

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### CHANNEL AGGREGATION

#### Duty Cycle

Test Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)
802.11a	5720	98.73%	0
802.11a	5720	98.72%	0
802.11n HT20	5720	98.59%	0
802.11n HT20	5720	98.60%	0
802.11ac VHT20	5720	98.62%	0
802.11ac VHT20	5720	98.62%	0
802.11n HT40	5710	97.28%	0.12
802.11n HT40	5710	97.26%	0.12
802.11ac VHT40	5710	97.43%	0.11
802.11ac VHT40	5710	97.23%	0.12
802.11ac VHT80	5690	94.81%	0.23
802.11ac VHT80	5690	94.81%	0.23

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	15.25	19.32
NII2C	802.11a	NA	5720	Chain1	15.49	19.56
NII2C	802.11n HT20	NA	5720	Chain0	15.03	19.10
NII2C	802.11n HT20	NA	5720	Chain1	15.40	19.47
NII2C	802.11n HT20	NA	5720	MIMO	18.23	22.30
NII2C	802.11ac VHT20	NA	5720	Chain0	14.93	19.00
NII2C	802.11ac VHT20	NA	5720	Chain1	15.51	19.58
NII2C	802.11ac VHT20	NA	5720	MIMO	18.24	22.31
NII2C	802.11n HT40	NA	5710	Chain0	15.43	19.50
NII2C	802.11n HT40	NA	5710	Chain1	13.18	17.25
NII2C	802.11n HT40	NA	5710	MIMO	17.46	21.53
NII2C	802.11ac VHT40	NA	5710	Chain0	15.40	19.47
NII2C	802.11ac VHT40	NA	5710	Chain1	13.23	17.30
NII2C	802.11ac VHT40	NA	5710	MIMO	17.46	21.53
NII2C	802.11ac VHT80	NA	5690	Chain0	14.89	18.96
NII2C	802.11ac VHT80	NA	5690	Chain1	15.54	19.61
NII2C	802.11ac VHT80	NA	5690	MIMO	18.24	22.31

NII3

Title	Test Mode	Tones/ RUIndex	Freq (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
NII3	802.11a	NA	5720	Chain0	7.87	11.94
NII3	802.11a	NA	5720	Chain1	8.08	12.15
NII3	802.11n HT20	NA	5720	Chain0	8.18	12.25
NII3	802.11n HT20	NA	5720	Chain1	8.31	12.38
NII3	802.11n HT20	NA	5720	MIMO	11.26	15.33
NII3	802.11ac VHT20	NA	5720	Chain0	7.96	12.03
NII3	802.11ac VHT20	NA	5720	Chain1	8.41	12.48
NII3	802.11ac VHT20	NA	5720	MIMO	11.20	15.27
NII3	802.11n HT40	NA	5710	Chain0	3.79	7.86
NII3	802.11n HT40	NA	5710	Chain1	3.98	8.05
NII3	802.11n HT40	NA	5710	MIMO	6.90	10.97
NII3	802.11ac VHT40	NA	5710	Chain0	3.45	7.52
NII3	802.11ac VHT40	NA	5710	Chain1	3.92	7.99
NII3	802.11ac VHT40	NA	5710	MIMO	6.70	10.77
NII3	802.11ac VHT80	NA	5690	Chain0	0.26	4.33
NII3	802.11ac VHT80	NA	5690	Chain1	0.63	4.70
NII3	802.11ac VHT80	NA	5690	MIMO	3.46	7.53

## Emission Bandwidth

NII2C

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

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	14.90
NII2C	802.11a	Chain1	14.96
NII2C	802.11n HT20	Chain0	15.02
NII2C	802.11n HT20	Chain1	14.96
NII2C	802.11ac VHT20	Chain0	14.90
NII2C	802.11ac VHT20	Chain1	14.96

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	35.16
NII2C	802.11n HT40	Chain1	34.92
NII2C	802.11ac VHT40	Chain0	35.28
NII2C	802.11ac VHT40	Chain1	34.80

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

NII3

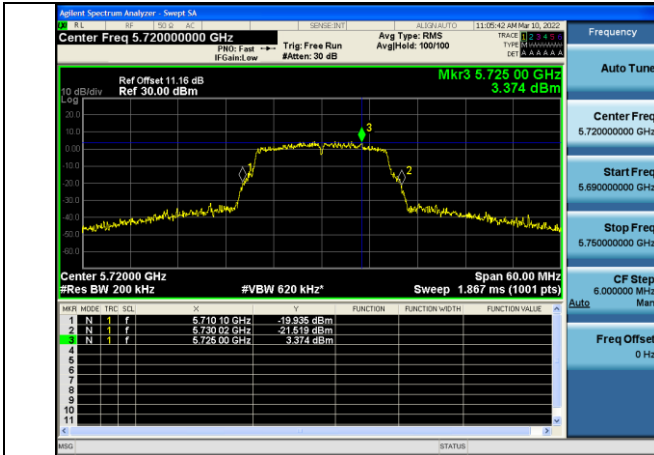
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	5.02
NII3	802.11a	Chain1	4.90
NII3	802.11n HT20	Chain0	5.08
NII3	802.11n HT20	Chain1	4.90
NII3	802.11ac VHT20	Chain0	4.90
NII3	802.11ac VHT20	Chain1	4.90

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	5.52
NII3	802.11n HT40	Chain1	5.28
NII3	802.11ac VHT40	Chain0	5.40
NII3	802.11ac VHT40	Chain1	5.28

26dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	5.32
NII3	802.11ac VHT80	Chain1	5.08

Test Mode: 802.11a

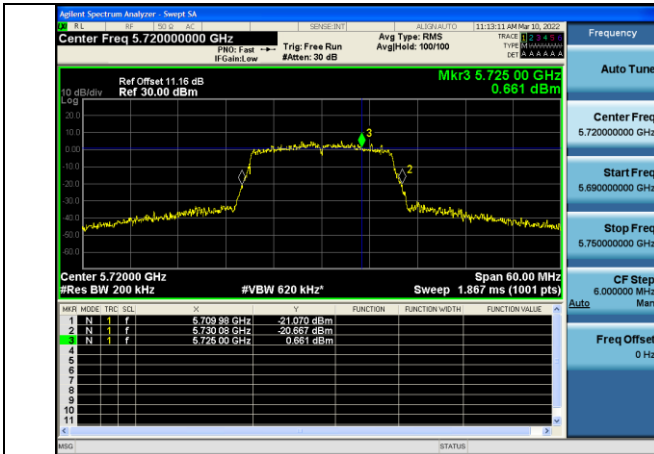


Test Mode:802.11a 5720MHz Chain0

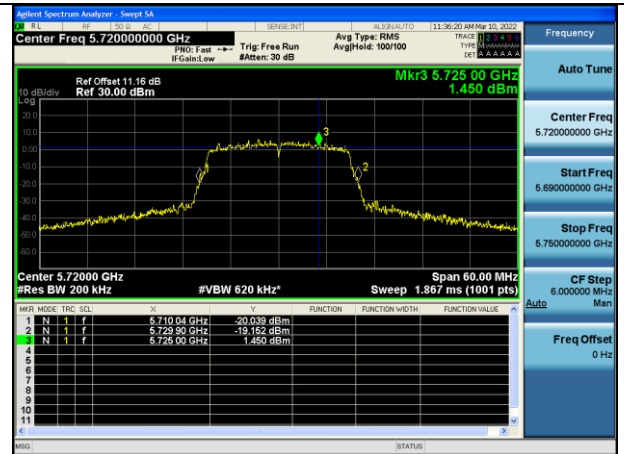


Test Mode:802.11a 5720MHz Chain1

Test Mode: 802.11n HT20

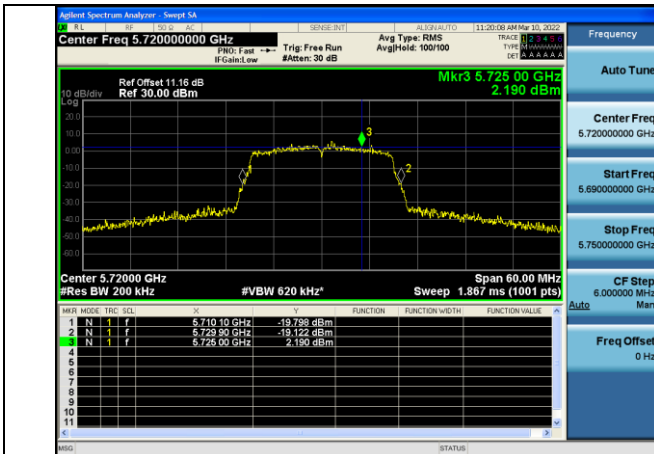


Test Mode:802.11n HT20 5720MHz Chain0

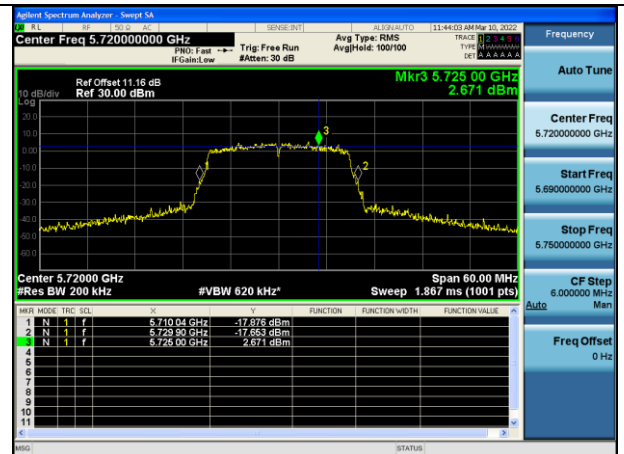


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

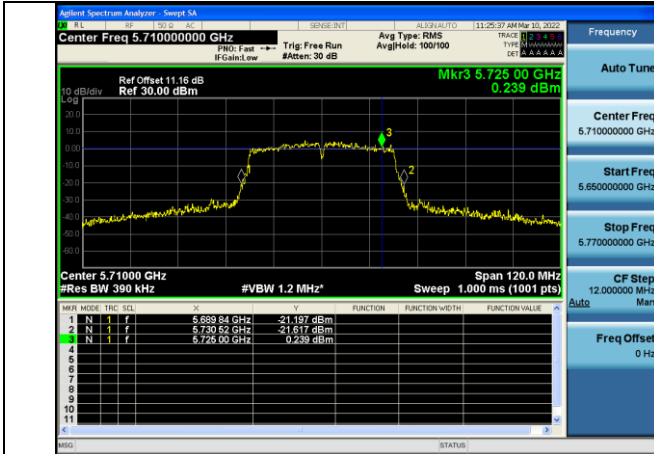


Test Mode:802.11ac VHT20 5720MHz Chain0

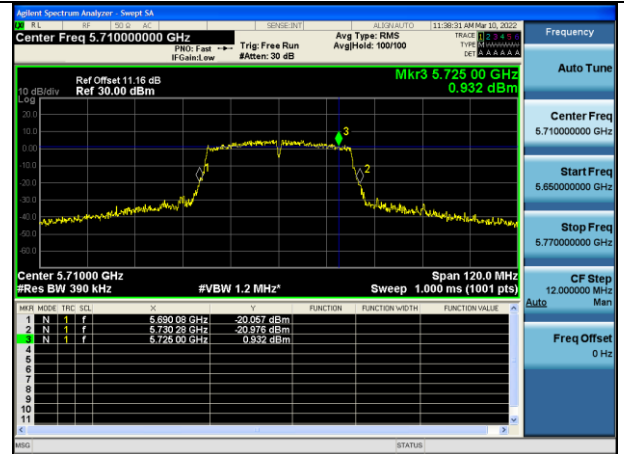


Test Mode:802.11ac VHT20 5720MHz Chain1

Test Mode: 802.11n HT40

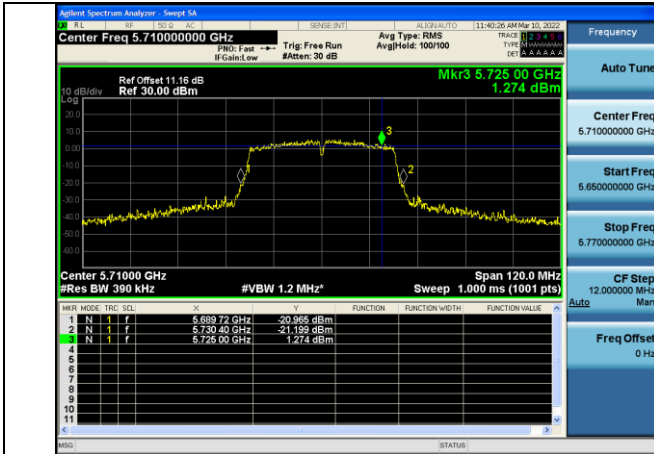


Test Mode:802.11n HT40 5710MHz Chain0

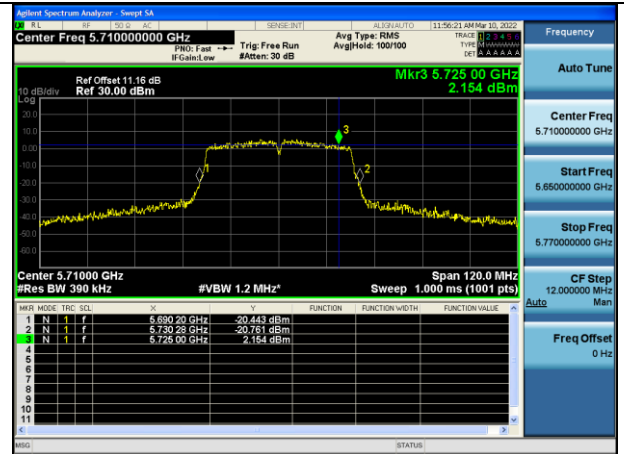


Test Mode:802.11n HT40 5710MHz Chain1

Test Mode: 802.11ac VHT40

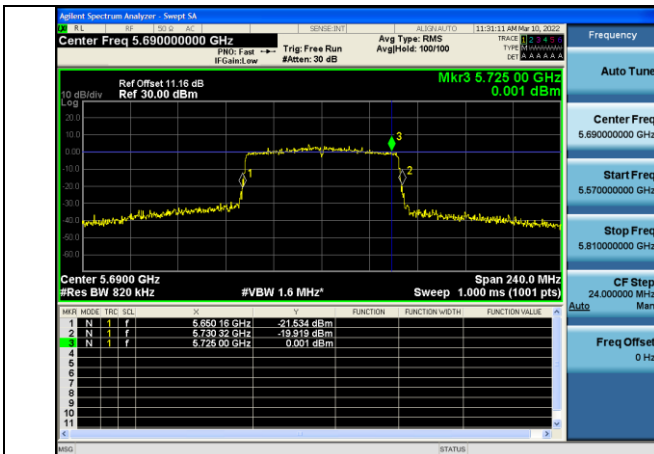


Test Mode:802.11ac VHT40 5710MHz Chain0

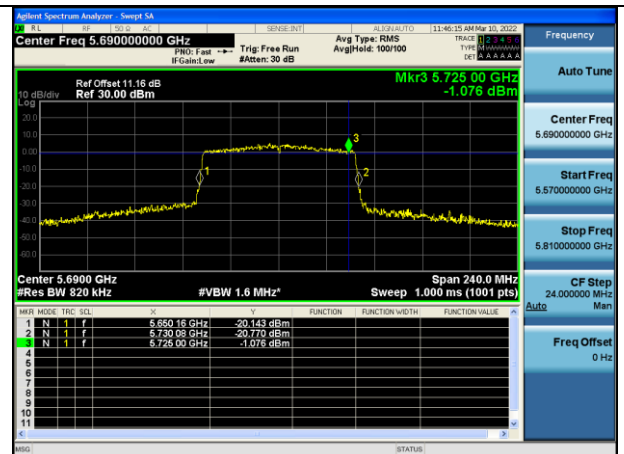


Test Mode:802.11ac VHT40 5710MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5690MHz Chain0



Test Mode:802.11ac VHT80 5690MHz Chain1

## Occupied Bandwidth

NII2C

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

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	13.29
NII2C	802.11a	Chain1	13.20
NII2C	802.11n HT20	Chain0	13.78
NII2C	802.11n HT20	Chain1	13.84
NII2C	802.11ac VHT20	Chain0	13.89
NII2C	802.11ac VHT20	Chain1	13.82

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	33.00
NII2C	802.11n HT40	Chain1	32.99
NII2C	802.11ac VHT40	Chain0	33.04
NII2C	802.11ac VHT40	Chain1	33.01

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	72.97
NII2C	802.11ac VHT80	Chain1	72.92

NII3

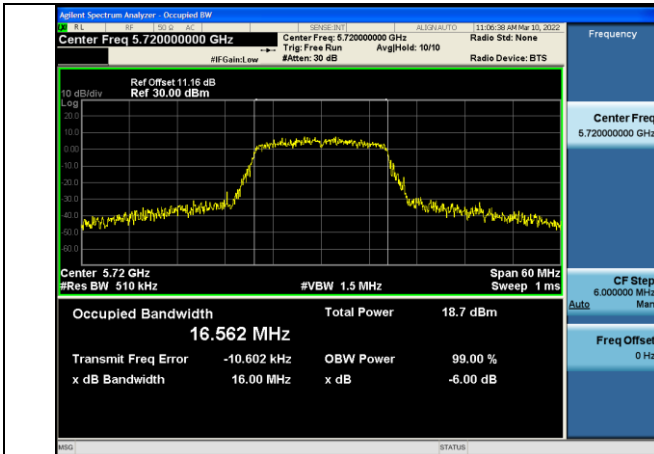
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	3.27
NII3	802.11a	Chain1	3.32
NII3	802.11n HT20	Chain0	3.89
NII3	802.11n HT20	Chain1	3.81
NII3	802.11ac VHT20	Chain0	3.90
NII3	802.11ac VHT20	Chain1	3.83

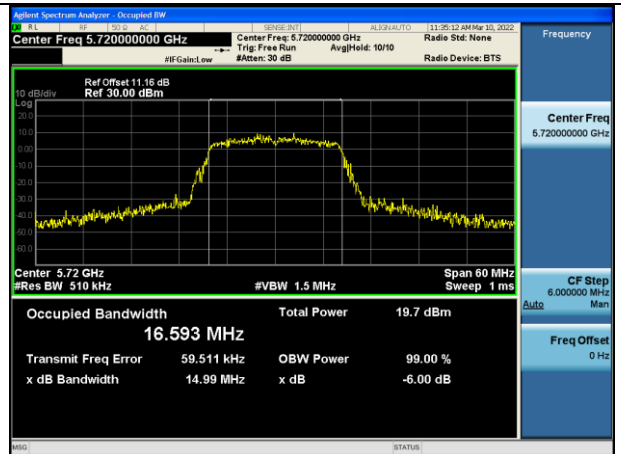
Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	3.18
NII3	802.11n HT40	Chain1	3.24
NII3	802.11ac VHT40	Chain0	3.17
NII3	802.11ac VHT40	Chain1	3.16

Occupied Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	3.02
NII3	802.11ac VHT80	Chain1	3.16

Test Mode: 802.11a

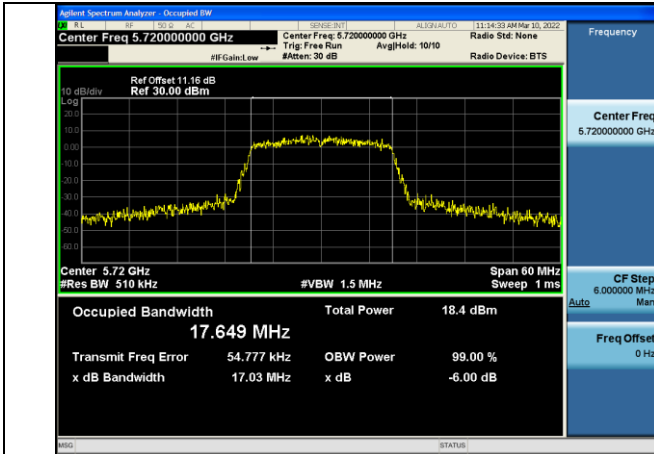


Test Mode:802.11a 5720MHz Chain0

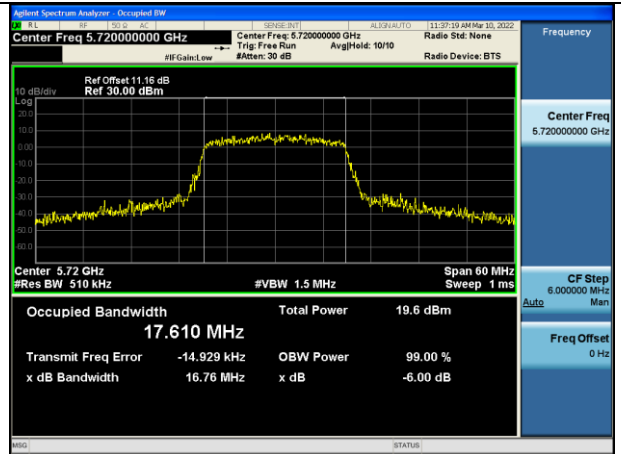


Test Mode:802.11a 5720MHz Chain1

Test Mode: 802.11n HT20

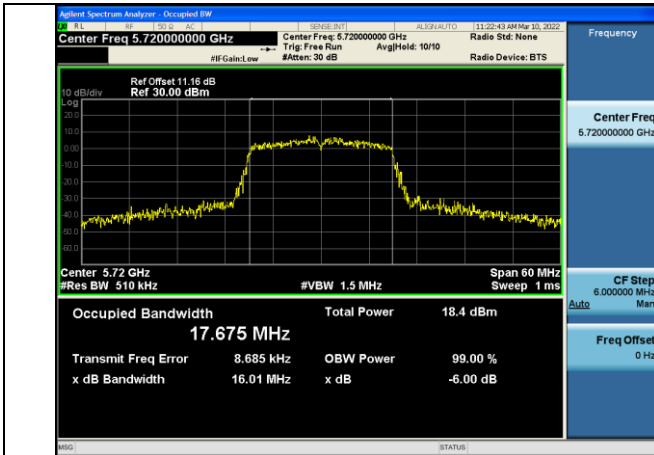


Test Mode:802.11n HT20 5720MHz Chain0

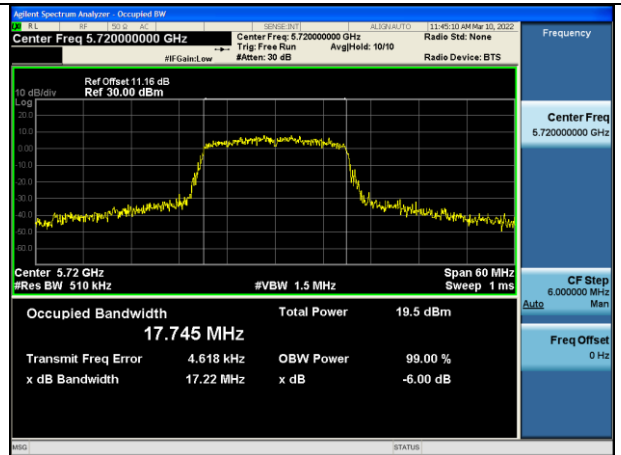


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

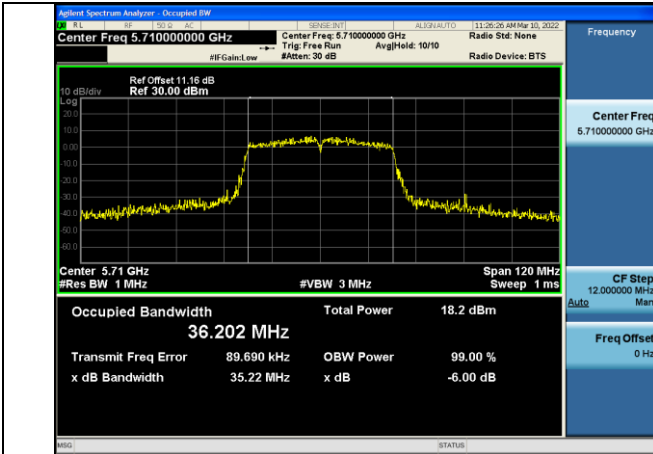


Test Mode:802.11ac VHT20 5720MHz Chain0

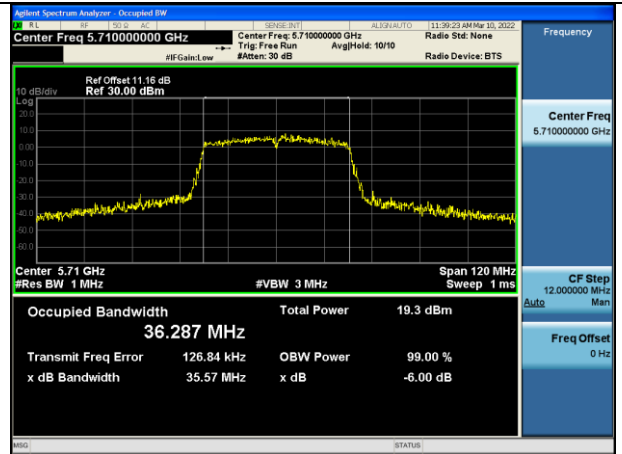


Test Mode:802.11ac VHT20 5720MHz Chain1

Test Mode: 802.11n HT40

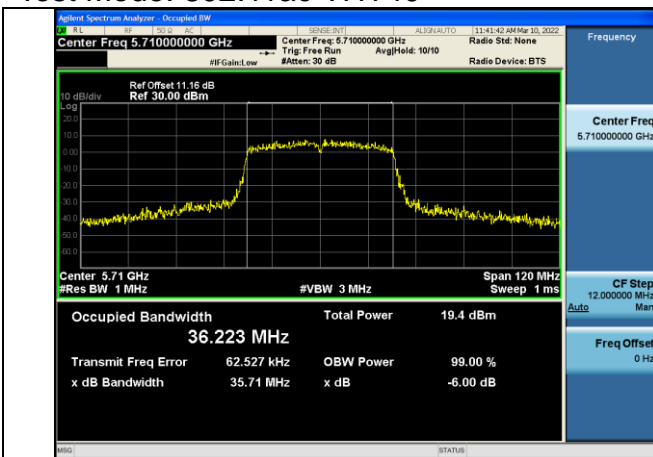


Test Mode:802.11n HT40 5710MHz Chain0

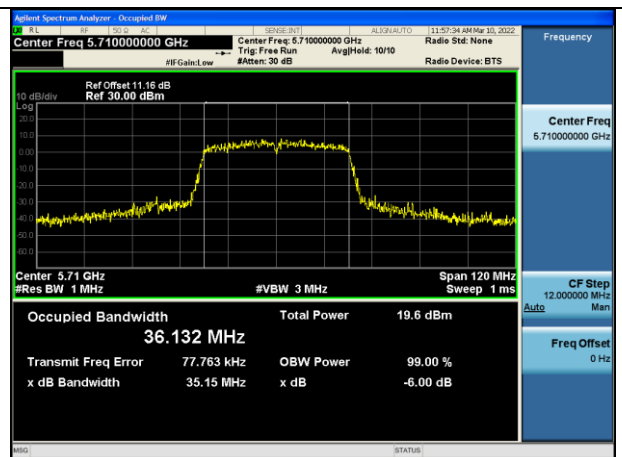


Test Mode:802.11n HT40 5710MHz Chain1

Test Mode: 802.11ac VHT40

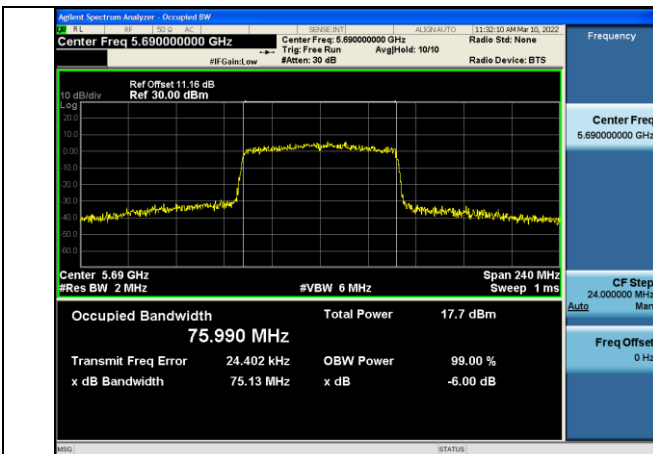


Test Mode:802.11ac VHT40 5710MHz Chain0

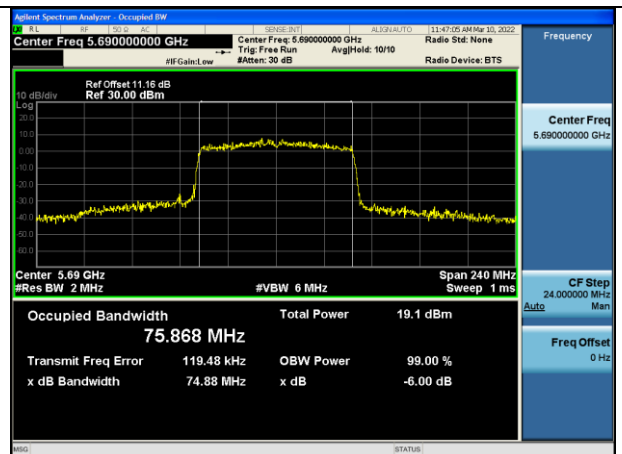


Test Mode:802.11ac VHT40 5710MHz Chain1

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5690MHz Chain0



Test Mode:802.11ac VHT80 5690MHz Chain1



## 6dB Bandwidth

NII2C

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

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII2C	802.11a	Chain0	12.55
NII2C	802.11a	Chain1	12.57
NII2C	802.11n HT20	Chain0	12.80
NII2C	802.11n HT20	Chain1	13.15
NII2C	802.11ac VHT20	Chain0	13.15
NII2C	802.11ac VHT20	Chain1	12.55

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII2C	802.11n HT40	Chain0	31.67
NII2C	802.11n HT40	Chain1	32.57
NII2C	802.11ac VHT40	Chain0	32.54
NII2C	802.11ac VHT40	Chain1	32.50

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII2C	802.11ac VHT80	Chain0	72.58
NII2C	802.11ac VHT80	Chain1	71.34

NII3

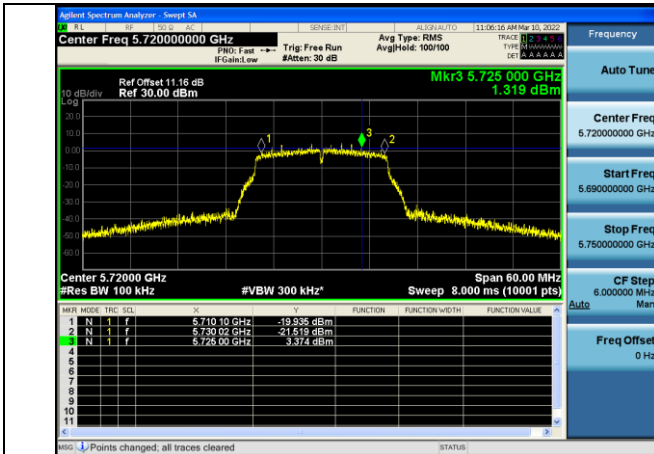
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.662
			5720MHz
NII3	802.11a	Chain0	2.89
NII3	802.11a	Chain1	2.46
NII3	802.11n HT20	Chain0	2.69
NII3	802.11n HT20	Chain1	3.35
NII3	802.11ac VHT20	Chain0	2.72
NII3	802.11ac VHT20	Chain1	1.28

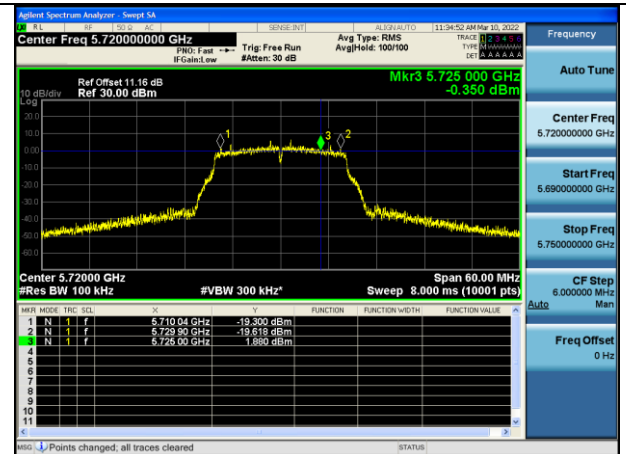
6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.660
			5710MHz
NII3	802.11n HT40	Chain0	2.72
NII3	802.11n HT40	Chain1	2.41
NII3	802.11ac VHT40	Chain0	2.47
NII3	802.11ac VHT40	Chain1	2.52

6dB Bandwidth (MHz)			
Title	Test Mode	Antenna	Channel No.656
			5690MHz
NII3	802.11ac VHT80	Chain0	1.29
NII3	802.11ac VHT80	Chain1	2.49

Test Mode: 802.11a

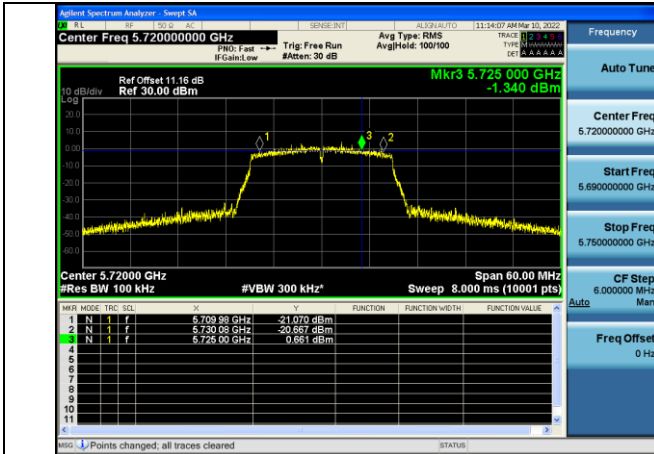


Test Mode:802.11a 5720MHz Chain0

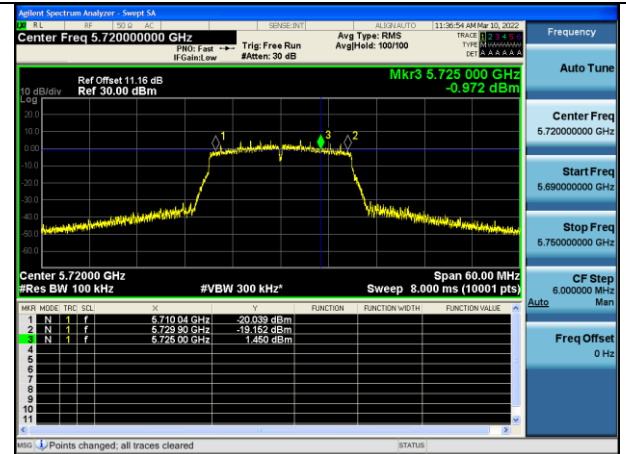


Test Mode:802.11a 5720MHz Chain1

Test Mode: 802.11n HT20

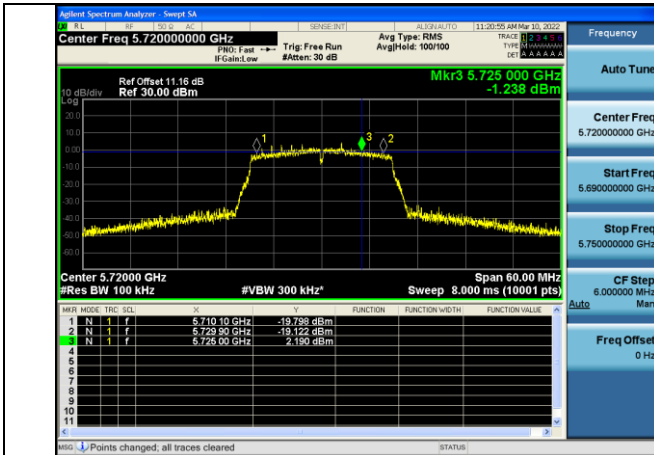


Test Mode:802.11n HT20 5720MHz Chain0

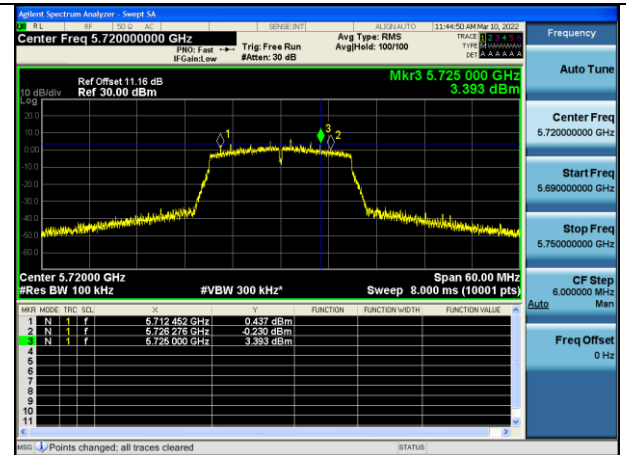


Test Mode:802.11n HT20 5720MHz Chain1

Test Mode: 802.11ac VHT20

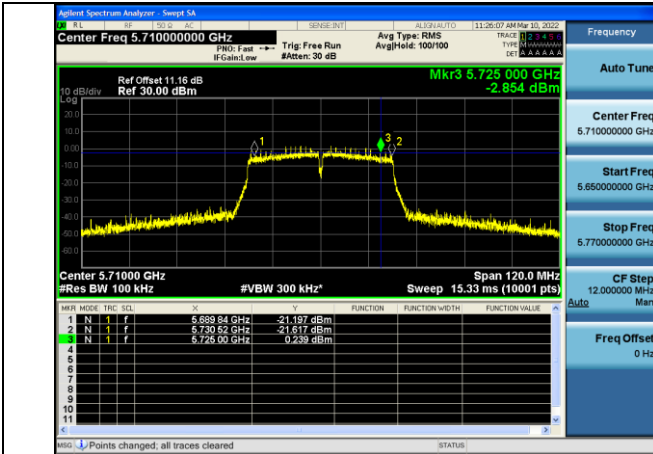


Test Mode:802.11ac VHT20 5720MHz Chain0

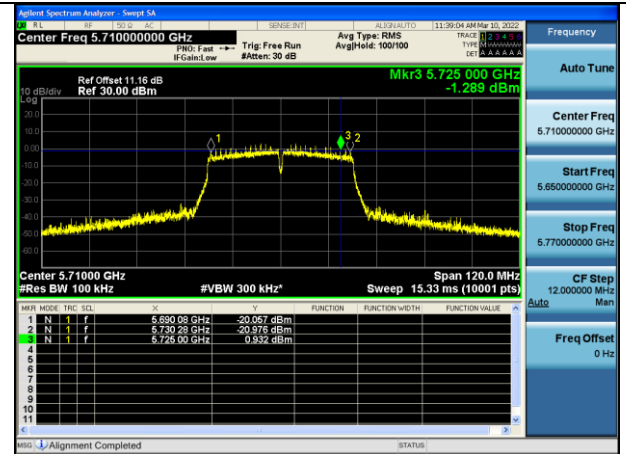


Test Mode:802.11ac VHT20 5720MHz Chain1

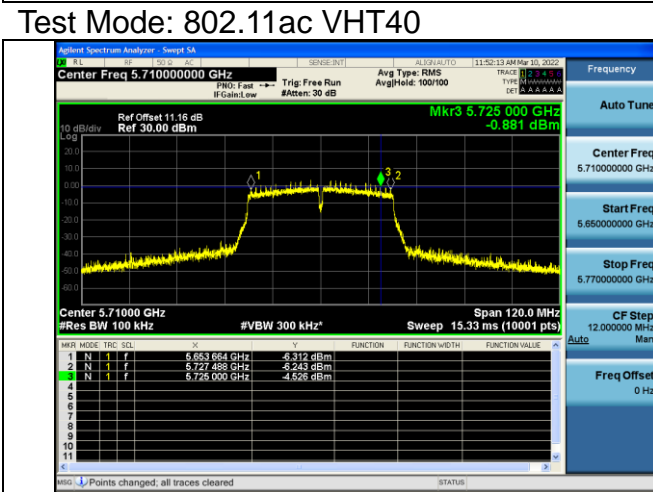
Test Mode: 802.11n HT40



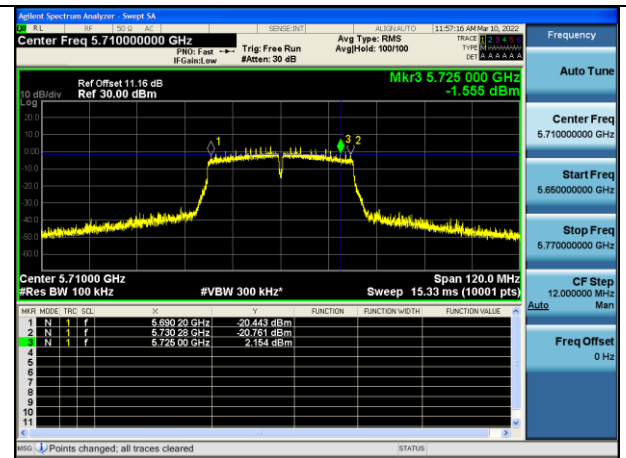
Test Mode:802.11n HT40 5710MHz Chain0



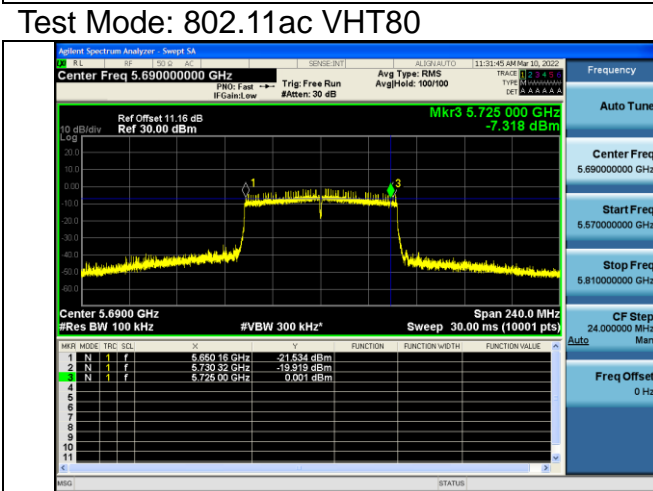
Test Mode:802.11n HT40 5710MHz Chain1



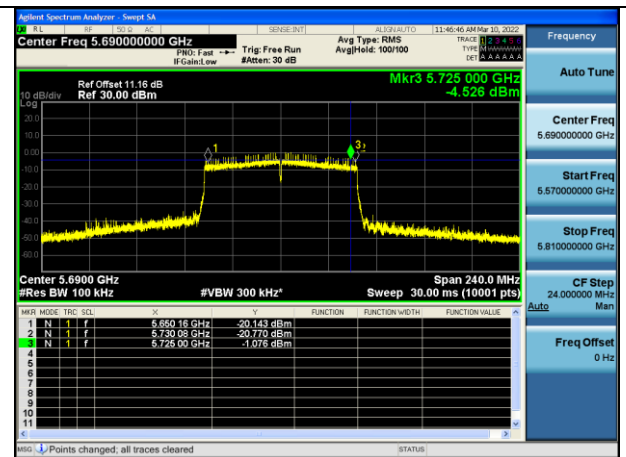
Test Mode:802.11ac VHT40 5710MHz Chain0



Test Mode:802.11ac VHT40 5710MHz Chain1



Test Mode:802.11ac VHT80 5690MHz Chain0



Test Mode:802.11ac VHT80 5690MHz Chain1

## Transmitter Power Spectral Density

NII2C

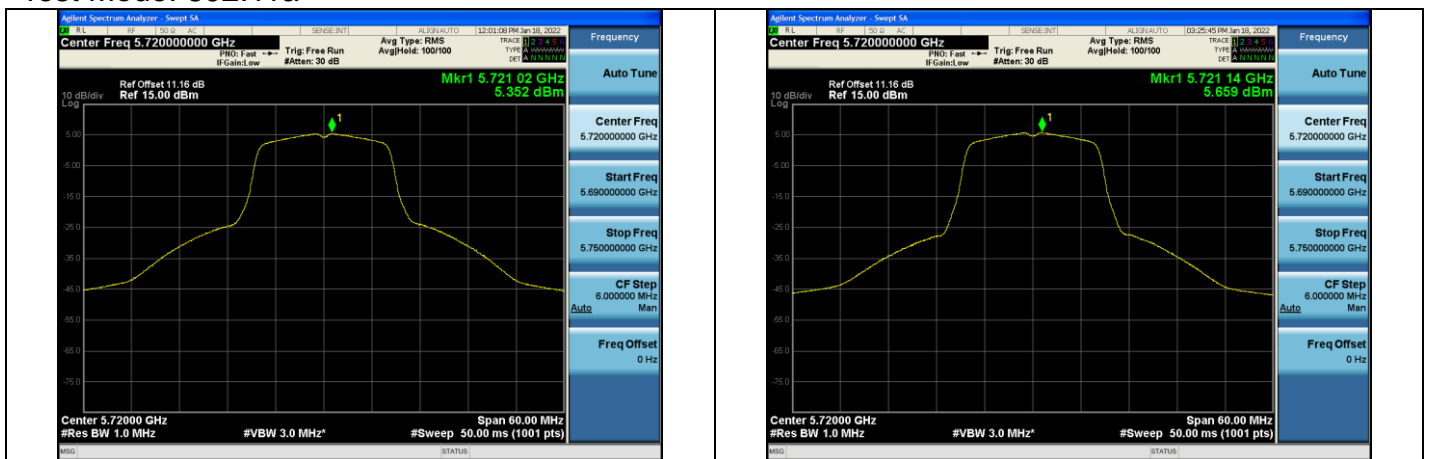
Offset 11.16dB = Attenuator + Temporary antenna connector loss + Cable loss

Title	Test Mode	Antenna	5720MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11a	Chain0	0	5.3523
NII2C	802.11a	Chain1	0	5.6593
NII2C	802.11n HT20	Chain0	0	5.1743
NII2C	802.11n HT20	Chain1	0	5.4253
NII2C	802.11n HT20	MIMO	3.010	8.3119
NII2C	802.11ac VHT20	Chain0	0	5.0003
NII2C	802.11ac VHT20	Chain1	0	5.4223
NII2C	802.11ac VHT20	MIMO	3.010	8.2267

Title	Test Mode	Antenna	5710MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11n HT40	Chain0	0.12	2.0413
NII2C	802.11n HT40	Chain1	0.12	2.5993
NII2C	802.11n HT40	MIMO	3.130	5.3396
NII2C	802.11ac VHT40	Chain0	0.11	1.9913
NII2C	802.11ac VHT40	Chain1	0.11	2.6703
NII2C	802.11ac VHT40	MIMO	3.120	5.3544

Title	Test Mode	Antenna	5690MHz	
			Correction Factor(dB)	Power Density (dBm/MHz)
NII2C	802.11ac VHT80	Chain0	0.23	-4.0277
NII2C	802.11ac VHT80	Chain1	0.23	-1.0497
NII2C	802.11ac VHT80	MIMO	3.240	0.7220

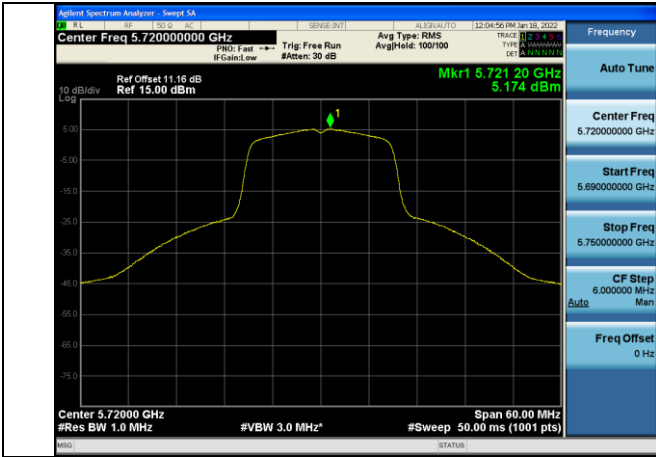
Test Mode: 802.11a



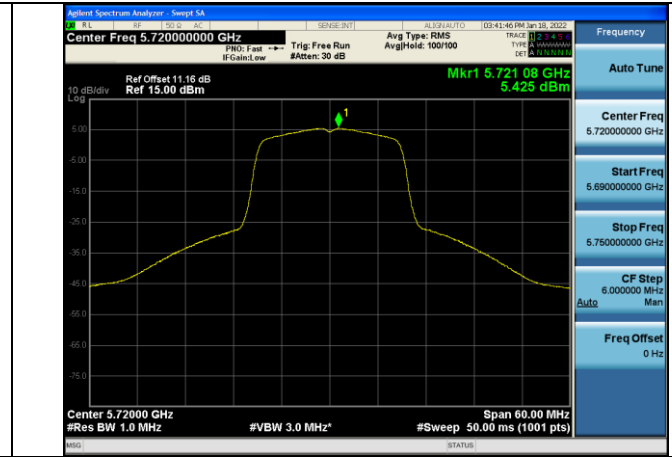
Test Mode:802.11a 5720MHz Chain0 NII2C

Test Mode:802.11a 5720MHz Chain1 NII2C

Test Mode: 802.11n HT20

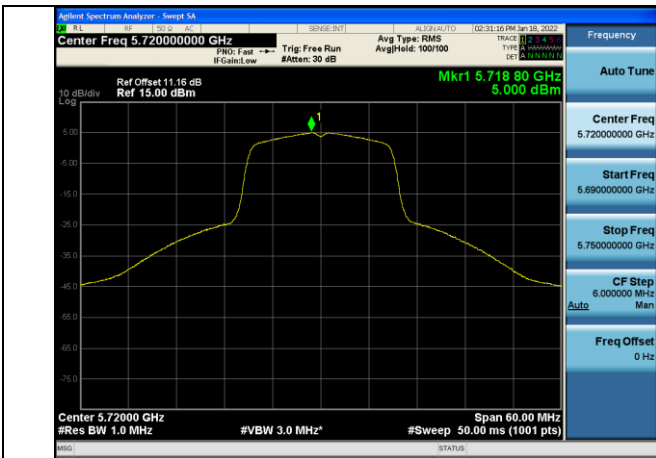


Test Mode:802.11n HT20 5720MHz Chain0 NII2C

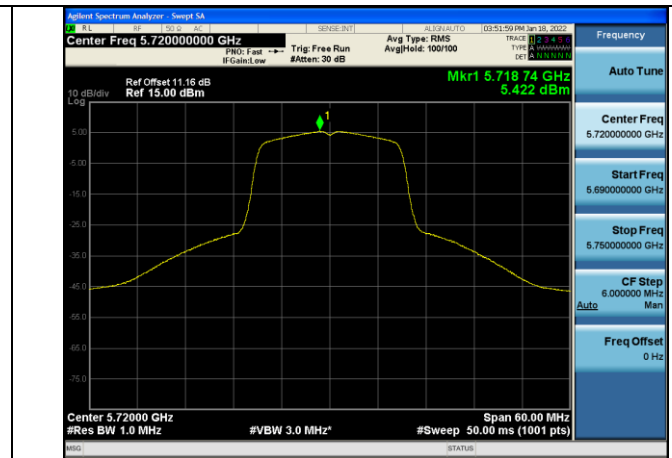


Test Mode:802.11n HT20 5720MHz Chain1 NII2C

Test Mode: 802.11ac VHT20

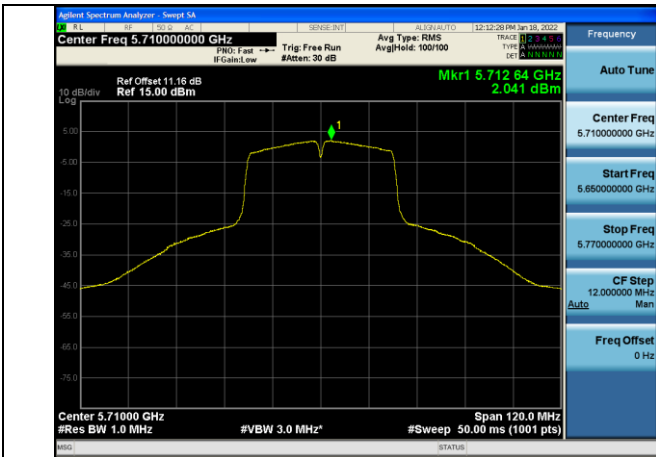


Test Mode:802.11ac VHT20 5720MHz Chain0 NII2C

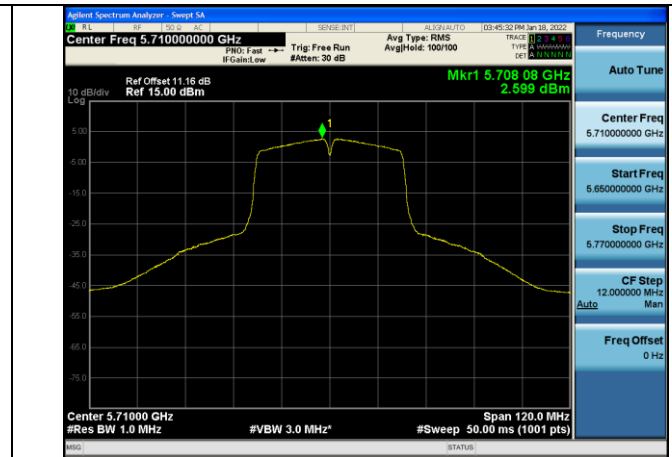


Test Mode:802.11ac VHT20 5720MHz Chain1 NII2C

Test Mode: 802.11n HT40

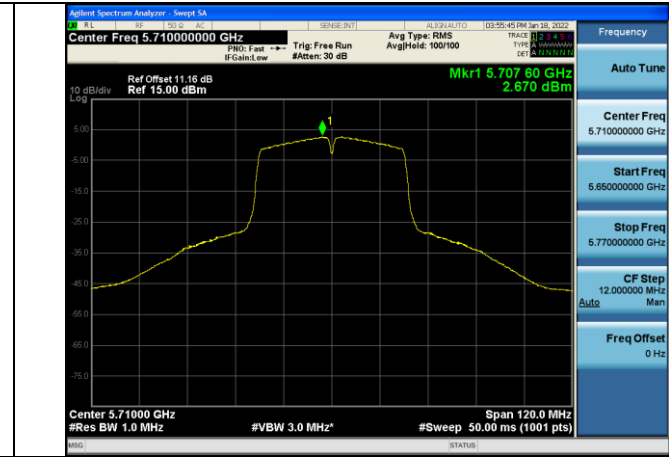
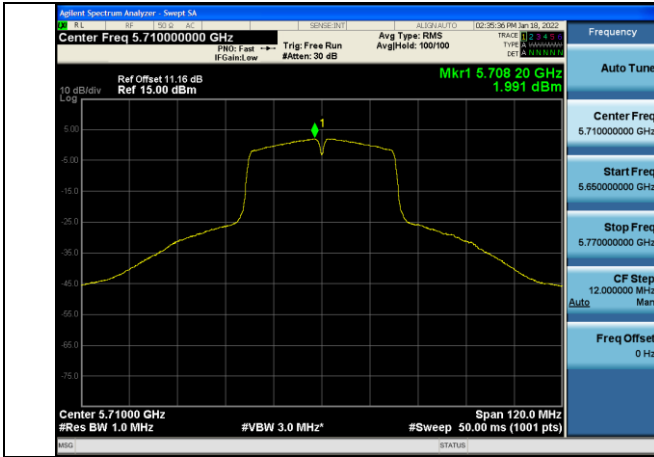


Test Mode:802.11n HT40 5710MHz Chain0 NII2C



Test Mode:802.11n HT40 5710MHz Chain1 NII2C

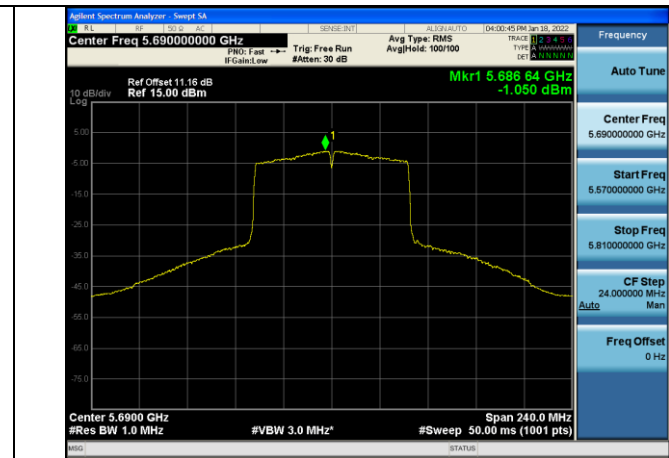
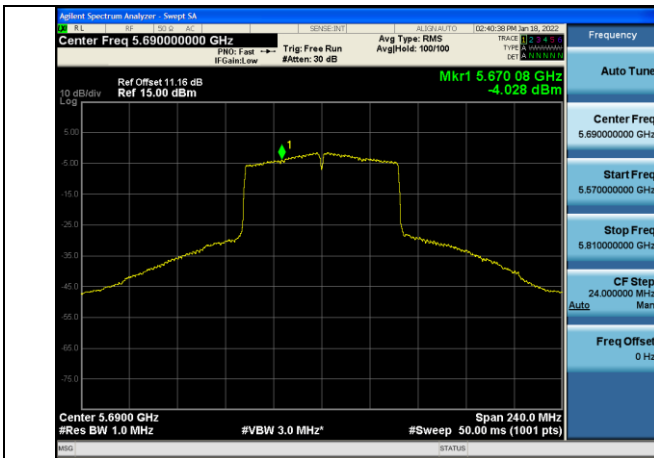
Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5710MHz Chain0 NII2C

Test Mode:802.11ac VHT40 5710MHz Chain1 NII2C

Test Mode: 802.11ac VHT80



Test Mode:802.11ac VHT80 5690MHz Chain0 NII2C

Test Mode:802.11ac VHT80 5690MHz Chain1 NII2C

NII3

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

Title	Test Mode	Antenna	5720MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11a	Chain0	0	2.1357
NII3	802.11a	Chain1	0	2.3977
NII3	802.11n HT20	Chain0	0	1.9617
NII3	802.11n HT20	Chain1	0	2.1897
NII3	802.11n HT20	MIMO	3.010	5.0875
NII3	802.11ac VHT20	Chain0	0	1.4567
NII3	802.11ac VHT20	Chain1	0	1.9137
NII3	802.11ac VHT20	MIMO	3.010	4.7015

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

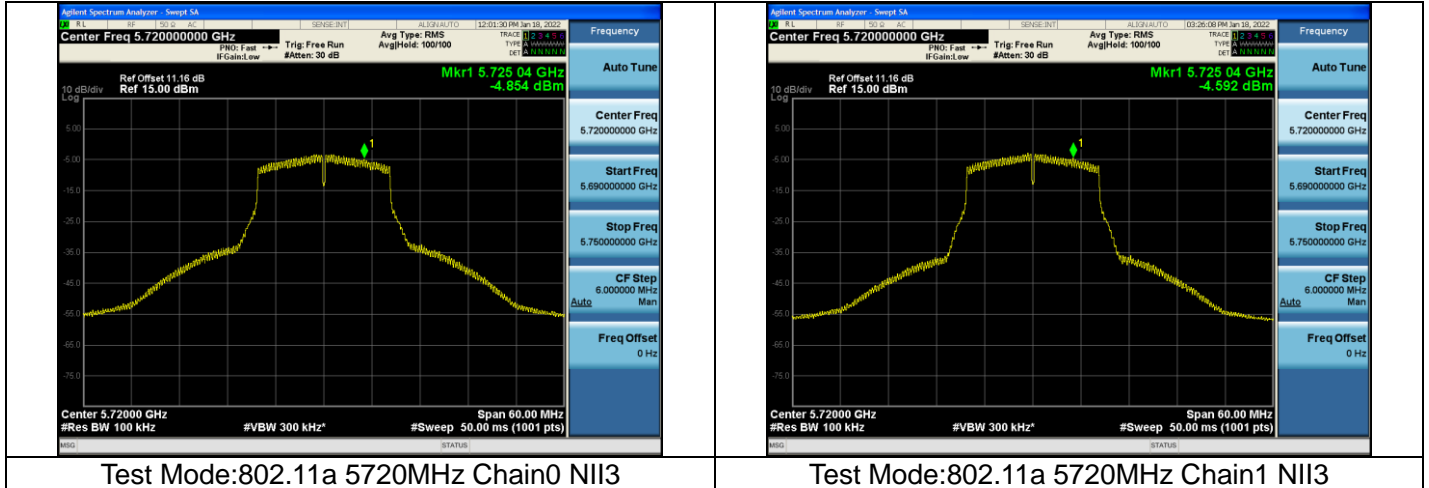
Title	Test Mode	Antenna	5710MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11n HT40	Chain0	0.12	-2.3473
NII3	802.11n HT40	Chain1	0.12	-2.5093
NII3	802.11n HT40	MIMO	3.130	0.5828
NII3	802.11ac VHT40	Chain0	0.11	-3.0283
NII3	802.11ac VHT40	Chain1	0.11	-2.1283
NII3	802.11ac VHT40	MIMO	3.120	0.4553

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

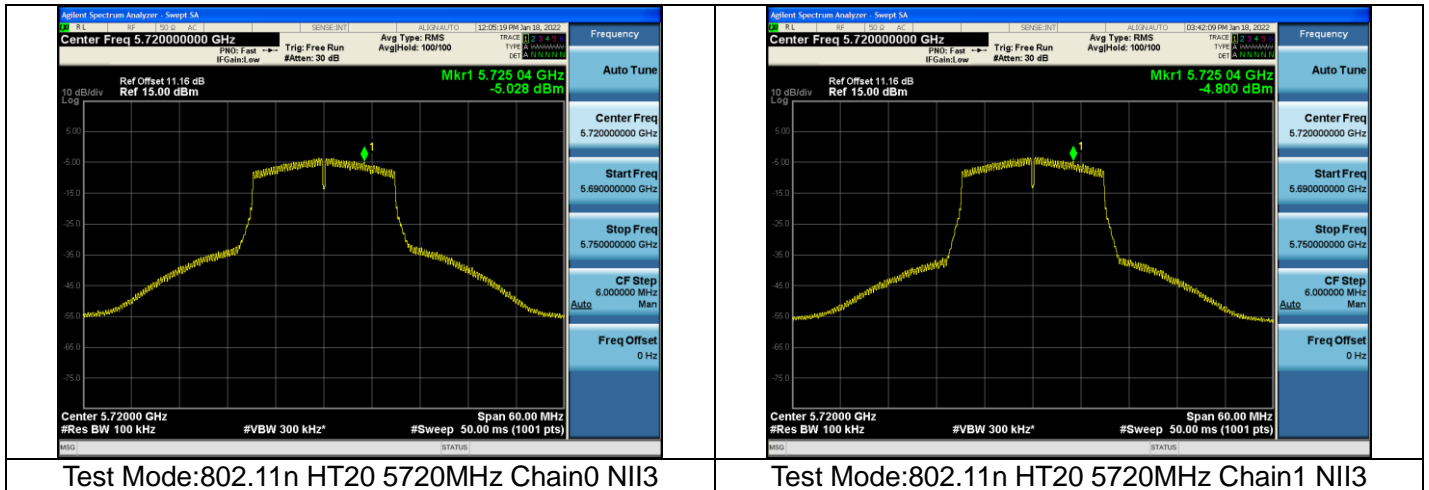
Title	Test Mode	Antenna	5690MHz	
			Correction Factor(dB)	Power Density (dBm/500KHz)
NII3	802.11ac VHT80	Chain0	0.23	-6.8423
NII3	802.11ac VHT80	Chain1	0.23	-6.3633
NII3	802.11ac VHT80	MIMO	3.240	-3.5859

Note: As measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result.

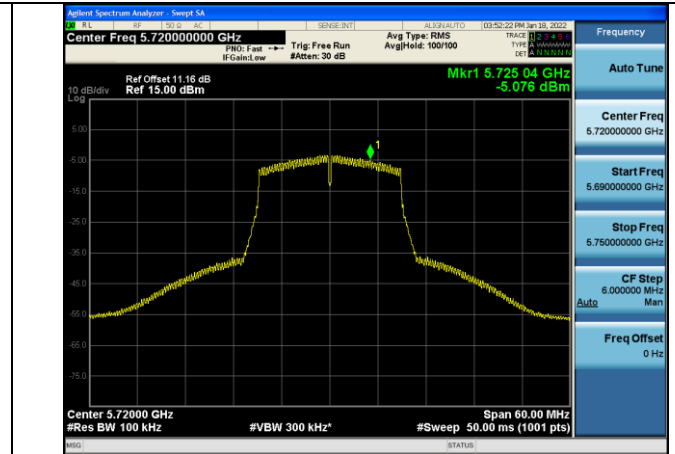
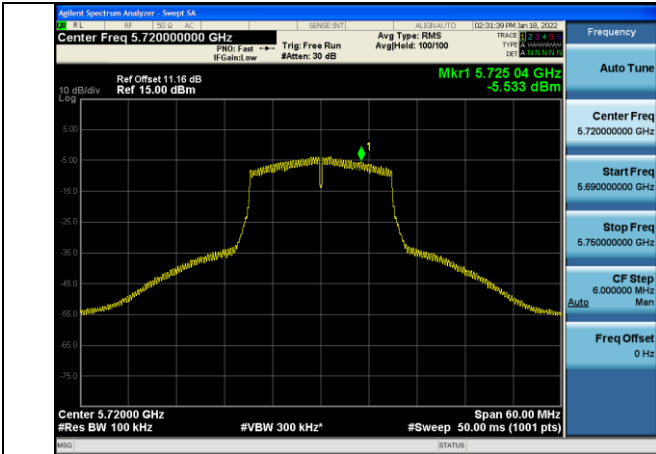
### Test Mode: 802.11a



### Test Mode: 802.11n HT20



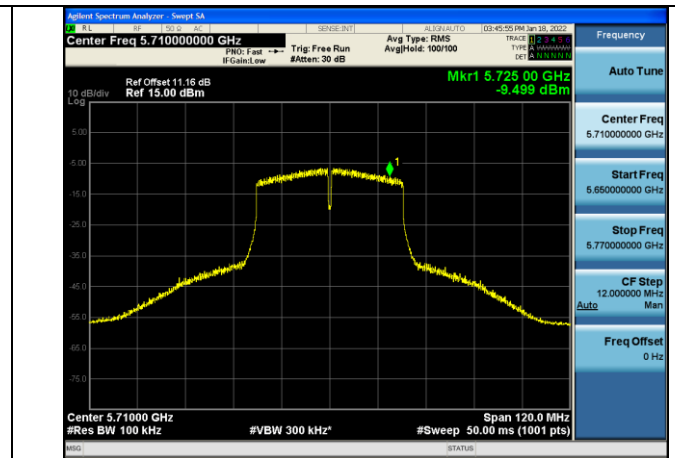
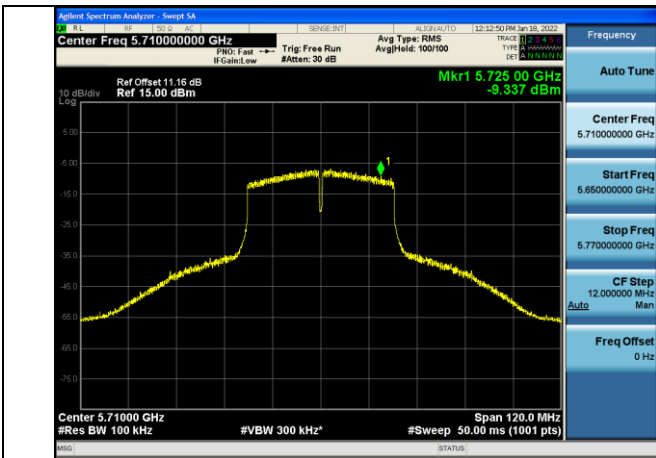
### Test Mode: 802.11ac VHT20



Test Mode:802.11ac VHT20 5720MHz Chain0 NII3

Test Mode:802.11ac VHT20 5720MHz Chain1 NII3

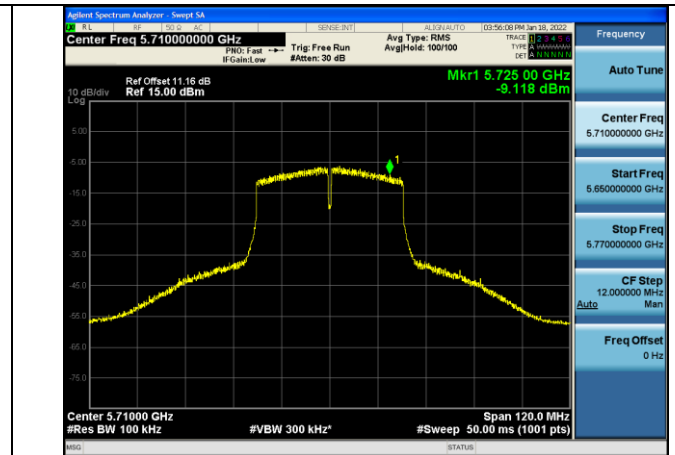
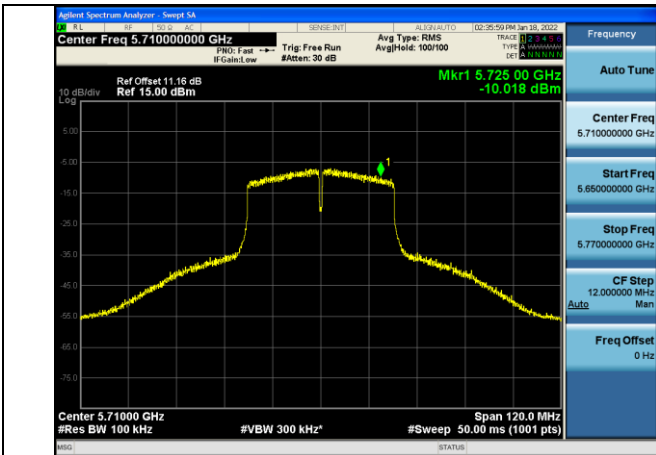
Test Mode: 802.11n HT40



Test Mode:802.11n HT40 5710MHz Chain0 NII3

Test Mode:802.11n HT40 5710MHz Chain1 NII3

Test Mode: 802.11ac VHT40



Test Mode:802.11ac VHT40 5710MHz Chain0 NII3

Test Mode:802.11ac VHT40 5710MHz Chain1 NII3

Test Mode: 802.11ac VHT80



