

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		5580MHz			
		1min	2min	5min	10min
24	-30	5579.990173	5579.981317	5579.974054	5579.966694
24	-20	5579.980576	5579.976589	5579.970841	5579.965968
24	-10	5579.971892	5579.968299	5579.965368	5579.961192
24	0	5579.973547	5579.972744	5579.966381	5579.958357
24	10	5579.964077	5579.968346	5579.963868	5579.952896
24	20	5579.954182	5579.960764	5579.957606	5579.946644
24	30	5579.950953	5579.960621	5579.954581	5579.945310
24	40	5579.942883	5579.959686	5579.951623	5579.941275
24	50	5579.937875	5579.952620	5579.945781	5579.933437
21.6	20	5579.933980	5579.945166	5579.941239	5579.929250
26.4	20	5579.927047	5579.935293	5579.935059	5579.919858
Max. ΔMHz		-0.072953	-0.064707	-0.064941	-0.080142
PPM		-13.074014	-11.596237	-11.638172	-14.362366

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
24	-30	5784.994229	5784.984627	5784.983185	5784.979475
24	-20	5784.991535	5784.978650	5784.981750	5784.978828
24	-10	5784.986149	5784.970718	5784.974352	5784.976987
24	0	5784.990844	5784.974794	5784.974020	5784.973844
24	10	5784.988697	5784.968347	5784.965402	5784.972989
24	20	5784.979535	5784.960357	5784.964599	5784.966365
24	30	5784.975797	5784.951742	5784.962271	5784.964642
24	40	5784.966555	5784.943184	5784.959442	5784.962157
24	50	5784.965050	5784.938528	5784.952302	5784.953053
21.6	20	5784.957357	5784.929823	5784.949620	5784.944957
26.4	20	5784.952339	5784.925984	5784.948529	5784.941574
Max. ΔMHz		-0.047661	-0.074016	-0.051471	-0.058426
PPM		-8.238721	-12.794468	-8.897321	-10.099568

5.4. Power Spectral Density

Ambient condition

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

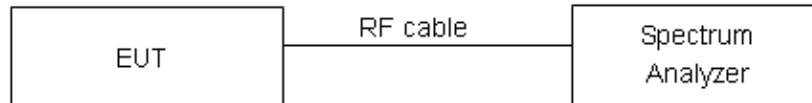
Method of Measurement

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:
U-NII-1

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	3.37	3.48	11	PASS
	40/5200	3.36	3.47	11	PASS
	48/5240	3.71	3.82	11	PASS
802.11n HT20	36/5180	1.80	1.92	11	PASS
	40/5200	2.41	2.53	11	PASS
	48/5240	2.56	2.68	11	PASS
802.11n HT40	38/5190	-1.35	-1.12	11	PASS
	46/5230	-1.46	-1.23	11	PASS
802.11ac VHT20	36/5180	2.67	2.79	11	PASS
	40/5200	3.36	3.48	11	PASS
	48/5240	3.29	3.41	11	PASS
802.11ac VHT40	38/5190	-2.19	-1.96	11	PASS
	46/5230	-1.51	-1.28	11	PASS
802.11ac VHT80	42/5210	-7.26	-6.80	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	3.38	3.49	11	PASS
	60/5300	3.75	3.86	11	PASS
	64/5320	3.76	3.87	11	PASS
802.11n HT20	52/5260	2.32	2.44	11	PASS
	60/5300	2.09	2.21	11	PASS
	64/5320	2.26	2.38	11	PASS
802.11n HT40	54/5270	-0.76	-0.53	11	PASS
	62/5310	-0.61	-0.38	11	PASS
802.11ac VHT20	52/5260	2.98	3.10	11	PASS
	60/5300	3.10	3.22	11	PASS
	64/5320	3.20	3.32	11	PASS
802.11ac VHT40	54/5270	-1.54	-1.31	11	PASS
	62/5310	-1.38	-1.15	11	PASS
802.11ac VHT80	58/5290	-7.26	-6.80	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

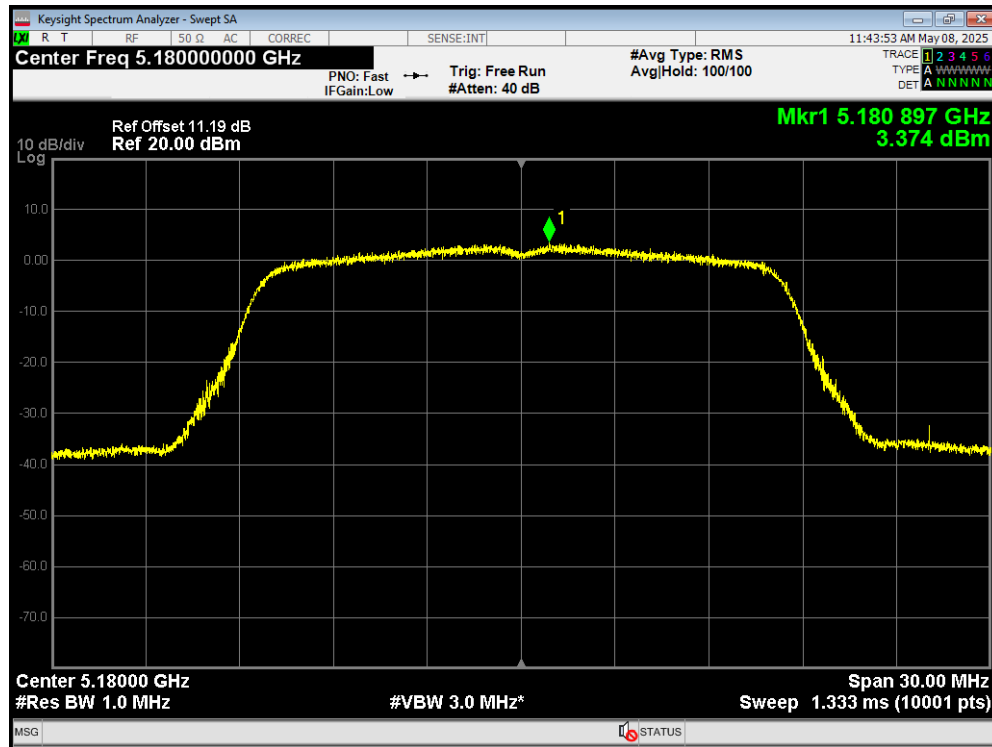
U-NII-2C

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	4.42	4.53	11	PASS
	120/5600	4.74	4.85	11	PASS
	140/5700	5.14	5.25	11	PASS
	144/5720	4.86	4.97	11	PASS
802.11n HT20	100/5500	3.21	3.33	11	PASS
	120/5600	3.75	3.87	11	PASS
	140/5700	3.97	4.09	11	PASS
	144/5720	3.84	3.96	11	PASS
802.11n HT40	102/5510	0.37	0.60	11	PASS
	118/5590	0.69	0.92	11	PASS
	134/5670	0.47	0.70	11	PASS
	142/5710	0.36	0.59	11	PASS
802.11ac VHT20	100/5500	4.34	4.46	11	PASS
	120/5600	4.63	4.75	11	PASS
	140/5700	4.78	4.90	11	PASS
	144/5720	4.75	4.87	11	PASS
802.11ac VHT40	102/5510	-0.77	-0.54	11	PASS
	118/5590	-0.80	-0.57	11	PASS
	134/5670	-0.10	0.13	11	PASS
	142/5710	-0.62	-0.39	11	PASS
802.11ac VHT80	122/5610	-6.55	-6.09	11	PASS
	138/5690	-6.43	-5.97	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

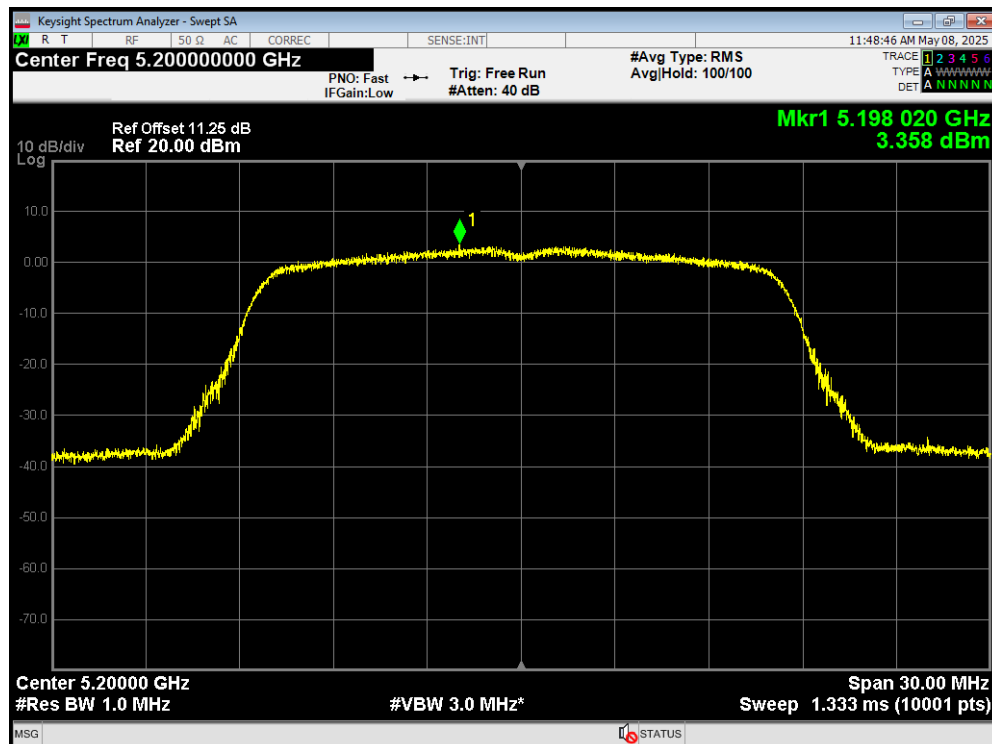
U-NII-3

Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	-0.50	-0.12	30	PASS
	149/5745	1.04	1.42	30	PASS
	157/5785	0.83	1.21	30	PASS
	165/5825	0.88	1.26	30	PASS
802.11n HT20	144/5720	-2.71	-2.32	30	PASS
	149/5745	-0.65	-0.26	30	PASS
	157/5785	0.27	0.66	30	PASS
	165/5825	-0.62	-0.23	30	PASS
802.11n HT40	142/5710	-6.68	-6.18	30	PASS
	151/5755	-2.94	-2.44	30	PASS
	159/5795	-3.28	-2.78	30	PASS
802.11ac VHT20	144/5720	-0.89	-0.50	30	PASS
	149/5745	0.96	1.35	30	PASS
	157/5785	0.95	1.34	30	PASS
	165/5825	0.63	1.02	30	PASS
802.11ac VHT40	142/5710	-8.01	-7.51	30	PASS
	151/5755	-3.71	-3.21	30	PASS
	159/5795	-4.44	-3.94	30	PASS
802.11ac VHT80	138/5690	-13.43	-12.70	30	PASS
	155/5775	-9.43	-8.70	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

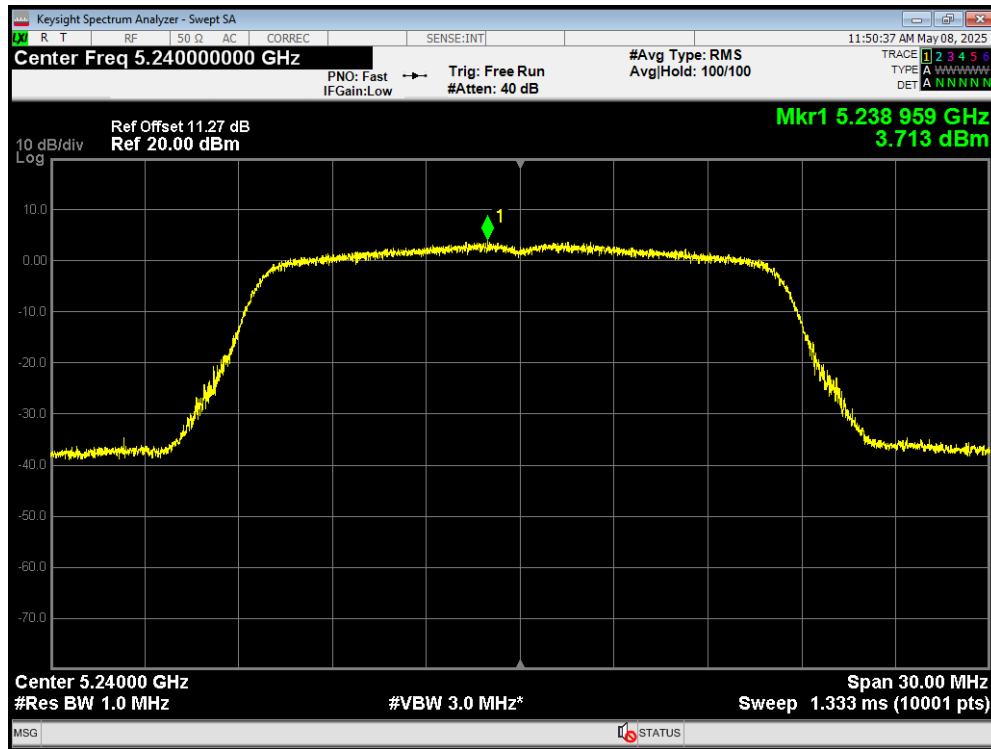
PSD 802.11a 5180MHz



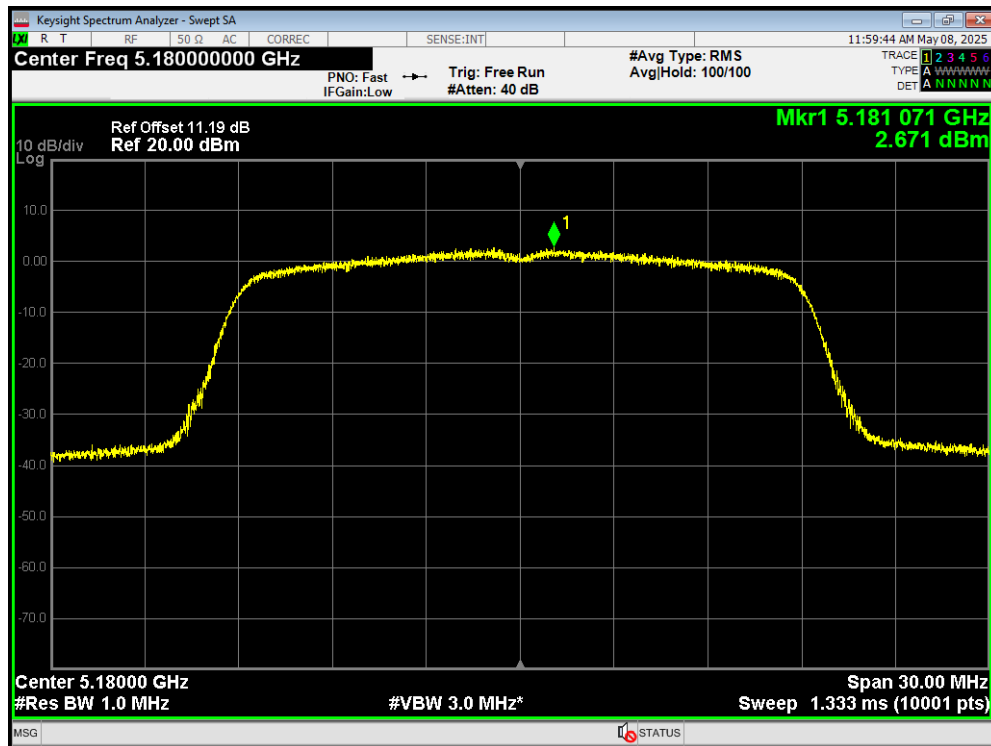
PSD 802.11a 5200MHz



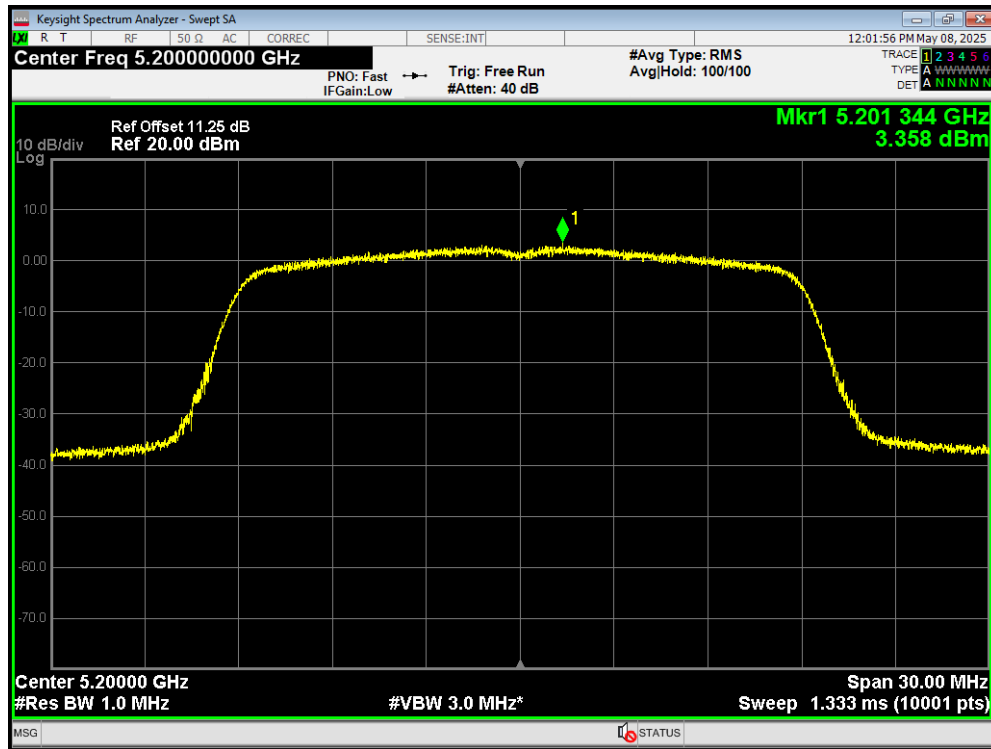
PSD 802.11a 5240MHz



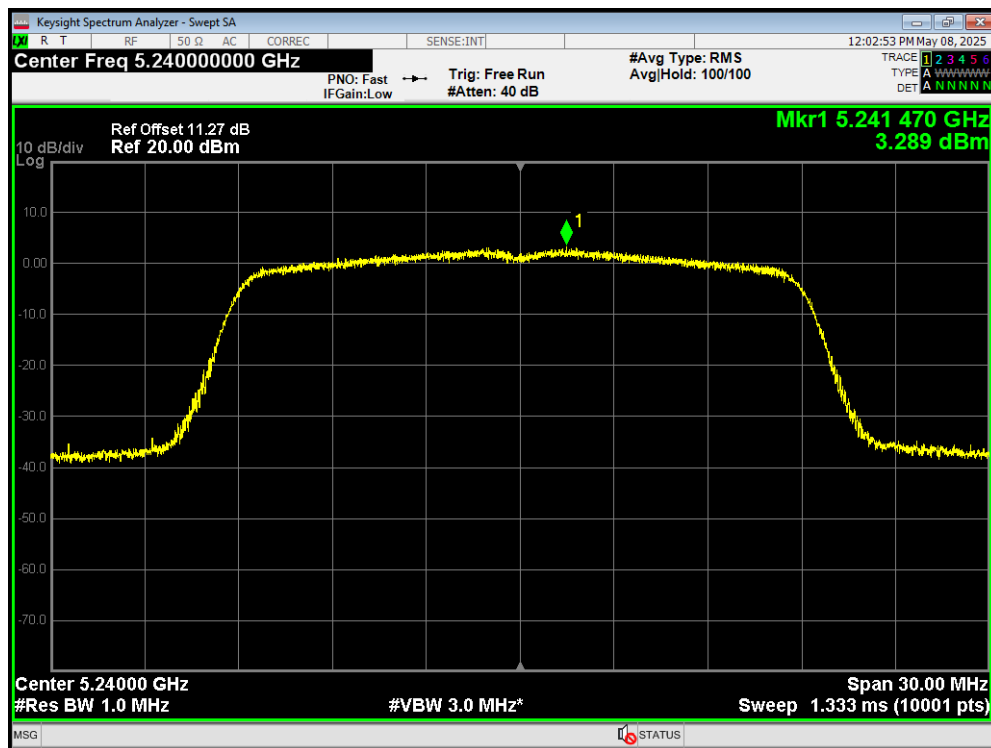
PSD 802.11ac(VHT20) 5180MHz



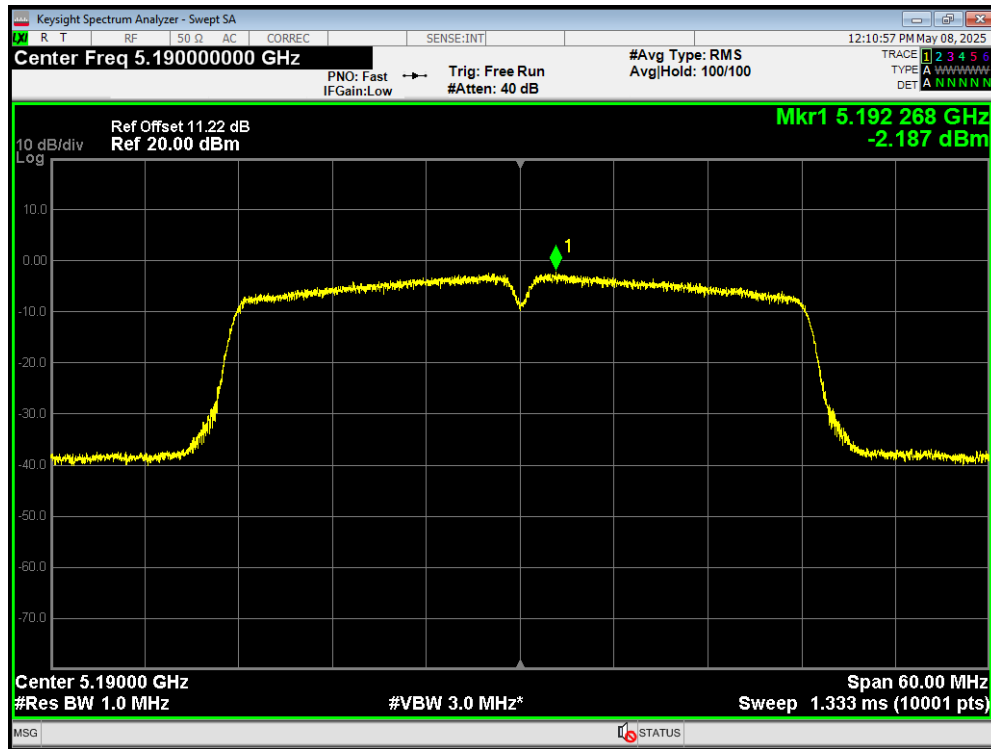
PSD 802.11ac(VHT20) 5200MHz



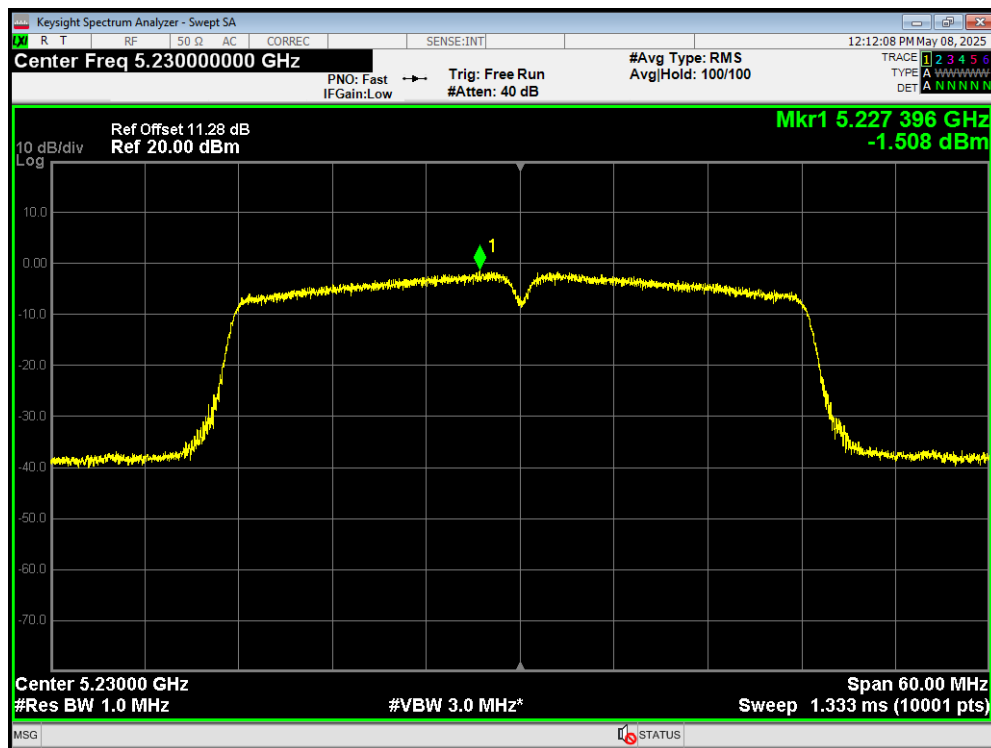
PSD 802.11ac(VHT20) 5240MHz



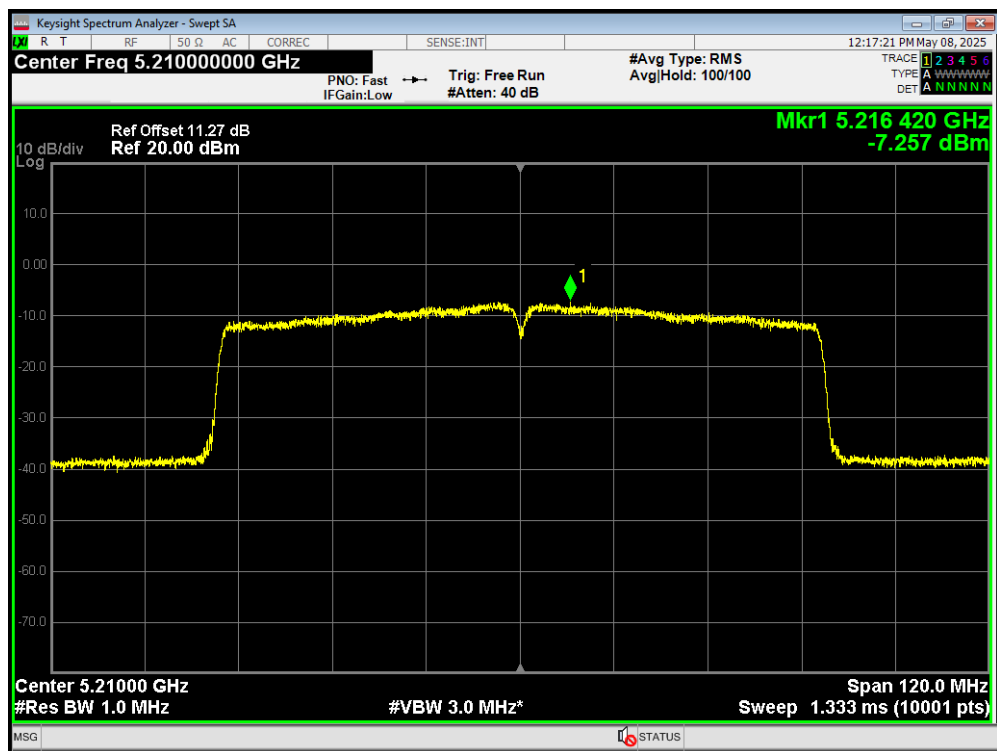
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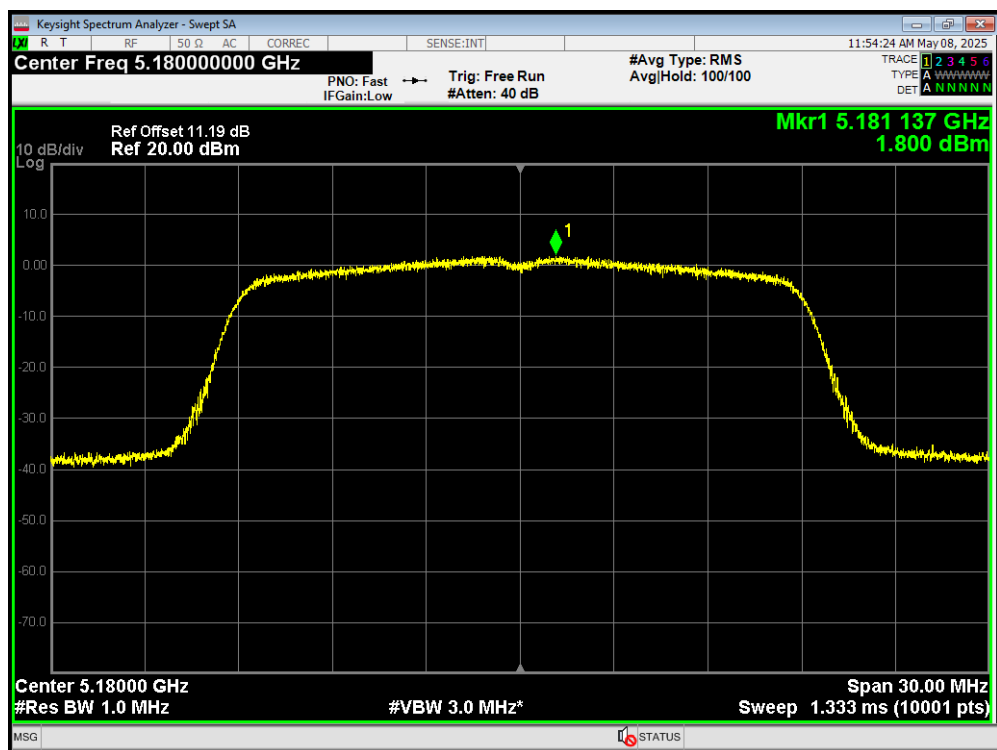
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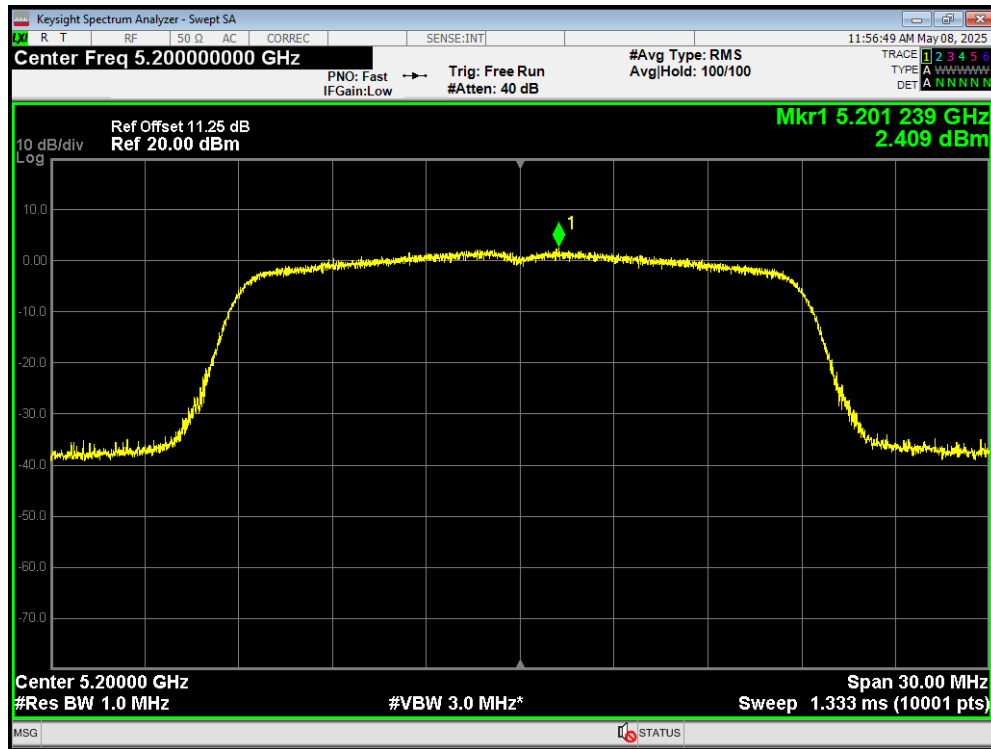
PSD 802.11ac(VHT80) 5210MHz



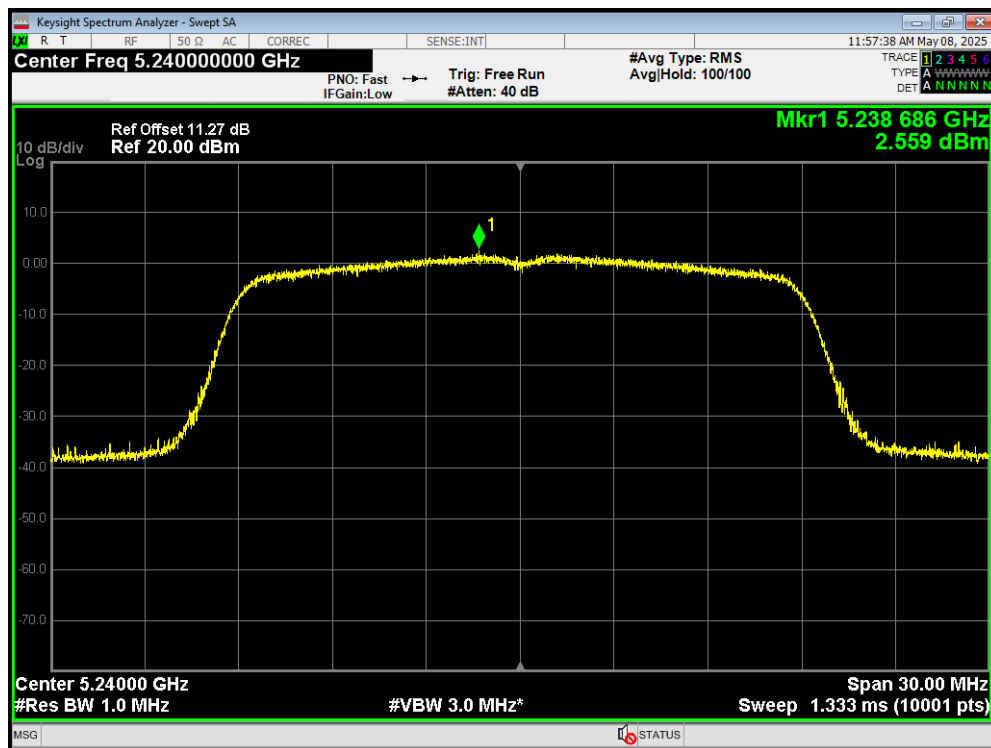
PSD 802.11n(HT20) 5180MHz



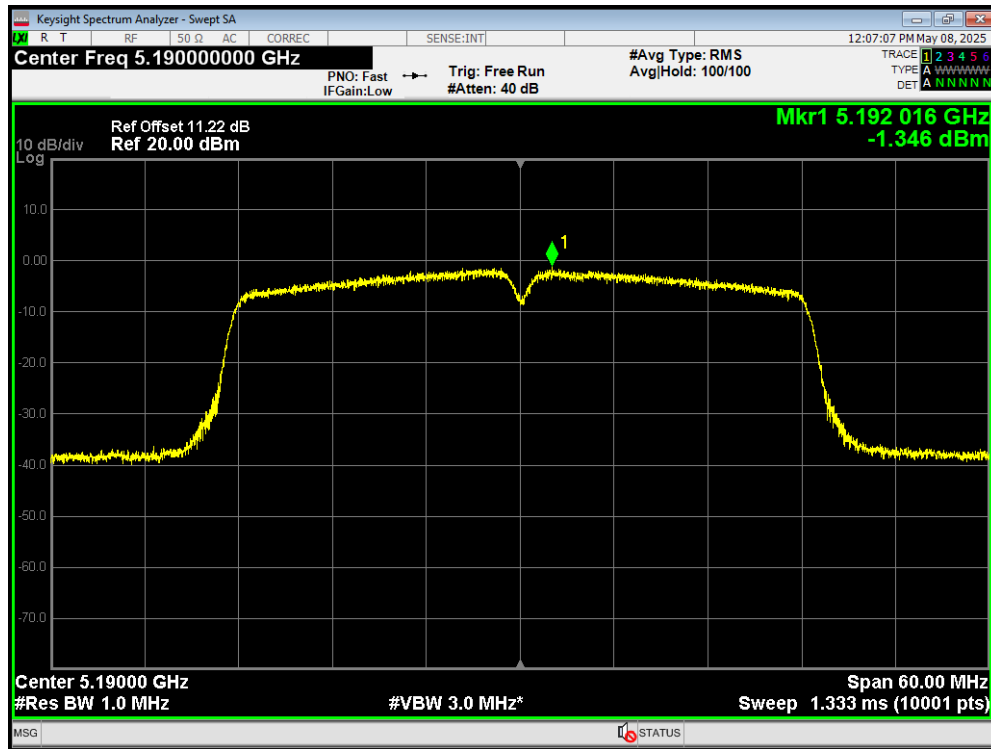
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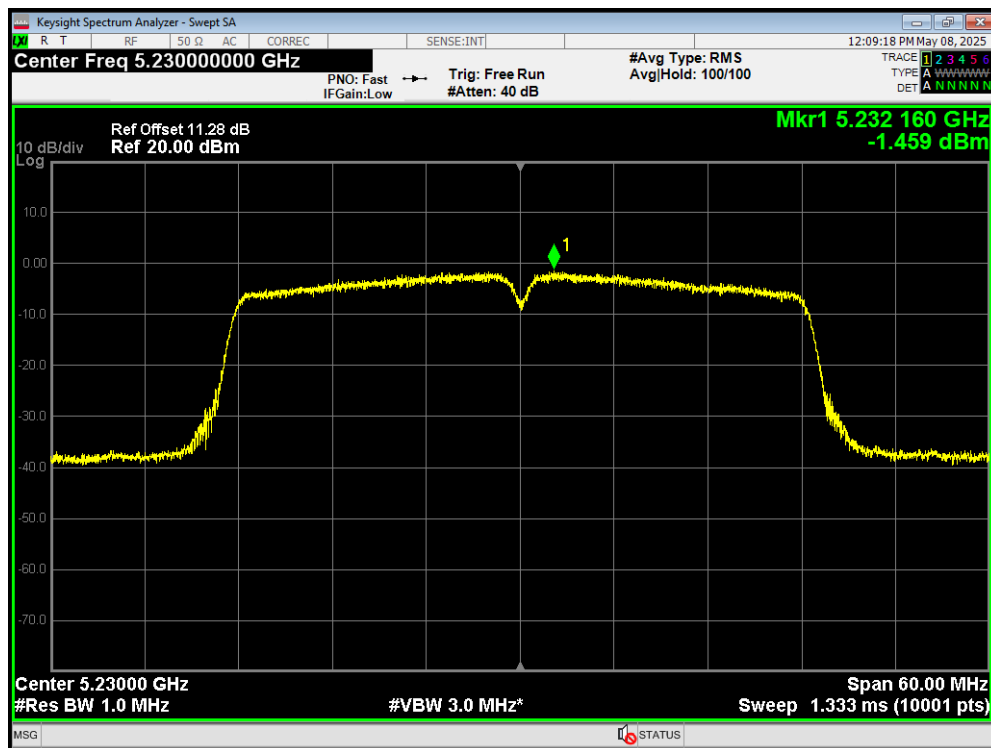
PSD 802.11n(HT20) 5240MHz



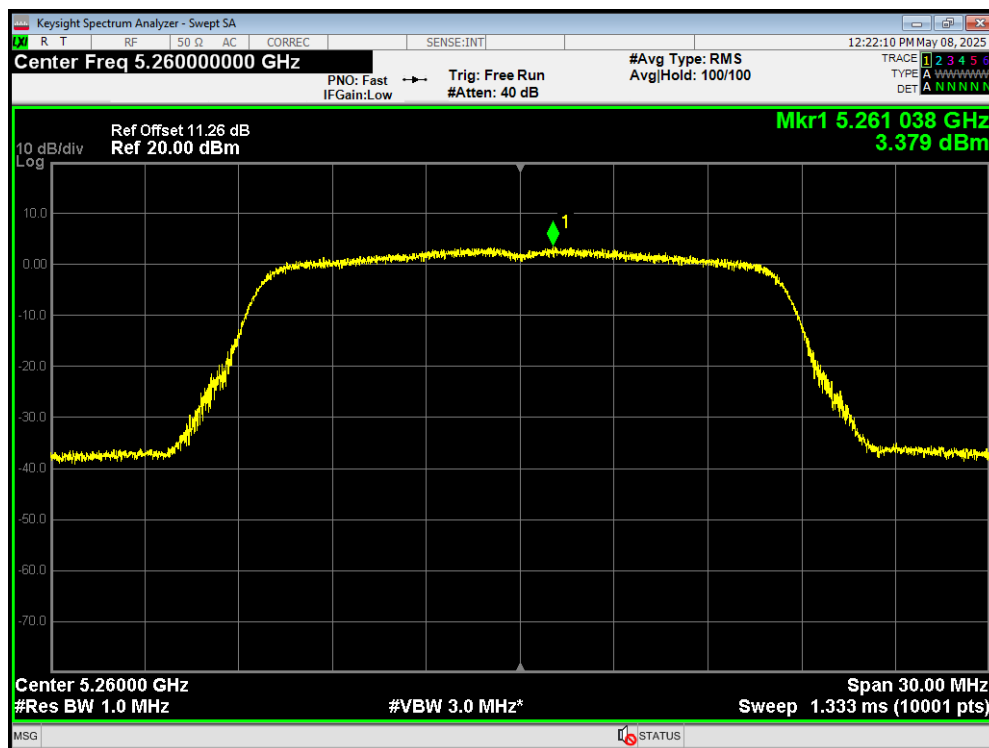
PSD 802.11n(HT40) 5190MHz



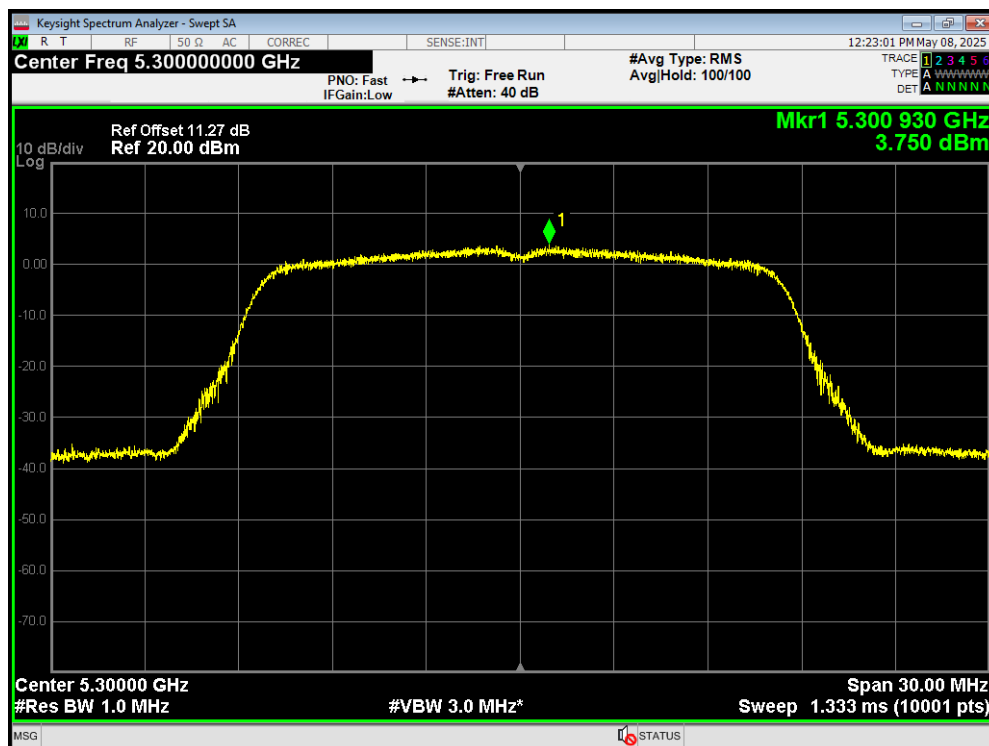
PSD 802.11n(HT40) 5230MHz



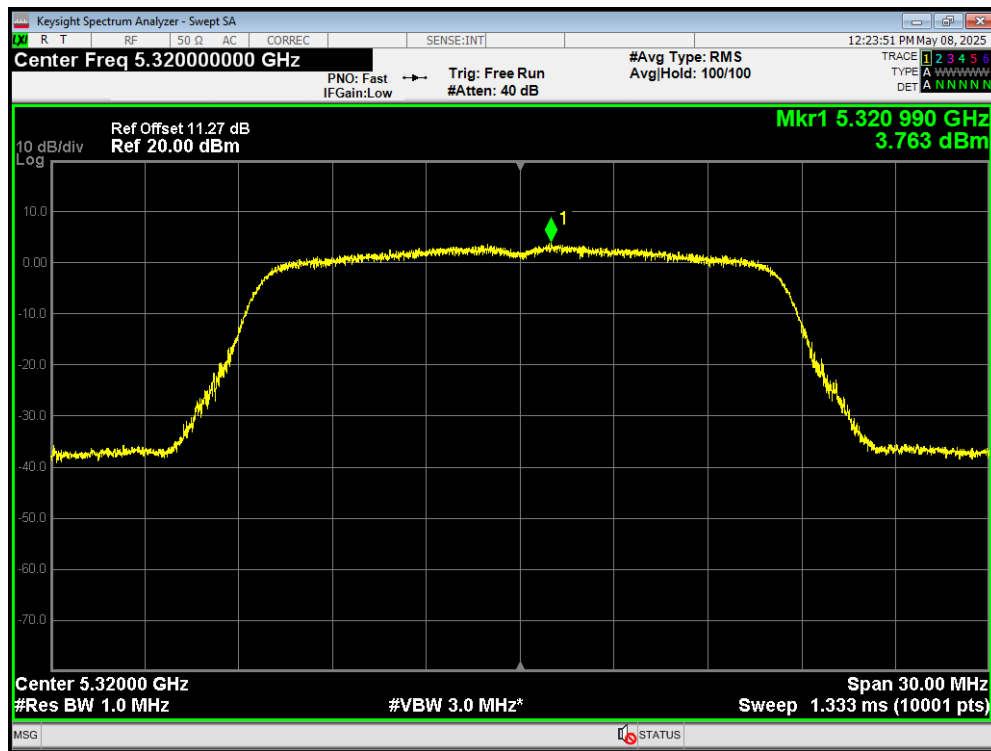
PSD 802.11a 5260MHz



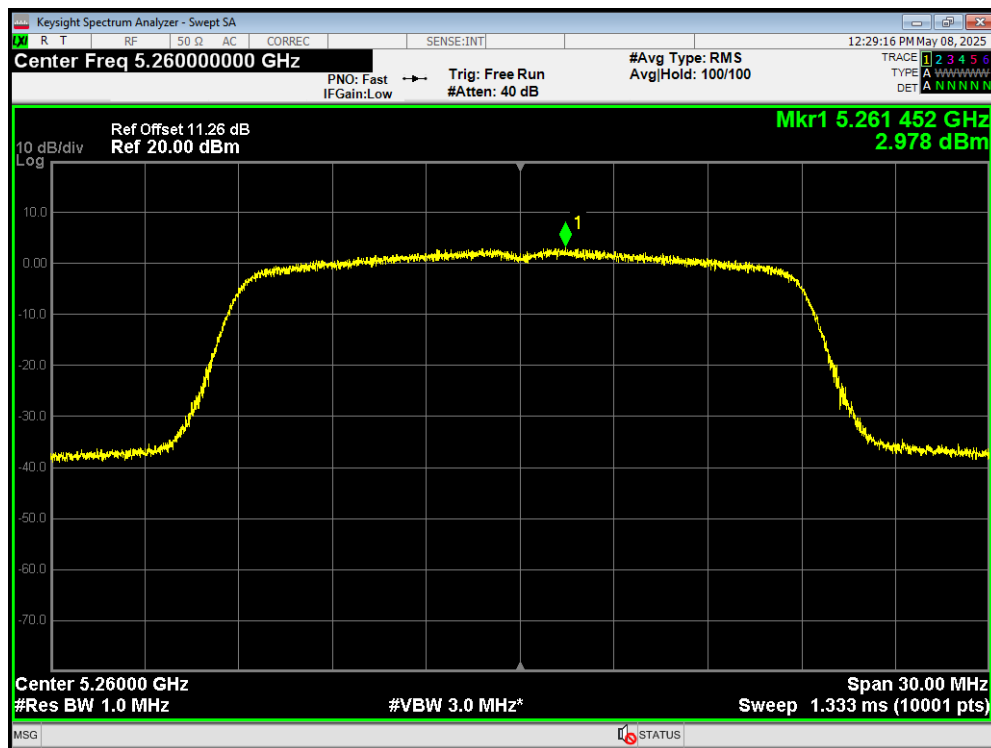
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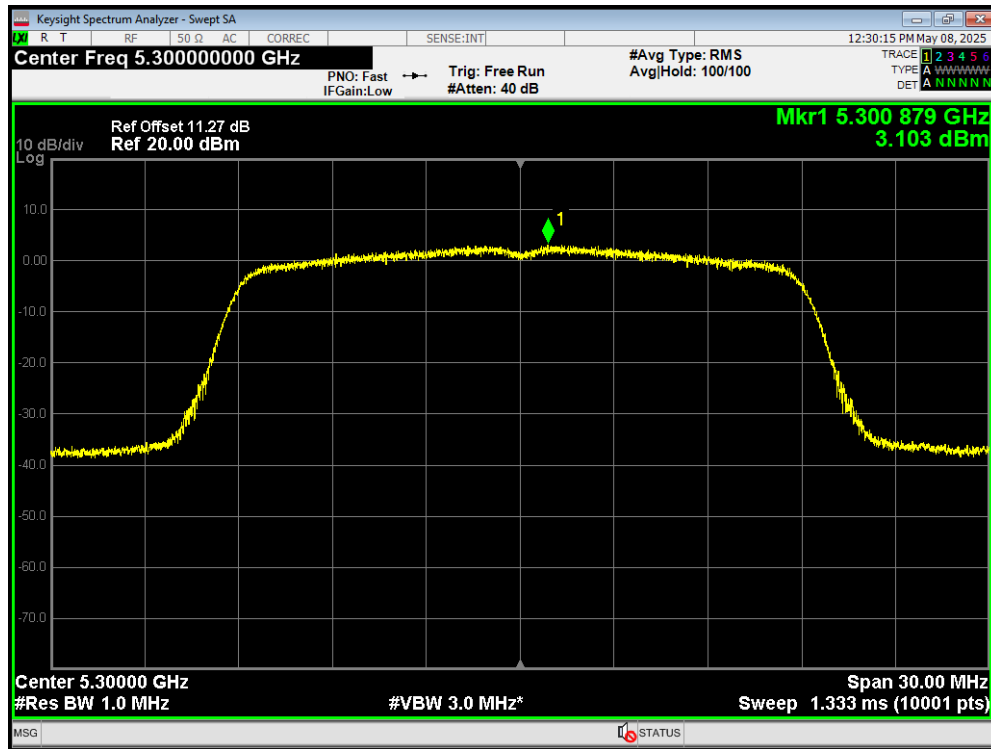
PSD 802.11a 5320MHz



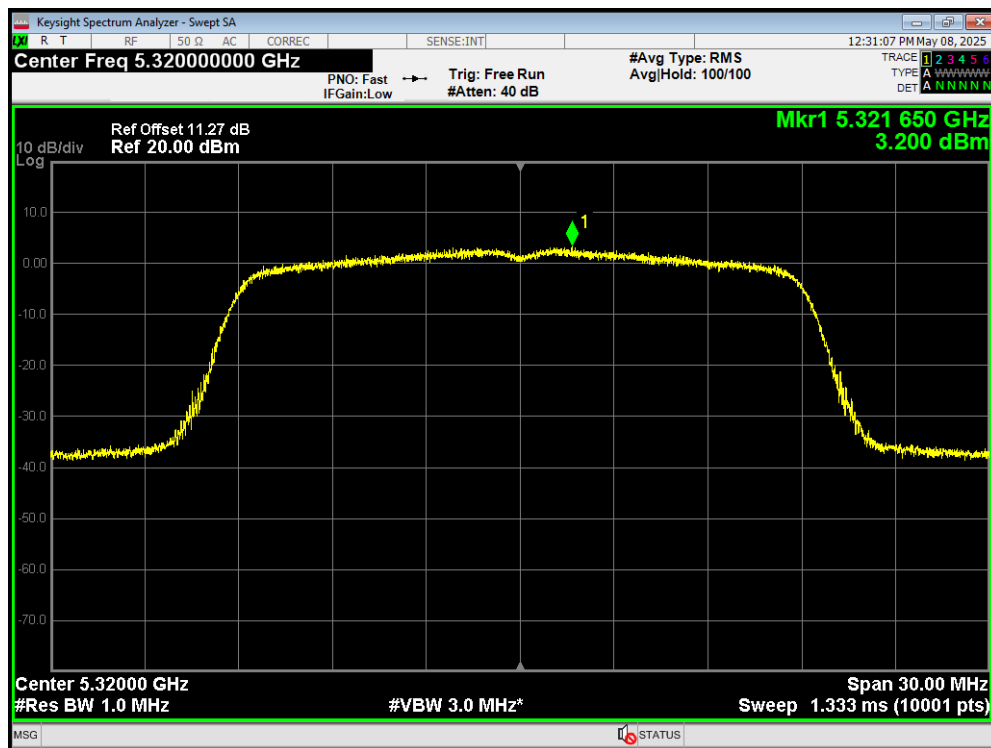
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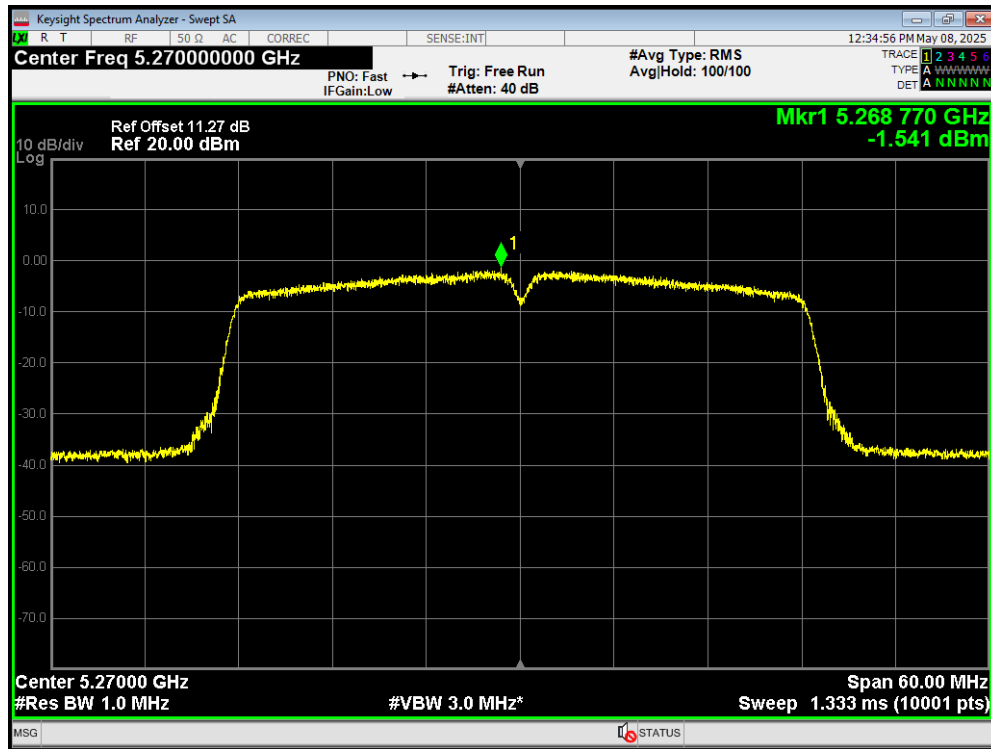
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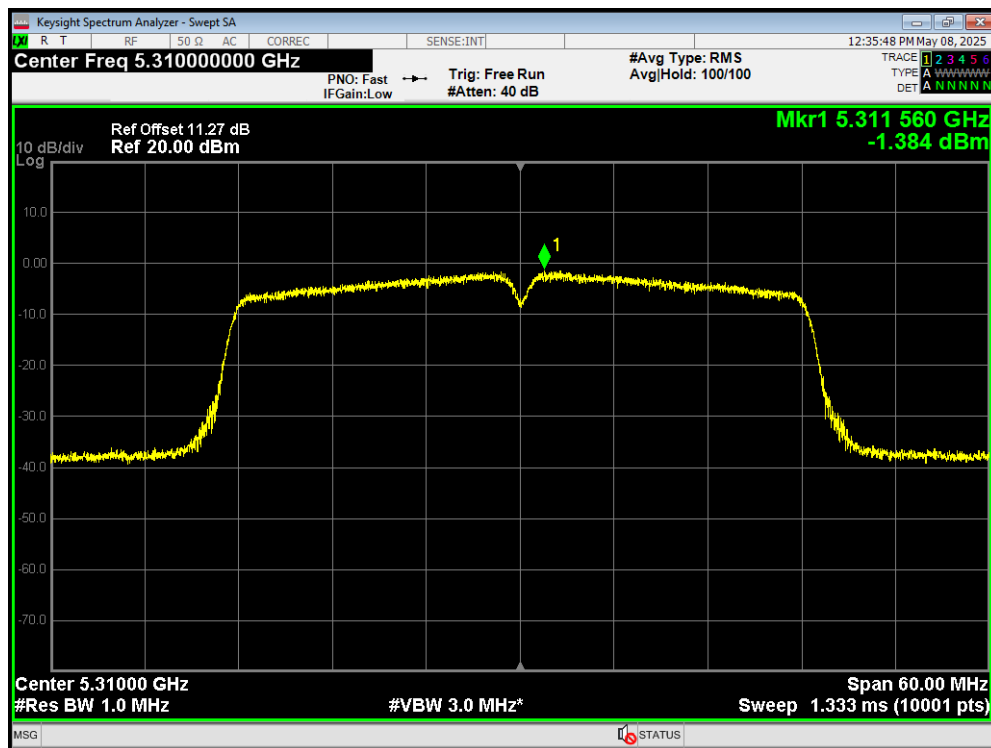
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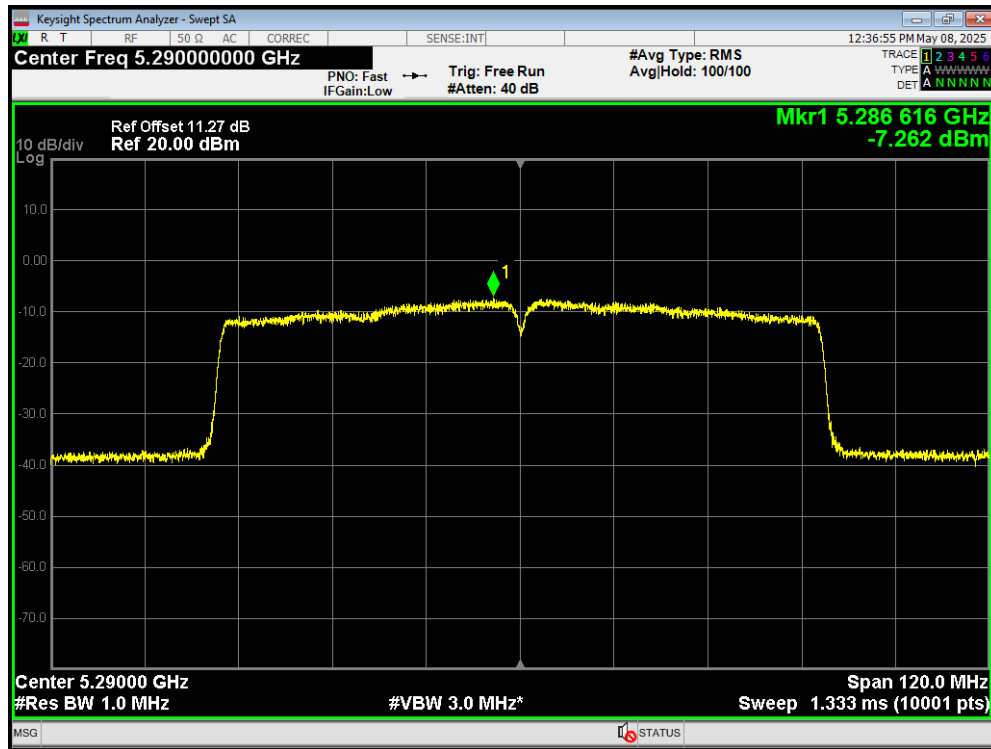
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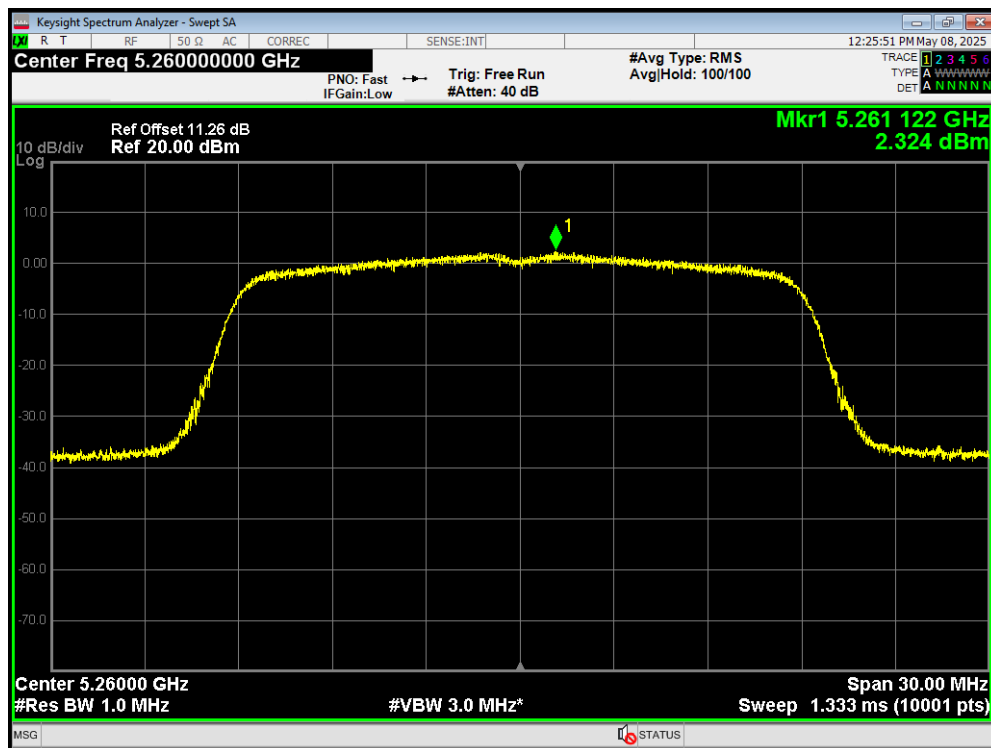
PSD 802.11ac(VHT40) 5310MHz



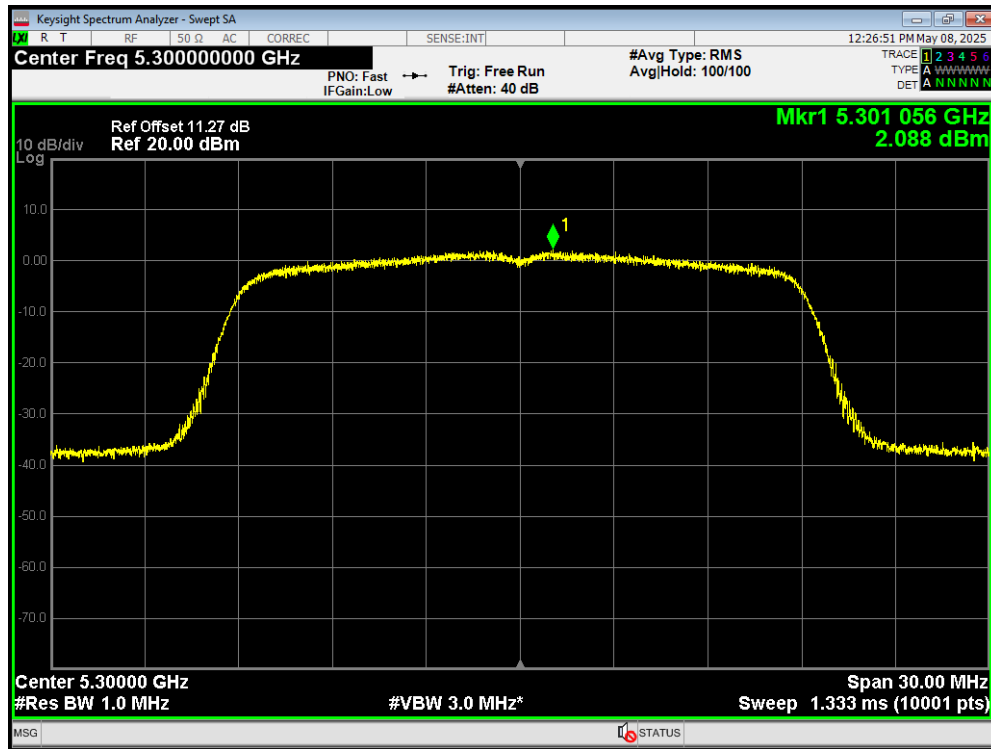
PSD 802.11ac(VHT80) 5290MHz



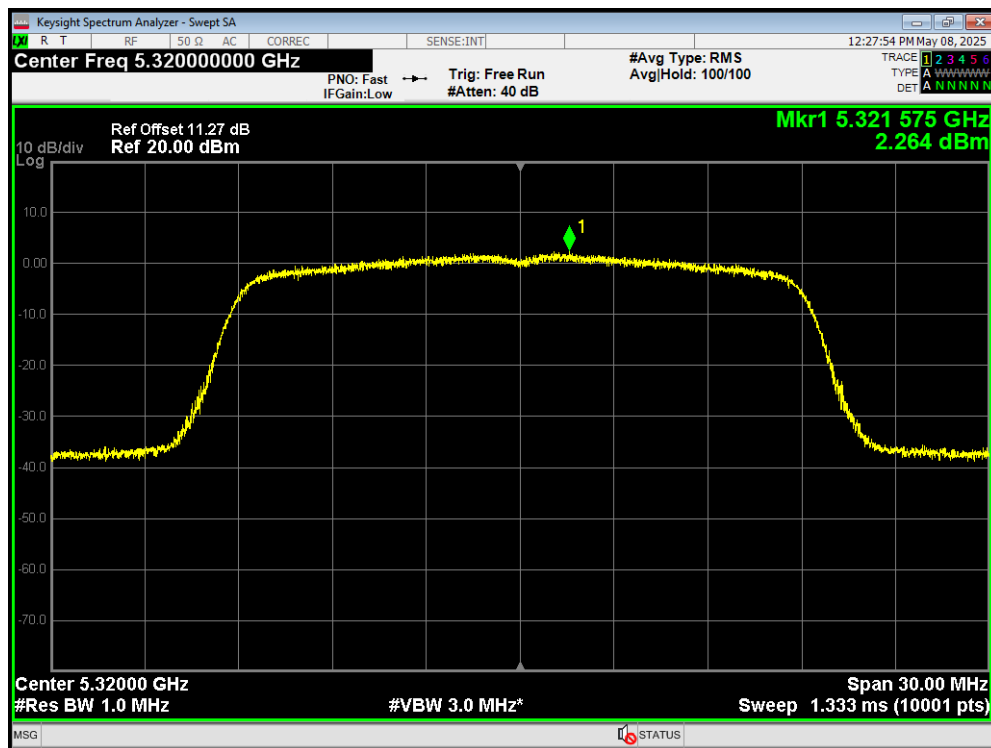
PSD 802.11n(HT20) 5260MHz



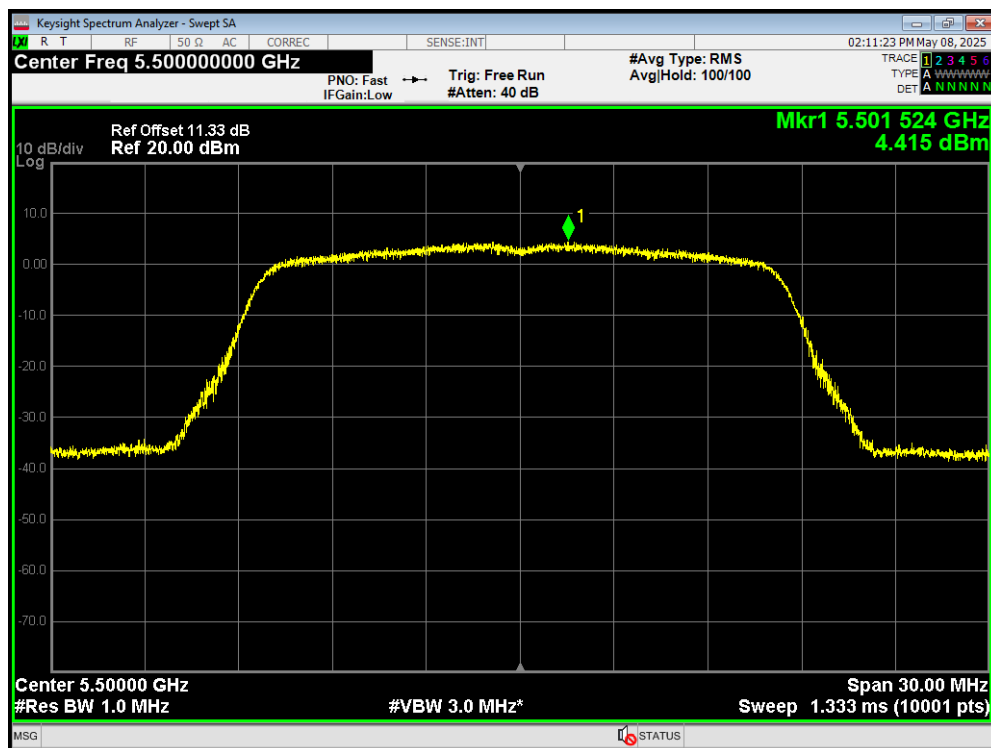
PSD 802.11n(HT20) 5300MHz



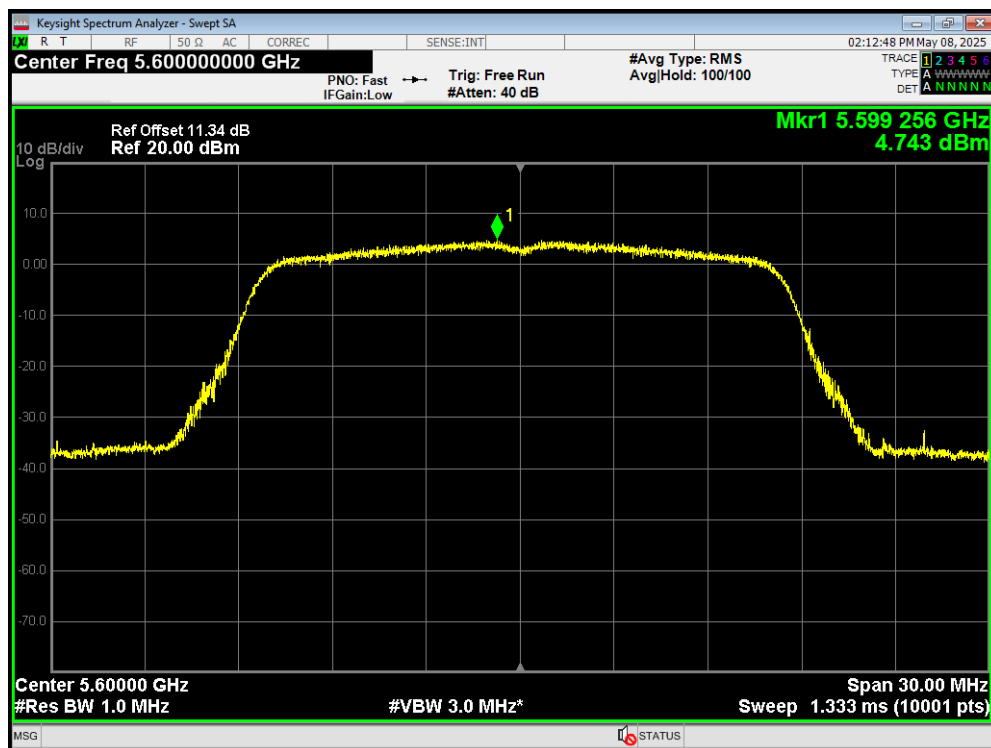
PSD 802.11n(HT20) 5320MHz



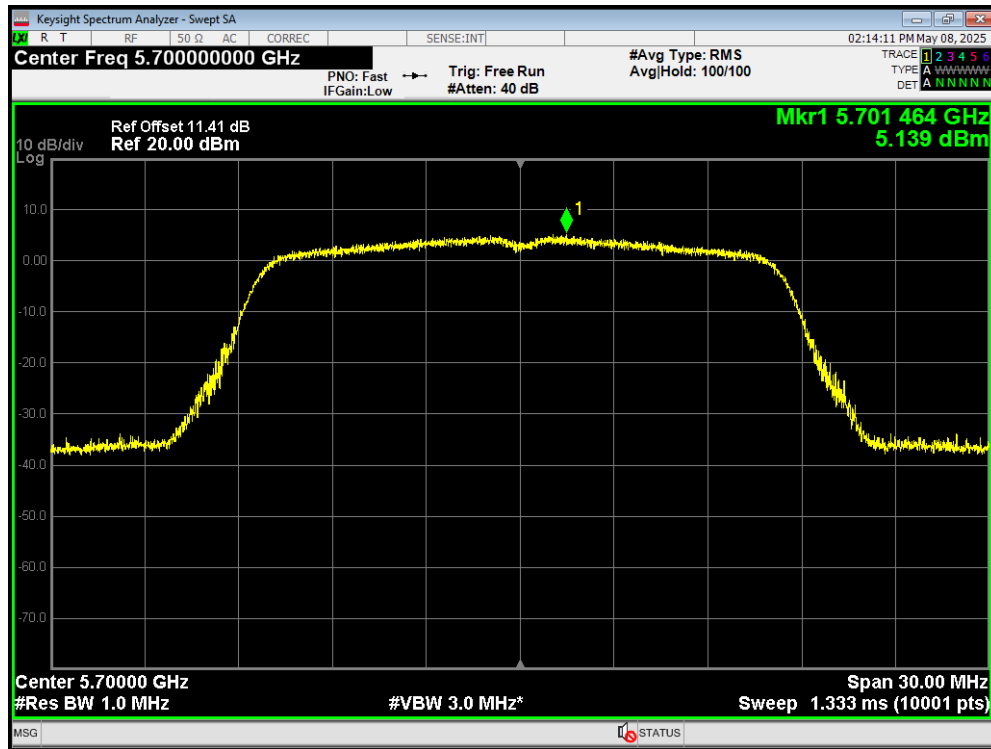
PSD 802.11a 5500MHz



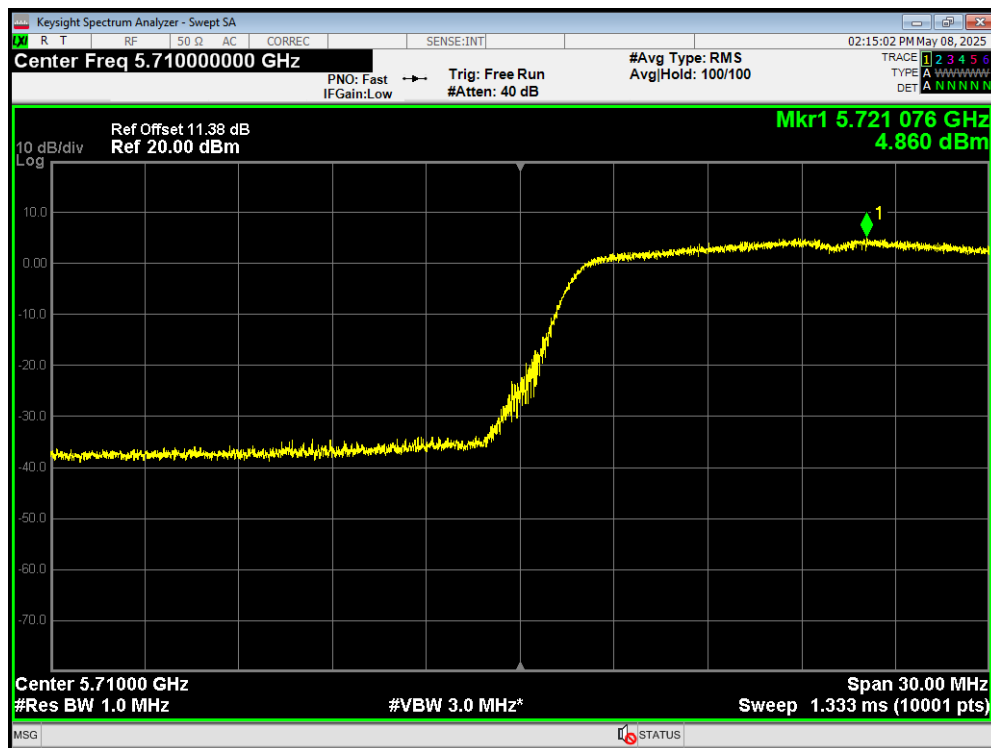
PSD 802.11a 5600MHz



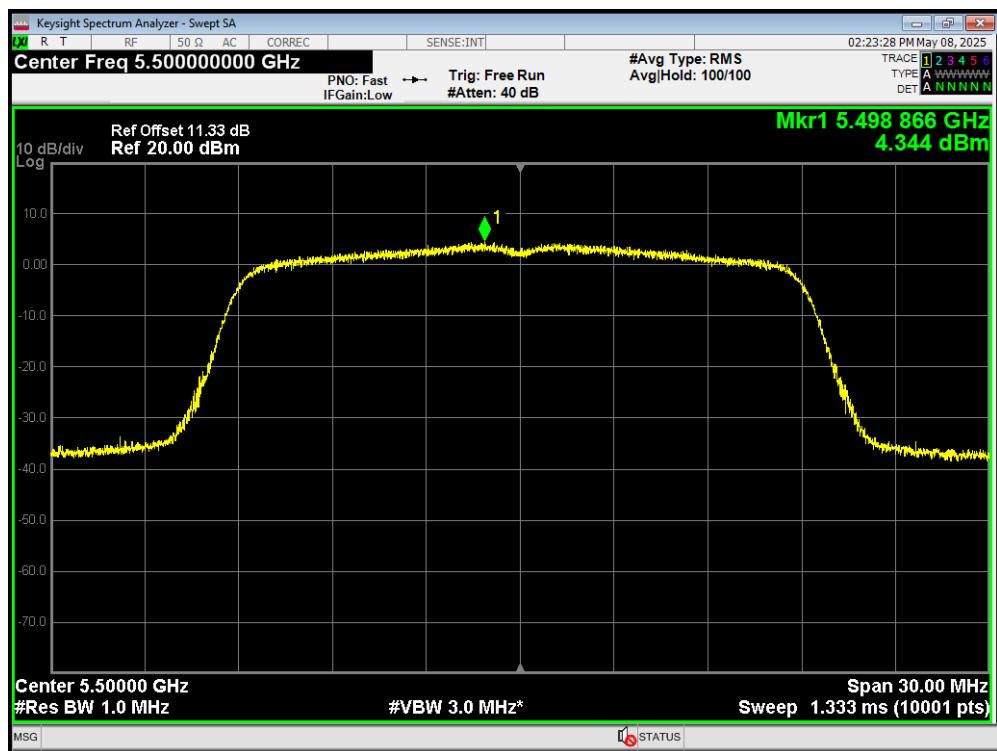
PSD 802.11a 5700MHz



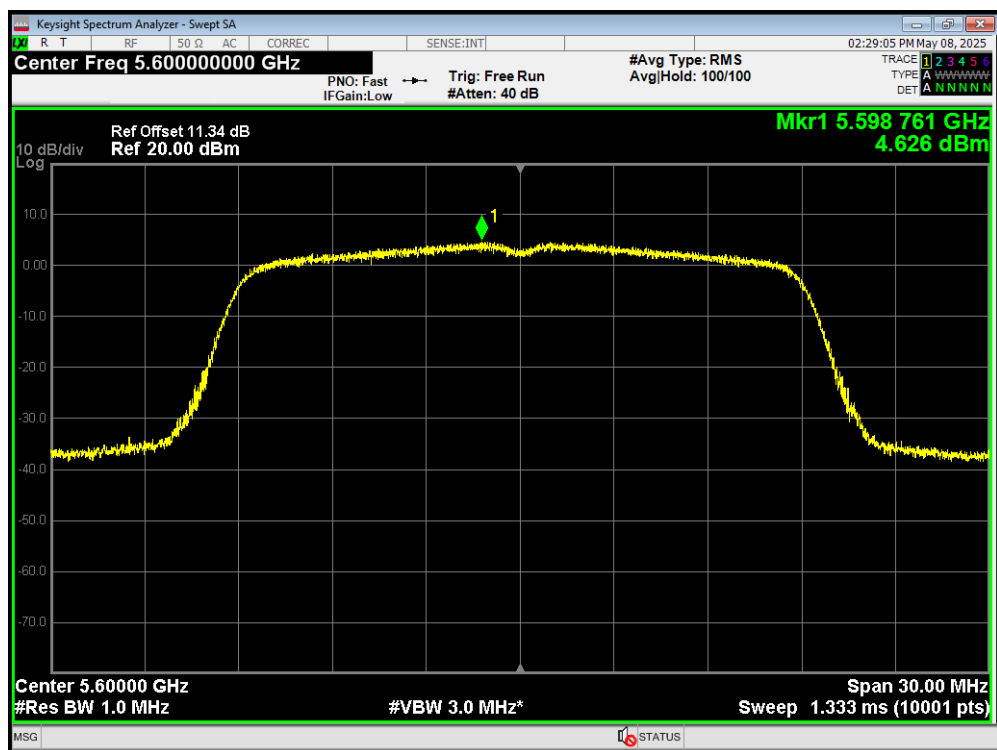
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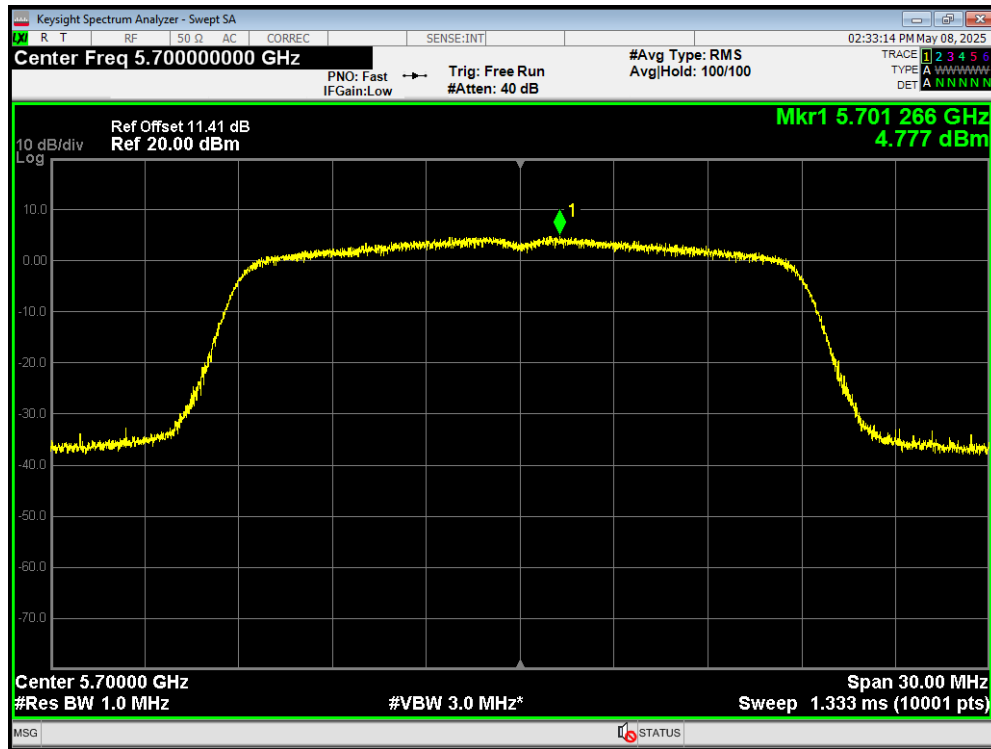
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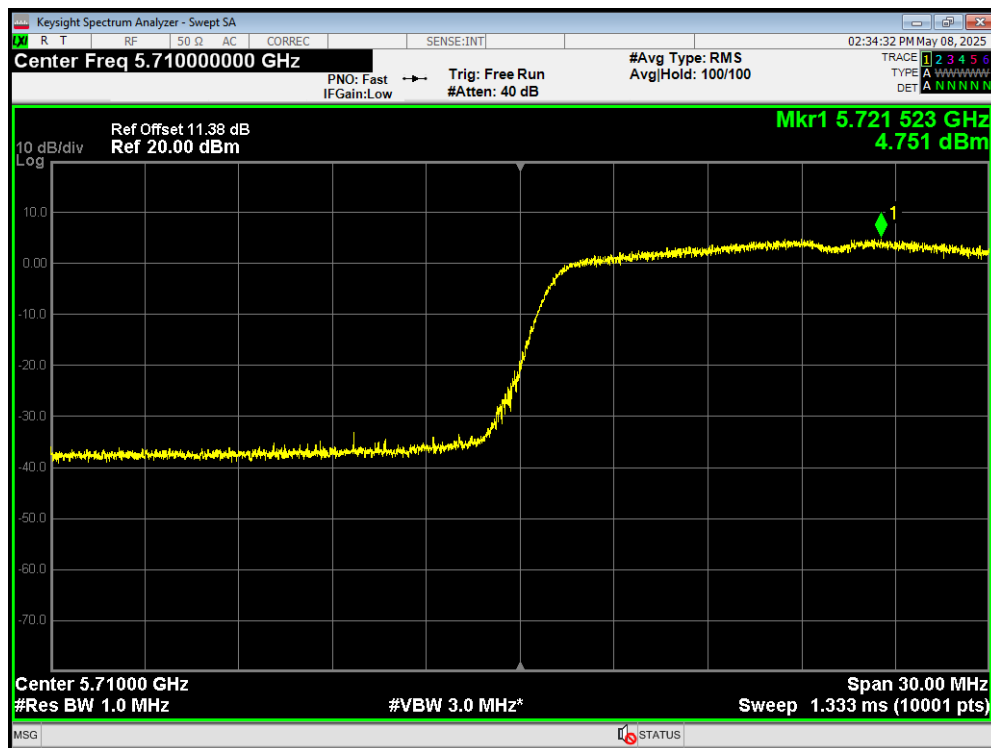
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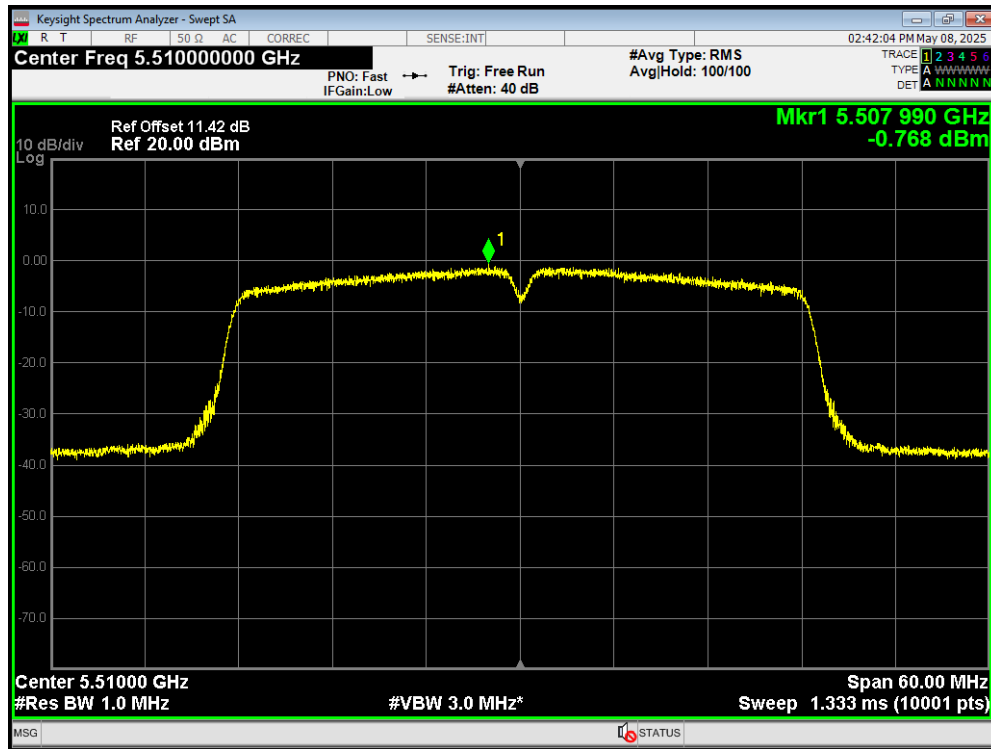
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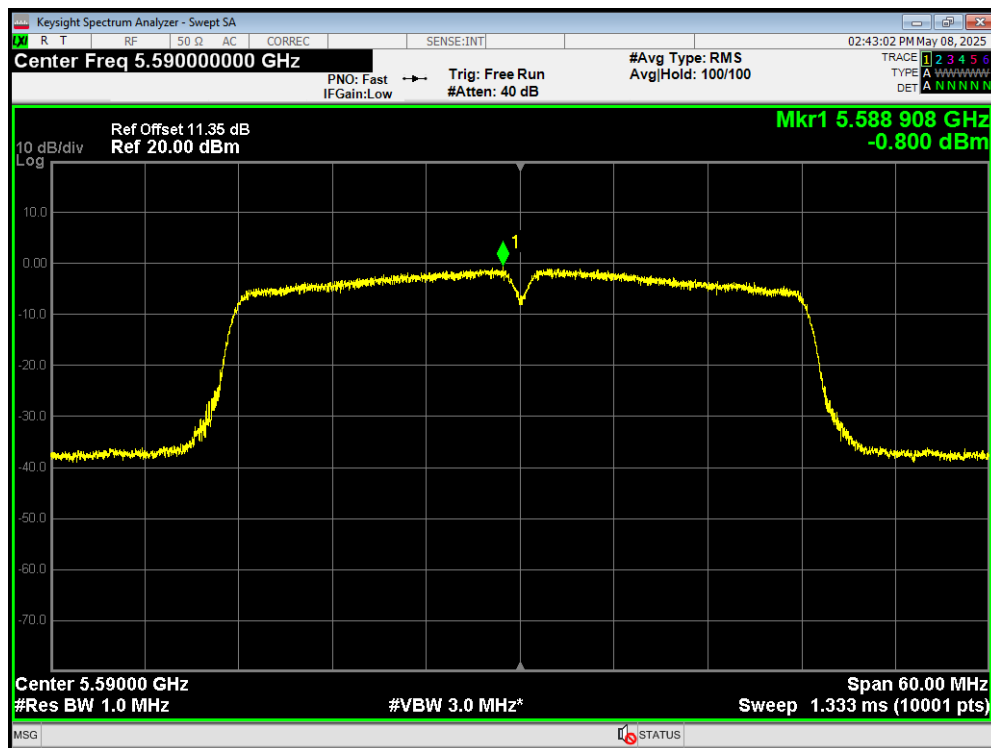
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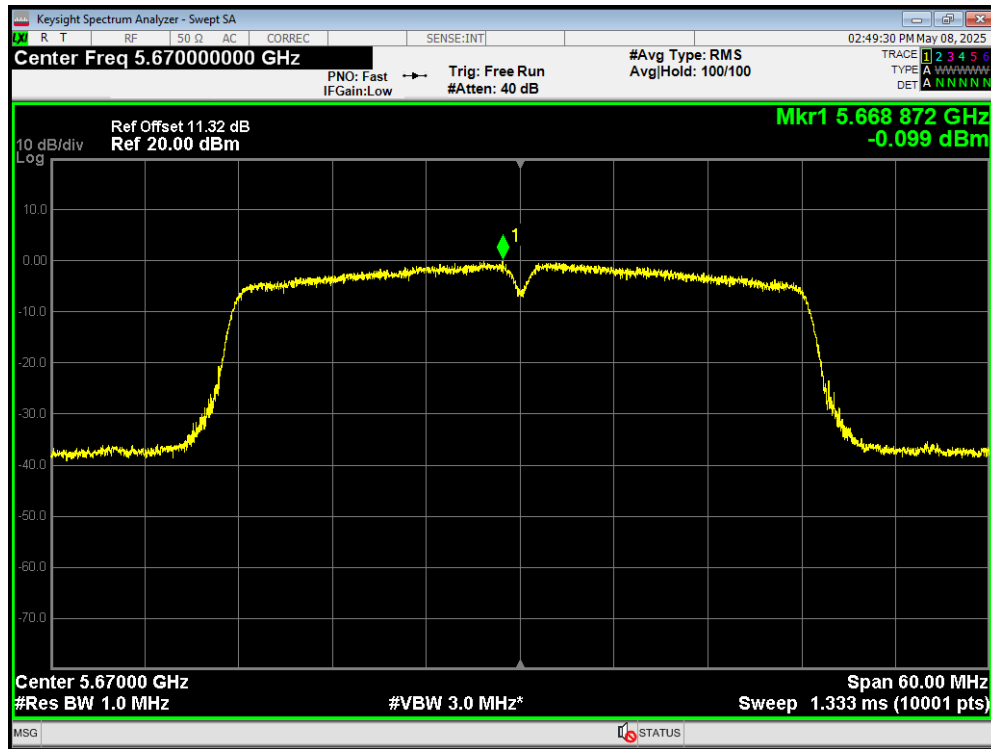
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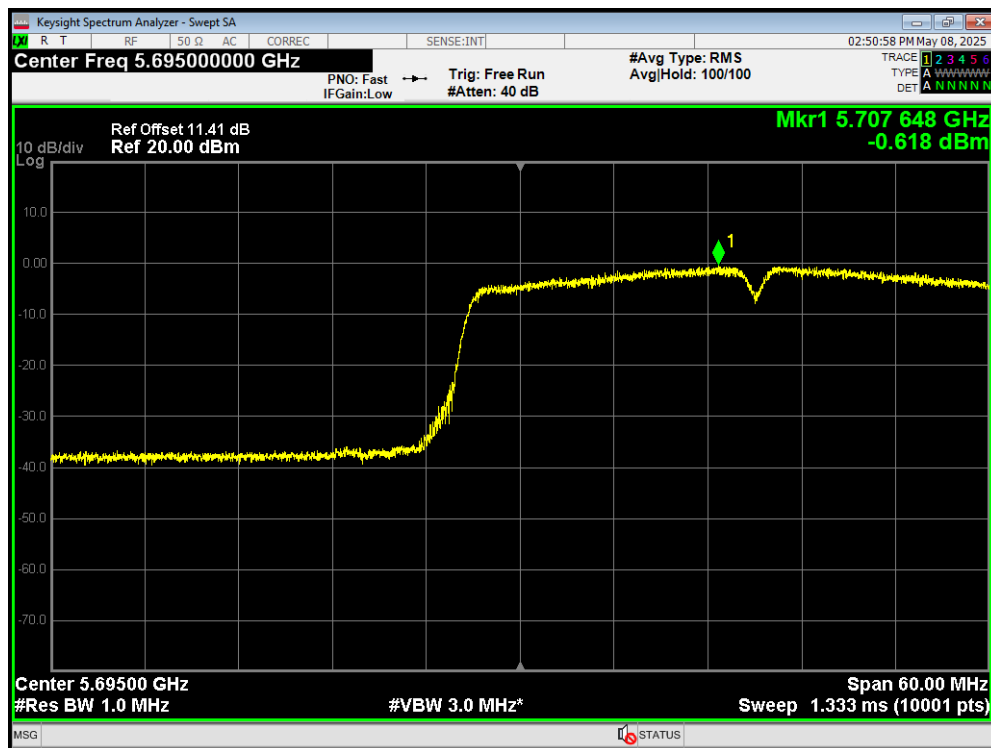
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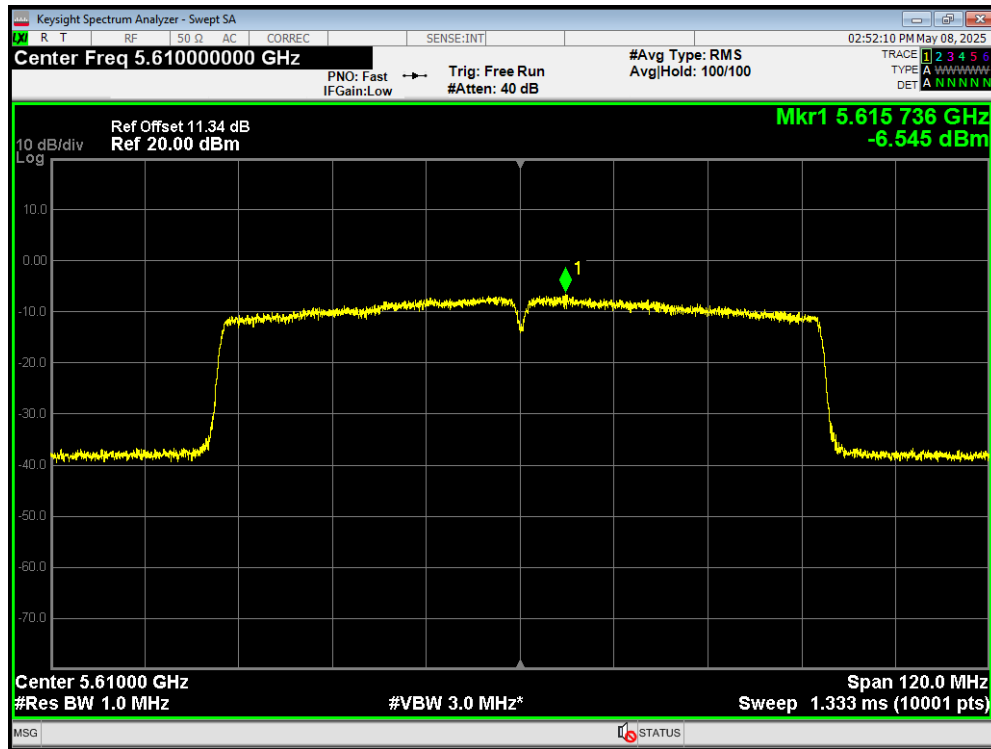
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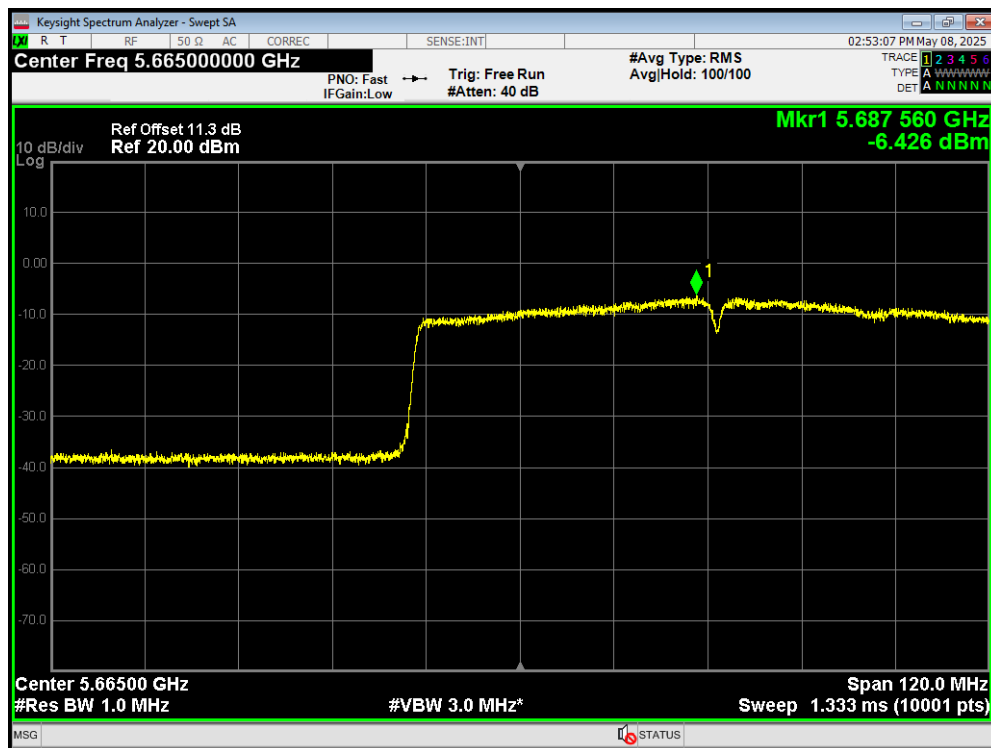
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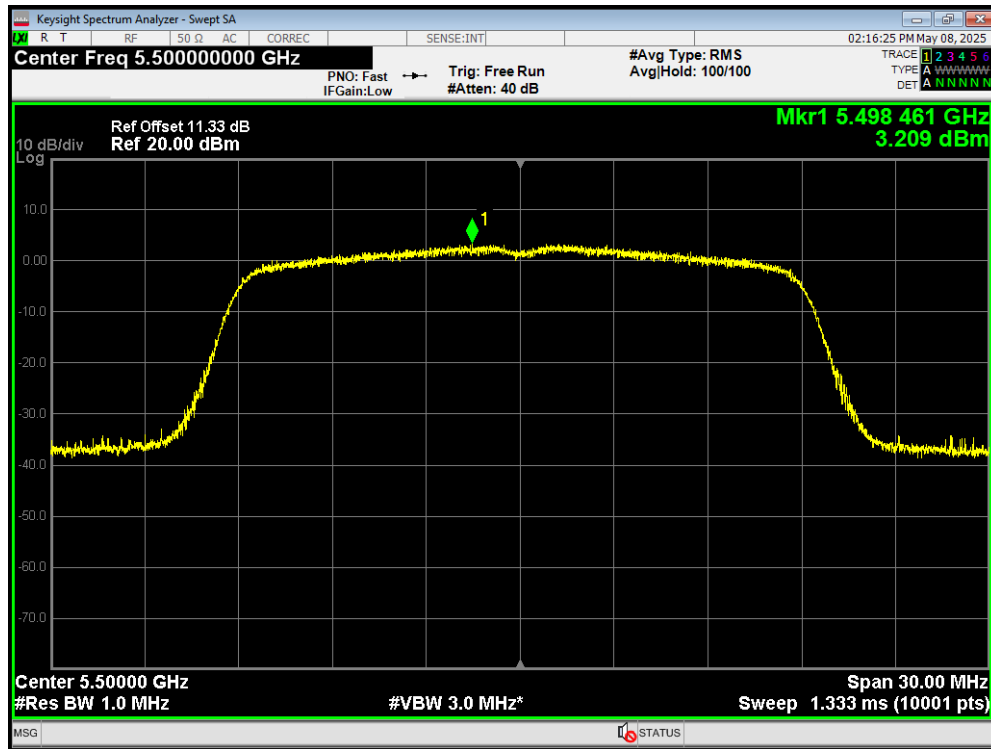
PSD 802.11ac(VHT80) 5610MHz



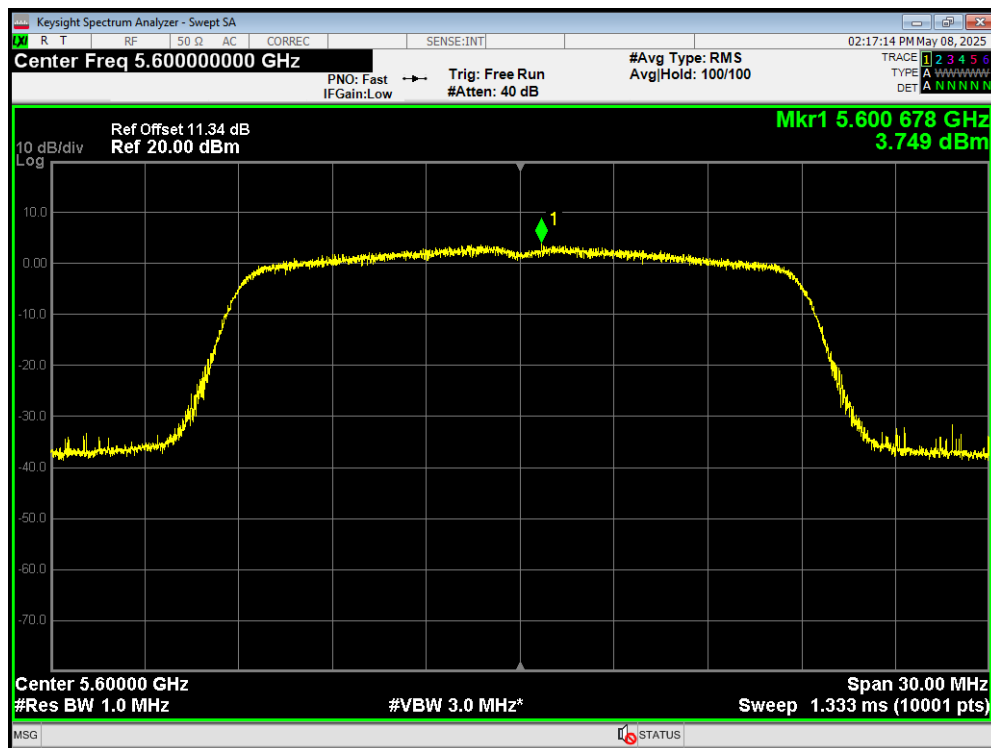
PSD 802.11ac(VHT80) 5665MHz



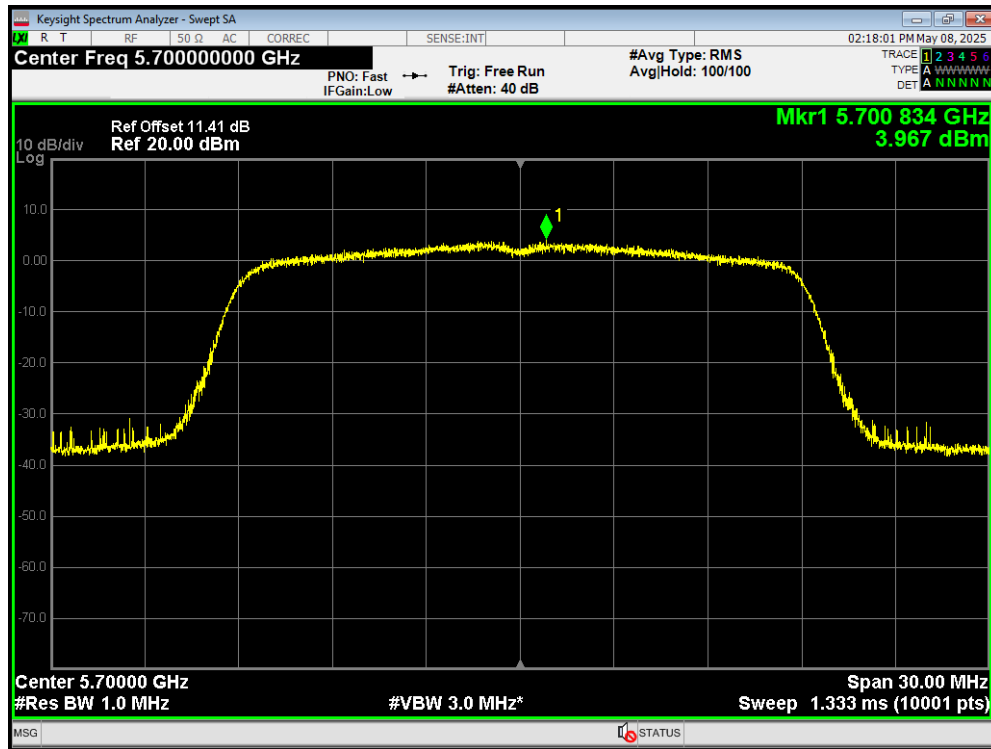
PSD 802.11n(HT20) 5500MHz



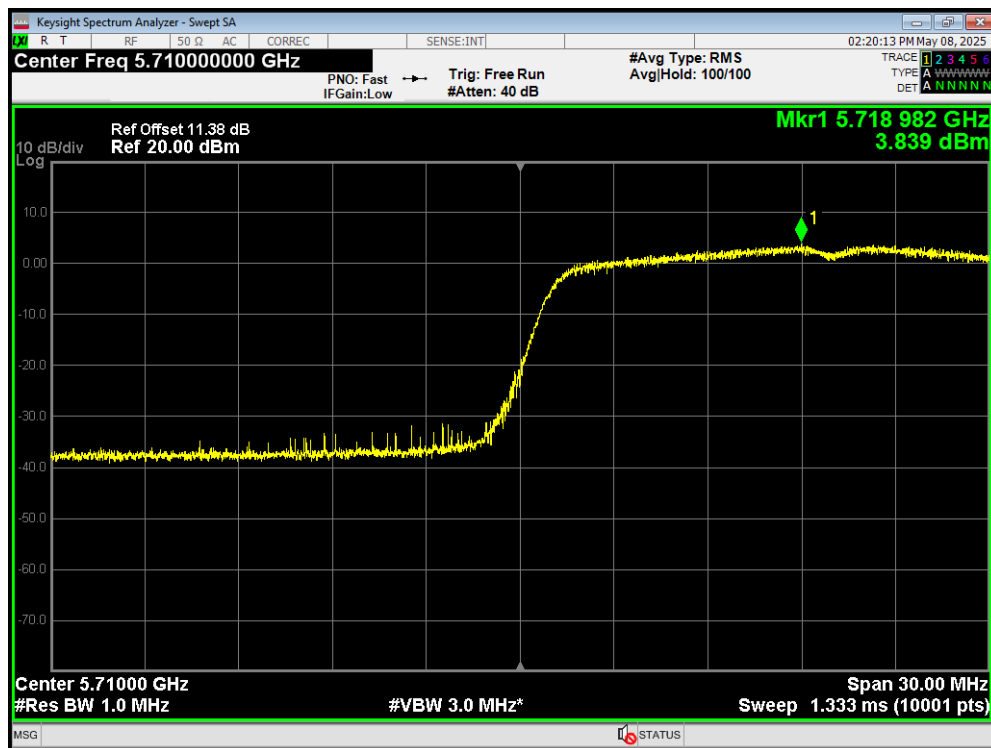
PSD 802.11n(HT20) 5600MHz



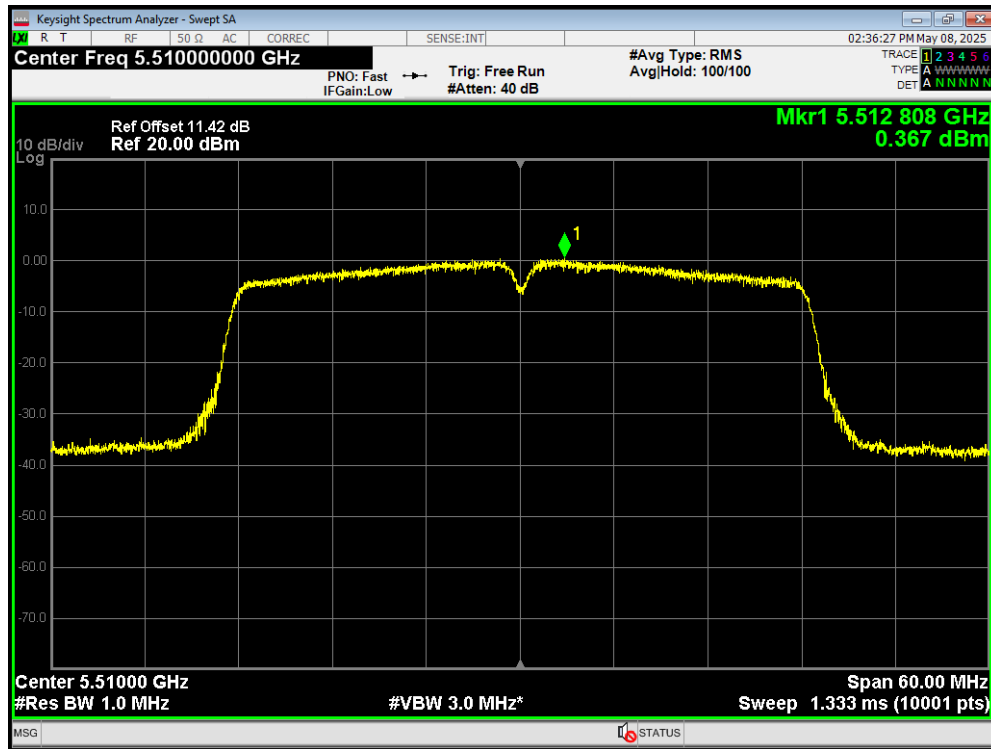
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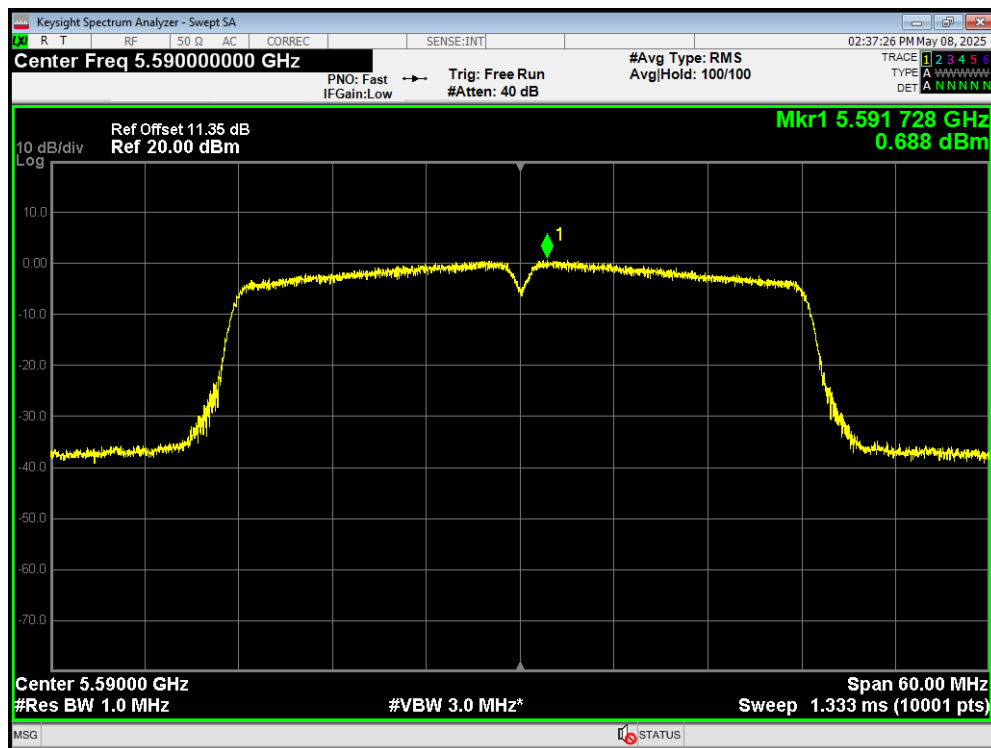
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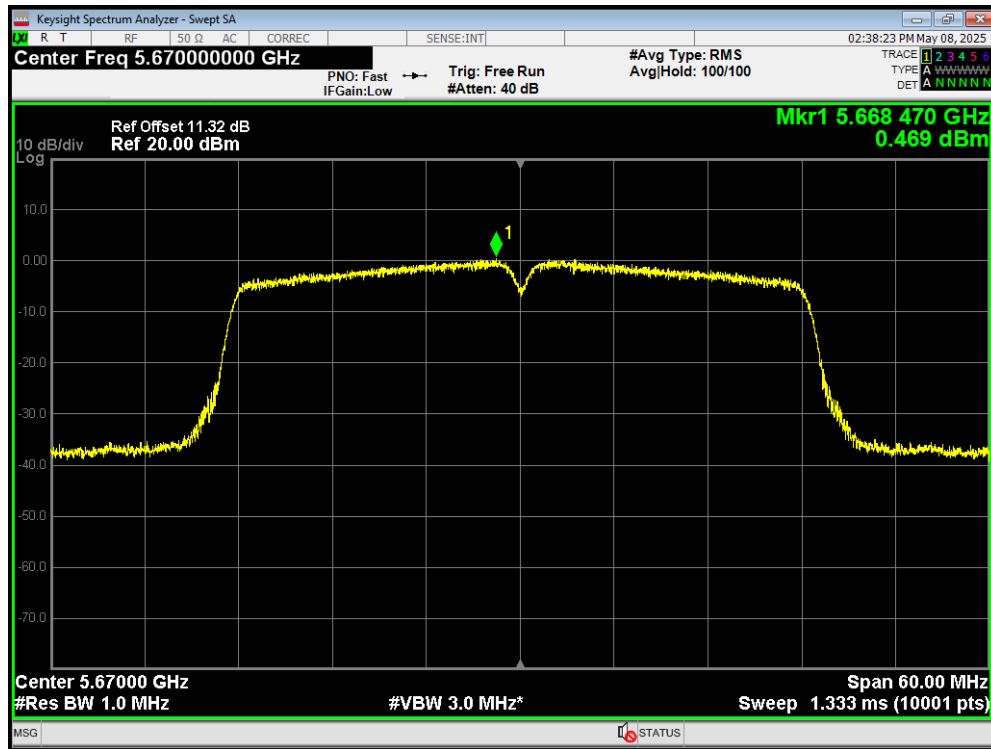
PSD 802.11n(HT40) 5510MHz



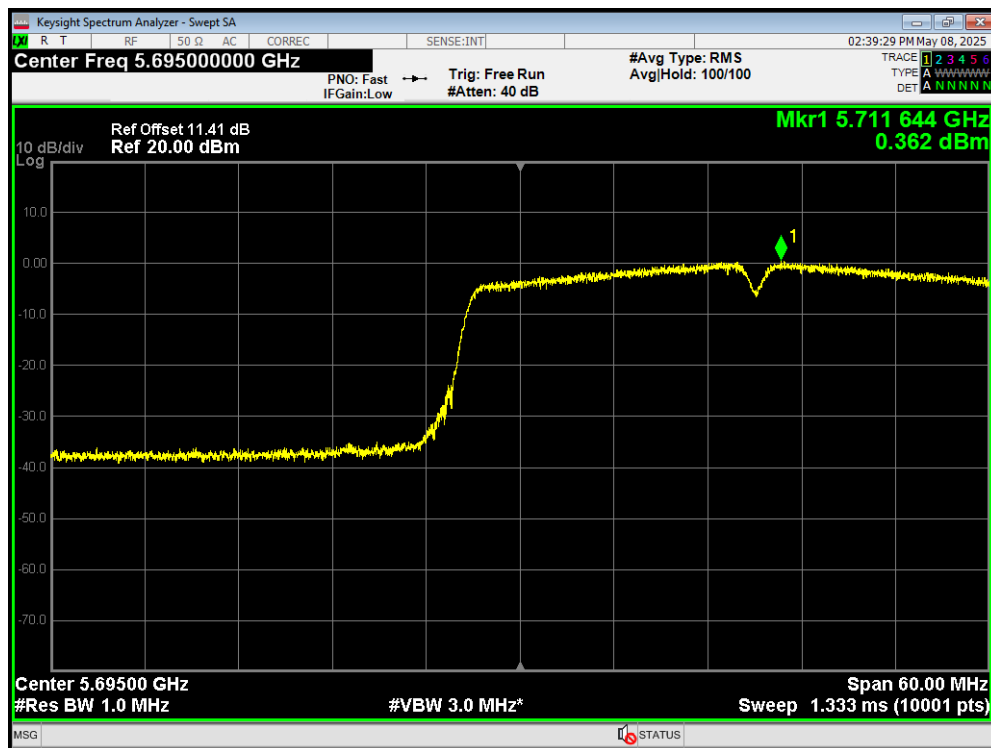
PSD 802.11n(HT40) 5590MHz



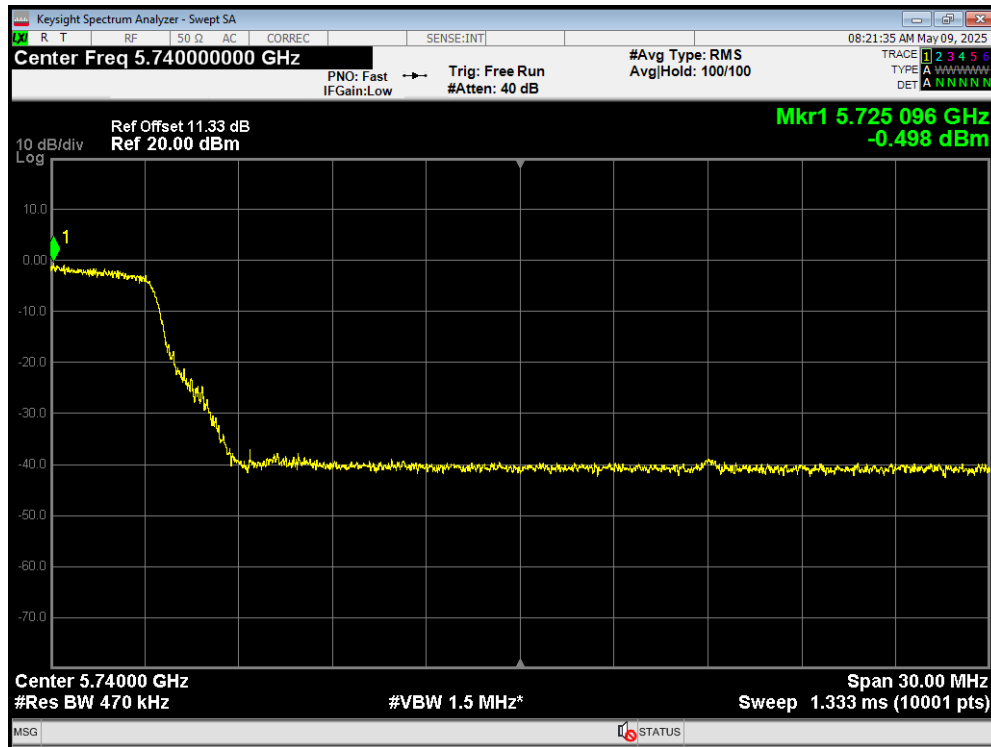
PSD 802.11n(HT40) 5670MHz



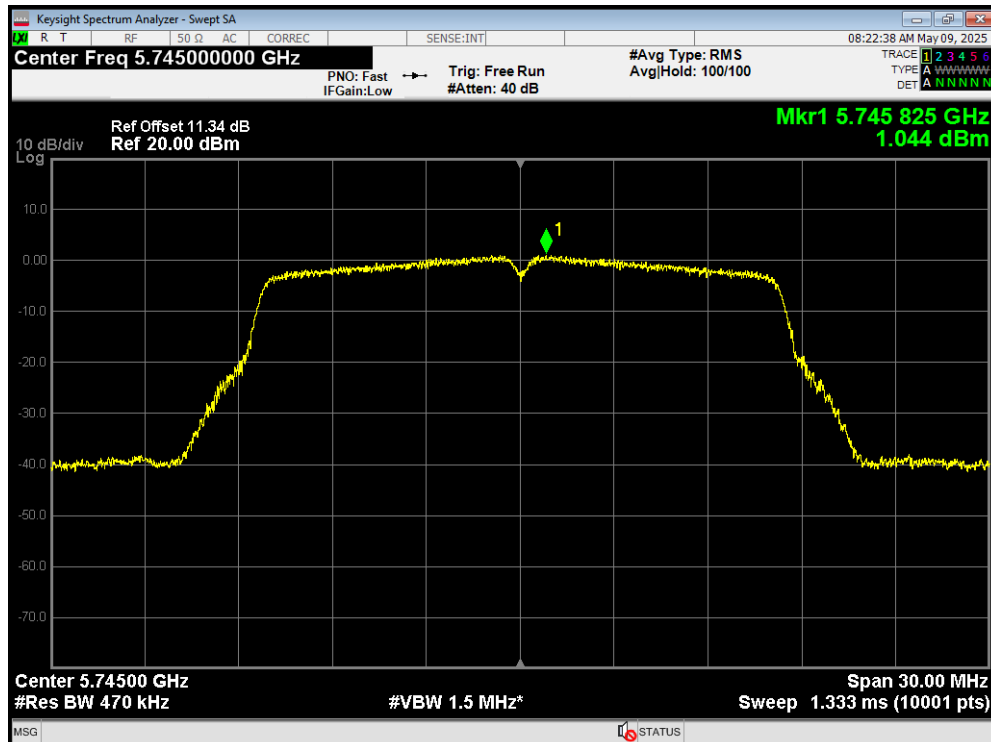
PSD 802.11n(HT40) 5695MHz



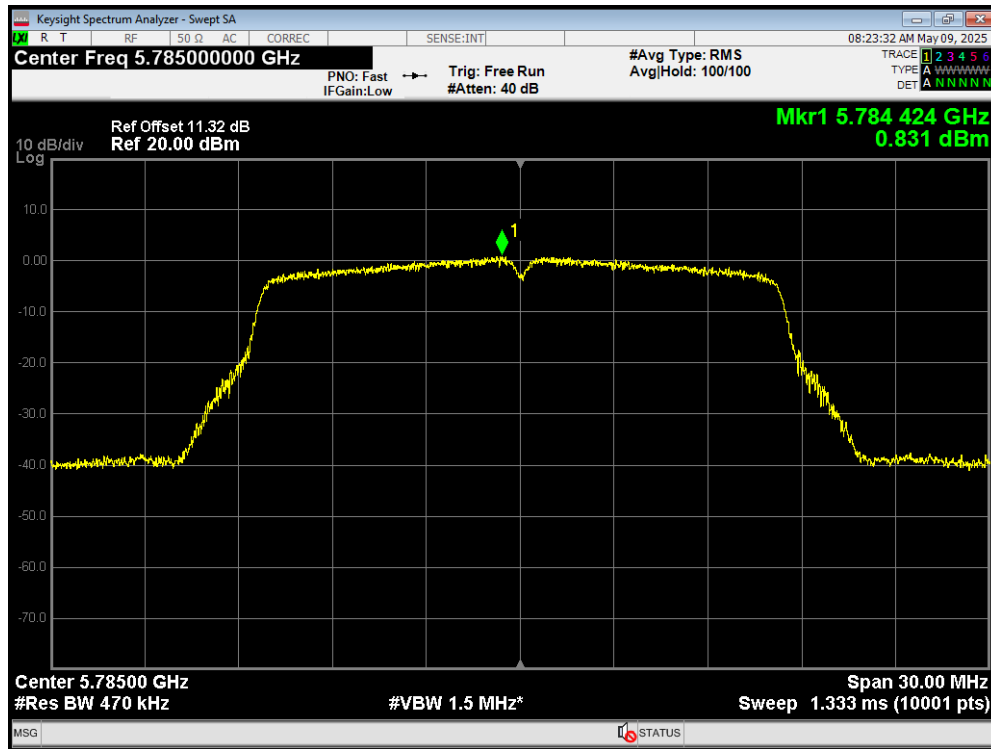
PSD 802.11a 5740MHz



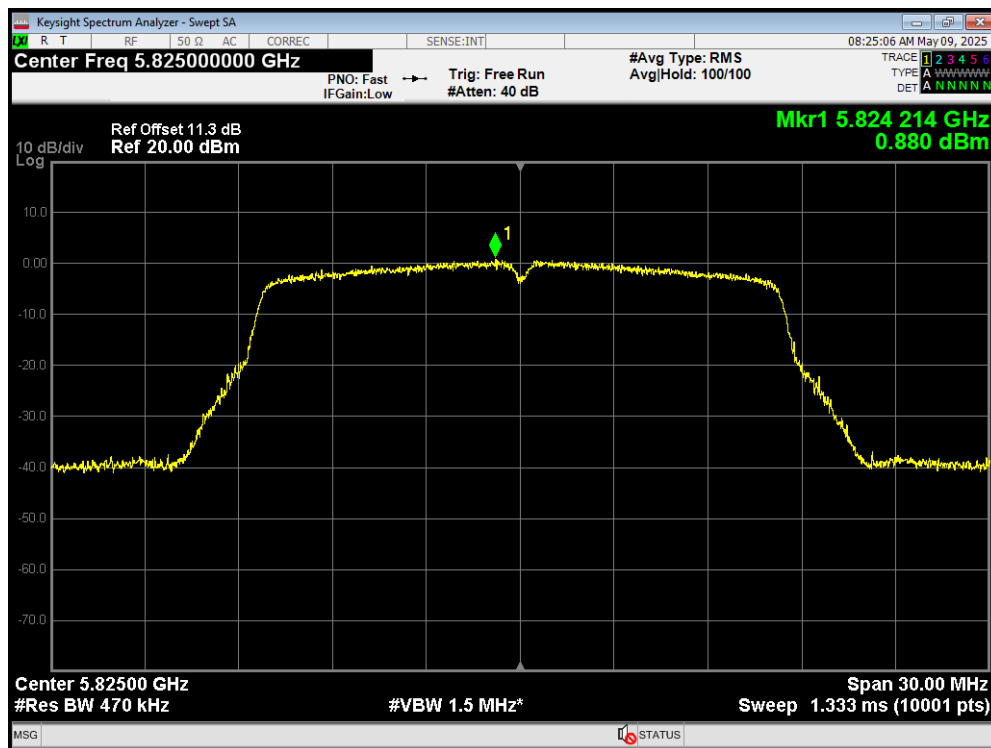
PSD 802.11a 5745MHz



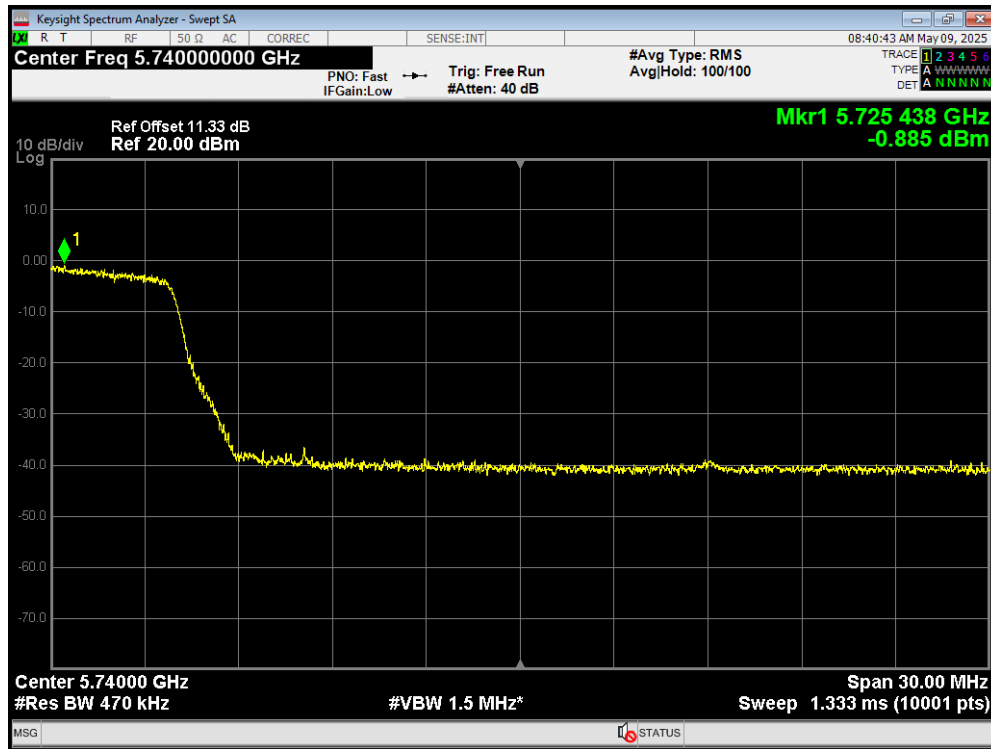
PSD 802.11a 5785MHz



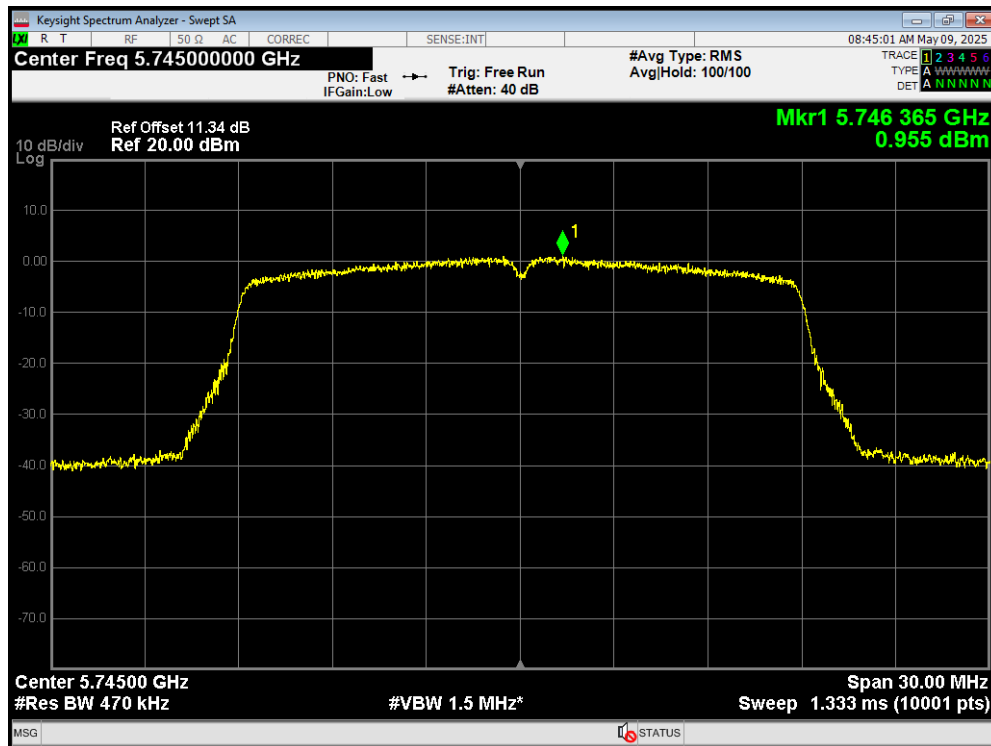
PSD 802.11a 5825MHz



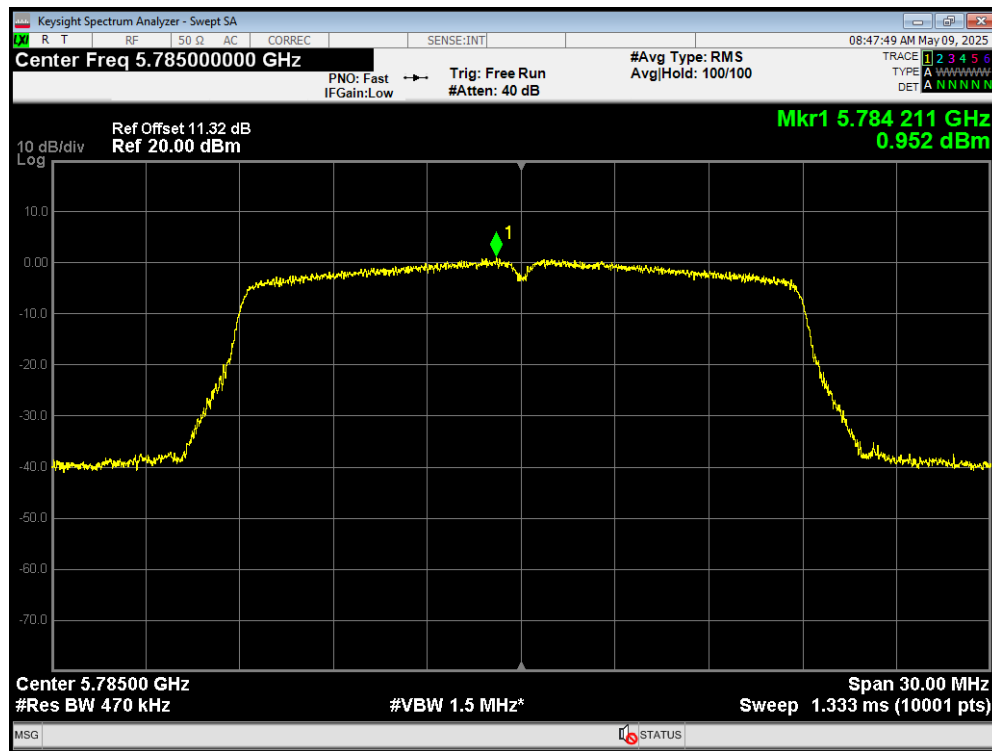
PSD 802.11ac(VHT20) 5740MHz



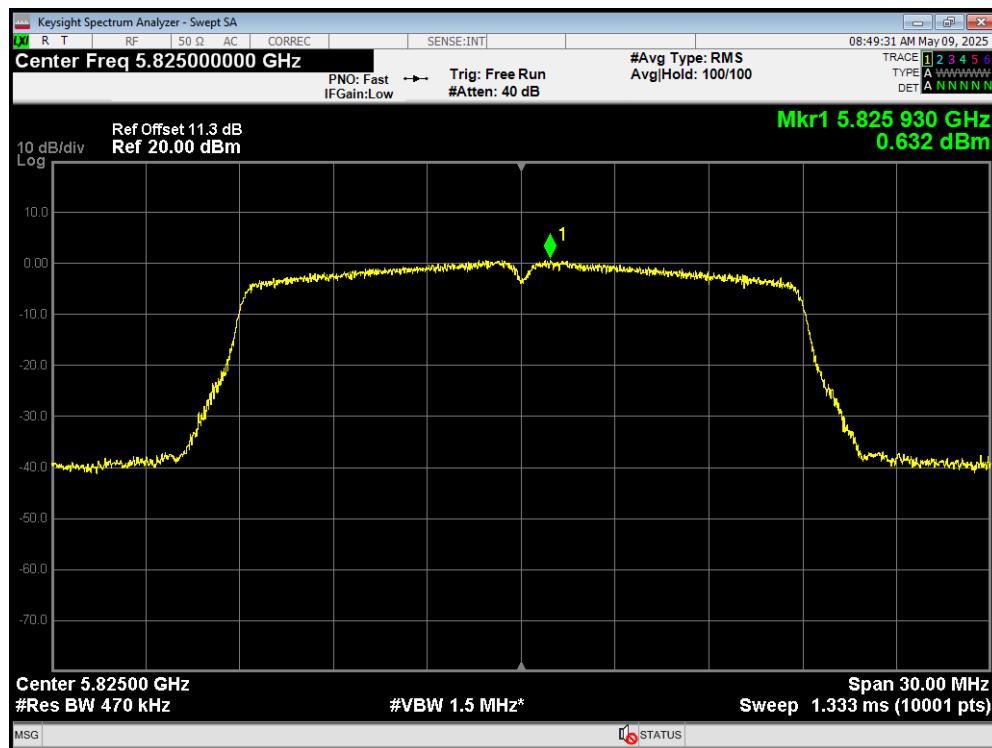
PSD 802.11ac(VHT20) 5745MHz



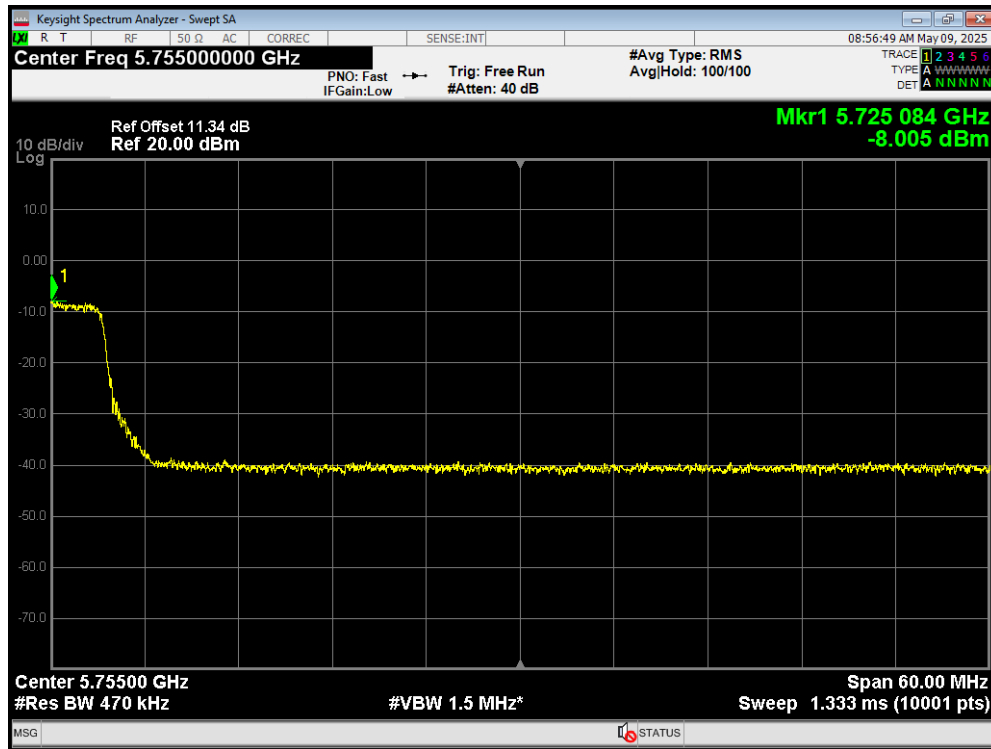
PSD 802.11ac(VHT20) 5785MHz



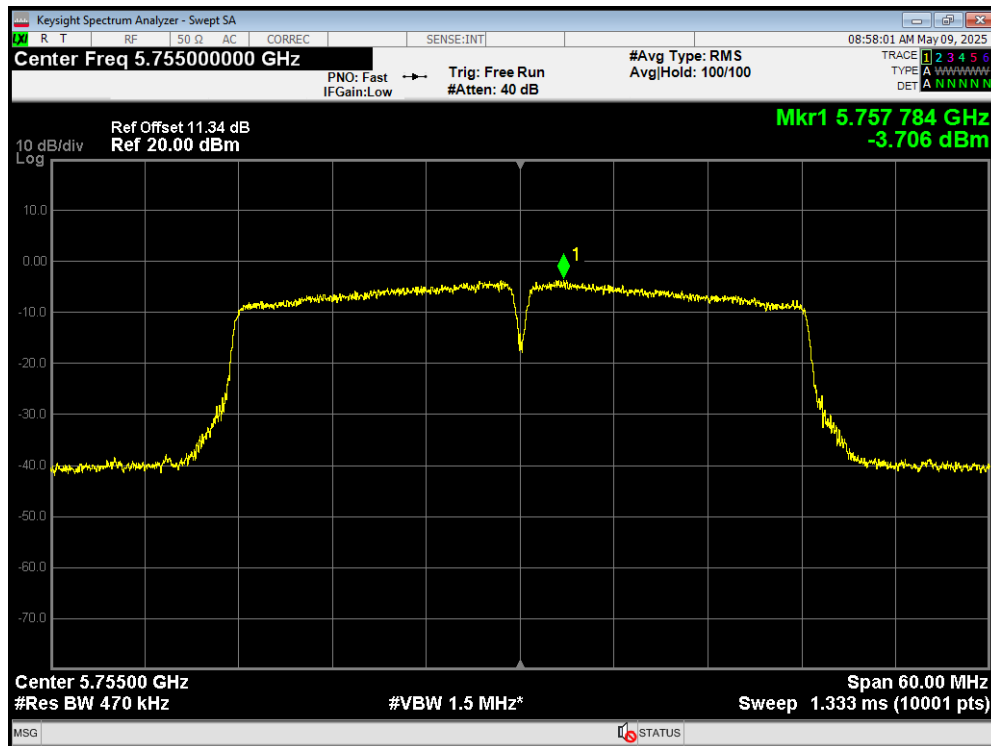
PSD 802.11ac(VHT20) 5825MHz



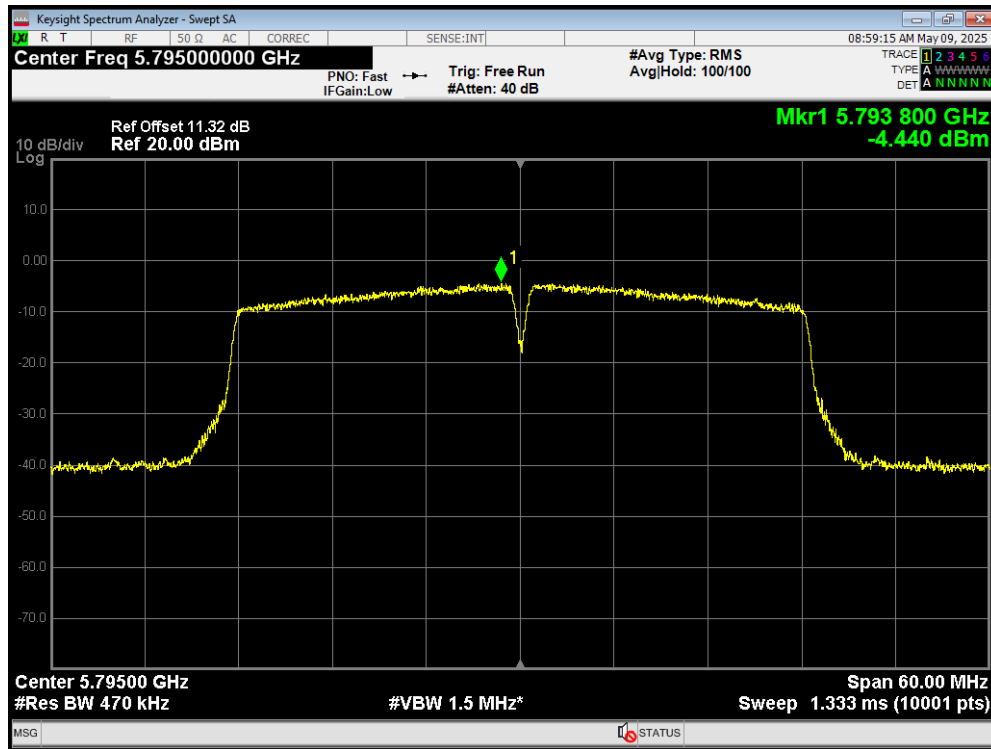
PSD 802.11ac(VHT40) 5755MHz



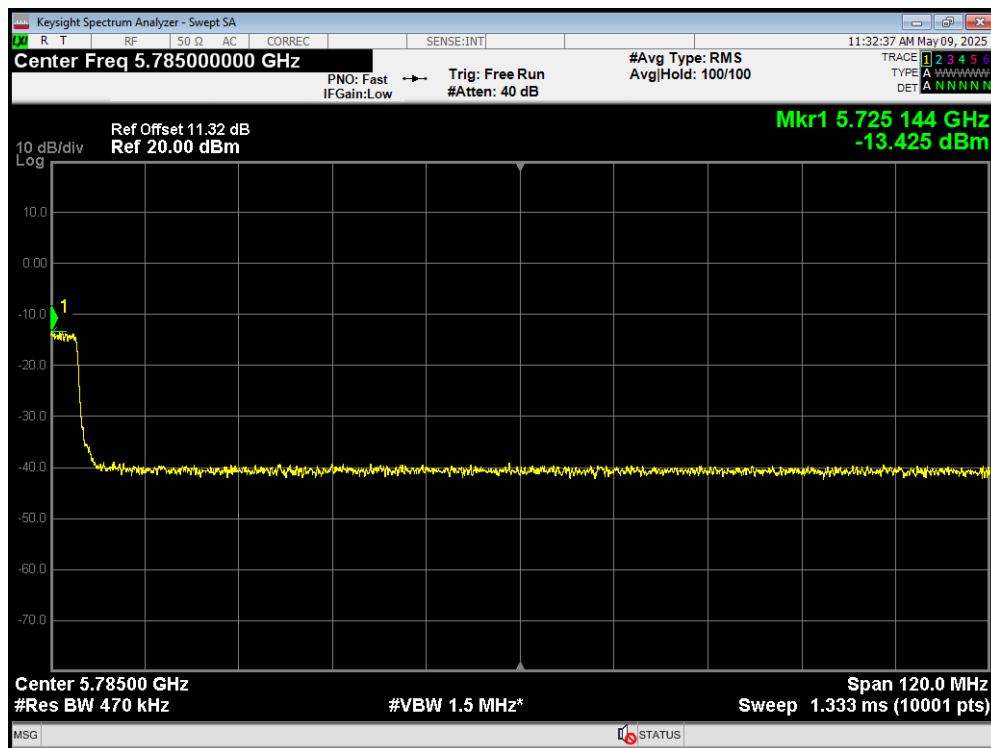
PSD 802.11ac(VHT40) 5755MHz



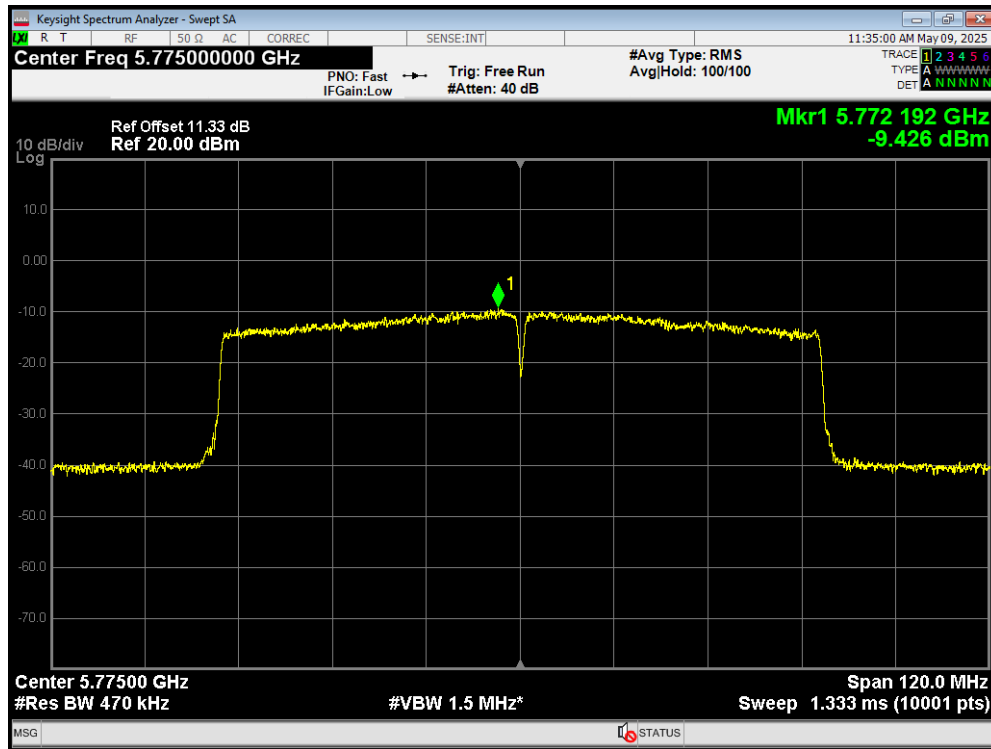
PSD 802.11ac(VHT40) 5795MHz



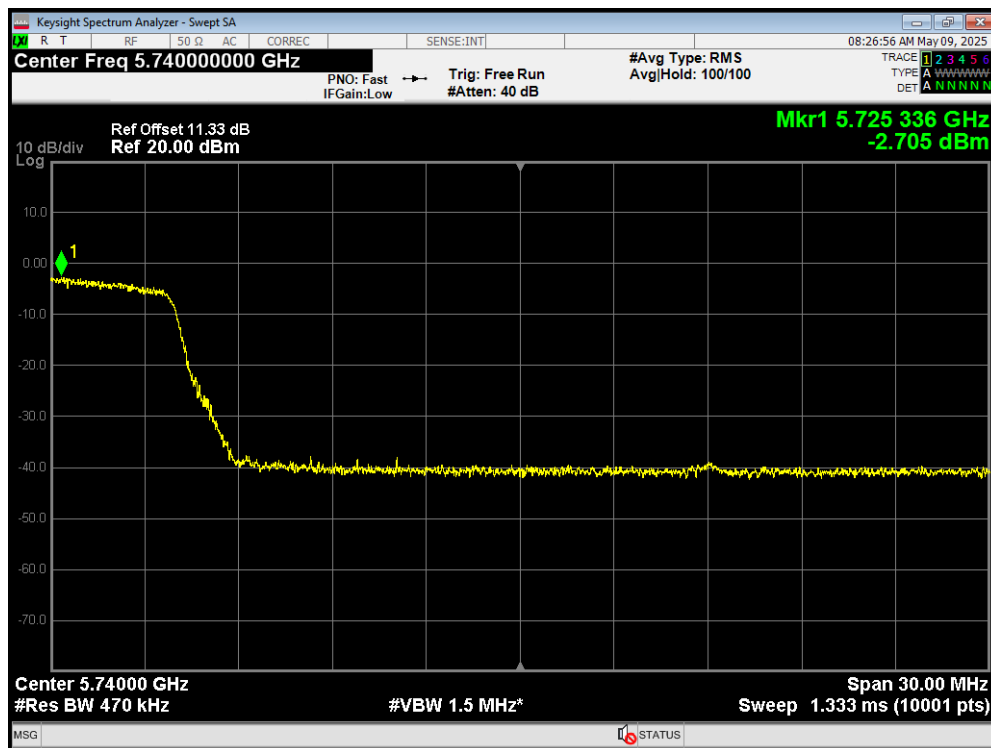
PSD 802.11ac(VHT80) 5785MHz



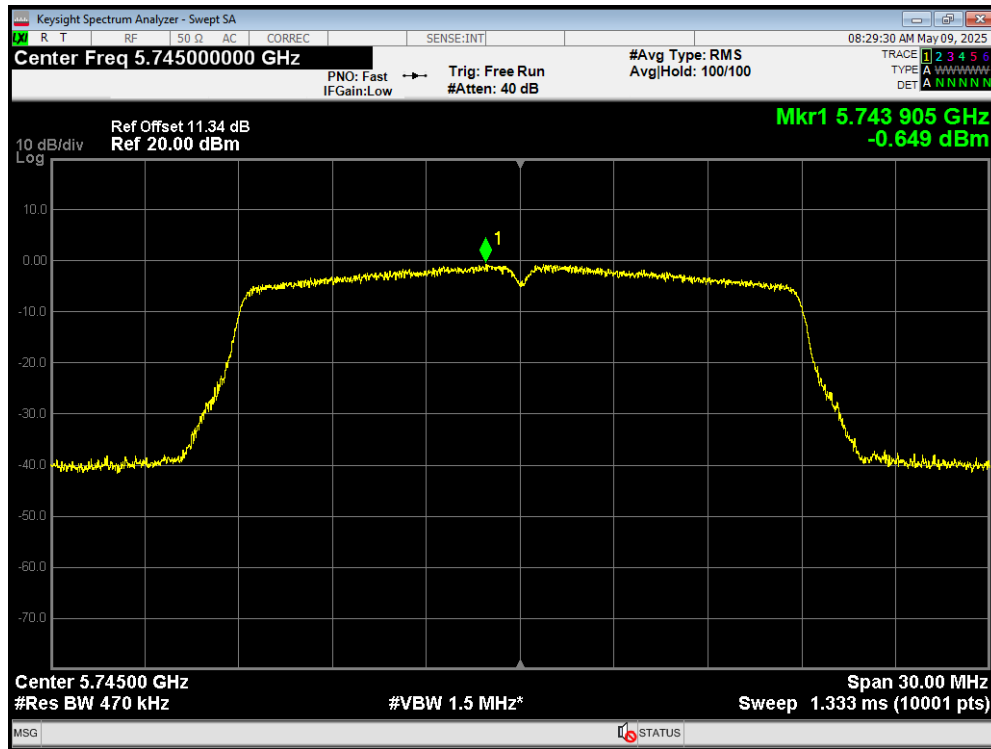
PSD 802.11ac(VHT80) 5775MHz



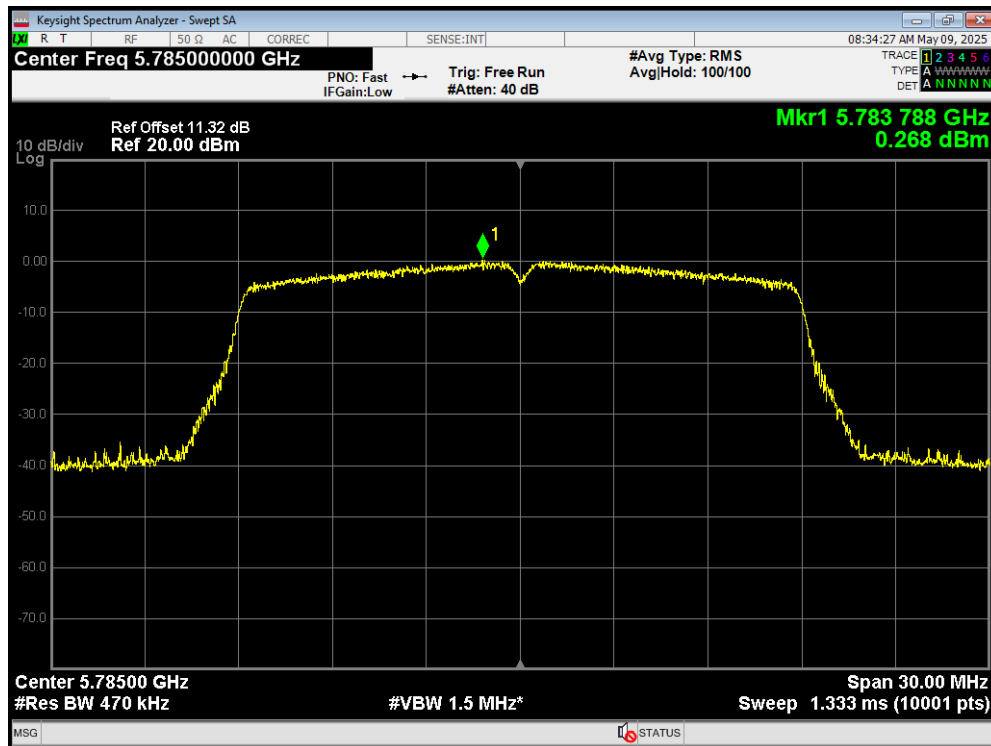
PSD 802.11n(HT20) 5740MHz



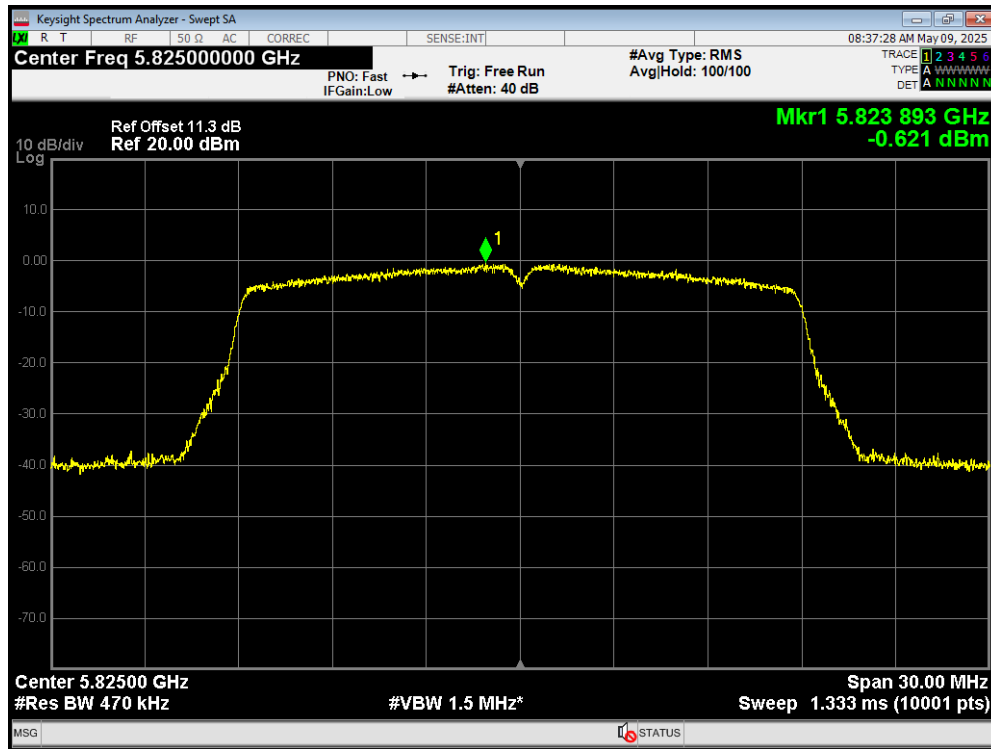
PSD 802.11n(HT20) 5745MHz



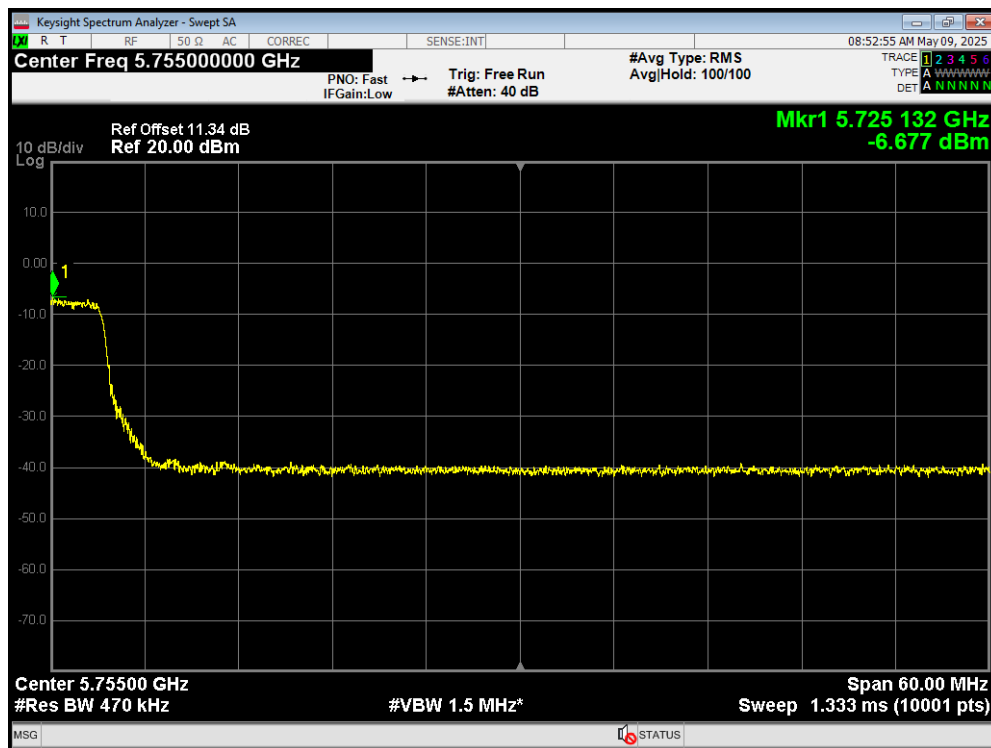
PSD 802.11n(HT20) 5785MHz



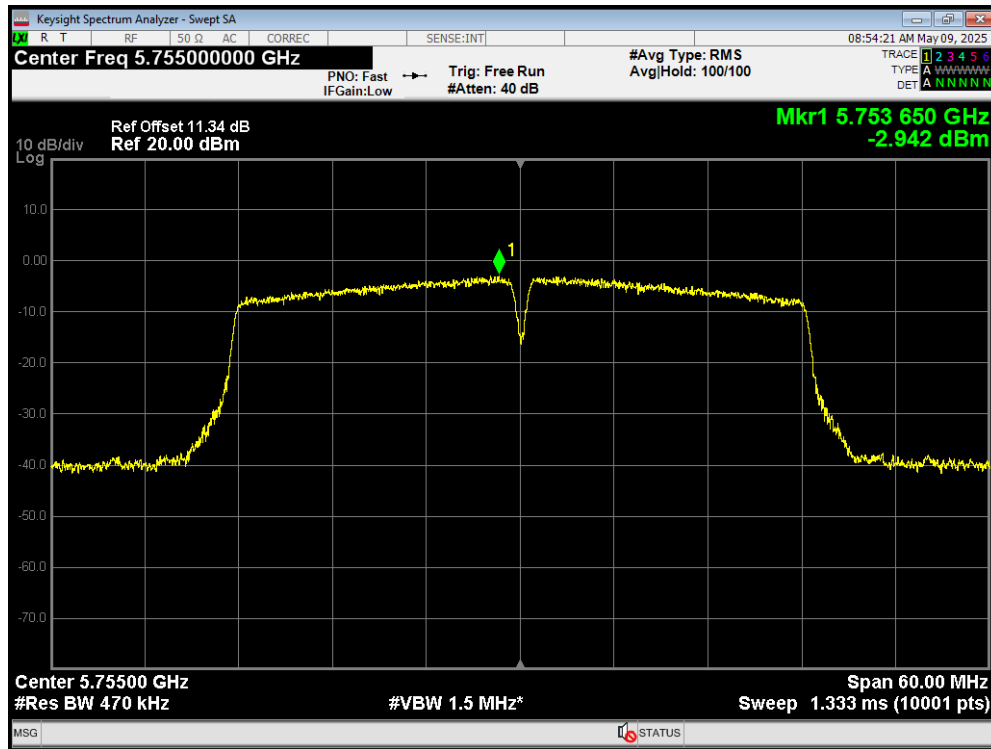
PSD 802.11n(HT20) 5825MHz



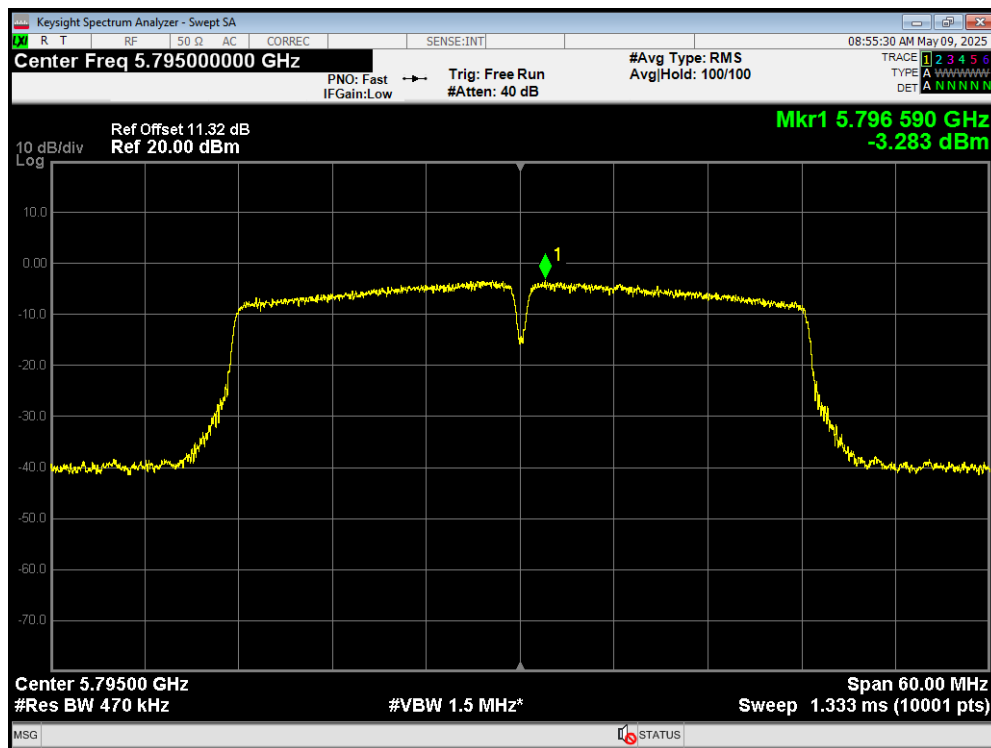
PSD 802.11n(HT40) 5755MHz



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.

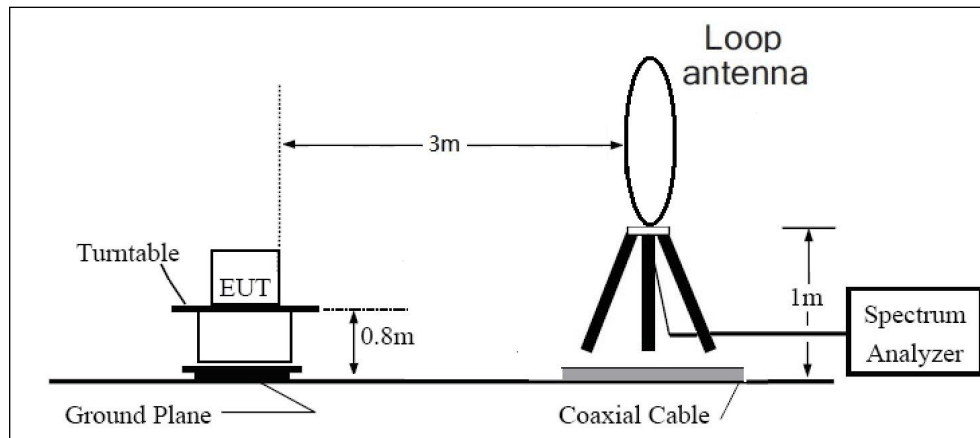
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed 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.

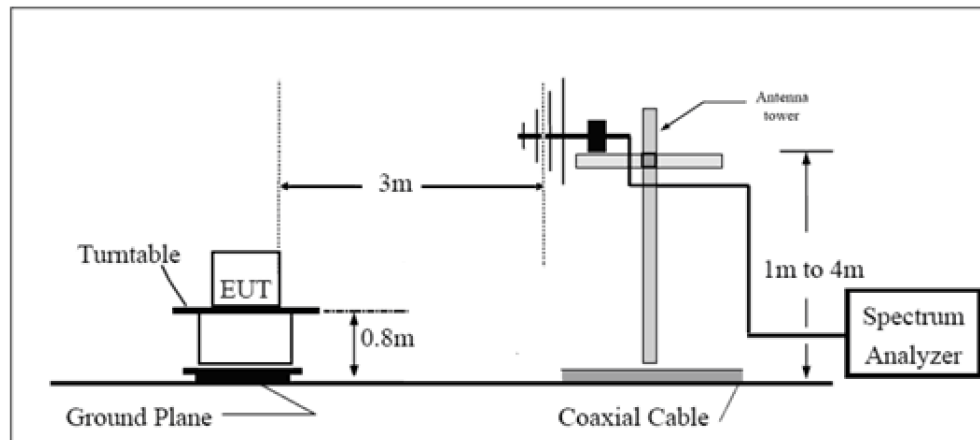
The test is in transmitting mode.

Test setup

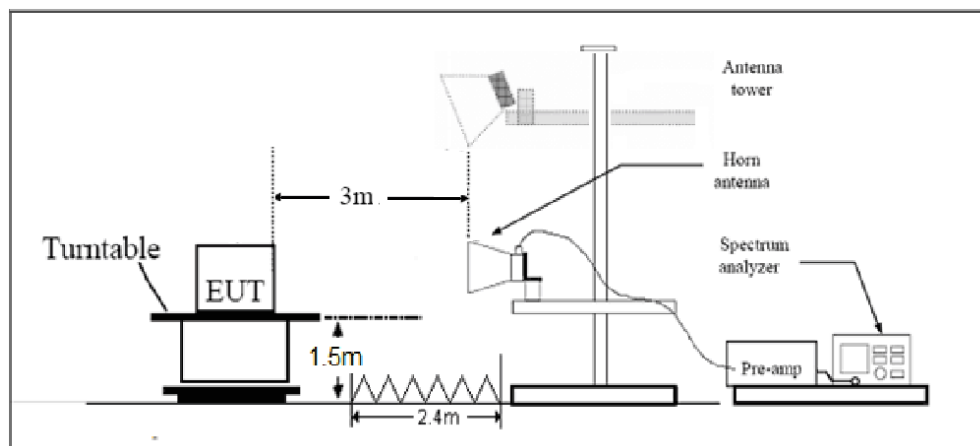
9kHz~ 30MHz



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
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

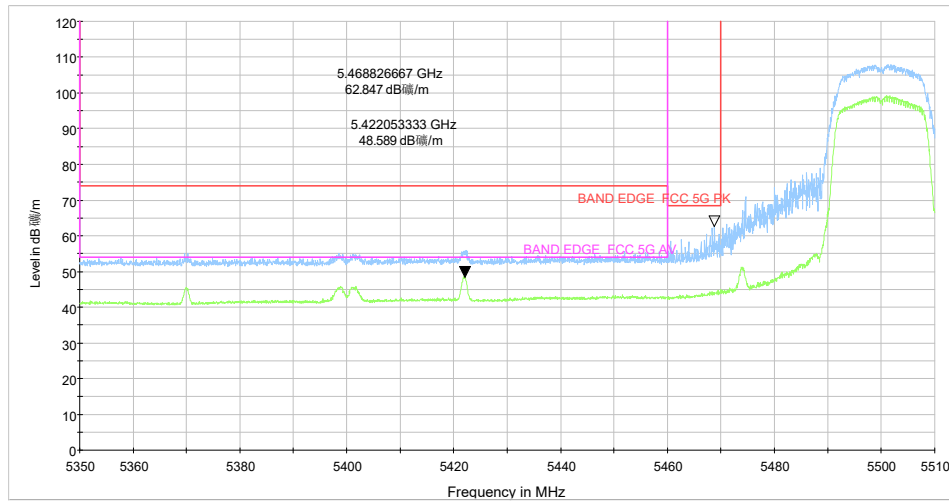
Test Results:

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.

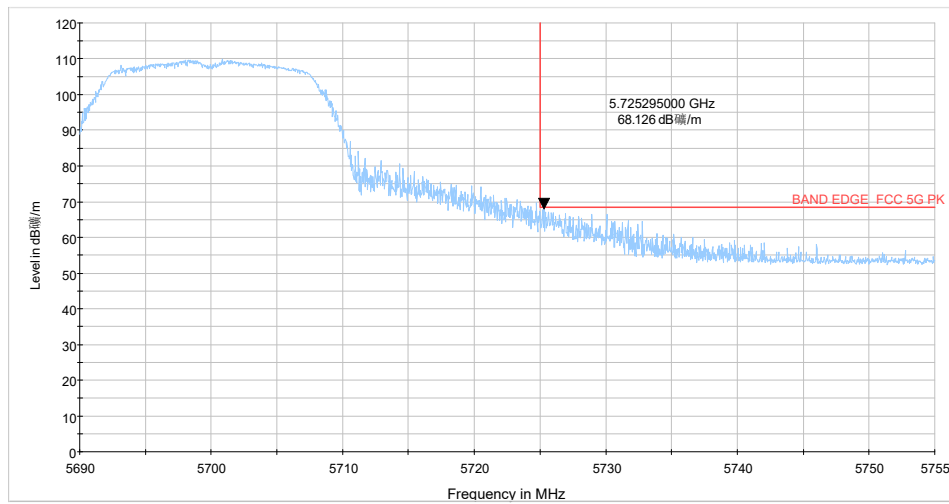
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

A symbol (dB μ V/m) in the test plot below means (dB μ V/m)

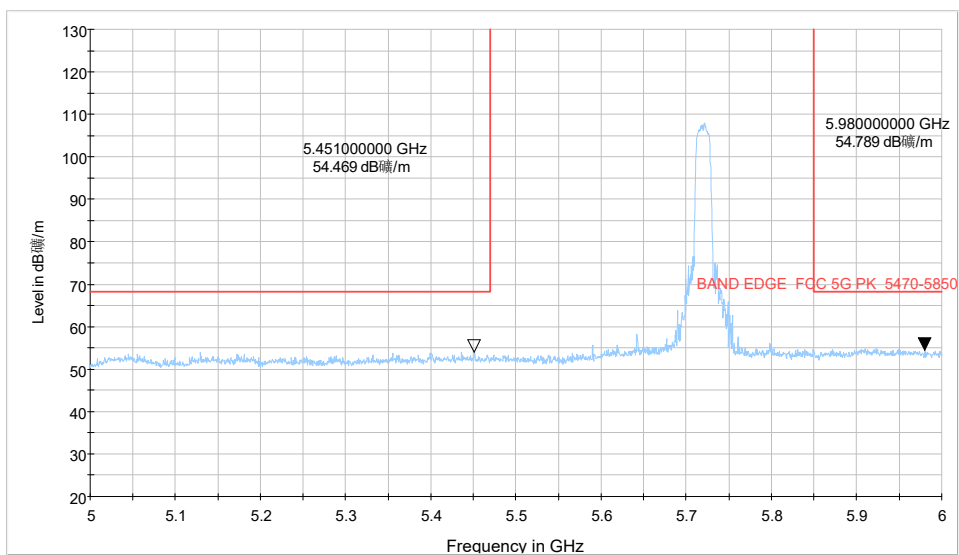
The signal beyond the limit is carrier.



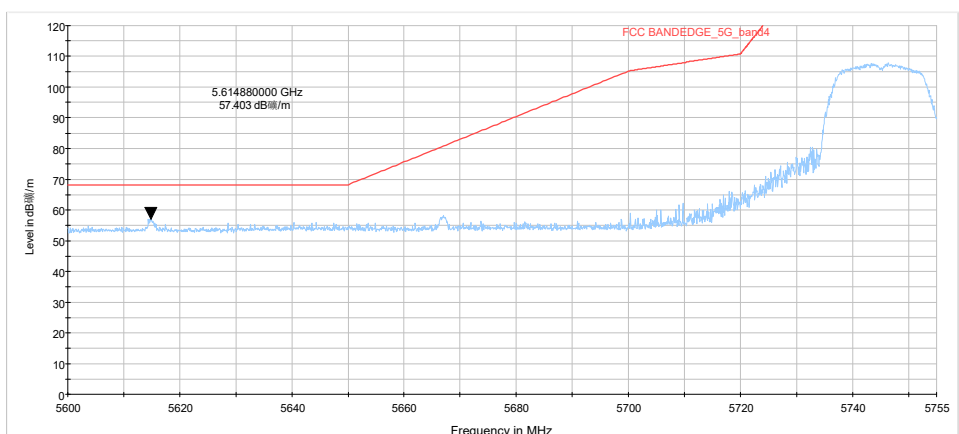
BANDEDGE_5G WIFI_a CH100_5.35-5.51GHz_X_6M



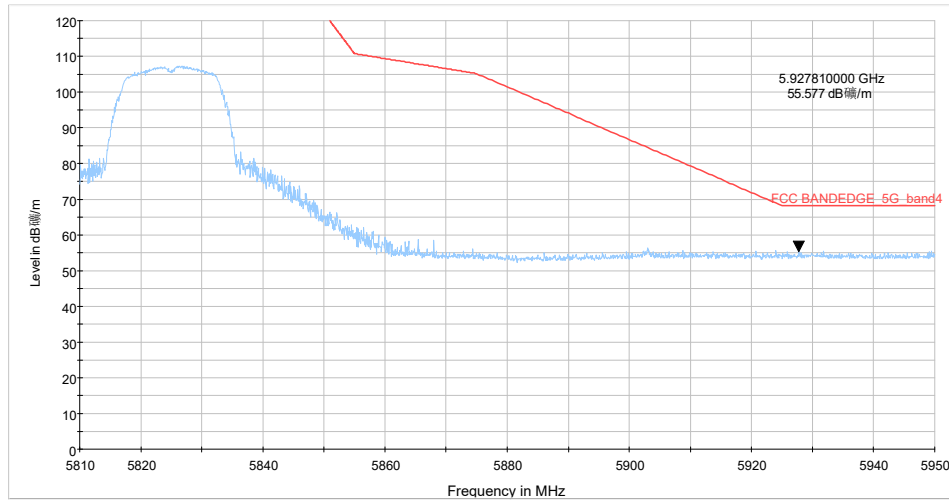
BANDEDGE_5G WIFI_a CH140_5.69-5.755GHz_X_6M



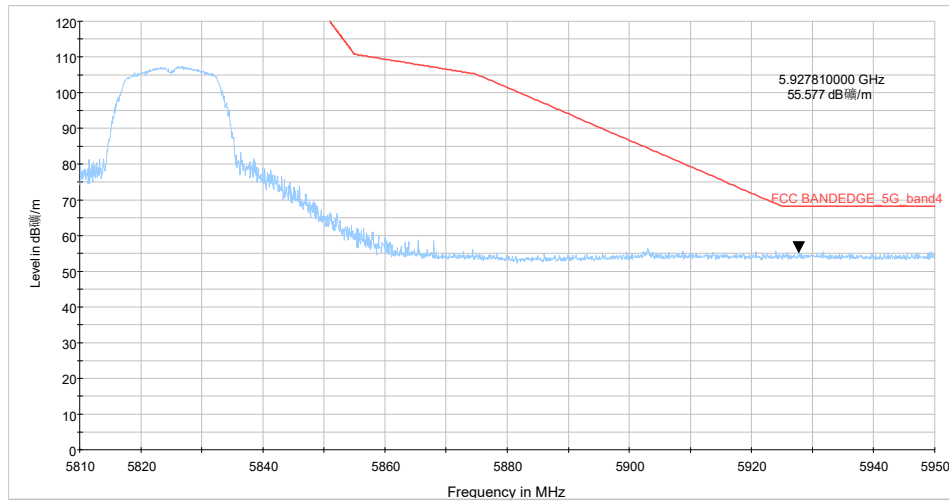
BANDEDGE_5G WIFI_a CH144_5-6GHz_X_6M



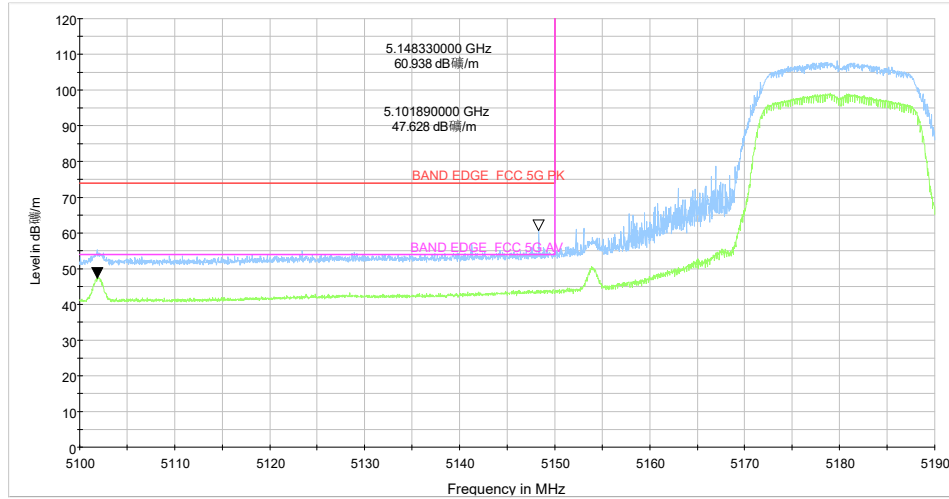
BANDEDGE_5G WIFI_a CH149_5.6-5.755GHz_X_6M



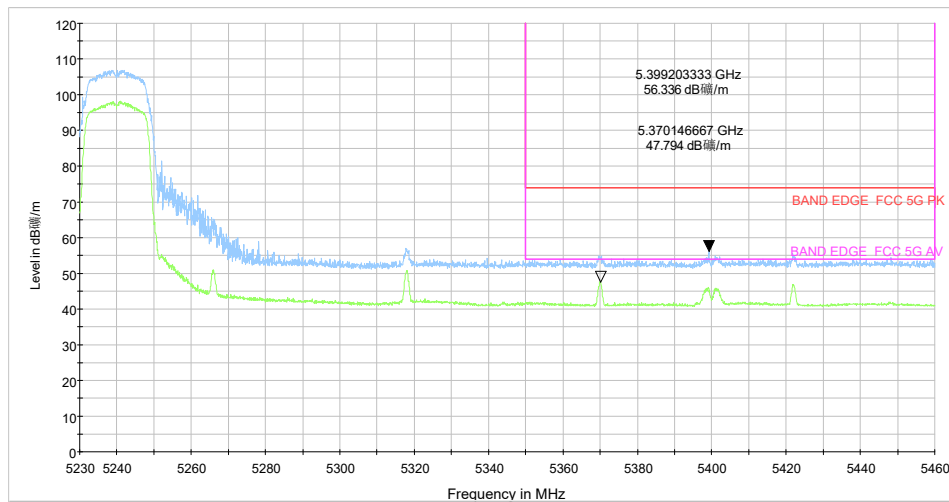
BANDEGE_5G WIFI_a CH154_5.81-5.95GHz_X_6M



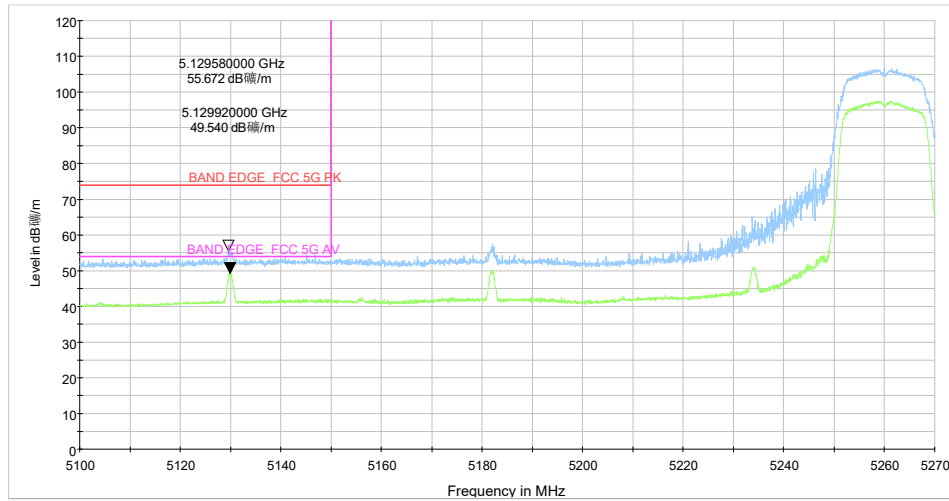
BANDEGE_5G WIFI_a CH165_5.81-5.95GHz_X_6M



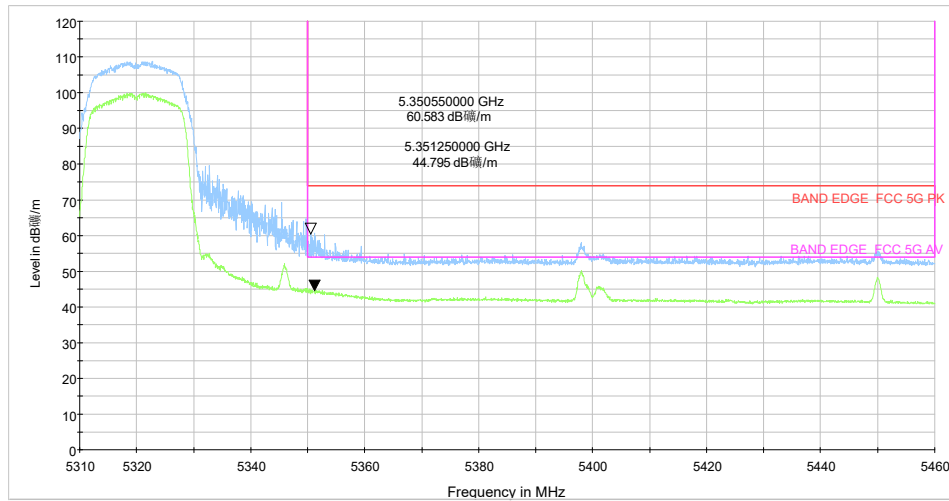
BANDEGE_5G WIFI_a CH36_5.1-5.19GHz_X_6M



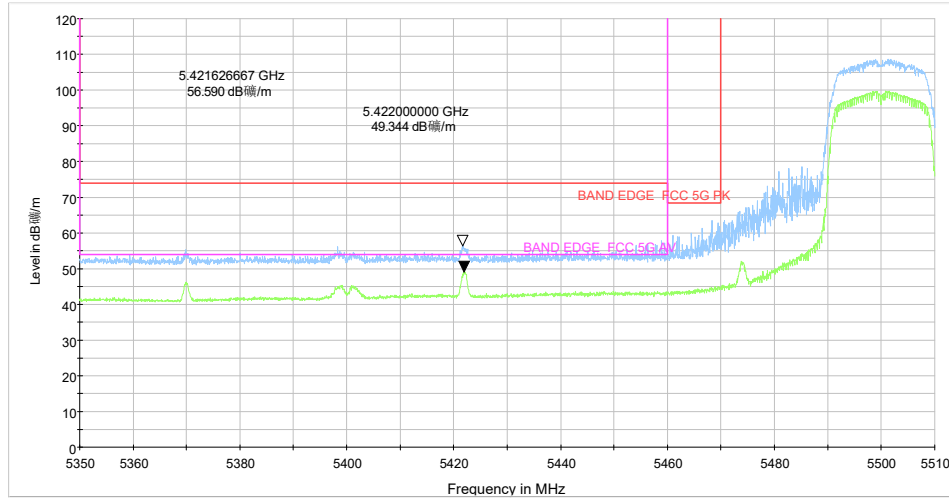
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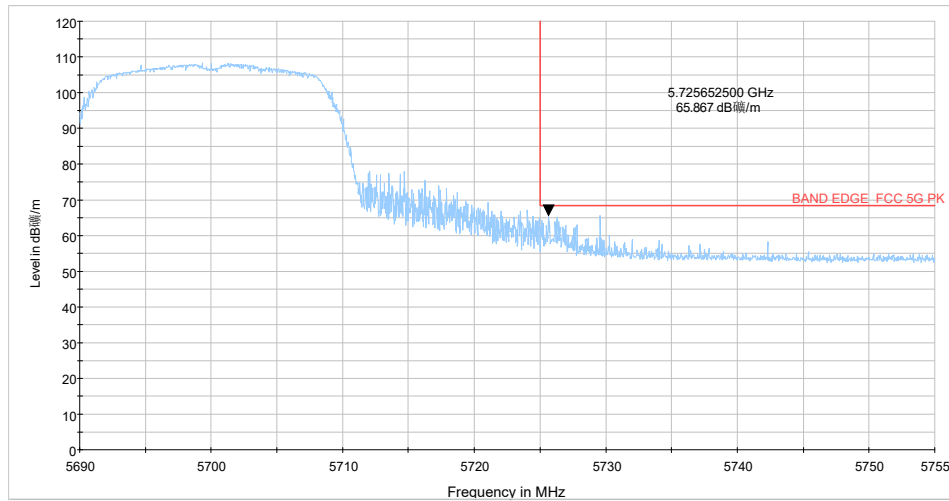
BANDEGE_5G WIFI_a CH52_5.1-5.27GHz_X_6M



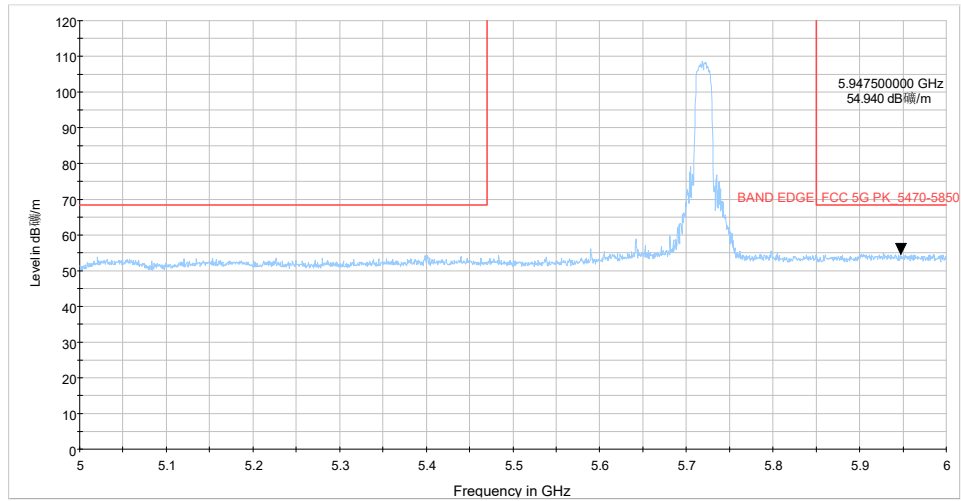
BANDEGE_5G WIFI_a CH64_5.31-5.46GHz_X_6M



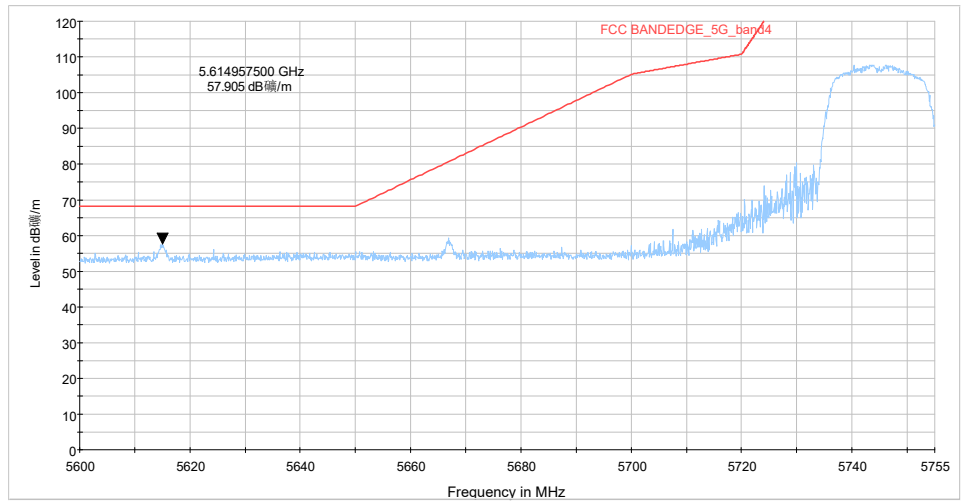
BANDEDGE_5G WIFI_ac20 CH100_5.35-5.51GHz_X_MCS0



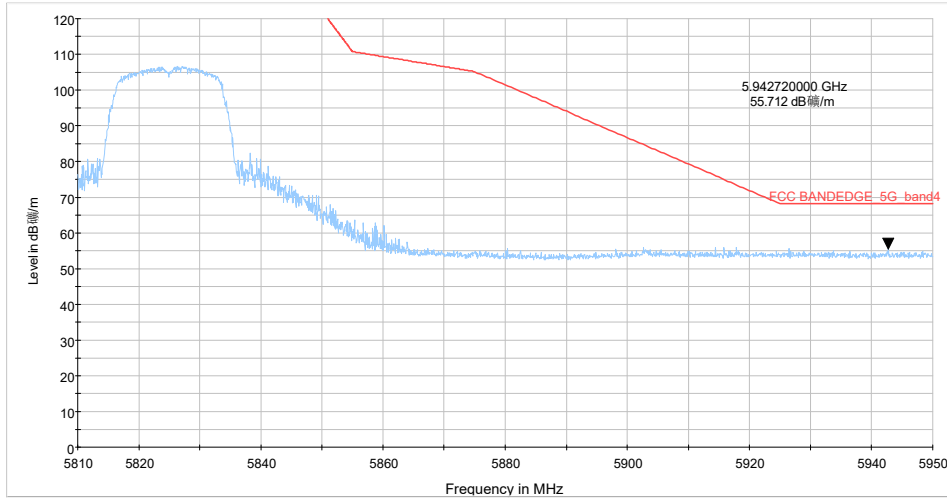
BANDEDGE_5G WIFI_ac20 CH140_5.69-5.755GHz_X_MCS0



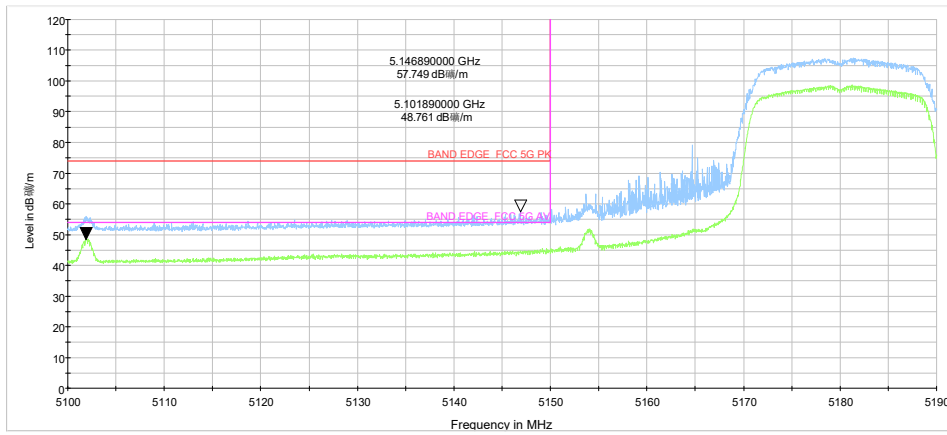
BANDEDGE_5G WIFI_ac20 CH144_5-6GHz_X_MCS0



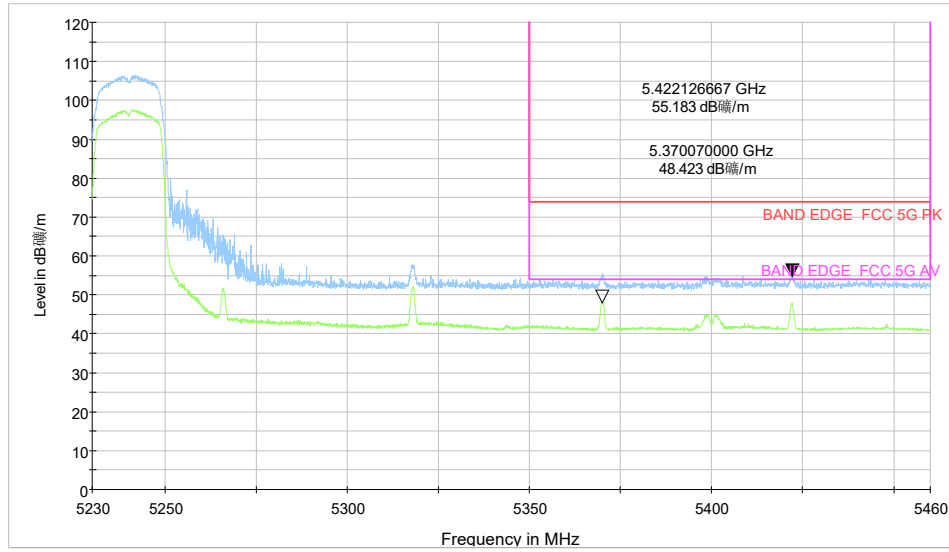
BANDEDGE_5G WIFI_ac20 CH149_5.6-5.755GHz_X_MCS0



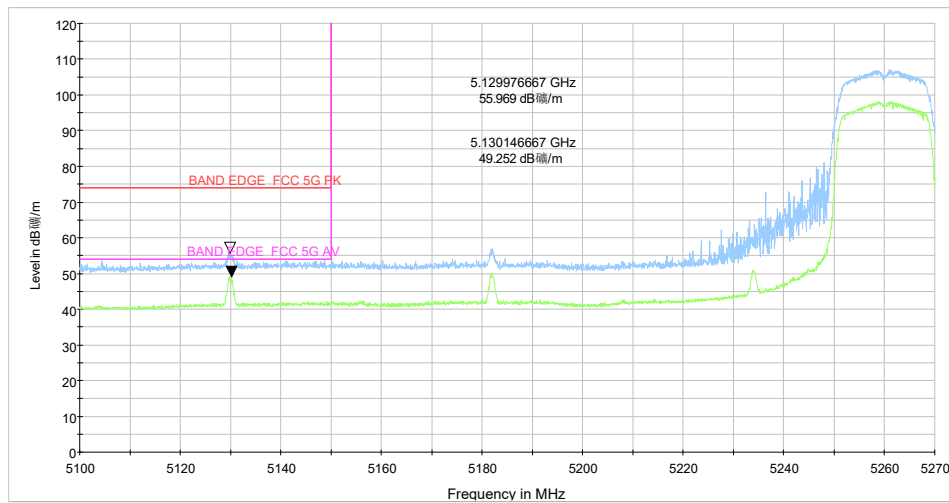
BANDEDGE_5G WIFI_ac20 CH165_5.81-5.95GHz_X_MCS0



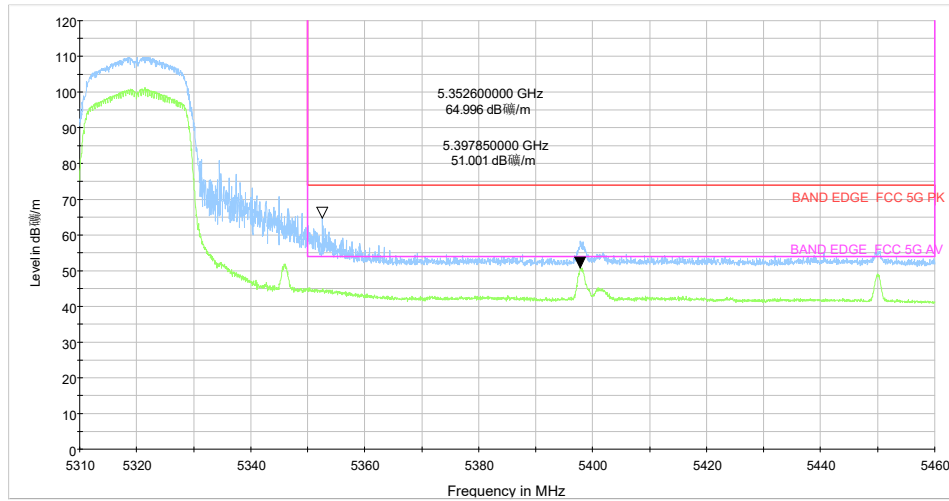
BANDEDGE_5G WIFI_ac20 CH36_5.1-5.19GHz_X_MCS0



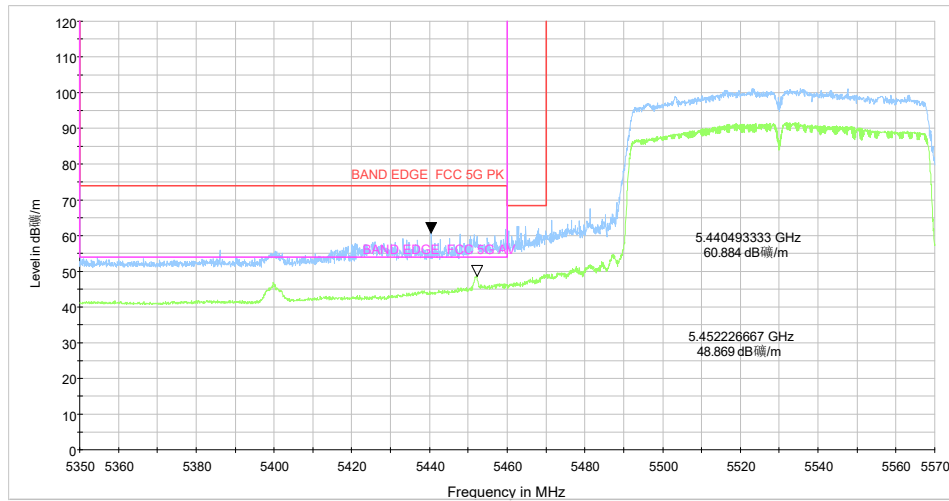
BANDEGE_5G WIFI_ac20 CH48_5.23-5.46GHz_X_MCS0



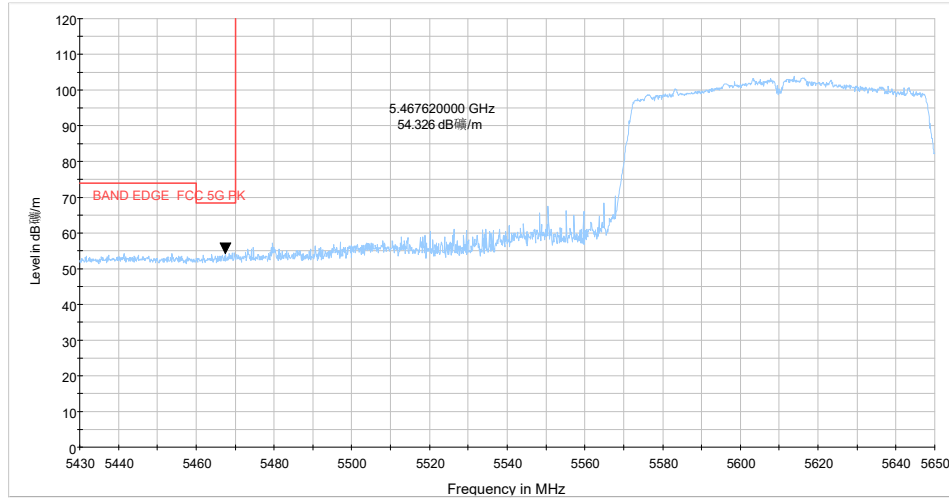
BANDEGE_5G WIFI_ac20 CH52_5.1-5.27GHz_X_MCS0



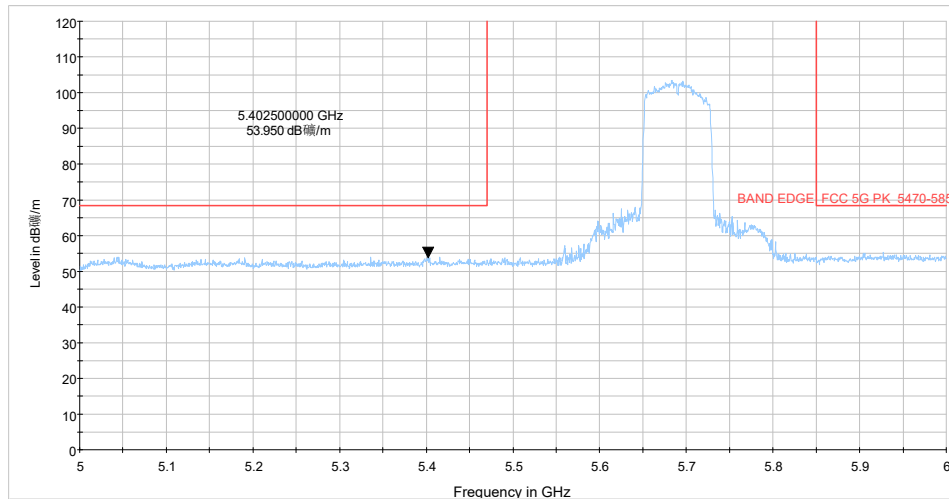
BANDEGE_5G WIFI_ac20 CH64_5.31-5.46GHz_X_MCS0



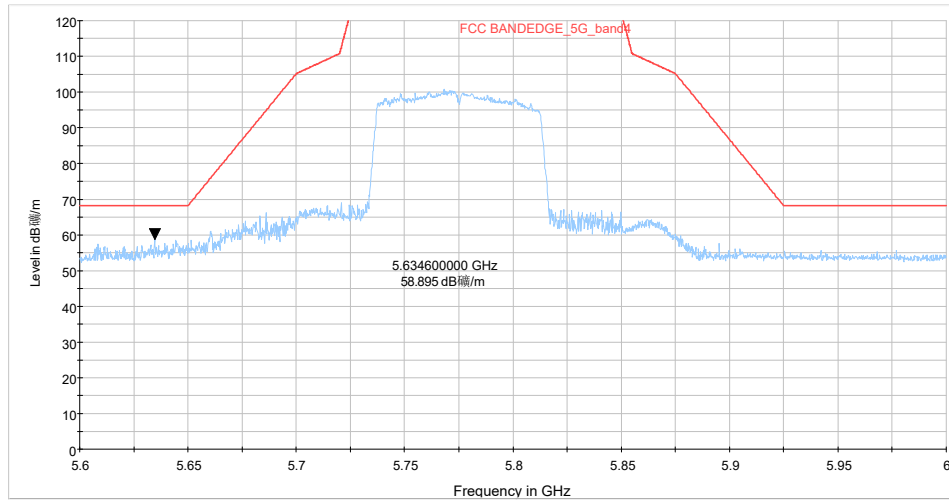
BANDEGE_5G WIFI_ac80 CH106_5.35-5.57GHz_X_MCSO



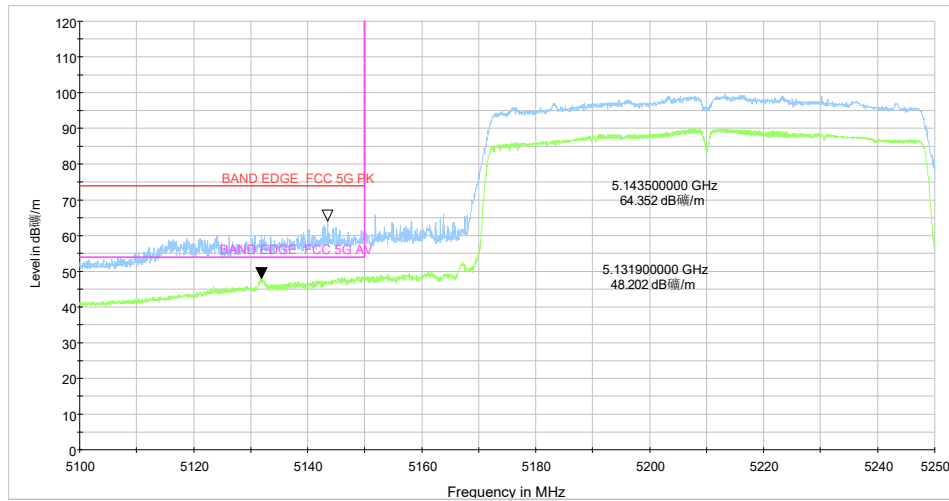
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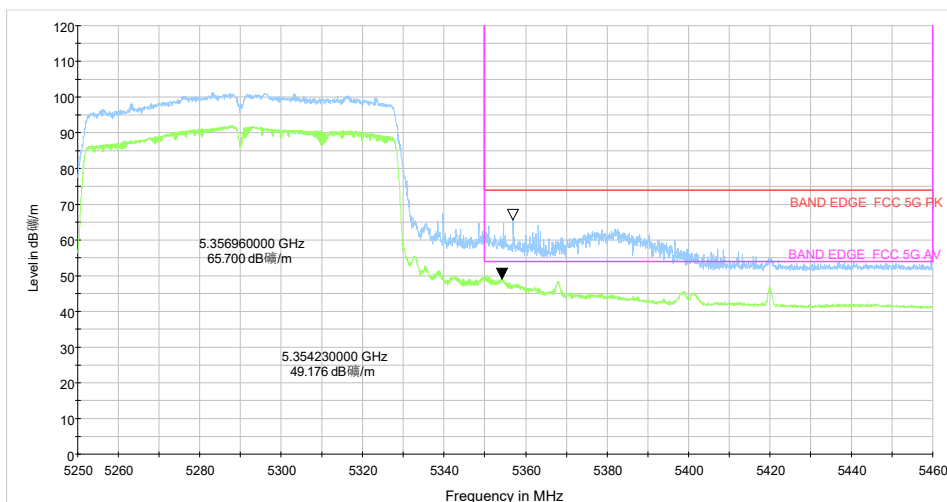
BANDEDGE_5G WIFI_ac80 CH138_5-6GHz_X_MCSO



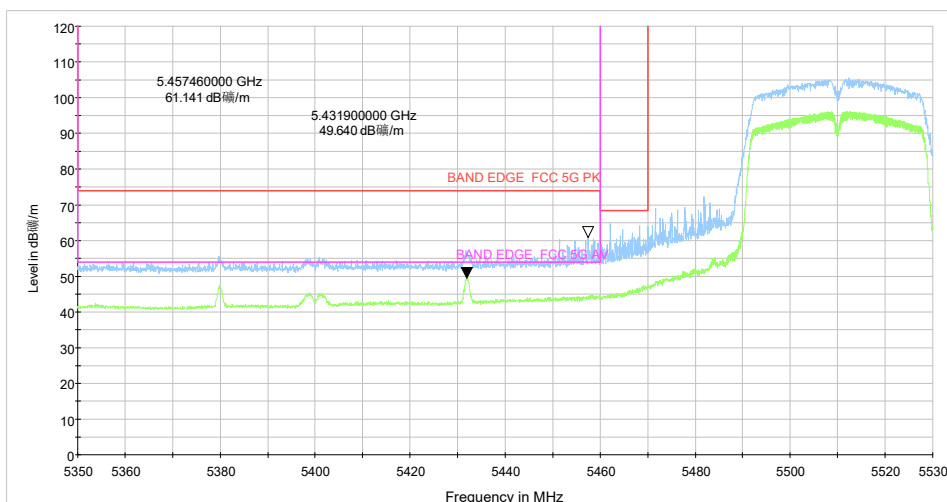
BANDEGE_5G WIFI_ac80 CH155_5.6-6GHz_X_MCSO



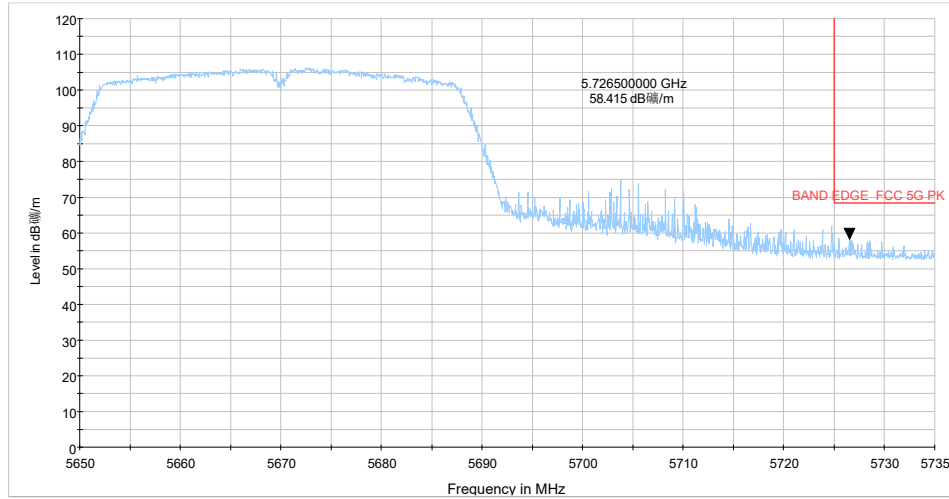
BANDEGE_5G WIFI_ac80 CH42_5.1-5.25GHz_X_MCSO



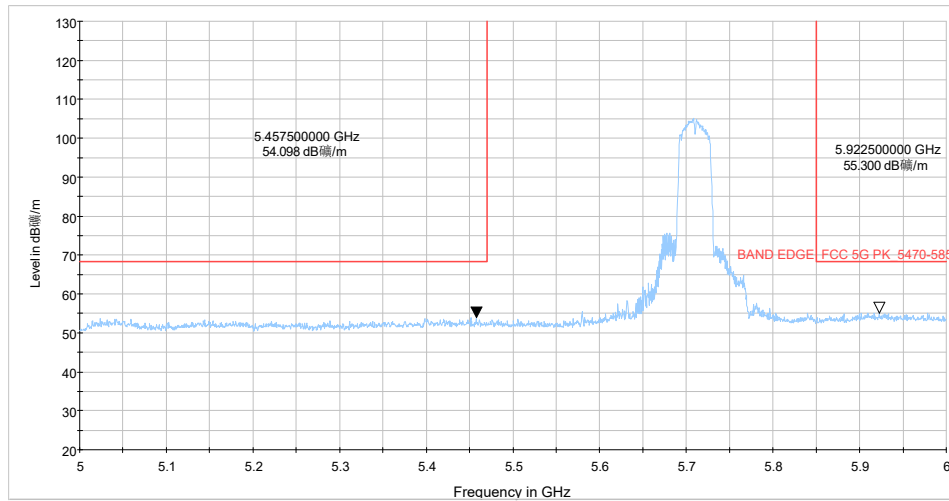
BANDEDGE_5G WIFI_ac80 CH58_5.25-5.46GHz_X_MCSO



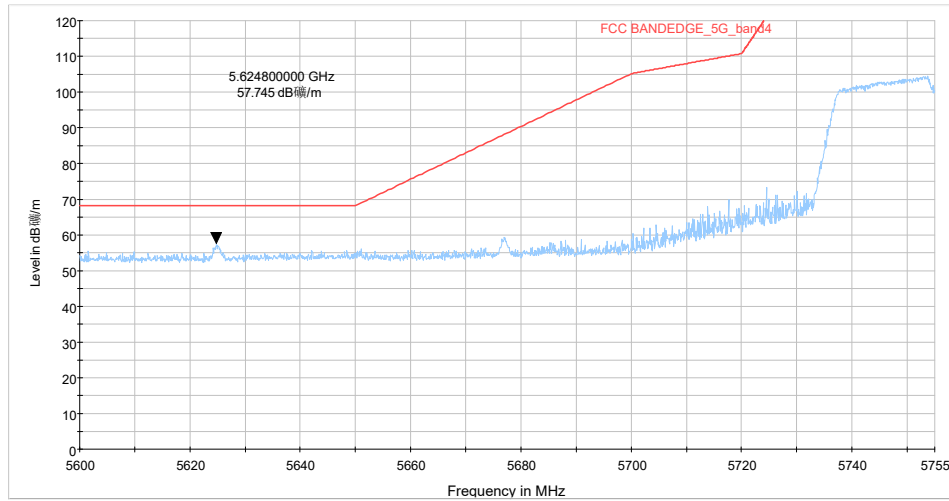
BANDEDGE_5G WIFI_n40 CH102_5.35-5.53GHz_X_MCSO



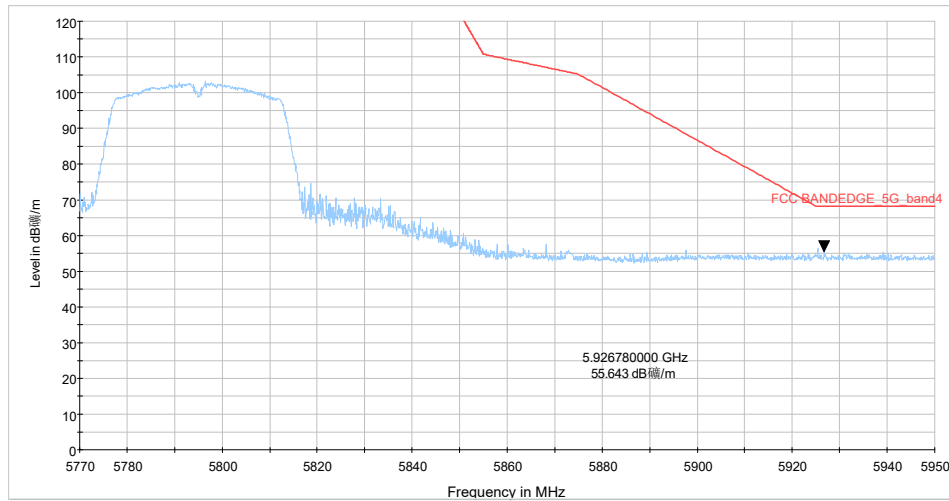
BANDEDGE_5G WIFI_n40 CH134_5.65-5.735GHz_X_MCS0



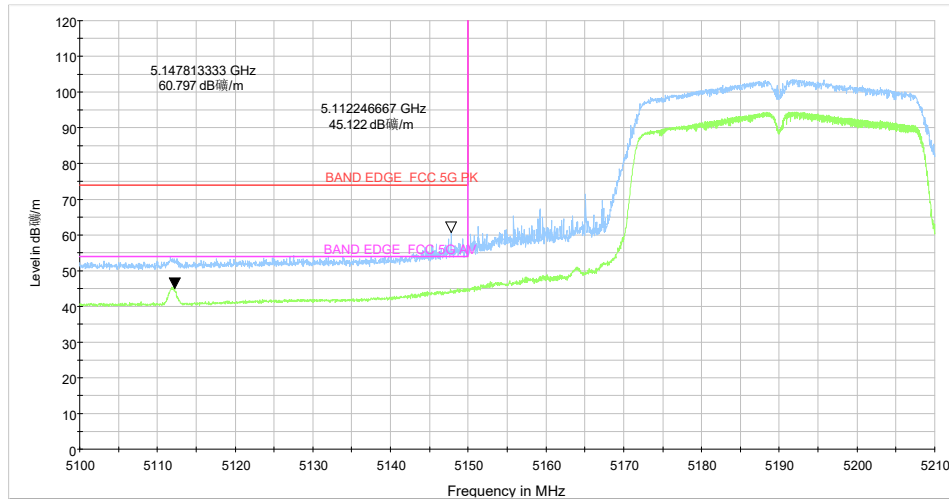
BANDEDGE_5G WIFI_n40 CH142_5-6GHz_X_MCS0



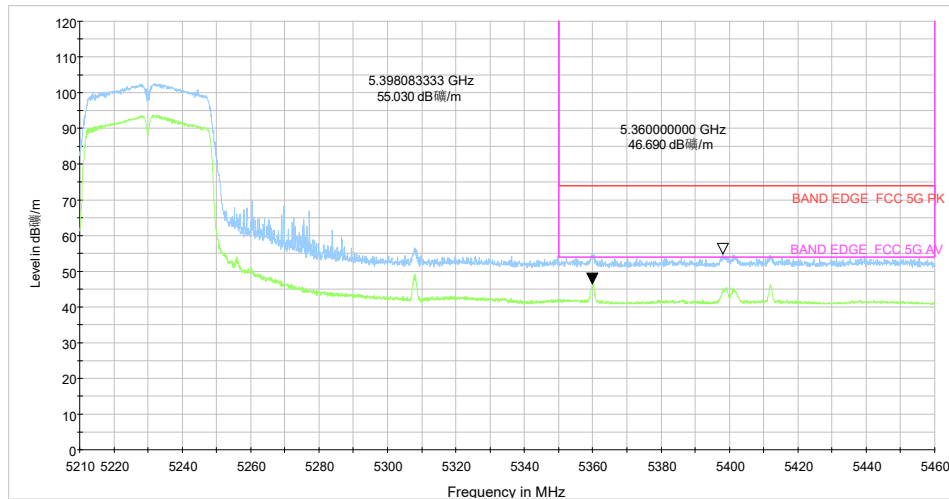
BANDEGE_5G WIFI_n40 CH151_5.6-5.755GHz_X_MCS0



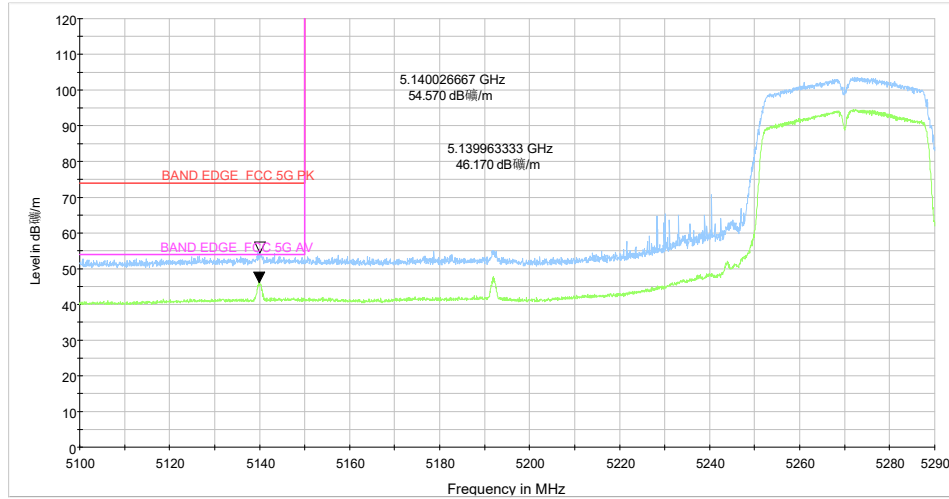
BANDEGE_5G WIFI_n40 CH159_5.77-5.95GHz_X_MCS0



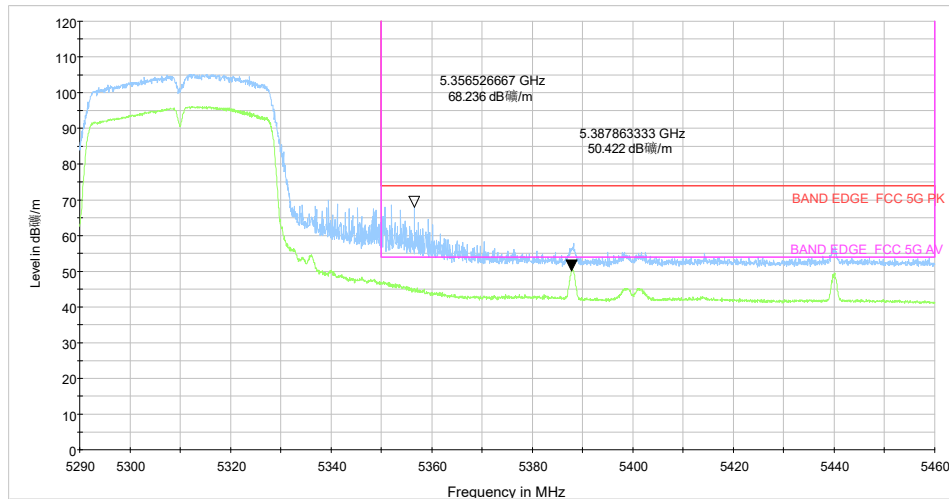
BANDEGE_5G WIFI_n40 CH38_5.1-5.21GHz_X_MCS0



BANDEGE_5G WIFI_n40 CH46_5.21-5.46GHz_X_MCS0



BANDEDGE_5G WIFI_n40 CH54_5.1-5.29GHz_X_MCS0



BANDEDGE_5G WIFI_n40 CH62_5.29-5.46GHz_X_MCS0

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz are more than 20dB below the limit are not reported.

The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:

Remark:

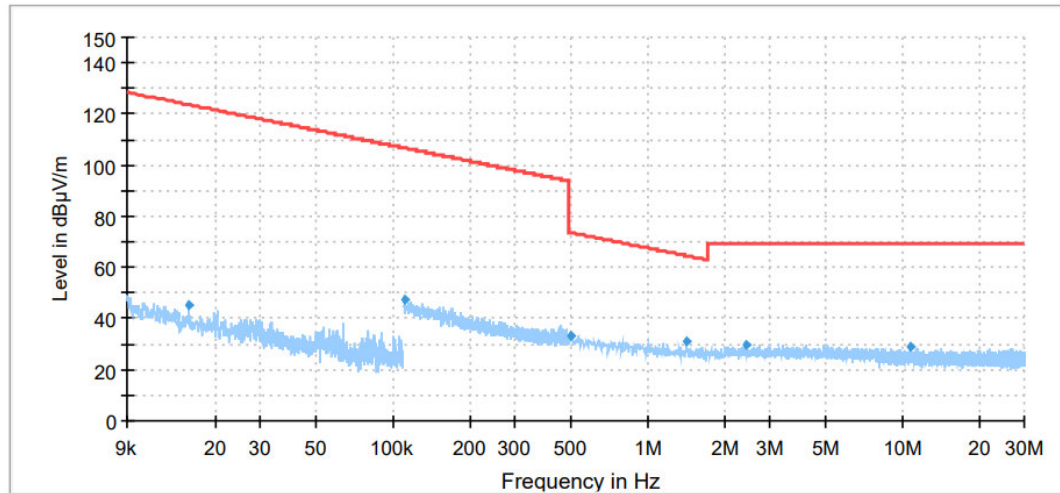
1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. For below 1GHz

 QP Level @Spectrum Overview H
  QP Level @Spectrum Overview V
  QP Level @Final Results
  QP Limit

For above 1GHz

 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.02	45.62	123.66	78.03	500.00	0.200	V	256.00	18
0.11	47.35	106.66	59.31	150.00	9.000	V	6.00	17
0.50	33.05	73.67	40.62	150.00	9.000	V	0.00	17
1.41	31.39	64.62	33.23	150.00	9.000	V	1.00	17
2.45	29.88	69.50	39.62	150.00	9.000	V	27.00	17
10.63	29.20	69.50	40.30	150.00	9.000	V	10.00	17

Radiates Emission from 9kHz to 30MHz