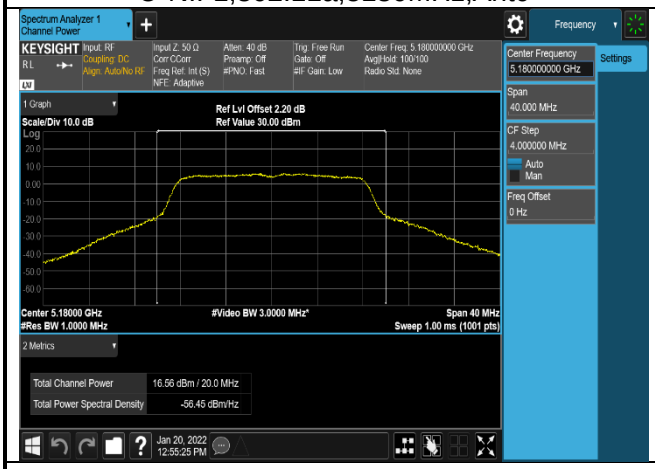
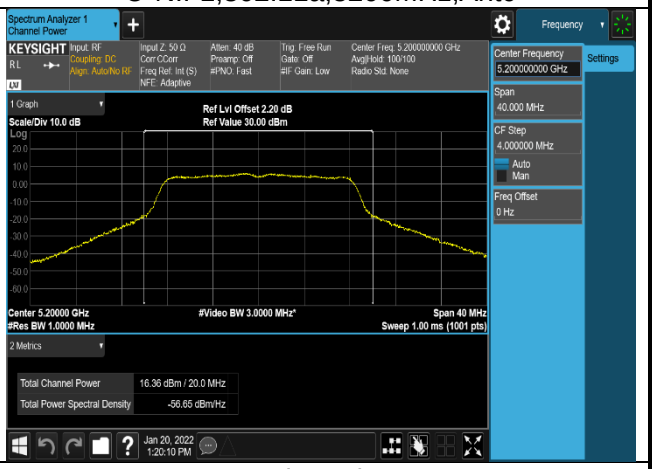
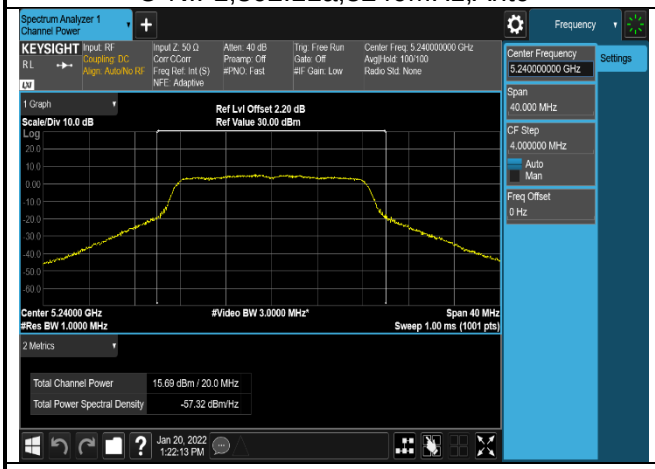
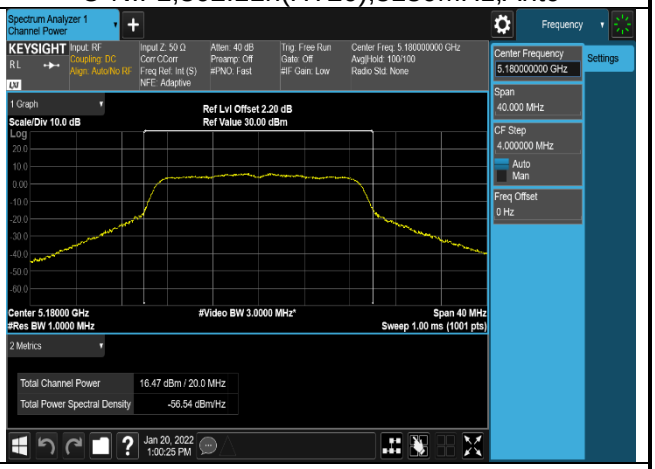
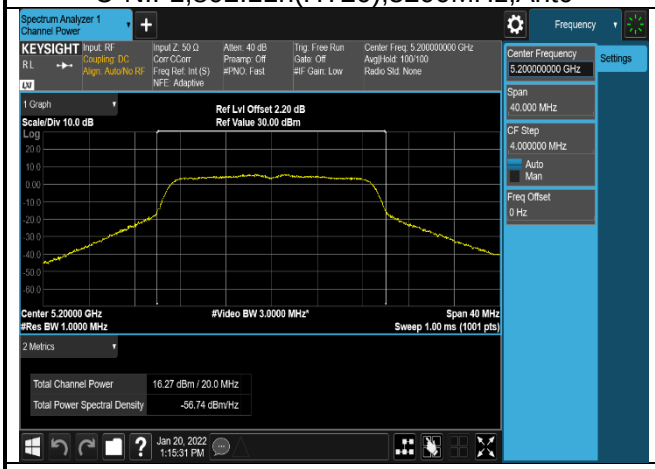
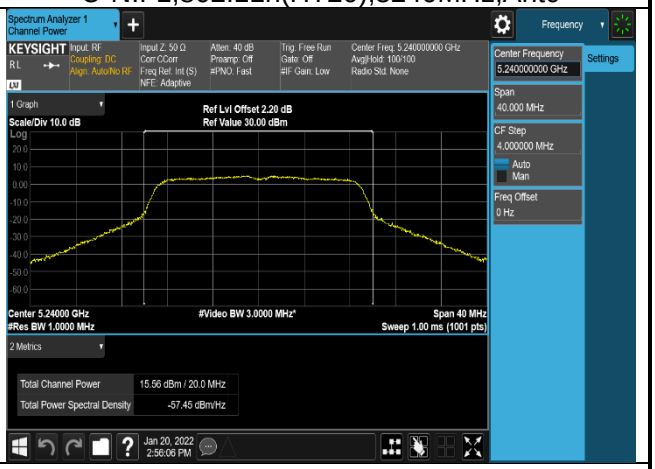
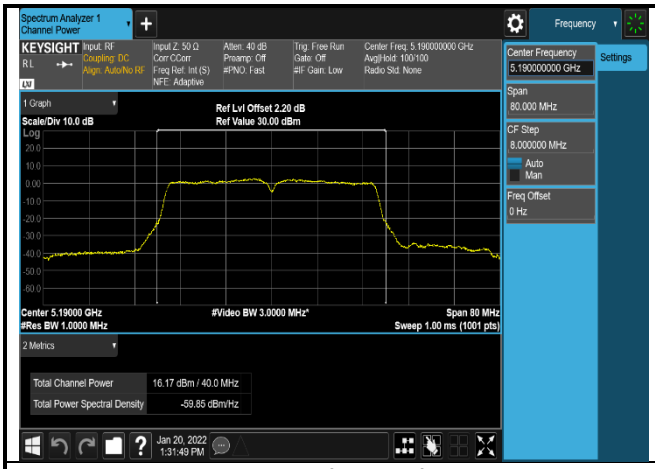
1.4 AVGSA Output Power

Test Data

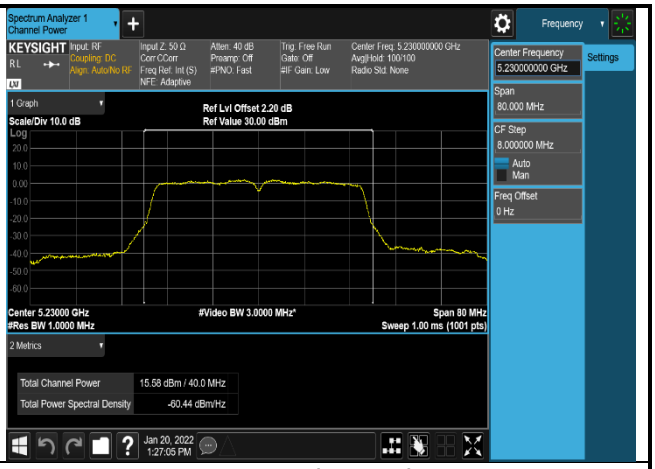
U-NII-1 AVGSA Output Power							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11a	5180	Ant0	0.83	17.39	24	21.01	Pass
802.11a	5200	Ant0	0.61	16.97	24	20.81	Pass
802.11a	5240	Ant0	0.83	16.52	24	20.14	Pass
802.11n (HT20)	5180	Ant0	0.83	17.30	24	20.92	Pass
802.11n (HT20)	5200	Ant0	0.61	16.88	24	20.50	Pass
802.11n (HT20)	5240	Ant0	0.61	16.17	24	19.79	Pass
802.11n (HT40)	5190	Ant0	1.35	17.52	24	21.14	Pass
802.11n (HT40)	5230	Ant0	1.35	16.93	24	20.55	Pass
802.11ac (VHT20)	5180	Ant0	0.58	17.11	24	20.73	Pass
802.11ac (VHT20)	5200	Ant0	0.58	16.88	24	20.50	Pass
802.11ac (VHT20)	5240	Ant0	0.79	16.46	24	20.08	Pass
802.11ac (VHT40)	5190	Ant0	0.90	17.08	24	20.70	Pass
802.11ac (VHT40)	5230	Ant0	0.97	16.59	24	20.21	Pass
802.11ac (VHT80)	5210	Ant0	1.76	17.32	24	20.94	Pass

Test Plots

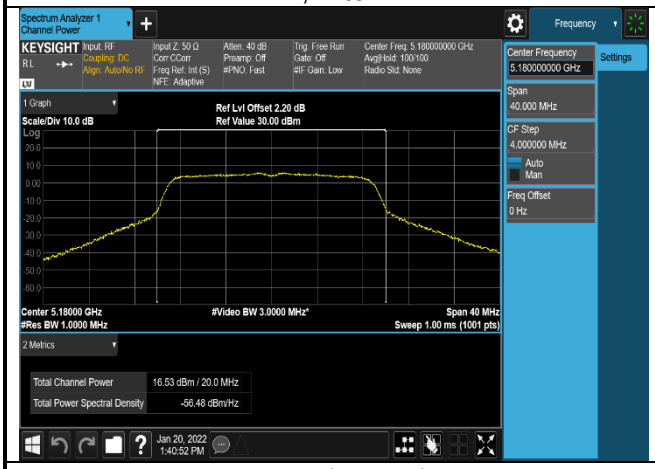
U-NII-1,802.11a,5180MHz,Ant0	U-NII-1,802.11a,5200MHz,Ant0
	
U-NII-1,802.11a,5240MHz,Ant0	U-NII-1,802.11n(HT20),5180MHz,Ant0
	
U-NII-1,802.11n(HT20),5200MHz,Ant0	U-NII-1,802.11n(HT20),5240MHz,Ant0
	
U-NII-1,802.11n(HT40),5190MHz,Ant0	U-NII-1,802.11n(HT40),5230MHz,Ant0



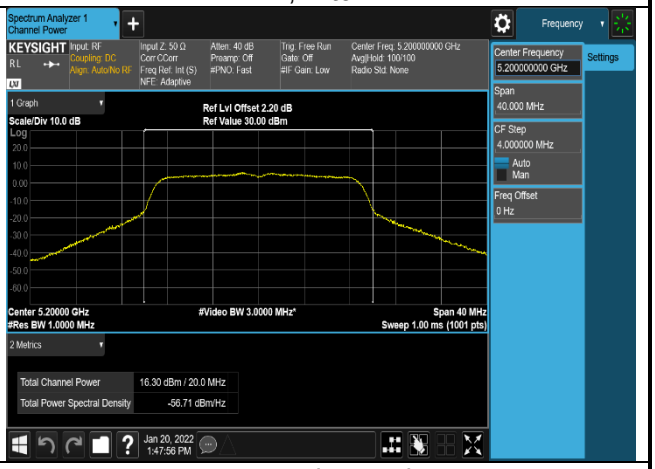
U-NII-1,802.11ac(VHT20),5180MHz ,Ant0



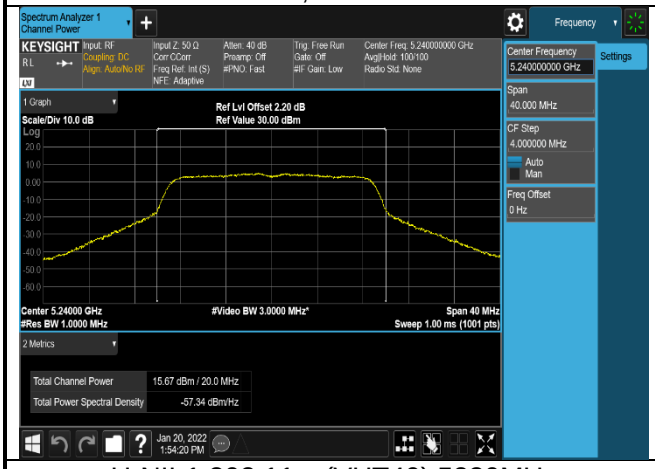
U-NII-1,802.11ac(VHT20),5200MHz ,Ant0



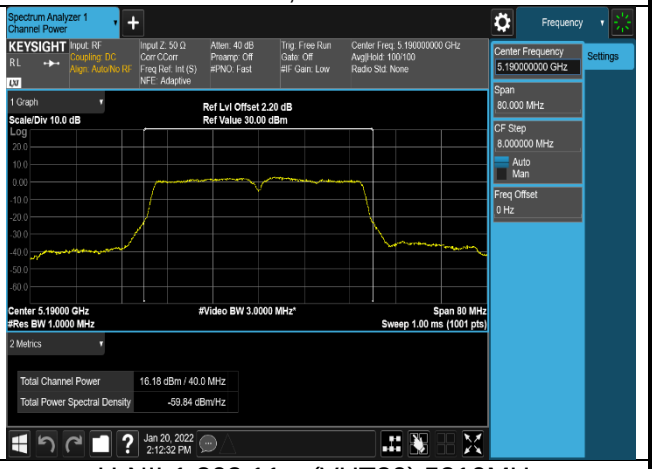
U-NII-1,802.11ac(VHT20),5240MHz ,Ant0



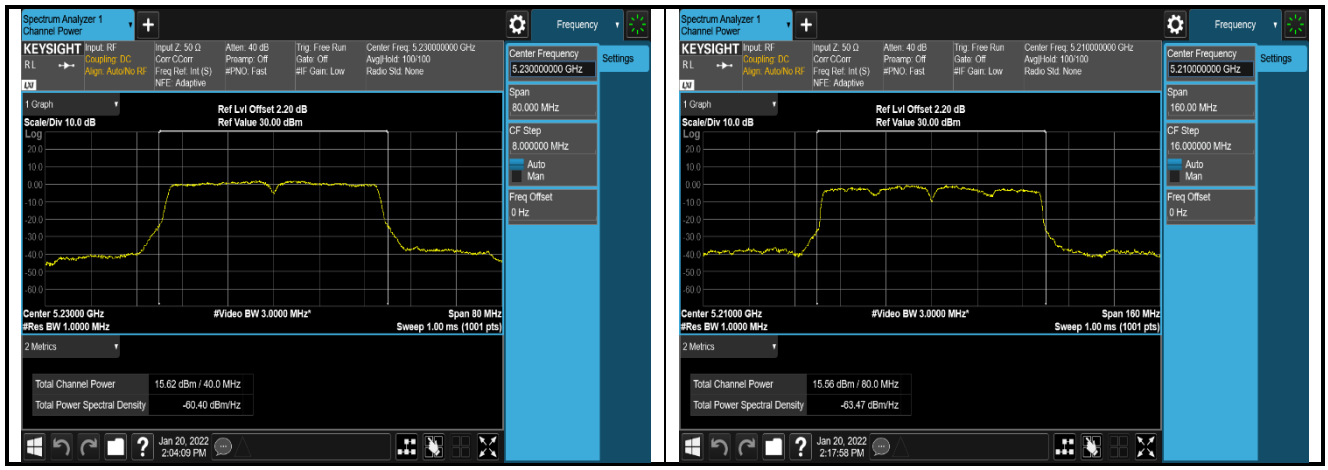
U-NII-1,802.11ac(VHT40),5190MHz ,Ant0



U-NII-1,802.11ac(VHT40),5230MHz ,Ant0



U-NII-1,802.11ac(VHT80),5210MHz ,Ant0



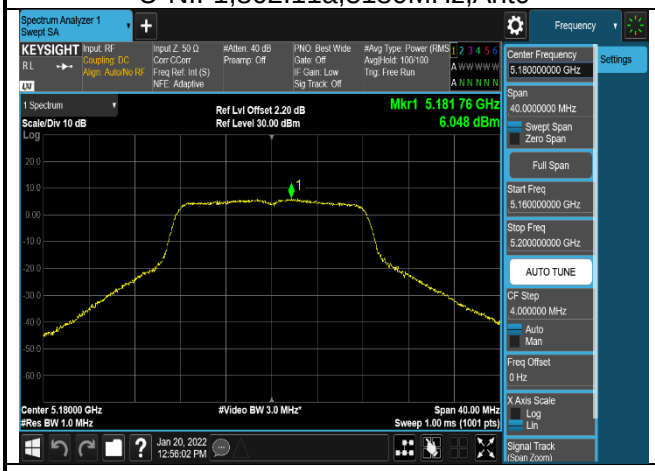
1.5 AVGSA Power Spectral Density

Test Data

U-NII-1 AVGSA Power Spectral Density							
Mode	Test Frequency (MHz)	Ant	Duty Cycle Factor (dB)	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11a	5180	Ant0	0.83	6.878	1000	11	Pass
802.11a	5200	Ant0	0.61	6.564	1000	11	Pass
802.11a	5240	Ant0	0.83	6.223	1000	11	Pass
802.11n (HT20)	5180	Ant0	0.83	6.949	1000	11	Pass
802.11n (HT20)	5200	Ant0	0.61	6.412	1000	11	Pass
802.11n (HT20)	5240	Ant0	0.61	5.770	1000	11	Pass
802.11n (HT40)	5190	Ant0	1.35	3.860	1000	11	Pass
802.11n (HT40)	5230	Ant0	1.35	3.370	1000	11	Pass
802.11ac (VHT20)	5180	Ant0	0.58	6.420	1000	11	Pass
802.11ac (VHT20)	5200	Ant0	0.58	6.511	1000	11	Pass
802.11ac (VHT20)	5240	Ant0	0.79	6.027	1000	11	Pass
802.11ac (VHT40)	5190	Ant0	0.90	3.833	1000	11	Pass
802.11ac (VHT40)	5230	Ant0	0.97	3.241	1000	11	Pass
802.11ac (VHT80)	5210	Ant0	1.76	0.910	1000	11	Pass

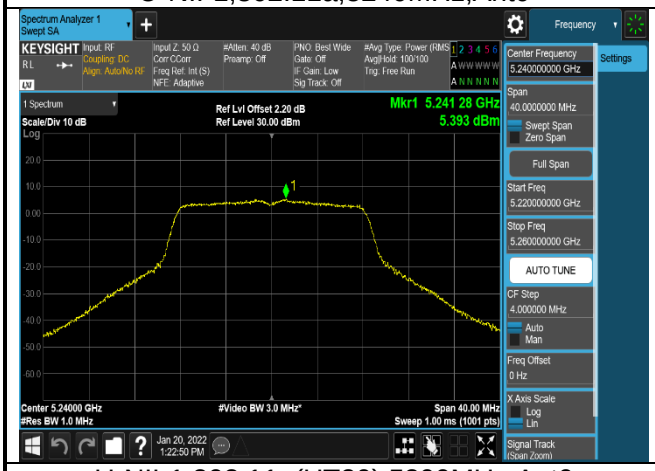
Test Plots

U-NII-1,802.11a,5180MHz,Ant0

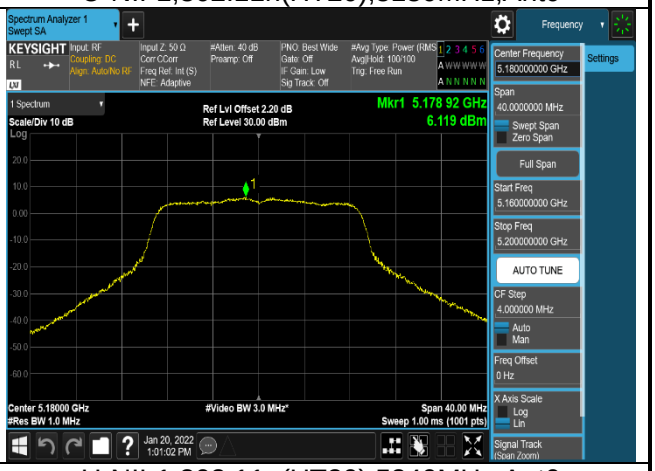


U-NII-1,802.11a,5200MHz,Ant0

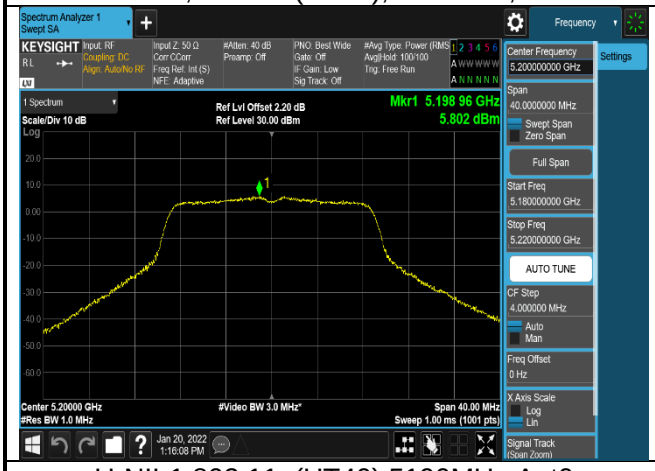
U-NII-1,802.11a,5240MHz,Ant0



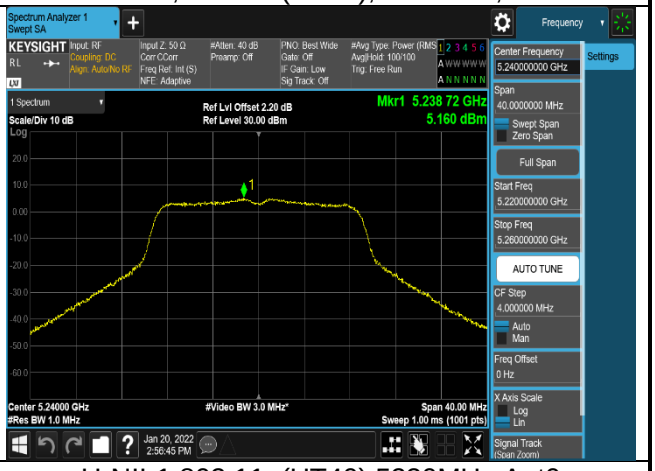
U-NII-1,802.11n(HT20),5180MHz,Ant0



U-NII-1,802.11n(HT20),5200MHz,Ant0

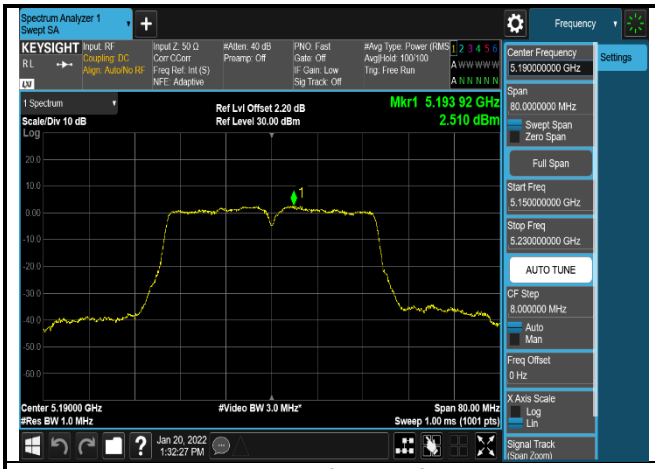


U-NII-1,802.11n(HT20),5240MHz,Ant0

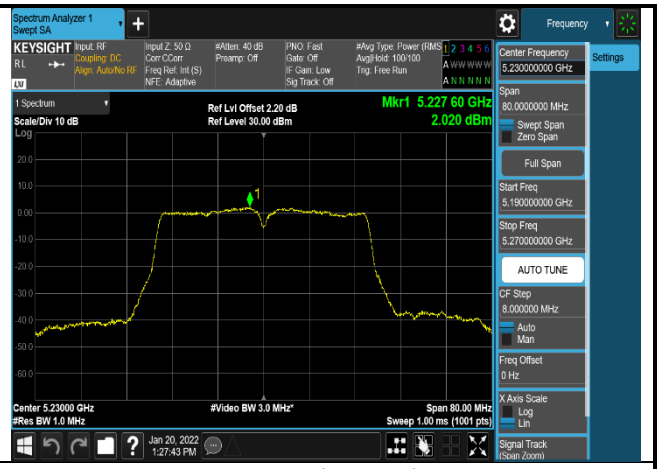


U-NII-1,802.11n(HT40),5190MHz,Ant0

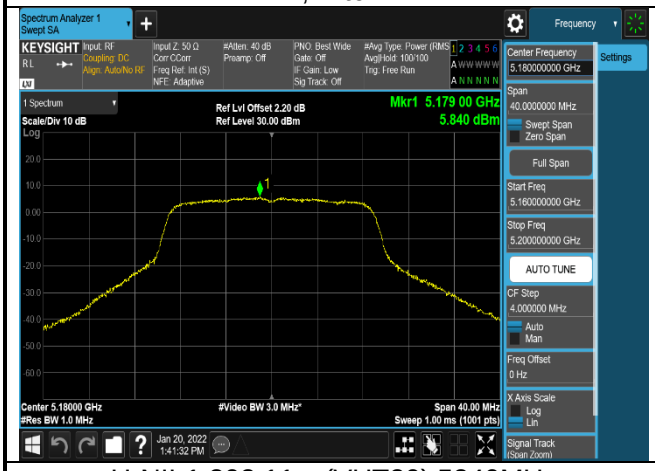
U-NII-1,802.11n(HT40),5230MHz,Ant0



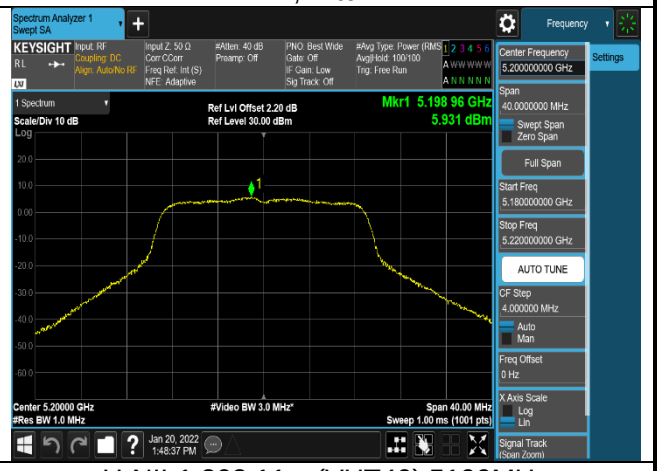
U-NII-1,802.11ac(VHT20),5180MHz ,Ant0



U-NII-1,802.11ac(VHT20),5200MHz ,Ant0

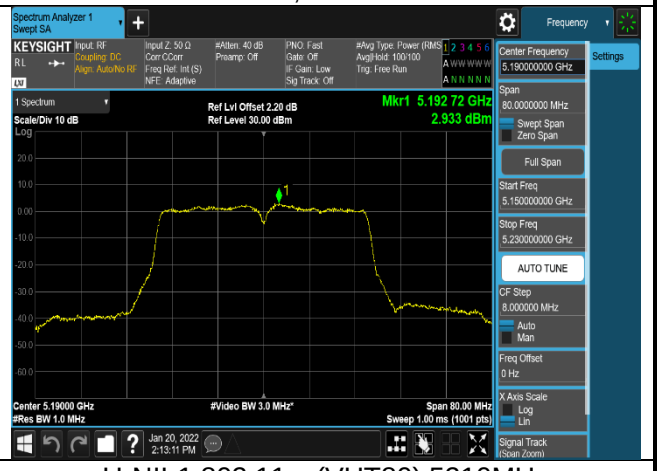


U-NII-1,802.11ac(VHT20),5240MHz ,Ant0



U-NII-1,802.11ac(VHT40),5190MHz ,Ant0

U-NII-1,802.11ac(VHT40),5230MHz ,Ant0



U-NII-1,802.11ac(VHT80),5210MHz ,Ant0

1.6 Centre Frequency

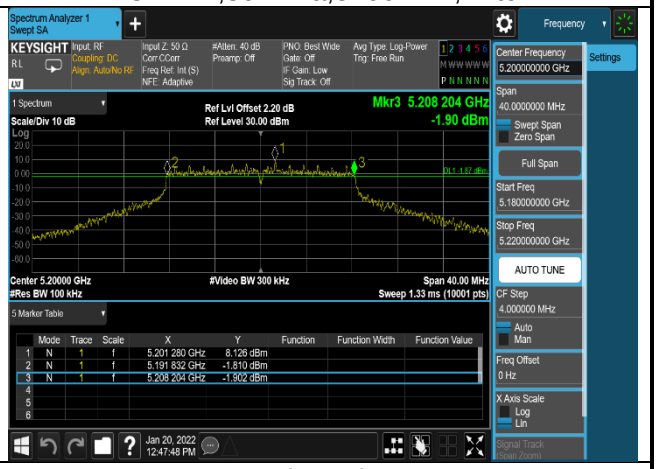
Test Data

U-NII-1 Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Frequency Stability (ppm)	Test Result
802.11a	5180	Ant0	5171.820	5188.232	5180.026	5.020	Pass
802.11a	5200	Ant0	5191.832	5208.204	5200.018	3.460	Pass
802.11a	5240	Ant0	5231.752	5248.276	5240.014	2.670	Pass
802.11n (HT20)	5180	Ant0	5171.208	5188.836	5180.022	4.250	Pass
802.11n (HT20)	5200	Ant0	5191.152	5208.824	5199.988	-2.310	Pass
802.11n (HT20)	5240	Ant0	5231.216	5248.816	5240.016	3.050	Pass
802.11n (HT40)	5190	Ant0	5171.832	5208.208	5190.020	3.850	Pass
802.11n (HT40)	5230	Ant0	5211.824	5248.216	5230.020	3.820	Pass
802.11ac (VHT20)	5180	Ant0	5171.220	5188.816	5180.018	3.470	Pass
802.11ac (VHT20)	5200	Ant0	5191.216	5208.820	5200.018	3.460	Pass
802.11ac (VHT20)	5240	Ant0	5231.212	5248.824	5240.018	3.440	Pass
802.11ac (VHT40)	5190	Ant0	5171.816	5208.192	5190.004	0.770	Pass
802.11ac (VHT40)	5230	Ant0	5211.816	5248.216	5230.016	3.060	Pass
802.11ac (VHT80)	5210	Ant0	5171.840	5248.192	5210.016	3.070	Pass

Test Plots

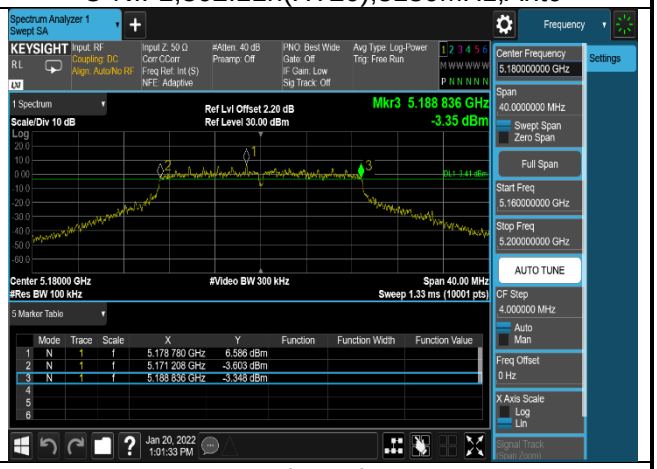
U-NII-1,802.11a,5180MHz,Ant0

U-NII-1,802.11a,5200MHz,Ant0



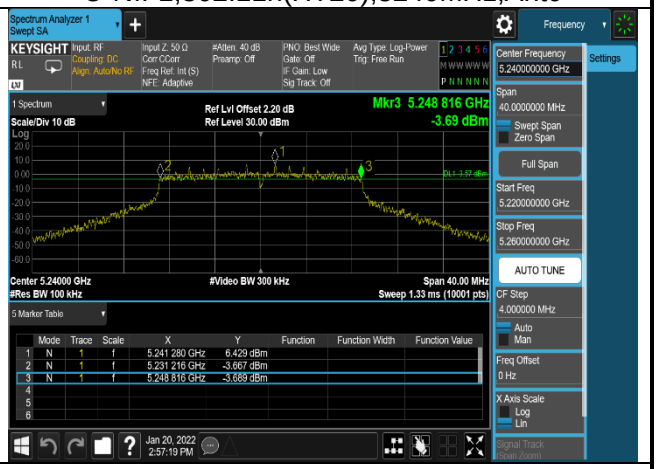
U-NII-1,802.11a,5240MHz,Ant0

U-NII-1,802.11n(HT20),5180MHz,Ant0



U-NII-1,802.11n(HT20),5200MHz,Ant0

U-NII-1,802.11n(HT20),5240MHz,Ant0



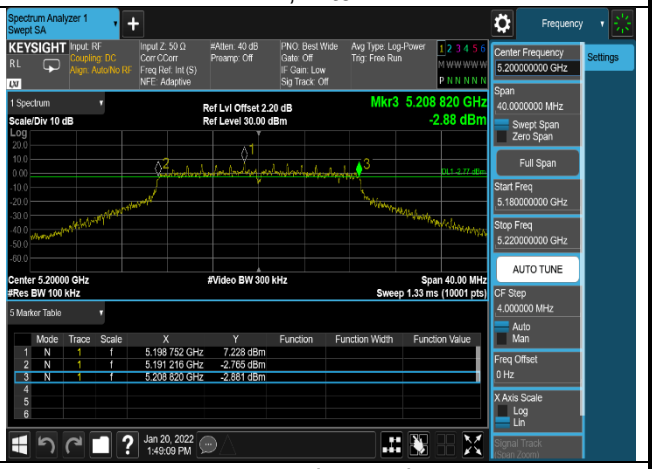
U-NII-1,802.11n(HT40),5190MHz,Ant0

U-NII-1,802.11n(HT40),5230MHz,Ant0

U-NII-1,802.11ac(VHT20),5180MHz ,Ant0

U-NII-1,802.11ac(VHT20),5200MHz ,Ant0

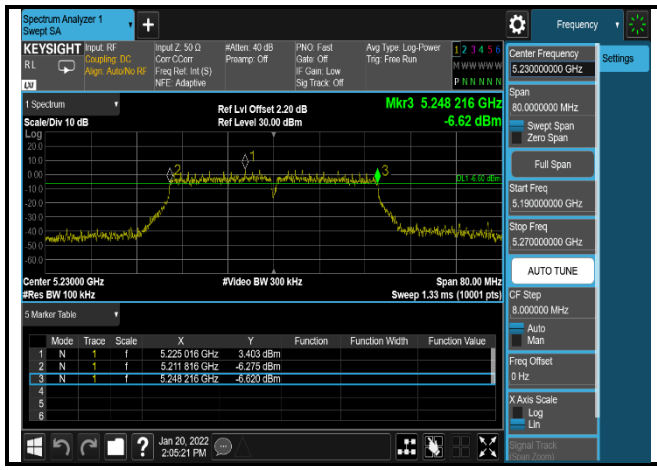
U-NII-1,802.11ac(VHT20),5240MHz ,Ant0



U-NII-1,802.11ac(VHT40),5190MHz ,Ant0

U-NII-1,802.11ac(VHT40),5230MHz ,Ant0

U-NII-1,802.11ac(VHT80),5210MHz ,Ant0


Spectrum Analyzer 1
Swept SA
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto/No RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 40 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
Center Frequency
5.230000000 GHz
Settings
Span
80.0000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
5.190000000 GHz
Stop Freq
5.270000000 GHz
AUTO TUNE
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
1 Spectrum
Ref Lvl Offset 2.20 dB
Ref Level 30.00 dBm
Mkr3 5.248 216 GHz
-6.62 dBm
Scale/Div 10 dB
Center 5.23000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 80.00 MHz
Sweep 1.33 ms (10001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 5.225 016 GHz 3.403 dBm
2 N 1 f 5.211 816 GHz -6.275 dBm
3 N 1 f 5.248 216 GHz -6.620 dBm
Jan 20, 2022
2:05:21 PM


Spectrum Analyzer 1
Swept SA
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto/No RF
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
NFE: Adaptive
#Atten: 40 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
Center Frequency
5.210000000 GHz
Settings
Span
160.000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
5.130000000 GHz
Stop Freq
5.290000000 GHz
AUTO TUNE
CF Step
16.000000 MHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
1 Spectrum
Ref Lvl Offset 2.20 dB
Ref Level 30.00 dBm
Mkr3 5.248 192 GHz
-9.06 dBm
Scale/Div 10 dB
Center 5.21000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 160.0 MHz
Sweep 1.33 ms (10001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 5.215 024 GHz 1.395 dBm
2 N 1 f 5.171 840 GHz -8.251 dBm
3 N 1 f 5.248 192 GHz -9.057 dBm
Jan 20, 2022
2:19:10 PM