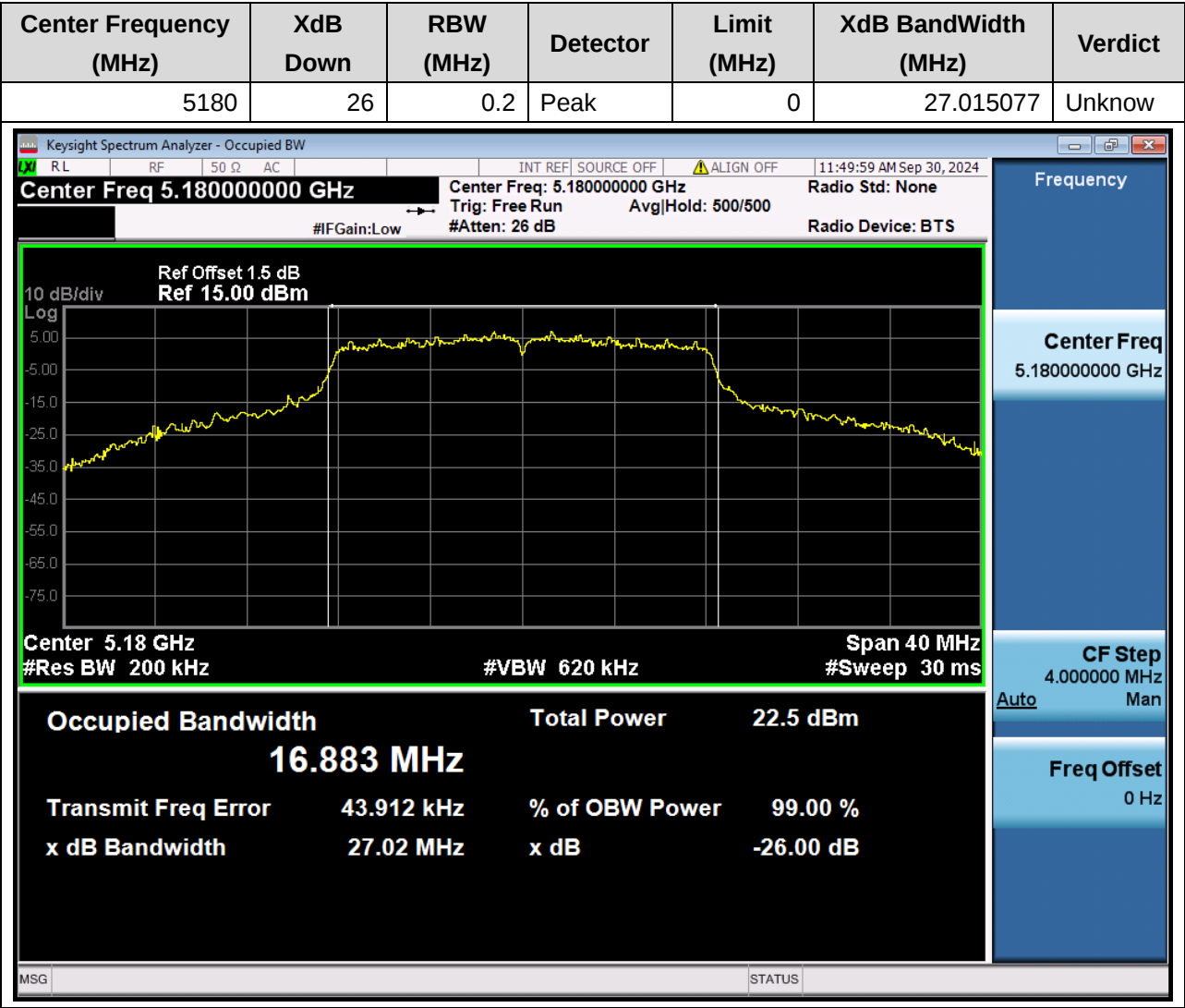


Annex A. Emission Bandwidth & 99% Bandwidth

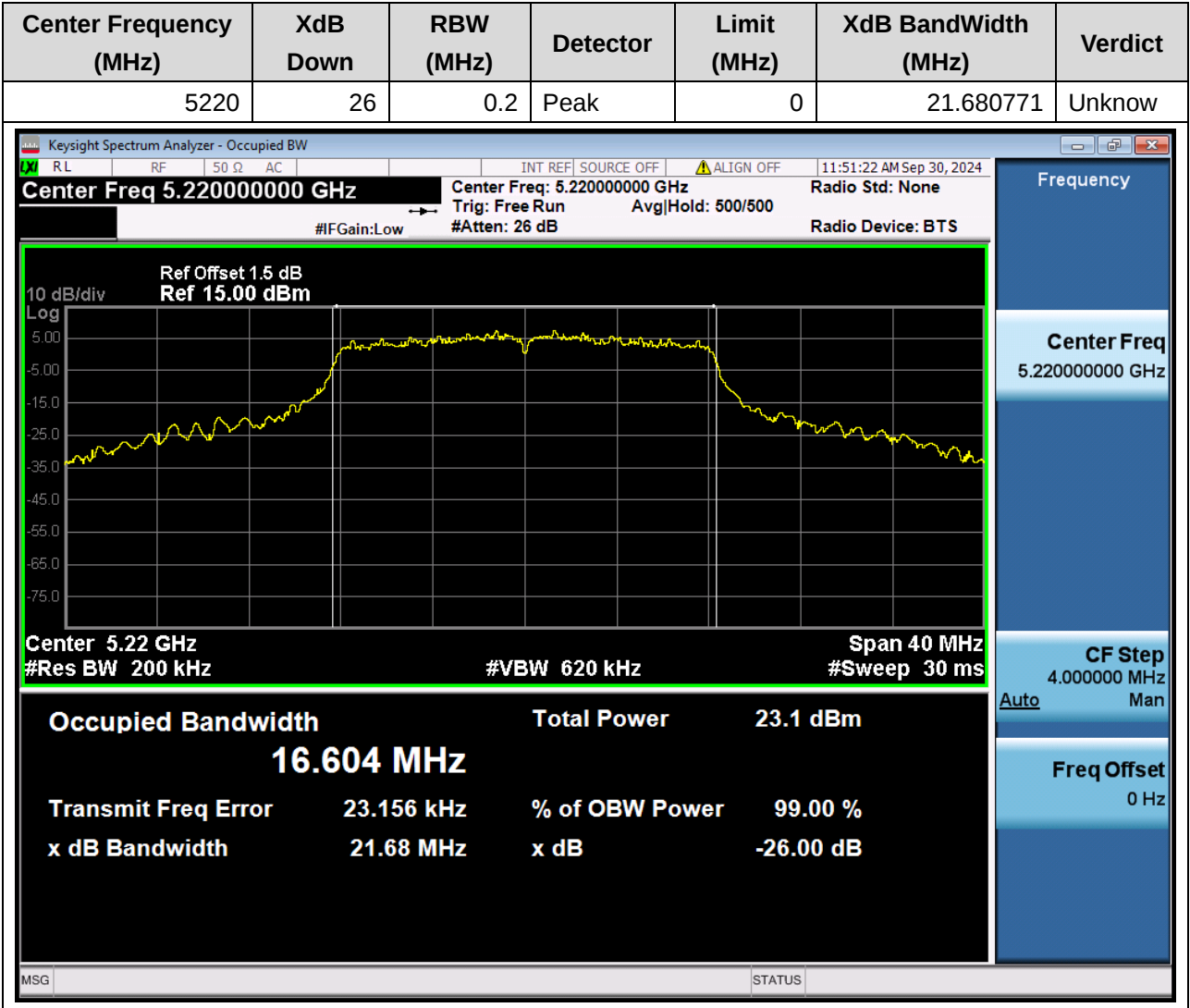
1. 802.11a_20M_Band1_L_ANT1

1.1 A.2-26dB Bandwidth(NTNV)



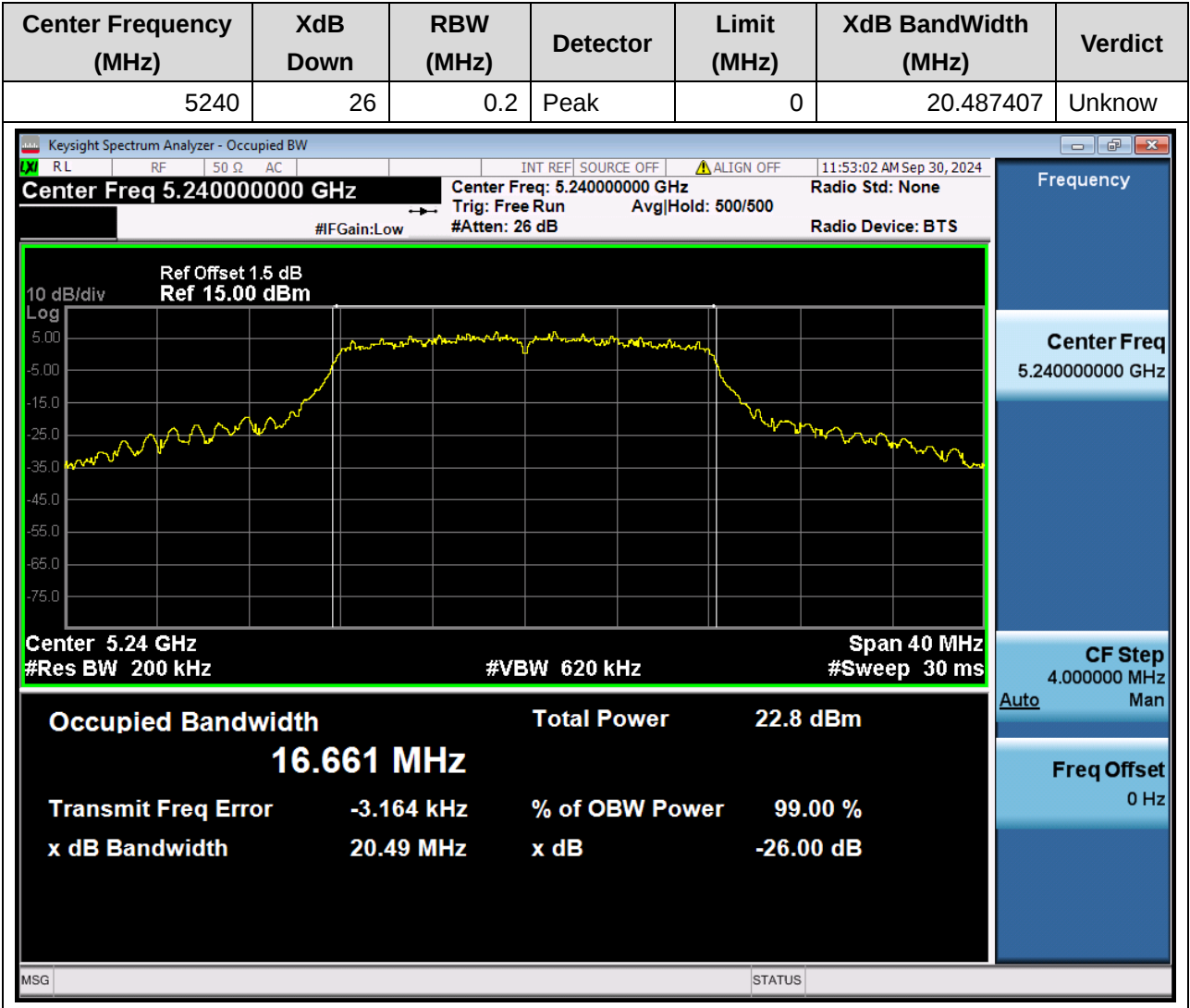
2. 802.11a_20M_Band1_M_ANT1

2.1 A.2-26dB Bandwidth(NTNV)



3. 802.11a_20M_Band1_H_ANT1

3.1 A.2-26dB Bandwidth(NTNV)



5.1 A.2-26dB Bandwidth(NTNV)

Keysight Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC INT REF SOURCE OFF ALIGN OFF 11:56:01 AM Sep 30, 2024

Center Freq 5.22000000 GHz Center Freq: 5.220000000 GHz Radio Std: None
#IFGain: Low Trig: Free Run Avg/Hold: 500/500 Radio Device: BTS
#Atten: 26 dB

Ref Offset 1.5 dB
Ref 15.00 dBm

10 dB/div
Log

Center 5.22 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz #Sweep 30 ms

Occupied Bandwidth **Total Power** **23.0 dBm**
17.651 MHz

Transmit Freq Error	39.962 kHz	% of OBW Power	99.00 %
x dB Bandwidth	21.78 MHz	x dB	-26.00 dB

MSG STATUS

Frequency

Center Freq
5.220000000 GHz

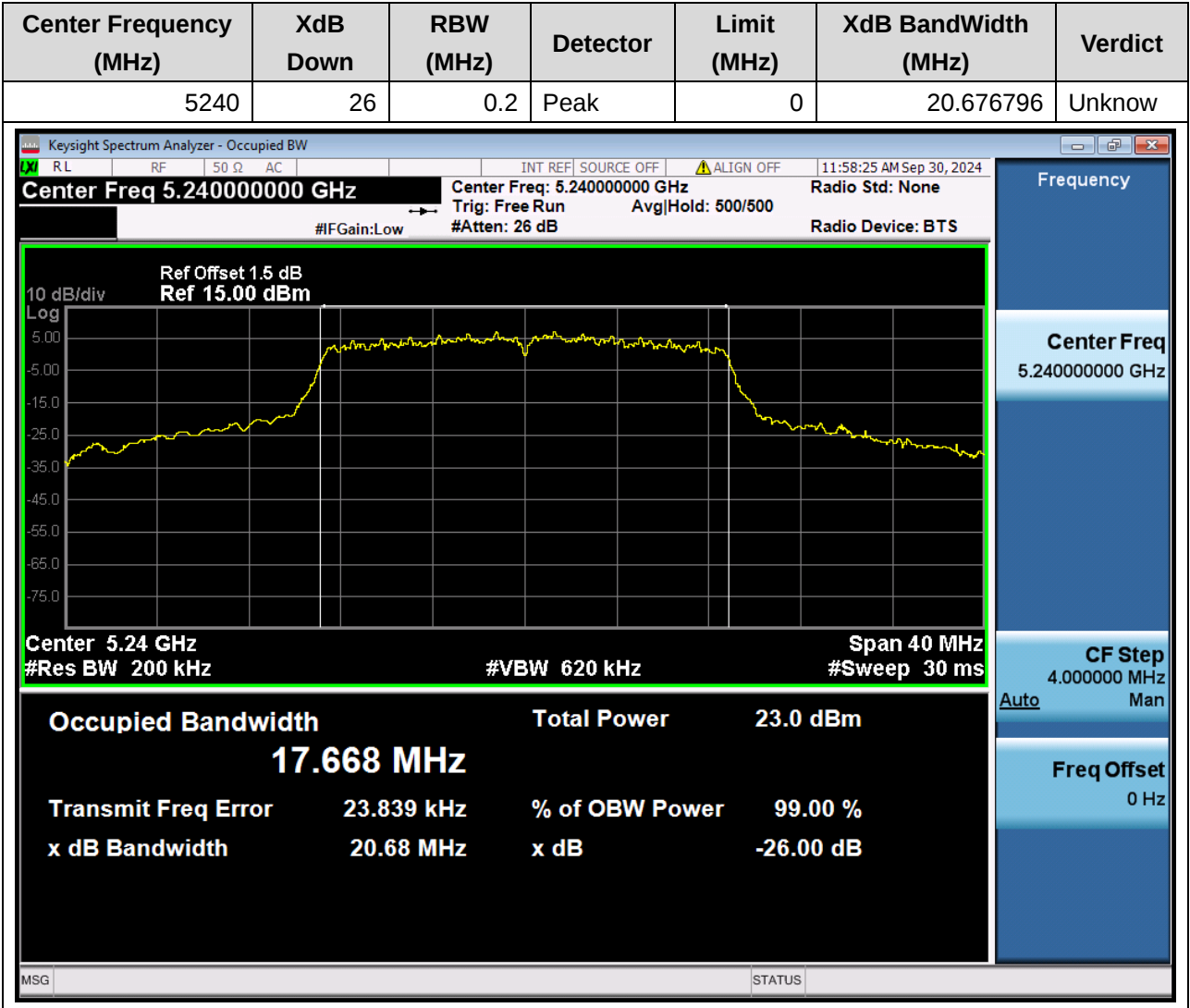
CF Step
4.000000 MHz
Man

Auto

Freq Offset
0 Hz

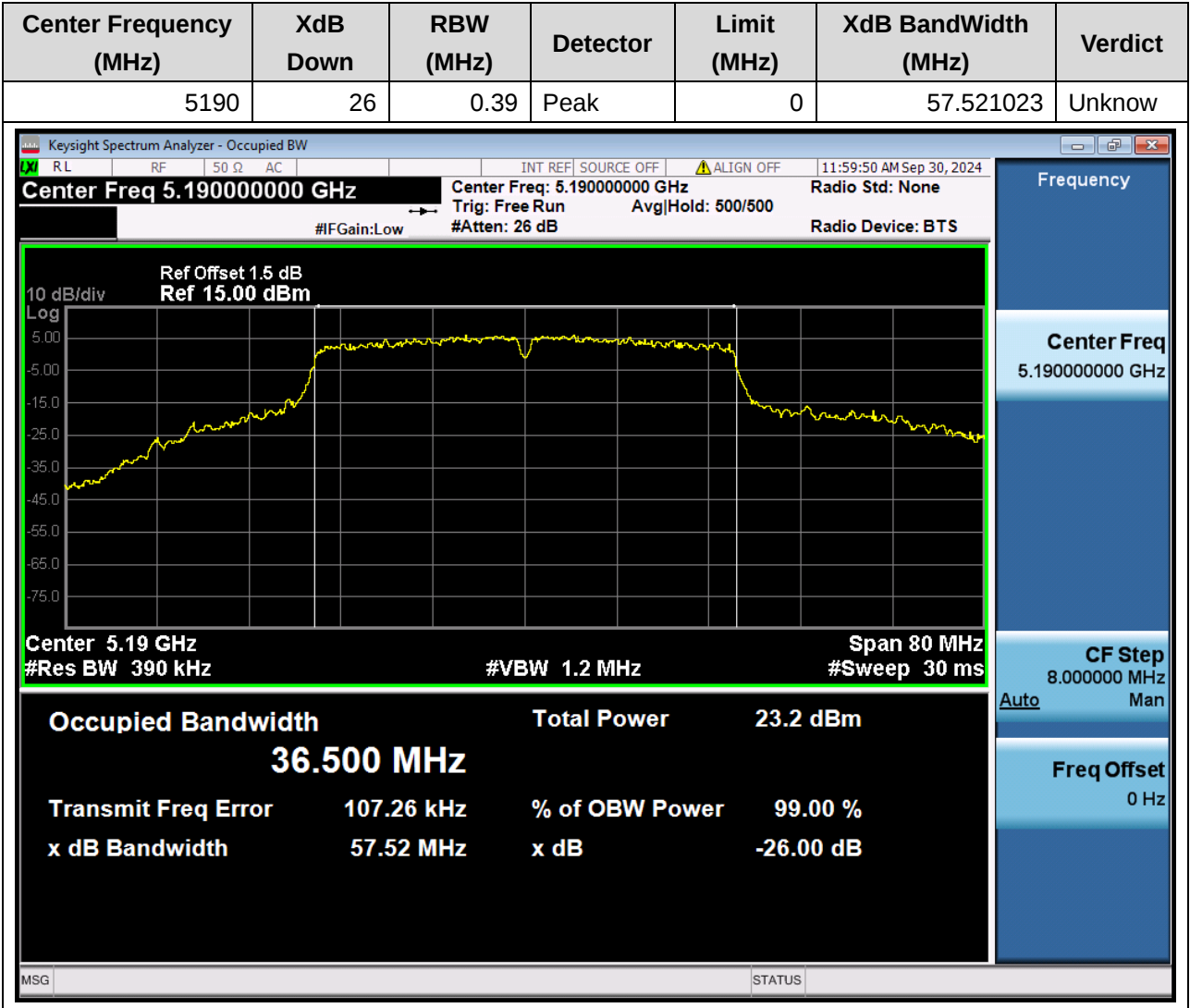
6. 802.11n_20M_Band1_H_ANT1

6.1 A.2-26dB Bandwidth(NTNV)



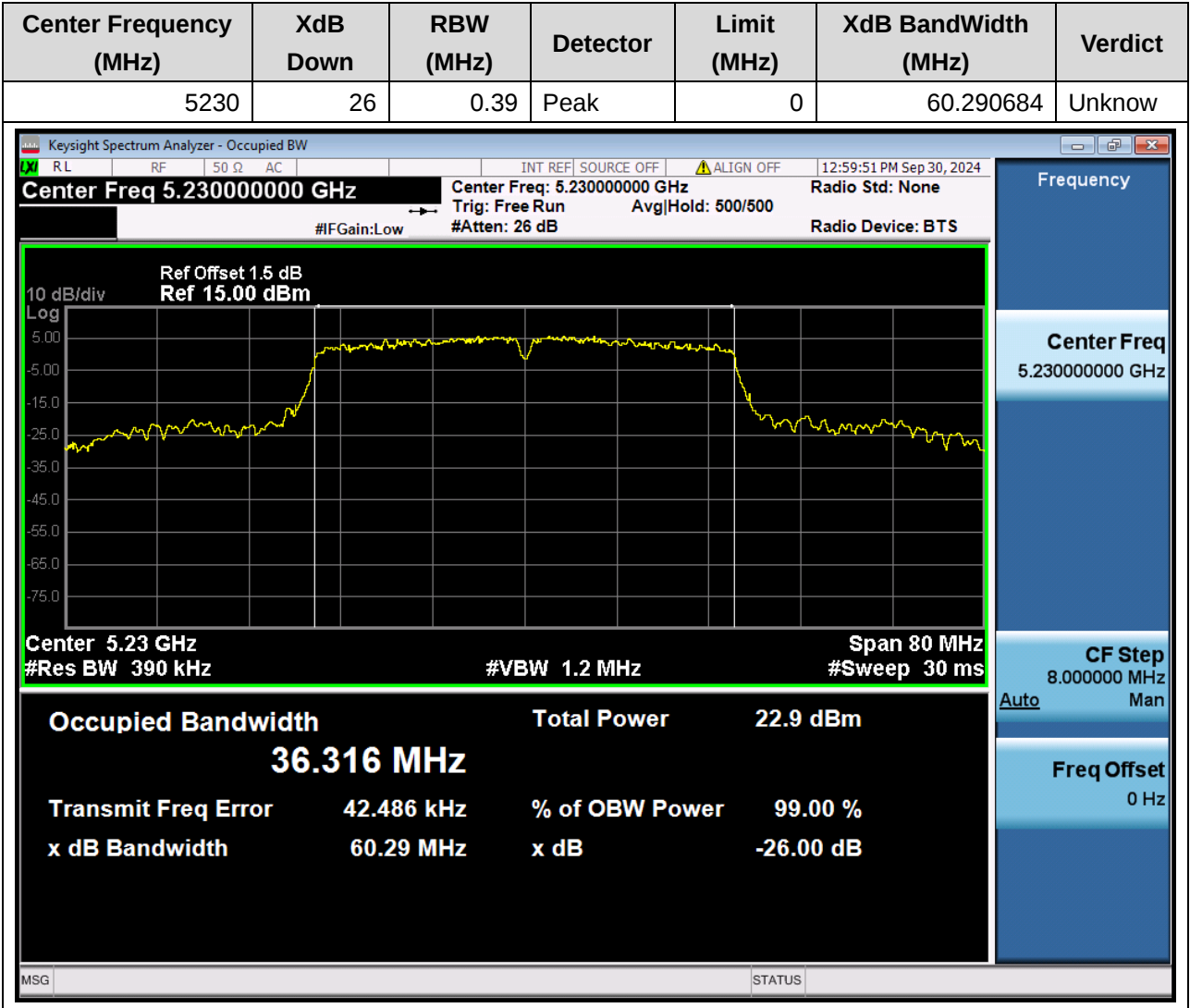
7. 802.11n_40M_Band1_L_ANT1

7.1 A.2-26dB Bandwidth(NTNV)



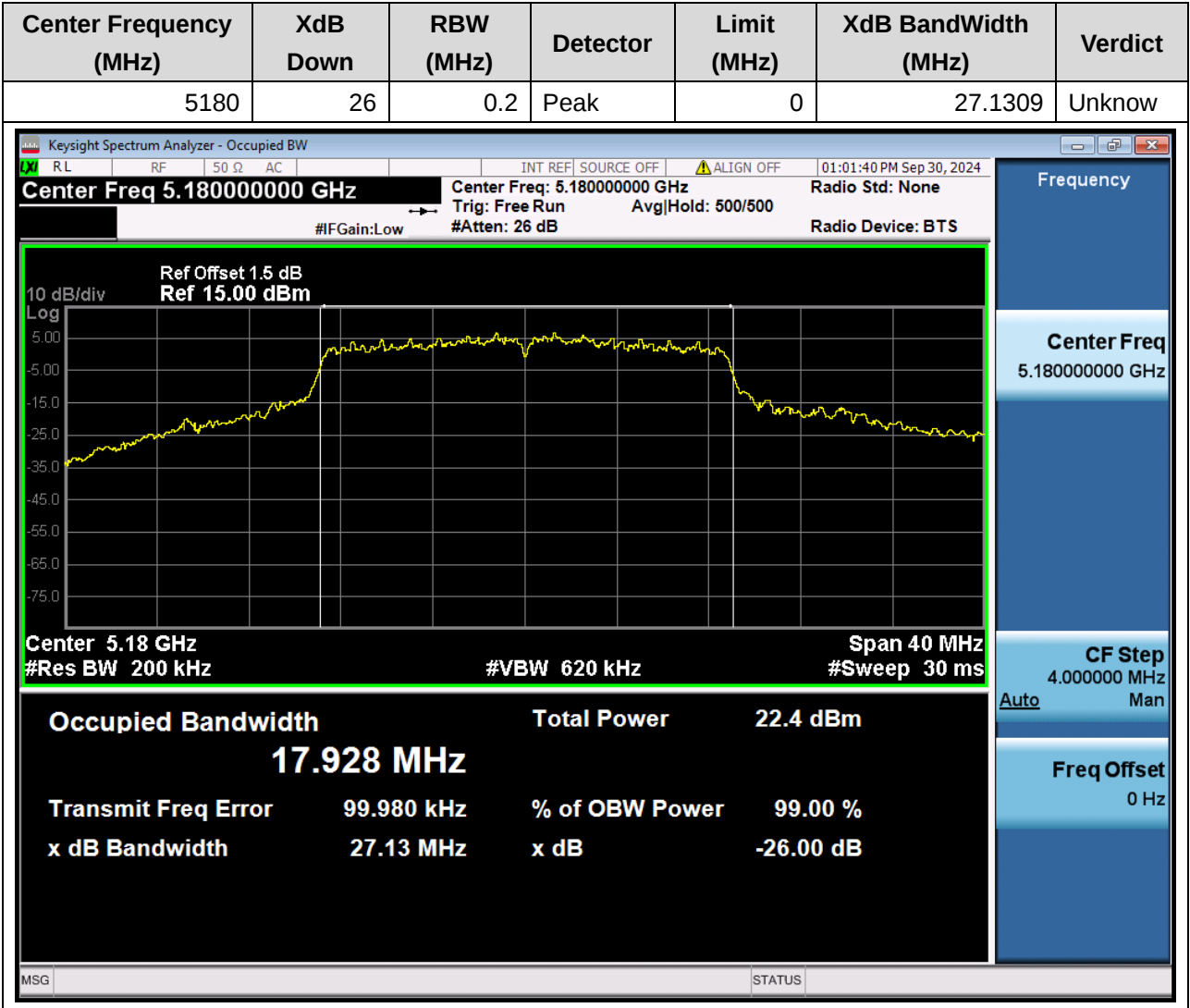
8. 802.11n_40M_Band1_H_ANT1

8.1 A.2-26dB Bandwidth(NTNV)



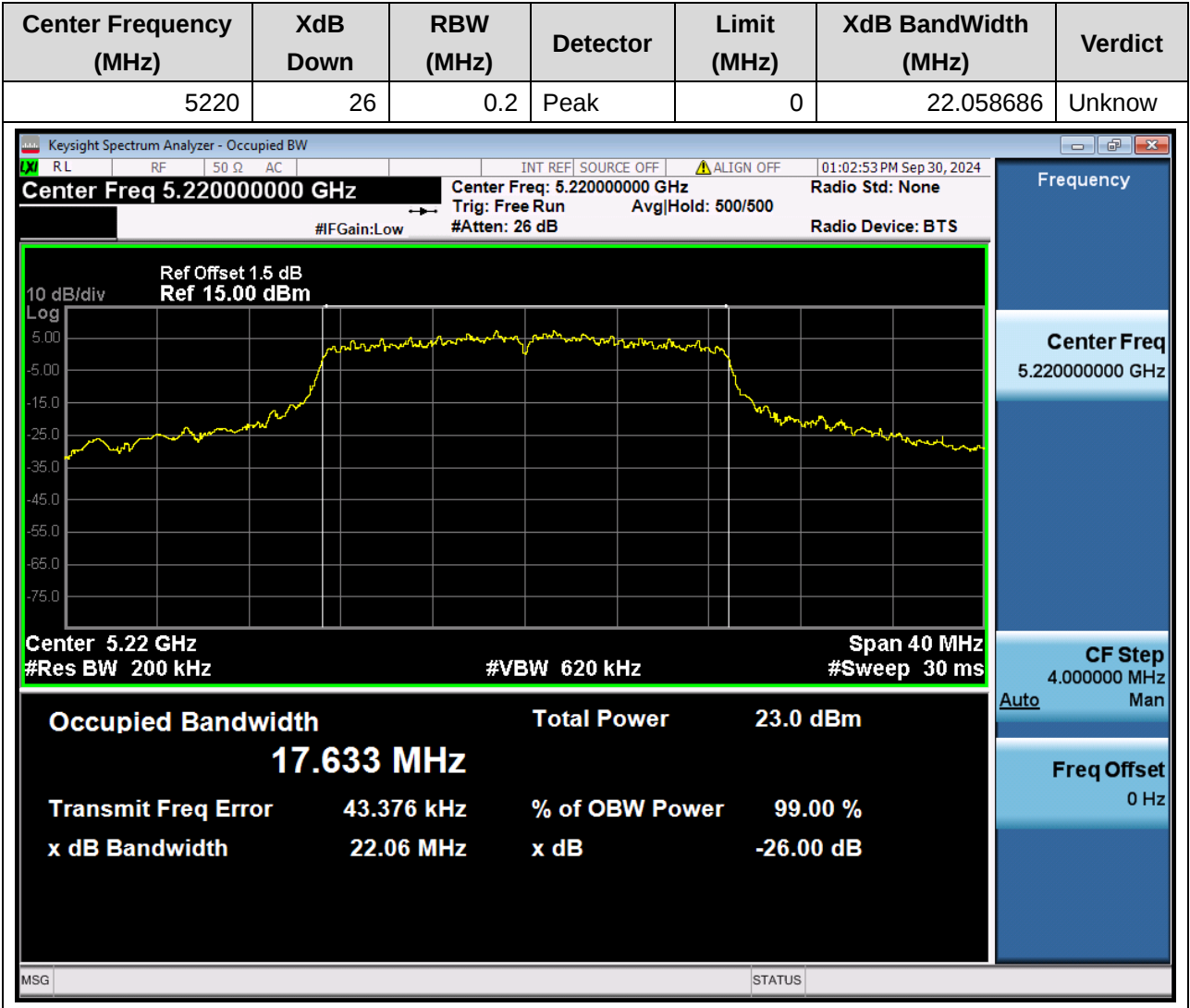
9. 802.11ac_20M_Band1_L_ANT1

9.1 A.2-26dB Bandwidth(NTNV)



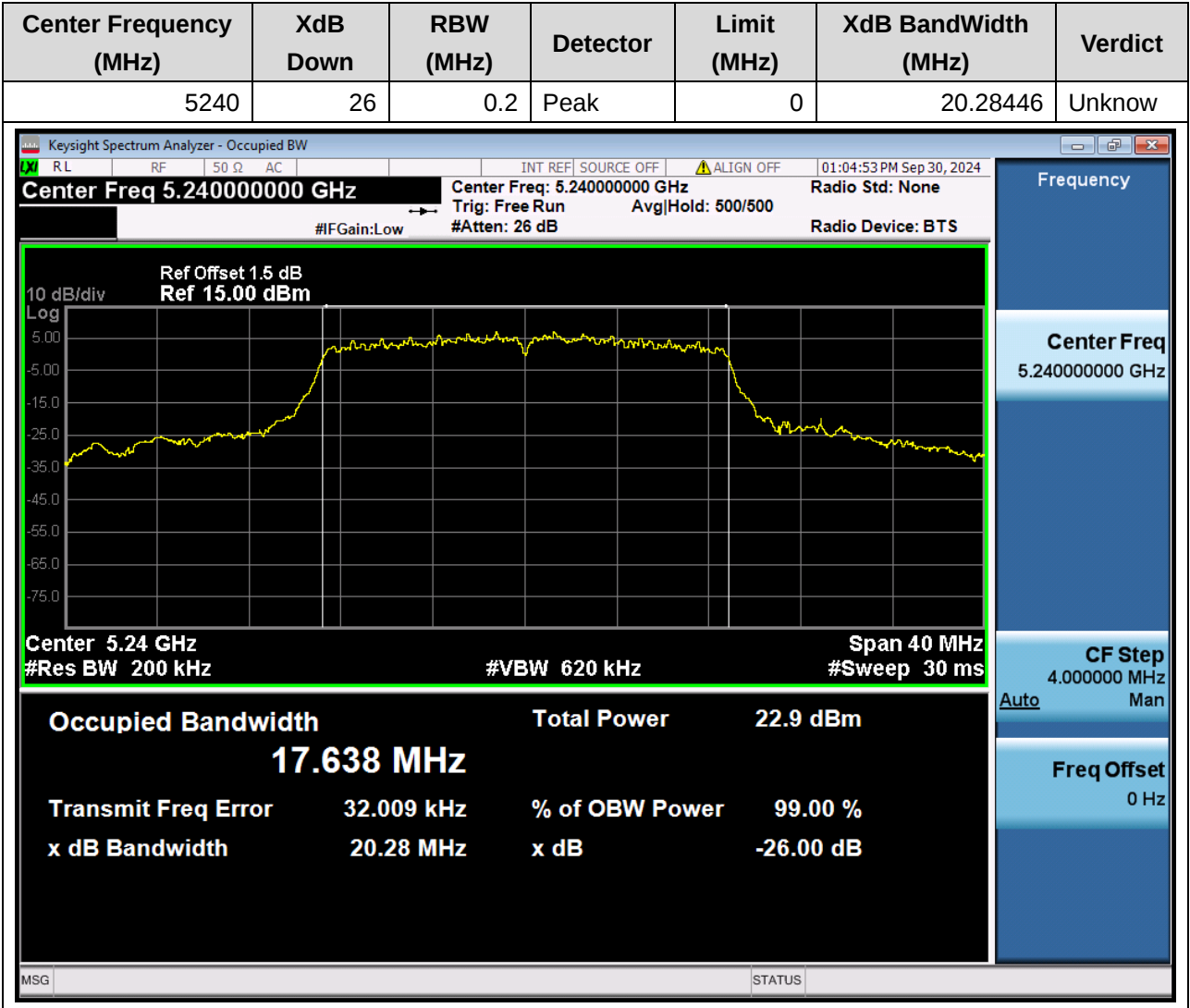
10. 802.11ac_20M_Band1_M_ANT1

10.1 A.2-26dB Bandwidth(NTNV)



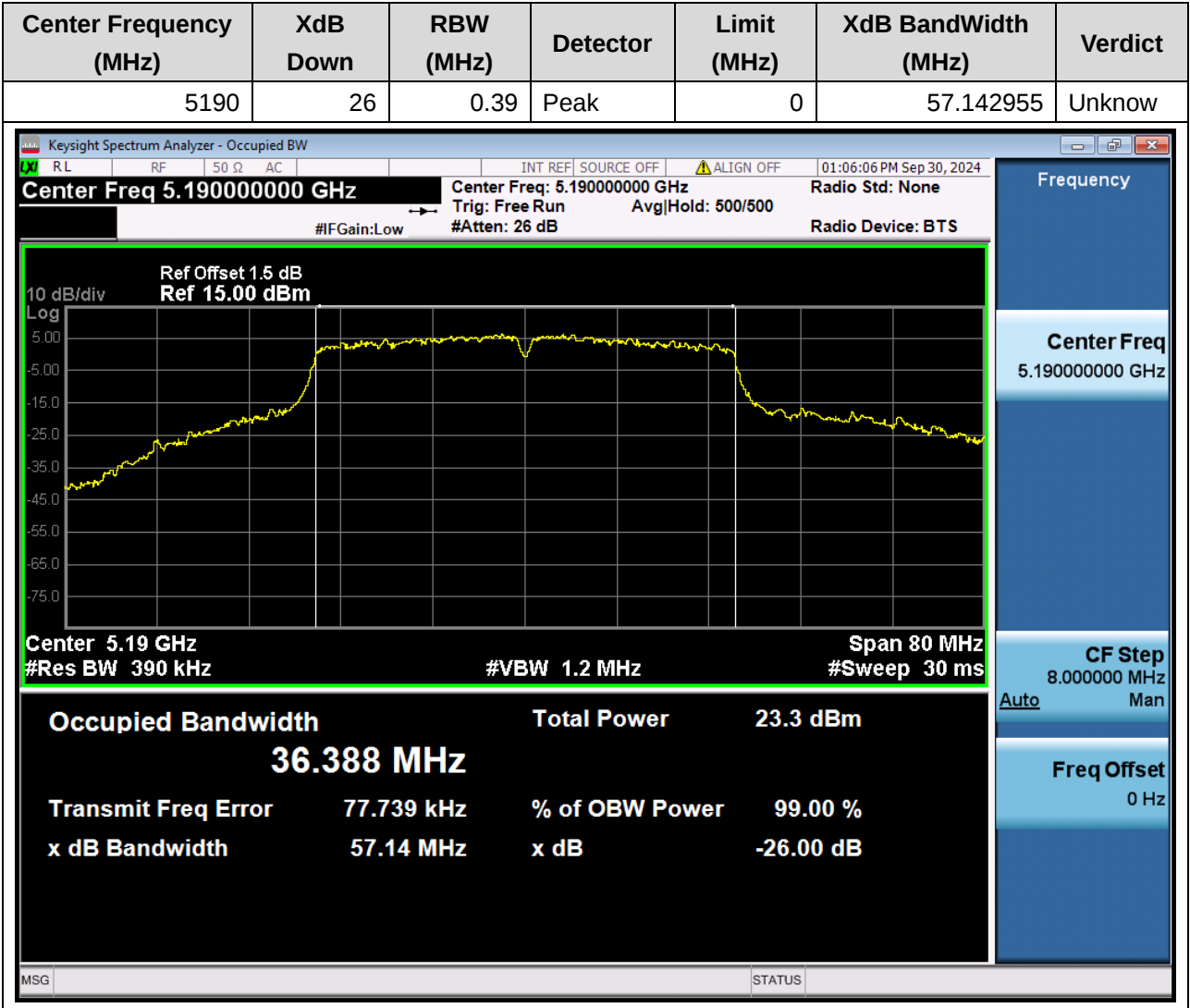
11. 802.11ac_20M_Band1_H_ANT1

11.1 A.2-26dB Bandwidth(NTNV)



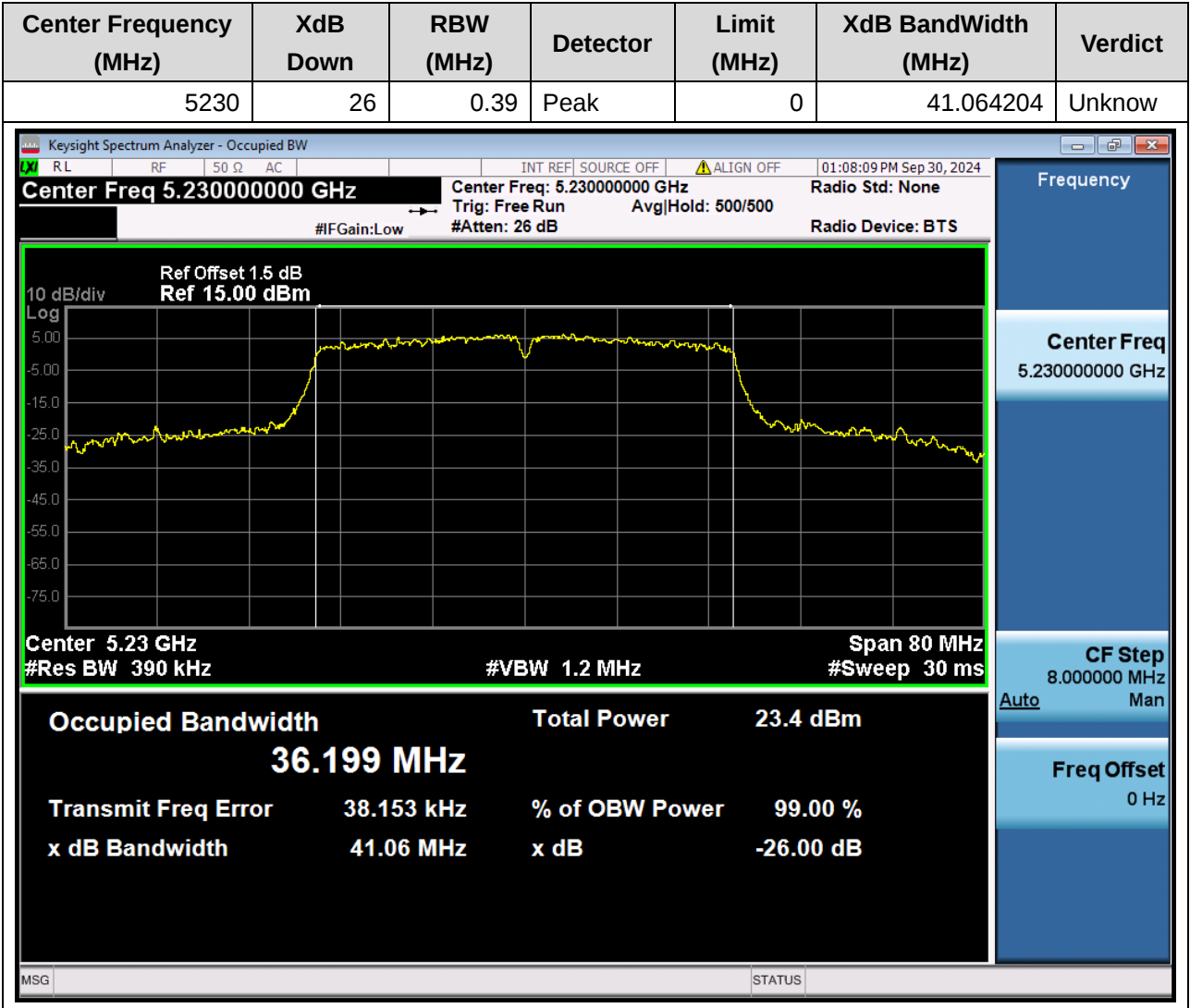
12. 802.11ac_40M_Band1_L_ANT1

12.1 A.2-26dB Bandwidth(NTNV)



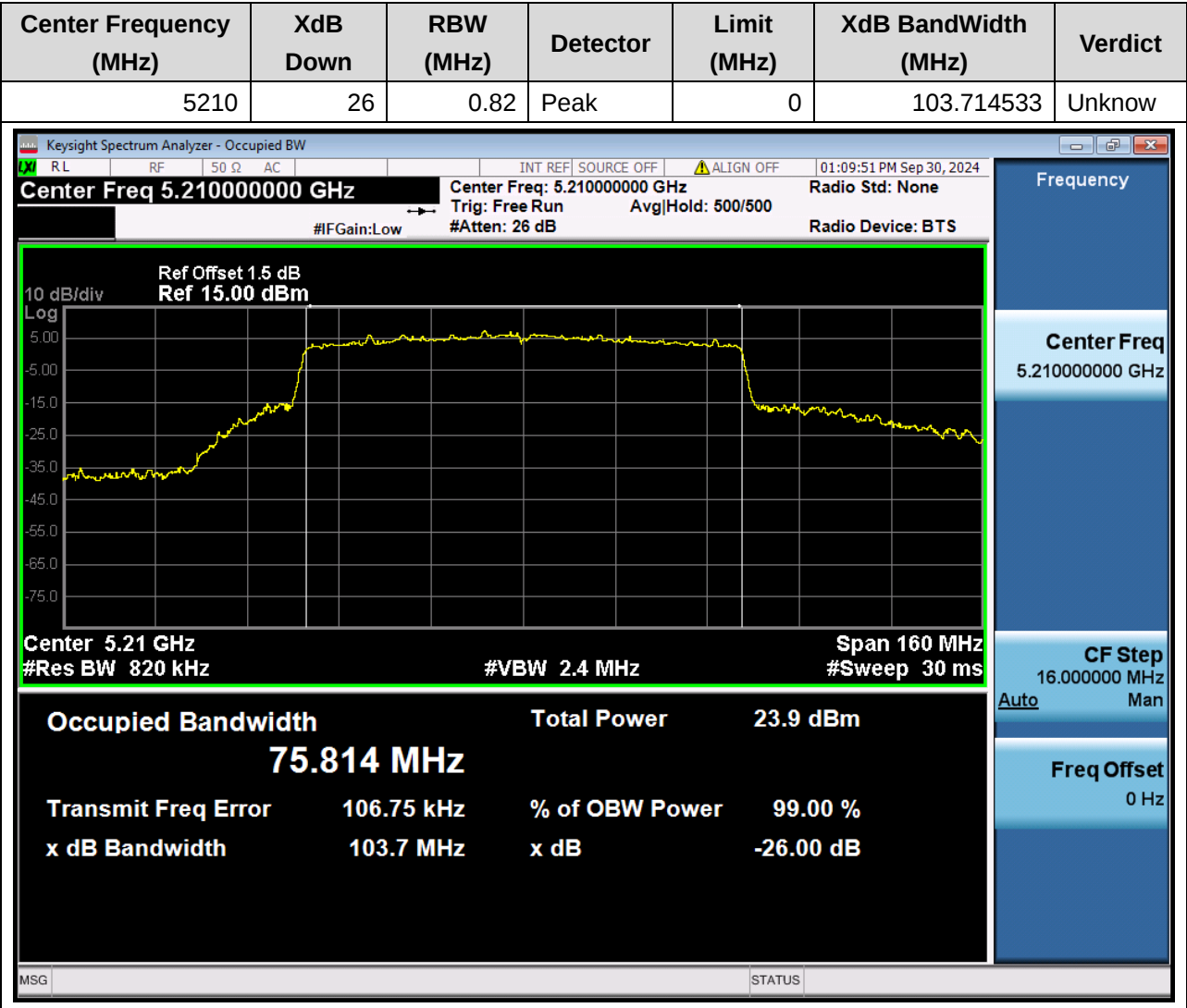
13. 802.11ac_40M_Band1_H_ANT1

13.1 A.2-26dB Bandwidth(NTNV)



14. 802.11ac_80M_Band1_M_ANT1

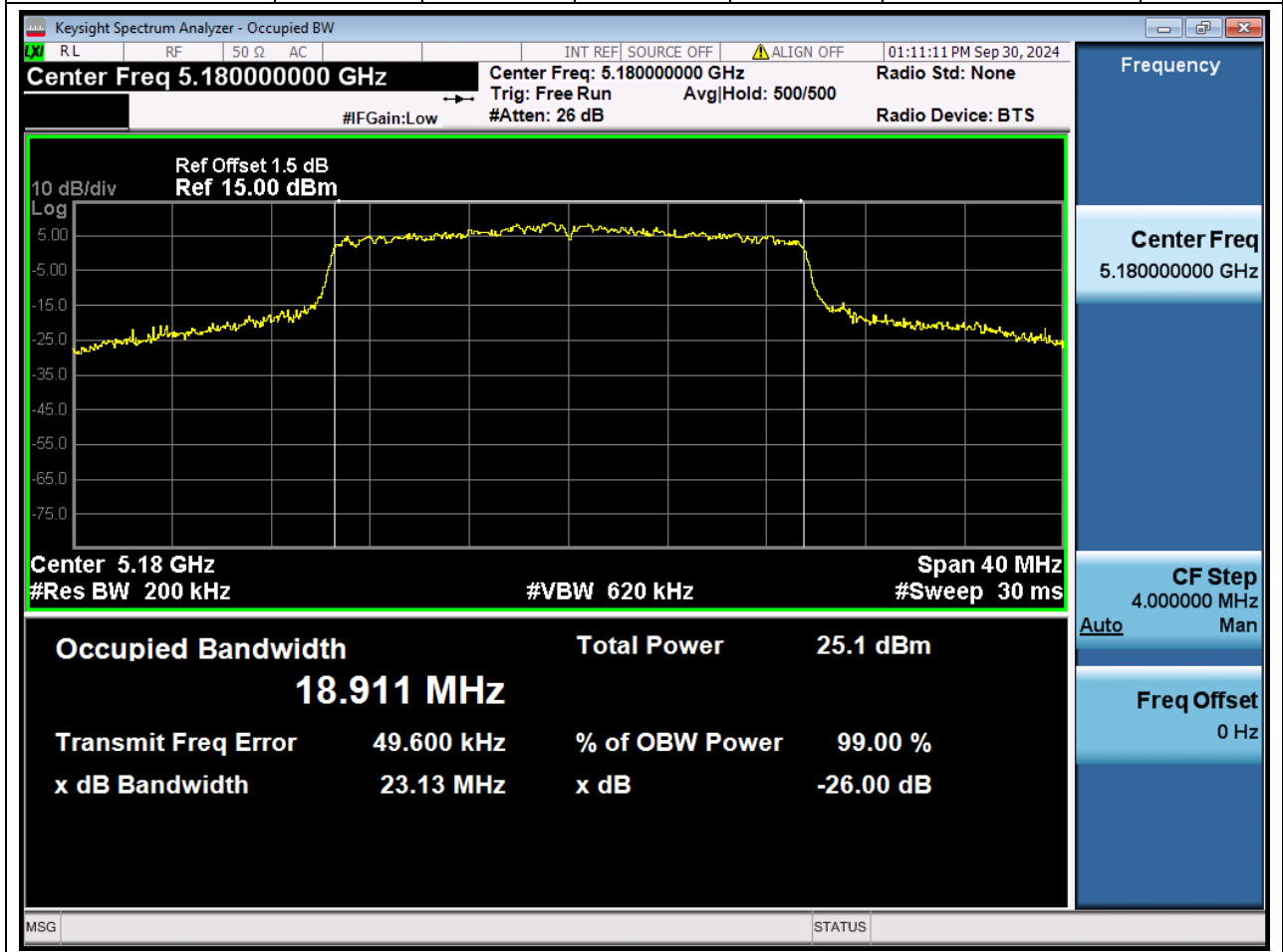
14.1 A.2-26dB Bandwidth(NTNV)



15. 802.11ax_20M_Band1_L_ANT1

15.1 A.2-26dB Bandwidth(NTNV)

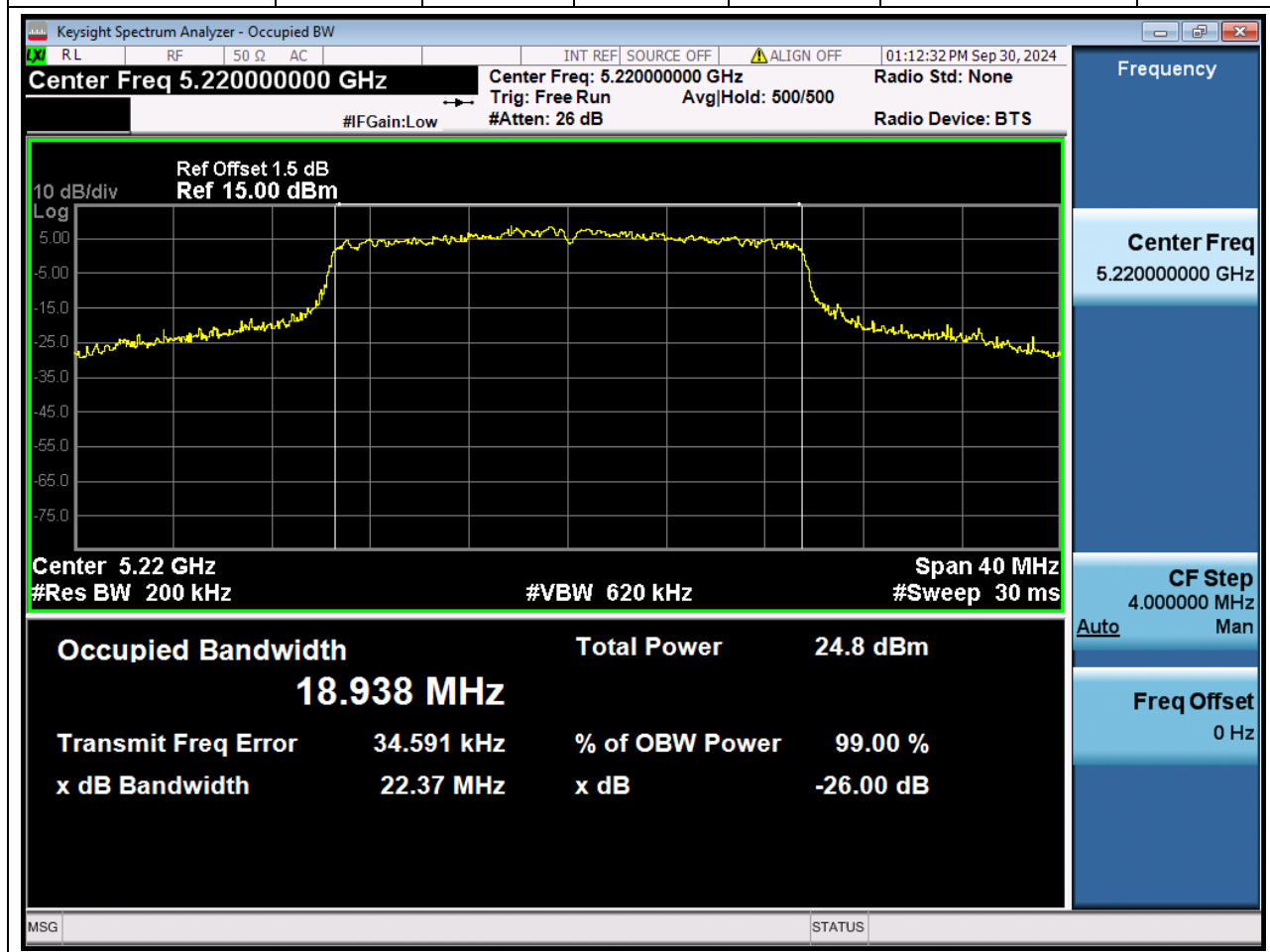
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5180	26	0.2	Peak	0	23.131499	Unknown



16. 802.11ax_20M_Band1_M_ANT1

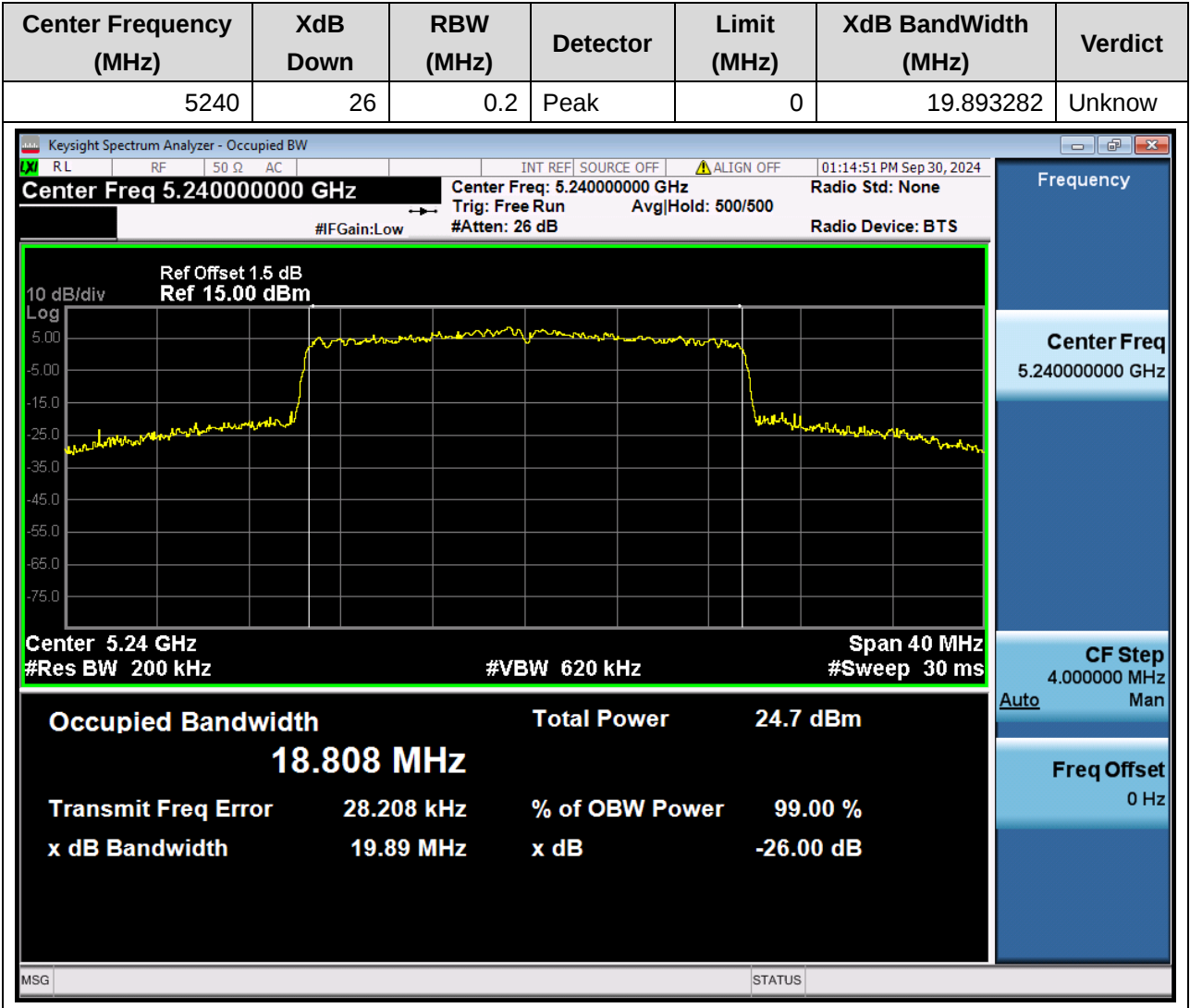
16.1 A.2-26dB Bandwidth(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5220	26	0.2	Peak	0	22.369656	Unknown



17. 802.11ax_20M_Band1_H_ANT1

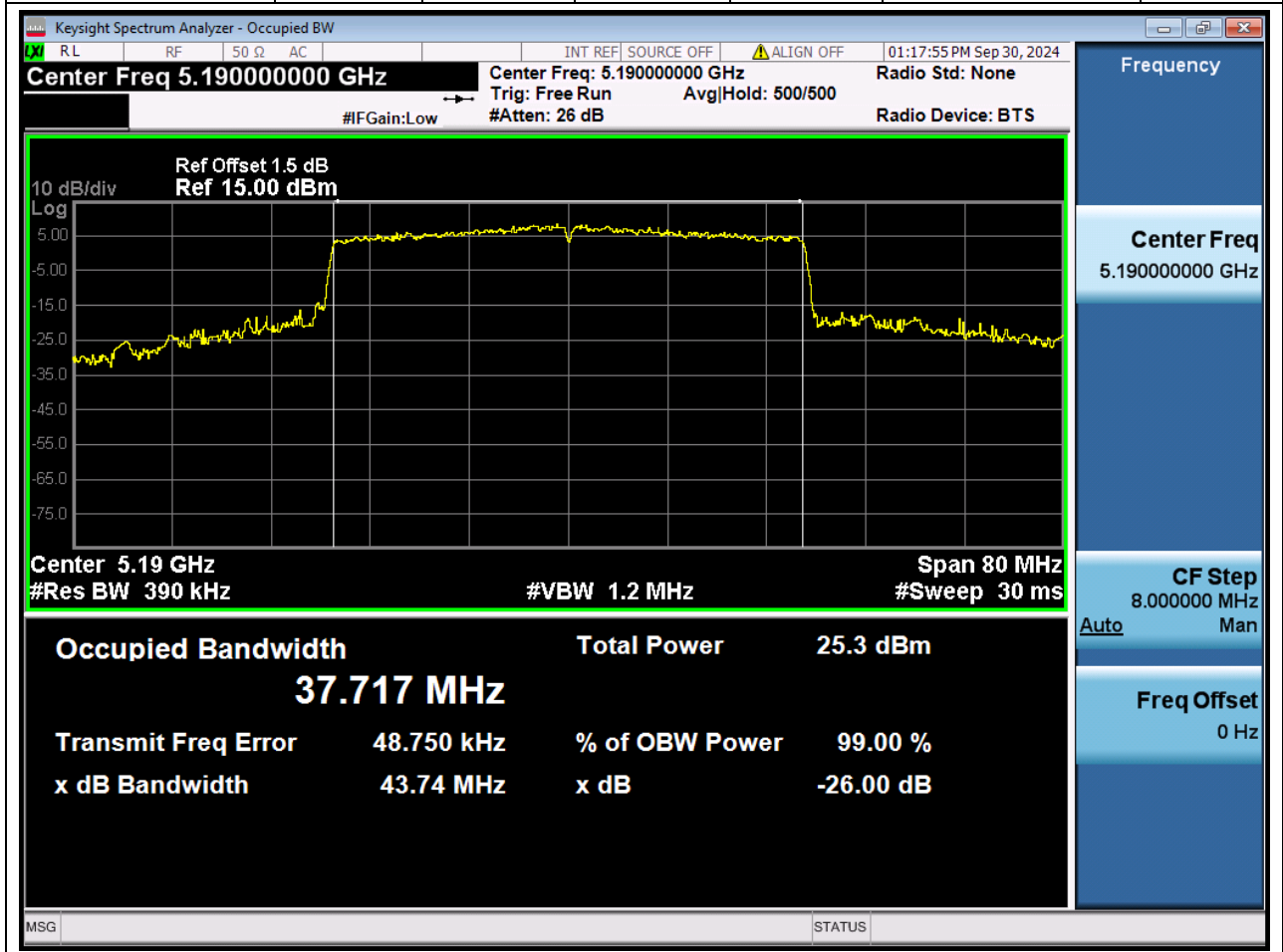
17.1 A.2-26dB Bandwidth(NTNV)



18. 802.11ax_40M_Band1_L_ANT1

18.1 A.2-26dB Bandwidth(NTNV)

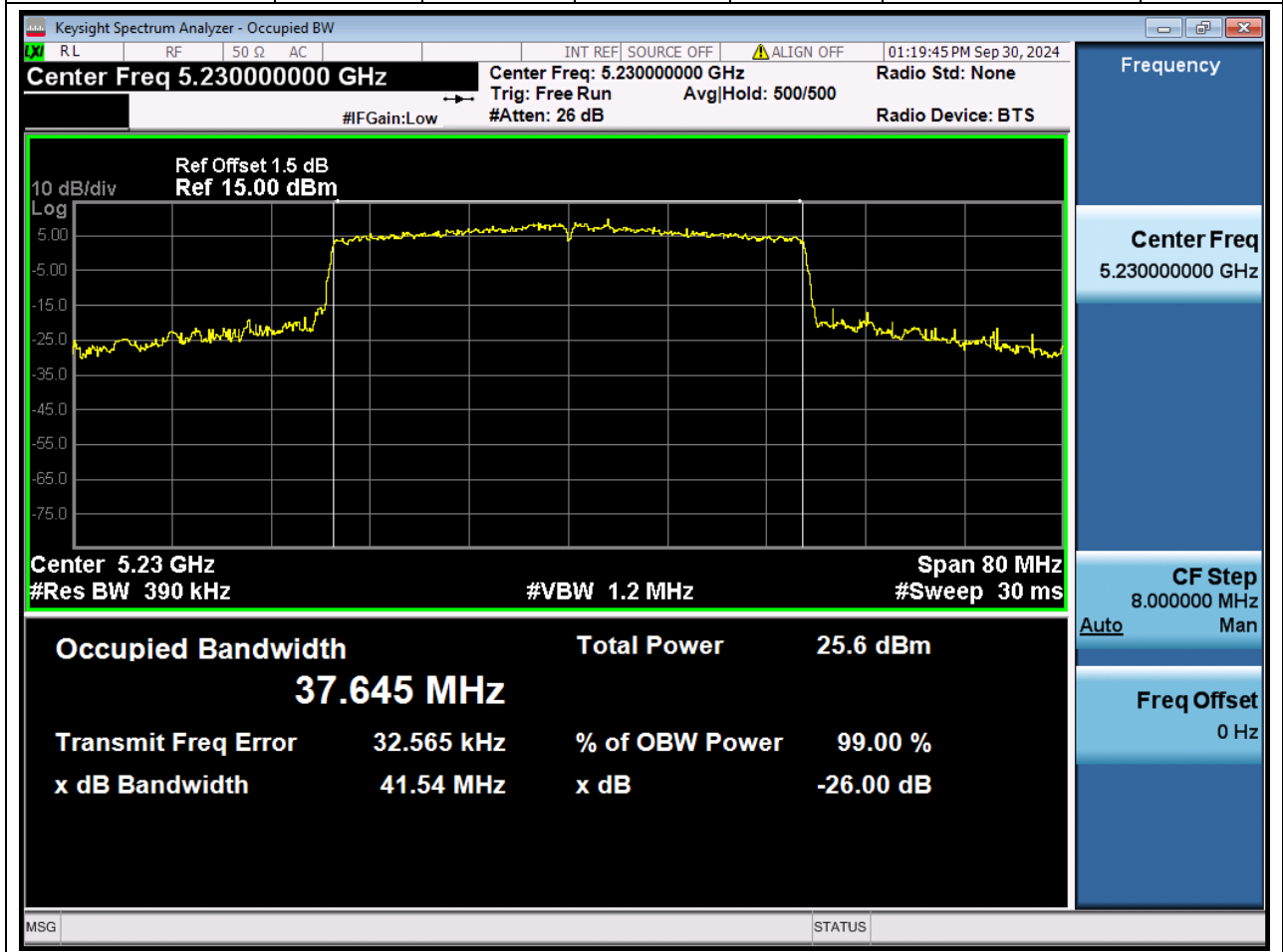
Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5190	26	0.39	Peak	0	43.736532	Unknown



19. 802.11ax_40M_Band1_H_ANT1

19.1 A.2-26dB Bandwidth(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5230	26	0.39	Peak	0	41.535106	Unknown



20.1 A.2-26dB Bandwidth(NTNV)

Keysight Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC INT REF SOURCE OFF ALIGN OFF 01:21:08 PM Sep 30, 2024

Center Freq 5.210000000 GHz Center Freq: 5.210000000 GHz Radio Std: None
Trig: Free Run Avg/Hold: 500/500
#IFGain: Low #Atten: 26 dB Radio Device: BTS

Ref Offset 1.5 dB
Ref 15.00 dBm

10 dB/div
Log

Center 5.21 GHz Span 160 MHz
#Res BW 820 kHz #VBW 2.4 MHz #Sweep 30 ms

Occupied Bandwidth 76.708 MHz Total Power 22.6 dBm

Transmit Freq Error -68.206 kHz % of OBW Power 99.00 %
x dB Bandwidth 82.30 MHz x dB -26.00 dB

Frequency

Center Freq
5.210000000 GHz

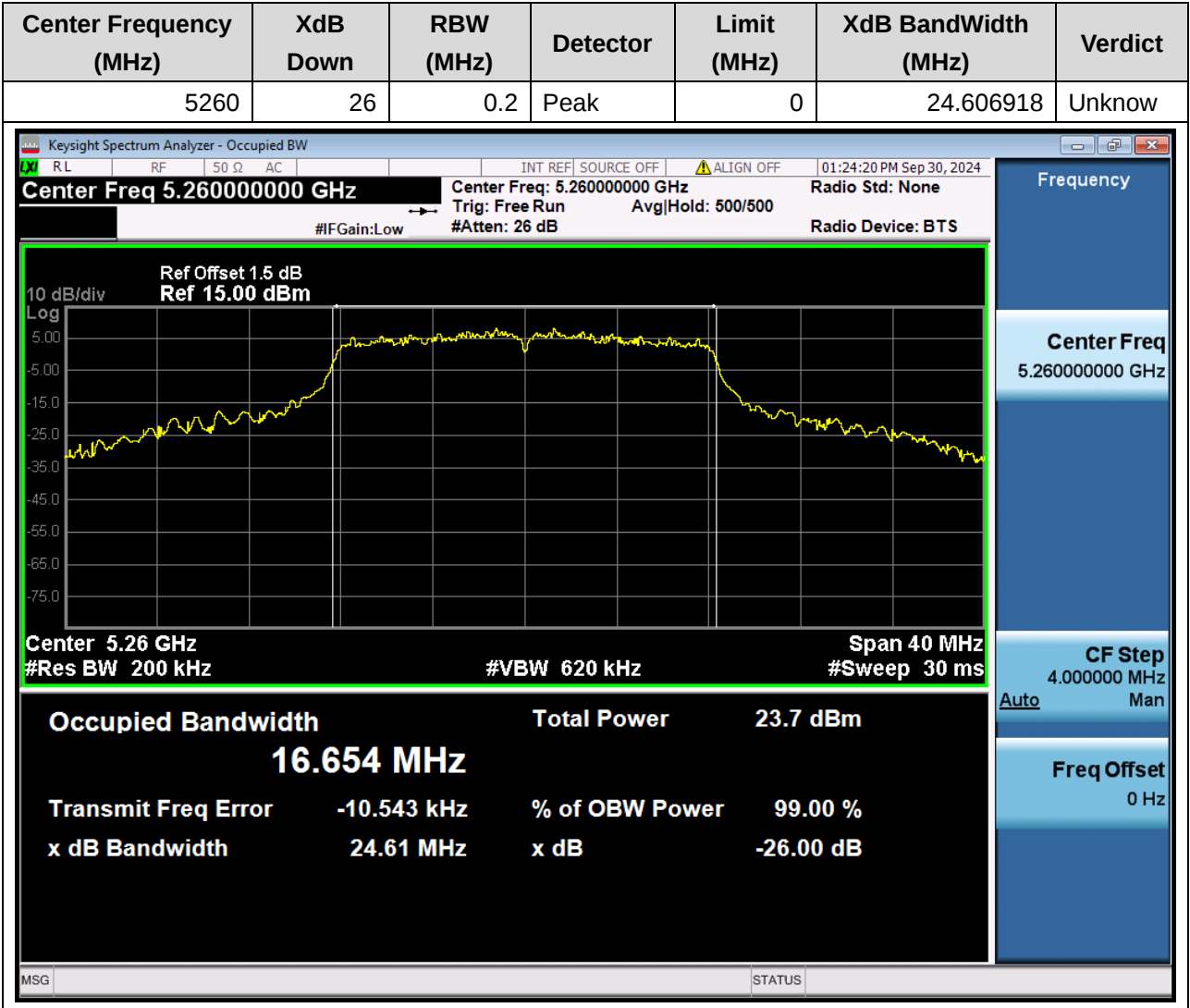
CF Step
16.000000 MHz
Auto Man

Freq Offset
0 Hz

MSG STATUS

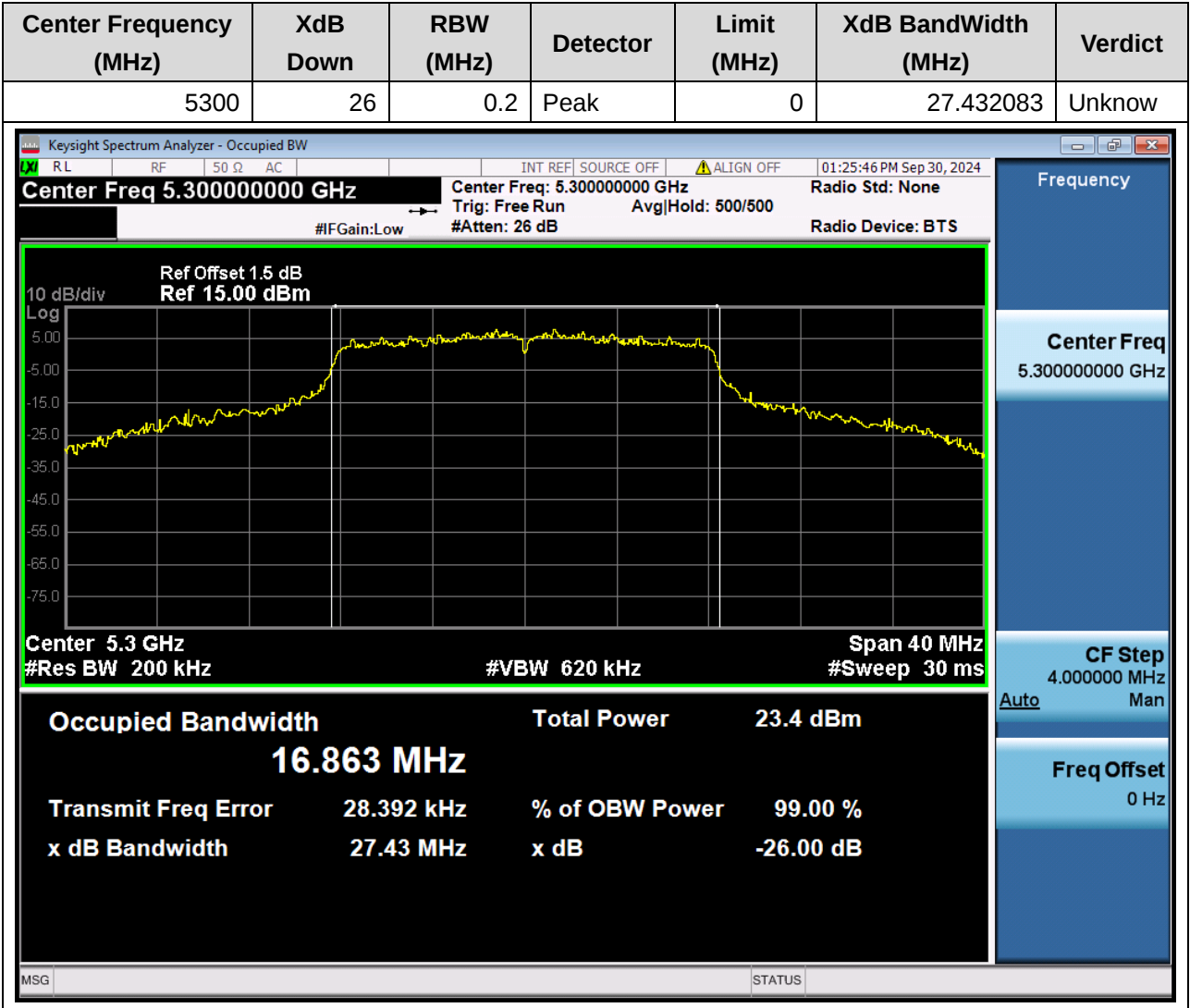
21. 802.11a_20M_Band2_L_ANT1

21.1 A.2-26dB Bandwidth(NTNV)



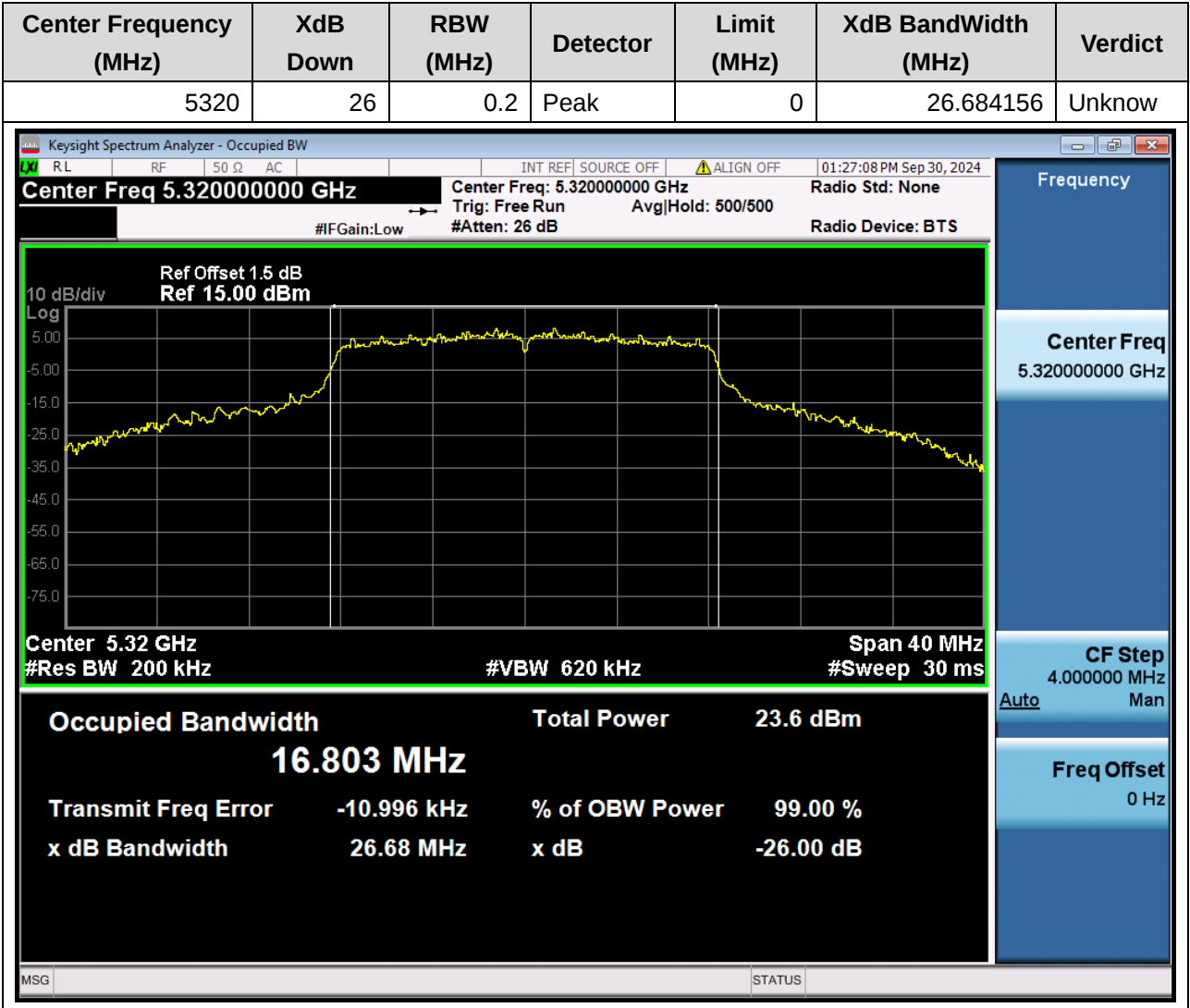
22. 802.11a_20M_Band2_M_ANT1

22.1 A.2-26dB Bandwidth(NTNV)



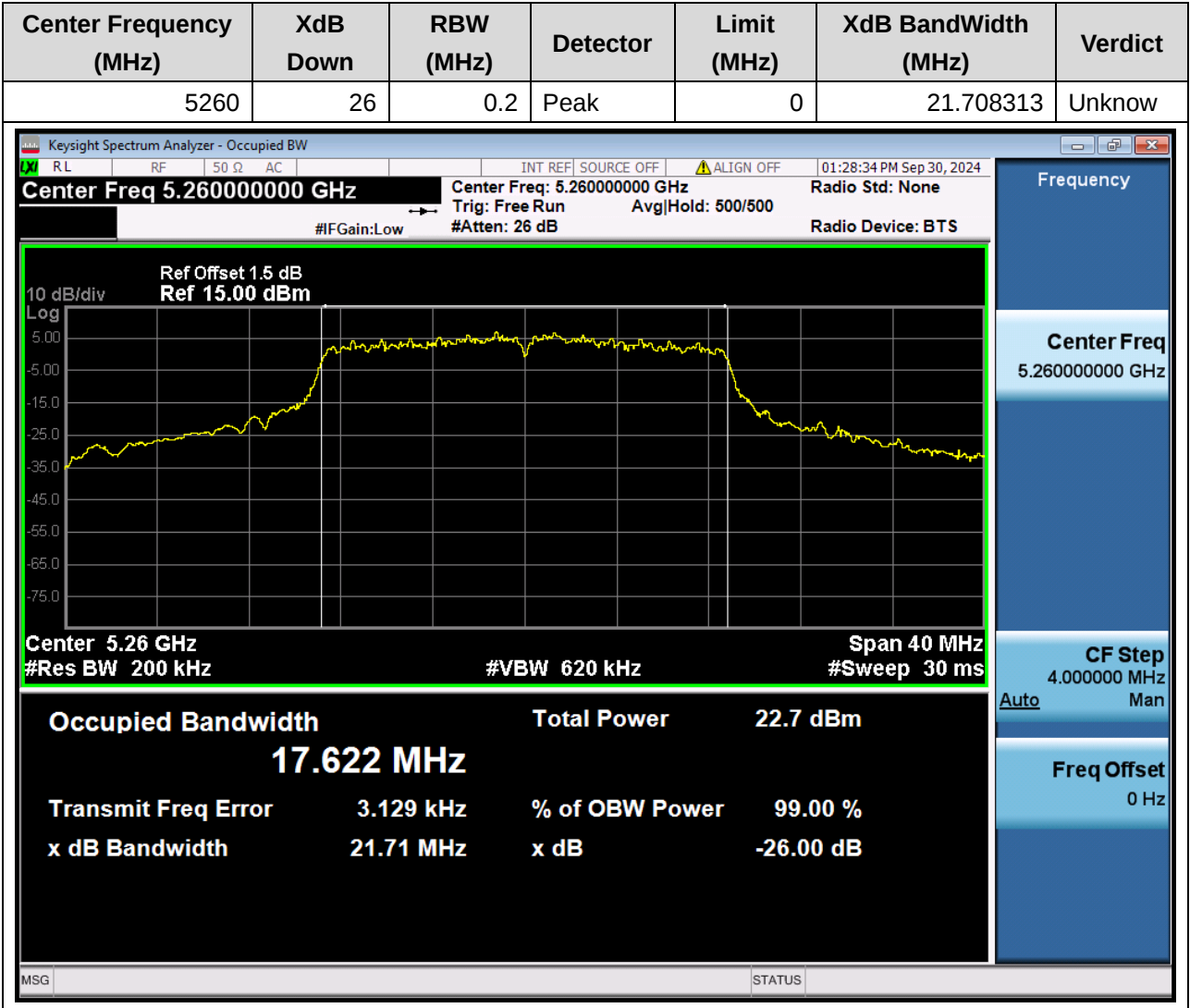
23. 802.11a_20M_Band2_H_ANT1

23.1 A.2-26dB Bandwidth(NTNV)



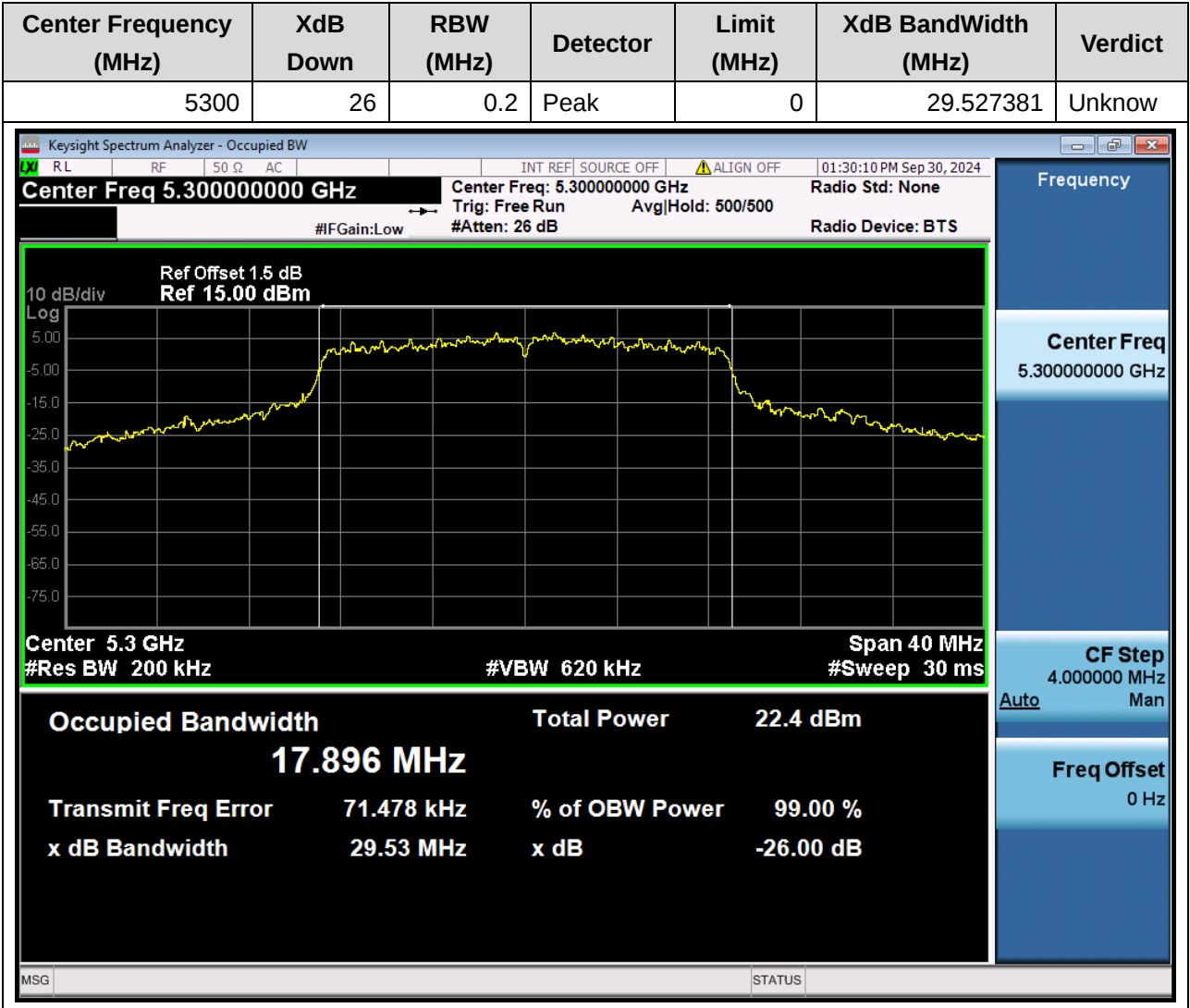
24. 802.11n_20M_Band2_L_ANT1

24.1 A.2-26dB Bandwidth(NTNV)



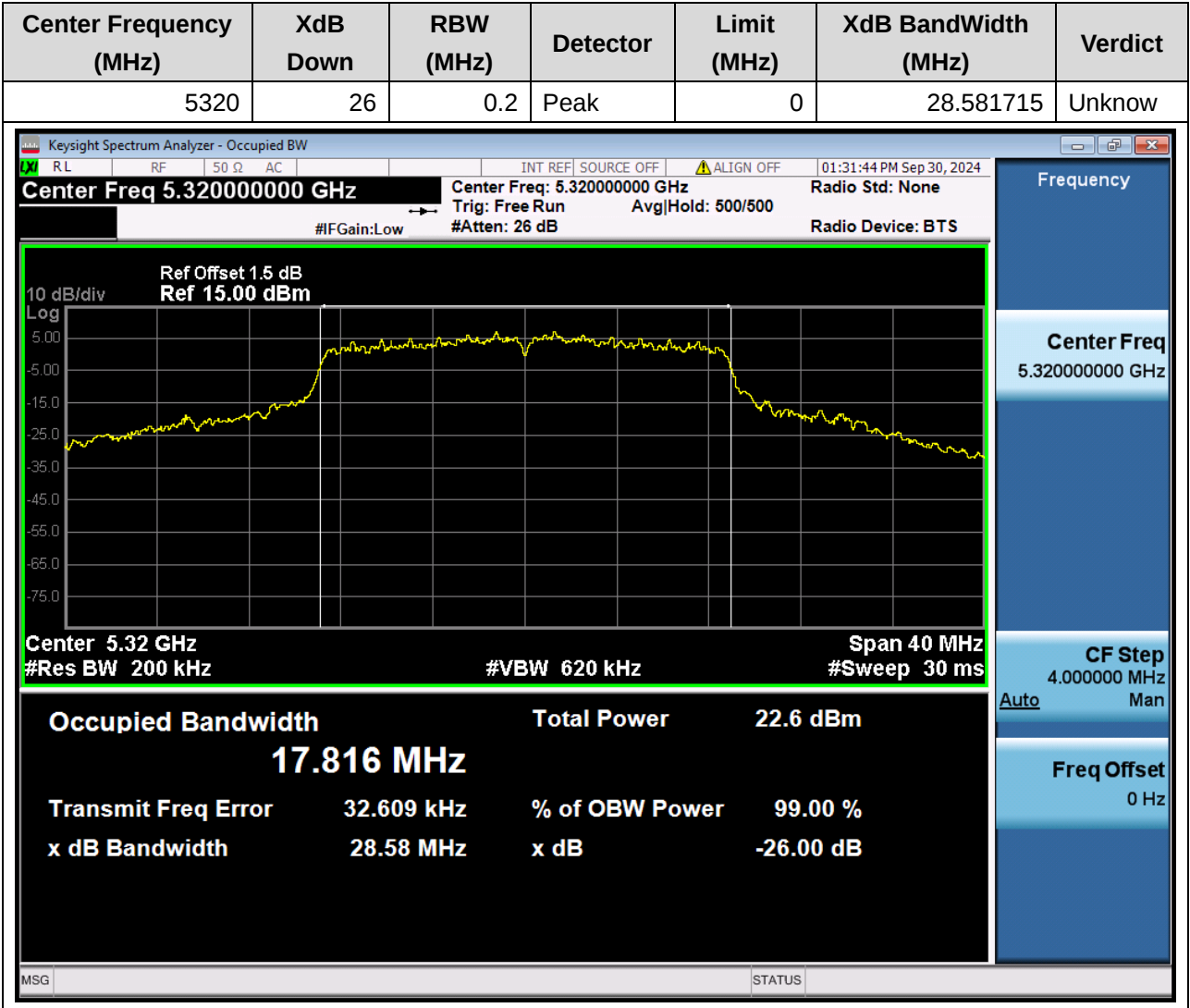
25. 802.11n_20M_Band2_M_ANT1

25.1 A.2-26dB Bandwidth(NTNV)



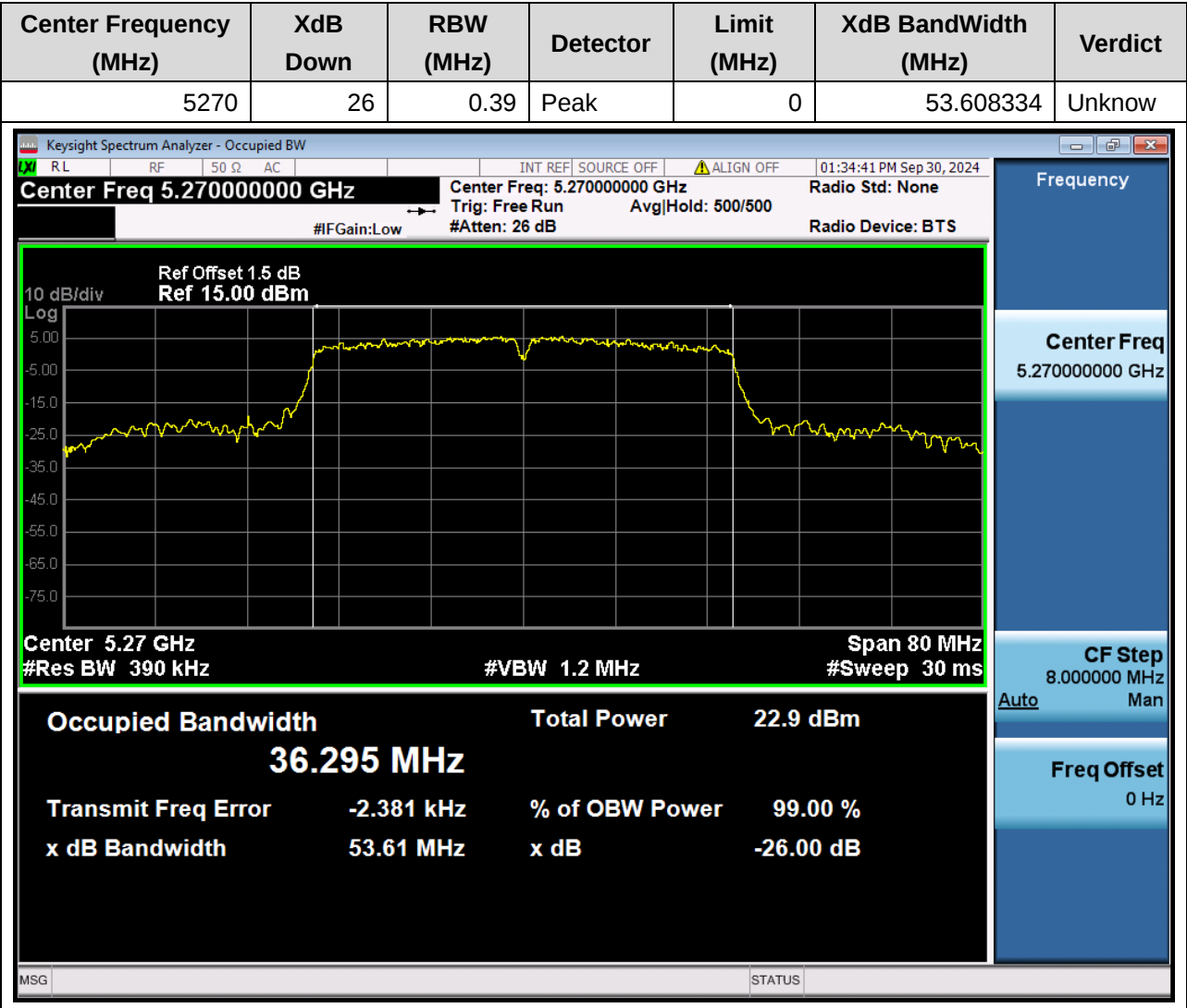
26. 802.11n_20M_Band2_H_ANT1

26.1 A.2-26dB Bandwidth(NTNV)



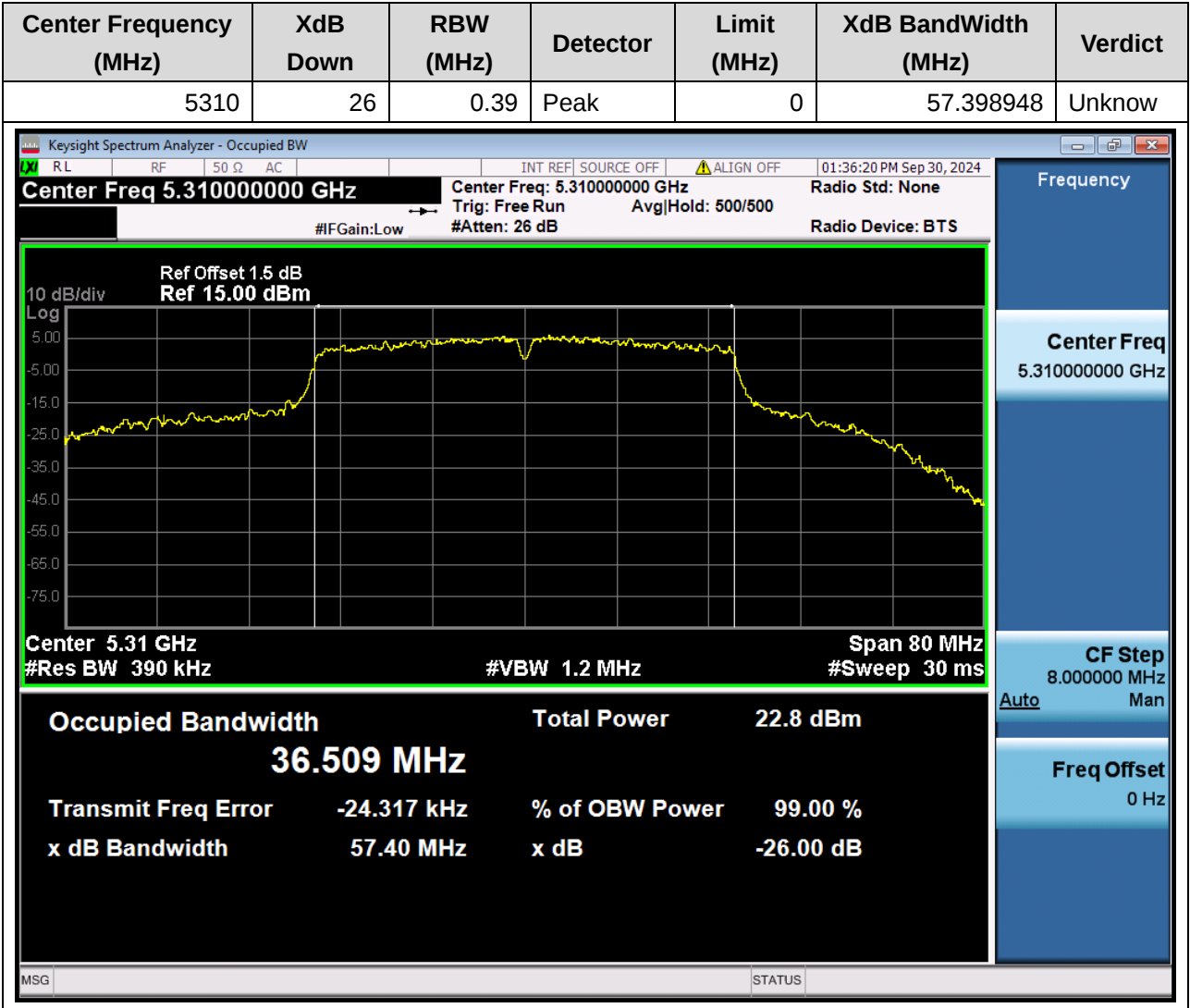
27. 802.11n_40M_Band2_L_ANT1

27.1 A.2-26dB Bandwidth(NTNV)



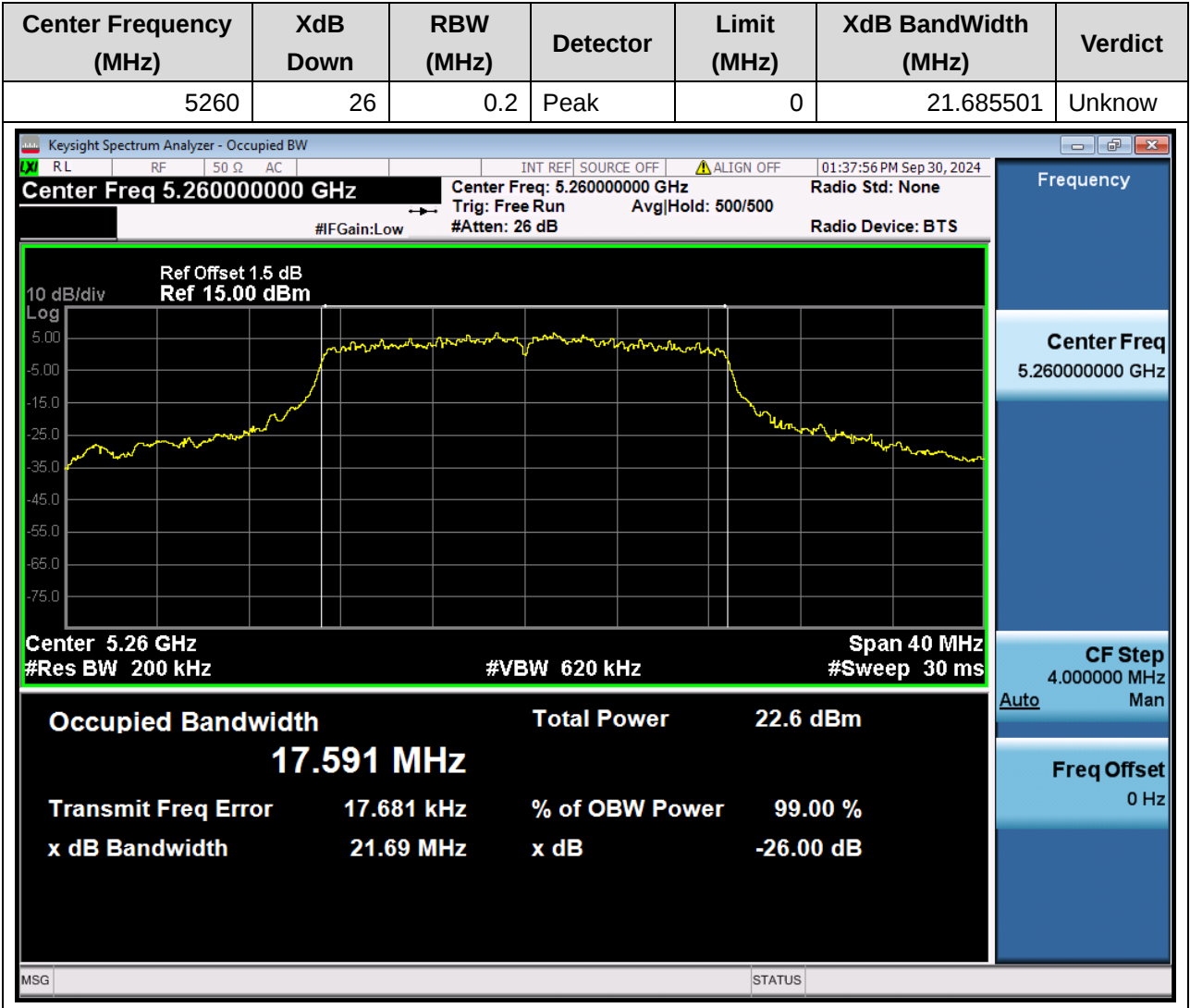
28. 802.11n_40M_Band2_H_ANT1

28.1 A.2-26dB Bandwidth(NTNV)



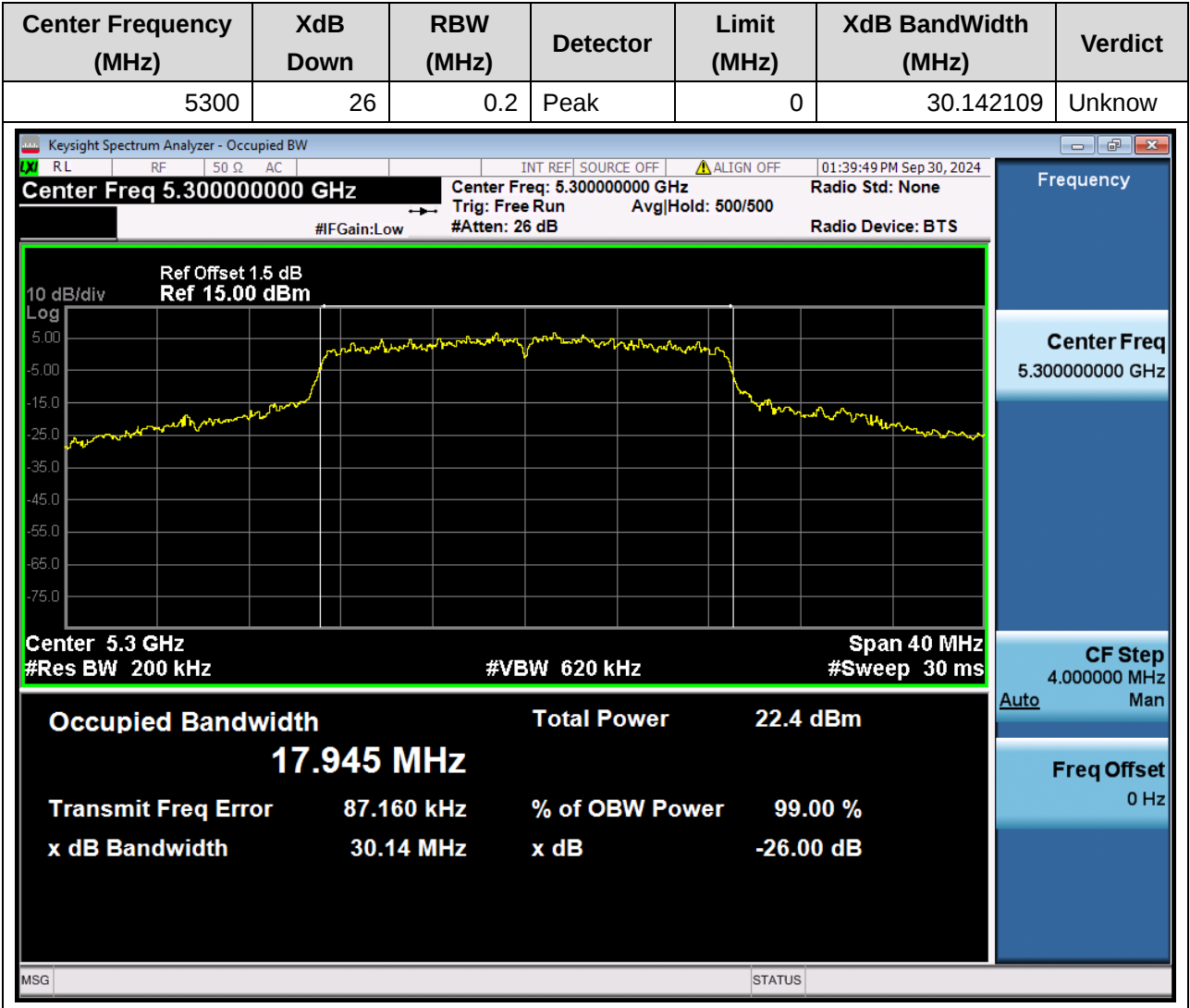
29. 802.11ac_20M_Band2_L_ANT1

29.1 A.2-26dB Bandwidth(NTNV)



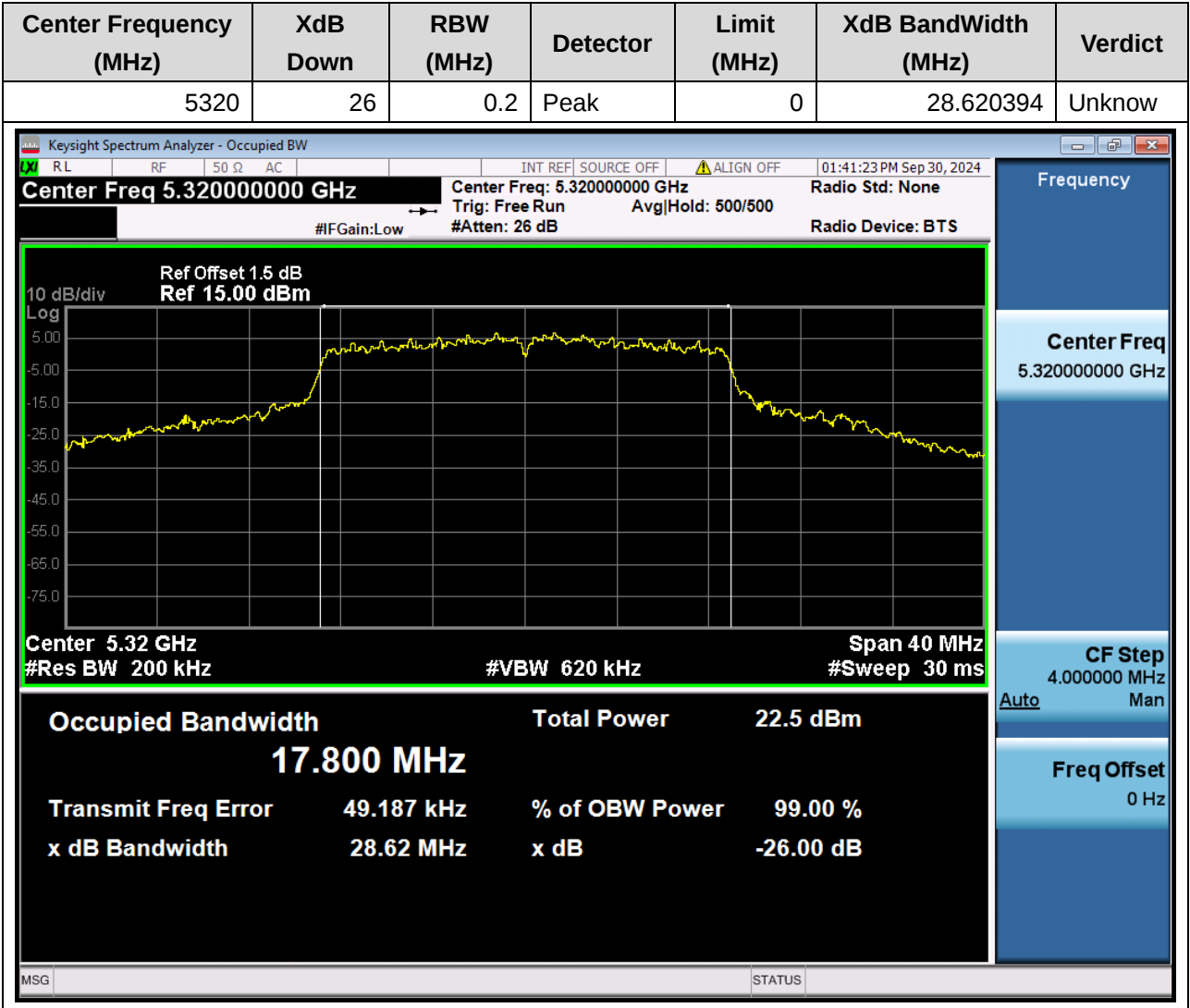
30. 802.11ac_20M_Band2_M_ANT1

30.1 A.2-26dB Bandwidth(NTNV)



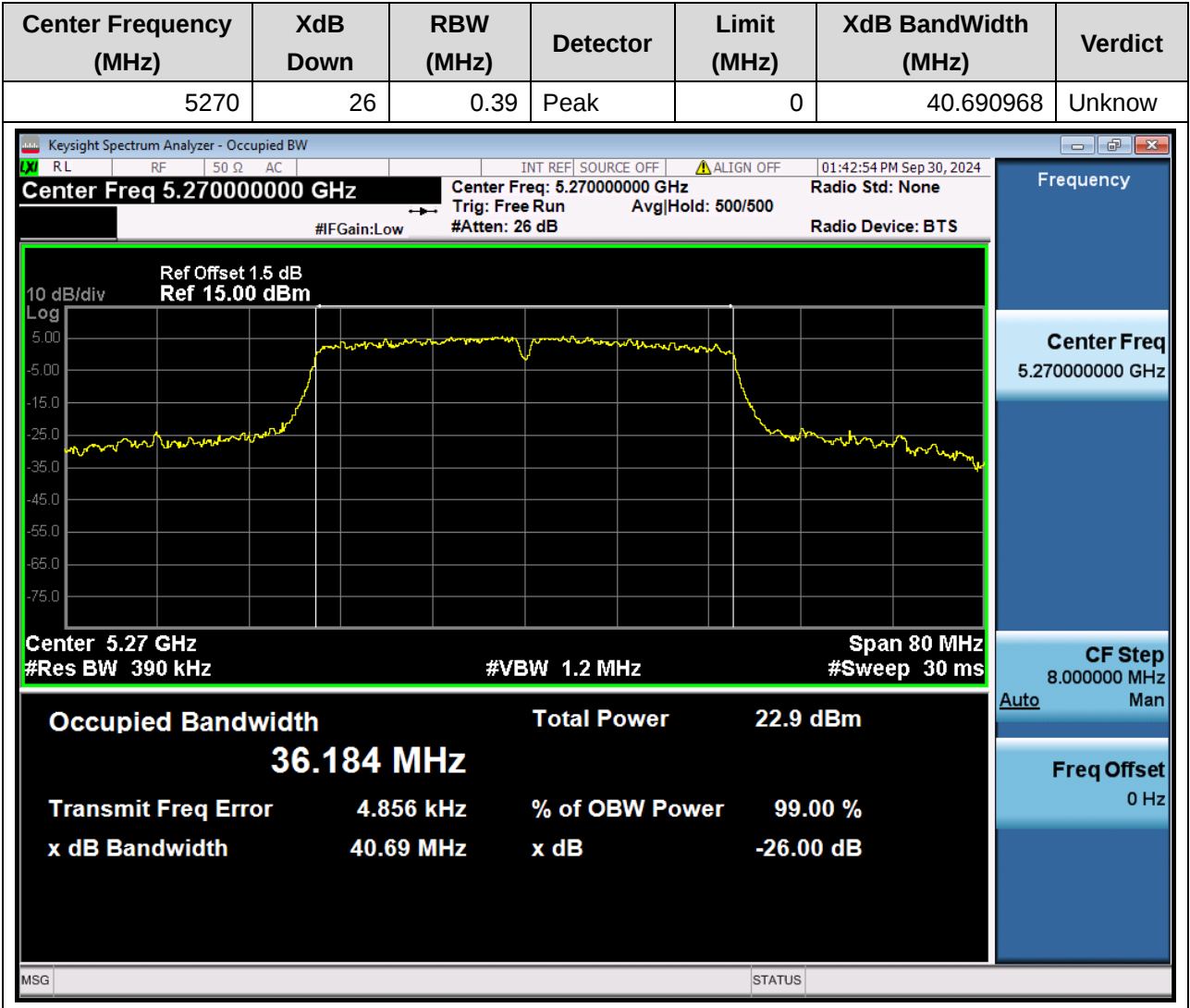
31. 802.11ac_20M_Band2_H_ANT1

31.1 A.2-26dB Bandwidth(NTNV)



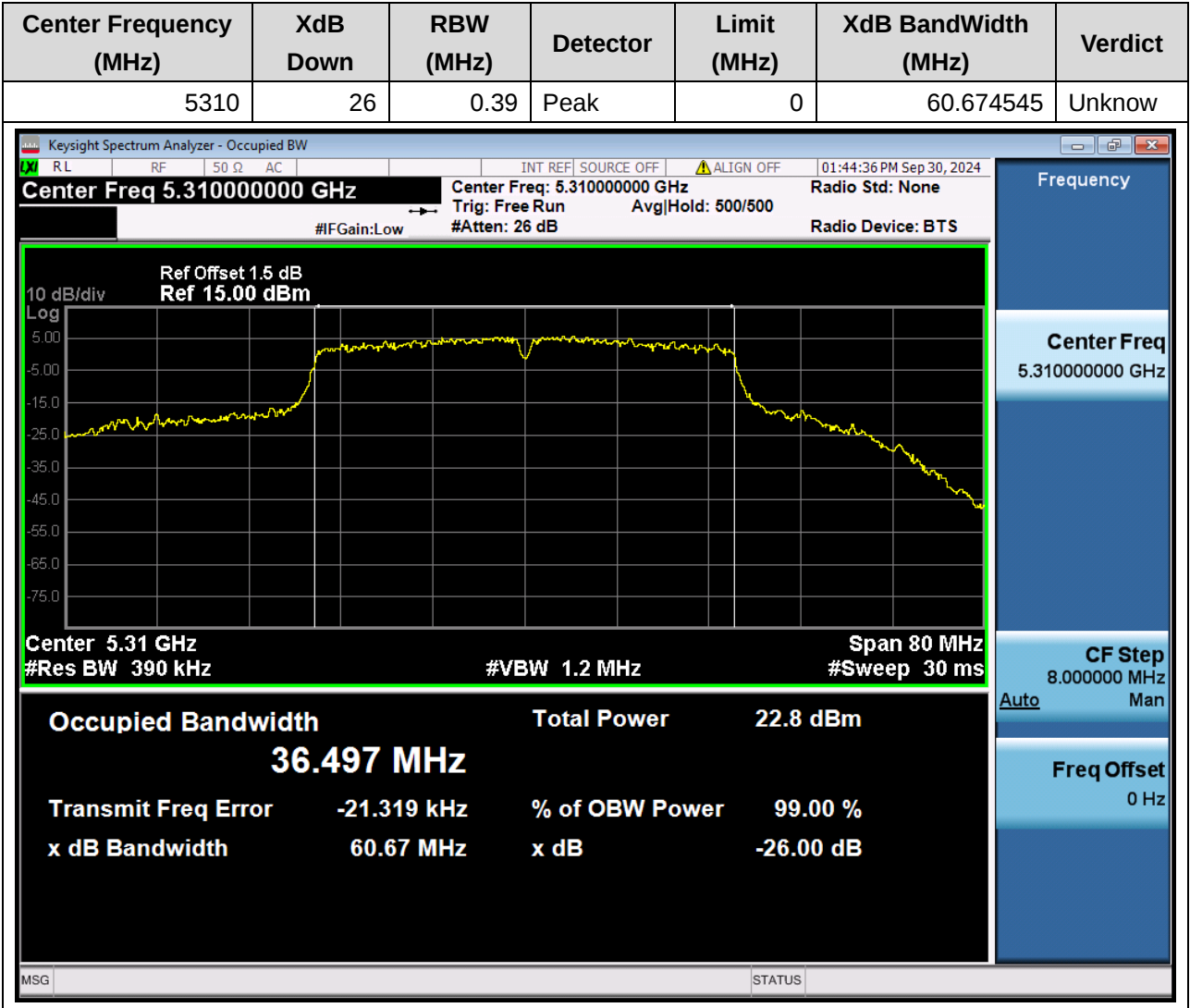
32. 802.11ac_40M_Band2_L_ANT1

32.1 A.2-26dB Bandwidth(NTNV)



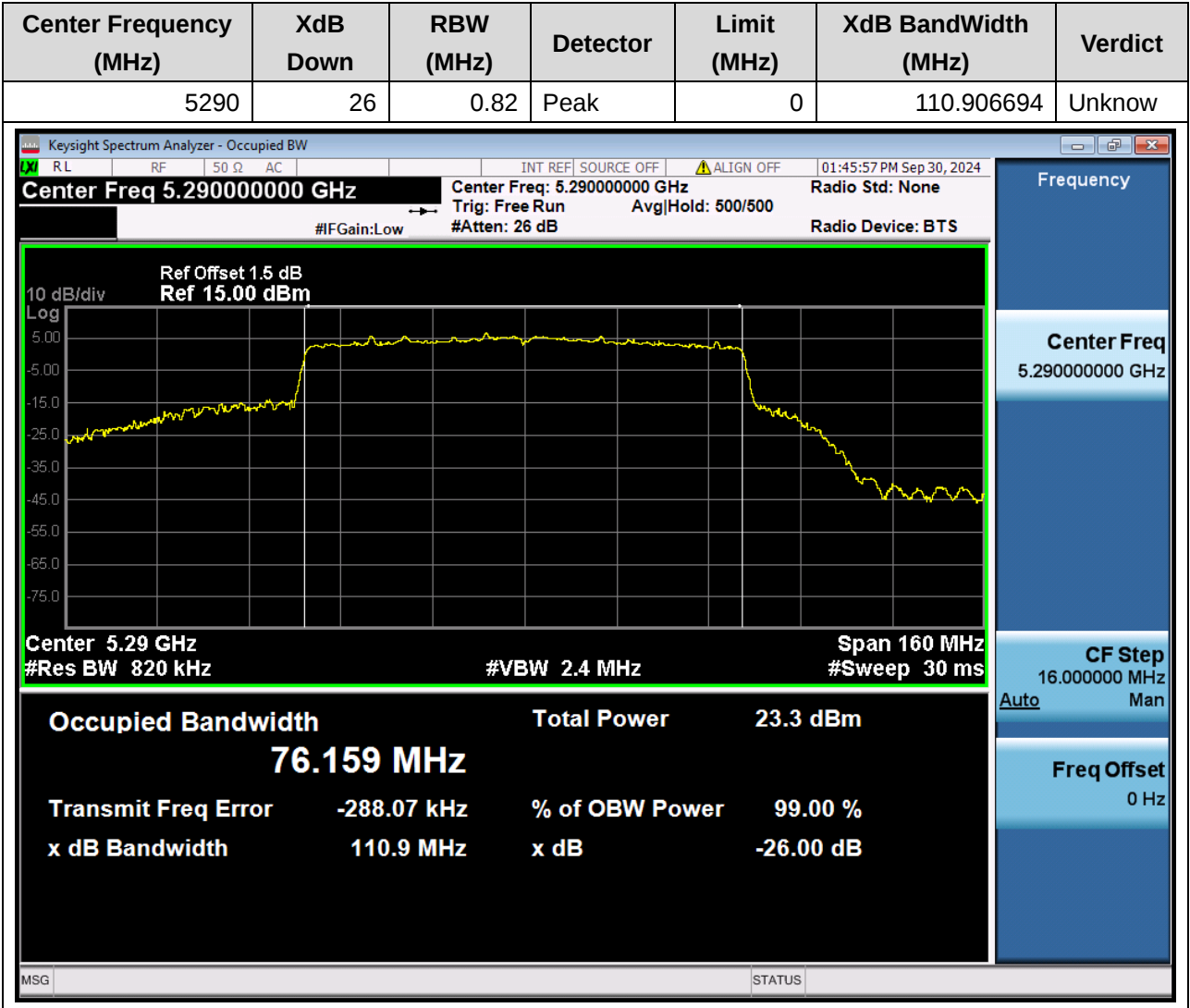
33. 802.11ac_40M_Band2_H_ANT1

33.1 A.2-26dB Bandwidth(NTNV)



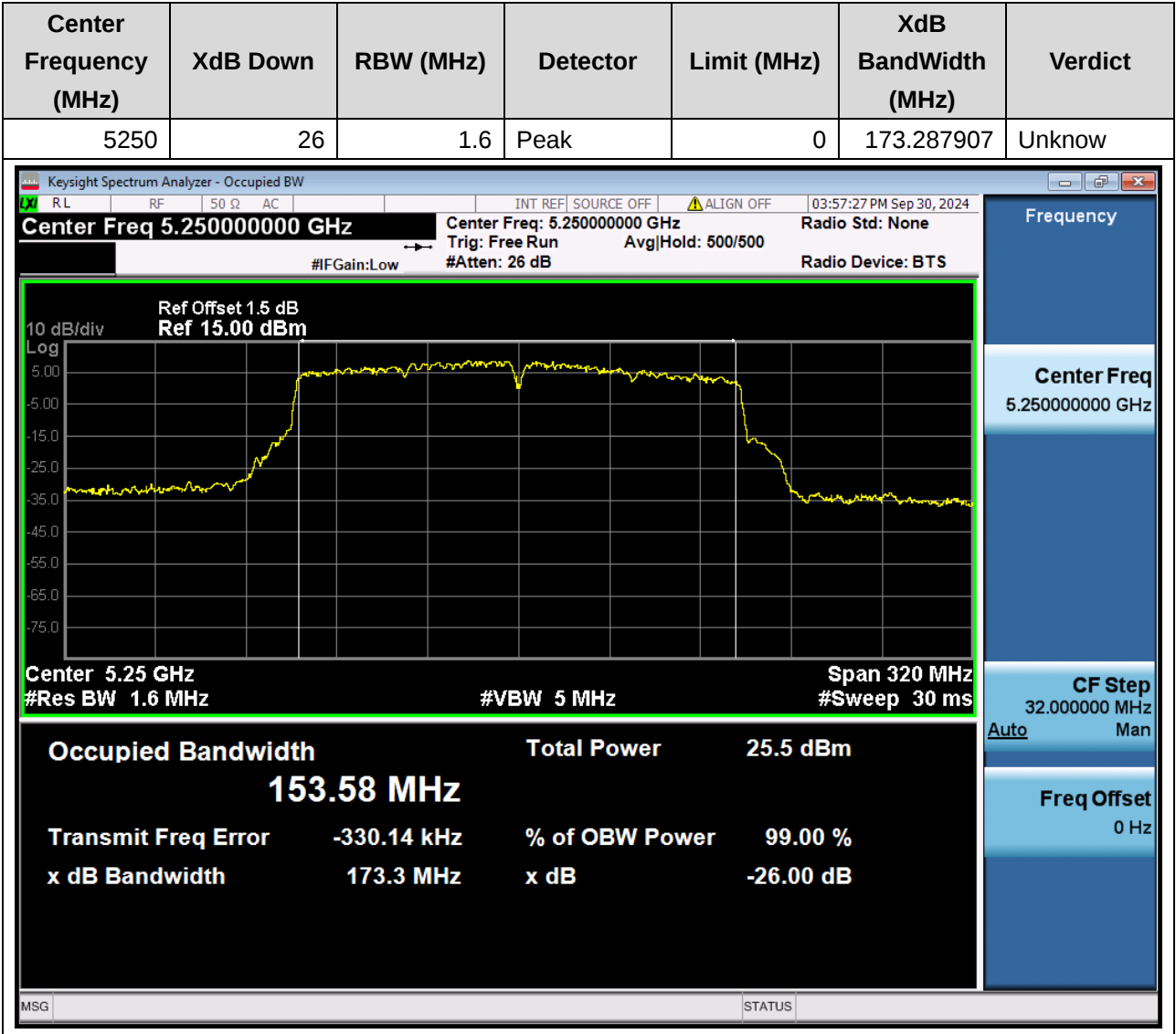
34. 802.11ac_80M_Band2_M_ANT1

34.1 A.2-26dB Bandwidth(NTNV)



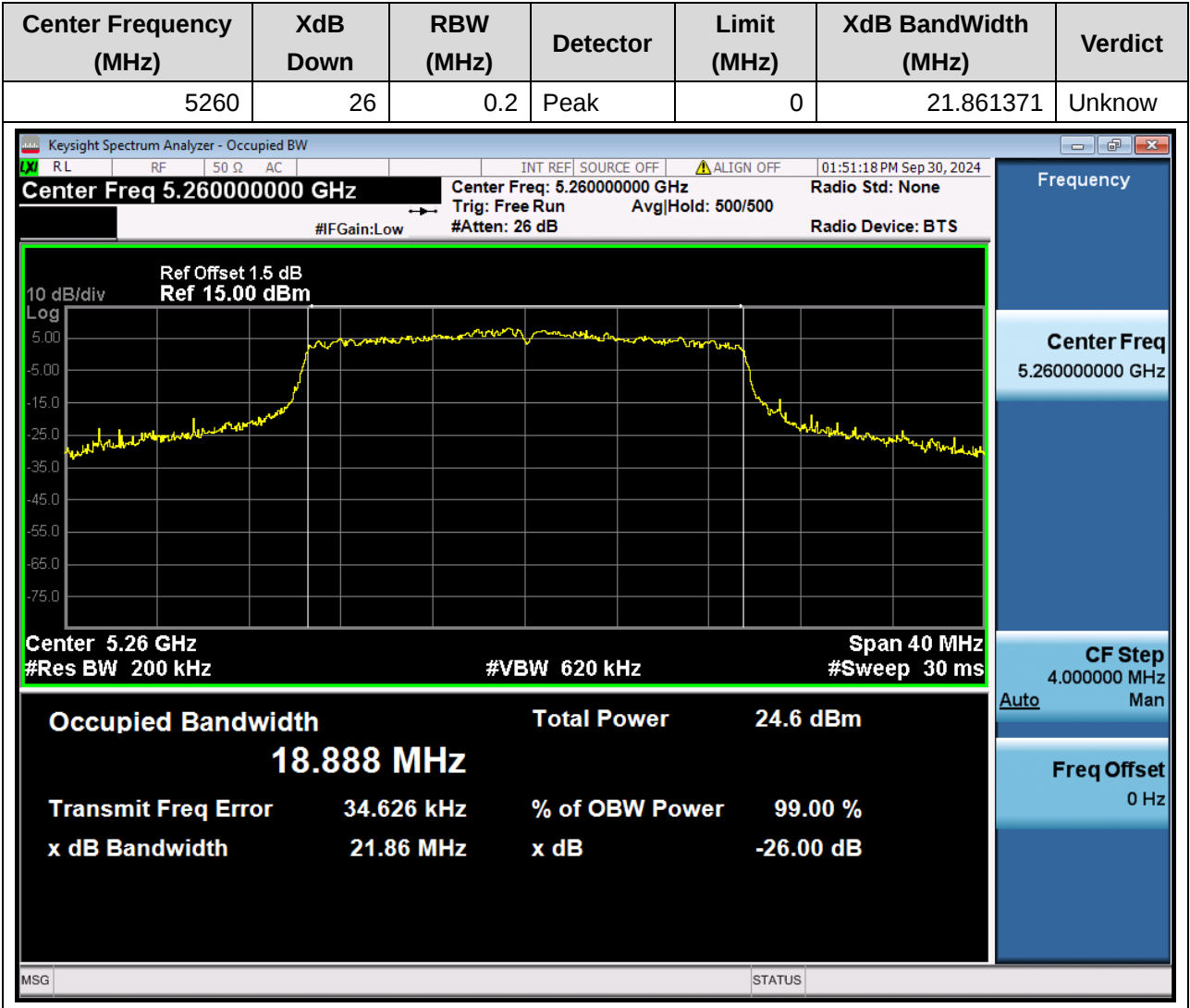
35. 802.11ac_160L_Band2_L_ANT1

35.1 A.2-26dB Bandwidth(NTNV)



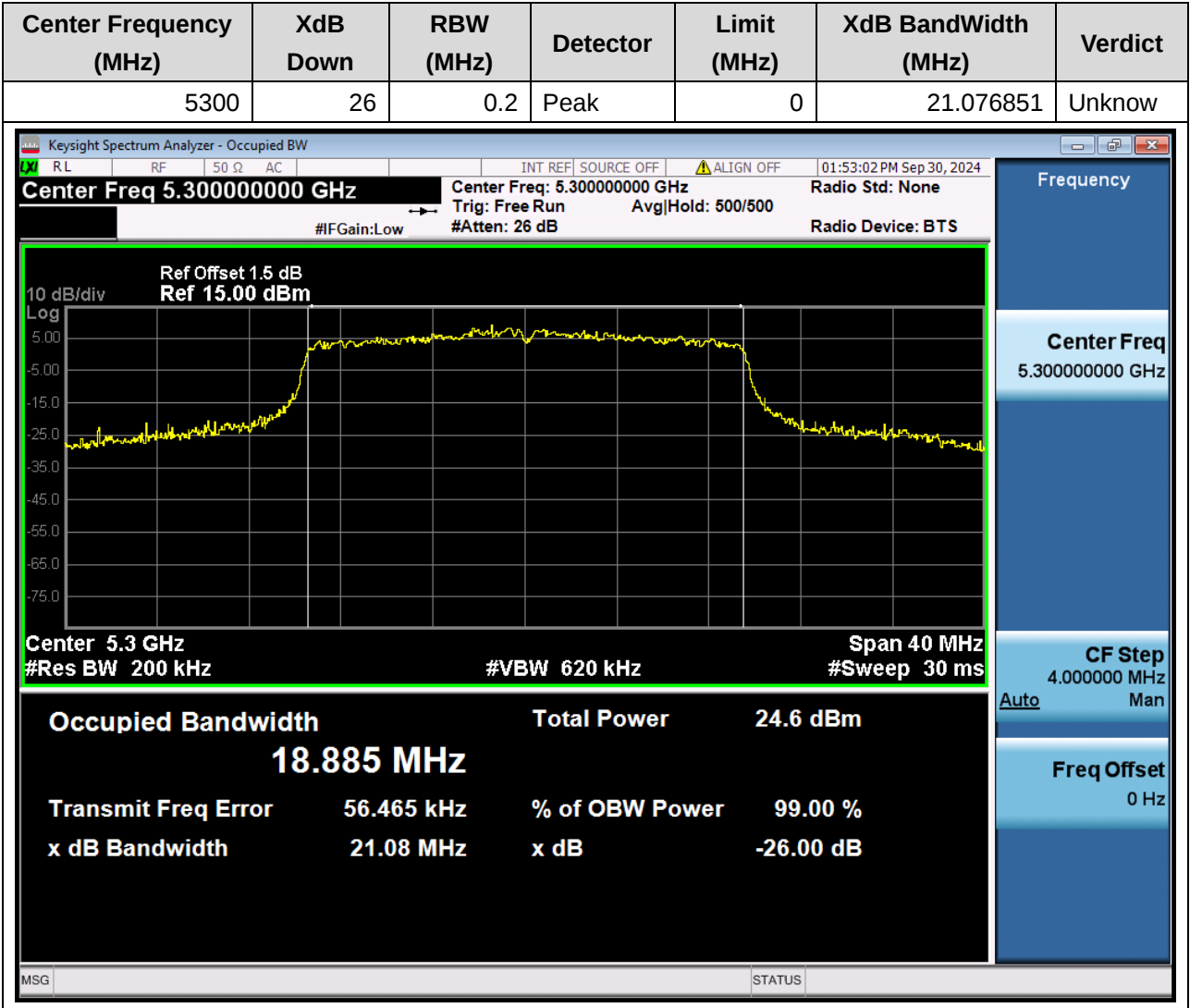
36. 802.11ax_20M_Band2_L_ANT1

36.1 A.2-26dB Bandwidth(NTNV)



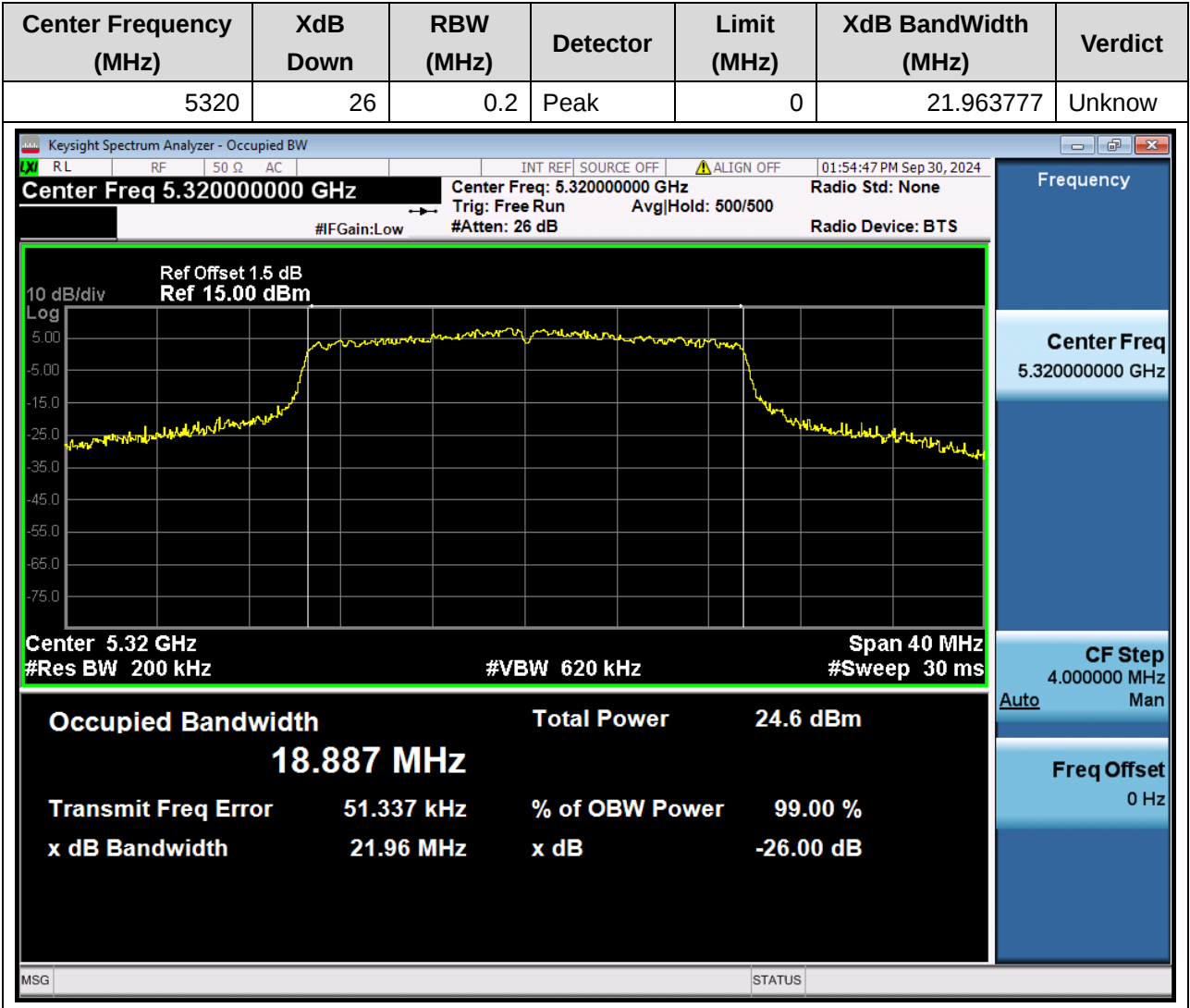
37. 802.11ax_20M_Band2_M_ANT1

37.1 A.2-26dB Bandwidth(NTNV)



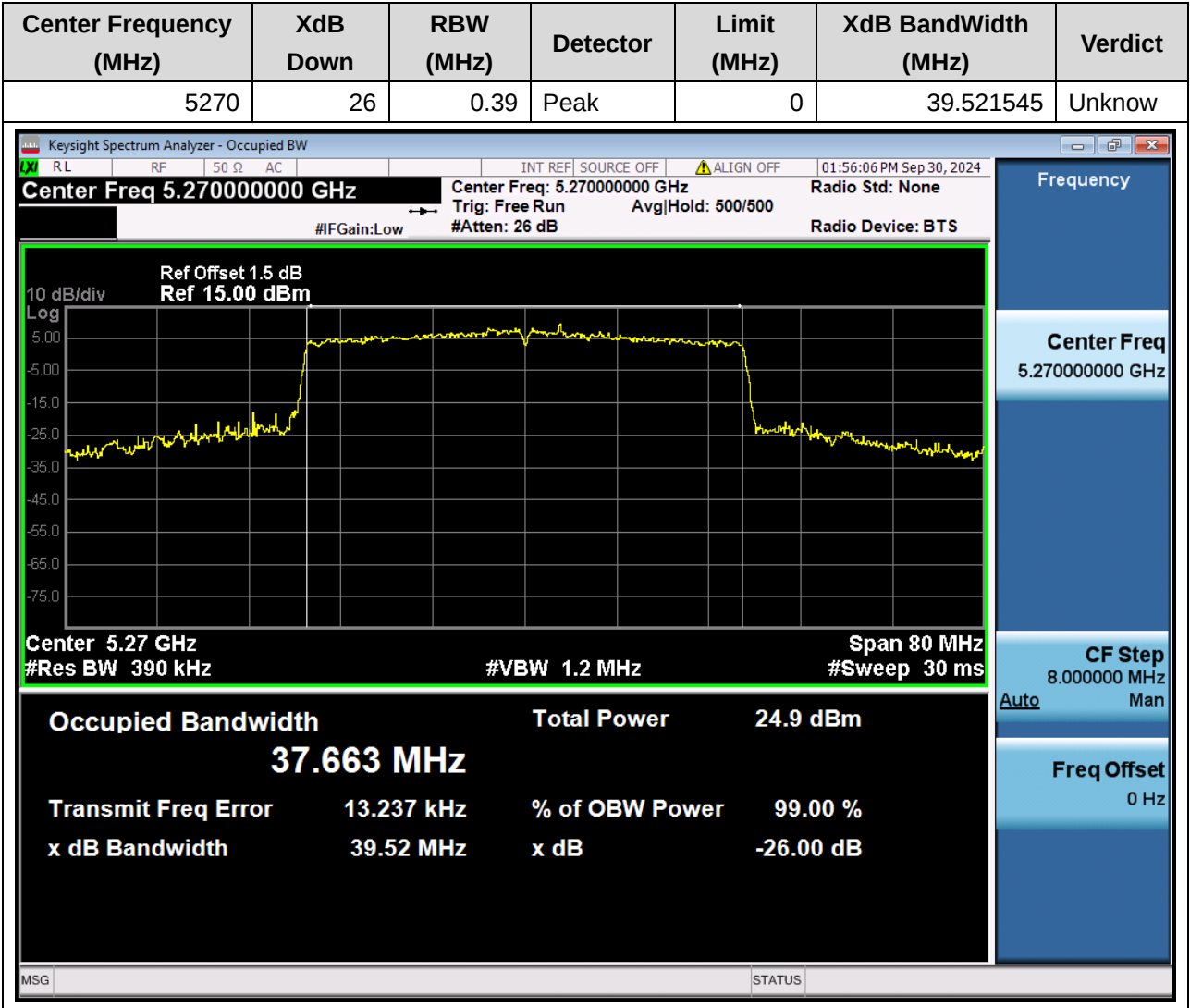
38. 802.11ax_20M_Band2_H_ANT1

38.1 A.2-26dB Bandwidth(NTNV)



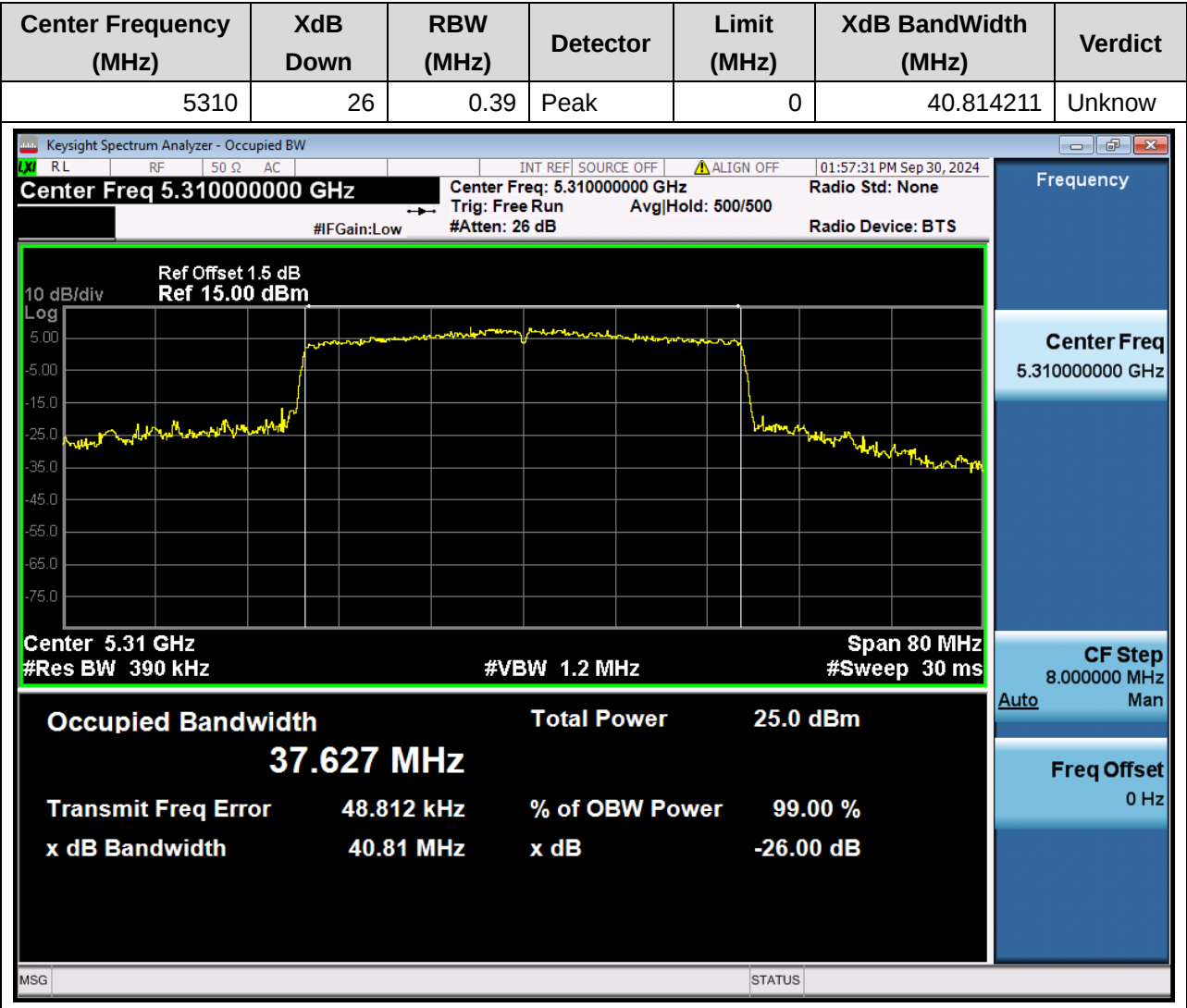
39. 802.11ax_40M_Band2_L_ANT1

39.1 A.2-26dB Bandwidth(NTNV)



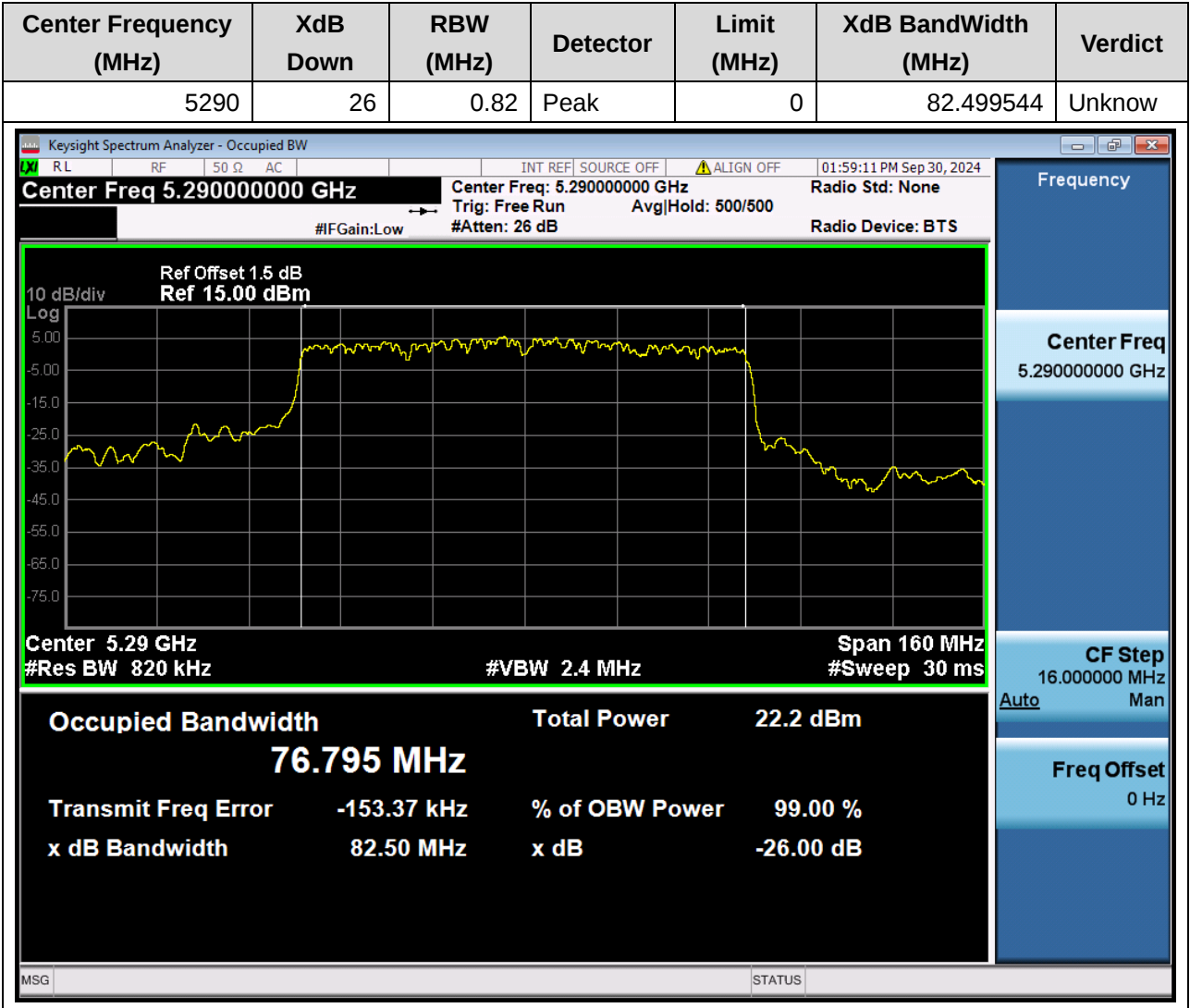
40. 802.11ax_40M_Band2_H_ANT1

40.1 A.2-26dB Bandwidth(NTNV)



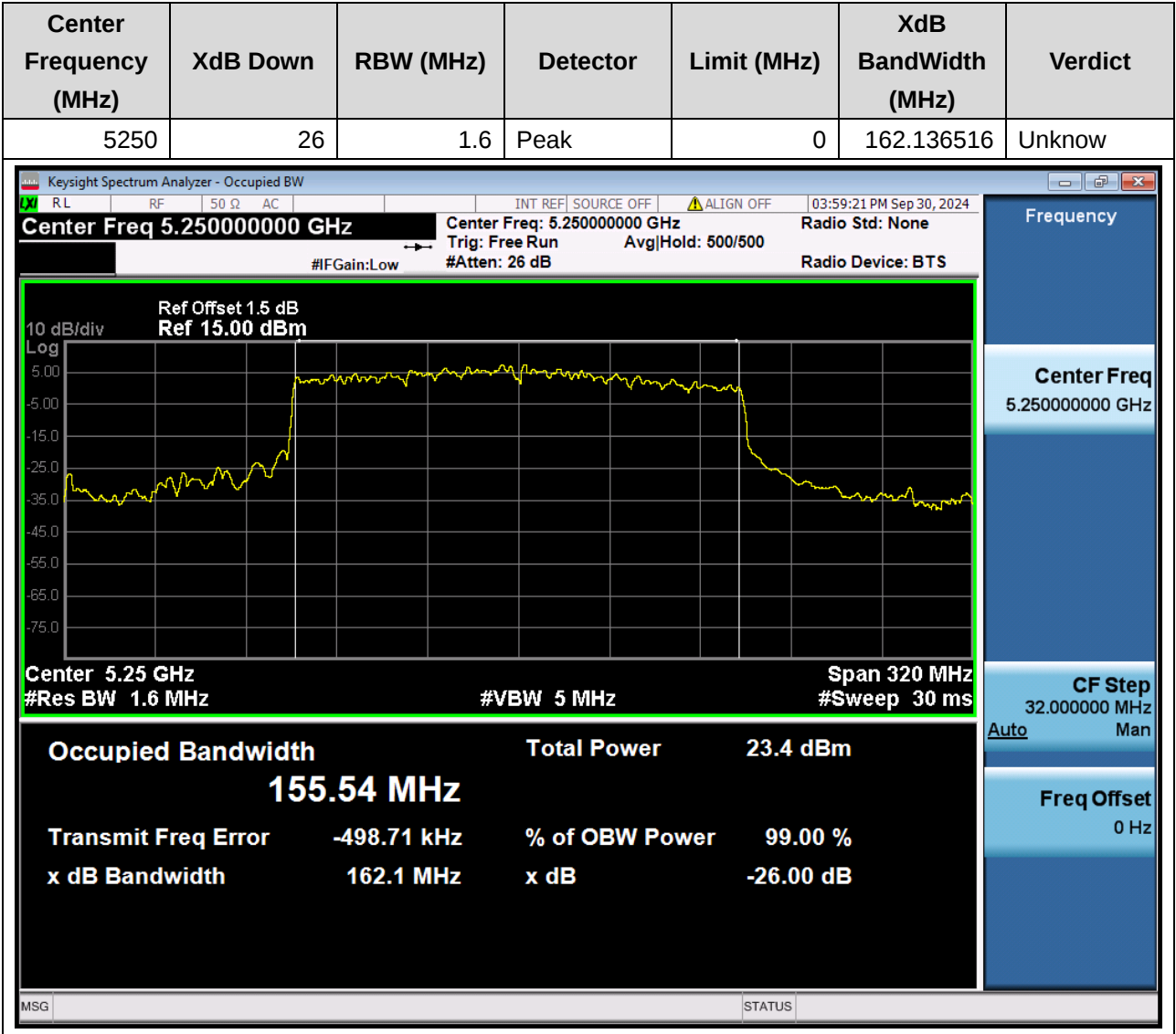
41. 802.11ax_80M_Band2_M_ANT1

41.1 A.2-26dB Bandwidth(NTNV)



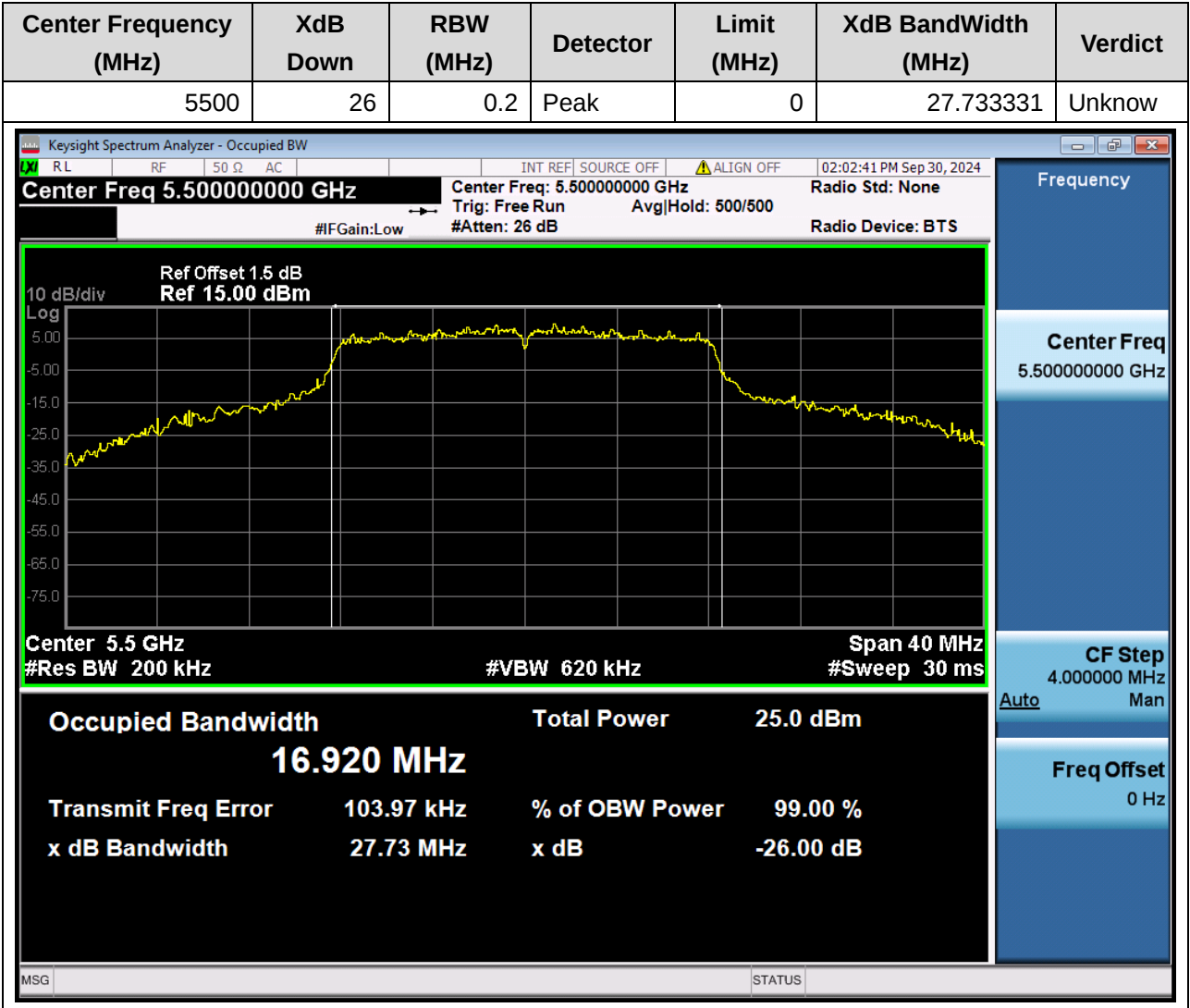
42. 802.11ax_160L_Band2_L_ANT1

42.1 A.2-26dB Bandwidth(NTNV)



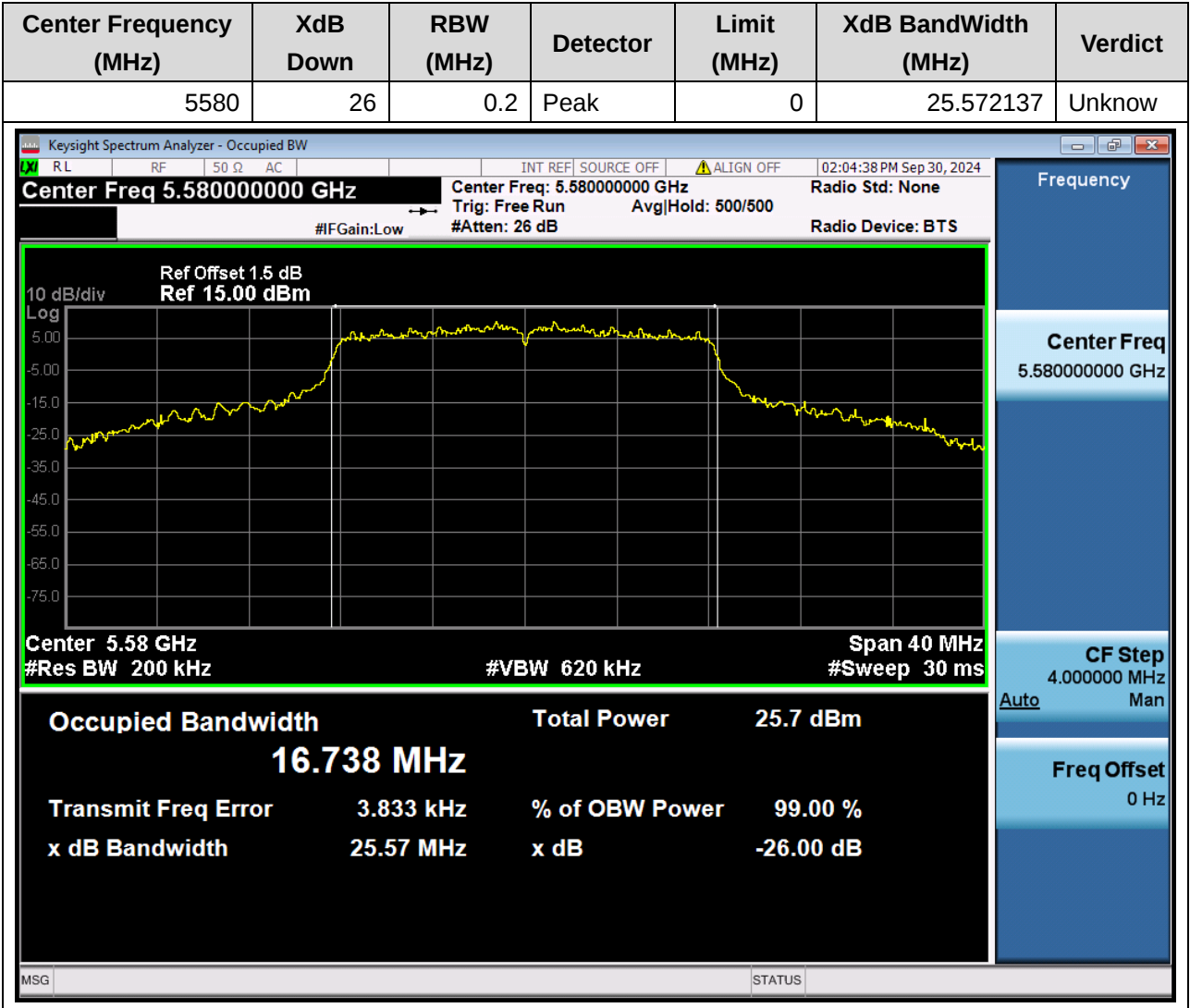
43. 802.11a_20M_Band3_L_ANT1

43.1 A.2-26dB Bandwidth(NTNV)



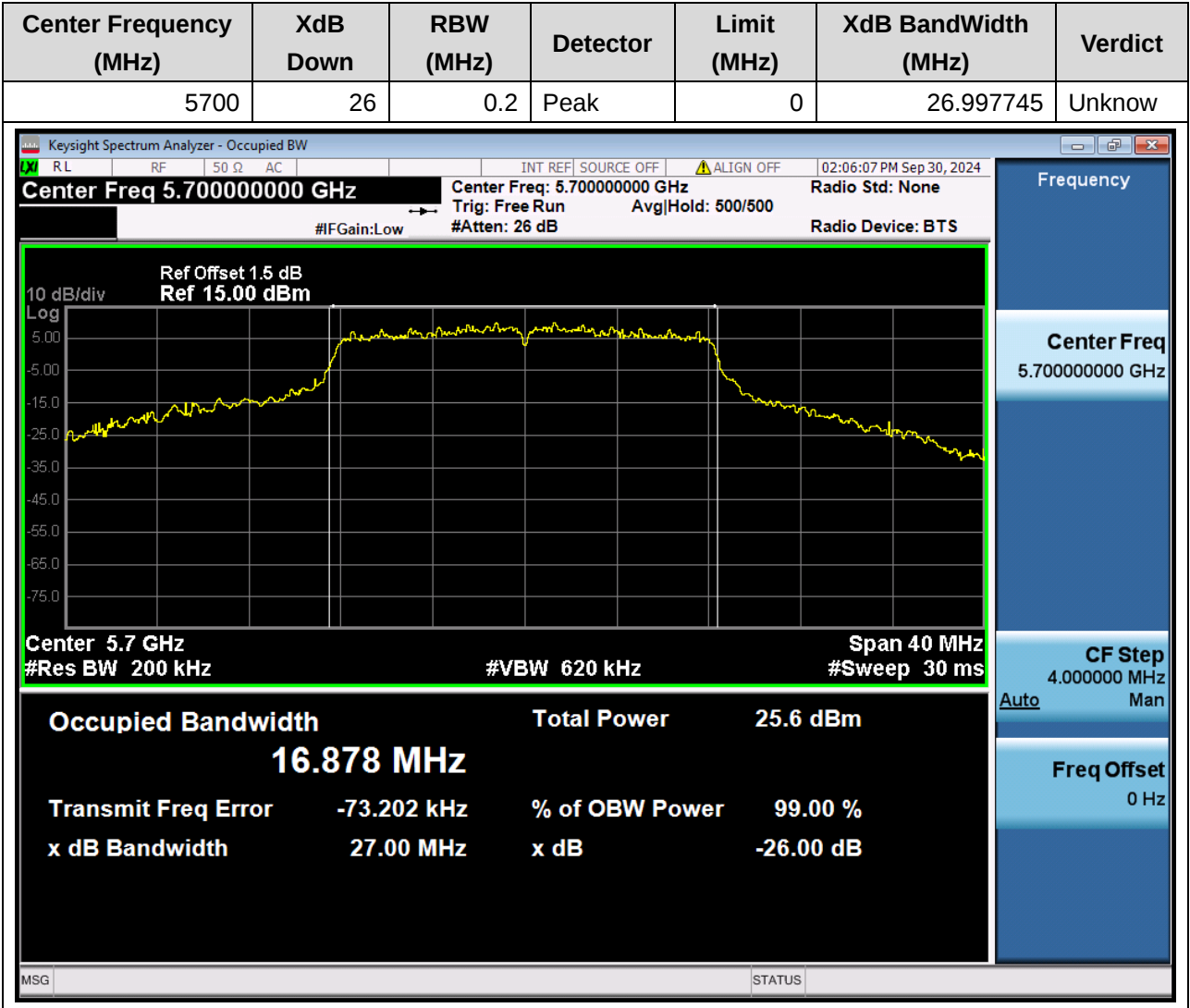
44. 802.11a_20M_Band3_M_ANT1

44.1 A.2-26dB Bandwidth(NTNV)



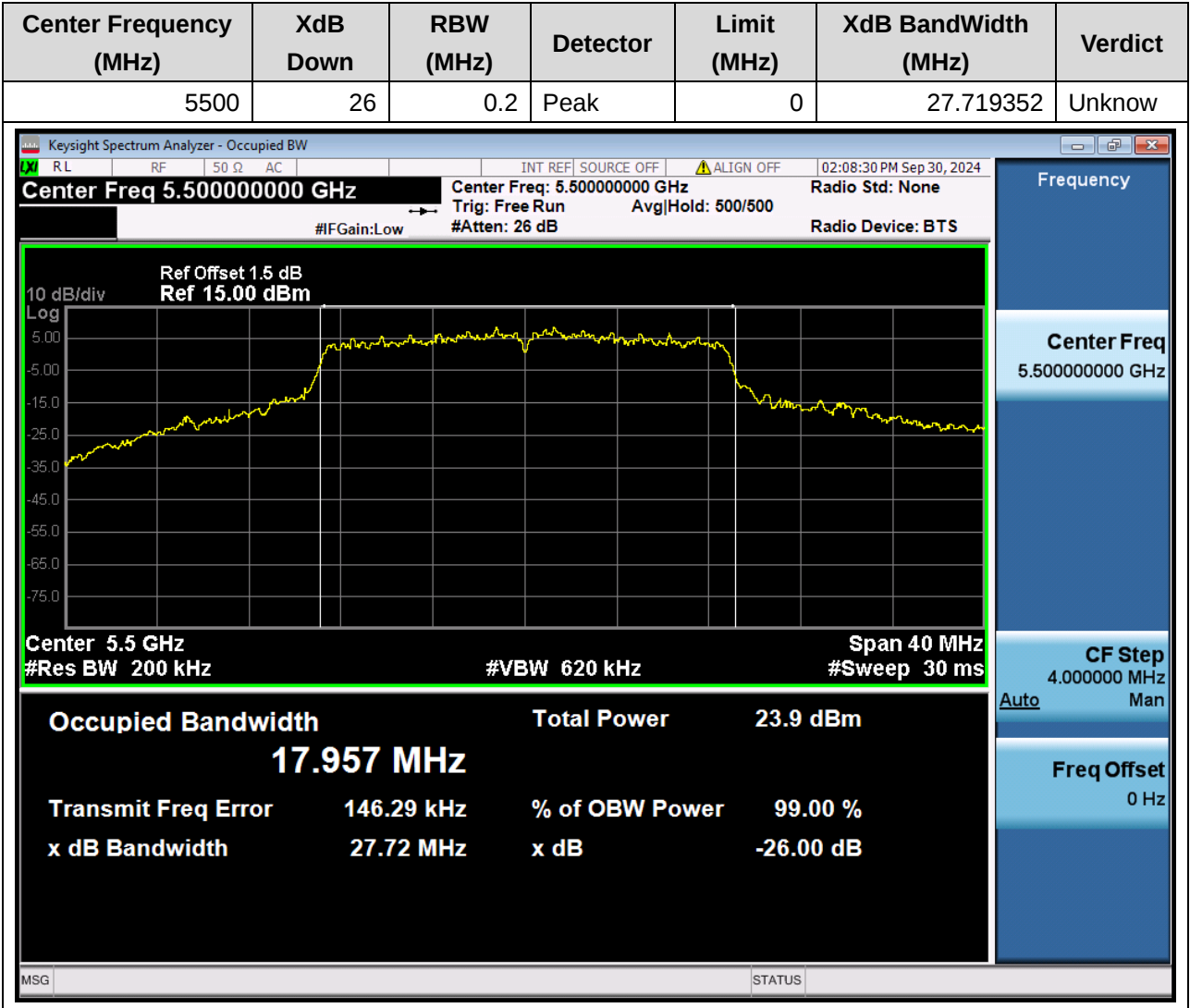
45. 802.11a_20M_Band3_H_ANT1

45.1 A.2-26dB Bandwidth(NTNV)



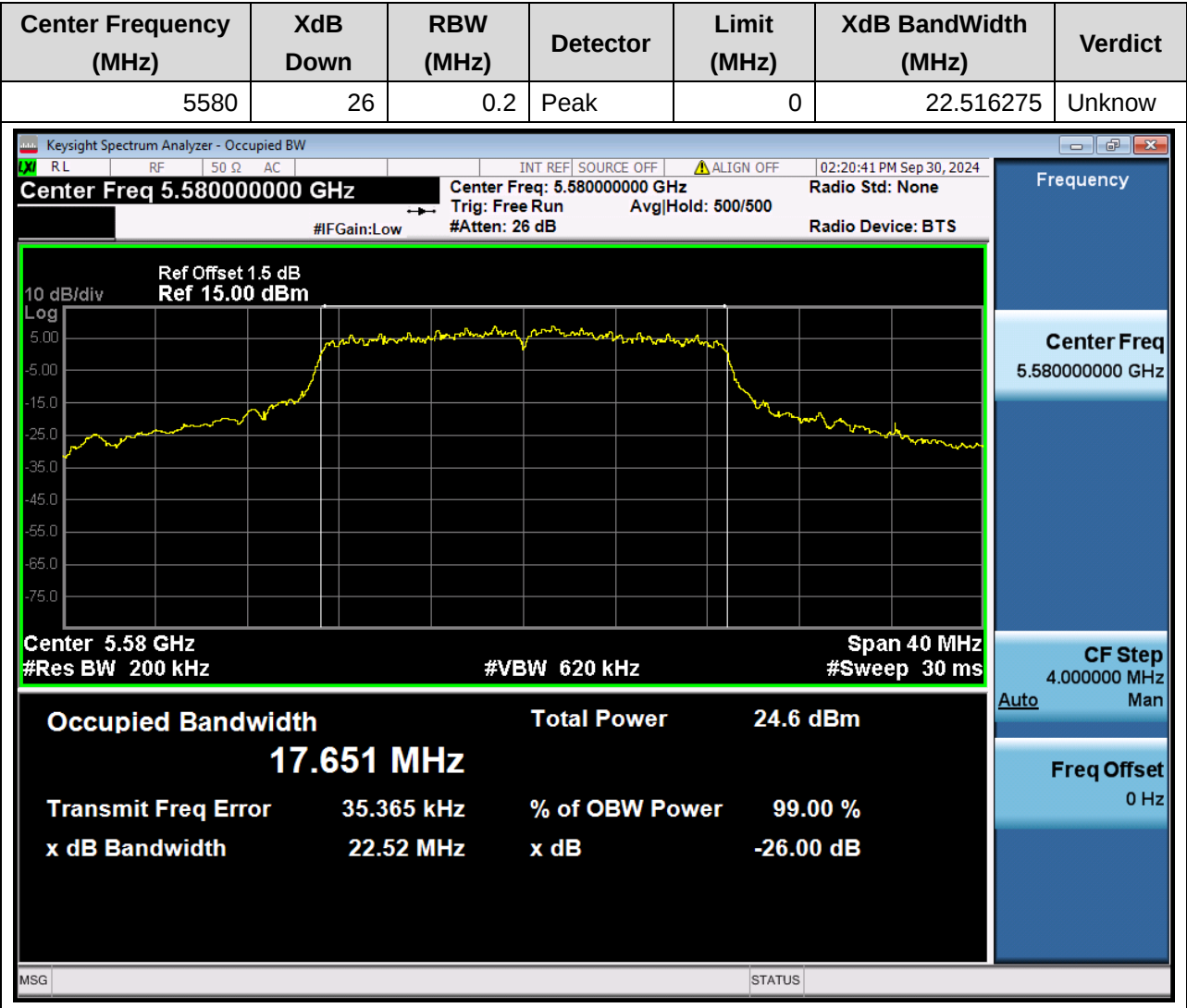
46. 802.11n_20M_Band3_L_ANT1

46.1 A.2-26dB Bandwidth(NTNV)



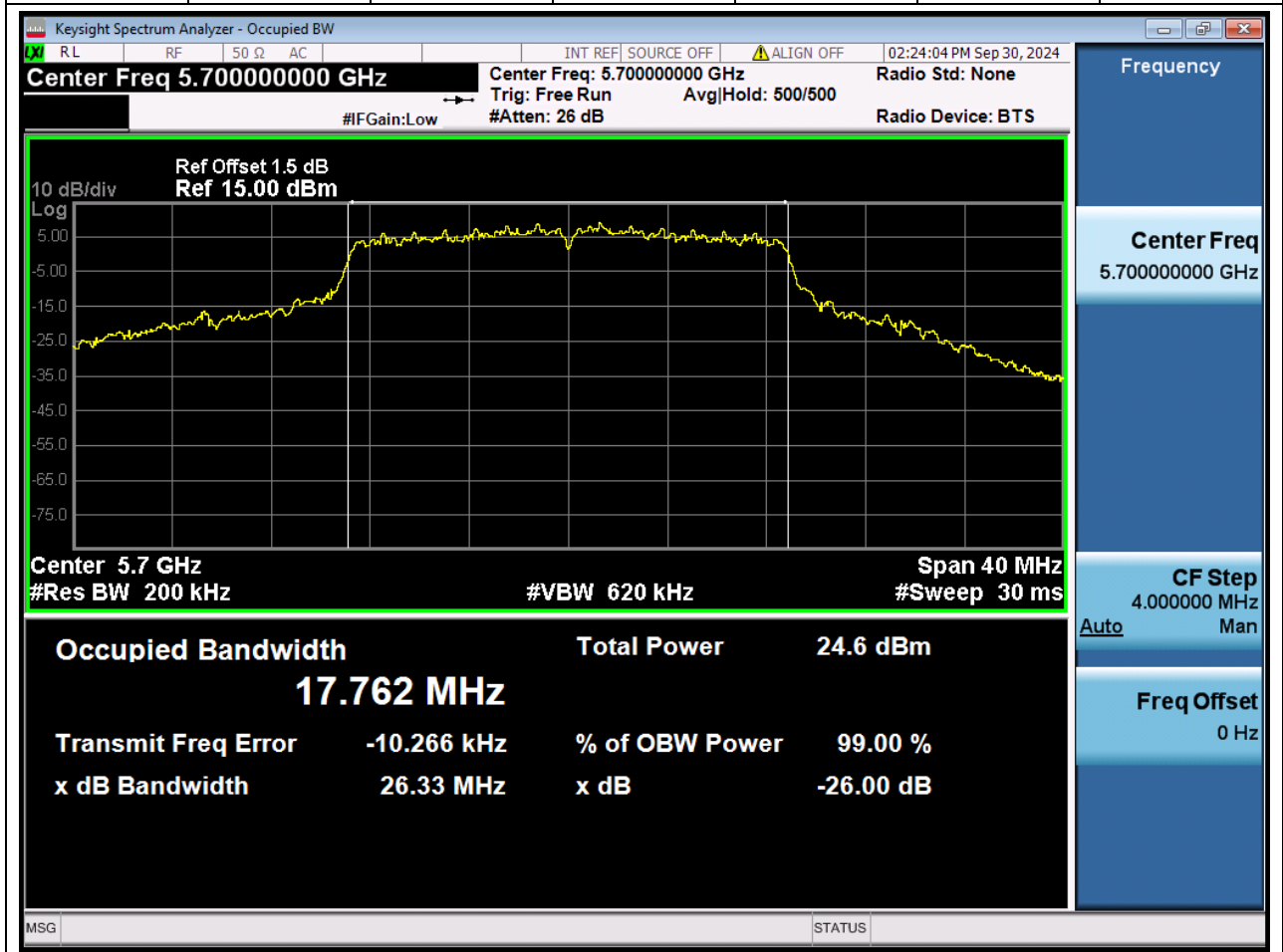
47. 802.11n_20M_Band3_M_ANT1

47.1 A.2-26dB Bandwidth(NTNV)



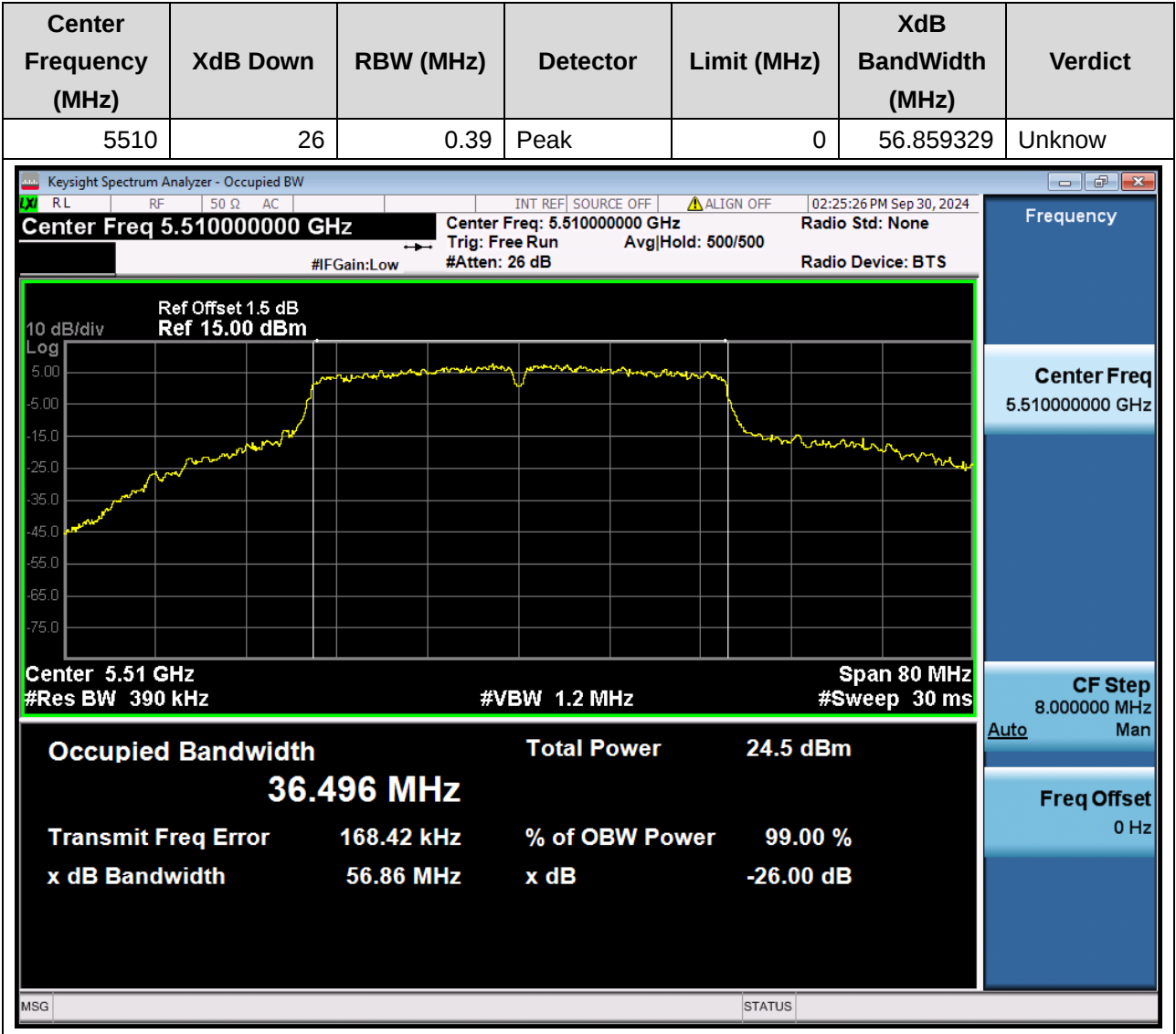
48.1 A.2-26dB Bandwidth(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5700	26	0.2	Peak	0	26.334284	Unknow



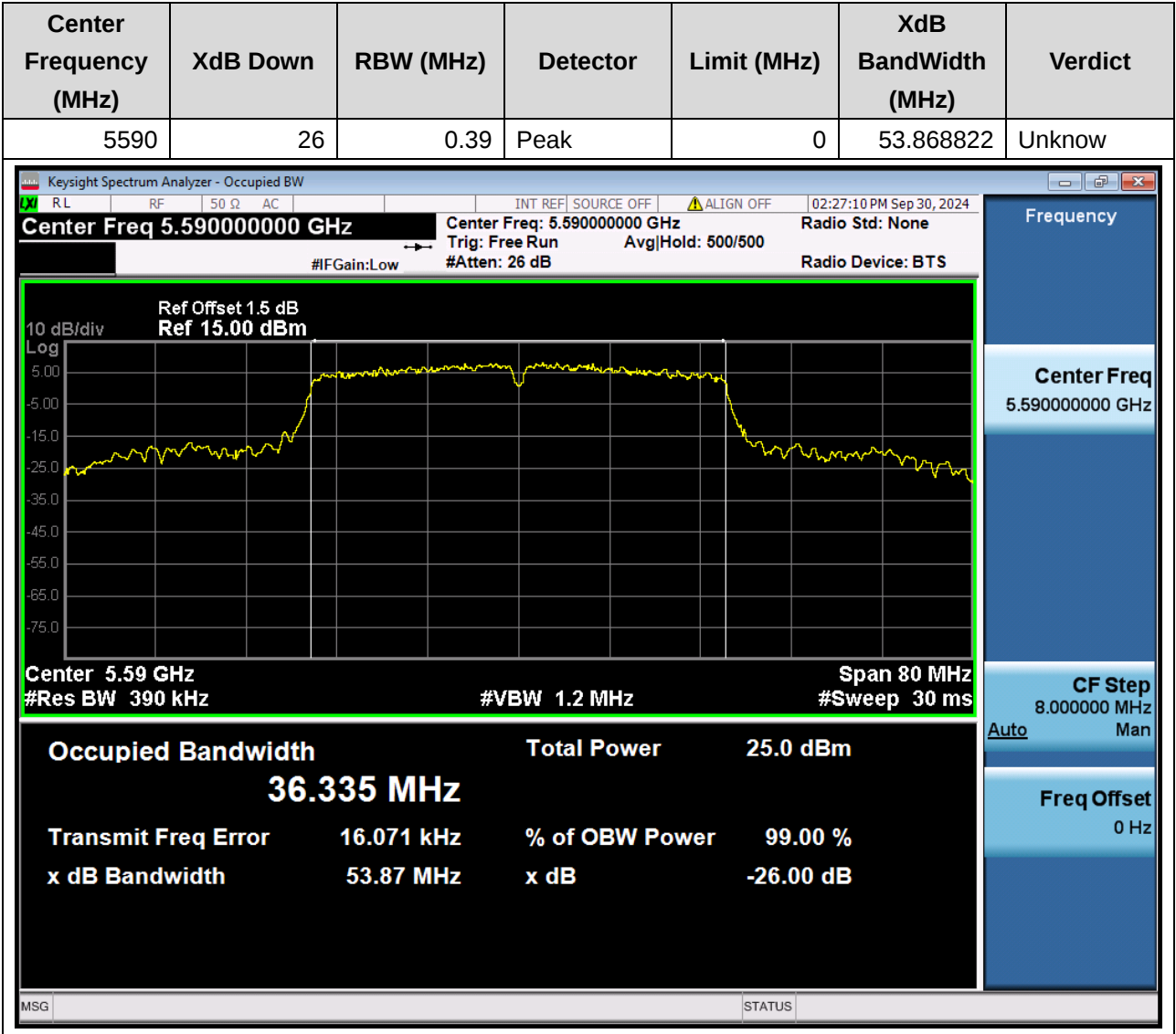
49. 802.11n_40M_Band3_L_ANT1

49.1 A.2-26dB Bandwidth(NTNV)



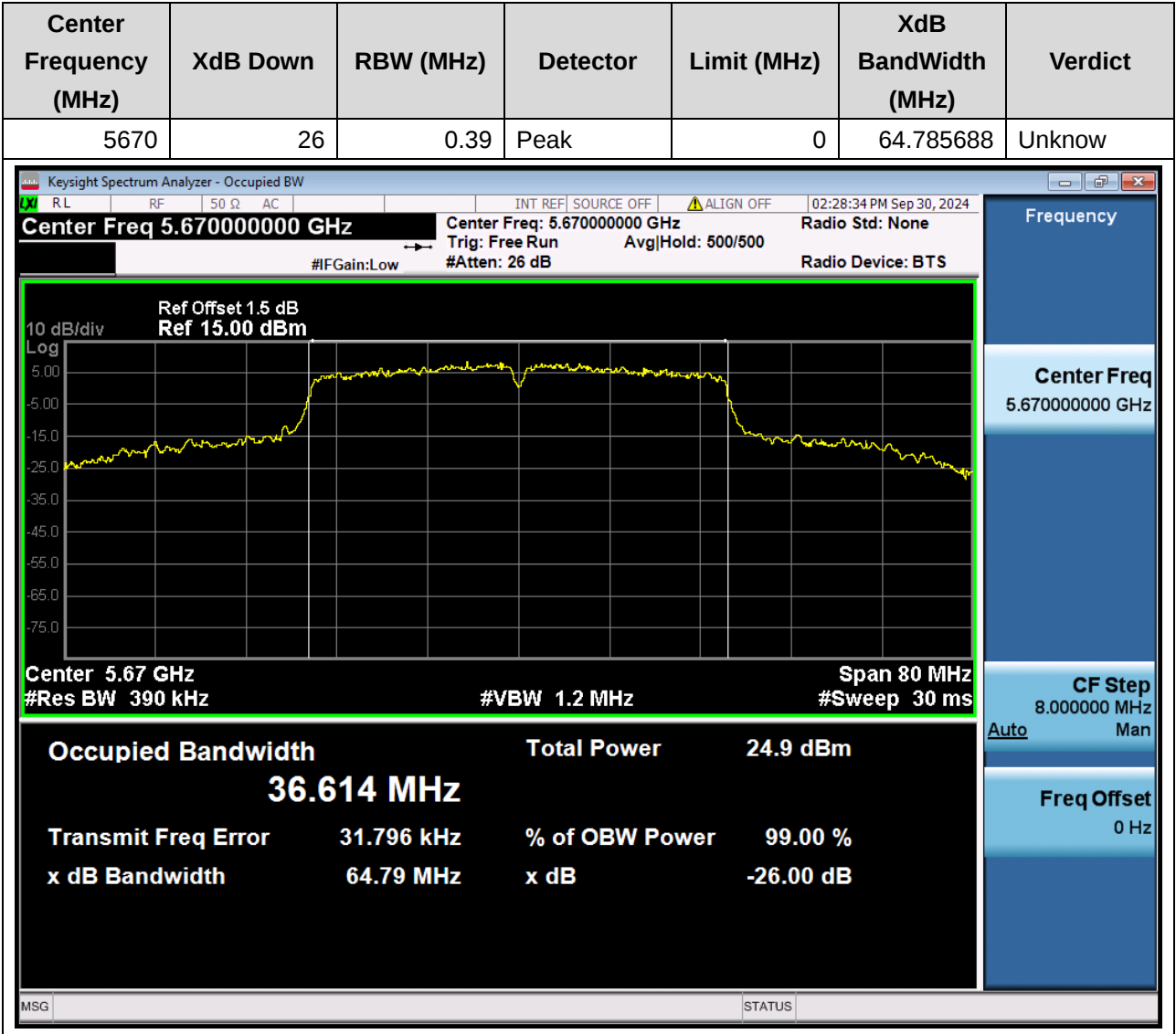
50. 802.11n_40M_Band3_M_ANT1

50.1 A.2-26dB Bandwidth(NTNV)



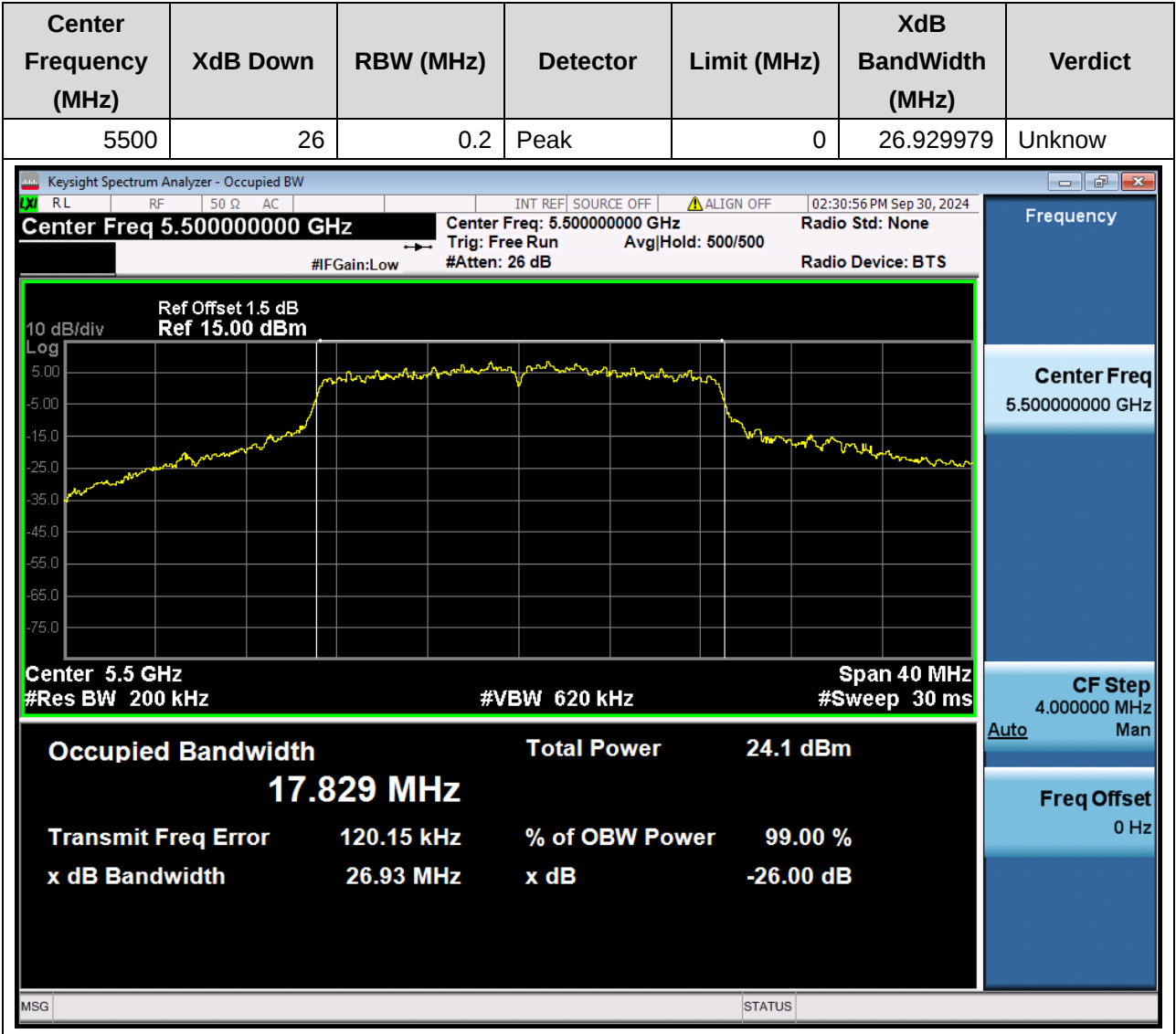
51. 802.11n_40M_Band3_H_ANT1

51.1 A.2-26dB Bandwidth(NTNV)



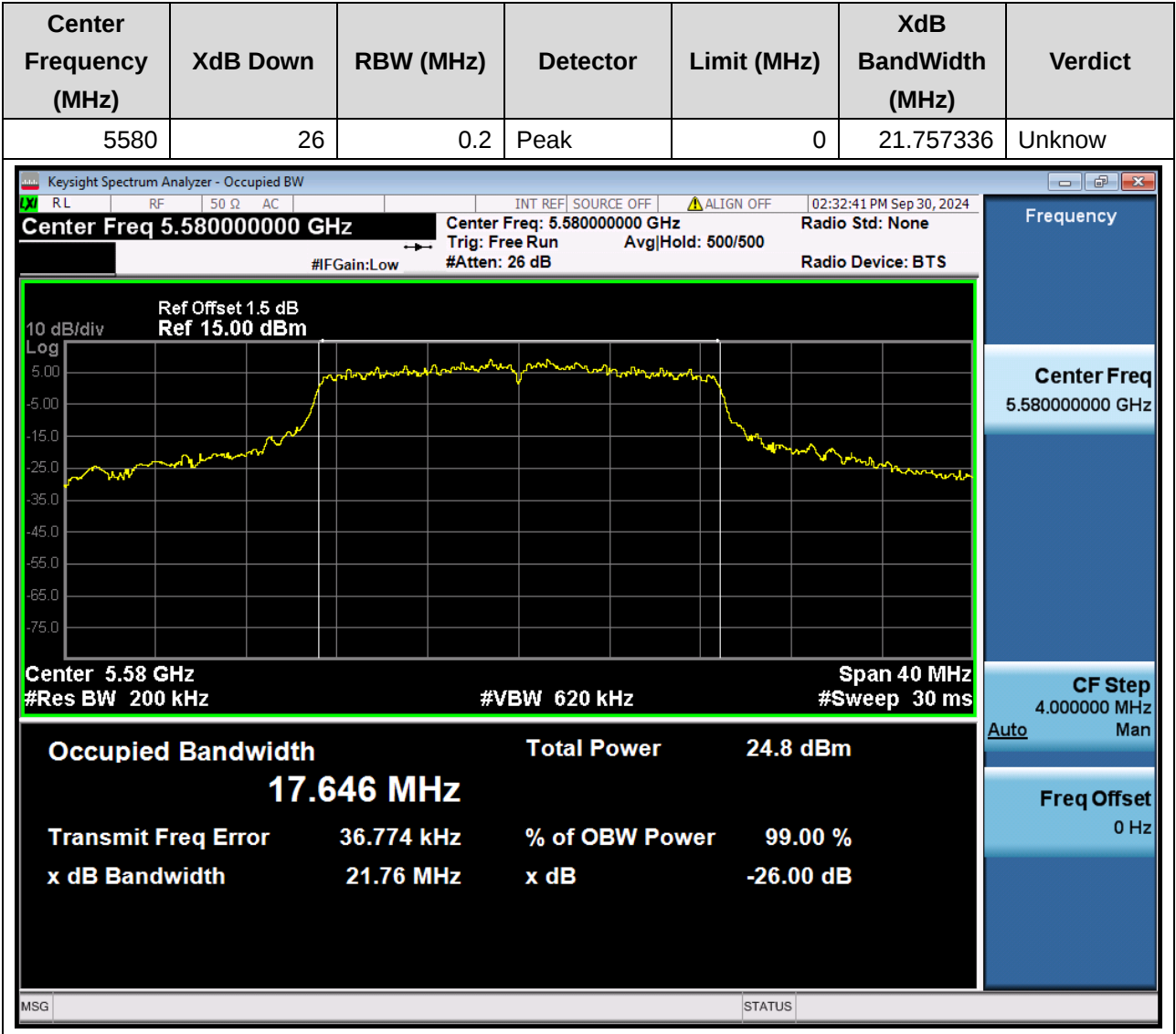
52. 802.11ac_20M_Band3_L_ANT1

52.1 A.2-26dB Bandwidth(NTNV)



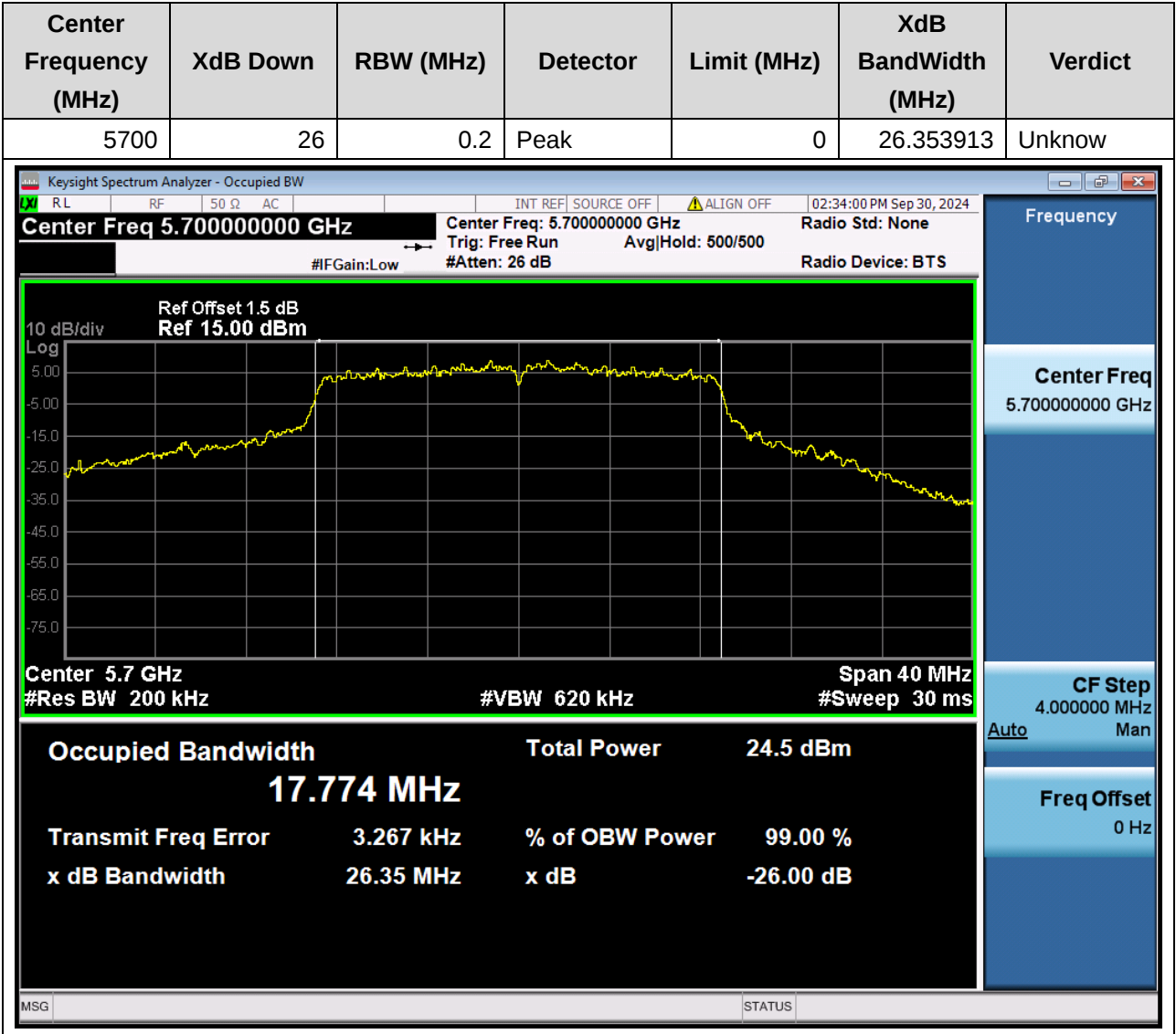
53. 802.11ac_20M_Band3_M_ANT1

53.1 A.2-26dB Bandwidth(NTNV)



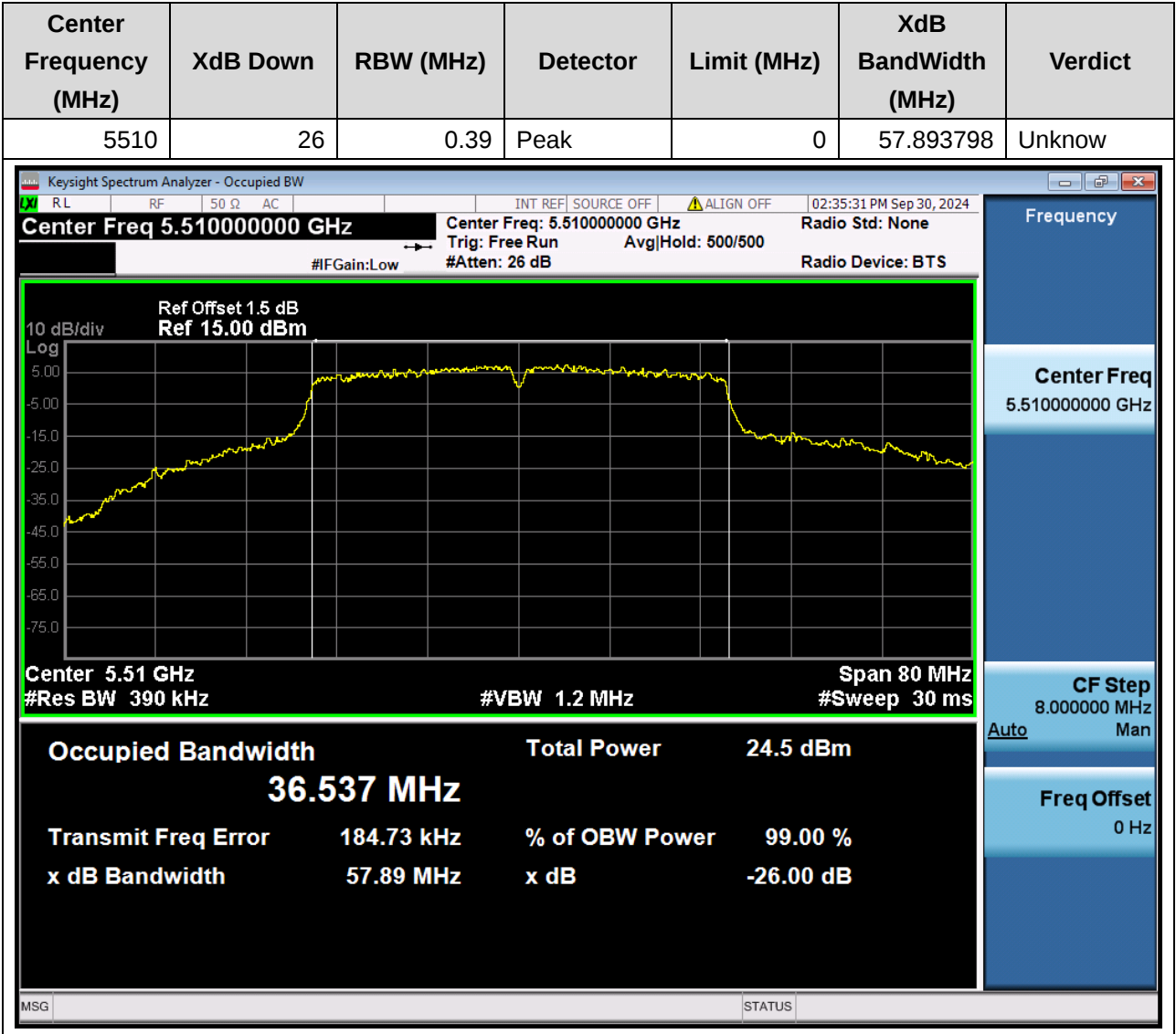
54. 802.11ac_20M_Band3_H_ANT1

54.1 A.2-26dB Bandwidth(NTNV)



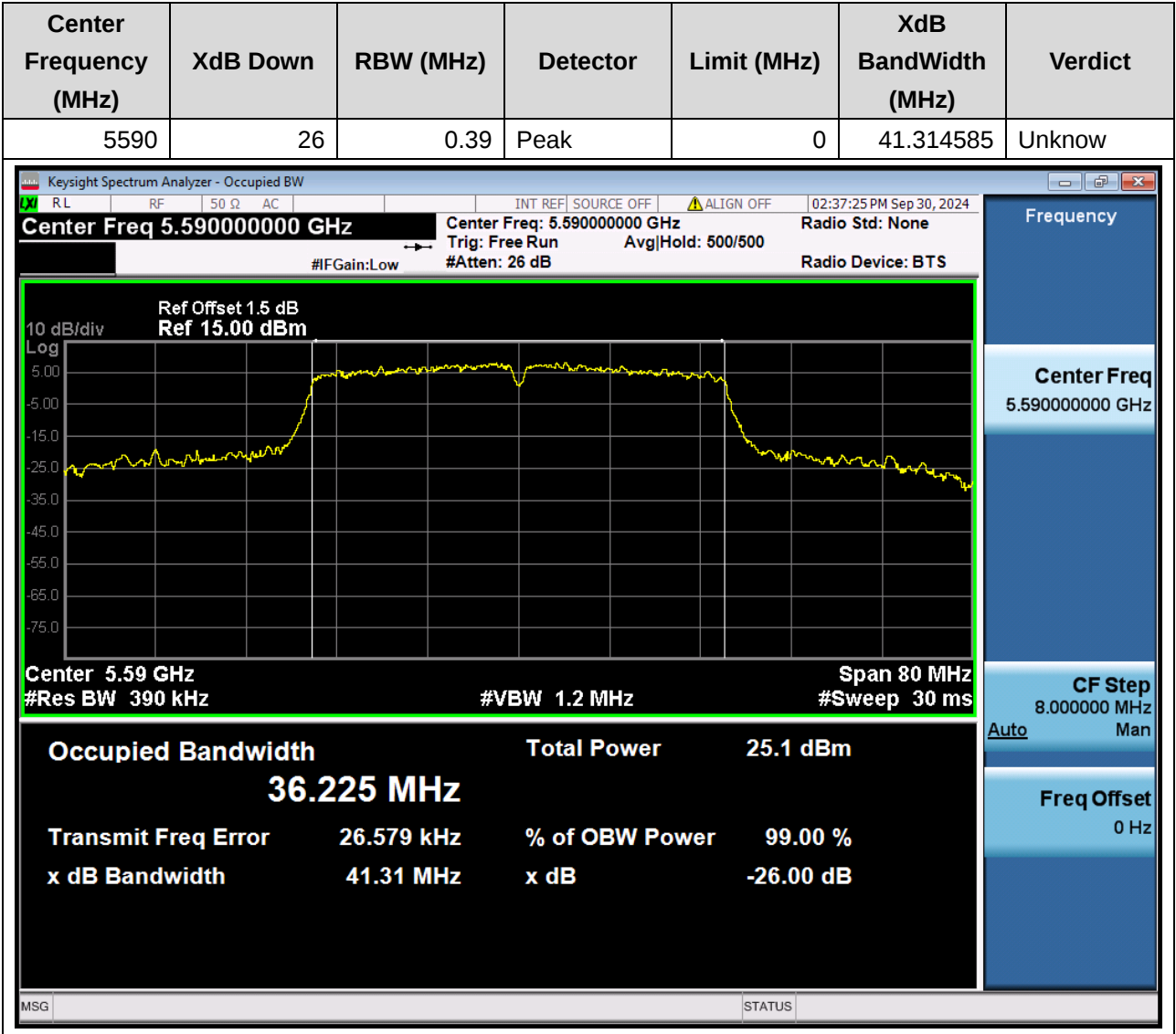
55. 802.11ac_40M_Band3_L_ANT1

55.1 A.2-26dB Bandwidth(NTNV)



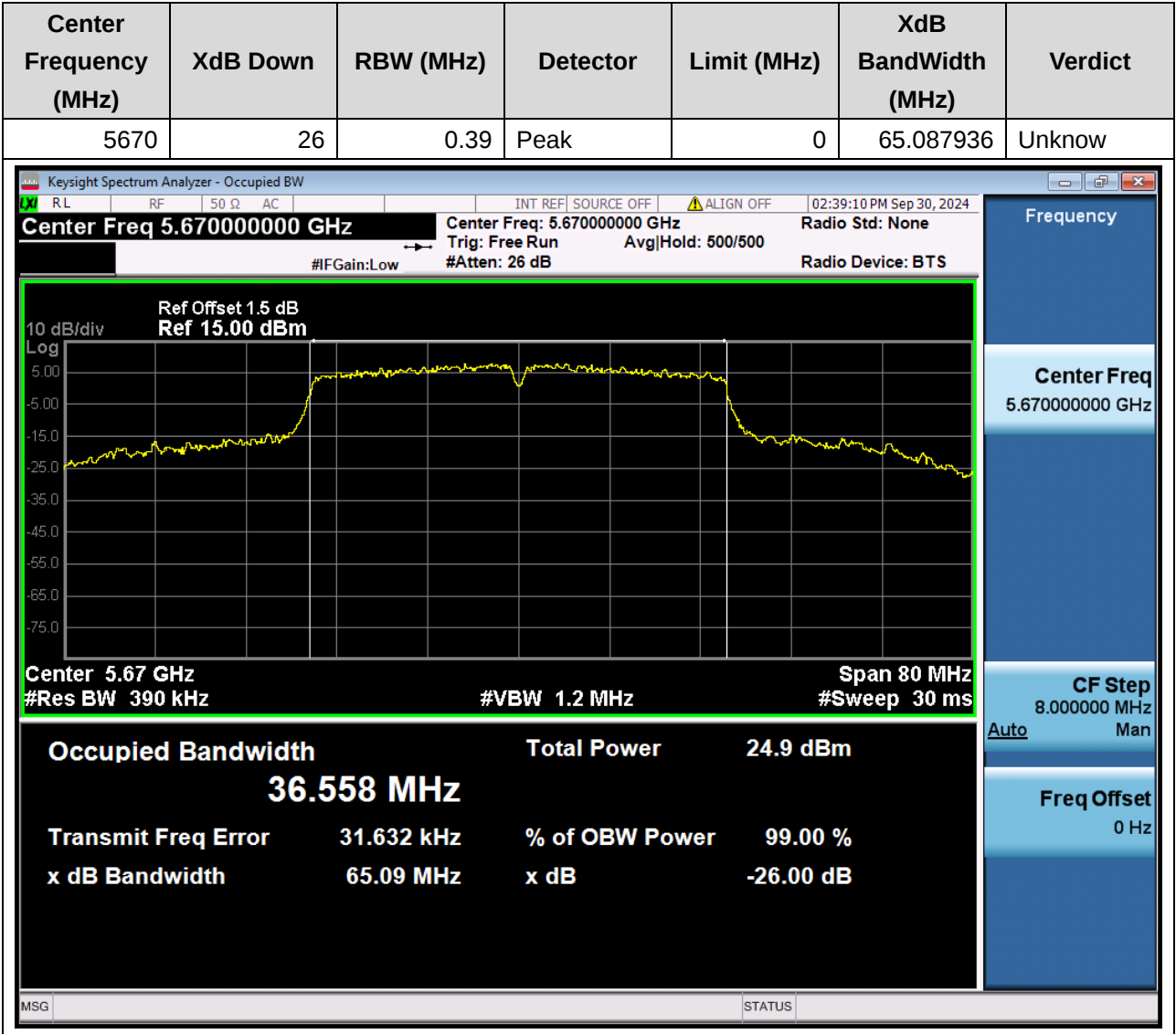
56. 802.11ac_40M_Band3_M_ANT1

56.1 A.2-26dB Bandwidth(NTNV)



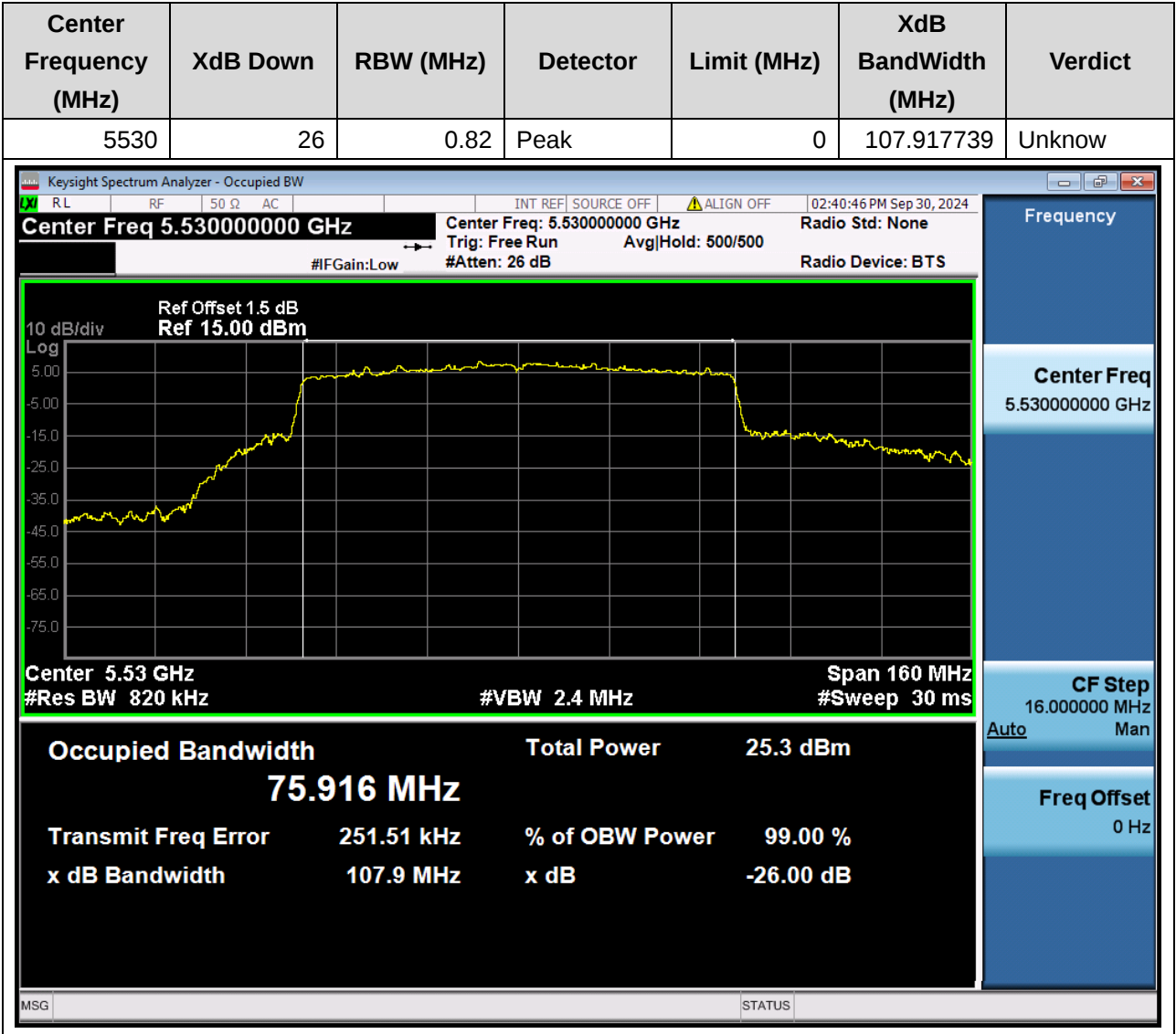
57. 802.11ac_40M_Band3_H_ANT1

57.1 A.2-26dB Bandwidth(NTNV)



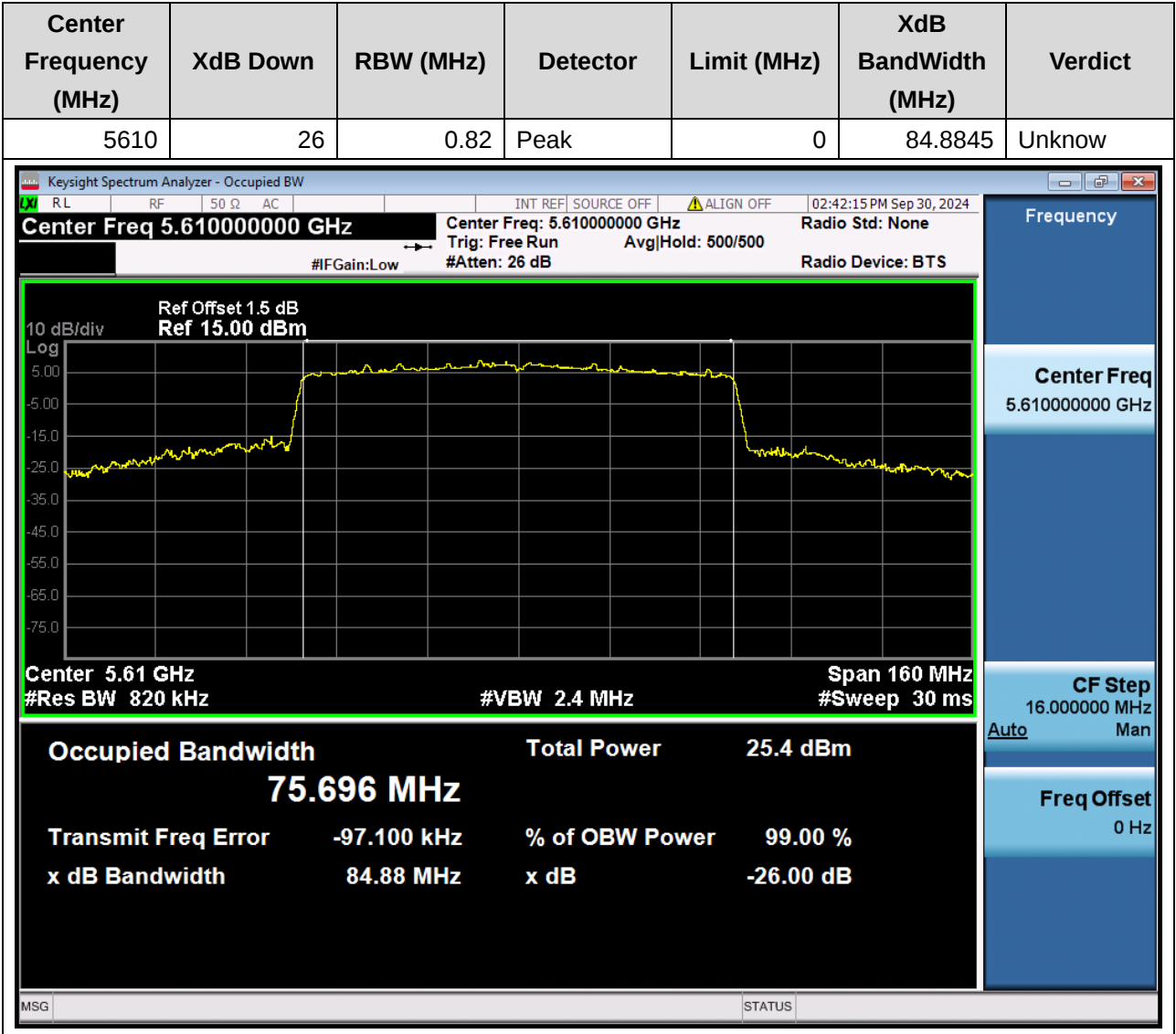
58. 802.11ac_80M_Band3_M_ANT1

58.1 A.2-26dB Bandwidth(NTNV)



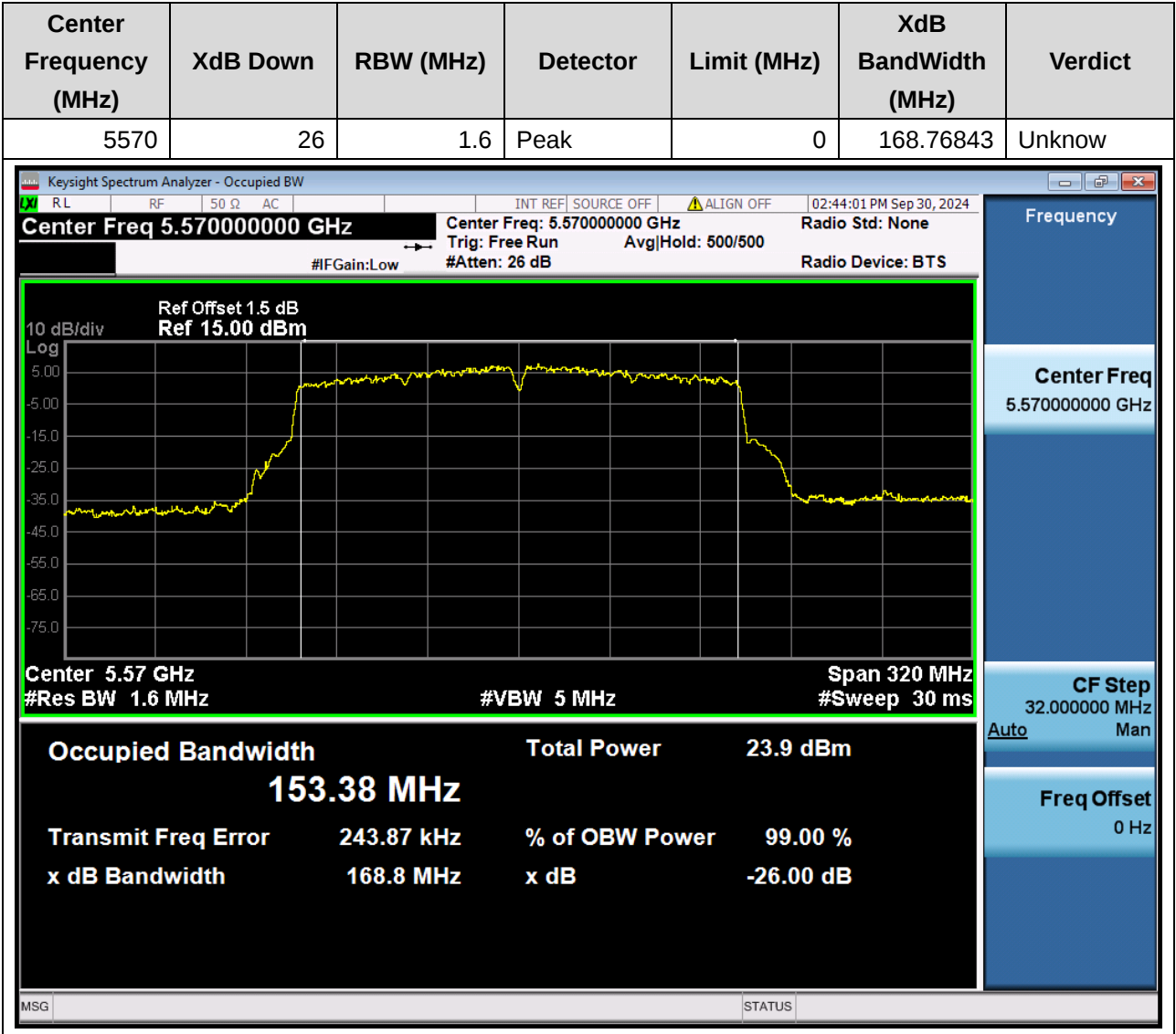
59. 802.11ac_80H_Band3_H_ANT1

59.1 A.2-26dB Bandwidth(NTNV)



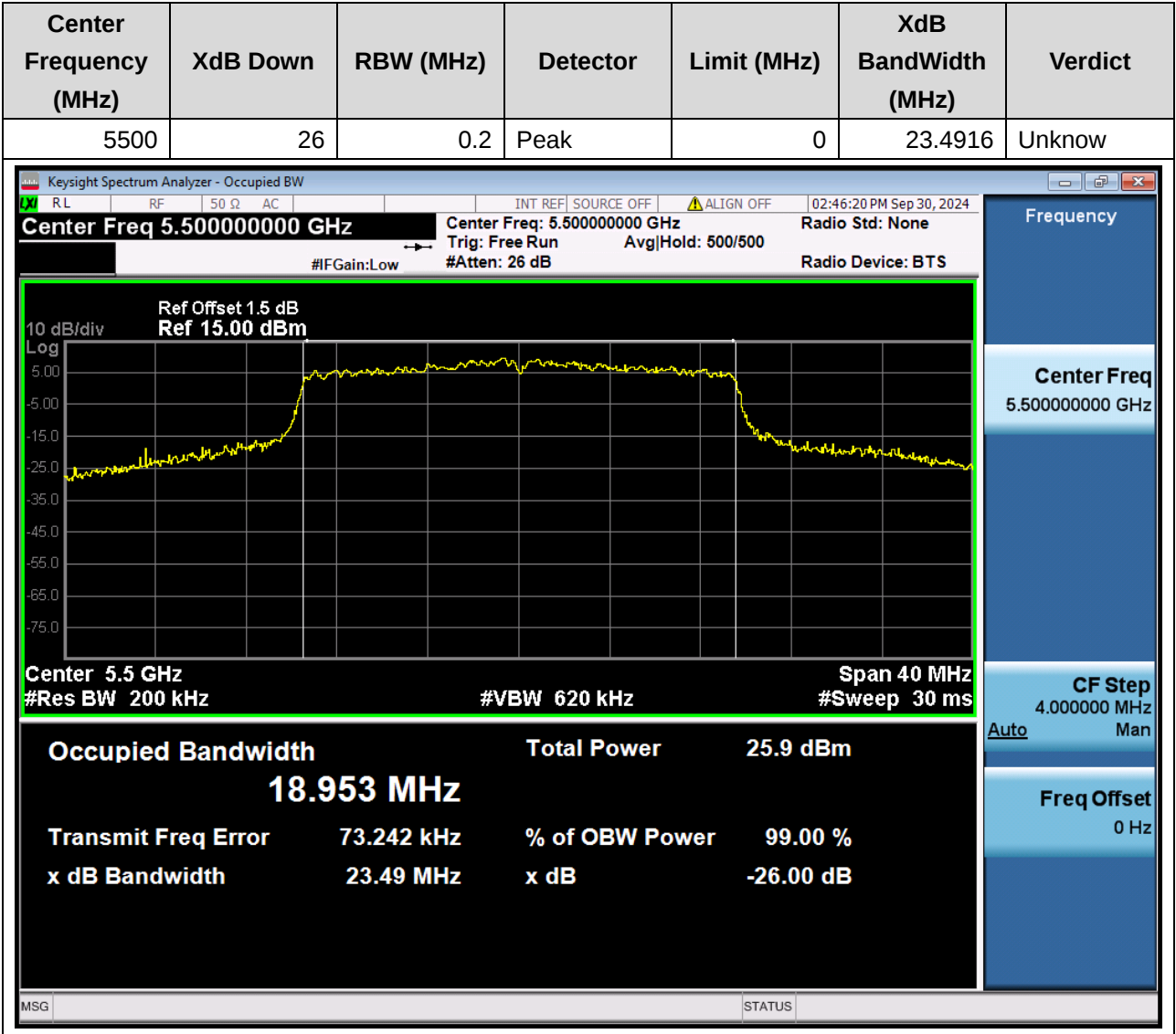
60. 802.11ac_160M_Band3_M_ANT1

60.1 A.2-26dB Bandwidth(NTNV)



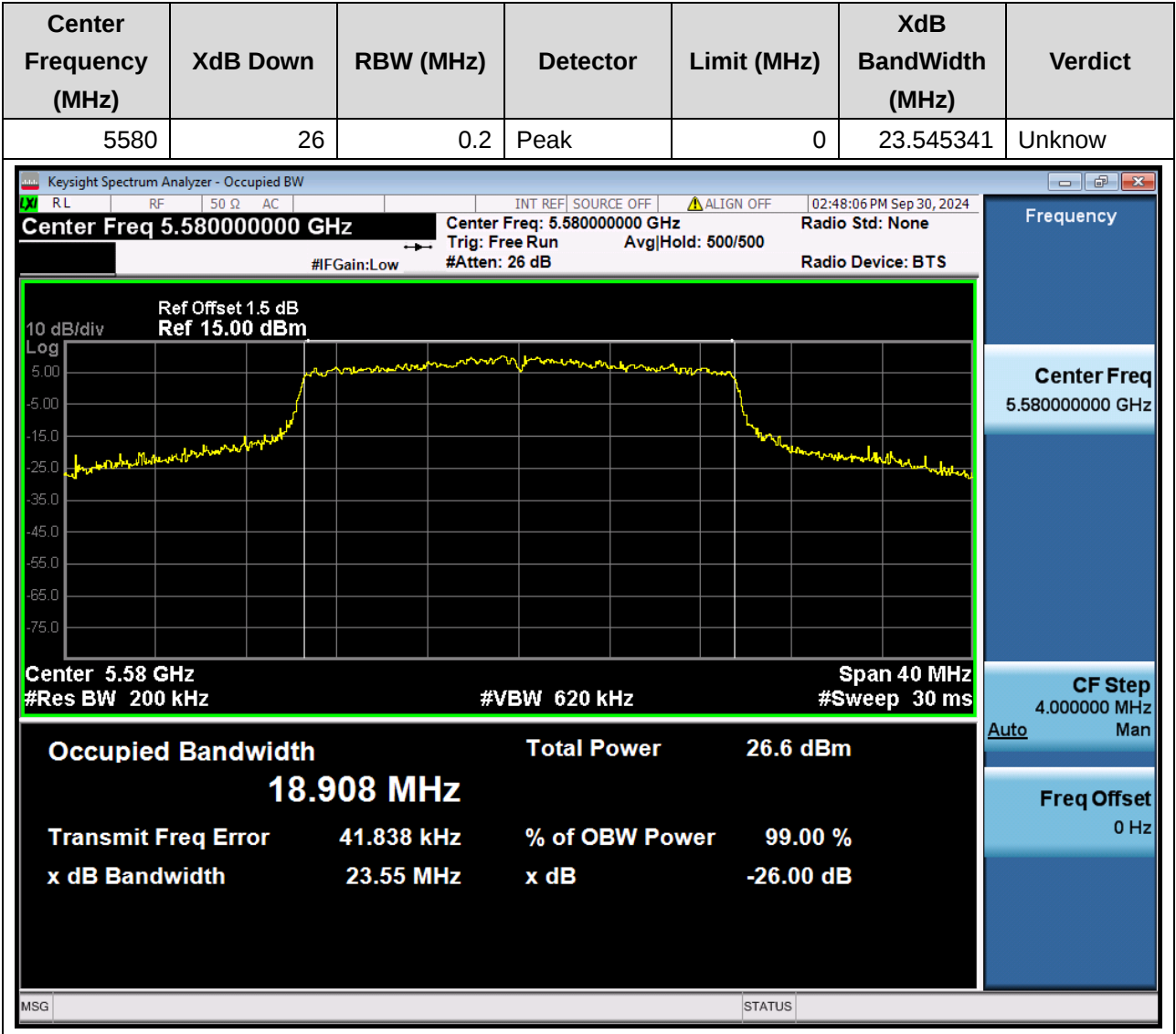
61. 802.11ax_20M_Band3_L_ANT1

61.1 A.2-26dB Bandwidth(NTNV)



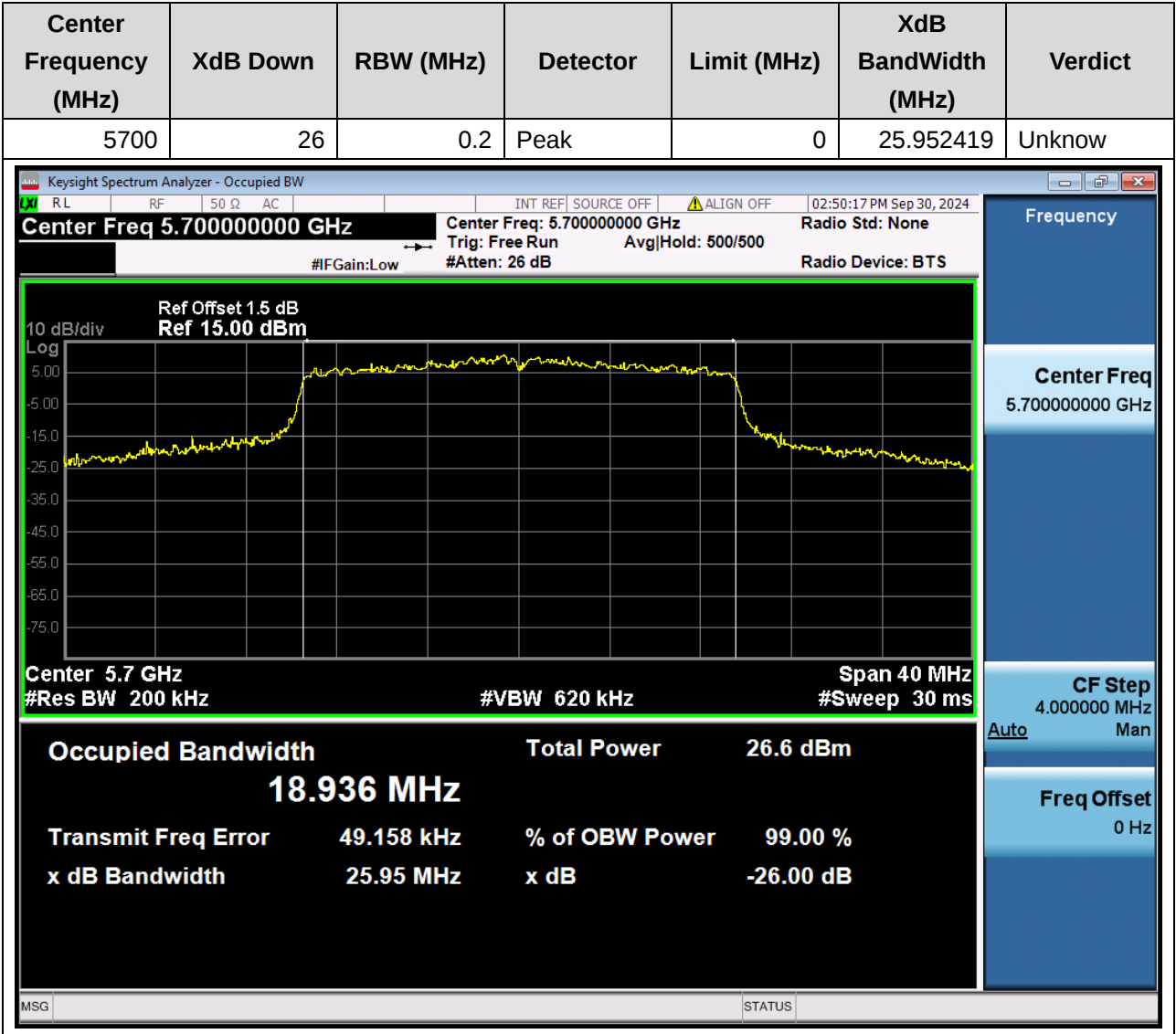
62. 802.11ax_20M_Band3_M_ANT1

62.1 A.2-26dB Bandwidth(NTNV)



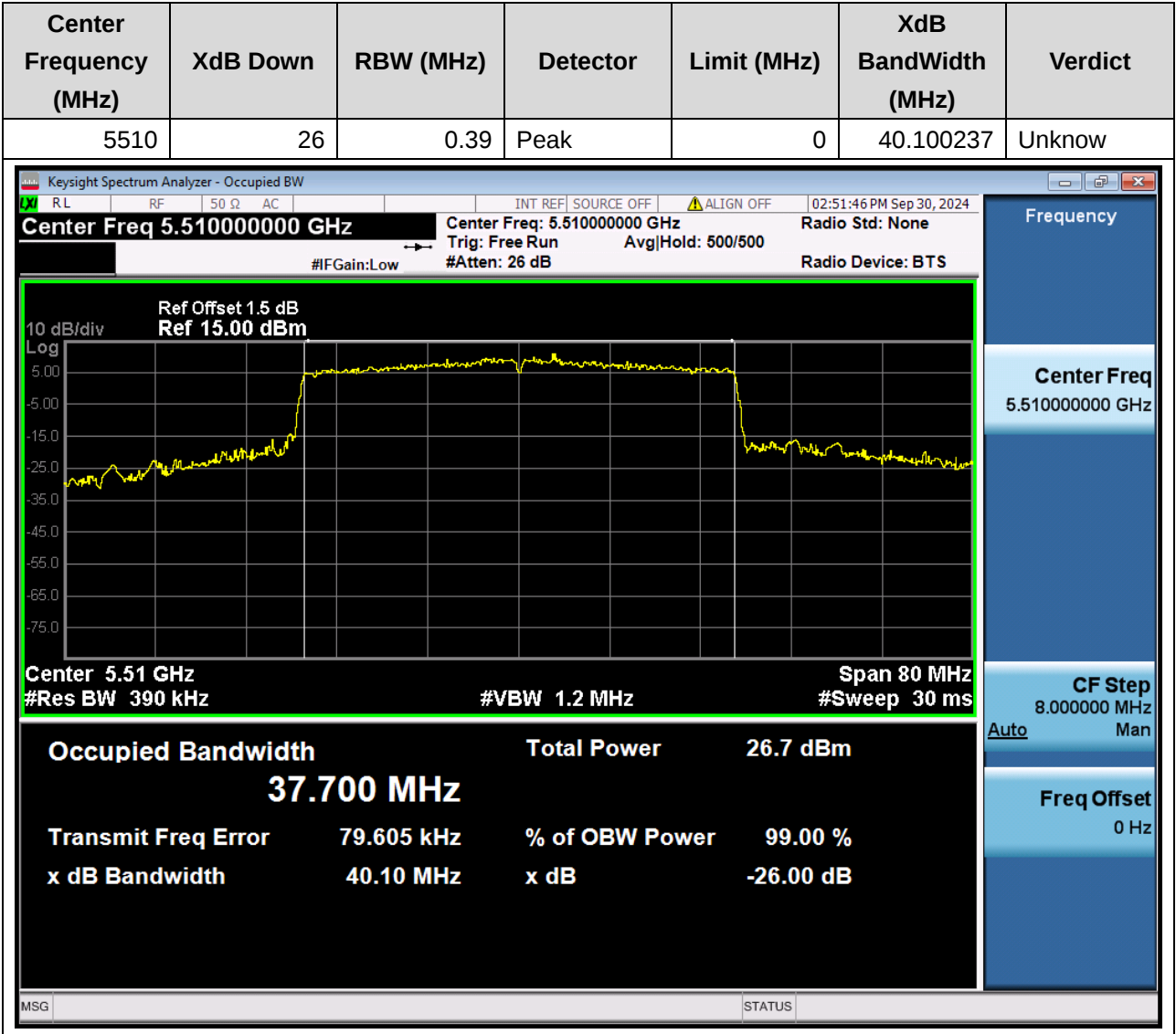
63. 802.11ax_20M_Band3_H_ANT1

63.1 A.2-26dB Bandwidth(NTNV)



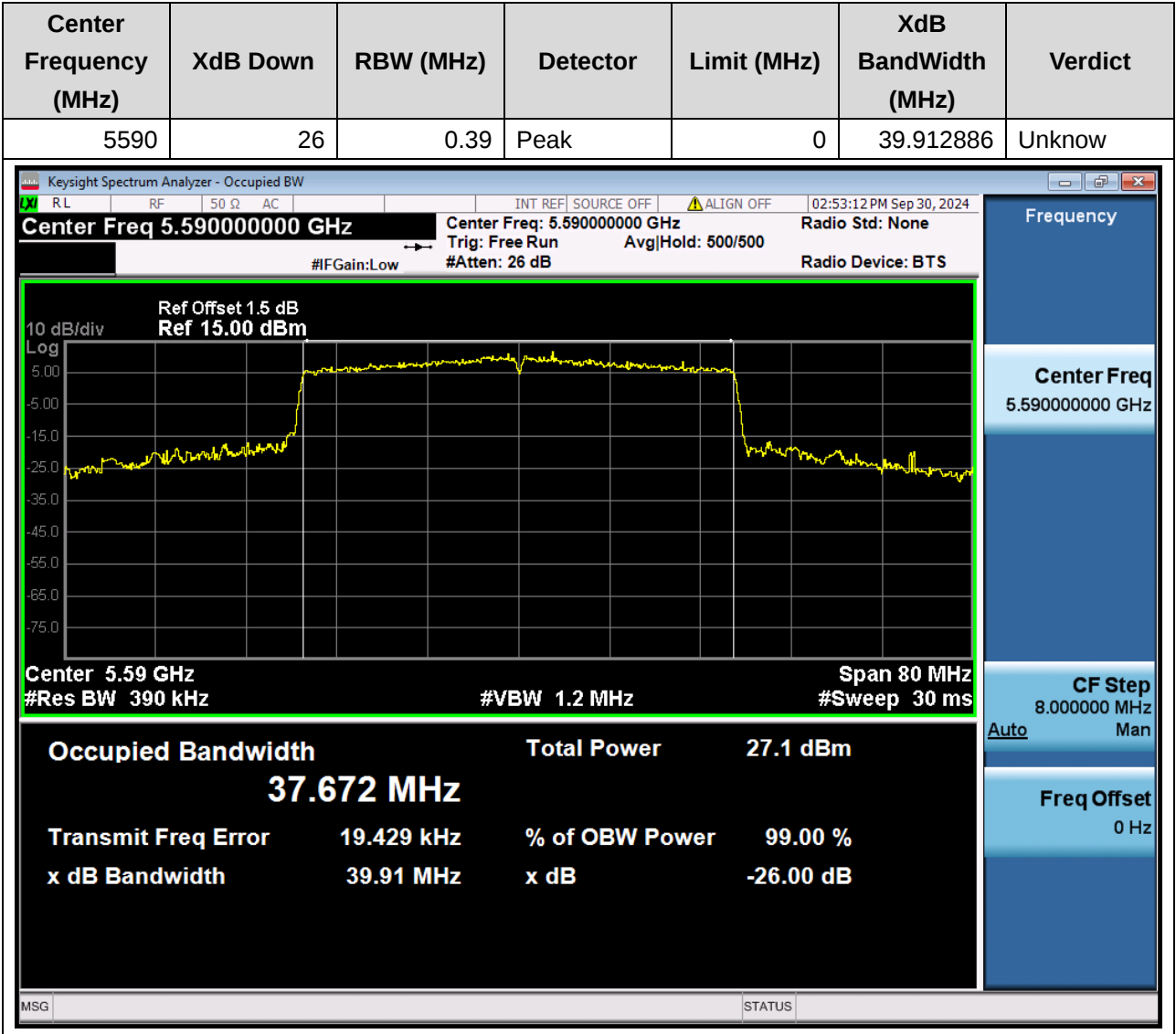
64. 802.11ax_40M_Band3_L_ANT1

64.1 A.2-26dB Bandwidth(NTNV)



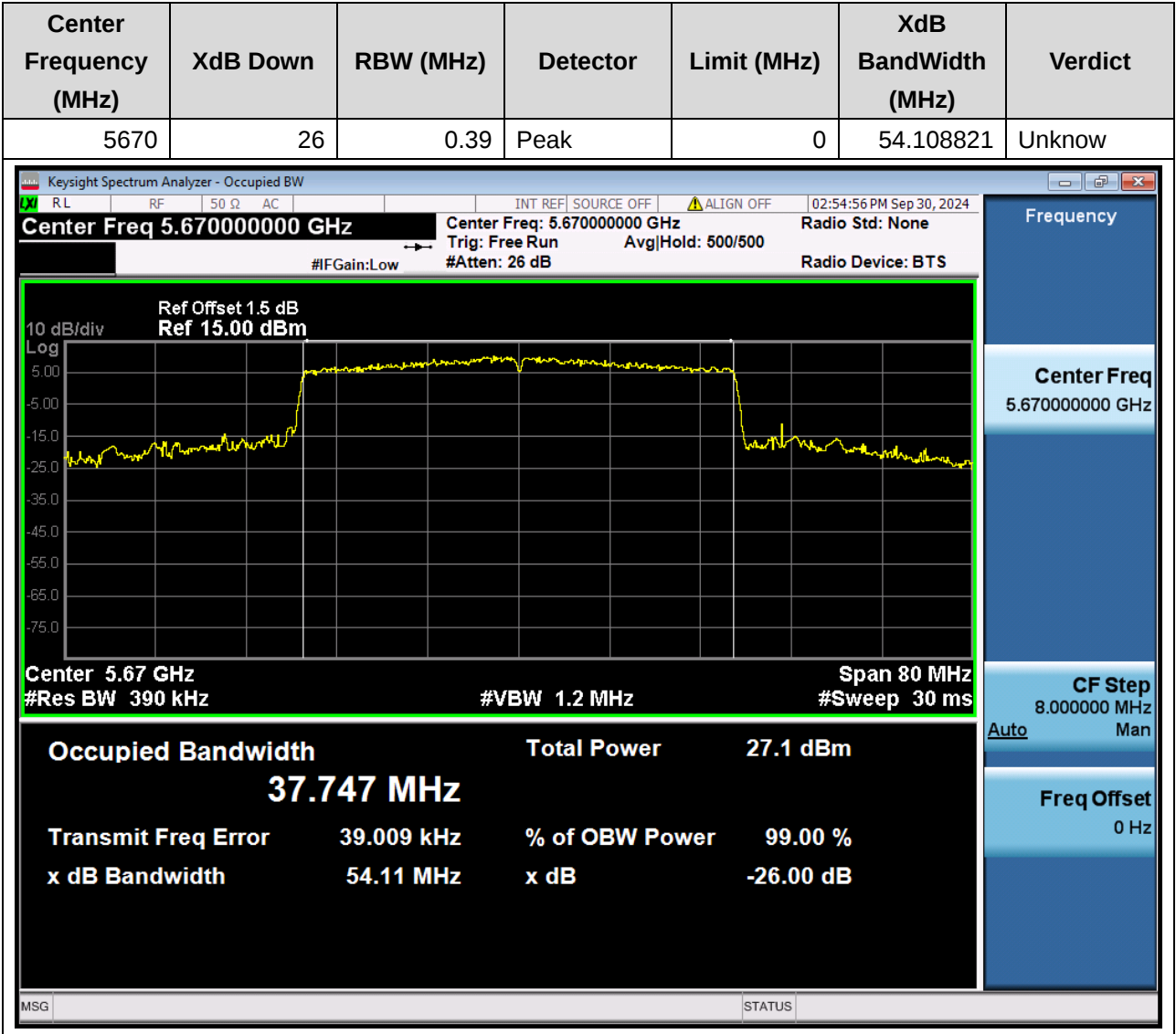
65. 802.11ax_40M_Band3_M_ANT1

65.1 A.2-26dB Bandwidth(NTNV)



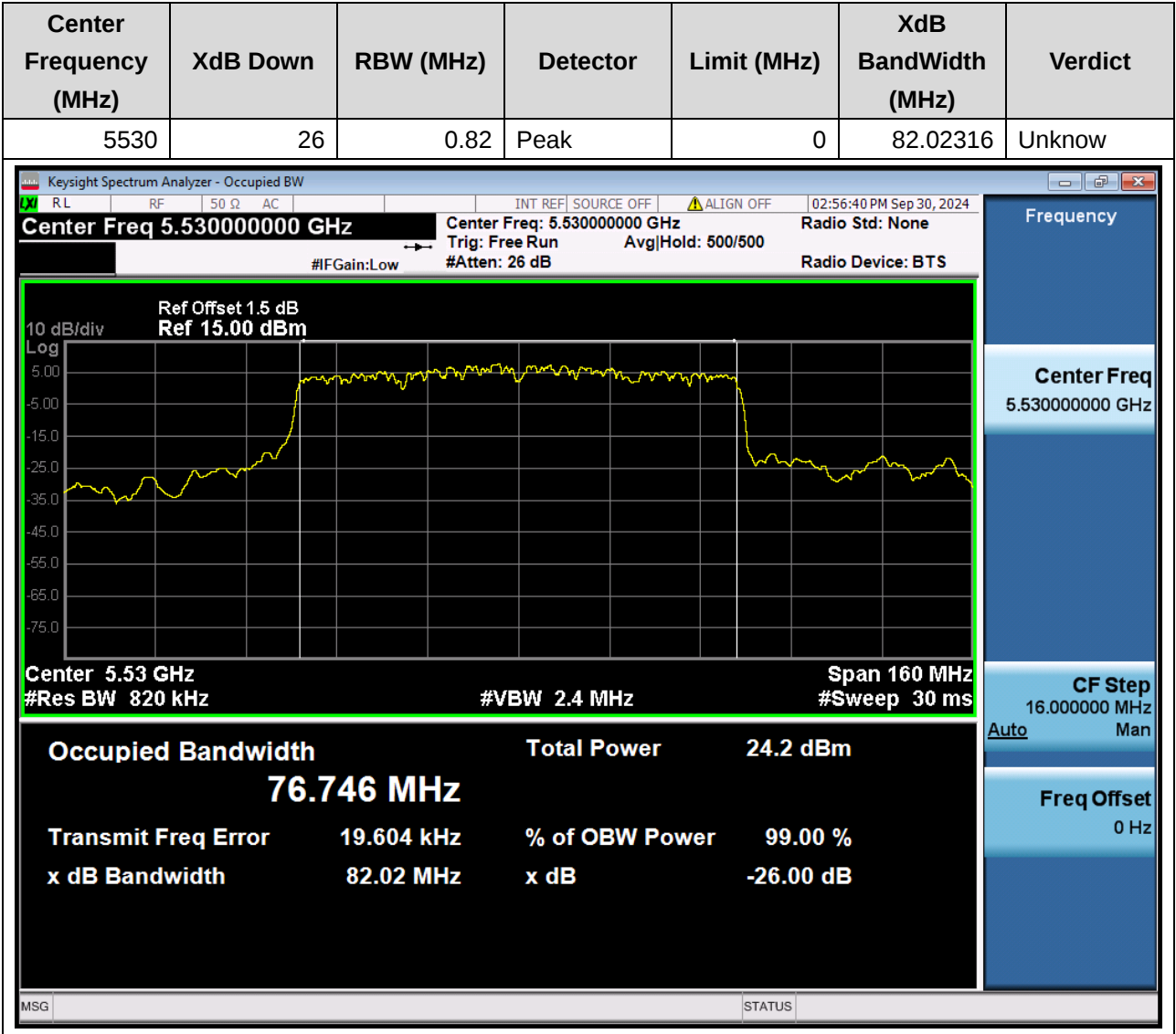
66. 802.11ax_40M_Band3_H_ANT1

66.1 A.2-26dB Bandwidth(NTNV)



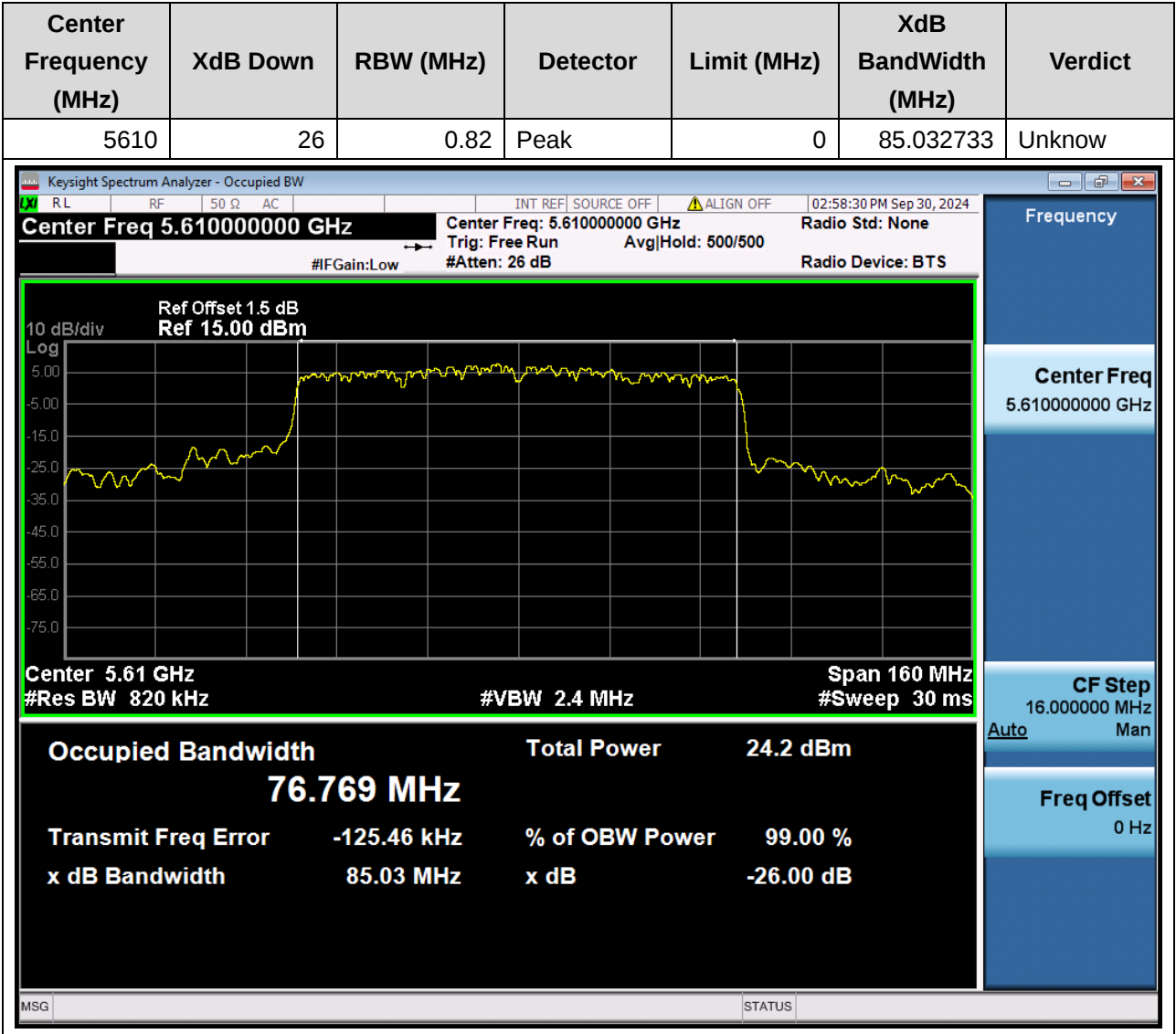
67. 802.11ax_80M_Band3_M_ANT1

67.1 A.2-26dB Bandwidth(NTNV)



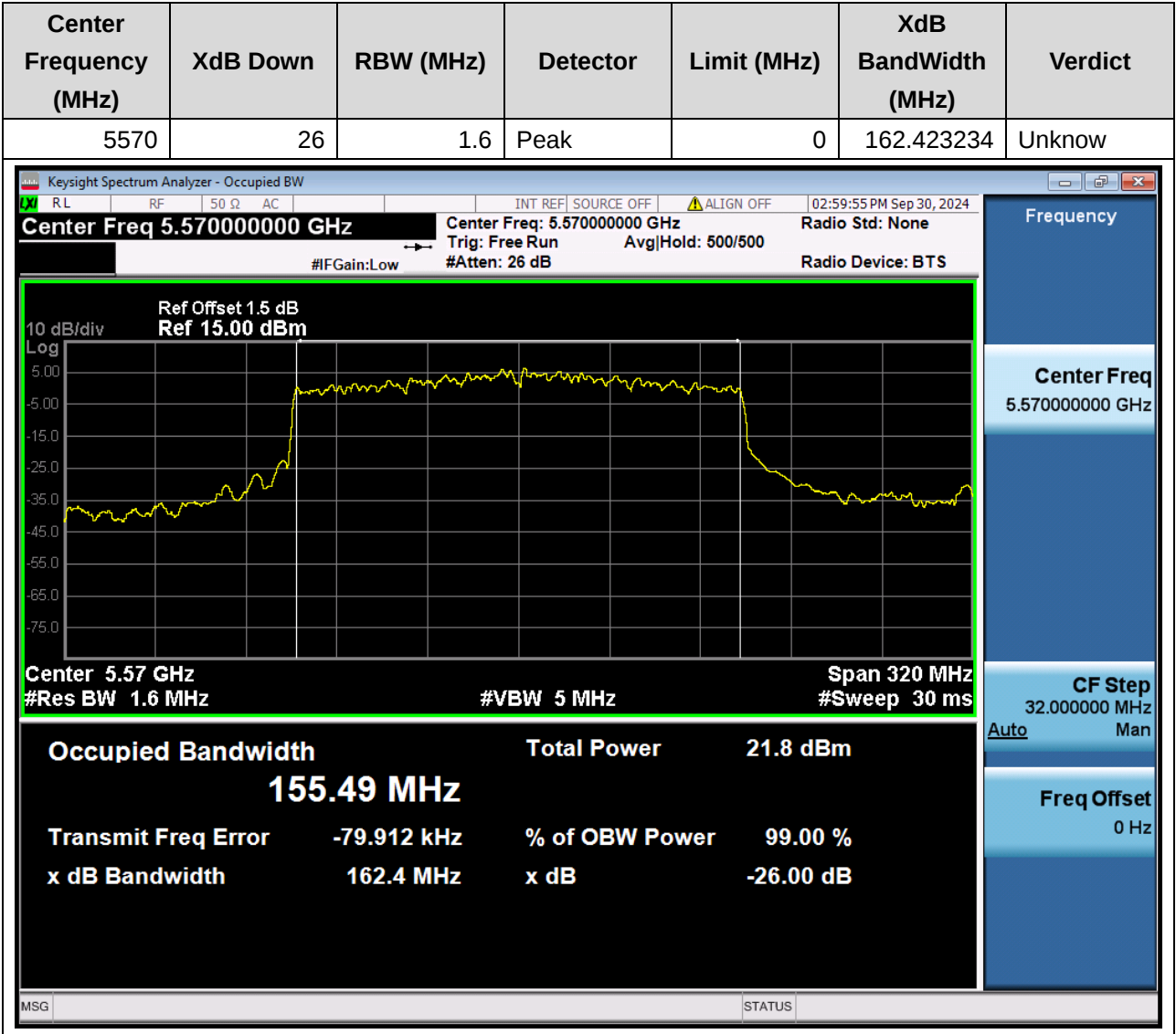
68. 802.11ax_80H_Band3_H_ANT1

68.1 A.2-26dB Bandwidth(NTNV)



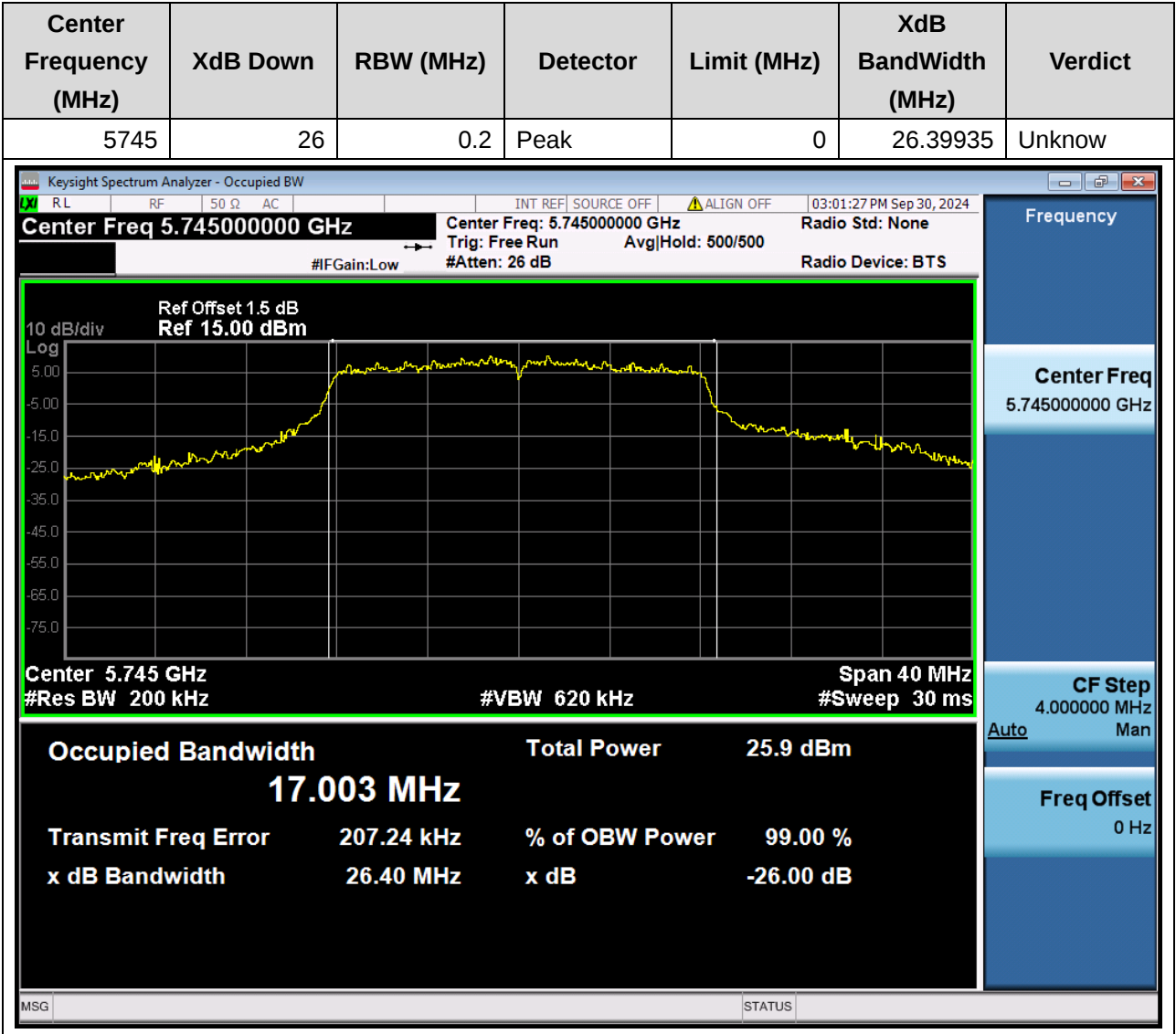
69. 802.11ax_160M_Band3_M_ANT1

69.1 A.2-26dB Bandwidth(NTNV)



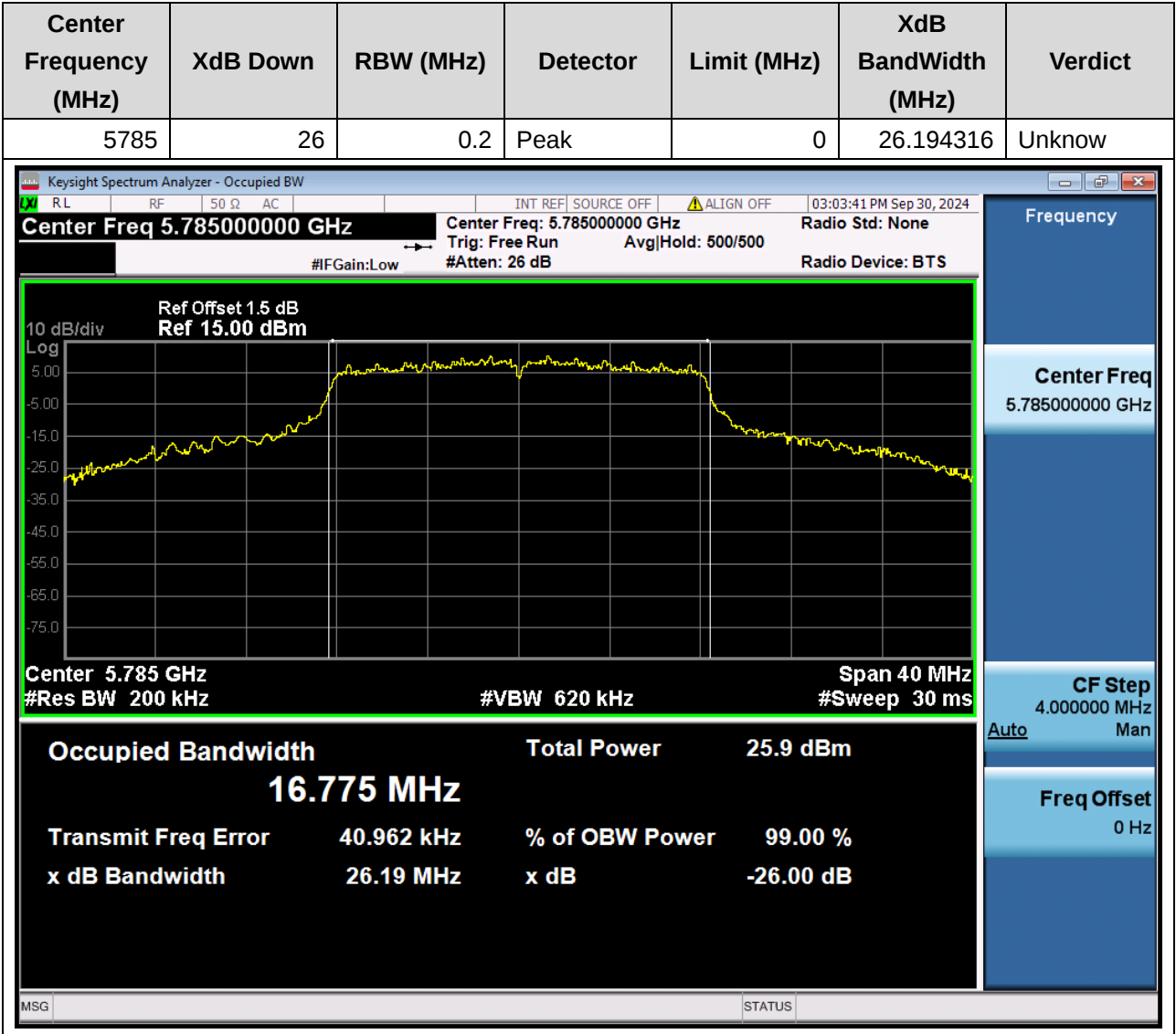
70. 802.11a_20M_Band4_L

70.1 A.2-26dB Bandwidth(NTNV)



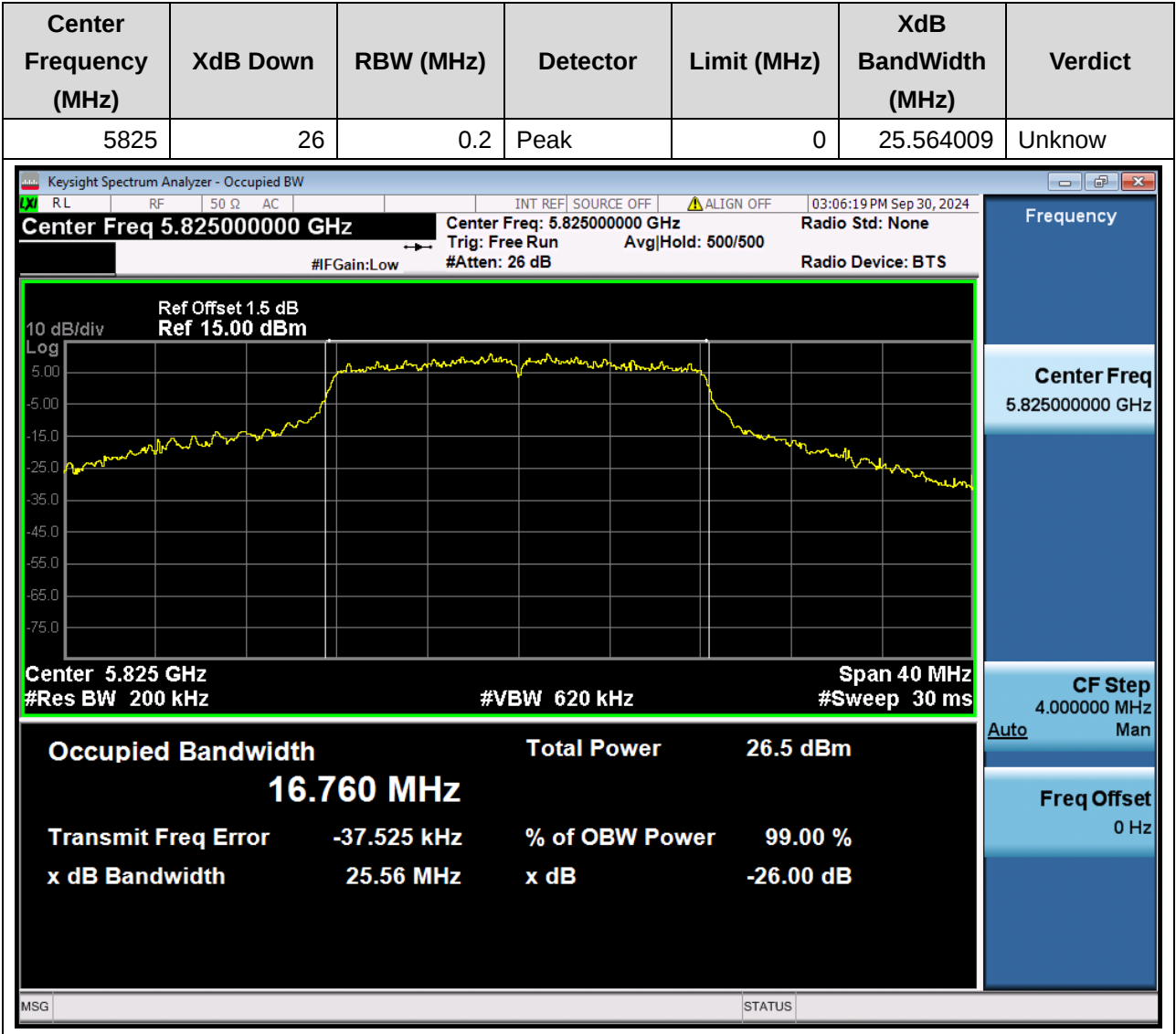
71. 802.11a_20M_Band4_M

71.1 A.2-26dB Bandwidth(NTNV)



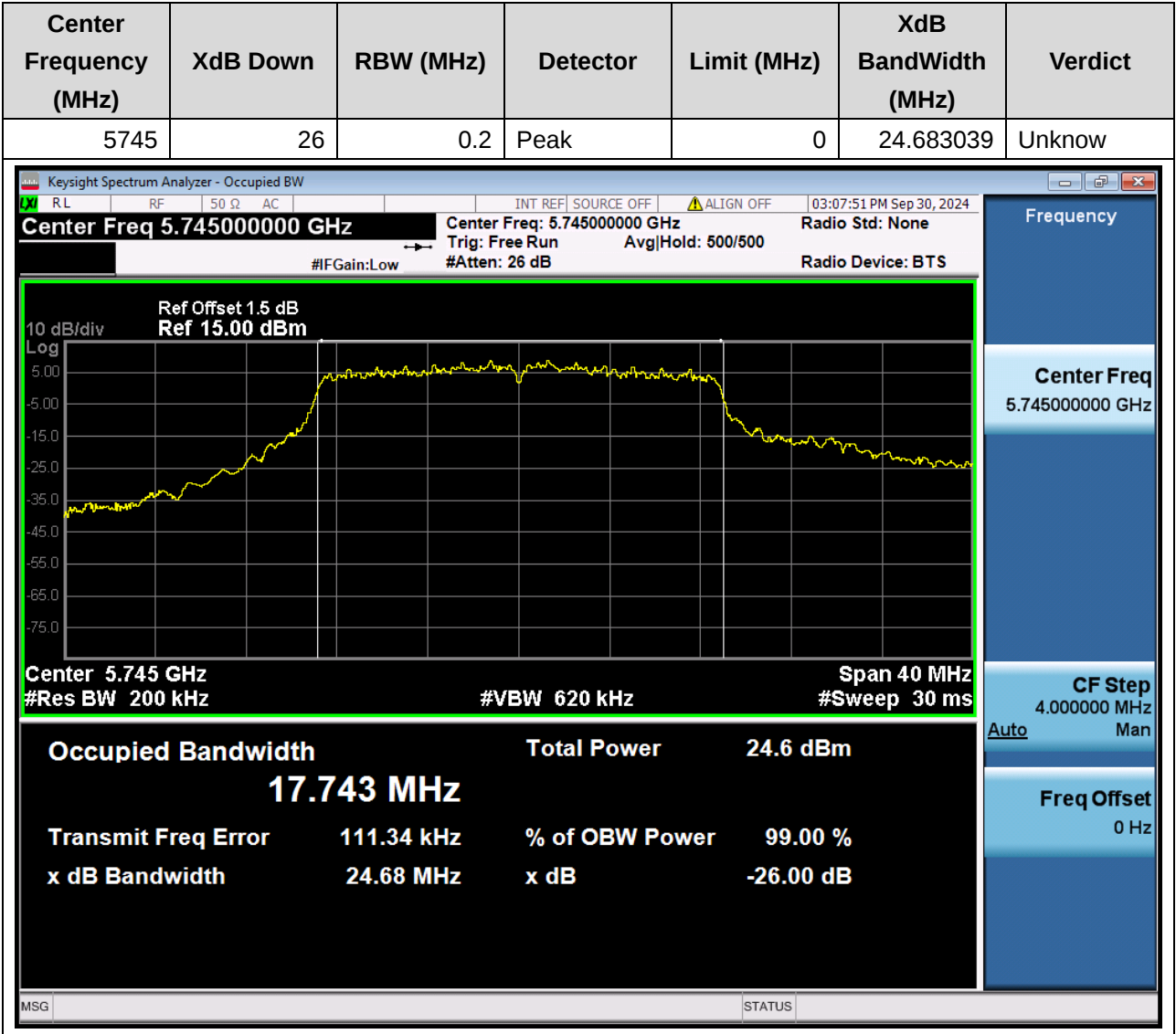
72. 802.11a_20M_Band4_H

72.1 A.2-26dB Bandwidth(NTNV)



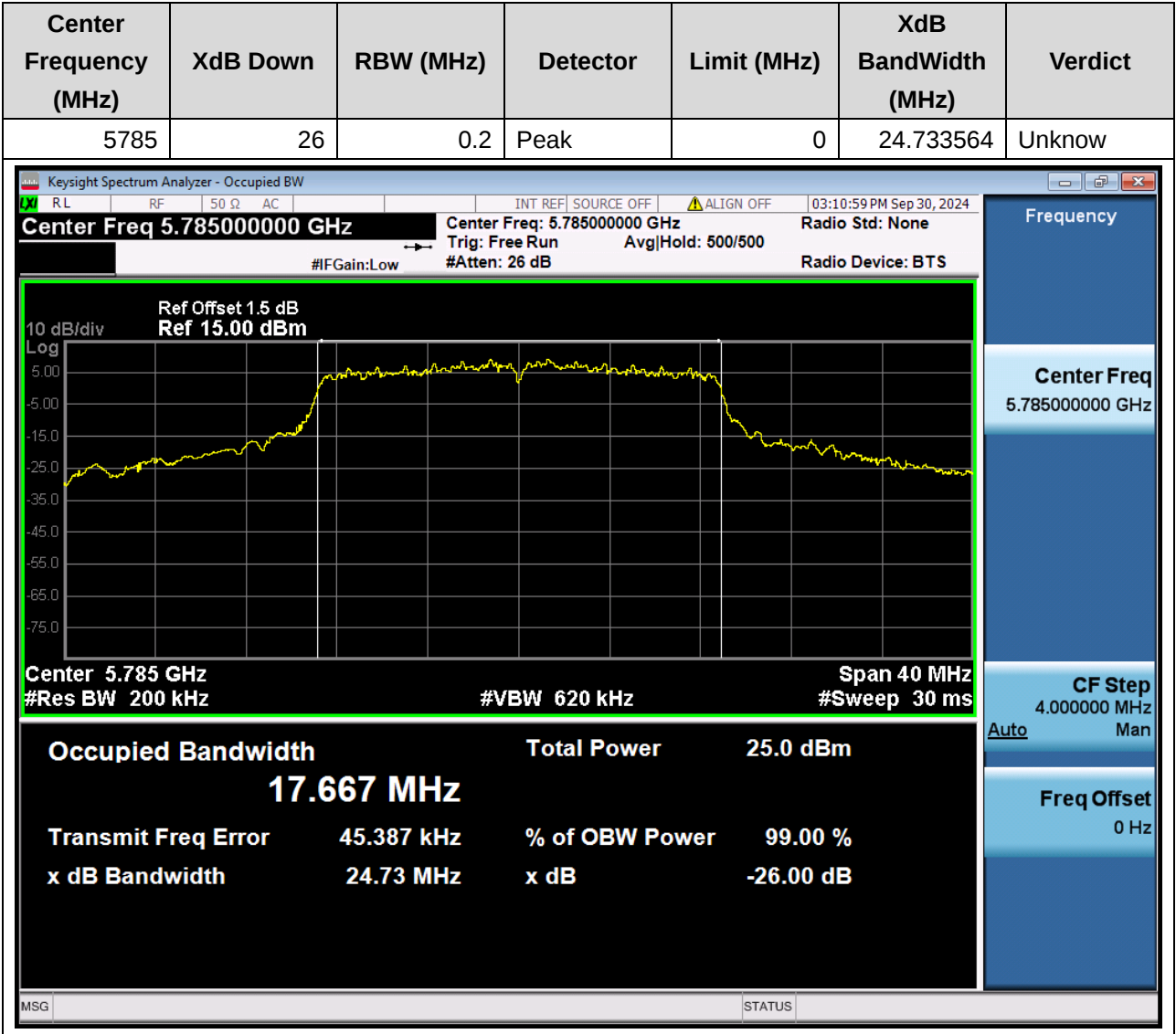
73. 802.11n_20M_Band4_L

73.1 A.2-26dB Bandwidth(NTNV)



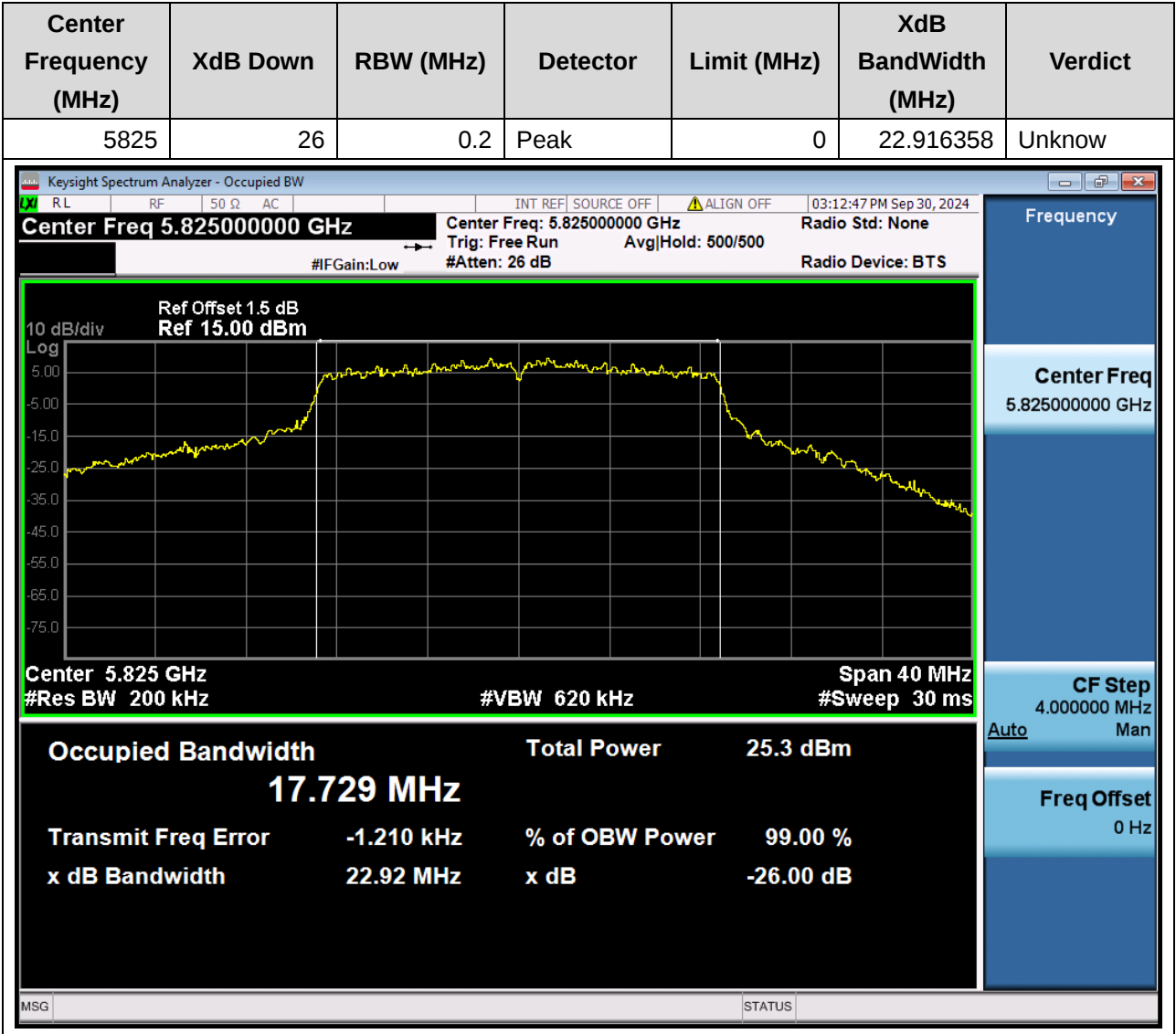
74. 802.11n_20M_Band4_M

74.1 A.2-26dB Bandwidth(NTNV)



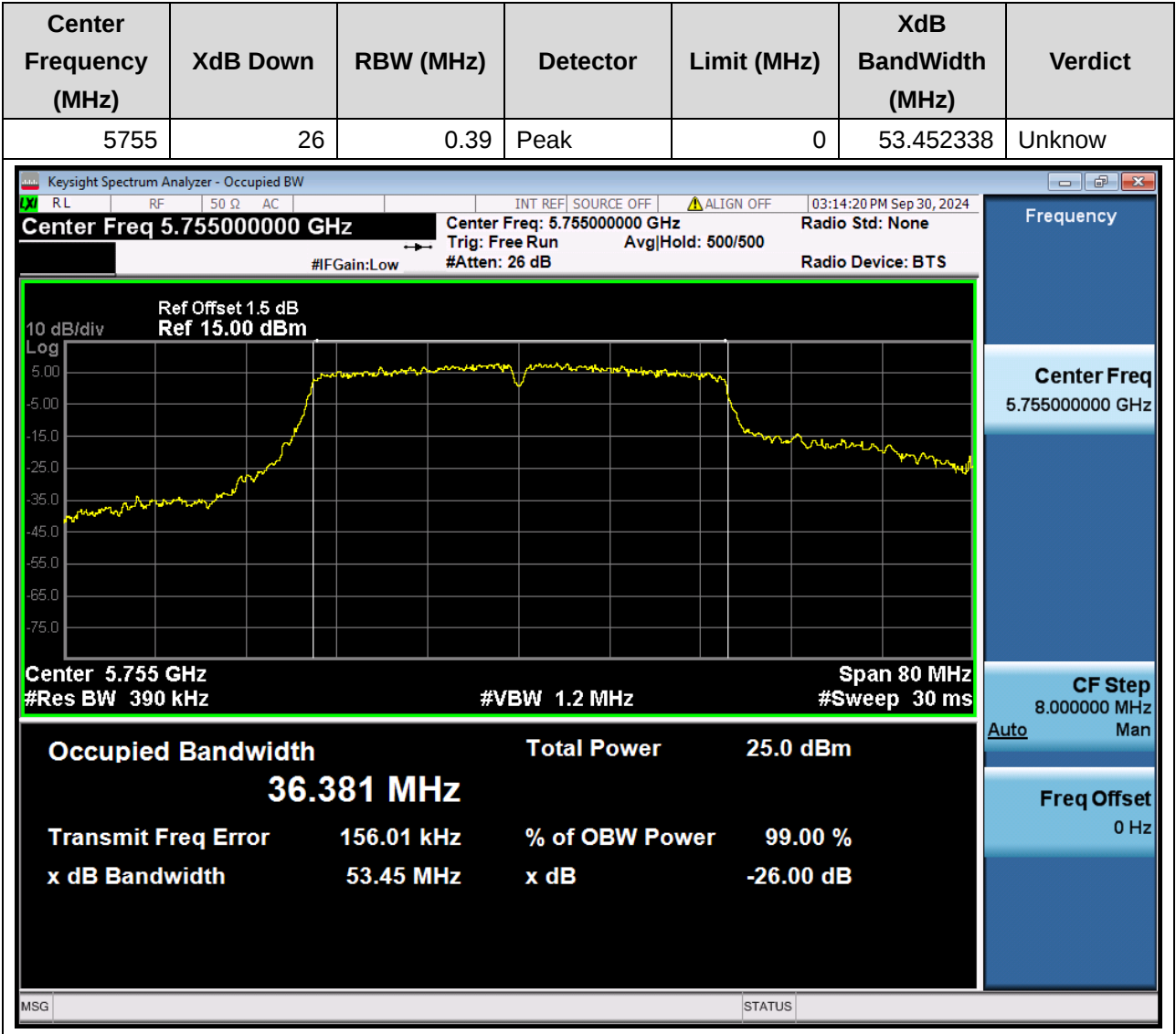
75. 802.11n_20M_Band4_H

75.1 A.2-26dB Bandwidth(NTNV)



76. 802.11n_40M_Band4_L

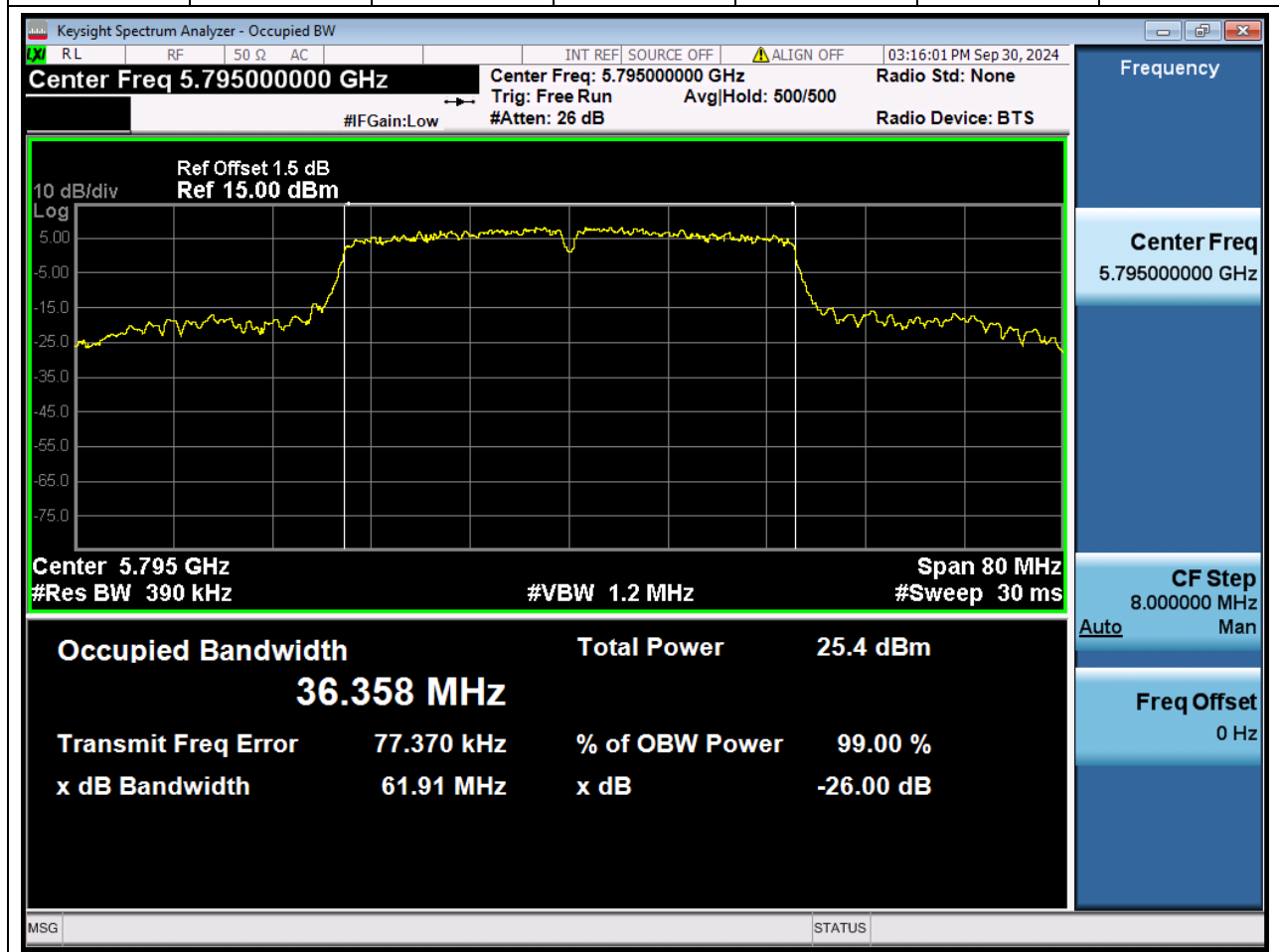
76.1 A.2-26dB Bandwidth(NTNV)



77. 802.11n_40M_Band4_H

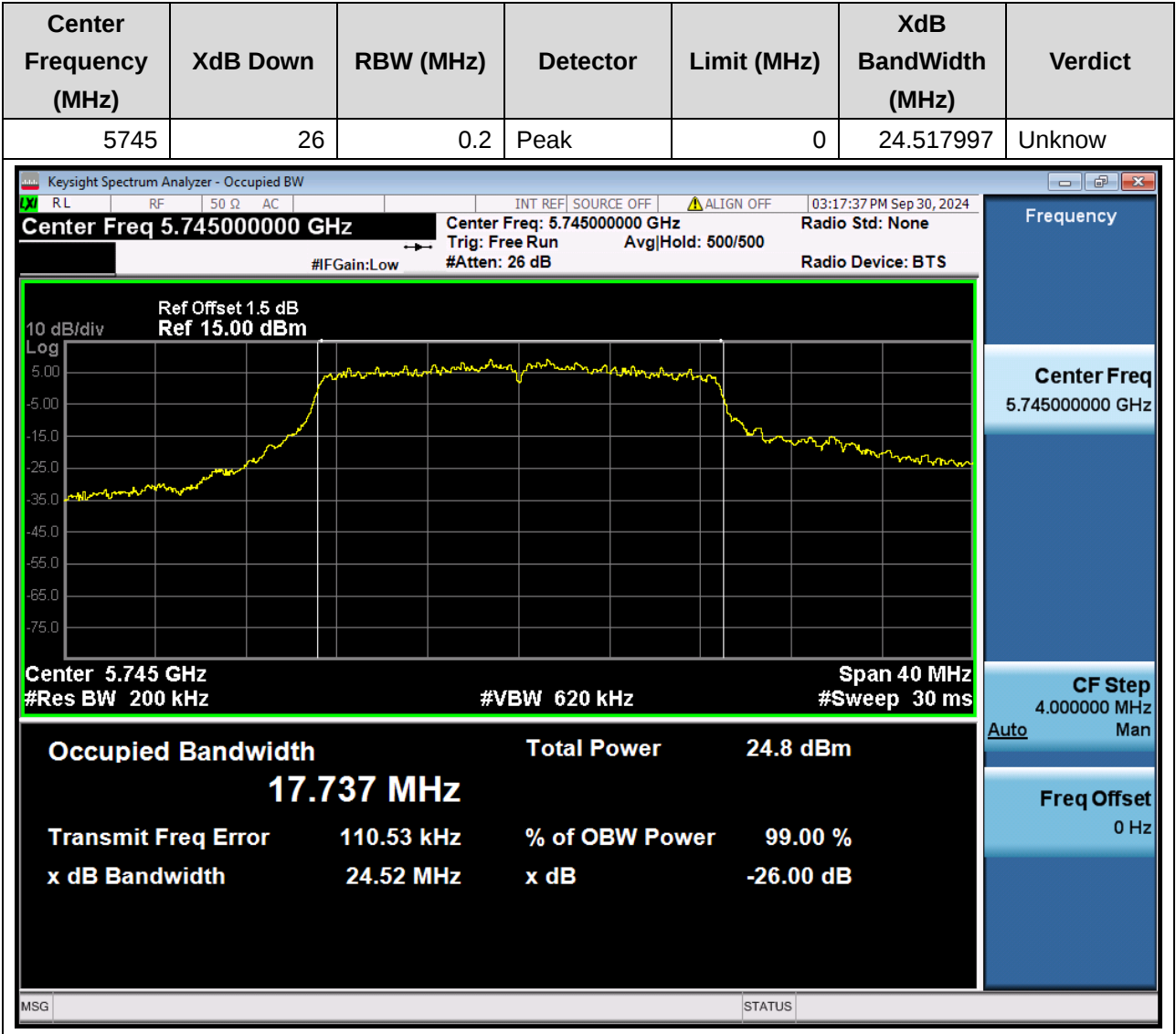
77.1 A.2-26dB Bandwidth(NTNV)

Center Frequency (MHz)	XdB Down	RBW (MHz)	Detector	Limit (MHz)	XdB BandWidth (MHz)	Verdict
5795	26	0.39	Peak	0	61.908772	Unknow



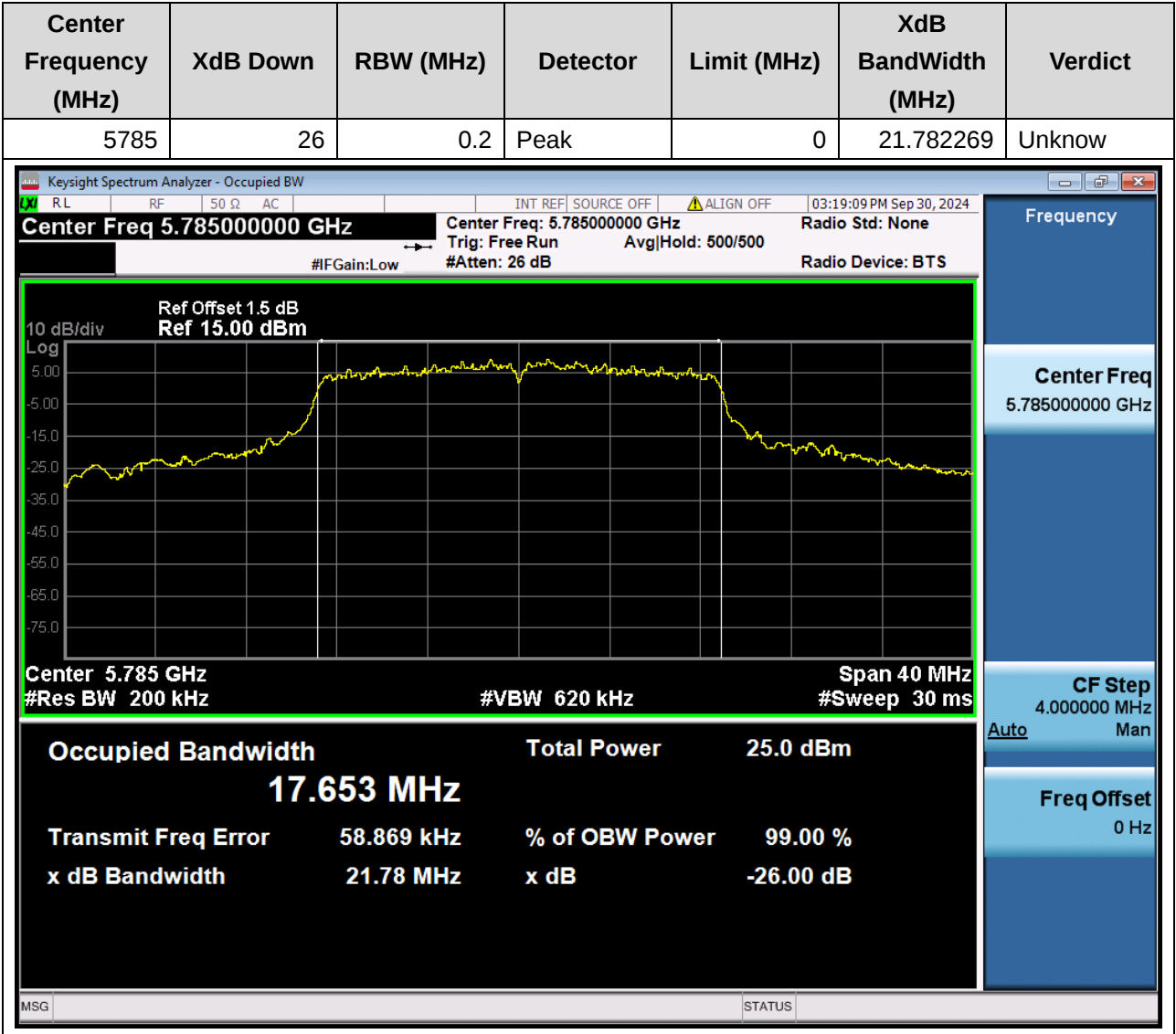
78. 802.11ac_20M_Band4_L

78.1 A.2-26dB Bandwidth(NTNV)



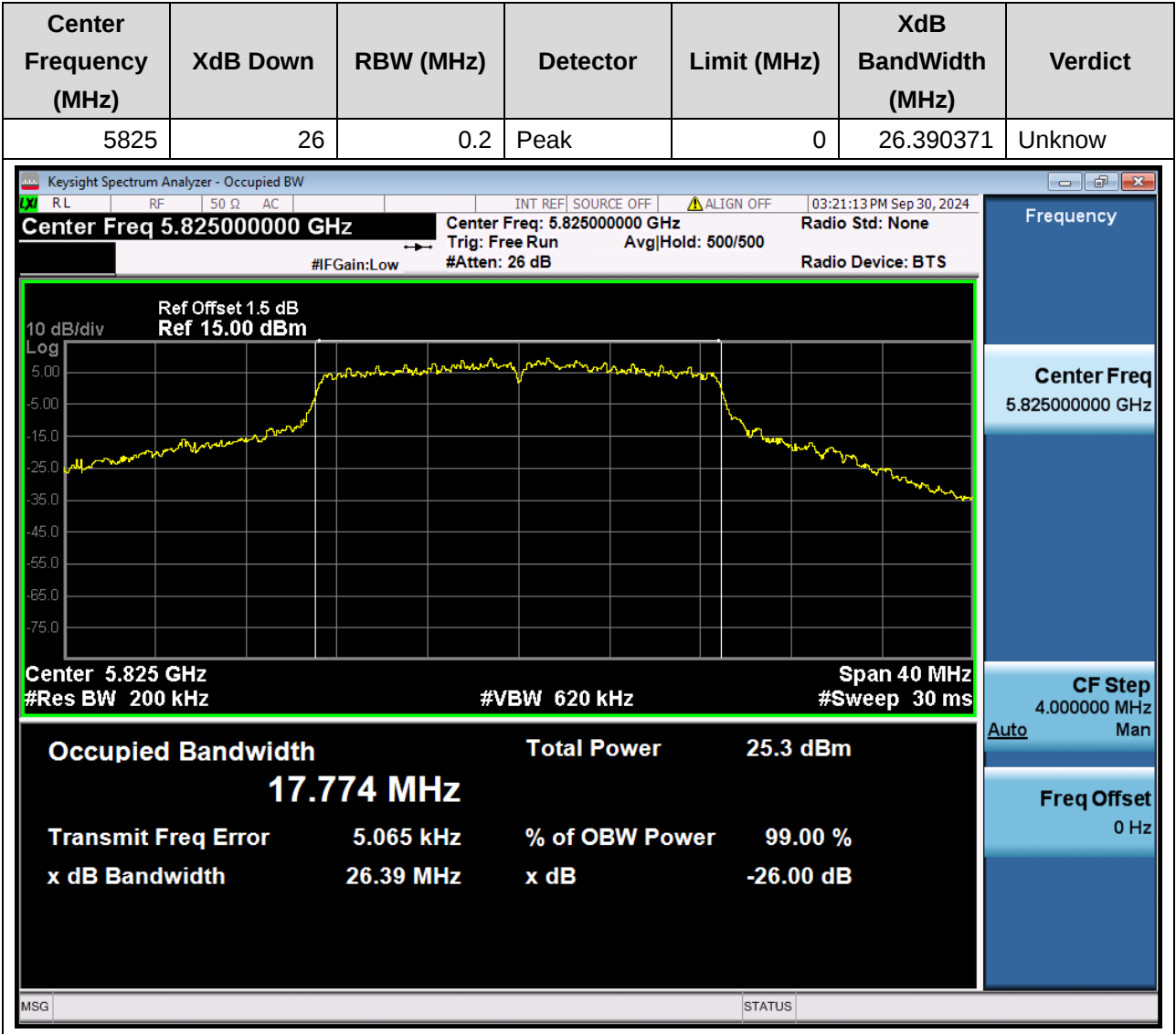
79. 802.11ac_20M_Band4_M

79.1 A.2-26dB Bandwidth(NTNV)



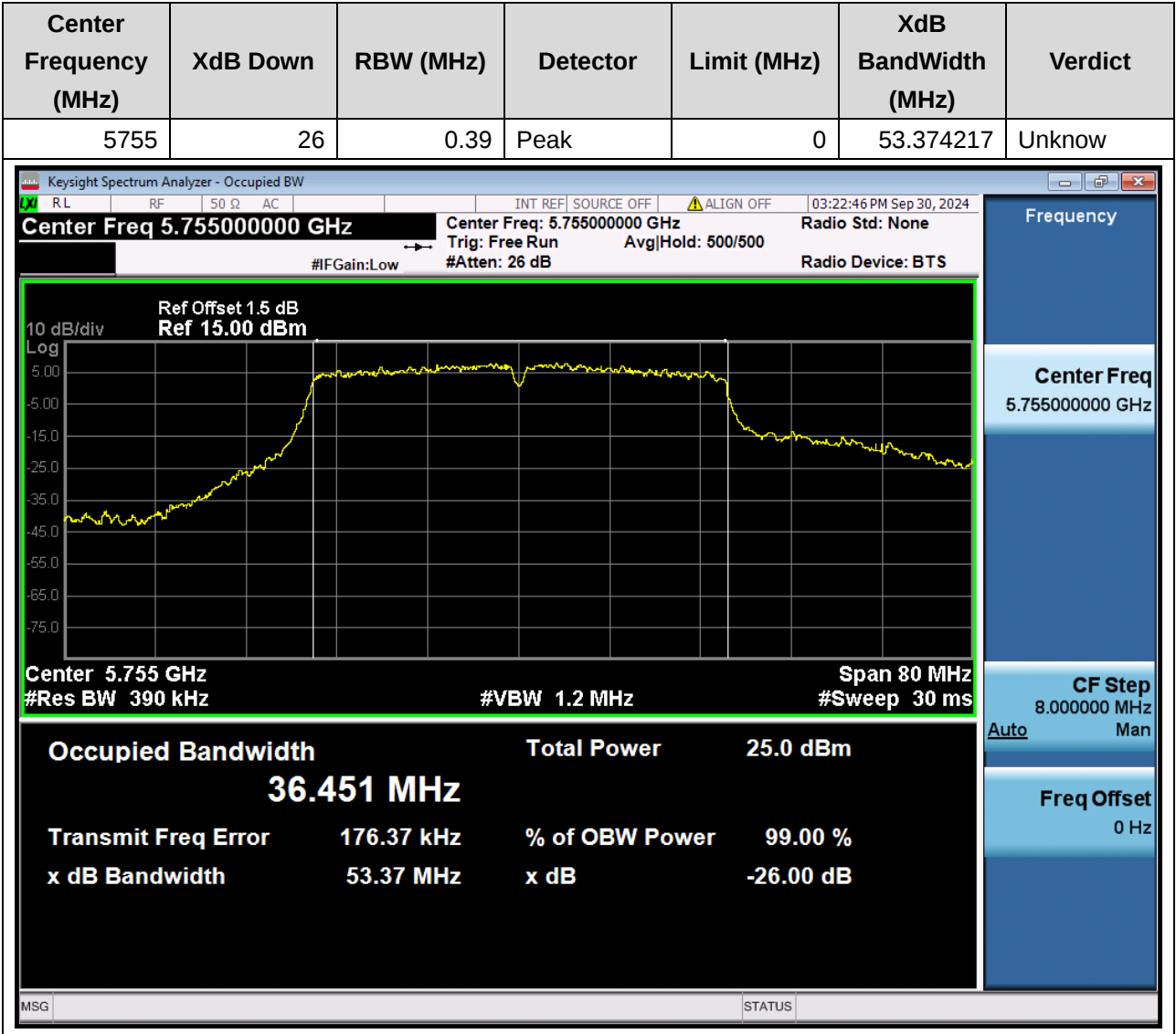
80. 802.11ac_20M_Band4_H

80.1 A.2-26dB Bandwidth(NTNV)



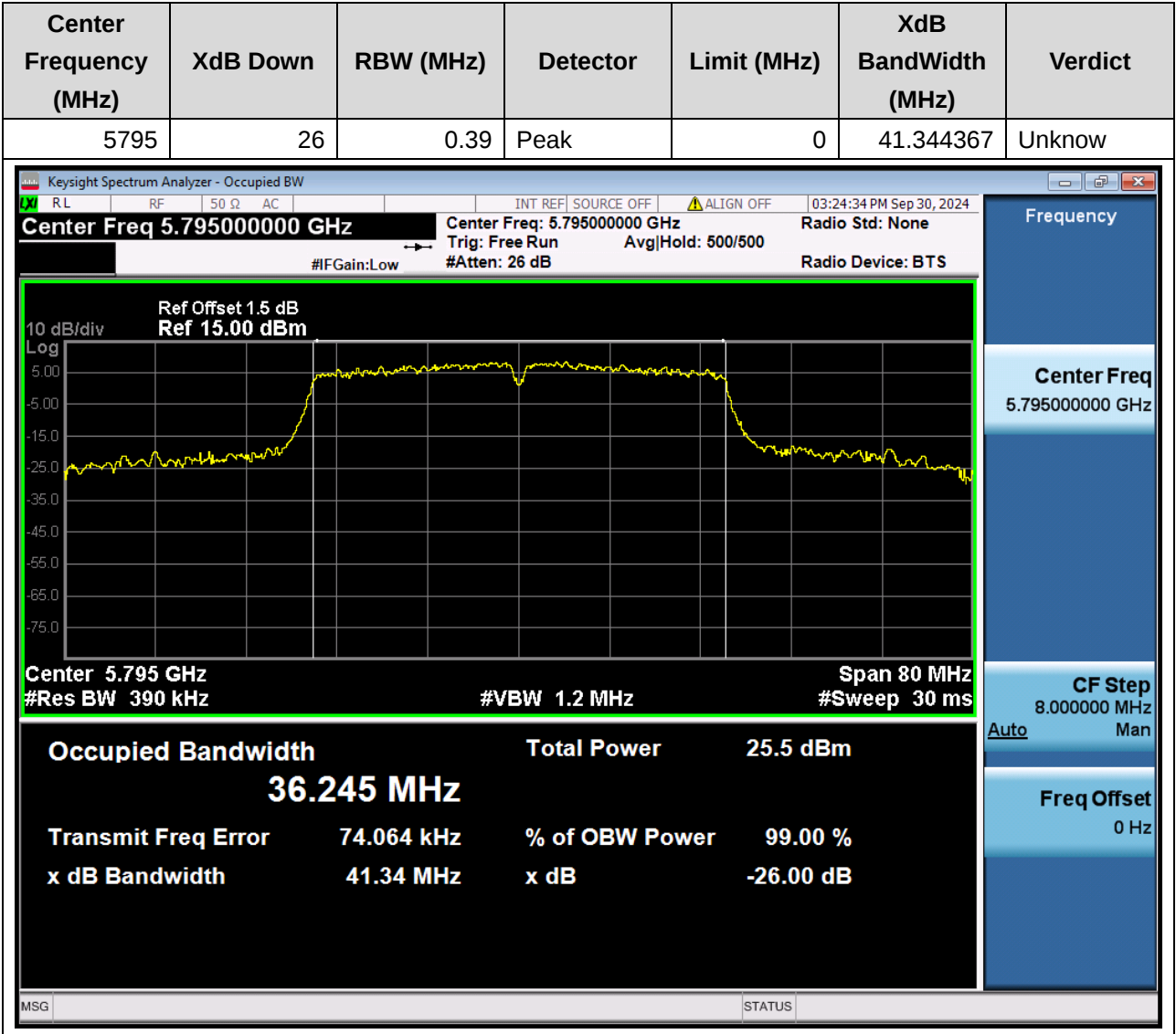
81. 802.11ac_40M_Band4_L

81.1 A.2-26dB Bandwidth(NTNV)



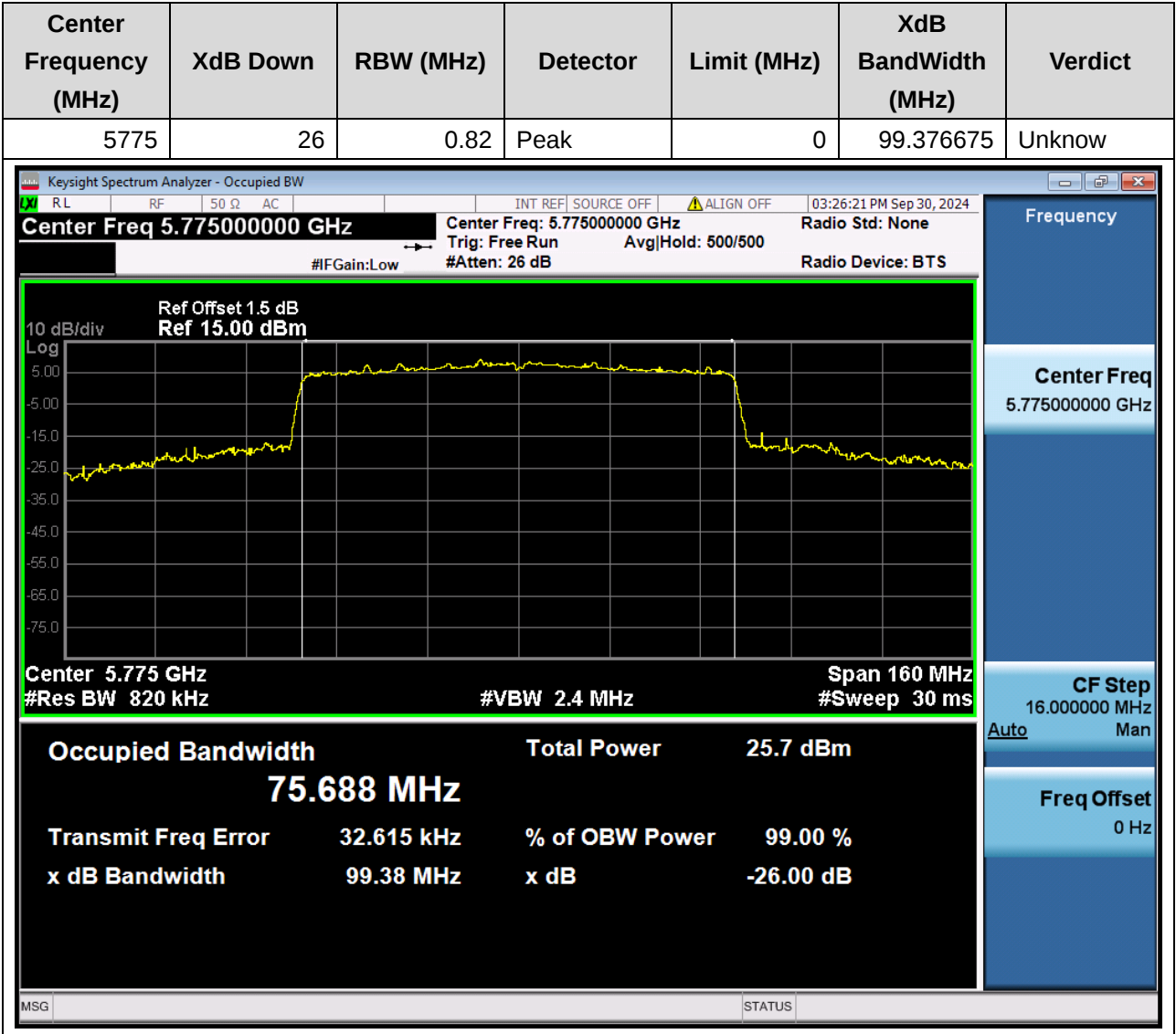
82. 802.11ac_40M_Band4_H

82.1 A.2-26dB Bandwidth(NTNV)



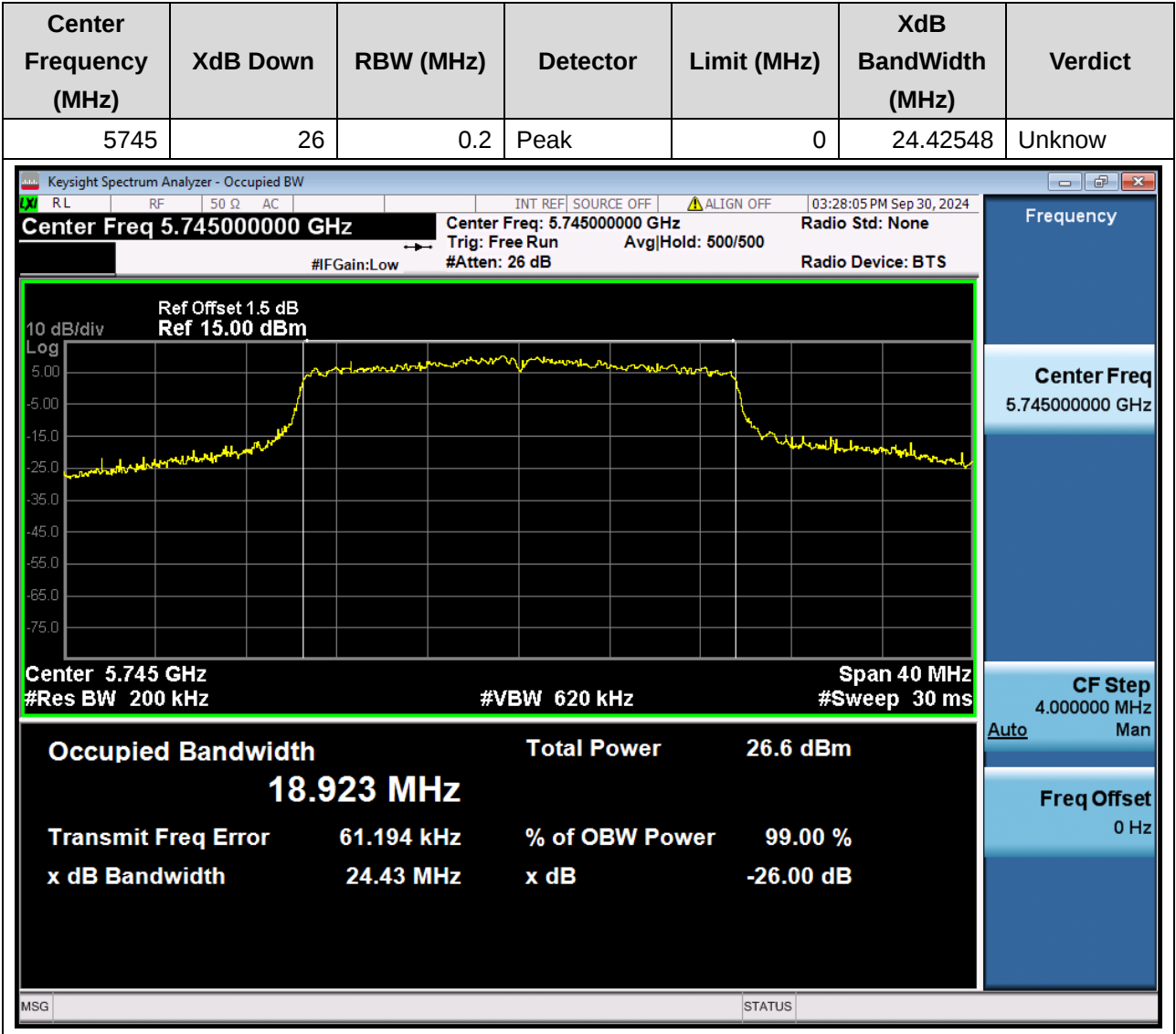
83. 802.11ac_80M_Band4_M

83.1 A.2-26dB Bandwidth(NTNV)



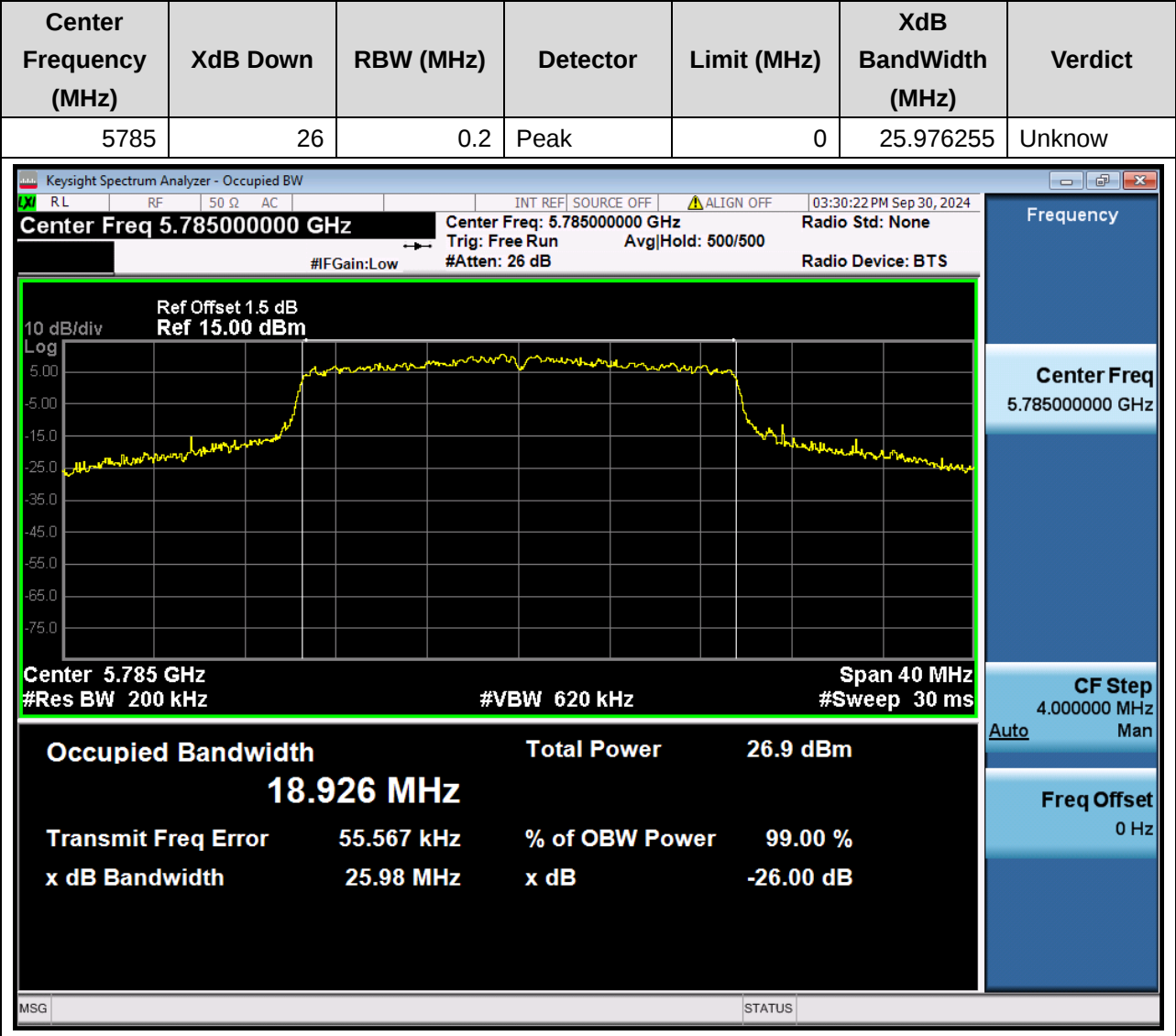
84. 802.11ax_20M_Band4_L

84.1 A.2-26dB Bandwidth(NTNV)



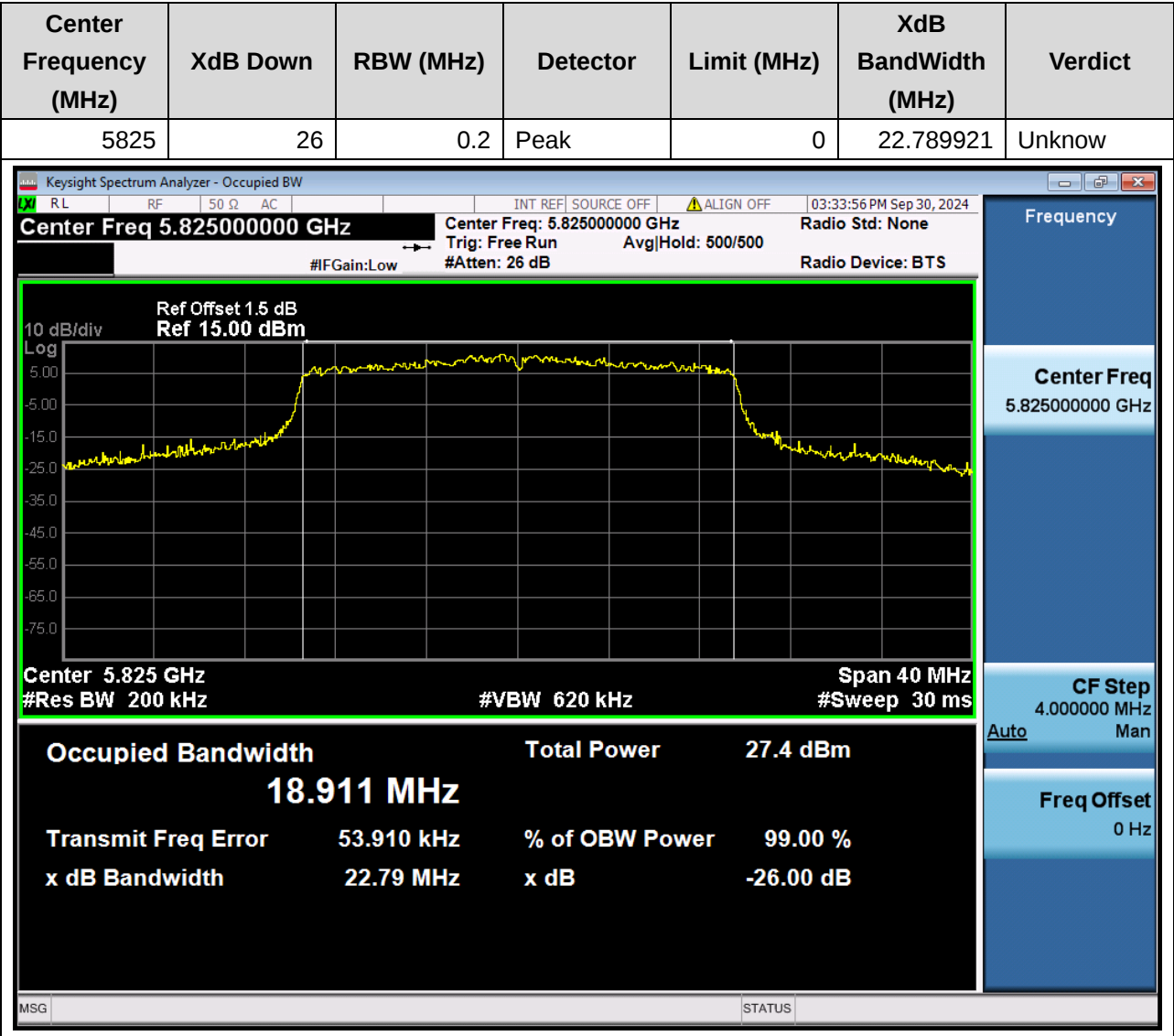
85. 802.11ax_20M_Band4_M

85.1 A.2-26dB Bandwidth(NTNV)



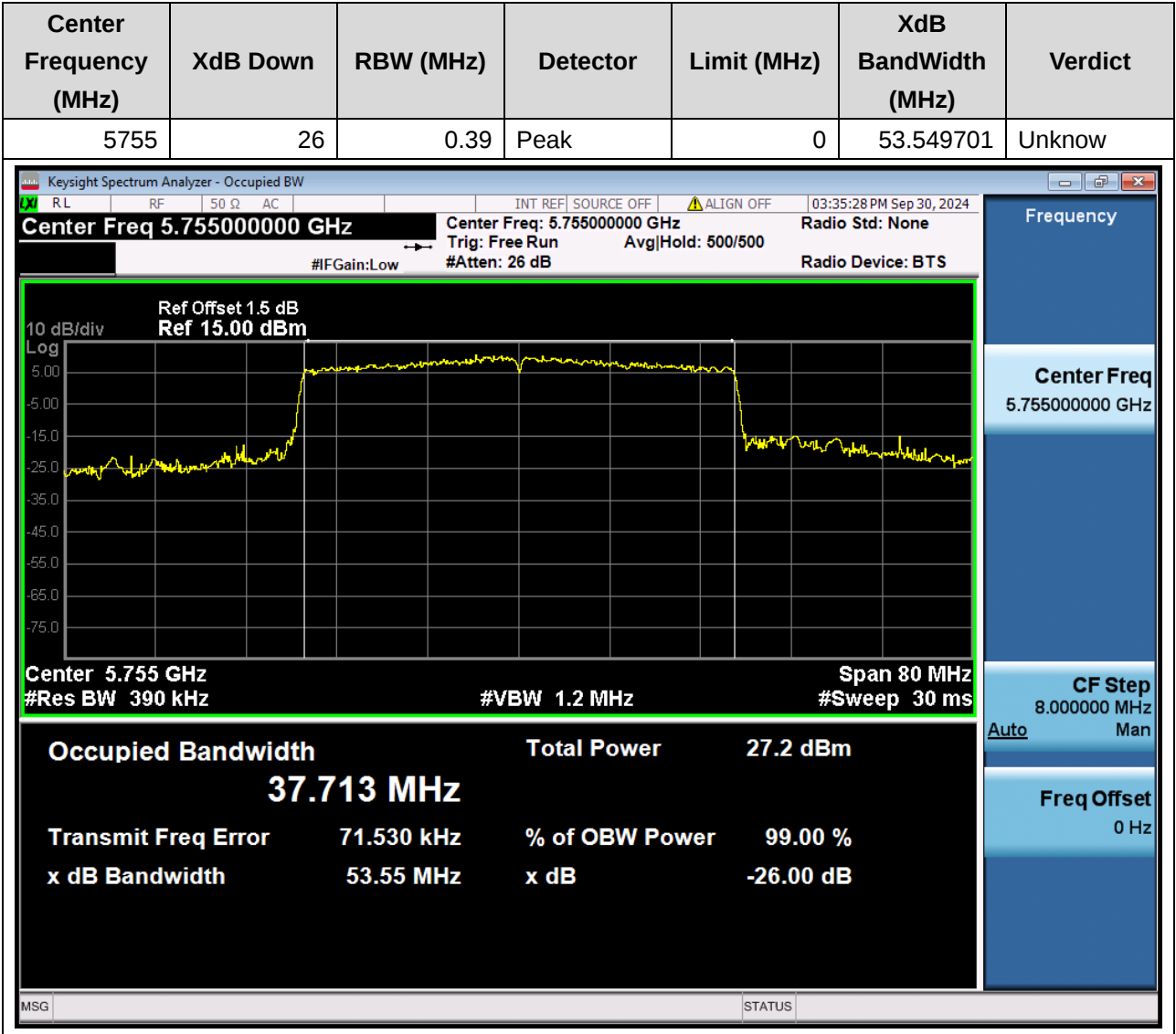
86. 802.11ax_20M_Band4_H

86.1 A.2-26dB Bandwidth(NTNV)



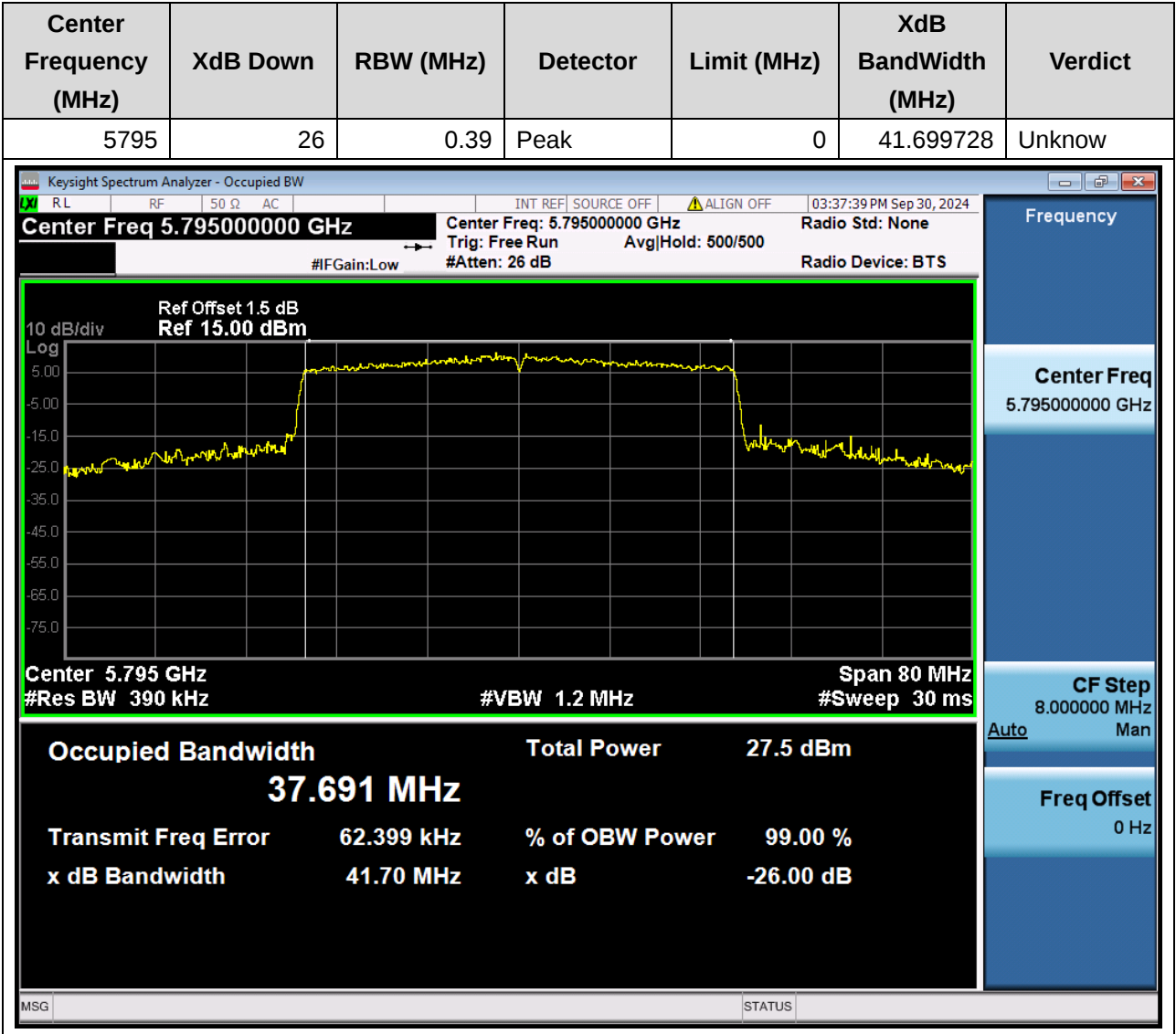
87. 802.11ax_40M_Band4_L

87.1 A.2-26dB Bandwidth(NTNV)



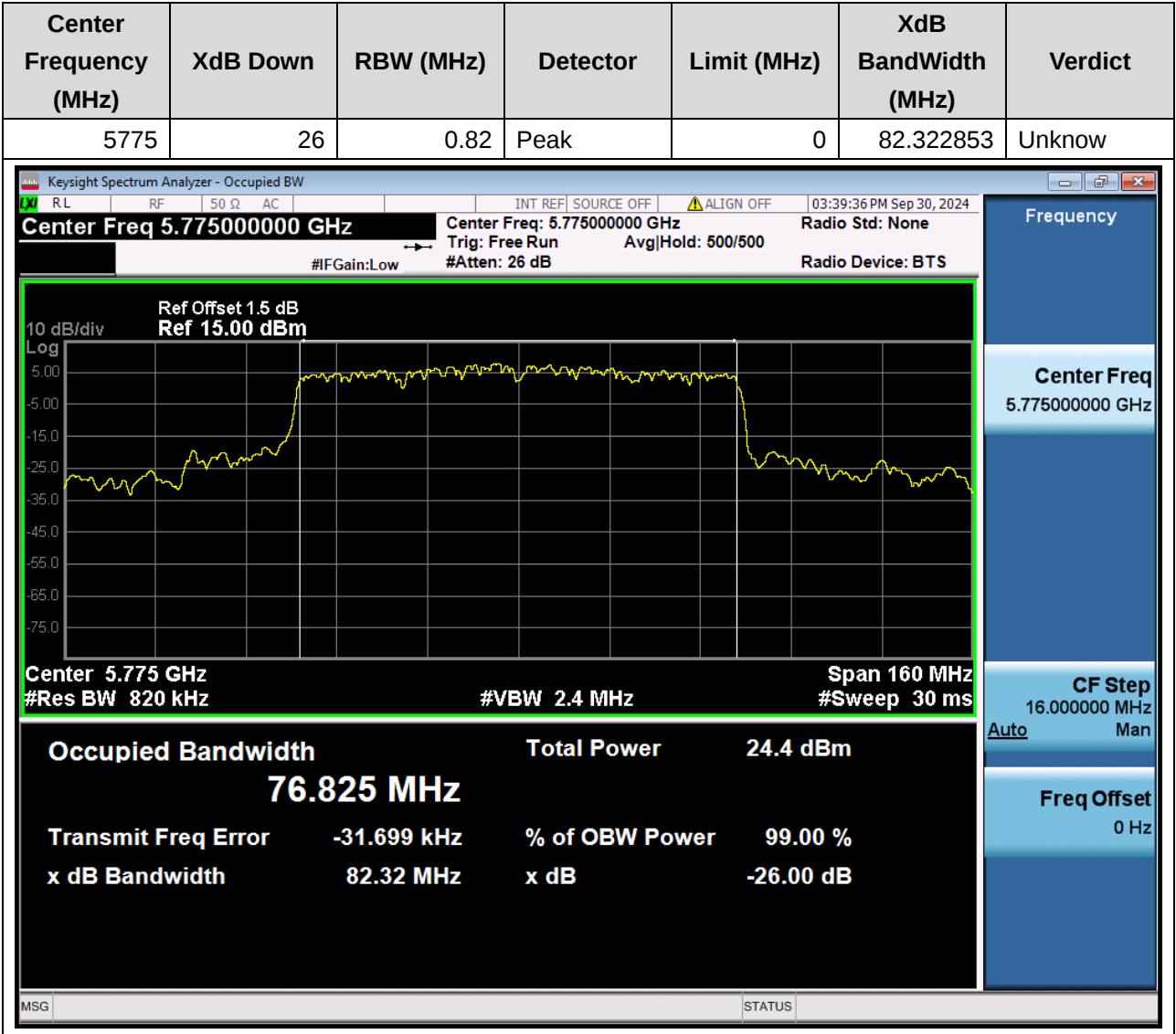
88. 802.11ax_40M_Band4_H

88.1 A.2-26dB Bandwidth(NTNV)



89. 802.11ax_80M_Band4_M

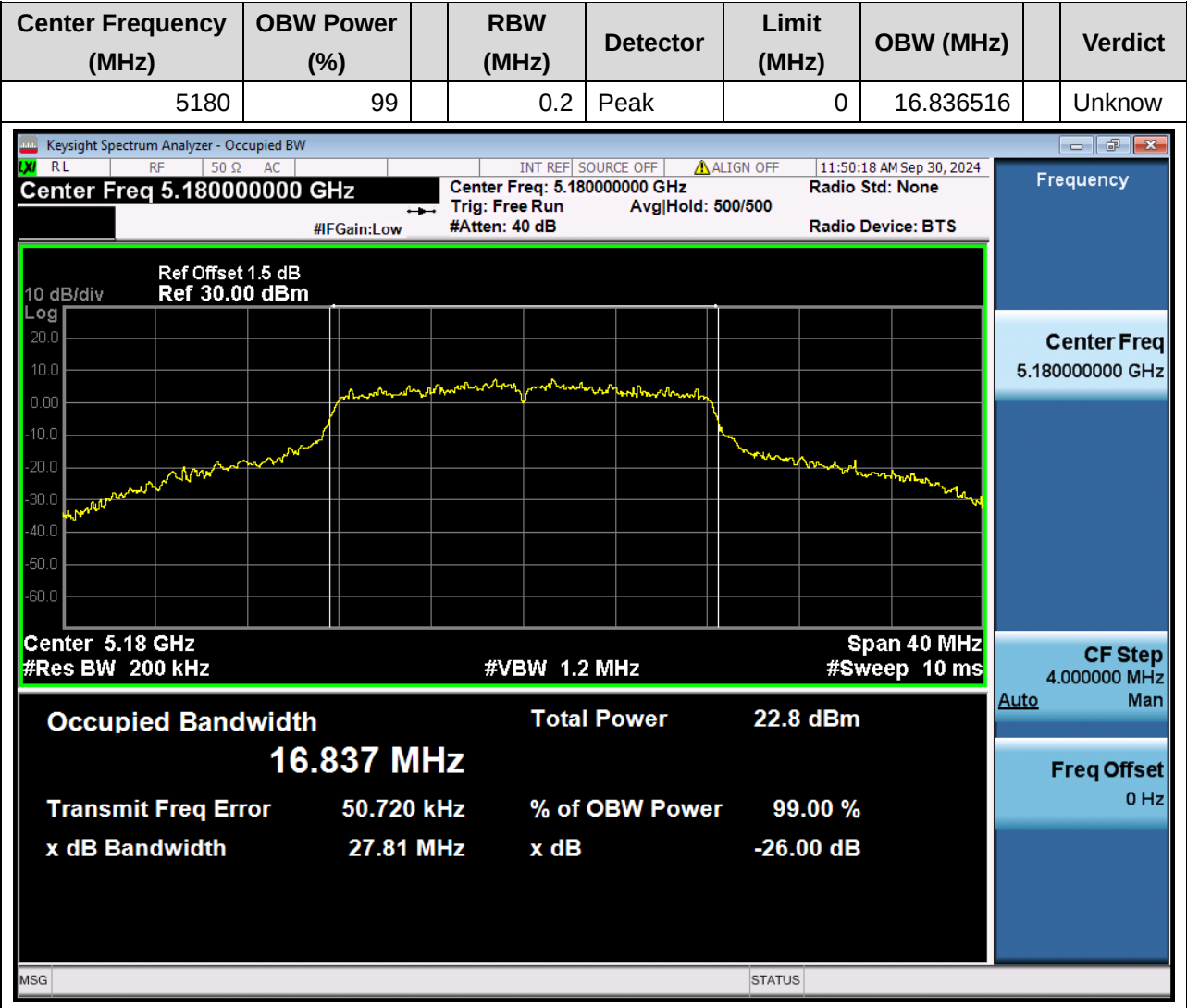
89.1 A.2-26dB Bandwidth(NTNV)



99% Bandwidth

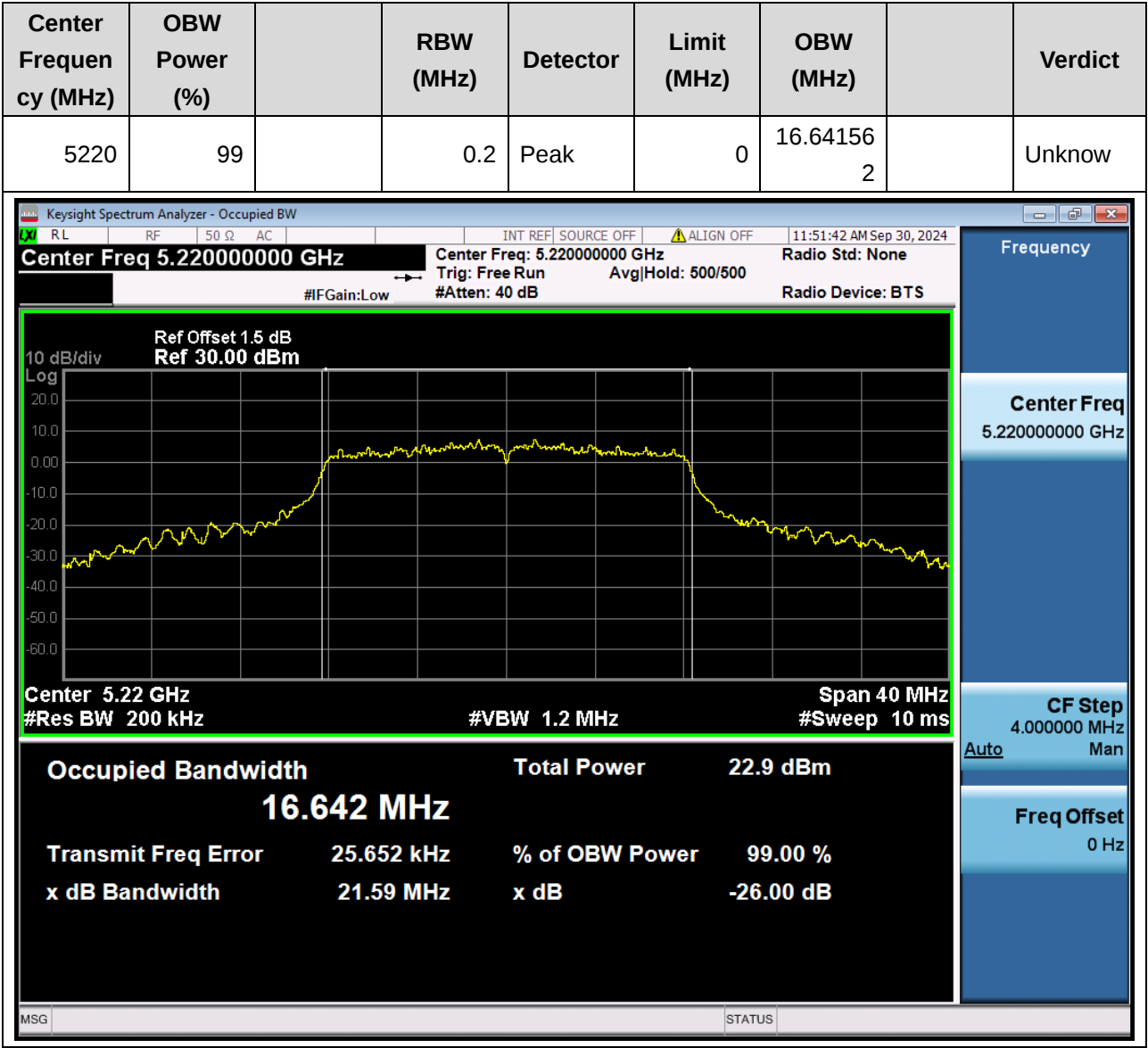
1. 802.11a_20M_Band1_L_ANT1

1.1 A.2.2-99% Bandwidth(NTNV)



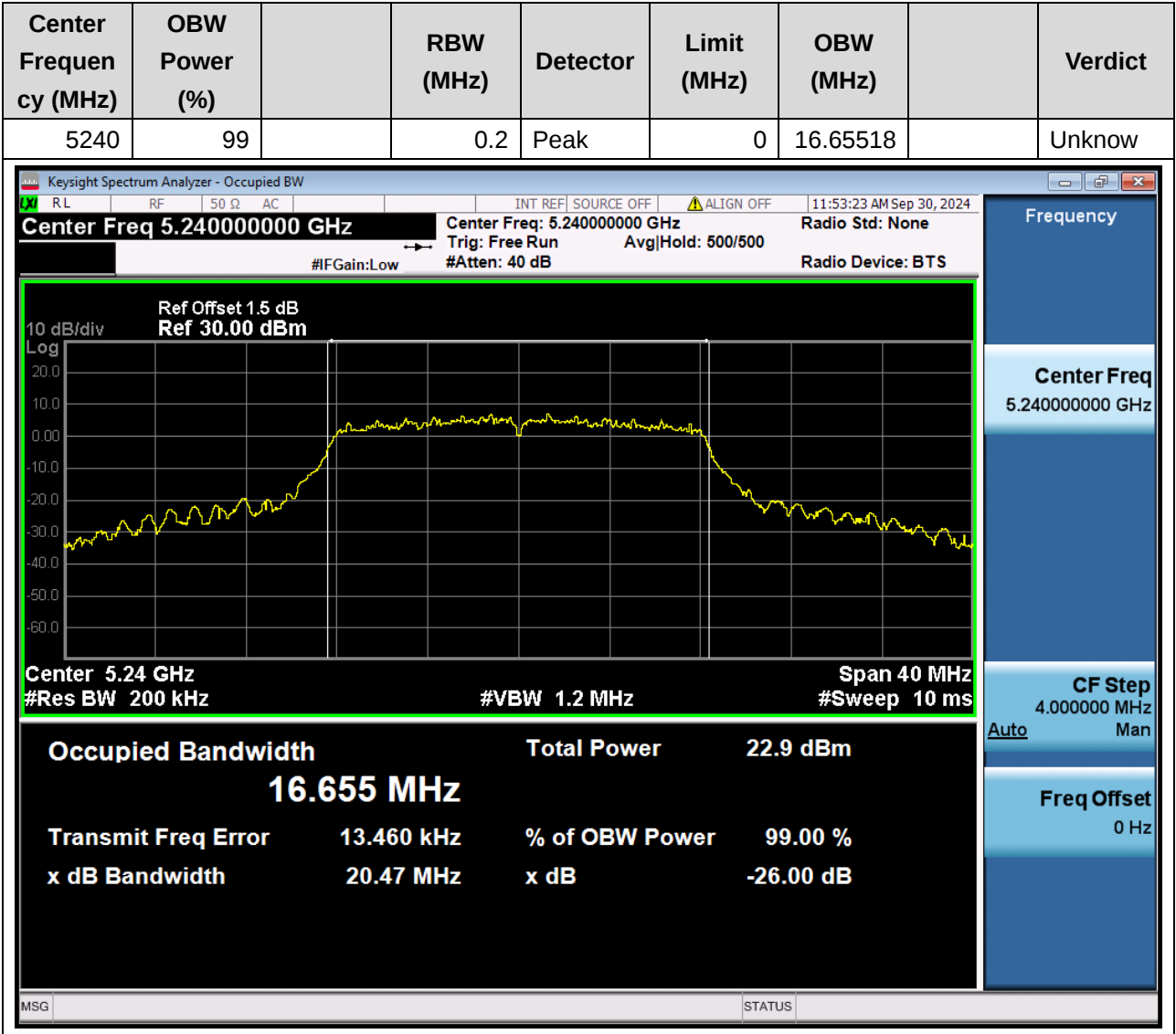
2. 802.11a_20M_Band1_M_ANT1

2.1 A.2.2-99% Bandwidth(NTNV)



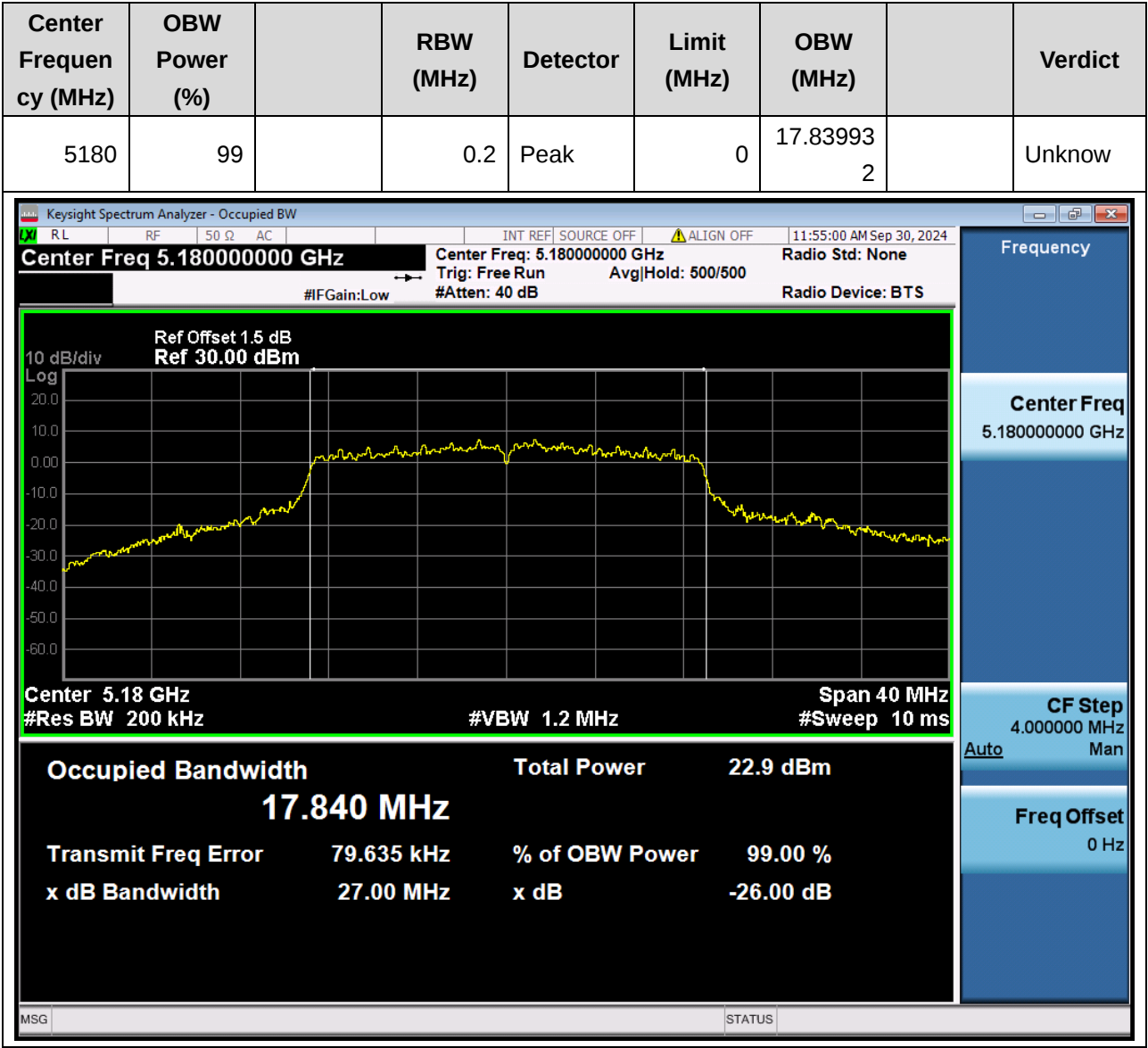
3. 802.11a_20M_Band1_H_ANT1

3.1 A.2.2-99% Bandwidth(NTNV)



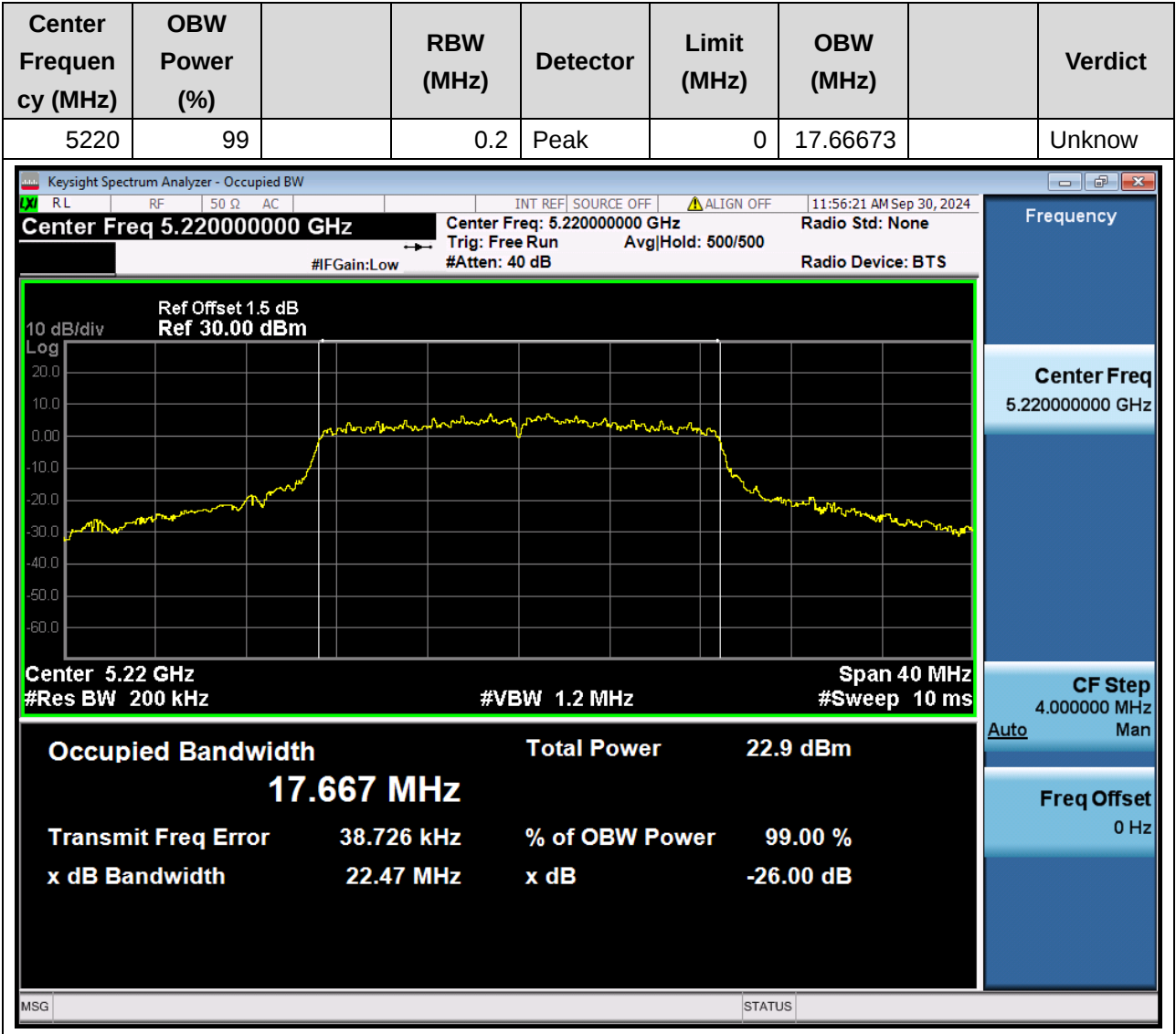
4. 802.11n_20M_Band1_L_ANT1

4.1 A.2.2-99% Bandwidth(NTNV)



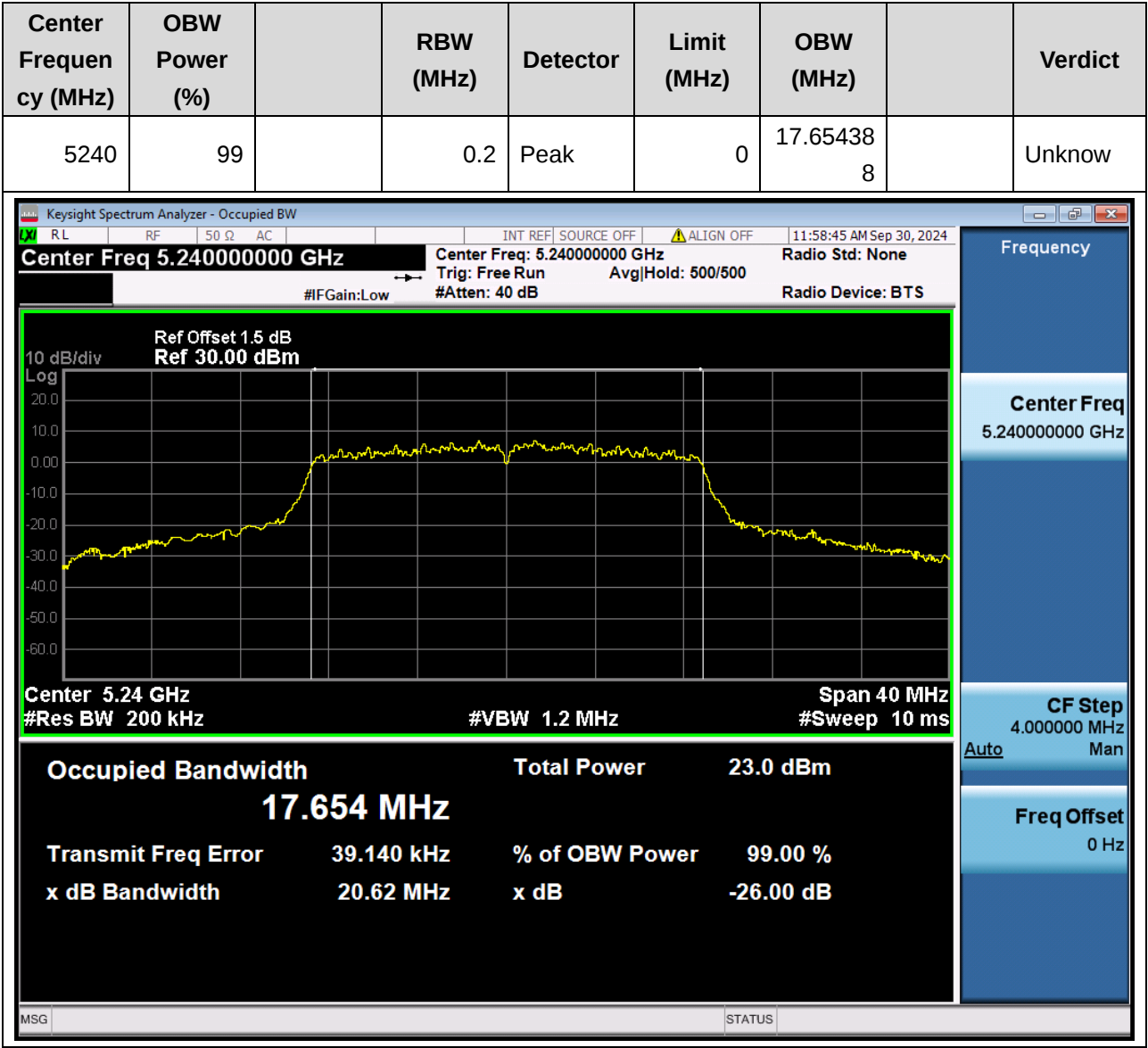
5. 802.11n_20M_Band1_M_ANT1

5.1 A.2.2-99% Bandwidth(NTNV)



6. 802.11n_20M_Band1_H_ANT1

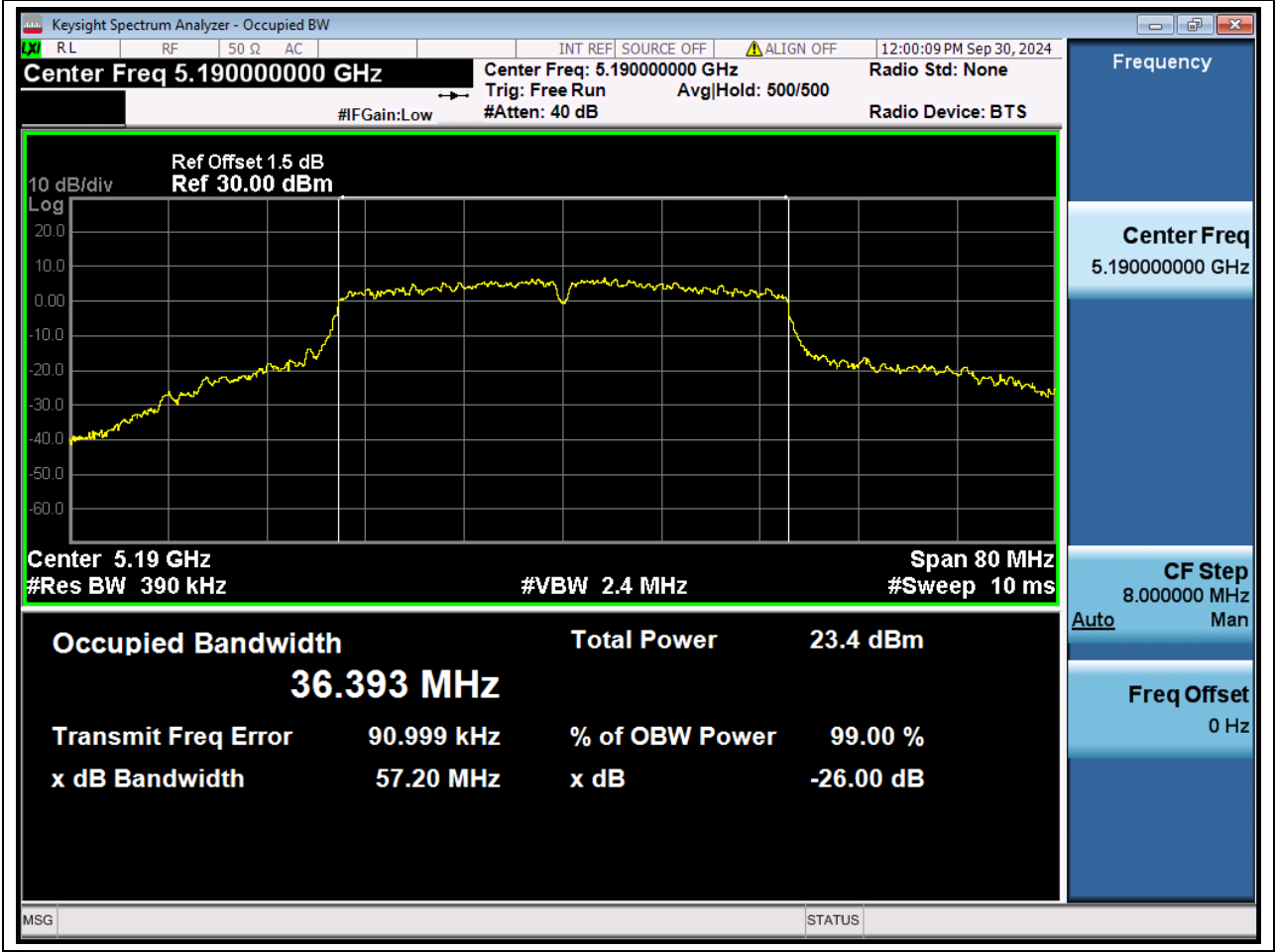
6.1 A.2.2-99% Bandwidth(NTNV)



7. 802.11n_40M_Band1_L_ANT1

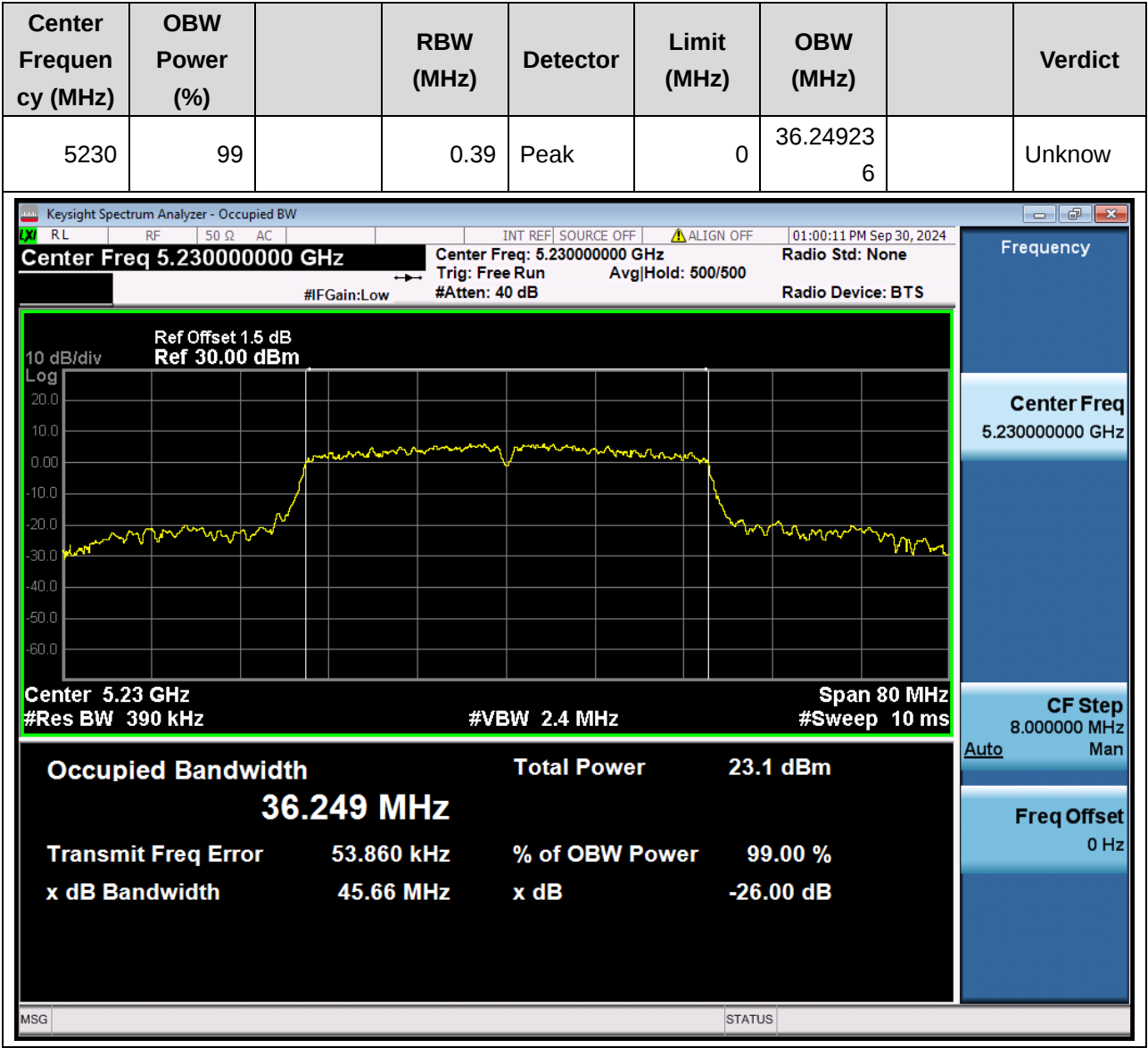
7.1 A.2.2-99% Bandwidth(NTNV)

Center Freq cy (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5190	99		0.39	Peak	0	36.393175		Unknow



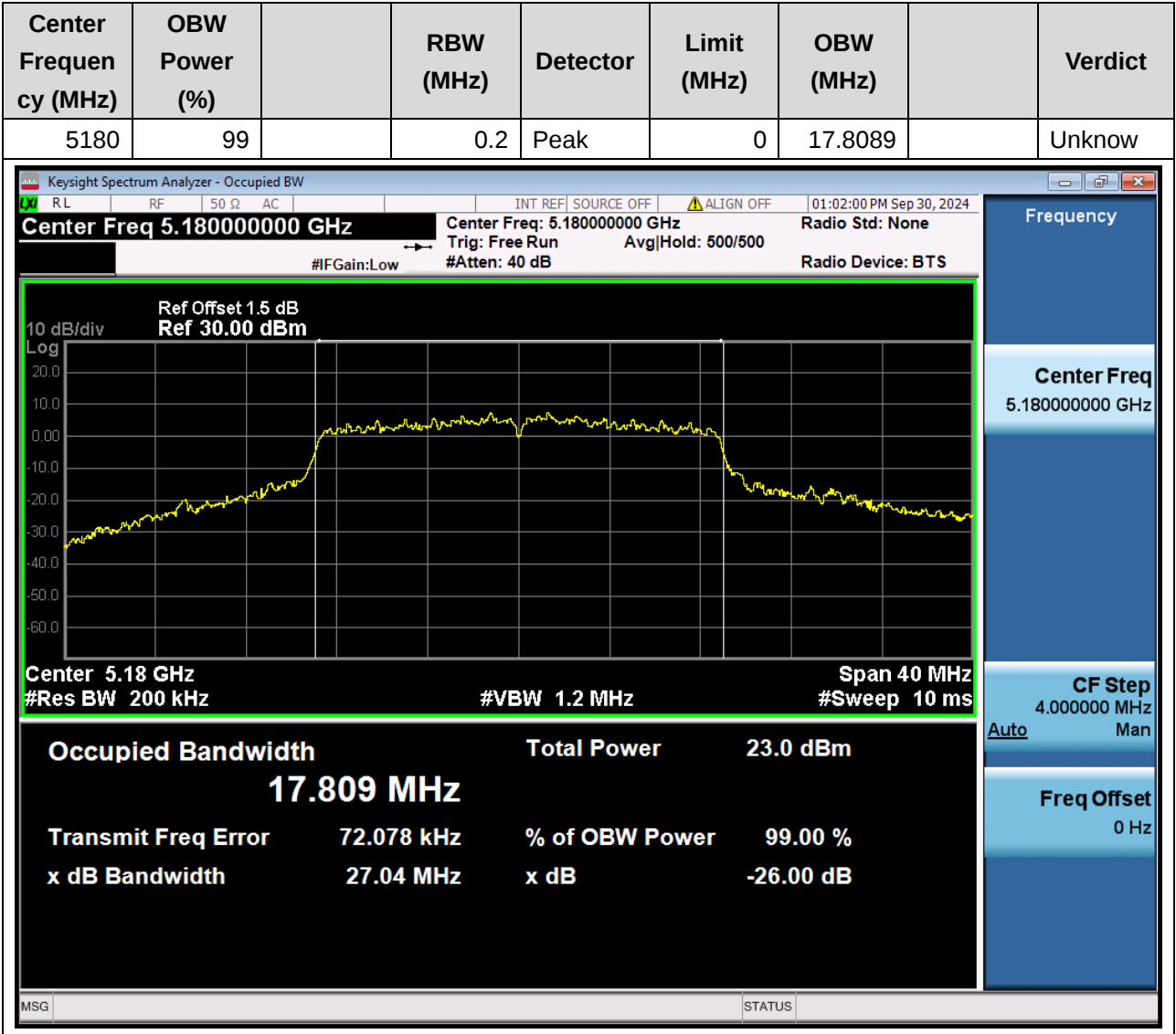
8. 802.11n_40M_Band1_H_ANT1

8.1 A.2.2-99% Bandwidth(NTNV)



9. 802.11ac_20M_Band1_L_ANT1

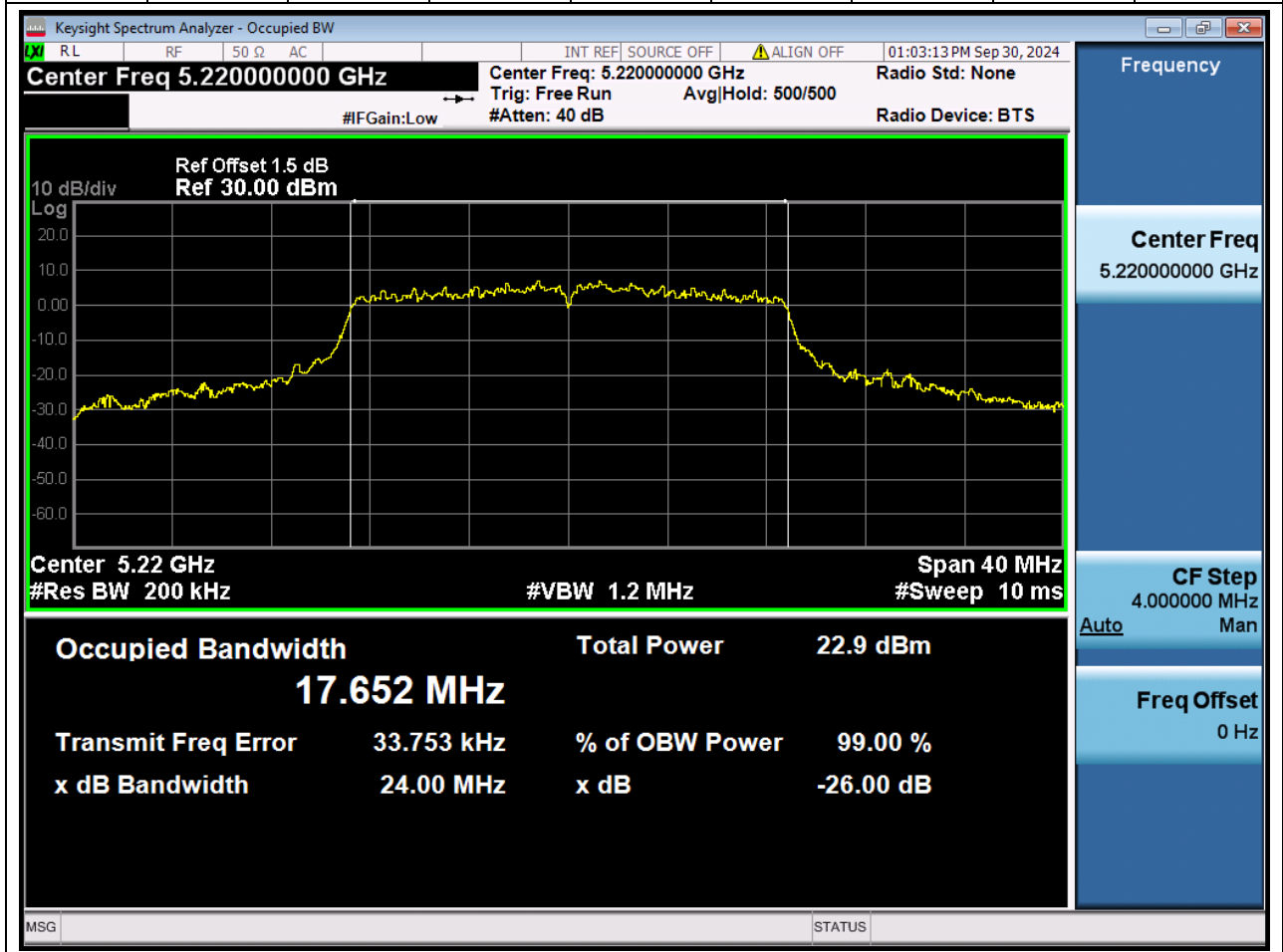
9.1 A.2.2-99% Bandwidth(NTNV)



10. 802.11ac_20M_Band1_M_ANT1

10.1 A.2.2-99% Bandwidth(NTNV)

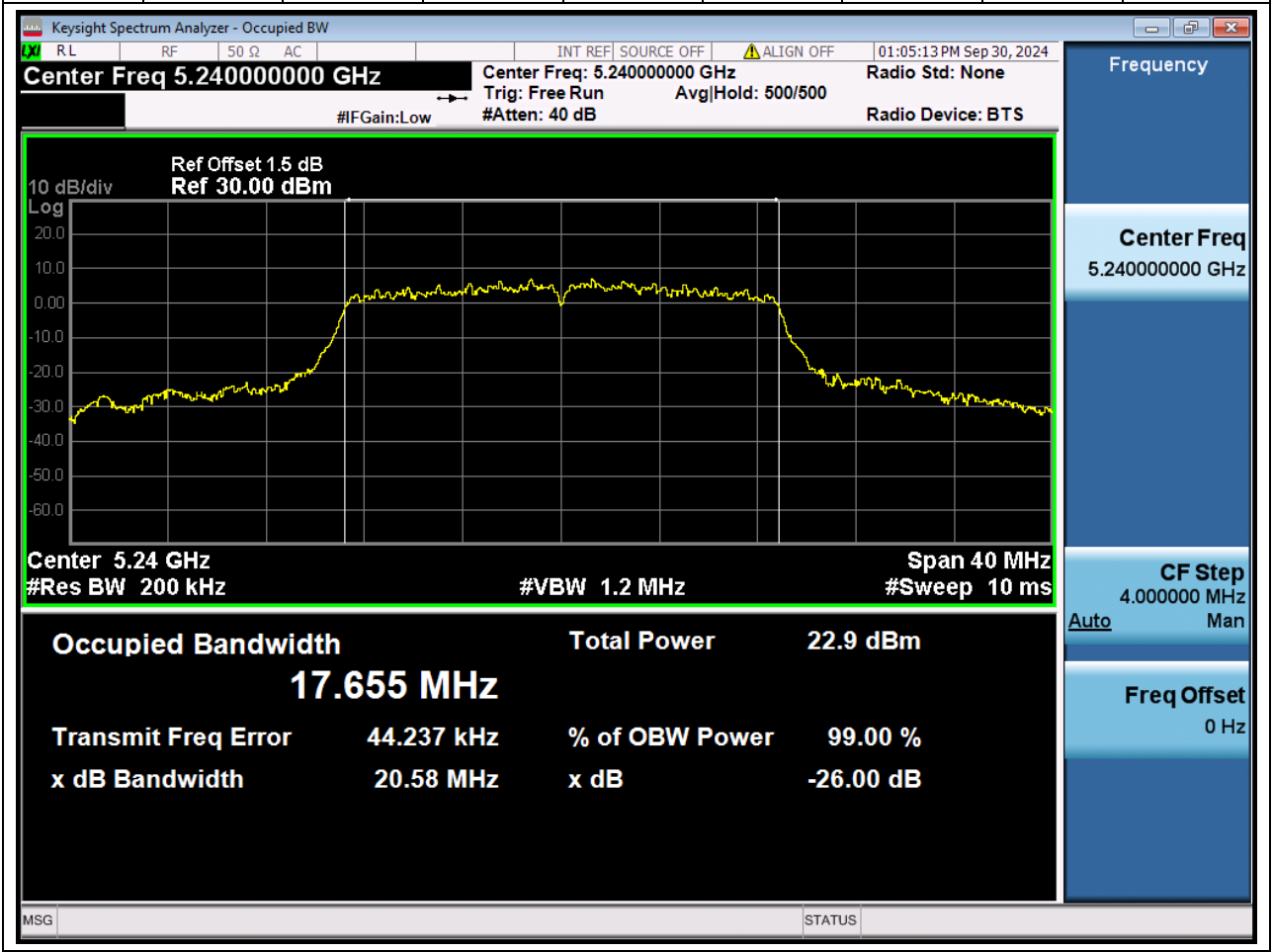
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5220	99		0.2	Peak	0	17.651741		Unknown



11. 802.11ac_20M_Band1_H_ANT1

11.1 A.2.2-99% Bandwidth(NTNV)

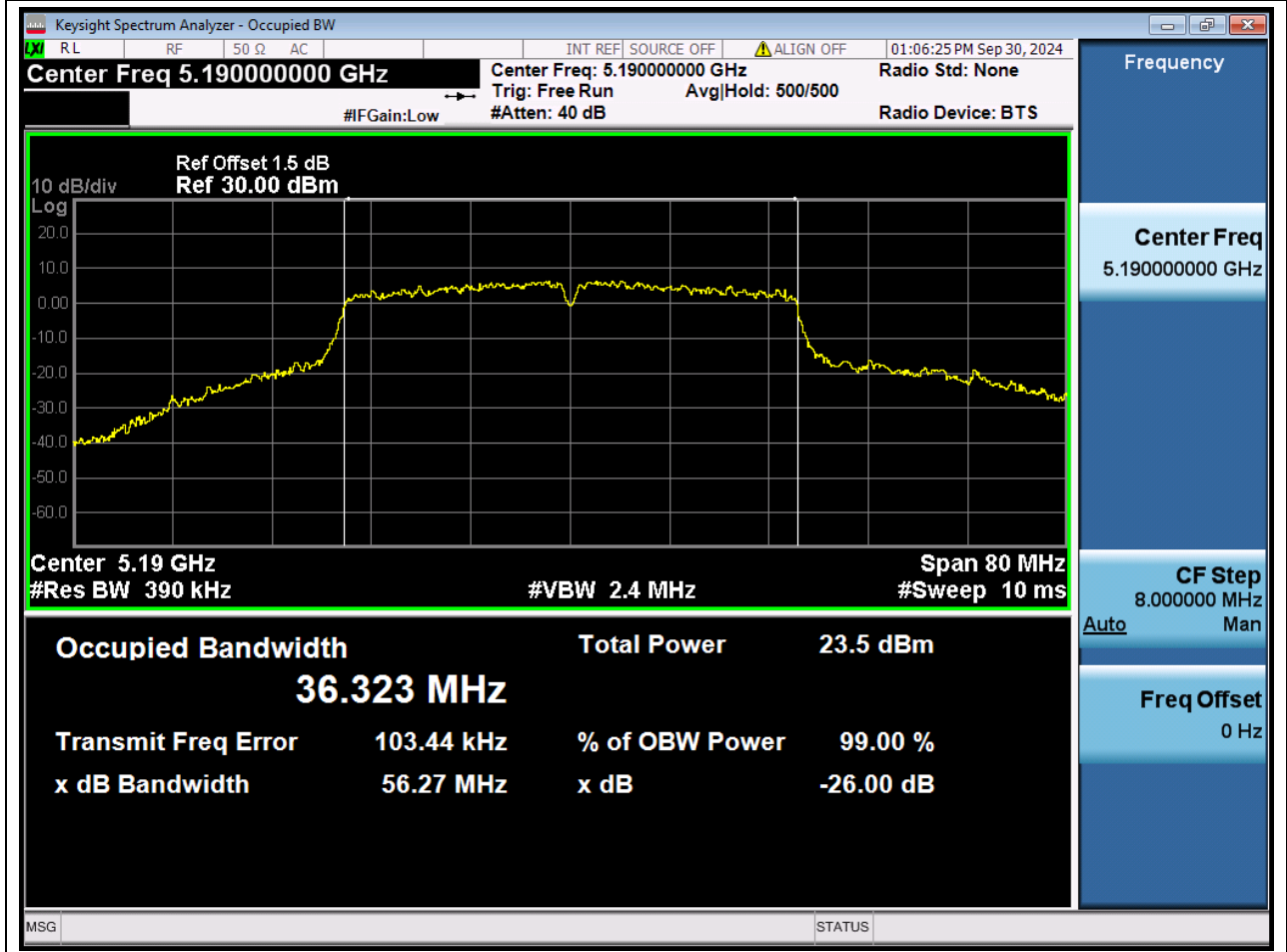
Center Frequen cy (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5240	99		0.2	Peak	0	17.654956		Unknow



12. 802.11ac_40M_Band1_L_ANT1

12.1 A.2.2-99% Bandwidth(NTNV)

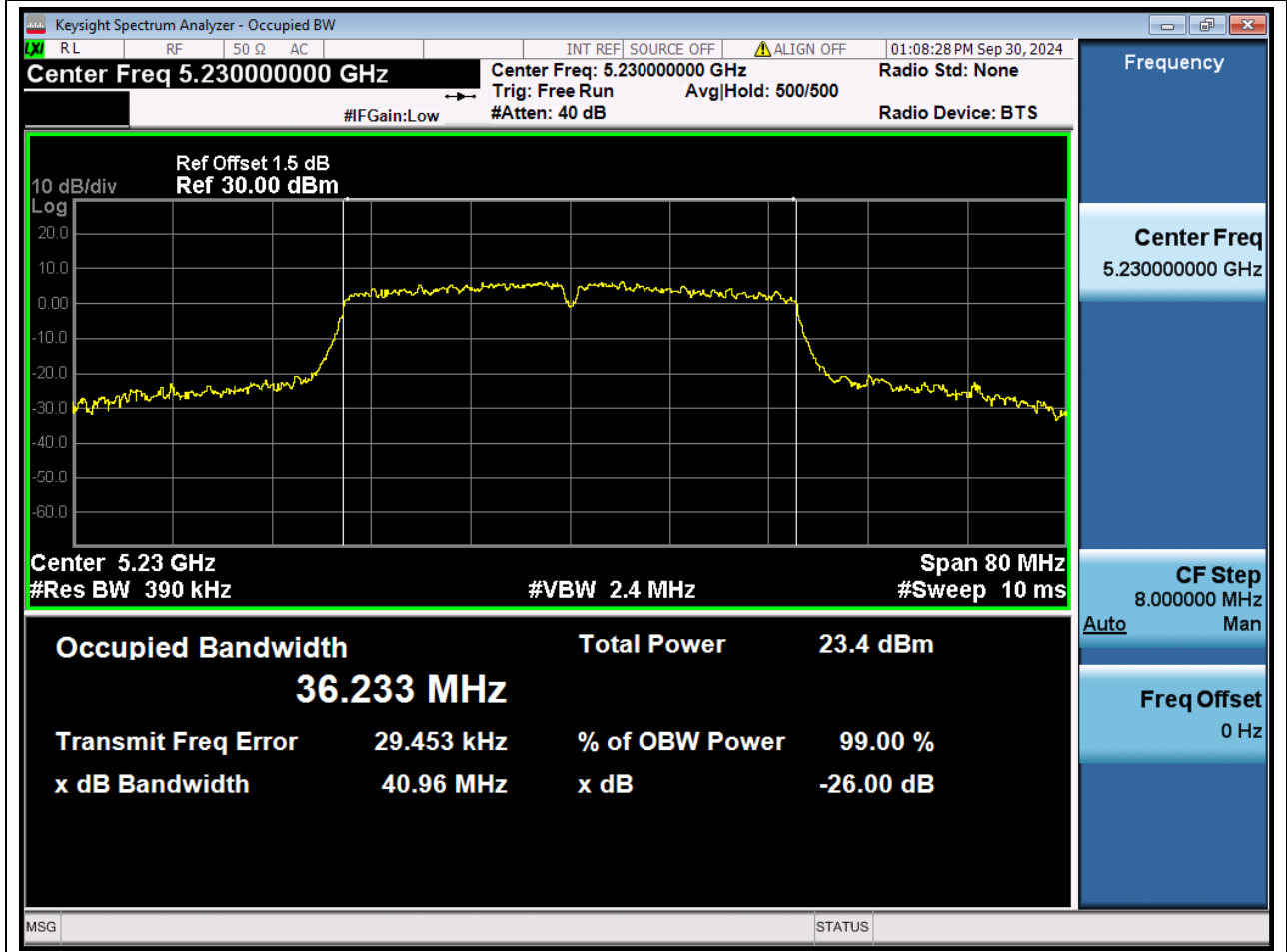
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5190	99		0.39	Peak	0	36.322625		Unknown



13. 802.11ac_40M_Band1_H_ANT1

13.1 A.2.2-99% Bandwidth(NTNV)

Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5230	99		0.39	Peak	0	36.232856		Unknown



14. 802.11ac_80M_Band1_M_ANT1

14.1 A.2.2-99% Bandwidth(NTNV)

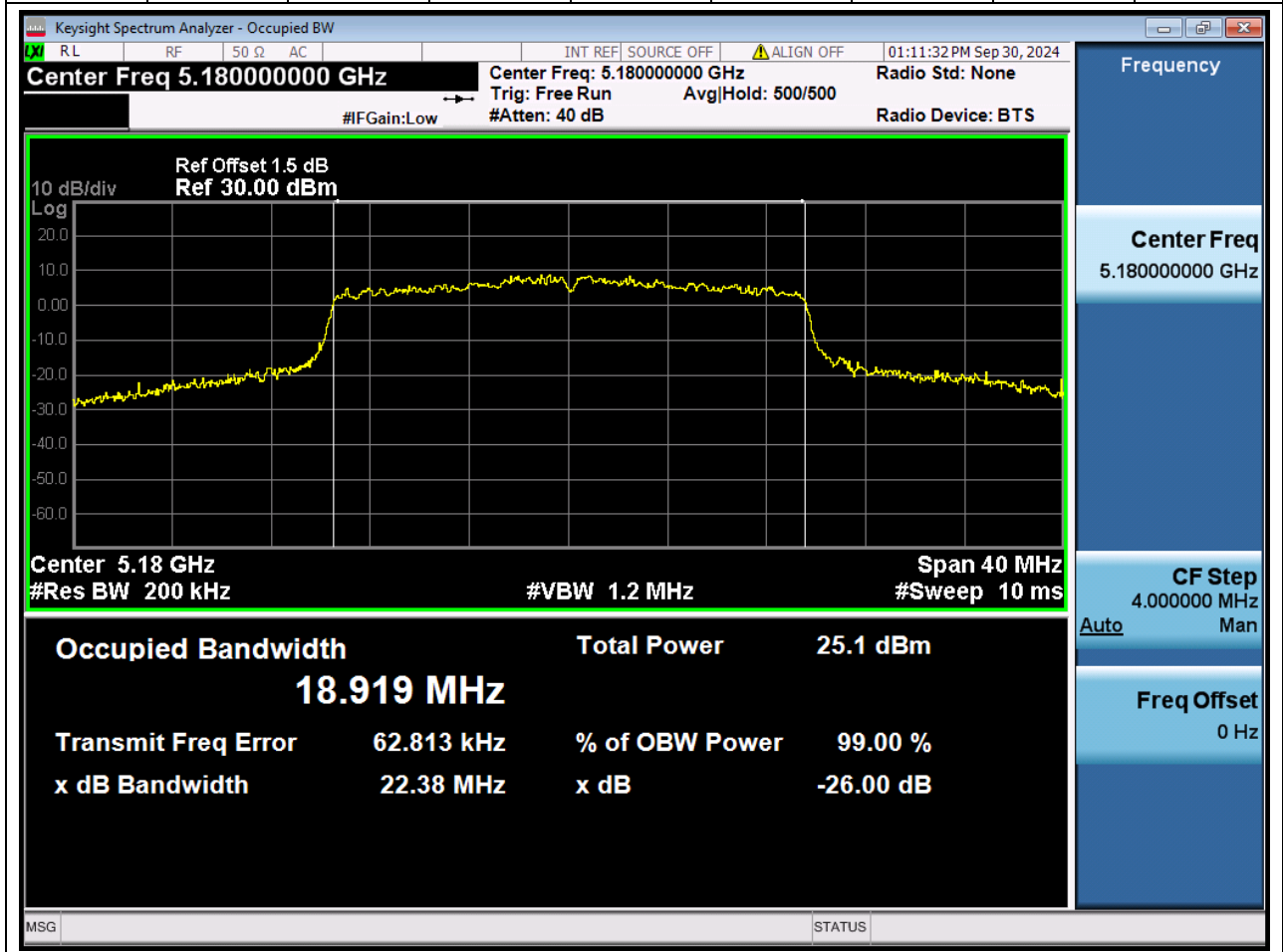
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5210	99		0.82	Peak	0	75.704168		Unknown



15. 802.11ax_20M_Band1_L_ANT1

15.1 A.2.2-99% Bandwidth(NTNV)

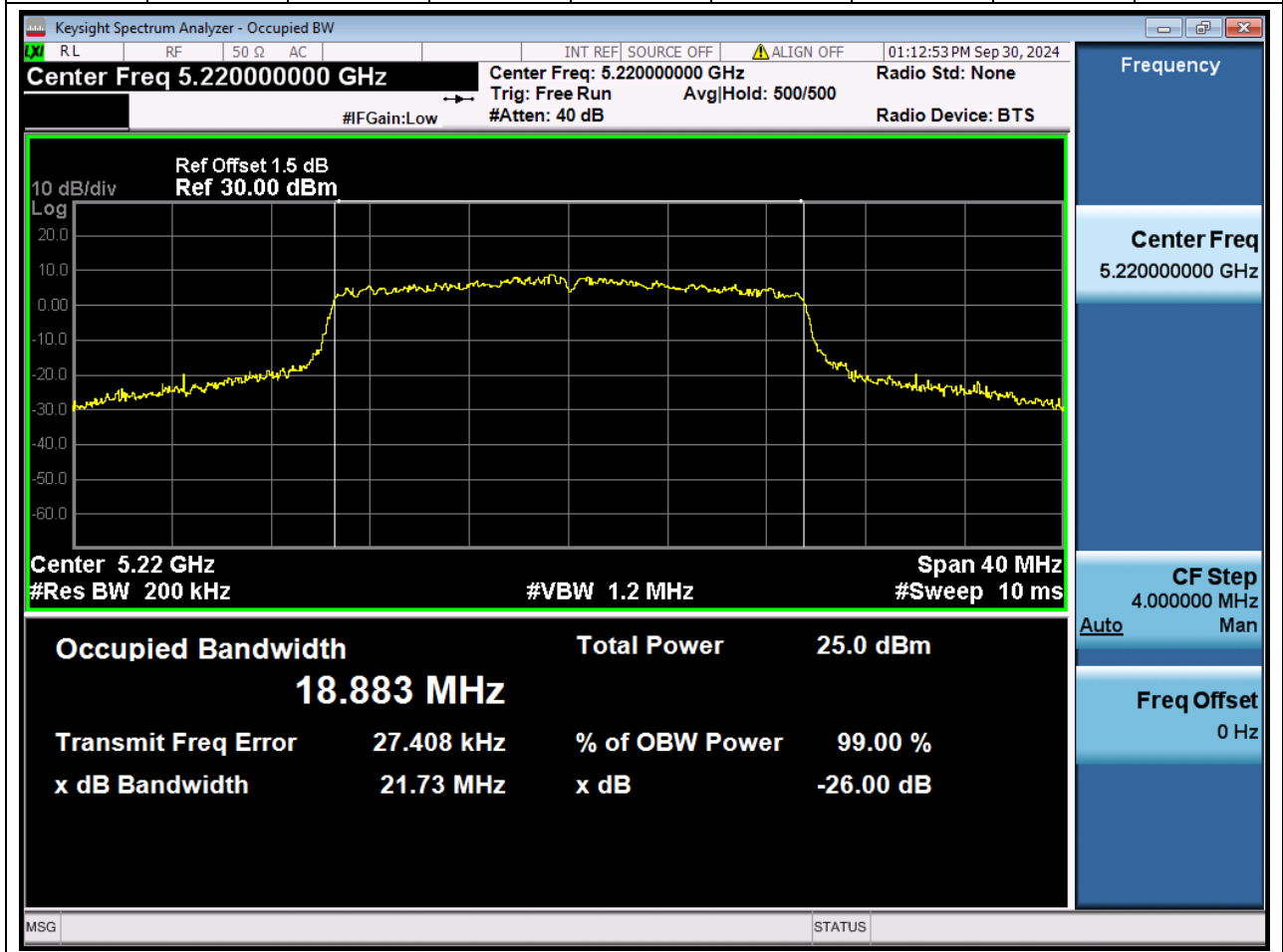
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5180	99		0.2	Peak	0	18.919275		Unknown



16. 802.11ax_20M_Band1_M_ANT1

16.1 A.2.2-99% Bandwidth(NTNV)

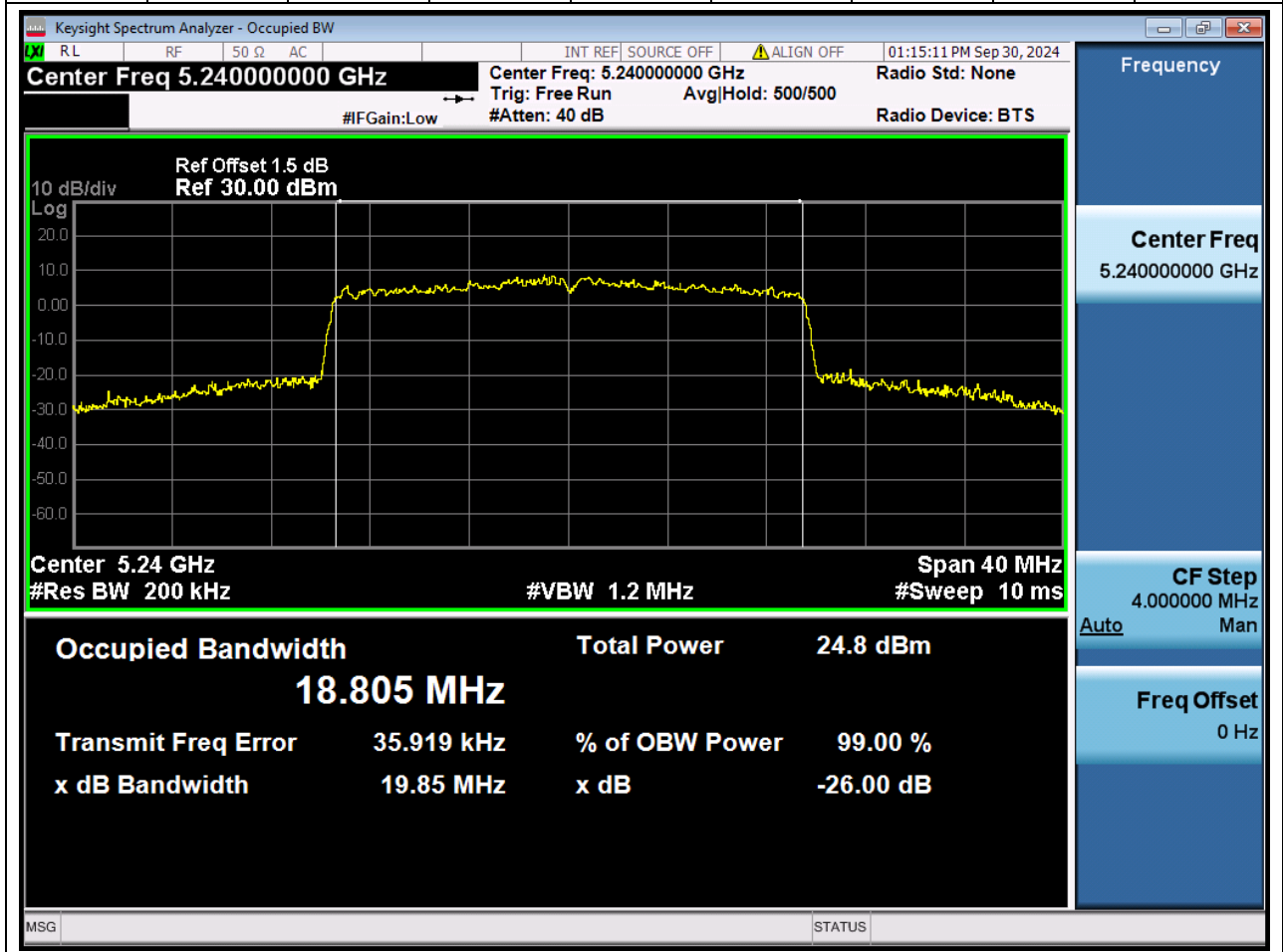
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5220	99		0.2	Peak	0	18.882628		Unknown



17. 802.11ax_20M_Band1_H_ANT1

17.1 A.2.2-99% Bandwidth(NTNV)

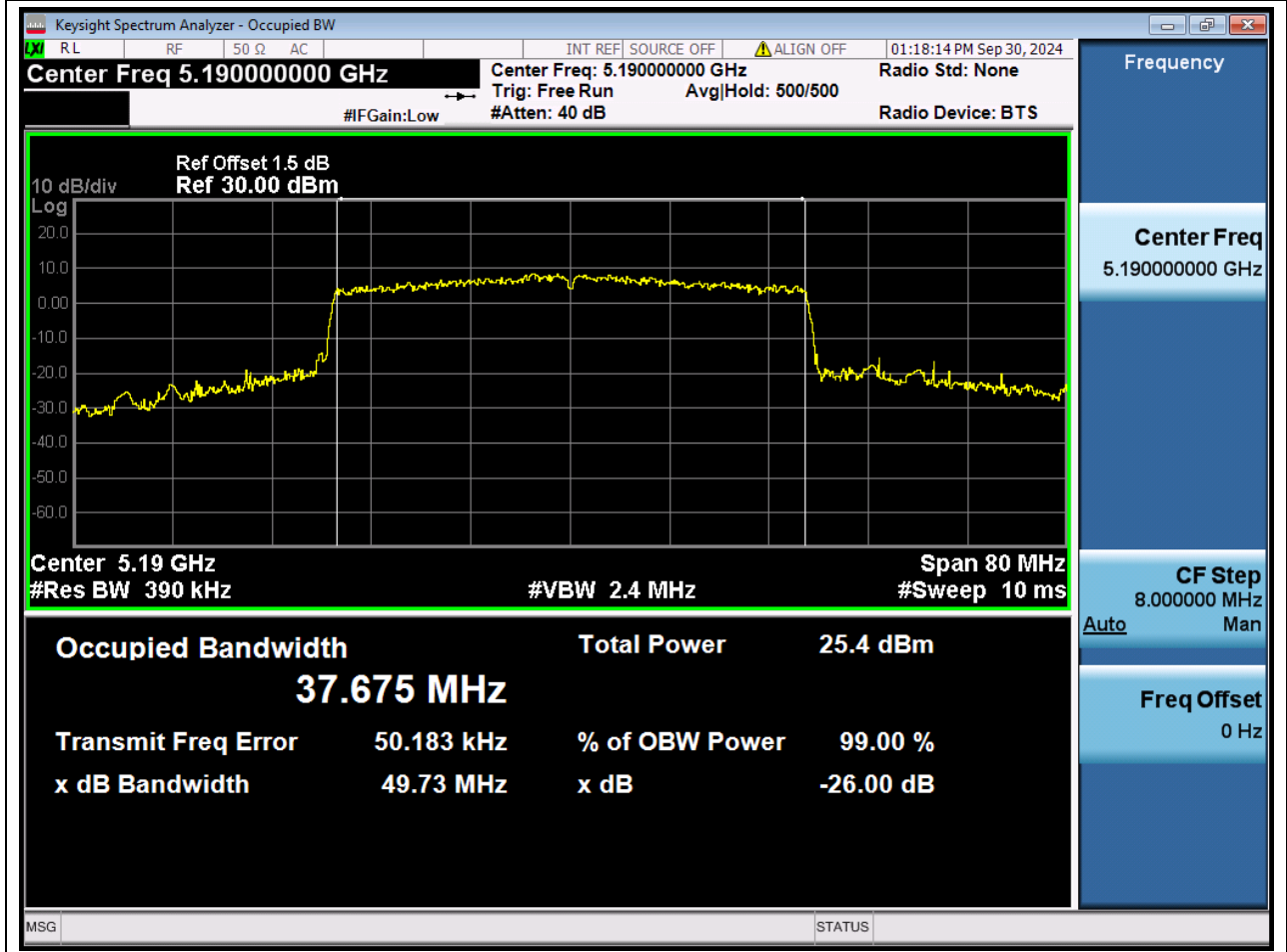
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5240	99		0.2	Peak	0	18.805141		Unknown



18. 802.11ax_40M_Band1_L_ANT1

18.1 A.2.2-99% Bandwidth(NTNV)

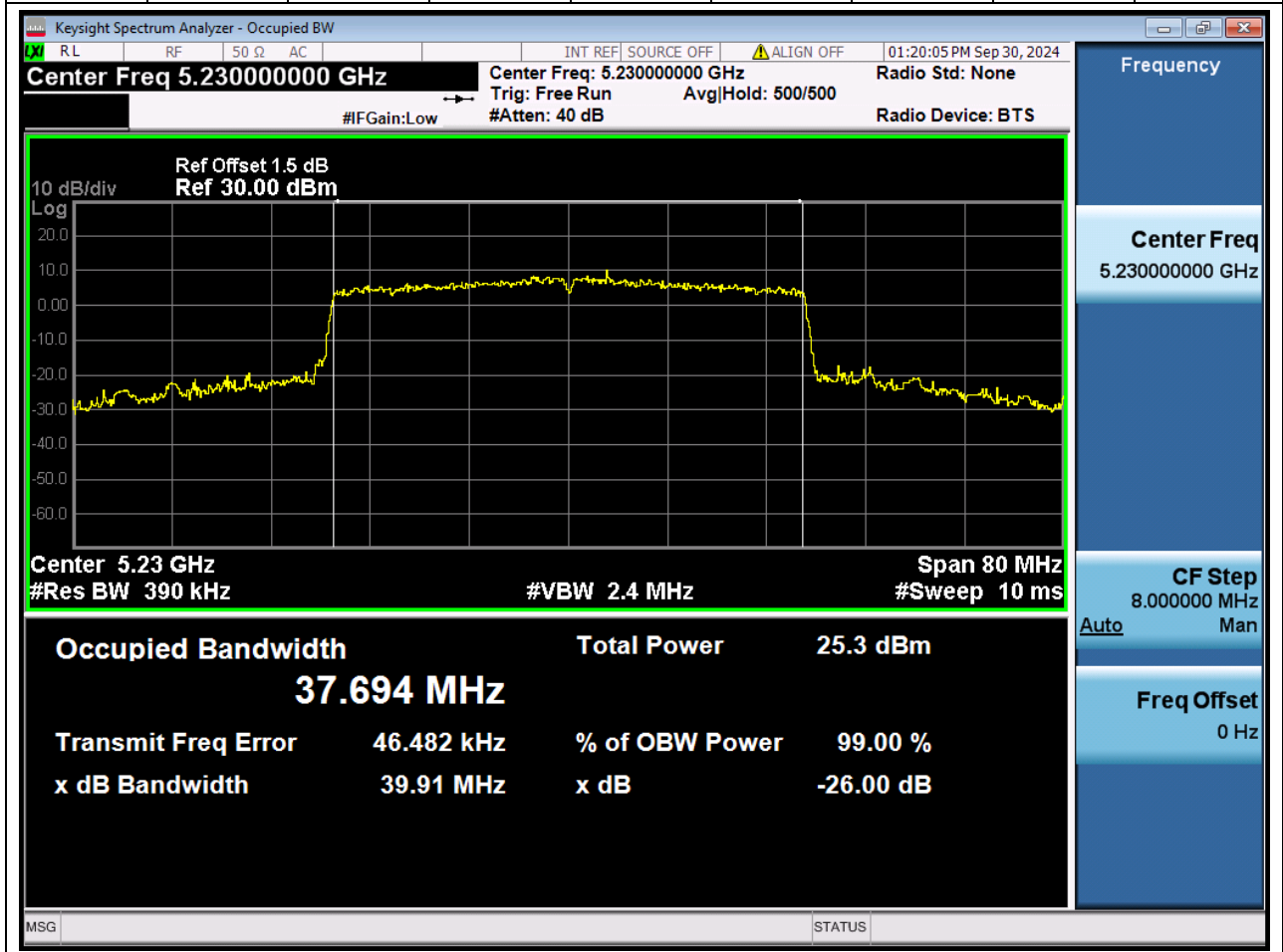
Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5190	99		0.39	Peak	0	37.674768		Unknown



19. 802.11ax_40M_Band1_H_ANT1

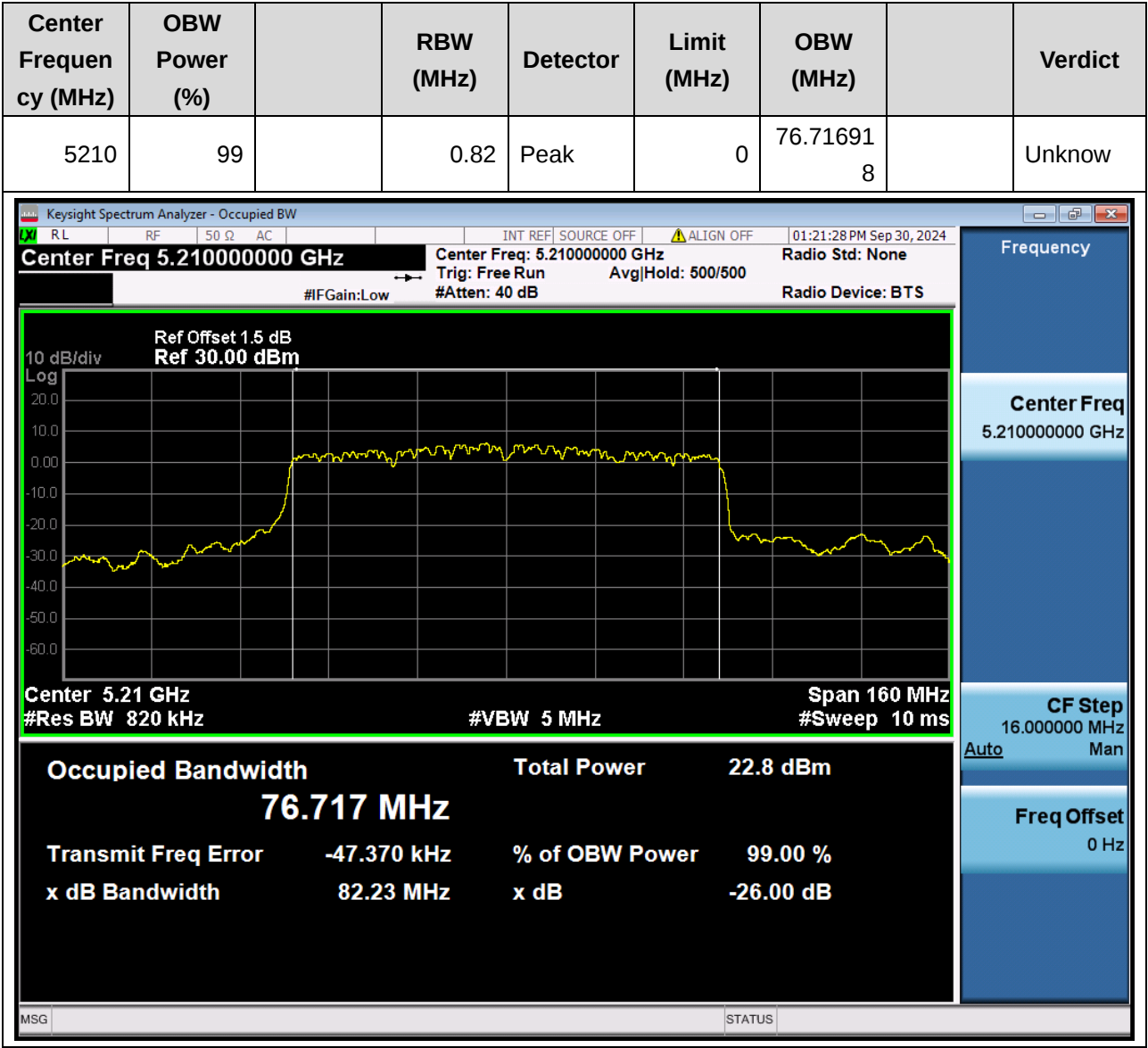
19.1 A.2.2-99% Bandwidth(NTNV)

Center Frequency (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5230	99		0.39	Peak	0	37.693936		Unknown



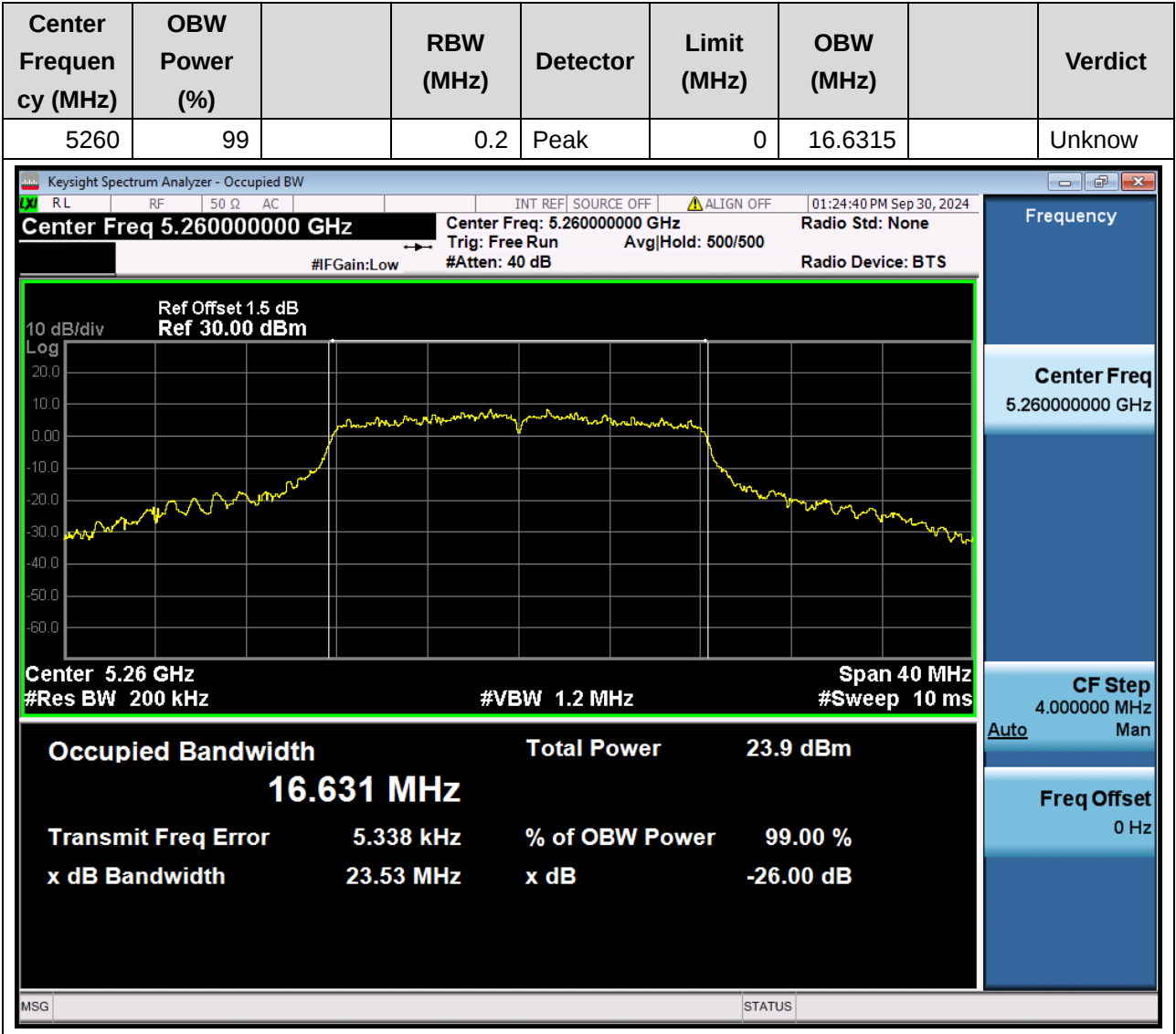
20. 802.11ax_80M_Band1_M_ANT1

20.1 A.2.2-99% Bandwidth(NTNV)



21. 802.11a_20M_Band2_L_ANT1

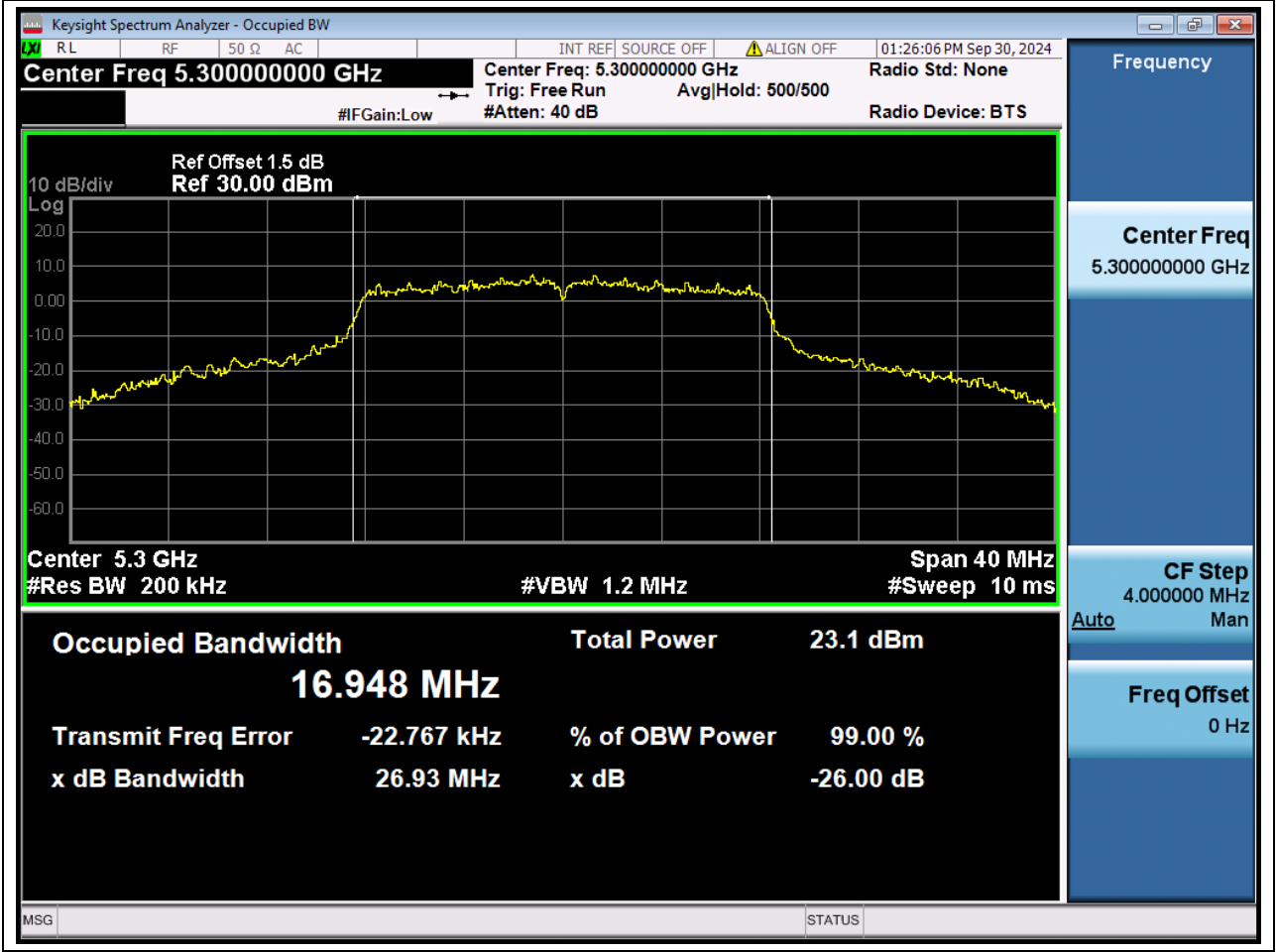
21.1 A.2.2-99% Bandwidth(NTNV)



22. 802.11a_20M_Band2_M_ANT1

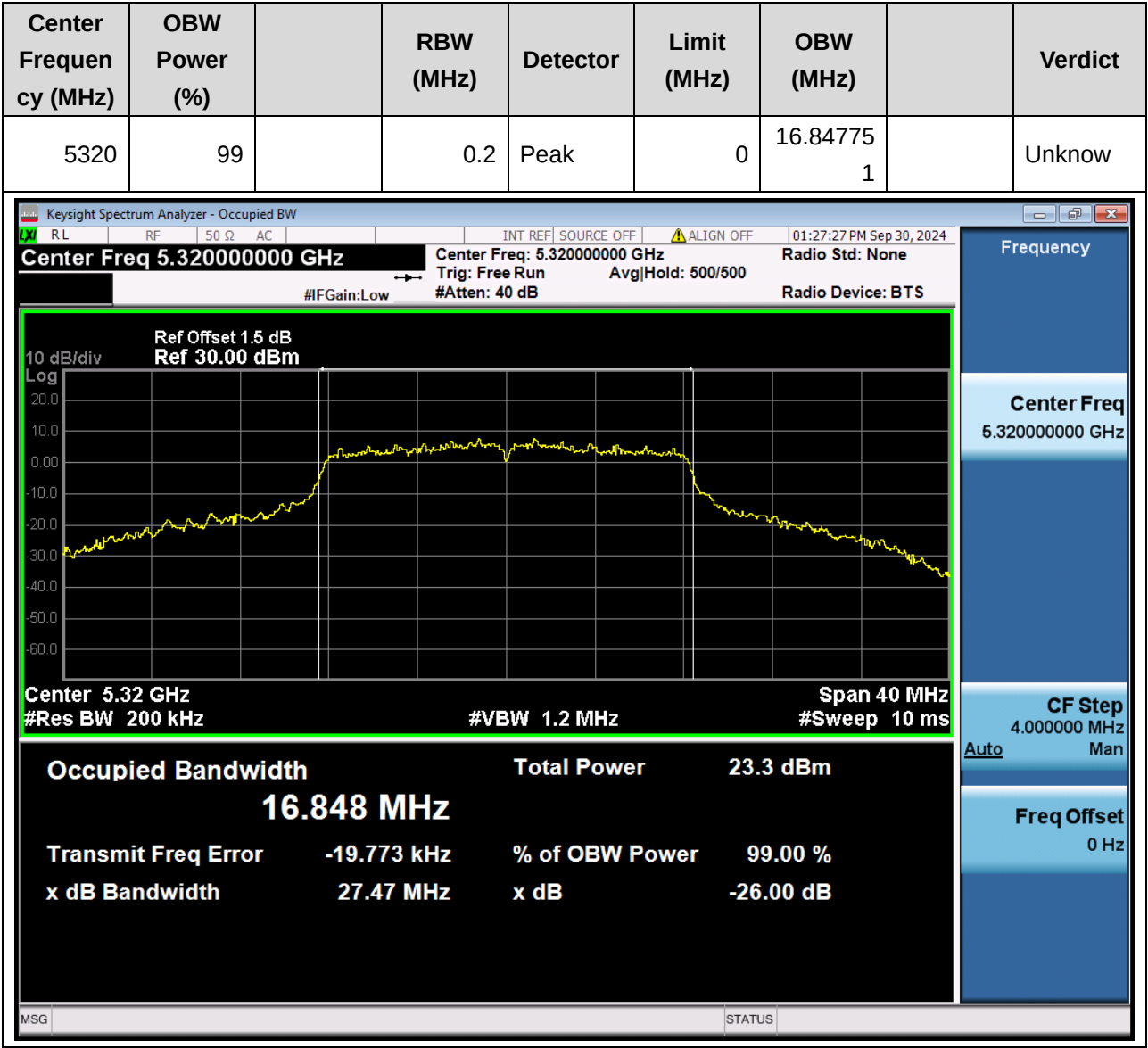
22.1 A.2.2-99% Bandwidth(NTNV)

Center Freq cy (MHz)	OBW Power (%)		RBW (MHz)	Detector	Limit (MHz)	OBW (MHz)		Verdict
5300	99		0.2	Peak	0	16.948207		Unknow



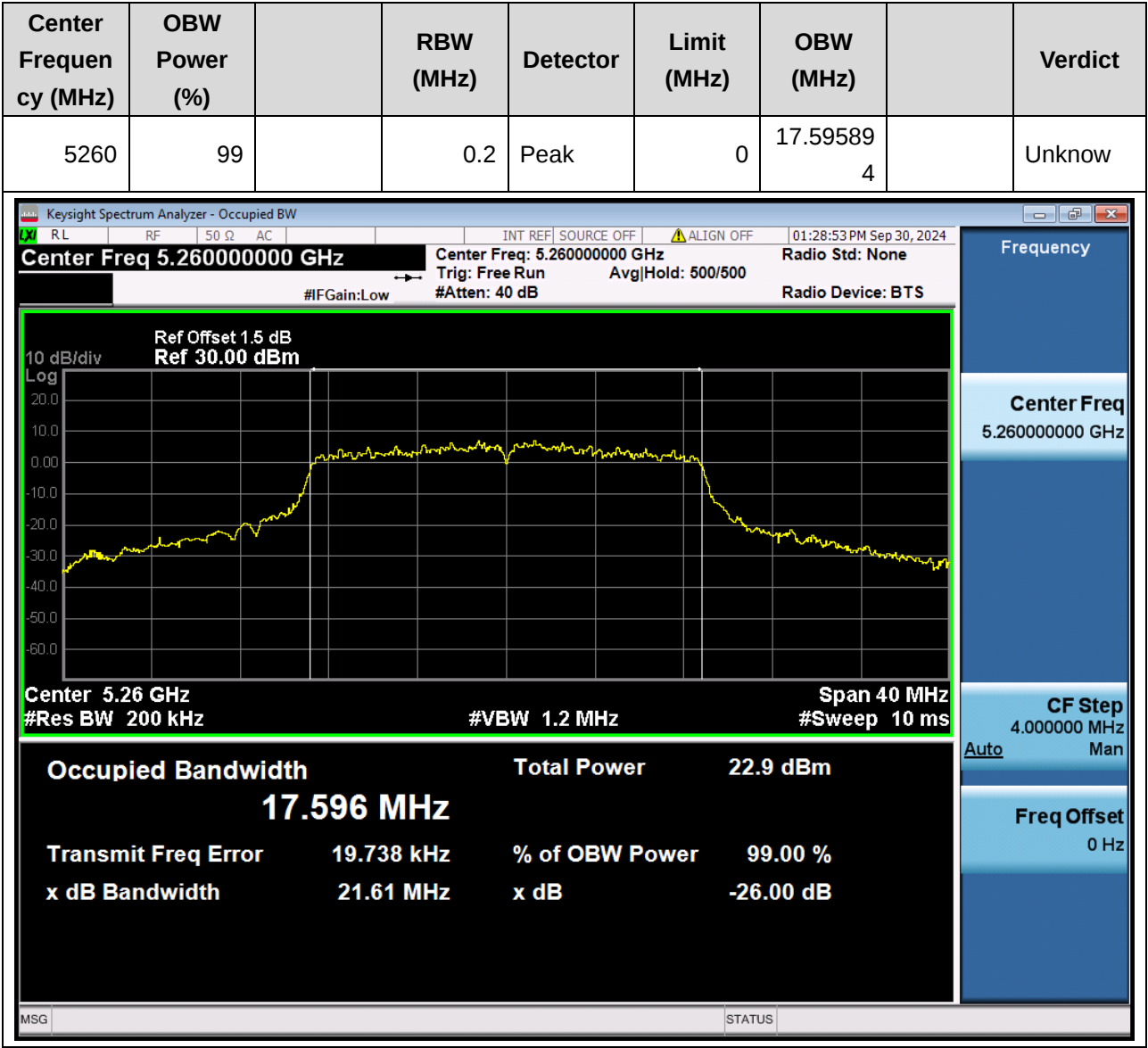
23. 802.11a_20M_Band2_H_ANT1

23.1 A.2.2-99% Bandwidth(NTNV)



24. 802.11n_20M_Band2_L_ANT1

24.1 A.2.2-99% Bandwidth(NTNV)



25. 802.11n_20M_Band2_M_ANT1

25.1 A.2.2-99% Bandwidth(NTNV)

