

5.4. Power Spectral Density

Ambient condition

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

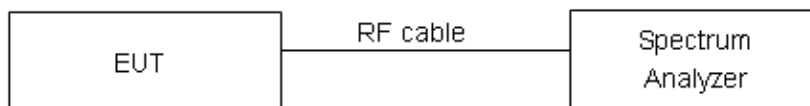
Method of Measurement

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 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.

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:
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Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	1.23	3.60	11	PASS
	40/5200	5.18	7.55	11	PASS
	48/5240	5.43	7.80	11	PASS
802.11n HT20	36/5180	4.20	4.99	11	PASS
	40/5200	6.08	6.87	11	PASS
	48/5240	6.05	6.84	11	PASS
802.11n HT40	38/5190	2.88	3.70	11	PASS
	46/5230	3.38	4.20	11	PASS
802.11ac VHT20	36/5180	5.19	5.98	11	PASS
	40/5200	5.32	6.11	11	PASS
	48/5240	5.29	6.08	11	PASS
802.11ac VHT40	38/5190	2.23	3.05	11	PASS
	46/5230	2.00	2.82	11	PASS
802.11ax HE20	36/5180	5.03	6.04	11	PASS
	40/5200	4.81	5.82	11	PASS
	48/5240	4.84	5.85	11	PASS
802.11ax HE40	38/5190	1.58	2.59	11	PASS
	46/5230	1.52	2.53	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

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Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	5.23	7.60	11	PASS
	60/5300	5.86	8.23	11	PASS
	64/5320	6.00	8.37	11	PASS
802.11n HT20	52/5260	6.24	7.03	11	PASS
	60/5300	6.54	7.33	11	PASS
	64/5320	6.77	7.56	11	PASS
802.11n HT40	54/5270	3.36	4.18	11	PASS
	62/5310	3.30	4.12	11	PASS
802.11ac VHT20	52/5260	5.31	6.10	11	PASS
	60/5300	5.75	6.54	11	PASS
	64/5320	5.89	6.68	11	PASS
802.11ac VHT40	54/5270	2.04	2.86	11	PASS
	62/5310	2.44	3.26	11	PASS
802.11ax HE20	52/5260	5.01	6.02	11	PASS
	60/5300	5.04	6.05	11	PASS
	64/5320	5.34	6.35	11	PASS
802.11ax HE40	54/5270	1.96	2.97	11	PASS
	62/5310	2.47	3.48	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

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Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	-1.67	0.70	11	PASS
	120/5600	4.85	7.22	11	PASS
	140/5700	-0.19	2.18	11	PASS
	144/5720	4.02	6.39	11	PASS
802.11n HT20	100/5500	0.23	1.02	11	PASS
	120/5600	5.16	5.95	11	PASS
	140/5700	-0.18	0.61	11	PASS
	144/5720	4.33	5.12	11	PASS
802.11n HT40	102/5510	-2.39	-1.57	11	PASS
	118/5590	2.42	3.24	11	PASS
	134/5670	1.72	2.54	11	PASS
	142/5710	1.28	2.10	11	PASS
802.11ac VHT20	100/5500	0.35	1.14	11	PASS
	120/5600	3.90	4.69	11	PASS
	140/5700	0.00	0.79	11	PASS
	144/5720	3.42	4.21	11	PASS
802.11ac VHT40	102/5510	-2.65	-1.83	11	PASS
	118/5590	1.47	2.29	11	PASS
	134/5670	0.59	1.41	11	PASS
	142/5710	0.56	1.38	11	PASS
802.11ax HE20	100/5500	0.02	1.03	11	PASS
	120/5600	3.90	4.91	11	PASS
	140/5700	1.39	2.40	11	PASS
	144/5720	2.90	3.91	11	PASS
802.11ax HE40	102/5510	-3.59	-2.58	11	PASS
	118/5590	0.88	1.89	11	PASS
	134/5670	0.83	1.84	11	PASS
	142/5710	0.34	1.35	11	PASS

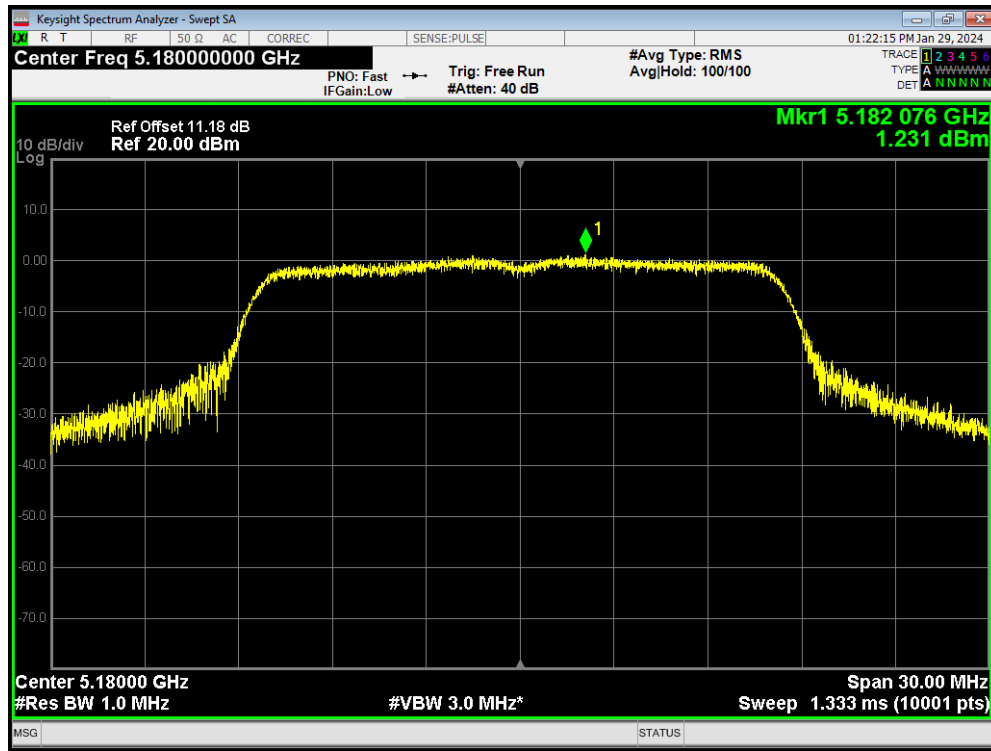
Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-3

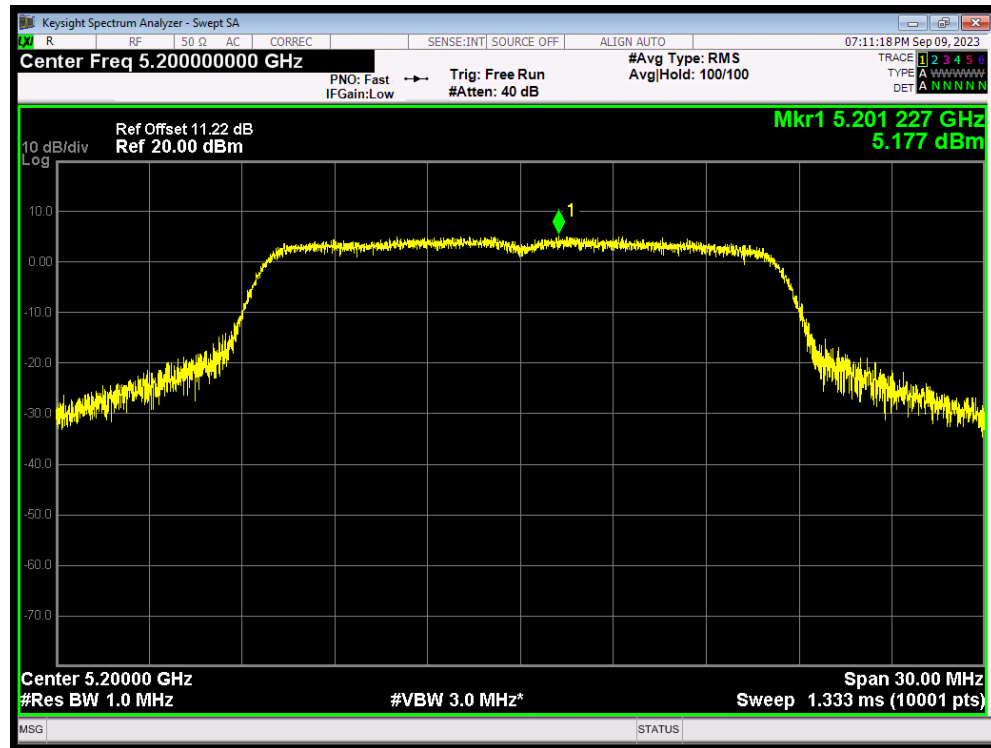
Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	-0.13	2.51	30	PASS
	149/5745	0.84	3.48	30	PASS
	157/5785	1.95	4.59	30	PASS
	165/5825	1.20	3.84	30	PASS
802.11n HT20	144/5720	0.89	1.95	30	PASS
	149/5745	2.37	3.43	30	PASS
	157/5785	2.24	3.30	30	PASS
	165/5825	2.07	3.13	30	PASS
802.11n HT40	142/5710	-2.06	-0.97	30	PASS
	151/5755	-0.77	0.32	30	PASS
	159/5795	-0.75	0.34	30	PASS
802.11ac VHT20	144/5720	-0.01	1.05	30	PASS
	149/5745	-0.79	0.27	30	PASS
	157/5785	-0.95	0.11	30	PASS
	165/5825	-1.30	-0.24	30	PASS
802.11ac VHT40	142/5710	-2.72	-1.63	30	PASS
	151/5755	-2.00	-0.91	30	PASS
	159/5795	-1.84	-0.75	30	PASS
802.11ax HE20	144/5720	-0.47	0.81	30	PASS
	149/5745	0.90	2.18	30	PASS
	157/5785	1.09	2.37	30	PASS
	165/5825	0.37	1.65	30	PASS
802.11ax HE40	142/5710	-3.40	-2.12	30	PASS
	151/5755	-1.81	-0.53	30	PASS
	159/5795	-2.14	-0.86	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

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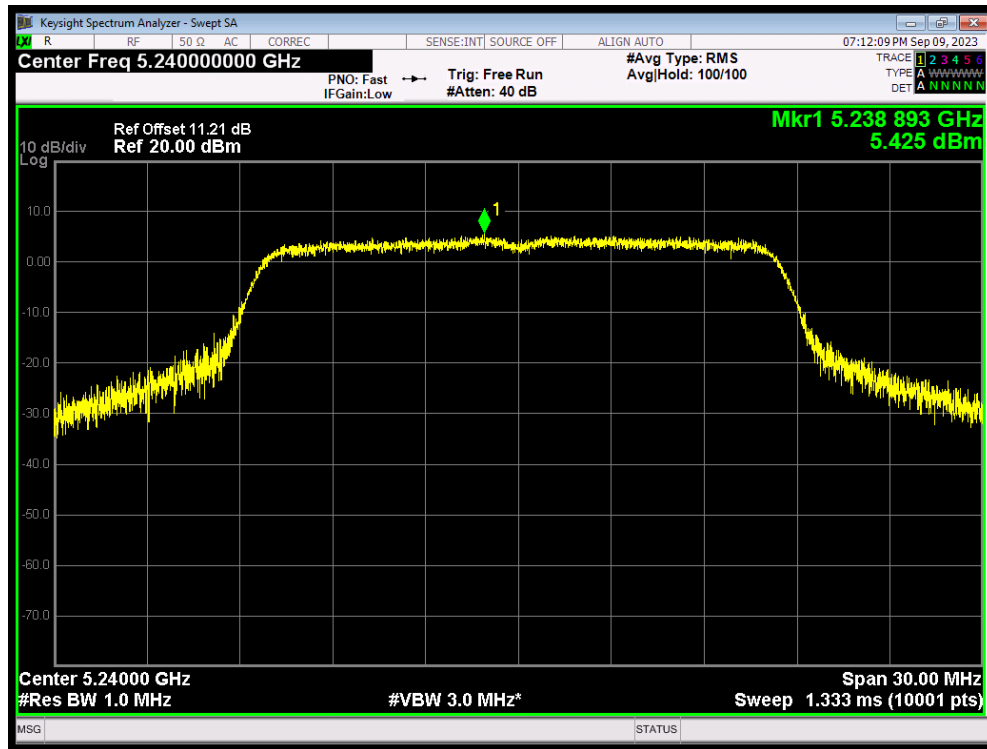
PSD 802.11a 5180MHz



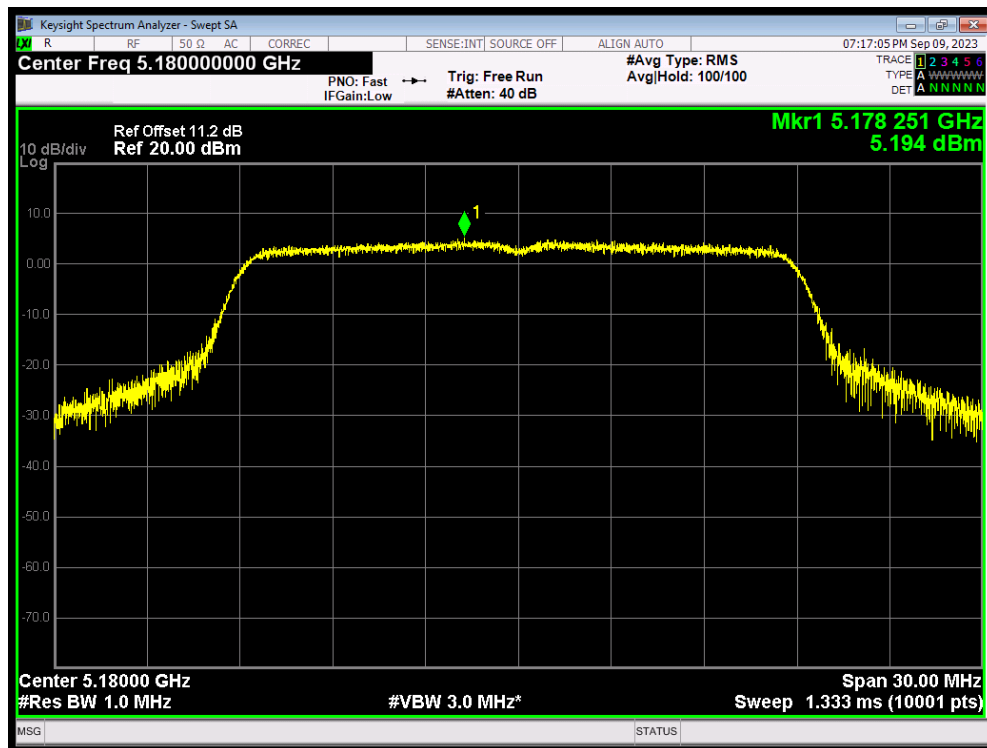
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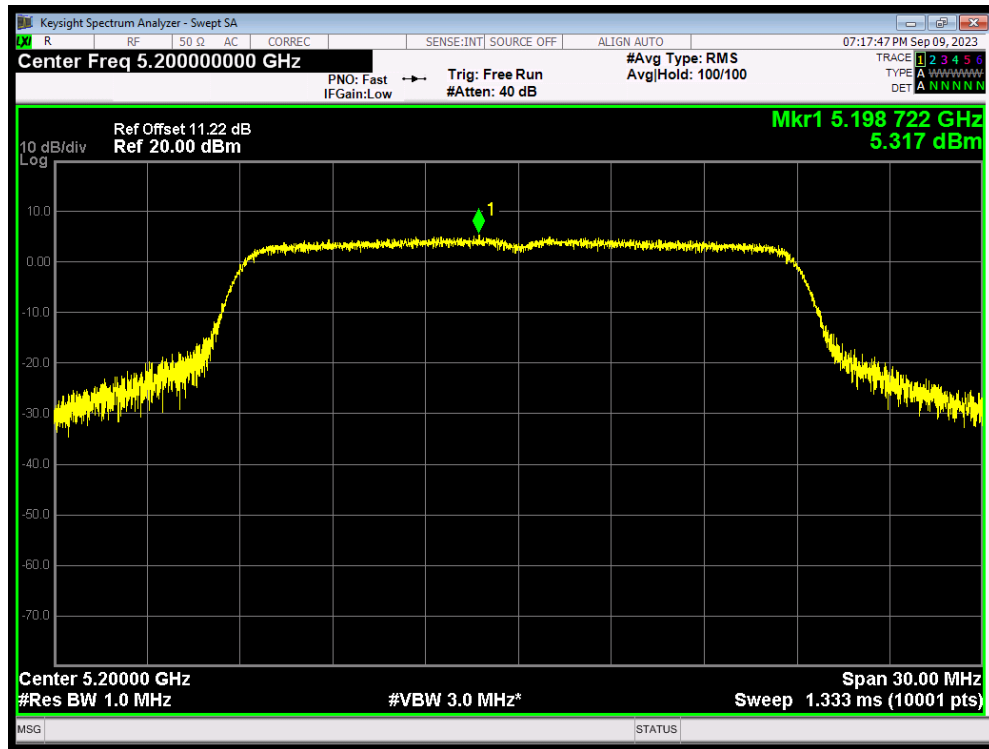
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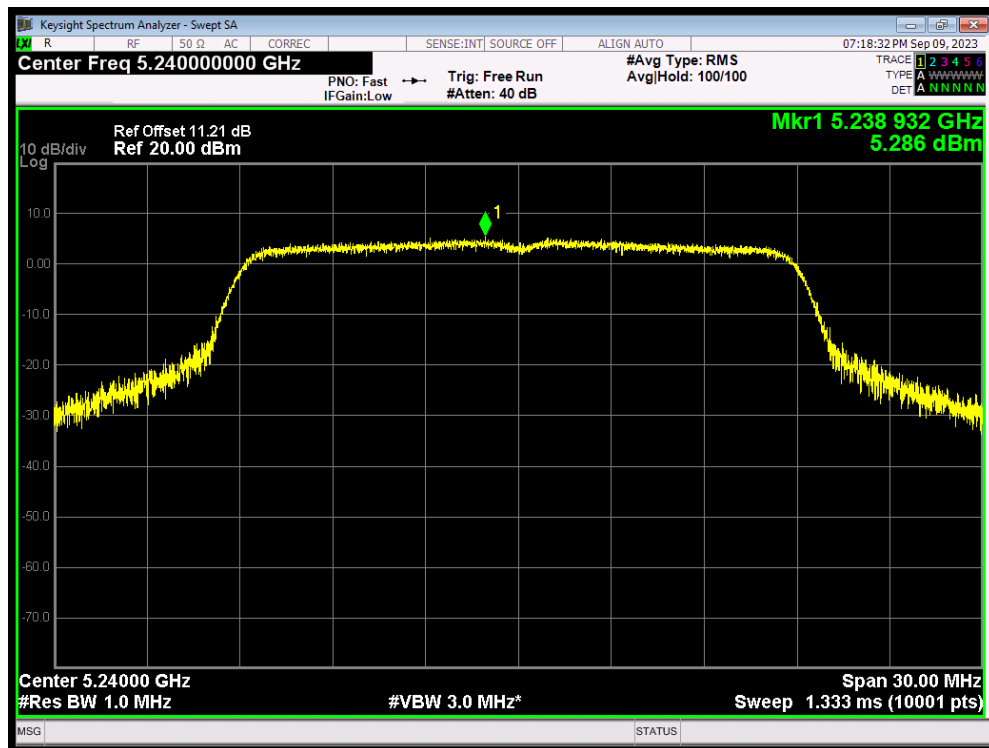
PSD 802.11ac(VHT20) 5180MHz



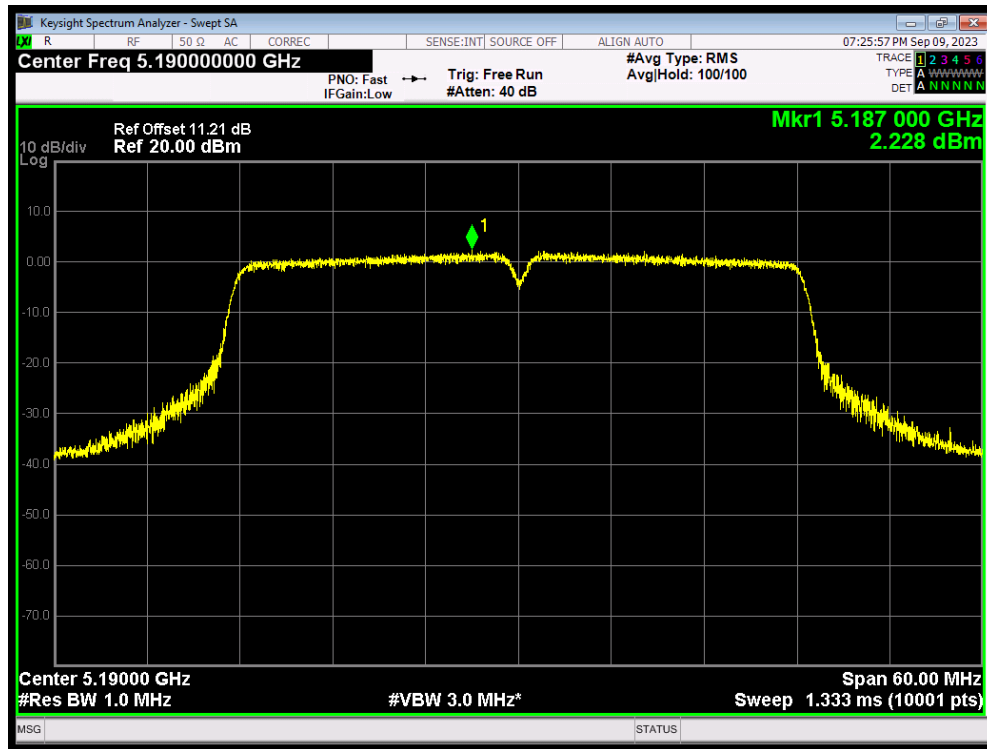
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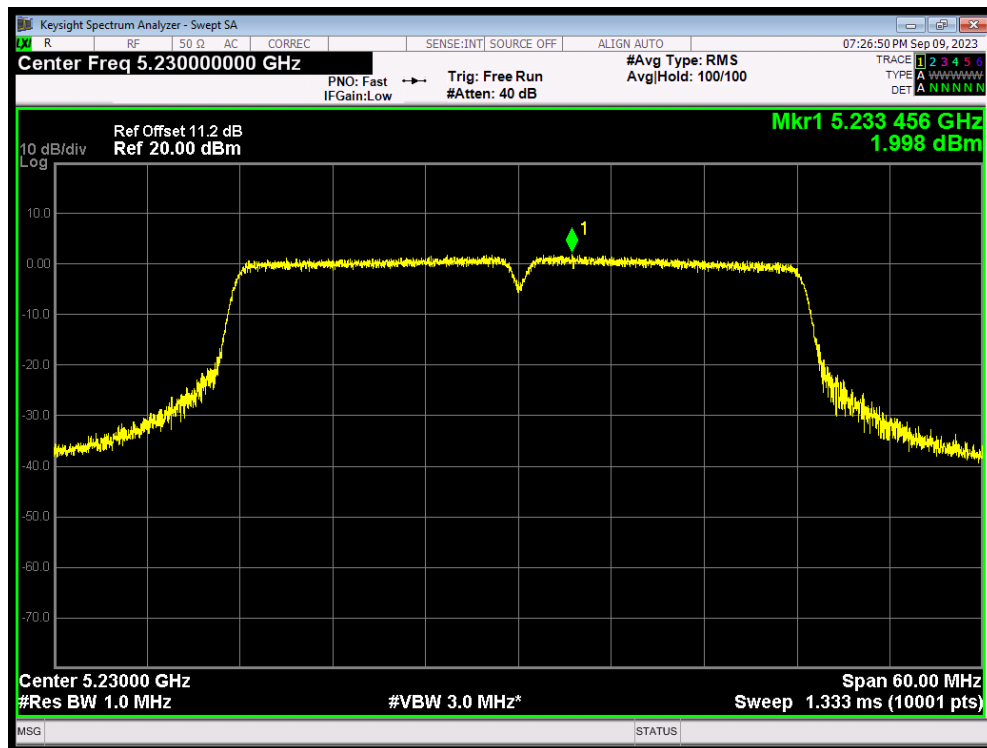
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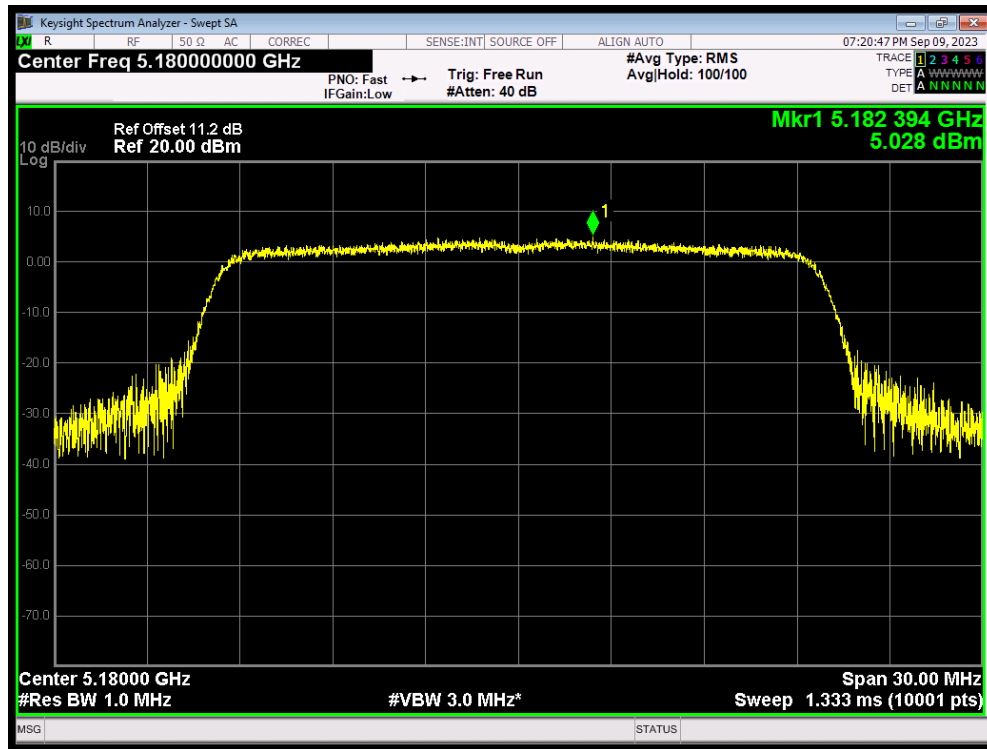
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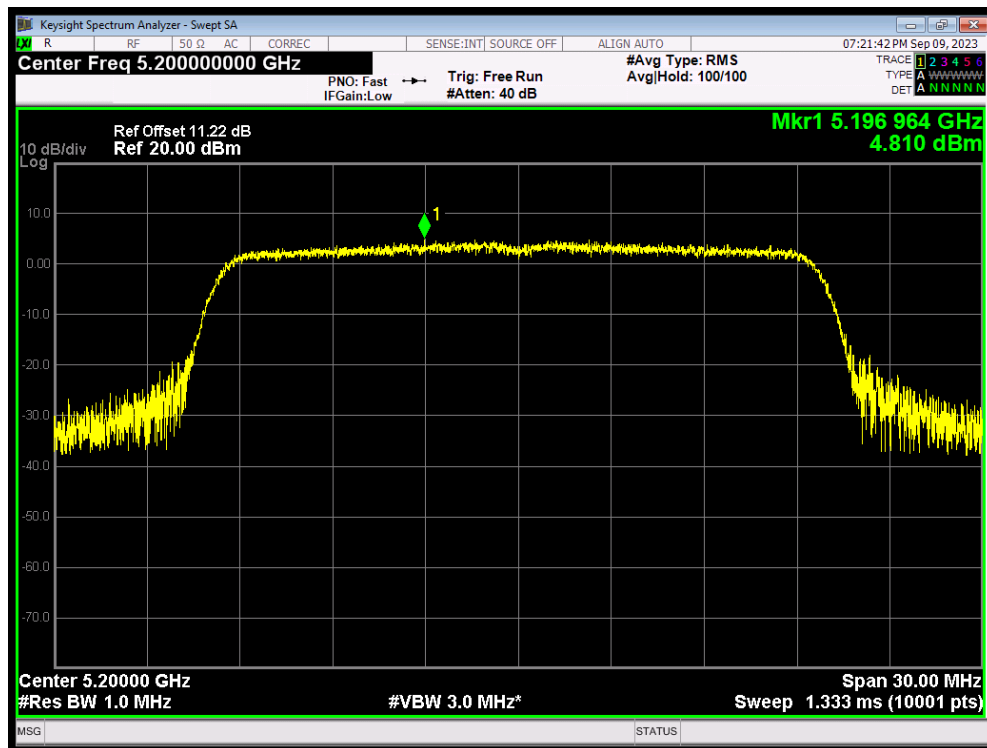
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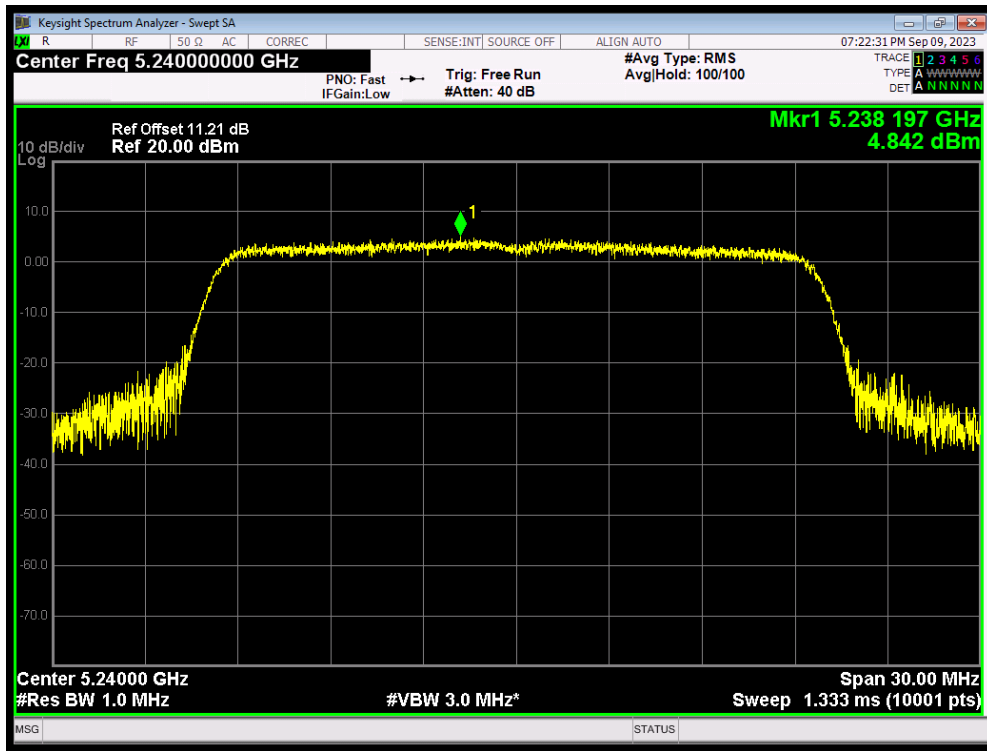
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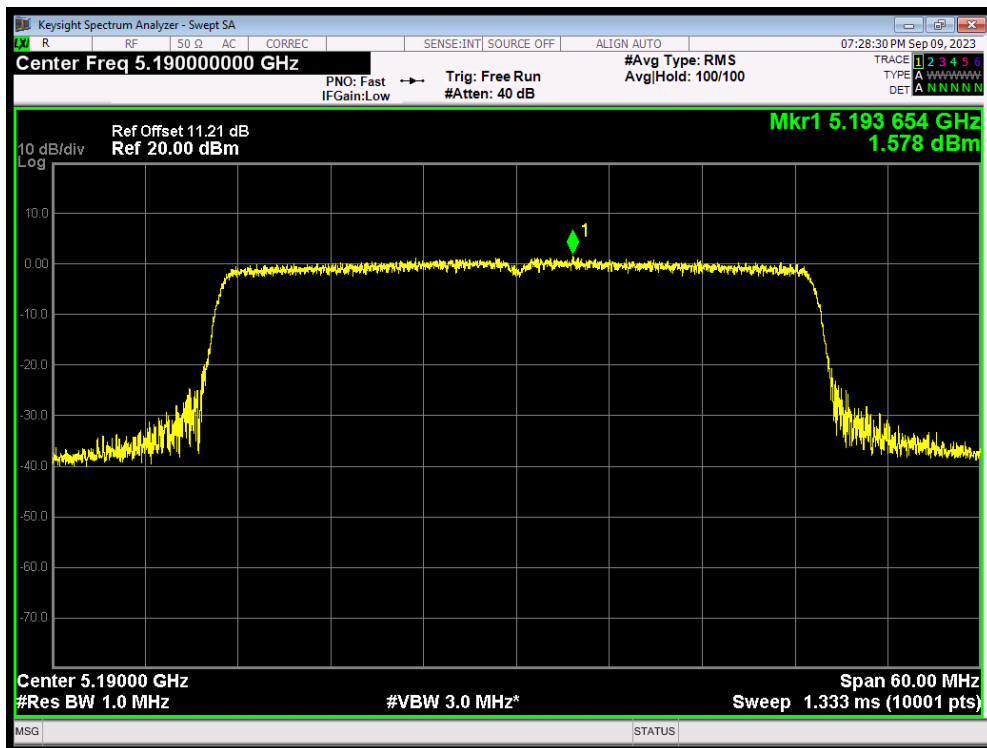
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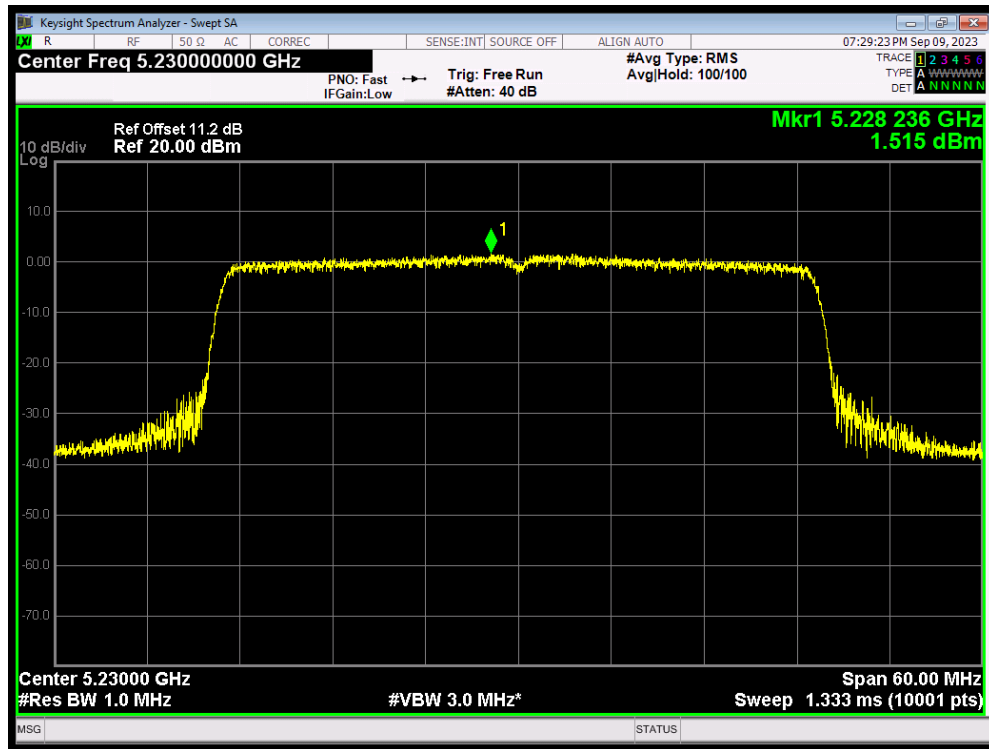
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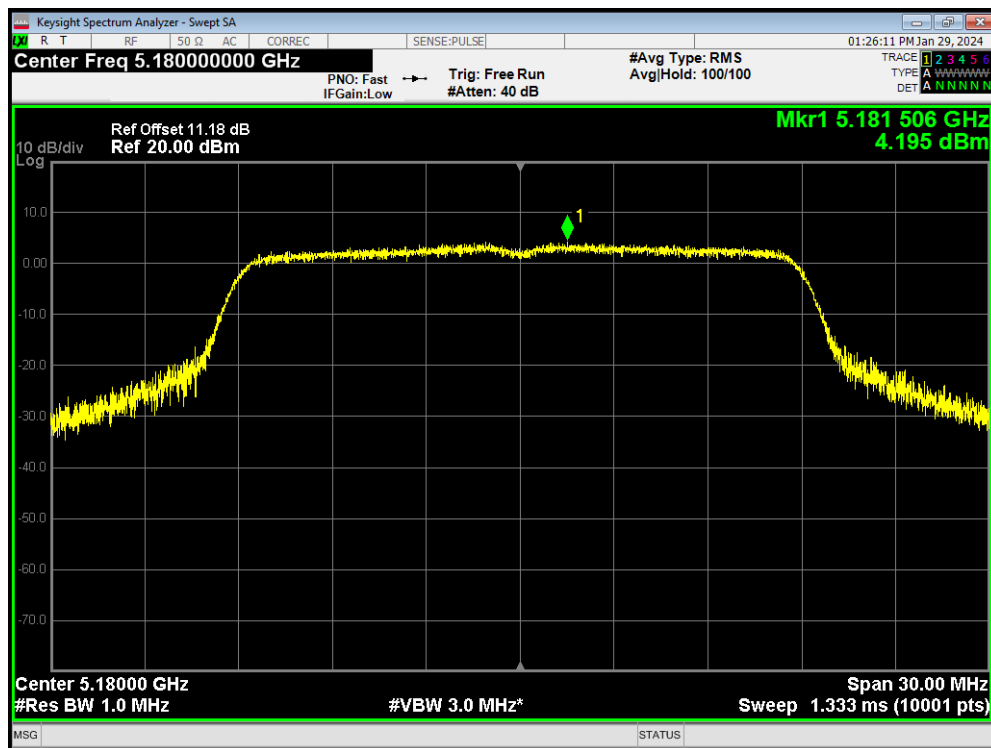
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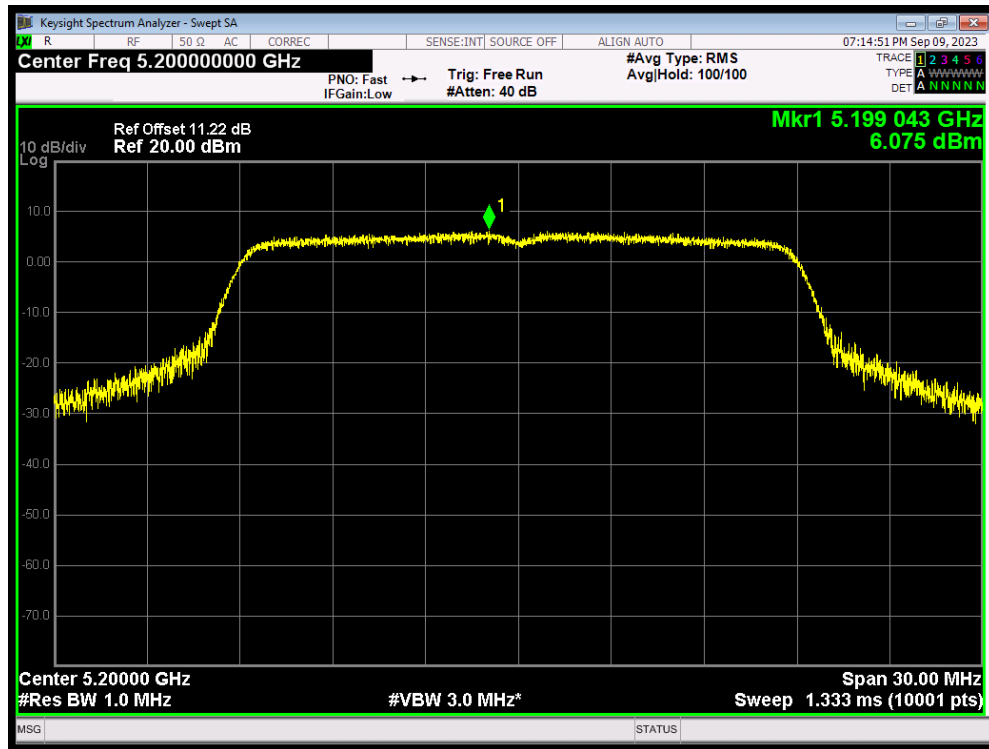
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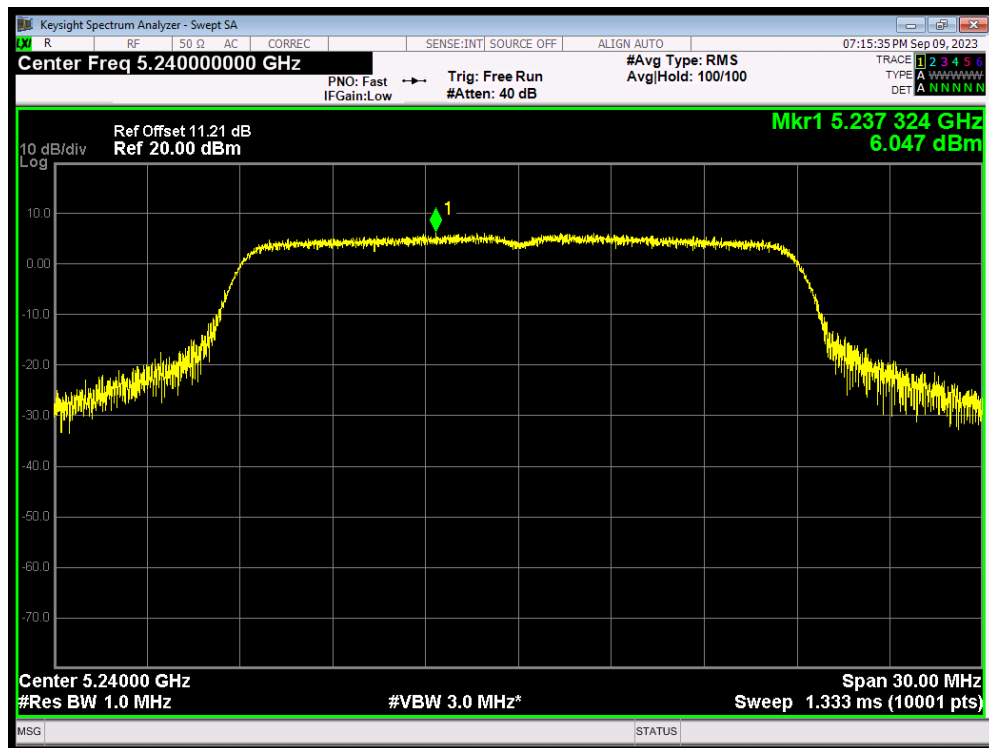
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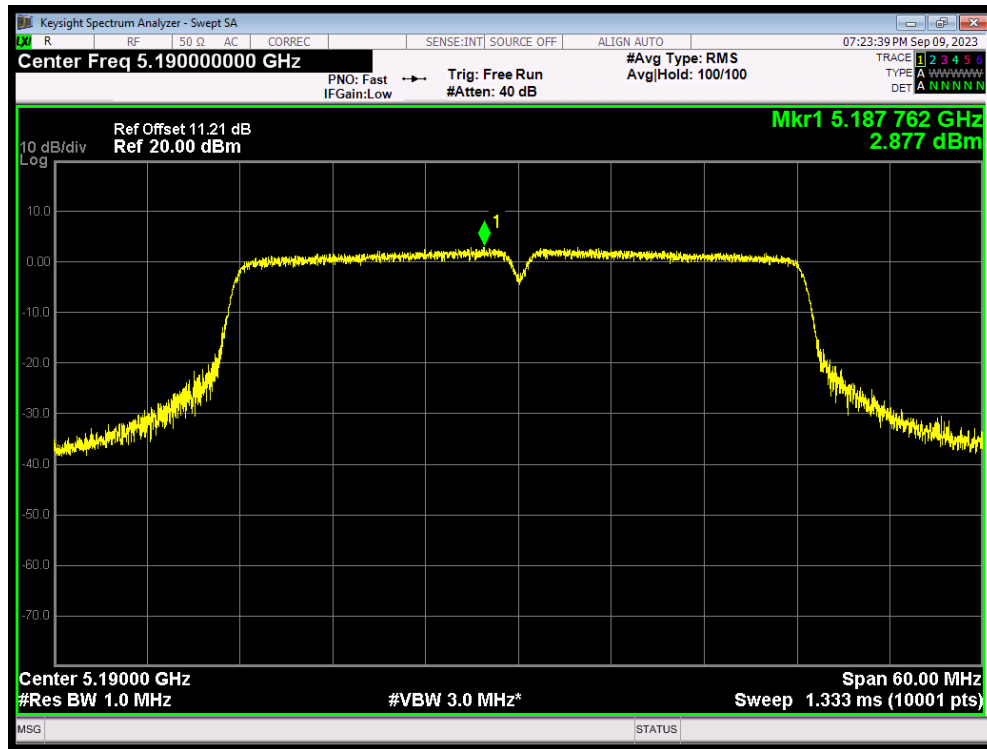
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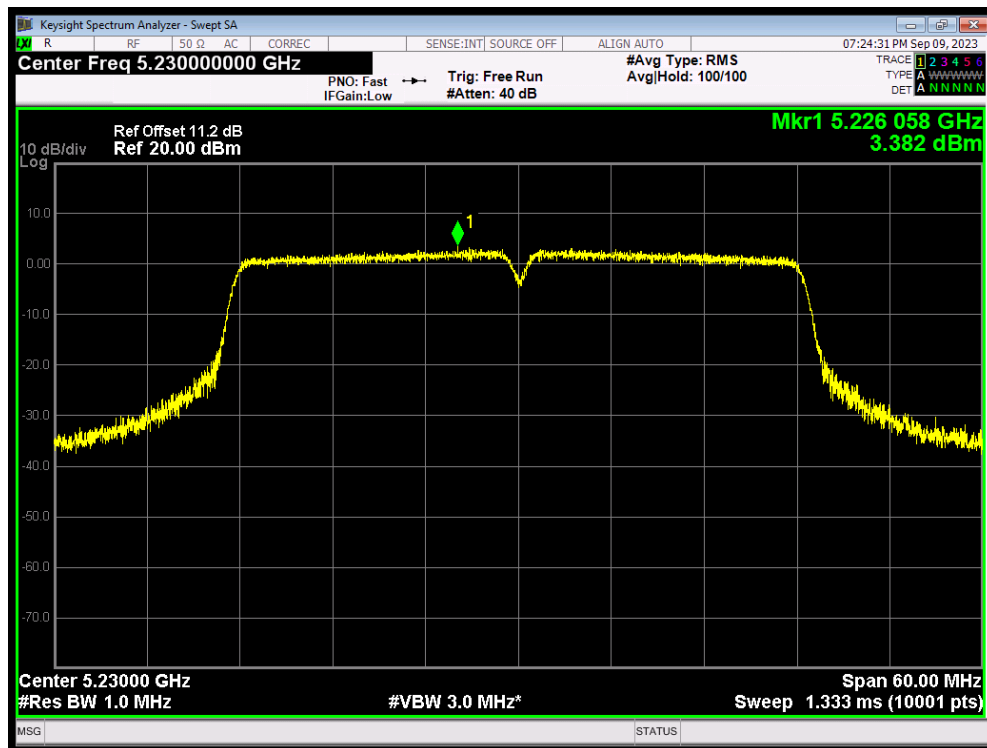
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PSD 802.11n(HT40) 5190MHz

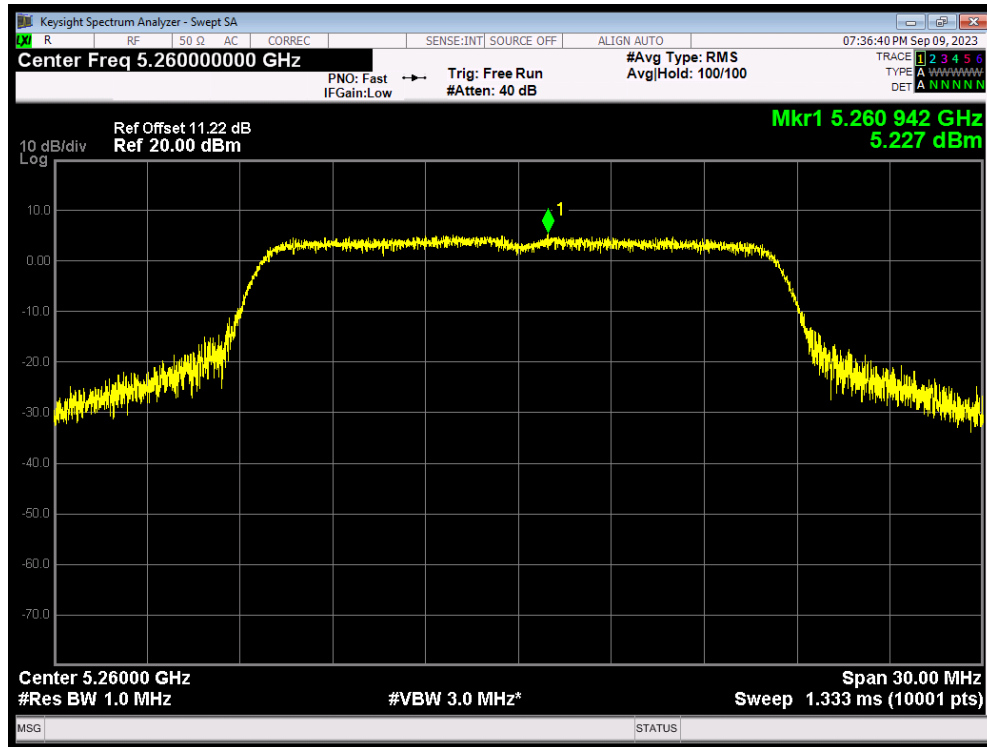


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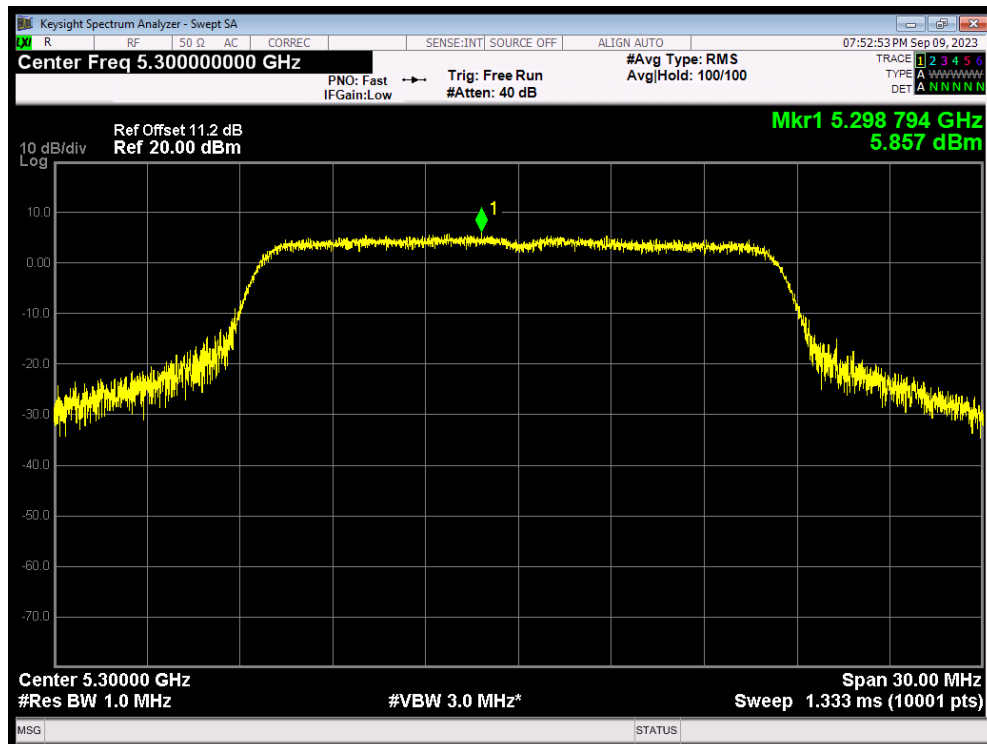


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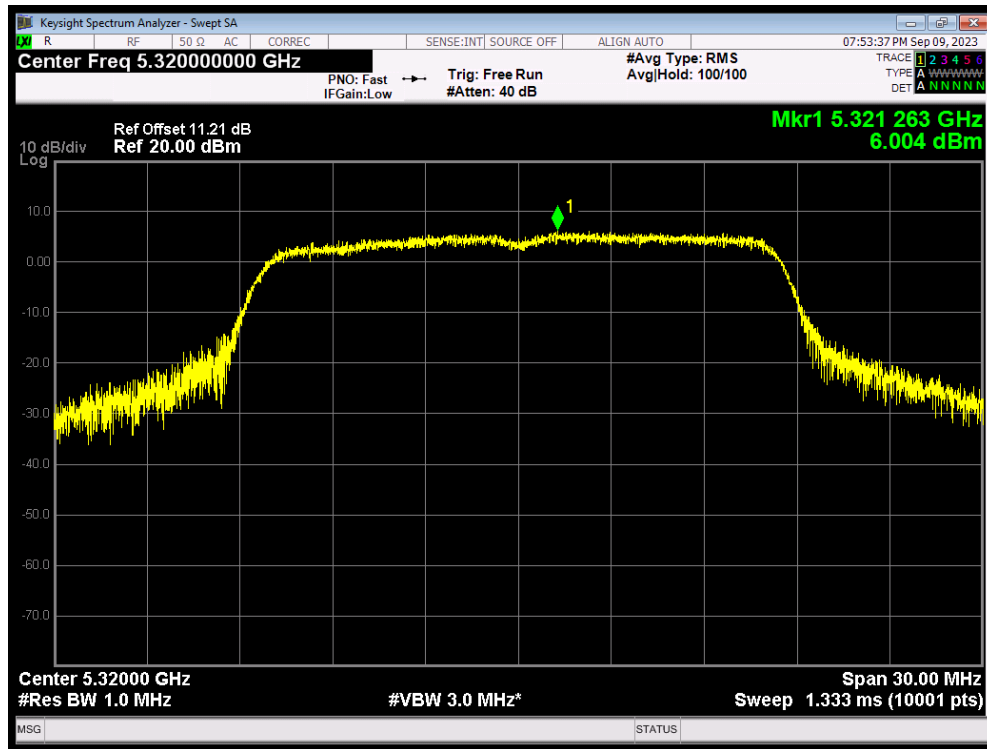
PSD 802.11a 5260MHz



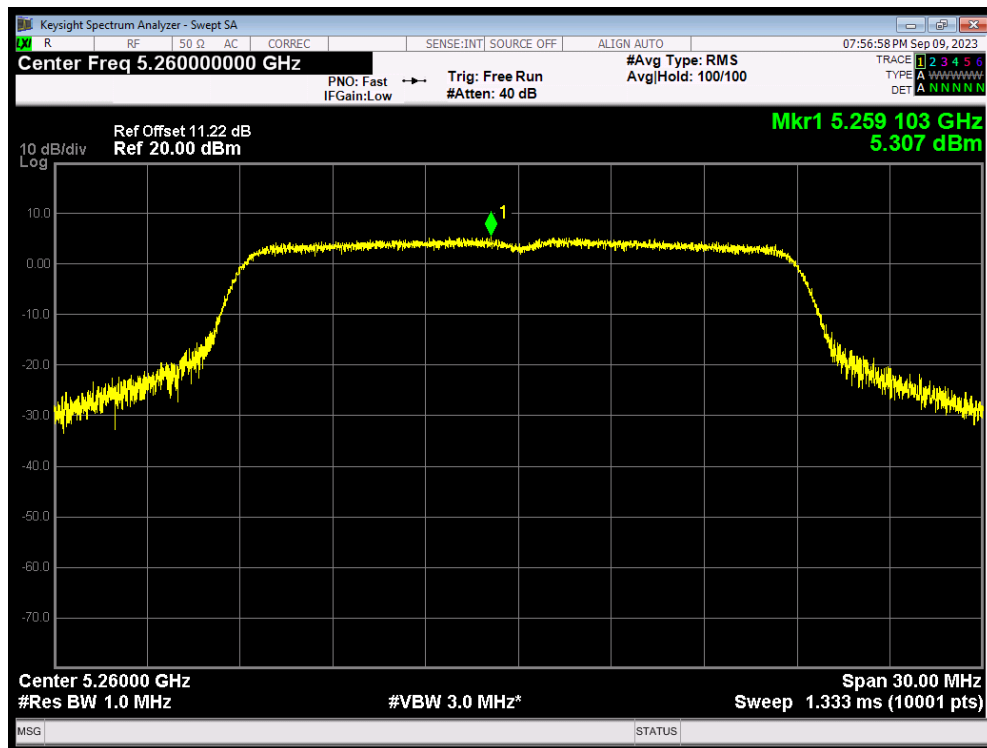
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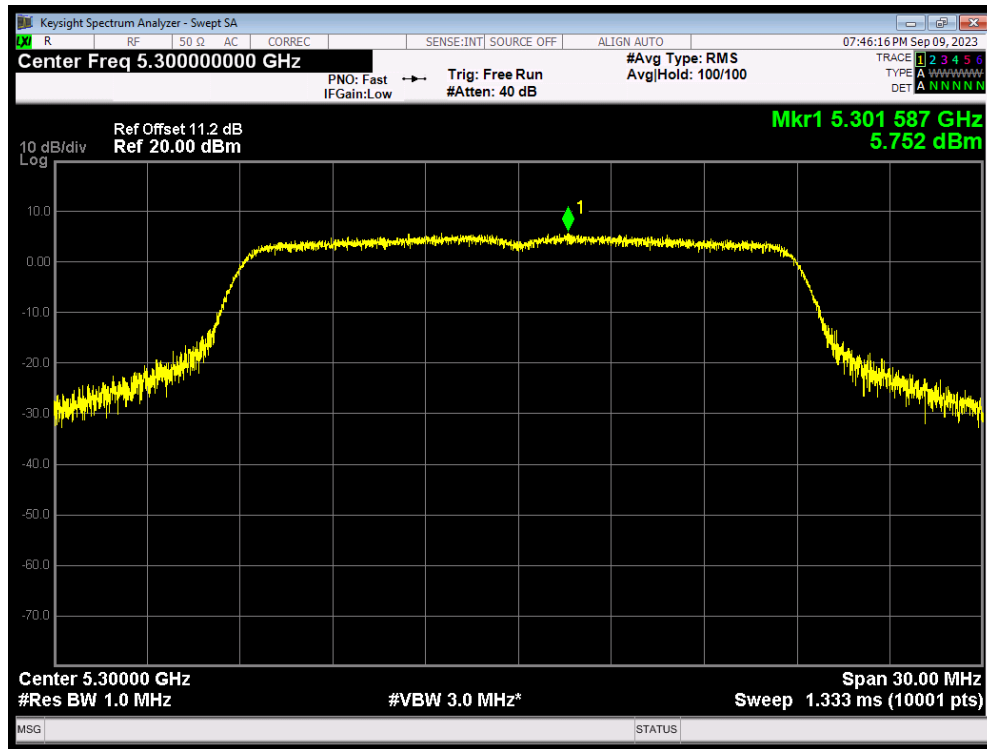
PSD 802.11a 5320MHz



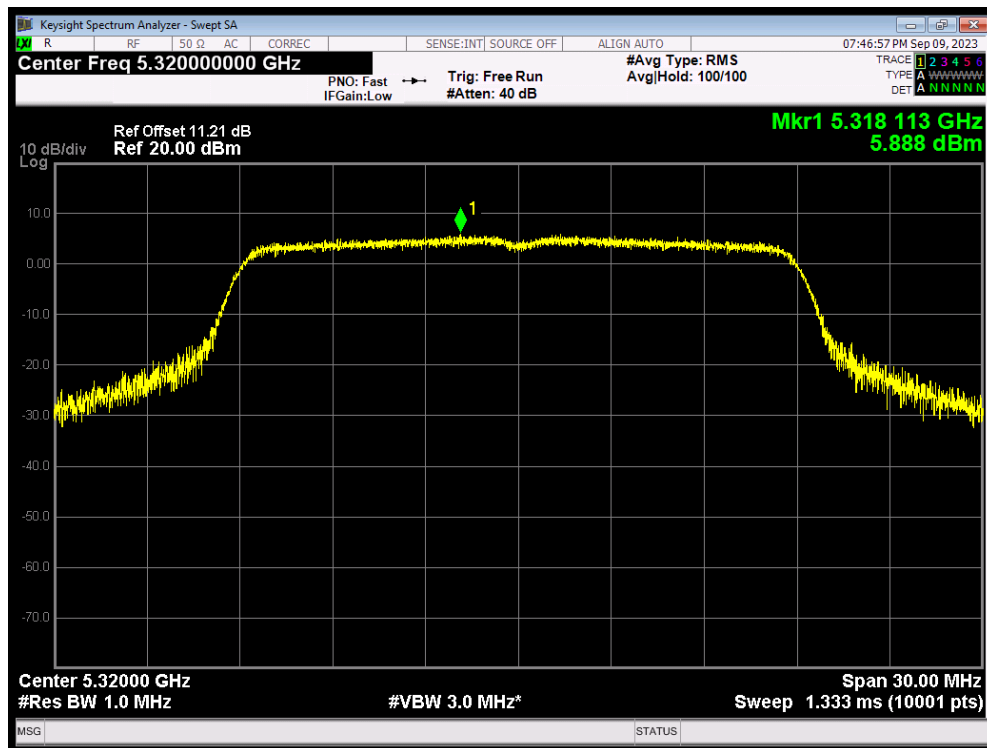
PSD 802.11ac(VHT20) 5260MHz



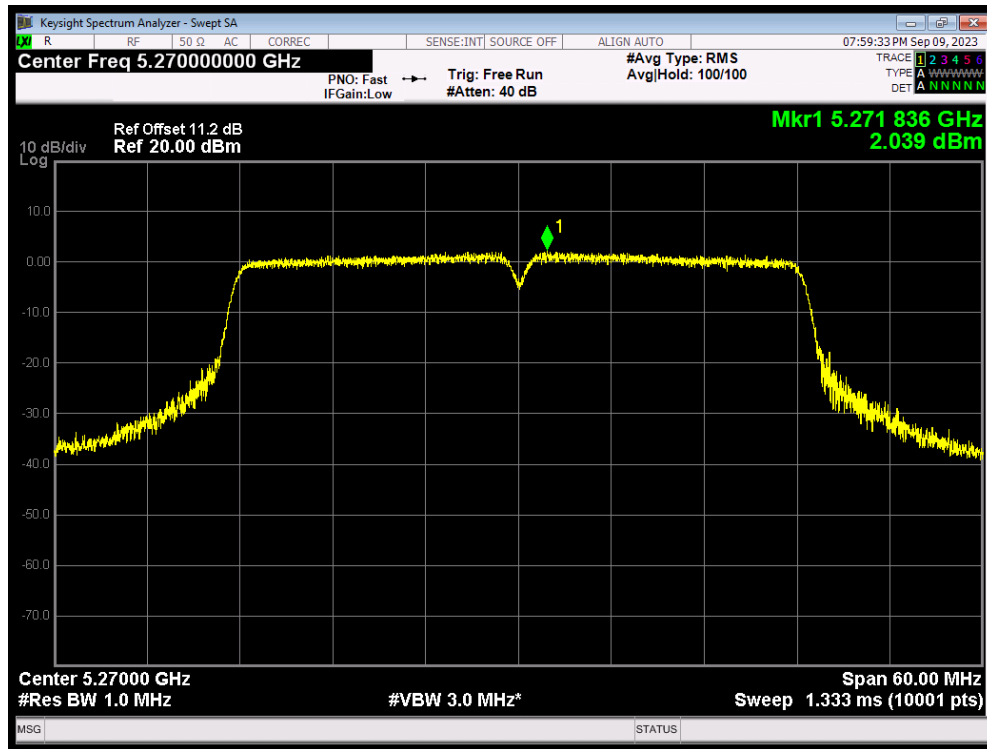
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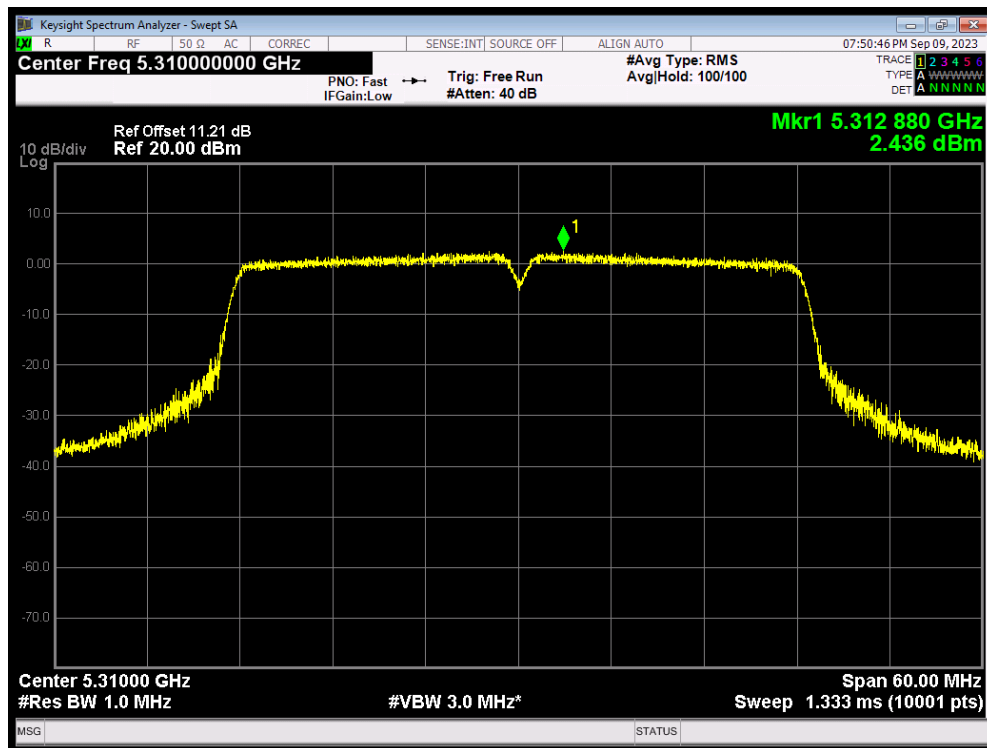
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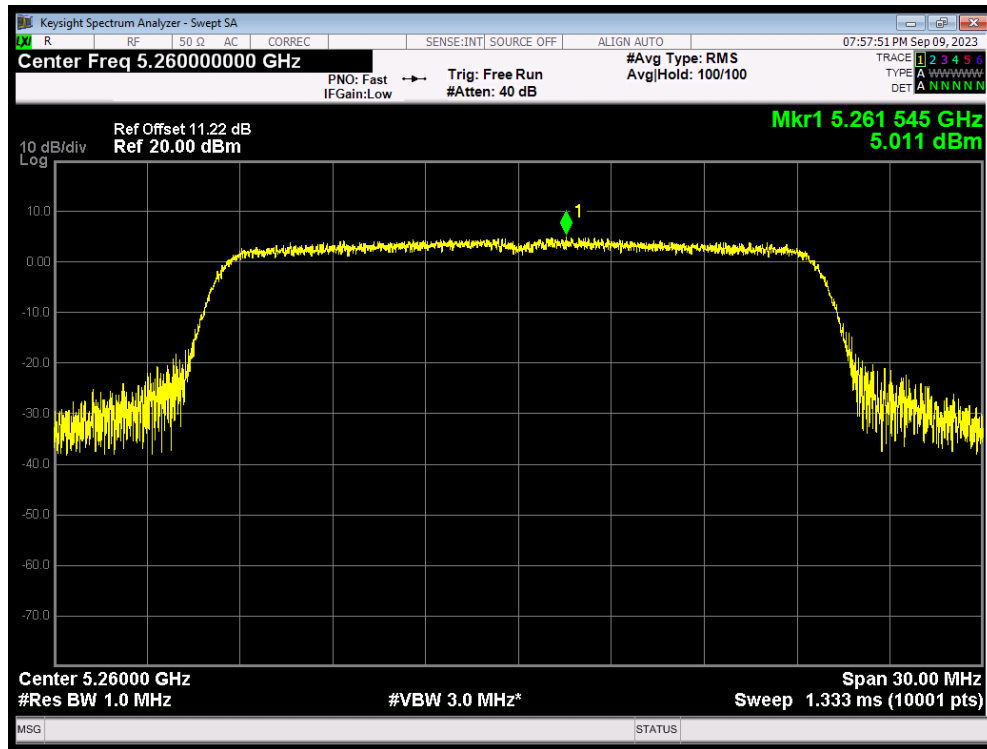
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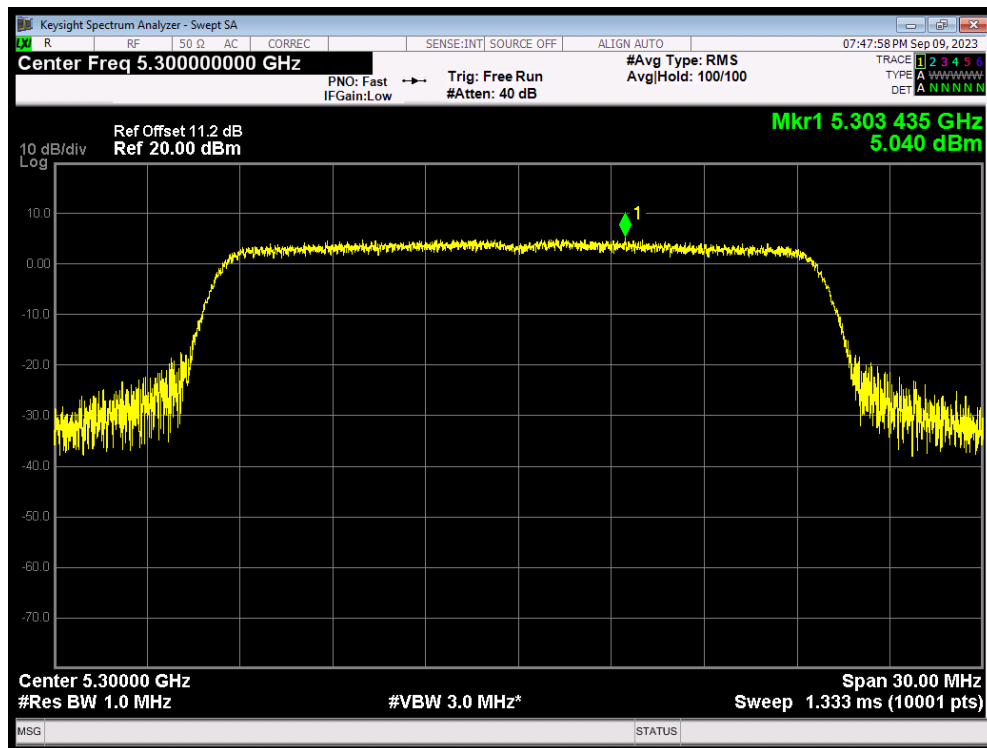
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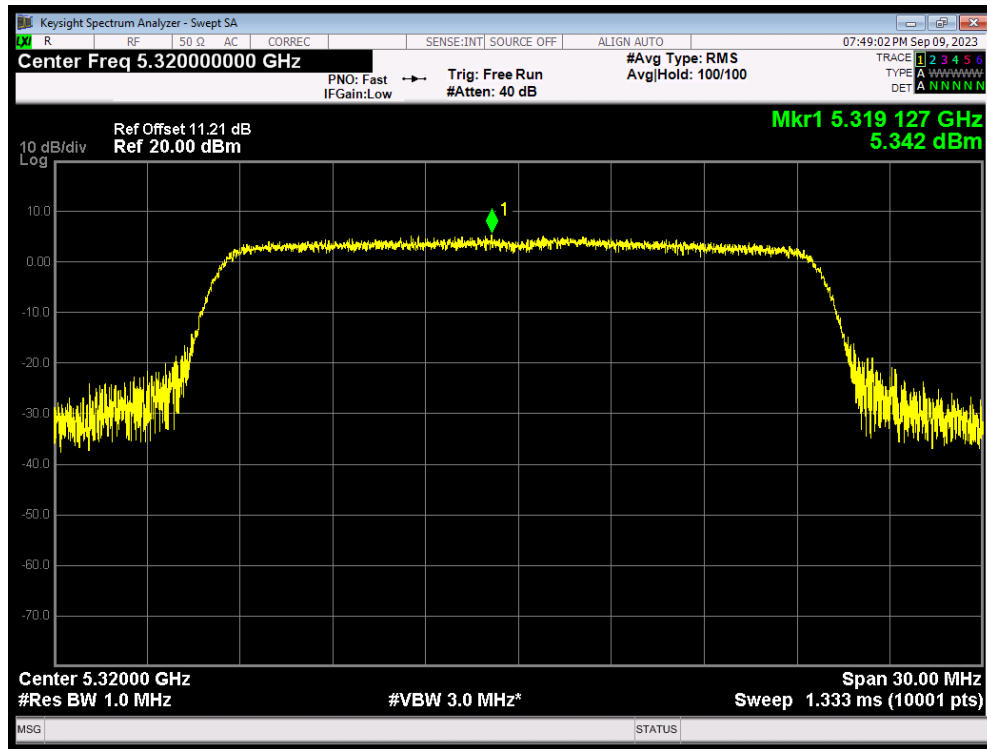
PSD 802.11ax(HE20) 5260MHz



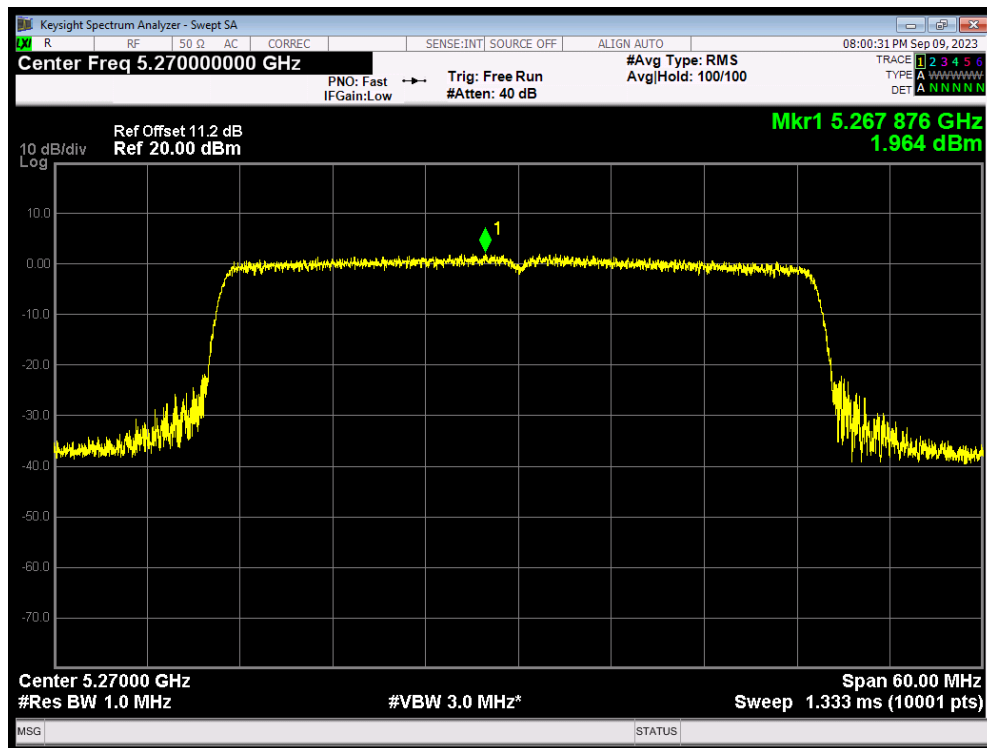
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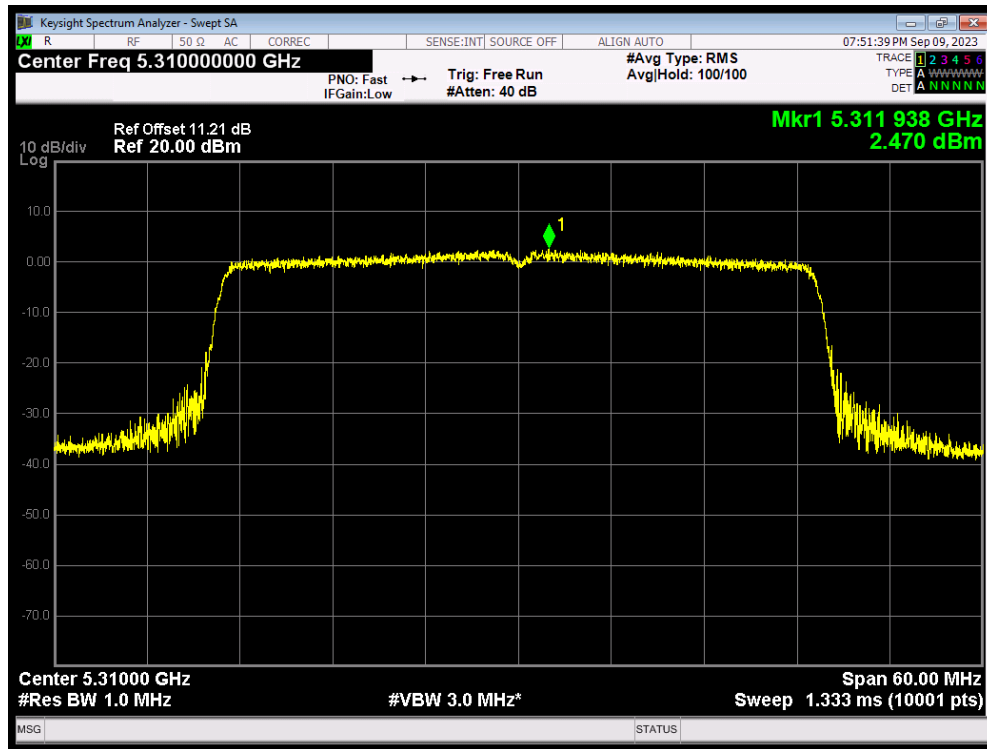
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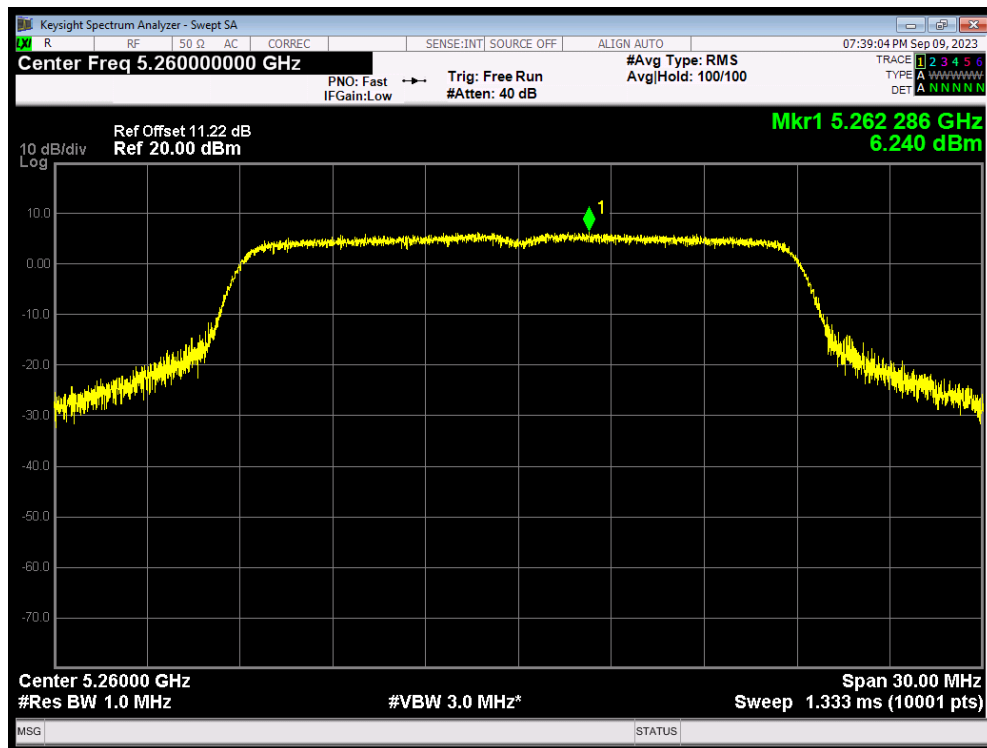
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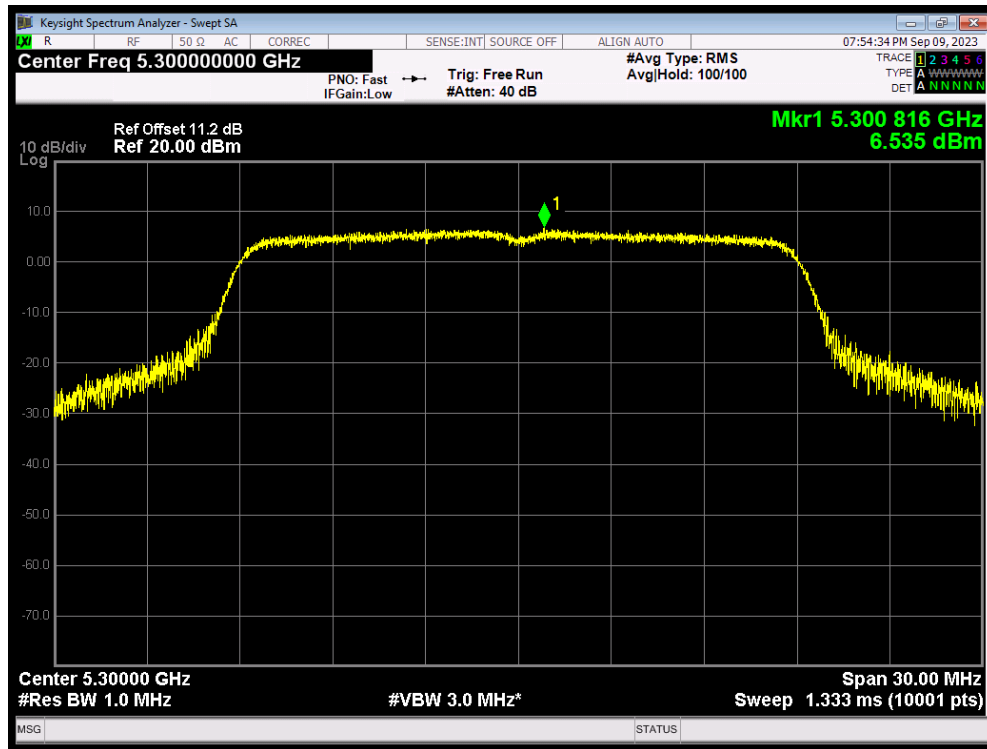
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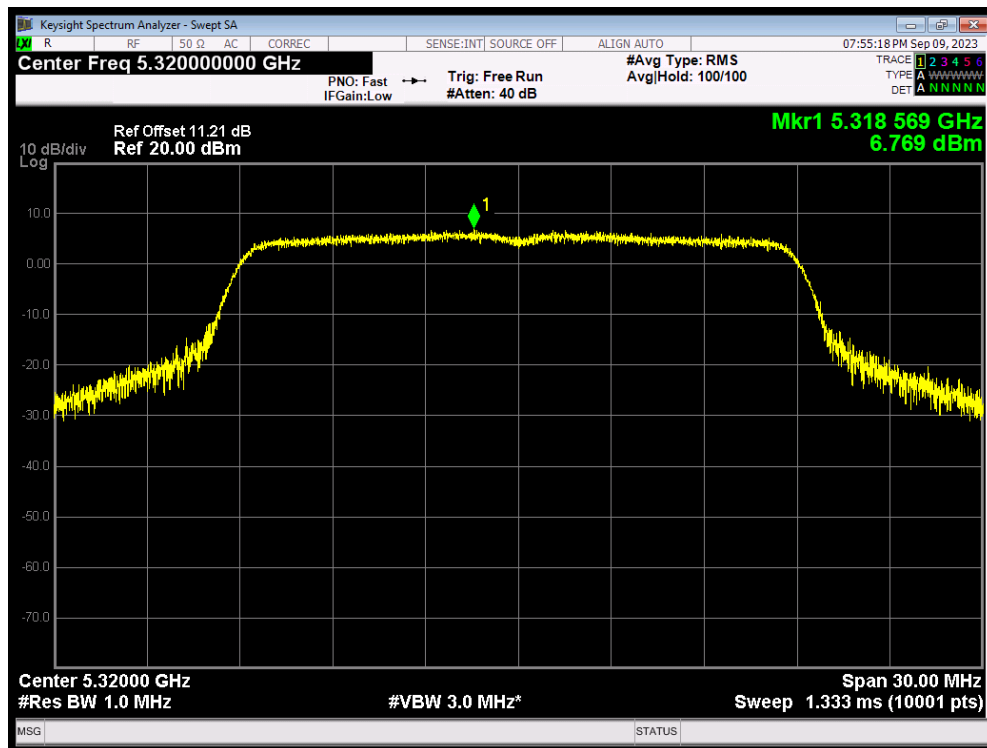
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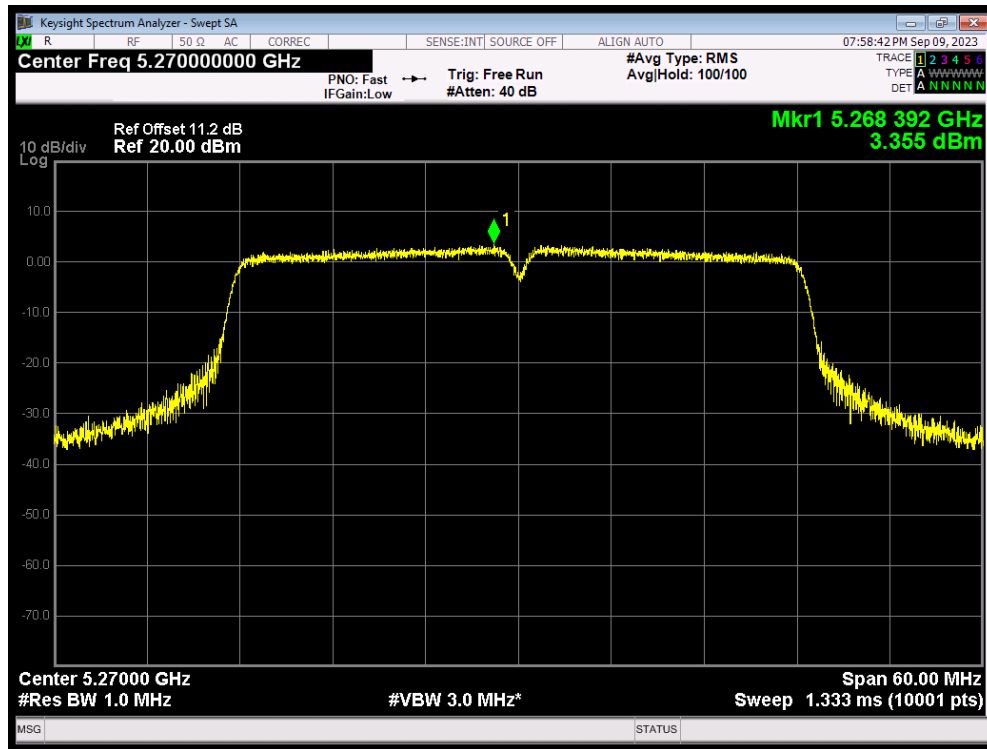
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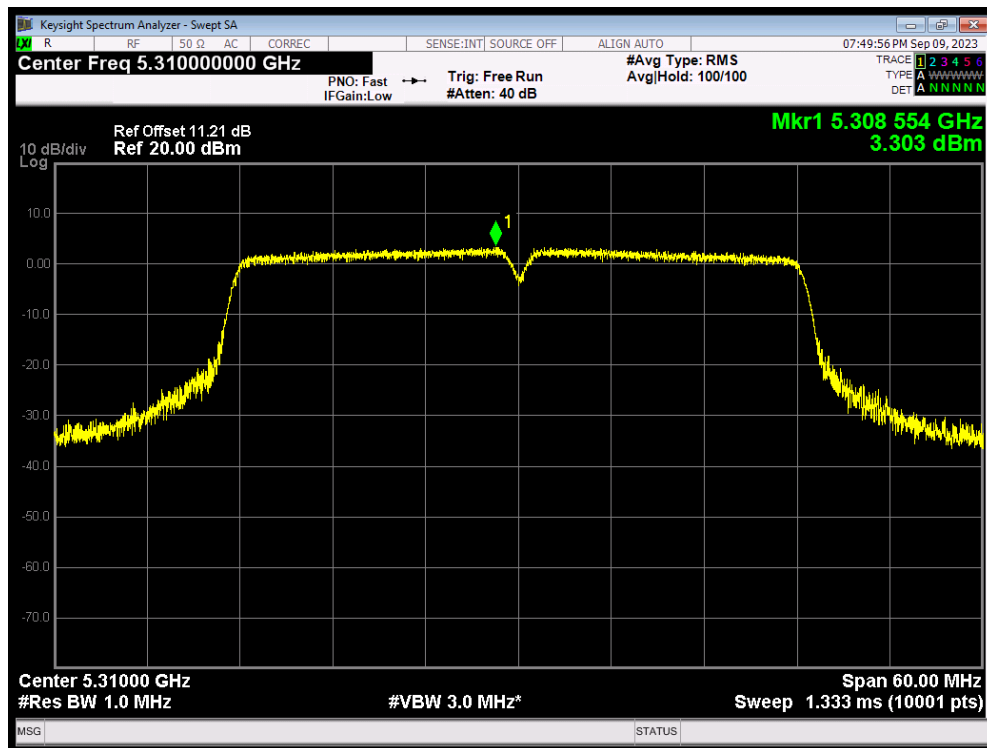
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PSD 802.11n(HT40) 5270MHz

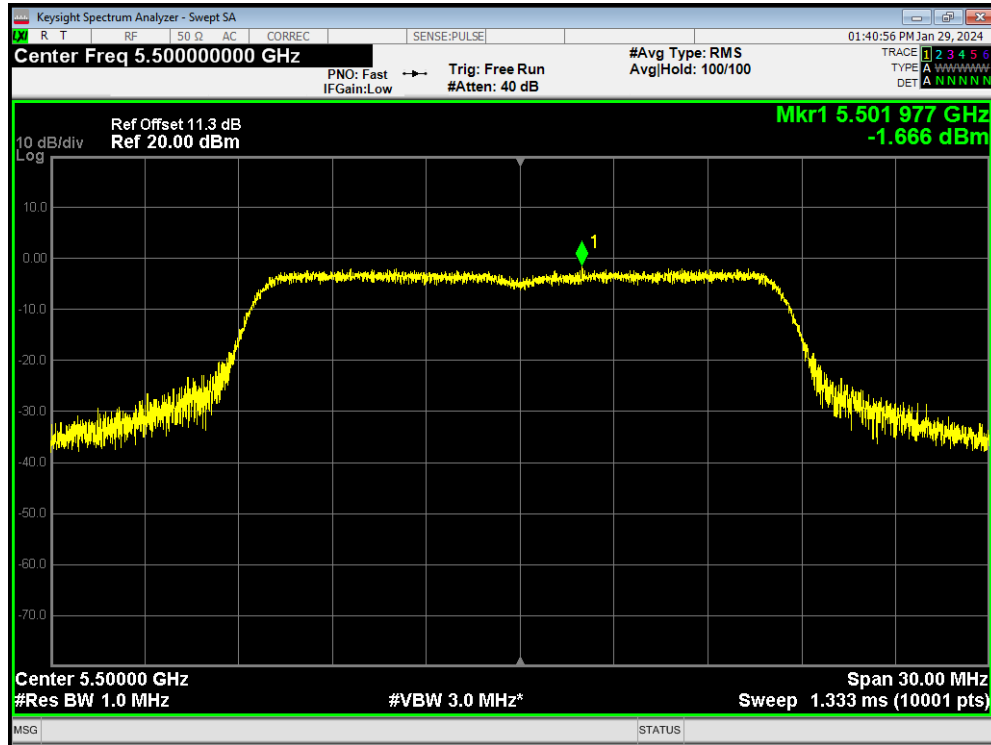


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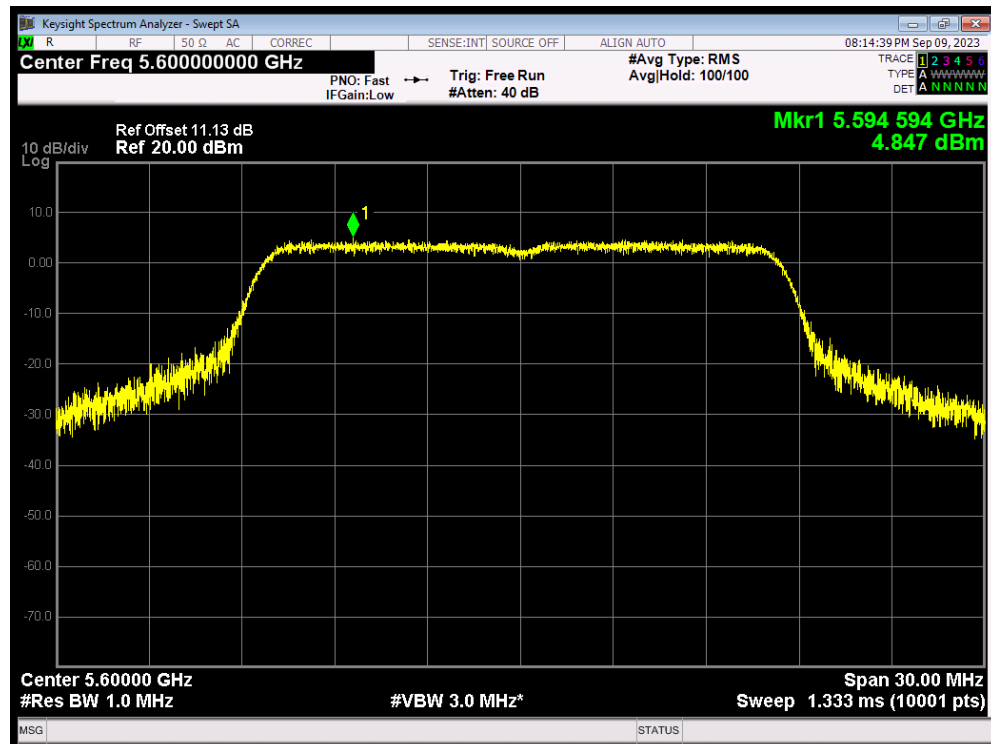


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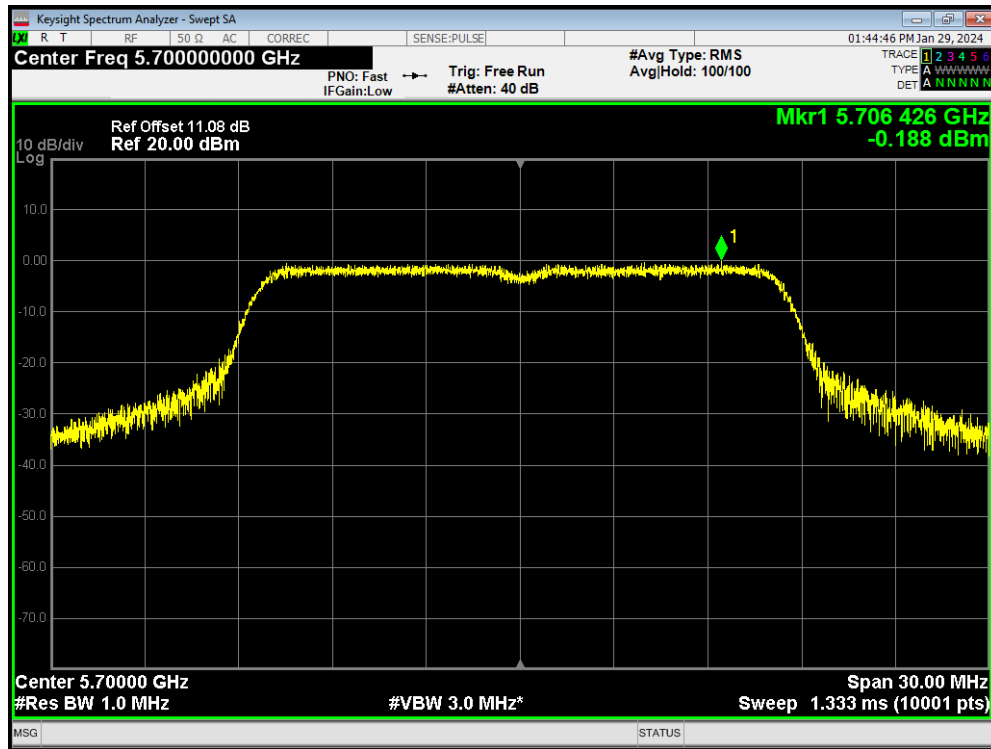
PSD 802.11a 5500MHz



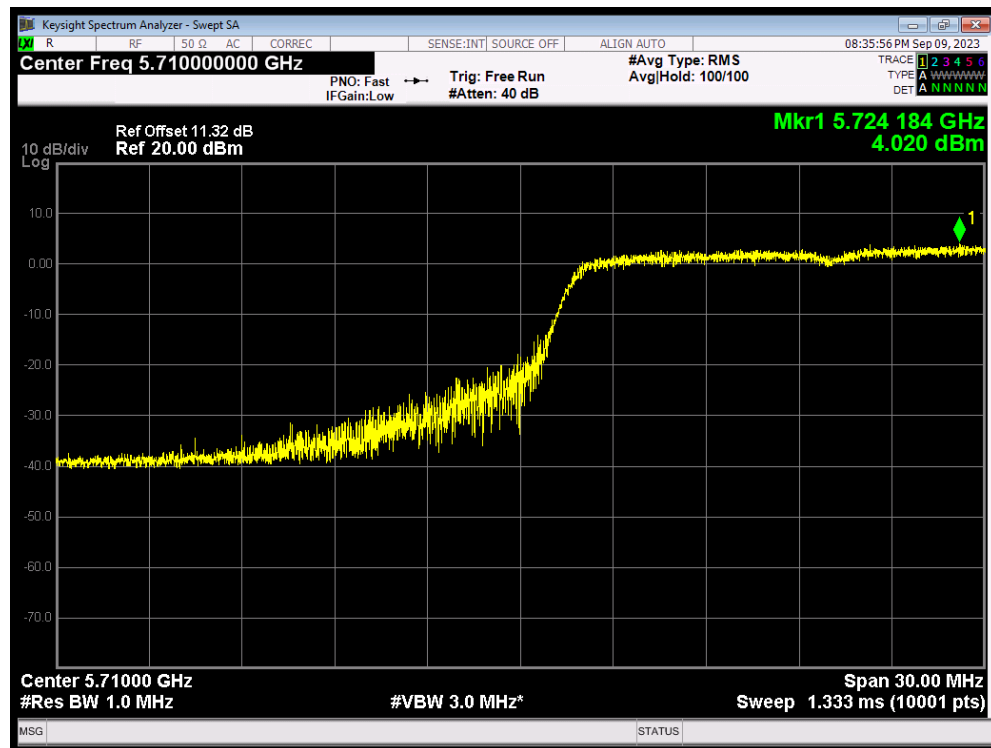
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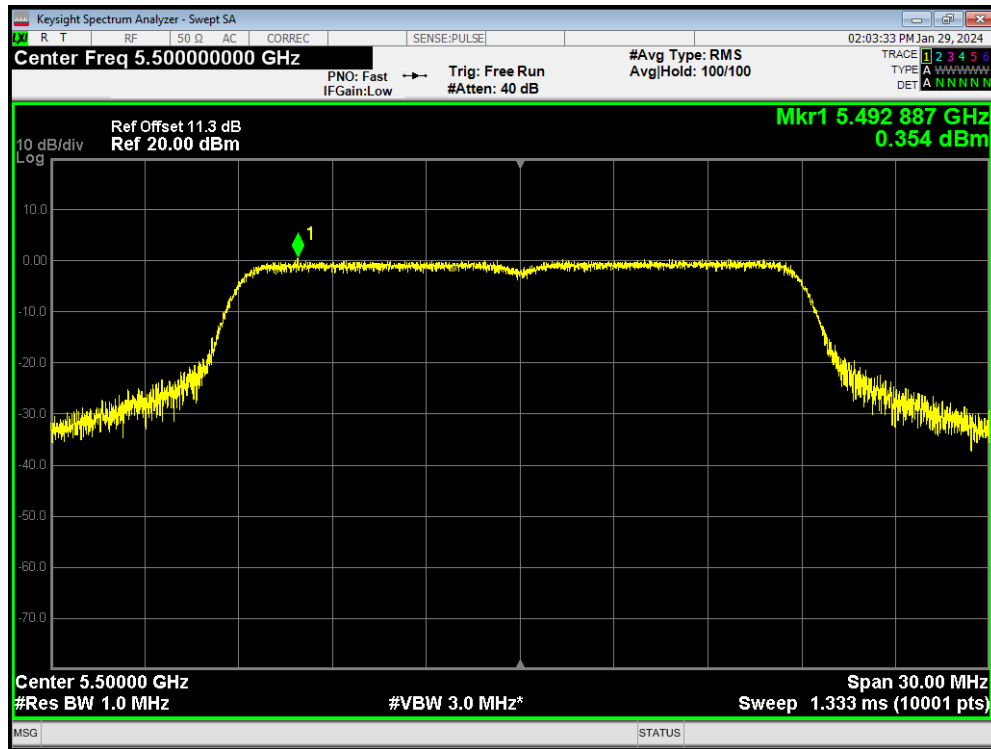
PSD 802.11a 5700MHz



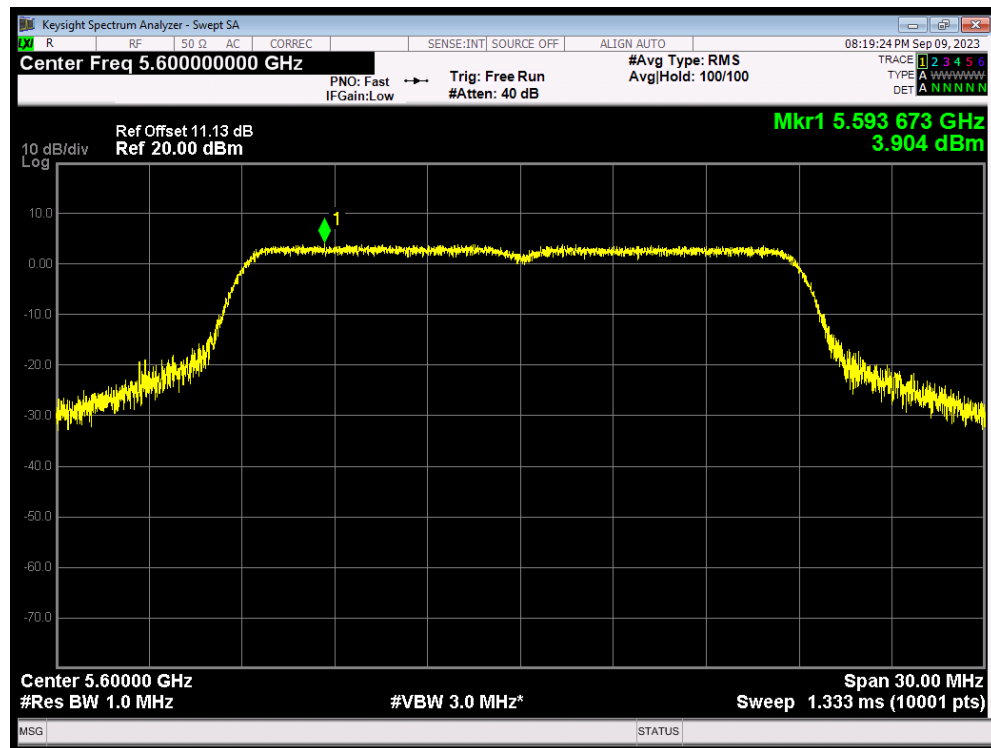
PSD 802.11a 5720MHz



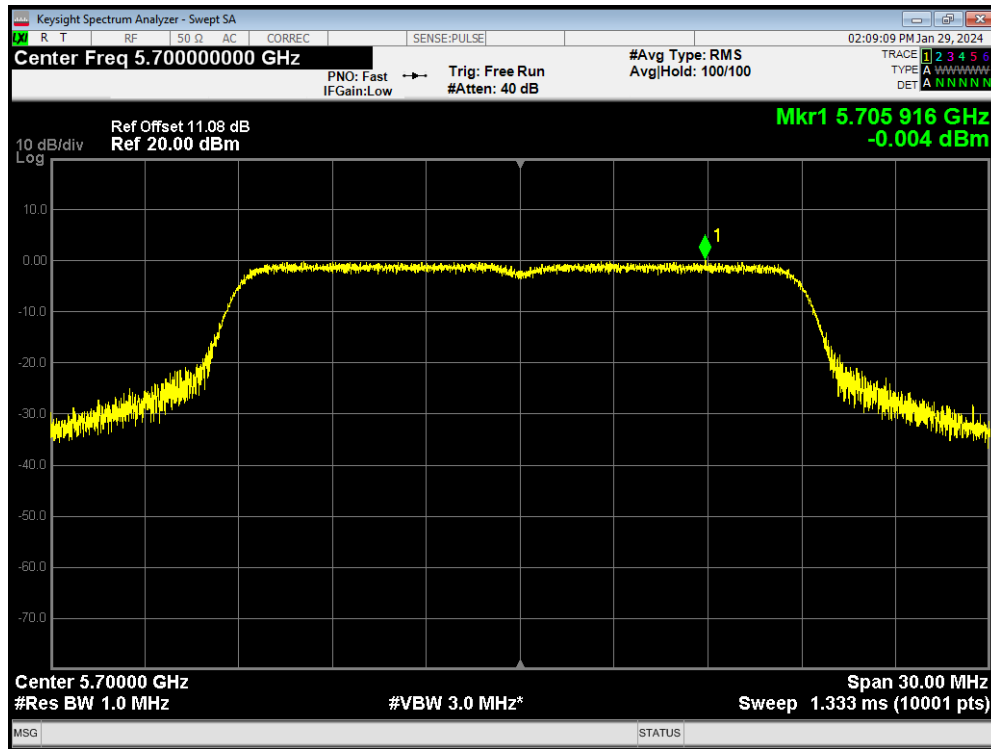
PSD 802.11ac(VHT20) 5500MHz



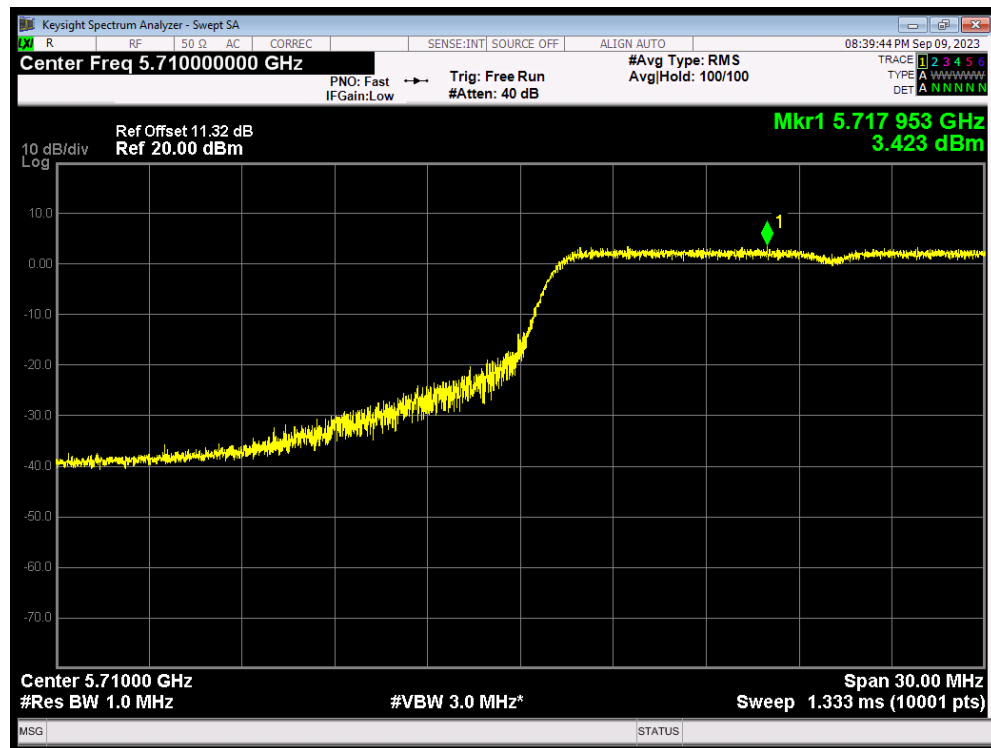
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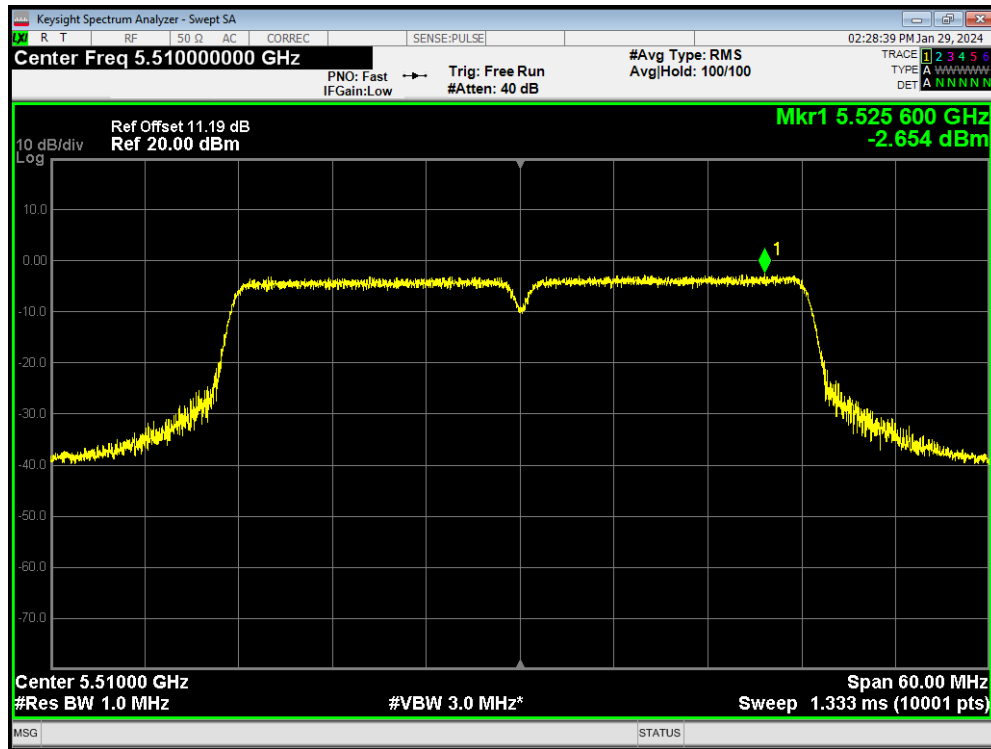
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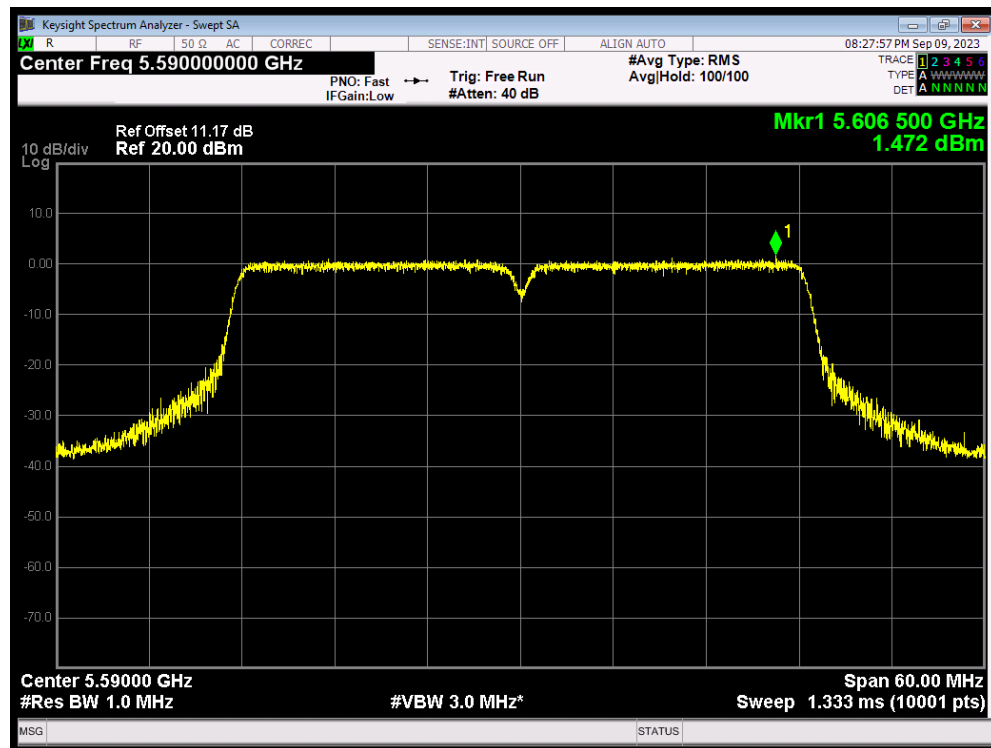
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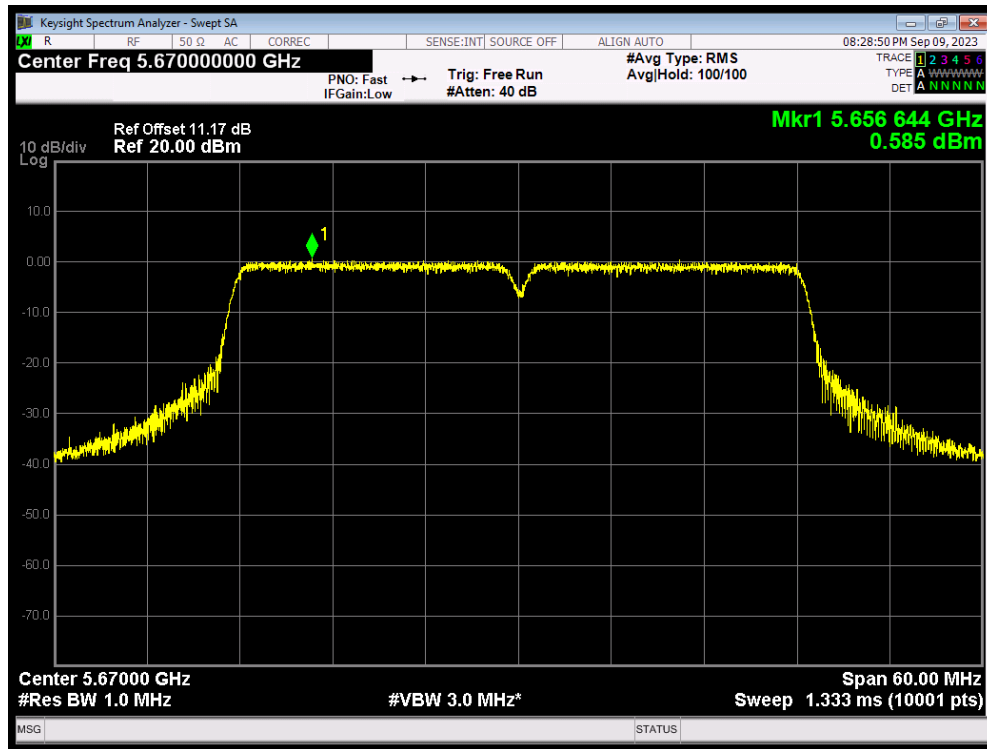
PSD 802.11ac(VHT40) 5510MHz



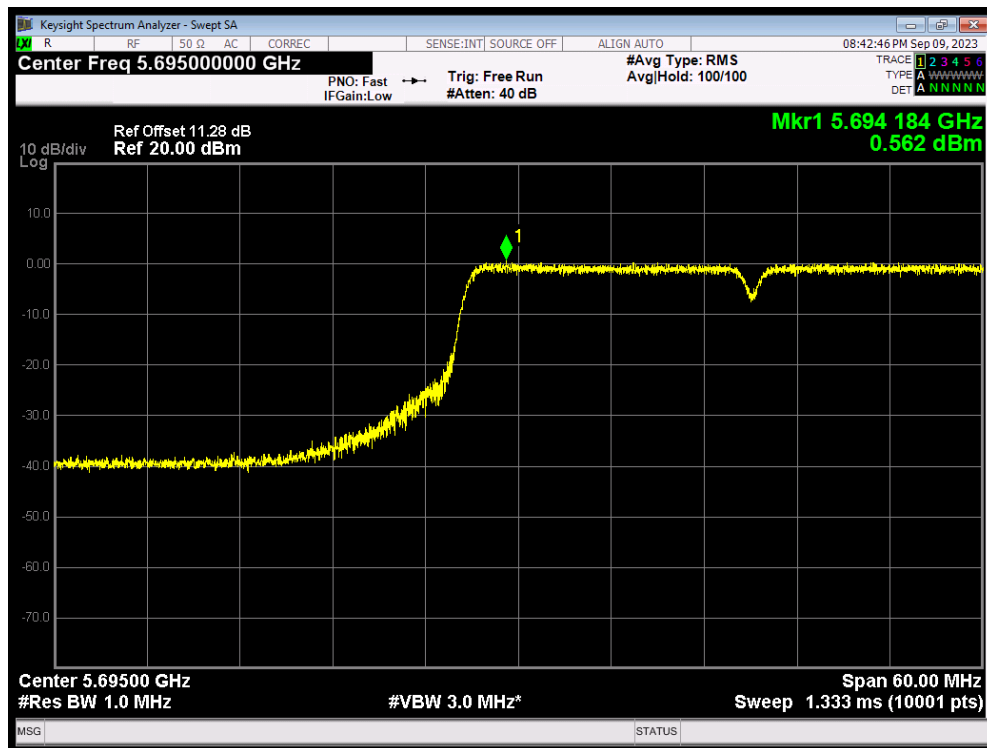
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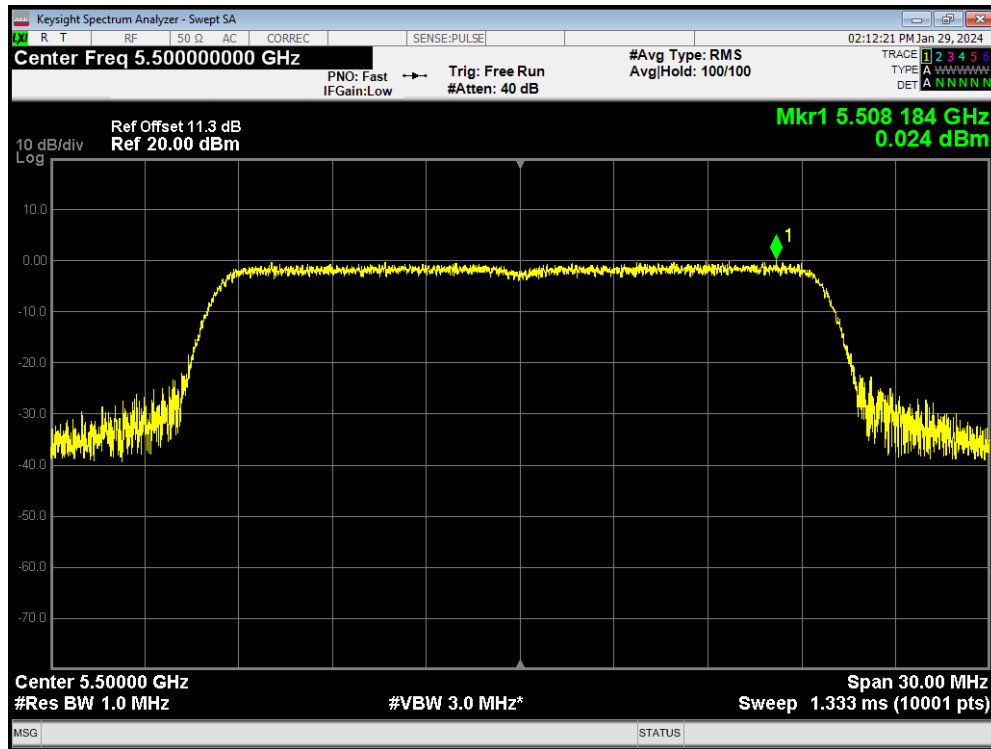
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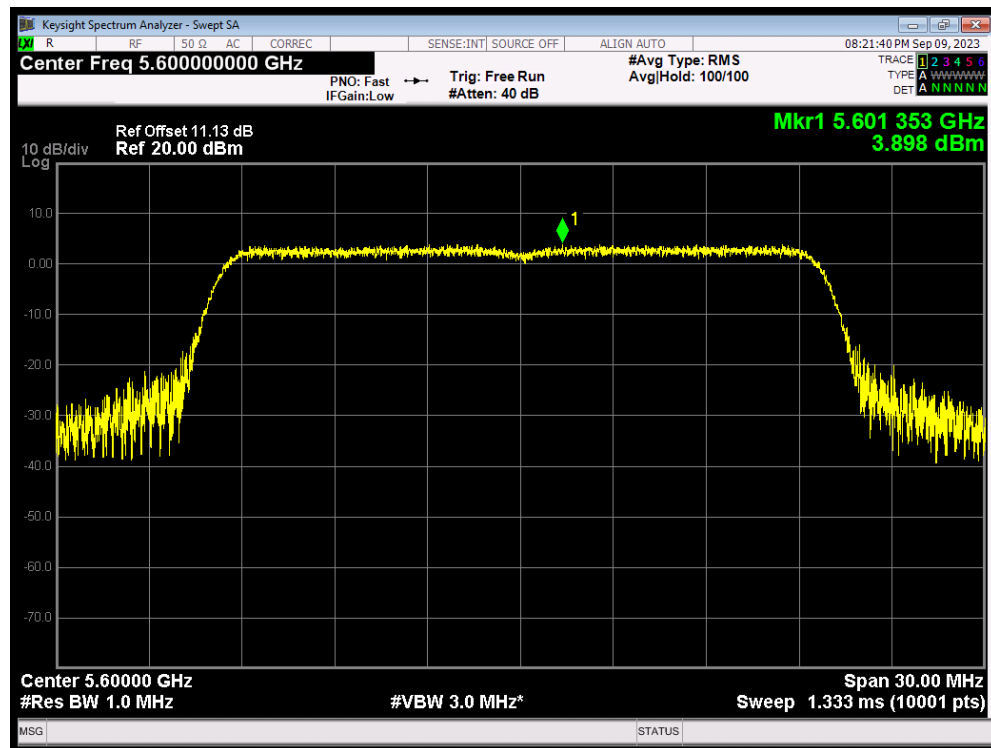
PSD 802.11ac(VHT40) 5710MHz



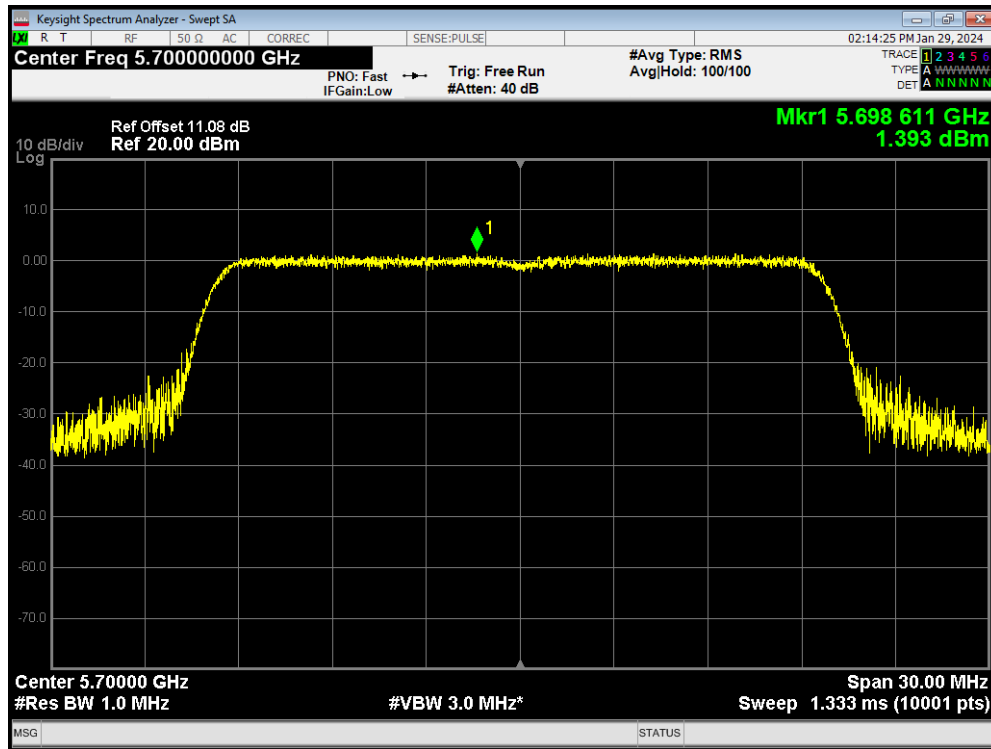
PSD 802.11ax(HE20) 5500MHz



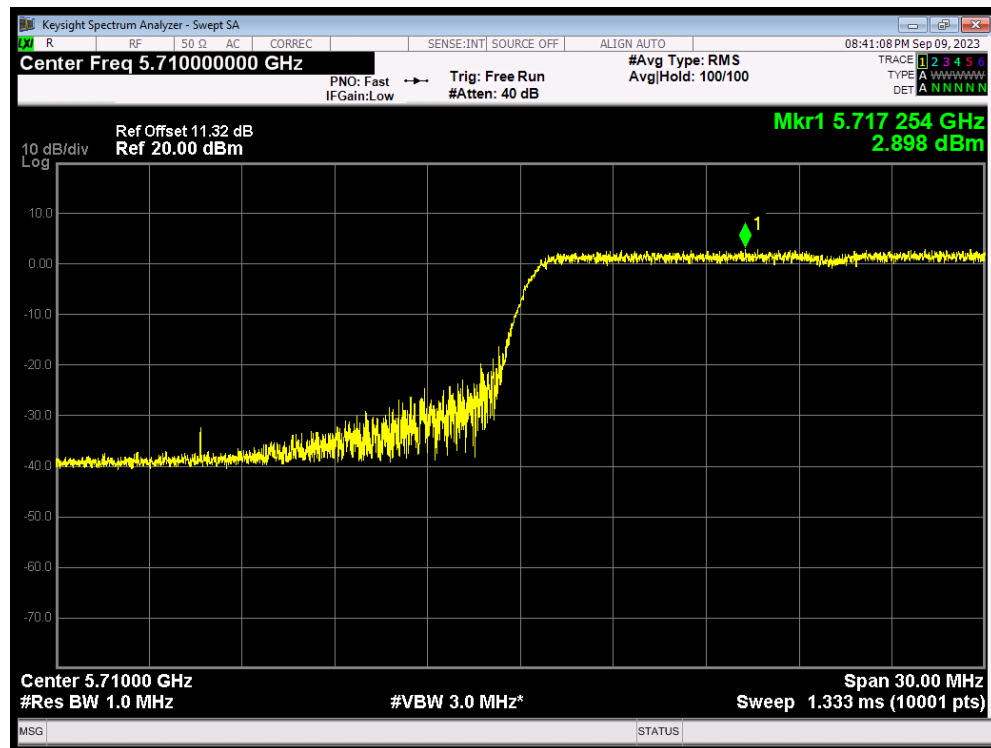
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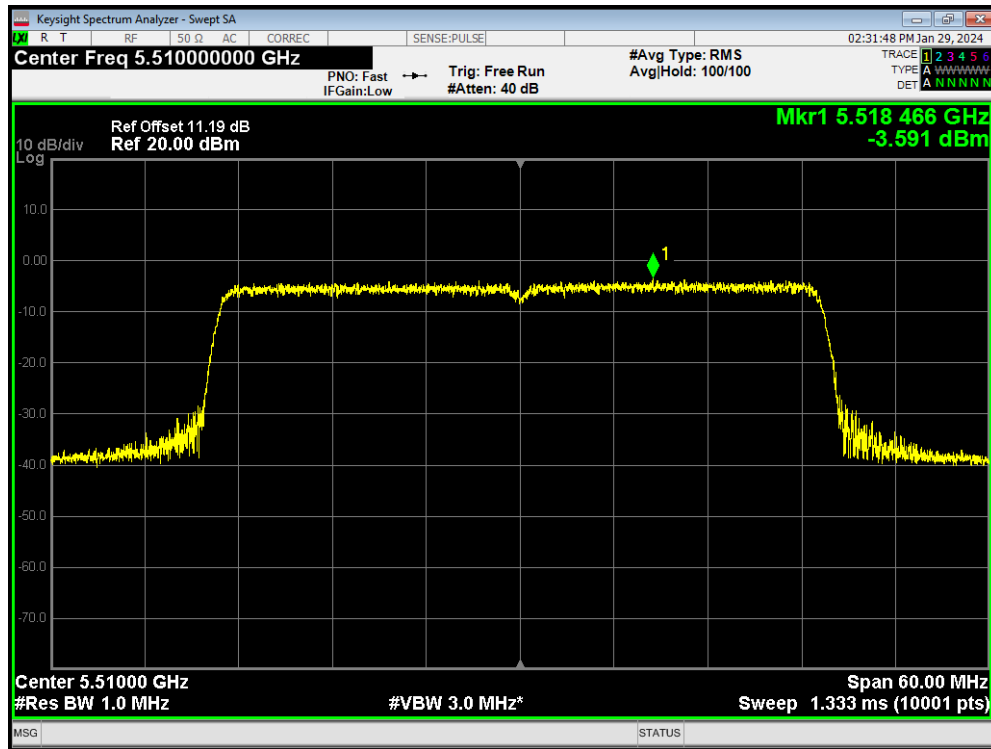
PSD 802.11ax(HE20) 5700MHz



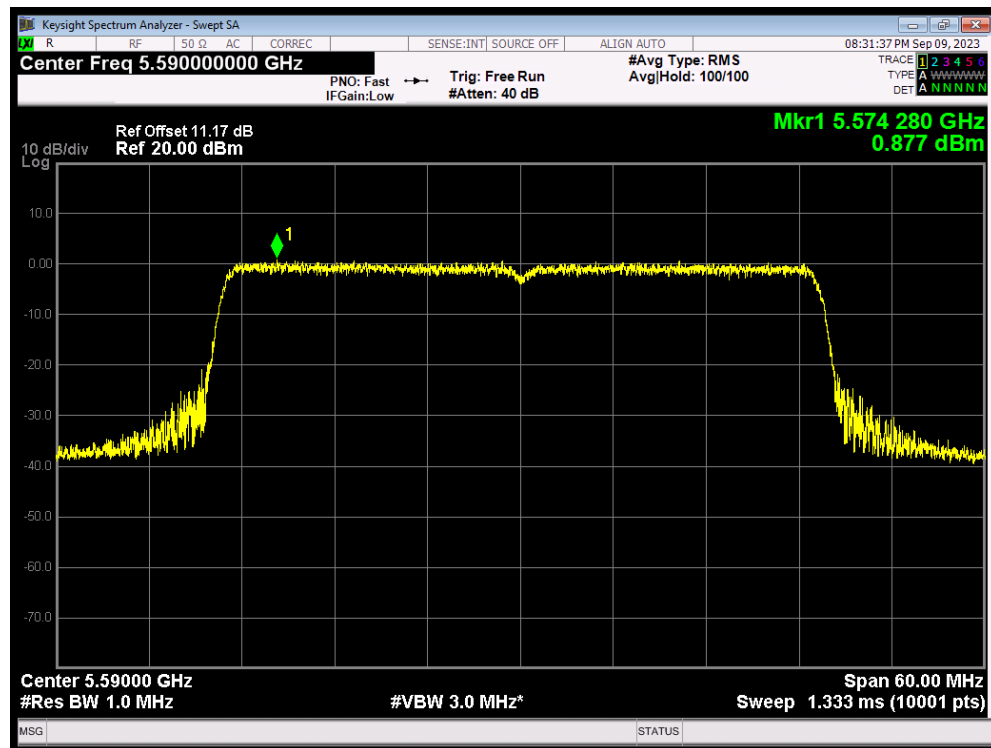
PSD 802.11ax(HE20) 5720MHz



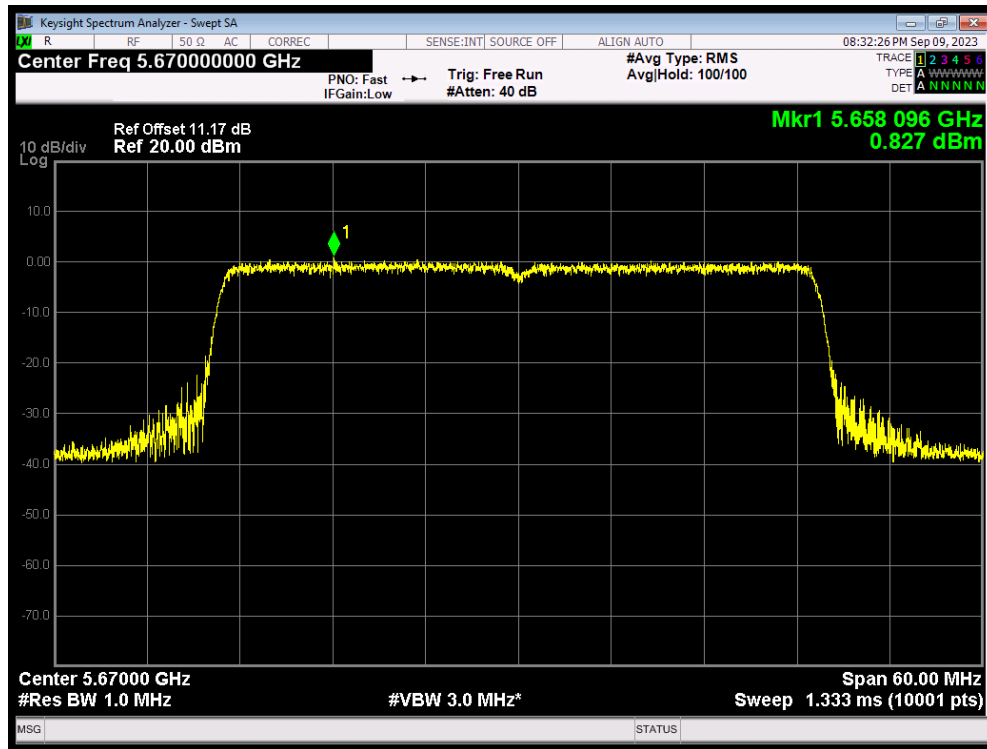
PSD 802.11ax(HE40) 5510MHz



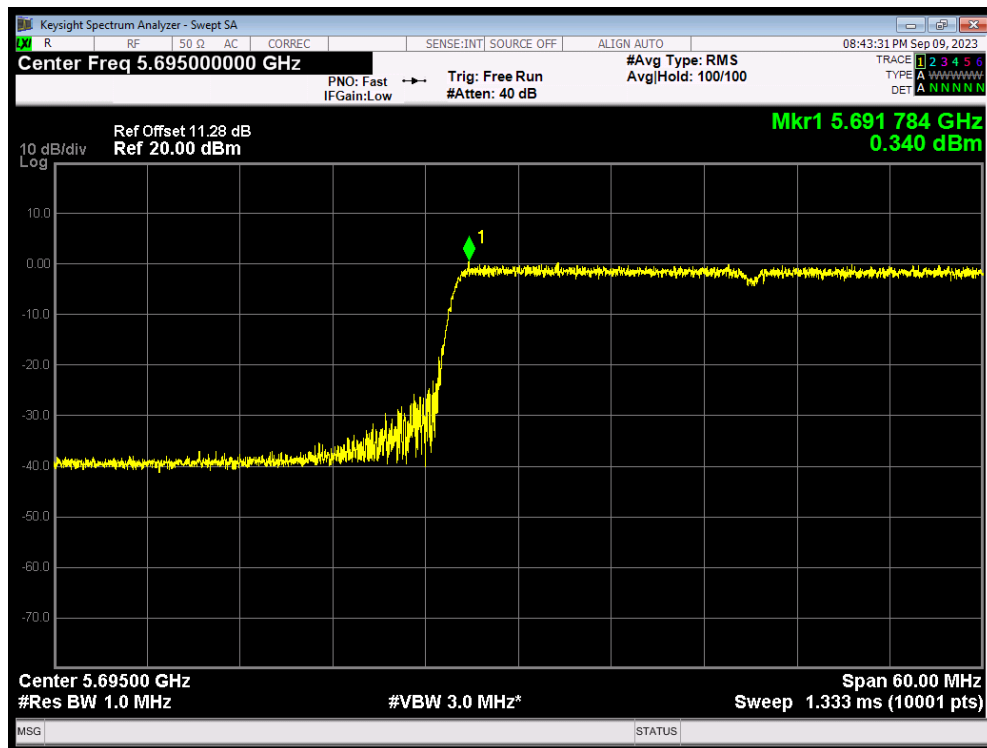
PSD 802.11ax(HE40) 5590MHz



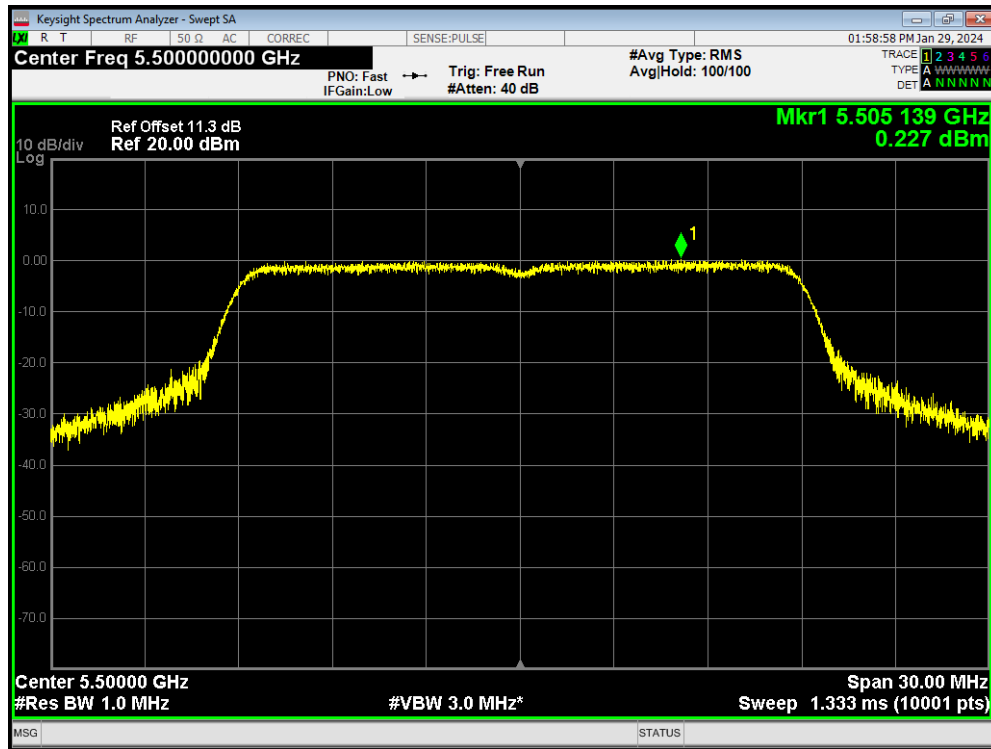
PSD 802.11ax(HE40) 5670MHz



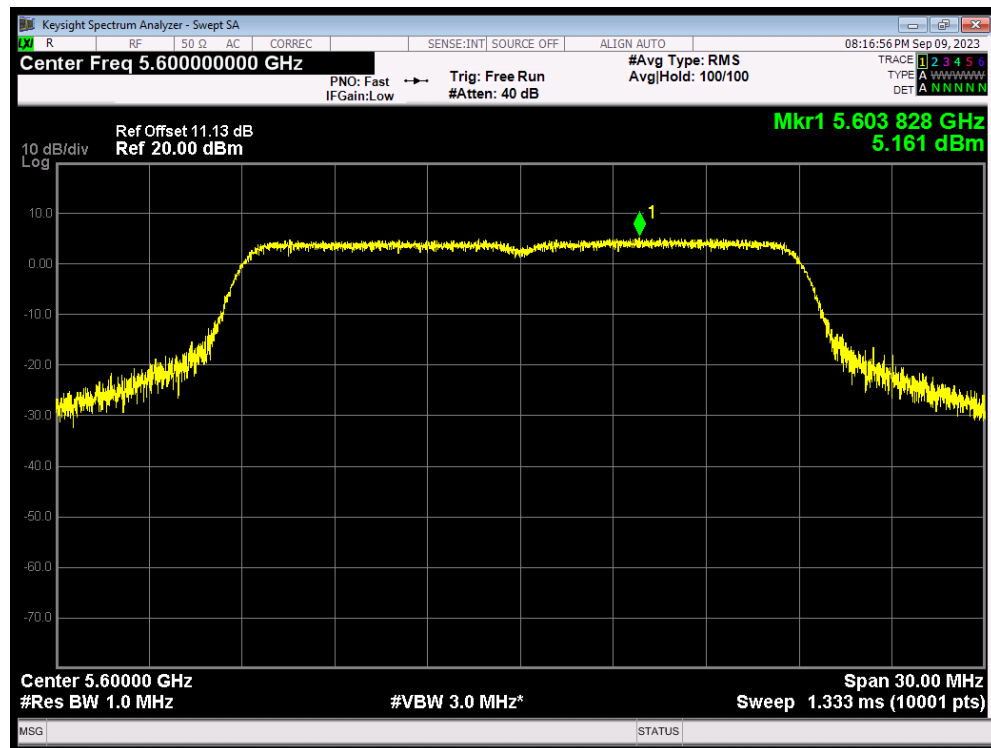
PSD 802.11ax(HE40) 5710MHz



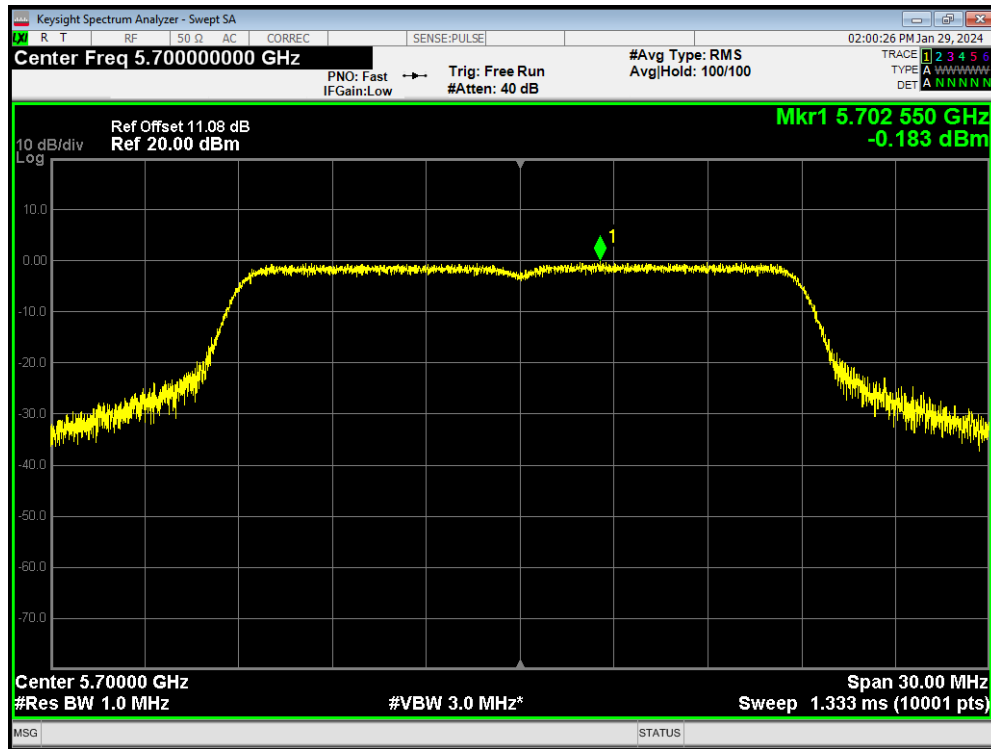
PSD 802.11n(HT20) 5500MHz



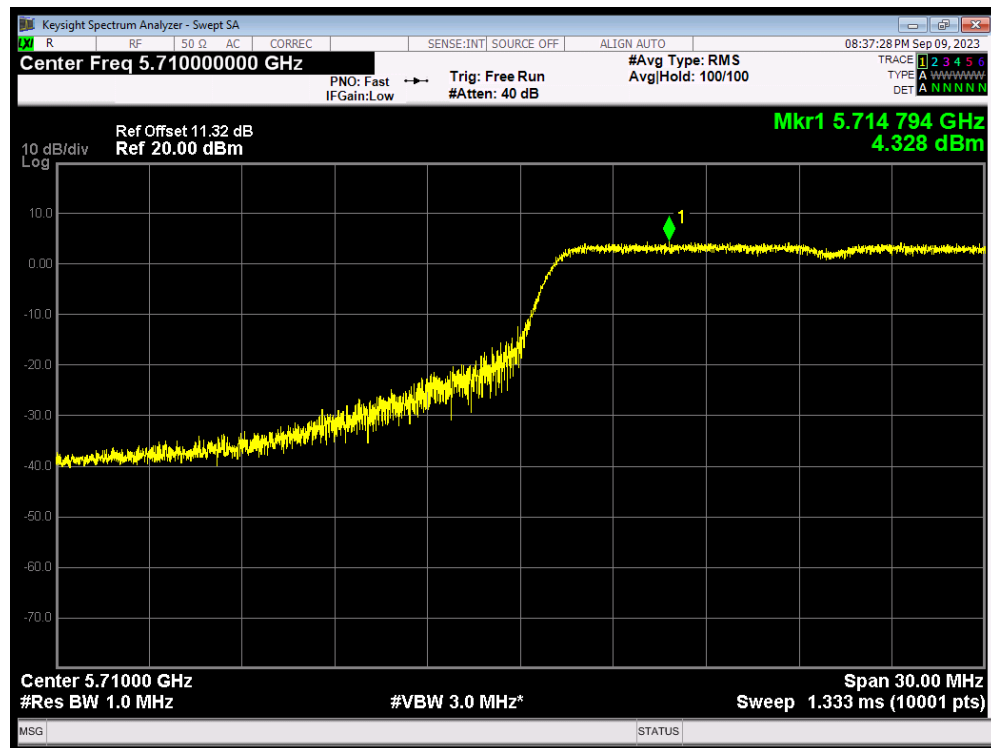
PSD 802.11n(HT20) 5600MHz



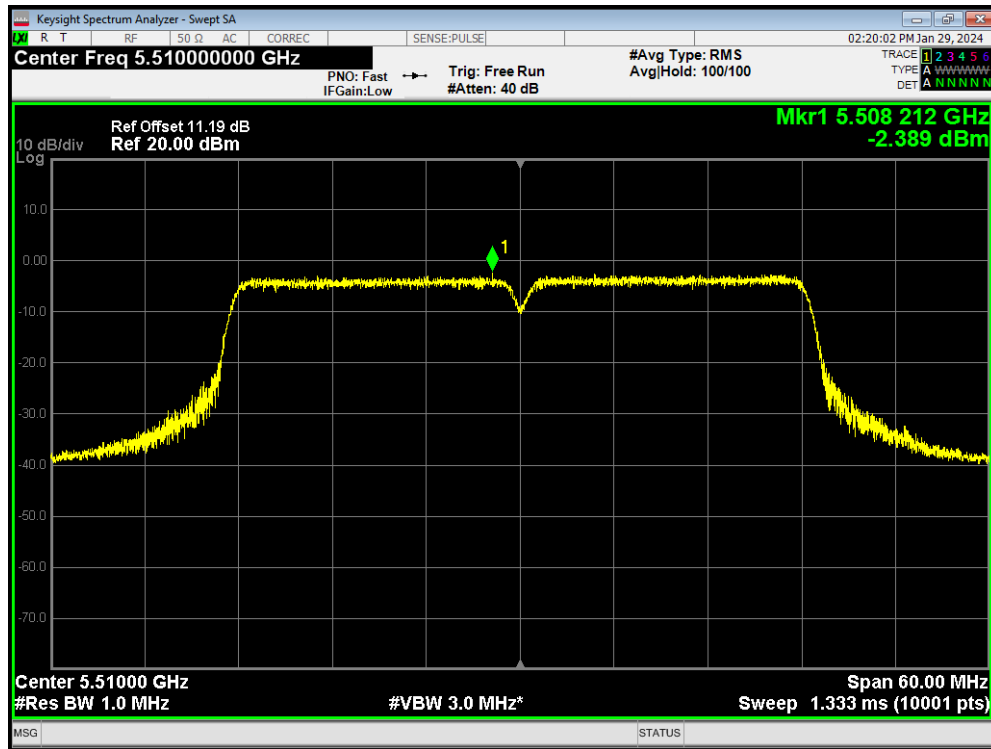
PSD 802.11n(HT20) 5700MHz



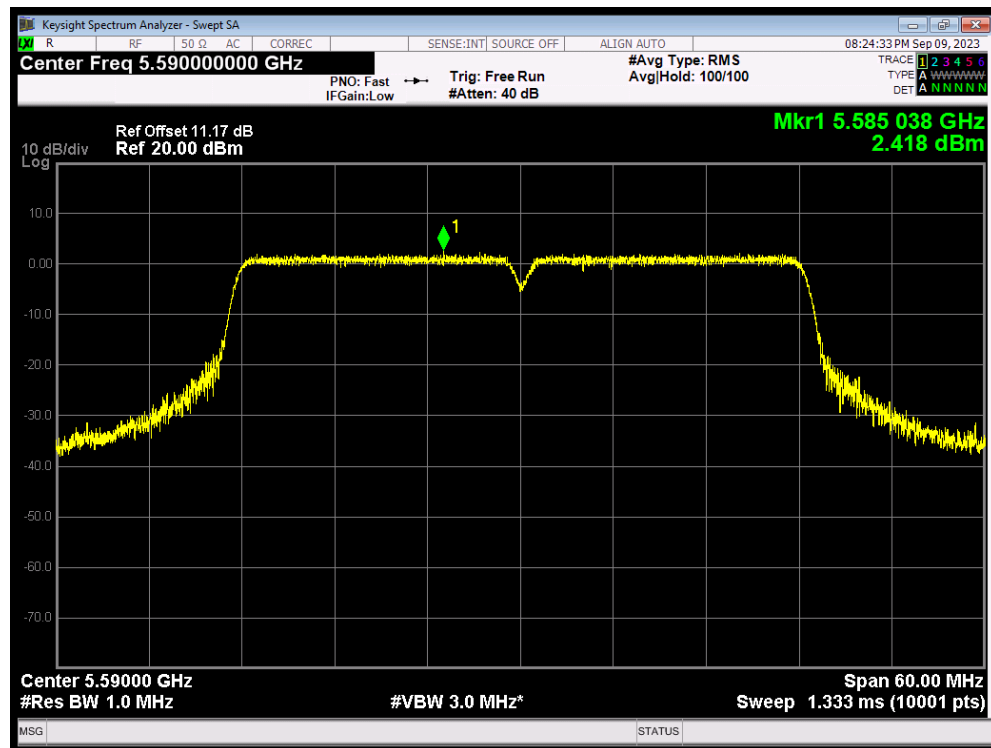
PSD 802.11n(HT20) 5720MHz



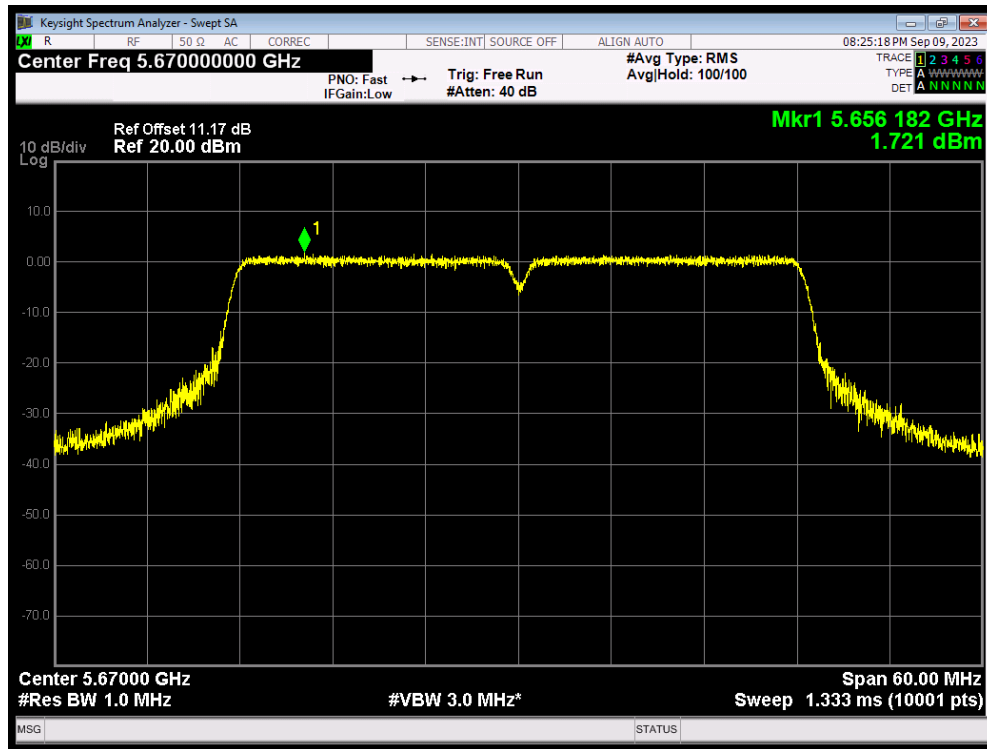
PSD 802.11n(HT40) 5510MHz



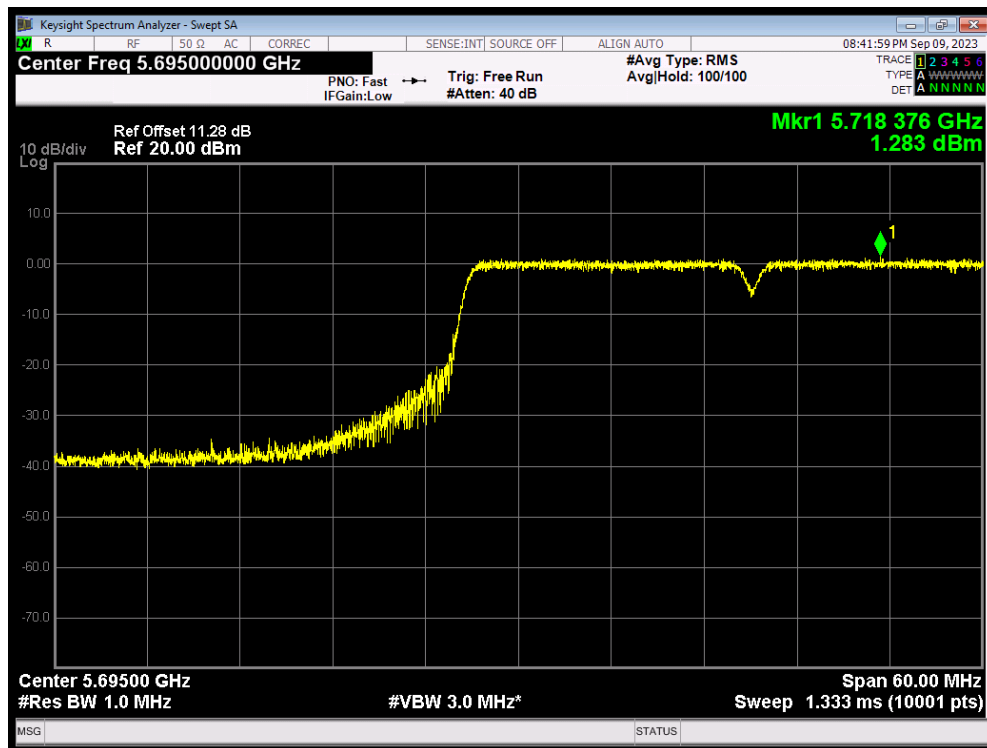
PSD 802.11n(HT40) 5590MHz



PSD 802.11n(HT40) 5670MHz

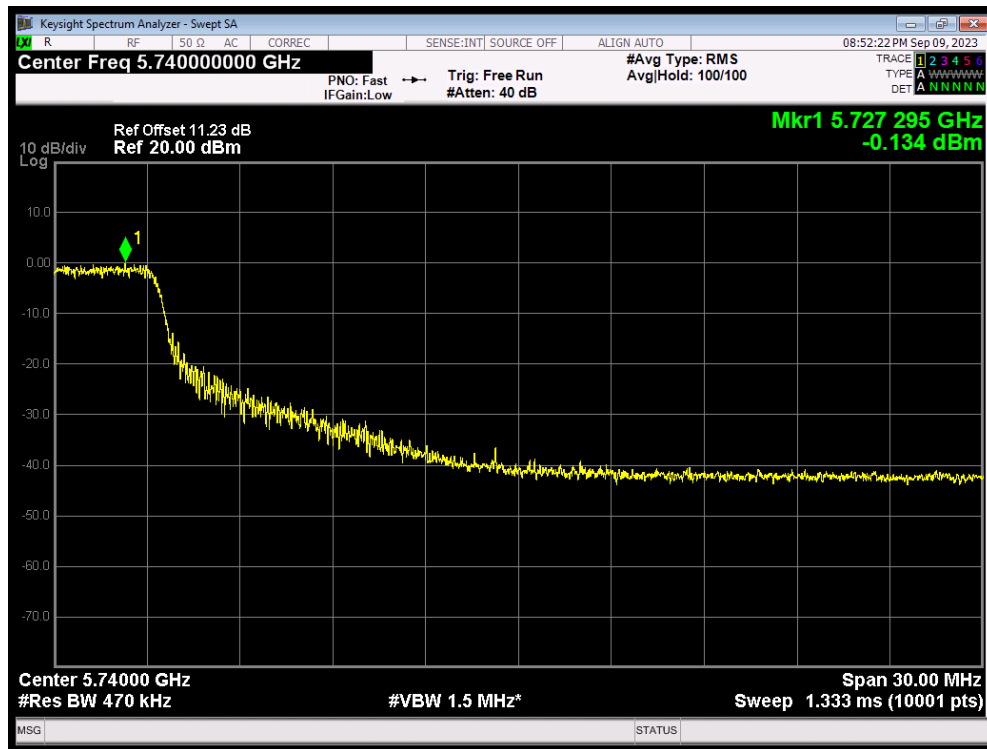


PSD 802.11n(HT40) 5710MHz

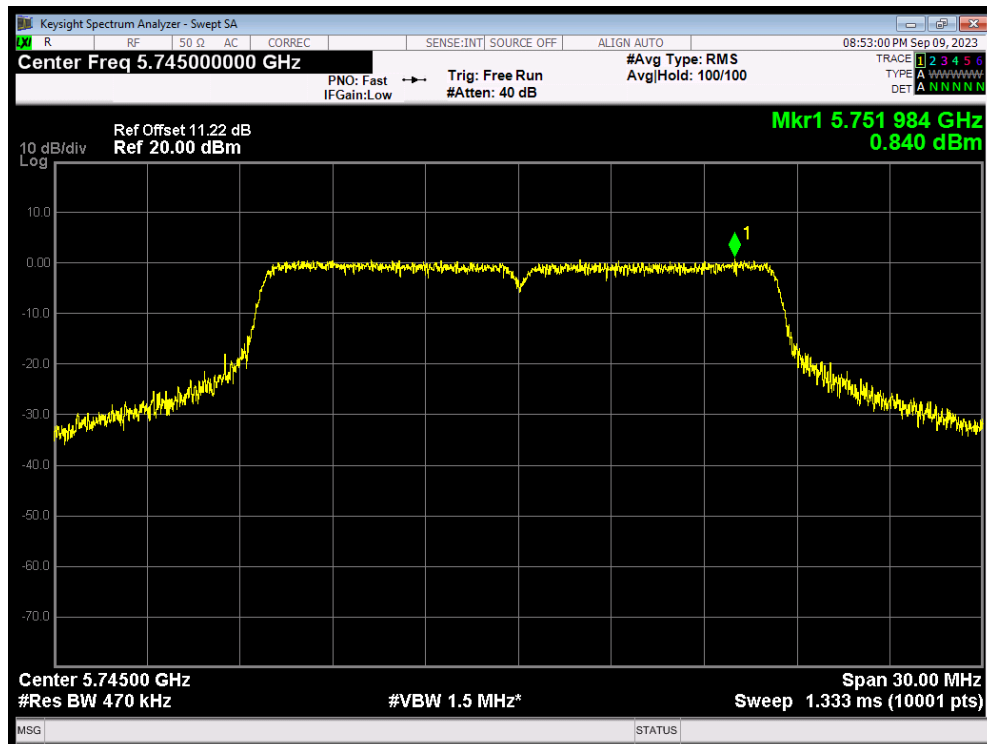


U-NII-3

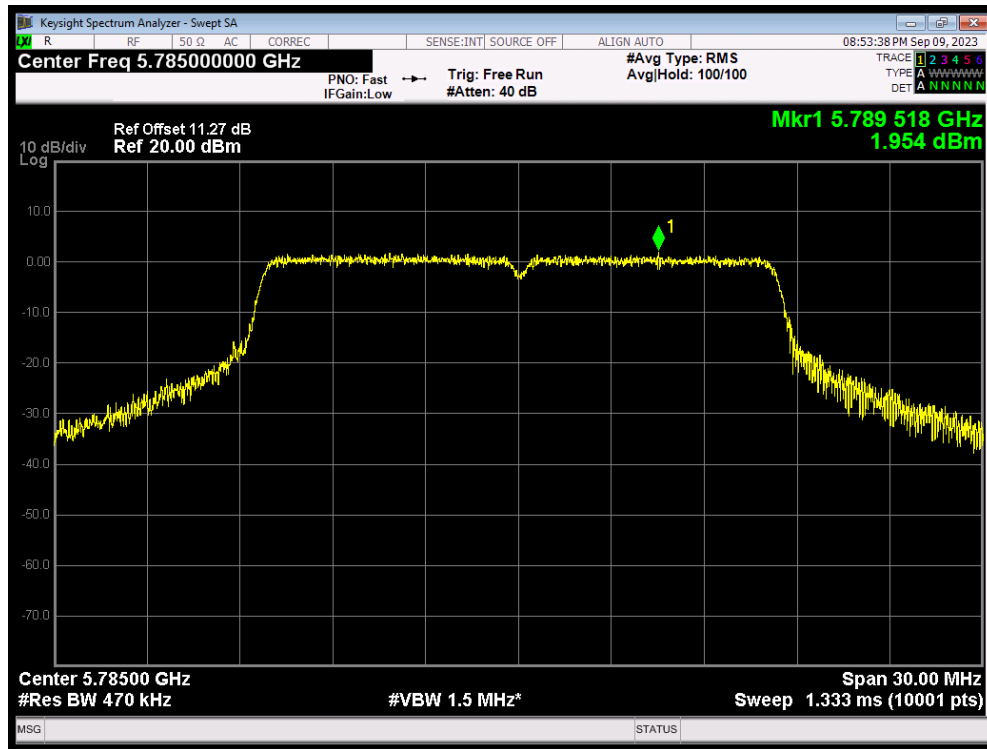
PSD 802.11a 5720MHz



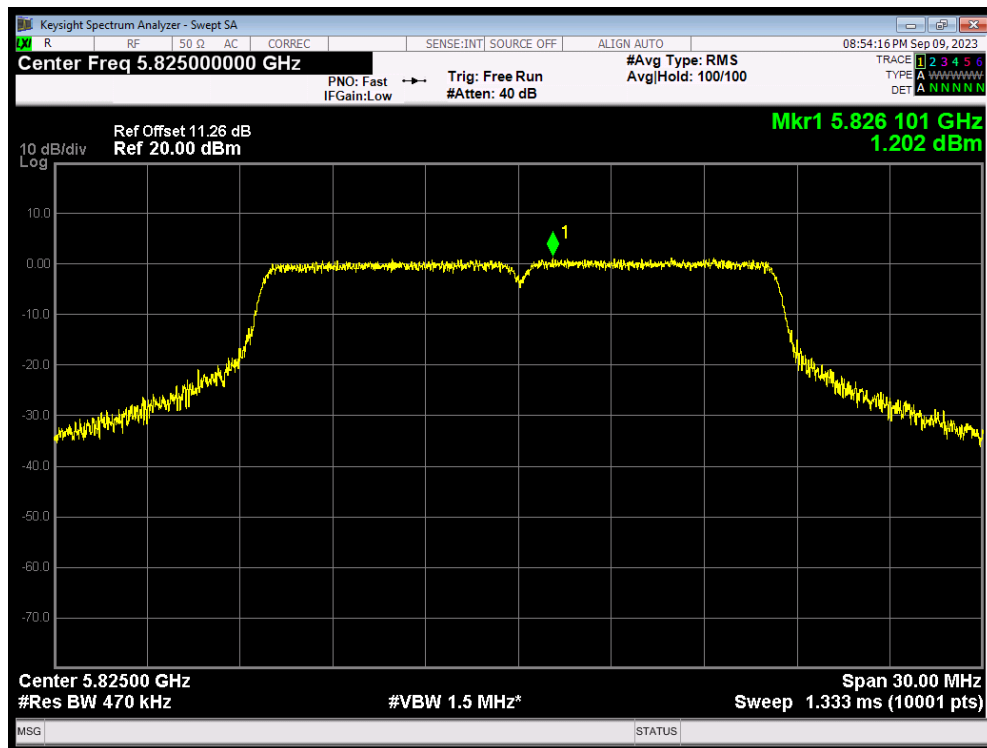
PSD 802.11a 5745MHz



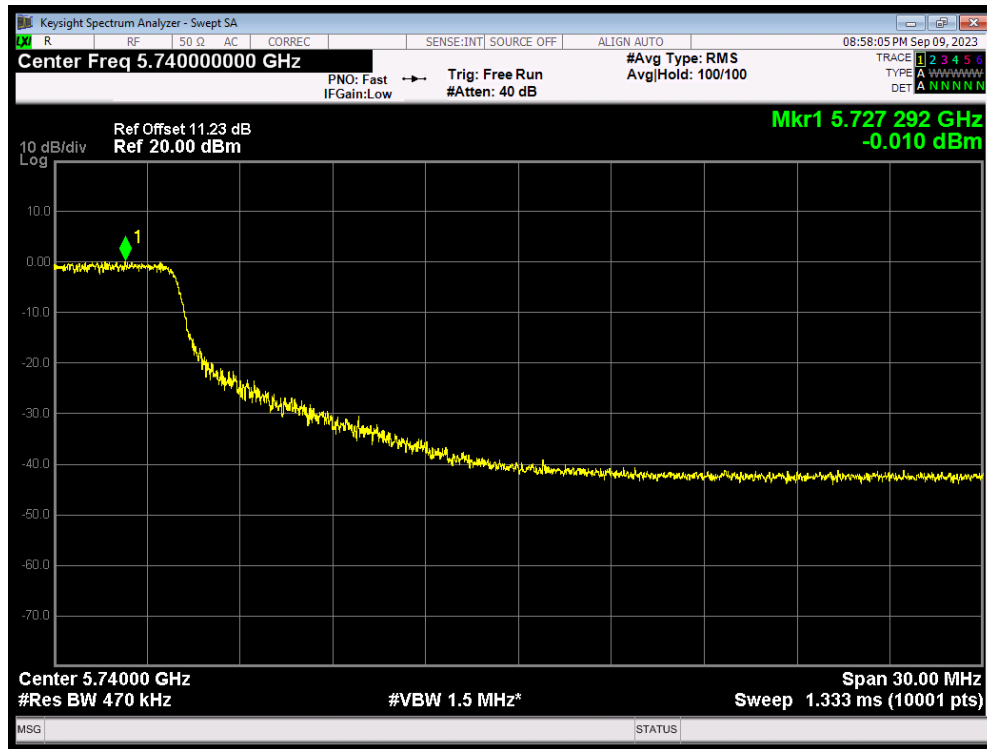
PSD 802.11a 5785MHz



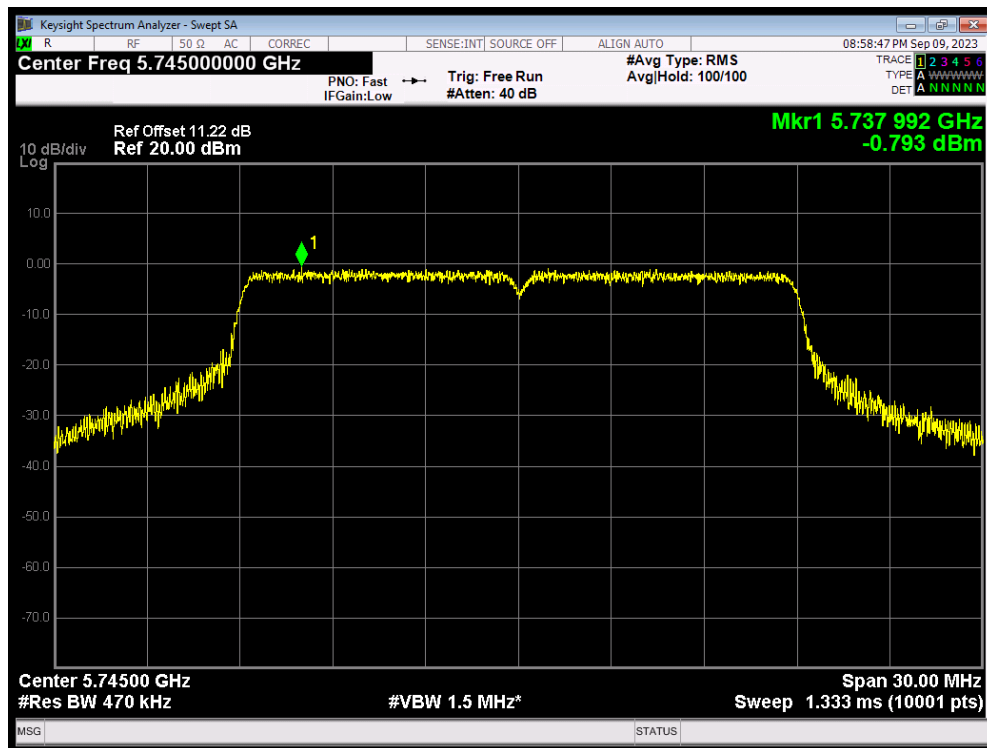
PSD 802.11a 5825MHz



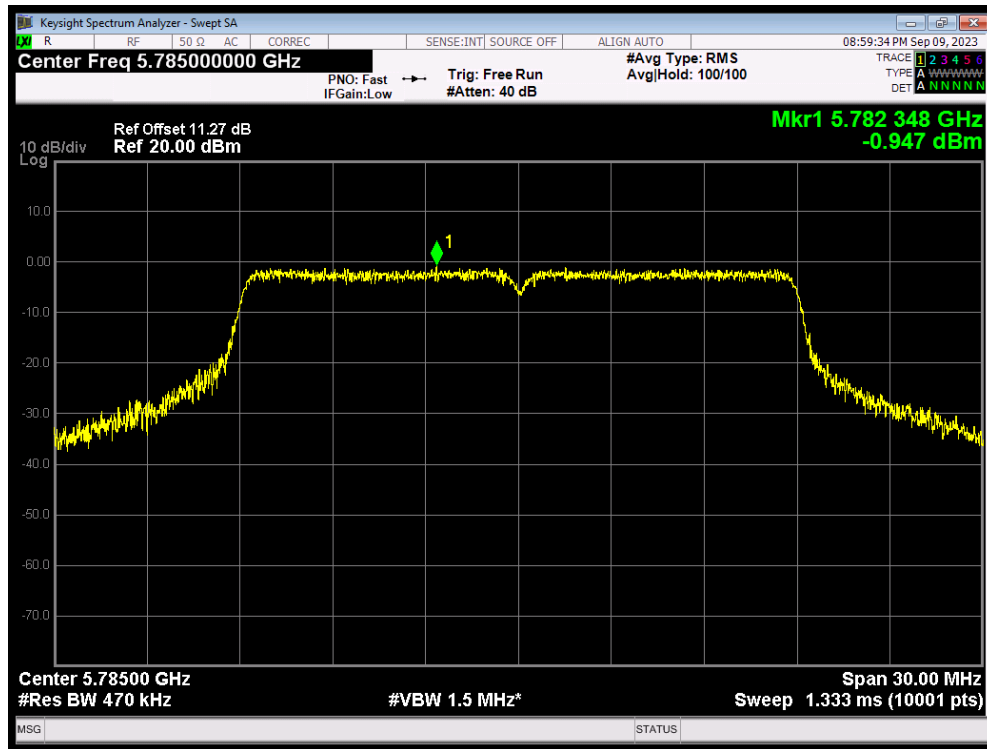
PSD 802.11ac(VHT20) 5720MHz



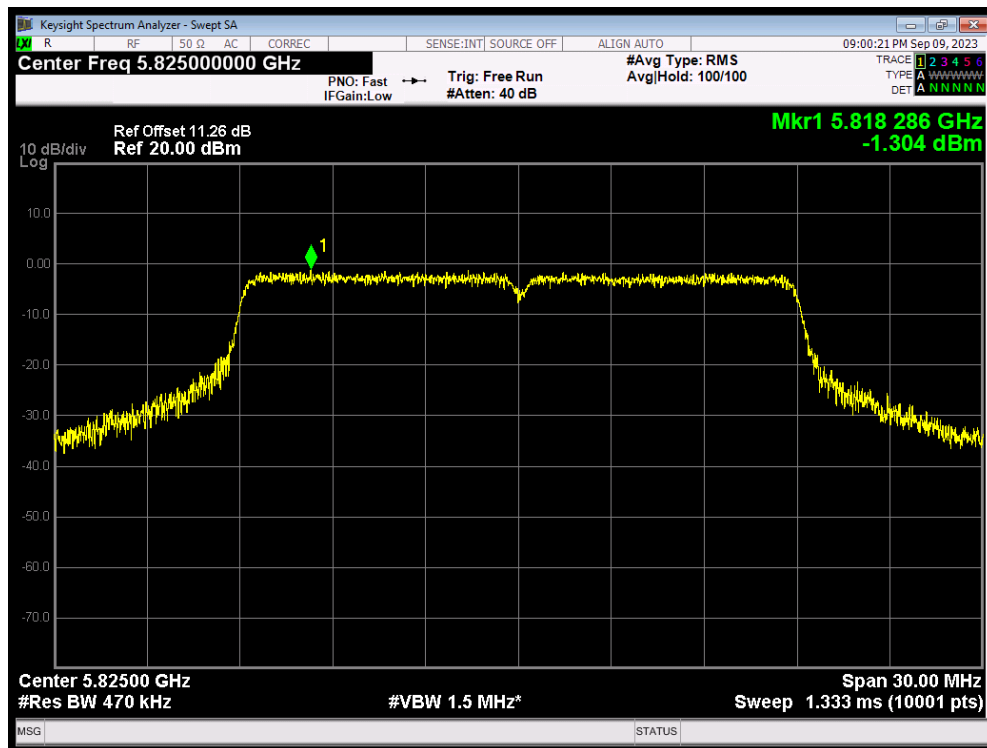
PSD 802.11ac(VHT20) 5745MHz



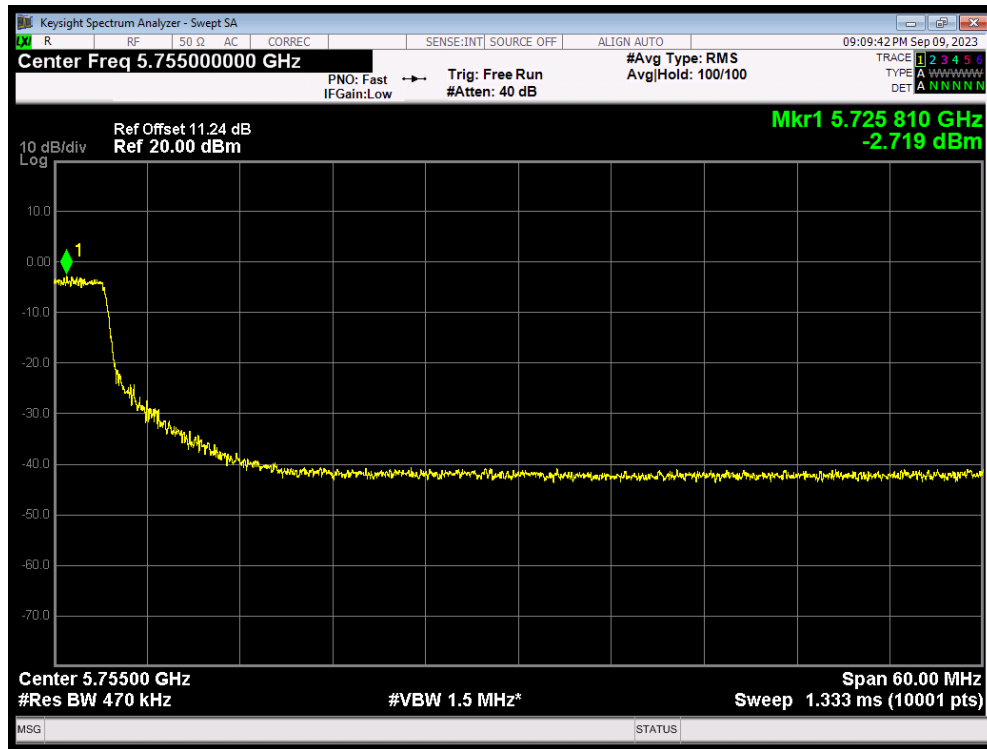
PSD 802.11ac(VHT20) 5785MHz



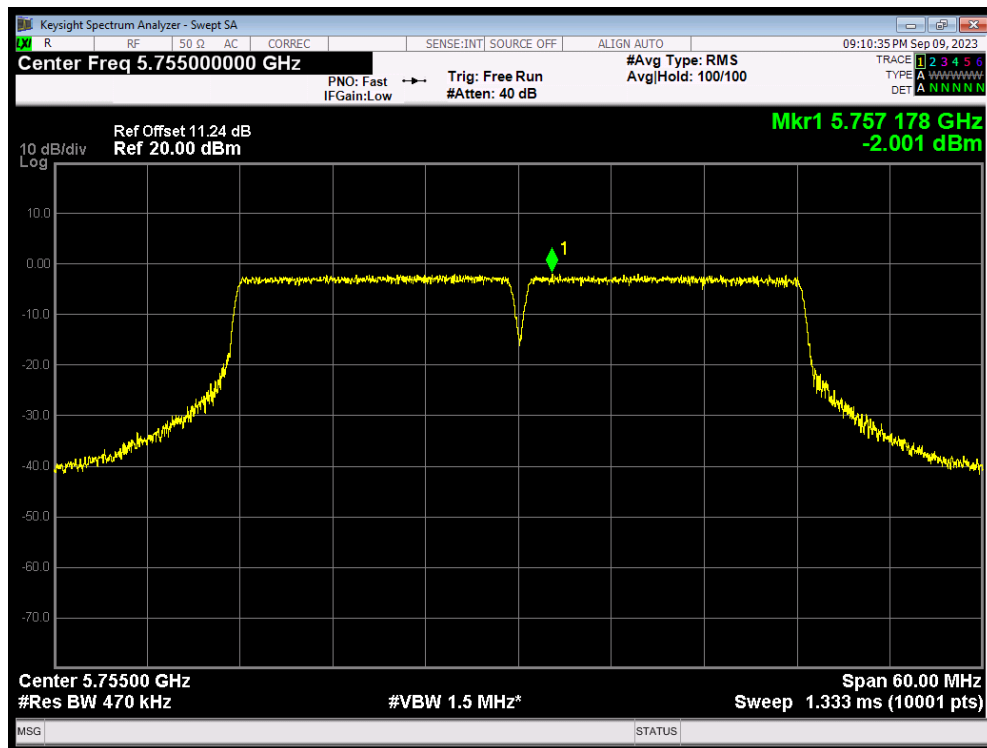
PSD 802.11ac(VHT20) 5825MHz



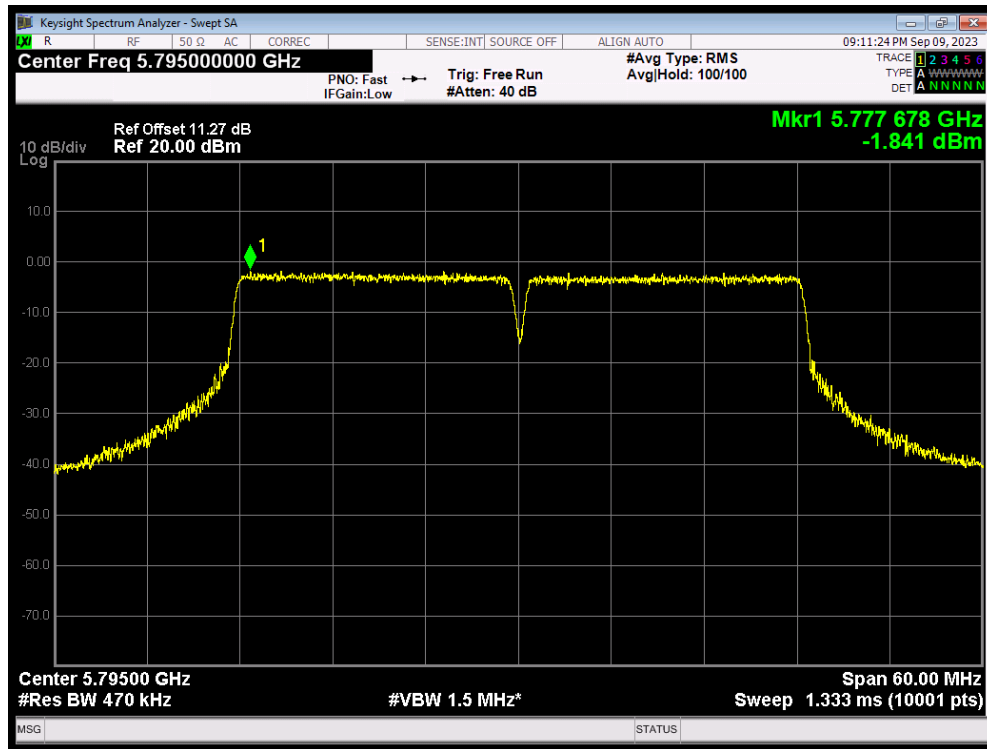
PSD 802.11ac(VHT40) 5710MHz



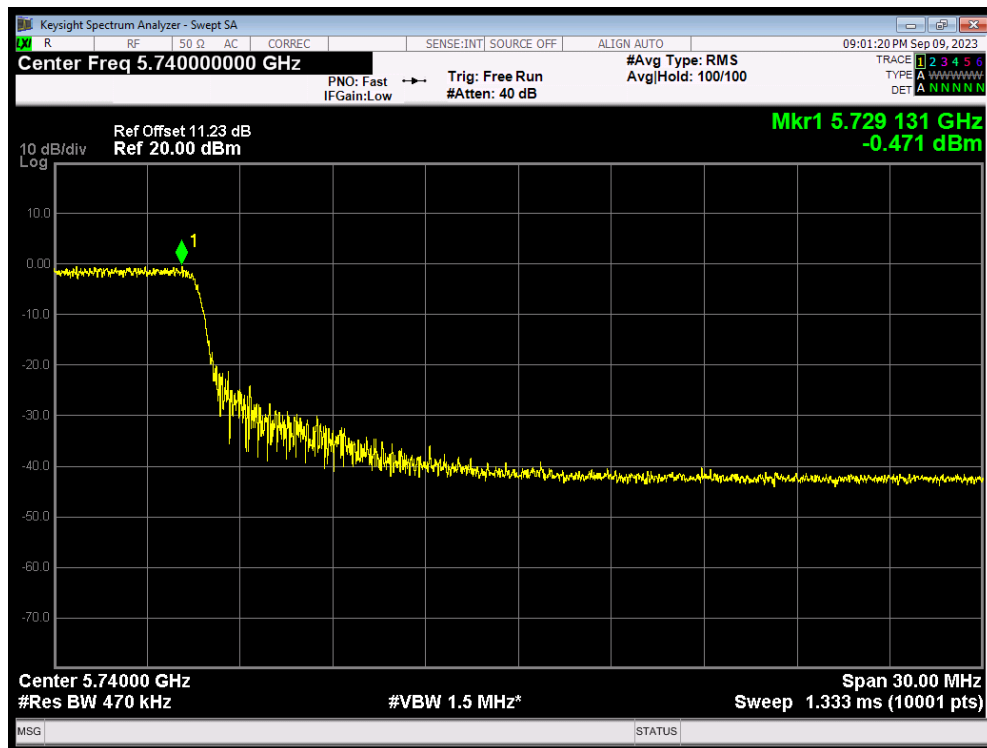
PSD 802.11ac(VHT40) 5755MHz



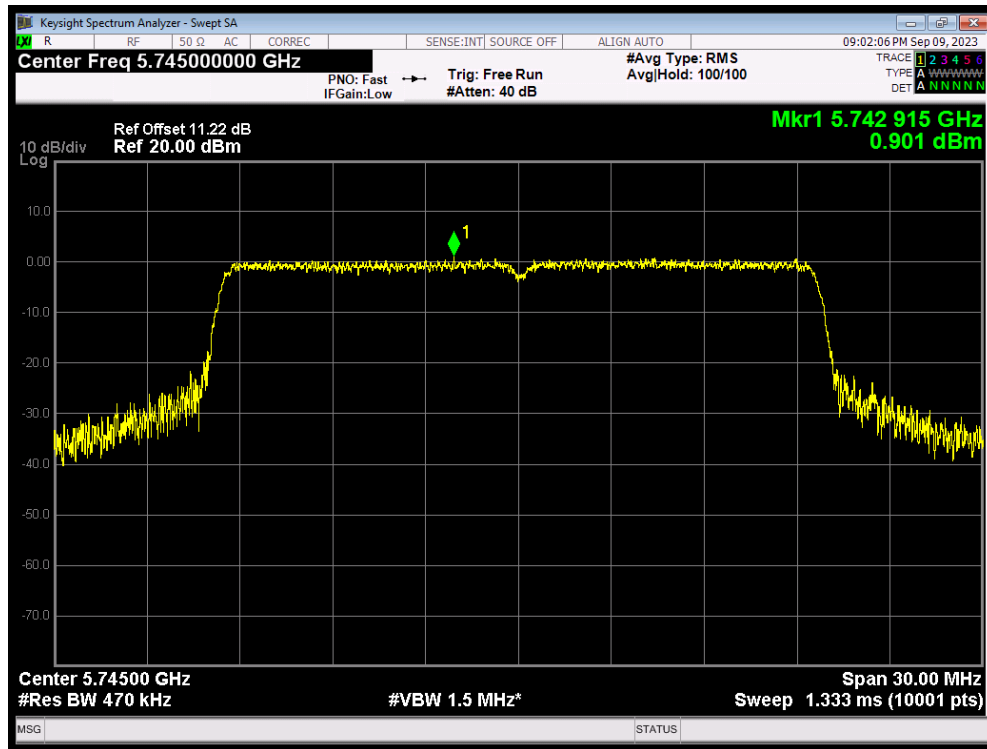
PSD 802.11ac(VHT40) 5795MHz



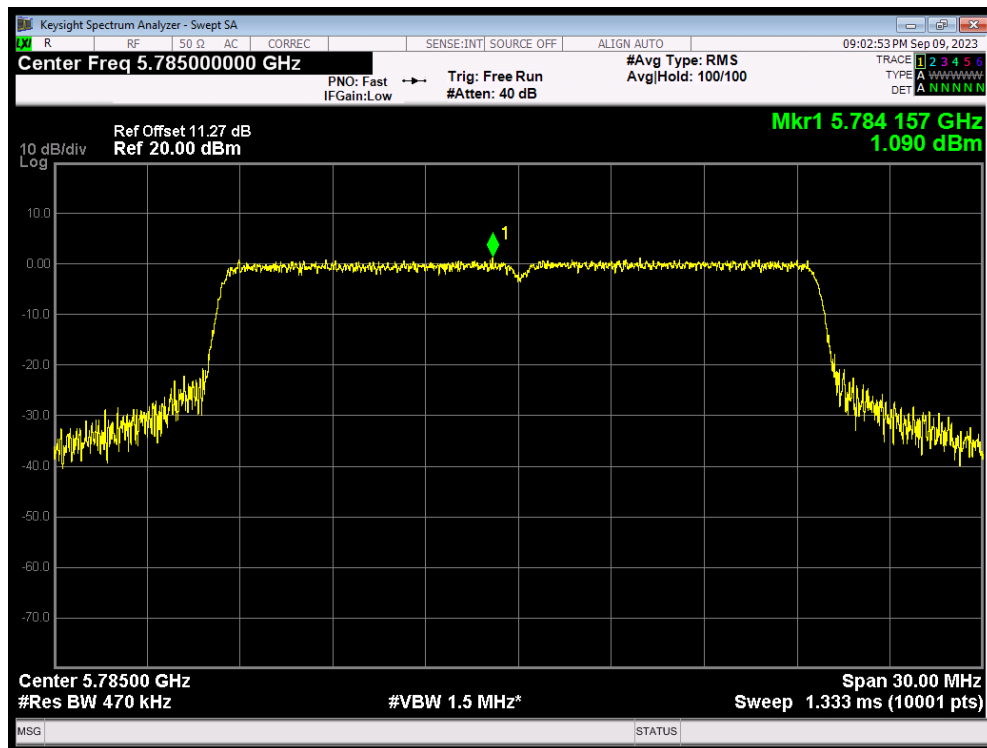
PSD 802.11ax(HE20) 5720MHz



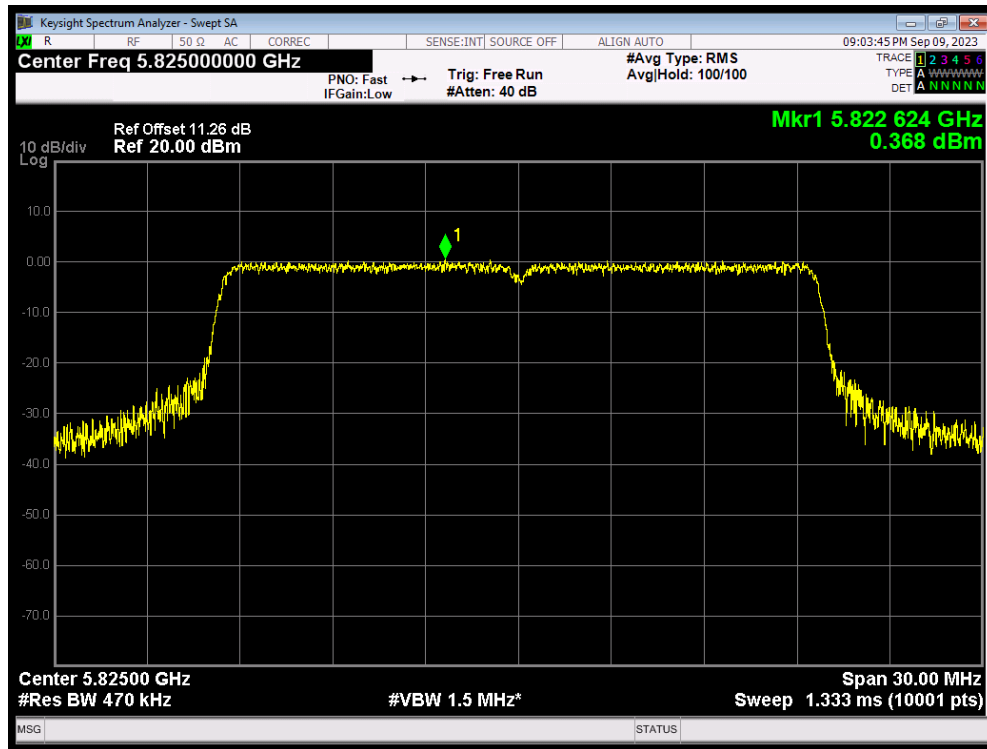
PSD 802.11ax(HE20) 5745MHz



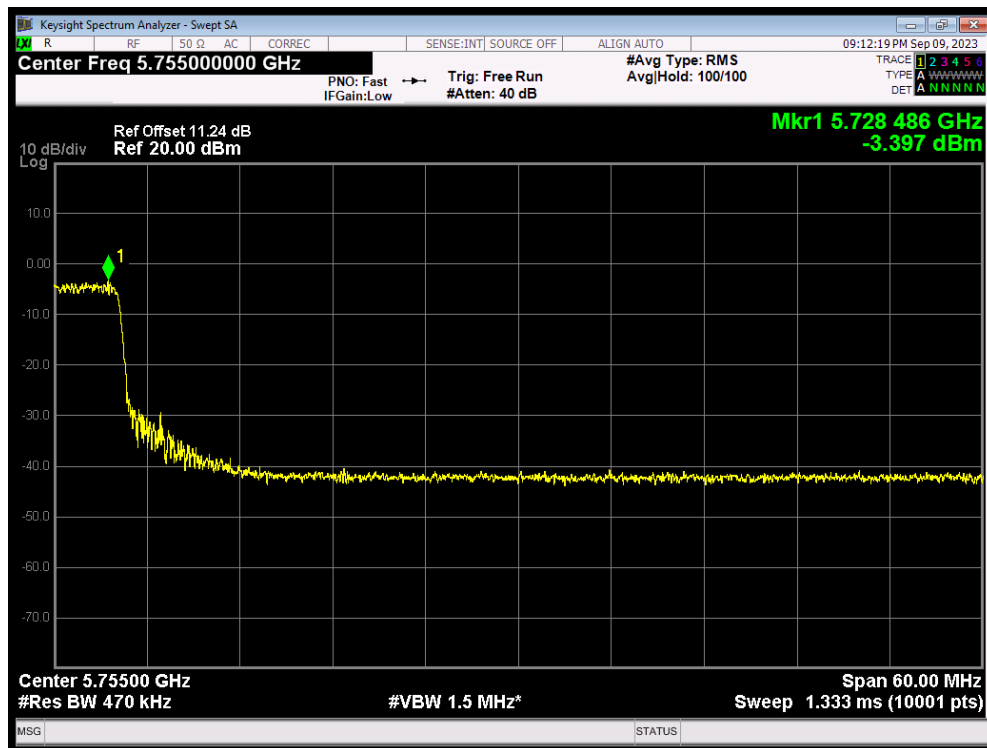
PSD 802.11ax(HE20) 5785MHz



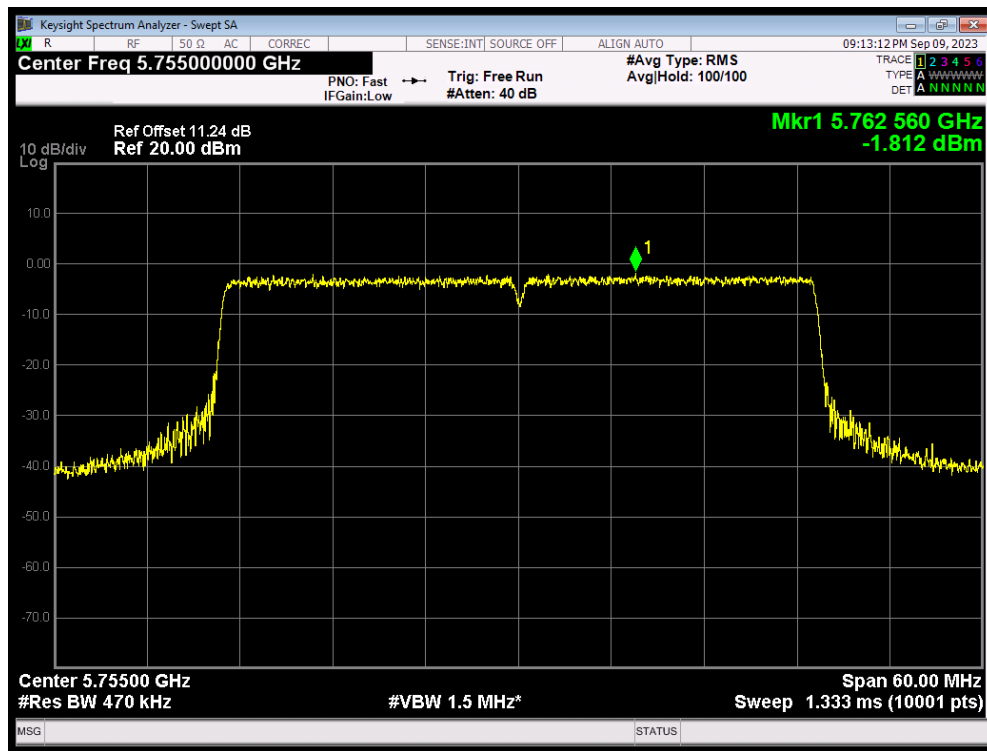
PSD 802.11ax(HE20) 5825MHz



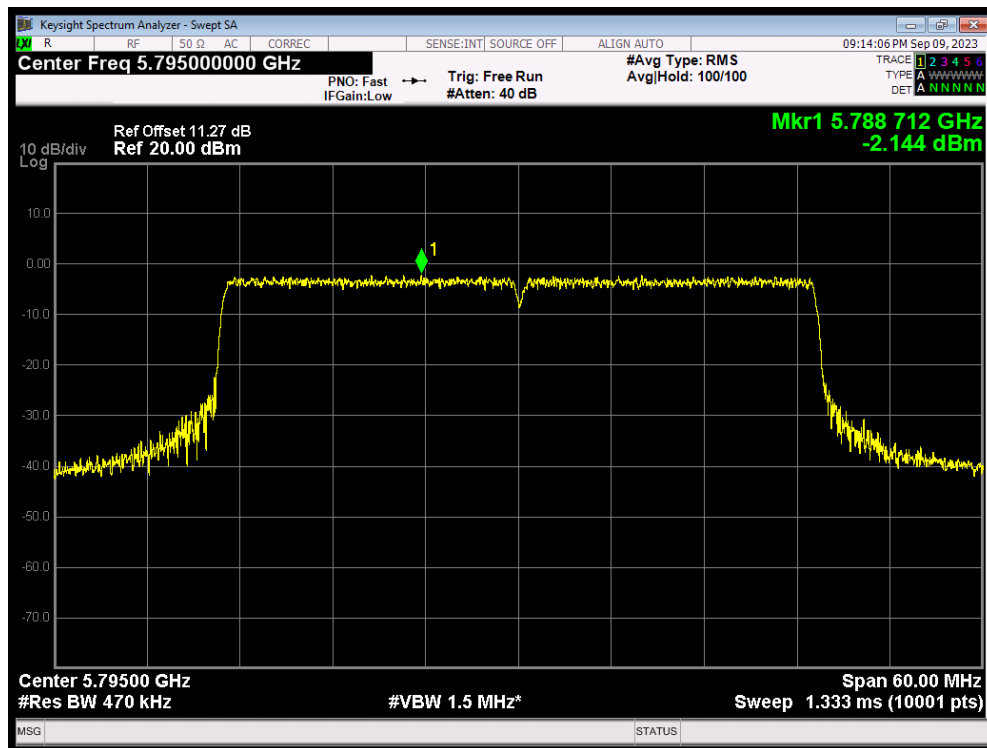
PSD 802.11ax(HE40) 5710MHz



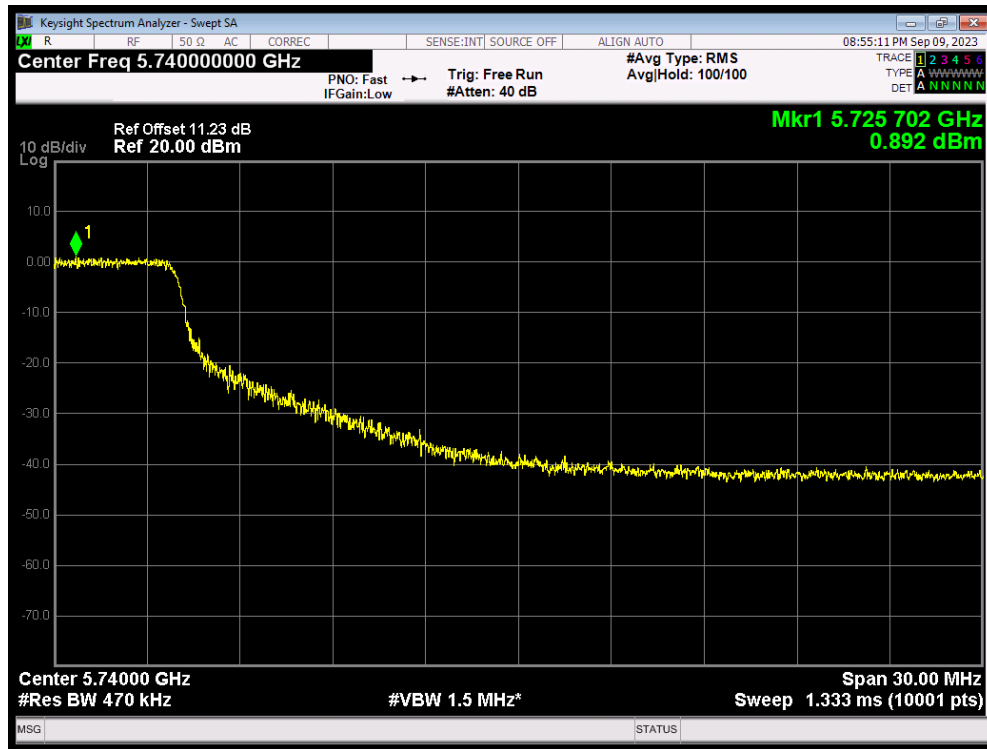
PSD 802.11ax(HE40) 5755MHz



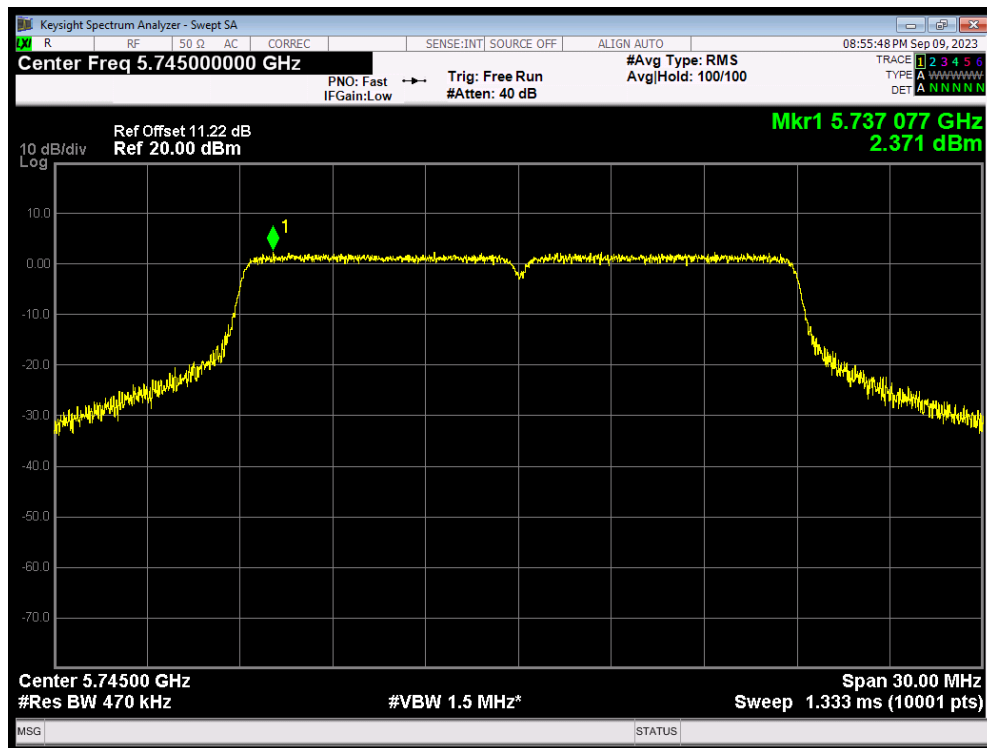
PSD 802.11ax(HE40) 5795MHz



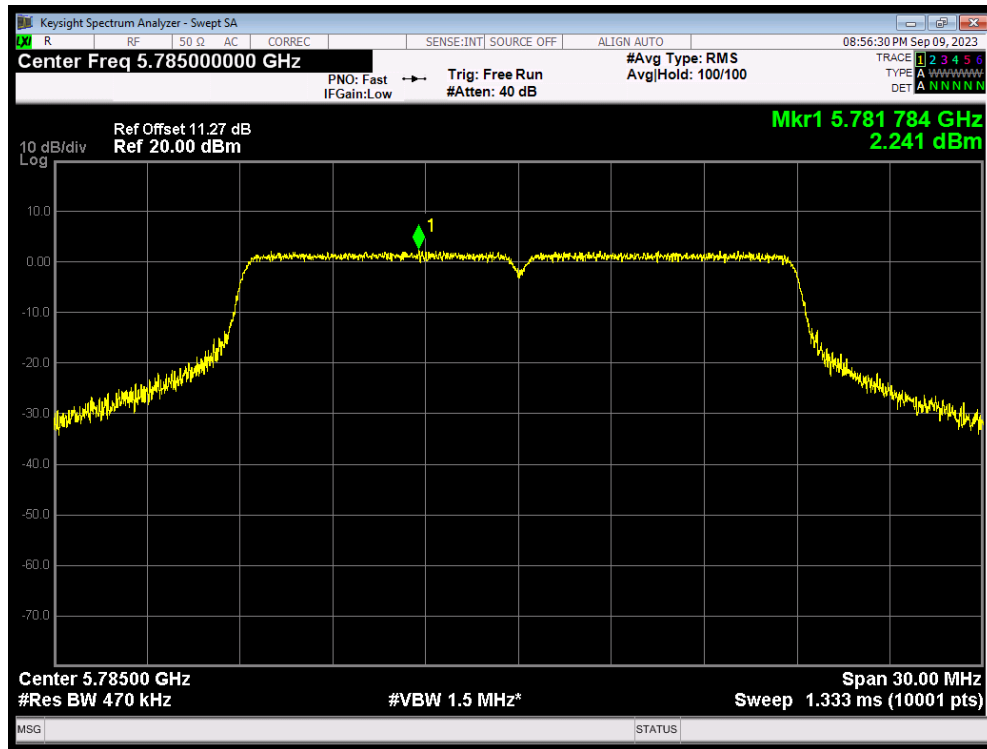
PSD 802.11n(HT20) 5720MHz



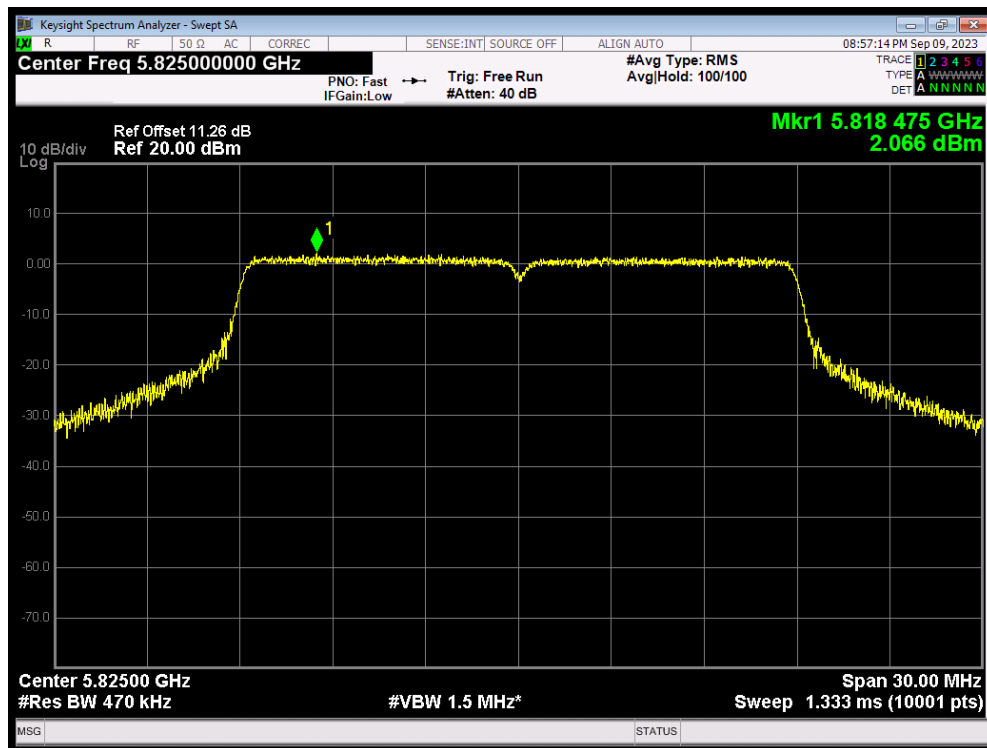
PSD 802.11n(HT20) 5745MHz



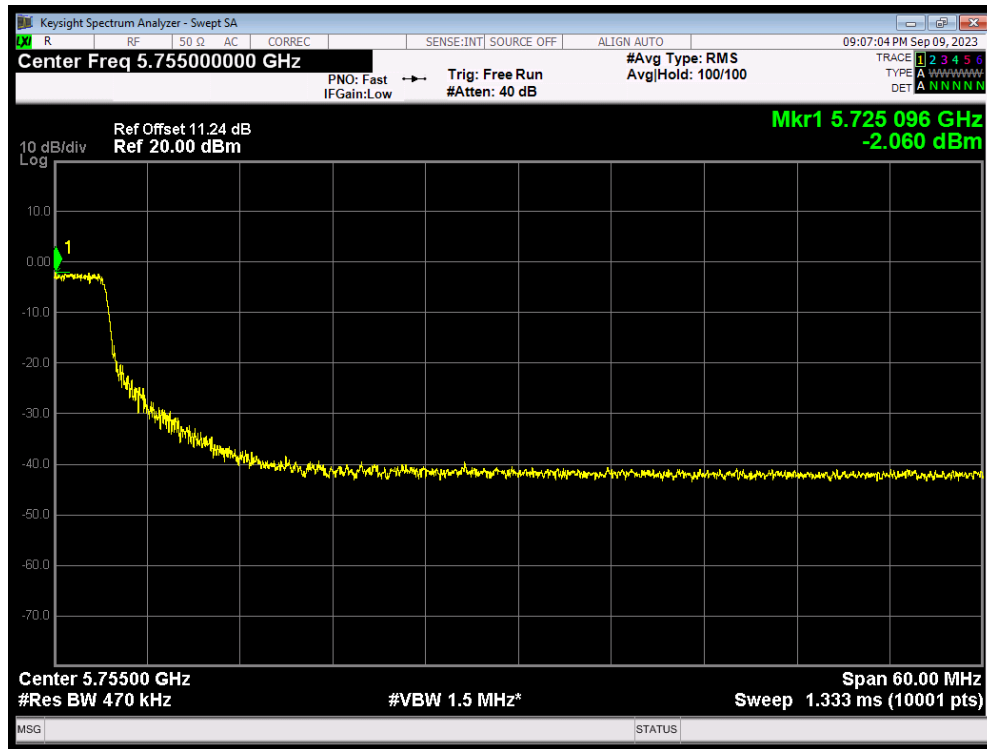
PSD 802.11n(HT20) 5785MHz



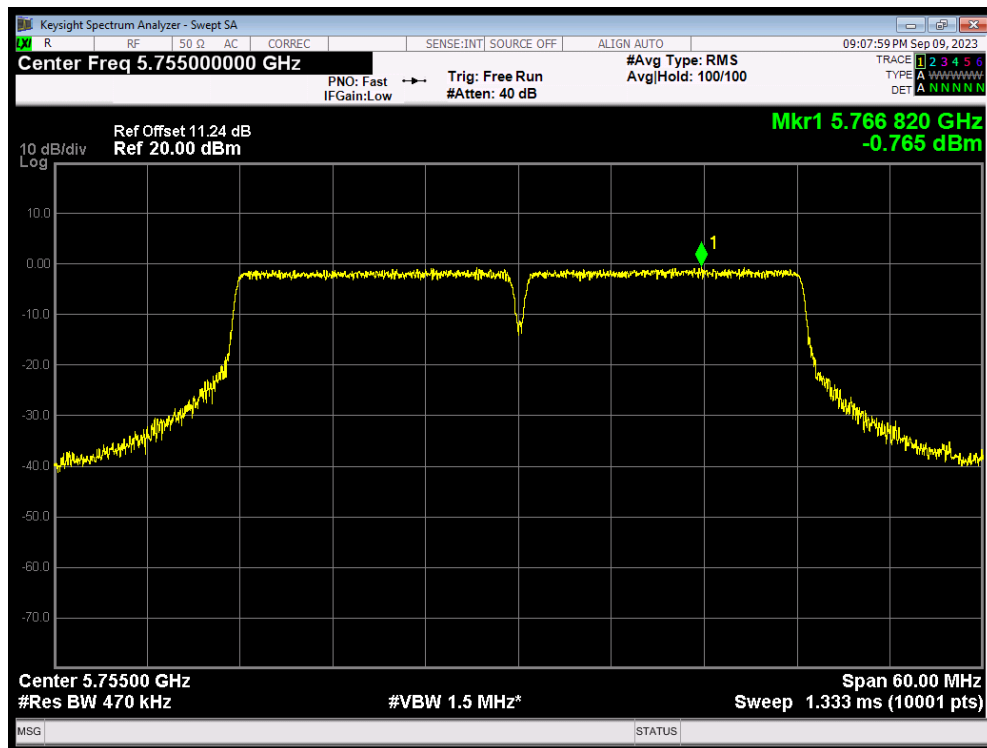
PSD 802.11n(HT20) 5825MHz



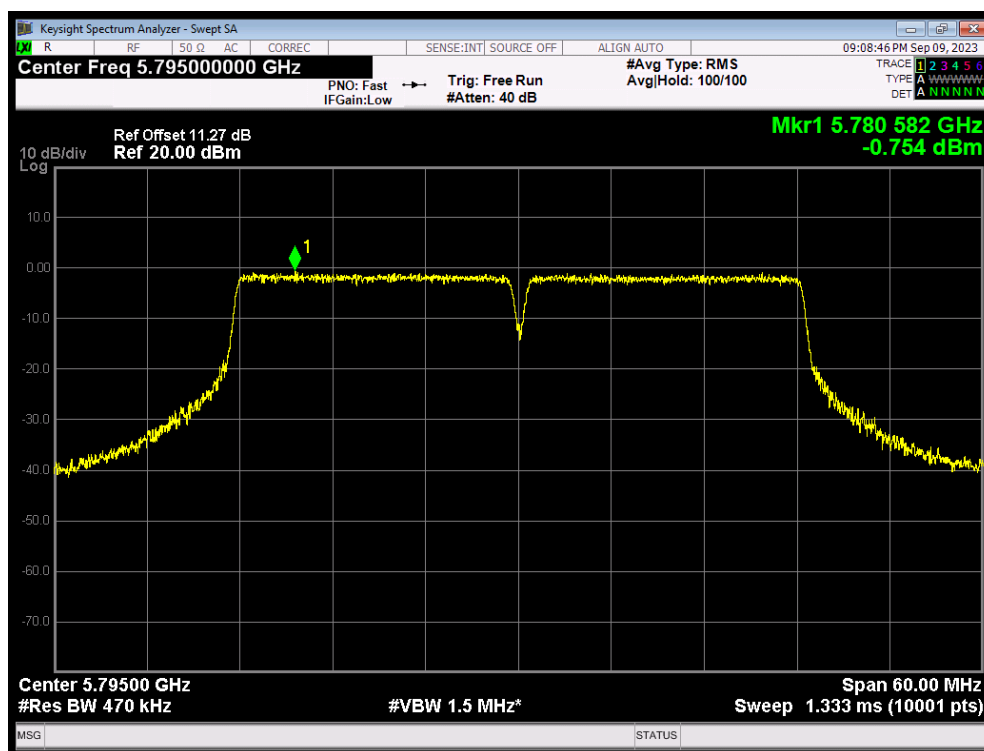
PSD 802.11n(HT40) 5710MHz



PSD 802.11n(HT40) 5755MHz



PSD 802.11n(HT40) 5795MHz



5.5. Unwanted Emission

Ambient condition

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

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and

OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

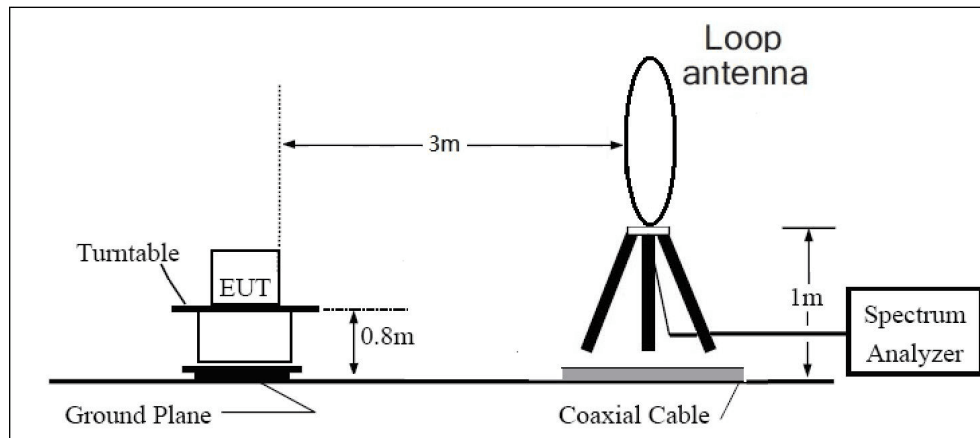
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

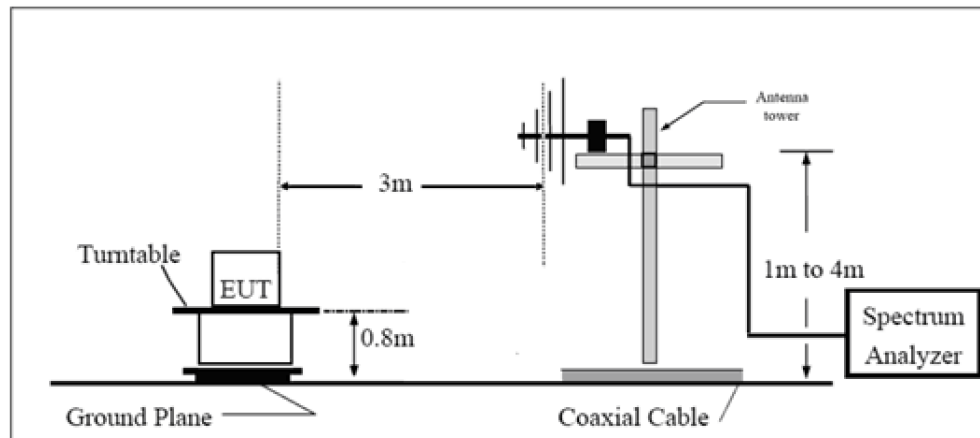
The test is in transmitting mode.

Test setup

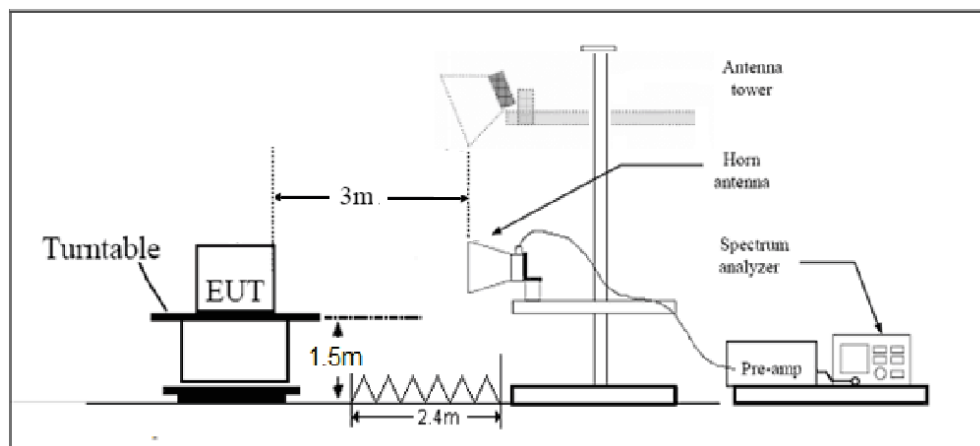
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty(3m)	Uncertainty(10m)
9KHz-30MHz	3.55 dB	--
30MHz-200MHz	4.17 dB	--
200MHz-1GHz	4.84 dB	---
1-18GHz	4.35 dB	6.51 dB
18-26.5GHz	5.90 dB	--
26.5GHz~40GHz	5.92 dB	--

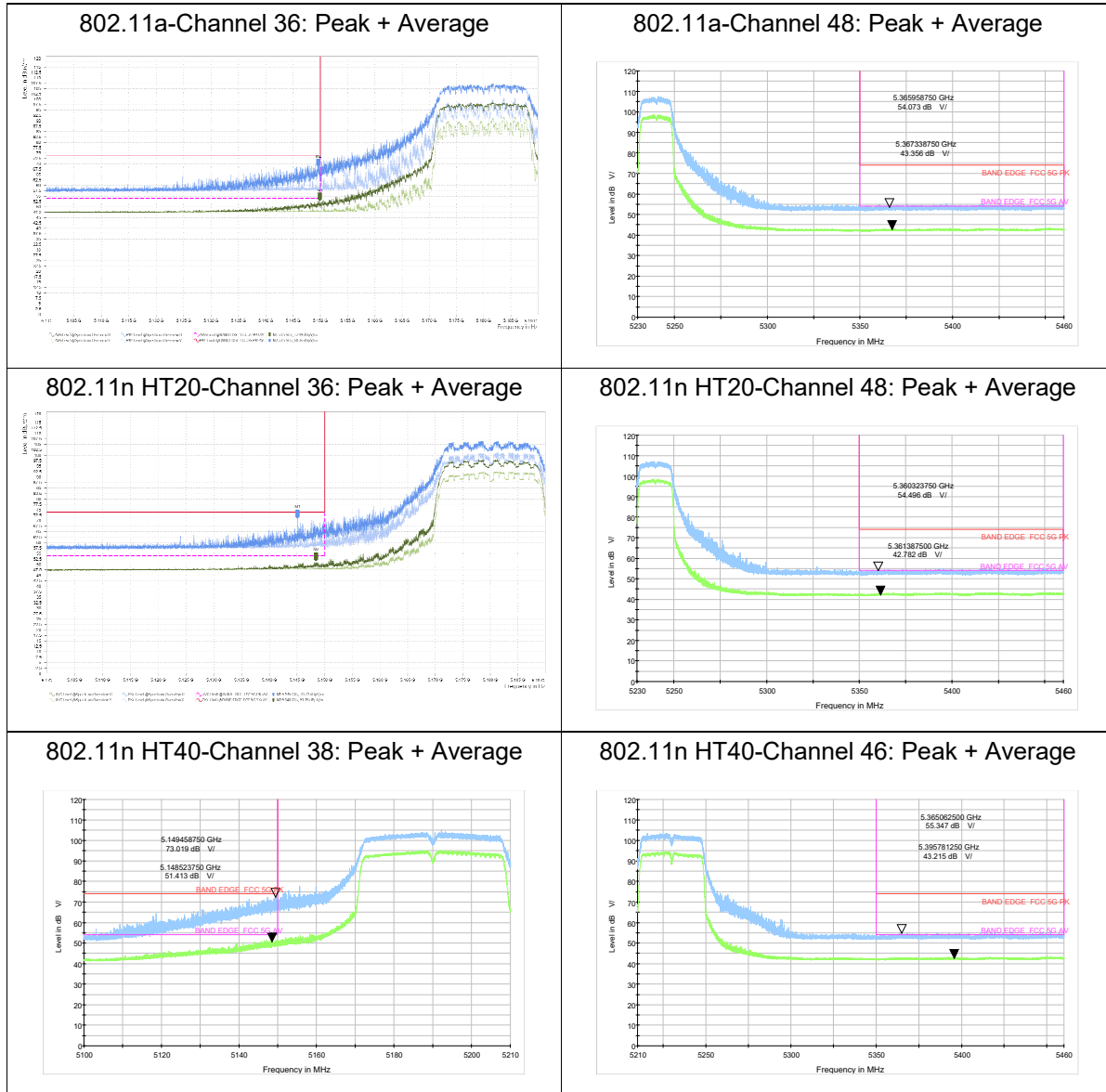
Test Results:

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

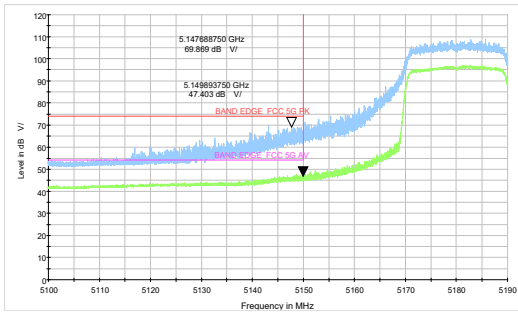
A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The signal beyond the limit is carrier.

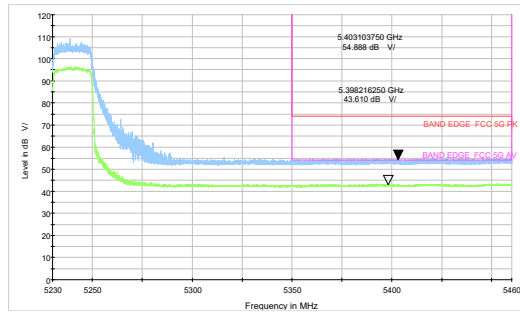
U-NII-1



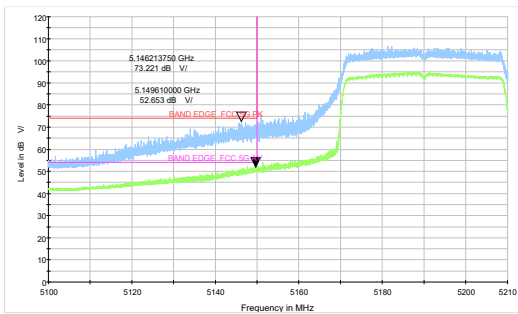
802.11ax HE20 -Channel 36: Peak + Average



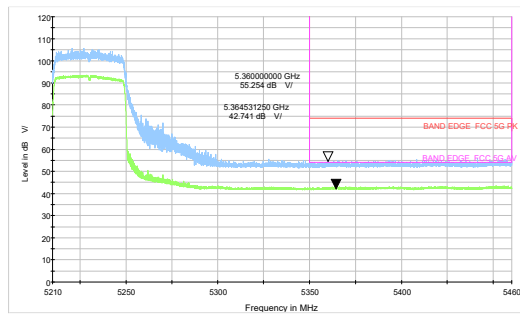
802.11ax HE20 -Channel 48: Peak + Average



802.11ax HE40-Channel 38: Peak + Average

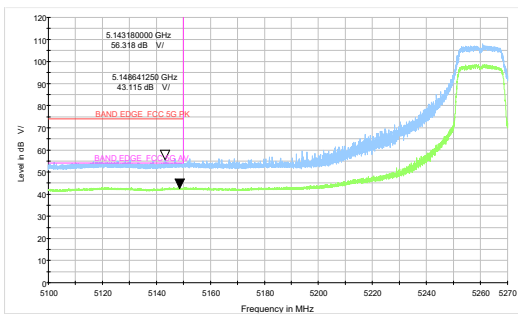


802.11ax HE40-Channel 46: Peak + Average

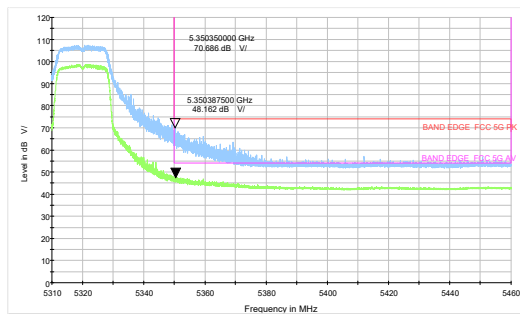


U-NII-2A

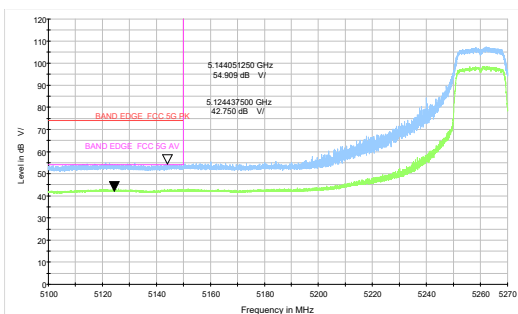
802.11a-Channel 52: Peak + Average



802.11a-Channel 64: Peak + Average



802.11n HT20-Channel 52: Peak + Average



802.11n HT20-Channel 64: Peak + Average

