



PSD NVNT ax20 26@1 5180MHz Ant2 SISO



PSD NVNT ax20 26@1 5220MHz Ant2 SISO



PSD NVNT ax20 26@1 5240MHz Ant2 SISO



PSD NVNT ax20 26@1 5260MHz Ant2 SISO



PSD NVNT ax20 26@1 5300MHz Ant2 SISO



PSD NVNT ax20 26@1 5320MHz Ant2 SISO



PSD NVNT ax20 26@1 5500MHz Ant2 SISO



PSD NVNT ax20 26@1 5580MHz Ant2 SISO



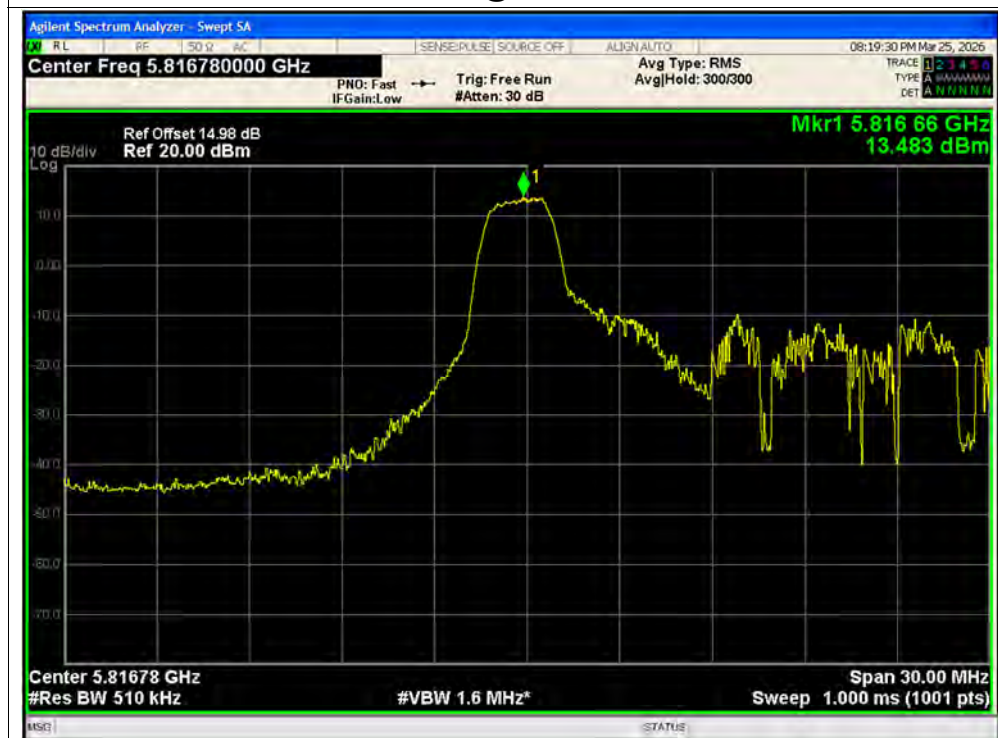
PSD NVNT ax20 26@1 5720MHz Ant2 SISO



PSD NVNT ax20 26@1 5745MHz Ant2 SISO



PSD NVNT ax20 26@1 5785MHz Ant2 SISO



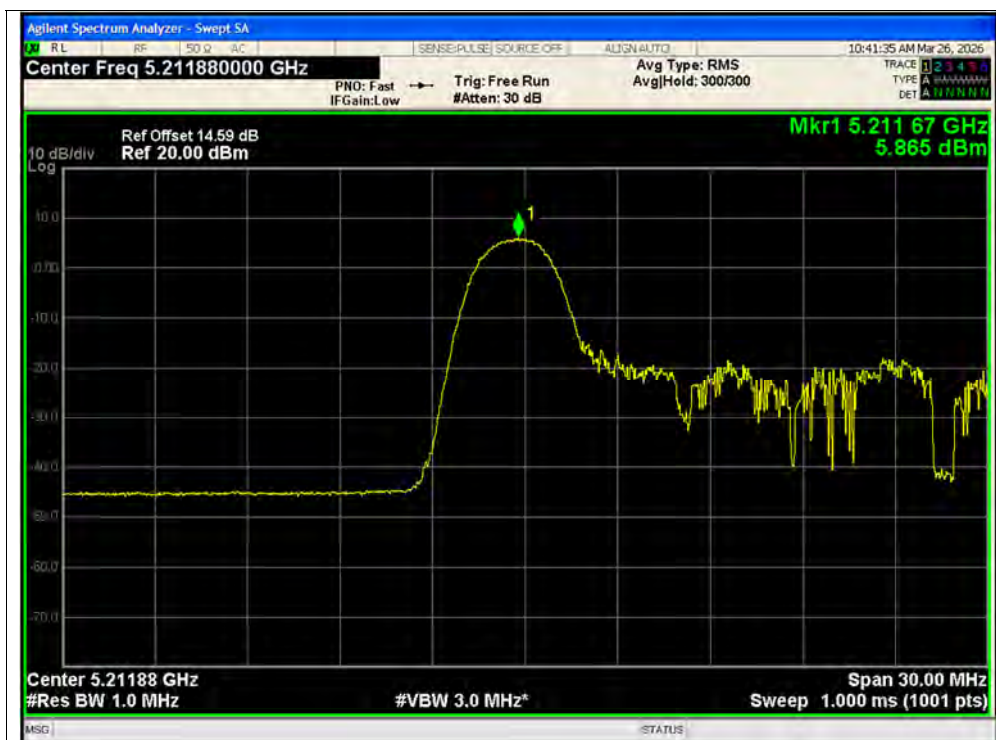
PSD NVNT ax20 26@1 5825MHz Ant2 SISO



PSD NVNT ax20 26@1 5180MHz Ant1 MIMO



PSD NVNT ax20 26@1 5180MHz Ant2 MIMO



PSD NVNT ax20 26@1 5220MHz Ant1 MIMO



PSD NVNT ax20 26@1 5220MHz Ant2 MIMO



PSD NVNT ax20 26@1 5240MHz Ant1 MIMO



PSD NVNT ax20 26@1 5240MHz Ant2 MIMO



PSD NVNT ax20 26@1 5260MHz Ant1 MIMO



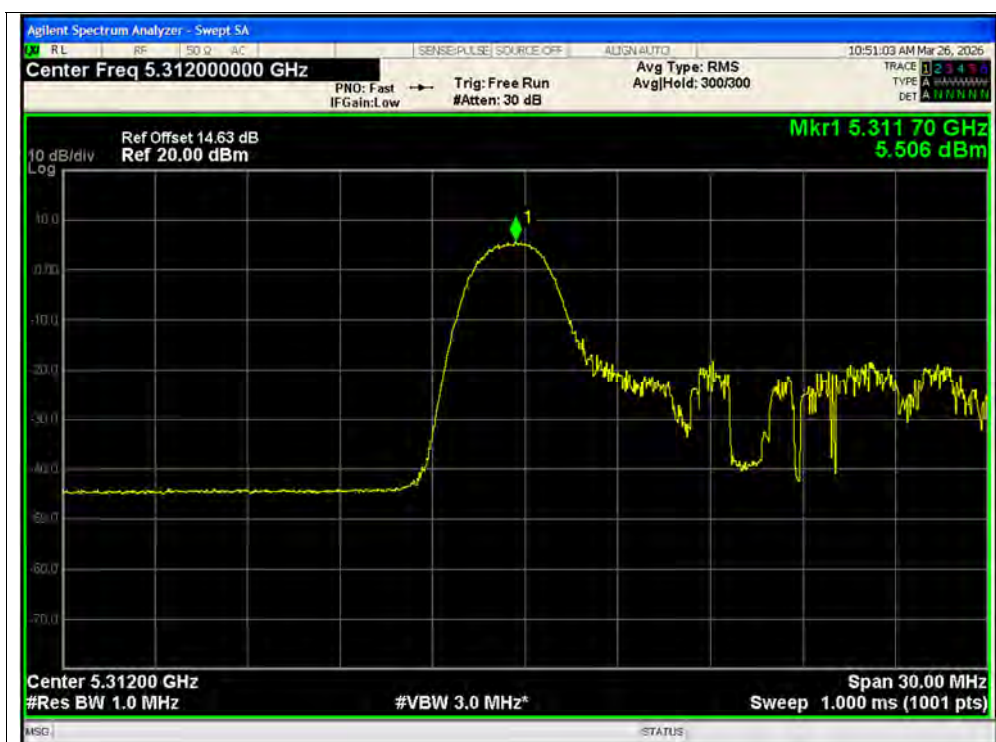
PSD NVNT ax20 26@1 5260MHz Ant2 MIMO



PSD NVNT ax20 26@1 5300MHz Ant1 MIMO



PSD NVNT ax20 26@1 5300MHz Ant2 MIMO



PSD NVNT ax20 26@1 5320MHz Ant1 MIMO



PSD NVNT ax20 26@1 5320MHz Ant2 MIMO



PSD NVNT ax20 26@1 5500MHz Ant1 MIMO



PSD NVNT ax20 26@1 5500MHz Ant2 MIMO



PSD NVNT ax20 26@1 5580MHz Ant1 MIMO



PSD NVNT ax20 26@1 5580MHz Ant2 MIMO



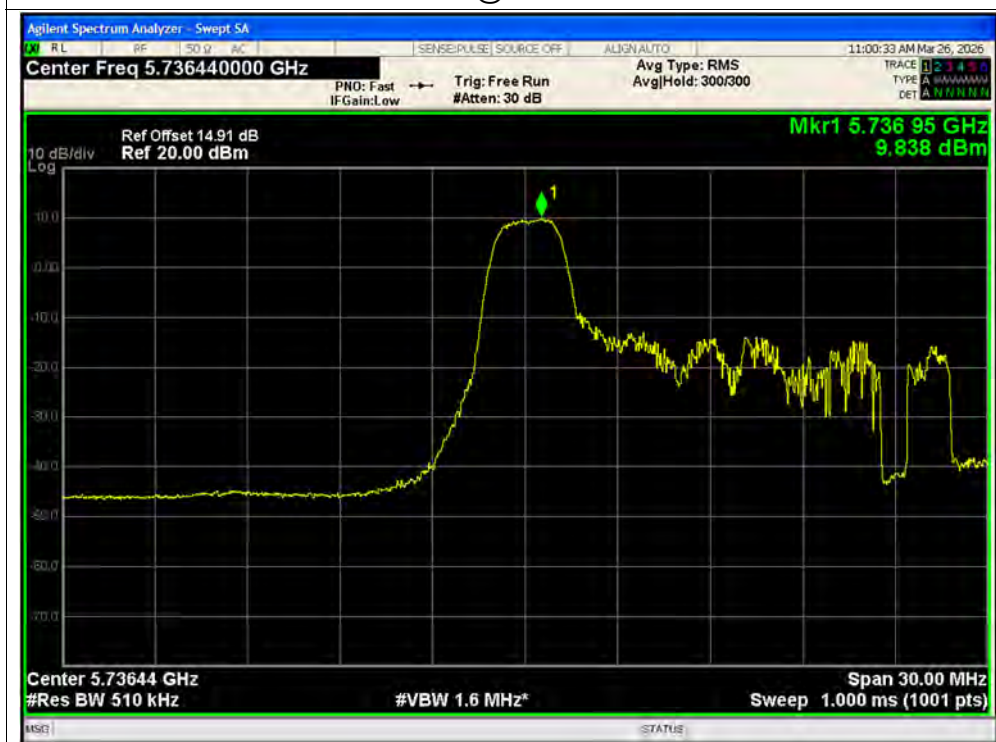
PSD NVNT ax20 26@1 5720MHz Ant1 MIMO



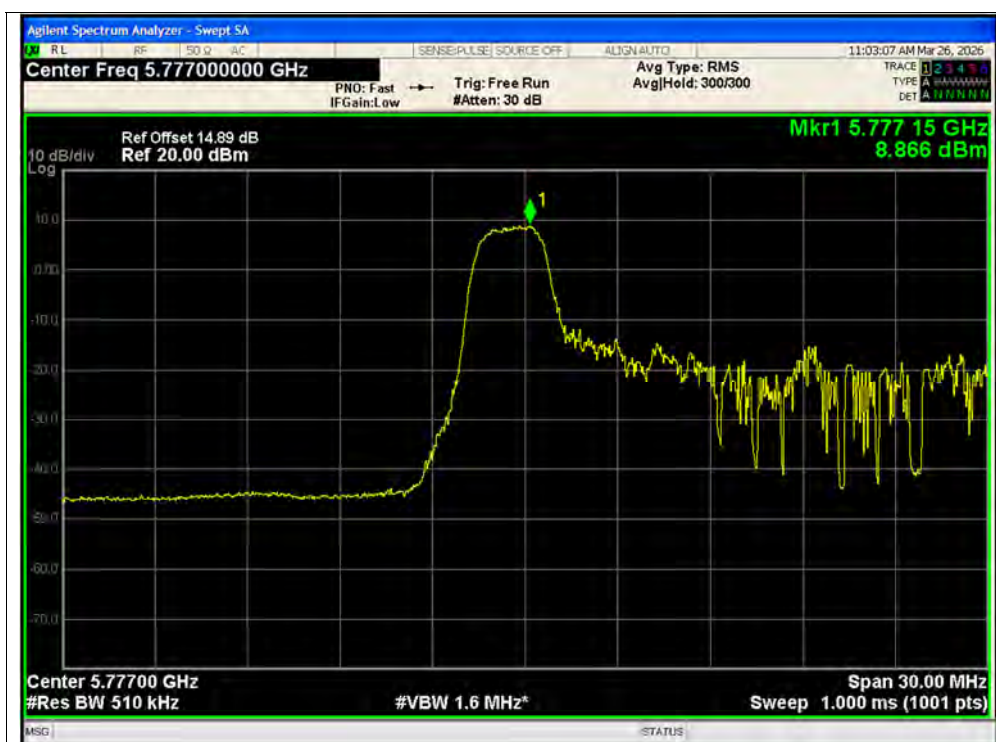
PSD NVNT ax20 26@1 5720MHz Ant2 MIMO



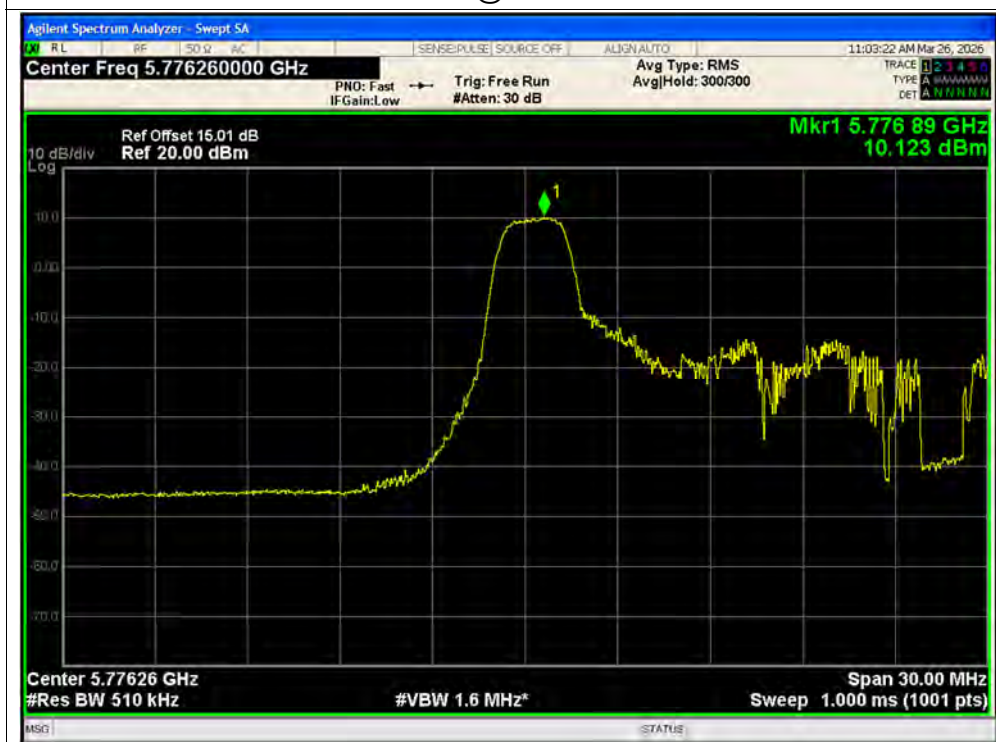
PSD NVNT ax20 26@1 5745MHz Ant1 MIMO



PSD NVNT ax20 26@1 5745MHz Ant2 MIMO



PSD NVNT ax20 26@1 5785MHz Ant1 MIMO



PSD NVNT ax20 26@1 5785MHz Ant2 MIMO



PSD NVNT ax20 26@1 5825MHz Ant1 MIMO



PSD NVNT ax20 26@1 5825MHz Ant2 MIMO



PSD NVNT ax20 52@1 5180MHz Ant1 SISO



PSD NVNT ax20 52@1 5220MHz Ant1 SISO



PSD NVNT ax20 52@1 5240MHz Ant1 SISO



PSD NVNT ax20 52@1 5260MHz Ant1 SISO



PSD NVNT ax20 52@1 5300MHz Ant1 SISO



PSD NVNT ax20 52@1 5320MHz Ant1 SISO



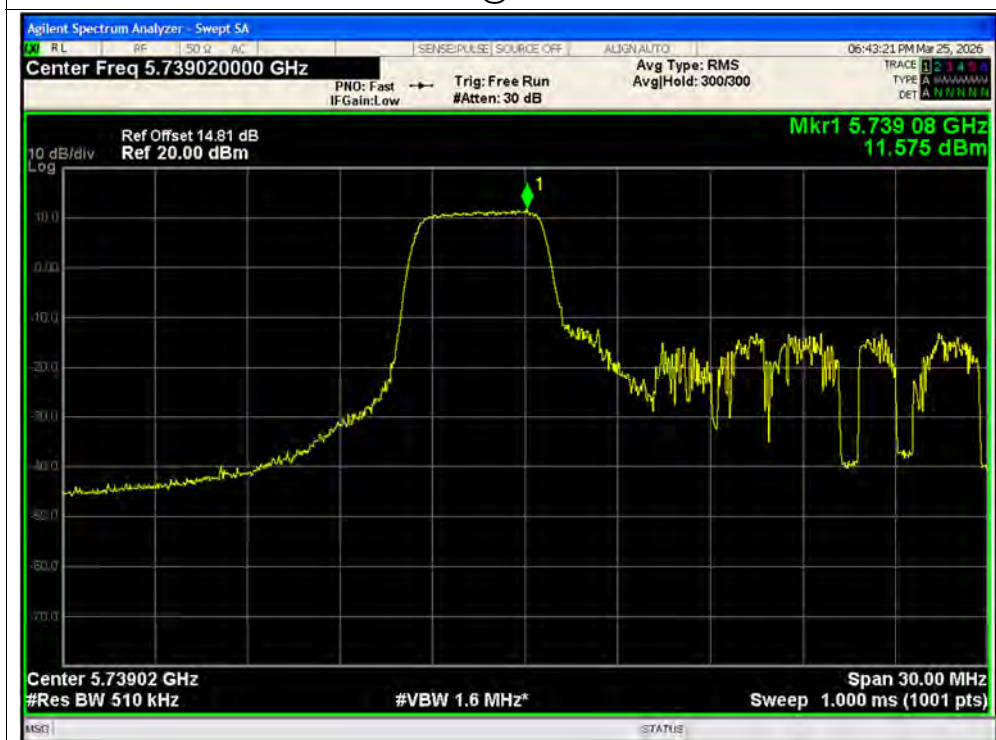
PSD NVNT ax20 52@1 5500MHz Ant1 SISO



PSD NVNT ax20 52@1 5580MHz Ant1 SISO



PSD NVNT ax20 52@1 5720MHz Ant1 SISO



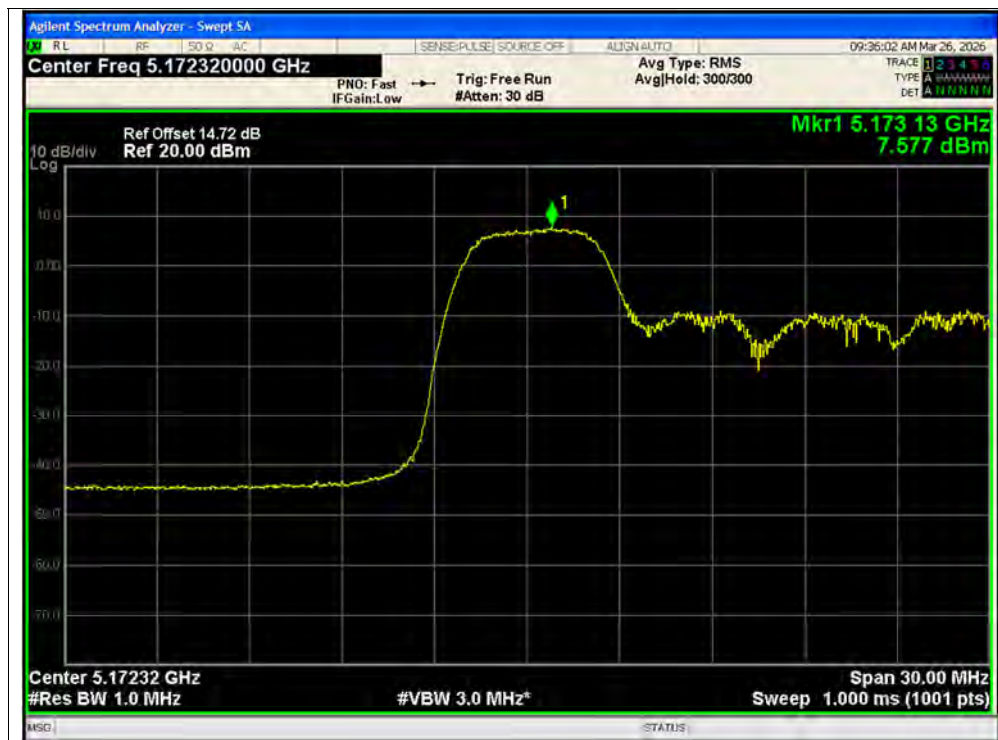
PSD NVNT ax20 52@1 5745MHz Ant1 SISO



PSD NVNT ax20 52@1 5785MHz Ant1 SISO



PSD NVNT ax20 52@1 5825MHz Ant1 SISO



PSD NVNT ax20 52@1 5180MHz Ant2 SISO



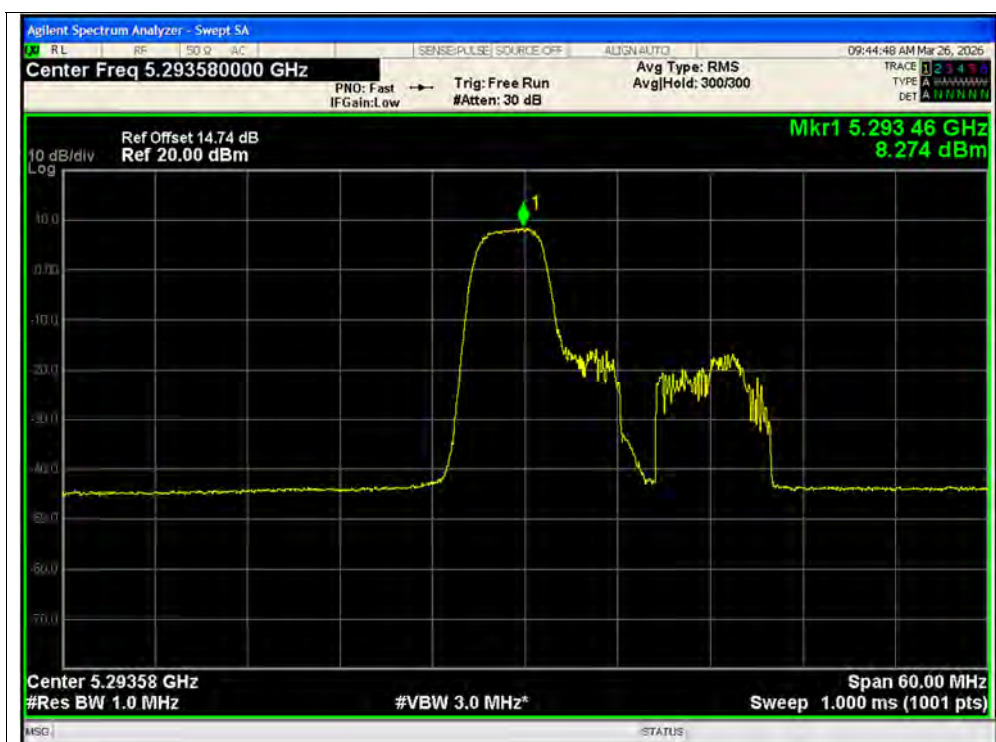
PSD NVNT ax20 52@1 5220MHz Ant2 SISO



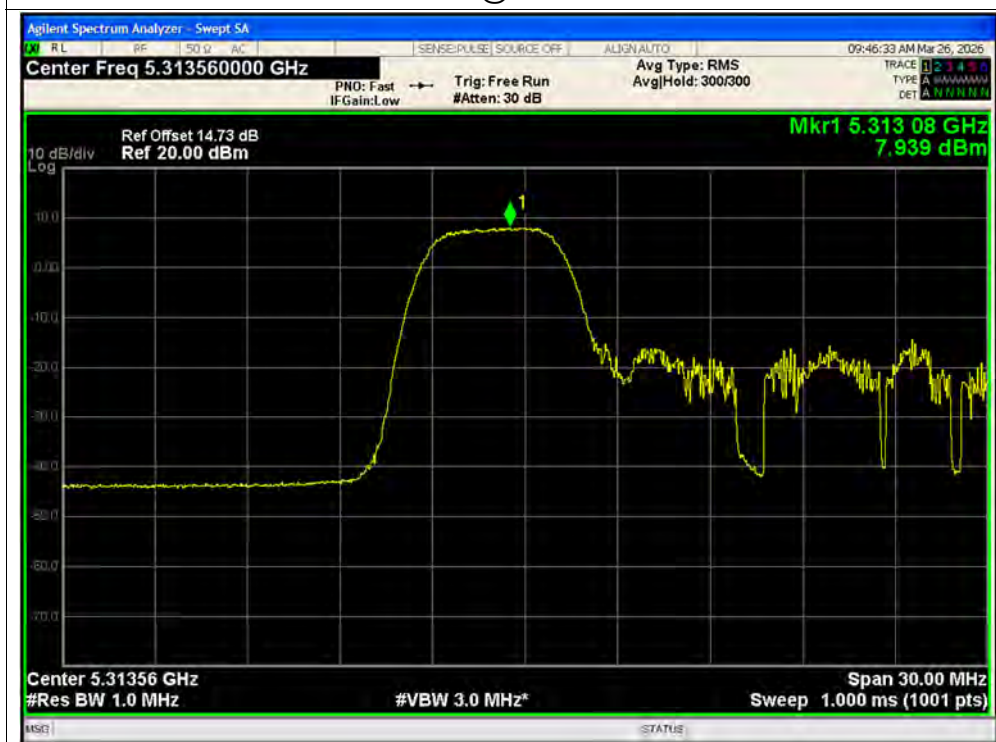
PSD NVNT ax20 52@1 5240MHz Ant2 SISO



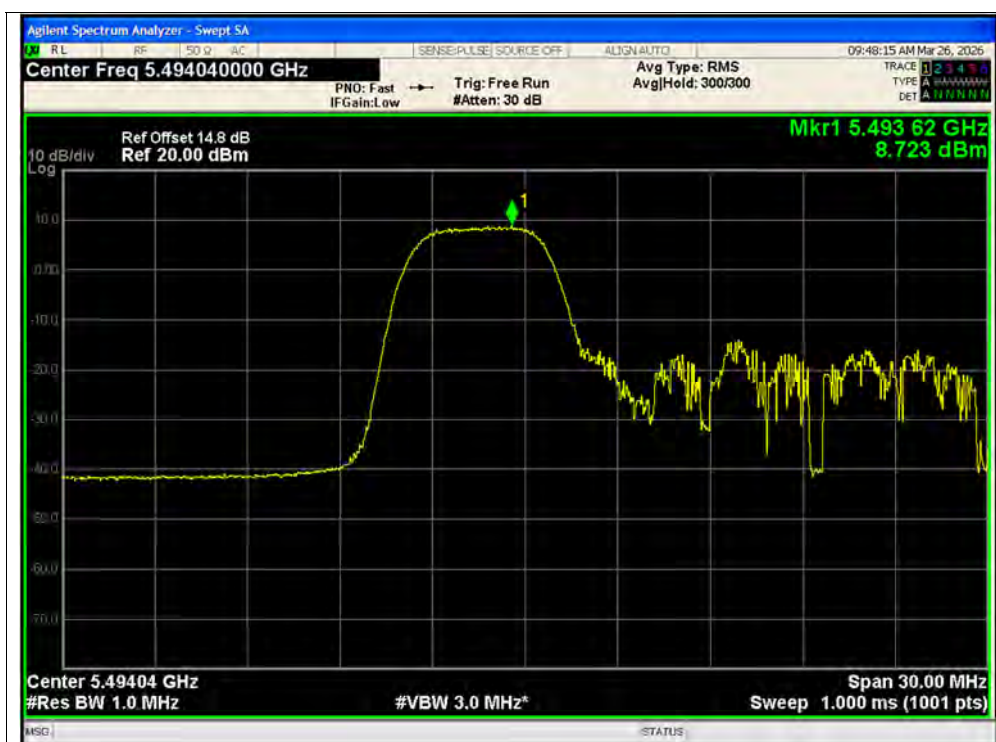
PSD NVNT ax20 52@1 5260MHz Ant2 SISO



PSD NVNT ax20 52@1 5300MHz Ant2 SISO



PSD NVNT ax20 52@1 5320MHz Ant2 SISO



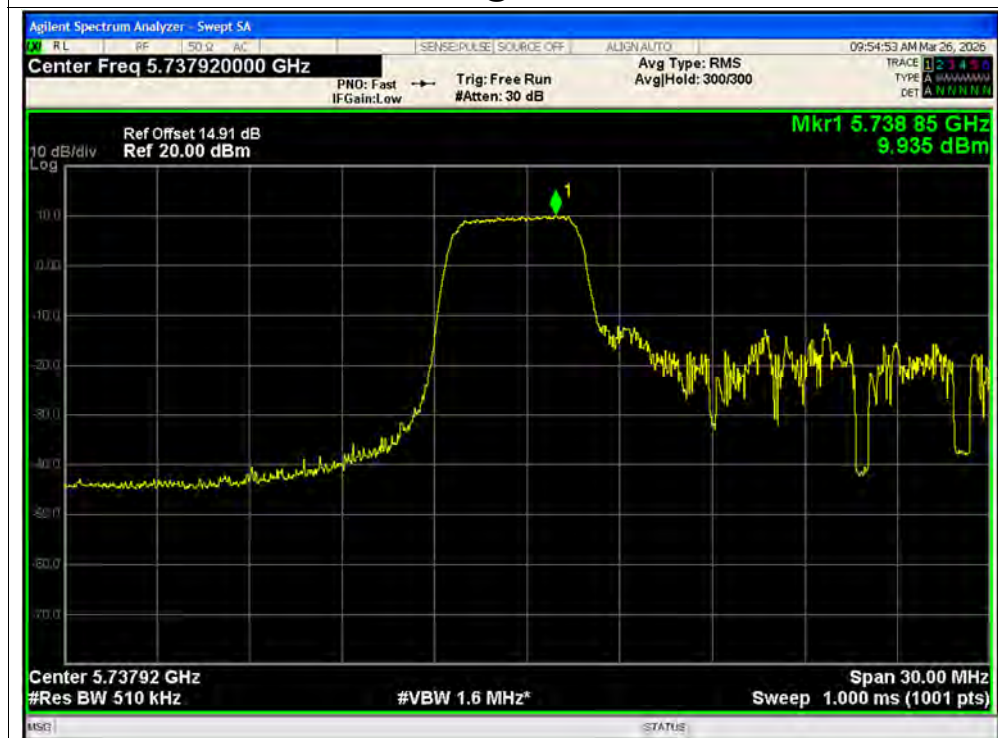
PSD NVNT ax20 52@1 5500MHz Ant2 SISO



PSD NVNT ax20 52@1 5580MHz Ant2 SISO



PSD NVNT ax20 52@1 5720MHz Ant2 SISO



PSD NVNT ax20 52@1 5745MHz Ant2 SISO



PSD NVNT ax20 52@1 5785MHz Ant2 SISO



PSD NVNT ax20 52@1 5825MHz Ant2 SISO



PSD NVNT ax20 52@1 5180MHz Ant1 MIMO



PSD NVNT ax20 52@1 5180MHz Ant2 MIMO



PSD NVNT ax20 52@1 5220MHz Ant1 MIMO



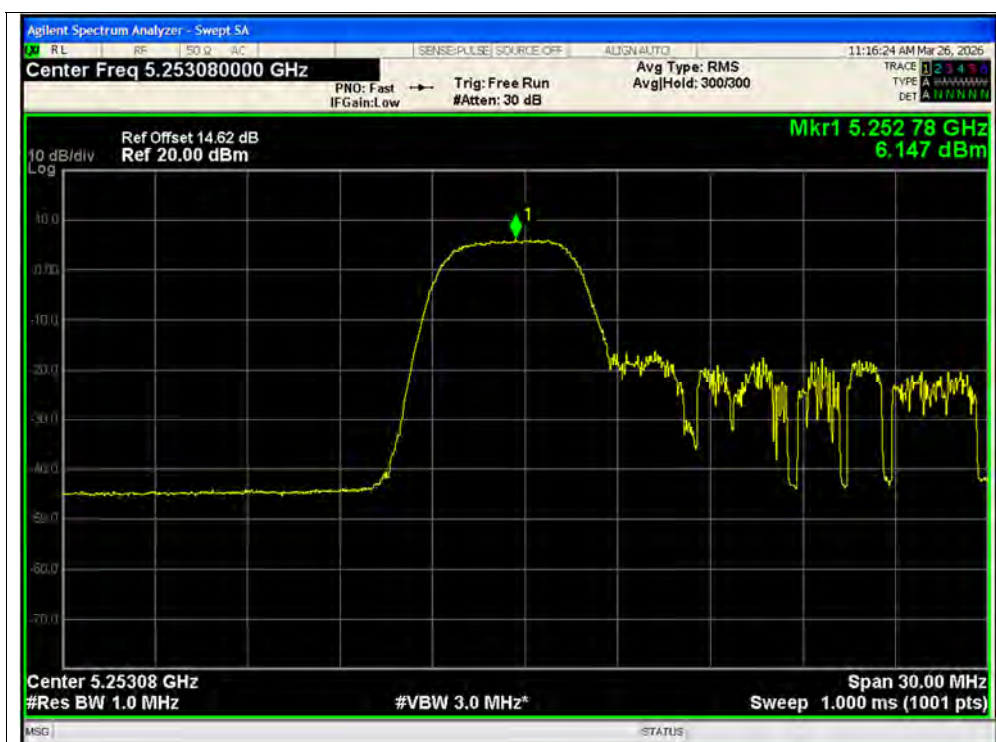
PSD NVNT ax20 52@1 5220MHz Ant2 MIMO



PSD NVNT ax20 52@1 5240MHz Ant1 MIMO



PSD NVNT ax20 52@1 5240MHz Ant2 MIMO



PSD NVNT ax20 52@1 5260MHz Ant1 MIMO



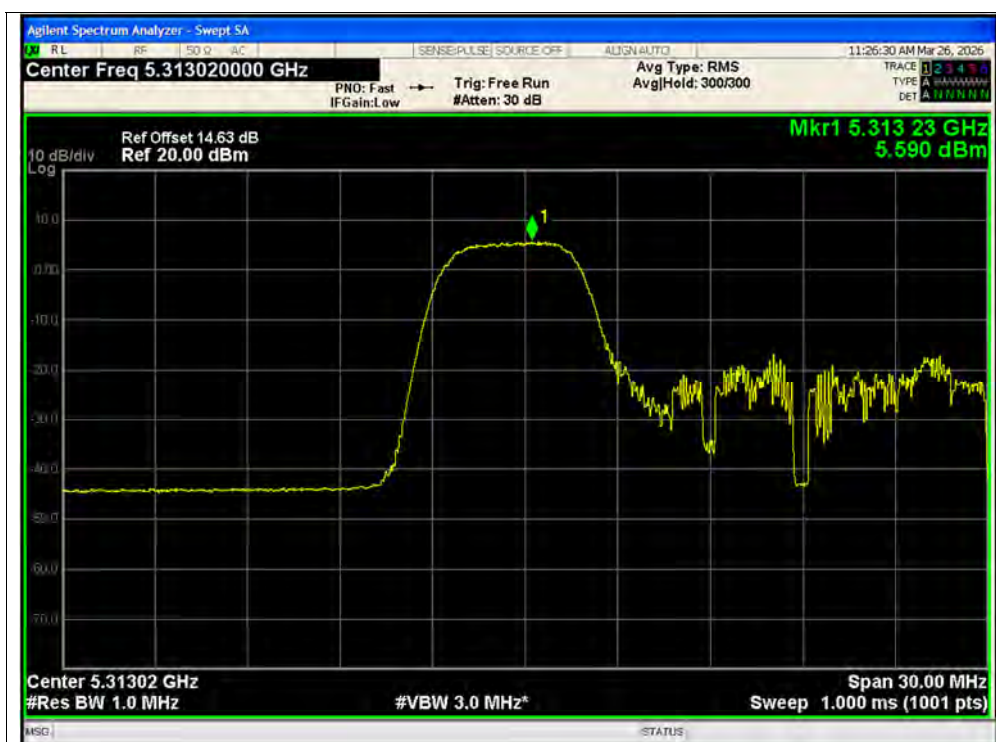
PSD NVNT ax20 52@1 5260MHz Ant2 MIMO



PSD NVNT ax20 52@1 5300MHz Ant1 MIMO



PSD NVNT ax20 52@1 5300MHz Ant2 MIMO



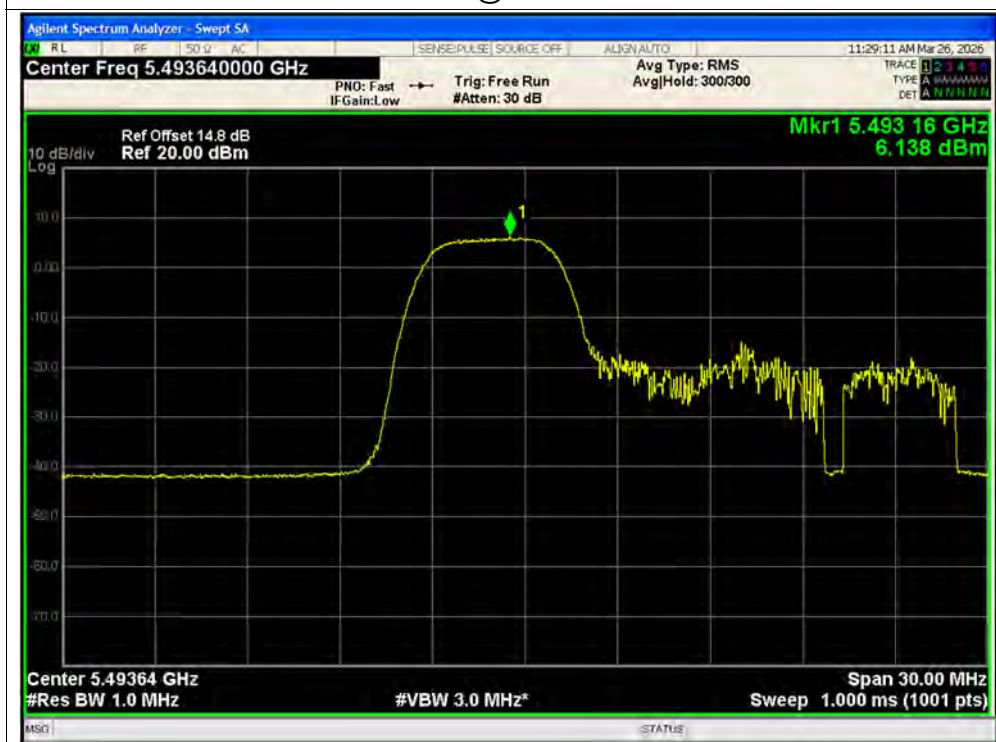
PSD NVNT ax20 52@1 5320MHz Ant1 MIMO



PSD NVNT ax20 52@1 5320MHz Ant2 MIMO



PSD NVNT ax20 52@1 5500MHz Ant1 MIMO



PSD NVNT ax20 52@1 5500MHz Ant2 MIMO



PSD NVNT ax20 52@1 5580MHz Ant1 MIMO



PSD NVNT ax20 52@1 5580MHz Ant2 MIMO



PSD NVNT ax20 52@1 5720MHz Ant1 MIMO



PSD NVNT ax20 52@1 5720MHz Ant2 MIMO



PSD NVNT ax20 52@1 5745MHz Ant1 MIMO



PSD NVNT ax20 52@1 5745MHz Ant2 MIMO



PSD NVNT ax20 52@1 5785MHz Ant1 MIMO



PSD NVNT ax20 52@1 5785MHz Ant2 MIMO



PSD NVNT ax20 52@1 5825MHz Ant1 MIMO



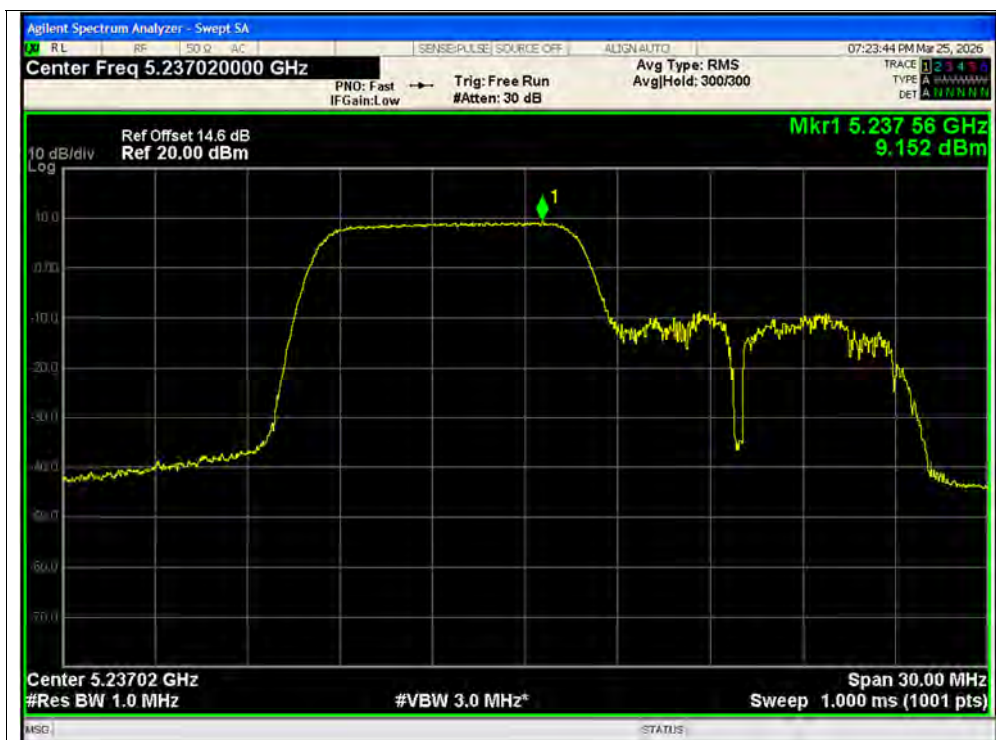
PSD NVNT ax20 52@1 5825MHz Ant2 MIMO



PSD NVNT ax20 106@1 5180MHz Ant1 SISO



PSD NVNT ax20 106@1 5220MHz Ant1 SISO



PSD NVNT ax20 106@1 5240MHz Ant1 SISO



PSD NVNT ax20 106@1 5260MHz Ant1 SISO



PSD NVNT ax20 106@1 5300MHz Ant1 SISO



PSD NVNT ax20 106@1 5320MHz Ant1 SISO



PSD NVNT ax20 106@1 5500MHz Ant1 SISO



PSD NVNT ax20 106@1 5580MHz Ant1 SISO



PSD NVNT ax20 106@1 5720MHz Ant1 SISO



PSD NVNT ax20 106@1 5745MHz Ant1 SISO



PSD NVNT ax20 106@1 5785MHz Ant1 SISO



PSD NVNT ax20 106@1 5825MHz Ant1 SISO



PSD NVNT ax20 106@1 5180MHz Ant2 SISO



PSD NVNT ax20 106@1 5220MHz Ant2 SISO



PSD NVNT ax20 106@1 5240MHz Ant2 SISO



PSD NVNT ax20 106@1 5260MHz Ant2 SISO



PSD NVNT ax20 106@1 5300MHz Ant2 SISO



PSD NVNT ax20 106@1 5320MHz Ant2 SISO





PSD NVNT ax20 106@1 5720MHz Ant2 SISO



PSD NVNT ax20 106@1 5745MHz Ant2 SISO



PSD NVNT ax20 106@1 5785MHz Ant2 SISO



PSD NVNT ax20 106@1 5825MHz Ant2 SISO



PSD NVNT ax20 106@1 5180MHz Ant1 MIMO



PSD NVNT ax20 106@1 5180MHz Ant2 MIMO



PSD NVNT ax20 106@1 5220MHz Ant1 MIMO



PSD NVNT ax20 106@1 5220MHz Ant2 MIMO



PSD NVNT ax20 106@1 5240MHz Ant1 MIMO



PSD NVNT ax20 106@1 5240MHz Ant2 MIMO



PSD NVNT ax20 106@1 5260MHz Ant1 MIMO



PSD NVNT ax20 106@1 5260MHz Ant2 MIMO



PSD NVNT ax20 106@1 5300MHz Ant1 MIMO



PSD NVNT ax20 106@1 5300MHz Ant2 MIMO



PSD NVNT ax20 106@1 5320MHz Ant1 MIMO



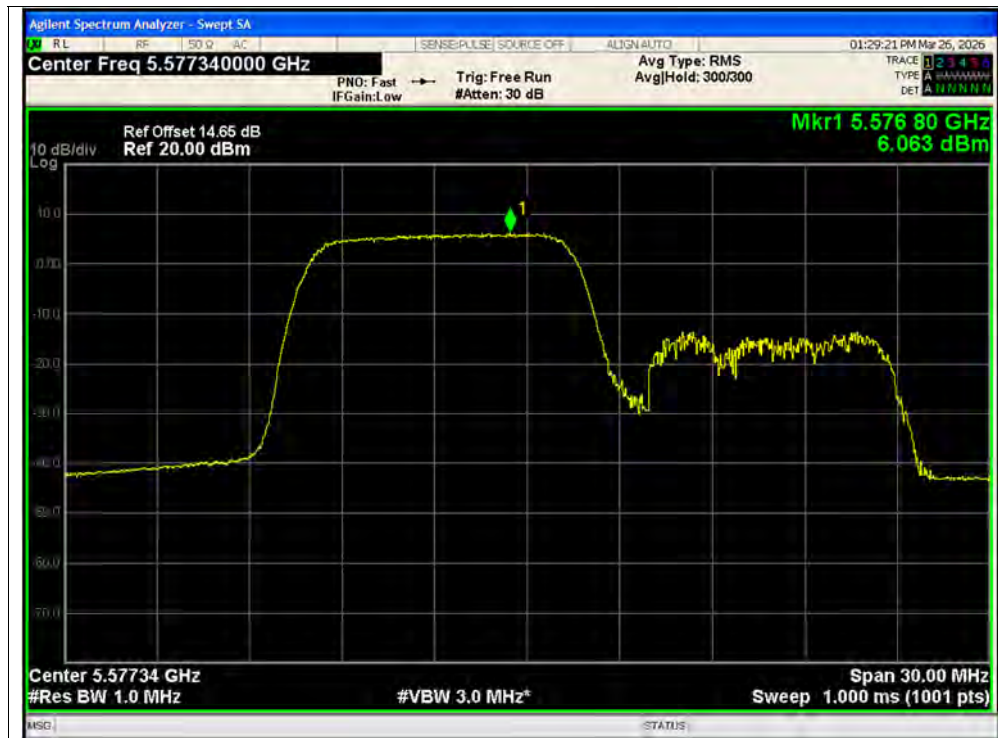
PSD NVNT ax20 106@1 5320MHz Ant2 MIMO



PSD NVNT ax20 106@1 5500MHz Ant1 MIMO



PSD NVNT ax20 106@1 5500MHz Ant2 MIMO



PSD NVNT ax20 106@1 5580MHz Ant1 MIMO



PSD NVNT ax20 106@1 5580MHz Ant2 MIMO



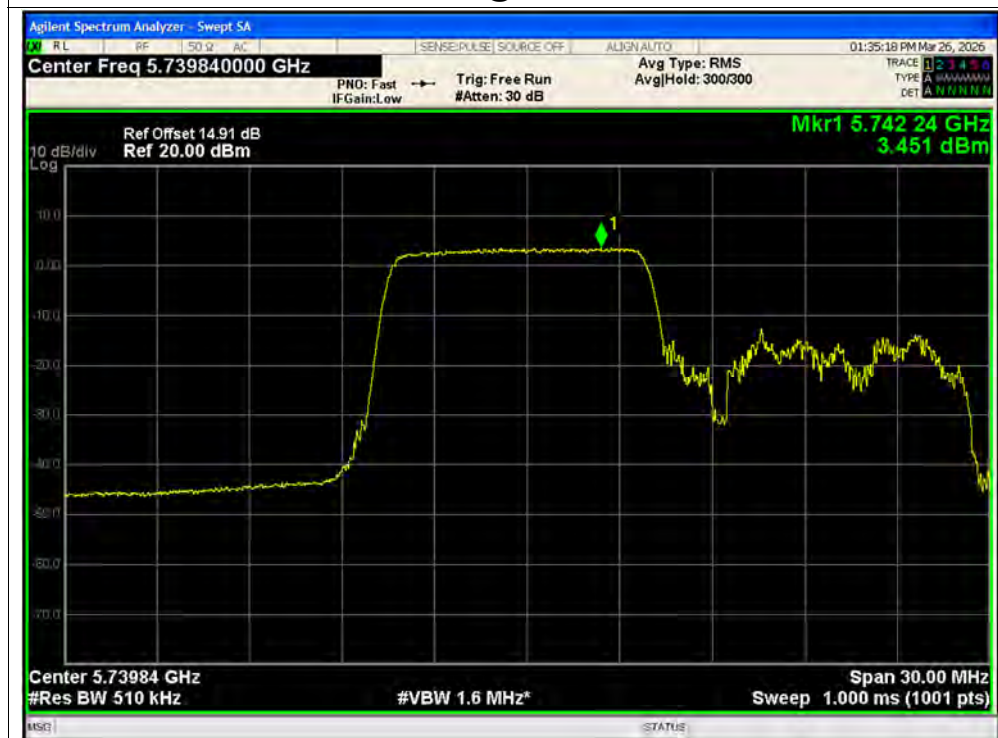
PSD NVNT ax20 106@1 5720MHz Ant1 MIMO



PSD NVNT ax20 106@1 5720MHz Ant2 MIMO



PSD NVNT ax20 106@1 5745MHz Ant1 MIMO



PSD NVNT ax20 106@1 5745MHz Ant2 MIMO



PSD NVNT ax20 106@1 5785MHz Ant1 MIMO



PSD NVNT ax20 106@1 5785MHz Ant2 MIMO



PSD NVNT ax20 106@1 5825MHz Ant1 MIMO



PSD NVNT ax20 106@1 5825MHz Ant2 MIMO



PSD NVNT ax40 26@1 5190MHz Ant1 SISO



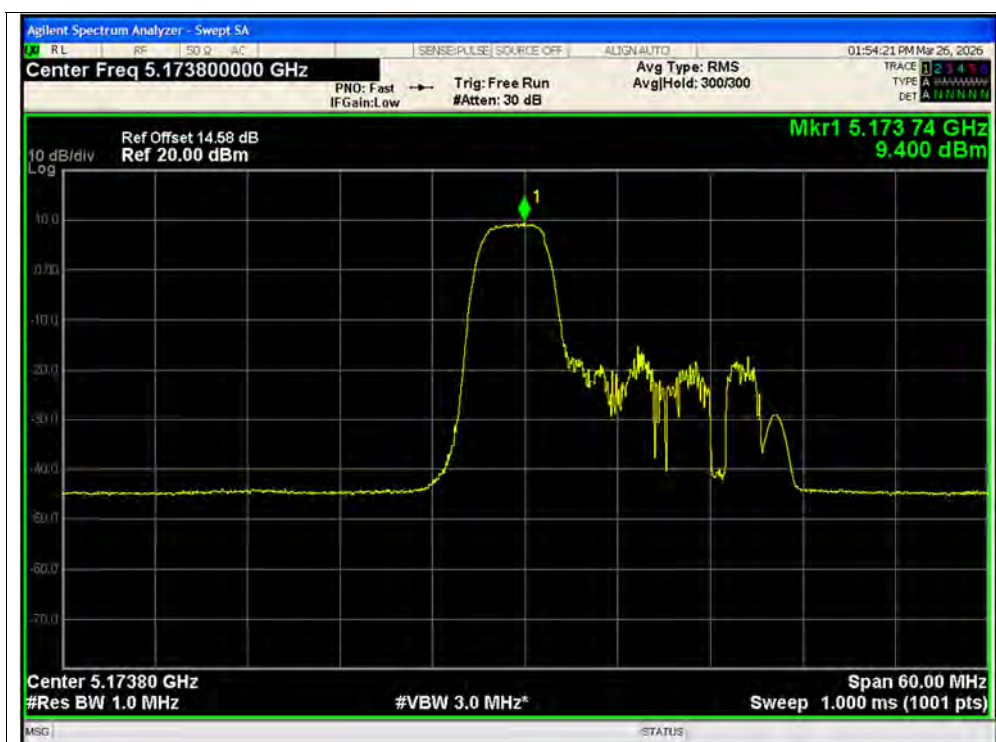
PSD NVNT ax40 26@1 5190MHz Ant2 SISO



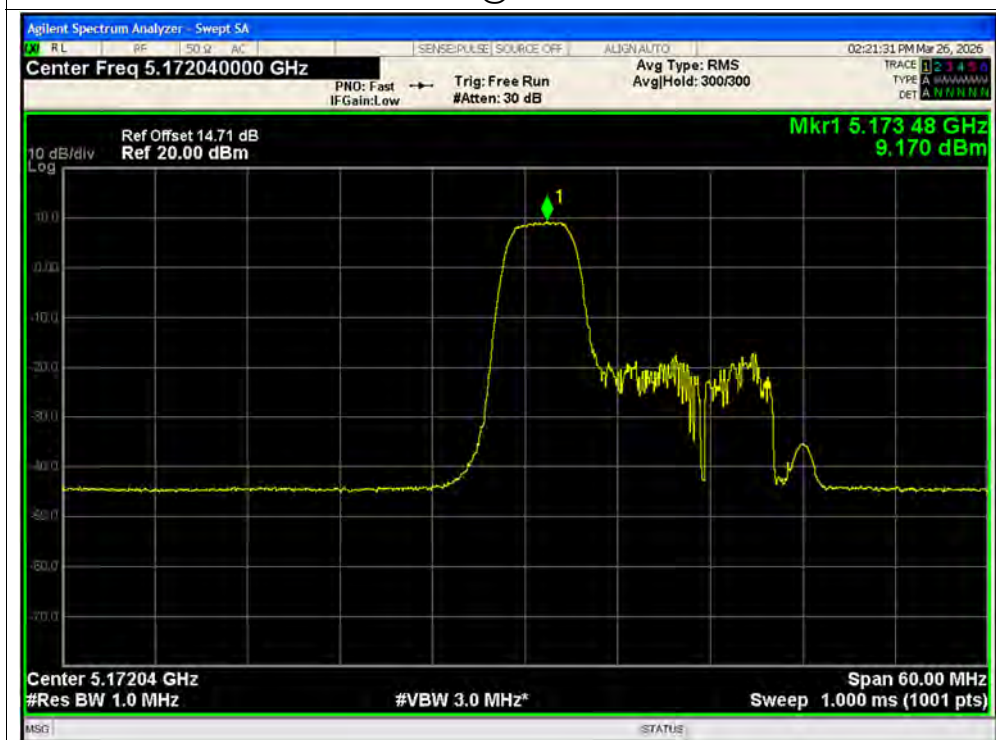
PSD NVNT ax40 26@1 5190MHz Ant1 MIMO



PSD NVNT ax40 26@1 5190MHz Ant2 MIMO



PSD NVNT ax40 52@1 5190MHz Ant1 SISO



PSD NVNT ax40 52@1 5190MHz Ant2 SISO



PSD NVNT ax40 52@1 5190MHz Ant1 MIMO



PSD NVNT ax40 52@1 5190MHz Ant2 MIMO



PSD NVNT ax40 106@1 5190MHz Ant1 SISO



PSD NVNT ax40 106@1 5190MHz Ant2 SISO



PSD NVNT ax40 106@1 5190MHz Ant1 MIMO



PSD NVNT ax40 106@1 5190MHz Ant2 MIMO



PSD NVNT ax40 242@1 5190MHz Ant1 SISO



PSD NVNT ax40 242@1 5190MHz Ant2 SISO



PSD NVNT ax40 242@1 5190MHz Ant1 MIMO



PSD NVNT ax40 242@1 5190MHz Ant2 MIMO

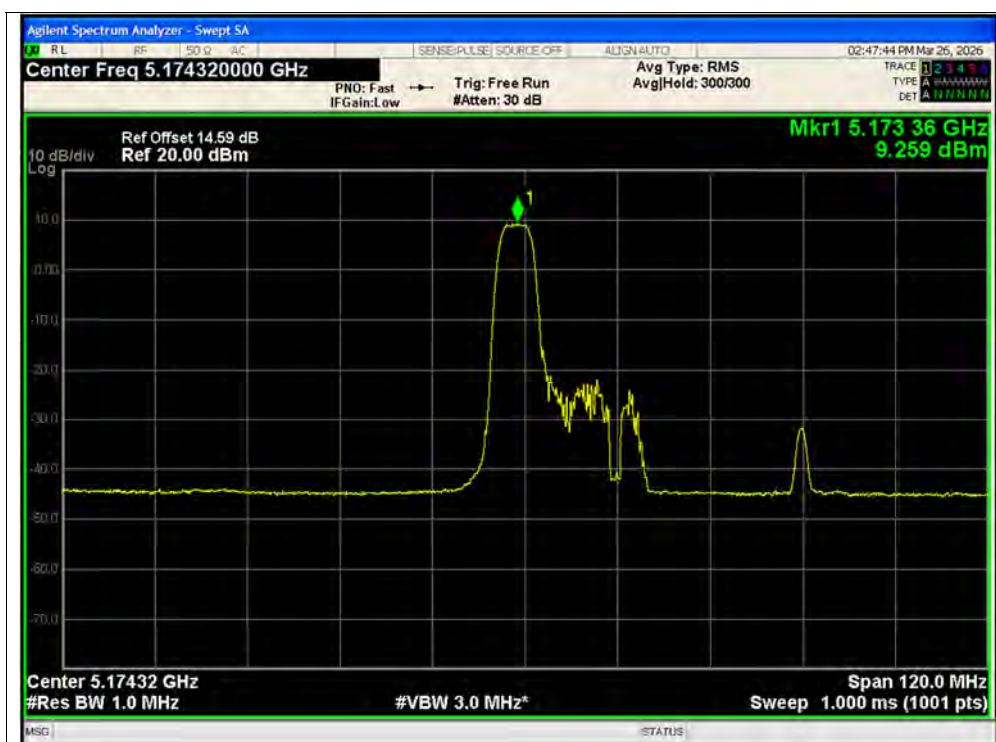


PSD NVNT ax80 26@1 5210MHz Ant1 SISO

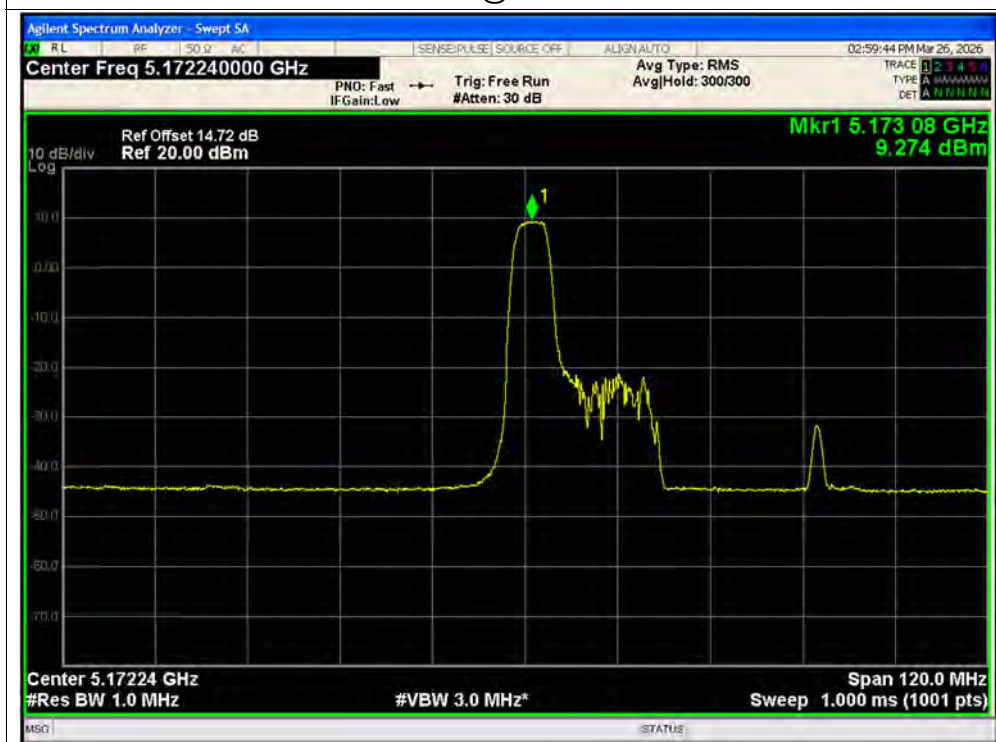


PSD NVNT ax80 26@1 5210MHz Ant2 SISO





PSD NVNT ax80 52@1 5210MHz Ant1 SISO



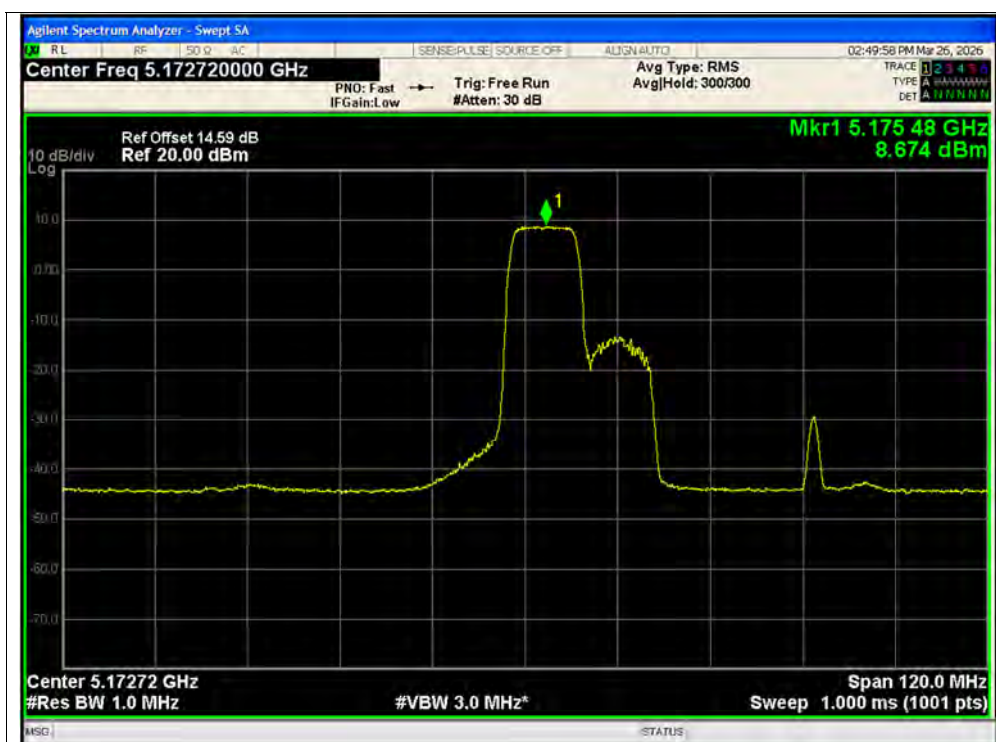
PSD NVNT ax80 52@1 5210MHz Ant2 SISO



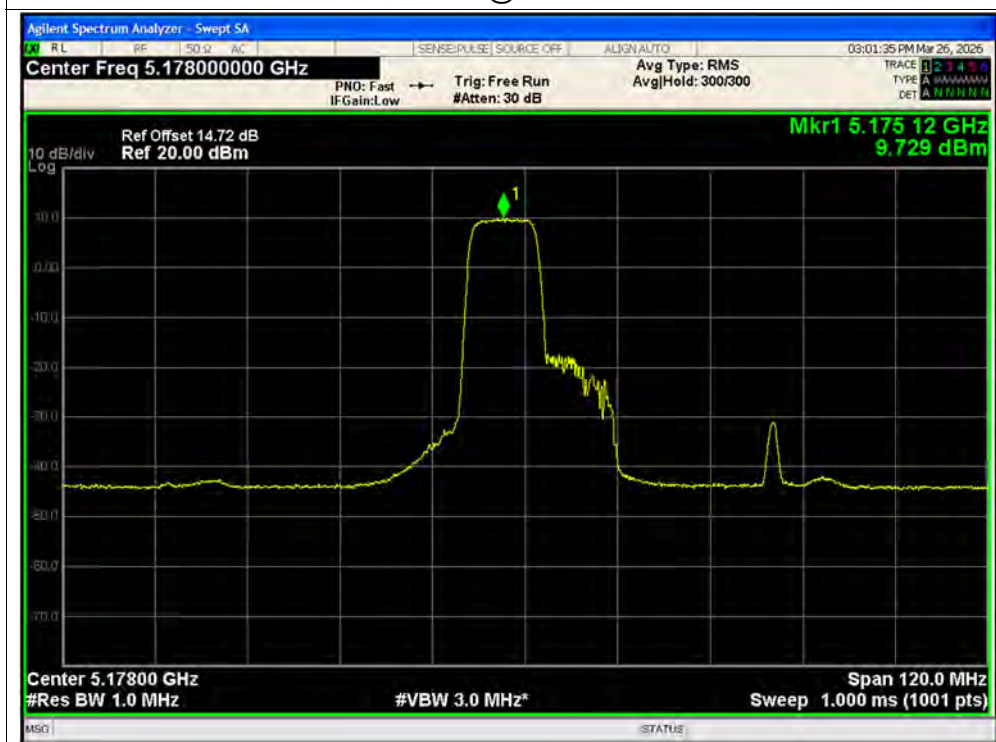
PSD NVNT ax80 52@1 5210MHz Ant1 MIMO



PSD NVNT ax80 52@1 5210MHz Ant2 MIMO



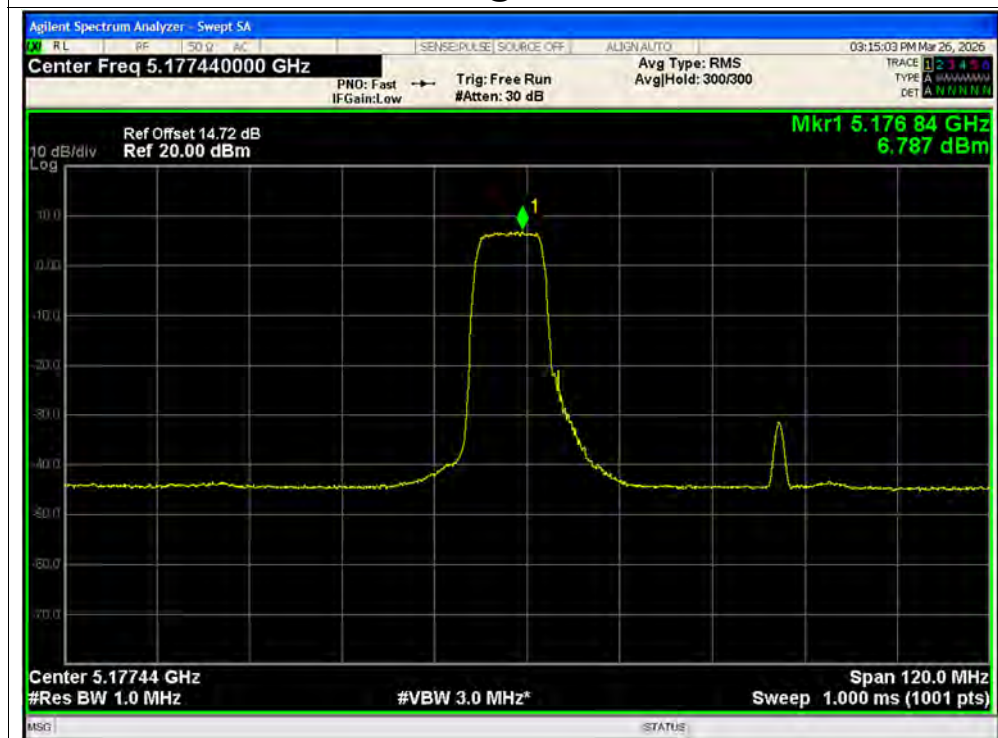
PSD NVNT ax80 106@1 5210MHz Ant1 SISO



PSD NVNT ax80 106@1 5210MHz Ant2 SISO



PSD NVNT ax80 106@1 5210MHz Ant1 MIMO



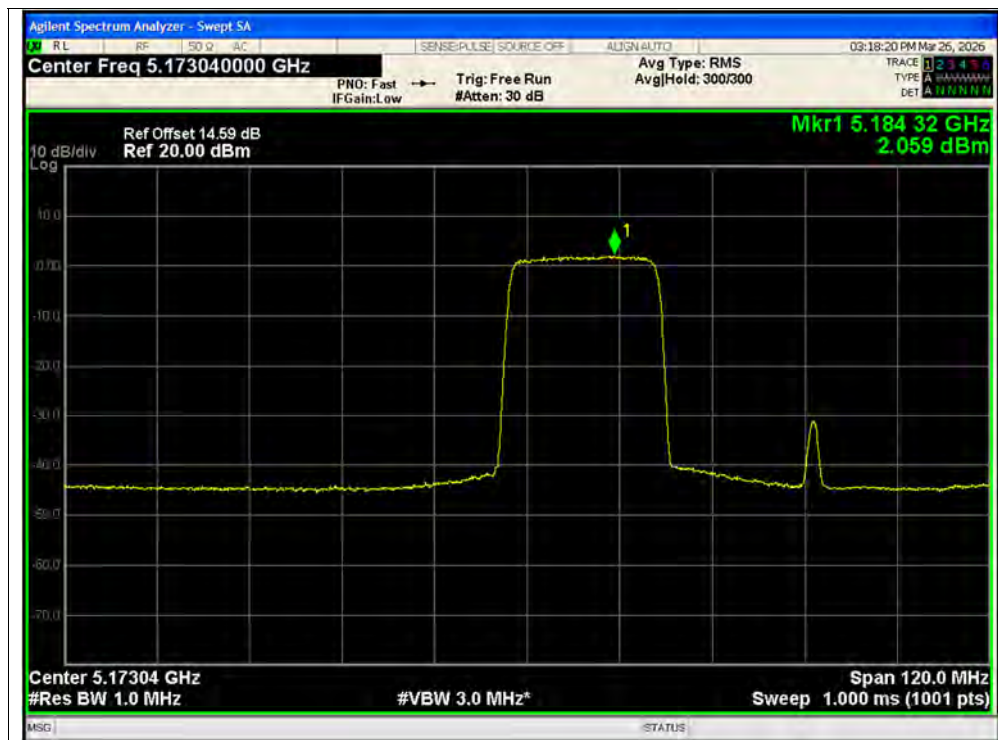
PSD NVNT ax80 106@1 5210MHz Ant2 MIMO



PSD NVNT ax80 242@1 5210MHz Ant1 SISO



PSD NVNT ax80 242@1 5210MHz Ant2 SISO



PSD NVNT ax80 242@1 5210MHz Ant1 MIMO



PSD NVNT ax80 242@1 5210MHz Ant2 MIMO



PSD NVNT ax80 484@1 5210MHz Ant1 SISO



PSD NVNT ax80 484@1 5210MHz Ant2 SISO



PSD NVNT ax80 484@1 5210MHz Ant1 MIMO



PSD NVNT ax80 484@1 5210MHz Ant2 MIMO

**A.5. Frequency Stability**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 3.4V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 4.25V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 3.6V	CW SISO	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
0C 3.6V	CW SISO	5180	Ant1	5179.94	-60000	-11.58	25	Pass
10C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
40C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 3.6V	CW SISO	5180	Ant1	5179.96	-40000	-7.72	25	Pass
55C 3.6V	CW SISO	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 3.4V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 4.25V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
-20C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
-10C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
0C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
10C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
30C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
40C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
50C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
55C 3.6V	CW SISO	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 3.4V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 4.25V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
-20C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
-10C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
0C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
10C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
30C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
40C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass



REPORT No.: SZ26010451W04

50C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
55C 3.6V	CW SISO	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 3.4V	CW SISO	5745	Ant1	5744.94	-60000	-10.44	25	Pass
20C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
20C 4.25V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-20C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
-10C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
0C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
10C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
30C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
40C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
50C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass
55C 3.6V	CW SISO	5745	Ant1	5744.96	-40000	-6.96	25	Pass

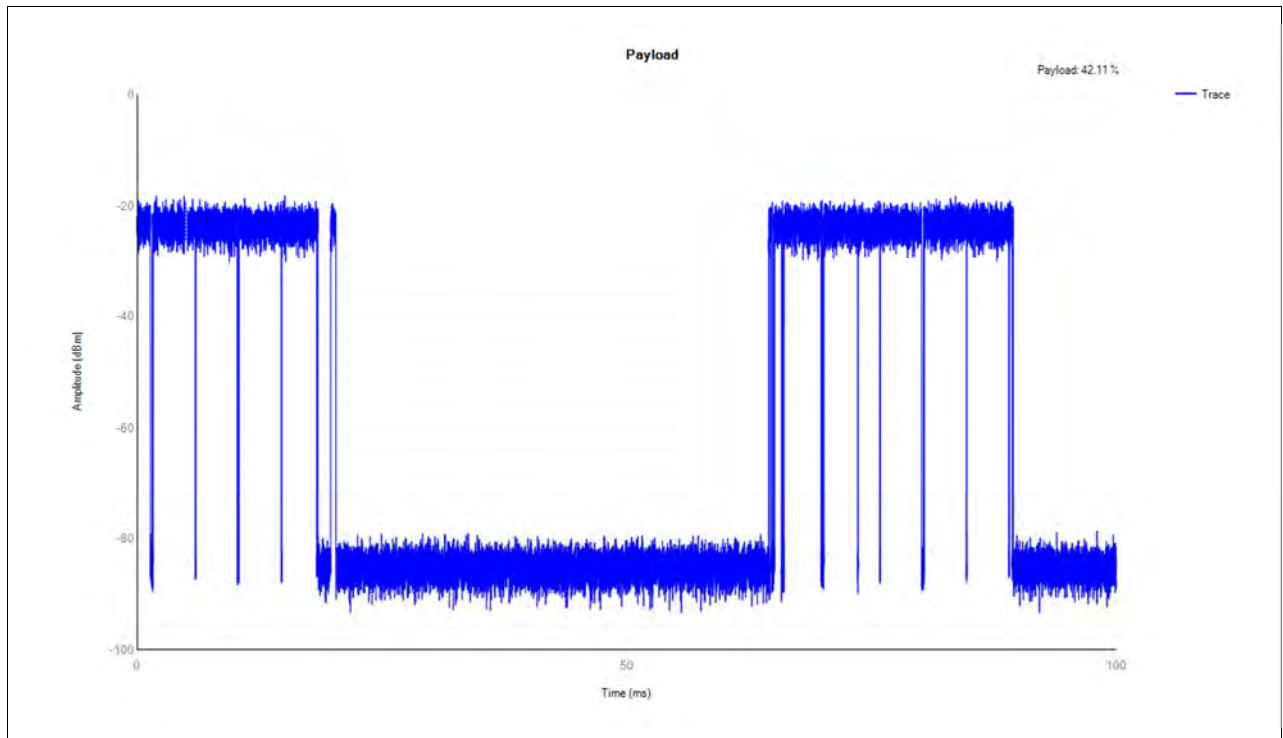


REPORT No.: SZ26010451W04

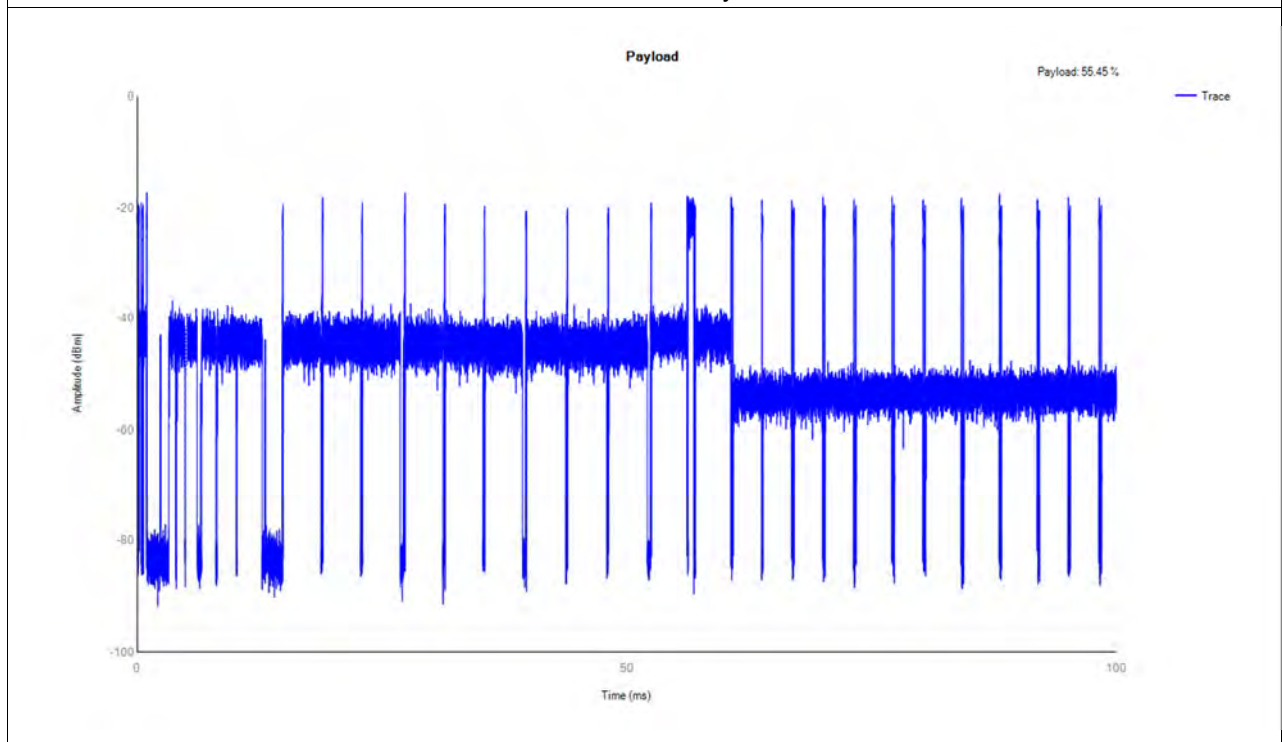
A.6. Dynamic Frequency Selection

Payload

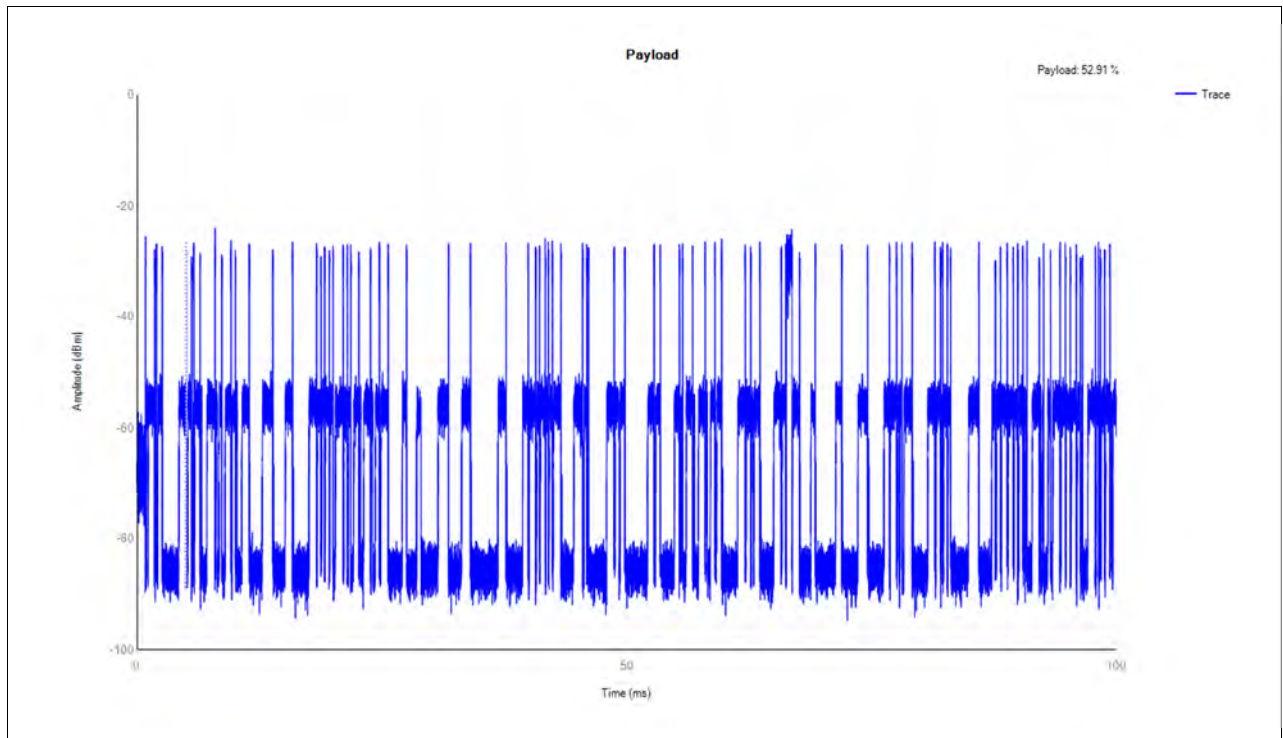
Mode	Frequency (MHz)	Result (%)	Verdict
ax20	5320	42.11	Pass
ax20	5500	55.45	Pass
ax80	5290	52.91	Pass
ax80	5530	36.49	Pass



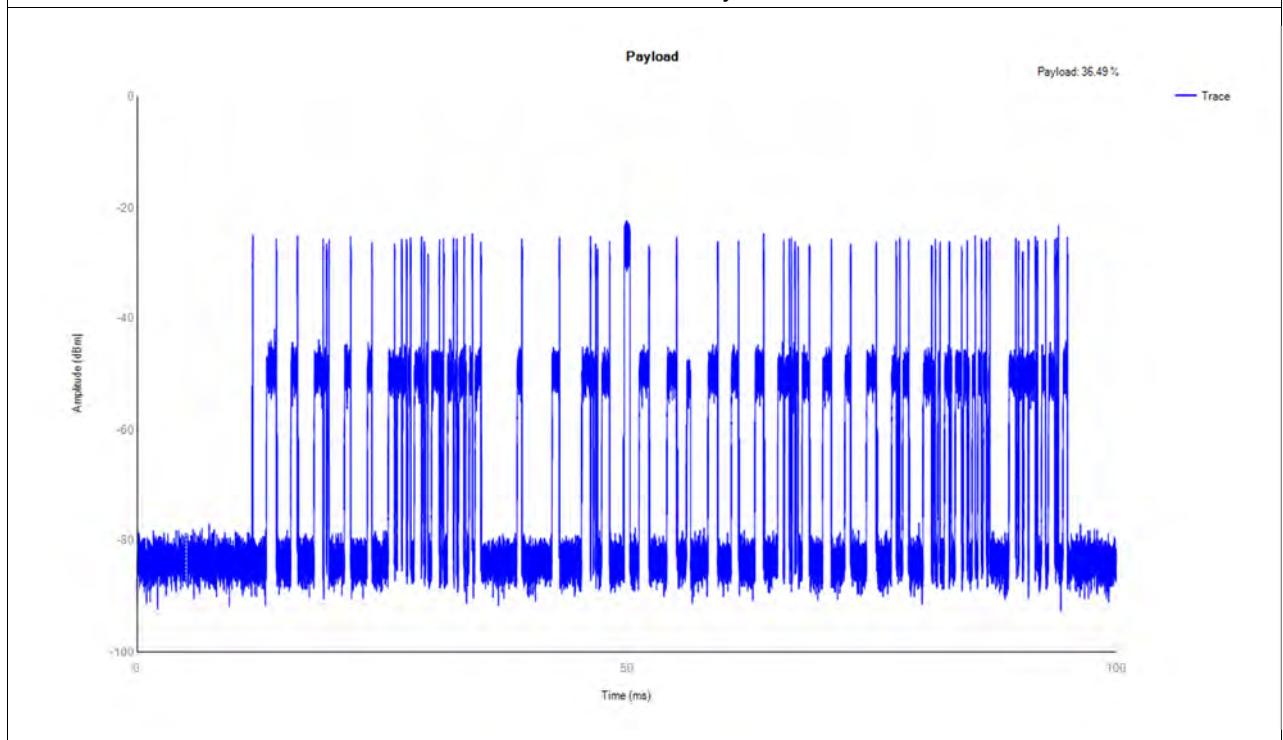
ax20 5320MHz Payload



ax20 5500MHz Payload



ax80 5290MHz Payload



ax80 5530MHz Payload



Detection Thresholds

Mode	Frequency (MHz)	Type	Result	Verdict
ax20	5320	DFS_FCC_T0	See test Graph	Pass
ax20	5500	DFS_FCC_T0	See test Graph	Pass
ax80	5290	DFS_FCC_T0	See test Graph	Pass
ax80	5530	DFS_FCC_T0	See test Graph	Pass

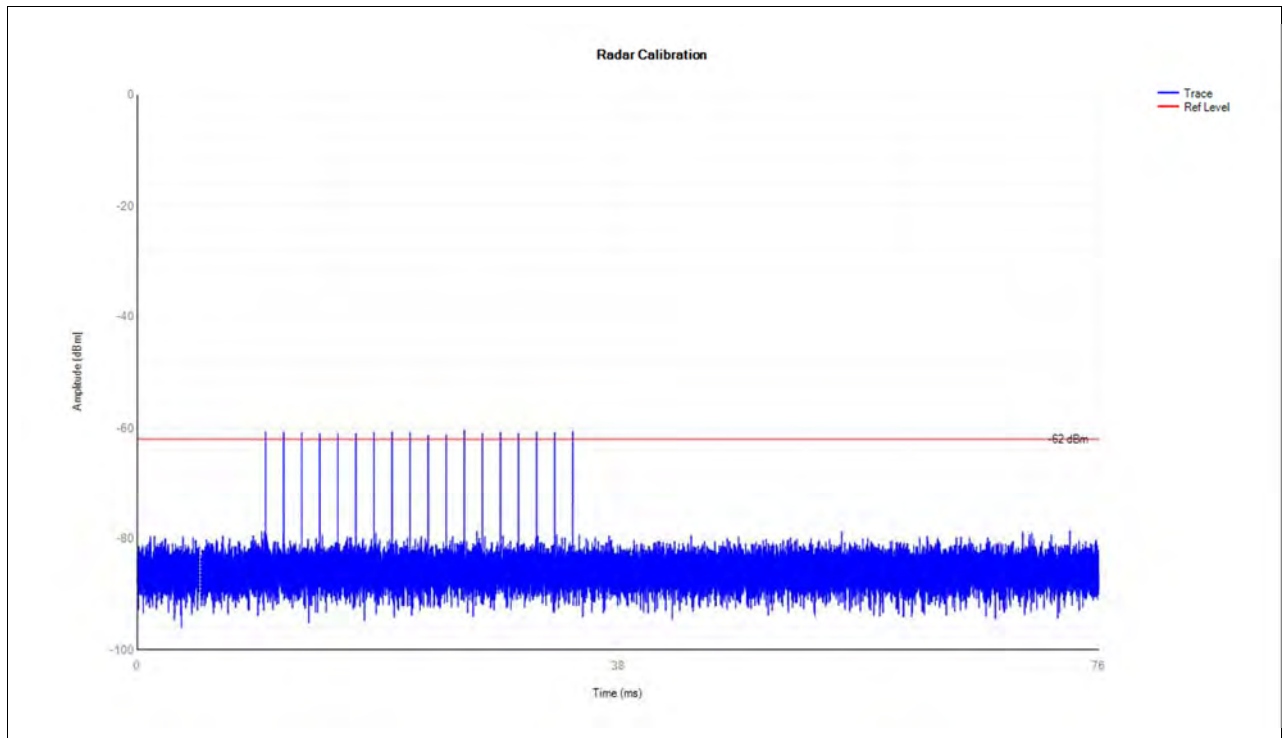
Spectrum analyzer settings:

Span: Zero

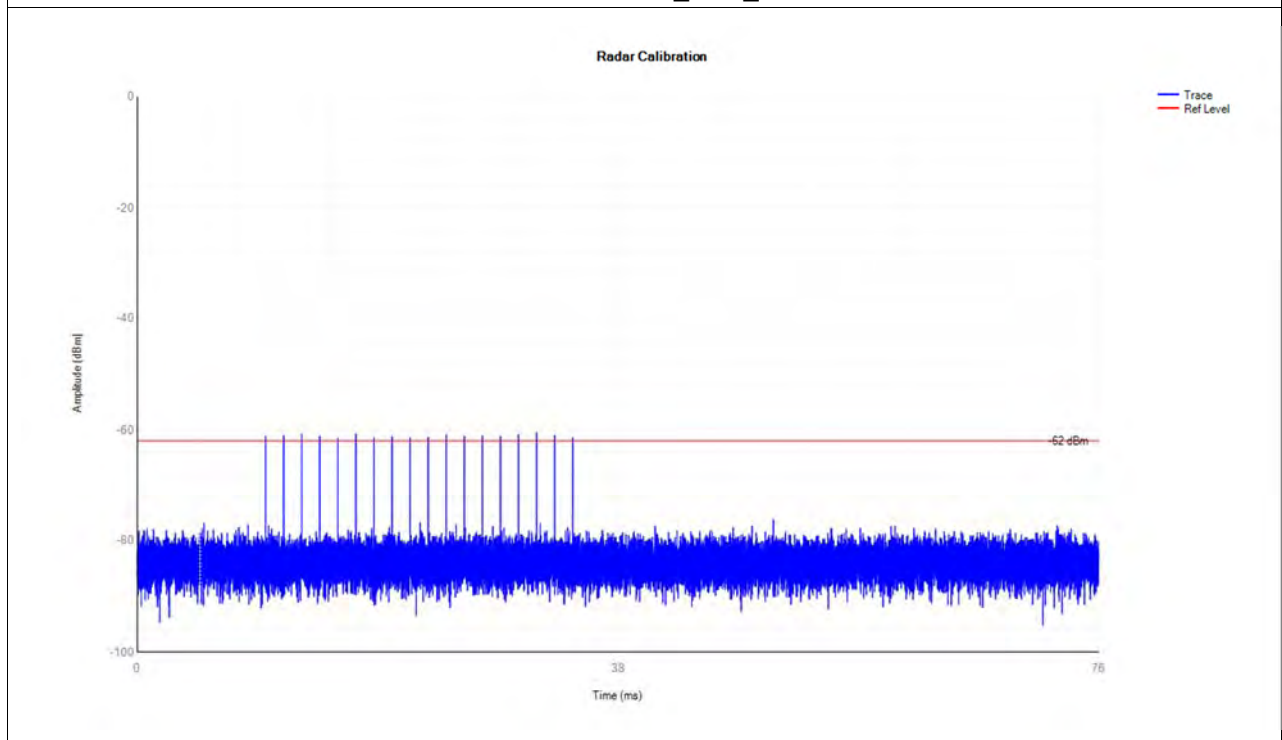
Detector Type: Peak

RBW: 3MHz

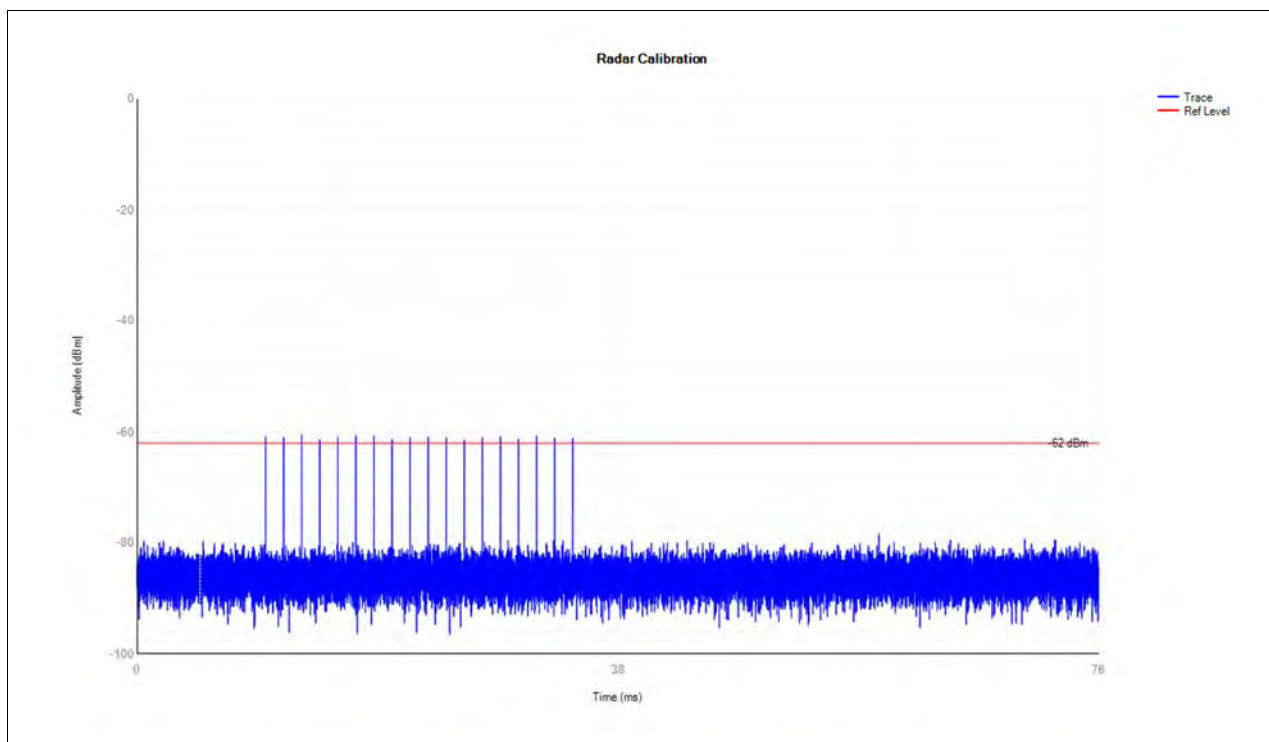
VBW: 3MHz



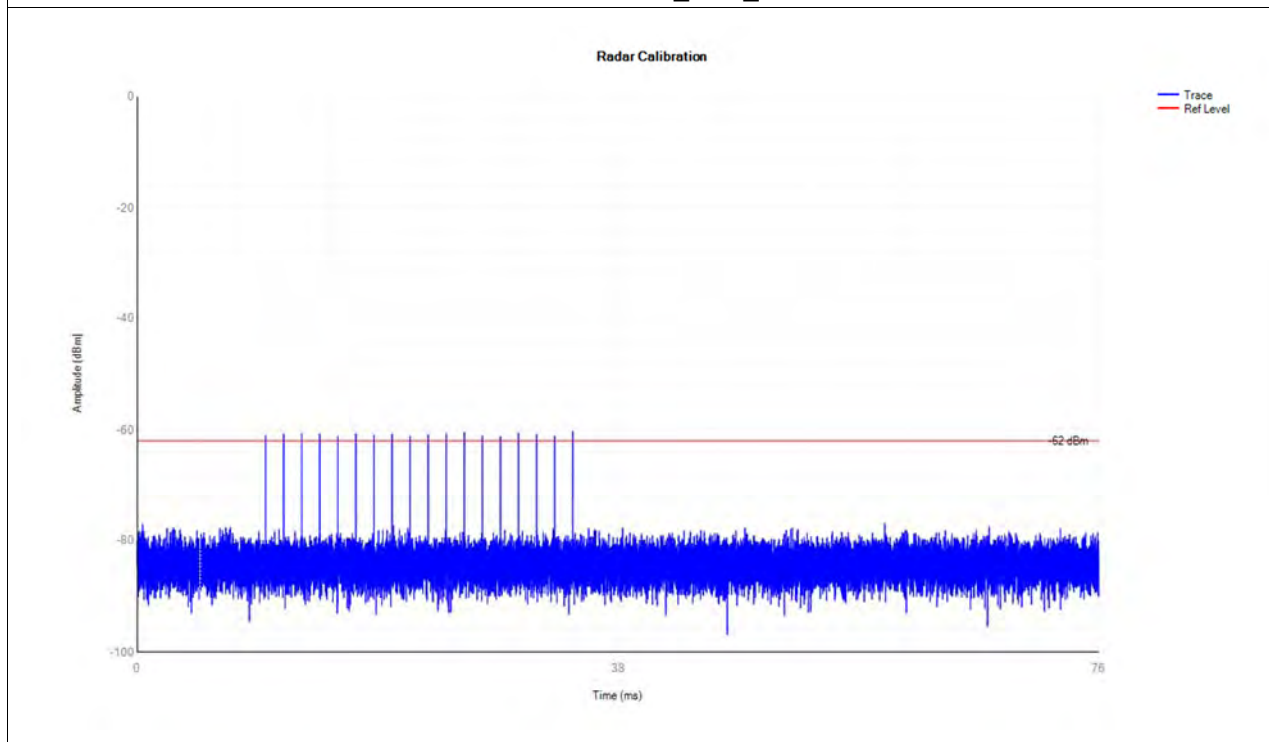
5320MHz DFS_FCC_T0



5500MHz DFS_FCC_T0



5290MHz DFS_FCC_T0



5530MHz 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
ax20	5320	0.842	10	0.013	0.26	0.008	0.06	Pass
ax20	5500	0.878	10	0.019	0.26	0.009	0.06	Pass
ax80	5290	0.766	10	0.015	0.26	0.008	0.06	Pass
ax80	5530	0.815	10	0.02	0.26	0.009	0.06	Pass

Spectrum analyzer settings:

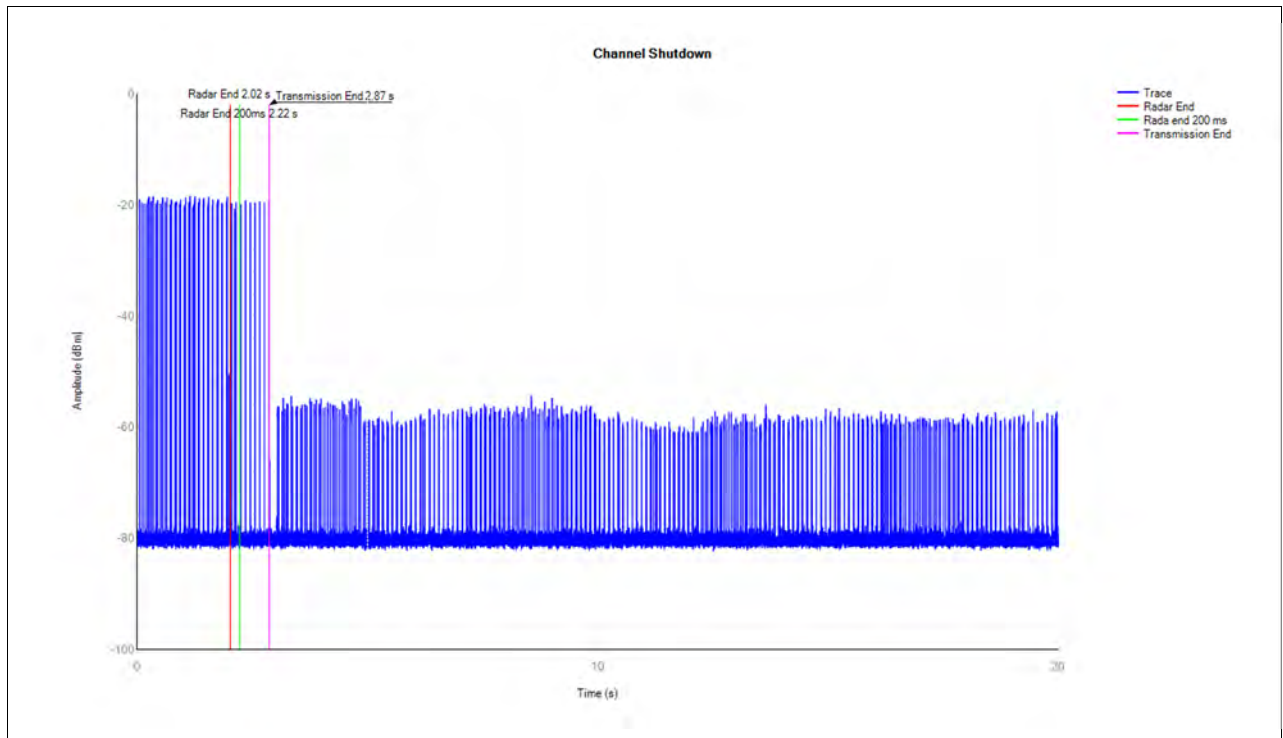
Span: Zero

Detector type: Peak

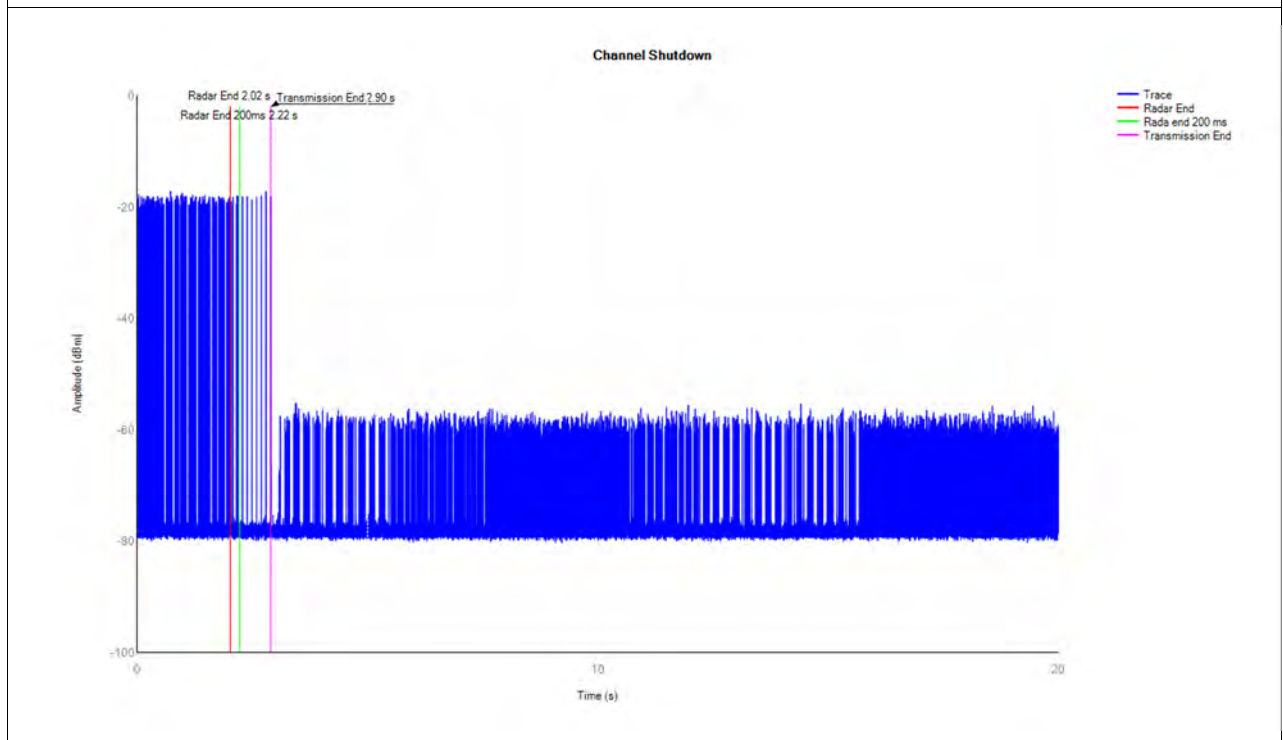
RBW: 3MHz

VBW: 3MHz

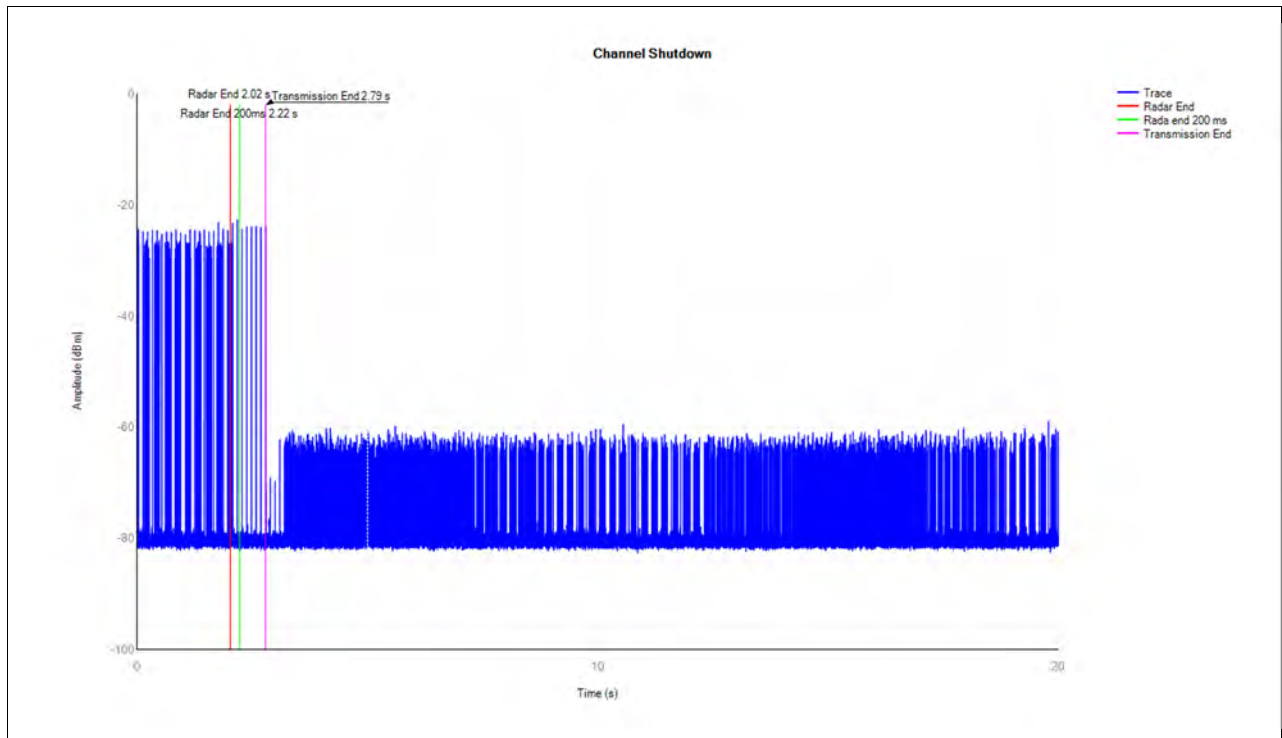
Sweep time: 20s



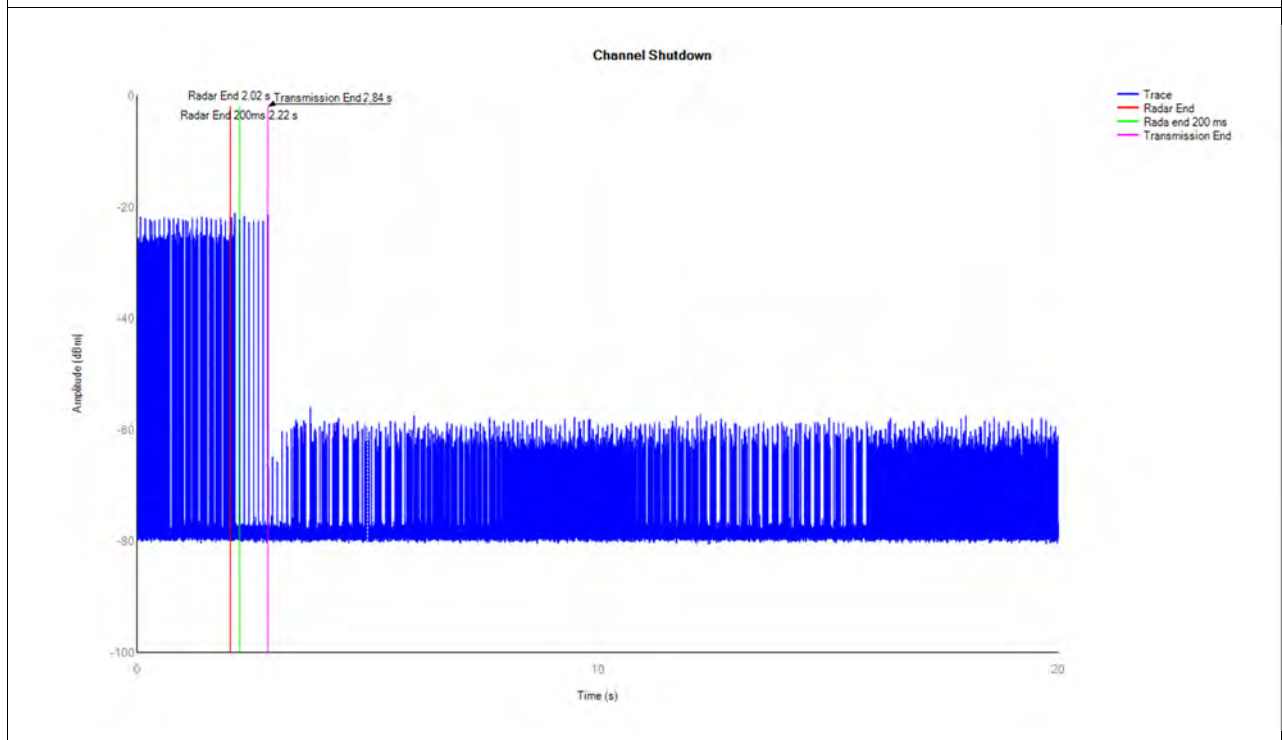
ax20 5320MHz Shutdown



ax20 5500MHz Shutdown



ax80 5290MHz Shutdown



ax80 5530MHz 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.



Non-Occupancy Period

Mode	Frequency (MHz)	Result	Verdict
ax20	5320	See test Graph	Pass
ax20	5500	See test Graph	Pass

Spectrum analyzer settings:

Span: Zero

Detector type: Peak

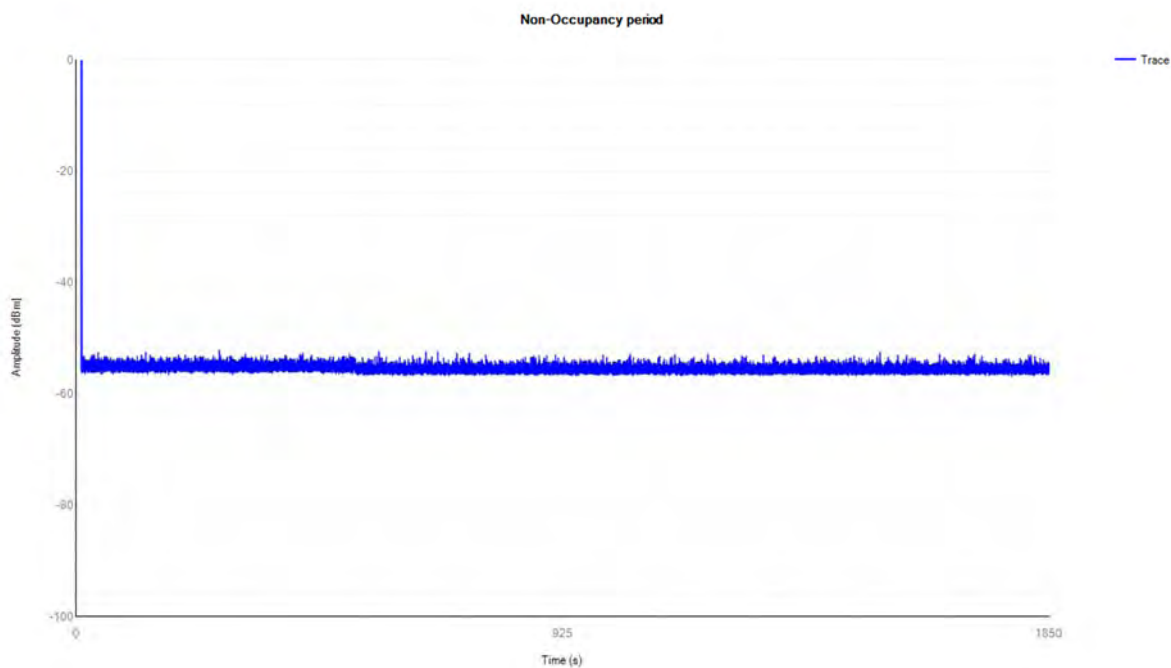
RBW: 3MHz

VBW: 3MHz

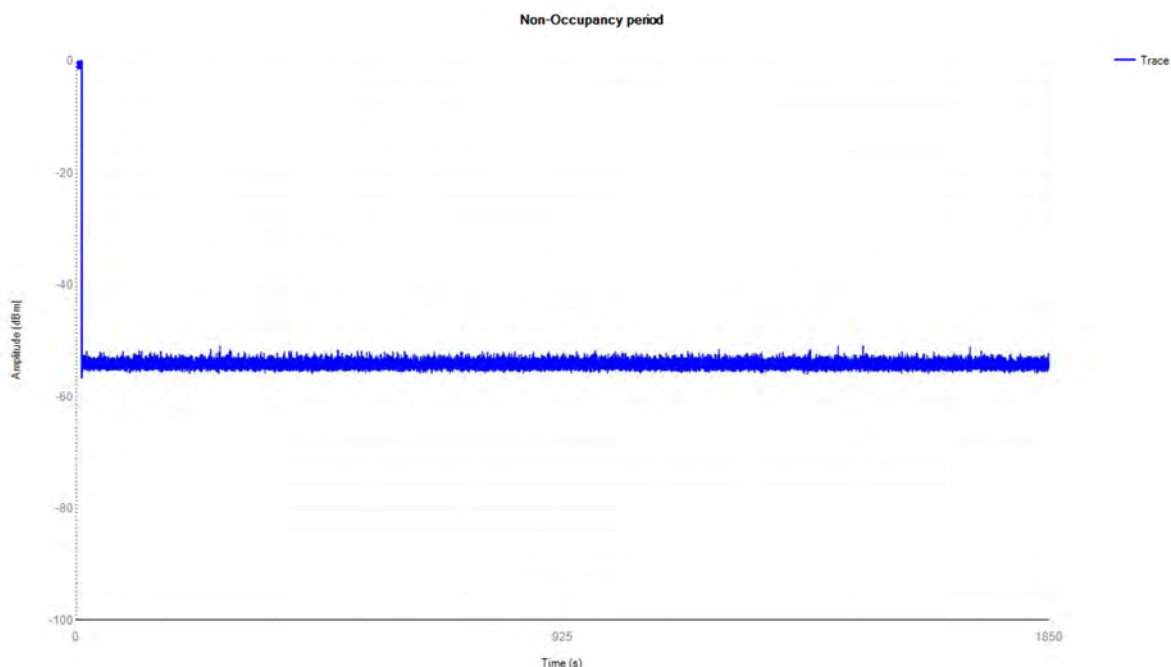
Sweep time: 1850s

Test Graphs

ax20 5320MHz Non-Occupancy



ax20 5500MHz 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+Notebook+Notebook adapter+USB cable +WIFI TX

Test voltage: AC 120V/60Hz

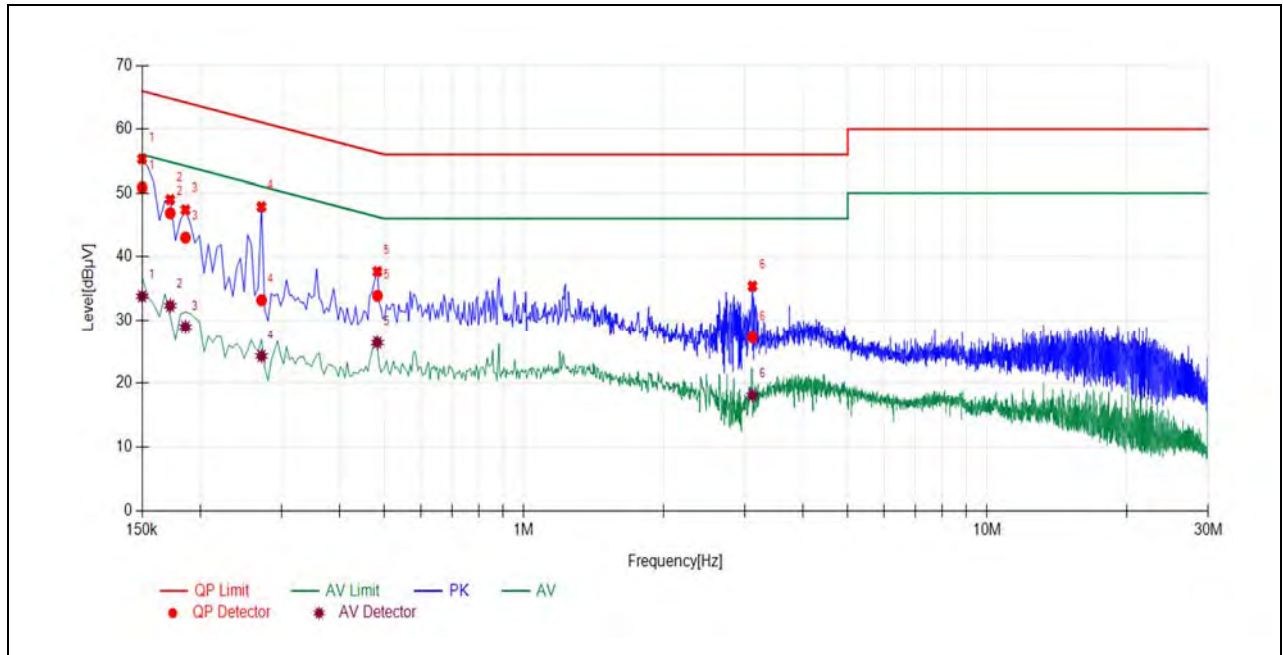
The measurement results are obtained as below:

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

U_R : Receiver Reading

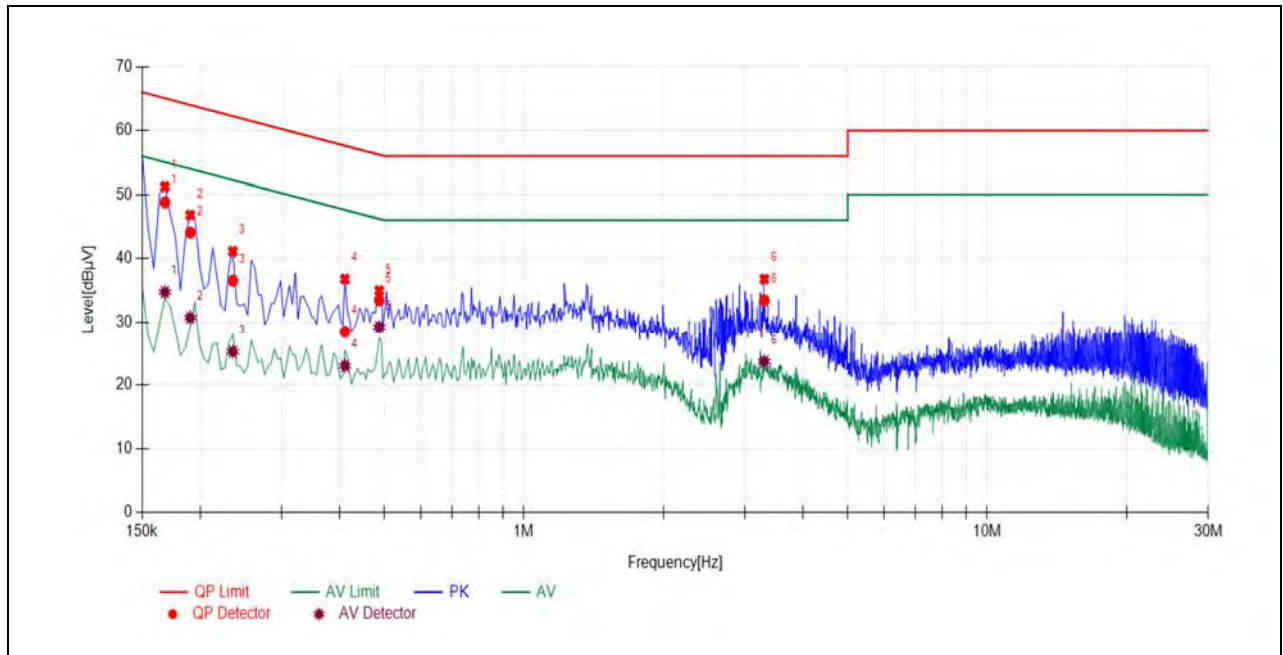
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1500	50.86	33.78	66.00	56.00	Line	PASS
2	0.1725	46.86	32.29	64.84	54.84		PASS
3	0.1860	43.01	28.90	64.21	54.21		PASS
4	0.2715	33.15	24.24	61.07	51.07		PASS
5	0.4830	33.86	26.35	56.29	46.29		PASS
6	3.1153	27.19	18.06	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1680	48.82	34.73	65.06	55.06	Neutral	PASS
2	0.1905	44.06	30.72	64.02	54.02		PASS
3	0.2355	36.52	25.23	62.25	52.25		PASS
4	0.4110	28.45	22.99	57.63	47.63		PASS
5	0.4875	33.45	29.22	56.21	46.21		PASS
6	3.3047	33.44	23.70	56.00	46.00		PASS

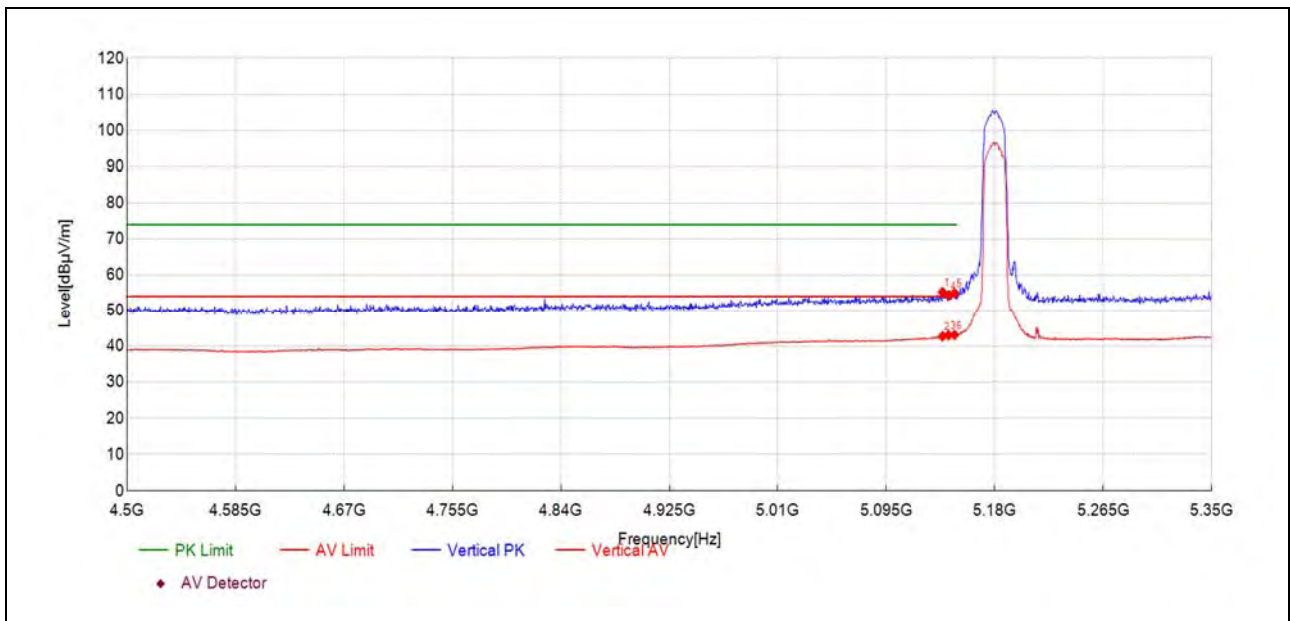
A.8. Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition 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

Plot for Channel 36



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
5139.09	40.9	55.25	14.390	74.00	18.75	231	PK	Vertical	PASS
5139.09	28.4	42.74	14.390	54.00	11.26	208	AV	Vertical	PASS
5143.77	28.6	43.06	14.480	54.00	10.94	222	AV	Vertical	PASS
5144.20	39.9	54.37	14.490	74.00	19.63	226	PK	Vertical	PASS
5148.45	40.4	55.00	14.560	74.00	19.00	113	PK	Vertical	PASS
5148.45	28.6	43.13	14.560	54.00	10.87	165	AV	Vertical	PASS