



APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Duty Cycle

Test Mode	Antenna	Frequency (MHz)	Duty Cycle (%)	Correction Factor(dB)	Plot
802.11a	Chain0	5180	99.87%	0	Fig.1
802.11a	Chain1	5180	99.86%	0	Fig.2
802.11n HT20	Chain0	5180	99.95%	0	Fig.3
802.11n HT20	Chain1	5180	99.96%	0	Fig.4
802.11ac VHT20	Chain0	5180	99.96%	0	Fig.5
802.11ac VHT20	Chain1	5180	99.94%	0	Fig.6
802.11n HT40	Chain0	5190	99.94%	0	Fig.7
802.11n HT40	Chain1	5190	99.95%	0	Fig.8
802.11ac VHT40	Chain0	5190	99.95%	0	Fig.9
802.11ac VHT40	Chain1	5190	99.95%	0	Fig.10
802.11ac VHT80	Chain0	5210	99.96%	0	Fig.11
802.11ac VHT80	Chain1	5210	99.96%	0	Fig.12
802.11ax HE20	Chain0	5180	99.96%	0	Fig.13
802.11ax HE20	Chain1	5180	99.95%	0	Fig.14
802.11ax HE40	Chain0	5190	99.96%	0	Fig.15
802.11ax HE40	Chain1	5190	99.97%	0	Fig.16
802.11ax HE80	Chain0	5210	99.96%	0	Fig.17
802.11ax HE80	Chain1	5210	99.97%	0	Fig.18

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

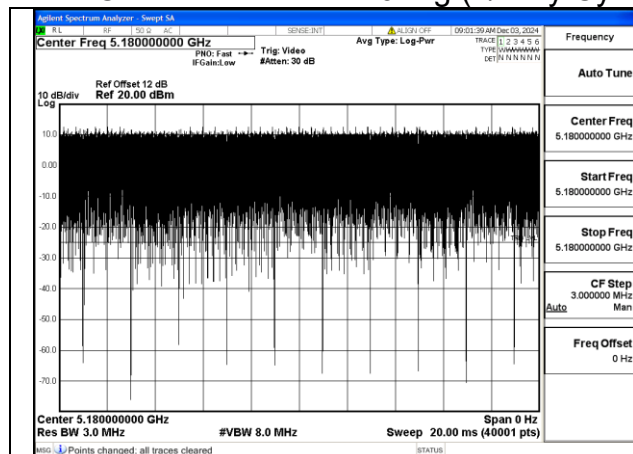


Fig.1

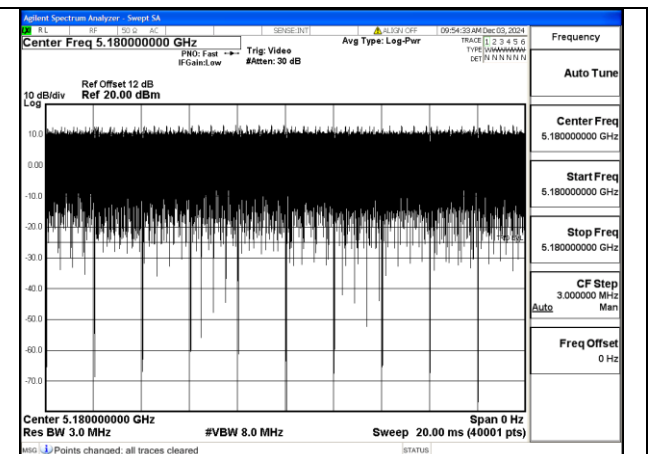


Fig.2



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No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

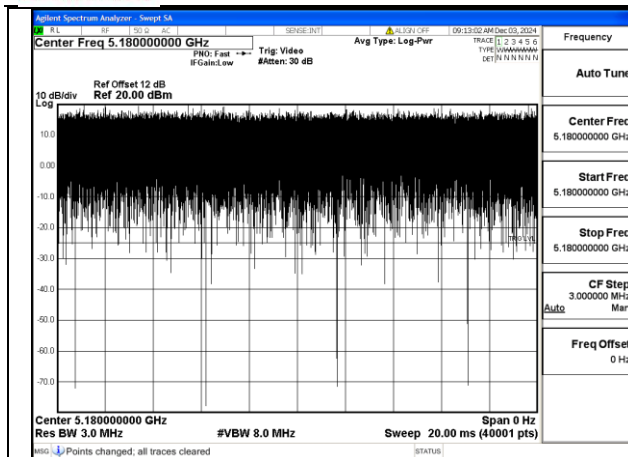


Fig.3

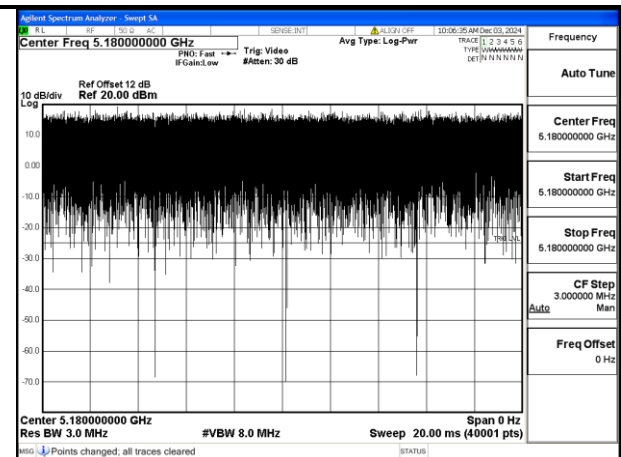


Fig.4

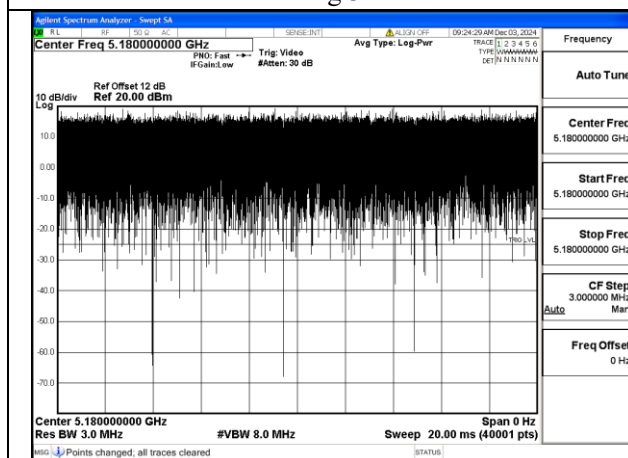


Fig.5

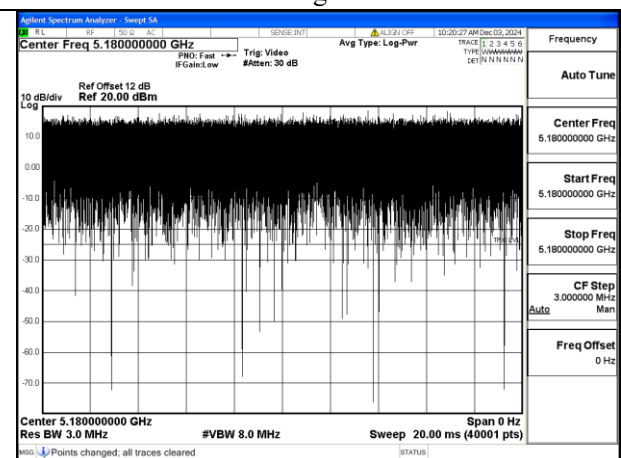


Fig.6

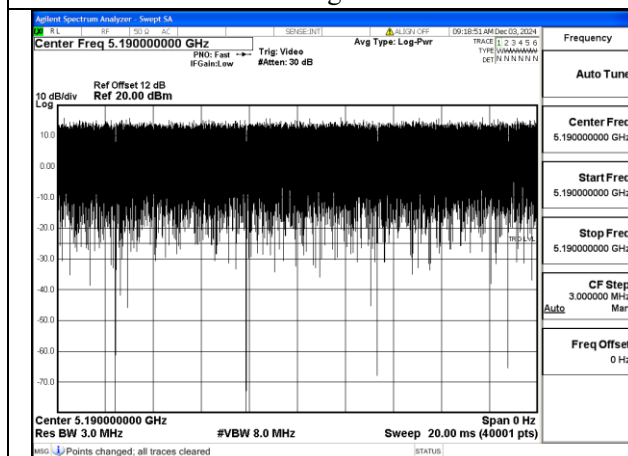


Fig.7

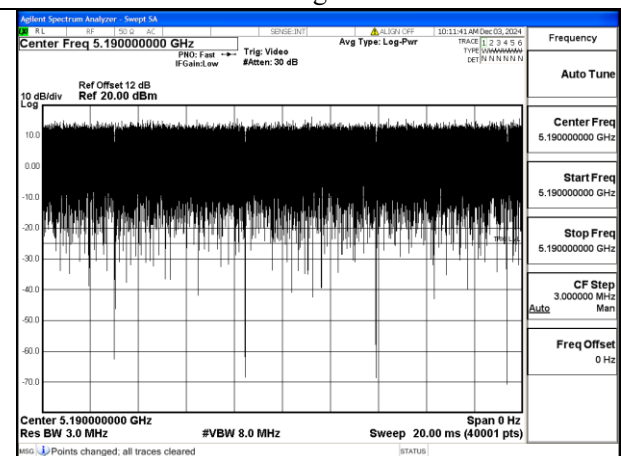


Fig.8



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No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

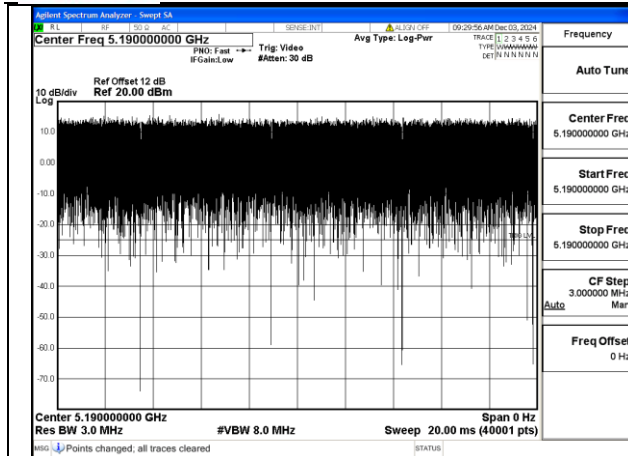


Fig.9

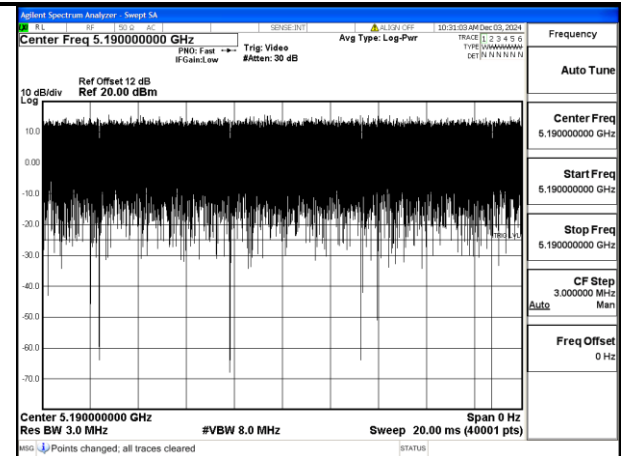


Fig.10

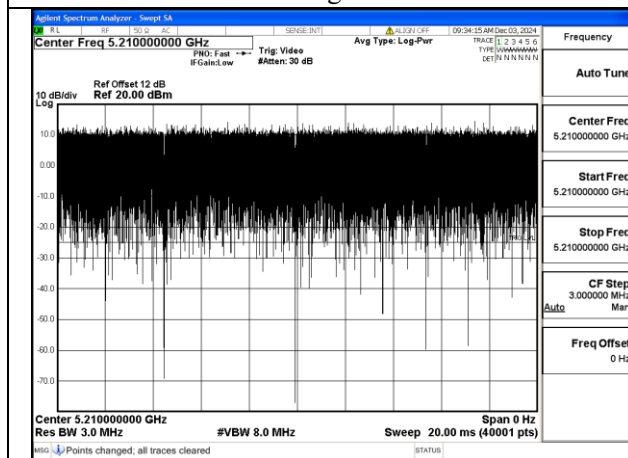


Fig.11

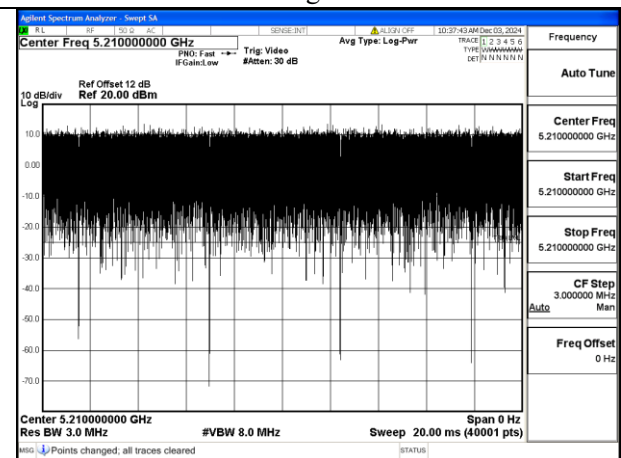


Fig.12

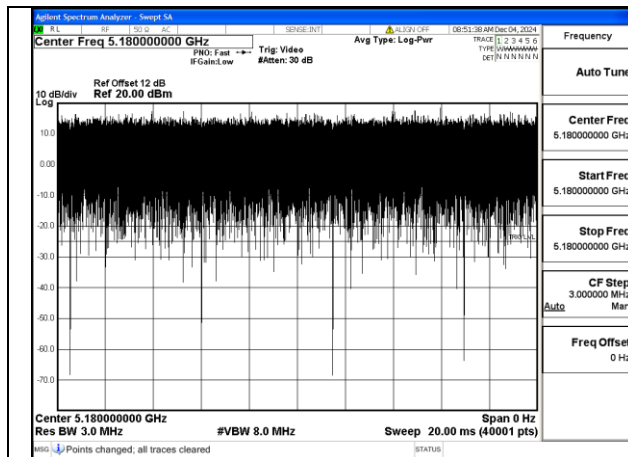


Fig.13

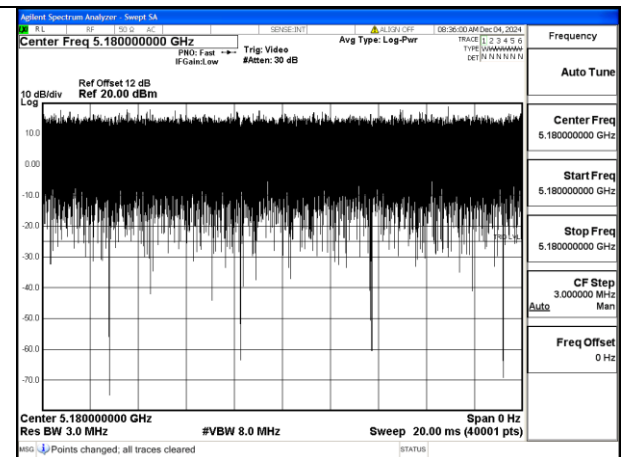


Fig.14



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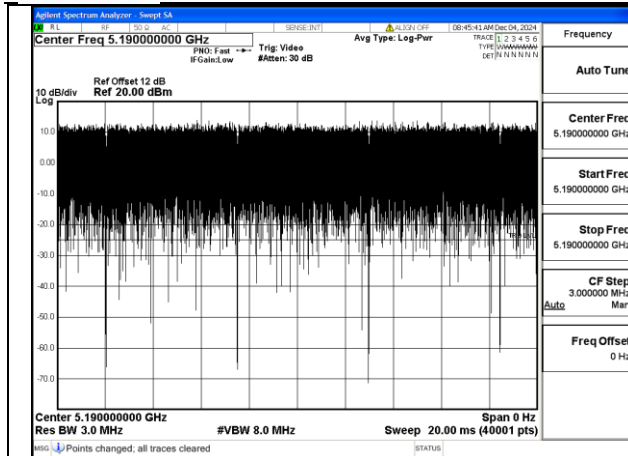


Fig.15

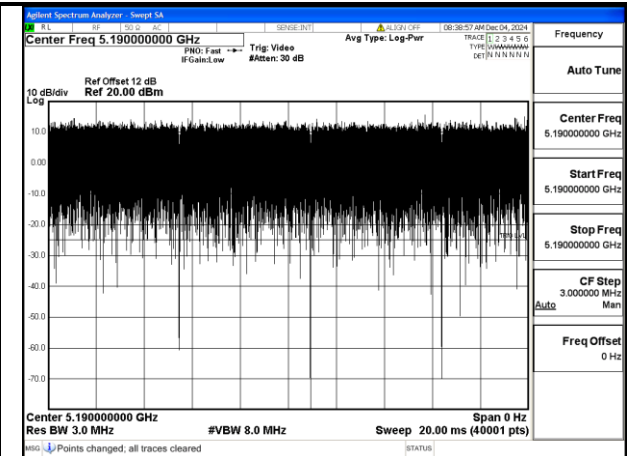


Fig.16

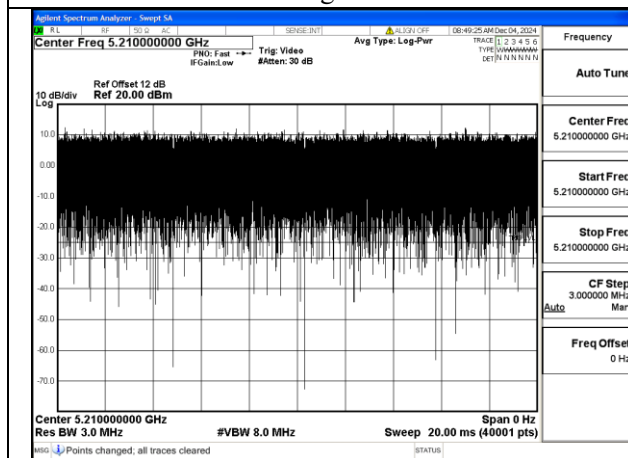


Fig.17

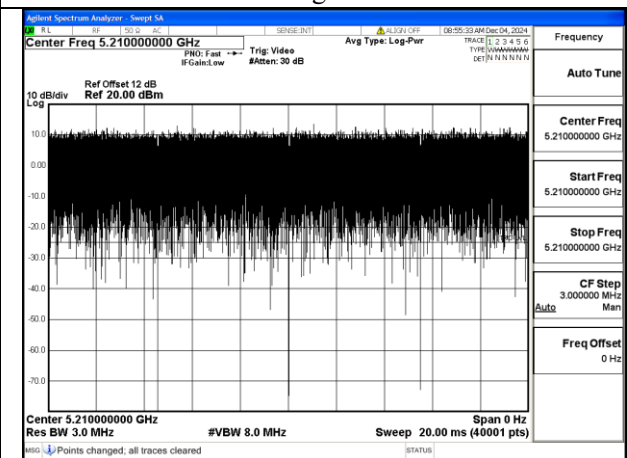


Fig.18

**Output Power**

Mode	Tones/ RUIndex	Frequency (MHz)	Antenna	Conducted average power output(dBm)	EIRP (dBm)
802.11a	NA	5180	Chain0	16.10	20.51
802.11a	NA	5180	Chain1	15.50	19.91
802.11a	NA	5220	Chain0	15.76	20.17
802.11a	NA	5220	Chain1	15.63	20.04
802.11a	NA	5240	Chain0	15.86	20.27
802.11a	NA	5240	Chain1	15.86	20.27
802.11n HT20	NA	5180	Chain0	15.13	19.54
802.11n HT20	NA	5180	Chain1	14.36	18.77
802.11n HT20	NA	5180	MIMO	17.77	22.18
802.11n HT20	NA	5220	Chain0	15.50	19.91
802.11n HT20	NA	5220	Chain1	15.24	19.65
802.11n HT20	NA	5220	MIMO	18.38	22.79
802.11n HT20	NA	5240	Chain0	15.53	19.94
802.11n HT20	NA	5240	Chain1	15.48	19.89
802.11n HT20	NA	5240	MIMO	18.52	22.93
802.11ac VHT20	NA	5180	Chain0	14.78	19.19
802.11ac VHT20	NA	5180	Chain1	14.36	18.77
802.11ac VHT20	NA	5180	MIMO	17.59	22.00
802.11ac VHT20	NA	5220	Chain0	15.09	19.50
802.11ac VHT20	NA	5220	Chain1	15.23	19.64
802.11ac VHT20	NA	5220	MIMO	18.17	22.58
802.11ac VHT20	NA	5240	Chain0	15.15	19.56
802.11ac VHT20	NA	5240	Chain1	15.46	19.87
802.11ac VHT20	NA	5240	MIMO	18.32	22.73
802.11n HT40	NA	5190	Chain0	15.91	20.32
802.11n HT40	NA	5190	Chain1	15.01	19.42
802.11n HT40	NA	5190	MIMO	18.49	22.90
802.11n HT40	NA	5230	Chain0	16.04	20.45
802.11n HT40	NA	5230	Chain1	15.77	20.18
802.11n HT40	NA	5230	MIMO	18.92	23.33
802.11ac VHT40	NA	5190	Chain0	15.48	19.89
802.11ac VHT40	NA	5190	Chain1	15.50	19.91
802.11ac VHT40	NA	5190	MIMO	18.50	22.91
802.11ac VHT40	NA	5230	Chain0	16.05	20.46
802.11ac VHT40	NA	5230	Chain1	15.77	20.18
802.11ac VHT40	NA	5230	MIMO	18.92	23.33
802.11ac VHT80	NA	5210	Chain0	15.65	20.06
802.11ac VHT80	NA	5210	Chain1	15.26	19.67
802.11ac VHT80	NA	5210	MIMO	18.47	22.88
802.11ax HE20	242T 61	5180	Chain0	16.00	20.41
802.11ax HE20	242T 61	5180	Chain1	14.70	19.11
802.11ax HE20	242T 61	5180	MIMO	18.41	22.82



802.11ax HE20	242T 61	5220	Chain0	15.55	19.96
802.11ax HE20	242T 61	5220	Chain1	14.86	19.27
802.11ax HE20	242T 61	5220	MIMO	18.23	22.64
802.11ax HE20	242T 61	5240	Chain0	15.72	20.13
802.11ax HE20	242T 61	5240	Chain1	14.79	19.20
802.11ax HE20	242T 61	5240	MIMO	18.29	22.70
802.11ax HE40	484T 65	5190	Chain0	15.58	19.99
802.11ax HE40	484T 65	5190	Chain1	15.37	19.78
802.11ax HE40	484T 65	5190	MIMO	18.49	22.90
802.11ax HE40	484T 65	5230	Chain0	15.54	19.95
802.11ax HE40	484T 65	5230	Chain1	15.38	19.79
802.11ax HE40	484T 65	5230	MIMO	18.47	22.88
802.11ax HE80	996T 67	5210	Chain0	15.26	19.67
802.11ax HE80	996T 67	5210	Chain1	15.25	19.66
802.11ax HE80	996T 67	5210	MIMO	18.27	22.68

**Emission Bandwidth**

Offset 12dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	18.48	18.77	18.65
802.11a	Chain1	18.55	18.75	19.44
802.11n HT20	Chain0	19.91	19.90	20.00
802.11n HT20	Chain1	20.10	20.06	19.50
802.11ac VHT20	Chain0	19.95	19.67	20.42
802.11ac VHT20	Chain1	20.18	19.82	19.96

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	38.92	---	39.19
802.11n HT40	Chain1	39.24	---	39.24
802.11ac VHT40	Chain0	39.86	---	39.25
802.11ac VHT40	Chain1	39.14	---	39.17

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	80.82	---	---
802.11ac VHT80	Chain1	80.52	---	---

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11ax HE20	Chain0	20.41	20.46	20.61
802.11ax HE20	Chain1	20.12	20.48	20.85

Test Mode	Antenna	26dB Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11ax HE40	Chain0	39.94	---	40.15
802.11ax HE40	Chain1	40.41	---	40.18

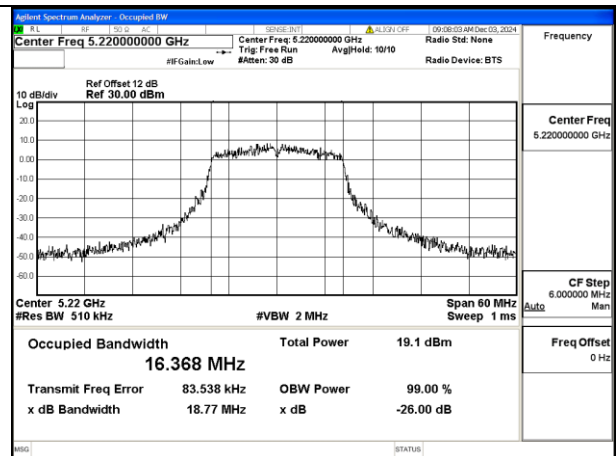
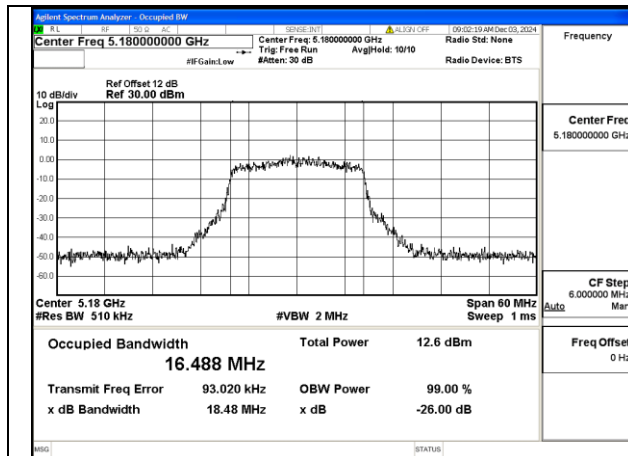
Test Mode	Antenna	26dB Bandwidth (MHz)		
		5210MHz	---	---
802.11ax HE80	Chain0	81.87	---	---
802.11ax HE80	Chain1	80.49	---	---



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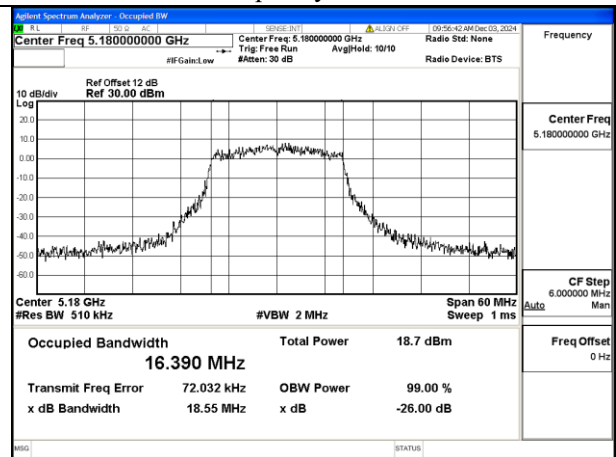
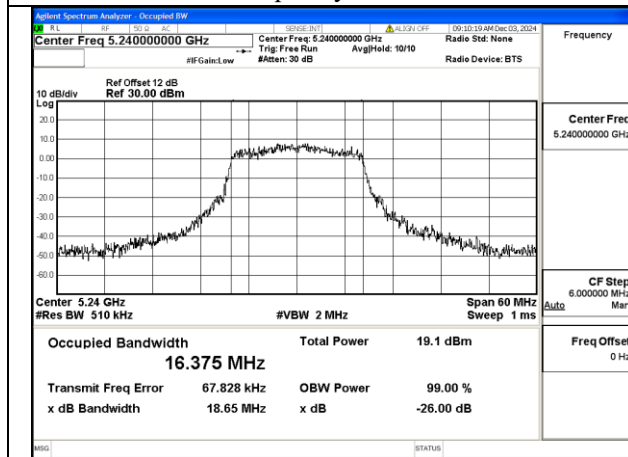
No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11a



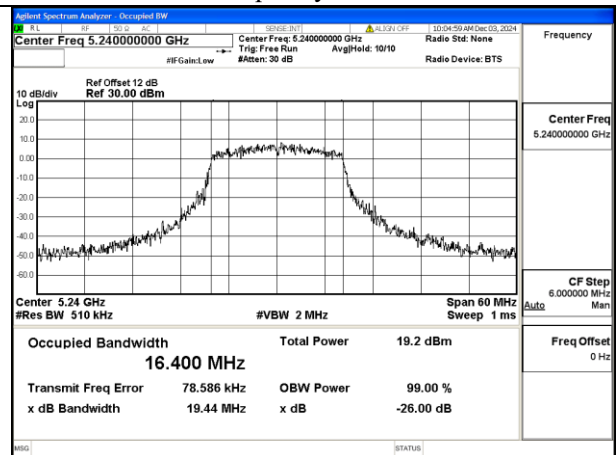
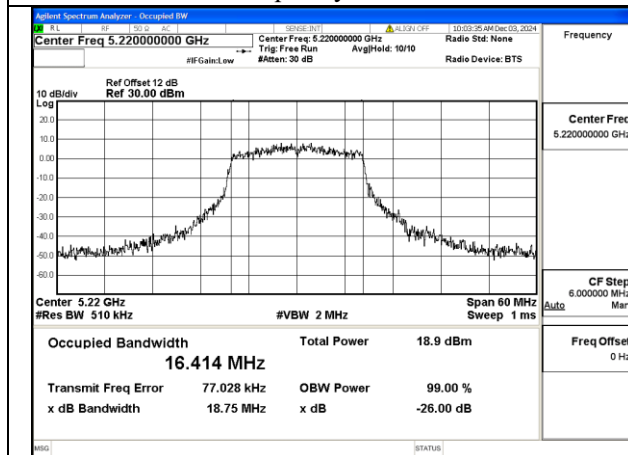
Mode:802.11a Frequency:5180MHz Ant:Chain0

Mode:802.11a Frequency:5220MHz Ant:Chain0



Mode:802.11a Frequency:5240MHz Ant:Chain0

Mode:802.11a Frequency:5180MHz Ant:Chain1

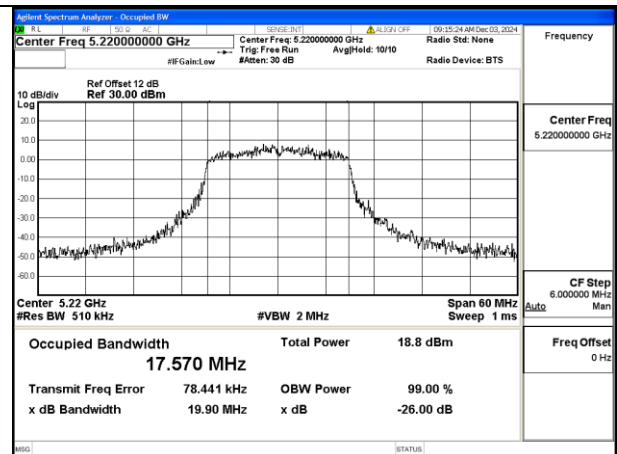
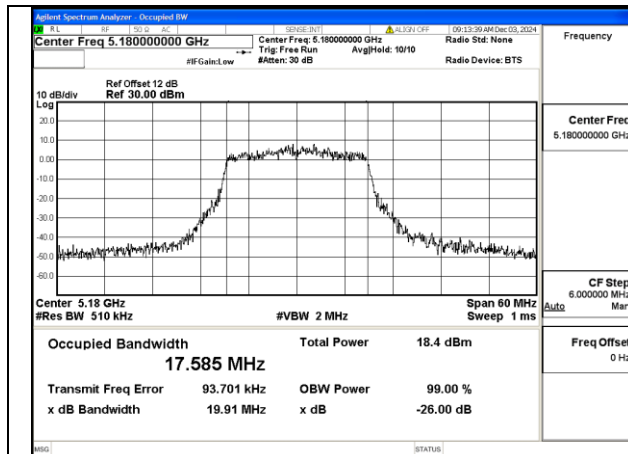


Mode:802.11a Frequency:5220MHz Ant:Chain1

Mode:802.11a Frequency:5240MHz Ant:Chain1

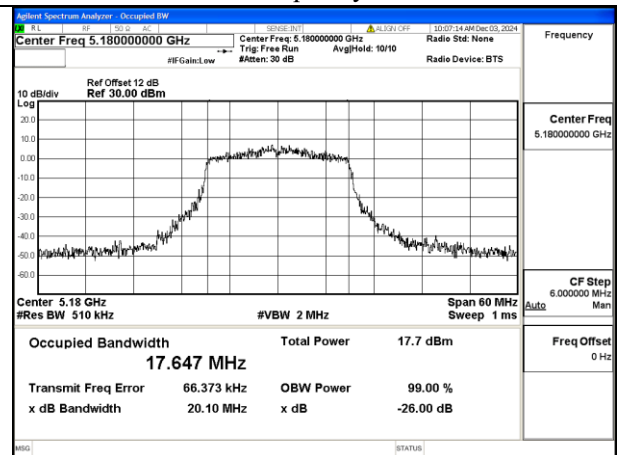
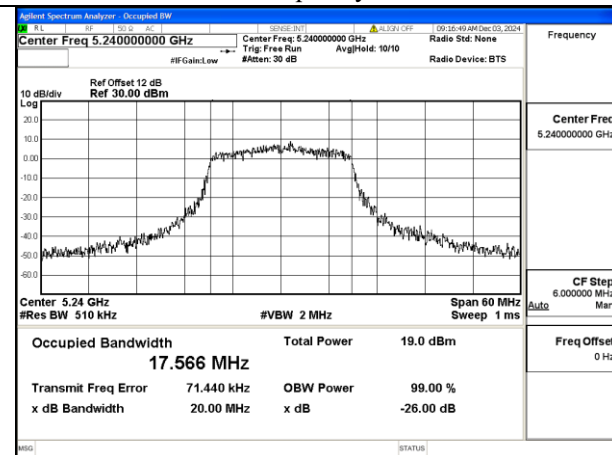


Test Mode: 802.11n HT20



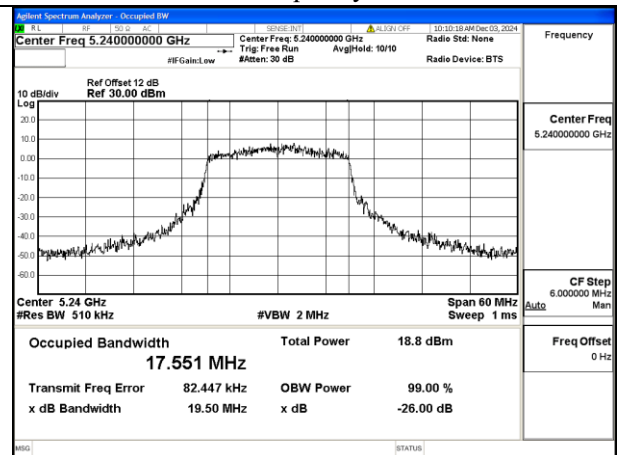
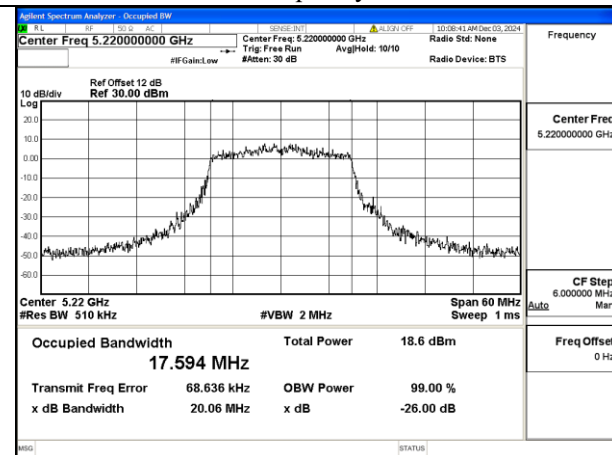
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

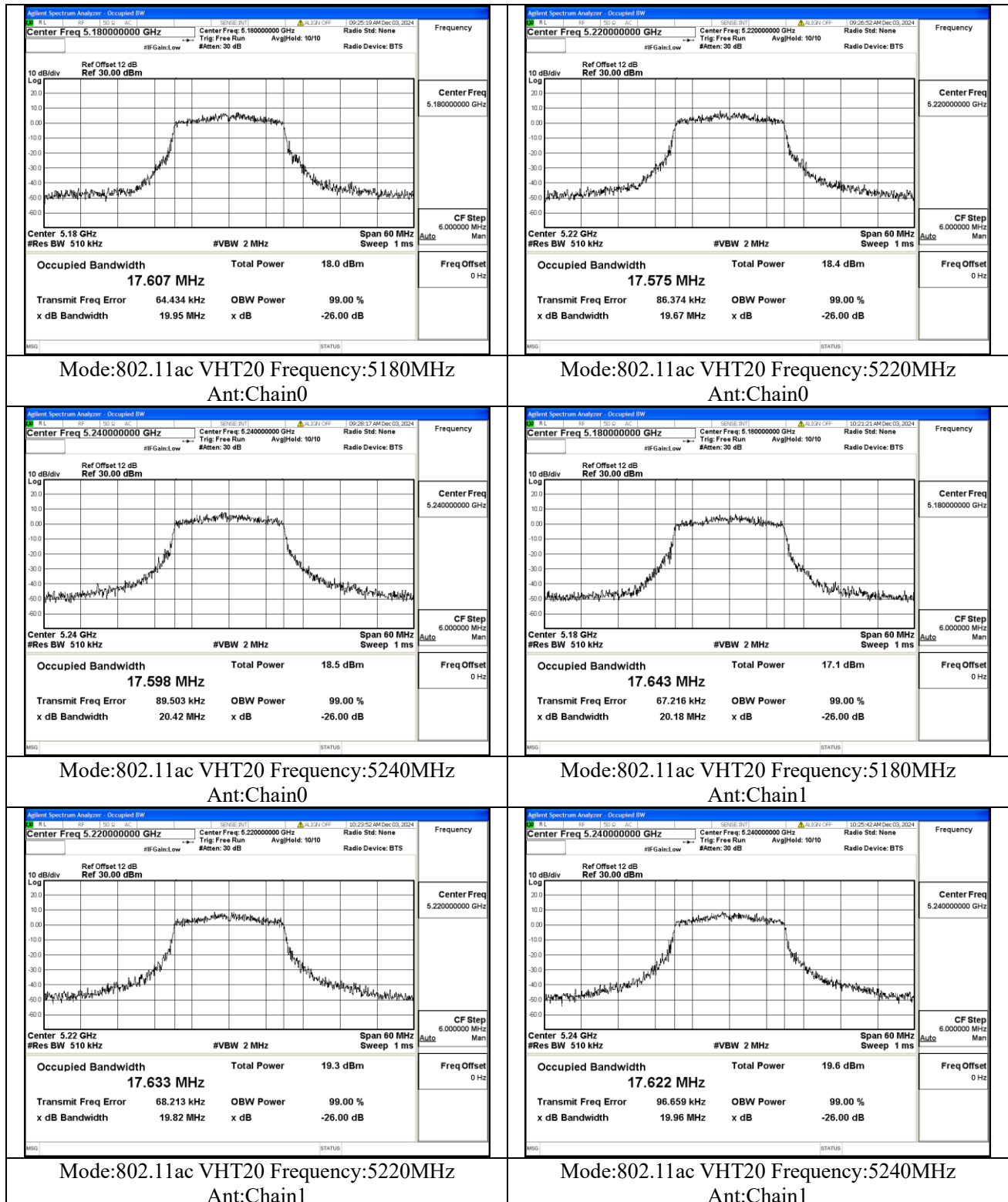
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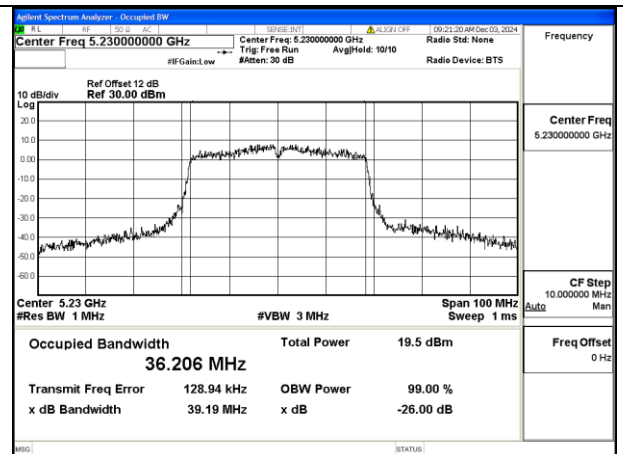
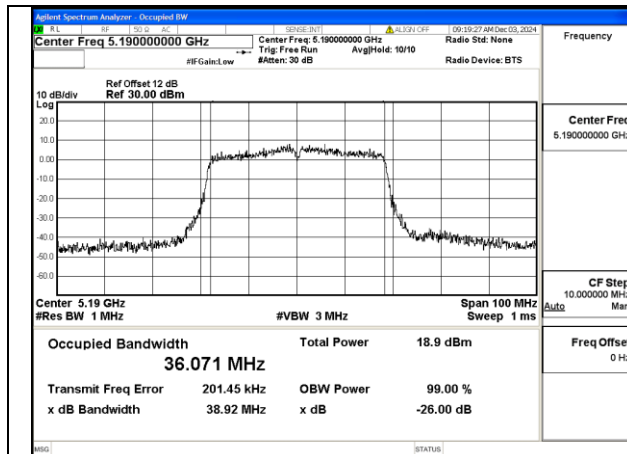
No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11ac VHT20



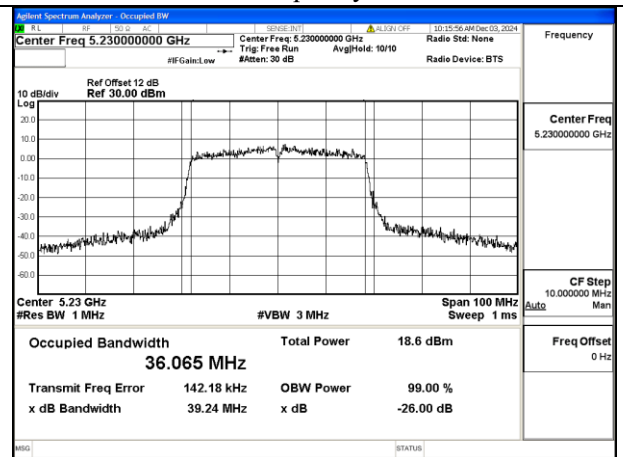
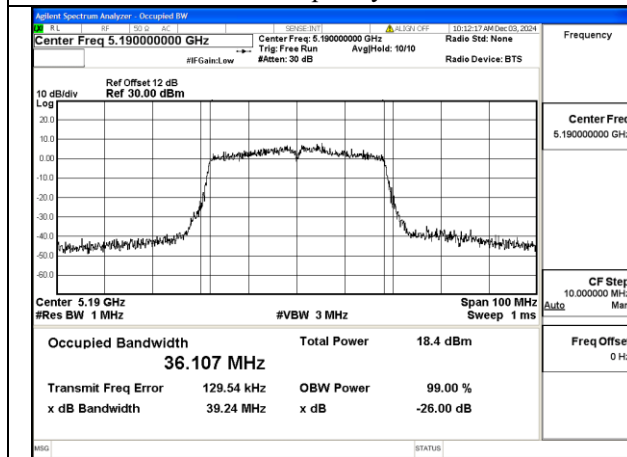


Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0

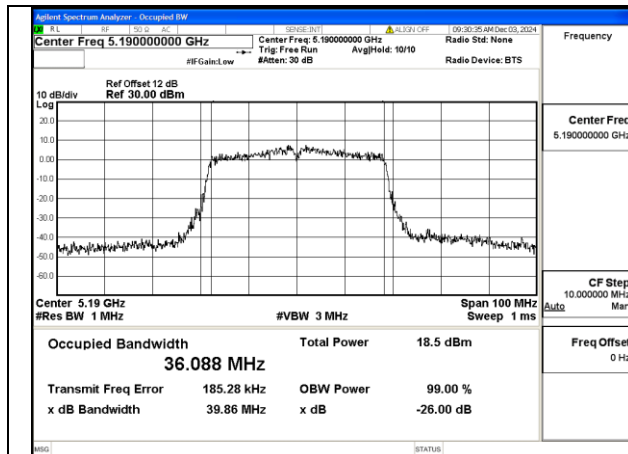


Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1

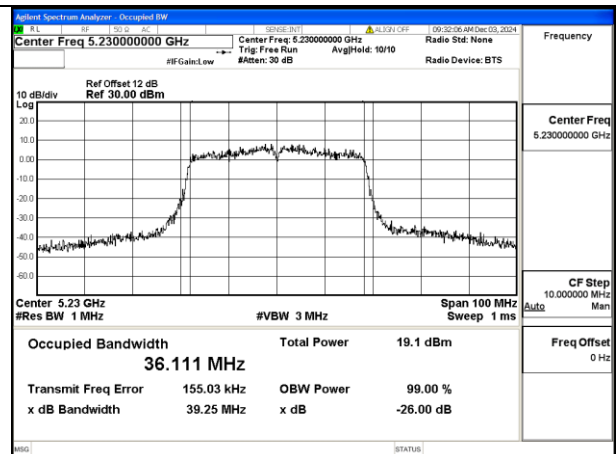
Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1



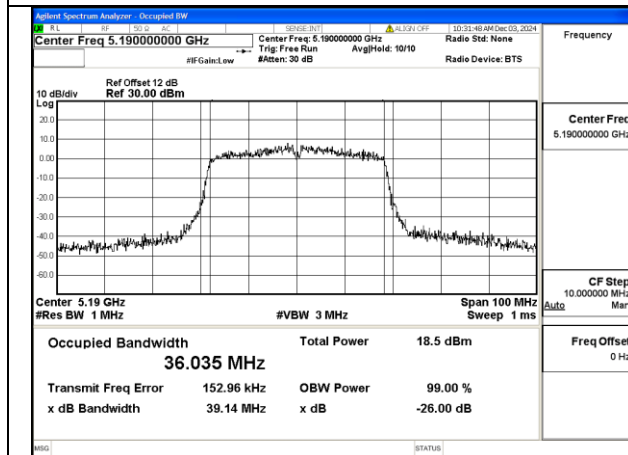
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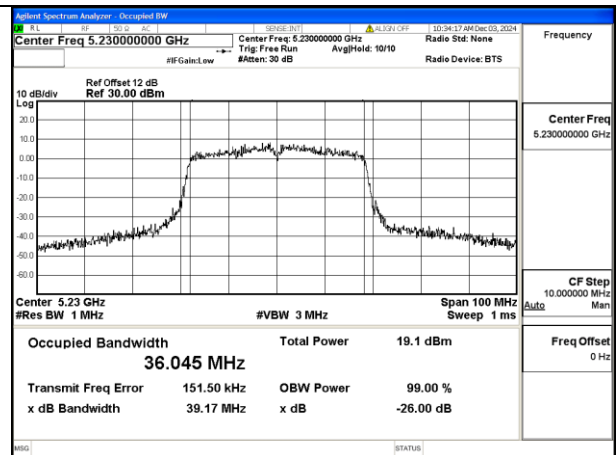
Mode:802.11ac VHT40 Frequency:5190MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5230MHz
Ant:Chain0

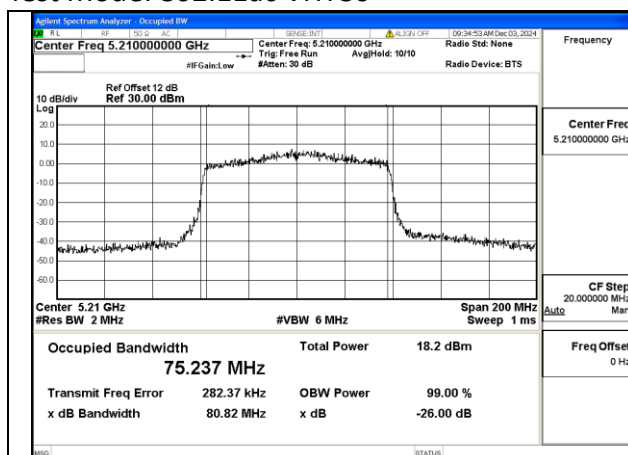


Mode:802.11ac VHT40 Frequency:5190MHz
Ant:Chain1

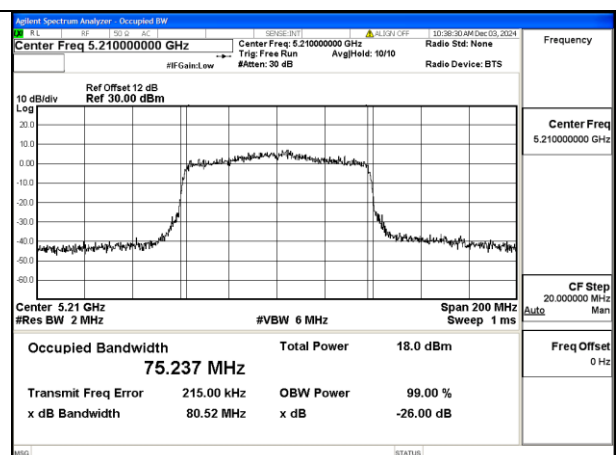


Mode:802.11ac VHT40 Frequency:5230MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz
Ant:Chain0



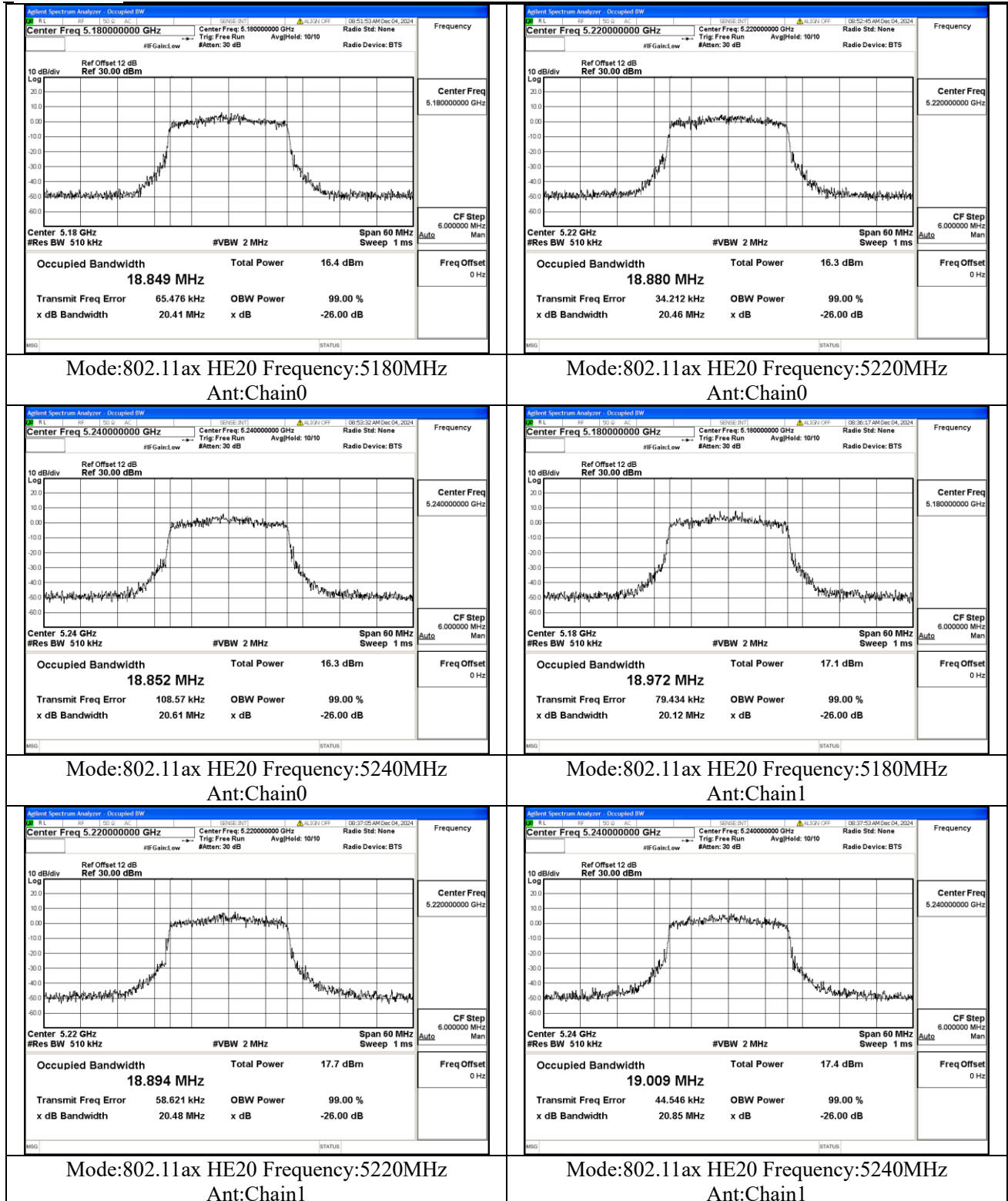
Mode:802.11ac VHT80 Frequency:5210MHz
Ant:Chain1

Test Mode: 802.11ax HE20



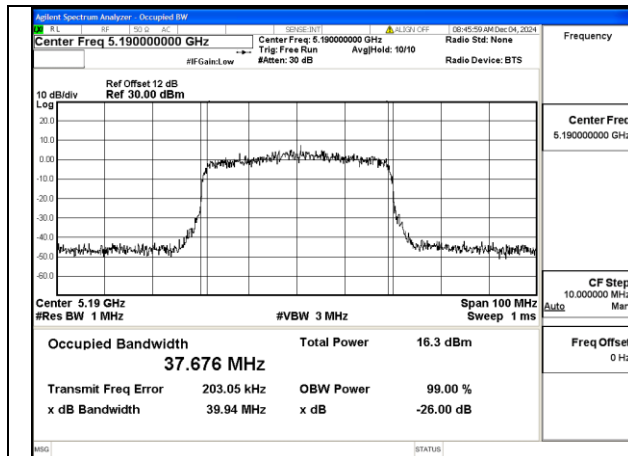
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No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

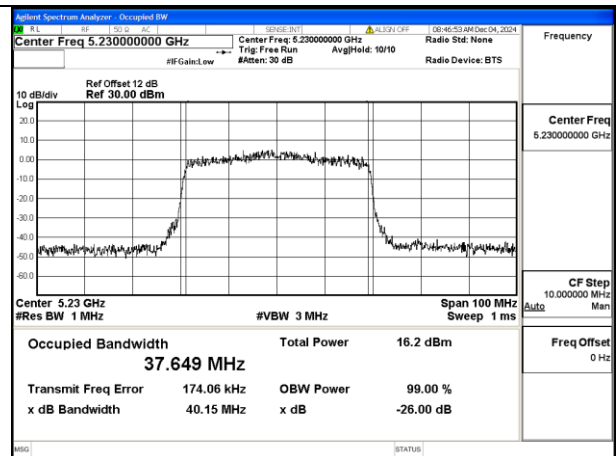




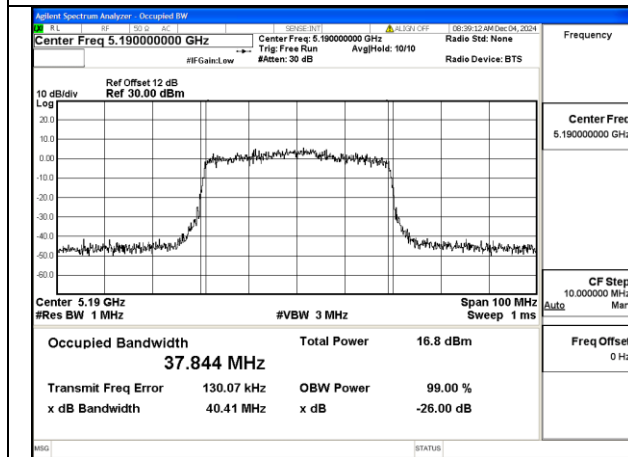
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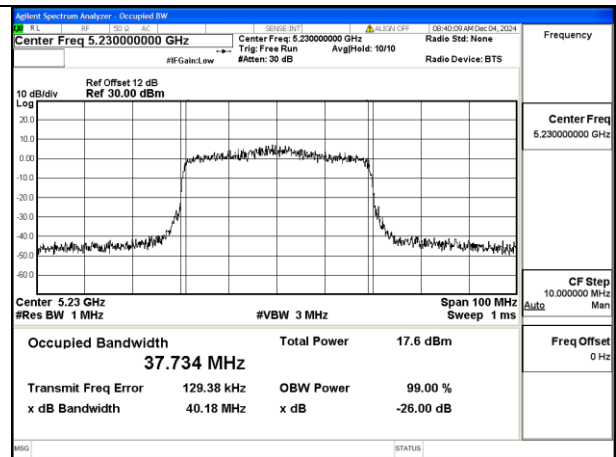
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Ant:Chain0



Mode:802.11ax HE40 Frequency:5230MHz
Ant:Chain0

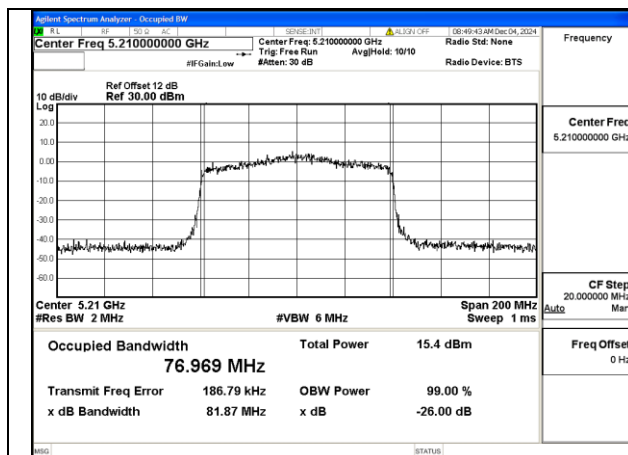


Mode:802.11ax HE40 Frequency:5190MHz
Ant:Chain1

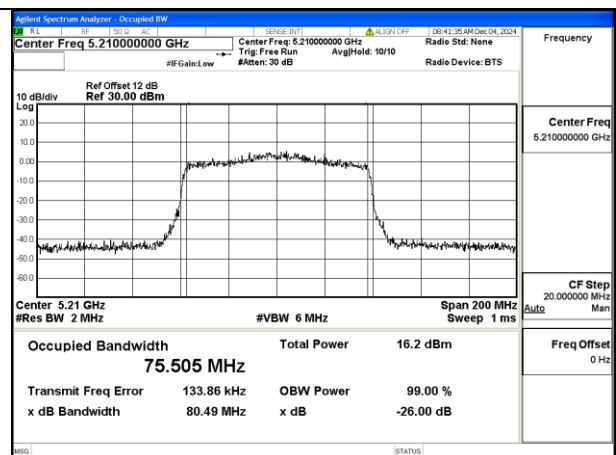


Mode:802.11ax HE40 Frequency:5230MHz
Ant:Chain1

Test Mode: 802.11ax HE80



Mode:802.11ax HE80 Frequency:5210MHz
Ant:Chain0



Mode:802.11ax HE80 Frequency:5210MHz
Ant:Chain1



Occupied Bandwidth

Offset 12dB = Attenuator + Temporary antenna connector loss + Cable loss

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11a	Chain0	16.438	16.349	16.416
802.11a	Chain1	16.397	16.402	16.373
802.11n HT20	Chain0	17.625	17.615	17.589
802.11n HT20	Chain1	17.626	17.566	17.567
802.11ac VHT20	Chain0	17.586	17.598	17.596
802.11ac VHT20	Chain1	17.612	17.586	17.567

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11n HT40	Chain0	36.052	---	36.064
802.11n HT40	Chain1	36.036	---	36.157
802.11ac VHT40	Chain0	36.055	---	36.076
802.11ac VHT40	Chain1	35.971	---	36.180

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ac VHT80	Chain0	75.186	---	---
802.11ac VHT80	Chain1	75.416	---	---

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5180MHz	5220MHz	5240MHz
802.11ax HE20	Chain0	18.849	18.929	18.949
802.11ax HE20	Chain1	18.802	18.901	18.949

Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5190MHz	---	5230MHz
802.11ax HE40	Chain0	37.803	---	37.638
802.11ax HE40	Chain1	37.813	---	37.710

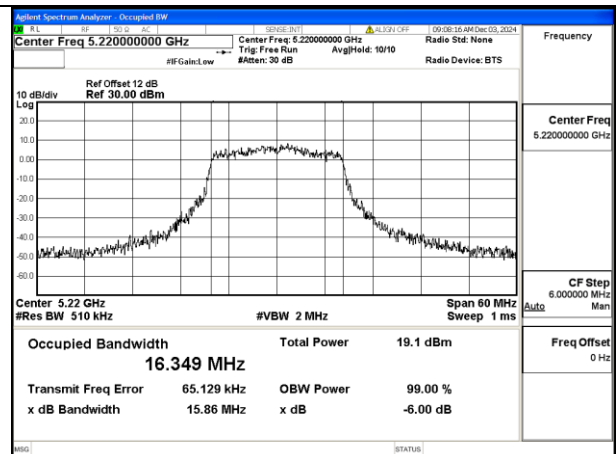
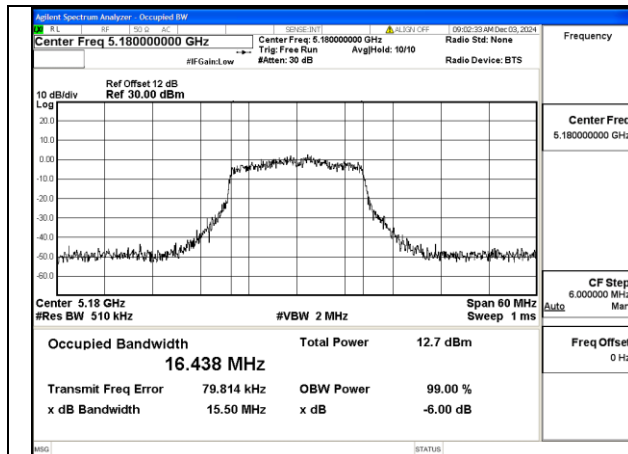
Test Mode	Antenna	Occupied Bandwidth (MHz)		
		5210MHz	---	---
802.11ax HE80	Chain0	76.941	---	---
802.11ax HE80	Chain1	75.525	---	---



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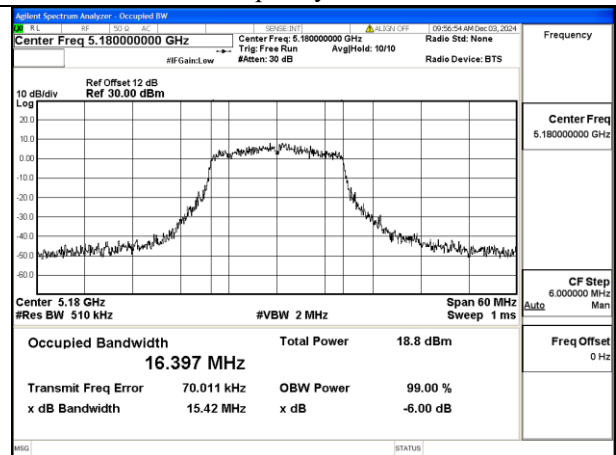
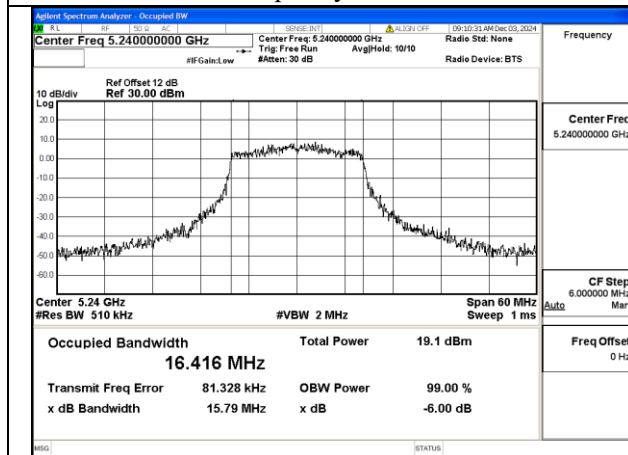
No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11a



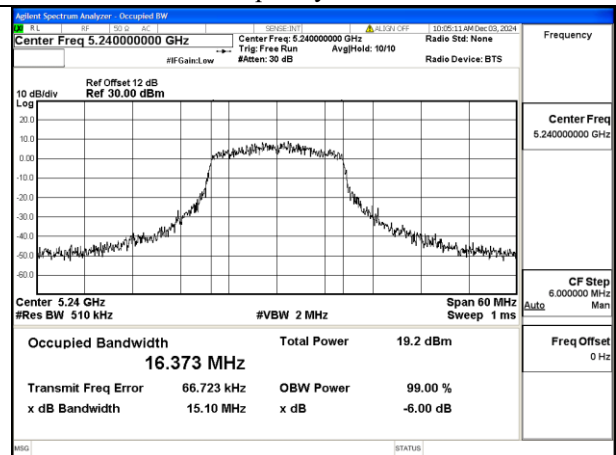
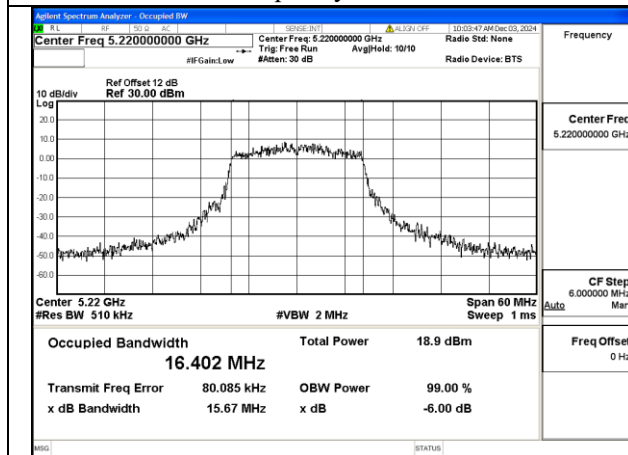
Mode:802.11a Frequency:5180MHz Ant:Chain0

Mode:802.11a Frequency:5220MHz Ant:Chain0



Mode:802.11a Frequency:5240MHz Ant:Chain0

Mode:802.11a Frequency:5180MHz Ant:Chain1

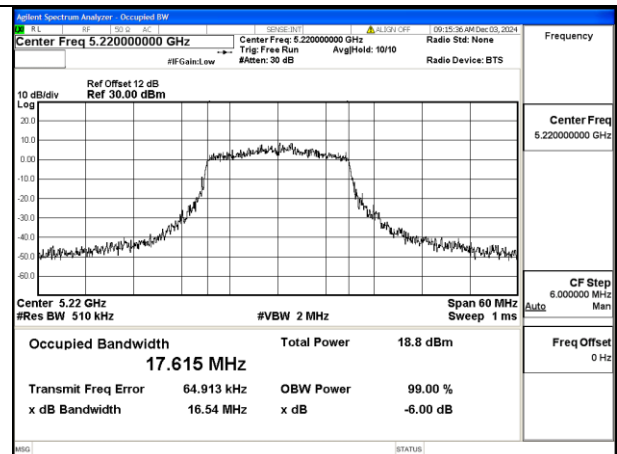
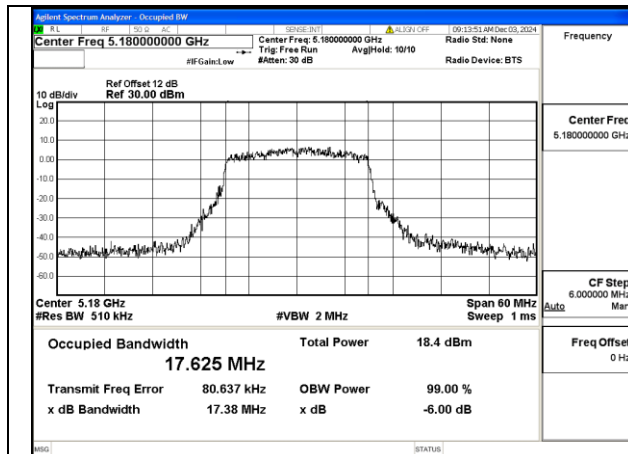


Mode:802.11a Frequency:5220MHz Ant:Chain1

Mode:802.11a Frequency:5240MHz Ant:Chain1

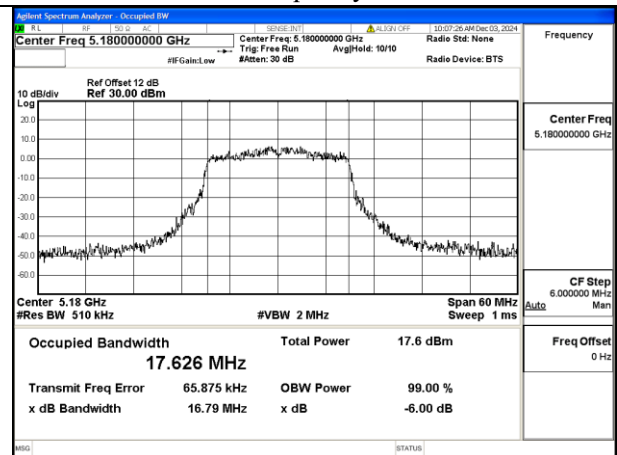
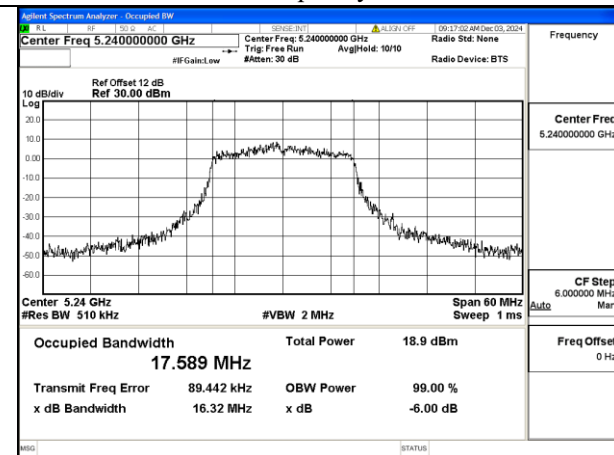


Test Mode: 802.11n HT20



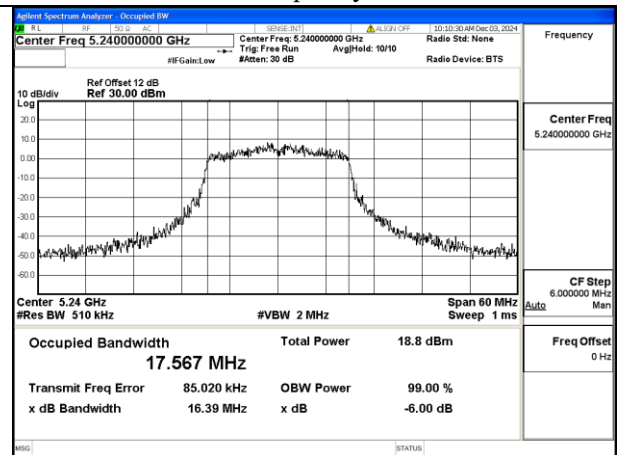
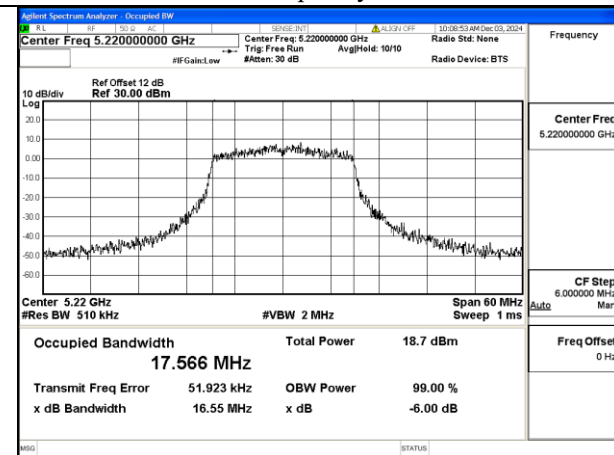
Mode:802.11n HT20 Frequency:5180MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5220MHz Ant:Chain0



Mode:802.11n HT20 Frequency:5240MHz Ant:Chain0

Mode:802.11n HT20 Frequency:5180MHz Ant:Chain1



Mode:802.11n HT20 Frequency:5220MHz Ant:Chain1

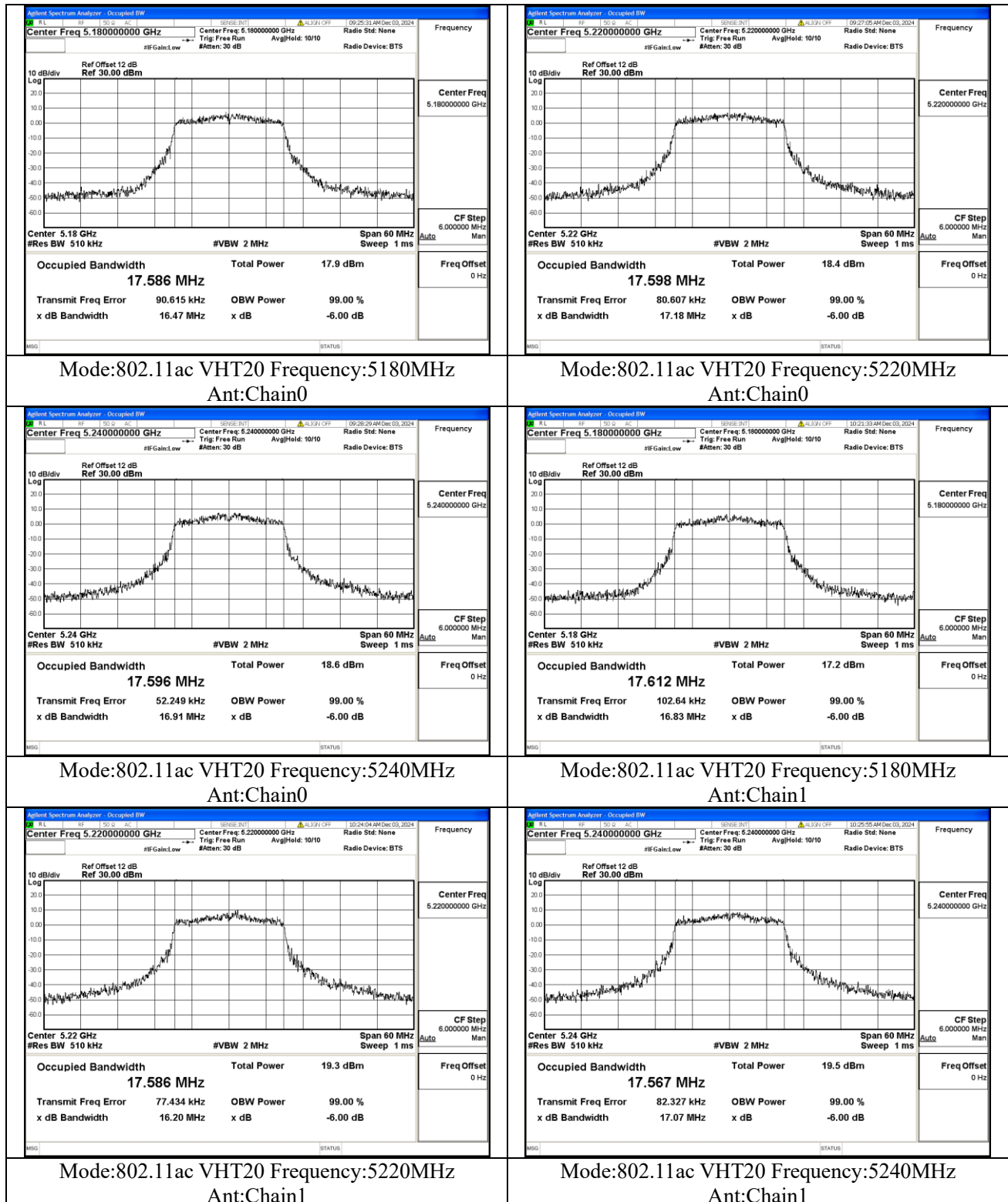
Mode:802.11n HT20 Frequency:5240MHz Ant:Chain1



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VERITAS

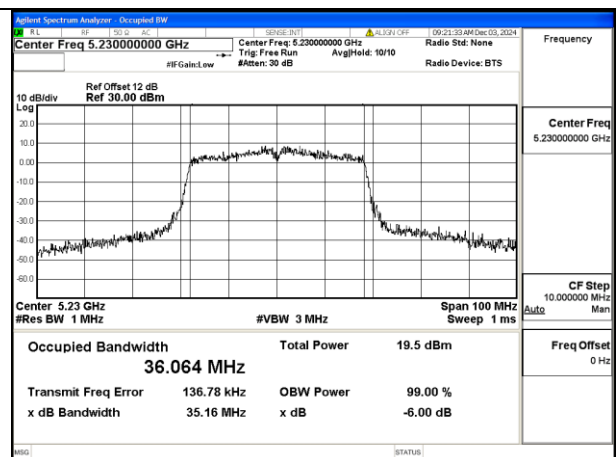
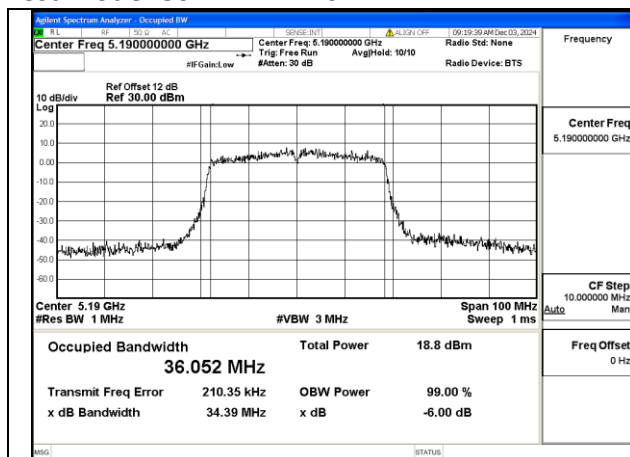
No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

Test Mode: 802.11ac VHT20



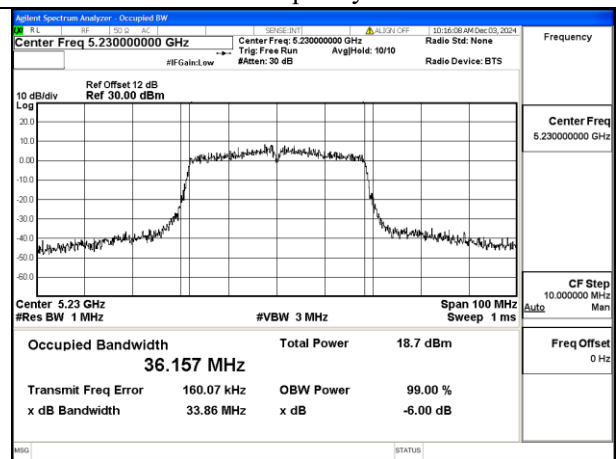
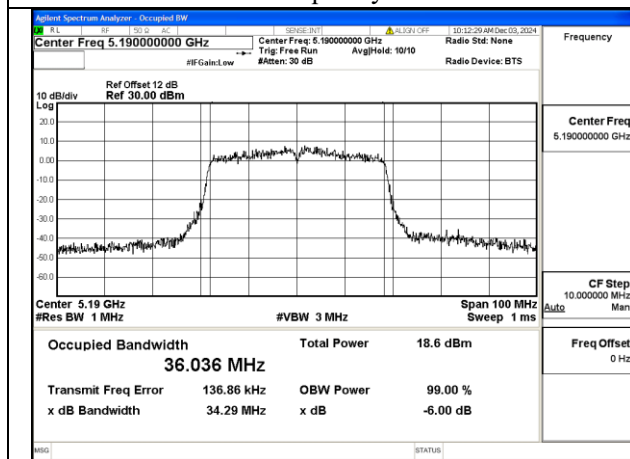


Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain0

Mode:802.11n HT40 Frequency:5230MHz Ant:Chain0



Mode:802.11n HT40 Frequency:5190MHz Ant:Chain1

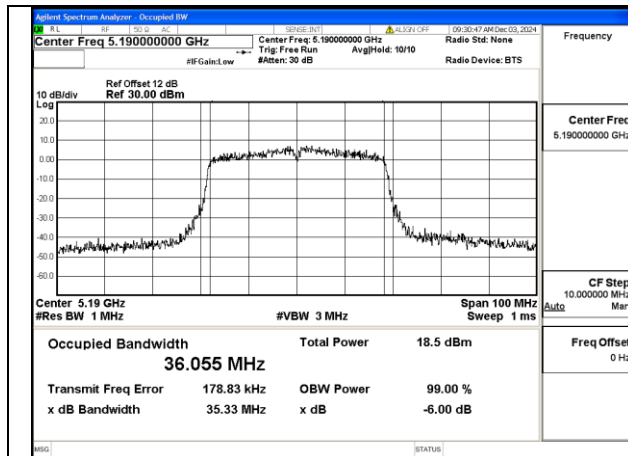
Mode:802.11n HT40 Frequency:5230MHz Ant:Chain1



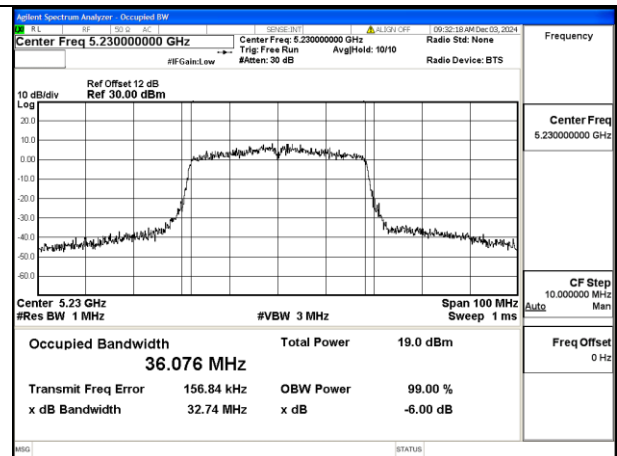
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No.: PSU-NQN2412170317RF04
FCC ID: 2AANY-ER815NRQ3

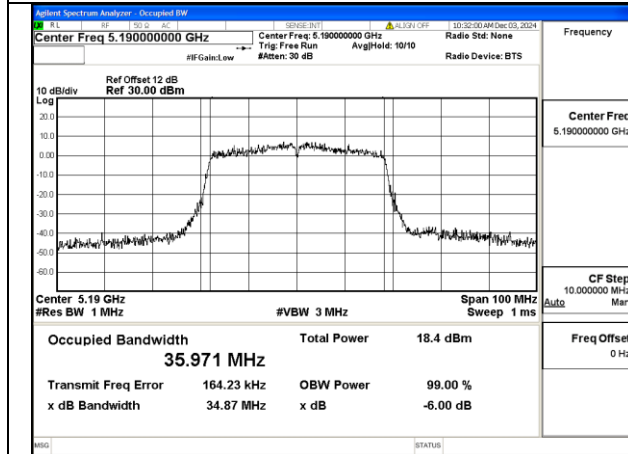
Test Mode: 802.11ac VHT40



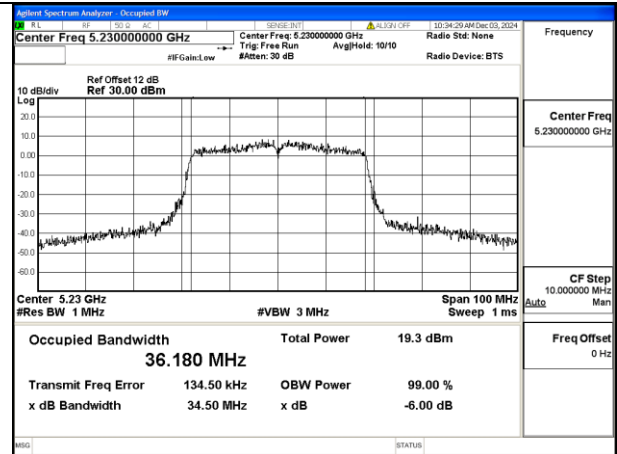
Mode:802.11ac VHT40 Frequency:5190MHz
Ant:Chain0



Mode:802.11ac VHT40 Frequency:5230MHz
Ant:Chain0

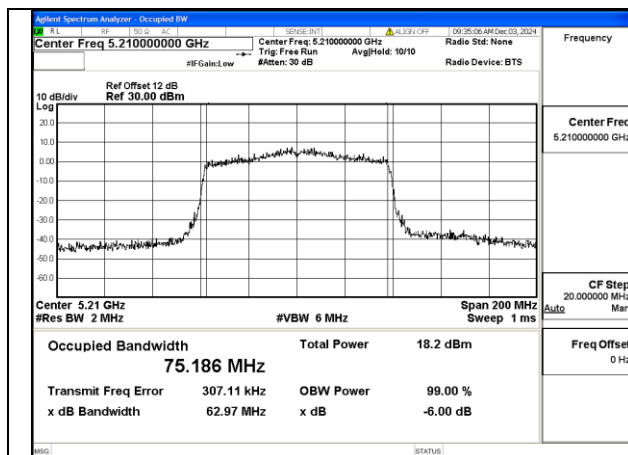


Mode:802.11ac VHT40 Frequency:5190MHz
Ant:Chain1

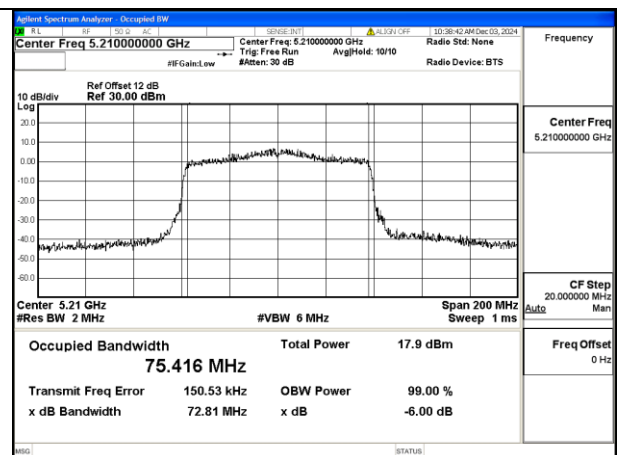


Mode:802.11ac VHT40 Frequency:5230MHz
Ant:Chain1

Test Mode: 802.11ac VHT80



Mode:802.11ac VHT80 Frequency:5210MHz
Ant:Chain0



Mode:802.11ac VHT80 Frequency:5210MHz
Ant:Chain1