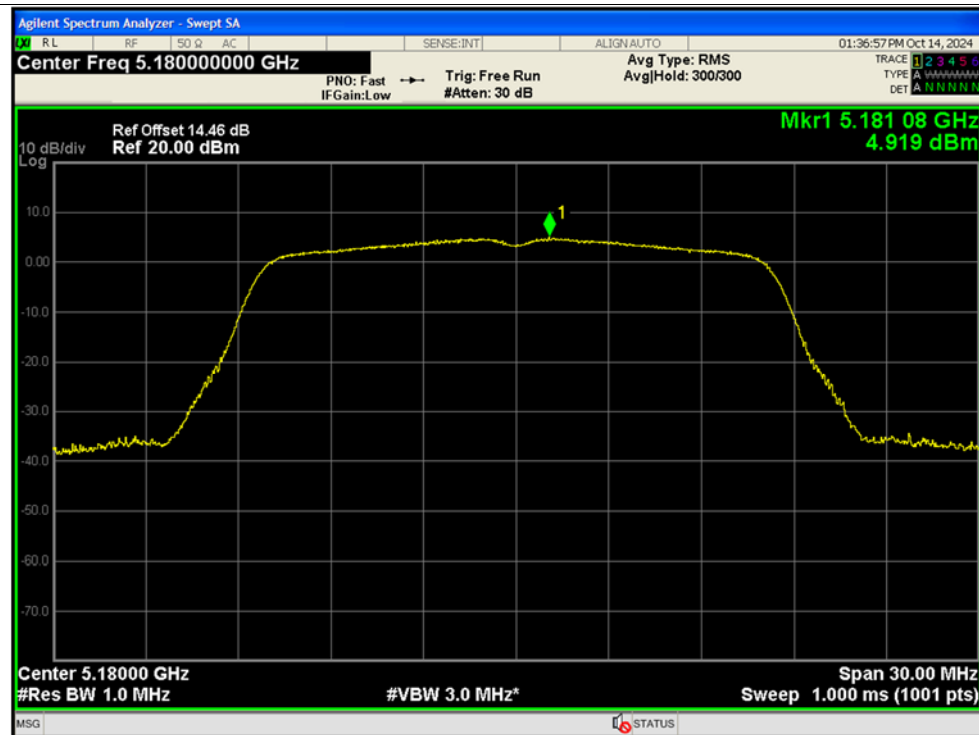


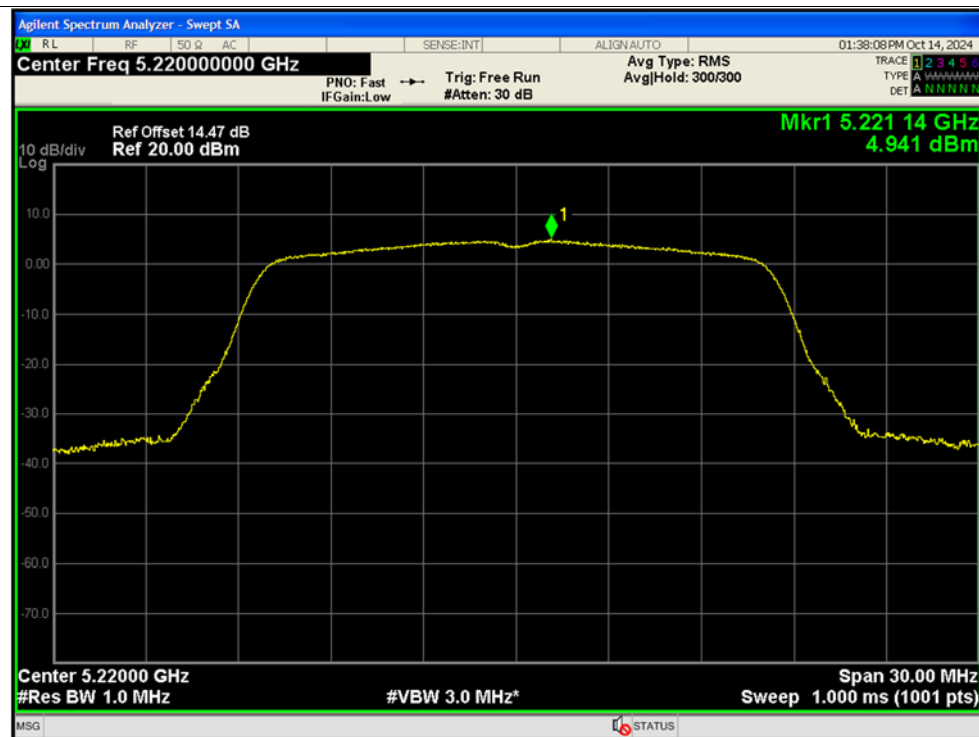


Test Graphs

PSD NVNT a 5180MHz Ant1

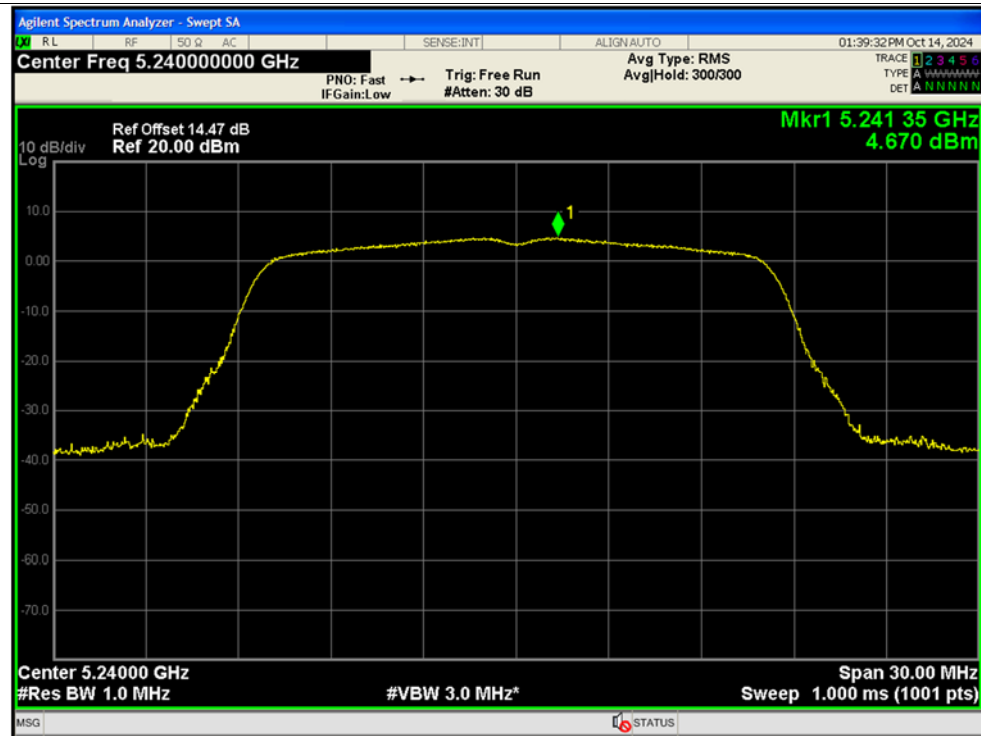


PSD NVNT a 5220MHz Ant1

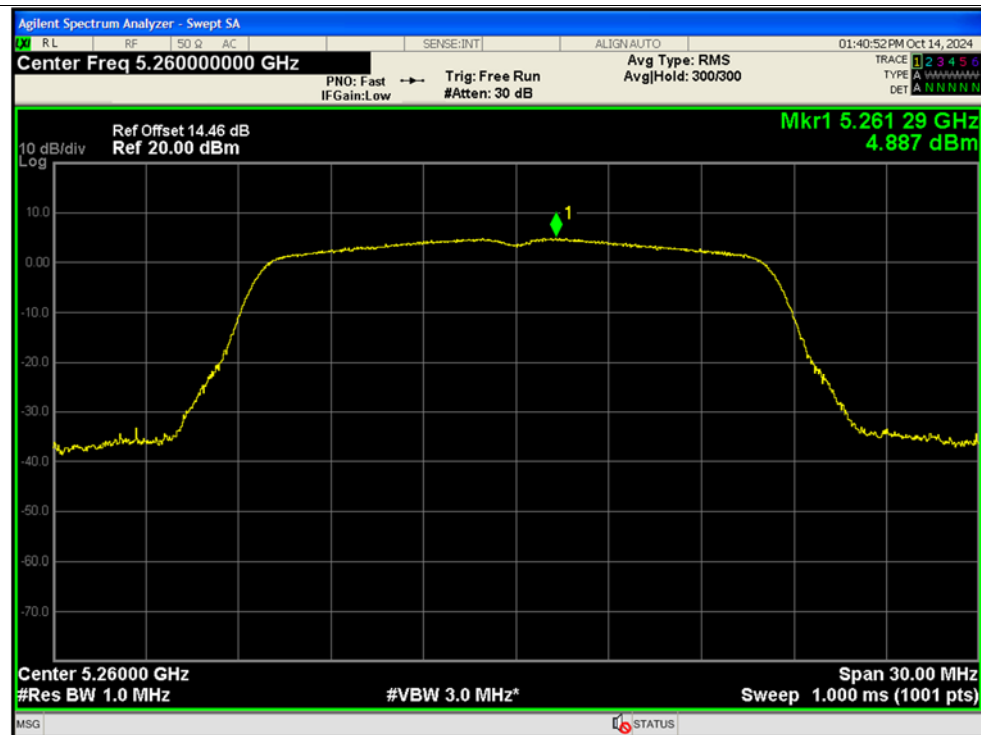




PSD NVNT a 5240MHz Ant1

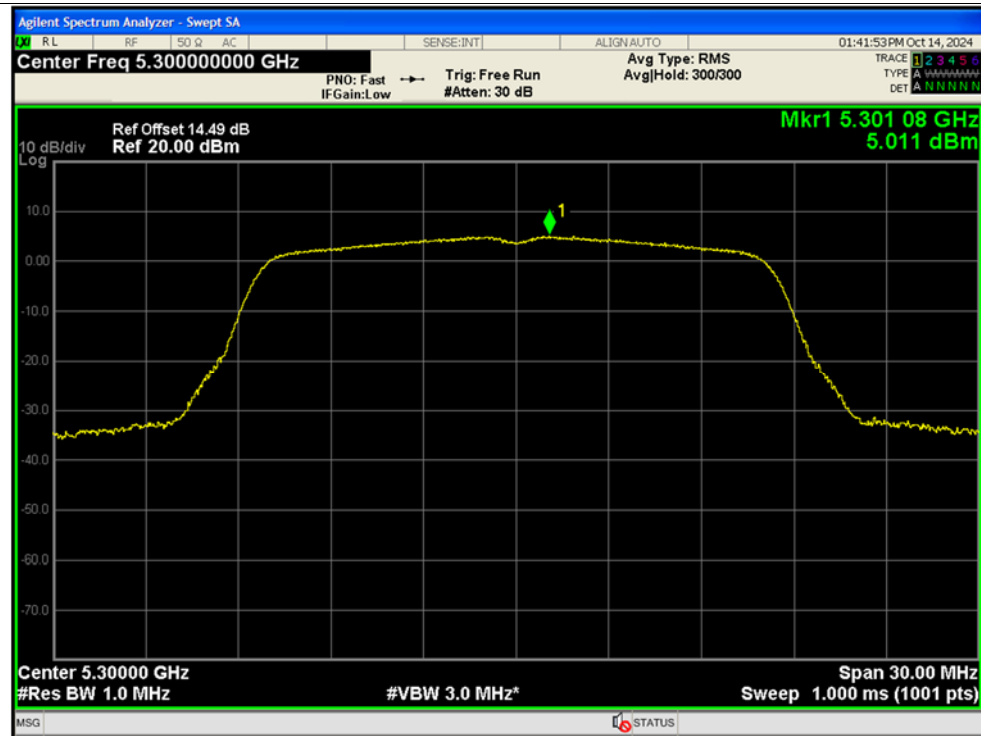


PSD NVNT a 5260MHz Ant1

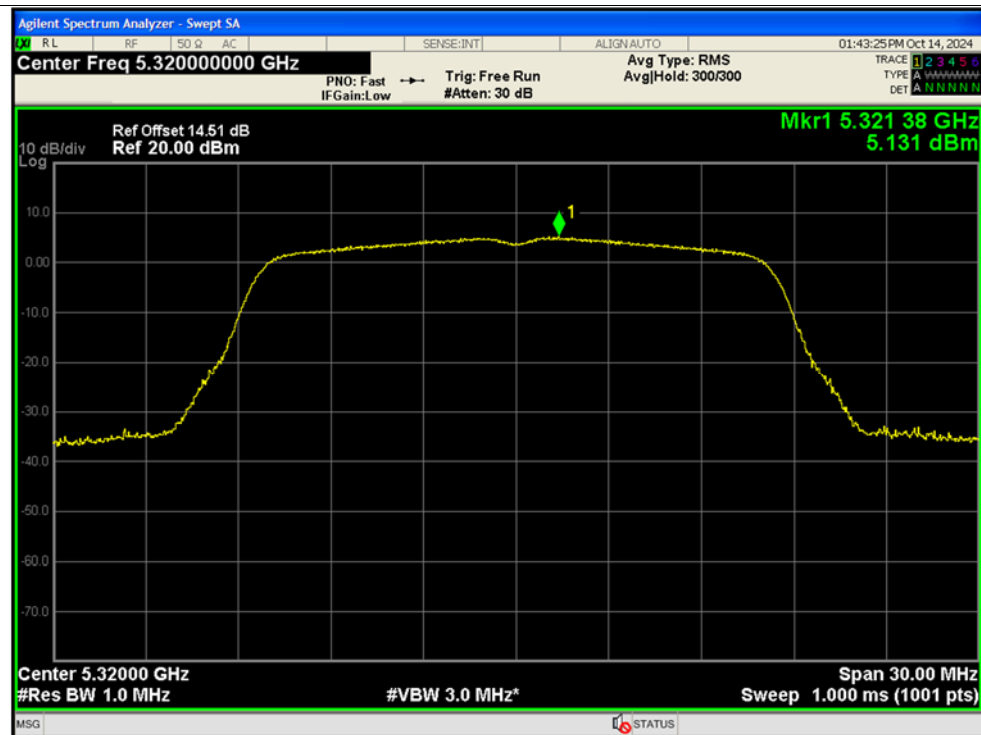




PSD NVNT a 5300MHz Ant1

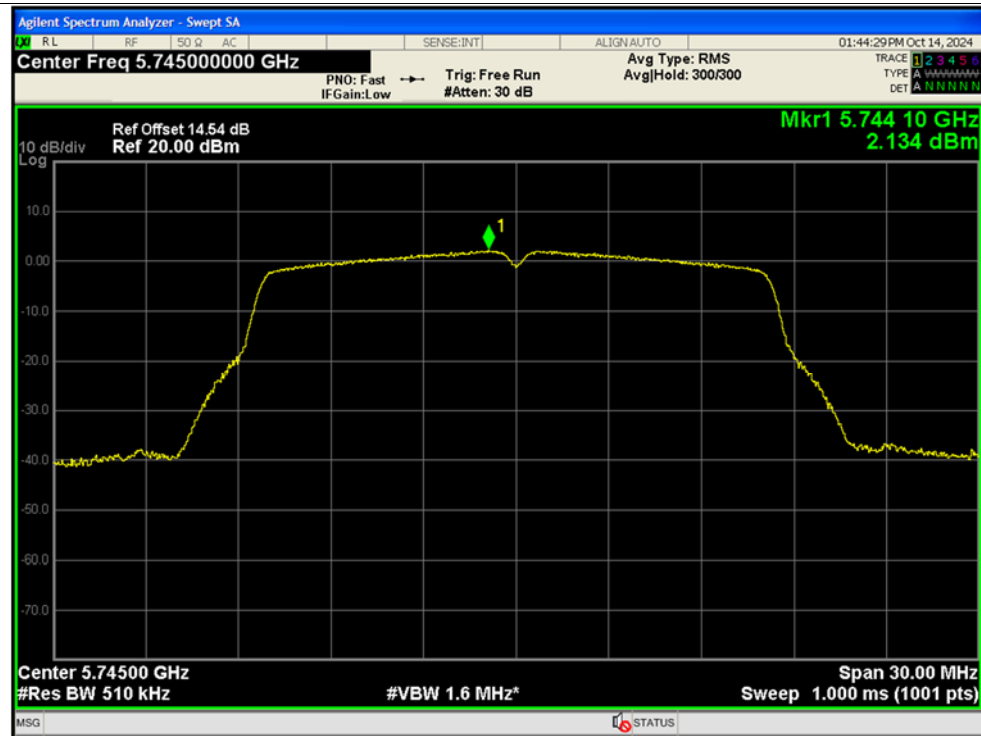


PSD NVNT a 5320MHz Ant1

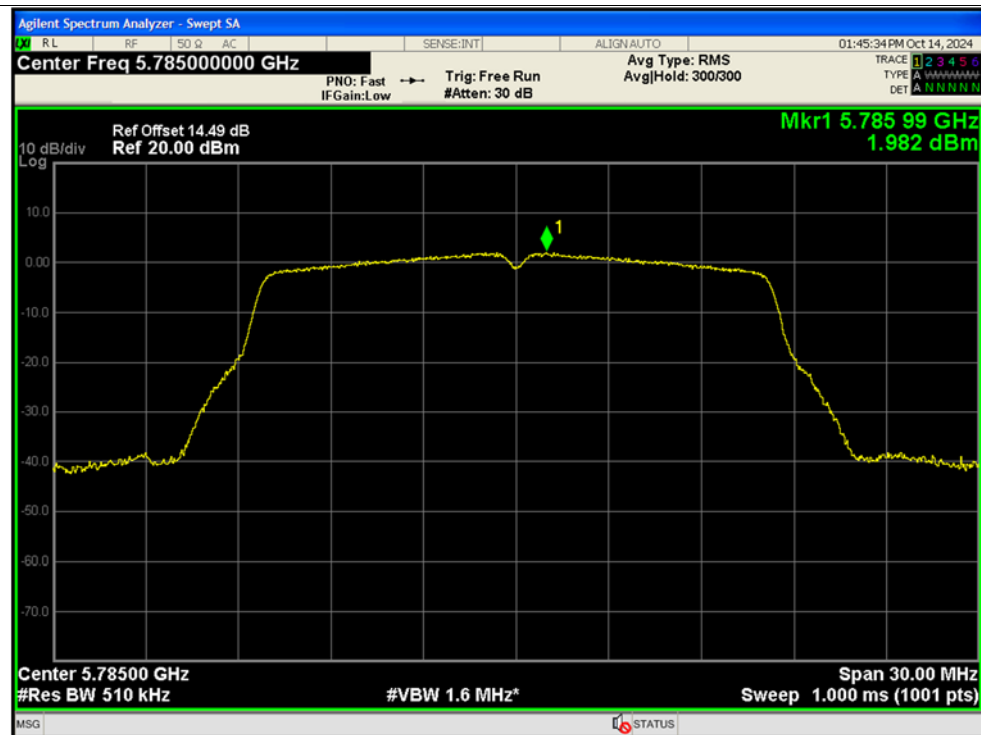




PSD NVNT a 5745MHz Ant1

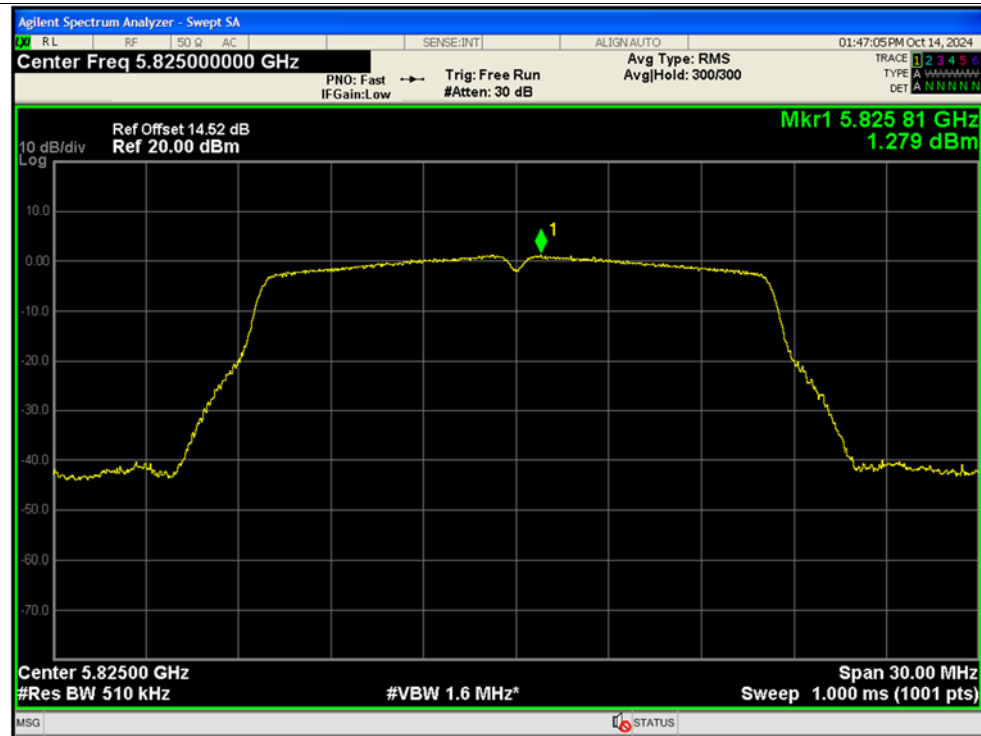


PSD NVNT a 5785MHz Ant1

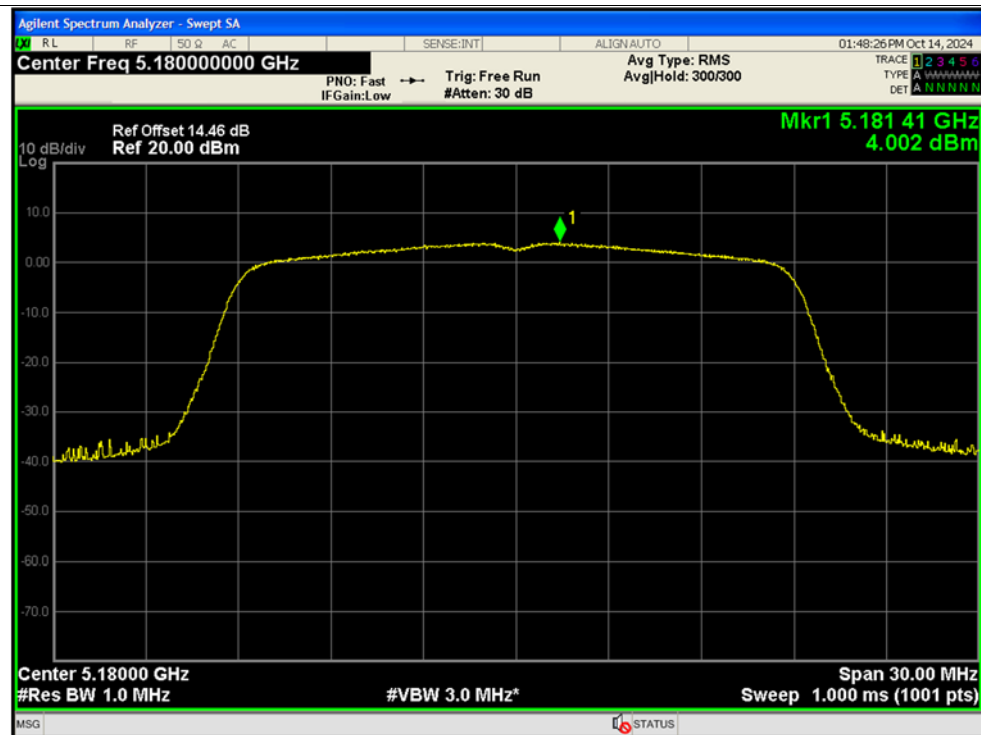




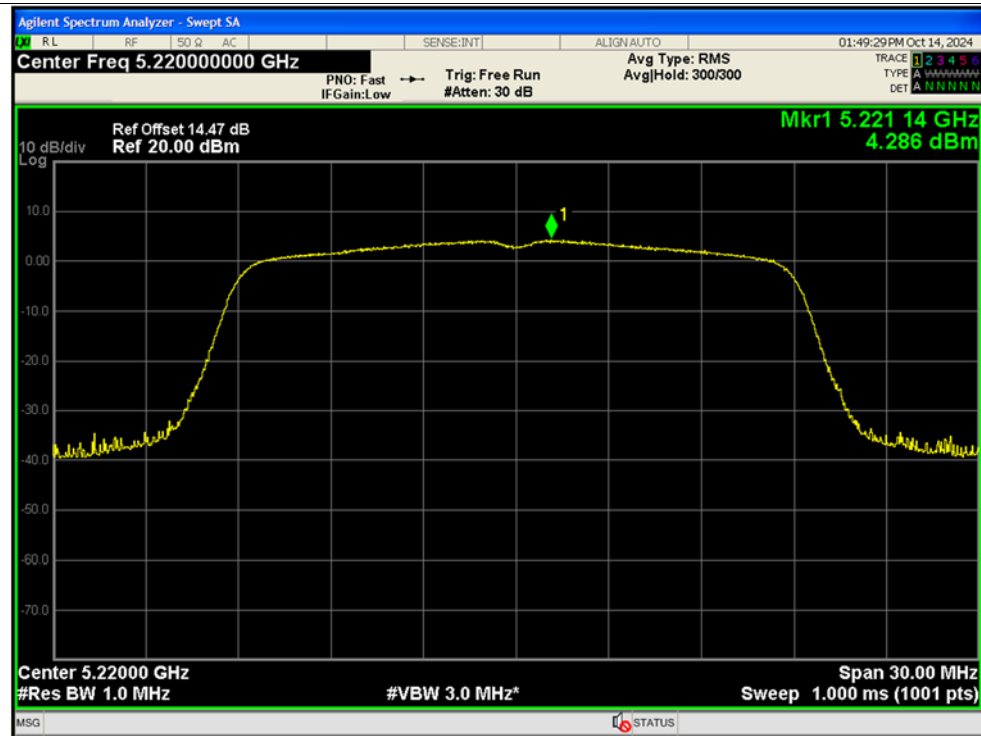
PSD NVNT a 5825MHz Ant1



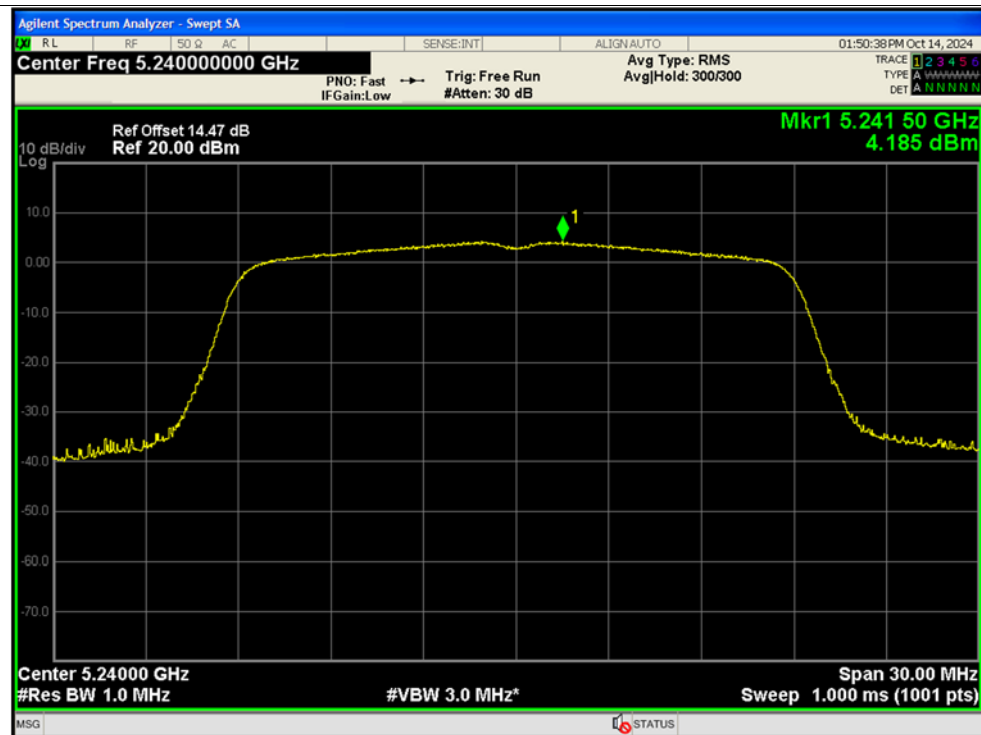
PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5220MHz Ant1

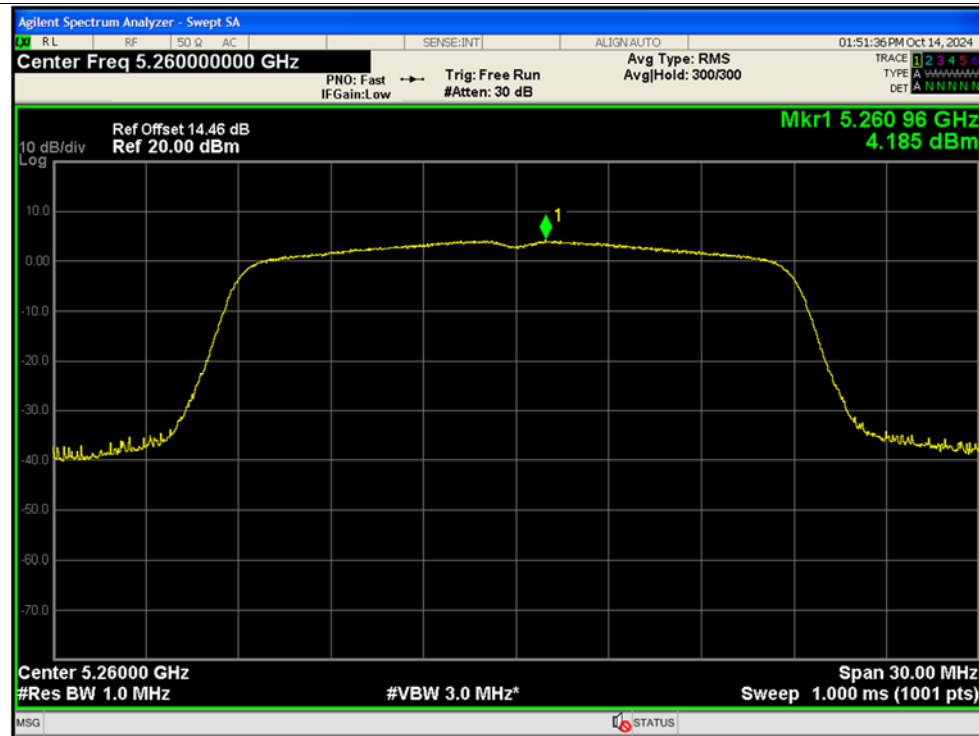


PSD NVNT n20 5240MHz Ant1

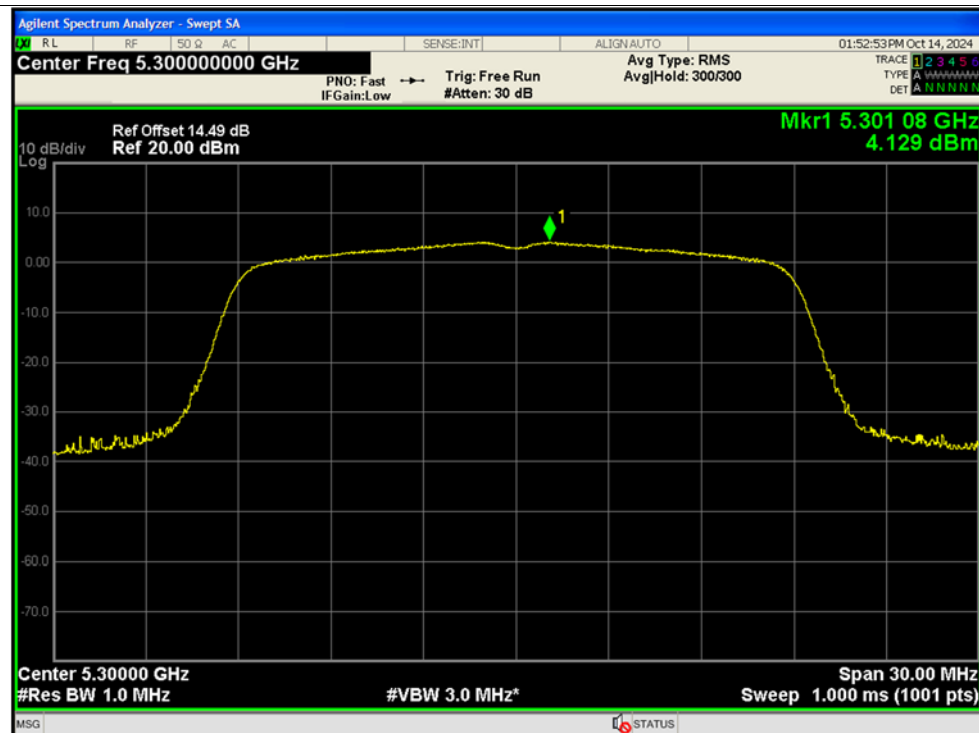




PSD NVNT n20 5260MHz Ant1

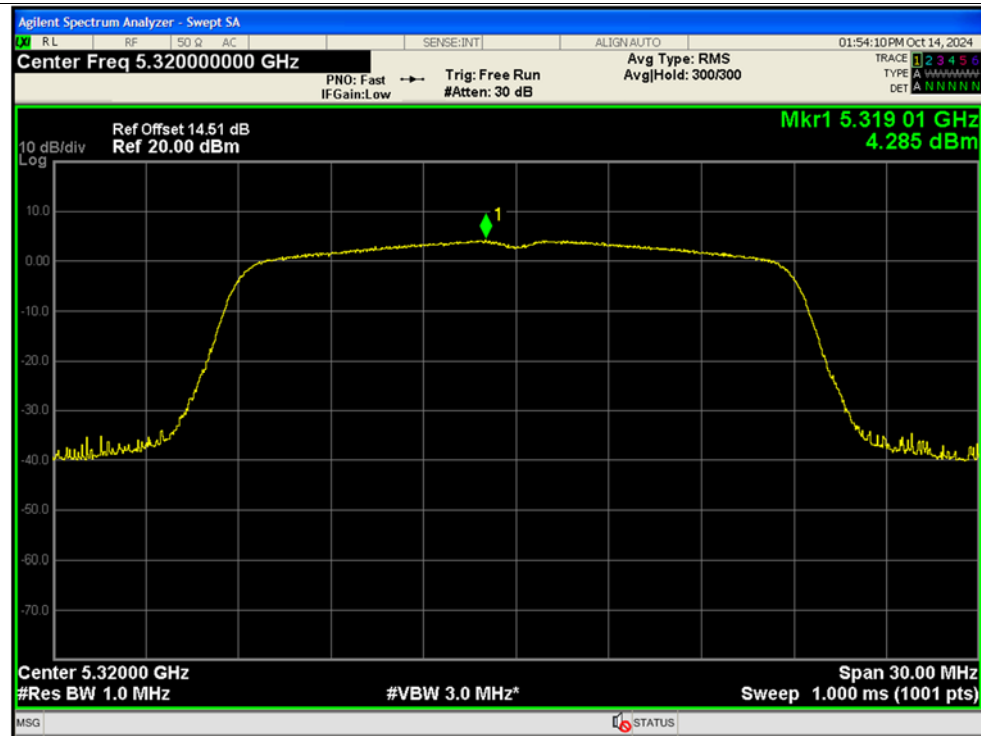


PSD NVNT n20 5300MHz Ant1

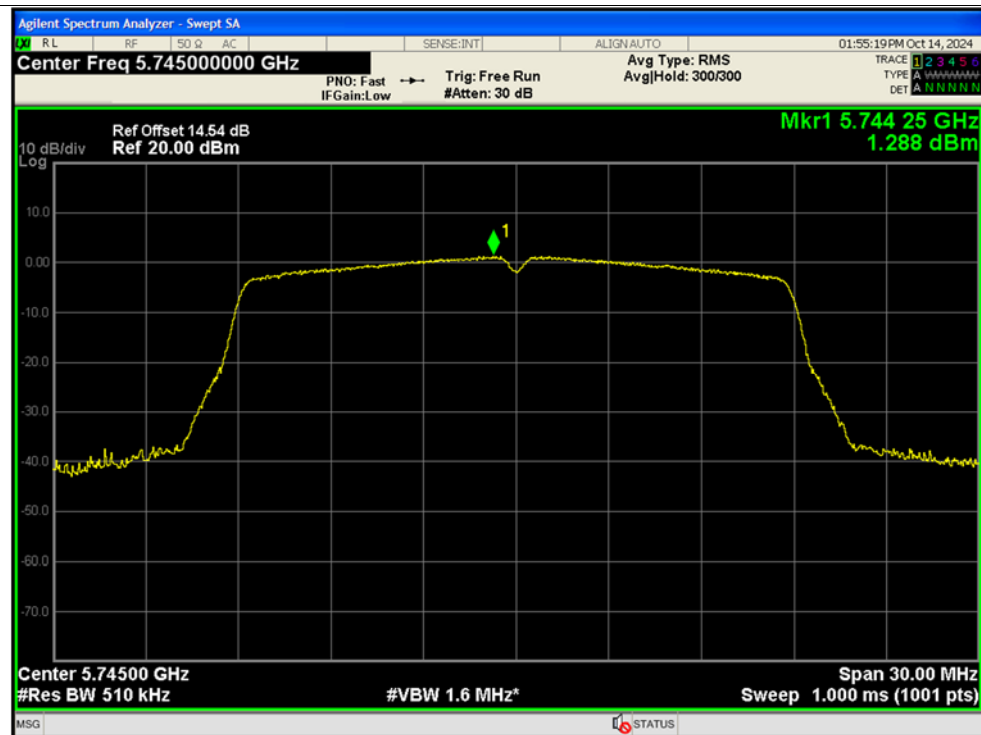




PSD NVNT n20 5320MHz Ant1

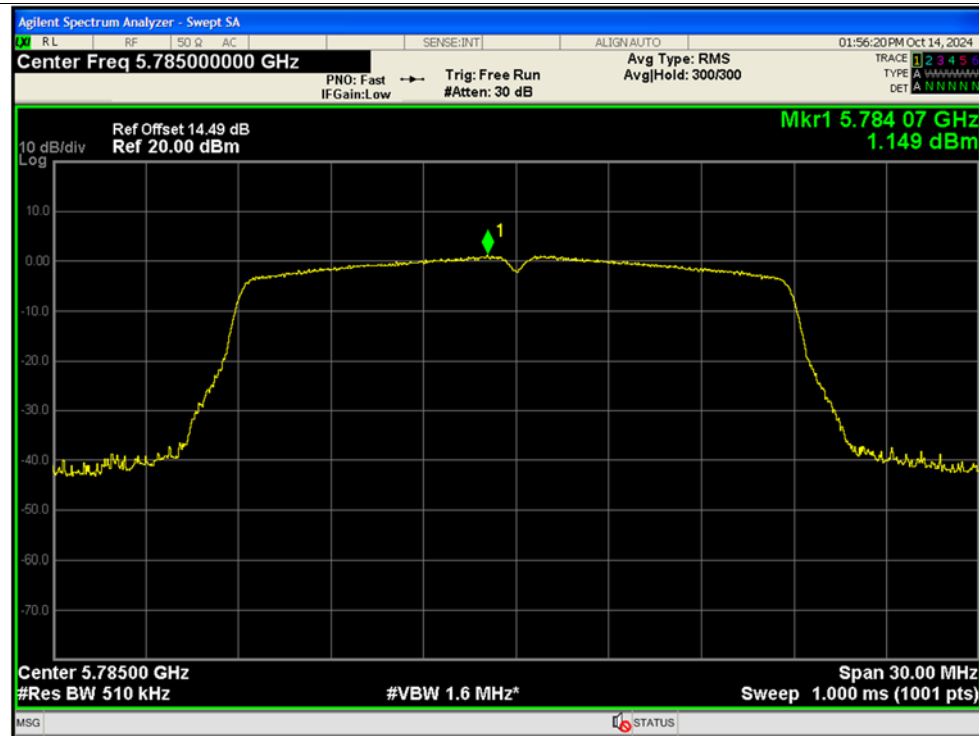


PSD NVNT n20 5745MHz Ant1

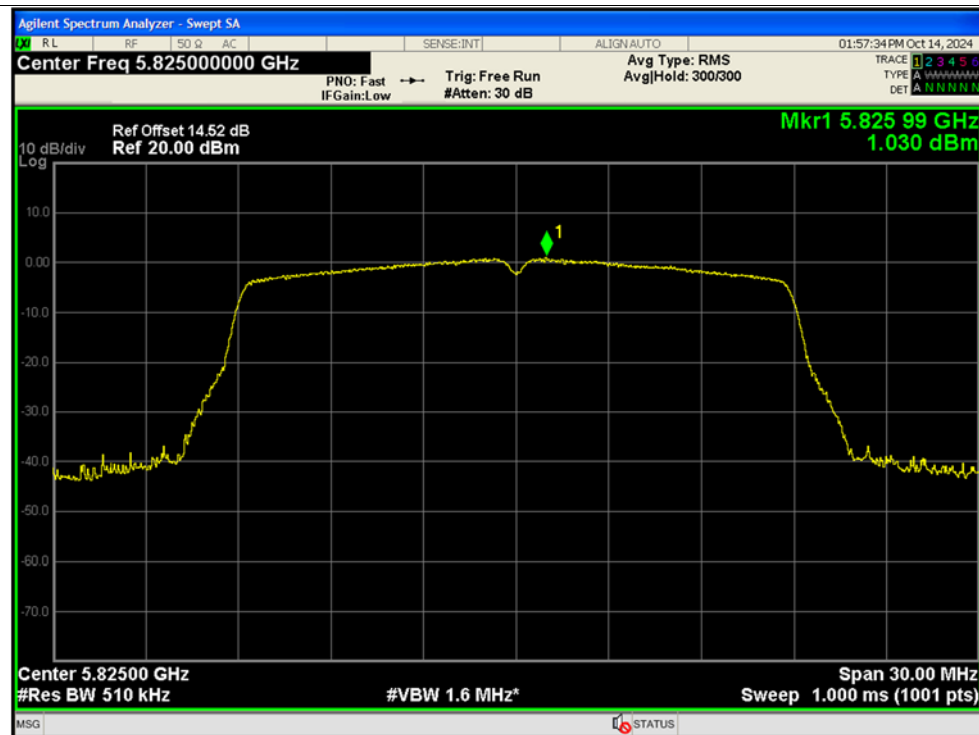




PSD NVNT n20 5785MHz Ant1

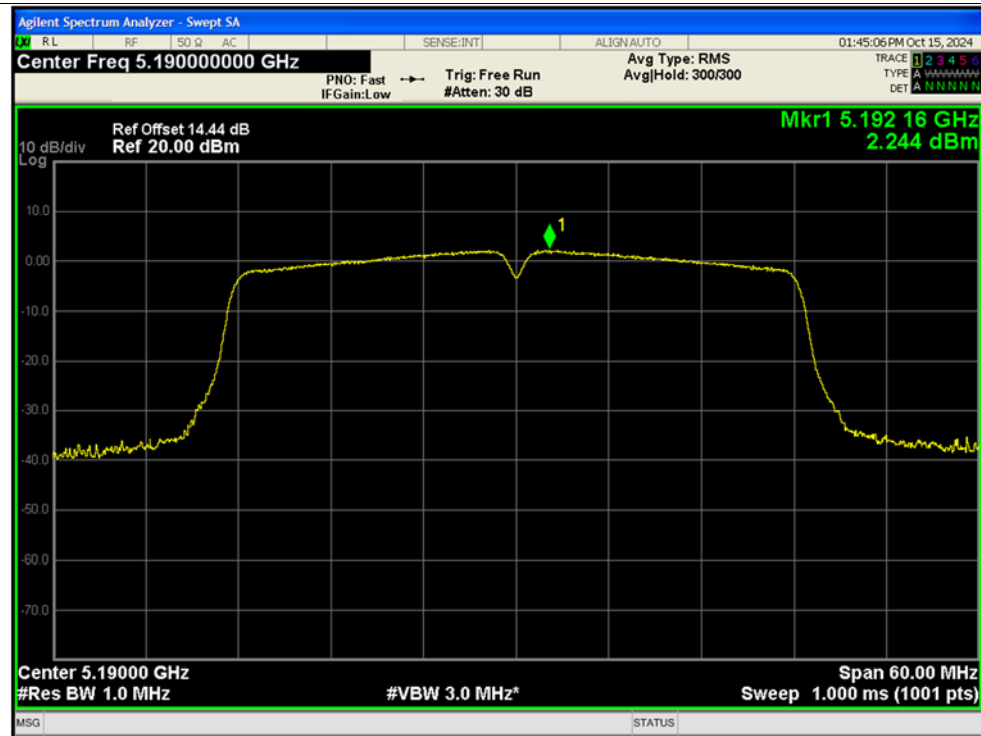


PSD NVNT n20 5825MHz Ant1

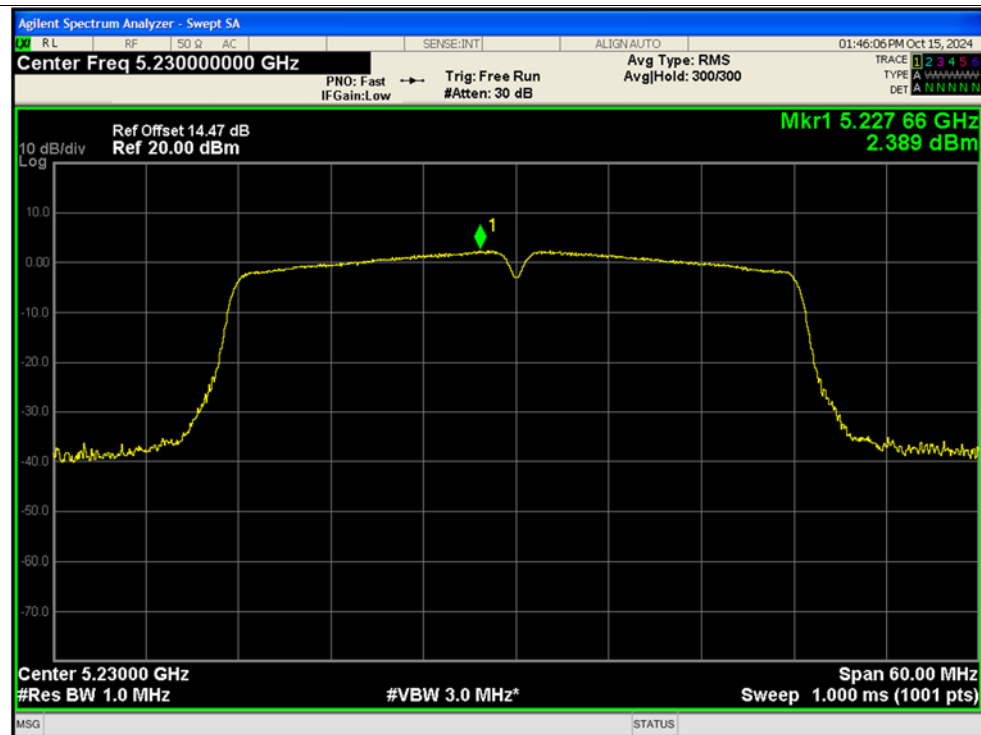




PSD NVNT n40 5190MHz Ant1

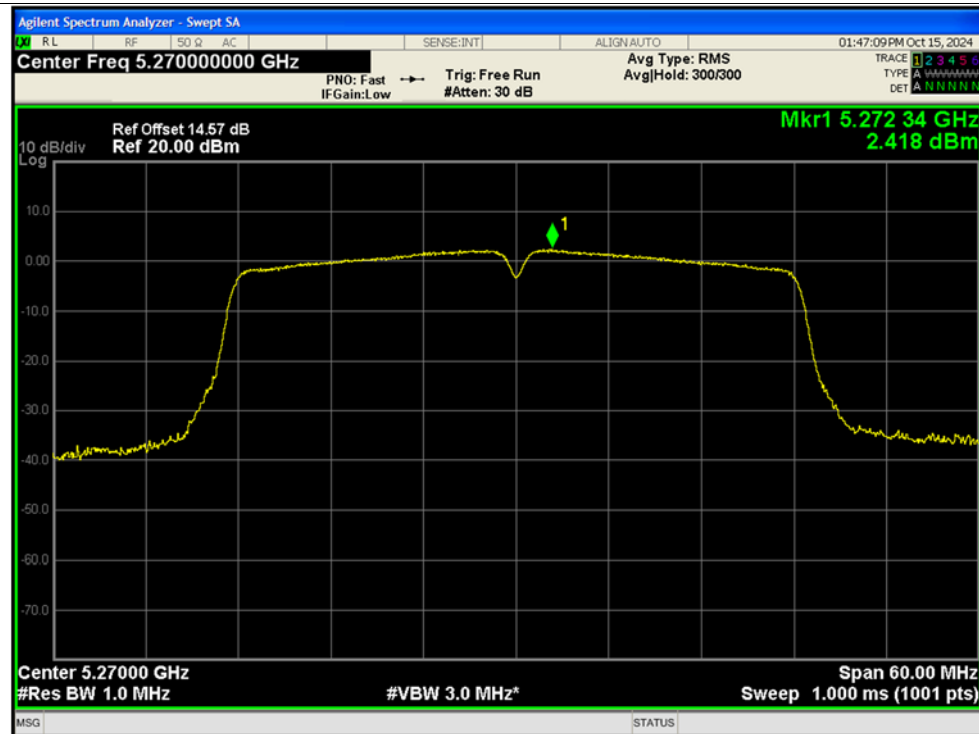


PSD NVNT n40 5230MHz Ant1

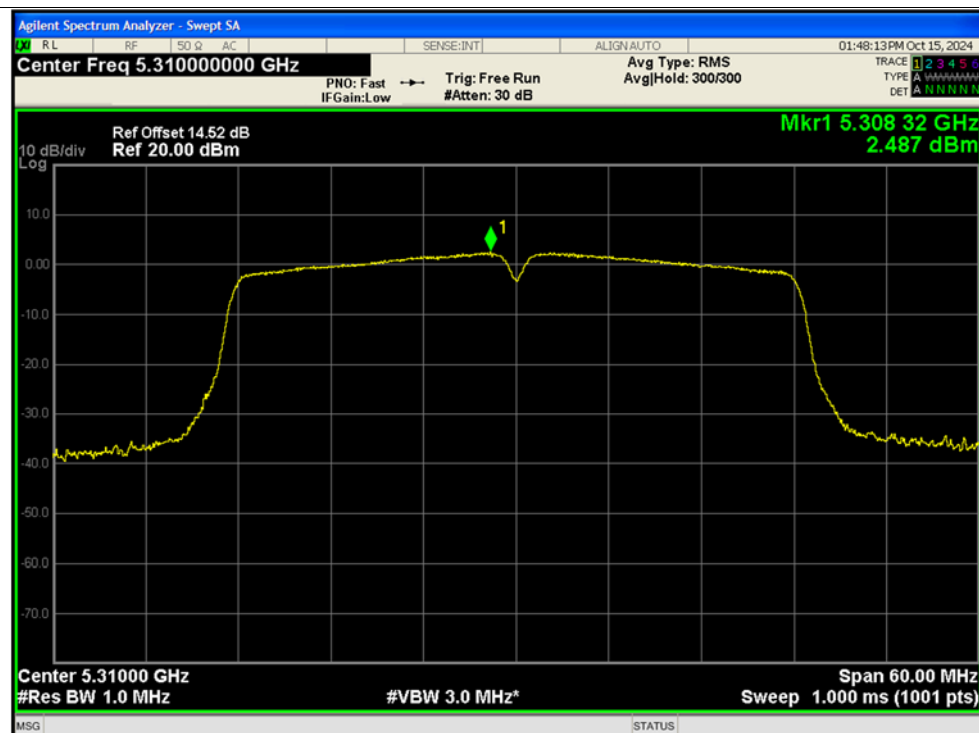




PSD NVNT n40 5270MHz Ant1

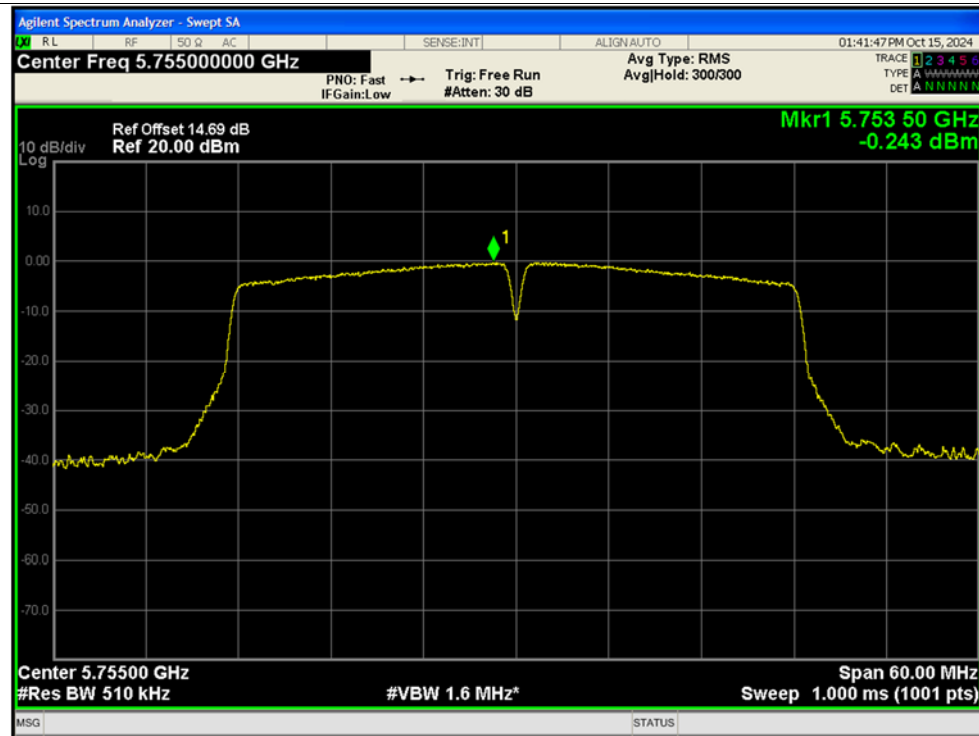


PSD NVNT n40 5310MHz Ant1

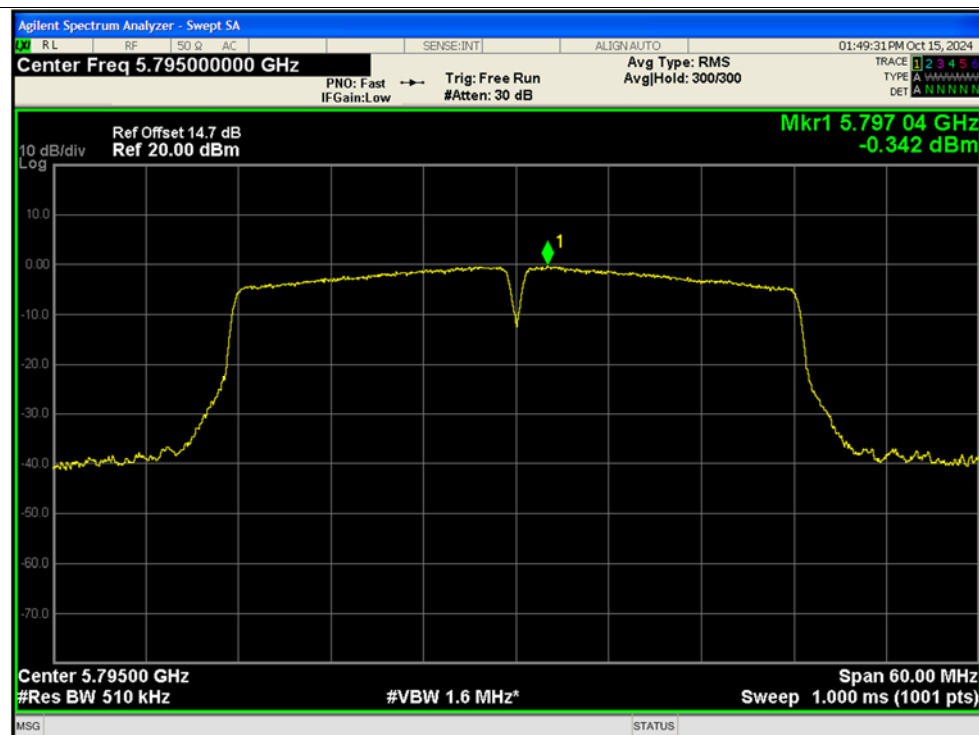




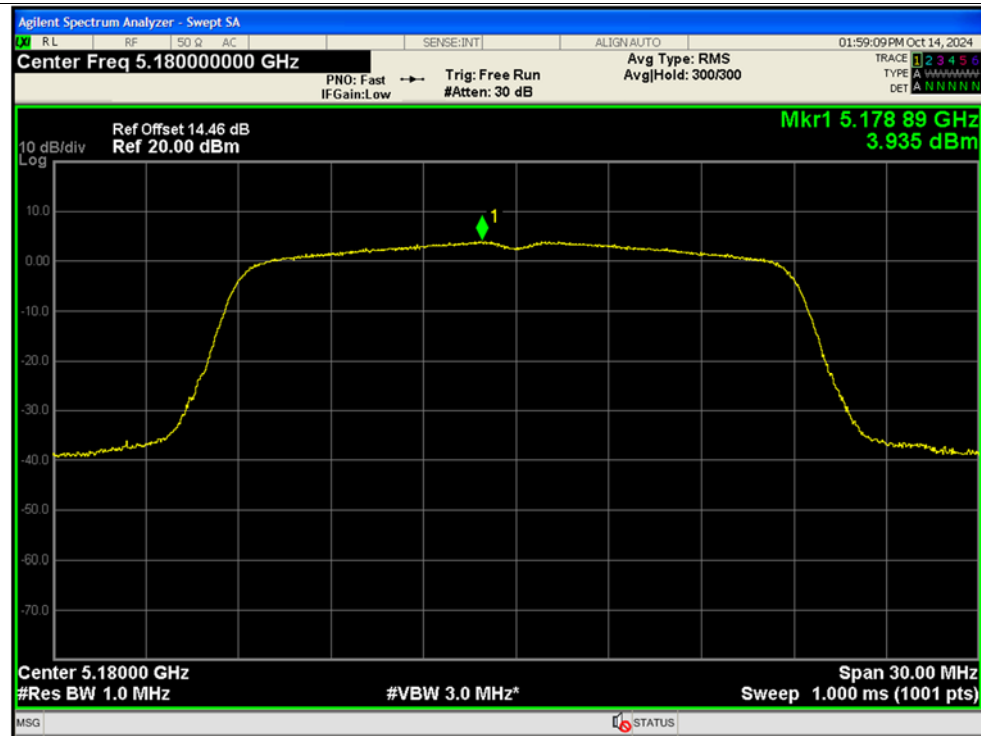
PSD NVNT n40 5755MHz Ant1



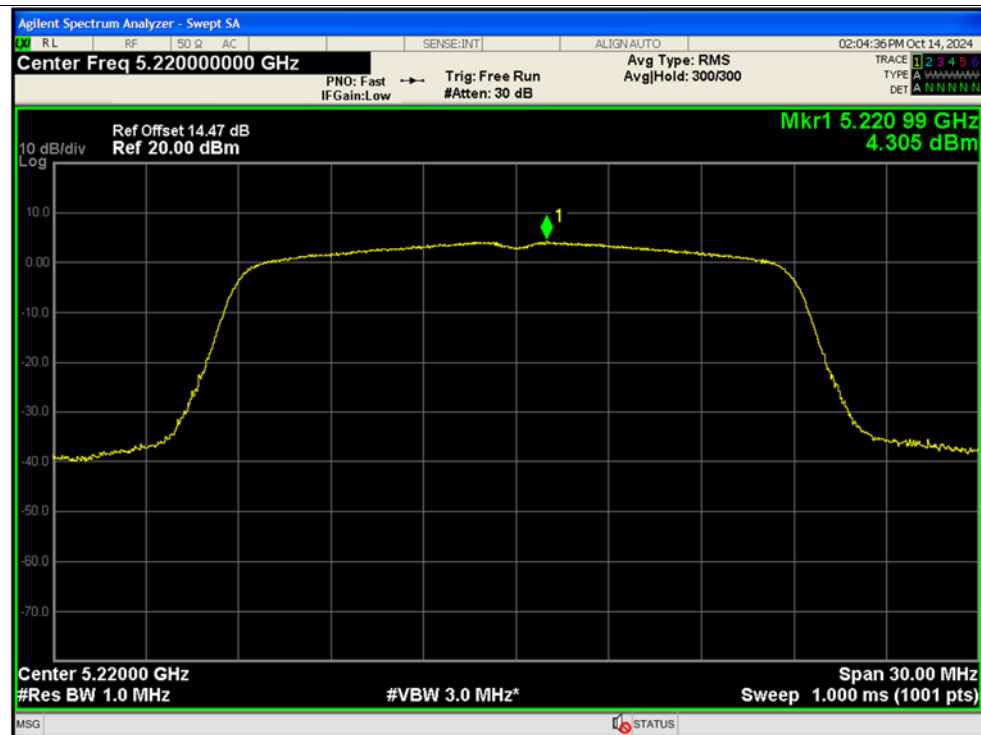
PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5180MHz Ant1

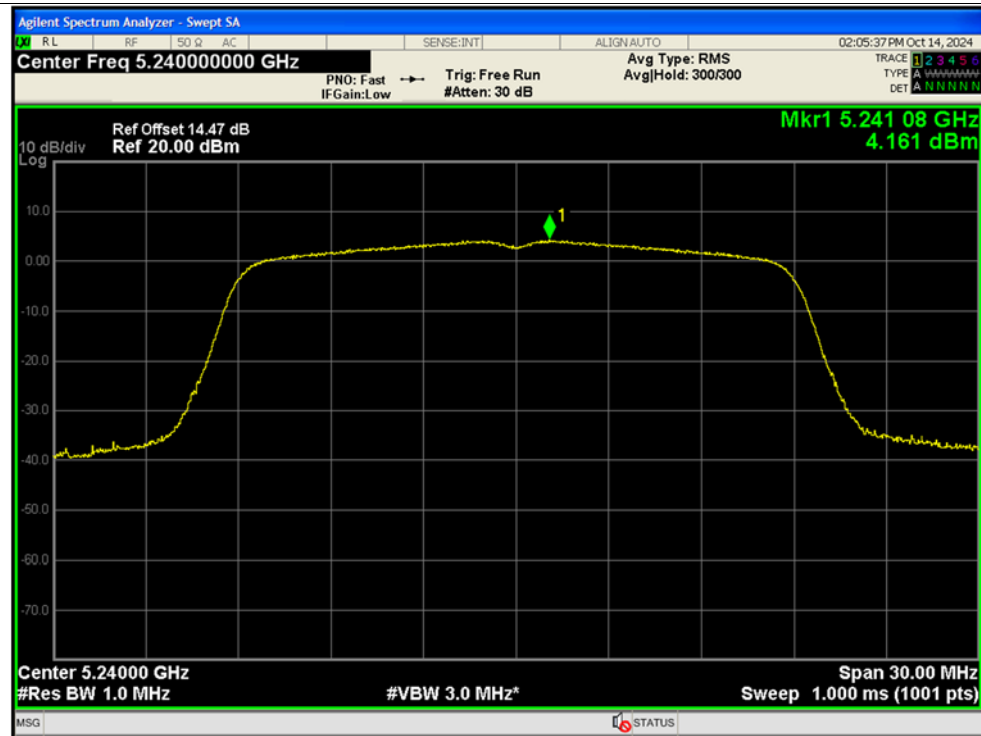


PSD NVNT ac20 5220MHz Ant1

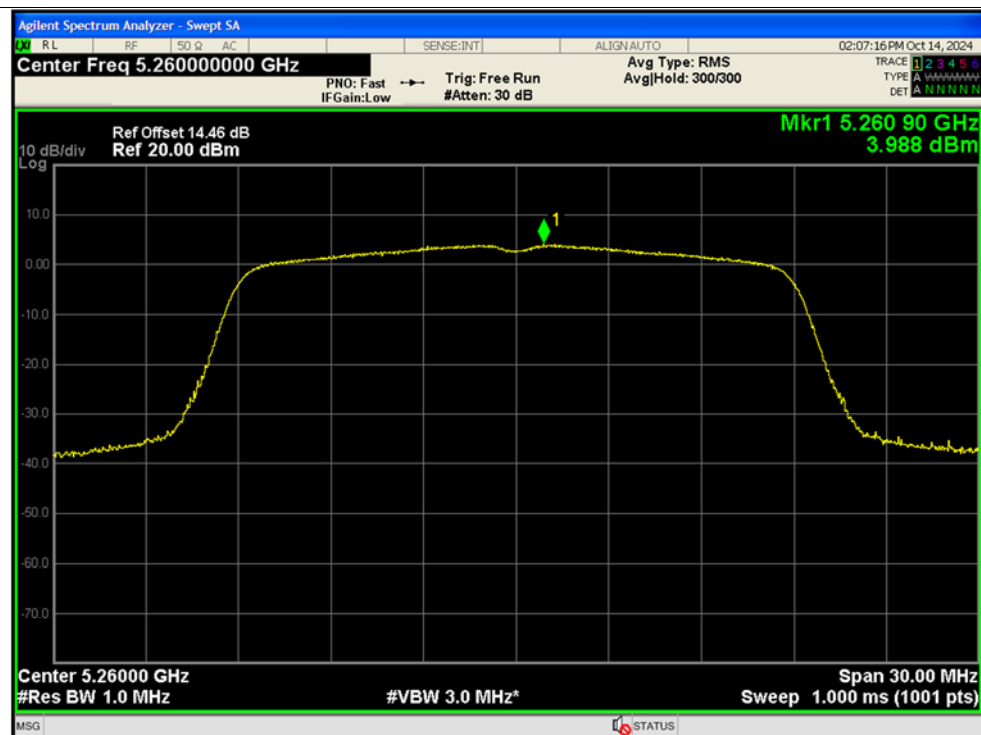




PSD NVNT ac20 5240MHz Ant1

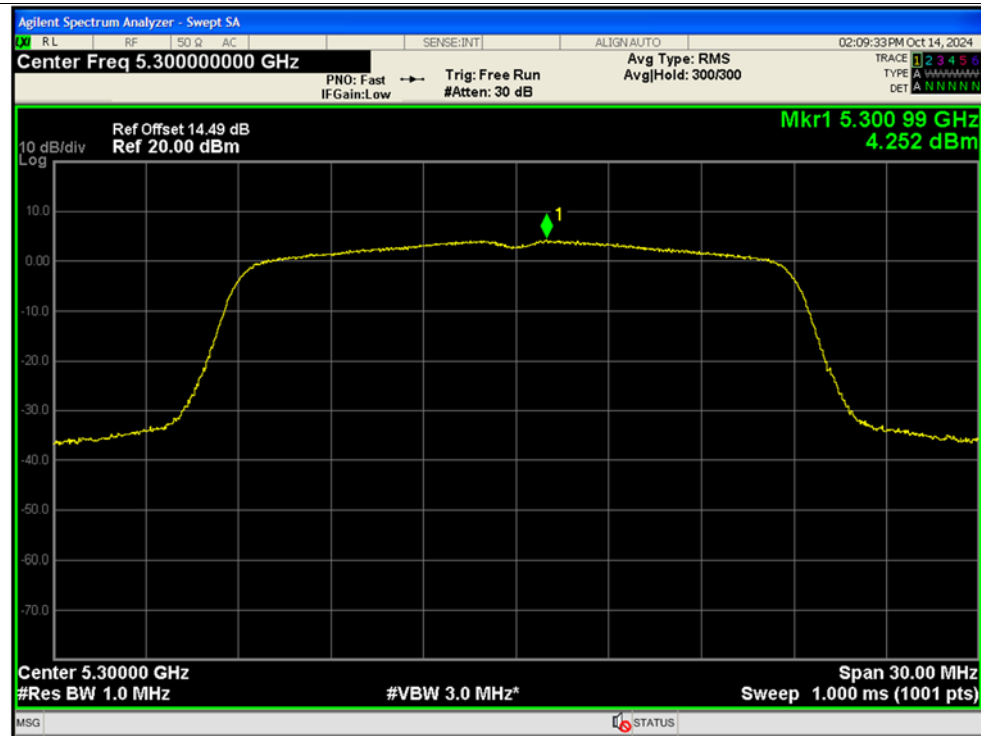


PSD NVNT ac20 5260MHz Ant1

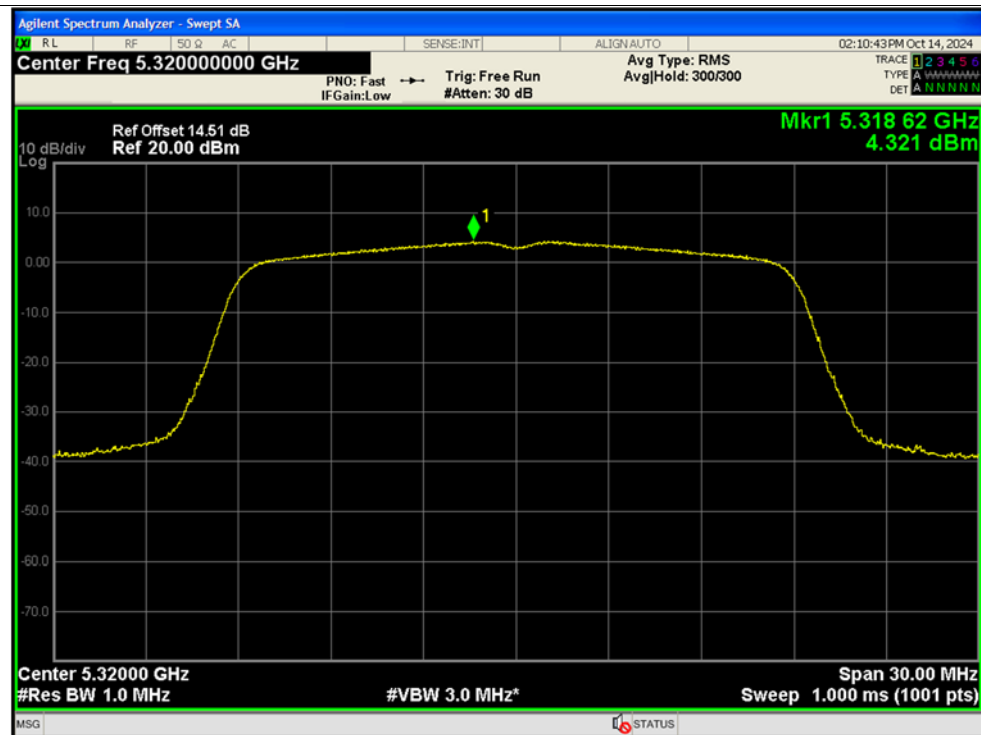




PSD NVNT ac20 5300MHz Ant1

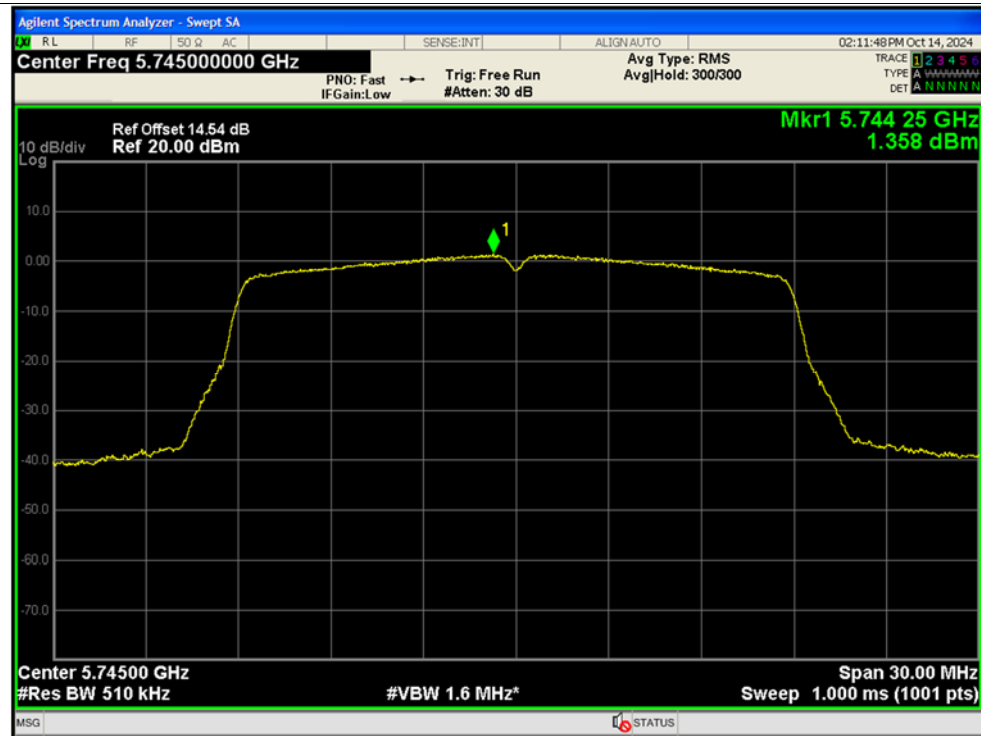


PSD NVNT ac20 5320MHz Ant1

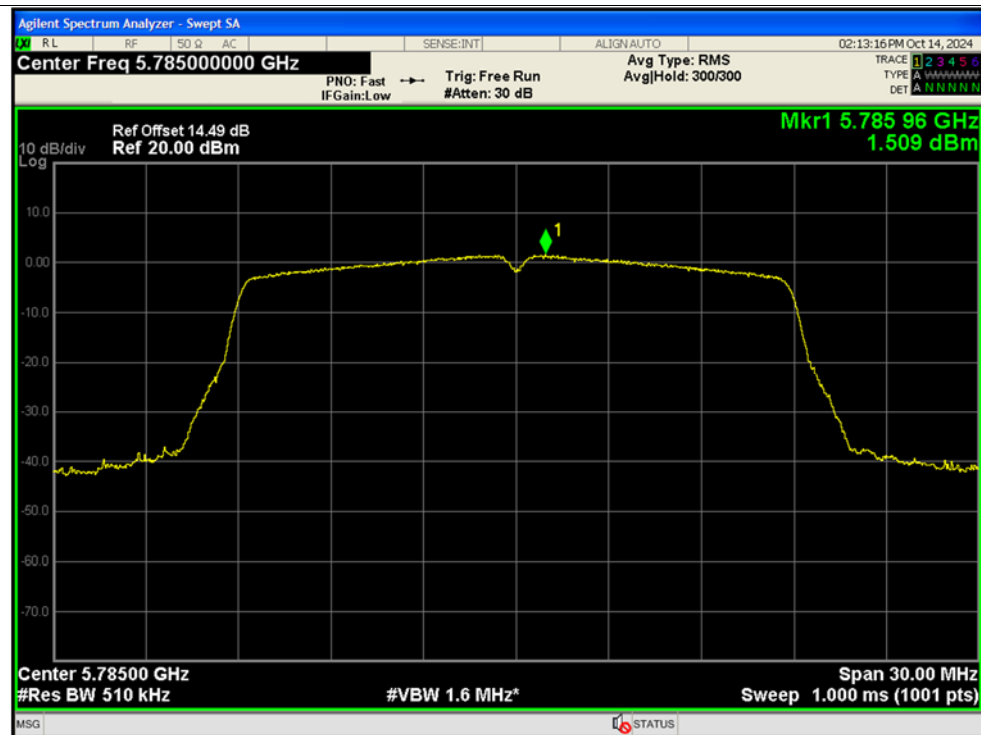




PSD NVNT ac20 5745MHz Ant1

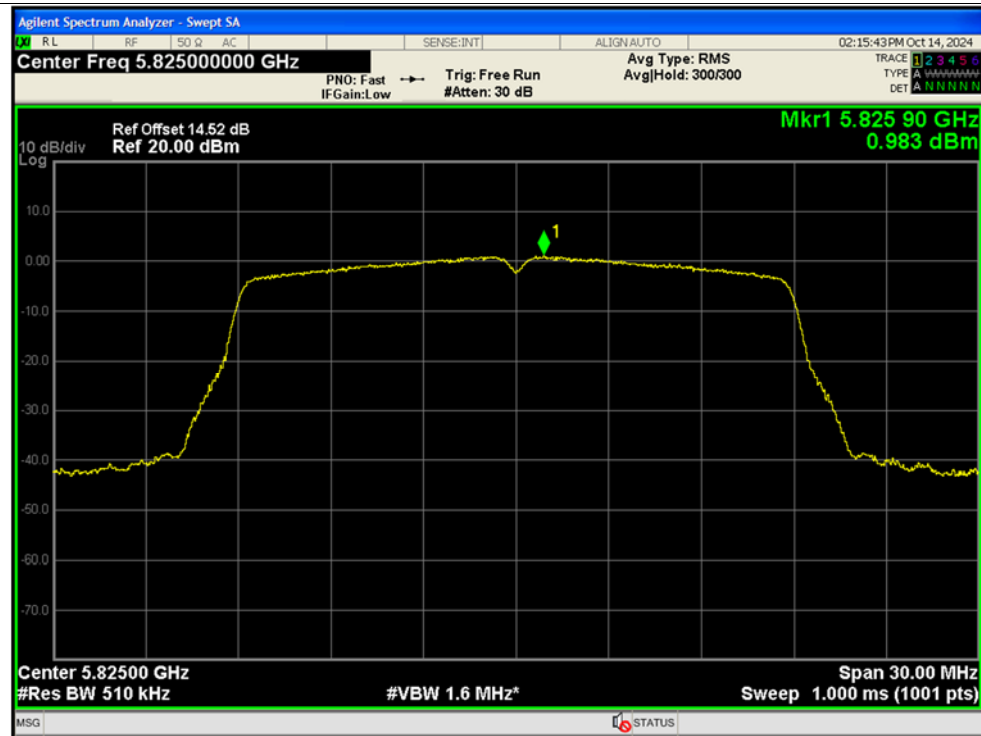


PSD NVNT ac20 5785MHz Ant1

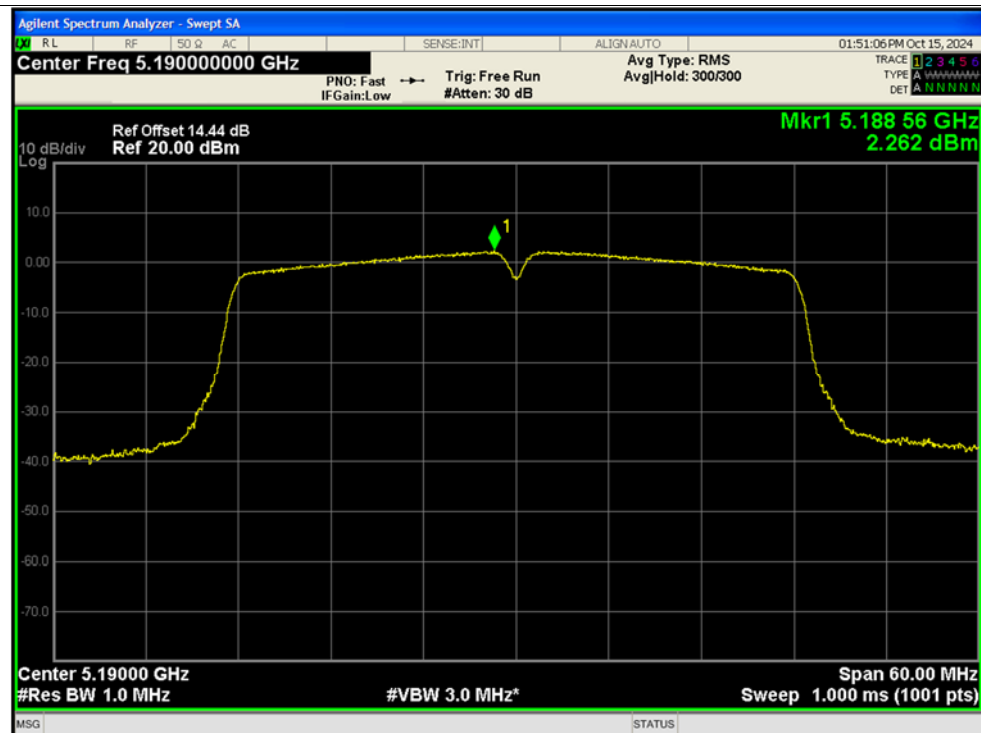




PSD NVNT ac20 5825MHz Ant1

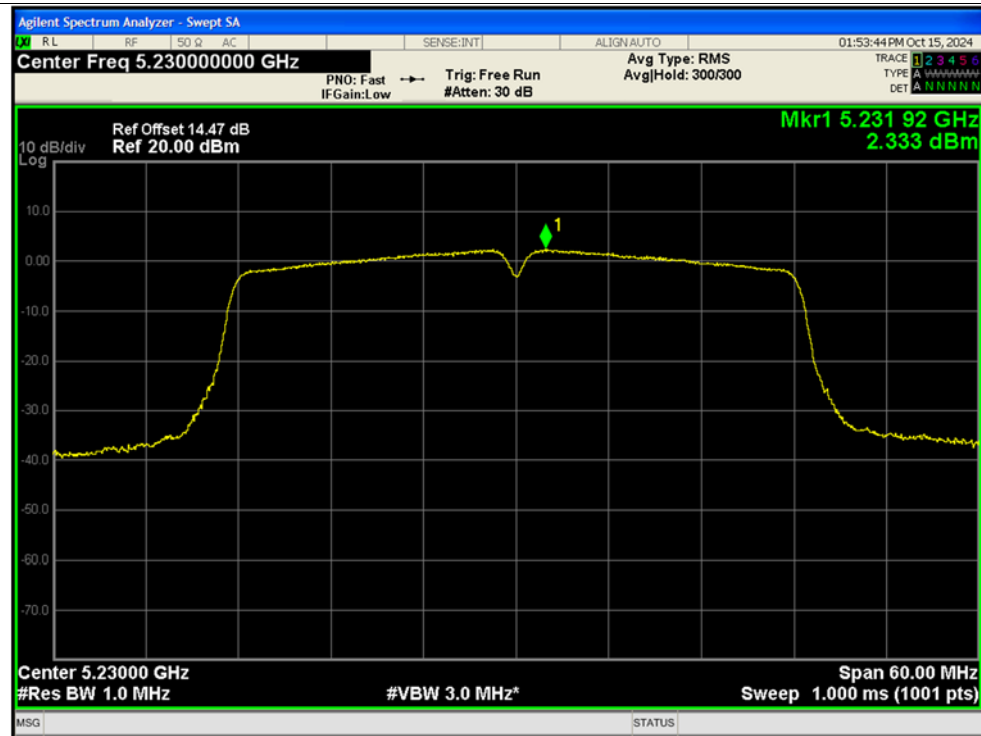


PSD NVNT ac40 5190MHz Ant1

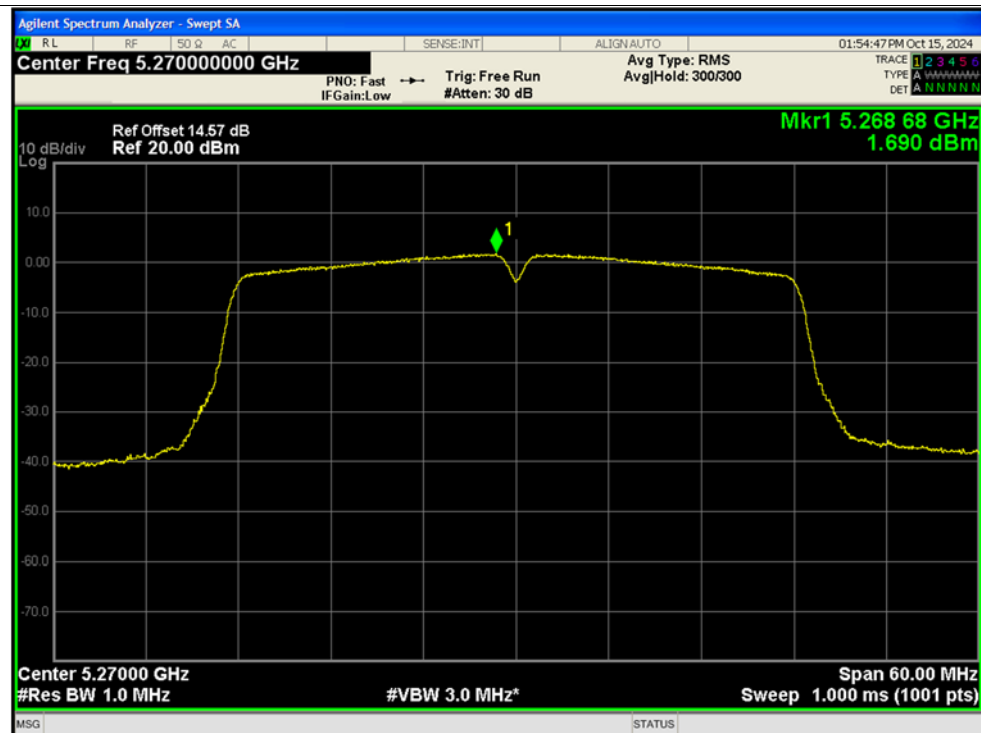




PSD NVNT ac40 5230MHz Ant1

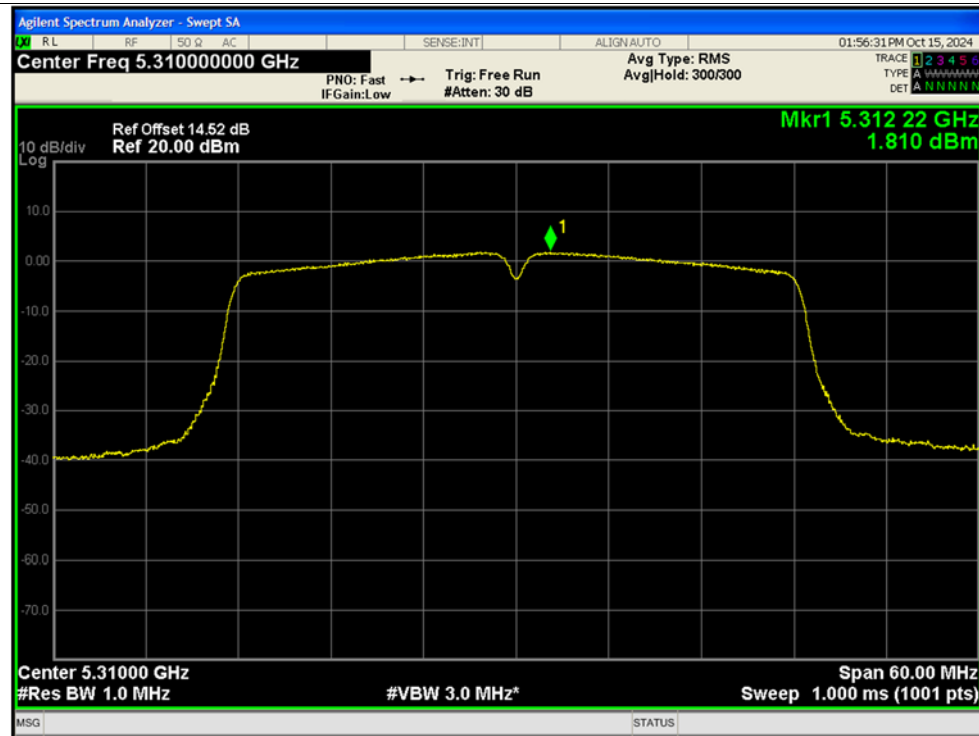


PSD NVNT ac40 5270MHz Ant1

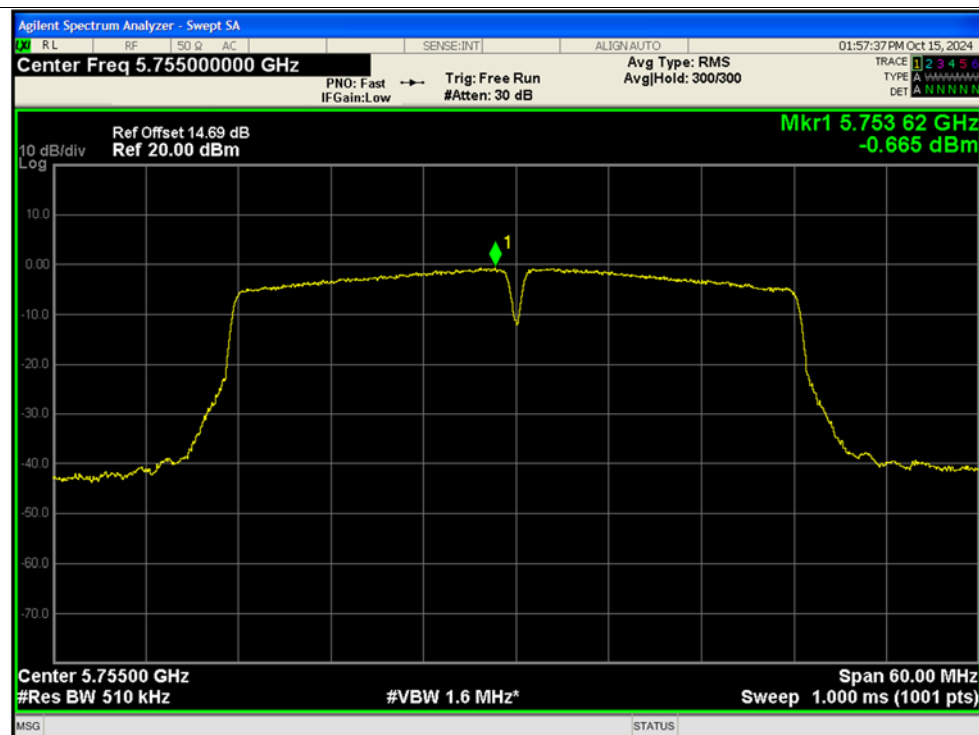




PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac40 5755MHz Ant1





PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5210MHz Ant1

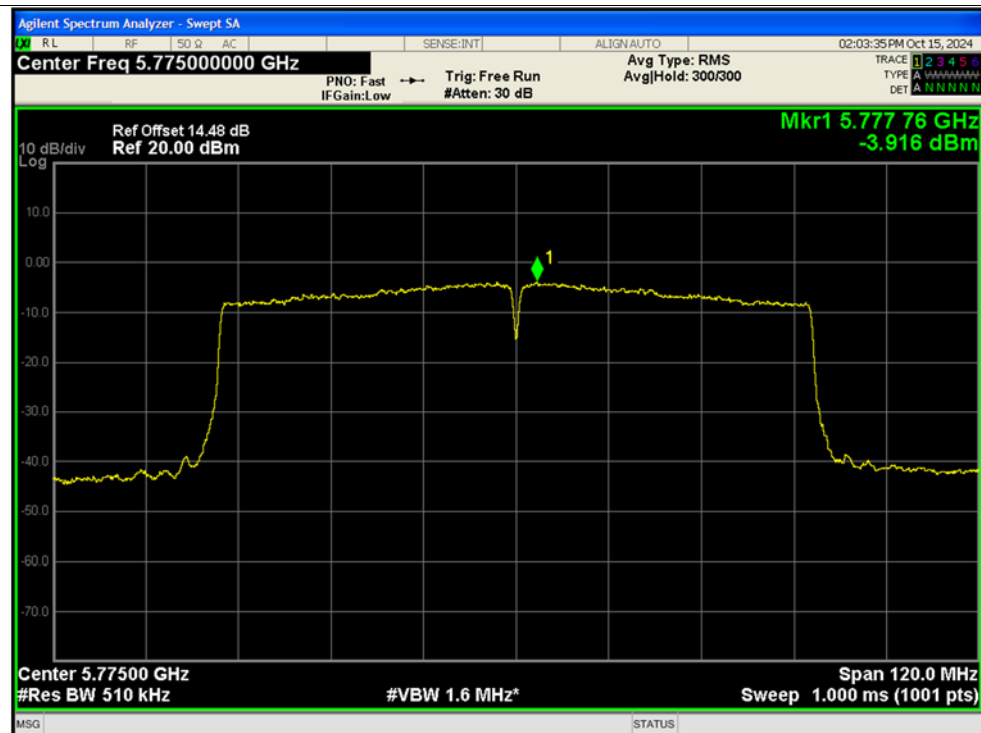




PSD NVNT ac80 5290MHz Ant1



PSD NVNT ac80 5775MHz Ant1



**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 4.75V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
20C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
20C 5.35V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
-10C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
0C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
10C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
30C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
40C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
50C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
60C 5V	Carrier	5180	Ant1	5179.998	-2000	-0.39	25	Pass
20C 4.75V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
20C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
20C 5.35V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
-10C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
0C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
10C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
30C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
40C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
50C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
60C 5V	Carrier	5260	Ant1	5259.997	-3000	-0.57	25	Pass
20C 4.75V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
20C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
20C 5.35V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
-10C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
0C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
10C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
30C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
40C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
50C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass
60C 5V	Carrier	5745	Ant1	5744.997	-3000	-0.52	25	Pass

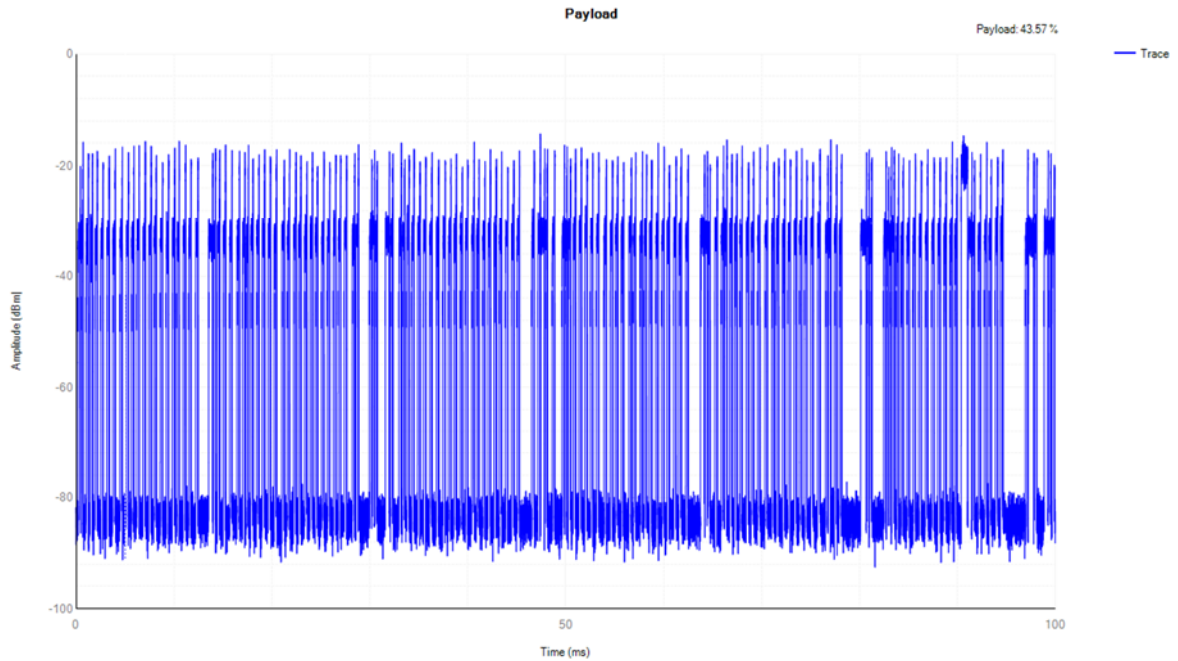
**A.6. Dynamic Frequency Selection**

Payload

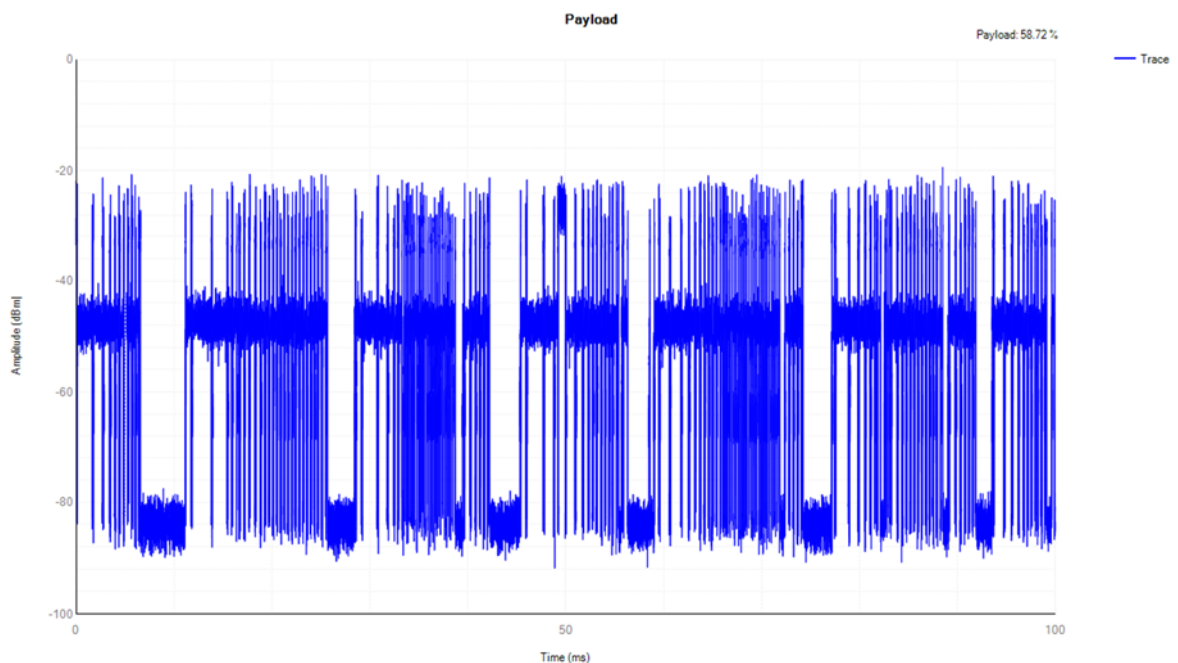
Mode	Frequency (MHz)	Result	Verdict
ac20	5260	43.57	Pass
ac80	5290	58.72	Pass

Test Graphs

ac20 5260MHz Payload



ac80 5290MHz Payload





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Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ac20	5260	DFS_FCC_T0	See test Graph	Pass
ac80	5290	DFS_FCC_T0	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

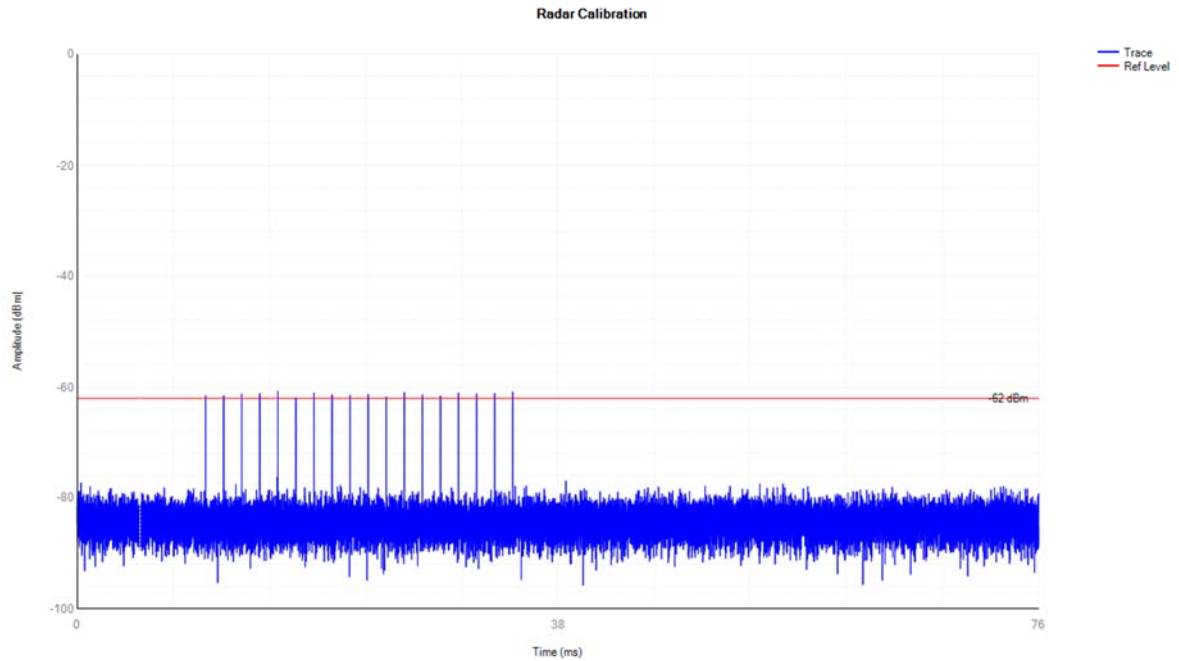
Detector Type: Peak

RBW: 3MHz

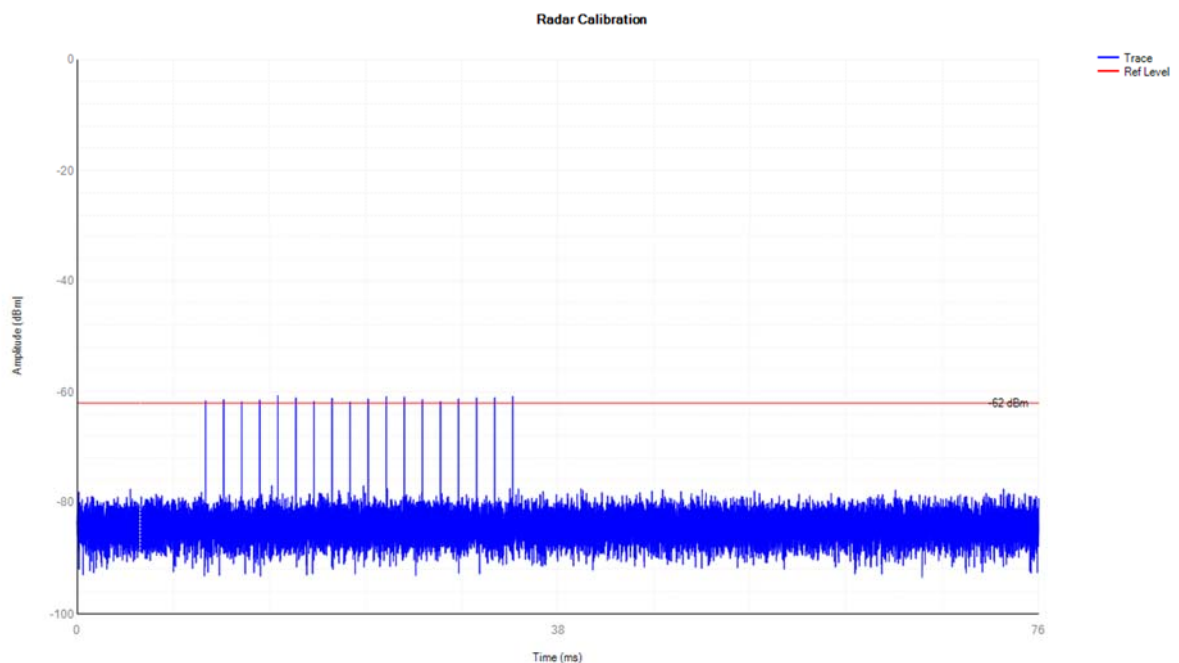
VBW: 3MHz

Test Graphs

5260MHz DFS_FCC_T0



5290MHz DFS_FCC_T0





Channel Move Time and Channel Closing Transmission Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac20	5260	0.798	10	0.046	0.26	0.014	0.06	Pass
ac80	5290	0.95	10	0.084	0.26	0.035	0.06	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

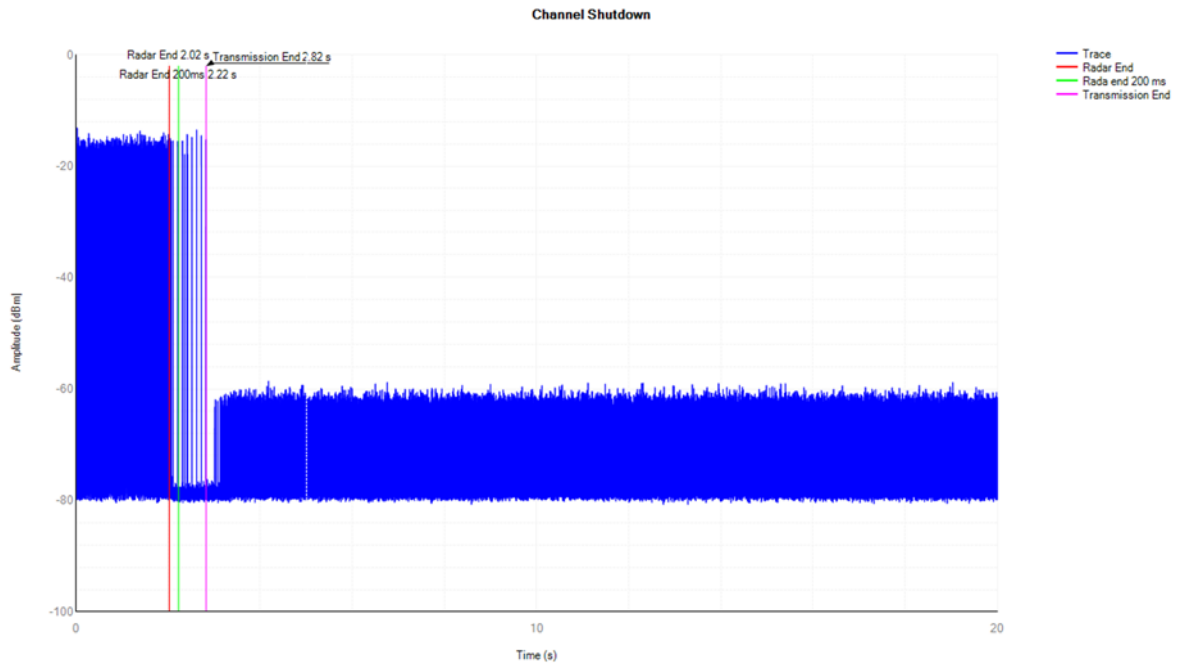
RBW: 3MHz

VBW: 3MHz

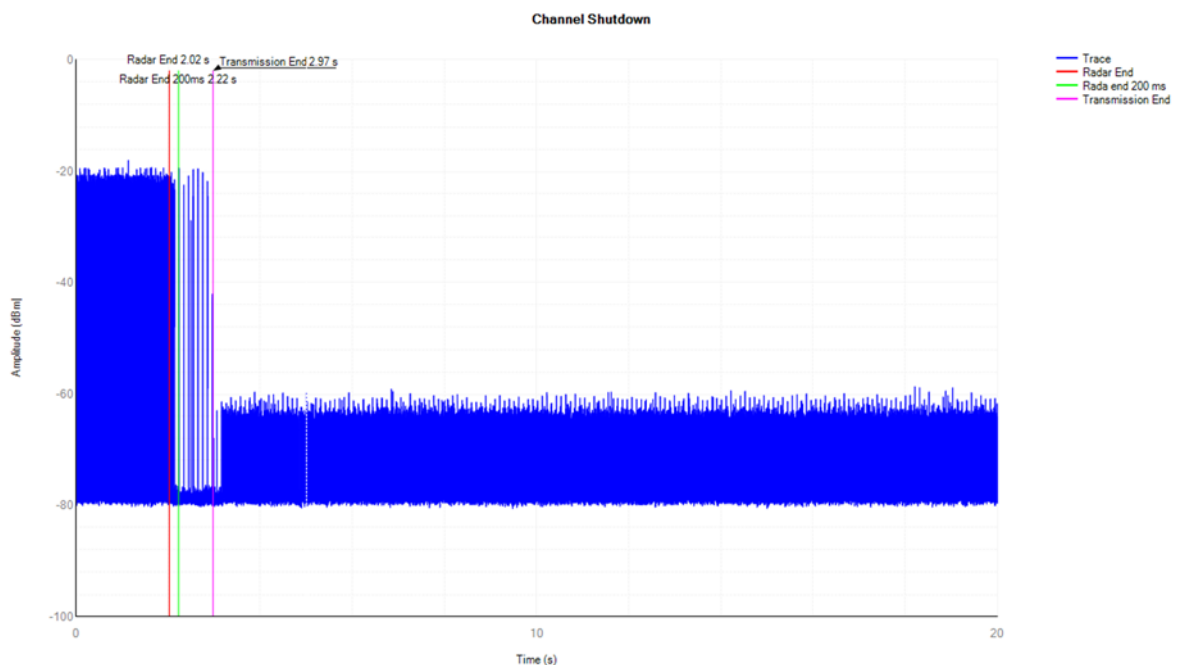
Sweep time: 20s

Test Graphs

ac20 5260MHz Shutdown



ac80 5290MHz Shutdown



Note: The signal above the noise floor after the radar signal ends is the signal which leaked from other channels that have been moved following the Master device.



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Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
ac20	5260	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

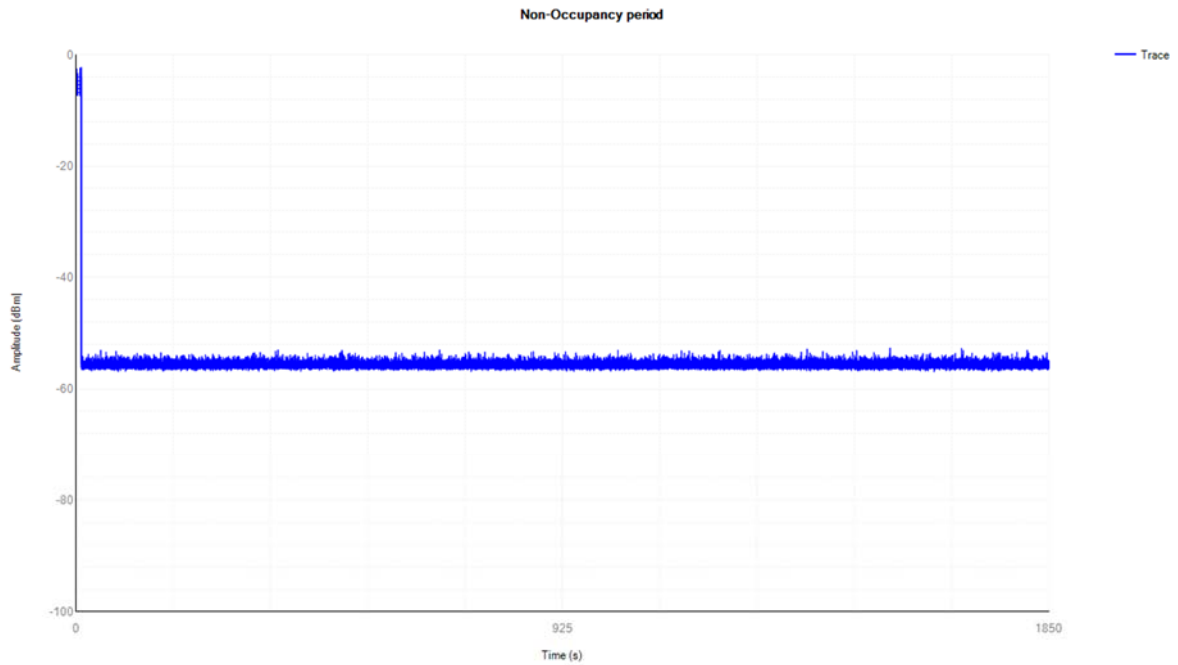
RBW: 3MHz

VBW: 3MHz

Sweep time: 1850s

Test Graphs

ac20 5260MHz Non-Occupancy





A.7. 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 + Adapter + USB Cable + Earphone + WIFI TX

Test voltage: AC 120V/60Hz

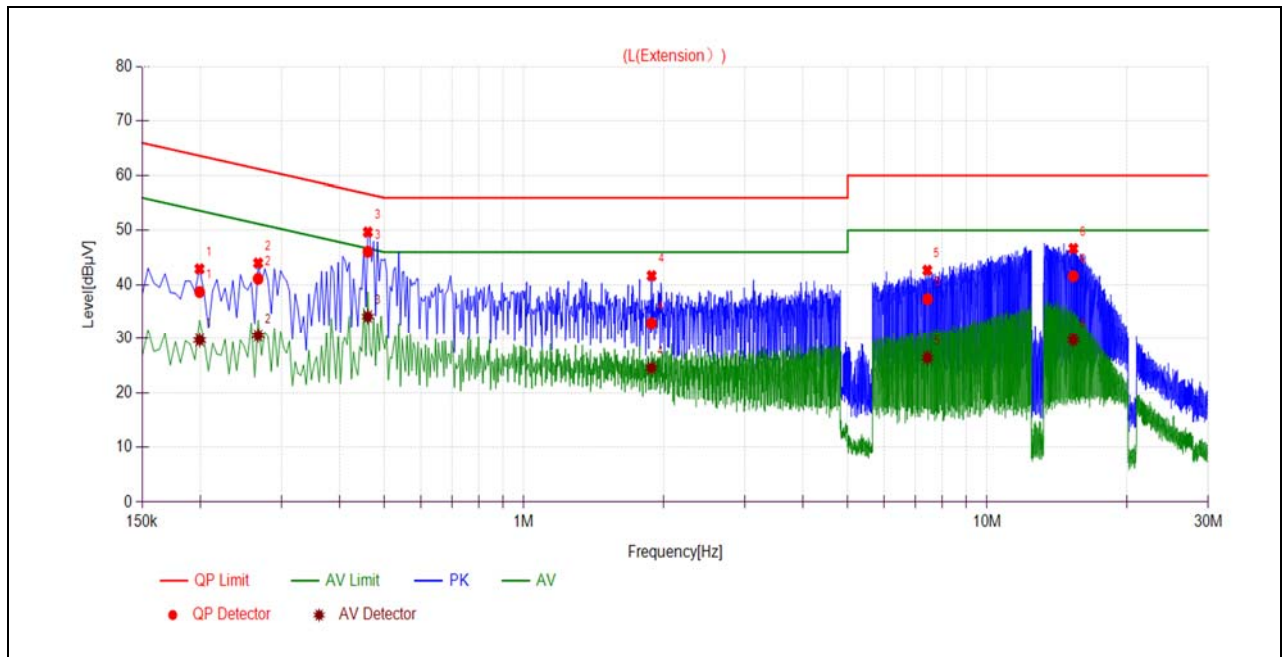
The measurement results are obtained as below:

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

U_R : Receiver Reading

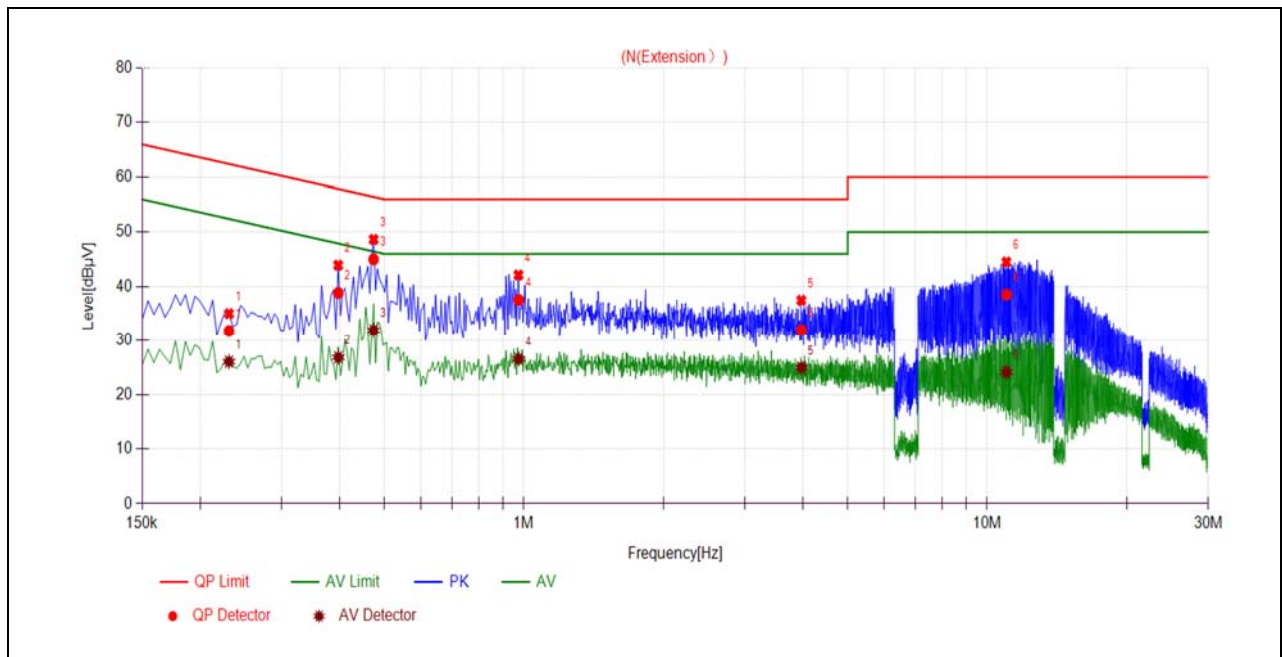
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1996	38.66	29.67	63.63	29.67	Line	PASS
2	0.2669	41.10	30.55	61.21	30.55		PASS
3	0.4606	46.08	34.12	56.68	34.12		PASS
4	1.8854	32.89	24.53	56.00	24.53		PASS
5	7.4330	37.35	26.40	60.00	26.40		PASS
6	15.3450	41.58	29.71	60.00	29.71		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2310	31.79	26.04	62.41	52.41	Neutral	PASS
2	0.3976	38.83	26.86	57.90	47.90		PASS
3	0.4737	45.02	31.95	56.45	46.45		PASS
4	0.9745	37.54	26.56	56.00	46.00		PASS
5	3.9726	31.99	24.97	56.00	46.00		PASS
6	11.0019	38.53	24.10	60.00	50.00		PASS



A.8. 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

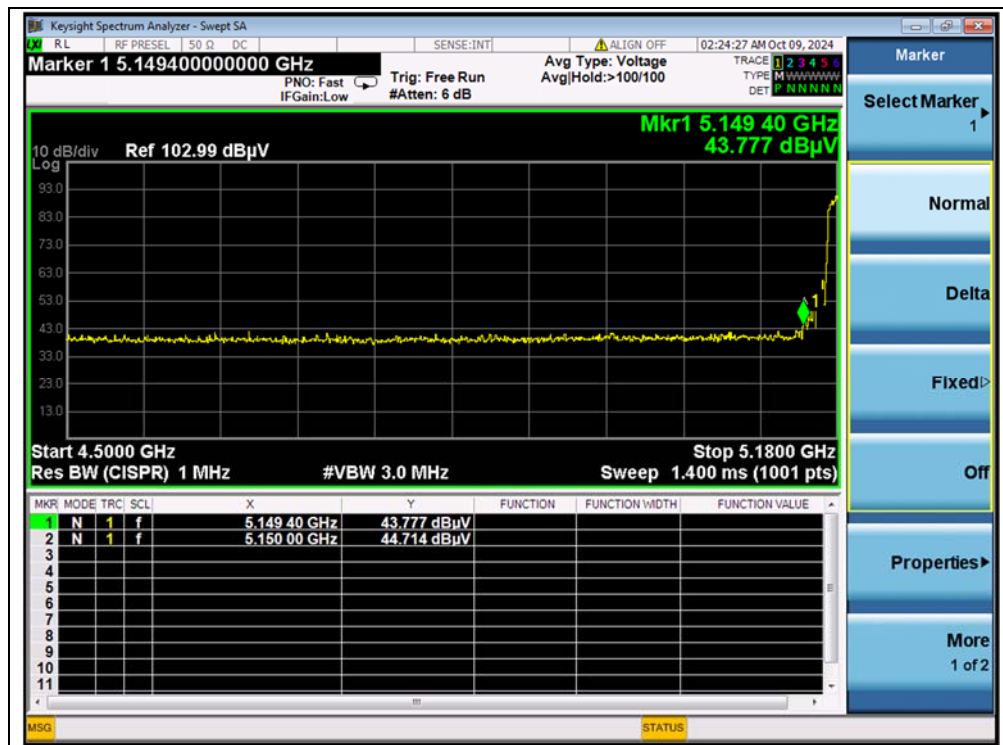
A_{Factor} : Antenna Factor at 3m

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.

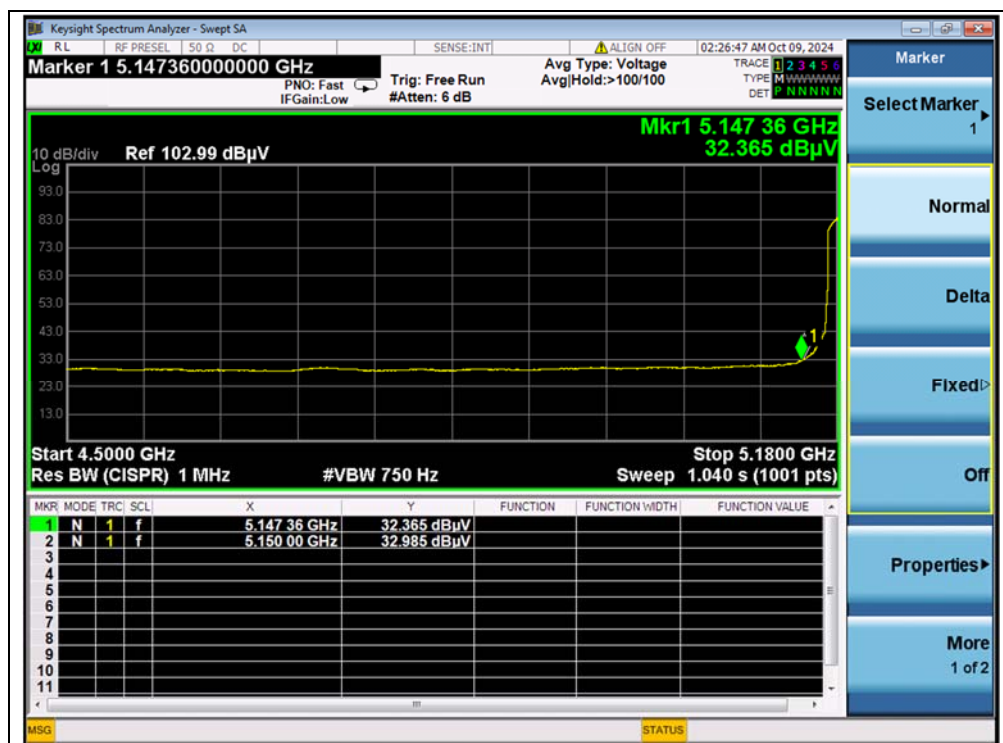
Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

802.11a Mode

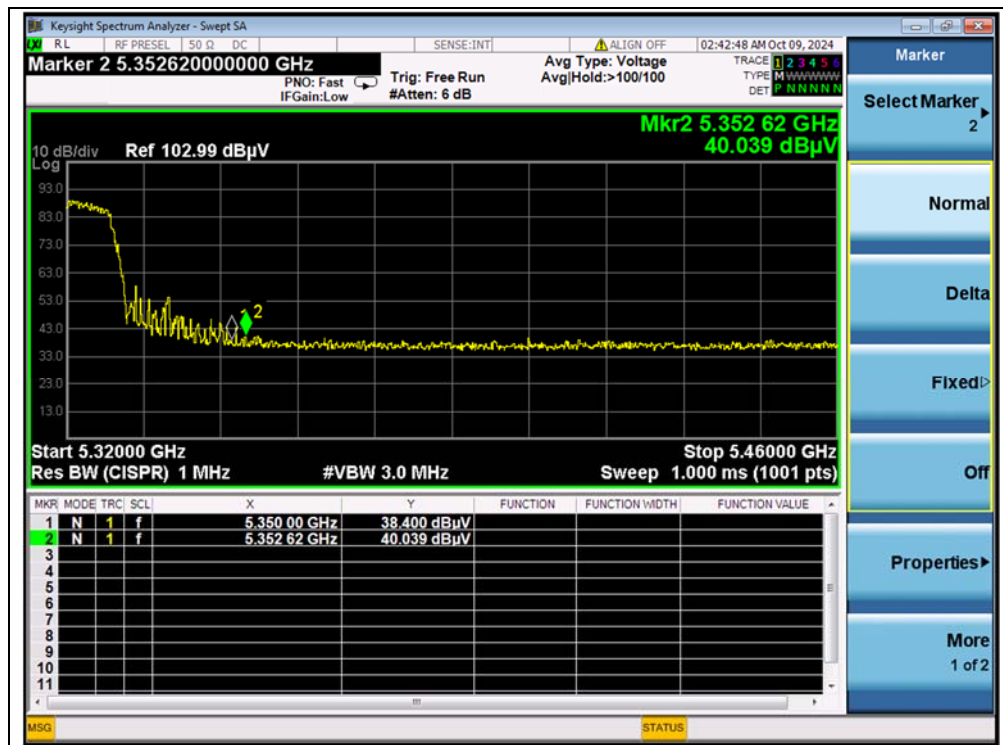
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5150.00	PK	44.71	-16.90	33.10	60.91	74	PASS
36	5150.00	AV	32.99	-16.90	33.10	49.19	54	PASS
64	5352.62	PK	40.04	-15.40	33.00	57.64	74	PASS
64	5350.00	AV	31.35	-15.40	33.00	48.95	54	PASS
149	5725.00	PK	53.82	-16.00	33.60	71.42	122.23	PASS
165	5850.00	PK	45.66	-16.00	33.60	63.26	122.23	PASS



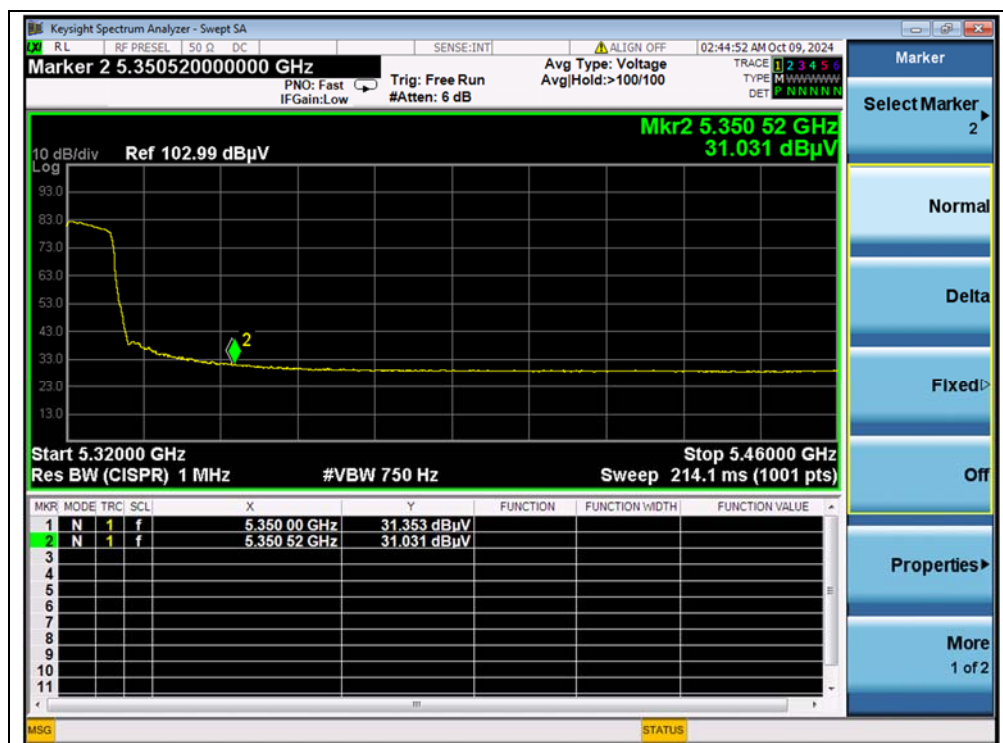
(PEAK, Channel 36, 802.11a)



(AVERAGE, Channel 36, 802.11a)



(PEAK, Channel 64, 802.11a)



(AVERAGE, Channel 64, 802.11a)