-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.333	0.5	Pass
		5785		16.353	0.5	Pass
		5825		16.318	0.5	Pass
	n20	5745		17.587	0.5	Pass
		5785		17.59	0.5	Pass
		5825		17.584	0.5	Pass
	n40	5755		36.339	0.5	Pass
		5795		36.328	0.5	Pass
	ac20	5745		17.579	0.5	Pass
		5785		17.569	0.5	Pass
		5825		17.567	0.5	Pass
	ac40	5755		36.342	0.5	Pass
		5795		36.328	0.5	Pass
	ax20	5745		19.105	0.5	Pass
		5785		18.894	0.5	Pass
		5825		18.997	0.5	Pass
	ax40	5755		37.773	0.5	Pass
		5795		37.959	0.5	Pass

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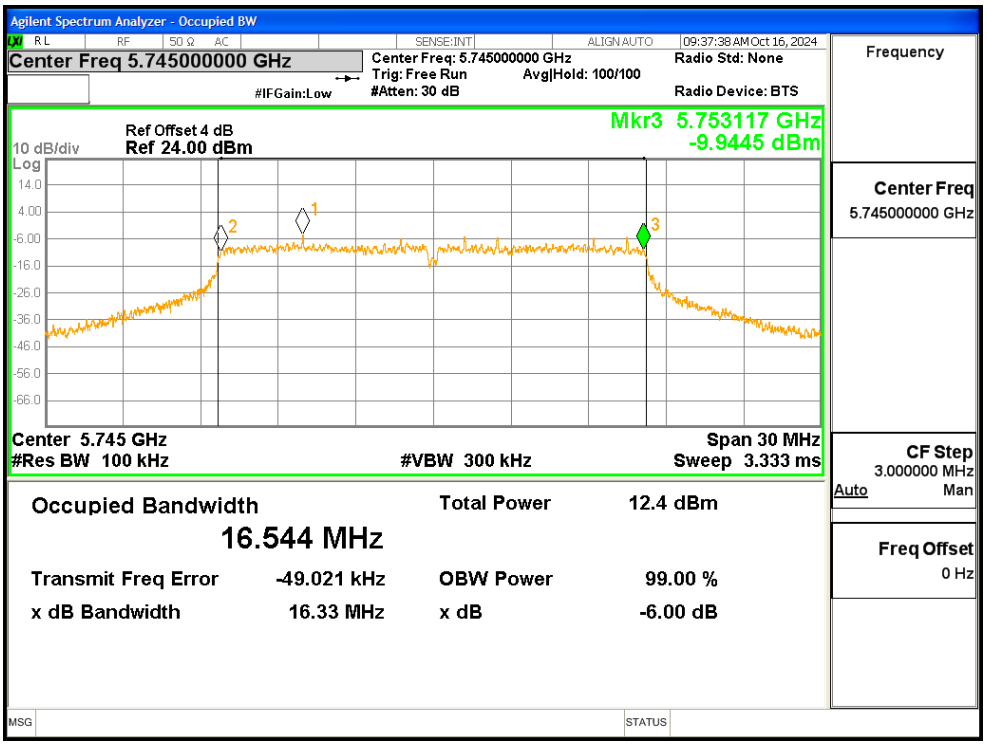
Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1

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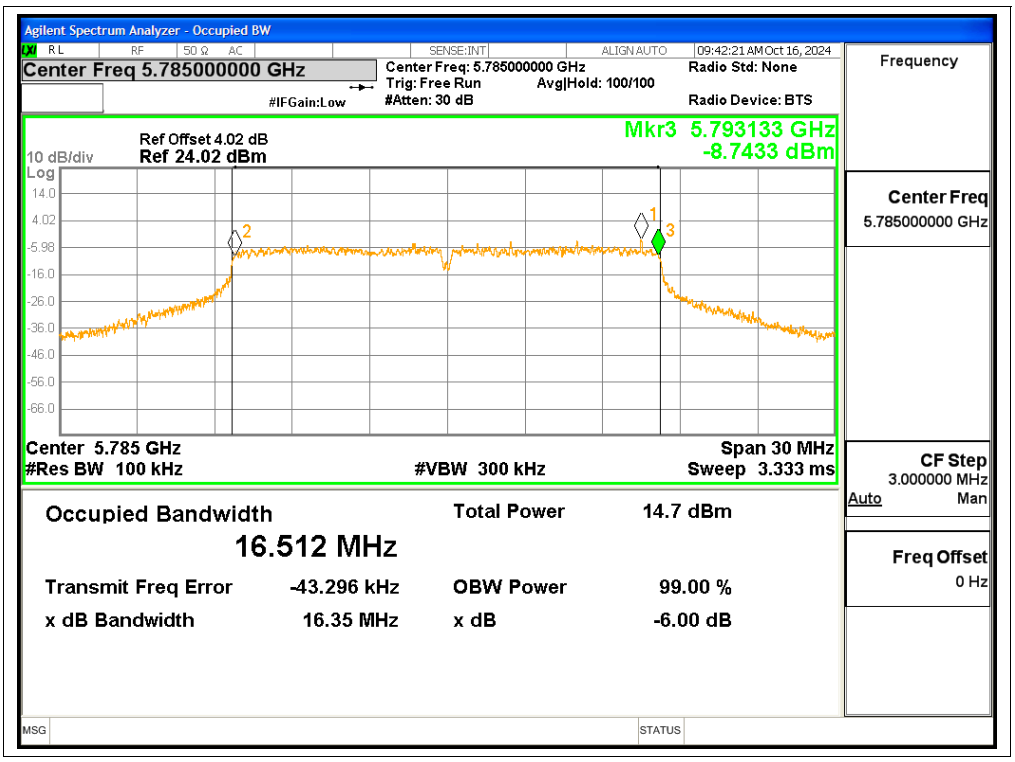

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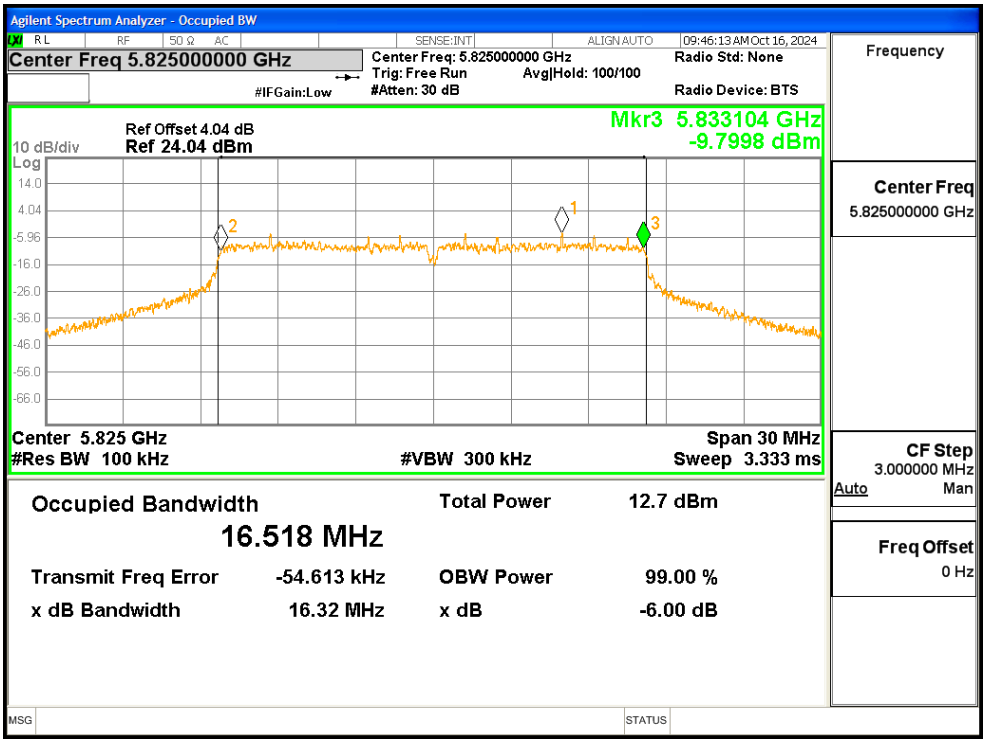
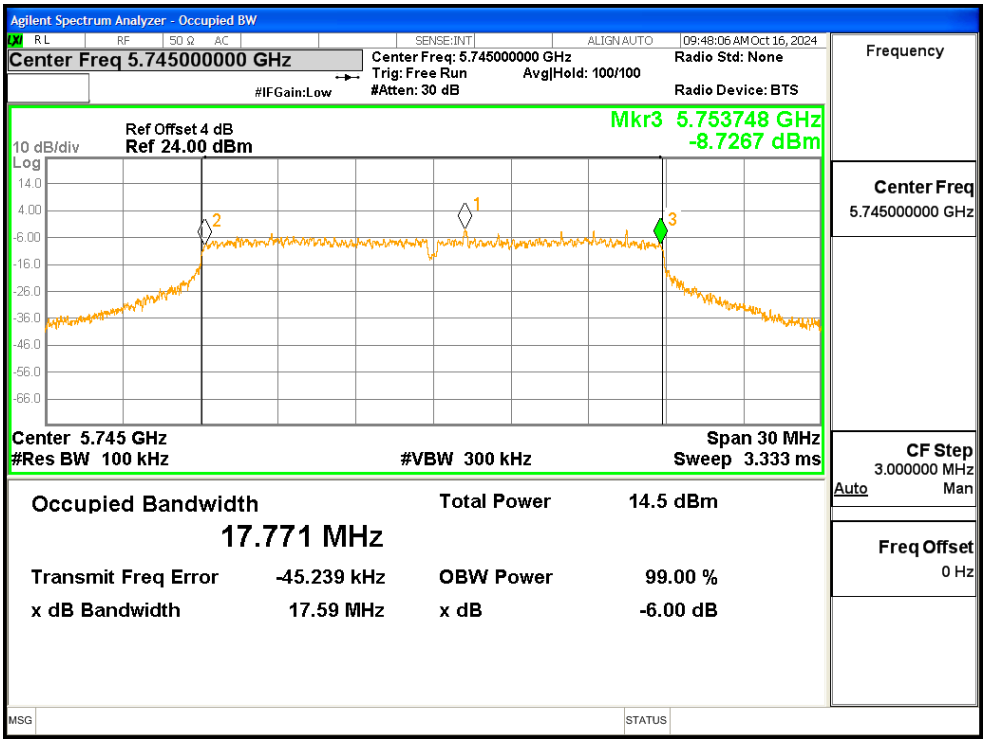
-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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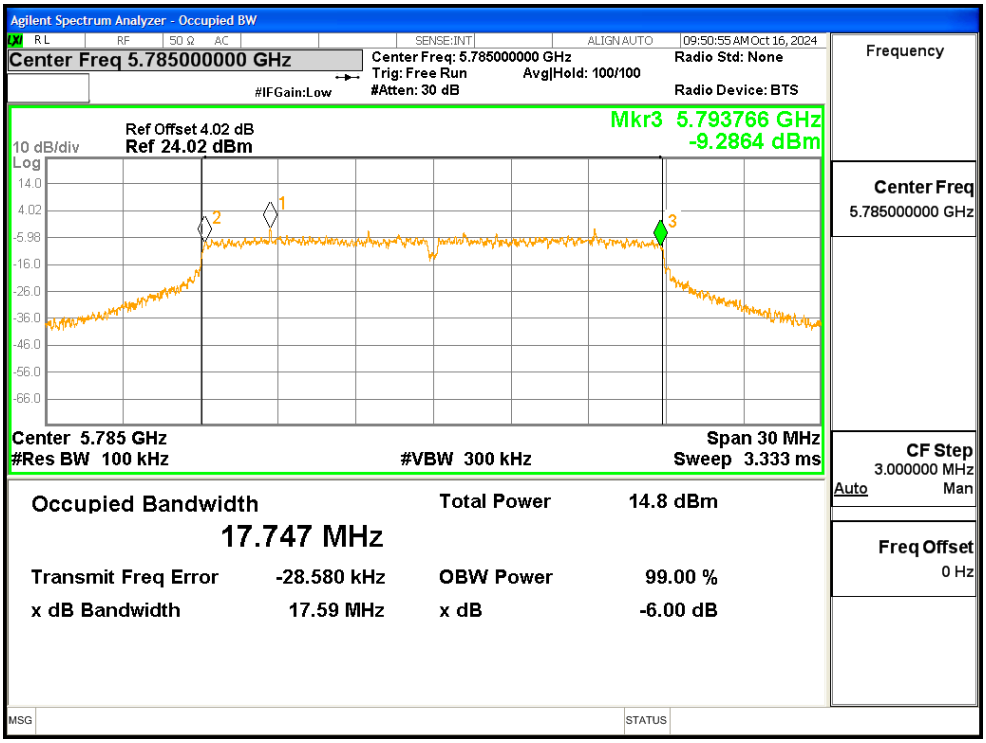
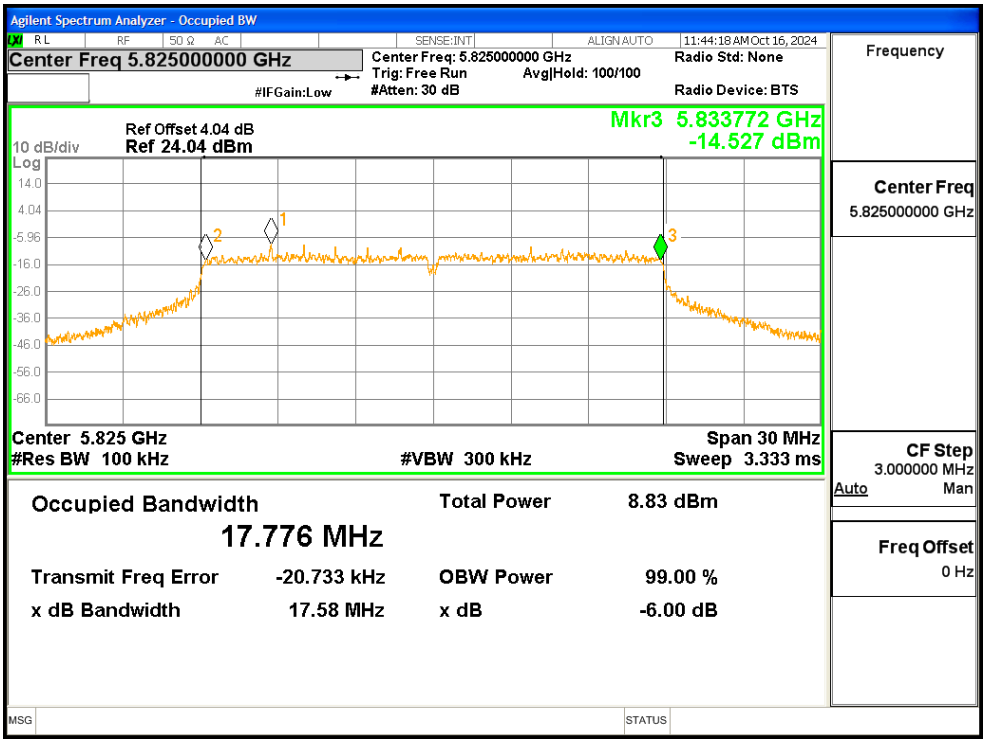
-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



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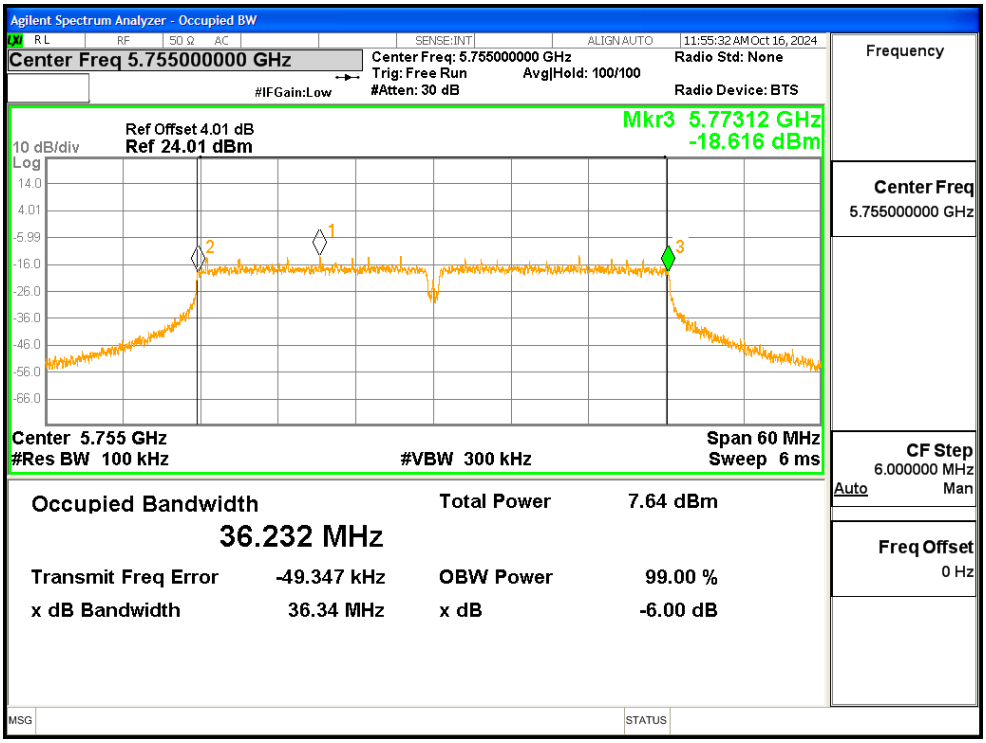
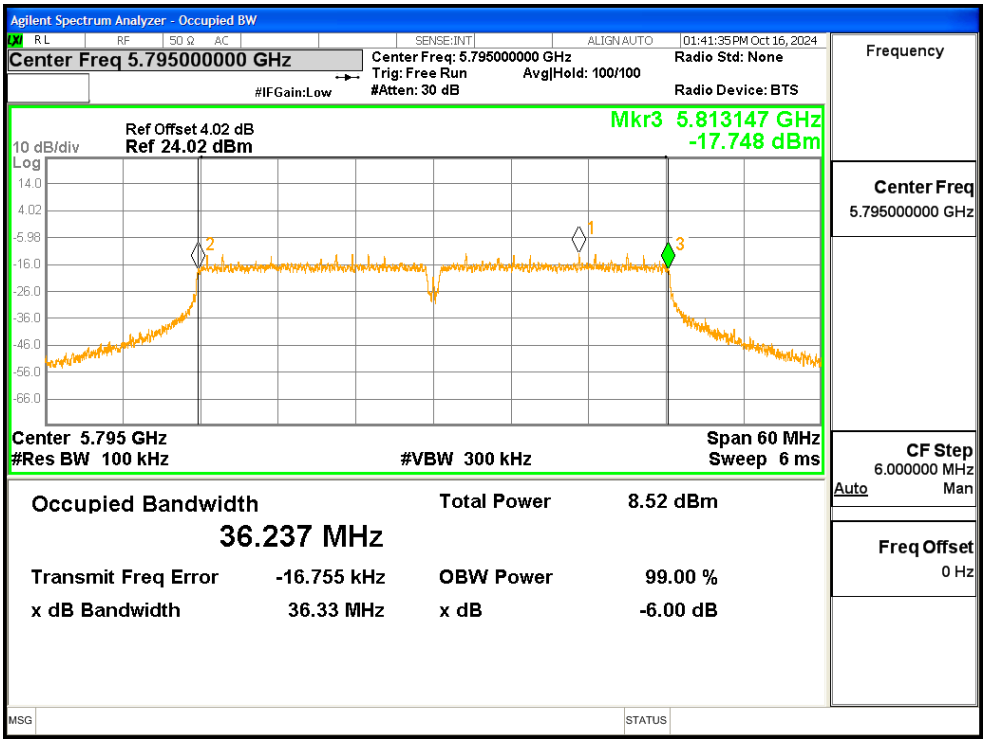
-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



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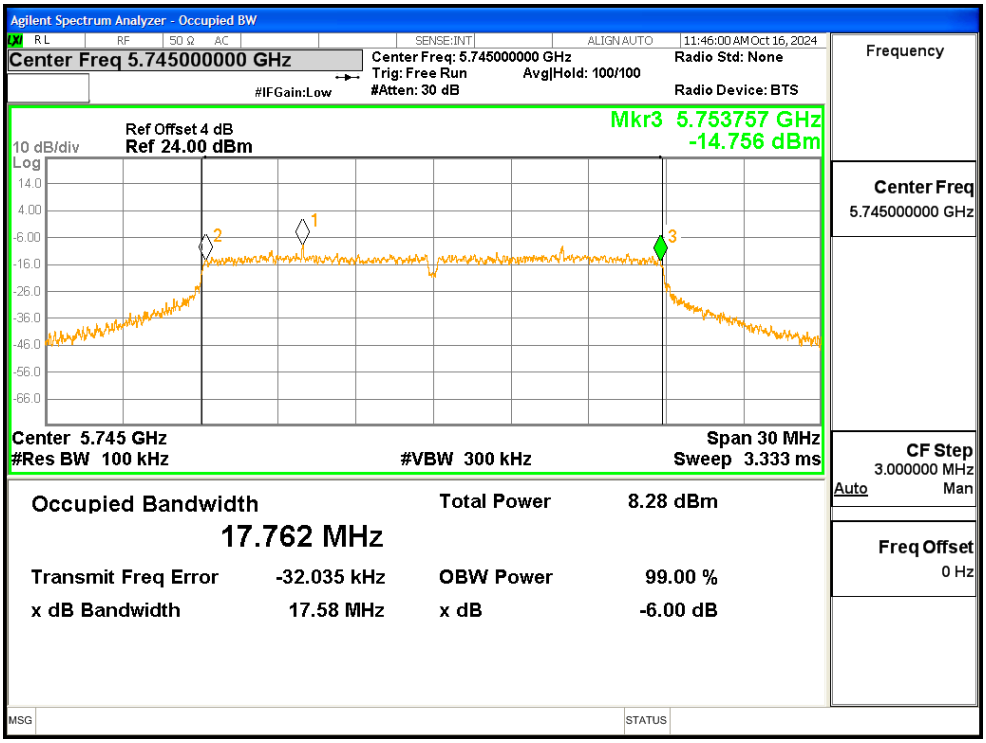
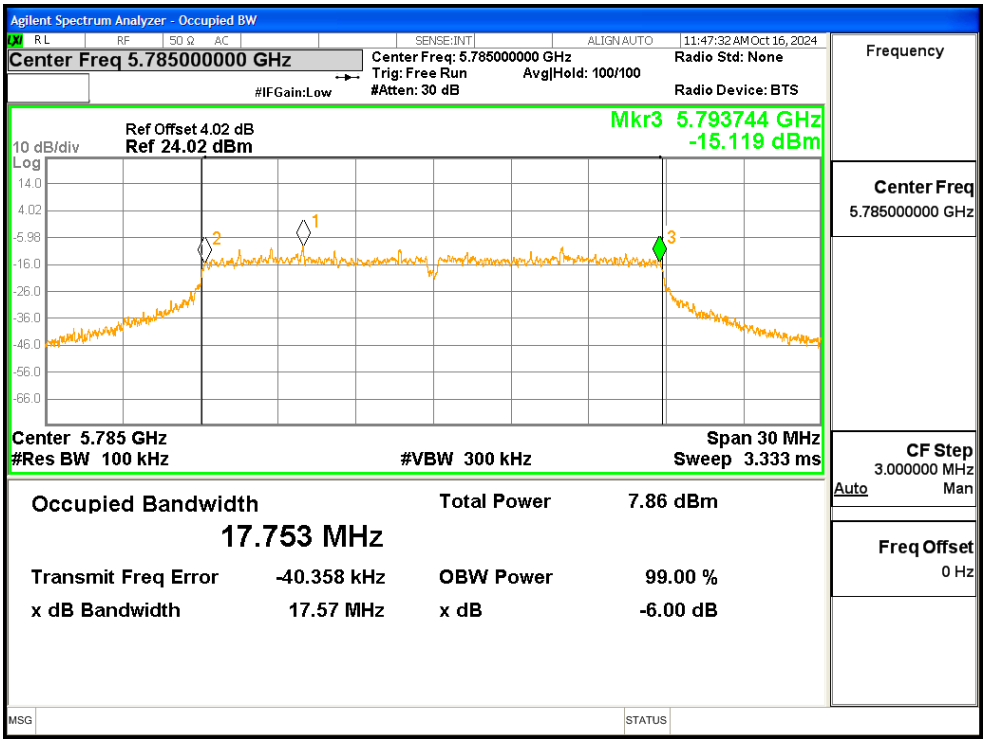
-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



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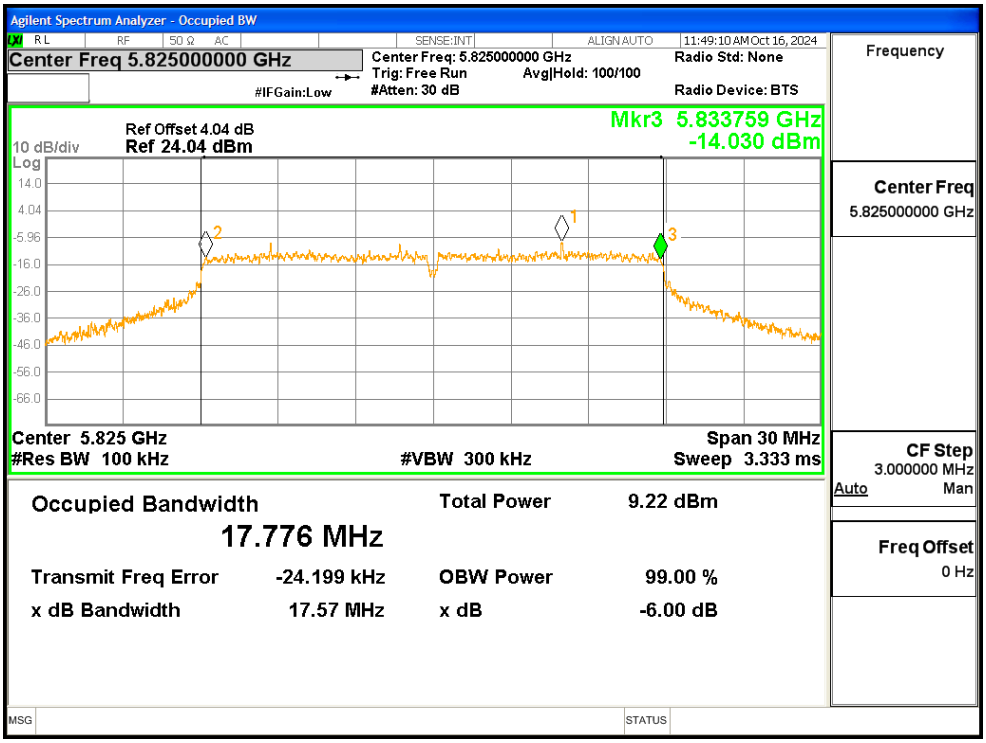
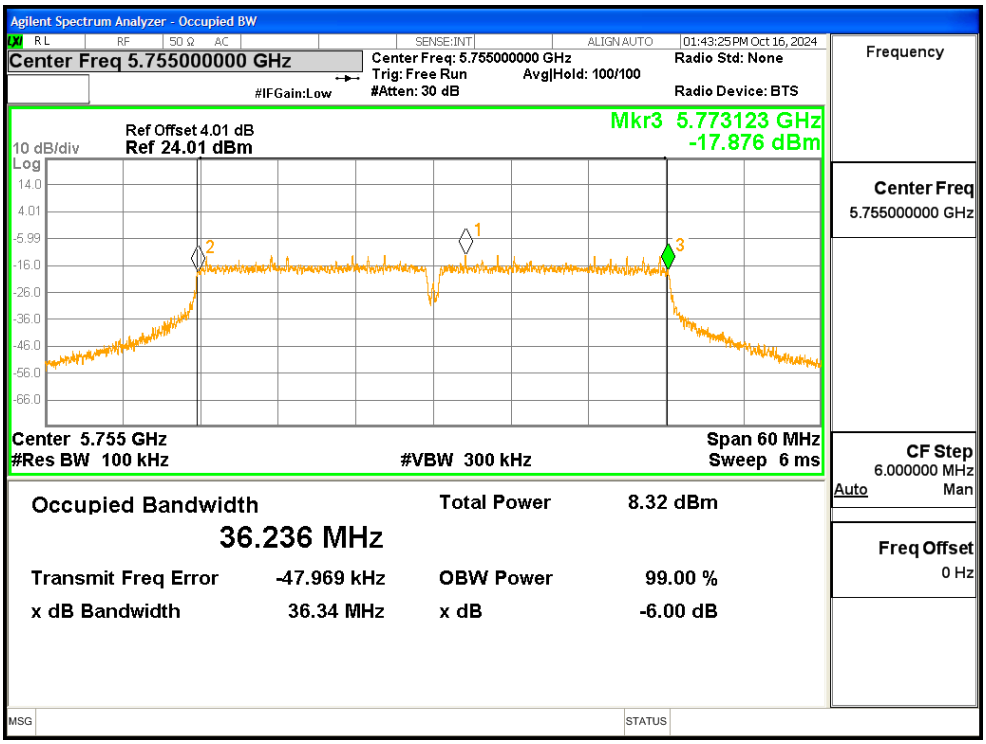
-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



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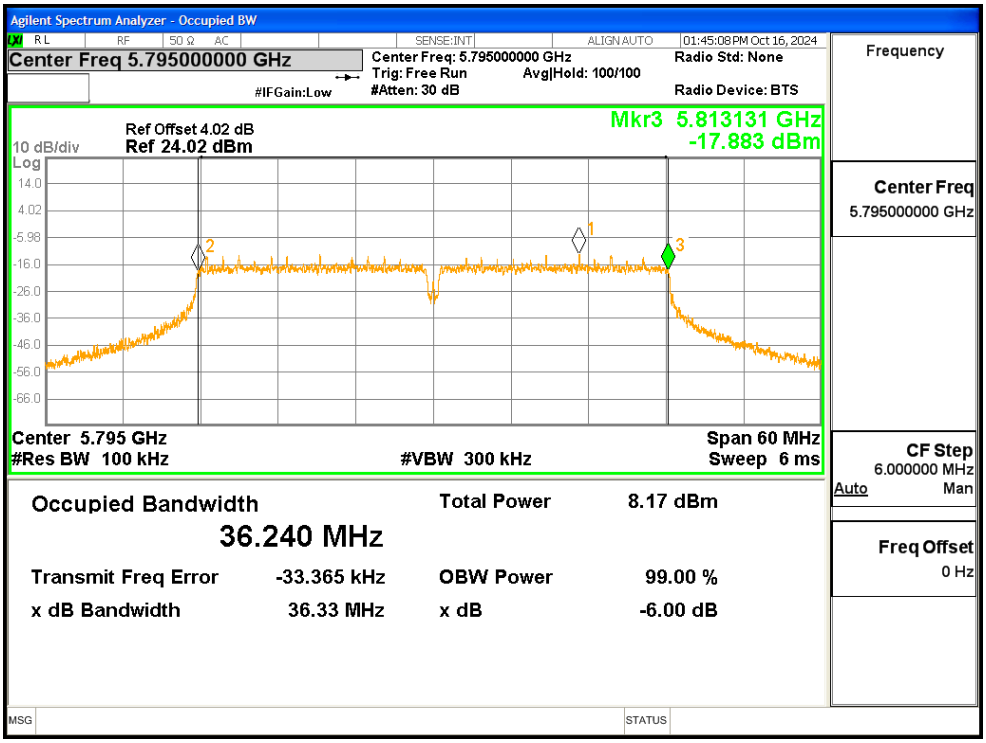
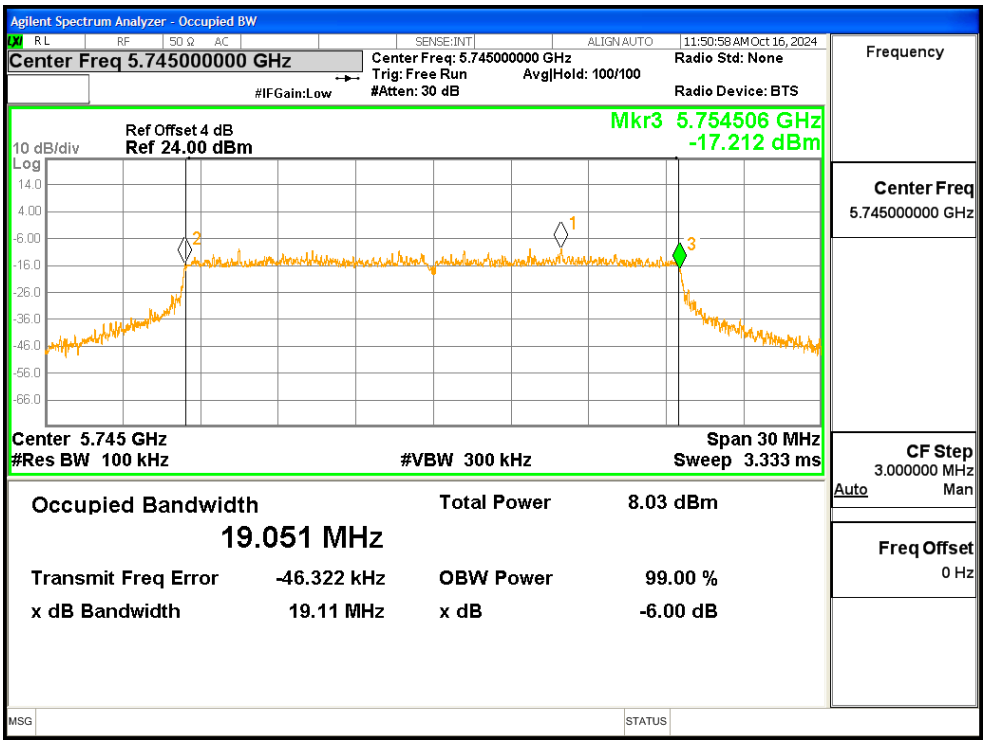
-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ax20 5745MHz Ant1



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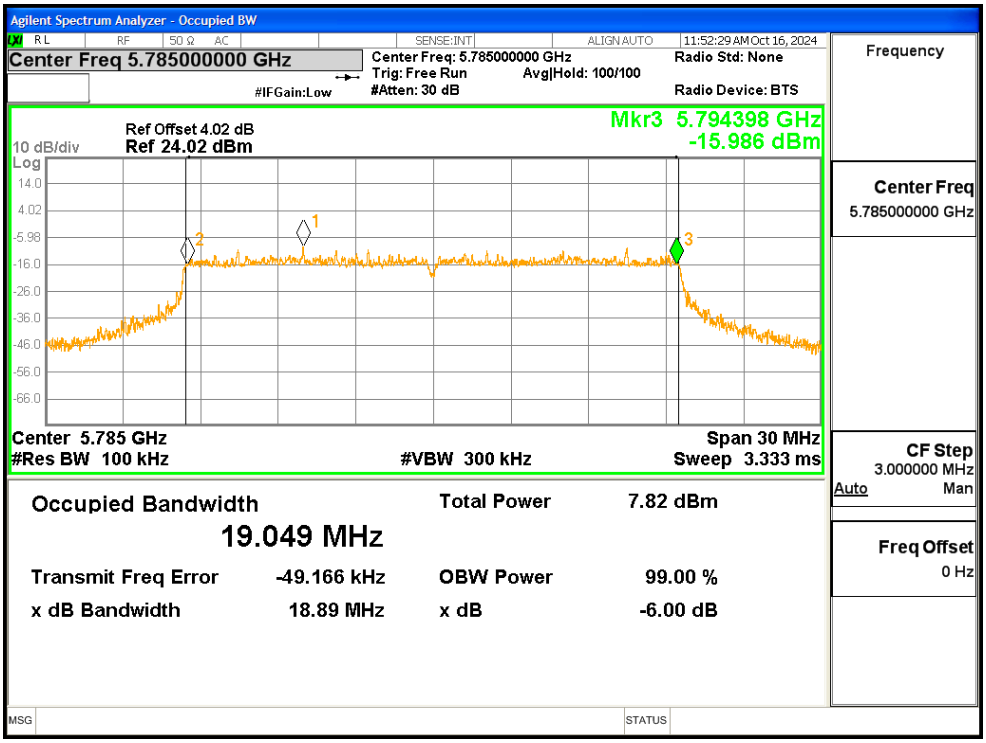
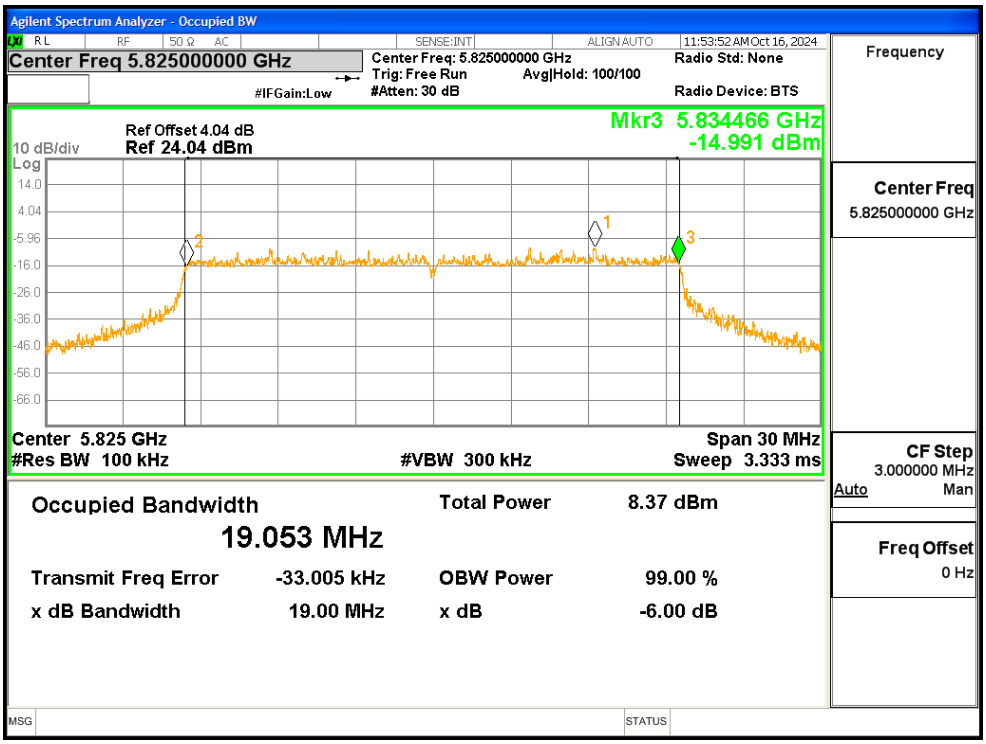
-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5825MHz Ant1



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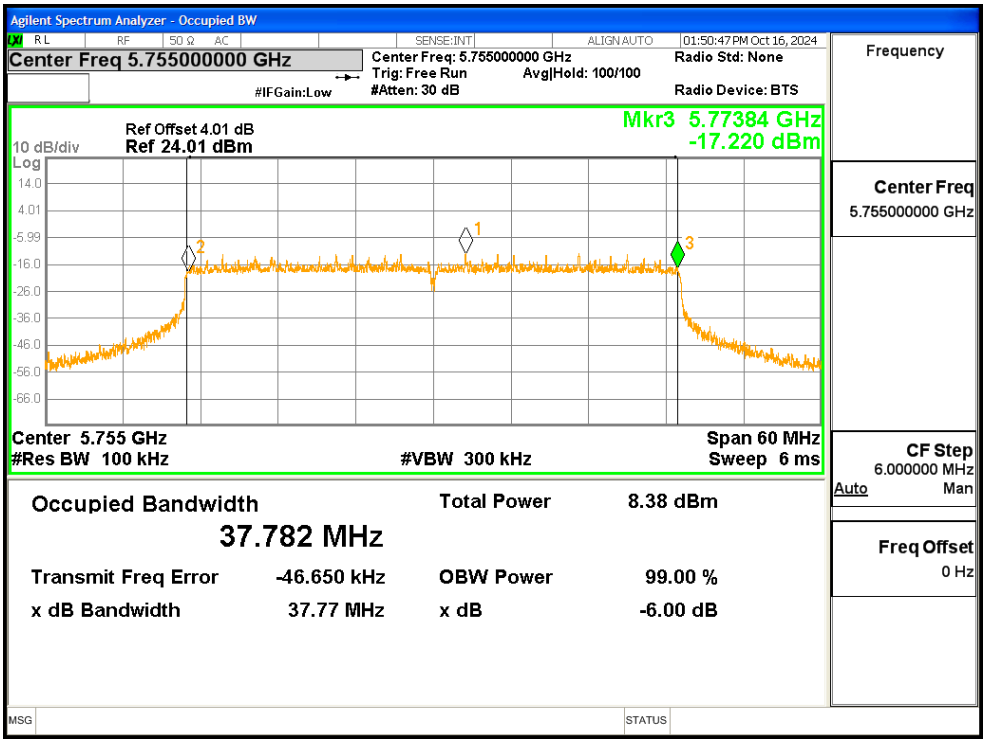
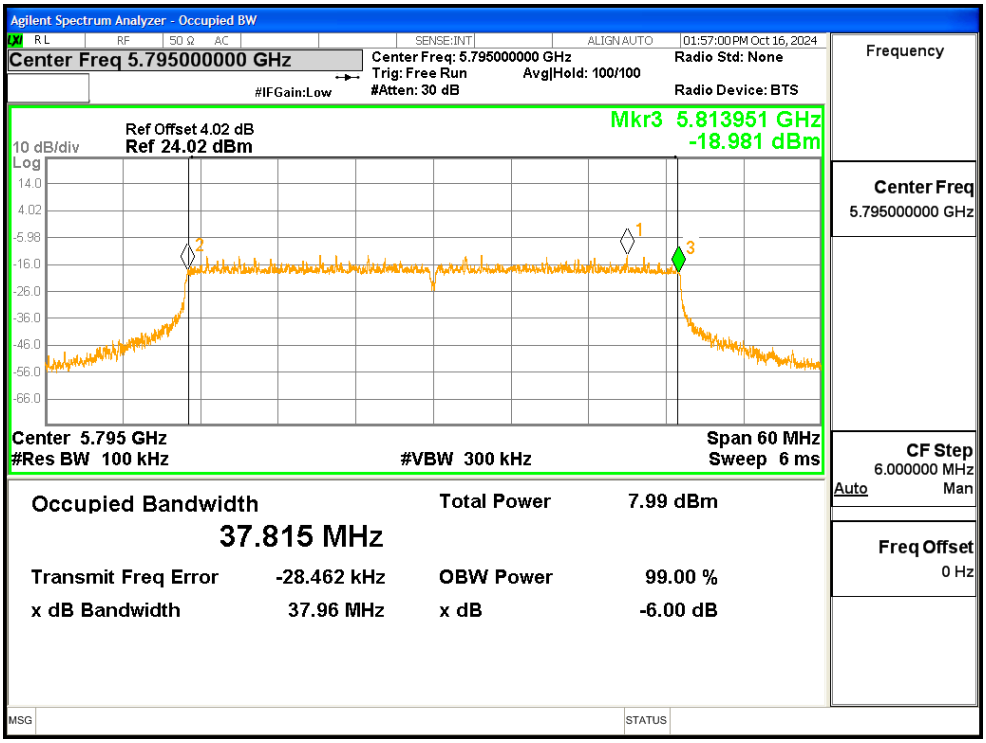
-6dB Bandwidth NVNT ax40 5755MHz Ant1



-6dB Bandwidth NVNT ax40 5795MHz Ant1



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Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.751
		5785		16.72
		5825		16.704
	n20	5745		17.95
		5785		17.957
		5825		17.918
	n40	5755		36.5
		5795		36.533
	ac20	5745		17.994
		5785		17.995
		5825		17.967
	ac40	5755		36.526
		5795		36.568
	ax20	5745		19.097
		5785		19.129
		5825		19.16
	ax40	5755		37.937
		5795		37.954

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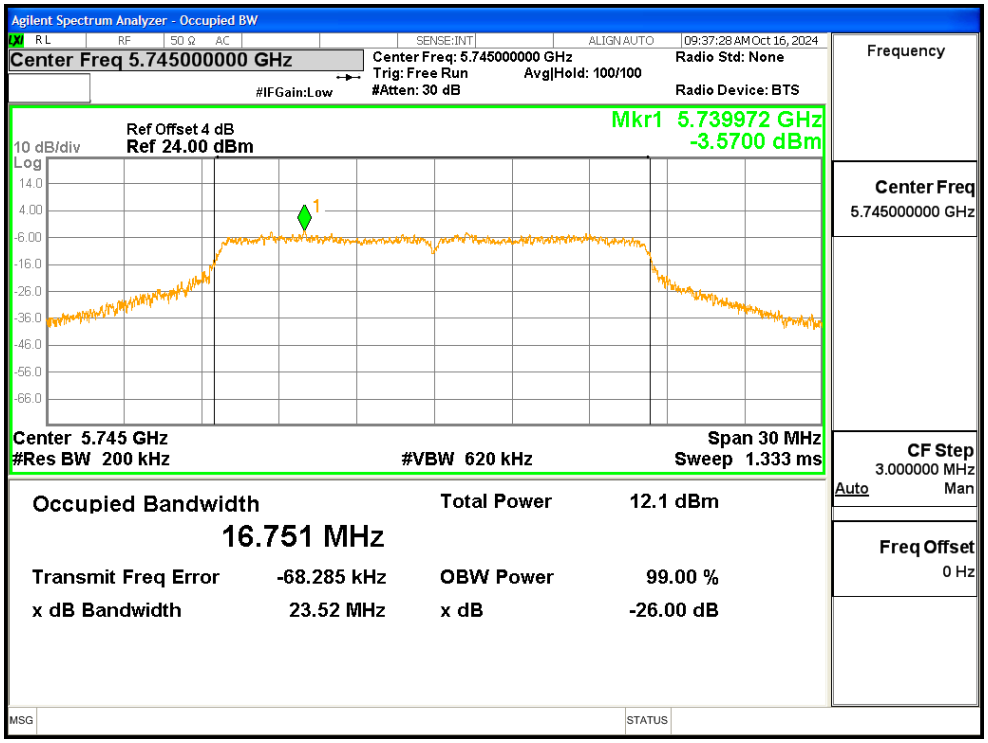
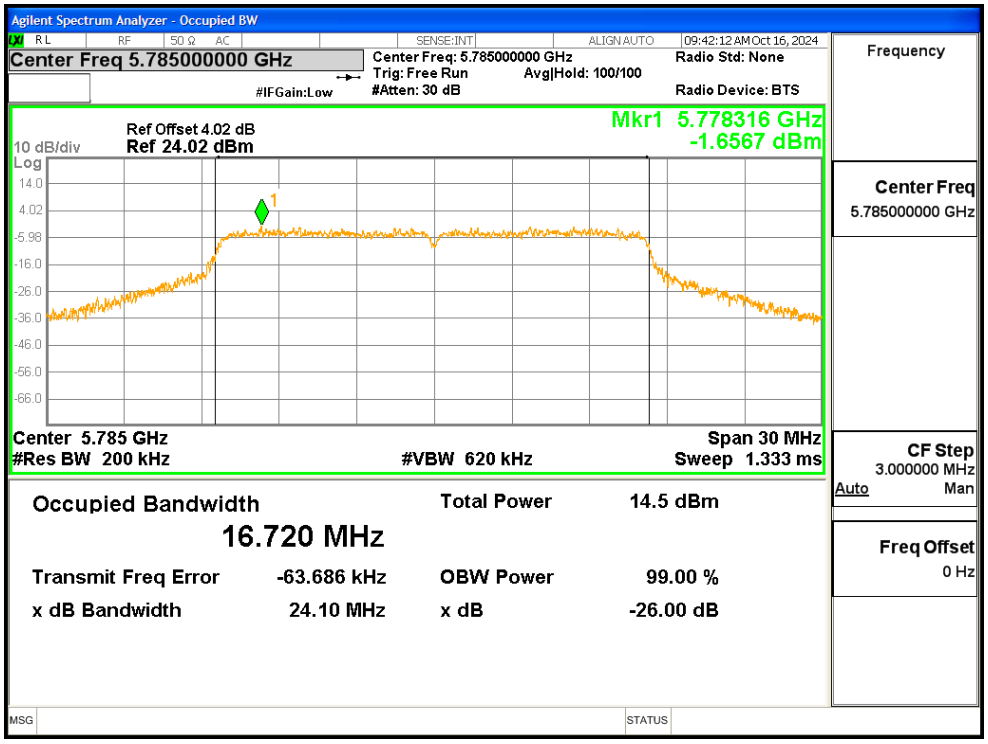
Test Graphs

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



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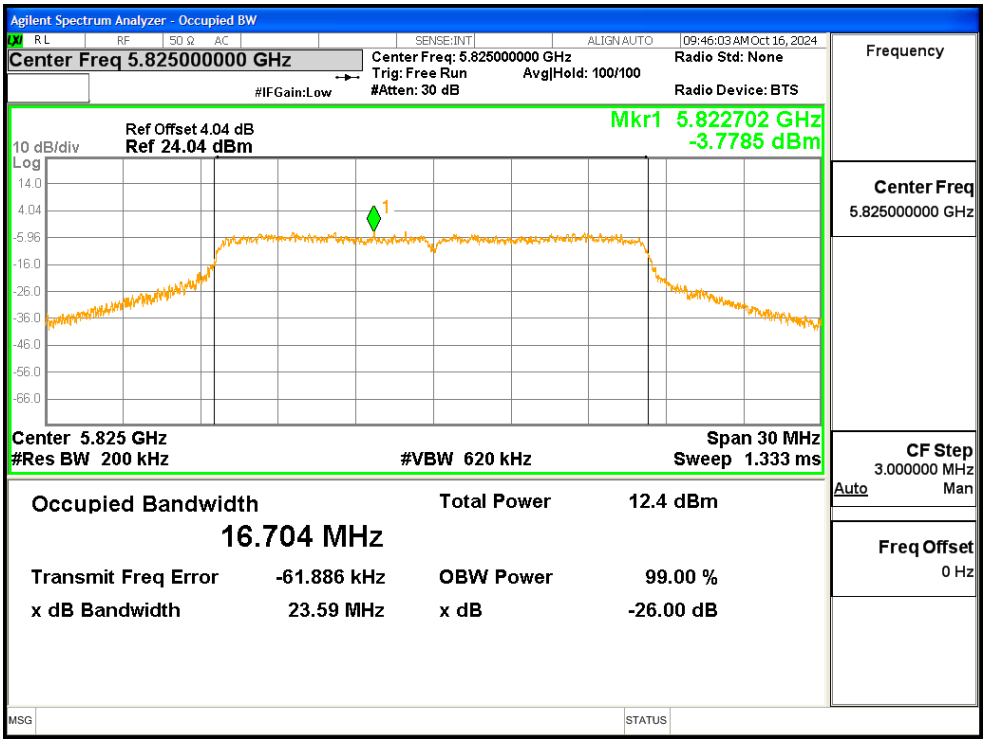
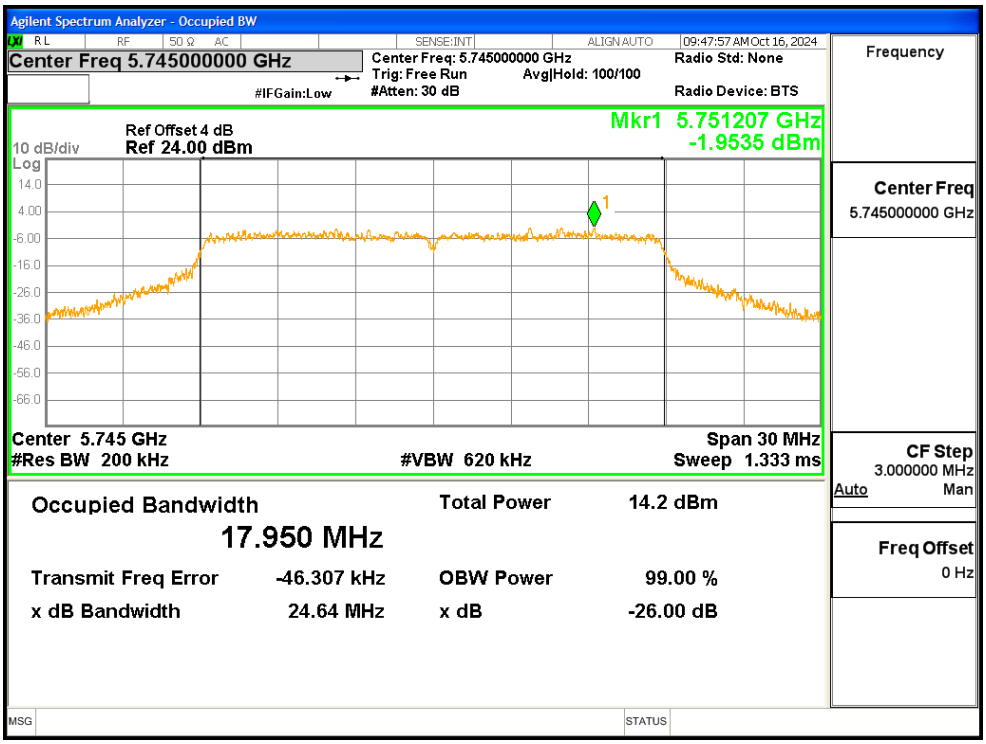
OBW NVNT a 5825MHz Ant1



OBW NVNT n20 5745MHz Ant1



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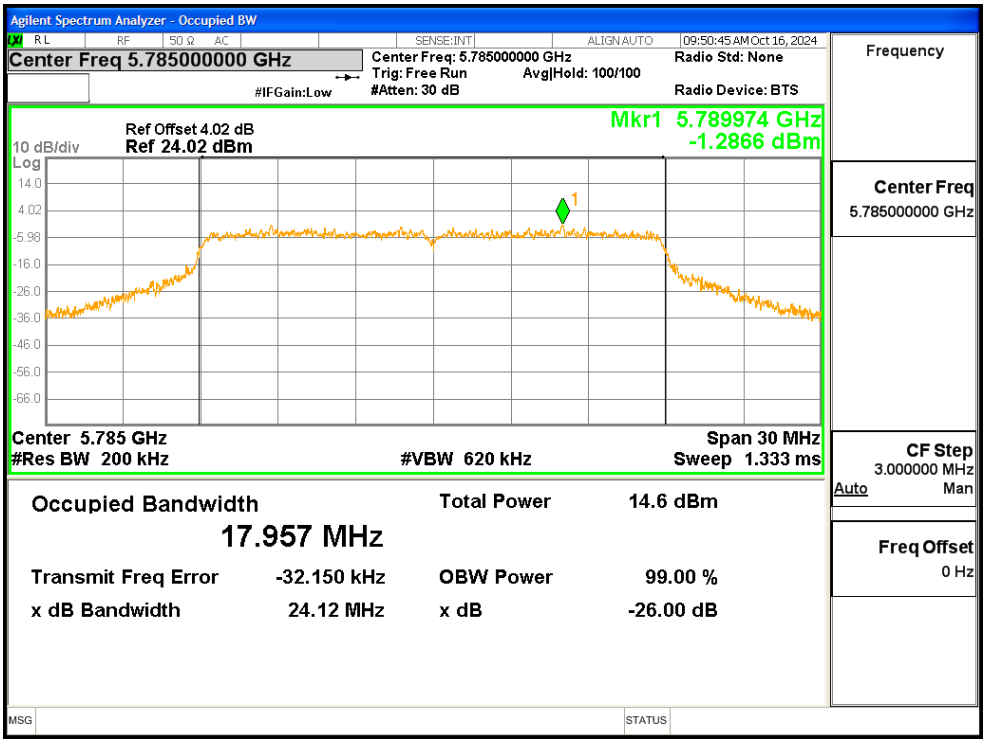
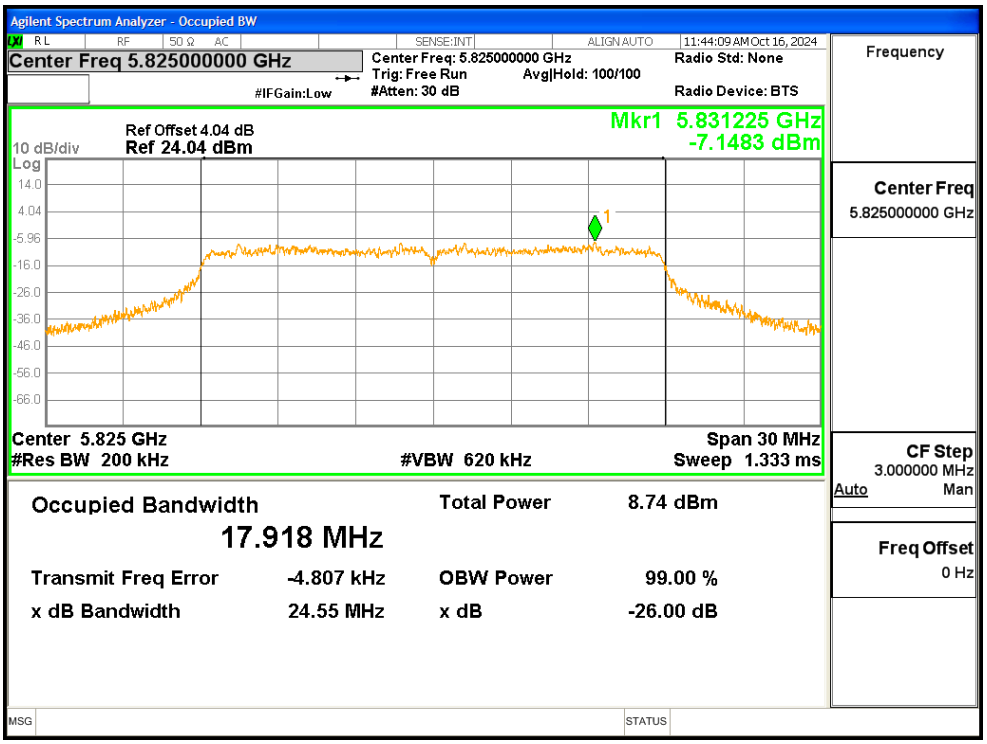
OBW NVNT n20 5785MHz Ant1



OBW NVNT n20 5825MHz Ant1



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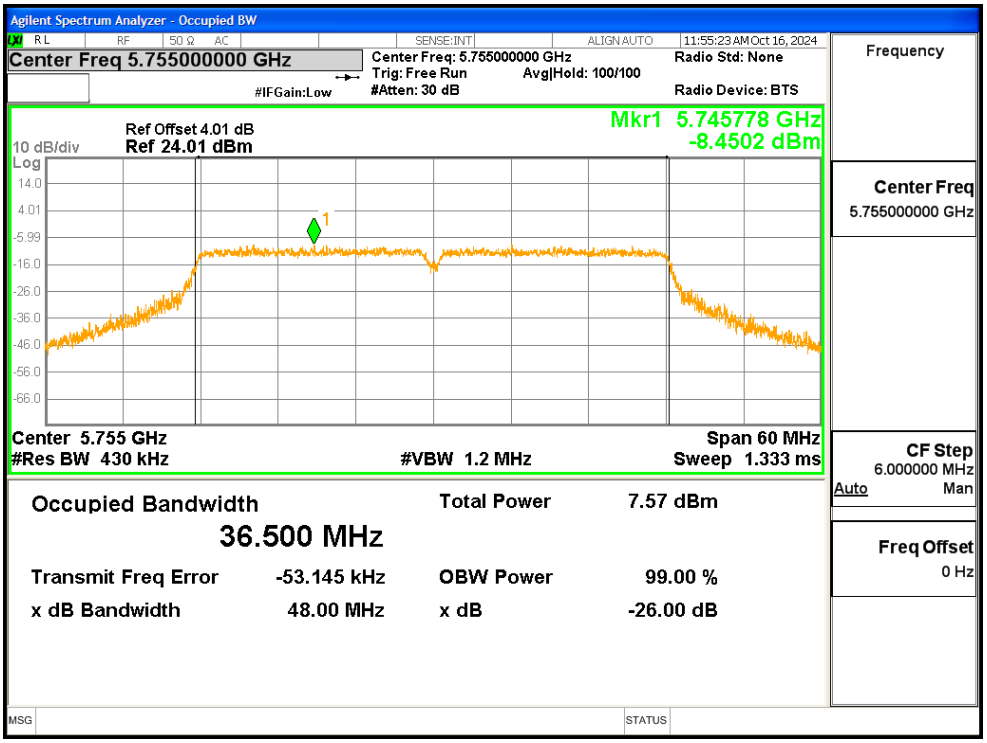
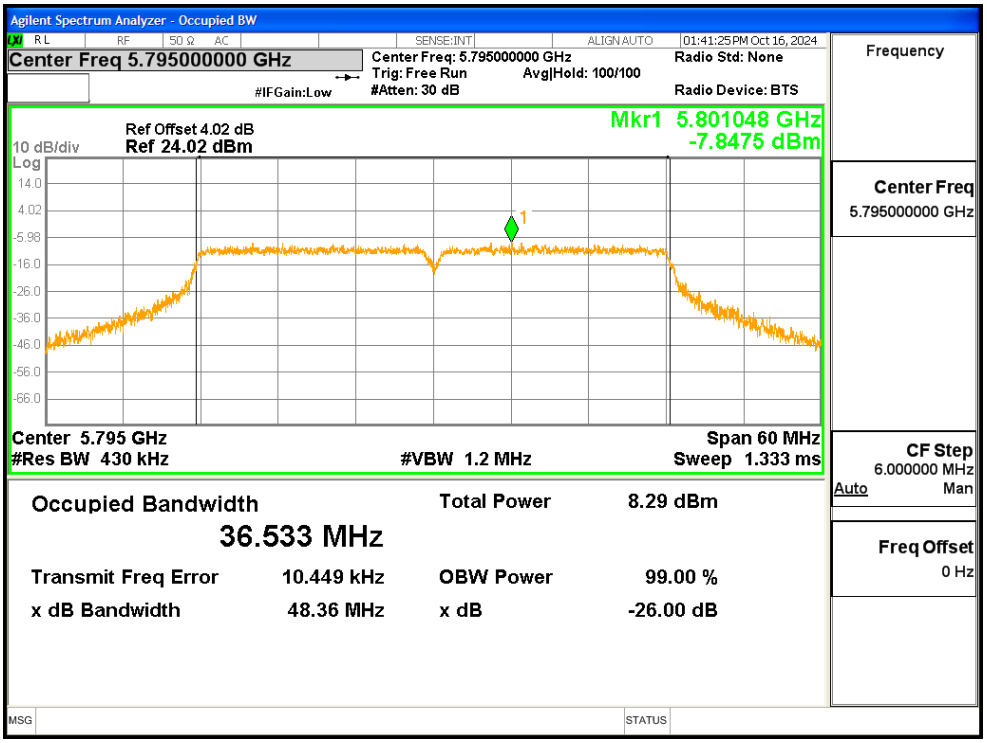
OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1



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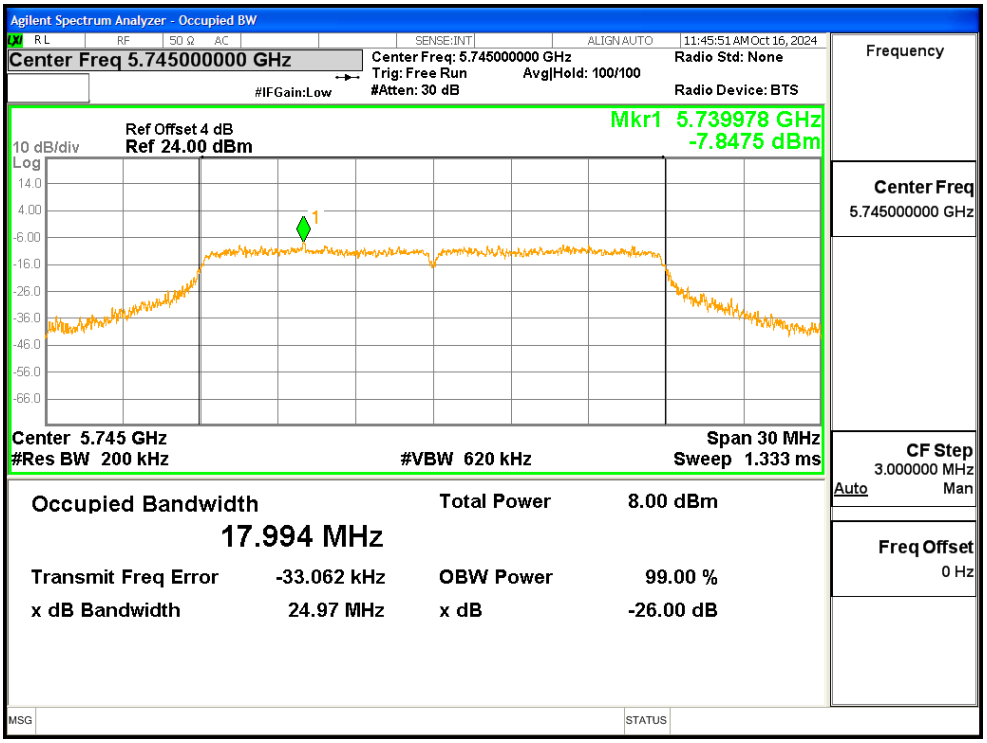
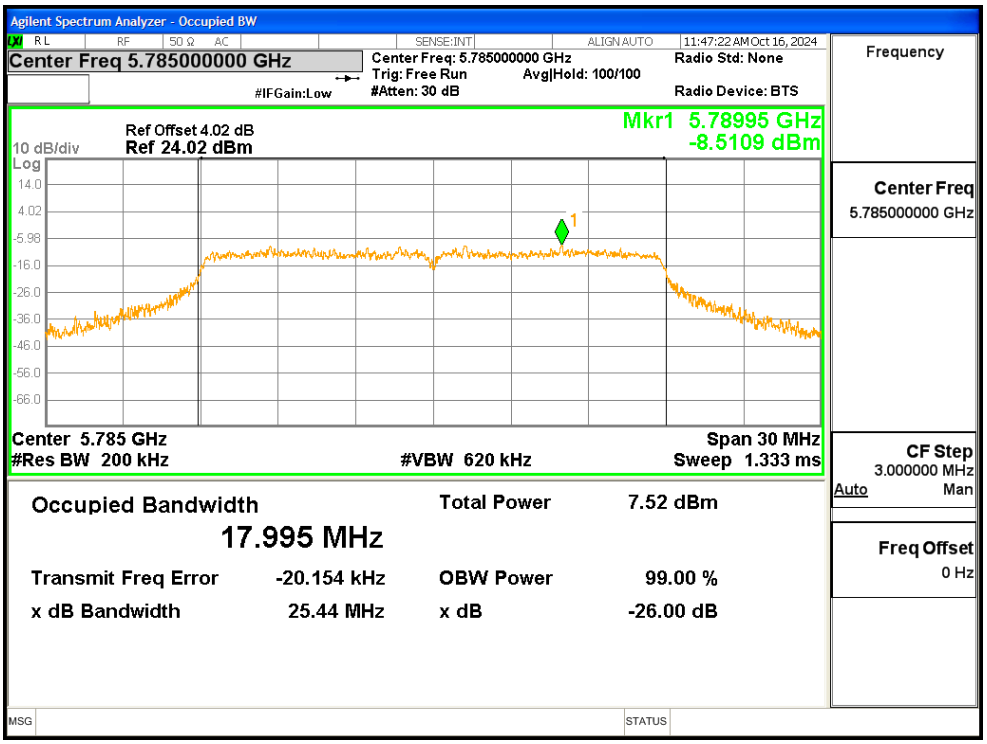
OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



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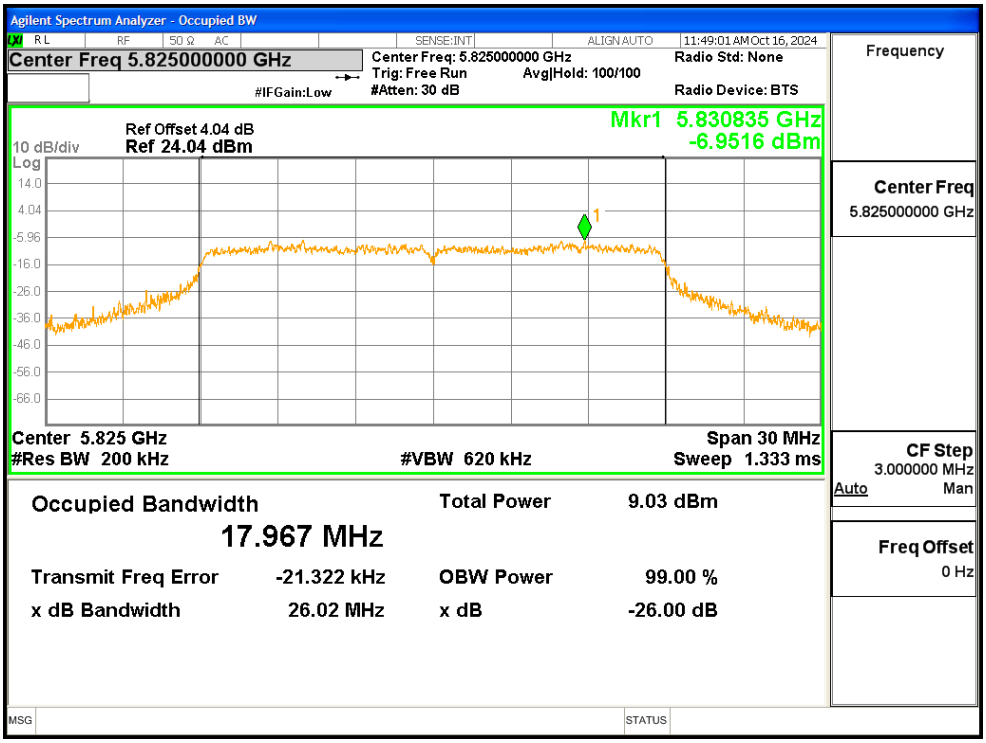
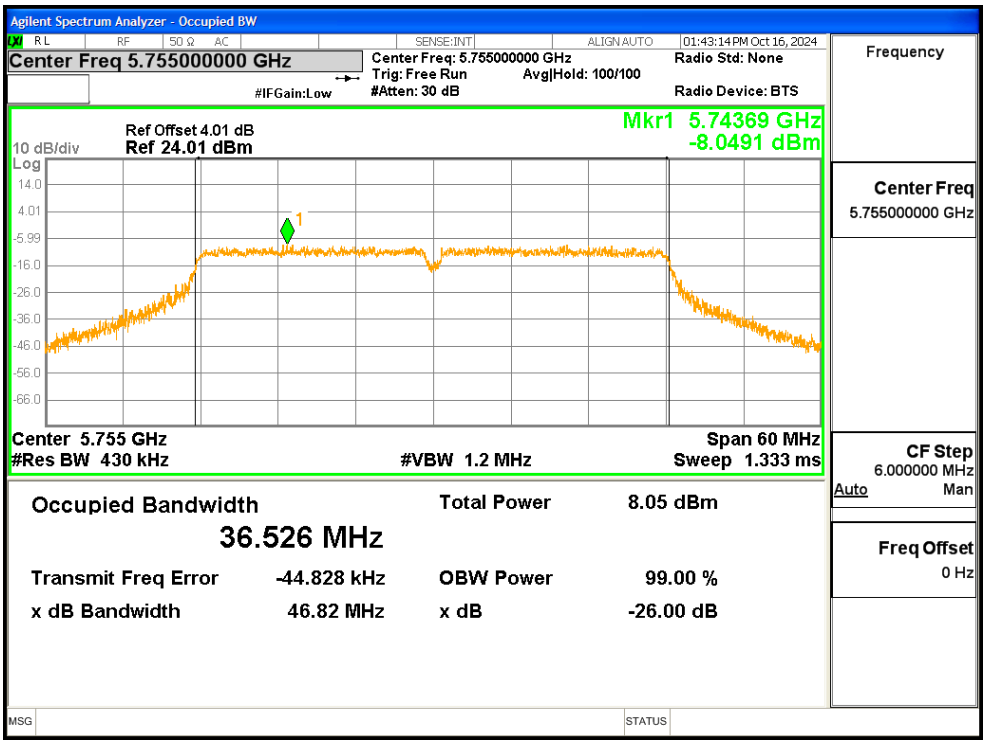
OBW NVNT ac20 5825MHz Ant1



OBW NVNT ac40 5755MHz Ant1



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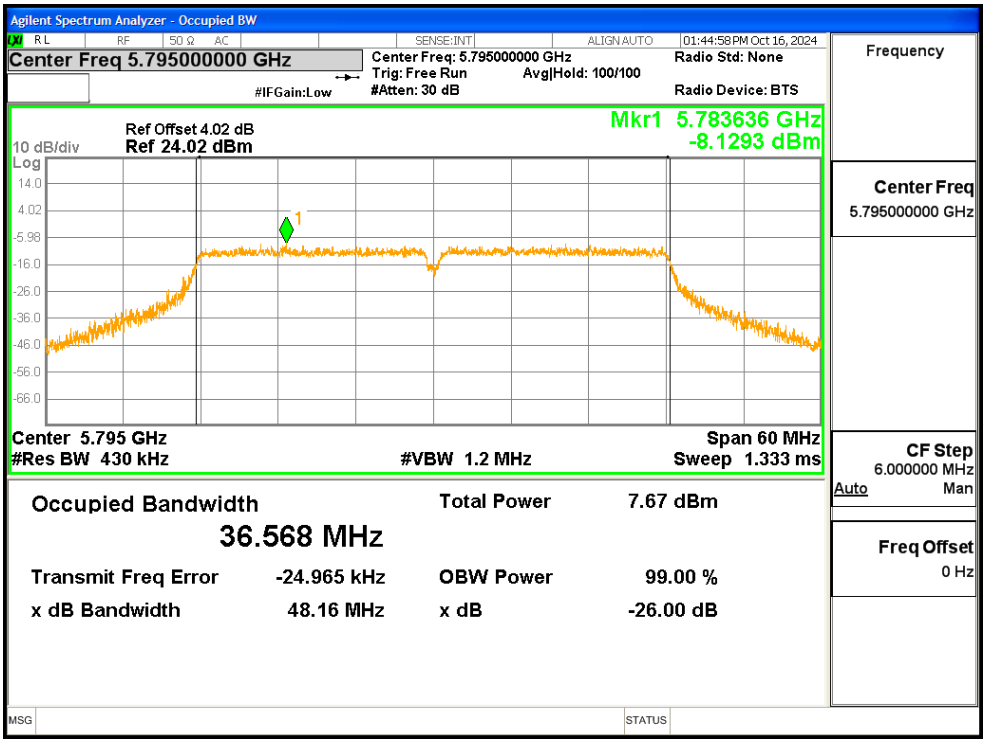
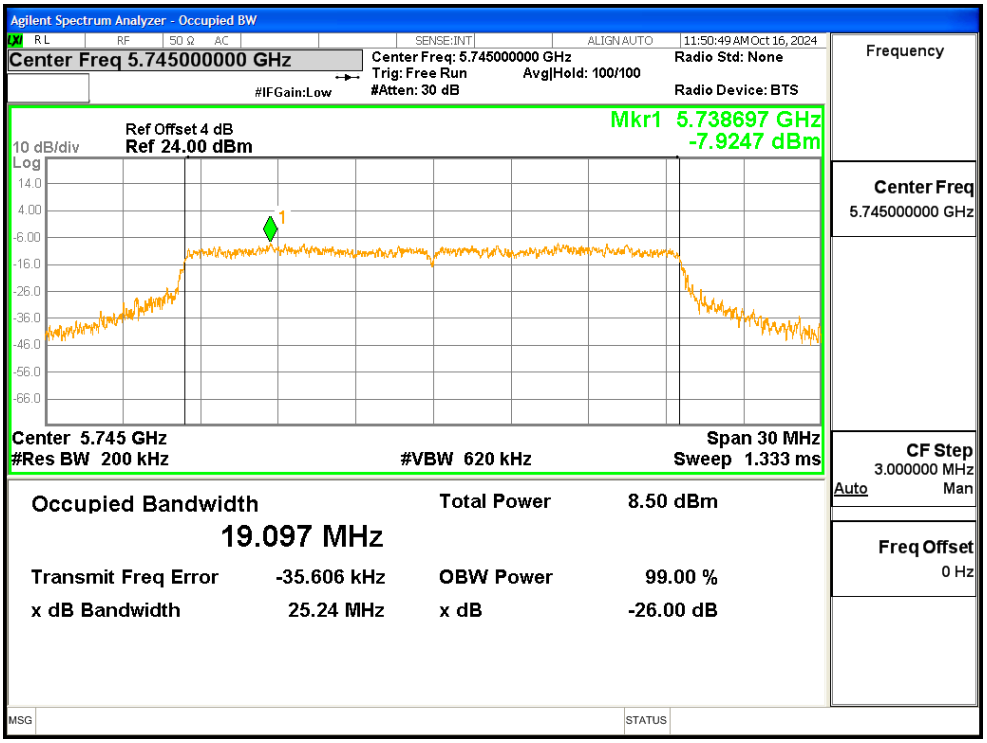
OBW NVNT ac40 5795MHz Ant1



OBW NVNT ax20 5745MHz Ant1



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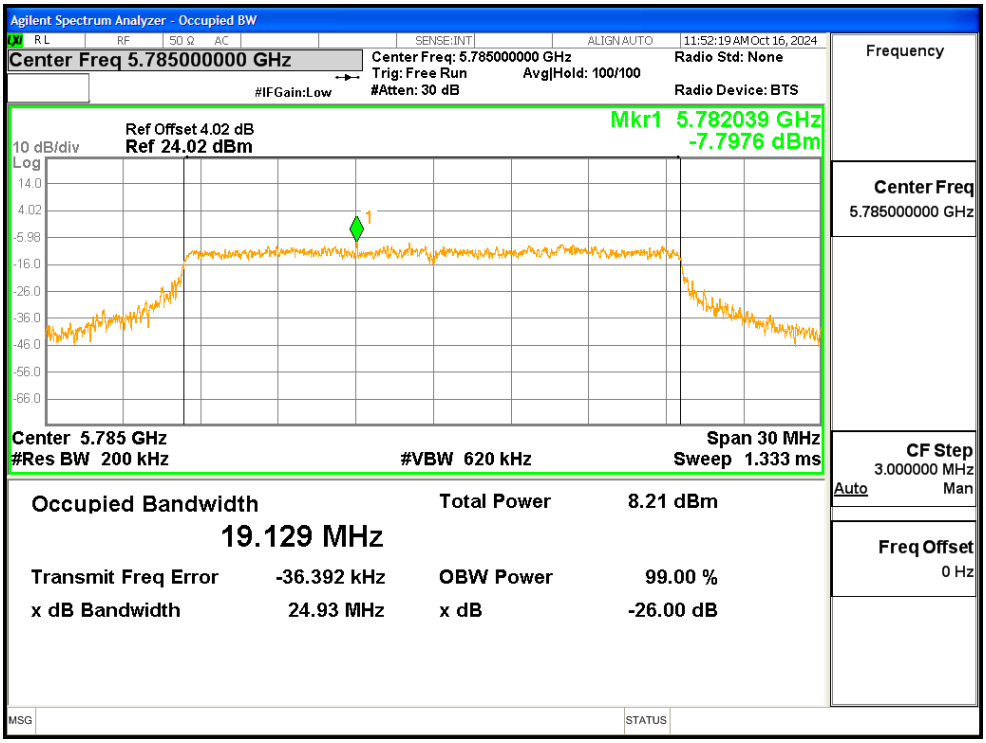
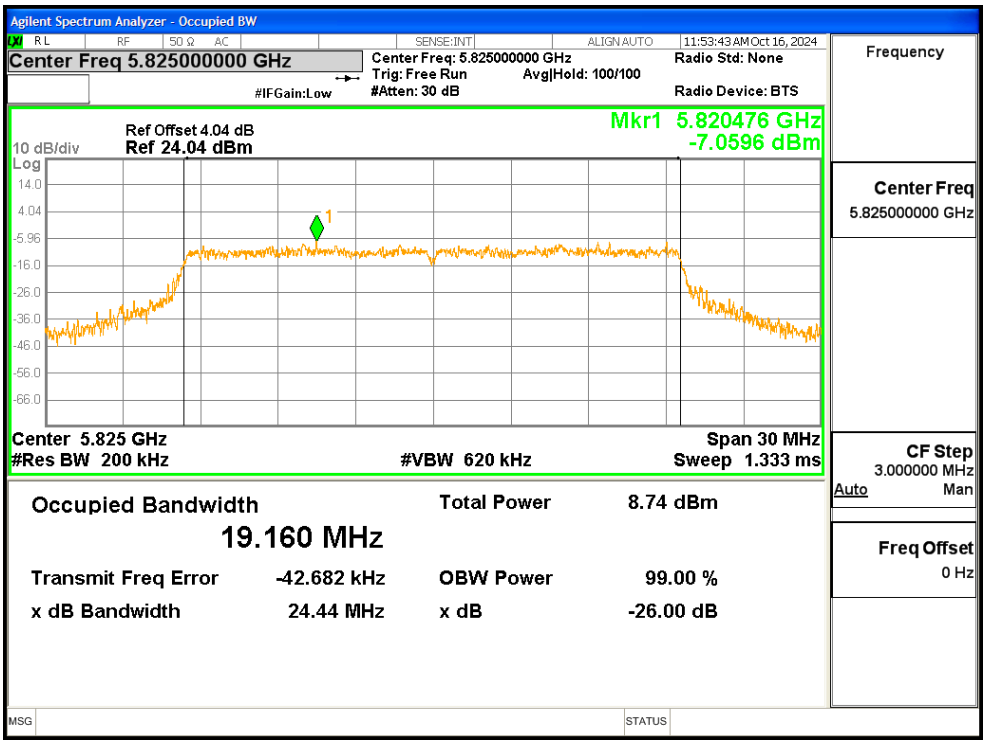
OBW NVNT ax20 5785MHz Ant1



OBW NVNT ax20 5825MHz Ant1



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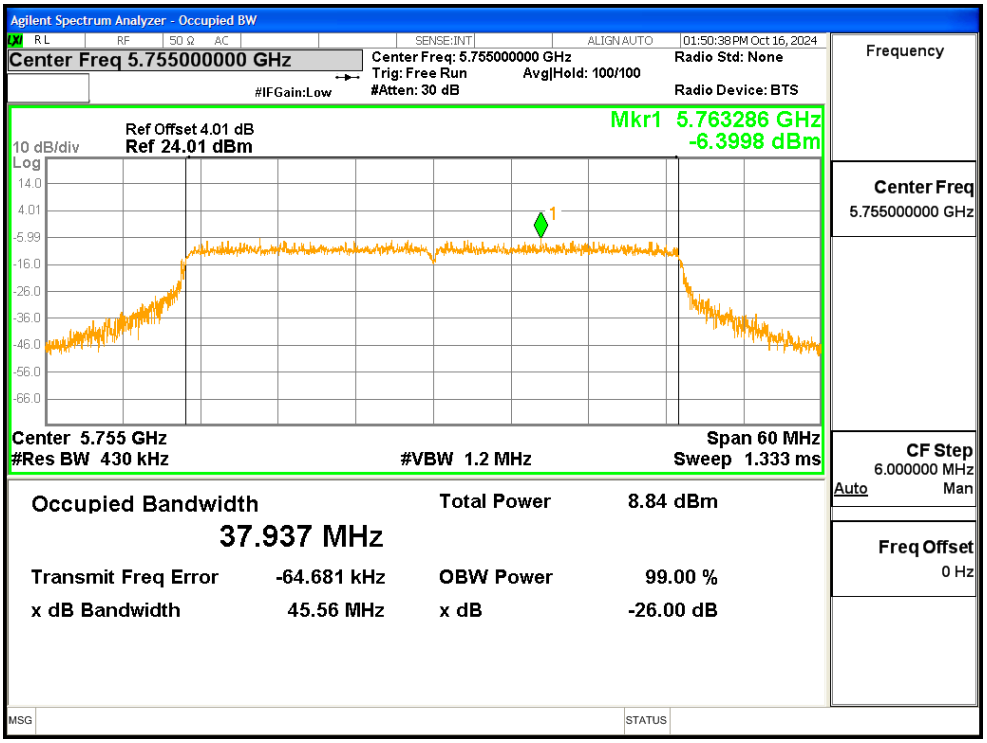
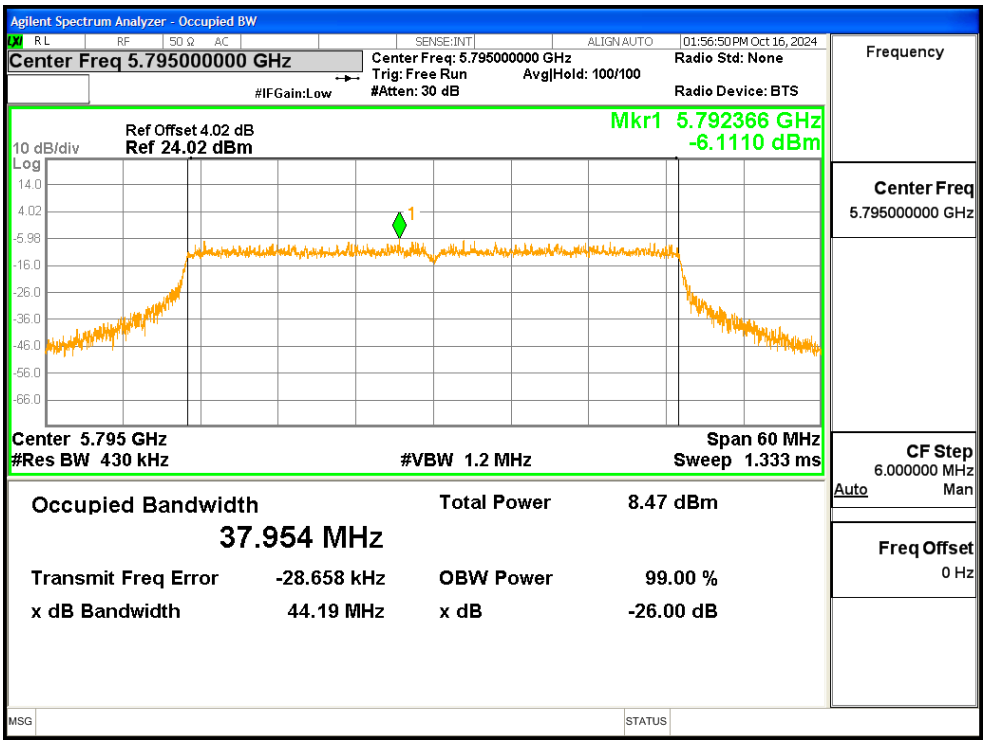
OBW NVNT ax40 5755MHz Ant1



OBW NVNT ax40 5795MHz Ant1



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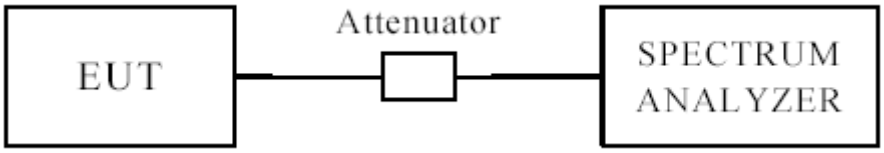
8.0 Peak Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) ≦(Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

8.3 Test Procedure

The RF power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the average power was measured

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8.4Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	7.71	0	7.71	24	Pass
		5200		6.99	0	6.99	24	Pass
		5240		7.15	0	7.15	24	Pass
	n20	5180		7.44	0	7.44	24	Pass
		5200		2.36	0	2.36	24	Pass
		5240		7.13	0	7.13	24	Pass
	n40	5190		7.42	0	7.42	24	Pass
		5230		7.17	0	7.17	24	Pass
	ac20	5180		7.44	0	7.44	24	Pass
		5200		7.02	0	7.02	24	Pass
		5240		7.16	0	7.16	24	Pass
	ac40	5190		7.1	0	7.1	24	Pass
		5230		7.07	0	7.07	24	Pass
	ax20	5180		7.48	0	7.48	24	Pass
		5200		6.98	0	6.98	24	Pass
		5240		7.18	0	7.18	24	Pass
	ax40	5190		7.1	0	7.1	24	Pass
		5230		7.06	0	7.06	24	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH36, CH40, CH48, CH149, CH153 and CH161

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	6.37	0	6.37	30	Pass
		5785		8.89	0	8.89	30	Pass
		5825		6.67	0	6.67	30	Pass
	n20	5745		8.54	0	8.54	30	Pass
		5785		8.78	0	8.78	30	Pass
		5825		2.99	0	2.99	30	Pass
	n40	5755		1.53	0	1.53	30	Pass
		5795		2.36	0	2.36	30	Pass
	ac20	5745		2.37	0	2.37	30	Pass
		5785		1.85	0	1.85	30	Pass
		5825		3.35	0	3.35	30	Pass
	ac40	5755		2.07	0	2.07	30	Pass
		5795		1.76	0	1.76	30	Pass
	ax20	5745		1.79	0	1.79	30	Pass
		5785		1.62	0	1.62	30	Pass
		5825		2.06	0	2.06	30	Pass
	ax40	5755		1.78	0	1.78	30	Pass
		5795		1.33	0	1.33	30	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 for CH36, CH40, CH48, CH149, CH153 and CH161

2. The result basic equation calculation as follow:

Average Power Output = AV Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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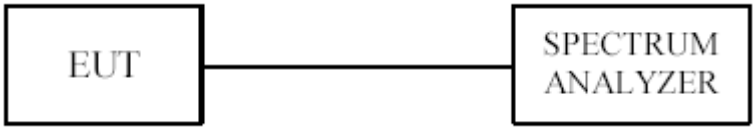
9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	√		30dBm/500kHz

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz or 500kHz
3. Set the VBW =3MHz or 2MHz
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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9.4Test Result

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-2.78	0.46	-2.32	11	Pass
		5200		-3.43	0.36	-3.07	11	Pass
		5240		-3.81	0.18	-3.63	11	Pass
	n20	5180		-3.56	1.24	-2.32	11	Pass
		5200		-3.55	0.21	-3.34	11	Pass
		5240		-3.86	0.35	-3.51	11	Pass
	n40	5190		-7.11	0.75	-6.36	11	Pass
		5230		-7.49	0.47	-7.02	11	Pass
	ac20	5180		-3.38	0.27	-3.11	11	Pass
		5200		-3.59	0.23	-3.36	11	Pass
		5240		-4.02	1.02	-3	11	Pass
	ac40	5190		-7.15	0.6	-6.55	11	Pass
		5230		-7.32	1.5	-5.82	11	Pass
	ax20	5180		-4.17	0.4	-3.77	11	Pass
		5200		-3.61	0.4	-3.21	11	Pass
		5240		-4.17	0.43	-3.74	11	Pass
	ax40	5190		-7.47	0.38	-7.09	11	Pass
		5230		-7.54	0.28	-7.26	11	Pass

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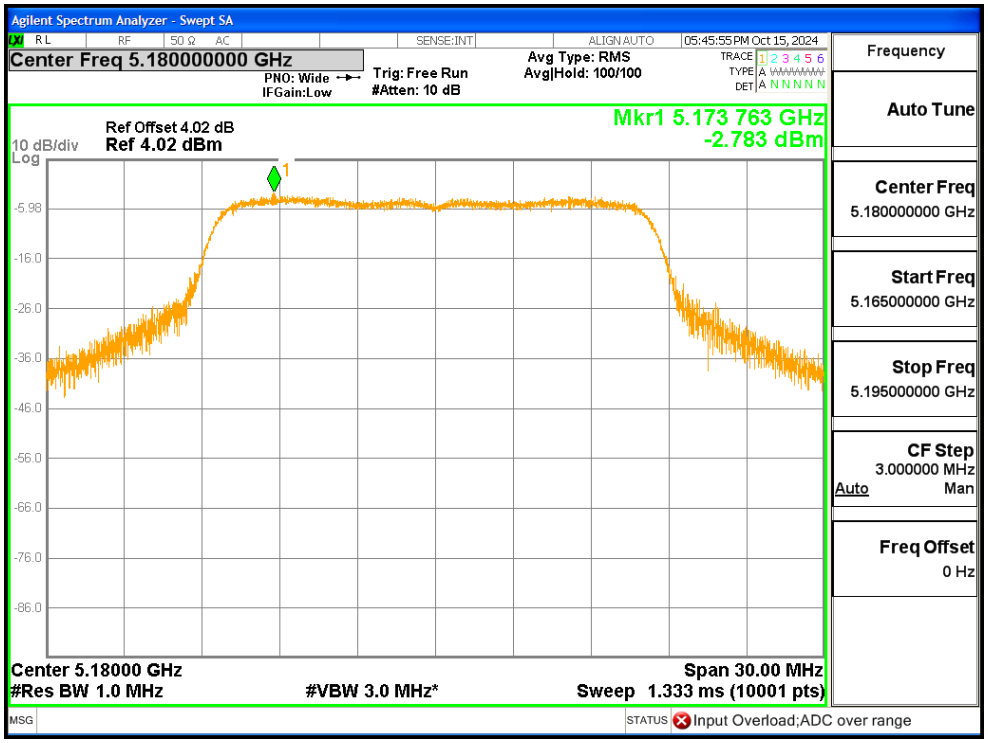
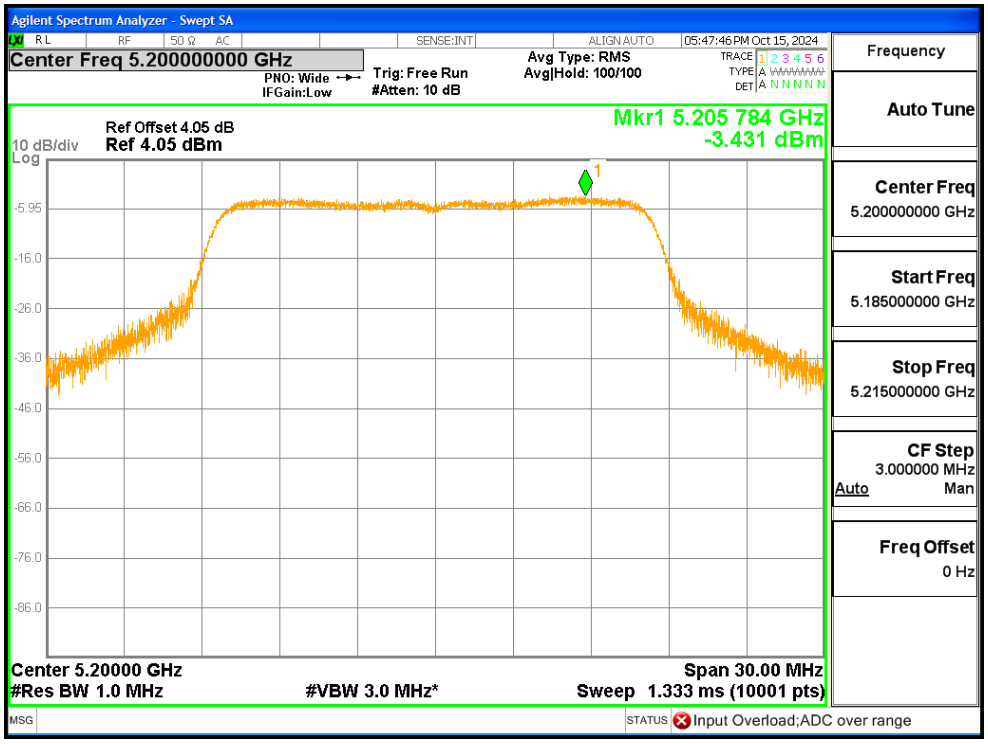
Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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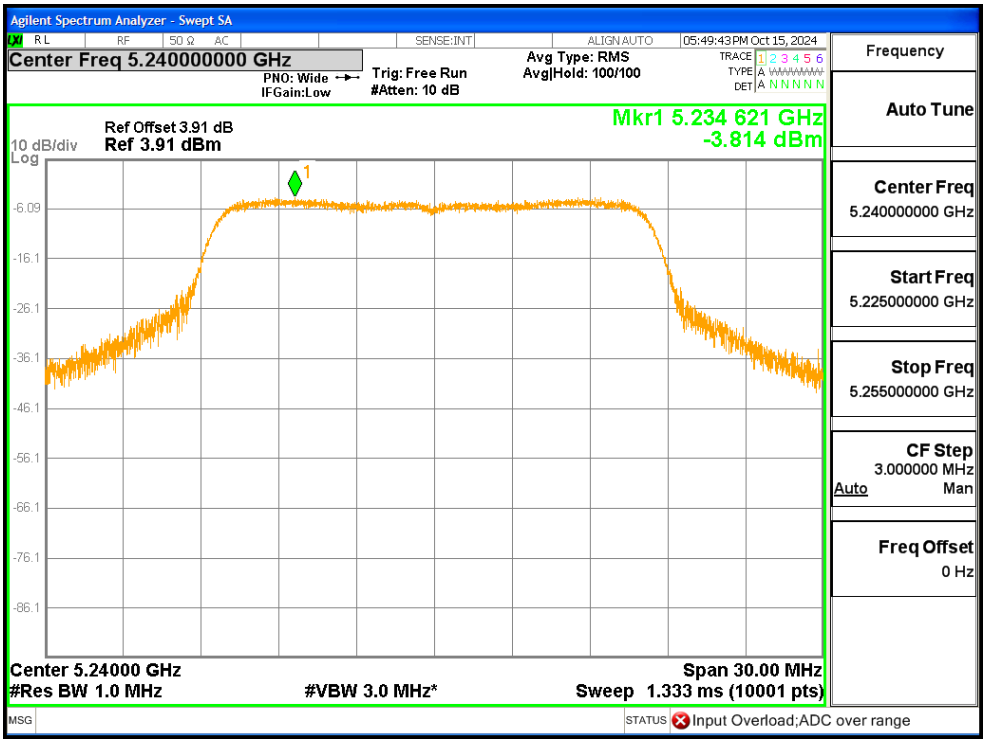
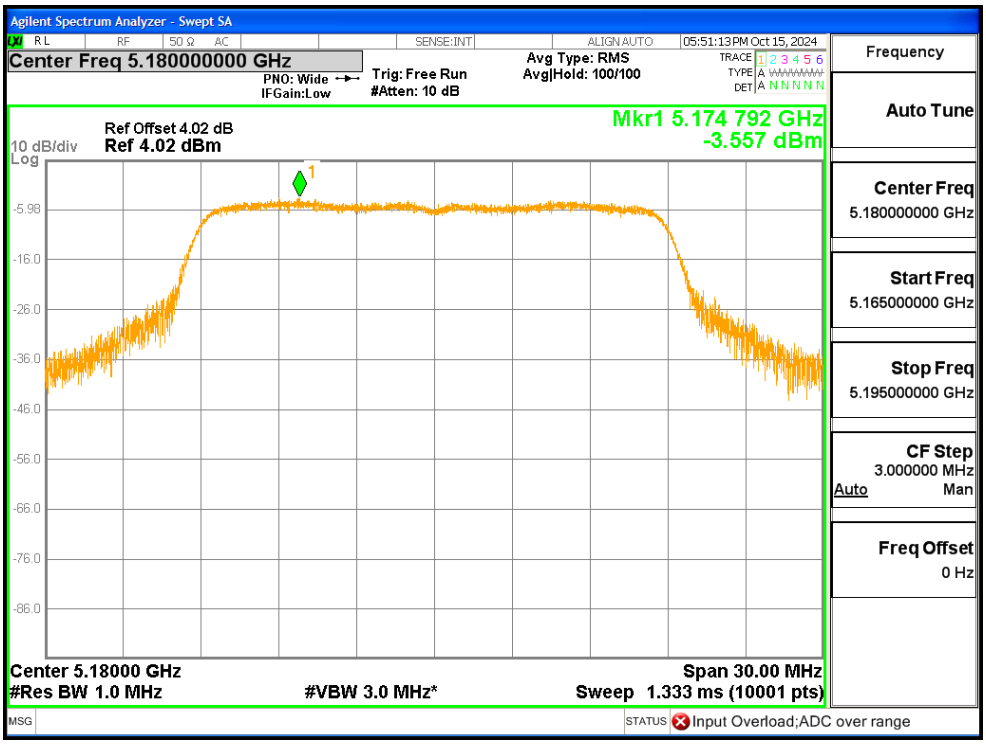
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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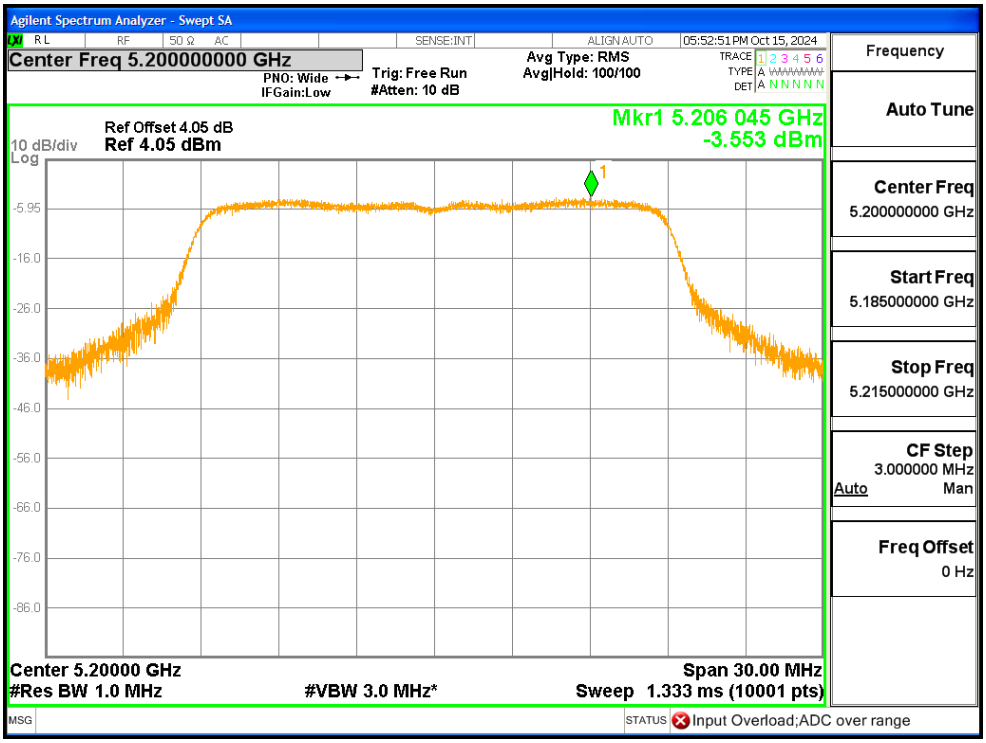
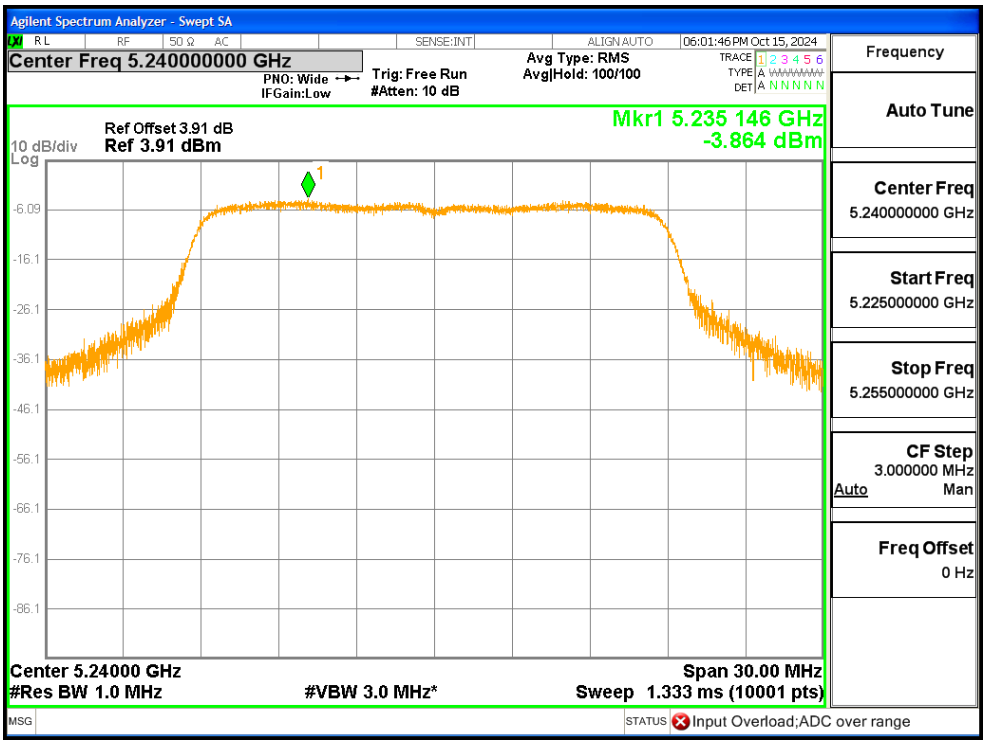
PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



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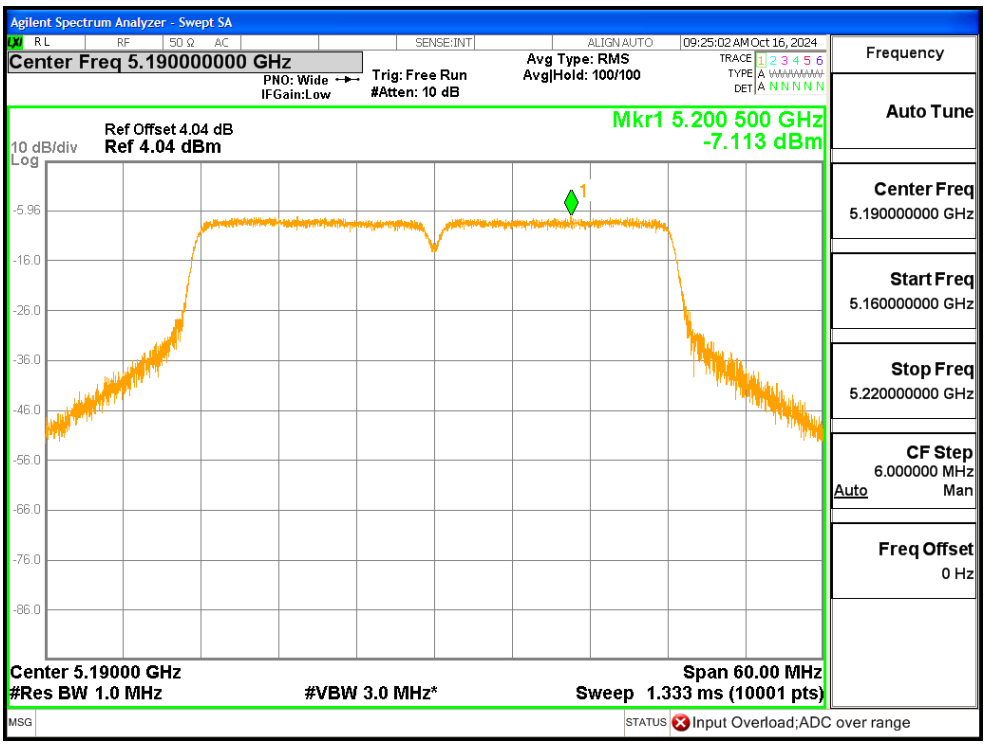
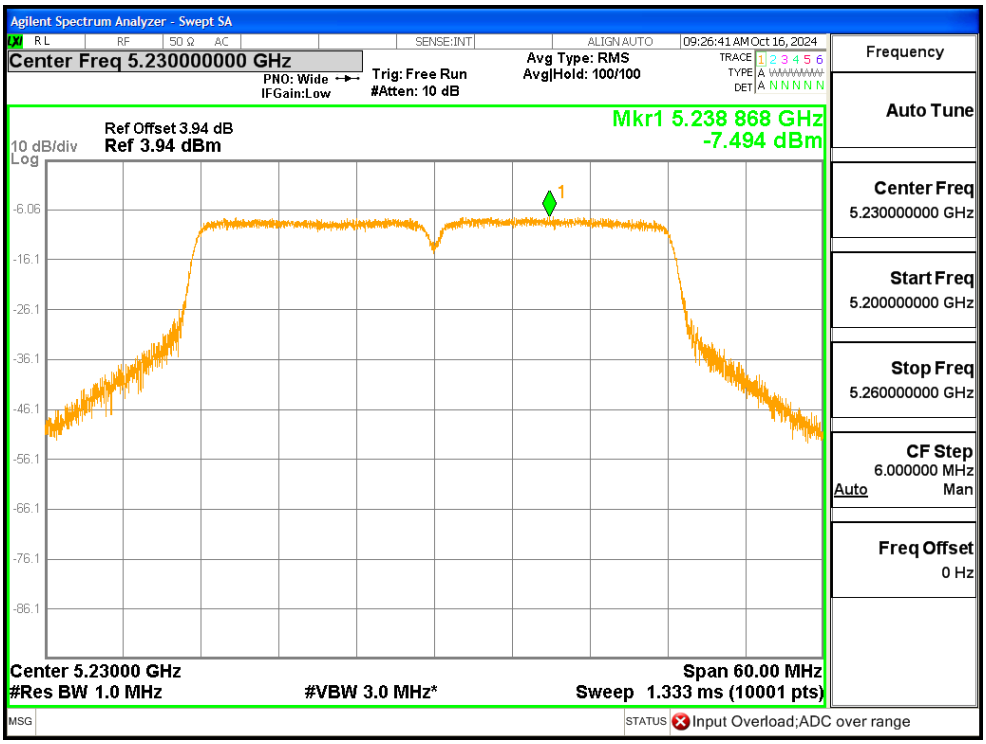
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



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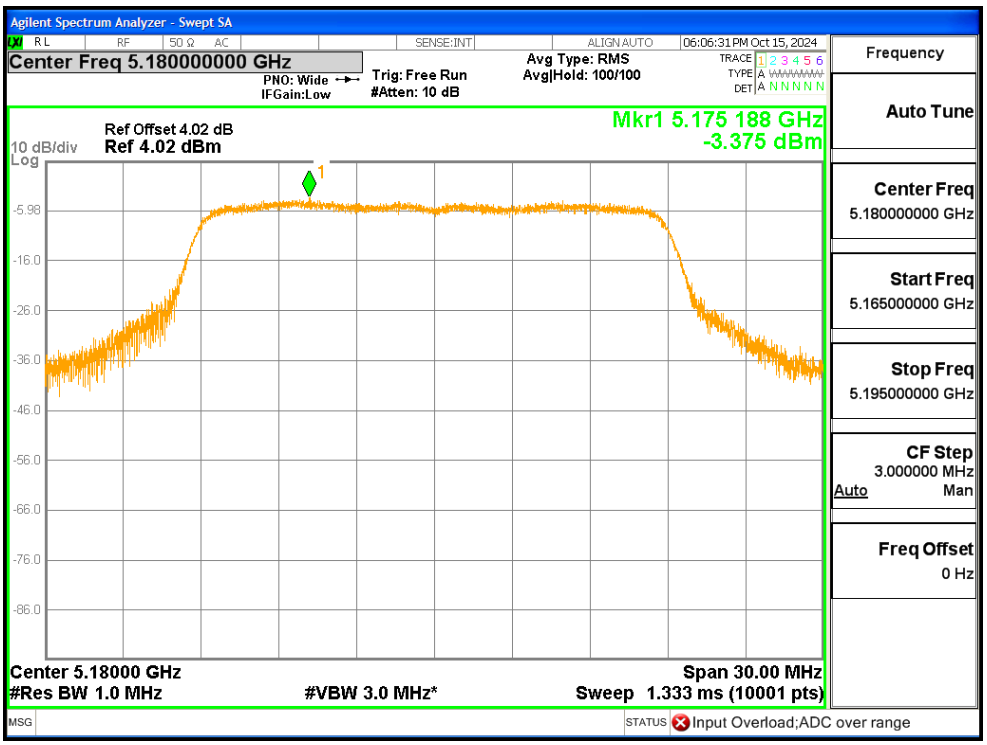
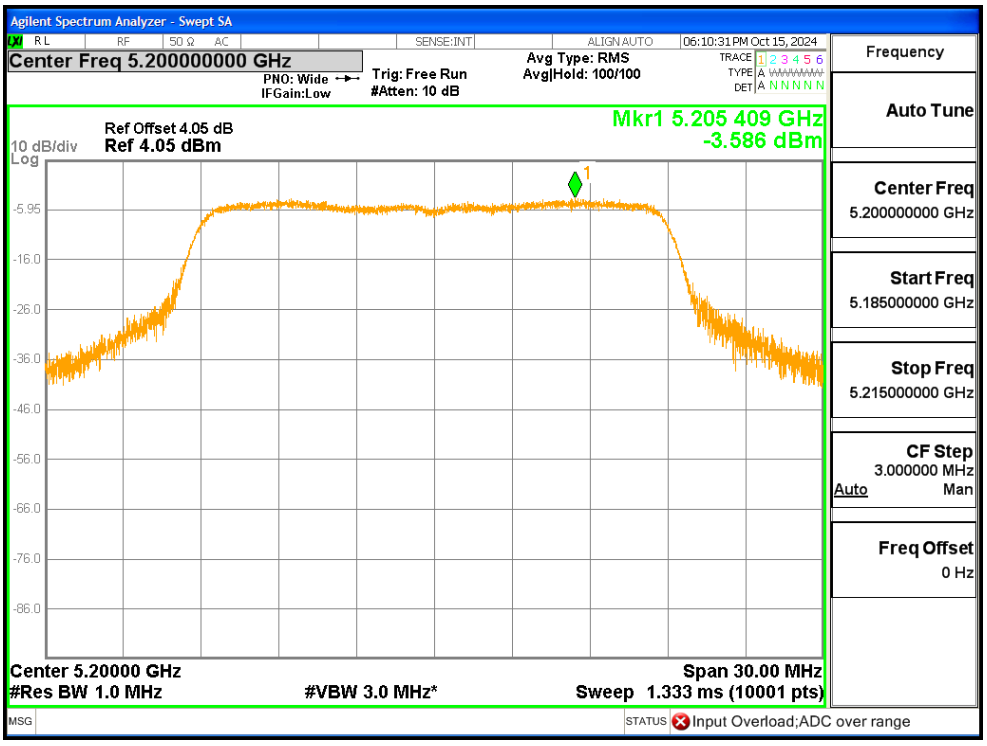
PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



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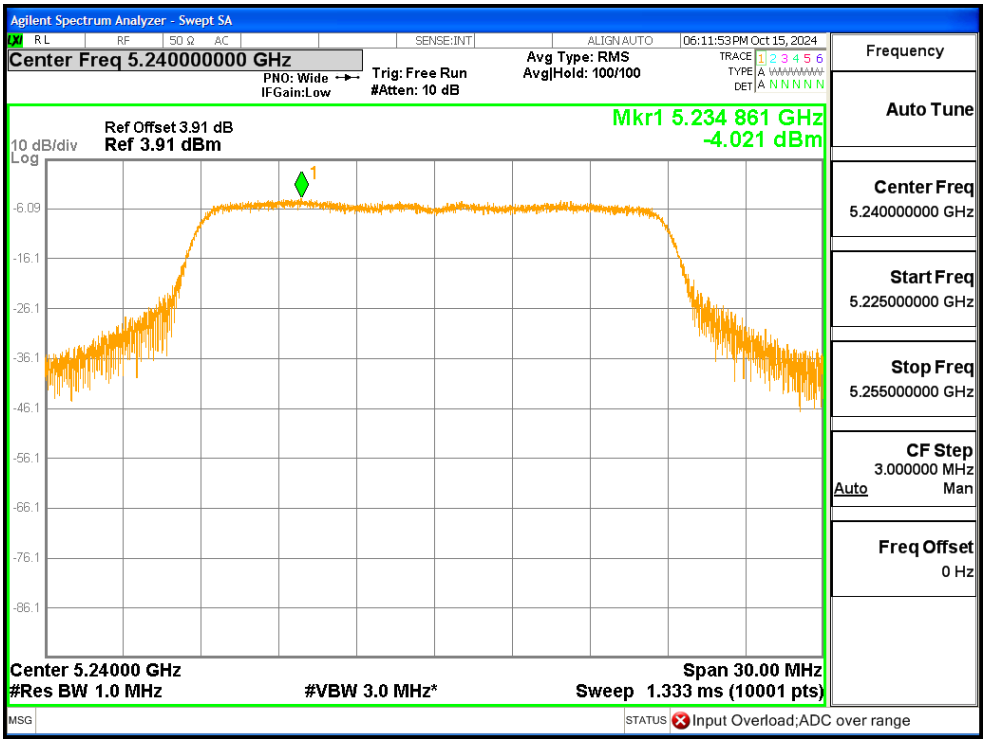
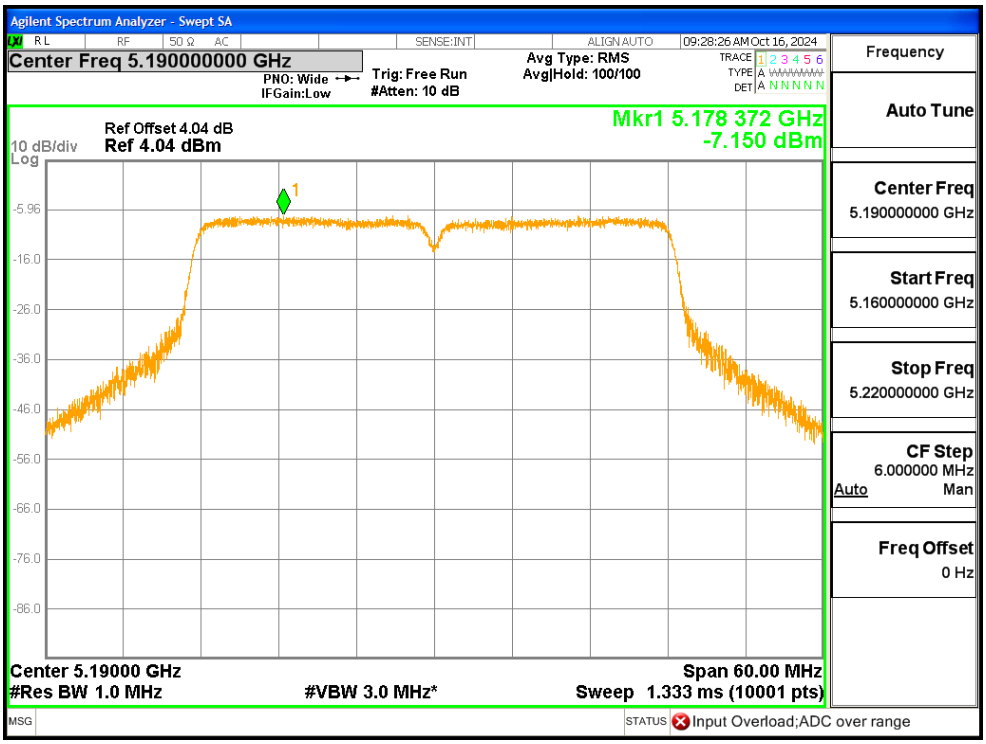
PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



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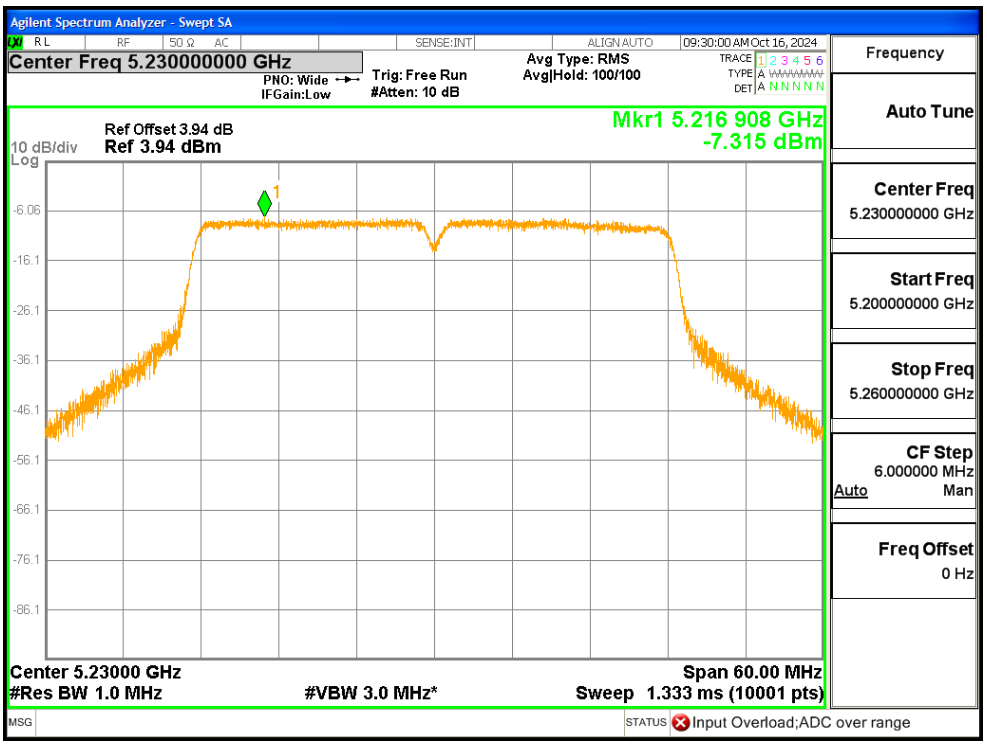
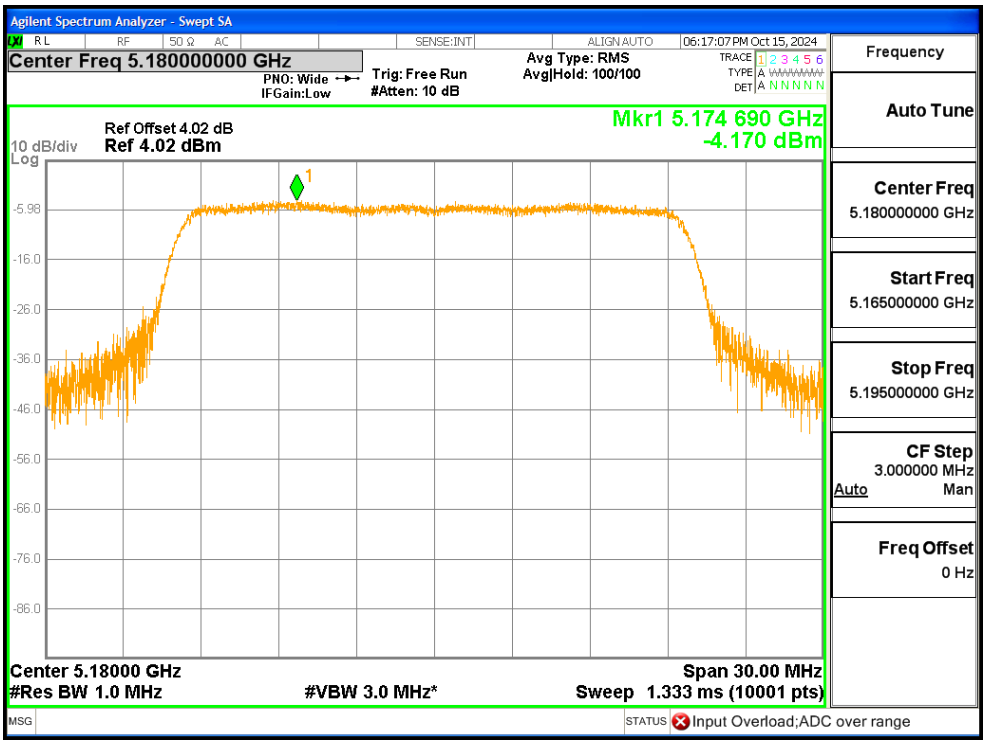
PSD NVNT ac40 5230MHz Ant1



PSD NVNT ax20 5180MHz Ant1



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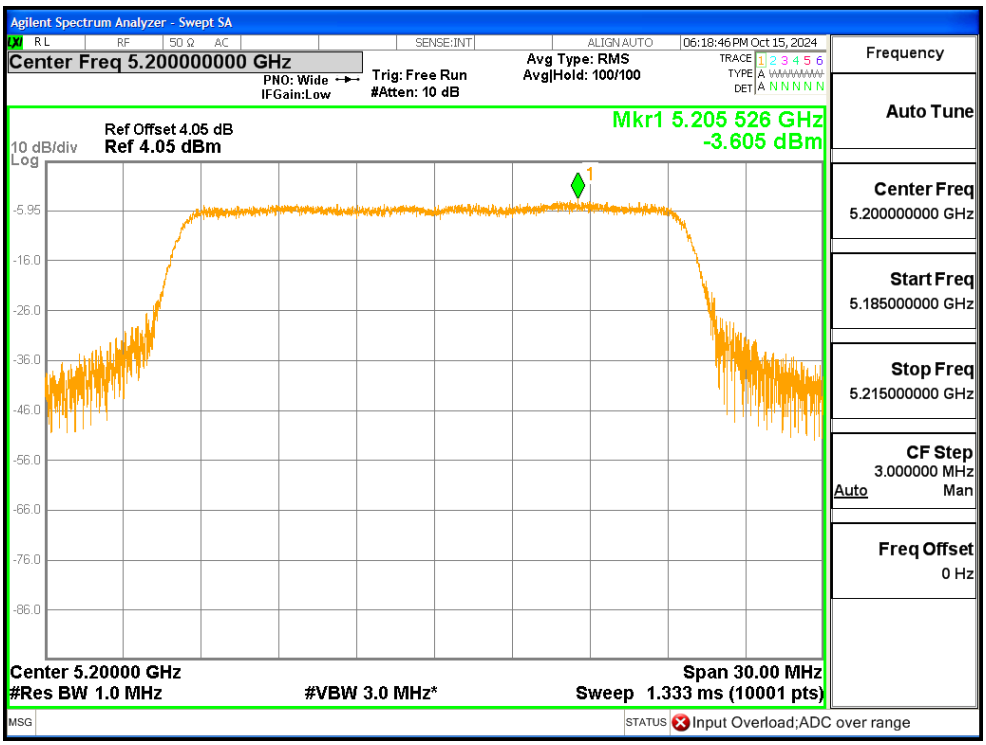
PSD NVNT ax20 5200MHz Ant1



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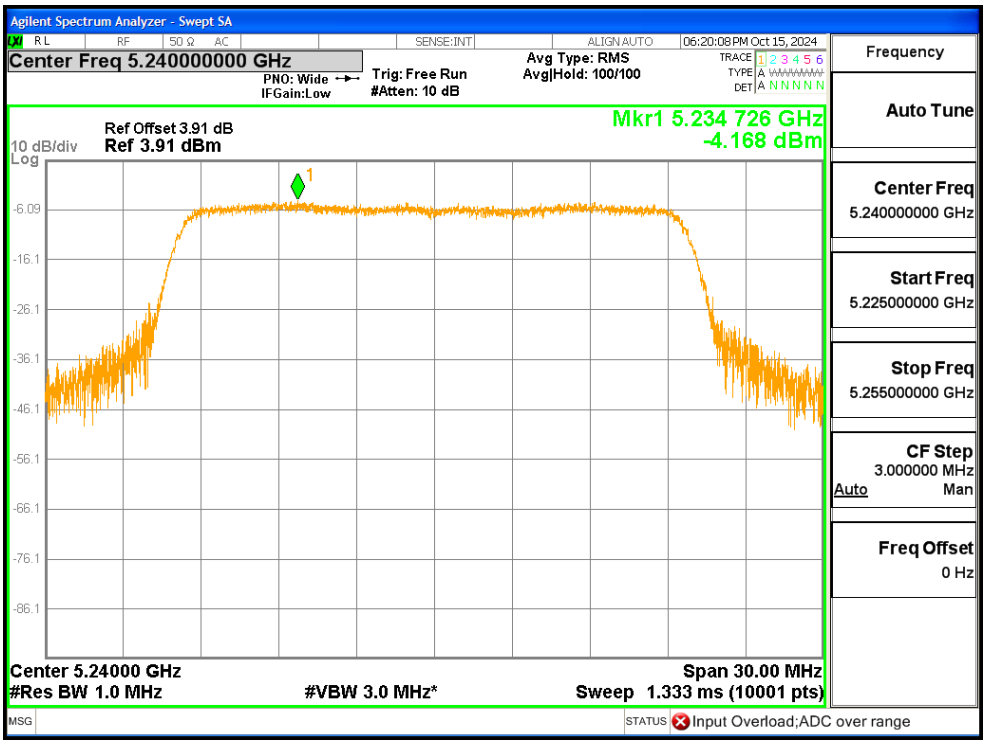

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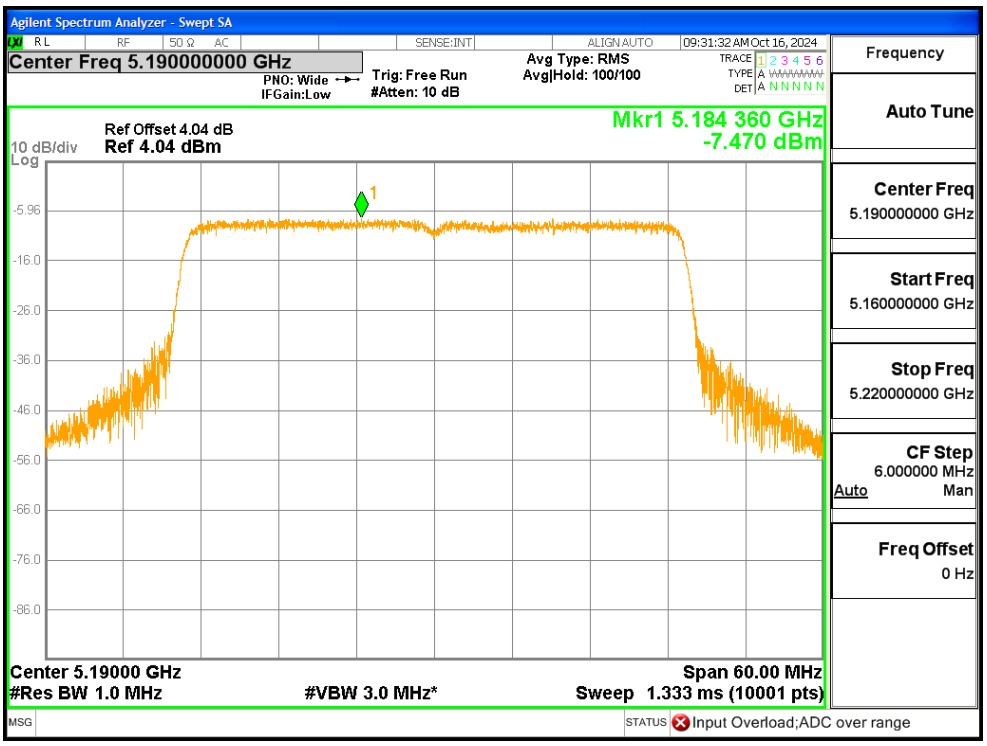
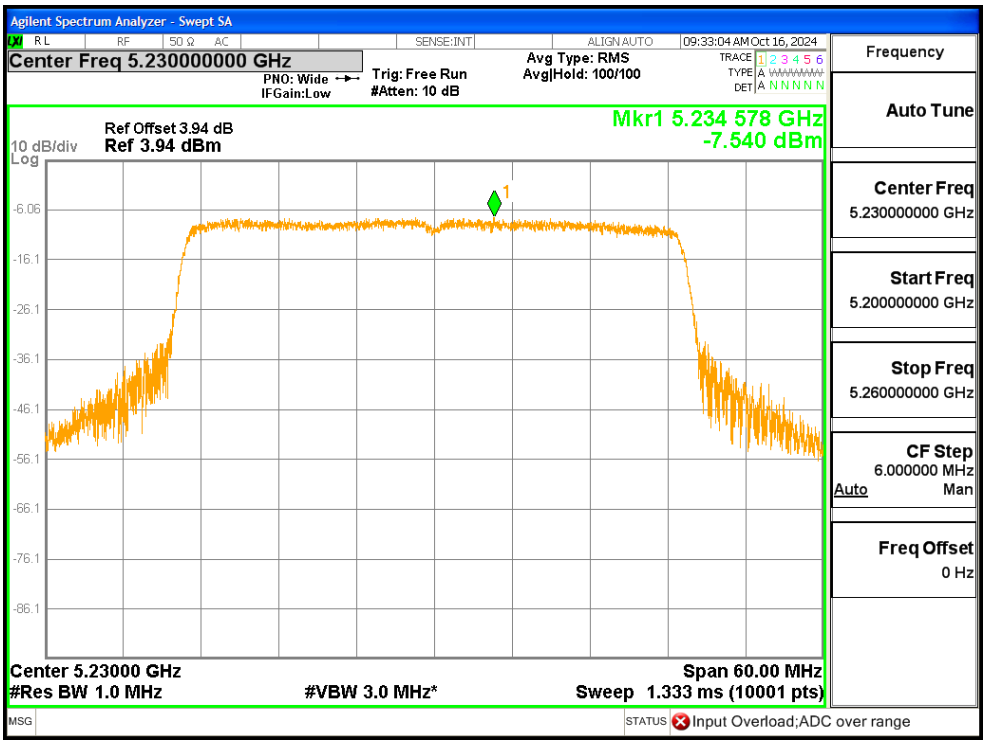
PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-7.12	0.38	-6.74	30	Pass
		5785		-4.59	0.2	-4.39	30	Pass
		5825		-6.88	0.2	-6.68	30	Pass
	n20	5745		-4.96	0.19	-4.77	30	Pass
		5785		-4.78	0.38	-4.4	30	Pass
		5825		-10.75	0.37	-10.38	30	Pass
	n40	5755		-15.79	0	-15.79	30	Pass
		5795		-14.73	20.81	6.08	30	Pass
	ac20	5745		-11.39	0.26	-11.13	30	Pass
		5785		-11.75	0.31	-11.44	30	Pass
		5825		-10.39	0.37	-10.02	30	Pass
	ac40	5755		-14.91	0	-14.91	30	Pass
		5795		-15.26	18.79	3.53	30	Pass
	ax20	5745		-12.2	0.42	-11.78	30	Pass
		5785		-12.03	0.42	-11.61	30	Pass
		5825		-11.38	0.47	-10.91	30	Pass
	ax40	5755		-15.29	12.79	-2.5	30	Pass
		5795		-15.49	6.99	-8.5	30	Pass

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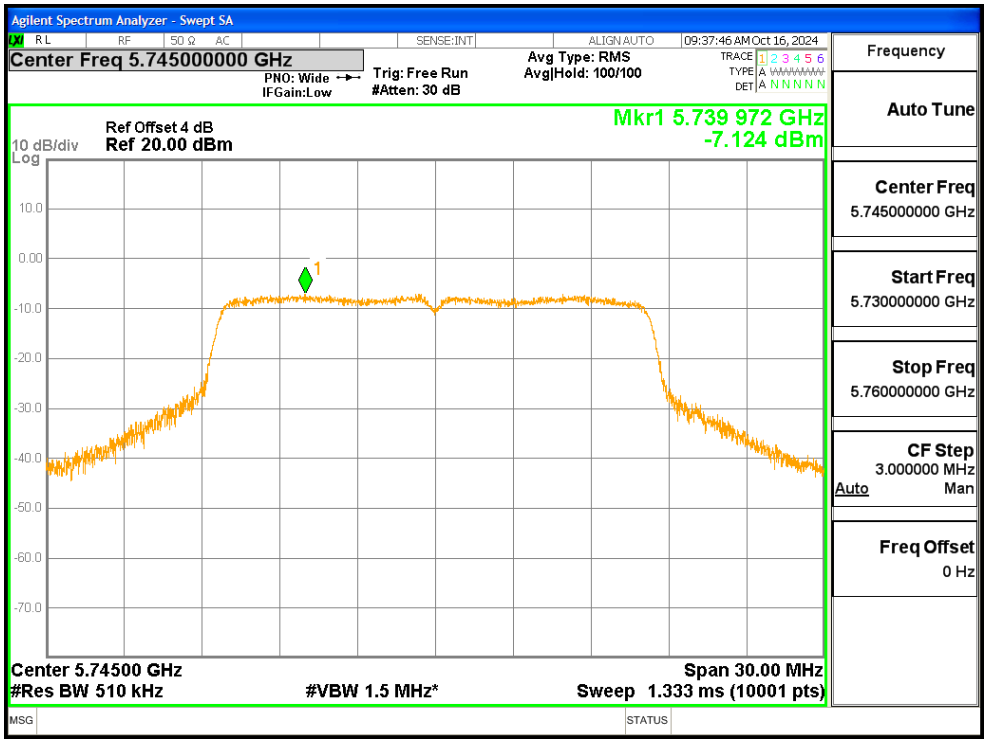
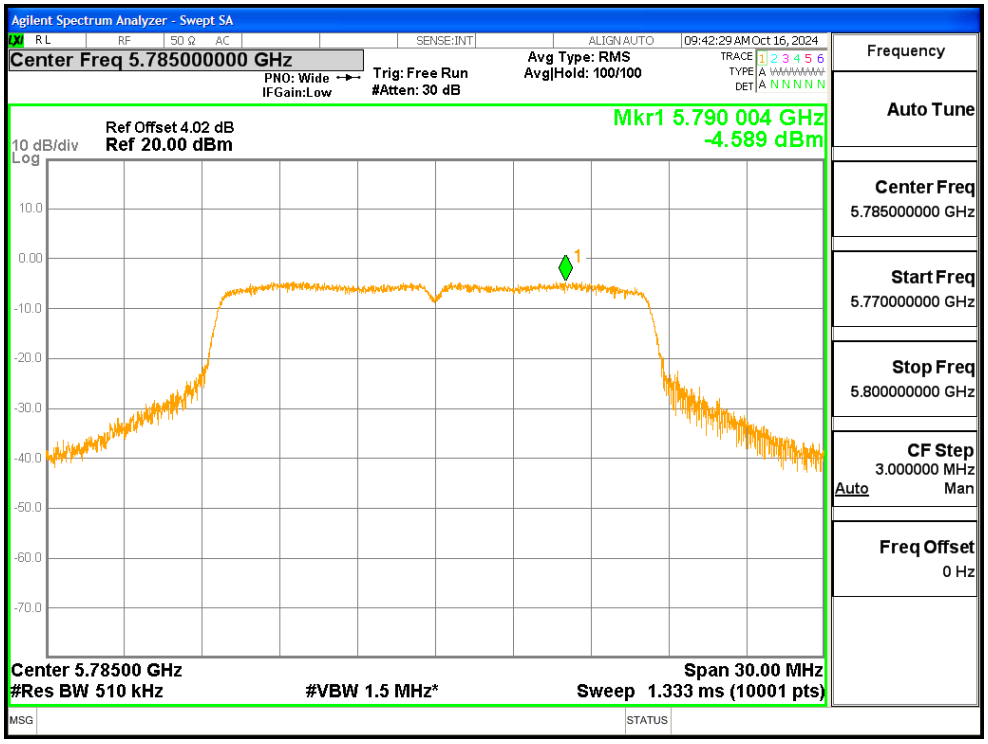
Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



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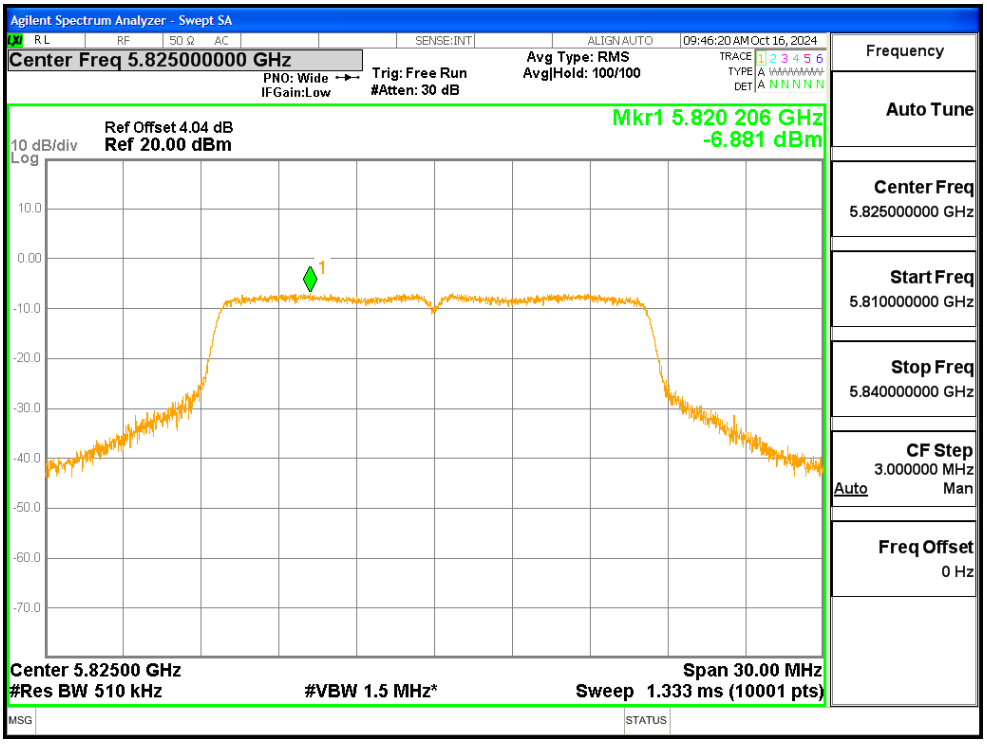
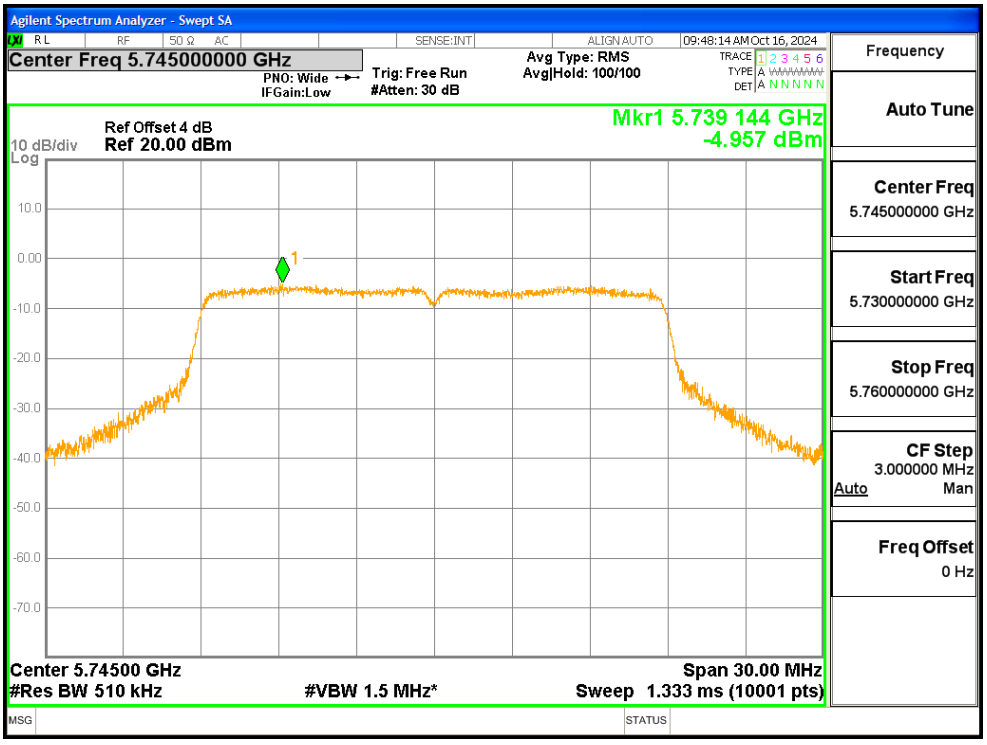
PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



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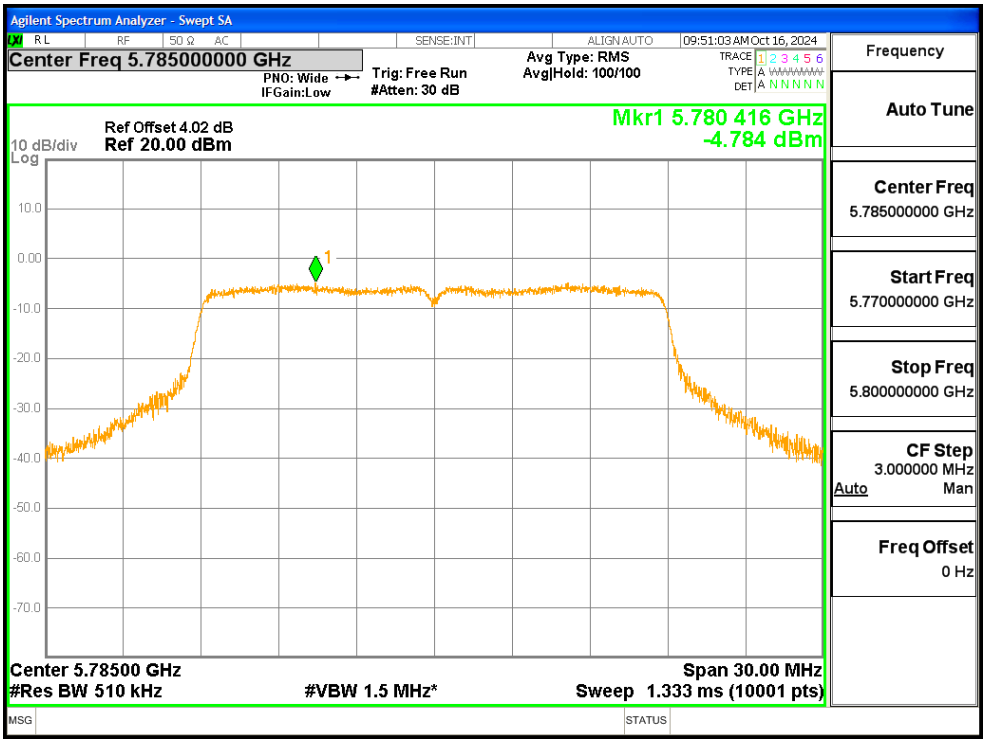
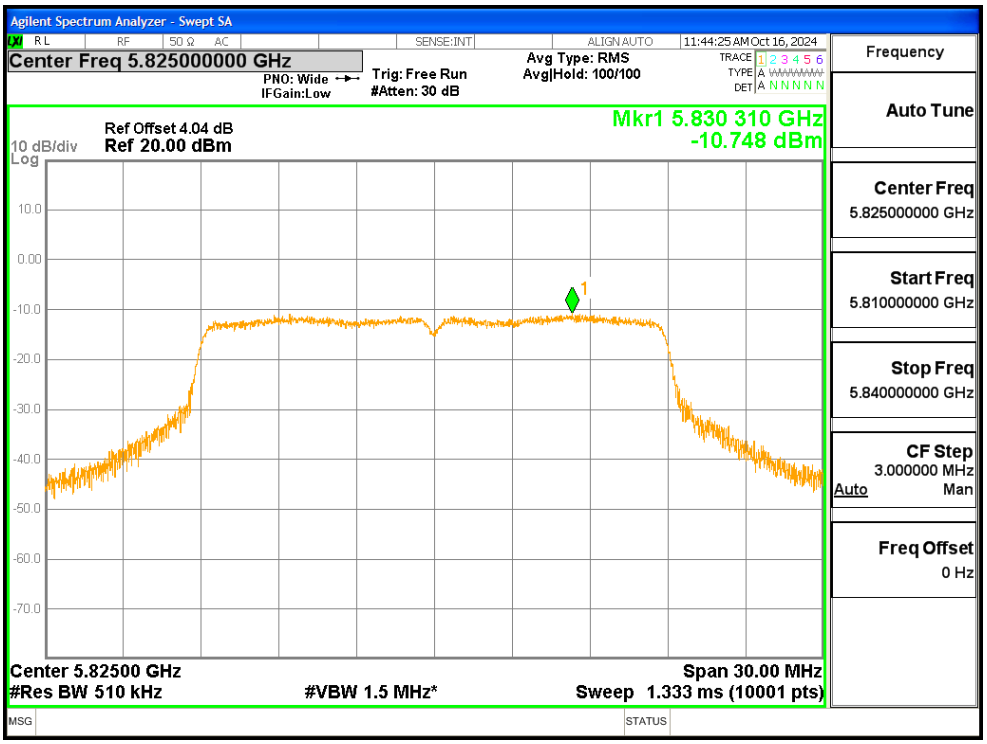
PSD NVNT n20 5785MHz Ant1



PSD NVNT n20 5825MHz Ant1



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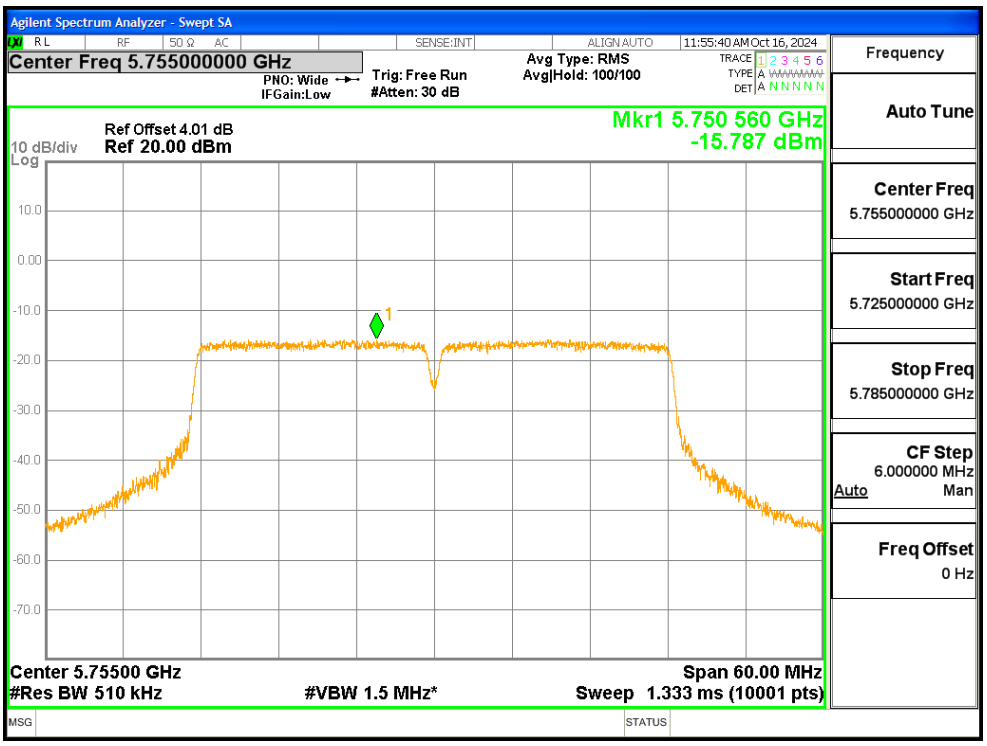
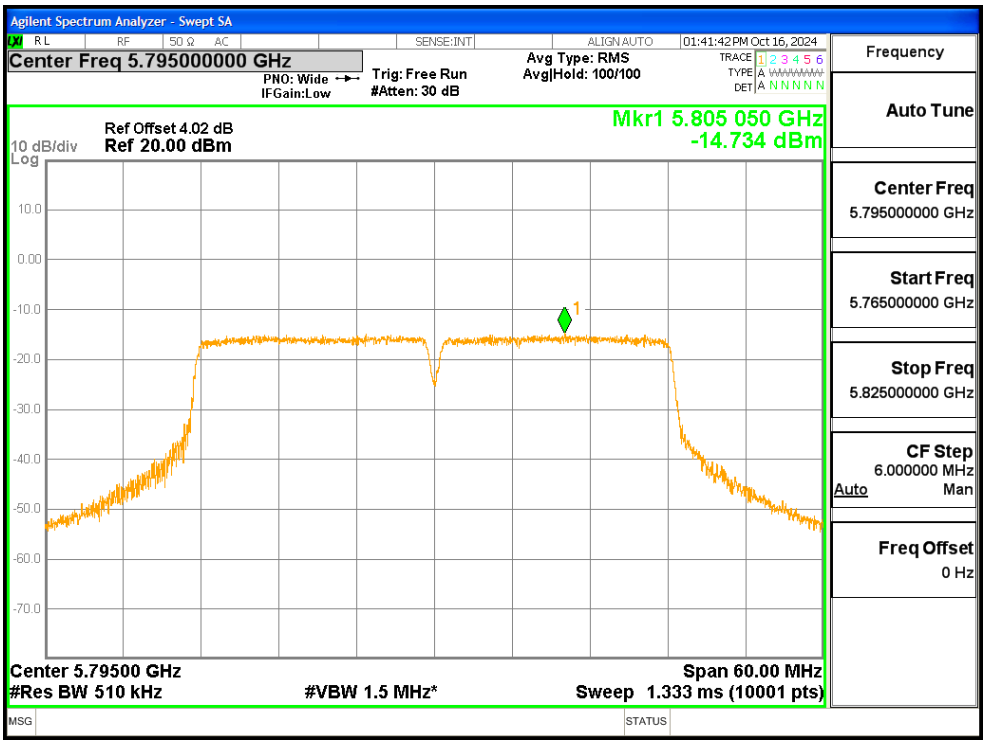
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1



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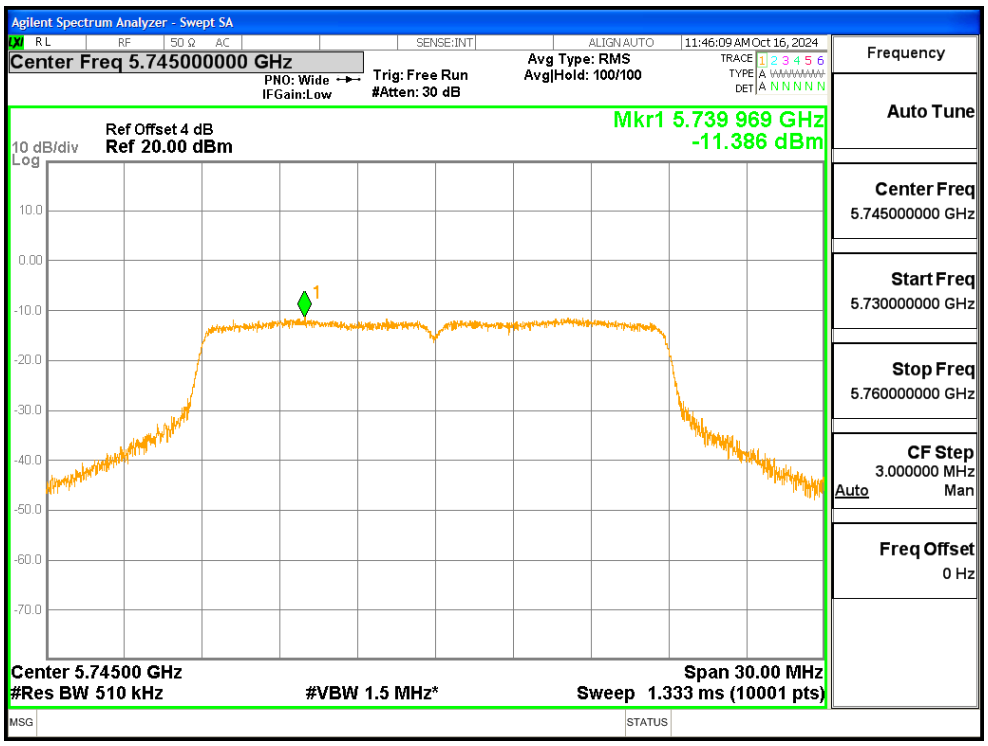
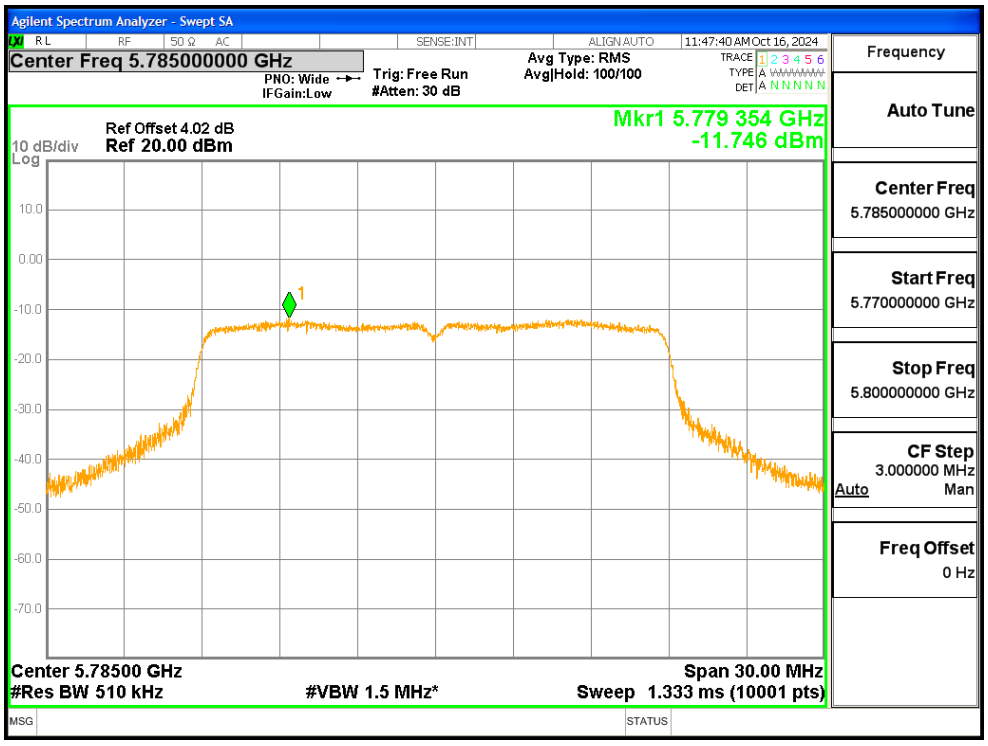
PSD NVNT ac20 5745MHz Ant1



PSD NVNT ac20 5785MHz Ant1



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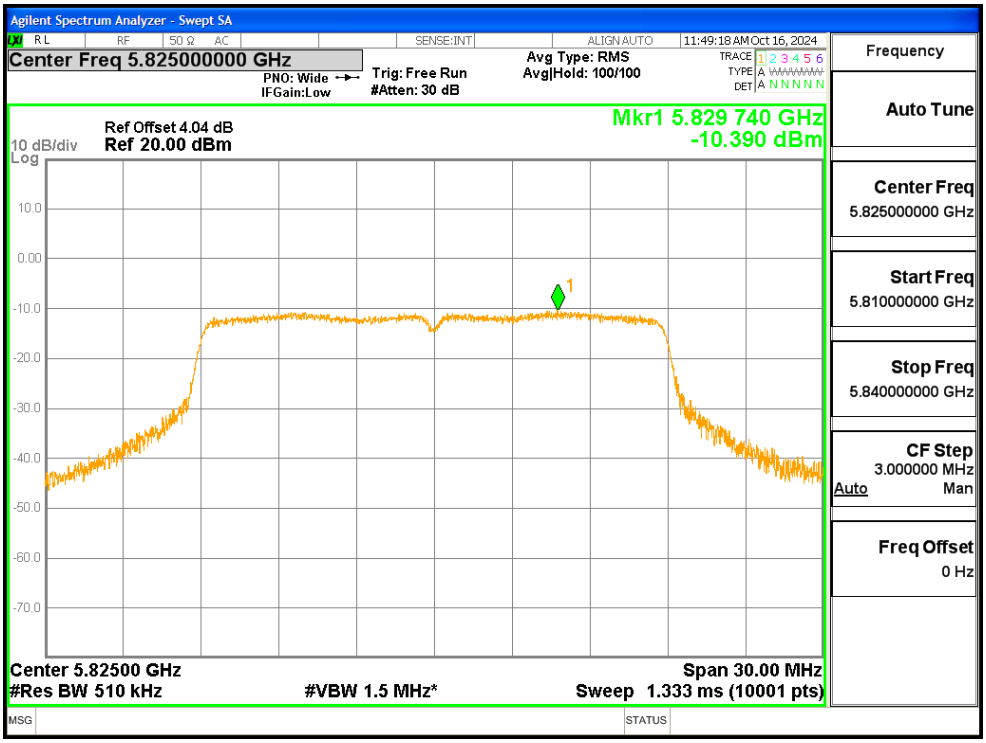
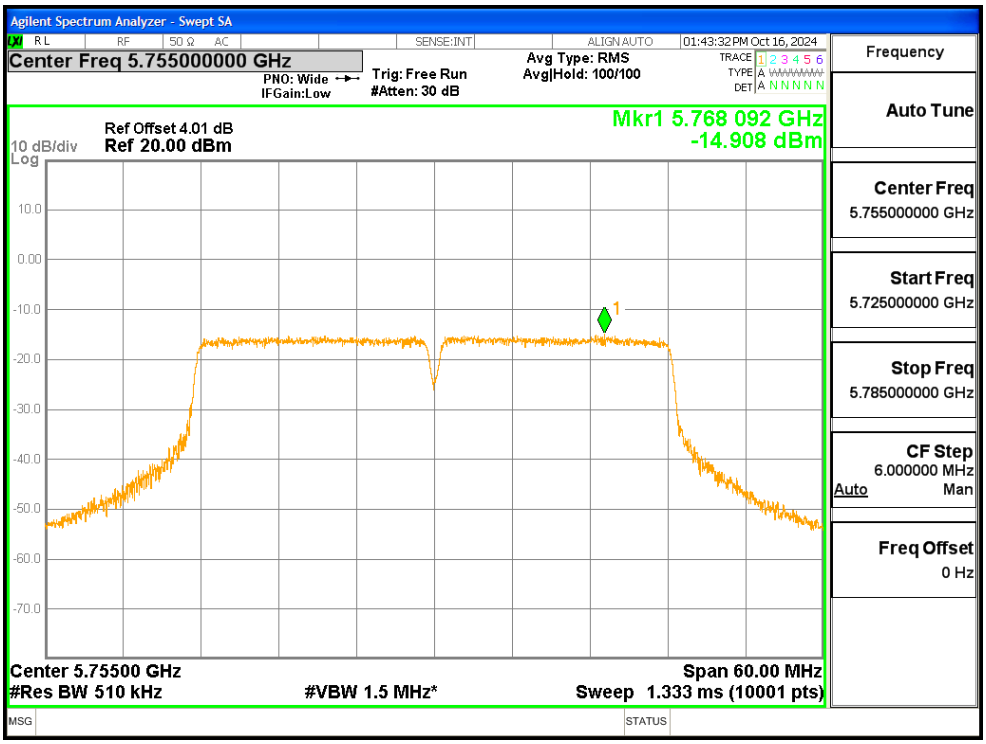
PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1



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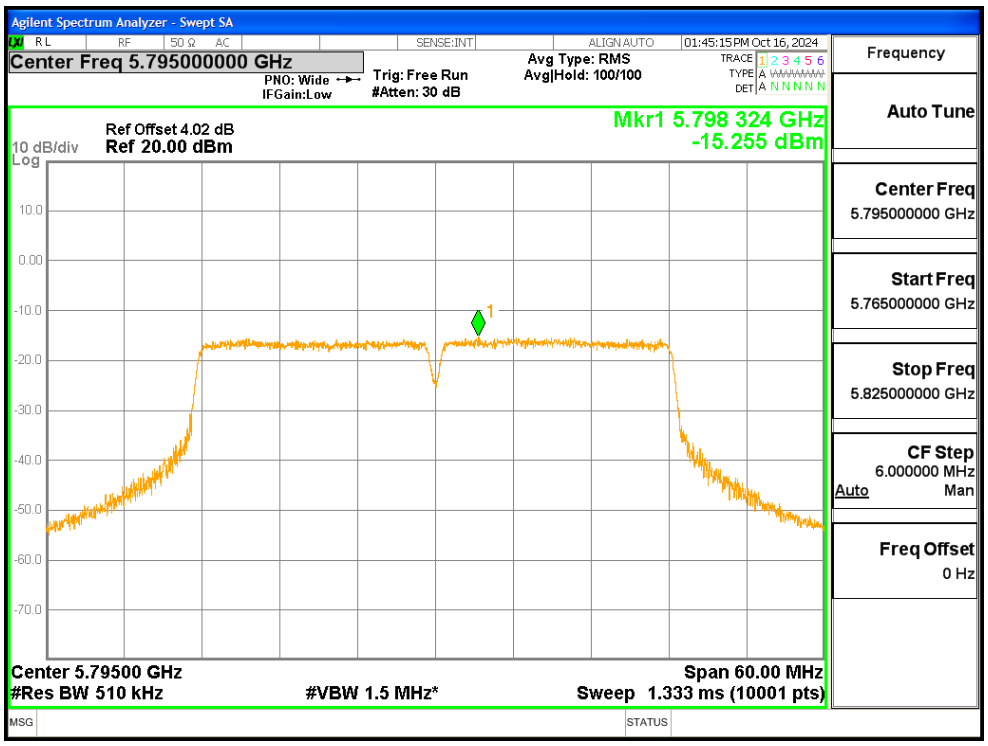
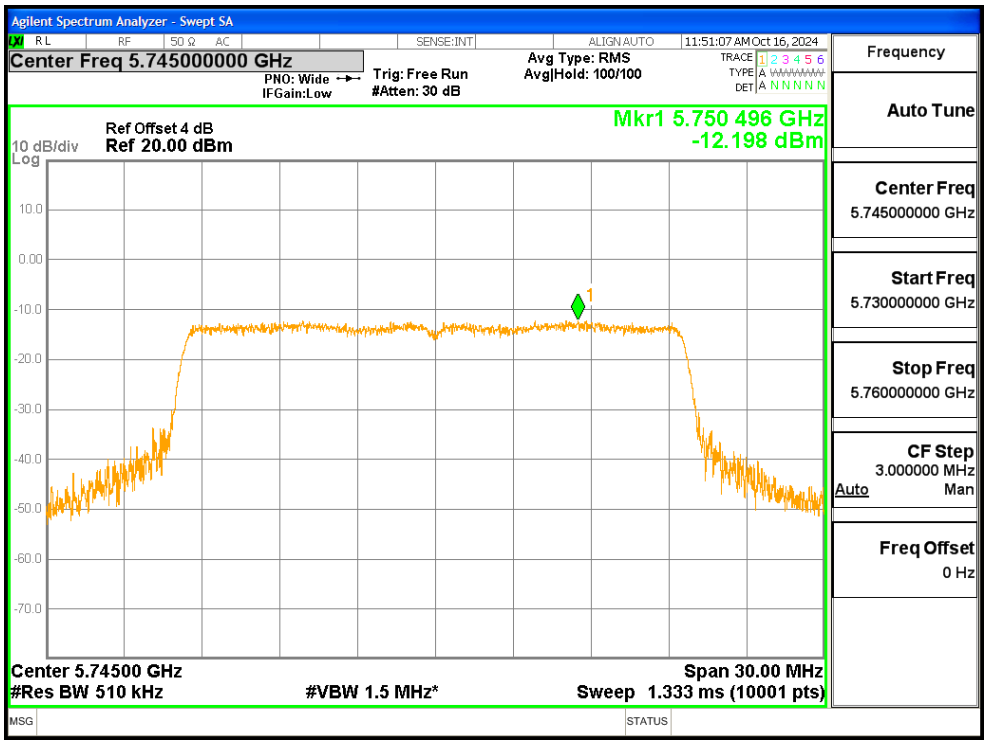
PSD NVNT ac40 5795MHz Ant1



PSD NVNT ax20 5745MHz Ant1



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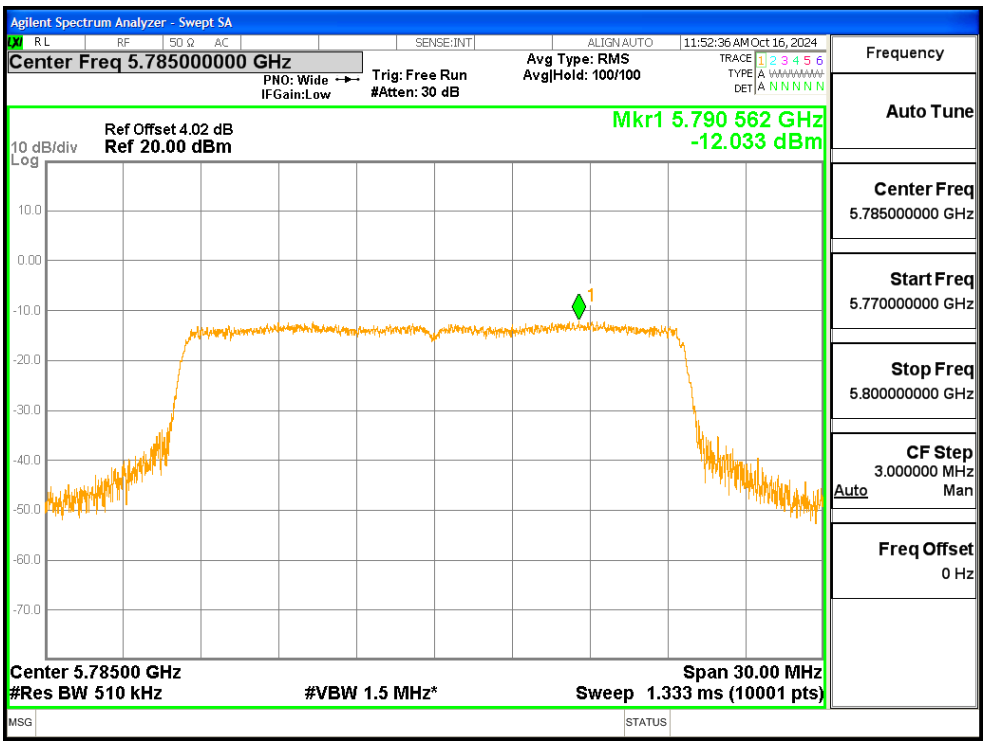
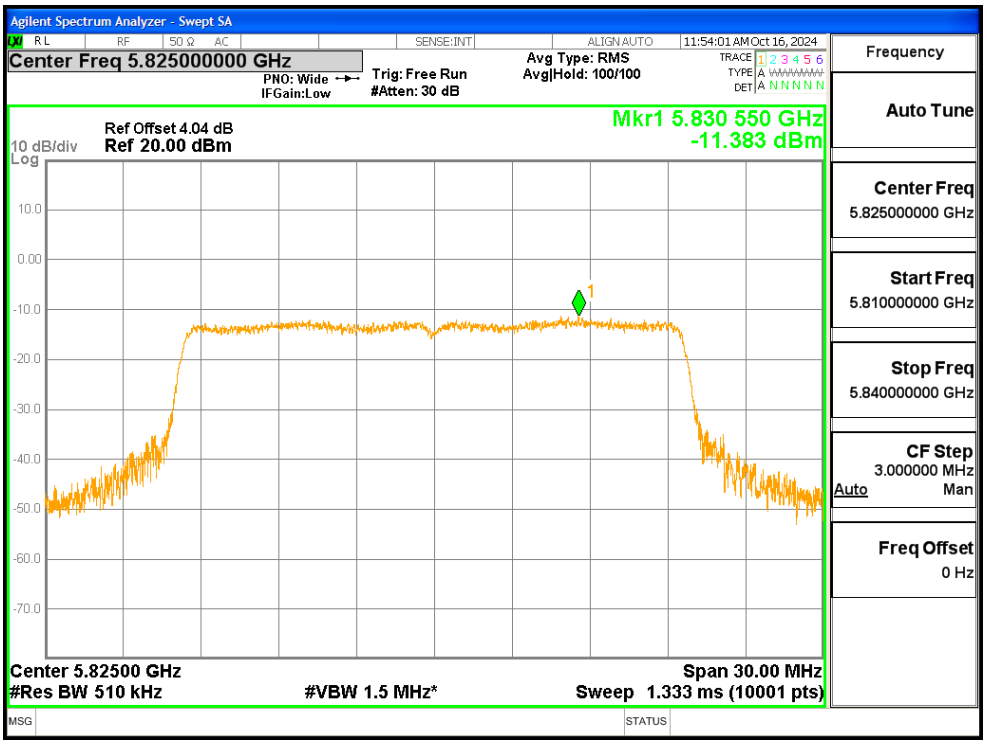
PSD NVNT ax20 5785MHz Ant1



PSD NVNT ax20 5825MHz Ant1



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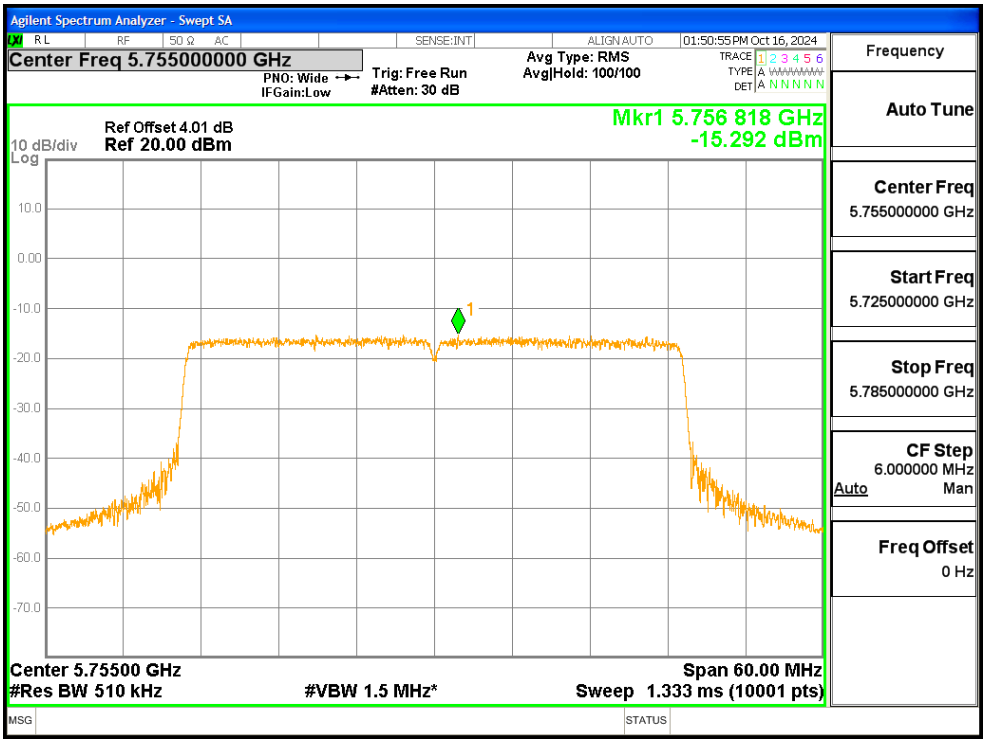
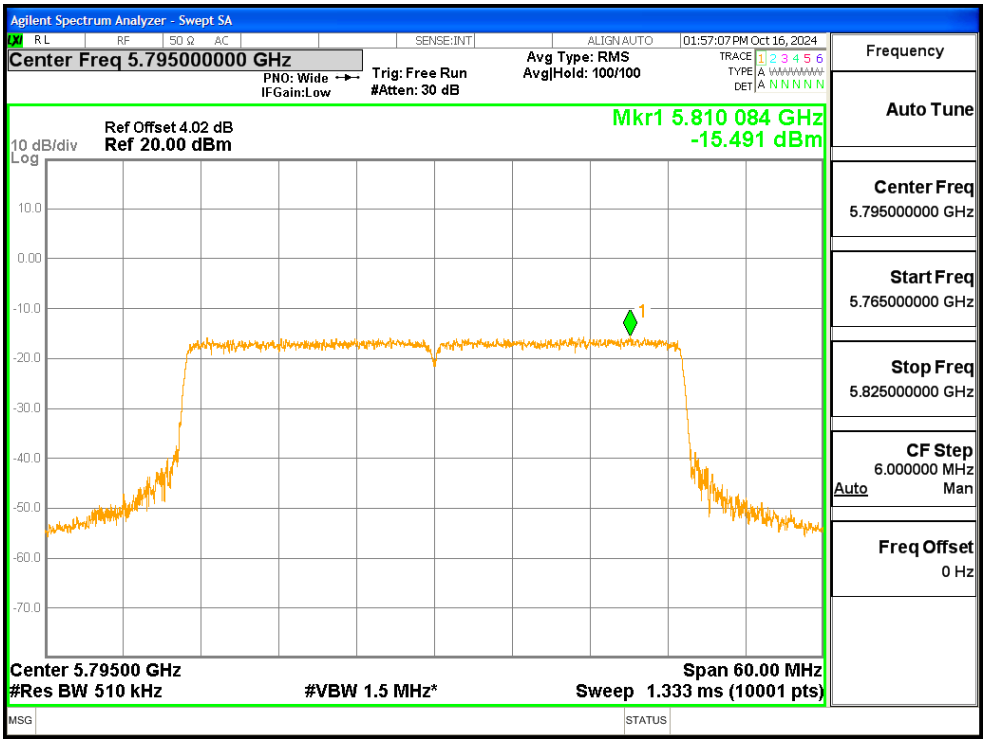
PSD NVNT ax40 5755MHz Ant1



PSD NVNT ax40 5795MHz Ant1



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10.0 Frequency Stability

10.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

10.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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10.3 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
		5200		5199.98	-20000	-3.85	25	Pass
		5240		5239.98	-20000	-3.82	25	Pass
	n20	5180		5179.98	-20000	-3.86	25	Pass
		5200		5199.96	-40000	-7.69	25	Pass
		5240		5239.94	-60000	-11.45	25	Pass
	n40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5230	0	0	25	Pass
	ac20	5180		5179.96	-40000	-7.72	25	Pass
		5200		5199.98	-20000	-3.85	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	ac40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5229.96	-40000	-7.65	25	Pass
	ax20	5180		5179.96	-40000	-7.72	25	Pass
		5200		5199.96	-40000	-7.69	25	Pass
		5240		5239.96	-40000	-7.63	25	Pass
	ax40	5190		5189.96	-40000	-7.71	25	Pass
		5230		5229.96	-40000	-7.65	25	Pass

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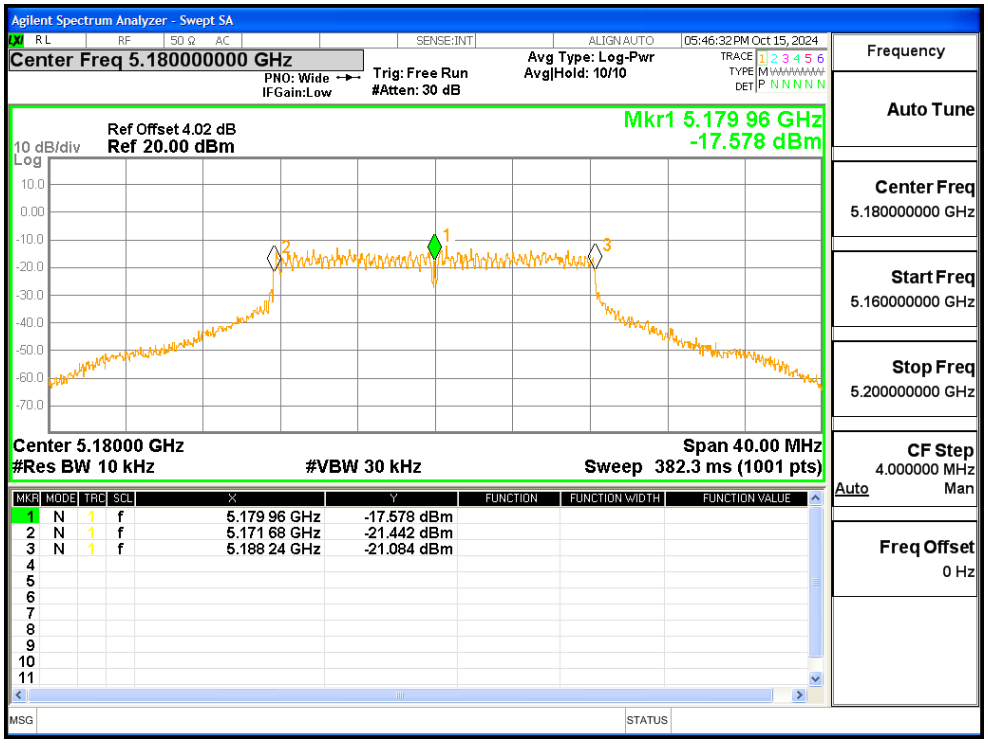
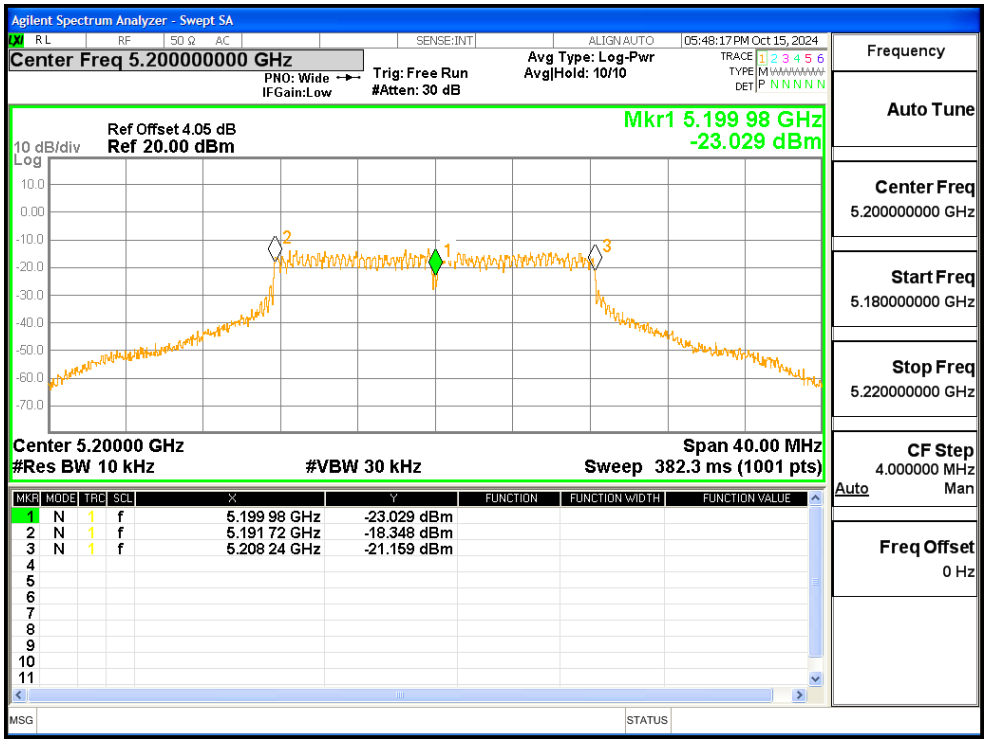
Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1



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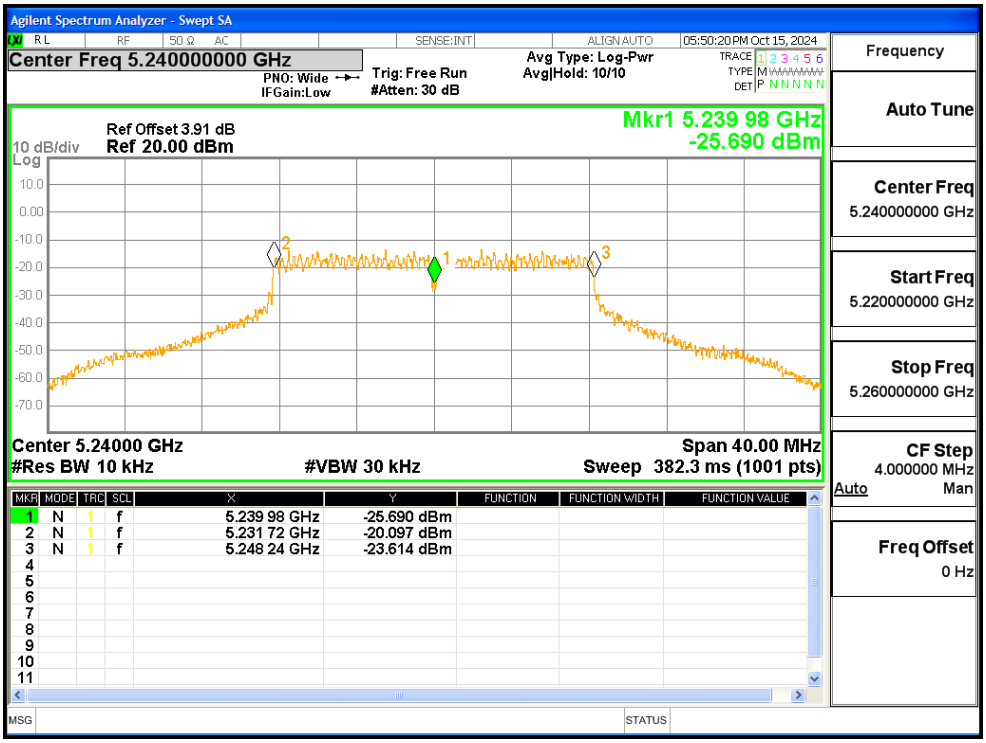
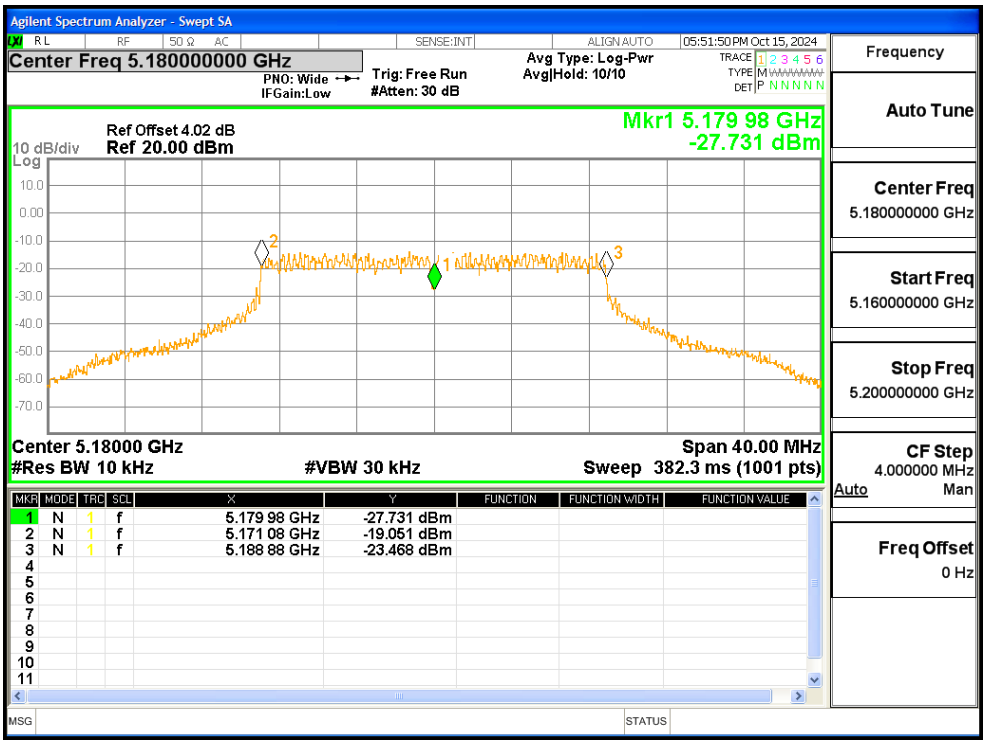
Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



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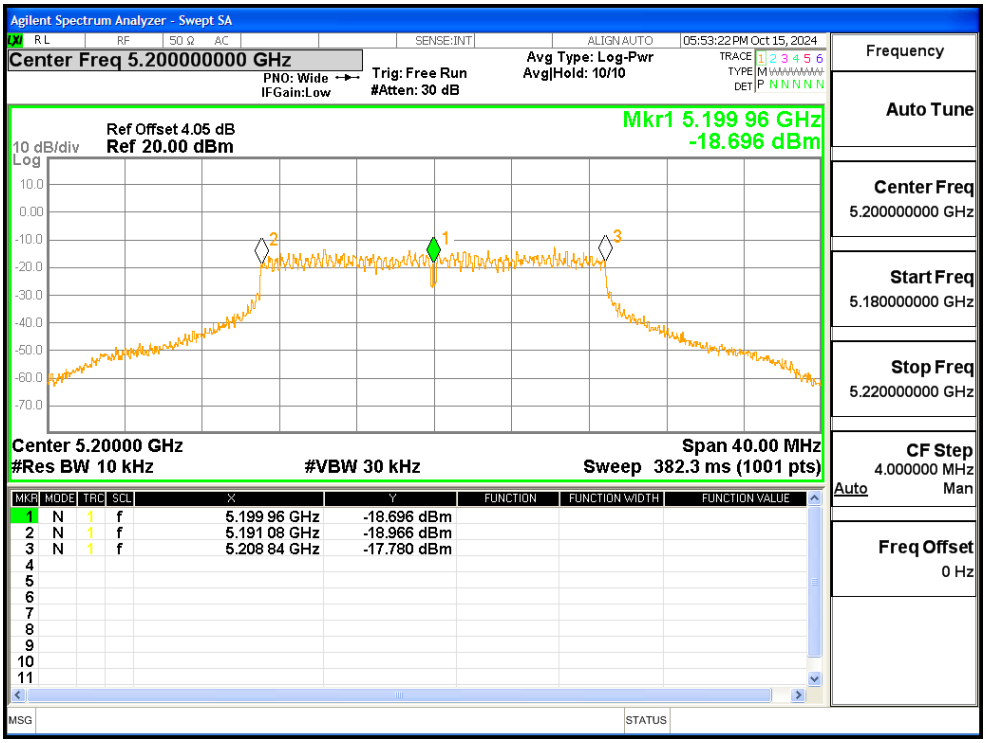
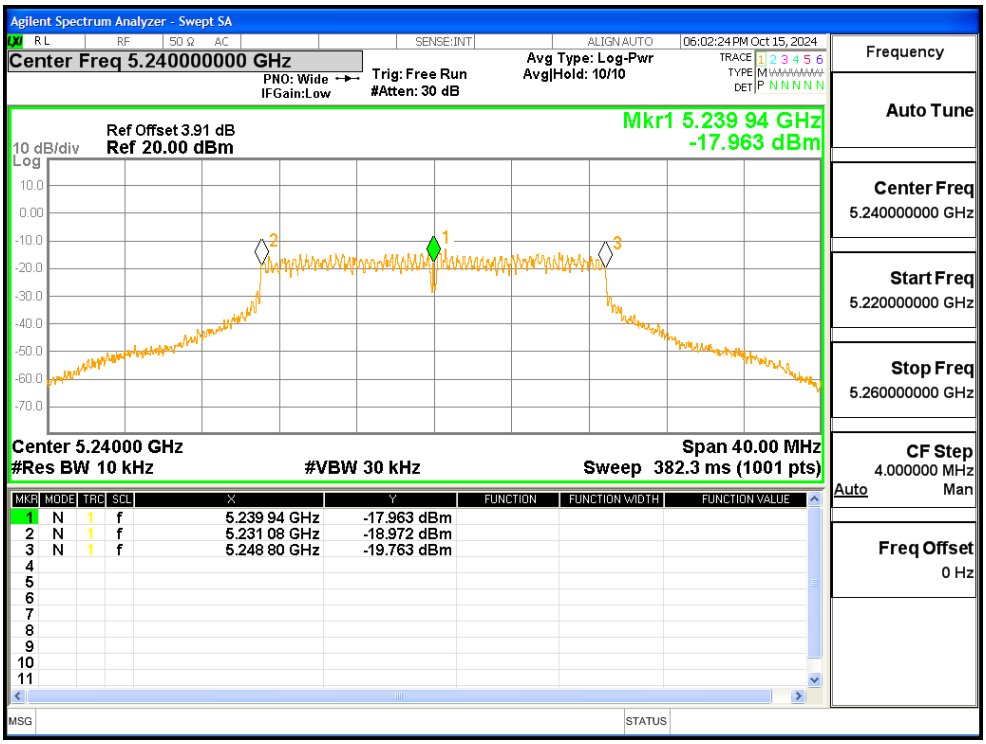
Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



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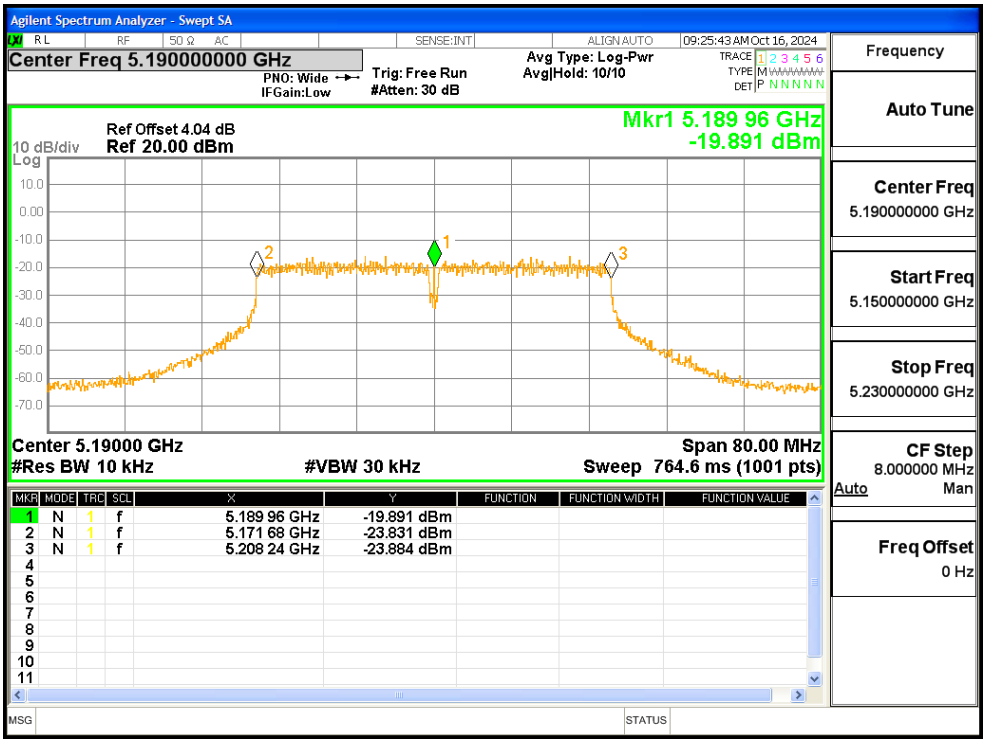
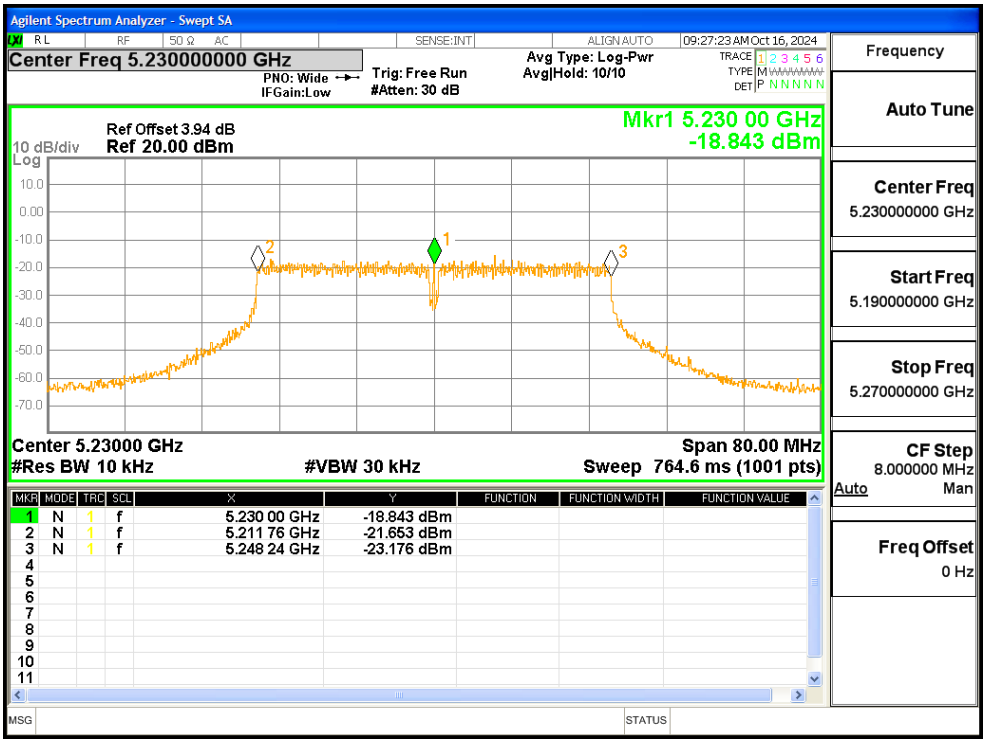
Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



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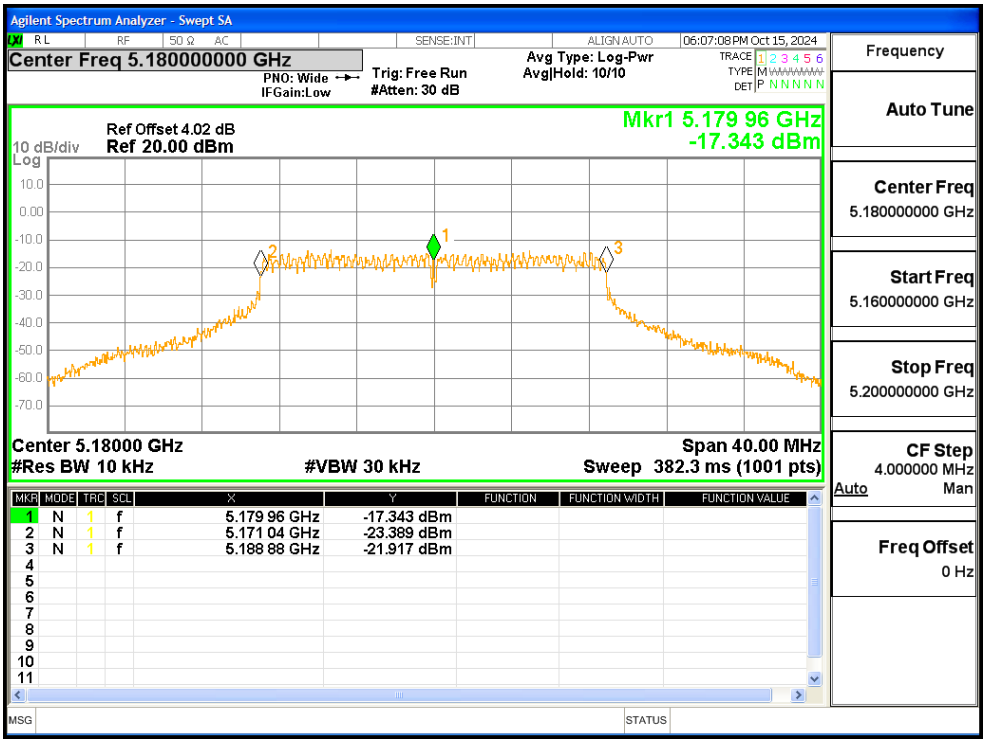
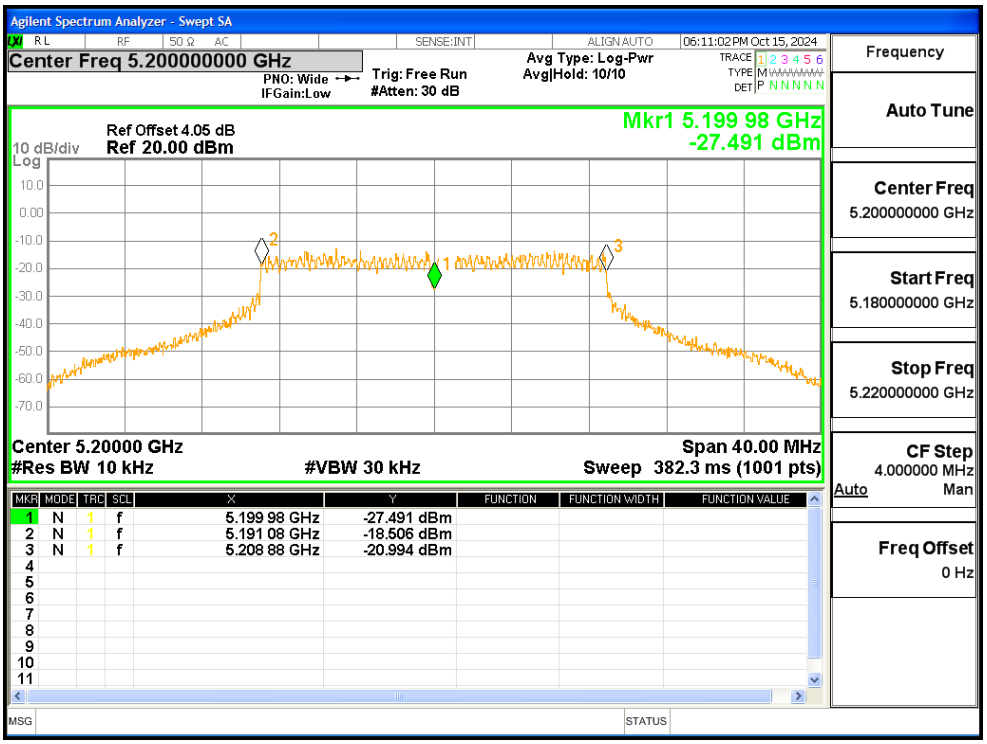
Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 5200MHz Ant1



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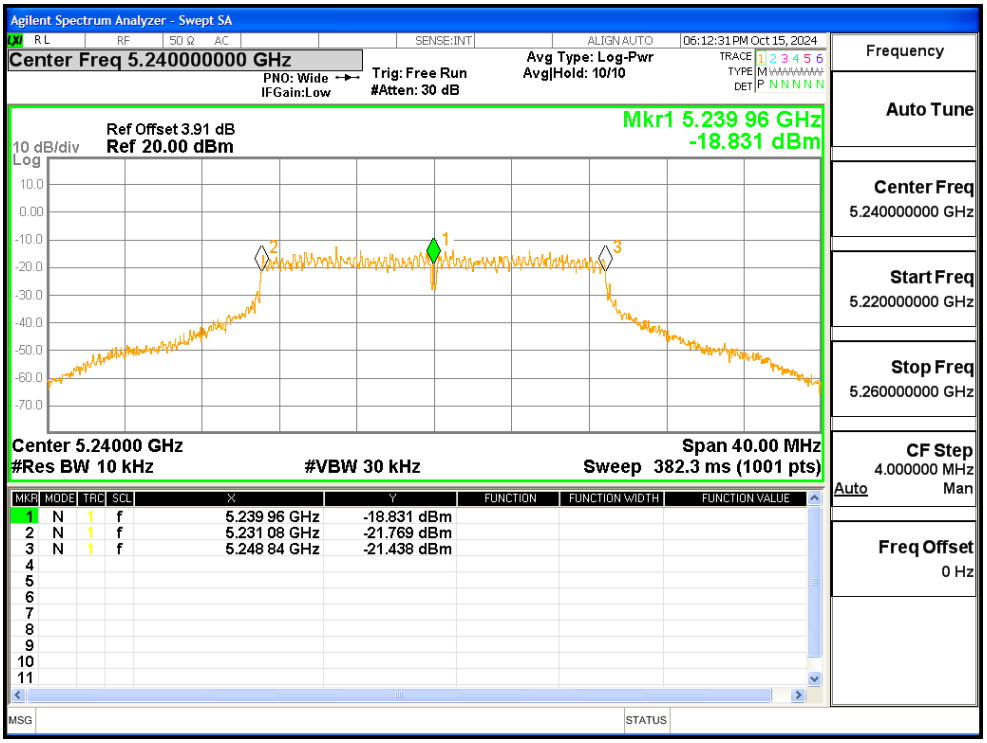
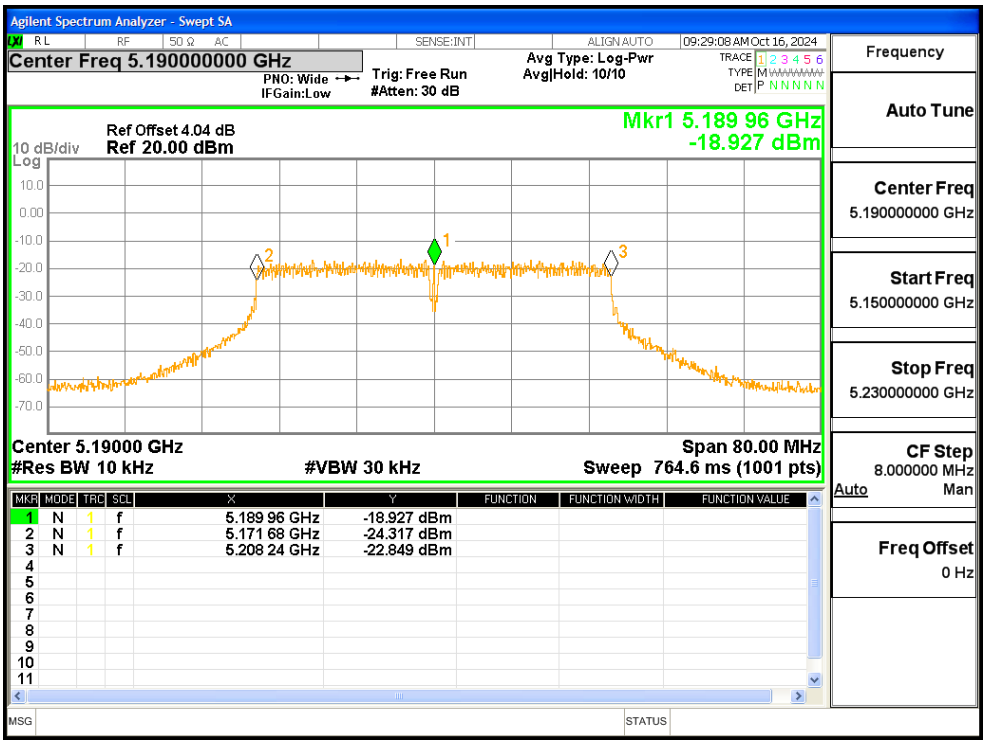
Freq. Stability NVNT ac20 5240MHz Ant1



Freq. Stability NVNT ac40 5190MHz Ant1



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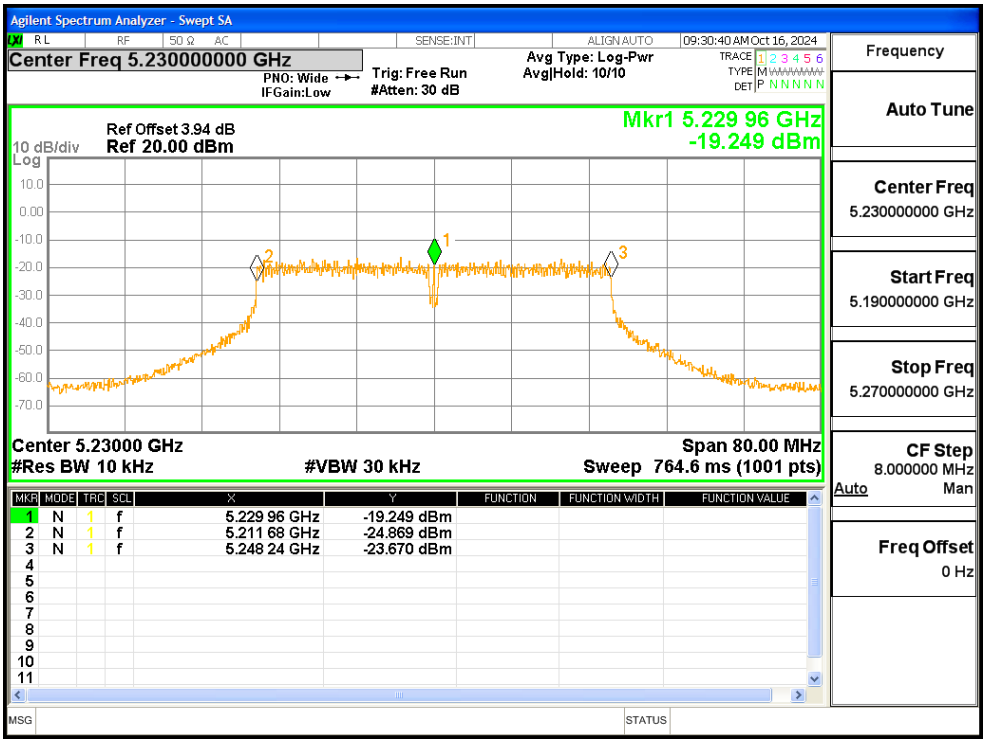
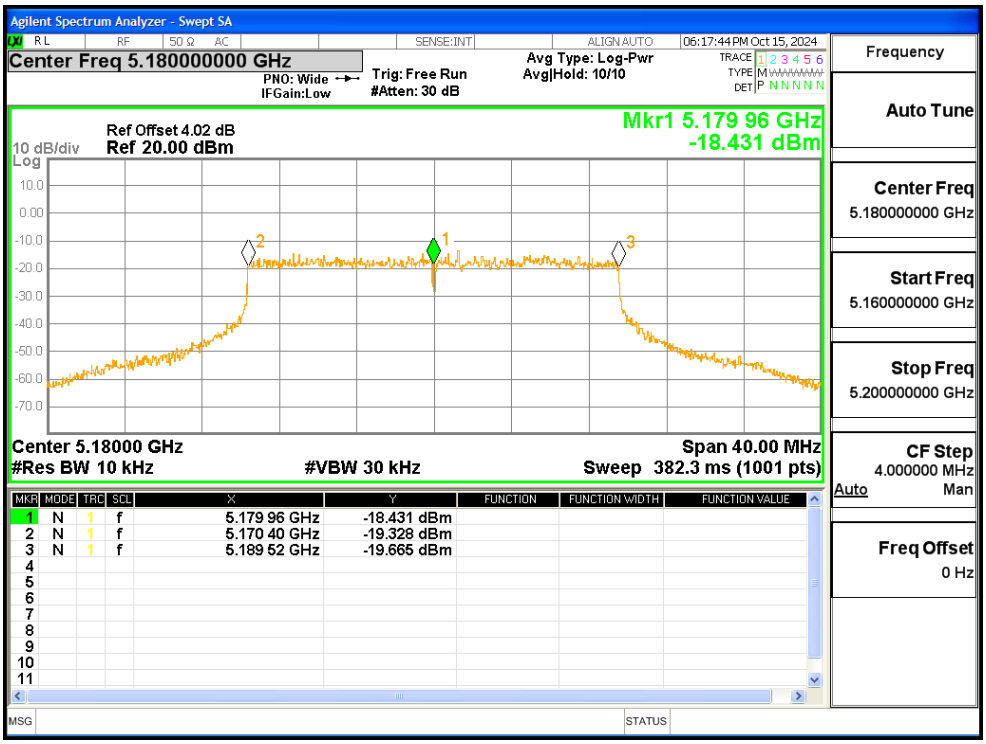
Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ax20 5180MHz Ant1



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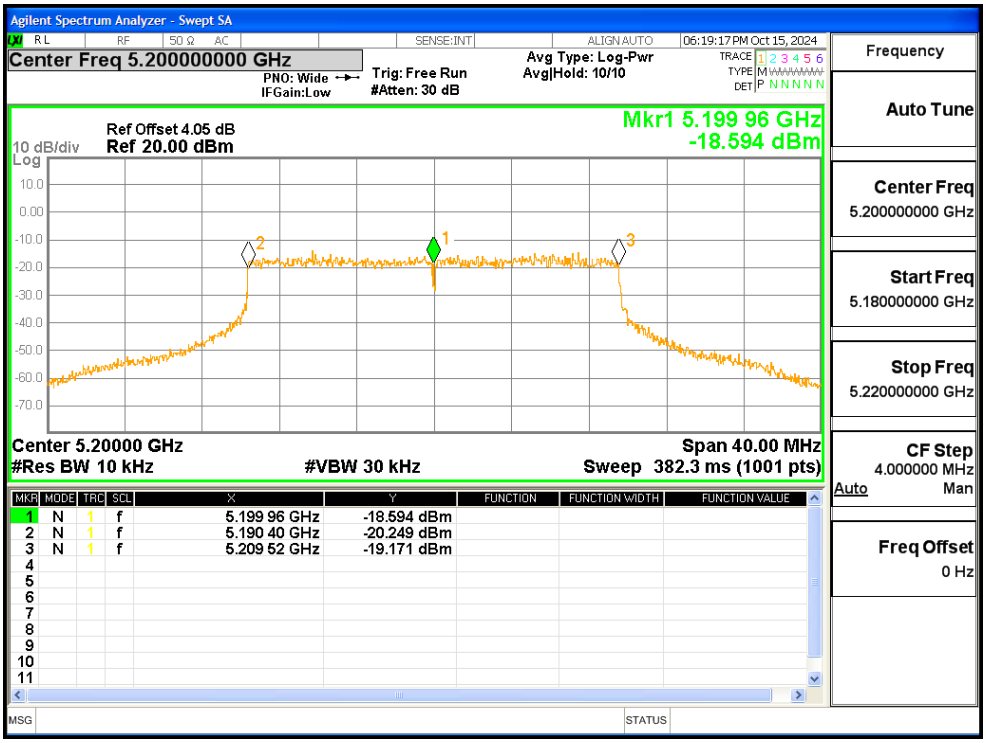
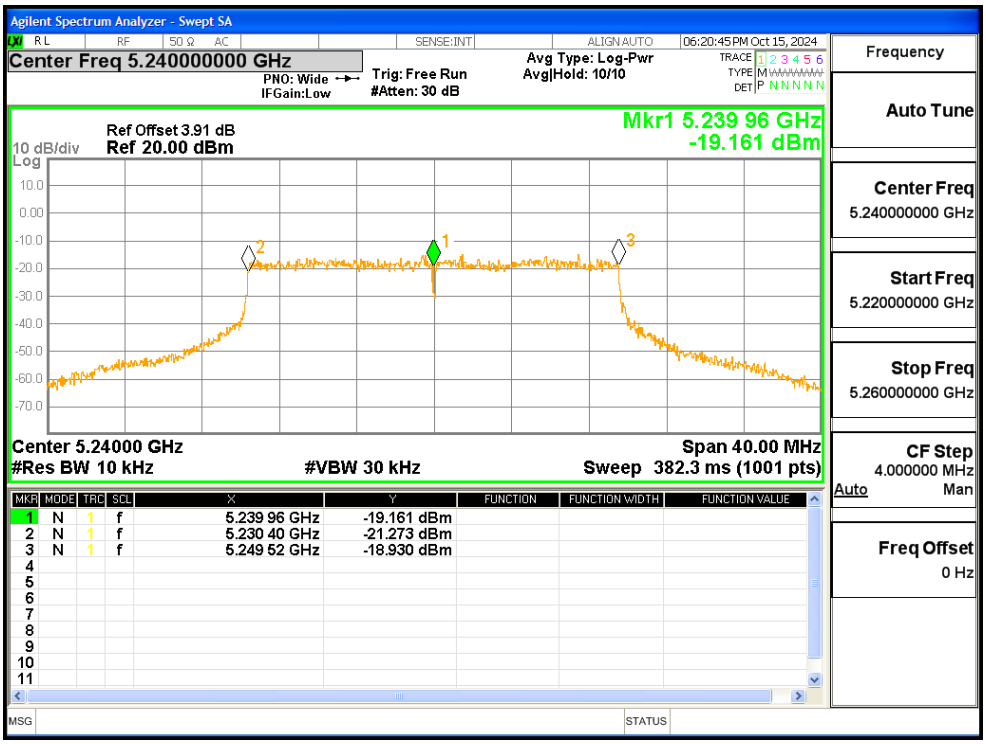
Freq. Stability NVNT ax20 5200MHz Ant1



Freq. Stability NVNT ax20 5240MHz Ant1



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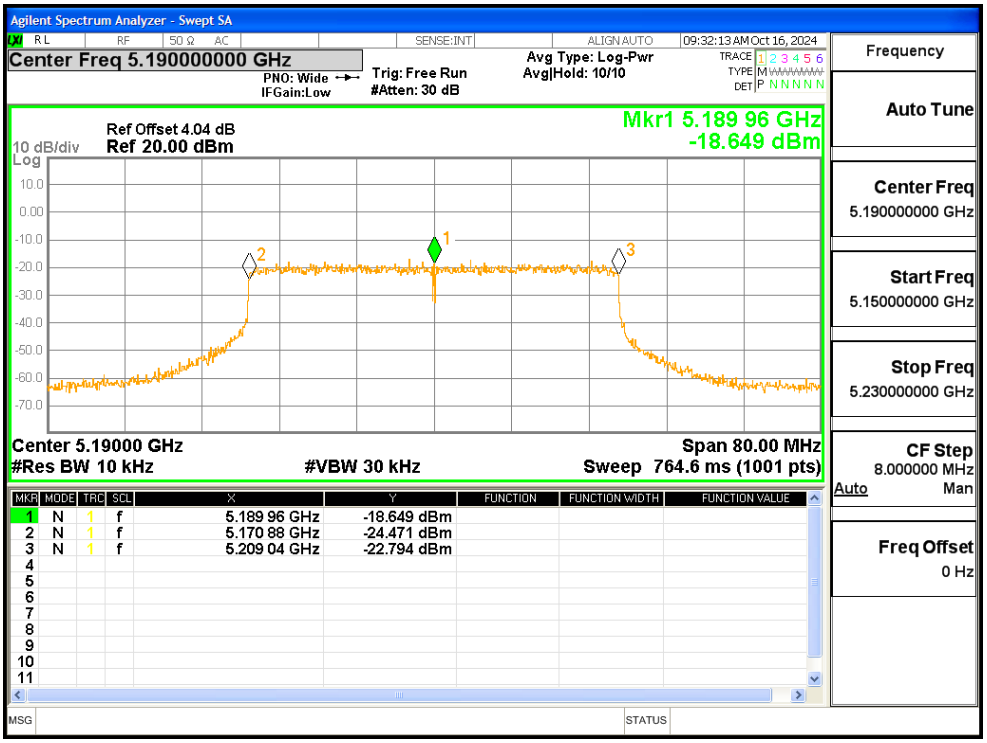
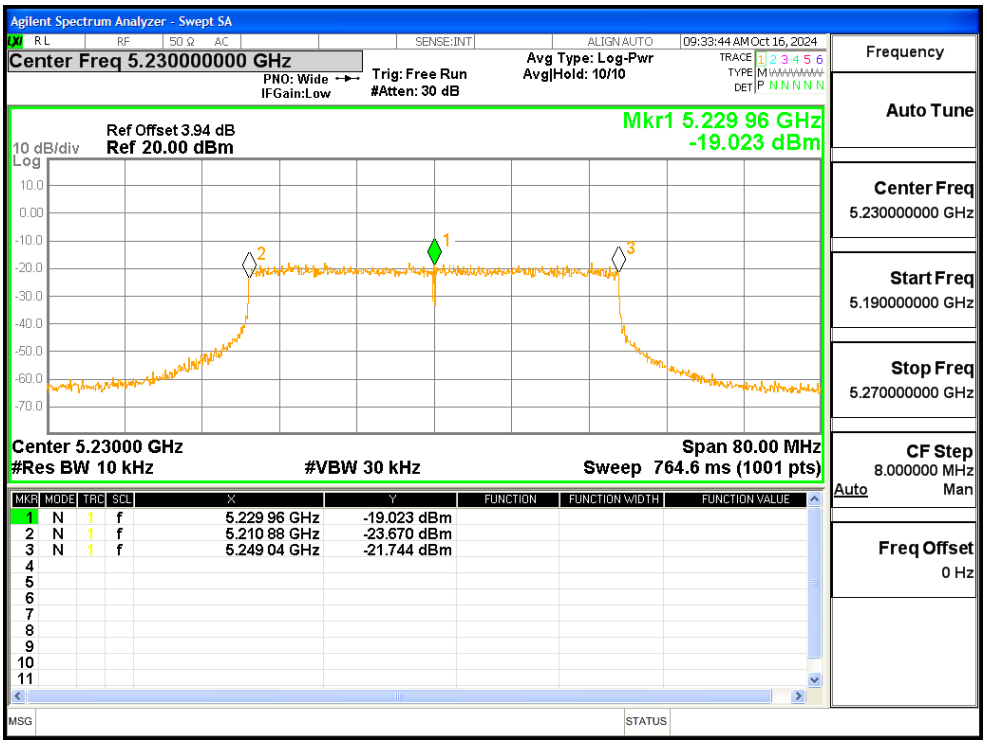
Freq. Stability NVNT ax40 5190MHz Ant1



Freq. Stability NVNT ax40 5230MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.98	-20000	-3.48	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	n20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.94	-60000	-10.37	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	n40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ac20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.98	-20000	-3.46	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	ac40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass
	ax20	5745		5744.96	-40000	-6.96	25	Pass
		5785		5784.96	-40000	-6.91	25	Pass
		5825		5824.96	-40000	-6.87	25	Pass
	ax40	5755		5754.96	-40000	-6.95	25	Pass
		5795		5794.96	-40000	-6.9	25	Pass

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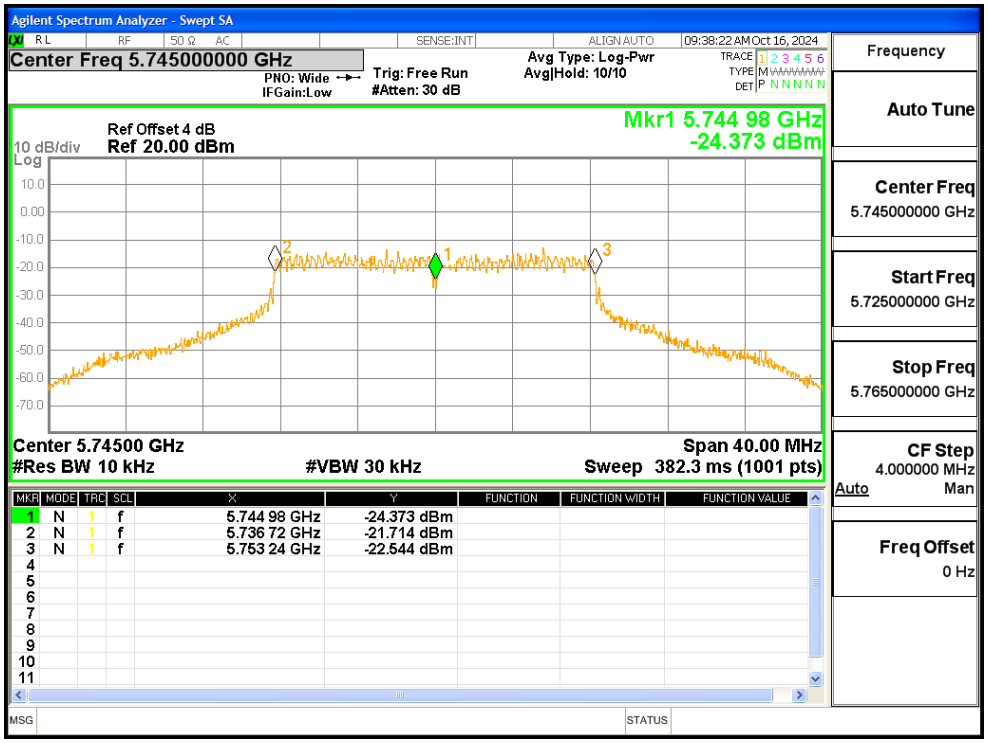
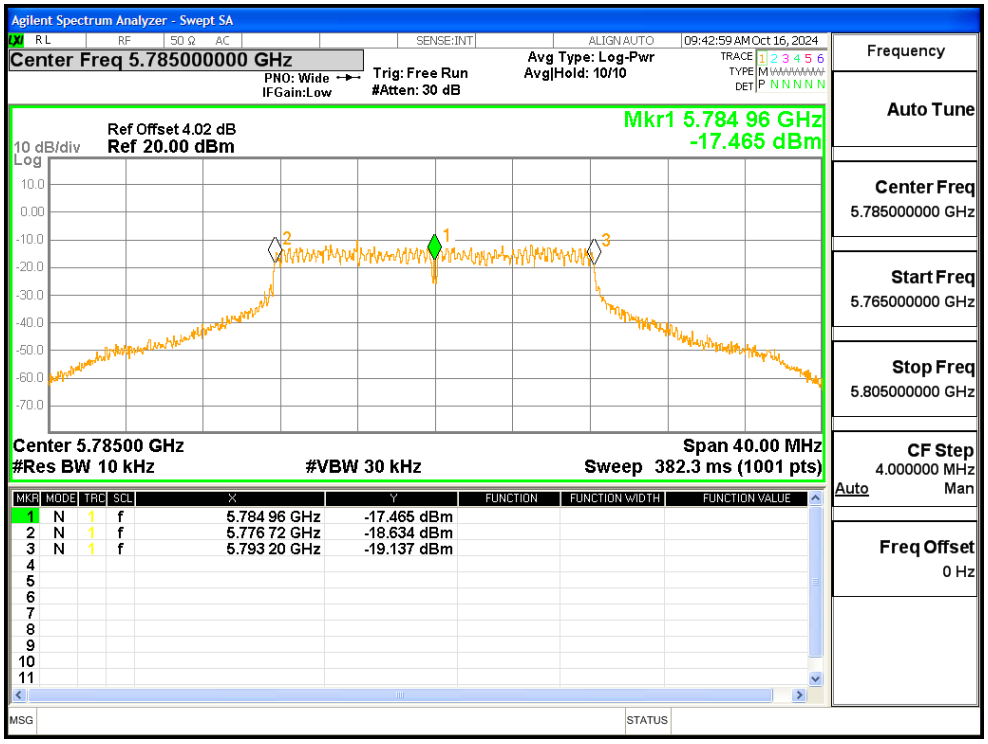
Test Graphs

Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability NVNT a 5785MHz Ant1



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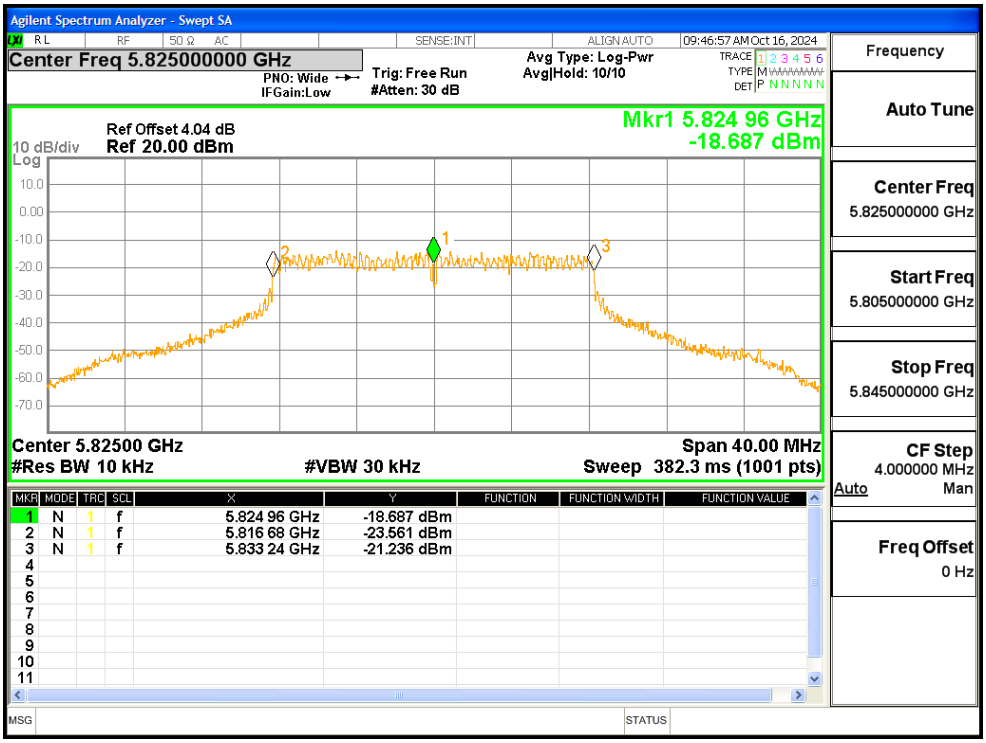
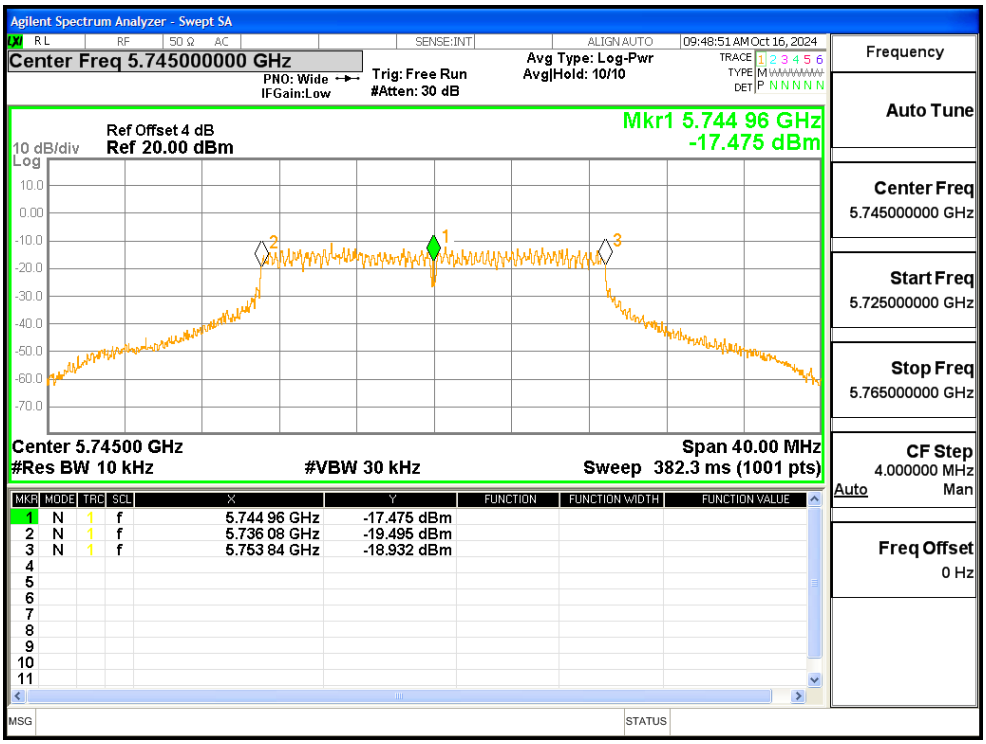
Freq. Stability NVNT a 5825MHz Ant1



Freq. Stability NVNT n20 5745MHz Ant1



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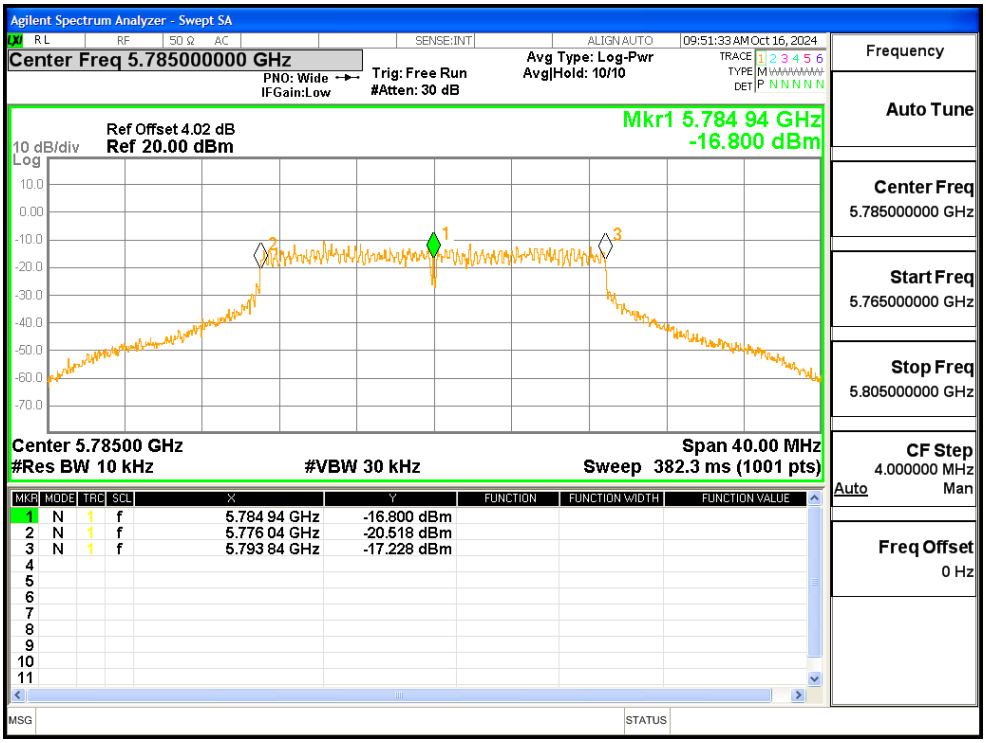
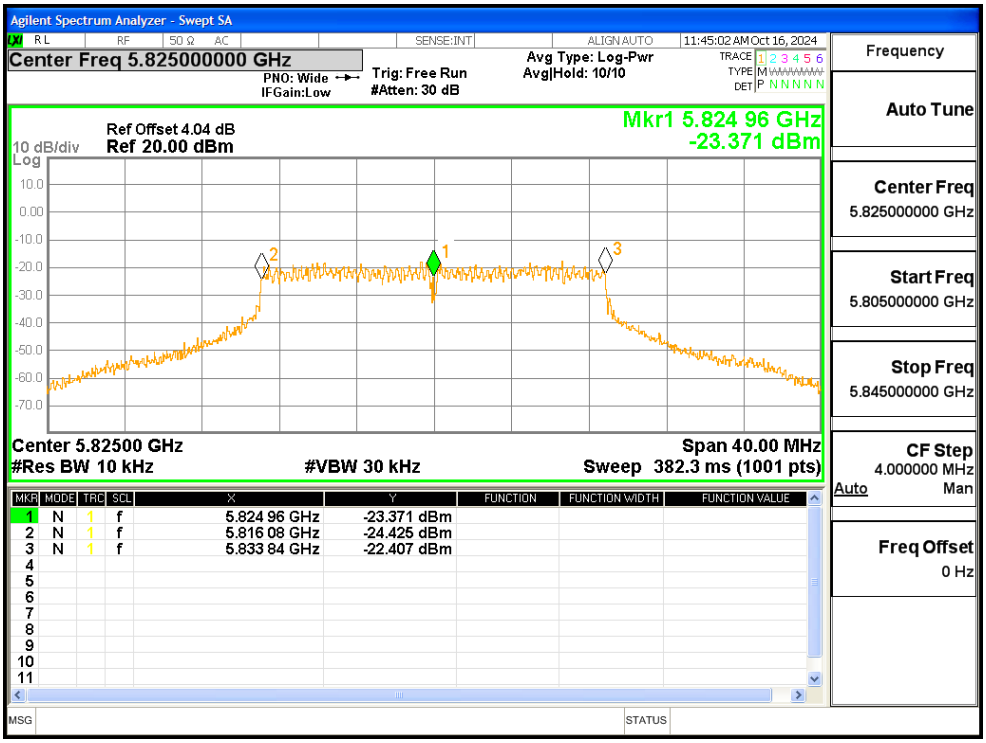
Freq. Stability NVNT n20 5785MHz Ant1



Freq. Stability NVNT n20 5825MHz Ant1



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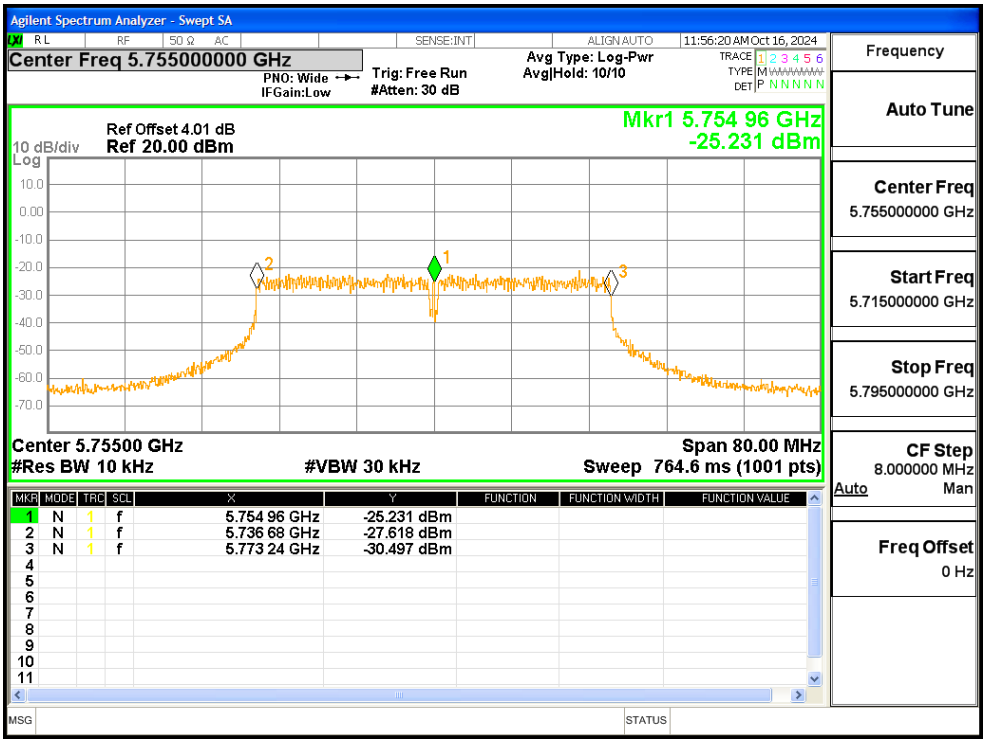
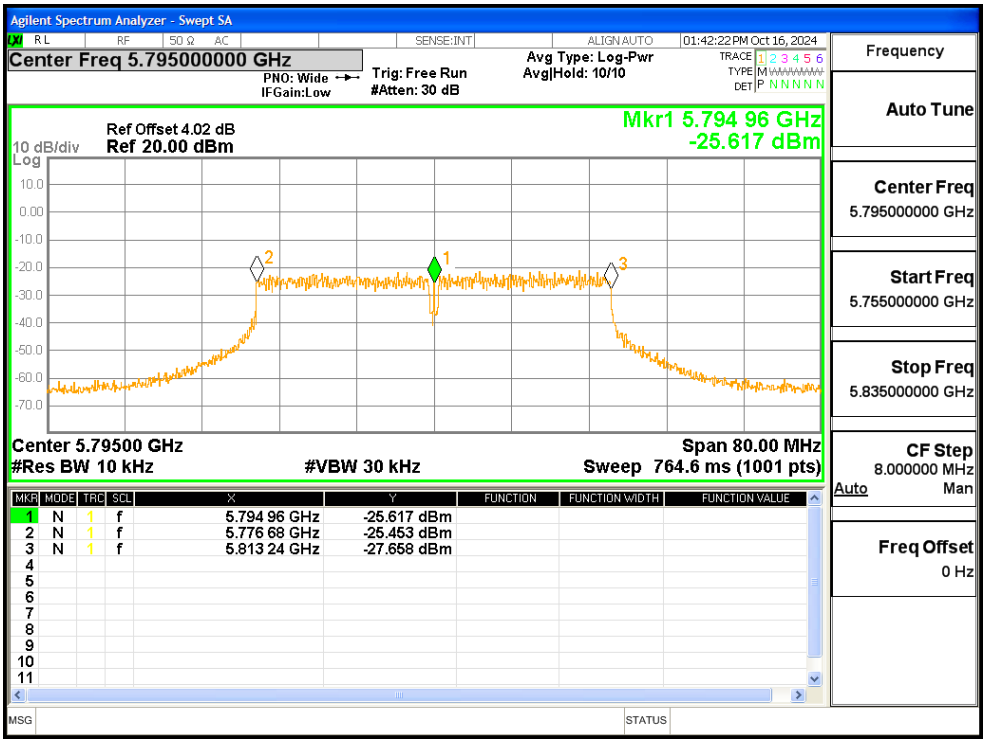
Freq. Stability NVNT n40 5755MHz Ant1



Freq. Stability NVNT n40 5795MHz Ant1



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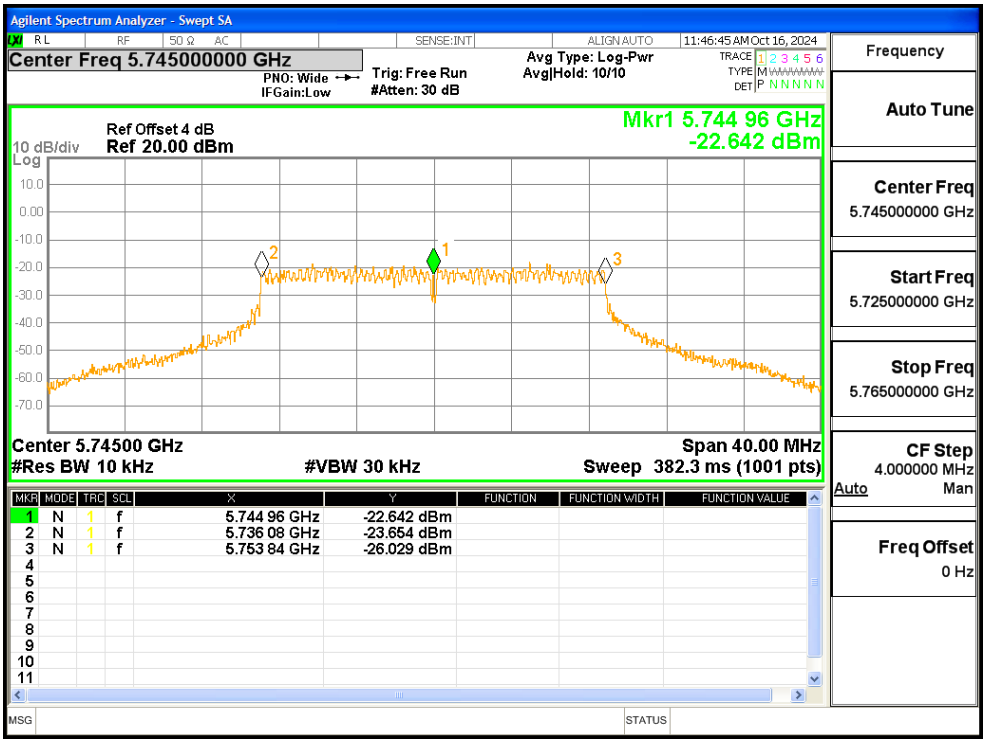
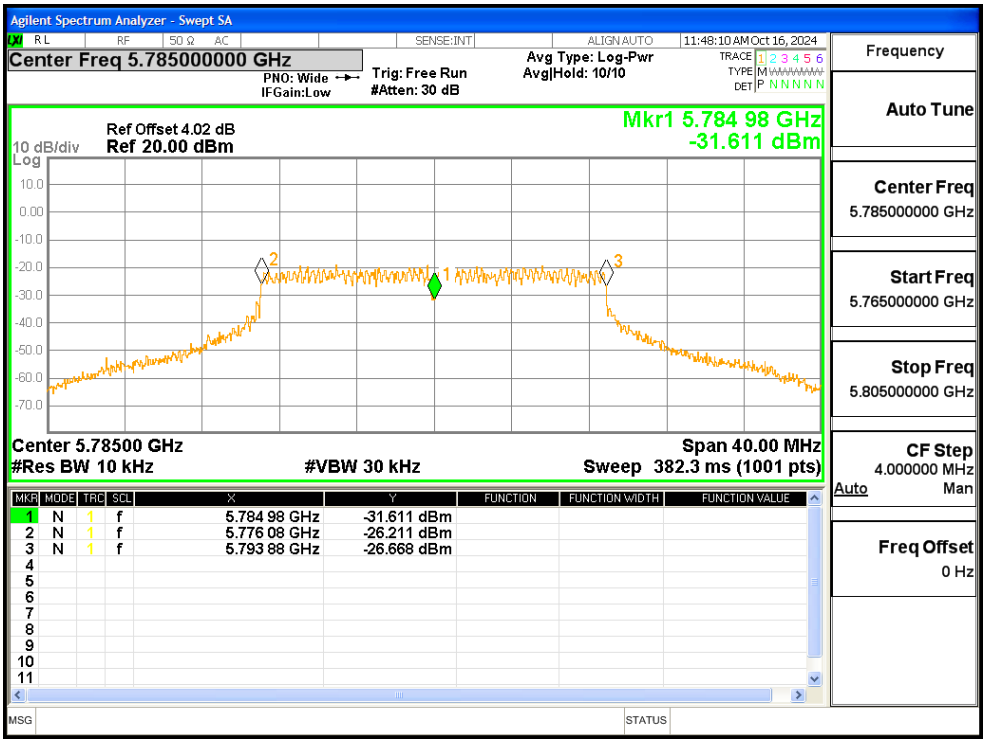
Freq. Stability NVNT ac20 5745MHz Ant1



Freq. Stability NVNT ac20 5785MHz Ant1



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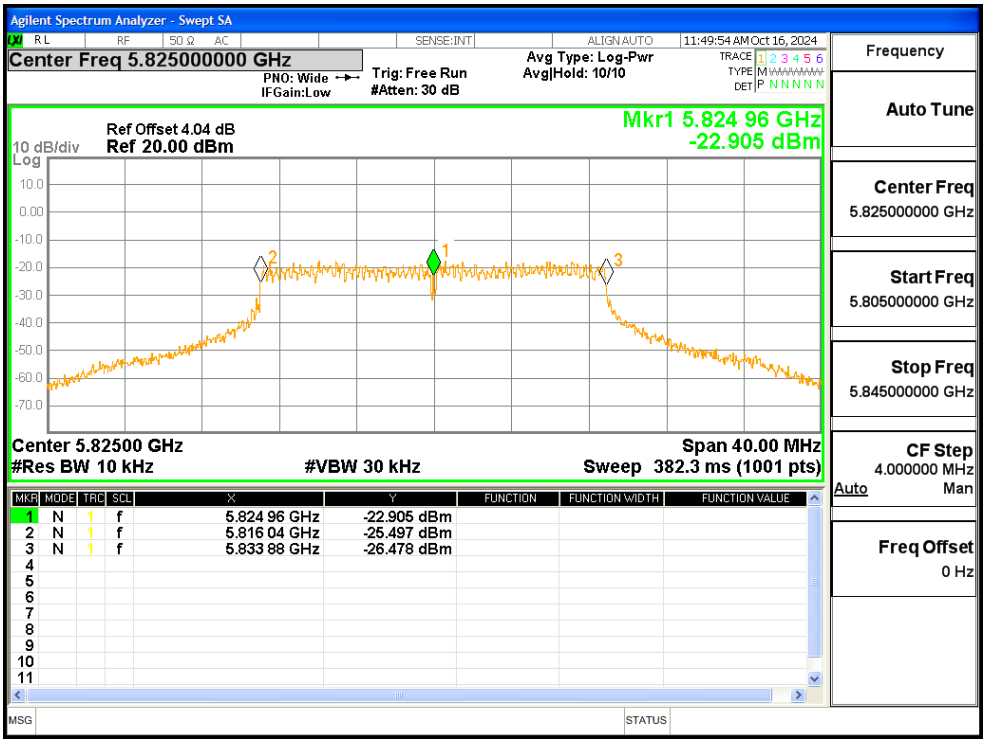
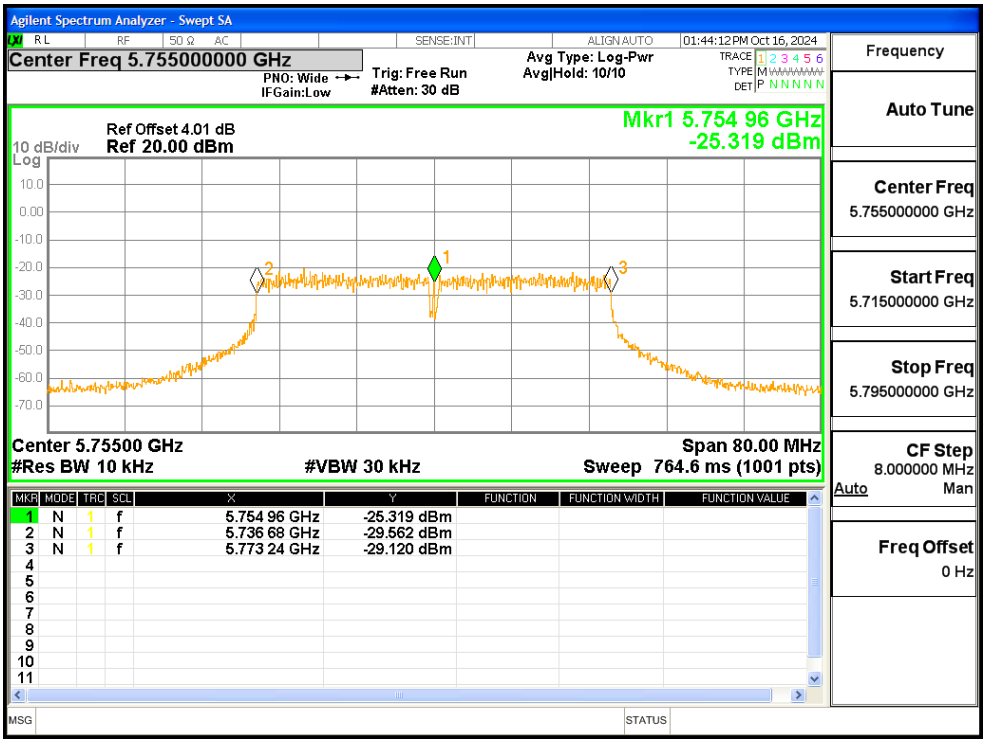
Freq. Stability NVNT ac20 5825MHz Ant1



Freq. Stability NVNT ac40 5755MHz Ant1



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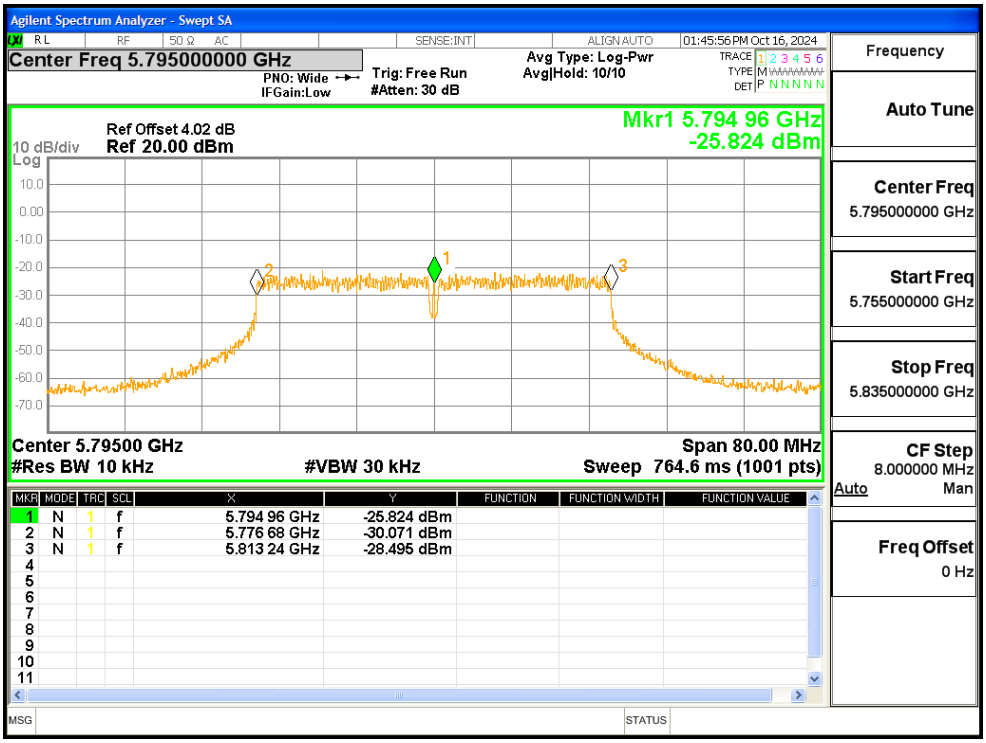
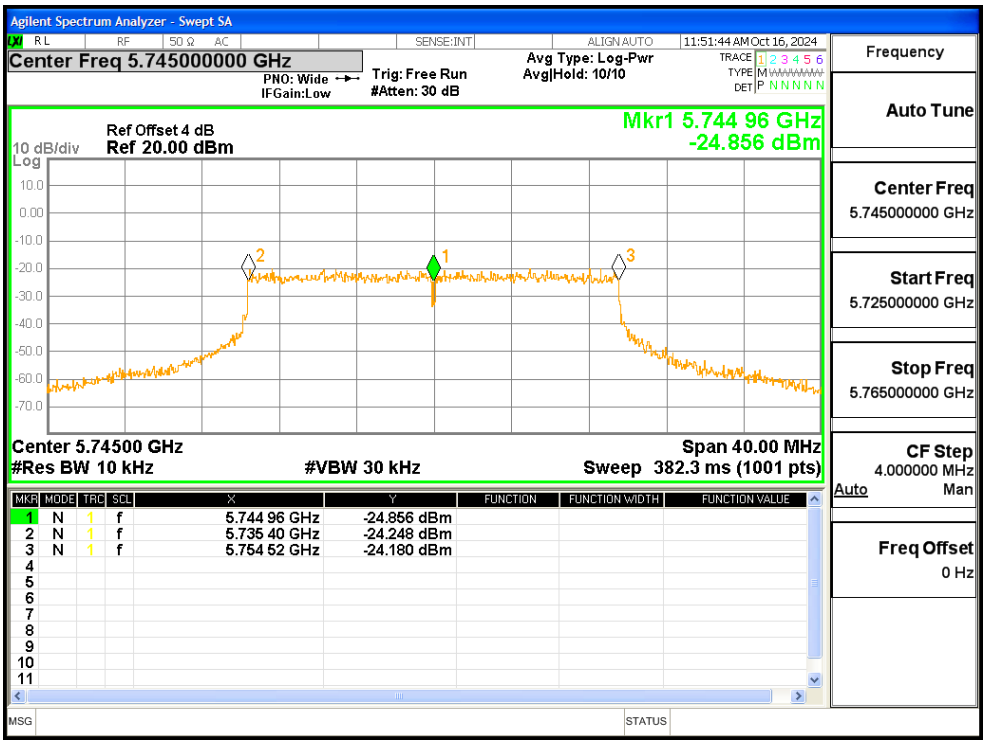
Freq. Stability NVNT ac40 5795MHz Ant1



Freq. Stability NVNT ax20 5745MHz Ant1



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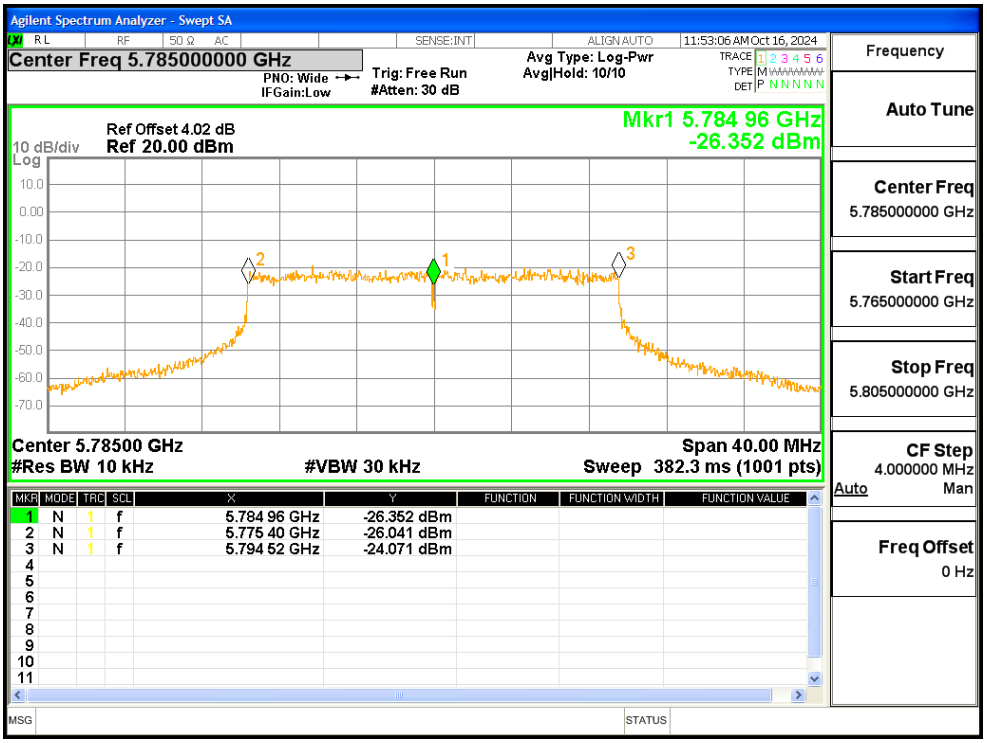
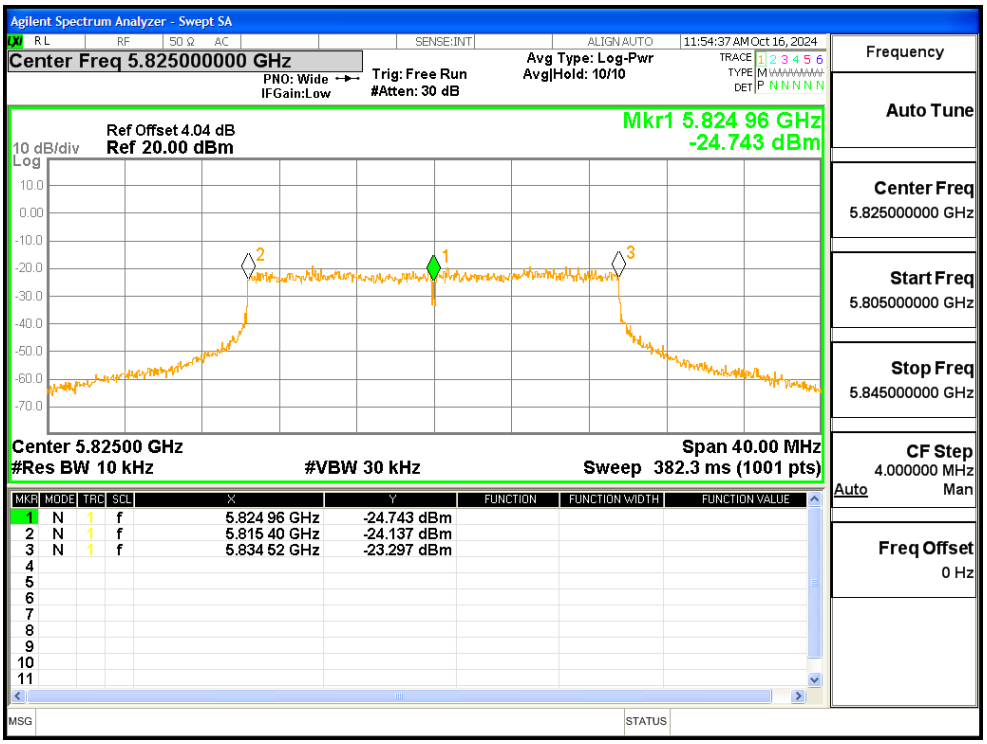
Freq. Stability NVNT ax20 5785MHz Ant1



Freq. Stability NVNT ax20 5825MHz Ant1



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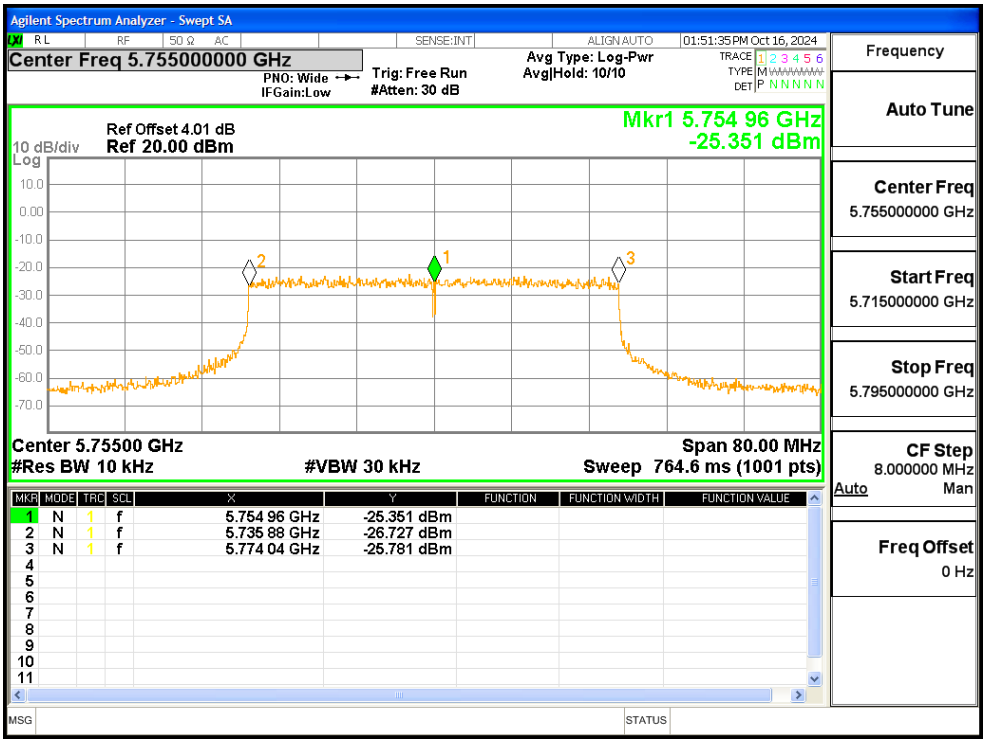
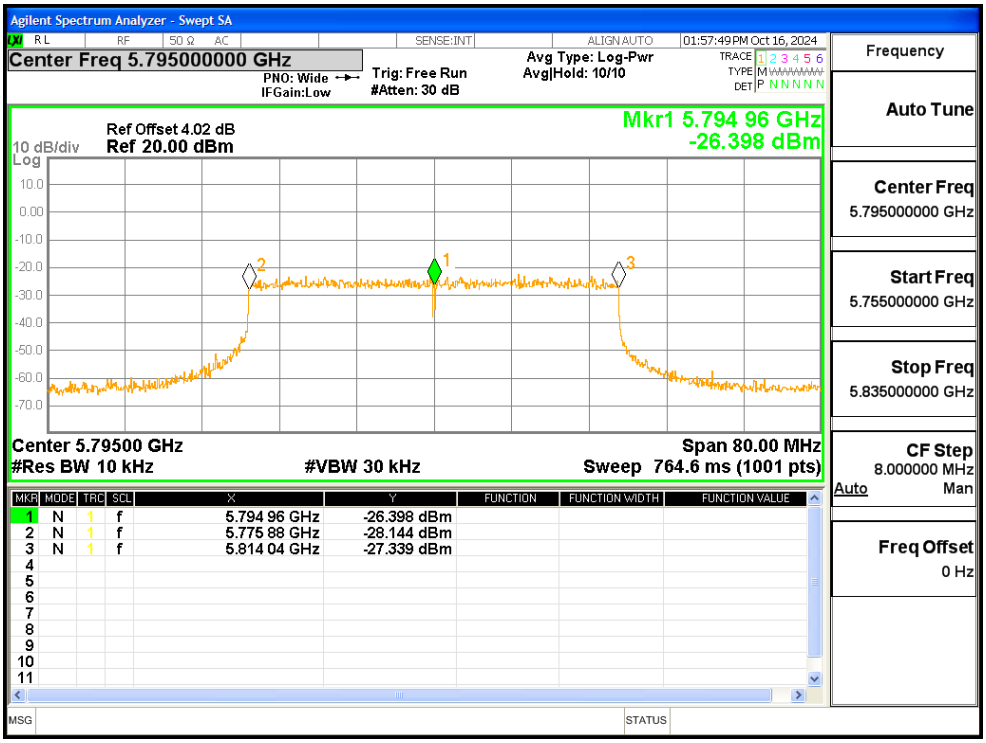
Freq. Stability NVNT ax40 5755MHz Ant1



Freq. Stability NVNT ax40 5795MHz Ant1



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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

FPC antenna used. The gain of the antennas is 2.49dBi maximum. (Get from the antenna specification provided the applicant)

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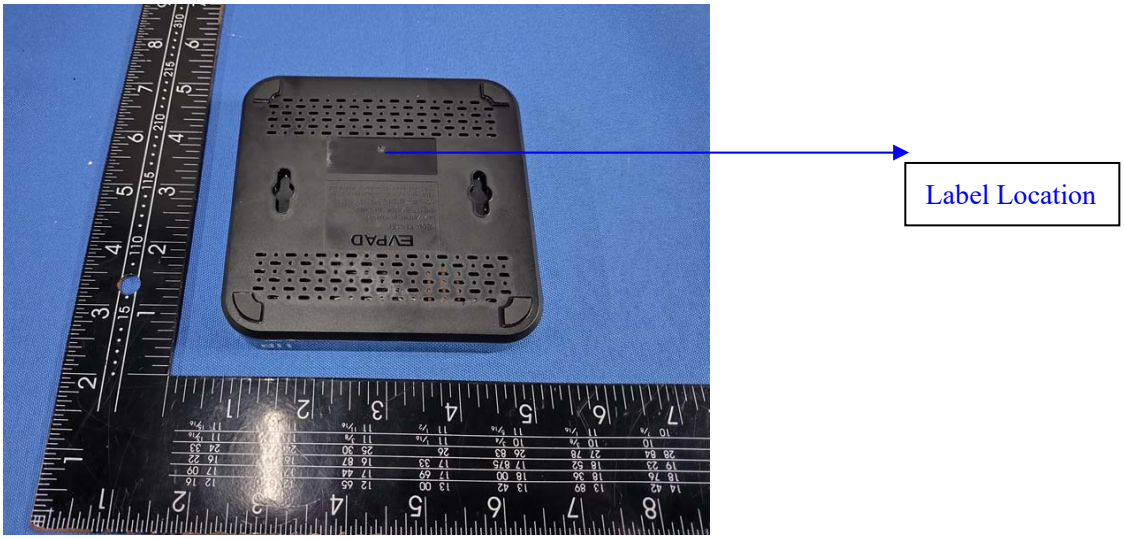
12.0 FCC ID Label

FCC ID: 2A4G810P10P

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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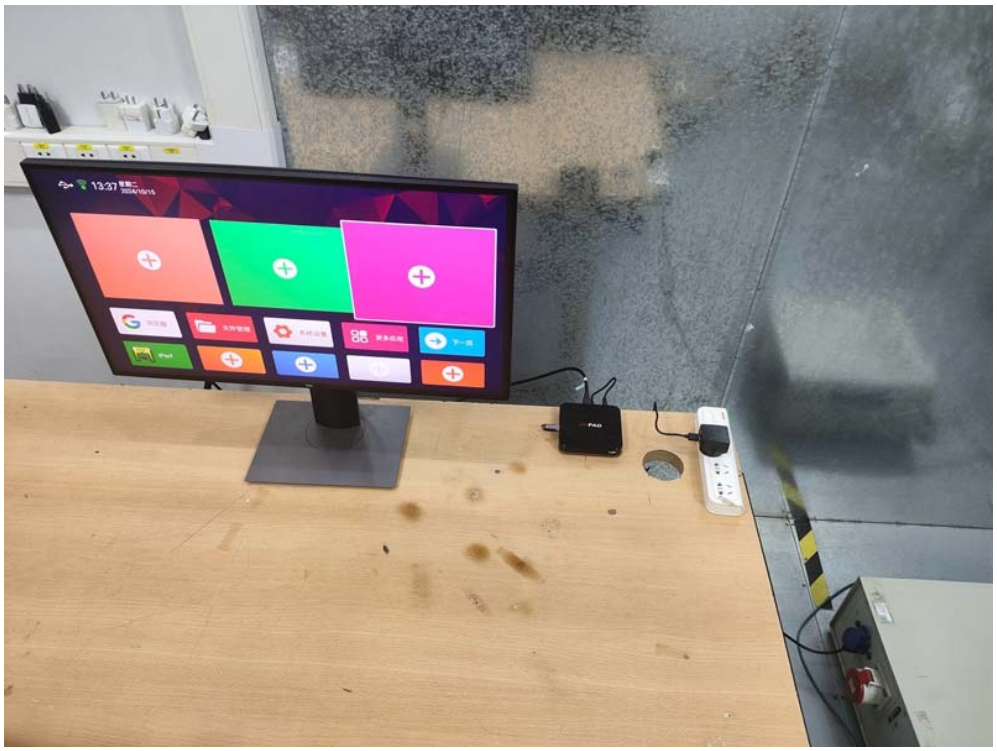
13.0 Photo of testing

Conducted Emission Test Setup:



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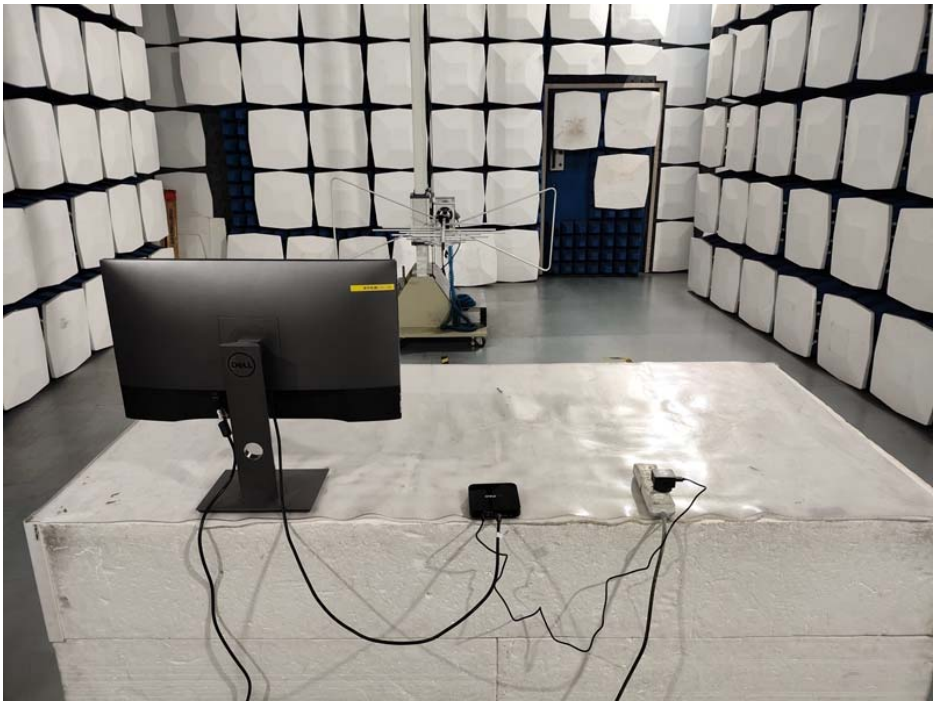
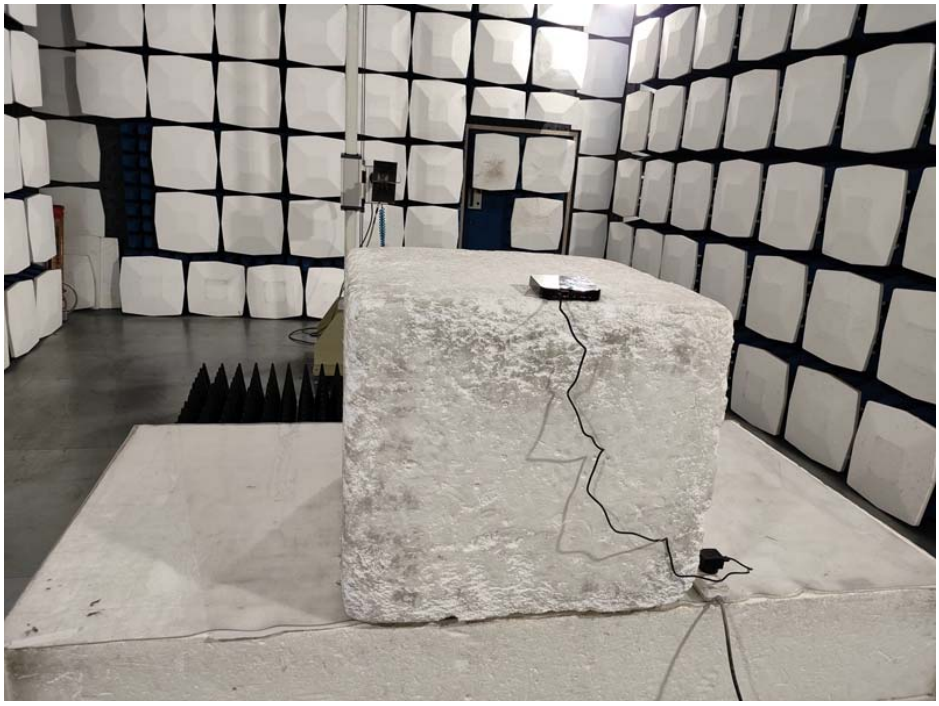
Radiated Emission Test Setup





Photos of EUT

Please see test report TW2410053-01E

--End of the report--

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