

RF MEASUREMENT REPORT

FCC ID : VW3FAST380BA
Applicant : SAGEMCOM BROADBAND SAS
Application Type : Certification
Product : Tri-band WIFI7 router
Model No. : Fast 380ba
Brand Name : Sagemcom
FCC Classification : 15E 6GHz Low Power Indoor Access Point (6ID)
FCC Rule Part(s) : Part 15 Subpart E (Section 15.407)
Received Date : September 18, 2024~October 16, 2024
Test Date : September 21 ~ November 27, 2024

Tested By : Owen Tsai
(Owen Tsai)
Reviewed By : Paddy Chen
(Paddy Chen)
Approved By : Chenz Ker
(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB789033. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2409TW0114-U5	1.0	Original Report	2024-11-27	

CONTENTS

Description	Page
1. INTRODUCTION	7
1.1. Scope	7
1.2. MRT Test Location.....	7
2. Product Information	8
2.1. Equipment Description.....	8
2.2. Radio Specification	9
2.3. Working Frequencies	10
2.4. Antenna Details.....	13
2.5. Test Mode	13
2.6. Test System Connection Diagram	14
2.7. Test System Details	15
2.8. Test Software	15
2.9. Applied Standards.....	15
2.10. Duty Cycle.....	16
2.11. Test Environment Condition	18
3. Antenna Requirements	19
4. Measuring Instrument	20
5. Measurement Uncertainty.....	22
5.1. Decision Rules	22
5.2. Measurement Uncertainty.....	22
6. Test Result.....	23
6.1. Summary.....	23
6.2. 26dB Bandwidth.....	24
6.2.1. Test Limit.....	24
6.2.2. Test Procedure used	24
6.2.3. Test Setting.....	24
6.2.4. Test Setup	25
6.2.5. Test Result.....	26
6.3. Output Power	48
6.3.1. Test Limit.....	48
6.3.2. Test Procedure Used	48
6.3.3. Test Setting	48
6.3.4. Test Setup	49
6.3.5. Test Result	50
6.4. Power Spectral Density.....	55

6.4.1.	Test Limit	55
6.4.2.	Test Procedure Used	55
6.4.3.	Test Setting	55
6.4.4.	Test Setup	56
6.4.5.	Test Result	57
6.5.	In-Band Emission Measurement.....	79
6.5.1.	Test Limit	79
6.5.2.	Test Procedure used	79
6.5.3.	Test Setting	79
6.5.4.	Test Setup	80
6.5.5.	Test Result	81
6.6.	Frequency Stability Measurement	107
6.6.1.	Test Limit	107
6.6.2.	Test Procedure.....	107
6.6.3.	Test Setup	108
6.6.4.	Test Result	109
6.7.	Contention Based Protocol	110
6.7.1.	Test Limit	110
6.7.2.	Test Procedure Used	110
6.7.3.	Test Setting	110
6.7.4.	Test Setup	111
6.7.5.	Test Result	112
6.8.	Radiated Spurious Emission.....	123
6.8.1.	Test Limit	123
6.8.2.	Test Procedure Used	123
6.8.3.	Test Setting	123
6.8.4.	Test Setup	125
6.8.5.	Test Result	126
6.9.	Radiated Restricted Band Edge	344
6.9.1.	Test Limit	344
6.9.2.	Test Procedure Used	345
6.9.3.	Test Setting	345
6.9.4.	Test Setup	346
6.9.5.	Test Result	347
6.10.	AC Conducted Emissions	427
6.10.1.	Test Limit	427
6.10.2.	Test Setup	427
6.10.3.	Test Result	428

7.	Conclusion	430
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Appendix A : Test Setup Photograph	431
Appendix B : External Photograph	431
Appendix C : Internal Photograph	431

General Information

Applicant	SAGEMCOM BROADBAND SAS
Applicant Address	4 ALLEE DES MESSAGERIES 92271 BOIS-COLOMBES CEDEX - FRANCE
Manufacturer	SAGEMCOM BROADBAND SAS
Manufacturer Address	4 ALLEE DES MESSAGERIES 92271 BOIS-COLOMBES CEDEX - FRANCE
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.407

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

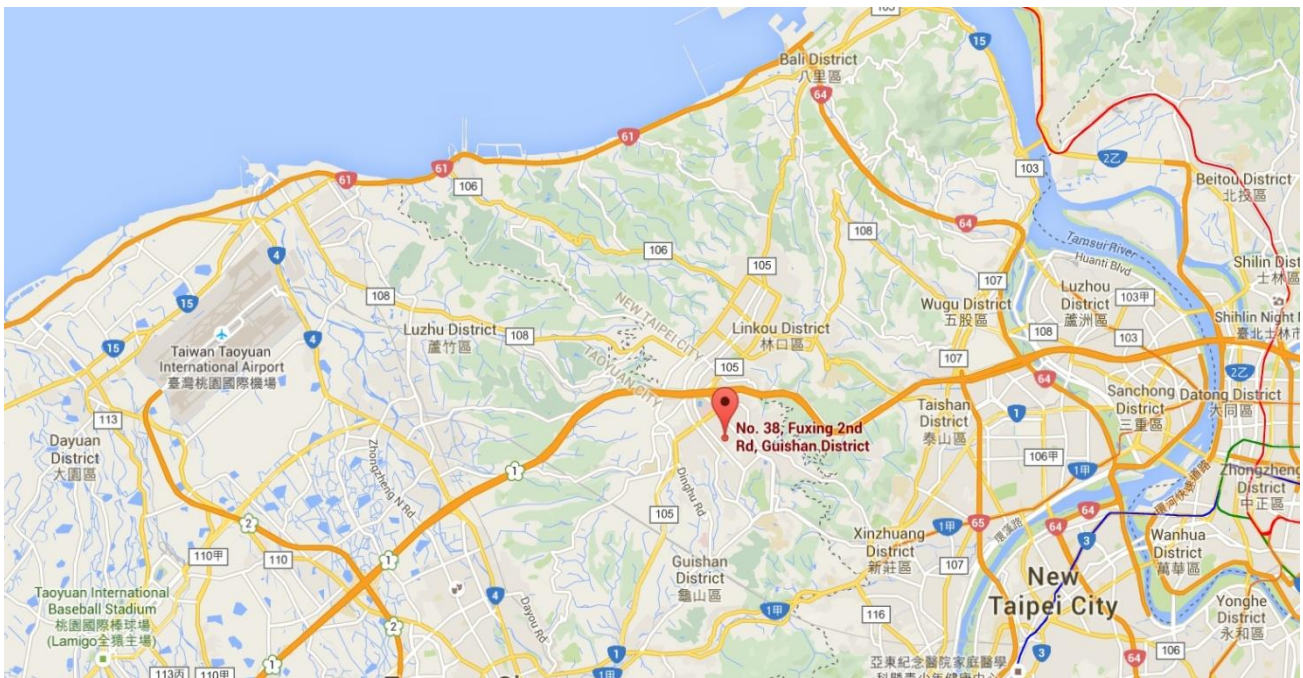
1. INTRODUCTION

1.1. Scope

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

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. Product Information

2.1. Equipment Description

Product Name:	Tri-band WIFI7 router
Model No.:	Fast 380ba
Brand Name:	Sagemcom
Wi-Fi Specification:	802.11a/b/g/n/ac/ax/be
EUT Identification No.:	#1-1 (Conducted) #1-2 (Radiated)
Accessory	
Power Adapter#1	Brand: Sagemcom Model No: ADS-50DG-12 12049EPCU-L Input: AC 100-127V, 50-60Hz, Max 1.2A Output: 12.0V=4.1A DC Cable Out: Non-Shielded, 1.8m
Power Adapter#2	Brand: Sagemcom Model No: MS-V4100R120-050A0-US Input: AC 100-127V, 50-60Hz, Max 1.3A Output: 12.0V=4.1A 49.2W DC Cable Out: Non-Shielded, 1.8m
Power Adapter#3	Brand: Sagemcom Model No: NBS42G120410VU Input: AC 100-127V, 50-60Hz, Max 1.5A Output: 12.0V=4.1A DC Cable Out: Non-Shielded, 1.8m
Remark:	
- The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. - For this report, we select Adapter 1# for testing.	

2.2. Radio Specification

Frequency Range	For 802.11ax-HE20/be-EHT20: 5955 ~ 7095MHz For 802.11ax-HE40/be-EHT40: 5965 ~ 7085MHz For 802.11ax-HE80/be-EHT80: 5985 ~ 7025MHz For 802.11ax-HE160/be-EHT160: 6025 ~ 6985MHz For 802.11be-EHT320: 6105 ~ 6905MHz	
Type of Modulation	802.11ax/be: OFDMA	
Data Rate	802.11ax: up to 4804Mbps 802.11be: up to 11529.6Mbps	
Channel Puncturing Function	☐ Supported	☒ Unsupported
Support RU	☒ Full RU	☐ Partial RU

Note: For other features of this EUT, test report will be issued separately.

2.3. Working Frequencies

802.11ax-HE20/be-EHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz
25	6075 MHz	29	6095 MHz	33	6115 MHz
37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz
73	6315 MHz	77	6335 MHz	81	6355 MHz
85	6375 MHz	89	6395 MHz	93	6415 MHz
97	6435 MHz	101	6455 MHz	105	6475 MHz
109	5495 MHz	113	6515 MHz	117	6535 MHz
121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz
145	6675 MHz	149	6695 MHz	153	6715 MHz
157	6735 MHz	161	6755 MHz	165	6775 MHz
169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	185	6875 MHz	189	6895 MHz
193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz
225	7075 MHz	229	7095 MHz	--	--

802.11ax-HE40/be-EHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz
27	6085 MHz	35	6125 MHz	43	6165 MHz
51	6205 MHz	59	6245 MHz	67	6285 MHz
75	6325 MHz	83	6365 MHz	91	6405 MHz
99	6445 MHz	107	6485 MHz	115	6525 MHz
123	6565 MHz	131	6605 MHz	139	6645 MHz
147	6685 MHz	155	6725 MHz	163	6765 MHz
171	6805 MHz	179	6845 MHz	187	6885 MHz
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz	--	--

802.11ax-HE80/be-EHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz
55	6225 MHz	71	6305 MHz	87	6385 MHz
103	6465 MHz	119	6545 MHz	135	6625 MHz
151	6705 MHz	167	6785 MHz	183	6865 MHz
199	6945 MHz	215	7025 MHz	--	--

802.11ax-HE160/be-EHT160

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz
111	6505 MHz	143	6665 MHz	175	6825 MHz
207	6985 MHz	--	--	--	--

802.11be-EHT320

Channel	Frequency	Channel	Frequency	Channel	Frequency
95	6425 MHz	63	6265 MHz	95	6425 MHz
127	6585 MHz	159	6745 MHz	191	6905 MHz

2.4. Antenna Details

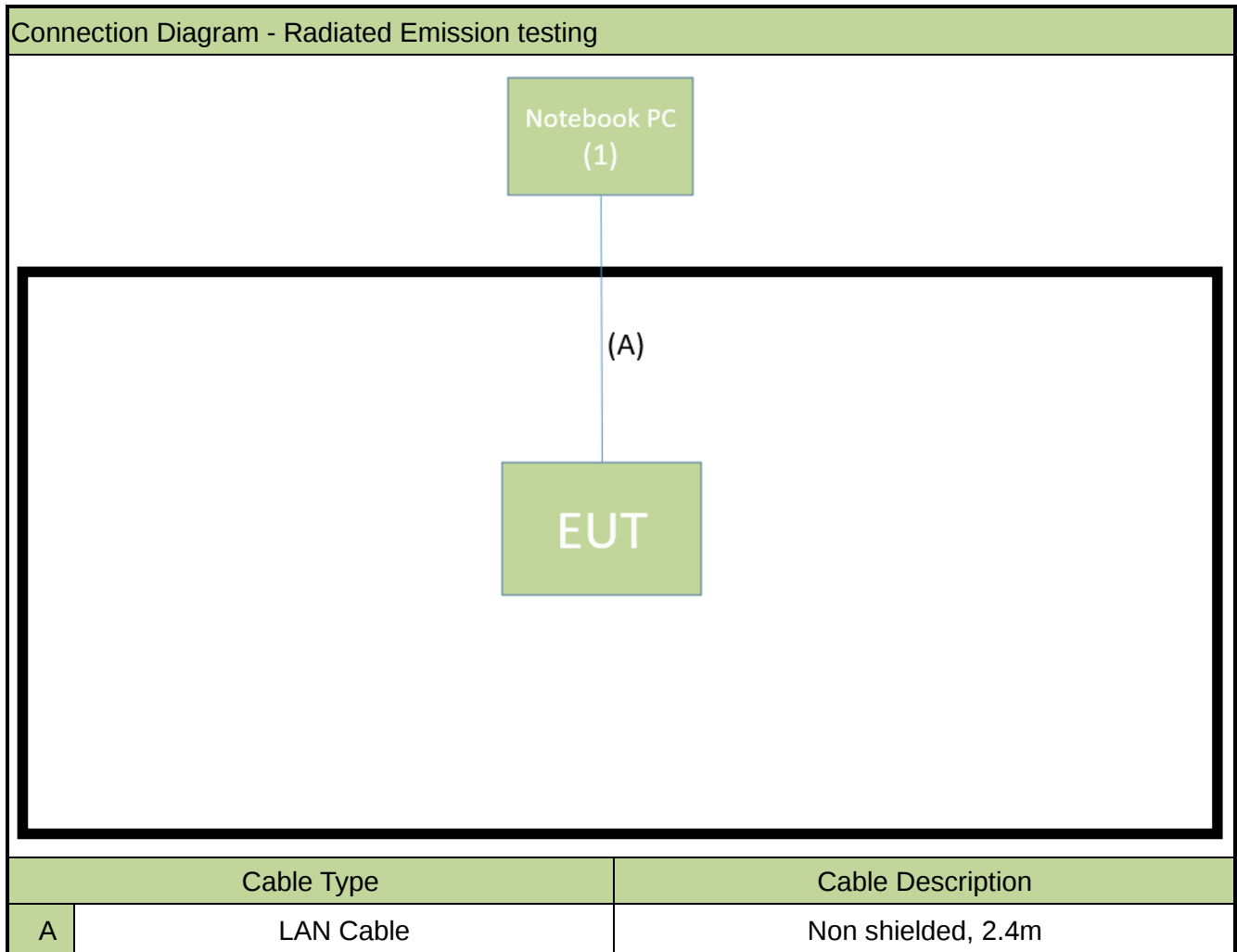
Antenna Type	Frequency Band (GHz)	Antenna Gain (dBi)				Directional Gain (dBi)	
		Ant 0	Ant 1	Ant 2	Ant 3	For Power	For PSD
Wi-Fi Internal Antenna							
PCB Antenna	2412 ~ 2462	3.80	3.62	--	--	3.80	5.43
	5180 ~ 5825	5.36	5.31	4.62	5.30	5.36	5.71
	5925 ~ 7125	5.47	4.91	5.28	5.12	5.47	5.89
Note 1: The antenna gain and directional gain refer to manufacturer's antenna specification.							
Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode for 802.11a/b/g/n/ac/ax/be.							
Note 3: Software automatically backs power down based on CDD power for beamforming operation.							

Test Mode

CDD Mode
Mode 1: Transmit by 802.11ax-HE20_Nss=1 (MCS0) (CDD mode)
Mode 2: Transmit by 802.11ax-HE40_Nss=1 (MCS0) (CDD mode)
Mode 3: Transmit by 802.11ax-HE80_Nss=1 (MCS0) (CDD mode)
Mode 4: Transmit by 802.11ax-HE160_Nss=1 (MCS0) (CDD mode)
Mode 5: Transmit by 802.11be-EHT20_Nss=1 (MCS0) (CDD mode)
Mode 6: Transmit by 802.11be-EHT40_Nss=1 (MCS0) (CDD mode)
Mode 7: Transmit by 802.11be-EHT80_Nss=1 (MCS0) (CDD mode)
Mode 8: Transmit by 802.11be-EHT160_Nss=1 (MCS0) (CDD mode)
Mode 9: Transmit by 802.11be-EHT320_Nss=1 (MCS0) (CDD mode)
Remark: - For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. - EUT supports one configuration only in 802.11ax/be full RU mode.

2.6. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.7. Test System Details

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	21DH00A3TW	N/A	Non-Shielded, 0.8m

2.8. Test Software

The test utility software used during testing was “accessMTool.exe”, and the version was 3.3.0.6.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

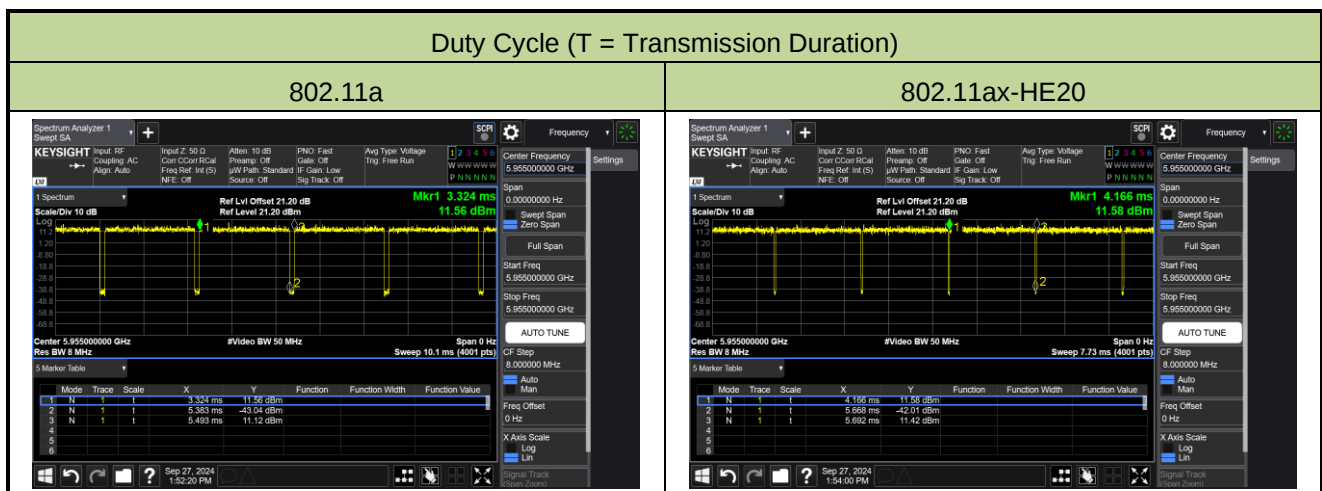
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.10-2013
- FCC KDB 789033 D02v02r01
- FCC KDB 987594 D02v02r01
- FCC KDB 987594 D04v02
- FCC KDB 662911 D01v02r01
- FCC KDB 414788 D01v01r01
- FCC KDB 412172 D01v01r01

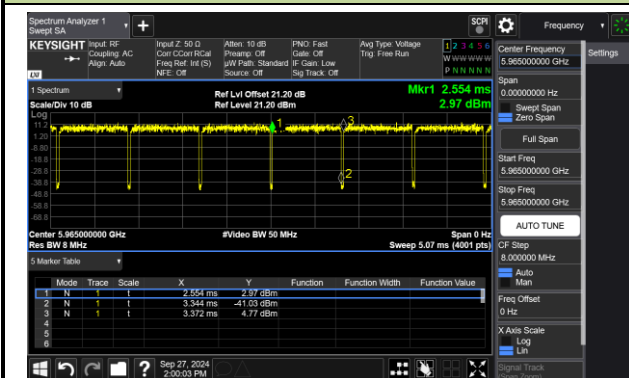
2.10. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11a	94.93%
802.11ax-HE20	98.43%
802.11ax-HE40	96.87%
802.11ax-HE80	92.90%
802.11ax-HE160	88.88%
802.11be-EHT20	97.78%
802.11be-EHT40	96.06%
802.11be-EHT80	93.42%
802.11be-EHT160	88.43%
802.11be-EHT320	83.51%



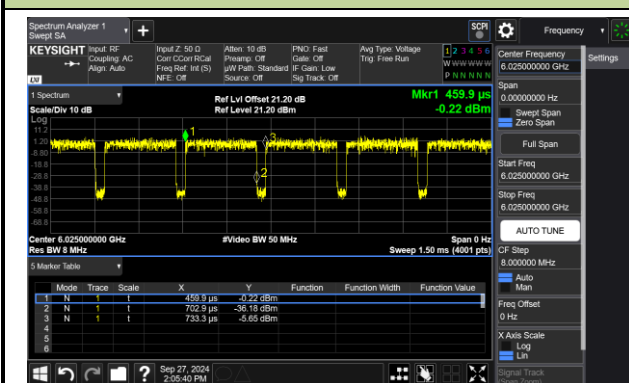
802.11ax-HE40



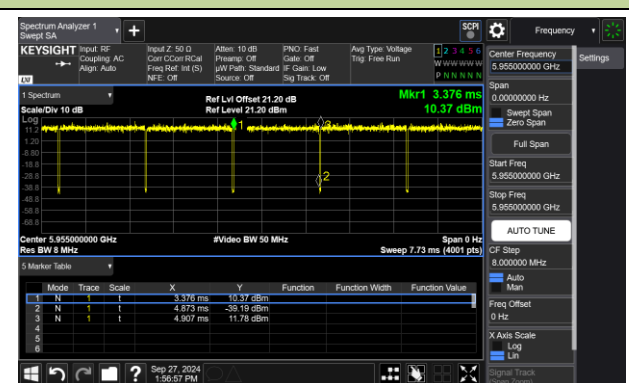
802.11ax-HE80



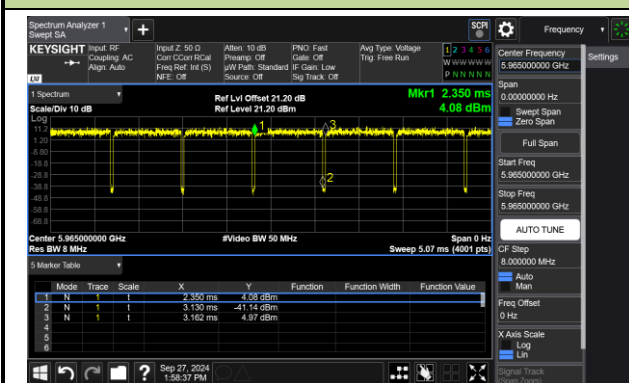
802.11ax-HE160



802.11be-EHT20



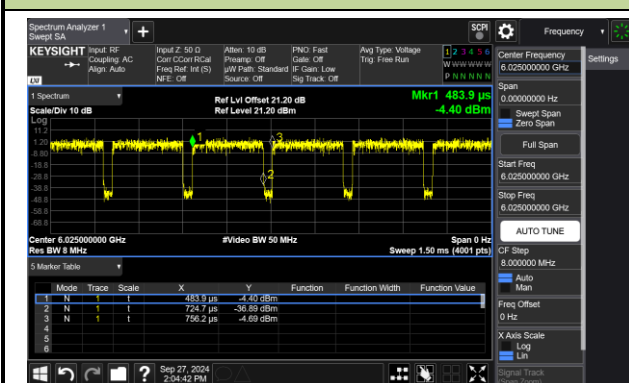
802.11be-EHT40



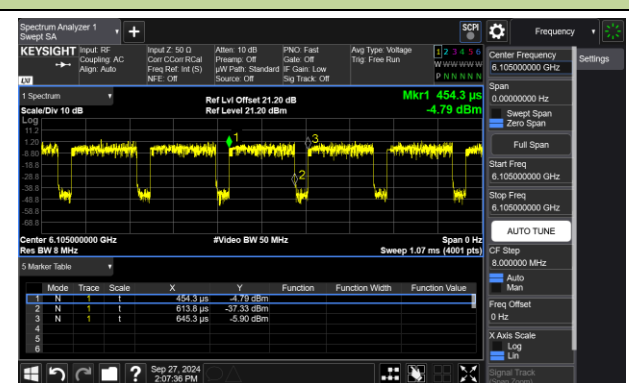
802.11be-EHT80



802.11be-EHT160



802.11be-EHT320



2.11. Test Environment Condition

Ambient Temperature	15°C~35°C
Relative Humidity	20%RH ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

The antenna of the device is built in and locked inside the enclosure.

Conclusion:

The device complies with the requirement of §15.407(a)(9).

4. Measuring Instrument

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2025/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2025/4/21
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2025/5/14

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2025/5/7
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00086	1 year	2025/11/5
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2025/5/20
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2025/5/14
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/6/20
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2025/6/25
Cable	HUBERSUHNER	EMC105-NM-N M-3000	MRTTWE00035	1 year	2025/6/25
Temperature/Humidity Meter	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2025/4/16
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2025/3/12
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2025/9/24
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2025/8/12
Vector Signal Generator	KEYSIGHT	N5182B	MRTTWA00010	1 year	2025/5/21
EXA Analog Signal Generator	KEYSIGHT	N5173B	MRTTWA00072	1 year	2025/5/21
Programmable Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2025/6/6

Software	Version	Function
e3	9.160520a	EMI Test Software

5. Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 3.3\%$
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C} / \pm 3\%$
Frequency Error
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.407(a)	26dB Bandwidth	Conducted	Pass
15.407(a)(5), (a)(6)	Maximum Equivalent Isotropically Radiated Power (E.I.R.P)	Radiated	Pass
15.407(a)(5), (a)(6)	Peak Power Spectral Density (E.I.R.P)		Pass
15.407(b)(6)	In-Band Emission	Conducted	Pass
15.407(g)	Frequency Stability		Pass
15.407(d)(6)	Contention-Based Protocol		Pass
15.407(b)(5)	Unwanted Emissions	Radiated	Pass
15.407(b)(7), (8), (9)	General Field Strength (Restricted Bands and Radiated Emission)		Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Remark:

- Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- Output power test was verified over all data rates of each mode (data refers to operational description), and then choose the maximum power output (low data rate) for final test of each channel.
- For radiated emission test, the test results shown in the following sections represent the worst-case emissions.
- EUT supports one configuration only in 802.11ax/be full RU mode.

6.2. 26dB Bandwidth

6.2.1. Test Limit

N/A

6.2.2. Test Procedure used

KDB 789033 D02v02r01- Section C.1 (26dB Bandwidth)

KDB 789033 D02v02r01- Section D (99% Bandwidth)

6.2.3. Test Setting

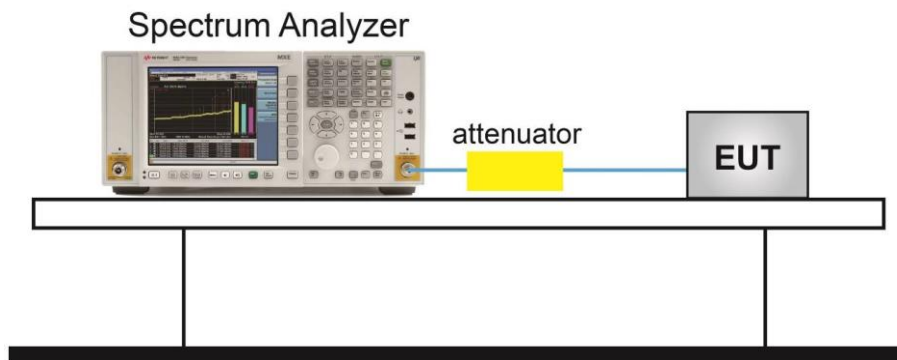
26dB Bandwidth

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

99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW $\geq 3 \times$ RBW
5. Detector = Peak.
6. Use the 99% power bandwidth function of the instrument.

6.2.4. Test Setup



6.2.5. Test Result

Test Site	SR5	Test Engineer	Owen
Test Date	2024/10/14		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a	MCS0	1	5955	21.400	16.792
802.11a	MCS0	49	6195	21.050	16.876
802.11a	MCS0	93	6415	21.330	16.811
802.11a	MCS0	97	6435	21.210	16.889
802.11a	MCS0	105	6475	21.310	16.752
802.11a	MCS0	113	6515	21.310	16.819
802.11a	MCS0	117	6535	21.410	16.857
802.11a	MCS0	149	6695	21.040	16.813
802.11a	MCS0	181	6855	21.250	16.868
802.11a	MCS0	185	6875	21.340	16.823
802.11a	MCS0	189	6895	21.220	16.852
802.11a	MCS0	209	6995	21.250	16.884
802.11a	MCS0	229	7095	21.270	16.773
802.11ax-HE20	MCS0	1	5955	21.060	19.157
802.11ax-HE20	MCS0	49	6195	21.280	19.075
802.11ax-HE20	MCS0	93	6415	21.380	19.080
802.11ax-HE20	MCS0	97	6435	21.900	19.036
802.11ax-HE20	MCS0	105	6475	21.230	19.059
802.11ax-HE20	MCS0	113	6515	21.200	19.033
802.11ax-HE20	MCS0	117	6535	21.280	19.055
802.11ax-HE20	MCS0	149	6695	21.430	19.061
802.11ax-HE20	MCS0	181	6855	21.430	19.073
802.11ax-HE20	MCS0	185	6875	21.450	19.111
802.11ax-HE20	MCS0	189	6895	21.470	19.085
802.11ax-HE20	MCS0	209	6995	21.280	19.034
802.11ax-HE20	MCS0	229	7095	21.560	19.087

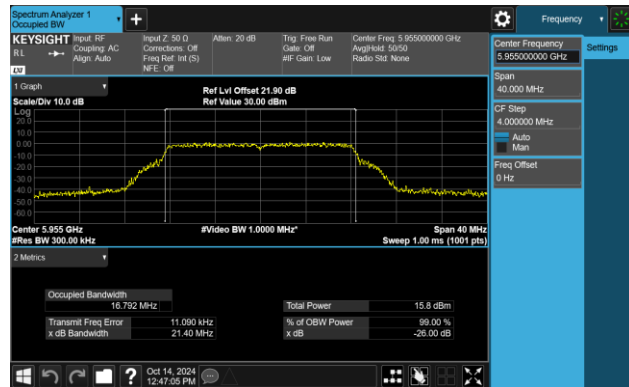
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11ax-HE40	MCS0	3	5965	40.040	37.702
802.11ax-HE40	MCS0	51	6205	39.930	37.647
802.11ax-HE40	MCS0	91	6405	40.280	37.783
802.11ax-HE40	MCS0	99	6445	40.030	37.766
802.11ax-HE40	MCS0	107	6485	39.930	37.846
802.11ax-HE40	MCS0	115	6525	40.220	37.816
802.11ax-HE40	MCS0	123	6565	40.180	37.715
802.11ax-HE40	MCS0	147	6685	39.640	37.702
802.11ax-HE40	MCS0	179	6845	39.870	37.683
802.11ax-HE40	MCS0	187	6885	40.020	37.752
802.11ax-HE40	MCS0	195	6925	39.810	37.790
802.11ax-HE40	MCS0	211	7005	40.160	37.817
802.11ax-HE40	MCS0	227	7085	39.950	37.765
802.11ax-HE80	MCS0	7	5985	81.190	76.970
802.11ax-HE80	MCS0	55	6225	82.180	77.315
802.11ax-HE80	MCS0	87	6385	81.970	77.368
802.11ax-HE80	MCS0	103	6465	81.400	77.249
802.11ax-HE80	MCS0	119	6545	81.690	77.078
802.11ax-HE80	MCS0	135	6625	80.160	76.983
802.11ax-HE80	MCS0	151	6705	81.120	77.233
802.11ax-HE80	MCS0	167	6785	81.810	77.112
802.11ax-HE80	MCS0	183	6865	82.030	77.190
802.11ax-HE80	MCS0	199	6945	81.530	77.198
802.11ax-HE80	MCS0	215	7025	82.360	77.229
802.11ax-HE160	MCS0	15	6025	162.700	156.250
802.11ax-HE160	MCS0	47	6185	162.600	156.840
802.11ax-HE160	MCS0	79	6345	162.000	156.510
802.11ax-HE160	MCS0	111	6505	162.800	156.550
802.11ax-HE160	MCS0	143	6665	162.800	156.820
802.11ax-HE160	MCS0	175	6825	162.300	156.500
802.11ax-HE160	MCS0	207	6985	163.300	156.890

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11be-EHT20	MCS0	1	5955	21.370	19.078
802.11be-EHT20	MCS0	49	6195	21.420	19.109
802.11be-EHT20	MCS0	61	6255	21.490	19.093
802.11be-EHT20	MCS0	93	6415	21.480	19.193
802.11be-EHT20	MCS0	97	6435	21.580	19.143
802.11be-EHT20	MCS0	105	6475	21.380	19.069
802.11be-EHT20	MCS0	113	6515	21.680	19.163
802.11be-EHT20	MCS0	117	6535	21.350	19.069
802.11be-EHT20	MCS0	149	6695	21.590	19.081
802.11be-EHT20	MCS0	181	6855	21.410	19.065
802.11be-EHT20	MCS0	185	6875	21.620	19.140
802.11be-EHT20	MCS0	189	6895	21.220	19.049
802.11be-EHT20	MCS0	209	6995	21.630	19.077
802.11be-EHT20	MCS0	229	7095	21.330	19.065
802.11be-EHT40	MCS0	3	5965	40.420	37.743
802.11be-EHT40	MCS0	51	6205	39.860	37.697
802.11be-EHT40	MCS0	91	6405	39.950	37.745
802.11be-EHT40	MCS0	99	6445	40.000	37.797
802.11be-EHT40	MCS0	107	6485	40.080	37.671
802.11be-EHT40	MCS0	115	6525	40.010	37.814
802.11be-EHT40	MCS0	123	6565	40.040	37.742
802.11be-EHT40	MCS0	147	6685	40.040	37.835
802.11be-EHT40	MCS0	179	6845	40.000	37.732
802.11be-EHT40	MCS0	187	6885	40.610	37.767
802.11be-EHT40	MCS0	195	6925	40.150	37.769
802.11be-EHT40	MCS0	211	7005	40.140	37.791
802.11be-EHT40	MCS0	227	7085	40.450	37.720

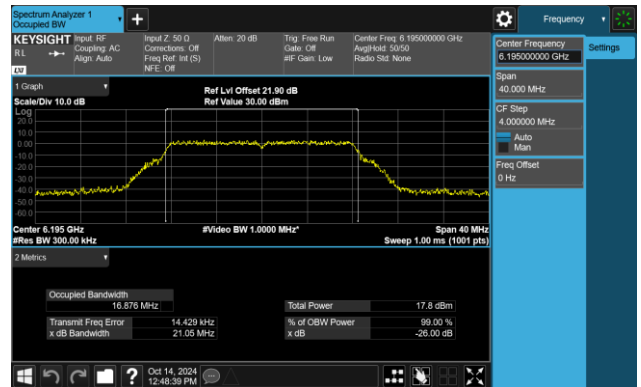
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11be-EHT80	MCS0	7	5985	81.940	77.049
802.11be-EHT80	MCS0	55	6225	81.360	77.224
802.11be-EHT80	MCS0	87	6385	81.240	77.420
802.11be-EHT80	MCS0	103	6465	81.630	77.230
802.11be-EHT80	MCS0	119	6545	81.590	77.112
802.11be-EHT80	MCS0	135	6625	81.270	77.165
802.11be-EHT80	MCS0	151	6705	81.320	77.205
802.11be-EHT80	MCS0	167	6785	81.450	77.180
802.11be-EHT80	MCS0	183	6865	81.200	77.226
802.11be-EHT80	MCS0	199	6945	81.530	77.130
802.11be-EHT80	MCS0	215	7025	81.300	77.244
802.11be-EHT160	MCS0	15	6025	162.600	156.490
802.11be-EHT160	MCS0	47	6185	162.900	156.700
802.11be-EHT160	MCS0	79	6345	162.900	156.530
802.11be-EHT160	MCS0	111	6505	162.700	156.520
802.11be-EHT160	MCS0	143	6665	162.900	156.650
802.11be-EHT160	MCS0	175	6825	163.100	156.750
802.11be-EHT160	MCS0	207	6985	164.900	156.320
802.11be-EHT320	MCS0	31	6105	326.500	315.320
802.11be-EHT320	MCS0	95	6425	327.000	316.150
802.11be-EHT320	MCS0	159	6745	326.900	315.590
802.11be-EHT320	MCS0	63	6265	327.100	316.690
802.11be-EHT320	MCS0	127	6585	326.700	315.540
802.11be-EHT320	MCS0	191	6905	326.900	315.570

802.11a 26dB Bandwidth & 99% Bandwidth

Channel 01 (5955MHz)



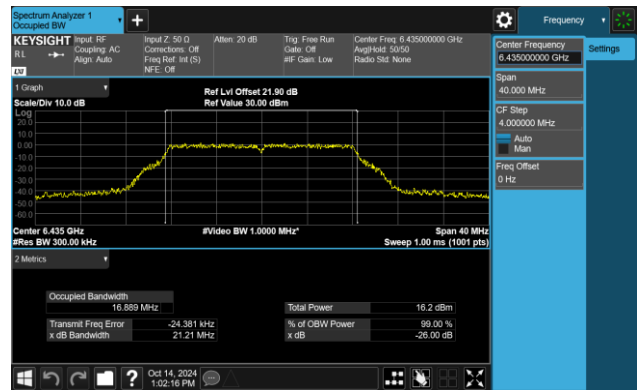
Channel 49 (6195MHz)



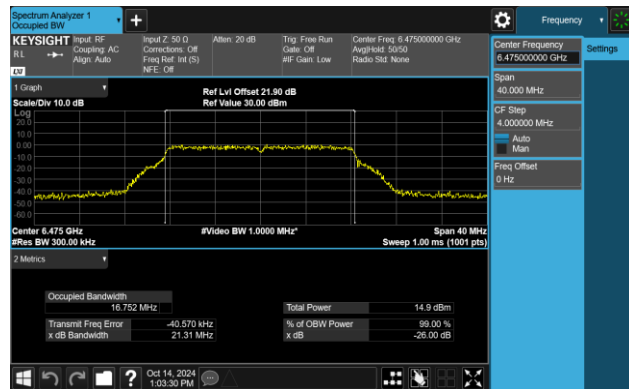
Channel 93 (6415MHz)



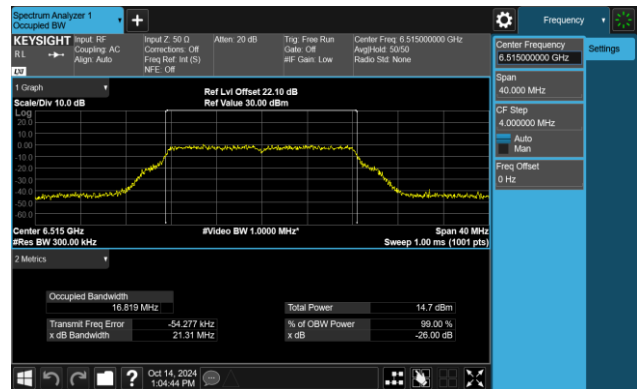
Channel 97 (6435MHz)



Channel 105 (6475MHz)



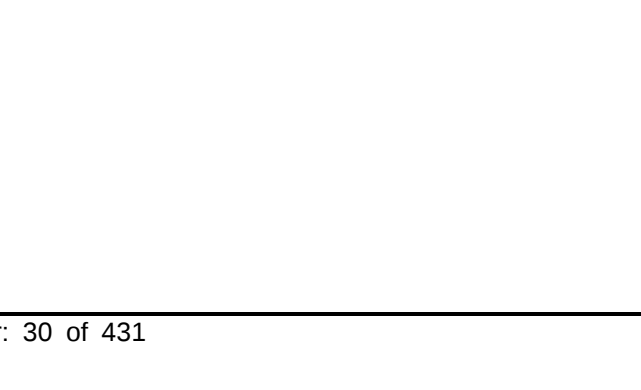
Channel 113 (6515MHz)

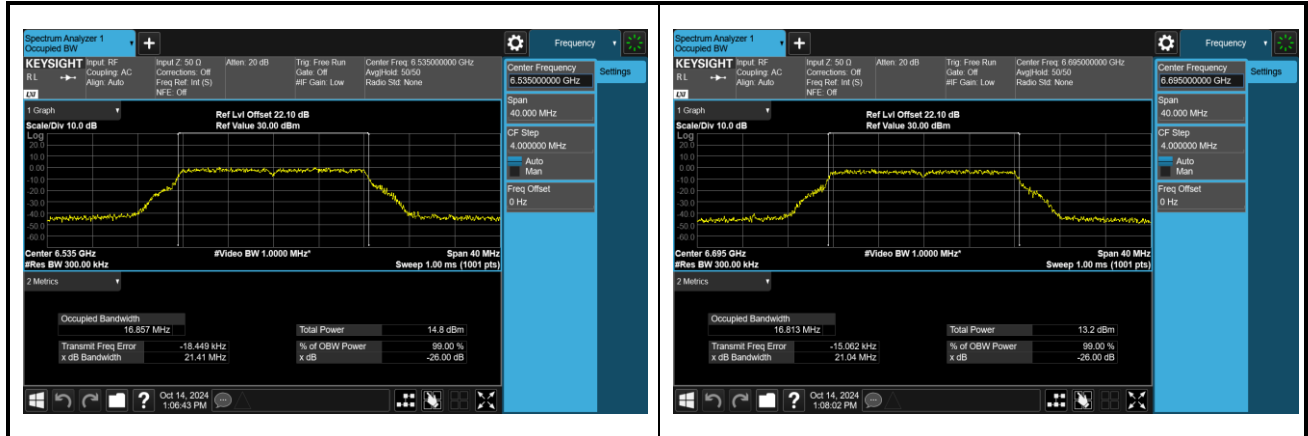


Channel 117 (6535MHz)



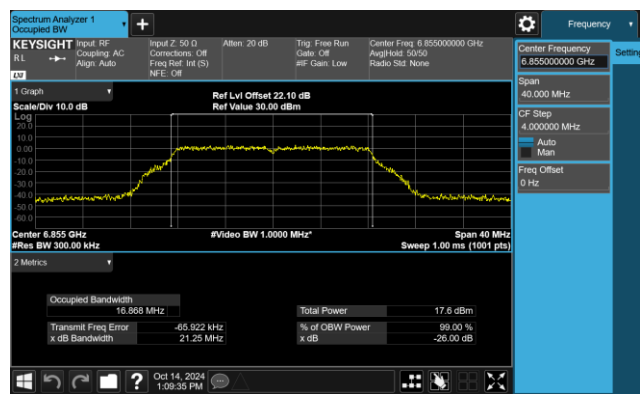
Channel 149 (6695MHz)



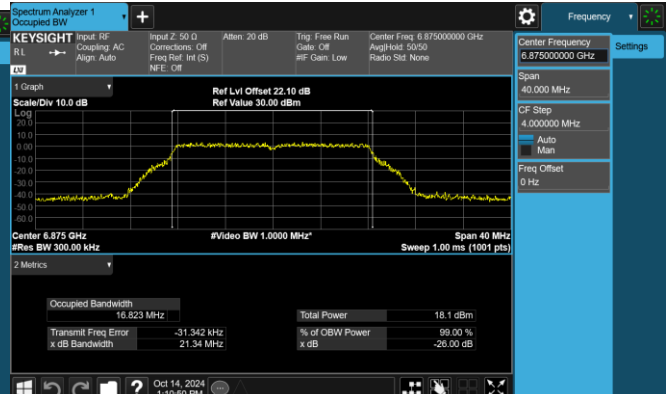


802.11a 26dB Bandwidth & 99% Bandwidth

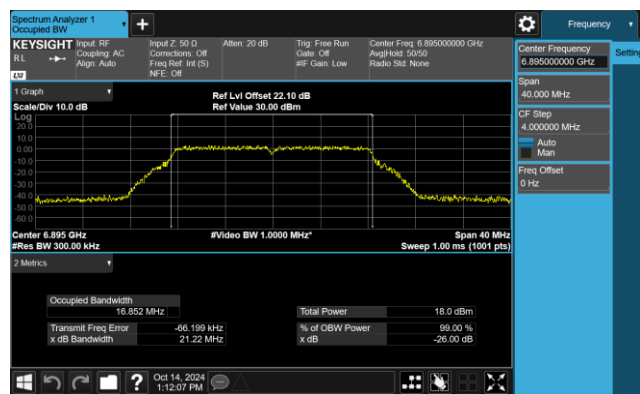
Channel 181 (6855MHz)



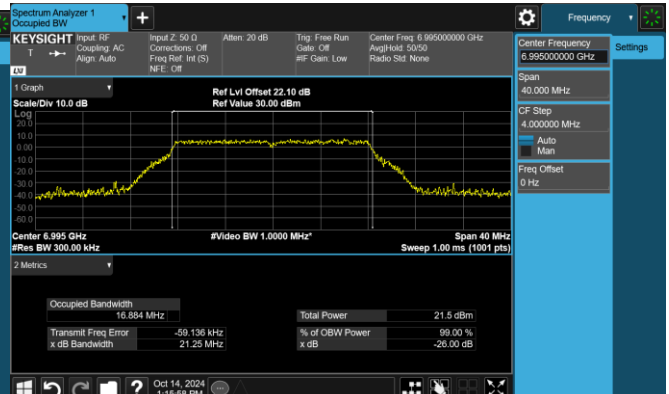
Channel 185 (6875MHz)



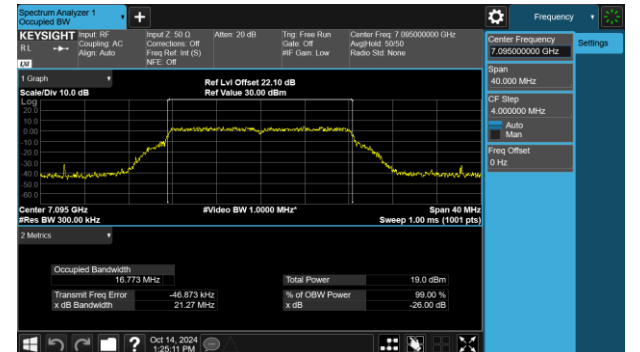
Channel 189 (6895MHz)



Channel 209 (6995MHz)

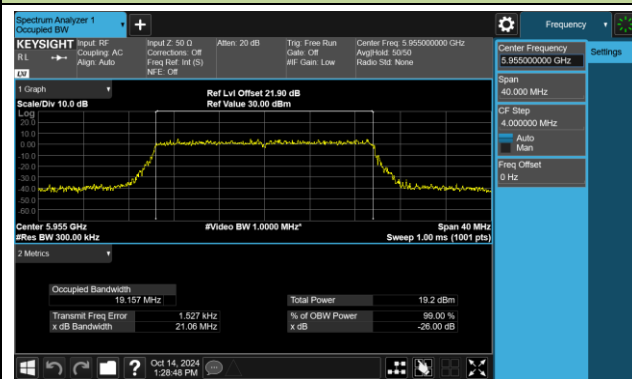


Channel 229 (7095MHz)

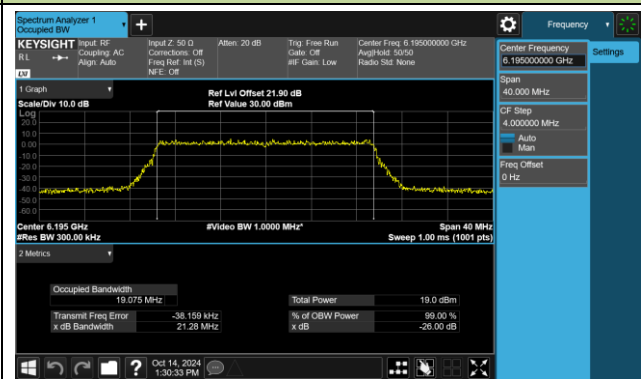


802.11ax-HE20 26dB Bandwidth & 99% Bandwidth

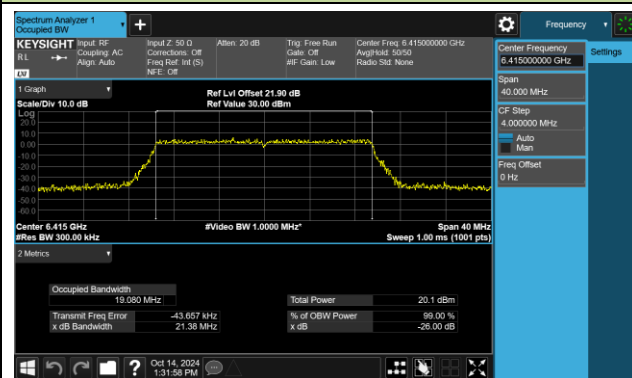
Channel 01 (5955MHz)



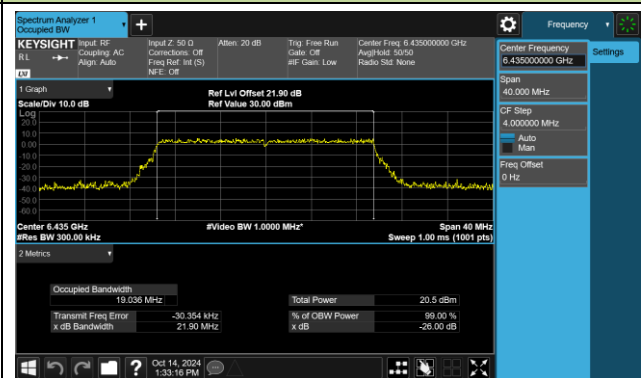
Channel 49 (6195MHz)



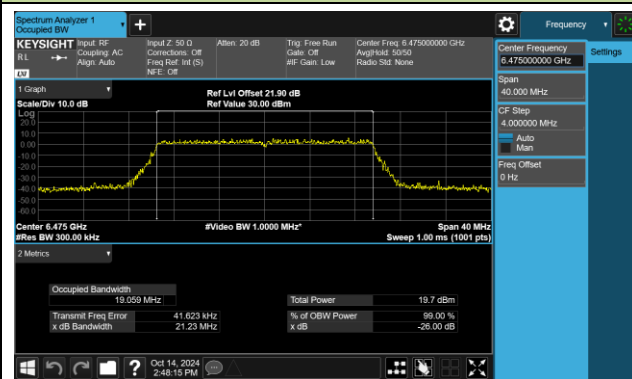
Channel 93 (6415MHz)



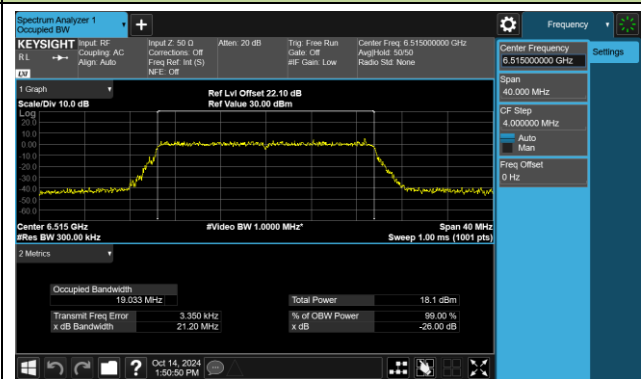
Channel 97 (6435MHz)



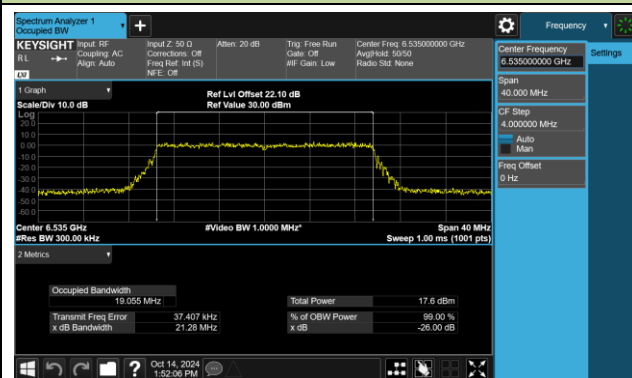
Channel 105 (6475MHz)



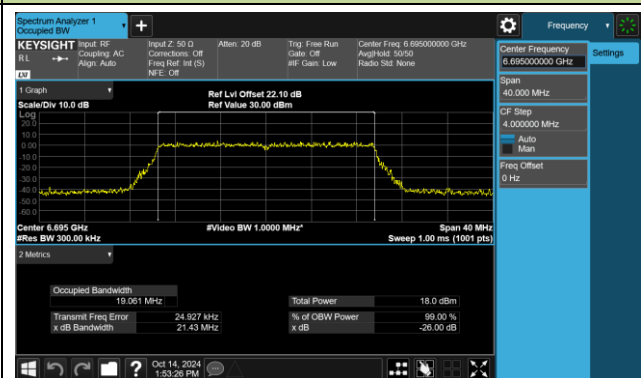
Channel 113 (6515MHz)



Channel 117 (6535MHz)

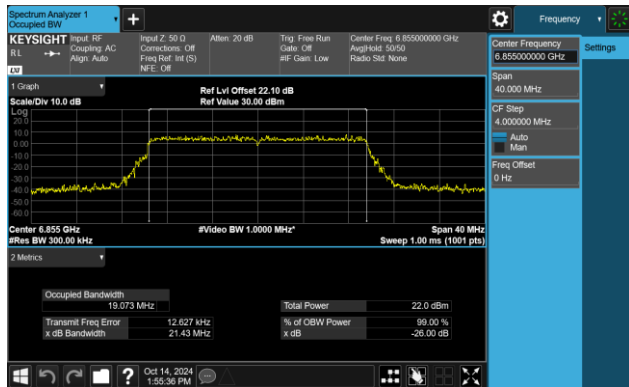


Channel 149 (6695MHz)

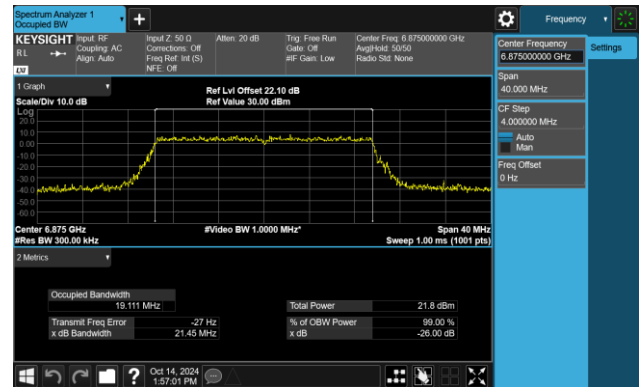


802.11ax-HE20 26dB Bandwidth & 99% Bandwidth

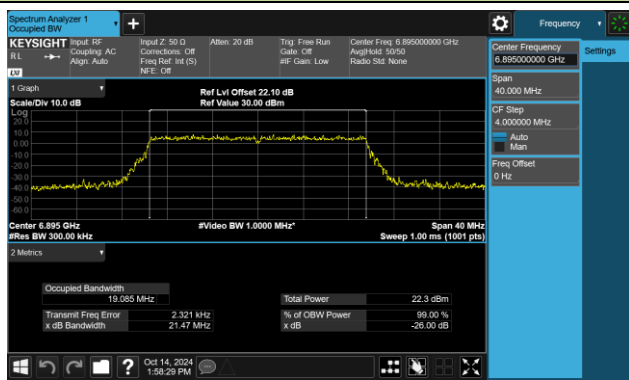
Channel 181 (6855MHz)



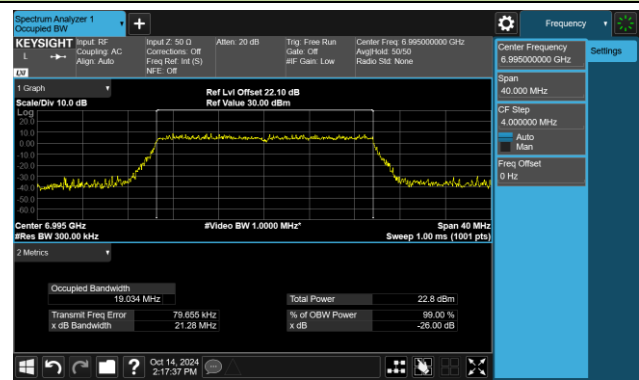
Channel 185 (6875MHz)



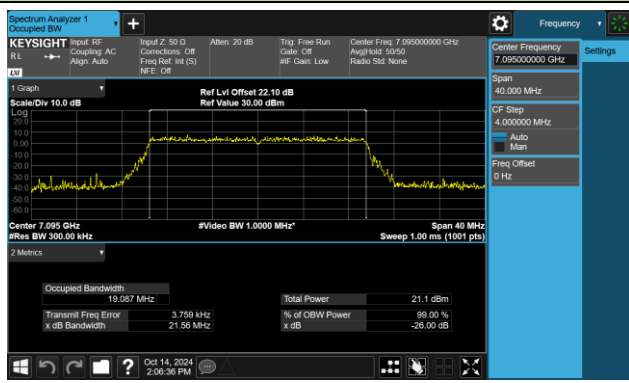
Channel 189 (6895MHz)



Channel 209 (6995MHz)

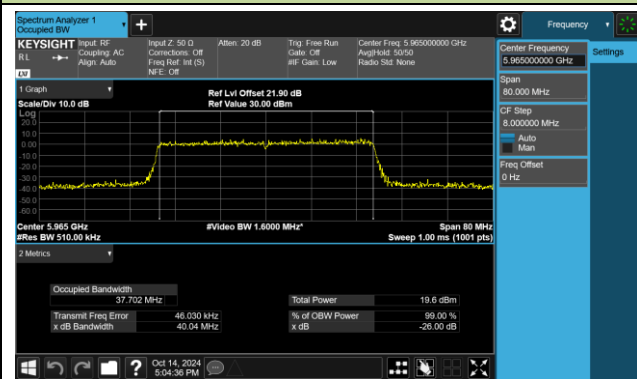


Channel 229 (7095MHz)

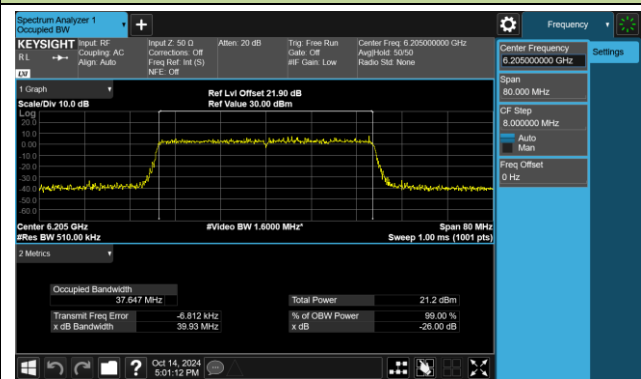


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

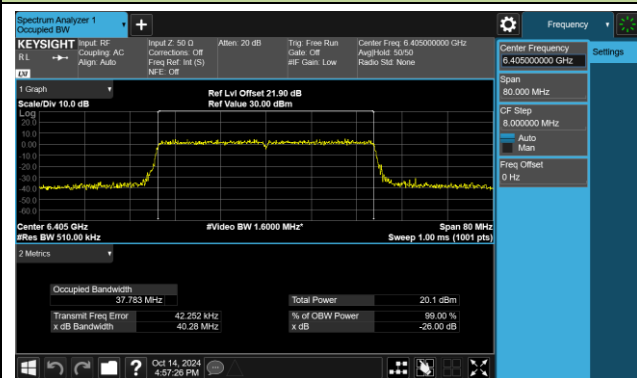
Channel 03 (5965MHz)



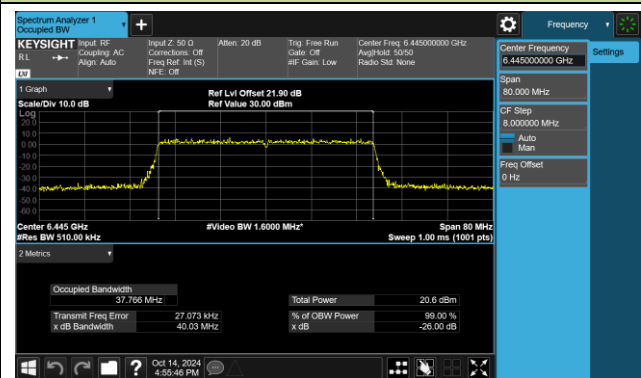
Channel 43 (6205MHz)



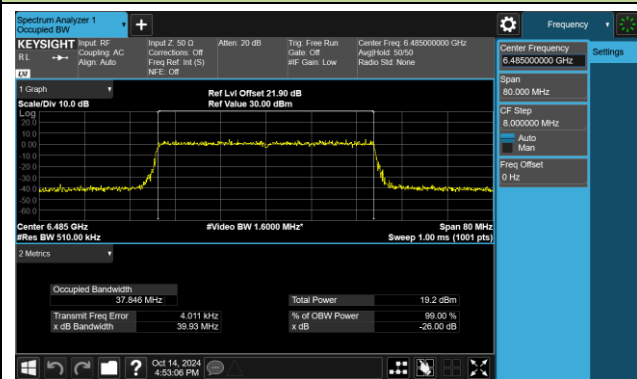
Channel 91 (6405MHz)



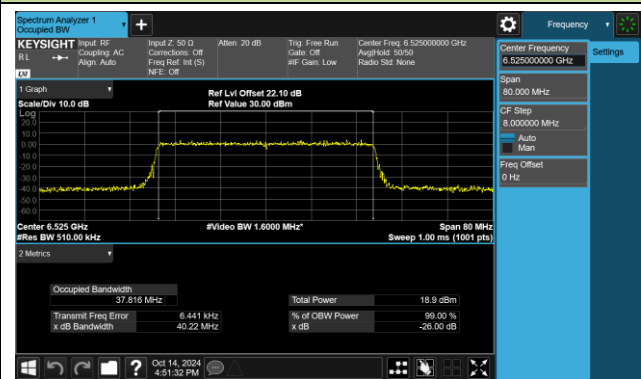
Channel 99 (6445MHz)



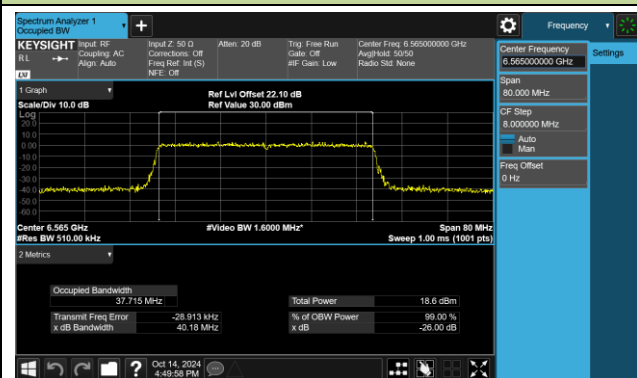
Channel 107 (6485MHz)



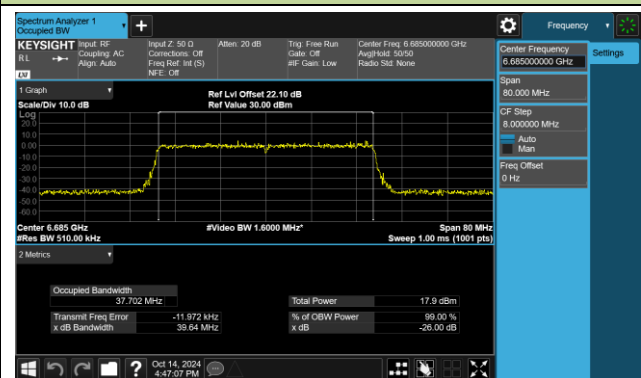
Channel 115 (6525MHz)



Channel 123 (6565MHz)

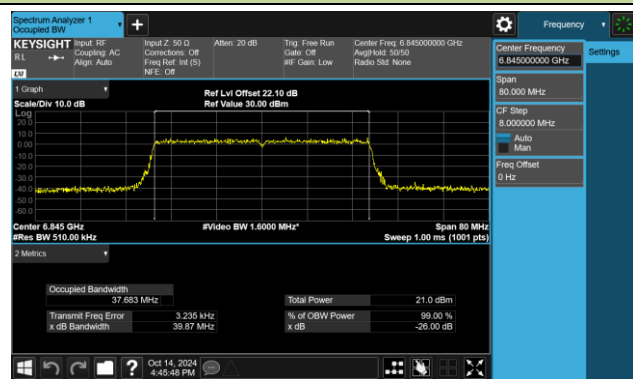


Channel 147 (6685MHz)

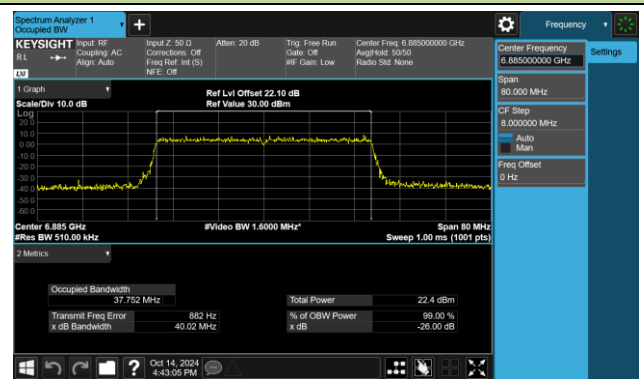


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

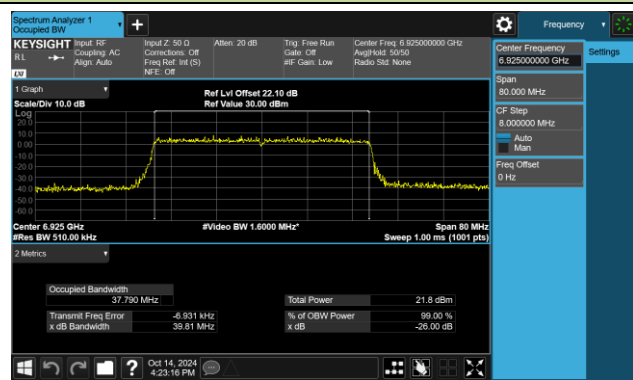
Channel 179 (6845MHz)



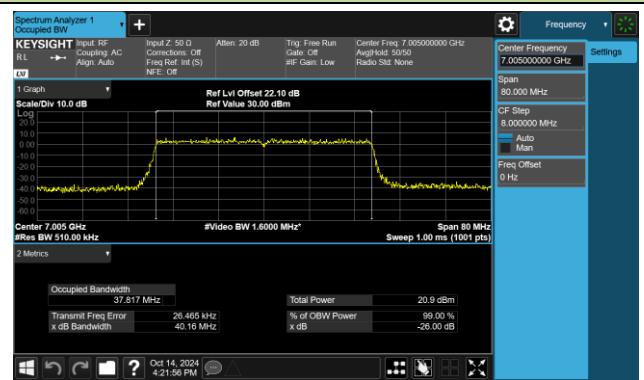
Channel 187 (6885MHz)



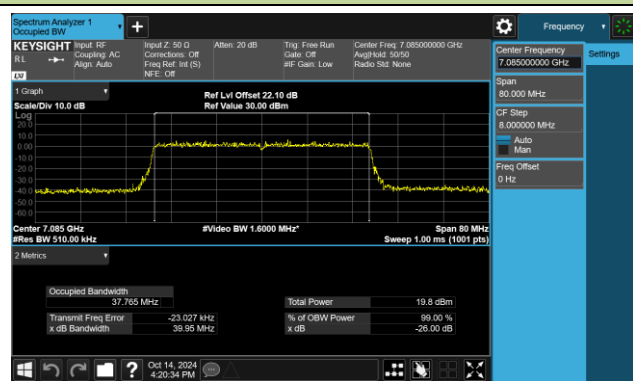
Channel 195 (6925MHz)



Channel 211 (7005MHz)

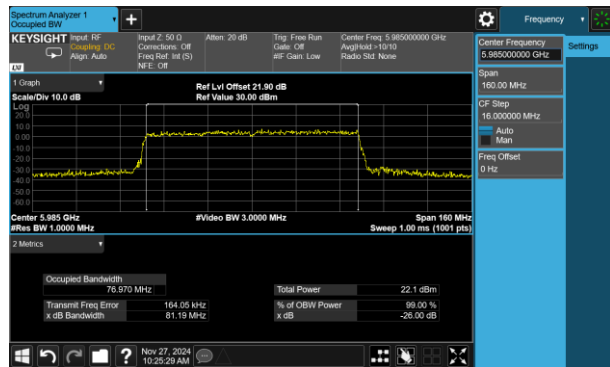


Channel 227 (7085MHz)

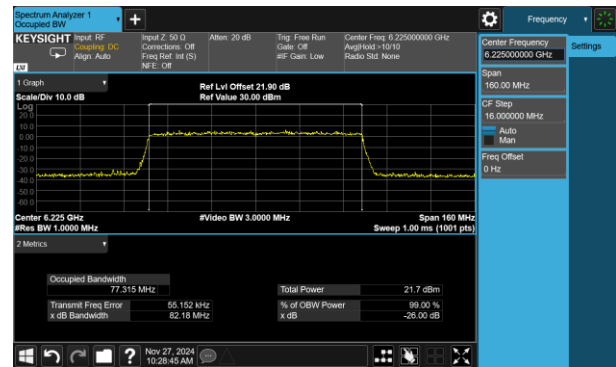


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

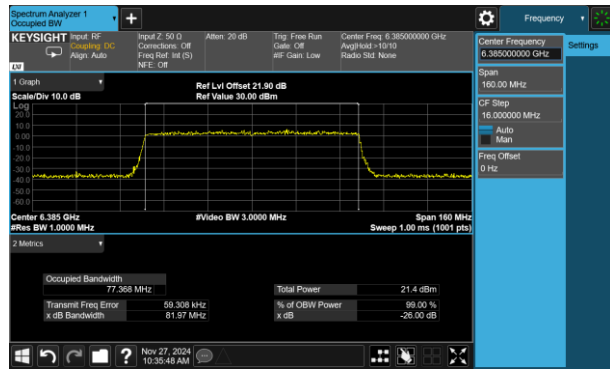
Channel 07 (5985MHz)



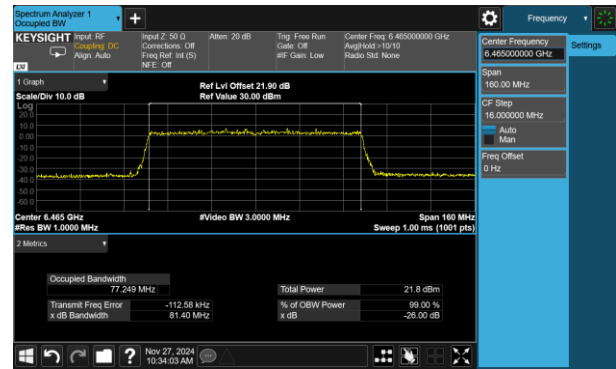
Channel 55 (6225MHz)



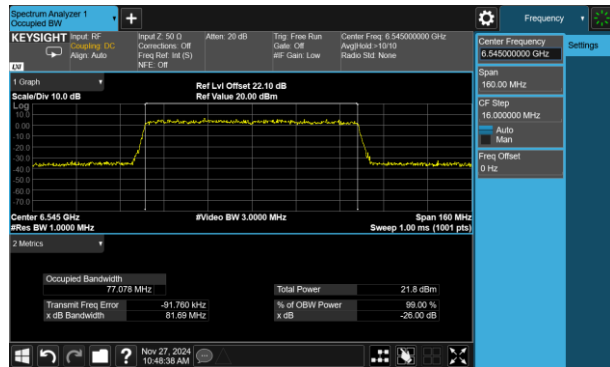
Channel 87 (6385MHz)



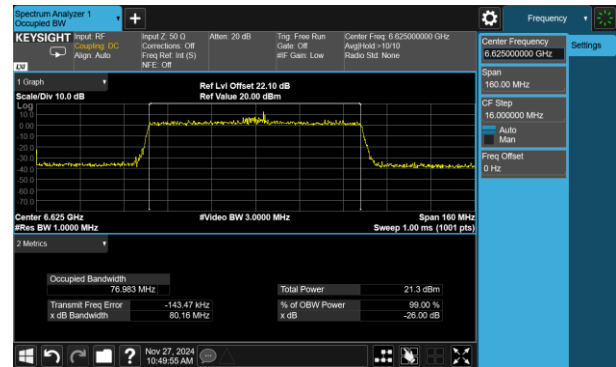
Channel 103 (6465MHz)



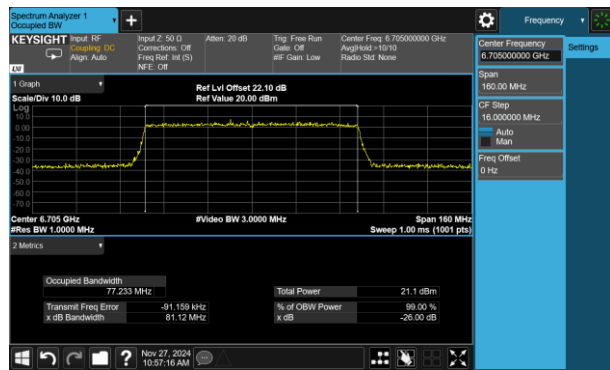
Channel 119 (6545MHz)



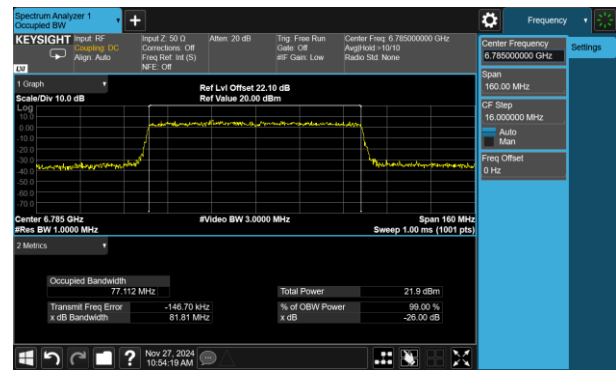
Channel 135 (6625MHz)



Channel 151 (6705MHz)

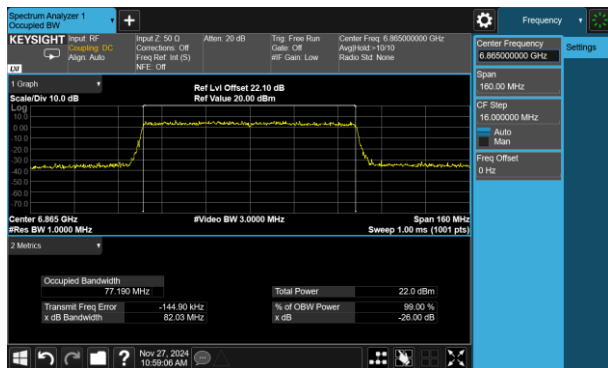


Channel 167 (6785MHz)

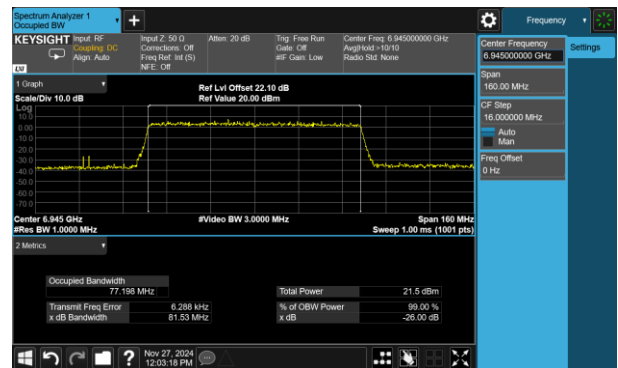


802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

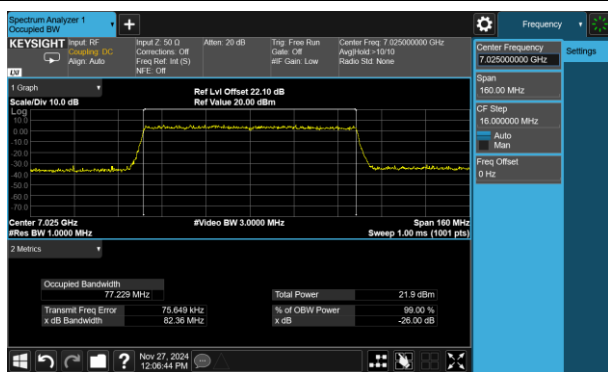
Channel 183 (6865MHz)



Channel 199 (6945MHz)

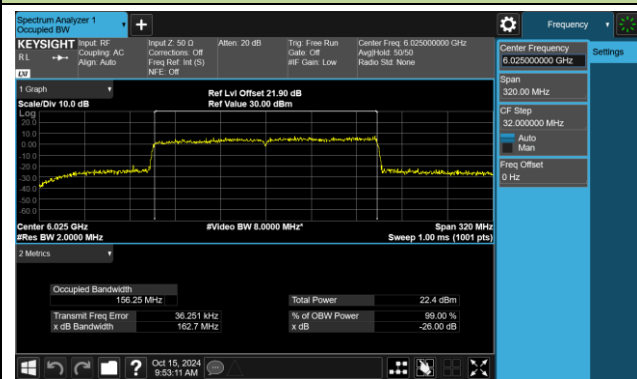


Channel 215 (7025MHz)

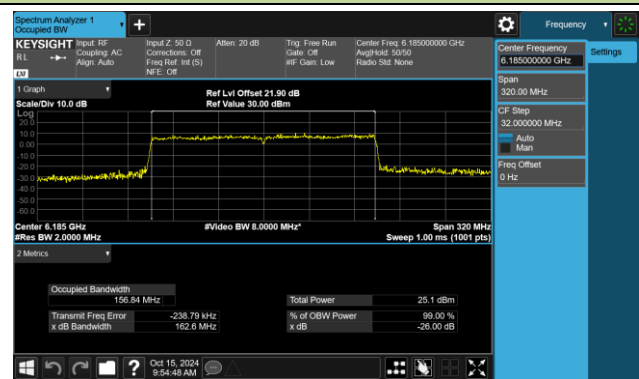


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

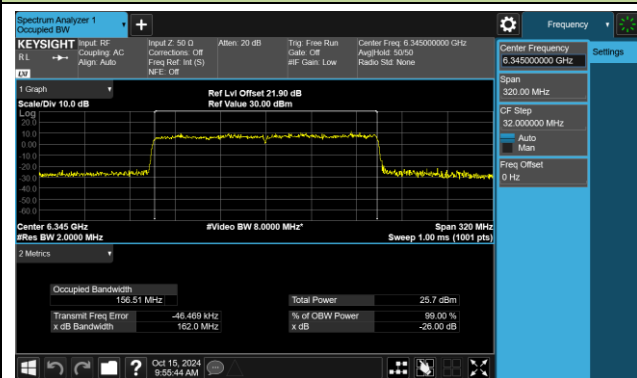
Channel 15 (6025MHz)



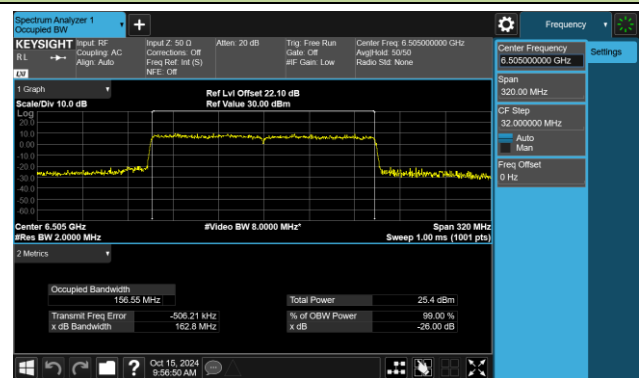
Channel 47 (6185MHz)



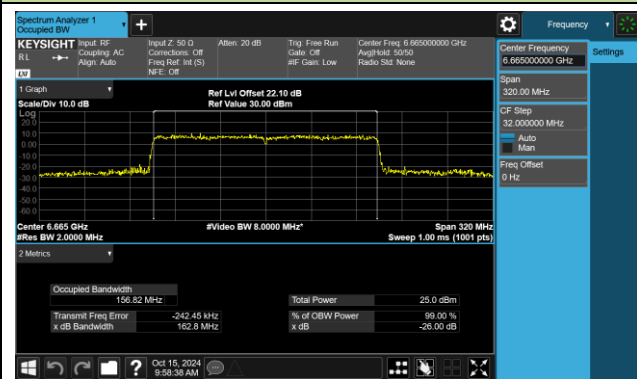
Channel 79 (6345MHz)



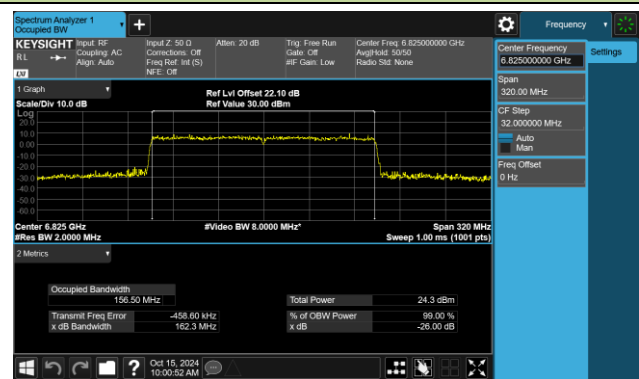
Channel 111 (6505MHz)



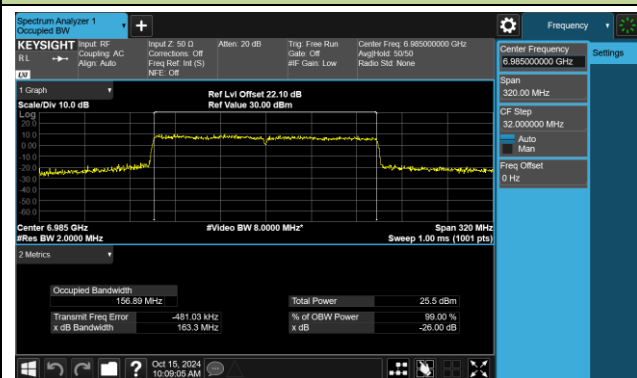
Channel 143 (6665MHz)



Channel 175 (6825MHz)

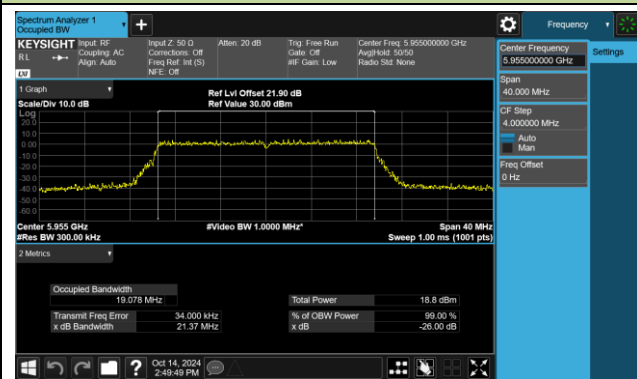


Channel 207 (6985MHz)

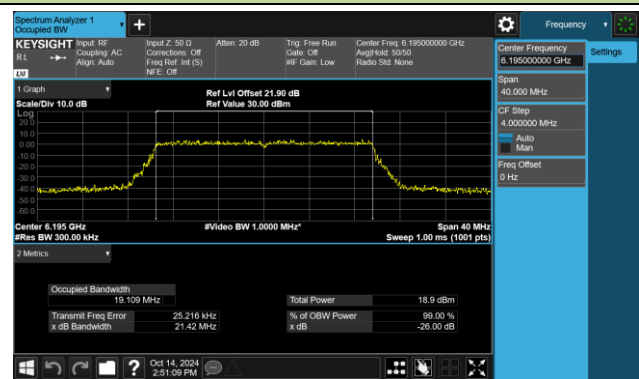


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

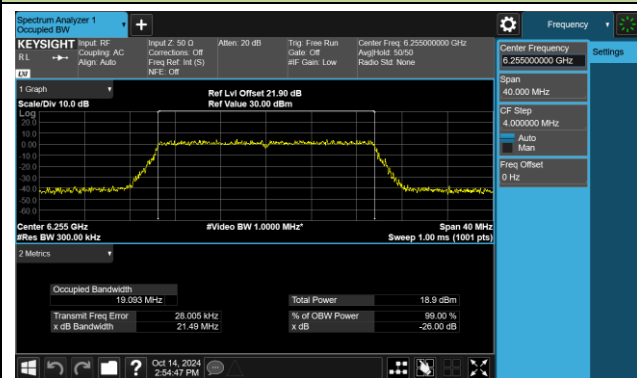
Channel 01 (5955MHz)



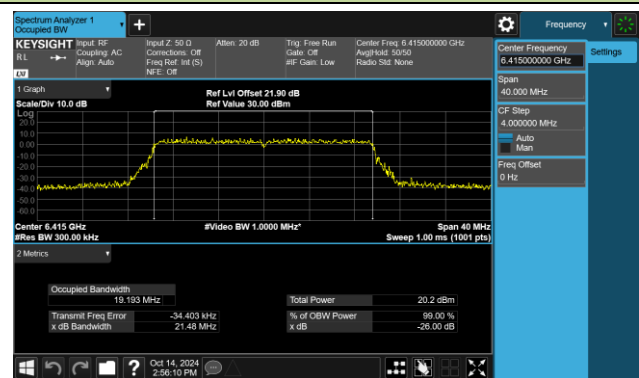
Channel 49 (6195MHz)



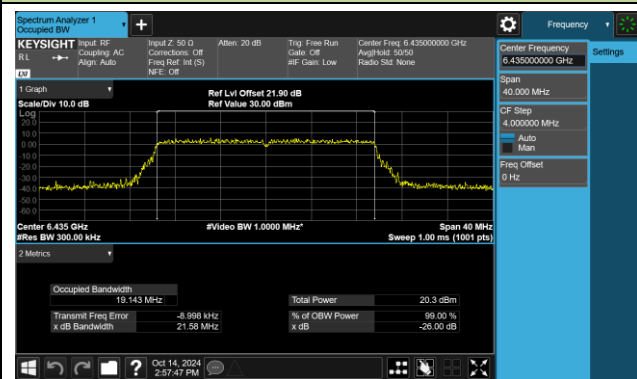
Channel 61 (6255MHz)



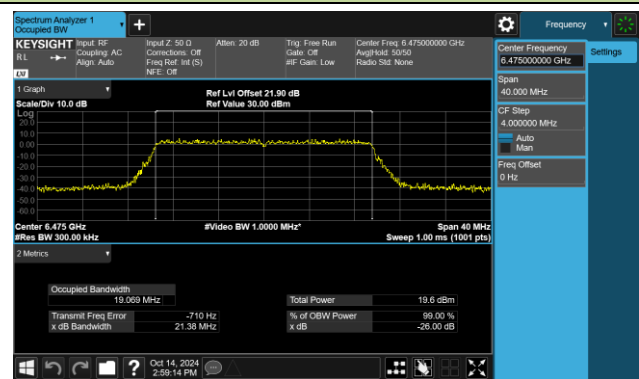
Channel 93 (6415MHz)



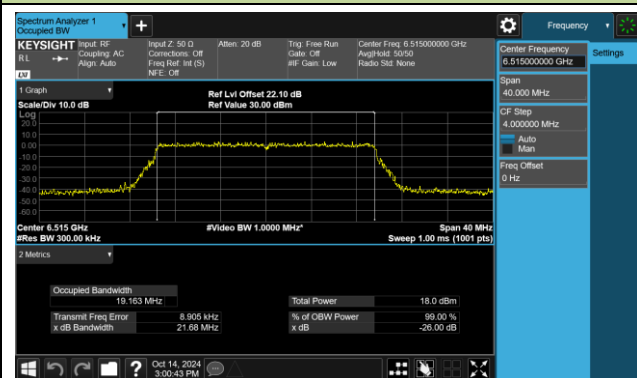
Channel 97 (6435MHz)



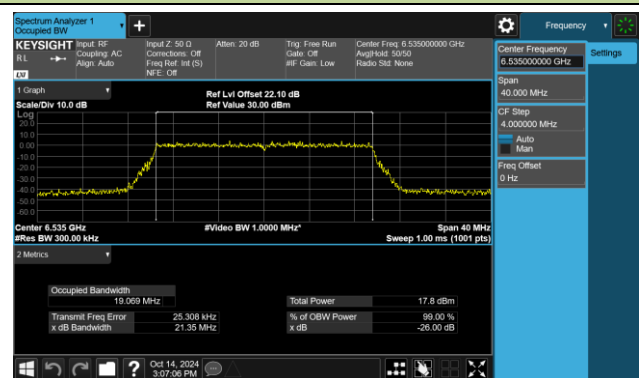
Channel 105 (6475MHz)



Channel 113 (6515MHz)

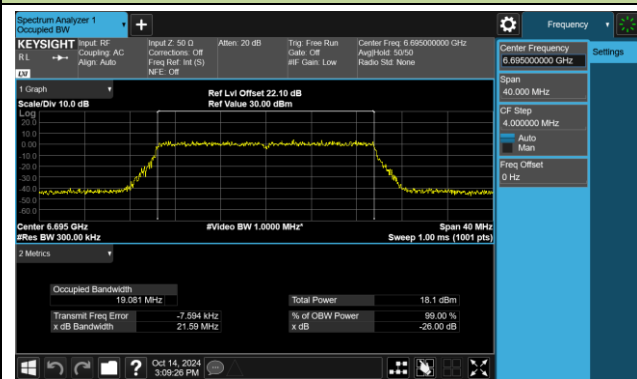


Channel 117 (6535MHz)

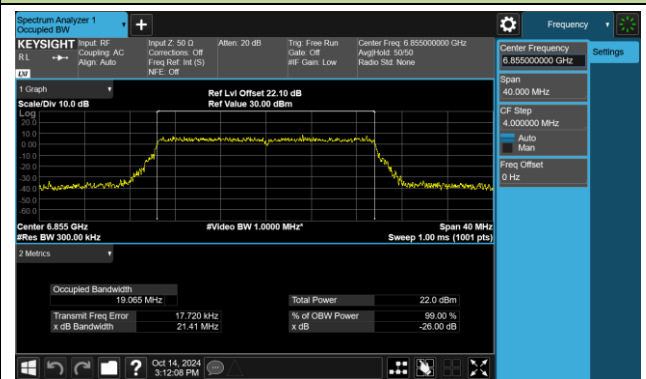


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

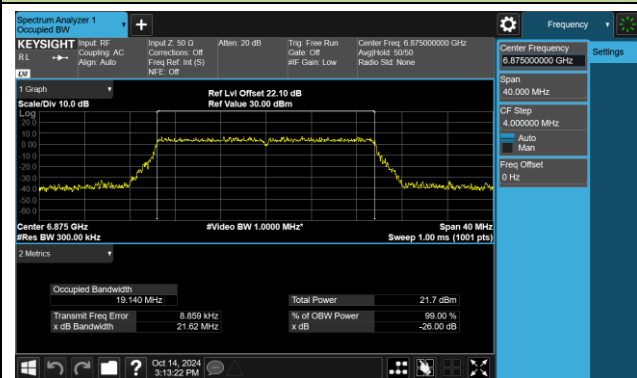
Channel 149 (6695MHz)



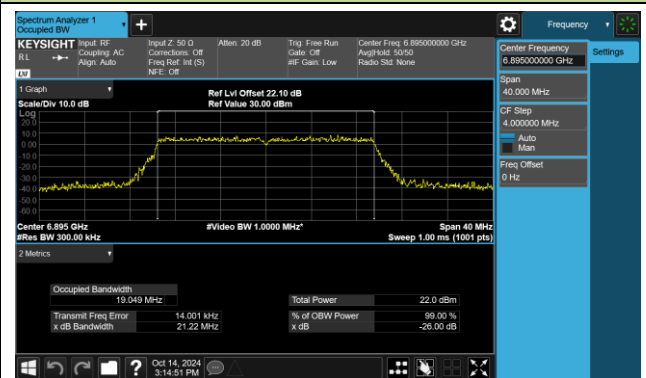
Channel 181 (6855MHz)



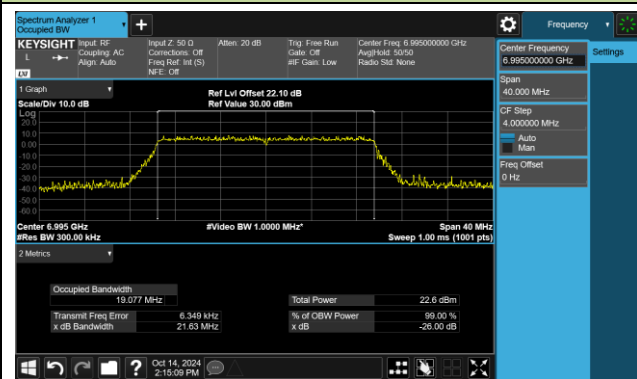
Channel 185 (6875MHz)



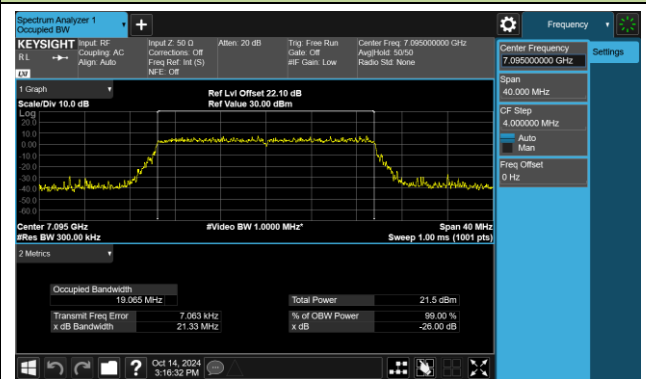
Channel 189 (6895MHz)



Channel 209 (6995MHz)

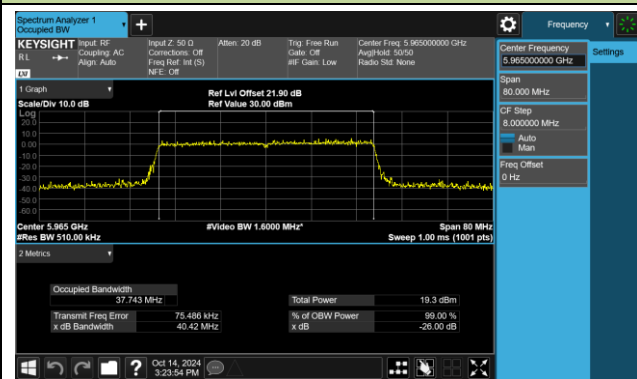


Channel 229 (7095MHz)

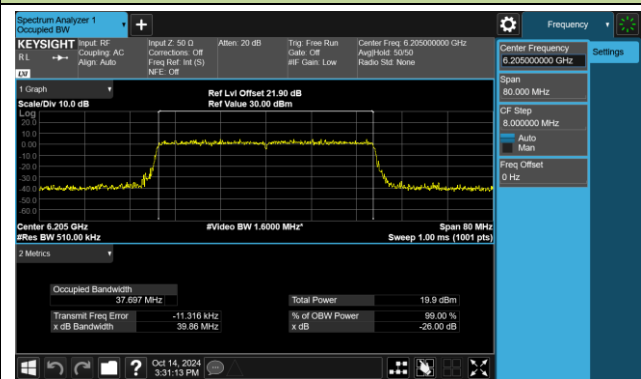


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

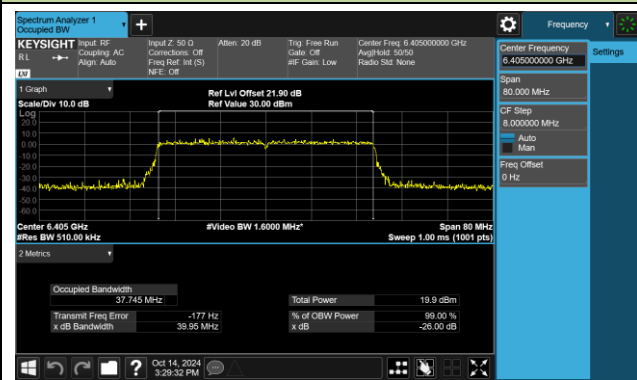
Channel 03 (5965MHz)



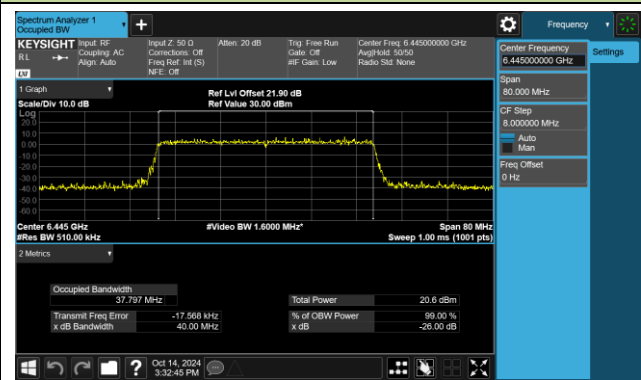
Channel 51 (6205MHz)



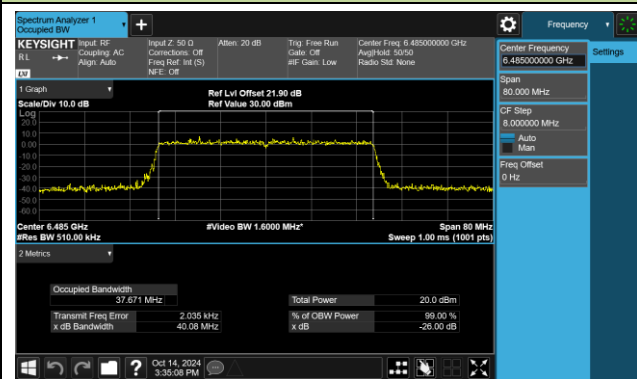
Channel 91 (6405MHz)



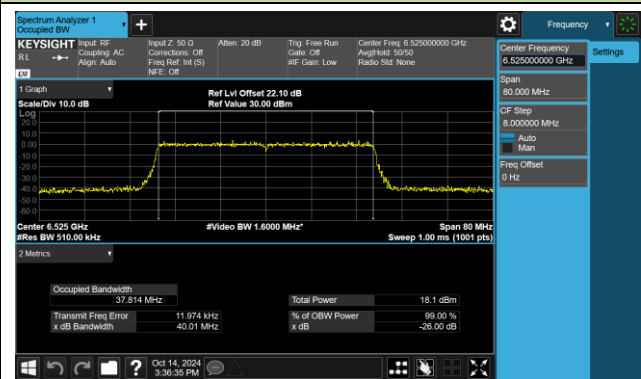
Channel 99 (6445MHz)



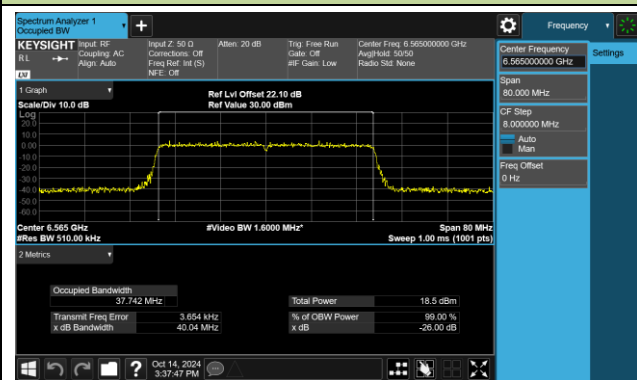
Channel 107 (6485MHz)



Channel 115 (6525MHz)



Channel 123 (6565MHz)



Channel 147 (6685MHz)

