APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5260	99.93%	0	Fig.1
802.11a	5260	99.90%	0	Fig.2
802.11n HT20	5260	99.90%	0	Fig.3
802.11n HT20	5260	99.88%	0	Fig.4
802.11ac VHT20	5260	99.90%	0	Fig.5
802.11ac VHT20	5260	99.90%	0	Fig.6
802.11n HT40	5270	99.79%	0	Fig.7
802.11n HT40	5270	99.82%	0	Fig.8
802.11ac VHT40	5270	99.82%	0	Fig.9
802.11ac VHT40	5270	99.81%	0	Fig.10
802.11ac VHT80	5290	99.66%	0	Fig.11
802.11ac VHT80	5290	99.69%	0	Fig.12

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

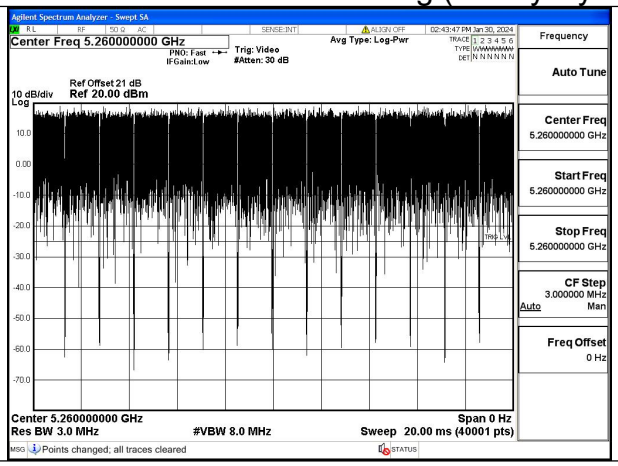


Fig.1

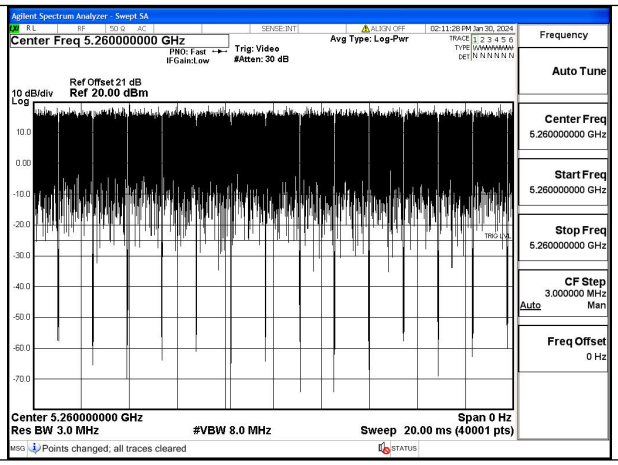


Fig.2

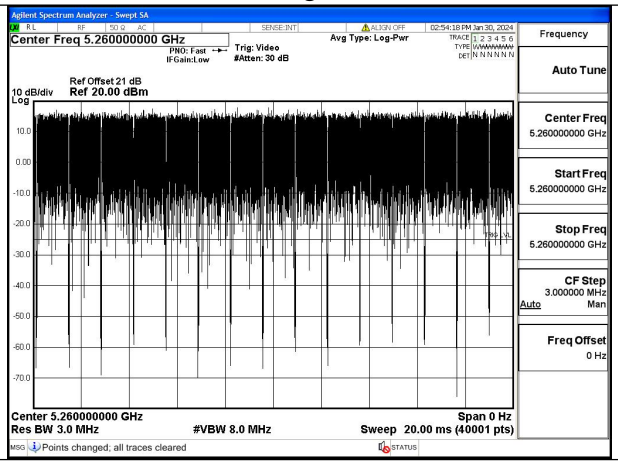


Fig.3

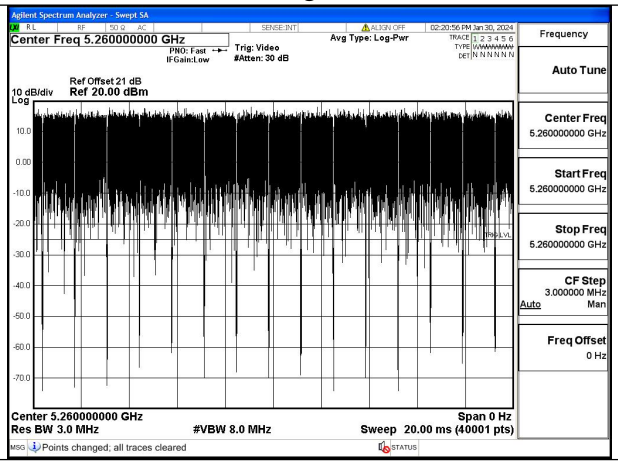


Fig.4

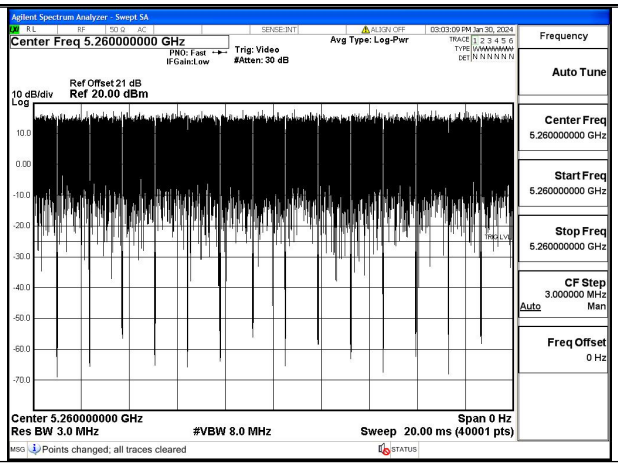


Fig.5

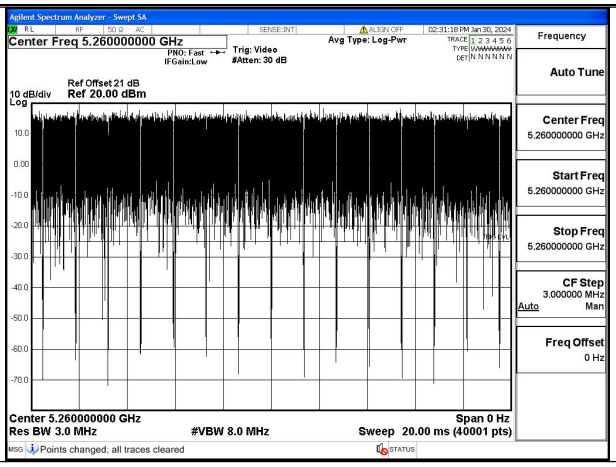


Fig.6

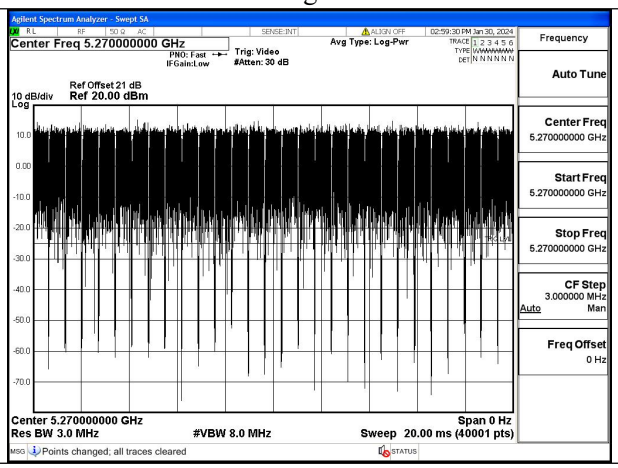


Fig.7

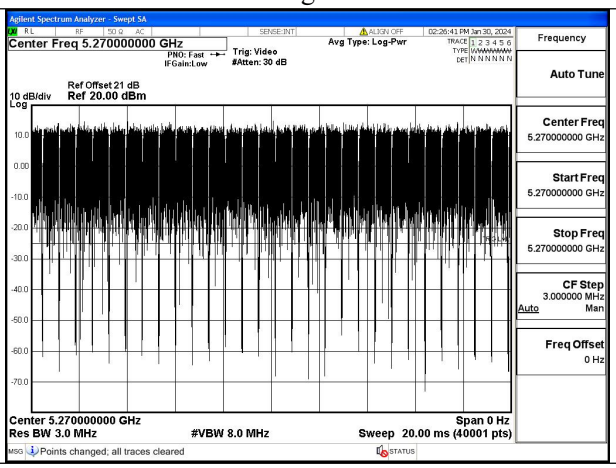


Fig.8

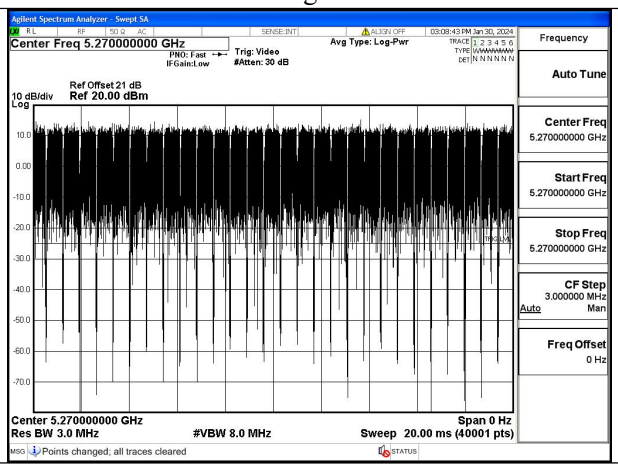


Fig.9

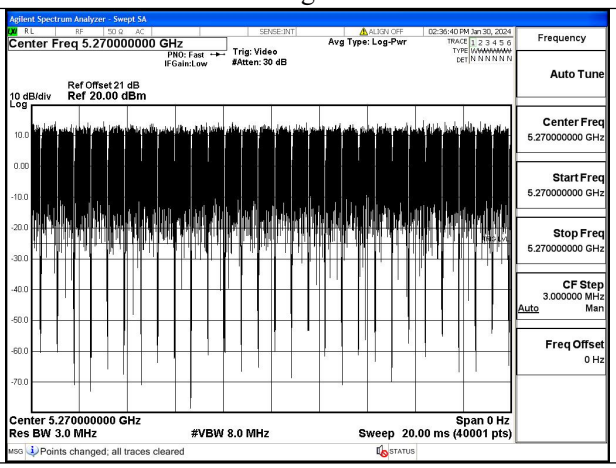
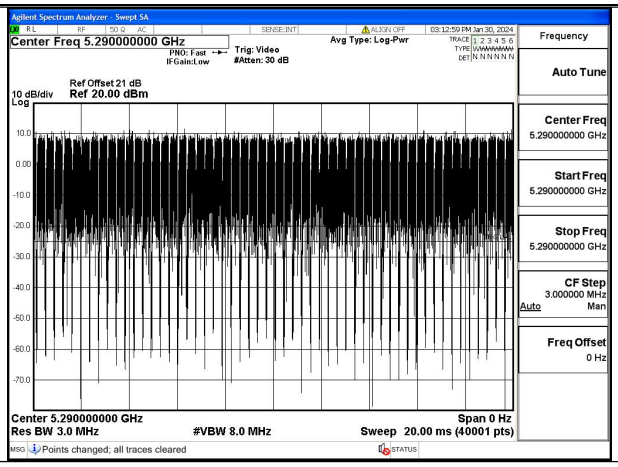


Fig.10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Center Freq 5.290000000 GHz
PNO: Fast
IFGain:Low
Trig: Video
#Atten: 30 dB
Avg Type: Log-Pwr
03:12:59 PM Jan 30, 2024
Ref Offset 21 dB
10 dB/div
Ref 20.00 dBm
Log
Frequency
Auto Tune
Center Freq
5.290000000 GHz
Start Freq
5.290000000 GHz
Stop Freq
5.290000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 5.290000000 GHz
Span 0 Hz
Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 20.00 ms (40001 pts)
Points changed; all traces cleared

Fig.11

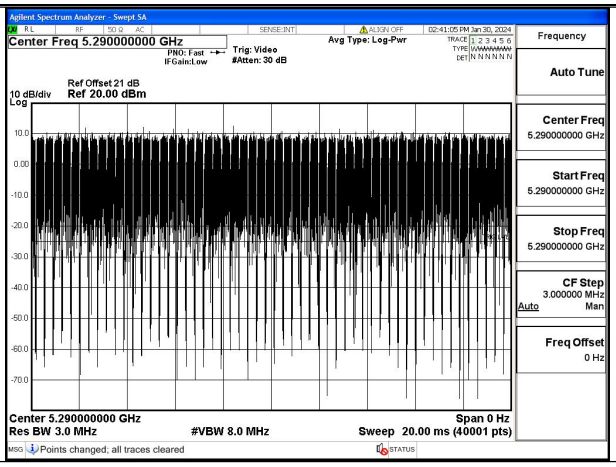

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.290000000 GHz
PNO: Fast
IFGain:Low
Trig: Video
#Atten: 30 dB
Avg Type: Log-Pwr
02:41:05 PM Jan 30, 2024
Ref Offset 21 dB
10 dB/div
Ref 20.00 dBm
Log
Frequency
Auto Tune
Center Freq
5.290000000 GHz
Start Freq
5.290000000 GHz
Stop Freq
5.290000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 5.290000000 GHz
Span 0 Hz
Res BW 3.0 MHz
#VBW 8.0 MHz
Sweep 20.00 ms (40001 pts)
Points changed; all traces cleared

Fig.12

Output Power

Mode	Tones/ RU Index	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5260	Chain0	15.65	20.91
802.11a	NA	5260	Chain1	15.61	16.40
802.11a	NA	5280	Chain0	15.49	20.75
802.11a	NA	5280	Chain1	15.58	16.37
802.11a	NA	5320	Chain0	15.63	20.89
802.11a	NA	5320	Chain1	15.60	16.39
802.11n HT20	NA	5260	Chain0	14.38	19.64
802.11n HT20	NA	5260	Chain1	14.62	15.41
802.11n HT20	NA	5260	MIMO	17.51	21.09
802.11n HT20	NA	5280	Chain0	14.43	19.69
802.11n HT20	NA	5280	Chain1	14.61	15.40
802.11n HT20	NA	5280	MIMO	17.53	21.11
802.11n HT20	NA	5320	Chain0	14.41	19.67
802.11n HT20	NA	5320	Chain1	14.60	15.39
802.11n HT20	NA	5320	MIMO	17.52	21.10
802.11ac VHT20	NA	5260	Chain0	14.44	19.70
802.11ac VHT20	NA	5260	Chain1	14.49	15.28
802.11ac VHT20	NA	5260	MIMO	17.48	21.06
802.11ac VHT20	NA	5280	Chain0	14.48	19.74
802.11ac VHT20	NA	5280	Chain1	14.54	15.33
802.11ac VHT20	NA	5280	MIMO	17.52	21.10
802.11ac VHT20	NA	5320	Chain0	14.43	19.69
802.11ac VHT20	NA	5320	Chain1	14.63	15.42
802.11ac VHT20	NA	5320	MIMO	17.54	21.12
802.11n HT40	NA	5270	Chain0	14.45	19.71
802.11n HT40	NA	5270	Chain1	14.62	15.41
802.11n HT40	NA	5270	MIMO	17.55	21.13
802.11n HT40	NA	5310	Chain0	14.41	19.67
802.11n HT40	NA	5310	Chain1	14.56	15.35
802.11n HT40	NA	5310	MIMO	17.50	21.08
802.11ac VHT40	NA	5270	Chain0	14.53	19.79
802.11ac VHT40	NA	5270	Chain1	14.56	15.35
802.11ac VHT40	NA	5270	MIMO	17.56	21.14
802.11ac VHT40	NA	5310	Chain0	14.46	19.72
802.11ac VHT40	NA	5310	Chain1	14.56	15.35
802.11ac VHT40	NA	5310	MIMO	17.52	21.10
802.11ac VHT80	NA	5290	Chain0	13.97	19.23
802.11ac VHT80	NA	5290	Chain1	14.09	14.88
802.11ac VHT80	NA	5290	MIMO	17.04	20.62

Emission Bandwidth

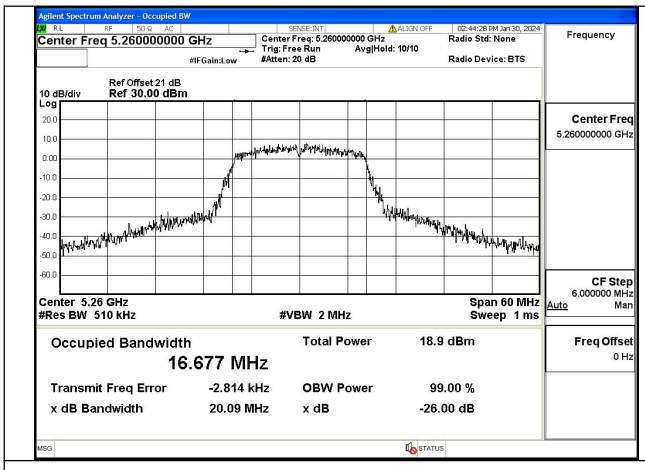
Offset 21dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5260MHz	5280MHz	5320MHz
802.11a	Chain0	20.09	19.64	19.79
802.11a	Chain1	19.97	20.51	19.85
802.11n HT20	Chain0	20.04	20.10	20.33
802.11n HT20	Chain1	20.34	20.03	19.99
802.11ac VHT20	Chain0	20.05	20.48	20.22
802.11ac VHT20	Chain1	20.57	20.01	20.38

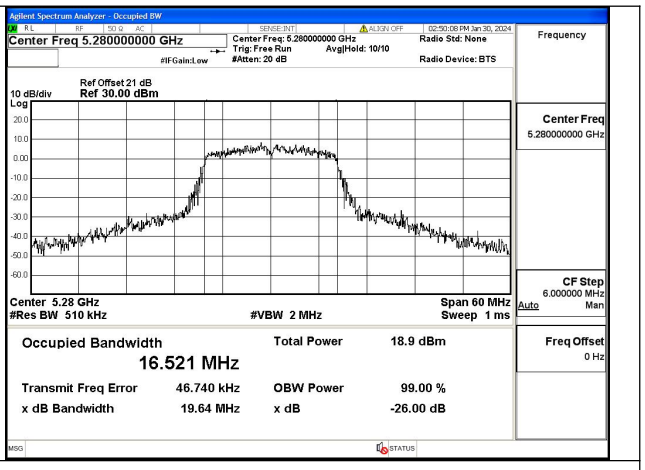
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5270MHz	---	5310MHz
802.11n HT40	Chain0	40.28	---	39.92
802.11n HT40	Chain1	40.64	---	40.18
802.11ac VHT40	Chain0	40.55	---	41.28
802.11ac VHT40	Chain1	40.24	---	39.99

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5290MHz	---	---
802.11ac VHT80	Chain0	81.38	---	---
802.11ac VHT80	Chain1	81.61	---	---

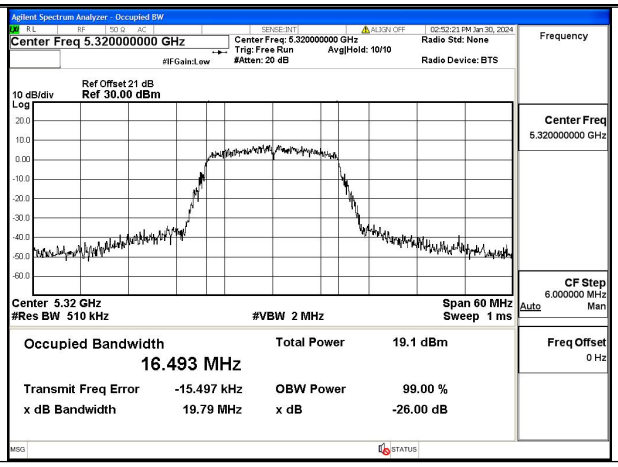
Test Mode: 802.11a



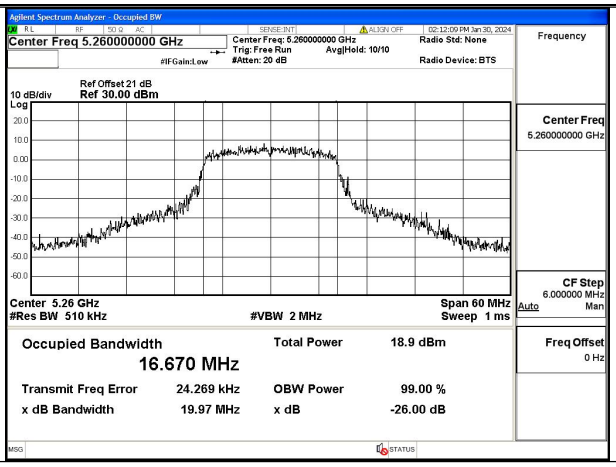
Mode:802.11a Frequency:5260MHz Ant:Chain0



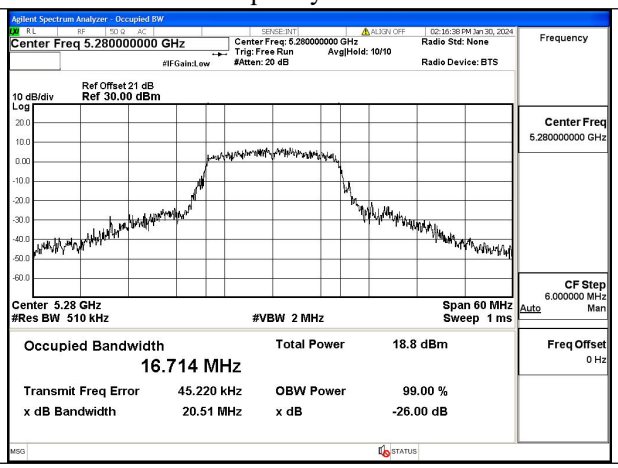
Mode:802.11a Frequency:5280MHz Ant:Chain0



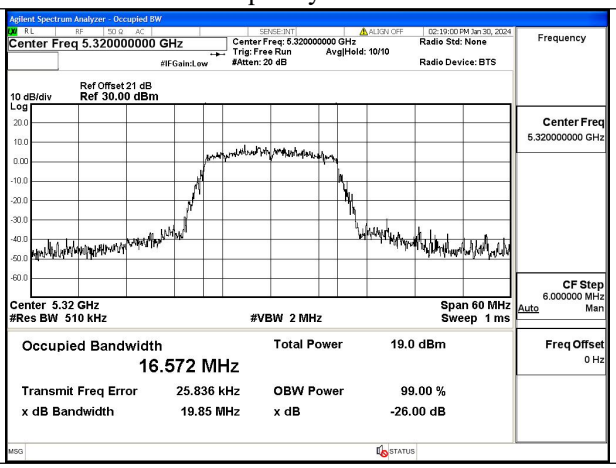
Mode:802.11a Frequency:5320MHz Ant:Chain0



Mode:802.11a Frequency:5260MHz Ant:Chain1

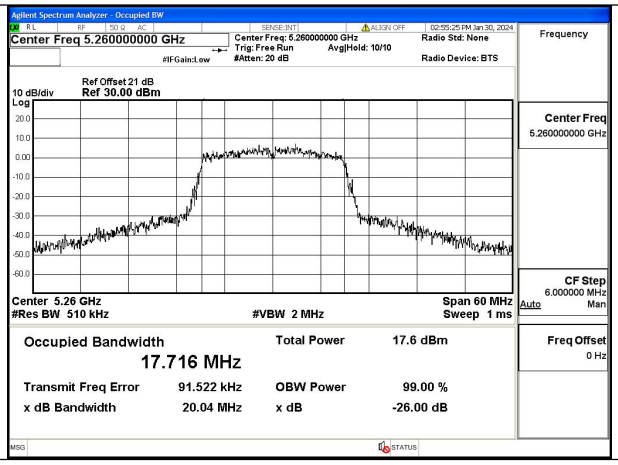


Mode:802.11a Frequency:5280MHz Ant:Chain1

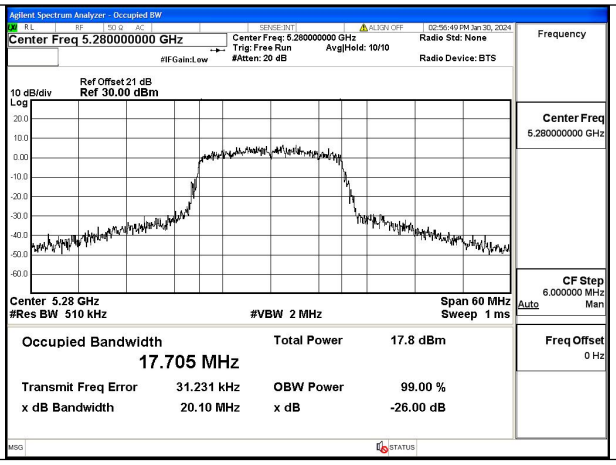


Mode:802.11a Frequency:5320MHz Ant:Chain1

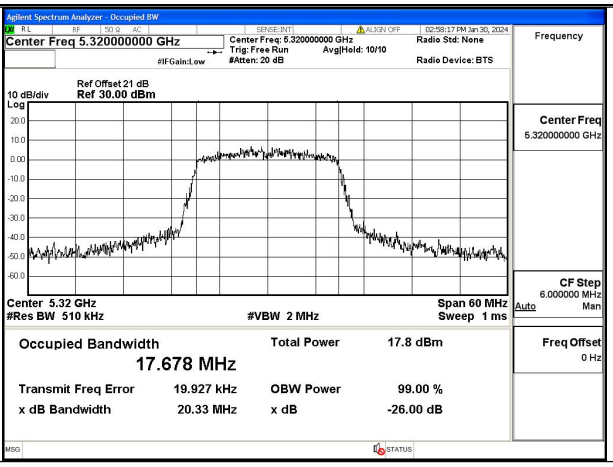
Test Mode: 802.11n HT20



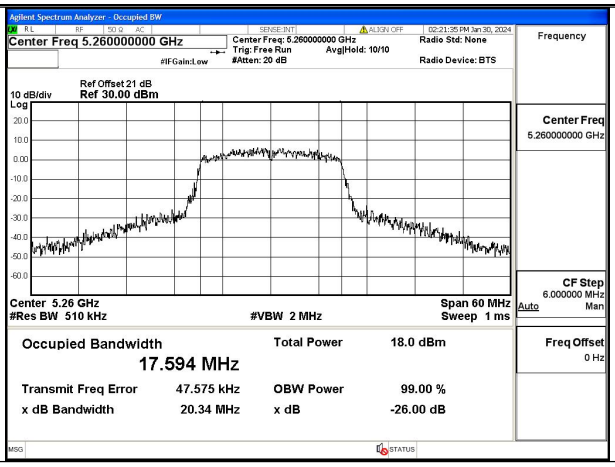
Mode:802.11n HT20 Frequency:5260MHz Ant:Chain0



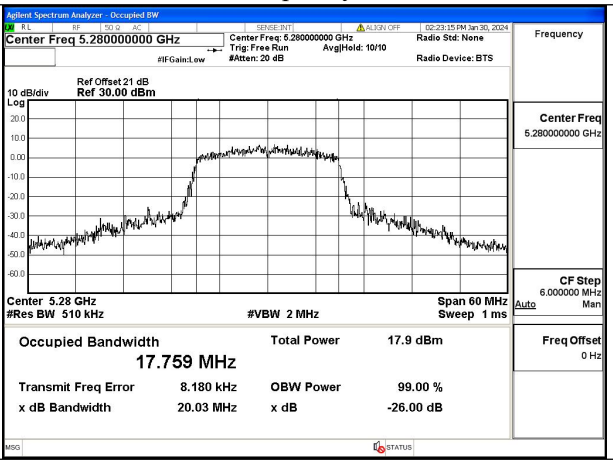
Mode:802.11n HT20 Frequency:5280MHz Ant:Chain0



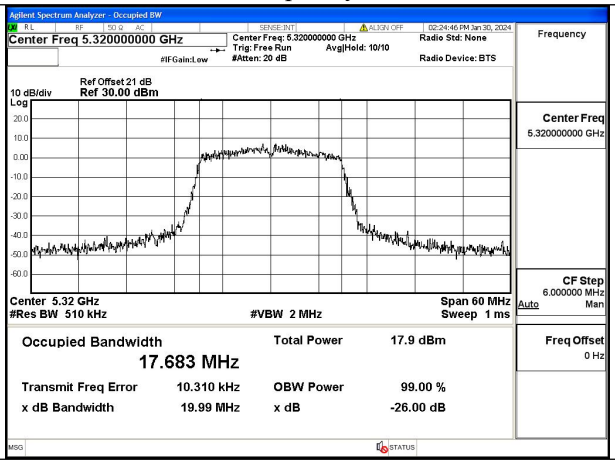
Mode:802.11n HT20 Frequency:5320MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5260MHz Ant:Chain1

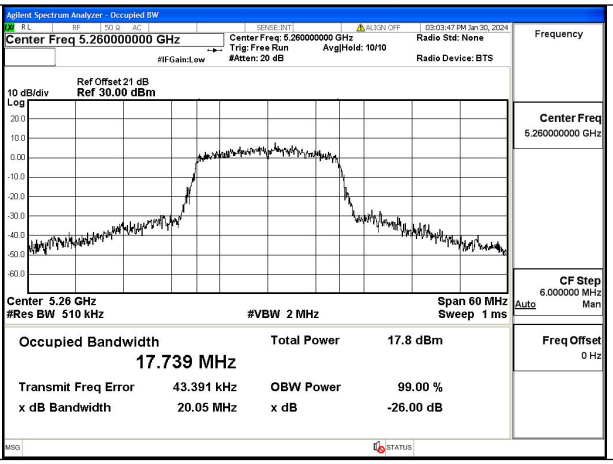


Mode:802.11n HT20 Frequency:5280MHz Ant:Chain1

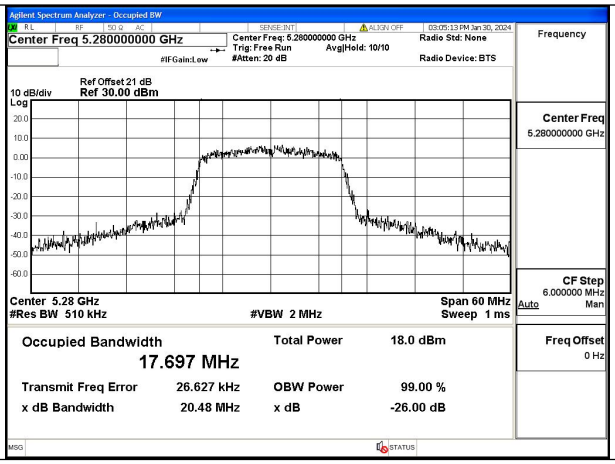


Mode:802.11n HT20 Frequency:5320MHz Ant:Chain1

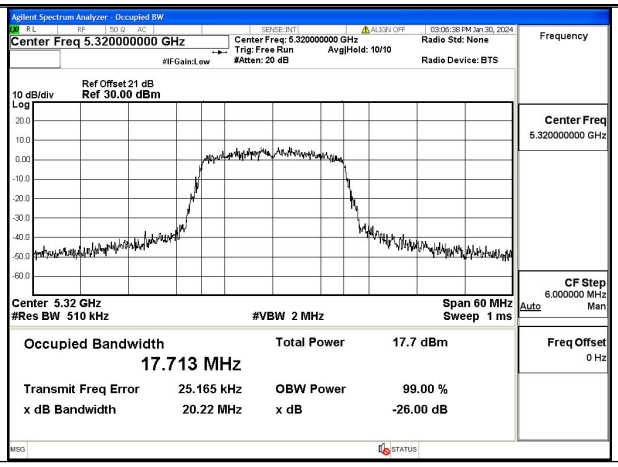
Test Mode: 802.11ac VHT20



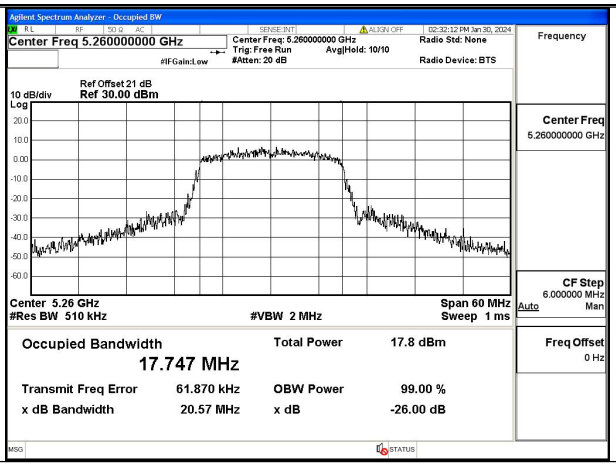
Mode:802.11ac VHT20 Frequency:5260MHz Ant:Chain0



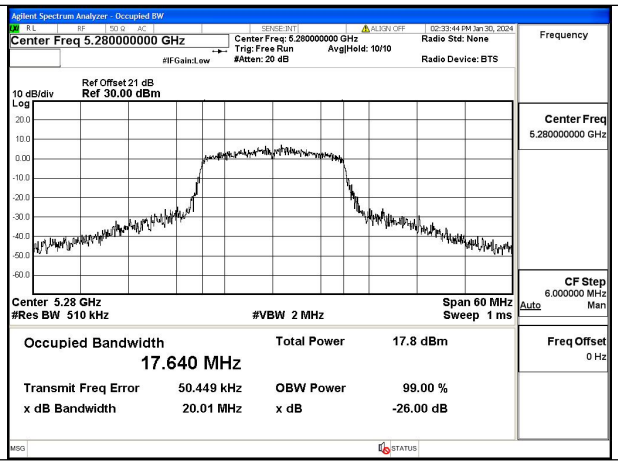
Mode:802.11ac VHT20 Frequency:5280MHz Ant:Chain0



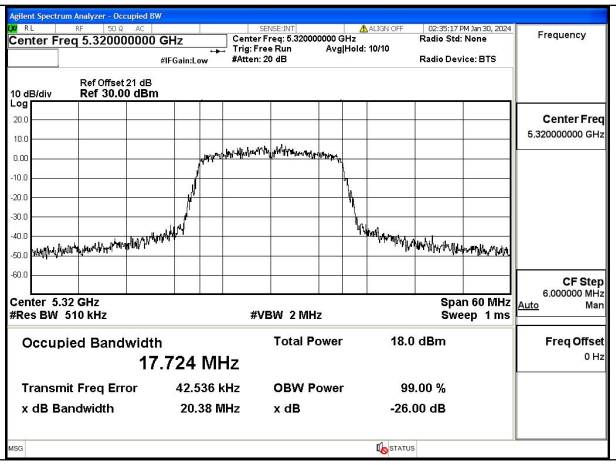
Mode:802.11ac VHT20 Frequency:5320MHz Ant:Chain0



Mode:802.11ac VHT20 Frequency:5260MHz Ant:Chain1

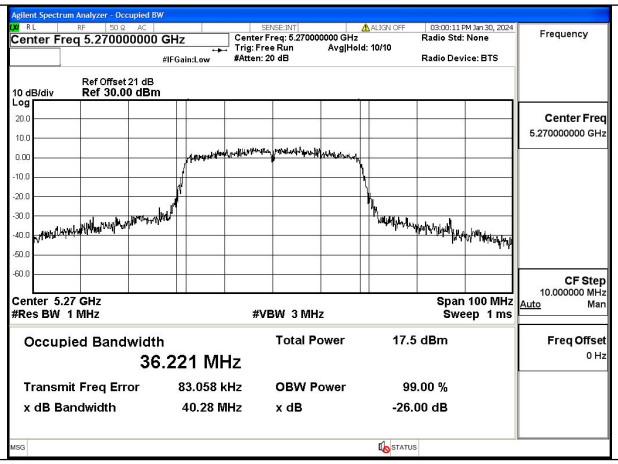


Mode:802.11ac VHT20 Frequency:5280MHz Ant:Chain1

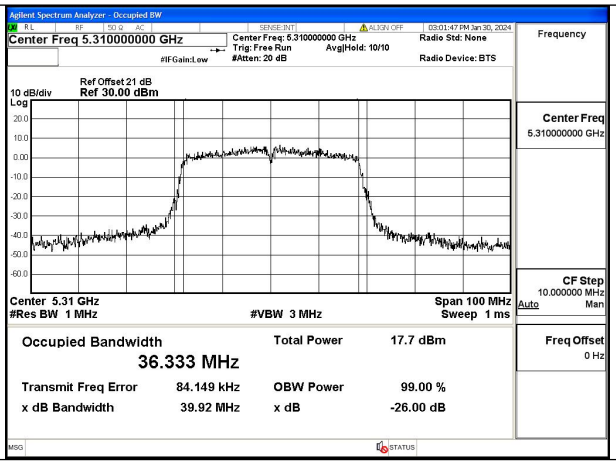


Mode:802.11ac VHT20 Frequency:5320MHz Ant:Chain1

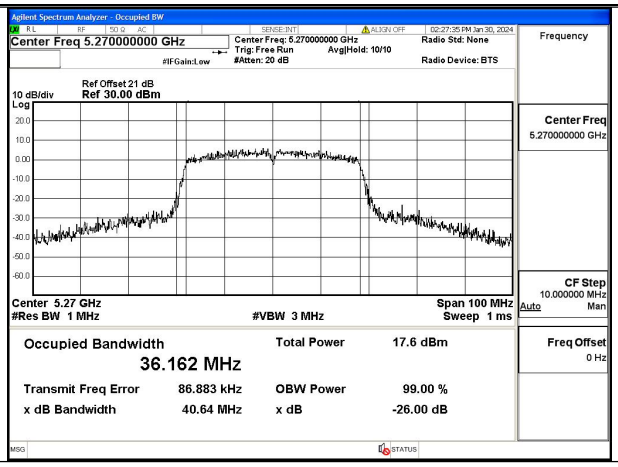
Test Mode: 802.11n HT40



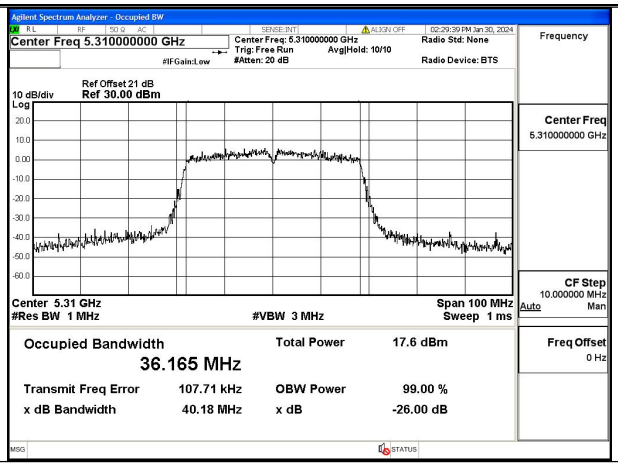
Mode:802.11n HT40 Frequency:5270MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5310MHz Ant:Chain0

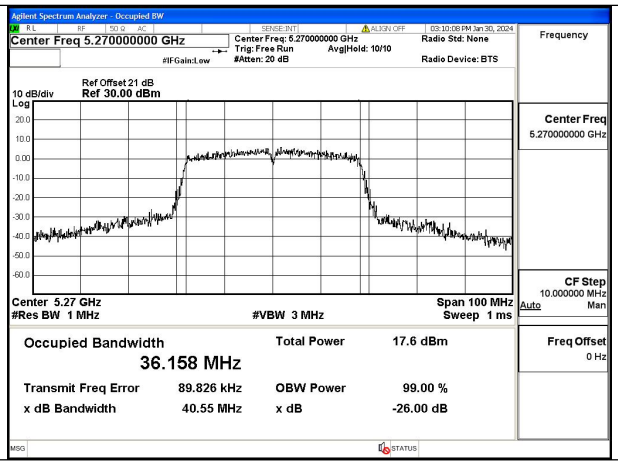


Mode:802.11n HT40 Frequency:5270MHz Ant:Chain1

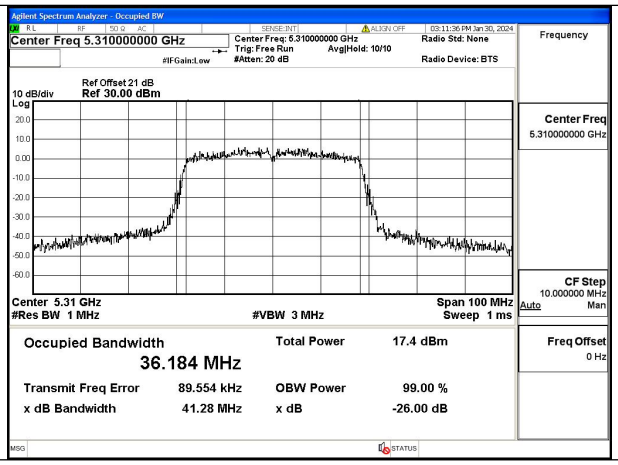


Mode:802.11n HT40 Frequency:5310MHz Ant:Chain1

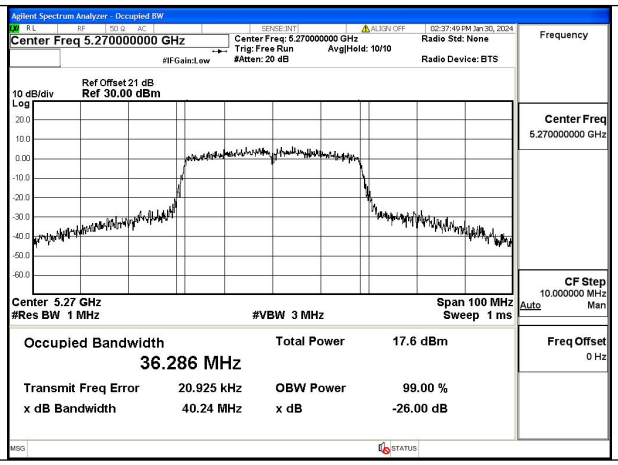
Test Mode: 802.11ac VHT40



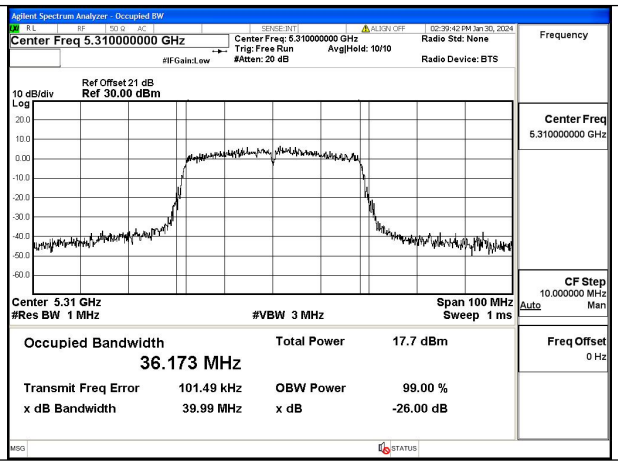
Mode:802.11ac VHT40 Frequency:5270MHz Ant:Chain0



Mode:802.11ac VHT40 Frequency:5310MHz Ant:Chain0

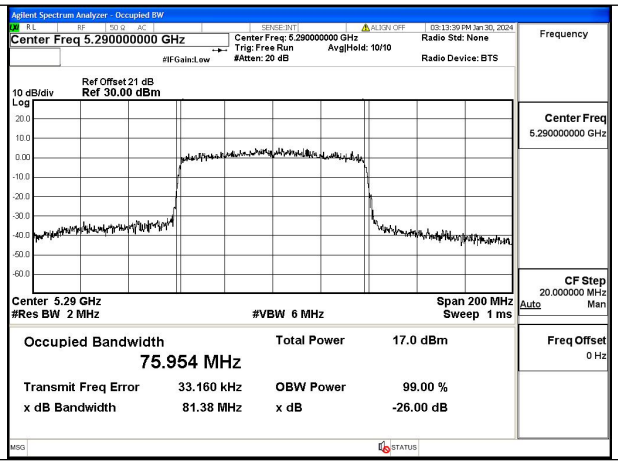


Mode:802.11ac VHT40 Frequency:5270MHz Ant:Chain1

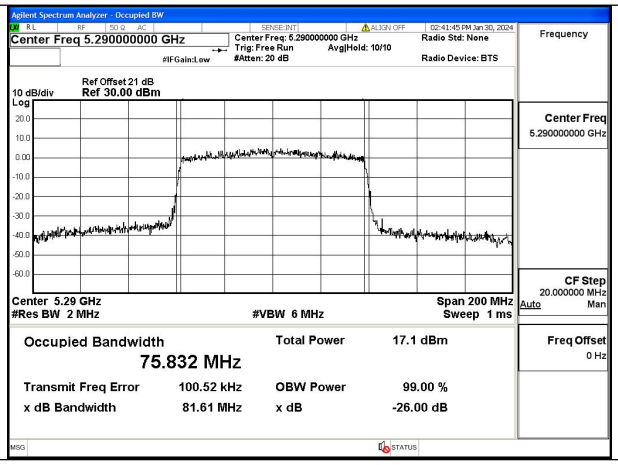


Mode:802.11ac VHT40 Frequency:5310MHz Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5290MHz
Ant:Chain1