



Mode:802.11ax HE20 Tone:52T Frequency:5180MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:52T Frequency:5220MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:52T Frequency:5240MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:52T Frequency:5180MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:52T Frequency:5220MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:52T Frequency:5240MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5180MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:106T Frequency:5220MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:106T Frequency:5240MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:106T Frequency:5180MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5220MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:106T Frequency:5240MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:242T Frequency:5180MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:242T Frequency:5220MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:242T Frequency:5240MHz  
Ant:Chain0



Mode:802.11ax HE20 Tone:242T Frequency:5180MHz  
Ant:Chain1



Mode:802.11ax HE20 Tone:242T Frequency:5220MHz  
Ant:Chain1



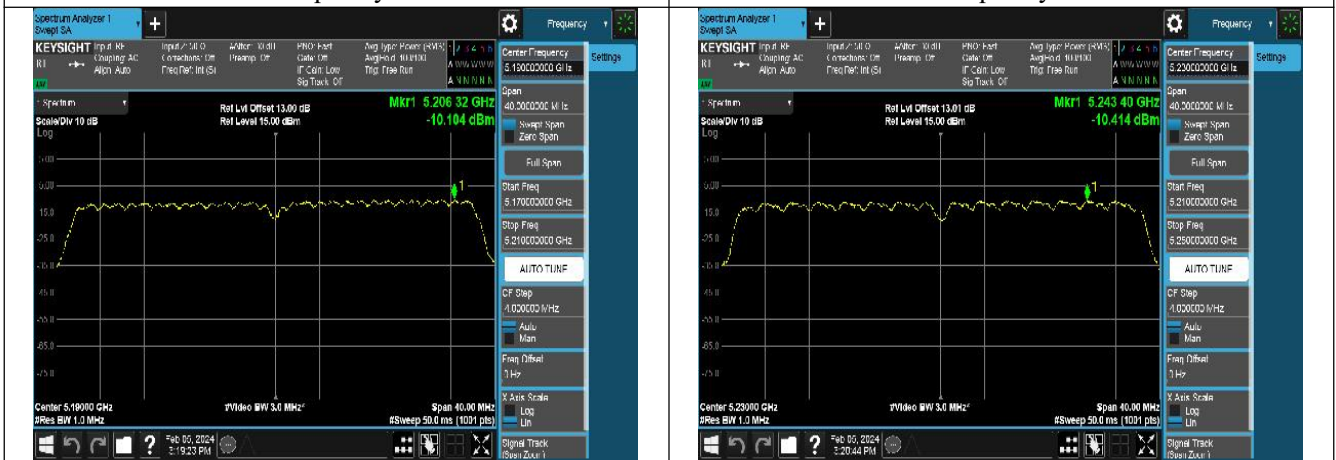
Mode:802.11ax HE20 Tone:242T Frequency:5240MHz  
Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain0

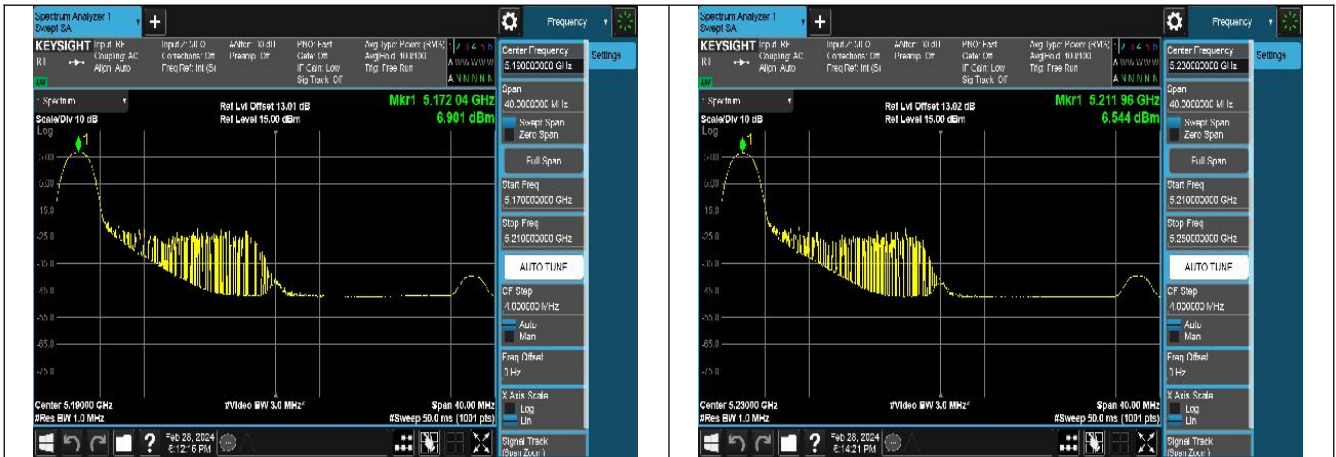


Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain1



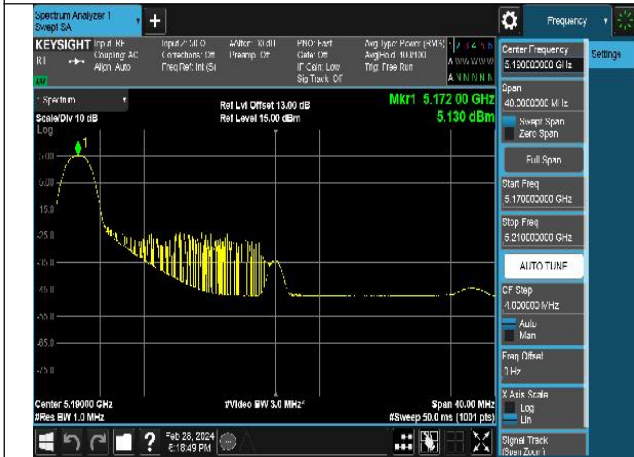
Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain1

Test Mode: 802.11ax HE40



Mode:802.11ax HE40 Tone:26T Frequency:5190MHz  
Ant:Chain0

Mode:802.11ax HE40 Tone:26T Frequency:5230MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:26T Frequency:5190MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:26T Frequency:5230MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:52T Frequency:5190MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:52T Frequency:5230MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:52T Frequency:5190MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:52T Frequency:5230MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:106T Frequency:5190MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:106T Frequency:5230MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:106T Frequency:5190MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:106T Frequency:5230MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:242T Frequency:5190MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:242T Frequency:5230MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:242T Frequency:5190MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:242T Frequency:5230MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:484T Frequency:5190MHz  
Ant:Chain0



Mode:802.11ax HE40 Tone:484T Frequency:5230MHz  
Ant:Chain0





Mode:802.11ax HE40 Tone:484T Frequency:5190MHz  
Ant:Chain1



Mode:802.11ax HE40 Tone:484T Frequency:5230MHz  
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain1

Test Mode: 802.11ax HE80



Mode:802.11ax HE80 Tone:26T Frequency:5210MHz  
Ant:Chain0



Mode:802.11ax HE80 Tone:26T Frequency:5210MHz  
Ant:Chain1



Mode:802.11ax HE80 Tone:52T Frequency:5210MHz  
Ant:Chain0



Mode:802.11ax HE80 Tone:52T Frequency:5210MHz  
Ant:Chain1



Mode:802.11ax HE80 Tone:106T Frequency:5210MHz  
Ant:Chain0



Mode:802.11ax HE80 Tone:106T Frequency:5210MHz  
Ant:Chain1



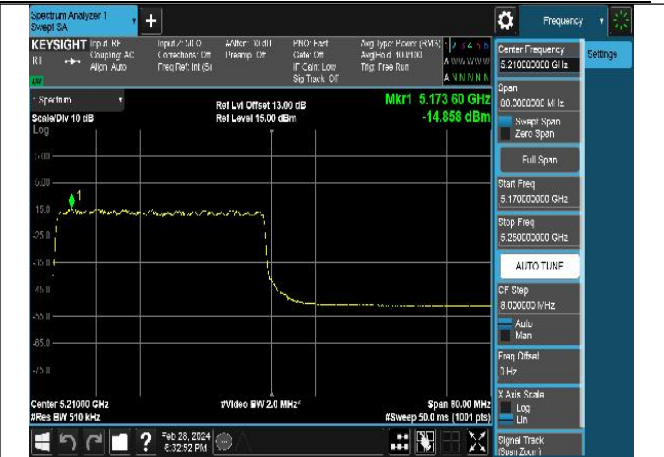
Mode:802.11ax HE80 Tone:242T Frequency:5210MHz  
Ant:Chain0



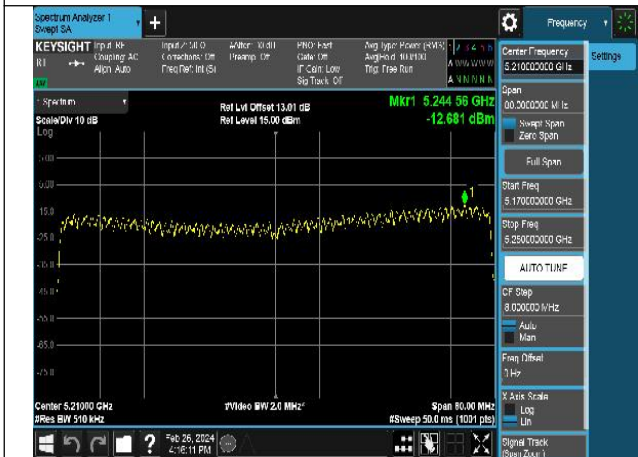
Mode:802.11ax HE80 Tone:242T Frequency:5210MHz  
Ant:Chain1



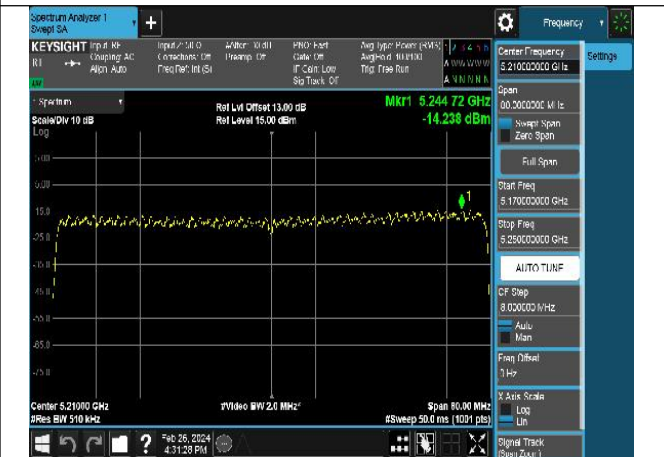
Mode:802.11ax HE80 Tone:484T Frequency:5210MHz  
Ant:Chain0



Mode:802.11ax HE80 Tone:484T Frequency:5210MHz  
Ant:Chain1



Mode:802.11ax HE80 Tone:996T Frequency:5210MHz  
Ant:Chain0



Mode:802.11ax HE80 Tone:996T Frequency:5210MHz  
Ant:Chain1

## MT7663 Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	98.66%	0	Fig.1
802.11a	5180	98.60%	0	Fig.2
802.11n HT20	5180	98.52%	0	Fig.3
802.11n HT20	5180	98.44%	0	Fig.4
802.11ac VHT20	5180	98.59%	0	Fig.5
802.11ac VHT20	5180	98.54%	0	Fig.6
802.11n HT40	5190	98.27%	0	Fig.7
802.11n HT40	5190	98.29%	0	Fig.8
802.11ac VHT40	5190	98.30%	0	Fig.9
802.11ac VHT40	5190	98.25%	0	Fig.10
802.11ac VHT80	5210	98.02%	0	Fig.11
802.11ac VHT80	5210	98.07%	0	Fig.12

Note: Correction Factor=10\*log (1/Duty Cycle)

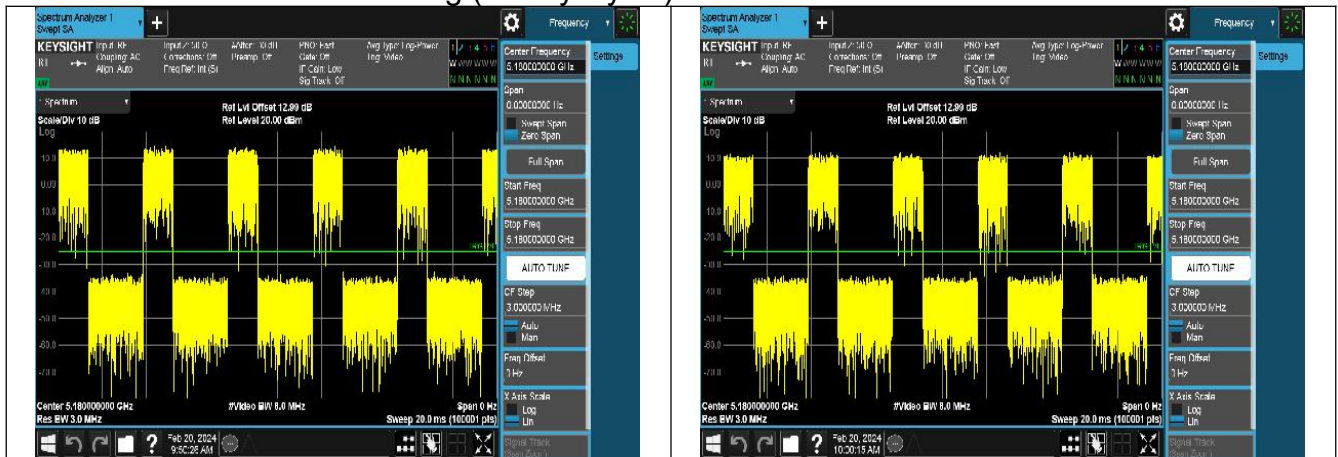


Fig.1

Fig.2

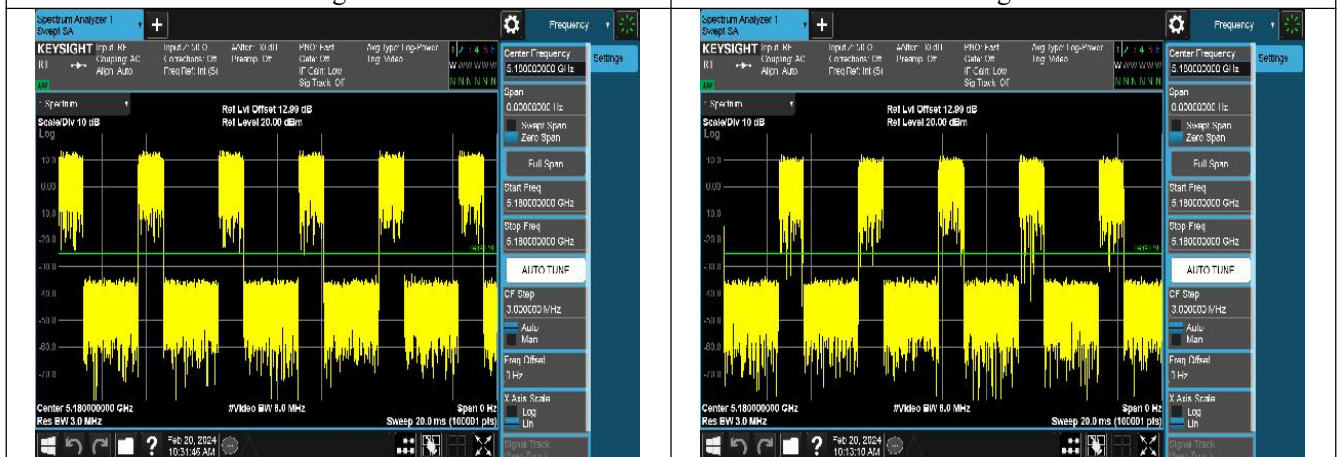


Fig.3

Fig.4



Fig.5



Fig.6



Fig.7



Fig.8



Fig.9

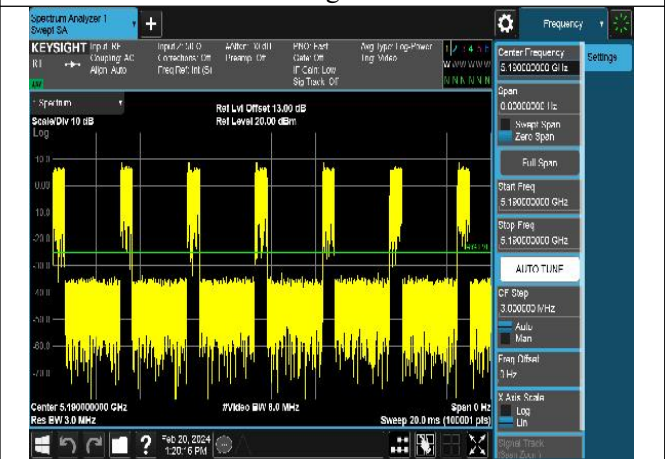


Fig.10

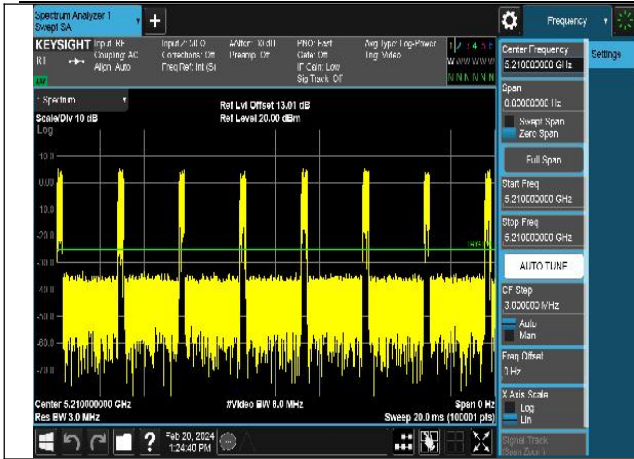


Fig.11



Fig.12

## Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	8.06	7.46
802.11a	NA	5180	Chain1	6.26	6.96
802.11a	NA	5220	Chain0	7.71	7.11
802.11a	NA	5220	Chain1	5.57	6.27
802.11a	NA	5240	Chain0	7.71	7.11
802.11a	NA	5240	Chain1	6.02	6.72
802.11n HT20	NA	5180	Chain0	7.47	6.87
802.11n HT20	NA	5180	Chain1	5.12	5.82
802.11n HT20	NA	5180	MIMO	9.46	9.56
802.11n HT20	NA	5220	Chain0	7.24	6.64
802.11n HT20	NA	5220	Chain1	5.98	6.68
802.11n HT20	NA	5220	MIMO	9.67	9.77
802.11n HT20	NA	5240	Chain0	6.97	6.37
802.11n HT20	NA	5240	Chain1	5.12	5.82
802.11n HT20	NA	5240	MIMO	9.15	9.25
802.11ac VHT20	NA	5180	Chain0	7.32	6.72
802.11ac VHT20	NA	5180	Chain1	5.48	6.18
802.11ac VHT20	NA	5180	MIMO	9.51	9.61
802.11ac VHT20	NA	5220	Chain0	7.26	6.66
802.11ac VHT20	NA	5220	Chain1	5.21	5.91
802.11ac VHT20	NA	5220	MIMO	9.37	9.47
802.11ac VHT20	NA	5240	Chain0	7.28	6.68
802.11ac VHT20	NA	5240	Chain1	4.99	5.69
802.11ac VHT20	NA	5240	MIMO	9.29	9.39
802.11n HT40	NA	5190	Chain0	5.42	4.82
802.11n HT40	NA	5190	Chain1	3.60	4.3
802.11n HT40	NA	5190	MIMO	7.61	7.71
802.11n HT40	NA	5230	Chain0	5.20	4.6
802.11n HT40	NA	5230	Chain1	2.66	3.36
802.11n HT40	NA	5230	MIMO	7.12	7.22
802.11ac VHT40	NA	5190	Chain0	5.22	4.62
802.11ac VHT40	NA	5190	Chain1	3.95	4.65
802.11ac VHT40	NA	5190	MIMO	7.64	7.74
802.11ac VHT40	NA	5230	Chain0	5.26	4.66
802.11ac VHT40	NA	5230	Chain1	3.27	3.97
802.11ac VHT40	NA	5230	MIMO	7.39	7.49
802.11ac VHT80	NA	5210	Chain0	4.18	3.58
802.11ac VHT80	NA	5210	Chain1	-0.47	0.23
802.11ac VHT80	NA	5210	MIMO	5.46	5.56

### Emission Bandwidth

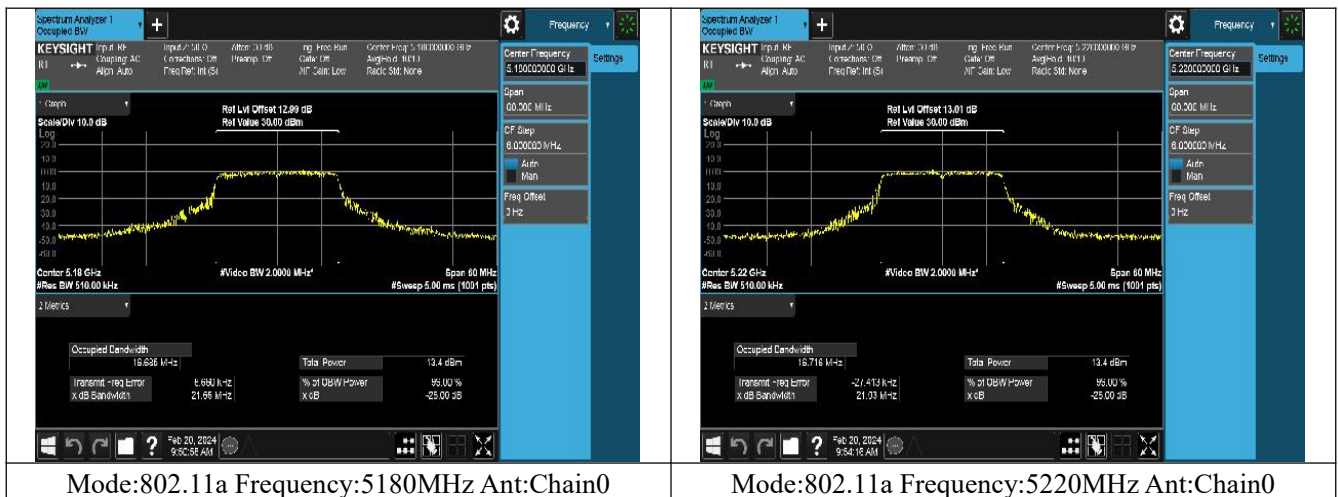
Offset 1.2dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	21.66	21.03	21.25
802.11a	Chain1	21.97	22.52	21.46
802.11n HT20	Chain0	25.54	23.26	22.57
802.11n HT20	Chain1	22.13	21.09	23.12
802.11ac VHT20	Chain0	22.64	23.52	23.37
802.11ac VHT20	Chain1	23.25	23.24	21.65

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	42.22	---	42.94
802.11n HT40	Chain1	42.51	---	42.34
802.11ac VHT40	Chain0	42.68	---	42.39
802.11ac VHT40	Chain1	42.95	---	42.28

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	73.97	---	---
802.11ac VHT80	Chain1	73.50	---	---

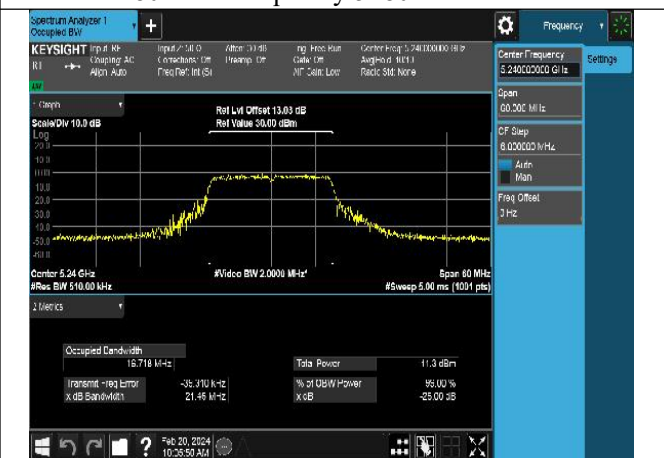
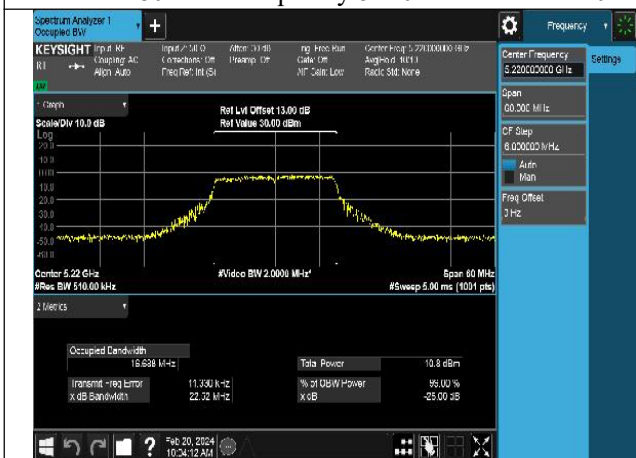
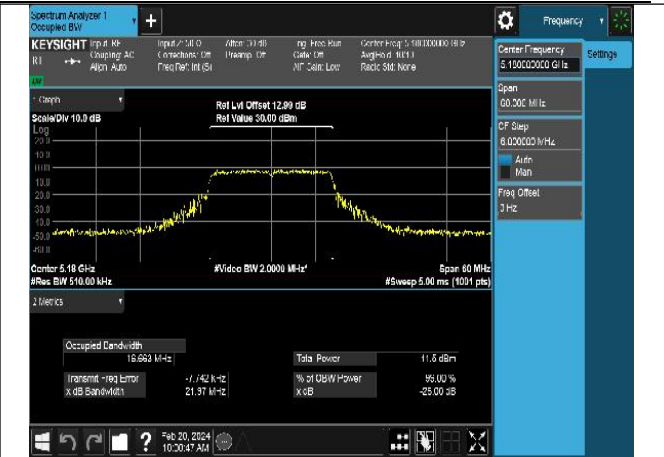
### Test Mode: 802.11a



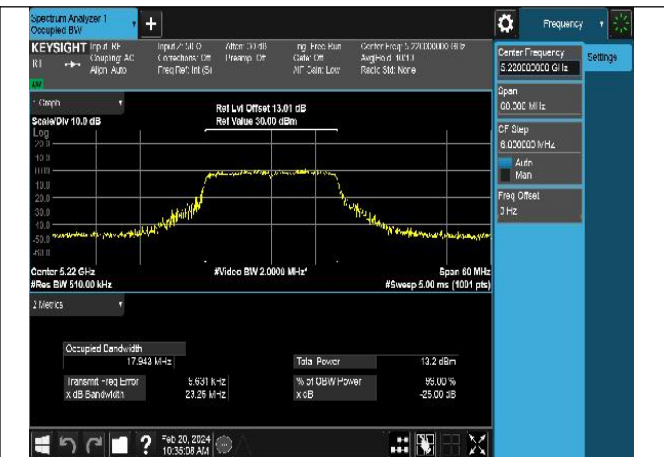
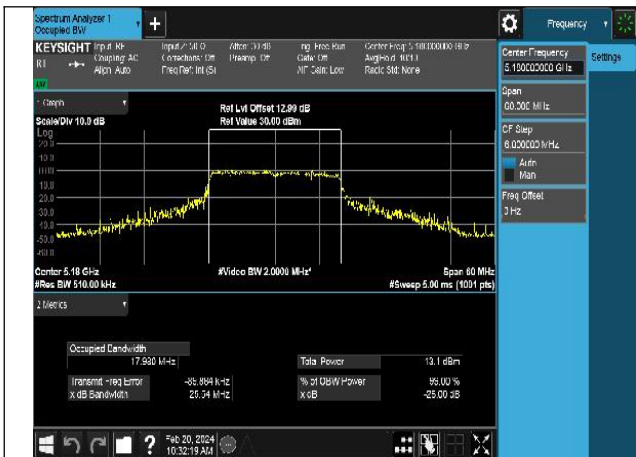
Mode:802.11a Frequency:5180MHz Ant:Chain0

Mode:802.11a Frequency:5220MHz Ant:Chain0



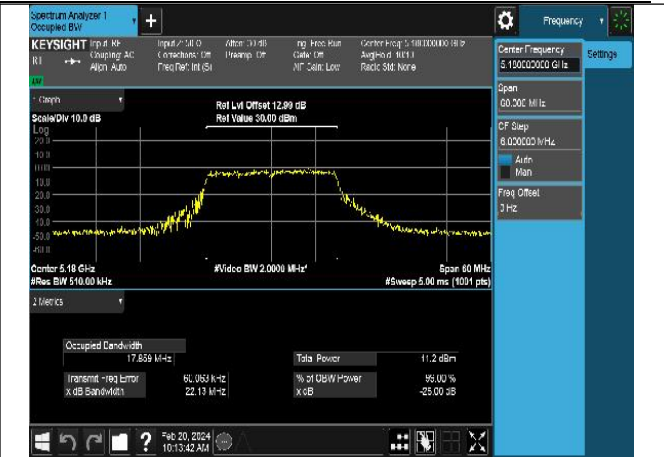


**Test Mode: 802.11n HT20**





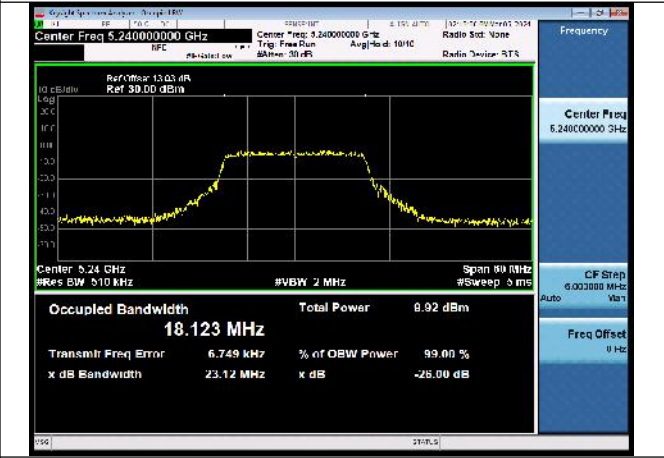
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1

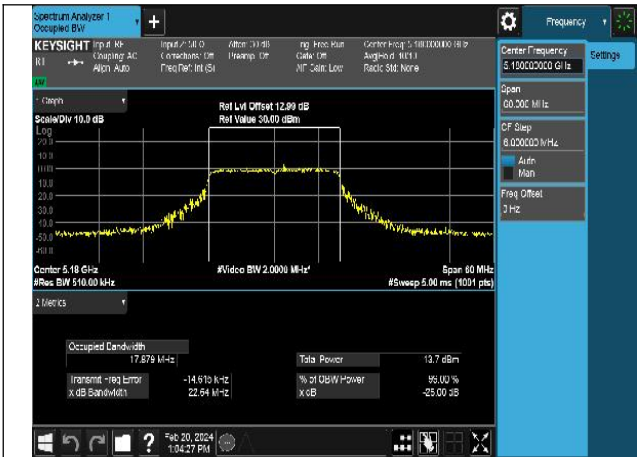


Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ac VHT20



Mode:802.11ac VHT20 Frequency:5180MHz  
Ant:Chain0



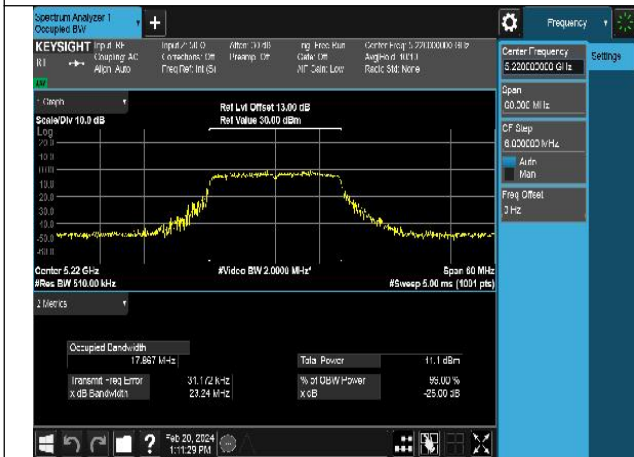
Mode:802.11ac VHT20 Frequency:5220MHz  
Ant:Chain0



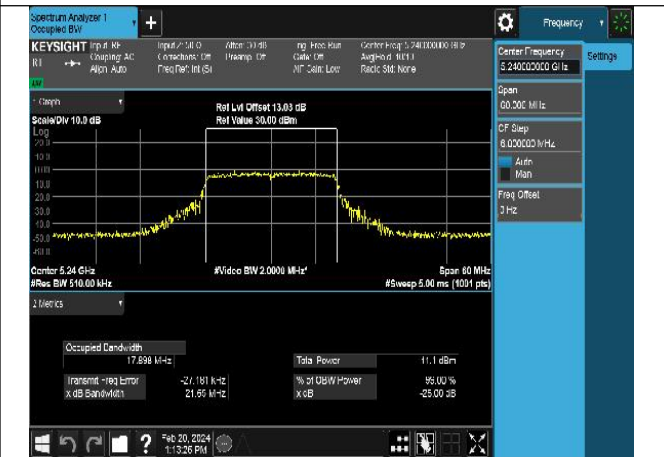
Mode:802.11ac VHT20 Frequency:5240MHz  
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5180MHz  
Ant:Chain1

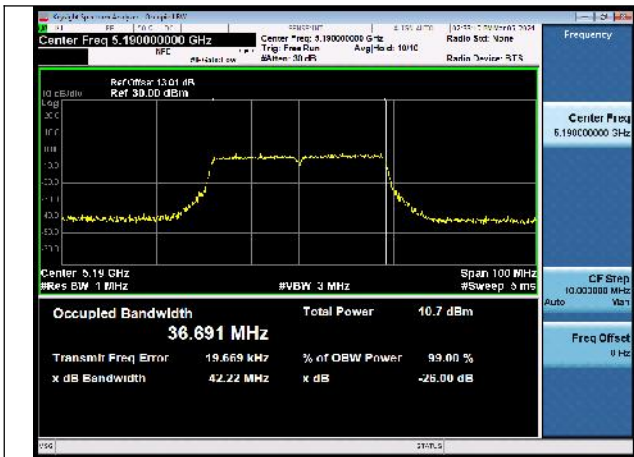


Mode:802.11ac VHT20 Frequency:5220MHz  
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5240MHz  
Ant:Chain1

Test Mode: 802.11n HT40



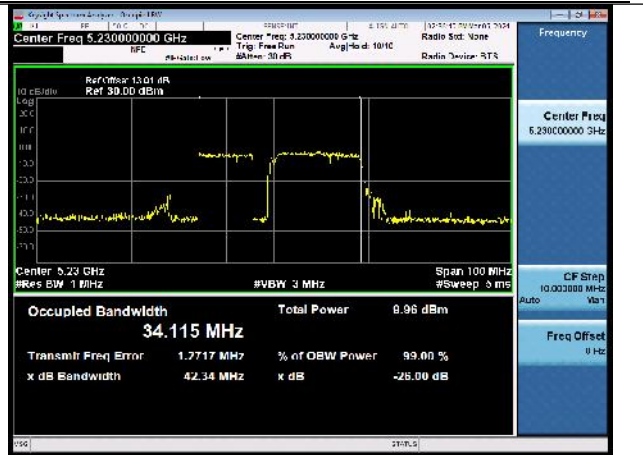
Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0

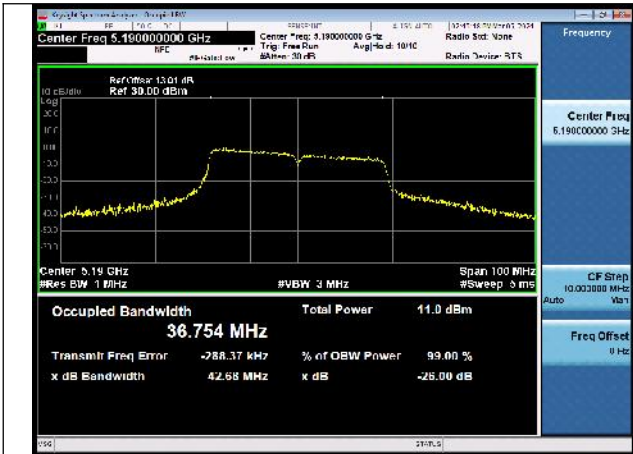


Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1



Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain1



Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain1

## Occupied Bandwidth

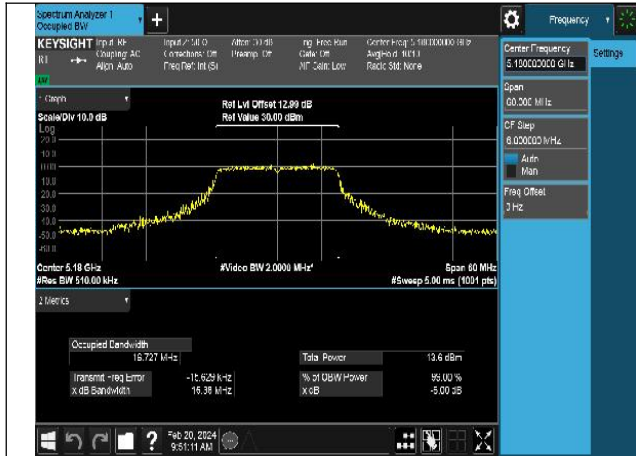
Offset 1.2dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.727	16.667	16.699
802.11a	Chain1	16.757	16.704	16.730
802.11n HT20	Chain0	17.946	17.919	17.940
802.11n HT20	Chain1	17.984	18.022	18.011
802.11ac VHT20	Chain0	17.858	18.012	17.917
802.11ac VHT20	Chain1	18.058	17.856	17.985

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.675	---	36.699
802.11n HT40	Chain1	36.647	---	36.614
802.11ac VHT40	Chain0	36.744	---	36.671
802.11ac VHT40	Chain1	36.685	---	36.691

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	65.991	---	---
802.11ac VHT80	Chain1	65.599	---	---

Test Mode: 802.11a



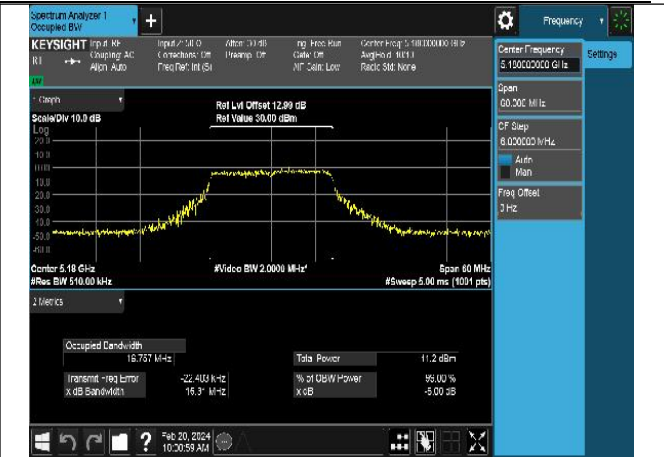
Mode:802.11a Frequency:5180MHz Ant:Chain0



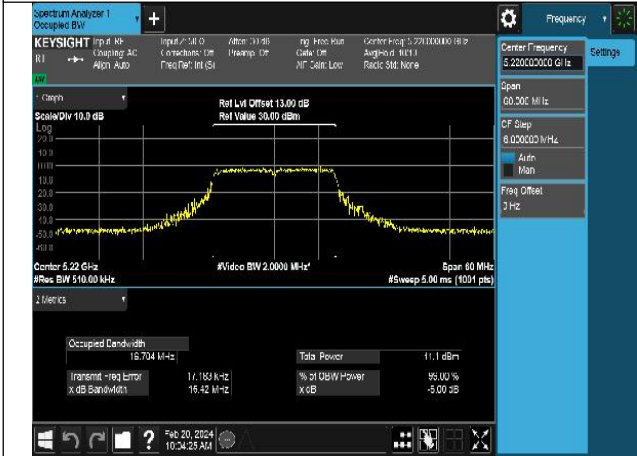
Mode:802.11a Frequency:5220MHz Ant:Chain0



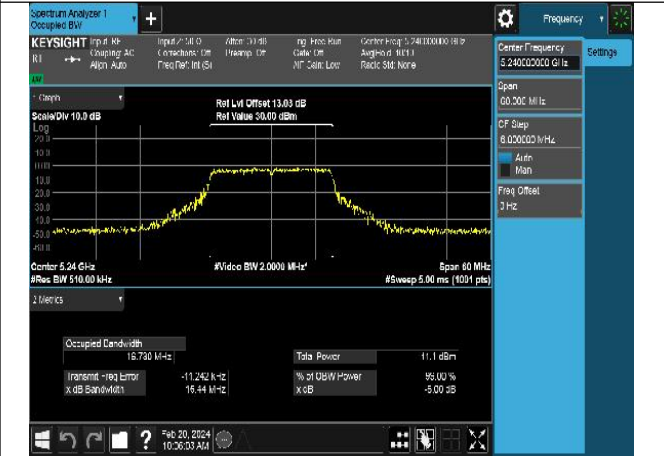
Mode:802.11a Frequency:5240MHz Ant:Chain0



Mode:802.11a Frequency:5180MHz Ant:Chain1

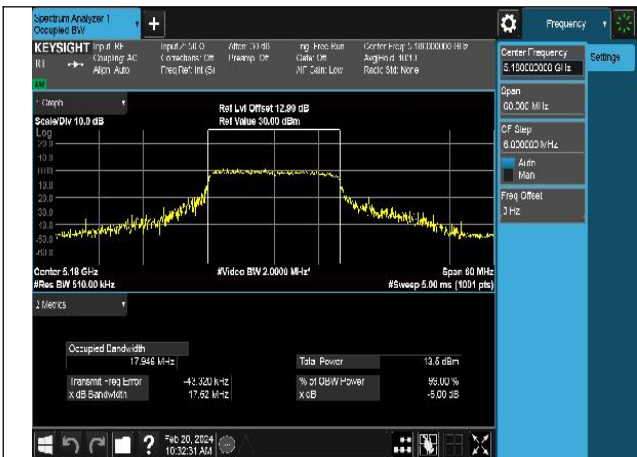


Mode:802.11a Frequency:5220MHz Ant:Chain1

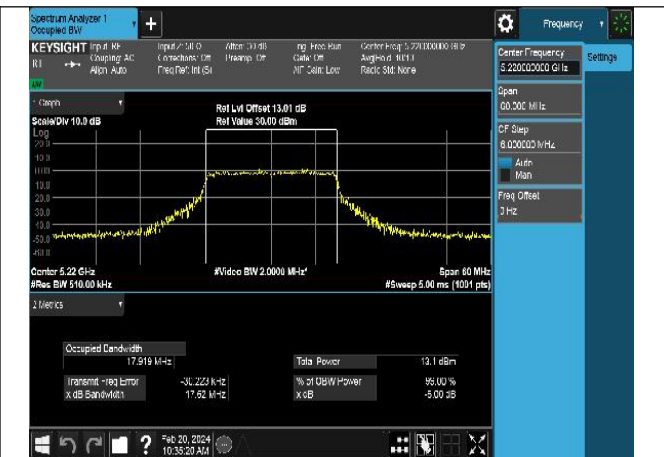


Mode:802.11a Frequency:5240MHz Ant:Chain1

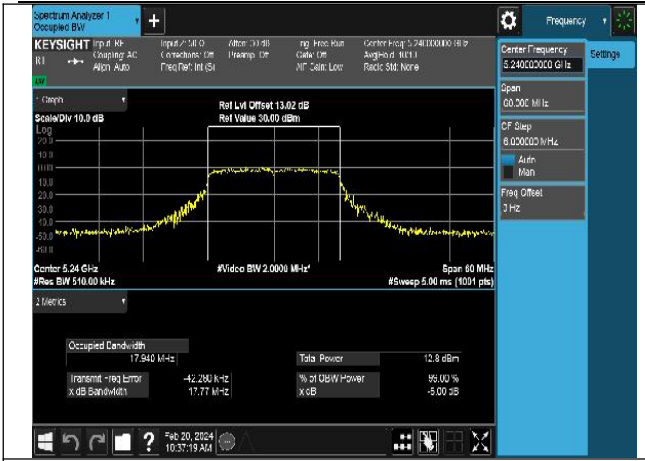
Test Mode: 802.11n HT20



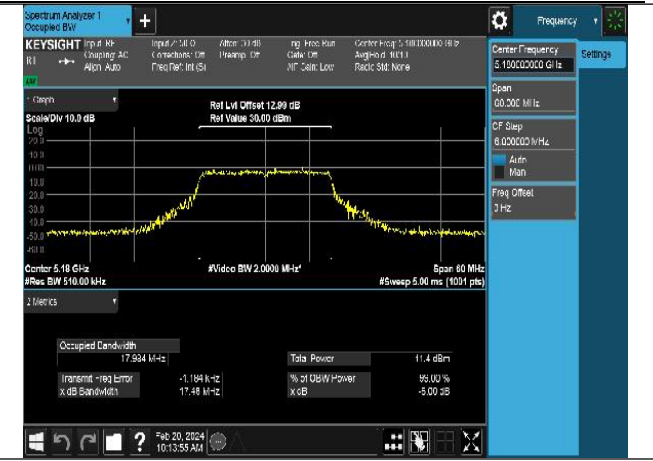
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



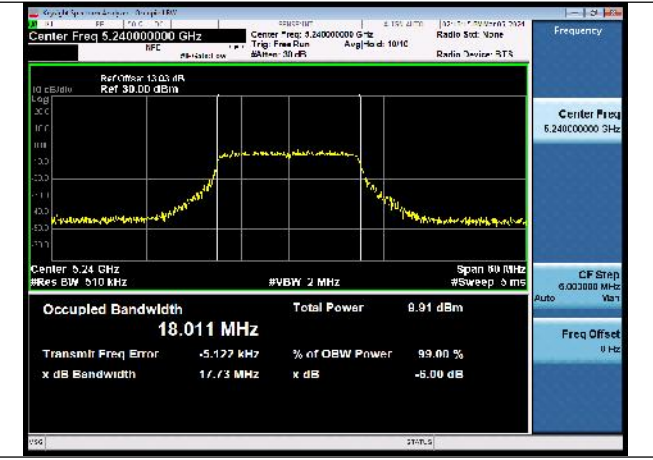
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1

Test Mode: 802.11ac VHT20

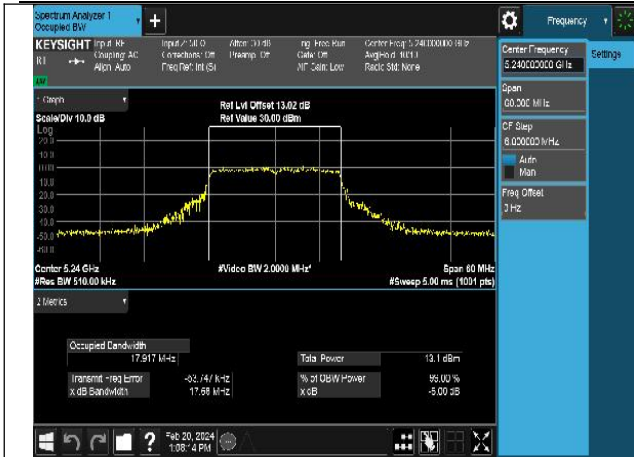


Mode:802.11ac VHT20 Frequency:5180MHz  
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5220MHz  
Ant:Chain0

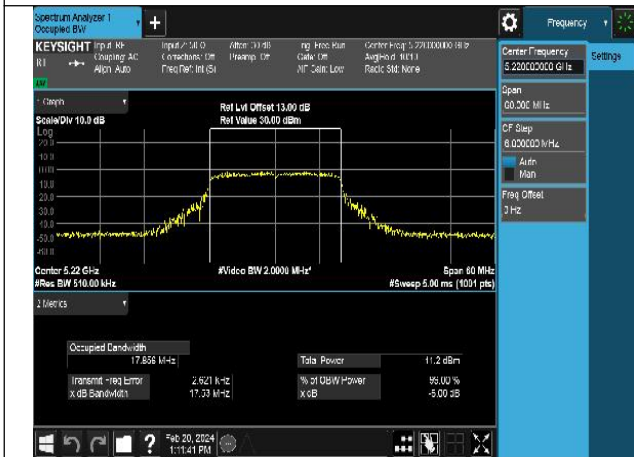




Mode:802.11ac VHT20 Frequency:5240MHz  
Ant:Chain0



Mode:802.11ac VHT20 Frequency:5180MHz  
Ant:Chain1

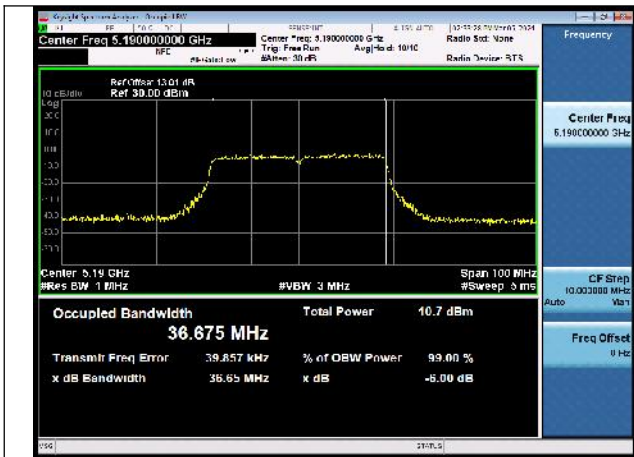


Mode:802.11ac VHT20 Frequency:5220MHz  
Ant:Chain1



Mode:802.11ac VHT20 Frequency:5240MHz  
Ant:Chain1

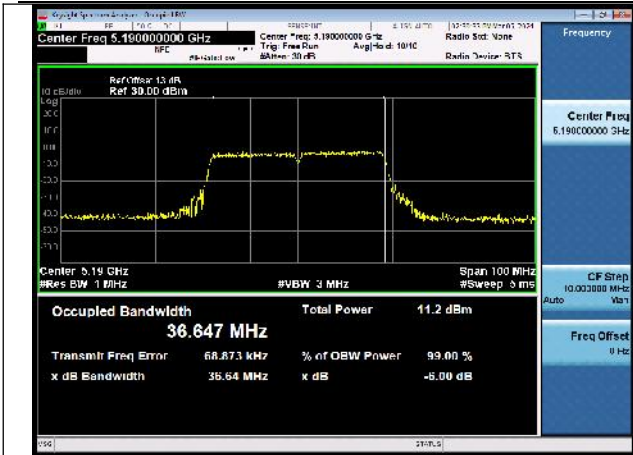
Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1



Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1

Test Mode: 802.11ac VHT40



Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5190MHz  
Ant:Chain1



Mode:802.11ac VHT40 Frequency:5230MHz  
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5210MHz  
Ant:Chain1

## Transmitter Power Spectral Density

Offset 1.2dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Tones	5180MHz		5220MHz		5240MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11a	Chain0	NA	0.00	-2.357	0.00	-2.463	0.00	-2.572
802.11a	Chain1	NA	0.00	-4.484	0.00	-4.401	0.00	-4.054
802.11n HT20	Chain0	NA	0.00	-3.211	0.00	-3.492	0.00	-4.036
802.11n HT20	Chain1	NA	0.00	-5.456	0.00	-5.929	0.00	-6.217
802.11n HT20	MIMO	NA	0.00	-1.180	0.00	-1.531	0.00	-1.981
802.11ac VHT20	Chain0	NA	0.00	-3.237	0.00	-3.745	0.00	-3.980
802.11ac VHT20	Chain1	NA	0.00	-4.839	0.00	-6.041	0.00	-5.995
802.11ac VHT20	MIMO	NA	0.00	-0.954	0.00	-1.733	0.00	-1.861

Test Mode	Antenna	Tones	5190MHz		---		5230MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11n HT40	Chain0	NA	0.00	-7.148	---	---	0.00	-8.132
802.11n HT40	Chain1	NA	0.00	-9.390	---	---	0.00	-10.781
802.11n HT40	MIMO	NA	0.00	-5.116	---	---	0.00	-6.247
802.11ac VHT40	Chain0	NA	0.00	-7.349	---	---	0.00	-8.658
802.11ac VHT40	Chain1	NA	0.00	-9.644	---	---	0.00	-10.689
802.11ac VHT40	MIMO	NA	0.00	-5.336	---	---	0.00	-6.546

Test Mode	Antenna	Tones	5210MHz		---		---	
			Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)	Correction Factor(dB)	Power Density (dBm/MHz)
802.11ac VHT80	Chain0	NA	0.00	-9.126	---	---	---	---
802.11ac VHT80	Chain1	NA	0.00	-14.773	---	---	---	---
802.11ac VHT80	MIMO	NA	0.00	-8.080	---	---	---	---