



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Formuler Z12 Pro

Test Model: Z12 Pro

Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

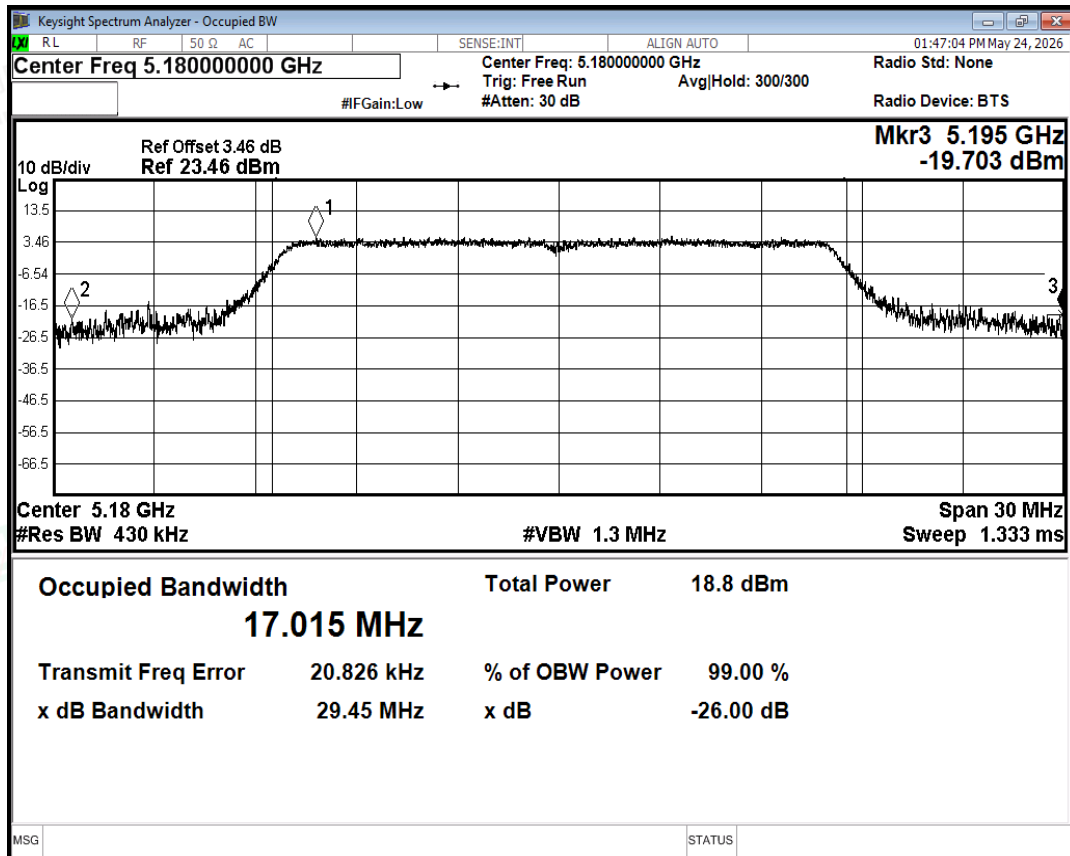




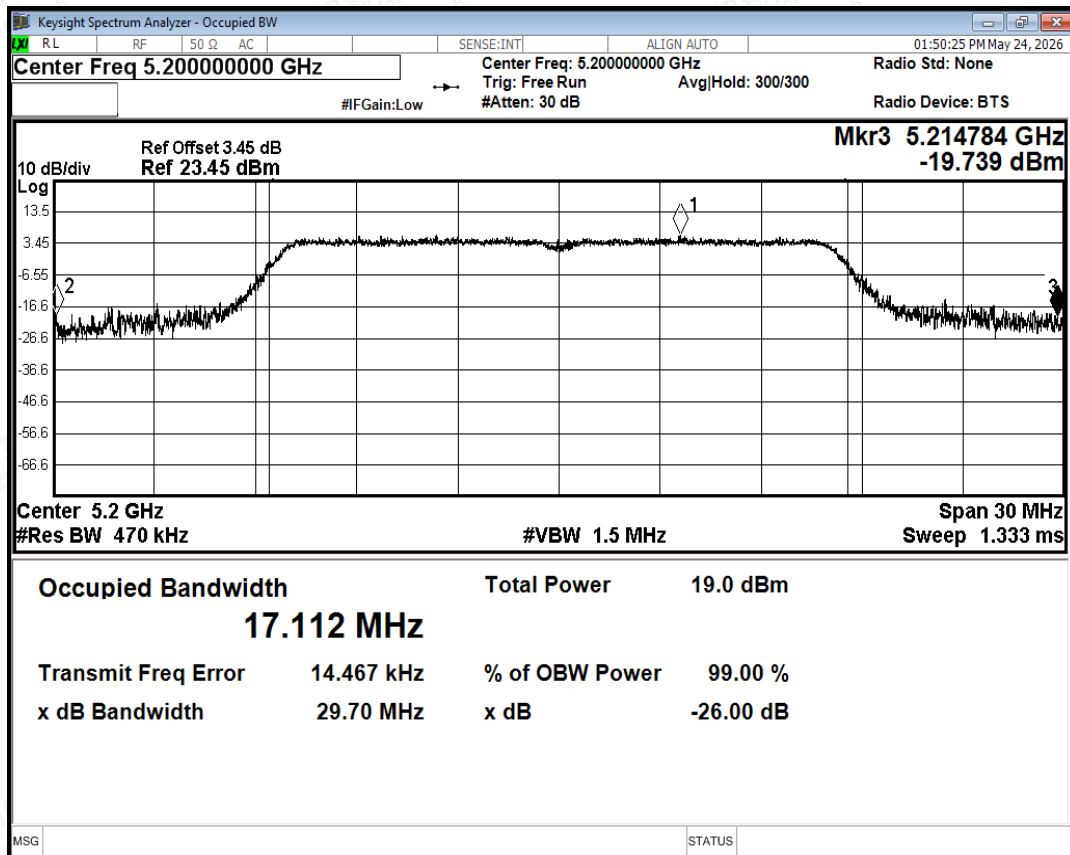
D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	29.45
NVNT	a	5200	Ant1	29.7
NVNT	a	5240	Ant1	29.8
NVNT	n20	5180	Ant1	29.6
NVNT	n20	5200	Ant1	29.04
NVNT	n20	5240	Ant1	28.68
NVNT	n40	5190	Ant1	50.59
NVNT	n40	5230	Ant1	47.94
NVNT	ac20	5180	Ant1	29.38
NVNT	ac20	5200	Ant1	28.97
NVNT	ac20	5240	Ant1	28.92
NVNT	ac40	5190	Ant1	48.12
NVNT	ac40	5230	Ant1	45.59
NVNT	ac80	5210	Ant1	89.18





-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

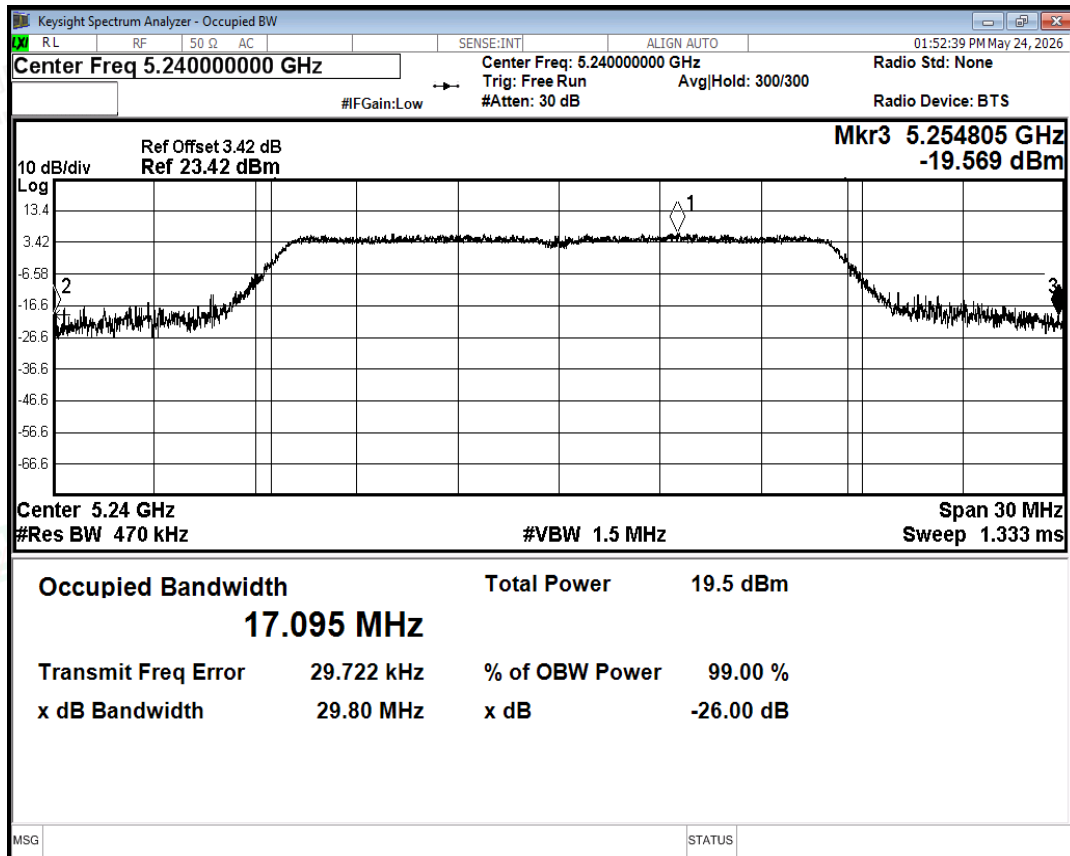


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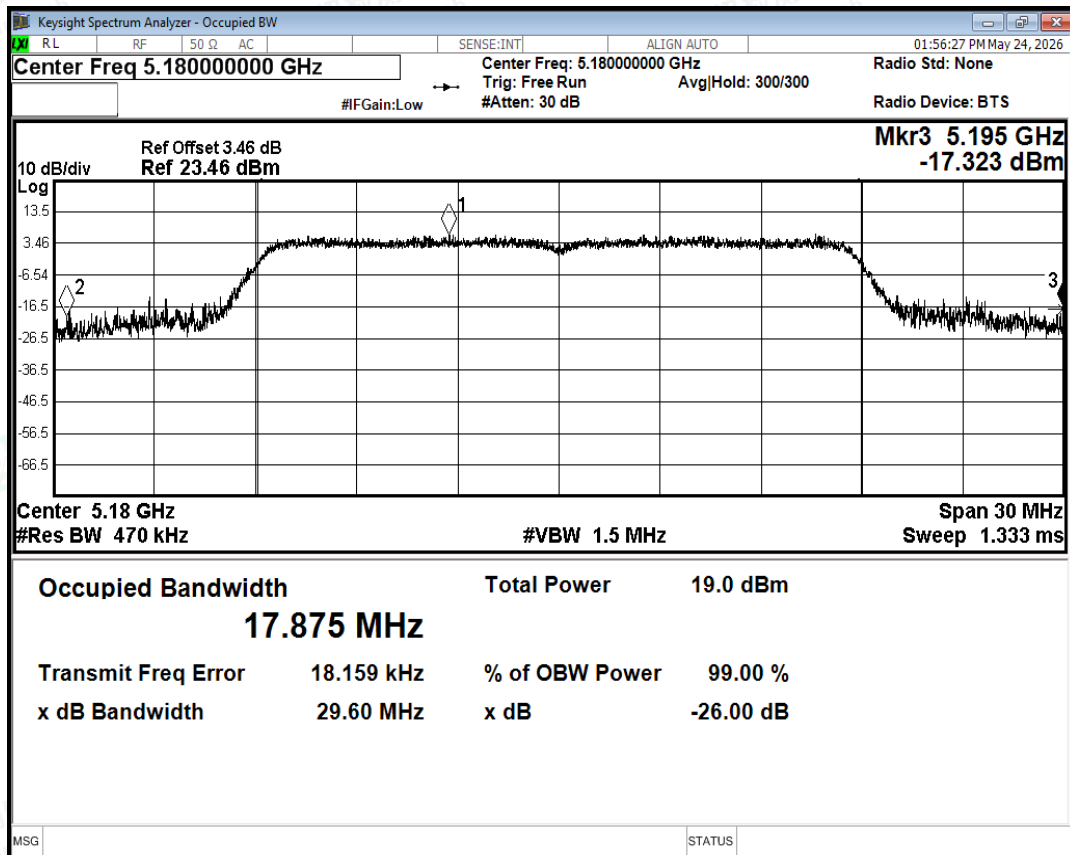
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

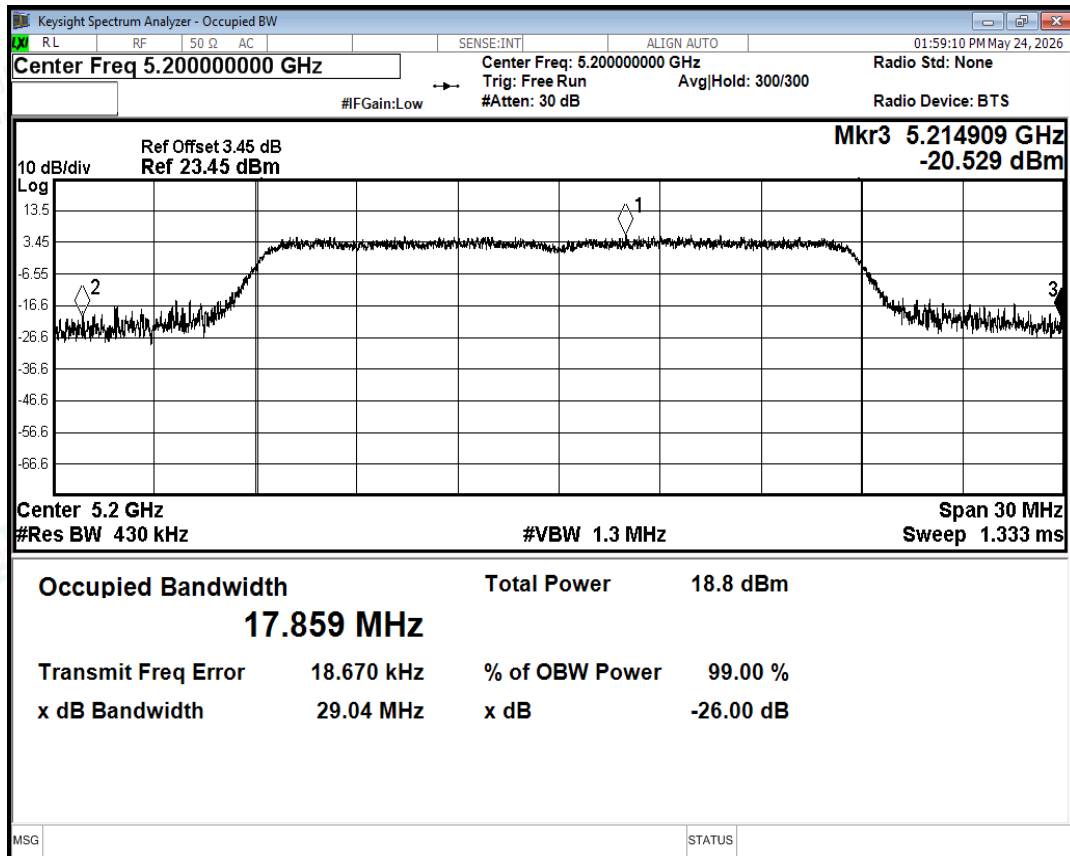


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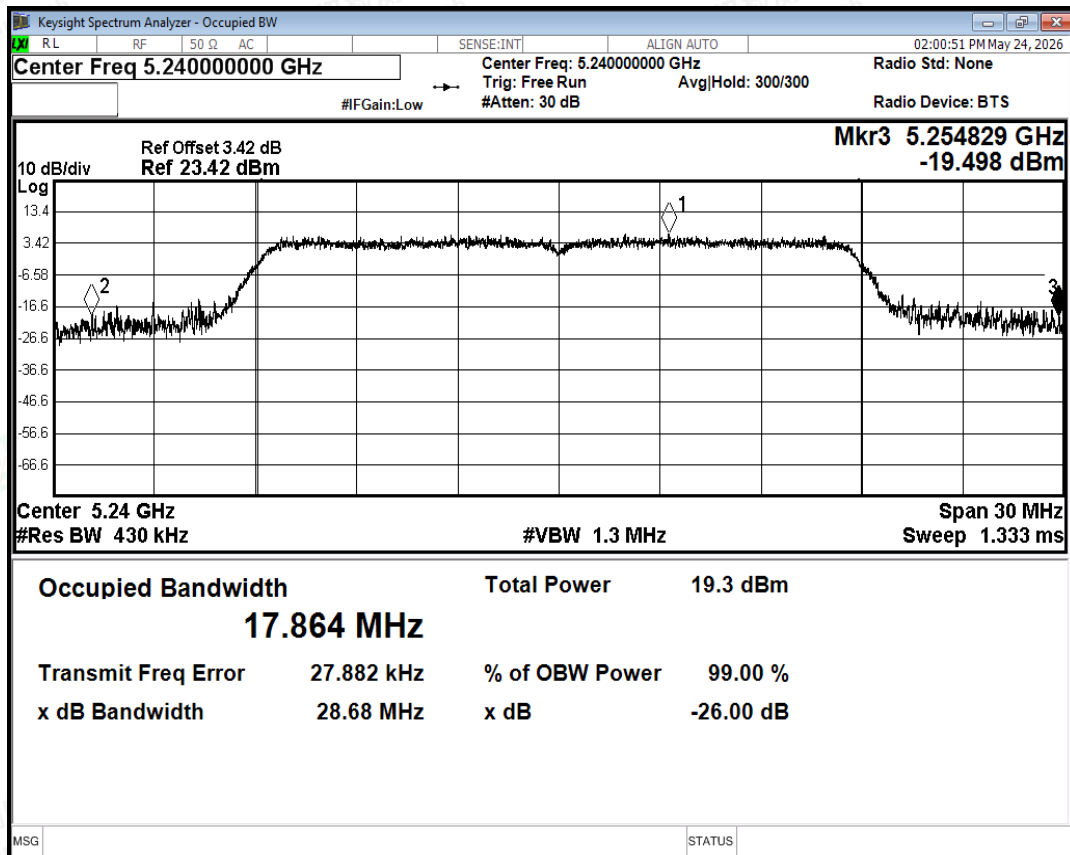
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

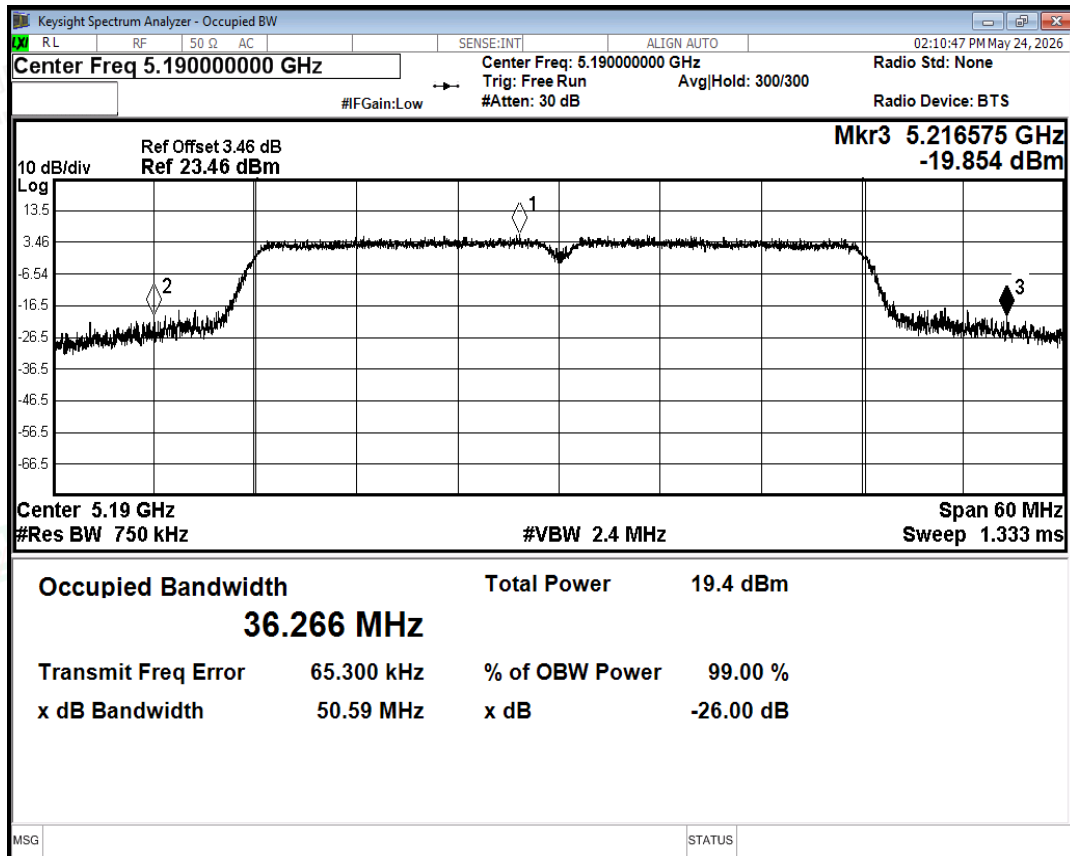


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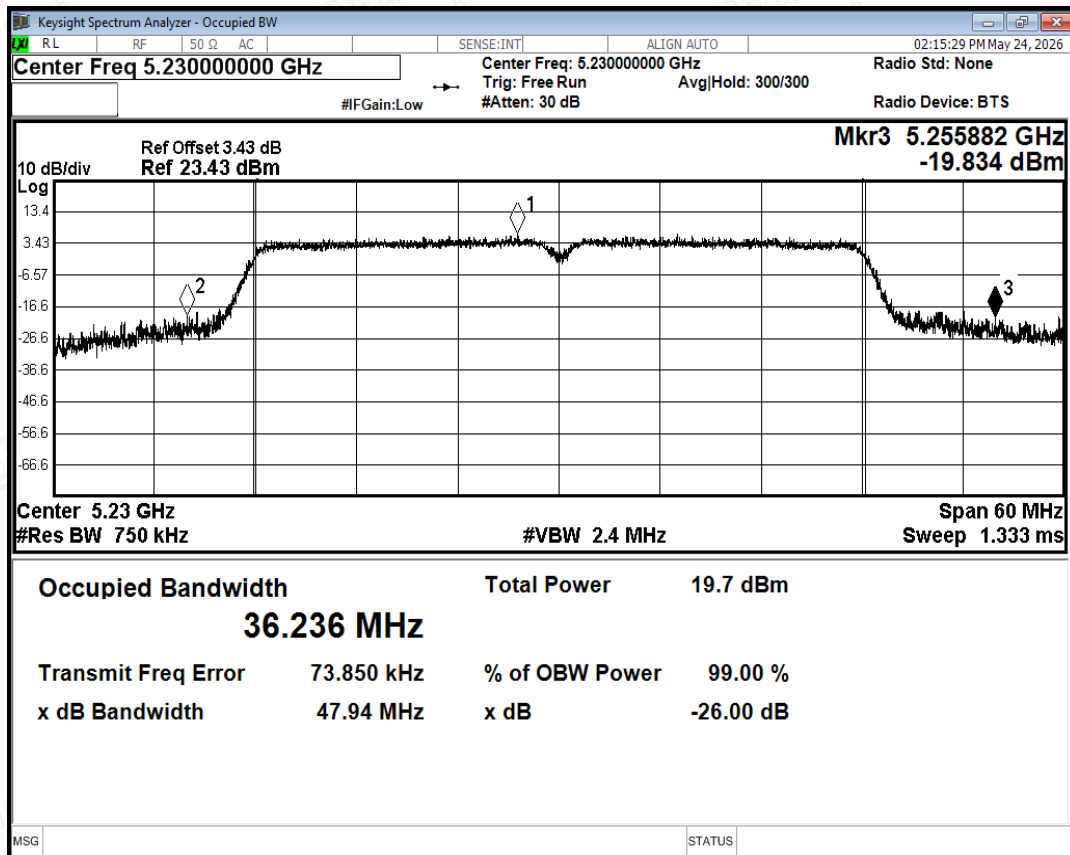
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

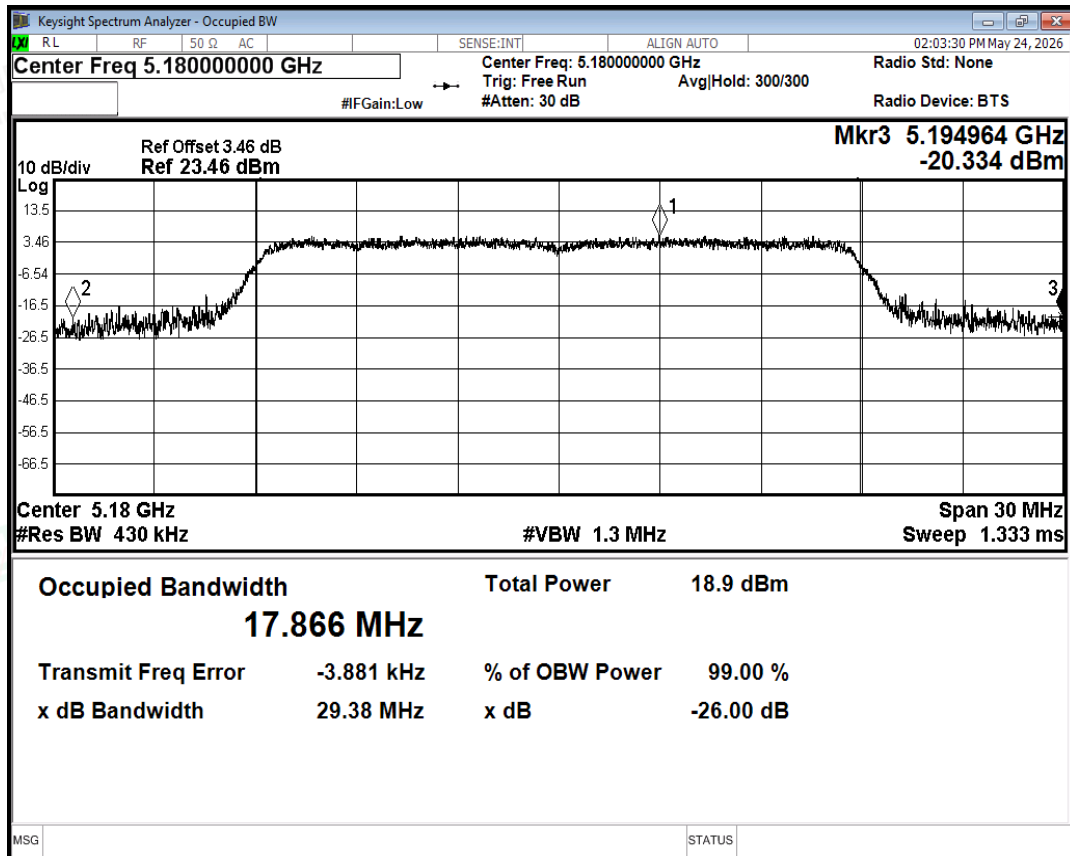


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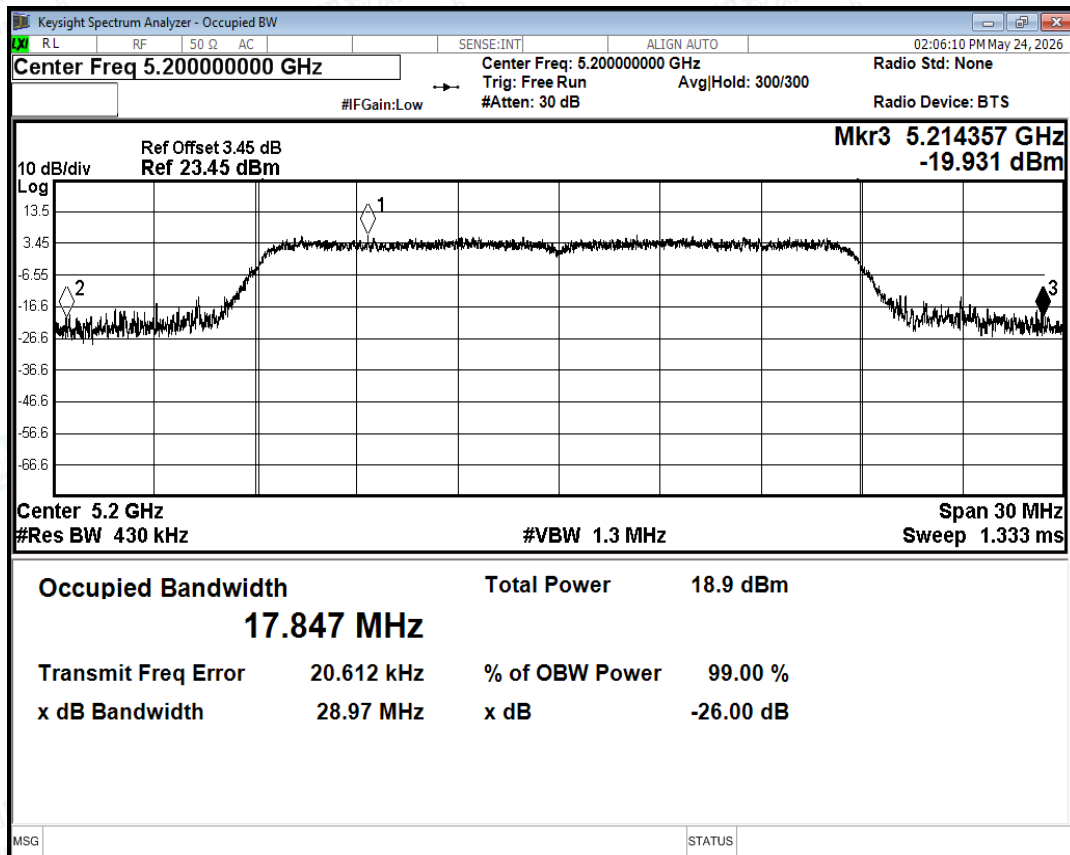
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1

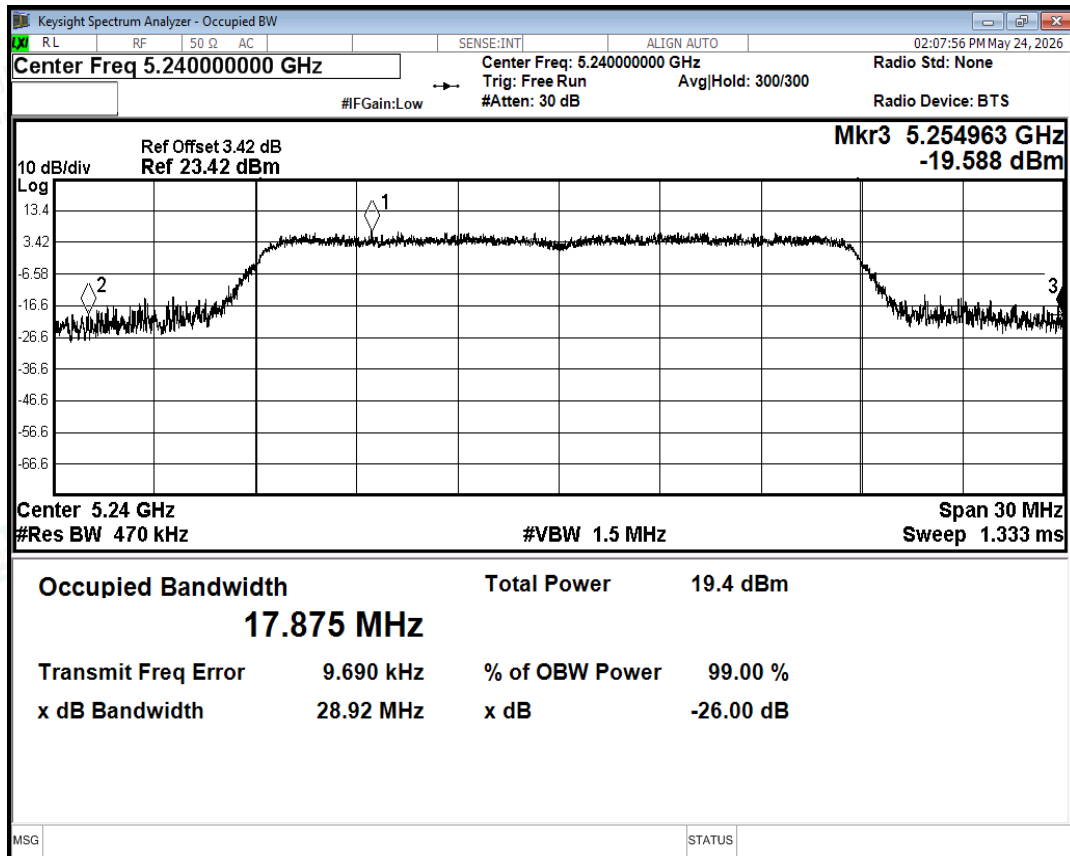


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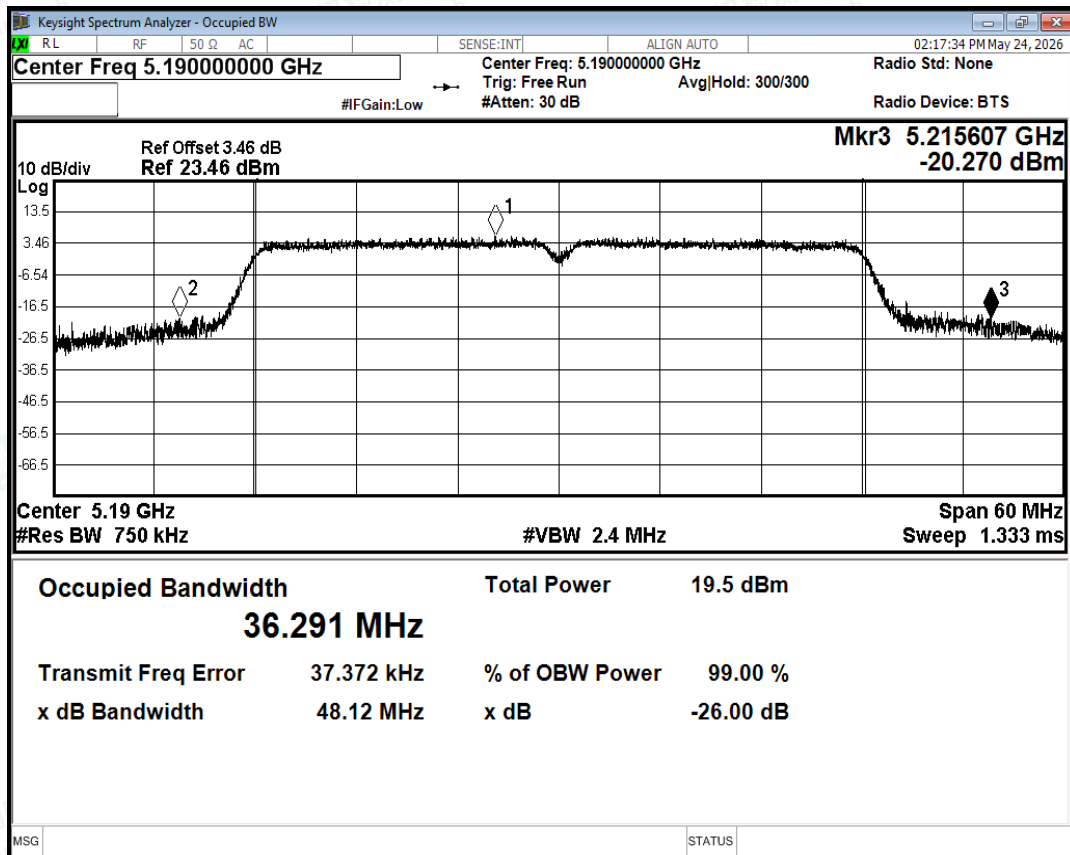
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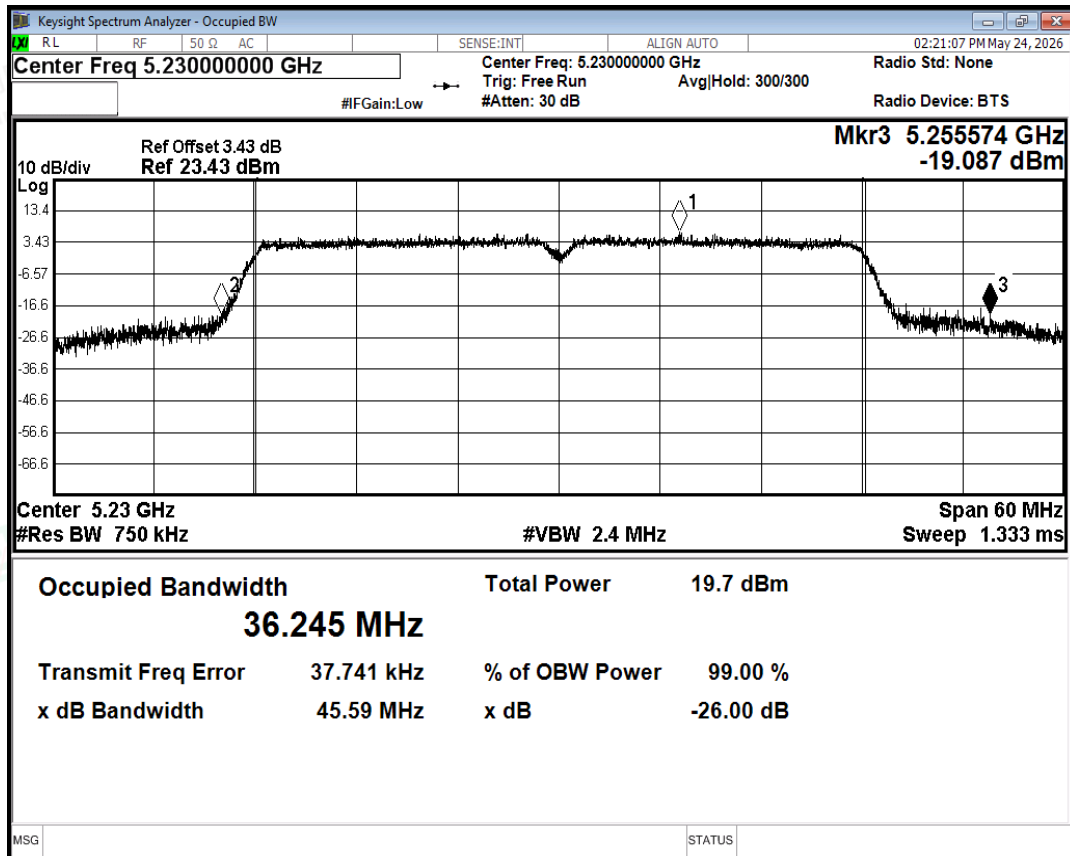


-26dB Bandwidth NVNT ac20 5240MHz Ant1

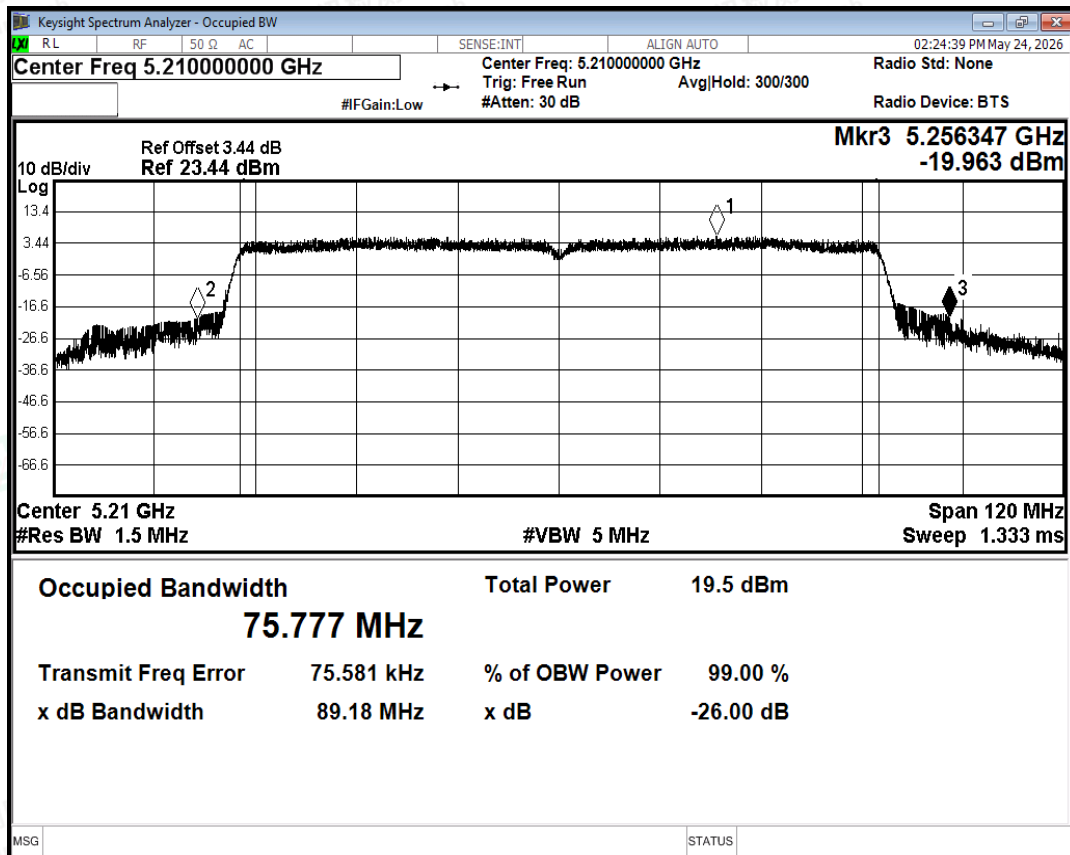


-26dB Bandwidth NVNT ac40 5190MHz Ant1





-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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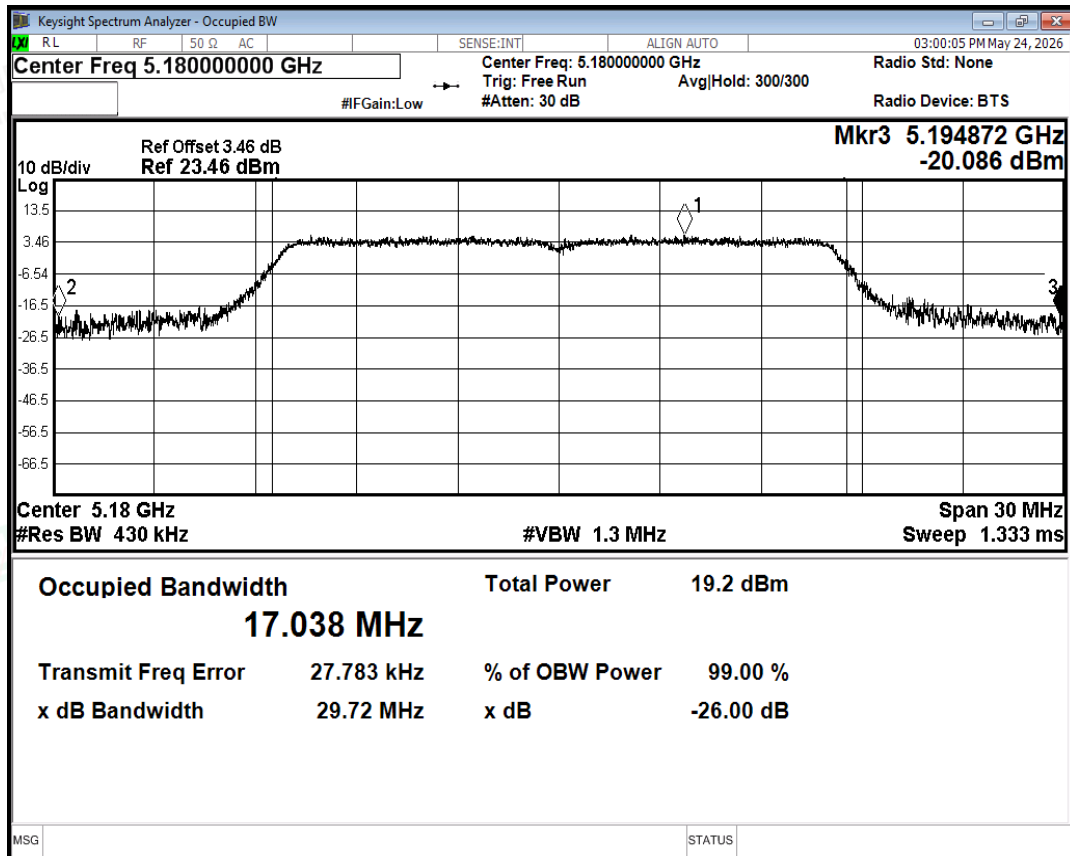
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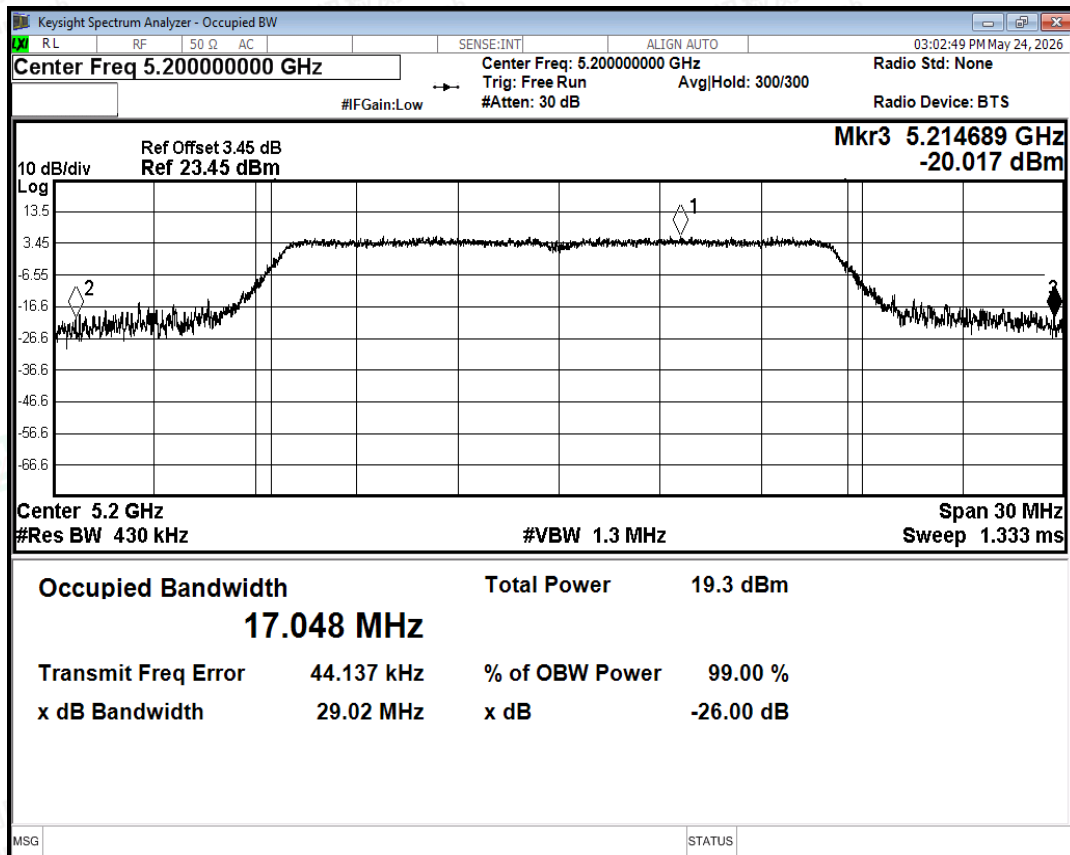


Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant2	29.72
NVNT	a	5200	Ant2	29.02
NVNT	a	5240	Ant2	28.84
NVNT	n20	5180	Ant2	29.48
NVNT	n20	5200	Ant2	29.55
NVNT	n20	5240	Ant2	29.6
NVNT	n40	5190	Ant2	51.18
NVNT	n40	5230	Ant2	50.43
NVNT	ac20	5180	Ant2	29.05
NVNT	ac20	5200	Ant2	28.92
NVNT	ac20	5240	Ant2	29.07
NVNT	ac40	5190	Ant2	48.5
NVNT	ac40	5230	Ant2	48.14
NVNT	ac80	5210	Ant2	96.4





-26dB Bandwidth NVNT a 5180MHz Ant2



-26dB Bandwidth NVNT a 5200MHz Ant2

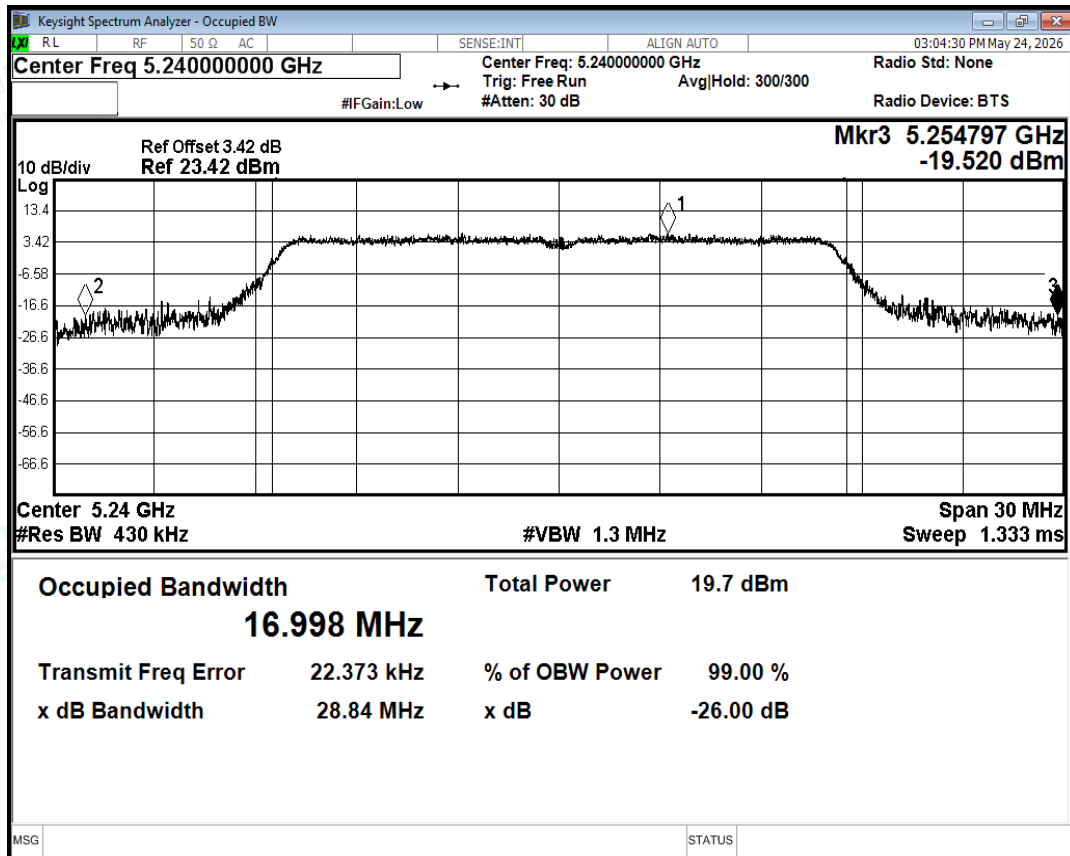


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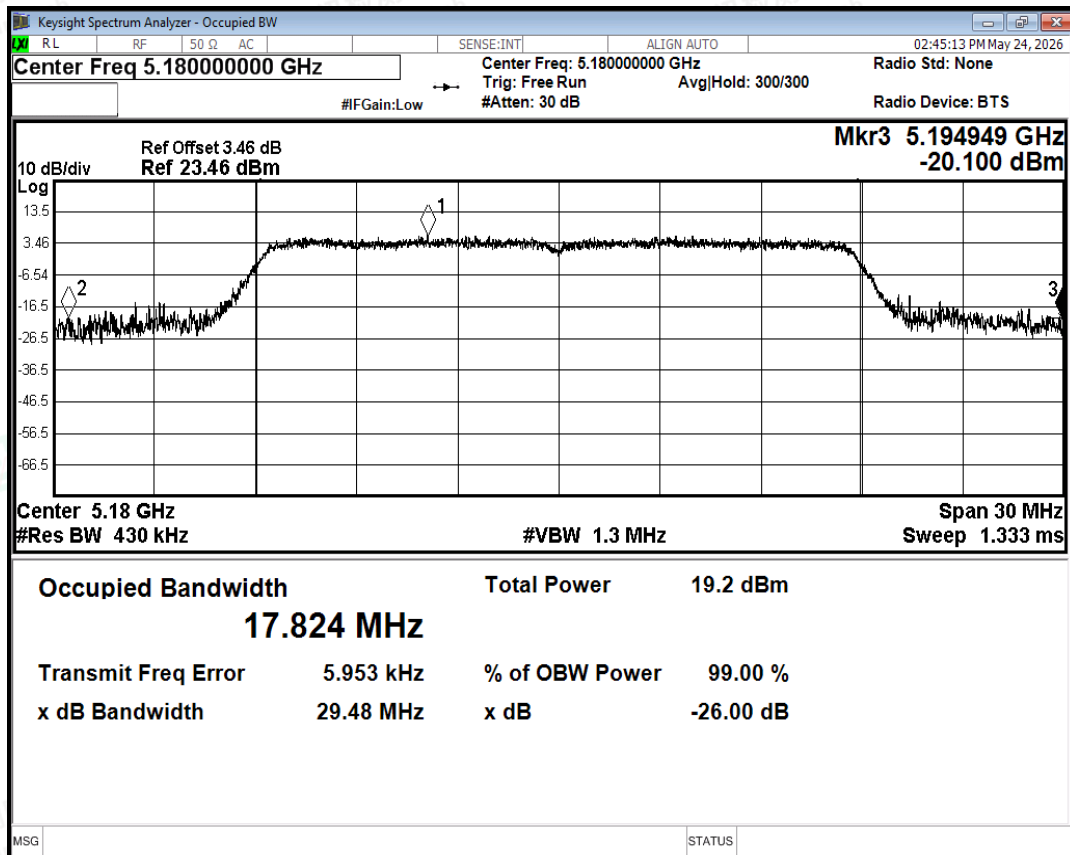
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-26dB Bandwidth NVNT a 5240MHz Ant2



-26dB Bandwidth NVNT n20 5180MHz Ant2

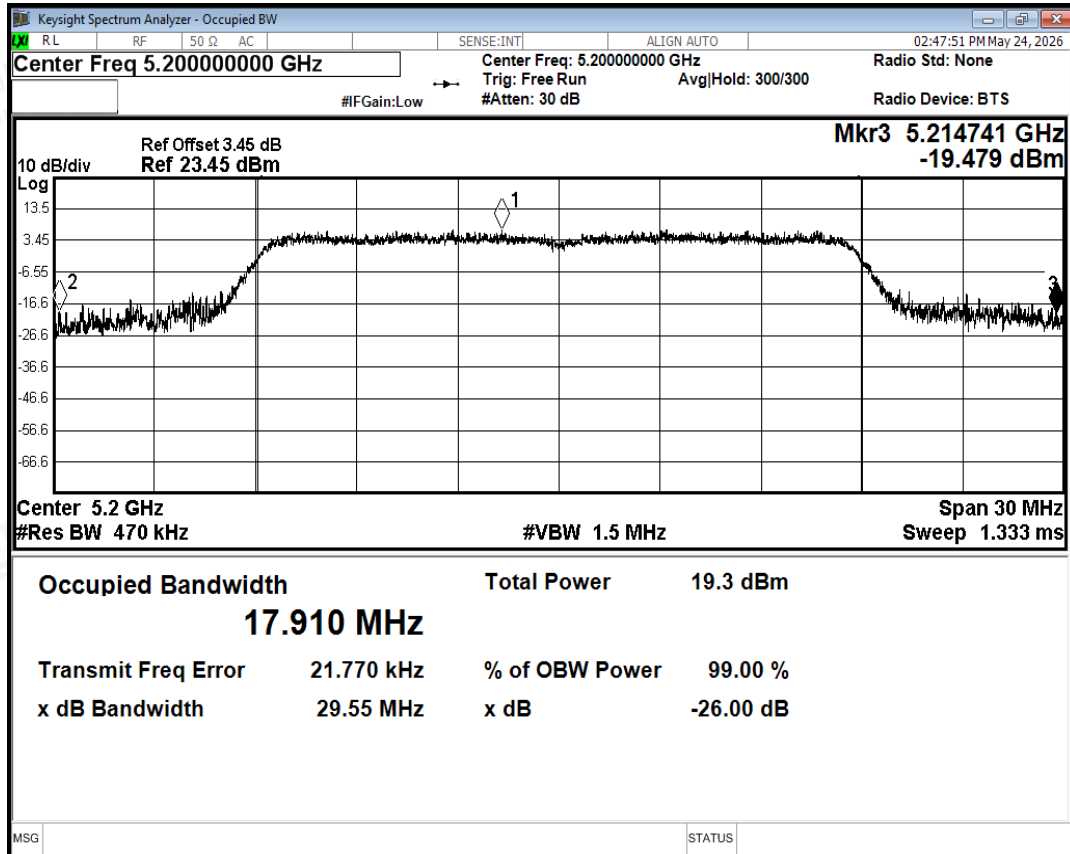


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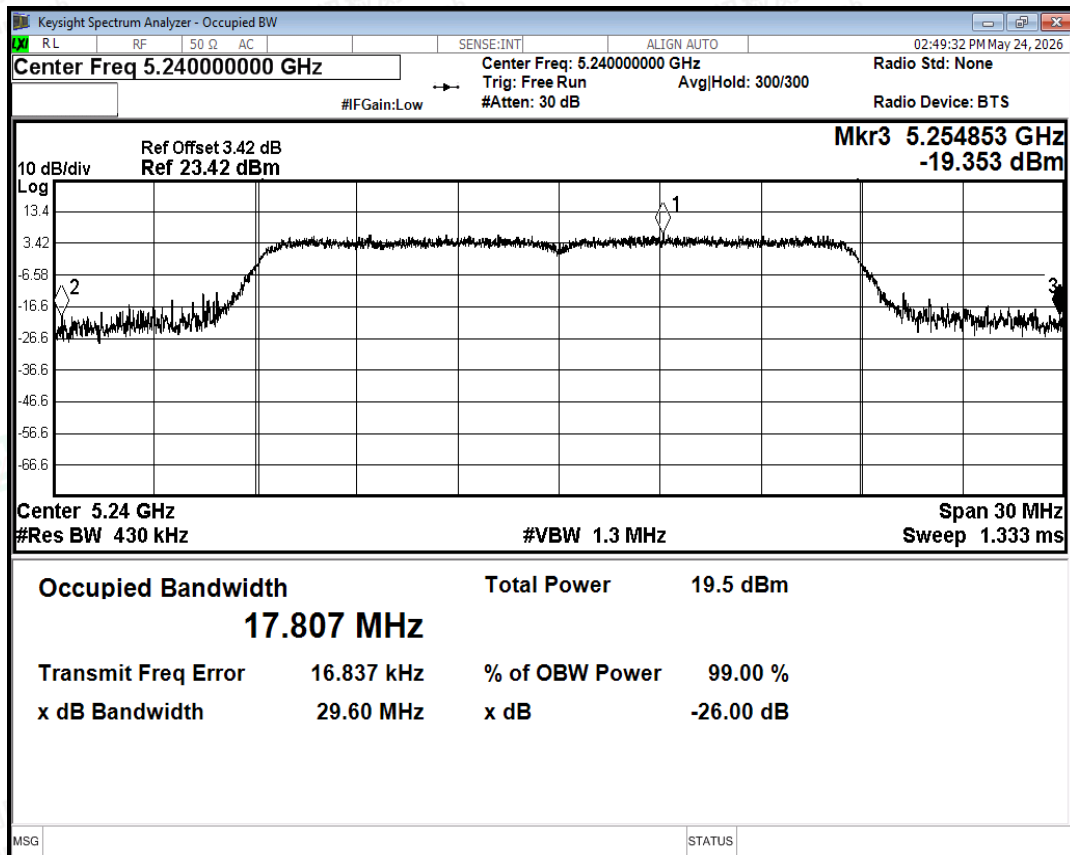
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-26dB Bandwidth NVNT n20 5200MHz Ant2



-26dB Bandwidth NVNT n20 5240MHz Ant2

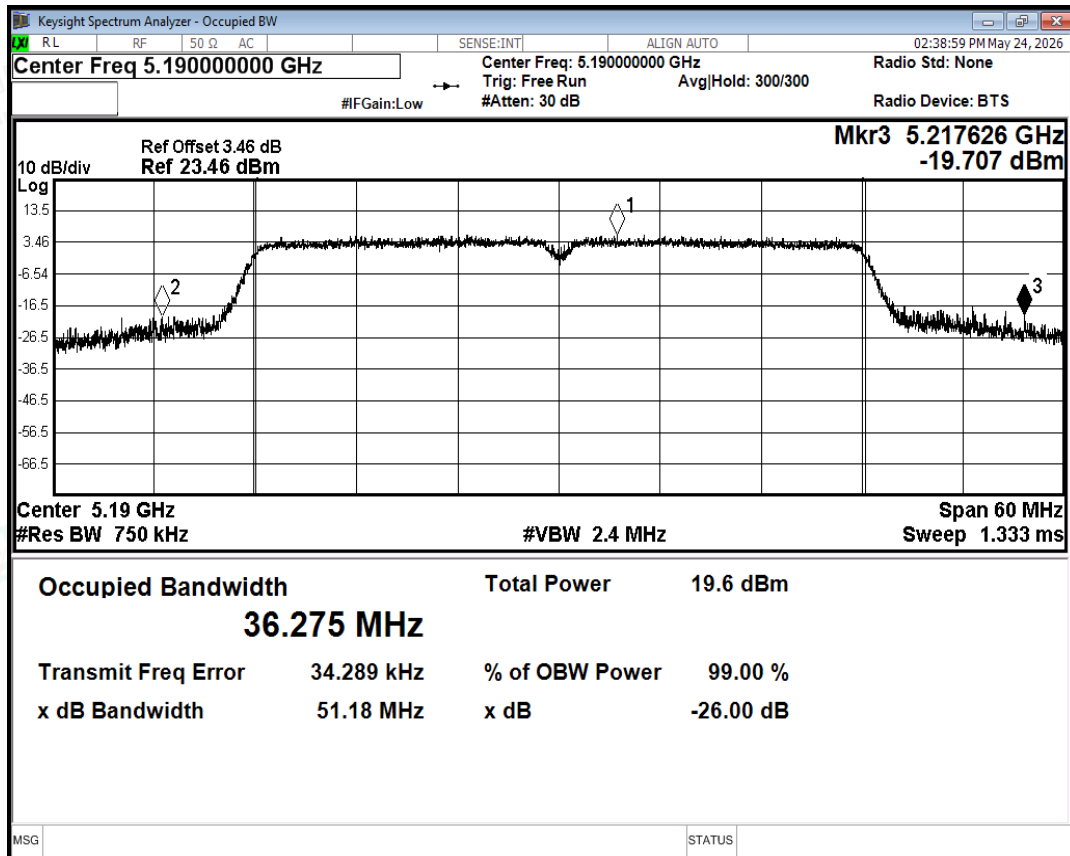


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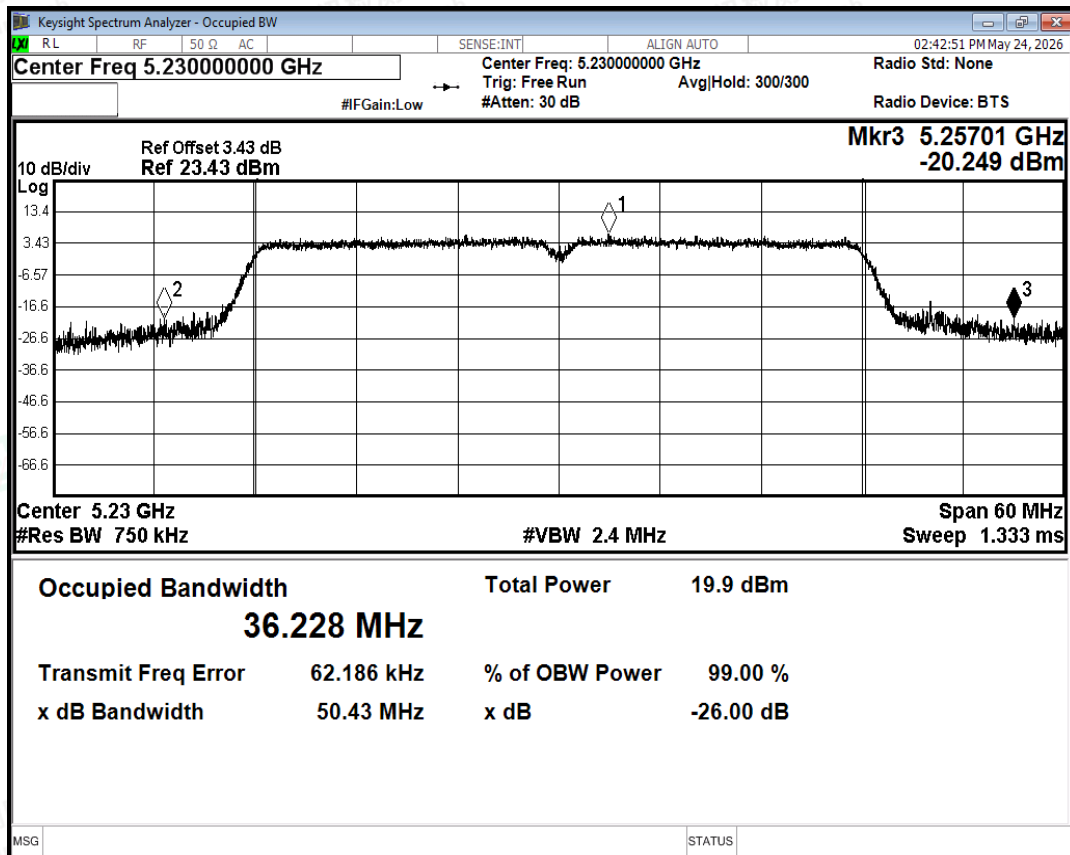
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-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant2

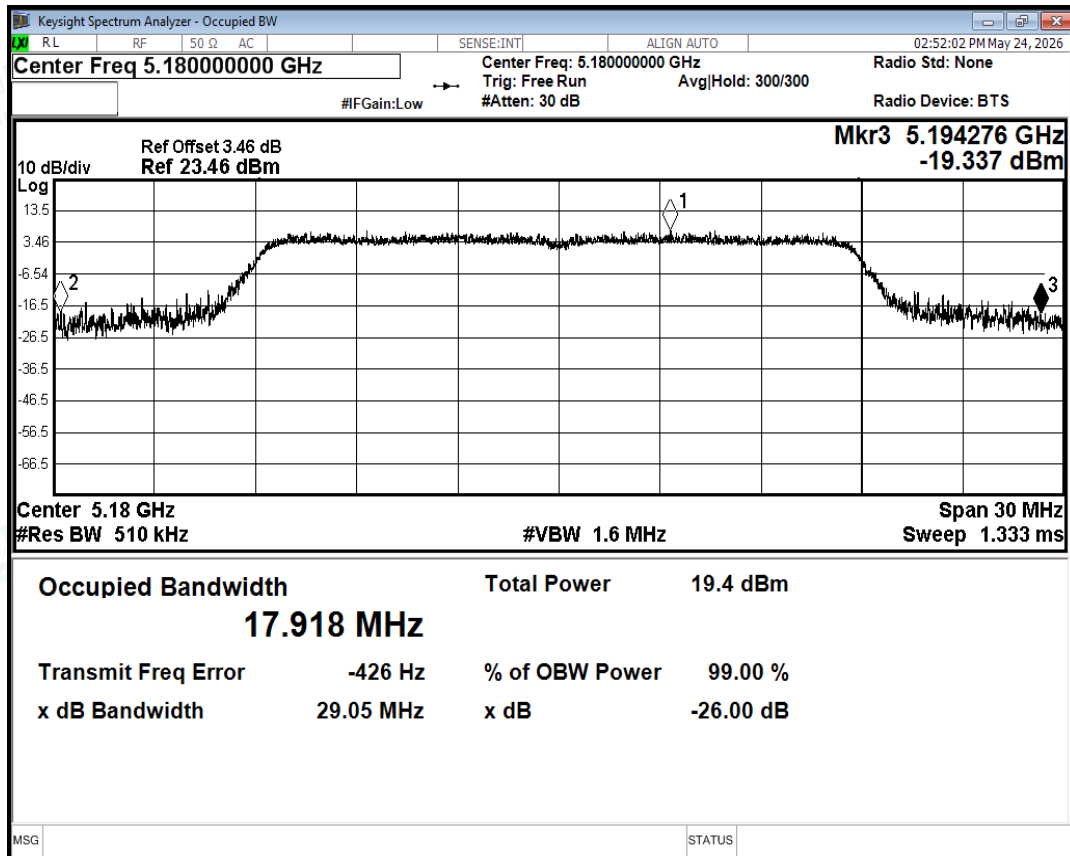


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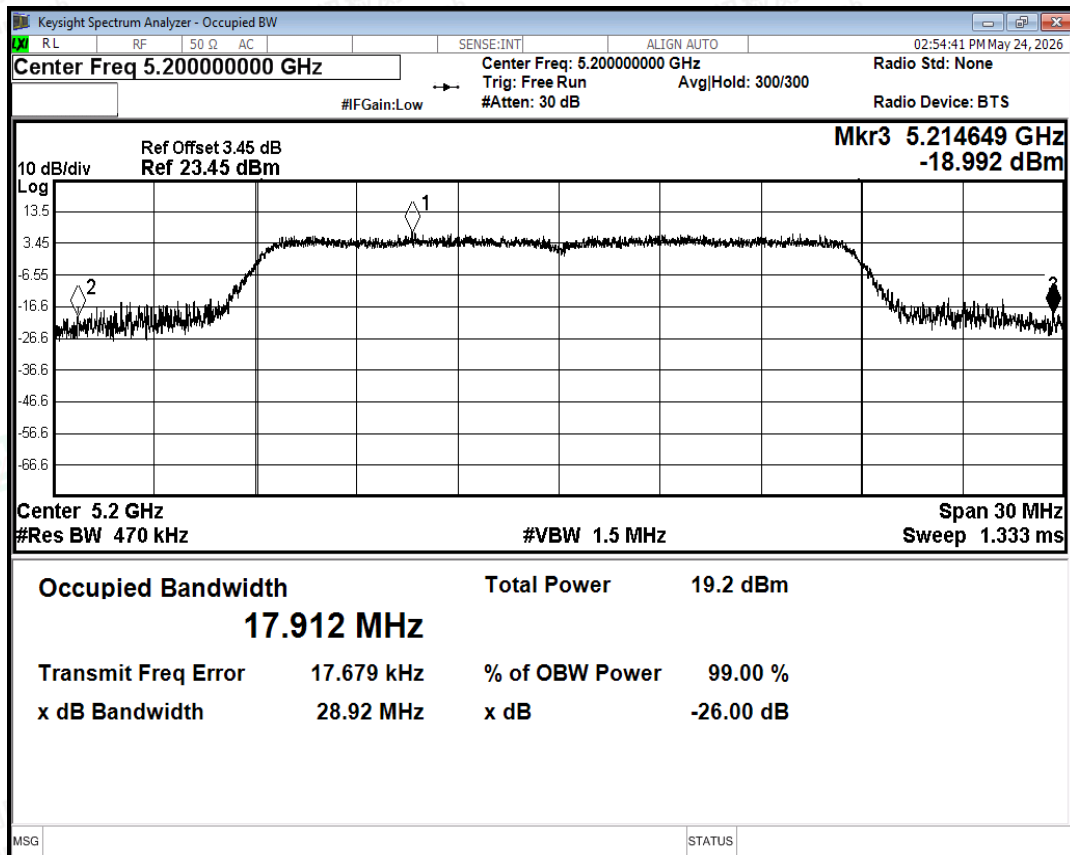
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-26dB Bandwidth NVNT ac20 5180MHz Ant2



-26dB Bandwidth NVNT ac20 5200MHz Ant2

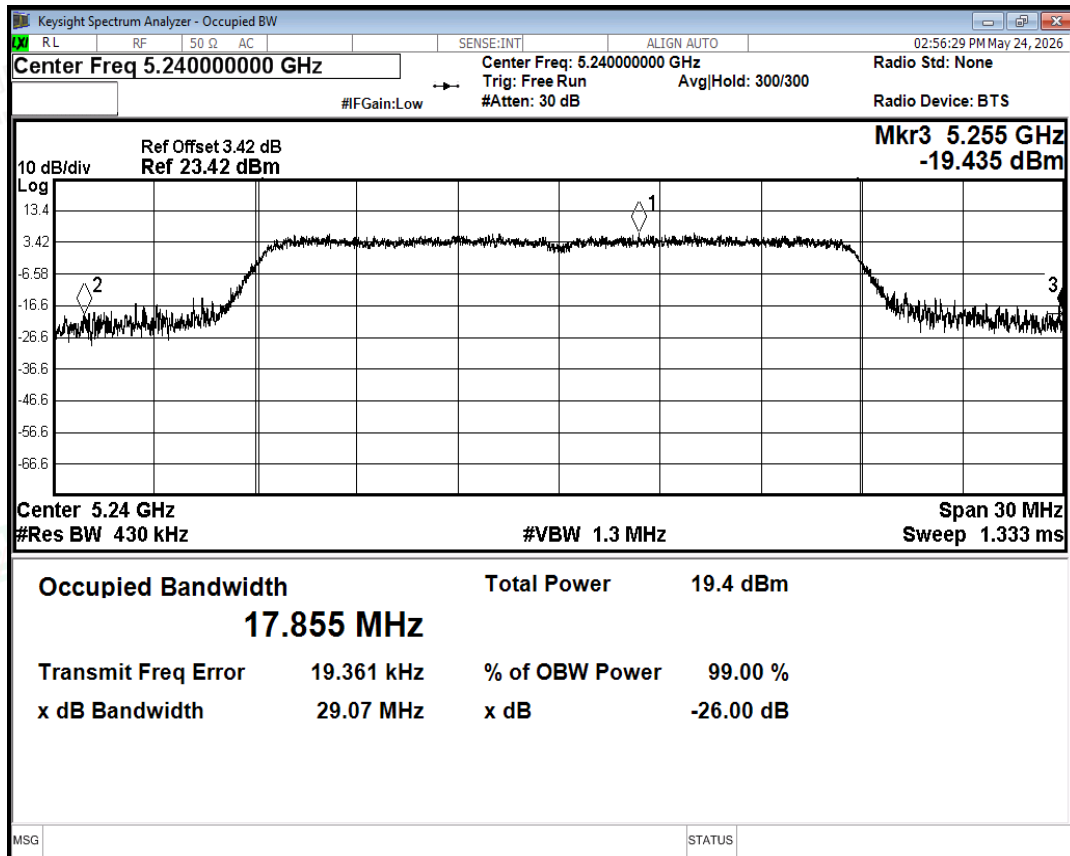


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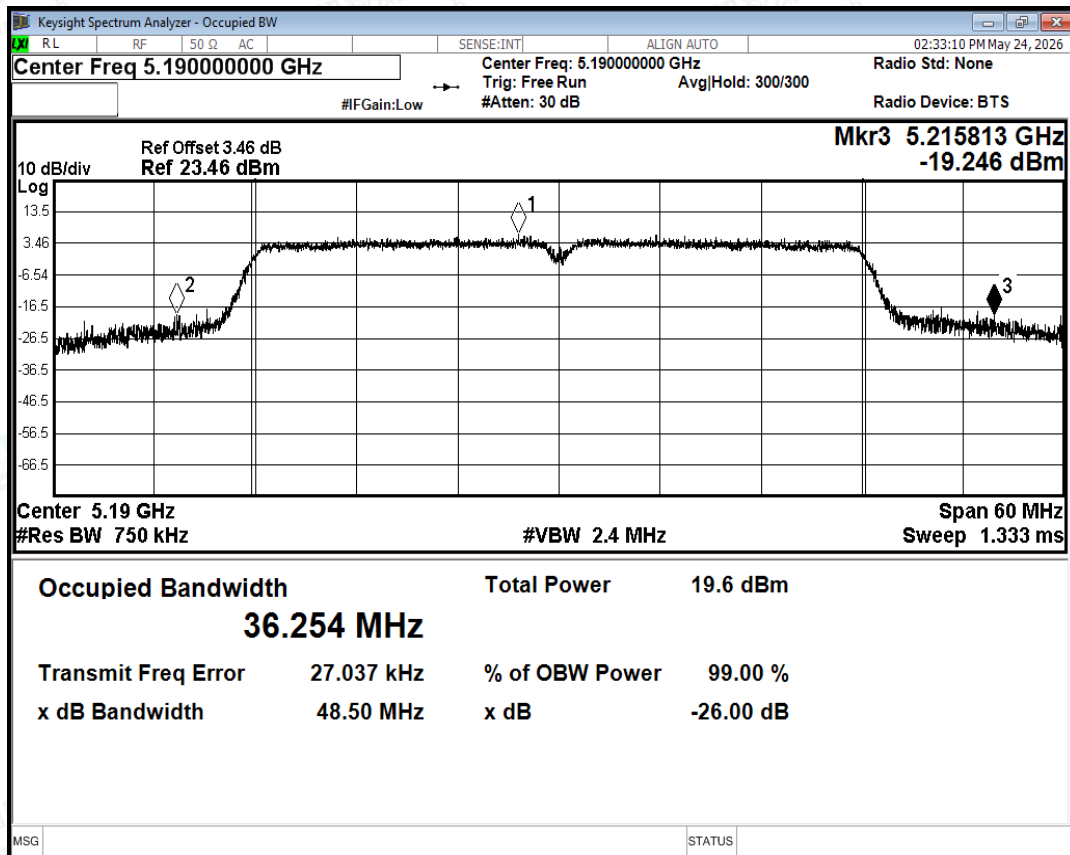
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-26dB Bandwidth NVNT ac20 5240MHz Ant2



-26dB Bandwidth NVNT ac40 5190MHz Ant2

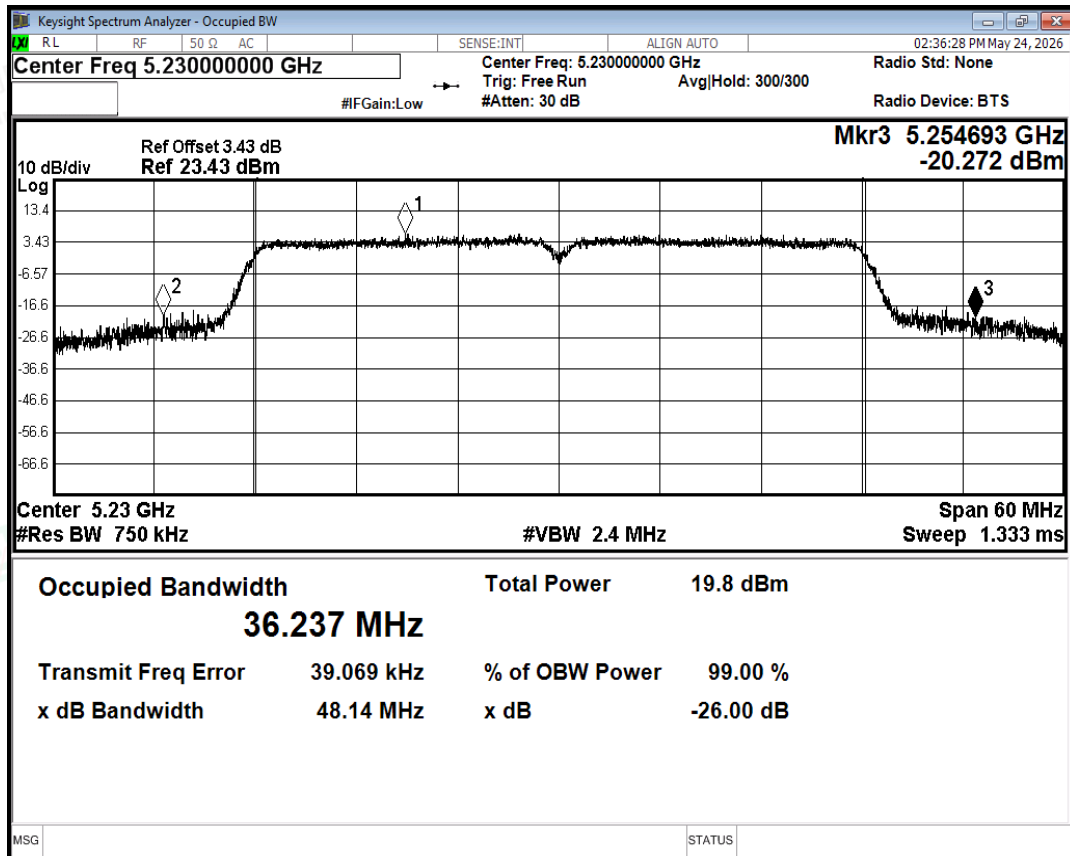


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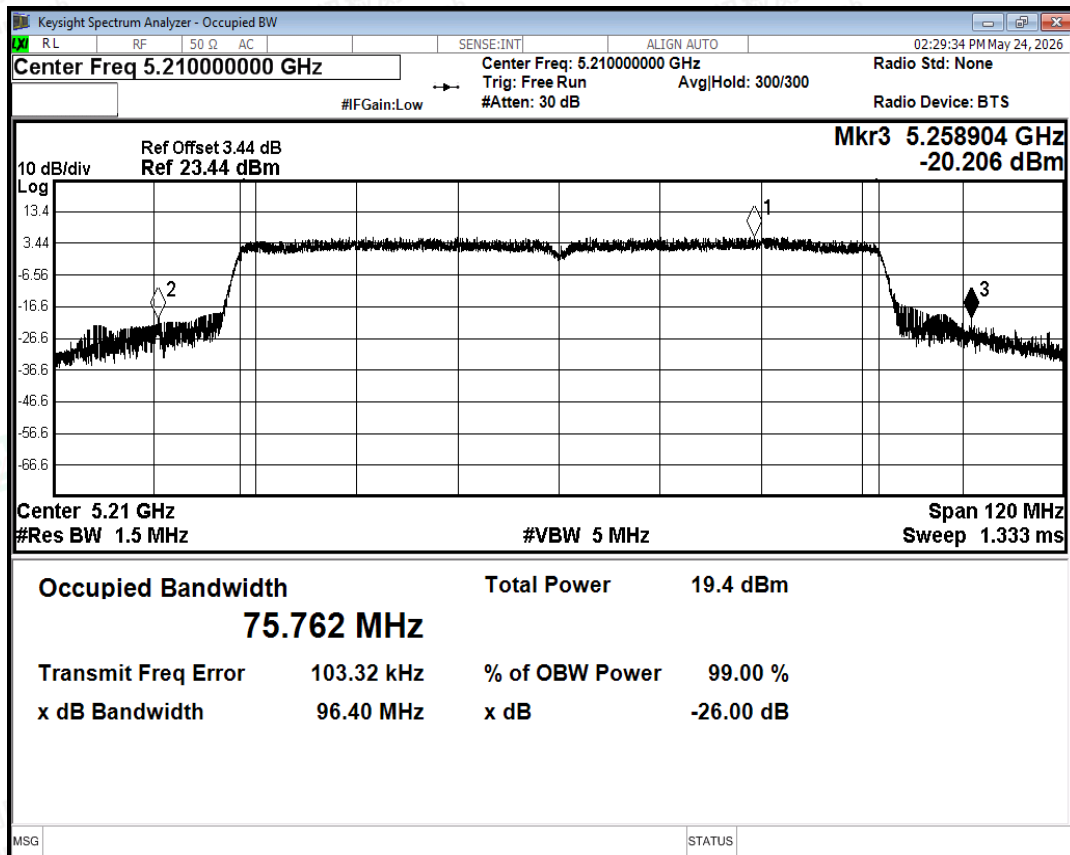
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-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2



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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted (dBm)	Verdict
NVNT	a	5180	Ant1	17.93	0.18	18.11	24	Pass
NVNT	a	5200	Ant1	18.11	0.21	18.32	24	Pass
NVNT	a	5240	Ant1	17.15	0.21	17.36	24	Pass
NVNT	n20	5180	Ant1	17.45	0.22	17.67	24	Pass
NVNT	n20	5200	Ant1	16.71	0.22	16.93	24	Pass
NVNT	n20	5240	Ant1	15.87	0.22	16.09	24	Pass
NVNT	n40	5190	Ant1	16.17	0.42	16.59	24	Pass
NVNT	n40	5230	Ant1	14.97	0.42	15.39	24	Pass
NVNT	ac20	5180	Ant1	17.11	0.25	17.36	24	Pass
NVNT	ac20	5200	Ant1	16.68	0.21	16.89	24	Pass
NVNT	ac20	5240	Ant1	16.86	0.25	17.11	24	Pass
NVNT	ac40	5190	Ant1	15.87	0.49	16.36	24	Pass
NVNT	ac40	5230	Ant1	14.96	0.41	15.37	24	Pass
NVNT	ac80	5210	Ant1	15.31	0.82	16.13	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted (dBm)	Verdict
NVNT	a	5180	Ant2	17.88	0.18	18.06	24	Pass
NVNT	a	5200	Ant2	17.1	0.18	17.28	24	Pass
NVNT	a	5240	Ant2	17.41	0.21	17.62	24	Pass
NVNT	n20	5180	Ant2	17.29	0.22	17.51	24	Pass
NVNT	n20	5200	Ant2	17.15	0.25	17.4	24	Pass
NVNT	n20	5240	Ant2	17.56	0.22	17.78	24	Pass
NVNT	n40	5190	Ant2	16.73	0.42	17.15	24	Pass
NVNT	n40	5230	Ant2	17.47	0.43	17.9	24	Pass
NVNT	ac20	5180	Ant2	17.65	0.21	17.86	24	Pass
NVNT	ac20	5200	Ant2	17.11	0.21	17.32	24	Pass
NVNT	ac20	5240	Ant2	17.85	0.21	18.06	24	Pass
NVNT	ac40	5190	Ant2	16.74	0.41	17.15	24	Pass
NVNT	ac40	5230	Ant2	16.48	0.49	16.97	24	Pass
NVNT	ac80	5210	Ant2	15.08	0.79	15.87	24	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	17.67	17.51	20.60	24	Pass
NVNT	n20	5200	16.93	17.4	20.18	24	Pass
NVNT	n20	5240	16.09	17.78	20.03	24	Pass
NVNT	n40	5190	16.59	17.15	19.89	24	Pass
NVNT	n40	5230	15.39	17.9	19.83	24	Pass
NVNT	ac20	5180	17.36	17.86	20.63	24	Pass
NVNT	ac20	5200	16.89	17.32	20.12	24	Pass
NVNT	ac20	5240	17.11	18.06	20.62	24	Pass
NVNT	ac40	5190	16.36	17.15	19.78	24	Pass
NVNT	ac40	5230	15.37	16.97	19.25	24	Pass
NVNT	ac80	5210	16.13	15.87	19.01	24	Pass





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	1.55	0.18	1.73	11	Pass
NVNT	a	5200	Ant1	1.51	0.21	1.72	11	Pass
NVNT	a	5240	Ant1	1.98	0.21	2.19	11	Pass
NVNT	n20	5180	Ant1	0.69	0.22	0.91	11	Pass
NVNT	n20	5200	Ant1	0.68	0.22	0.9	11	Pass
NVNT	n20	5240	Ant1	1.21	0.22	1.43	11	Pass
NVNT	n40	5190	Ant1	-2.41	0.42	-1.99	11	Pass
NVNT	n40	5230	Ant1	-2.08	0.42	-1.66	11	Pass
NVNT	ac20	5180	Ant1	0.81	0.25	1.06	11	Pass
NVNT	ac20	5200	Ant1	0.61	0.21	0.82	11	Pass
NVNT	ac20	5240	Ant1	1.24	0.25	1.49	11	Pass
NVNT	ac40	5190	Ant1	-2.09	0.49	-1.6	11	Pass
NVNT	ac40	5230	Ant1	-2.09	0.41	-1.68	11	Pass
NVNT	ac80	5210	Ant1	-6.39	0.82	-5.57	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	1.56	0.18	1.74	11	Pass
NVNT	a	5200	Ant2	1.75	0.18	1.93	11	Pass
NVNT	a	5240	Ant2	2.28	0.21	2.49	11	Pass
NVNT	n20	5180	Ant2	1.05	0.22	1.27	11	Pass
NVNT	n20	5200	Ant2	1.0	0.25	1.25	11	Pass
NVNT	n20	5240	Ant2	1.46	0.22	1.68	11	Pass
NVNT	n40	5190	Ant2	-2.16	0.42	-1.74	11	Pass
NVNT	n40	5230	Ant2	-1.97	0.43	-1.54	11	Pass
NVNT	ac20	5180	Ant2	1.08	0.21	1.29	11	Pass
NVNT	ac20	5200	Ant2	1.07	0.21	1.28	11	Pass
NVNT	ac20	5240	Ant2	1.21	0.21	1.42	11	Pass
NVNT	ac40	5190	Ant2	-2.13	0.41	-1.72	11	Pass
NVNT	ac40	5230	Ant2	-2.08	0.49	-1.59	11	Pass
NVNT	ac80	5210	Ant2	-6.15	0.79	-5.36	11	Pass

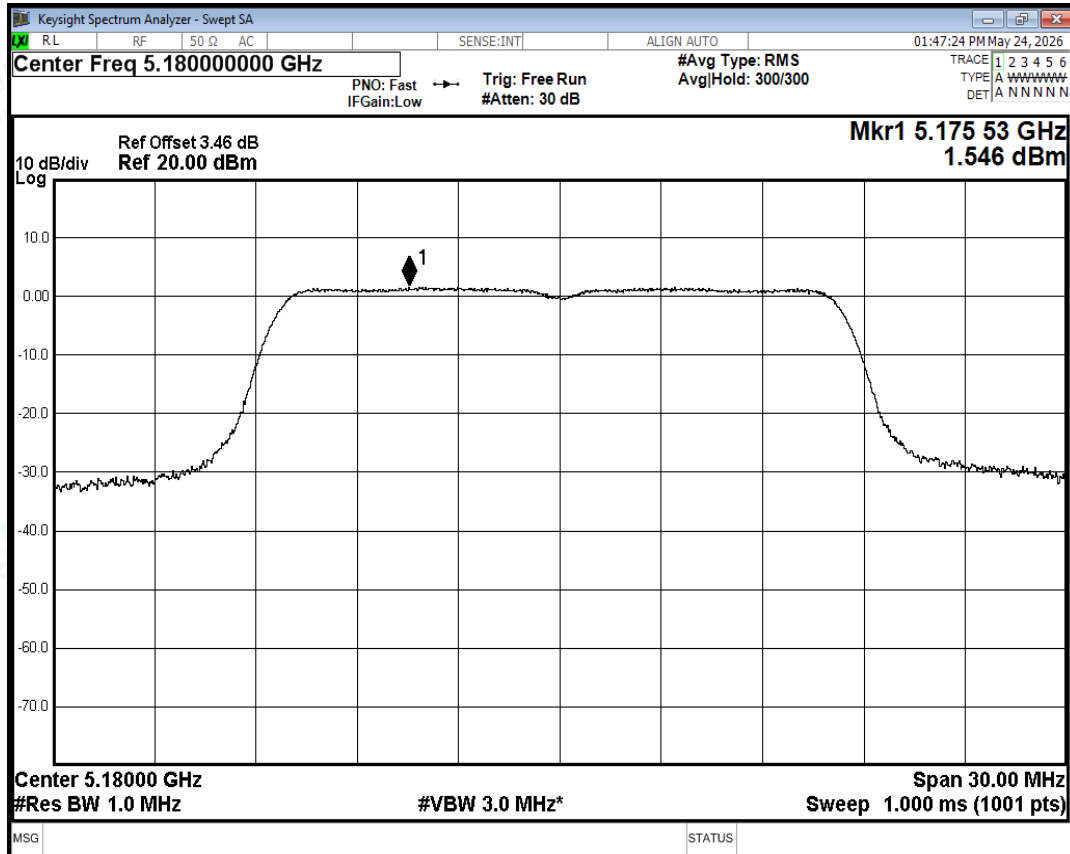




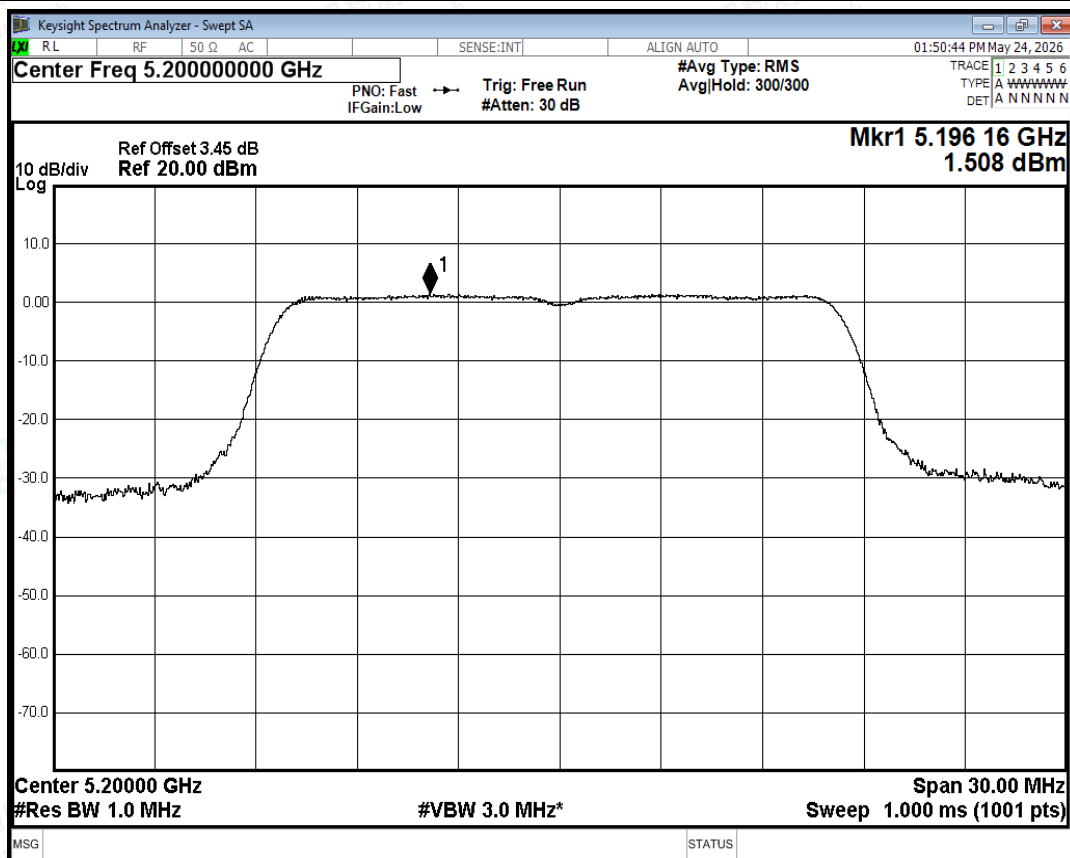
MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	0.91	1.27	4.10	11	Pass
NVNT	n20	5200	0.9	1.25	4.09	11	Pass
NVNT	n20	5240	1.43	1.68	4.57	11	Pass
NVNT	n40	5190	-1.99	-1.74	1.15	11	Pass
NVNT	n40	5230	-1.66	-1.54	1.41	11	Pass
NVNT	ac20	5180	1.06	1.29	4.19	11	Pass
NVNT	ac20	5200	0.82	1.28	4.07	11	Pass
NVNT	ac20	5240	1.49	1.42	4.47	11	Pass
NVNT	ac40	5190	-1.6	-1.72	1.35	11	Pass
NVNT	ac40	5230	-1.68	-1.59	1.38	11	Pass
NVNT	ac80	5210	-5.57	-5.36	-2.45	11	Pass





PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1

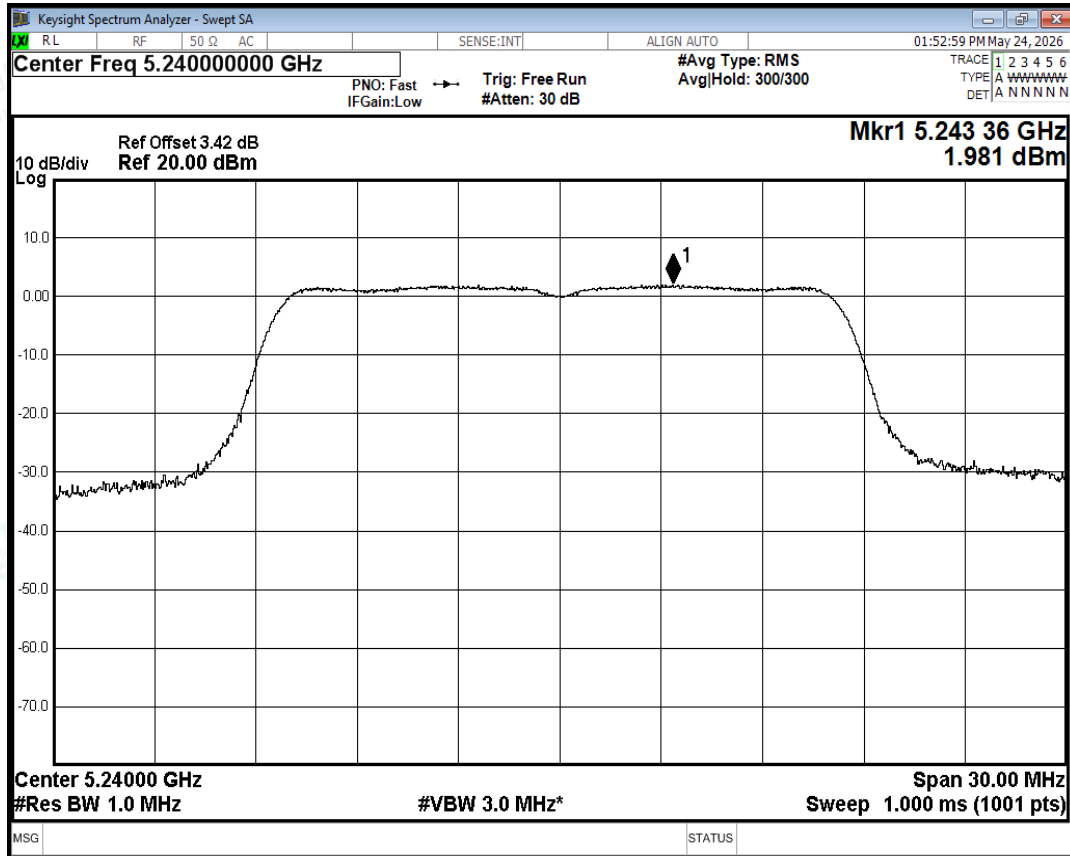


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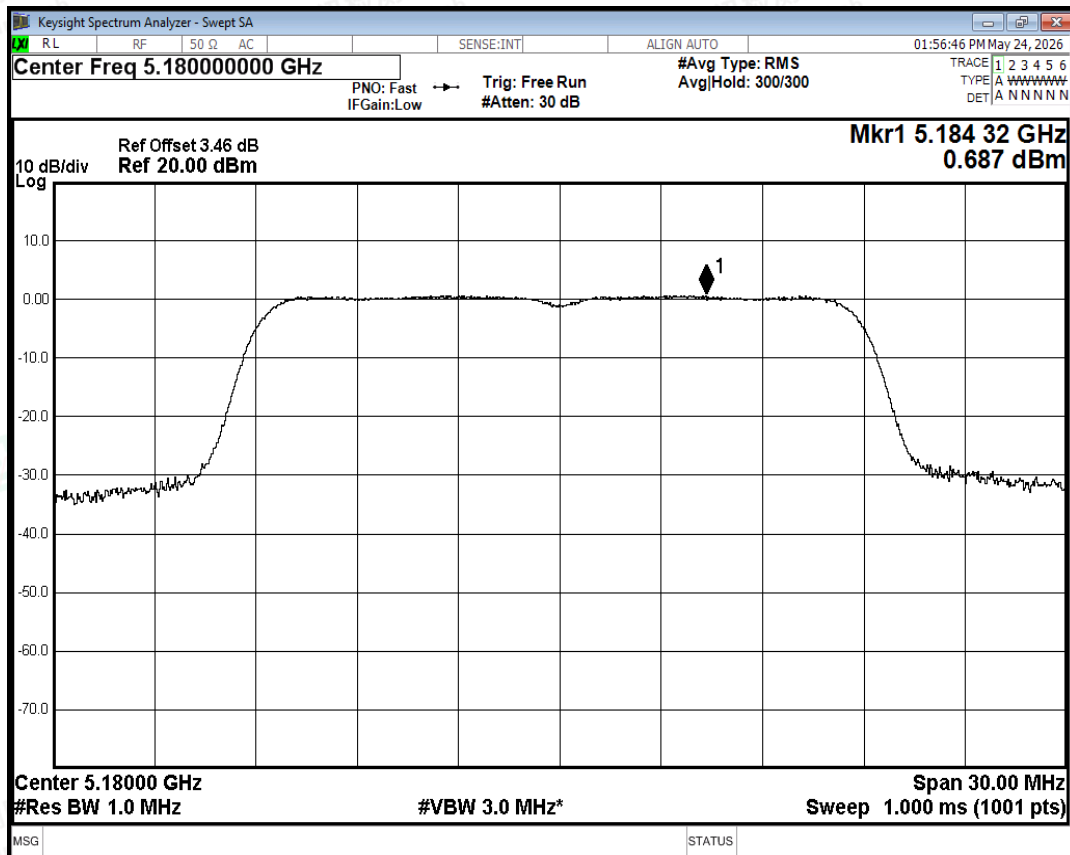
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PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

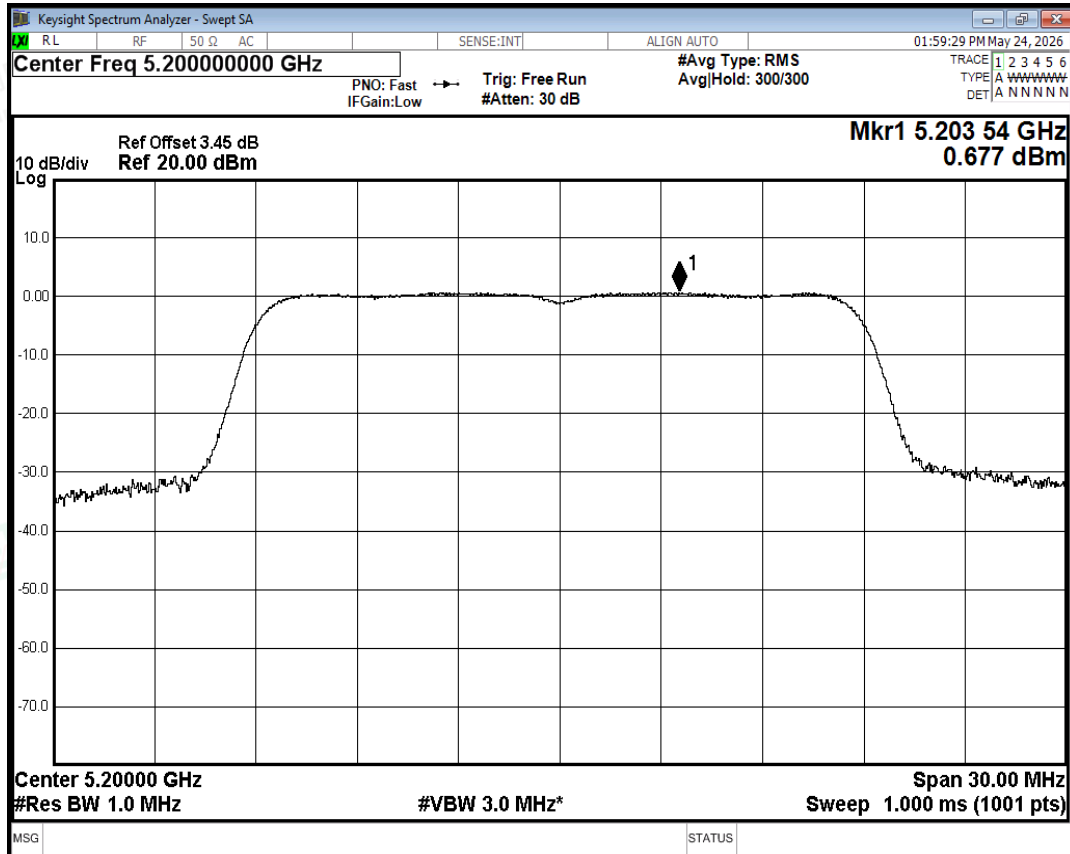


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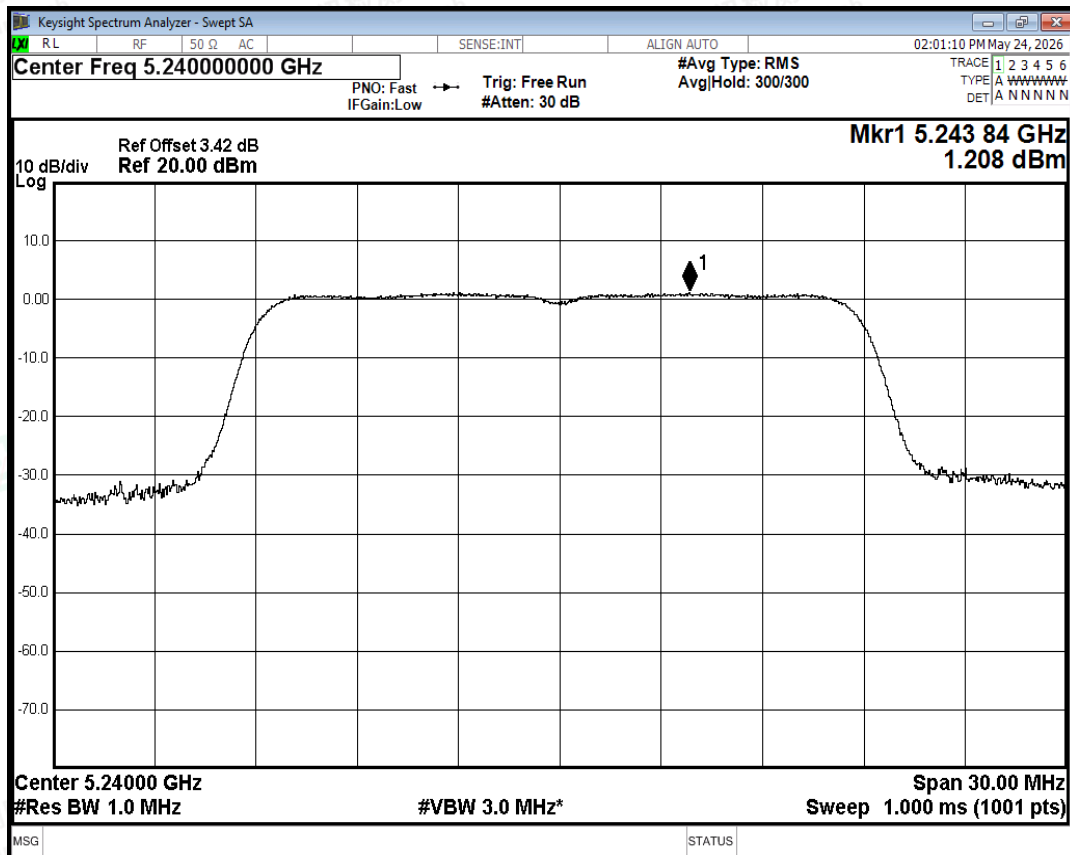
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PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

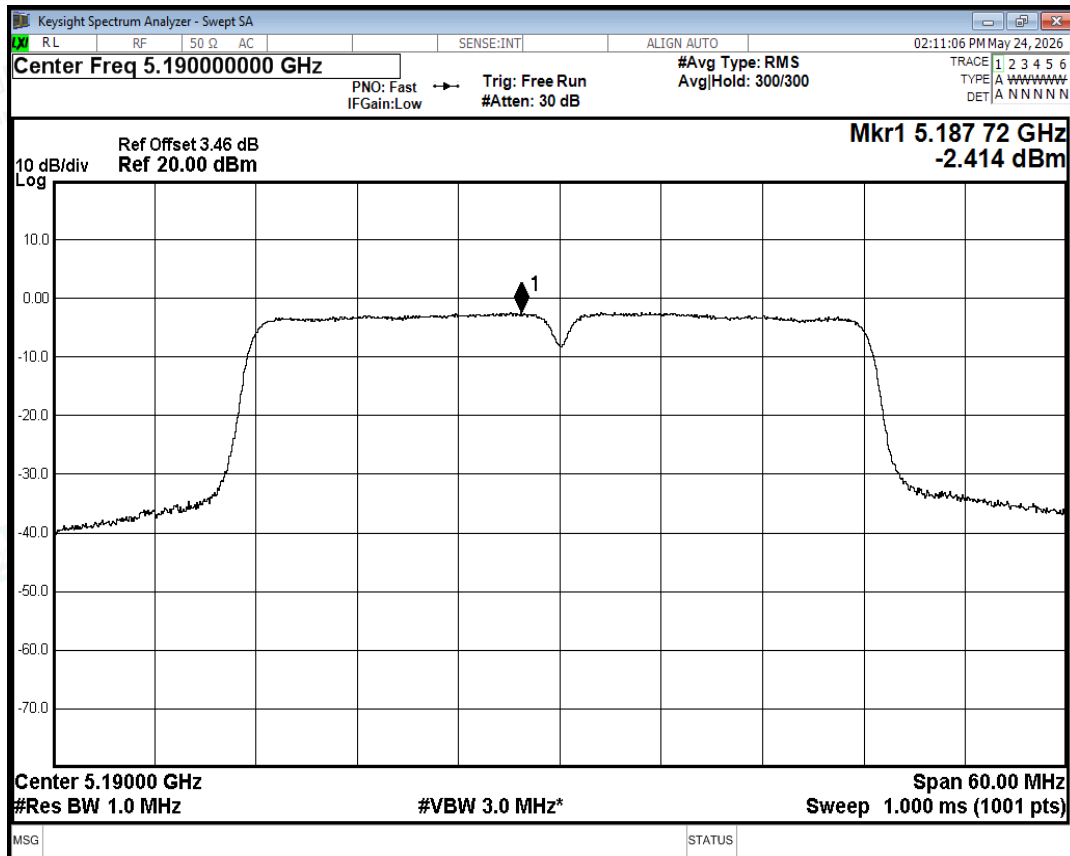


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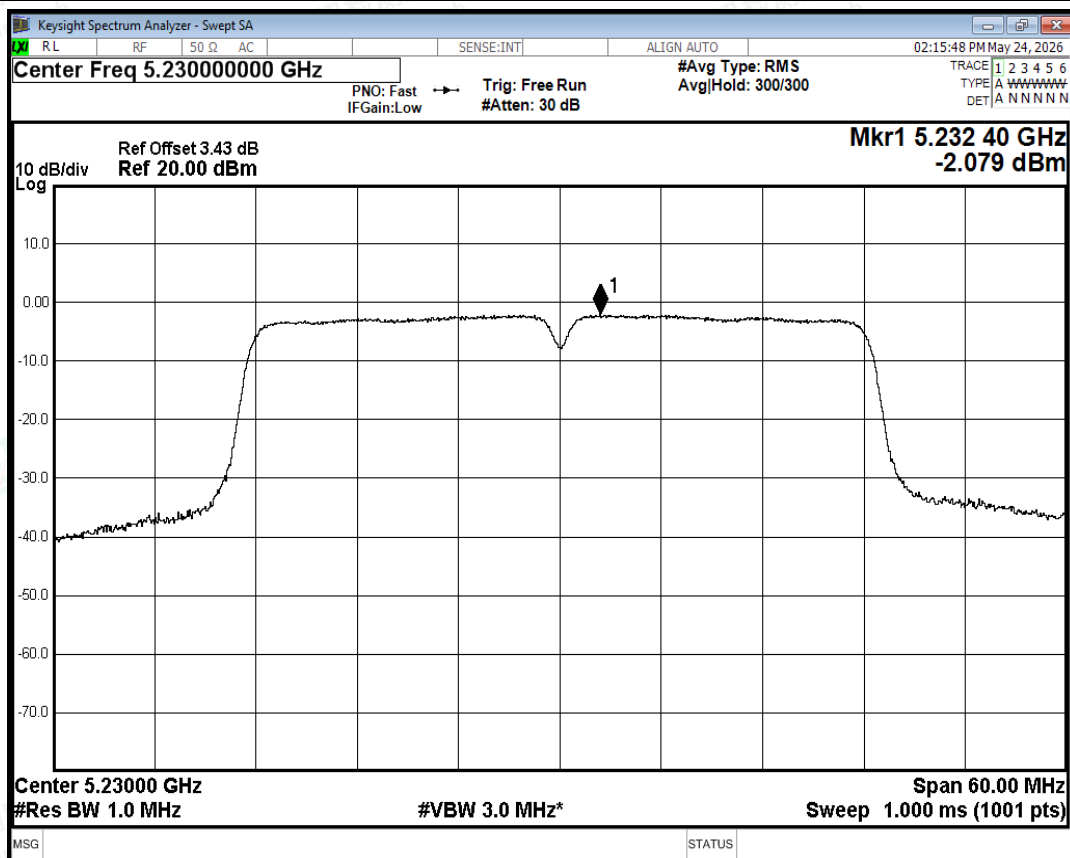
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PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

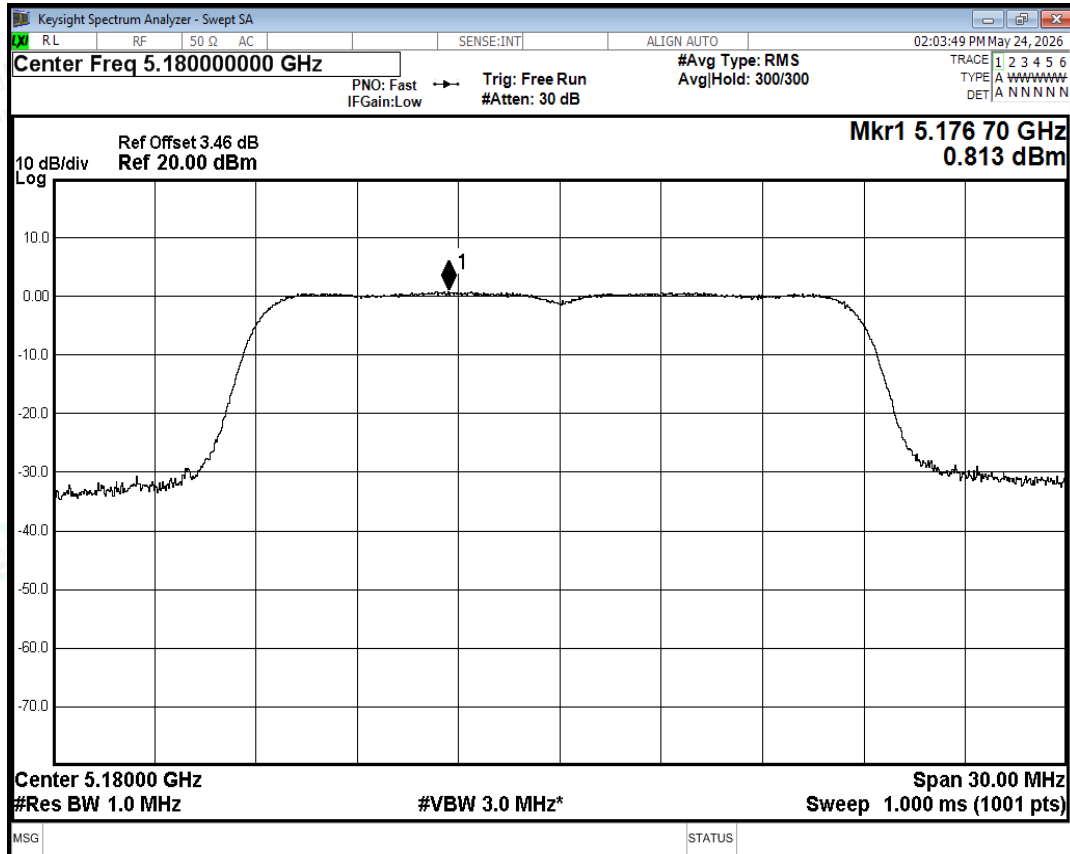


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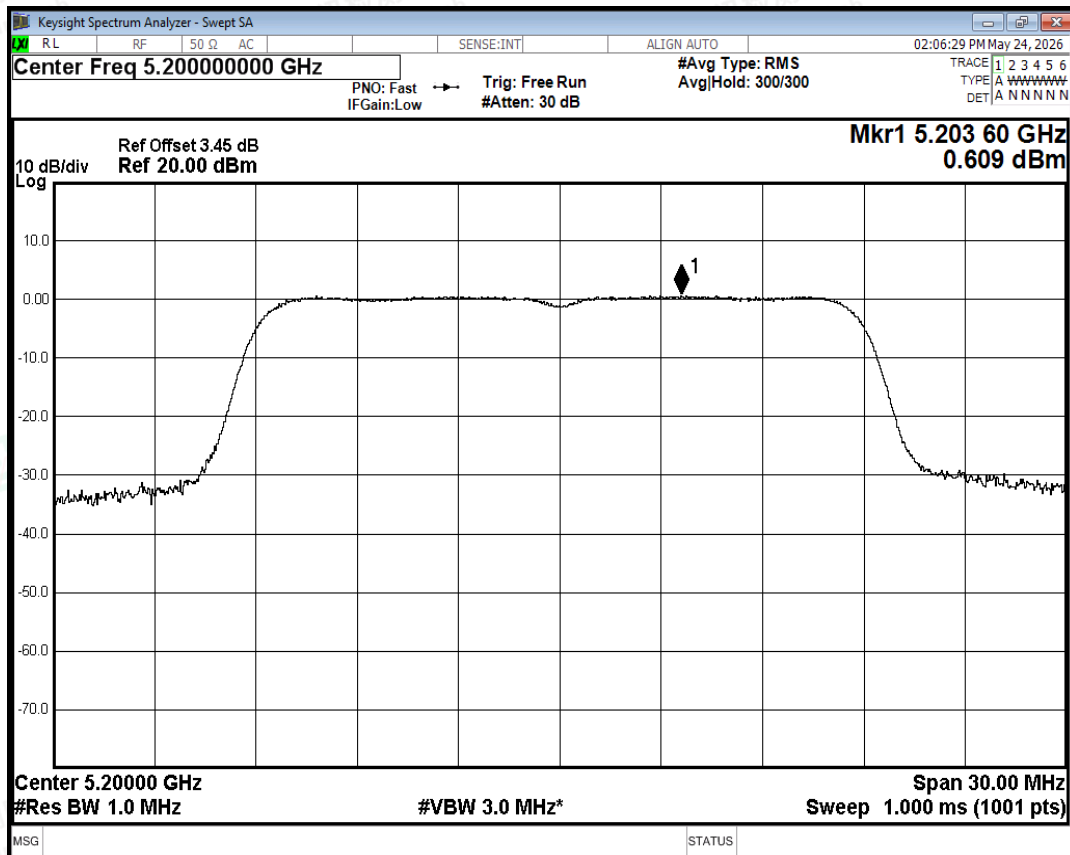
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PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1

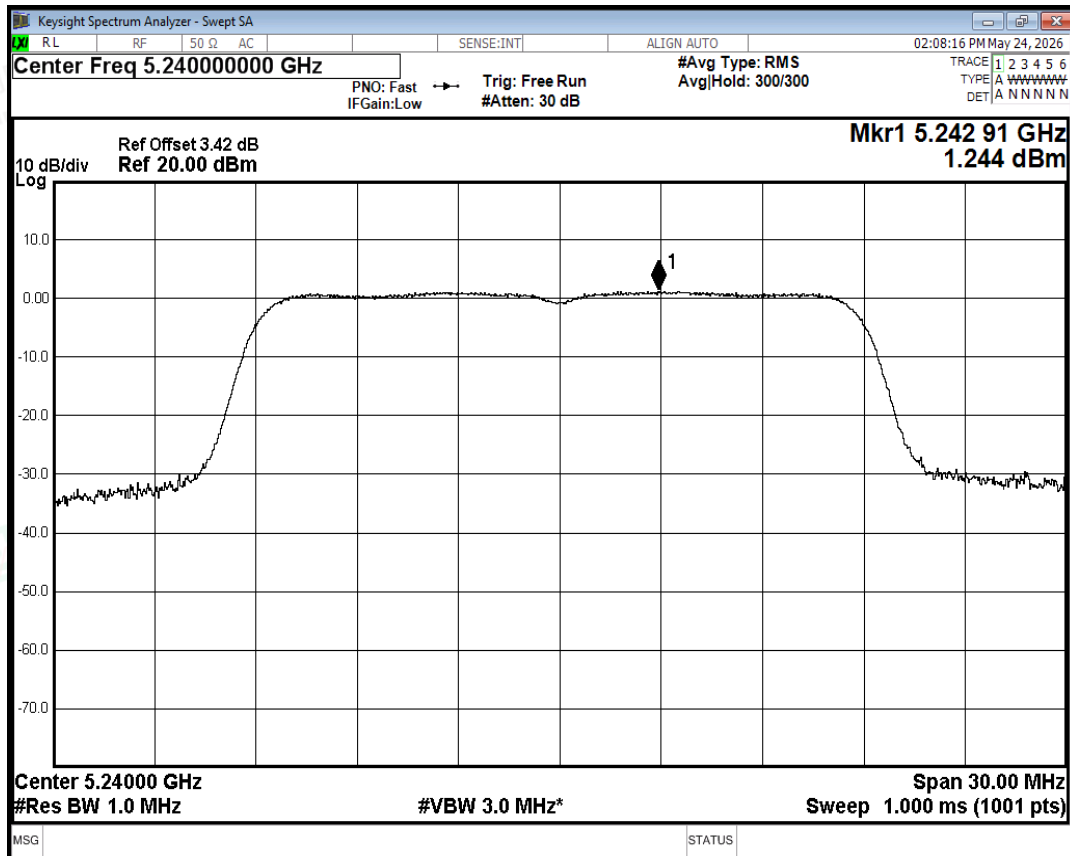


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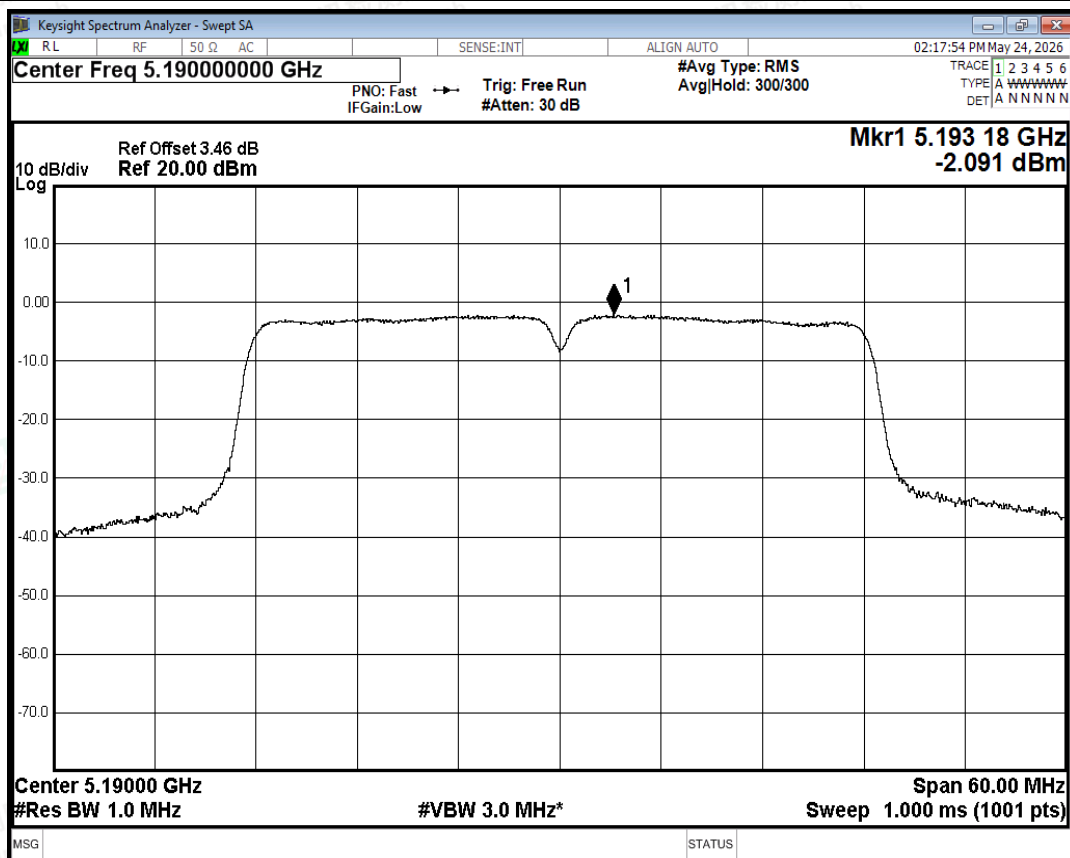
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PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1

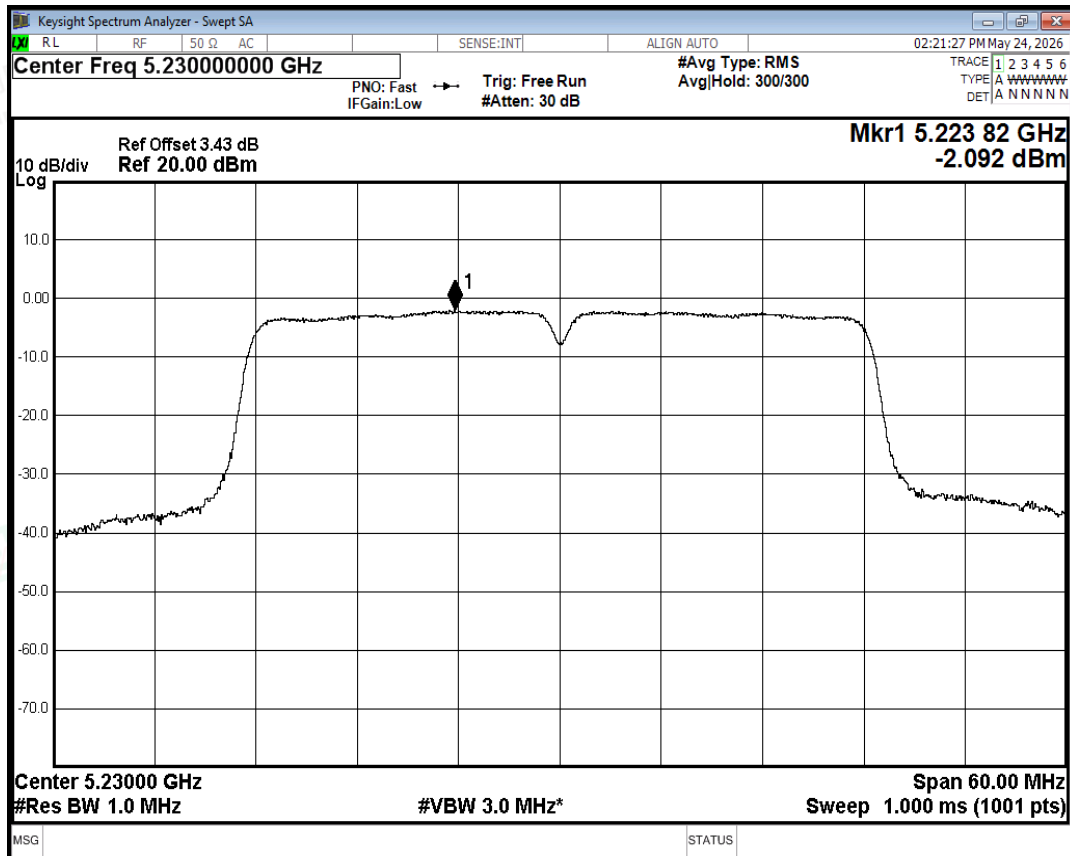


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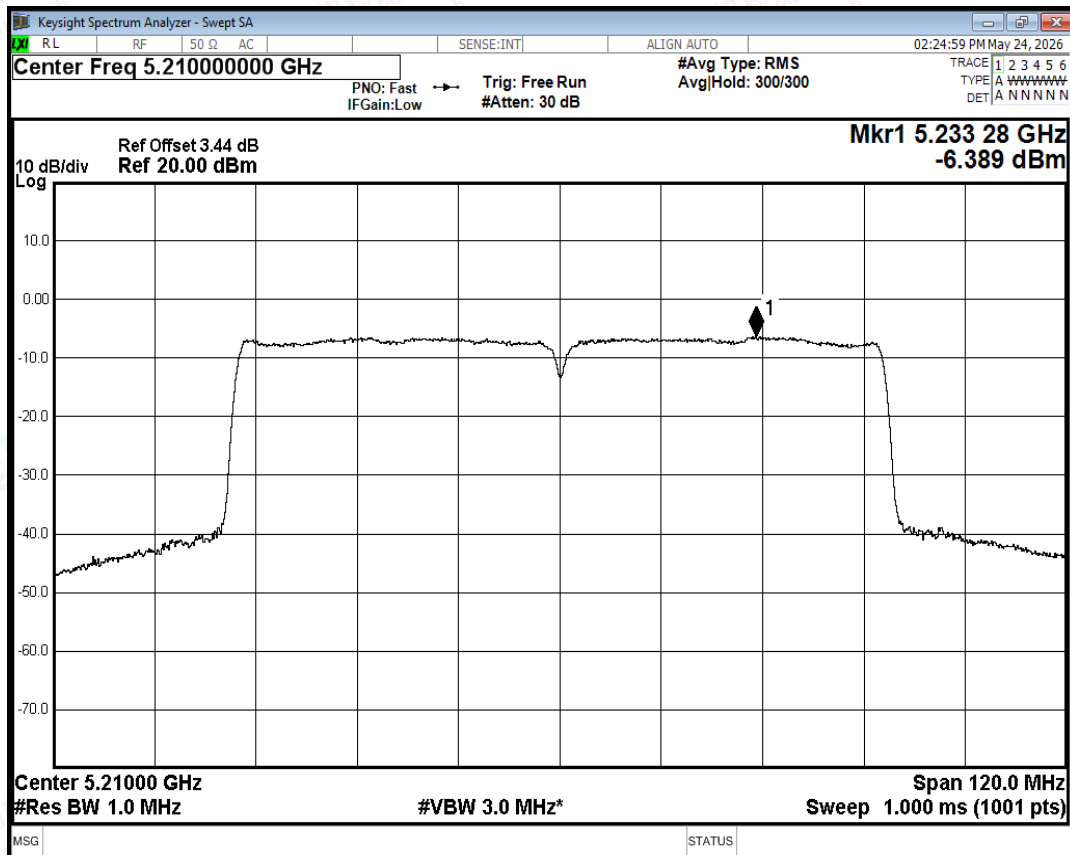
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PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1

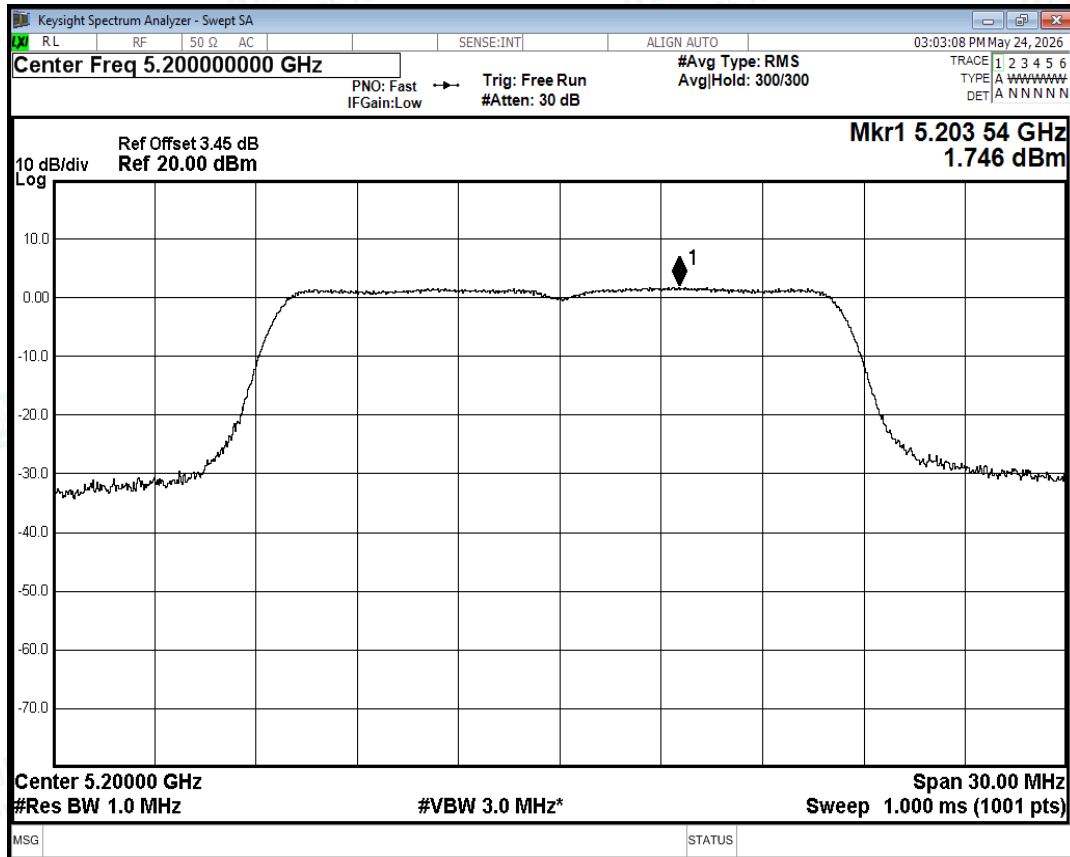
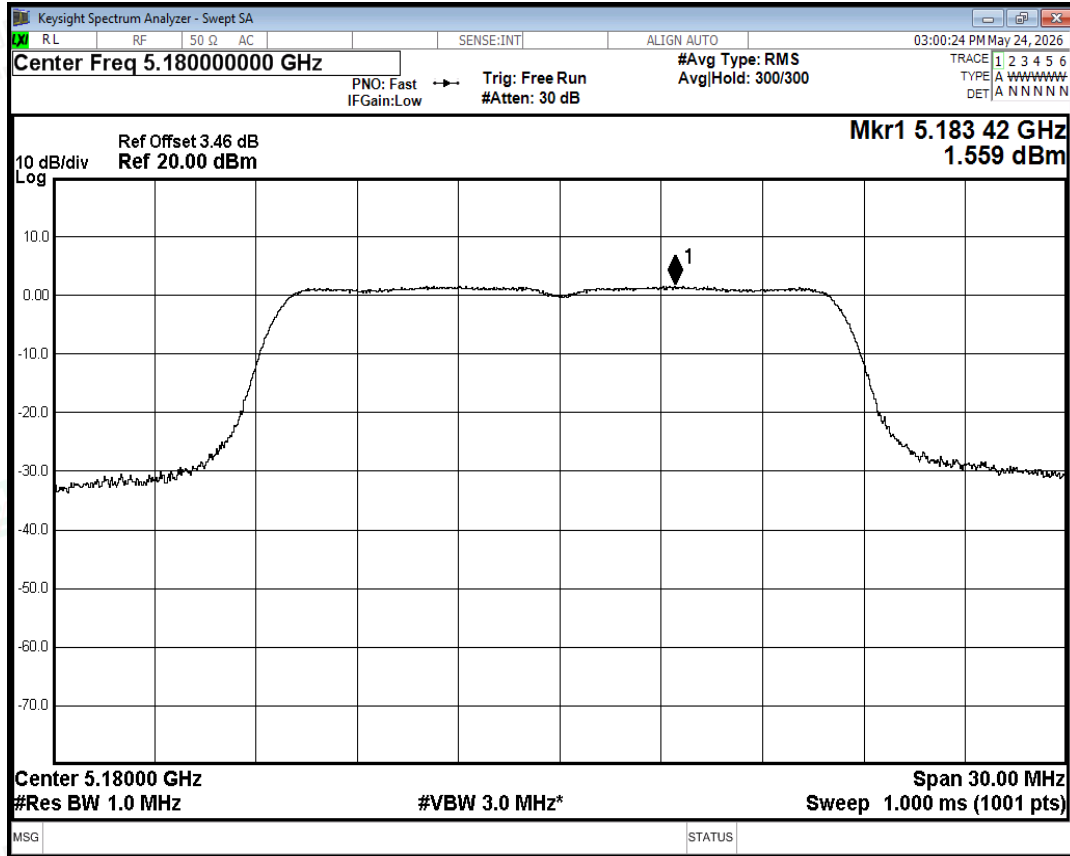


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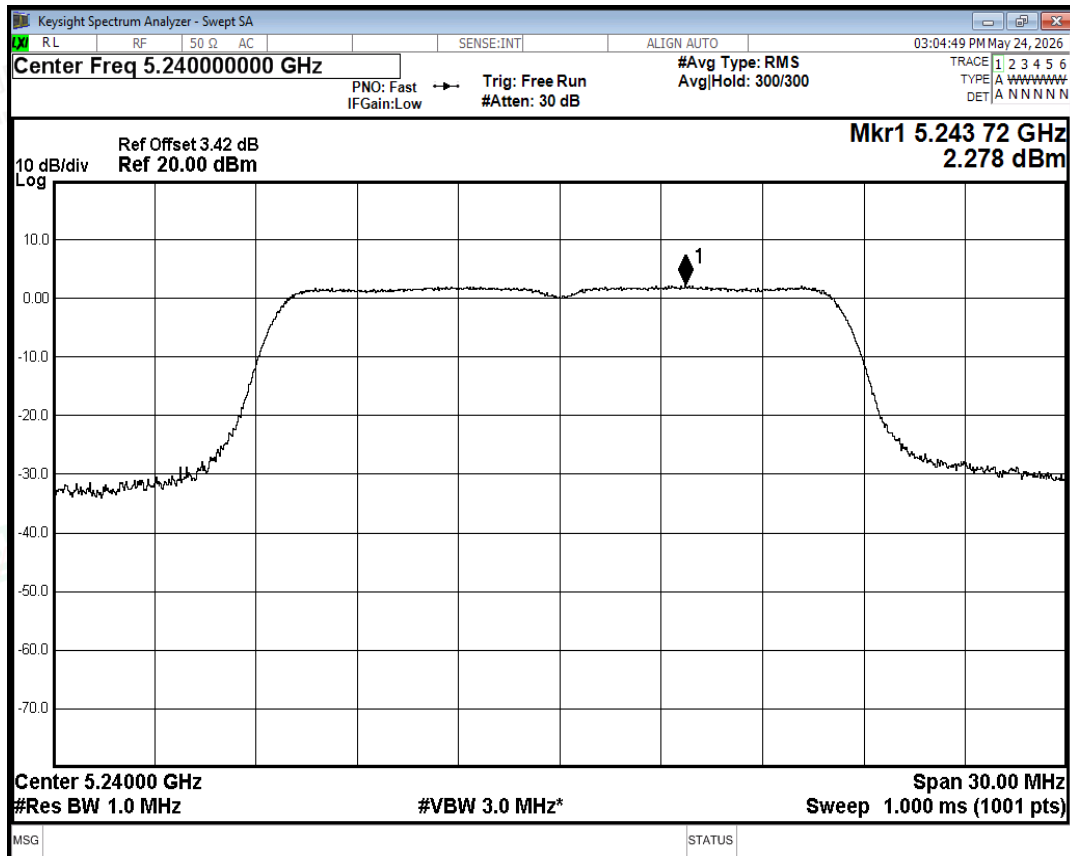


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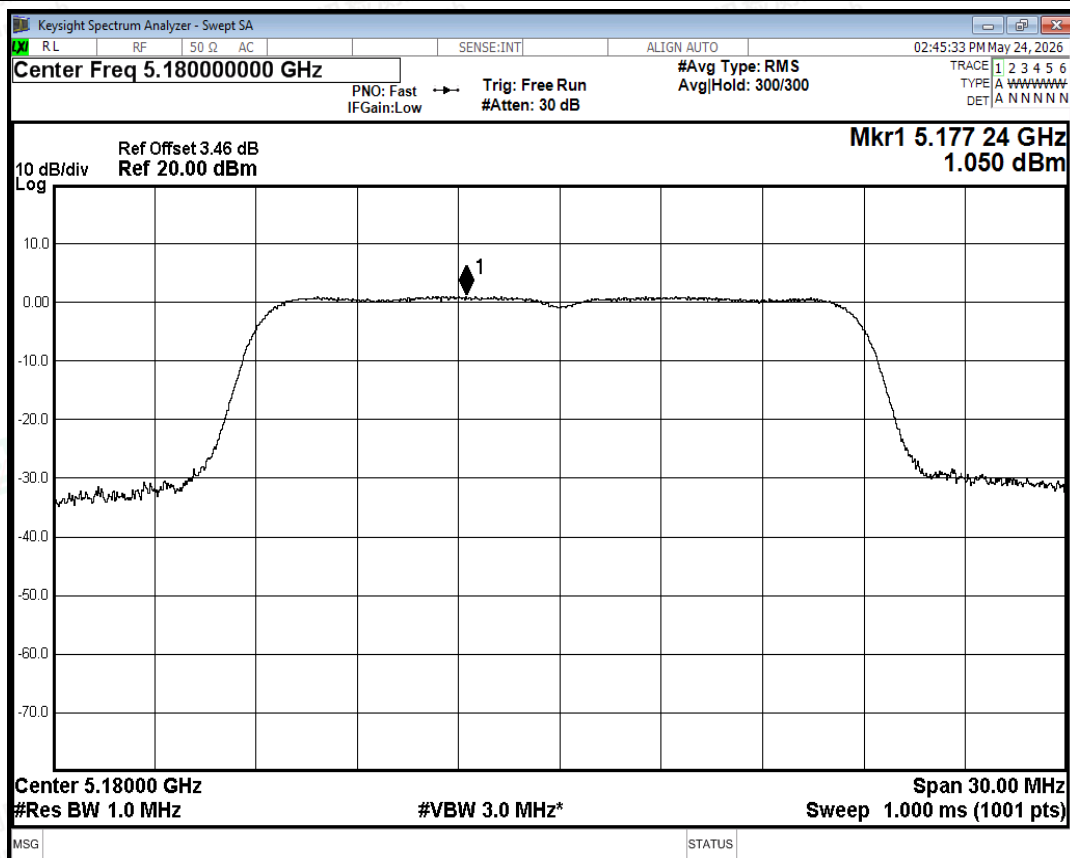
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PSD NVNT a 5240MHz Ant2



PSD NVNT n20 5180MHz Ant2

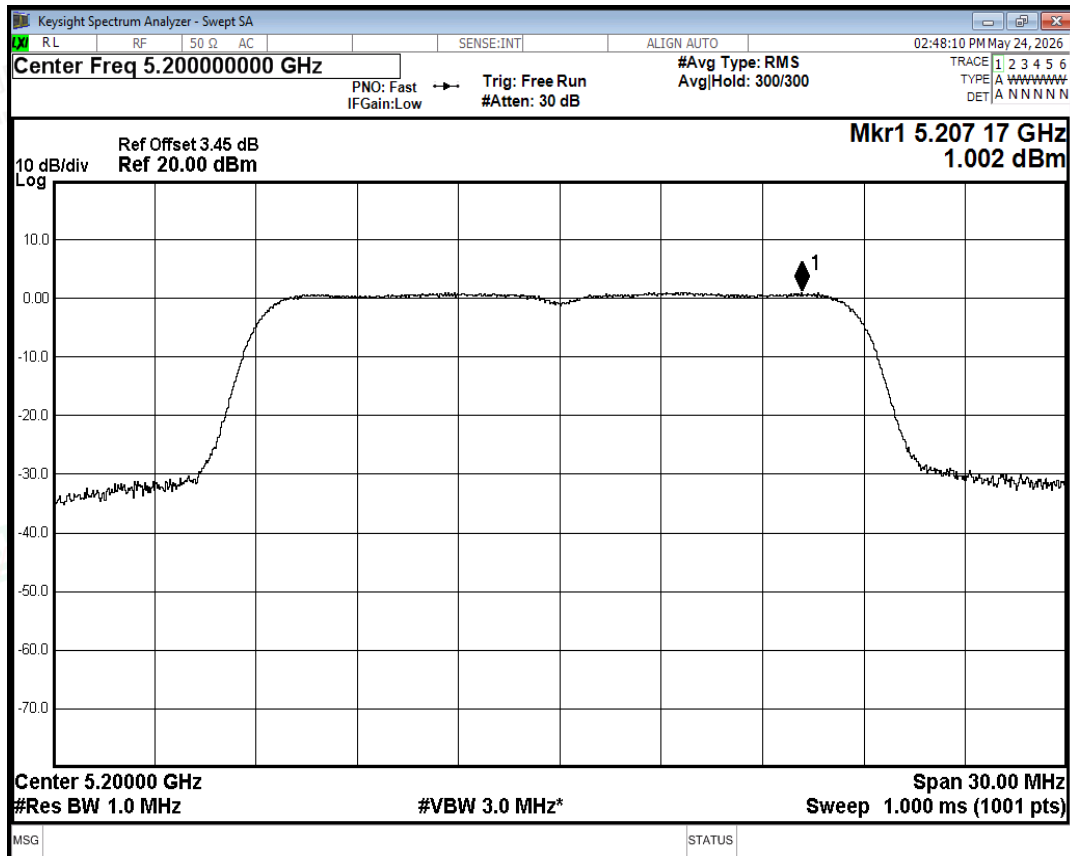


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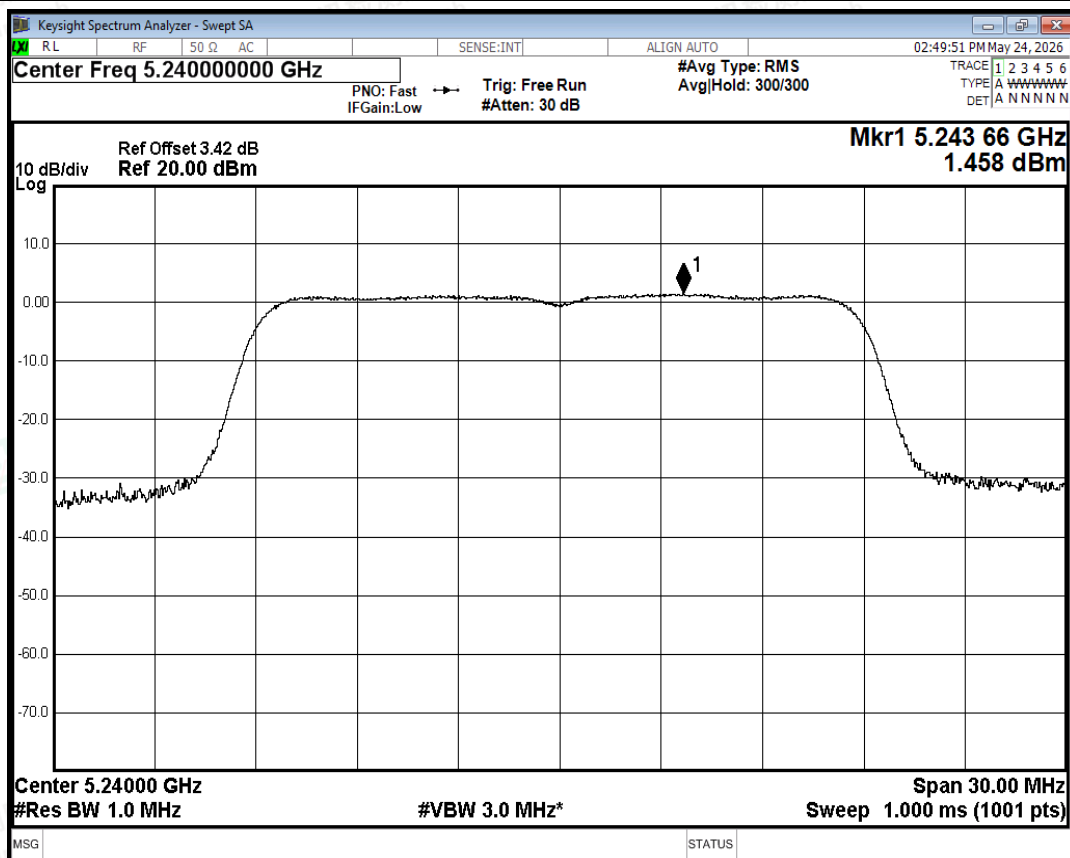
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PSD NVNT n20 5200MHz Ant2



PSD NVNT n20 5240MHz Ant2

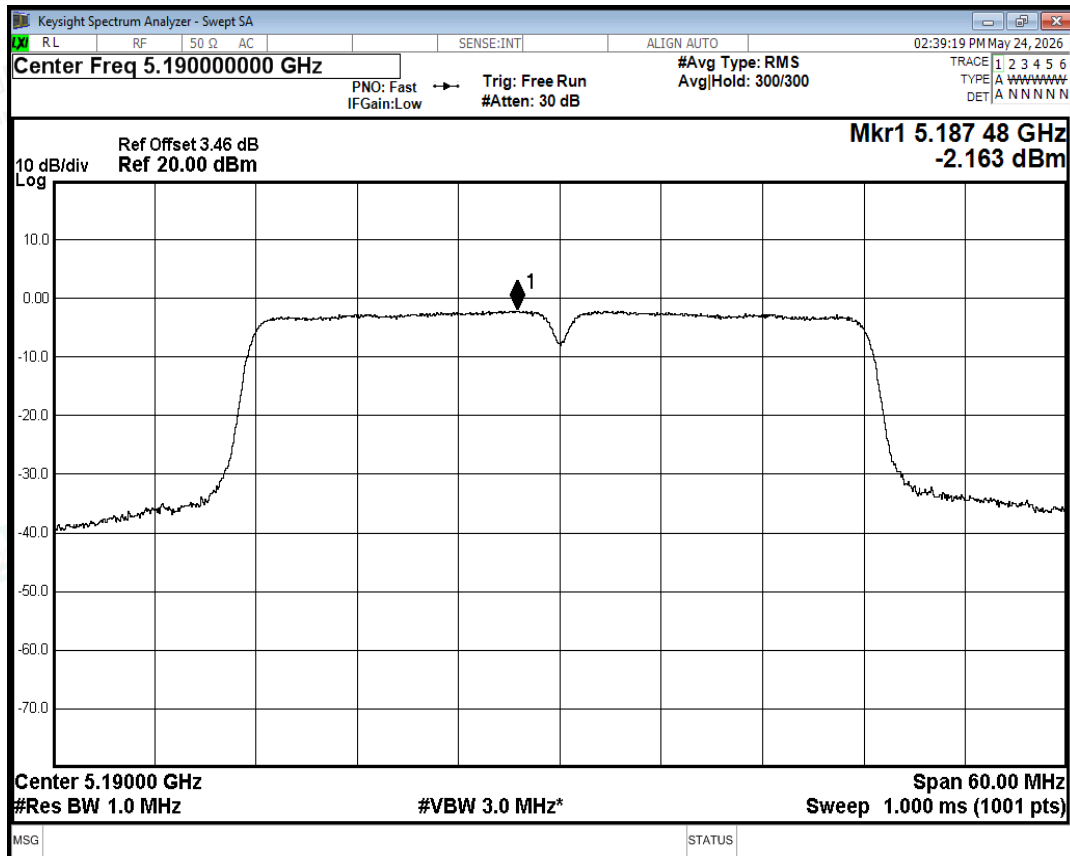


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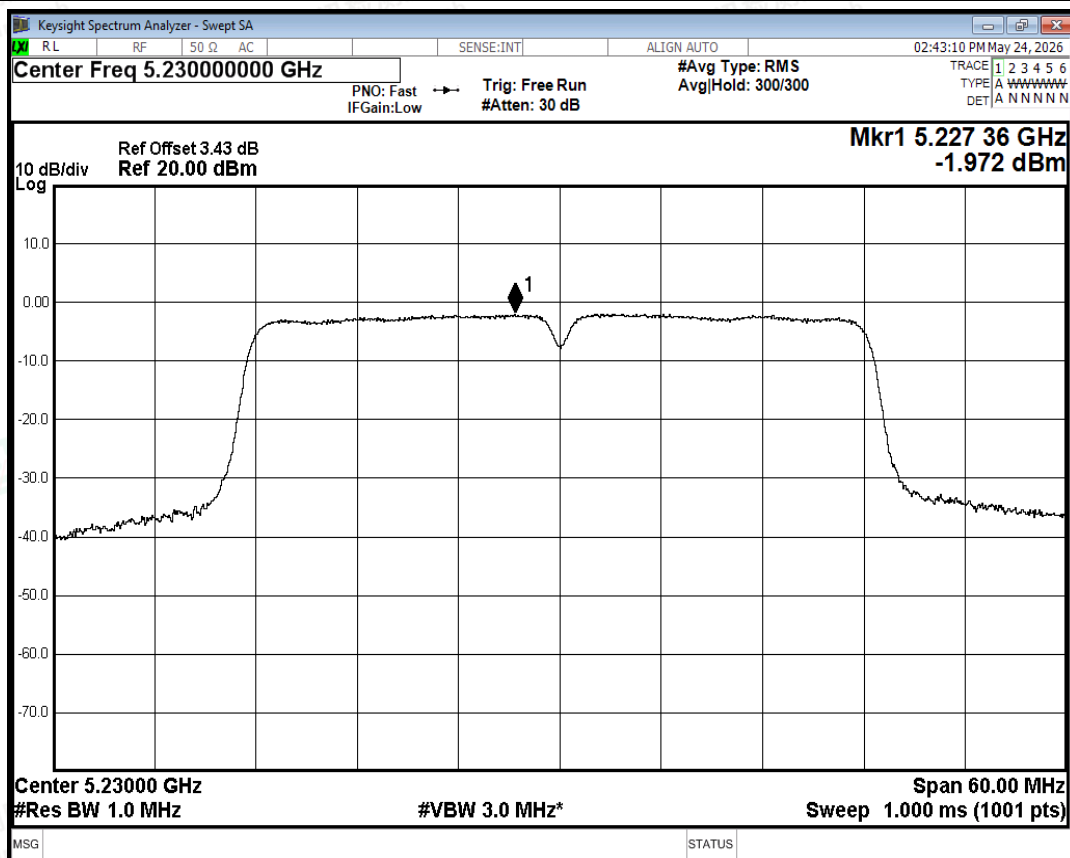
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PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant2

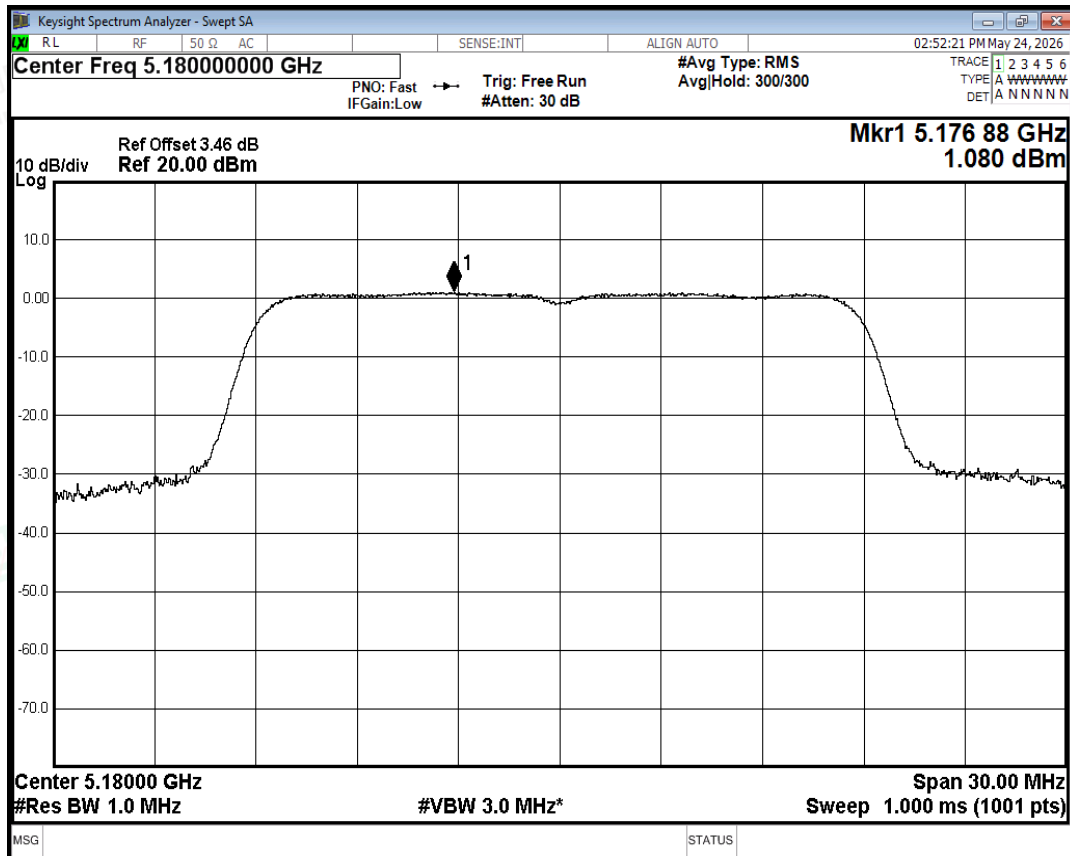


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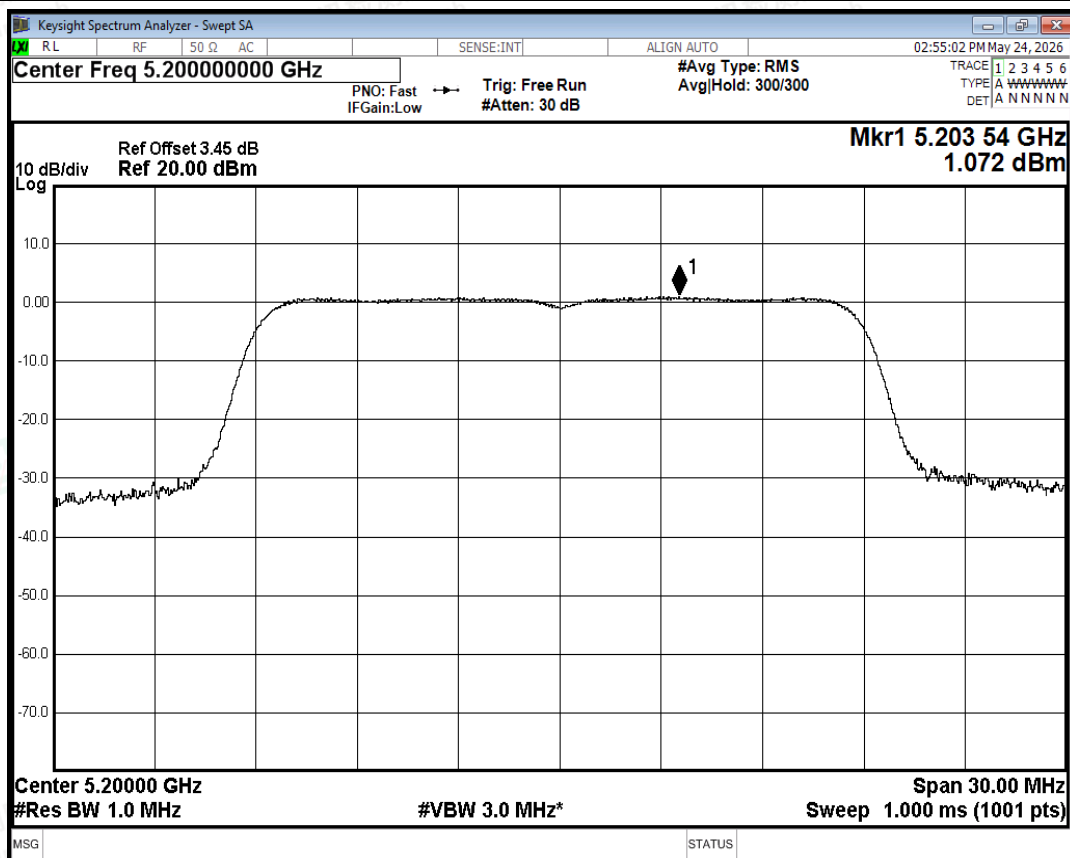
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PSD NVNT ac20 5180MHz Ant2



PSD NVNT ac20 5200MHz Ant2

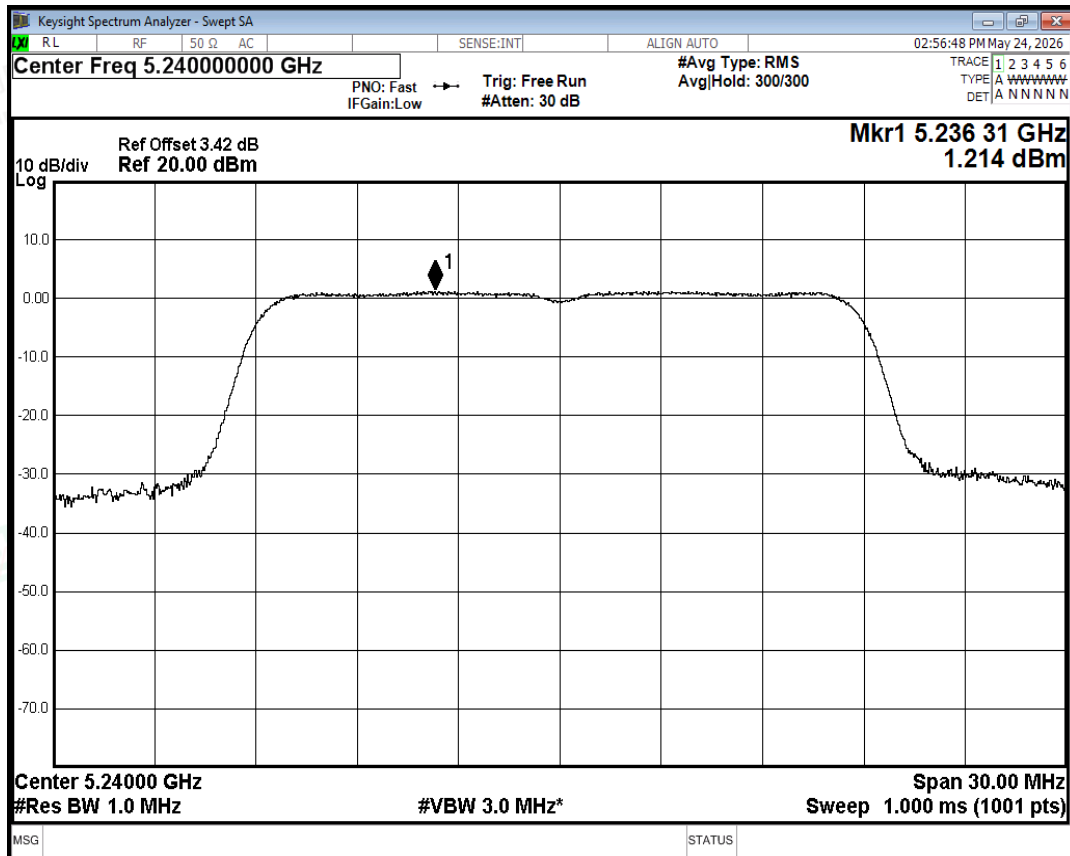


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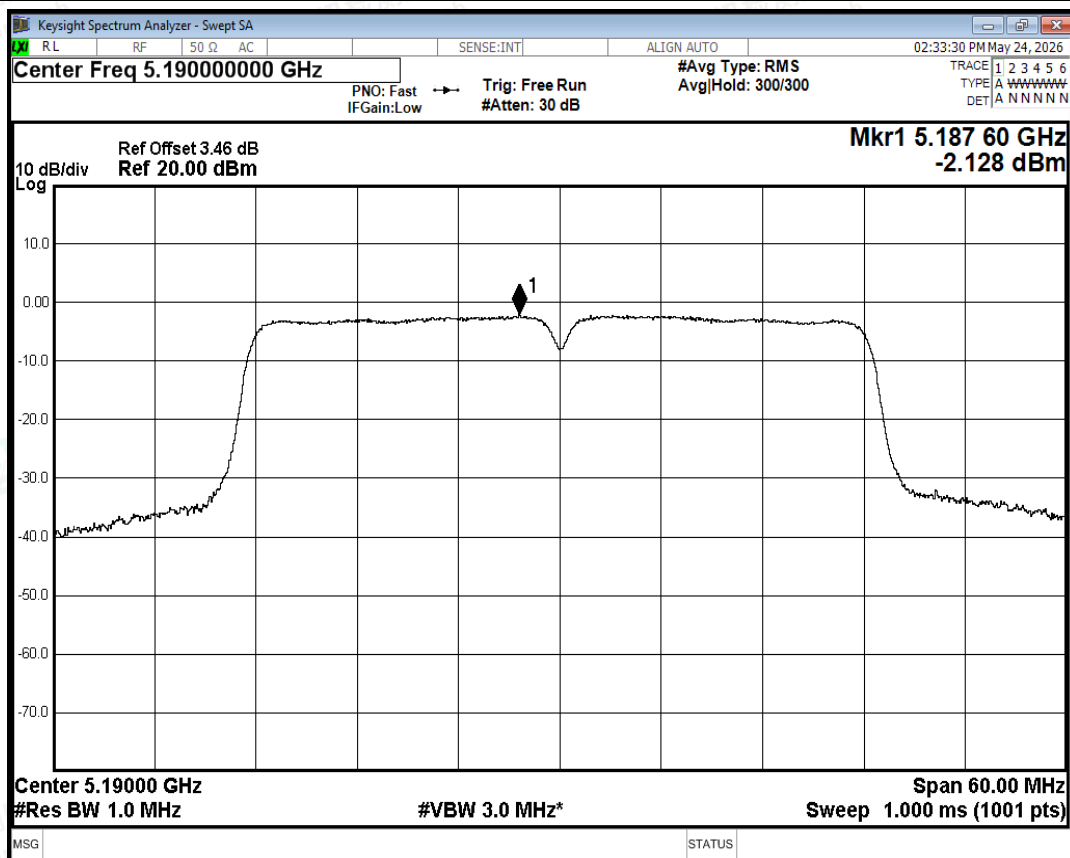
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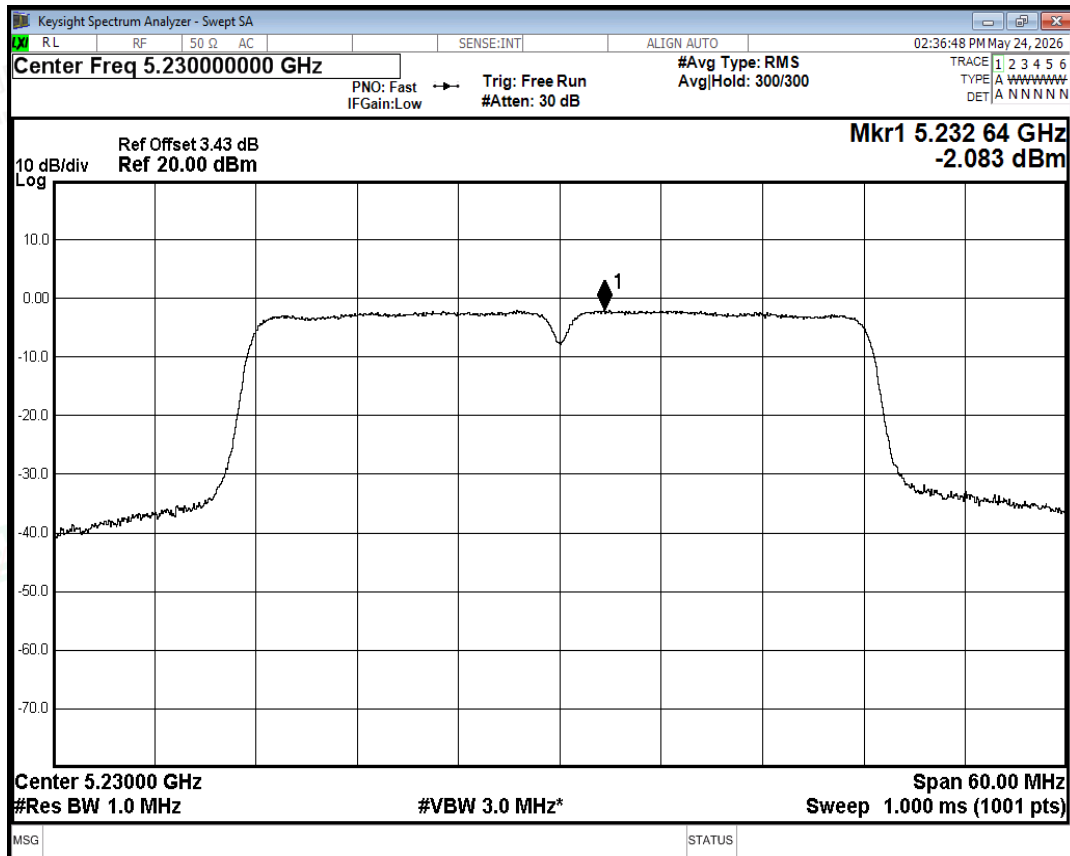


PSD NVNT ac20 5240MHz Ant2

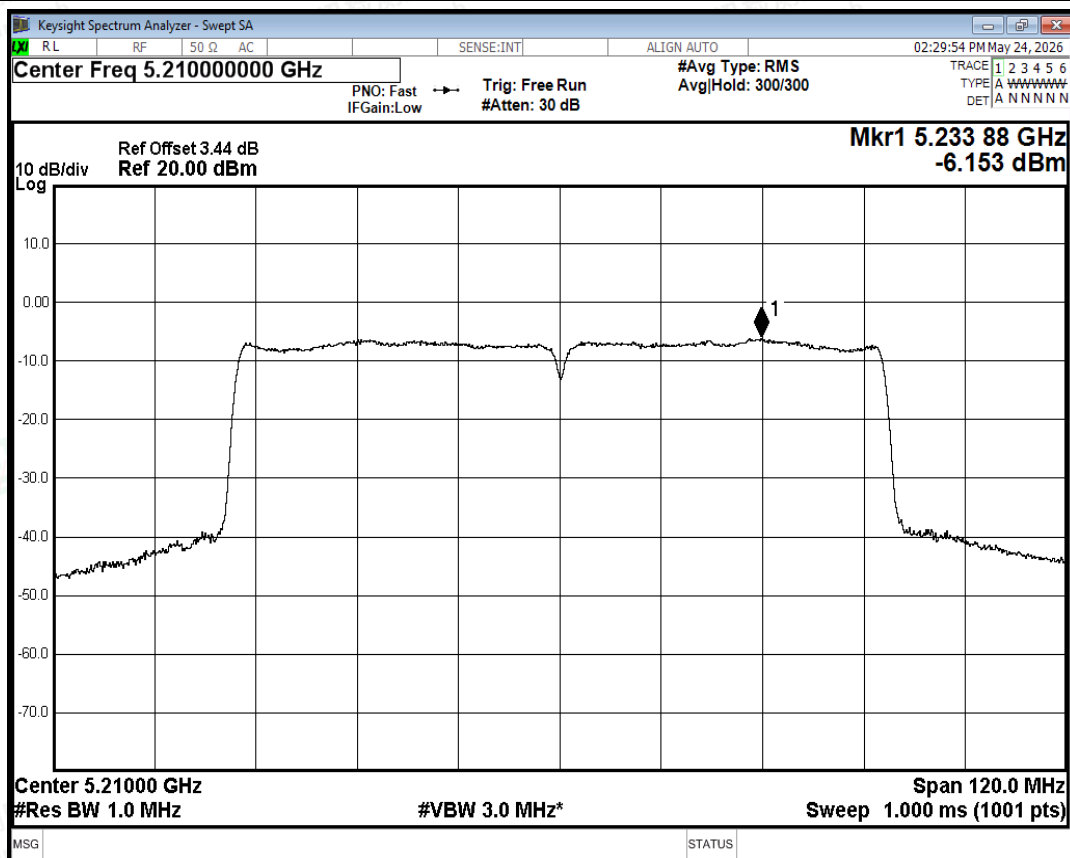


PSD NVNT ac40 5190MHz Ant2





PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant2



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D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-59.35	2	37.88	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-68.47	2	28.76	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-43.01	2	54.22	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-50.1	2	47.13	Average	54	Pass
NVNT	a	5180	Ant1	5150	-39.41	2	57.82	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-49.65	2	47.58	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.12	2	48.11	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-55.86	2	41.37	Average	54	Pass
NVNT	a	5240	Ant1	5395.68	-46.47	2	50.76	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.08	-55.86	2	41.37	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.66	2	46.57	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-56.82	2	40.41	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.63	2	46.6	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.4	2	38.83	Average	54	Pass
NVNT	n20	5180	Ant1	5148.9	-37.97	2	59.26	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-44.62	2	52.61	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-40.95	2	56.28	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-44.28	2	52.95	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.2	2	48.03	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.2	2	41.03	Average	54	Pass
NVNT	n20	5240	Ant1	5452.08	-46.94	2	50.29	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5351.28	-55.73	2	41.5	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.19	2	47.04	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.76	2	40.47	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-61.22	2	36.01	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-67.87	2	29.36	Average	54	Pass
NVNT	n40	5190	Ant1	5148.24	-41.44	2	55.79	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-47.09	2	50.14	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-38.89	2	58.34	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-46.29	2	50.94	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.48	2	47.75	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.68	2	40.55	Average	54	Pass
NVNT	n40	5230	Ant1	5397.36	-46.68	2	50.55	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5459.46	-56.49	2	40.74	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.13	2	48.1	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.83	2	40.4	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-51.03	2	46.2	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.35	2	38.88	Average	54	Pass
NVNT	ac20	5180	Ant1	5149.6	-37.2	2	60.03	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-44.27	2	52.96	Average	54	Pass



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NVNT	ac20	5180	Ant1	5150	-38.63	2	58.6	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-44.11	2	53.12	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.74	2	47.49	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.12	2	41.11	Average	54	Pass
NVNT	ac20	5240	Ant1	5454.24	-47.22	2	50.01	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5351.04	-55.92	2	41.31	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.73	2	47.5	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.63	2	40.6	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-51	2	46.23	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.09	2	39.14	Average	54	Pass
NVNT	ac40	5190	Ant1	5148.97	-42.24	2	54.99	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-47.09	2	50.14	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-39.93	2	57.3	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-46.84	2	50.39	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.44	2	47.79	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.25	2	40.98	Average	54	Pass
NVNT	ac40	5230	Ant1	5443.26	-46.82	2	50.41	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5435.97	-55.9	2	41.33	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.46	2	47.77	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.58	2	40.65	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-48.91	2	48.32	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-54.59	2	42.64	Average	54	Pass
NVNT	ac80	5210	Ant1	5359.68	-46.48	2	50.75	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5351.1	-54.19	2	43.04	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.36	2	47.87	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.06	2	41.17	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-52.45	2	44.78	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.64	2	39.59	Average	54	Pass
NVNT	ac80	5210	Ant1	5148.59	-36.01	2	61.22	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-43.97	2	53.26	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-37.01	2	60.22	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-44.03	2	53.2	Average	54	Pass

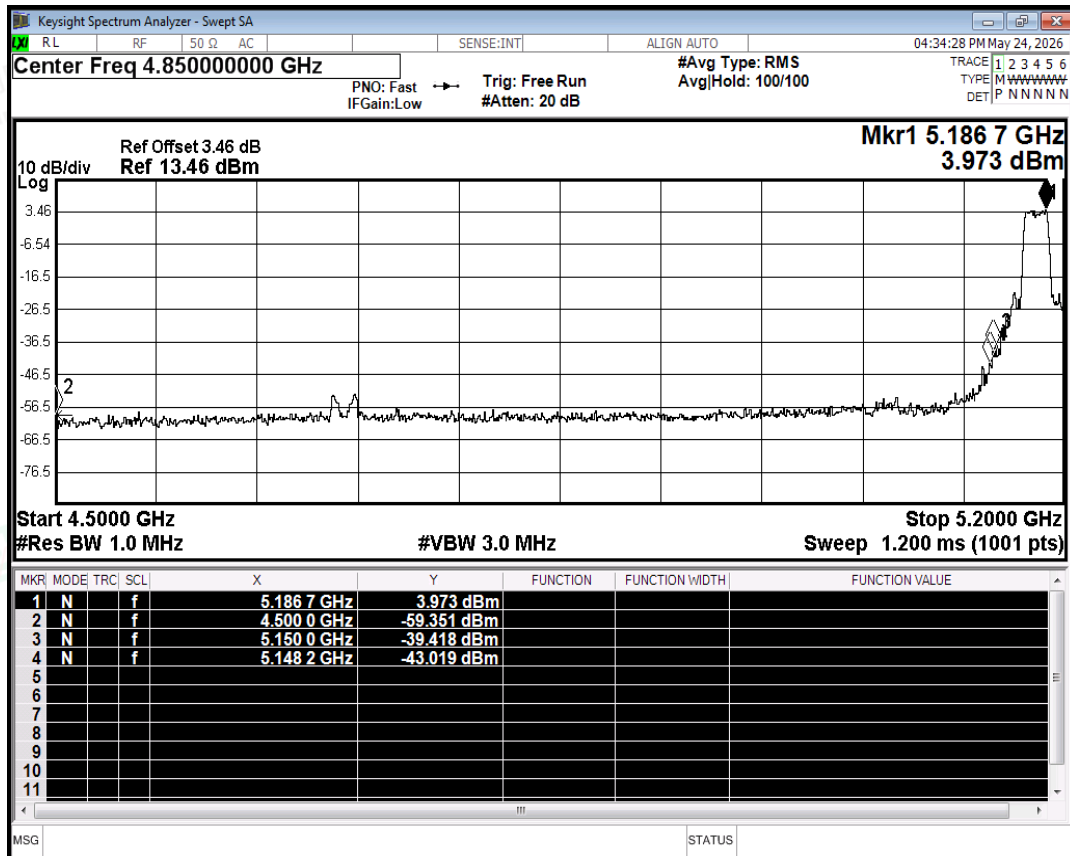


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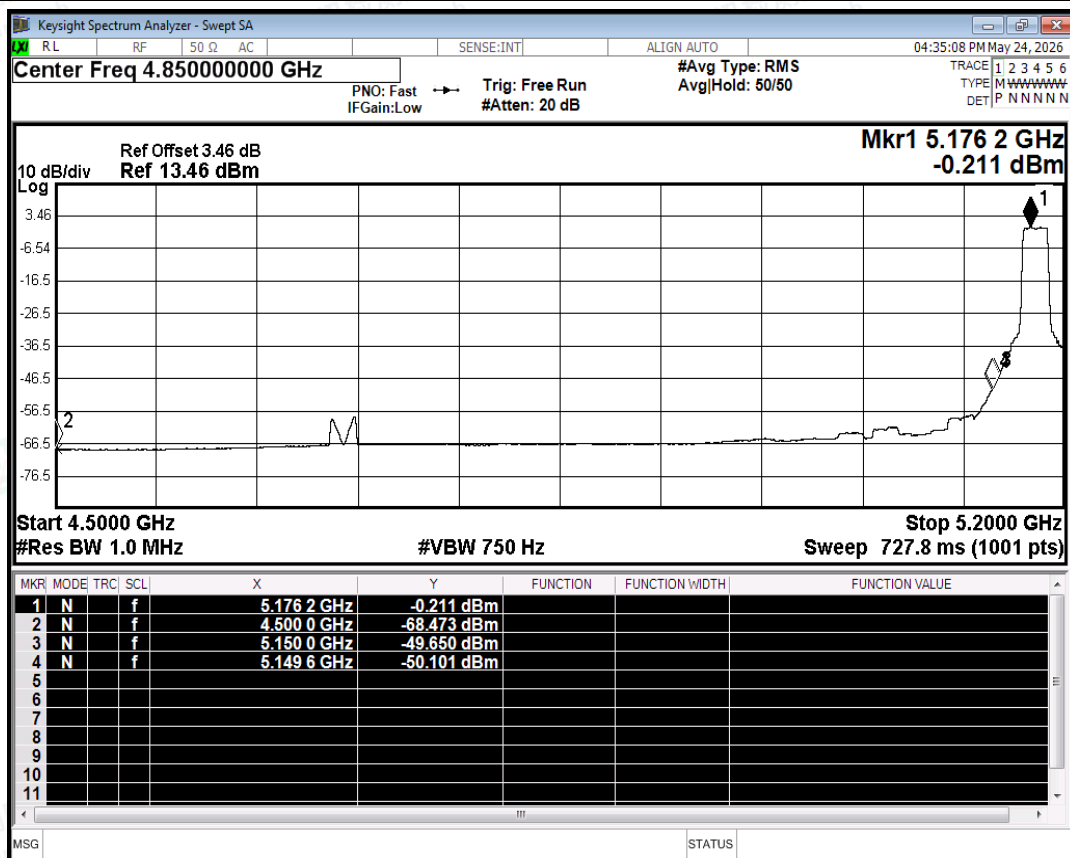
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Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average

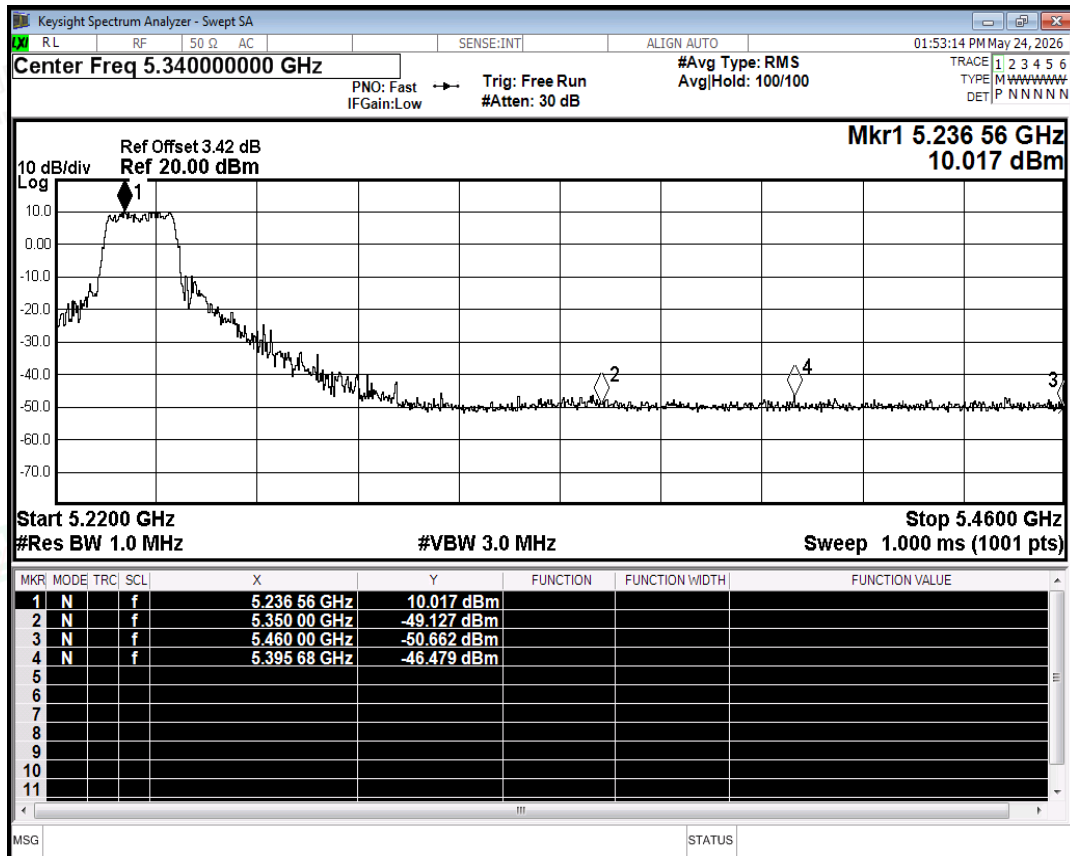


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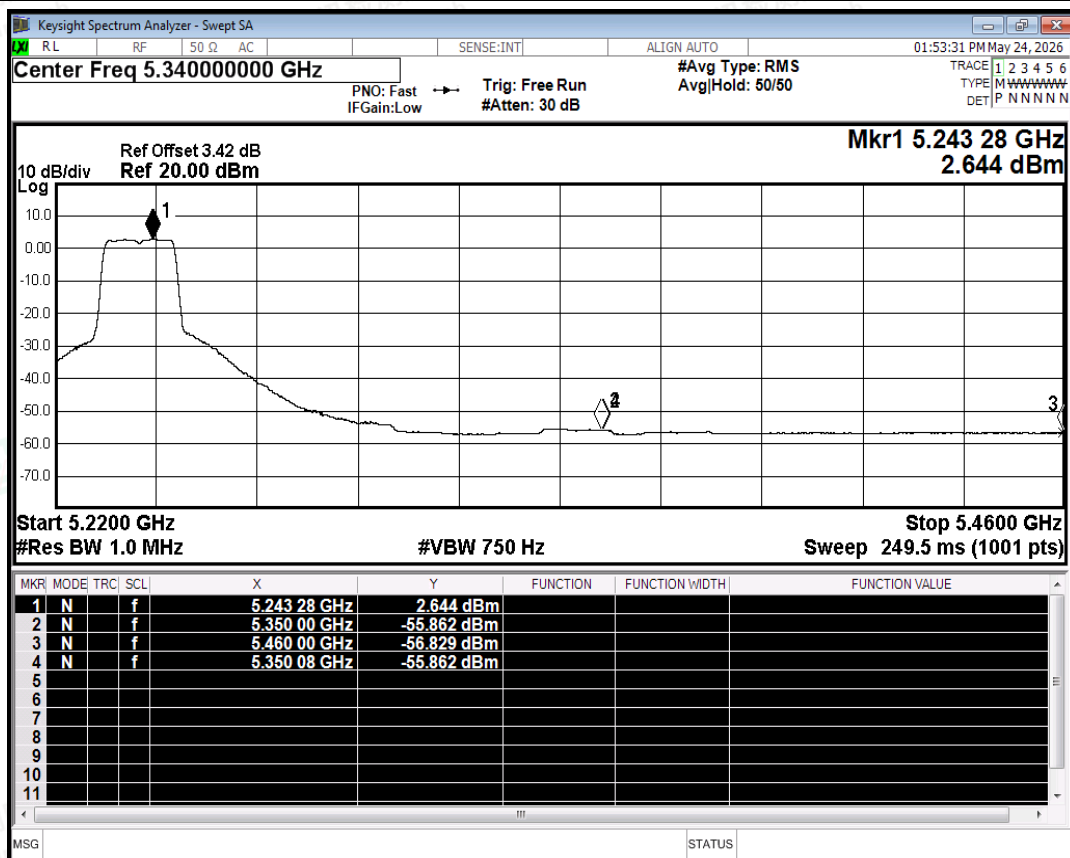
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average

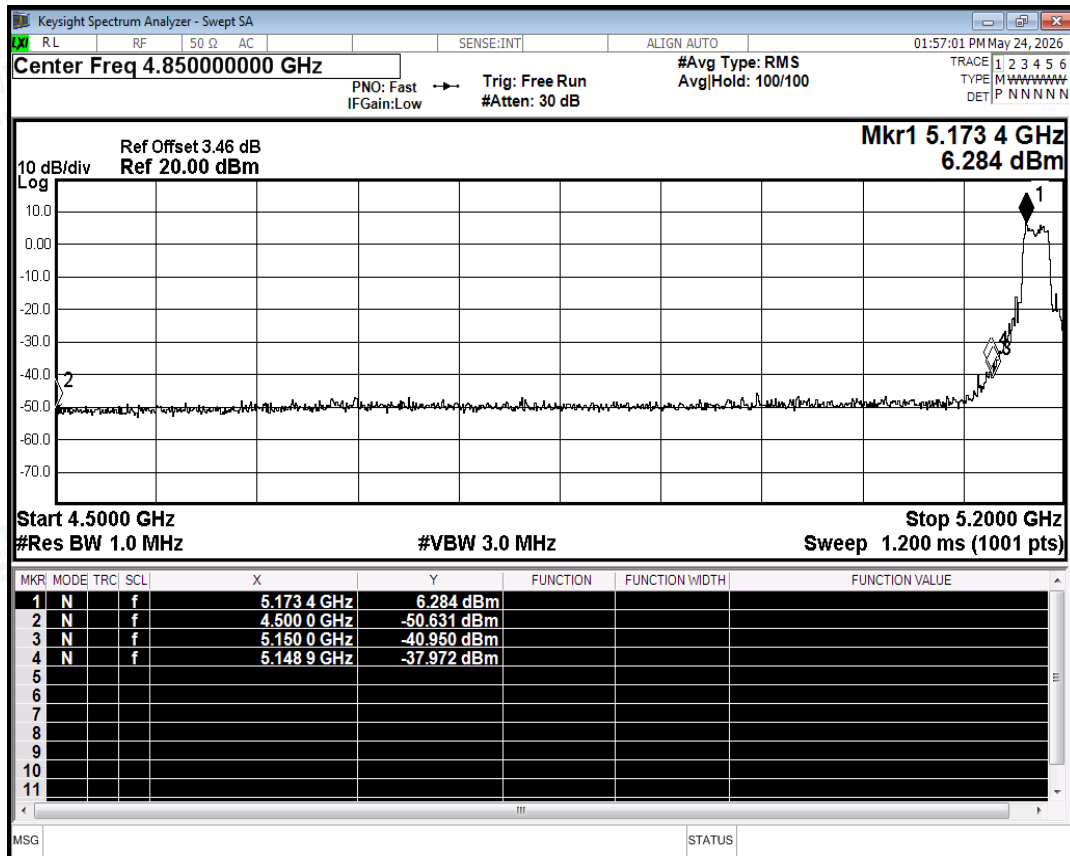


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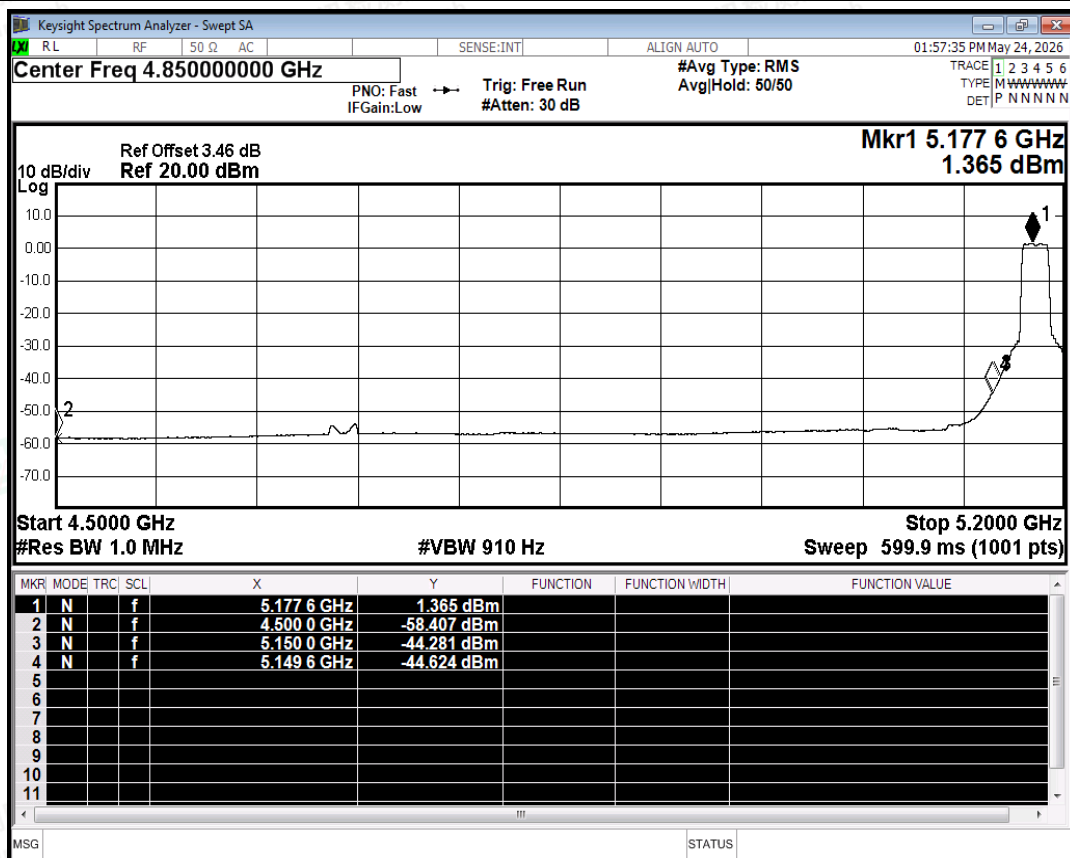
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Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average

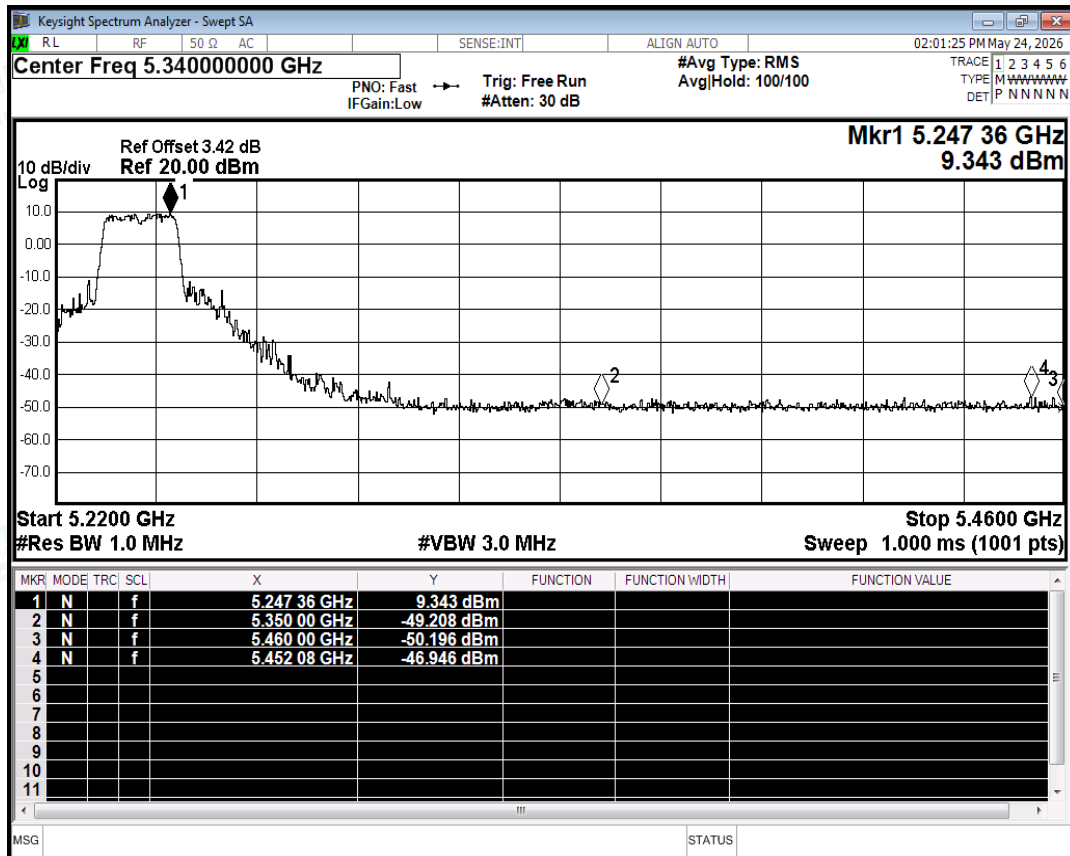


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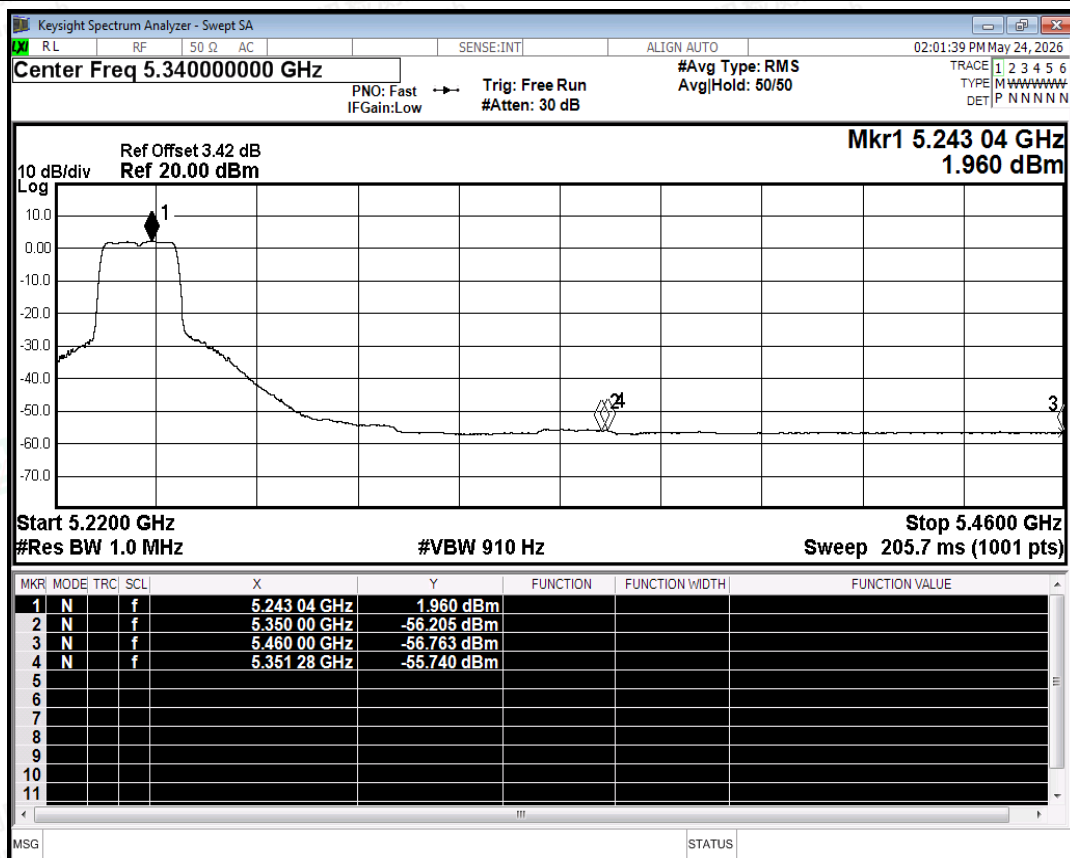
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Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average

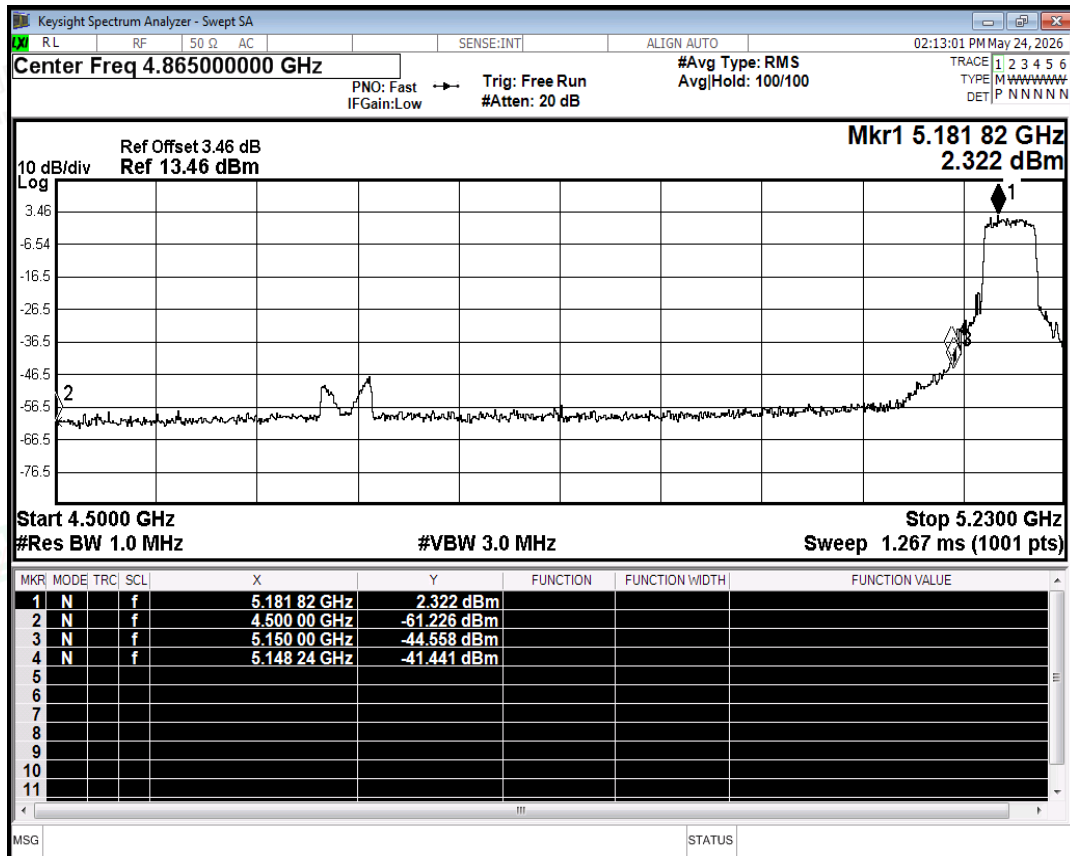


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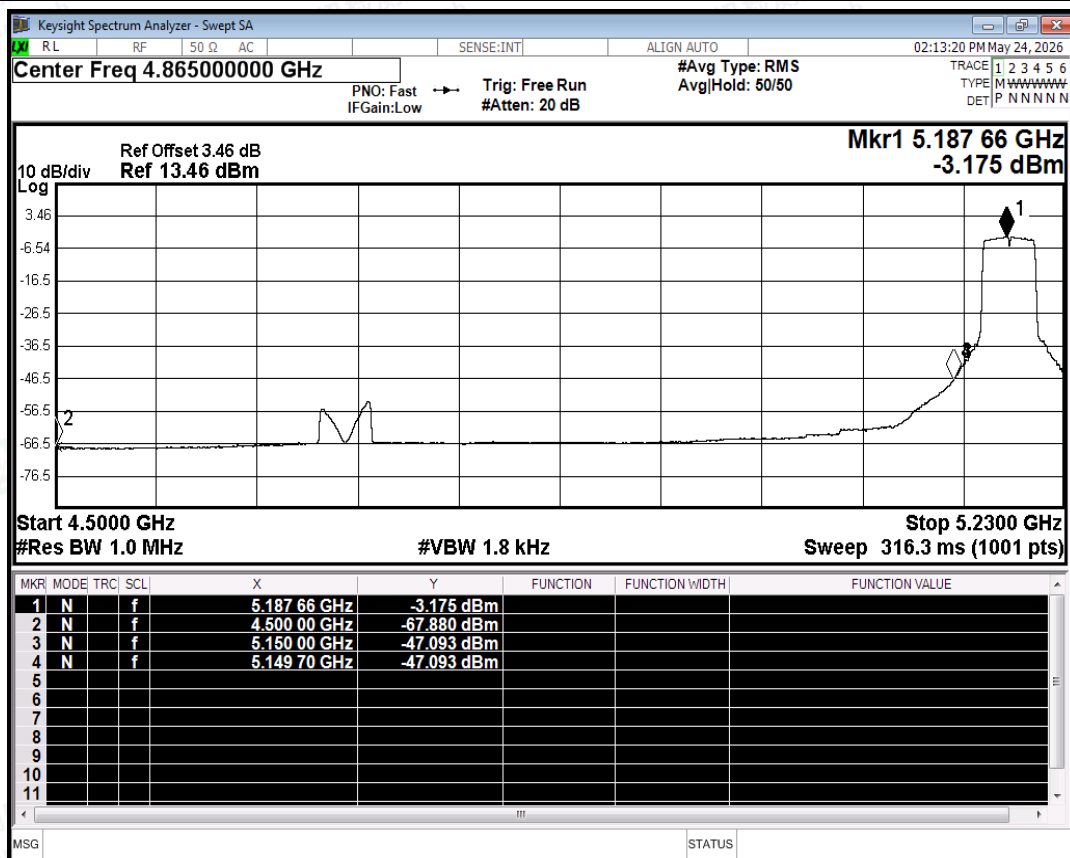
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Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average

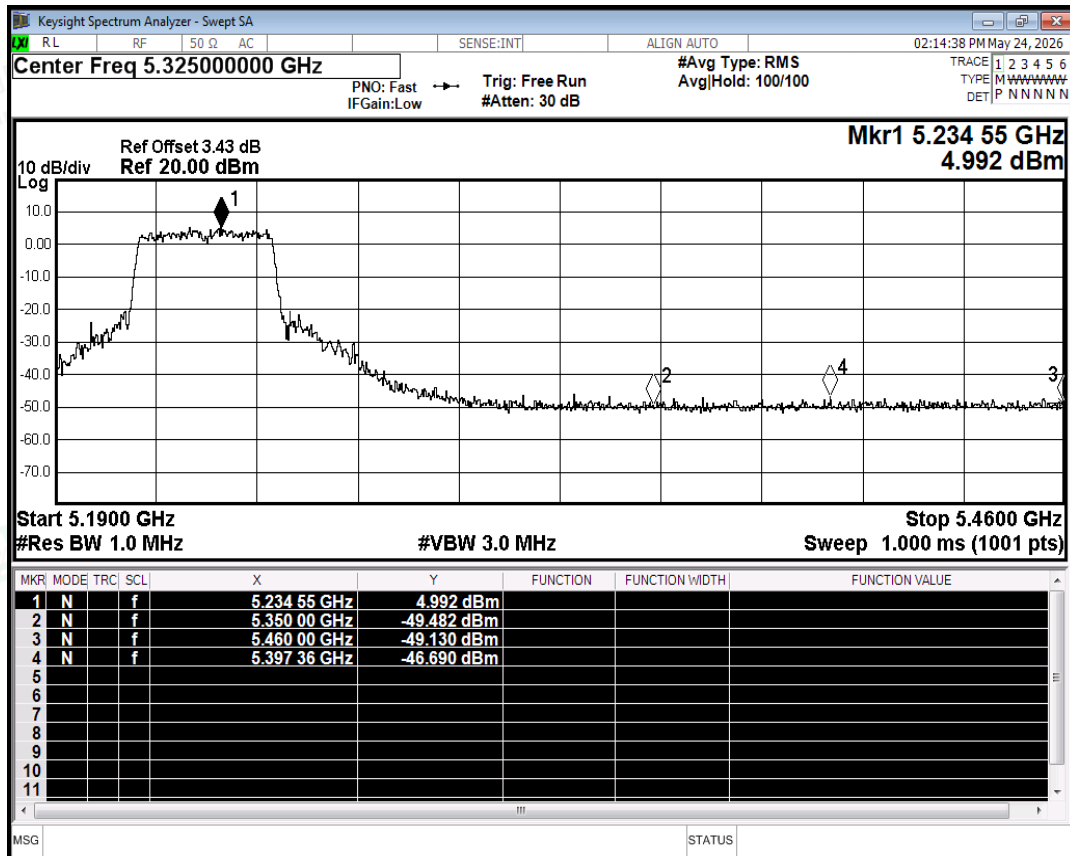


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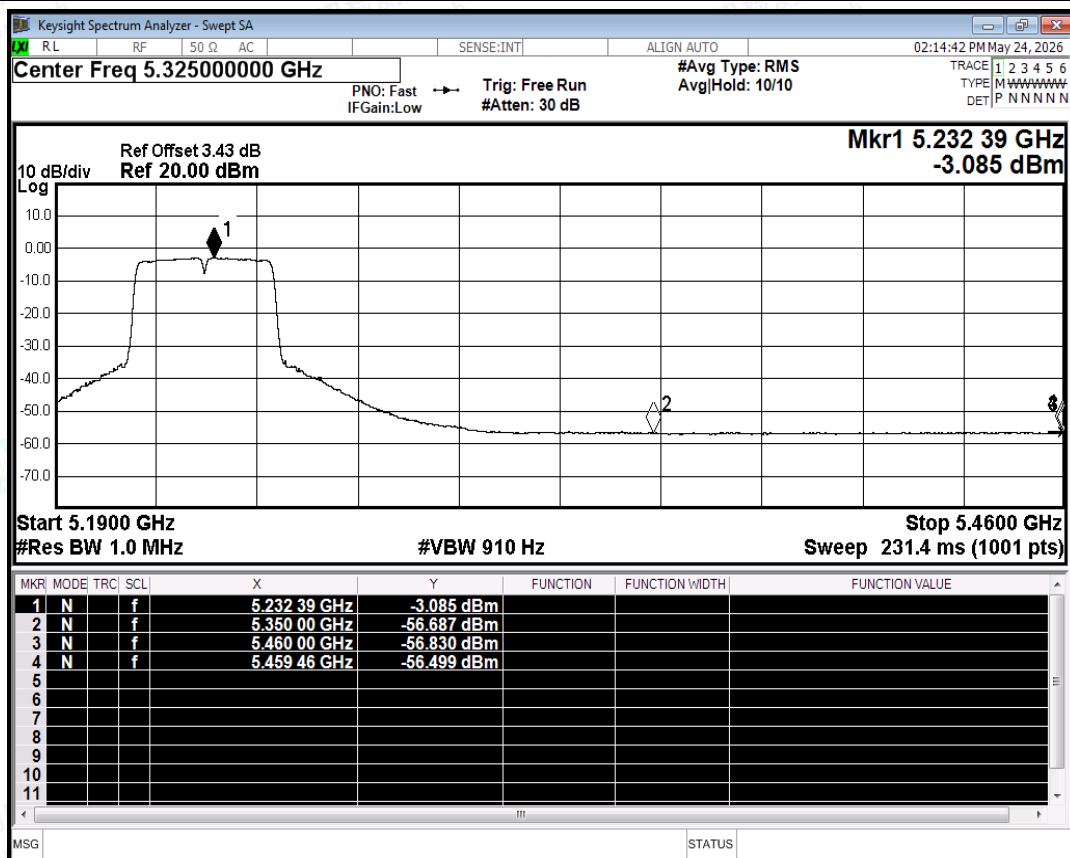
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average

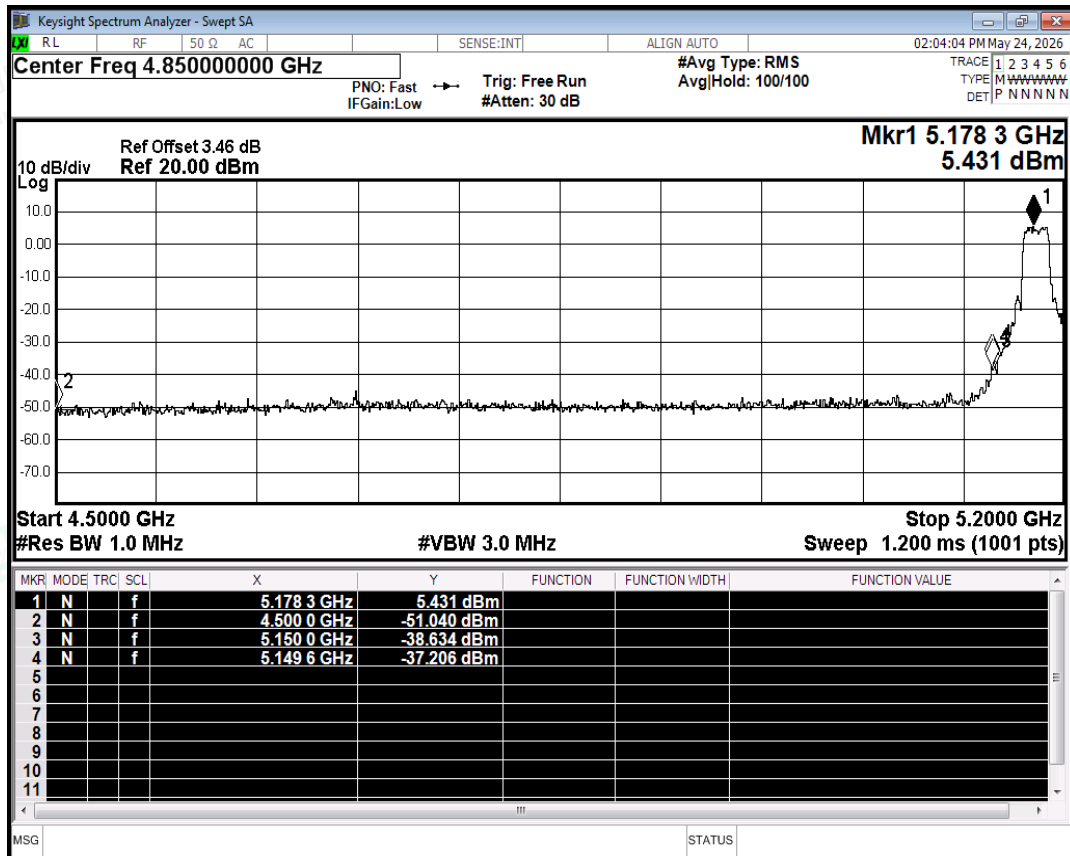


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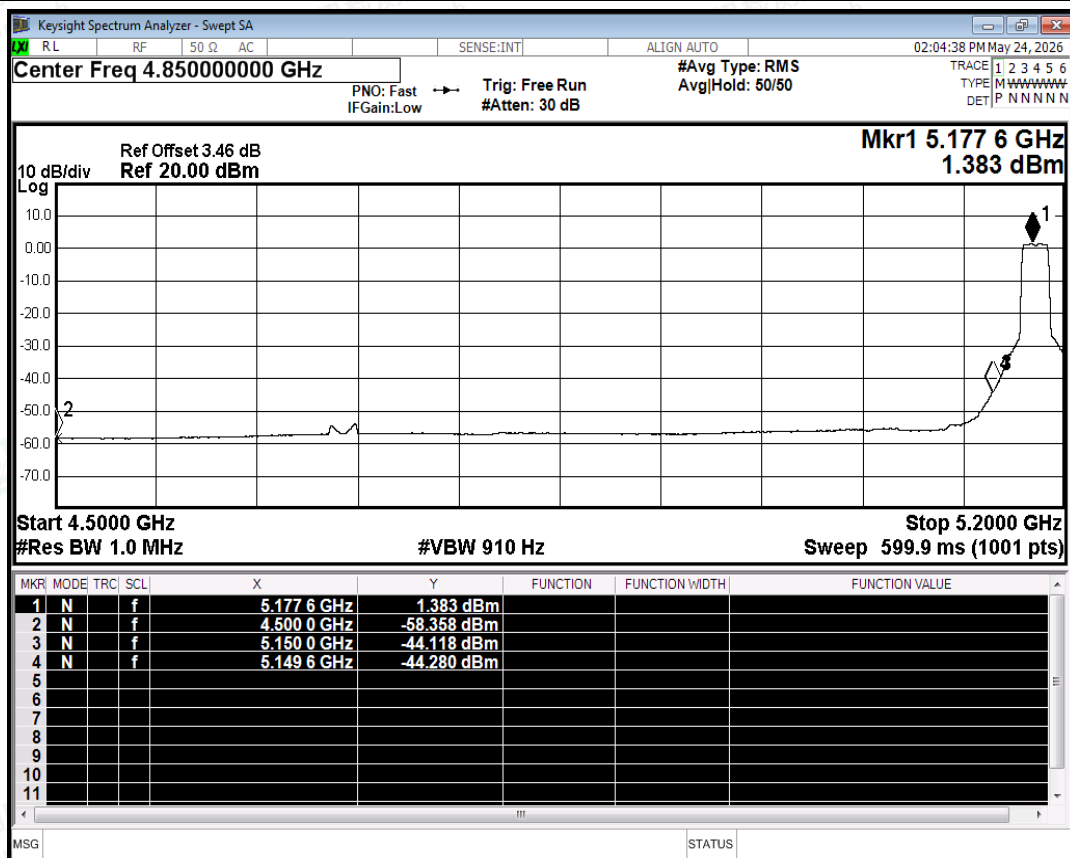
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Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average

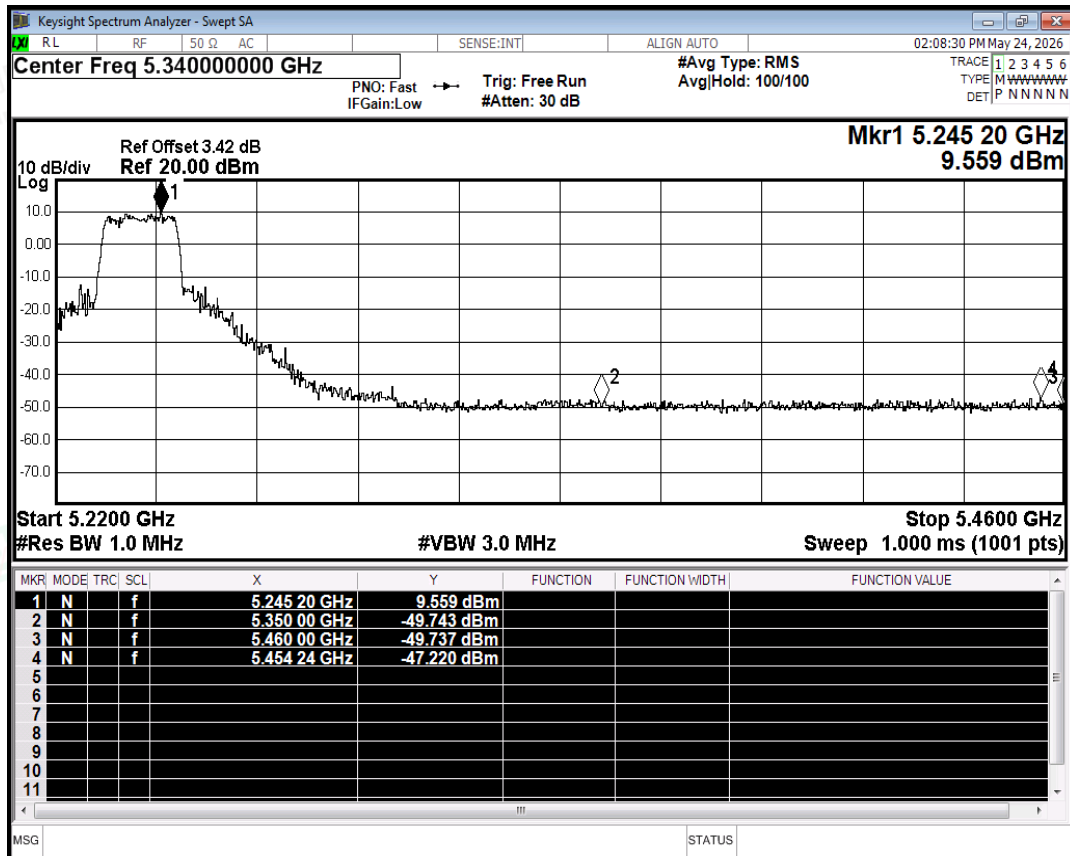


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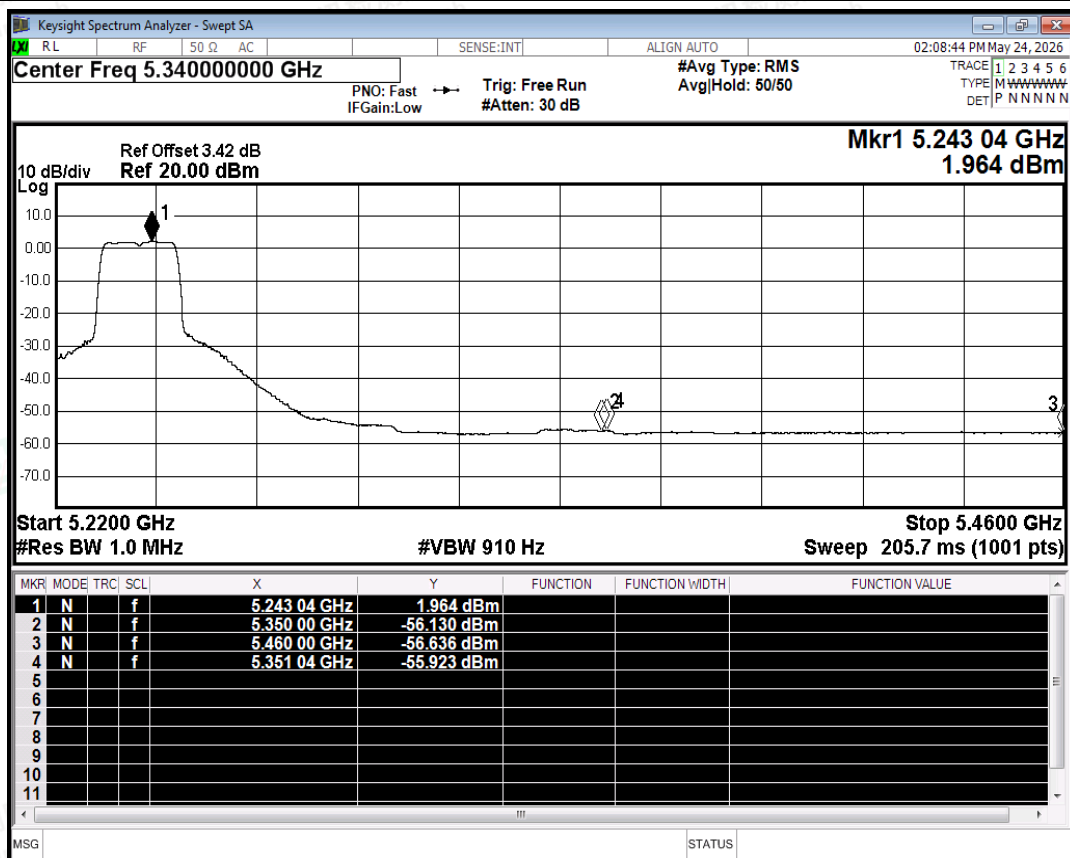
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Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average

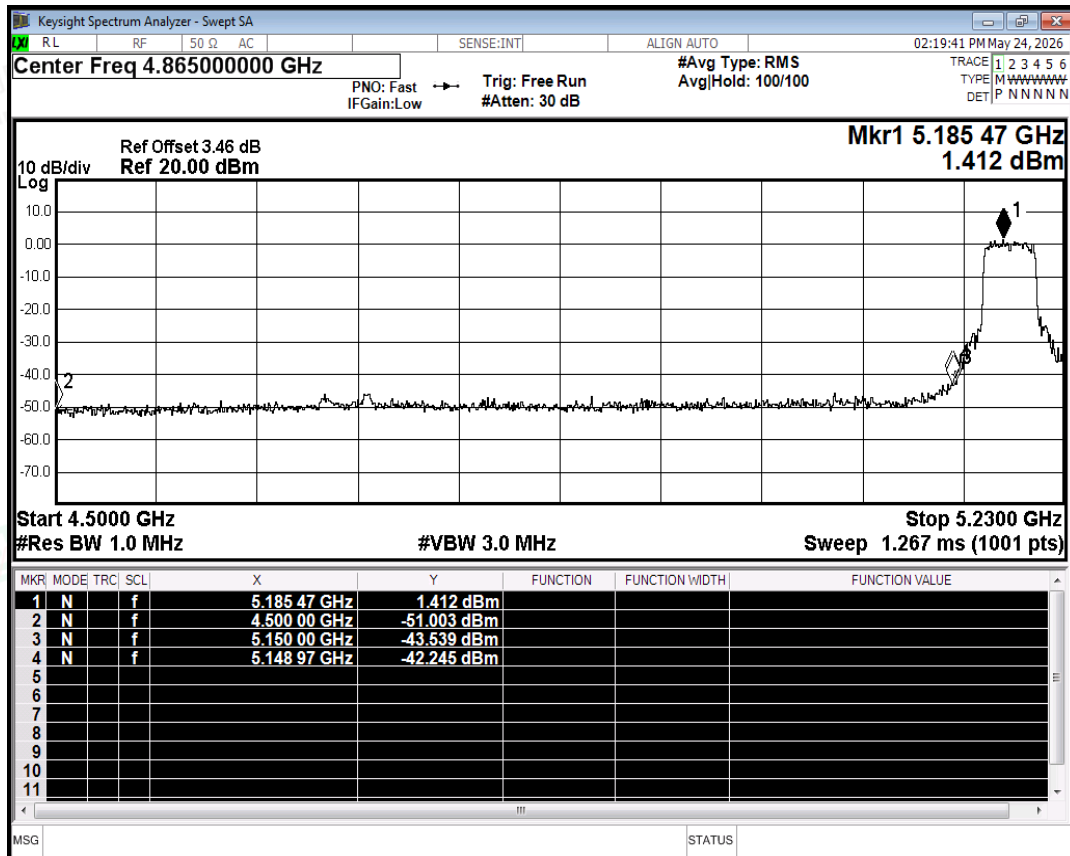


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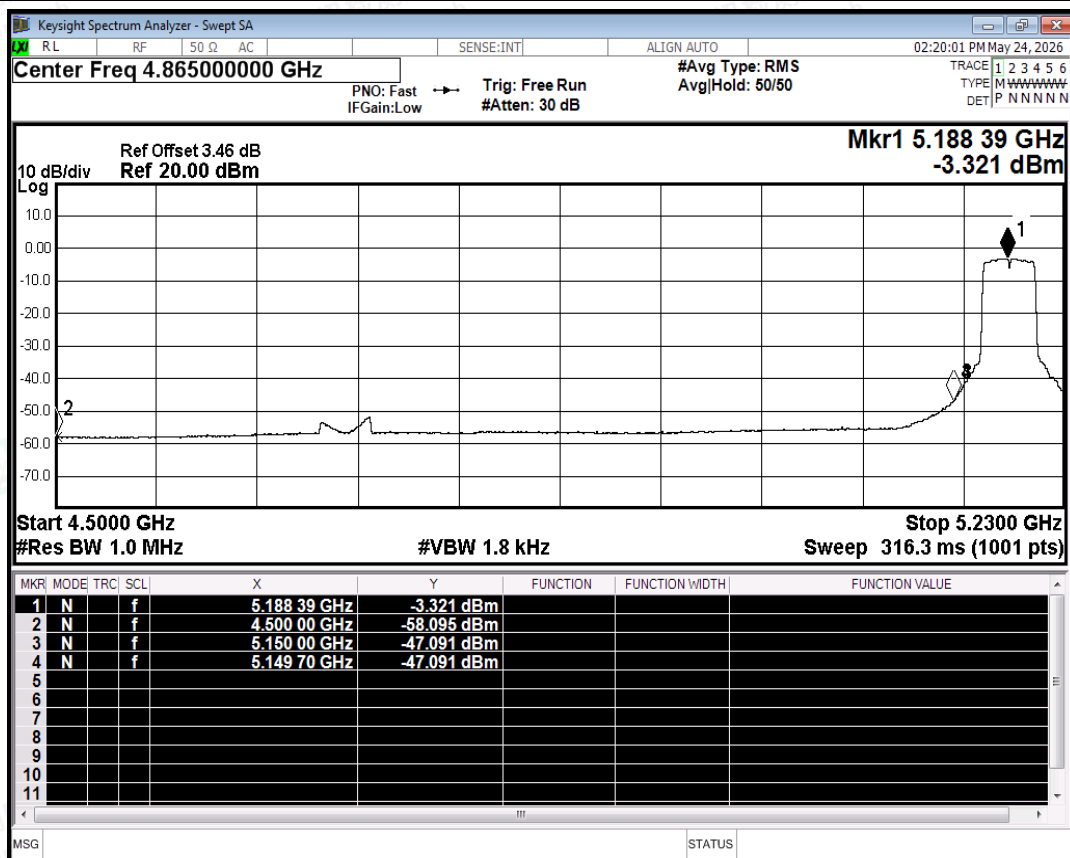
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Restrict Band NVNT ac40 5190MHz Ant1 Peak



Restrict Band NVNT ac40 5190MHz Ant1 Average

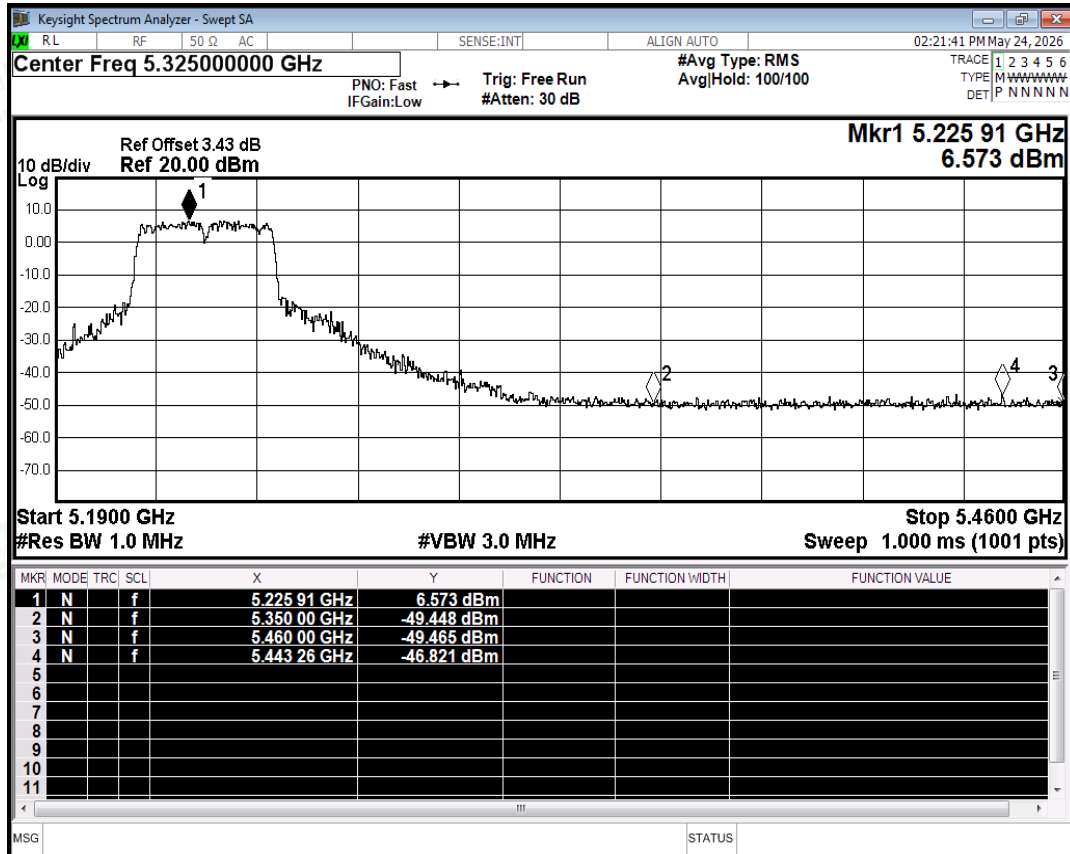


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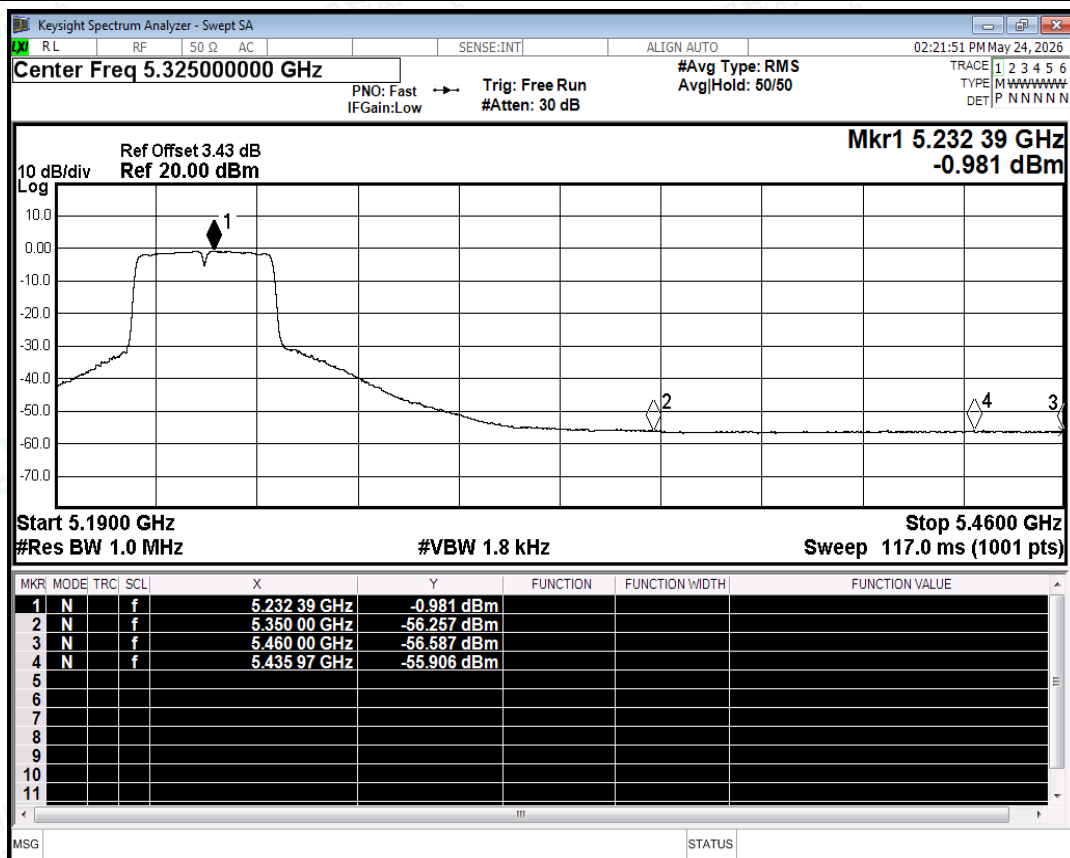
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Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average

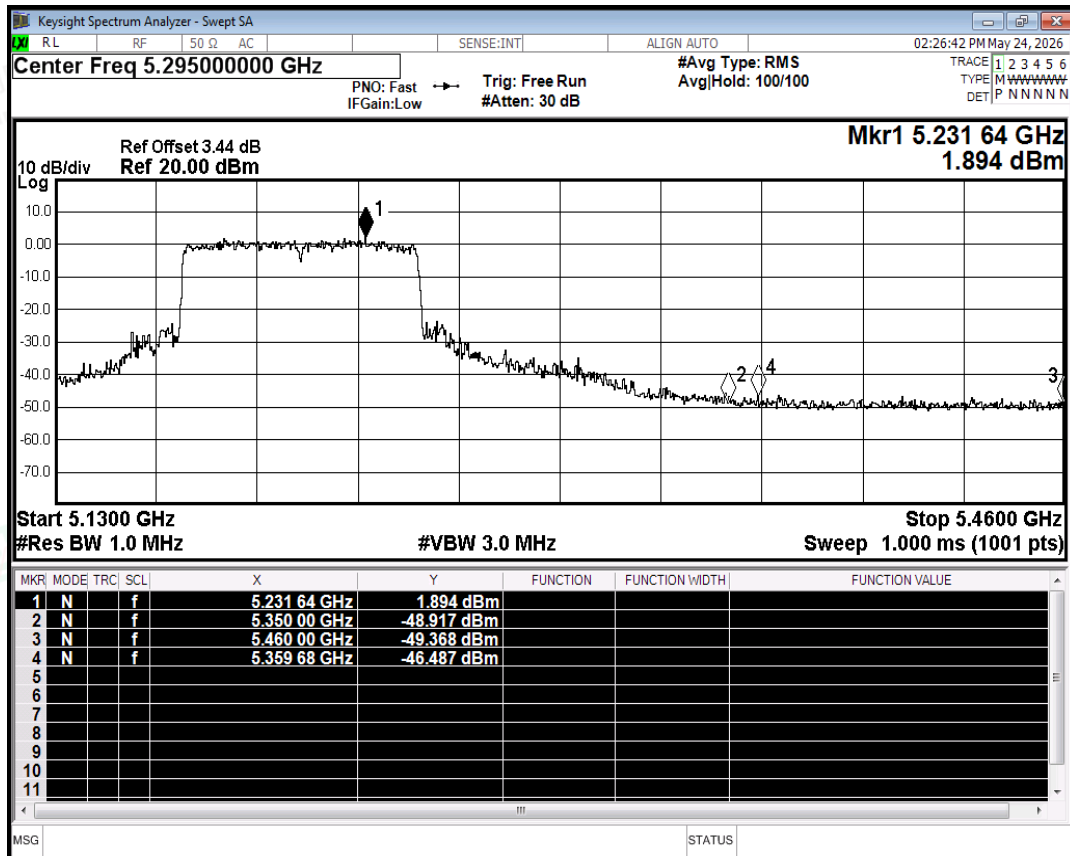


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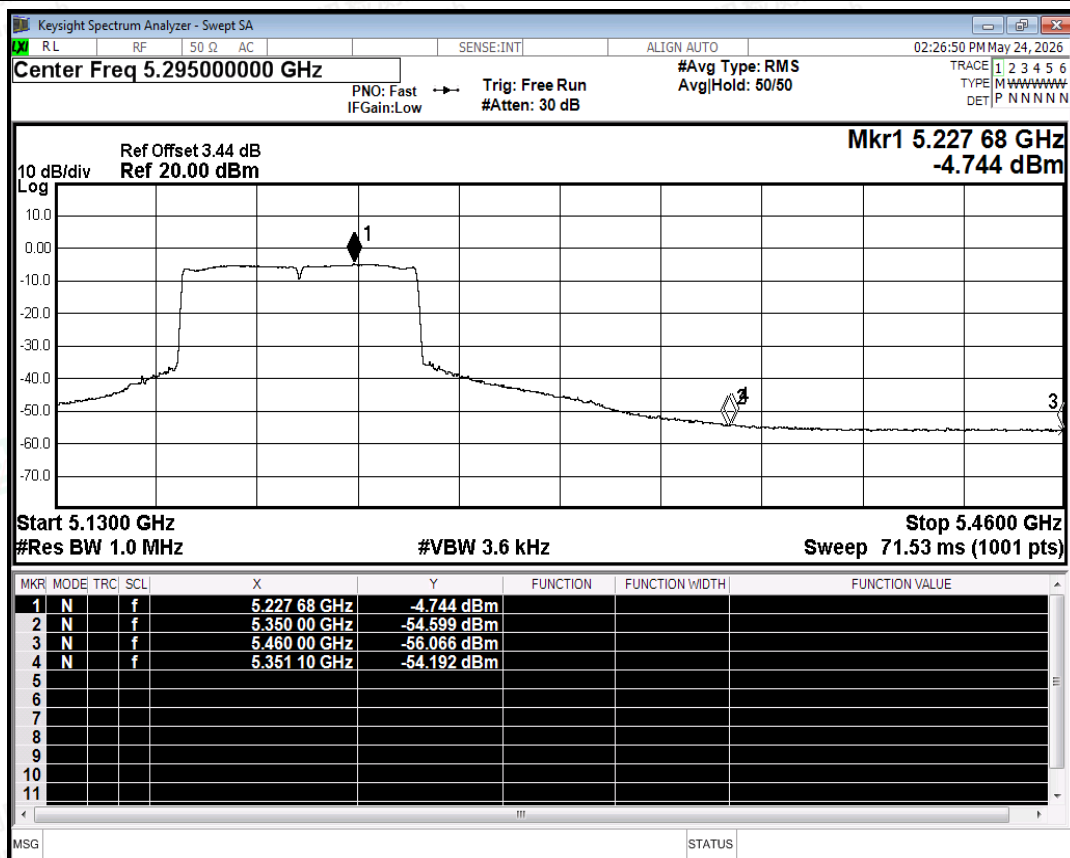
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Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average

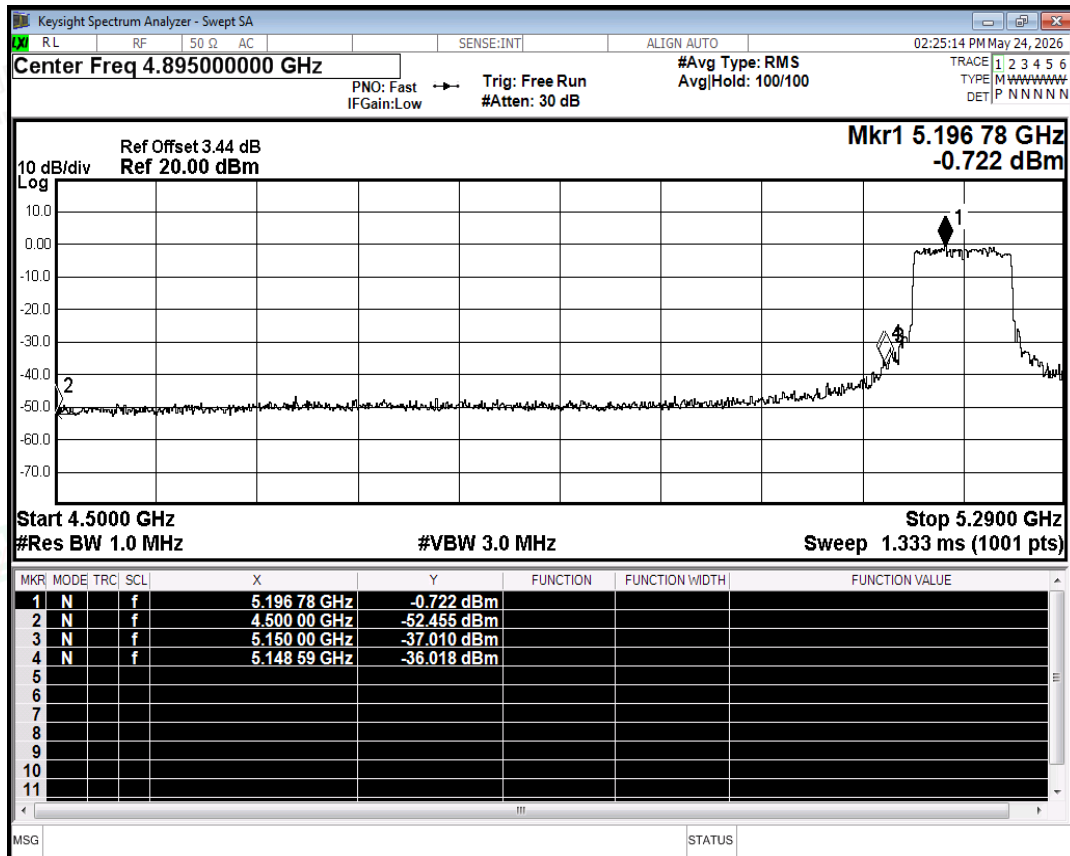


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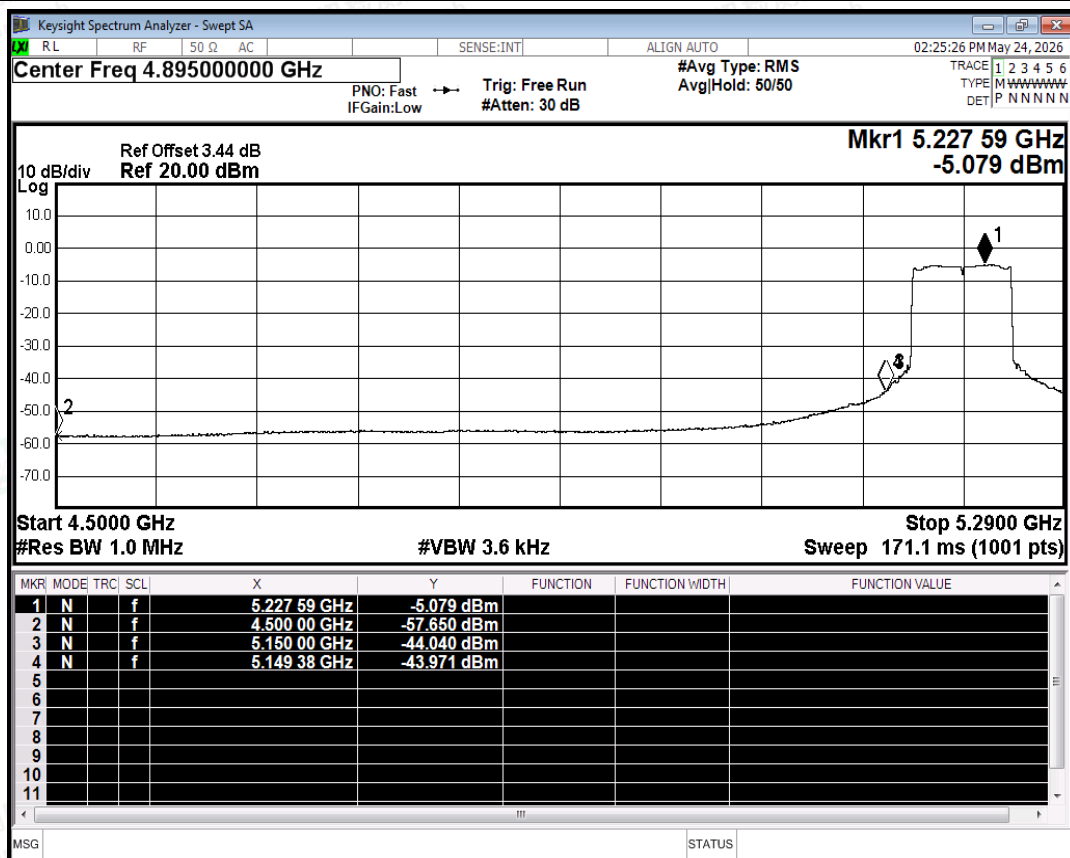
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Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average



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Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant2	4500	-61.3	2	35.93	Peak	68.2	Pass
NVNT	a	5180	Ant2	4500	-68.37	2	28.86	Average	54	Pass
NVNT	a	5180	Ant2	5146.1	-45.28	2	51.95	Peak	68.2	Pass
NVNT	a	5180	Ant2	5149.6	-50.48	2	46.75	Average	54	Pass
NVNT	a	5180	Ant2	5150	-44.74	2	52.49	Peak	68.2	Pass
NVNT	a	5180	Ant2	5150	-49.89	2	47.34	Average	54	Pass
NVNT	a	5240	Ant2	5350	-50.32	2	46.91	Peak	68.2	Pass
NVNT	a	5240	Ant2	5350	-55.81	2	41.42	Average	54	Pass
NVNT	a	5240	Ant2	5369.52	-46.57	2	50.66	Peak	68.2	Pass
NVNT	a	5240	Ant2	5350.08	-55.81	2	41.42	Average	54	Pass
NVNT	a	5240	Ant2	5460	-50.65	2	46.58	Peak	68.2	Pass
NVNT	a	5240	Ant2	5460	-56.78	2	40.45	Average	54	Pass
NVNT	n20	5180	Ant2	4500	-52.01	2	45.22	Peak	68.2	Pass
NVNT	n20	5180	Ant2	4500	-58.39	2	38.84	Average	54	Pass
NVNT	n20	5180	Ant2	5149.6	-40.11	2	57.12	Peak	68.2	Pass
NVNT	n20	5180	Ant2	5149.6	-44.3	2	52.93	Average	54	Pass
NVNT	n20	5180	Ant2	5150	-39.54	2	57.69	Peak	68.2	Pass
NVNT	n20	5180	Ant2	5150	-43.99	2	53.24	Average	54	Pass
NVNT	n20	5240	Ant2	5350	-49.51	2	47.72	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5350	-56.01	2	41.22	Average	54	Pass
NVNT	n20	5240	Ant2	5396.88	-47.05	2	50.18	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5351.76	-55.81	2	41.42	Average	54	Pass
NVNT	n20	5240	Ant2	5460	-49.28	2	47.95	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5460	-56.8	2	40.43	Average	54	Pass
NVNT	n40	5190	Ant2	4500	-60.95	2	36.28	Peak	68.2	Pass
NVNT	n40	5190	Ant2	4500	-68.01	2	29.22	Average	54	Pass
NVNT	n40	5190	Ant2	5148.97	-40.37	2	56.86	Peak	68.2	Pass
NVNT	n40	5190	Ant2	5149.7	-47.4	2	49.83	Average	54	Pass
NVNT	n40	5190	Ant2	5150	-35.39	2	61.84	Peak	68.2	Pass
NVNT	n40	5190	Ant2	5150	-46.99	2	50.24	Average	54	Pass
NVNT	n40	5230	Ant2	5350	-49.61	2	47.62	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5350	-56.02	2	41.21	Average	54	Pass
NVNT	n40	5230	Ant2	5393.58	-47.36	2	49.87	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5350.38	-55.95	2	41.28	Average	54	Pass
NVNT	n40	5230	Ant2	5460	-49.6	2	47.63	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5460	-56.55	2	40.68	Average	54	Pass
NVNT	ac20	5180	Ant2	4500	-50.63	2	46.6	Peak	68.2	Pass
NVNT	ac20	5180	Ant2	4500	-58.27	2	38.96	Average	54	Pass
NVNT	ac20	5180	Ant2	5145.4	-36.99	2	60.24	Peak	68.2	Pass
NVNT	ac20	5180	Ant2	5149.6	-44.59	2	52.64	Average	54	Pass
NVNT	ac20	5180	Ant2	5150	-37.58	2	59.65	Peak	68.2	Pass





NVNT	ac20	5180	Ant2	5150	-44.03	2	53.2	Average	54	Pass
NVNT	ac20	5240	Ant2	5350	-49.27	2	47.96	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5350	-56	2	41.23	Average	54	Pass
NVNT	ac20	5240	Ant2	5416.8	-46.81	2	50.42	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5351.04	-55.83	2	41.4	Average	54	Pass
NVNT	ac20	5240	Ant2	5460	-49.97	2	47.26	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5460	-56.68	2	40.55	Average	54	Pass
NVNT	ac40	5190	Ant2	4500	-50.04	2	47.19	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	4500	-58.1	2	39.13	Average	54	Pass
NVNT	ac40	5190	Ant2	5149.7	-38.64	2	58.59	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	5149.7	-46.81	2	50.42	Average	54	Pass
NVNT	ac40	5190	Ant2	5150	-41.61	2	55.62	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	5150	-46.49	2	50.74	Average	54	Pass
NVNT	ac40	5230	Ant2	5350	-50.04	2	47.19	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5350	-56.17	2	41.06	Average	54	Pass
NVNT	ac40	5230	Ant2	5450.28	-46.42	2	50.81	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5351.19	-55.79	2	41.44	Average	54	Pass
NVNT	ac40	5230	Ant2	5460	-49.68	2	47.55	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5460	-56.59	2	40.64	Average	54	Pass
NVNT	ac80	5210	Ant2	5350	-48.72	2	48.51	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	5350	-54.35	2	42.88	Average	54	Pass
NVNT	ac80	5210	Ant2	5356.05	-45.39	2	51.84	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	5350.44	-53.75	2	43.48	Average	54	Pass
NVNT	ac80	5210	Ant2	5460	-50.2	2	47.03	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	5460	-55.99	2	41.24	Average	54	Pass
NVNT	ac80	5210	Ant2	4500	-52.01	2	45.22	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	4500	-57.91	2	39.32	Average	54	Pass
NVNT	ac80	5210	Ant2	5147.8	-38.03	2	59.2	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	5149.38	-44.39	2	52.84	Average	54	Pass
NVNT	ac80	5210	Ant2	5150	-38.09	2	59.14	Peak	68.2	Pass
NVNT	ac80	5210	Ant2	5150	-44.15	2	53.08	Average	54	Pass

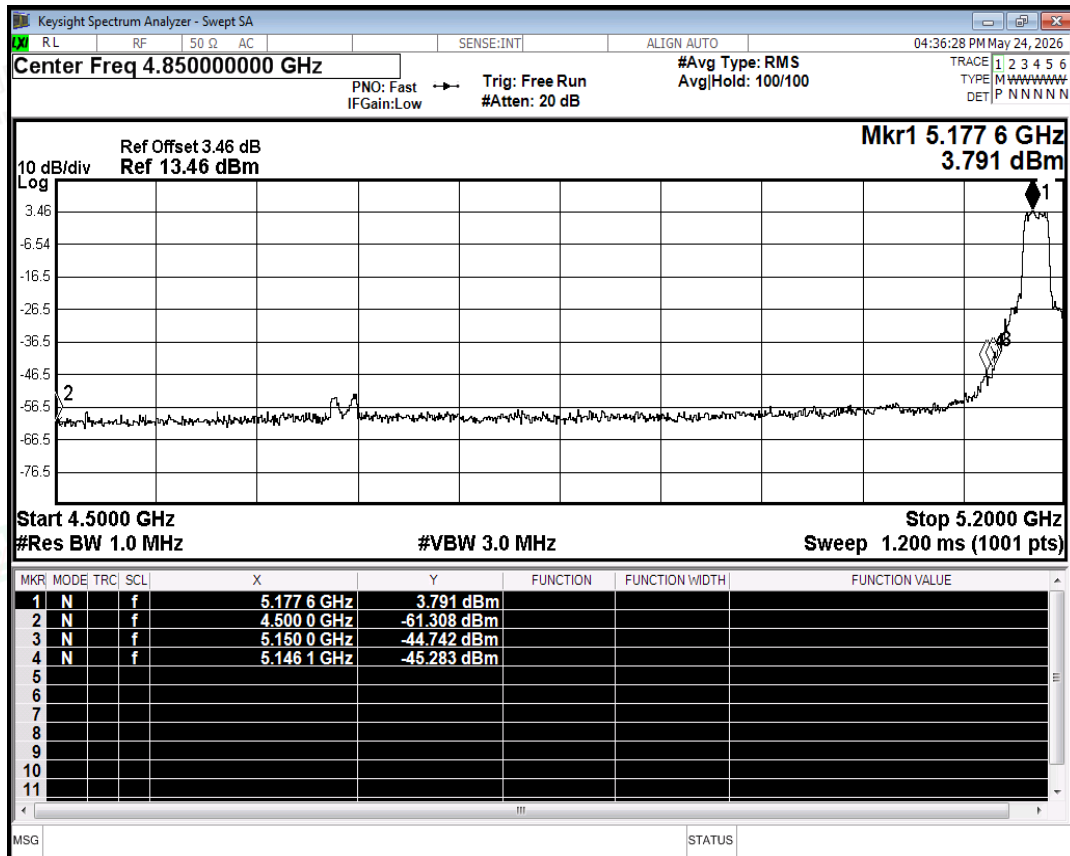


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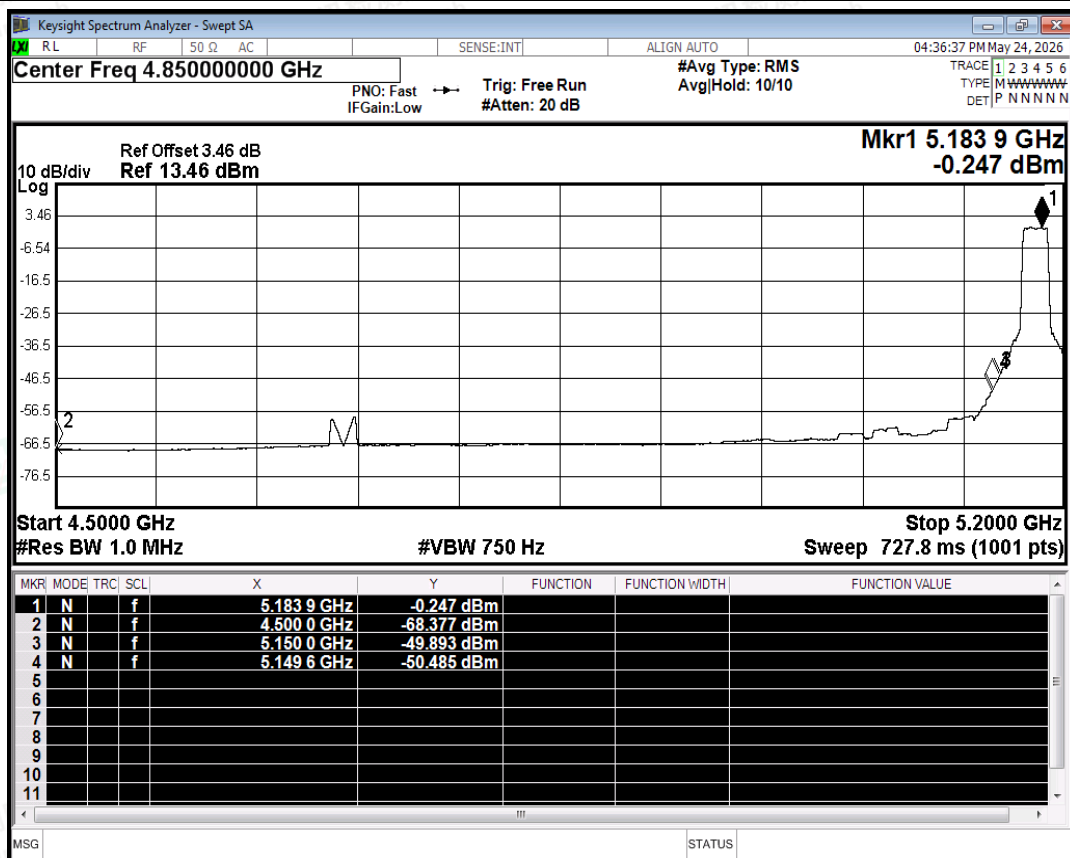
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Restrict Band NVNT a 5180MHz Ant2 Peak



Restrict Band NVNT a 5180MHz Ant2 Average

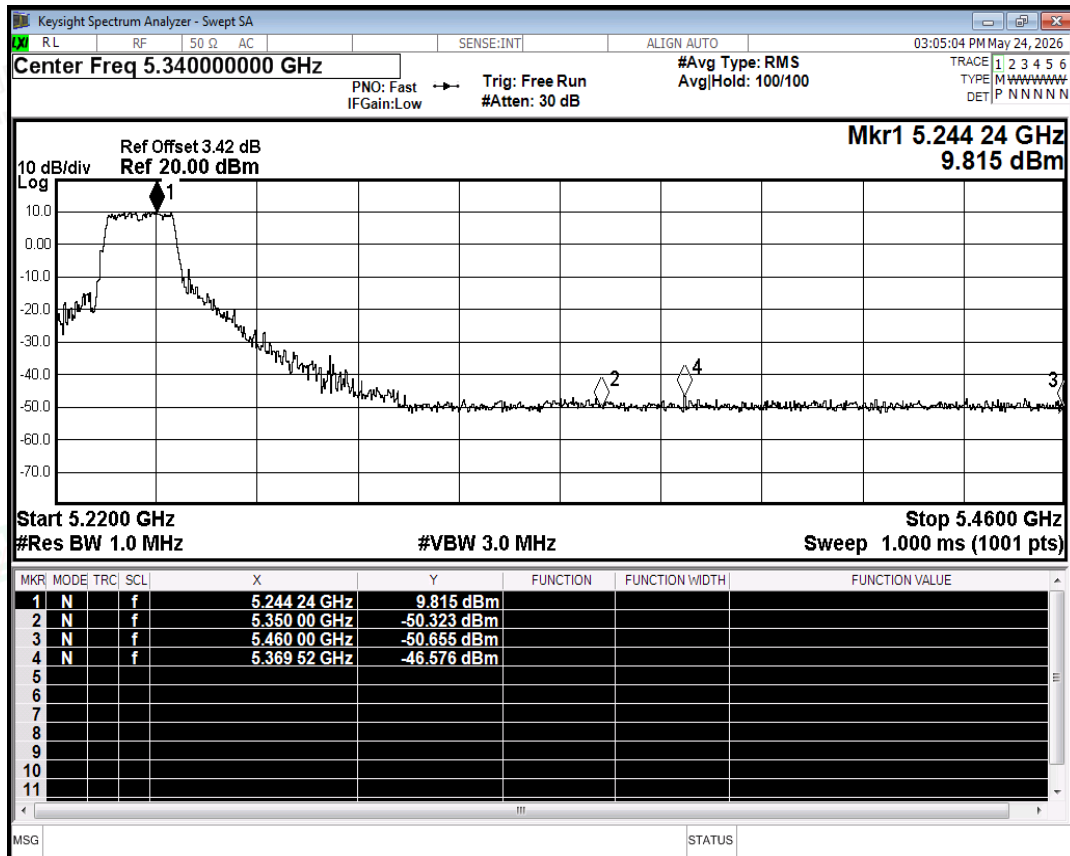


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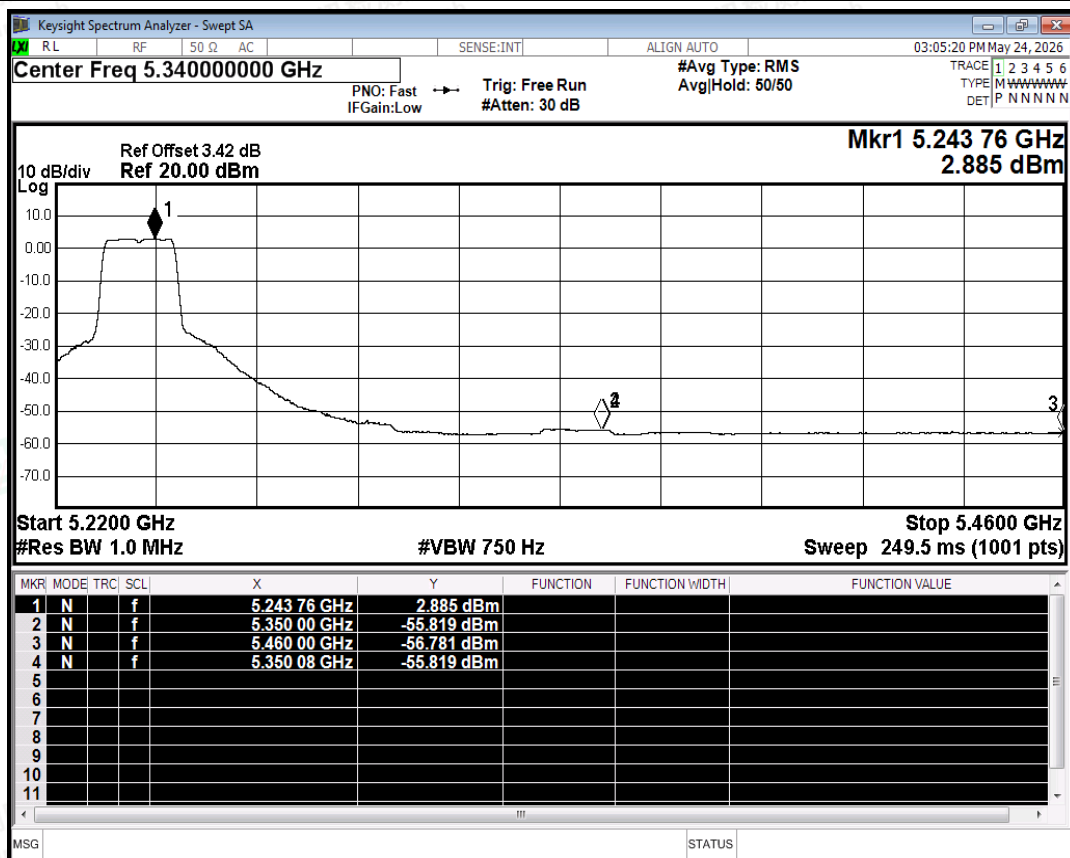
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Restrict Band NVNT a 5240MHz Ant2 Peak



Restrict Band NVNT a 5240MHz Ant2 Average

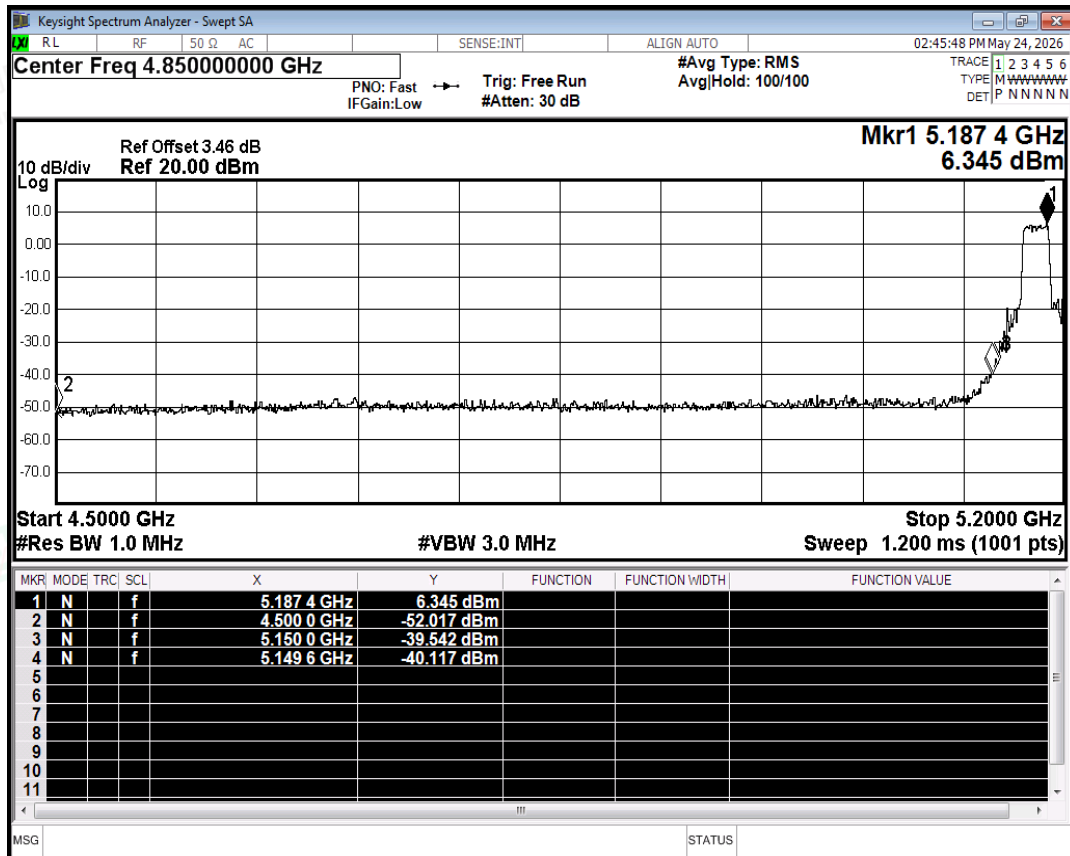


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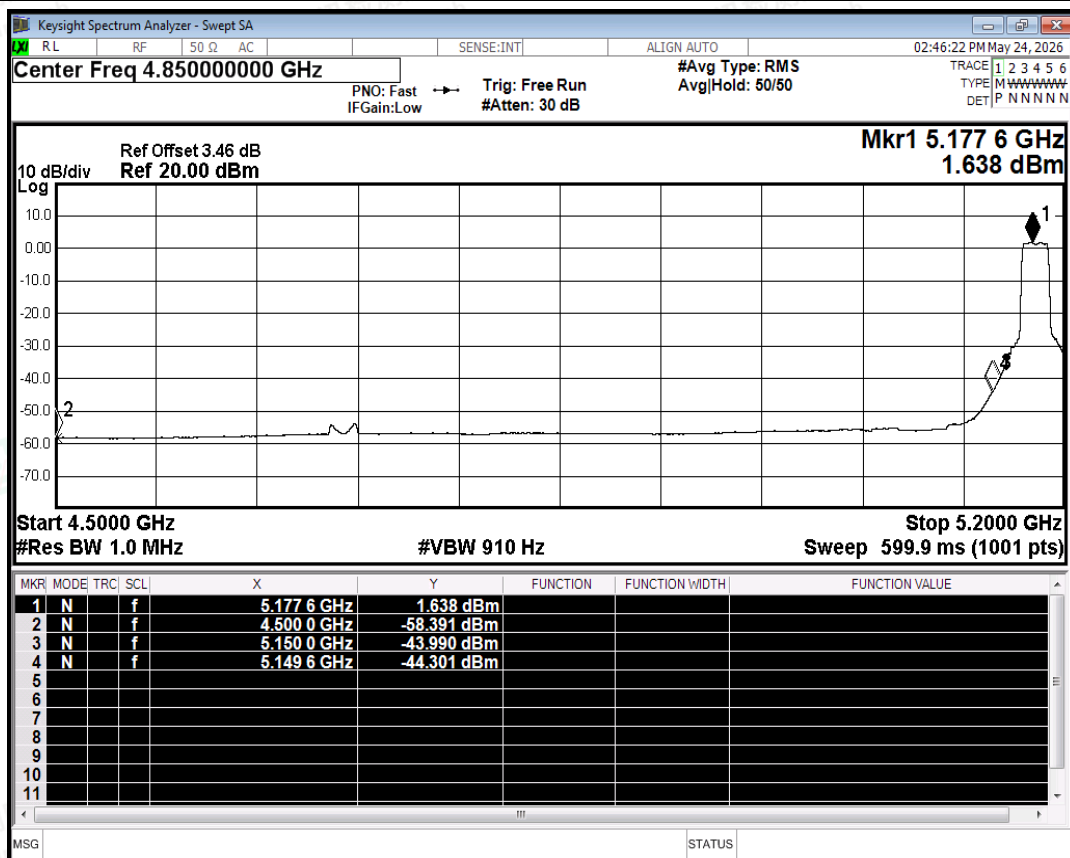
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Restrict Band NVNT n20 5180MHz Ant2 Peak



Restrict Band NVNT n20 5180MHz Ant2 Average

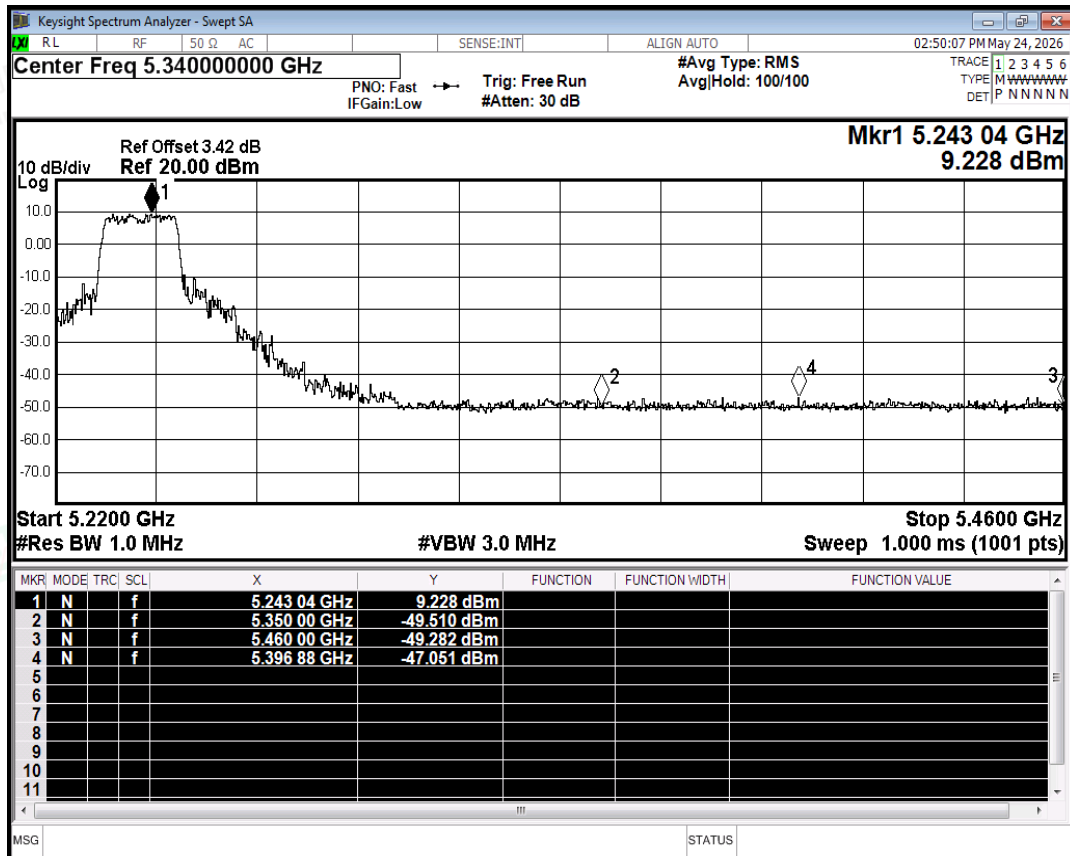


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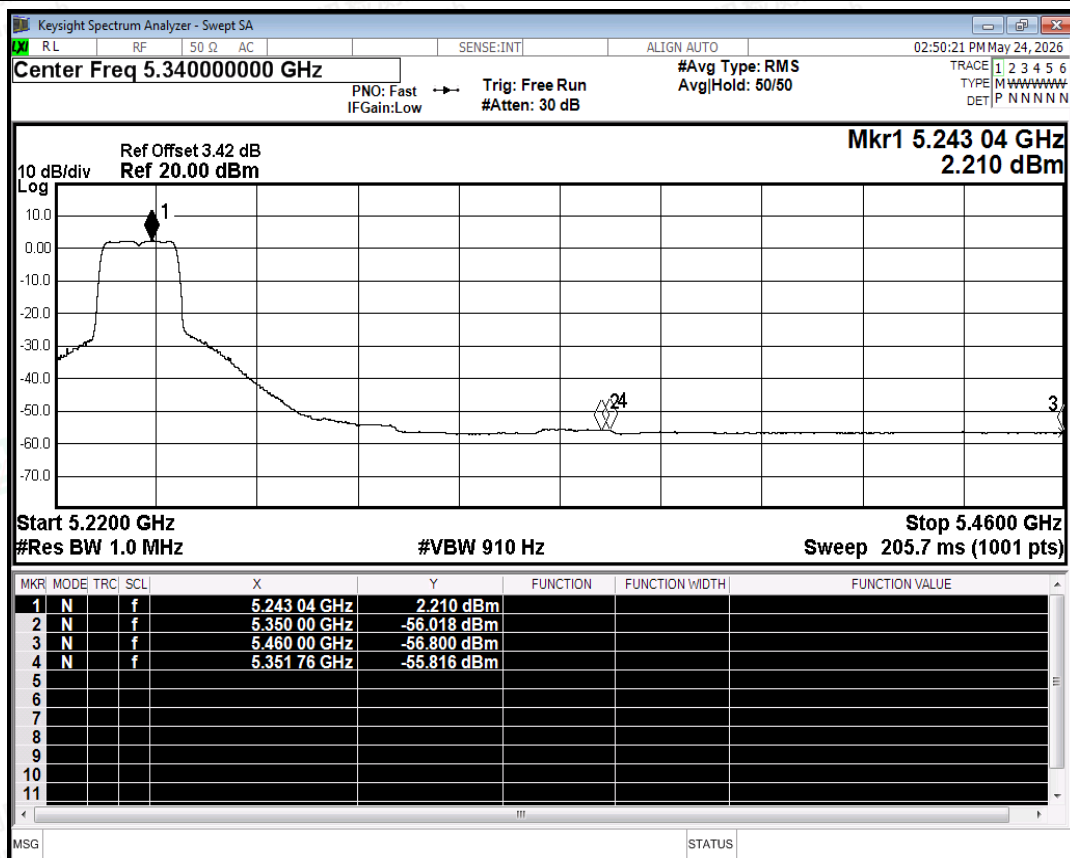
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Restrict Band NVNT n20 5240MHz Ant2 Peak



Restrict Band NVNT n20 5240MHz Ant2 Average

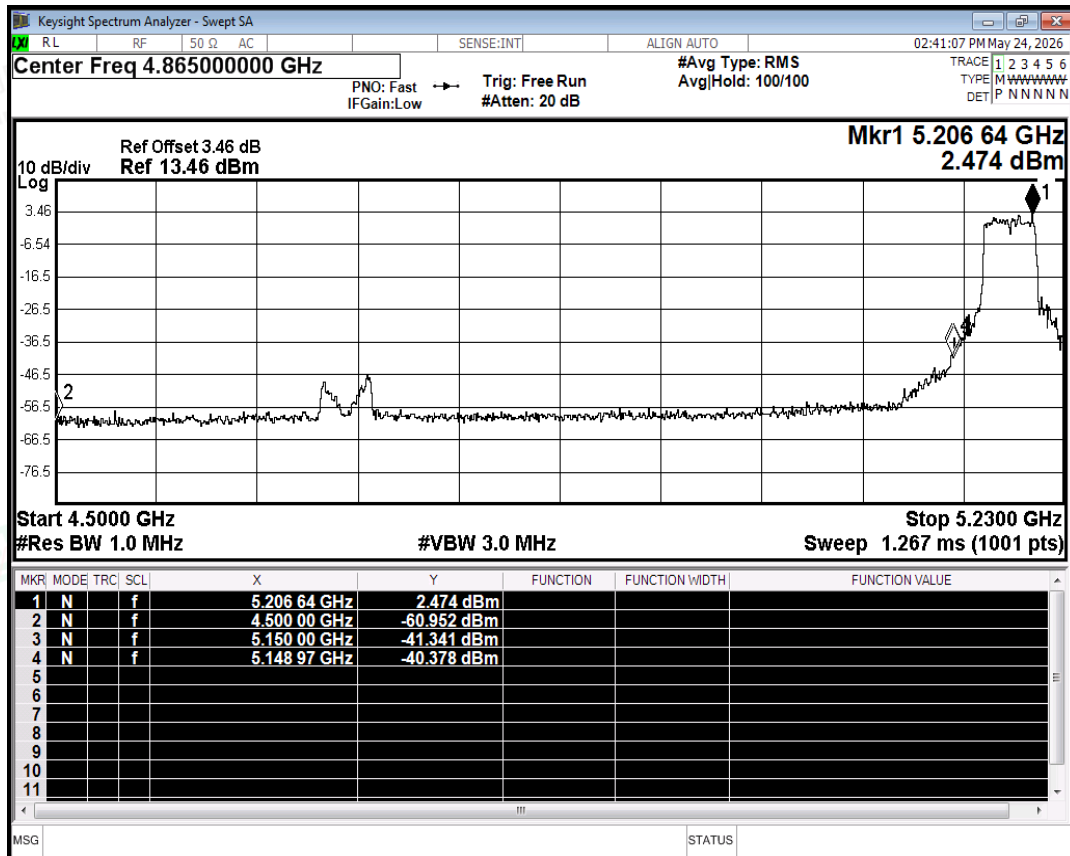


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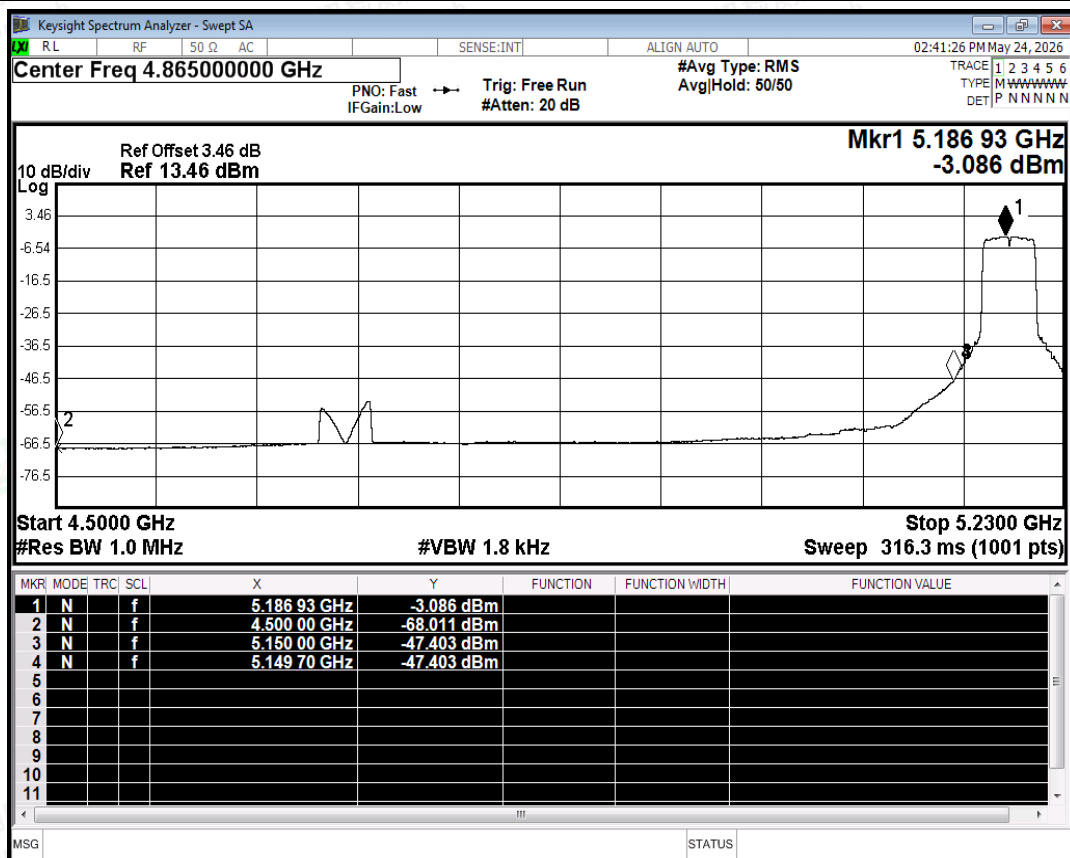
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Restrict Band NVNT n40 5190MHz Ant2 Peak



Restrict Band NVNT n40 5190MHz Ant2 Average

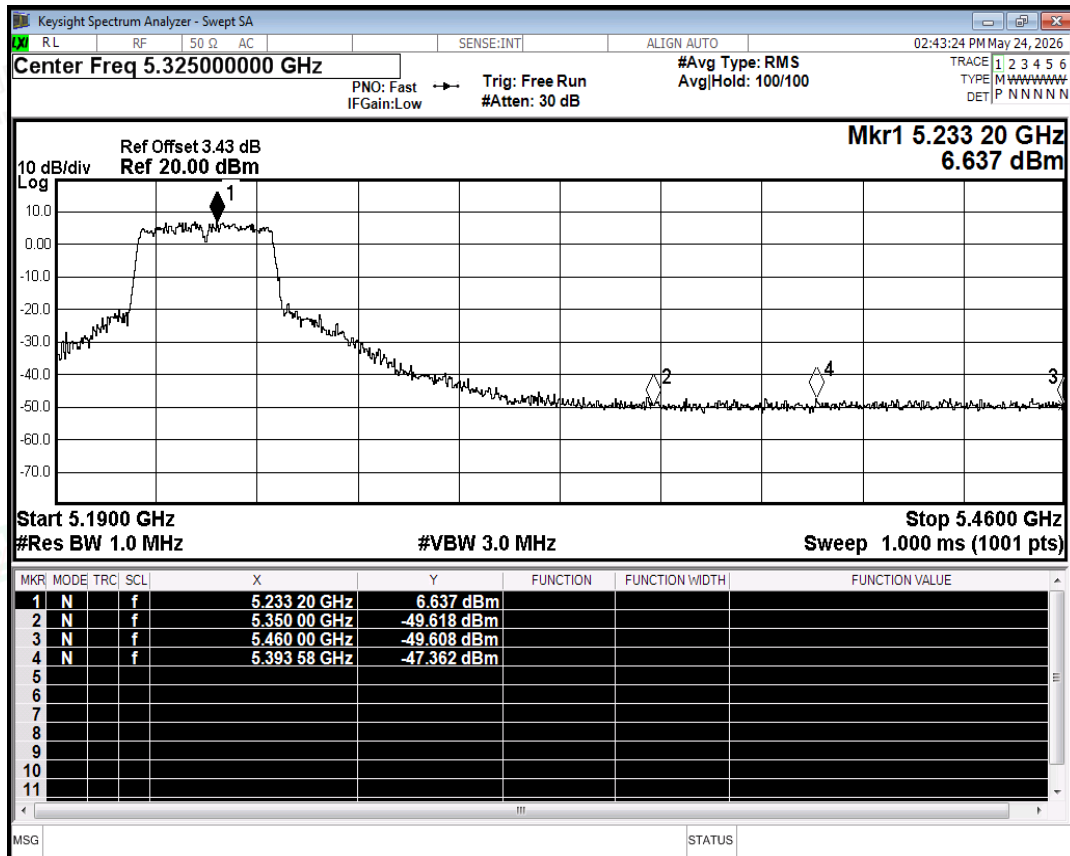


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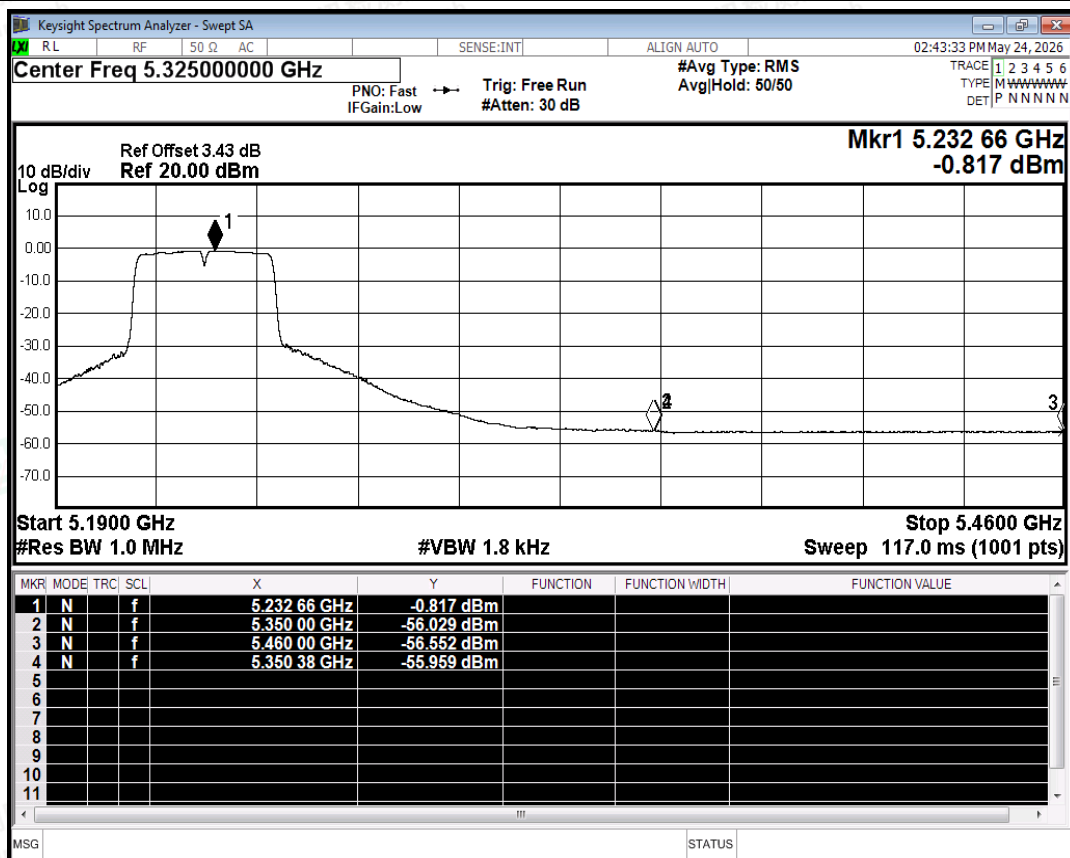
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Restrict Band NVNT n40 5230MHz Ant2 Peak



Restrict Band NVNT n40 5230MHz Ant2 Average

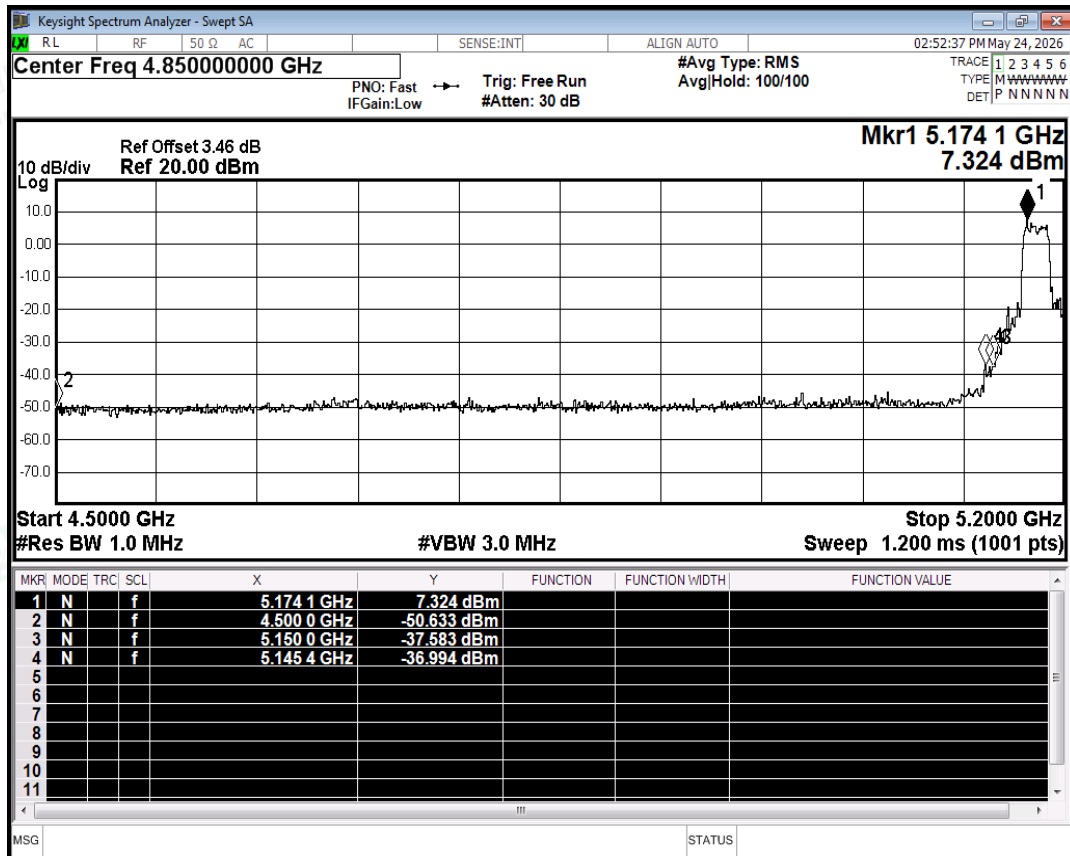


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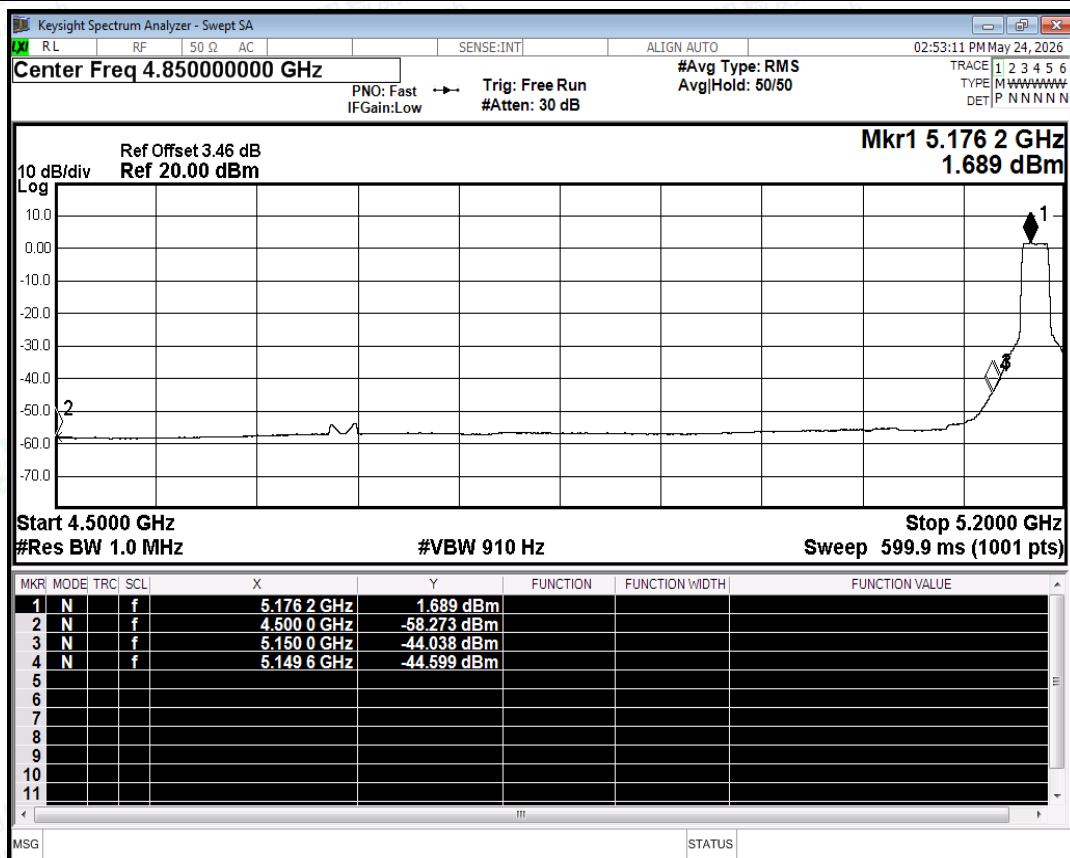
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Restrict Band NVNT ac20 5180MHz Ant2 Peak



Restrict Band NVNT ac20 5180MHz Ant2 Average

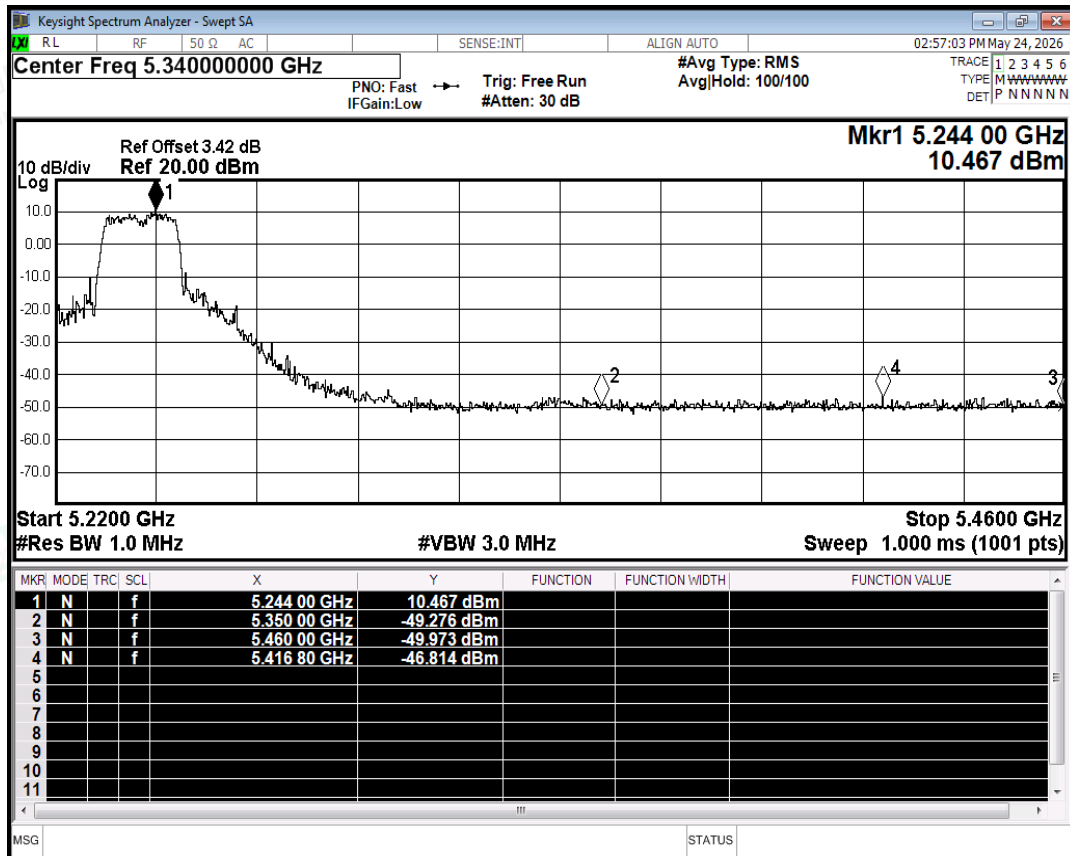


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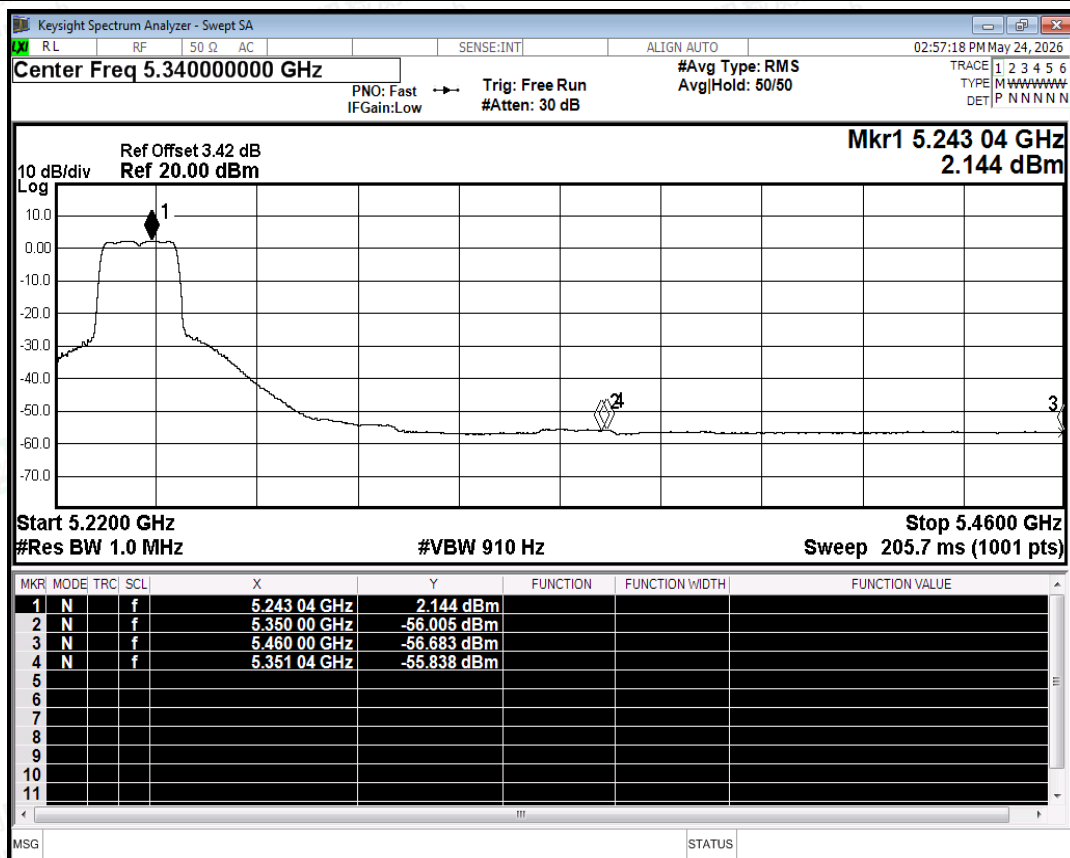
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Restrict Band NVNT ac20 5240MHz Ant2 Peak



Restrict Band NVNT ac20 5240MHz Ant2 Average

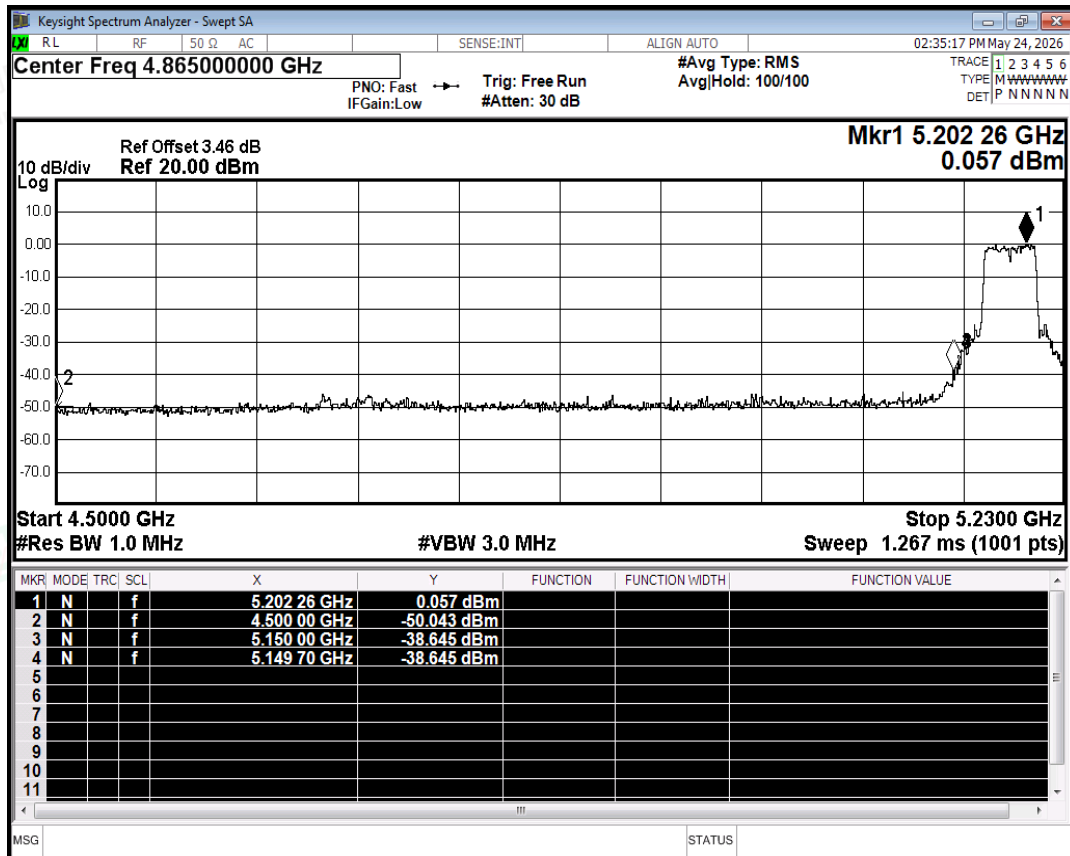


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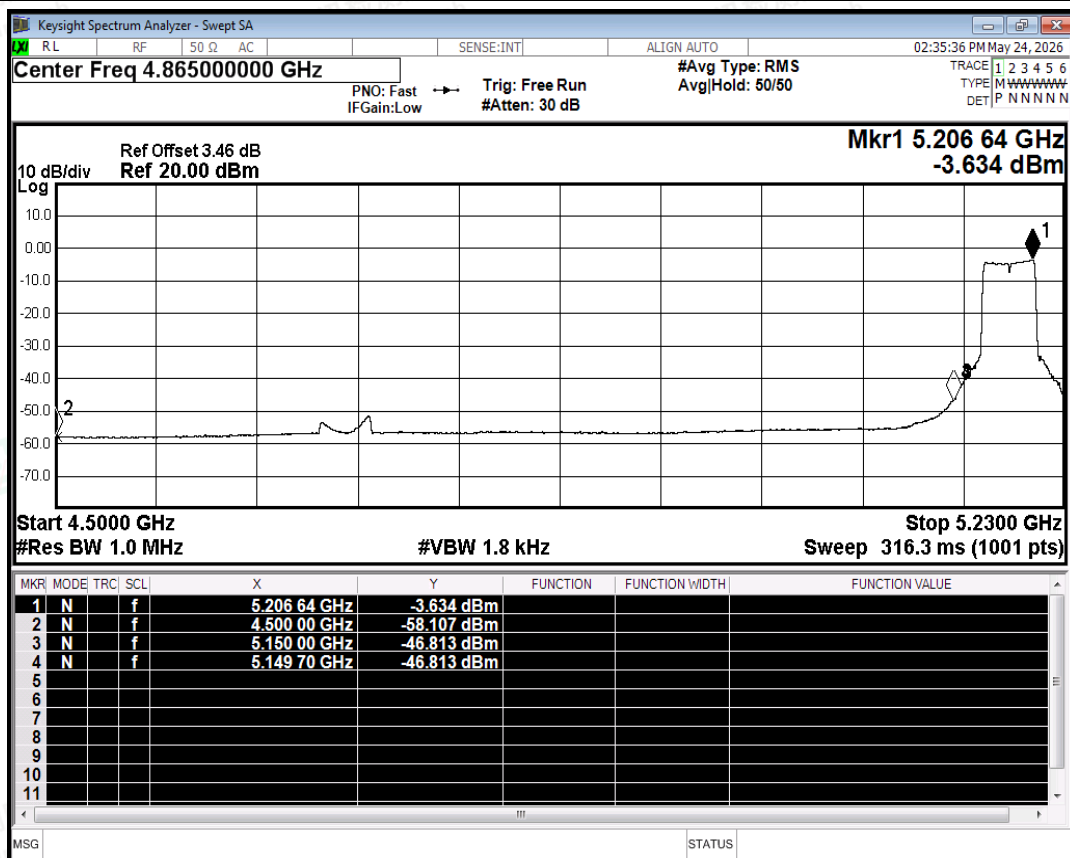
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Restrict Band NVNT ac40 5190MHz Ant2 Peak



Restrict Band NVNT ac40 5190MHz Ant2 Average

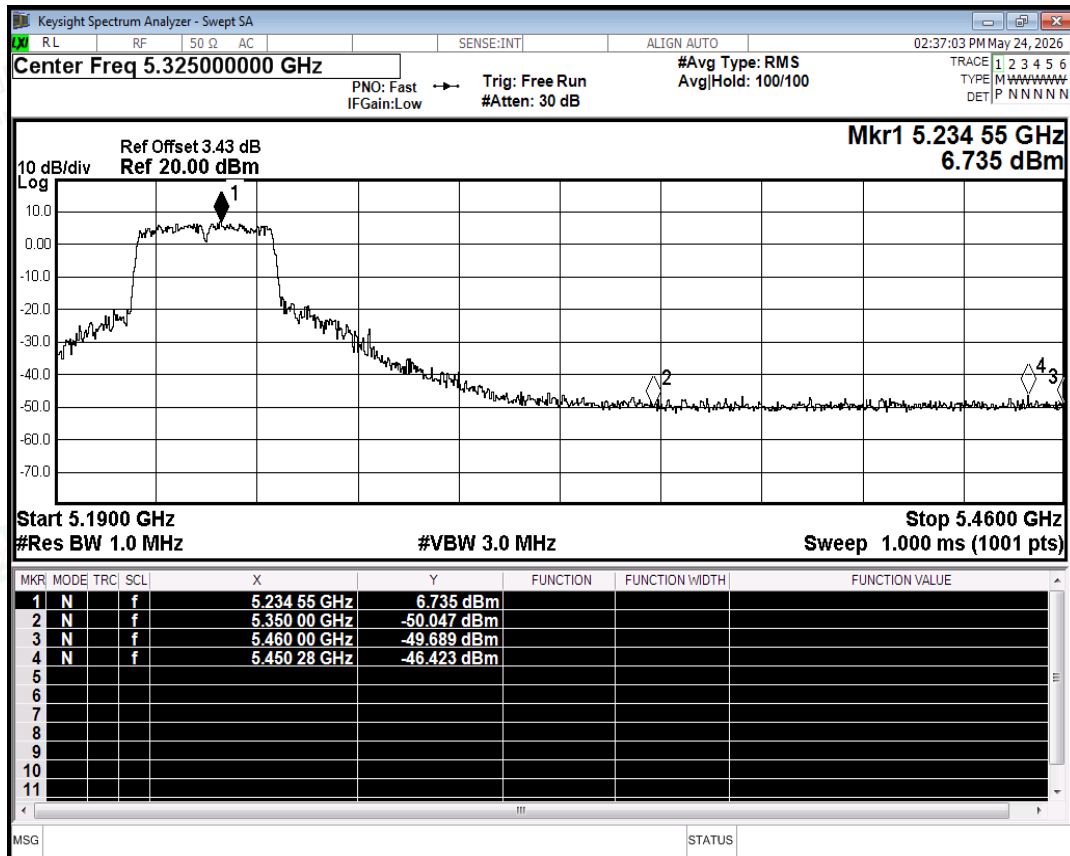


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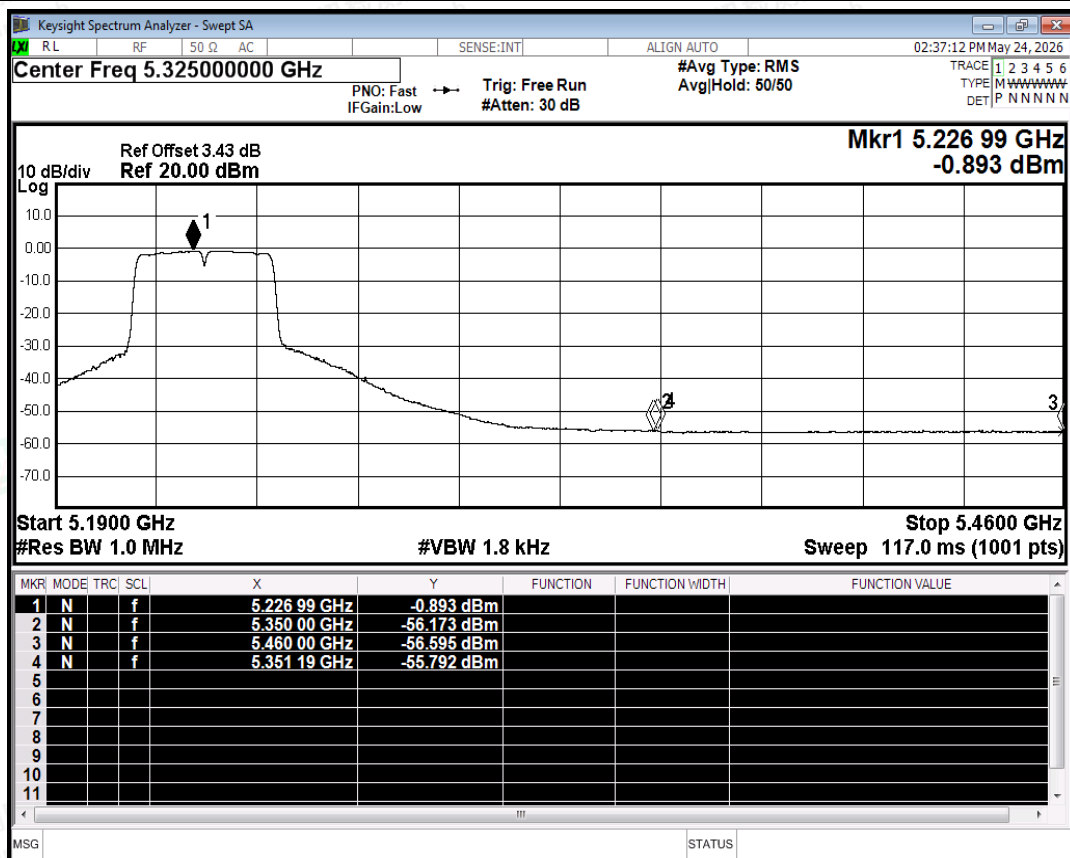
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Restrict Band NVNT ac40 5230MHz Ant2 Peak



Restrict Band NVNT ac40 5230MHz Ant2 Average

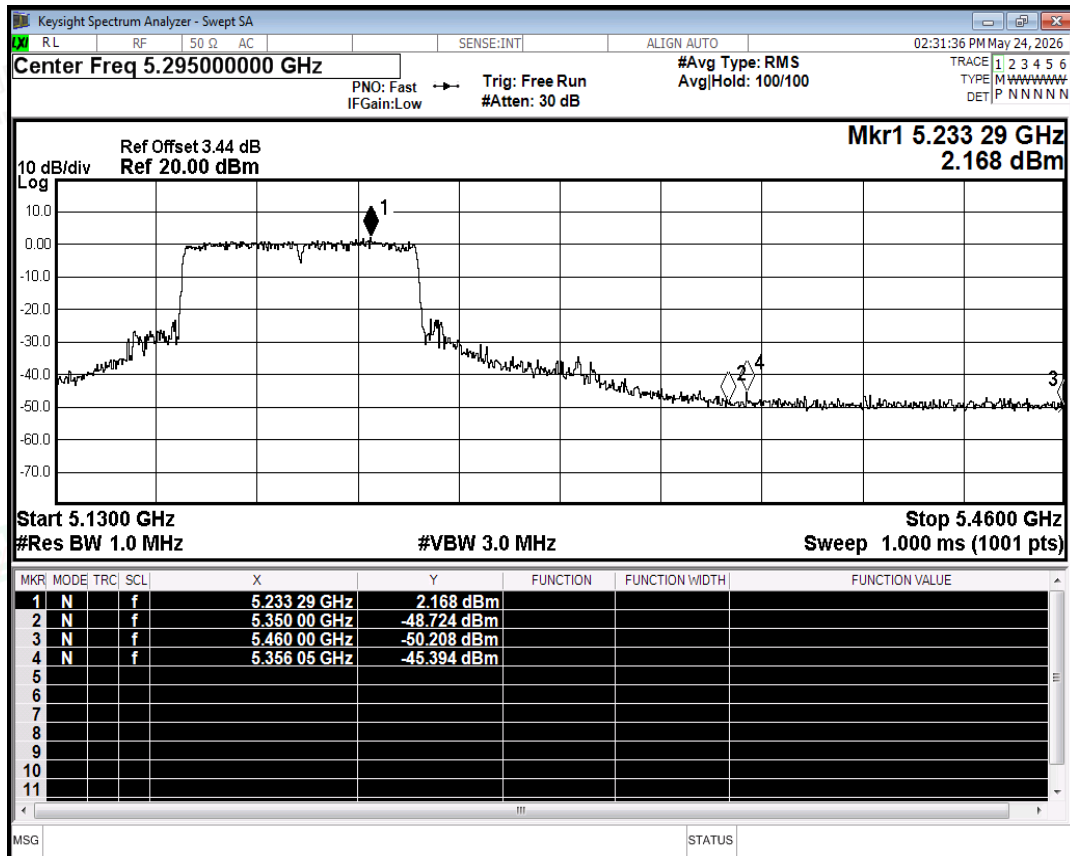


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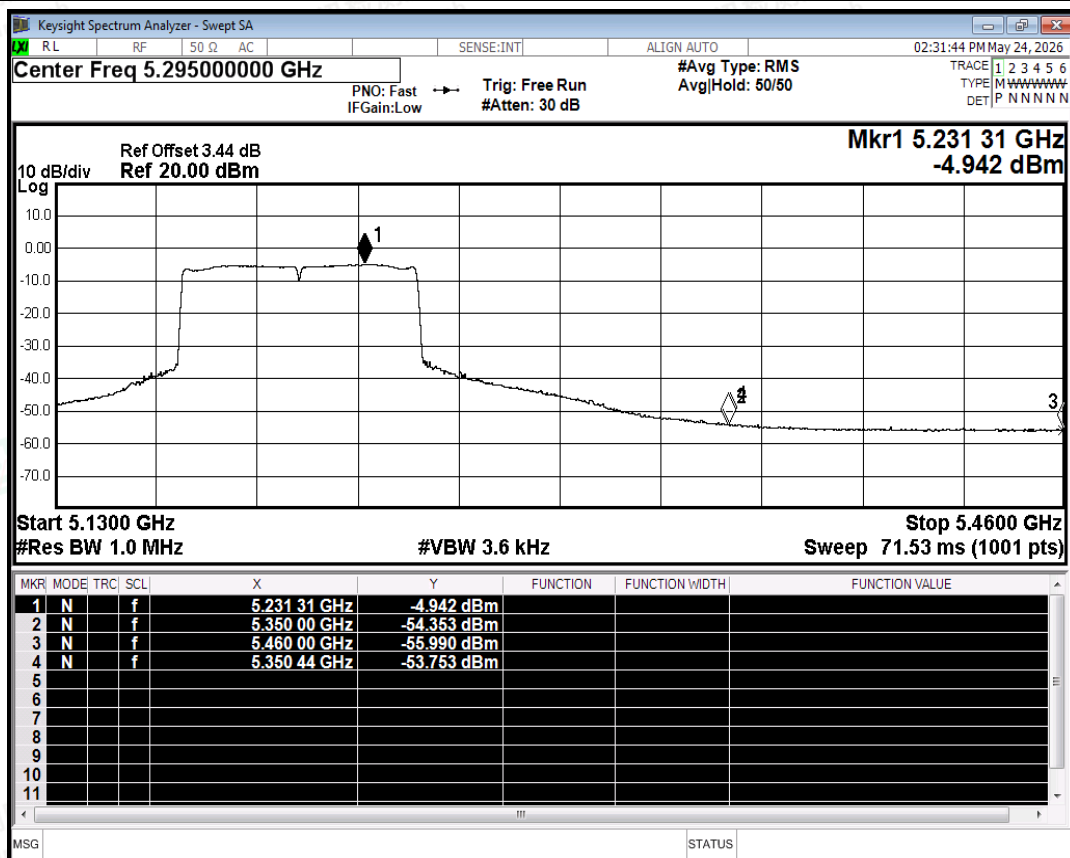
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Restrict Band NVNT ac80 5210MHz Ant2 Peak



Restrict Band NVNT ac80 5210MHz Ant2 Average

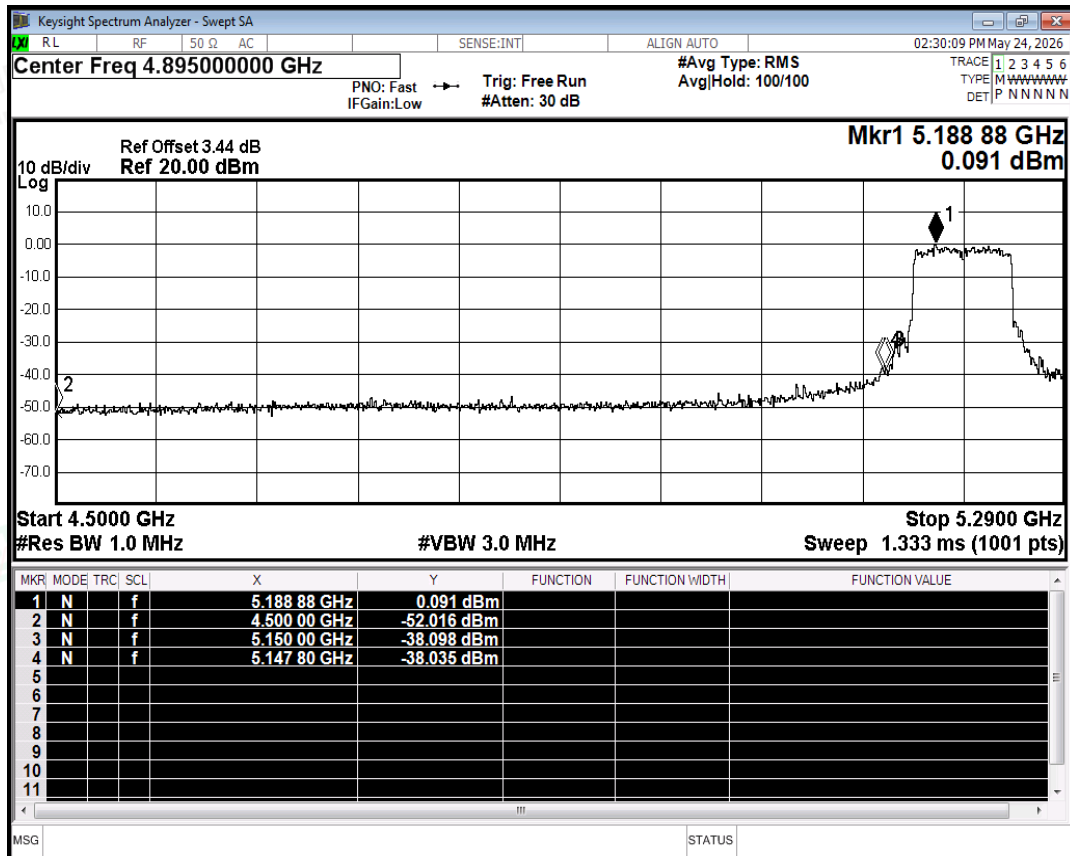


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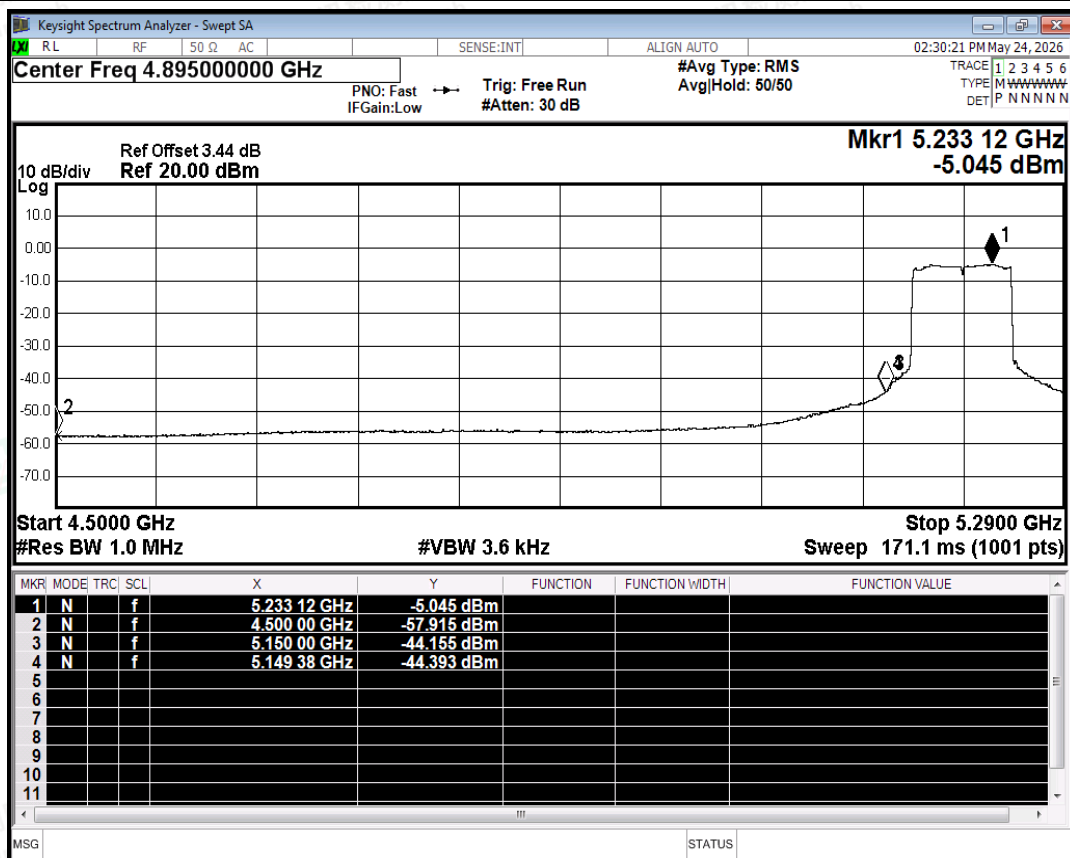
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Restrict Band NVNT ac80 5210MHz Ant2 Peak



Restrict Band NVNT ac80 5210MHz Ant2 Average



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MIMO

Condition	Mode	Frequency (MHz)	Ant1 Power (dBm)	Ant2 Power (dBm)	SUM	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	-50.84	-52.08	-48.41	4.01	50.83	Peak	68.2	Pass
NVNT	n20	5180	-58.55	-58.56	-55.54	4.01	43.69	Average	54	Pass
NVNT	n20	5180	-38.18	-40.29	-36.10	4.01	63.14	Peak	68.2	Pass
NVNT	n20	5180	-54.71	-54.36	-51.52	4.01	47.72	Average	54	Pass
NVNT	n20	5180	-41.12	-39.72	-37.35	4.01	61.88	Peak	68.2	Pass
NVNT	n20	5180	-54.38	-54.06	-51.21	4.01	48.03	Average	54	Pass
NVNT	n20	5240	-49.43	-49.70	-46.55	4.01	52.68	Peak	68.2	Pass
NVNT	n20	5240	-56.32	-56.12	-53.21	4.01	46.03	Average	54	Pass
NVNT	n20	5240	-47.11	-47.28	-44.18	4.01	55.05	Peak	68.2	Pass
NVNT	n20	5240	-55.91	-55.84	-52.86	4.01	46.37	Average	54	Pass
NVNT	n20	5240	-50.38	-49.39	-46.85	4.01	52.39	Peak	68.2	Pass
NVNT	n20	5240	-56.89	-56.93	-53.90	4.01	45.34	Average	54	Pass
NVNT	n40	5190	-61.38	-61.16	-58.26	4.01	40.98	Peak	68.2	Pass
NVNT	n40	5190	-68.00	-68.09	-65.03	4.01	34.20	Average	54	Pass
NVNT	n40	5190	-41.65	-40.51	-38.03	4.01	61.21	Peak	68.2	Pass
NVNT	n40	5190	-47.25	-57.53	-46.86	4.01	52.38	Average	54	Pass
NVNT	n40	5190	-38.94	-35.51	-33.88	4.01	65.35	Peak	68.2	Pass
NVNT	n40	5190	-56.41	-57.09	-53.73	4.01	45.51	Average	54	Pass
NVNT	n40	5230	-49.59	-49.72	-46.64	4.01	52.59	Peak	68.2	Pass
NVNT	n40	5230	-56.83	-56.17	-53.48	4.01	45.76	Average	54	Pass
NVNT	n40	5230	-46.72	-47.44	-44.05	4.01	55.18	Peak	68.2	Pass
NVNT	n40	5230	-56.63	-56.15	-53.37	4.01	45.86	Average	54	Pass
NVNT	n40	5230	-49.31	-49.72	-46.50	4.01	52.74	Peak	68.2	Pass
NVNT	n40	5230	-56.98	-56.58	-53.77	4.01	45.47	Average	54	Pass
NVNT	ac20	5180	-51.22	-50.73	-47.96	4.01	51.28	Peak	68.2	Pass
NVNT	ac20	5180	-58.54	-58.43	-55.47	4.01	43.76	Average	54	Pass
NVNT	ac20	5180	-37.29	-37.09	-34.18	4.01	65.06	Peak	68.2	Pass
NVNT	ac20	5180	-54.31	-54.65	-51.47	4.01	47.77	Average	54	Pass
NVNT	ac20	5180	-38.77	-37.78	-35.24	4.01	64.00	Peak	68.2	Pass
NVNT	ac20	5180	-54.34	-54.19	-51.25	4.01	47.98	Average	54	Pass
NVNT	ac20	5240	-49.88	-49.50	-46.68	4.01	52.56	Peak	68.2	Pass
NVNT	ac20	5240	-56.20	-56.21	-53.19	4.01	46.04	Average	54	Pass
NVNT	ac20	5240	-47.27	-46.84	-44.04	4.01	55.20	Peak	68.2	Pass
NVNT	ac20	5240	-56.14	-55.86	-52.99	4.01	46.25	Average	54	Pass
NVNT	ac20	5240	-49.95	-50.18	-47.05	4.01	52.18	Peak	68.2	Pass
NVNT	ac20	5240	-56.75	-56.86	-53.79	4.01	45.44	Average	54	Pass
NVNT	ac40	5190	-51.08	-50.17	-47.59	4.01	51.65	Peak	68.2	Pass
NVNT	ac40	5190	-58.18	-58.33	-55.24	4.01	43.99	Average	54	Pass
NVNT	ac40	5190	-42.42	-38.77	-37.21	4.01	62.03	Peak	68.2	Pass
NVNT	ac40	5190	-57.21	-56.99	-54.09	4.01	45.15	Average	54	Pass



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NVNT	ac40	5190	-39.98	-41.72	-37.75	4.01	61.48	Peak	68.2	Pass
NVNT	ac40	5190	-56.91	-56.61	-53.75	4.01	45.49	Average	54	Pass
NVNT	ac40	5230	-49.60	-50.18	-46.87	4.01	52.37	Peak	68.2	Pass
NVNT	ac40	5230	-56.29	-56.25	-53.26	4.01	45.98	Average	54	Pass
NVNT	ac40	5230	-46.86	-46.48	-43.66	4.01	55.58	Peak	68.2	Pass
NVNT	ac40	5230	-56.01	-56.00	-52.99	4.01	46.24	Average	54	Pass
NVNT	ac40	5230	-49.64	-49.75	-46.68	4.01	52.55	Peak	68.2	Pass
NVNT	ac40	5230	-56.72	-56.65	-53.67	4.01	45.56	Average	54	Pass
NVNT	ac80	5210	-49.09	-48.87	-45.97	4.01	53.27	Peak	68.2	Pass
NVNT	ac80	5210	-54.62	-54.45	-51.52	4.01	47.71	Average	54	Pass
NVNT	ac80	5210	-46.58	-45.56	-43.03	4.01	56.21	Peak	68.2	Pass
NVNT	ac80	5210	-54.41	-53.82	-51.09	4.01	48.14	Average	54	Pass
NVNT	ac80	5210	-49.58	-50.42	-46.97	4.01	52.27	Peak	68.2	Pass
NVNT	ac80	5210	-56.20	-56.02	-53.10	4.01	46.14	Average	54	Pass
NVNT	ac80	5210	-52.50	-52.13	-49.30	4.01	49.94	Peak	68.2	Pass
NVNT	ac80	5210	-57.85	-58.06	-54.94	4.01	44.29	Average	54	Pass
NVNT	ac80	5210	-36.14	-38.25	-34.06	4.01	65.18	Peak	68.2	Pass
NVNT	ac80	5210	-54.03	-54.57	-51.28	4.01	47.96	Average	54	Pass
NVNT	ac80	5210	-37.18	-38.23	-34.66	4.01	64.57	Peak	68.2	Pass
NVNT	ac80	5210	-54.25	-54.31	-51.27	4.01	47.97	Average	54	Pass



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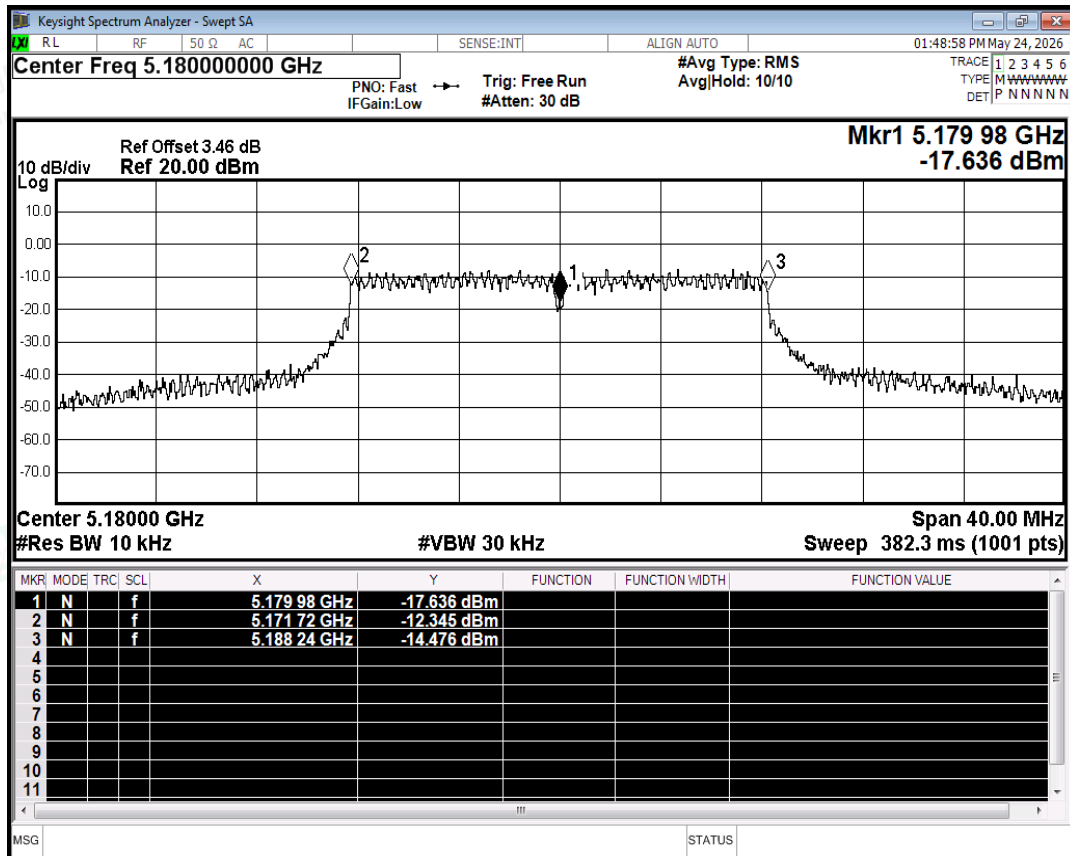
Scan code to check authenticity



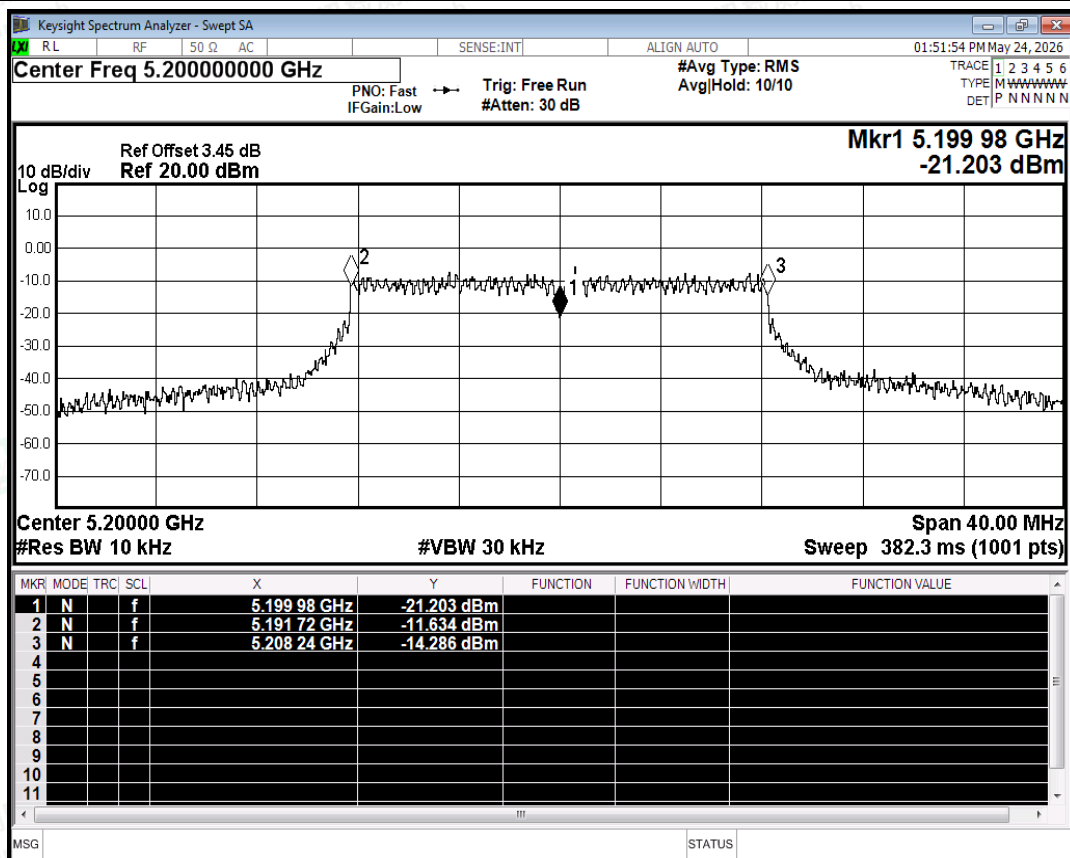
D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass





Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1

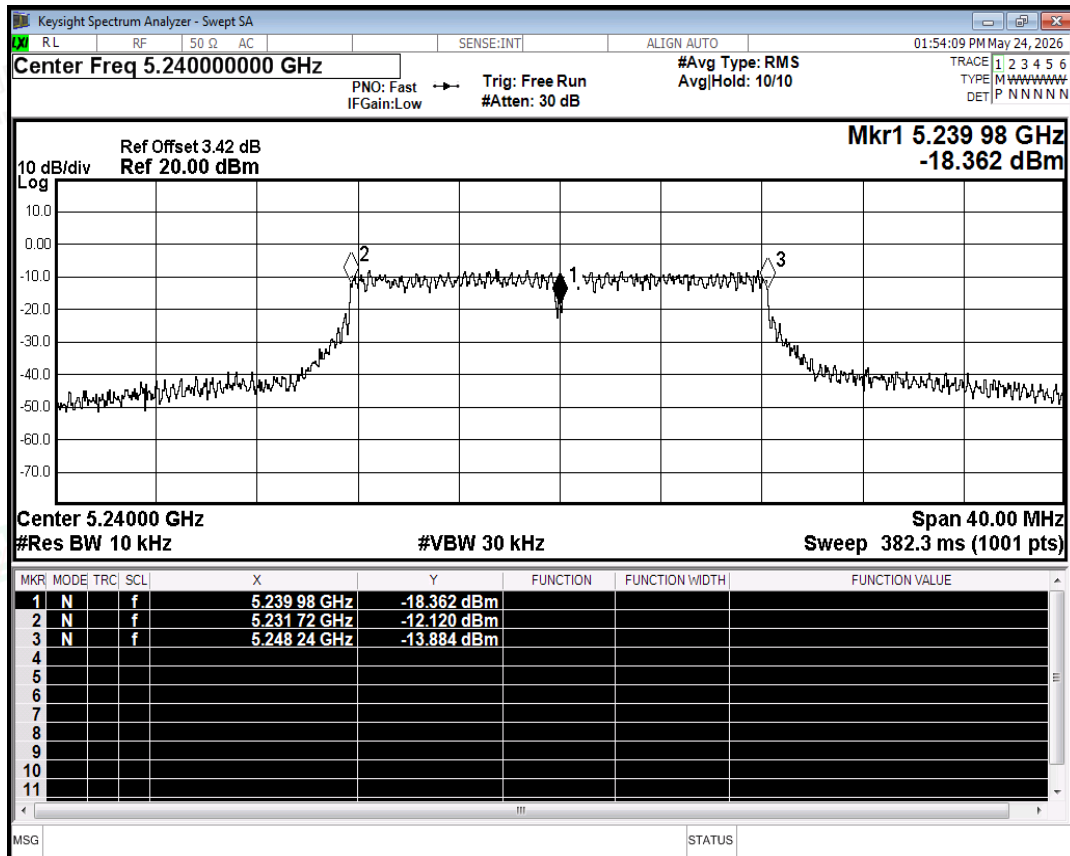


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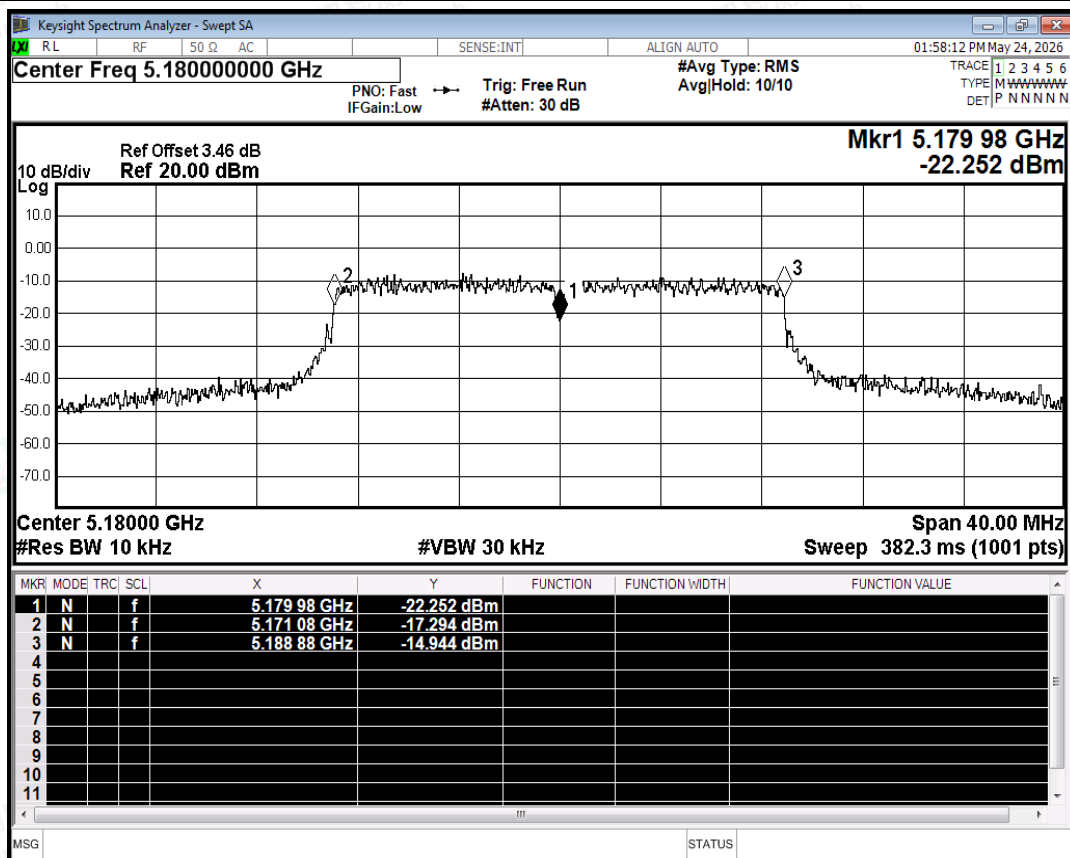
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Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1

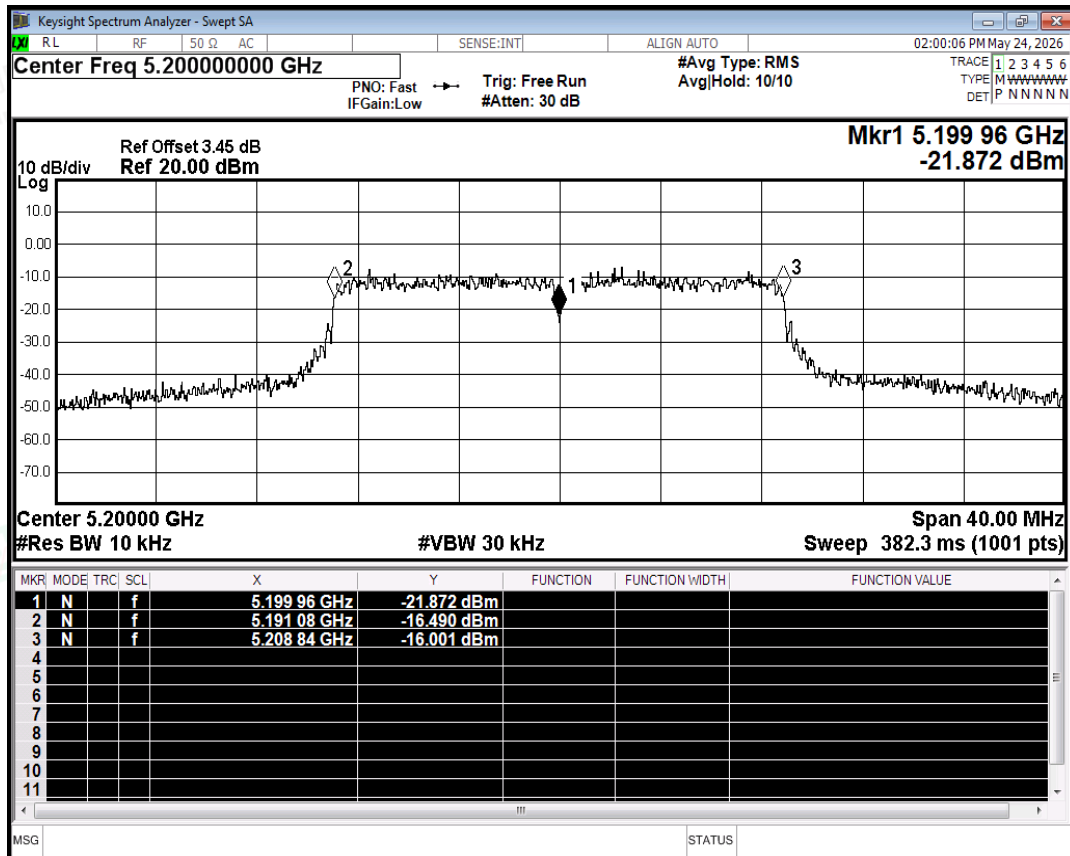


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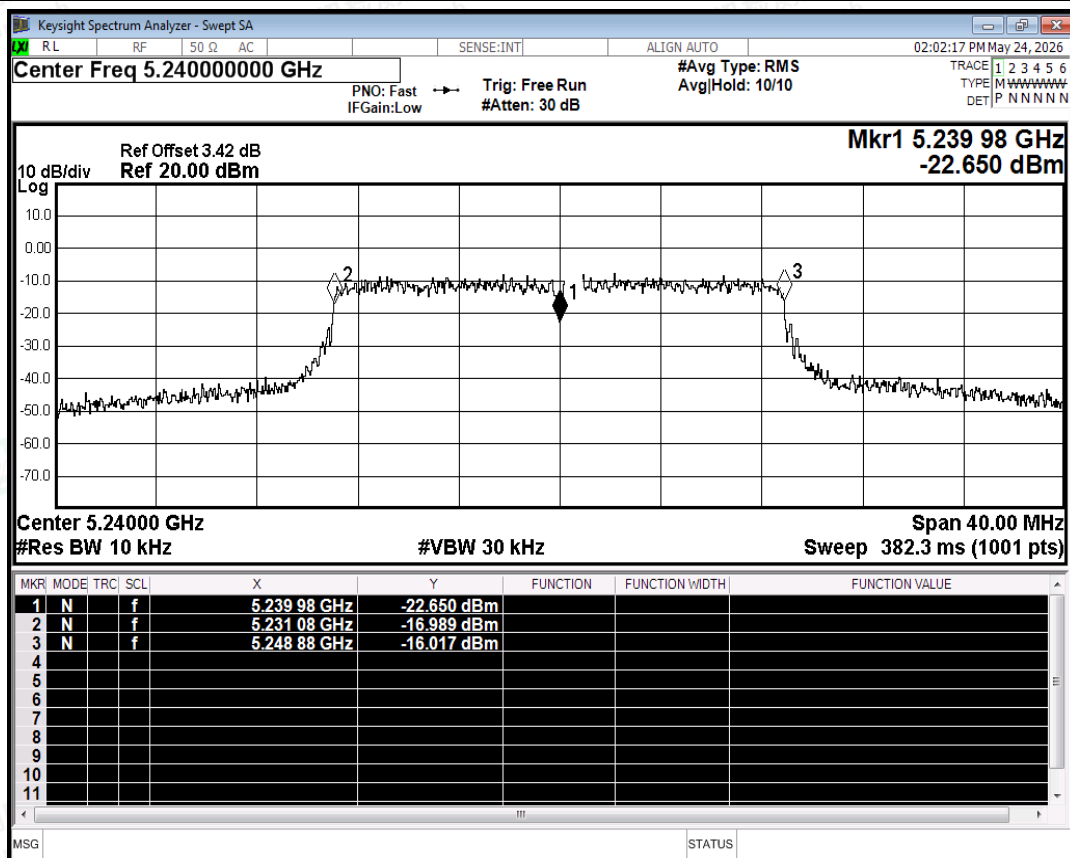
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Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1

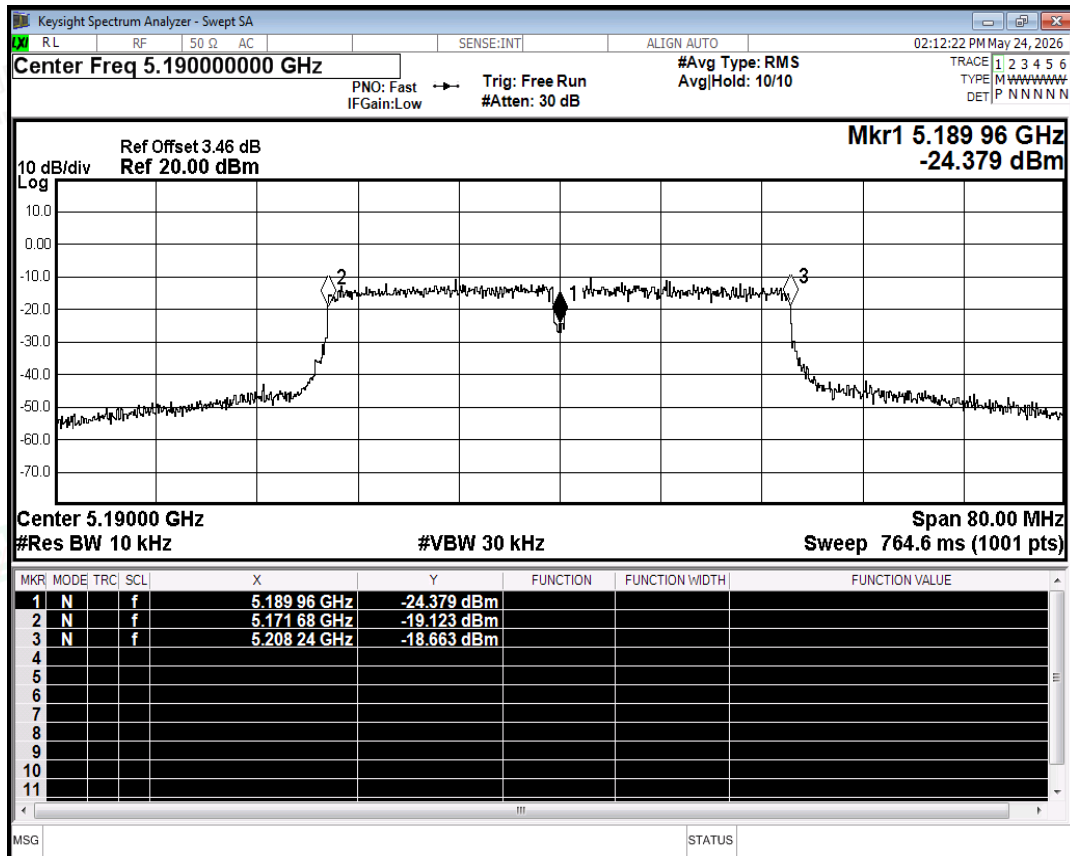


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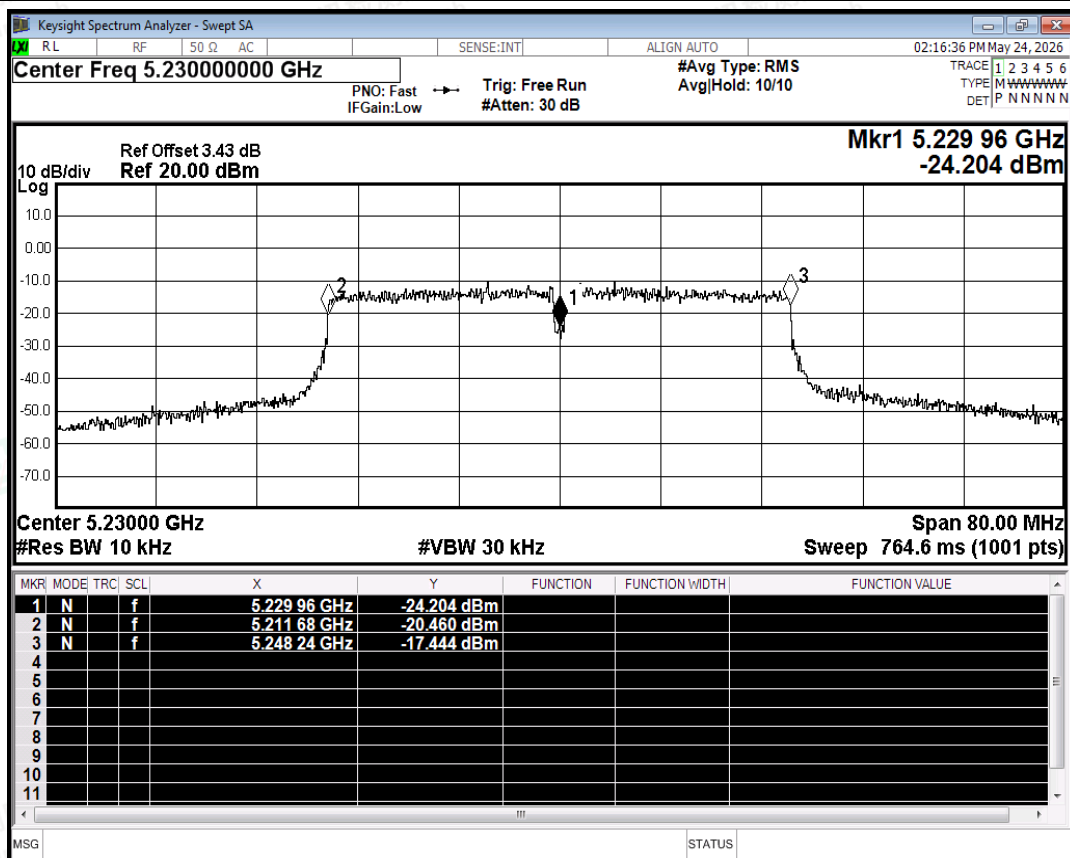
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Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1

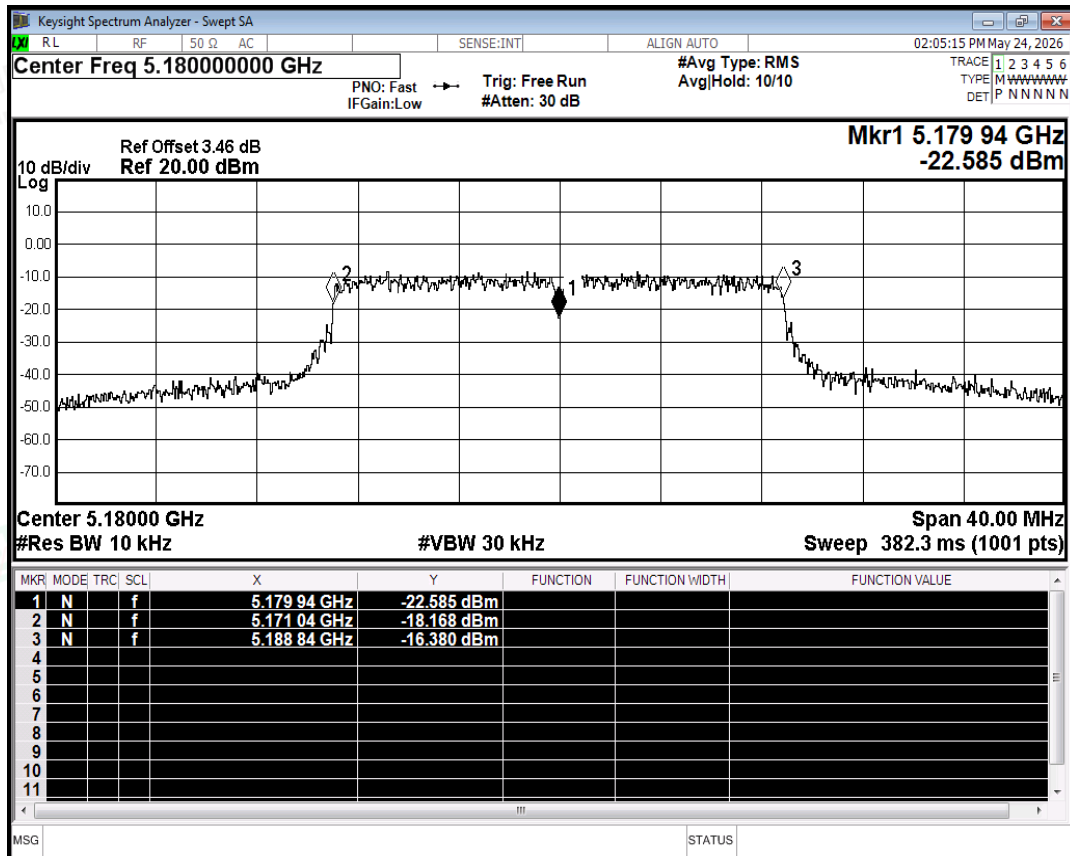


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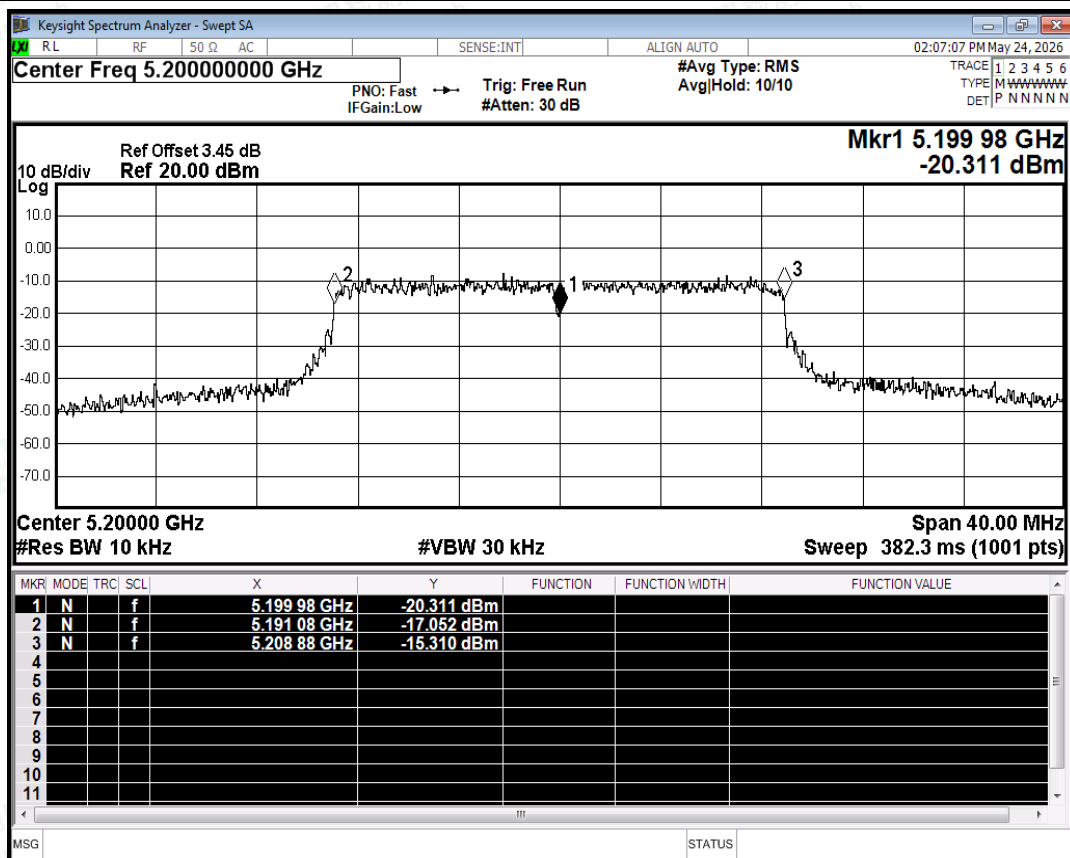
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Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 5200MHz Ant1

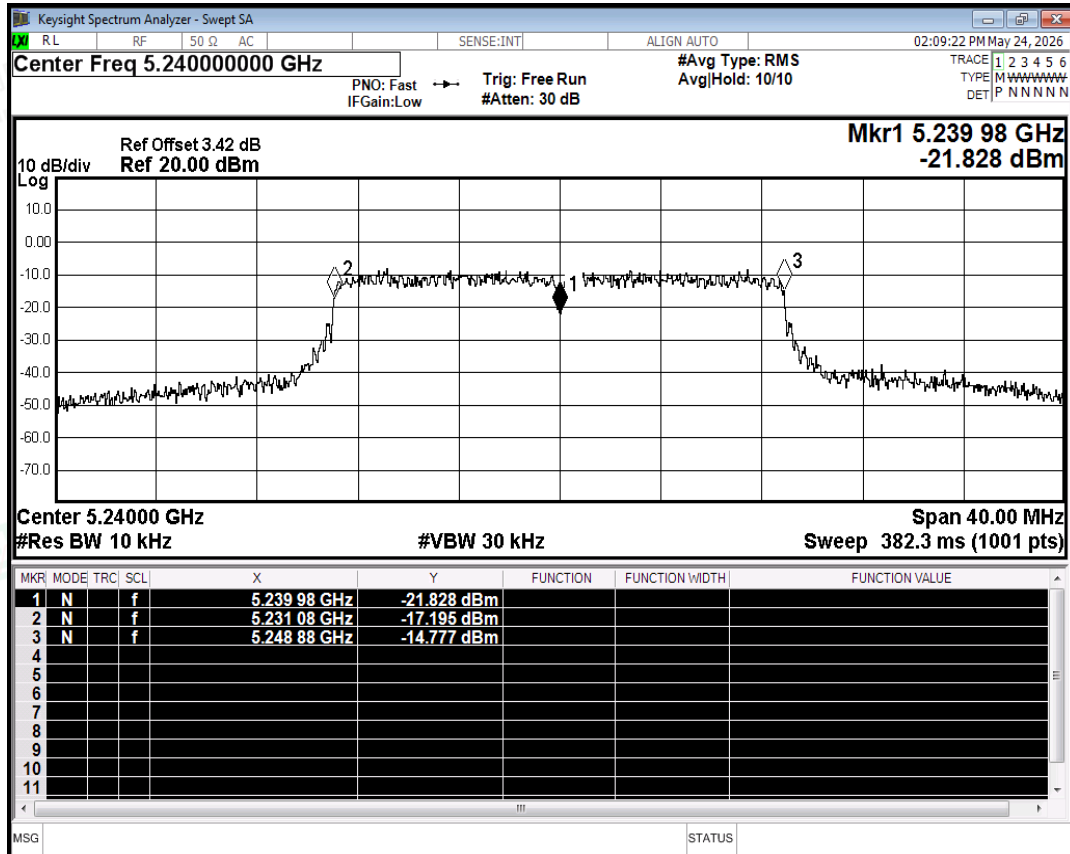


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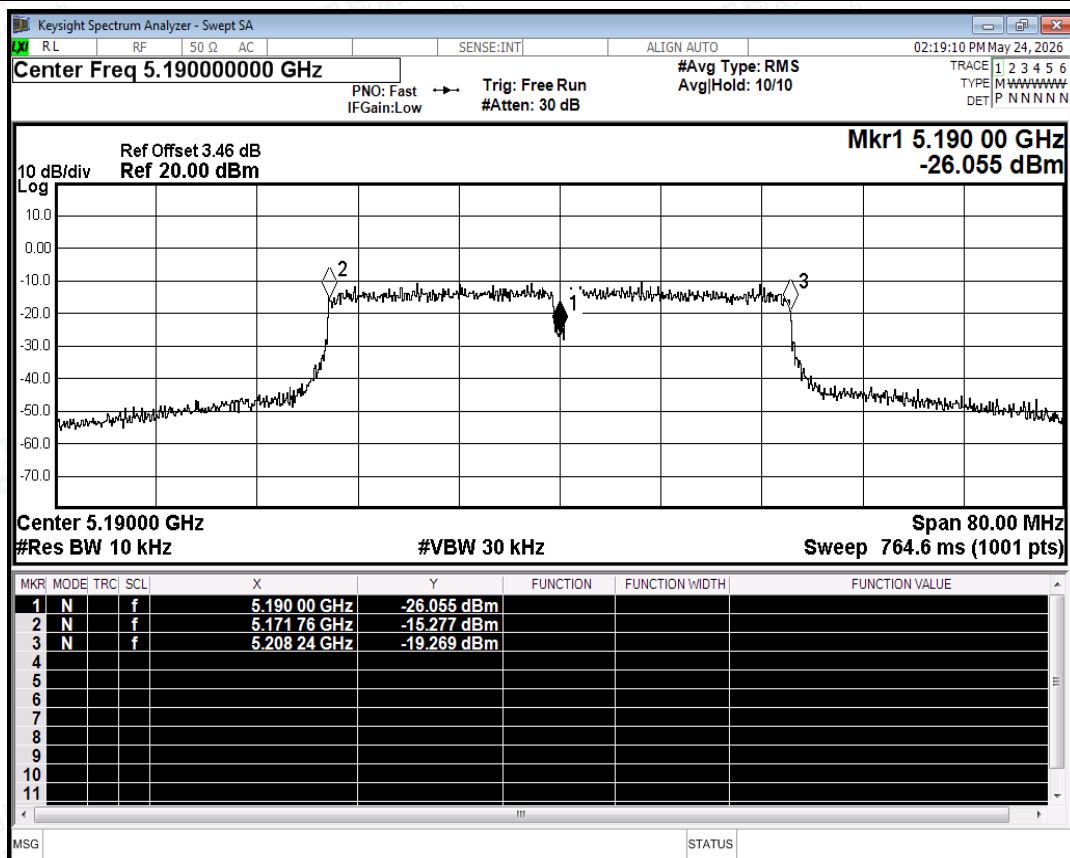
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Freq. Stability NVNT ac20 5240MHz Ant1



Freq. Stability NVNT ac40 5190MHz Ant1

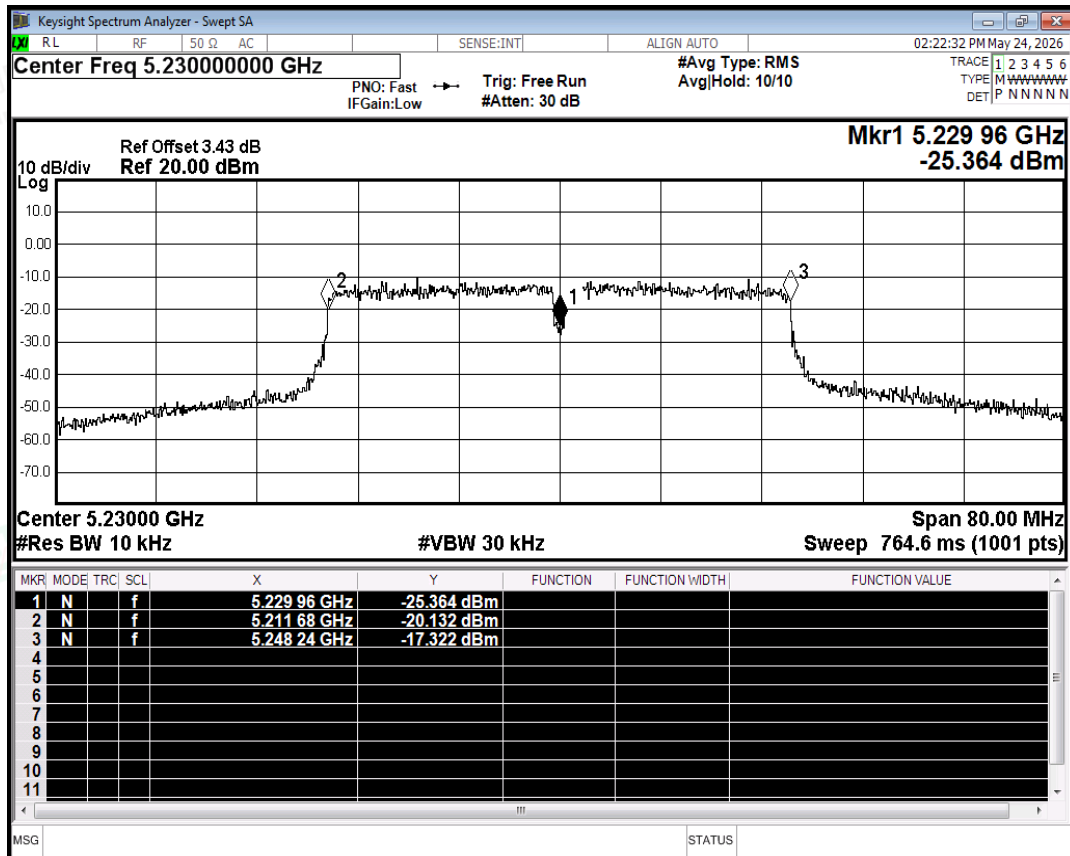


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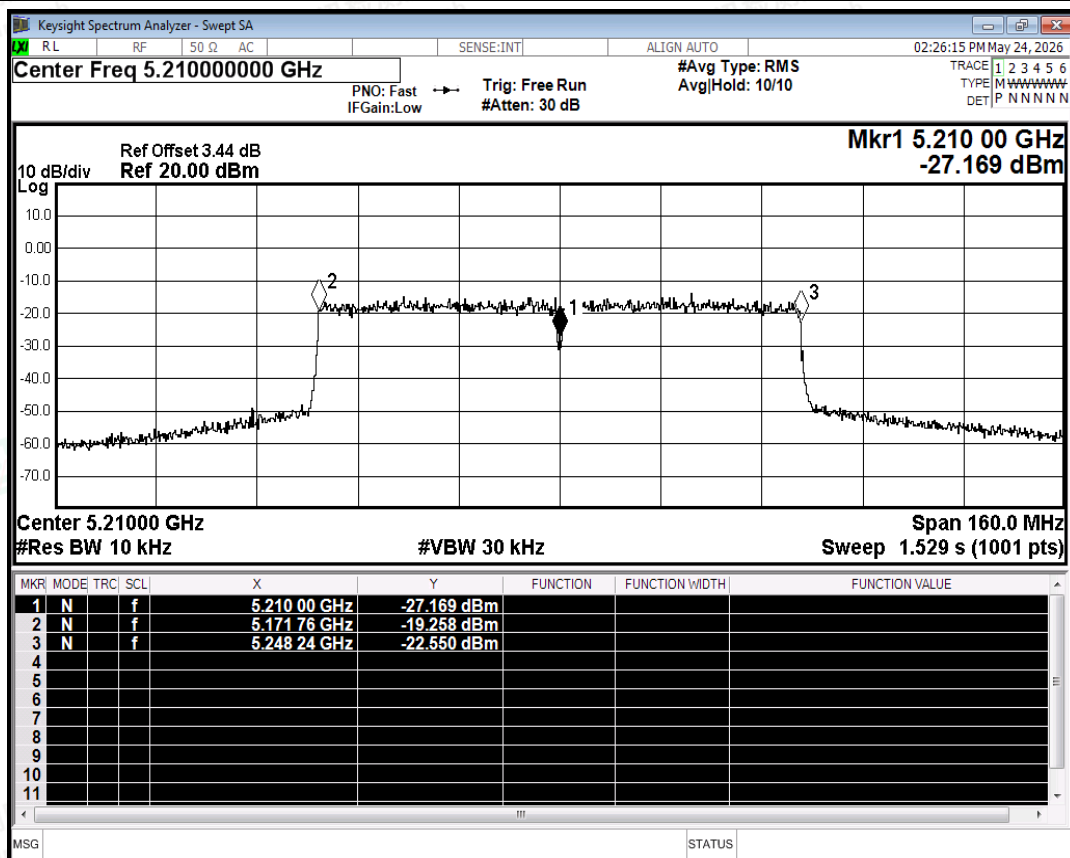
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Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1



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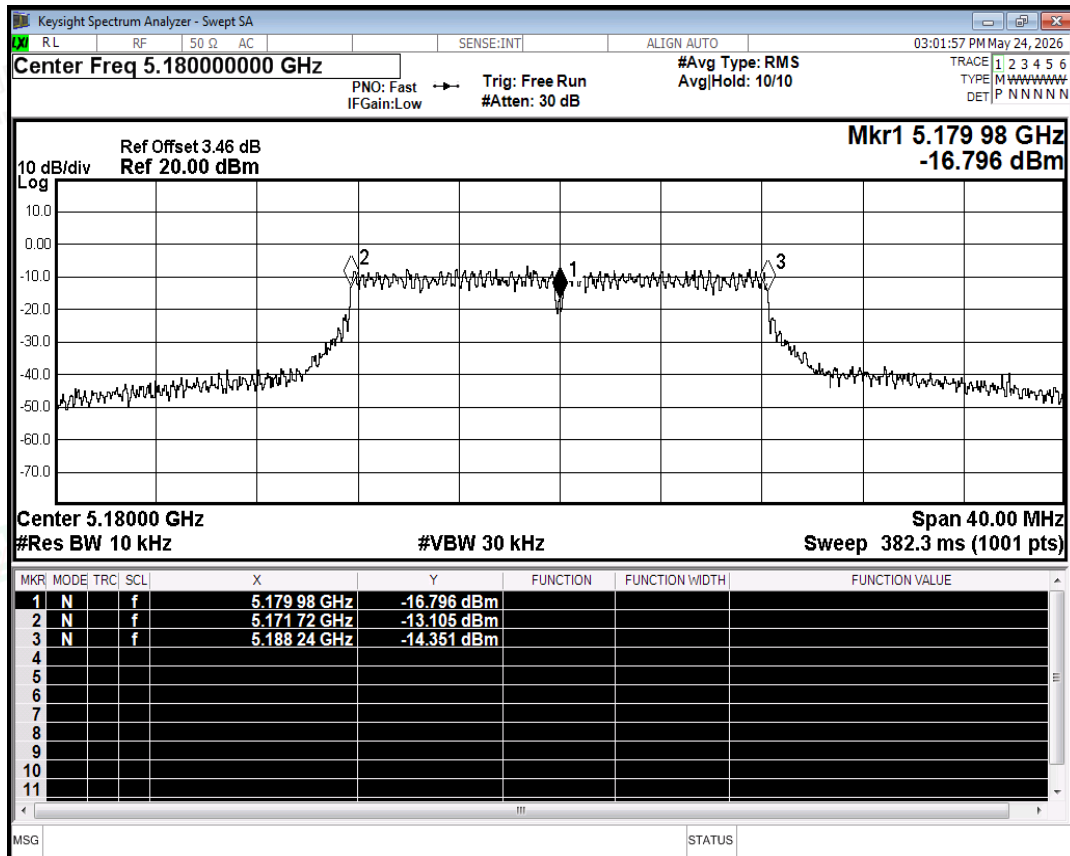
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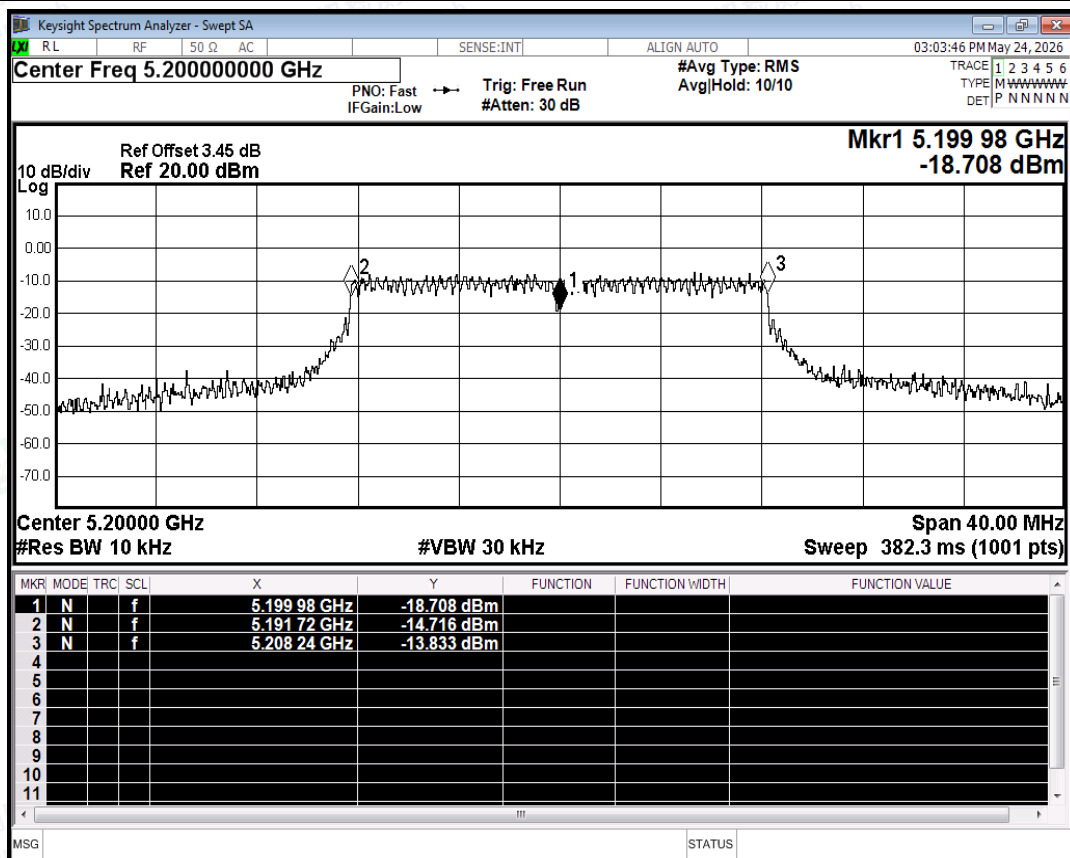


Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant2	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant2	5190	0	0	25	Pass
NVNT	n40	5230	Ant2	5230	0	0	25	Pass
NVNT	ac20	5180	Ant2	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant2	5240	0	0	25	Pass
NVNT	ac40	5190	Ant2	5190	0	0	25	Pass
NVNT	ac40	5230	Ant2	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant2	5210	0	0	25	Pass





Freq. Stability NVNT a 5180MHz Ant2



Freq. Stability NVNT a 5200MHz Ant2

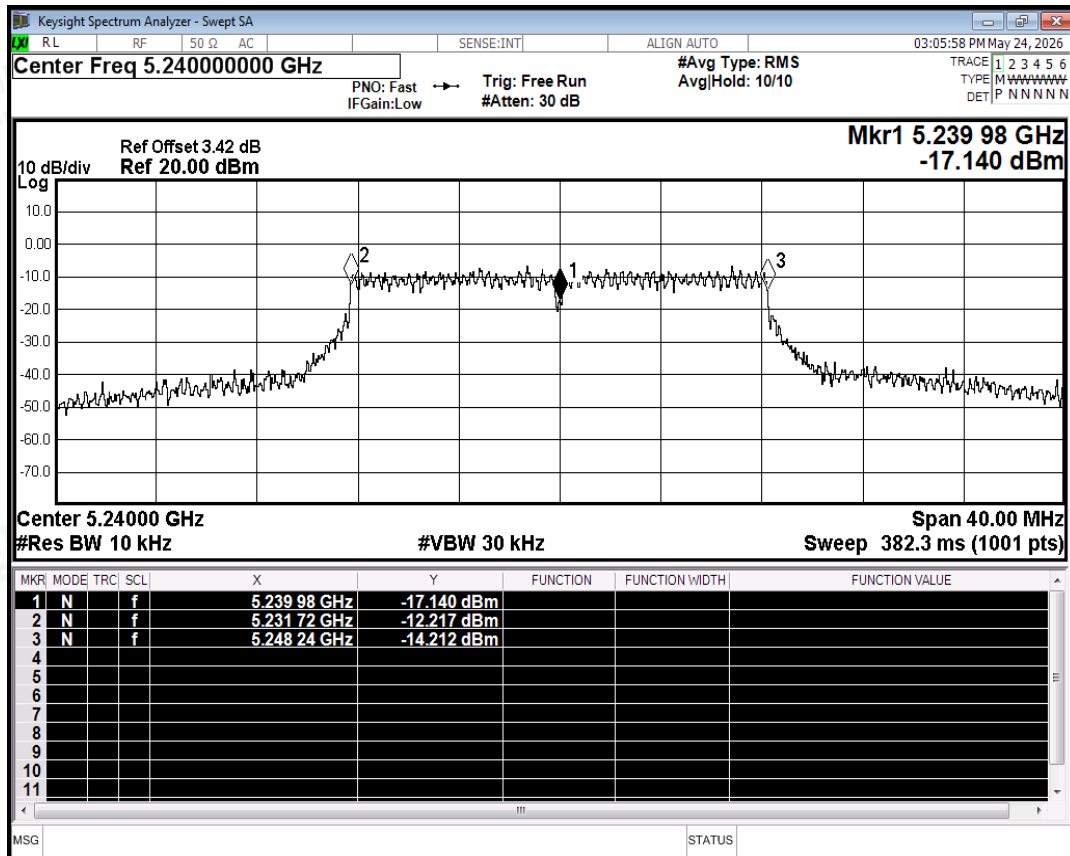


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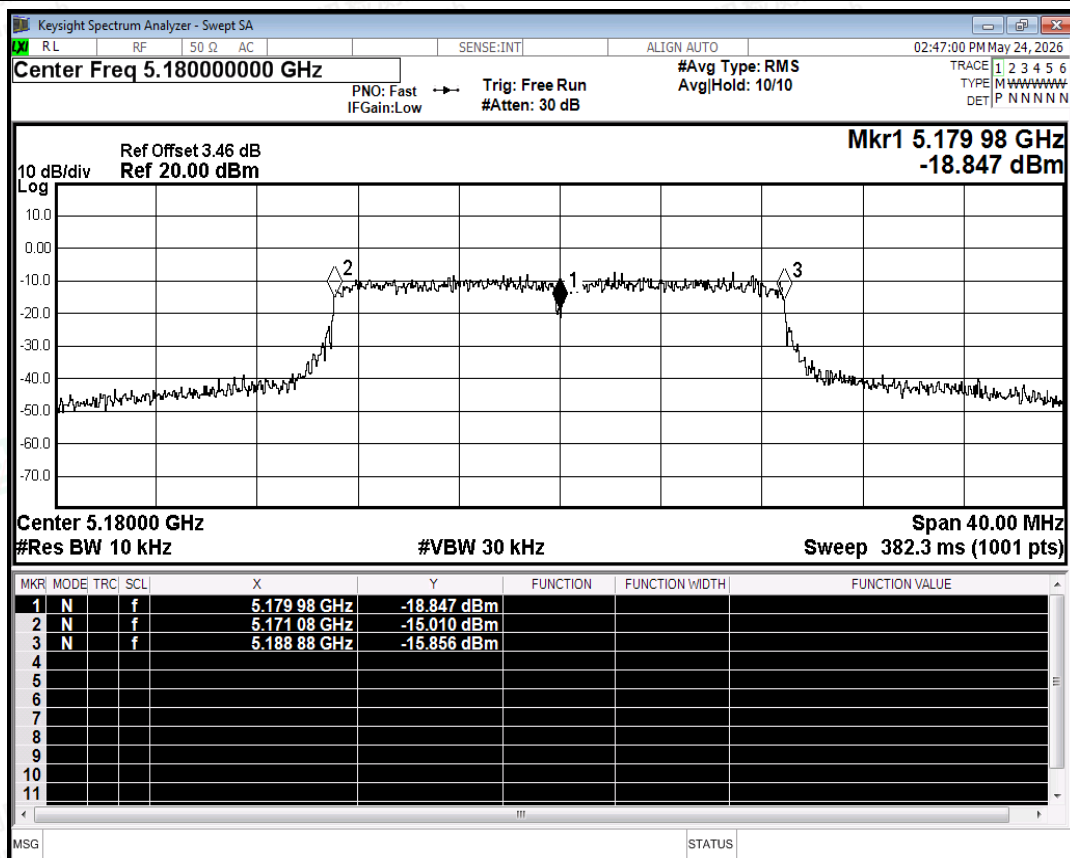
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Freq. Stability NVNT a 5240MHz Ant2



Freq. Stability NVNT n20 5180MHz Ant2

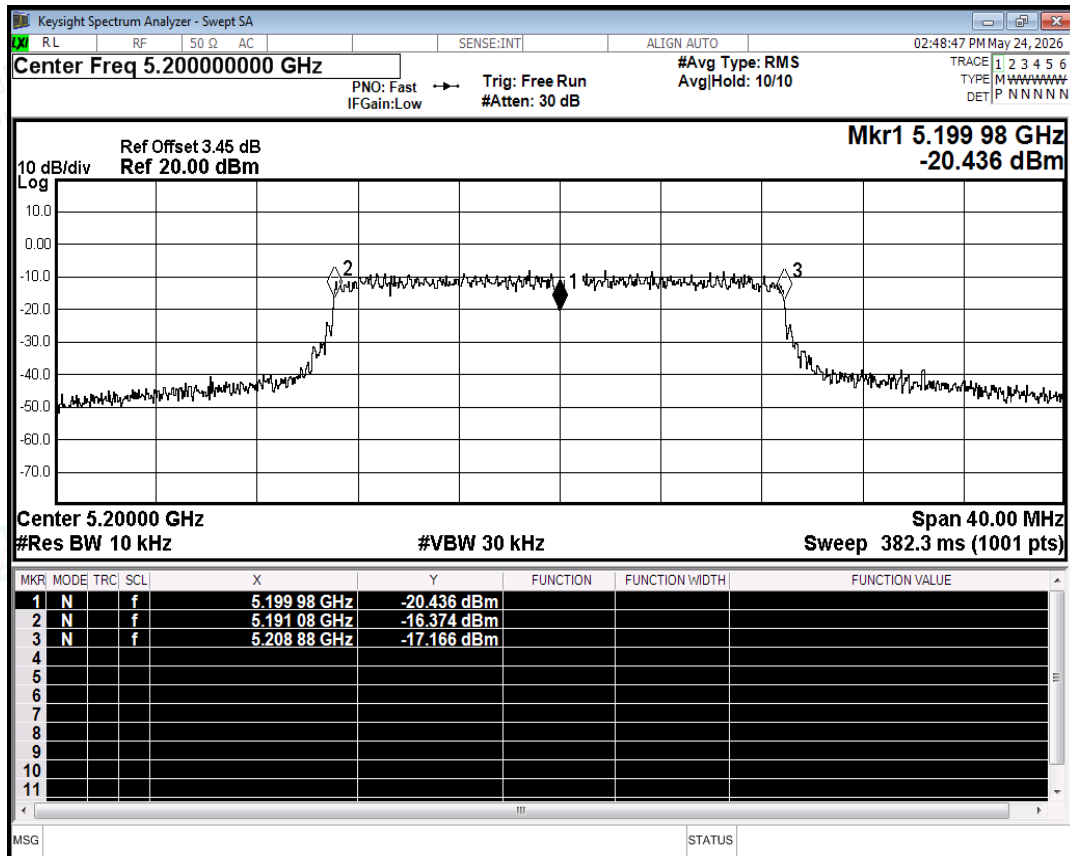


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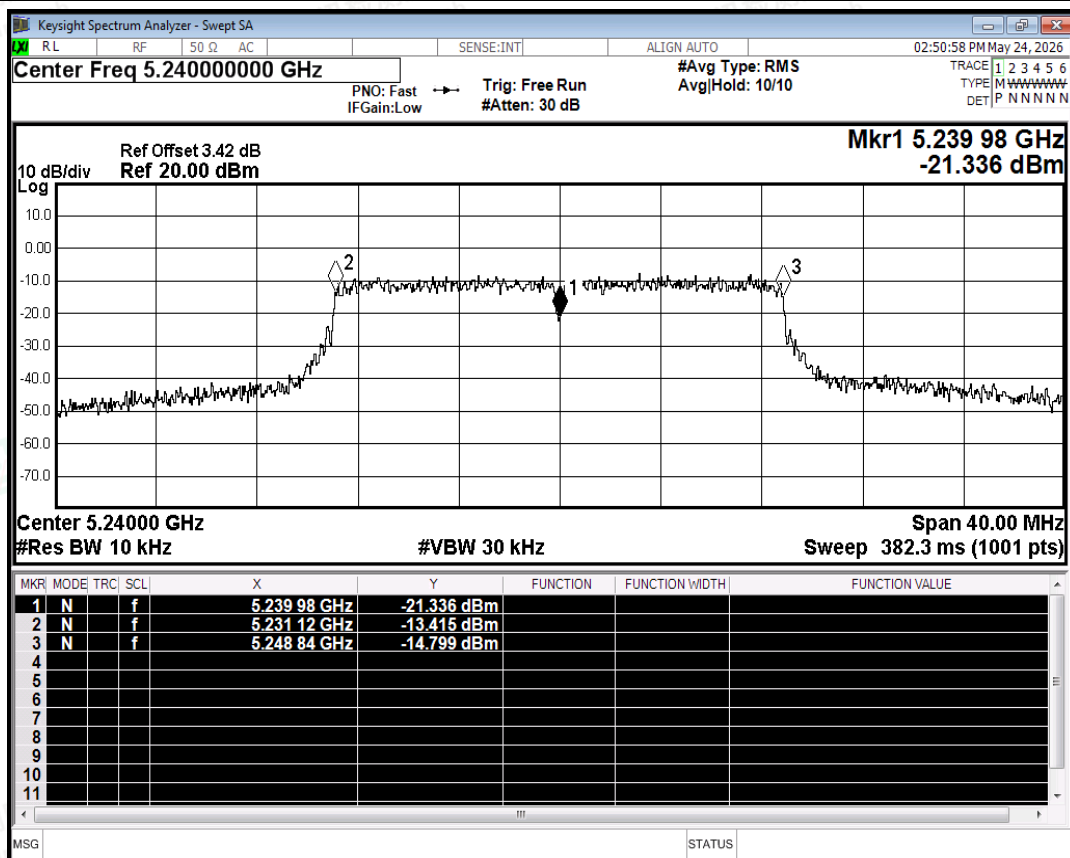
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Freq. Stability NVNT n20 5200MHz Ant2



Freq. Stability NVNT n20 5240MHz Ant2

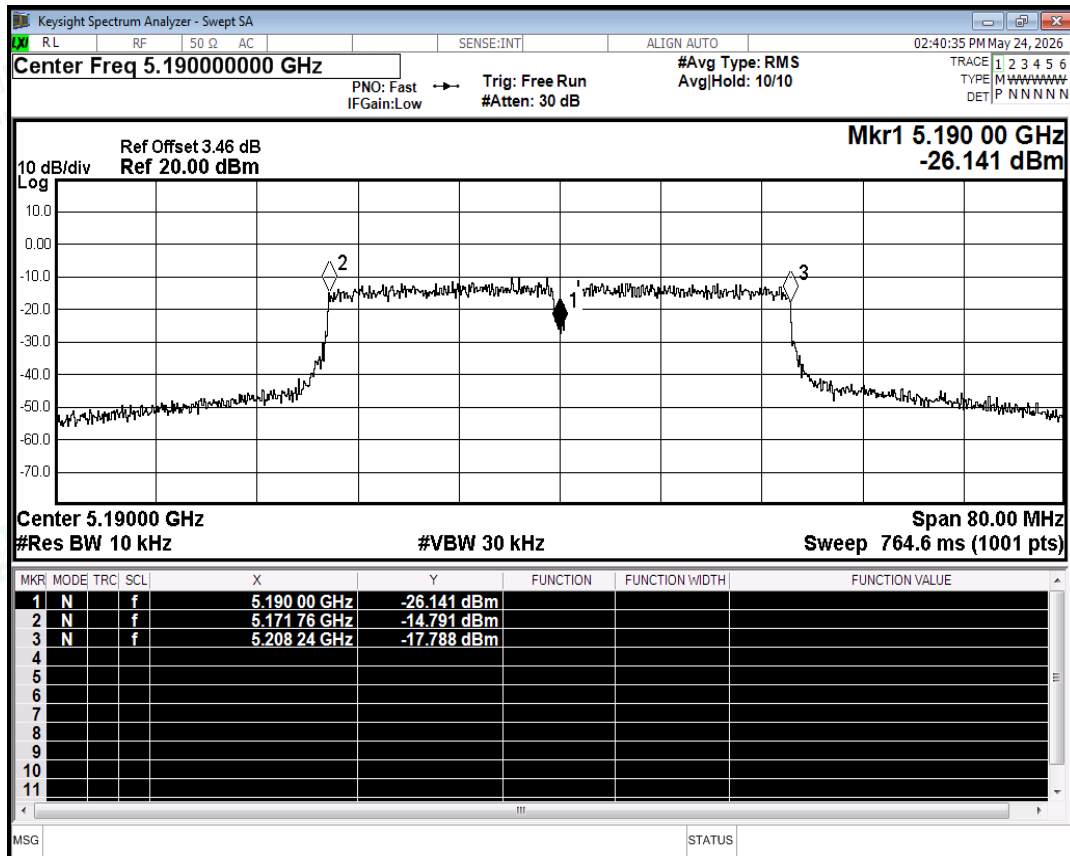


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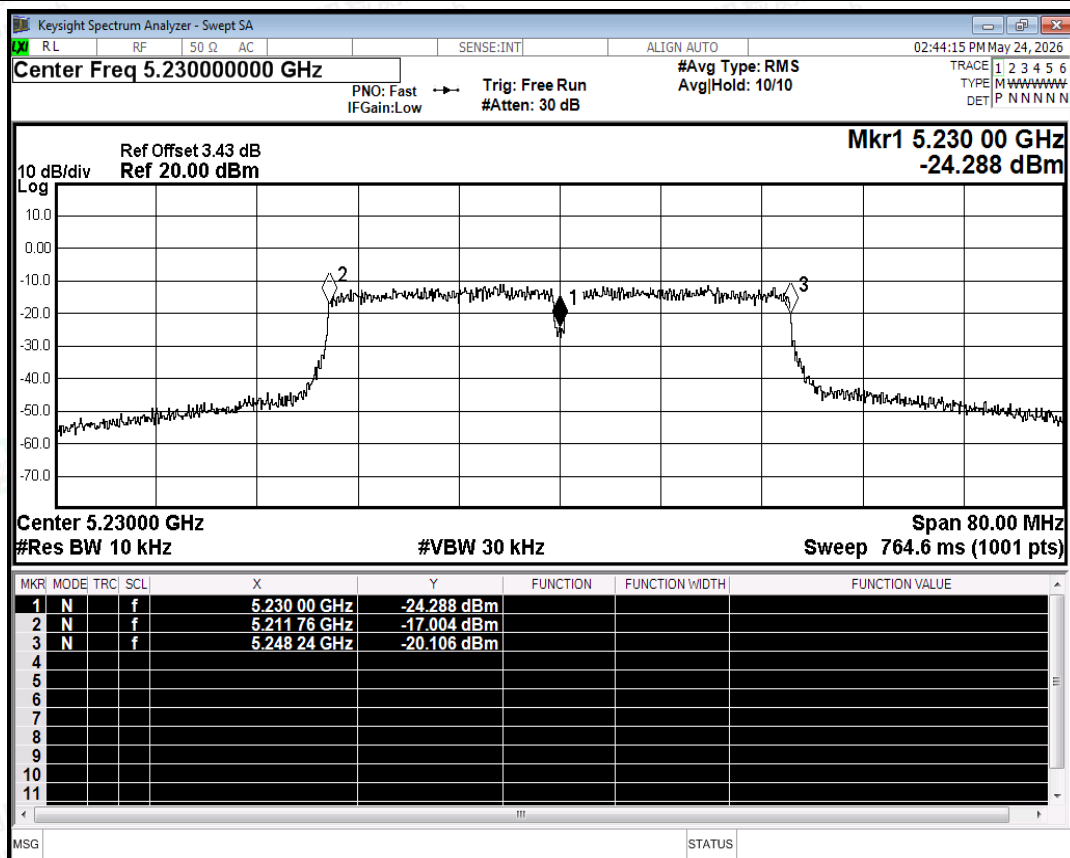
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Freq. Stability NVNT n40 5190MHz Ant2



Freq. Stability NVNT n40 5230MHz Ant2



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