



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Ambient Monitoring Sensor

Test Model: AMS-R20-C

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	25.148	---	Pass
NVNT	a	5200	Ant1	23.677	---	Pass
NVNT	a	5240	Ant1	24.221	---	Pass
NVNT	n20	5180	Ant1	23.941	---	Pass
NVNT	n20	5200	Ant1	28.978	---	Pass
NVNT	n20	5240	Ant1	24.358	---	Pass
NVNT	n40	5190	Ant1	46.172	---	Pass
NVNT	n40	5230	Ant1	39.314	---	Pass
NVNT	ac20	5180	Ant1	25.606	---	Pass
NVNT	ac20	5200	Ant1	25.195	---	Pass
NVNT	ac20	5240	Ant1	27.122	---	Pass
NVNT	ac40	5190	Ant1	43.536	---	Pass
NVNT	ac40	5230	Ant1	39.553	---	Pass
NVNT	ac80	5210	Ant1	82.094	---	Pass

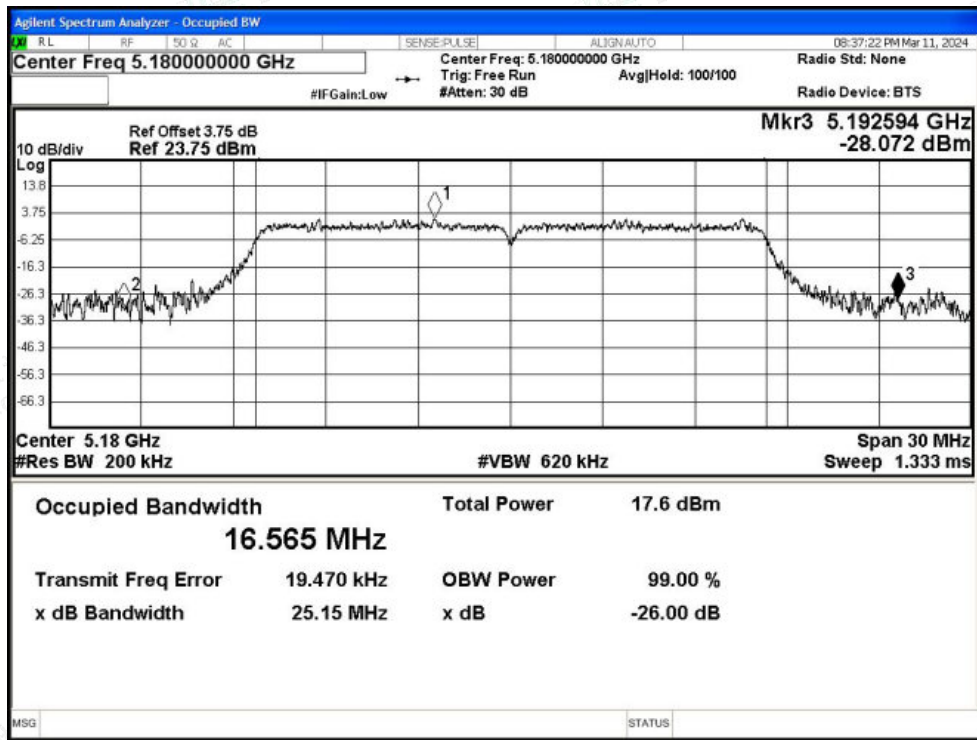


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 Scan code to check authenticity

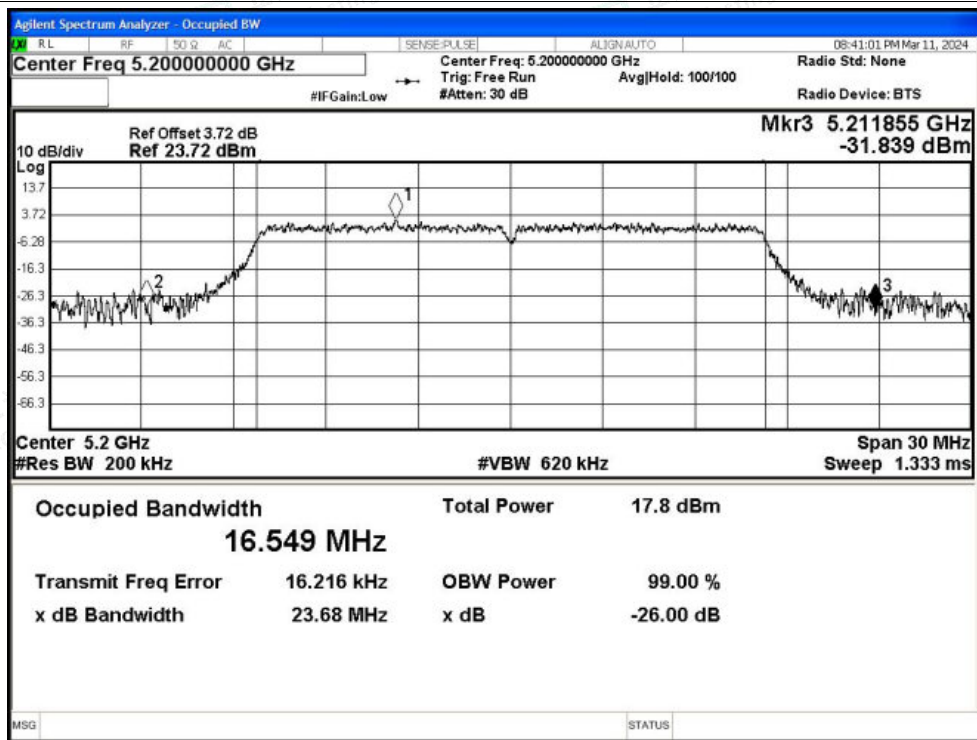


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

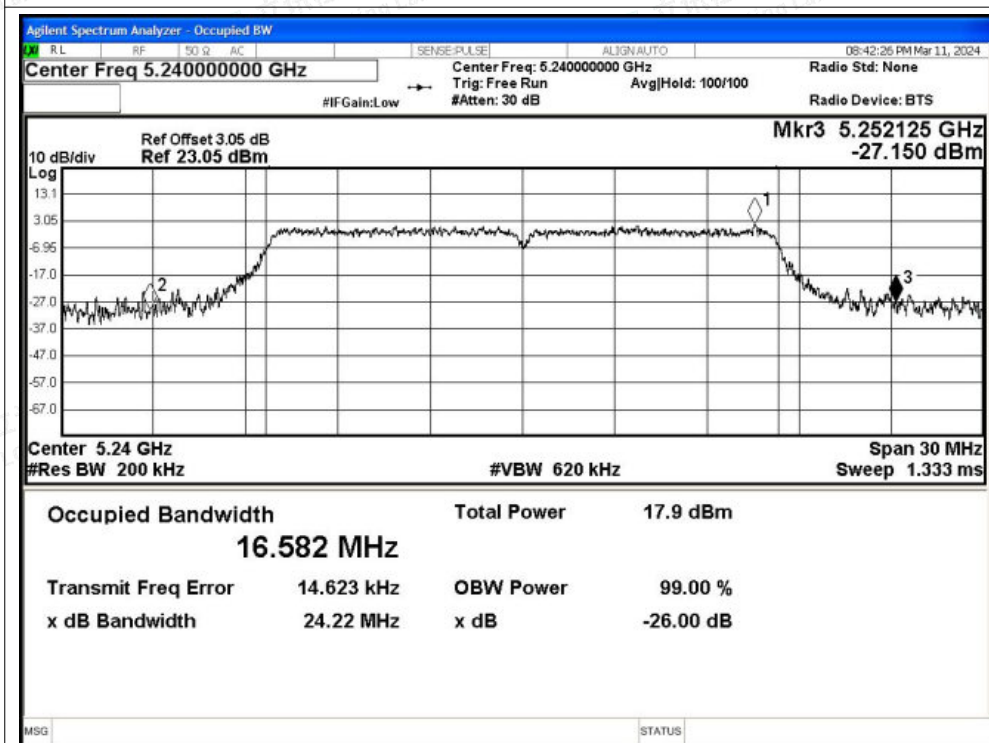


-26dB Bandwidth NVNT a 5200MHz Ant1

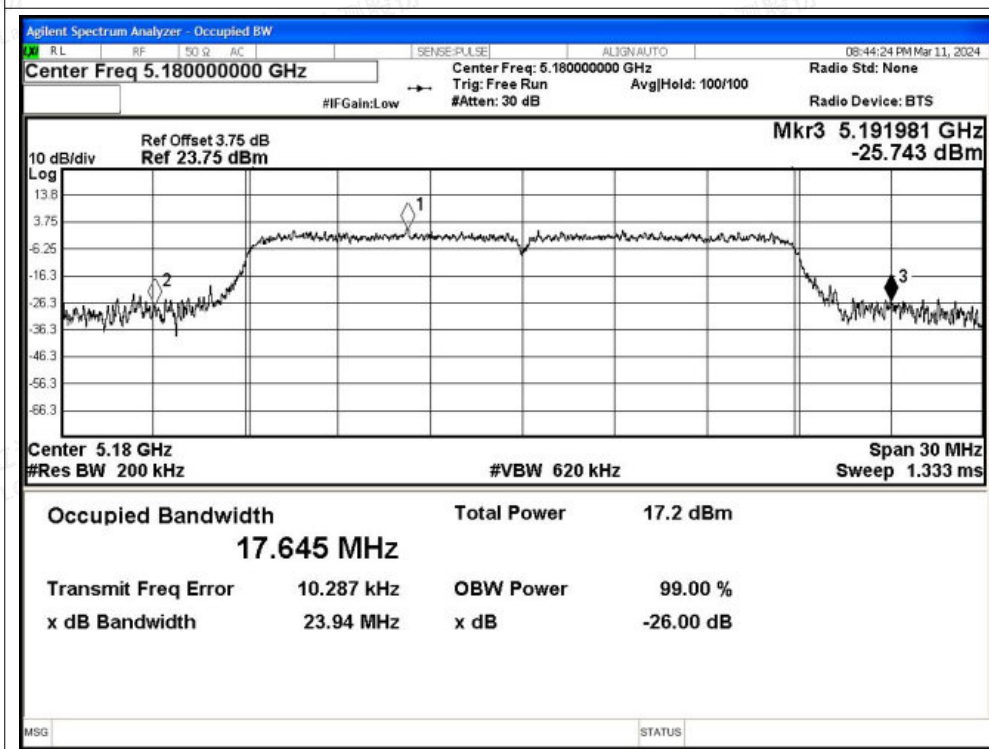




-26dB Bandwidth NVNT a 5240MHz Ant1

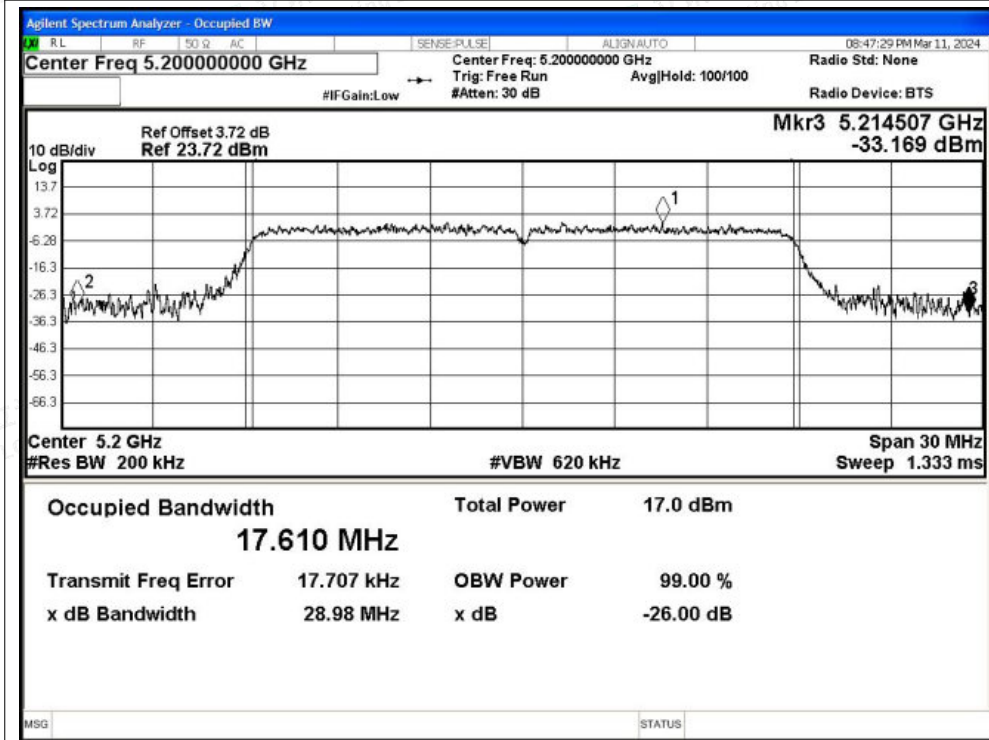


-26dB Bandwidth NVNT n20 5180MHz Ant1

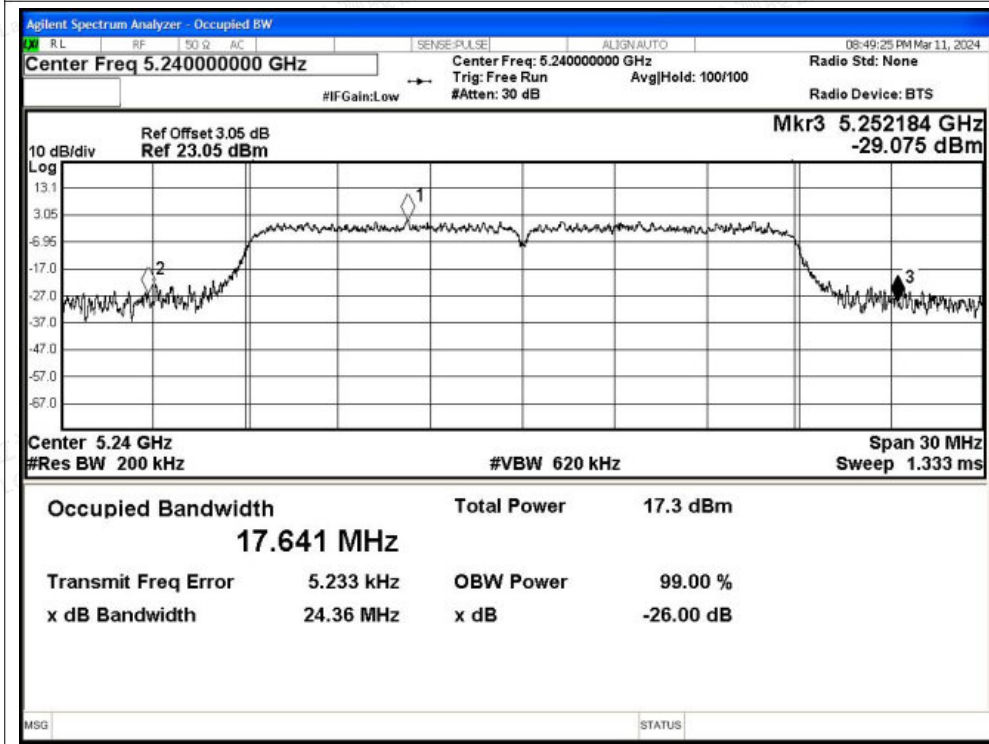




-26dB Bandwidth NVNT n20 5200MHz Ant1

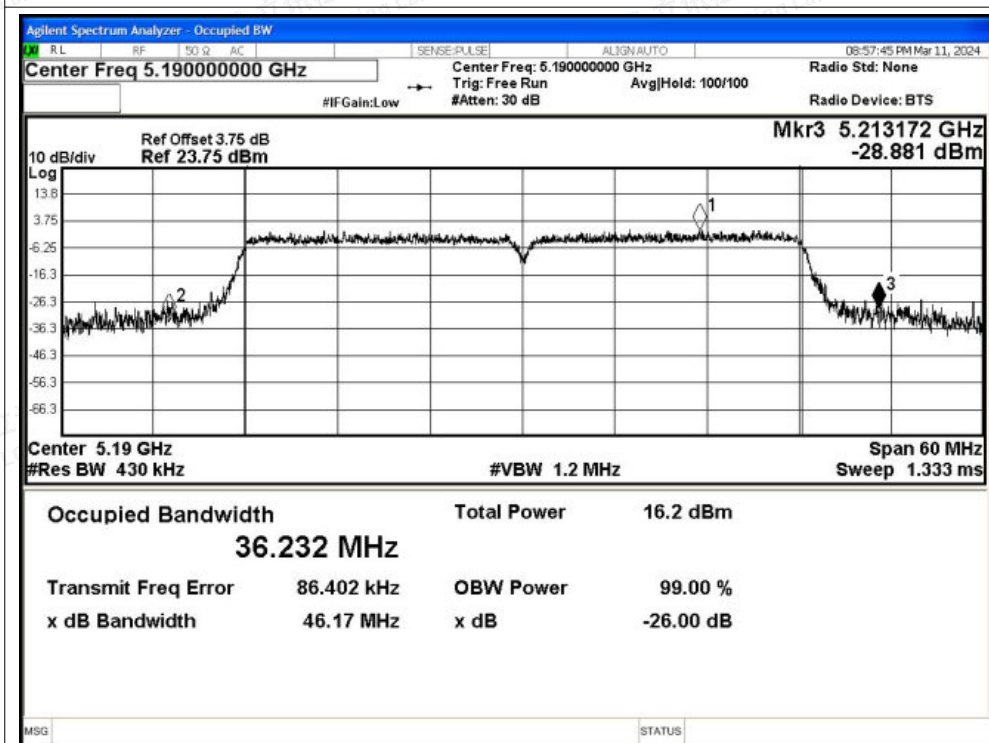


-26dB Bandwidth NVNT n20 5240MHz Ant1

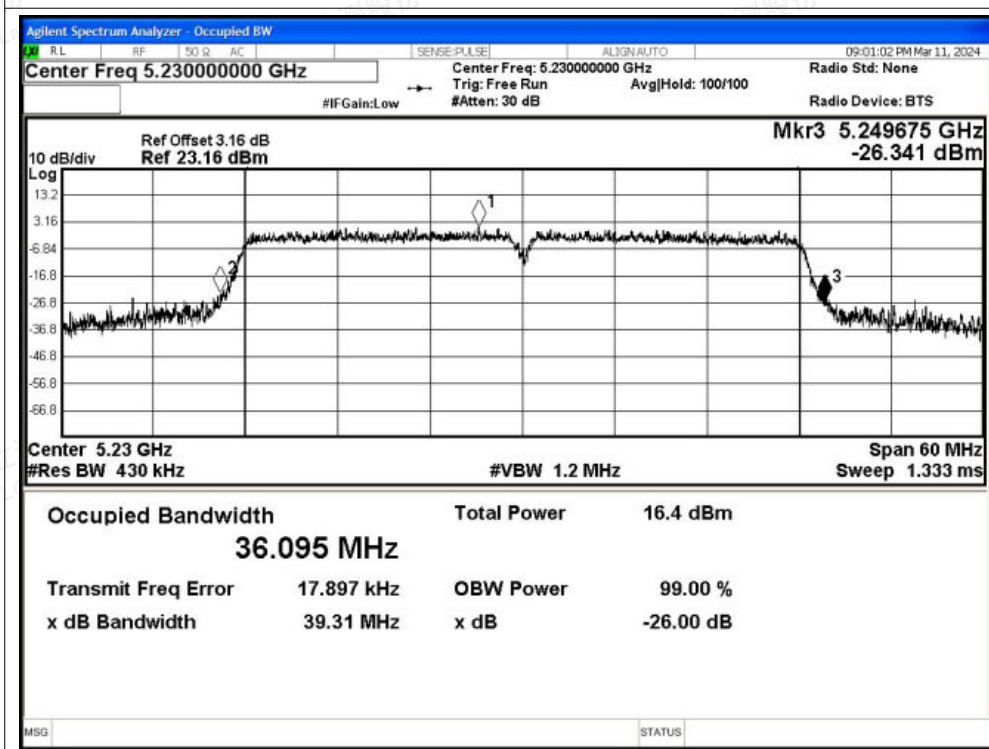




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

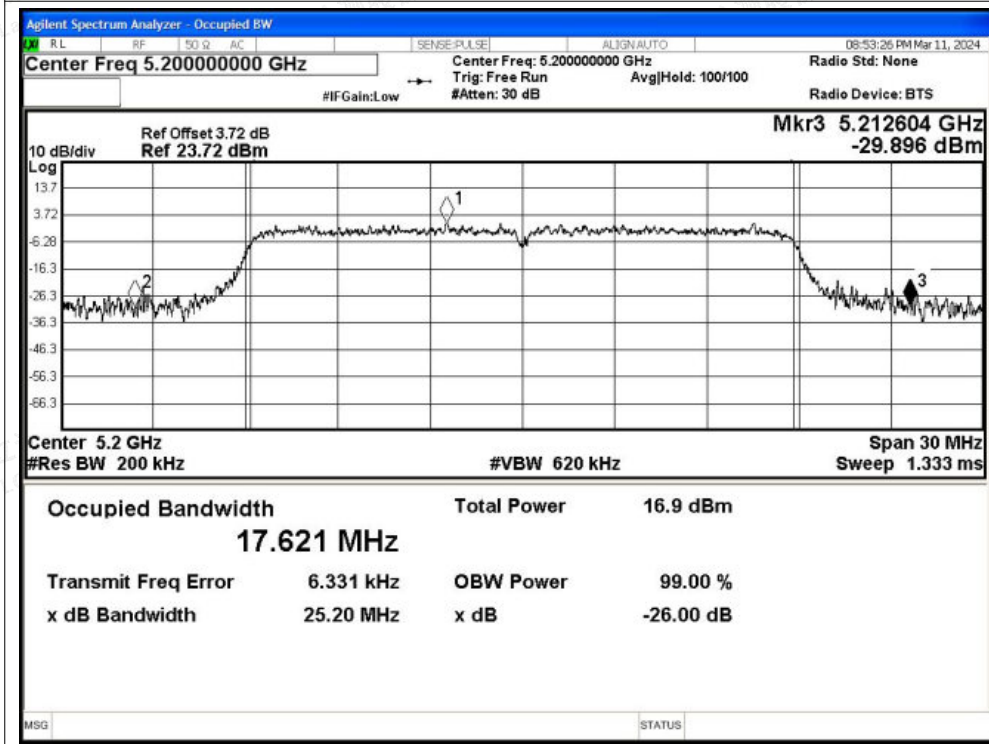




-26dB Bandwidth NVNT ac20 5180MHz Ant1

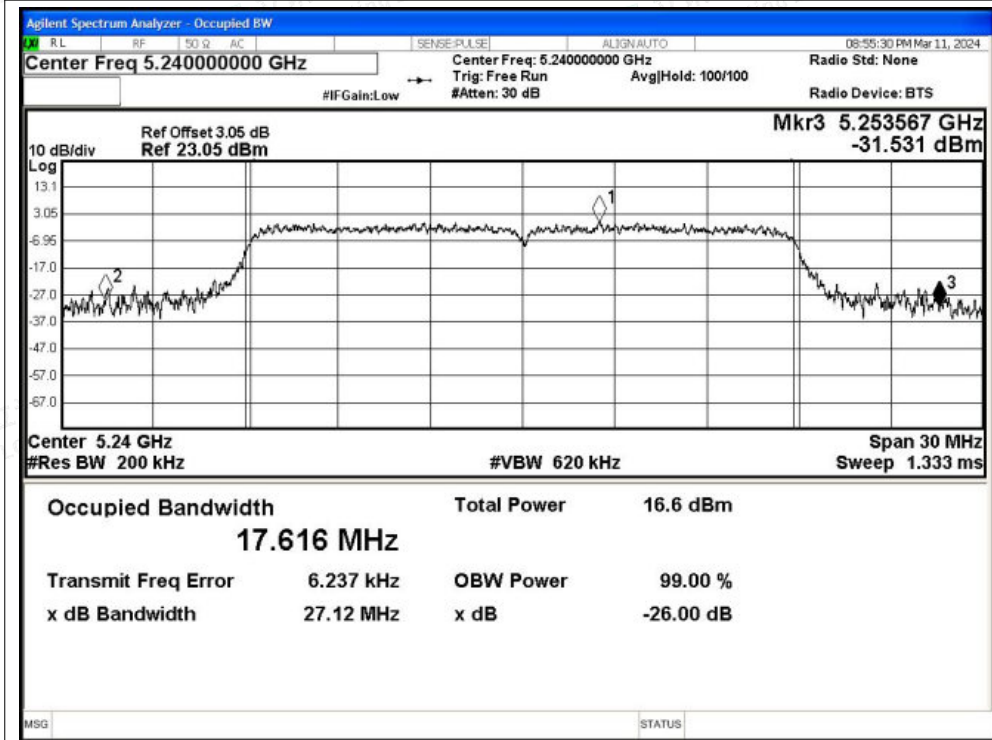


-26dB Bandwidth NVNT ac20 5200MHz Ant1

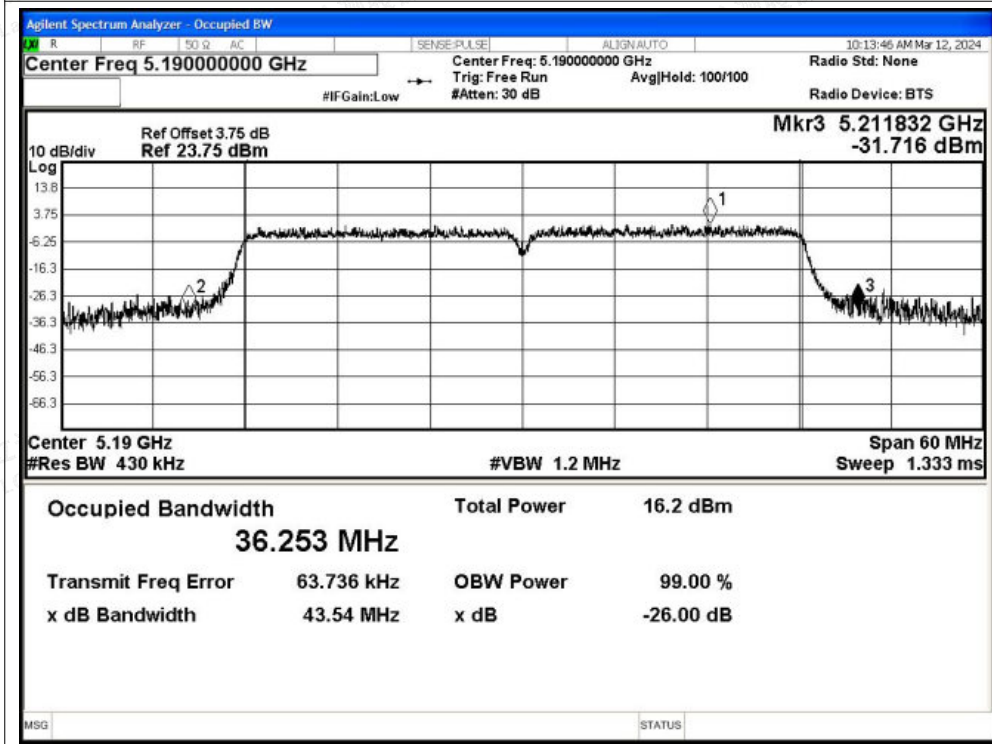




-26dB Bandwidth NVNT ac20 5240MHz Ant1

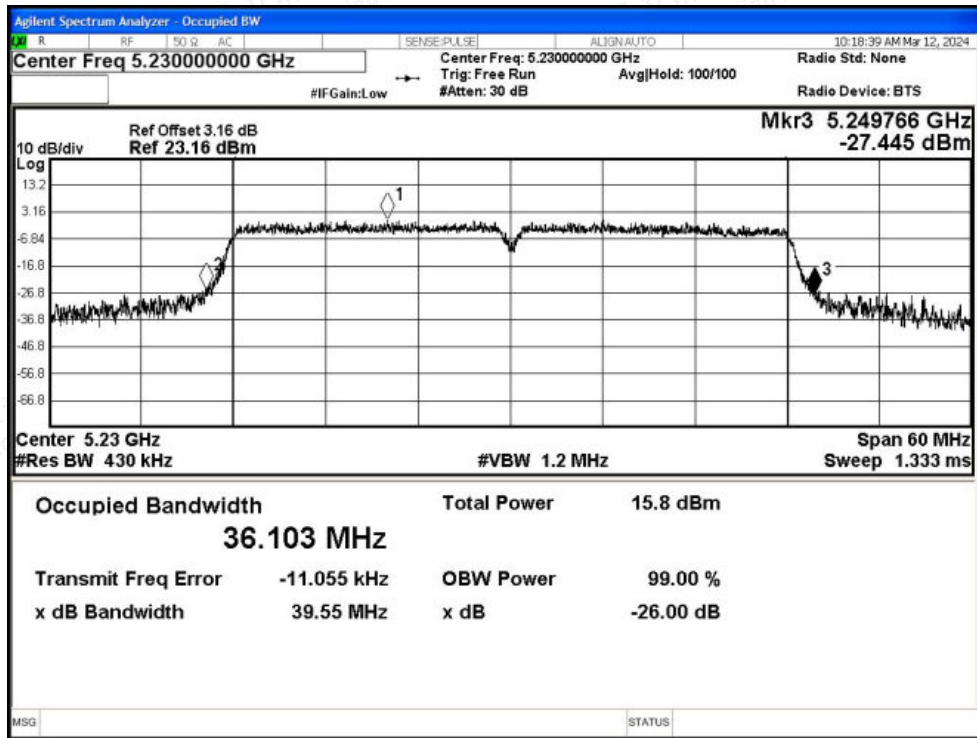


-26dB Bandwidth NVNT ac40 5190MHz Ant1

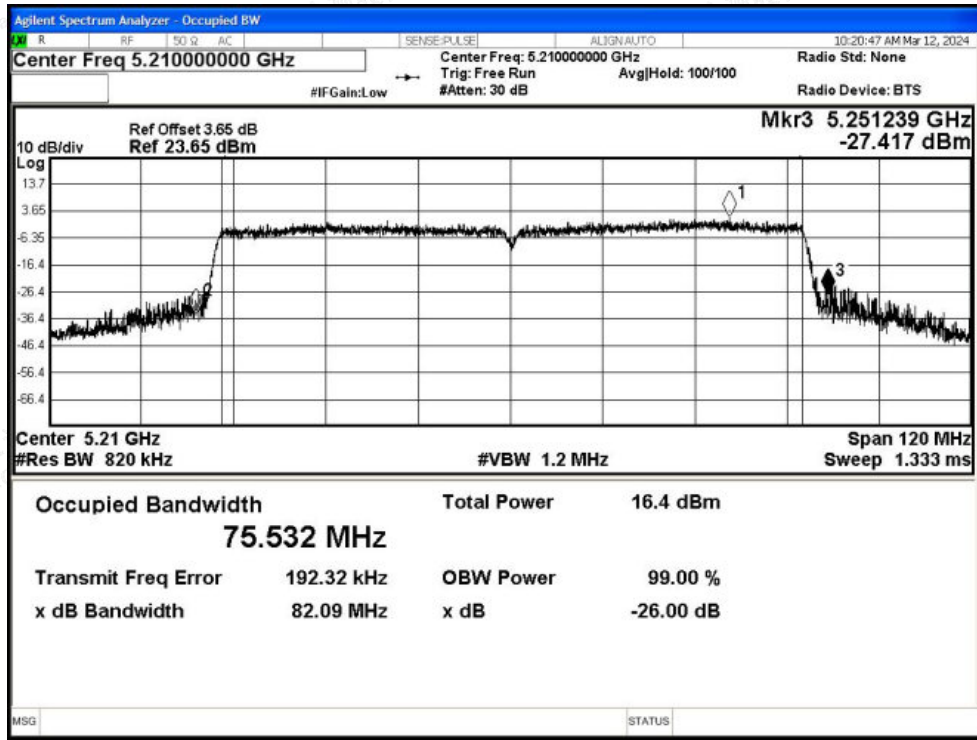




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





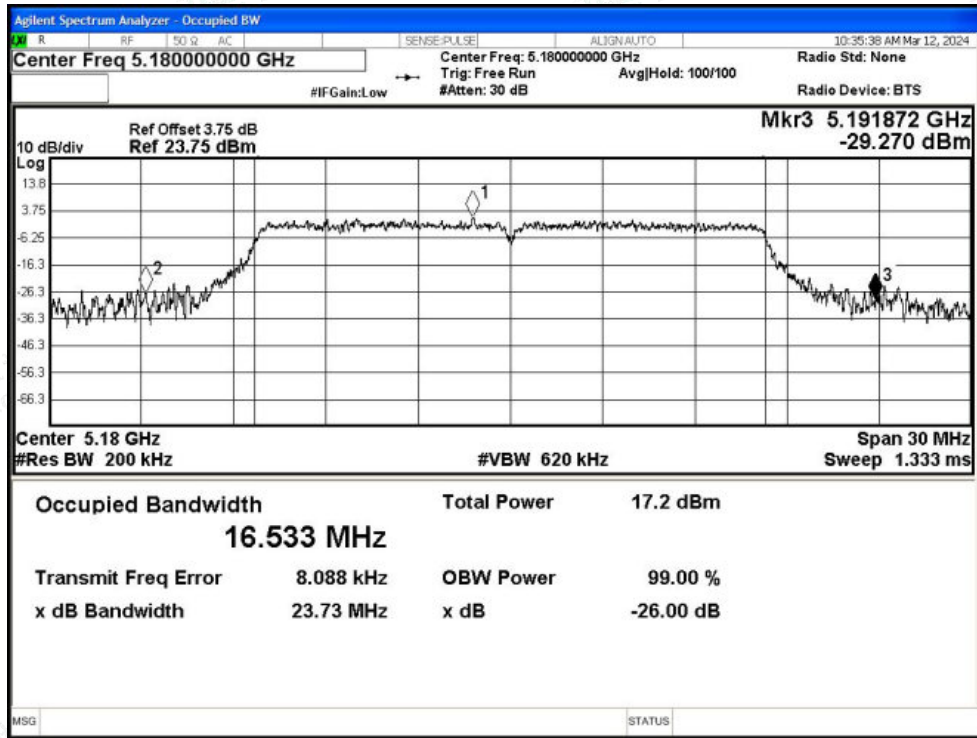
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	23.727	---	Pass
NVNT	a	5200	Ant2	24.239	---	Pass
NVNT	a	5240	Ant2	23.001	---	Pass
NVNT	n20	5180	Ant2	25.225	---	Pass
NVNT	n20	5200	Ant2	27.284	---	Pass
NVNT	n20	5240	Ant2	23.725	---	Pass
NVNT	n40	5190	Ant2	41.368	---	Pass
NVNT	n40	5230	Ant2	41.727	---	Pass
NVNT	ac20	5180	Ant2	27.473	---	Pass
NVNT	ac20	5200	Ant2	26.867	---	Pass
NVNT	ac20	5240	Ant2	28.898	---	Pass
NVNT	ac40	5190	Ant2	43.321	---	Pass
NVNT	ac40	5230	Ant2	40.84	---	Pass
NVNT	ac80	5210	Ant2	81.842	---	Pass



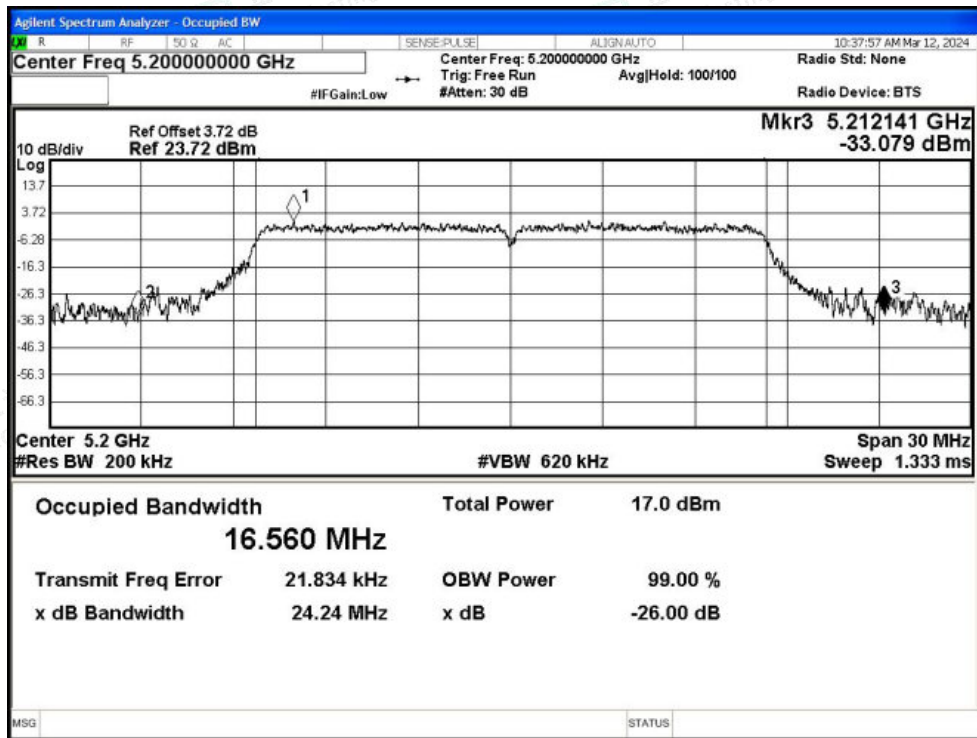


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2

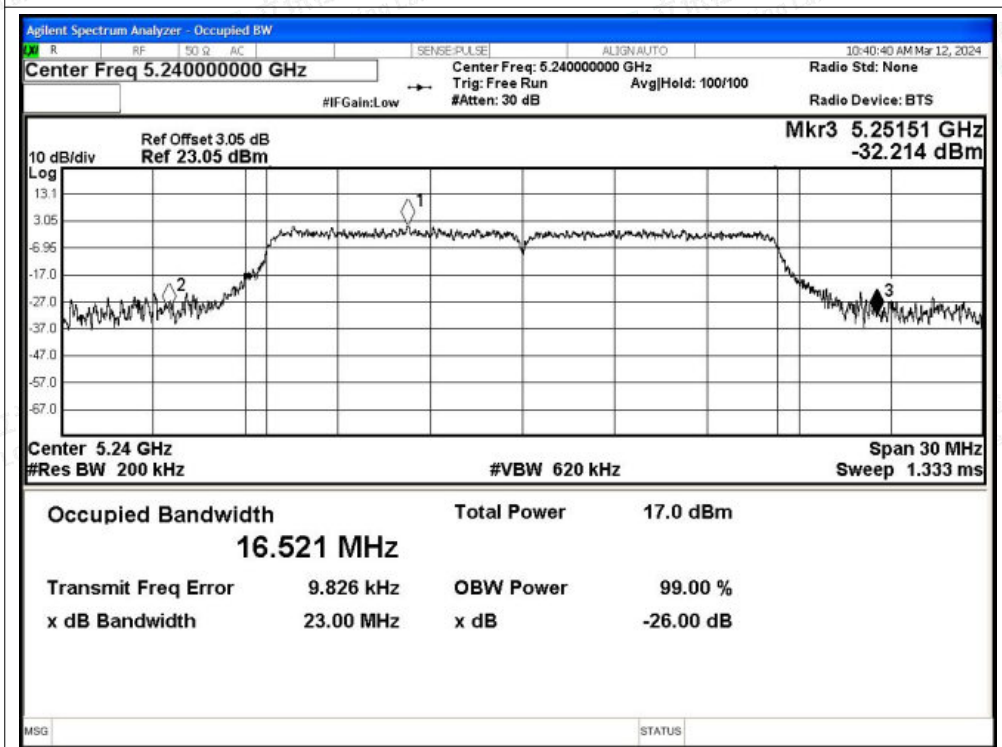


-26dB Bandwidth NVNT a 5200MHz Ant2

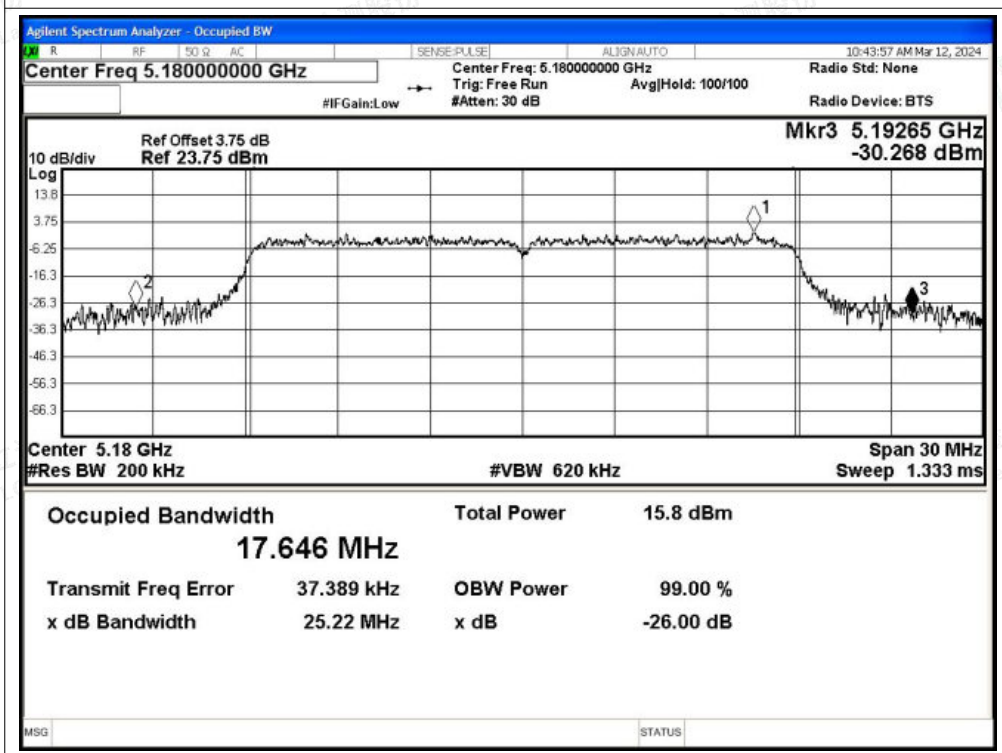




-26dB Bandwidth NVNT a 5240MHz Ant2

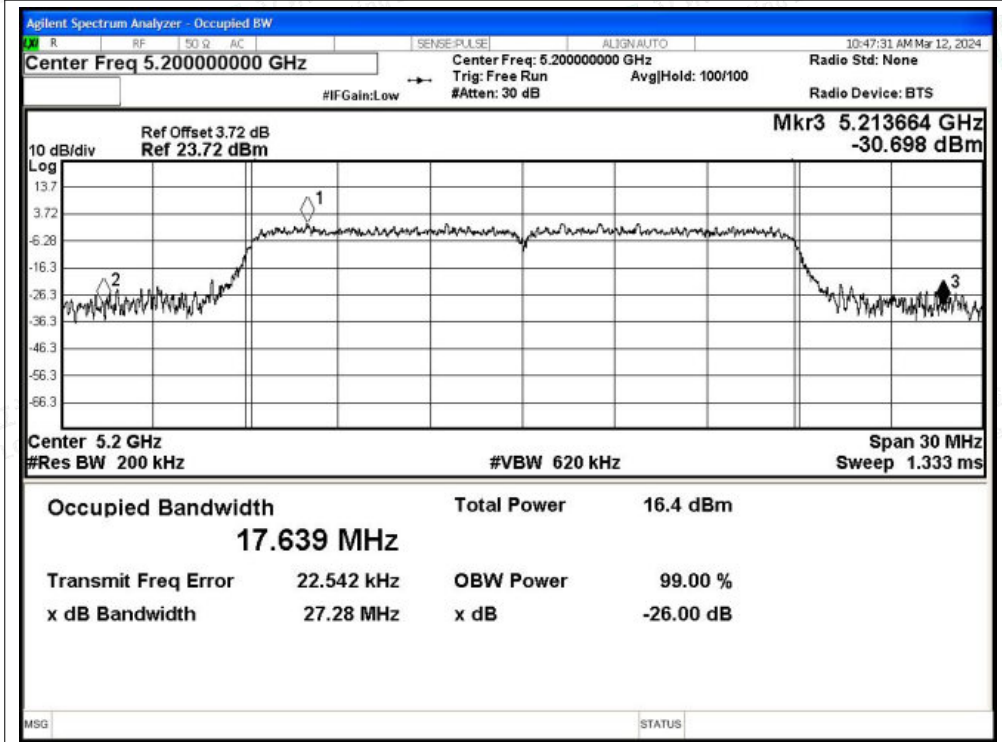


-26dB Bandwidth NVNT n20 5180MHz Ant2

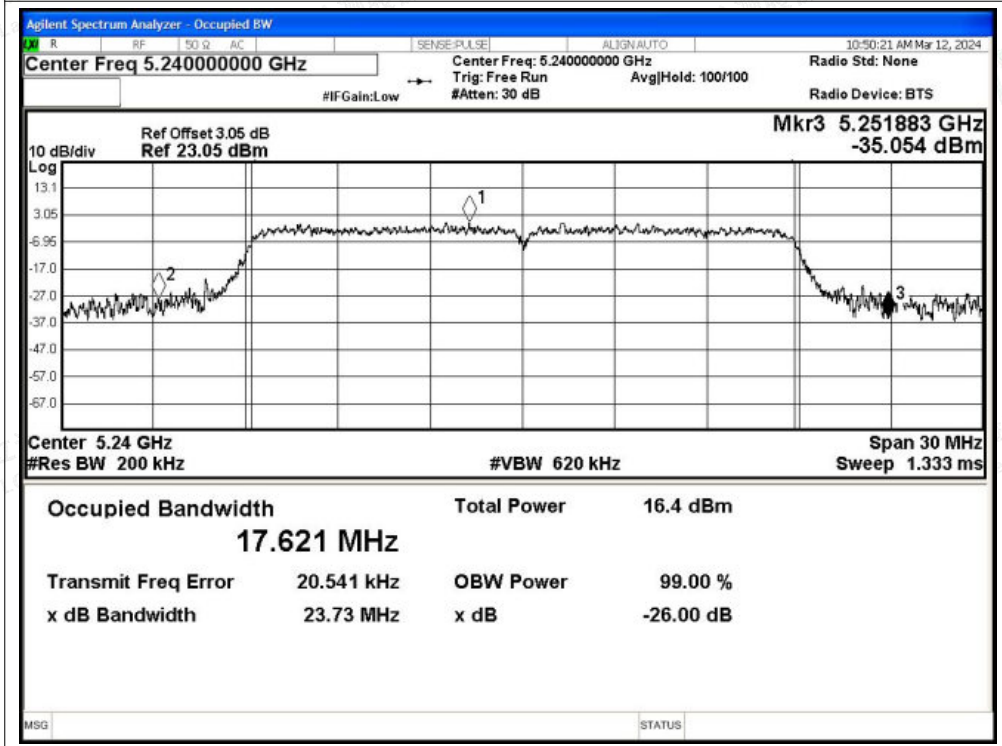




-26dB Bandwidth NVNT n20 5200MHz Ant2

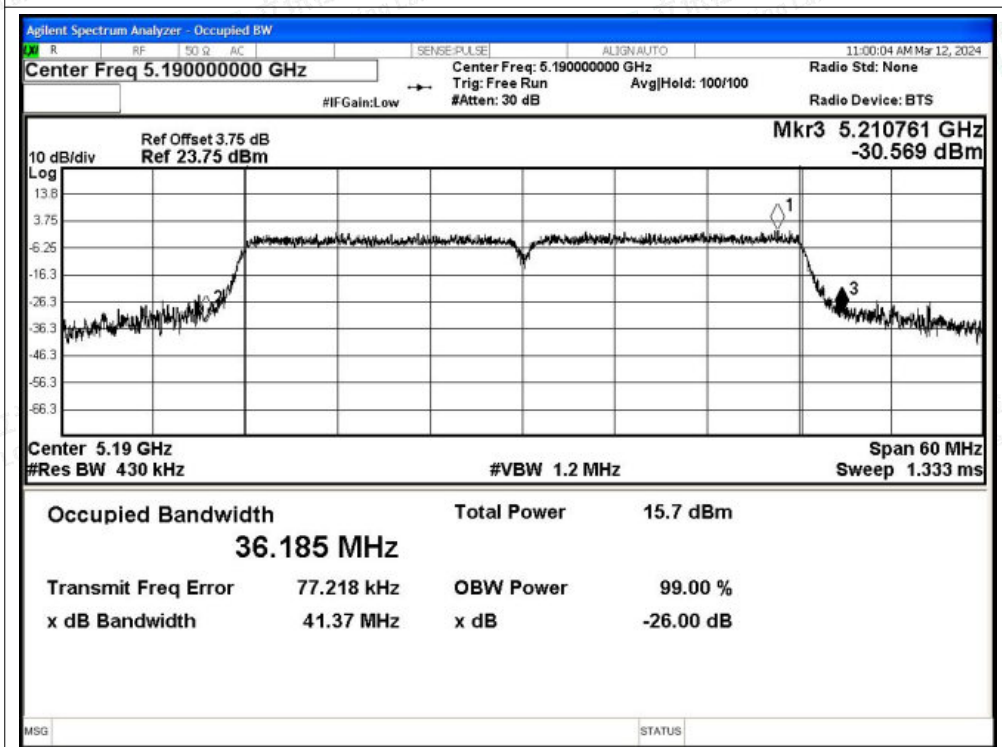


-26dB Bandwidth NVNT n20 5240MHz Ant2

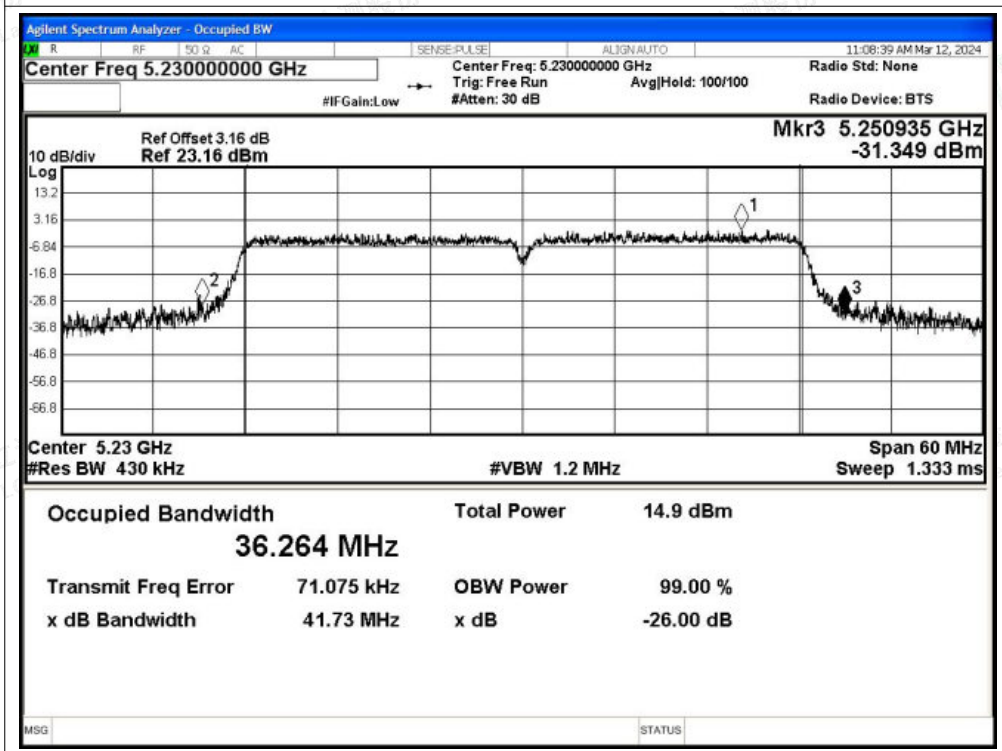




-26dB Bandwidth NVNT n40 5190MHz Ant2

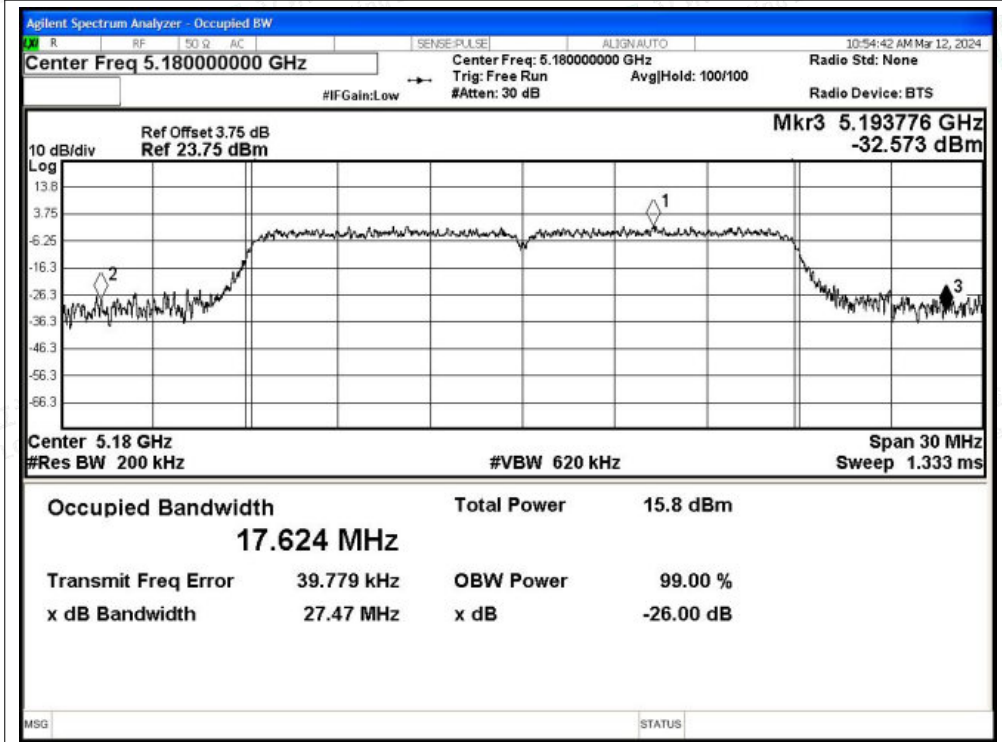


-26dB Bandwidth NVNT n40 5230MHz Ant2

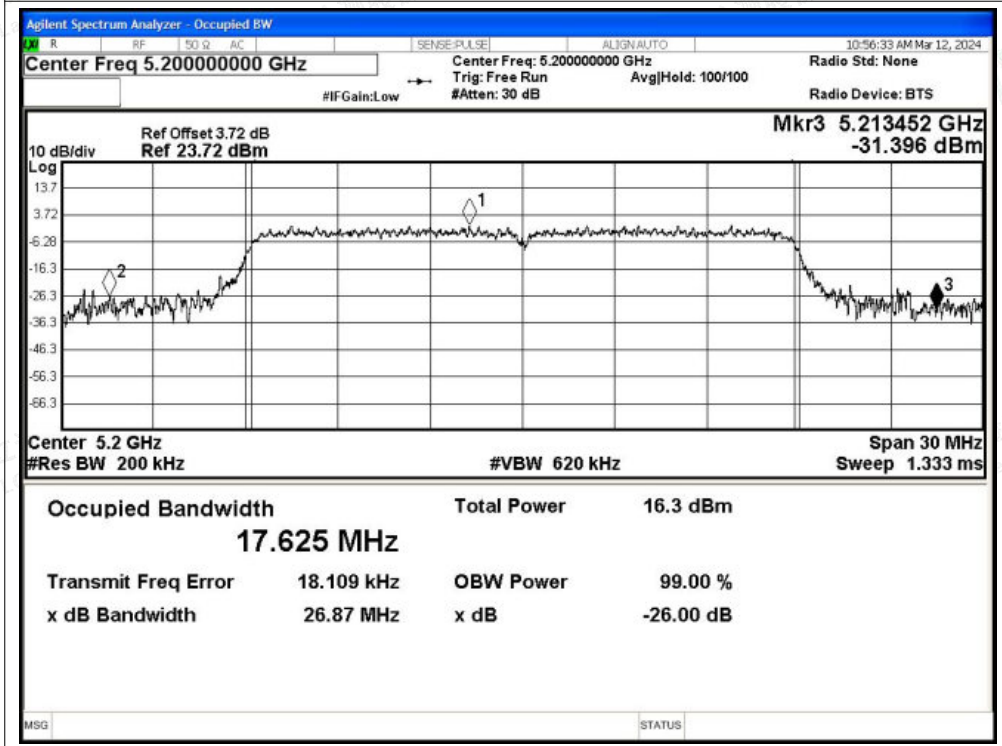




-26dB Bandwidth NVNT ac20 5180MHz Ant2

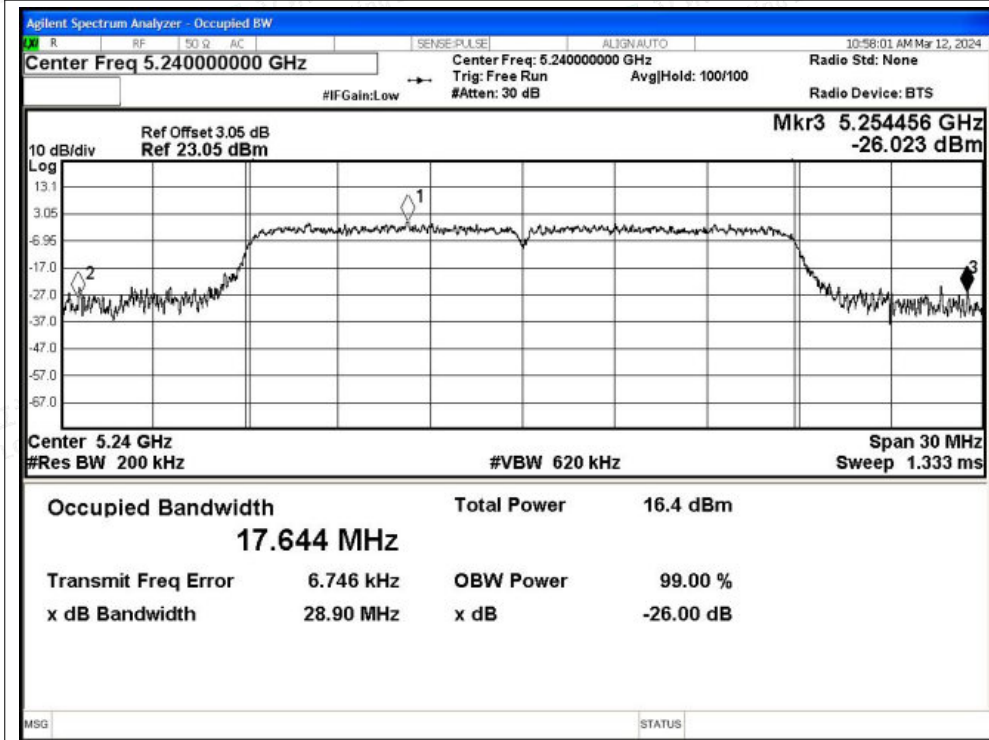


-26dB Bandwidth NVNT ac20 5200MHz Ant2

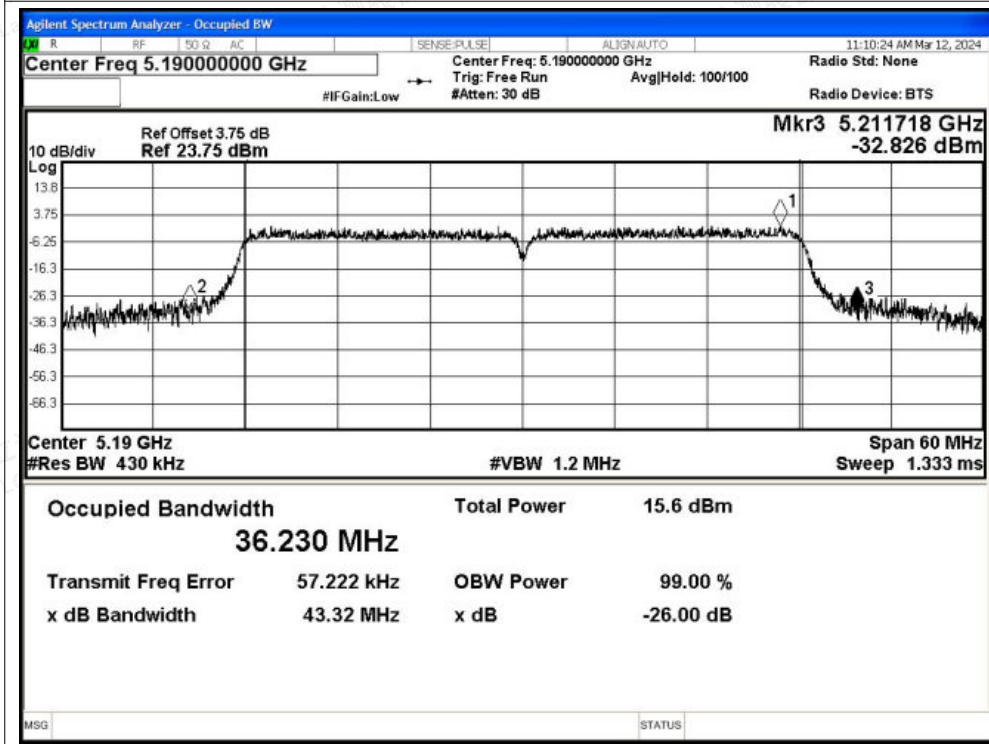




-26dB Bandwidth NVNT ac20 5240MHz Ant2

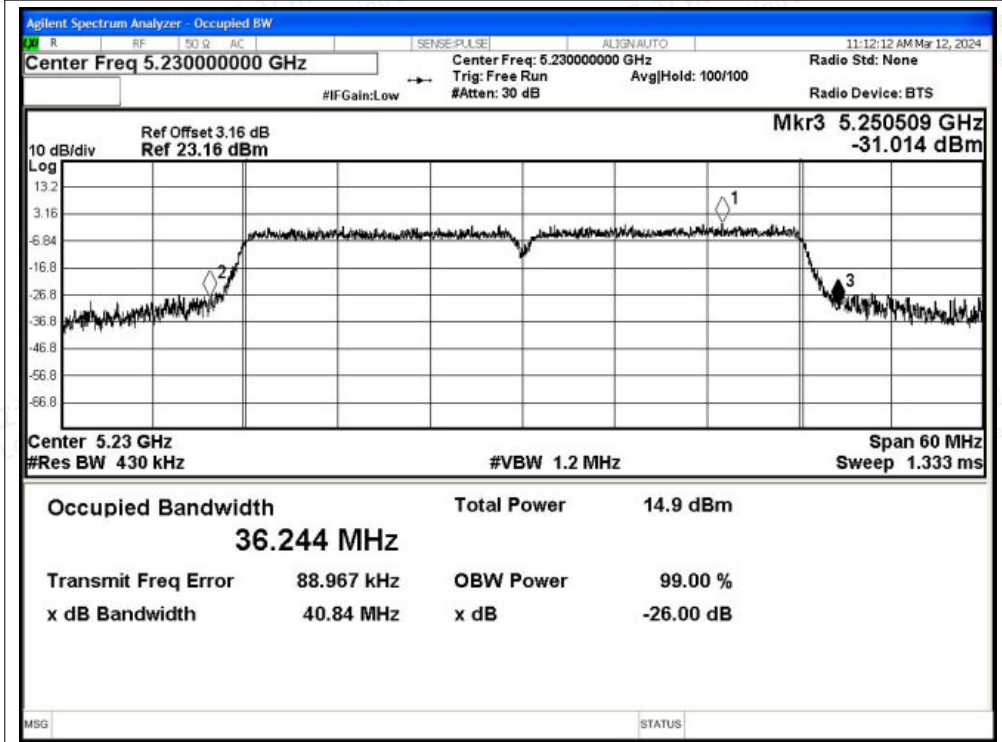


-26dB Bandwidth NVNT ac40 5190MHz Ant2

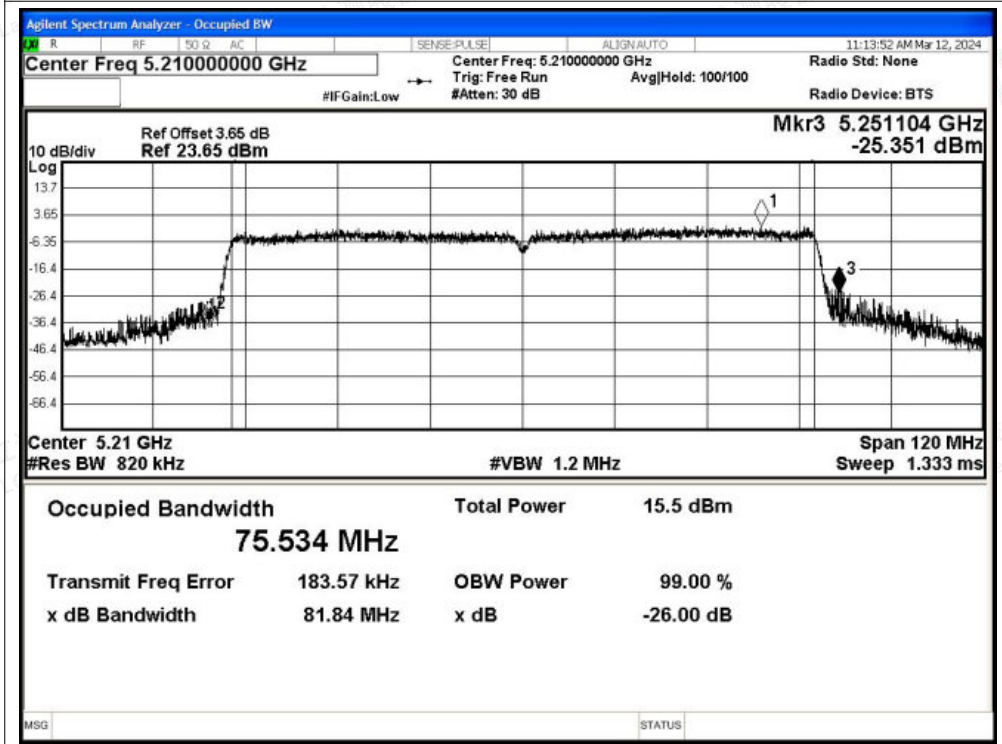




-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2





D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.16	0.1	12.26	24	Pass
NVNT	a	5200	Ant1	12.33	0.1	12.43	24	Pass
NVNT	a	5240	Ant1	12.54	0.1	12.64	24	Pass
NVNT	n20	5180	Ant1	11.79	0.12	11.91	24	Pass
NVNT	n20	5200	Ant1	11.47	0.12	11.59	24	Pass
NVNT	n20	5240	Ant1	11.7	0.12	11.82	24	Pass
NVNT	n40	5190	Ant1	10.41	0.24	10.65	24	Pass
NVNT	n40	5230	Ant1	10.73	0.23	10.96	24	Pass
NVNT	ac20	5180	Ant1	11.66	0.12	11.78	24	Pass
NVNT	ac20	5200	Ant1	11.4	0.12	11.52	24	Pass
NVNT	ac20	5240	Ant1	11.1	0.12	11.22	24	Pass
NVNT	ac40	5190	Ant1	10.3	0.24	10.54	24	Pass
NVNT	ac40	5230	Ant1	9.73	0.24	9.97	24	Pass
NVNT	ac80	5210	Ant1	9.33	0.47	9.8	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	11.28	0.1	11.38	24	Pass
NVNT	a	5200	Ant2	11.29	0.1	11.39	24	Pass
NVNT	a	5240	Ant2	11.6	0.1	11.7	24	Pass
NVNT	n20	5180	Ant2	10.26	0.12	10.38	24	Pass
NVNT	n20	5200	Ant2	10.86	0.12	10.98	24	Pass
NVNT	n20	5240	Ant2	10.91	0.12	11.03	24	Pass
NVNT	n40	5190	Ant2	9.42	0.23	9.65	24	Pass
NVNT	n40	5230	Ant2	9.09	0.24	9.33	24	Pass
NVNT	ac20	5180	Ant2	10.12	0.12	10.24	24	Pass
NVNT	ac20	5200	Ant2	10.83	0.12	10.95	24	Pass
NVNT	ac20	5240	Ant2	10.84	0.12	10.96	24	Pass
NVNT	ac40	5190	Ant2	9.75	0.23	9.98	24	Pass
NVNT	ac40	5230	Ant2	9.06	0.24	9.3	24	Pass
NVNT	ac80	5210	Ant2	8.83	0.47	9.3	24	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	11.91	10.38	14.22	21.18	Pass
NVNT	n20	5200	11.59	10.98	14.31	21.18	Pass
NVNT	n20	5240	11.82	11.03	14.45	21.18	Pass
NVNT	n40	5190	10.65	9.65	13.19	21.18	Pass
NVNT	n40	5230	10.96	9.33	13.23	21.18	Pass
NVNT	ac20	5180	11.78	10.24	14.09	21.18	Pass
NVNT	ac20	5200	11.52	10.95	14.25	21.18	Pass
NVNT	ac20	5240	11.22	10.96	14.10	21.18	Pass
NVNT	ac40	5190	10.54	9.98	13.28	21.18	Pass
NVNT	ac40	5230	9.97	9.3	12.66	21.18	Pass
NVNT	ac80	5210	9.8	9.3	12.57	21.18	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.64	0.1	1.74	11	Pass
NVNT	a	5200	Ant1	1.8	0.1	1.9	11	Pass
NVNT	a	5240	Ant1	2.23	0.1	2.33	11	Pass
NVNT	n20	5180	Ant1	1.01	0.12	1.13	11	Pass
NVNT	n20	5200	Ant1	0.56	0.12	0.68	11	Pass
NVNT	n20	5240	Ant1	1.52	0.12	1.64	11	Pass
NVNT	n40	5190	Ant1	-3.34	0.24	-3.1	11	Pass
NVNT	n40	5230	Ant1	-57.38	0.23	-57.15	11	Pass
NVNT	ac20	5180	Ant1	0.82	0.12	0.94	11	Pass
NVNT	ac20	5200	Ant1	0.49	0.12	0.61	11	Pass
NVNT	ac20	5240	Ant1	0.3	0.12	0.42	11	Pass
NVNT	ac40	5190	Ant1	-3.53	0.24	-3.29	11	Pass
NVNT	ac40	5230	Ant1	-3.8	0.24	-3.56	11	Pass
NVNT	ac80	5210	Ant1	-6.46	0.47	-5.99	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD(dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	1.22	0.1	1.32	11	Pass
NVNT	a	5200	Ant2	0.98	0.1	1.08	11	Pass
NVNT	a	5240	Ant2	1.36	0.1	1.46	11	Pass
NVNT	n20	5180	Ant2	-0.67	0.12	-0.55	11	Pass
NVNT	n20	5200	Ant2	0.06	0.12	0.18	11	Pass
NVNT	n20	5240	Ant2	0.07	0.12	0.19	11	Pass
NVNT	n40	5190	Ant2	-3.94	0.23	-3.71	11	Pass
NVNT	n40	5230	Ant2	-4.57	0.24	-4.33	11	Pass
NVNT	ac20	5180	Ant2	-0.59	0.12	-0.47	11	Pass
NVNT	ac20	5200	Ant2	-0.05	0.12	0.07	11	Pass
NVNT	ac20	5240	Ant2	-0.06	0.12	0.06	11	Pass
NVNT	ac40	5190	Ant2	-4.02	0.23	-3.79	11	Pass
NVNT	ac40	5230	Ant2	-4.52	0.24	-4.28	11	Pass
NVNT	ac80	5210	Ant2	-7.37	0.47	-6.9	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	1.13	-0.55	3.38	8.18	Pass
NVNT	n20	5200	0.68	0.18	3.45	8.18	Pass
NVNT	n20	5240	1.64	0.19	3.99	8.18	Pass
NVNT	n40	5190	-3.1	-3.71	-0.38	8.18	Pass
NVNT	n40	5230	-57.15	-4.33	-4.33	8.18	Pass
NVNT	ac20	5180	0.94	-0.47	3.30	8.18	Pass
NVNT	ac20	5200	0.61	0.07	3.36	8.18	Pass
NVNT	ac20	5240	0.42	0.06	3.25	8.18	Pass
NVNT	ac40	5190	-3.29	-3.79	-0.52	8.18	Pass
NVNT	ac40	5230	-3.56	-4.28	-0.89	8.18	Pass
NVNT	ac80	5210	-5.99	-6.9	-3.41	8.18	Pass

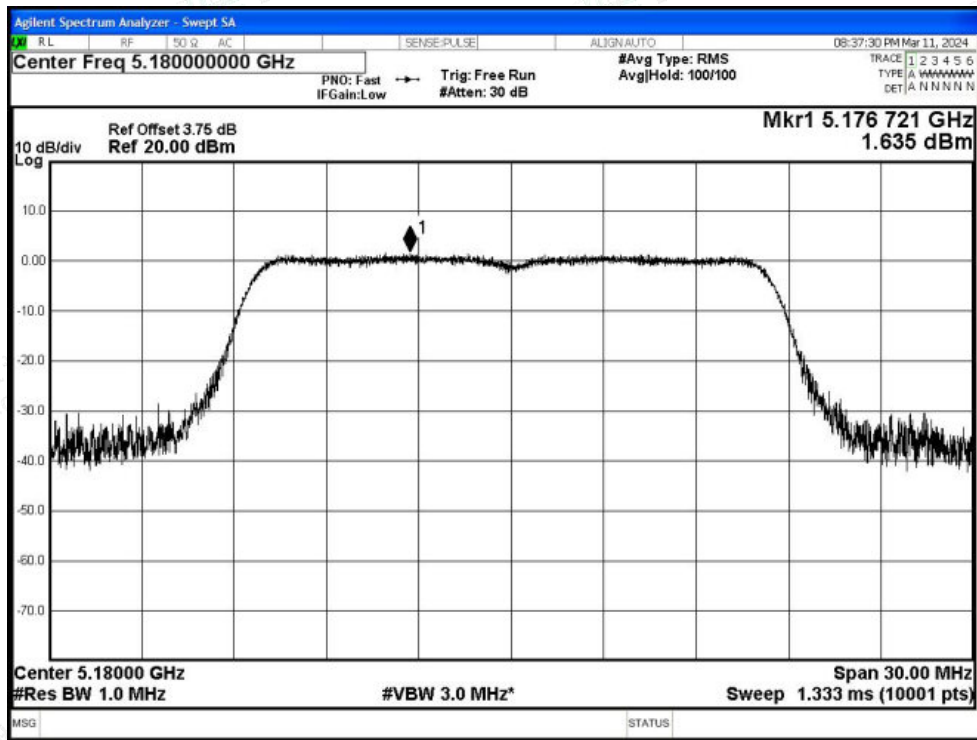


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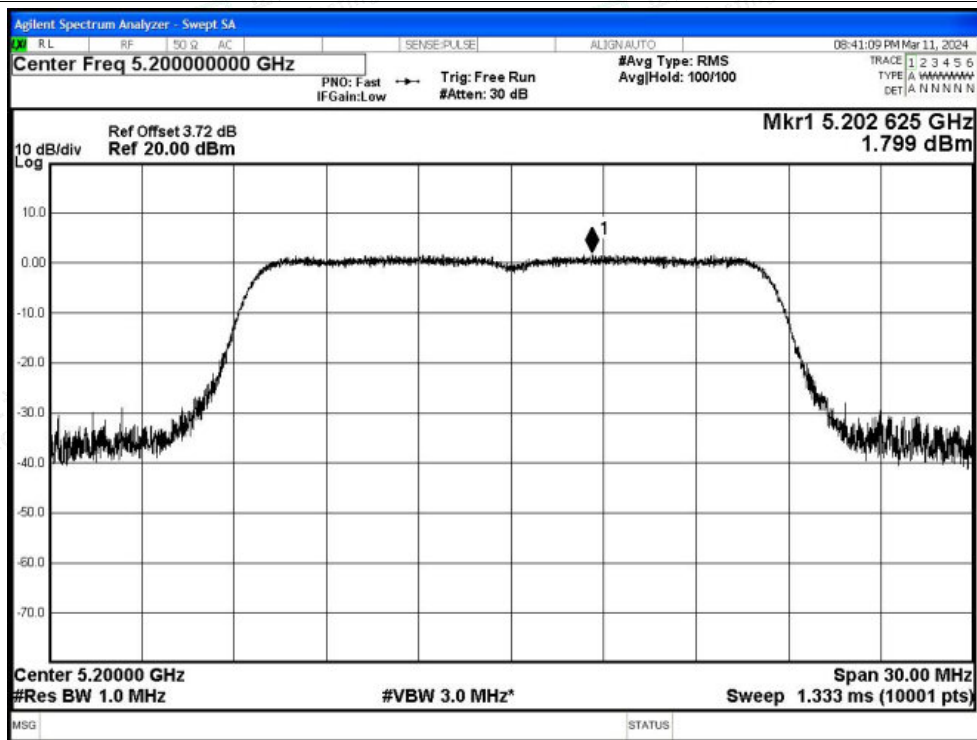


Test Graphs

PSD NVNT a 5180MHz Ant1

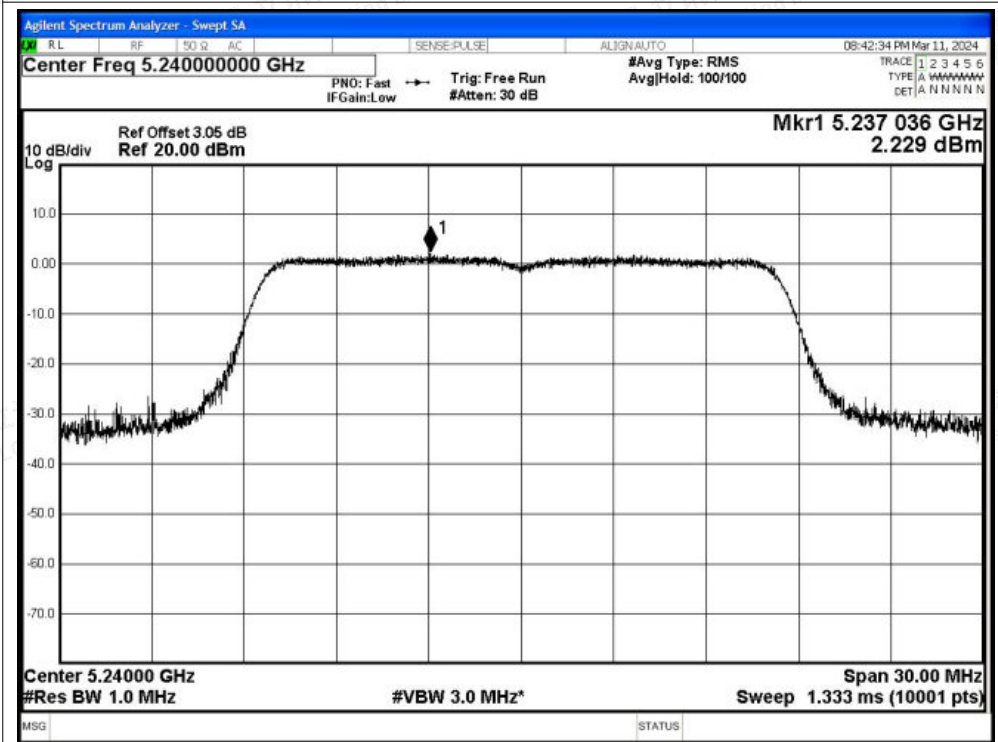


PSD NVNT a 5200MHz Ant1

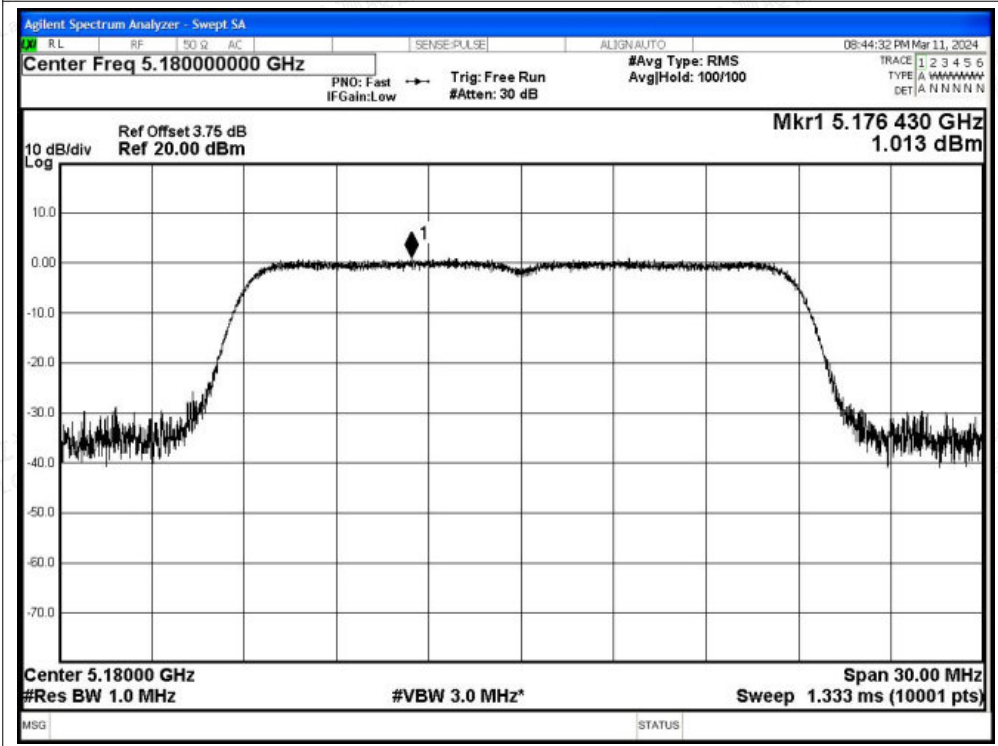




PSD NVNT a 5240MHz Ant1

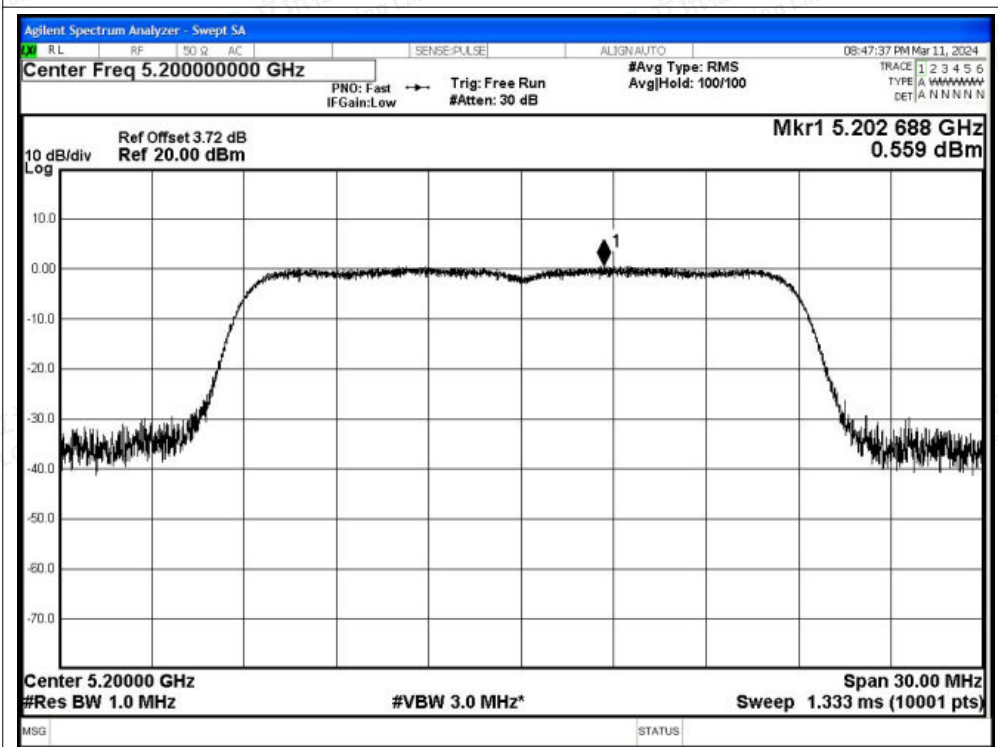


PSD NVNT n20 5180MHz Ant1

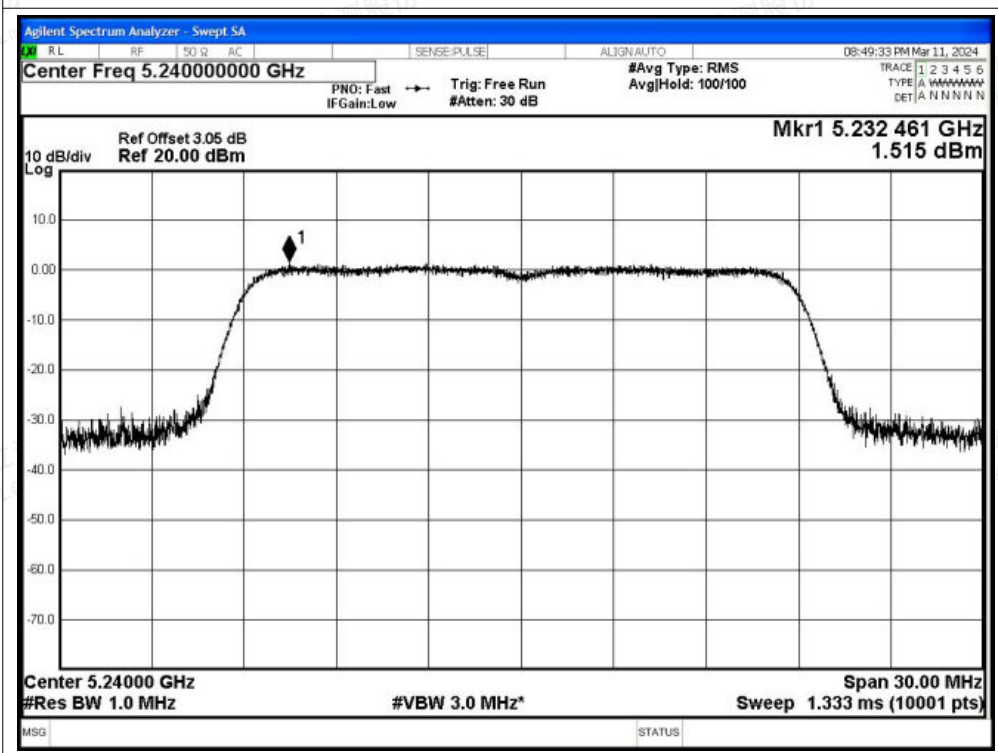




PSD NVNT n20 5200MHz Ant1

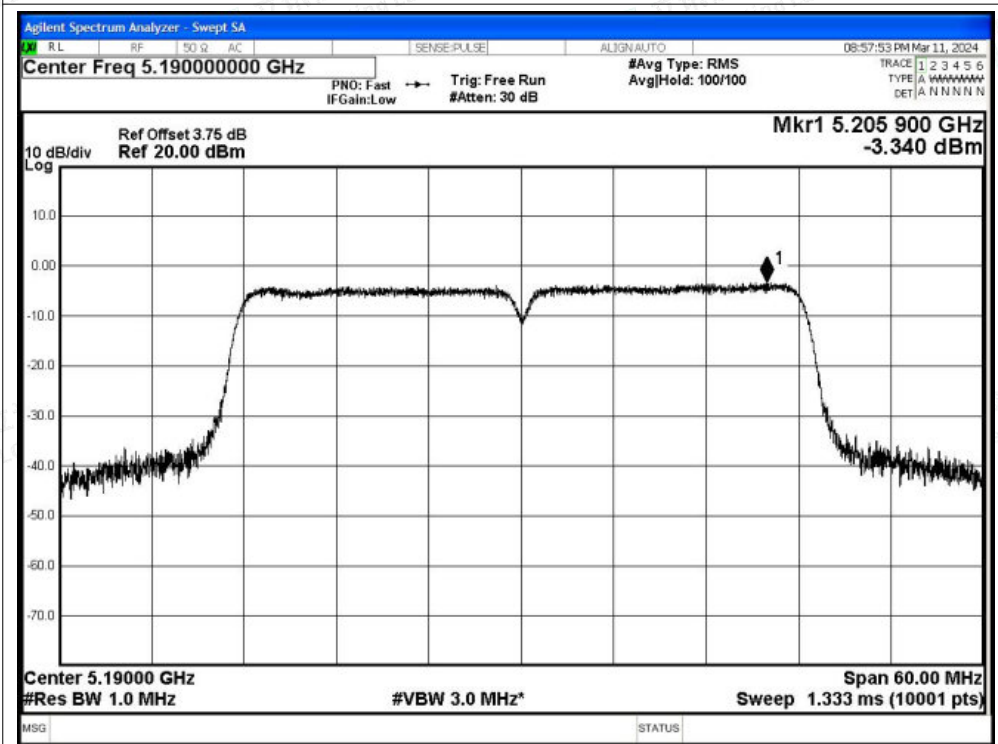


PSD NVNT n20 5240MHz Ant1

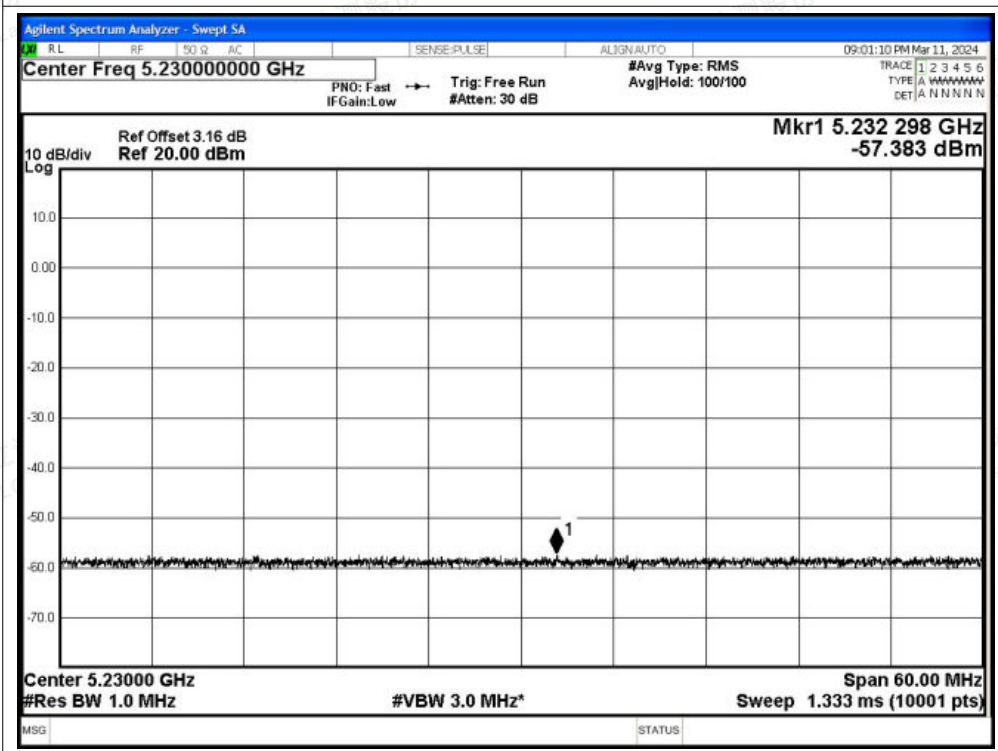


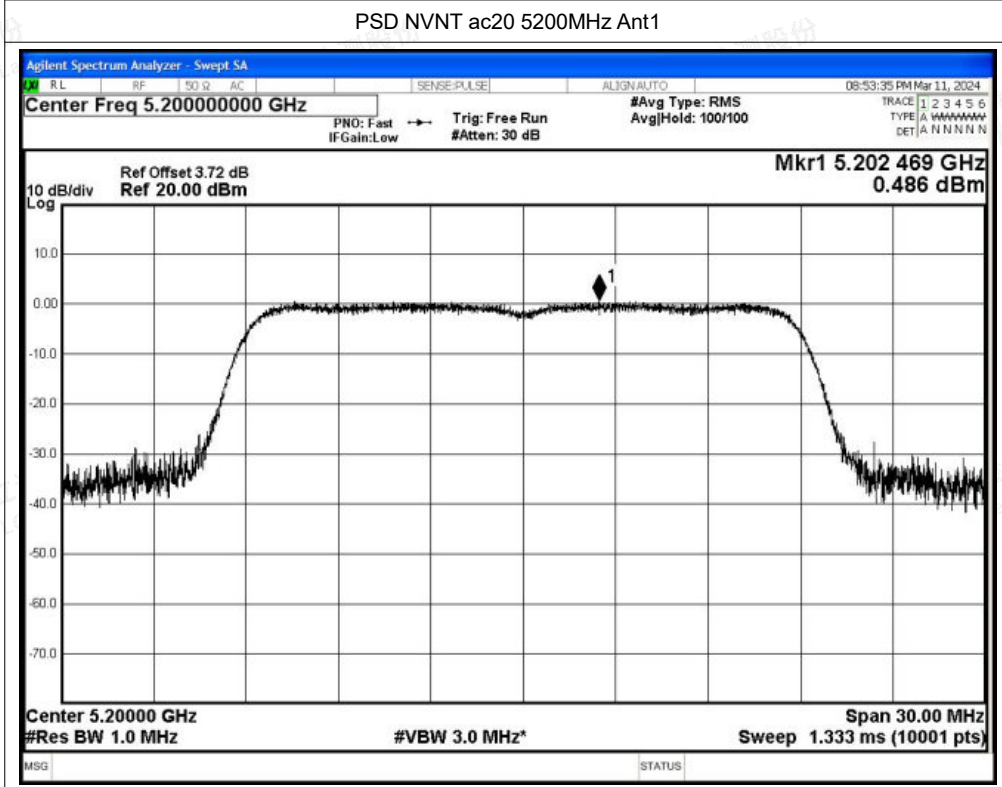
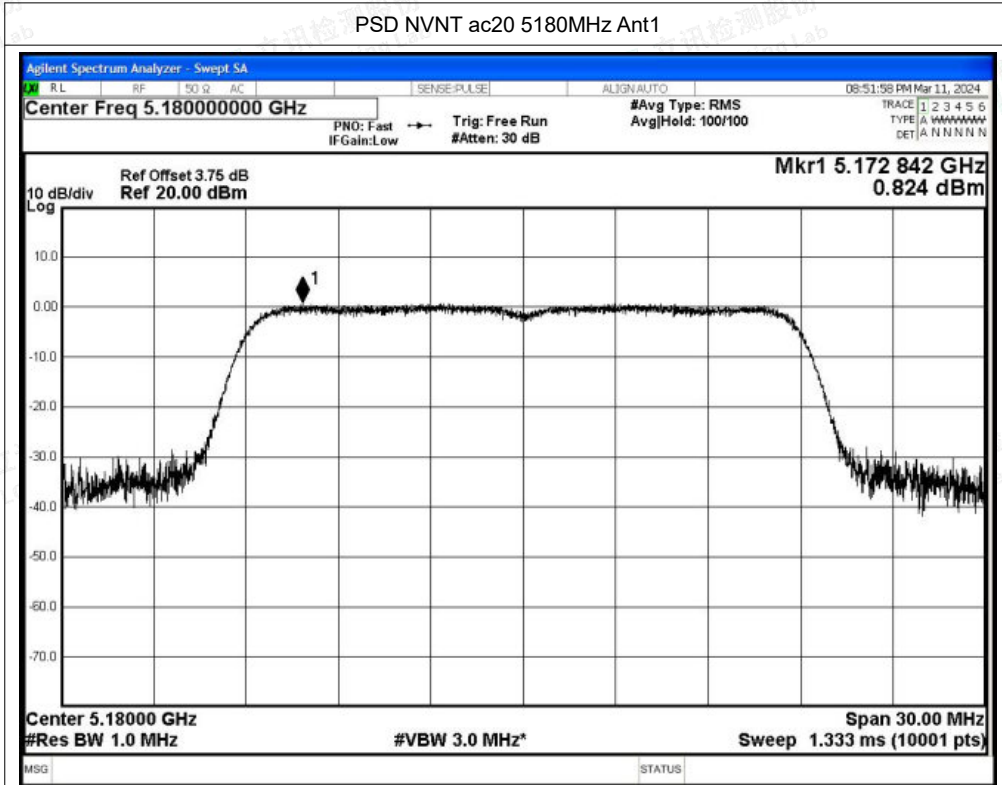


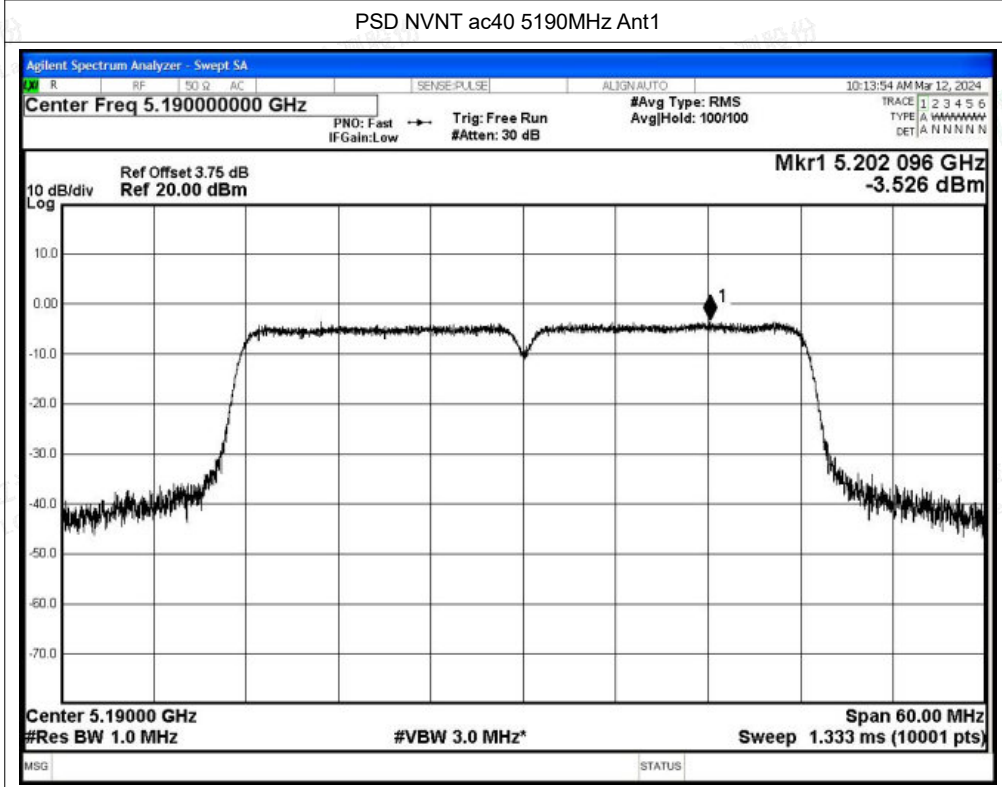
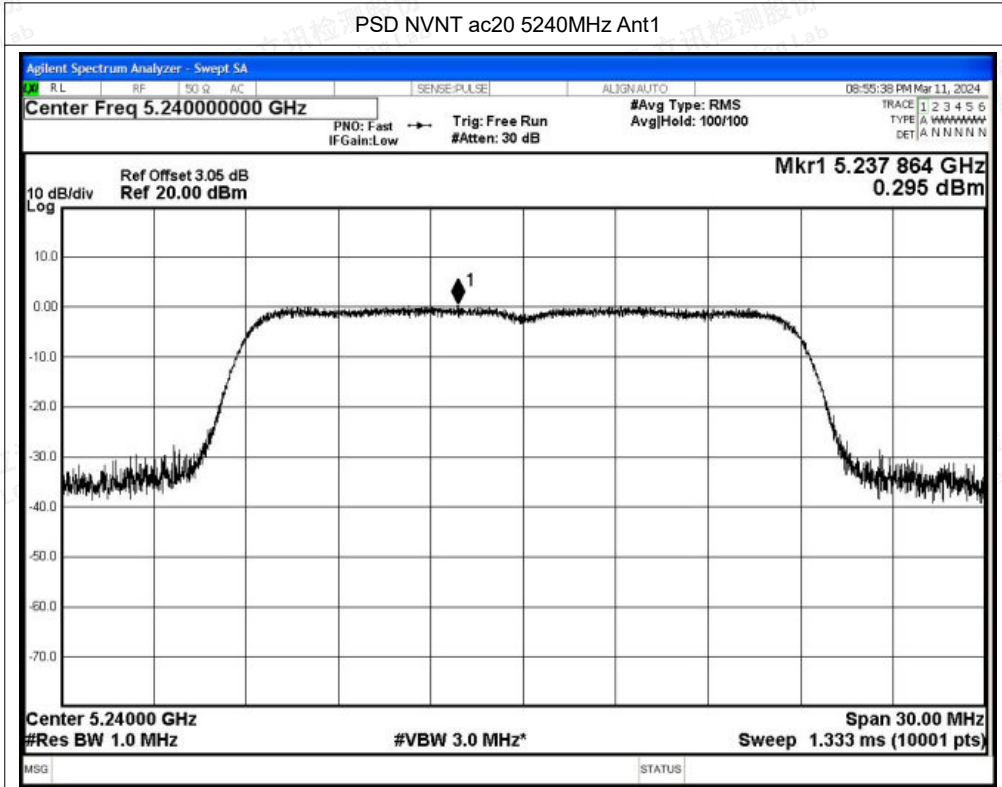
PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

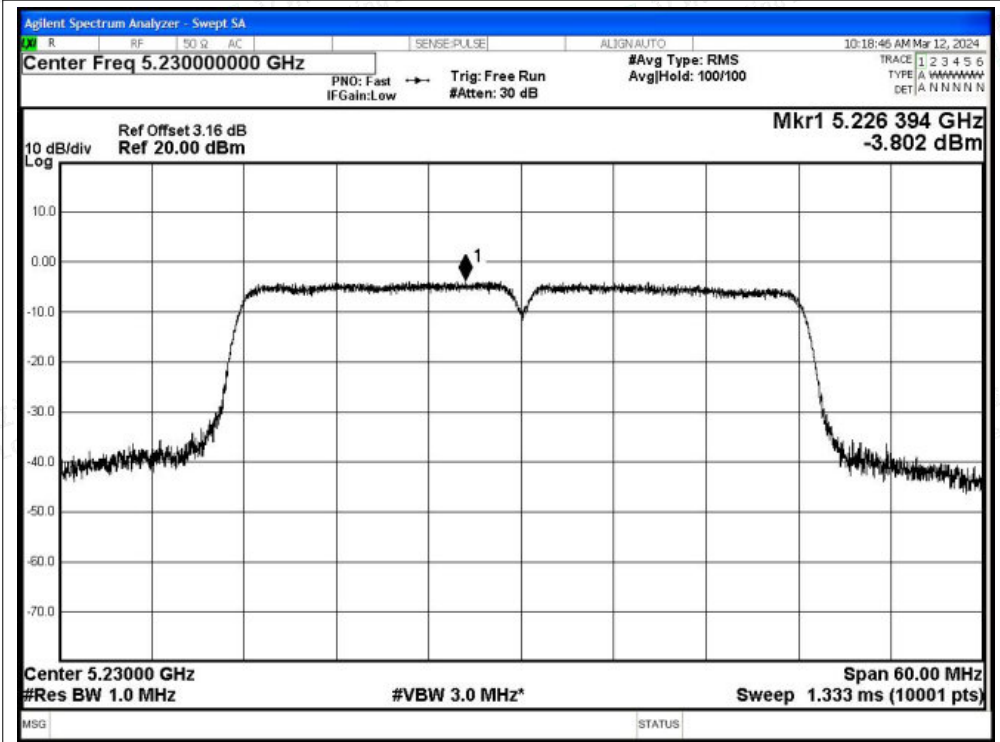




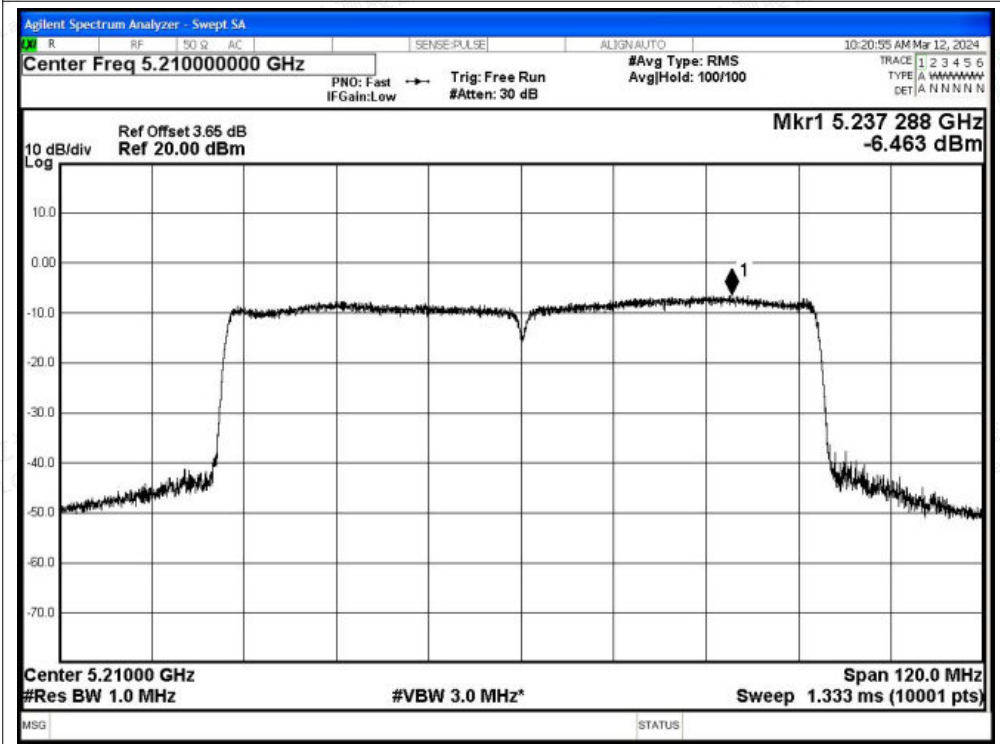




PSD NVNT ac40 5230MHz Ant1



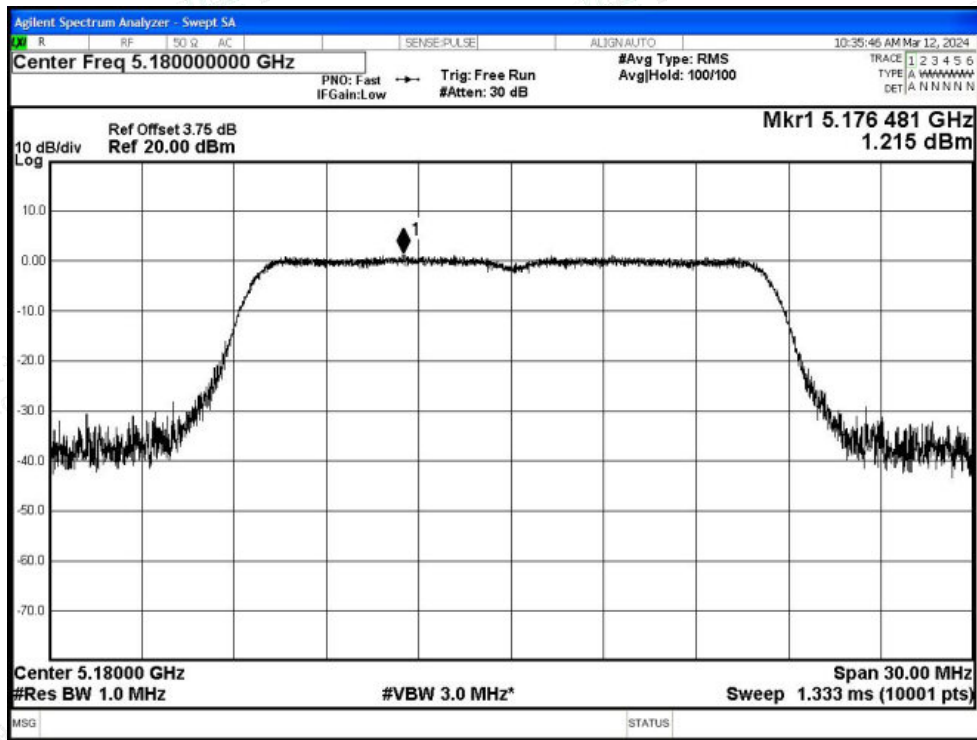
PSD NVNT ac80 5210MHz Ant1



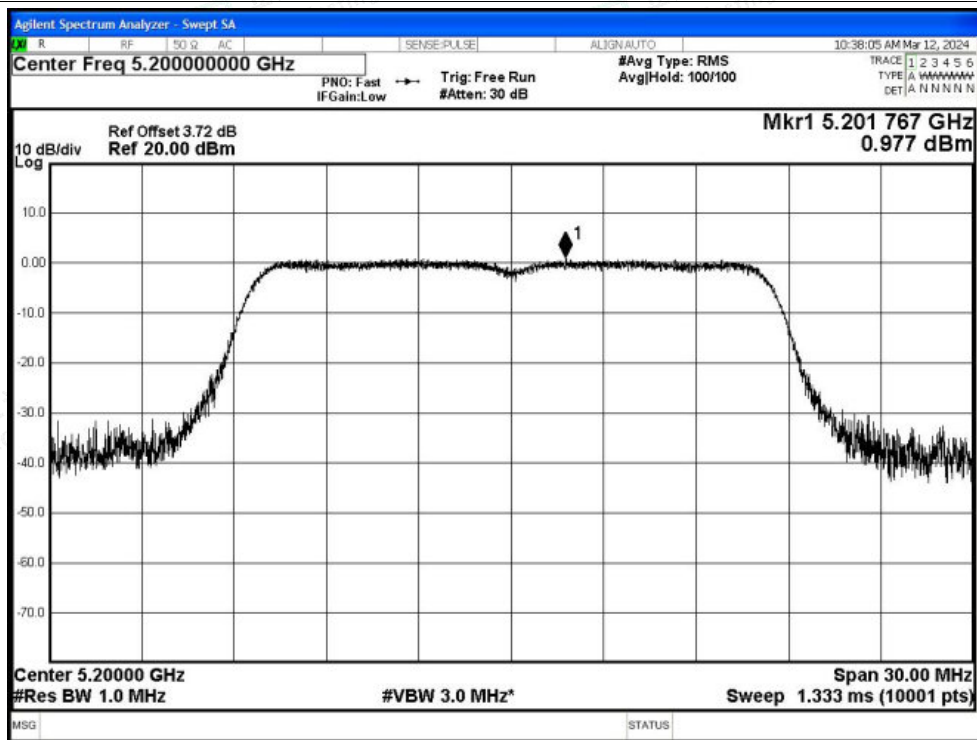


Test Graphs

PSD NVNT a 5180MHz Ant2

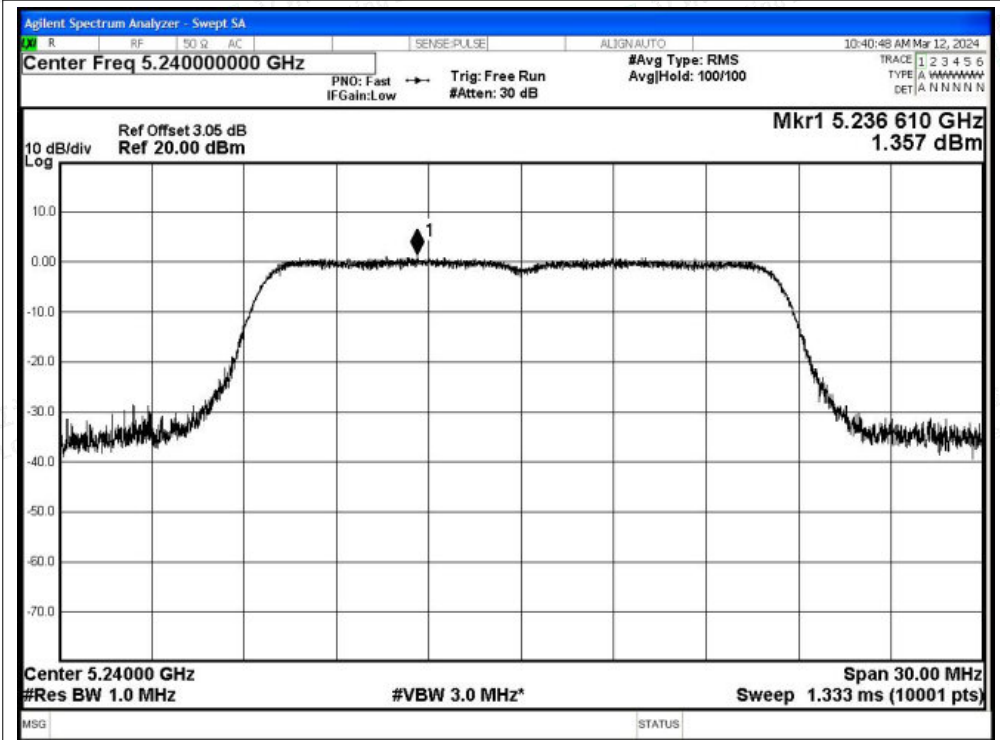


PSD NVNT a 5200MHz Ant2

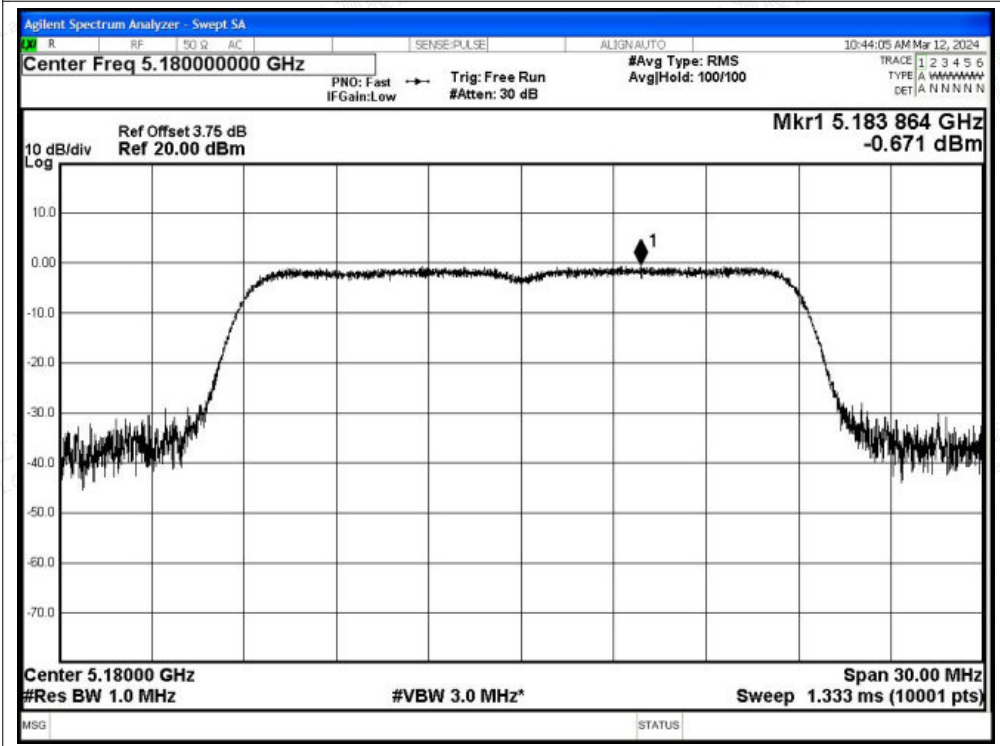




PSD NVNT a 5240MHz Ant2

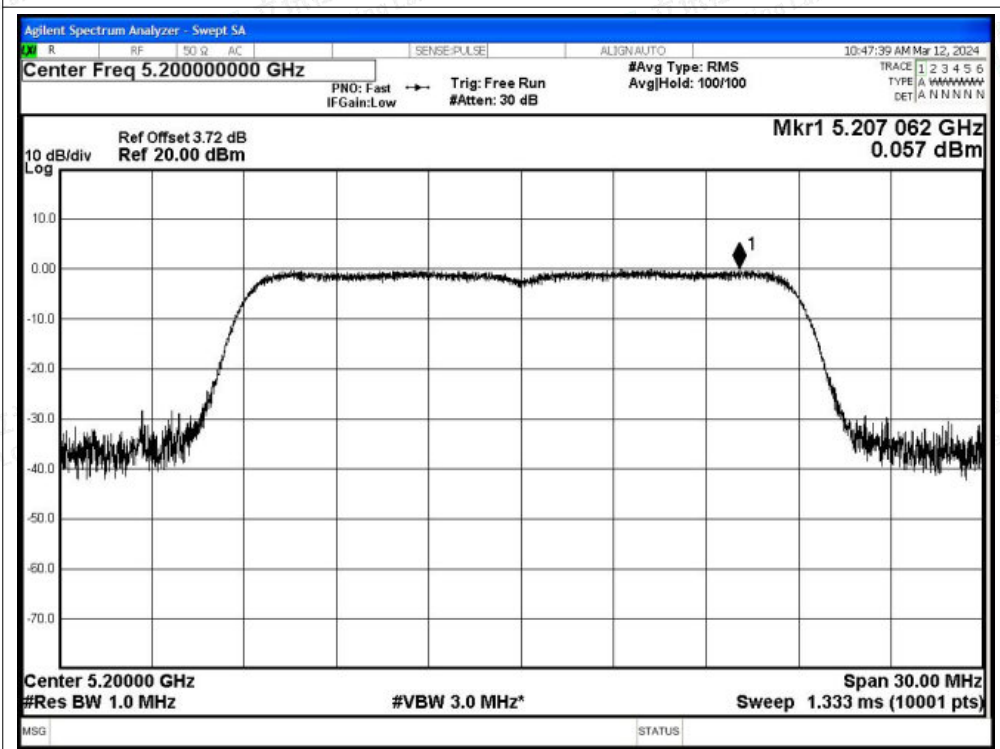


PSD NVNT n20 5180MHz Ant2

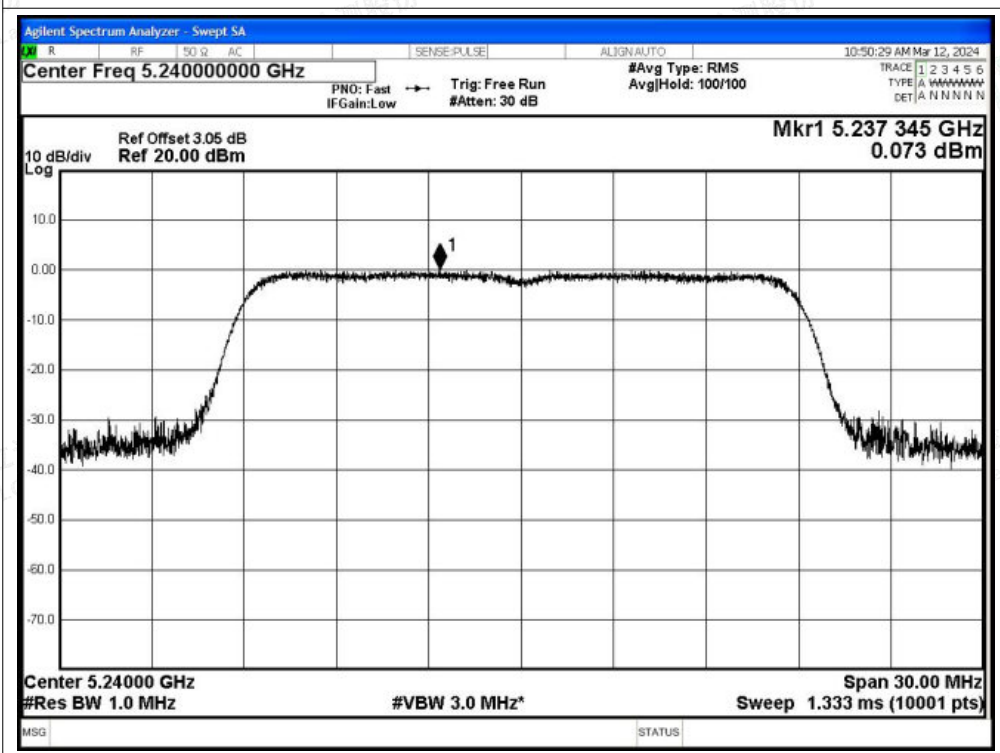




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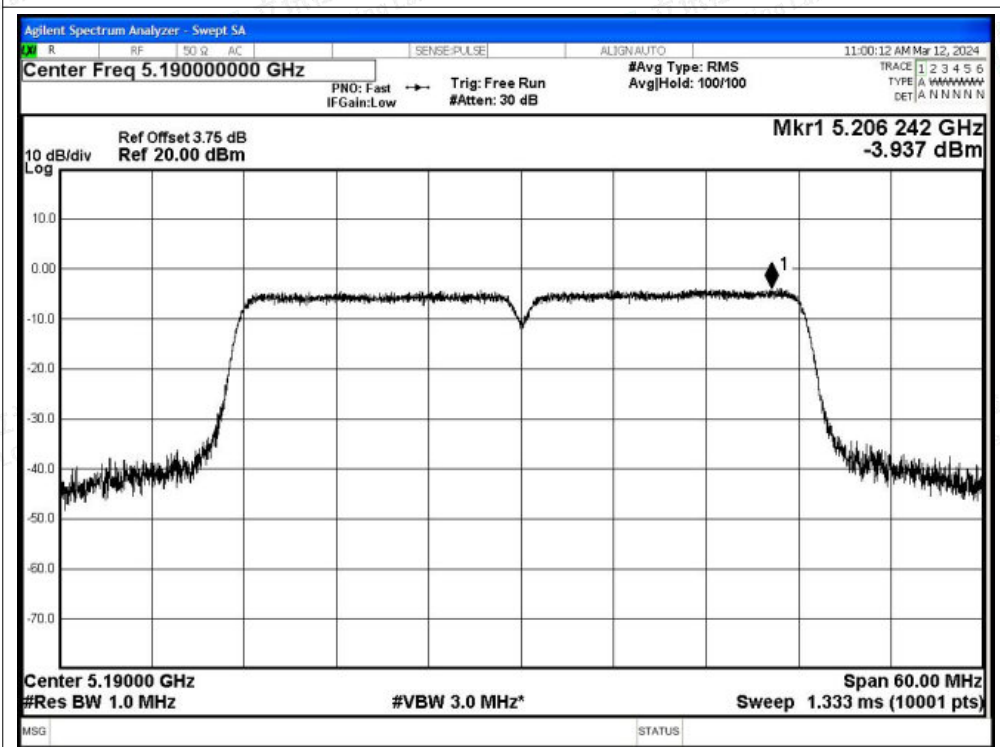


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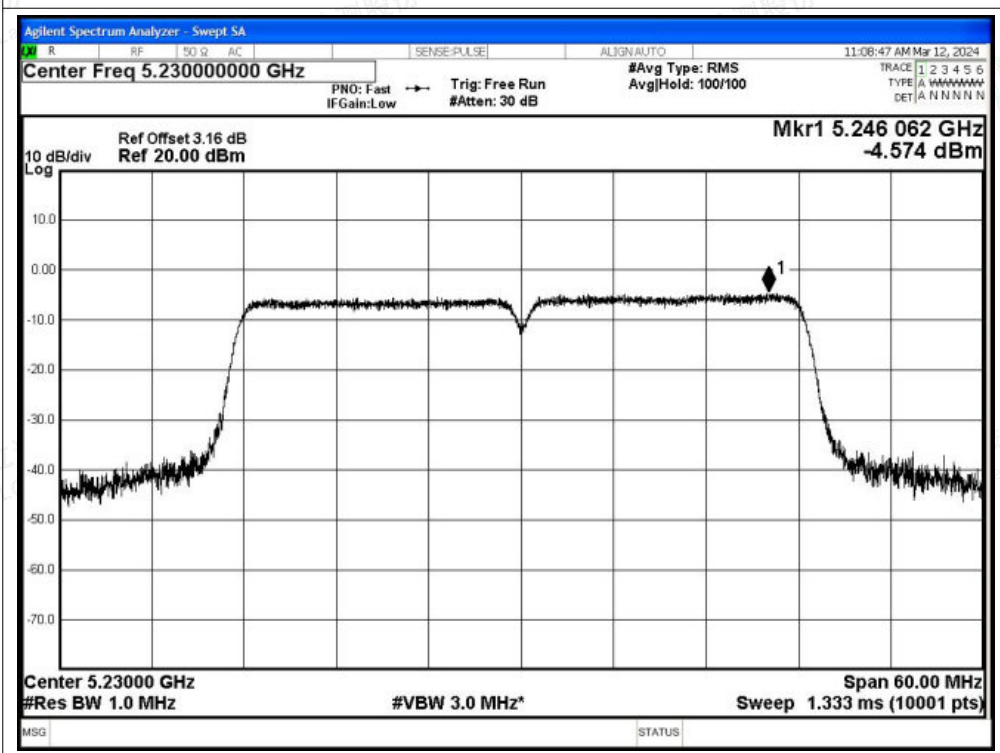




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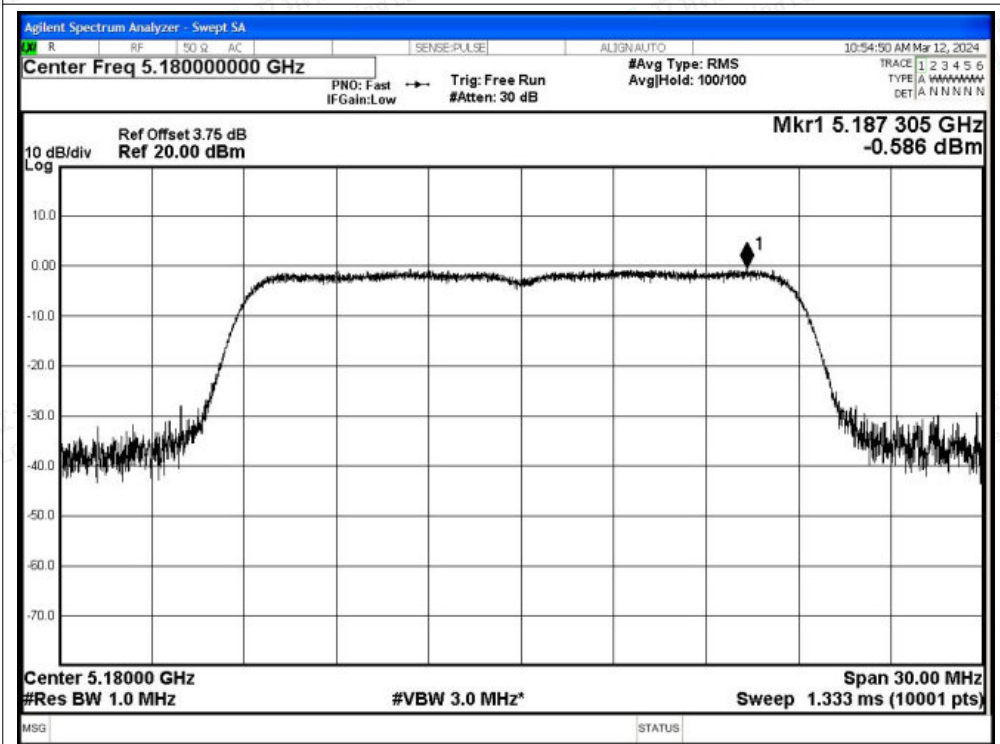


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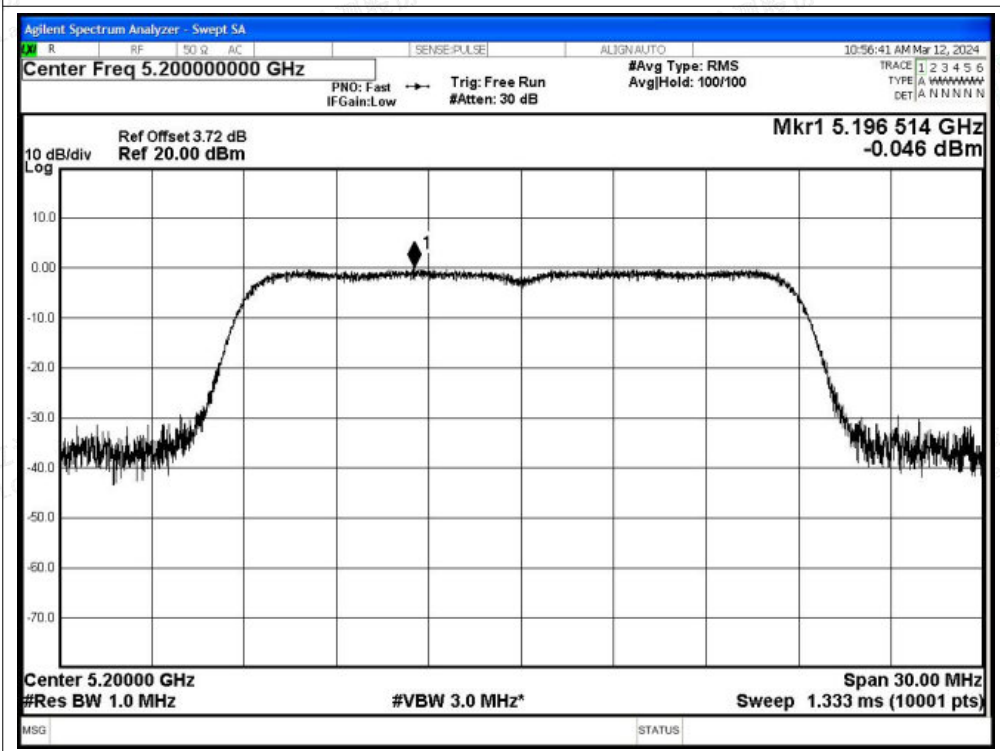




PSD NVNT ac20 5180MHz Ant2

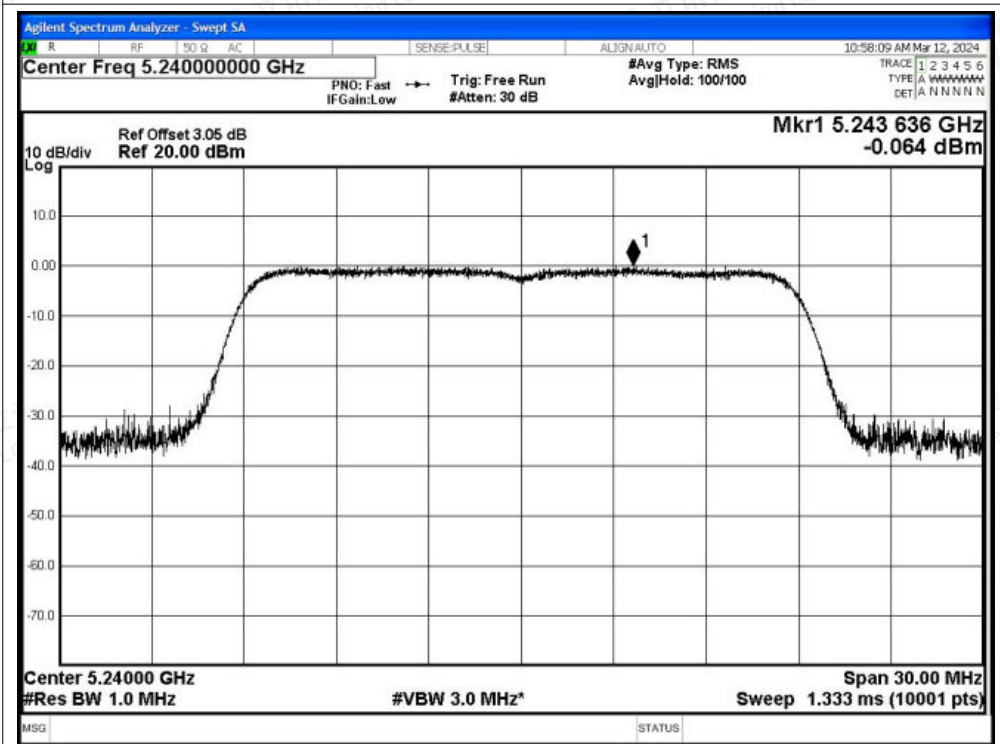


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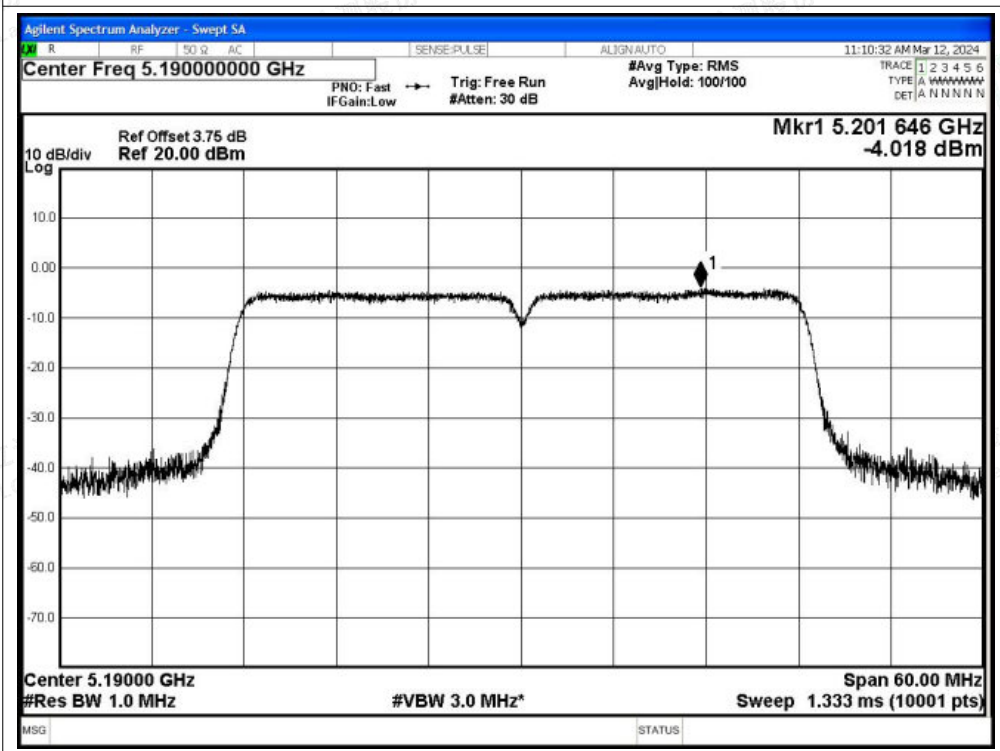




PSD NVNT ac20 5240MHz Ant2

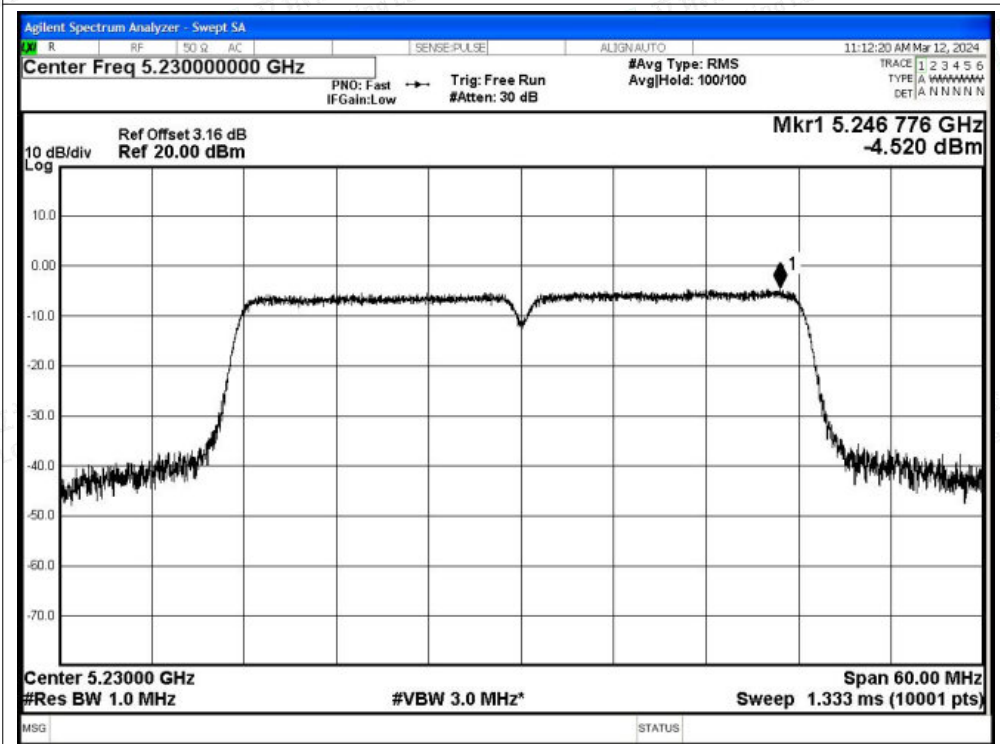


PSD NVNT ac40 5190MHz Ant2

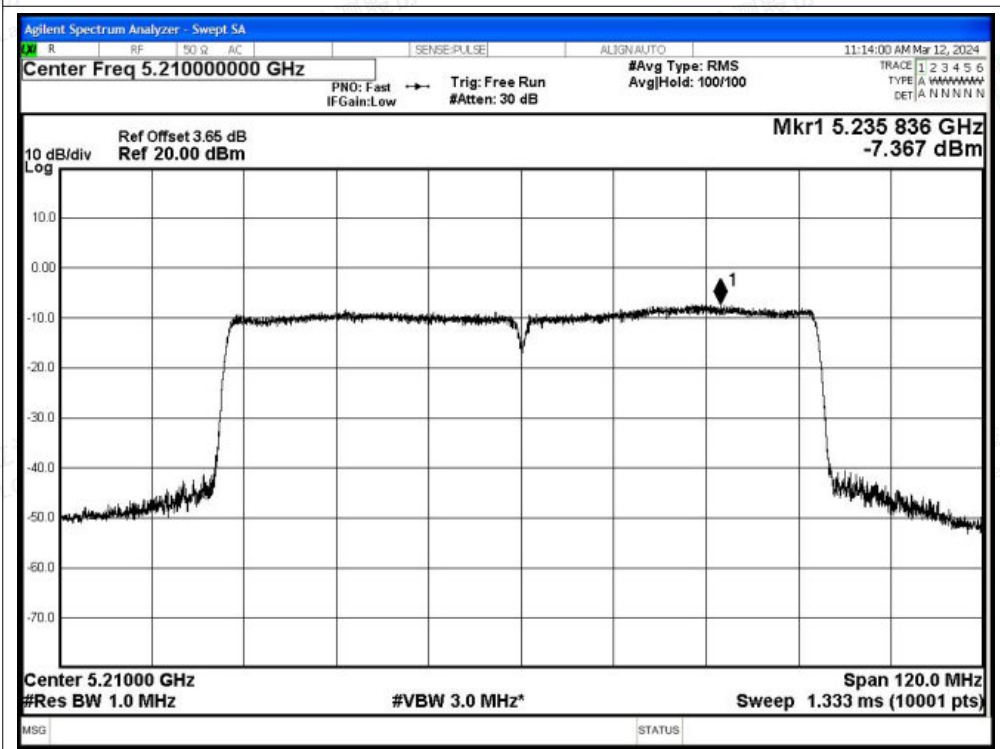




PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant2





D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-49.23	5.81	-	51.84	Peak	68.2	Pass
NVNT	a	5180	4500	-58.01	5.81	0.1	43.16	Average	54	Pass
NVNT	a	5180	5144.7	-39.87	5.81	-	61.2	Peak	68.2	Pass
NVNT	a	5180	5149.6	-50.29	5.81	0.1	50.88	Average	54	Pass
NVNT	a	5180	5150	-40.23	5.81	-	60.84	Peak	68.2	Pass
NVNT	a	5180	5150	-49.38	5.81	0.1	51.79	Average	54	Pass
NVNT	a	5240	5350	-47.49	5.81	-	53.58	Peak	68.2	Pass
NVNT	a	5240	5350	-56.77	5.81	0.1	44.4	Average	54	Pass
NVNT	a	5240	5352	-46.63	5.81	-	54.44	Peak	68.2	Pass
NVNT	a	5240	5351.52	-56.41	5.81	0.1	44.76	Average	54	Pass
NVNT	a	5240	5460	-50.31	5.81	-	50.76	Peak	68.2	Pass
NVNT	a	5240	5460	-58.3	5.81	0.1	42.87	Average	54	Pass
NVNT	n20mimo	5180	4500	-51.01	8.82	-	53.07	Peak	68.2	Pass
NVNT	n20mimo	5180	4500	-58.4	8.82	0.12	45.8	Average	54	Pass
NVNT	n20mimo	5180	5148.9	-36.88	8.82	-	67.2	Peak	68.2	Pass
NVNT	n20mimo	5180	5149.6	-49.31	8.82	0.12	54.89	Average	54	Pass
NVNT	n20mimo	5180	5150	-39.47	8.82	-	64.61	Peak	68.2	Pass
NVNT	n20mimo	5180	5150	-48.91	8.82	0.12	55.29	Average	54	Pass
NVNT	n20mimo	5240	5350	-48.21	8.82	-	55.87	Peak	68.2	Pass
NVNT	n20mimo	5240	5350	-56.59	8.82	0.12	47.61	Average	54	Pass
NVNT	n20mimo	5240	5371.92	-46.92	8.82	-	57.16	Peak	68.2	Pass
NVNT	n20mimo	5240	5351.52	-56.51	8.82	0.12	47.69	Average	54	Pass
NVNT	n20mimo	5240	5460	-50.96	8.82	-	53.12	Peak	68.2	Pass
NVNT	n20mimo	5240	5460	-57.68	8.82	0.12	46.52	Average	54	Pass
NVNT	n40mimo	5190	4500	-49.58	8.82	-	54.5	Peak	68.2	Pass
NVNT	n40mimo	5190	4500	-58.21	8.82	0.24	46.11	Average	54	Pass
NVNT	n40mimo	5190	5149.7	-36.77	8.82	-	67.31	Peak	68.2	Pass
NVNT	n40mimo	5190	5148.97	-49.46	8.82	0.24	54.86	Average	54	Pass
NVNT	n40mimo	5190	5150	-36.77	8.82	-	67.31	Peak	68.2	Pass
NVNT	n40mimo	5190	5150	-49.83	8.82	0.24	54.49	Average	54	Pass
NVNT	n40mimo	5230	5350	-50.75	8.82	-	53.33	Peak	68.2	Pass
NVNT	n40mimo	5230	5350	-58.52	8.82	0.23	45.79	Average	54	Pass
NVNT	n40mimo	5230	5388.18	-47.18	8.82	-	56.9	Peak	68.2	Pass
NVNT	n40mimo	5230	5445.96	-57.35	8.82	0.23	46.96	Average	54	Pass
NVNT	n40mimo	5230	5460	-49.54	8.82	-	54.54	Peak	68.2	Pass
NVNT	n40mimo	5230	5460	-57.87	8.82	0.23	46.44	Average	54	Pass



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NVNT	ac20mimo	5180	4500	-50.26	8.82	-	53.82	Peak	68.2	Pass
NVNT	ac20mimo	5180	4500	-58.51	8.82	0.12	45.69	Average	54	Pass
NVNT	ac20mimo	5180	5146.1	-37.42	8.82	-	66.66	Peak	68.2	Pass
NVNT	ac20mimo	5180	5149.6	-48.89	8.82	0.12	55.31	Average	54	Pass
NVNT	ac20mimo	5180	5150	-37.75	8.82	-	66.33	Peak	68.2	Pass
NVNT	ac20mimo	5180	5150	-48.98	8.82	0.12	55.22	Average	54	Pass
NVNT	ac20mimo	5240	5350	-49.05	8.82	-	55.03	Peak	68.2	Pass
NVNT	ac20mimo	5240	5350	-57.25	8.82	0.12	46.95	Average	54	Pass
NVNT	ac20mimo	5240	5435.52	-47.44	8.82	-	56.64	Peak	68.2	Pass
NVNT	ac20mimo	5240	5351.28	-56.52	8.82	0.12	47.68	Average	54	Pass
NVNT	ac20mimo	5240	5460	-50.12	8.82	-	53.96	Peak	68.2	Pass
NVNT	ac20mimo	5240	5460	-58.34	8.82	0.12	45.86	Average	54	Pass
NVNT	ac40mimo	5190	4500	-49.23	8.82	-	54.85	Peak	68.2	Pass
NVNT	ac40mimo	5190	4500	-58.01	8.82	0.24	46.31	Average	54	Pass
NVNT	ac40mimo	5190	5148.24	-37.86	8.82	-	66.22	Peak	68.2	Pass
NVNT	ac40mimo	5190	5149.7	-49.85	8.82	0.24	54.47	Average	54	Pass
NVNT	ac40mimo	5190	5150	-39.21	8.82	-	64.87	Peak	68.2	Pass
NVNT	ac40mimo	5190	5150	-49.85	8.82	0.24	54.47	Average	54	Pass
NVNT	ac40mimo	5230	5350	-50.39	8.82	-	53.69	Peak	68.2	Pass
NVNT	ac40mimo	5230	5350	-57.47	8.82	0.24	46.85	Average	54	Pass
NVNT	ac40mimo	5230	5378.46	-47.67	8.82	-	56.41	Peak	68.2	Pass
NVNT	ac40mimo	5230	5384.13	-57.09	8.82	0.24	47.23	Average	54	Pass
NVNT	ac40mimo	5230	5460	-49.73	8.82	-	54.35	Peak	68.2	Pass
NVNT	ac40mimo	5230	5460	-57.6	8.82	0.24	46.72	Average	54	Pass
NVNT	ac80mimo	5210	5350	-48.71	8.82	-	55.37	Peak	68.2	Pass
NVNT	ac80mimo	5210	5350	-56.42	8.82	0.47	48.13	Average	54	Pass
NVNT	ac80mimo	5210	5364.96	-45.83	8.82	-	58.25	Peak	68.2	Pass
NVNT	ac80mimo	5210	5359.02	-56.08	8.82	0.47	48.47	Average	54	Pass
NVNT	ac80mimo	5210	5460	-47.27	8.82	-	56.81	Peak	68.2	Pass
NVNT	ac80mimo	5210	5460	-57.49	8.82	0.47	47.06	Average	54	Pass
NVNT	ac80mimo	5210	4500	-50.72	8.82	-	53.36	Peak	68.2	Pass
NVNT	ac80mimo	5210	4500	-58.55	8.82	0.47	46	Average	54	Pass
NVNT	ac80mimo	5210	5139.11	-36.86	8.82	-	67.22	Peak	68.2	Pass
NVNT	ac80mimo	5210	5149.38	-48.5	8.82	0.47	56.05	Average	54	Pass
NVNT	ac80mimo	5210	5150	-41.53	8.82	-	62.55	Peak	68.2	Pass
NVNT	ac80mimo	5210	5150	-49.18	8.82	0.47	55.37	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.

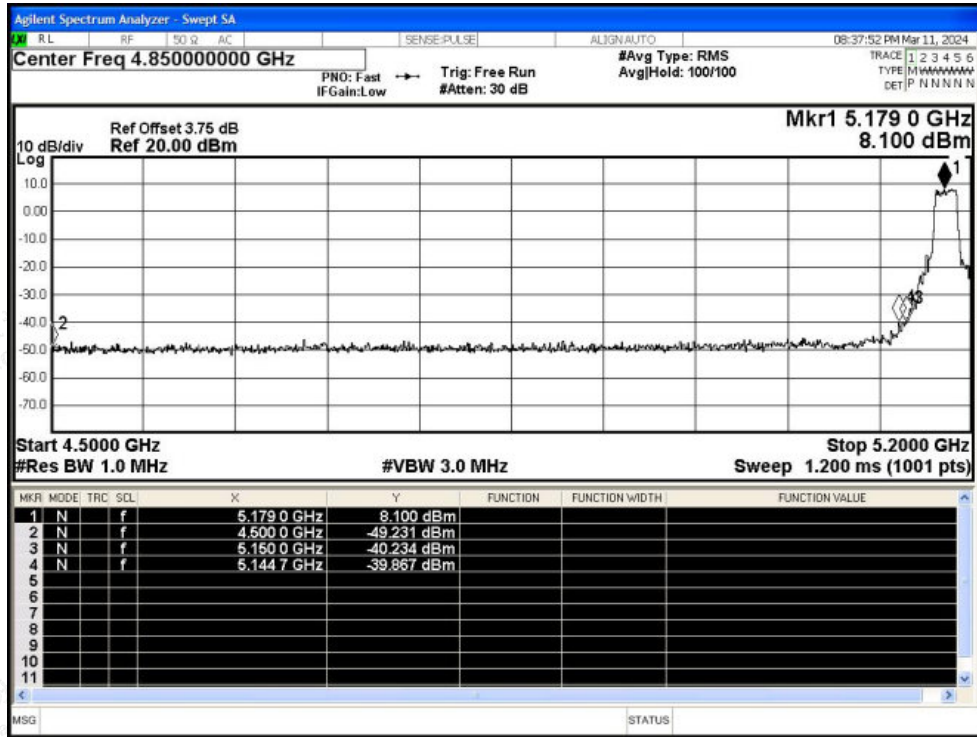


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 Scan code to check authenticity

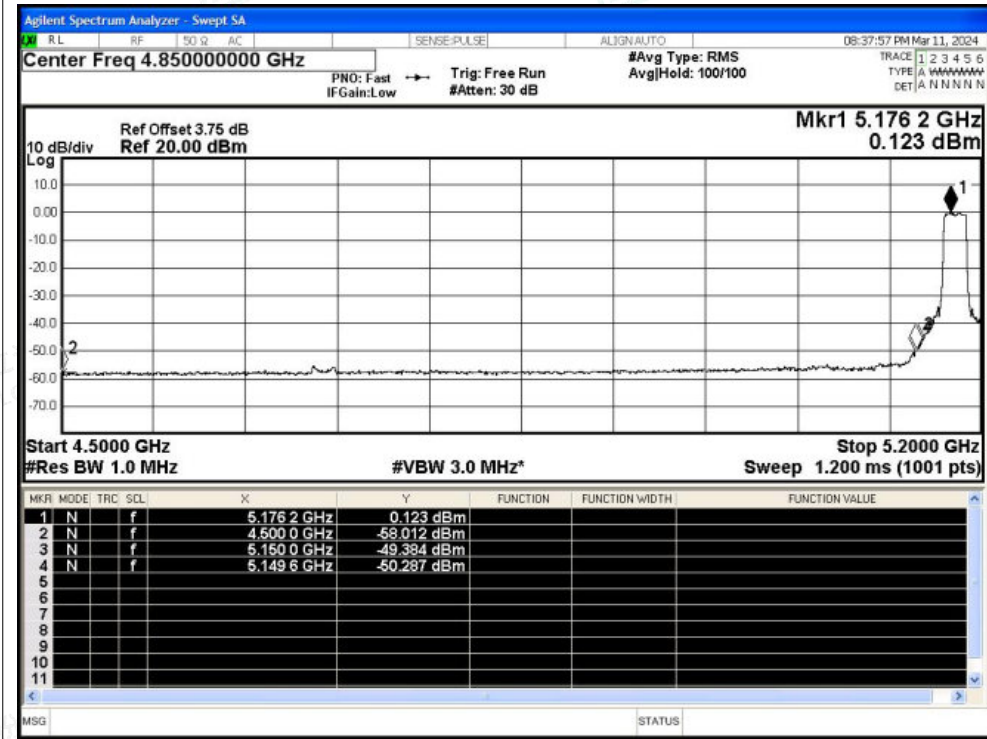


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

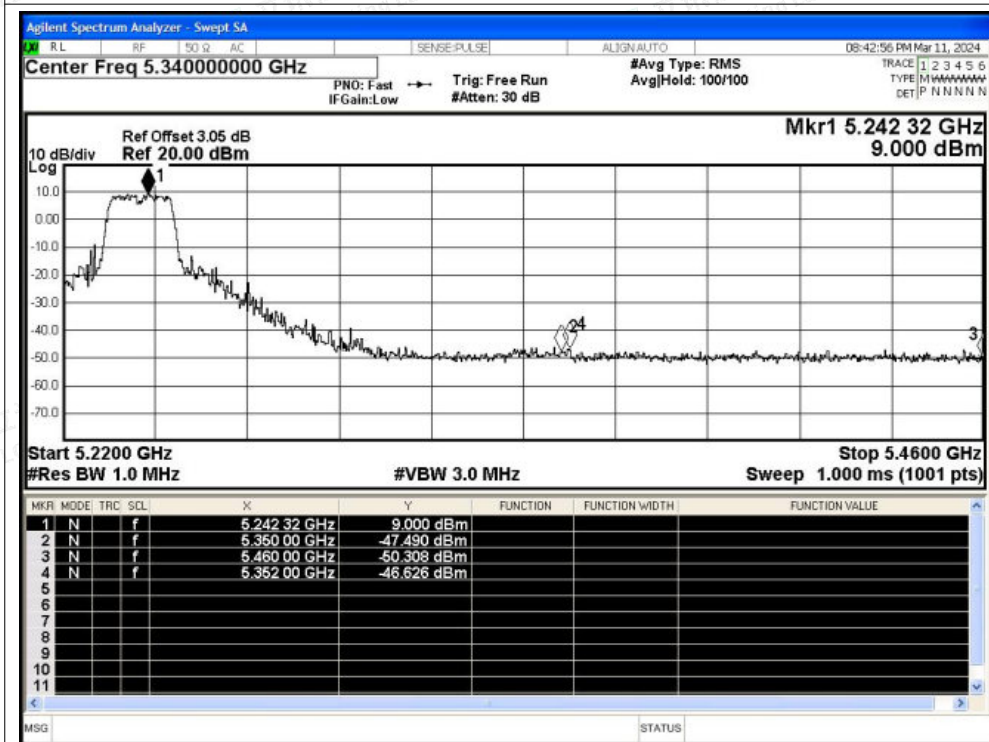


Restrict Band NVNT a 5180MHz Ant1 Average

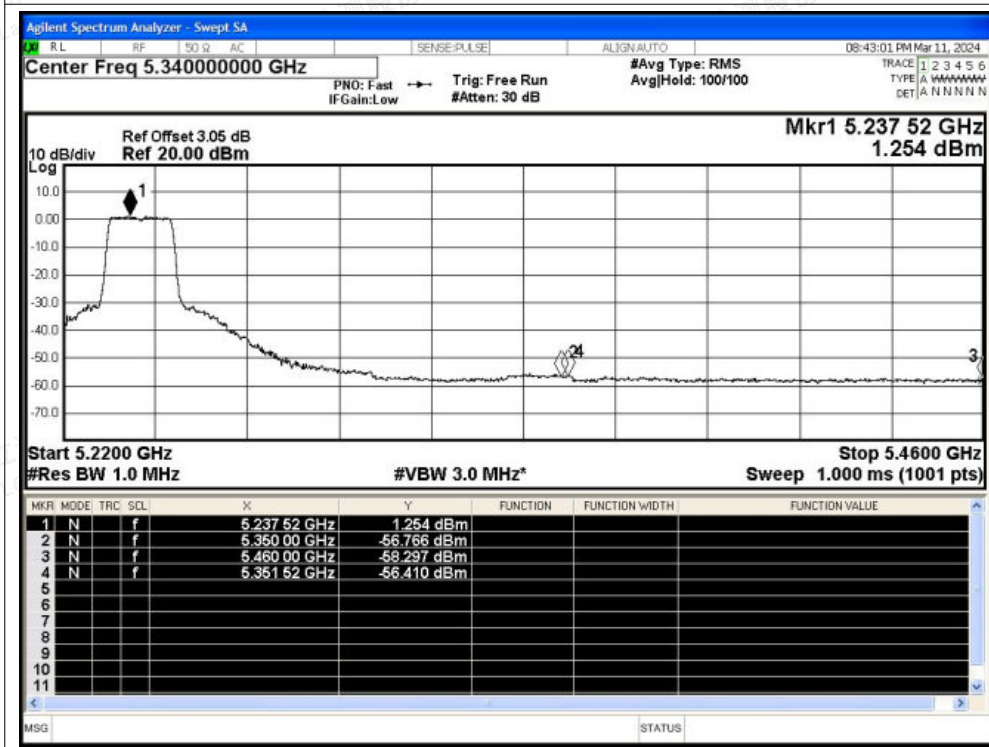




Restrict Band NVNT a 5240MHz Ant1 Peak

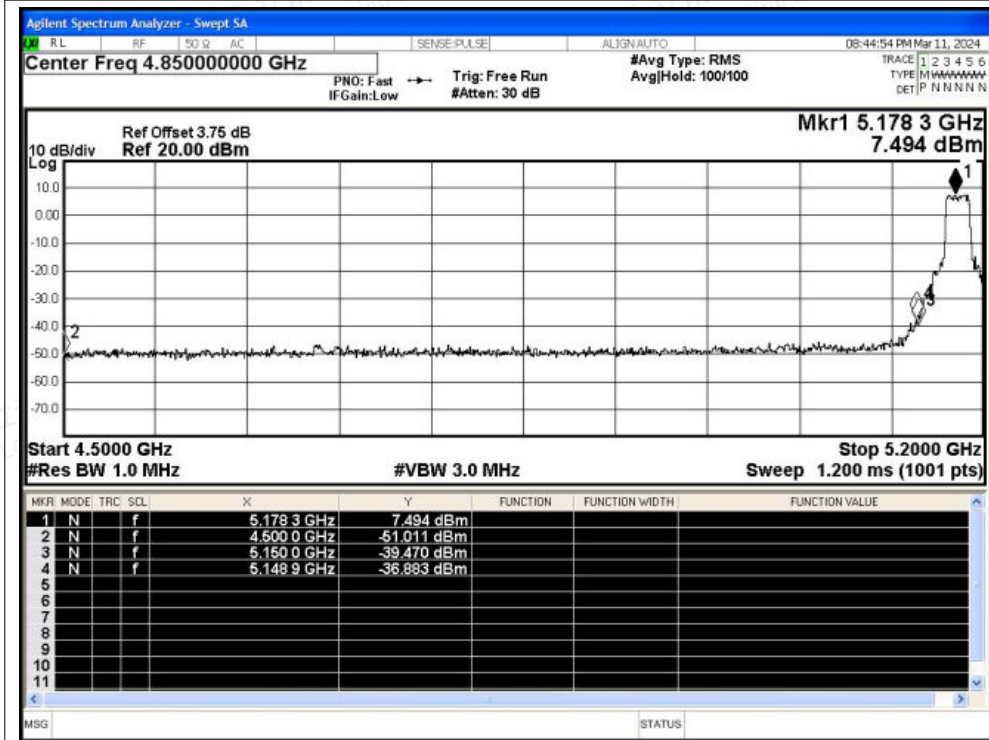


Restrict Band NVNT a 5240MHz Ant1 Average





Restrict Band NVNT n20mimo 5180MHz Peak



Restrict Band NVNT n20mimo 5180MHz Average

