



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Tablet

Test Model: TAB10

Environmental Conditions

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





D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	21.337	≥ 0.5	Pass
NVNT	a	5200	Ant1	21.968	≥ 0.5	Pass
NVNT	a	5240	Ant1	27.529	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	15.224	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	15.211	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	15.223	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	48.598	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	48.493	≥ 0.5	Pass

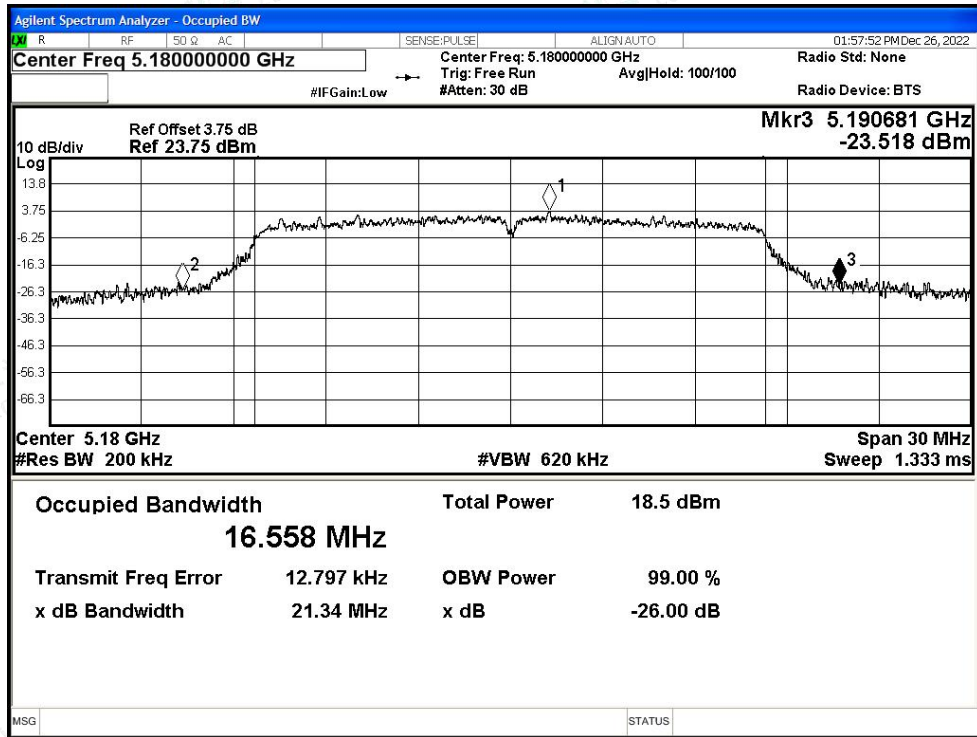


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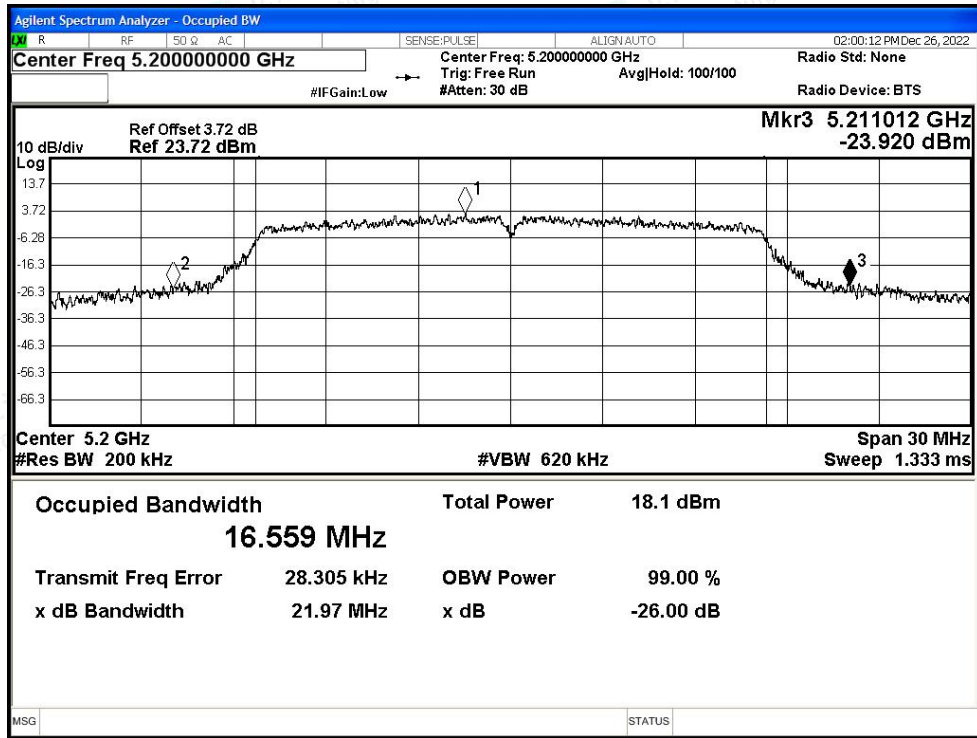


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

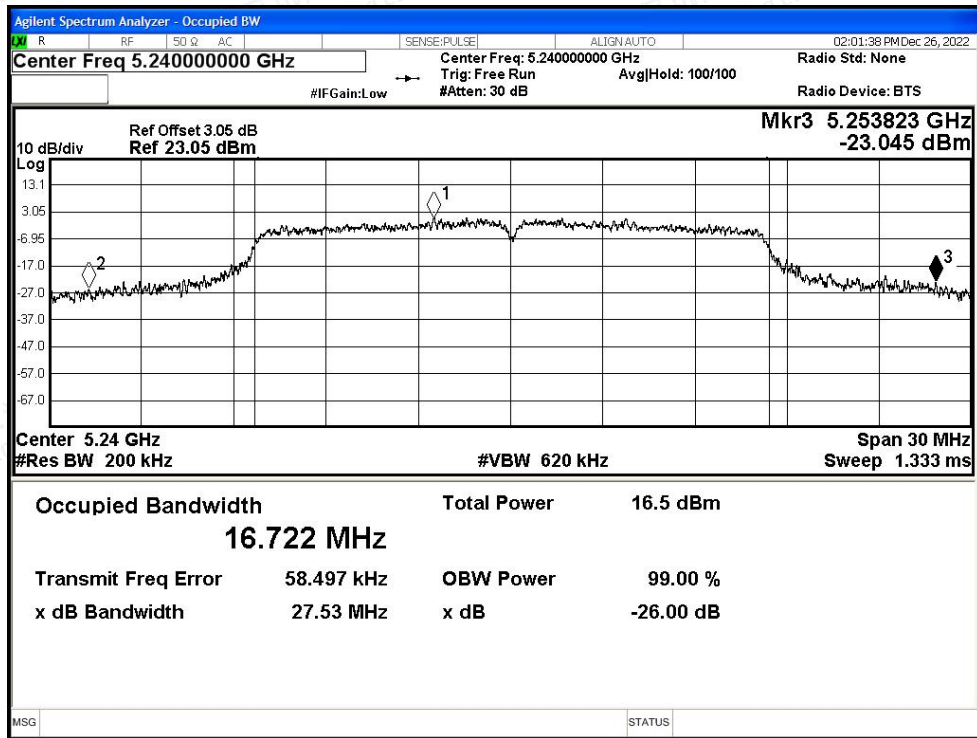


-26dB Bandwidth NVNT a 5200MHz Ant1





-26dB Bandwidth NVNT a 5240MHz Ant1

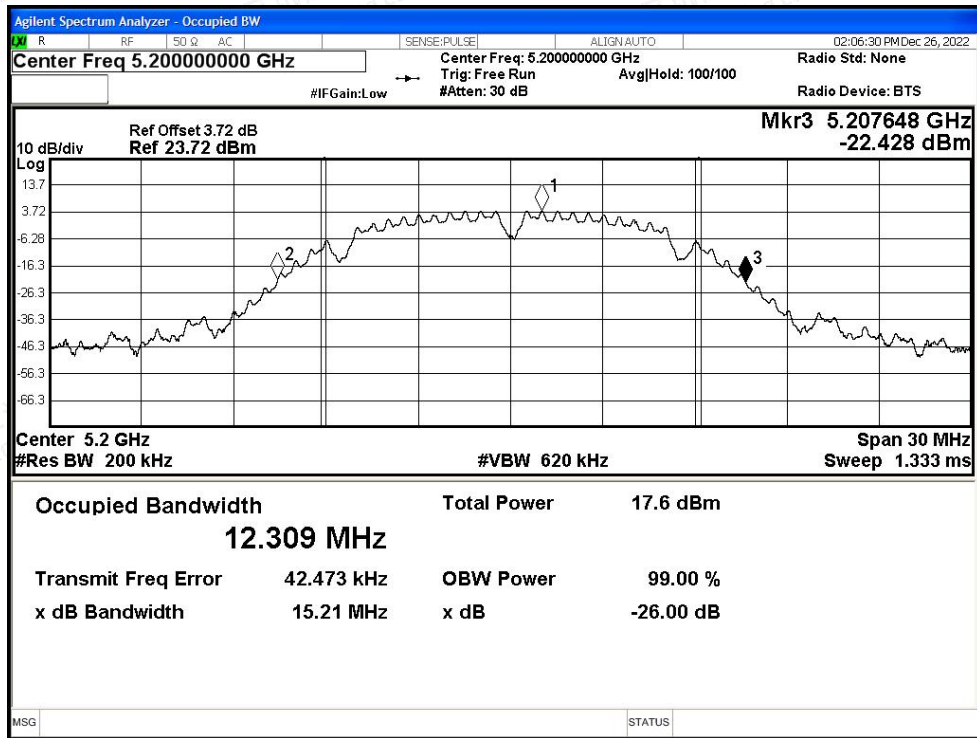


-26dB Bandwidth NVNT ac20 5180MHz Ant1





-26dB Bandwidth NVNT ac20 5200MHz Ant1

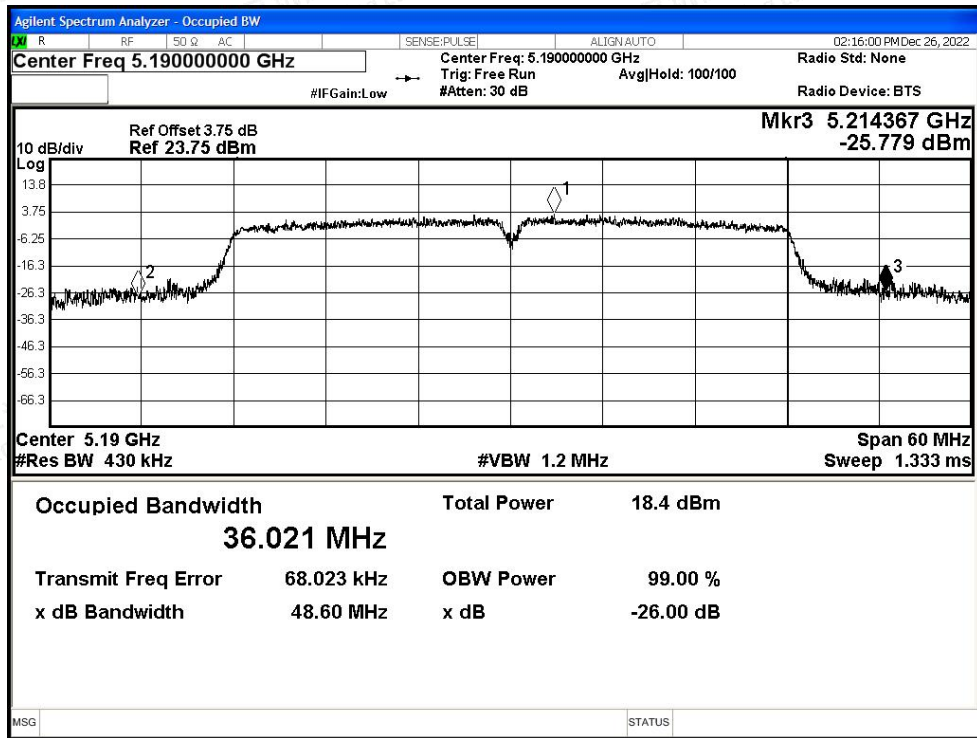


-26dB Bandwidth NVNT ac20 5240MHz Ant1

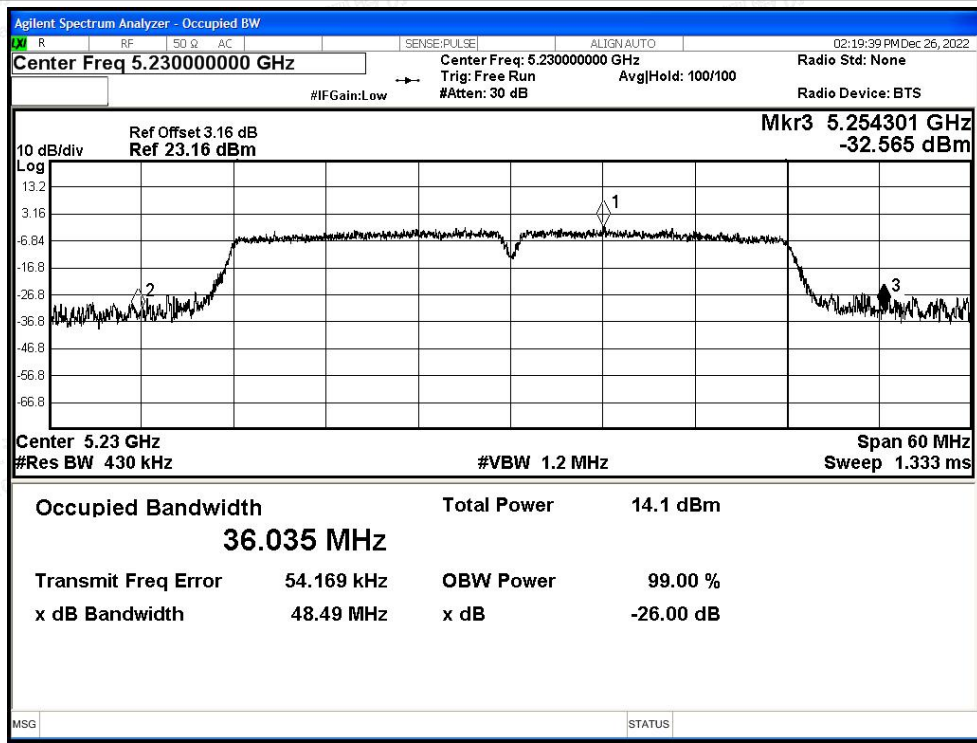




-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1





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	12.76	0.11	12.87	24	Pass
NVNT	a	5200	Ant1	12.6	0.11	12.71	24	Pass
NVNT	a	5240	Ant1	10.92	0.11	11.03	24	Pass
NVNT	ac20	5180	Ant1	12.56	0	12.56	24	Pass
NVNT	ac20	5200	Ant1	12.78	0	12.78	24	Pass
NVNT	ac20	5240	Ant1	10.83	0	10.83	24	Pass
NVNT	ac40	5190	Ant1	12.56	0.22	12.78	24	Pass
NVNT	ac40	5230	Ant1	12.03	0.23	12.26	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.8	0.11	0.91	11	Pass
NVNT	a	5200	Ant1	0.98	0.11	1.09	11	Pass
NVNT	a	5240	Ant1	-1.48	0.11	-1.37	11	Pass
NVNT	ac20	5180	Ant1	3.89	0	3.89	11	Pass
NVNT	ac20	5200	Ant1	3.92	0	3.92	11	Pass
NVNT	ac20	5240	Ant1	1.99	0	1.99	11	Pass
NVNT	ac40	5190	Ant1	-3.41	0.22	-3.19	11	Pass
NVNT	ac40	5230	Ant1	-4.1	0.23	-3.87	11	Pass

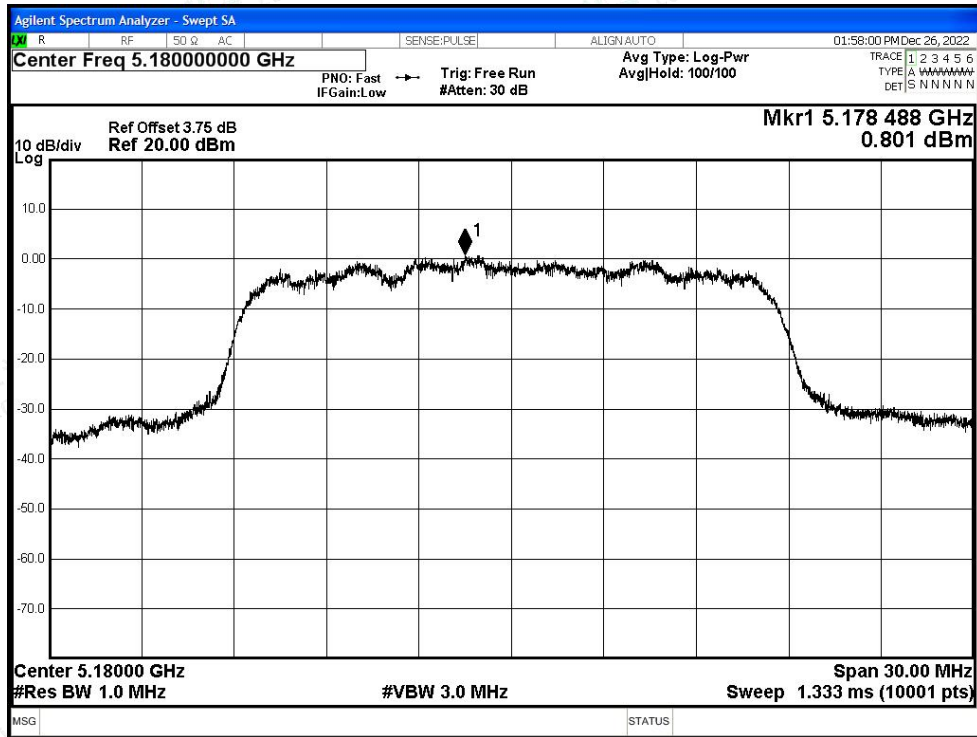


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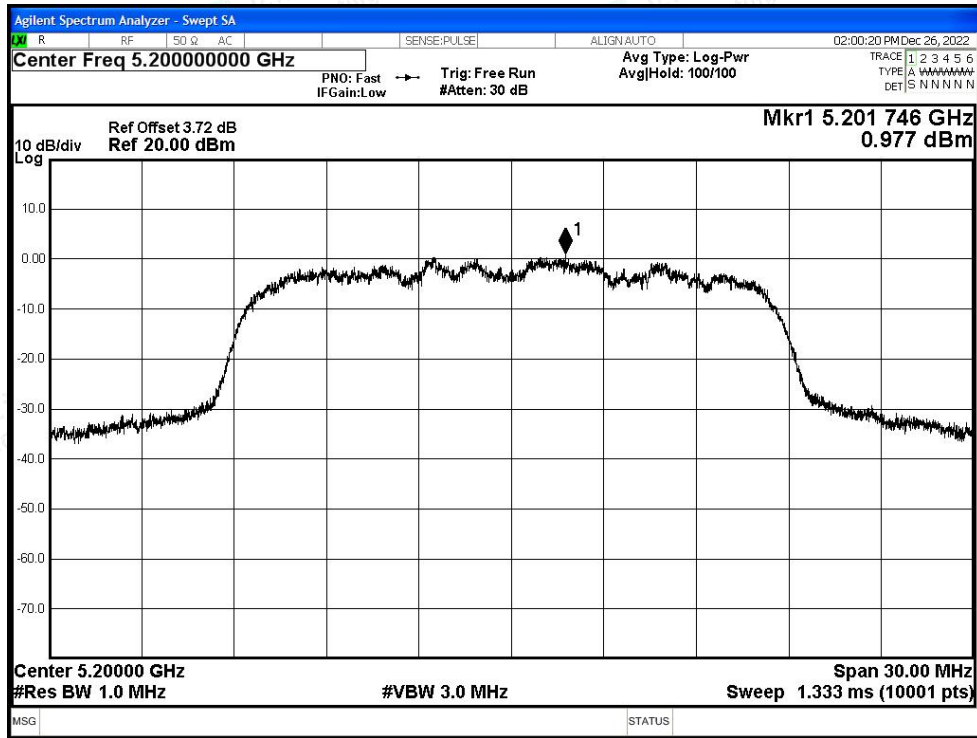


Test Graphs

PSD NVNT a 5180MHz Ant1

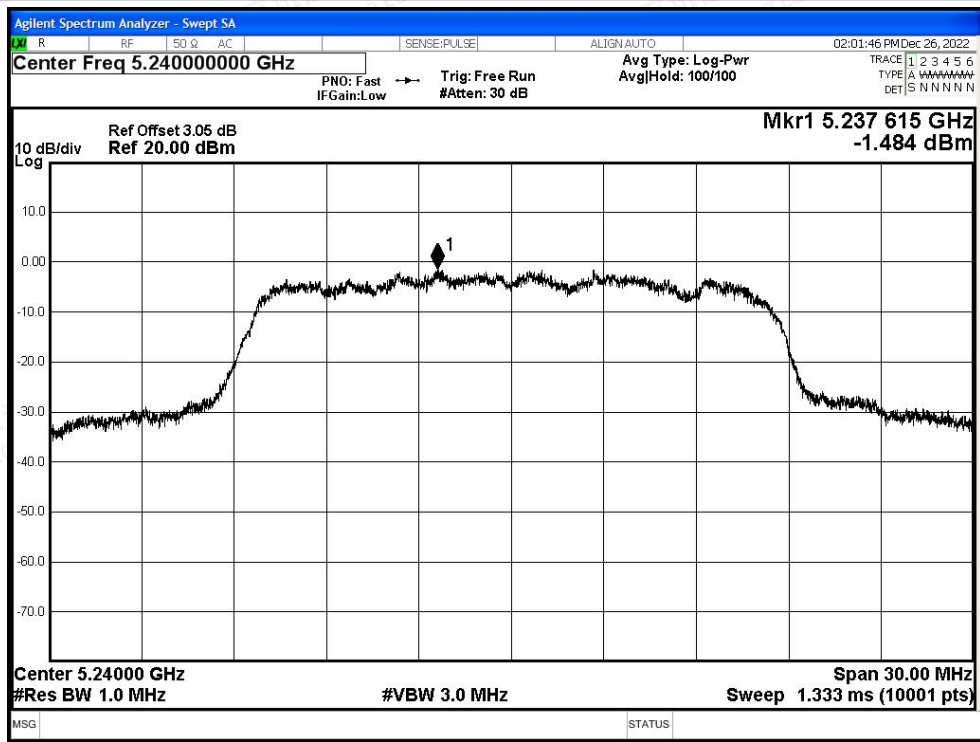


PSD NVNT a 5200MHz Ant1

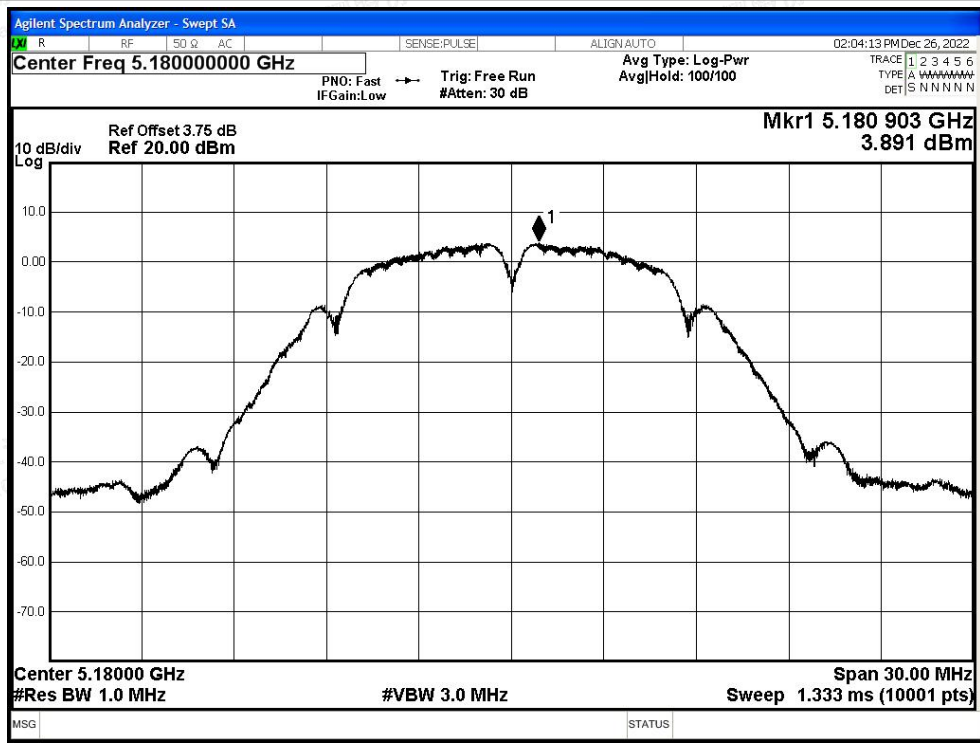




PSD NVNT a 5240MHz Ant1

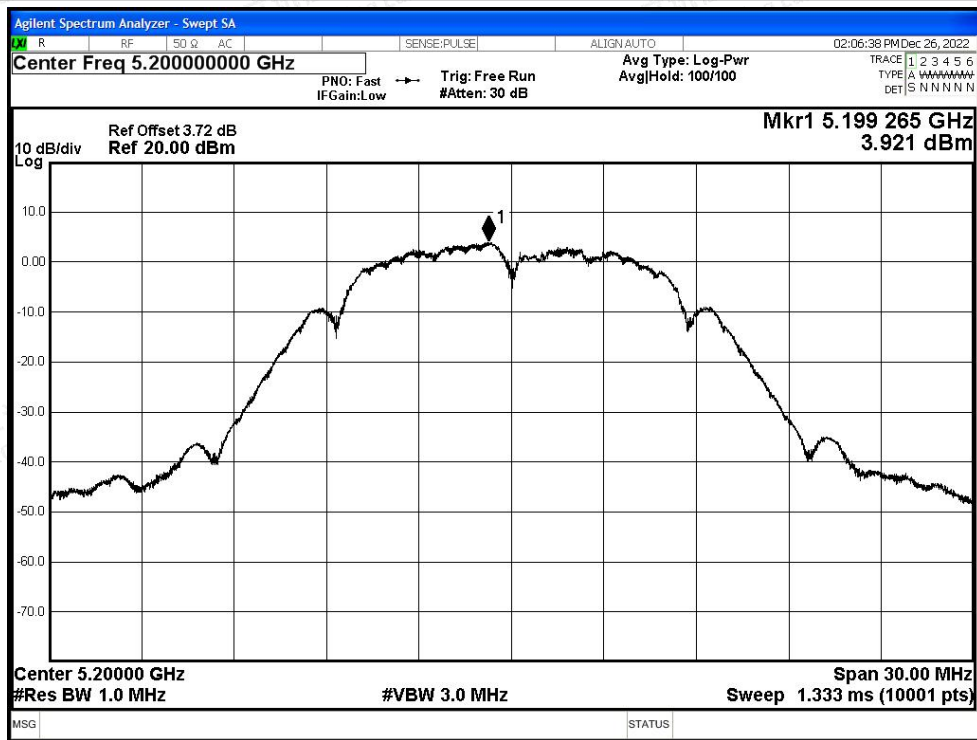


PSD NVNT ac20 5180MHz Ant1

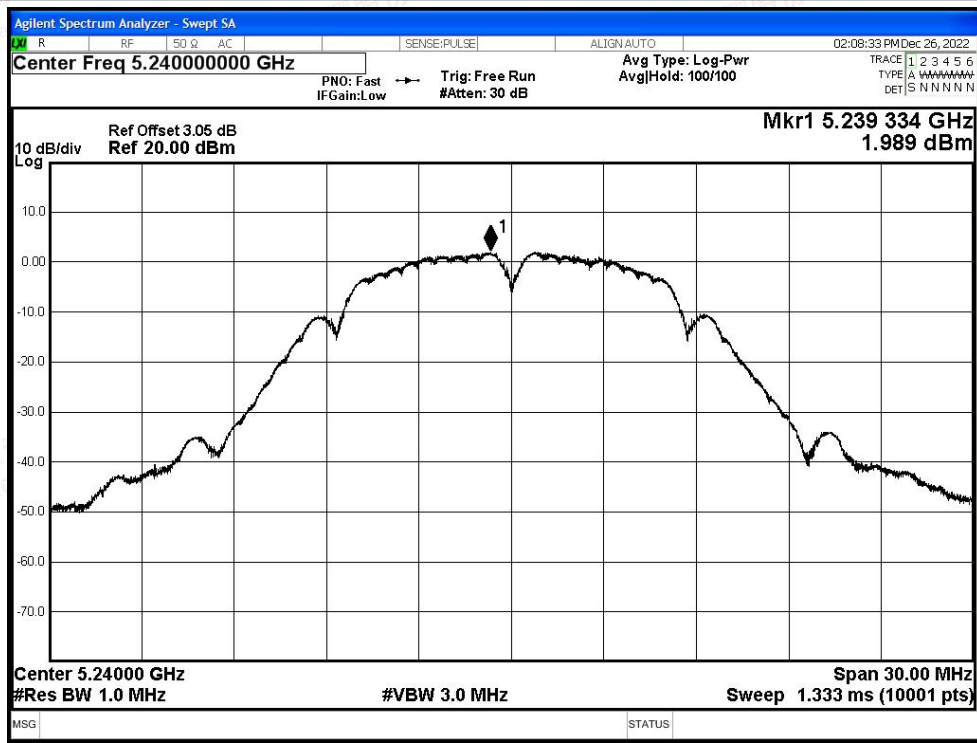




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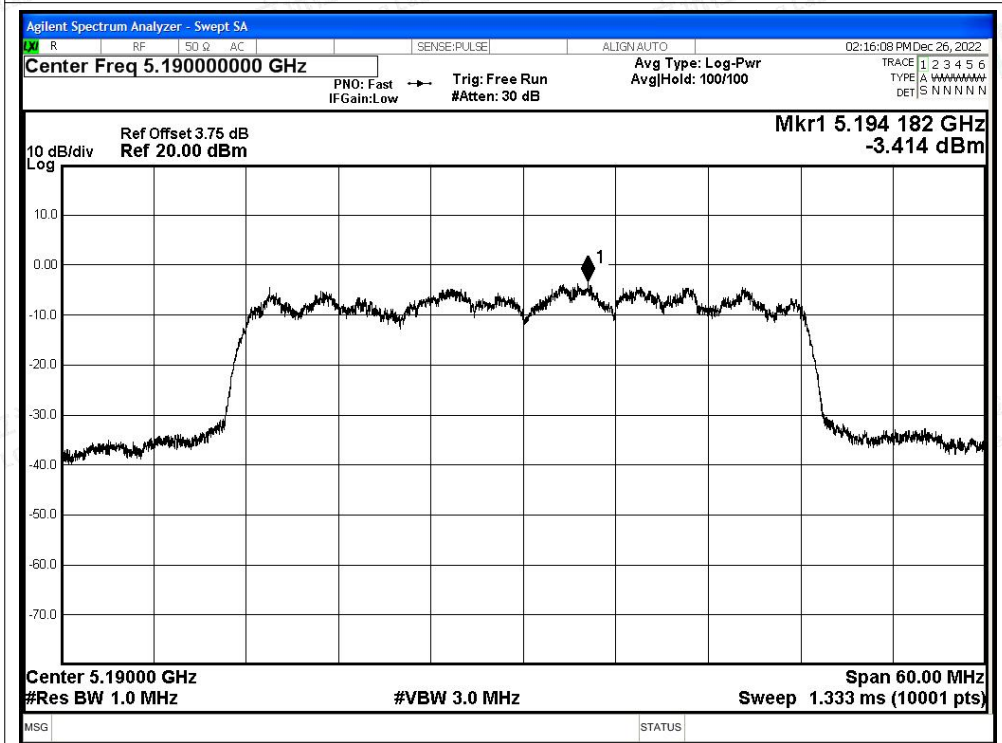


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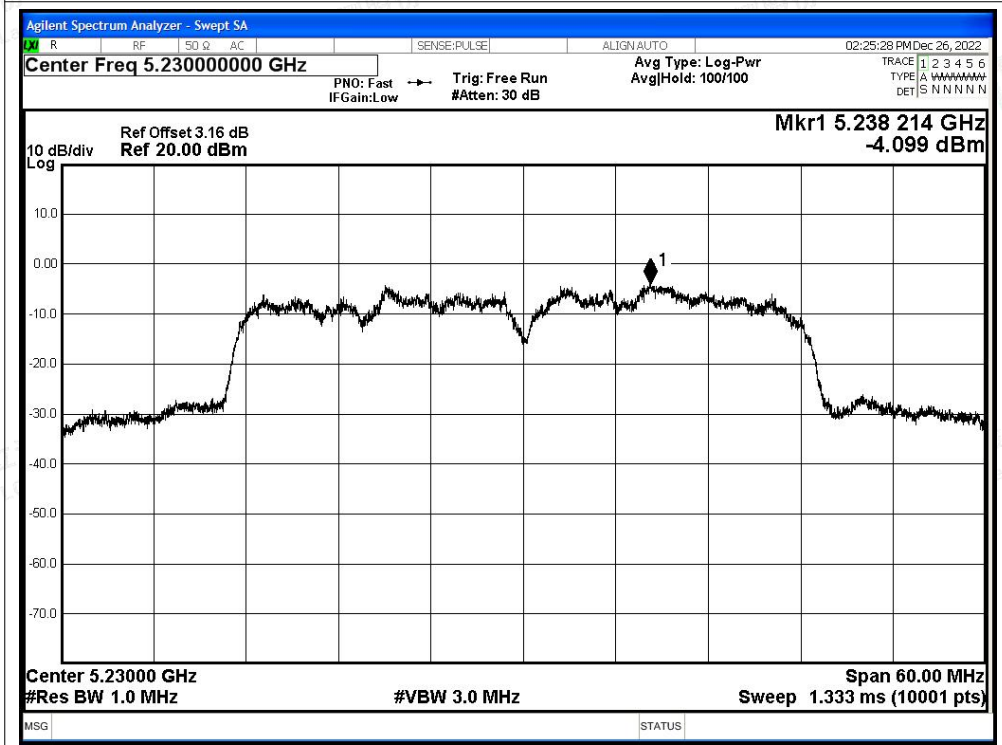




PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1





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	-49.79	2	47.44	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.52	2	37.71	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-38.71	2	58.52	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-51.97	2	45.26	Average	54	Pass
NVNT	a	5180	Ant1	5150	-42.91	2	54.32	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-51.87	2	45.36	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.36	2	49.87	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.13	2	41.1	Average	54	Pass
NVNT	a	5240	Ant1	5351.76	-44.44	2	52.79	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.8	-56.09	2	41.14	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.36	2	48.87	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.64	2	38.59	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.95	2	48.28	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-59.46	2	37.77	Average	54	Pass
NVNT	ac20	5180	Ant1	4990.7	-46.07	2	51.16	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5128.6	-56.94	2	40.29	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-47.77	2	49.46	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-57.11	2	40.12	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.91	2	48.32	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-58.64	2	38.59	Average	54	Pass
NVNT	ac20	5240	Ant1	5393.52	-46.41	2	50.82	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5396.88	-57.21	2	40.02	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-47.76	2	49.47	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-59.25	2	37.98	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.17	2	47.06	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.34	2	37.89	Average	54	Pass
NVNT	ac40	5190	Ant1	5129.26	-45.38	2	51.85	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-55.89	2	41.34	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-46.95	2	50.28	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-55.89	2	41.34	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.15	2	48.08	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.26	2	39.97	Average	54	Pass
NVNT	ac40	5230	Ant1	5360.64	-45.77	2	51.46	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5376.84	-56.04	2	41.19	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.68	2	47.55	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.49	2	38.74	Average	54	Pass

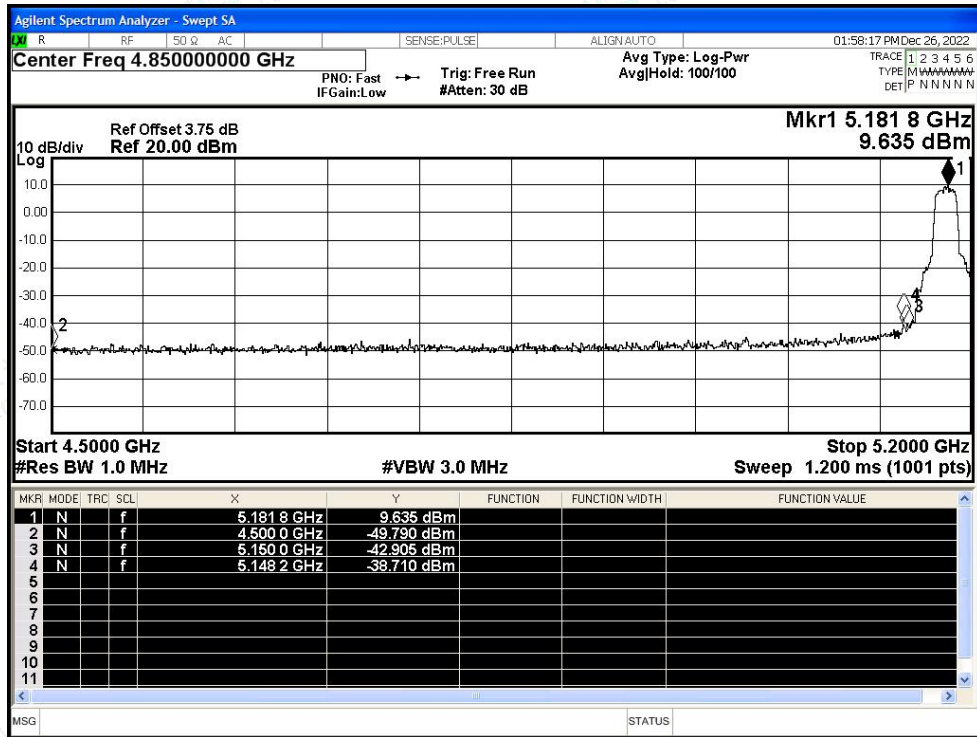


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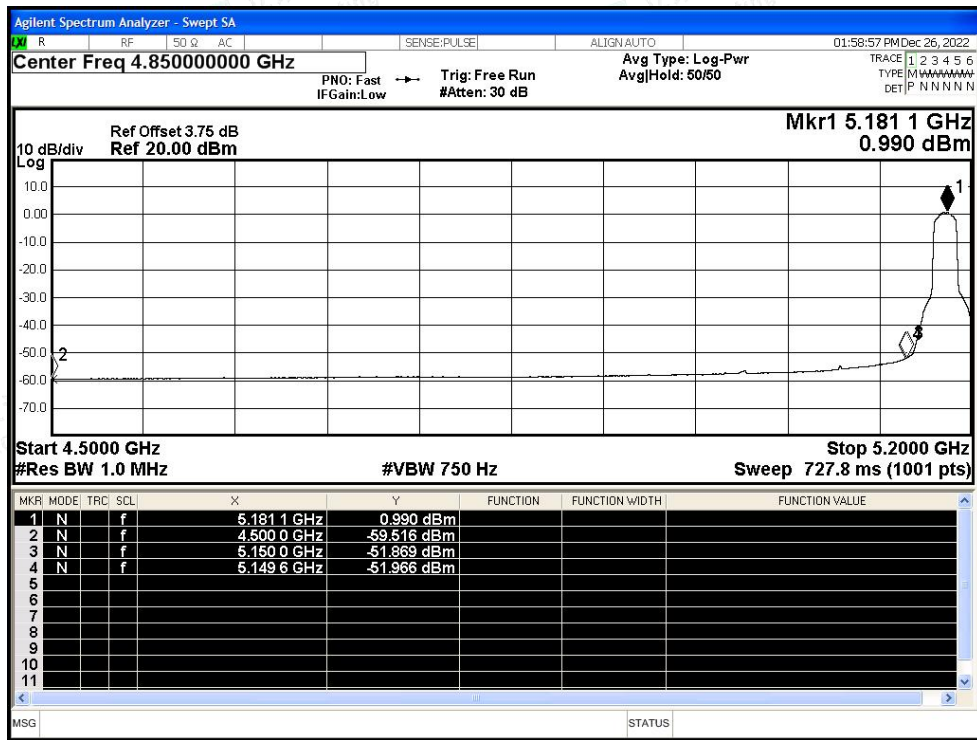


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

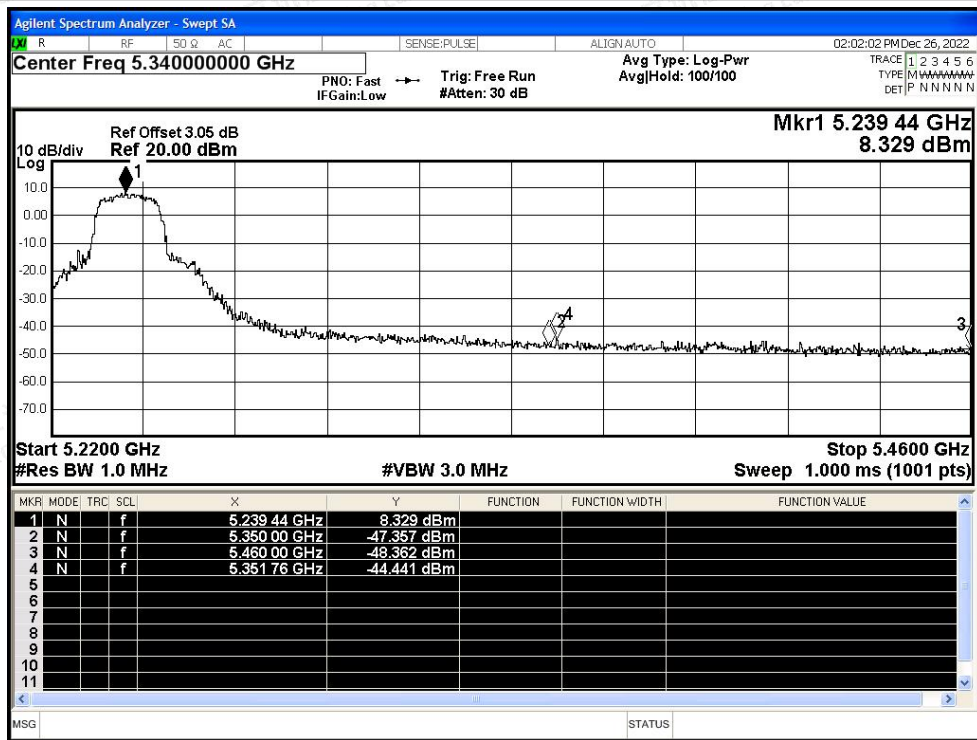


Restrict Band NVNT a 5180MHz Ant1 Average

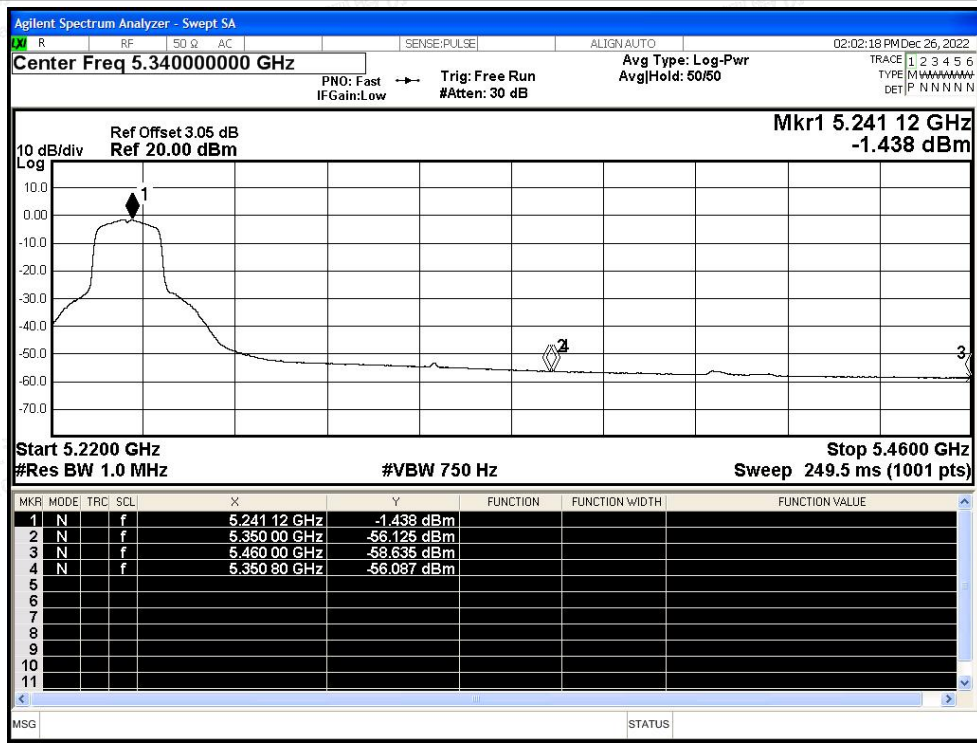




Restrict Band NVNT a 5240MHz Ant1 Peak

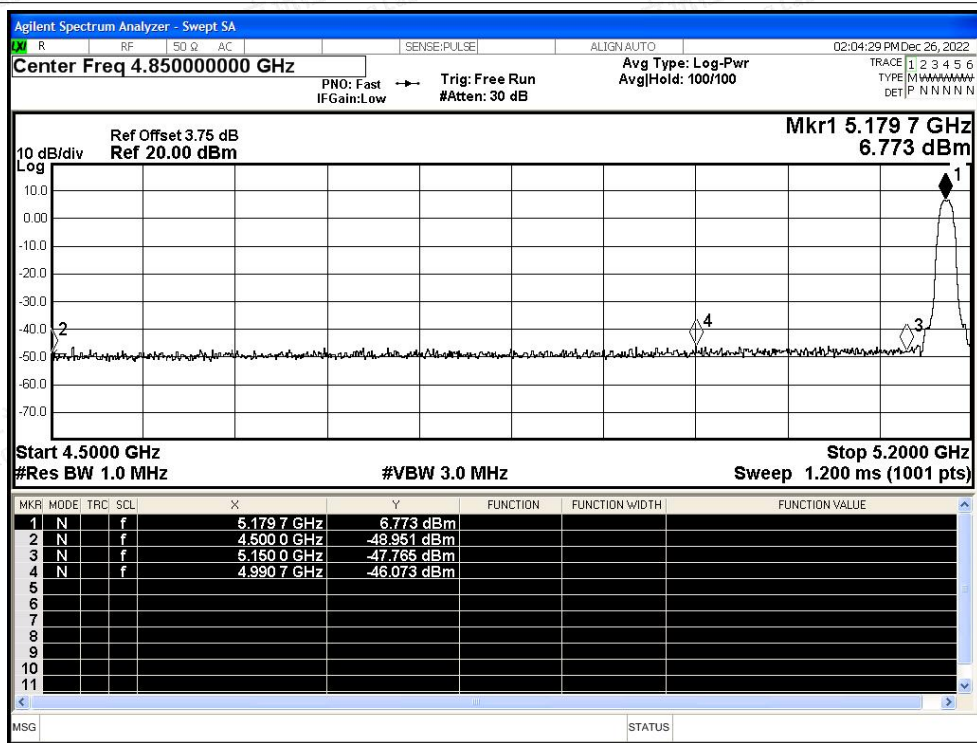


Restrict Band NVNT a 5240MHz Ant1 Average

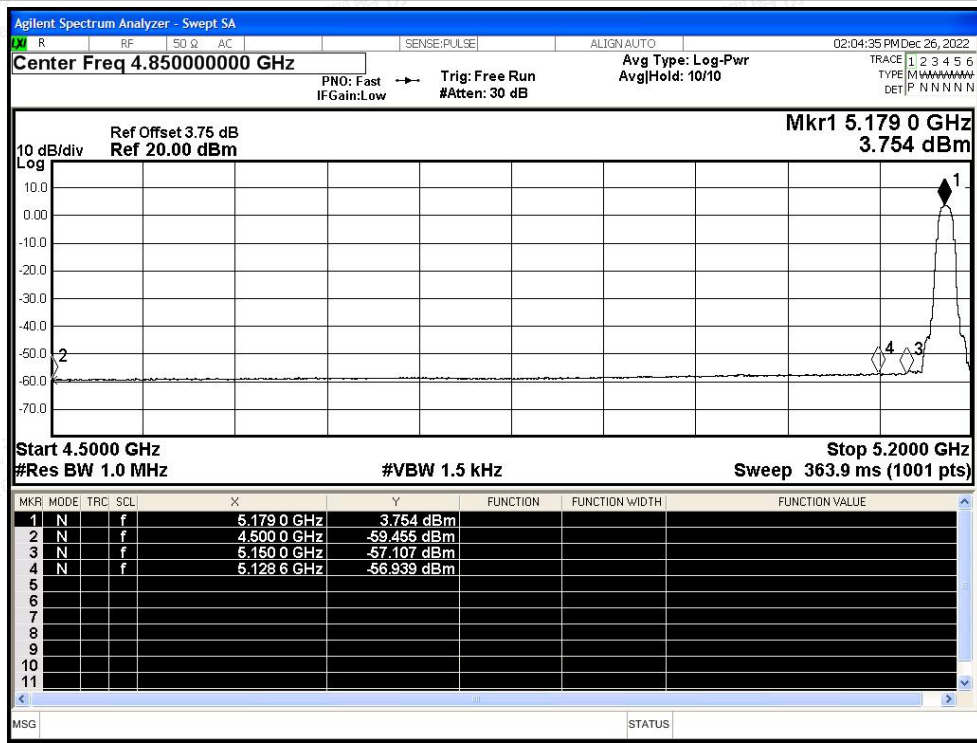




Restrict Band NVNT ac20 5180MHz Ant1 Peak

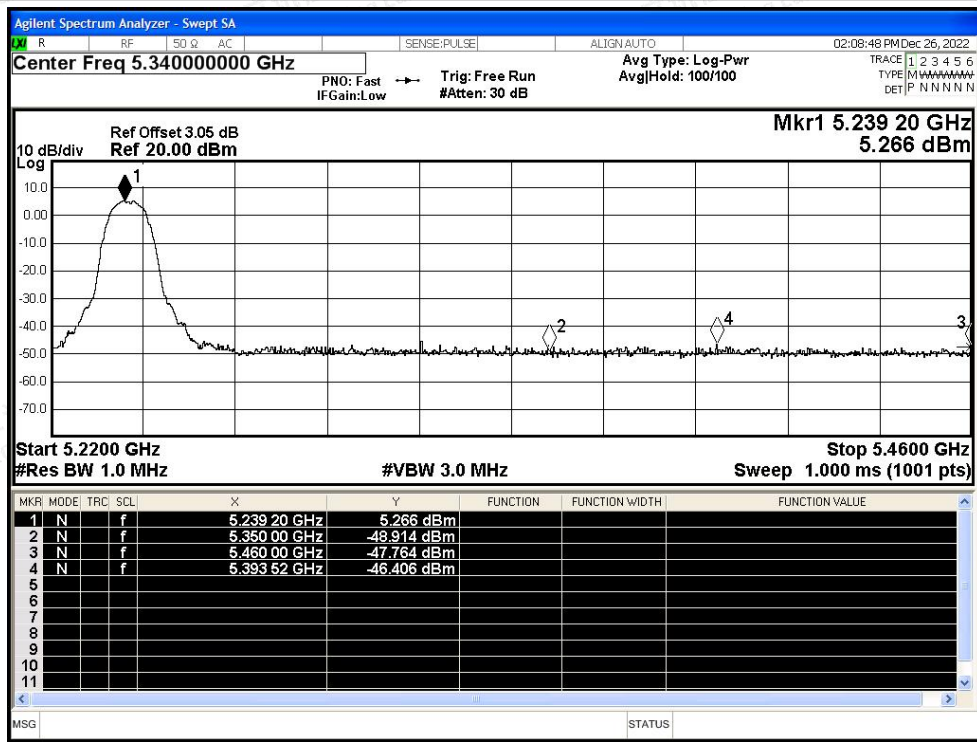


Restrict Band NVNT ac20 5180MHz Ant1 Average

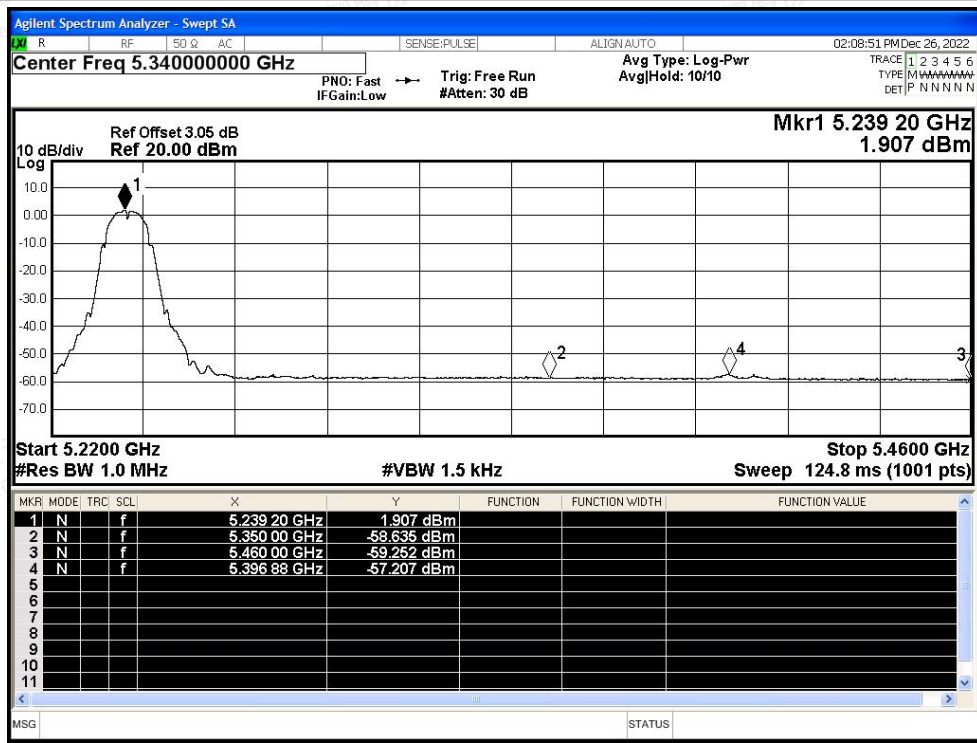




Restrict Band NVNT ac20 5240MHz Ant1 Peak

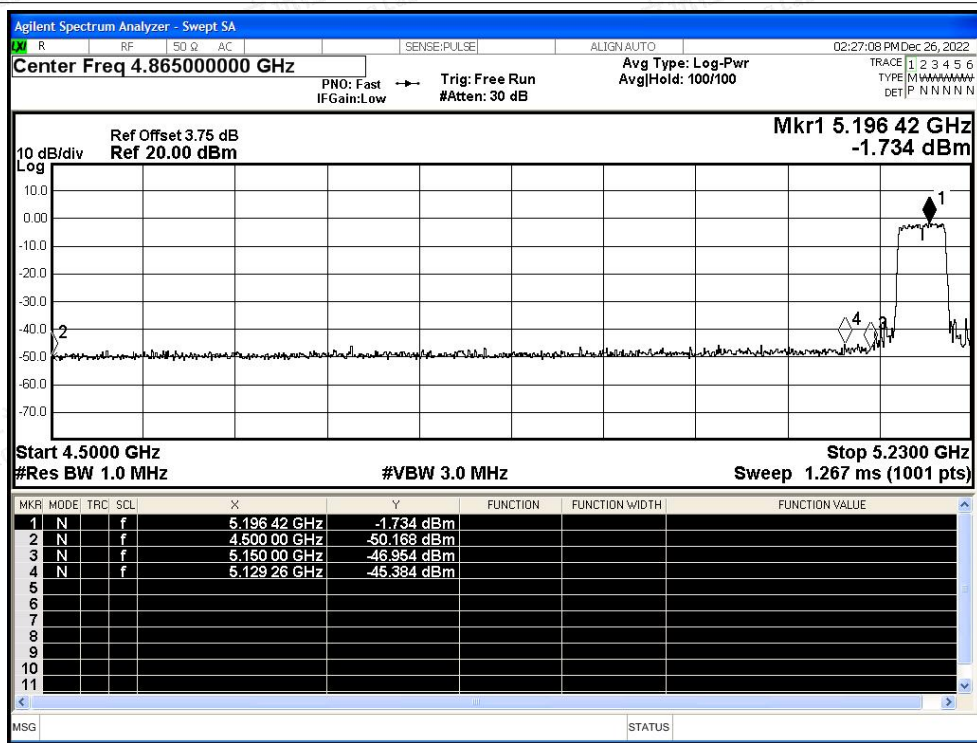


Restrict Band NVNT ac20 5240MHz Ant1 Average

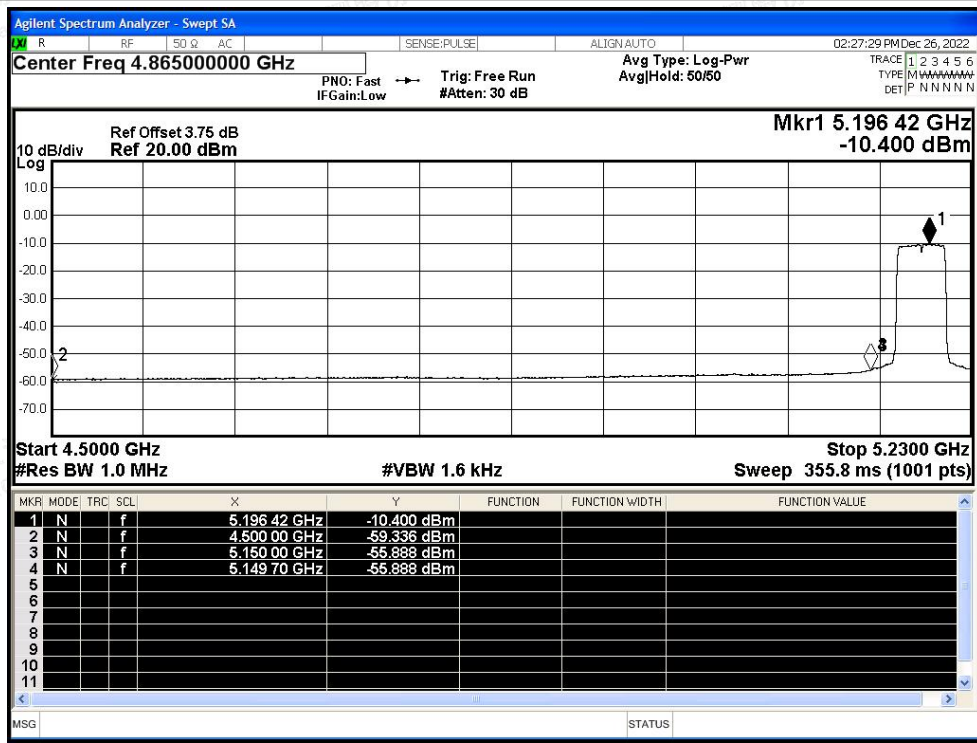




Restrict Band NVNT ac40 5190MHz Ant1 Peak

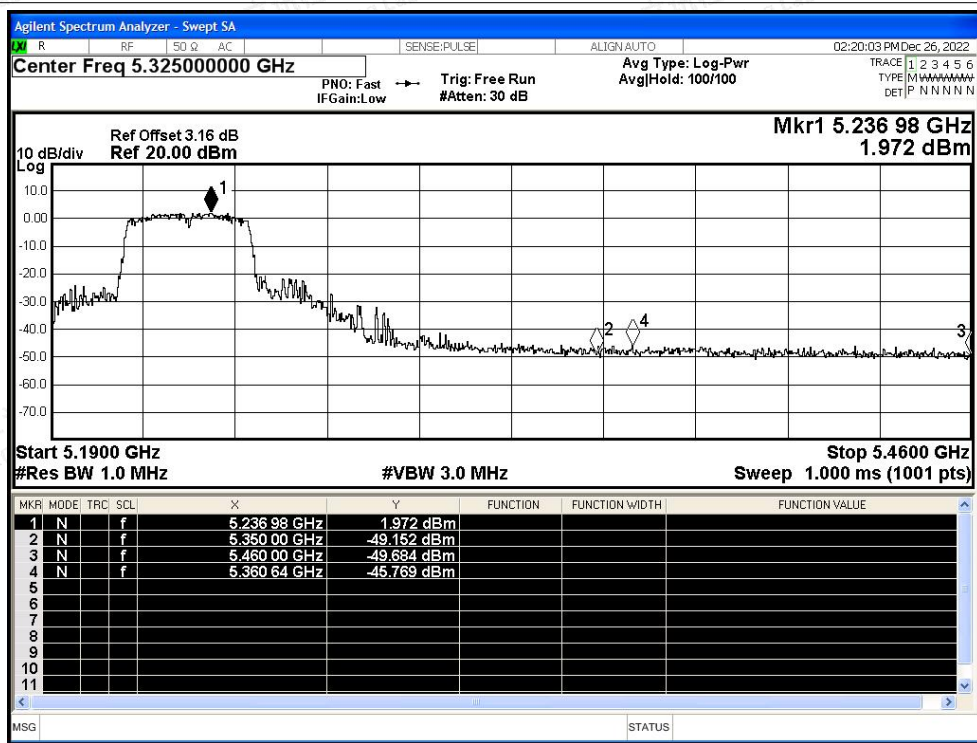


Restrict Band NVNT ac40 5190MHz Ant1 Average

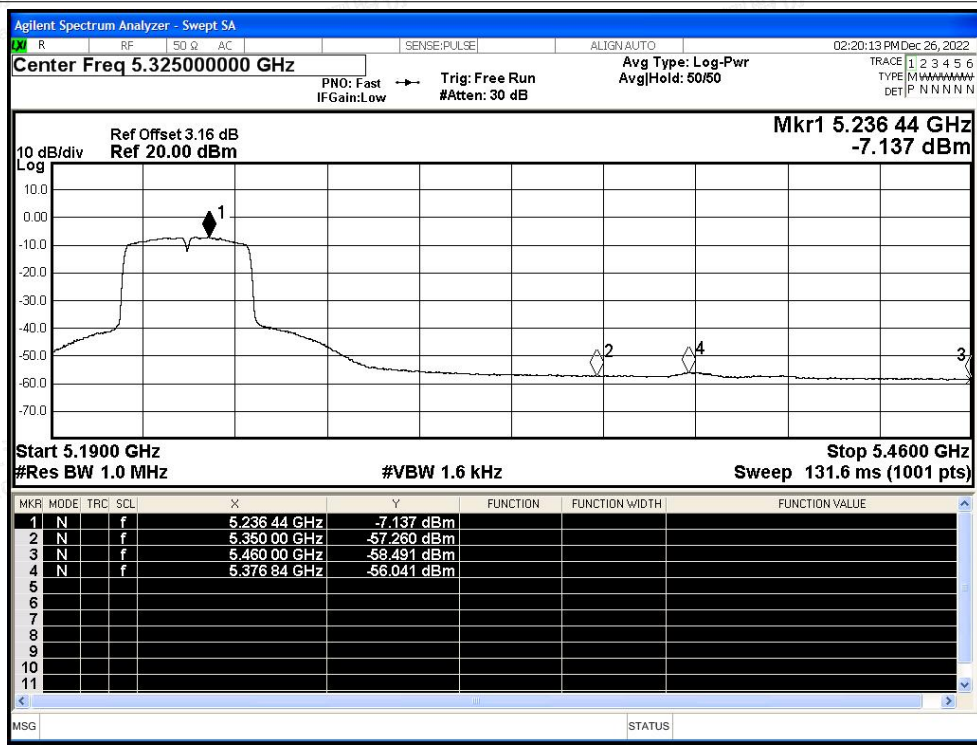




Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant1	5180.02	20000	3.86	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	5190.04	40000	7.71	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass



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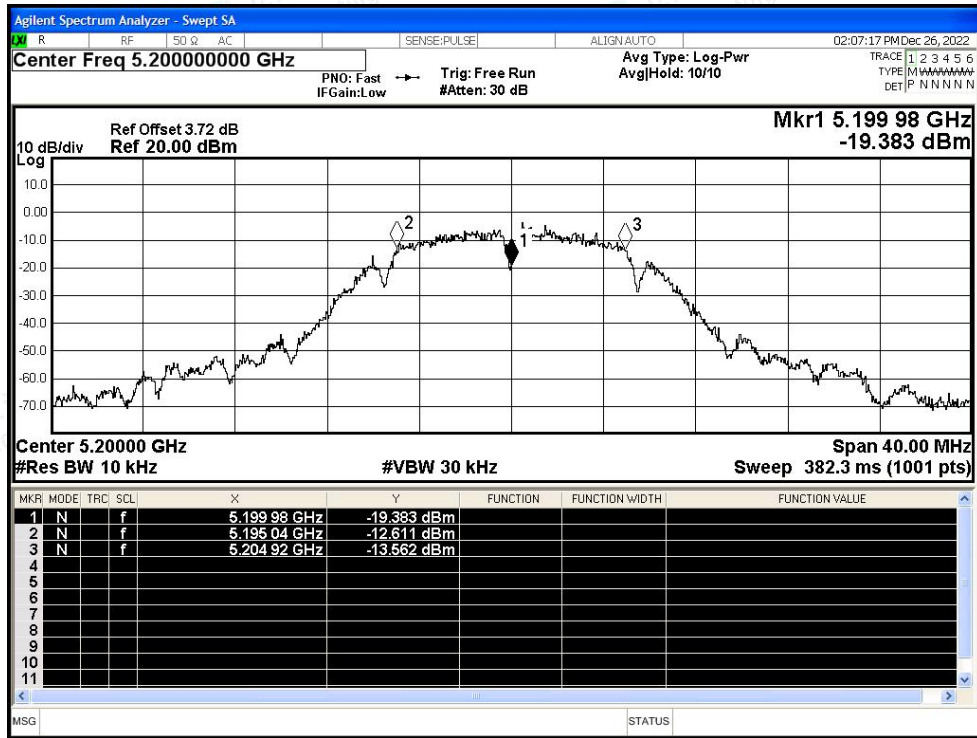


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant1

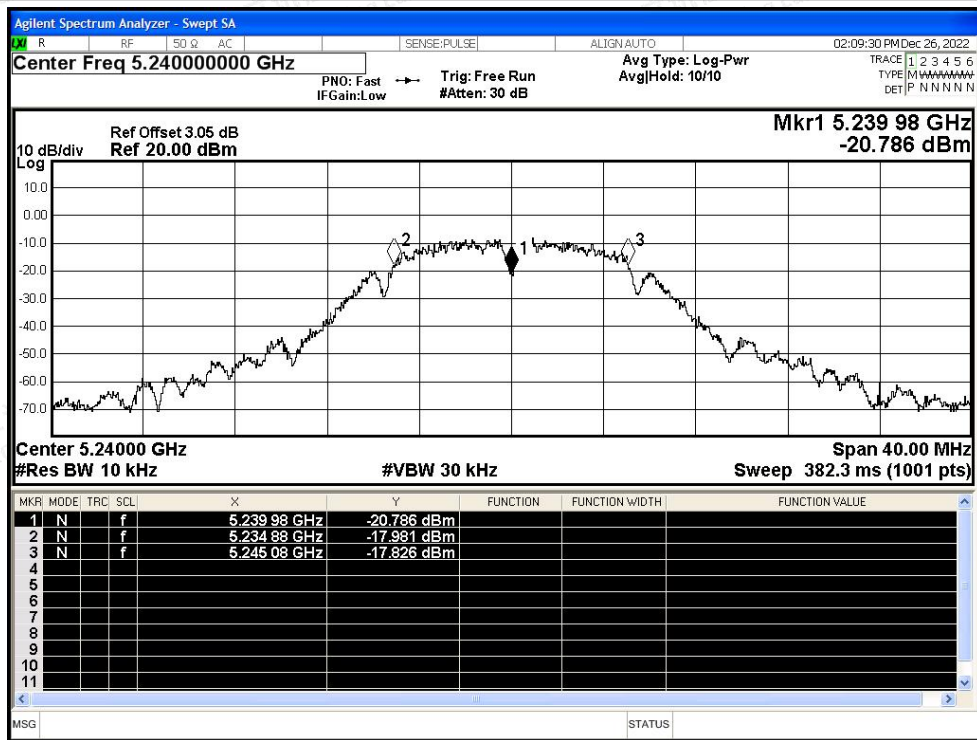


Freq. Stability NVNT ac20 5200MHz Ant1

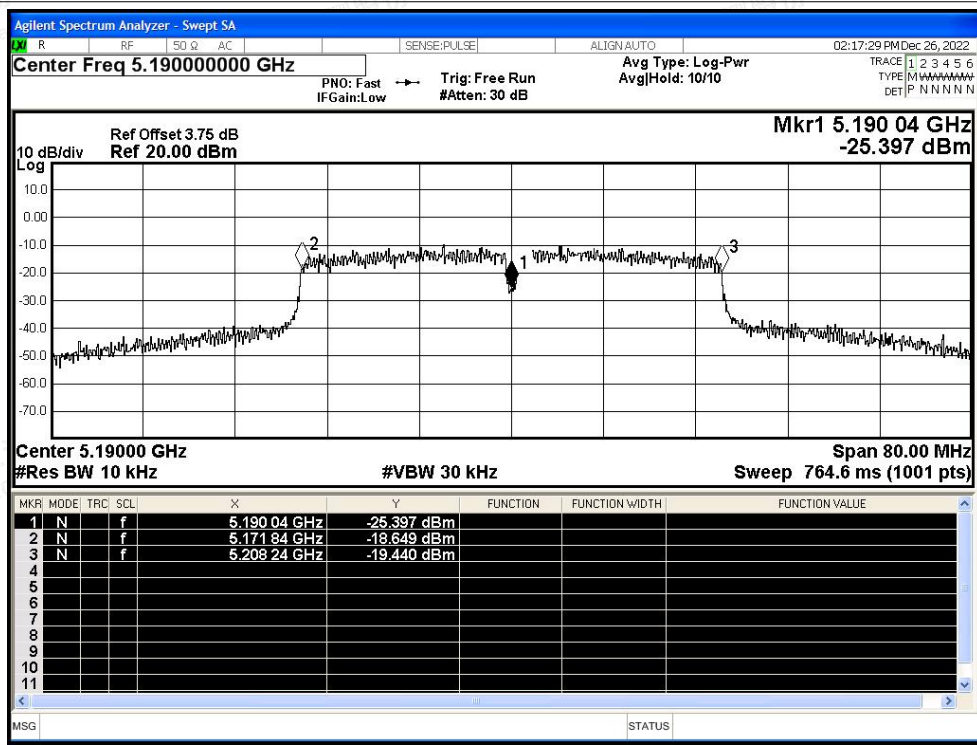




Freq. Stability NVNT ac20 5240MHz Ant1

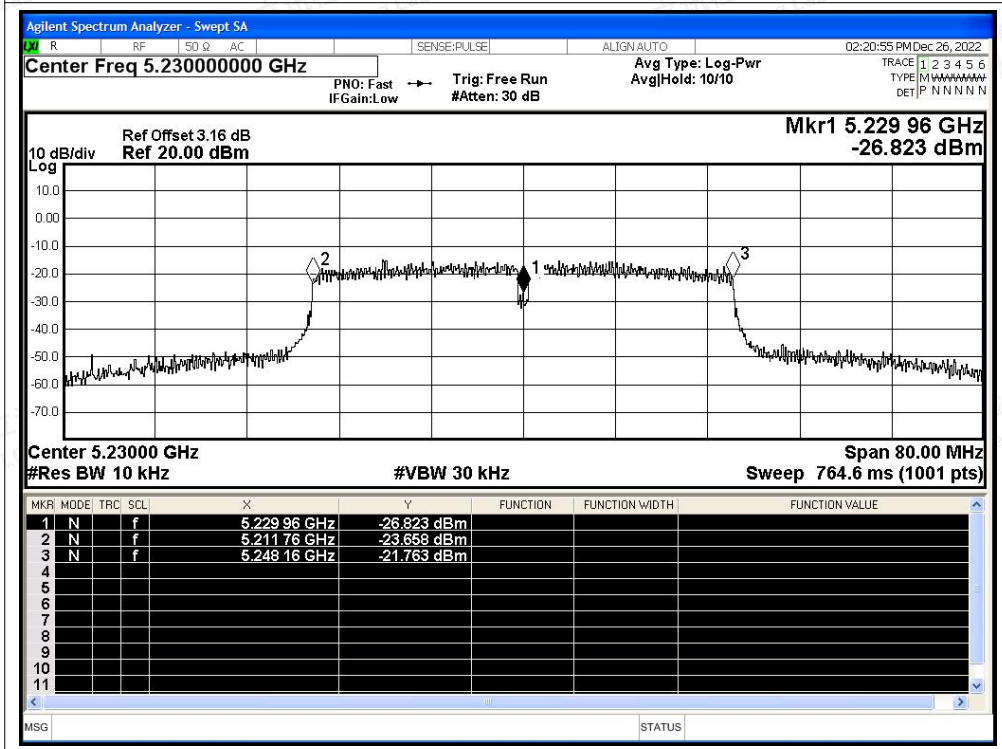


Freq. Stability NVNT ac40 5190MHz Ant1





Freq. Stability NVNT ac40 5230MHz Ant1





D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.55	0.11	0.72
NVNT	a	5200	Ant1	97.48	0.11	0.72
NVNT	a	5240	Ant1	97.55	0.11	0.72
NVNT	ac20	5180	Ant1	99.74	0	0.01
NVNT	ac20	5200	Ant1	99.73	0	0.01
NVNT	ac20	5240	Ant1	99.73	0	0.01
NVNT	ac40	5190	Ant1	95.02	0.22	1.54
NVNT	ac40	5230	Ant1	94.88	0.23	1.54

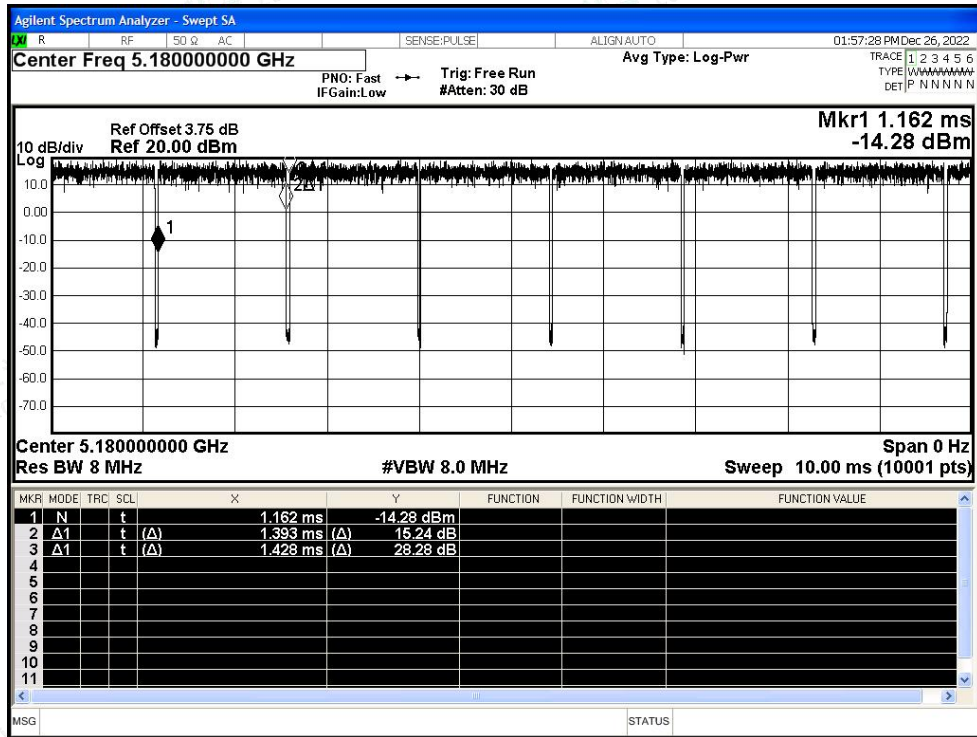


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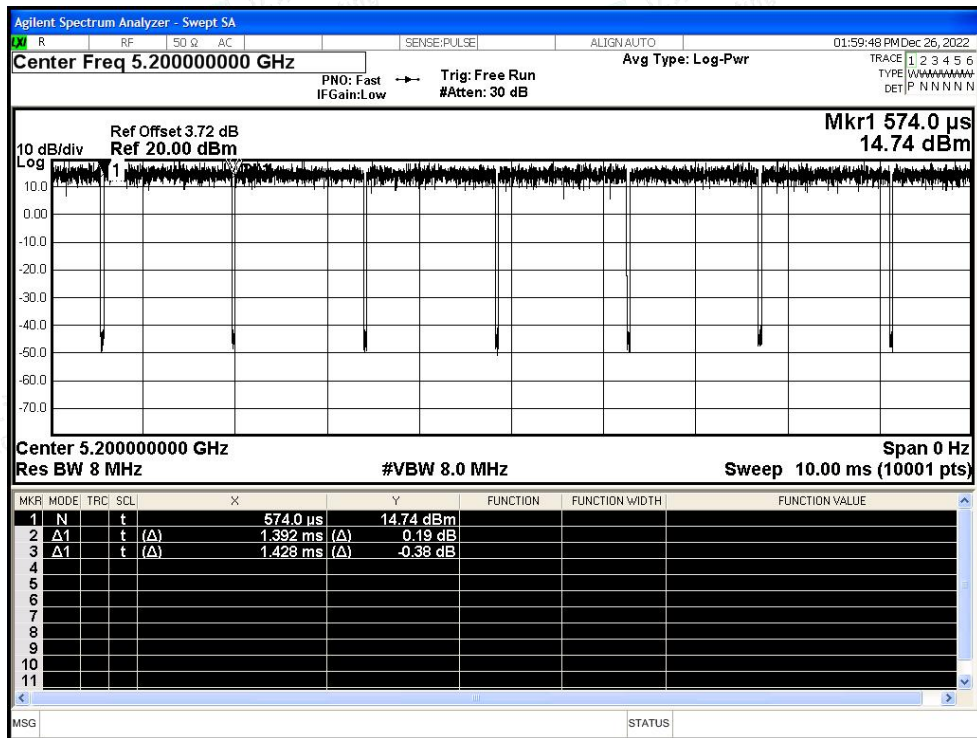


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

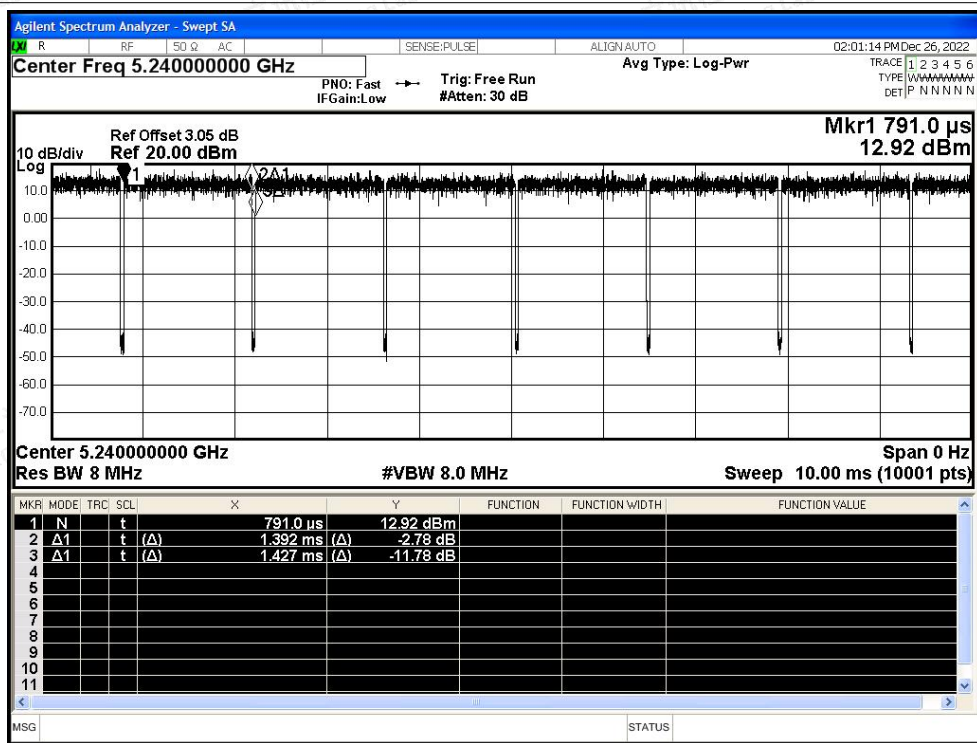


Duty Cycle NVNT a 5200MHz Ant1

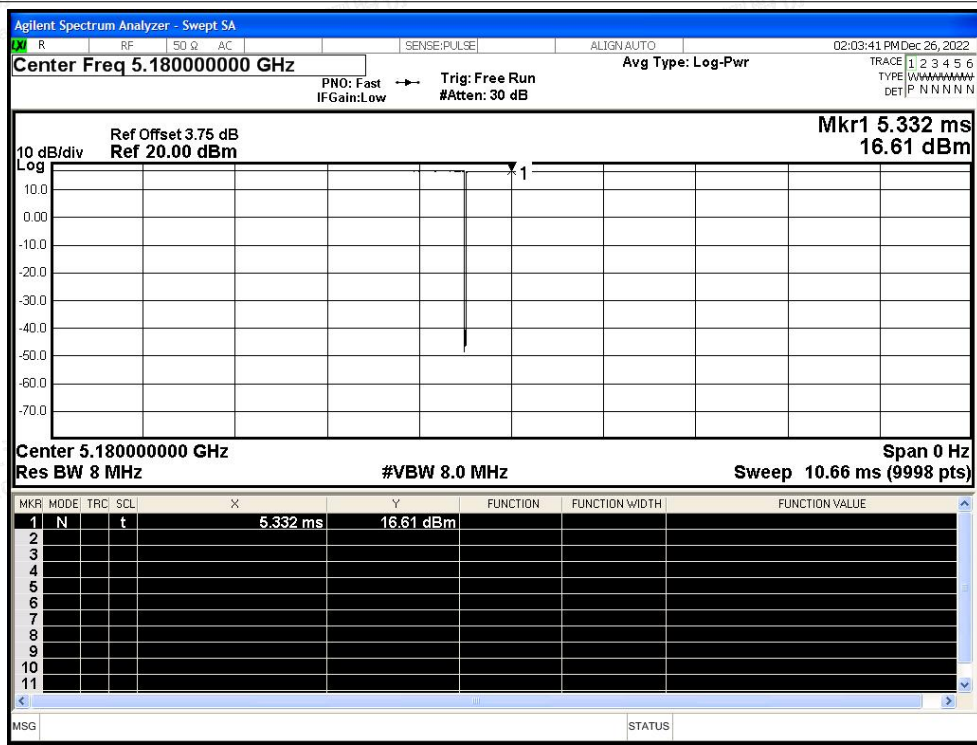




Duty Cycle NVNT a 5240MHz Ant1

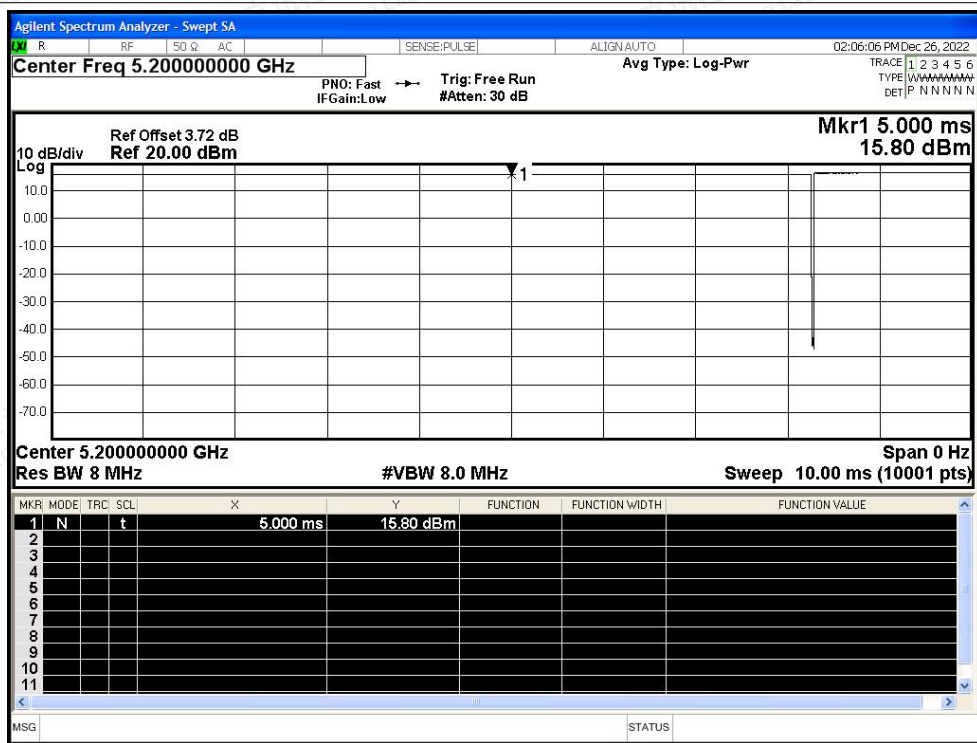


Duty Cycle NVNT ac20 5180MHz Ant1

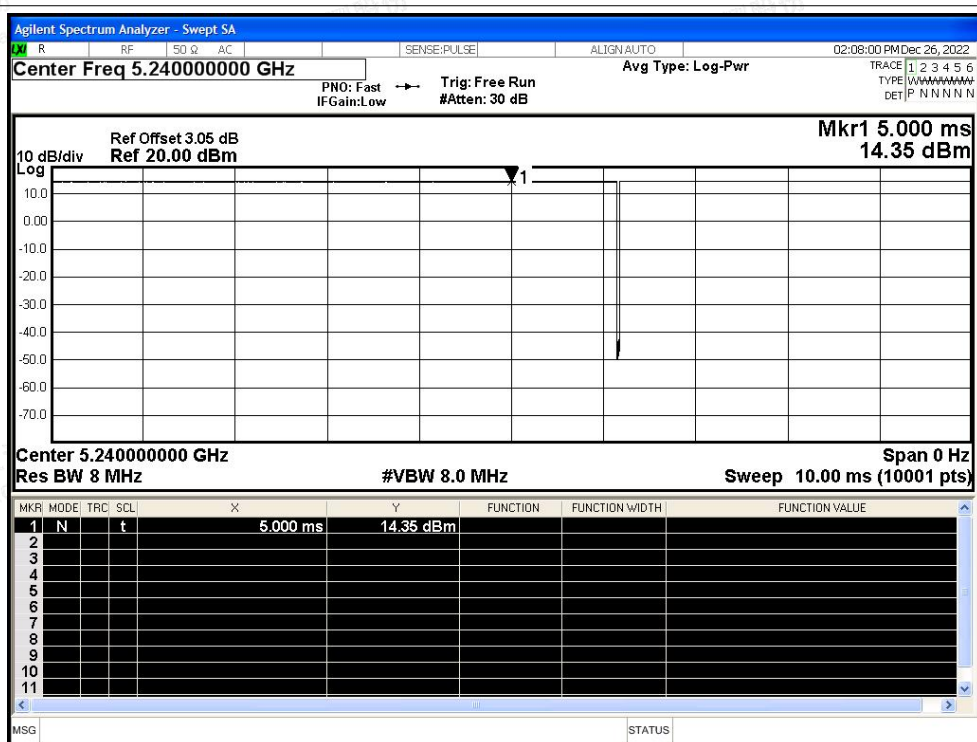




Duty Cycle NVNT ac20 5200MHz Ant1

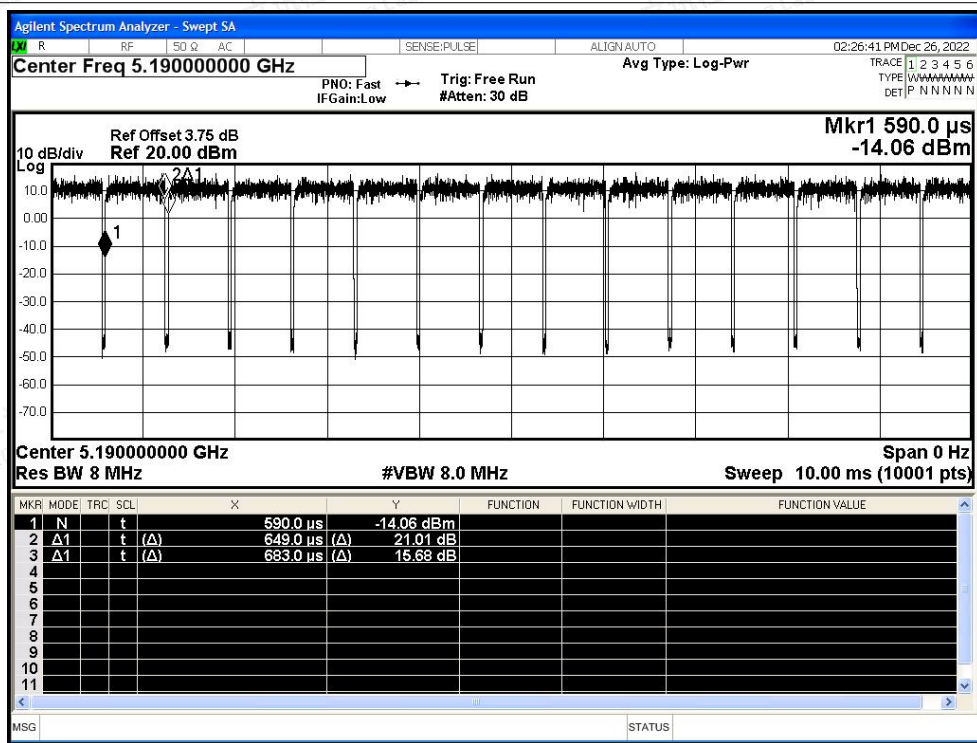


Duty Cycle NVNT ac20 5240MHz Ant1





Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1

