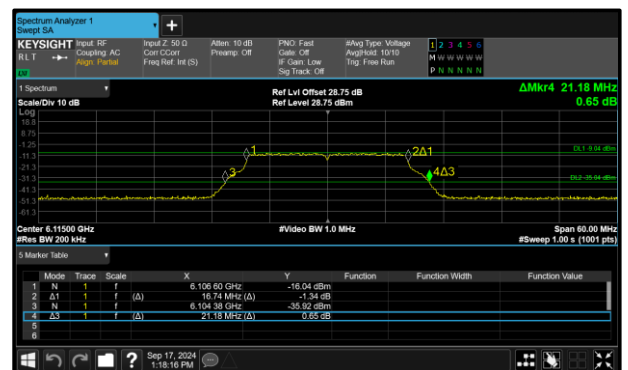


Figure 52 - 802.11a VLP Maximum 99% OBW

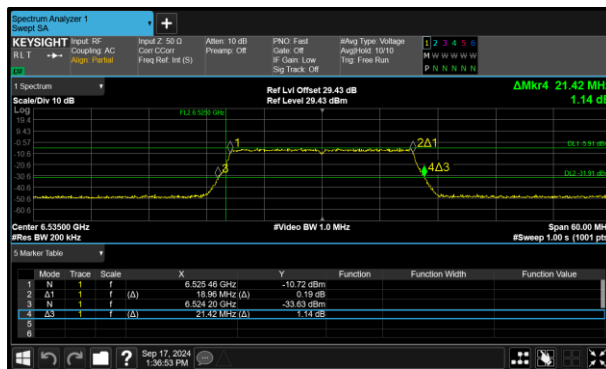


Figure 53 - 802.11ax HE20 SU VLP Minimum 99% OBW

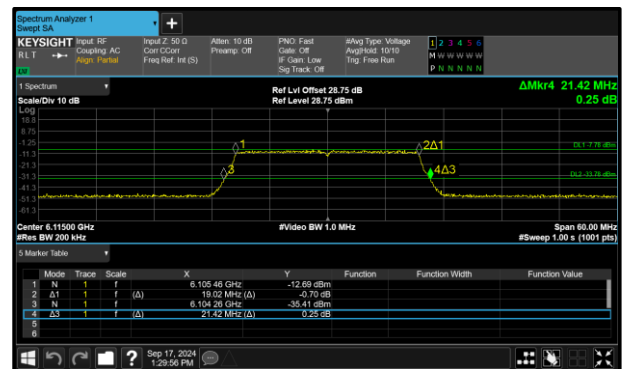


Figure 54 - 802.11ax HE20 SU VLP Maximum 99% OBW

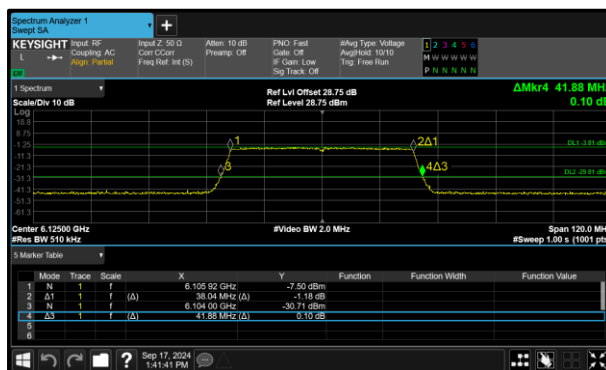


Figure 55 - 802.11ax HE40 SU VLP Minimum 99% OBW

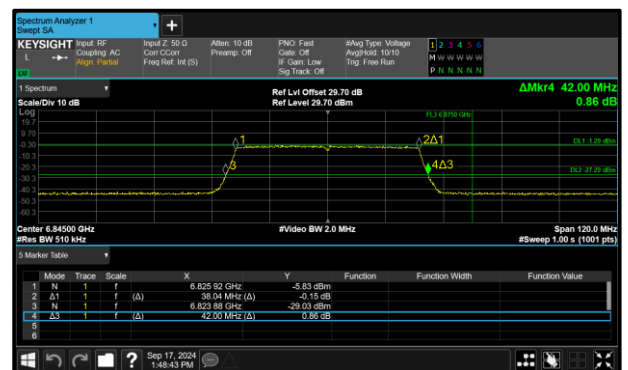


Figure 56 - 802.11ax HE40 SU VLP Maximum 99% OBW

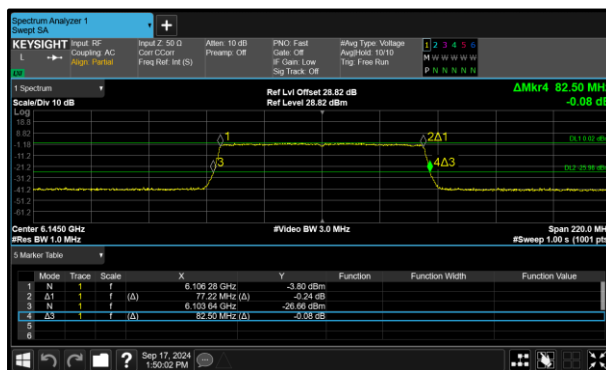


Figure 57 - 802.11ax HE80 SU VLP Minimum 99% OBW

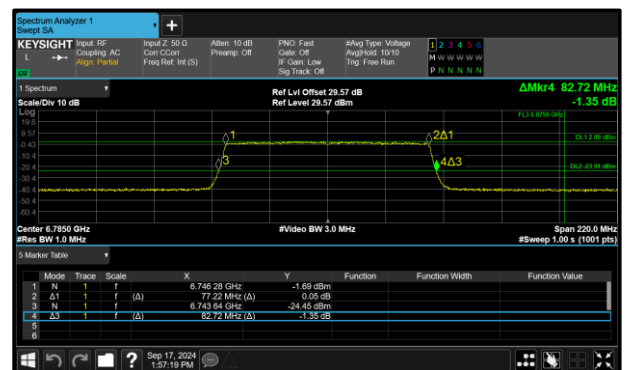


Figure 58 - 802.11ax HE80 SU VLP Maximum 99% OBW

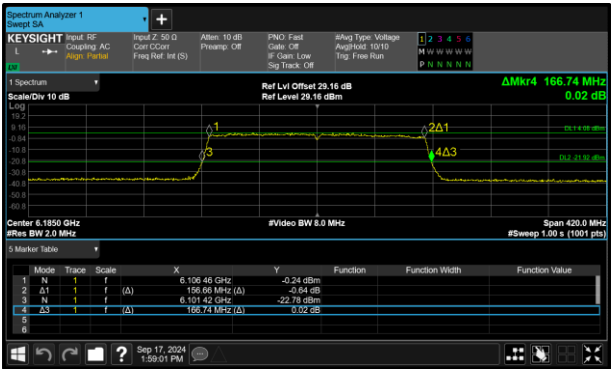


Figure 59 - 802.11ax HE160 SU VLP Minimum
99% OBW

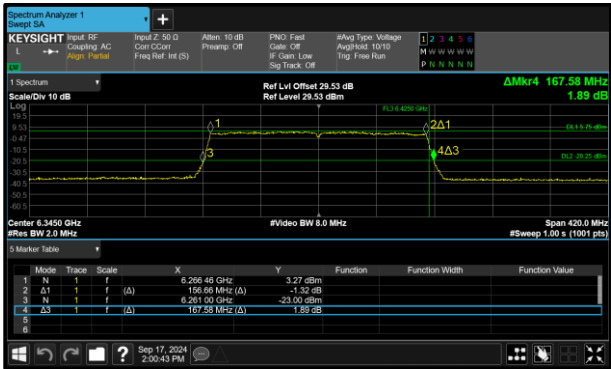


Figure 60 - 802.11ax HE160 SU VLP Maximum
99% OBW



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
5955	-	21.060	-	-	320.00
6175	21.120	-	-	-	320.00
6415	21.060	-	-	-	320.00
6435	21.060	-	-	-	320.00
6475	21.120	-	-	-	320.00
6515	21.120	-	-	-	320.00
6535	21.060	-	-	-	320.00
6695	21.120	-	-	-	320.00
6855	21.060	-	-	-	320.00
6875	21.120	-	-	-	320.00
6895	21.120	-	-	-	320.00
6995	21.060	-	-	-	320.00
7115	21.120	-	-	-	320.00

Table 9 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5955	-	16.680	-	-	320.00
6175	16.680	-	-	-	320.00
6415	16.620	-	-	-	320.00
6435	16.620	-	-	-	320.00
6475	16.680	-	-	-	320.00
6515	16.680	-	-	-	320.00
6535	16.680	-	-	-	320.00
6695	16.680	-	-	-	320.00
6855	16.680	-	-	-	320.00
6875	16.680	-	-	-	320.00
6895	16.680	-	-	-	320.00
6995	16.680	-	-	-	320.00
7115	16.680	-	-	-	320.00

Table 10 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
5955	-	21.300	-	-	320.00
6175	21.240	-	-	-	320.00
6415	21.180	-	-	-	320.00
6435	21.420	-	-	-	320.00
6475	21.300	-	-	-	320.00
6515	21.240	-	-	-	320.00
6535	21.240	-	-	-	320.00
6695	21.420	-	-	-	320.00
6855	21.360	-	-	-	320.00
6875	21.240	-	-	-	320.00
6895	21.360	-	-	-	320.00
6995	21.240	-	-	-	320.00
7095	21.360	-	-	-	320.00

Table 11 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5955	-	19.020	-	-	320.00
6175	18.960	-	-	-	320.00
6415	19.080	-	-	-	320.00
6435	19.080	-	-	-	320.00
6475	19.020	-	-	-	320.00
6515	19.020	-	-	-	320.00
6535	18.960	-	-	-	320.00
6695	19.020	-	-	-	320.00
6855	18.960	-	-	-	320.00
6875	18.960	-	-	-	320.00
6895	18.960	-	-	-	320.00
6995	19.080	-	-	-	320.00
7095	19.080	-	-	-	320.00

Table 12 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
5965	-	42.120	-	-	320.00
6165	41.880	-	-	-	320.00
6405	41.880	-	-	-	320.00
6445	42.000	-	-	-	320.00
6485	41.880	-	-	-	320.00
6525	42.000	-	-	-	320.00
6565	42.000	-	-	-	320.00
6685	42.000	-	-	-	320.00
6845	42.000	-	-	-	320.00
6885	41.880	-	-	-	320.00
6925	41.880	-	-	-	320.00
7005	42.000	-	-	-	320.00
7085	42.000	-	-	-	320.00

Table 13 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5965	-	38.040	-	-	320.00
6165	38.040	-	-	-	320.00
6405	38.040	-	-	-	320.00
6445	38.040	-	-	-	320.00
6485	38.040	-	-	-	320.00
6525	38.040	-	-	-	320.00
6565	38.040	-	-	-	320.00
6685	38.040	-	-	-	320.00
6845	38.040	-	-	-	320.00
6885	38.040	-	-	-	320.00
6925	38.040	-	-	-	320.00
7005	38.040	-	-	-	320.00
7085	37.920	-	-	-	320.00

Table 14 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
5985	-	82.500	-	-	320.00
6145	82.720	-	-	-	320.00
6385	82.720	-	-	-	320.00
6465	82.500	-	-	-	320.00
6545	82.500	-	-	-	320.00
6625	82.500	-	-	-	320.00
6705	82.500	-	-	-	320.00
6785	82.720	-	-	-	320.00
6865	82.720	-	-	-	320.00
6945	82.500	-	-	-	320.00
7025	82.720	-	-	-	320.00

Table 15 - 26 dB Bandwidth Results



Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5985	-	77.220	-	-	320.00
6145	77.220	-	-	-	320.00
6385	77.220	-	-	-	320.00
6465	77.220	-	-	-	320.00
6545	77.220	-	-	-	320.00
6625	77.220	-	-	-	320.00
6705	77.220	-	-	-	320.00
6785	77.220	-	-	-	320.00
6865	77.220	-	-	-	320.00
6945	77.220	-	-	-	320.00
7025	77.220	-	-	-	320.00

Table 16 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.425-6.525 GHz 6.525-6.875 GHz 6.875-7.125 GHz	Band:	U-NII-5 U-NII-6 U-NII-7 U-NII-8
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
6025	-	167.580	-	-	320.00
6185	167.160	-	-	-	320.00
6345	167.580	-	-	-	320.00
6505	167.160	-	-	-	320.00
6665	167.160	-	-	-	320.00
6825	167.160	-	-	-	320.00
6985	167.580	-	-	-	320.00

Table 17 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6025	-	156.660	-	-	320.00
6185	156.240	-	-	-	320.00
6345	156.660	-	-	-	320.00
6505	156.240	-	-	-	320.00
6665	156.660	-	-	-	320.00
6825	156.660	-	-	-	320.00
6985	156.660	-	-	-	320.00

Table 18 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
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 B (Core 0 Core 1)	Active Chain(s):	0 1

Test Frequency (MHz)	26 dB Bandwidth (MHz)				FCC Limit (MHz)
	A	B	C	D	
5955	-	21.480	-	-	320.00
6175	29.940	-	-	-	320.00
6415	30.360	-	-	-	320.00
6535	32.480	-	-	-	320.00
6695	25.020	-	-	-	320.00
6855	23.160	-	-	-	320.00

Table 19 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5955	-	16.740	-	-	320.00
6175	17.160	-	-	-	320.00
6415	17.100	-	-	-	320.00
6535	17.520	-	-	-	320.00
6695	16.920	-	-	-	320.00
6855	16.800	-	-	-	320.00

Table 20 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	RSS-248 4.4	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
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)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6435	16.920	-	-	-	320.00
6475	17.040	-	-	-	320.00
6515	17.280	-	-	-	320.00

Table 21 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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:	SISO	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)				FCC Limit (MHz)
	A	B	C	D	
5955	-	21.300	-	-	320.00
6175	21.480	-	-	-	320.00
6415	21.240	-	-	-	320.00
6535	21.540	-	-	-	320.00
6695	21.540	-	-	-	320.00
6855	21.480	-	-	-	320.00

Table 22 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5955	-	19.080	-	-	320.00
6175	19.080	-	-	-	320.00
6415	19.080	-	-	-	320.00
6535	19.080	-	-	-	320.00
6695	19.080	-	-	-	320.00
6855	19.080	-	-	-	320.00

Table 23 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	RSS-248 4.4	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:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6435	19.200	-	-	-	320.00
6475	19.280	-	-	-	320.00
6515	19.400	-	-	-	320.00

Table 24 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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:	SISO	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)				FCC Limit (MHz)
	A	B	C	D	
5965	-	42.240	-	-	320.00
6165	42.240	-	-	-	320.00
6405	42.600	-	-	-	320.00
6565	42.240	-	-	-	320.00
6685	42.240	-	-	-	320.00
6845	42.120	-	-	-	320.00

Table 25 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5965	-	38.040	-	-	320.00
6165	38.040	-	-	-	320.00
6405	38.040	-	-	-	320.00
6565	38.040	-	-	-	320.00
6685	38.040	-	-	-	320.00
6845	38.040	-	-	-	320.00

Table 26 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	RSS-248 4.4	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:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6445	38.400	-	-	-	320.00
6485	38.500	-	-	-	320.00
6525	38.600	-	-	-	320.00

Table 27 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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:	SISO	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)				FCC Limit (MHz)
	A	B	C	D	
5985	-	82.940	-	-	320.00
6145	82.940	-	-	-	320.00
6385	90.640	-	-	-	320.00
6625	83.160	-	-	-	320.00
6705	83.160	-	-	-	320.00
6785	82.940	-	-	-	320.00

Table 28 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
5985	-	77.220	-	-	320.00
6145	77.220	-	-	-	320.00
6385	77.440	-	-	-	320.00
6625	77.440	-	-	-	320.00
6705	77.440	-	-	-	320.00
6785	77.220	-	-	-	320.00

Table 29 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	RSS-248 4.4	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:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6465	77.660	-	-	-	320.00
6545	78.000	-	-	-	320.00

Table 30 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11) RSS-248 4.4	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:	SISO	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)				FCC Limit (MHz)
	A	B	C	D	
6025	-	166.740	-	-	320.00
6185	167.160	-	-	-	320.00
6345	167.160	-	-	-	320.00
6665	167.580	-	-	-	320.00

Table 31 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6025	-	156.660	-	-	320.00
6185	156.660	-	-	-	320.00
6345	156.660	-	-	-	320.00
6665	156.660	-	-	-	320.00

Table 32 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	6.425-6.525 GHz	Band:	U-NII-6
Limit Clause(s):	RSS-248 4.4	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:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6505	156.240	-	-	-	320.00

Table 33 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11)	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11a VLP	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)				FCC Limit (MHz)
	A	B	C	D	
6115	21.180	-	-	-	320.00
6255	21.120	-	-	-	320.00
6415	21.120	-	-	-	320.00
6535	21.120	-	-	-	320.00
6695	21.180	-	-	-	320.00
6855	21.120	-	-	-	320.00

Table 34 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6115	16.740	-	-	-	320.00
6255	16.740	-	-	-	320.00
6415	16.680	-	-	-	320.00
6535	16.680	-	-	-	320.00
6695	16.740	-	-	-	320.00
6855	16.680	-	-	-	320.00

Table 35 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11)	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU VLP	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)				FCC Limit (MHz)
	A	B	C	D	
6115	21.420	-	-	-	320.00
6255	21.300	-	-	-	320.00
6415	21.420	-	-	-	320.00
6535	21.420	-	-	-	320.00
6695	21.300	-	-	-	320.00
6855	21.360	-	-	-	320.00

Table 36 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6115	19.020	-	-	-	320.00
6255	19.020	-	-	-	320.00
6415	19.020	-	-	-	320.00
6535	18.960	-	-	-	320.00
6695	19.020	-	-	-	320.00
6855	19.020	-	-	-	320.00

Table 37 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11)	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE40 SU VLP	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)				FCC Limit (MHz)
	A	B	C	D	
6125	41.880	-	-	-	320.00
6245	41.880	-	-	-	320.00
6405	42.000	-	-	-	320.00
6565	41.880	-	-	-	320.00
6685	42.000	-	-	-	320.00
6845	42.000	-	-	-	320.00

Table 38 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6125	38.040	-	-	-	320.00
6245	38.040	-	-	-	320.00
6405	38.040	-	-	-	320.00
6565	38.040	-	-	-	320.00
6685	38.040	-	-	-	320.00
6845	38.040	-	-	-	320.00

Table 39 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11)	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE80 SU VLP	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)				FCC Limit (MHz)
	A	B	C	D	
6145	82.500	-	-	-	320.00
6225	82.720	-	-	-	320.00
6385	82.720	-	-	-	320.00
6625	82.500	-	-	-	320.00
6705	82.720	-	-	-	320.00
6785	82.720	-	-	-	320.00

Table 40 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6145	77.220	-	-	-	320.00
6225	77.220	-	-	-	320.00
6385	77.220	-	-	-	320.00
6625	77.220	-	-	-	320.00
6705	77.220	-	-	-	320.00
6785	77.220	-	-	-	320.00

Table 41 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	5.925-6.425 GHz 6.525-6.875 GHz	Band:	U-NII-5 U-NII-7
Limit Clause(s):	15.407 (a)(11)	Test Method(s):	C63.10 6.9.3 C63.10 12.5.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE160 SU VLP	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)				FCC Limit (MHz)
	A	B	C	D	
6185	167.160	-	-	-	320.00
6345	166.740	-	-	-	320.00
6665	167.580	-	-	-	320.00

Table 42 - 26 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				ISED Limit (MHz)
	A	B	C	D	
6185	156.660	-	-	-	320.00
6345	156.660	-	-	-	320.00
6665	156.660	-	-	-	320.00

Table 43 - 99% Bandwidth Results



MIMO CDD

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	83.160
802.11ax HE160 SU LPI	166.320	167.580
802.11ax HE20 SU SP	21.240	21.480
802.11ax HE40 SU SP	42.000	52.560
802.11ax HE80 SU SP	82.940	120.560
802.11ax HE160 SU SP	166.320	168.000
802.11ax HE20 SU VLP	21.180	21.540
802.11ax HE40 SU VLP	41.880	42.240
802.11ax HE80 SU VLP	82.280	82.940
802.11ax HE160 SU VLP	166.740	167.580

Table 44 - 26 dB Bandwidth Summary Results - MIMO CDD

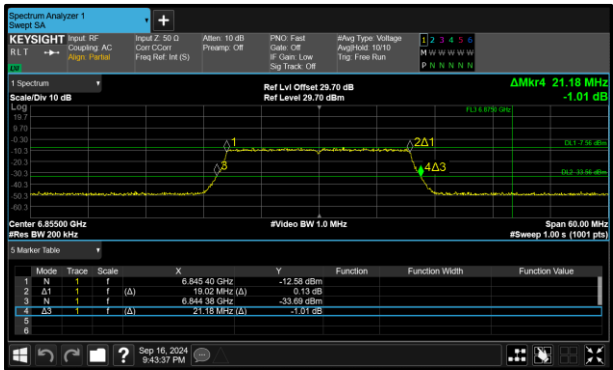


Figure 61 - 802.11ax HE20 SU LPI Minimum 26 dB EBW

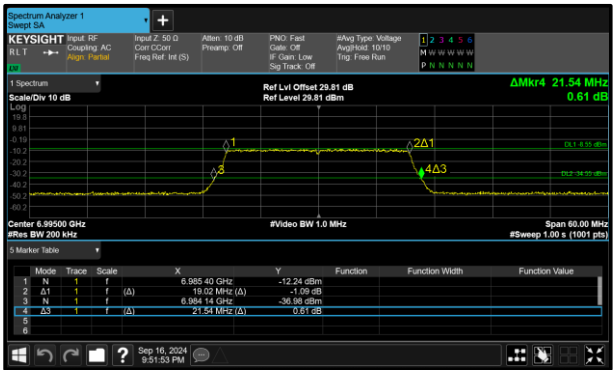


Figure 62 - 802.11ax HE20 SU LPI Maximum 26 dB EBW

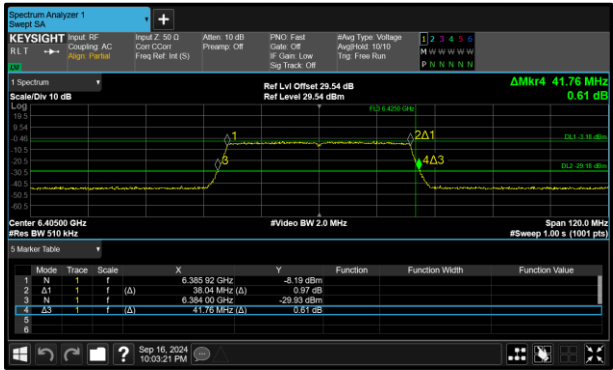


Figure 63 - 802.11ax HE40 SU LPI Minimum 26 dB EBW

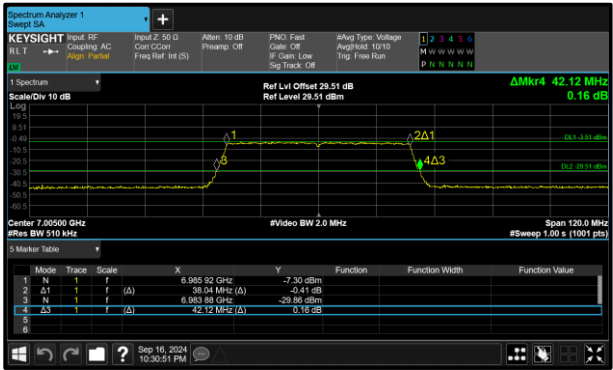


Figure 64 - 802.11ax HE40 SU LPI Maximum 26 dB EBW

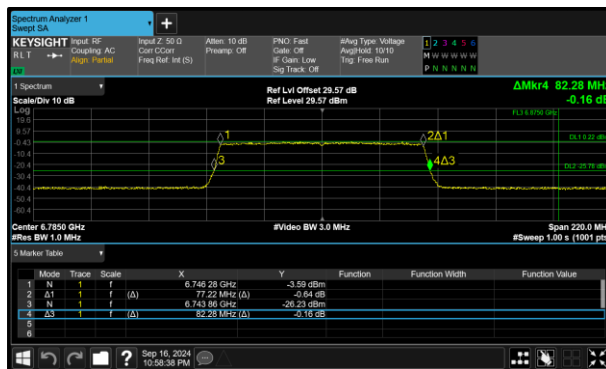


Figure 65 - 802.11ax HE80 SU LPI Minimum 26 dB EBW

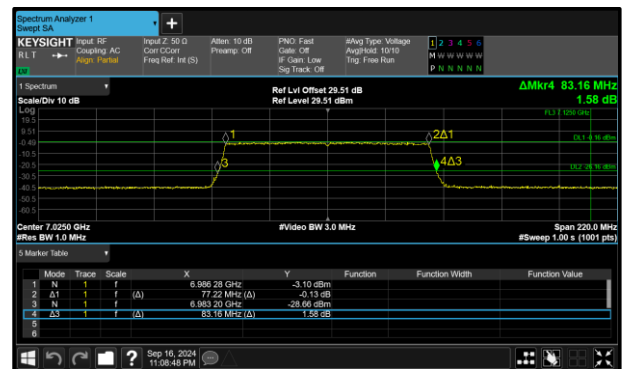


Figure 66 - 802.11ax HE80 SU LPI Maximum 26 dB EBW

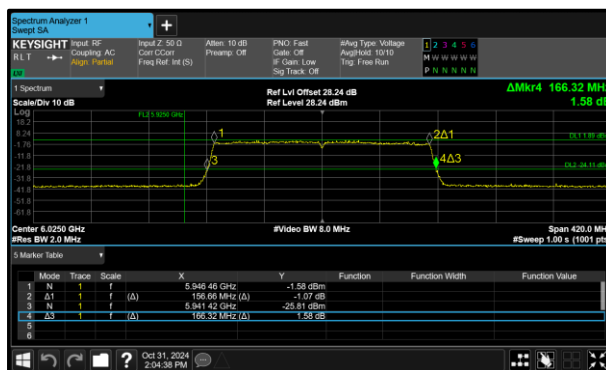


Figure 67 - 802.11ax HE160 SU LPI Minimum 26 dB EBW

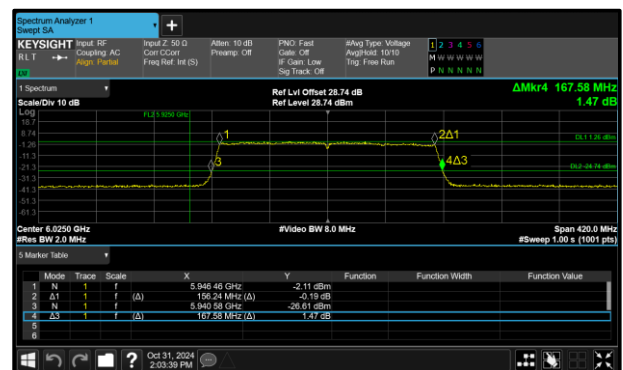


Figure 68 - 802.11ax HE160 SU LPI Maximum 26 dB EBW

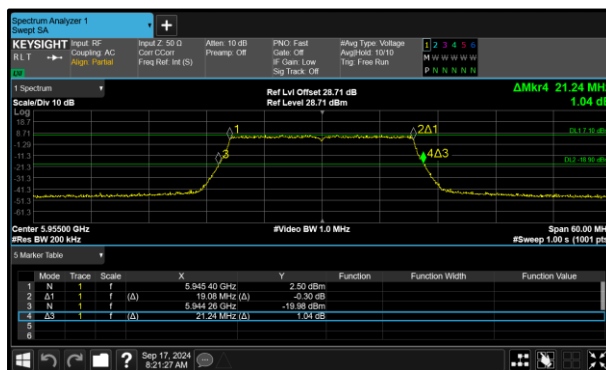


Figure 69 - 802.11ax HE20 SU SP Minimum 26 dB EBW

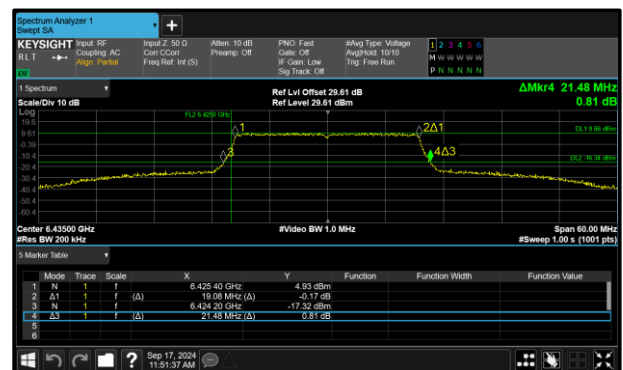


Figure 70 - 802.11ax HE20 SU SP Maximum 26 dB EBW

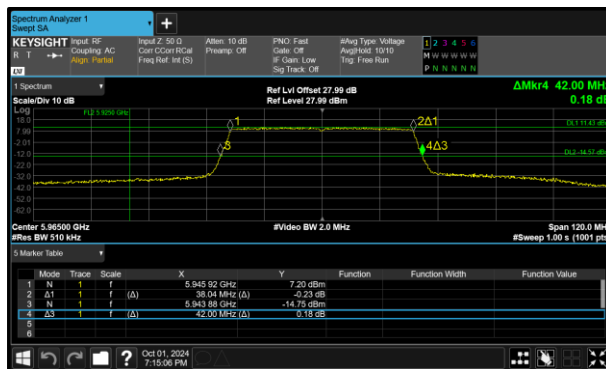


Figure 71 - 802.11ax HE40 SU SP Minimum 26 dB EBW

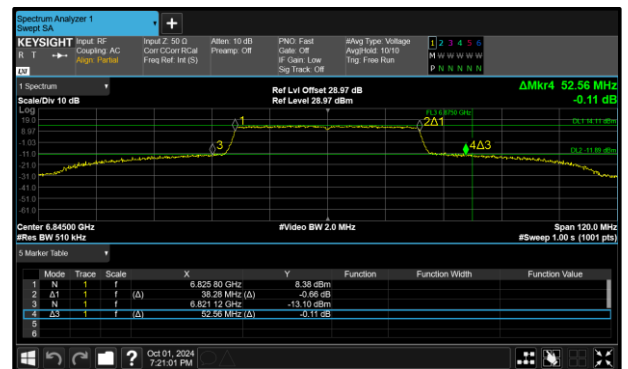


Figure 72 - 802.11ax HE40 SU SP Maximum 26 dB EBW

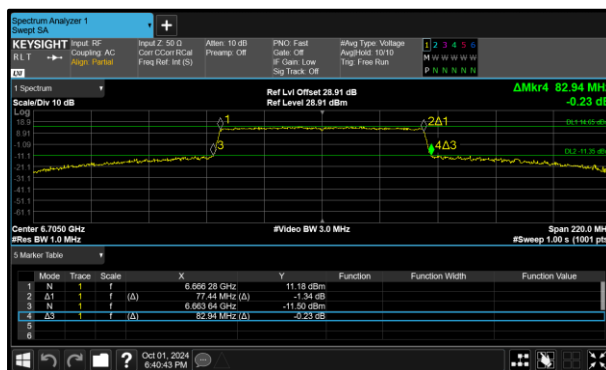


Figure 73 - 802.11ax HE80 SU SP Minimum 26 dB EBW

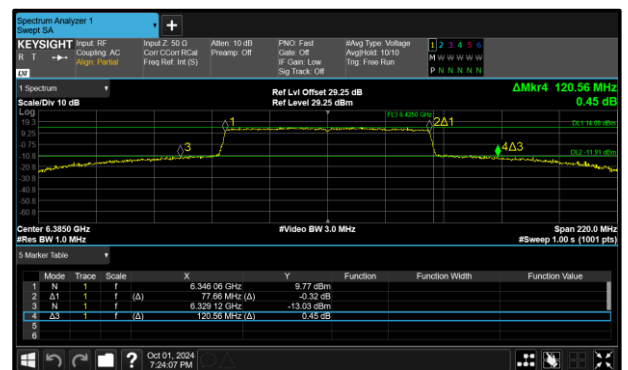


Figure 74 - 802.11ax HE80 SU SP Maximum 26 dB EBW

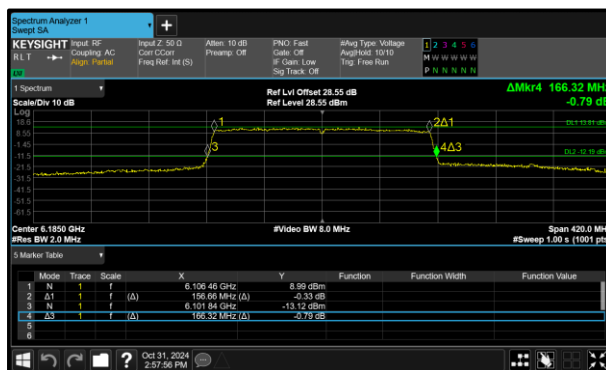


Figure 75 - 802.11ax HE160 SU SP Minimum 26 dB EBW

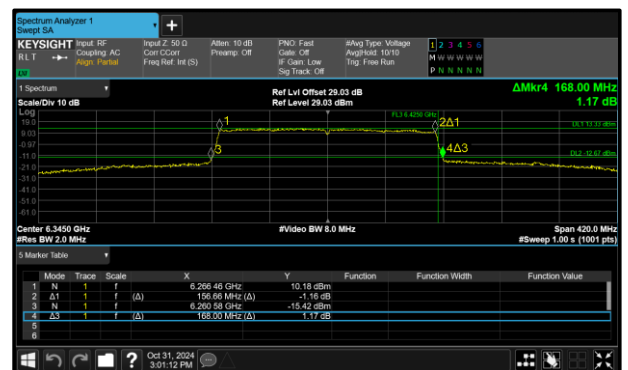


Figure 76 - 802.11ax HE160 SU SP Maximum 26 dB EBW