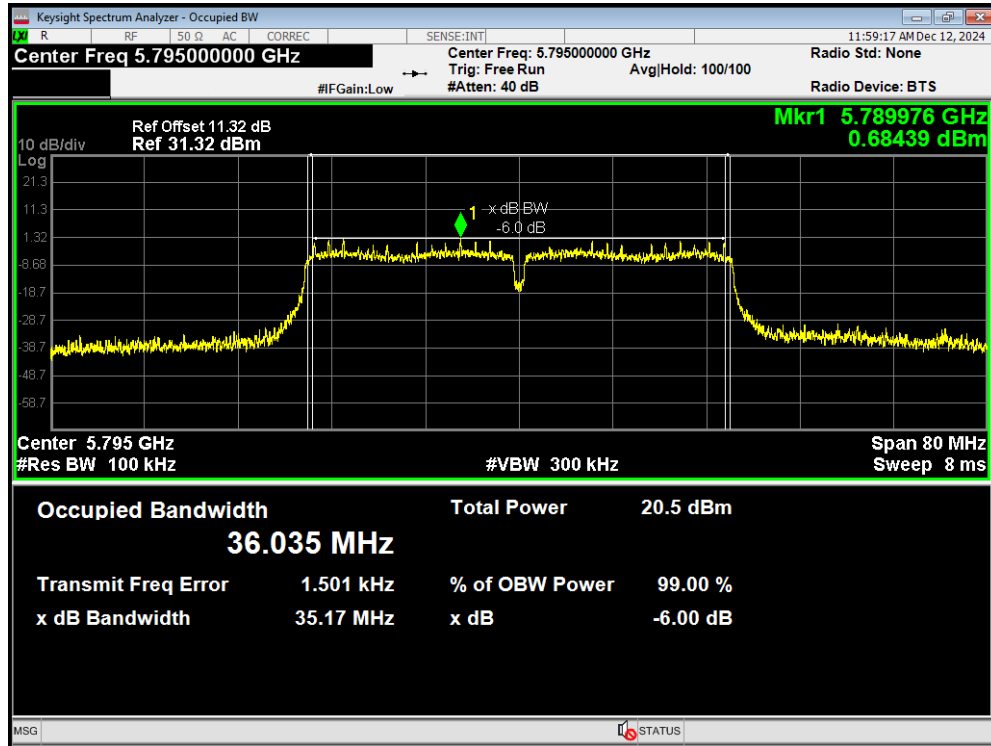
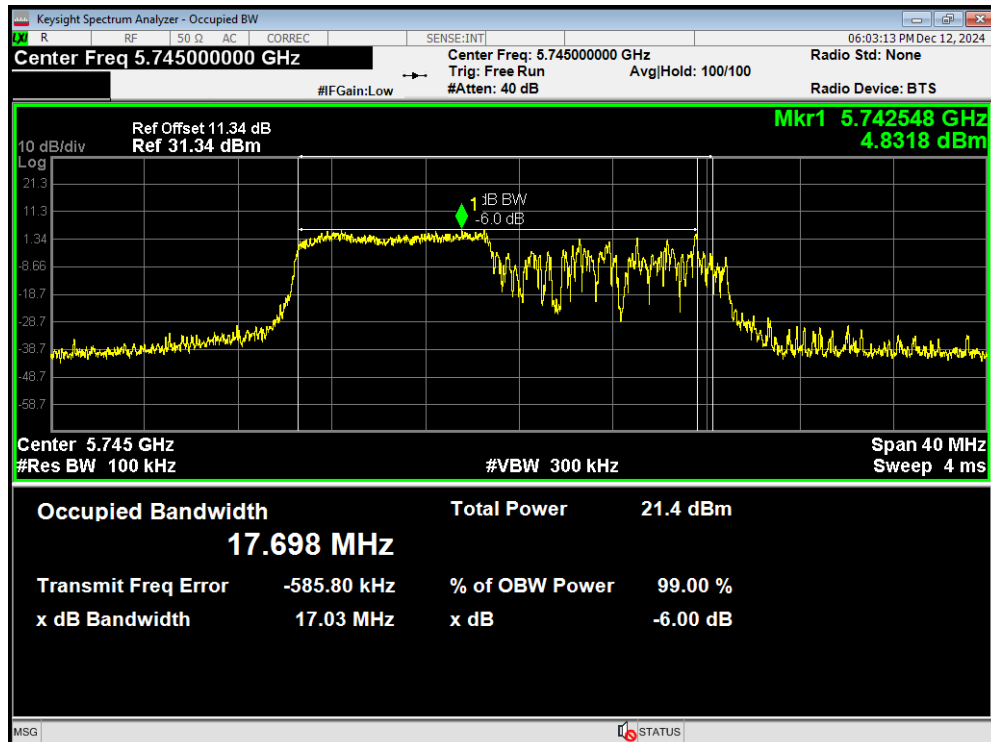


-6dB Bandwidth 802.11n(HT40) 5795MHz

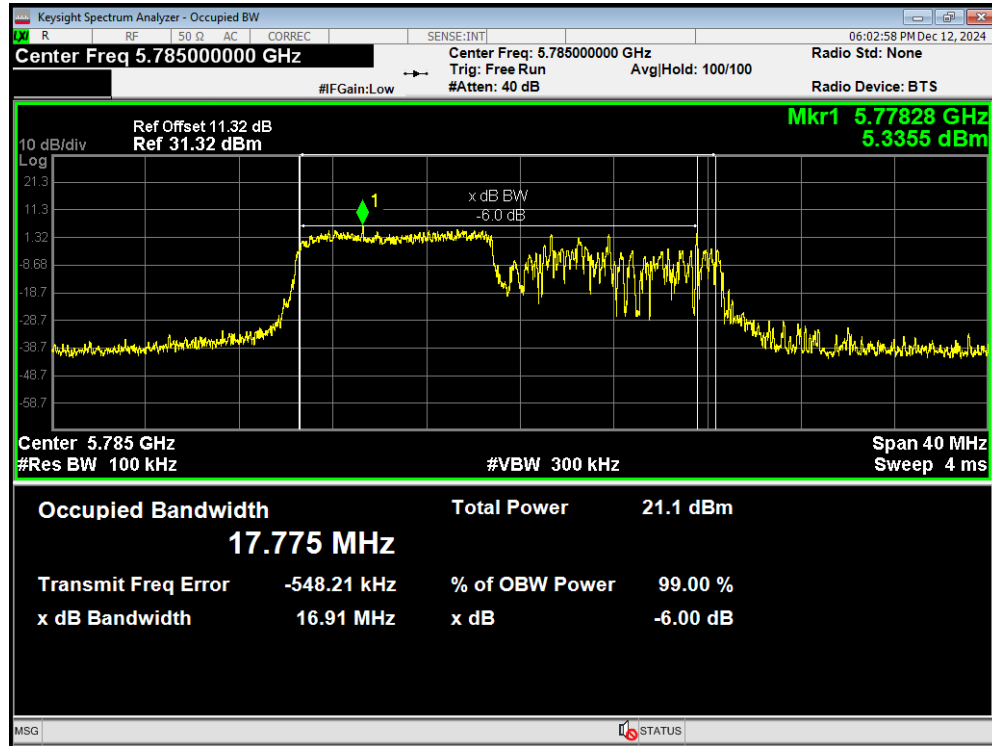


TB mode
U-NII-3

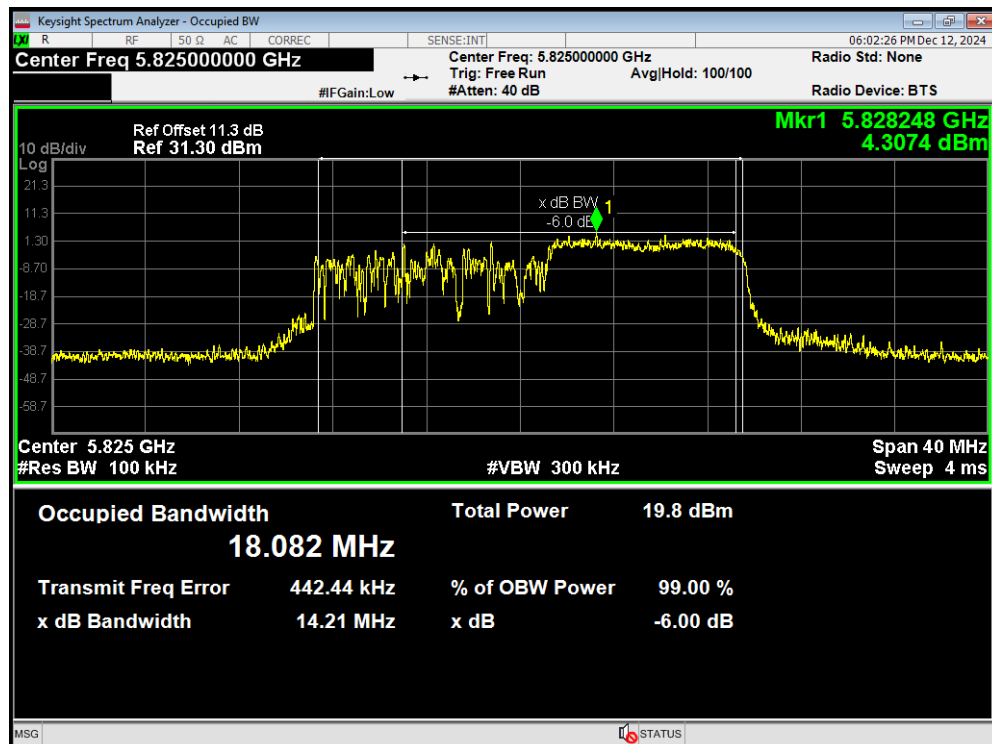
6dB Bandwidth 802.11ax HE20 106-Tones 5745MHz



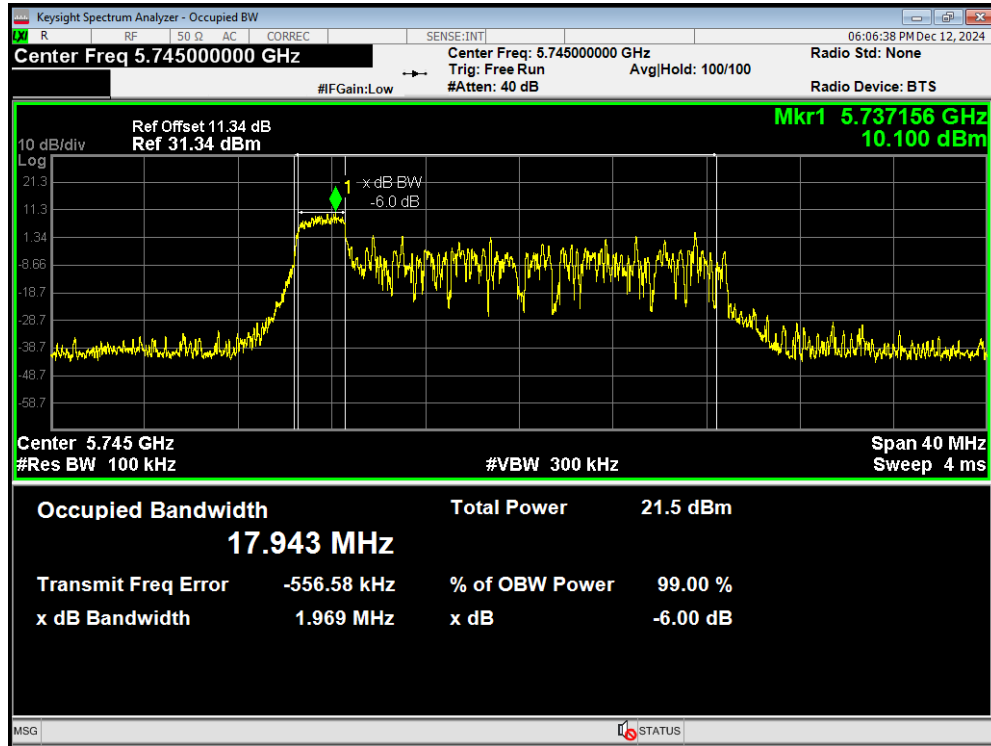
-6dB Bandwidth 802.11ax HE20 106-Tones 5785MHz



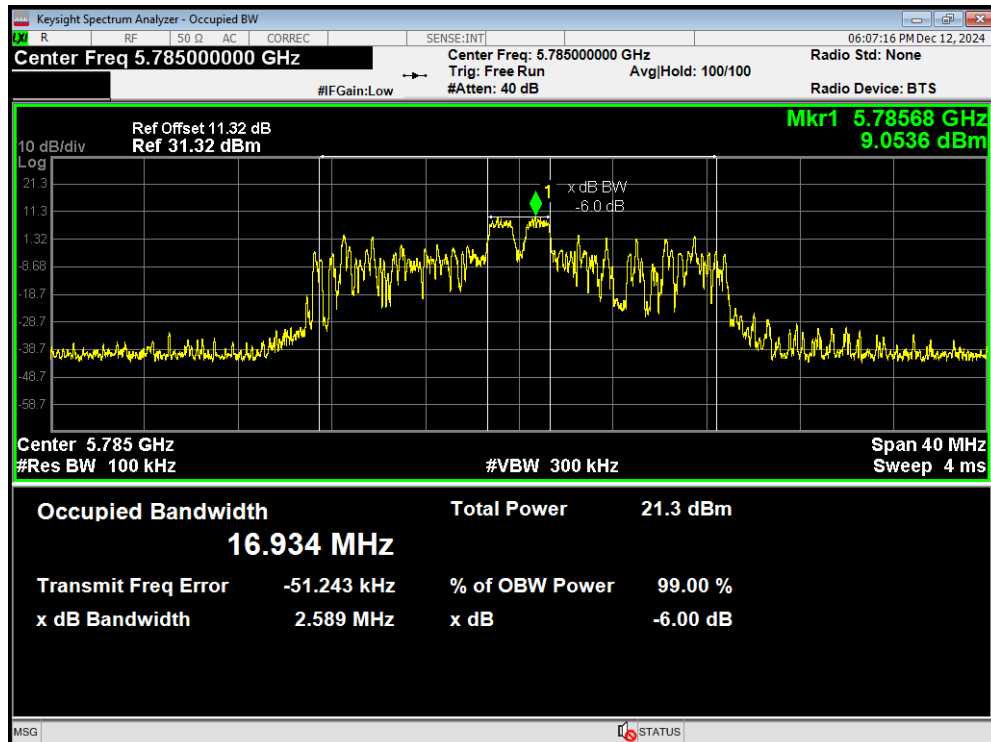
-6dB Bandwidth 802.11ax HE20 106-Tones 5825MHz



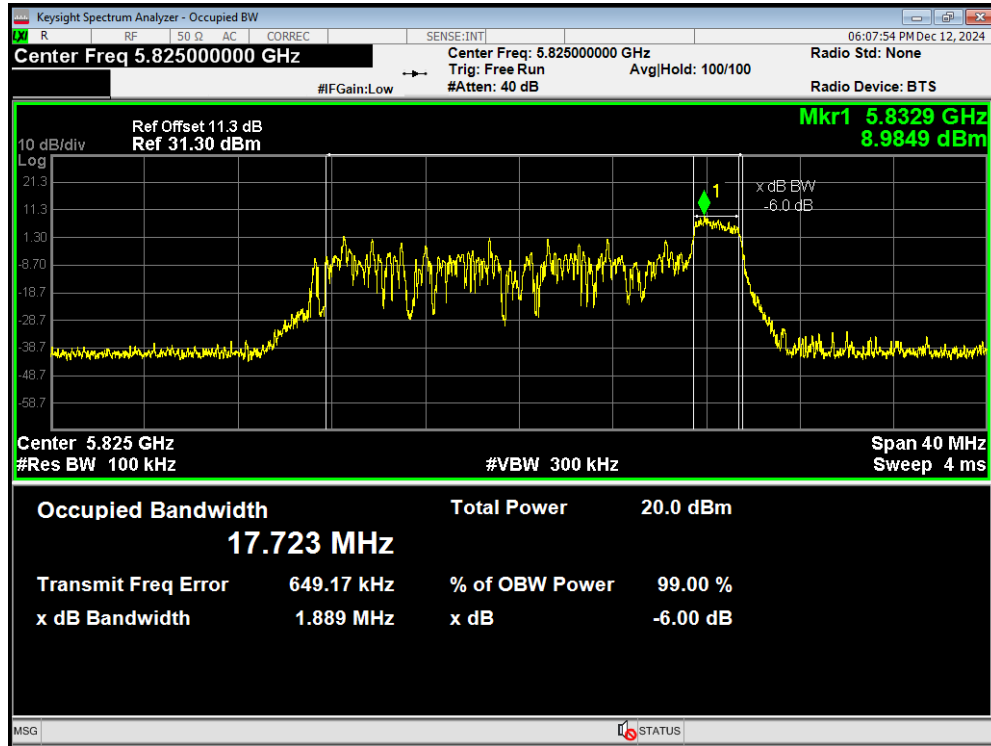
-6dB Bandwidth 802.11ax HE20 26-Tones 5745MHz



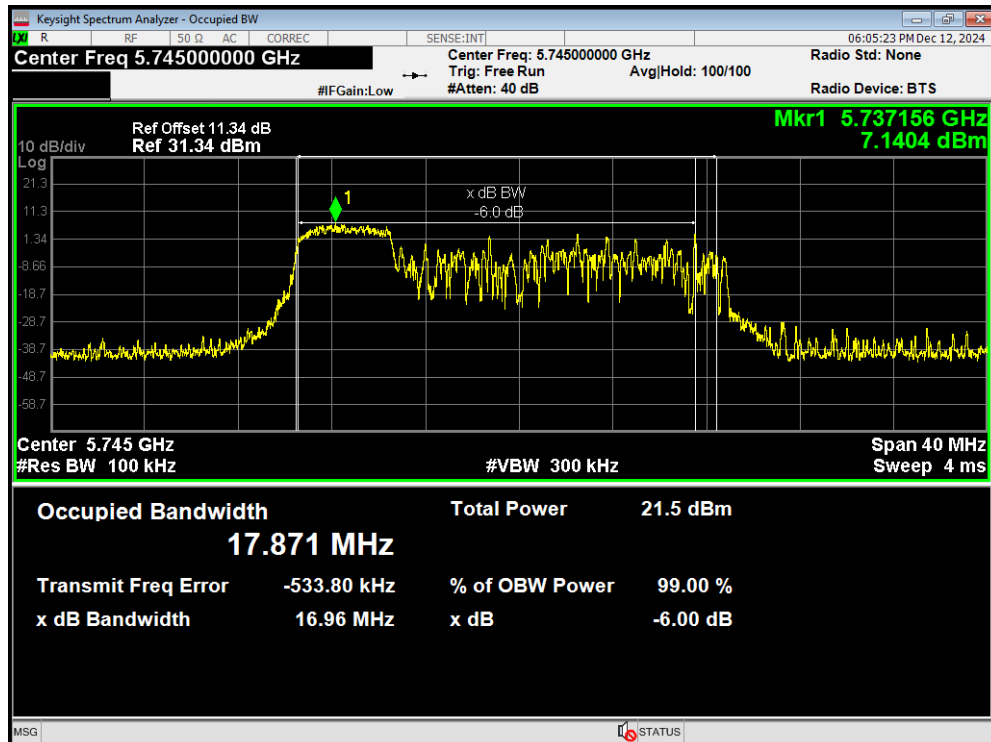
-6dB Bandwidth 802.11ax HE20 26-Tones 5785MHz



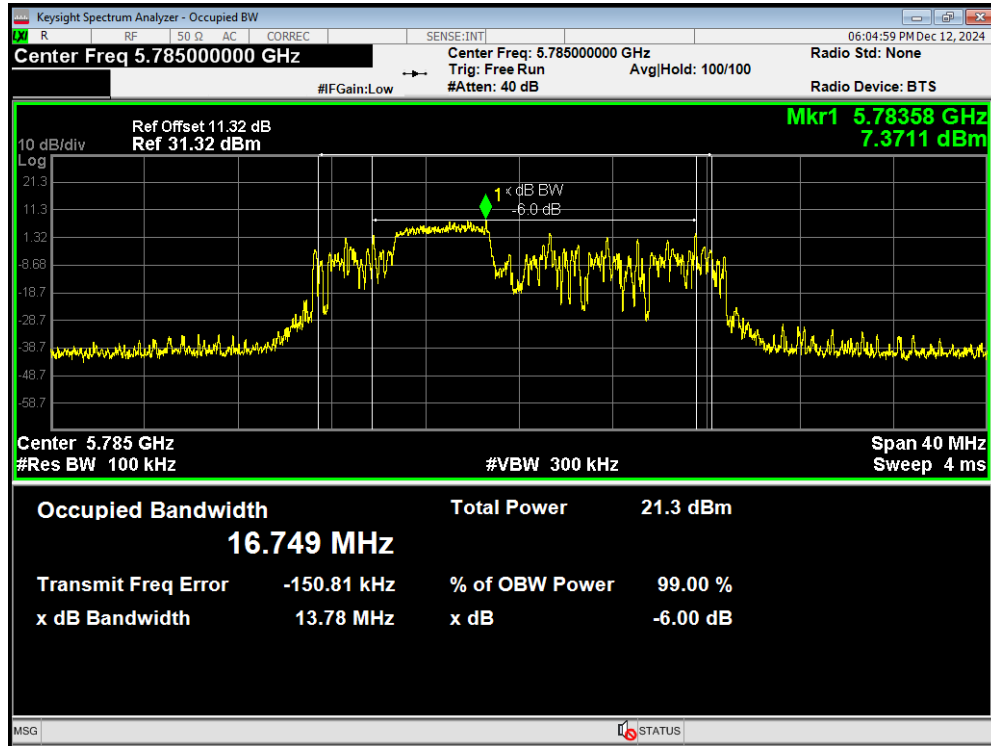
-6dB Bandwidth 802.11ax HE20 26-Tones 5825MHz



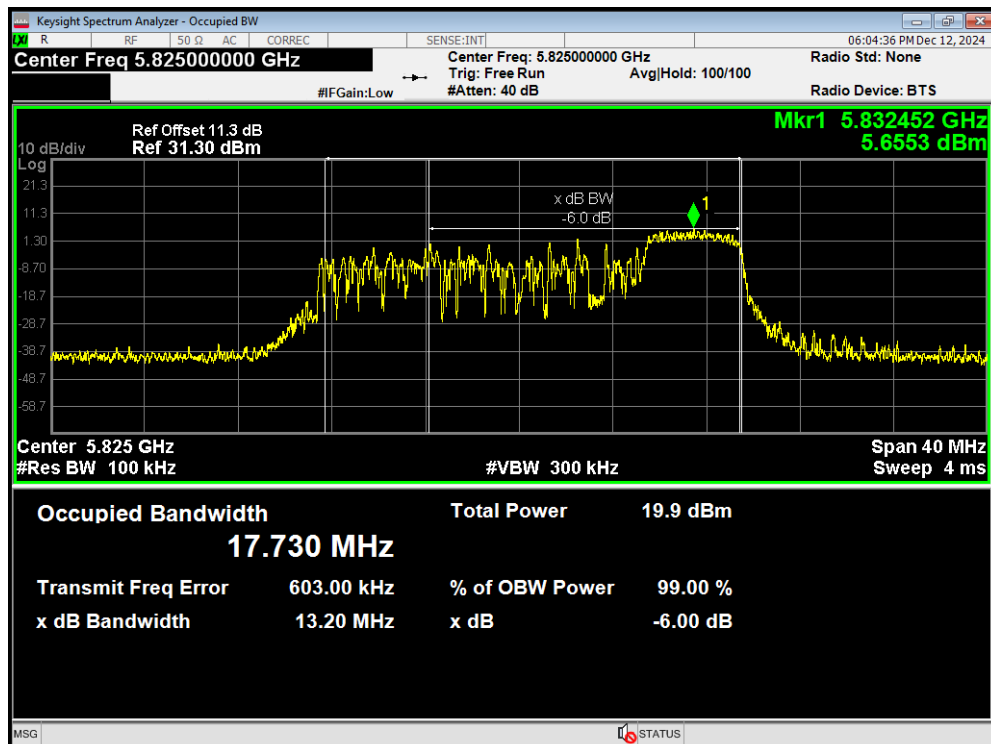
-6dB Bandwidth 802.11ax HE20 52-Tones 5745MHz



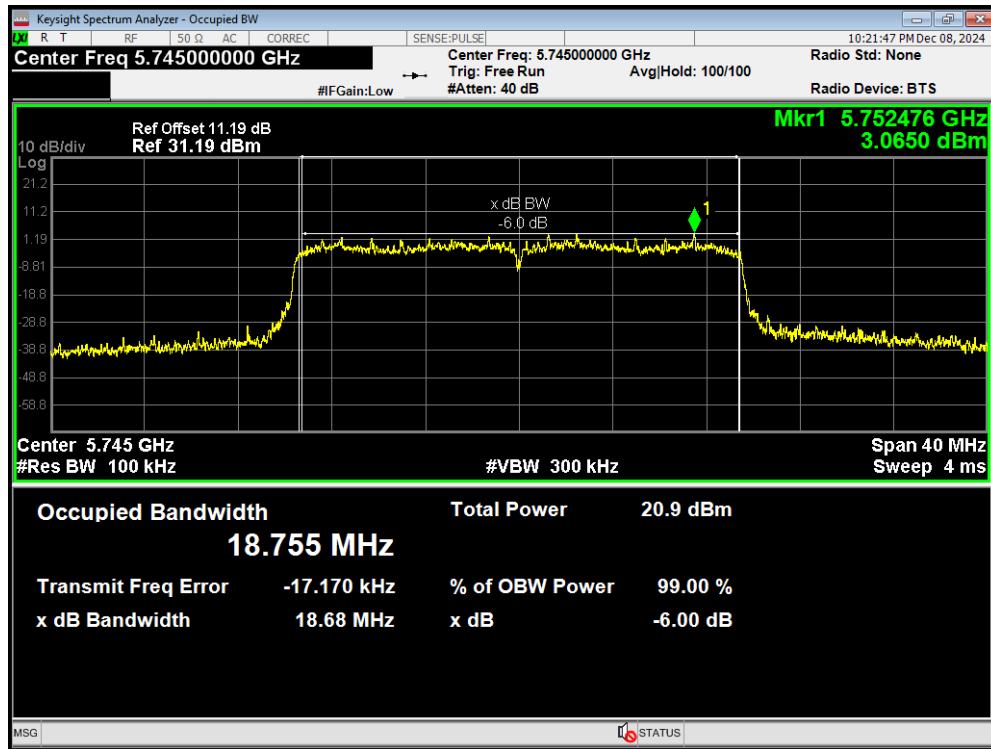
-6dB Bandwidth 802.11ax HE20 52-Tones 5785MHz



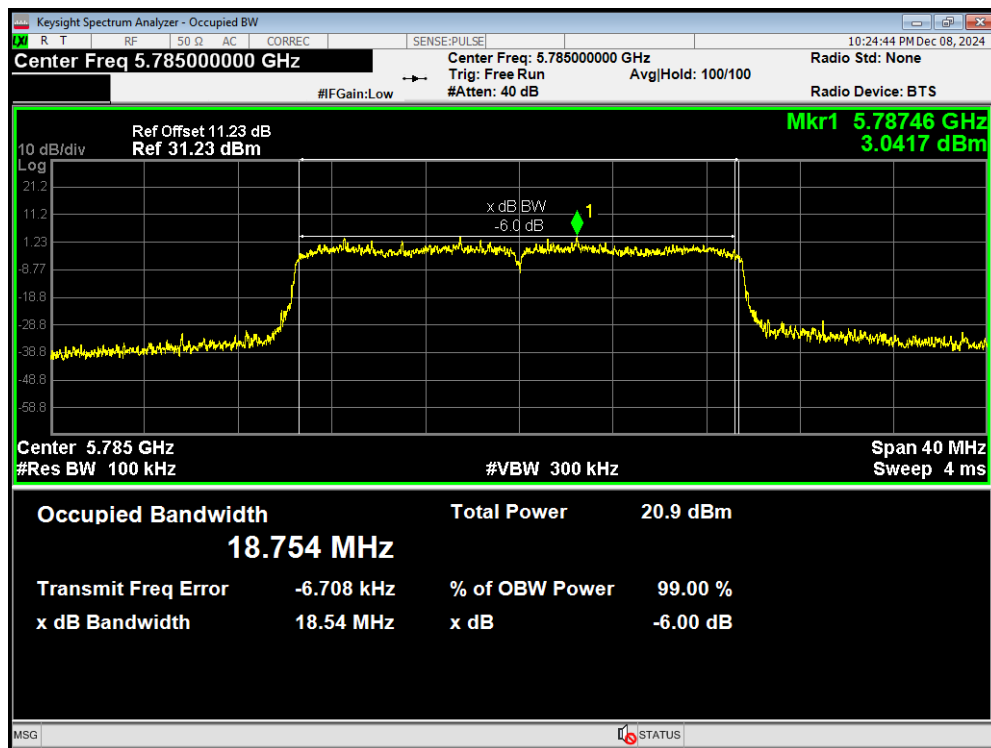
-6dB Bandwidth 802.11ax HE20 52-Tones 5825MHz



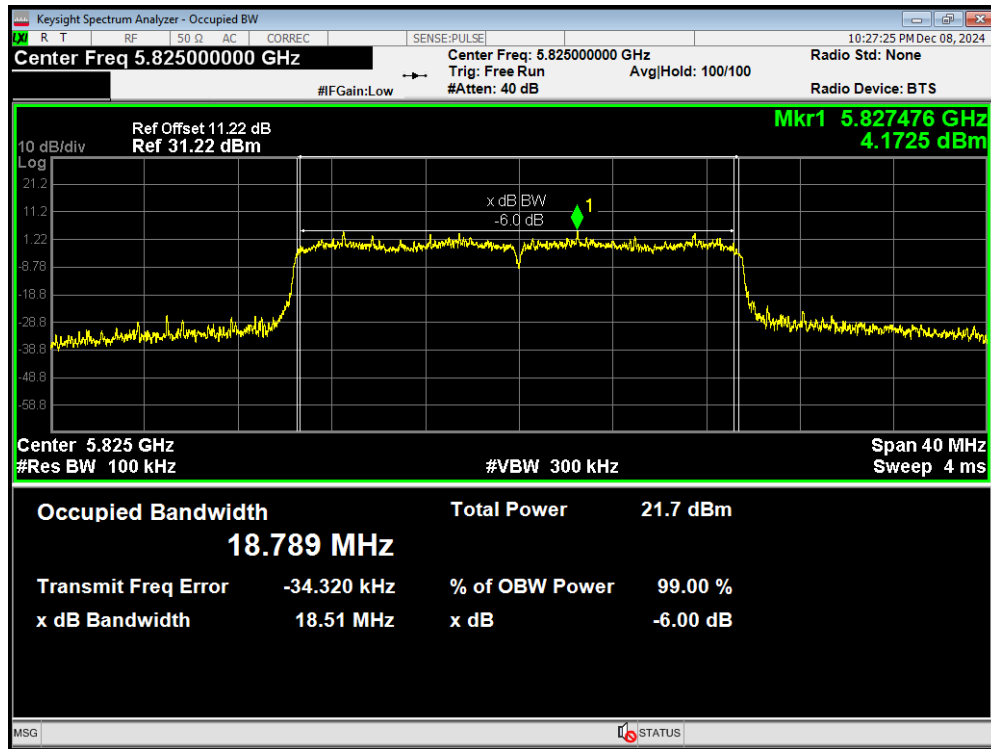
-6dB Bandwidth 802.11ax HE20 242-Tones 5745MHz



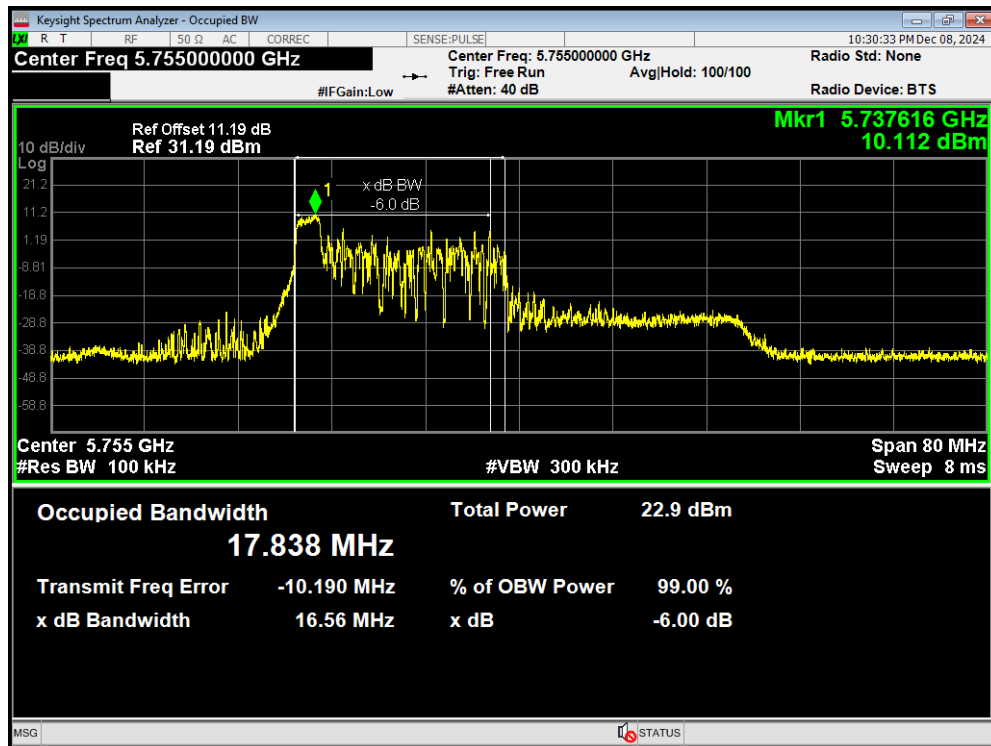
-6dB Bandwidth 802.11ax HE20 242-Tones 5785MHz



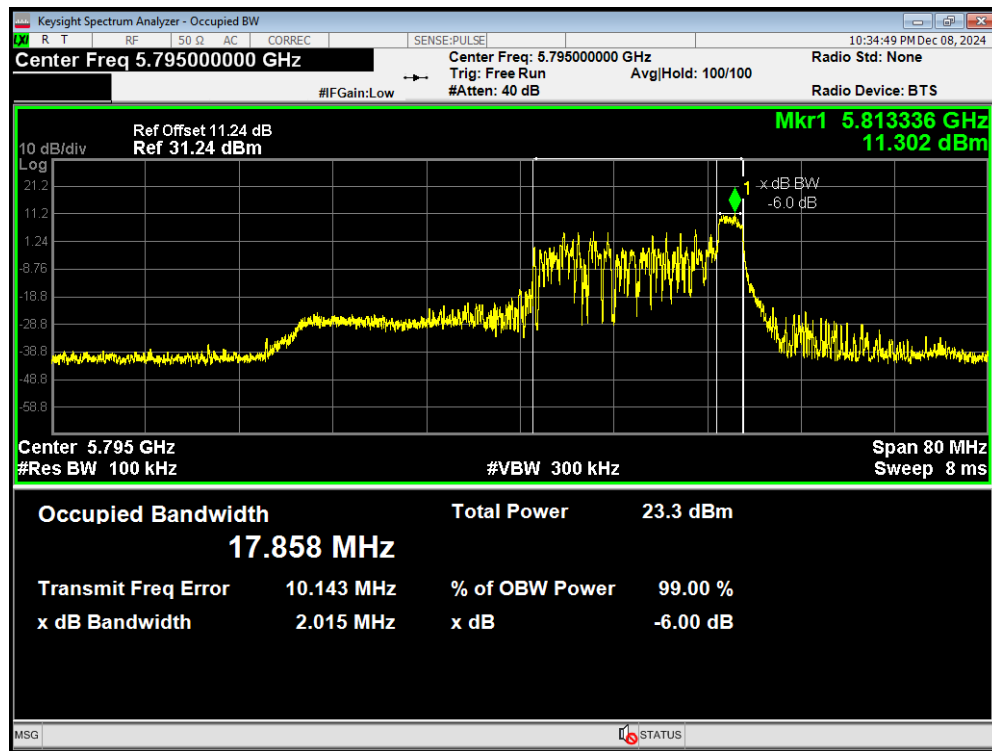
-6dB Bandwidth 802.11ax HE20 242-Tones 5825MHz



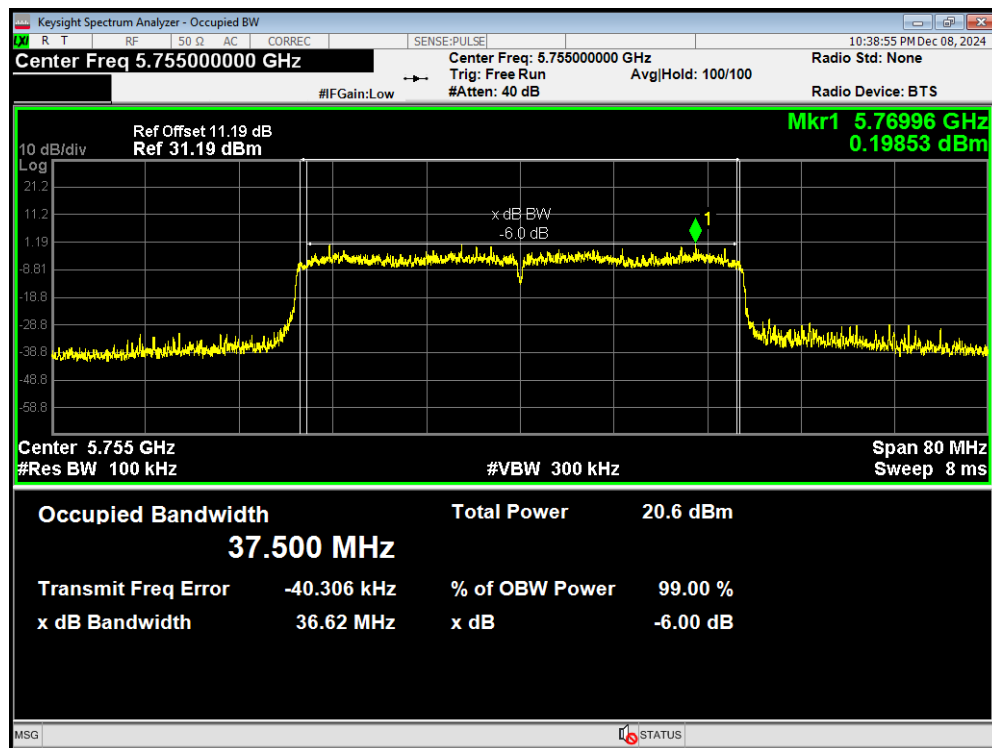
-6dB Bandwidth 802.11ax HE40 26-Tones 5755MHz



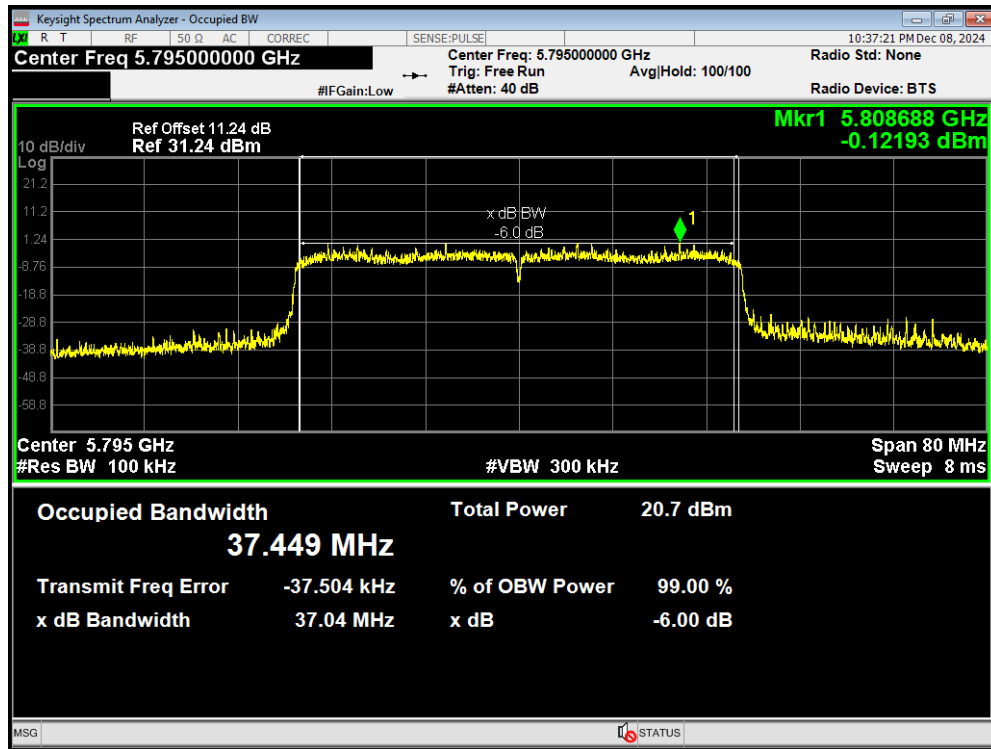
-6dB Bandwidth 802.11ax HE40 26-Tones 5795MHz



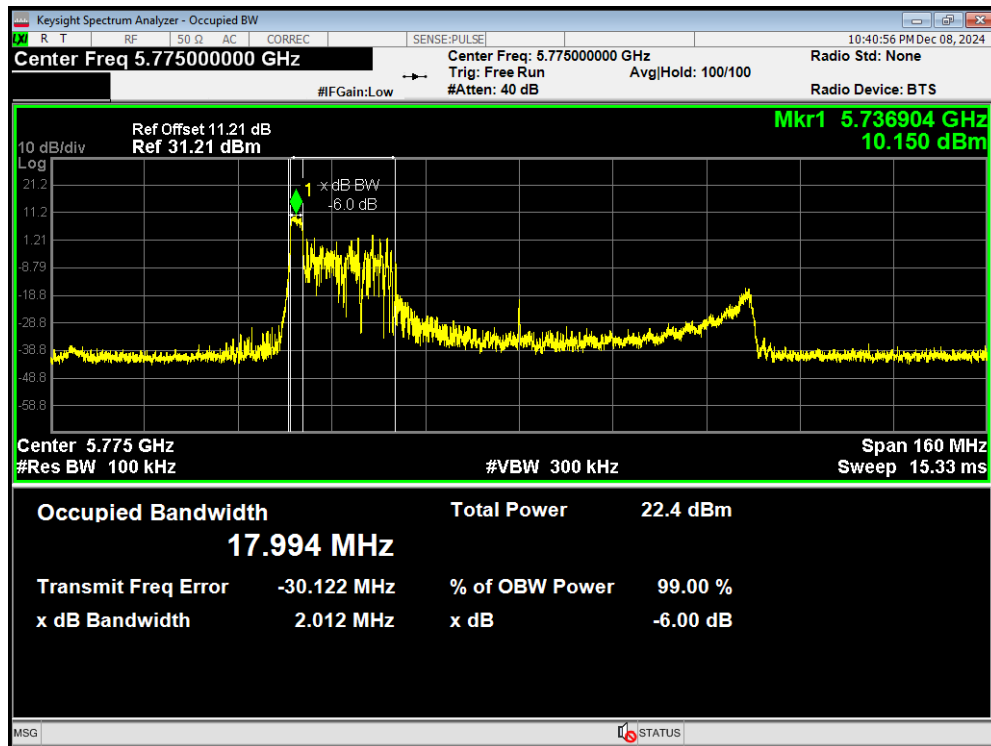
-6dB Bandwidth 802.11ax HE40 484-Tones 5755MHz



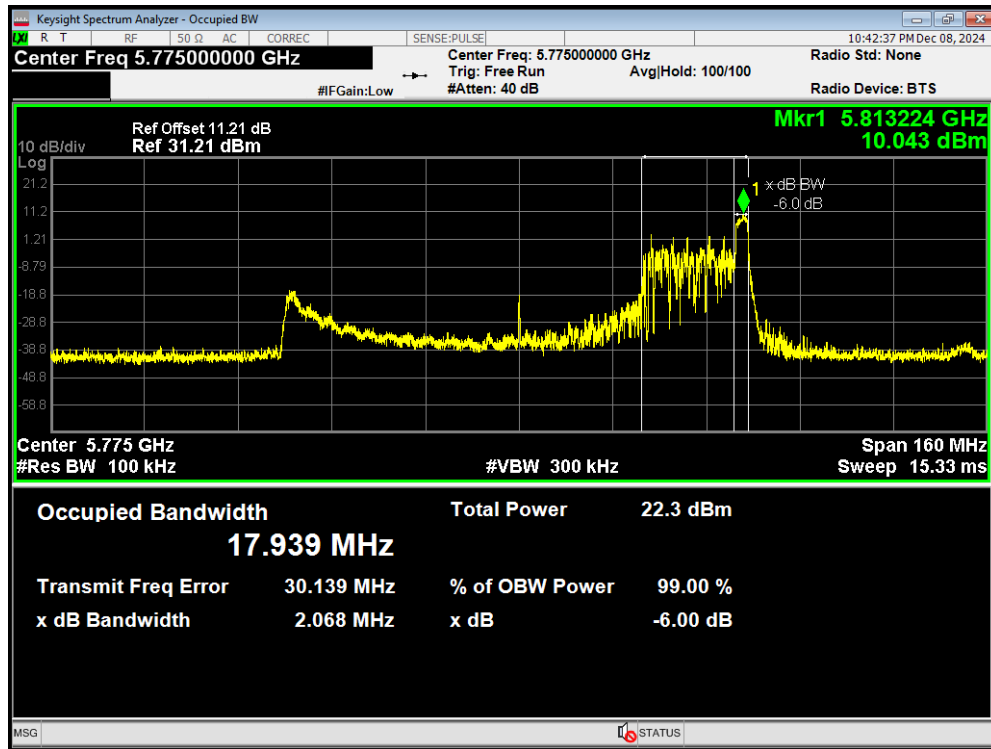
-6dB Bandwidth 802.11ax HE40 484-Tones 5795MHz



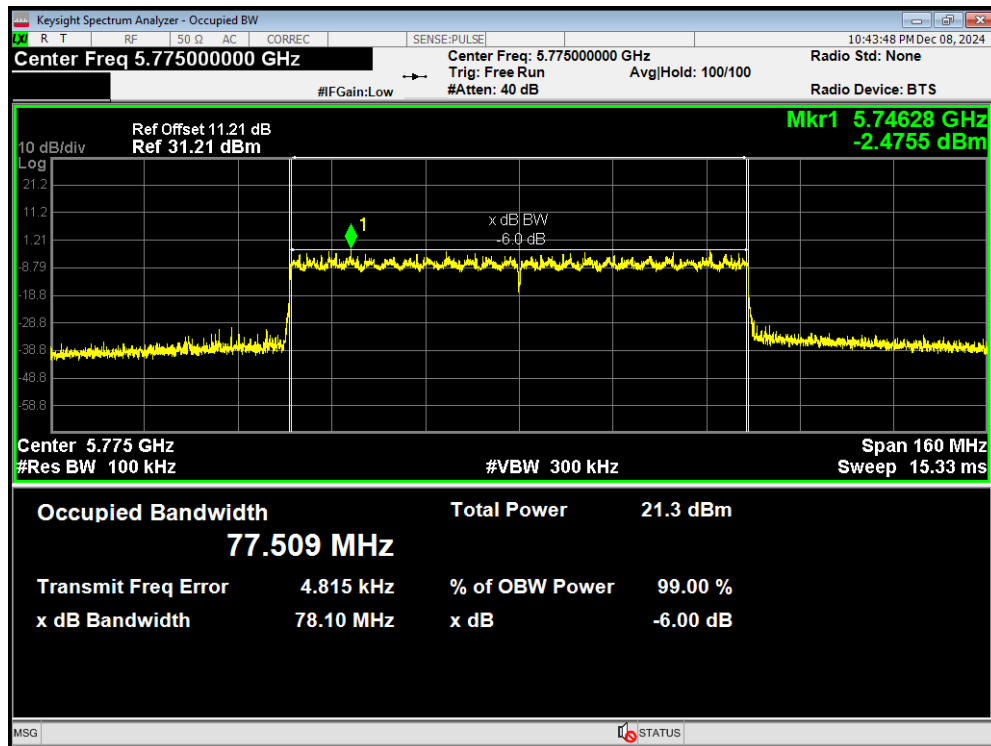
-6dB Bandwidth 802.11ax HE80 26-Tones Index0 5775MHz



-6dB Bandwidth 802.11ax HE80 26-Tones Index36 5775MHz



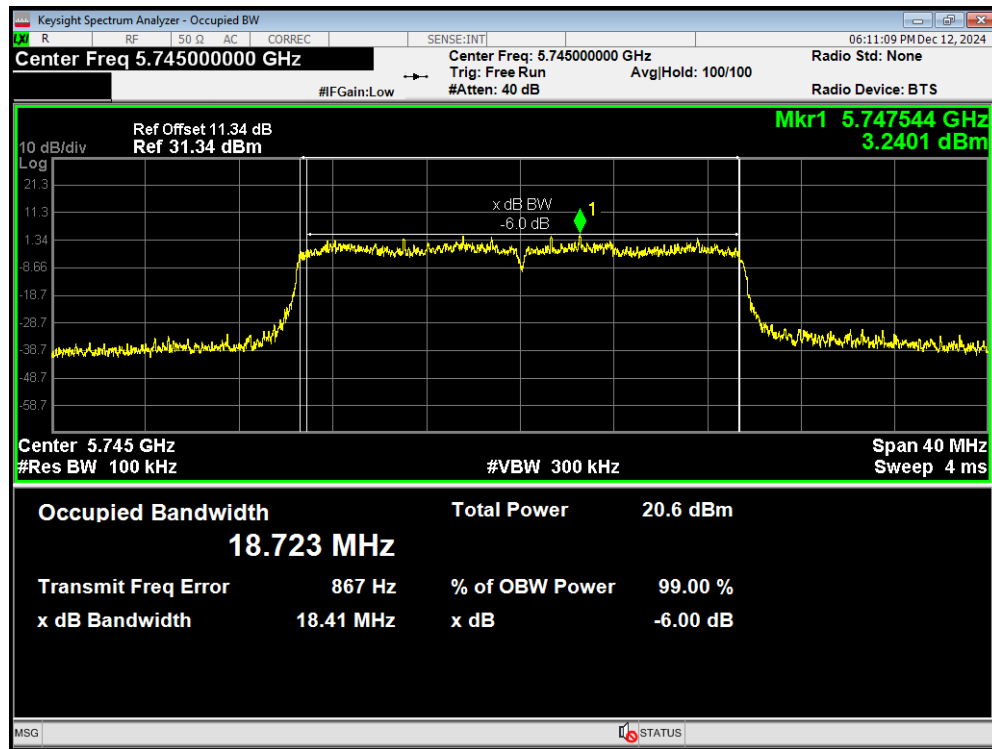
-6dB Bandwidth 802.11ax HE80 996-Tones 5775MHz



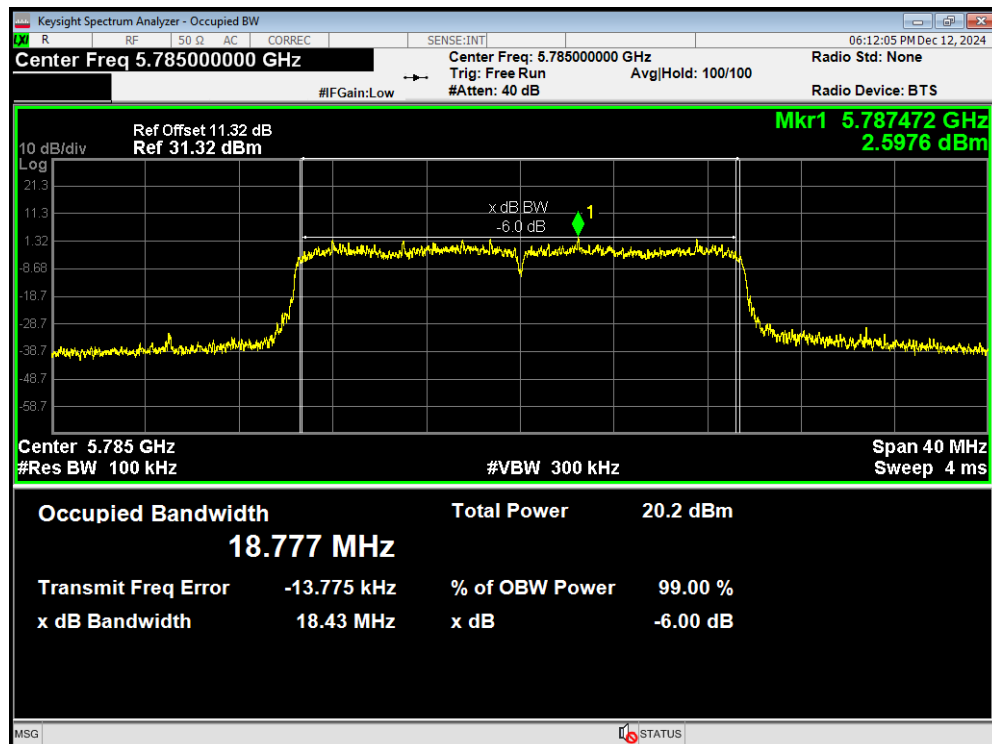
ERSU mode

U-NII-3

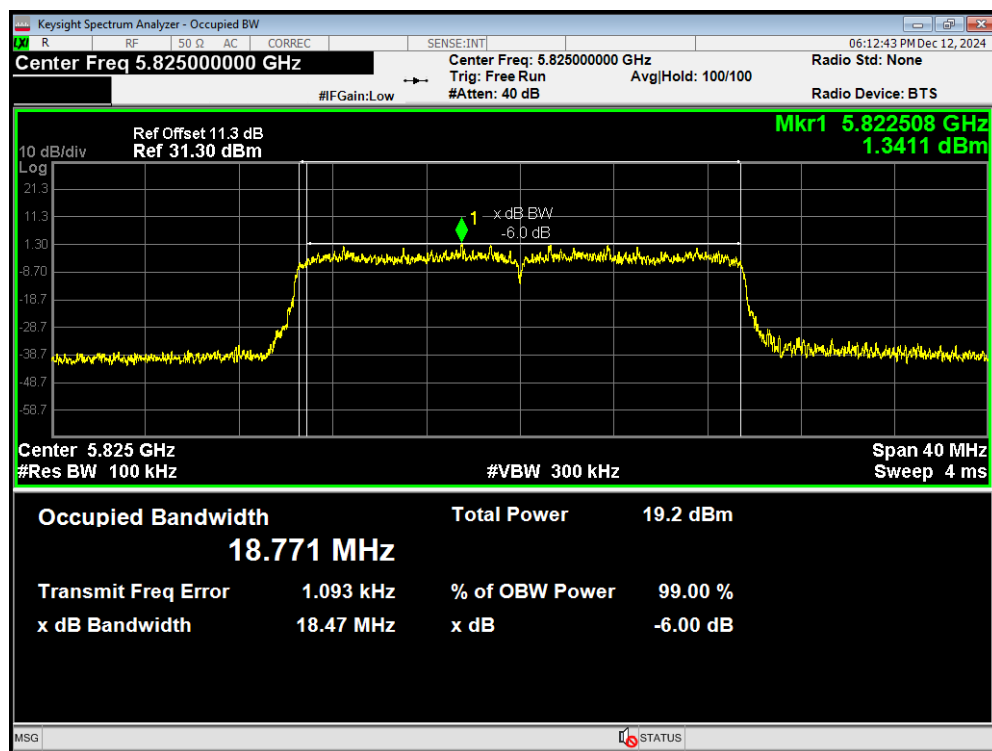
-6dB Bandwidth 802.11ax HE20 242-Tones 5745MHz



-6dB Bandwidth 802.11ax HE20 242-Tones 5785MHz



-6dB Bandwidth 802.11ax HE20 242-Tones 5825MHz



5.2. Average Power Output

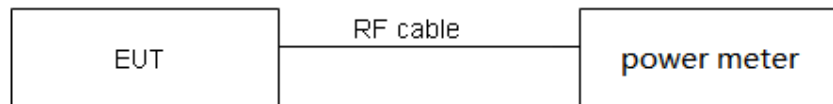
Ambient condition

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

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 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 $k = 2$, $U = 0.44$ dB.

Test Results

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.989	0.000
802.11n HT20	0.989	0.000
802.11n HT40	0.980	0.000
802.11ac VHT20	0.989	0.000
802.11ac VHT40	0.980	0.088
802.11ac VHT80	0.954	0.207
802.11ax HE20	0.985	0.000
802.11ax HE40	0.973	0.121
802.11ax HE80	0.948	0.231
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Power Index											
Channel	802.11a	802.11n HT20	802.11ac VHT20	802.11ax HE20	Channel	802.11n HT40	802.11ac VHT40	802.11ax HE40	Channel	802.11ac VHT80	802.11ax HE80
CH36	15	14	14	14	CH38	14	14	14	CH42	14	14
CH40	15	14	14	14	CH46	14	14	14	/	/	/
CH48	15	14	14	14	/	/	/		/	/	/
CH52	15	14	14	14	CH54	14	14	14	CH58	14	14
CH60	15	14	14	14	CH62	14	14	14	/	/	/
CH64	15	14	14	14	/	/	/		/	/	/
CH100	15	14	14	14	CH102	14	14	14	CH106	14	14
CH116	15	14	14	14	CH110	14	14	14	CH138	14	14
CH140	15	14	14	14	CH134	14	14	14	/	/	/
CH144	15	14	14	14	CH142	14	14	14	/	/	/
CH149	15	14	14	14	CH151	14	14	14	CH155	14	14
CH157	15	14	14	14	CH159	14	14	14	/	/	/
CH165	15	14	14	14	/	/	/		/	/	/

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	20.01	24.01>24	24.00
		60/5300	19.81	23.97<24	23.97
		64/5320	19.59	23.92<24	23.92
	802.11n HT20	52/5260	20.14	24.04>24	24.00
		60/5300	20.12	24.04>24	24.00
		64/5320	20.26	24.07>24	24.00
	802.11n HT40	54/5270	40.69	27.10>24	24.00
		62/5310	40.56	27.08>24	24.00
	802.11ac VHT20	52/5260	20.06	24.02>24	24.00
		60/5300	20.07	24.03>24	24.00
		64/5320	20.11	24.03>24	24.00
	802.11ac VHT40	54/5270	40.09	27.03>24	24.00
		62/5310	41.08	27.14>24	24.00
	802.11ac VHT80	58/5290	81.92	30.13>24	24.00
	802.11ax HE20	52/5260	20.16	24.05>24	24.00
		60/5300	20.24	24.06>24	24.00
		64/5320	20.30	24.07>24	24.00
	802.11ax HE40	54/5270	40.49	27.07>24	24.00
		62/5310	40.38	27.06>24	24.00
	802.11ax HE80	58/5290	81.25	30.10>24	24.00
U-NII-2C	802.11a	100/5500	19.87	23.98<24	23.98
		116/5580	19.72	23.95<24	23.95
		140/5700	19.82	23.97<24	23.97
		144/5720	20.11	24.03>24	24.00
	802.11n HT20	100/5500	20.17	24.05>24	24.00
		116/5580	20.20	24.05>24	24.00
		140/5700	19.90	23.99>24	23.99
		144/5720	20.10	24.03 >24	24.00
	802.11n HT40	102/5510	40.80	27.11>24	24.00
		110/5550	40.87	27.11>24	24.00
		134/5670	40.93	27.12>24	24.00
		142/5710	40.62	27.09>24	24.00
	802.11ac VHT20	100/5500	20.17	24.05>24	24.00
		116/5580	20.11	24.03>24	24.00
		140/5700	20.20	24.05>24	24.00
		144/5720	20.16	24.05>24	24.00

RF Test Report		Report Ref: RF-2024-011-Rev12			
	802.11ac VHT40	102/5510	40.80	27.11>24	24.00
		110/5550	40.27	27.05>24	24.00
		134/5670	40.75	27.10>24	24.00
		142/5710	40.97	27.12>24	24.00
	802.11ac VHT80	106/5530	81.98	30.14>24	24.00
		138/5690	82.01	30.14>24	24.00
	802.11ax HE20	100/5500	82.06	30.14>24	24.00
		116/5580	20.24	24.06>24	24.00
		140/5700	20.41	24.10>24	24.00
		144/5720	20.54	24.13>24	24.00
	802.11ax HE40	102/5510	20.15	24.04>24	24.00
		110/5550	40.49	27.07>24	24.00
		134/5670	40.82	27.11>24	24.00
		142/5710	40.72	27.10>24	24.00
802.11ax HE80	106/5530	40.71	27.10>24	24.00	
	138/5690	81.04	30.09>24	24.00	
Note: 250mW=24dBm					

U-NII-1

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	15.54	15.54	24	PASS
	40/5200	15.90	15.90	24	PASS
	48/5240	15.95	15.95	24	PASS
802.11n HT20	36/5180	14.31	14.31	24	PASS
	40/5200	14.28	14.28	24	PASS
	48/5240	14.47	14.47	24	PASS
802.11n HT40	38/5190	14.89	14.89	24	PASS
	46/5230	15.20	15.20	24	PASS
802.11ac VHT20	36/5180	14.84	14.84	24	PASS
	40/5200	15.15	15.15	24	PASS
	48/5240	15.25	15.25	24	PASS
802.11ac VHT40	38/5190	14.86	14.95	24	PASS
	46/5230	15.15	15.24	24	PASS
802.11ac VHT80	42/5210	15.02	15.23	24	PASS
802.11ax HE20	36/5180	14.74	14.74	24	PASS
	40/5200	14.67	14.67	24	PASS
	48/5240	14.66	14.66	24	PASS
802.11ax HE40	38/5190	14.50	14.62	24	PASS
	46/5230	14.63	14.75	24	PASS
802.11ax HE80	42/5210	14.53	14.76	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	15.42	15.42	23.94	PASS
	60/5300	15.16	15.16	23.93	PASS
	64/5320	15.20	15.20	23.97	PASS
802.11n HT20	52/5260	14.43	14.43	24.00	PASS
	60/5300	14.23	14.23	24.00	PASS
	64/5320	14.14	14.14	24.00	PASS
802.11n HT40	54/5270	14.53	14.53	24.00	PASS
	62/5310	14.34	14.34	24.00	PASS
802.11ac VHT20	52/5260	14.68	14.68	24.00	PASS
	60/5300	14.33	14.33	24.00	PASS
	64/5320	14.36	14.36	24.00	PASS
802.11ac VHT40	54/5270	14.46	14.55	24.00	PASS
	62/5310	14.35	14.44	24.00	PASS
802.11ac VHT80	58/5290	14.55	14.76	24.00	PASS
802.11ax HE20	52/5260	14.51	14.51	24.00	PASS
	60/5300	14.01	14.01	24.00	PASS
	64/5320	14.06	14.06	24.00	PASS
802.11ax HE40	54/5270	14.63	14.75	24.00	PASS
	62/5310	14.23	14.35	24.00	PASS
802.11ax HE80	58/5290	14.46	14.70	24.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	15.44	15.44	23.94	PASS
	116/5580	15.09	15.09	23.95	PASS
	140/5700	15.23	15.23	23.92	PASS
	144/5720	12.52	12.52	23.93	PASS
802.11n HT20	100/5500	14.53	14.53	24.00	PASS
	116/5580	14.07	14.07	24.00	PASS
	140/5700	14.41	14.41	24.00	PASS
	144/5720	11.79	11.79	24.00	PASS
802.11n HT40	102/5510	14.49	14.49	24.00	PASS
	110/5550	14.33	14.33	24.00	PASS
	134/5670	14.35	14.35	24.00	PASS
	142/5710	12.38	12.38	24.00	PASS
802.11ac VHT20	100/5500	14.57	14.57	24.00	PASS
	116/5580	14.32	14.32	24.00	PASS
	140/5700	14.45	14.45	24.00	PASS
	144/5720	13.32	13.32	24.00	PASS
802.11ac VHT40	102/5510	14.46	14.54	24.00	PASS
	110/5550	14.04	14.12	24.00	PASS
	134/5670	14.23	14.31	24.00	PASS
	142/5710	12.39	12.47	24.00	PASS
802.11ac VHT80	106/5530	14.83	15.04	24.00	PASS
	138/5690	12.22	12.42	24.00	PASS
802.11ax HE20	100/5500	14.86	14.86	24.00	PASS
	116/5580	14.12	14.12	24.00	PASS
	140/5700	14.10	14.10	24.00	PASS
	144/5720	13.05	13.05	24.00	PASS
802.11ax HE40	102/5510	14.83	14.95	24.00	PASS
	110/5550	14.04	14.16	24.00	PASS
	134/5670	14.21	14.33	24.00	PASS
	142/5710	13.43	13.55	24.00	PASS
802.11ax HE80	106/5530	14.91	15.14	24.00	PASS
	138/5690	13.57	13.80	24.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-3

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	6.39	6.39	30	PASS
	149/5745	15.12	15.12	30	PASS
	157/5785	15.06	15.06	30	PASS
	165/5825	15.46	15.46	30	PASS
802.11n HT20	144/5720	6.30	6.30	30	PASS
	149/5745	14.04	14.04	30	PASS
	157/5785	14.56	14.56	30	PASS
	165/5825	14.24	14.24	30	PASS
802.11n HT40	142/5710	2.76	2.76	30	PASS
	151/5755	14.33	14.33	30	PASS
	159/5795	14.28	14.28	30	PASS
802.11ac VHT20	144/5720	6.36	6.36	30	PASS
	149/5745	14.01	14.01	30	PASS
	157/5785	14.59	14.59	30	PASS
	165/5825	14.15	14.15	30	PASS
802.11ac VHT40	142/5710	3.00	3.08	30	PASS
	151/5755	14.31	14.39	30	PASS
	159/5795	14.24	14.33	30	PASS
802.11ac VHT80	138/5690	0.11	0.31	30	PASS
	155/5775	14.24	14.45	30	PASS
802.11ax HE20	144/5720	7.77	7.77	30	PASS
	149/5745	14.90	14.90	30	PASS
	157/5785	14.65	14.65	30	PASS
	165/5825	14.18	14.18	30	PASS
802.11ax HE40	142/5710	4.21	4.33	30	PASS
	151/5755	14.94	15.06	30	PASS
	159/5795	14.77	14.89	30	PASS
802.11ax HE80	138/5690	1.40	1.63	30	PASS
	155/5775	14.82	15.05	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

TB Mode

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11ax HE20 26-Tones:RU Index 0	0.954	0.210
802.11ax HE20 26-Tones:RU Index 4	0.954	0.210
802.11ax HE20 26-Tones:RU Index 8	0.954	0.210
02.11ax HE20 52-Tones:RU Index 37	0.954	0.210
802.11ax HE20 52-Tones:RU Index 38	0.954	0.210
802.11ax HE20 52-Tones:RU Index 40	0.954	0.210
802.11ax HE20 106-Tones:RU Index 53	0.954	0.210
802.11ax HE20 106-Tones:RU Index 54	0.954	0.210
802.11ax HE20 242-Tones:RU Index 61	0.954	0.210
802.11ax HE40 26-Tones:RU Index 0	0.954	0.210
802.11ax HE40 26-Tones:RU Index 17	0.954	0.210
802.11ax HE40 484-Tones:RU Index 65	0.954	0.210
802.11ax HE80 26-Tones:RU Index 0	0.954	0.210
802.11ax HE80 26-Tones:RU Index 36	0.954	0.210
802.11ax HE80 996-Tones:RU Index 67	0.954	0.210
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Power Index					
Test Mode	Channel	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
802.11ax HE20 26-Tones	L	11	11	11	14
	M	12	13	13	14
	H	11	12	13	14
802.11ax HE20 52-Tones	L	14	14	14	14
	M	14	14	14	14
	H	14	14	16	16
802.11ax HE20 106-Tones	L	14	14	14	14
	M	14	14	14	14
	H	14	14	16	16
802.11ax HE20 242-Tones	L	14	14	14	14
	H	14	14	16	16
802.11ax HE40 26-Tones	L	12	12	12	16
	H	12	12	14	16
802.11ax HE40 484-Tones	L	14	14	14	14
	H	14	14	15	14
802.11ax HE80 26-Tones	H	12	12	12	14
	H	12	12	12	14
802.11ax HE80 996-Tones	H	14	14	14	14

Test Mode		Channel/ Frequency (MHz)	RU Index	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11ax HE20 26-Tones	52/5260	0	19.13	23.82 <24	23.82
		60/5300	4	17.99	23.55 <24	23.55
		64/5320	8	19.12	23.81 <24	23.81
	802.11ax HE20 52-Tones	52/5260	37	18.97	23.78 <24	23.78
		60/5300	38	18.28	23.62 <24	23.62
		64/5320	40	19.23	23.84 <24	23.84
	802.11ax HE20 106-Tones	52/5260	53	18.95	23.78 <24	23.78
		60/5300	53	19.34	23.86 <24	23.86
		64/5320	54	19.49	23.90 <24	23.90
	802.11ax HE20 242-Tones	52/5260	61	20.41	24.10 >24	24.00
		64/5320	61	20.57	24.13 >24	24.00
	802.11ax HE40 26-Tones	54/5270	0	20.04	24.02 >24	24.00
		62/5310	17	20.90	24.20 >24	24.00
	802.11ax HE40 484-Tones	54/5270	65	41.00	27.13 >24	24.00
		62/5310	65	40.78	27.10 >24	24.00
U-NII-2C	802.11ax HE20 26-Tones	58/5290	0	80.50	30.06 >24	24.00
		42/5210	36	79.98	30.03 >24	24.00
		58/5290	67	83.52	30.22 >24	24.00
	802.11ax HE20 52-Tones	100/5500	0	18.32	23.63 <24	23.63
		116/5580	4	18.05	23.57 <24	23.57
		140/5700	8	19.17	23.83 <24	23.83
	802.11ax HE20 106-Tones	100/5500	37	19.21	23.83 <24	23.83
		116/5580	38	18.32	23.63 <24	23.63
		140/5700	40	19.11	23.81 <24	23.81
	802.11ax HE20 242-Tones	100/5500	53	19.24	23.84 <24	23.84
		116/5580	53	19.20	23.83 <24	23.83
		140/5700	54	19.26	23.85 <24	23.85
	802.11ax HE40 26-Tones	100/5500	61	20.30	24.07 >24	24.00
		140/5700	61	29.78	25.74 >24	24.00
	802.11ax HE80 26-Tones	102/5510	0	20.26	24.07 >24	24.00
		134/5670	17	20.78	24.18 >24	24.00
	802.11ax HE80 484-Tones	102/5510	65	40.65	27.09 >24	24.00
		134/5670	65	49.27	27.93 >24	24.00
	802.11ax HE80 996-Tones	106/5530	0	80.32	30.05 >24	24.00
		106/5530	36	80.41	30.05 >24	24.00
	802.11ax HE80 996-Tones	106/5530	67	98.82	30.95 >24	24.00
		106/5530	67	98.82	30.95 >24	24.00

Note: 250mW=24dBm

U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	12.12	12.33	24	PASS
	40/5200	4	13.20	13.41	24	PASS
	48/5240	8	12.27	12.48	24	PASS
802.11ax HE20 52-Tones	36/5180	37	14.16	14.37	24	PASS
	40/5200	38	14.84	15.05	24	PASS
	48/5240	40	14.49	14.70	24	PASS
802.11ax HE20 106-Tones	36/5180	53	14.69	14.90	24	PASS
	40/5200	53	14.62	14.83	24	PASS
	48/5240	54	14.61	14.82	24	PASS
802.11ax HE20 242-Tones	36/5180	61	14.08	14.29	24	PASS
	48/5240	61	14.46	14.67	24	PASS
802.11ax HE40 26-Tones	38/5190	0	11.98	12.19	24	PASS
	46/5230	17	12.19	12.40	24	PASS
802.11ax HE40 484-Tones	38/5190	65	14.57	14.78	24	PASS
	46/5230	65	14.76	14.97	24	PASS
802.11ax HE80 26-Tones	42/5210	0	12.68	12.89	24	PASS
	42/5210	36	12.58	12.79	24	PASS
802.11ax HE80 996-Tones	42/5210	67	14.73	14.94	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	11.83	12.04	23.82	PASS
	60/5300	4	13.73	13.94	23.55	PASS
	64/5320	8	12.27	12.48	23.81	PASS
802.11ax HE20 52-Tones	52/5260	37	14.88	15.09	23.78	PASS
	60/5300	38	14.79	15.00	23.62	PASS
	64/5320	40	14.41	14.62	23.84	PASS
802.11ax HE20 106-Tones	52/5260	53	15.01	15.22	23.78	PASS
	60/5300	53	14.63	14.84	23.86	PASS
	64/5320	54	14.58	14.79	23.90	PASS
802.11ax HE20 242-Tones	52/5260	61	13.97	14.18	24.00	PASS
	64/5320	61	13.97	14.18	24.00	PASS
802.11ax HE40 26-Tones	54/5270	0	12.55	12.76	24.00	PASS
	62/5310	17	12.31	12.52	24.00	PASS
802.11ax HE40 484-Tones	54/5270	65	14.48	14.69	24.00	PASS
	62/5310	65	14.09	14.30	24.00	PASS
802.11ax HE80 26-Tones	58/5290	0	12.32	12.53	24.00	PASS
	58/5290	36	12.55	12.76	24.00	PASS
802.11ax HE80 996-Tones	58/5290	67	14.35	14.56	24.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	11.90	12.11	23.63	PASS
	116/5580	4	13.91	14.12	23.57	PASS
	140/5700	8	11.94	12.15	23.83	PASS
802.11ax HE20 52-Tones	100/5500	37	14.86	15.07	23.83	PASS
	116/5580	38	14.08	14.29	23.63	PASS
	140/5700	40	14.15	14.36	23.81	PASS
802.11ax HE20 106-Tones	100/5500	53	14.92	15.13	23.84	PASS
	116/5580	53	13.89	14.10	23.83	PASS
	140/5700	54	14.19	14.40	23.85	PASS
802.11ax HE20 242-Tones	100/5500	61	14.46	14.67	24.00	PASS
	140/5700	61	14.69	14.90	24.00	PASS
802.11ax HE40 26-Tones	102/5510	0	12.39	12.60	24.00	PASS
	134/5670	17	12.54	12.75	24.00	PASS
802.11ax HE40 484-Tones	102/5510	65	14.70	14.91	24.00	PASS
	134/5670	65	13.92	14.13	24.00	PASS
802.11ax HE80 26-Tones	106/5530	0	12.56	12.77	24.00	PASS
	106/5530	36	12.16	12.37	24.00	PASS
802.11ax HE80 996-Tones	106/5530	67	14.59	14.80	24.00	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	14.36	14.57	30	PASS
	157/5785	4	14.15	14.36	30	PASS
	165/5825	8	14.06	14.27	30	PASS
802.11ax HE20 52-Tones	149/5745	37	13.96	14.17	30	PASS
	157/5785	38	14.00	14.21	30	PASS
	165/5825	40	14.17	14.38	30	PASS
802.11ax HE20 106-Tones	149/5745	53	13.94	14.15	30	PASS
	157/5785	53	13.82	14.03	30	PASS
	165/5825	54	14.26	14.47	30	PASS
802.11ax HE20 242-Tones	149/5745	61	13.90	14.11	30	PASS
	165/5825	61	14.62	14.83	30	PASS
802.11ax HE40 26-Tones	151/5755	0	14.66	14.87	30	PASS
	159/5795	17	14.78	14.99	30	PASS
802.11ax HE40 484-Tones	151/5755	65	13.99	14.20	30	PASS
	159/5795	65	14.04	14.25	30	PASS
802.11ax HE80 26-Tones	155/5775	0	14.30	14.51	30	PASS
	155/5775	36	14.27	14.48	30	PASS
802.11ax HE80 996-Tones	155/5775	67	14.06	14.27	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor						

ERSU Mode

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11ax HE20 242-Tones:RU Index 61	0.954	0.210
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Power Index	
Test Mode	
802.11ax HE20 242-Tones	14

Test Mode		Channel/ Frequency (MHz)	RU Index	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11ax HE20 242-Tones	52/5260	61	20.30	24.07>24	24.00
		60/5300	61	20.40	24.09>24	24.00
		64/5320	61	20.40	24.09>24	24.00
U-NII-2C	802.11ax HE20 242-Tones	100/5500	61	20.38	24.09>24	24.00
		116/5580	61	20.58	24.13>24	24.00
		140/5700	61	20.32	24.08>24	24.00
Note: 250mW=24dBm						

U-NII-1

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11ax HE20 (242-Tones)	36/5180	61	14.48	14.69	24	PASS
	40/5200	61	14.70	14.91	24	PASS
	48/5240	61	14.78	14.99	24	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11ax HE20 (242-Tones)	52/5260	61	14.95	15.16	24	PASS
	60/5300	61	14.63	14.84	24	PASS
	64/5320	61	14.60	14.81	24	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11ax HE20 (242-Tones)	100/5500	61	15.36	15.57	24	PASS
	116/5580	61	13.97	14.18	24	PASS
	140/5700	61	14.90	15.11	24	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

U-NII-3

Test Mode	Channel/ Frequency (MHz)	RU Index	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11ax HE20 (242-Tones)	149/5745	61	14.03	14.24	30	PASS
	157/5785	61	13.91	14.12	30	PASS
	165/5825	61	14.62	14.83	30	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

5.3. Frequency Stability

Ambient condition

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

Method of Measurement

1. Frequency stability with respect to ambient temperature

- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.
- b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.
- c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in 5.6.
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15°C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

- b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in 5.6.
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936\text{Hz}$

Test Results

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
3.3	-20	5199.995839	5199.992597	5199.987767	5199.983472
3.3	-10	5200.001616	5199.988067	5199.981996	5199.979510
3.3	0	5199.995627	5199.984112	5199.973826	5199.973435
3.3	10	5199.989491	5199.979534	5199.968367	5199.969471
3.3	20	5199.985360	5199.971325	5199.960380	5199.962025
3.3	30	5199.976828	5199.964612	5199.955672	5199.954979
3.3	40	5199.971702	5199.960851	5199.951721	5199.948703
3.3	50	5199.971637	5199.960059	5199.949179	5199.940073
3.14	20	5199.966113	5199.951563	5199.945961	5199.932050
3.46	20	5199.964448	5199.943466	5199.937315	5199.925628
Max. ΔMHz		-0.035552	-0.056534	-0.062685	-0.074372
PPM		-6.836923	-10.871923	-12.054808	-14.302308

Voltage (V)	Temperature (°C)	U-NII-2A Test Results			
		5300MHz			
		1min	2min	5min	10min
3.3	-20	5299.993387	5299.984440	5299.979531	5299.974924
3.3	-10	5299.990562	5299.976948	5299.970334	5299.973364
3.3	0	5299.984771	5299.971192	5299.968641	5299.968825
3.3	10	5299.984003	5299.963016	5299.966067	5299.959591
3.3	20	5299.976370	5299.956189	5299.958477	5299.956425
3.3	30	5299.974266	5299.947291	5299.957134	5299.948398
3.3	40	5299.968891	5299.945578	5299.953706	5299.940639
3.3	50	5299.959839	5299.936473	5299.949038	5299.937369
3.14	20	5299.952836	5299.927738	5299.942821	5299.934494
3.46	20	5299.952470	5299.923896	5299.942595	5299.933902
Max. ΔMHz		-0.047530	-0.076104	-0.057405	-0.066098
PPM		-8.967925	-14.359245	-10.831132	-12.471321

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		MHz			
		1min	2min	5min	10min
3.3	-20	5579.995319	5579.988427	5579.984826	5579.981668
3.3	-10	5579.991322	5579.978523	5579.983504	5579.977519
3.3	0	5579.983286	5579.974047	5579.980944	5579.977351
3.3	10	5579.983176	5579.967898	5579.973226	5579.968670
3.3	20	5579.977278	5579.958404	5579.968049	5579.959385
3.3	30	5579.971174	5579.954392	5579.966819	5579.952463
3.3	40	5579.968674	5579.948901	5579.965380	5579.949756
3.3	50	5579.962828	5579.942057	5579.962086	5579.941337
3.14	20	5579.961141	5579.936868	5579.953325	5579.939043
3.46	20	5579.955678	5579.928770	5579.947616	5579.929506
Max. ΔMHz		-0.044322	-0.071230	-0.052384	-0.070494
PPM		-7.943011	-12.765233	-9.387814	-12.633333

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
3.3	-20	5785.007393	5784.998310	5784.995853	5784.991293
3.3	-10	5784.999213	5784.990891	5784.985966	5784.986761
3.3	0	5784.992639	5784.981150	5784.985733	5784.978188
3.3	10	5784.989514	5784.975181	5784.983733	5784.973783
3.3	20	5784.985741	5784.968944	5784.977393	5784.971064
3.3	30	5784.980405	5784.961616	5784.970976	5784.969663
3.3	40	5784.974658	5784.953103	5784.970527	5784.965328
3.3	50	5784.970107	5784.945621	5784.967867	5784.963232
3.14	20	5784.967343	5784.942221	5784.967600	5784.963199
3.46	20	5784.962399	5784.934661	5784.962542	5784.955888
Max. ΔMHz		-0.037601	-0.065339	-0.037458	-0.044112
PPM		-6.499741	-11.294555	-6.475022	-7.625238

5.4. Power Spectral Density

Ambient condition

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

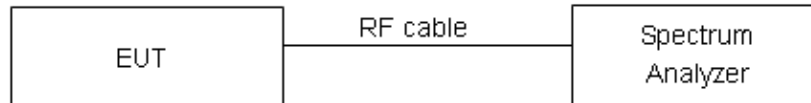
Method of Measurement

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 1MHz, VBW = 3MHz for the band 5.150-5.250GHz, 5.250-5.350GHz, 5.470-5.725GHz.
Set RBW = 470kHz, VBW = 1.5MHz for the band 5.725-5.850GHz

The conducted PSD 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)

For an indoor access point operating in the band 5.15-5.25 GHz, 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz 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.

Frequency Bands/GHz	Limits
5.15-5.25	11dBm/MHz
5.25-5.35 and 5.47-5.725	11dBm/MHz
5.725-5.85	30dBm/500kHz

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

Test Results:
U-NII-1

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	5.37	5.37	11	PASS
	40/5200	5.53	5.53	11	PASS
	48/5240	5.74	5.74	11	PASS
802.11n HT20	36/5180	4.13	4.13	11	PASS
	40/5200	4.53	4.53	11	PASS
	48/5240	4.50	4.50	11	PASS
802.11n HT40	38/5190	1.39	1.39	11	PASS
	46/5230	1.85	1.85	11	PASS
802.11ac VHT20	36/5180	4.50	4.50	11	PASS
	40/5200	4.65	4.65	11	PASS
	48/5240	4.84	4.84	11	PASS
802.11ac VHT40	38/5190	1.53	1.62	11	PASS
	46/5230	1.96	2.05	11	PASS
802.11ac VHT80	42/5210	-1.94	-1.73	11	PASS
802.11ax HE20	36/5180	4.02	4.02	11	PASS
	40/5200	4.03	4.03	11	PASS
	48/5240	4.03	4.03	11	PASS
802.11ax HE40	38/5190	1.17	1.29	11	PASS
	46/5230	0.97	1.09	11	PASS
802.11ax HE80	42/5210	-2.12	-1.89	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-2A

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	5.48	5.48	11	PASS
	60/5300	4.92	4.92	11	PASS
	64/5320	5.15	5.15	11	PASS
802.11n HT20	52/5260	3.91	3.91	11	PASS
	60/5300	3.66	3.66	11	PASS
	64/5320	3.78	3.78	11	PASS
802.11n HT40	54/5270	0.99	0.99	11	PASS
	62/5310	0.79	0.79	11	PASS
802.11ac VHT20	52/5260	4.05	4.05	11	PASS
	60/5300	4.16	4.16	11	PASS
	64/5320	3.82	3.82	11	PASS
802.11ac VHT40	54/5270	1.28	1.37	11	PASS
	62/5310	0.85	0.94	11	PASS
802.11ac VHT80	58/5290	-2.40	-2.19	11	PASS
802.11ax HE20	52/5260	4.02	4.02	11	PASS
	60/5300	3.65	3.65	11	PASS
	64/5320	3.84	3.84	11	PASS
802.11ax HE40	54/5270	1.08	1.20	11	PASS
	62/5310	0.72	0.84	11	PASS
802.11ax HE80	58/5290	-2.00	-1.77	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-2C

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	5.35	5.35	11	PASS
	116/5580	5.18	5.18	11	PASS
	140/5700	5.06	5.06	11	PASS
	144/5720	3.47	3.47	11	PASS
802.11n HT20	100/5500	4.04	4.04	11	PASS
	116/5580	3.52	3.52	11	PASS
	140/5700	3.96	3.96	11	PASS
	144/5720	2.52	2.52	11	PASS
802.11n HT40	102/5510	1.09	1.09	11	PASS
	110/5550	1.23	1.23	11	PASS
	134/5670	1.21	1.21	11	PASS
	142/5710	-0.67	-0.67	11	PASS
802.11ac VHT20	100/5500	3.99	3.99	11	PASS
	116/5580	3.44	3.44	11	PASS
	140/5700	4.01	4.01	11	PASS
	144/5720	4.13	4.13	11	PASS
802.11ac VHT40	102/5510	1.08	1.17	11	PASS
	110/5550	1.16	1.25	11	PASS
	134/5670	1.70	1.79	11	PASS
	142/5710	-0.56	-0.47	11	PASS
802.11ac VHT80	106/5530	-1.83	-1.62	11	PASS
	138/5690	-4.82	-4.61	11	PASS
802.11ax HE20	100/5500	4.36	4.36	11	PASS
	116/5580	3.88	3.88	11	PASS
	140/5700	3.49	3.49	11	PASS
	144/5720	3.90	3.90	11	PASS
802.11ax HE40	102/5510	1.17	1.29	11	PASS
	110/5550	0.87	0.99	11	PASS
	134/5670	0.83	0.95	11	PASS
	142/5710	0.45	0.57	11	PASS
802.11ax HE80	106/5530	-1.39	-1.16	11	PASS
	138/5690	-2.97	-2.74	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-3

Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	-0.01	0.26	30	PASS
	149/5745	1.56	1.83	30	PASS
	157/5785	1.13	1.40	30	PASS
	165/5825	2.13	2.40	30	PASS
802.11n HT20	144/5720	-0.97	-0.70	30	PASS
	149/5745	0.55	0.82	30	PASS
	157/5785	0.65	0.92	30	PASS
	165/5825	0.19	0.46	30	PASS
802.11n HT40	142/5710	-4.07	-3.80	30	PASS
	151/5755	-2.17	-1.90	30	PASS
	159/5795	-2.74	-2.47	30	PASS
802.11ac VHT20	144/5720	-1.19	-0.92	30	PASS
	149/5745	0.05	0.32	30	PASS
	157/5785	0.73	1.00	30	PASS
	165/5825	0.26	0.53	30	PASS
802.11ac VHT40	142/5710	-3.85	-3.49	30	PASS
	151/5755	-2.46	-2.10	30	PASS
	159/5795	-2.63	-2.27	30	PASS
802.11ac VHT80	138/5690	-7.42	-6.94	30	PASS
	155/5775	-6.17	-5.69	30	PASS
802.11ax HE20	144/5720	0.16	0.43	30	PASS
	149/5745	0.97	1.24	30	PASS
	157/5785	0.8	1.07	30	PASS
	165/5825	0.1	0.37	30	PASS
802.11ax HE40	142/5710	-2.49	-2.10	30	PASS
	151/5755	-1.92	-1.53	30	PASS
	159/5795	-2.04	-1.65	30	PASS
802.11ax HE80	138/5690	-6.46	-5.96	30	PASS
	155/5775	-4.94	-4.44	30	PASS

Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)

Mode
U-NII-1

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	36/5180	0	10.28	10.49	11	PASS
	40/5200	4	10.02	10.23	11	PASS
	48/5240	8	10.22	10.43	11	PASS
802.11ax HE20 52-Tones	36/5180	37	10.23	10.44	11	PASS
	40/5200	38	10.41	10.62	11	PASS
	48/5240	40	10.19	10.40	11	PASS
802.11ax HE20 106-Tones	36/5180	53	7.54	7.75	11	PASS
	40/5200	53	7.23	7.44	11	PASS
	48/5240	54	7.60	7.81	11	PASS
802.11ax HE20 242-Tones	36/5180	61	3.43	3.64	11	PASS
	48/5240	61	3.98	4.19	11	PASS
802.11ax HE40 26-Tones	38/5190	0	9.97	10.18	11	PASS
	46/5230	17	10.34	10.55	11	PASS
802.11ax HE40 484-Tones	38/5190	65	1.02	1.23	11	PASS
	46/5230	65	1.33	1.54	11	PASS
802.11ax HE80 26-Tones	42/5210	0	10.46	10.67	11	PASS
	42/5210	36	10.18	10.39	11	PASS
802.11ax HE80 996-Tones	42/5210	67	-1.87	-1.66	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor						

U-NII-2A

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	52/5260	0	9.94	10.15	11	PASS
	60/5300	4	10.50	10.71	11	PASS
	64/5320	8	10.47	10.68	11	PASS
802.11ax HE20 52-Tones	52/5260	37	10.58	10.79	11	PASS
	60/5300	38	10.58	10.79	11	PASS
	64/5320	40	10.37	10.58	11	PASS
802.11ax HE20 106-Tones	52/5260	53	7.78	7.99	11	PASS
	60/5300	53	7.37	7.58	11	PASS
	64/5320	54	7.06	7.27	11	PASS
802.11ax HE20 242-Tones	52/5260	61	3.64	3.85	11	PASS
	64/5320	61	3.50	3.71	11	PASS
802.11ax HE40 26-Tones	54/5270	0	10.25	10.46	11	PASS
	62/5310	17	10.34	10.55	11	PASS
802.11ax HE40 484-Tones	54/5270	65	1.20	1.41	11	PASS
	62/5310	65	0.50	0.71	11	PASS
802.11ax HE80 26-Tones	58/5290	0	10.20	10.41	11	PASS
	58/5290	36	10.69	10.90	11	PASS
802.11ax HE80 996-Tones	58/5290	67	-1.53	-1.32	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor						

U-NII-2C

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 26-Tones	100/5500	0	10.01	10.22	11	PASS
	116/5580	4	10.58	10.79	11	PASS
	140/5700	8	10.03	10.24	11	PASS
802.11ax HE20 52-Tones	100/5500	37	10.64	10.85	11	PASS
	116/5580	38	9.57	9.78	11	PASS
	140/5700	40	9.88	10.09	11	PASS
802.11ax HE20 106-Tones	100/5500	53	7.97	8.18	11	PASS
	116/5580	53	6.64	6.85	11	PASS
	140/5700	54	9.84	10.05	11	PASS
802.11ax HE20 242-Tones	100/5500	61	3.93	4.14	11	PASS
	140/5700	61	4.32	4.53	11	PASS
802.11ax HE40 26-Tones	102/5510	0	10.62	10.83	11	PASS
	134/5670	17	10.41	10.62	11	PASS
802.11ax HE40 484-Tones	102/5510	65	1.26	1.47	11	PASS
	134/5670	65	0.53	0.74	11	PASS
802.11ax HE80 26-Tones	106/5530	0	10.48	10.69	11	PASS
	106/5530	36	10.56	10.77	11	PASS
802.11ax HE80 996-Tones	106/5530	67	-0.95	-0.74	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor						

U-NII-3

Mode	Channel /Frequency (MHz)	RU Index	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11ax HE20 26-Tones	149/5745	0	9.55	10.03	30	PASS
	157/5785	4	8.86	9.34	30	PASS
	165/5825	8	9.25	9.73	30	PASS
802.11ax HE20 52-Tones	149/5745	37	6.21	6.69	30	PASS
	157/5785	38	6.54	7.02	30	PASS
	165/5825	40	6.42	6.90	30	PASS
802.11ax HE20 106-Tones	149/5745	53	3.76	4.24	30	PASS
	157/5785	53	3.34	3.82	30	PASS
	165/5825	54	3.93	4.41	30	PASS
802.11ax HE20 242-Tones	149/5745	61	0.07	0.55	30	PASS
	165/5825	61	0.72	1.20	30	PASS
802.11ax HE40 26-Tones	151/5755	0	10.30	10.78	30	PASS
	159/5795	17	9.84	10.32	30	PASS
802.11ax HE40 484-Tones	151/5755	65	-3.02	-2.54	30	PASS
	159/5795	65	-2.91	-2.43	30	PASS
802.11ax HE80 26-Tones	155/5775	0	8.71	9.19	30	PASS
	155/5775	36	9.77	10.25	30	PASS
802.11ax HE80 996-Tones	155/5775	67	-5.95	-5.47	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)						

ERSU Mode
U-NII-1

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 (242-Tones)	36/5180	61	4.06	4.27	11	PASS
	40/5200	61	4.64	4.85	11	PASS
	48/5240	61	4.63	4.84	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2A

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 (242-Tones)	52/5260	61	4.33	4.54	11	PASS
	60/5300	61	4.01	4.22	11	PASS
	64/5320	61	4.00	4.21	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2C

Mode	Channel/ Frequency (MHz)	RU Index	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11ax HE20 (242-Tones)	100/5500	61	4.76	4.97	11	PASS
	116/5580	61	3.62	3.83	11	PASS
	140/5700	61	4.22	4.43	11	PASS

Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor

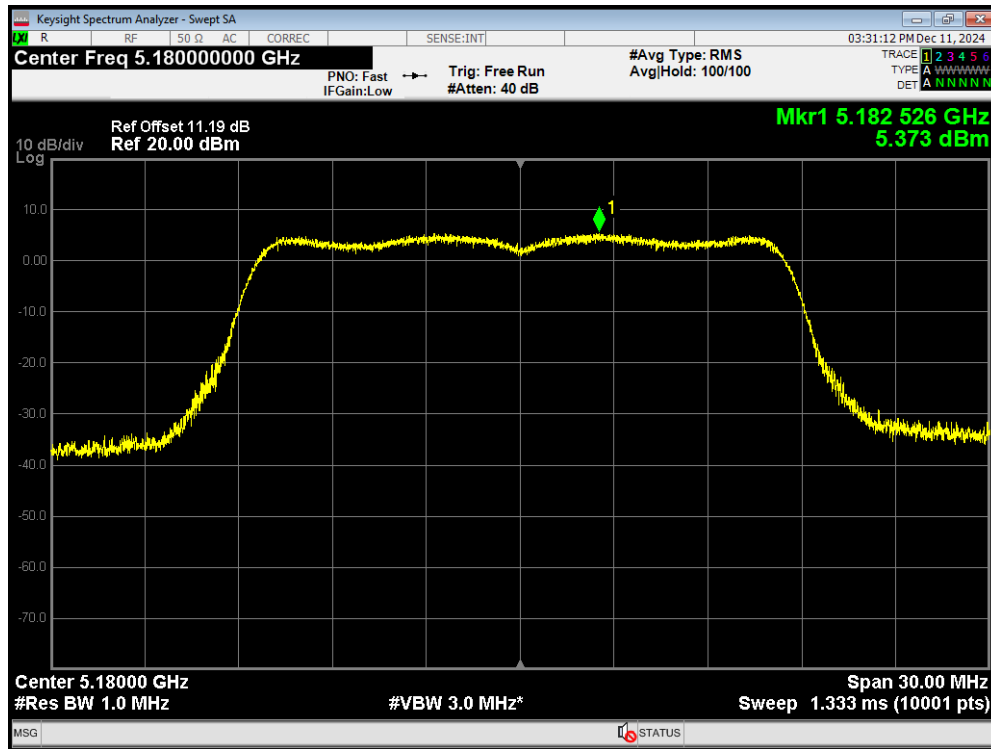
U-NII-3

Mode	Channel /Frequency (MHz)	RU Index	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11ax HE20 (242-Tones)	149/5745	61	0.03	0.51	30	PASS
	157/5785	61	-0.26	0.22	30	PASS
	165/5825	61	0.91	1.39	30	PASS

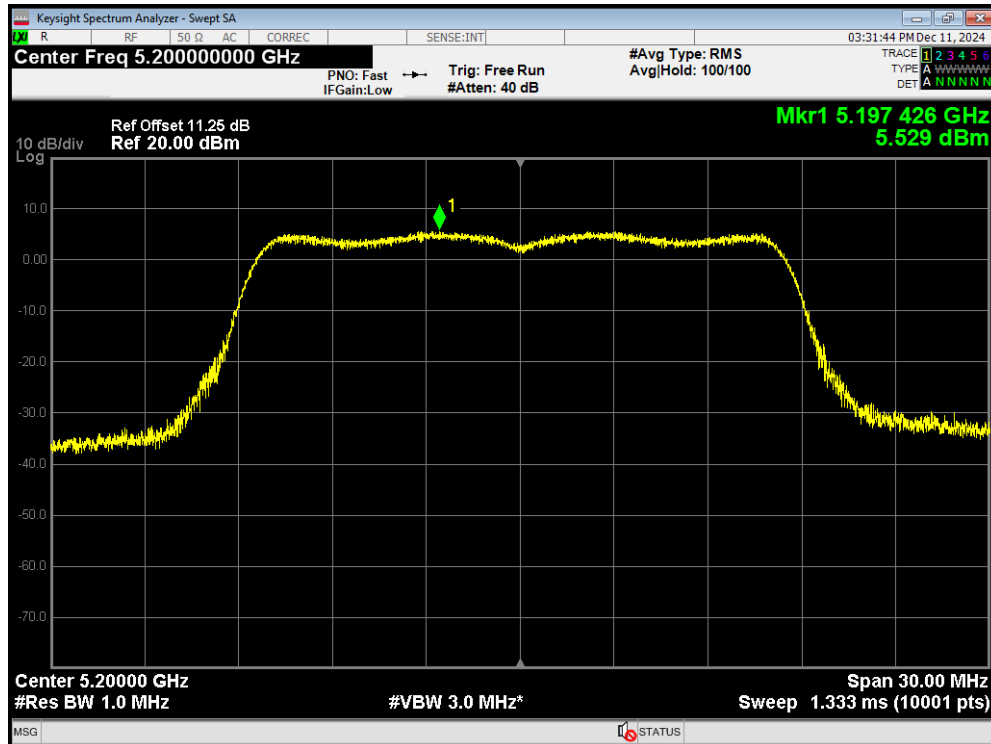
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)

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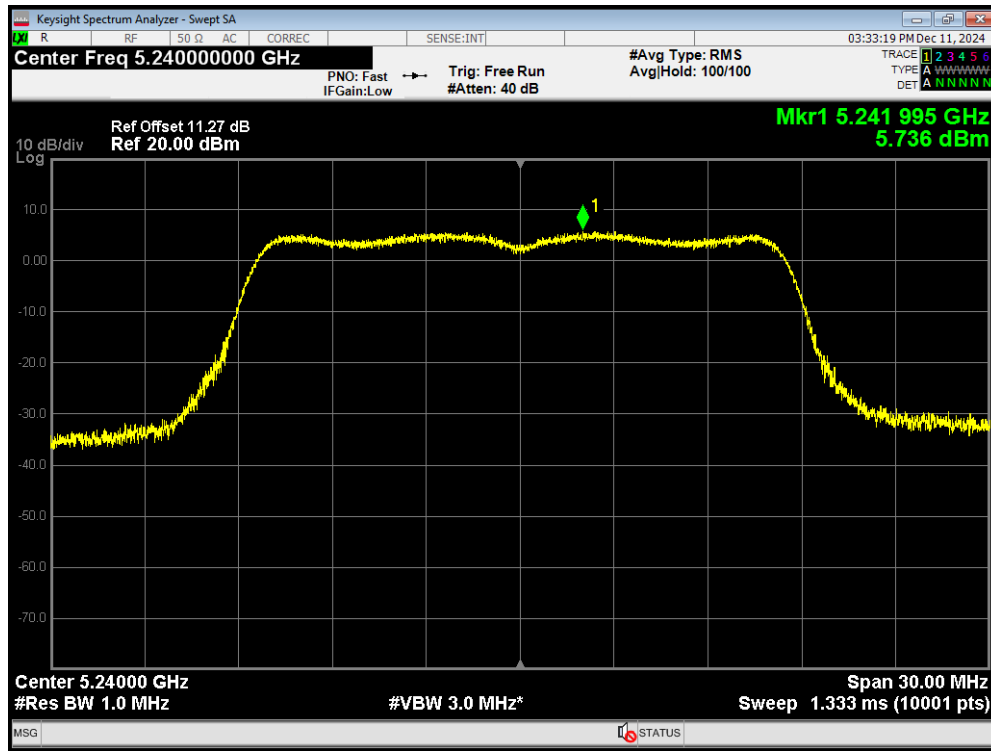
PSD 802.11a 5180MHz



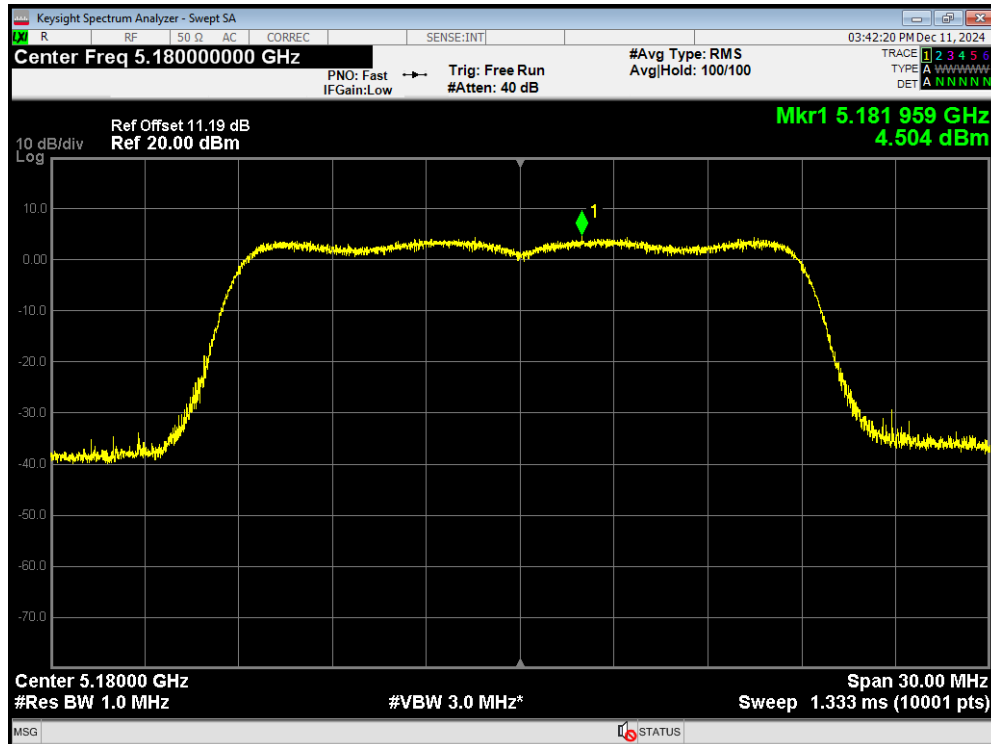
PSD 802.11a 5200MHz



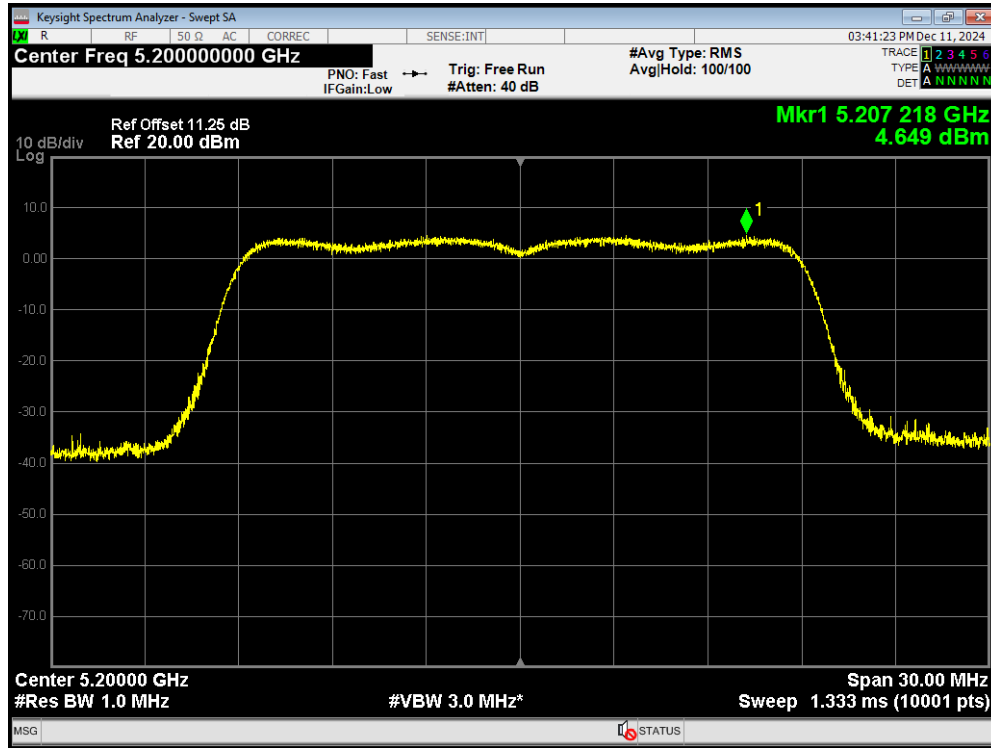
PSD 802.11a 5240MHz



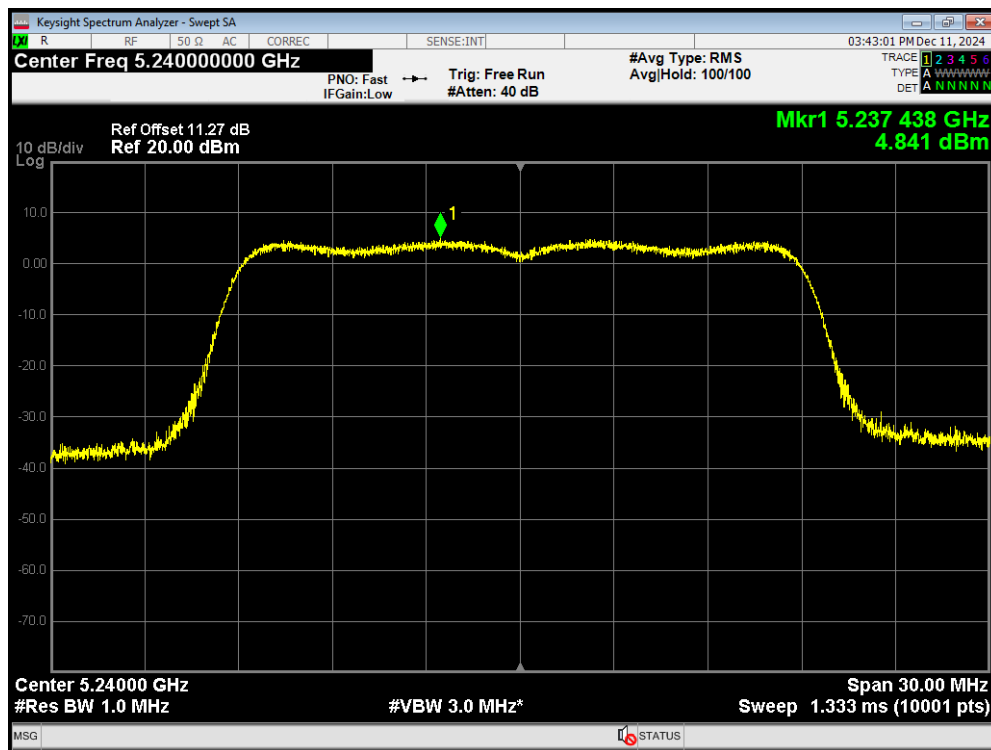
PSD 802.11ac(VHT20) 5180MHz



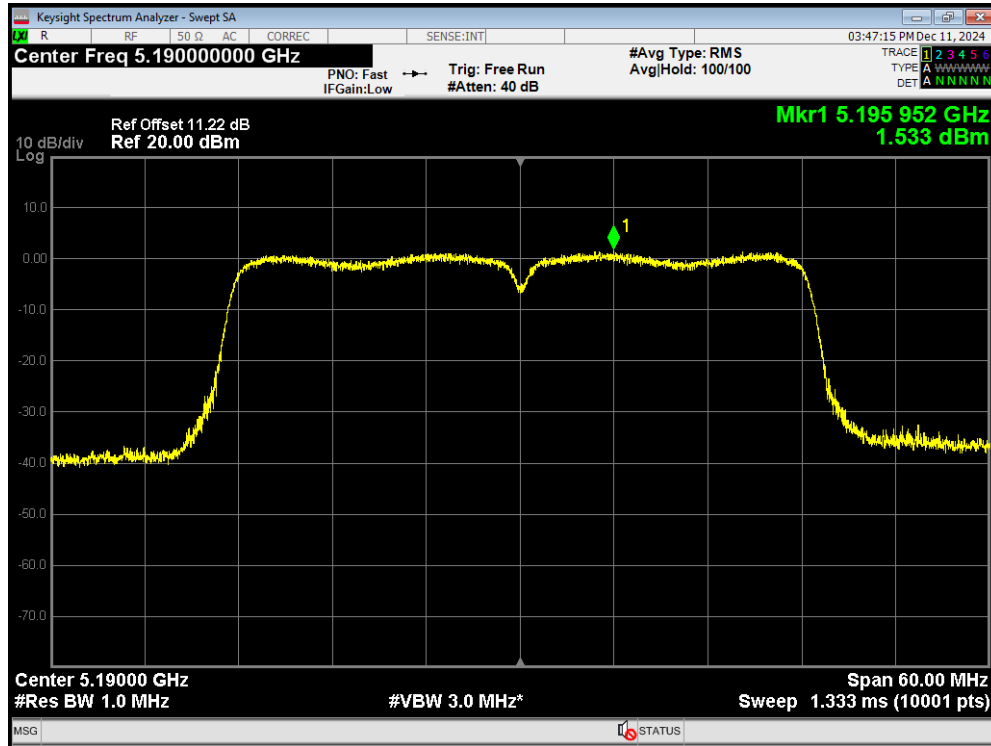
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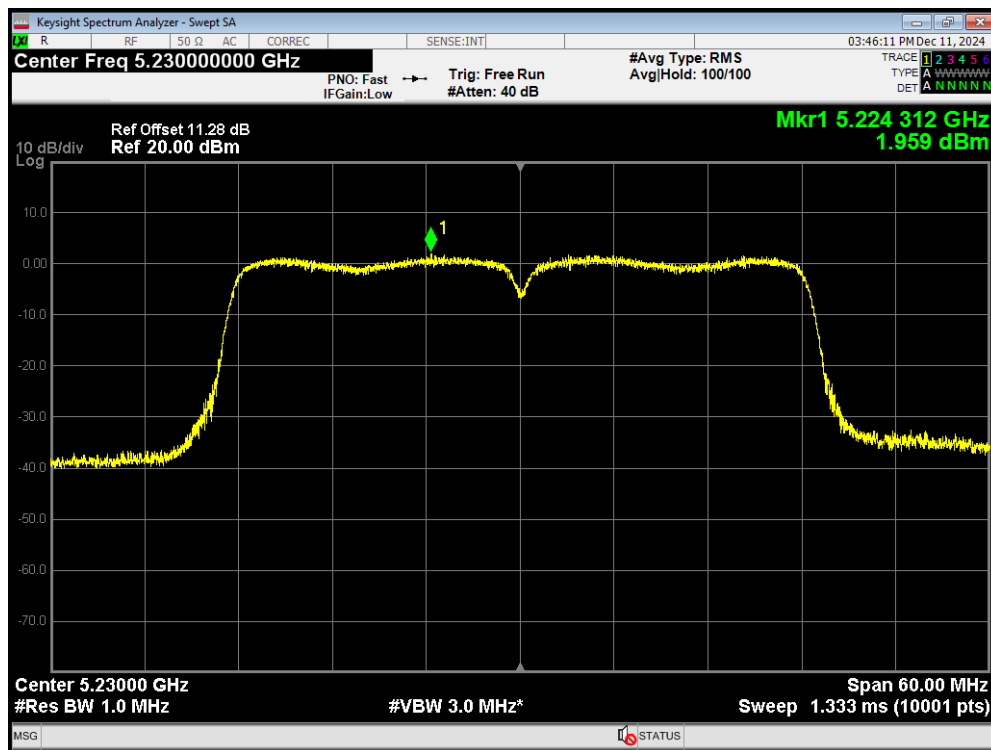
PSD 802.11ac(VHT20) 5240MHz



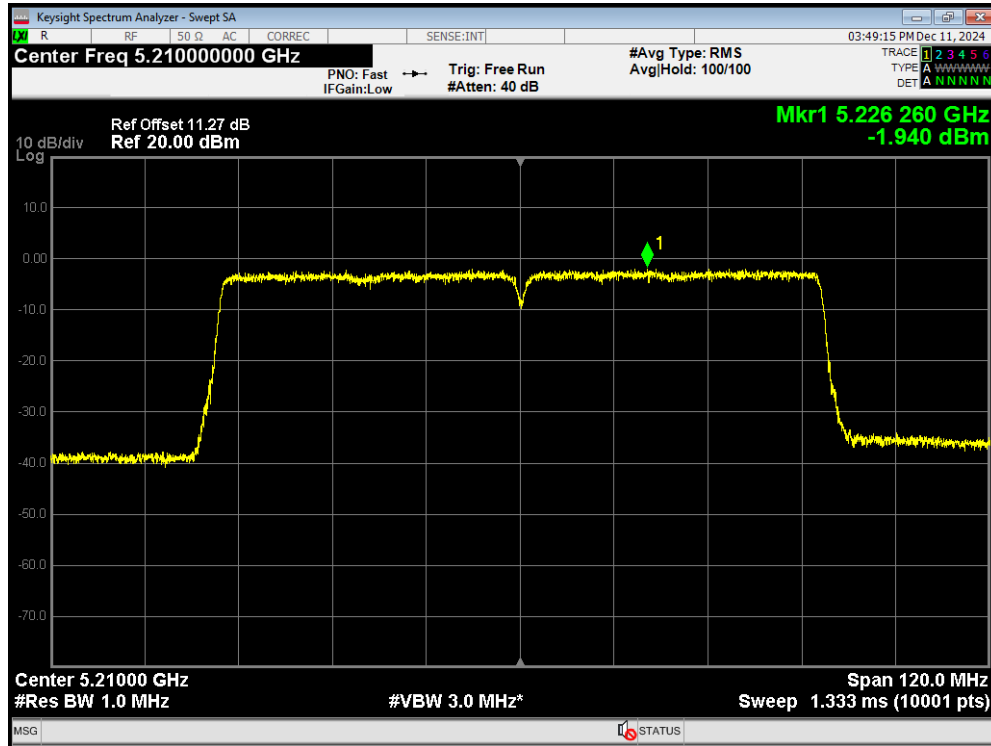
PSD 802.11ac(VHT40) 5190MHz



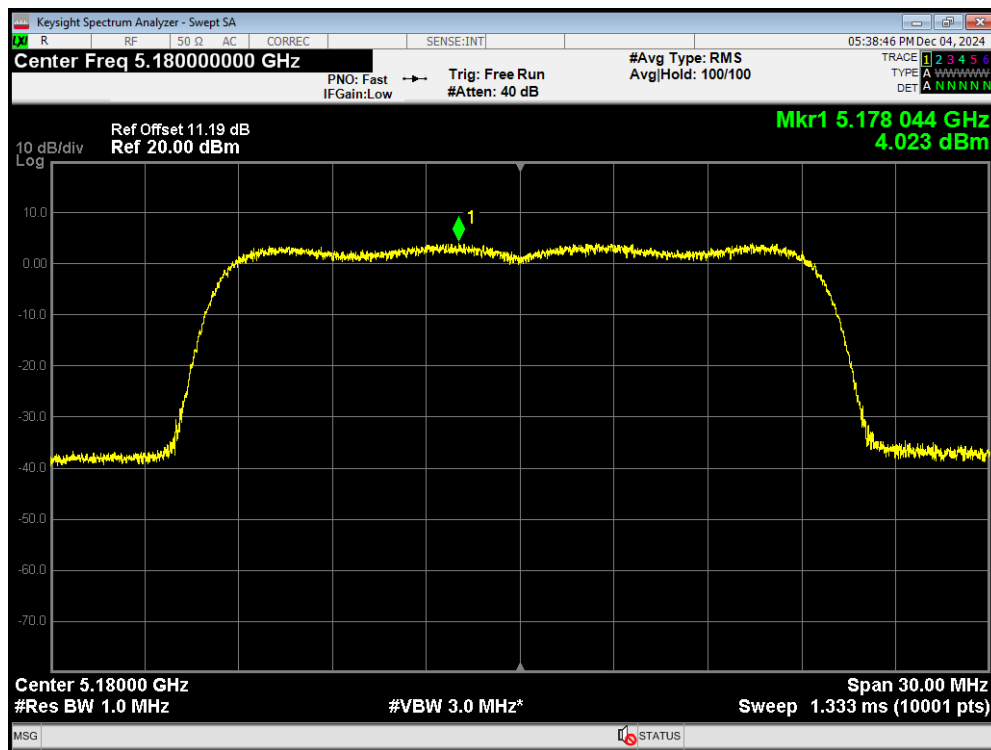
PSD 802.11ac(VHT40) 5230MHz



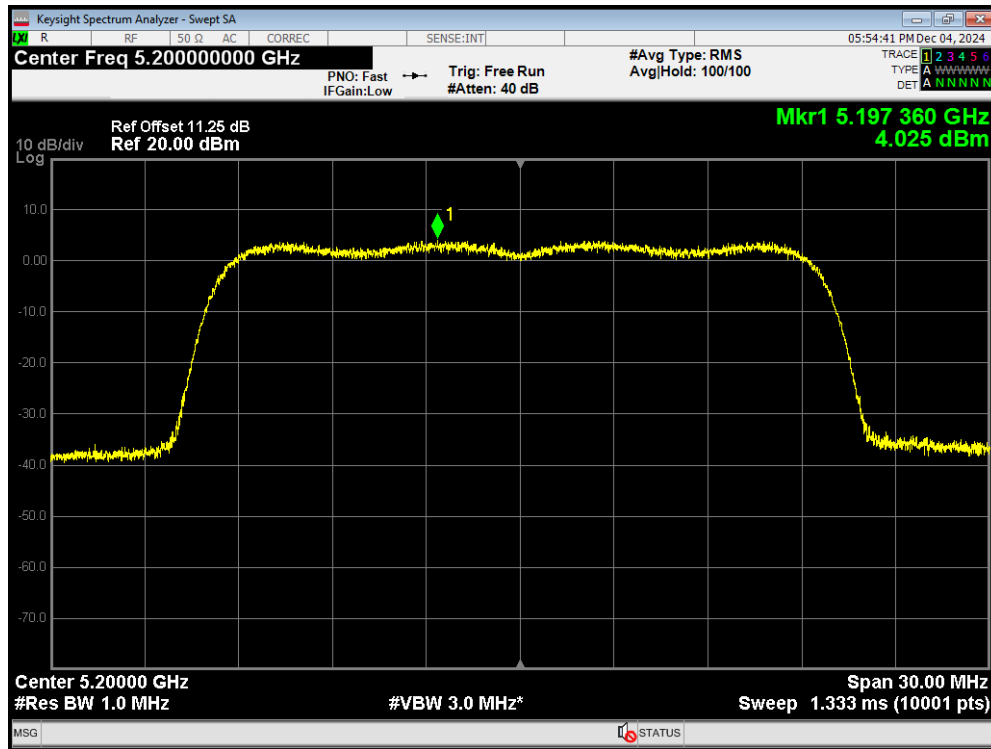
PSD 802.11ac(VHT80) 5210MHz



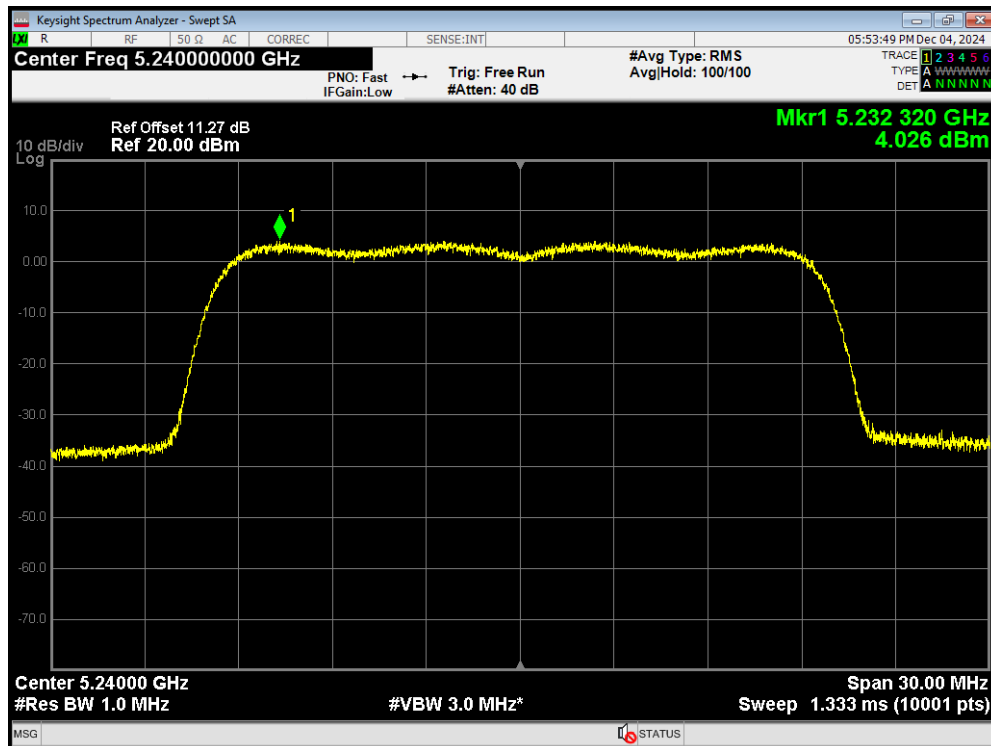
PSD 802.11ax(HE20) 5180MHz



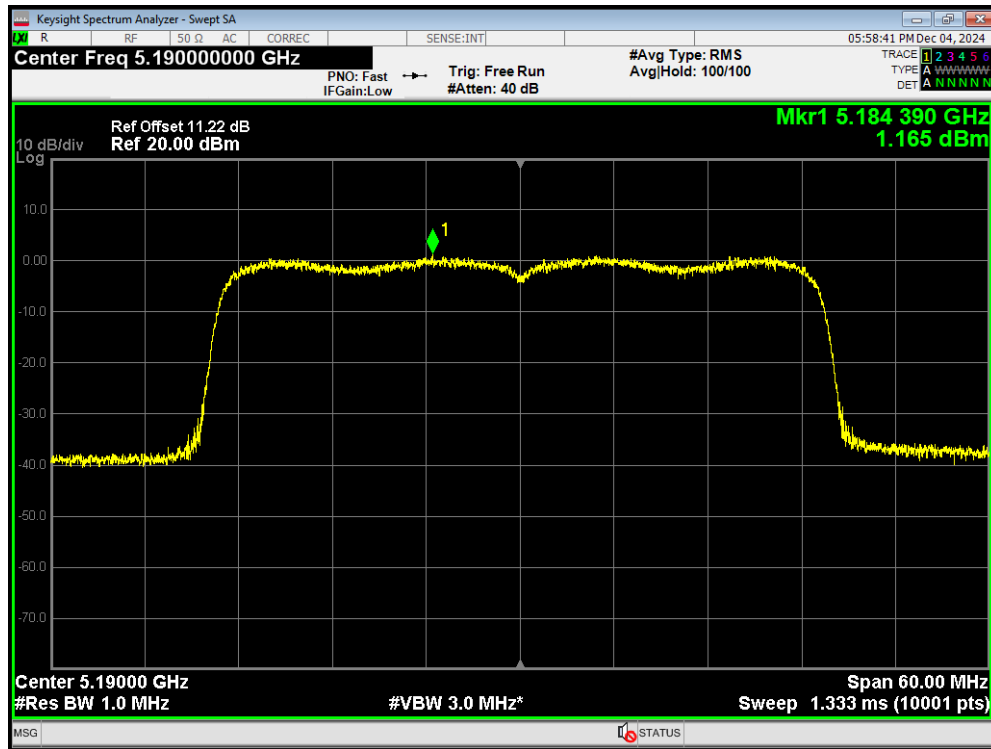
PSD 802.11ax(HE20) 5200MHz



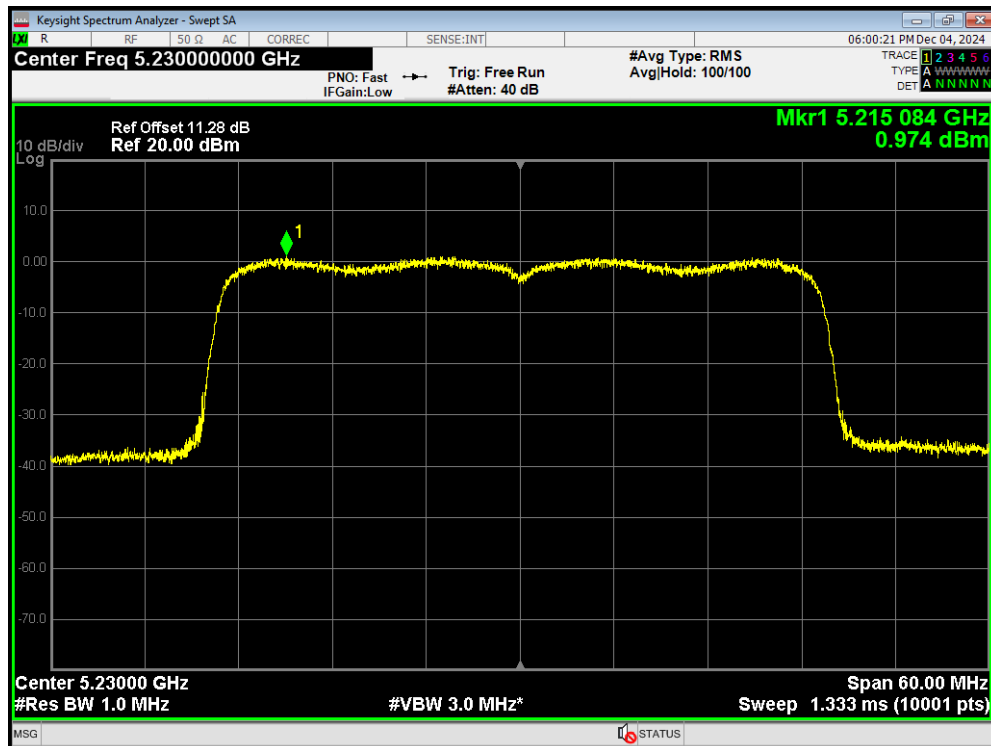
PSD 802.11ax(HE20) 5240MHz



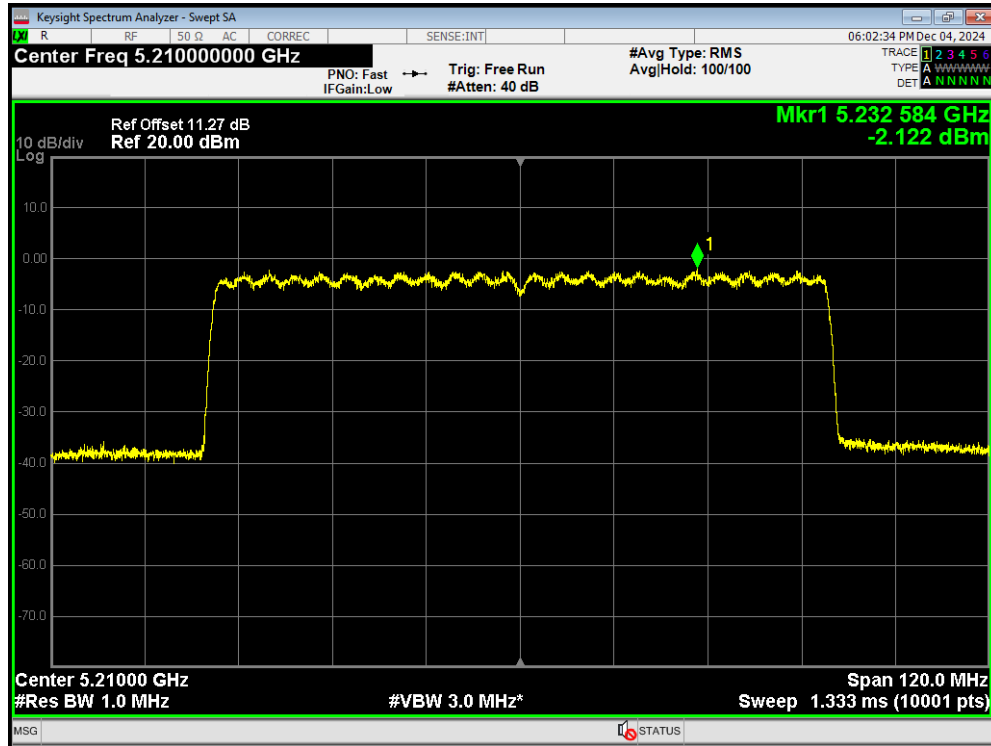
PSD 802.11ax(HE40) 5190MHz



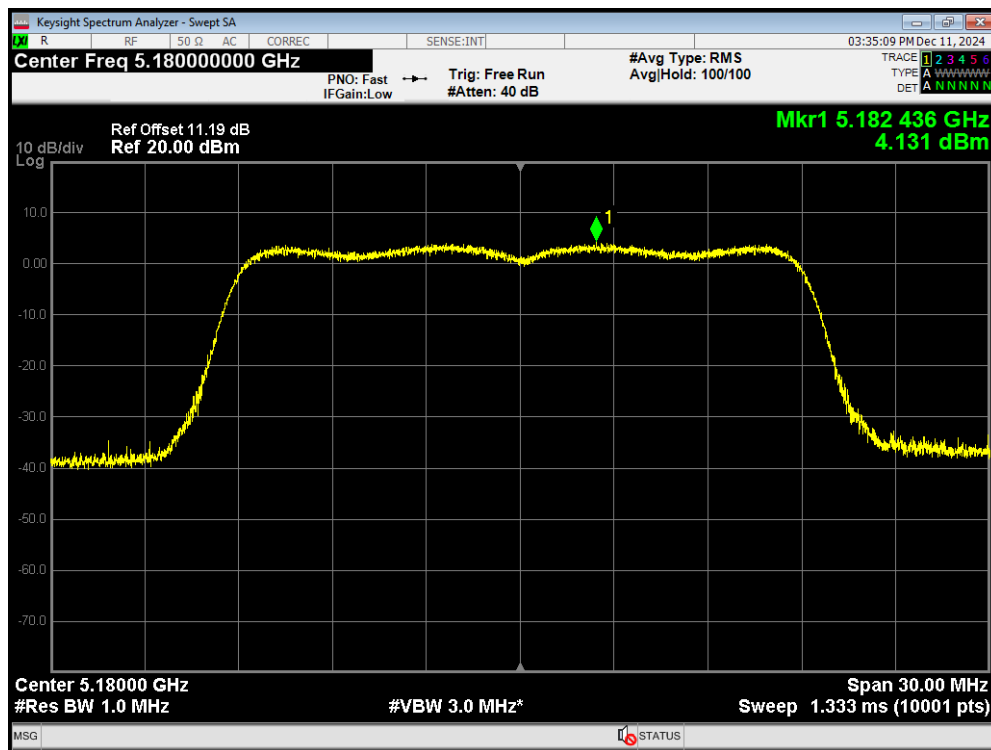
PSD 802.11ax(HE40) 5230MHz



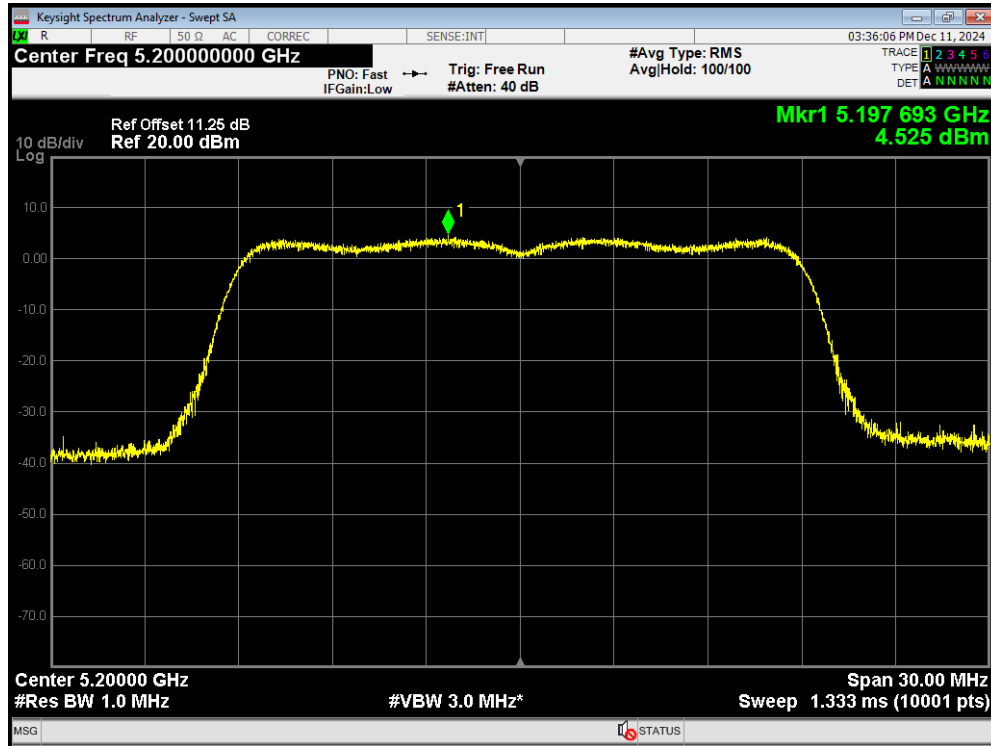
PSD 802.11ax(HE80) 5210MHz



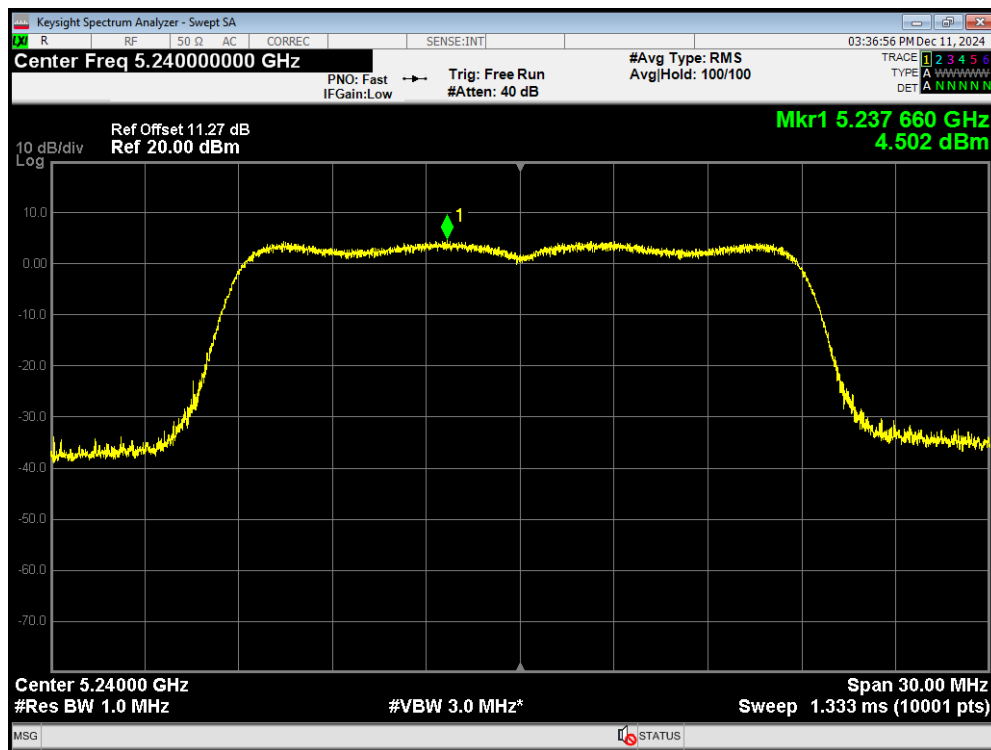
PSD 802.11n(HT20) 5180MHz



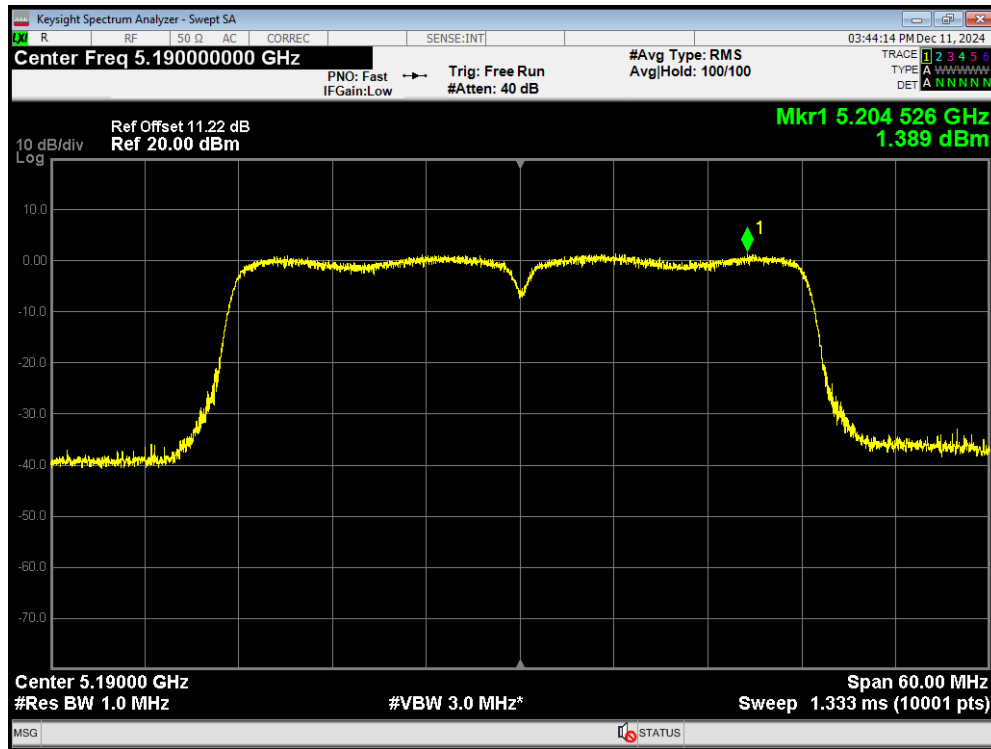
PSD 802.11n(HT20) 5200MHz



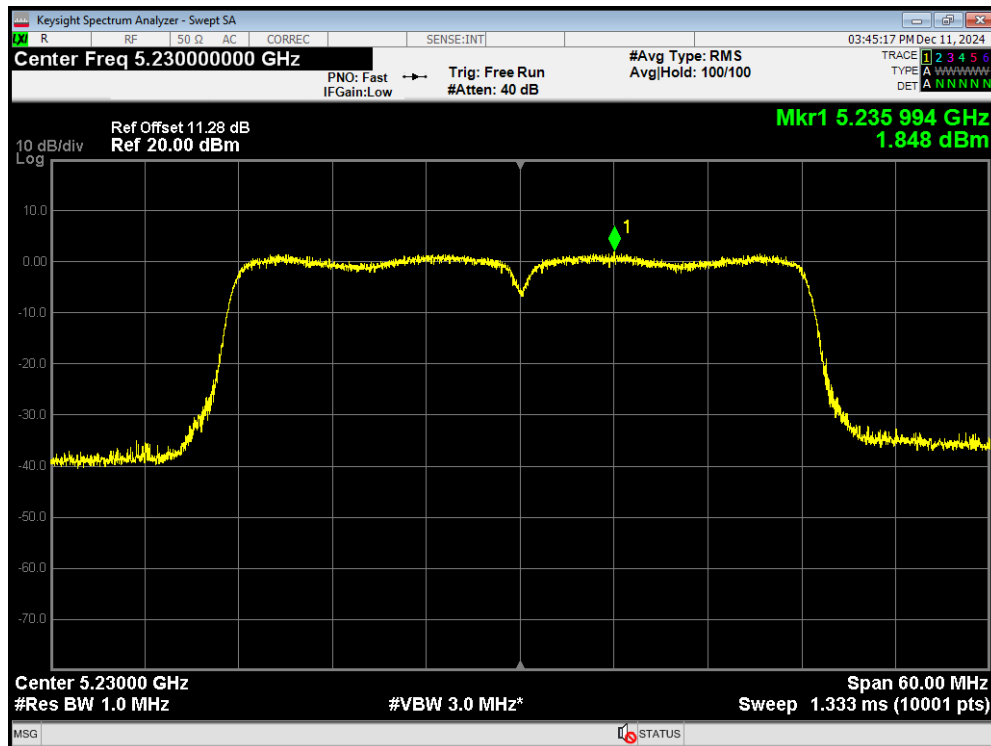
PSD 802.11n(HT20) 5240MHz



PSD 802.11n(HT40) 5190MHz

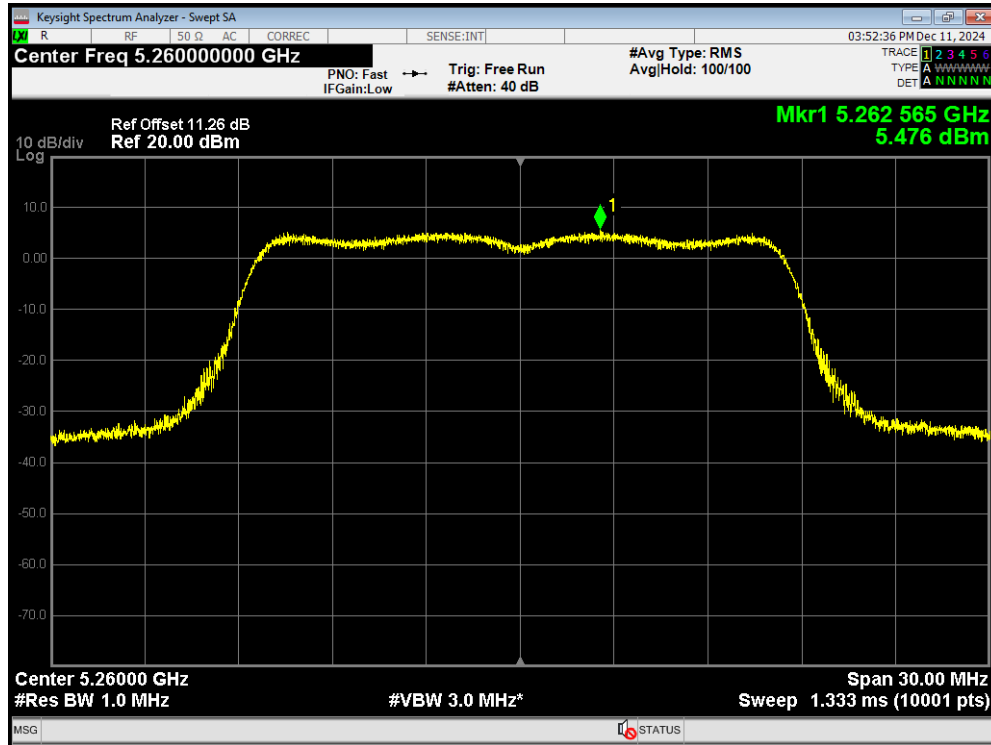


PSD 802.11n(HT40) 5230MHz

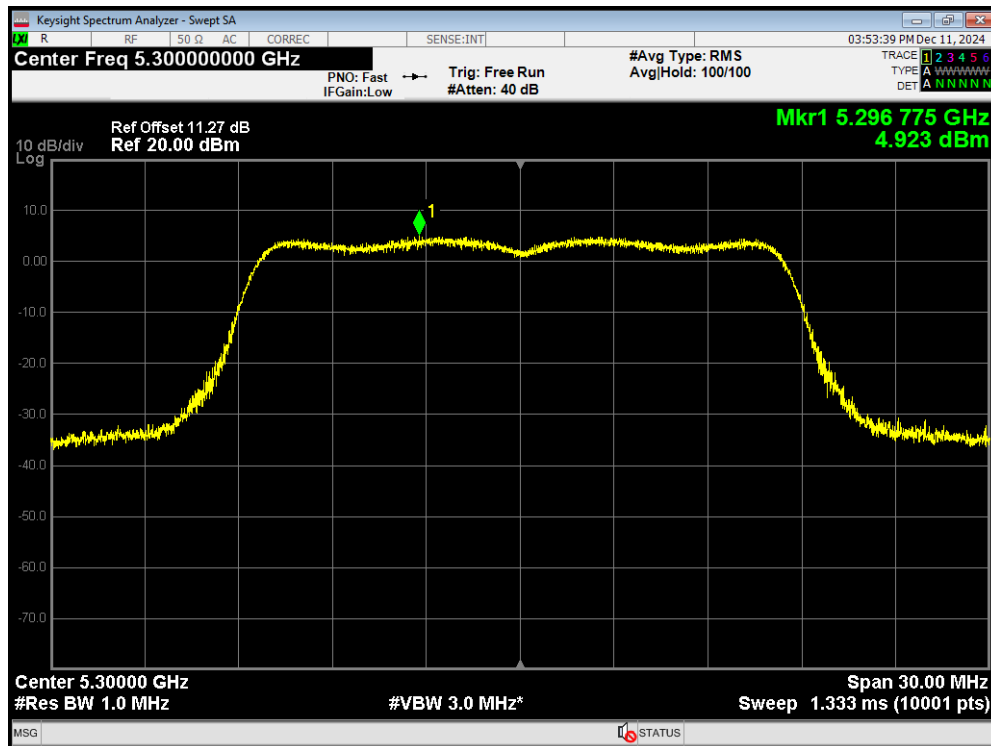


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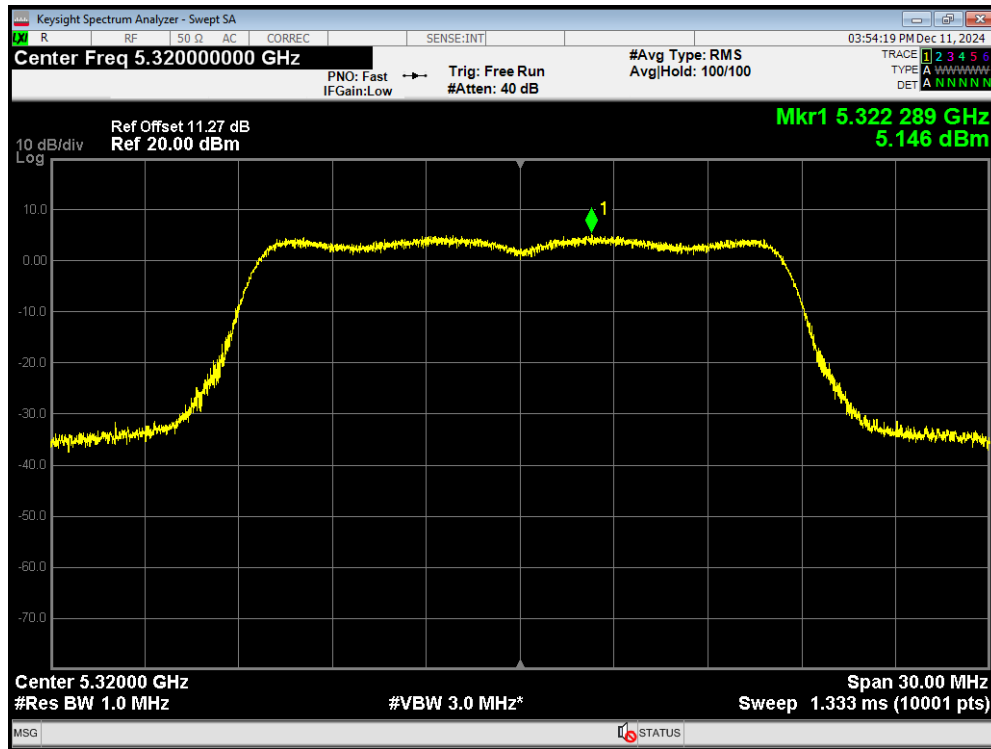
PSD 802.11a 5260MHz



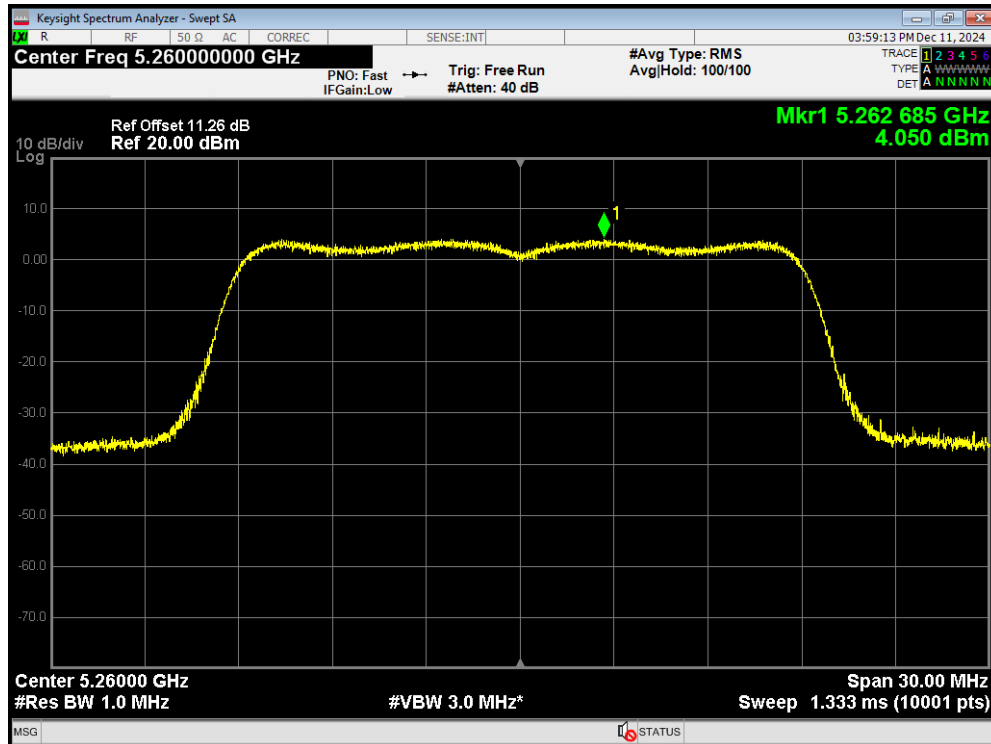
PSD 802.11a 5300MHz



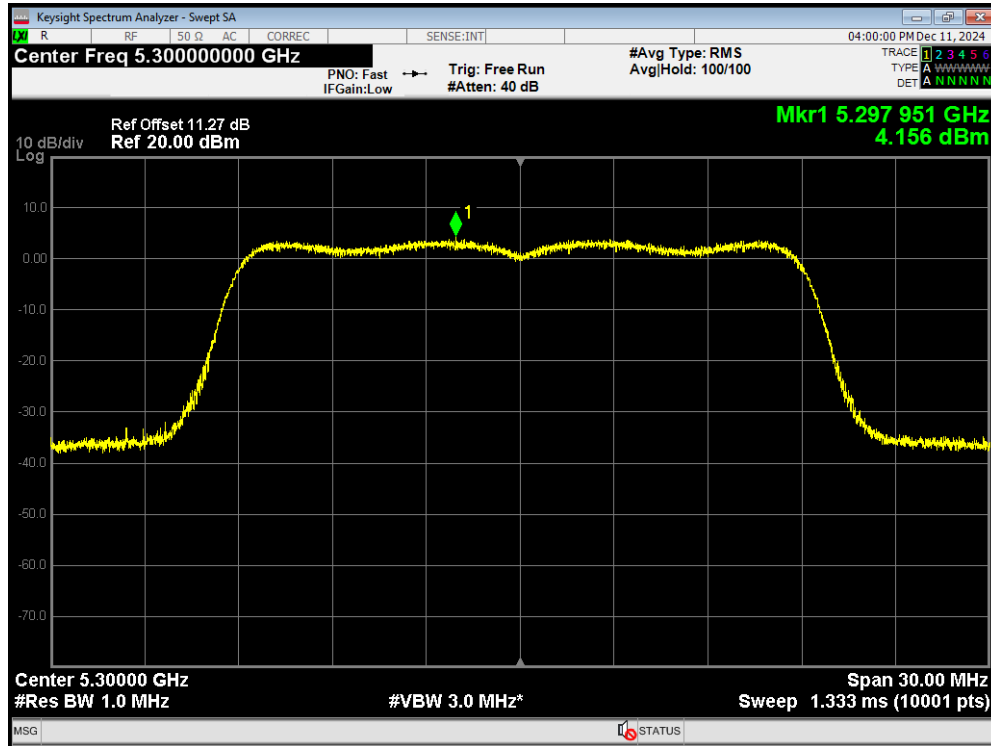
PSD 802.11a 5320MHz



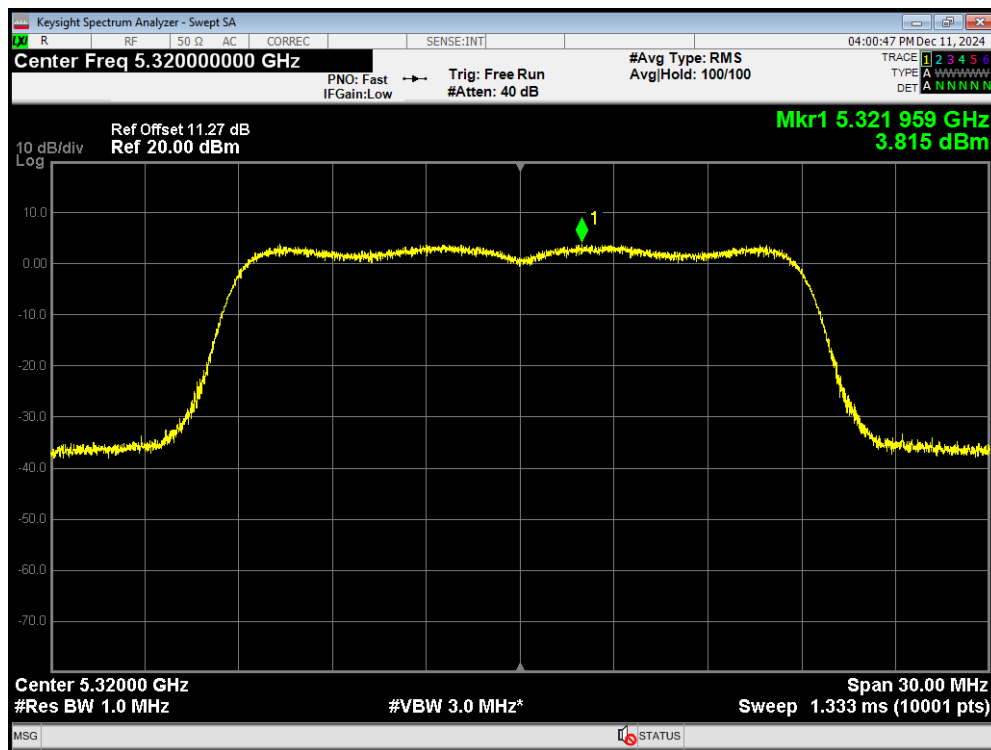
PSD 802.11ac(VHT20) 5260MHz



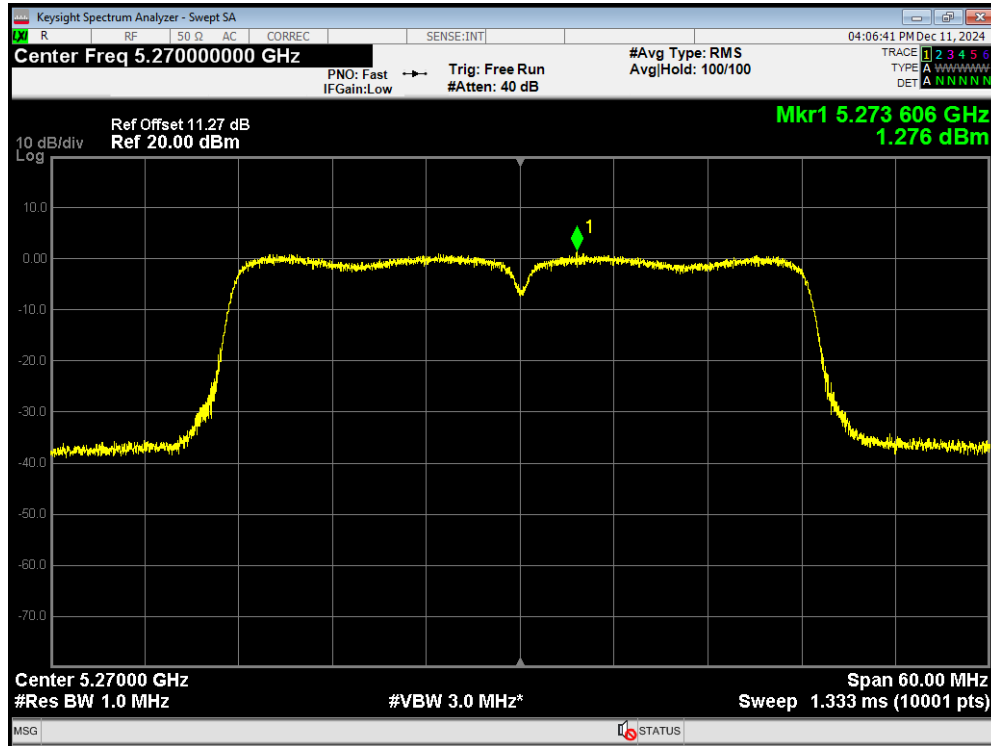
PSD 802.11ac(VHT20) 5300MHz



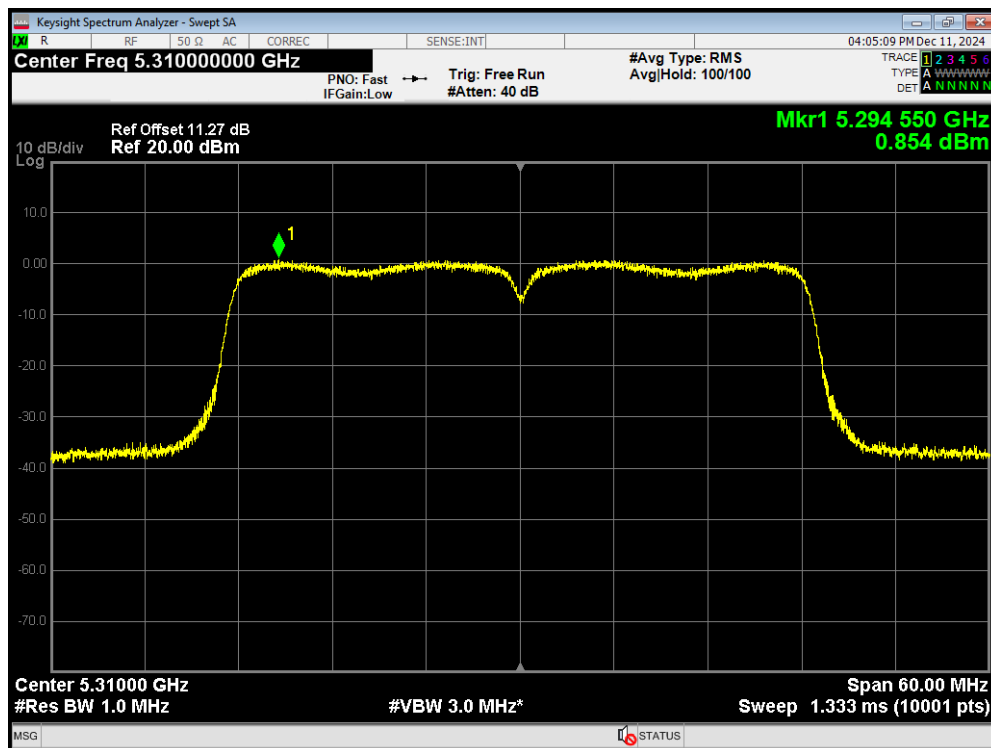
PSD 802.11ac(VHT20) 5320MHz



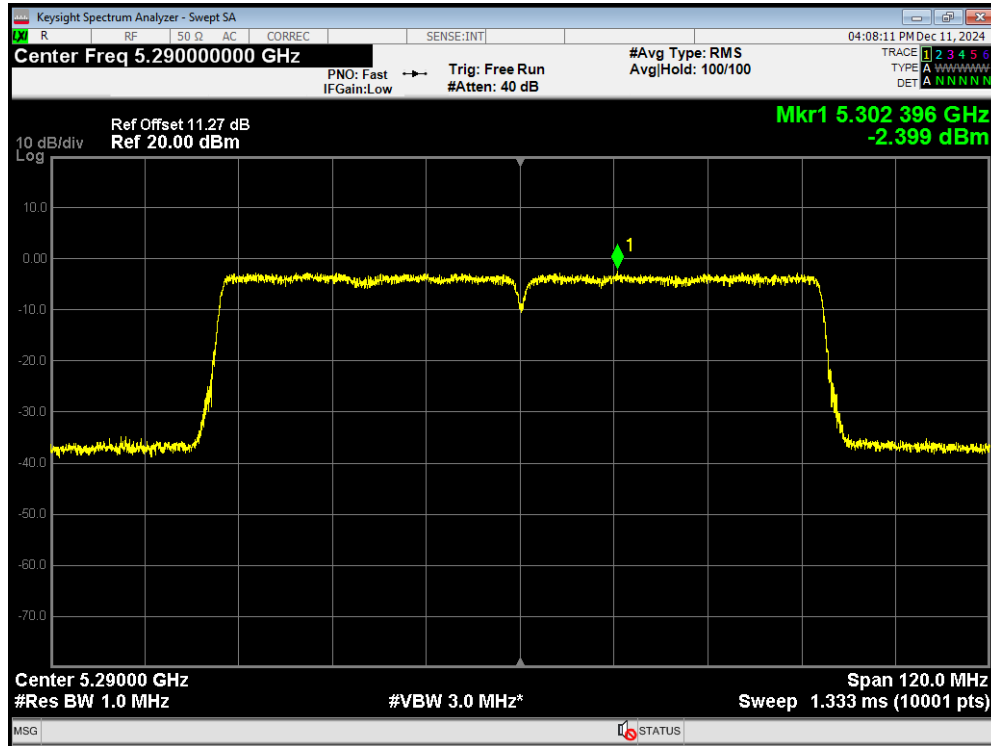
PSD 802.11ac(VHT40) 5270MHz



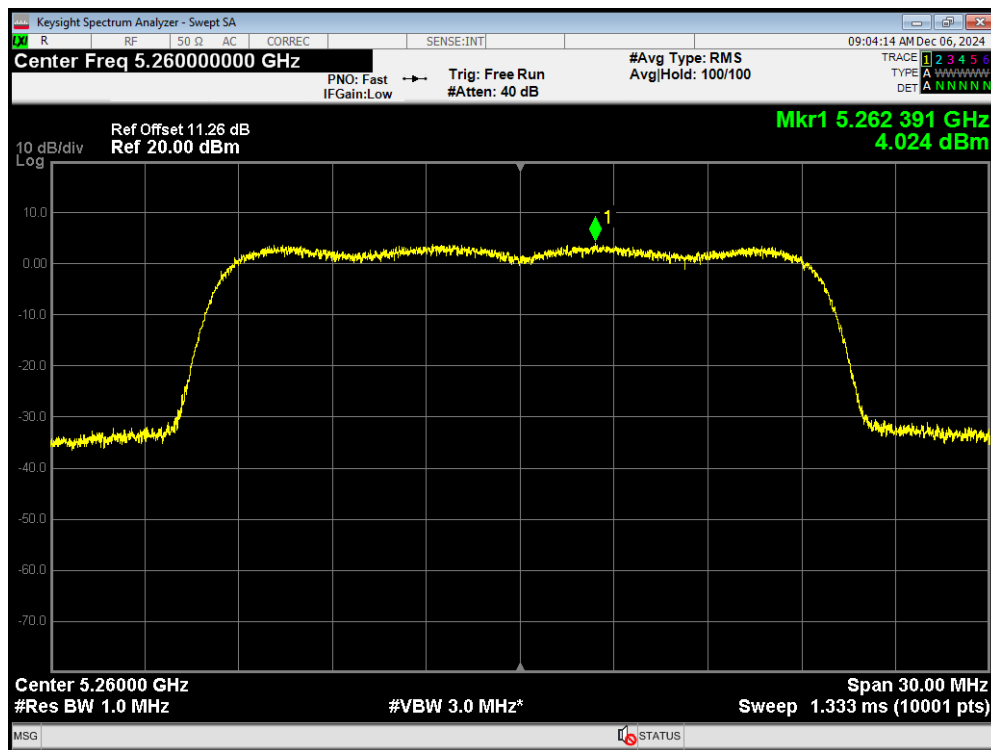
PSD 802.11ac(VHT40) 5310MHz



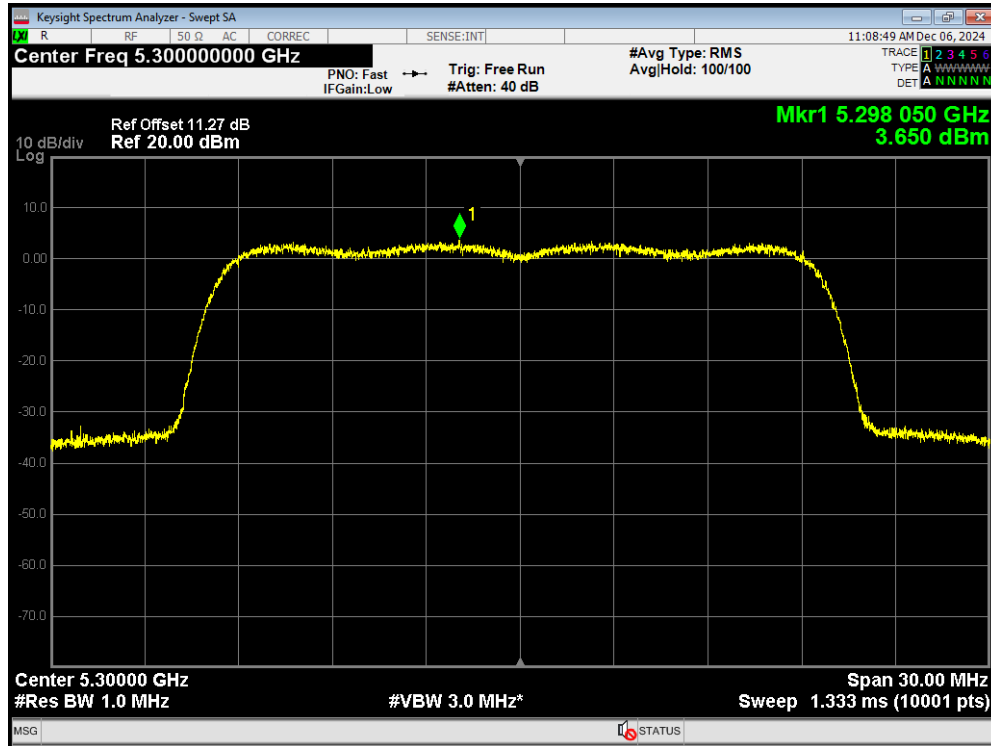
PSD 802.11ac(VHT80) 5290MHz



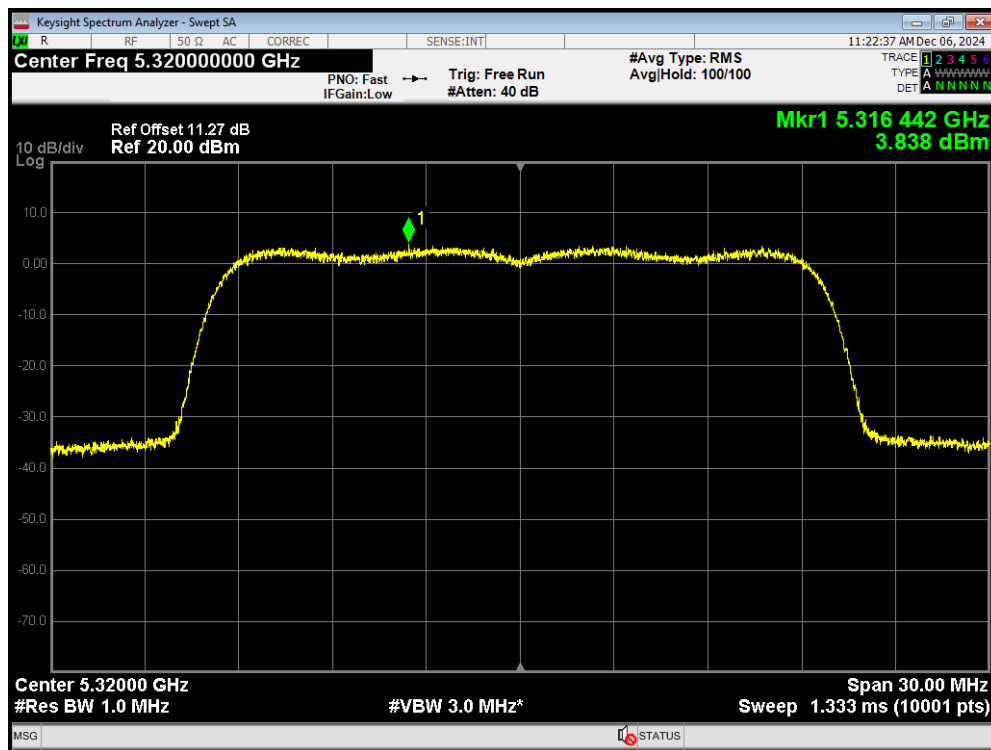
PSD 802.11ax(HE20) 5260MHz



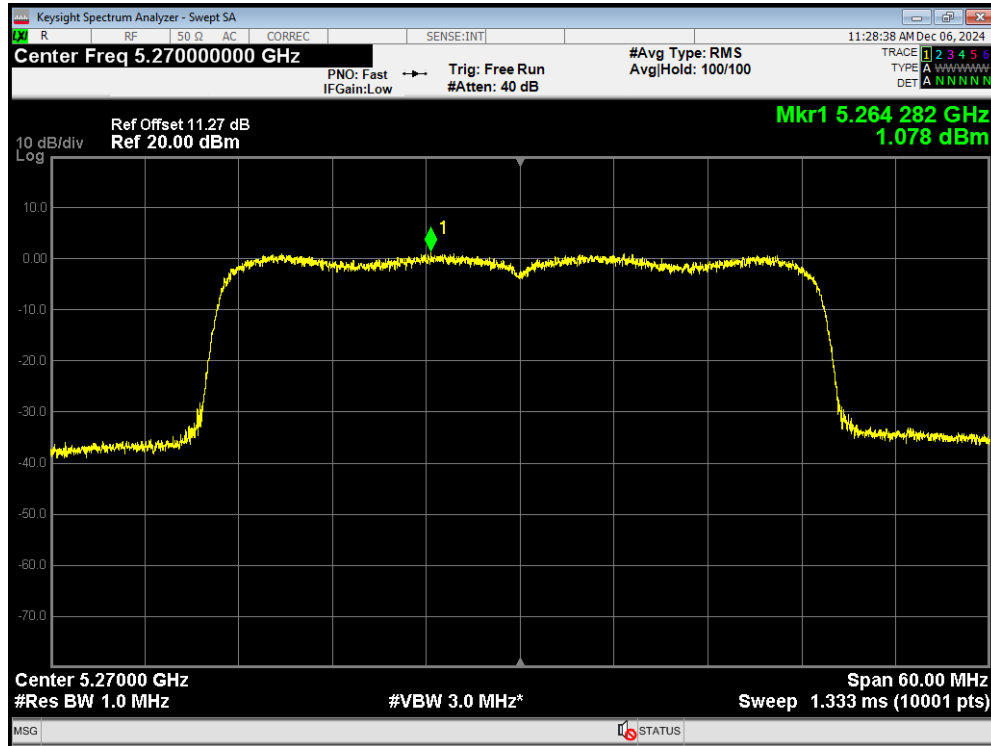
PSD 802.11ax(HE20) 5300MHz



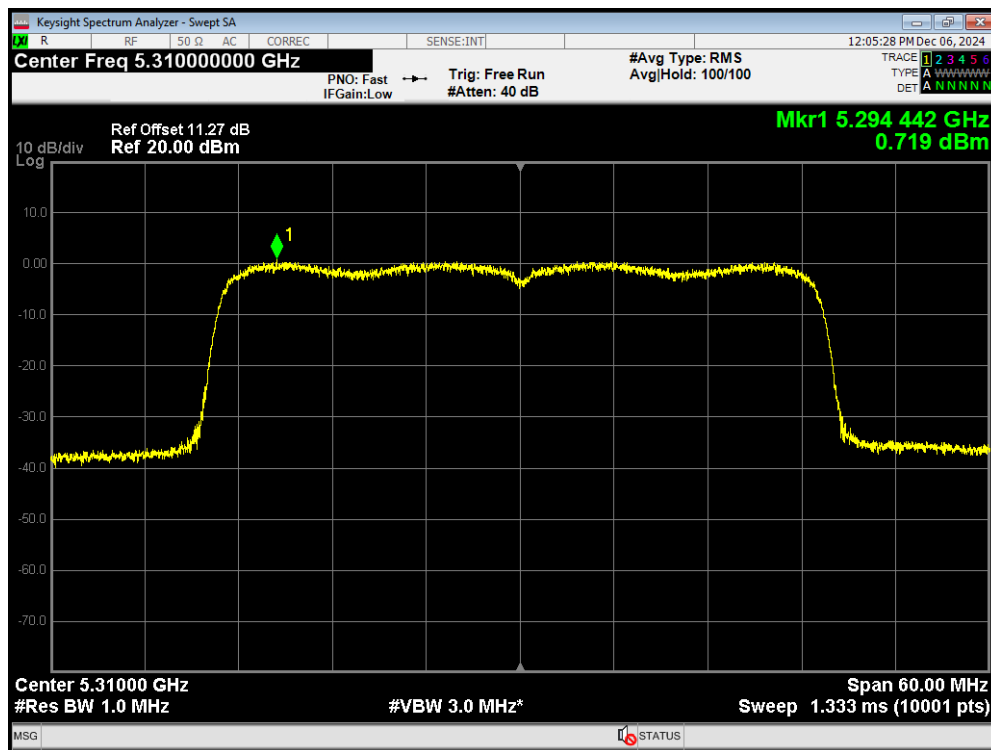
PSD 802.11ax(HE20) 5320MHz



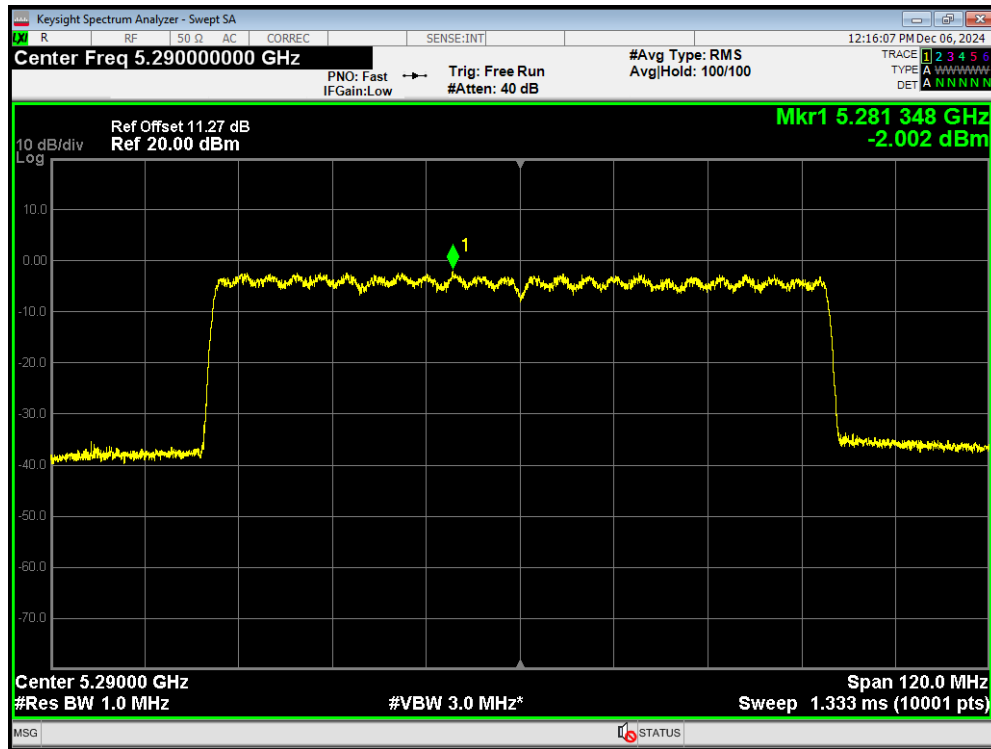
PSD 802.11ax(HE40) 5270MHz



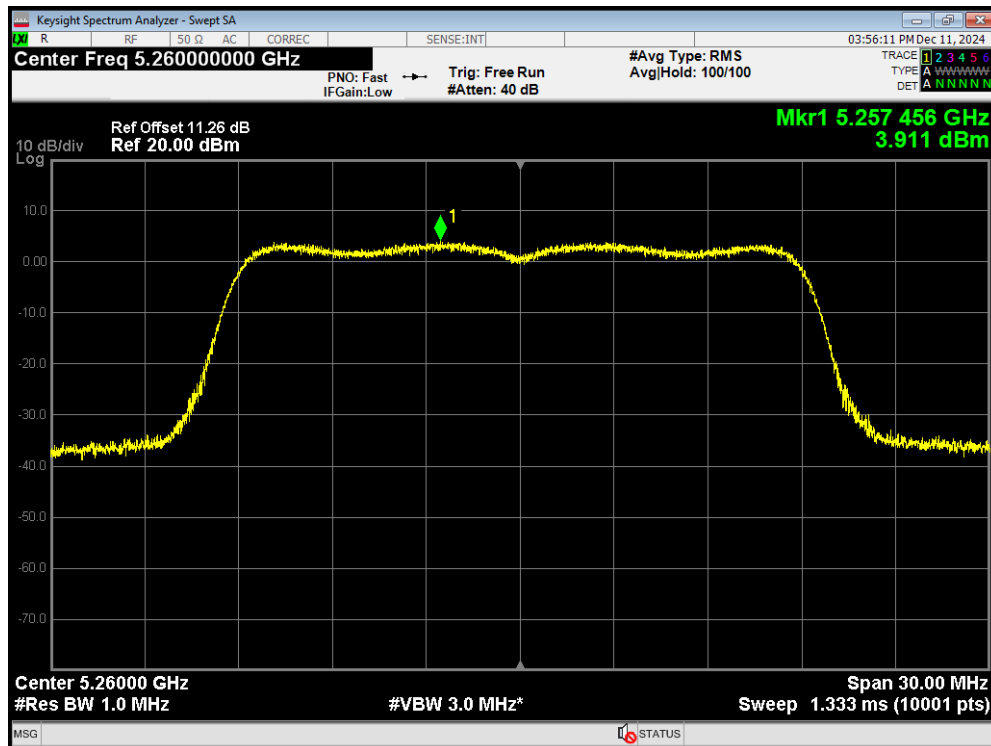
PSD 802.11ax(HE40) 5310MHz



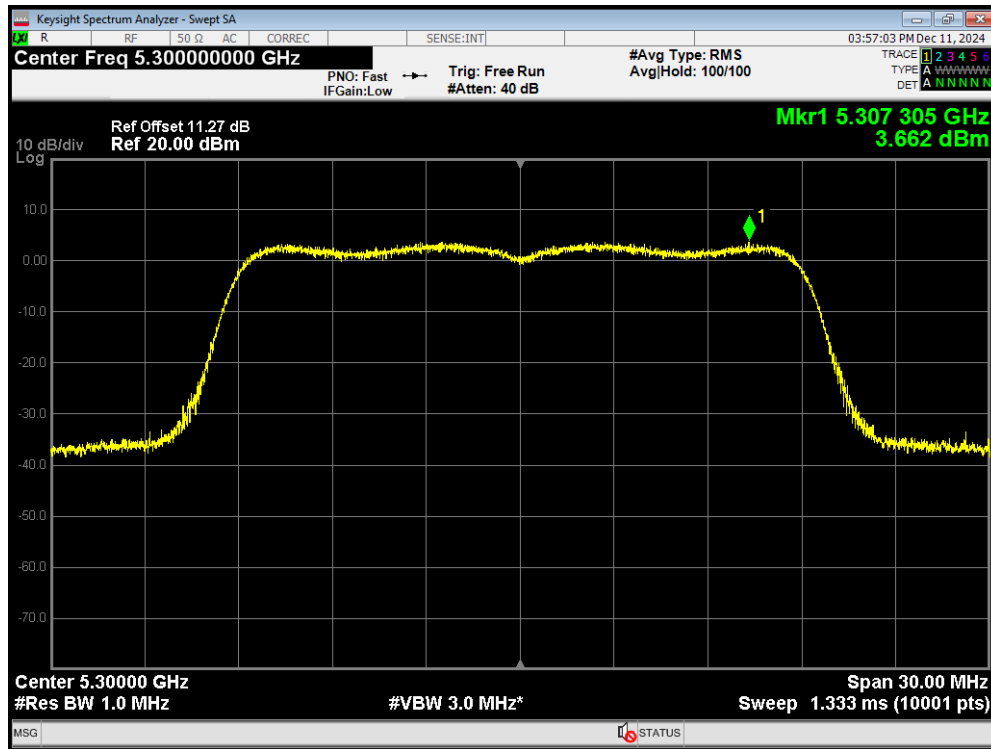
PSD 802.11ax(HE80) 5290MHz



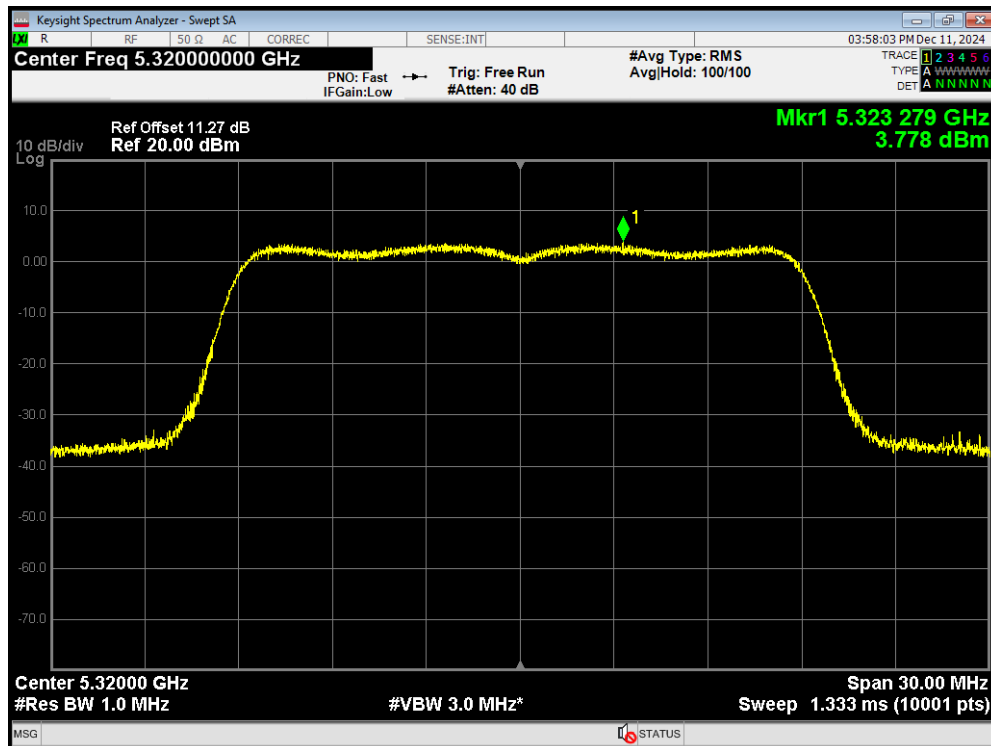
PSD 802.11n(HT20) 5260MHz



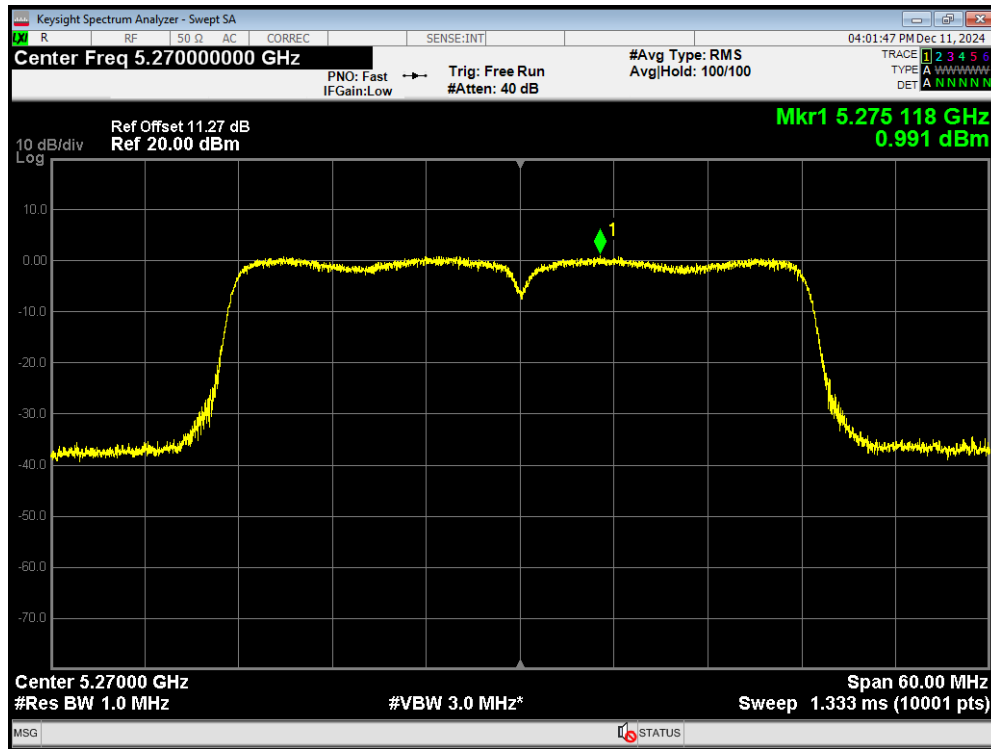
PSD 802.11n(HT20) 5300MHz



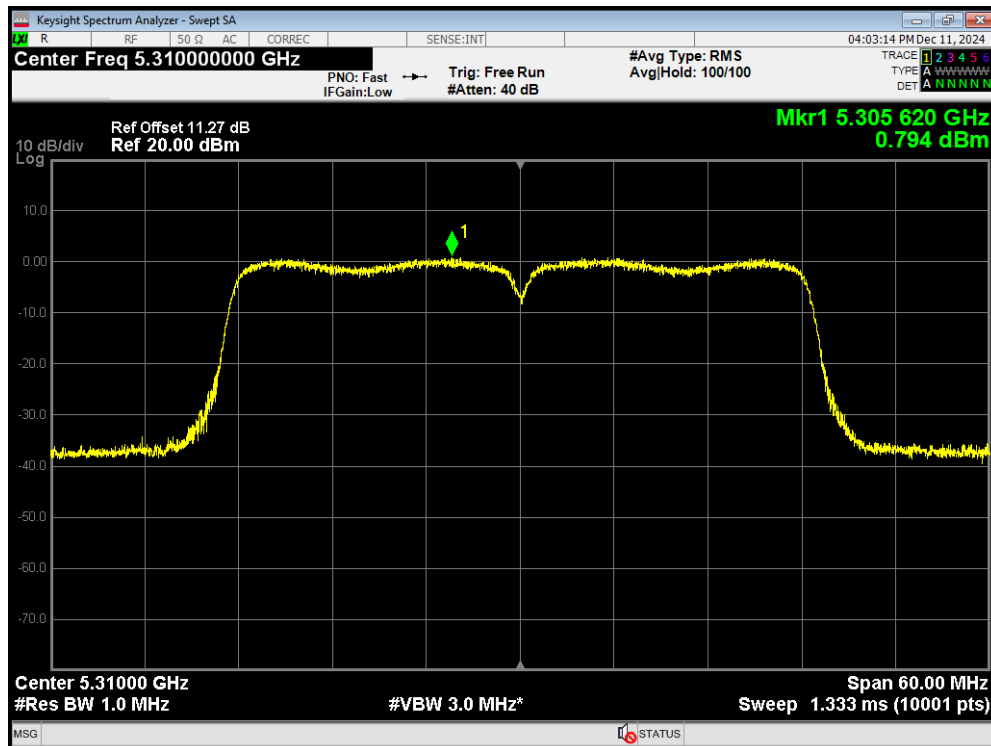
PSD 802.11n(HT20) 5320MHz



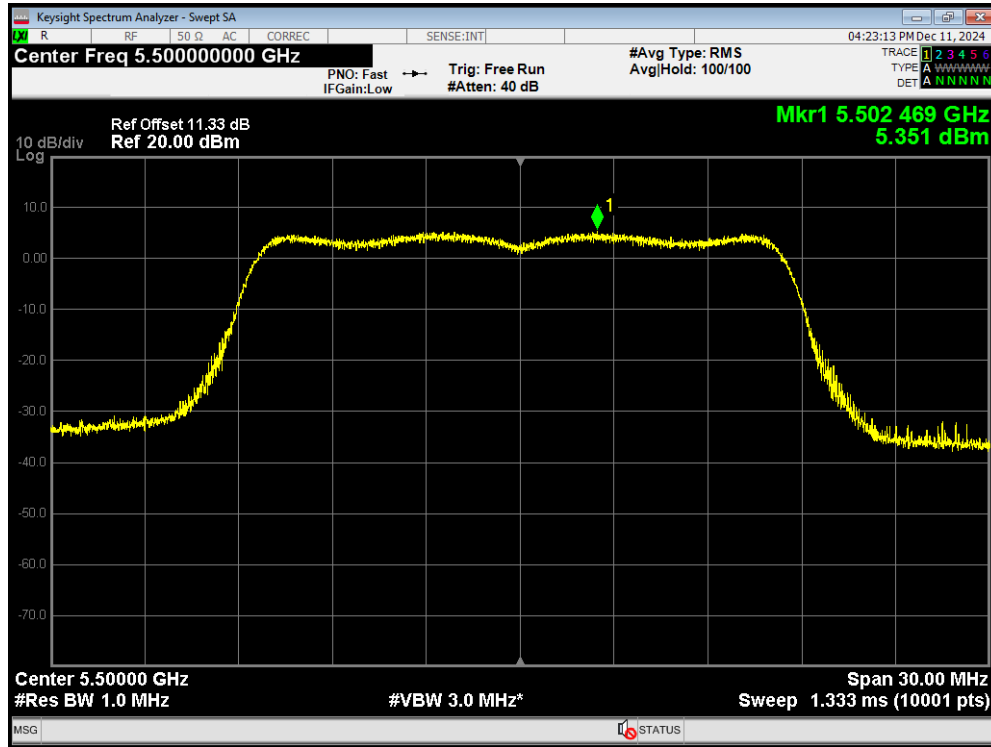
PSD 802.11n(HT40) 5270MHz



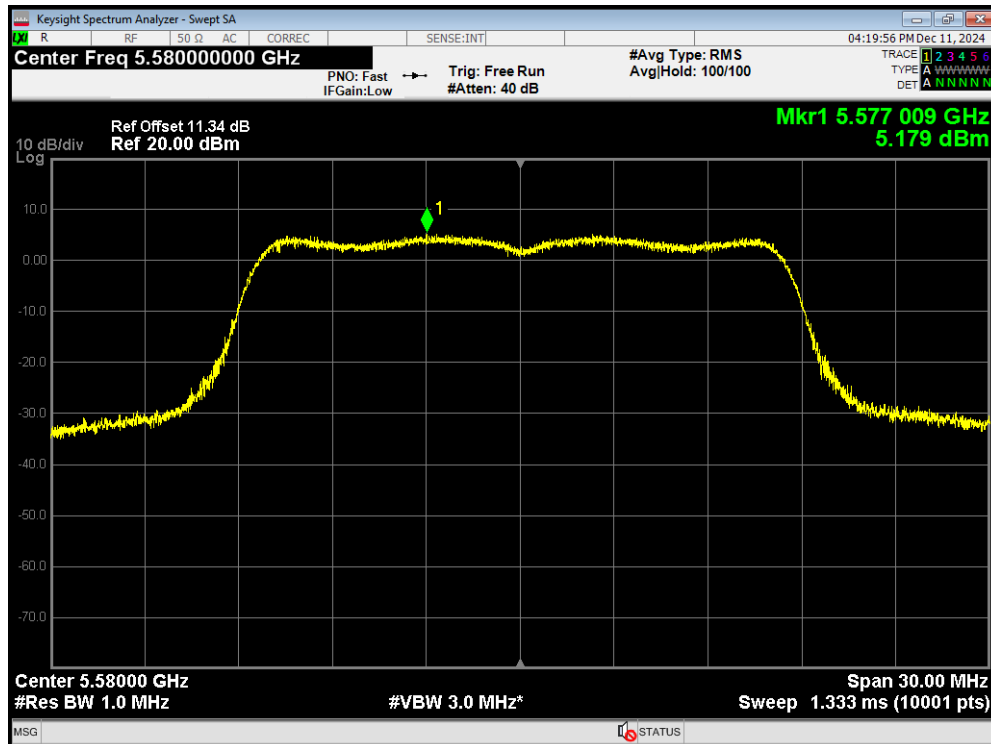
PSD 802.11n(HT40) 5310MHz



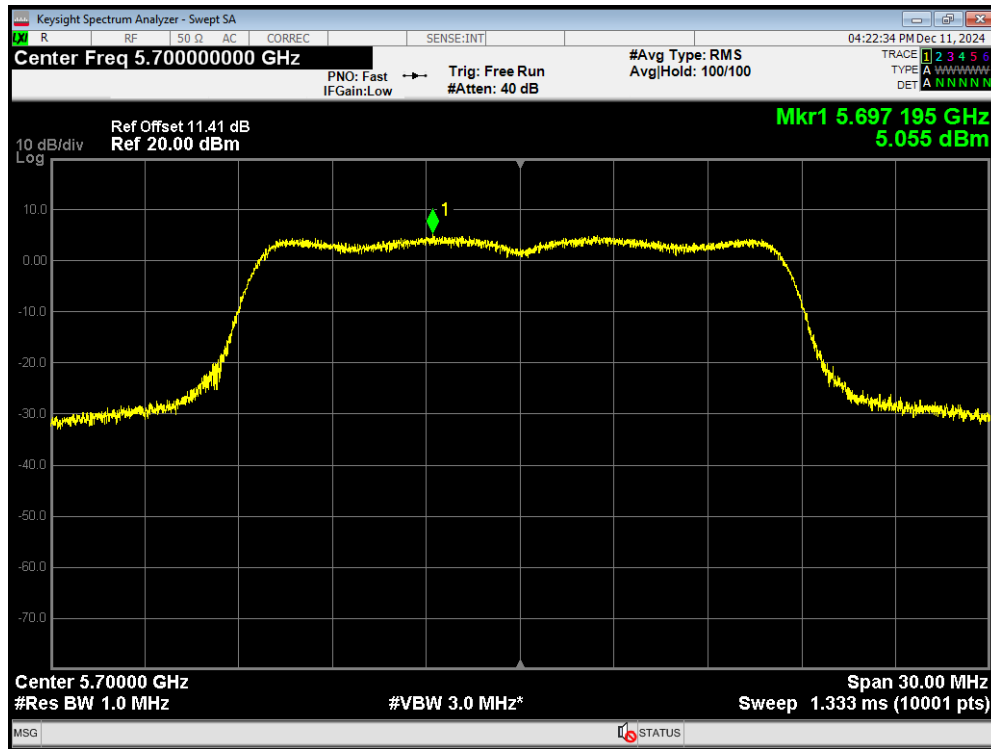
PSD 802.11a 5500MHz



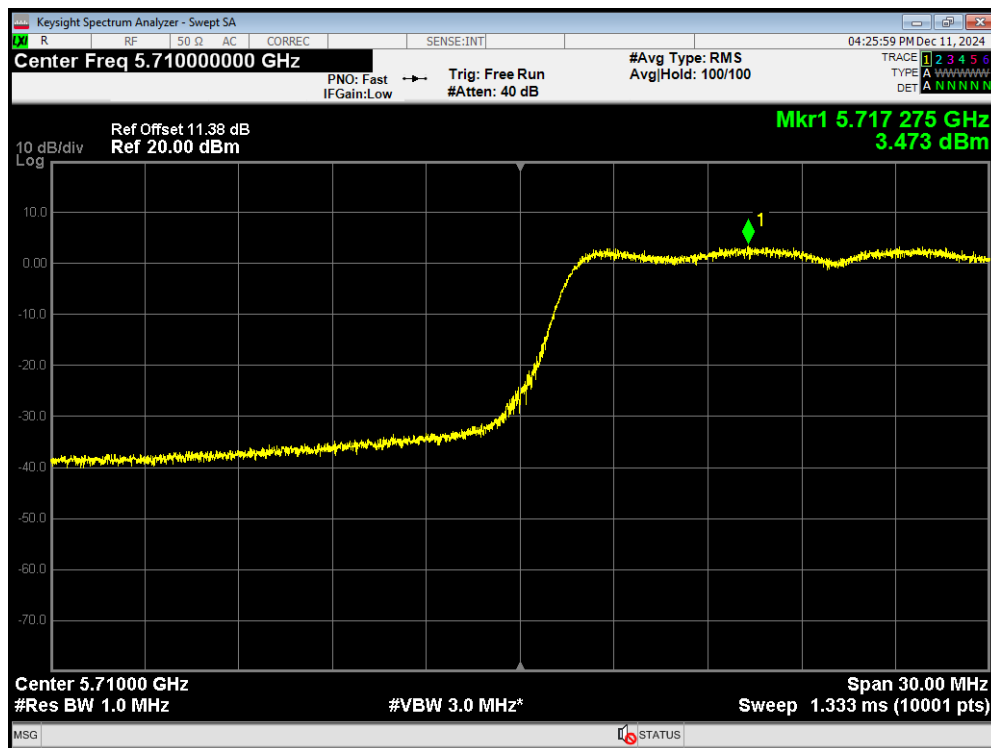
PSD 802.11a MHz



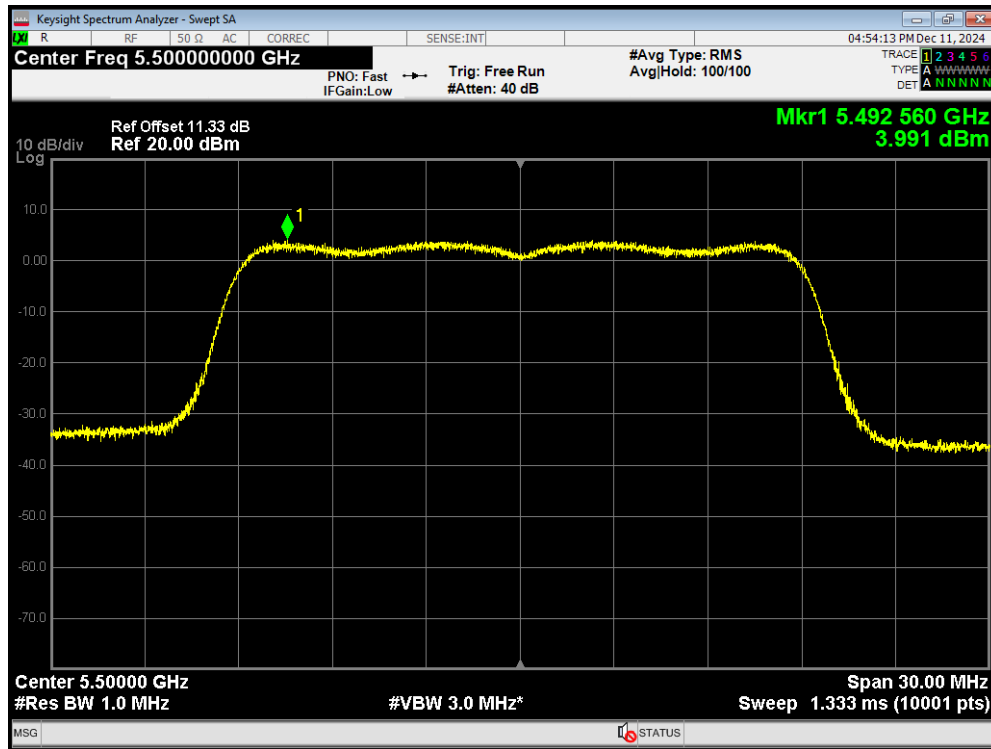
PSD 802.11a 5700MHz



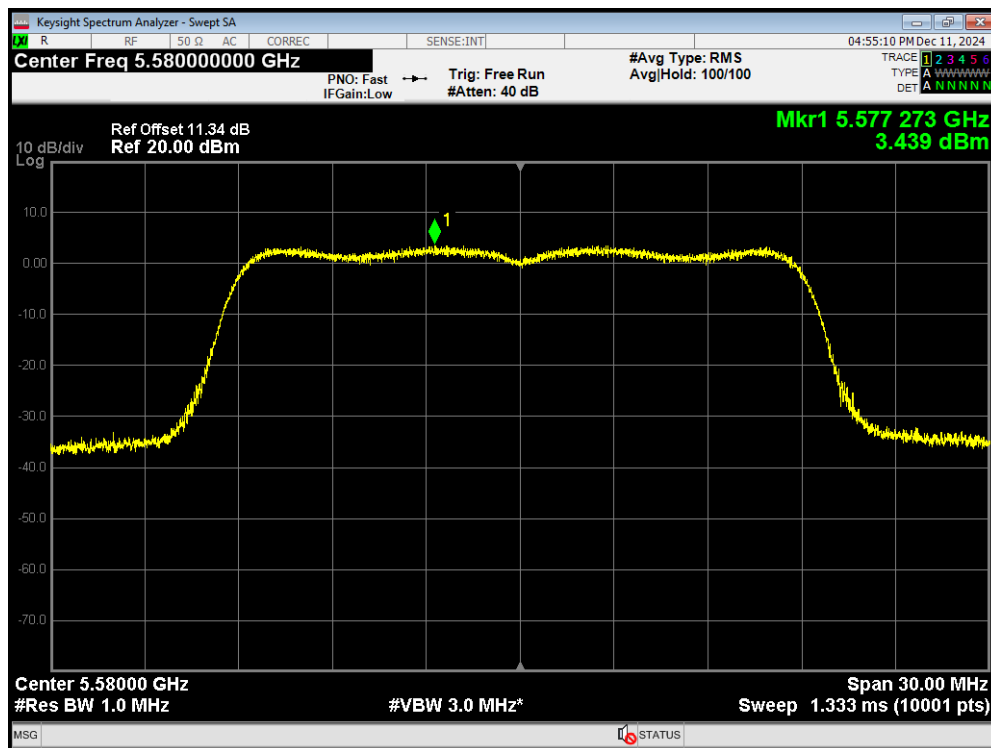
PSD 802.11a 5720MHz



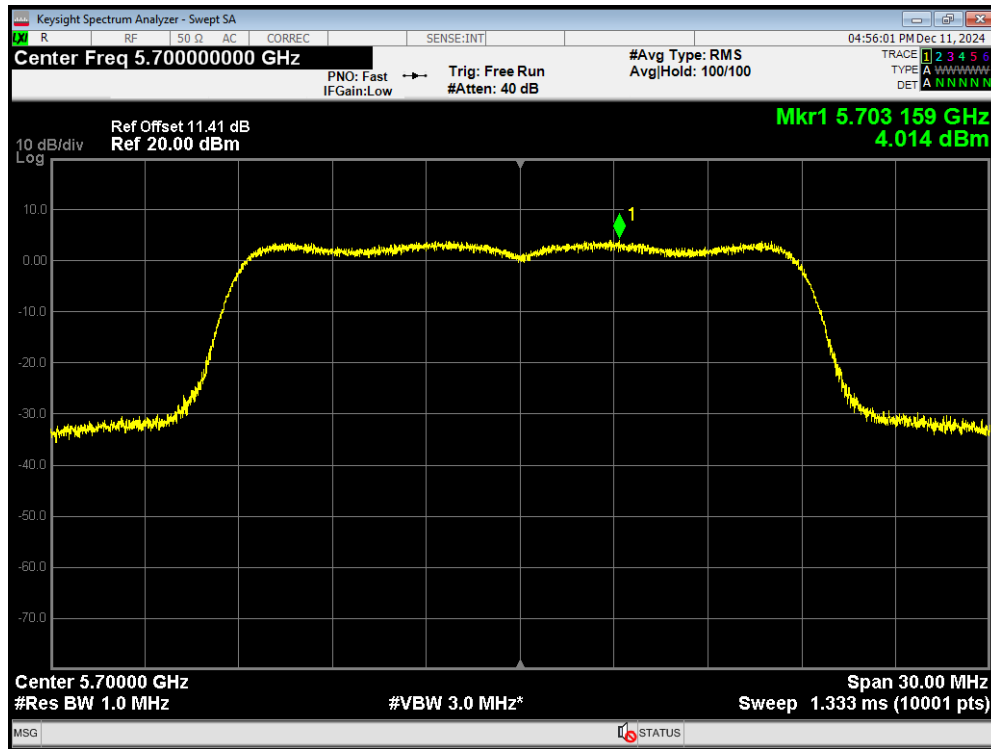
PSD 802.11ac(VHT20) 5500MHz



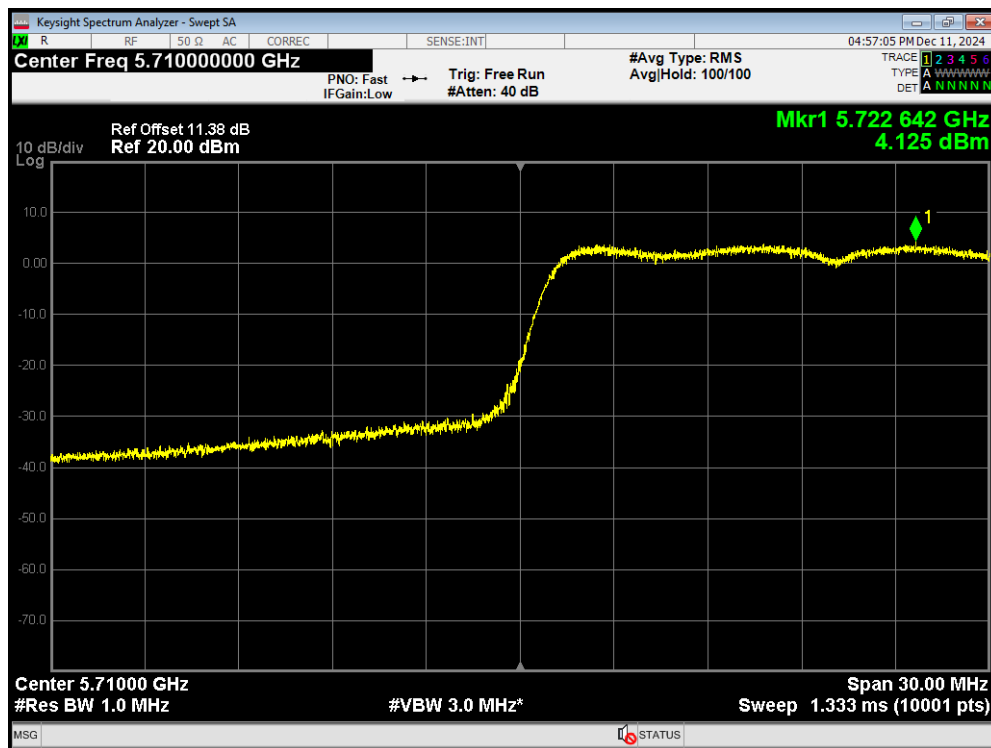
PSD 802.11ac(VHT20) MHz



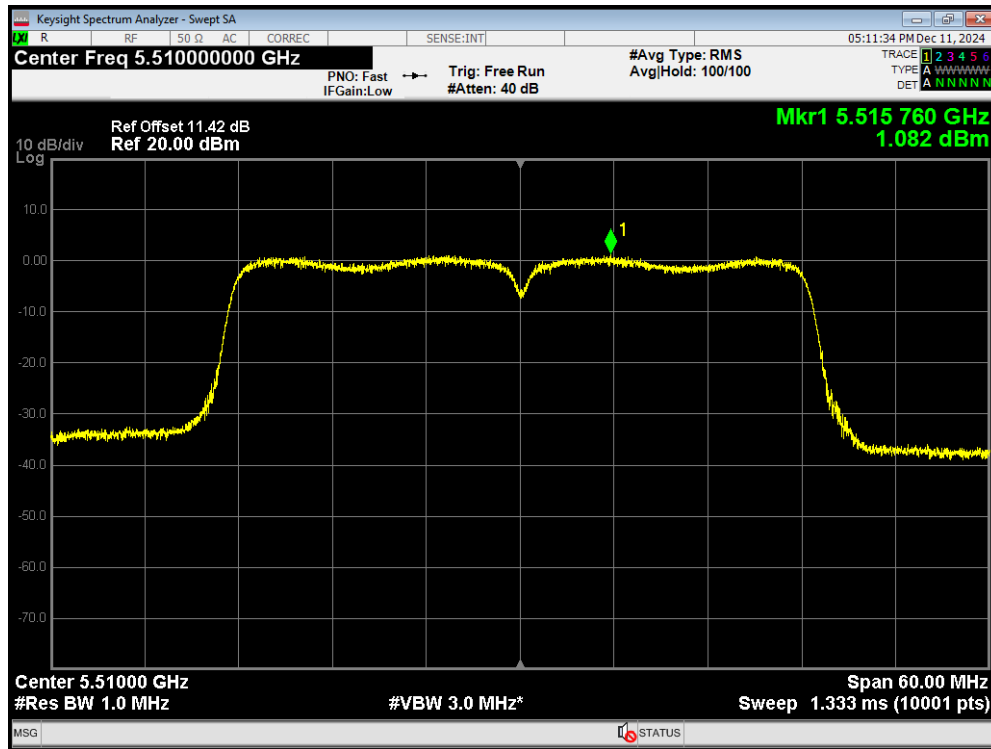
PSD 802.11ac(VHT20) 5700MHz



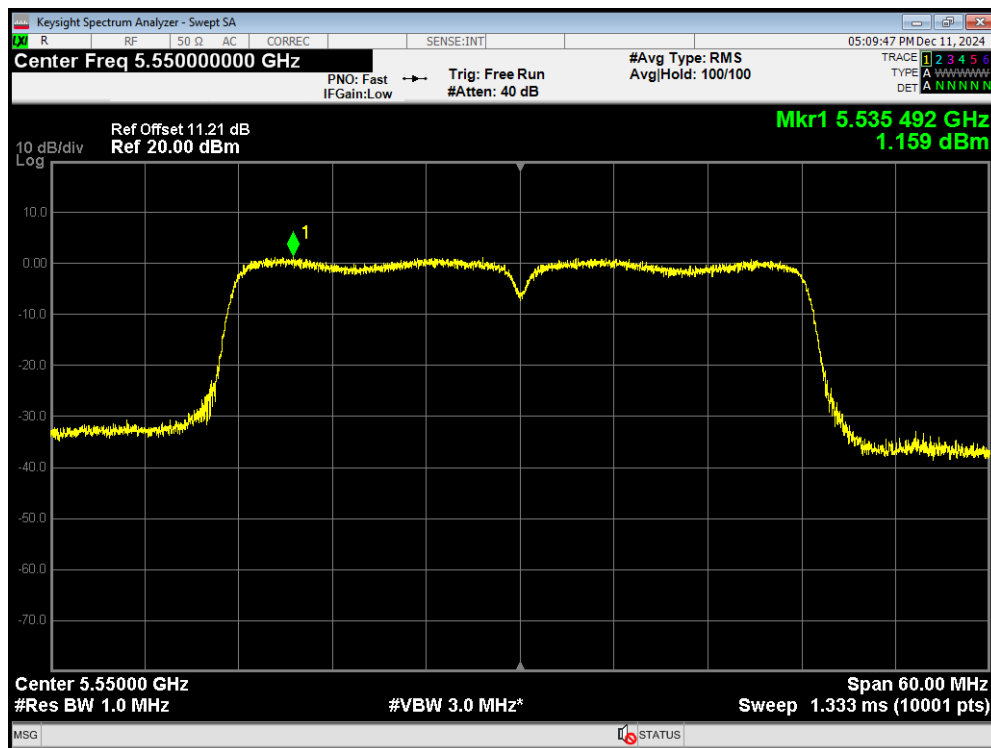
PSD 802.11ac(VHT20) 5720MHz



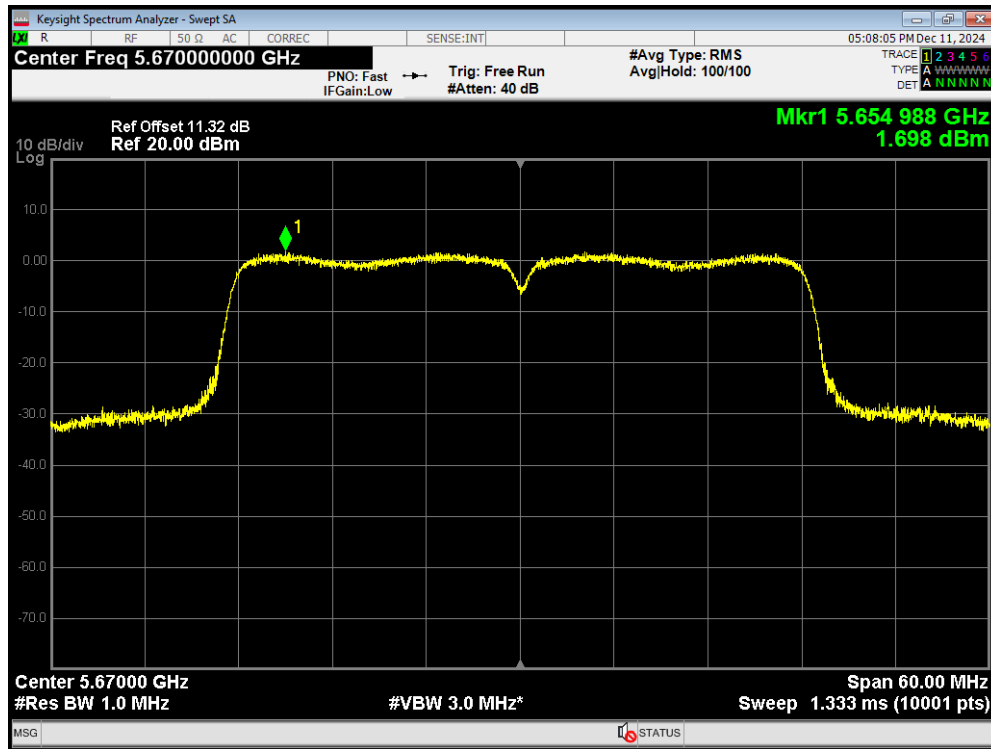
PSD 802.11ac(VHT40) 5510MHz



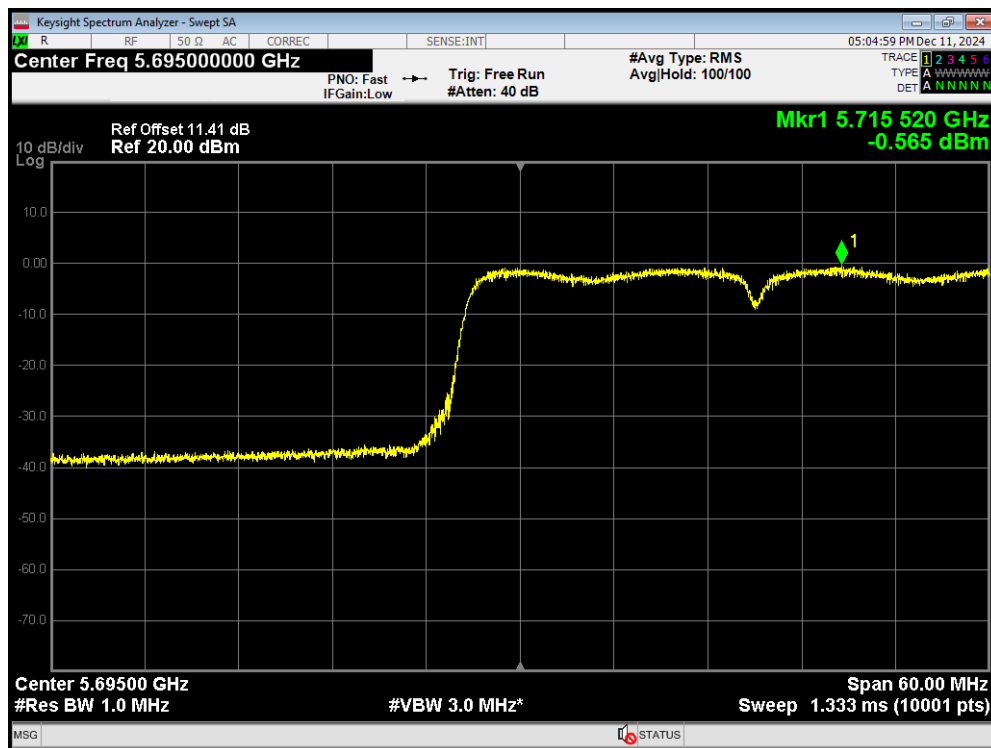
PSD 802.11ac(VHT40) 5550MHz



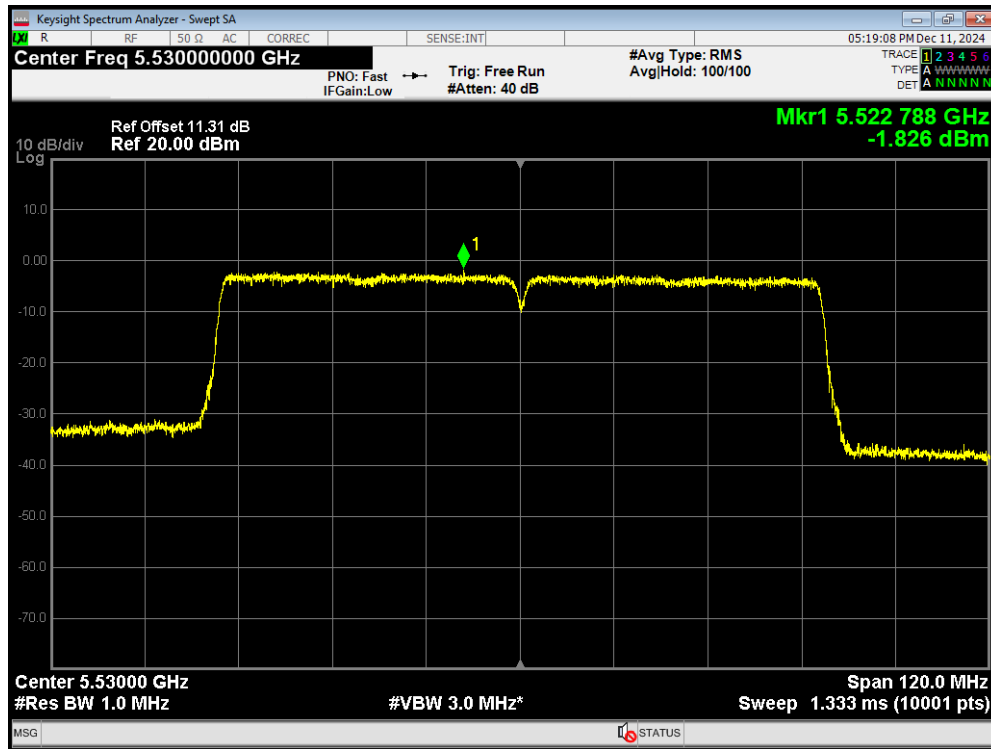
PSD 802.11ac(VHT40) 5670MHz



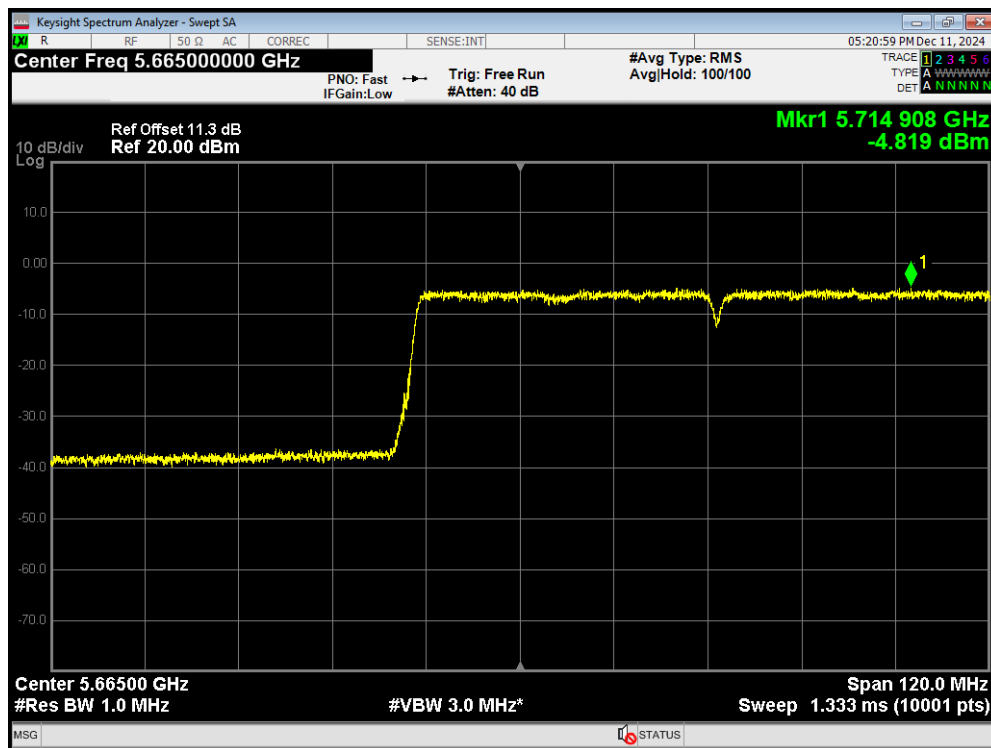
PSD 802.11ac(VHT40) 5690MHz



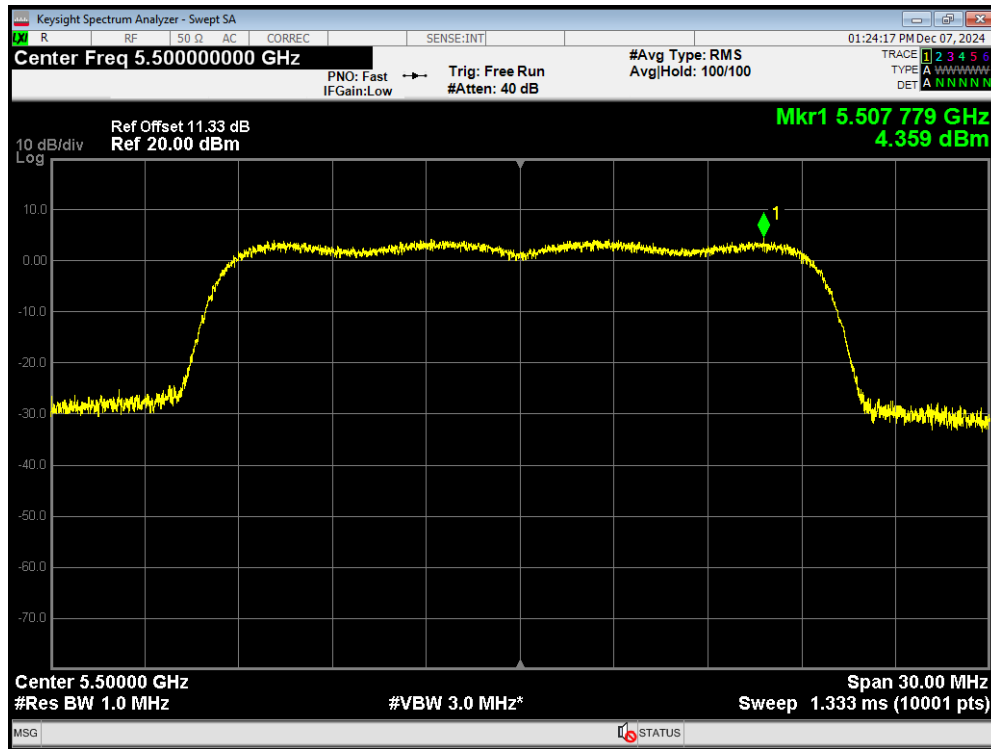
PSD 802.11ac(VHT80) 5530MHz



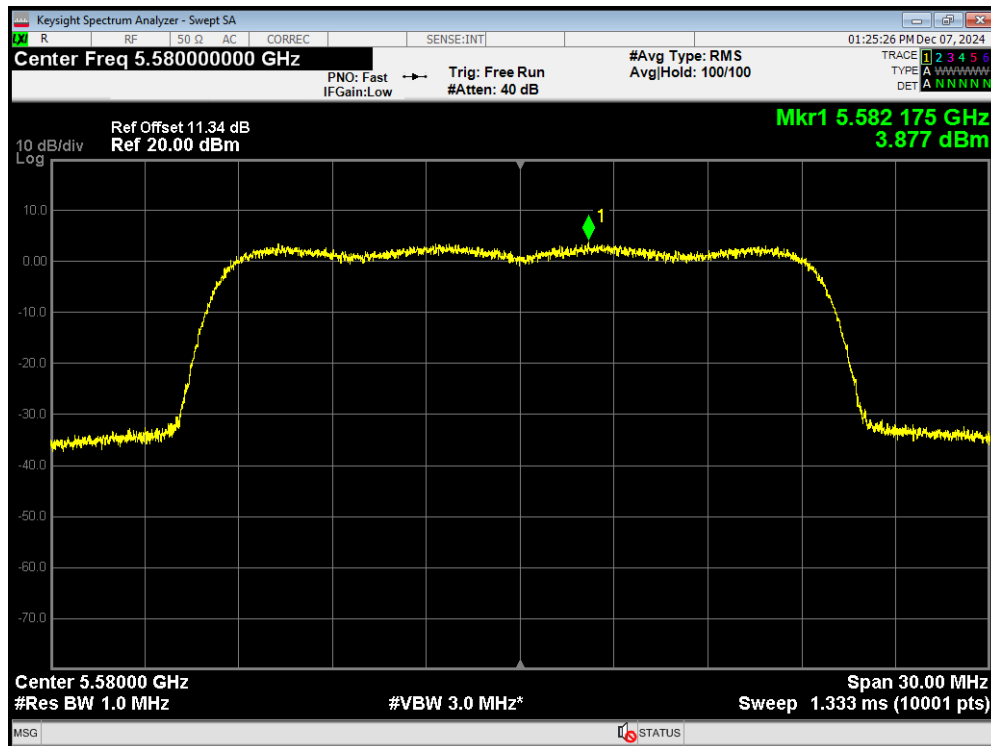
PSD 802.11ac(VHT80) 5690MHz



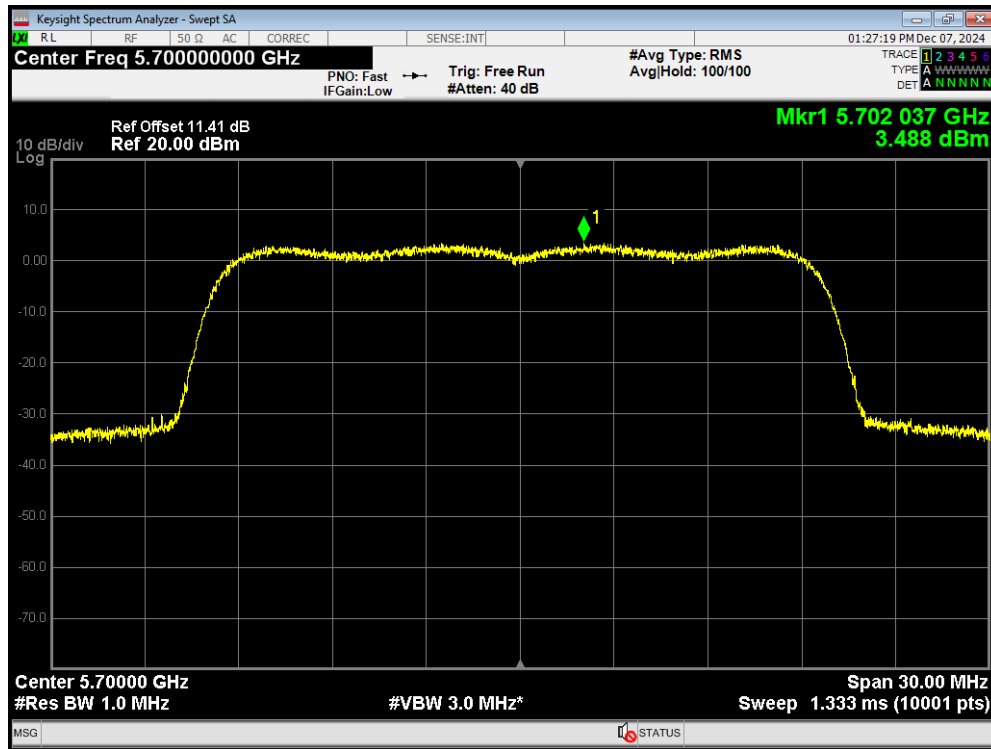
PSD 802.11ax(HE20) 5500MHz



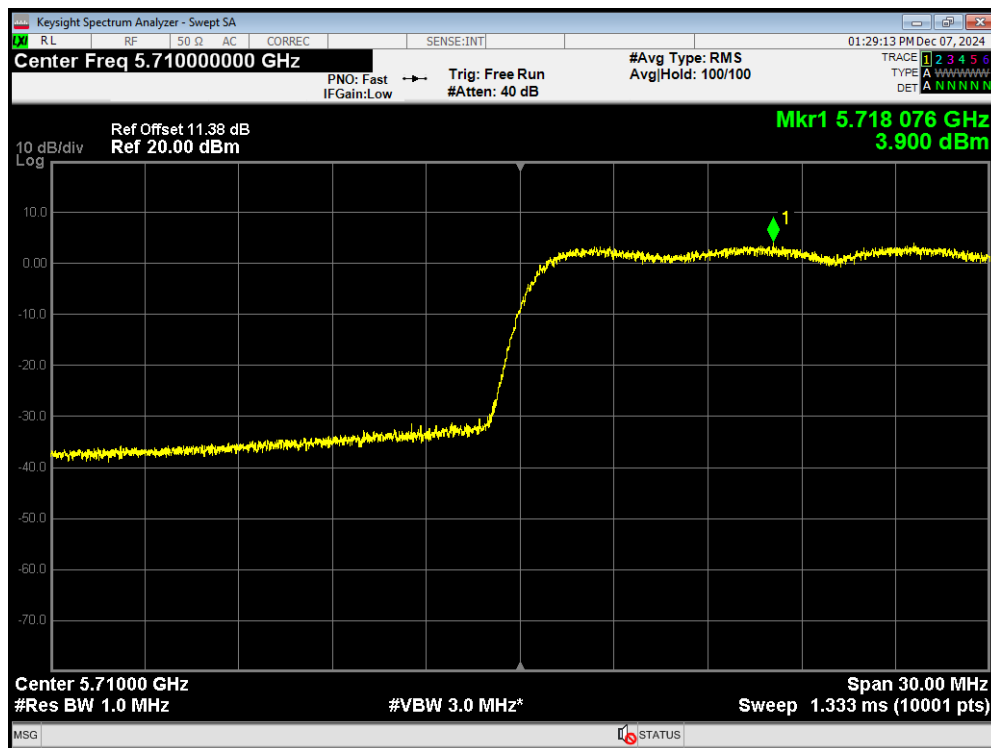
PSD 802.11ax(HE20) MHz



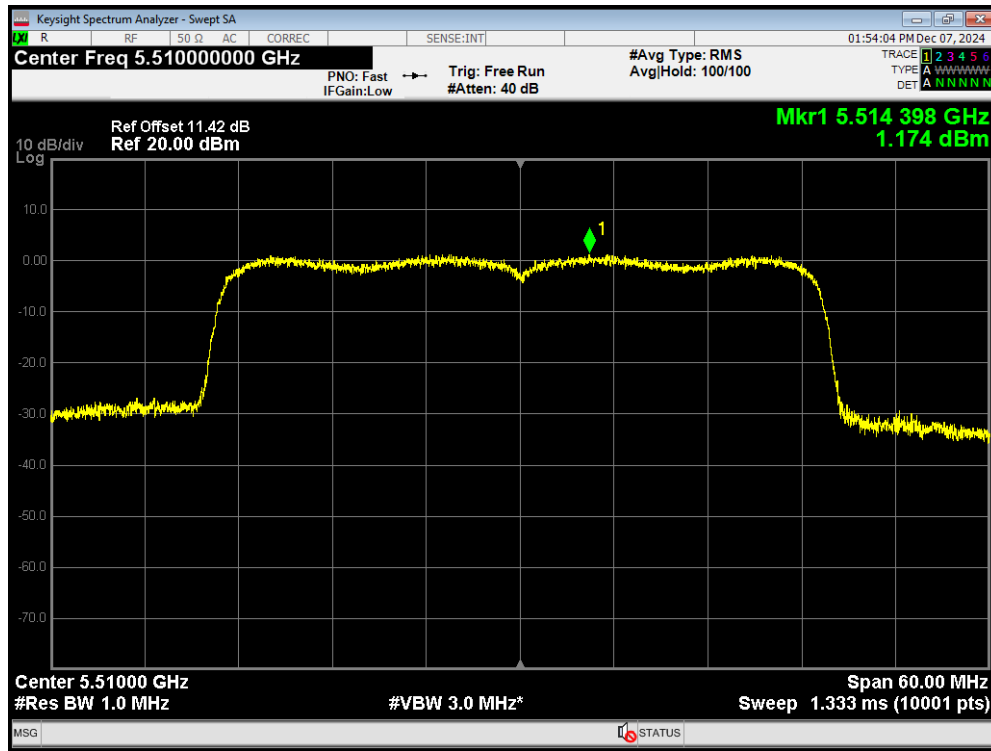
PSD 802.11ax(HE20) 5700MHz



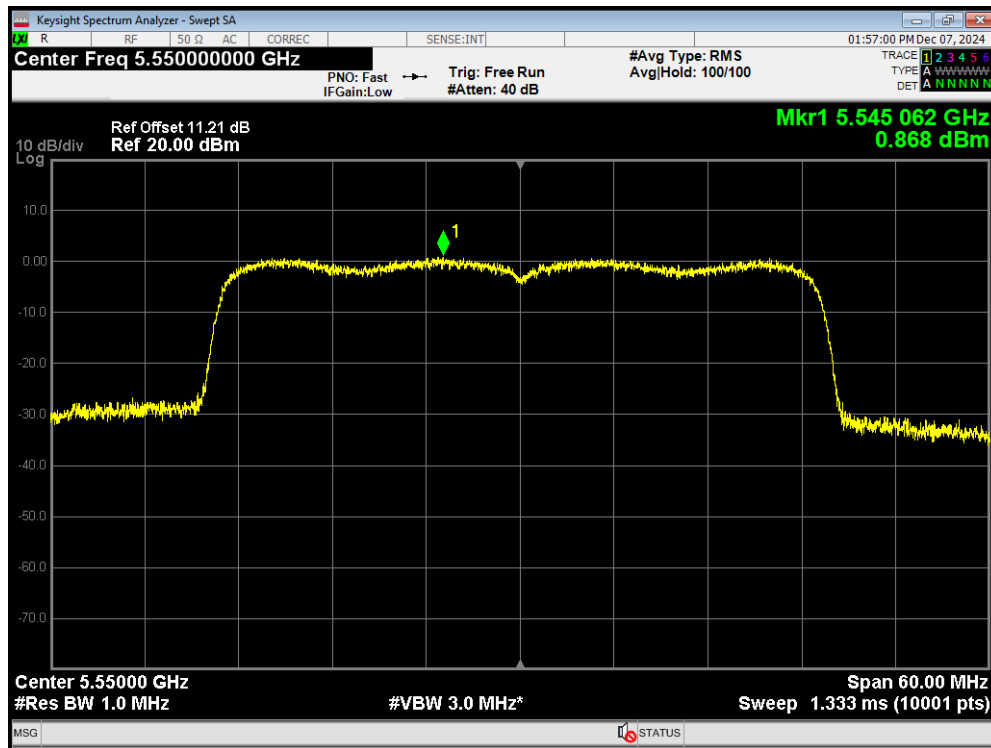
PSD 802.11ax(HE20) 5720MHz



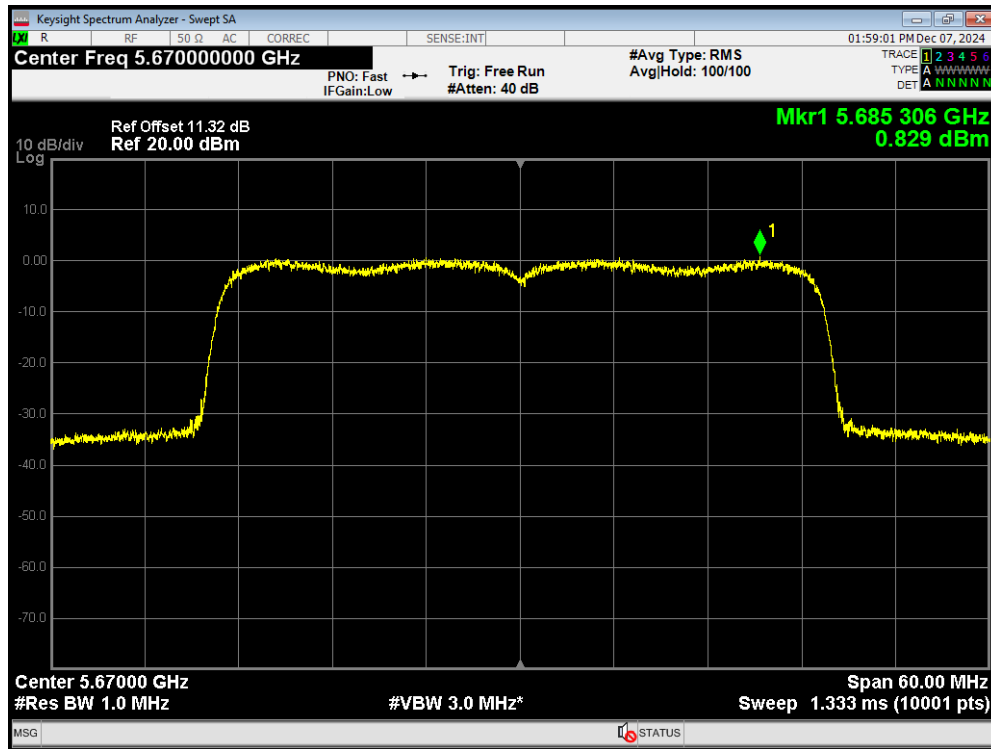
PSD 802.11ax(HE40) 5510MHz



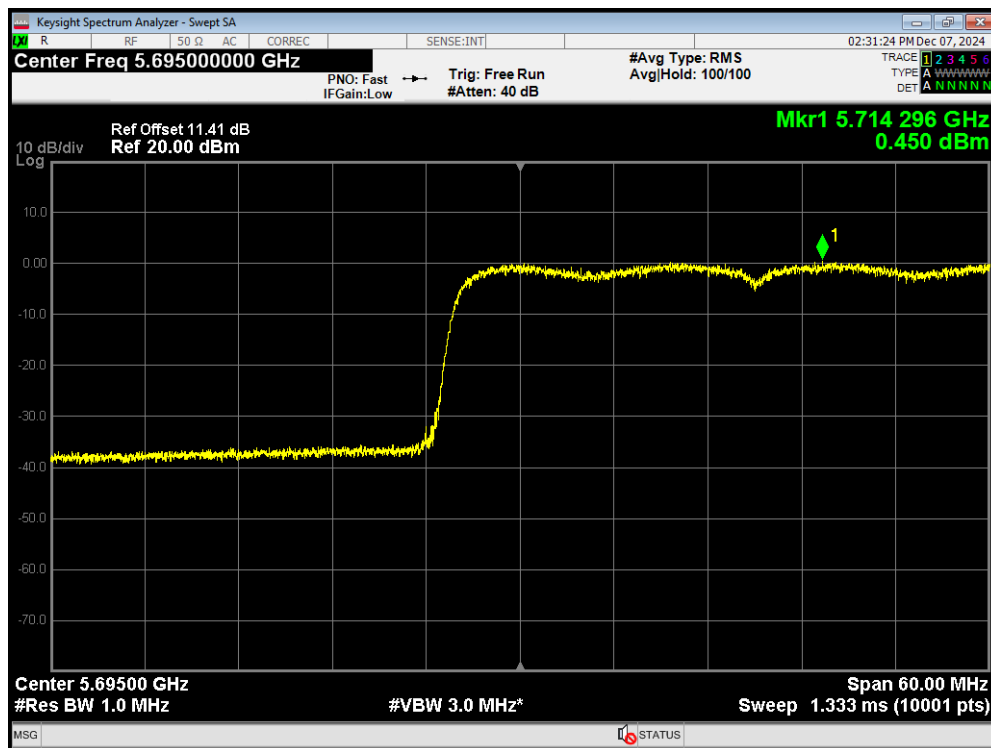
PSD 802.11ax(HE40) 5550MHz



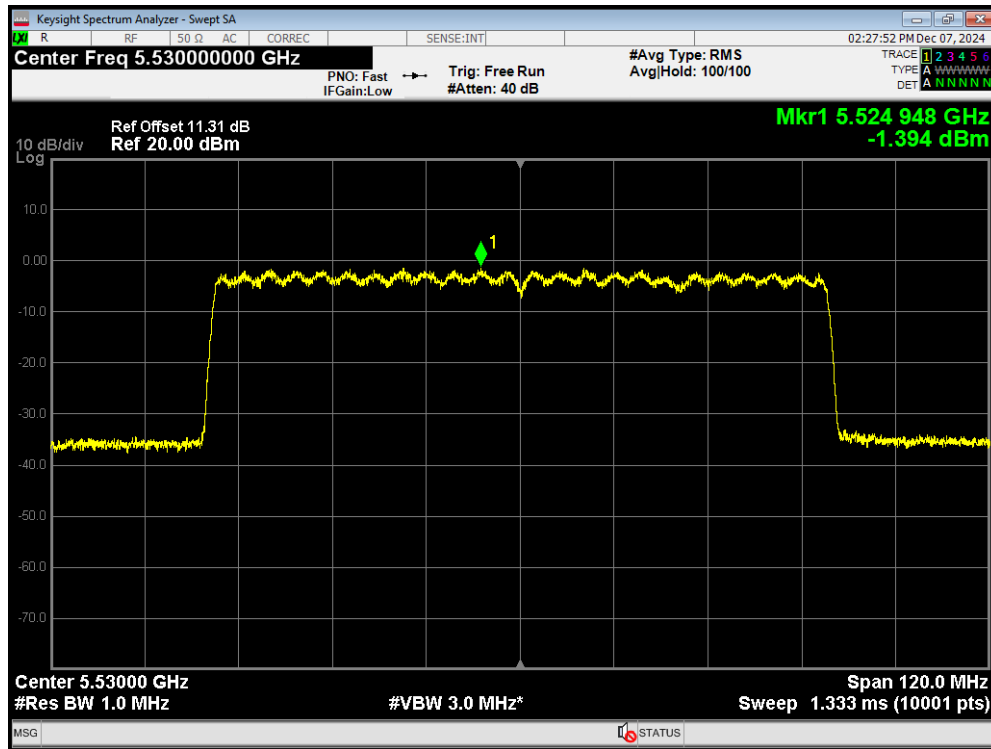
PSD 802.11ax(HE40) 5670MHz



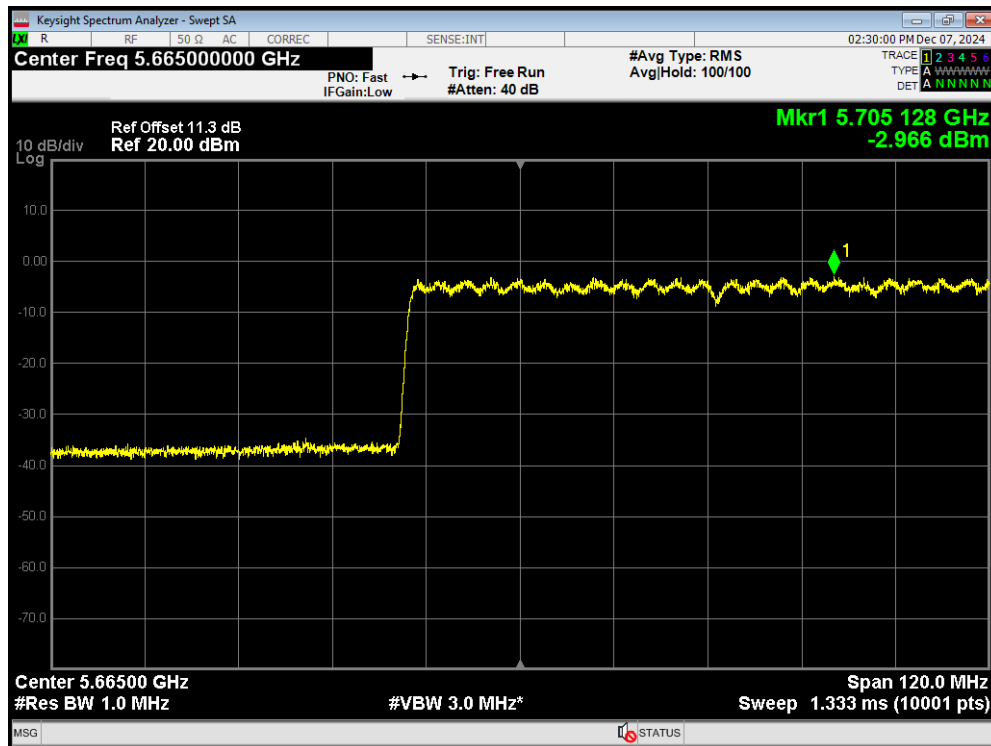
PSD 802.11ax(HE40) 5710MHz



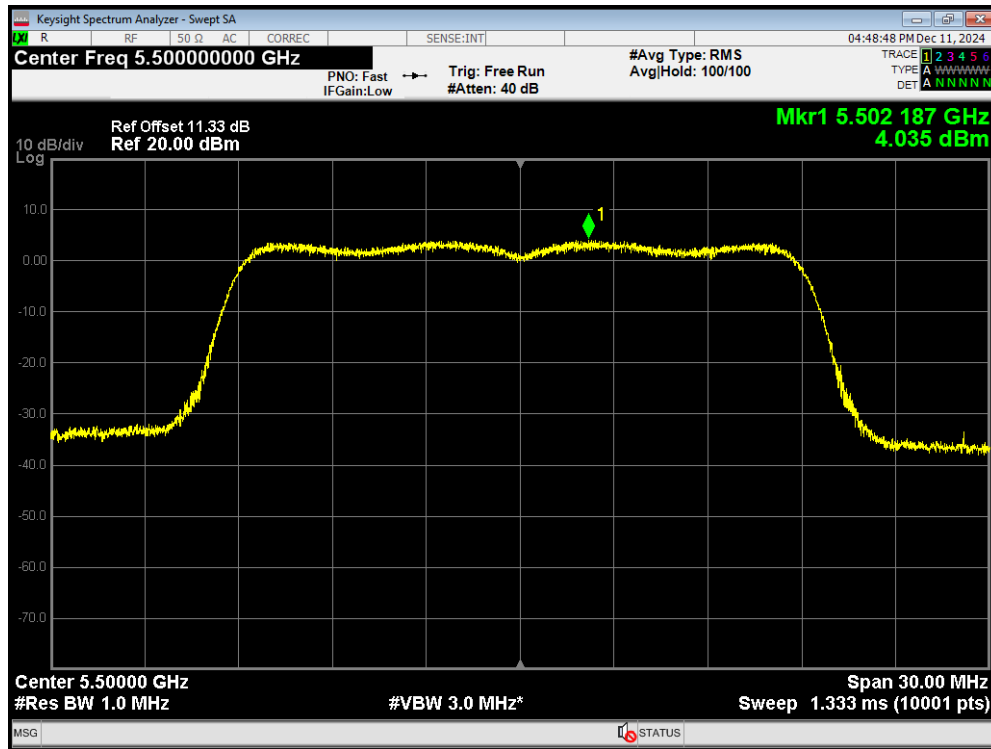
PSD 802.11ax(HE80) 5530MHz



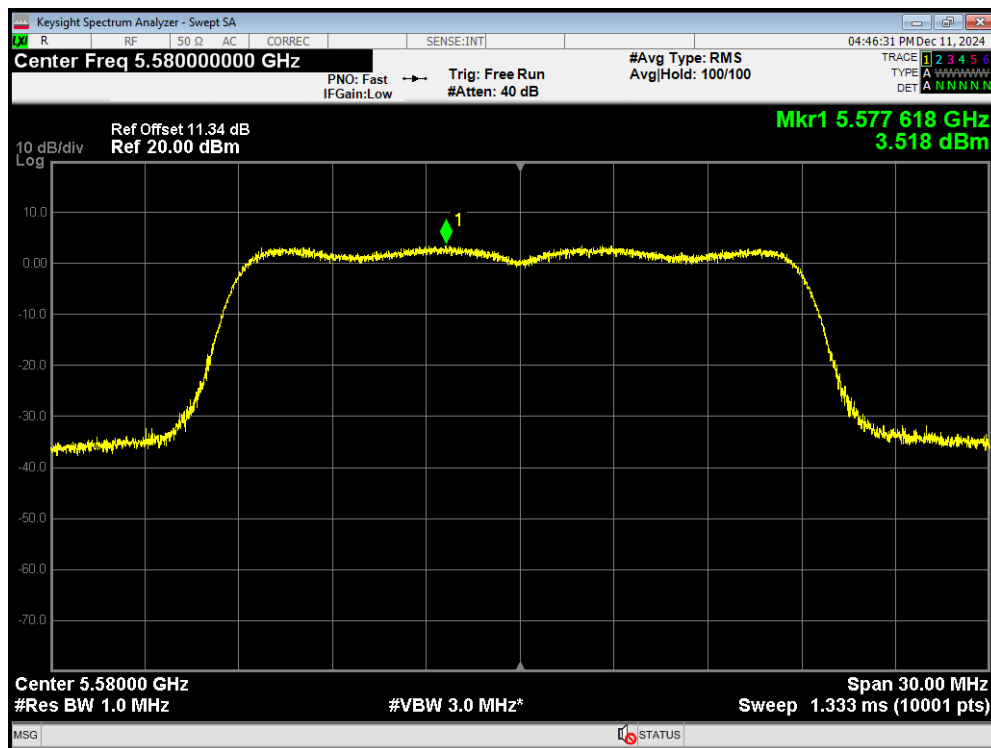
PSD 802.11ax(HE80) 5690MHz



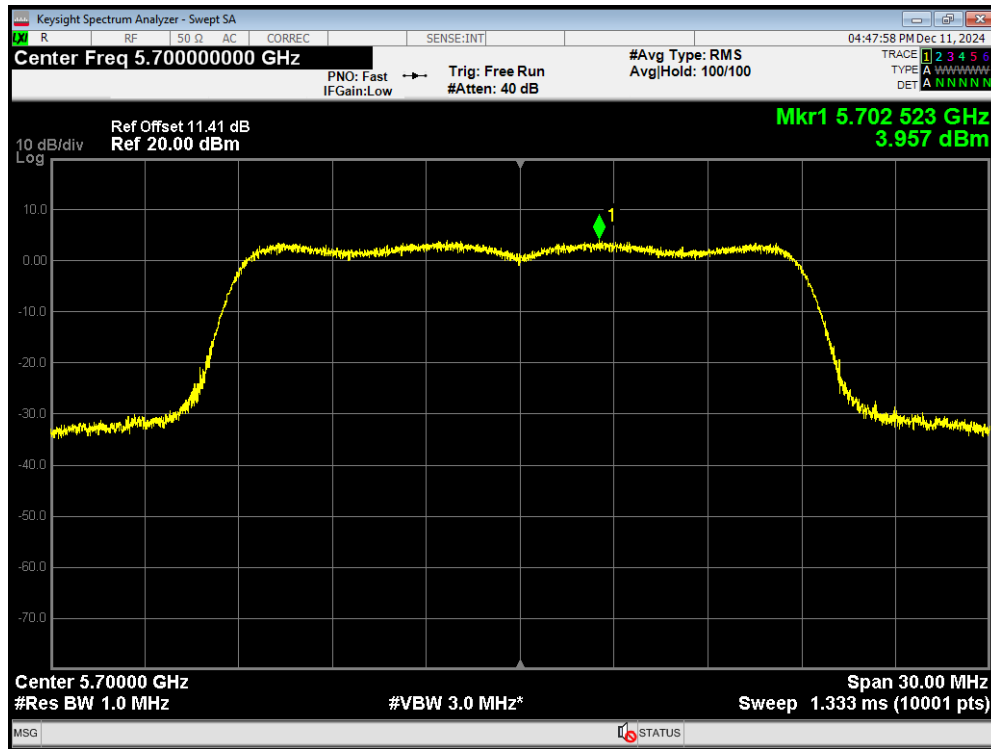
PSD 802.11n(HT20) 5500MHz



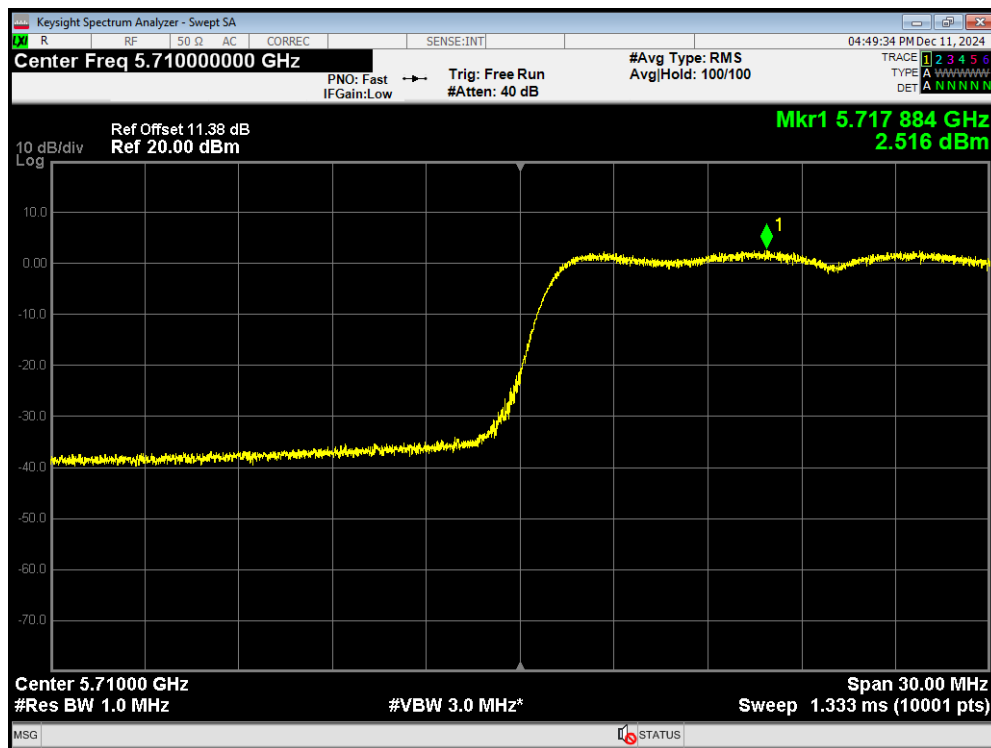
PSD 802.11n(HT20) MHz



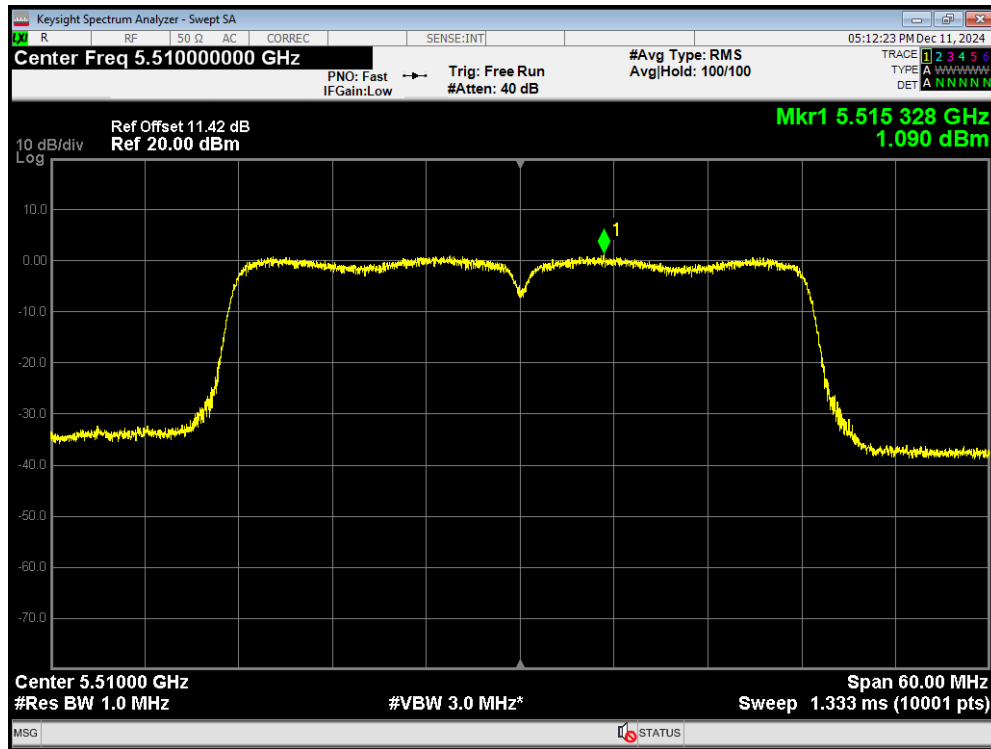
PSD 802.11n(HT20) 5700MHz



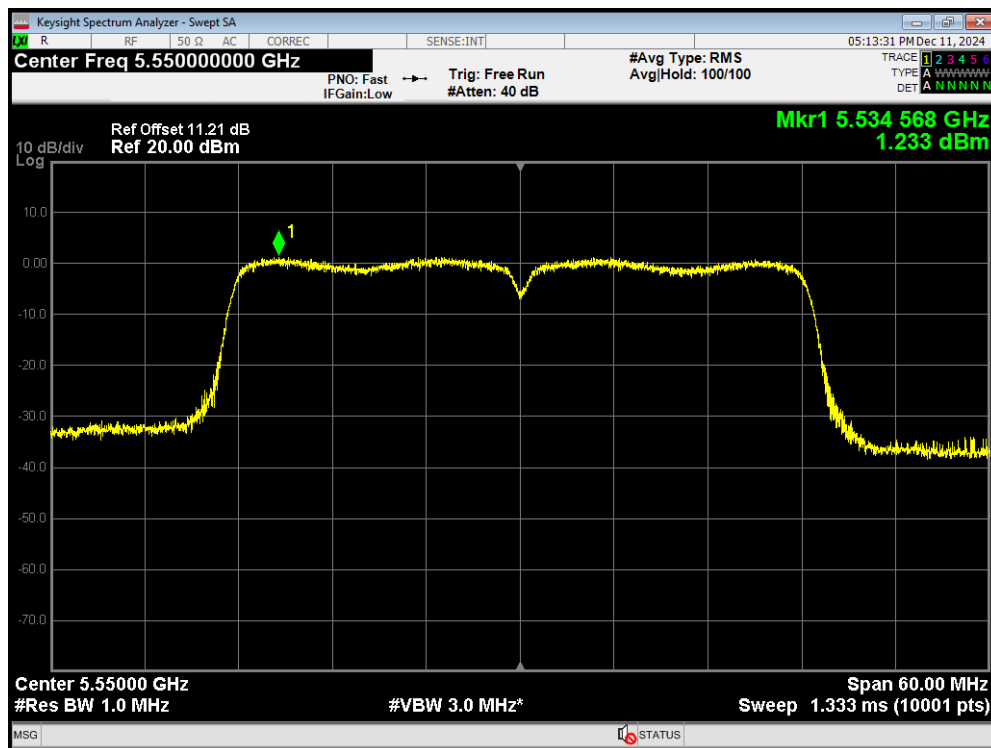
PSD 802.11n(HT20) 5720MHz



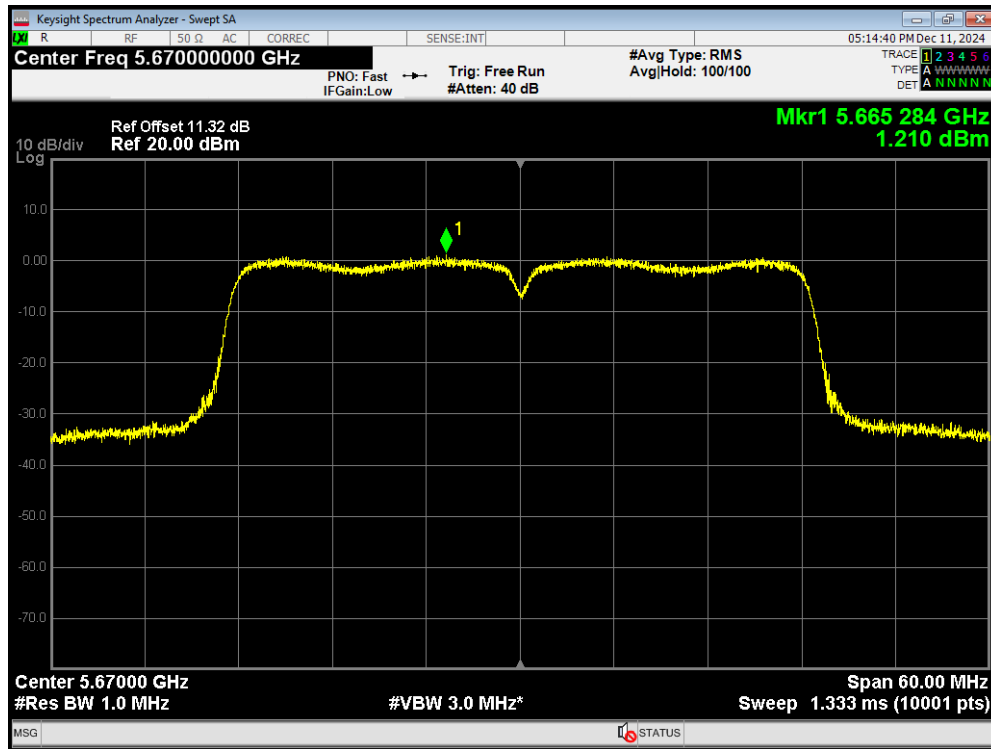
PSD 802.11n(HT40) 5510MHz



PSD 802.11n(HT40) 5550MHz



PSD 802.11n(HT40) 5670MHz



PSD 802.11n(HT40) 5690MHz

