

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **Duty Cycle**

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5180	99.18%	0
802.11a	5180	99.20%	0
802. 11n HT20	5180	99.04%	0
802. 11n HT20	5180	99.07%	0
802. 11n HT40	5190	98.34%	0
802. 11n HT40	5190	98.31%	0
802. 11ac VHT20	5180	99.12%	0
802. 11ac VHT20	5180	99.11%	0
802. 11ac VHT40	5190	98.28%	0
802. 11ac VHT40	5190	98.27%	0
802. 11ac VHT80	5210	96.83%	0.14
802. 11ac VHT80	5210	96.84%	0.14

## Output Power NII1

Mode	Tones/ RUIndex	Freq (MHz)	Chain	Conducted average power output(dBm)	EIRP (dBm)	
802.11a	NA	5180	Chain0	14.64	15.24	
			Chain1	15.35	15.95	
			Chain0+Chain1	18.02	18.62	
		5240	Chain0	14.37	14.97	
			Chain1	14.87	15.47	
			Chain0+Chain1	17.64	18.24	
802.11n20M	NA	5180	Chain0	14.40	15.00	
			Chain1	15.19	15.79	
			Chain0+Chain1	17.82	18.42	
		5240	Chain0	14.30	14.90	
			Chain1	14.86	15.46	
			Chain0+Chain1	17.60	18.20	
802.11n40M	NA	5190	Chain0	14.36	14.96	
			Chain1	14.84	15.44	
			Chain0+Chain1	17.62	18.22	
802.11ac20M	NA	5230	Chain1	14.91	15.51	
			5180	Chain0	14.77	15.37
				Chain1	15.08	15.68
		Chain0+Chain1		17.94	18.54	
		5240	Chain0	14.59	15.19	
			Chain1	15.11	15.71	
Chain0+Chain1	17.87		18.47			
802.11ac40M	NA	5190	Chain0	14.59	15.19	
			Chain1	15.13	15.73	
			Chain0+Chain1	17.88	18.48	
		5230	Chain0	14.57	15.17	
			Chain1	15.09	15.69	
			Chain0+Chain1	17.85	18.45	
802.11ac80M	NA	5210	Chain0	14.30	14.90	
			Chain1	14.74	15.34	
			Chain0+Chain1	17.54	18.14	

### 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	20.41
	Chain1	20.24
5240	Chain0	20.50
	Chain1	20.46

Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain1



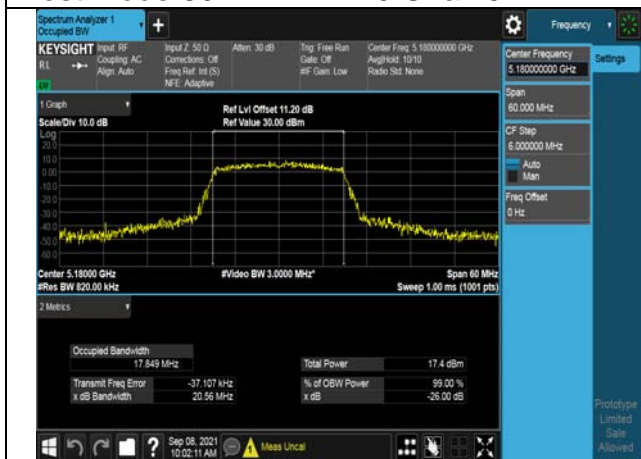
Test Mode:802.11a Chain1



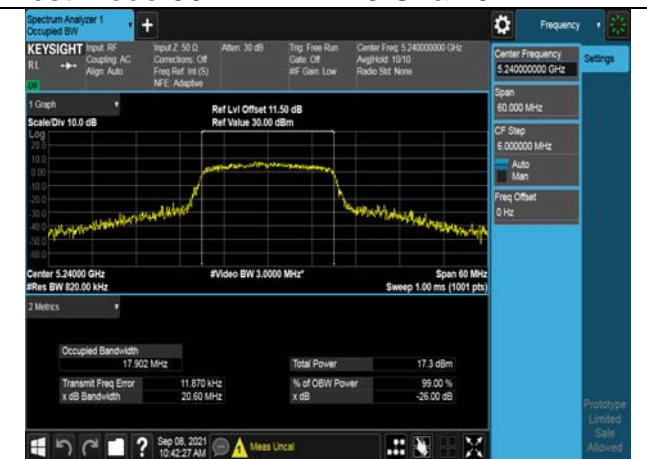
Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5180	Chain0	20.56
	Chain1	20.54
5240	Chain0	20.60
	Chain1	20.42

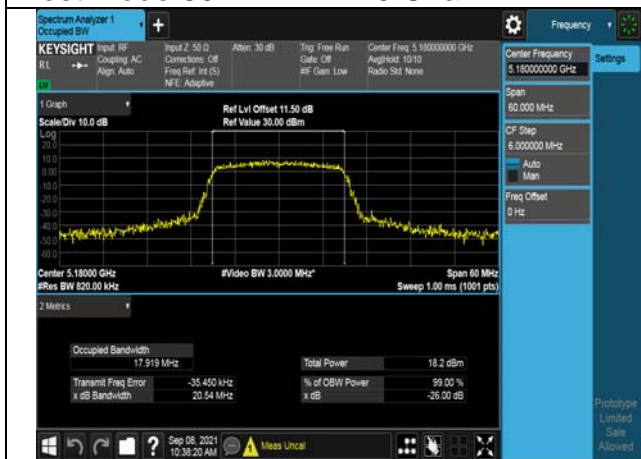
Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



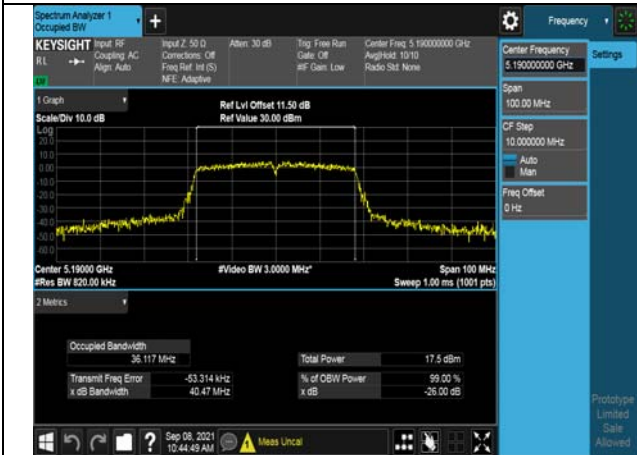
Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5190	Chain0	40.47
	Chain1	40.75
5230	Chain1	40.37

Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



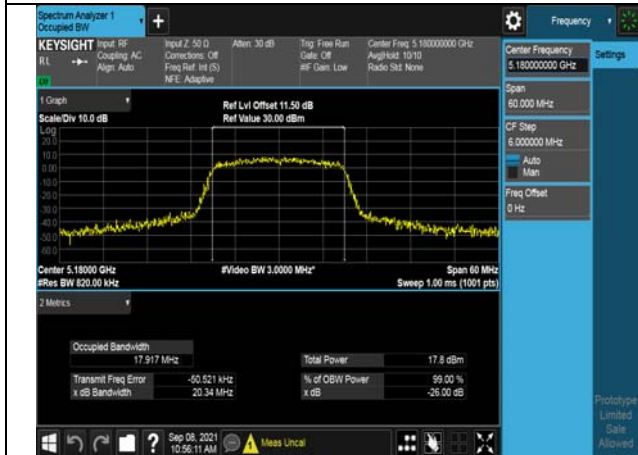
Test Mode:802. 11n HT40 Chain1



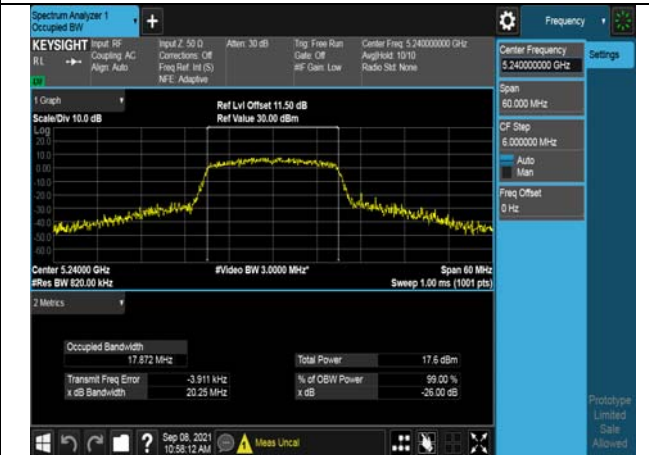
Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5180	Chain0	20.34
	Chain1	20.63
5240	Chain0	20.25
	Chain1	20.48

Test Mode:802. 11ac VHT20 Chain0



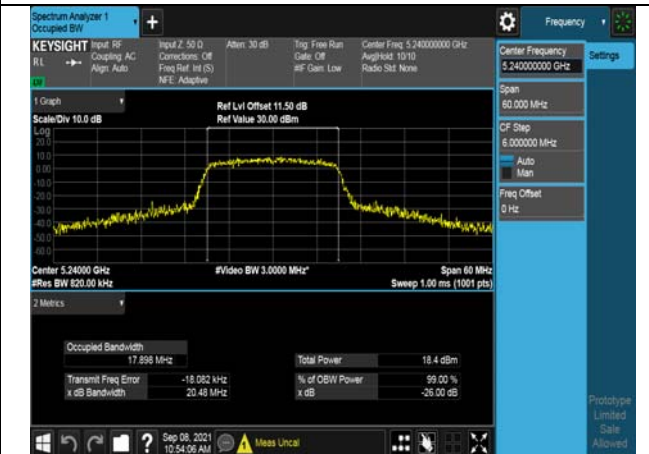
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1



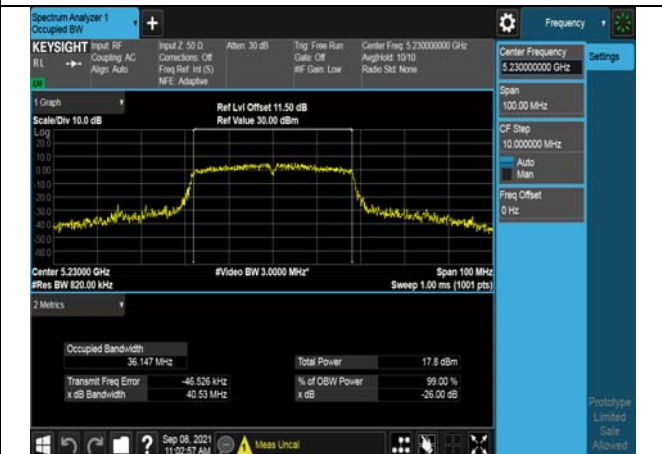
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5190	Chain0	40.48
	Chain1	40.15
5230	Chain0	40.53
	Chain1	40.24

Test Mode:802. 11ac VHT40 Chain0



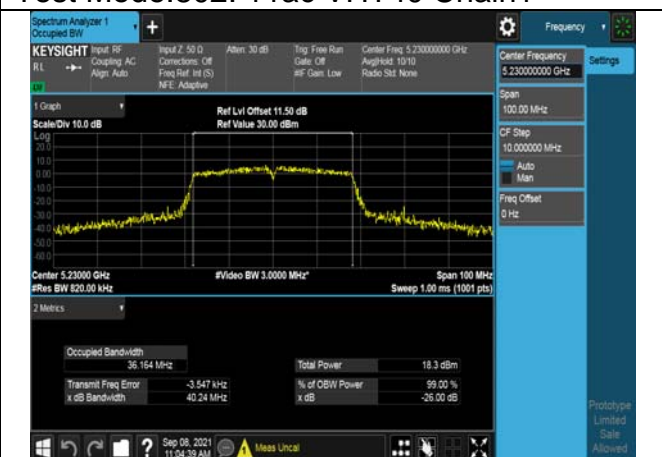
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	26dB Bandwidth (MHz)
5210	Chain0	78.93
	Chain1	79.42

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1





### 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	16.767
	Chain1	16.774
5240	Chain0	16.854
	Chain1	16.746

Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5180	Chain0	17.837
	Chain1	17.906
5240	Chain0	17.801
	Chain1	17.927

Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5190	Chain0	36.063
	Chain1	36.134
5230	Chain1	36.060

Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5180	Chain0	17.890
	Chain1	17.959
5240	Chain0	17.926
	Chain1	17.886

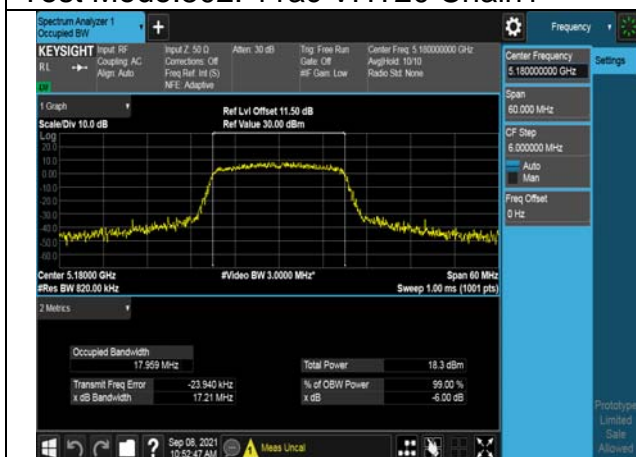
Test Mode:802. 11ac VHT20 Chain0



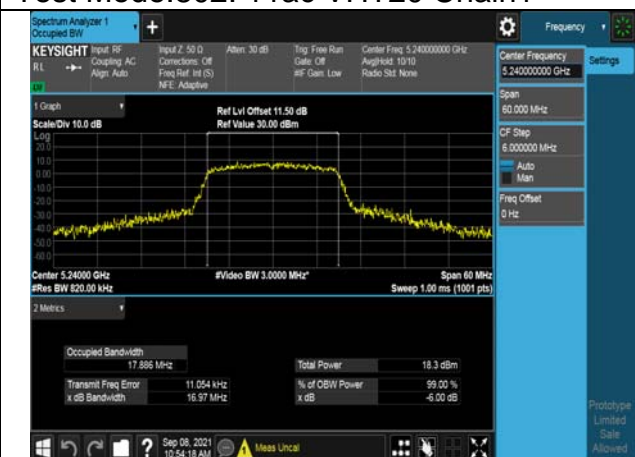
Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain1



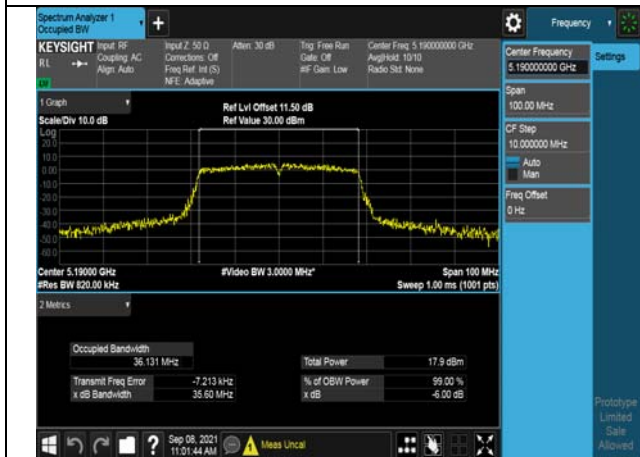
Test Mode:802. 11ac VHT20 Chain1



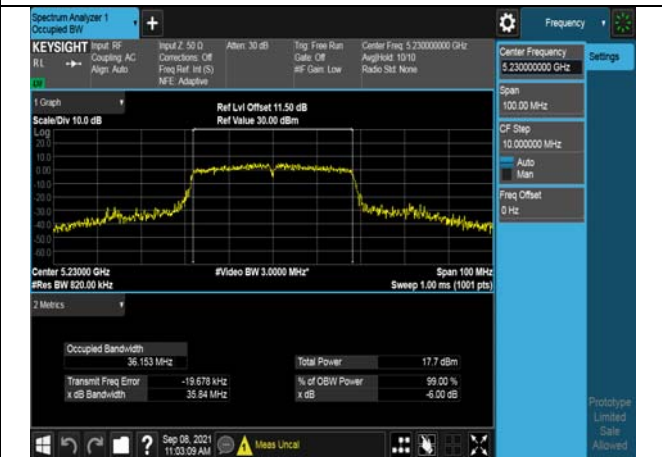
Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5190	Chain0	36.131
	Chain1	36.140
5230	Chain0	36.153
	Chain1	36.142

Test Mode:802. 11ac VHT40 Chain0



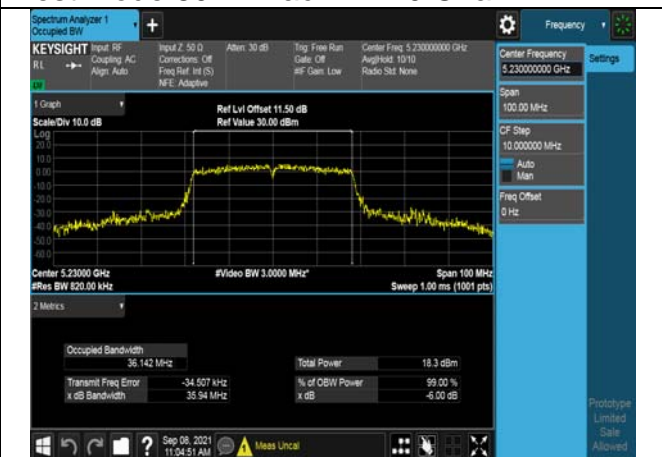
Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT40 Chain1



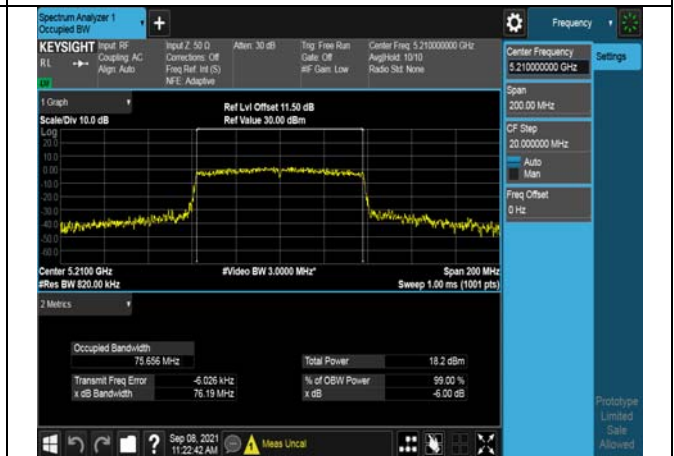
Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Chain	Occupied Bandwidth (MHz)
5210	Chain0	75.349
	Chain1	75.656

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1



### 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	0	Chain0	3.973
		Chain1	4.762
		Chain0+Chain1	7.396
5240		Chain0	3.845
		Chain1	4.389
		Chain0+Chain1	7.136

Test Mode:802.11a Chain0



Test Mode:802.11a Chain0



Test Mode:802.11a Chain1



Test Mode:802.11a Chain1



Test Mode:802. 11n HT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5180	0	Chain0	3.506
		Chain1	4.47
		Chain0+Chain1	7.025
5240	0	Chain0	3.627
		Chain1	4.21
		Chain0+Chain1	6.939

Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain0



Test Mode:802. 11n HT20 Chain1



Test Mode:802. 11n HT20 Chain1





Test Mode:802. 11n HT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5190	0	Chain0	0.745
		Chain1	1.32
		Chain0+Chain1	4.052
5230		Chain1	1.329

Test Mode:802. 11n HT40 Chain0



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11n HT40 Chain1



Test Mode:802. 11ac VHT20

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5180	0	Chain0	4.042
		Chain1	4.711
		Chain0+Chain1	7.400
5240	0	Chain0	3.894
		Chain1	4.462
		Chain0+Chain1	7.198

Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain0



Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT20 Chain1



Test Mode:802. 11ac VHT40

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5190	0	Chain0	1.009
		Chain1	1.447
		Chain0+Chain1	4.244
5230	0	Chain0	0.927
		Chain1	1.439
		Chain0+Chain1	4.201

Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain0



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT40 Chain1



Test Mode:802. 11ac VHT80

Carrier frequency (MHz)	Correction Factor(dB)	Chain	Power Density (dBm)
5210	0.14	Chain0	-2.288
		Chain1	-1.867
		Chain0+Chain1	0.938

Test Mode:802. 11ac VHT80 Chain0



Test Mode:802. 11ac VHT80 Chain1

