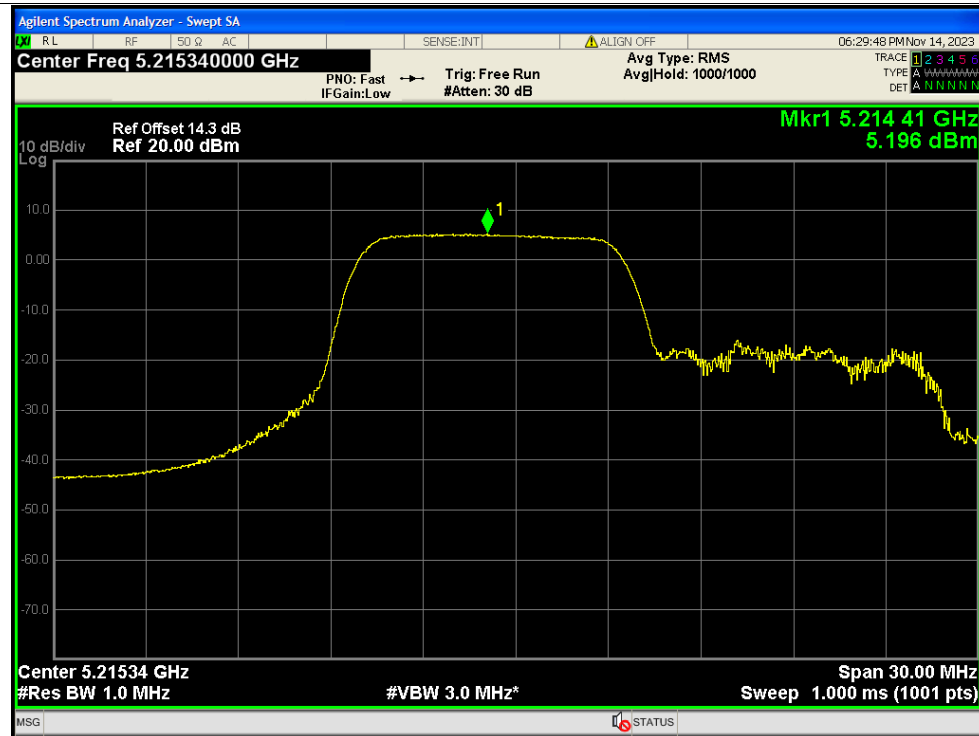
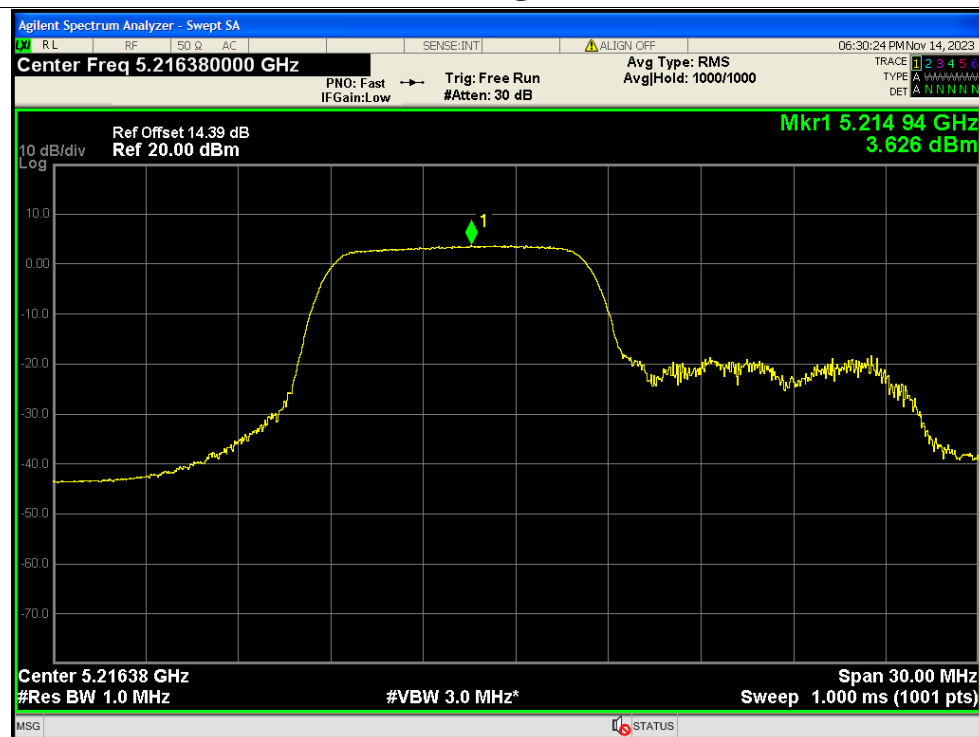




PSD NVNT ax20 106@53 5220MHz Ant1

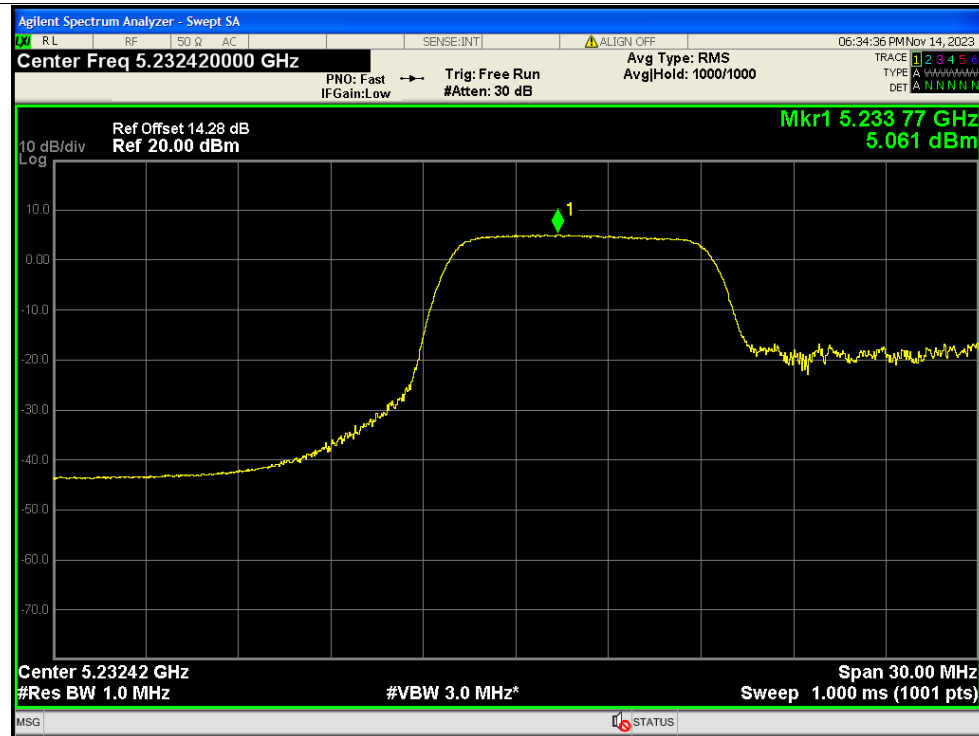


PSD NVNT ax20 106@53 5220MHz Ant2

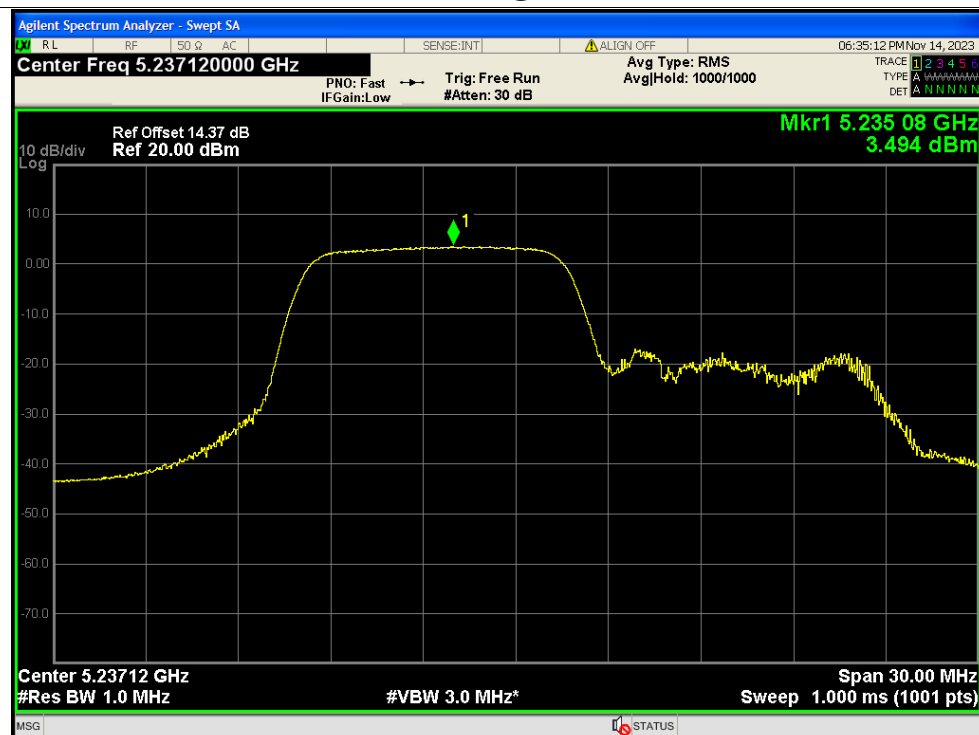




PSD NVNT ax20 106@53 5240MHz Ant1

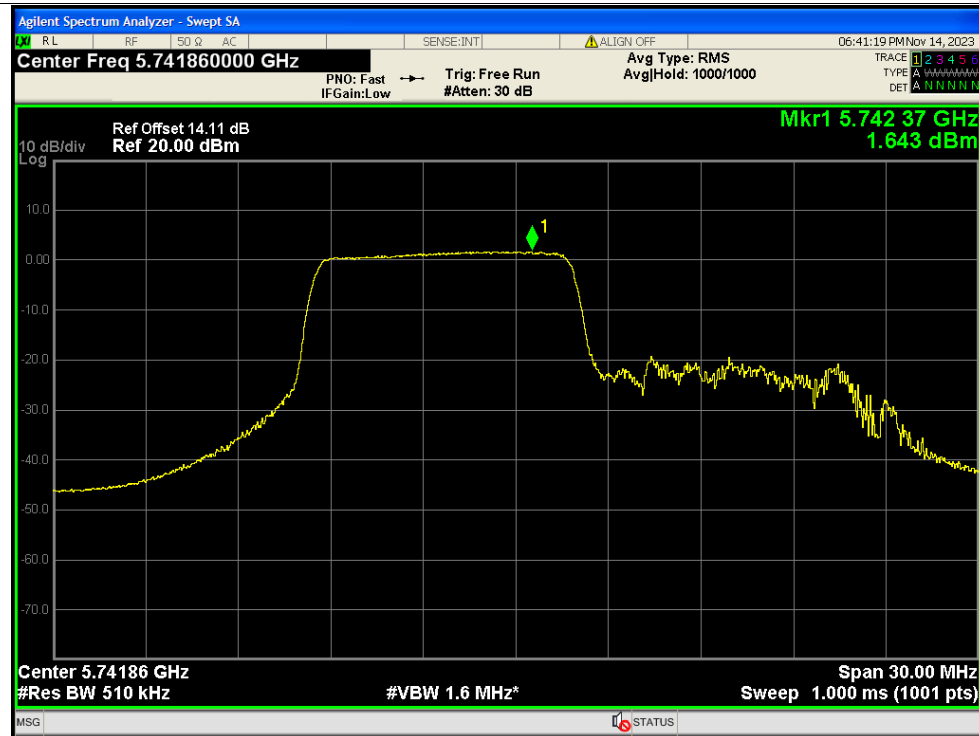


PSD NVNT ax20 106@53 5240MHz Ant2

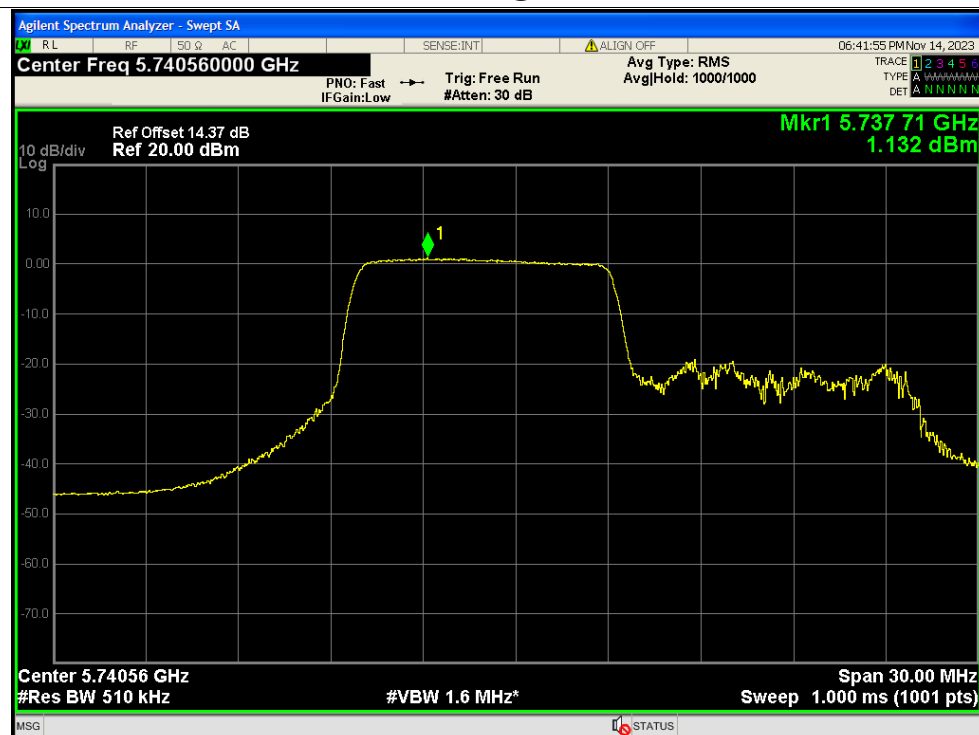




PSD NVNT ax20 106@53 5745MHz Ant1

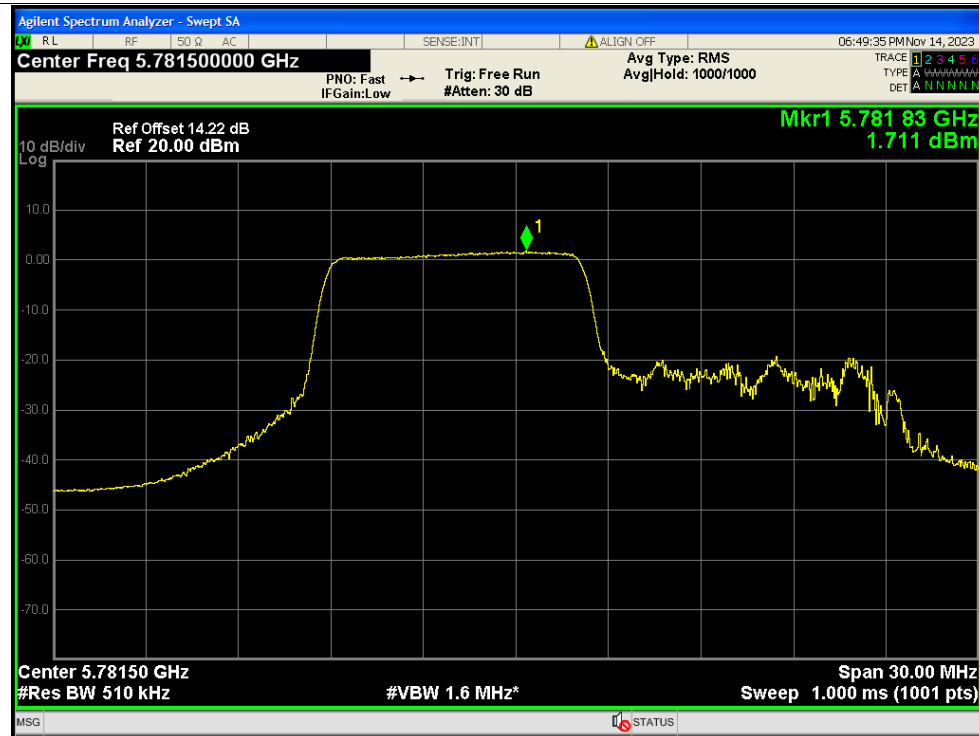


PSD NVNT ax20 106@53 5745MHz Ant2

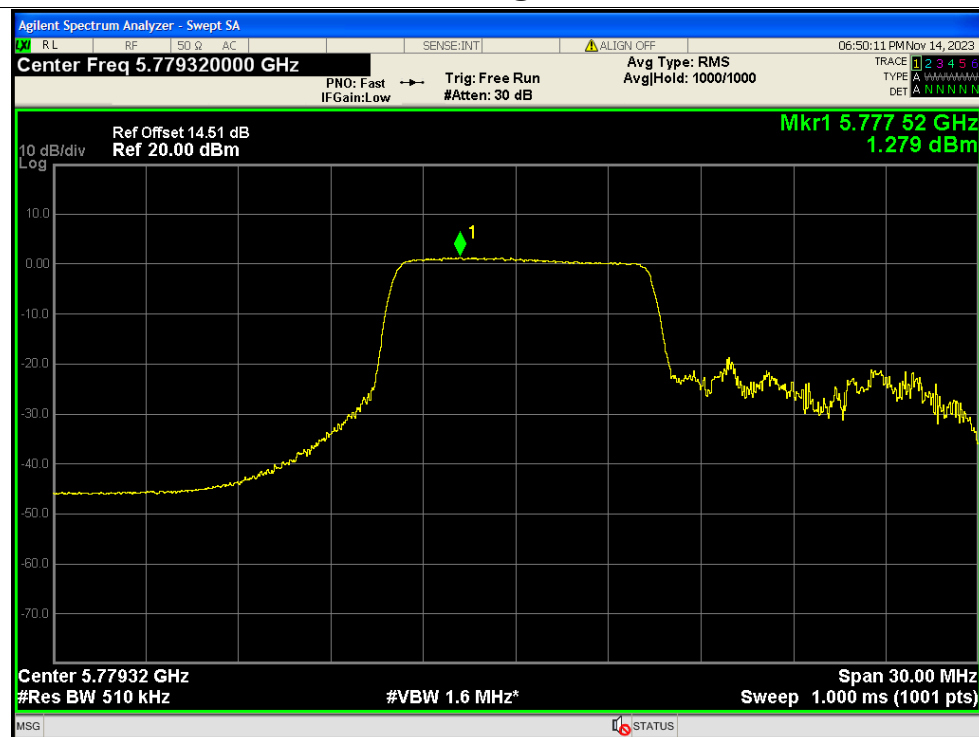




PSD NVNT ax20 106@53 5785MHz Ant1

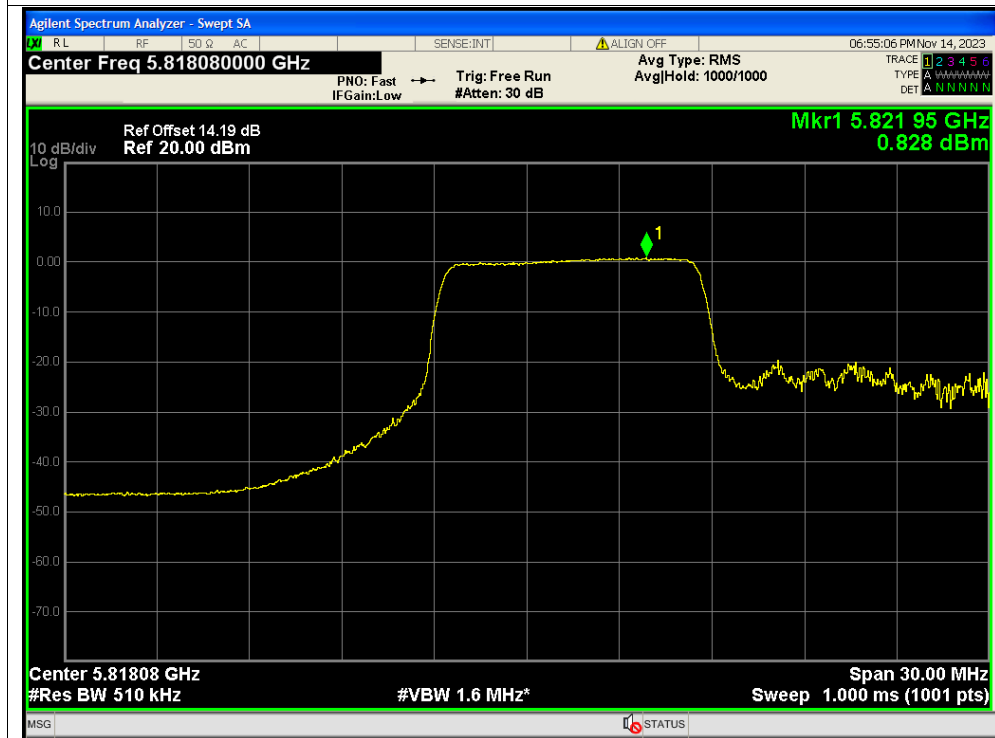


PSD NVNT ax20 106@53 5785MHz Ant2

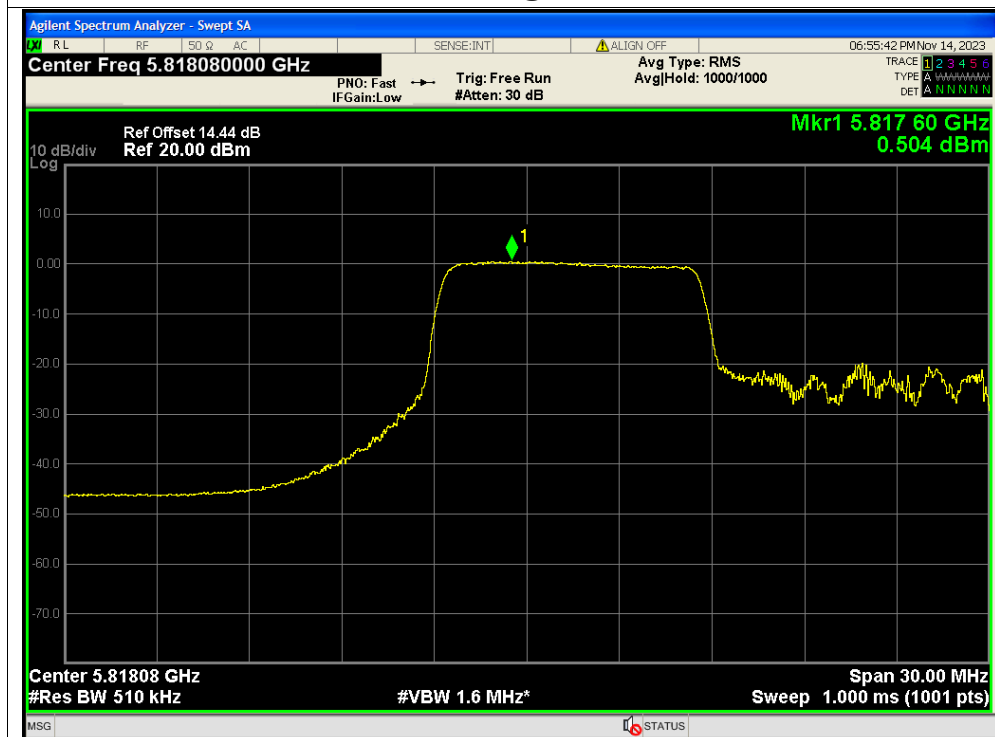




PSD NVNT ax20 106@53 5825MHz Ant1

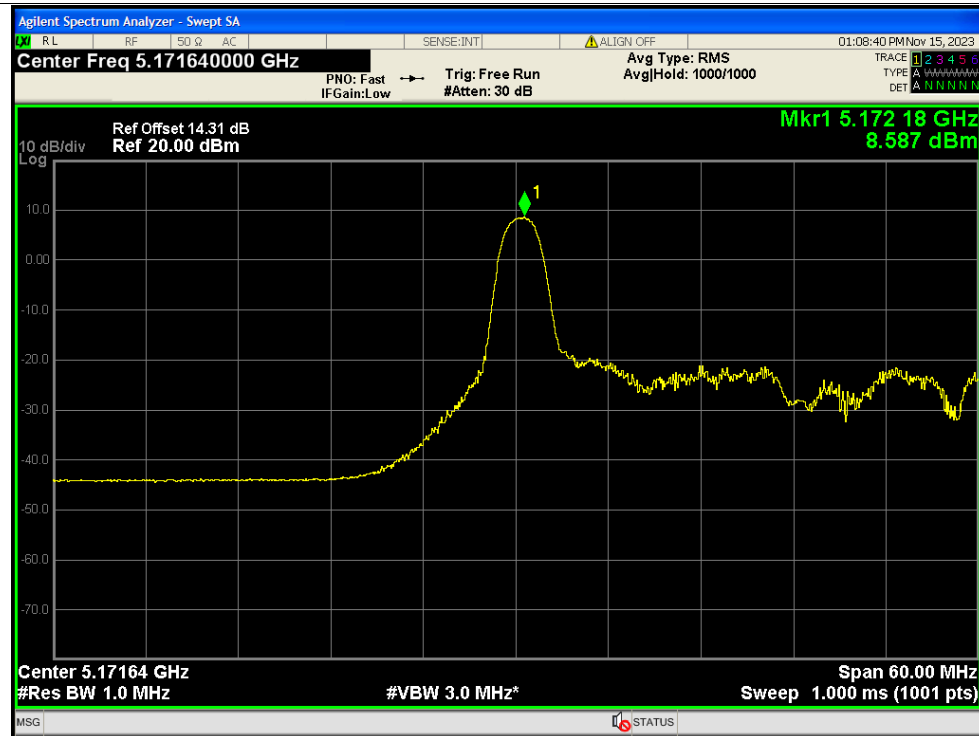


PSD NVNT ax20 106@53 5825MHz Ant2

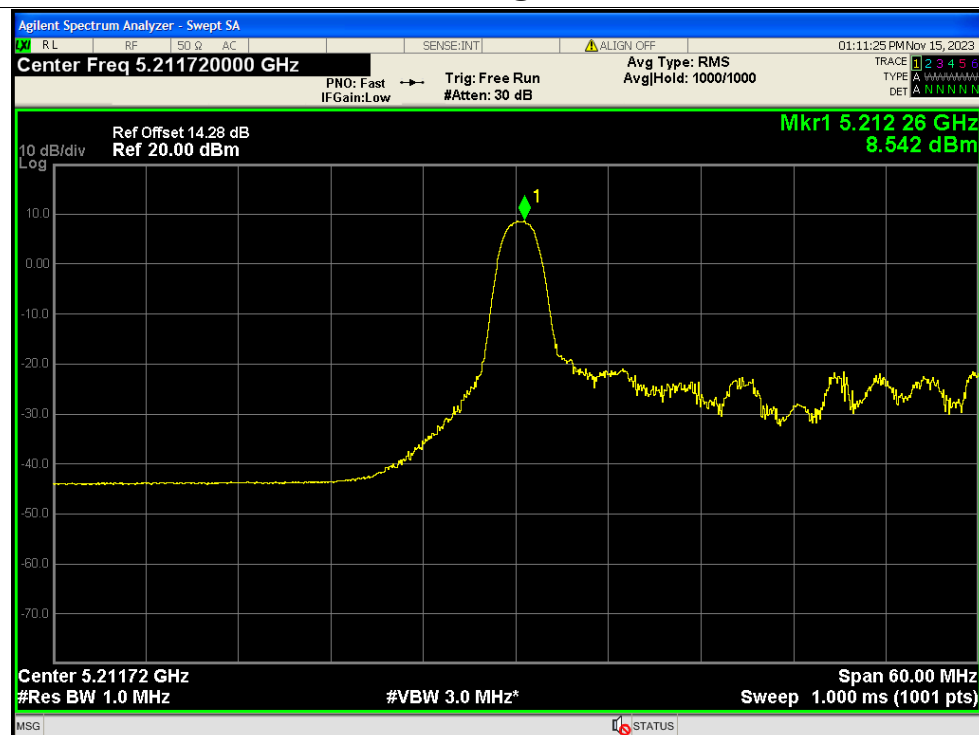




PSD NVNT ax40 26@0 5190MHz Ant1



PSD NVNT ax40 26@0 5230MHz Ant1

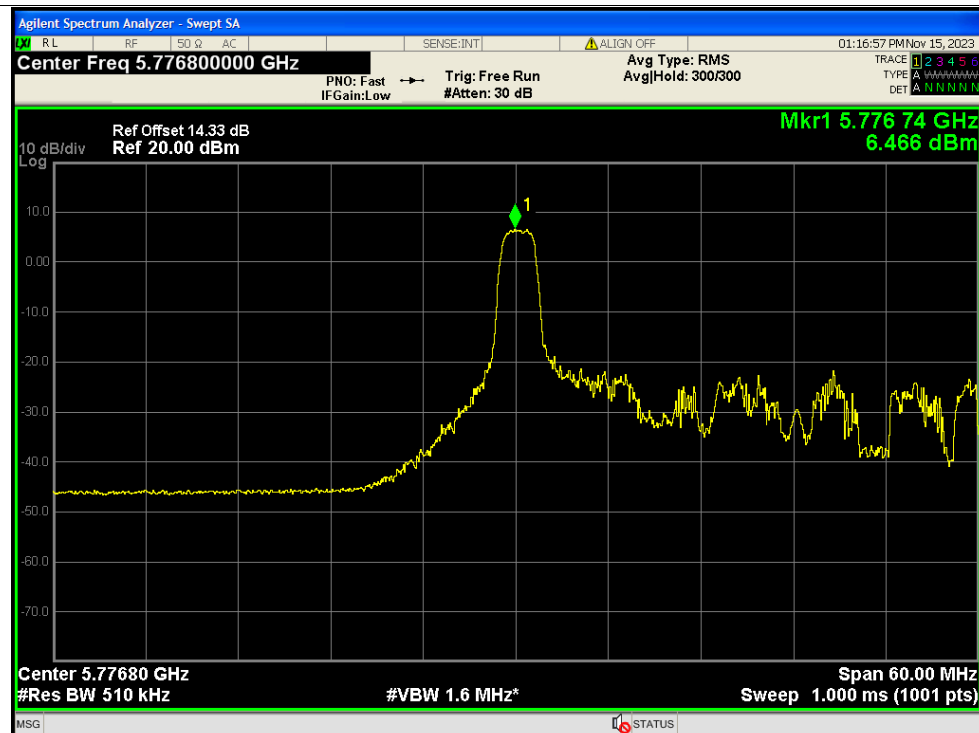




PSD NVNT ax40 26@0 5755MHz Ant1

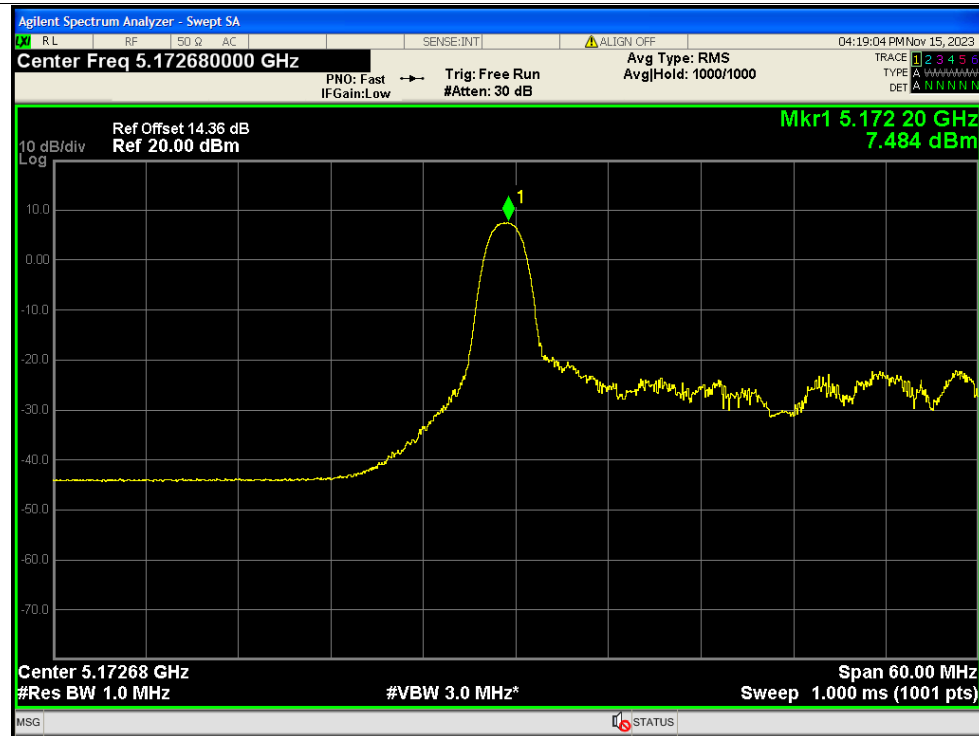


PSD NVNT ax40 26@0 5795MHz Ant1

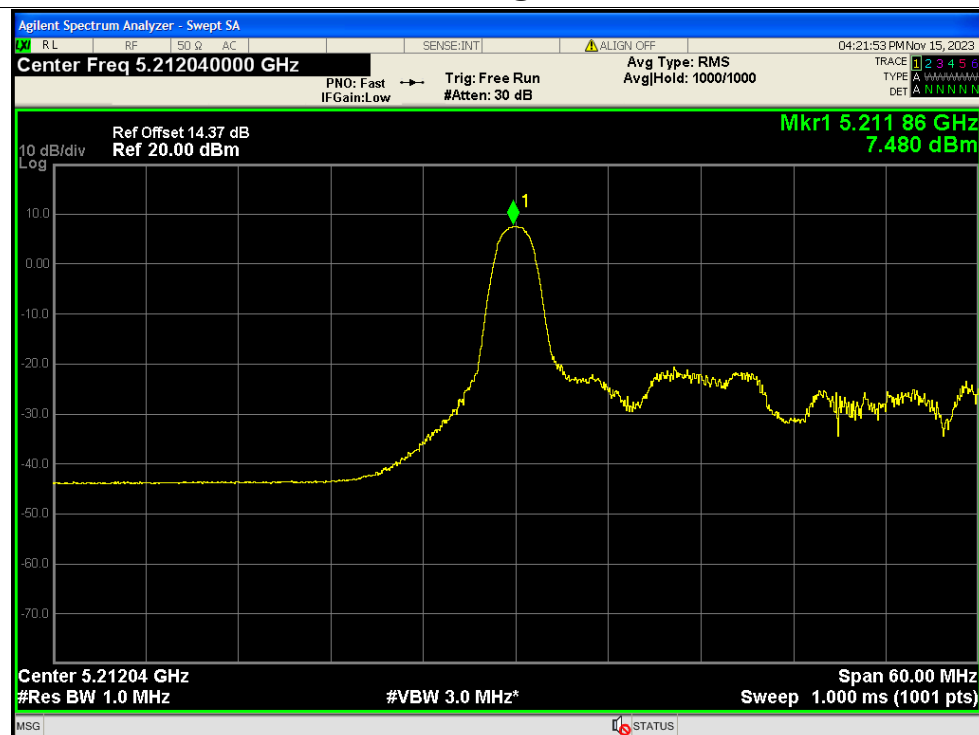




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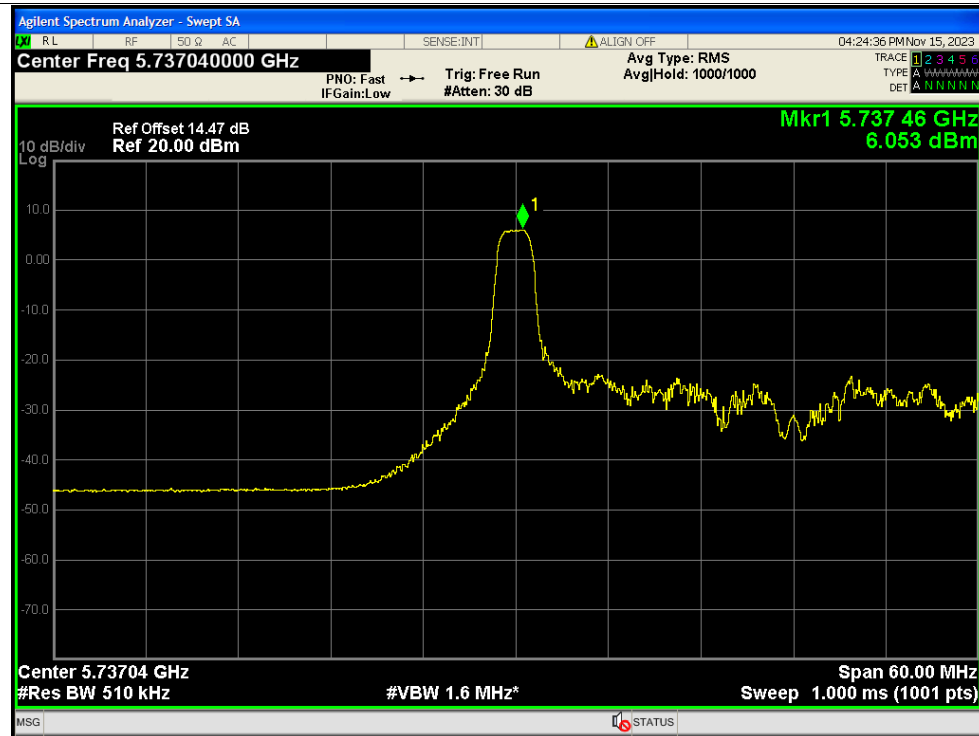


PSD NVNT ax40 26@0 5230MHz Ant2

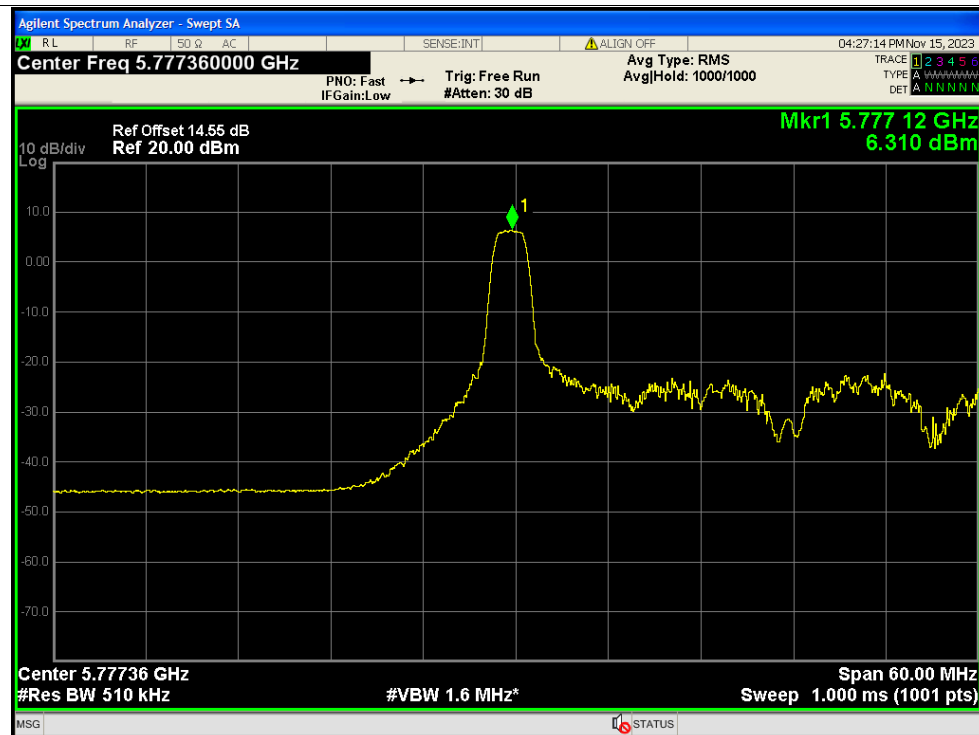




PSD NVNT ax40 26@0 5755MHz Ant2

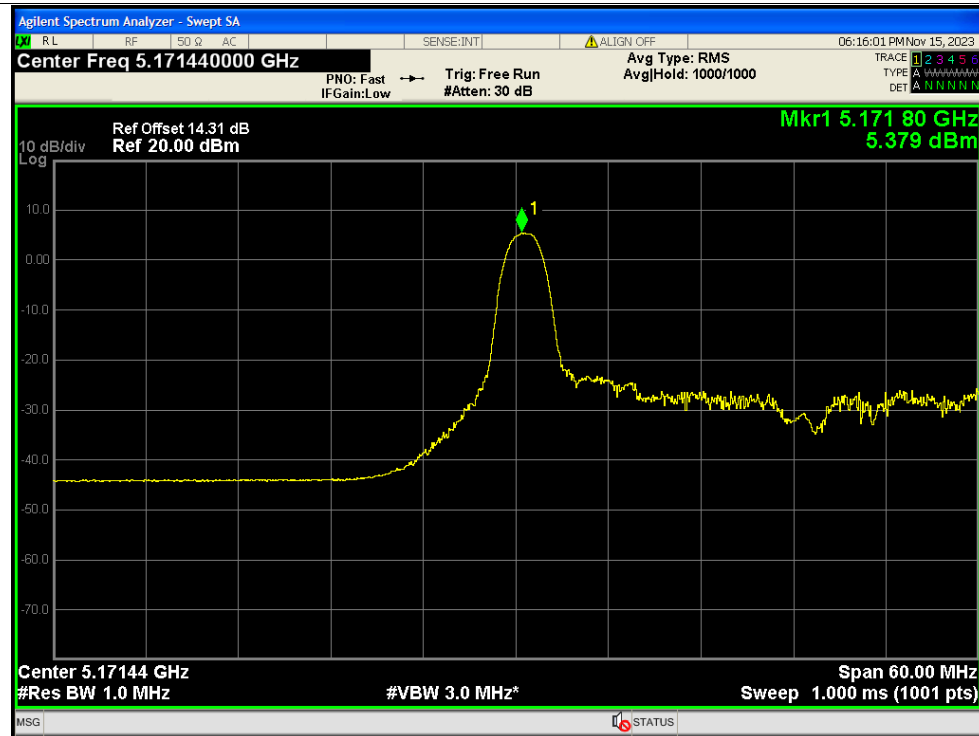


PSD NVNT ax40 26@0 5795MHz Ant2

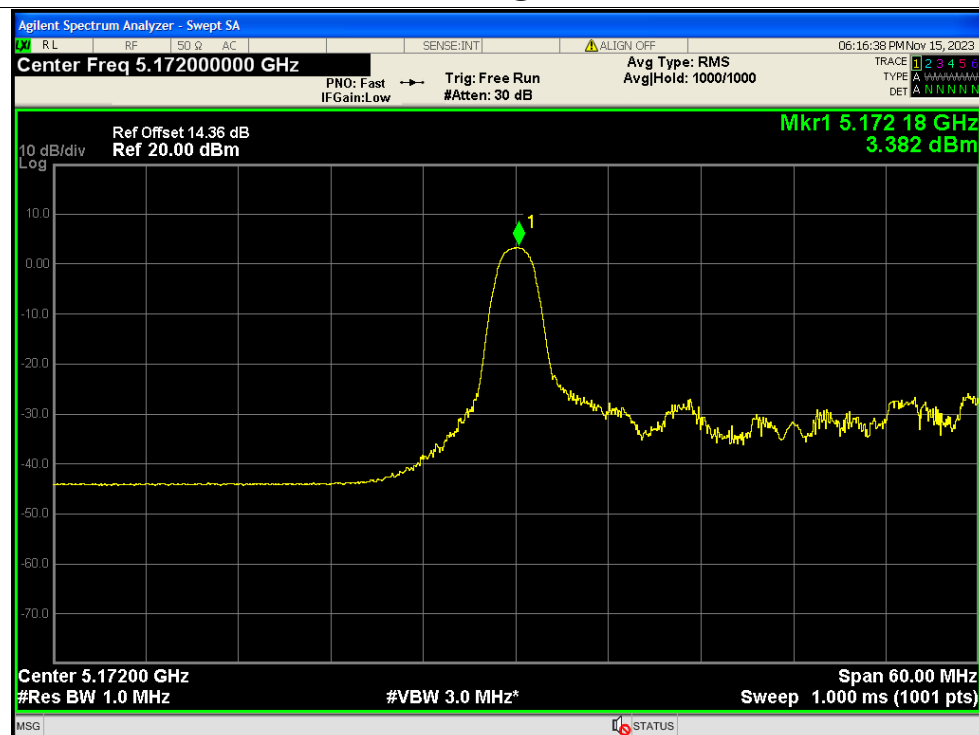




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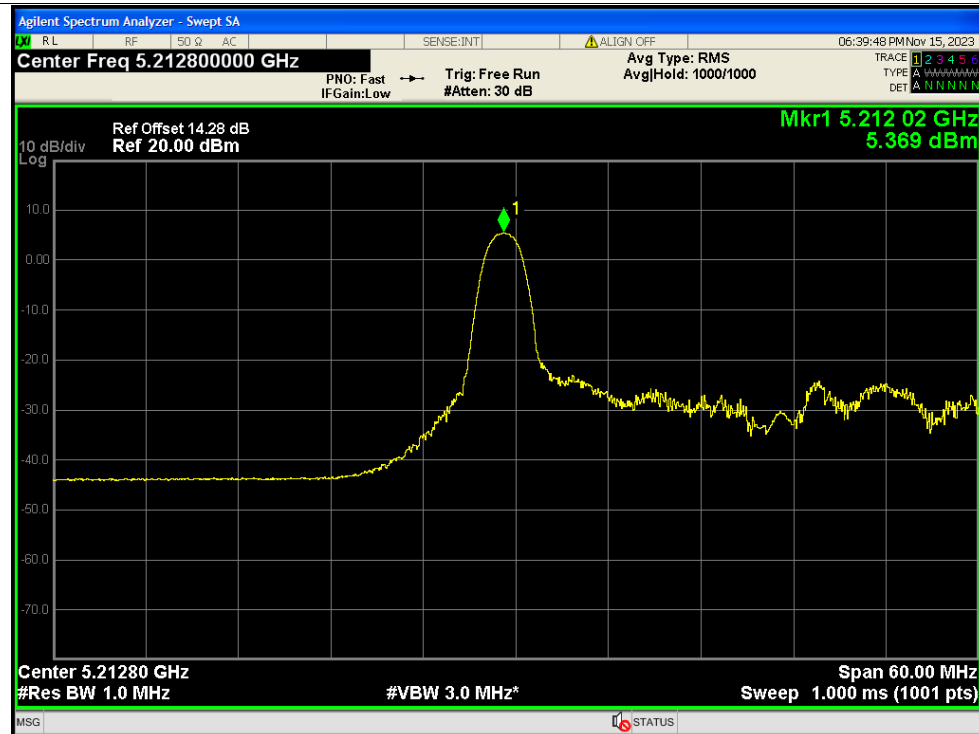


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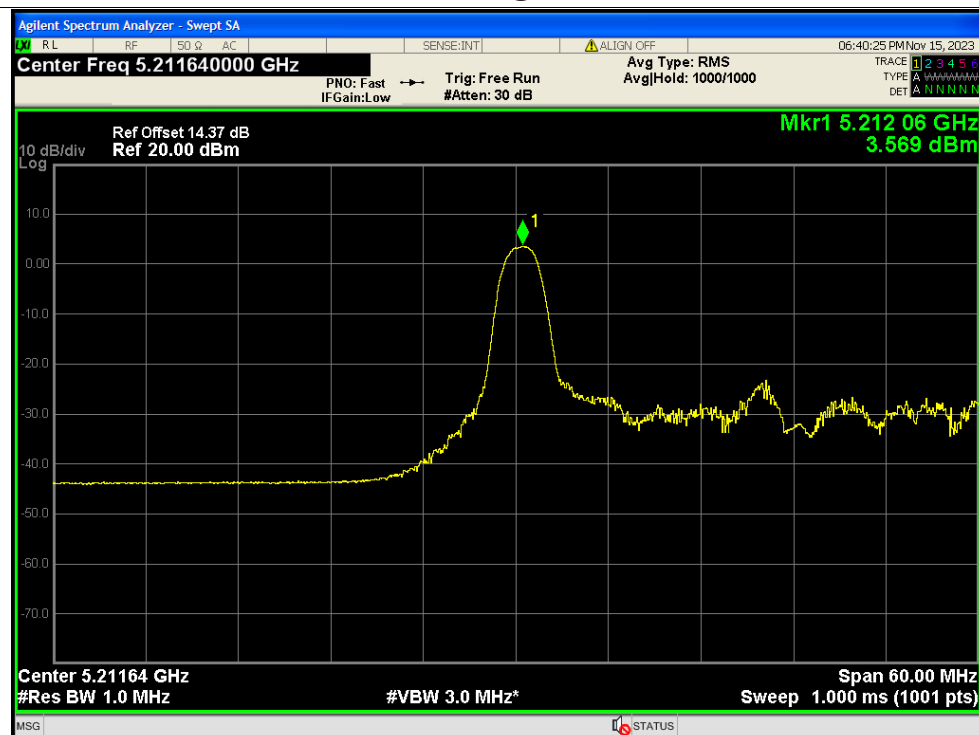




PSD NVNT ax40 26@0 5230MHz Ant1



PSD NVNT ax40 26@0 5230MHz Ant2

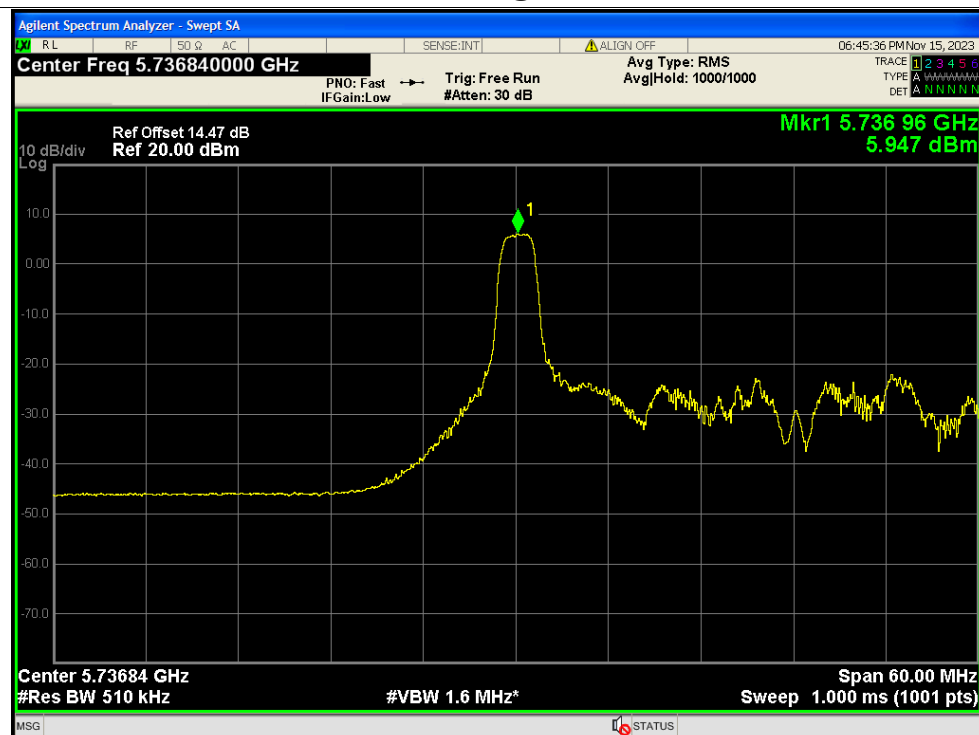




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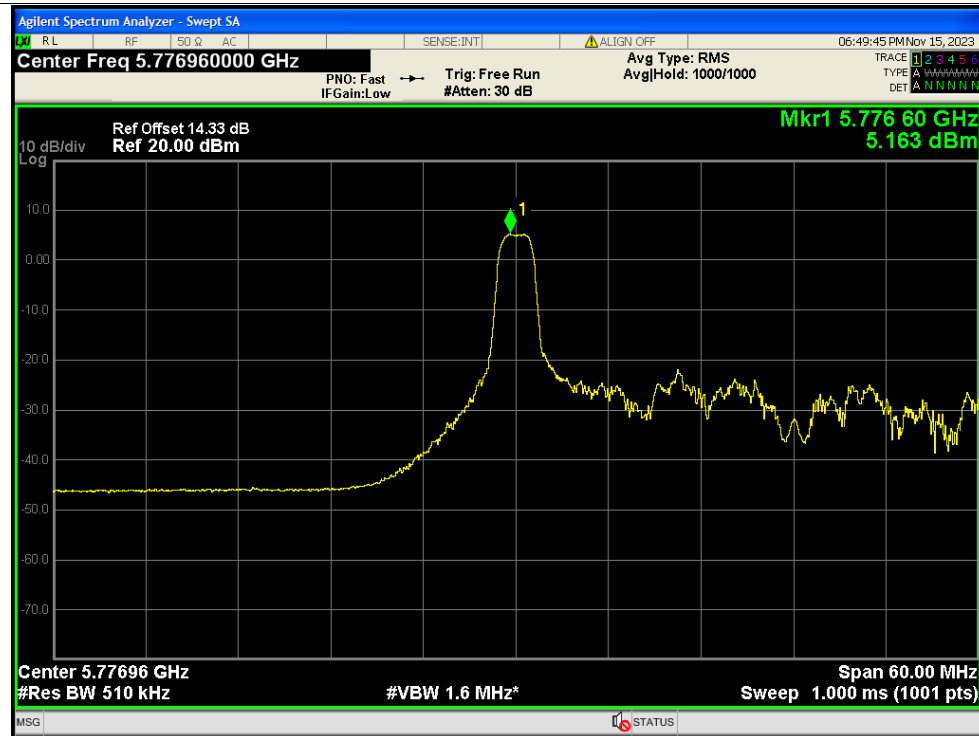


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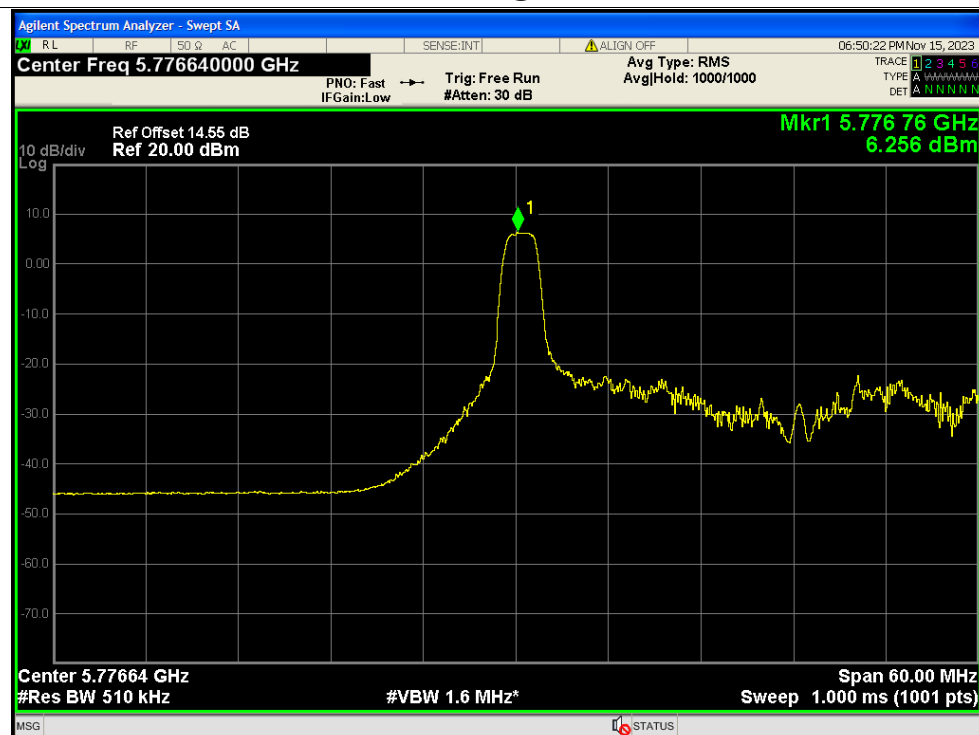




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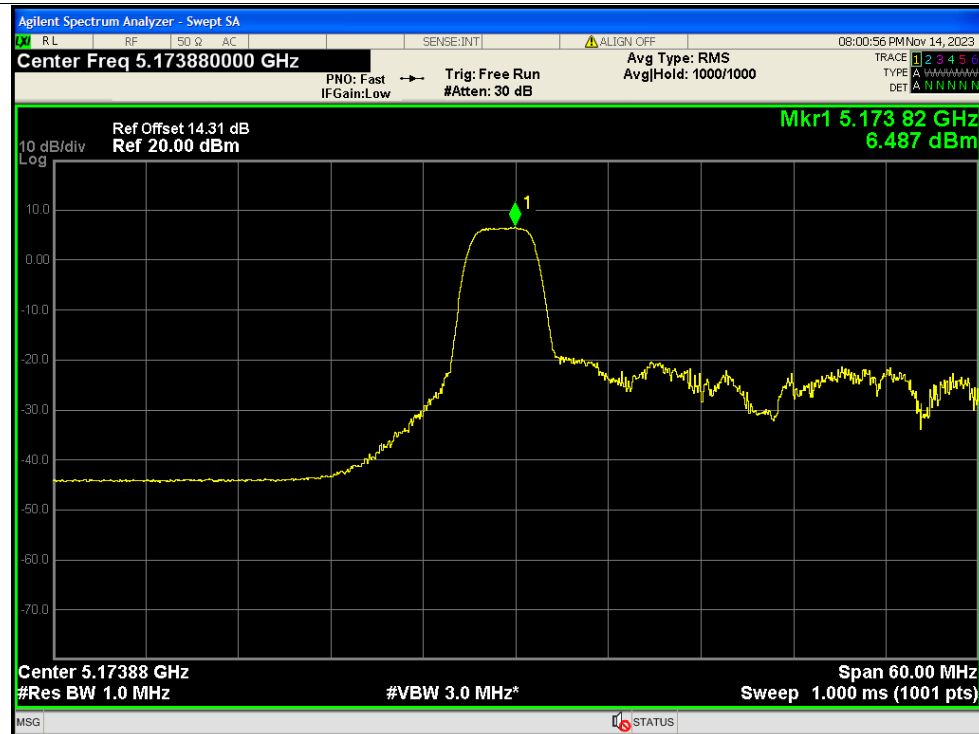


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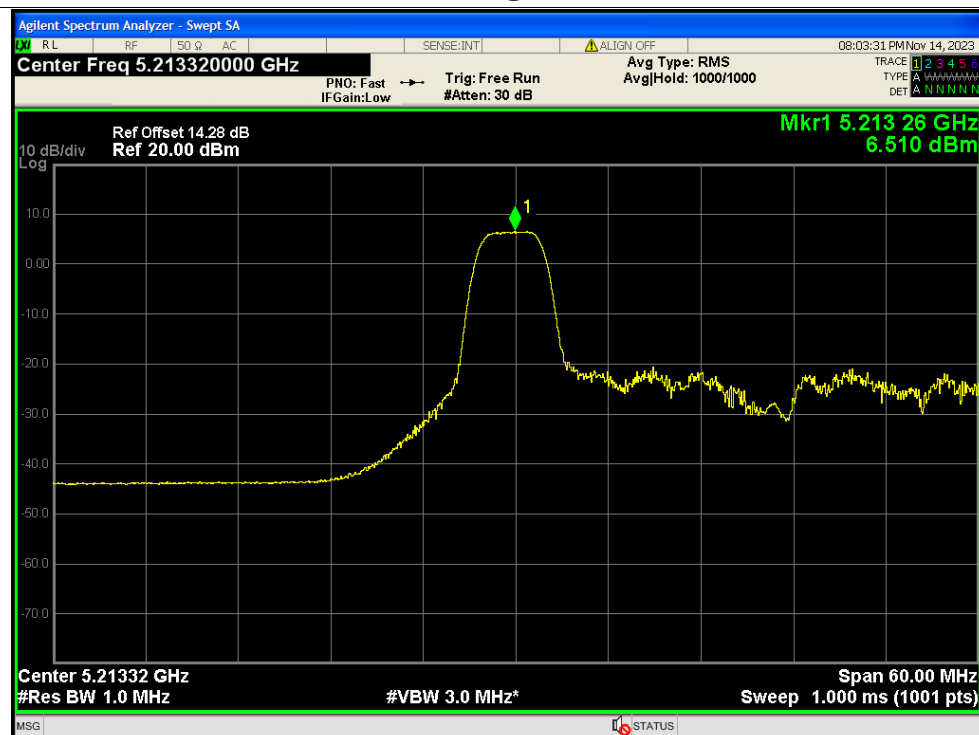




PSD NVNT ax40 52@37 5190MHz Ant1

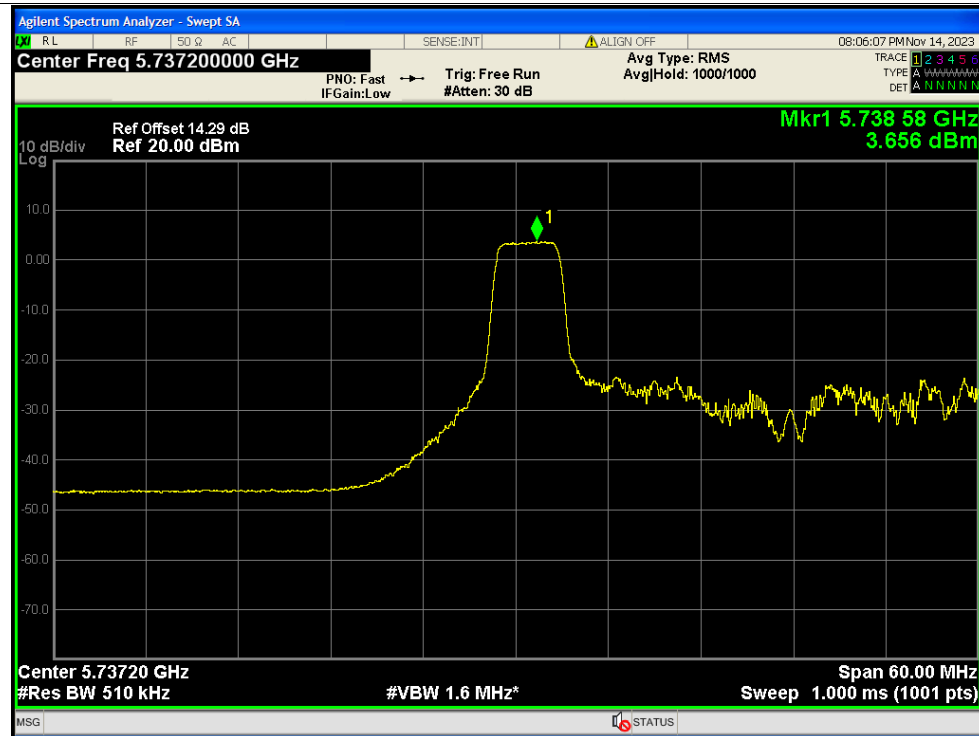


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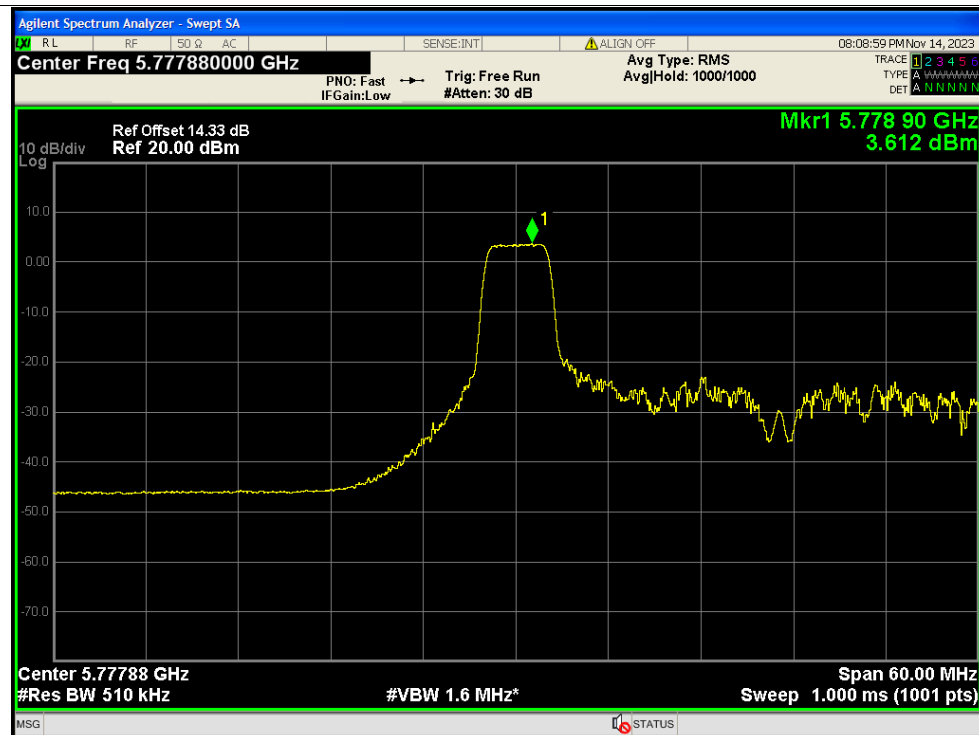




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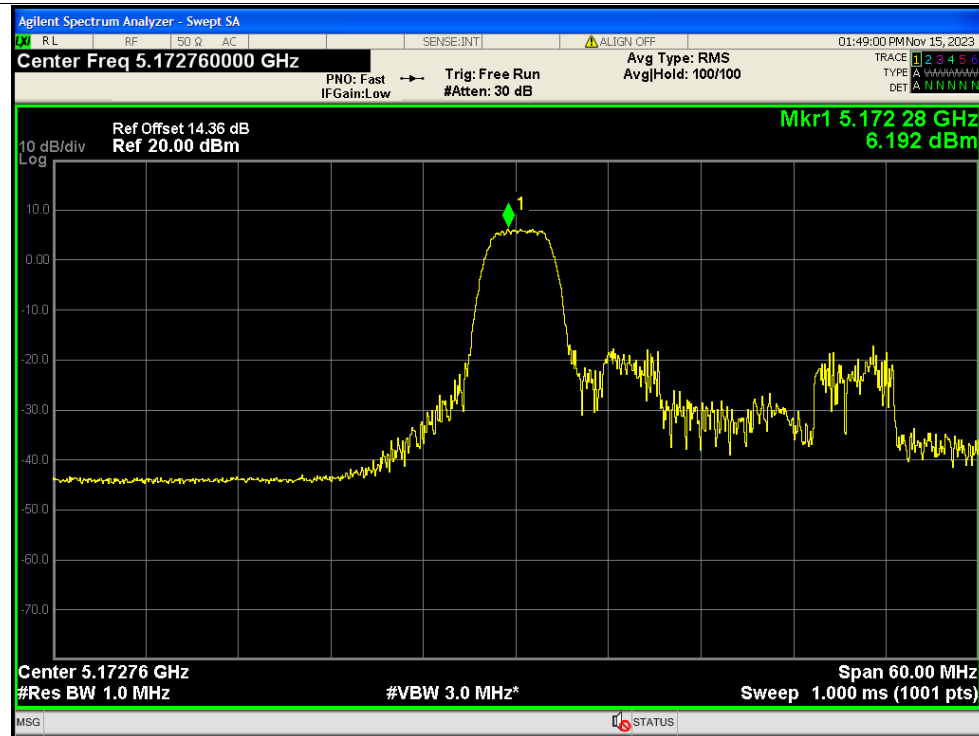


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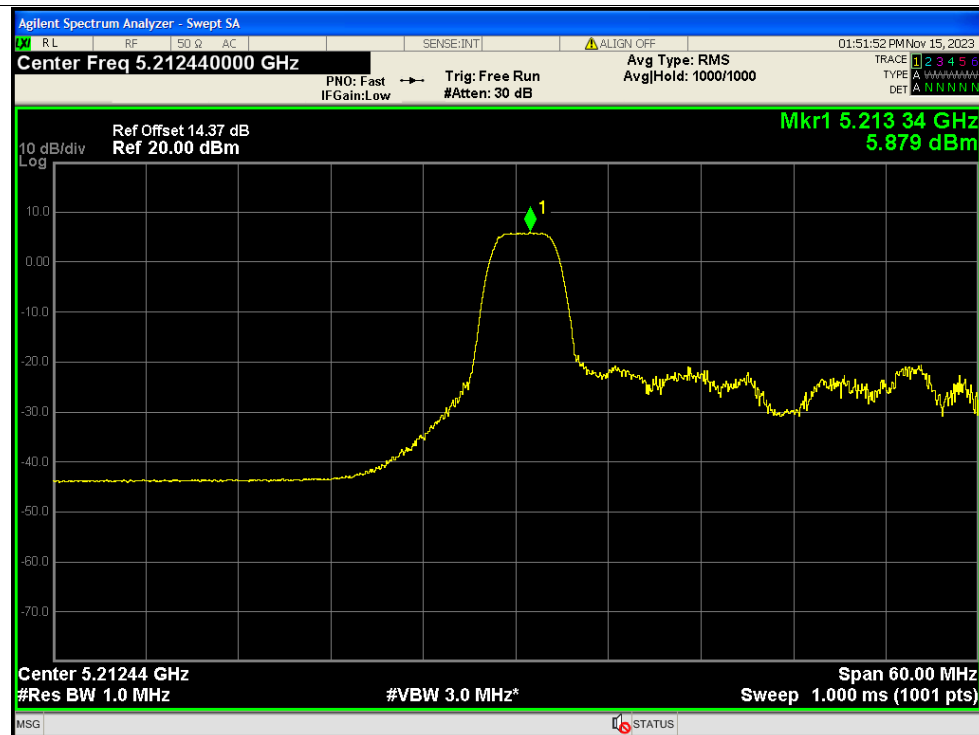




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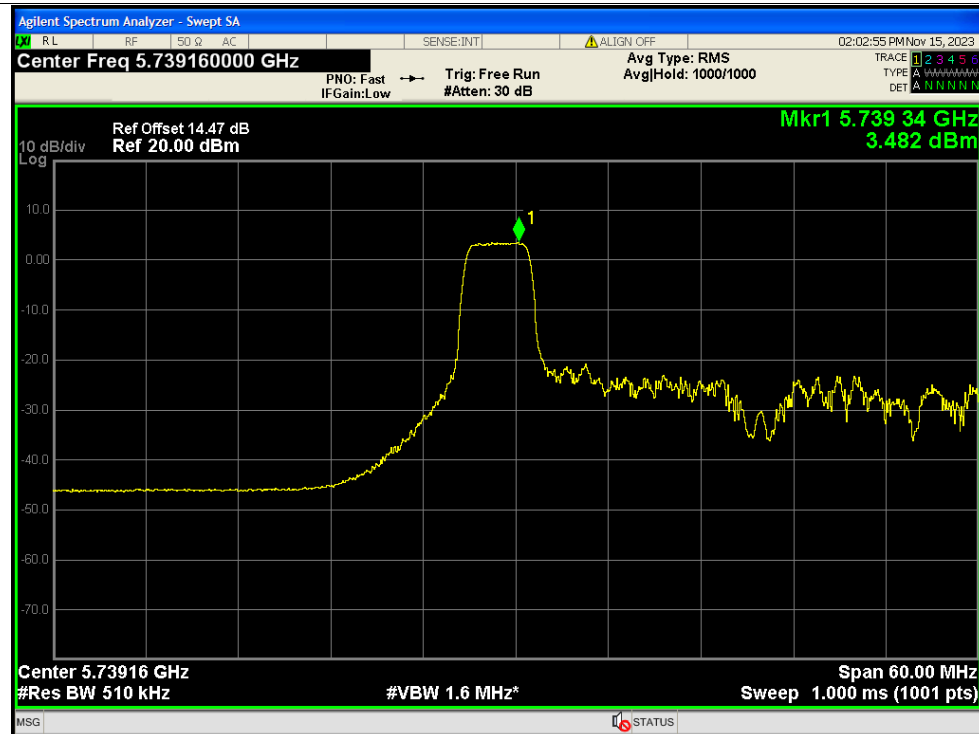


PSD NVNT ax40 52@37 5230MHz Ant2

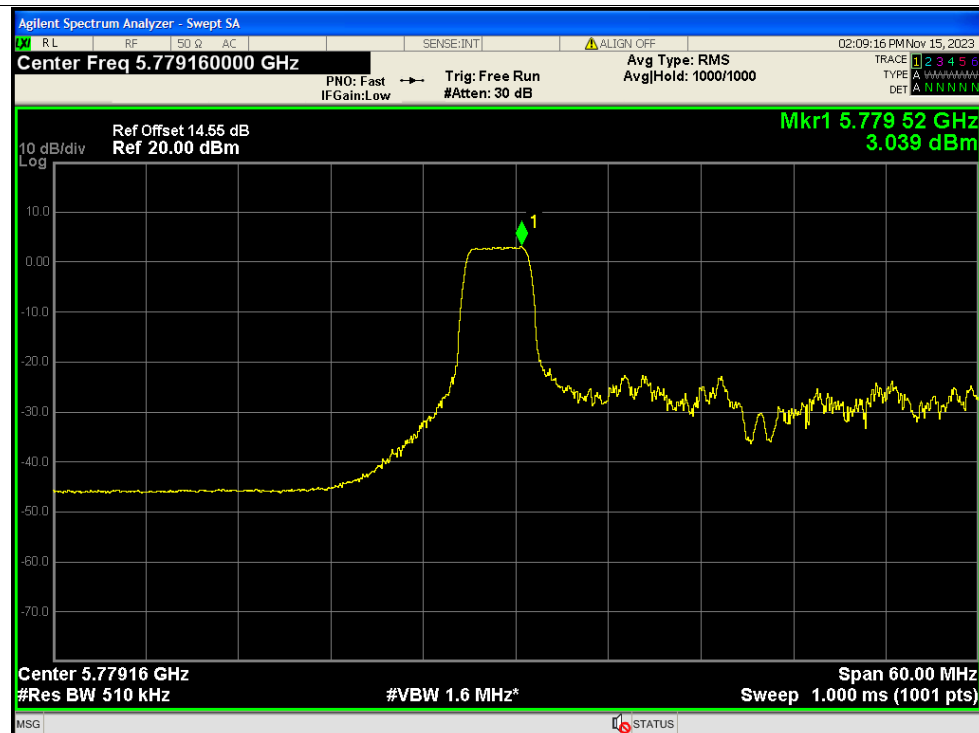




PSD NVNT ax40 52@37 5755MHz Ant2

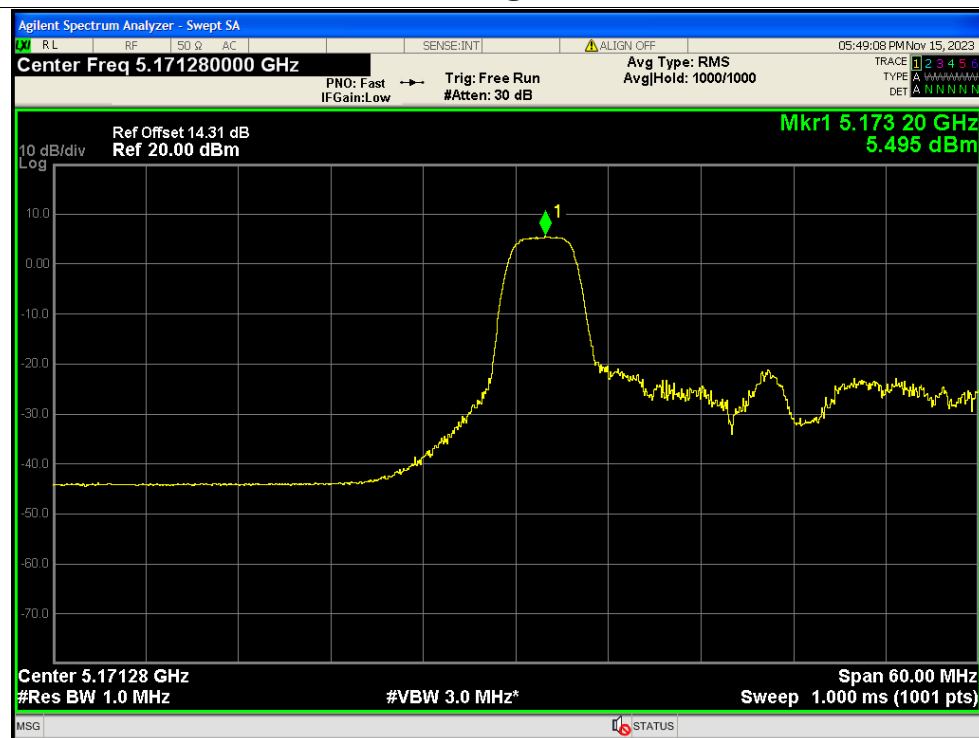


PSD NVNT ax40 52@37 5795MHz Ant2

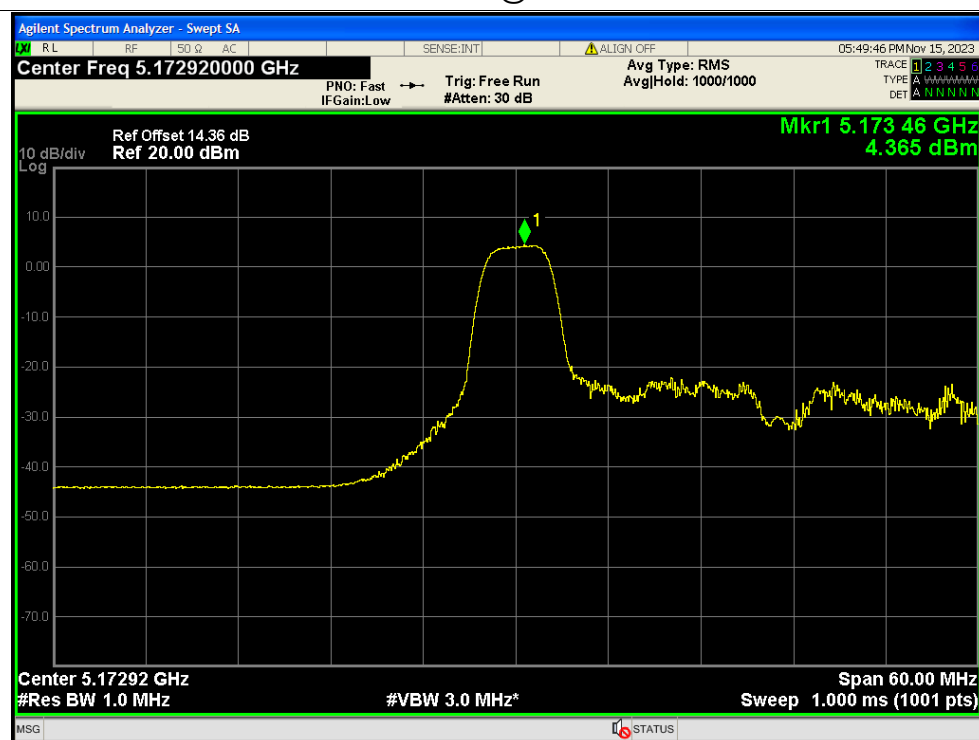




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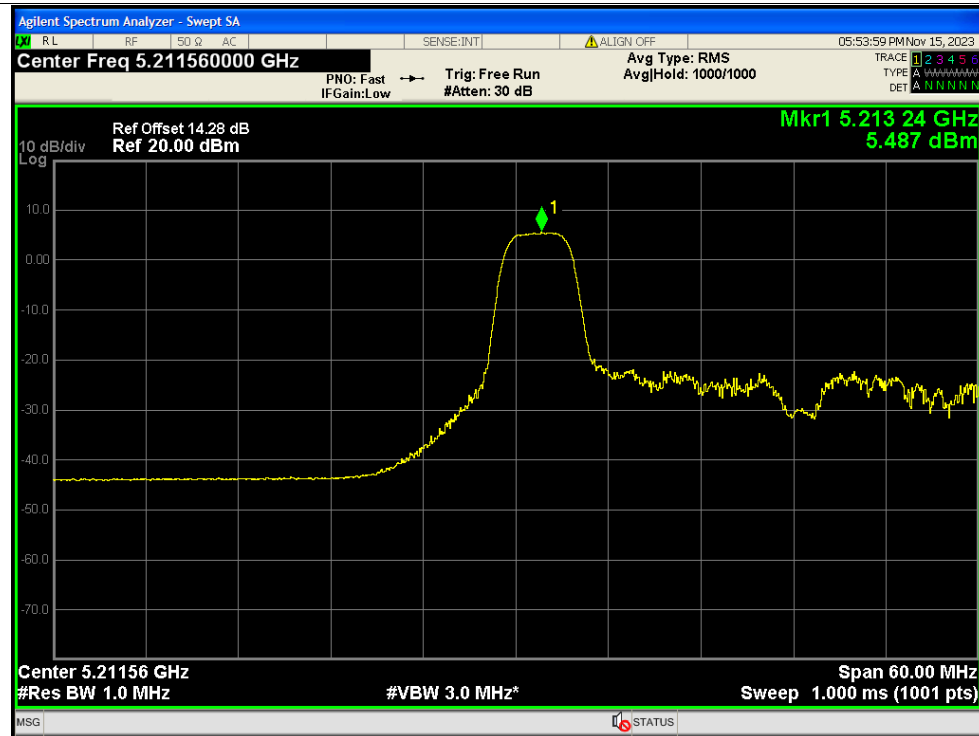


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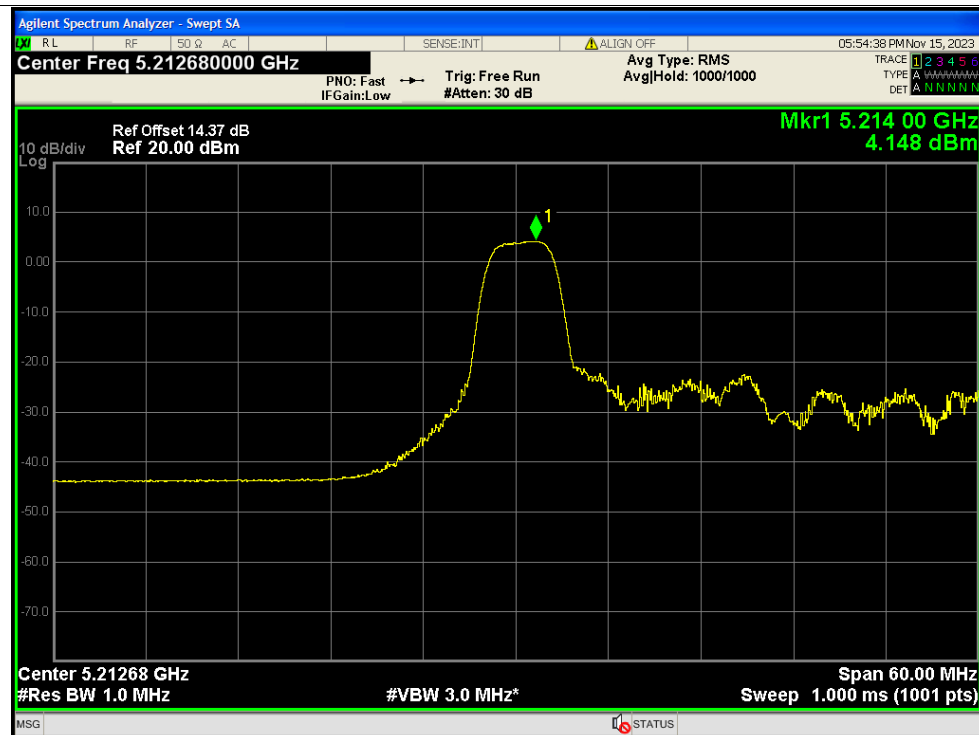




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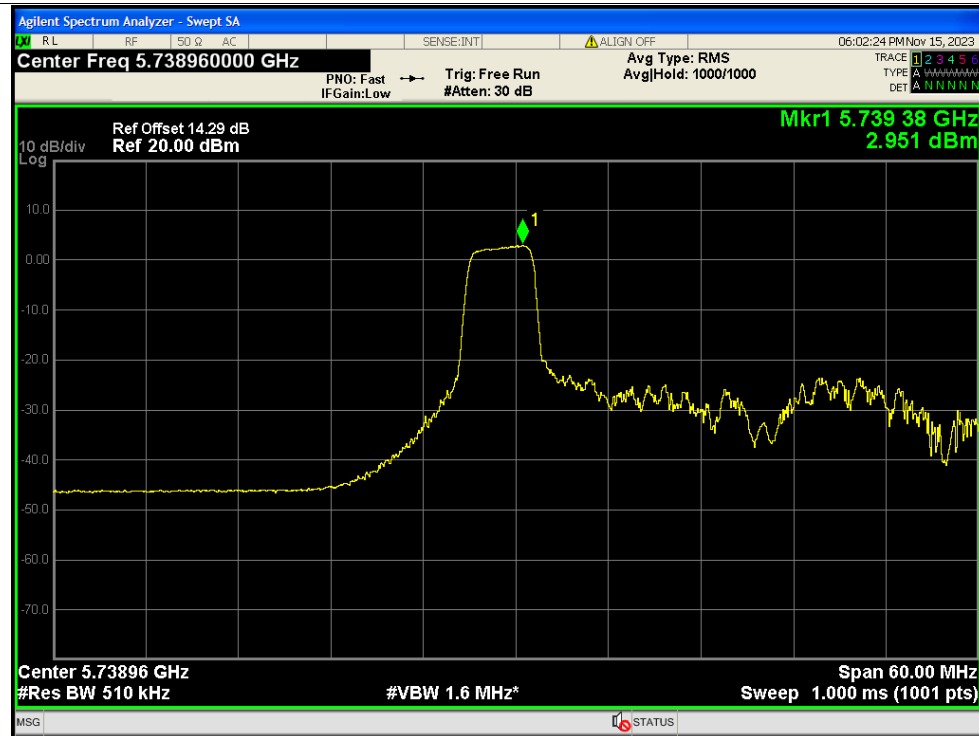


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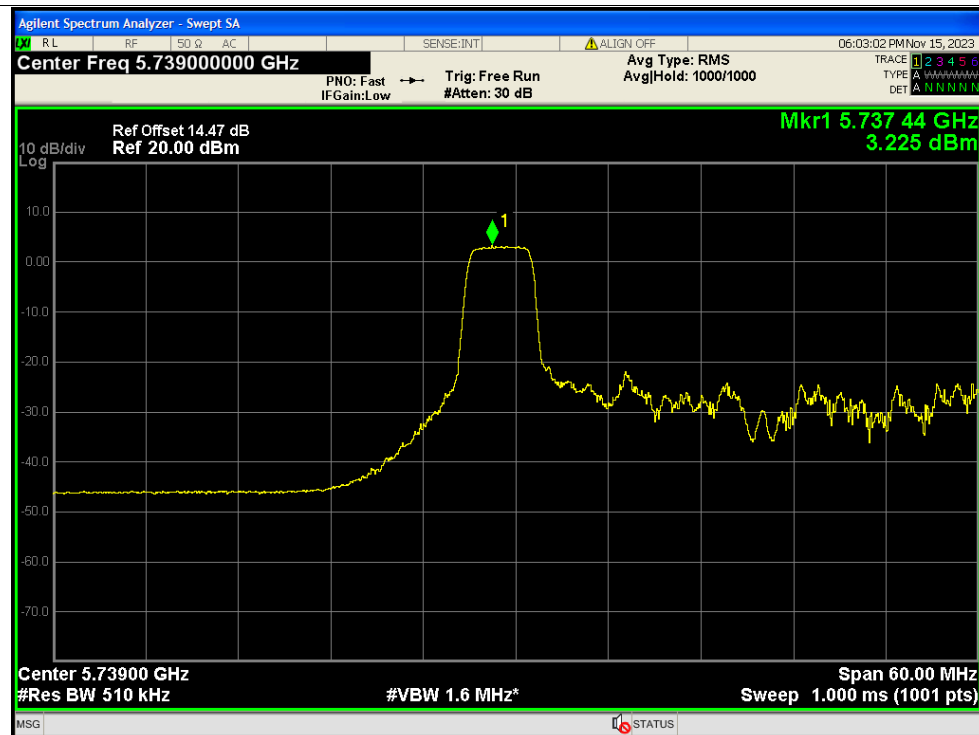




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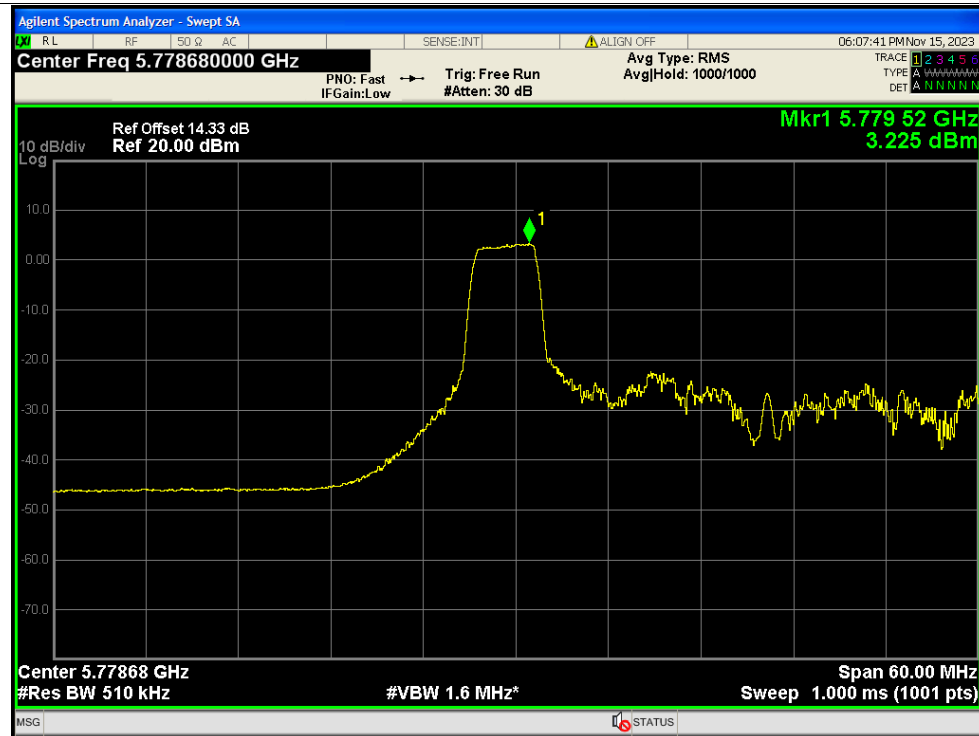


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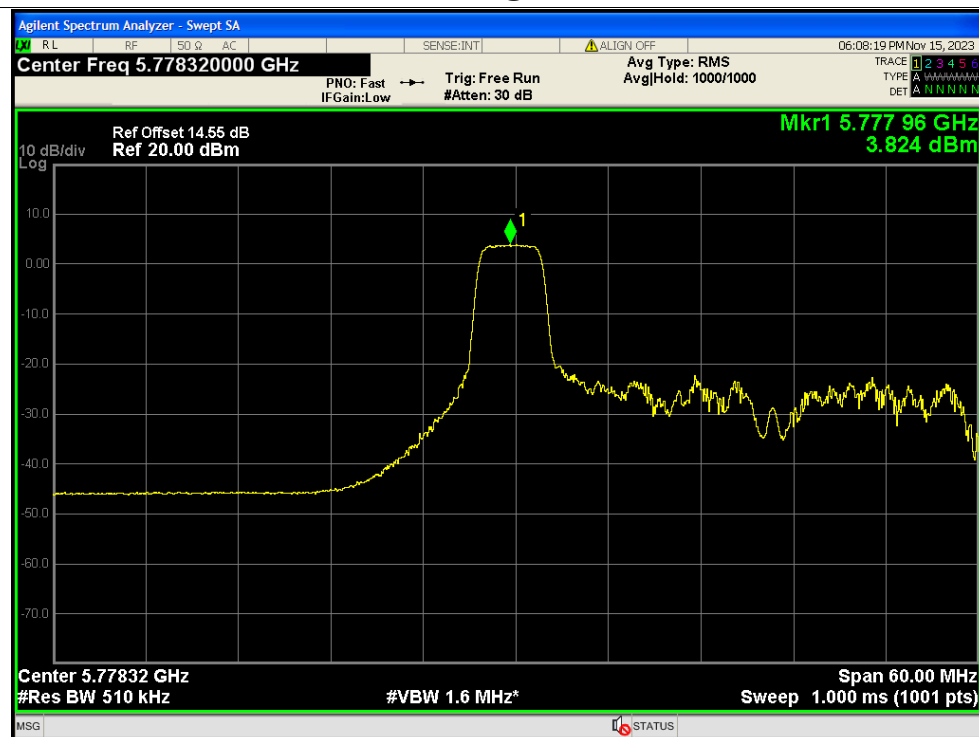




PSD NVNT ax40 52@37 5795MHz Ant1

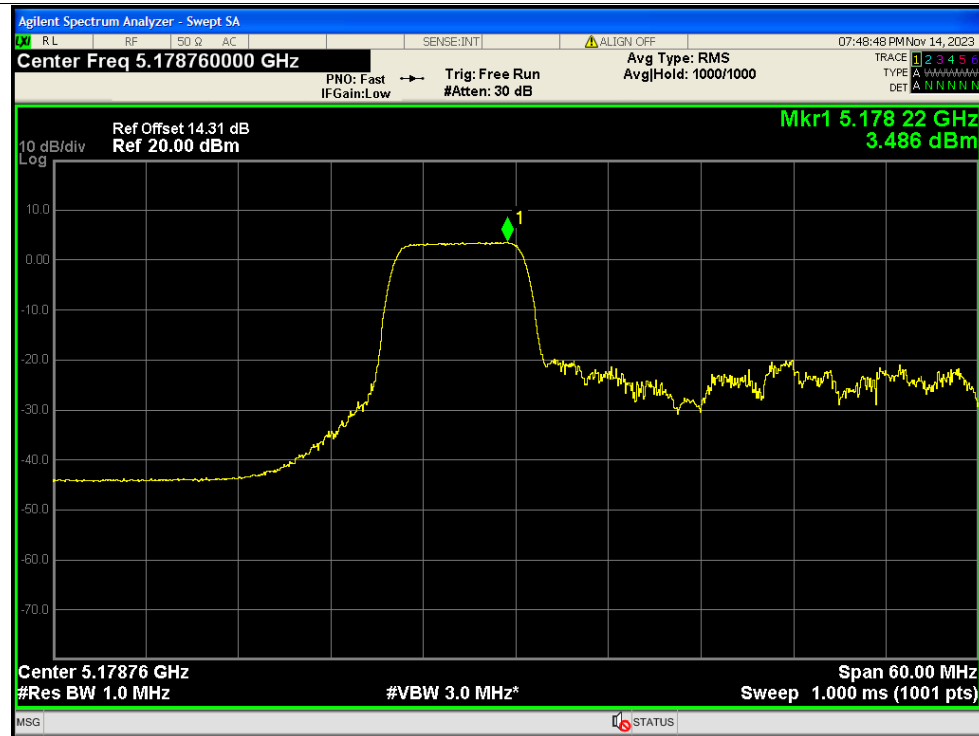


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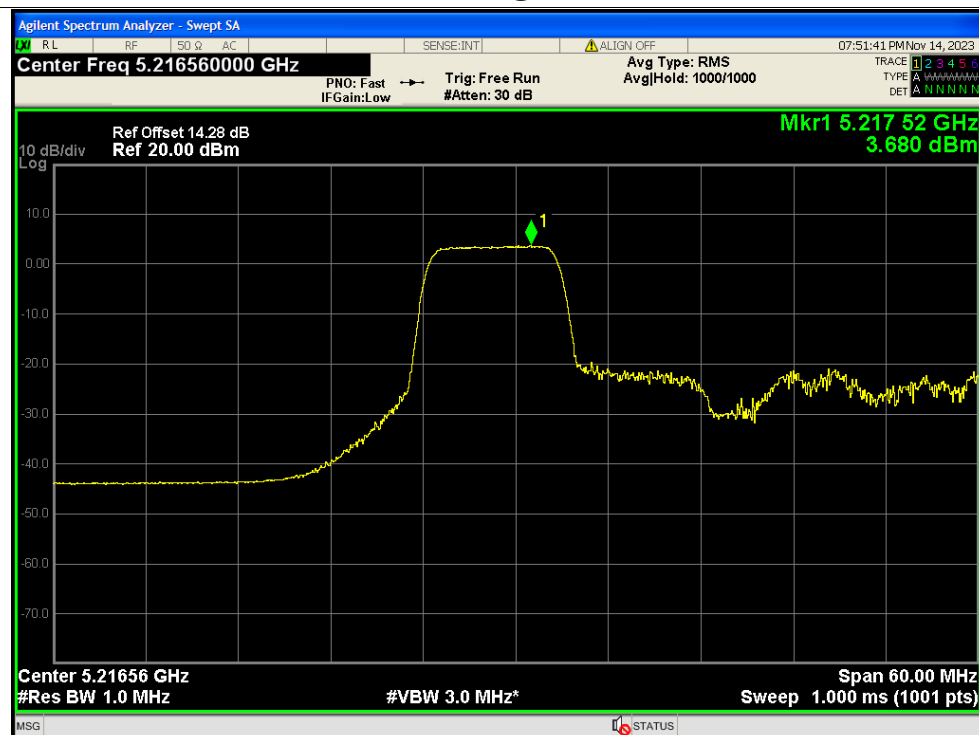




PSD NVNT ax40 106@53 5190MHz Ant1

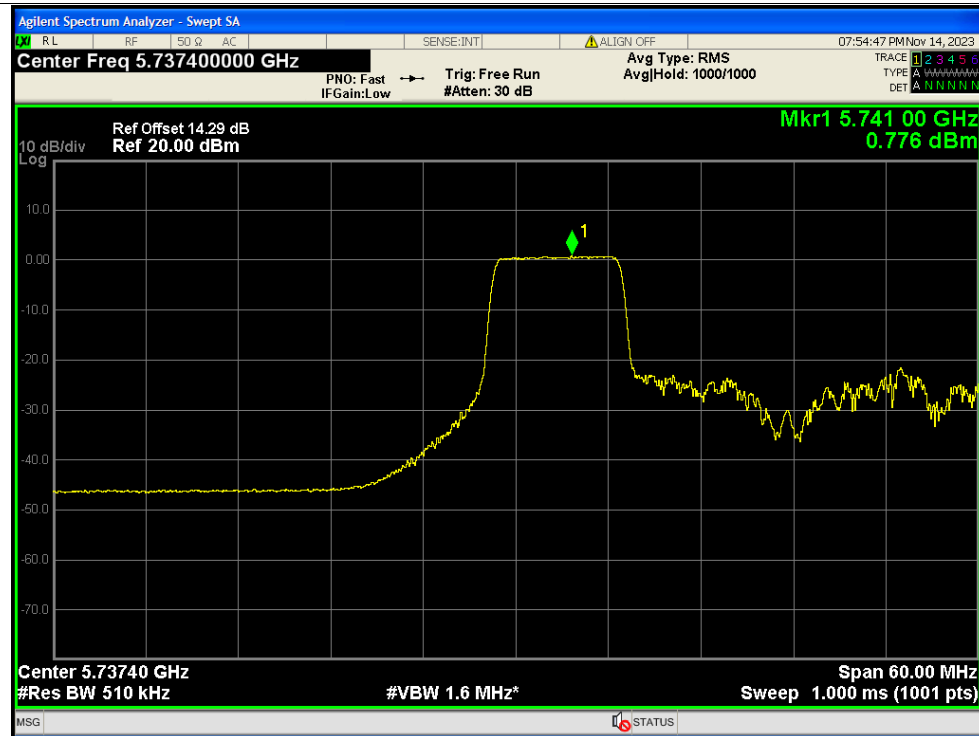


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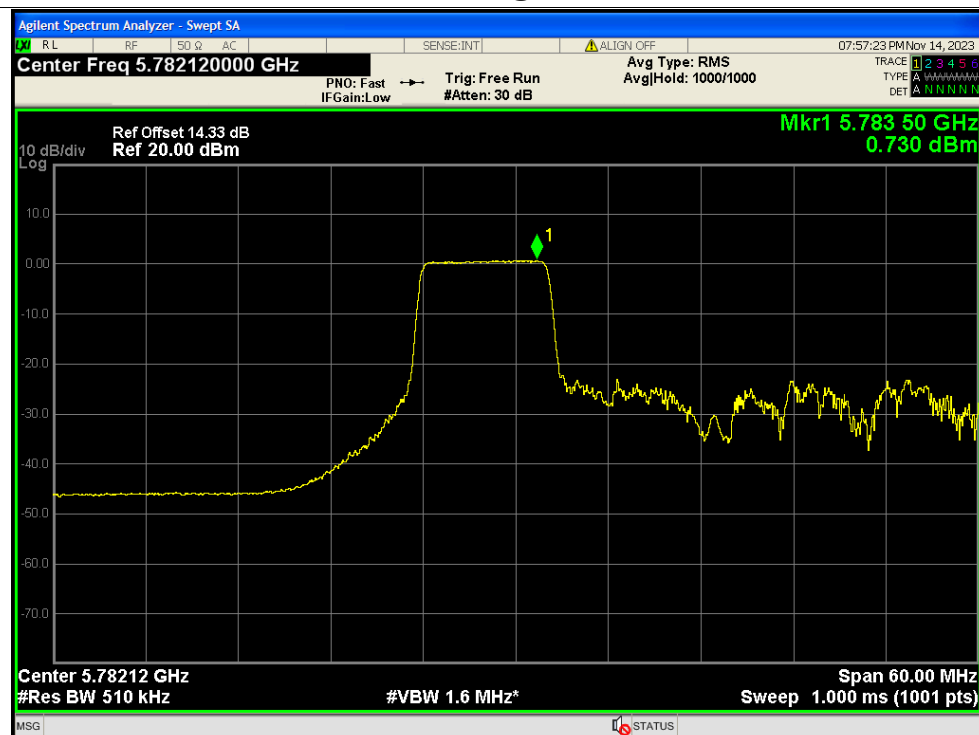




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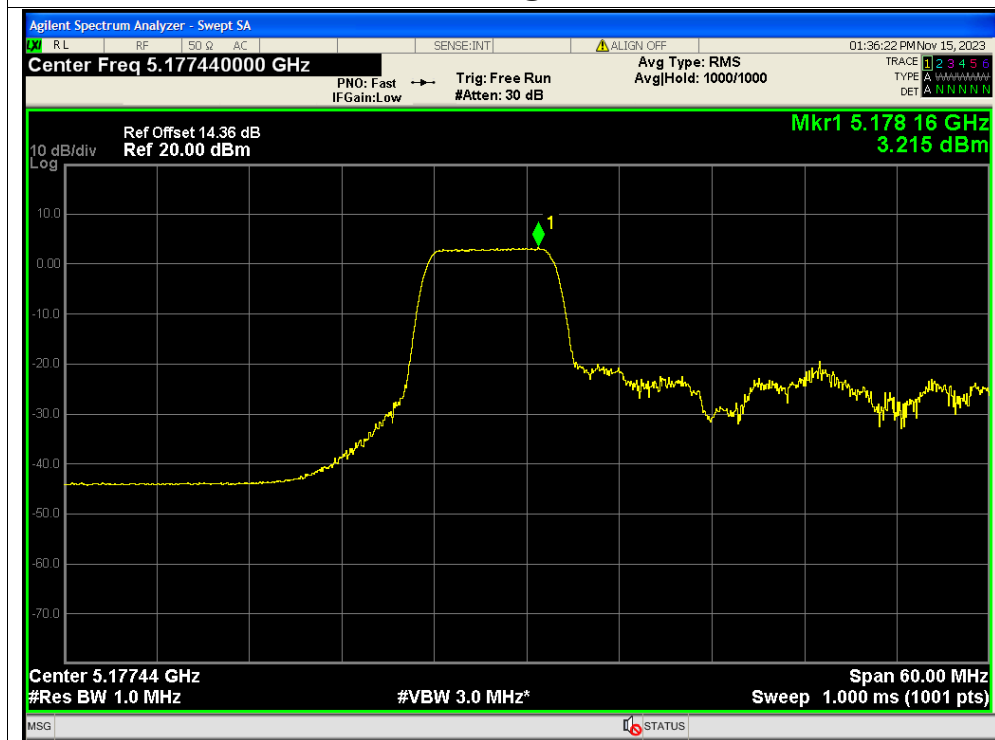


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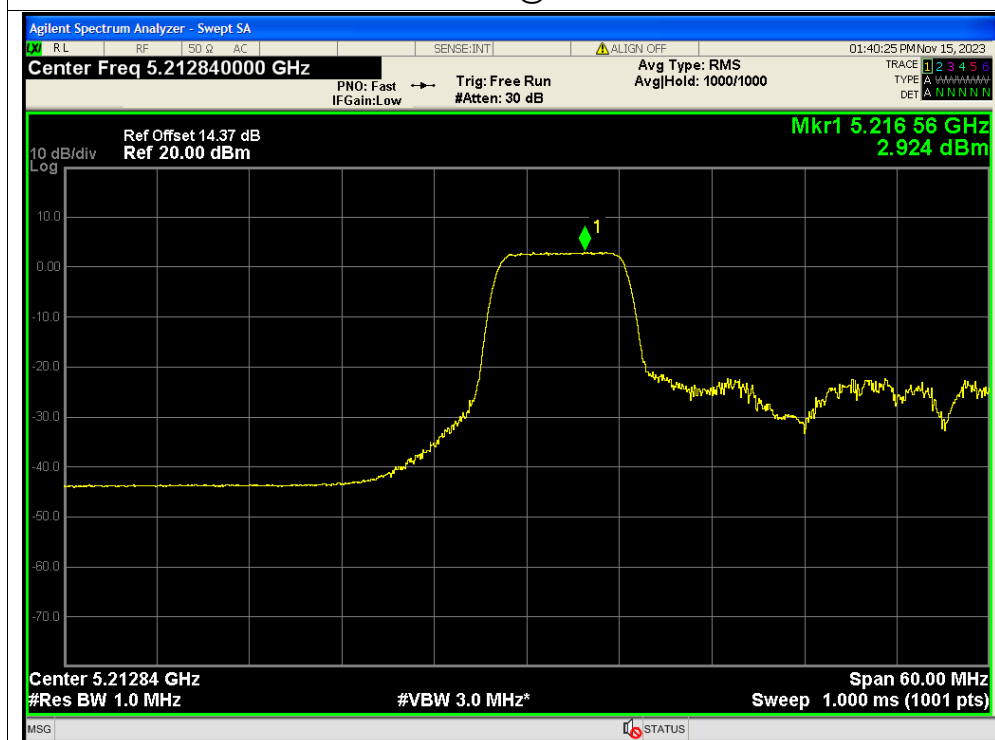




PSD NVNT ax40 106@53 5190MHz Ant2



PSD NVNT ax40 106@53 5230MHz Ant2

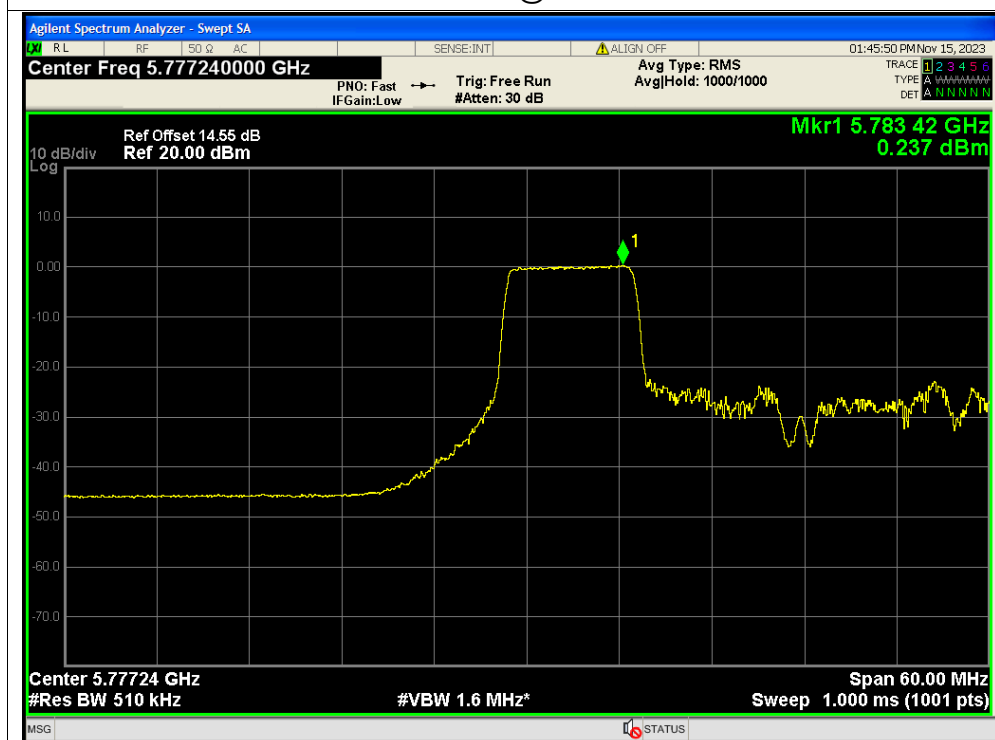




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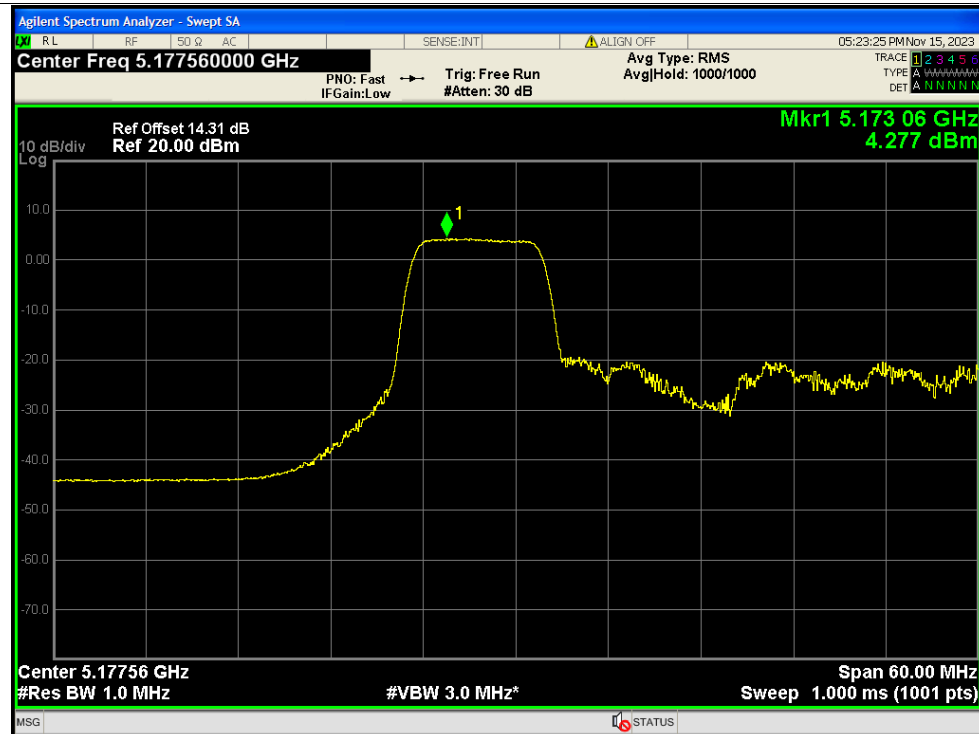


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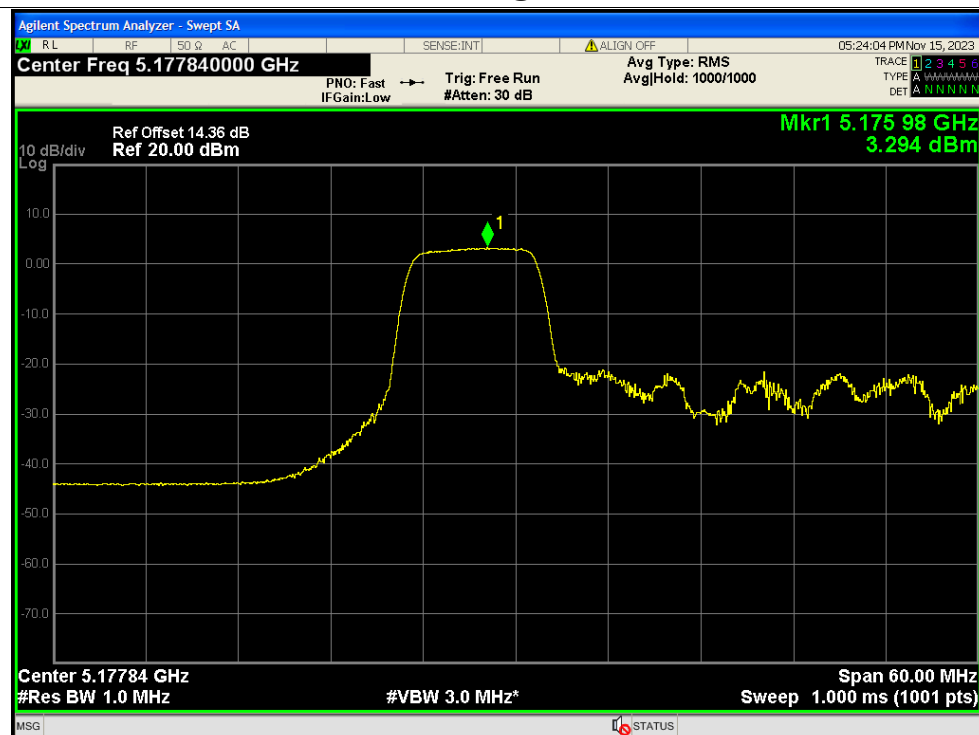




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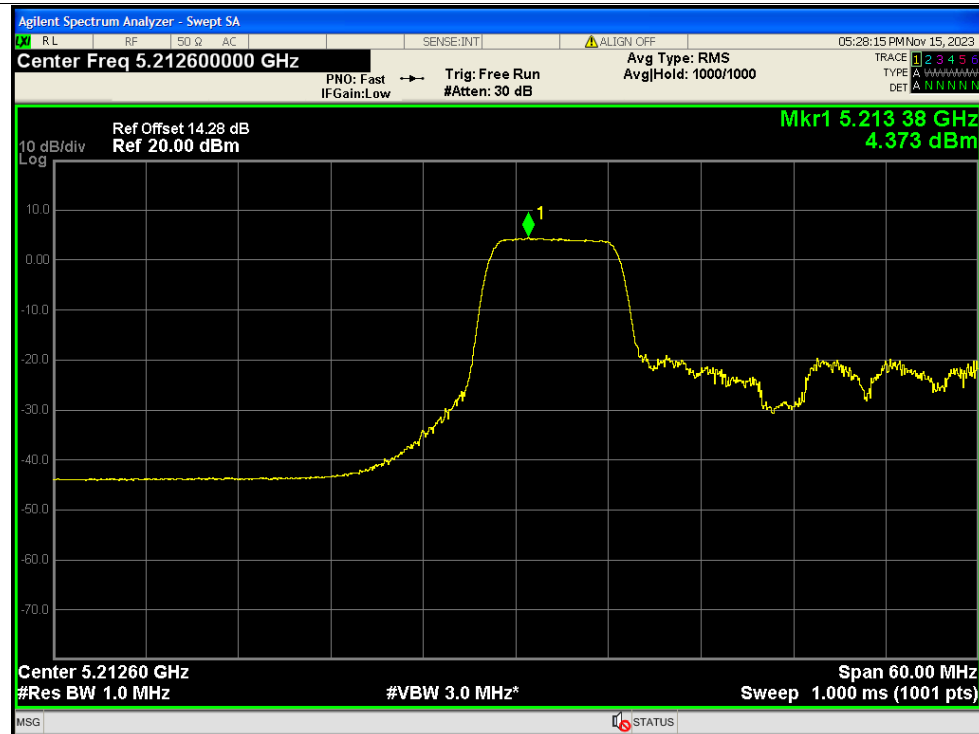


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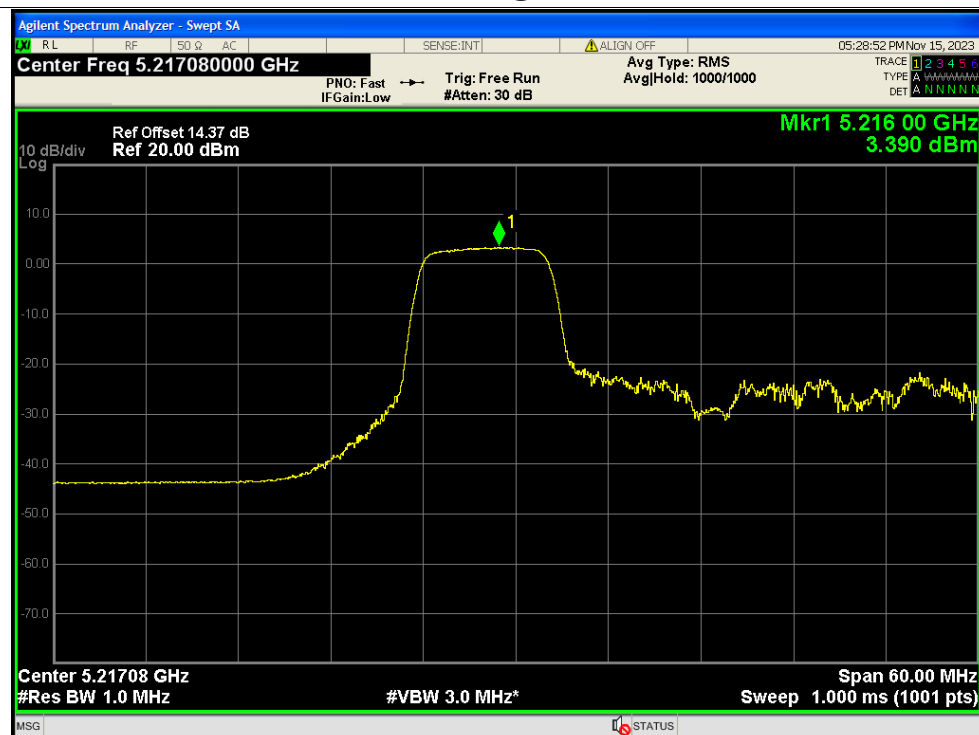




PSD NVNT ax40 106@53 5230MHz Ant1

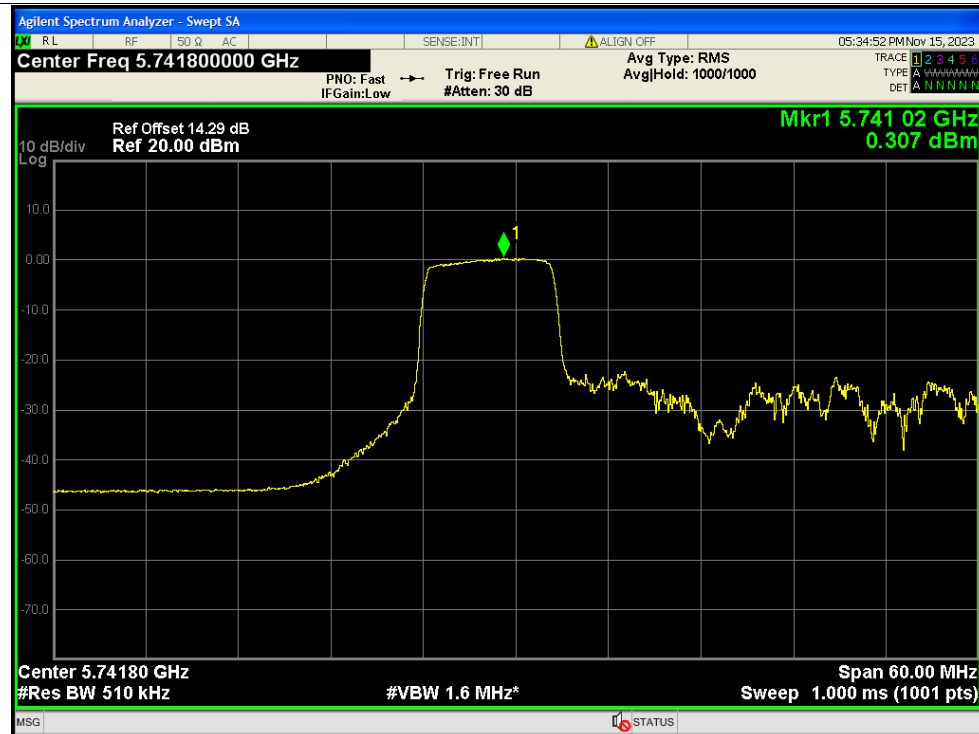


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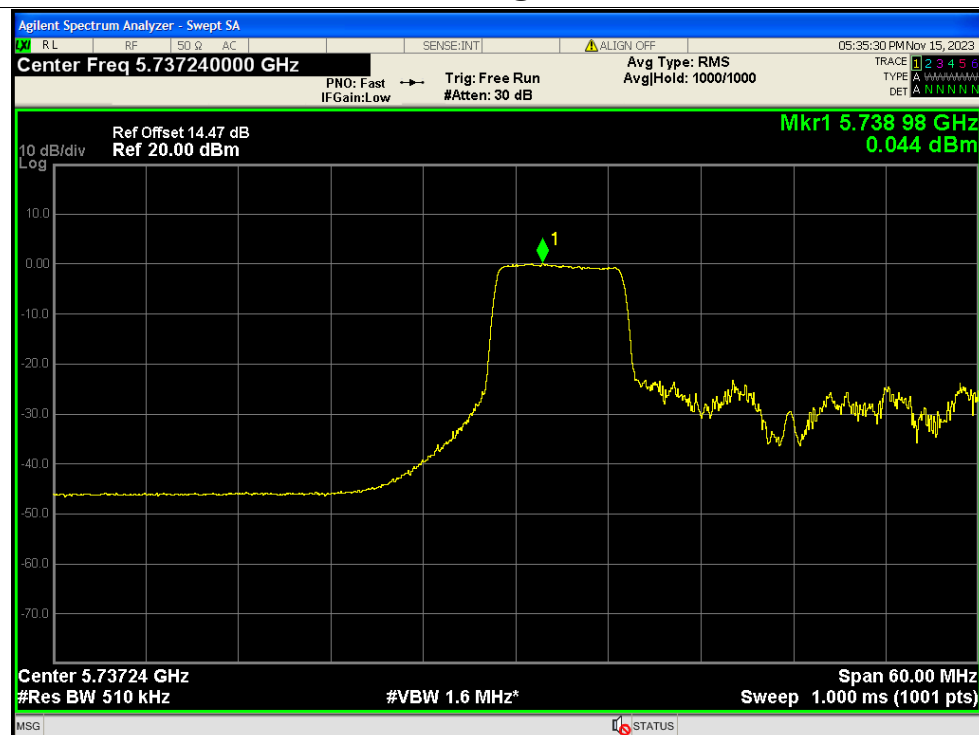




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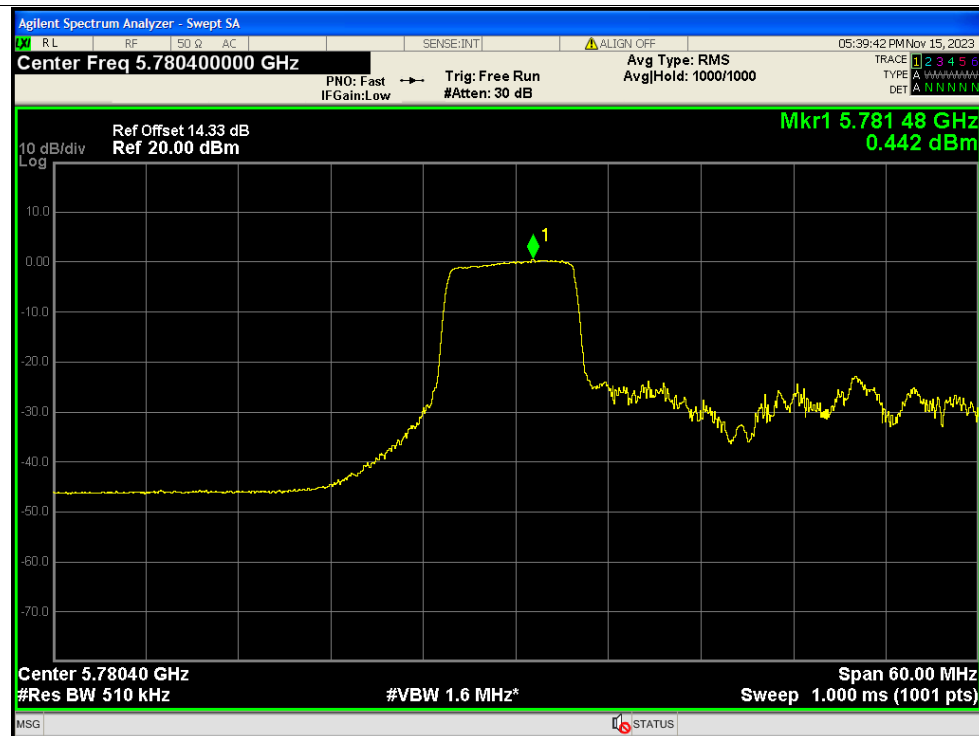


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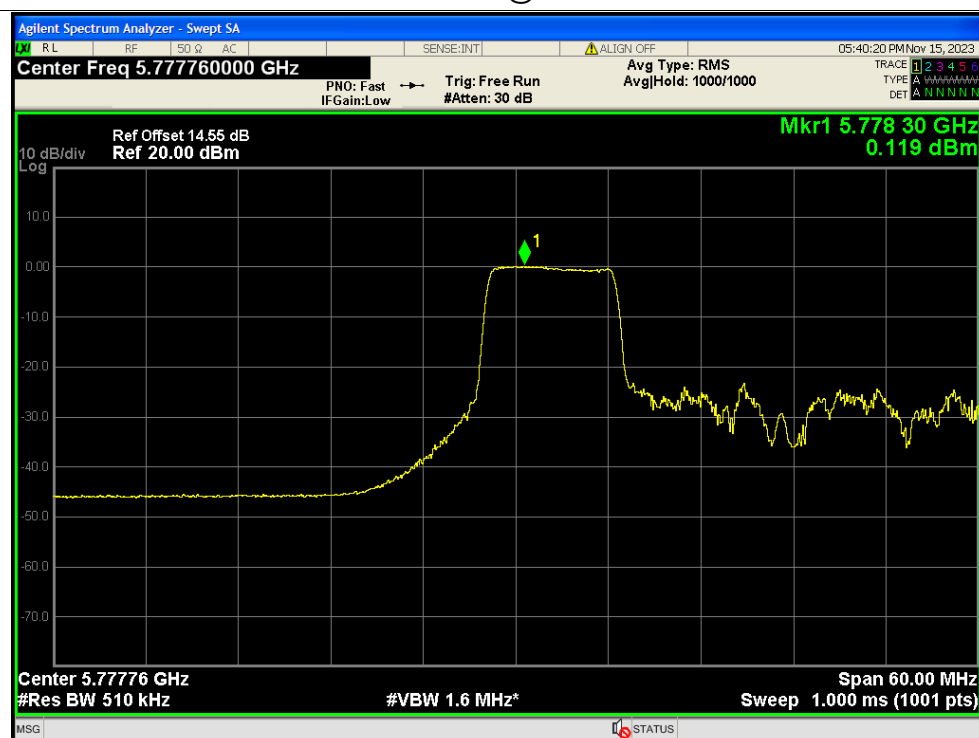




PSD NVNT ax40 106@53 5795MHz Ant1

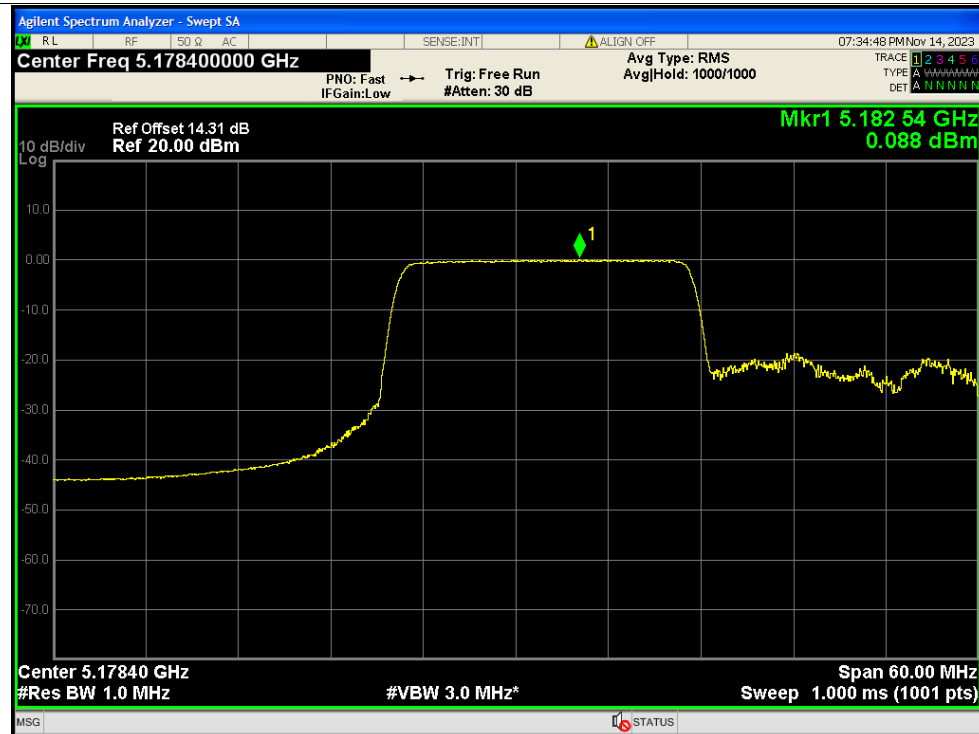


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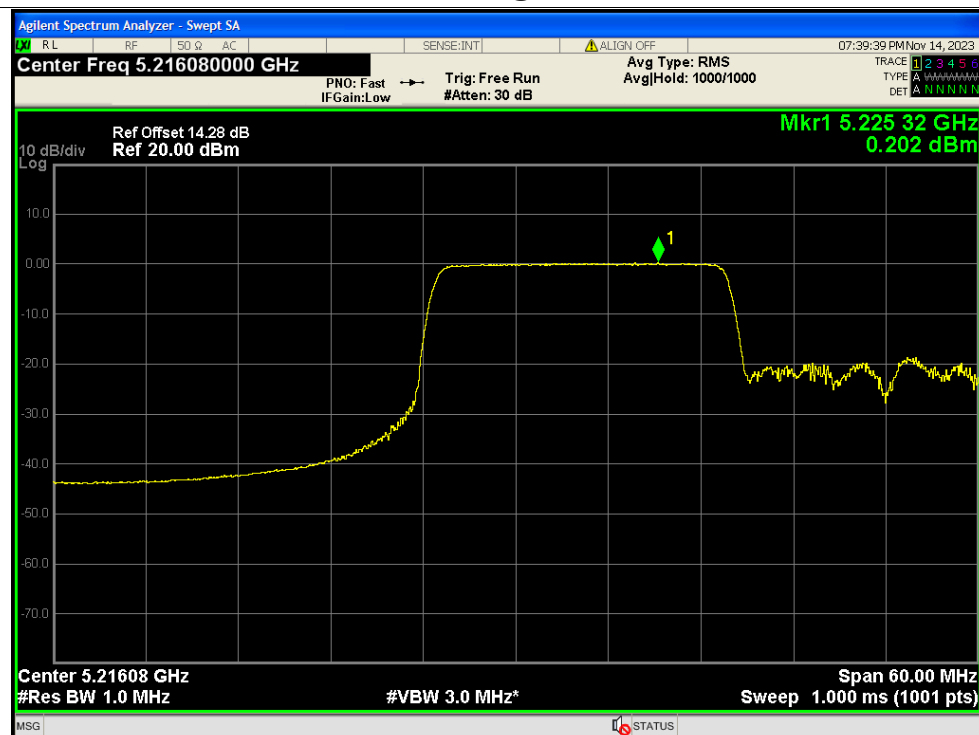




PSD NVNT ax40 242@61 5190MHz Ant1

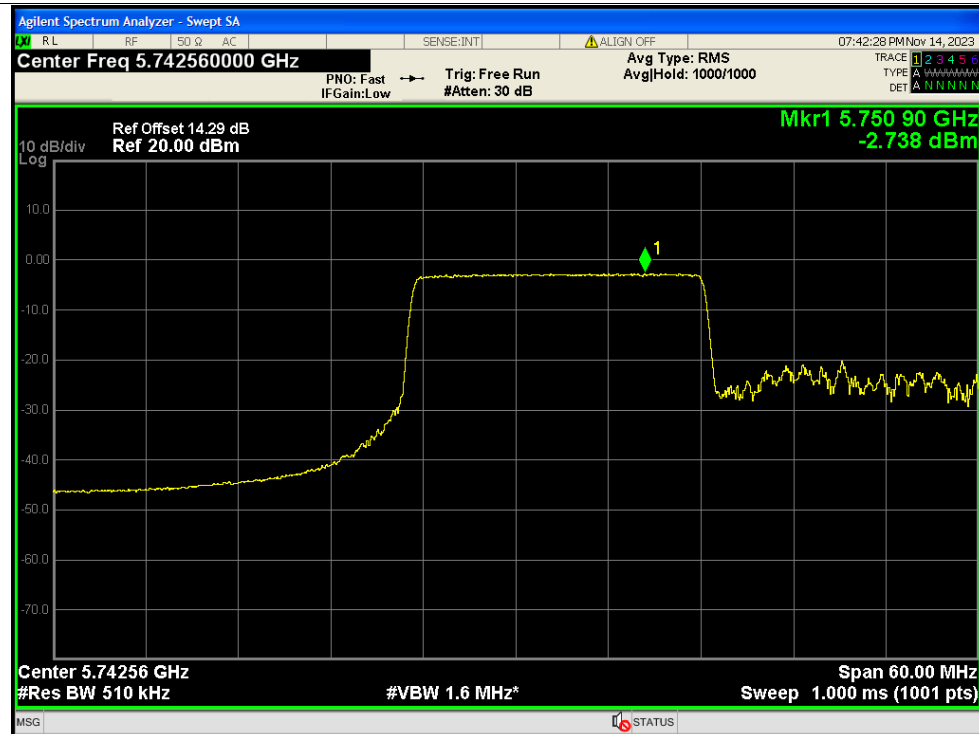


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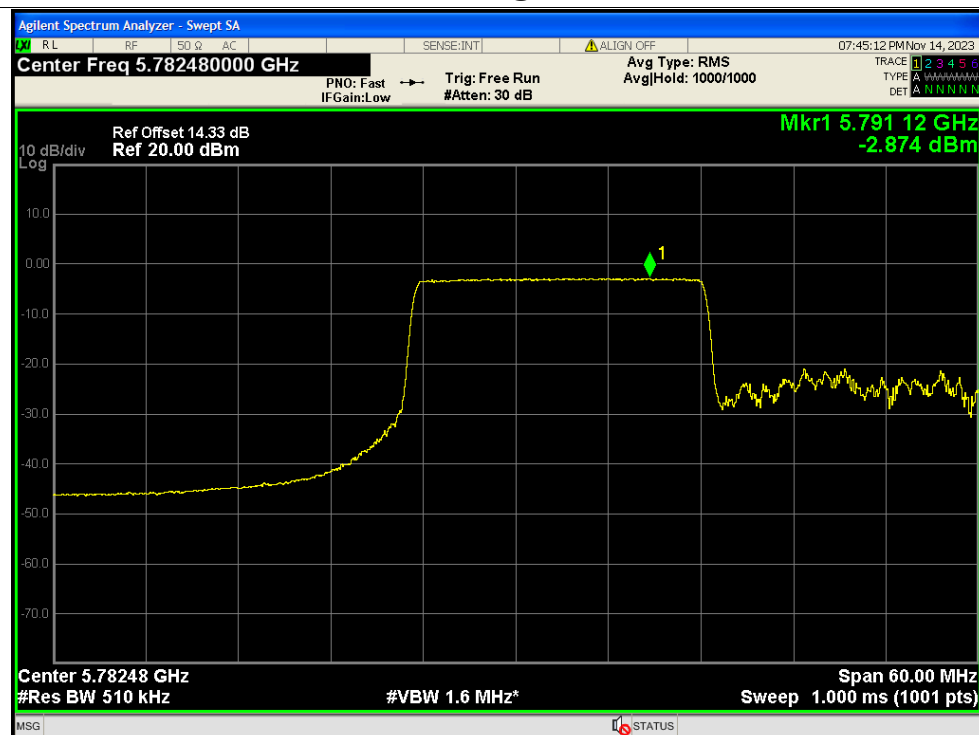




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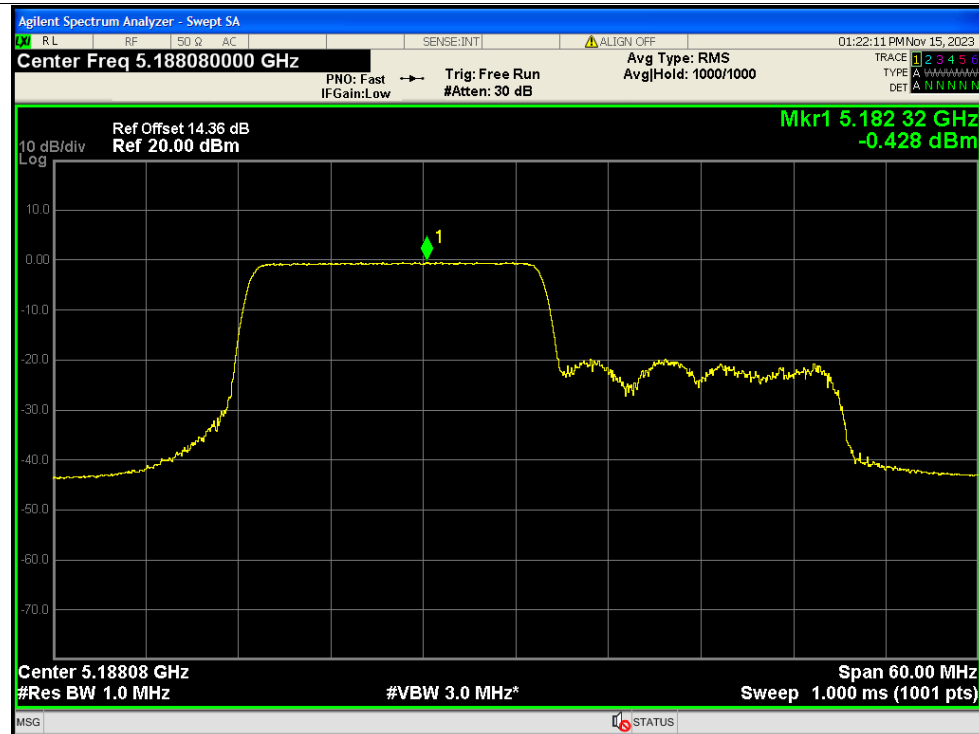


PSD NVNT ax40 242@61 5795MHz Ant1

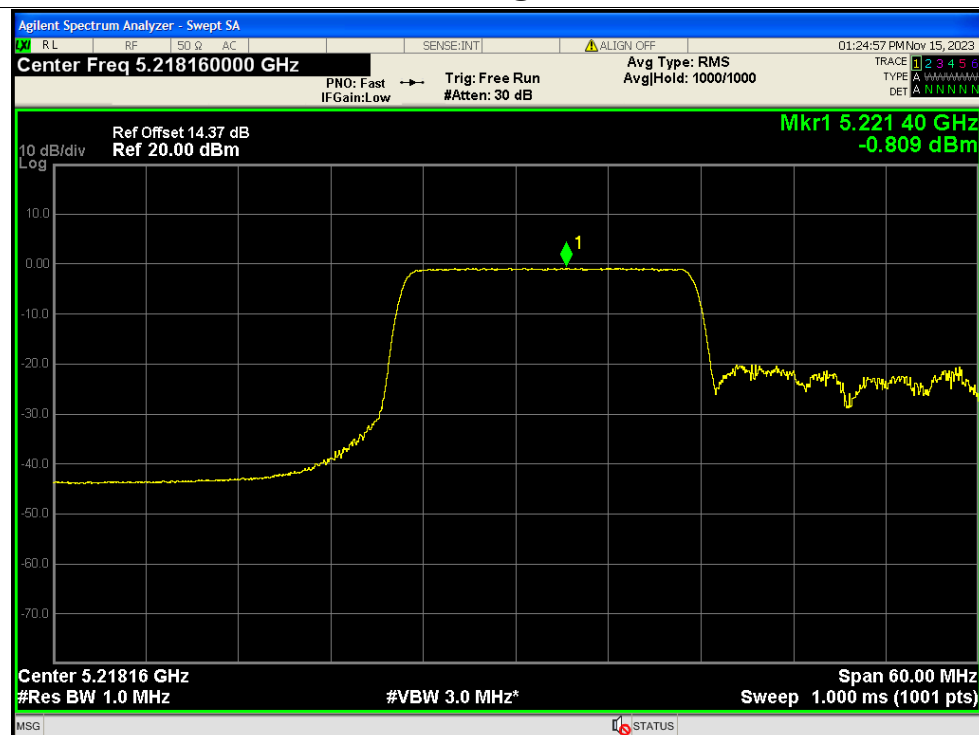




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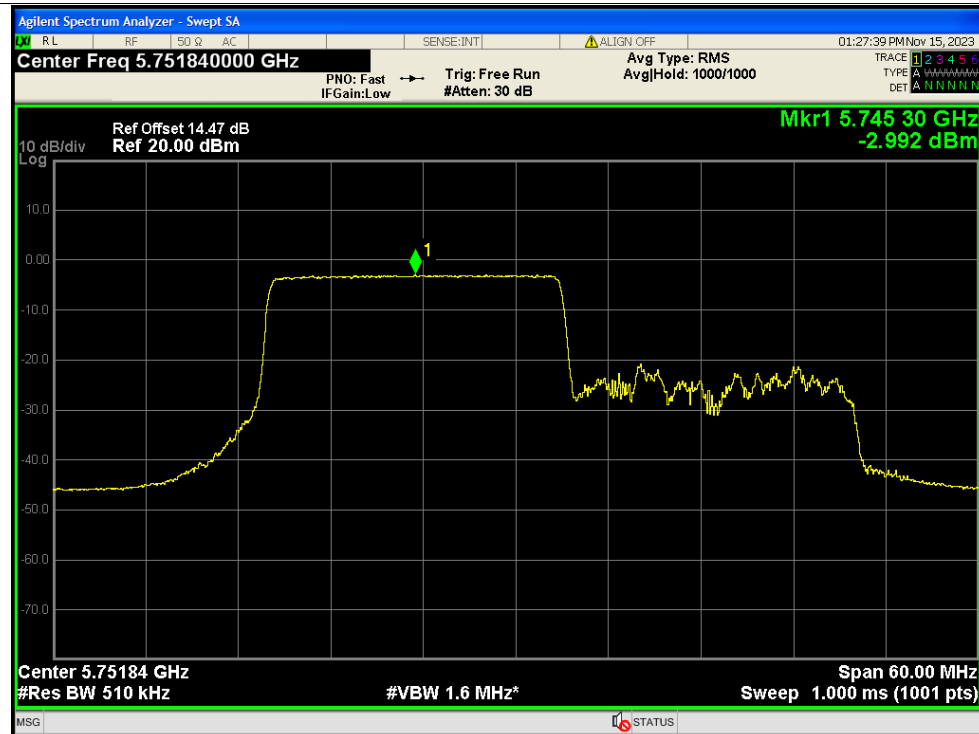


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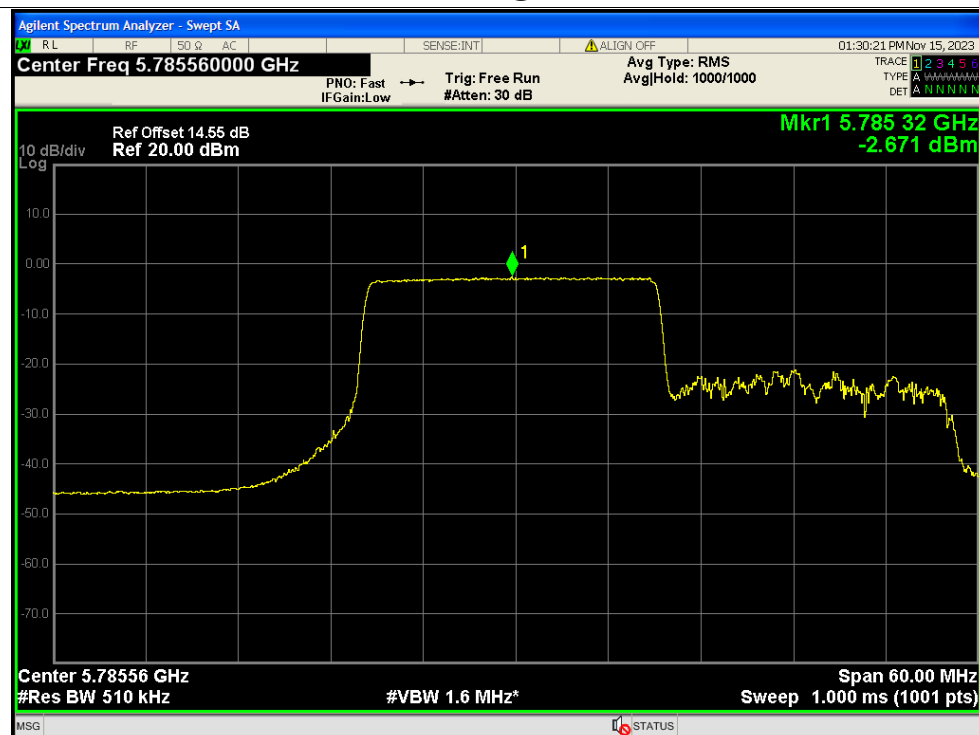




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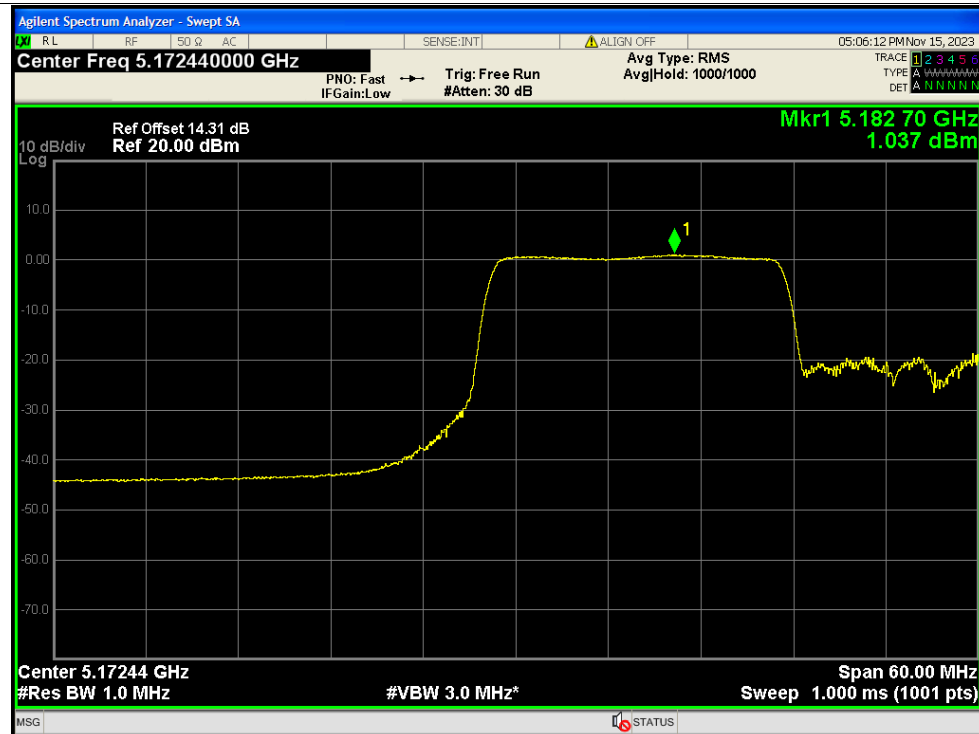


PSD NVNT ax40 242@61 5795MHz Ant2

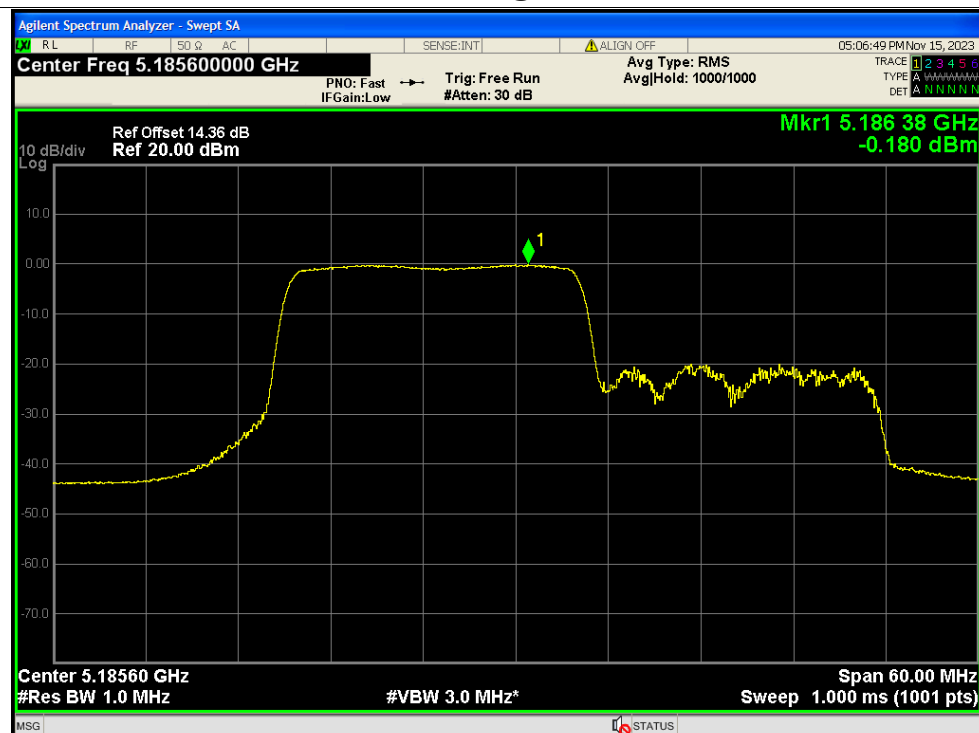




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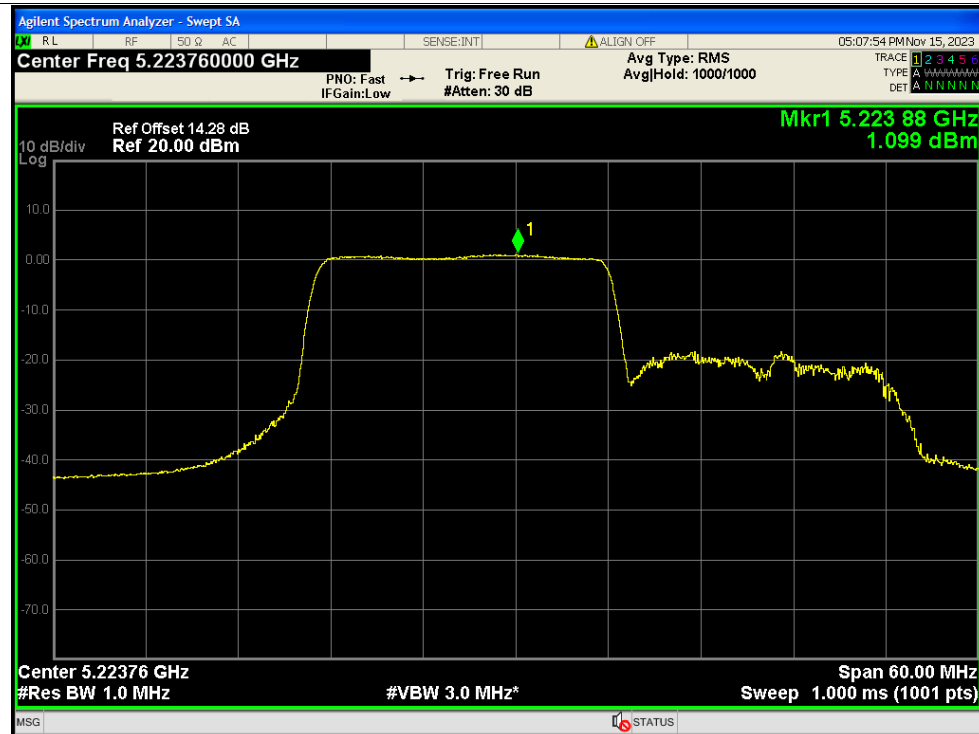


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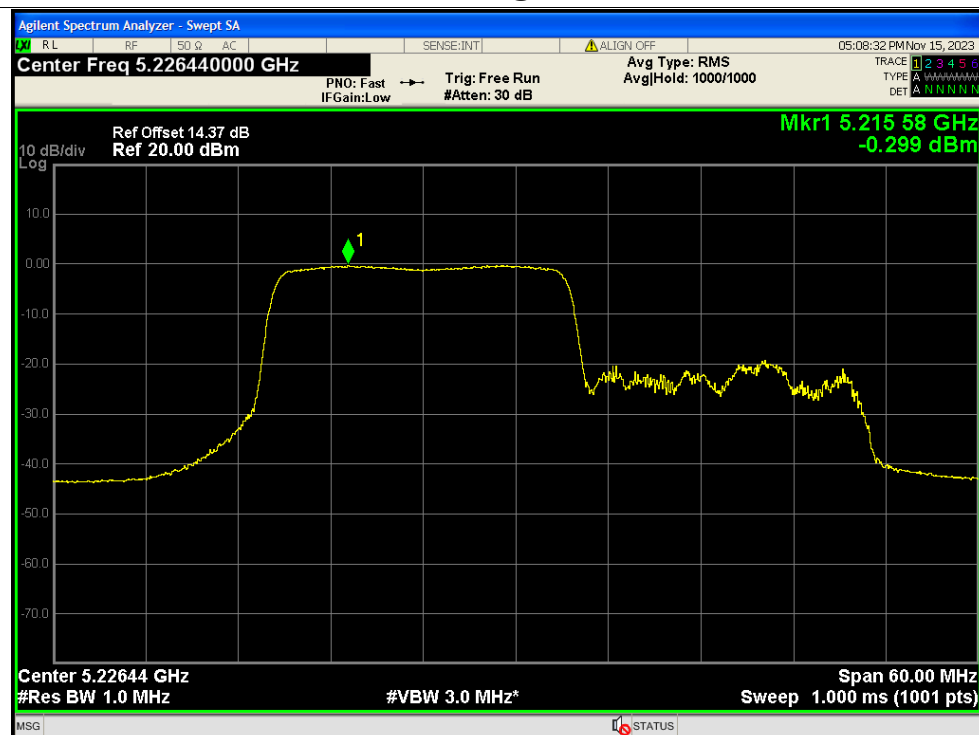




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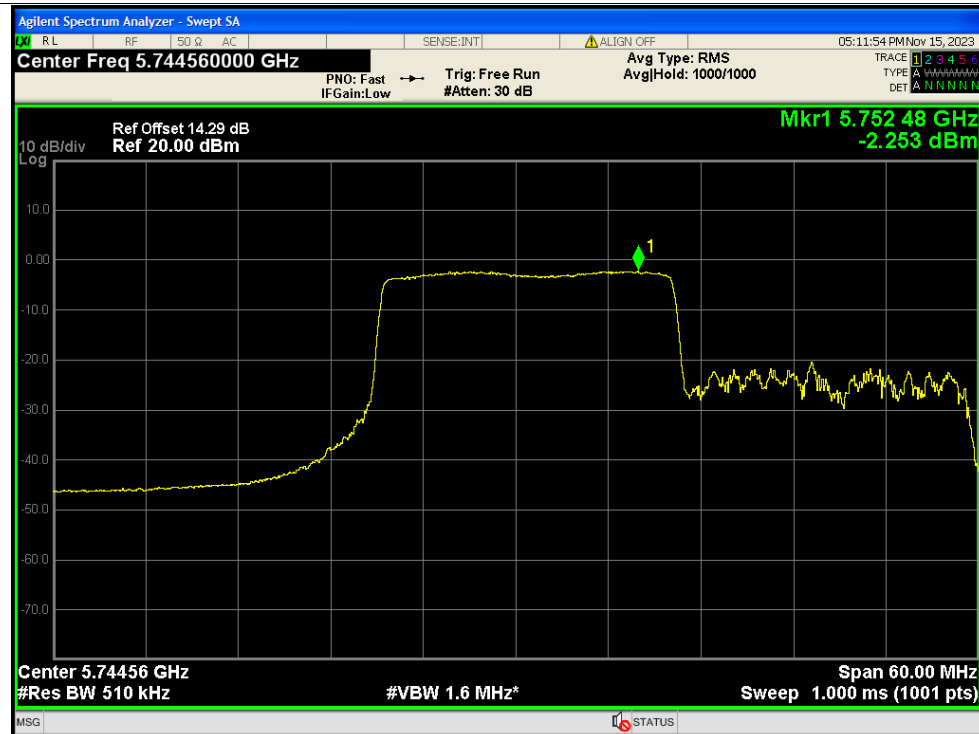


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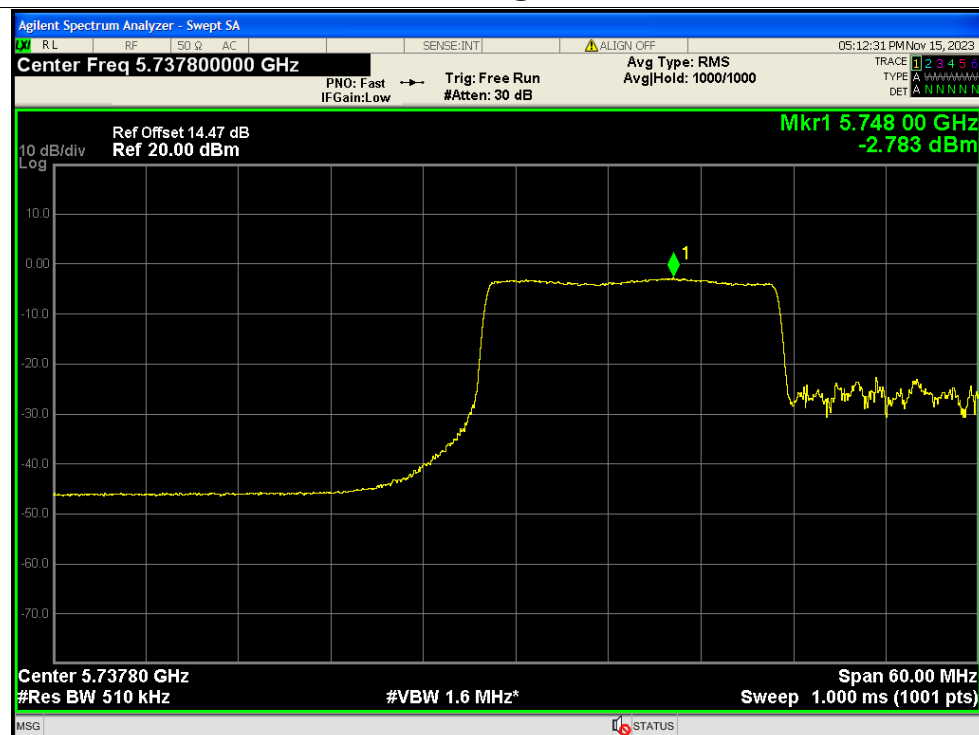




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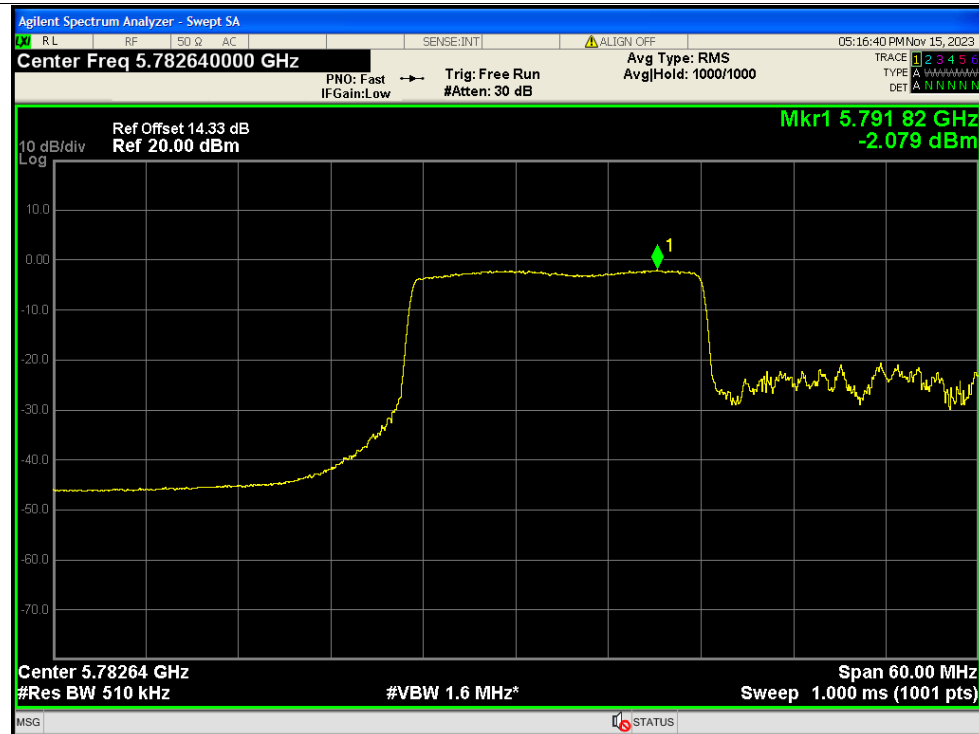


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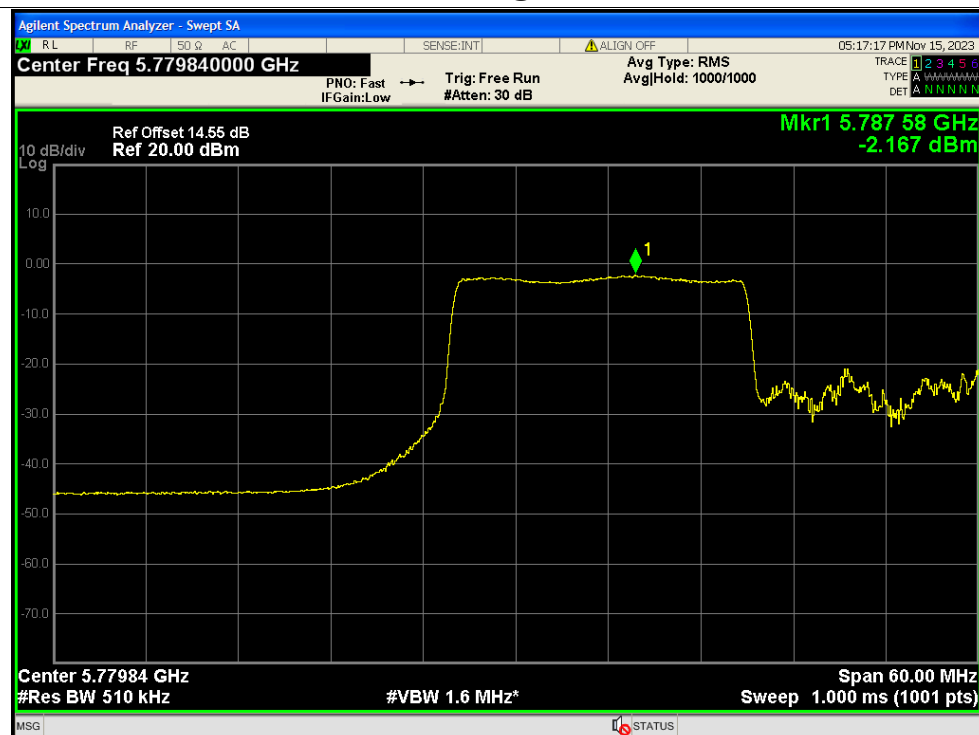




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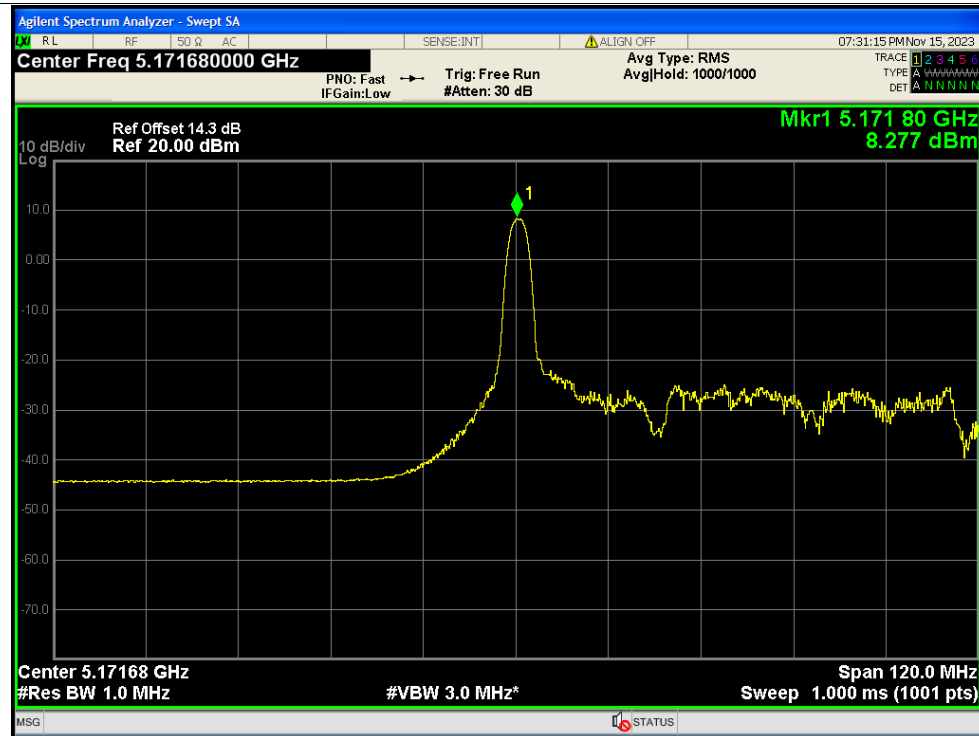


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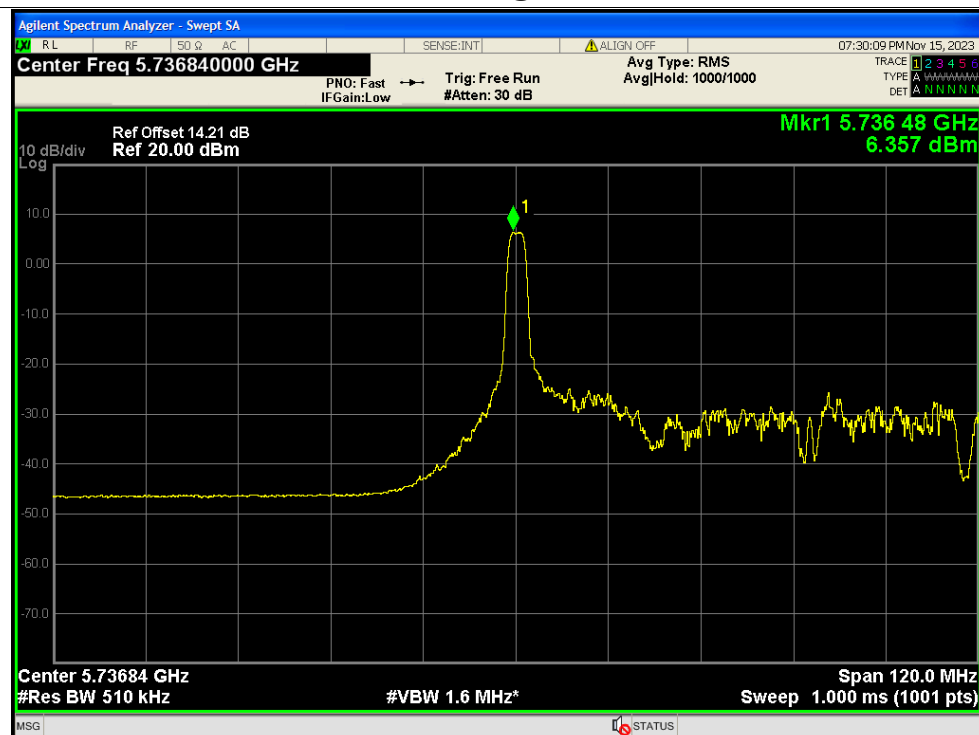




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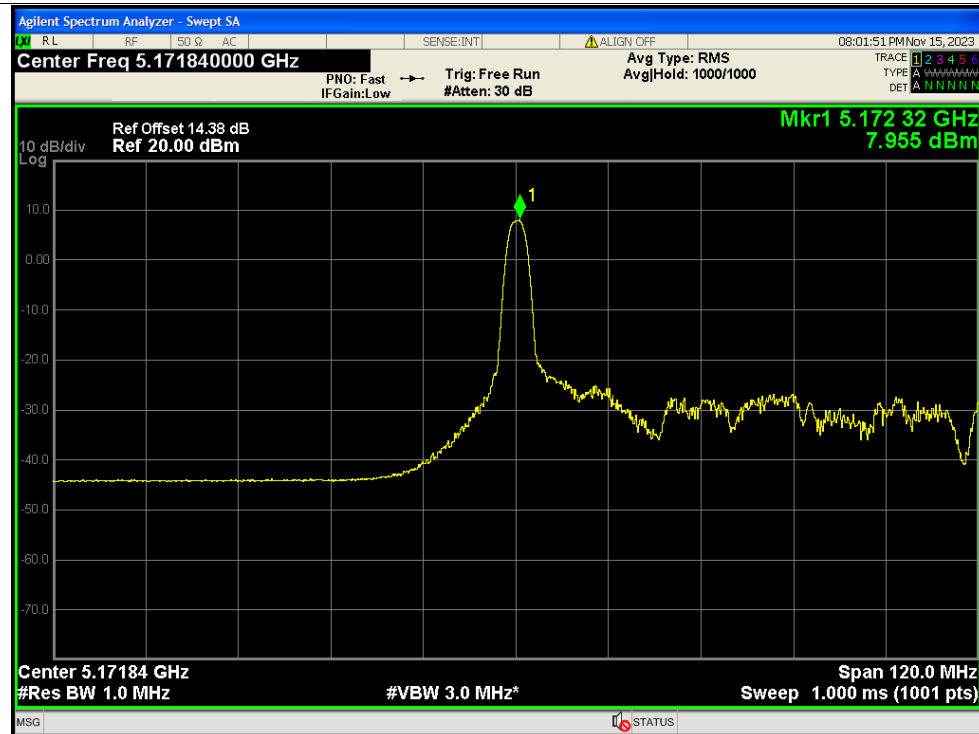


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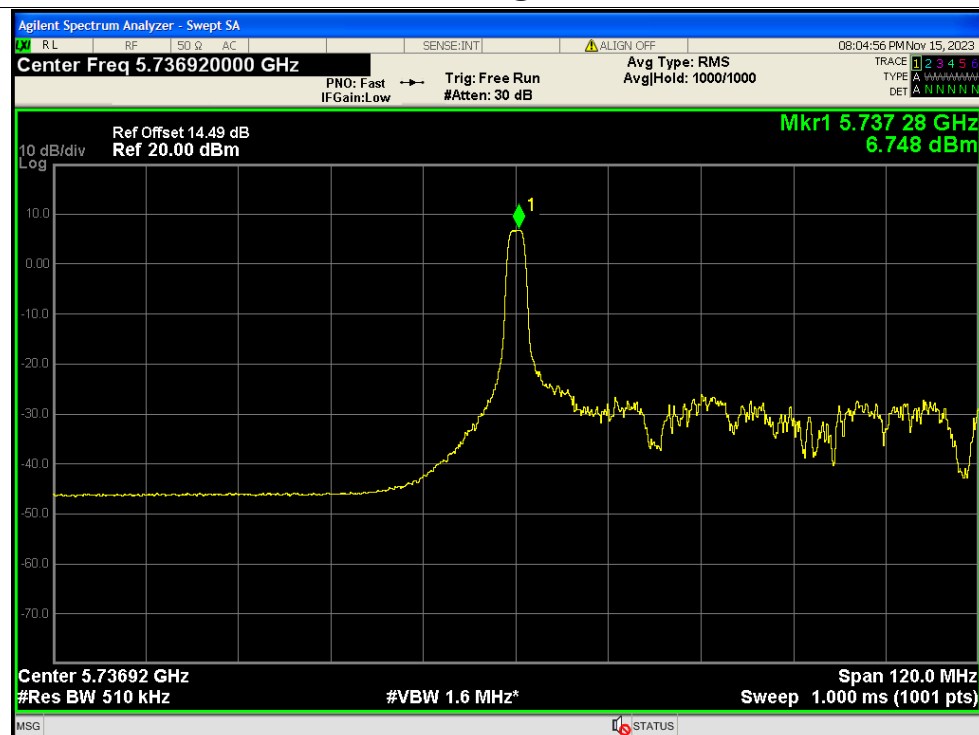




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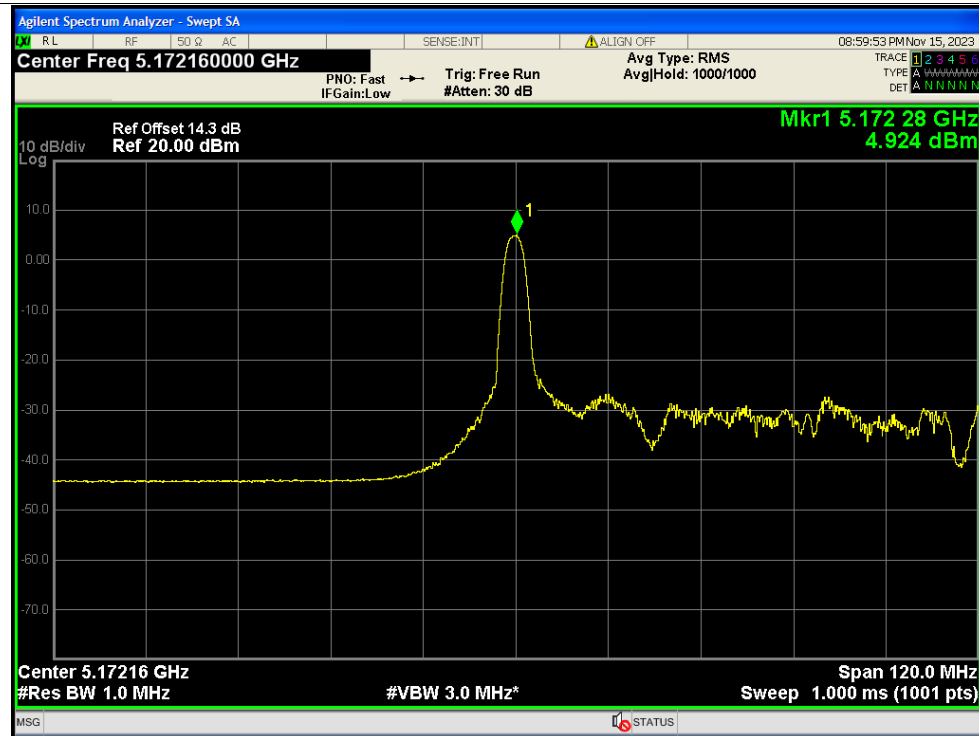


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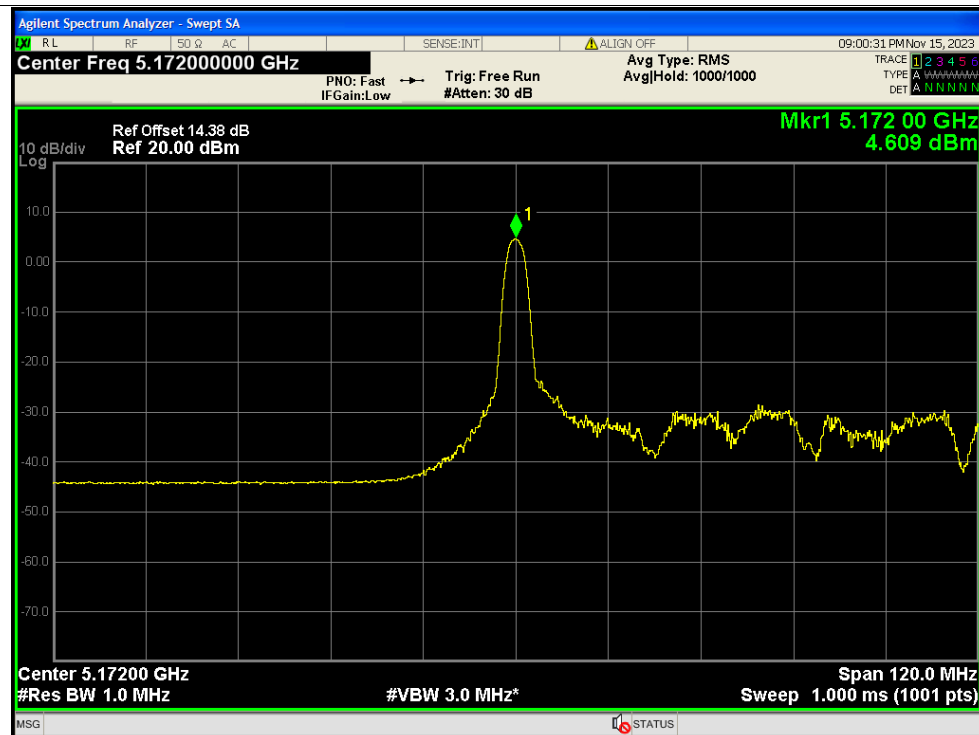




PSD NVNT ax80 26@0 5210MHz Ant1



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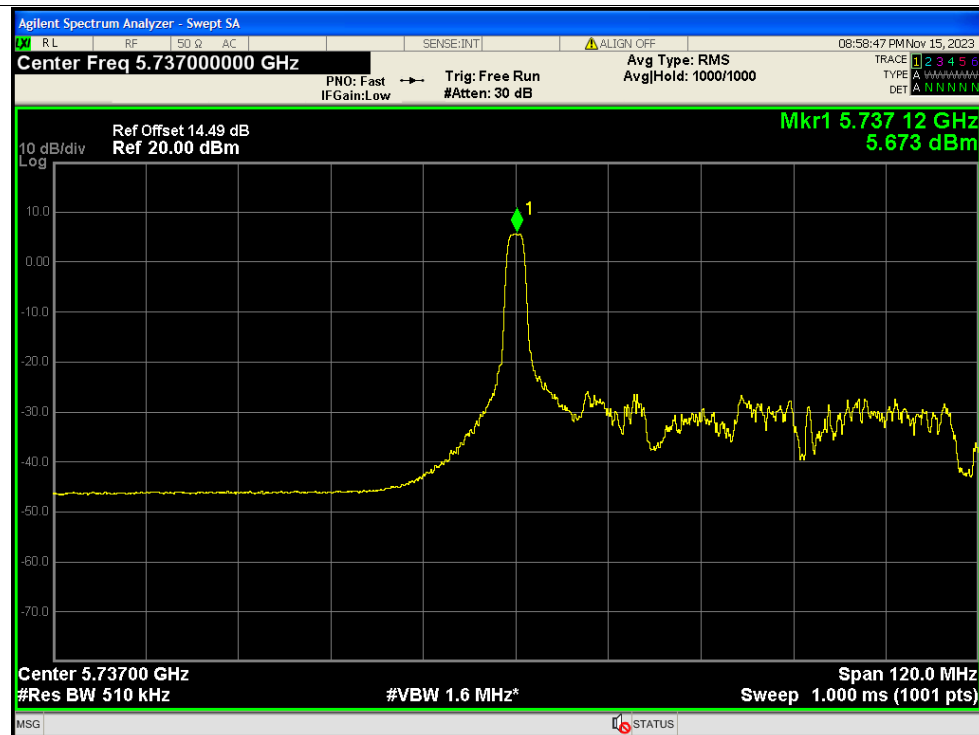




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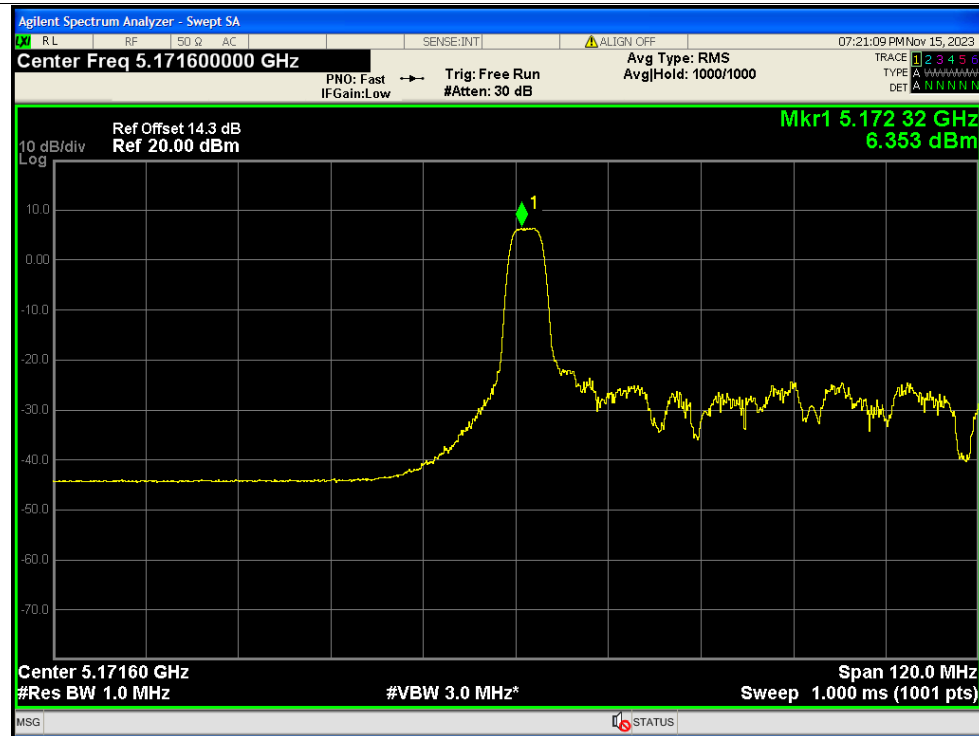


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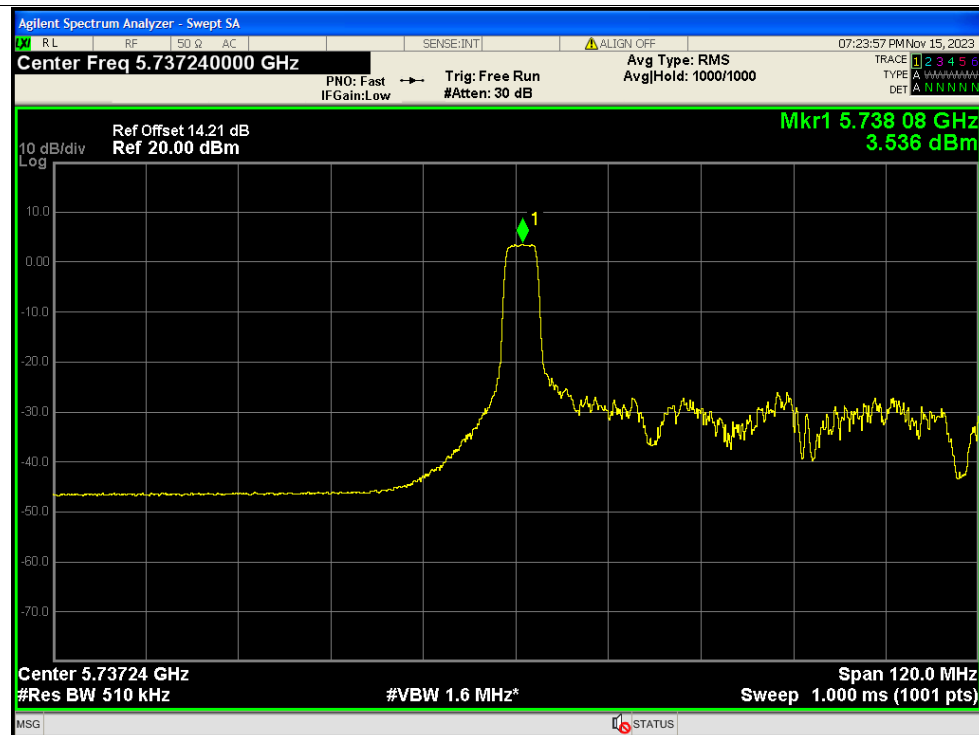




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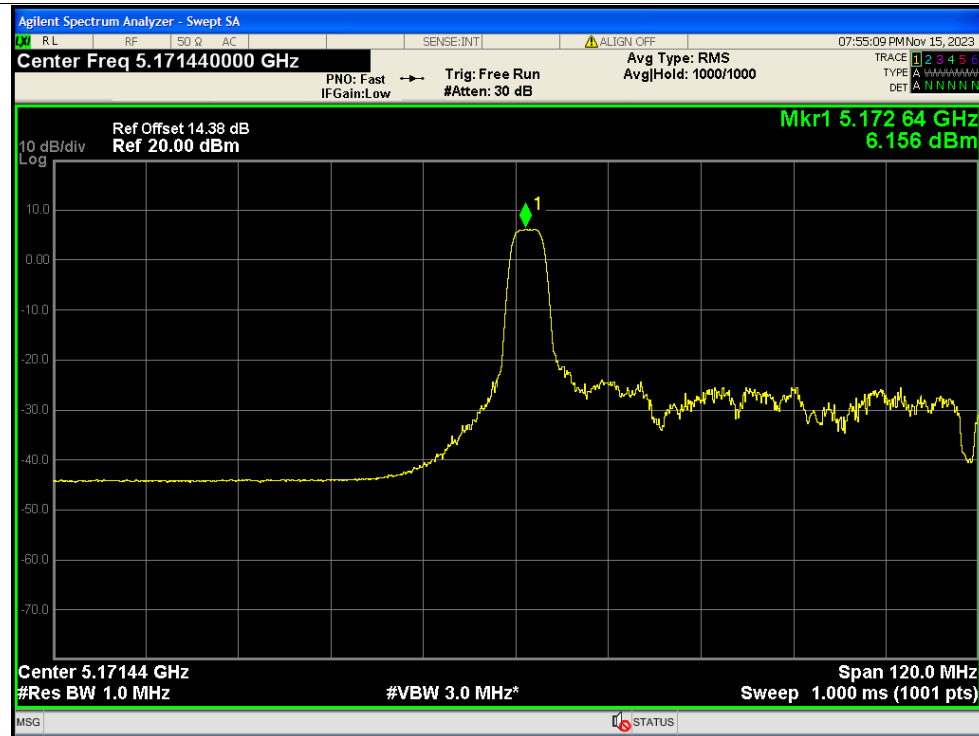


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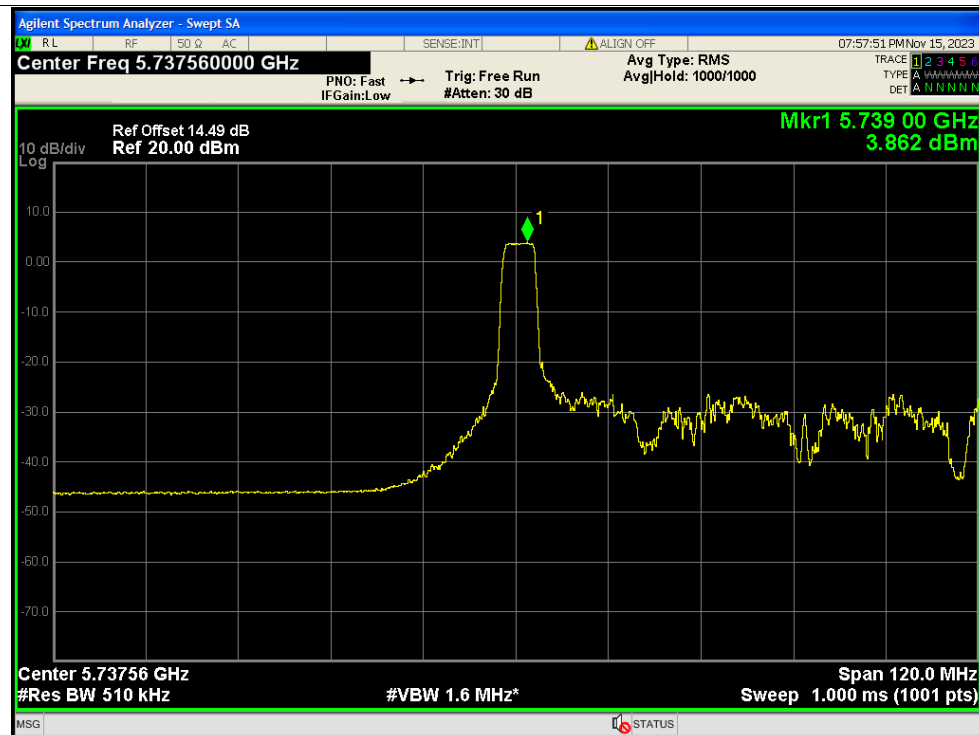




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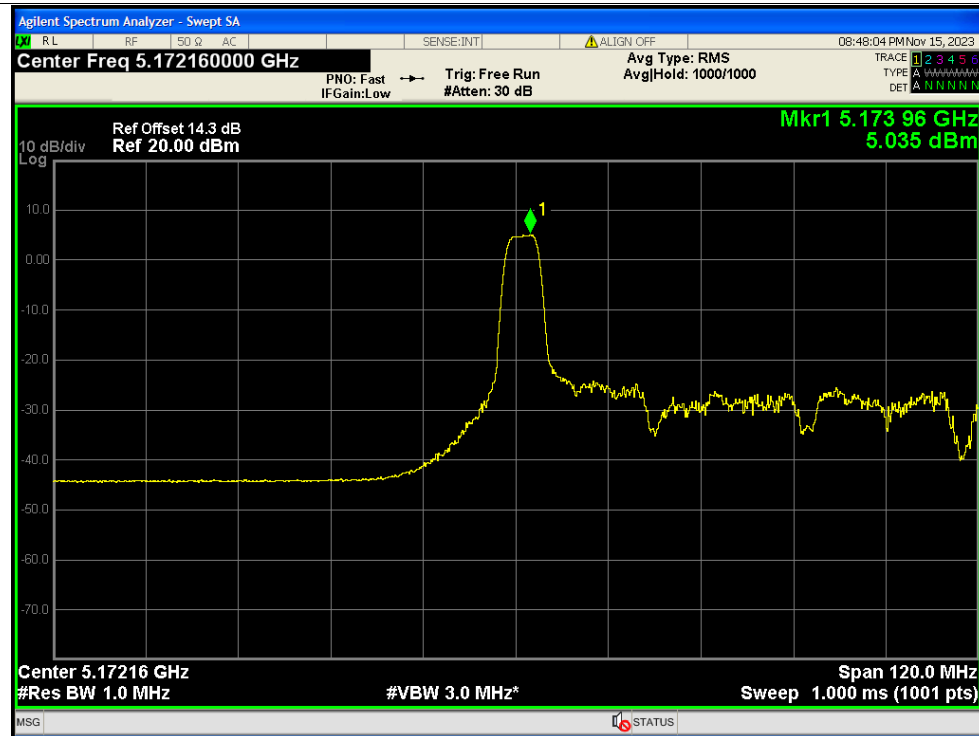


PSD NVNT ax80 52@37 5775MHz Ant2

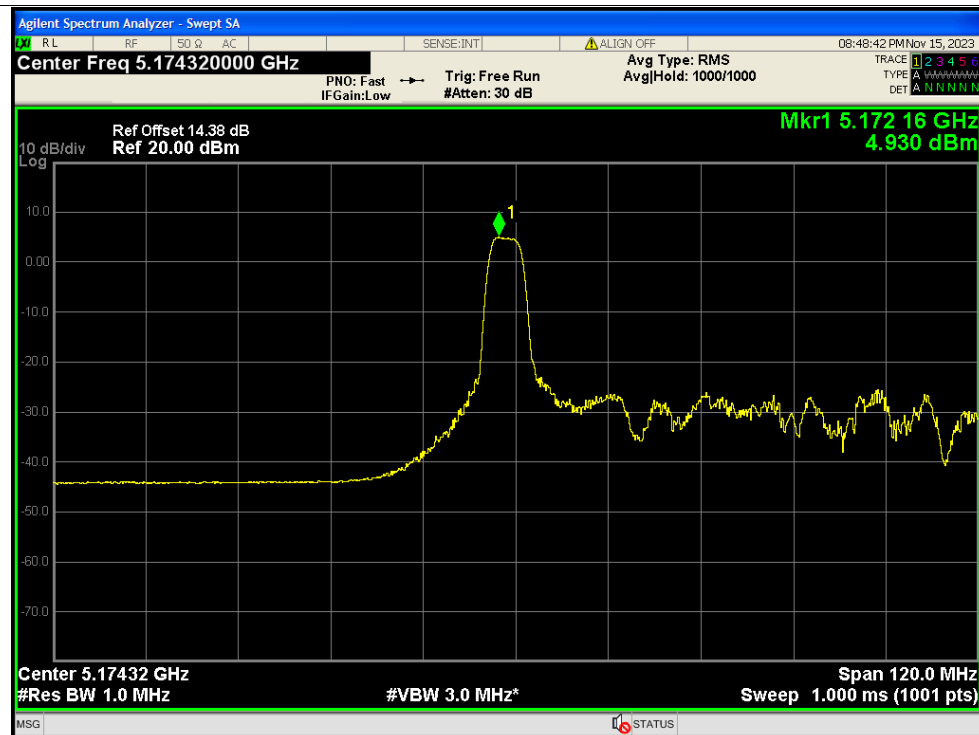




PSD NVNT ax80 52@37 5210MHz Ant1

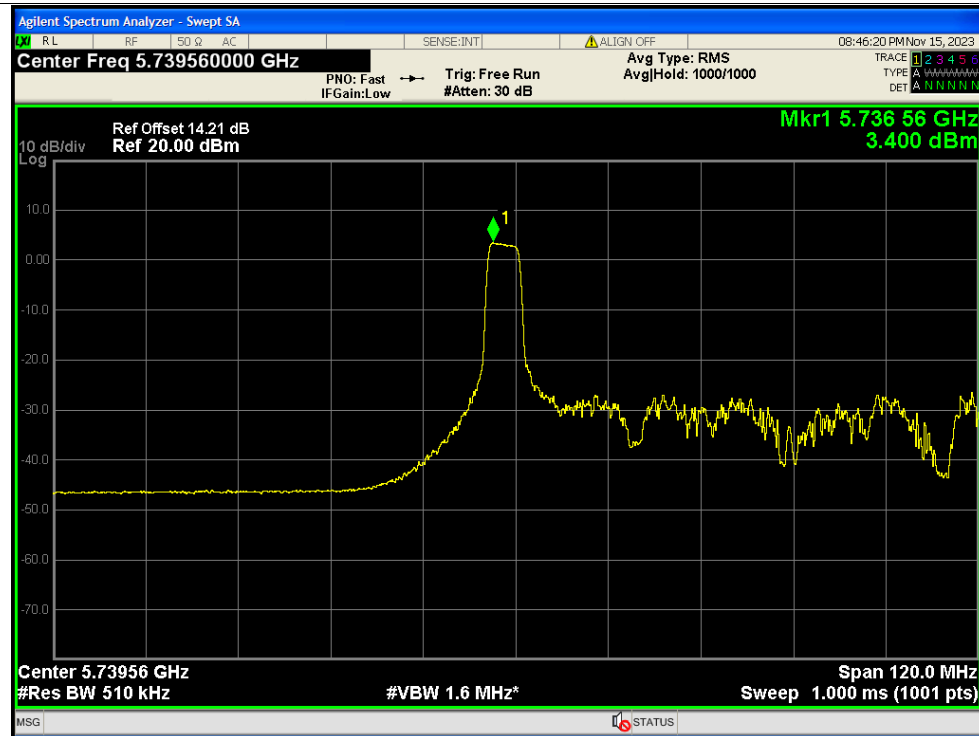


PSD NVNT ax80 52@37 5210MHz Ant2

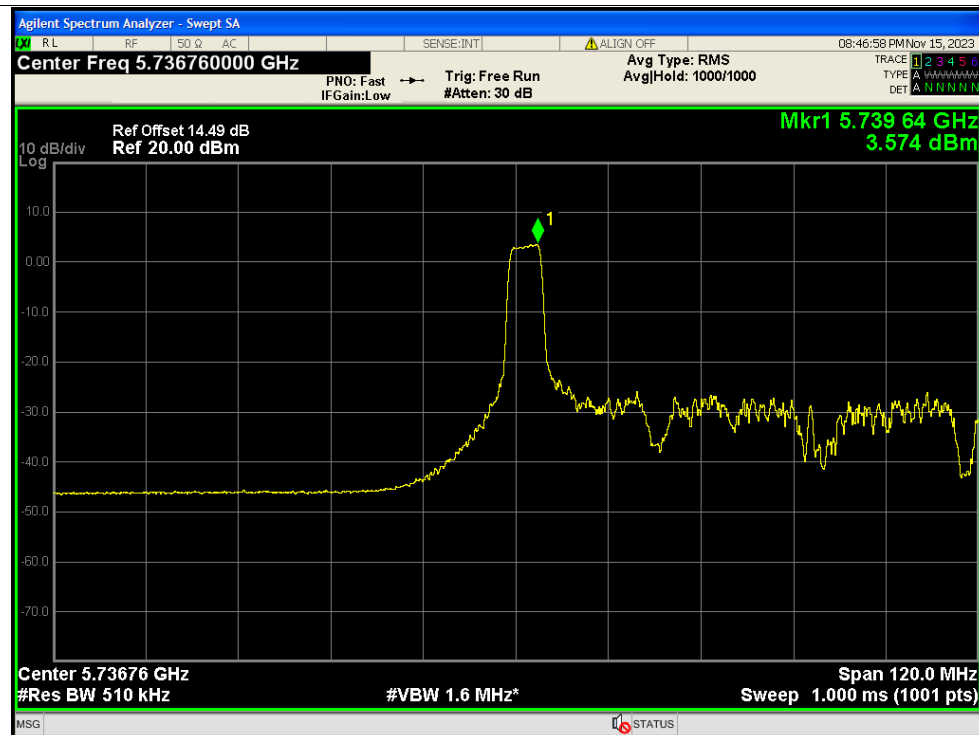




PSD NVNT ax80 52@37 5775MHz Ant1

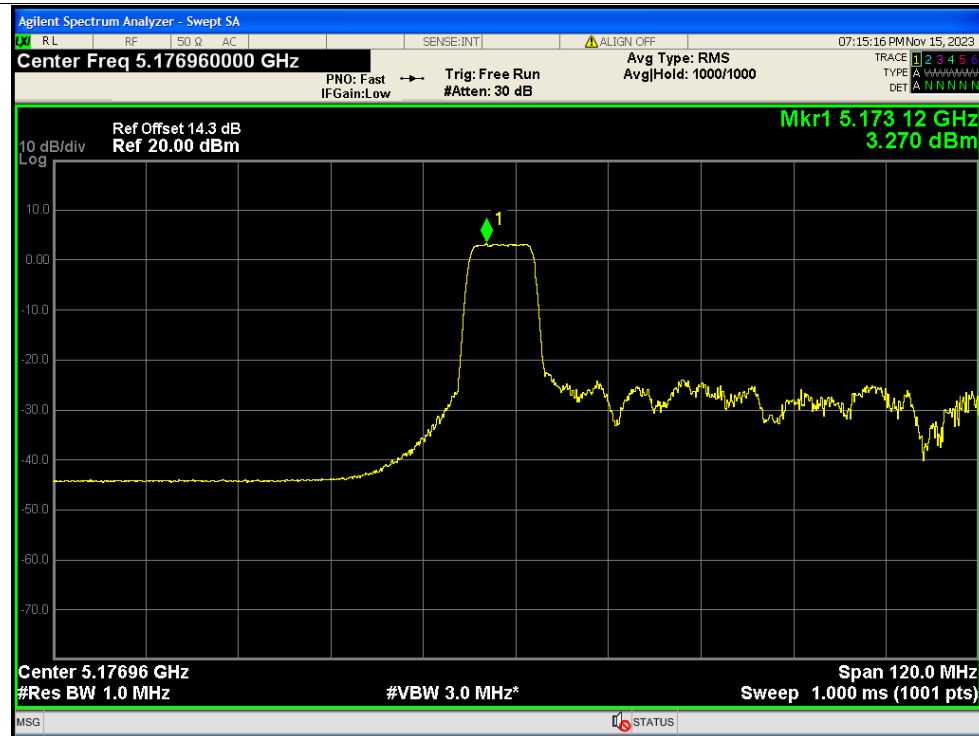


PSD NVNT ax80 52@37 5775MHz Ant2

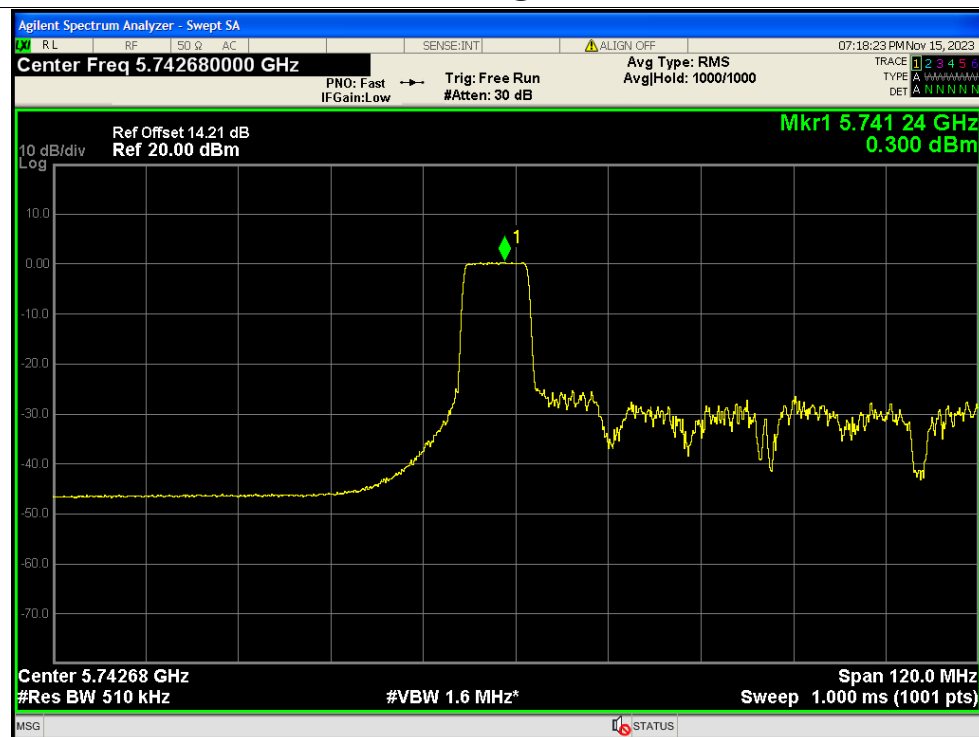




PSD NVNT ax80 106@53 5210MHz Ant1

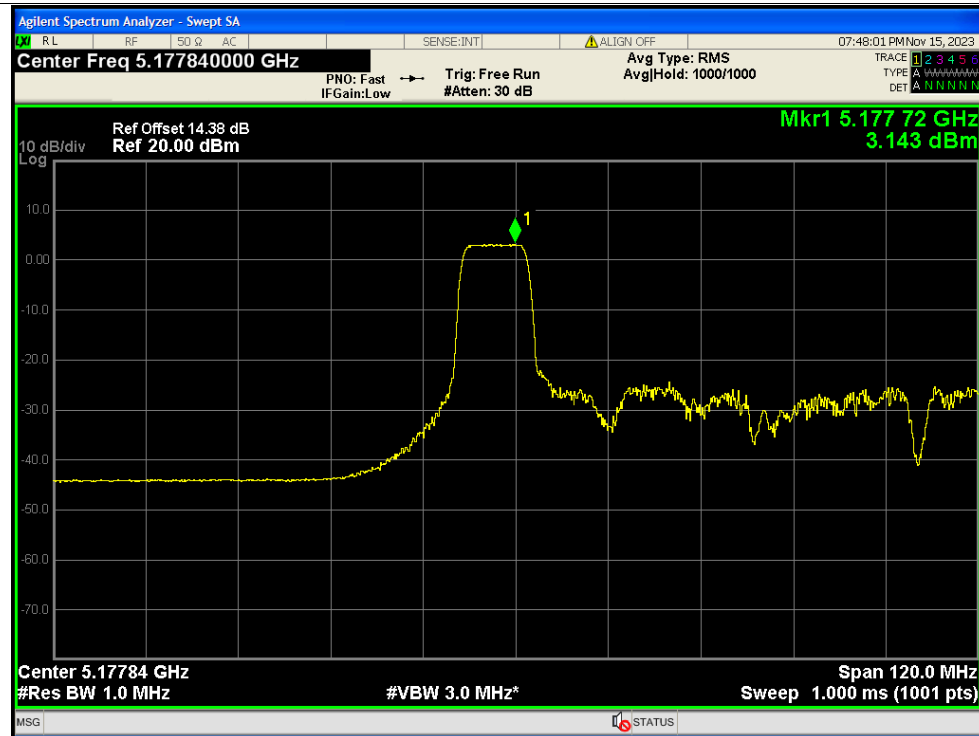


PSD NVNT ax80 106@53 5775MHz Ant1

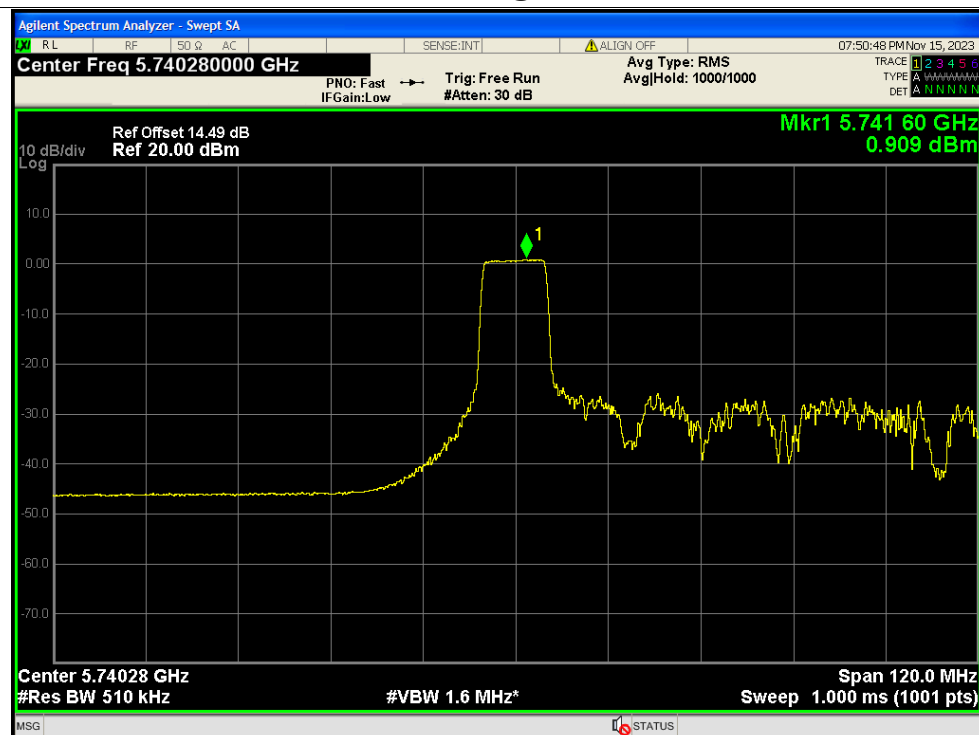




PSD NVNT ax80 106@53 5210MHz Ant2

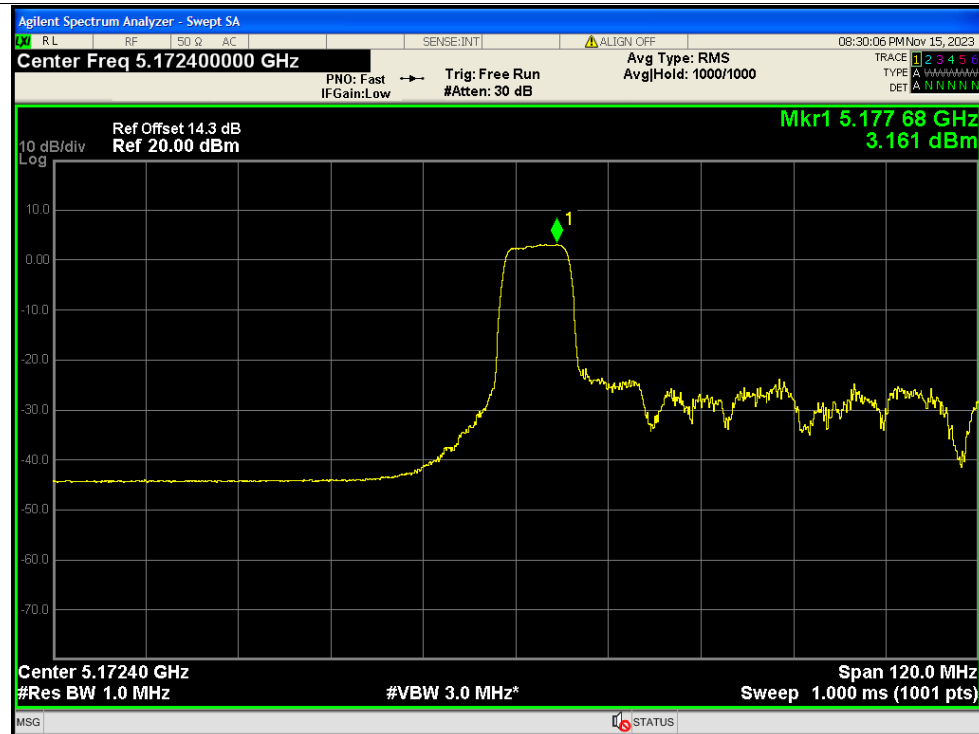


PSD NVNT ax80 106@53 5775MHz Ant2

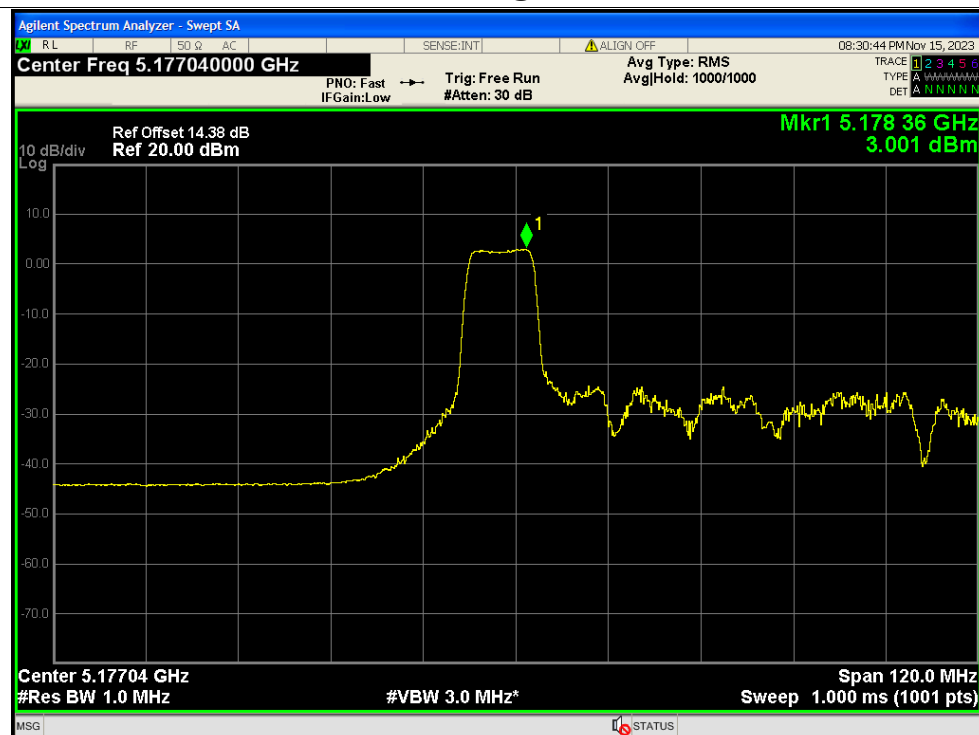




PSD NVNT ax80 106@53 5210MHz Ant1

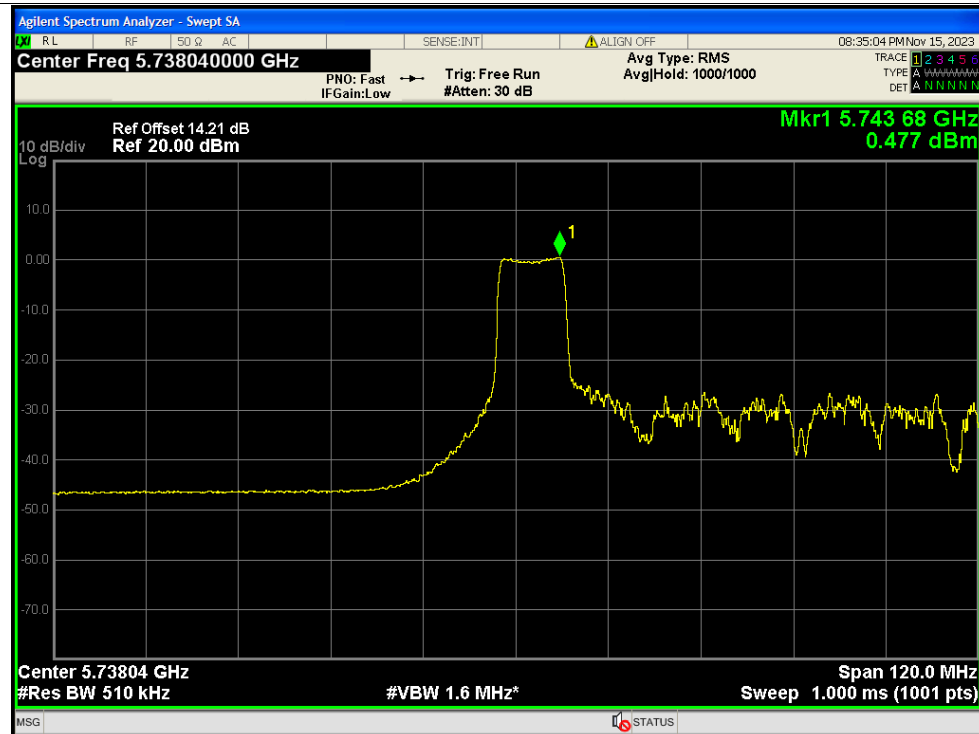


PSD NVNT ax80 106@53 5210MHz Ant2

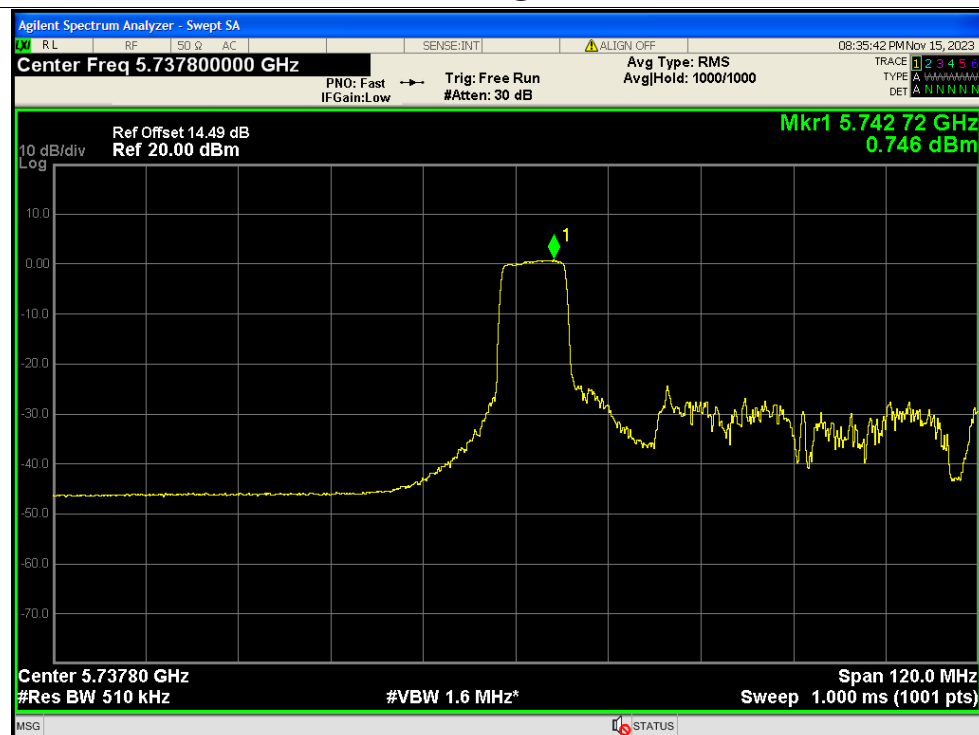




PSD NVNT ax80 106@53 5775MHz Ant1

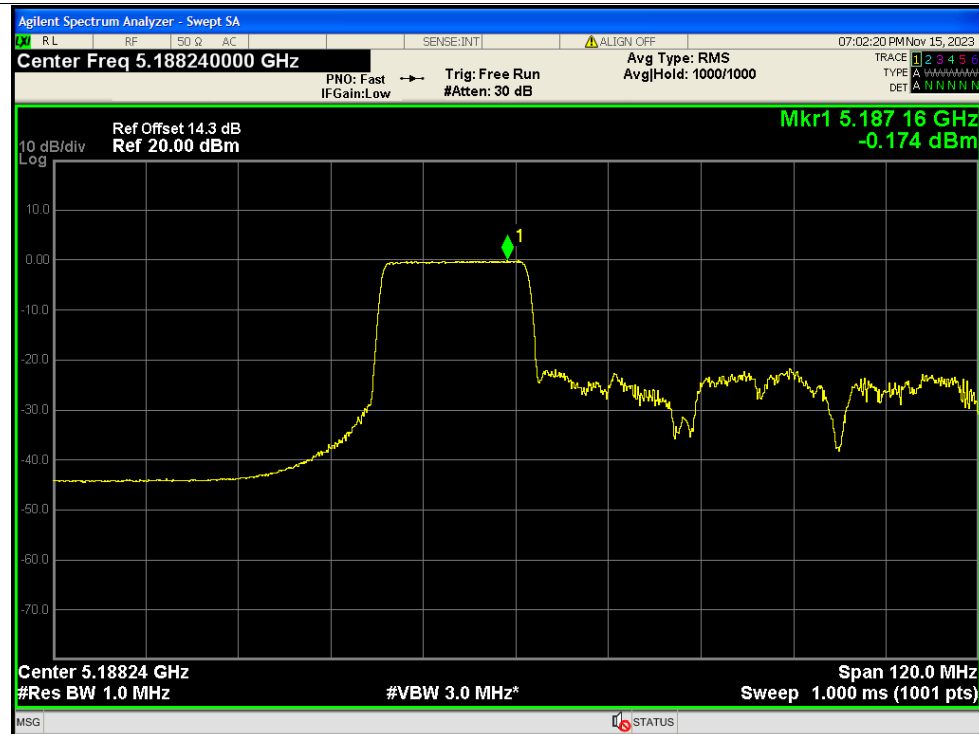


PSD NVNT ax80 106@53 5775MHz Ant2

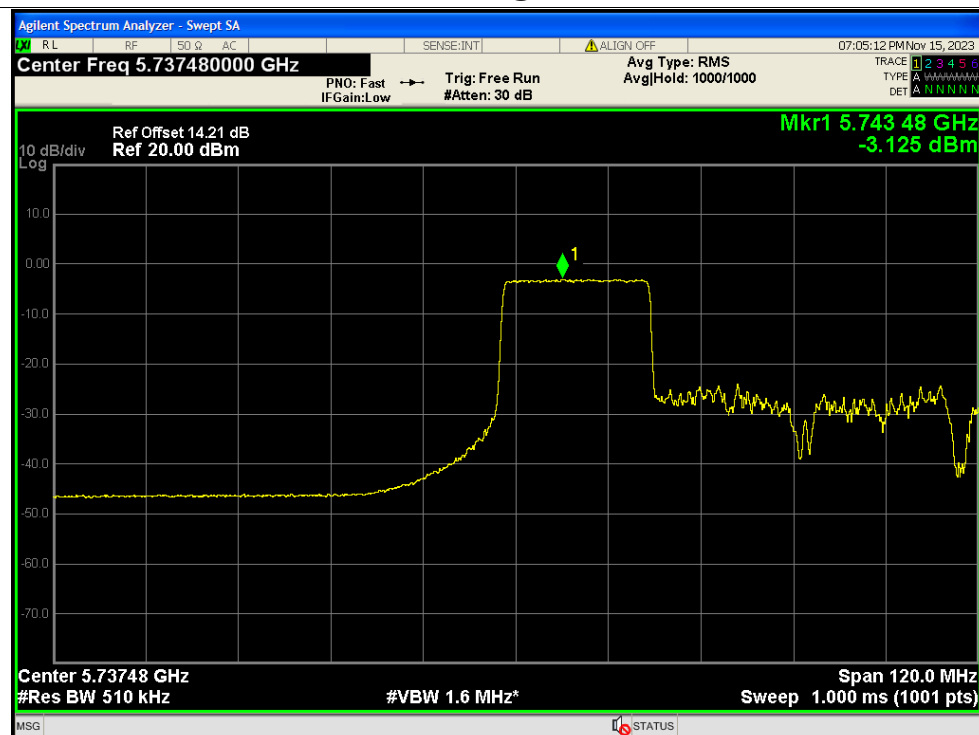




PSD NVNT ax80 242@61 5210MHz Ant1

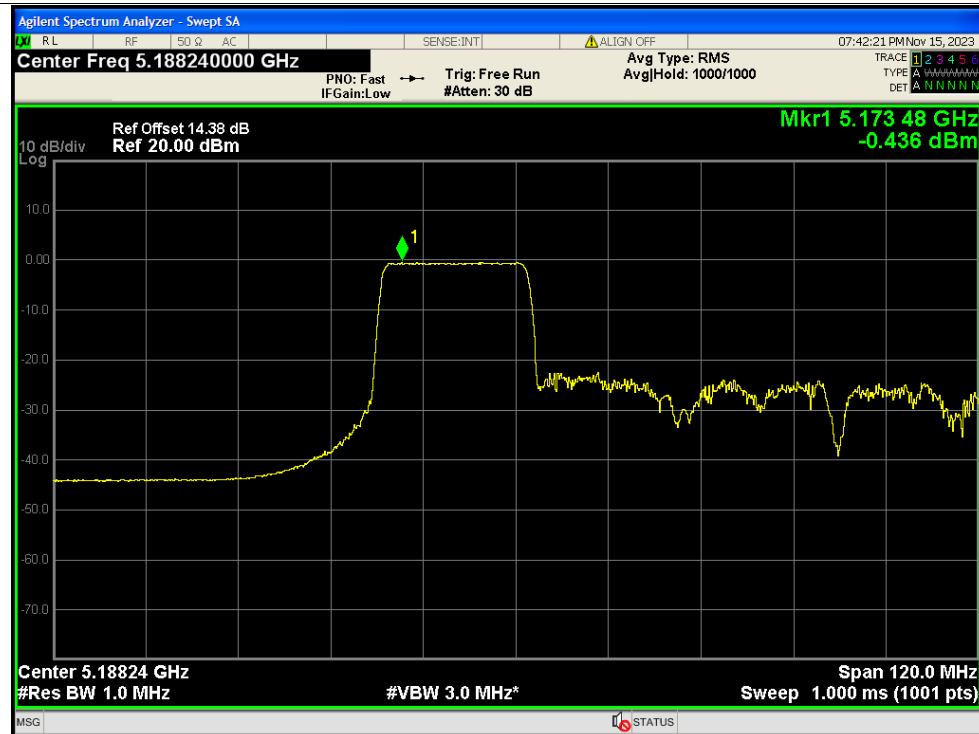


PSD NVNT ax80 242@61 5775MHz Ant1

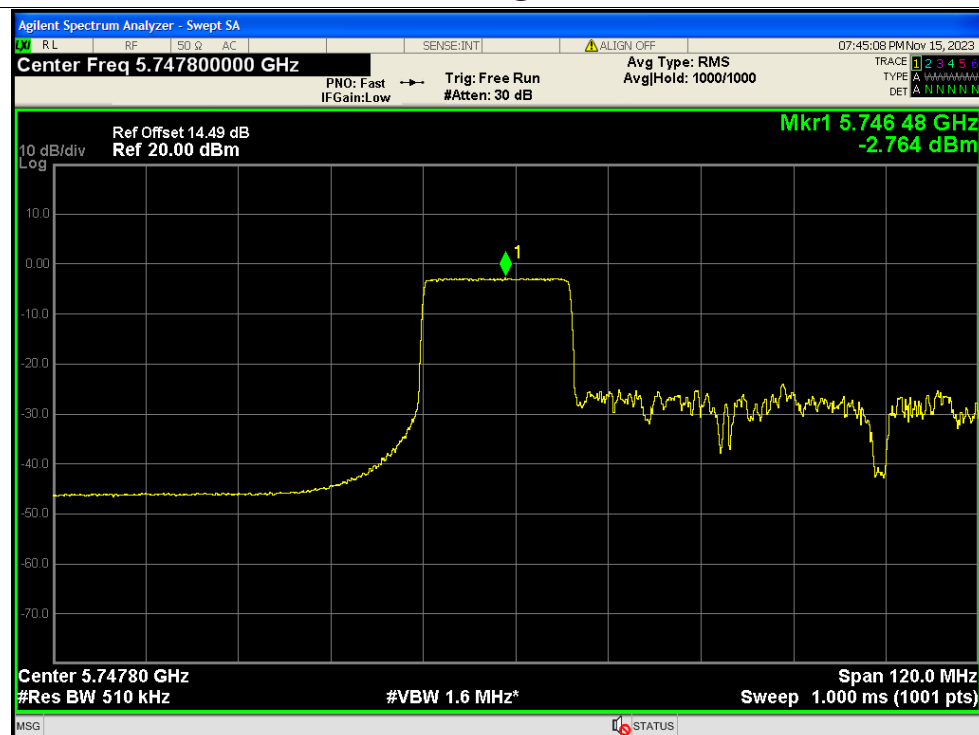




PSD NVNT ax80 242@61 5210MHz Ant2

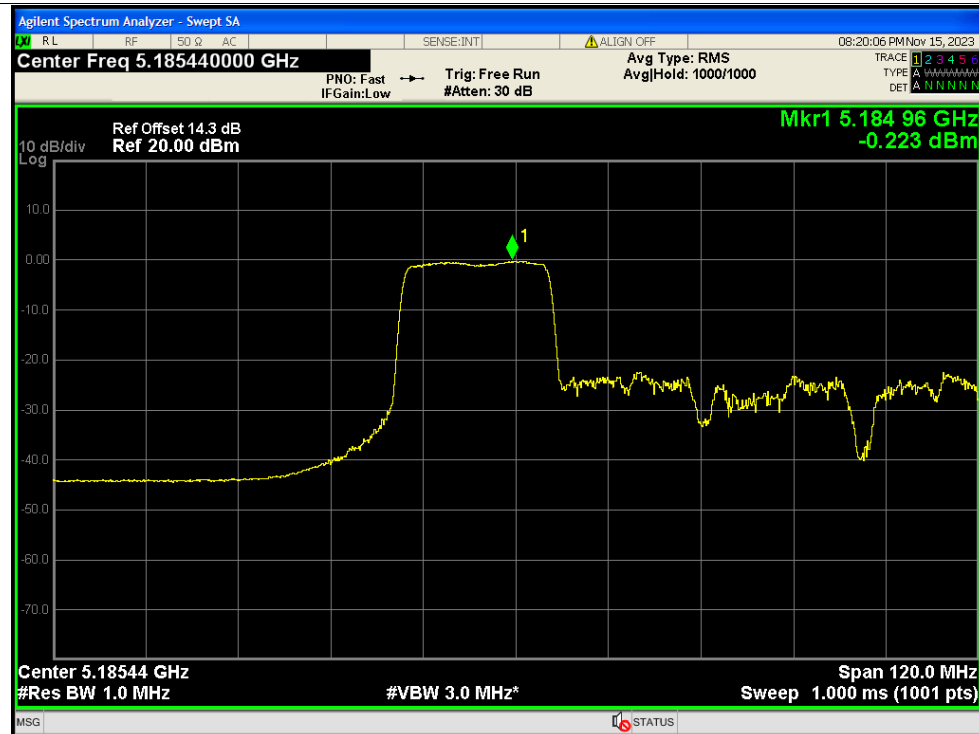


PSD NVNT ax80 242@61 5775MHz Ant2

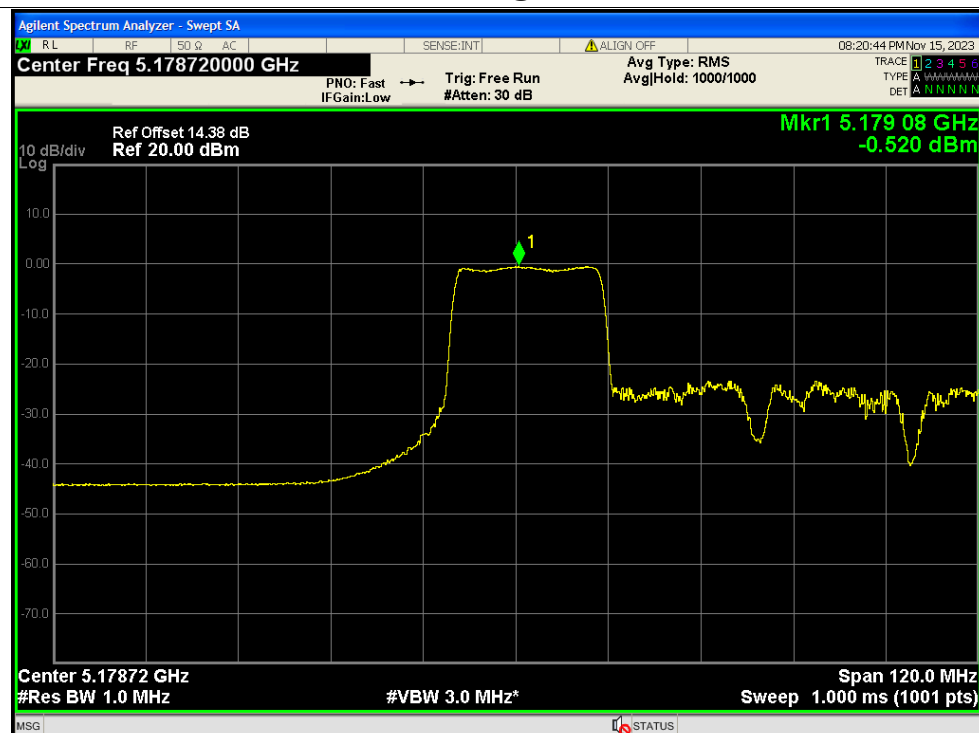




PSD NVNT ax80 242@61 5210MHz Ant1

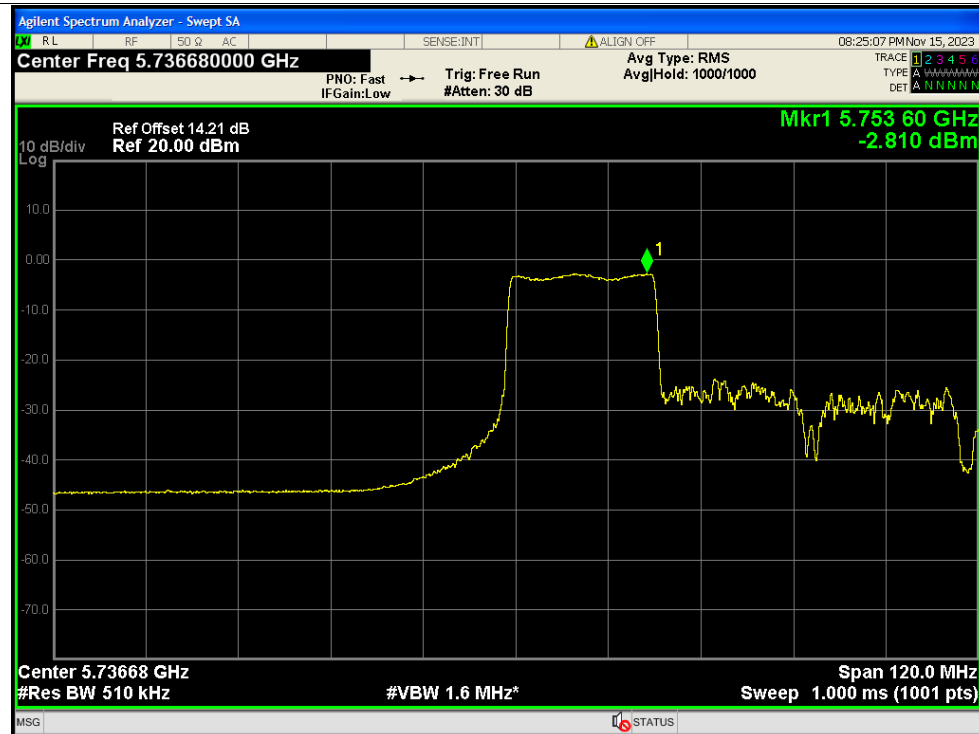


PSD NVNT ax80 242@61 5210MHz Ant2

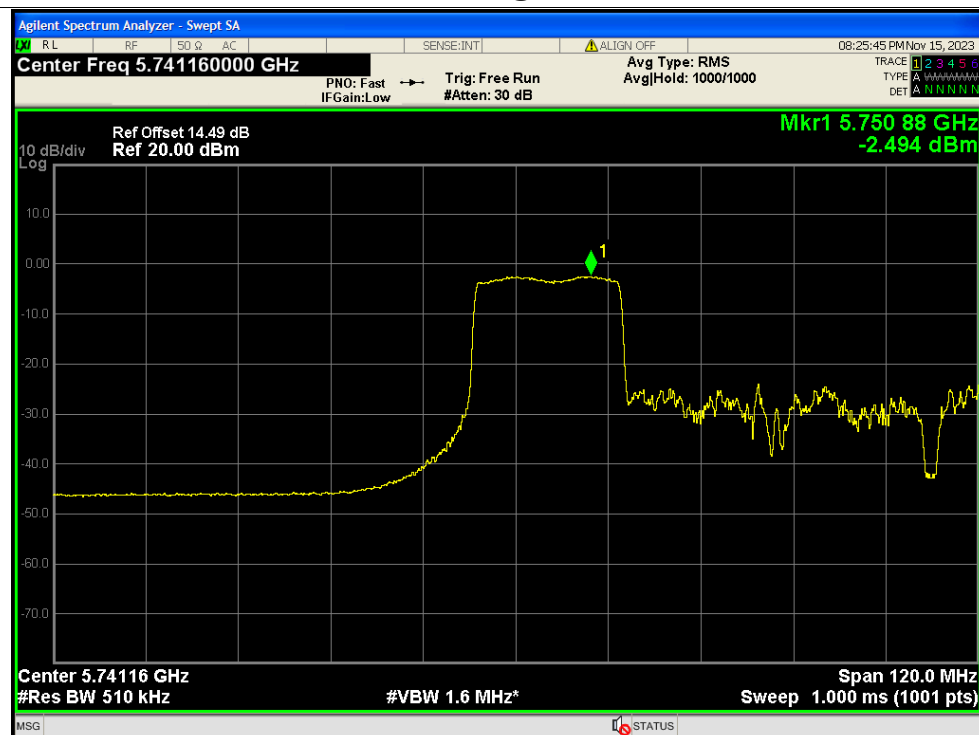




PSD NVNT ax80 242@61 5775MHz Ant1

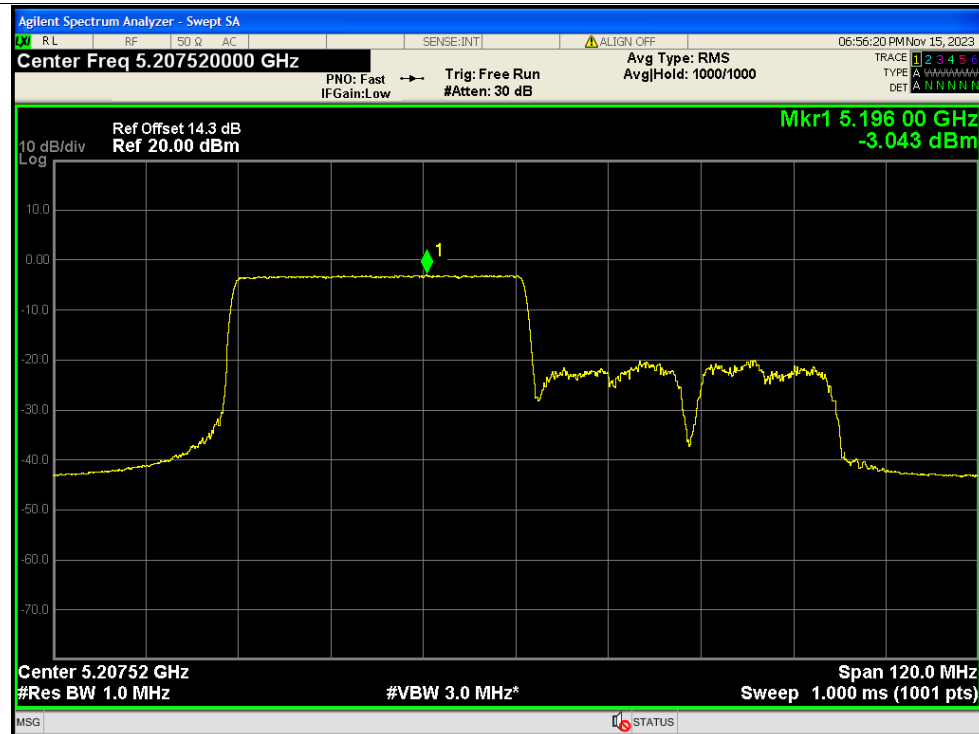


PSD NVNT ax80 242@61 5775MHz Ant2

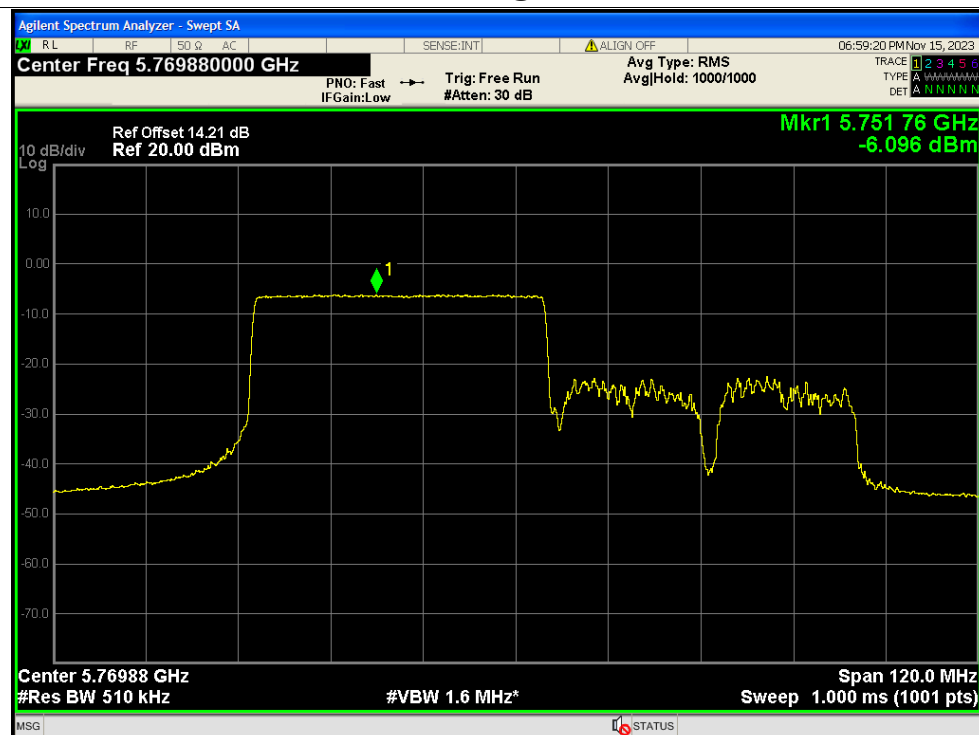




PSD NVNT ax80 484@65 5210MHz Ant1

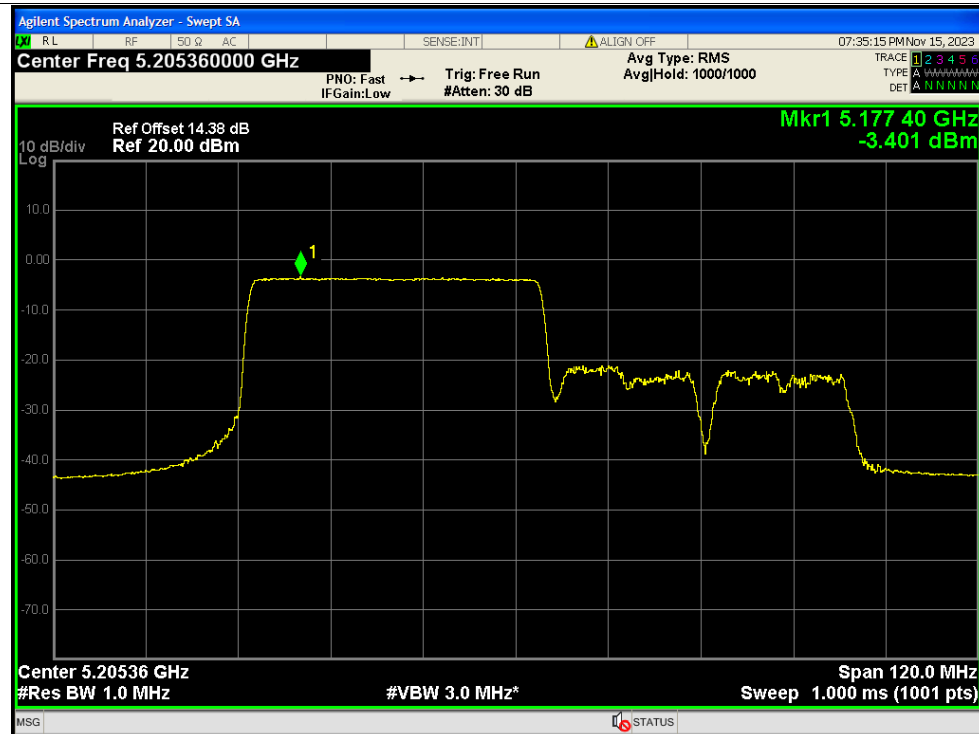


PSD NVNT ax80 484@65 5775MHz Ant1

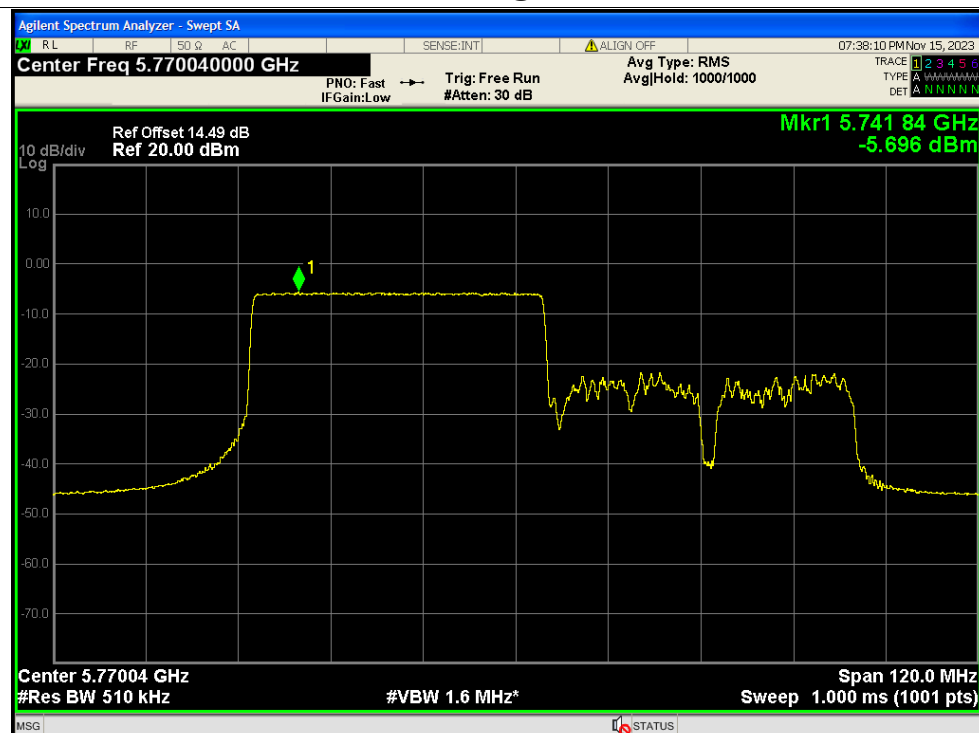




PSD NVNT ax80 484@65 5210MHz Ant2

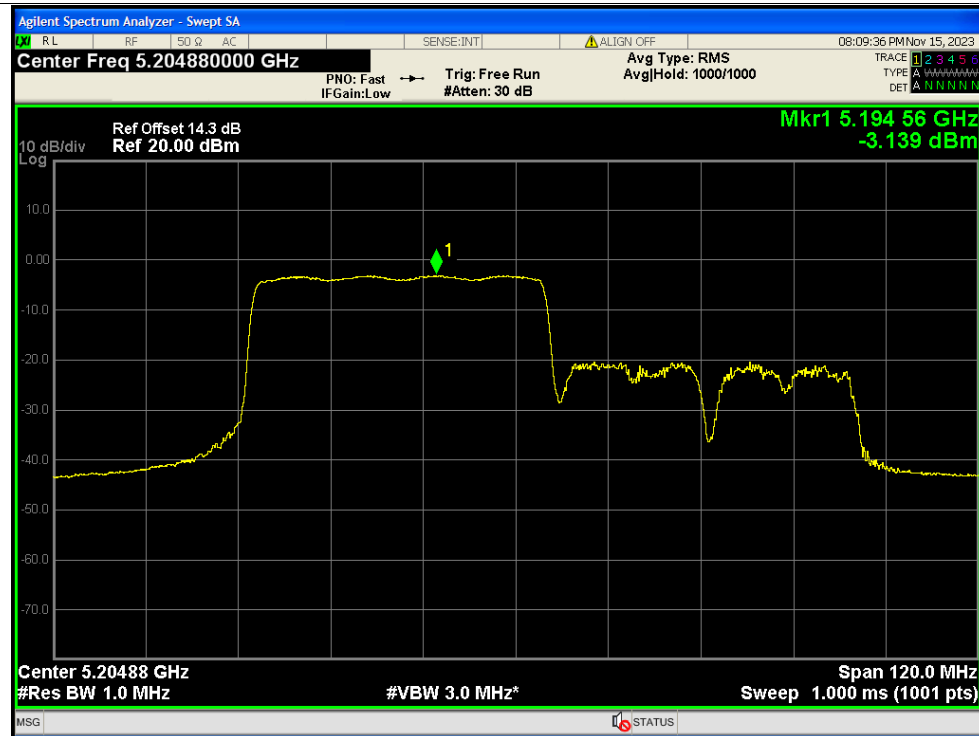


PSD NVNT ax80 484@65 5775MHz Ant2

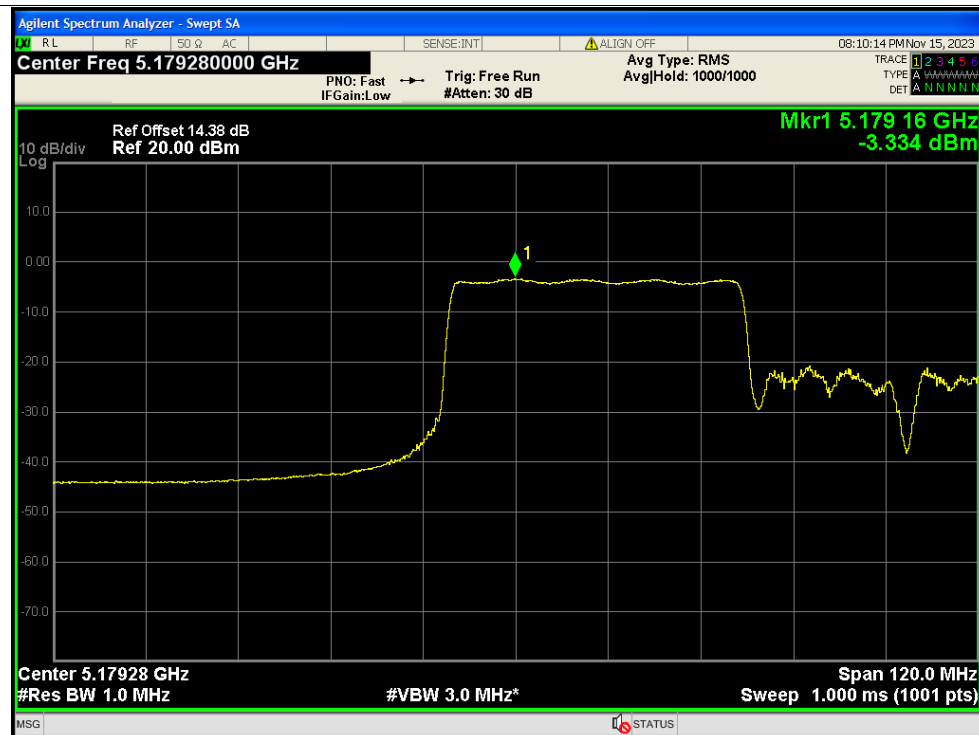




PSD NVNT ax80 484@65 5210MHz Ant1

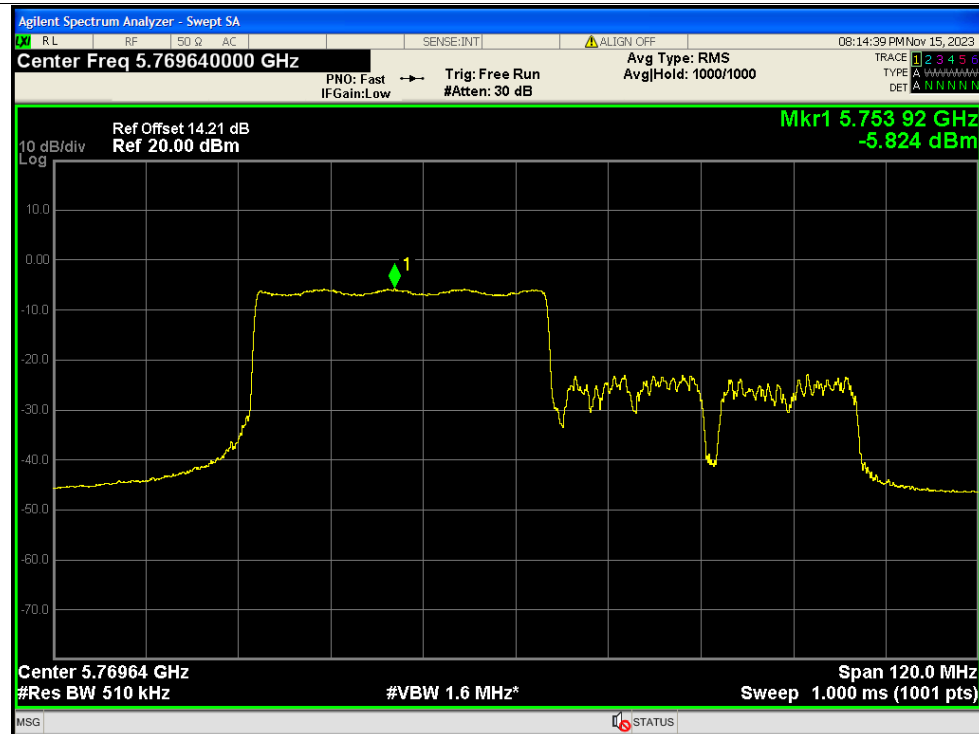


PSD NVNT ax80 484@65 5210MHz Ant2

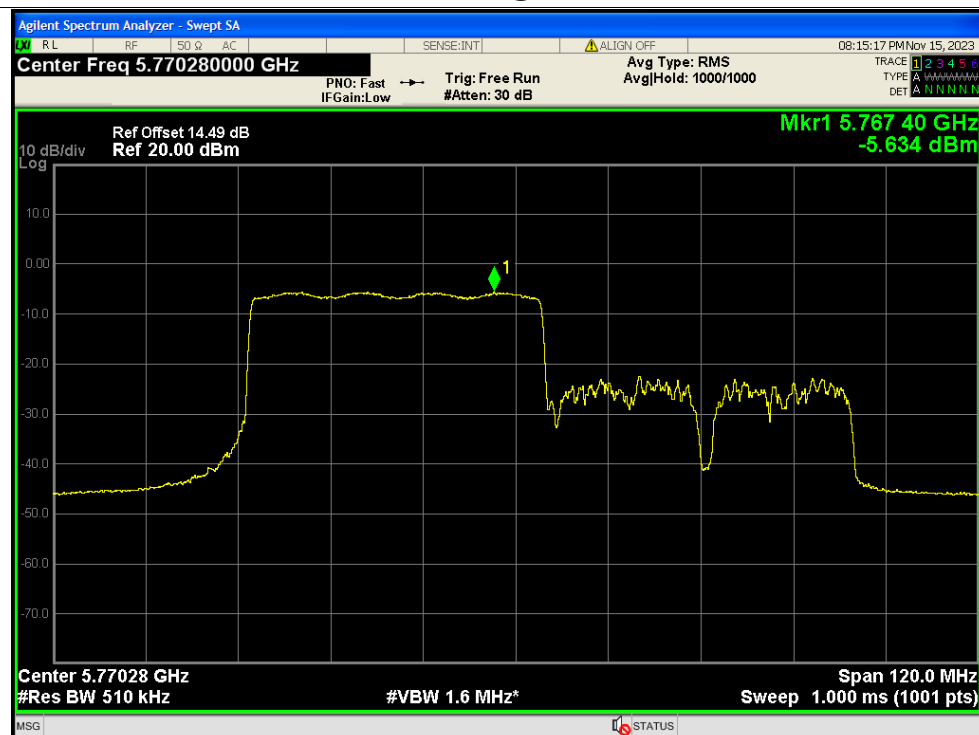




PSD NVNT ax80 484@65 5775MHz Ant1



PSD NVNT ax80 484@65 5775MHz Ant2



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.40V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
20C 4.20V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
-20C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
-10C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
0C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
10C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
20C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
30C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
40C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
45C 3.85V	Carrier	5180	Ant1	5179.980	-20000	-3.86	25	Pass
20C 3.40V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
20C 4.20V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
-20C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
-10C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
0C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
10C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
20C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
30C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
40C 3.85V	Carrier	5745	Ant1	5744.977	-23000	-4.00	25	Pass
45C 3.85V	Carrier	5745	Ant1	5744.976	-24000	-4.18	25	Pass



A.6. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+USB Cable+PC+PC Adapter+WIFI TX

Test voltage: AC 120V/60Hz

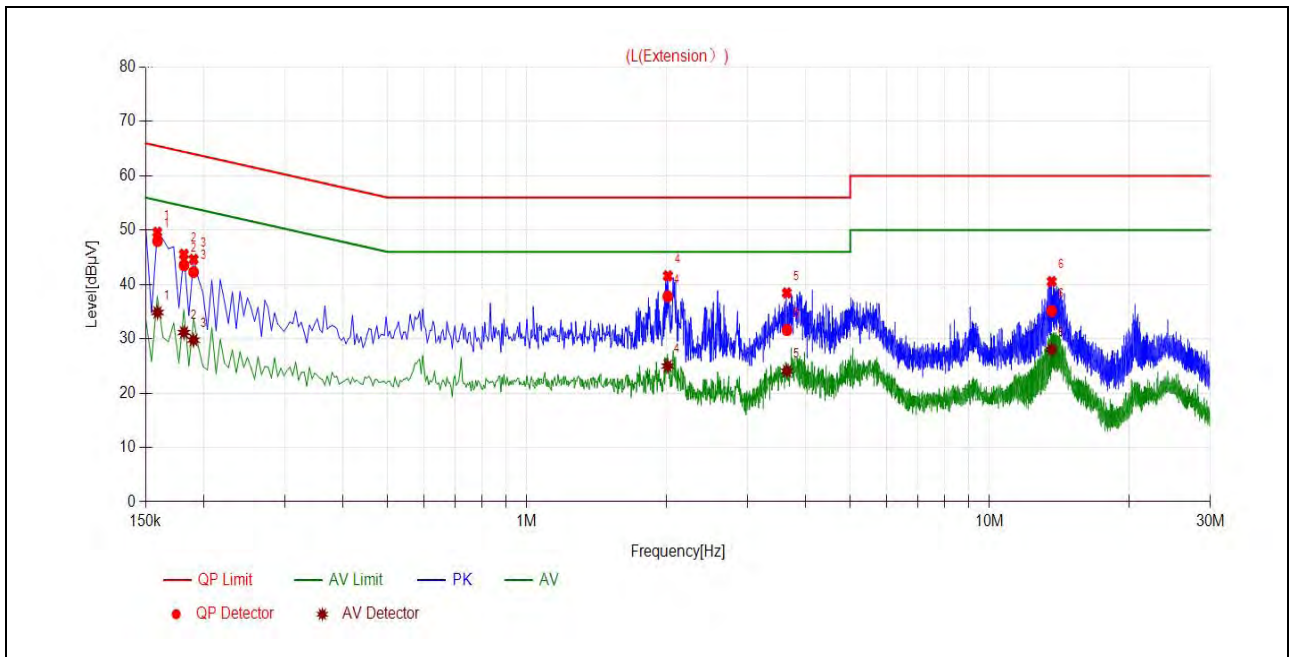
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

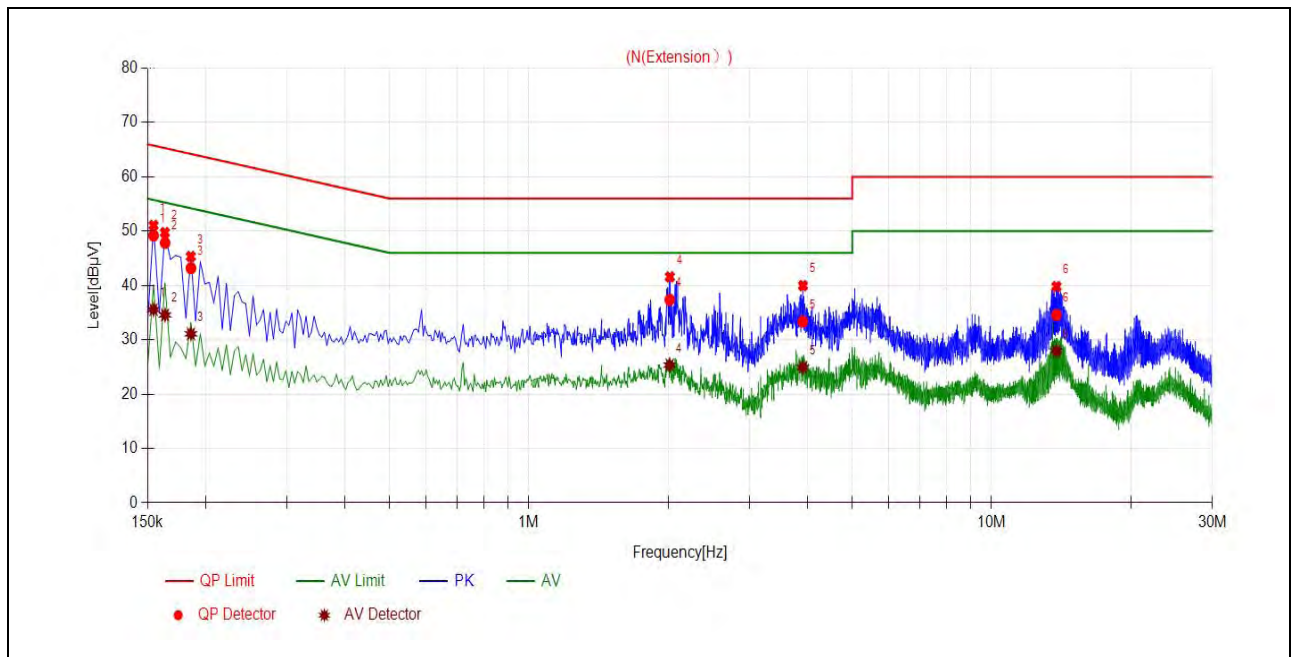
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1592	48.01	34.85	65.51	55.51	Line	PASS
2	0.1816	43.53	31.16	64.41	54.41		PASS
3	0.1904	42.29	29.76	64.02	54.02		PASS
4	2.0155	37.80	24.99	56.00	46.00		PASS
5	3.6496	31.61	24.06	56.00	46.00		PASS
6	13.6185	35.14	28.04	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1545	49.19	35.56	65.76	55.76	Neutral	PASS
2	0.1636	47.85	34.58	65.28	55.28		PASS
3	0.1861	43.19	31.10	64.21	54.21		PASS
4	2.0159	37.37	25.35	56.00	46.00		PASS
5	3.9091	33.36	24.92	56.00	46.00		PASS
6	13.8092	34.57	27.94	60.00	50.00		PASS



A.7. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

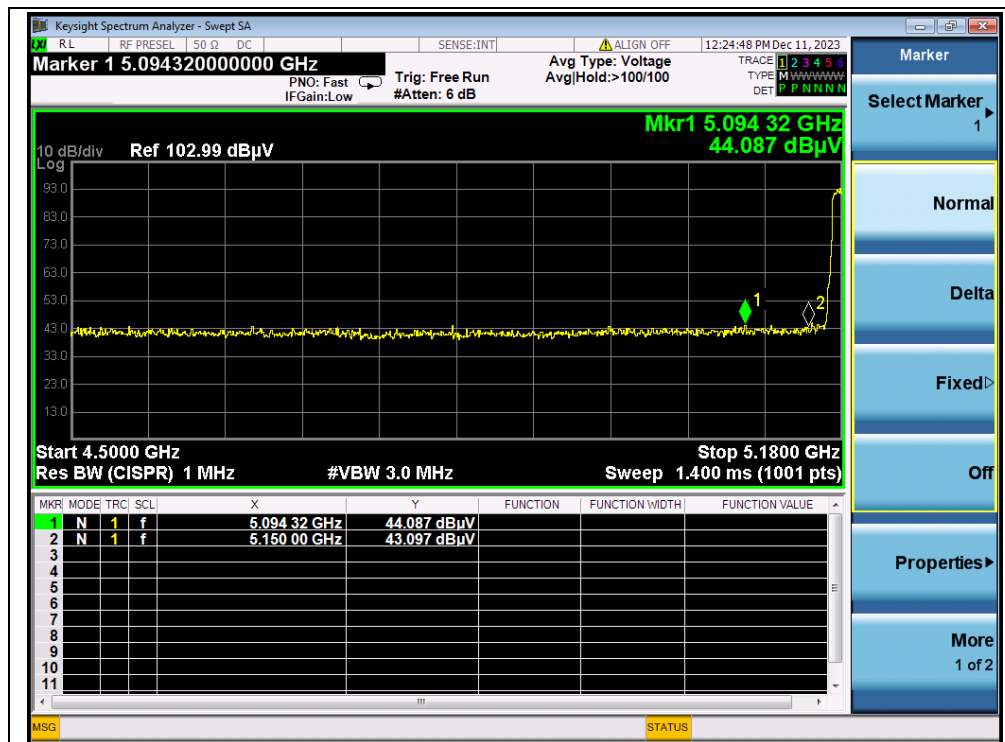
A_{Factor} : Antenna Factor at 3m

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

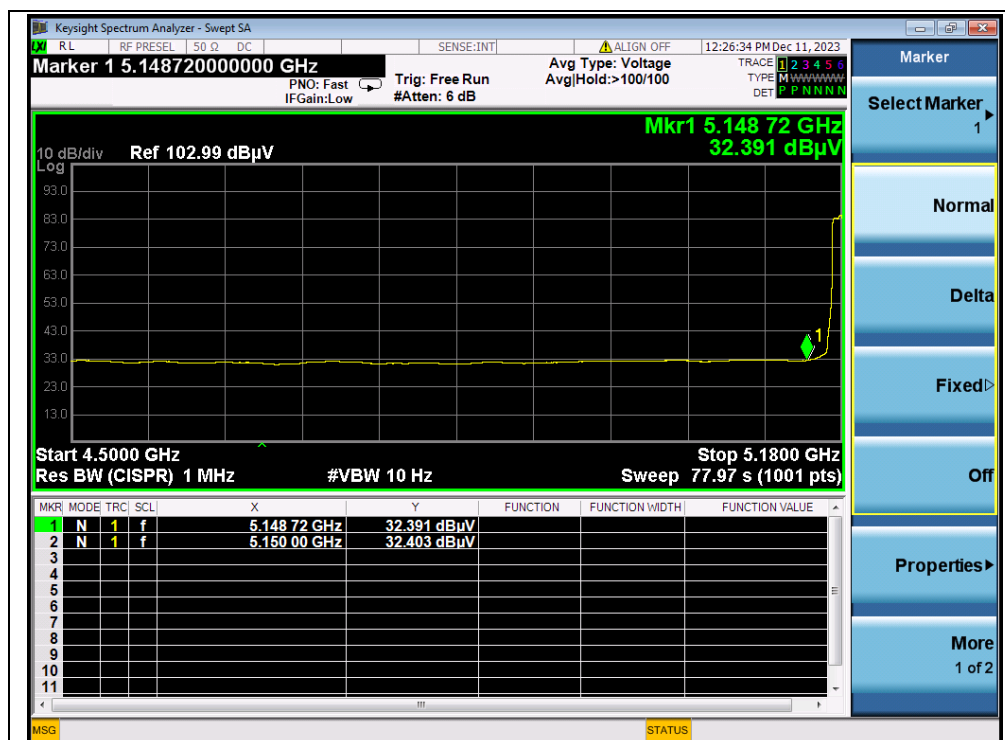
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

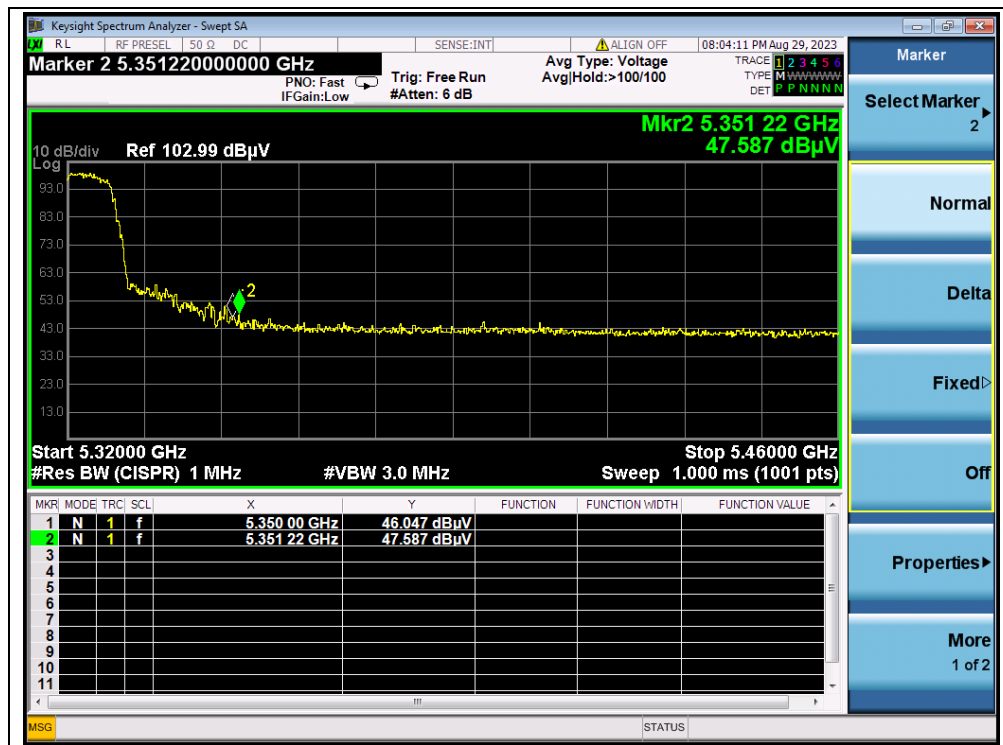
Channel	Frequency (MHz)	Detector	Receiver Reading	A _T (dB)	A _{Factor} (dB@3m)	Max. Emission	Limit (dBμV/m)	Verdict
		PK/ AV	U _R (dBμV)			E (dBμV/m)		
36	5094.32	PK	44.09	-19.54	32.20	56.75	74	PASS
36	5150.00	AV	32.40	-19.54	32.20	45.06	54	PASS
48	5360.56	PK	42.65	-19.54	32.20	55.31	74	PASS
48	5351.98	AV	30.43	-19.54	32.20	43.09	54	PASS
149	5725.00	PK	55.82	-19.01	32.20	69.01	122.23	PASS
165	5850.00	PK	49.82	-19.01	32.20	63.01	122.23	PASS



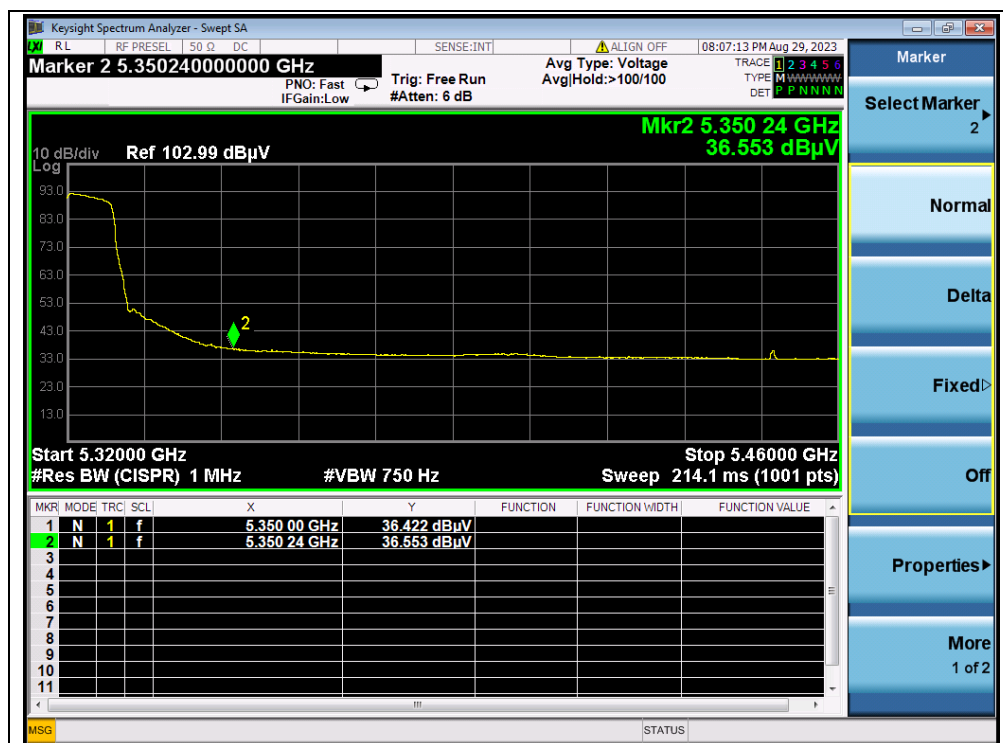
(PEAK, Channel 36, 802.11a)



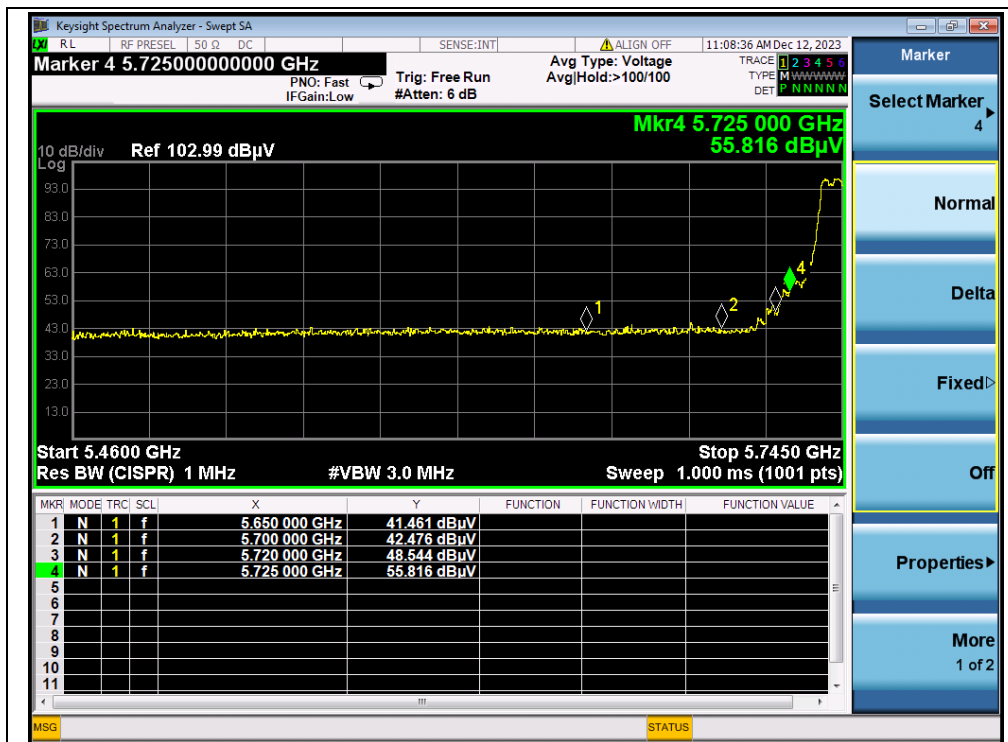
(AVERAGE, Channel 36, 802.11a)



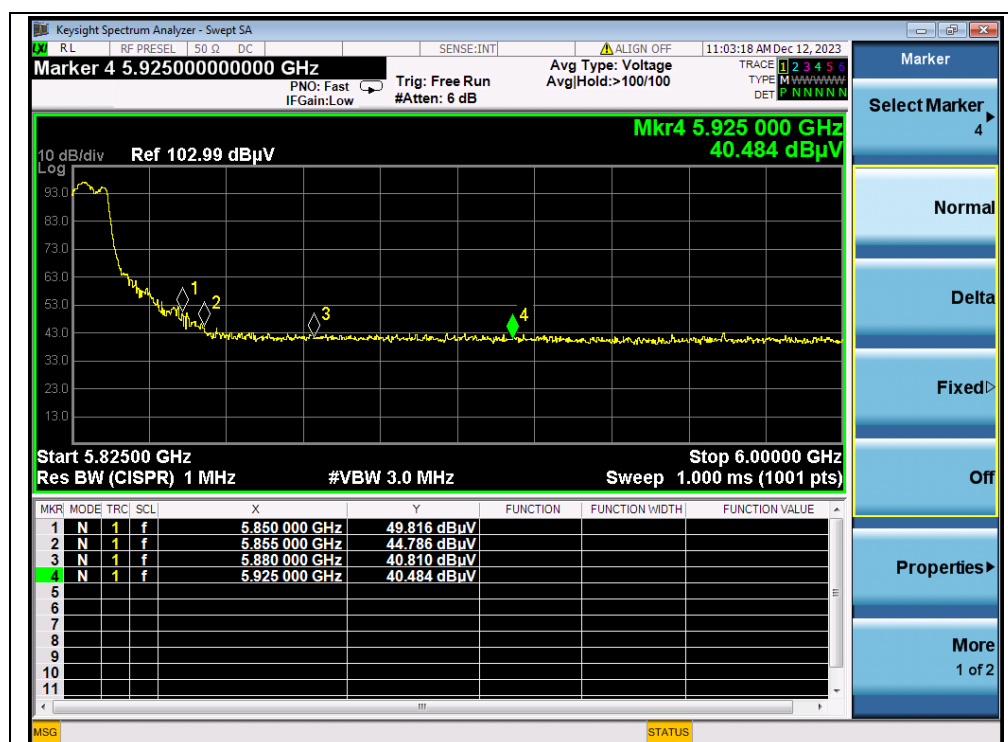
(PEAK, Channel 48, 802.11a)



(AVERAGE, Channel 48, 802.11a)



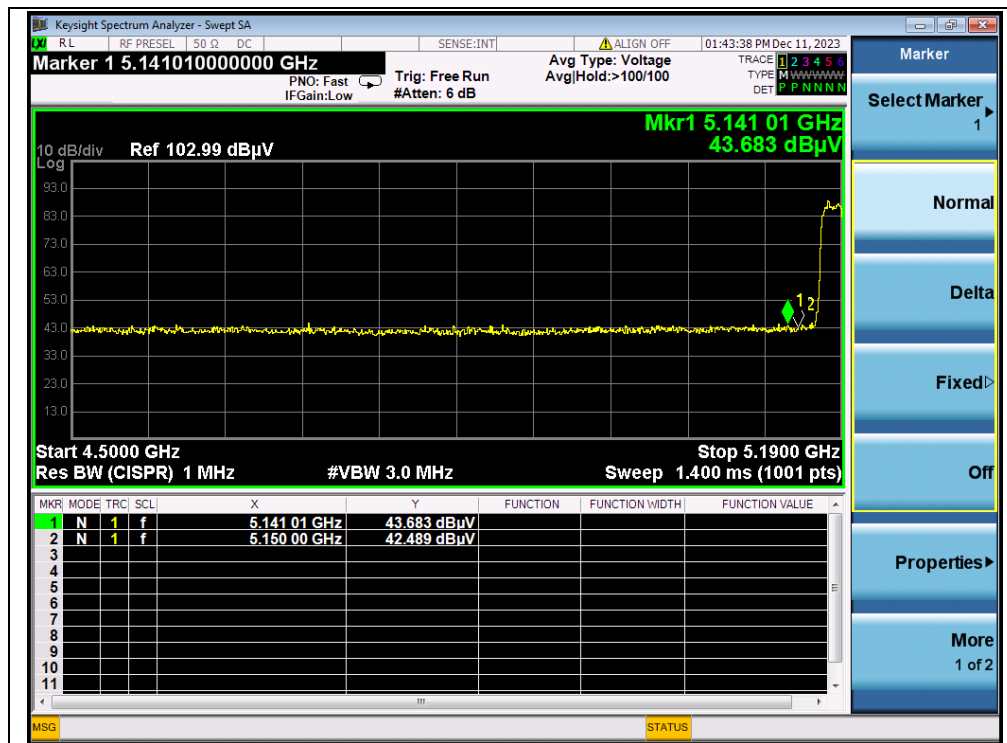
(PEAK, Channel 149, 802.11a)



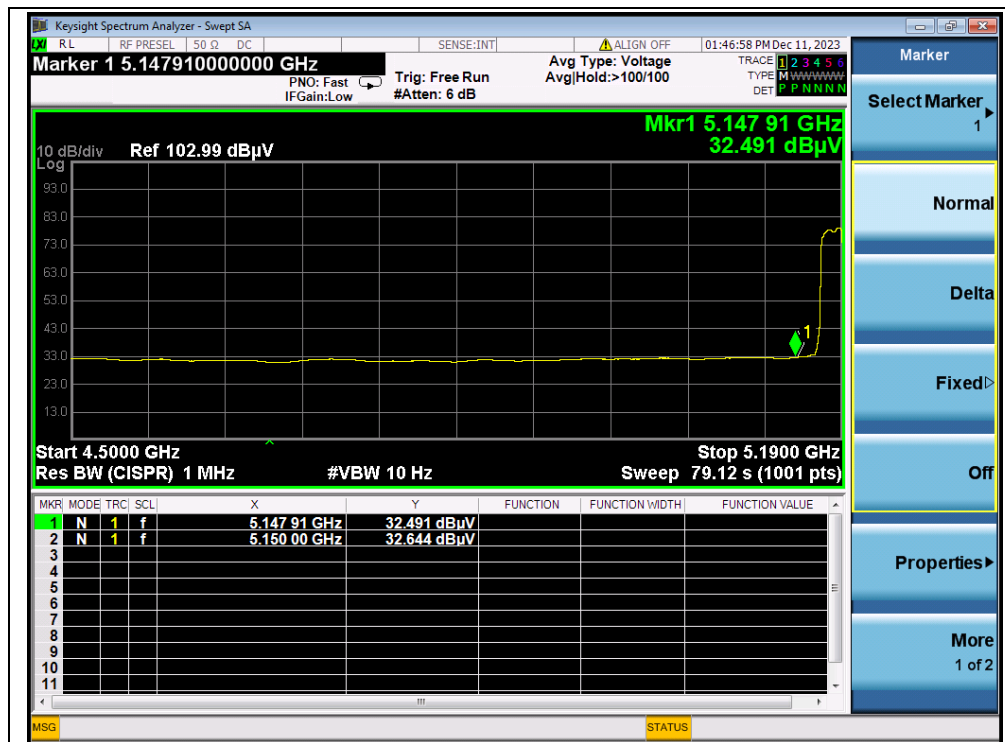
(PEAK, Channel 165, 802.11a)

**802.11n (HT40) Mode**

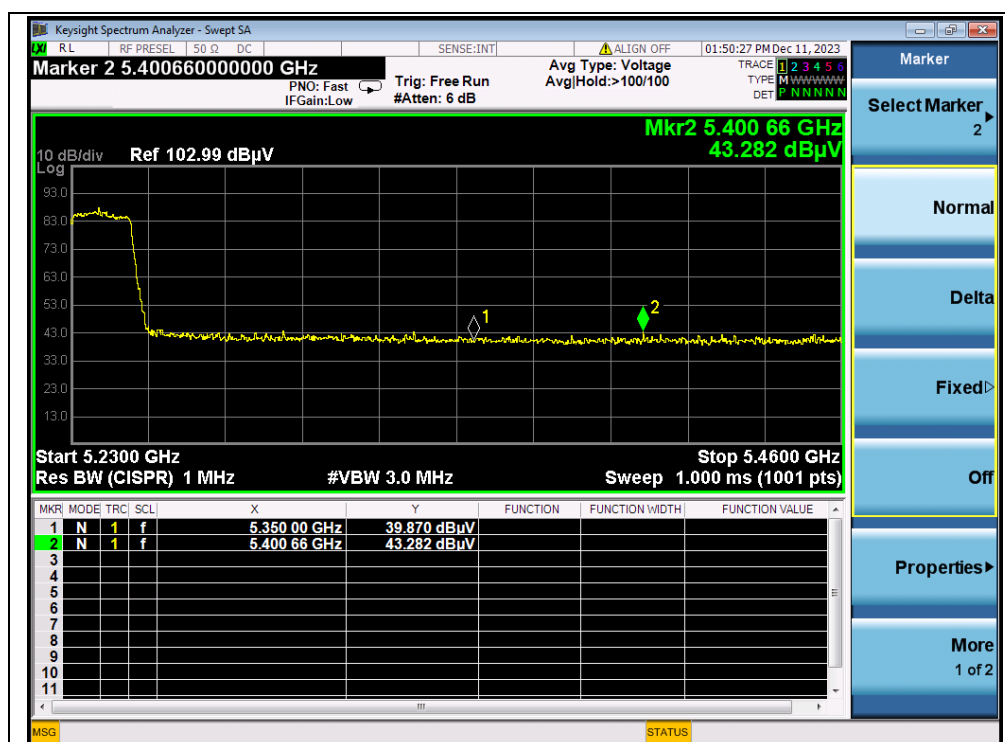
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5141.01	PK	43.68	-19.54	32.20	56.34	74	PASS
38	5150.00	AV	32.64	-19.54	32.20	45.30	54	PASS
46	5400.66	PK	43.28	-19.54	32.20	55.94	74	PASS
46	5360.98	AV	30.49	-19.54	32.20	43.15	54	PASS
151	5720.00	PK	55.43	-19.01	32.20	68.62	110.83	PASS
159	5880.00	PK	41.74	-19.01	32.20	54.93	101.53	PASS



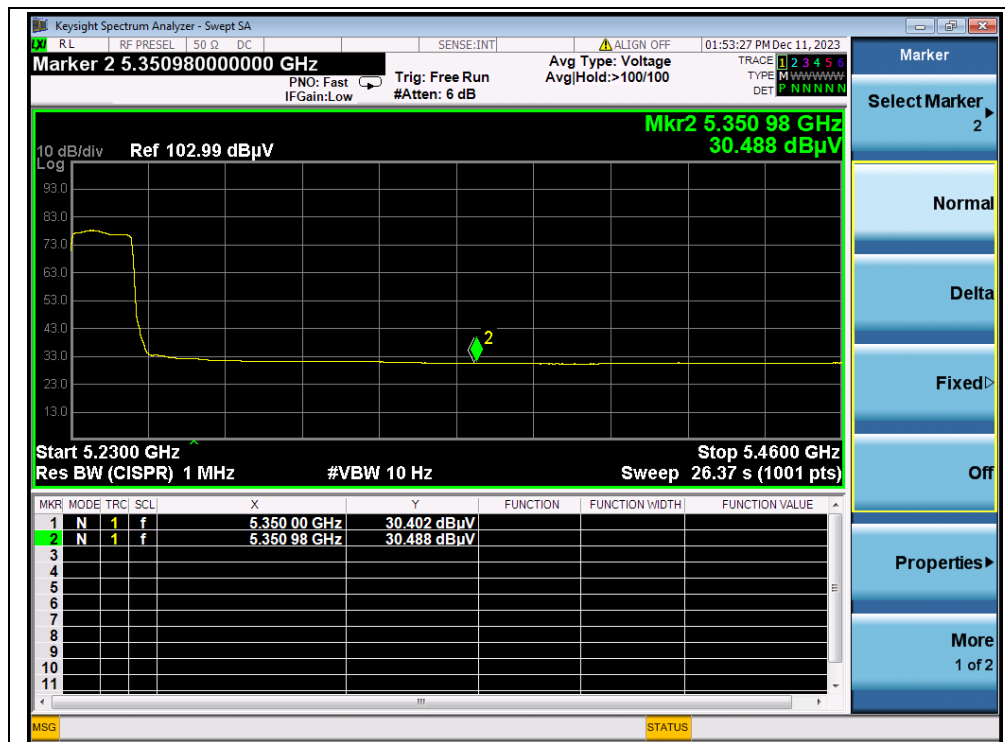
(PEAK, Channel 38, 802.11n (HT40))



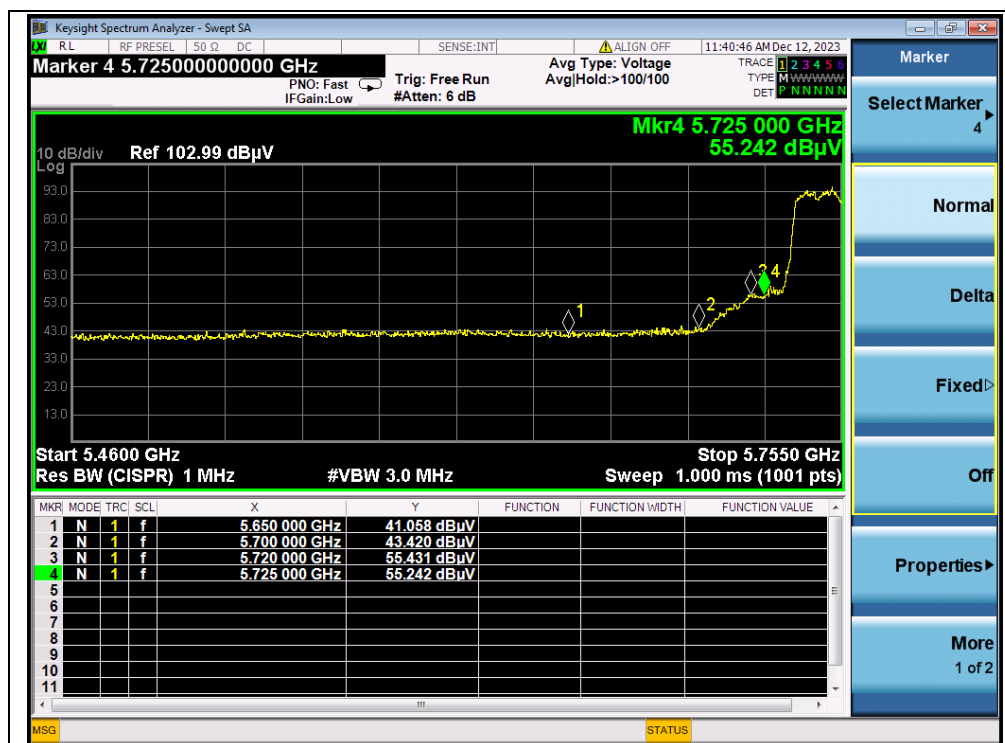
(AVERAGE, Channel 38, 802.11n (HT40))



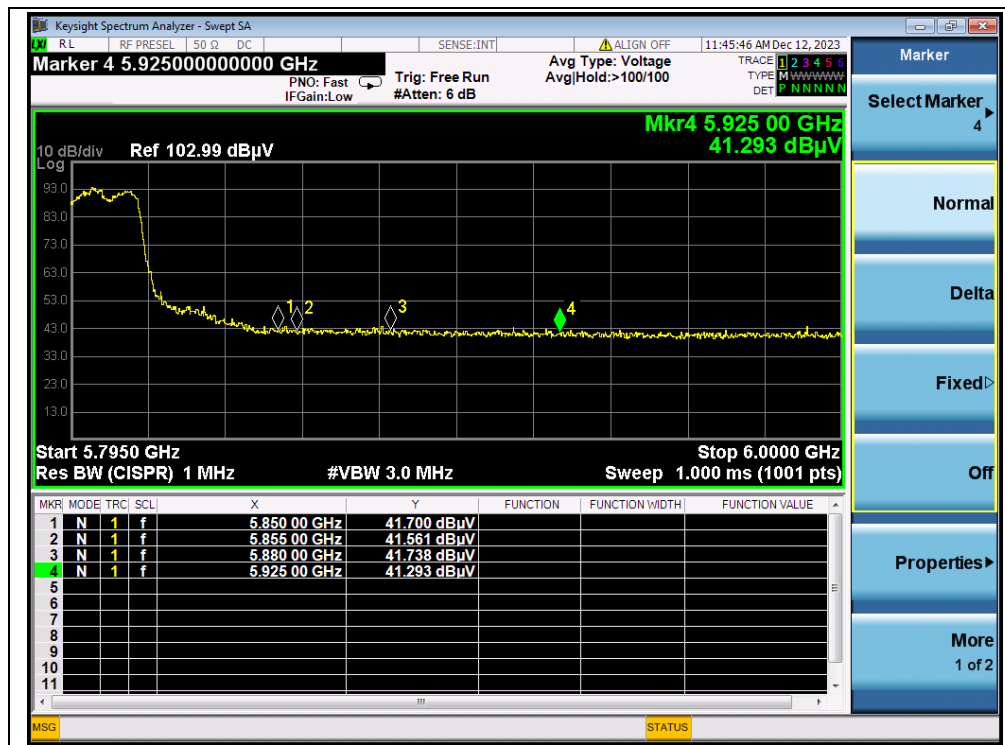
(PEAK, Channel 46, 802.11n (HT40))



(AVERAGE, Channel 46, 802.11n (HT40))



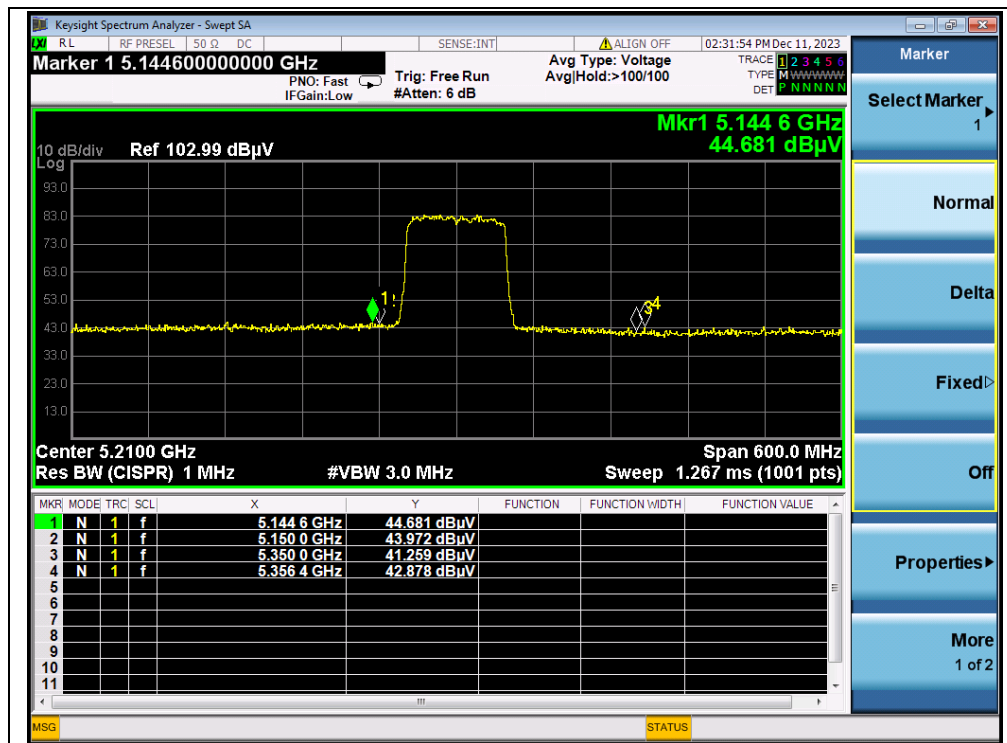
(PEAK, Channel 151, 802.11n (HT40))



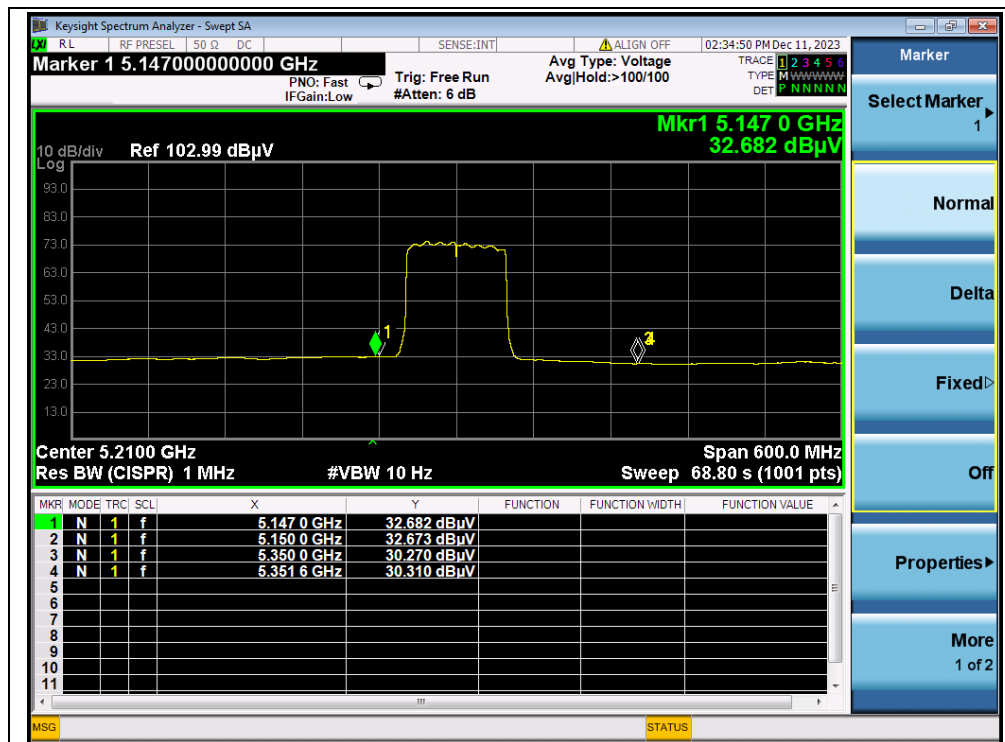
(PEAK, Channel 159, 802.11n (HT40))

**802.11ac (VHT80) Mode**

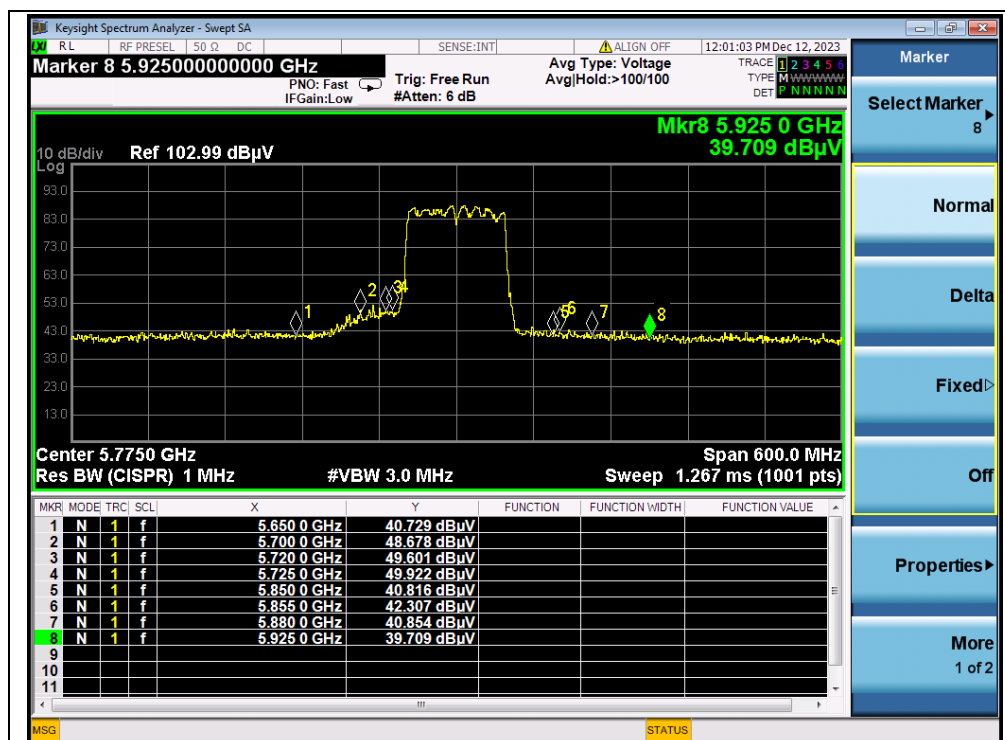
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5144.60	PK	44.68	-19.54	32.20	57.34	74	PASS
42	5147.00	AV	32.68	-19.54	32.20	45.34	54	PASS
42	5356.40	PK	42.88	-19.54	32.20	55.54	74	PASS
42	5351.60	AV	30.31	-19.54	32.20	42.97	54	PASS
155	5725.00	PK	49.92	-19.01	32.20	63.11	122.23	PASS
155	5855.00	PK	42.31	-19.01	32.20	55.50	110.83	PASS



(PEAK, Channel 42, 802.11ac (VHT80))



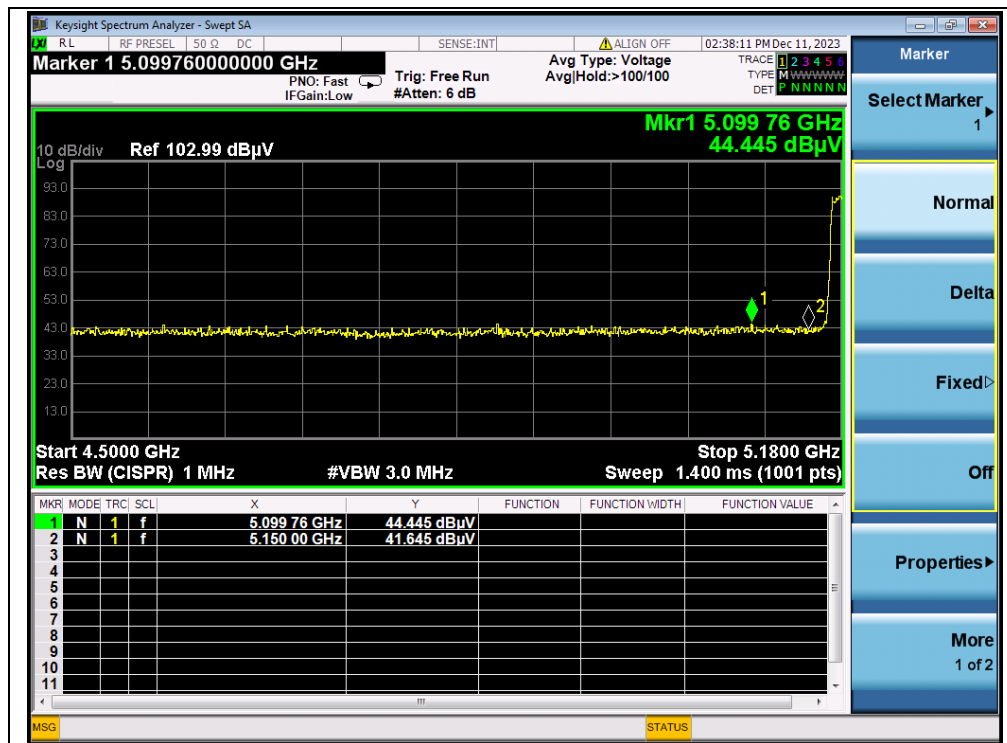
(AVERAGE, Channel 42, 802.11ac (VHT80))



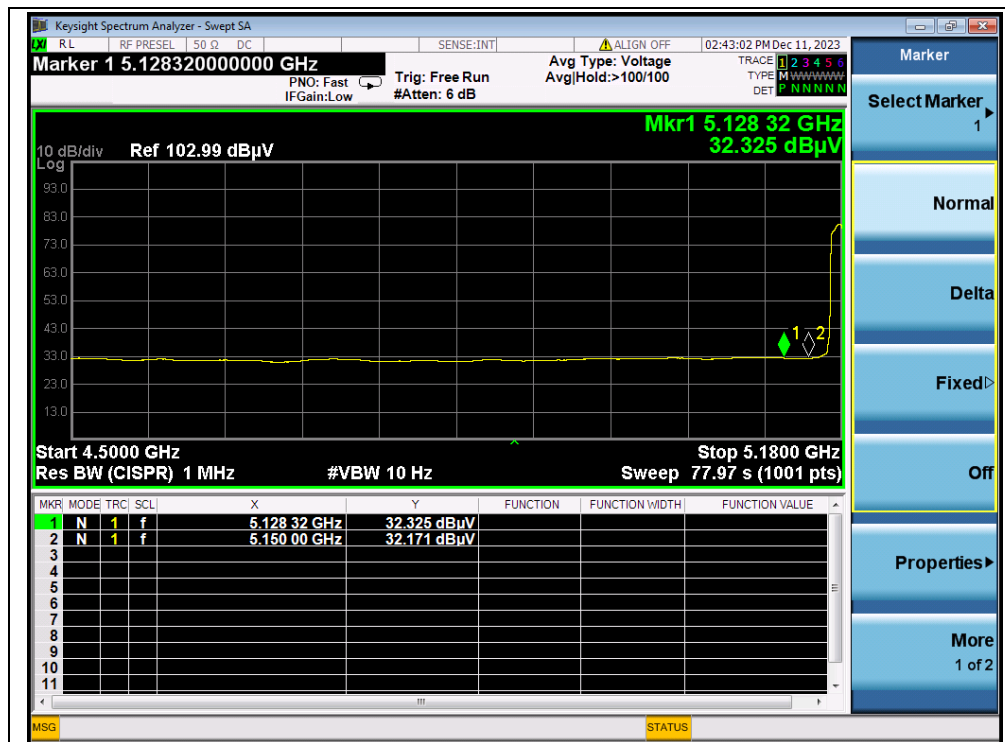
(PEAK, Channel 155, 802.11ac (VHT80))

**802.11ax (HEW20) Mode**

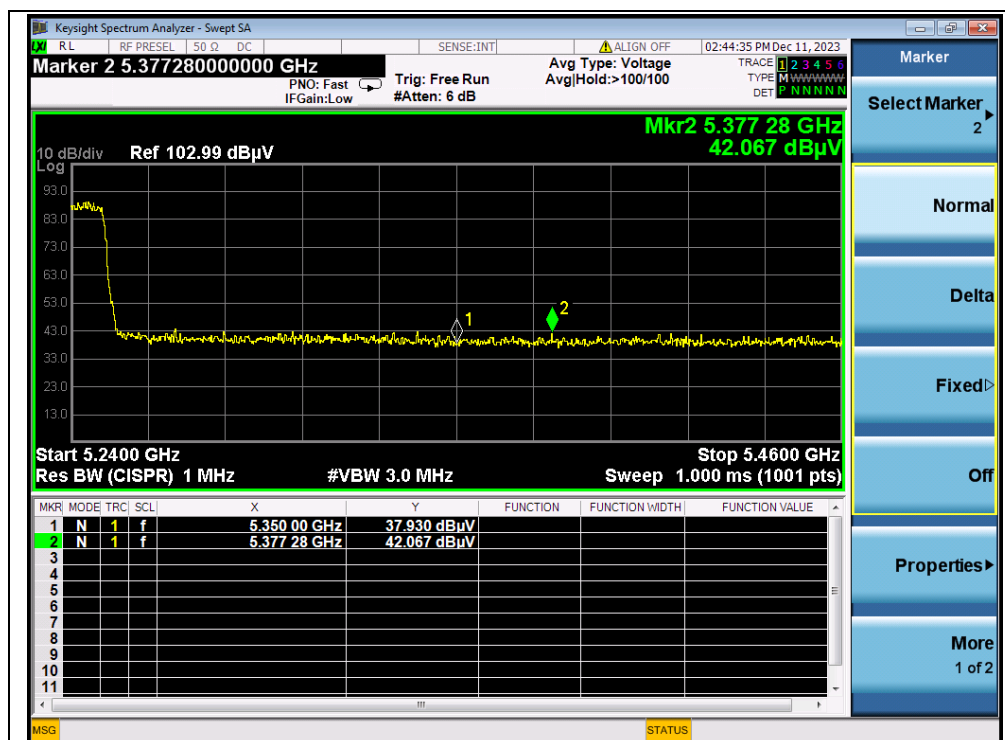
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5099.76	PK	44.45	-19.54	32.20	57.11	74	PASS
36	5128.32	AV	32.33	-19.54	32.20	44.99	54	PASS
48	5377.28	PK	42.07	-19.54	32.20	54.73	74	PASS
48	5350.66	AV	30.43	-19.54	32.20	43.09	54	PASS
149	5725.00	PK	48.81	-19.01	32.20	62.00	122.23	PASS
165	5880.00	PK	41.64	-19.01	32.20	54.83	101.53	PASS



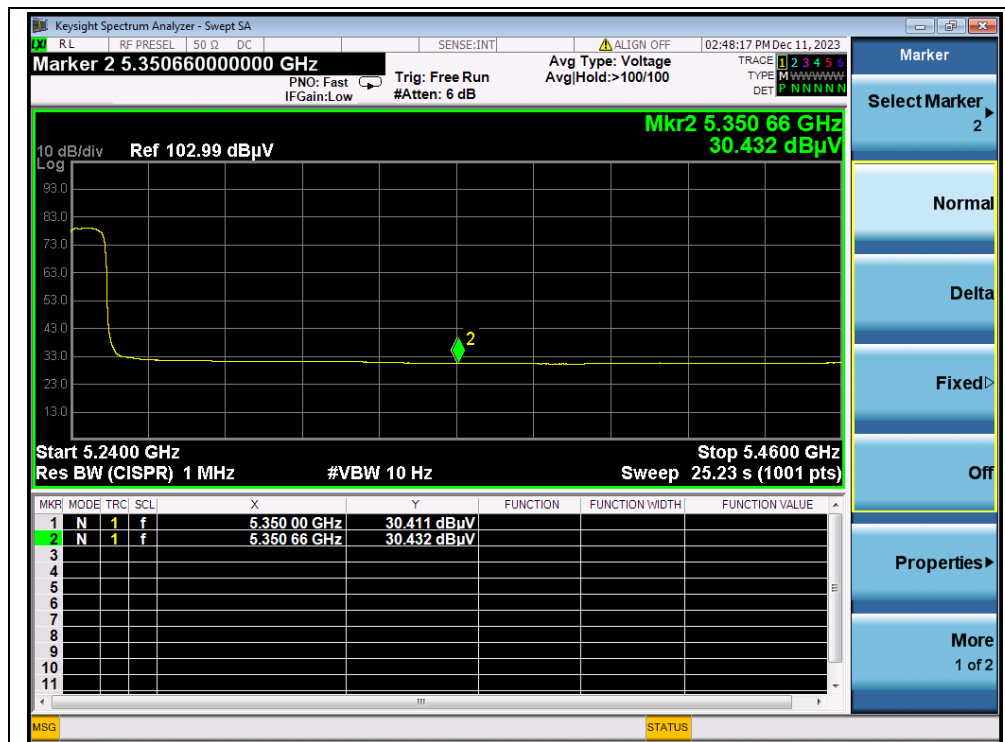
(PEAK, Channel 36, 802.11ax (HEW20))



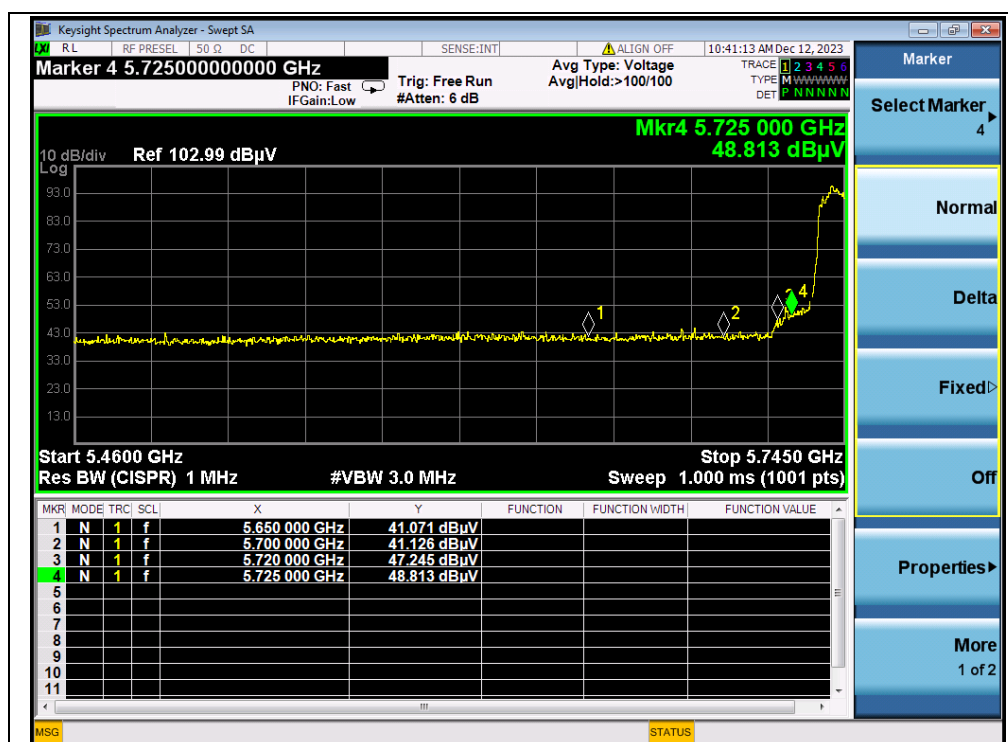
(AVERAGE, Channel 36, 802.11ax (HEW20))



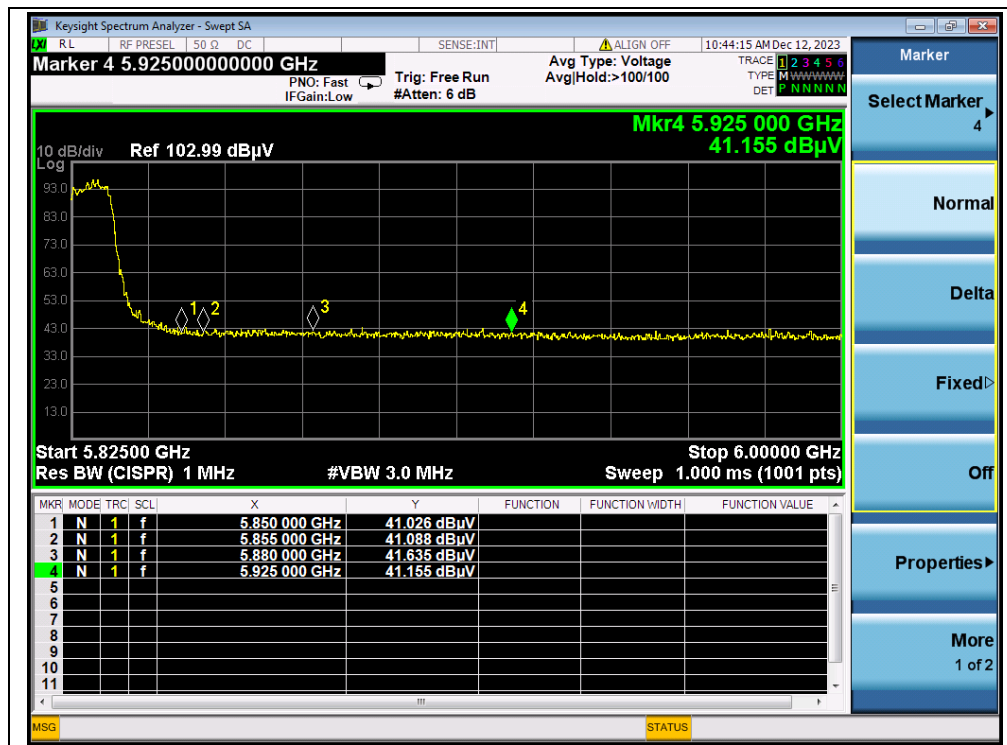
(PEAK, Channel 48, 802.11ax (HEW20))



(AVERAGE, Channel 48, 802.11ax (HEW20))



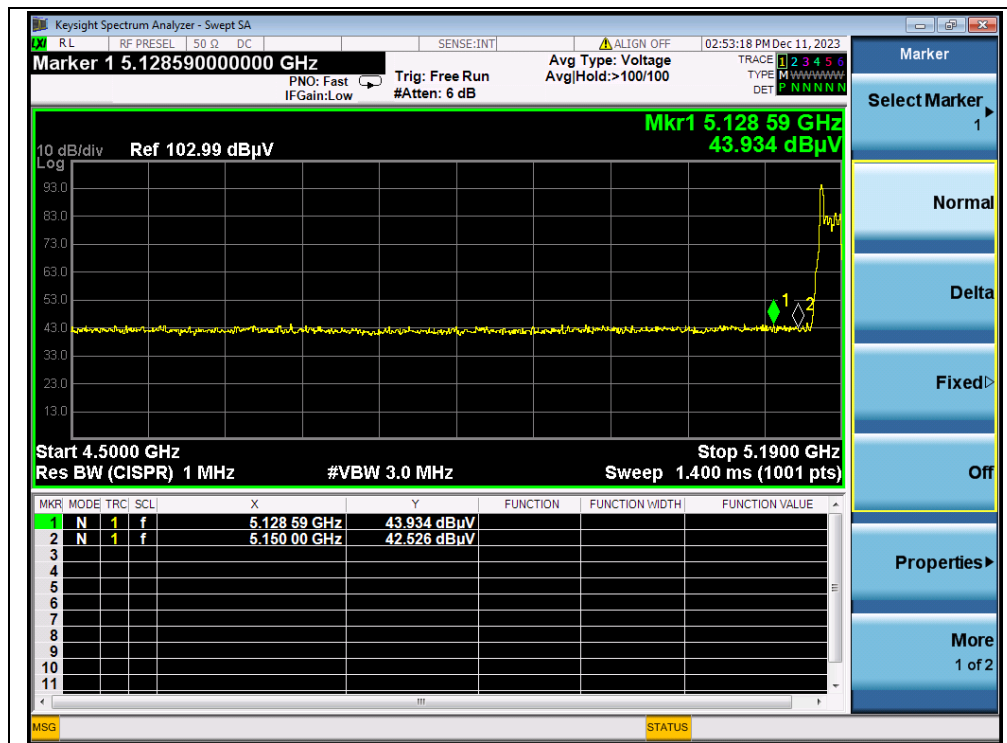
(PEAK, Channel 149, 802.11ax (HEW20))



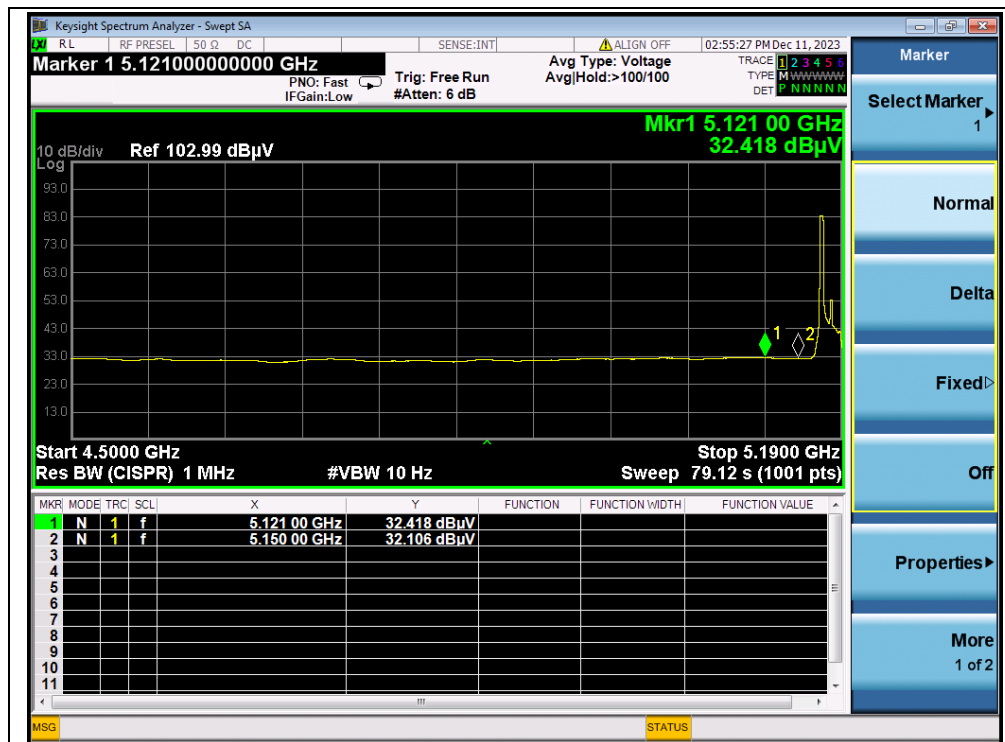
(PEAK, Channel 165, 802.11ax (HEW20))

**802.11ax (HEW20) RU26 Mode**

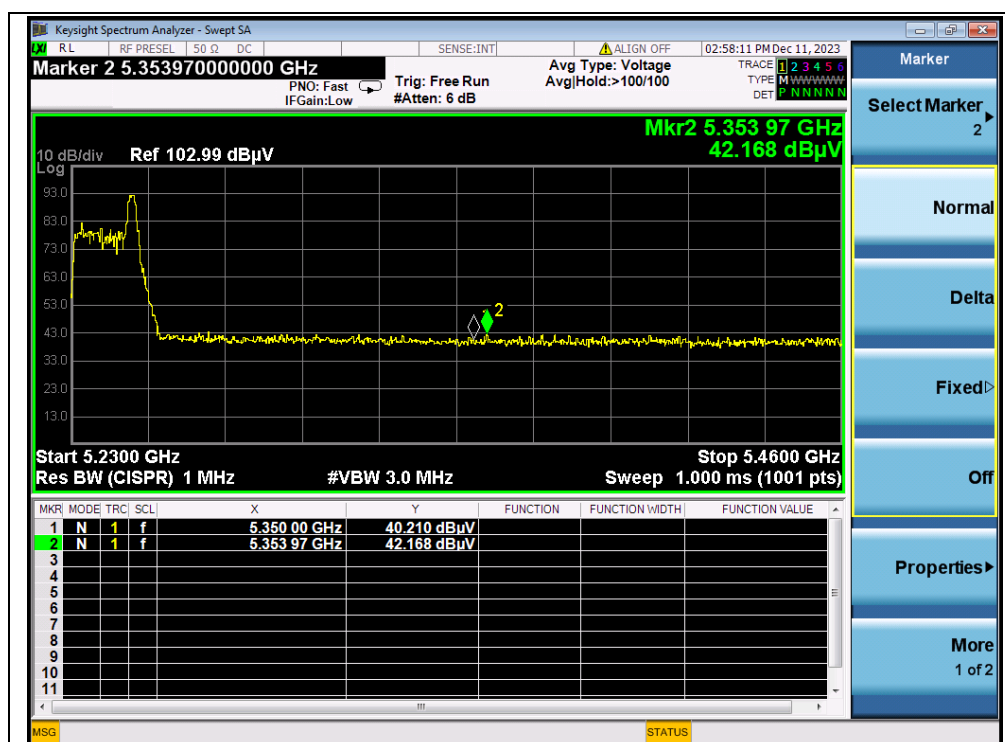
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5128.59	PK	43.93	-19.54	32.20	56.59	74	PASS
36	5121.00	AV	32.42	-19.54	32.20	45.08	54	PASS
48	5353.97	PK	42.17	-19.54	32.20	54.83	74	PASS
48	5410.32	AV	30.65	-19.54	32.20	43.31	54	PASS
149	5725.00	PK	49.84	-19.01	32.20	63.03	122.23	PASS
165	5855.00	PK	54.33	-19.01	32.20	67.52	110.83	PASS



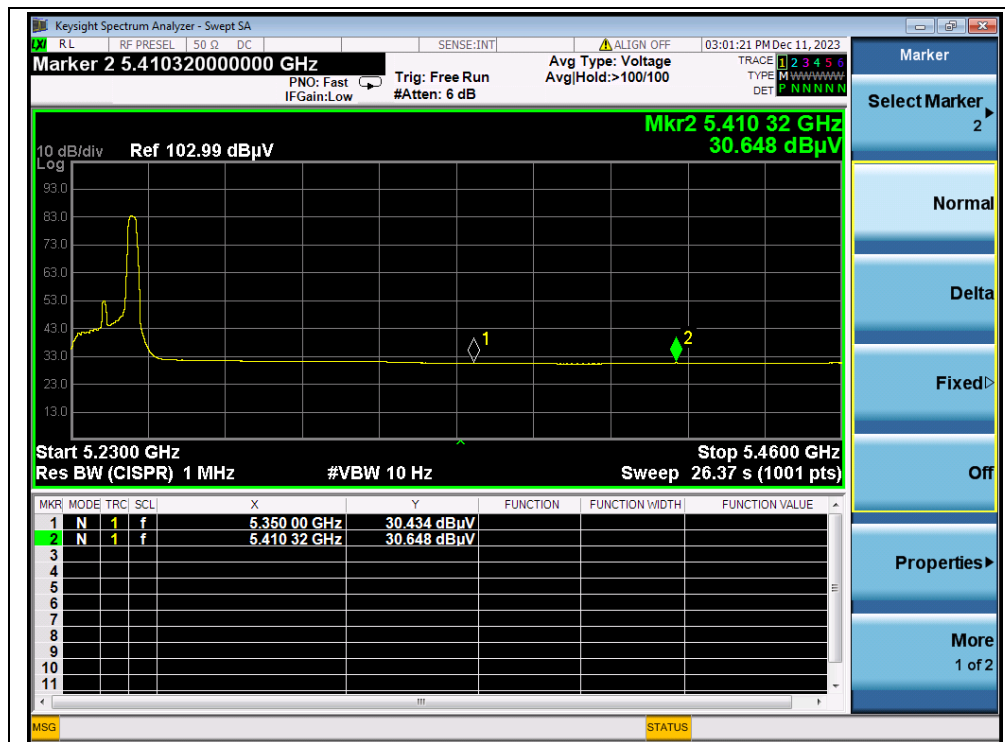
(PEAK, Channel 36, 802.11ax (HEW20) RU26)



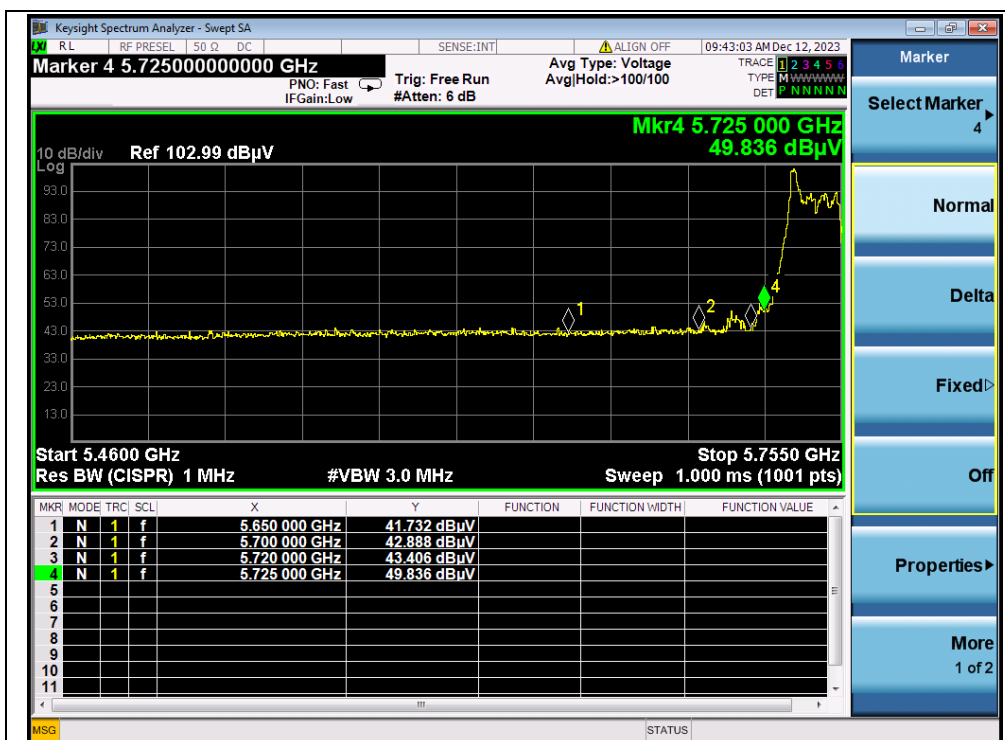
(AVERAGE, Channel 36, 802.11ax (HEW20) RU26)



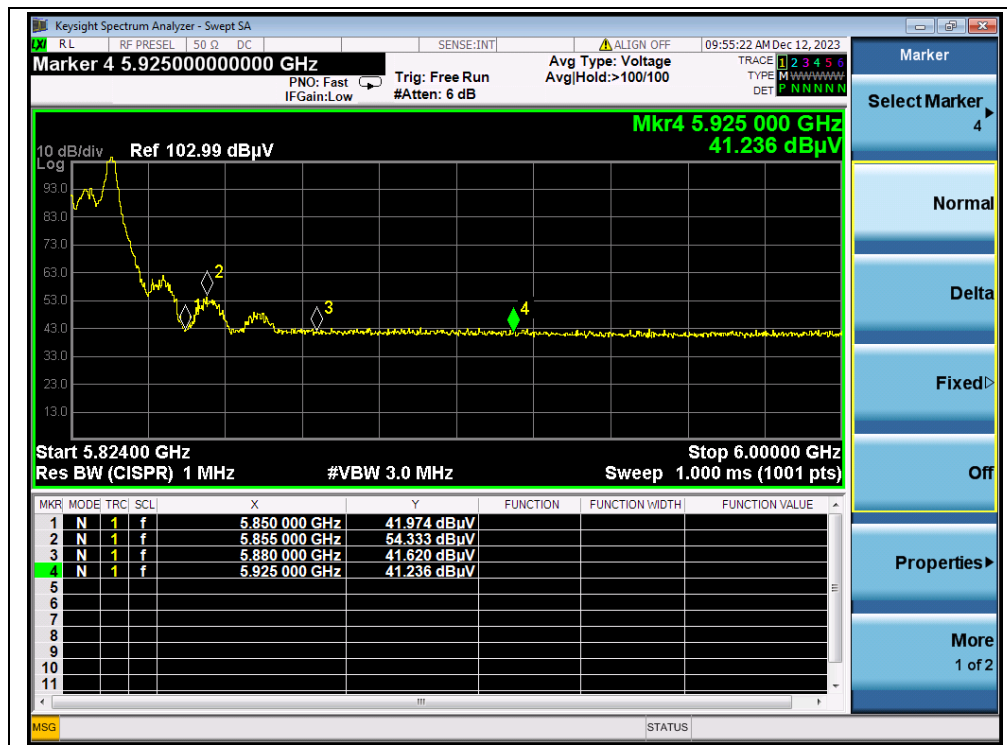
(PEAK, Channel 48, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 48, 802.11ax (HEW20) RU26)



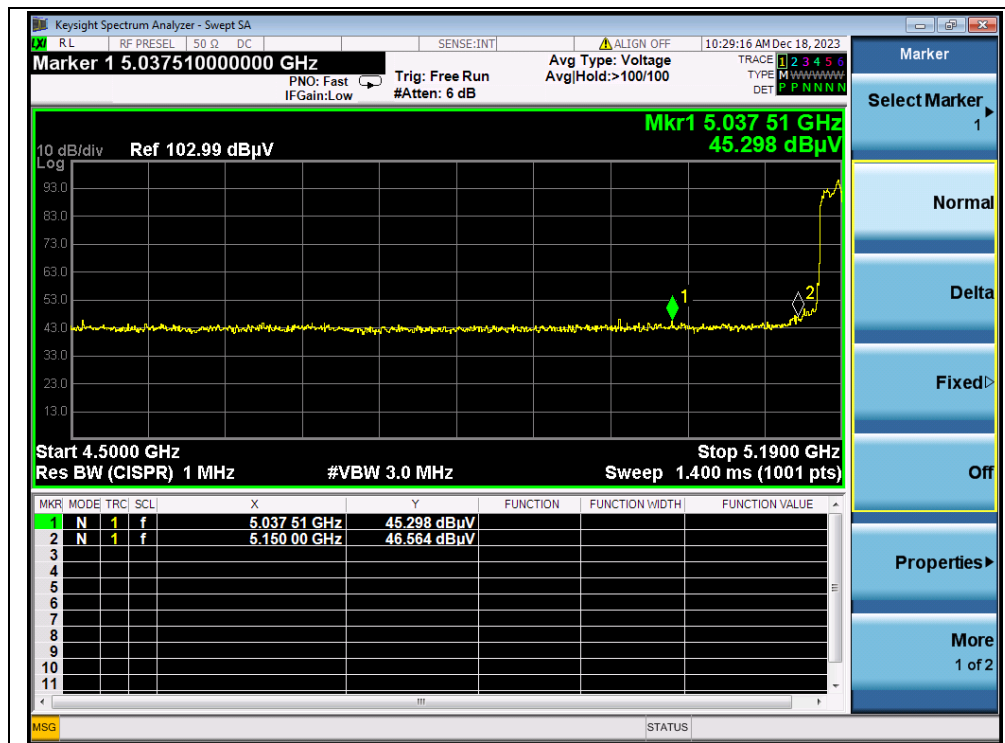
(PEAK, Channel 149, 802.11ax (HEW20) RU26)



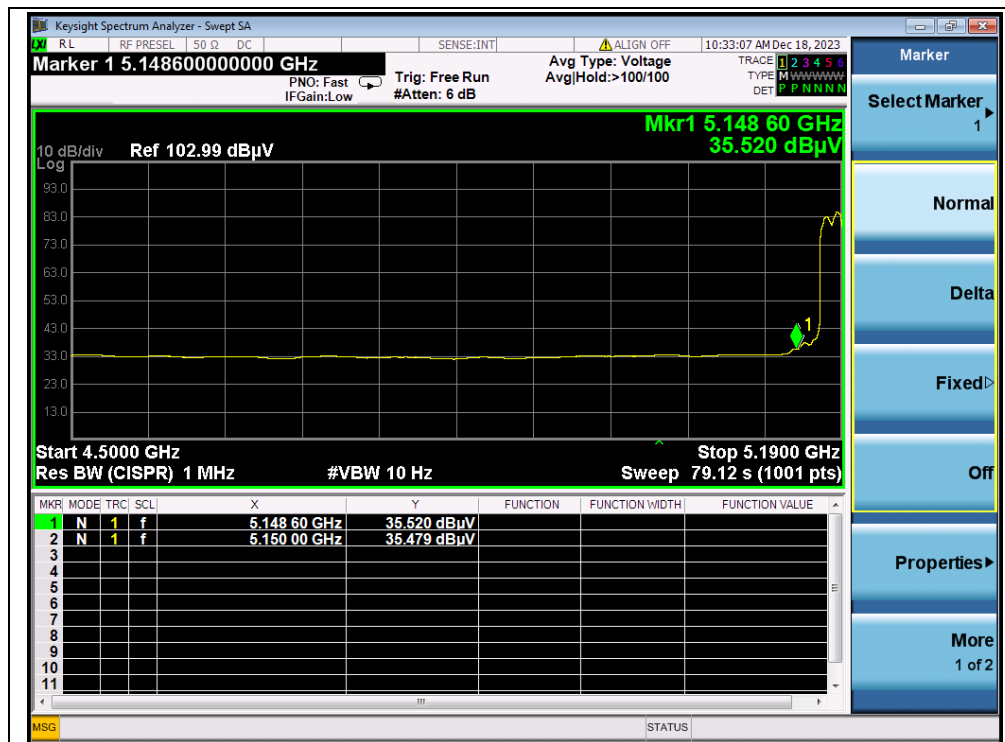
(PEAK, Channel 165, 802.11ax (HEW20) RU26)

**802.11ax (HEW40) Mode**

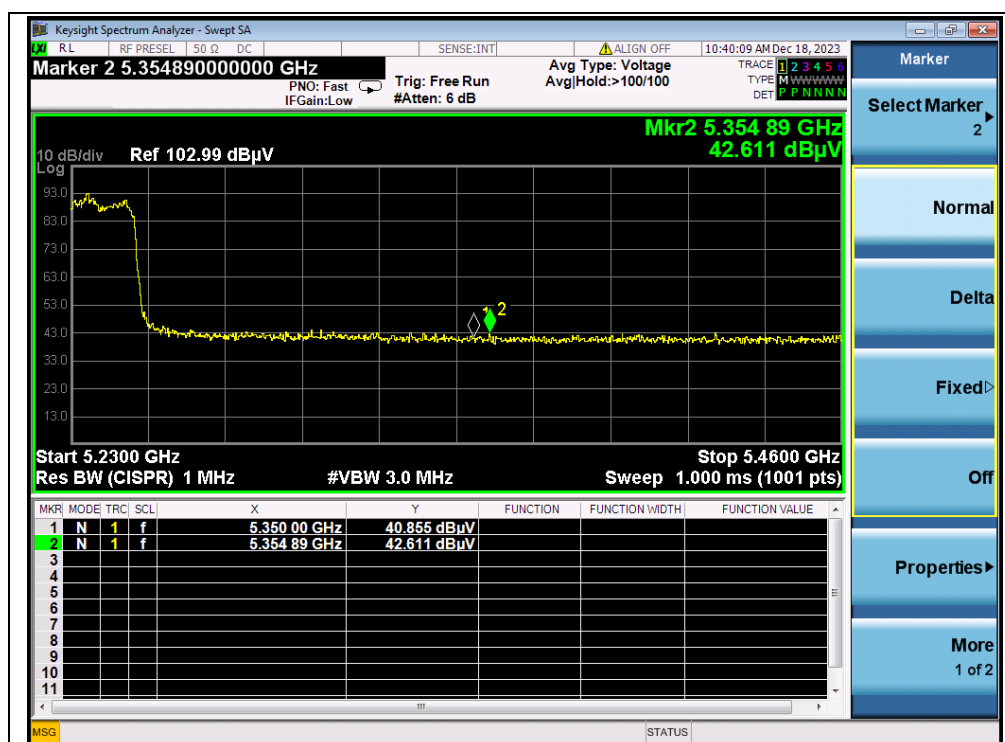
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
38	5150.00	PK	46.56	-19.54	32.20	59.22	74	PASS
38	5148.60	AV	35.52	-19.54	32.20	48.18	54	PASS
46	5354.89	PK	42.61	-19.54	32.20	55.27	74	PASS
46	5350.98	AV	31.41	-19.54	32.20	44.07	54	PASS
151	5725.00	PK	50.59	-19.01	32.20	63.78	122.23	PASS
159	5855.00	PK	42.88	-19.01	32.20	56.07	110.83	PASS



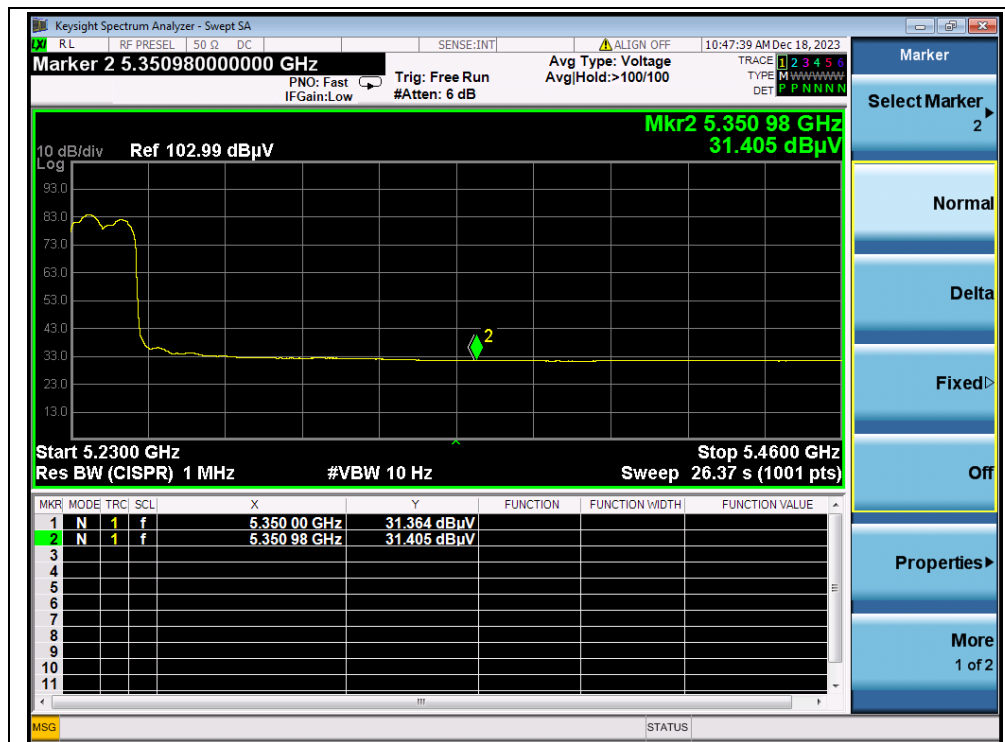
(PEAK, Channel 38, 802.11ax (HEW40))



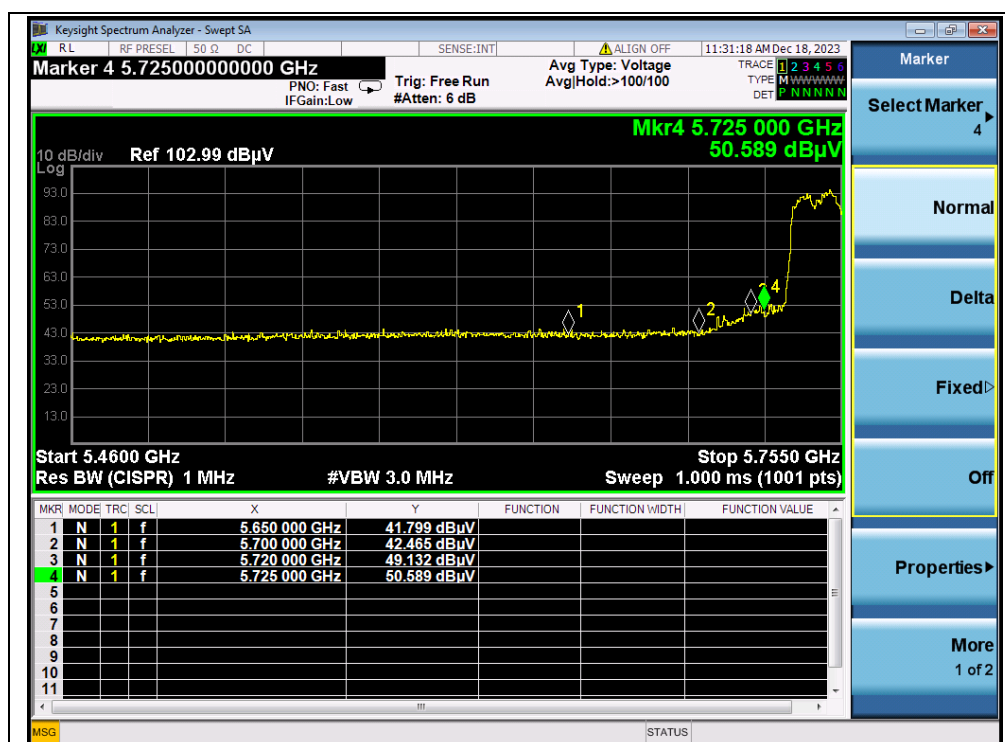
(AVERAGE, Channel 38, 802.11ax (HEW40))



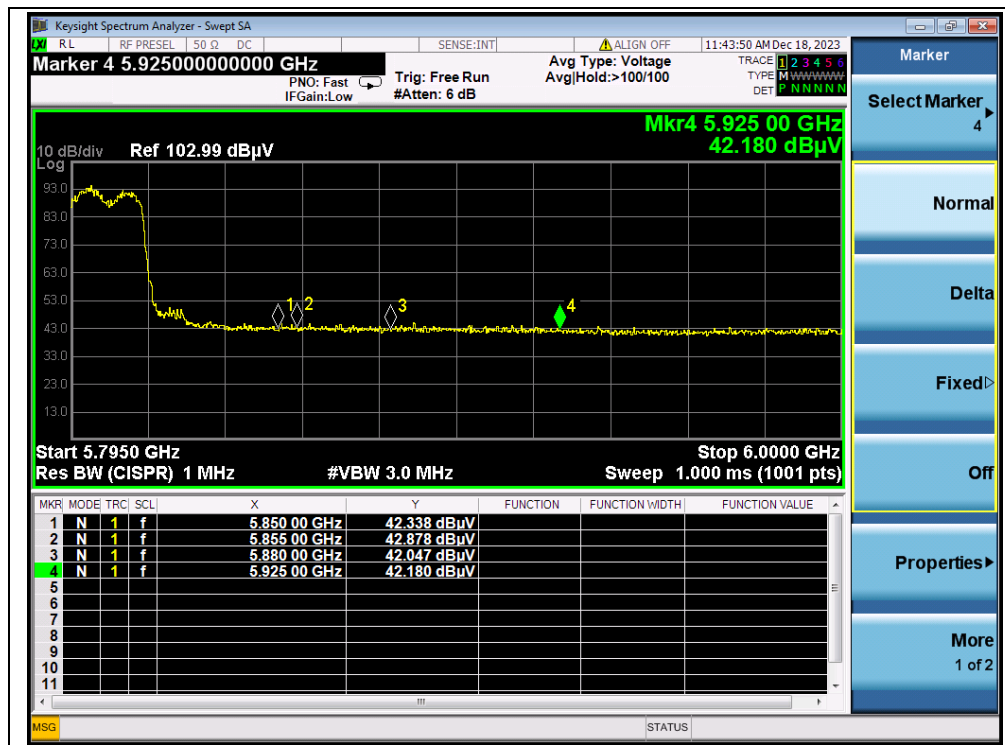
(PEAK, Channel 46, 802.11ax (HEW40))



(AVERAGE, Channel 46, 802.11ax (HEW40))



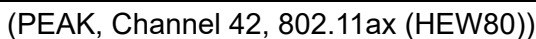
(PEAK, Channel 151, 802.11ax (HEW40))

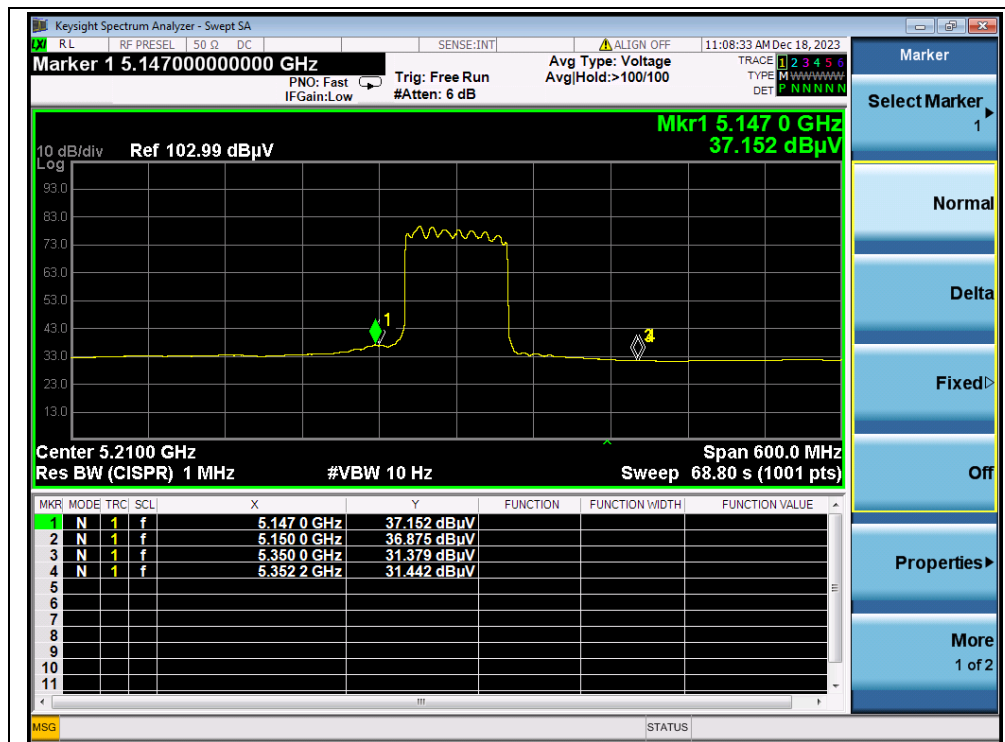


(PEAK, Channel 159, 802.11ax (HEW40))

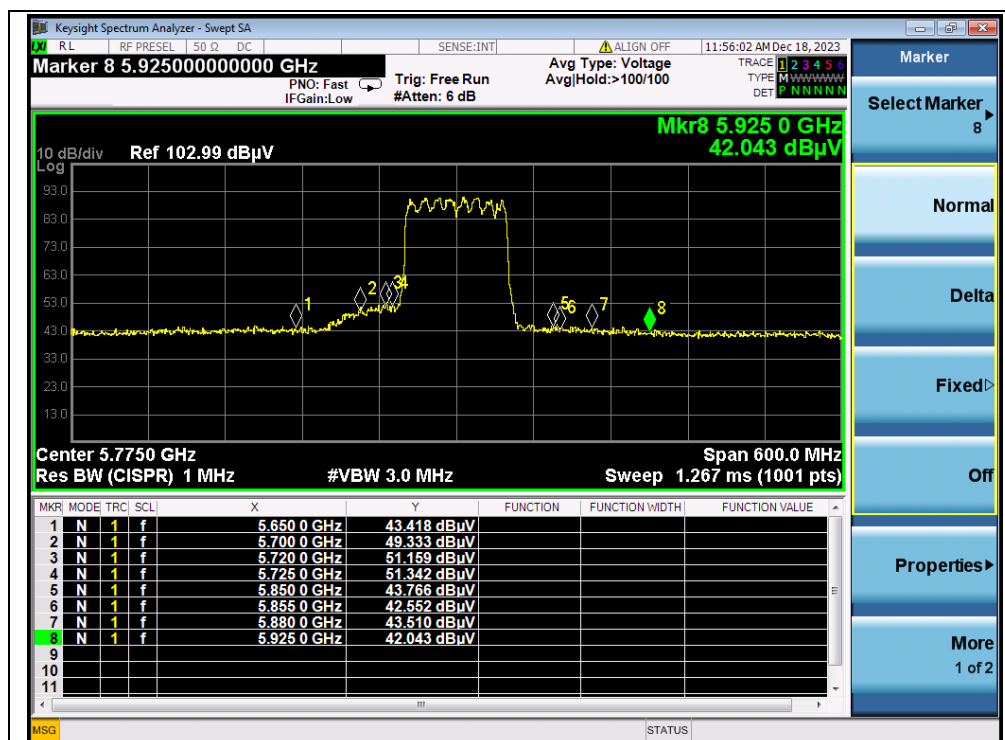


Channel	Frequency (MHz)	Detector	Receiver Reading	A _T	A _{Factor}	Max. Emission	Limit	Verdict
		PK/ AV	U _R (dBμV)	(dB)	(dB@3m)	E (dBμV/m)	(dBμV/m)	
42	5150.00	PK	48.16	-19.54	32.20	60.82	74	PASS
42	5147.00	AV	37.15	-19.54	32.20	49.81	54	PASS
42	5357.60	PK	42.99	-19.54	32.20	55.65	74	PASS
42	5350.00	AV	31.38	-19.54	32.20	44.04	54	PASS
155	5725.00	PK	51.34	-19.01	32.20	64.53	122.23	PASS
155	5850.00	PK	43.77	-19.01	32.20	56.96	122.23	PASS





(AVERAGE, Channel 42, 802.11ax (HEW80))



(PEAK, Channel 155, 802.11ax (HEW80))



A.8. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

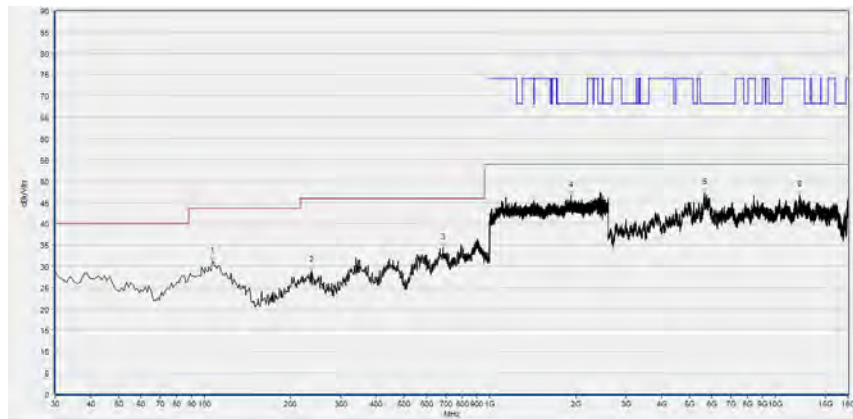
Field strength of fundamental:

Frequency (MHz)	Reading_Peak (dB μ V/m)	Antenna Factor (dB)	Path Loss (dB)	Final_Peak (dB μ V/m)	Antenna Polarity
5171.10	99.80	32.20	-19.54	112.46	Horizontal

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

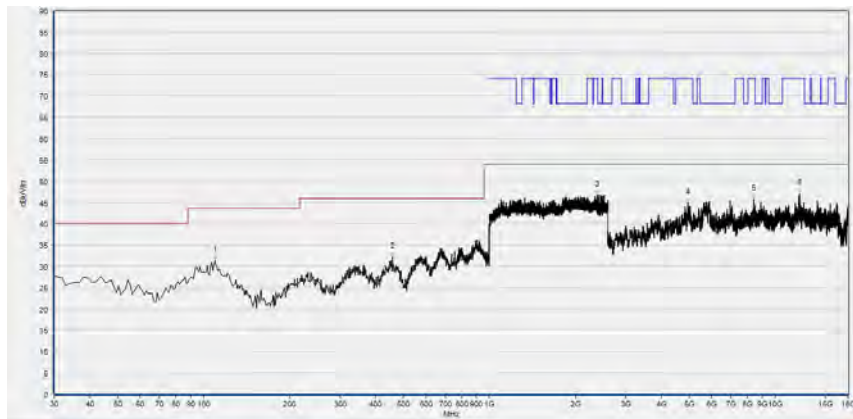
**802.11a Mode**

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.580	29.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
686.690	34.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1926.933	46.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5639.960	47.32	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12197.280	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

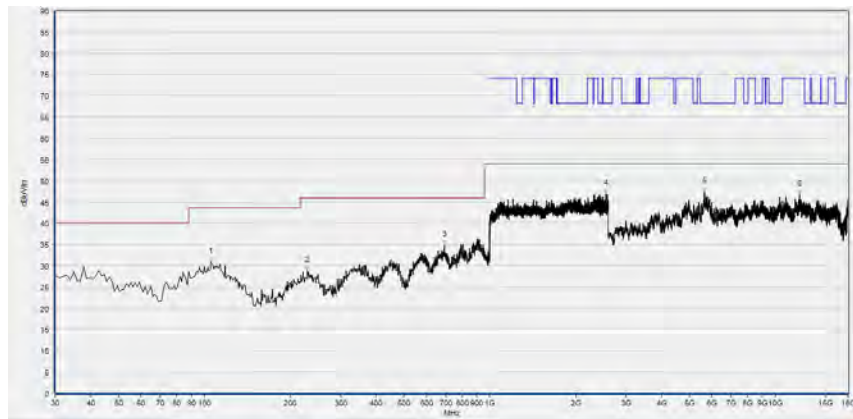
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
457.770	32.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2384.000	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6955.120	45.35	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8411.960	45.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12197.280	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

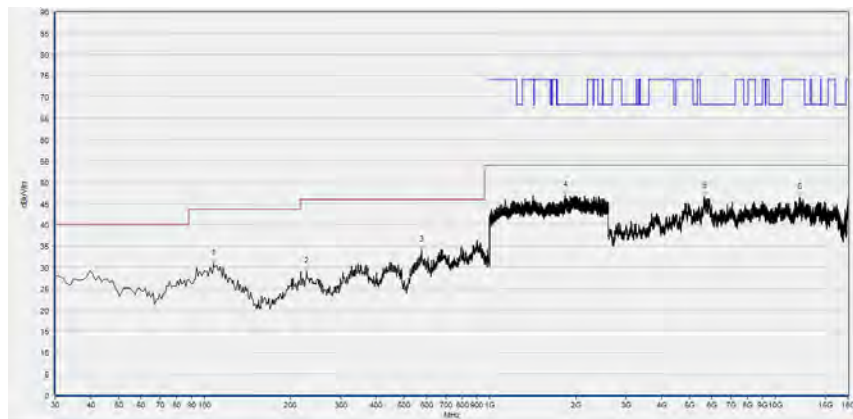
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	30.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
229.820	28.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
694.450	34.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2550.400	47.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5661.520	47.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12191.120	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

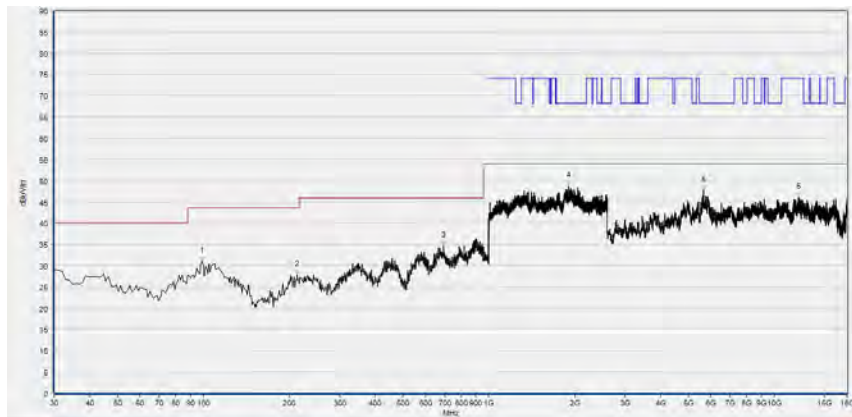
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	30.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
227.880	29.07	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
577.080	34.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1835.733	46.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.120	46.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12148.000	46.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

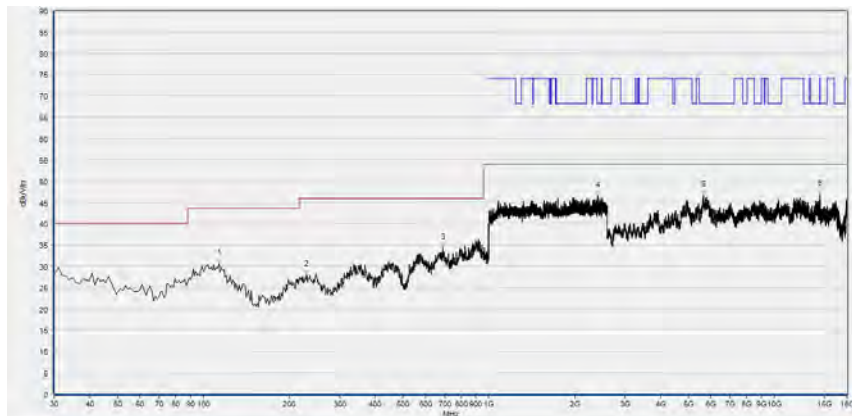
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
98.870	31.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
213.330	27.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
695.420	34.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1900.800	48.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5643.040	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12166.480	46.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

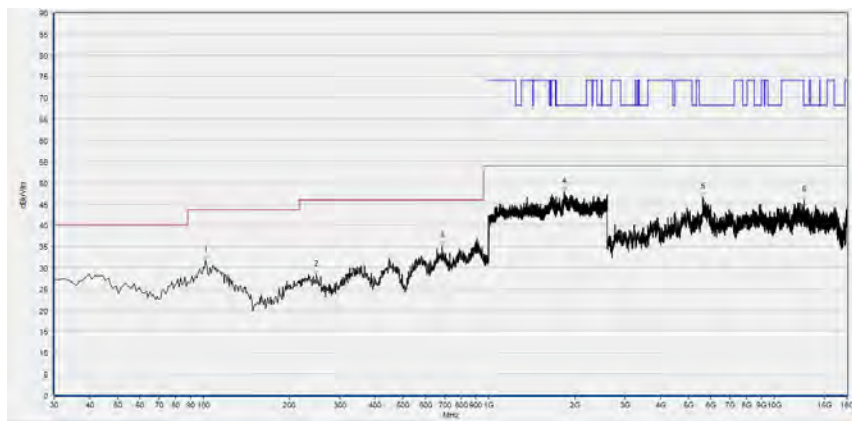
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
113.420	30.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.820	28.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
690.570	34.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.200	46.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5655.360	46.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14430.280	46.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

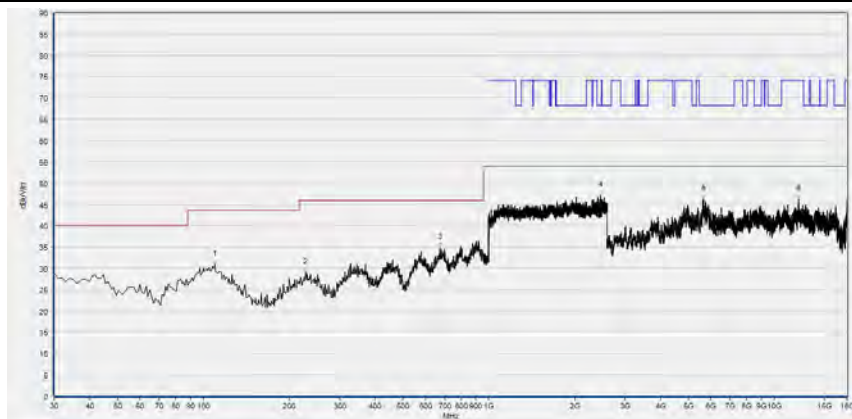
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.780	31.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
249.220	28.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
684.750	35.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1838.933	47.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5624.560	46.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12736.280	45.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

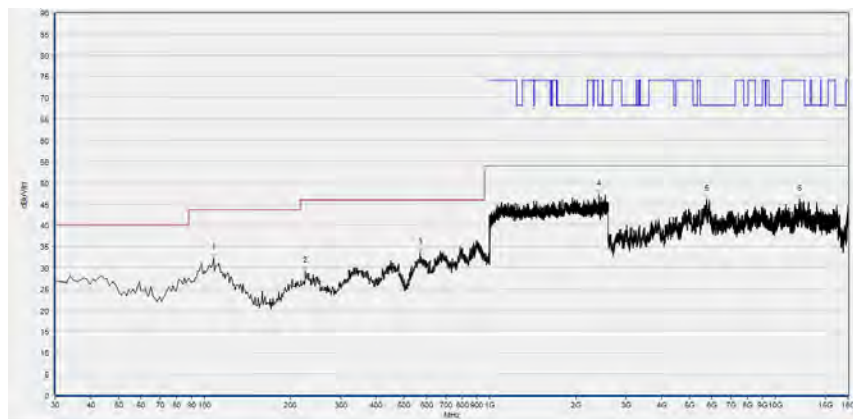


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	30.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
227.880	29.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
674.080	34.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2462.933	47.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	46.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12172.640	46.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

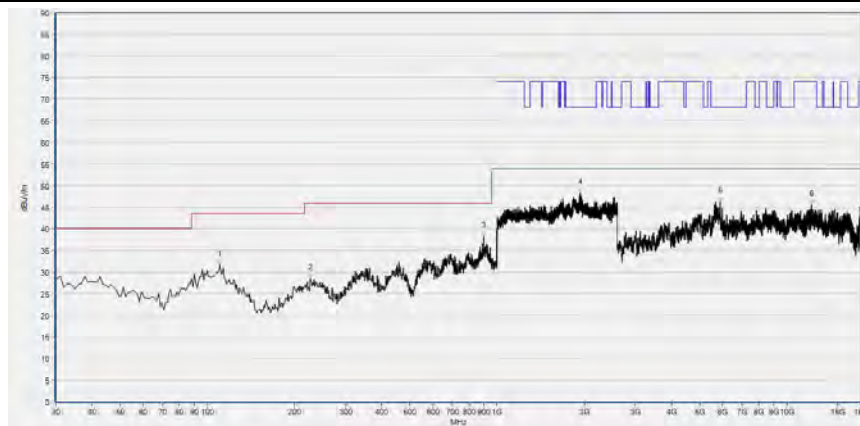


Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	32.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.940	29.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
569.320	33.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.400	47.33	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5766.240	46.08	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12157.240	46.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

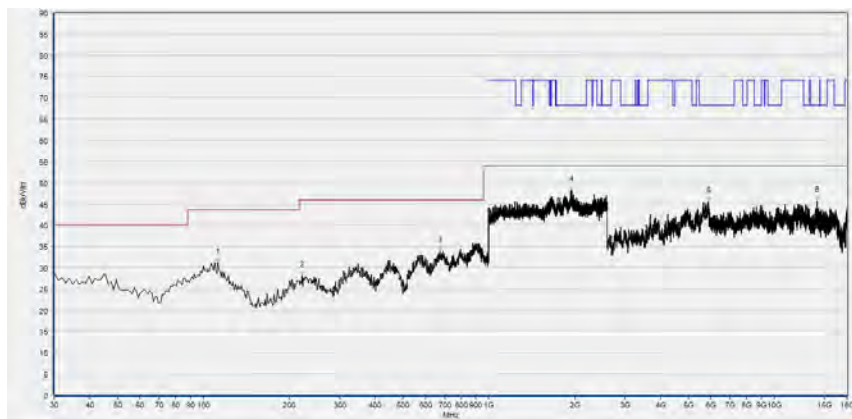
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.510	31.75	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.910	28.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
898.150	38.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1932.267	48.22	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5883.280	46.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12188.040	45.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

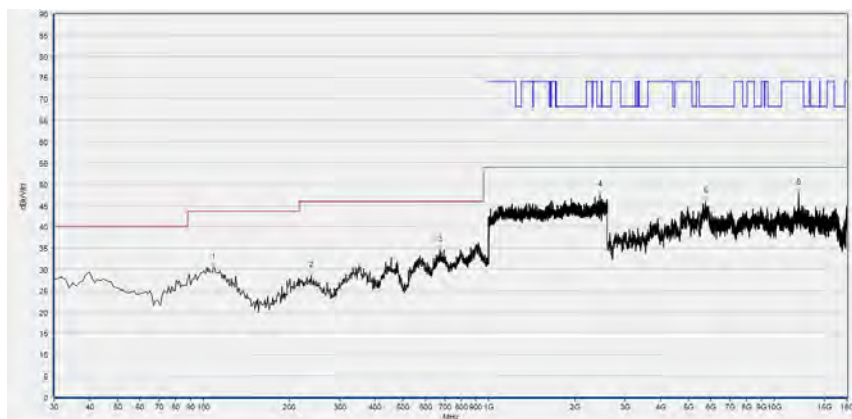
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
112.450	31.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.090	28.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
674.080	33.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1942.933	48.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5880.200	45.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14091.480	45.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

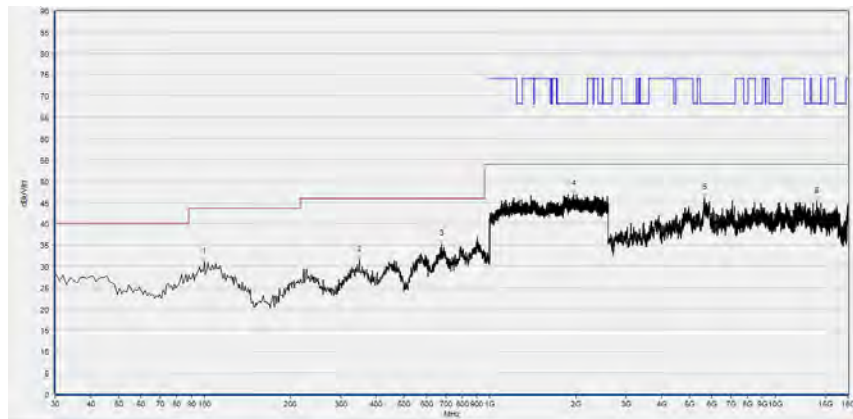


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	30.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.550	28.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
674.080	34.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2456.533	47.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5735.440	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12154.160	47.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

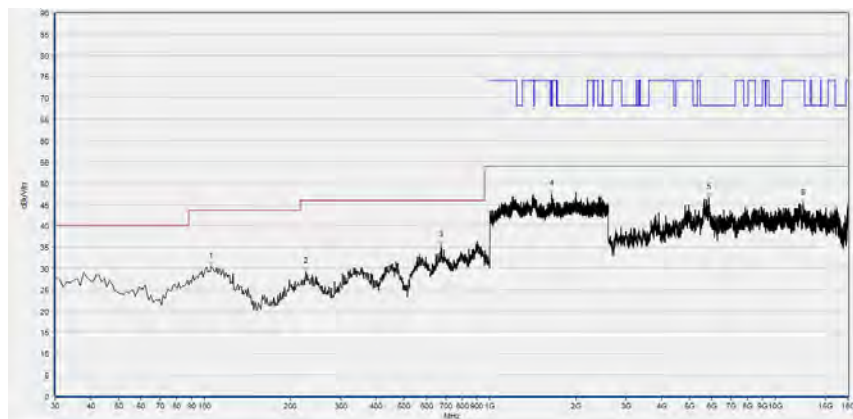
**802.11n (HT40) mode**

Plot for Channel 38



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.840	30.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
349.130	31.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
676.020	35.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1968.533	46.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5664.600	46.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13989.840	45.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

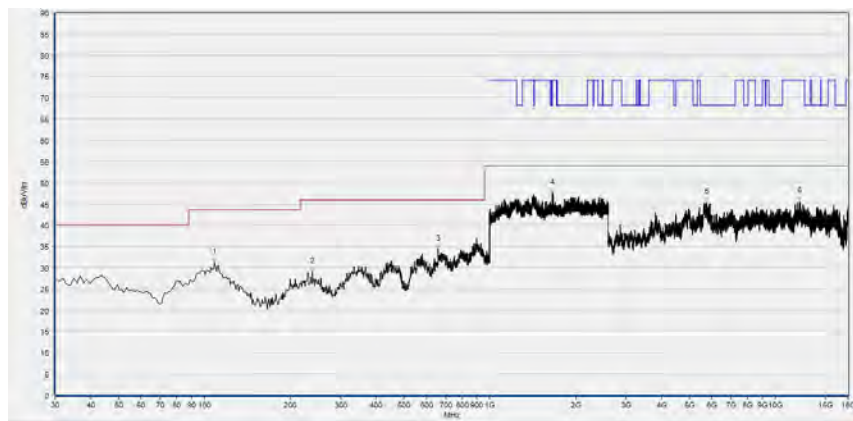
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	30.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.910	29.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
675.050	35.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1644.800	47.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5858.640	46.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12529.920	45.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

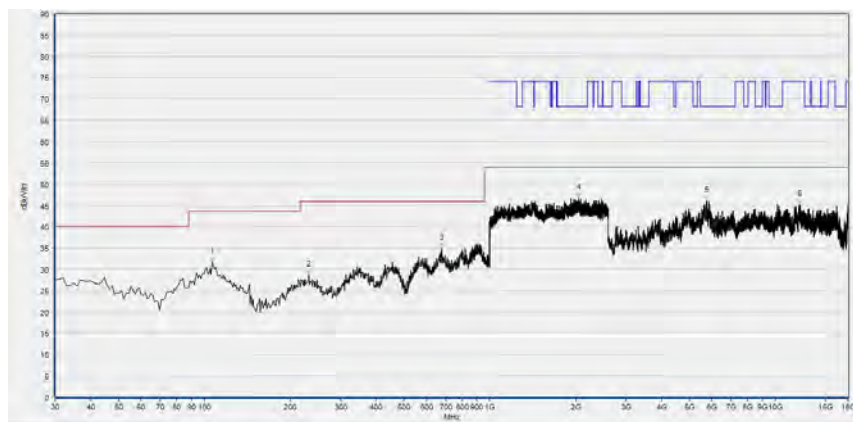
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	31.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.520	29.07	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
659.530	34.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1658.667	47.57	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5760.080	45.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12154.160	45.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

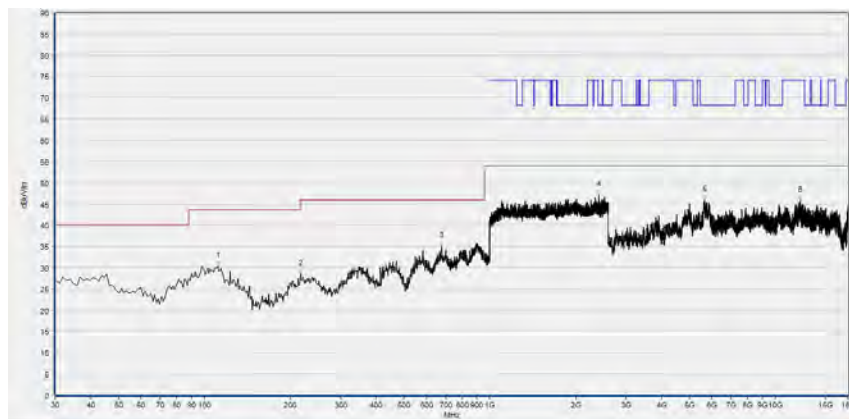
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.630	31.67	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
232.730	28.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
678.930	34.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2050.133	46.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5738.520	46.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12141.840	45.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

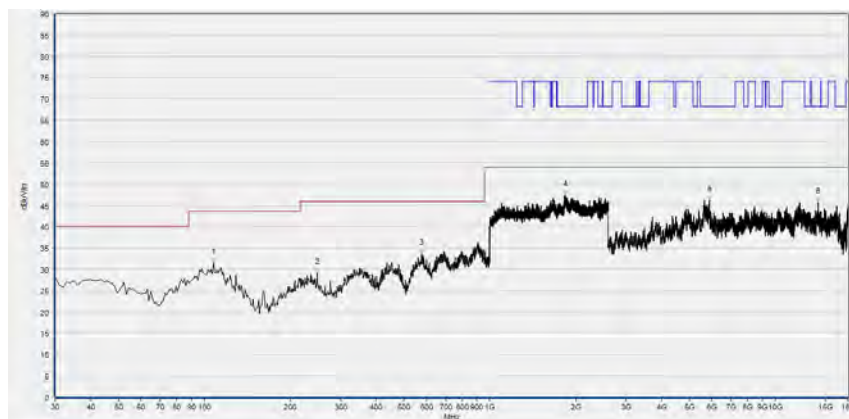
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	30.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
217.210	28.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
678.930	34.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2412.267	47.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.200	45.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12218.840	45.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

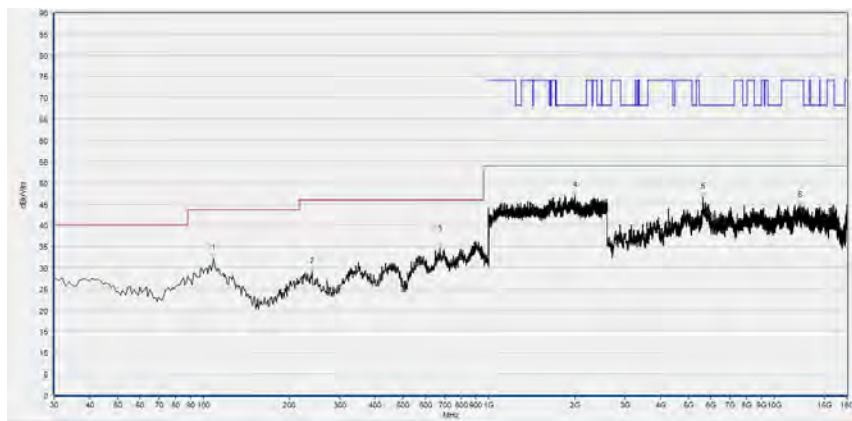
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.600	31.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
248.250	29.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
576.110	33.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1839.467	47.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5867.880	46.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14094.560	45.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

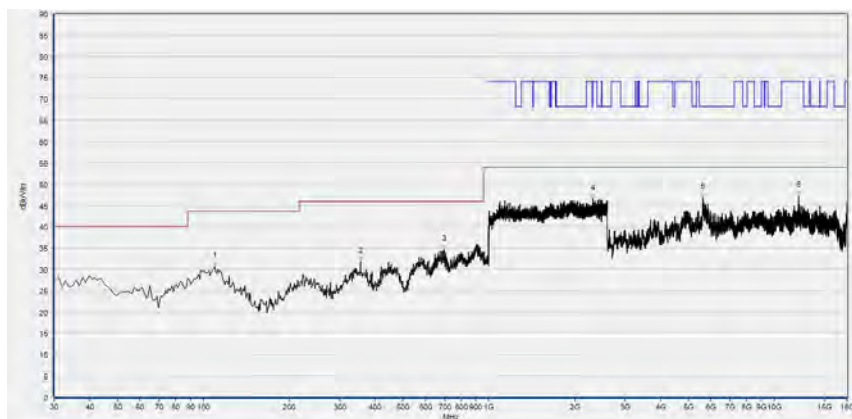
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
108.570	32.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
240.490	29.07	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
674.080	34.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1998.400	46.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5627.640	46.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12280.440	44.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

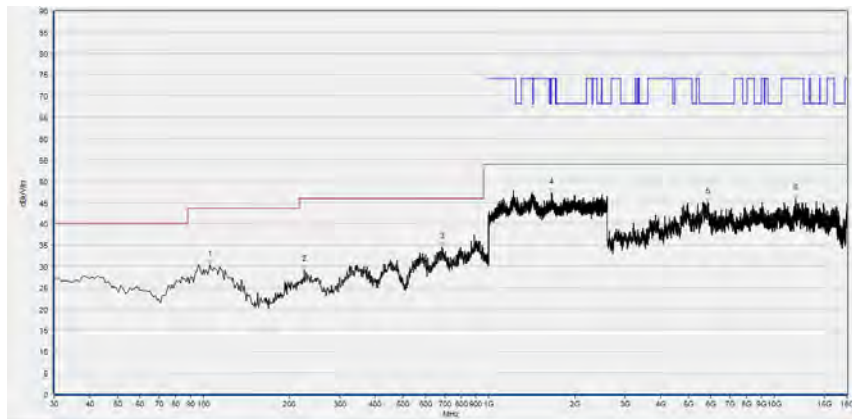


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	30.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
354.950	31.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
697.360	34.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2316.800	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5630.720	46.95	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12191.120	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

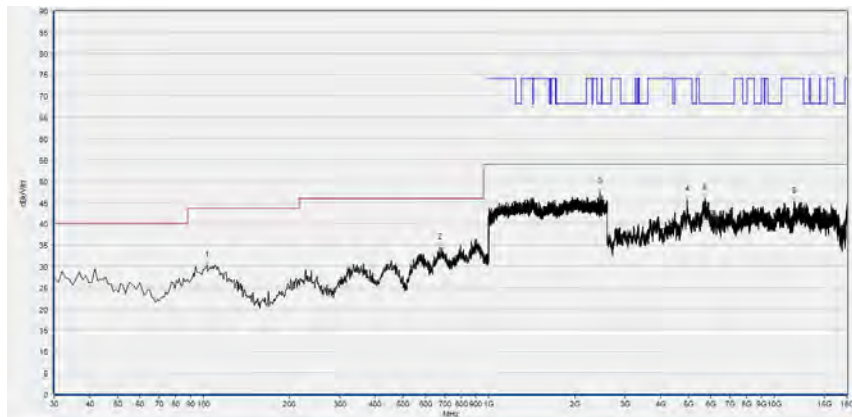
**802.11ac (VHT80) Mode**

Plot for Channel 42



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.660	30.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.940	29.22	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
684.750	34.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1659.733	47.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5855.560	45.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11880.040	45.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

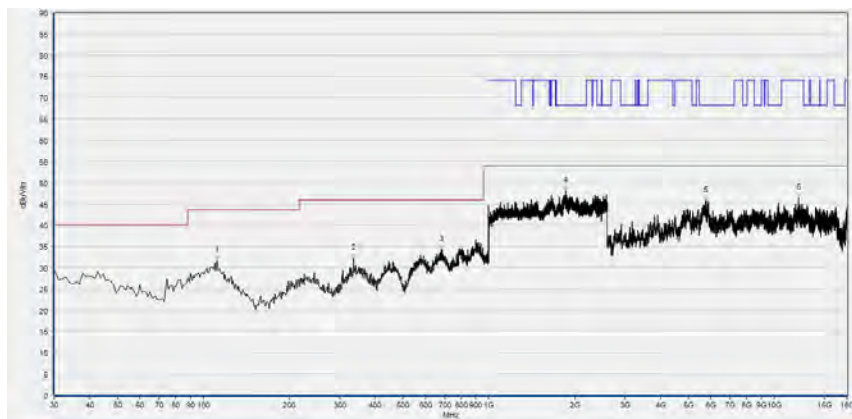
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.750	30.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
672.140	34.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2453.333	47.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4962.360	45.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5723.120	45.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11747.600	45.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

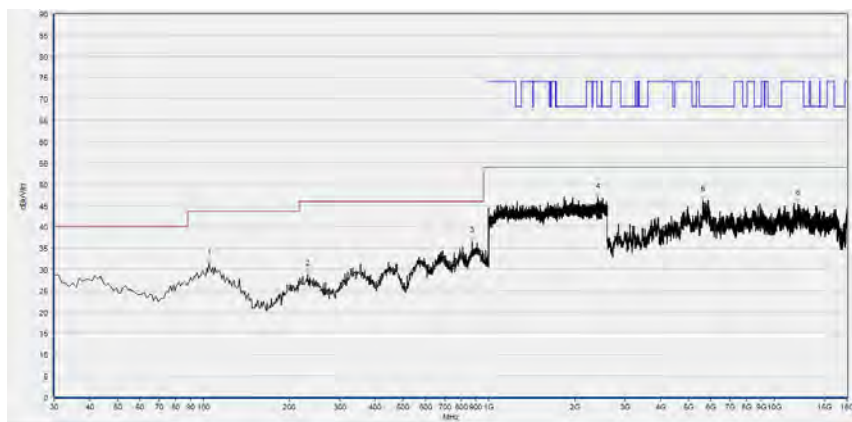
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	31.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
336.520	32.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
681.840	34.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1856.000	48.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5738.520	45.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12151.080	46.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

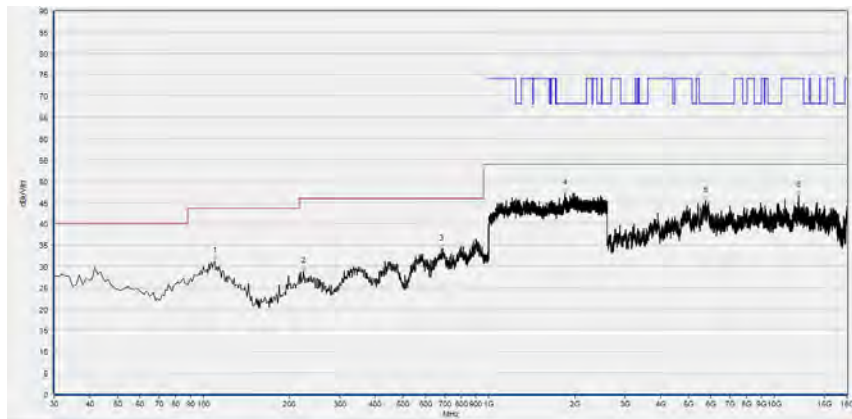


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.690	31.39	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
231.760	28.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
872.930	36.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2405.867	46.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5633.800	46.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12064.840	45.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

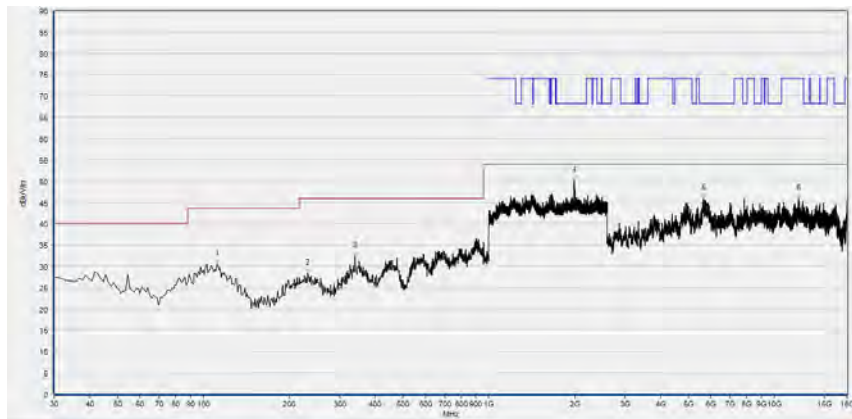
**802.11ax (HEW20) Mode**

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.540	31.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
224.000	28.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
680.870	33.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1846.933	47.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5760.080	45.39	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12163.400	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.480	30.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
231.760	28.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
340.400	32.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1992.533	50.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5667.680	45.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12166.480	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)