APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	5180	95.08%	0.22	Fig.1
802. 11n HT20	5180	96.69%	0.15	Fig.2
802. 11n HT40	5190	91.44%	0.39	Fig.3
802. 11ac VHT20	5180	98.92%	0.05	Fig.4
802. 11ac VHT40	5190	91.45%	0.39	Fig.5
802. 11ac VHT80	5210	85.57%	0.68	Fig.6

Output Power
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| Mode	Freq (MHz)	Chain	Conducted average power output(dBm)
802.11a	5180	Chain0	14.22
	5220	Chain0	12.39
	5240	Chain0	12.10
802.11n20M	5180	Chain0	13.53
	5240	Chain0	10.89
802.11n40M	5190	Chain0	12.50
	5230	Chain0	10.42
802.11ac20M	5180	Chain0	13.38
	5220	Chain0	11.62
	5240	Chain0	11.29
802.11ac40M	5190	Chain0	12.28
	5230	Chain0	10.90
802.11ac80M	5210	Chain0	11.36

Emission Bandwidth

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

Test Mode:802.11a

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5180	Chain0	25.47
5220	Chain0	20.02
5240	Chain0	23.38

Test Mode:802.11a Chain0	Test Mode:802.11a Chain0
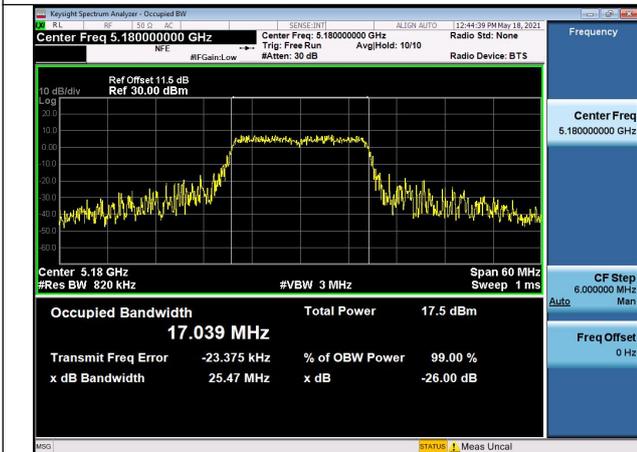
Test Mode:802.11a Chain0	
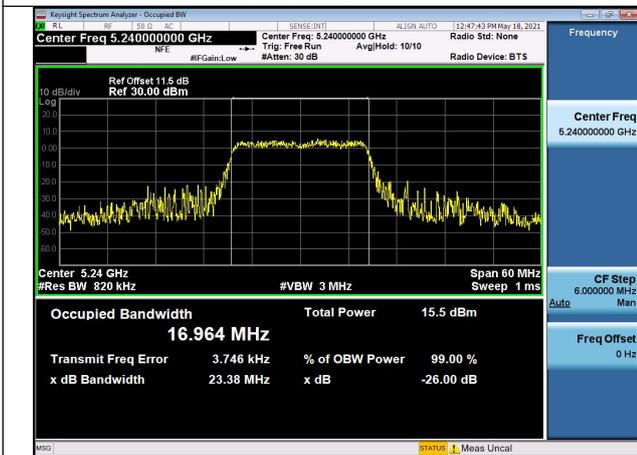
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5180	Chain0	25.10
5240	Chain0	24.17

Test Mode:802. 11n HT20 Chain0	Test Mode:802. 11n HT20 Chain0
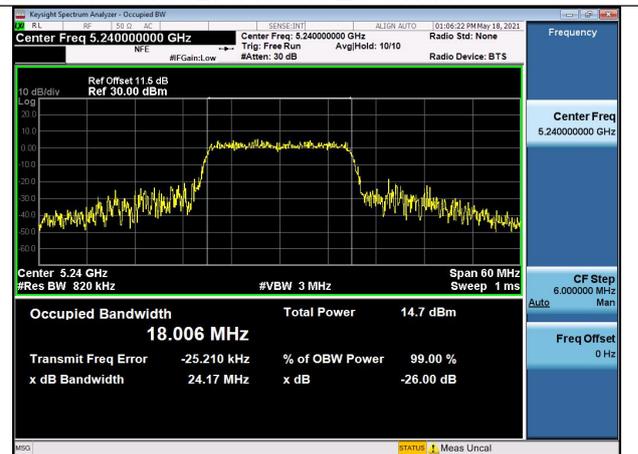
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5190	Chain0	40.28
5230	Chain0	45.22

Test Mode:802. 11n HT40 Chain0	Test Mode:802. 11n HT40 Chain0

Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5180	Chain0	31.88
5220	Chain0	25.92
5240	Chain0	27.17

Test Mode:802. 11ac VHT20 Chain0	Test Mode:802. 11ac VHT20 Chain0
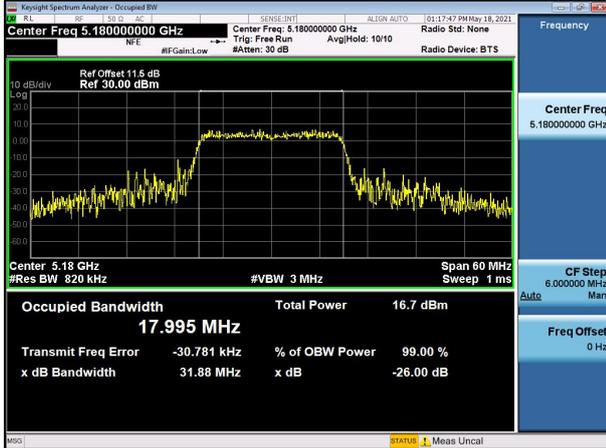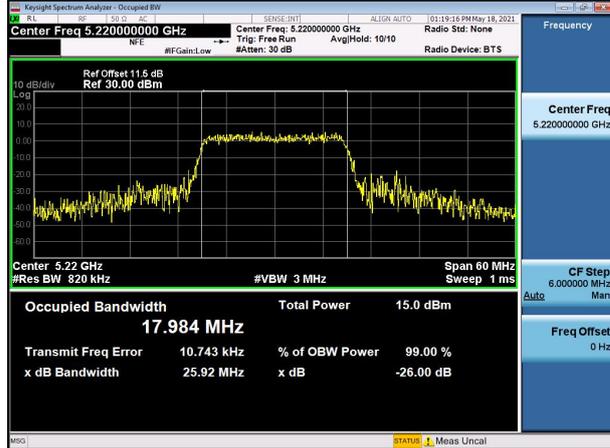
Test Mode:802. 11ac VHT20 Chain0	
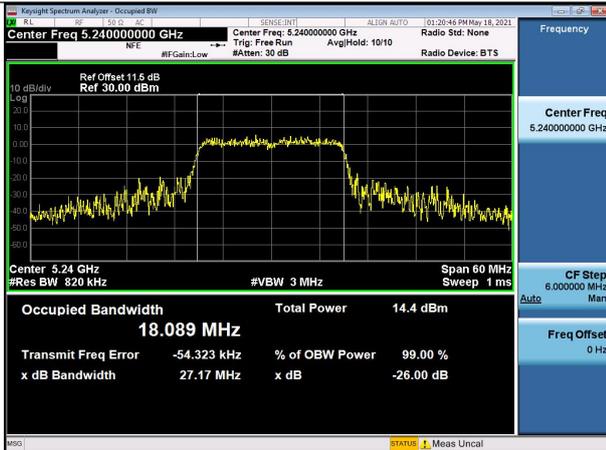
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5190	Chain0	43.09
5230	Chain0	48.23

Test Mode:802. 11ac VHT40 Chain0	Test Mode:802. 11ac VHT40 Chain0
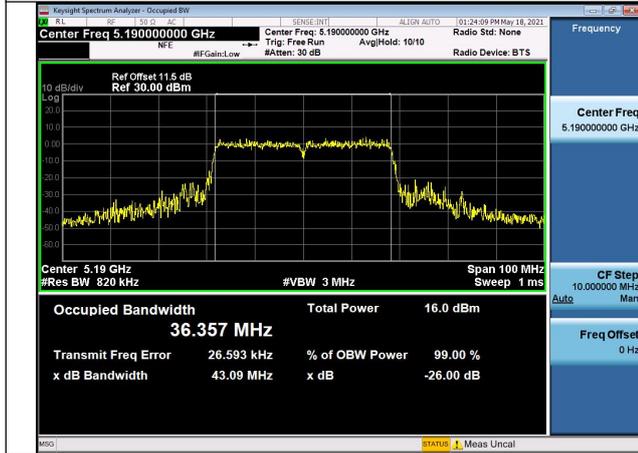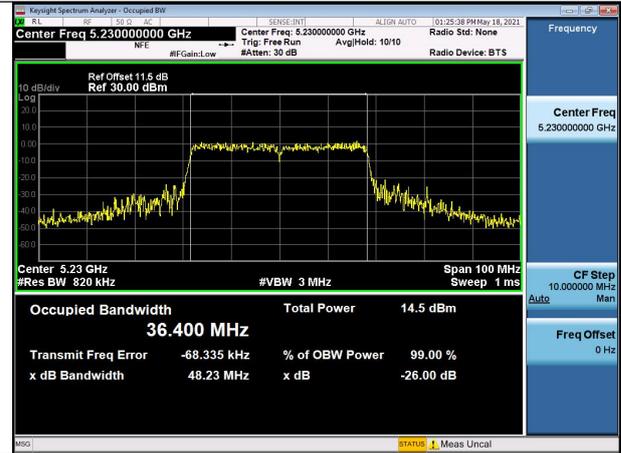
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5210	Chain0	78.67

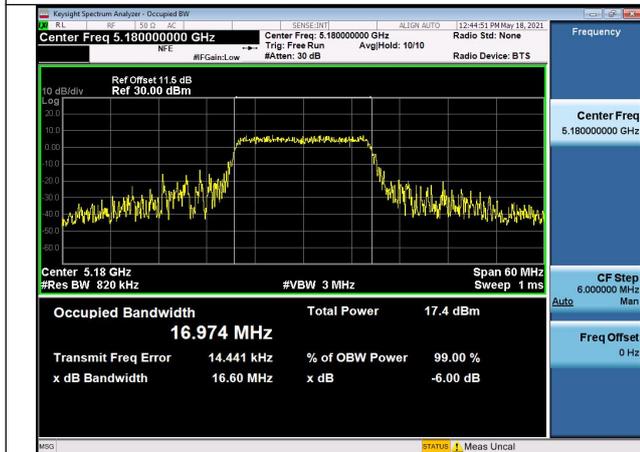| Test Mode:802. 11ac VHT80 Chain0	
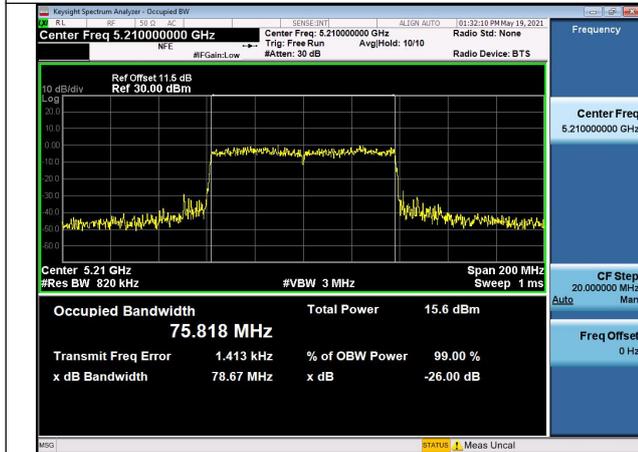
Occupied Bandwidth

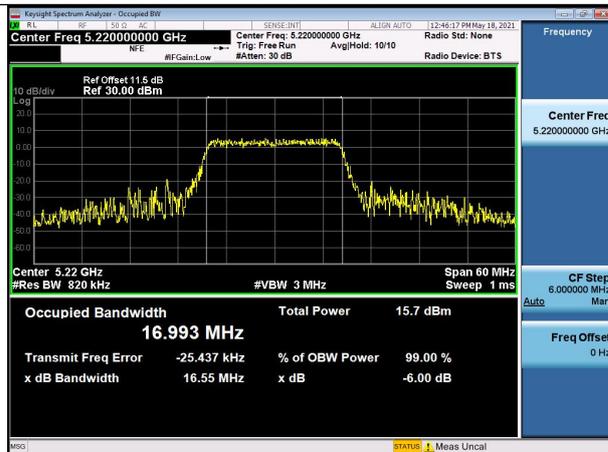Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

Test Mode:802.11a

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5180	Chain0	16.974
5220	Chain0	16.993
5240	Chain0	17.000

Test Mode:802.11a Chain0	Test Mode:802.11a Chain0

Test Mode:802.11a Chain0	
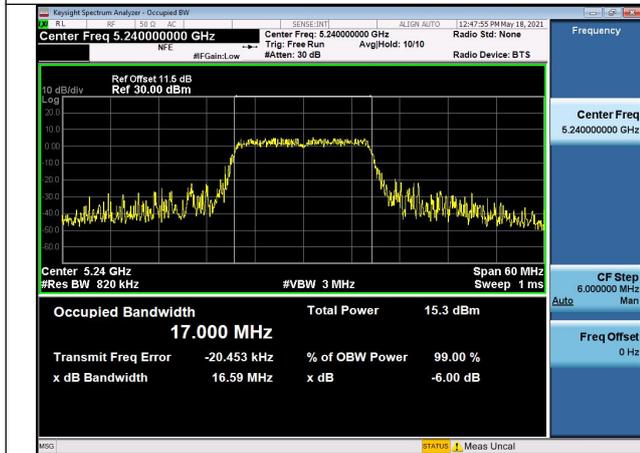
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5180	Chain0	17.988
5240	Chain0	17.990

Test Mode:802. 11n HT20 Chain0	Test Mode:802. 11n HT20 Chain0
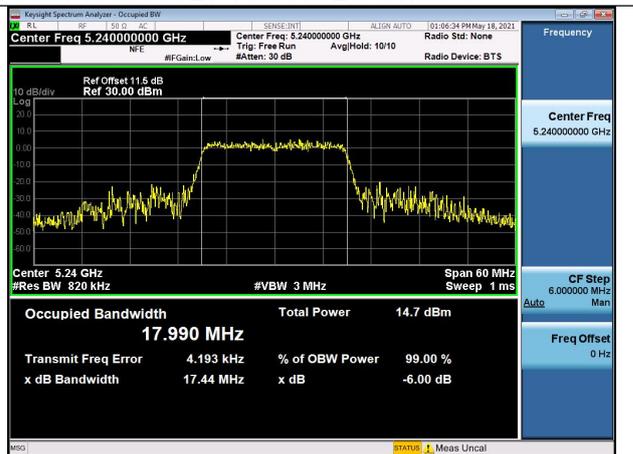
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5190	Chain0	36.433
5230	Chain0	36.456

Test Mode:802. 11n HT40 Chain0	Test Mode:802. 11n HT40 Chain0

Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5180	Chain0	18.037
5220	Chain0	18.074
5240	Chain0	18.058

Test Mode:802. 11ac VHT20 Chain0	Test Mode:802. 11ac VHT20 Chain0
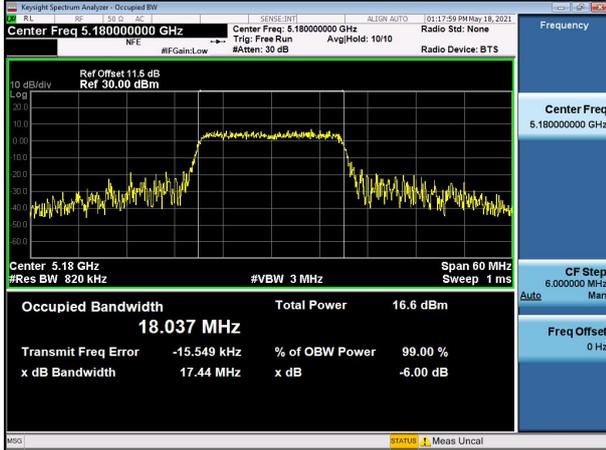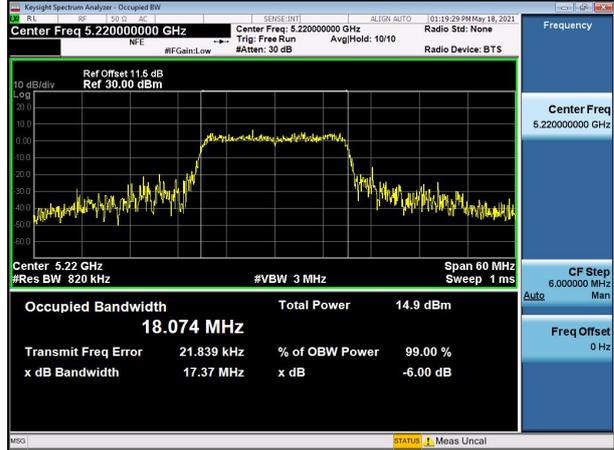
Test Mode:802. 11ac VHT20 Chain0	
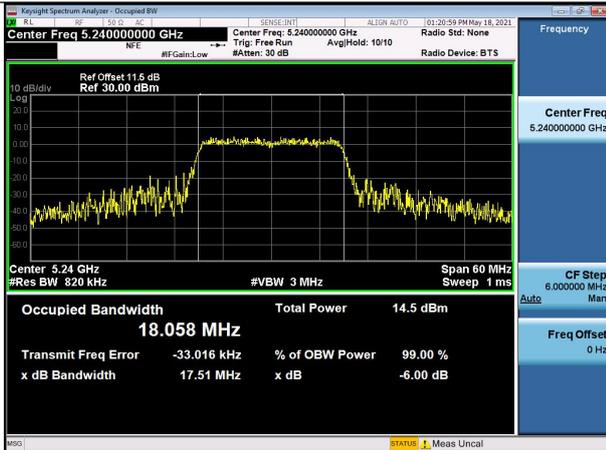
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5190	Chain0	36.348
5230	Chain0	36.432

Test Mode:802. 11ac VHT40 Chain0	Test Mode:802. 11ac VHT40 Chain0
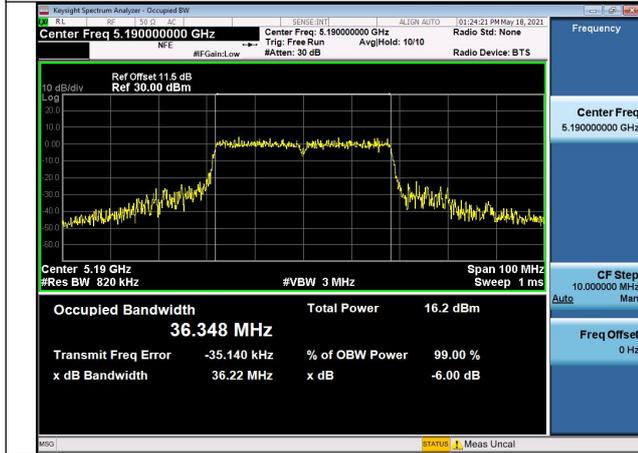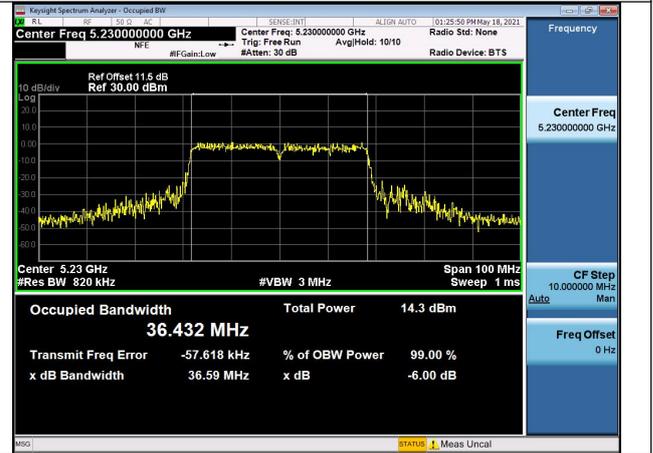
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5210	Chain0	75.718

Test Mode:802. 11ac VHT80 Chain0
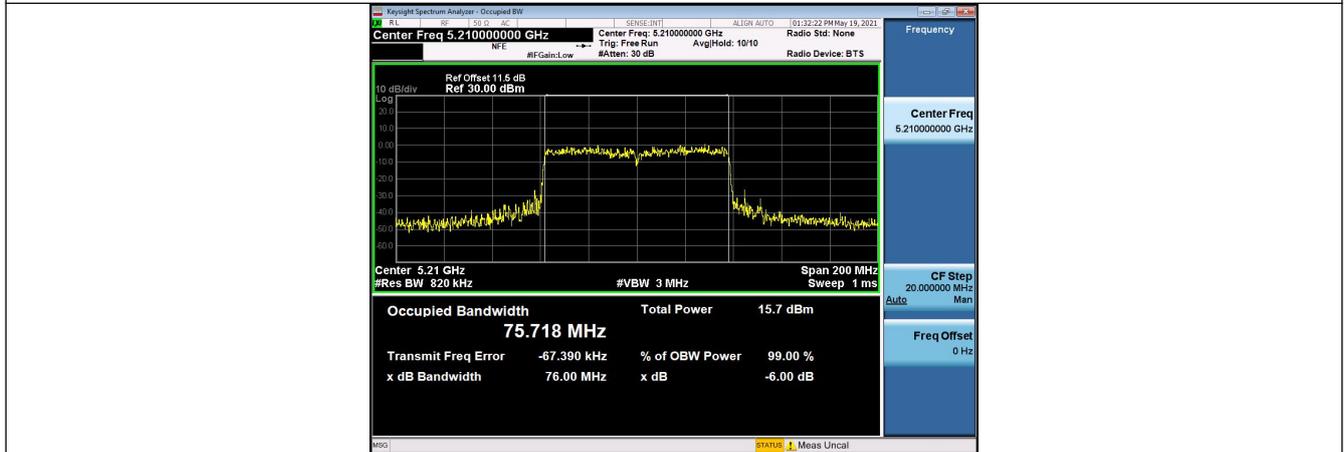
Transmitter Power Spectral Density

Offset 11.5dB = Attenuator 10dB+ Temporary antenna connector loss 0.5dB+ Cable loss 1dB

Test Mode:802.11a

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5180		Chain0	3.894
5220	0.22	Chain0	2.048
5240		Chain0	1.782

Test Mode:802.11a Chain0	Test Mode:802.11a Chain0

Test Mode:802.11a Chain0	

Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5180	0.15	Chain0	2.957
5240		Chain0	0.858

Test Mode:802. 11n HT20 Chain0	Test Mode:802. 11n HT20 Chain0
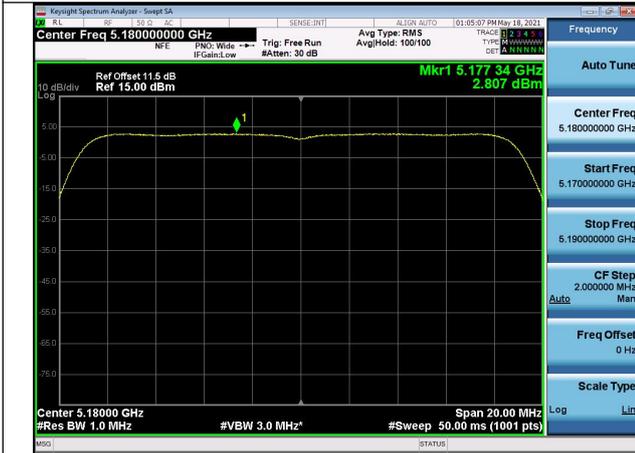
Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5190	0.39	Chain0	-0.552
5230		Chain0	-2.062

Test Mode:802. 11n HT40 Chain0	Test Mode:802. 11n HT40 Chain0

Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5180		Chain0	2.744
5220	0.05	Chain0	0.988
5240		Chain0	0.556

Test Mode:802. 11ac VHT20 Chain0	Test Mode:802. 11ac VHT20 Chain0

Test Mode:802. 11ac VHT20 Chain0	

Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5190	0.39	Chain0	-0.647
5230		Chain0	-1.874

Test Mode:802. 11ac VHT40 Chain0	Test Mode:802. 11ac VHT40 Chain0

Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5210	0.68	Chain0	-3.387

Test Mode:802. 11ac VHT80 Chain0
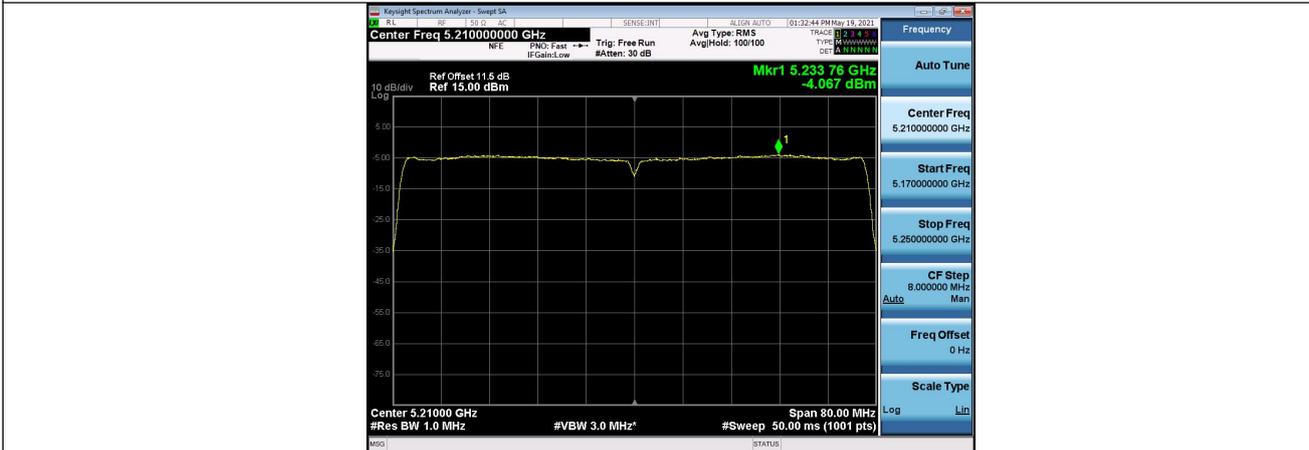
Frequency Stability

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Mode	Data Rate	Chain	Center Frequency (MHz)	Measured Frequency (MHz)	Frequency Stability (ppm)	Voltage (V)	Temperature (°C)
802.11a	6Mbps	Chain0	5180	5179.98151	3.57	HV	+20
			5180	5179.98157	3.56	LV	+20
			5180	5179.98145	3.58	NV	+30
			5180	5179.98130	3.61	NV	+40
			5180	5179.98140	3.59	NV	+50
			5180	5179.98165	3.54	NV	+55
			5180	5179.98179	3.52	NV	+20
			5180	5179.98168	3.54	NV	+10
			5180	5179.98184	3.51	NV	0
			5180	5179.98171	3.53	NV	-10