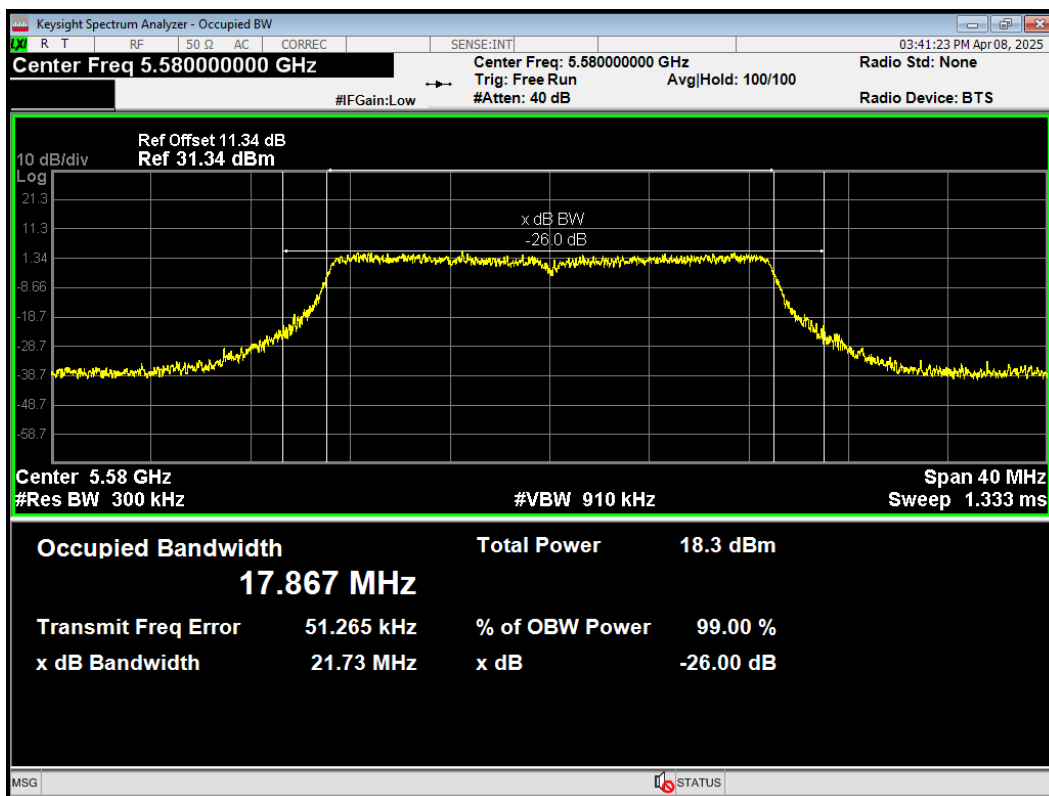
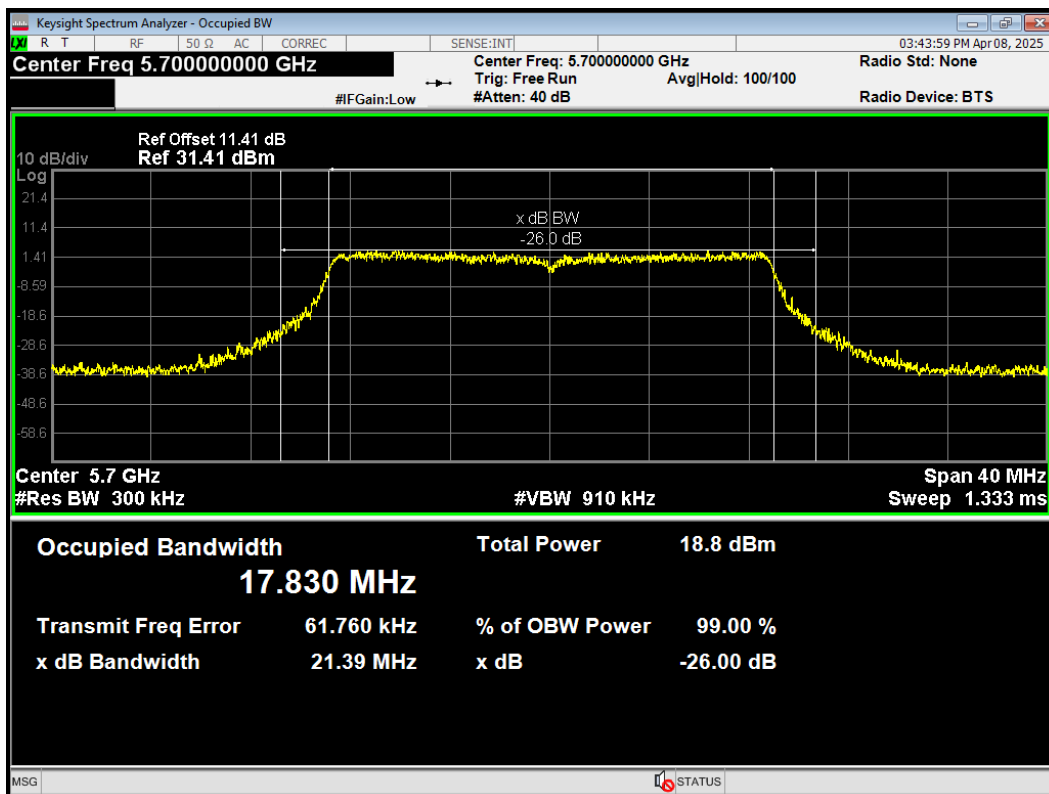


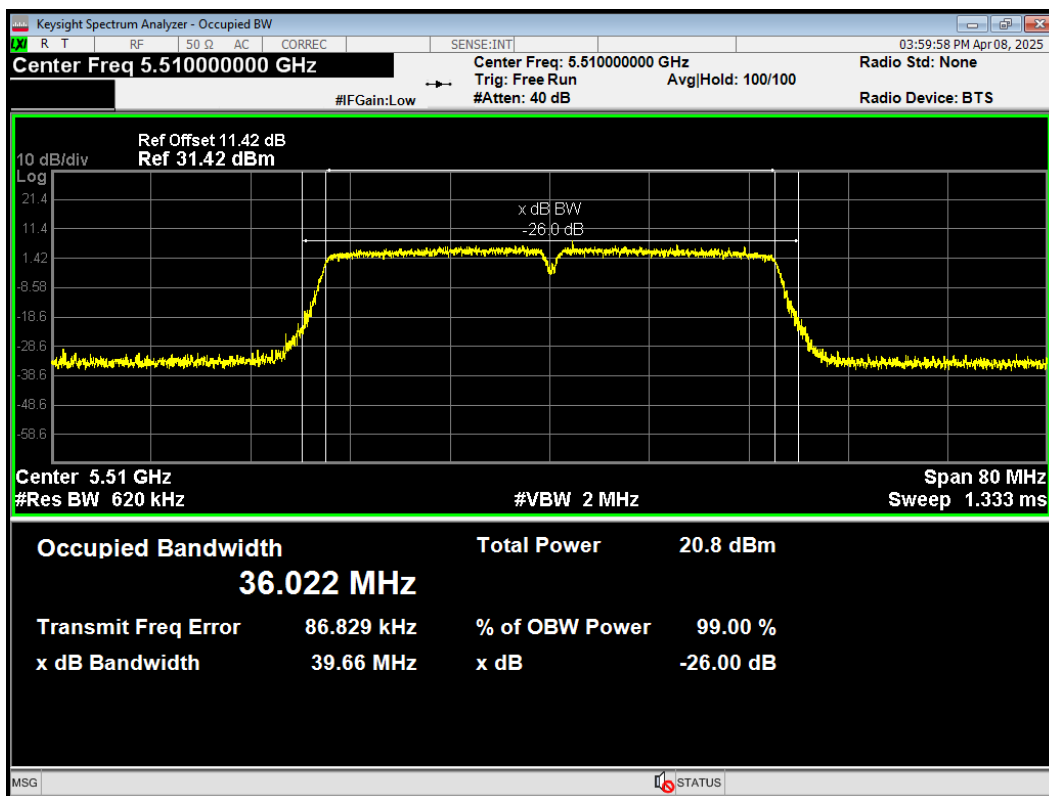
OBW 802.11n(HT20) 5580MHz



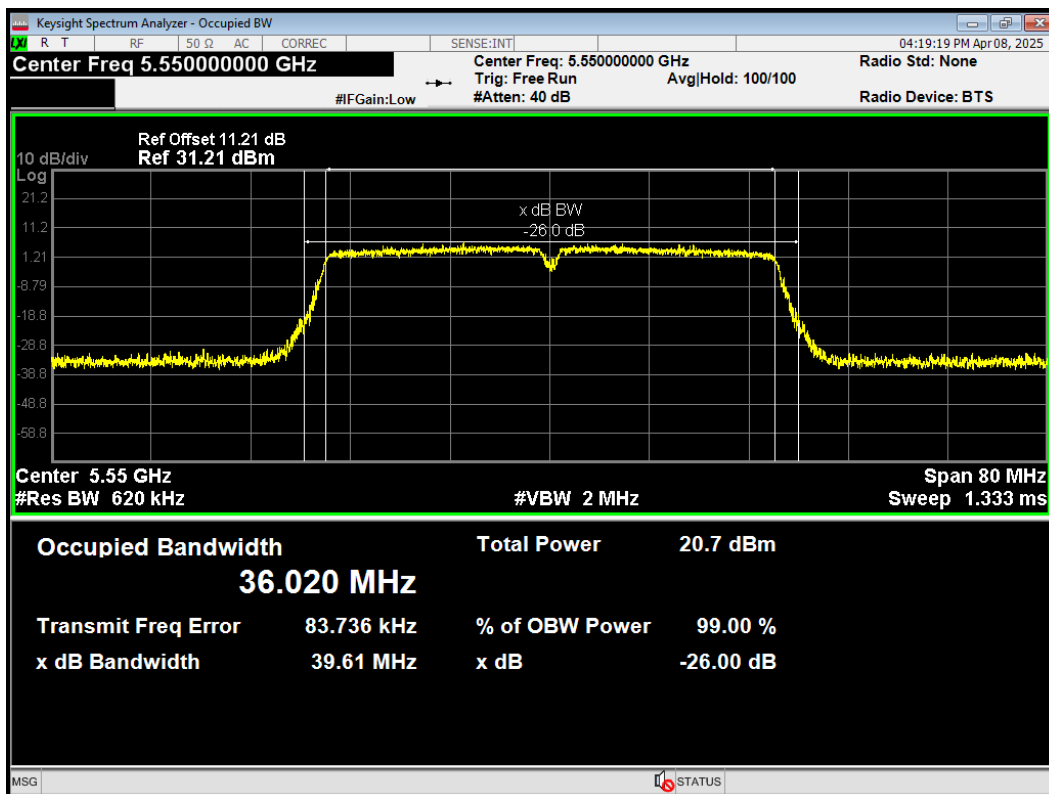
OBW 802.11n(HT20) 5700MHz



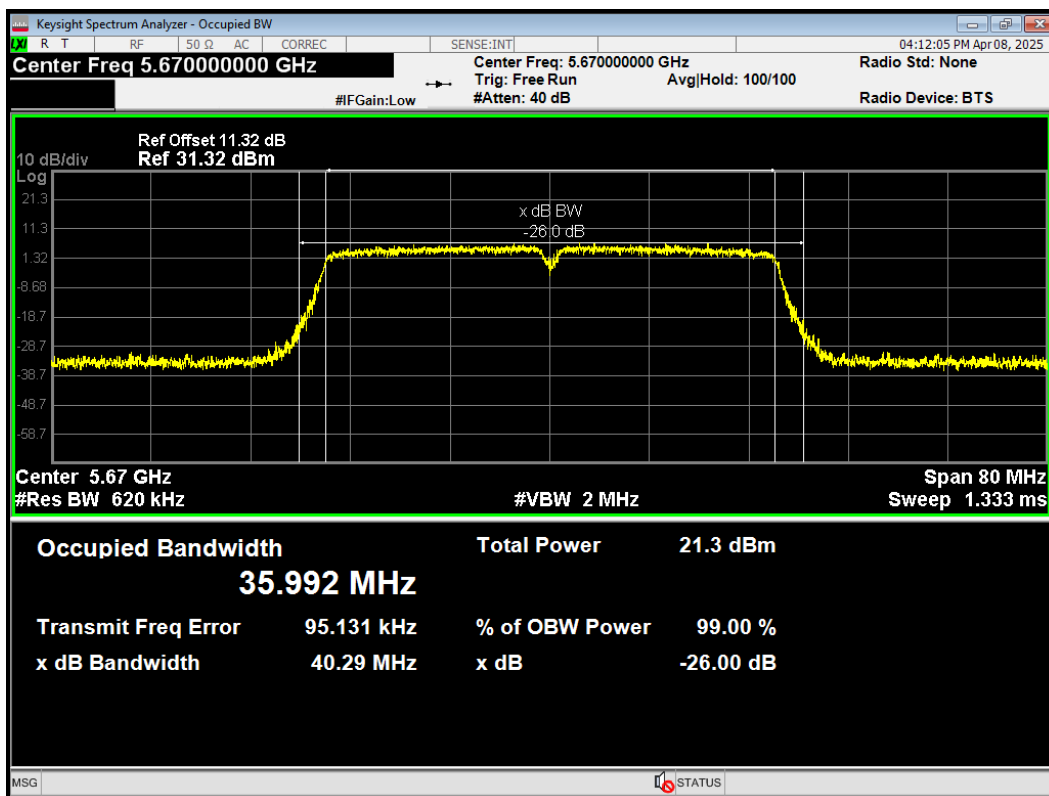
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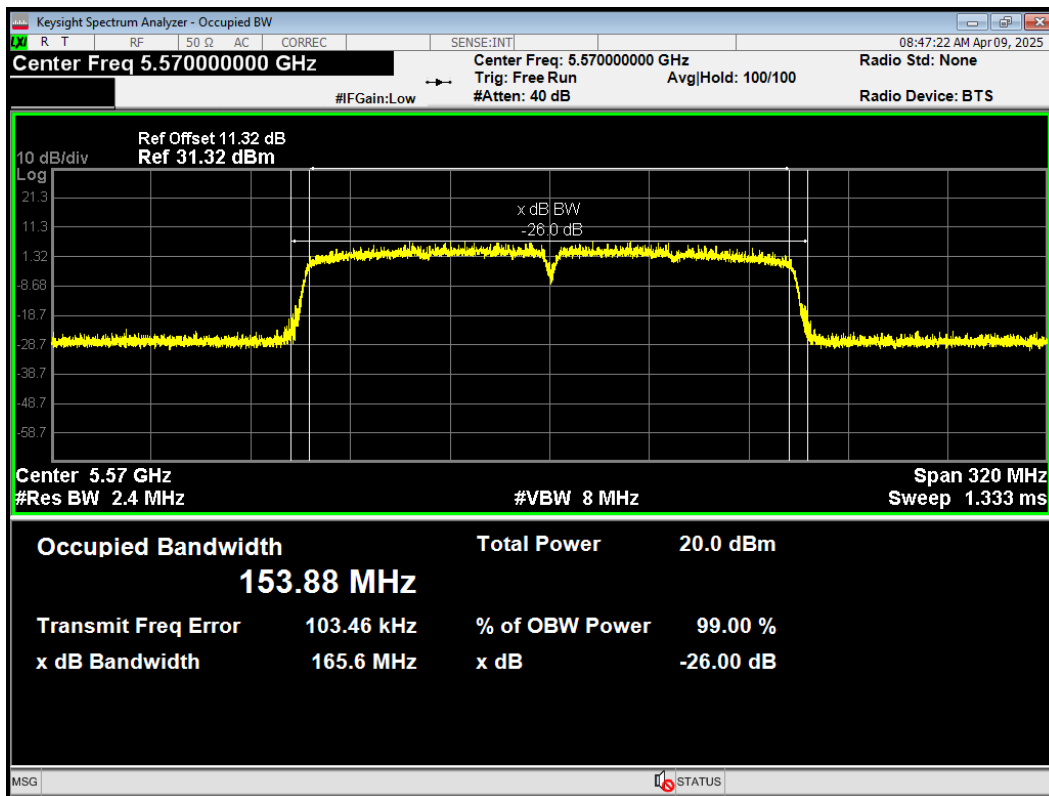
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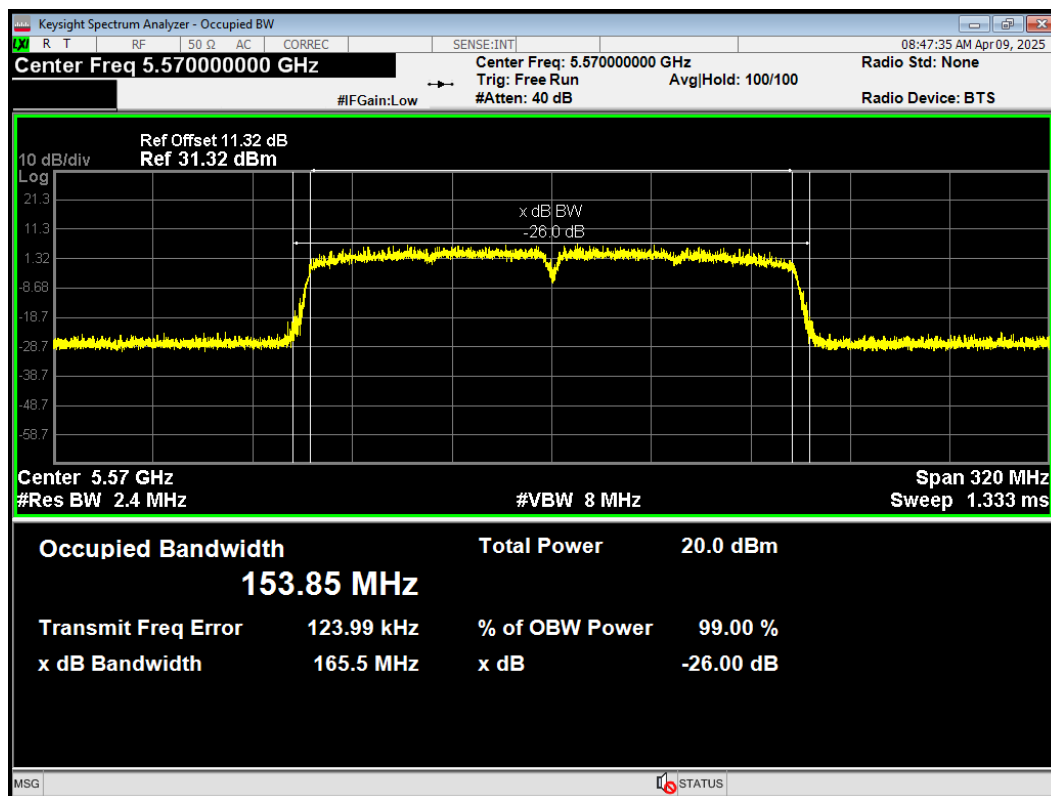
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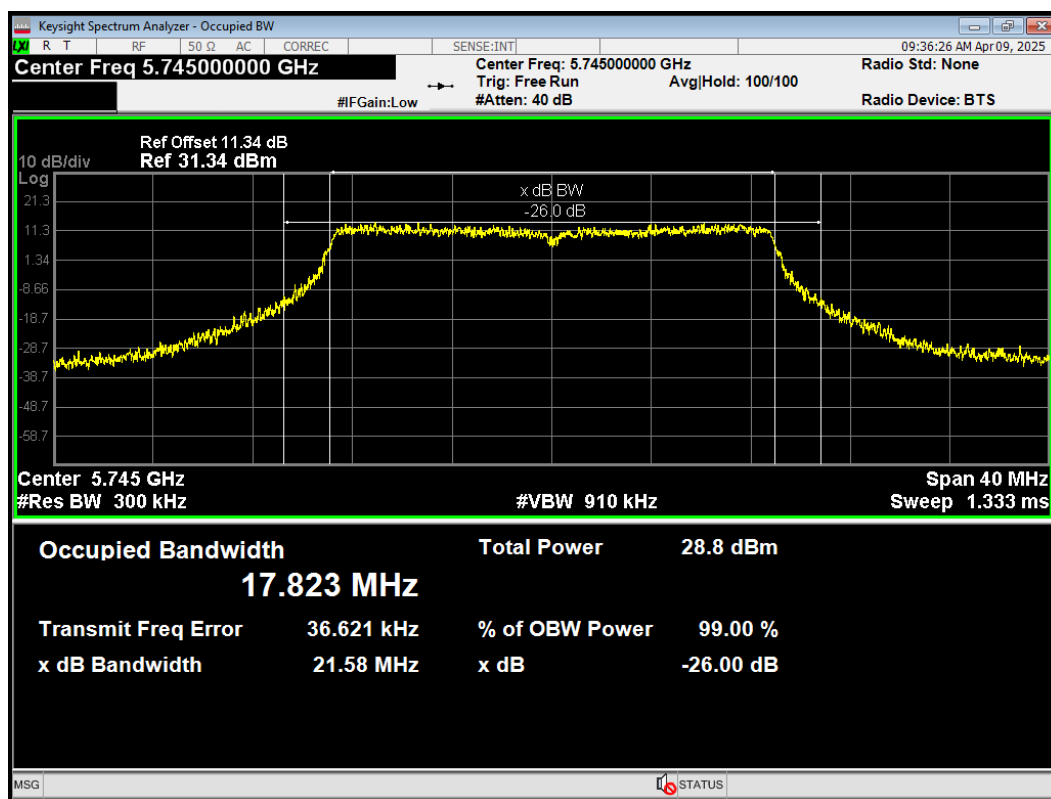
OBW 802.11ac(VHT160) 5570MHz



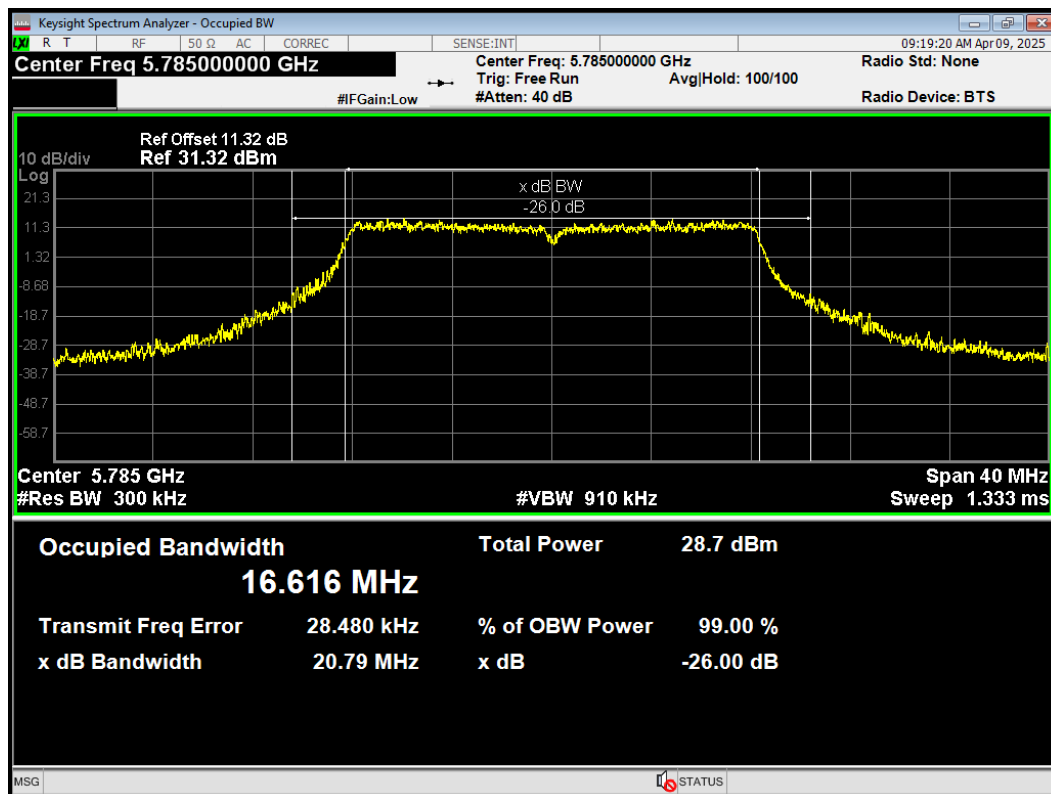
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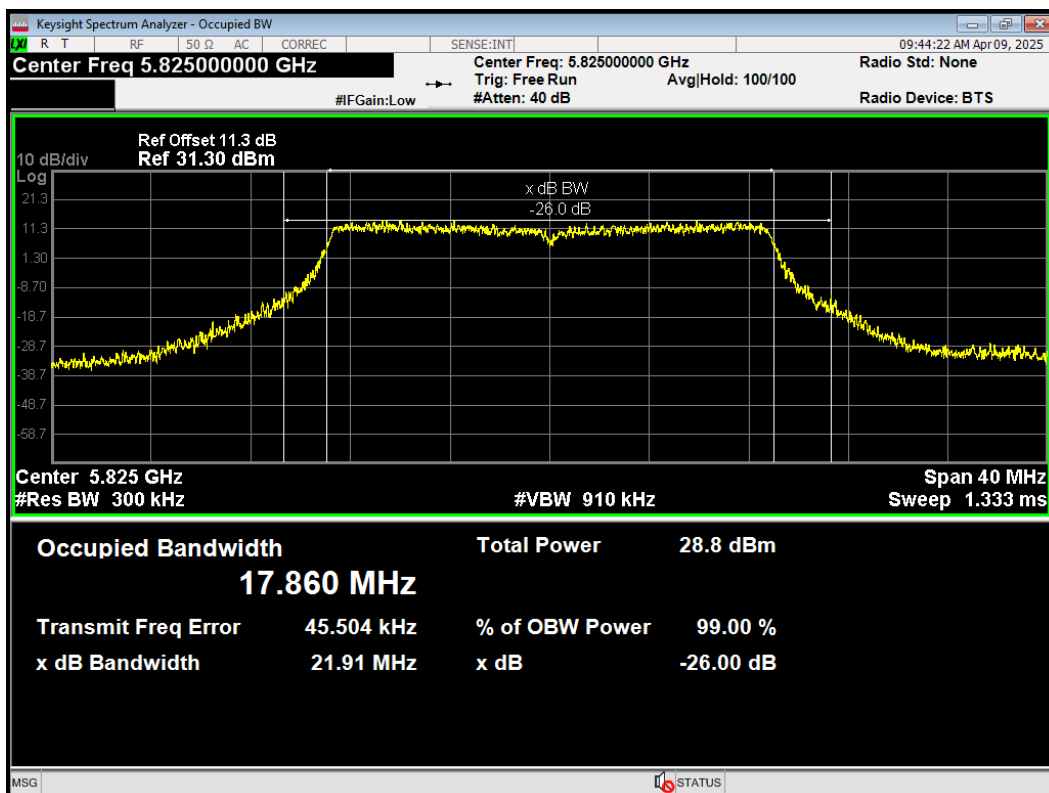
OBW 802.11a 5745MHz



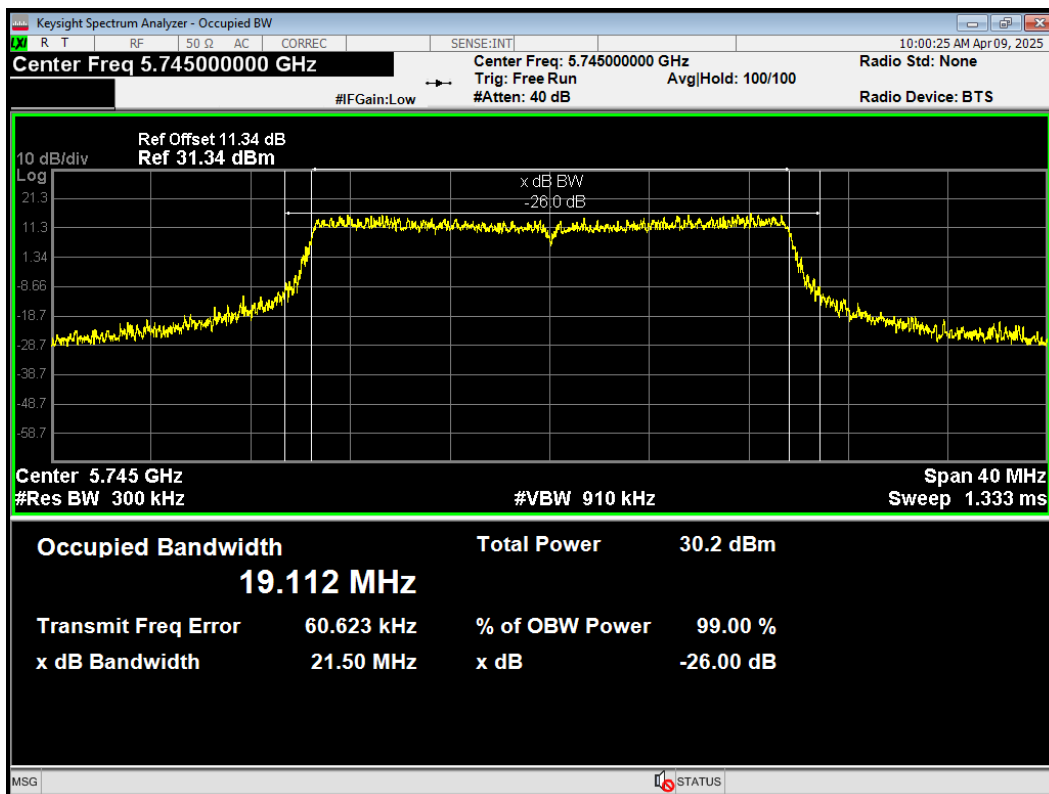
OBW 802.11a 5785MHz



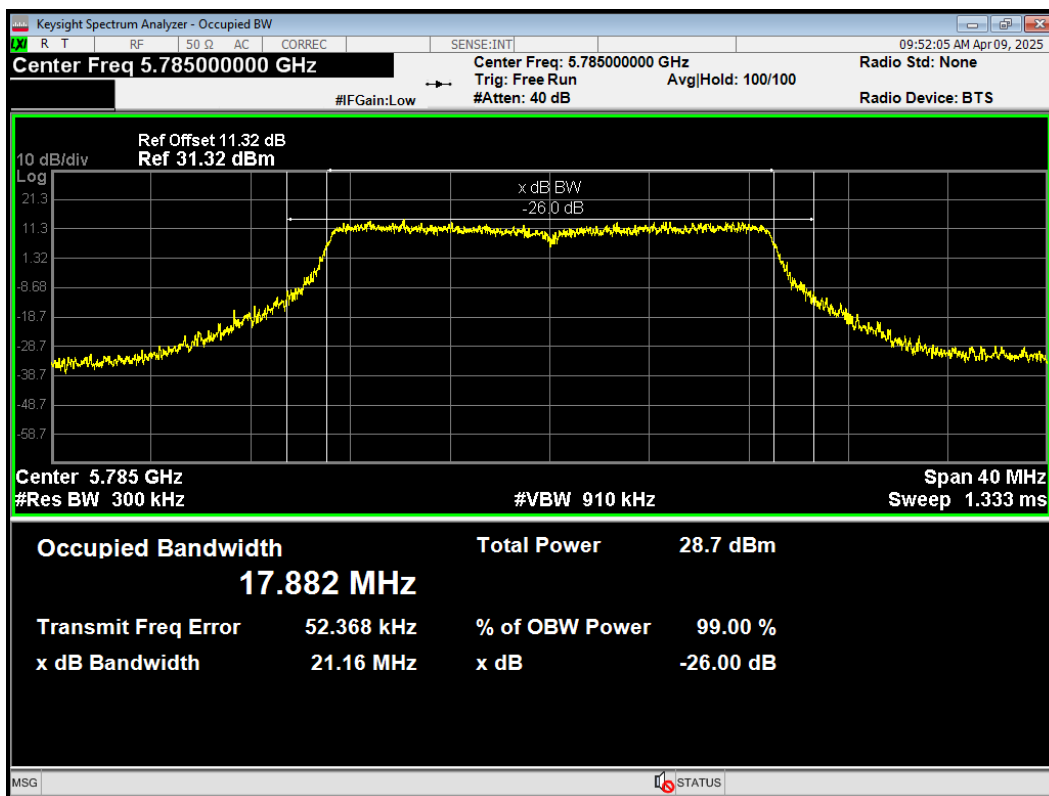
OBW 802.11a 5825MHz



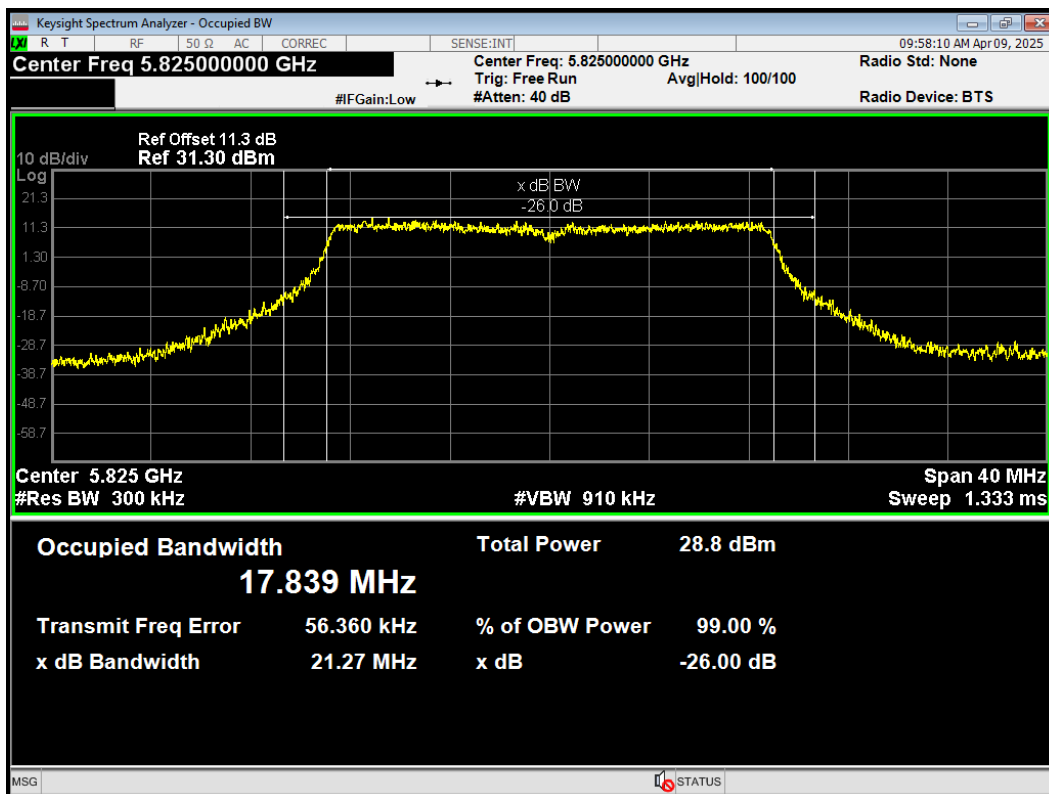
OBW 802.11ac(VHT20) 5745MHz



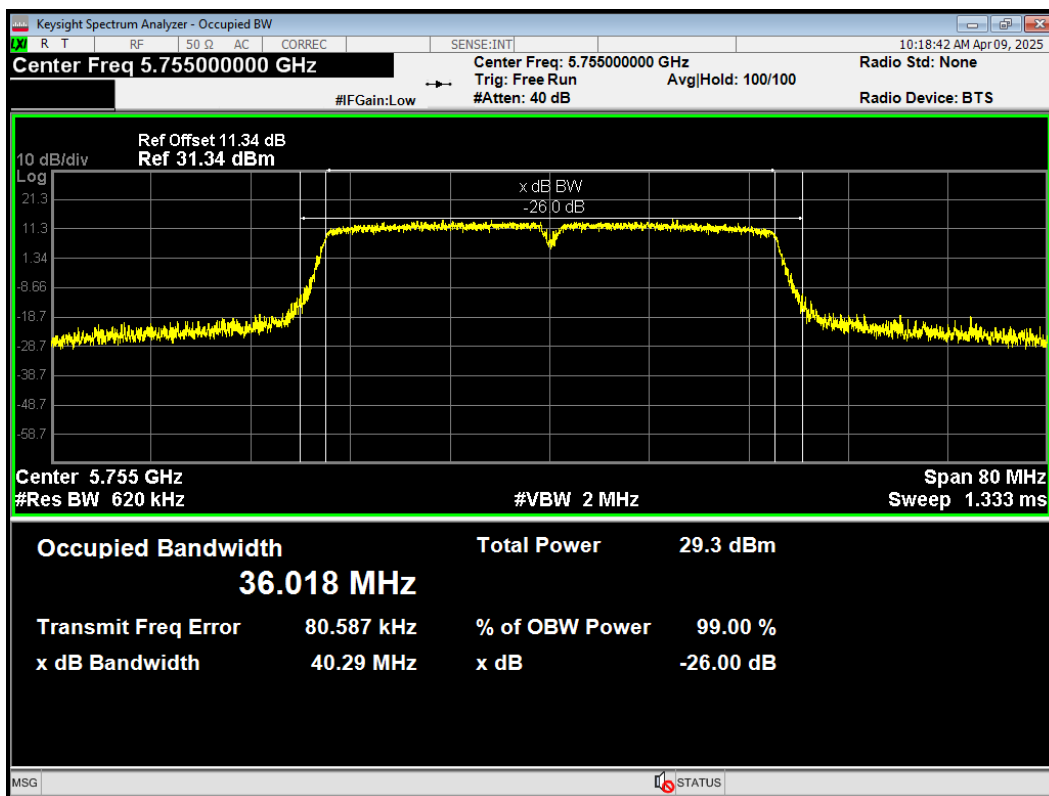
OBW 802.11ac(VHT20) 5785MHz



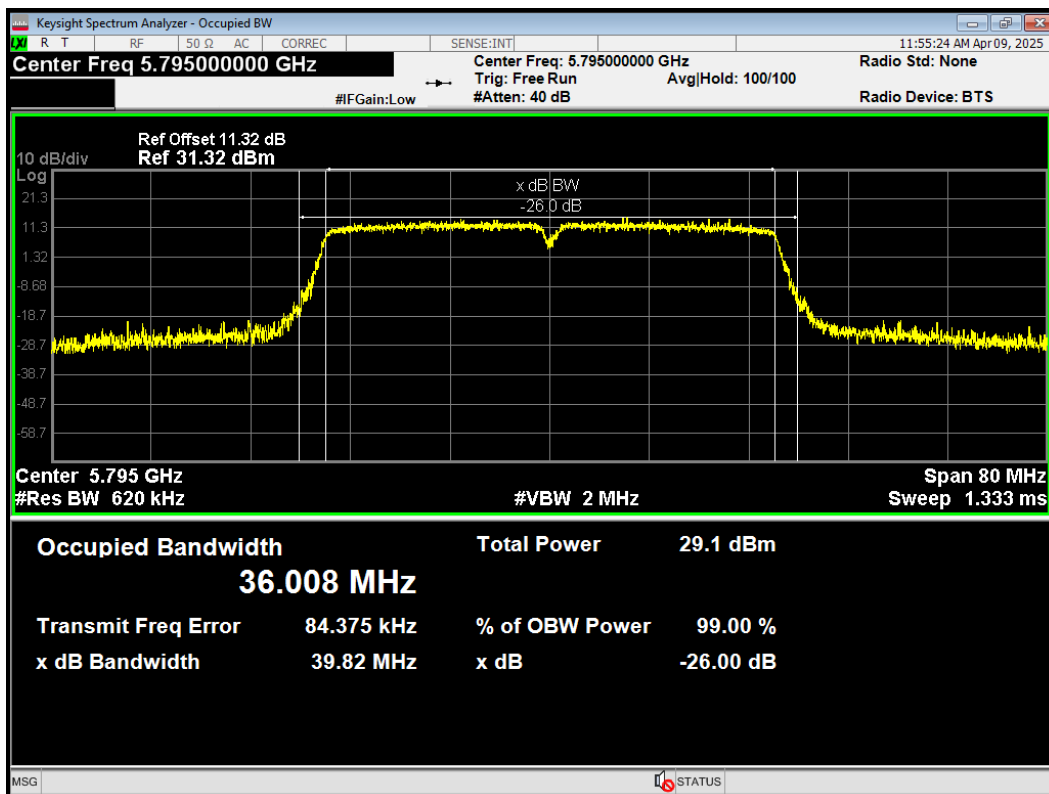
OBW 802.11ac(VHT20) 5825MHz



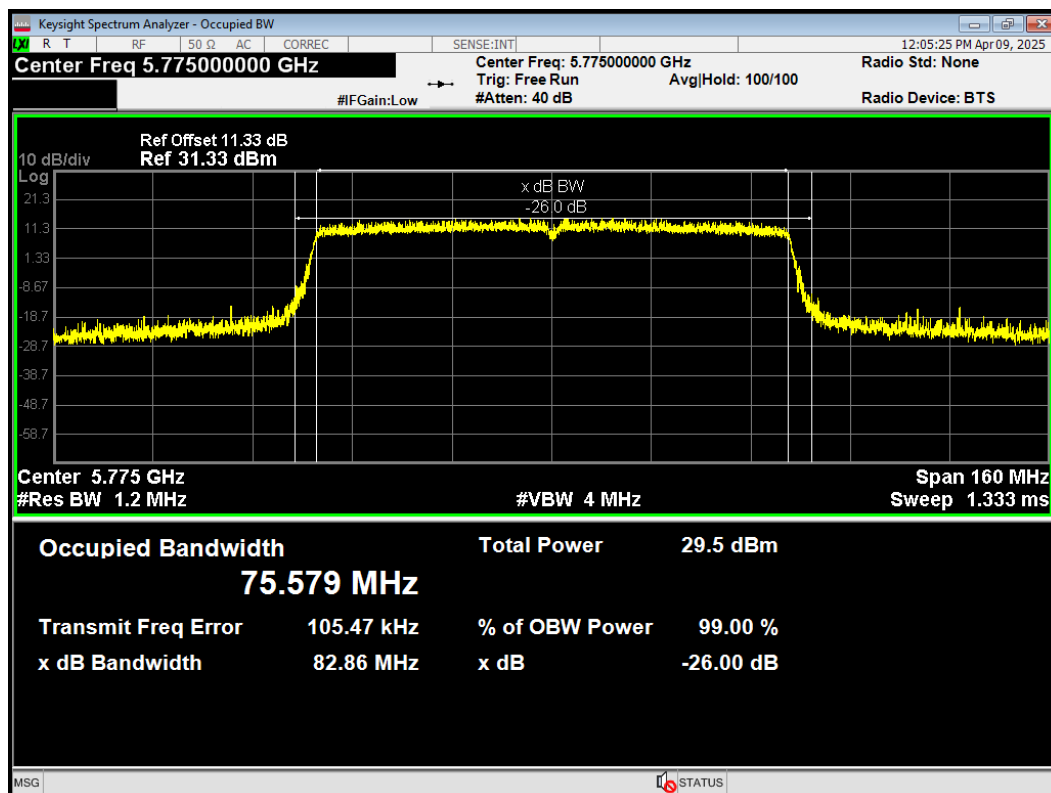
OBW 802.11ac(VHT40) 5755MHz



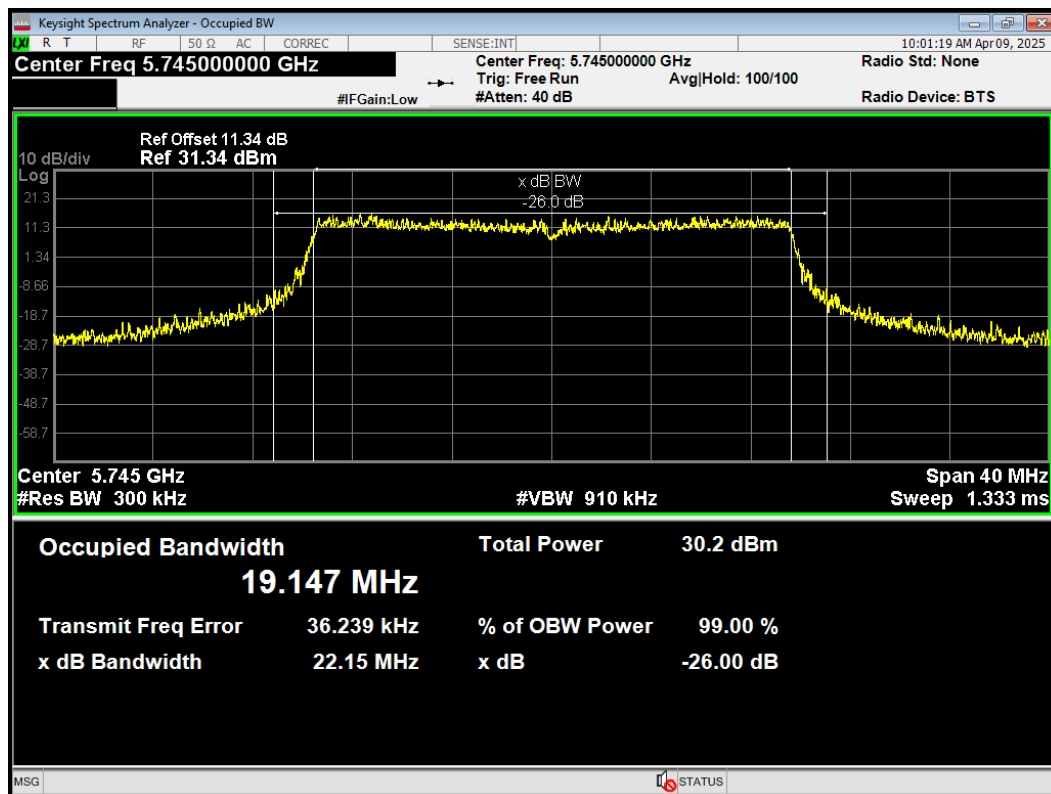
OBW 802.11ac(VHT40) 5795MHz



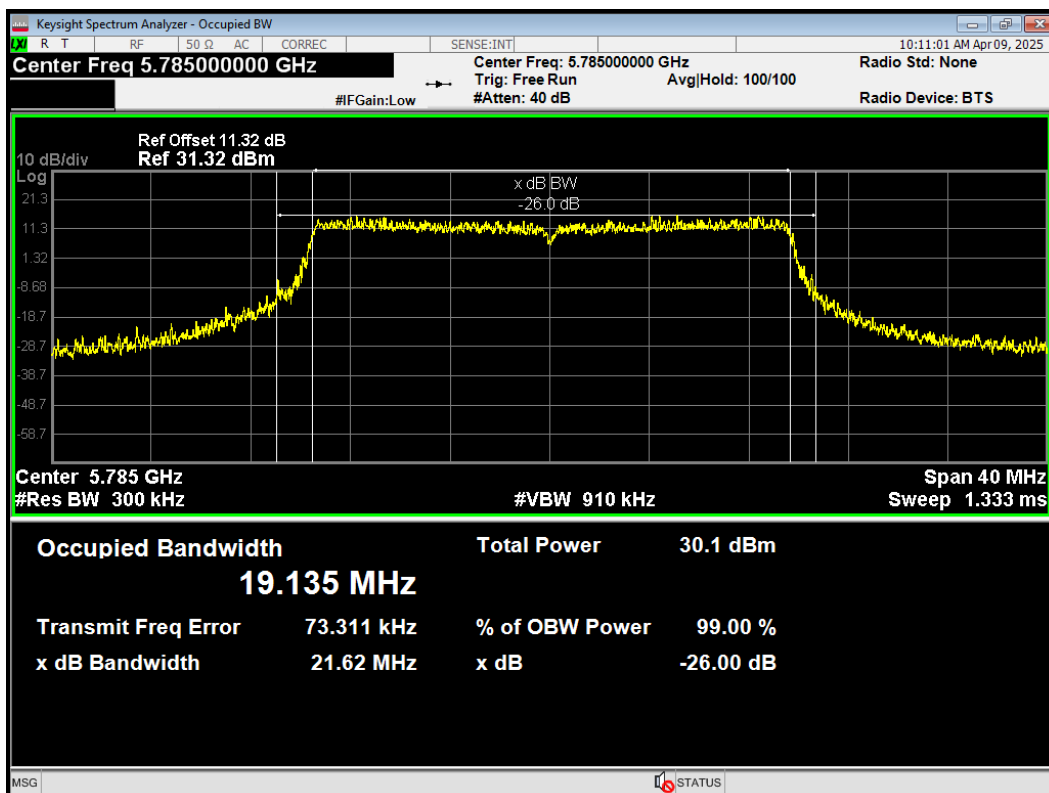
OBW 802.11ac(VHT80) 5775MHz



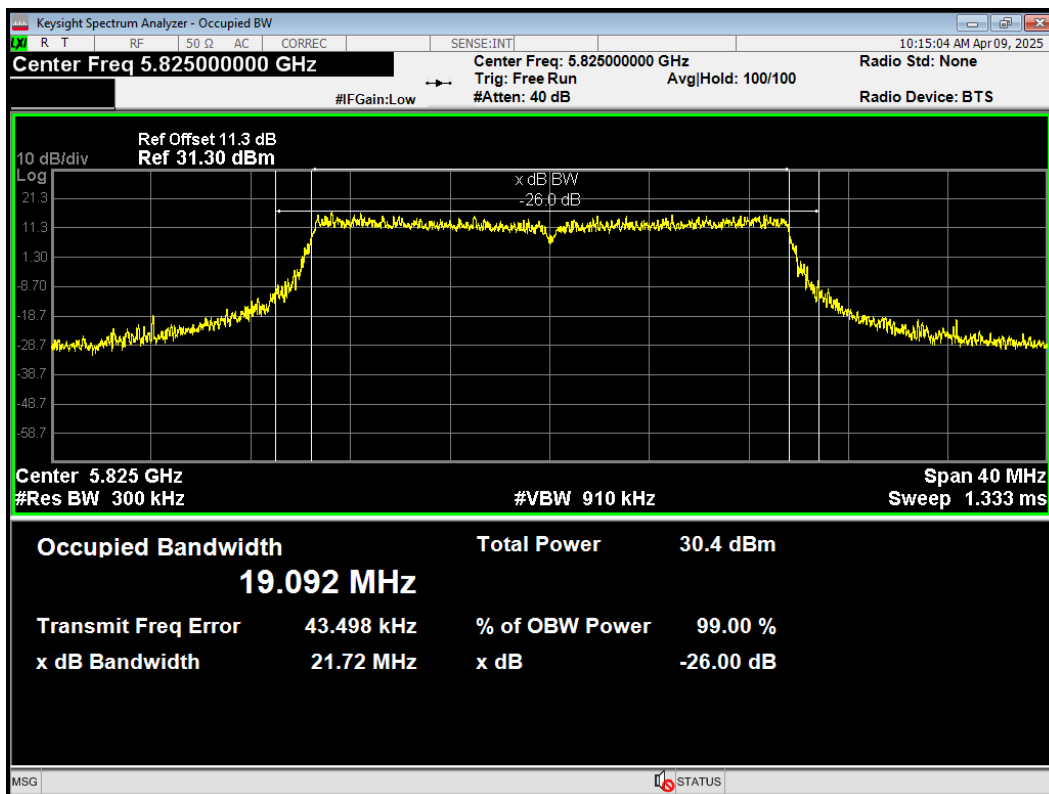
OBW 802.11ax(HE20) 5745MHz



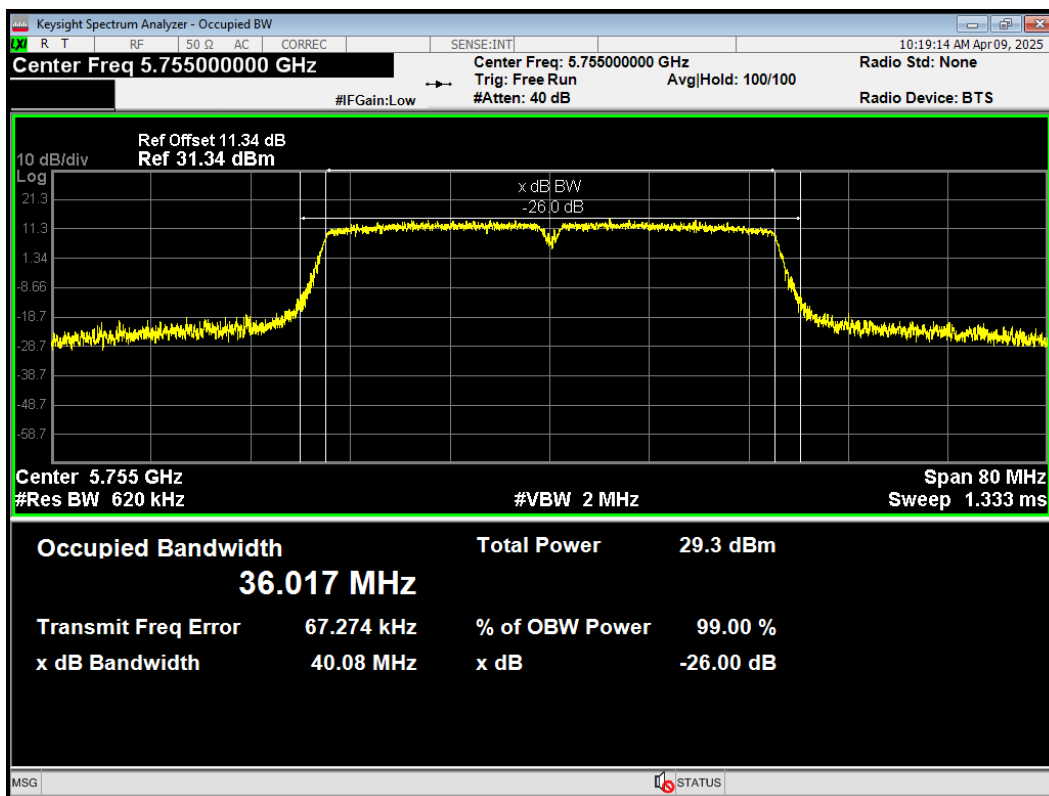
OBW 802.11ax(HE20) 5785MHz



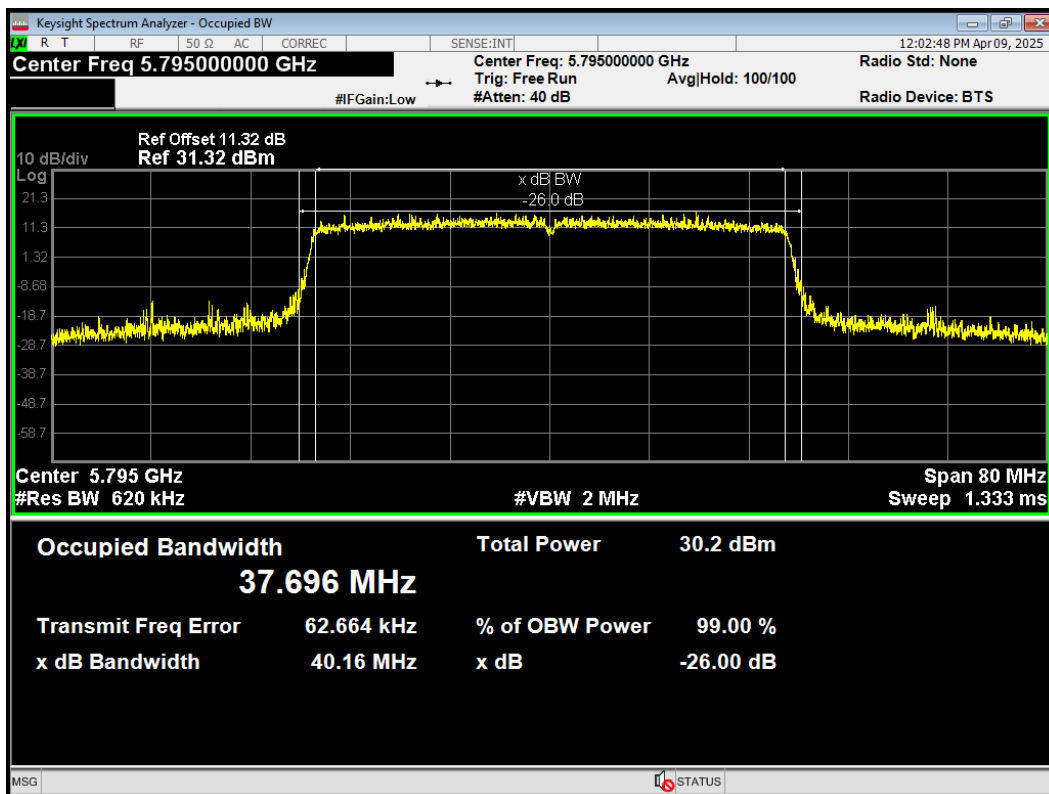
OBW 802.11ax(HE20) 5825MHz



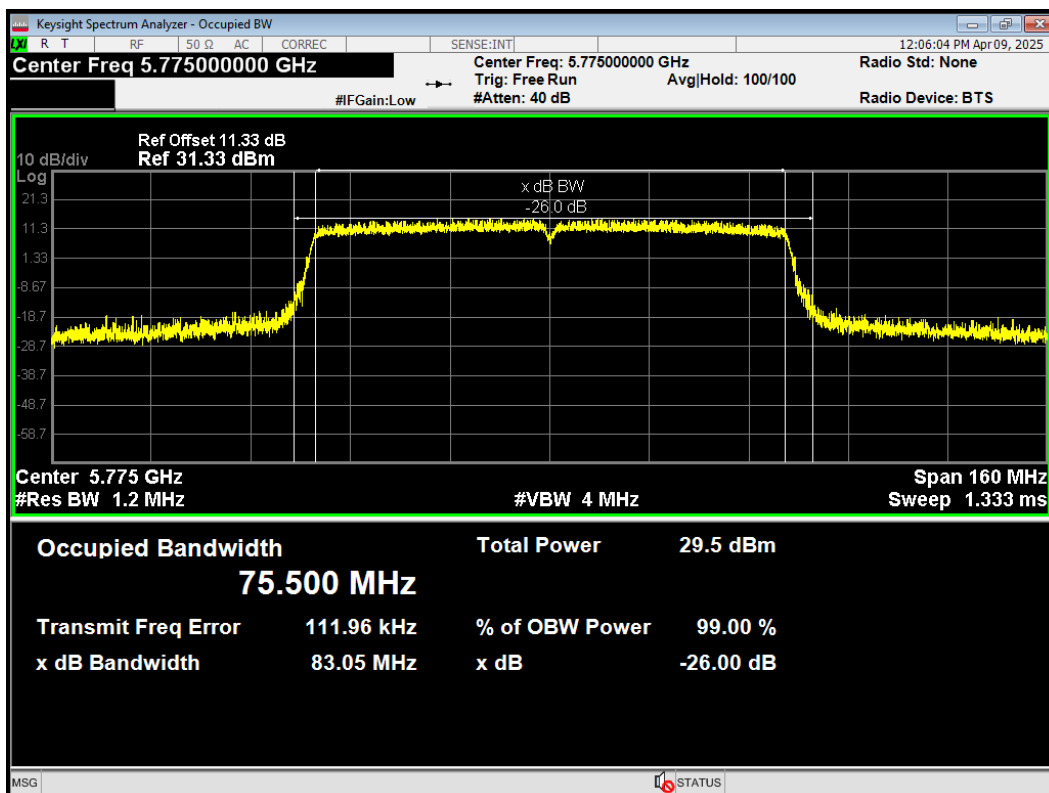
OBW 802.11ax(HE40) 5755MHz



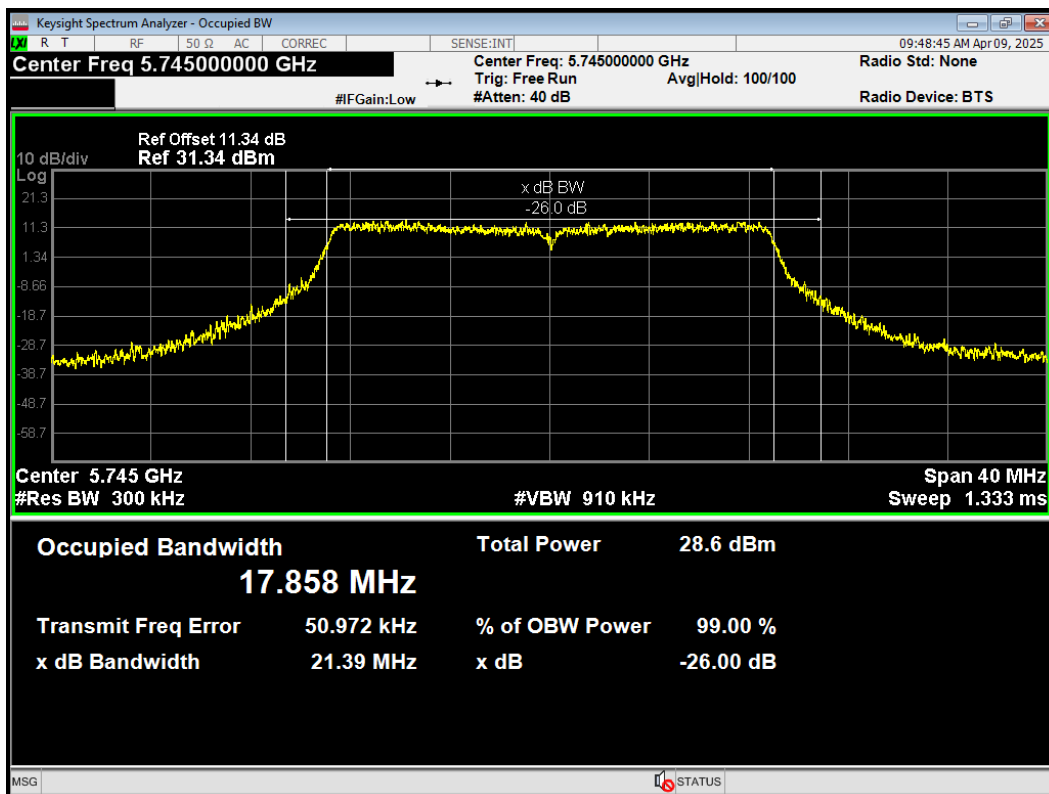
OBW 802.11ax(HE40) 5795MHz



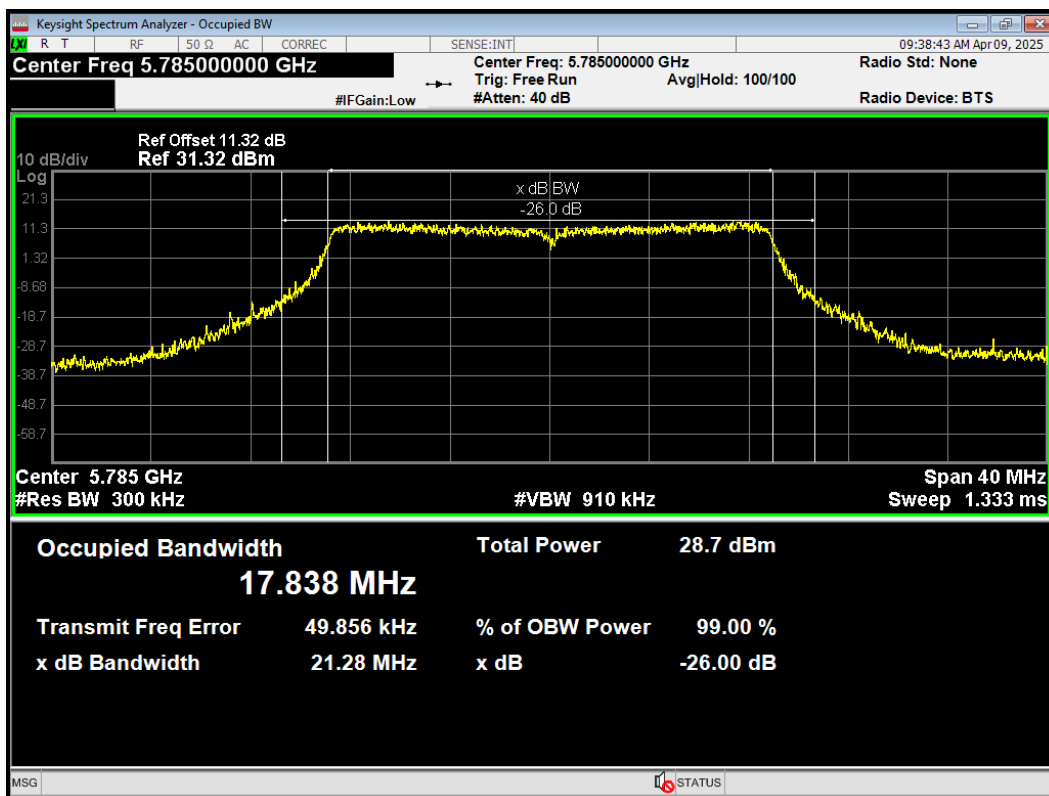
OBW 802.11ax(HE80) 5775MHz



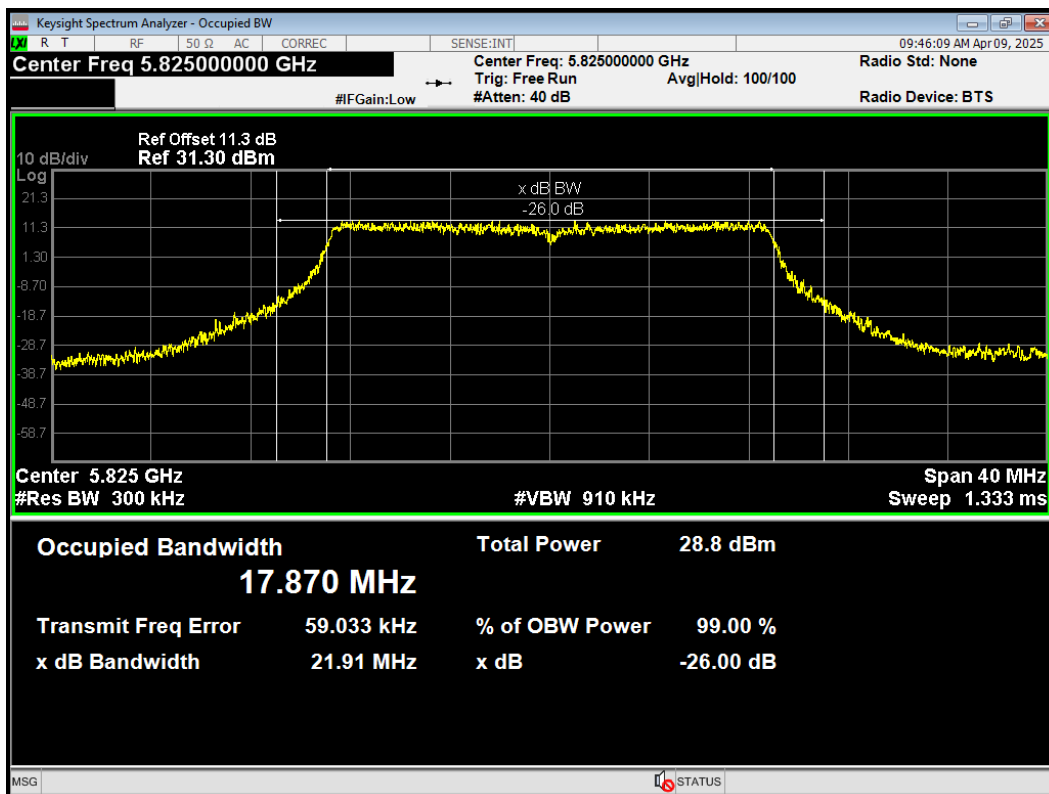
OBW 802.11n(HT20) 5745MHz



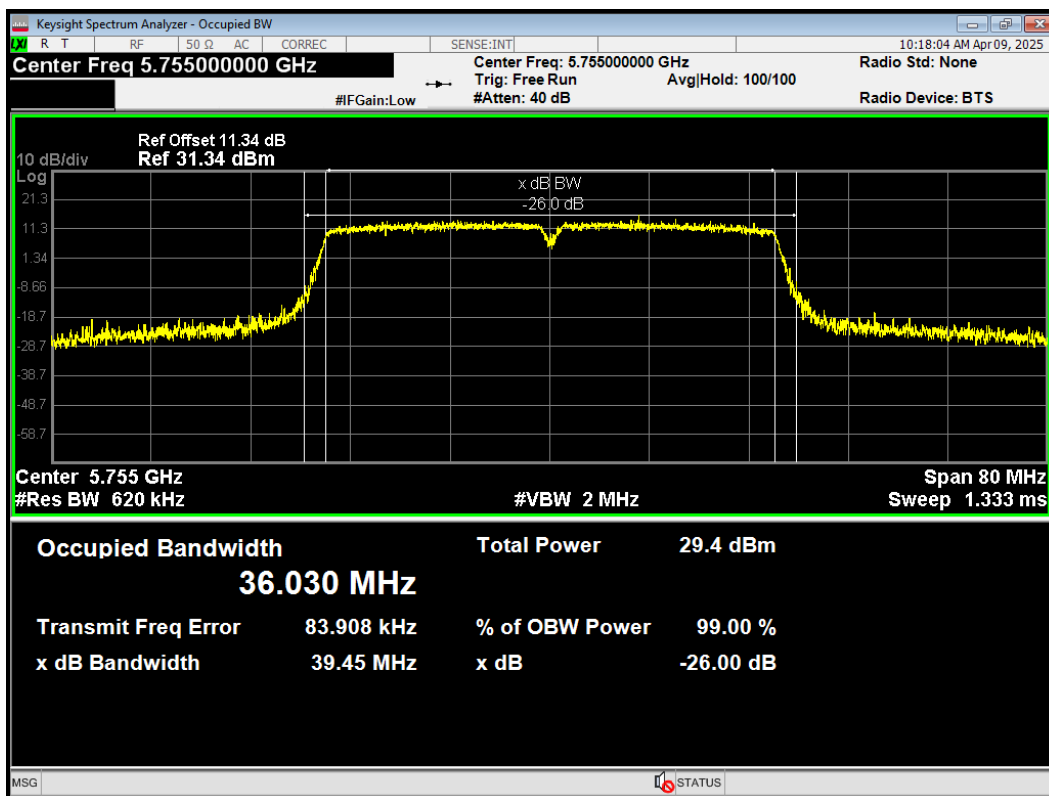
OBW 802.11n(HT20) 5785MHz



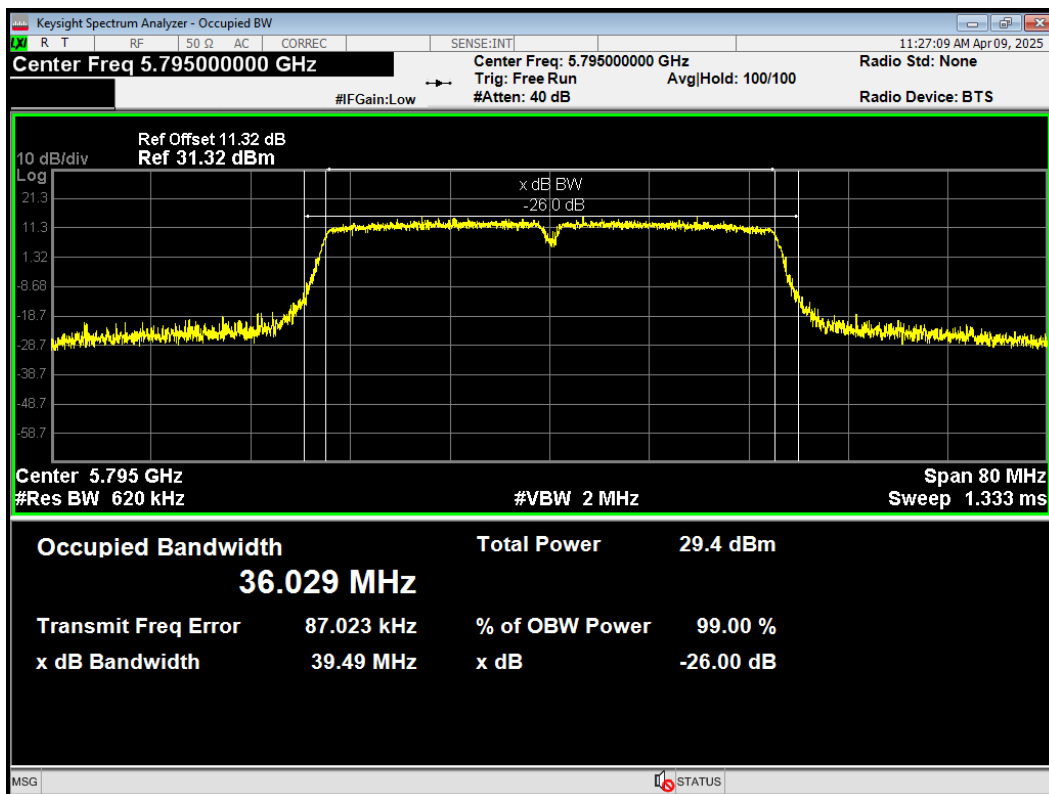
OBW 802.11n(HT20) 5825MHz



OBW 802.11n(HT40) 5755MHz



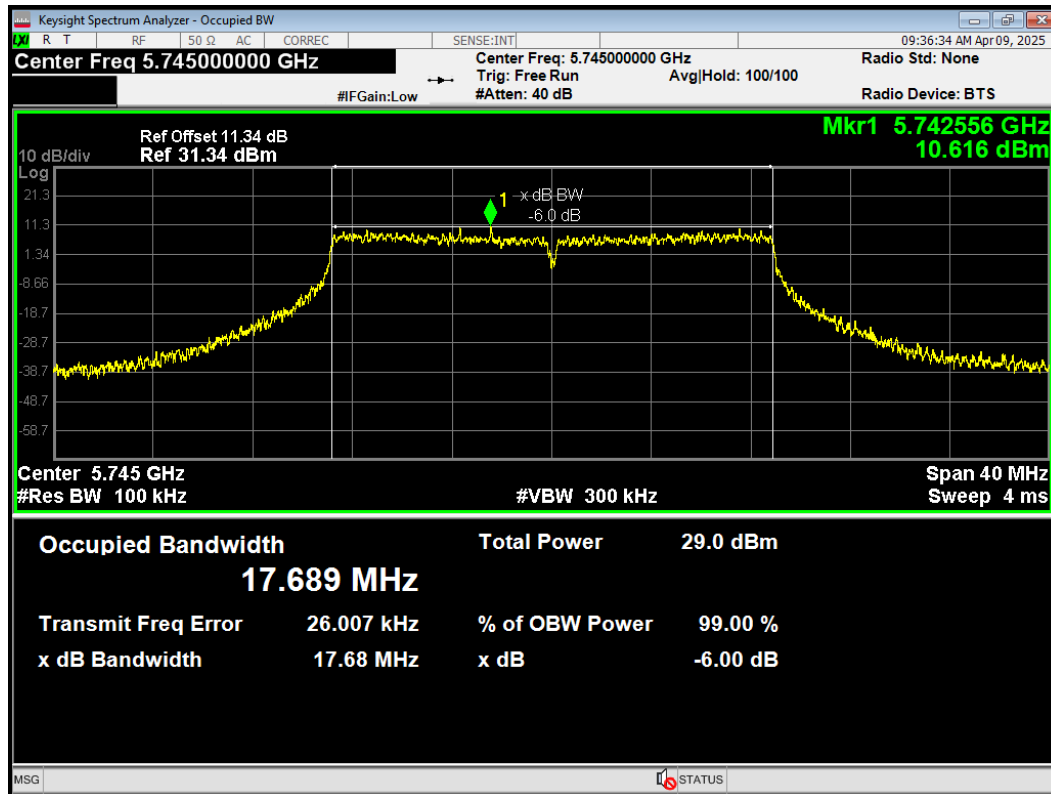
OBW 802.11n(HT40) 5795MHz



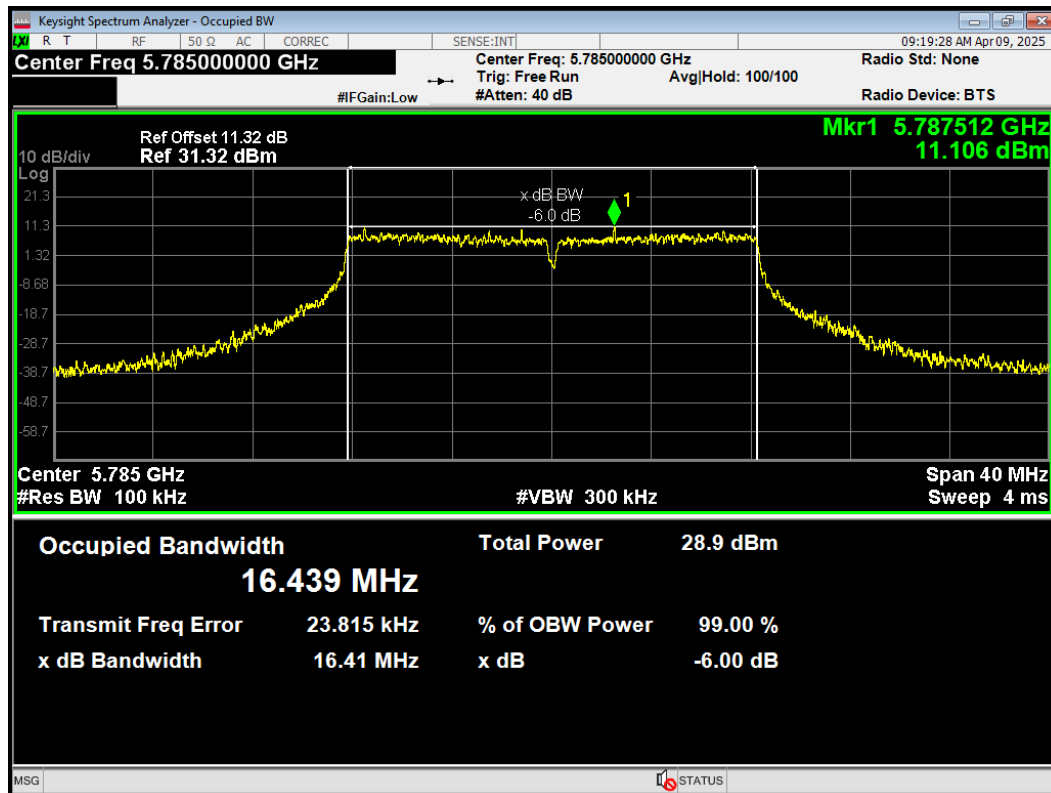
Minimum 6 dB bandwidth

U-NII-3

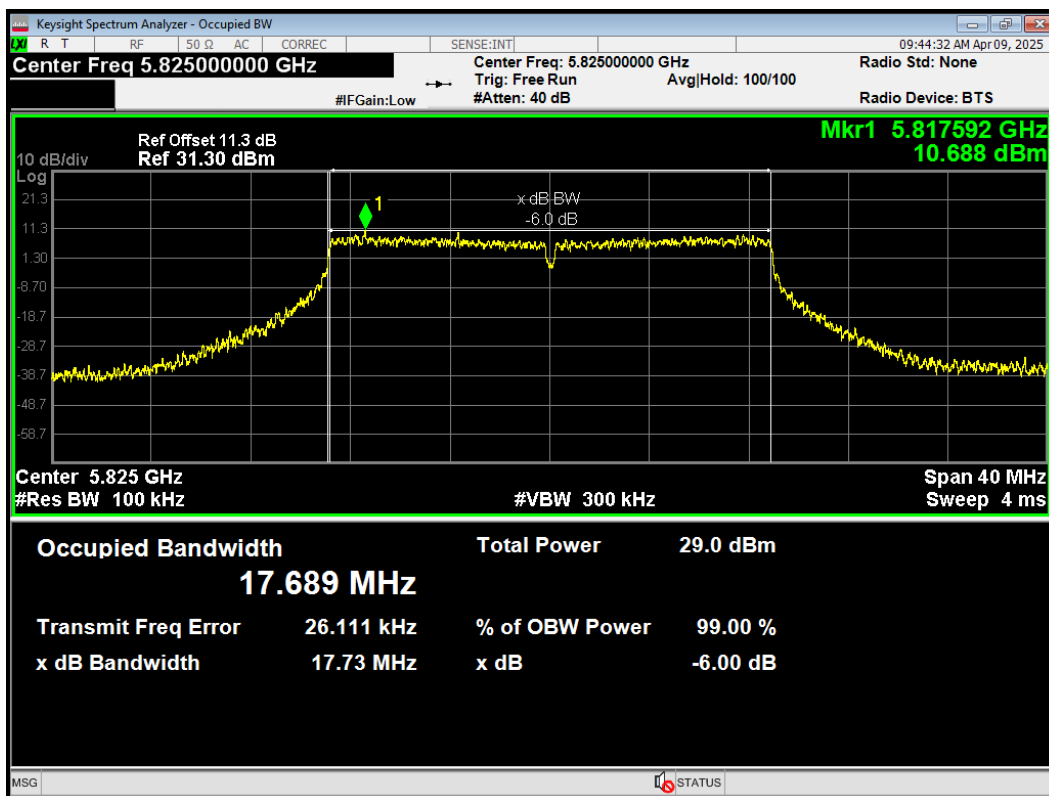
-6dB Bandwidth 802.11a 5745MHz



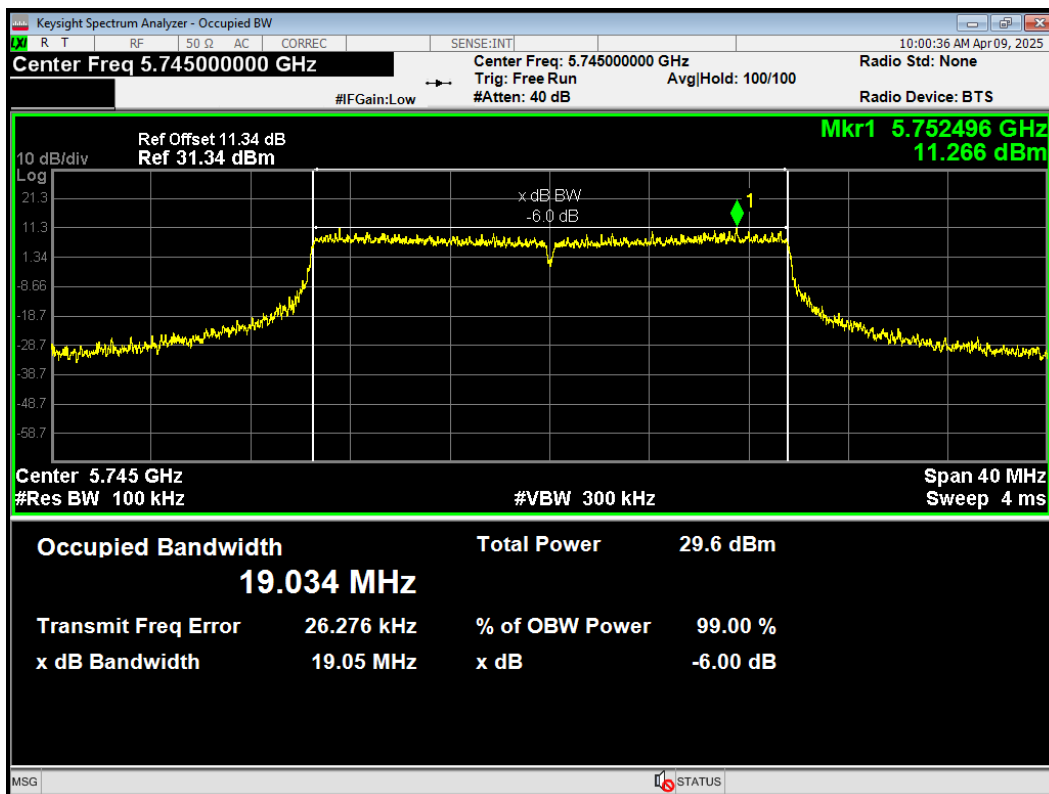
-6dB Bandwidth 802.11a 5785MHz



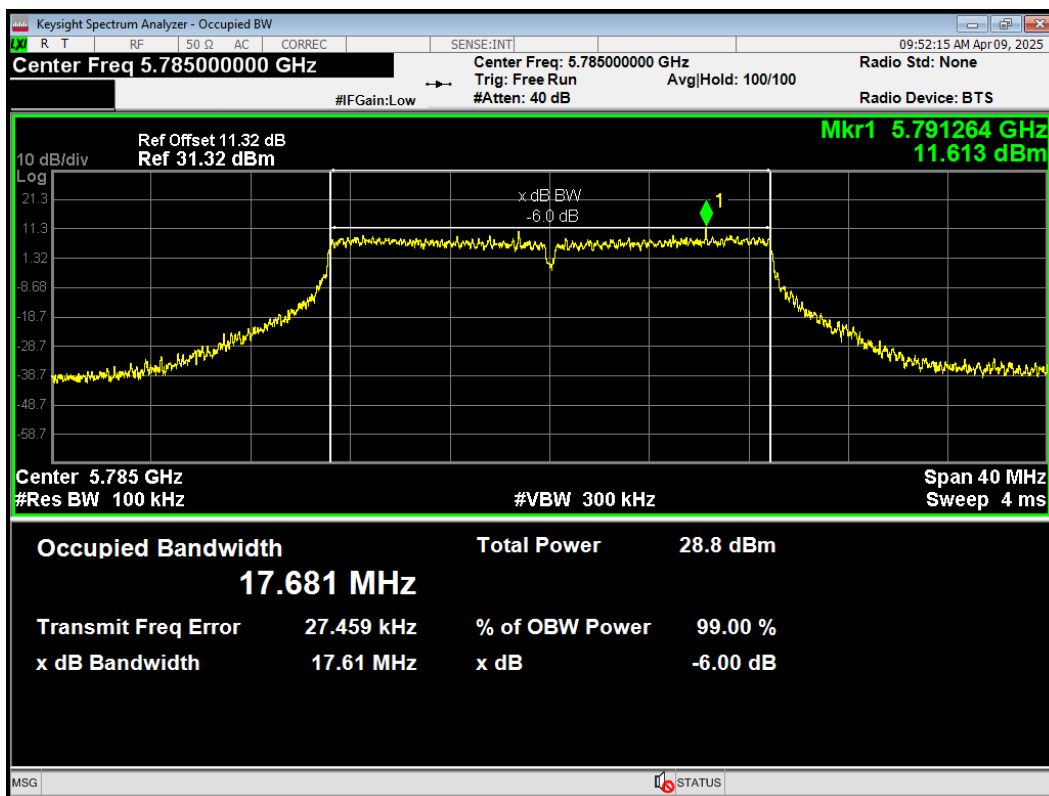
-6dB Bandwidth 802.11a 5825MHz



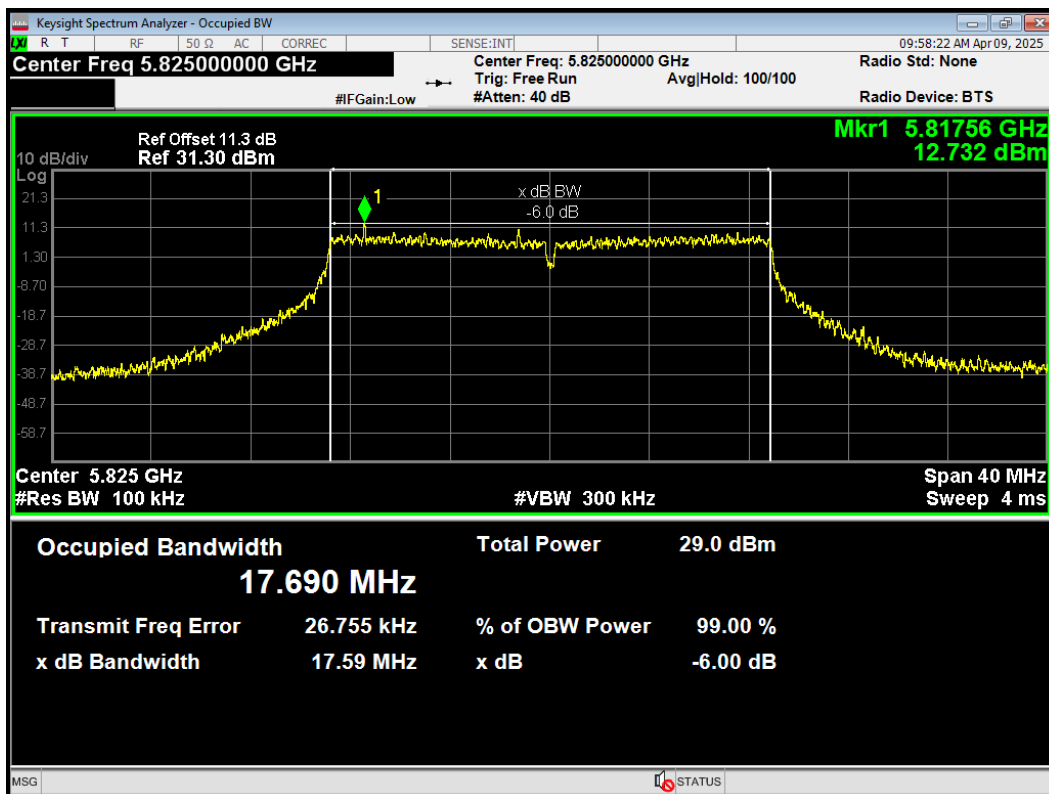
-6dB Bandwidth 802.11ac(VHT20) 5745MHz



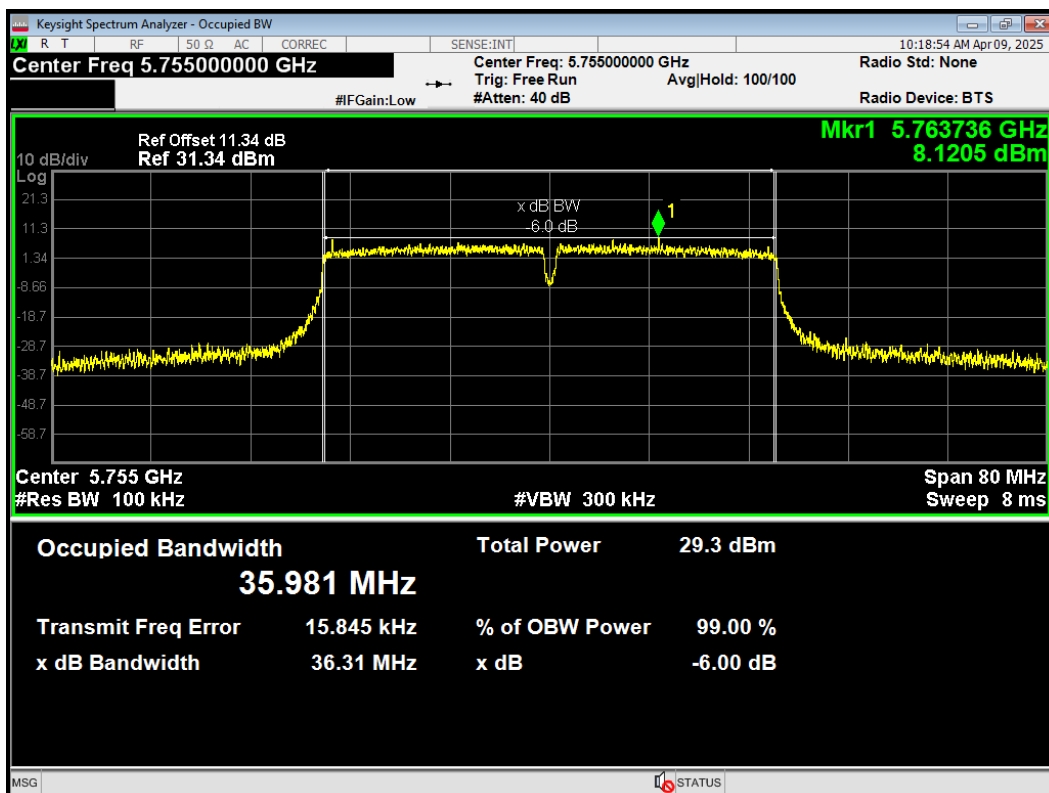
-6dB Bandwidth 802.11ac(VHT20) 5785MHz



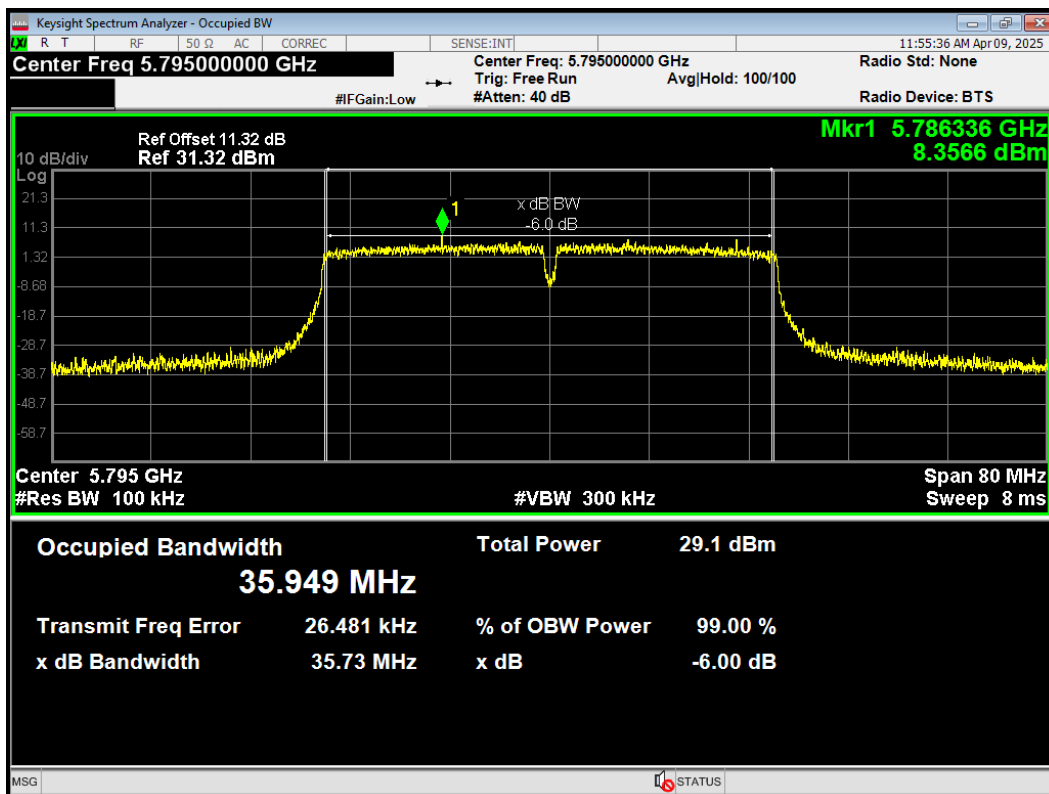
-6dB Bandwidth 802.11ac(VHT20) 5825MHz



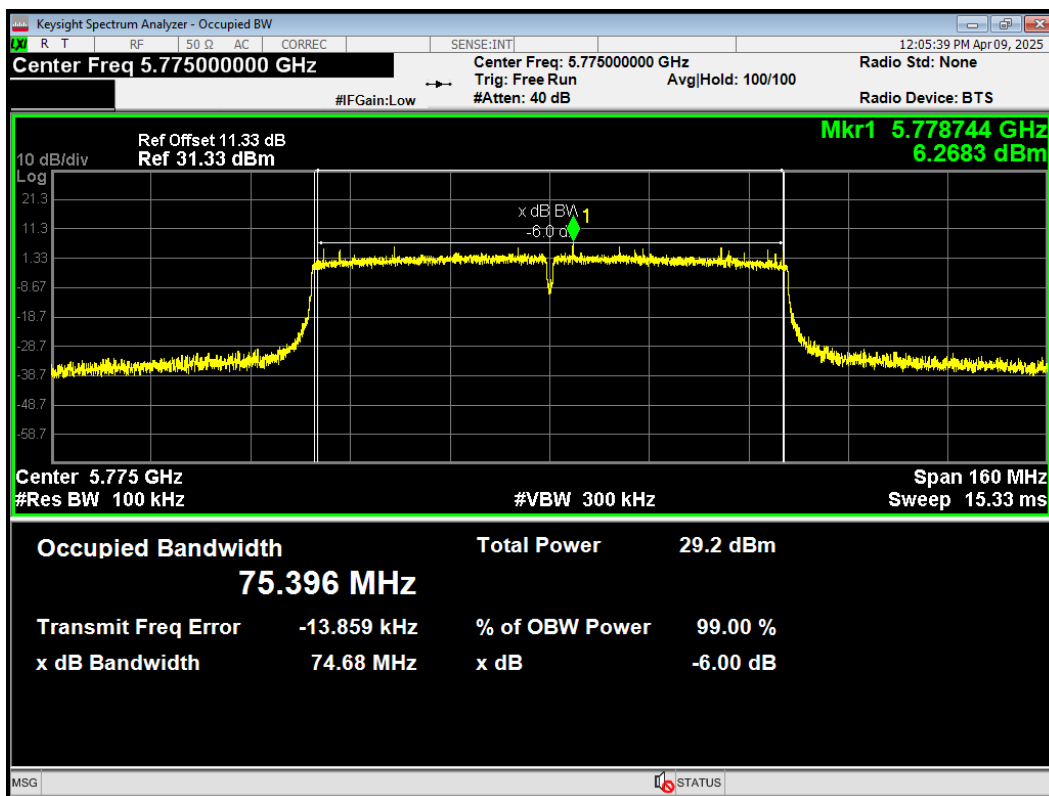
-6dB Bandwidth 802.11ac(VHT40) 5755MHz



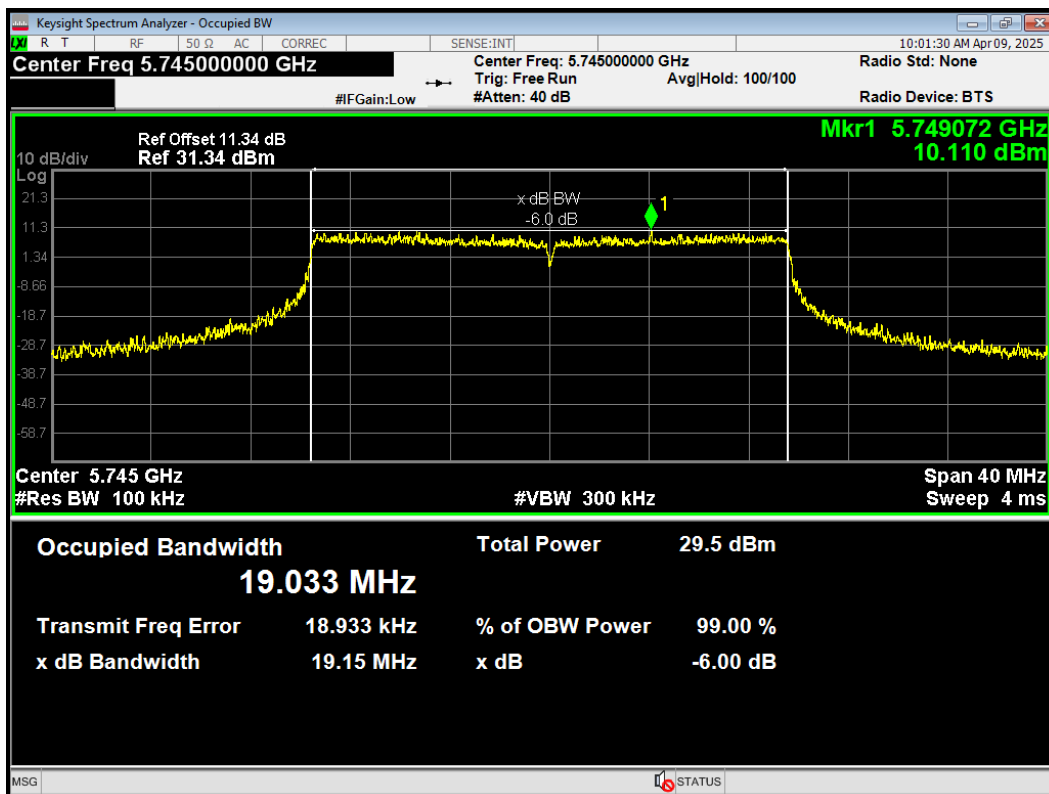
-6dB Bandwidth 802.11ac(VHT40) 5795MHz



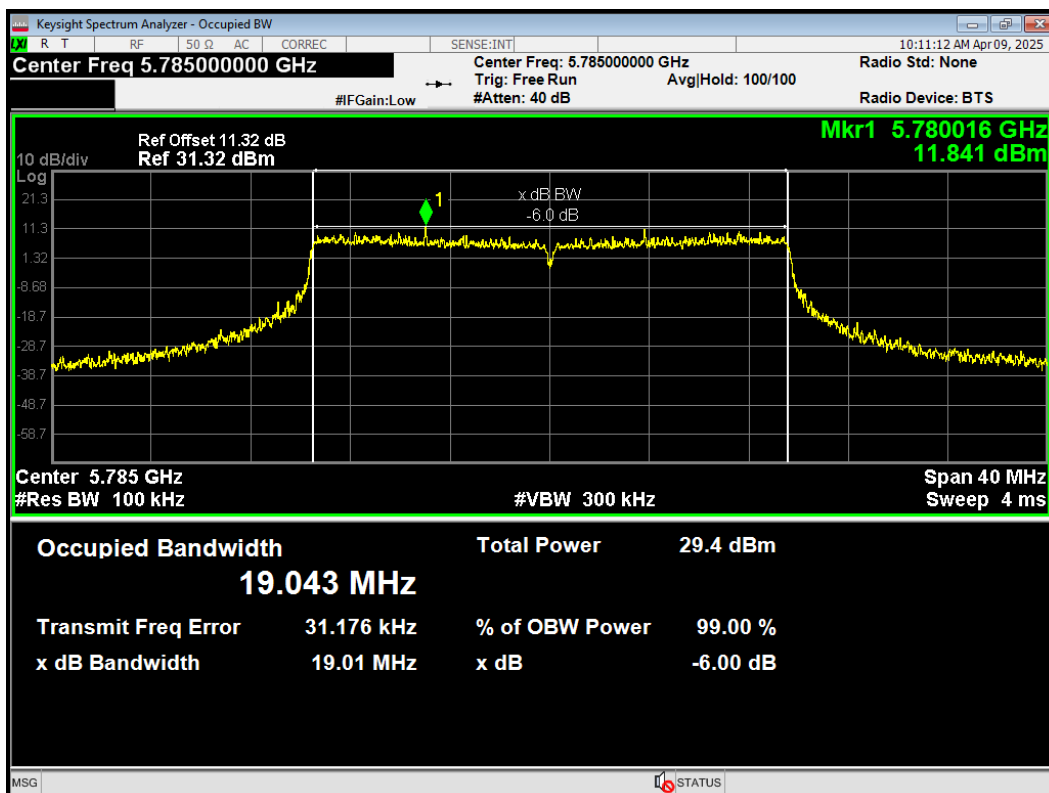
-6dB Bandwidth 802.11ac(VHT80) 5775MHz



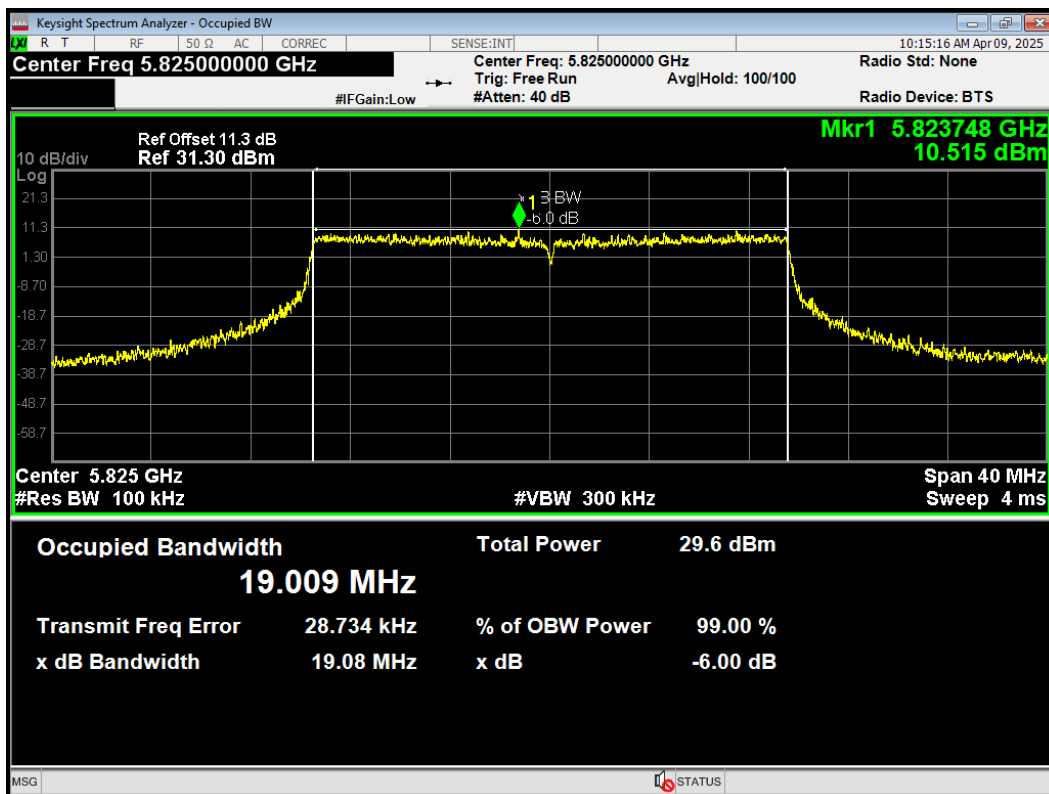
-6dB Bandwidth 802.11ax(HE20) 5745MHz



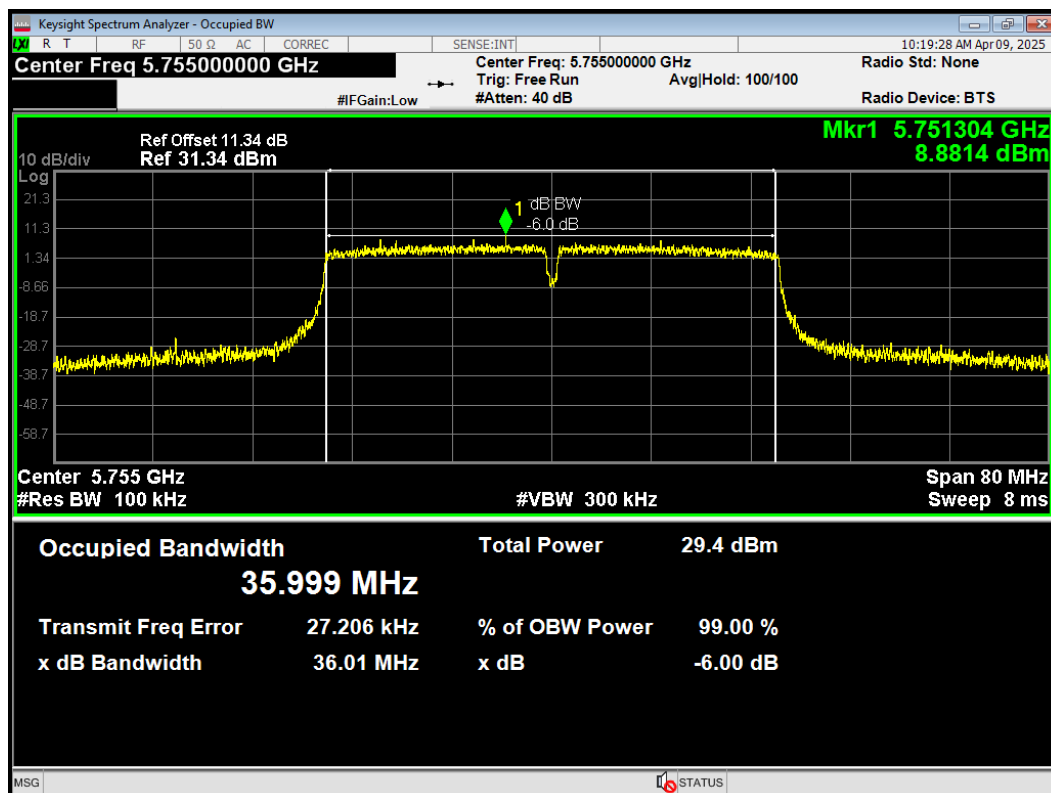
-6dB Bandwidth 802.11ax(HE20) 5785MHz



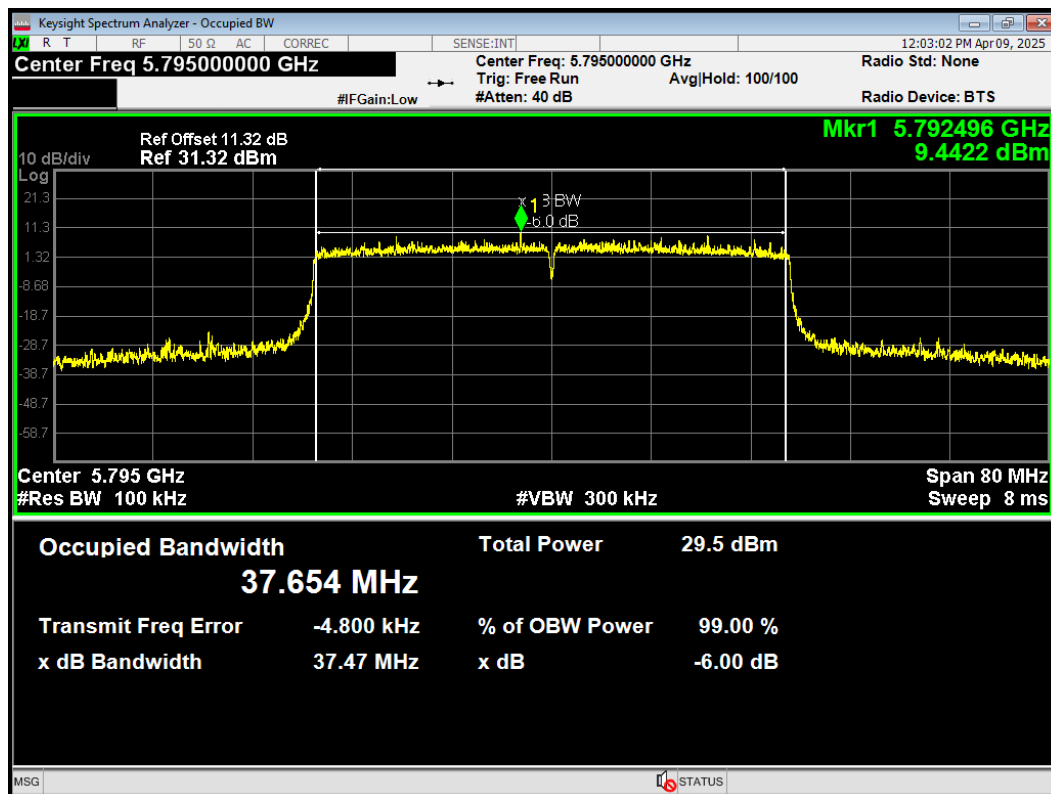
-6dB Bandwidth 802.11ax(HE20) 5825MHz



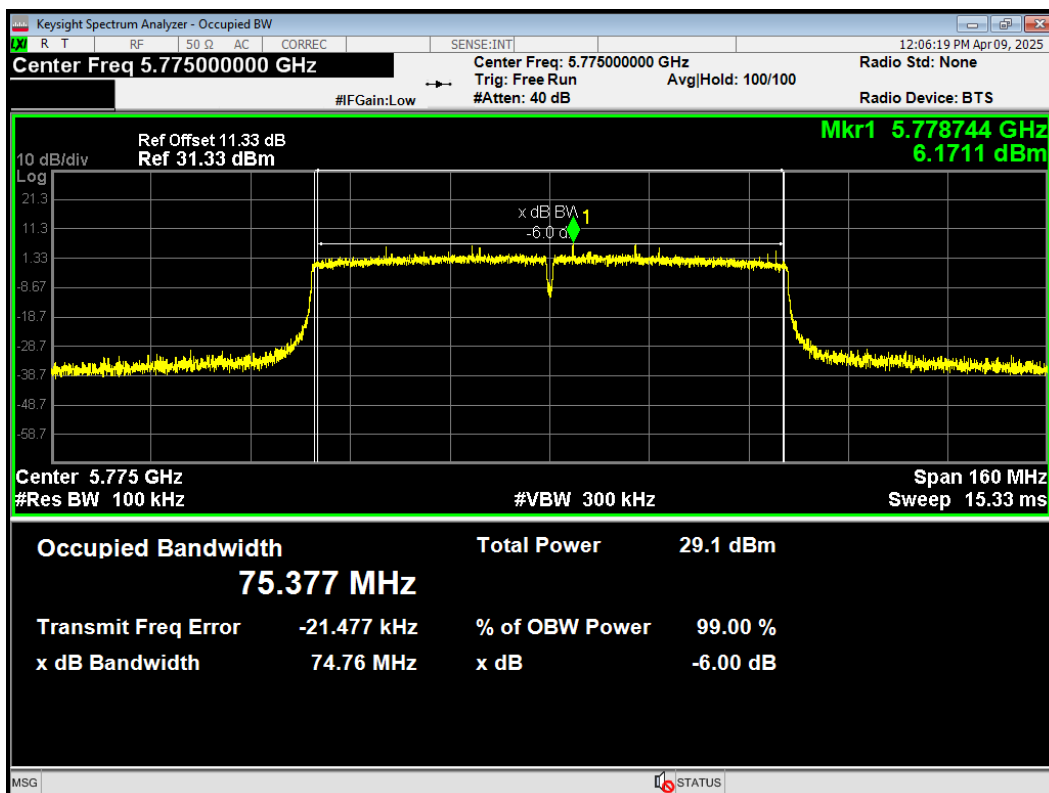
-6dB Bandwidth 802.11ax(HE40) 5755MHz



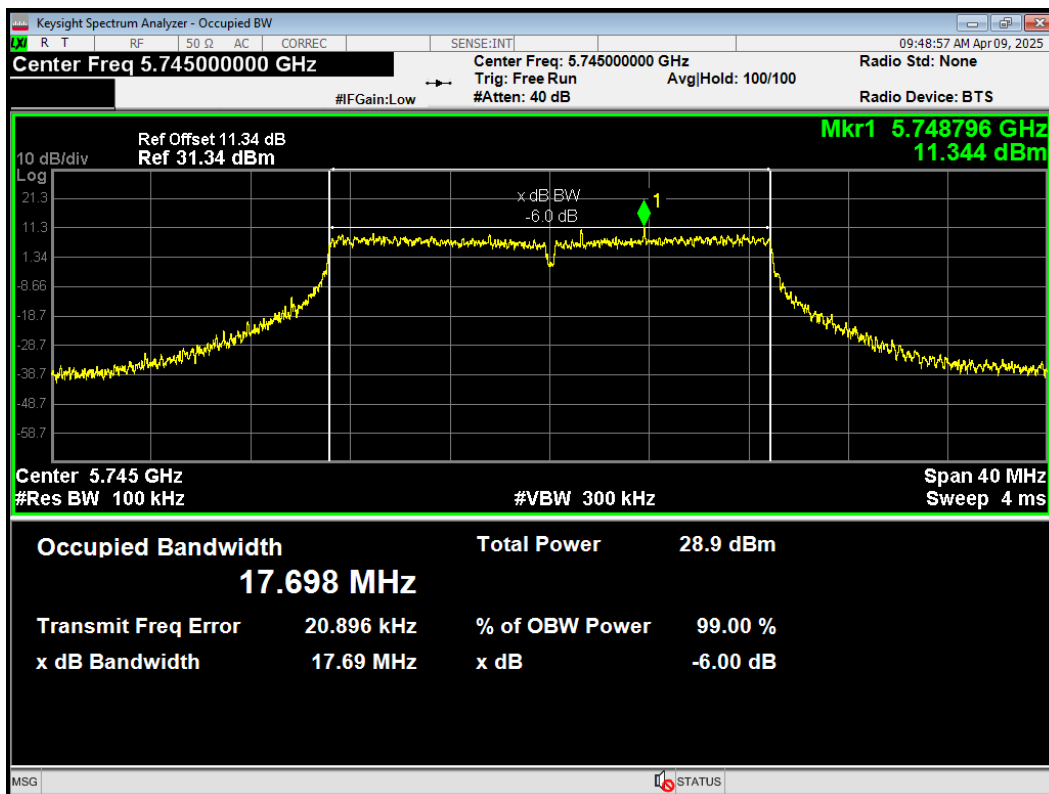
-6dB Bandwidth 802.11ax(HE40) 5795MHz



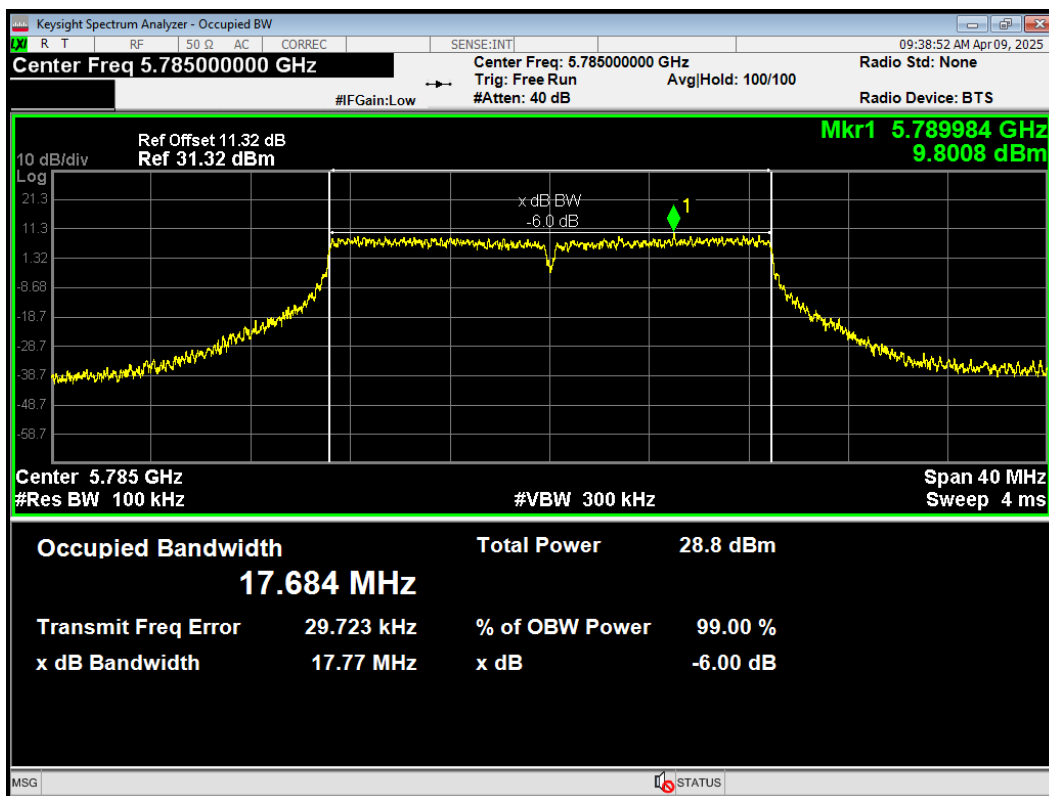
-6dB Bandwidth 802.11ax(HE80) 5775MHz



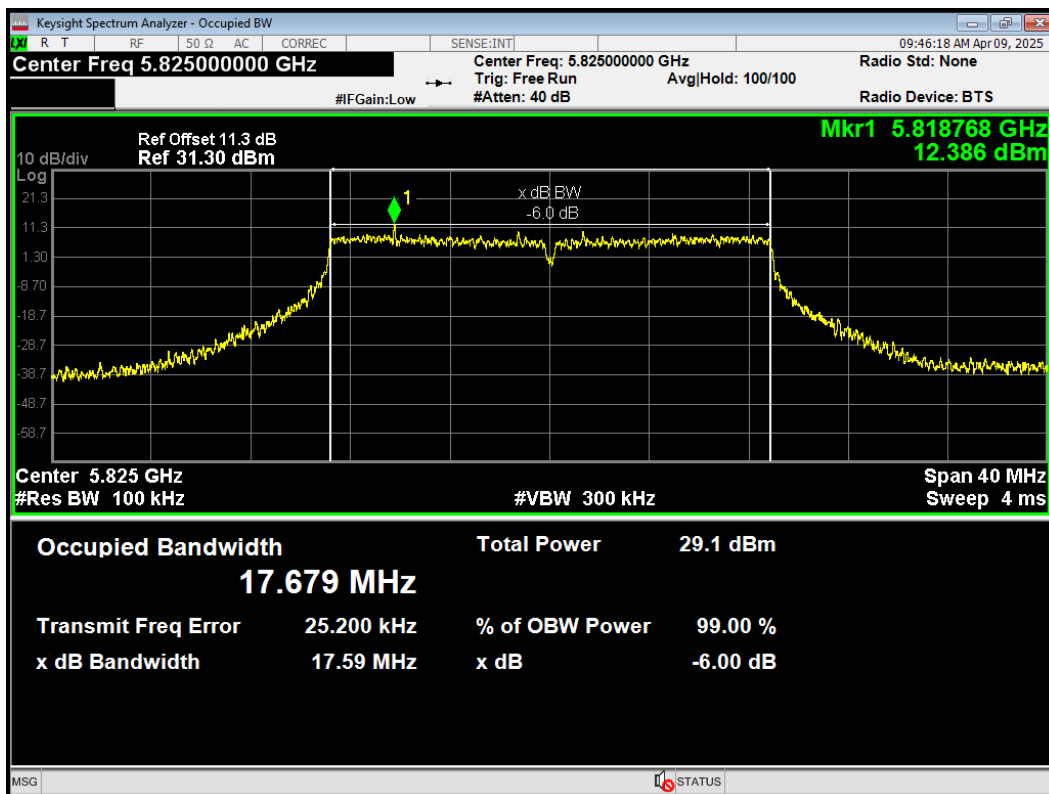
-6dB Bandwidth 802.11n(HT20) 5745MHz



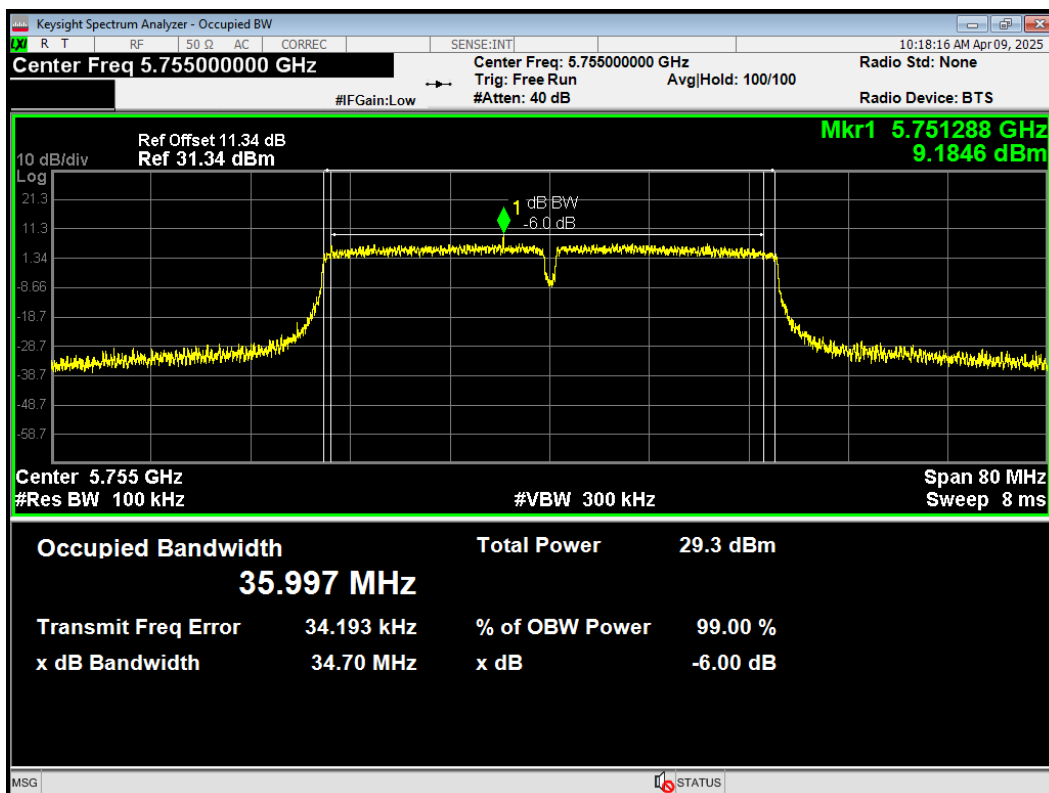
-6dB Bandwidth 802.11n(HT20) 5785MHz



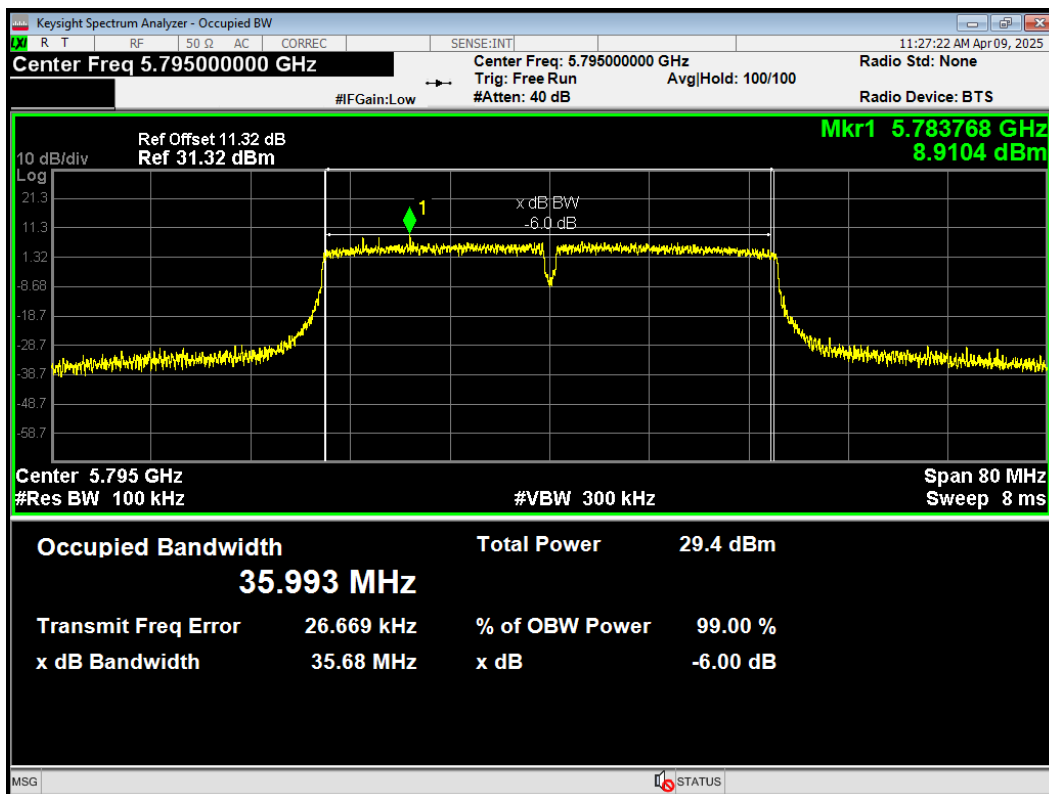
-6dB Bandwidth 802.11n(HT20) 5825MHz



-6dB Bandwidth 802.11n(HT40) 5755MHz



-6dB Bandwidth 802.11n(HT40) 5795MHz



5.2. Average Power Output

Ambient condition

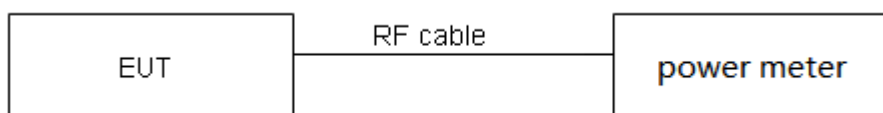
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the average power meter through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. We use Maximum average Conducted Output Power Level Method in KDB789033 for this test

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Test Setup



Limits

Rule FCC Part 15.407(a)(1) / FCC Part 15.407(a) (2) / FCC Part 15.407(a) (3)

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral

density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44 \text{ dB}$.

Test Results

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.926	0.33
802.11n HT20	0.891	0.50
802.11n HT40	0.932	0.30
802.11ac VHT20	0.917	0.38
802.11ac VHT40	0.927	0.33
802.11ac VHT80	0.902	0.45
802.11ac VHT160	0.881	0.55
802.11ax HE20	0.940	0.27
802.11ax HE40	0.927	0.33
802.11ax HE80	0.937	0.28
802.11ax HE160	0.934	0.30

Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.

Band	Network Standards	Channel/ Frequency (MHz)	Power Index	
			MIMO	Beamforming
U-NII-1	802.11a	36/5180	19	16
		40/5200	21	16
		48/5240	21	16
	802.11n HT20	36/5180	19	16
		40/5200	21	16
		48/5240	21	16
	802.11n HT40	38/5190	17	17
		46/5230	23	17
	802.11ac VHT20	36/5180	19	16
		40/5200	21	16
		48/5240	21	16
	802.11ac VHT40	38/5190	17	17
		46/5230	23	17
	802.11ac VHT80	42/5210	16	16
	802.11ax HE20	36/5180	17	16
		40/5200	21	16
		48/5240	21	16
	802.11ax HE40	38/5190	17	17
		46/5230	22	17
	802.11ax HE80	42/5210	16	16
U-NII-2A	802.11a	52/5260	15	10
		60/5300	15	10

	802.11n HT20	64/5320	15	10
		52/5260	15	10
		60/5300	15	10
		64/5320	15	10
	802.11n HT40	54/5270	17	13
		62/5310	17	13
	802.11ac VHT20	52/5260	15	10
		60/5300	15	10
		64/5320	15	10
	802.11ac VHT40	54/5270	17	12
		62/5310	17	12
	802.11ac VHT80	58/5290	17	12
	802.11ac VHT160	50/5250	16	12
	802.11ax HE20	52/5260	15	10
		60/5300	15	10
		64/5320	15	10
	802.11ax HE40	54/5270	17	12
		62/5310	16	12
	802.11ax HE80	58/5290	17	12
	802.11ax HE160	50/5250	16	12
U-NII-2C	802.11a	100/5500	16	11
		116/5580	16	11
		140/5700	16	11
	802.11n HT20	100/5500	16	11
		116/5580	16	11
		140/5700	16	11
	802.11n HT40	102/5510	17	13
		110/5550	18	13
		134/5670	18	12
	802.11ac VHT20	100/5500	16	11
		116/5580	16	11
		140/5700	16	11
	802.11ac VHT40	102/5510	17	13
		110/5550	18	13
		134/5670	18	12
	802.11ac VHT80	106/5530	17	12
	802.11ac VHT160	114/5570	16	12
	802.11ax HE20	100/5500	16	11
		116/5580	16	11
		140/5700	16	11
	802.11ax HE 40	102/5510	16	12
		110/5550	17	12
		134/5670	17	12

	802.11ax HE80	106/5530	16	12
	802.11ax HE160	114/5570	16	11
U-NII-3	802.11a	149/5745	23	18
		157/5785	23	18
		165/5825	23	18
	802.11n HT20	149/5745	23	18
		157/5785	23	18
		165/5825	23	18
	802.11n HT40	151/5755	23	18
		159/5795	23	18
	802.11ac VHT20	149/5745	23	18
		157/5785	23	18
		165/5825	23	18
	802.11ac VHT40	151/5755	23	18
		159/5795	23	18
	802.11ac VHT80	155/5775	23	18
	802.11ax HE20	149/5745	23	18
		157/5785	23	18
		165/5825	23	18
	802.11ax HE40	151/5755	23	18
		159/5795	23	18
	802.11ax HE80	155/5775	23	18

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11a	52/5260	20.42	24.10	24.00
		60/5300	20.43	24.10	24.00
		64/5320	20.35	24.09	24.00
	802.11n HT20	52/5260	21.19	24.26	24.00
		60/5300	21.26	24.28	24.00
		64/5320	21.45	24.31	24.00
	802.11n HT40	54/5270	39.55	26.97	24.00
		62/5310	39.86	27.01	24.00
	802.11ac VHT20	52/5260	21.84	24.39	24.00
		60/5300	21.59	24.34	24.00
		64/5320	21.28	24.28	24.00
	802.11ac VHT40	54/5270	39.81	27.00	24.00
		62/5310	40.12	27.03	24.00
	802.11ac VHT80	58/5290	81.47	30.11	24.00
	802.11ac VHT160	50/5250	164.54	33.16	24.00
	802.11ax HE20	52/5260	21.32	24.29	24.00
		60/5300	21.80	24.38	24.00
		64/5320	21.67	24.36	24.00
	802.11ax HE40	54/5270	40.76	27.10	24.00
		62/5310	40.55	27.08	24.00
	802.11ax HE80	58/5290	82.07	30.14	24.00
	802.11ax HE160	50/5250	165.45	33.19	24.00
U-NII-2C	802.11a	100/5500	20.59	24.14	24.00
		116/5580	21.58	24.34	24.00
		140/5700	21.04	24.23	24.00
	802.11n HT20	100/5500	20.53	24.12	24.00
		116/5580	21.73	24.37	24.00
		140/5700	21.39	24.30	24.00
	802.11n HT40	102/5510	39.66	26.98	24.00
		110/5550	39.61	26.98	24.00
		134/5670	40.29	27.05	24.00
	802.11ac VHT20	100/5500	20.09	24.03	24.00
		116/5580	21.61	24.35	24.00
		140/5700	21.43	24.31	24.00
	802.11ac VHT40	102/5510	39.88	27.01	24.00
		110/5550	39.76	26.99	24.00

		134/5670	39.95	27.01	24.00
	802.11ac VHT80	106/5530	82.38	30.16	24.00
	802.11ac VHT160	114/5570	165.59	33.19	24.00
	802.11ax HE20	100/5500	20.09	24.03	24.00
		116/5580	21.37	24.30	24.00
		140/5700	21.33	24.29	24.00
	802.11ax HE40	102/5510	39.80	27.00	24.00
		110/5550	39.86	27.00	24.00
		134/5670	39.62	26.98	24.00
	802.11ax HE80	106/5530	82.22	30.15	24.00
	802.11ax HE160	114/5570	165.49	33.19	24.00
Note: 250mW=24dBm					

MIMO

U-NII-1

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	36/5180	19.25	19.58	19.68	20.01	19.19	19.52	19.30	19.63	25.71	30.00	PASS
	44/5220	21.66	21.99	21.91	22.24	21.58	21.91	21.38	21.71	27.99	30.00	PASS
	48/5240	21.79	22.12	21.77	22.10	20.88	21.21	21.17	21.50	27.77	30.00	PASS
802.11n HT20	36/5180	19.07	19.57	19.30	19.80	19.01	19.51	18.93	19.43	25.60	30.00	PASS
	44/5220	21.28	21.78	21.52	22.02	21.33	21.83	20.91	21.41	27.78	30.00	PASS
	48/5240	21.50	22.00	21.46	21.96	20.59	21.09	20.63	21.13	27.59	30.00	PASS
802.11n HT40	38/5190	17.46	17.76	18.15	18.45	17.86	18.16	17.21	17.51	24.00	30.00	PASS
	46/5230	23.74	24.04	23.97	24.27	22.81	23.11	23.39	23.69	29.82	30.00	PASS
802.11ac VHT20	36/5180	18.84	19.21	19.31	19.69	18.95	19.33	18.86	19.24	25.39	30.00	PASS
	44/5220	21.31	21.69	21.43	21.81	21.28	21.66	20.57	20.95	27.56	30.00	PASS
	48/5240	21.31	21.68	21.39	21.76	20.65	21.03	20.73	21.11	27.43	30.00	PASS
802.11ac VHT40	38/5190	17.62	17.95	18.19	18.52	17.98	18.31	17.40	17.74	24.16	30.00	PASS
	46/5230	23.75	24.08	23.92	24.25	22.88	23.21	23.39	23.73	29.86	30.00	PASS
802.11ac VHT80	42/5210	16.82	17.27	17.35	17.80	16.60	17.05	16.14	16.59	23.22	30.00	PASS
802.11ax HE20	36/5180	17.73	18.00	17.73	18.00	17.65	17.92	17.69	17.96	23.99	30.00	PASS
	44/5220	21.97	22.24	22.27	22.54	21.66	21.93	21.62	21.89	28.18	30.00	PASS
	48/5240	22.09	22.36	22.18	22.45	21.08	21.35	21.54	21.81	28.04	30.00	PASS
802.11ax HE40	38/5190	17.89	18.22	18.34	18.67	18.04	18.37	17.80	18.13	24.37	30.00	PASS
	46/5230	23.60	23.93	23.60	23.93	22.85	23.18	23.15	23.48	29.66	30.00	PASS
802.11ax HE80	42/5210	16.85	17.13	16.95	17.24	16.75	17.03	16.38	16.66	23.04	30.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 30.00 dBm.

U-NII-2A

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	52/5260	15.21	15.54	15.02	15.35	14.35	14.68	14.62	14.95	21.16	24.00	PASS
	60/5300	15.16	15.49	15.19	15.52	13.92	14.25	14.40	14.73	21.05	24.00	PASS
	64/5320	15.08	15.41	15.19	15.52	14.14	14.47	14.19	14.52	21.03	24.00	PASS
802.11n HT20	52/5260	15.21	15.71	15.01	15.51	14.56	15.06	14.52	15.02	21.36	24.00	PASS
	60/5300	15.17	15.67	15.21	15.71	14.01	14.51	14.36	14.86	21.24	24.00	PASS
	64/5320	14.71	15.21	14.83	15.33	13.85	14.35	13.89	14.39	20.86	24.00	PASS
802.11n HT40	54/5270	17.23	17.53	17.36	17.66	16.60	16.90	16.99	17.29	23.38	24.00	PASS
	62/5310	17.50	17.80	17.60	17.90	17.54	17.00	17.62	17.92	23.69	24.00	PASS
802.11ac VHT20	52/5260	15.27	15.65	14.92	15.29	14.38	14.76	14.50	14.88	21.18	24.00	PASS
	60/5300	15.06	15.44	15.10	15.48	14.14	14.51	14.31	14.69	21.07	24.00	PASS
	64/5320	15.12	15.50	15.01	15.39	14.09	14.47	14.00	14.37	20.98	24.00	PASS
802.11ac VHT40	54/5270	17.34	17.67	17.35	17.68	16.51	16.84	16.96	17.29	23.40	24.00	PASS
	62/5310	16.88	17.21	17.10	17.43	17.33	17.66	17.55	17.88	23.57	24.00	PASS
802.11ac VHT80	58/5290	17.11	17.56	17.26	17.71	17.30	17.75	16.97	17.42	23.63	24.00	PASS
802.11ac VHT160	50/5250	16.40	16.95	15.95	16.50	16.26	16.81	16.80	17.35	22.94	24.00	PASS
802.11ax HE20	52/5260	15.83	16.10	15.43	15.70	14.91	15.18	15.24	15.51	21.66	24.00	PASS
	60/5300	15.68	15.95	15.67	15.94	14.60	14.87	14.88	15.15	21.53	24.00	PASS
	64/5320	15.68	15.95	15.82	16.09	14.78	15.05	14.89	15.16	21.61	24.00	PASS
802.11ax HE40	54/5270	16.89	17.22	17.11	17.44	17.13	17.46	17.35	17.68	23.47	24.00	PASS
	62/5310	15.93	16.26	15.91	16.24	16.83	17.16	16.15	16.48	22.57	24.00	PASS
802.11ax HE80	58/5290	17.81	18.09	17.21	17.49	17.22	17.50	17.15	17.43	23.66	24.00	PASS
802.11ax HE160	50/5250	16.60	16.90	16.31	16.61	16.23	16.53	16.70	17.00	22.78	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 24dBm.

U-NII-2C

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	100/5500	14.98	15.31	15.04	15.37	15.90	16.23	16.00	16.33	21.86	24.00	PASS
	116/5580	15.48	15.81	15.53	15.86	15.84	16.17	15.85	16.18	22.03	24.00	PASS
	140/5700	15.52	15.85	15.92	16.25	15.39	15.72	15.64	15.97	21.97	24.00	PASS
802.11n HT20	100/5500	14.67	15.17	14.86	15.36	15.69	16.19	15.52	16.02	21.72	24.00	PASS
	116/5580	15.16	15.66	15.27	15.77	15.47	15.97	15.52	16.02	21.88	24.00	PASS
	140/5700	16.16	16.66	16.20	16.70	16.13	16.63	16.15	16.65	22.68	24.00	PASS
802.11n HT40	102/5510	17.35	17.65	17.38	17.68	17.10	17.40	17.35	17.65	23.62	24.00	PASS
	110/5550	17.16	17.46	17.11	17.41	17.76	18.06	17.78	18.08	23.78	24.00	PASS
	134/5670	17.85	18.15	17.86	18.16	17.14	17.44	17.38	17.68	23.89	24.00	PASS
802.11ac VHT20	100/5500	14.79	15.17	14.75	15.13	15.42	15.80	15.42	15.80	21.51	24.00	PASS
	116/5580	15.30	15.68	15.25	15.63	15.47	15.85	11.33	11.70	21.03	24.00	PASS
	140/5700	15.52	15.90	16.72	17.10	16.20	16.58	16.25	16.63	22.59	24.00	PASS
802.11ac VHT40	102/5510	17.22	17.55	17.19	17.52	16.91	17.24	17.71	18.04	23.61	24.00	PASS
	110/5550	17.09	17.43	17.07	17.40	17.77	18.10	17.54	17.88	23.73	24.00	PASS
	134/5670	17.34	17.67	17.71	18.05	17.28	17.61	15.10	15.43	23.32	24.00	PASS
802.11ac VHT80	106/5530	17.41	17.86	17.39	17.84	17.01	17.46	17.10	17.55	23.70	24.00	PASS
802.11ac VHT160	114/5570	16.18	16.73	16.52	17.07	16.19	16.74	15.93	16.48	22.78	24.00	PASS
802.11ax HE20	100/5500	15.37	15.64	15.40	15.67	16.25	16.52	16.36	16.63	22.16	24.00	PASS
	116/5580	15.92	16.19	15.72	15.99	16.00	16.27	15.94	16.21	22.19	24.00	PASS
	140/5700	16.15	16.42	16.26	16.53	15.86	16.13	16.01	16.28	22.36	24.00	PASS
802.11ax HE40	102/5510	16.80	17.13	16.48	16.81	16.22	16.55	16.40	16.73	22.83	24.00	PASS
	110/5550	16.46	16.79	16.33	16.66	17.13	17.46	16.88	17.21	23.06	24.00	PASS
	134/5670	17.21	17.54	17.07	17.40	16.81	17.14	17.26	17.59	23.44	24.00	PASS
802.11ax HE80	106/5530	16.84	17.12	12.77	13.05	16.31	16.59	16.63	16.91	22.21	24.00	PASS
802.11ax HE160	114/5570	16.63	16.93	16.45	16.74	16.10	16.40	16.33	16.63	22.70	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 24.00 dBm.

U-NII-3

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	149/5745	22.85	23.18	23.19	23.52	22.67	23.00	22.66	22.99	29.20	30.00	PASS
	157/5785	22.78	23.11	23.12	23.45	22.67	23.00	22.40	22.73	29.10	30.00	PASS
	165/5825	22.87	23.20	22.92	23.25	22.43	22.76	22.24	22.57	28.98	30.00	PASS
802.11n HT20	149/5745	22.56	23.06	22.91	23.41	22.44	22.94	22.29	22.79	29.08	30.00	PASS
	157/5785	22.63	23.13	22.73	23.23	22.34	22.84	22.08	22.58	28.97	30.00	PASS
	165/5825	22.64	23.14	22.54	23.04	22.17	22.67	21.91	22.41	28.84	30.00	PASS
802.11n HT40	151/5755	22.96	23.26	23.13	23.43	22.68	22.98	22.78	23.08	29.21	30.00	PASS
	159/5795	22.90	23.20	23.10	23.40	22.75	23.05	22.28	22.58	29.09	30.00	PASS
802.11ac VHT20	149/5745	22.44	22.82	22.71	23.09	22.32	22.70	22.37	22.75	28.86	30.00	PASS
	157/5785	22.48	22.86	22.76	23.14	22.42	22.80	22.07	22.45	28.84	30.00	PASS
	165/5825	22.58	22.96	22.46	22.84	22.28	22.66	21.58	21.96	28.64	30.00	PASS
802.11ac VHT40	151/5755	22.74	23.07	23.27	23.60	22.42	22.75	22.68	23.01	29.14	30.00	PASS
	159/5795	22.80	23.13	23.09	23.42	22.58	22.91	22.33	22.66	29.06	30.00	PASS
802.11ac VHT80	155/5775	22.34	22.79	22.72	23.17	22.32	22.77	22.30	22.75	28.89	30.00	PASS
802.11ax HE20	149/5745	23.18	23.45	23.52	23.79	22.87	23.14	22.93	23.20	29.42	30.00	PASS
	157/5785	23.26	23.53	23.26	23.53	22.96	23.23	22.76	23.03	29.35	30.00	PASS
	165/5825	23.21	23.48	23.33	23.60	22.83	23.10	22.46	22.73	29.26	30.00	PASS
802.11ax HE40	151/5755	23.07	23.40	23.50	23.83	22.98	23.31	22.90	23.23	29.47	30.00	PASS
	159/5795	23.30	23.63	23.30	23.63	23.11	23.44	22.52	22.85	29.42	30.00	PASS
802.11ax HE80	155/5775	22.78	23.06	23.43	23.71	23.07	23.35	22.71	23.00	29.31	30.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 30.00 dBm.

Beamforming

U-NII-1

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	36/5180	16.13	16.46	16.25	16.58	16.42	16.75	16.14	16.47	22.59	24.98	PASS
	40/5200	16.30	16.63	16.48	16.81	16.43	16.76	16.13	16.46	22.69	24.98	PASS
	48/5240	16.33	16.66	16.78	17.11	15.81	16.14	16.02	16.35	22.60	24.98	PASS
802.11n HT20	36/5180	15.84	16.34	15.71	16.21	16.05	16.55	15.71	16.21	22.35	24.98	PASS
	40/5200	15.90	16.40	16.16	16.66	16.06	16.56	15.84	16.34	22.51	24.98	PASS
	48/5240	16.03	16.53	16.36	16.86	15.45	15.95	15.64	16.14	22.41	24.98	PASS
802.11n HT40	38/5190	17.46	17.76	18.15	18.45	17.86	18.16	17.21	17.51	24.00	24.98	PASS
	46/5230	17.44	17.74	17.84	18.14	17.03	17.33	17.21	17.51	23.71	24.98	PASS
802.11ac VHT20	36/5180	15.84	16.22	15.90	16.27	16.11	16.49	15.92	16.30	22.34	24.98	PASS
	40/5200	15.89	16.27	16.06	16.44	16.12	16.50	15.85	16.22	22.38	24.98	PASS
	48/5240	16.06	16.44	16.50	16.88	15.40	15.78	15.73	16.11	22.34	24.98	PASS
802.11ac VHT40	38/5190	17.62	17.95	18.19	18.52	17.98	18.31	17.40	17.74	24.16	24.98	PASS
	46/5230	17.43	17.76	17.76	18.09	16.94	17.27	17.24	17.57	23.70	24.98	PASS
802.11ac VHT80	42/5210	16.82	17.27	17.35	17.80	16.60	17.05	16.14	16.59	23.22	24.98	PASS
802.11ax HE20	36/5180	16.40	16.67	16.53	16.80	16.63	16.90	16.46	16.73	22.80	24.98	PASS
	40/5200	16.57	16.84	16.68	16.95	16.57	16.84	16.46	16.73	22.86	24.98	PASS
	48/5240	16.72	16.99	17.10	17.37	16.01	16.28	16.27	16.54	22.84	24.98	PASS
802.11ax HE40	38/5190	17.89	18.22	18.34	18.67	18.04	18.37	17.80	18.13	24.37	24.98	PASS
	46/5230	17.74	18.07	18.12	18.45	17.30	17.63	17.43	17.76	24.01	24.98	PASS
802.11ax HE80	42/5210	16.85	17.13	16.95	17.24	16.75	17.03	16.38	16.66	23.04	24.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain,

Directional gain = $G_{\text{ANT}} + 10\log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02\text{ dBi} > 6\text{dBi}$. So the limit is 24.98 dBm.

U-NII-2A

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	52/5260	10.18	10.51	10.53	10.86	9.60	9.93	10.02	10.35	16.45	18.98	PASS
	60/5300	9.78	10.11	10.48	10.81	9.28	9.61	9.70	10.03	16.18	18.98	PASS
	64/5320	10.09	10.42	10.56	10.89	8.98	9.31	9.56	9.89	16.19	18.98	PASS
802.11n HT20	52/5260	9.82	10.32	10.21	10.71	9.37	9.87	9.82	10.32	16.33	18.98	PASS
	60/5300	9.50	10.00	9.91	10.41	9.01	9.51	9.22	9.72	15.95	18.98	PASS
	64/5320	9.79	10.29	10.18	10.68	8.60	9.10	9.34	9.84	16.04	18.98	PASS
802.11n HT40	54/5270	12.66	12.96	12.24	12.54	12.20	12.50	13.06	13.36	18.88	18.98	PASS
	62/5310	12.33	12.63	12.67	12.97	12.23	12.53	12.56	12.86	18.77	18.98	PASS
802.11ac VHT20	52/5260	9.88	10.26	10.14	10.52	9.32	9.70	9.78	10.16	16.19	18.98	PASS
	60/5300	9.55	9.93	10.23	10.60	9.05	9.43	9.28	9.65	15.95	18.98	PASS
	64/5320	9.84	10.22	10.17	10.55	8.80	9.18	9.21	9.58	15.94	18.98	PASS
802.11ac VHT40	54/5270	12.45	12.78	12.70	13.03	11.85	12.18	12.06	12.39	18.63	18.98	PASS
	62/5310	12.35	12.68	12.45	12.78	11.21	11.54	11.63	11.96	18.29	18.98	PASS
802.11ac VHT80	58/5290	12.12	12.57	12.46	12.91	11.26	11.71	11.48	11.93	18.33	18.98	PASS
802.11ac VHT160	50/5250	11.84	12.39	12.38	12.93	11.49	12.05	11.74	12.29	18.45	18.98	PASS
802.11ax HE20	52/5260	10.51	10.78	10.95	11.22	9.88	10.15	10.44	10.71	16.75	18.98	PASS
	60/5300	10.16	10.43	10.71	10.98	9.77	10.04	10.06	10.33	16.48	18.98	PASS
	64/5320	10.33	10.60	10.88	11.15	9.14	9.41	9.69	9.96	16.35	18.98	PASS
802.11ax HE40	54/5270	12.21	12.48	12.61	12.94	11.68	12.01	12.15	12.48	18.51	18.98	PASS
	62/5310	12.36	12.69	12.49	12.82	11.57	11.90	11.77	12.10	18.41	18.98	PASS
802.11ax HE80	58/5290	12.50	12.79	12.98	13.26	11.78	12.06	11.98	12.26	18.64	18.98	PASS
802.11ax HE160	50/5250	12.57	12.87	13.13	13.42	12.23	12.52	12.43	12.73	18.92	18.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),
The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain,
Directional gain = $G_{\text{ANT}} + 10 \log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02 \text{ dBi} > 6\text{dBi}$. So the limit is 18.98 dBm.

U-NII-2C

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	100/5500	10.11	10.44	10.12	10.45	10.79	11.12	10.95	11.28	16.86	18.98	PASS
	116/5580	10.52	10.85	10.61	10.94	10.75	11.08	10.84	11.17	17.03	18.98	PASS
	140/5700	10.66	10.99	11.01	11.34	10.37	10.70	10.63	10.96	17.02	18.98	PASS
802.11n HT20	100/5500	9.78	10.28	9.74	10.24	10.43	10.93	10.65	11.15	16.69	18.98	PASS
	116/5580	10.24	10.74	10.32	10.82	10.42	10.92	10.46	10.96	16.88	18.98	PASS
	140/5700	10.41	10.91	10.68	11.18	10.17	10.67	10.26	10.76	16.90	18.98	PASS
802.11n HT40	102/5510	12.18	12.48	12.28	12.58	12.67	12.97	12.83	13.13	18.82	18.98	PASS
	110/5550	12.18	12.48	12.32	12.62	12.73	13.03	12.74	13.04	18.82	18.98	PASS
	134/5670	11.85	12.15	12.12	12.42	11.73	12.03	11.79	12.09	18.20	18.98	PASS
802.11ac VHT20	100/5500	9.92	10.30	9.81	10.18	10.61	10.98	10.58	10.96	16.64	18.98	PASS
	116/5580	10.21	10.58	10.28	10.66	10.38	10.76	10.41	10.79	16.72	18.98	PASS
	140/5700	10.37	10.75	10.77	11.15	10.10	10.48	10.23	10.61	16.77	18.98	PASS
802.11ac VHT40	102/5510	12.54	12.87	12.11	12.44	12.73	13.06	12.97	13.30	18.95	18.98	PASS
	110/5550	11.98	12.31	12.15	12.48	12.86	13.19	12.63	12.96	18.77	18.98	PASS
	134/5670	11.64	11.97	11.96	12.29	11.67	12.00	11.80	12.13	18.12	18.98	PASS
802.11ac VHT80	106/5530	11.00	11.45	10.98	11.43	11.90	12.35	11.89	12.34	17.94	18.98	PASS
802.11ac VHT160	114/5570	11.31	11.86	10.98	11.53	11.72	12.27	11.88	12.43	18.06	18.98	PASS
802.11ax HE20	100/5500	10.53	10.80	10.53	10.80	11.18	11.45	11.20	11.47	17.17	18.98	PASS
	116/5580	10.91	11.18	11.04	11.31	11.06	11.33	11.20	11.47	17.34	18.98	PASS
	140/5700	11.05	11.32	11.29	11.56	10.67	10.94	11.00	11.27	17.30	18.98	PASS
802.11ax HE40	102/5510	11.68	12.01	11.66	11.99	12.09	12.42	12.42	12.75	18.32	18.98	PASS
	110/5550	11.34	11.67	11.45	11.78	12.17	12.50	12.30	12.63	18.19	18.98	PASS
	134/5670	11.92	12.25	12.14	12.47	11.90	12.23	12.13	12.46	18.37	18.98	PASS
802.11ax HE80	106/5530	11.79	12.07	11.49	11.77	12.09	12.37	12.18	12.47	18.20	18.98	PASS
802.11ax HE160	114/5570	10.63	10.92	10.45	10.74	11.10	11.39	11.33	11.63	17.21	18.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F2)e)(i): If all antennas have the same gain,

Directional gain = $G_{\text{ANT}} + 10\log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02\text{ dBi} > 6\text{dBi}$. So the limit is 18.98 dBm.

U-NII-3

Network Standards	Channel/ Frequency (MHz)	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	149/5745	17.79	18.12	17.98	18.31	17.52	17.85	17.71	18.04	24.10	24.98	PASS
	157/5785	17.81	18.14	17.92	18.25	17.53	17.86	17.46	17.79	24.03	24.98	PASS
	165/5825	18.03	18.36	17.87	18.20	17.40	17.73	17.19	17.52	23.99	24.98	PASS
802.11n HT20	149/5745	17.46	17.96	17.69	18.19	17.21	17.71	17.46	17.96	23.98	24.98	PASS
	157/5785	17.56	18.06	17.51	18.01	17.44	17.94	17.07	17.57	23.92	24.98	PASS
	165/5825	17.74	18.24	17.42	17.92	17.06	17.56	17.04	17.54	23.84	24.98	PASS
802.11n HT40	151/5755	17.80	18.10	17.92	18.22	17.20	17.50	17.60	17.90	23.96	24.98	PASS
	159/5795	17.96	18.26	17.91	18.21	17.63	17.93	17.61	17.91	24.10	24.98	PASS
802.11ac VHT20	149/5745	17.49	17.87	17.63	18.00	17.09	17.47	17.39	17.77	23.80	24.98	PASS
	157/5785	17.46	17.84	17.67	18.04	17.33	17.71	17.07	17.45	23.79	24.98	PASS
	165/5825	17.84	18.22	17.58	17.96	17.03	17.41	16.92	17.30	23.76	24.98	PASS
802.11ac VHT40	151/5755	17.56	17.89	17.98	18.31	17.62	17.95	17.69	18.02	24.07	24.98	PASS
	159/5795	17.75	18.08	17.91	18.24	17.76	18.09	17.63	17.96	24.11	24.98	PASS
802.11ac VHT80	155/5775	17.61	18.06	17.46	17.91	17.33	17.77	17.28	17.73	23.89	24.98	PASS
802.11ax HE20	149/5745	18.12	18.39	18.35	18.62	17.73	18.00	17.98	18.25	24.34	24.98	PASS
	157/5785	18.25	18.52	18.26	18.53	18.02	18.29	17.85	18.12	24.39	24.98	PASS
	165/5825	18.37	18.64	18.25	18.52	17.73	18.00	17.33	17.60	24.23	24.98	PASS
802.11ax HE40	151/5755	18.07	18.40	18.15	18.48	17.68	18.01	17.90	18.23	24.30	24.98	PASS
	159/5795	18.21	18.54	18.33	18.66	17.81	18.14	17.80	18.13	24.40	24.98	PASS
802.11ax HE80	155/5775	18.12	18.40	18.14	18.42	17.88	18.16	17.81	18.09	24.29	24.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain,

Directional gain = $G_{\text{ANT}} + 10 \log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02 \text{ dBi} > 6\text{dBi}$. So the limit is 24.98 dBm.

RU Mode

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11ax HE20 52-Tones:RU Index 37	0.917	0.38
802.11ax HE20 52-Tones:RU Index 38	0.942	0.28
802.11ax HE20 52-Tones:RU Index 40	0.939	0.27
802.11ax HE20 106-Tones:RU Index 53	0.924	0.35
802.11ax HE20 106-Tones:RU Index 54	0.937	0.28
802.11ax HE20 242-Tones:RU Index 61	0.919	0.37
802.11ax HE40 484-Tones:RU Index 65	0.839	0.76
802.11ax HE80 996-Tones:RU Index 67	0.641	1.93
802.11ax HE160 996*2-Tones:RU Index 68	0.427	3.69

Band	Network Standards	Carrier frequency (MHz)	RU Index	Power Index	
				MIMO	Beamforming
U-NII-1	802.11ax HE20 52-Tones	36/5180	37	18	13
		40/5200	38	18	14
		48/5240	40	17	13
	802.11ax HE20 106-Tones	36/5180	53	20	16
		40/5200	53	20	16
		48/5240	54	20	16
	802.11ax HE20 242-Tones	36/5180	61	15	15
		40/5200	61	15	15
		48/5240	61	15	15
	802.11ax HE40 484-Tones	38/5190	65	14	14
		46/5230	65	14	14
	802.11ax HE80 996-Tones	42/5210	67	13	13
U-NII-2A	802.11ax HE20 52-Tones	52/5260	37	12	7
		60/5300	38	12	7
		64/5320	40	12	8
	802.11ax HE20 106-Tones	52/5260	53	15	10
		60/5300	53	14	10
		64/5320	54	14	10
	802.11ax HE20	52/5260	61	14	9

	242-Tones	60/5300	61	14	9
		64/5320	61	14	9
	802.11ax HE40 484-Tones	54/5270	65	17	10
		62/5310	65	17	10
	802.11ax HE80 996-Tones	58/5290	67	16	12
	802.11ax HE160 996*2-Tones	50/5250	68	14	12
U-NII-2C	802.11ax HE20 52-Tones	100/5500	37	13	7
		116/5580	38	12	8
		140/5700	40	12	8
	802.11ax HE20 106-Tones	100/5500	53	15	10
		116/5580	53	14	10
		140/5700	54	14	10
	802.11ax HE20 242-Tones	100/5500	61	15	9
		116/5580	61	15	9
		140/5700	61	15	9
	802.11ax HE40 484-Tones	102/5510	65	16	10
		110/5550	65	16	10
		134/5670	65	16	10
	802.11ax HE80 996-Tones	106/5530	67	15	12
	802.11ax HE160 996*2-Tones	114/5570	68	14	13
U-NII-3	802.11ax HE20 52-Tones	149/5745	37	24	22
		157/5785	38	24	22
		165/5825	40	24	22
	802.11ax HE20 106-Tones	149/5745	53	24	22
		157/5785	53	24	22
		165/5825	54	24	22
	802.11ax HE20 242-Tones	149/5745	61	23	18
		157/5785	61	23	17
		165/5825	61	23	17
	802.11ax HE40 484-Tones	151/5755	65	23	17
		159/5795	65	23	17
	802.11ax HE80 996-Tones	155/5775	67	20	18

MIMO

U-NII-1

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	36/5180	37	14.61	14.99	14.64	15.02	14.37	14.52	14.47	14.85	20.87	30.00	PASS
	40/5200	38	15.15	15.43	15.63	15.91	14.88	15.16	14.60	14.88	21.38	30.00	PASS
	48/5240	40	15.36	15.63	15.59	15.86	14.71	14.98	14.88	15.15	21.44	30.00	PASS
802.11ax HE20 106-Tones	36/5180	53	17.86	18.21	18.11	18.46	17.69	18.04	17.70	18.05	24.21	30.00	PASS
	40/5200	53	18.12	18.47	18.15	18.50	17.76	18.11	17.56	17.91	24.28	30.00	PASS
	48/5240	54	18.19	18.47	18.41	18.69	17.42	17.70	17.44	17.72	24.19	30.00	PASS
802.11ax HE20 242-Tones	36/5180	61	15.36	15.73	16.06	16.43	15.37	15.74	15.34	15.71	21.94	30.00	PASS
	40/5200	61	15.70	16.07	15.49	15.86	15.42	15.79	15.38	15.75	21.89	30.00	PASS
	48/5240	61	15.79	16.16	15.66	16.03	15.04	15.41	15.05	15.42	21.79	30.00	PASS
802.11ax HE40 484-Tones	38/5190	65	14.05	14.81	14.49	15.25	14.06	14.82	14.02	14.78	20.94	30.00	PASS
	46/5230	65	14.30	15.06	14.73	15.49	13.89	14.65	13.95	14.71	21.01	30.00	PASS
802.11ax HE80 996-Tones	42/5210	67	12.69	14.62	13.27	15.20	12.55	14.48	12.64	14.57	20.75	30.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 30.00 dBm.

U-NII-2A

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	52/5260	37	8.98	9.36	9.45	9.83	8.23	8.61	8.18	8.56	15.14	24.00	PASS
	60/5300	38	8.81	9.09	9.08	9.36	7.98	8.26	7.95	8.23	14.78	24.00	PASS
	64/5320	40	9.81	10.08	10.23	10.50	8.22	8.49	8.25	8.52	15.51	24.00	PASS
802.11ax HE20 106-Tones	52/5260	53	11.84	12.19	11.67	12.02	11.01	11.36	10.93	11.28	17.75	24.00	PASS
	60/5300	53	11.97	12.32	12.16	12.51	10.36	10.71	10.63	10.98	17.72	24.00	PASS
	64/5320	54	11.39	11.67	11.88	12.16	10.73	11.01	10.20	10.48	17.40	24.00	PASS
802.11ax HE20 242-Tones	52/5260	61	14.77	15.14	15.02	15.39	14.04	14.41	14.21	14.58	20.92	24.00	PASS
	60/5300	61	14.44	14.81	14.47	14.84	13.18	13.55	13.45	13.82	20.31	24.00	PASS
	64/5320	61	14.20	14.57	14.16	14.53	13.20	13.57	12.98	13.35	20.06	24.00	PASS
802.11ax HE40 484-Tones	54/5270	65	17.19	17.95	17.43	18.19	16.52	17.28	16.70	17.46	23.76	24.00	PASS
	62/5310	65	16.80	17.56	17.02	17.78	15.88	16.64	16.07	16.83	23.25	24.00	PASS
802.11ax HE80 996-Tones	58/5290	67	14.27	16.20	14.94	16.87	13.71	15.64	13.71	15.64	22.14	24.00	PASS
802.11ax HE160 996*2-Tones	50/5250	68	10.32	14.01	10.83	14.52	9.88	13.57	9.69	13.38	19.91	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 24.00 dBm.

U-NII-2C

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	100/5500	37	9.36	9.64	8.92	9.30	9.06	9.34	9.50	9.78	15.54	24.00	PASS
	116/5580	38	8.64	8.92	8.64	8.92	8.53	8.81	8.84	9.12	14.96	24.00	PASS
	140/5700	40	9.24	9.51	9.70	9.97	8.77	9.04	9.23	9.50	15.54	24.00	PASS
802.11ax HE20 106-Tones	100/5500	53	10.98	11.33	10.91	11.26	11.25	11.60	11.47	11.82	17.53	24.00	PASS
	116/5580	53	11.39	11.74	11.20	11.55	11.66	12.01	11.38	11.73	17.78	24.00	PASS
	140/5700	54	11.48	11.76	11.60	11.88	11.22	11.50	11.17	11.45	17.67	24.00	PASS
802.11ax HE20 242-Tones	100/5500	61	14.89	15.26	14.71	15.08	15.36	15.73	15.54	15.91	21.53	24.00	PASS
	116/5580	61	14.93	15.30	14.74	15.11	15.01	15.38	15.18	15.55	21.35	24.00	PASS
	140/5700	61	14.94	15.31	15.05	15.42	14.29	14.66	14.85	15.22	21.18	24.00	PASS
802.11ax HE40 484-Tones	102/5510	65	15.27	16.03	15.51	16.27	16.05	16.81	16.30	17.06	22.58	24.00	PASS
	110/5550	65	15.15	15.91	15.39	16.15	15.81	16.57	15.99	16.75	22.38	24.00	PASS
	134/5670	65	15.06	15.82	15.43	16.19	15.12	15.88	15.50	16.26	22.06	24.00	PASS
802.11ax HE80 996-Tones	106/5530	67	13.14	15.07	13.02	14.95	13.47	15.40	13.94	15.87	21.36	24.00	PASS
802.11ax HE160 996*2-Tones	114/5570	68	9.82	13.51	9.96	13.65	10.65	14.34	10.13	13.82	19.86	24.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 24.00 dBm.

U-NII-3

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	149/5745	37	19.63	20.01	19.91	20.29	19.43	19.81	20.07	20.45	26.17	30.00	PASS
	157/5785	38	20.47	20.75	20.76	21.04	20.00	20.28	20.27	20.55	26.69	30.00	PASS
	165/5825	40	21.57	21.84	21.09	21.36	21.48	21.75	21.12	21.39	27.61	30.00	PASS
802.11ax HE20 106-Tones	149/5745	53	19.85	20.20	19.84	20.19	19.45	19.80	20.00	20.35	26.16	30.00	PASS
	157/5785	53	21.33	21.68	21.19	21.54	21.10	21.45	21.29	21.64	27.60	30.00	PASS
	165/5825	54	21.56	21.84	21.19	21.47	20.92	21.20	21.04	21.32	27.48	30.00	PASS
802.11ax HE20 242-Tones	149/5745	61	23.03	23.40	23.20	23.57	22.82	23.19	22.88	23.25	29.38	30.00	PASS
	157/5785	61	23.10	23.47	23.31	23.68	22.91	23.28	22.80	23.17	29.42	30.00	PASS
	165/5825	61	23.42	23.79	23.36	23.73	22.88	23.25	22.92	23.29	29.54	30.00	PASS
802.11ax HE40 484-Tones	151/5755	65	22.70	23.46	22.99	23.75	22.43	23.19	22.50	23.26	29.44	30.00	PASS
	159/5795	65	22.75	23.51	23.01	23.77	22.65	23.41	22.51	23.27	29.52	30.00	PASS
802.11ax HE80 996-Tones	155/5775	67	18.42	20.35	18.39	20.32	18.16	20.09	18.03	19.96	26.20	30.00	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2) (ii): If all transmit signals are completely uncorrelated with each other, Directional gain = 5dBi<6dBi. So the power limit is 30.00 dBm.

Beamforming

U-NII-1

Network Standards	Channel/Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	36/5180	37	9.86	10.24	10.28	10.66	9.97	10.35	9.87	10.25	16.40	24.98	PASS
	40/5200	38	10.13	10.41	10.58	10.86	10.00	10.28	9.82	10.10	16.44	24.98	PASS
	48/5240	40	10.16	10.43	10.59	10.86	9.71	9.98	9.67	9.94	16.34	24.98	PASS
802.11ax HE20 106-Tones	36/5180	53	12.77	13.12	12.81	13.16	12.82	13.17	12.42	12.77	19.08	24.98	PASS
	40/5200	53	12.77	13.12	12.72	13.07	12.70	13.05	12.43	12.78	19.03	24.98	PASS
	48/5240	54	12.89	13.17	12.98	13.26	12.13	12.41	12.57	12.85	18.96	24.98	PASS
802.11ax HE20 242-Tones	36/5180	61	15.36	15.73	16.06	16.43	15.37	15.74	15.34	15.71	21.94	24.98	PASS
	40/5200	61	15.70	16.07	15.49	15.86	15.42	15.79	15.38	15.75	21.89	24.98	
	48/5240	61	15.79	16.16	15.66	16.03	15.04	15.41	15.05	15.42	21.79	24.98	PASS
802.11ax HE40 484-Tones	38/5190	65	14.05	14.81	14.49	15.25	14.06	14.82	14.02	14.78	20.94	24.98	PASS
	46/5230	65	14.30	15.06	14.73	15.49	13.89	14.65	13.95	14.71	21.01	24.98	PASS
802.11ax HE80 996-Tones	42/5210	67	12.69	14.62	13.27	15.20	12.55	14.48	12.64	14.57	20.75	24.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain, Directional gain =

$G_{\text{ANT}} + 10\log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02\text{ dBi} > 6\text{dBi}$. So the limit is 24.98 dBm

U-NII-2A

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	52/5260	37	3.69	4.07	3.92	4.30	3.31	3.69	2.84	3.22	9.86	18.98	PASS
	60/5300	38	3.38	3.66	4.04	4.32	3.06	3.34	2.81	3.09	9.65	18.89	PASS
	64/5320	40	4.15	4.42	4.93	5.20	2.95	3.22	3.16	3.43	10.16	18.98	PASS
802.11ax HE20 106-Tones	52/5260	53	7.04	7.39	7.27	7.62	6.27	6.62	6.70	7.05	13.21	18.98	PASS
	60/5300	53	6.31	6.66	7.00	7.35	5.40	5.75	5.59	5.94	12.49	18.98	PASS
	64/5320	54	6.16	6.44	6.87	7.15	5.23	5.51	5.27	5.55	12.24	18.98	PASS
802.11ax HE20 242-Tones	52/5260	61	9.94	10.31	10.25	10.62	9.28	9.65	9.46	9.83	16.14	18.98	PASS
	60/5300	61	9.38	9.75	10.16	10.53	9.01	9.38	8.85	9.22	15.77	18.98	PASS
	64/5320	61	9.45	9.82	10.04	10.41	8.39	8.76	8.62	8.99	15.57	18.98	PASS
802.11ax HE40 484-Tones	54/5270	65	11.07	11.83	11.34	12.10	10.45	11.21	10.42	11.18	17.62	18.98	PASS
	62/5310	65	10.29	11.05	11.10	11.86	9.95	10.71	9.67	10.43	17.07	18.98	PASS
802.11ax HE80 996-Tones	58/5290	67	10.57	12.50	11.49	13.42	10.08	12.01	10.20	12.13	18.57	18.98	PASS
802.11ax HE160 996*2-Tones	50/5250	68	8.77	12.46	9.01	12.70	8.22	11.91	7.86	11.55	18.20	18.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain, Directional gain = $G_{\text{ANT}} + 10 \log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02 \text{ dBi} > 6 \text{ dBi}$. So the limit is 18.98 dBm.

U-NII-2C

Network Standards	Channel/ Frequency (MHz)	RU Index	MIMO Antenna 1		MIMO Antenna 2		MIMO Antenna3		MIMO Antenna4		Total Power (dBm)	Limit (dBm)	Conclusion
			Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11ax HE20 52-Tones	100/5500	37	3.75	4.03	3.44	3.82	3.66	3.94	4.18	4.46	10.09	18.98	PASS
	116/5580	38	3.69	3.97	3.28	3.56	3.73	4.01	3.38	3.66	9.82	18.98	PASS
	140/5700	40	4.08	4.35	4.39	4.66	3.77	4.04	4.21	4.48	10.41	18.98	PASS
802.11ax HE20 106-Tones	100/5500	53	6.41	6.76	6.32	6.67	6.62	6.97	6.80	7.15	12.91	18.98	PASS
	116/5580	53	6.23	6.58	6.14	6.49	6.76	7.11	6.64	6.99	12.82	18.98	PASS
	140/5700	54	6.10	6.38	6.41	6.69	5.68	5.96	6.07	6.35	12.37	18.98	PASS
802.11ax HE20 242-Tones	100/5500	61	9.34	9.71	9.23	9.60	9.97	10.34	10.09	10.46	16.06	18.98	PASS
	116/5580	61	9.47	9.84	9.27	9.64	9.61	9.98	9.55	9.92	15.87	18.98	PASS
	140/5700	61	9.11	9.48	9.64	10.01	8.81	9.18	9.16	9.53	15.58	18.98	PASS
802.11ax HE40 484-Tones	102/5510	65	10.18	10.94	10.42	11.18	11.26	12.02	11.03	11.79	17.52	18.98	PASS
	110/5550	65	9.83	10.59	10.37	11.13	10.86	11.62	10.74	11.50	17.25	18.98	PASS
	134/5670	65	9.85	10.61	10.62	11.38	10.11	10.87	10.36	11.12	17.02	18.98	PASS
802.11ax HE80 996-Tones	106/5530	67	10.12	12.05	10.73	12.66	10.93	12.86	11.10	13.03	18.69	18.98	PASS
802.11ax HE160 996*2-Tones	114/5570	68	8.88	12.57	8.80	12.49	9.52	13.21	9.61	13.30	18.93	18.98	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)} + 10^{(\text{Power antenna3 in dBm}/10)} + 10^{(\text{Power antenna4 in dBm}/10)})$.

2. Direction gain calculation according to KDB662911 D01 Multiple Transmitter Output v02r01 F)2)e)(i): If all antennas have the same gain, Directional gain = $G_{\text{ANT}} + 10\log(N_{\text{ANT}}/N_{\text{ss}}) = 5 + 10\log(4/N_{\text{ss}}) = 11.02\text{ dBi} > 6\text{dBi}$. So the limit is 18.98 dBm.