

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

CHANNEL AGGREGATION

Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5720	98.68%	0
802.11a	5720	98.68%	0
802.11n HT20	5720	98.61%	0
802.11n HT20	5720	98.58%	0
802.11ac VHT20	5720	98.59%	0
802.11ac VHT20	5720	98.70%	0
802.11n HT40	5710	97.38%	0.12
802.11n HT40	5710	97.28%	0.12
802.11ac VHT40	5710	97.30%	0.12
802.11ac VHT40	5710	97.42%	0.11
802.11ac VHT80	5690	94.96%	0.22
802.11ac VHT80	5690	94.97%	0.22

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

Output Power

NII2C

Title	Test Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
NII2C	802.11a	NA	5720	Chain0	14.16	18.23
NII2C	802.11a	NA	5720	Chain1	14.32	15.32
NII2C	802.11n HT20	NA	5720	Chain0	13.96	18.03
NII2C	802.11n HT20	NA	5720	Chain1	14.12	15.12
NII2C	802.11n HT20	NA	5720	MIMO	17.05	19.23
NII2C	802.11ac VHT20	NA	5720	Chain0	13.97	18.04
NII2C	802.11ac VHT20	NA	5720	Chain1	14.07	15.07
NII2C	802.11ac VHT20	NA	5720	MIMO	17.03	19.21
NII2C	802.11n HT40	NA	5710	Chain0	14.44	18.51
NII2C	802.11n HT40	NA	5710	Chain1	11.92	12.92
NII2C	802.11n HT40	NA	5710	MIMO	16.37	18.55
NII2C	802.11ac VHT40	NA	5710	Chain0	14.50	18.57
NII2C	802.11ac VHT40	NA	5710	Chain1	11.90	12.90
NII2C	802.11ac VHT40	NA	5710	MIMO	16.40	18.58
NII2C	802.11ac VHT80	NA	5690	Chain0	14.27	18.34
NII2C	802.11ac VHT80	NA	5690	Chain1	14.63	15.63
NII2C	802.11ac VHT80	NA	5690	MIMO	17.46	19.64

NII3

Title	Test Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
NII3	802.11a	NA	5720	Chain0	6.55	10.62
NII3	802.11a	NA	5720	Chain1	6.58	7.58
NII3	802.11n HT20	NA	5720	Chain0	6.73	10.80
NII3	802.11n HT20	NA	5720	Chain1	6.92	7.92
NII3	802.11n HT20	NA	5720	MIMO	9.84	12.02
NII3	802.11ac VHT20	NA	5720	Chain0	6.73	10.80
NII3	802.11ac VHT20	NA	5720	Chain1	6.83	7.83
NII3	802.11ac VHT20	NA	5720	MIMO	9.79	11.97
NII3	802.11n HT40	NA	5710	Chain0	2.23	6.30
NII3	802.11n HT40	NA	5710	Chain1	2.35	3.35
NII3	802.11n HT40	NA	5710	MIMO	5.30	7.48
NII3	802.11ac VHT40	NA	5710	Chain0	2.26	6.33
NII3	802.11ac VHT40	NA	5710	Chain1	2.31	3.31
NII3	802.11ac VHT40	NA	5710	MIMO	5.30	7.48
NII3	802.11ac VHT80	NA	5690	Chain0	-1.00	3.07
NII3	802.11ac VHT80	NA	5690	Chain1	-1.01	-0.01
NII3	802.11ac VHT80	NA	5690	MIMO	2.01	4.19

Emission Bandwidth

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

NII2C

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	14.78
NII2C	802.11a	Chain1	15.02
NII2C	802.11n HT20	Chain0	14.90
NII2C	802.11n HT20	Chain1	15.08
NII2C	802.11ac VHT20	Chain0	15.20
NII2C	802.11ac VHT20	Chain1	15.08

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	35.04
NII2C	802.11n HT40	Chain1	35.28
NII2C	802.11ac VHT40	Chain0	35.04
NII2C	802.11ac VHT40	Chain1	35.16

26dB Bandwidth (MHz)			
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Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	74.84
NII2C	802.11ac VHT80	Chain1	75.08

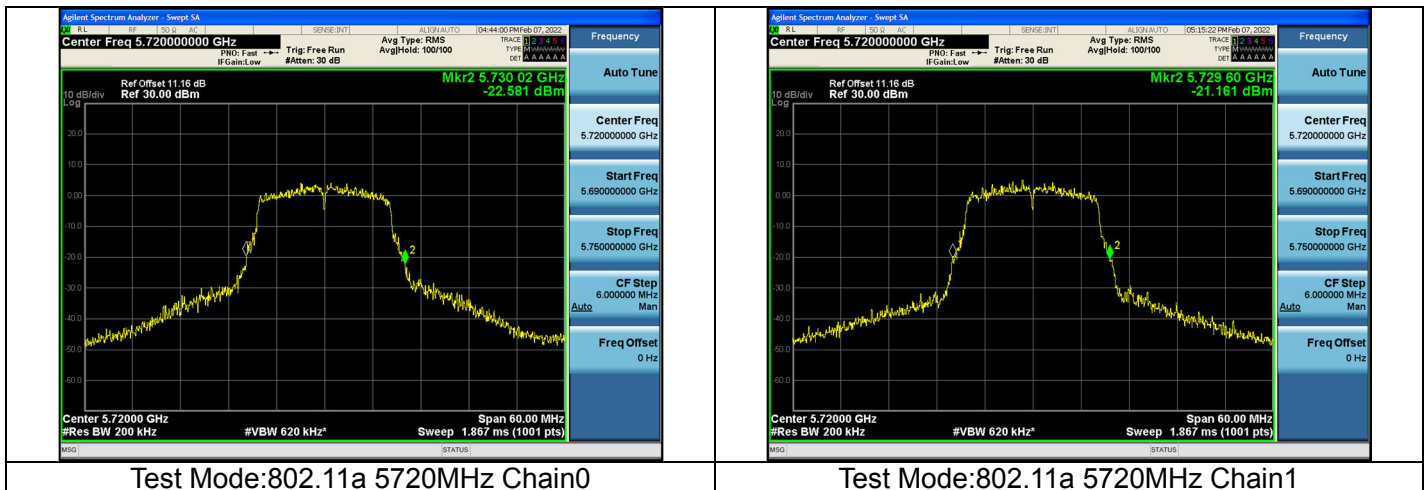
NII3

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	5.02
NII3	802.11a	Chain1	4.60
NII3	802.11n HT20	Chain0	4.84
NII3	802.11n HT20	Chain1	4.90
NII3	802.11ac VHT20	Chain0	5.02
NII3	802.11ac VHT20	Chain1	4.84

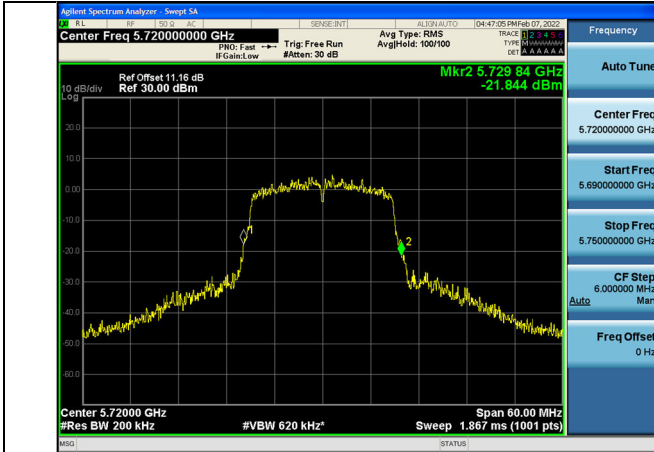
26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	5.04
NII3	802.11n HT40	Chain1	5.04
NII3	802.11ac VHT40	Chain0	5.28
NII3	802.11ac VHT40	Chain1	4.92

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	5.08
NII3	802.11ac VHT80	Chain1	5.56

Test Mode: 802.11a



Test Mode: 802.11n HT20

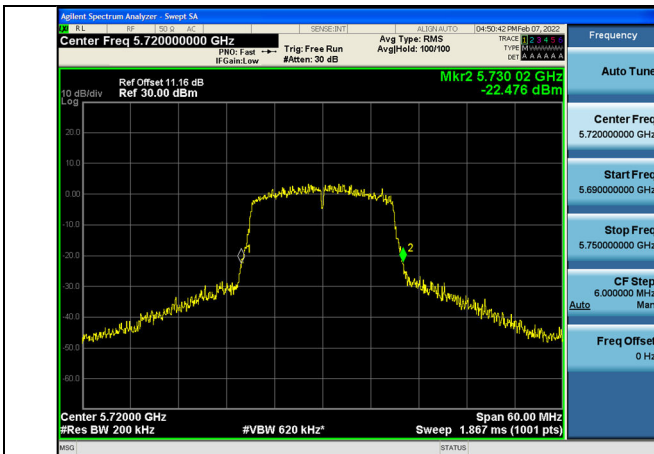


Test Mode:802.11n HT20 5720MHz Chain0

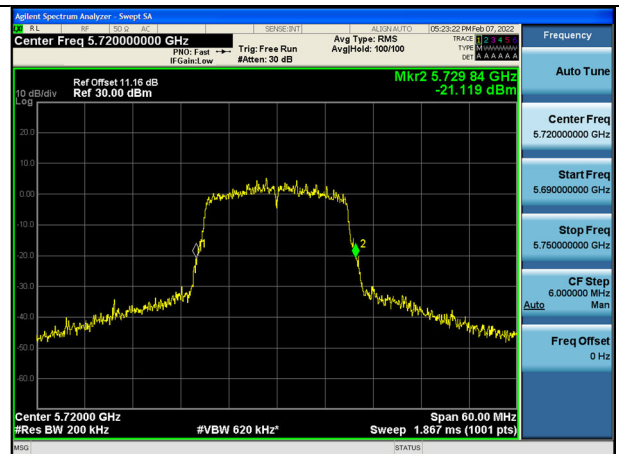


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

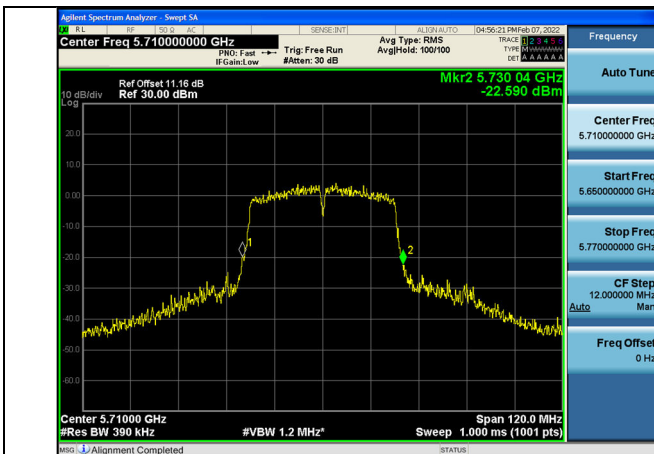


Test Mode:802.11ac VHT20 5720MHz Chain0



Test Mode:802.11ac VHT20 5720MHz Chain1

Test Mode: 802.11n HT40

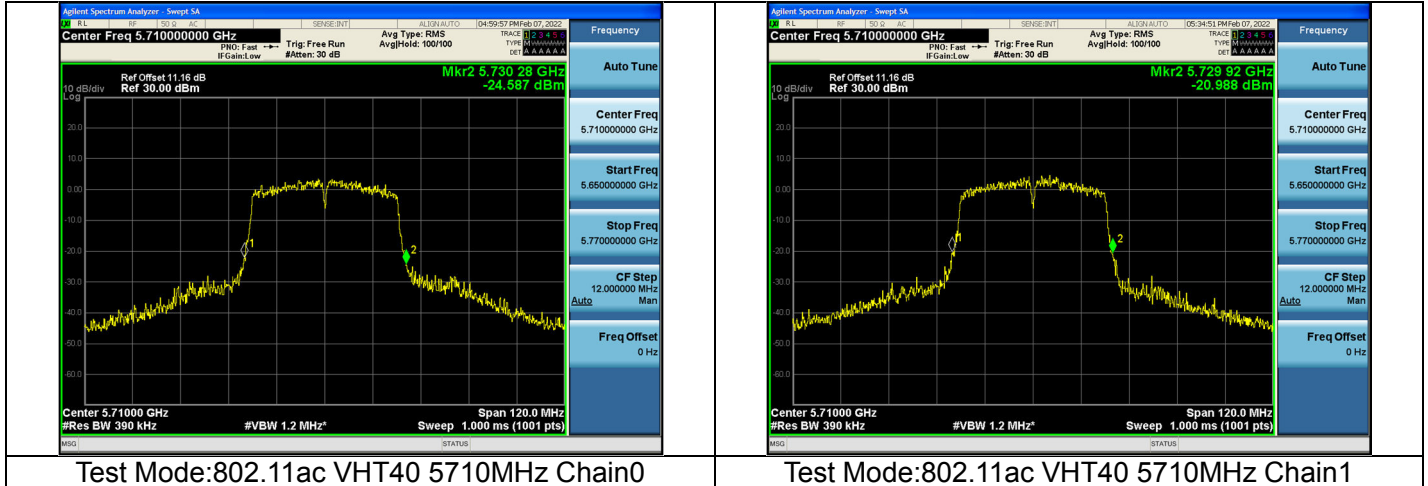


Test Mode:802.11n HT40 5710MHz Chain0

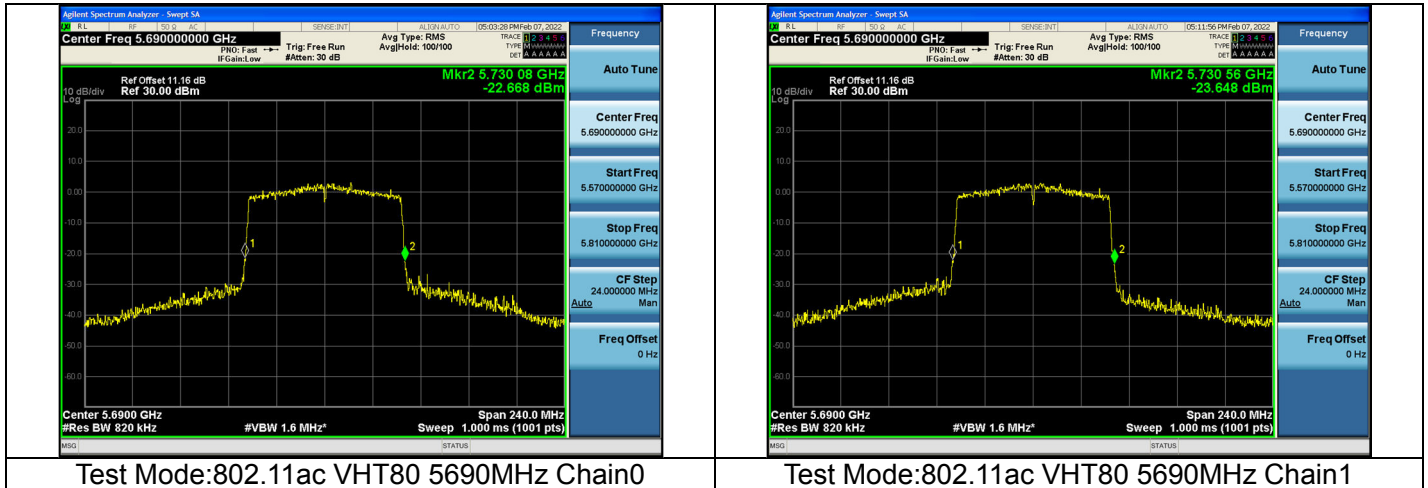


Test Mode:802.11n HT40 5710MHz Chain1

Test Mode: 802.11ac VHT40



Test Mode: 802.11ac VHT80



Occupied Bandwidth

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss
NII2C

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662 5720MHz
NII2C	802.11a	Chain0	13.38
NII2C	802.11a	Chain1	13.29
NII2C	802.11n HT20	Chain0	13.82
NII2C	802.11n HT20	Chain1	13.83
NII2C	802.11ac VHT20	Chain0	13.83
NII2C	802.11ac VHT20	Chain1	13.89

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660 5710MHz
NII2C	802.11n HT40	Chain0	32.99
NII2C	802.11n HT40	Chain1	33.07
NII2C	802.11ac VHT40	Chain0	33.11
NII2C	802.11ac VHT40	Chain1	33.05

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656 5690MHz
NII2C	802.11ac VHT80	Chain0	73.08
NII2C	802.11ac VHT80	Chain1	73.13

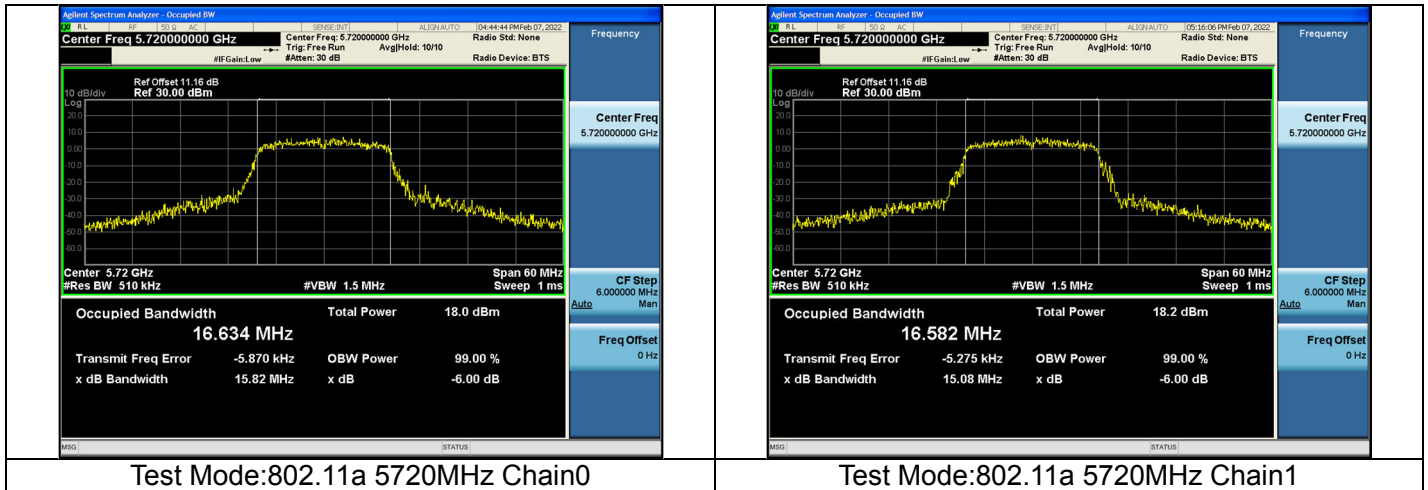
NII3

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662 5720MHz
NII3	802.11a	Chain0	3.37
NII3	802.11a	Chain1	3.28
NII3	802.11n HT20	Chain0	3.86
NII3	802.11n HT20	Chain1	3.82
NII3	802.11ac VHT20	Chain0	3.87
NII3	802.11ac VHT20	Chain1	3.82

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660 5710MHz
NII3	802.11n HT40	Chain0	3.06
NII3	802.11n HT40	Chain1	3.10
NII3	802.11ac VHT40	Chain0	3.13
NII3	802.11ac VHT40	Chain1	3.14

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656 5690MHz
NII3	802.11ac VHT80	Chain0	2.97
NII3	802.11ac VHT80	Chain1	2.91

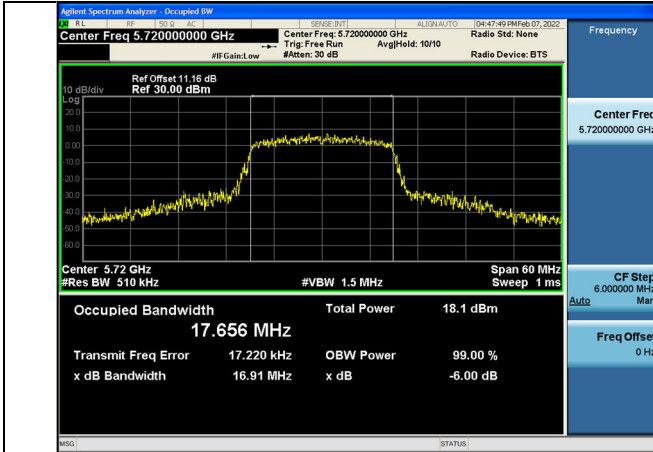
Test Mode: 802.11a



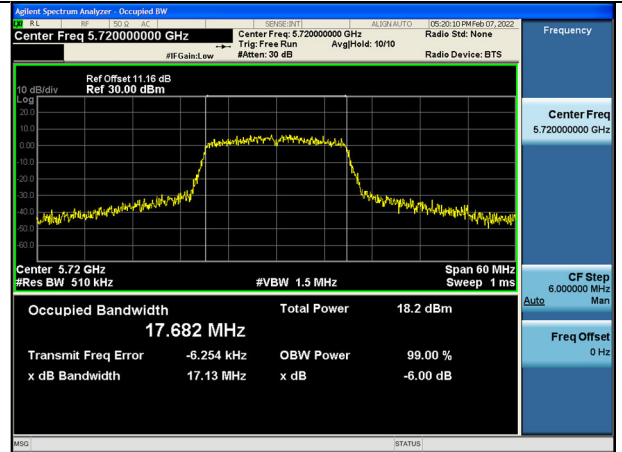
Test Mode:802.11a 5720MHz Chain0

Test Mode:802.11a 5720MHz Chain1

Test Mode: 802.11n HT20

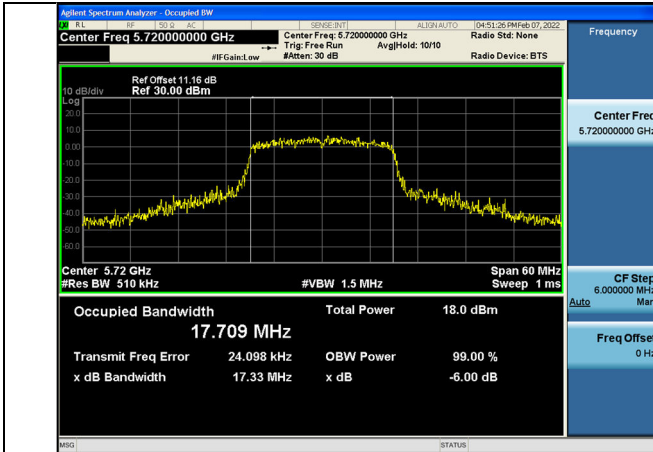


Test Mode:802.11n HT20 5720MHz Chain0

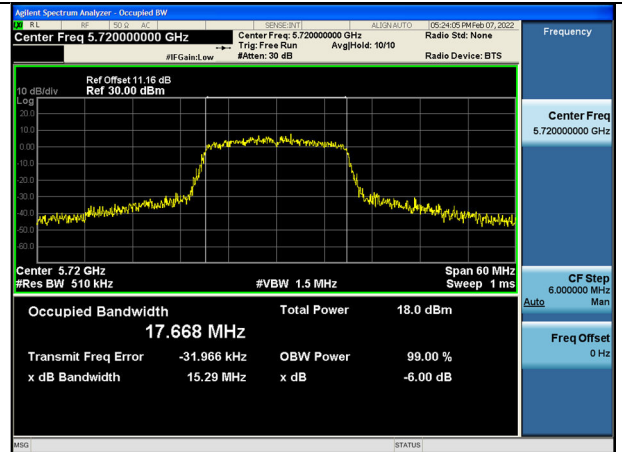


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

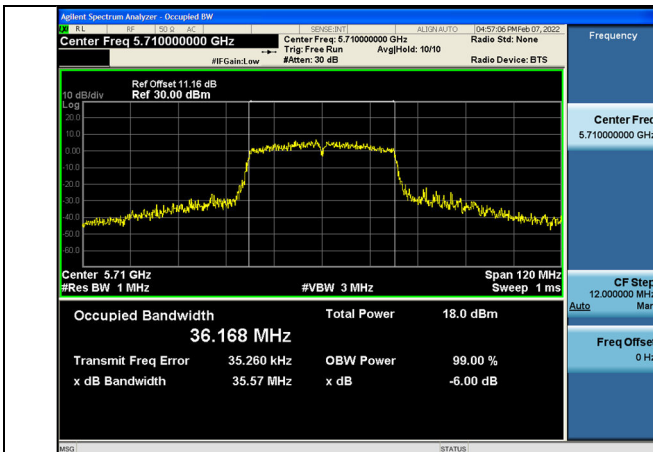


Test Mode:802.11ac VHT20 5720MHz Chain0

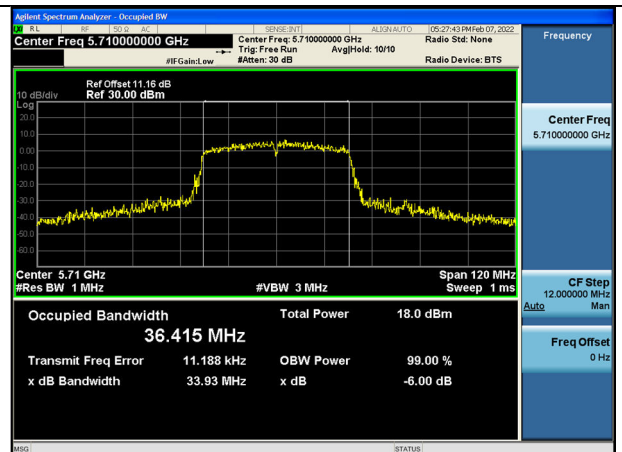


Test Mode:802.11ac VHT20 5720MHz Chain1

Test Mode: 802.11n HT40

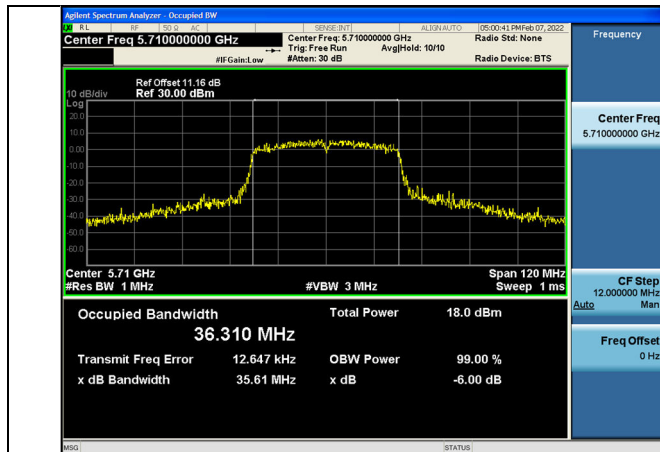


Test Mode:802.11n HT40 5710MHz Chain0

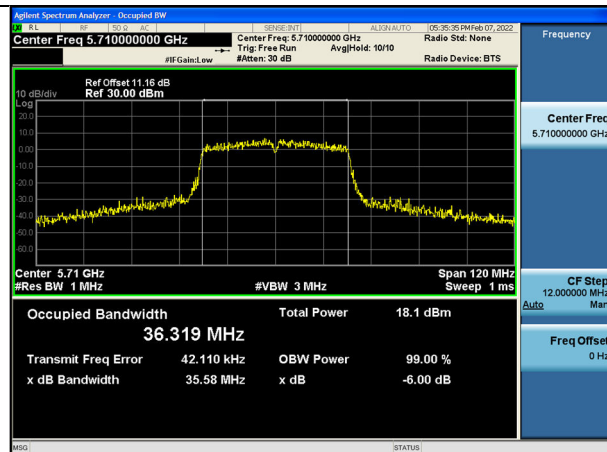


Test Mode:802.11n HT40 5710MHz Chain1

Test Mode: 802.11ac VHT40

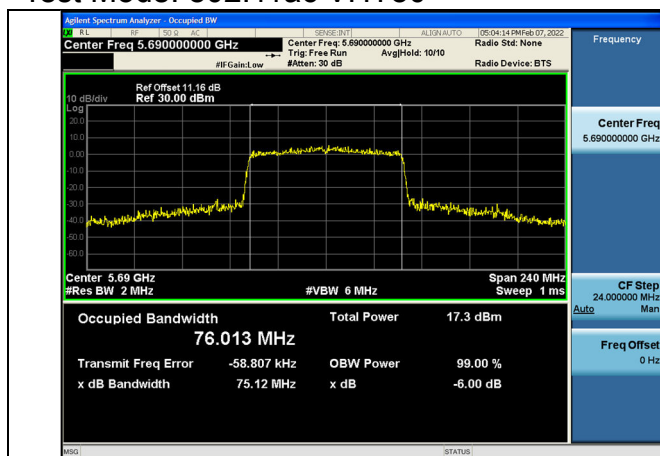


Test Mode:802.11ac VHT40 5710MHz Chain0

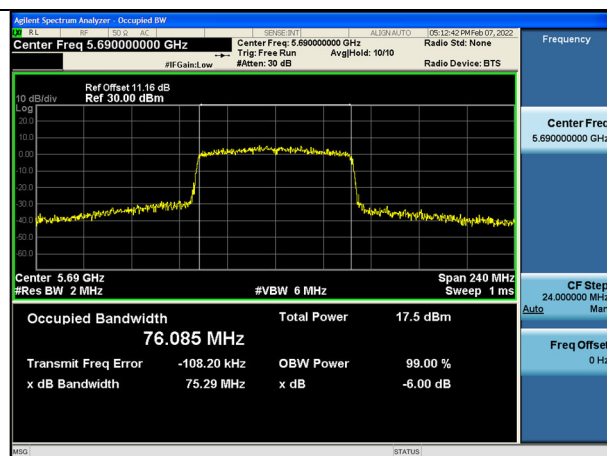


Test Mode:802.11ac VHT40 5710MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5690MHz Chain0



Test Mode:802.11ac VHT80 5690MHz Chain1

6dB Bandwidth

Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss
NII2C

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662 5720MHz
NII2C	802.11a	Chain0	12.83
NII2C	802.11a	Chain1	12.93
NII2C	802.11n HT20	Chain0	12.57
NII2C	802.11n HT20	Chain1	12.63
NII2C	802.11ac VHT20	Chain0	12.97
NII2C	802.11ac VHT20	Chain1	13.83

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660 5710MHz
NII2C	802.11n HT40	Chain0	32.63
NII2C	802.11n HT40	Chain1	32.63
NII2C	802.11ac VHT40	Chain0	32.57
NII2C	802.11ac VHT40	Chain1	32.62

6dB Bandwidth (MHz)

Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	72.54
NII2C	802.11ac VHT80	Chain1	72.61

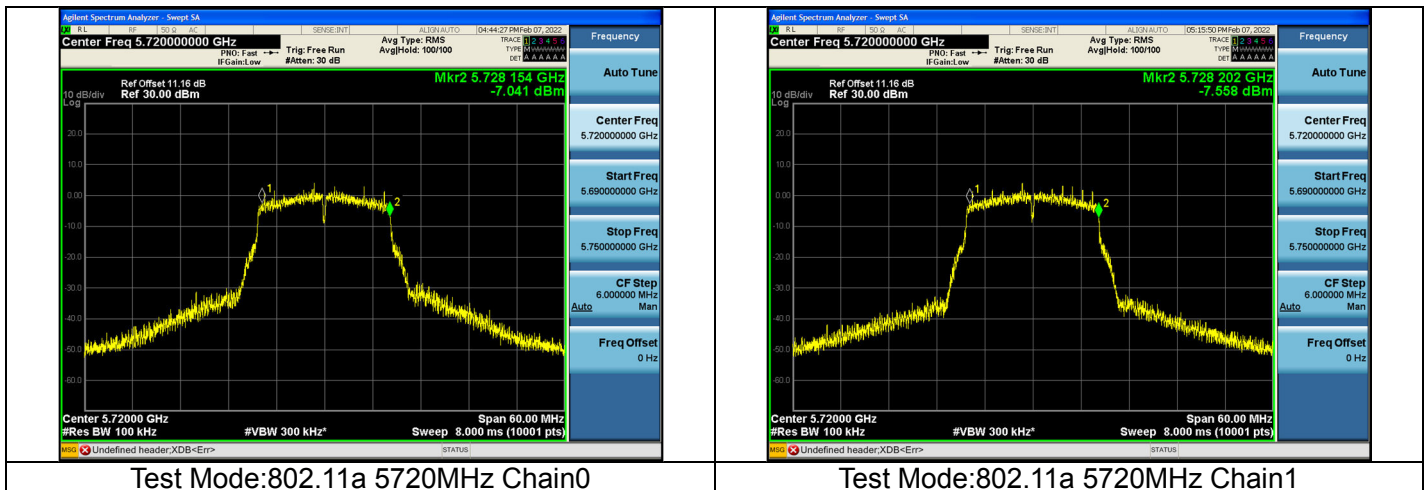
NII3

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	3.15
NII3	802.11a	Chain1	3.20
NII3	802.11n HT20	Chain0	3.51
NII3	802.11n HT20	Chain1	3.77
NII3	802.11ac VHT20	Chain0	3.84
NII3	802.11ac VHT20	Chain1	3.85

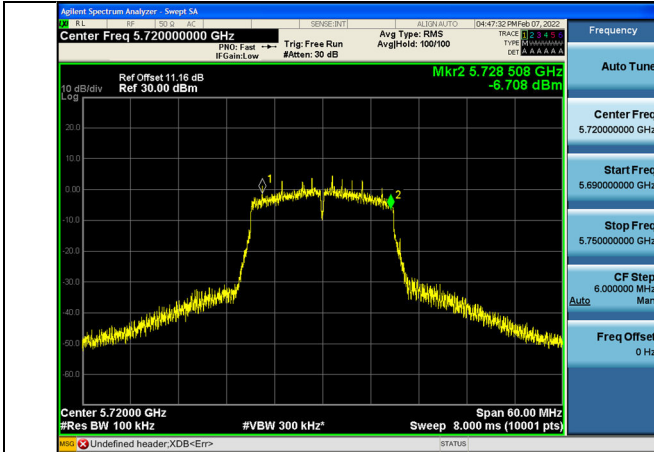
6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	3.13
NII3	802.11n HT40	Chain1	2.87
NII3	802.11ac VHT40	Chain0	3.13
NII3	802.11ac VHT40	Chain1	0.72

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	3.16
NII3	802.11ac VHT80	Chain1	2.97

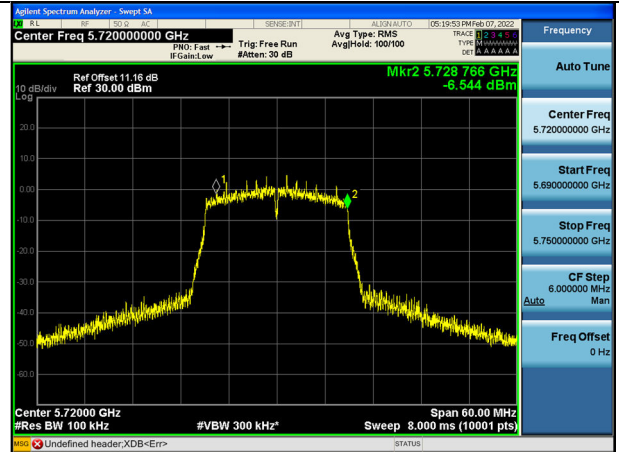
Test Mode: 802.11a



Test Mode: 802.11n HT20

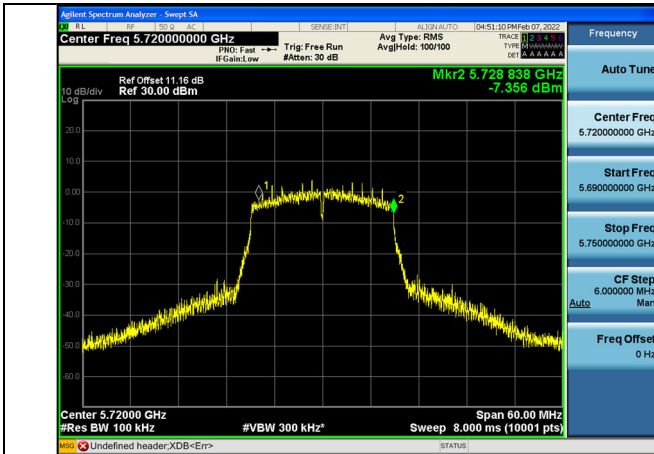


Test Mode:802.11n HT20 5720MHz Chain0

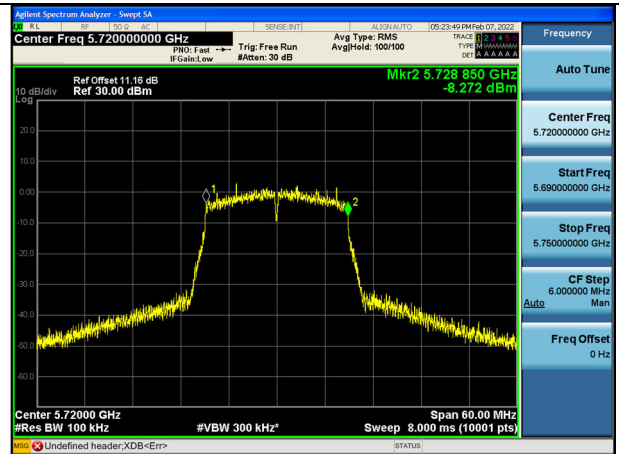


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

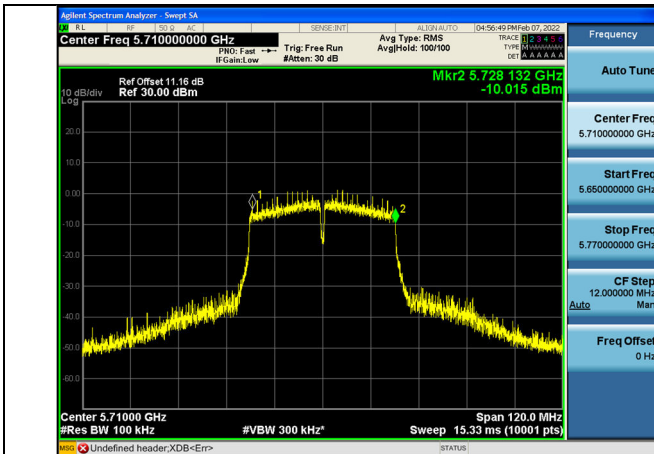


Test Mode:802.11ac VHT20 5720MHz Chain0

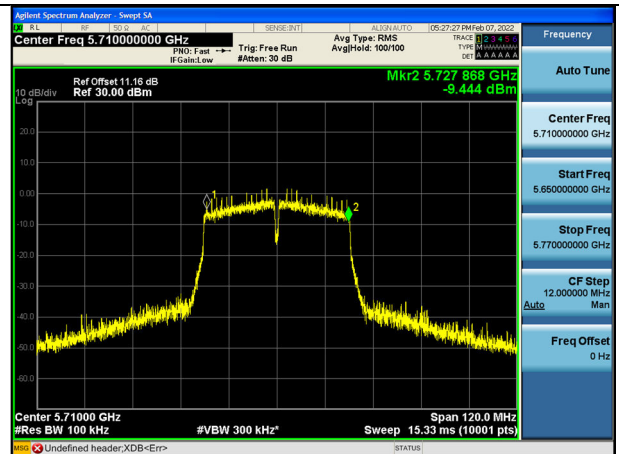


Test Mode:802.11ac VHT20 5720MHz Chain1

Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5710MHz Chain0



Test Mode:802.11n HT40 5710MHz Chain1