



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Prodigy Connect 12(Tablet PC)

Test Model: PGI-401

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Li Huan





D.1 -26dB Bandwidth

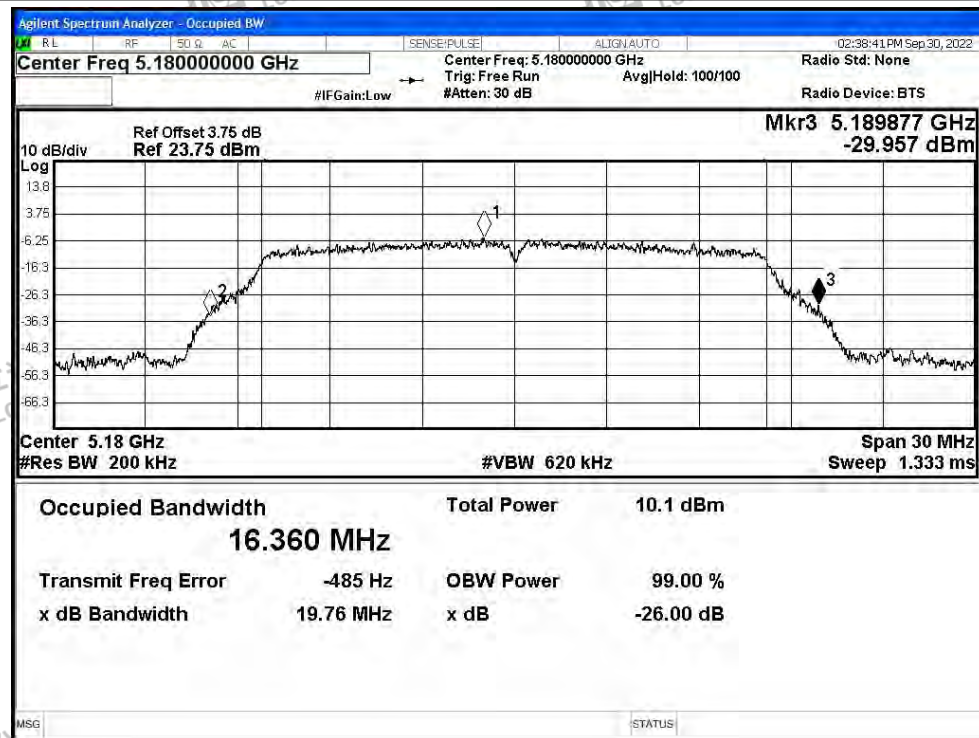
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.755	≥ 0.5	Pass
NVNT	a	5200	Ant1	19.646	≥ 0.5	Pass
NVNT	a	5240	Ant1	19.559	≥ 0.5	Pass
NVNT	n20	5180	Ant1	20.104	≥ 0.5	Pass
NVNT	n20	5200	Ant1	20.185	≥ 0.5	Pass
NVNT	n20	5240	Ant1	20.097	≥ 0.5	Pass
NVNT	n40	5190	Ant1	40.303	≥ 0.5	Pass
NVNT	n40	5230	Ant1	40.368	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	19.986	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	19.861	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	20.03	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	40.019	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	39.949	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	80.464	≥ 0.5	Pass



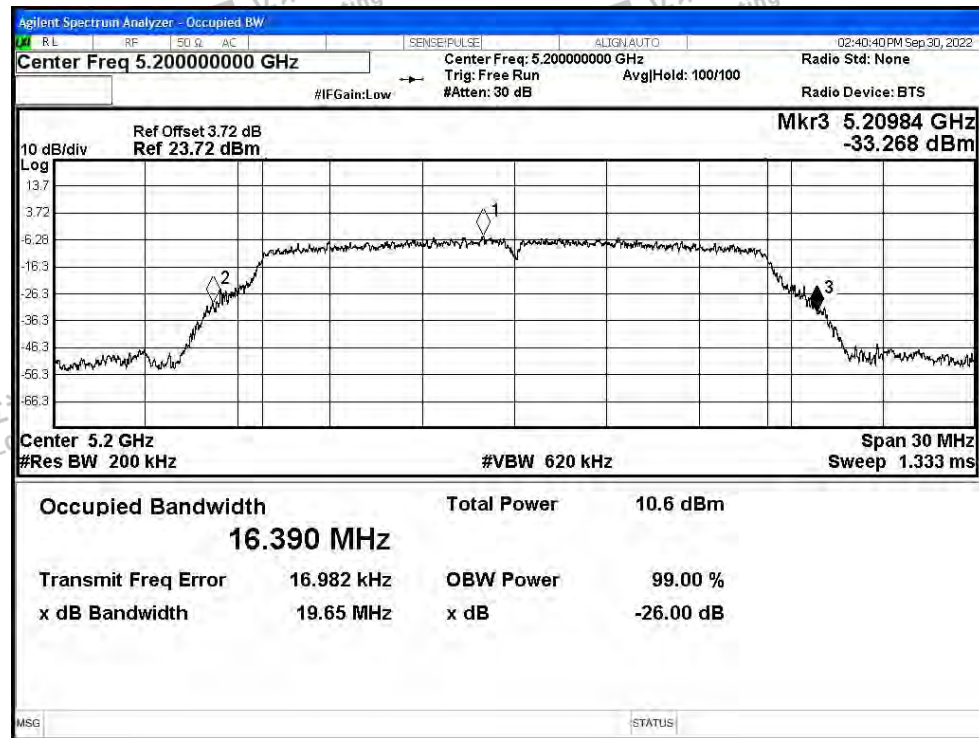


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

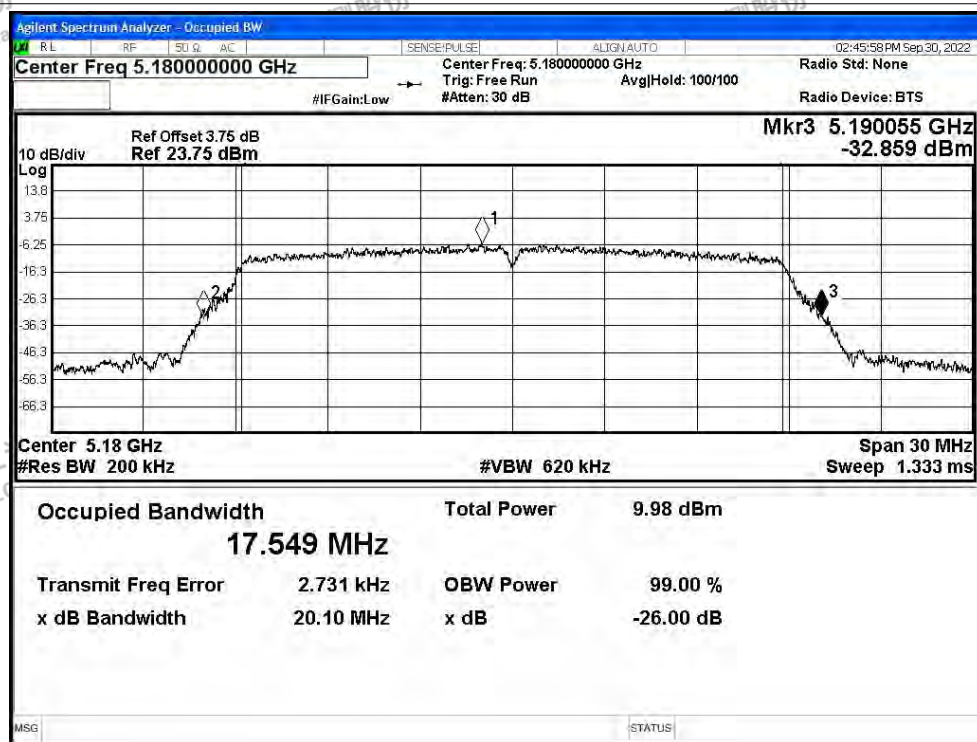




-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

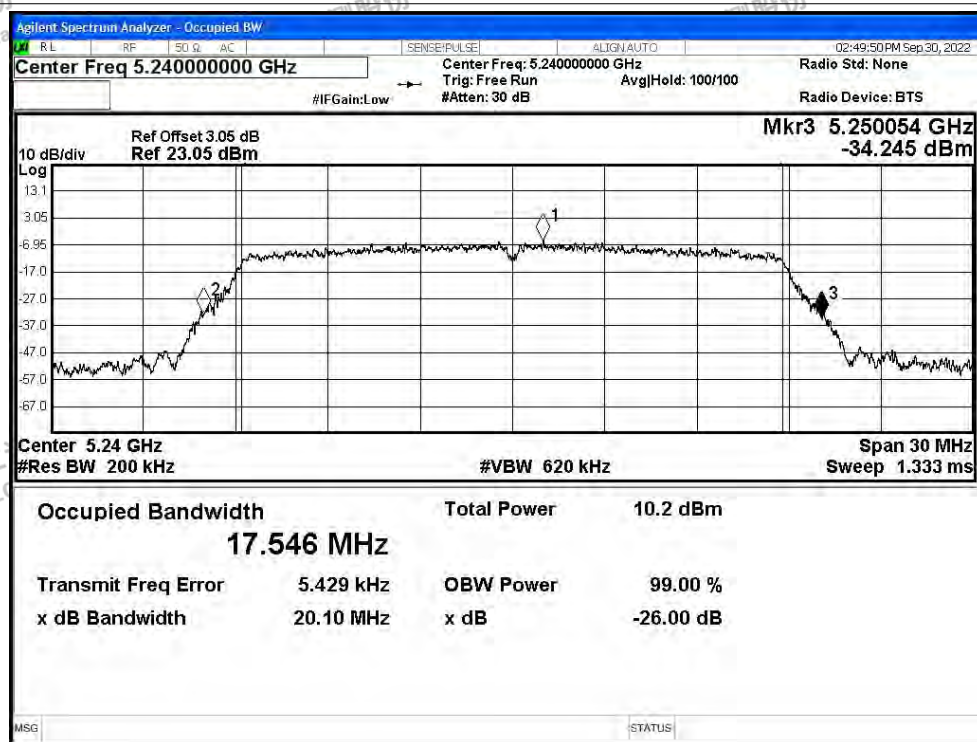




-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

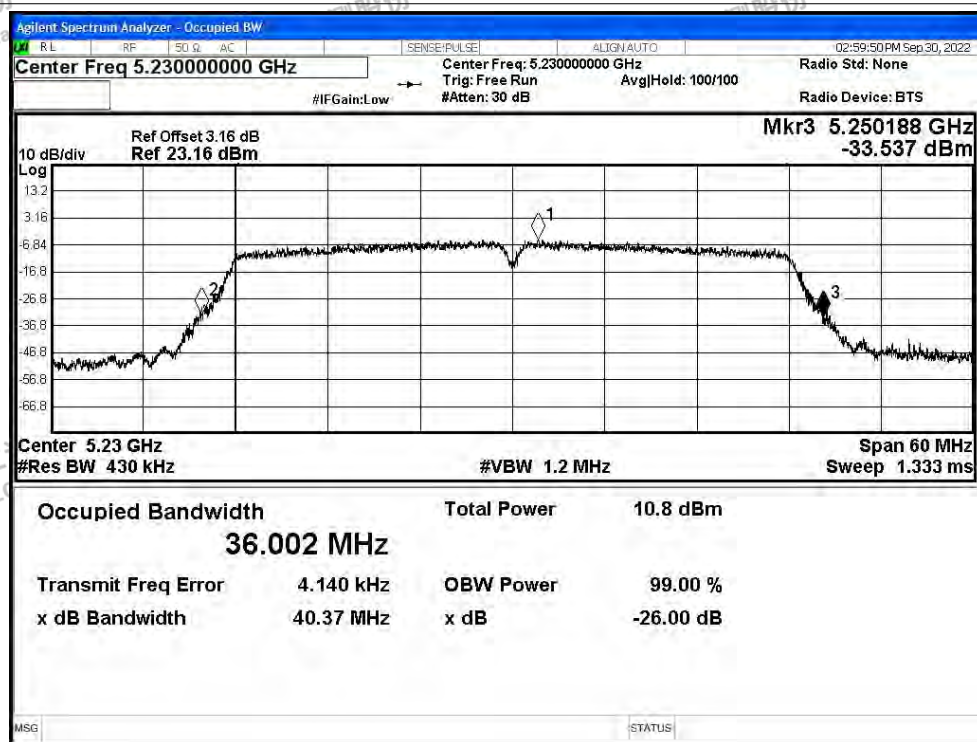




-26dB Bandwidth NVNT n40 5190MHz Ant1

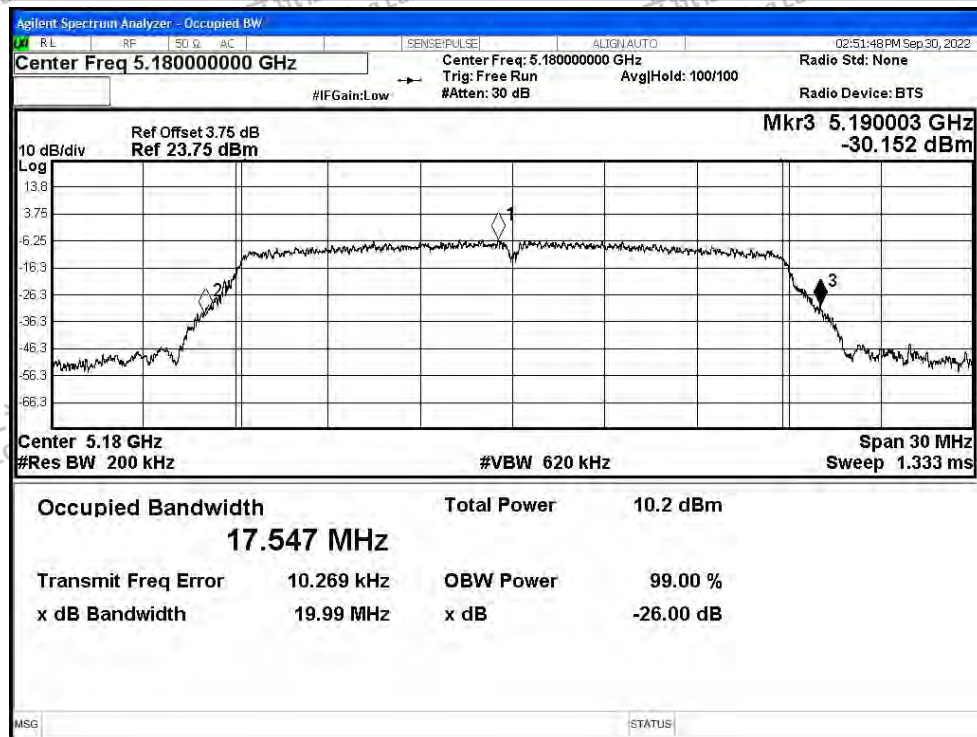


-26dB Bandwidth NVNT n40 5230MHz Ant1





-26dB Bandwidth NVNT ac20 5180MHz Ant1

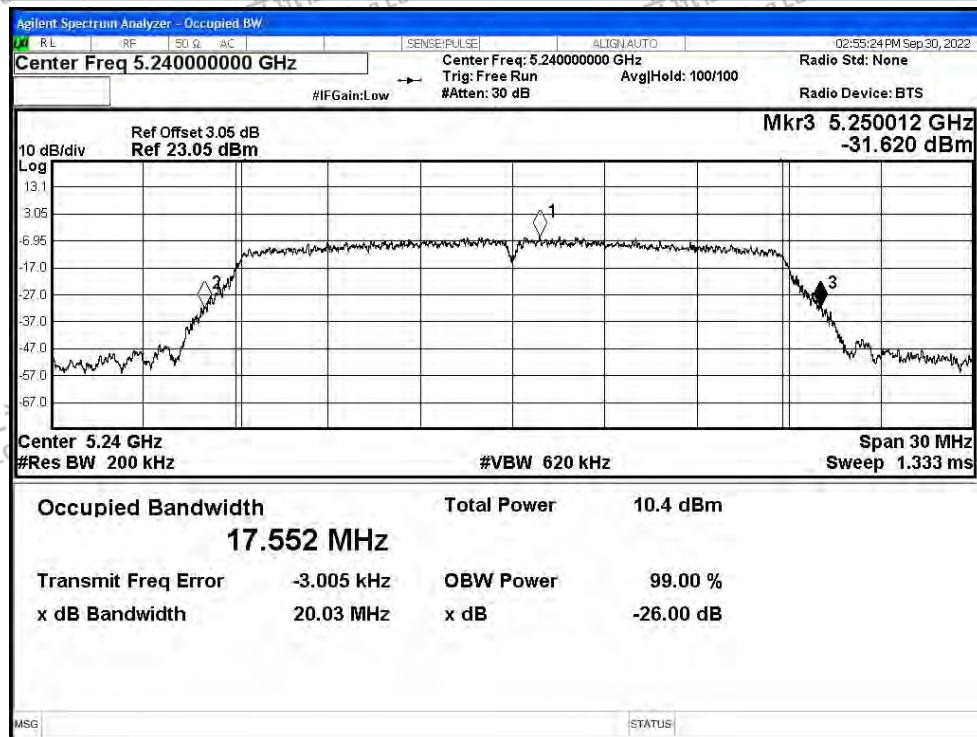


-26dB Bandwidth NVNT ac20 5200MHz Ant1

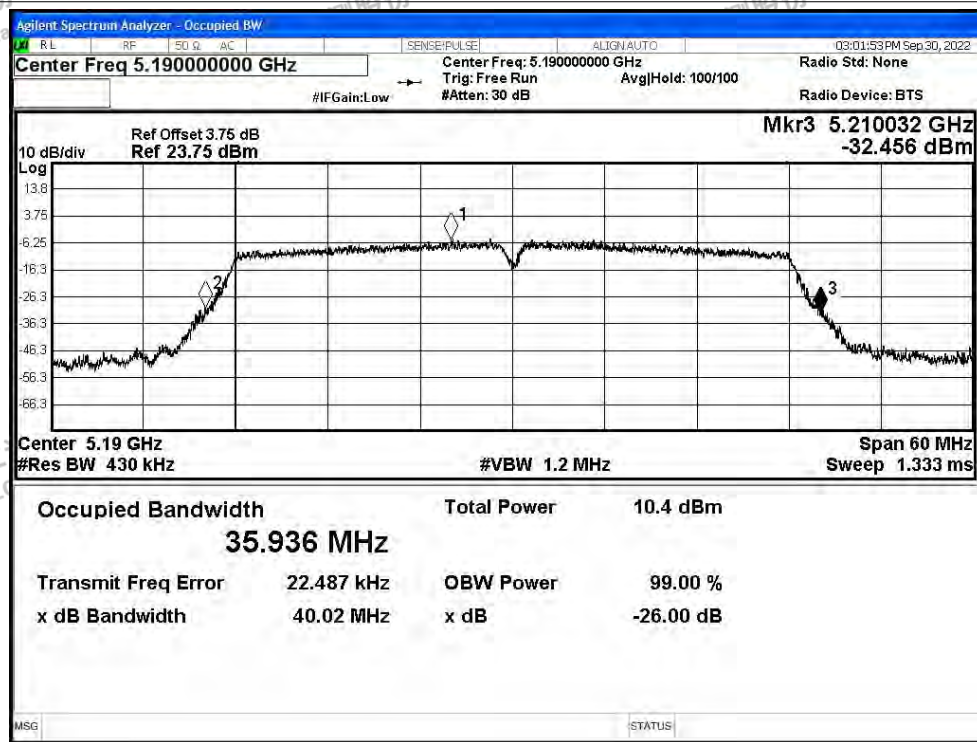




-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

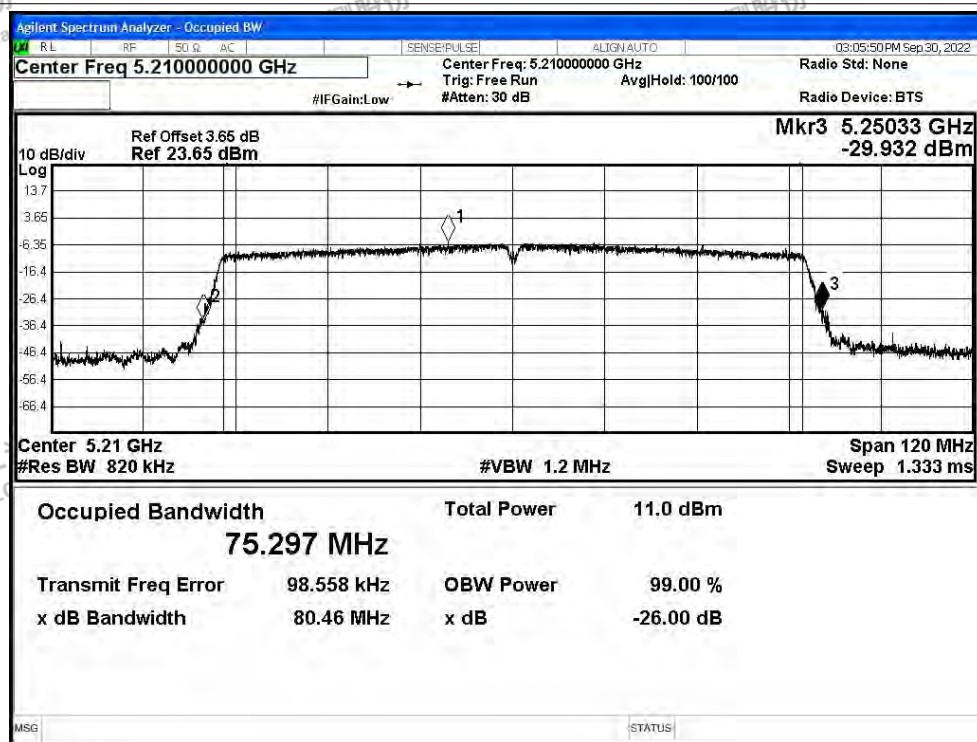




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





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	11.4	0	11.4	24	Pass
NVNT	a	5200	Ant1	12.1	0	12.1	24	Pass
NVNT	a	5240	Ant1	12.34	0	12.34	24	Pass
NVNT	n20	5180	Ant1	10.3	0	10.3	24	Pass
NVNT	n20	5200	Ant1	10.77	0	10.77	24	Pass
NVNT	n20	5240	Ant1	10.97	0	10.97	24	Pass
NVNT	n40	5190	Ant1	10.5	0	10.5	24	Pass
NVNT	n40	5230	Ant1	10.89	0	10.89	24	Pass
NVNT	ac20	5180	Ant1	10.34	0	10.34	24	Pass
NVNT	ac20	5200	Ant1	10.79	0	10.79	24	Pass
NVNT	ac20	5240	Ant1	11.27	0	11.27	24	Pass
NVNT	ac40	5190	Ant1	10.49	0	10.49	24	Pass
NVNT	ac40	5230	Ant1	10.88	0	10.88	24	Pass
NVNT	ac80	5210	Ant1	10.49	0	10.49	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	-0.21	0	-0.21	11	Pass
NVNT	a	5200	Ant1	0.53	0	0.53	11	Pass
NVNT	a	5240	Ant1	0.68	0	0.68	11	Pass
NVNT	n20	5180	Ant1	-1.42	0	-1.42	11	Pass
NVNT	n20	5200	Ant1	-0.82	0	-0.82	11	Pass
NVNT	n20	5240	Ant1	-0.83	0	-0.83	11	Pass
NVNT	n40	5190	Ant1	-4.14	0	-4.14	11	Pass
NVNT	n40	5230	Ant1	-3.78	0	-3.78	11	Pass
NVNT	ac20	5180	Ant1	-1.28	0	-1.28	11	Pass
NVNT	ac20	5200	Ant1	-0.96	0	-0.96	11	Pass
NVNT	ac20	5240	Ant1	-0.49	0	-0.49	11	Pass
NVNT	ac40	5190	Ant1	-4.45	0	-4.45	11	Pass
NVNT	ac40	5230	Ant1	-3.63	0	-3.63	11	Pass
NVNT	ac80	5210	Ant1	-6.94	0	-6.94	11	Pass

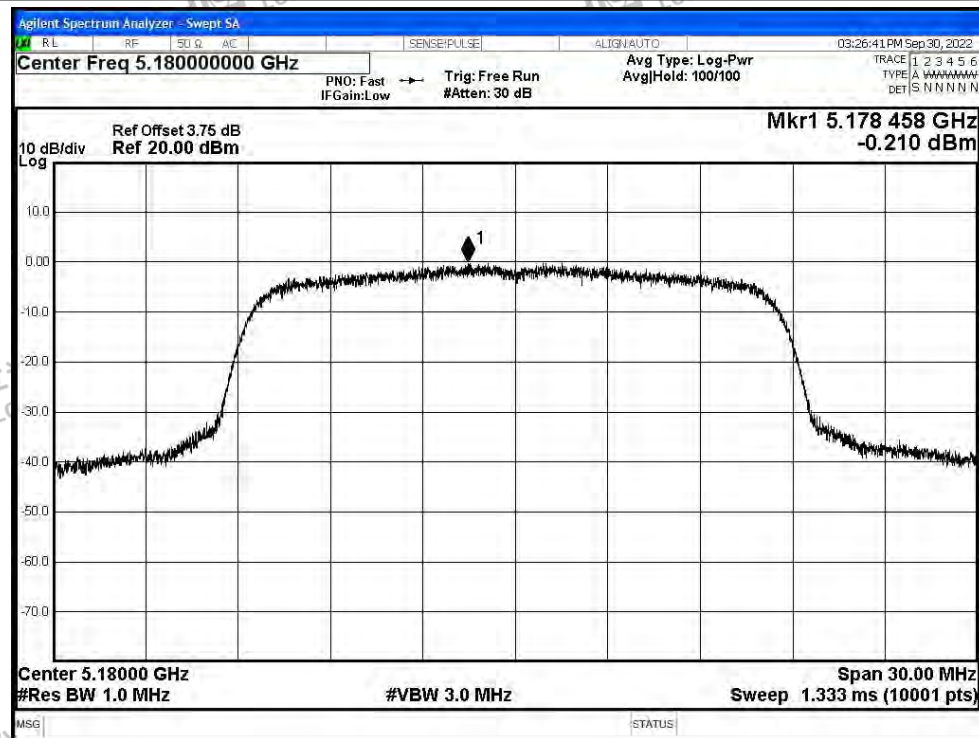


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Scan code to check authenticity

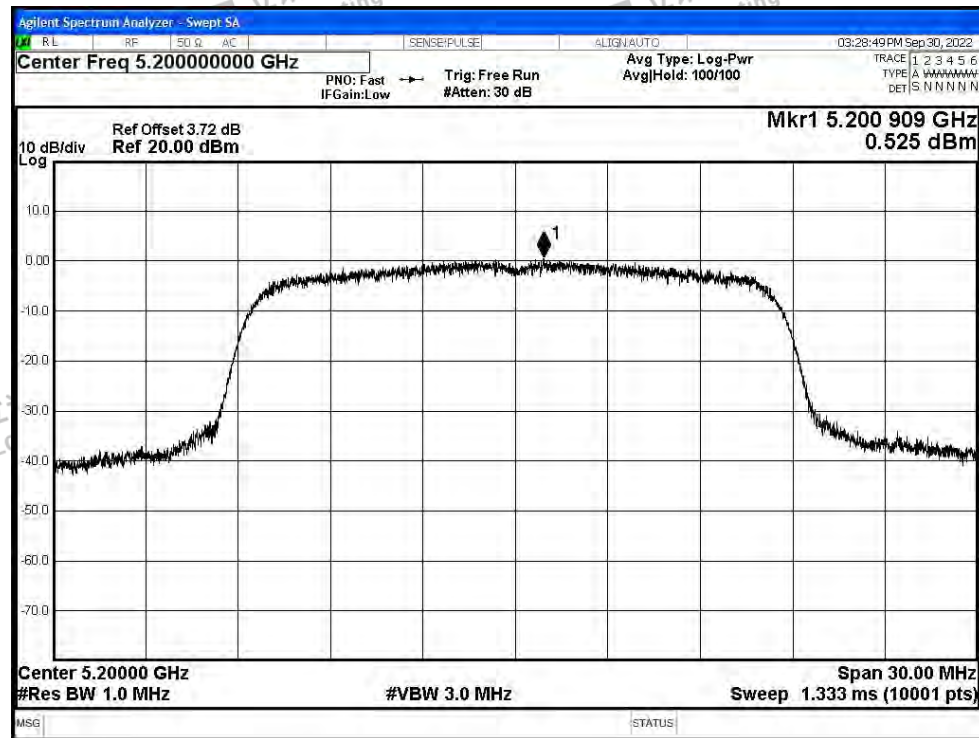


Test Graphs

PSD NVNT a 5180MHz Ant1

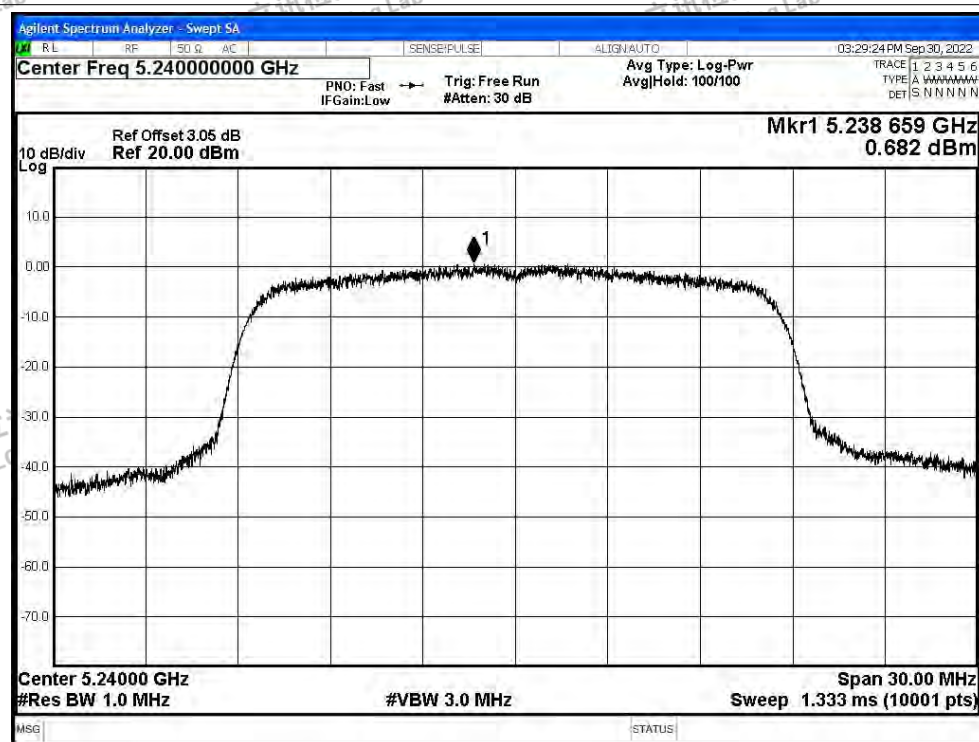


PSD NVNT a 5200MHz Ant1

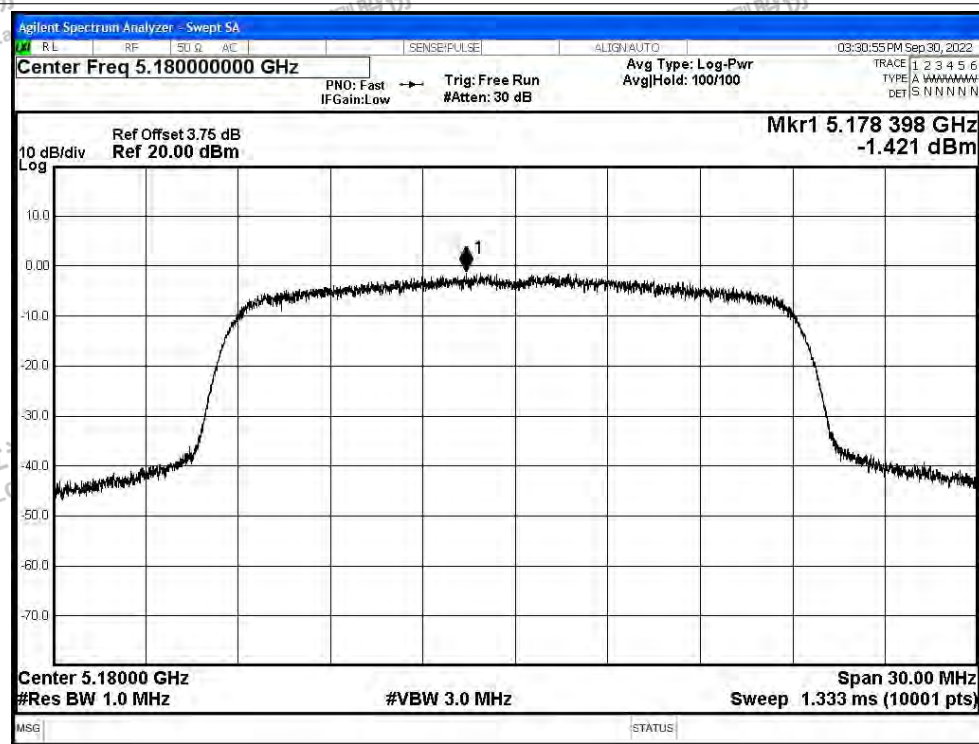




PSD NVNT a 5240MHz Ant1

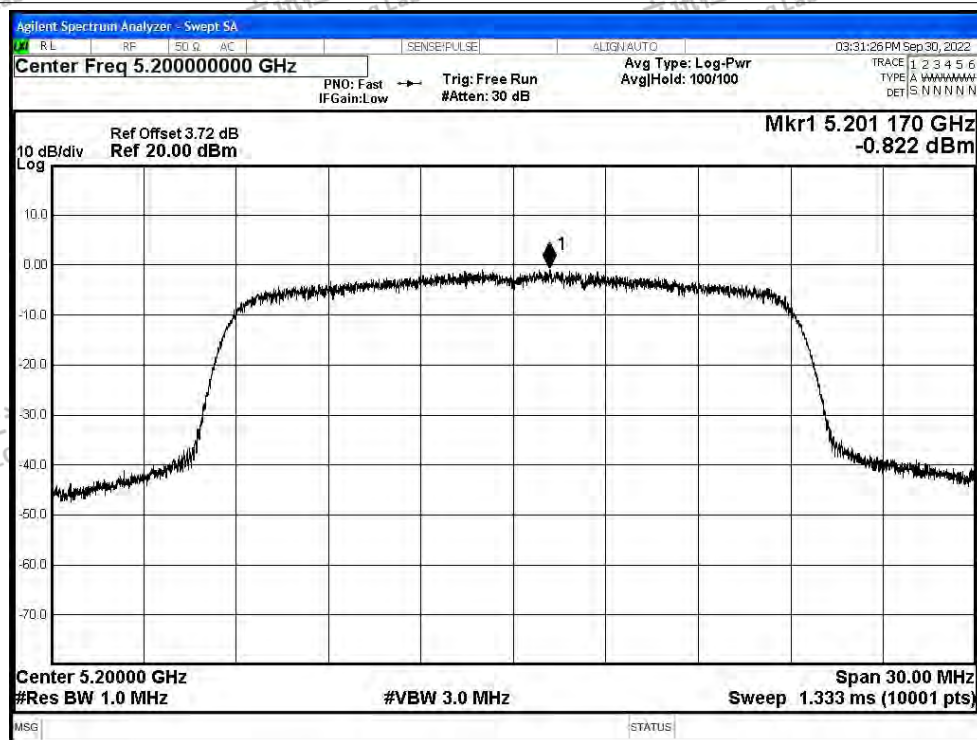


PSD NVNT n20 5180MHz Ant1

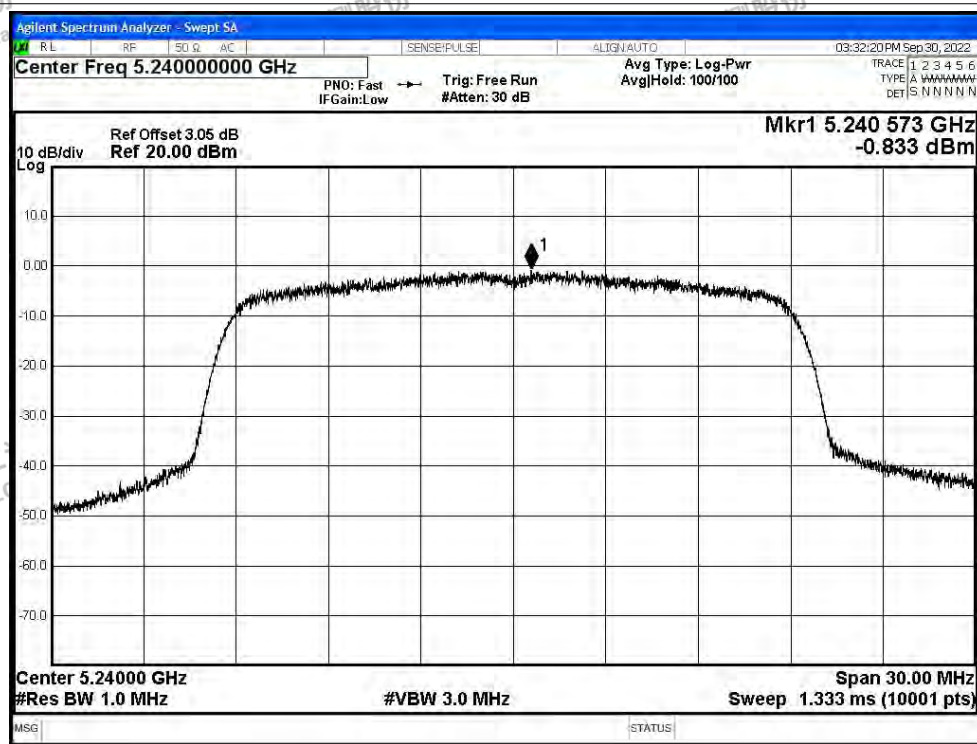




PSD NVNT n20 5200MHz Ant1

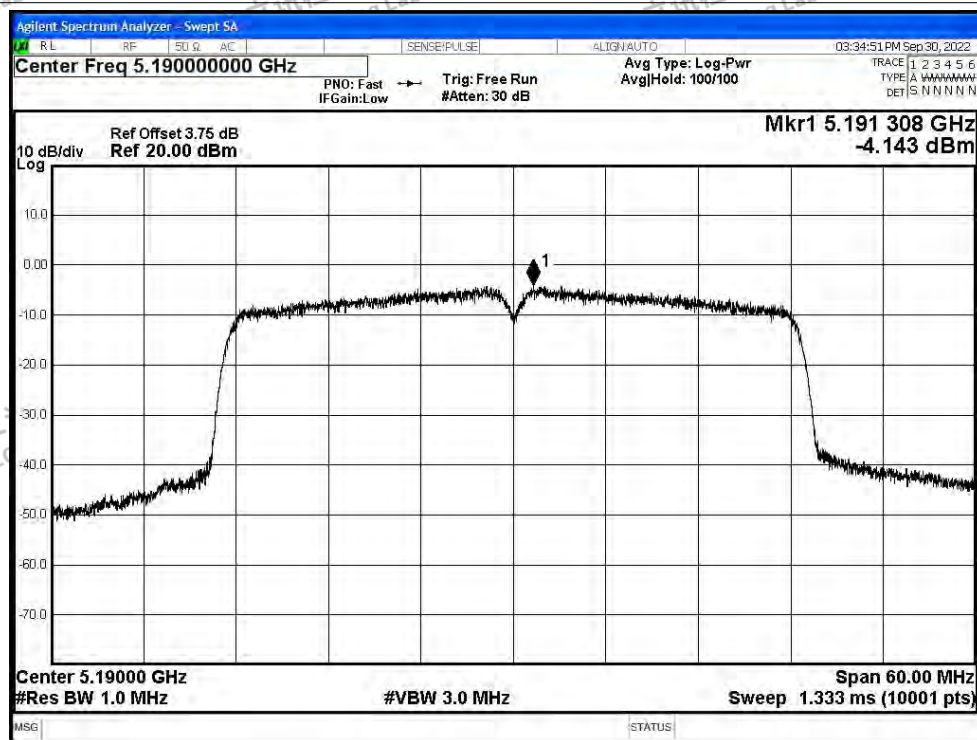


PSD NVNT n20 5240MHz Ant1

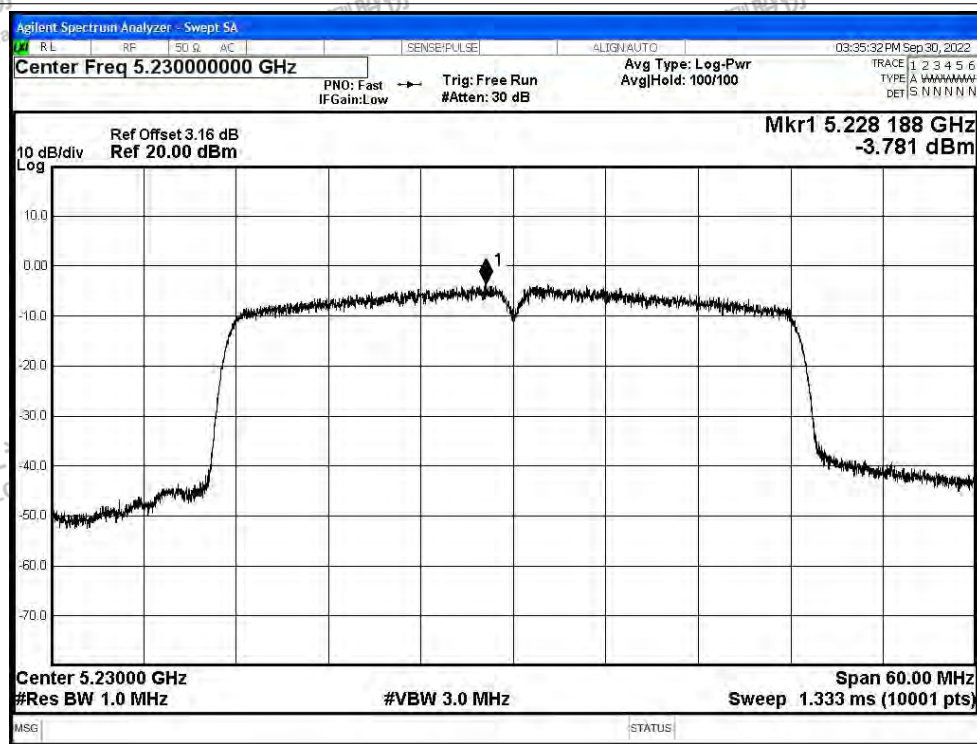




PSD NVNT n40 5190MHz Ant1

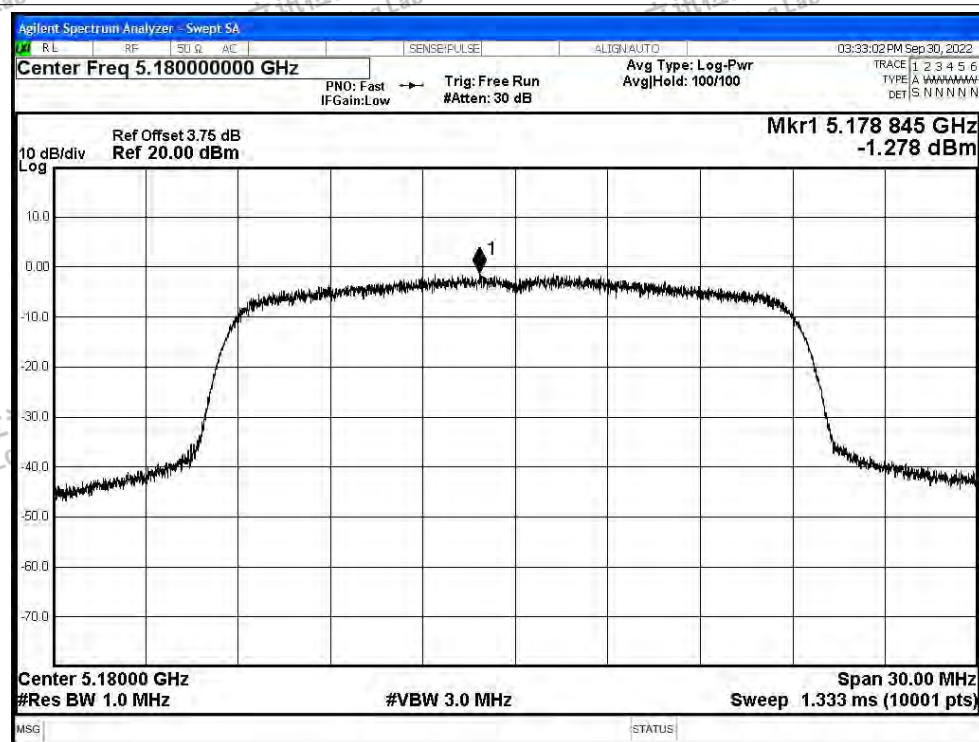


PSD NVNT n40 5230MHz Ant1

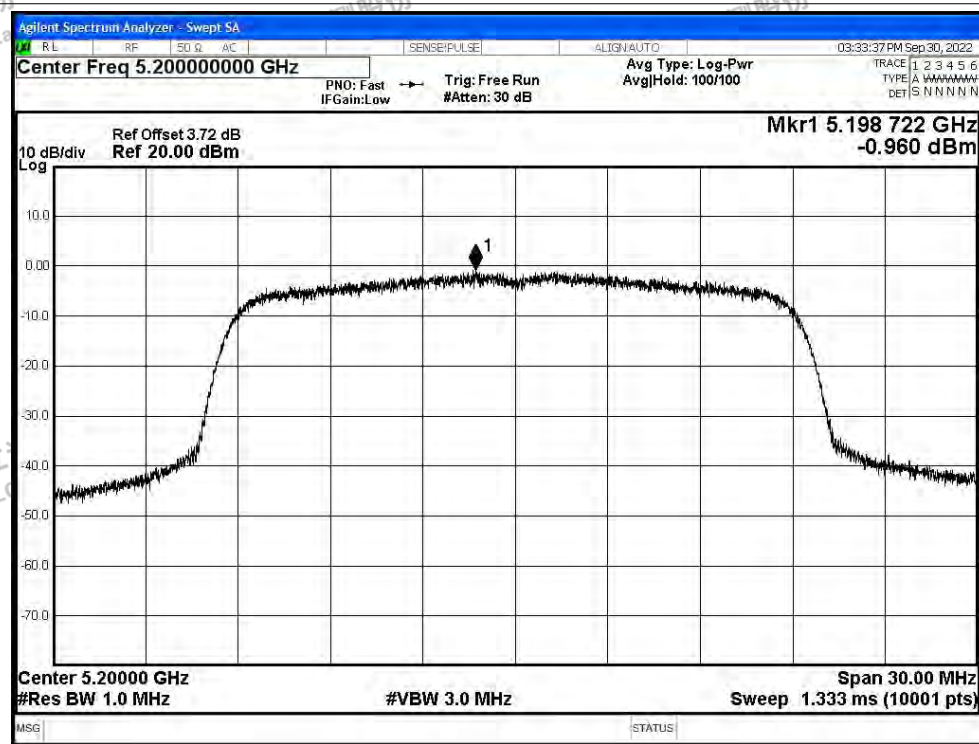




PSD NVNT ac20 5180MHz Ant1

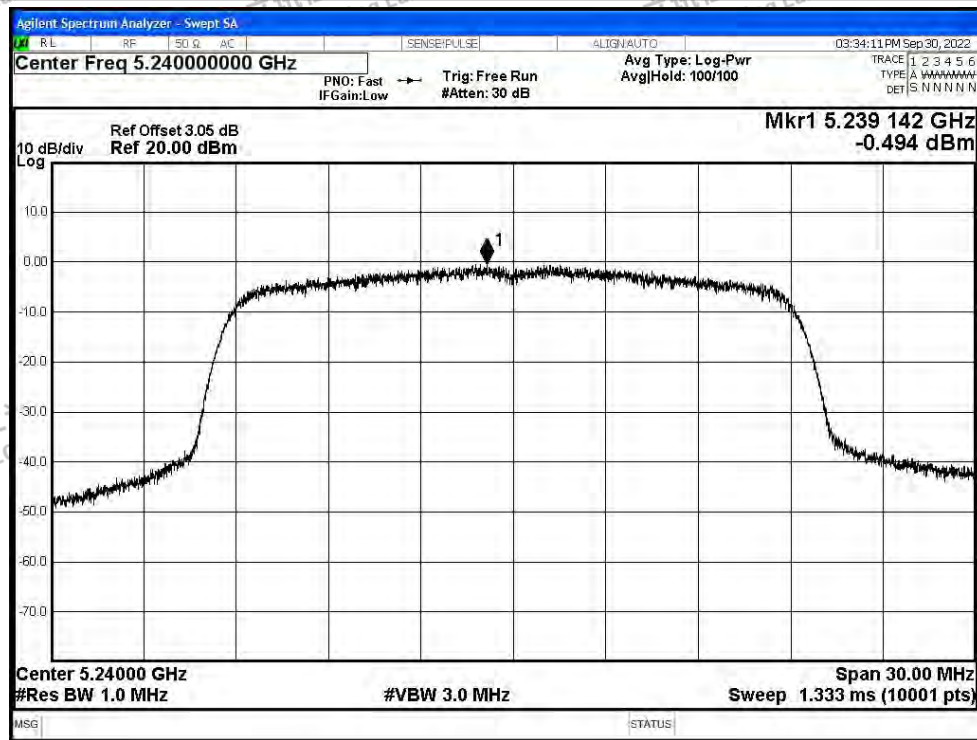


PSD NVNT ac20 5200MHz Ant1

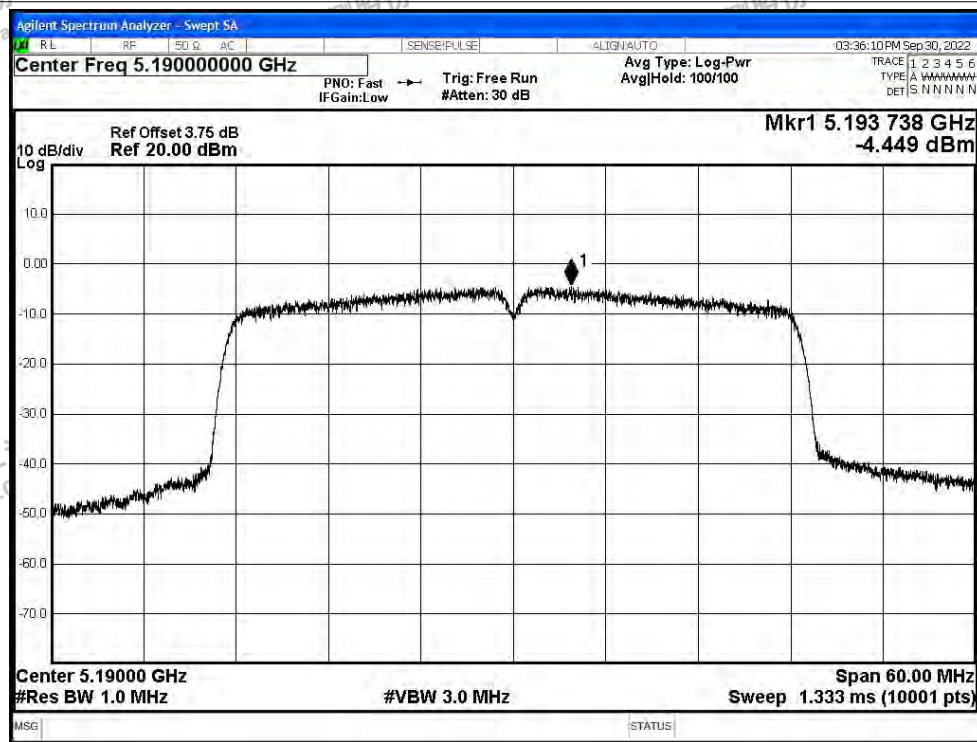




PSD NVNT ac20 5240MHz Ant1

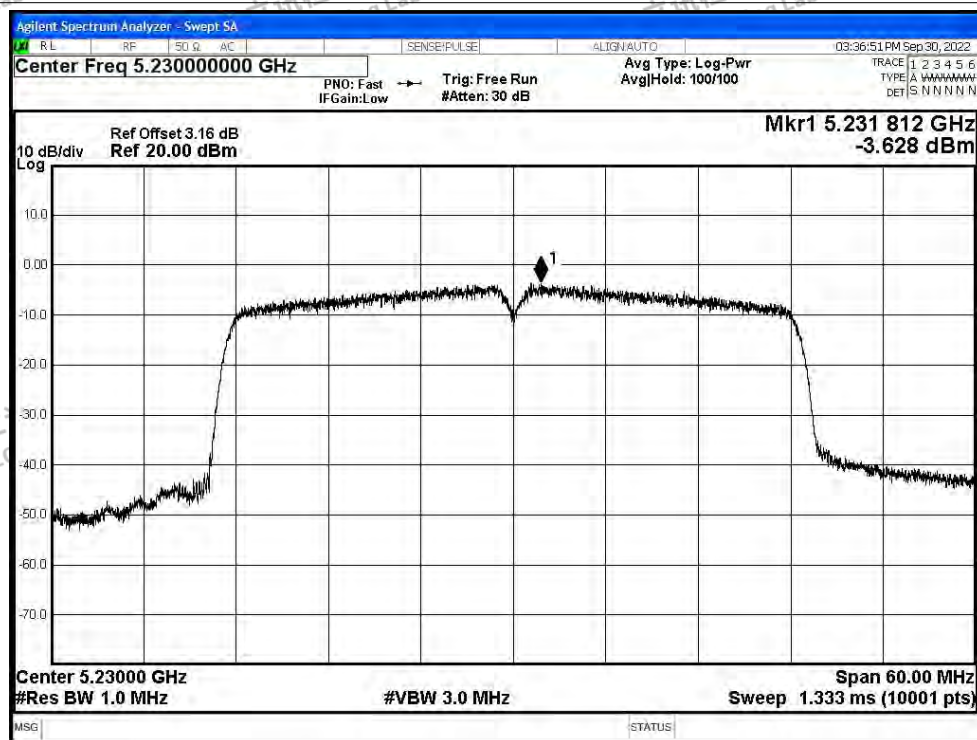


PSD NVNT ac40 5190MHz Ant1

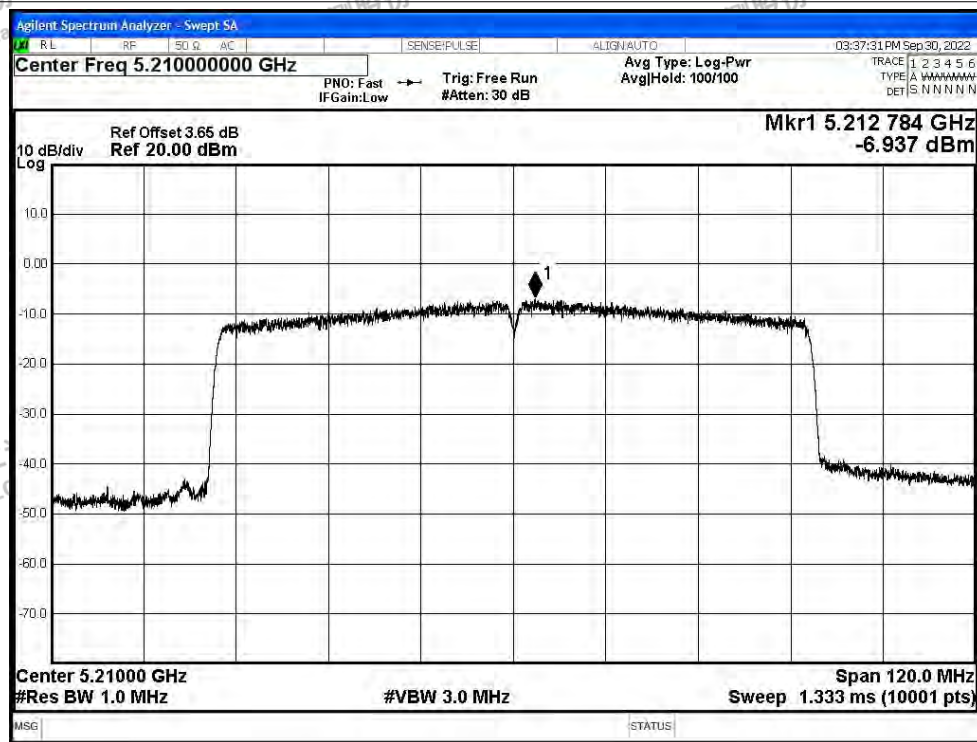




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz 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	-50.24	2.59	47.58	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.56	2.59	38.26	Average	54	Pass
NVNT	a	5180	Ant1	4948.7	-45.25	2.59	52.57	Peak	68.2	Pass
NVNT	a	5180	Ant1	5146.8	-56.33	2.59	41.49	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.7	2.59	50.12	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-56.38	2.59	41.44	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.91	2.59	49.91	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.98	2.59	39.84	Average	54	Pass
NVNT	a	5240	Ant1	5459.28	-45.69	2.59	52.13	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.32	-57.86	2.59	39.96	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.06	2.59	47.76	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-59.06	2.59	38.76	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.55	2.59	48.27	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.62	2.59	38.20	Average	54	Pass
NVNT	n20	5180	Ant1	5029.9	-44.8	2.59	53.02	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.2	-56.32	2.59	41.50	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.82	2.59	50.00	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-56.42	2.59	41.40	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-47.84	2.59	49.98	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.99	2.59	39.83	Average	54	Pass
NVNT	n20	5240	Ant1	5376.48	-46.29	2.59	51.53	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5352	-57.88	2.59	39.94	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.62	2.59	48.20	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-59.3	2.59	38.52	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.29	2.59	48.53	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.21	2.59	38.61	Average	54	Pass
NVNT	n40	5190	Ant1	5129.26	-44.37	2.59	53.45	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-56.04	2.59	41.78	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-47.36	2.59	50.46	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-56.04	2.59	41.78	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-47.54	2.59	50.28	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.86	2.59	39.96	Average	54	Pass
NVNT	n40	5230	Ant1	5355.78	-45.88	2.59	51.94	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5367.66	-57.42	2.59	40.40	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.06	2.59	47.76	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.77	2.59	39.05	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-50.13	2.59	47.69	Peak	68.2	Pass



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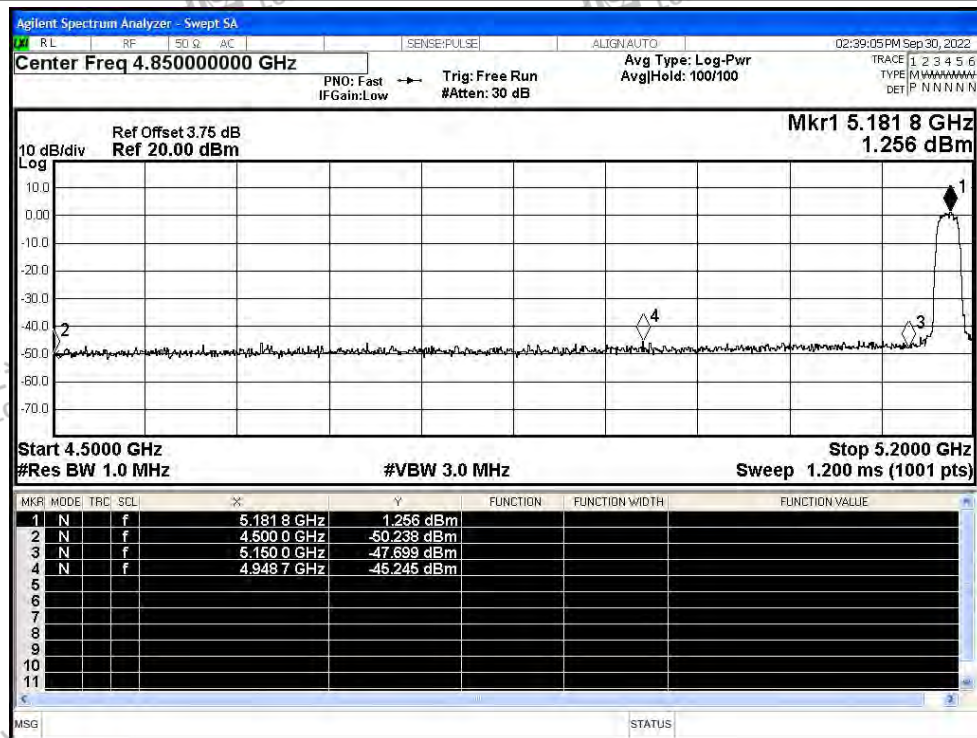
NVNT	ac20	5180	Ant1	4500	-59.34	2.59	38.48	Average	54	Pass
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NVNT	ac20	5180	Ant1	5147.5	-56.01	2.59	41.81	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-46.91	2.59	50.91	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-56.25	2.59	41.57	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-47.94	2.59	49.88	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.88	2.59	39.94	Average	54	Pass
NVNT	ac20	5240	Ant1	5395.44	-46.24	2.59	51.58	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350.32	-57.59	2.59	40.23	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-48.9	2.59	48.92	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.99	2.59	38.83	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.33	2.59	47.49	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.98	2.59	38.84	Average	54	Pass
NVNT	ac40	5190	Ant1	5147.51	-44.9	2.59	52.92	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5145.32	-55.55	2.59	42.27	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-45.68	2.59	52.14	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-56.2	2.59	41.62	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-46.91	2.59	50.91	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.45	2.59	40.37	Average	54	Pass
NVNT	ac40	5230	Ant1	5376.84	-45.91	2.59	51.91	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5357.13	-57.25	2.59	40.57	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.88	2.59	47.94	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.63	2.59	39.19	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-46.24	2.59	51.58	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.88	2.59	40.94	Average	54	Pass
NVNT	ac80	5210	Ant1	5374.2	-45.74	2.59	52.08	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5352.09	-56.11	2.59	41.71	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.93	2.59	47.89	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-57.92	2.59	39.90	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.77	2.59	48.05	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-59.05	2.59	38.77	Average	54	Pass
NVNT	ac80	5210	Ant1	5135.16	-44.54	2.59	53.28	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-54.21	2.59	43.61	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-46.24	2.59	51.58	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-54.58	2.59	43.24	Average	54	Pass



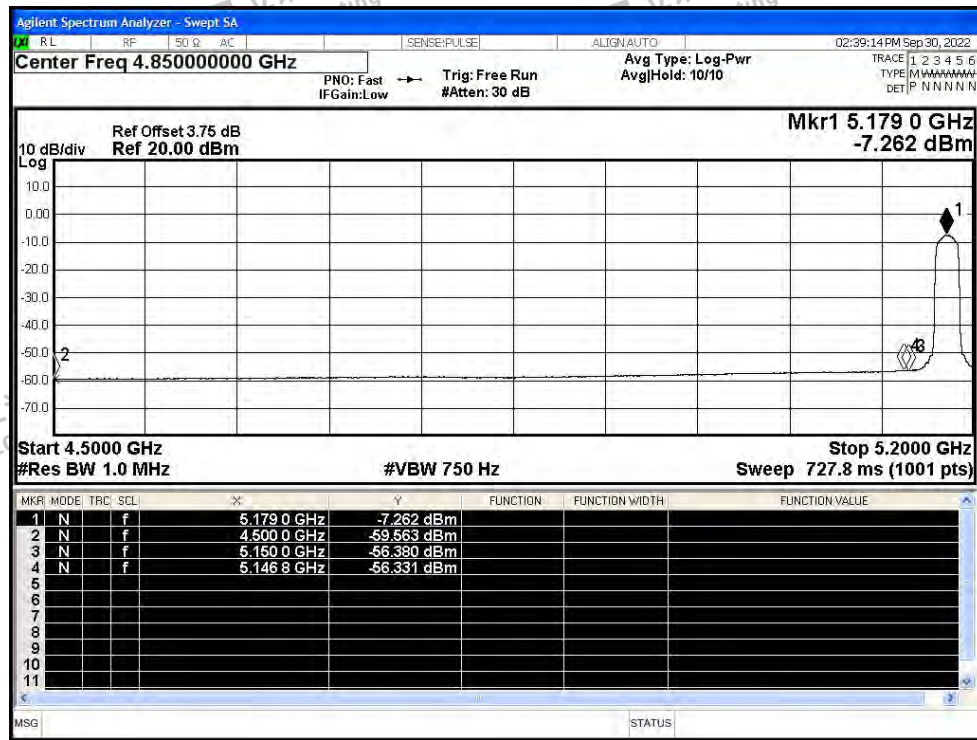


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

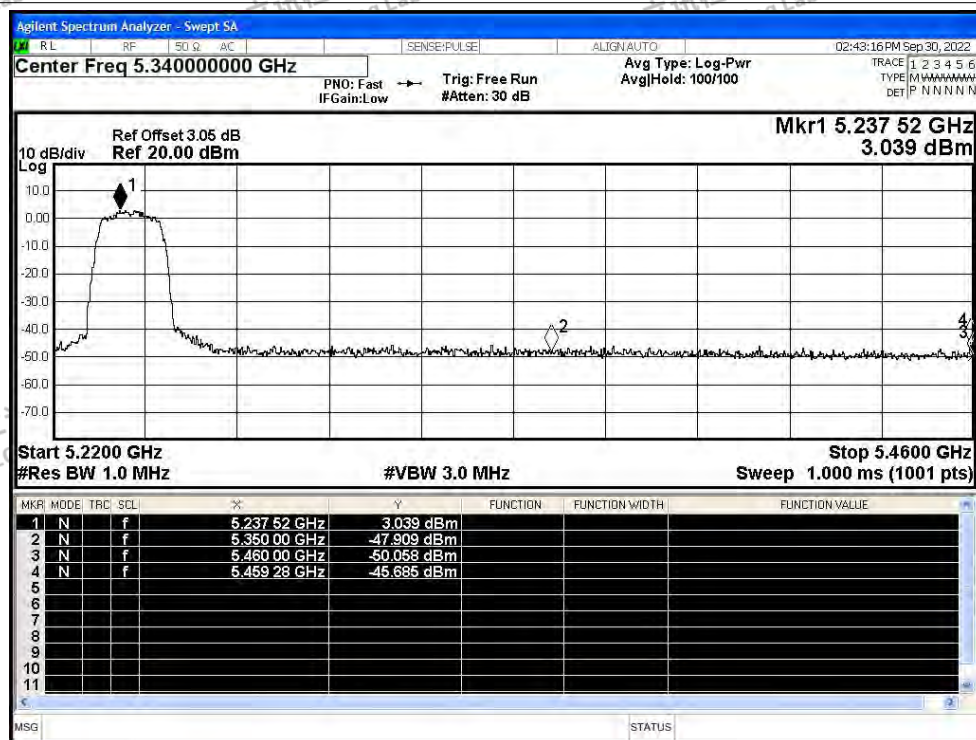


Restrict Band NVNT a 5180MHz Ant1 Average

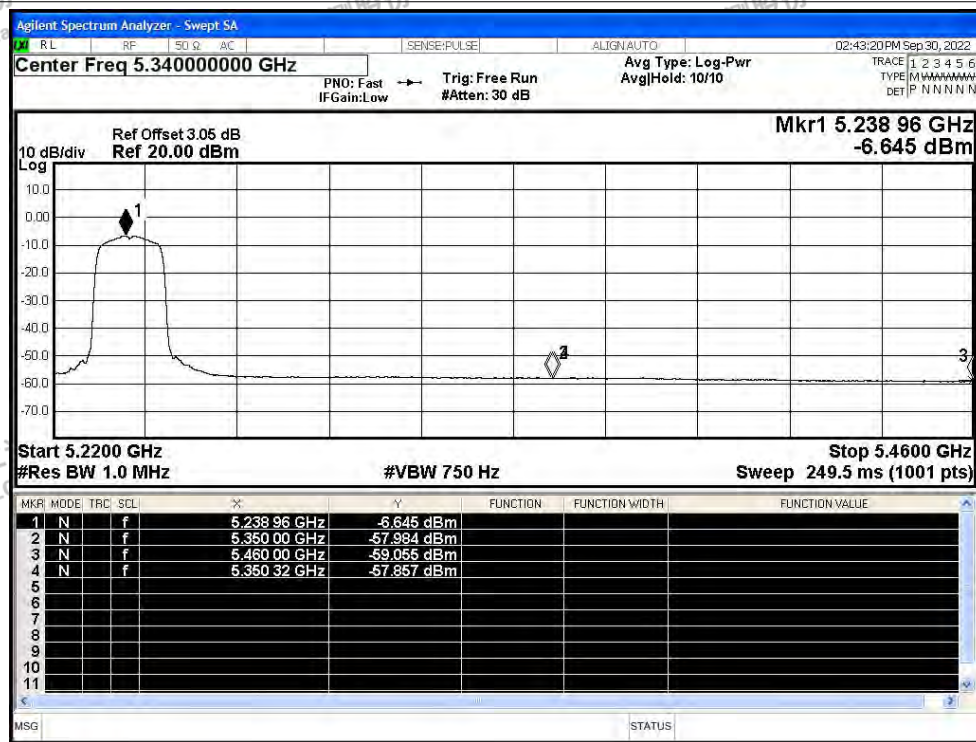




Restrict Band NVNT a 5240MHz Ant1 Peak

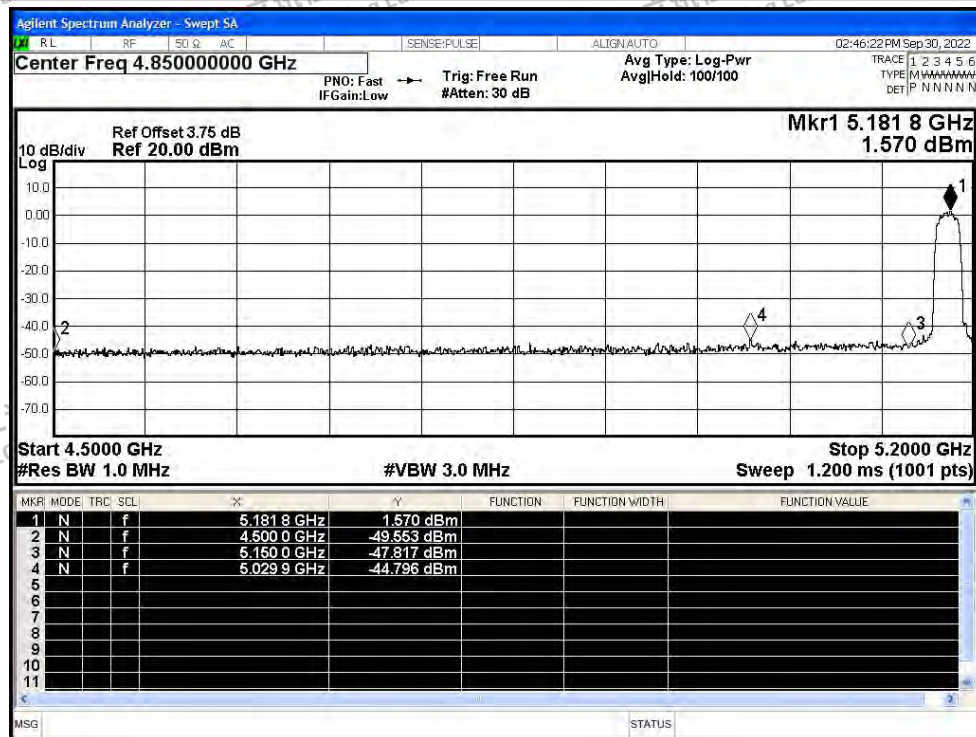


Restrict Band NVNT a 5240MHz Ant1 Average

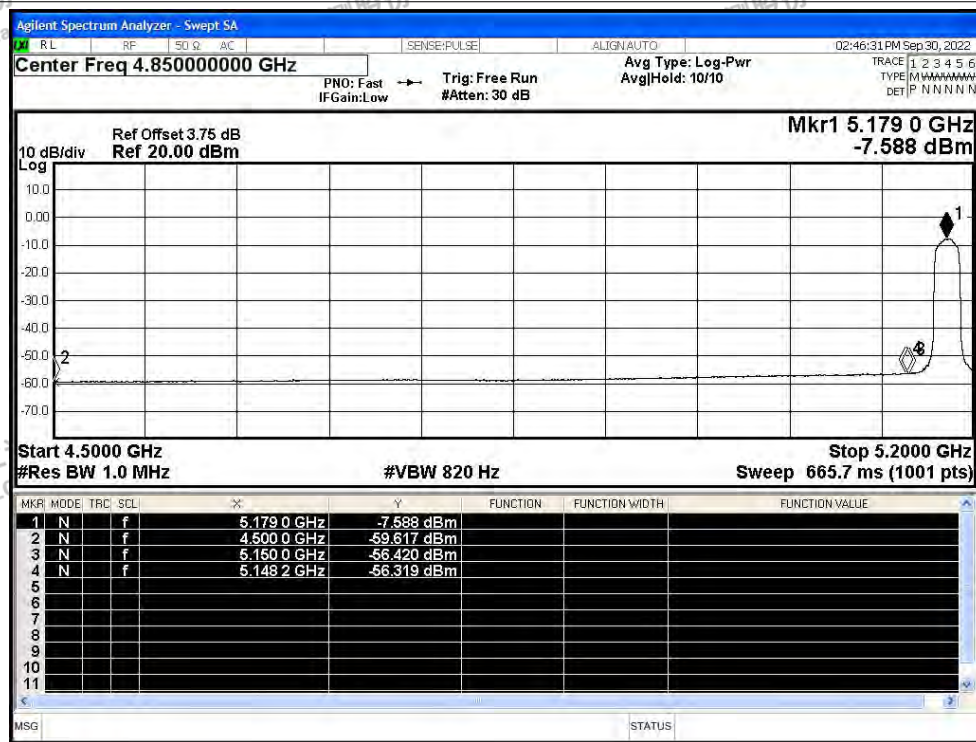




Restrict Band NVNT n20 5180MHz Ant1 Peak

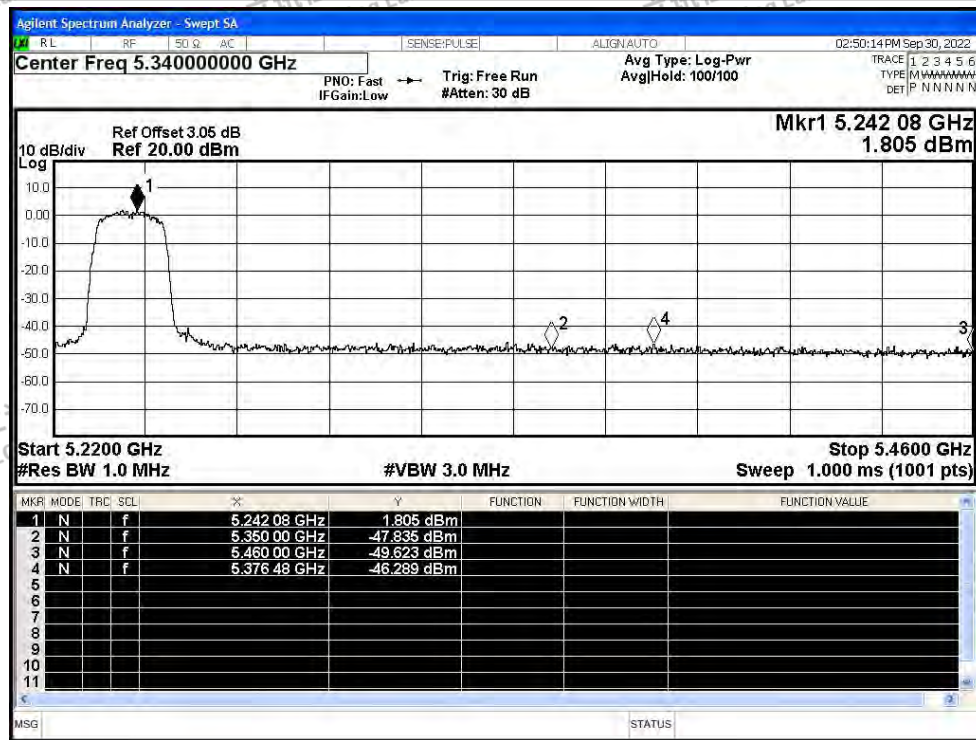


Restrict Band NVNT n20 5180MHz Ant1 Average

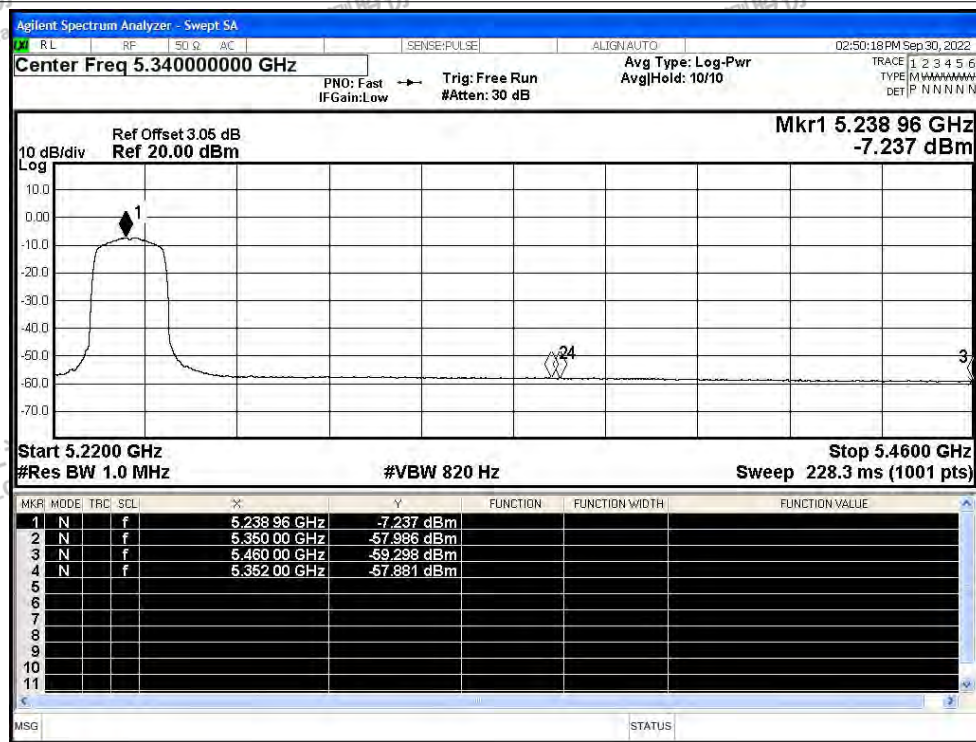




Restrict Band NVNT n20 5240MHz Ant1 Peak

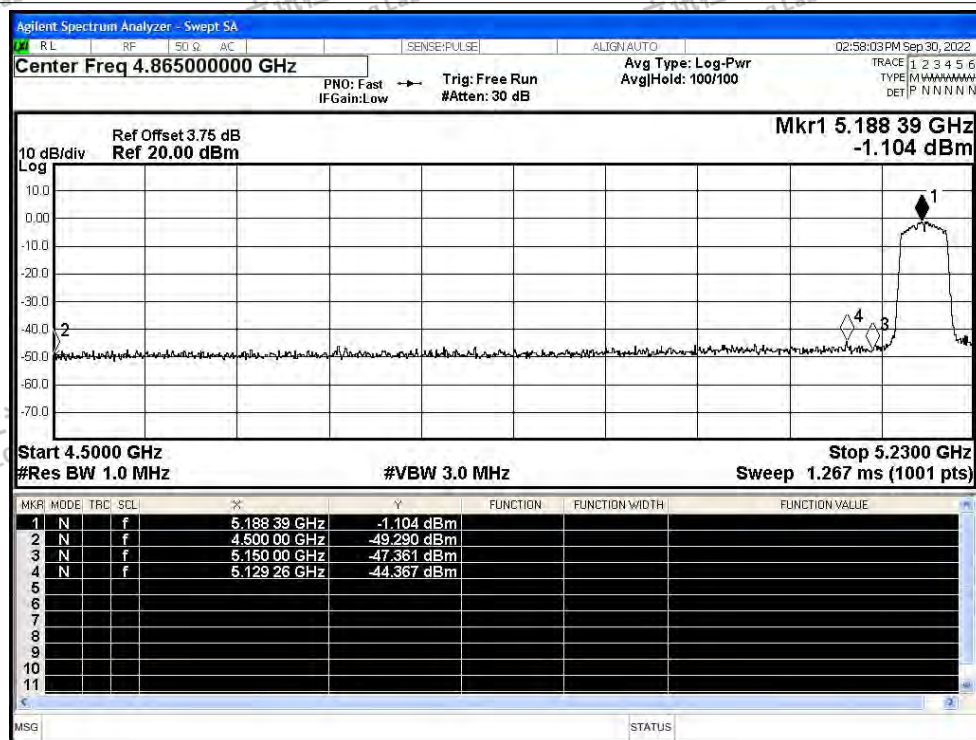


Restrict Band NVNT n20 5240MHz Ant1 Average

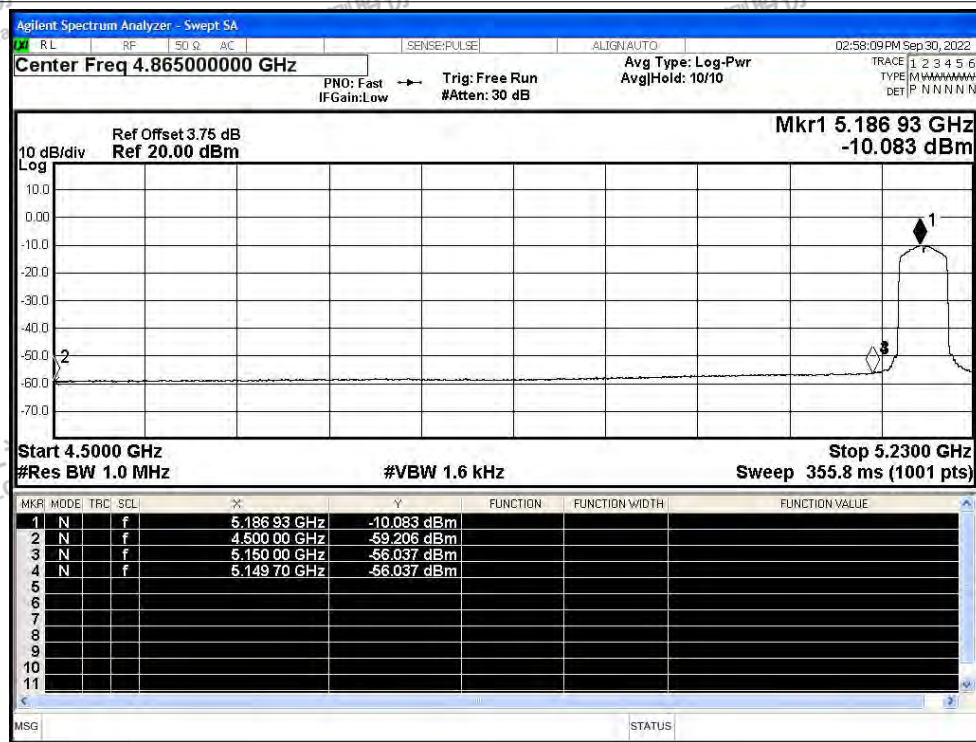




Restrict Band NVNT n40 5190MHz Ant1 Peak

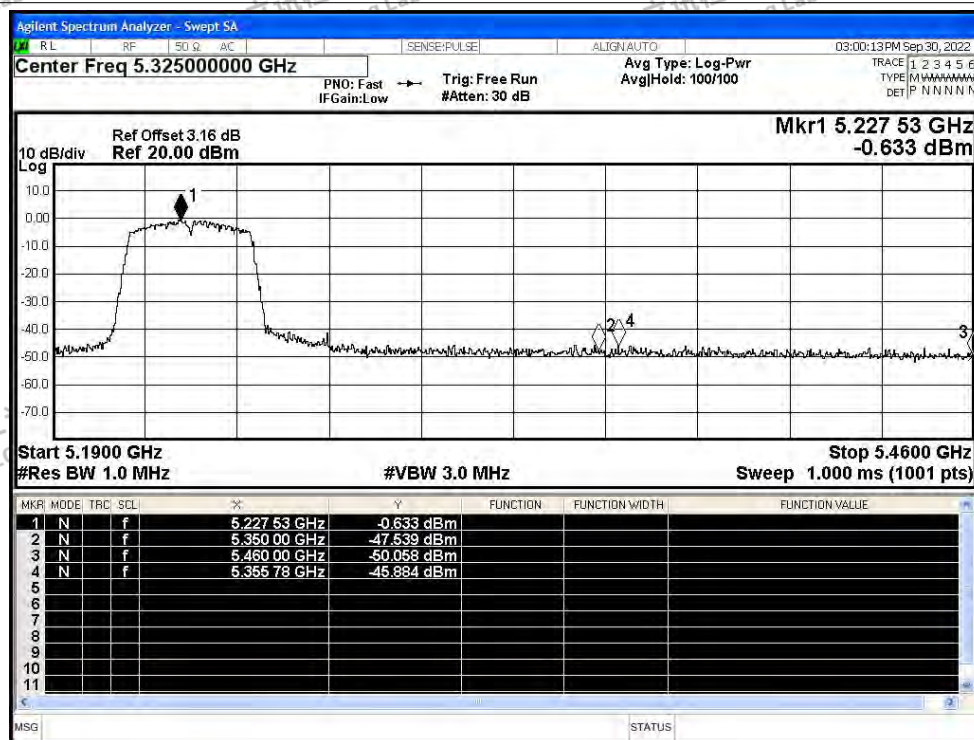


Restrict Band NVNT n40 5190MHz Ant1 Average

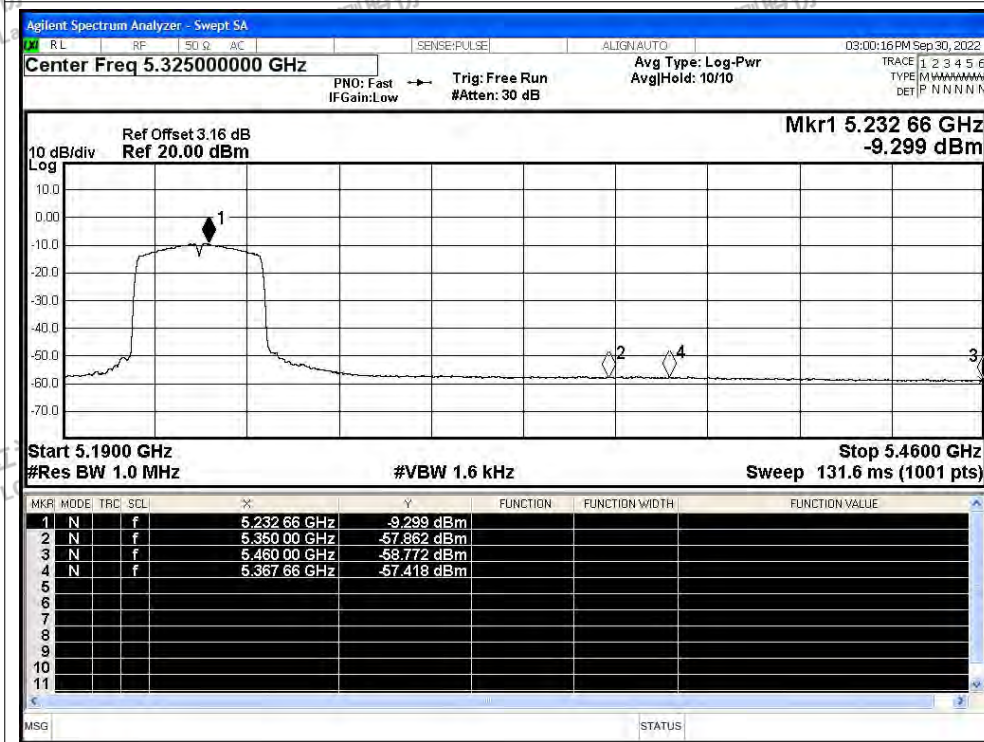




Restrict Band NVNT n40 5230MHz Ant1 Peak

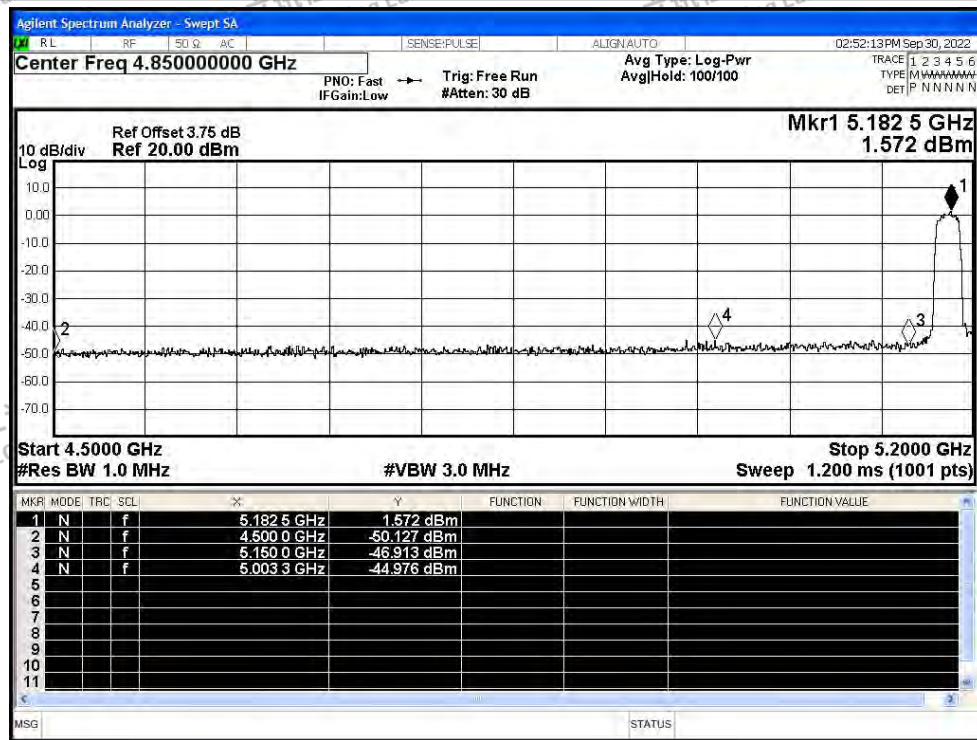


Restrict Band NVNT n40 5230MHz Ant1 Average

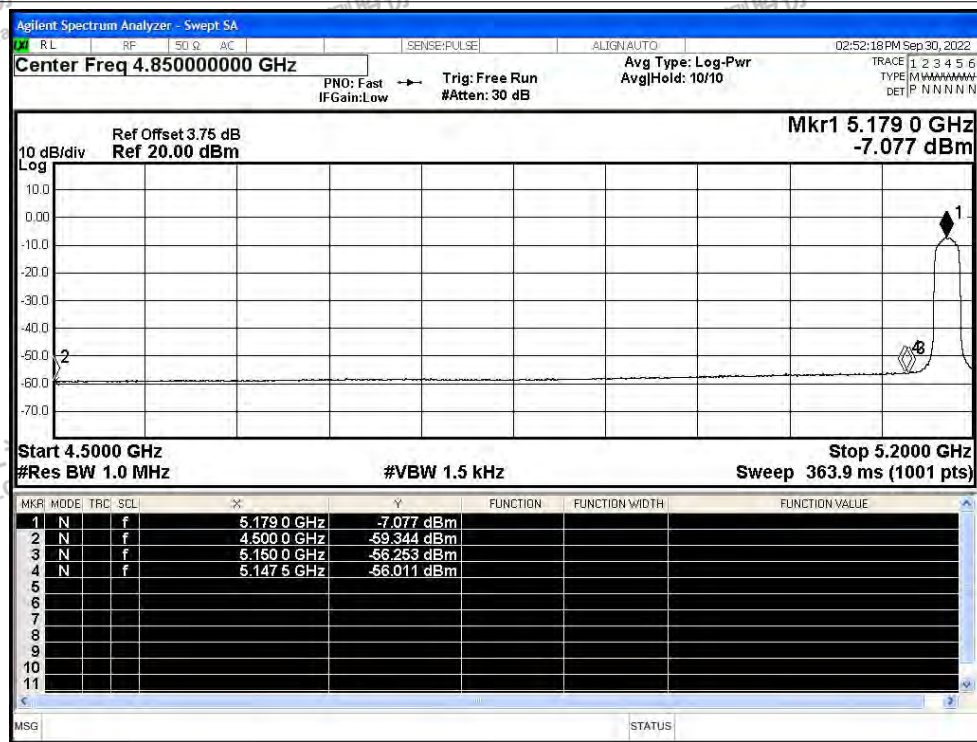




Restrict Band NVNT ac20 5180MHz Ant1 Peak

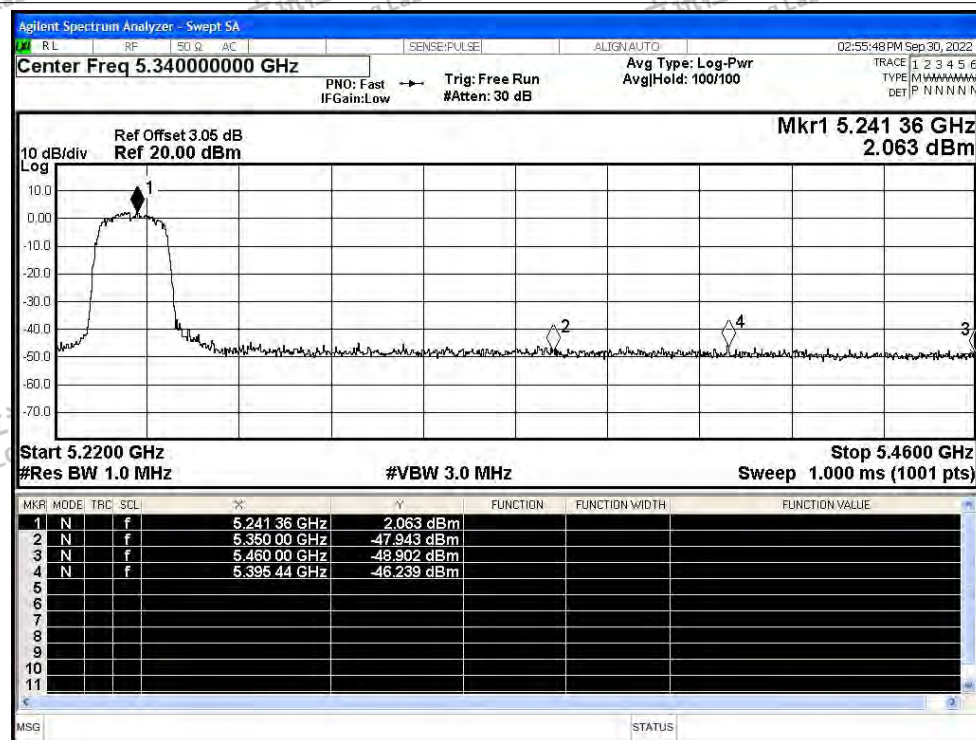


Restrict Band NVNT ac20 5180MHz Ant1 Average

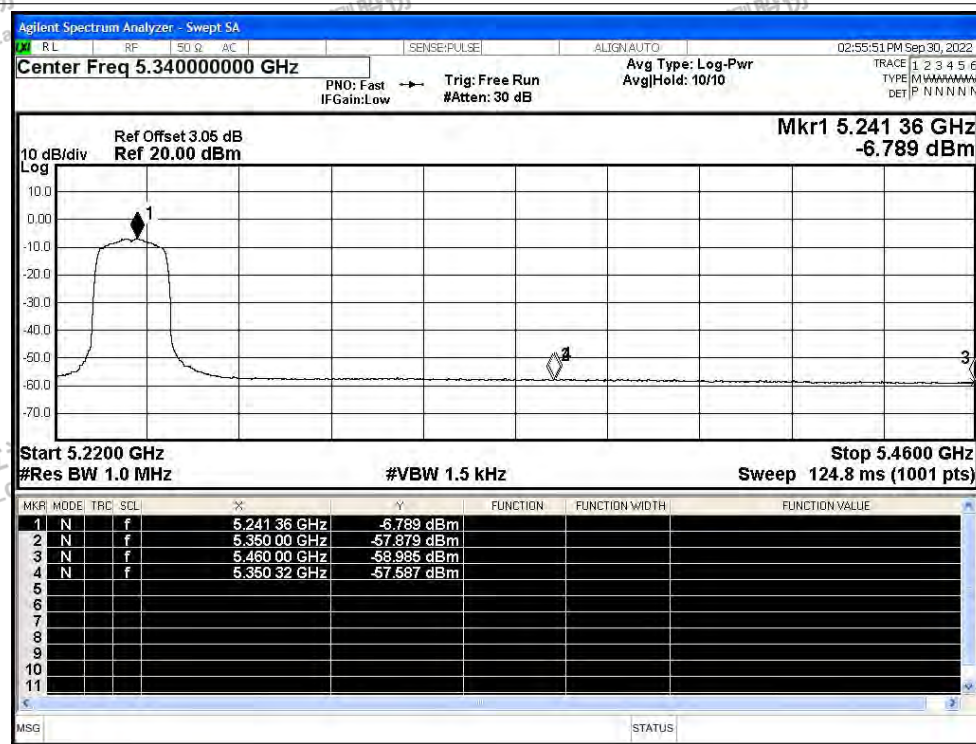




Restrict Band NVNT ac20 5240MHz Ant1 Peak

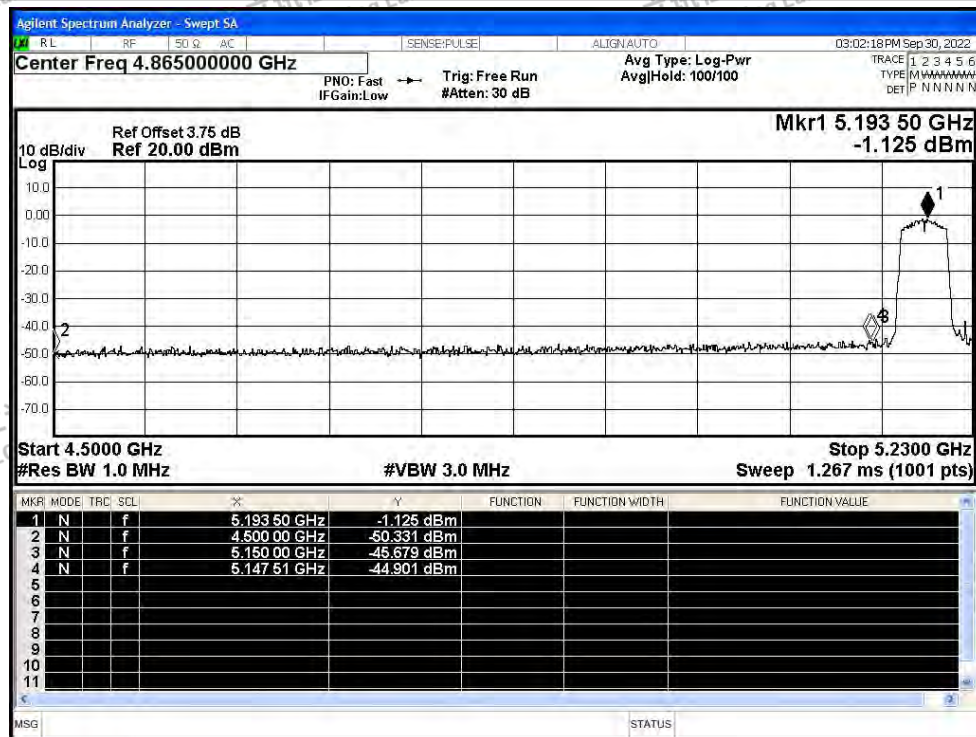


Restrict Band NVNT ac20 5240MHz Ant1 Average

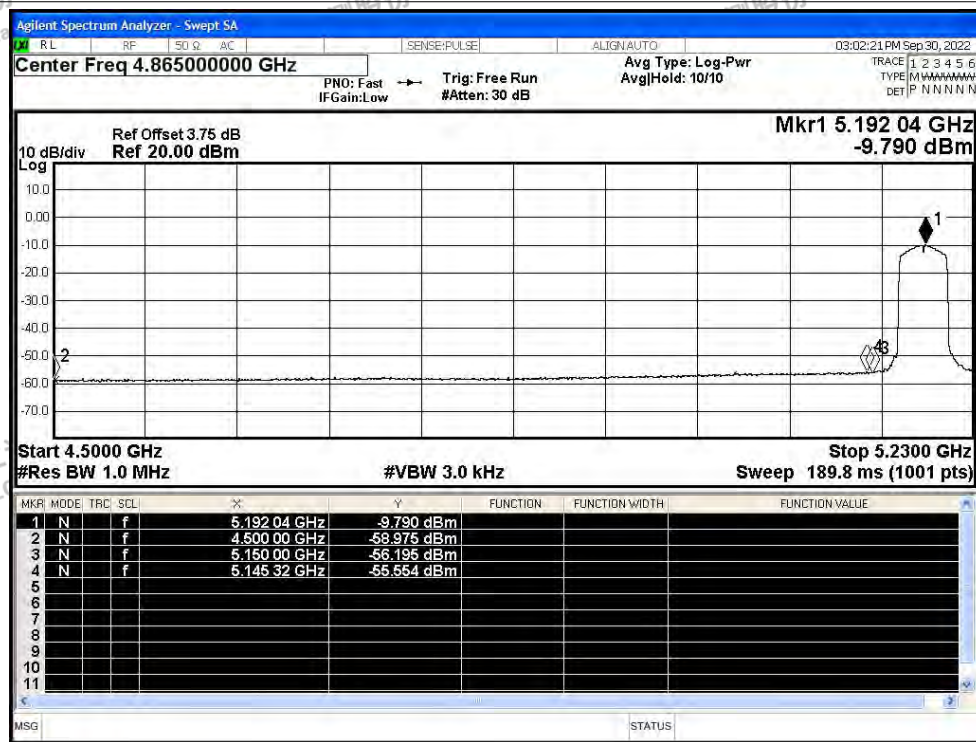




Restrict Band NVNT ac40 5190MHz Ant1 Peak

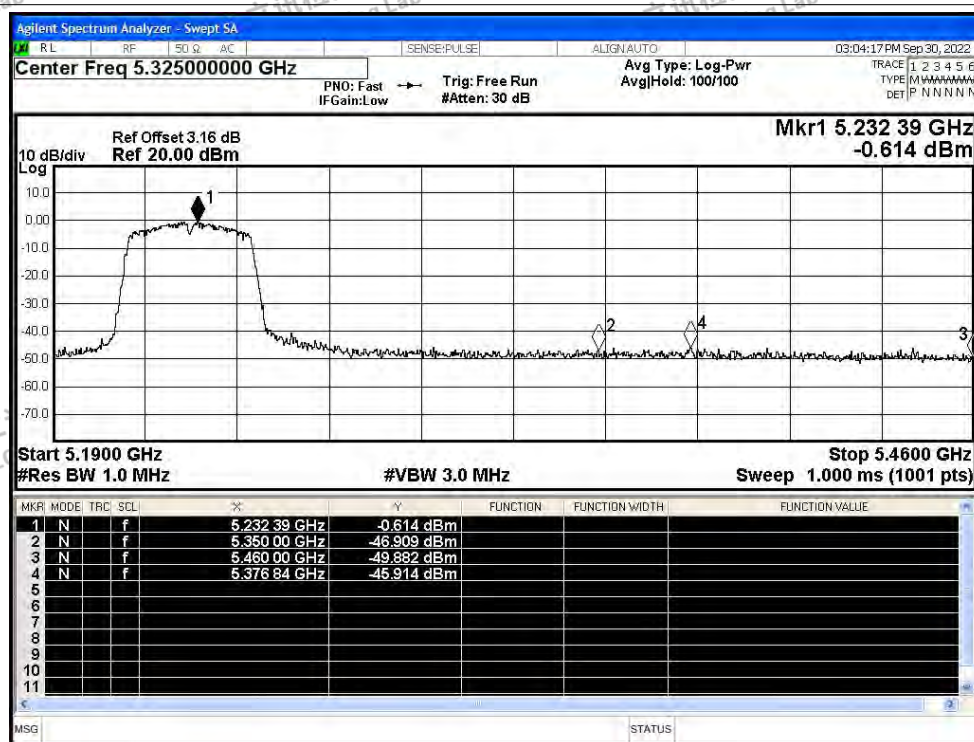


Restrict Band NVNT ac40 5190MHz Ant1 Average

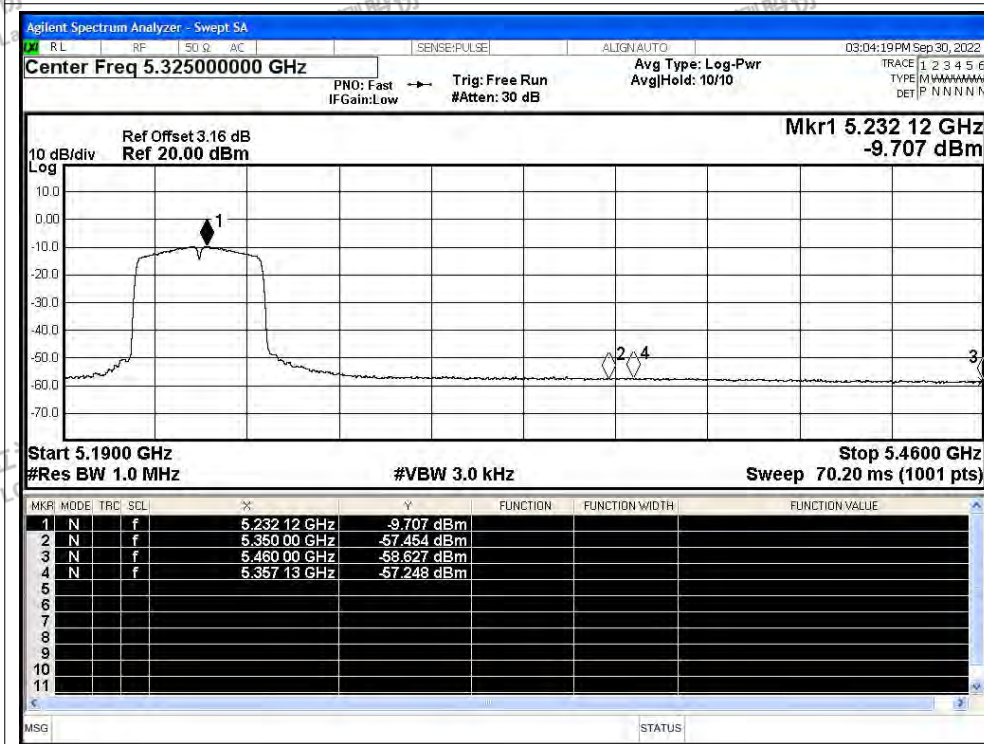




Restrict Band NVNT ac40 5230MHz Ant1 Peak

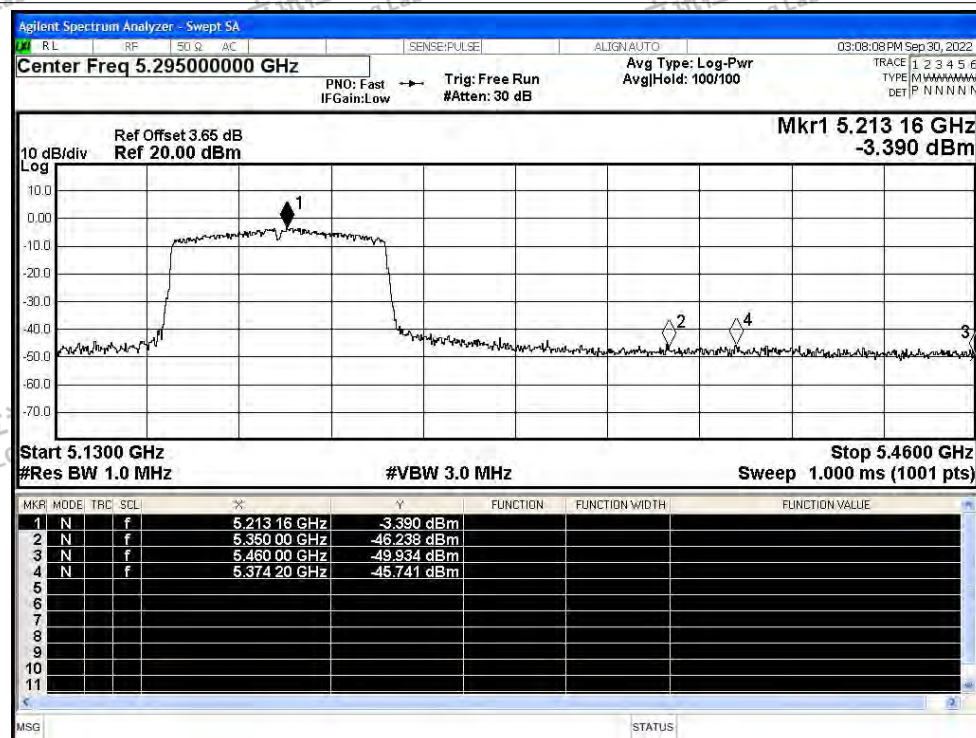


Restrict Band NVNT ac40 5230MHz Ant1 Average

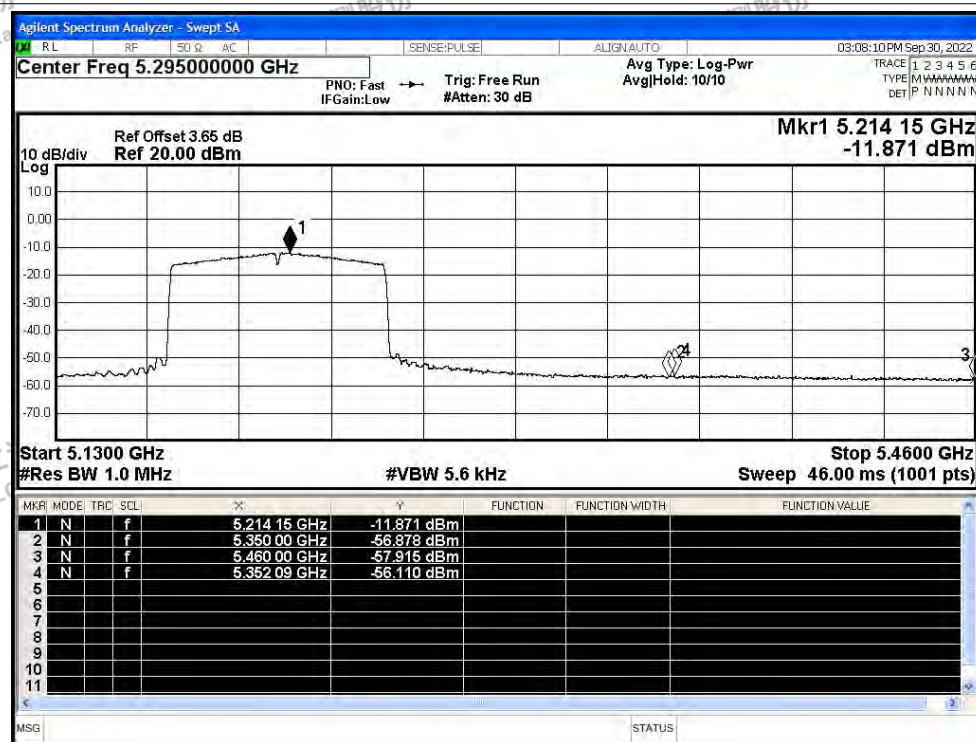




Restrict Band NVNT ac80 5210MHz Ant1 Peak

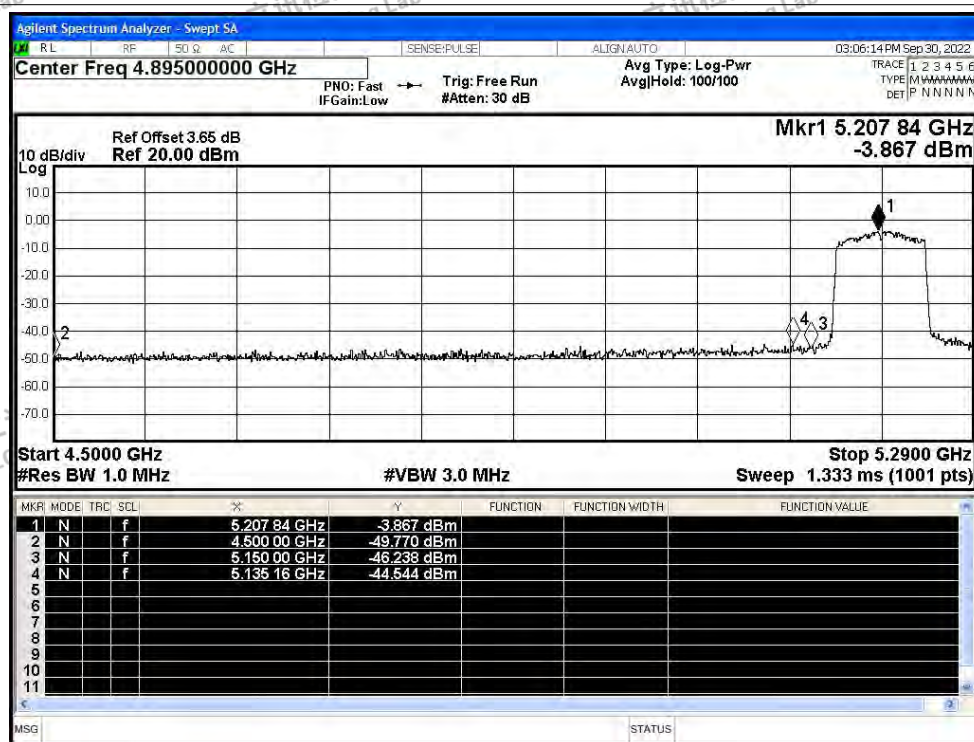


Restrict Band NVNT ac80 5210MHz Ant1 Average

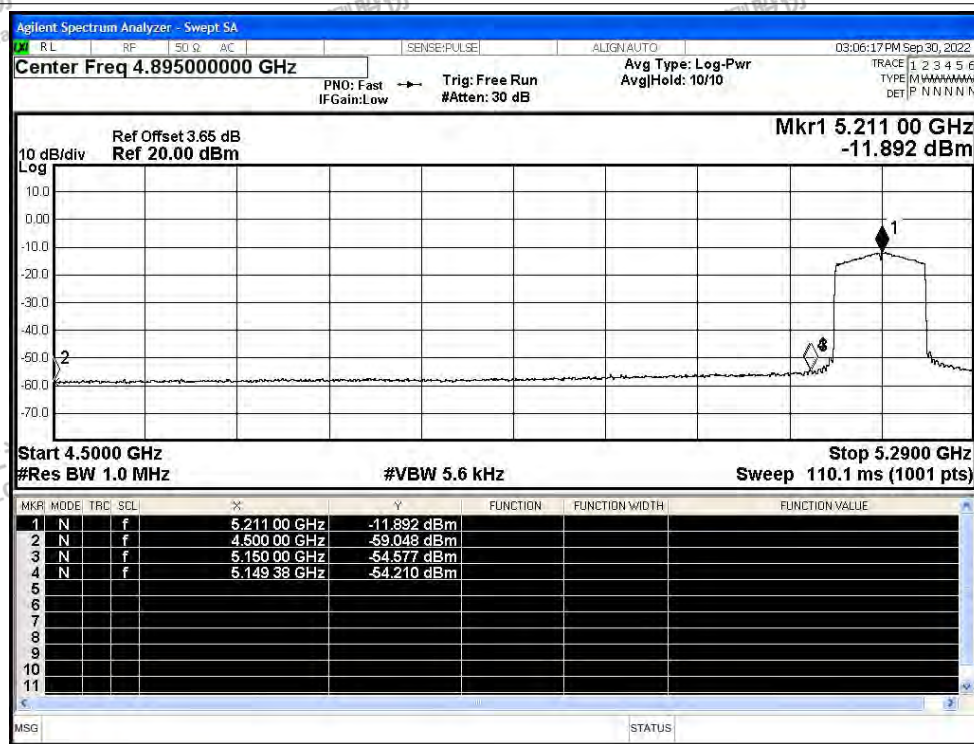




Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average





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	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
NVNT	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
NVNT	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

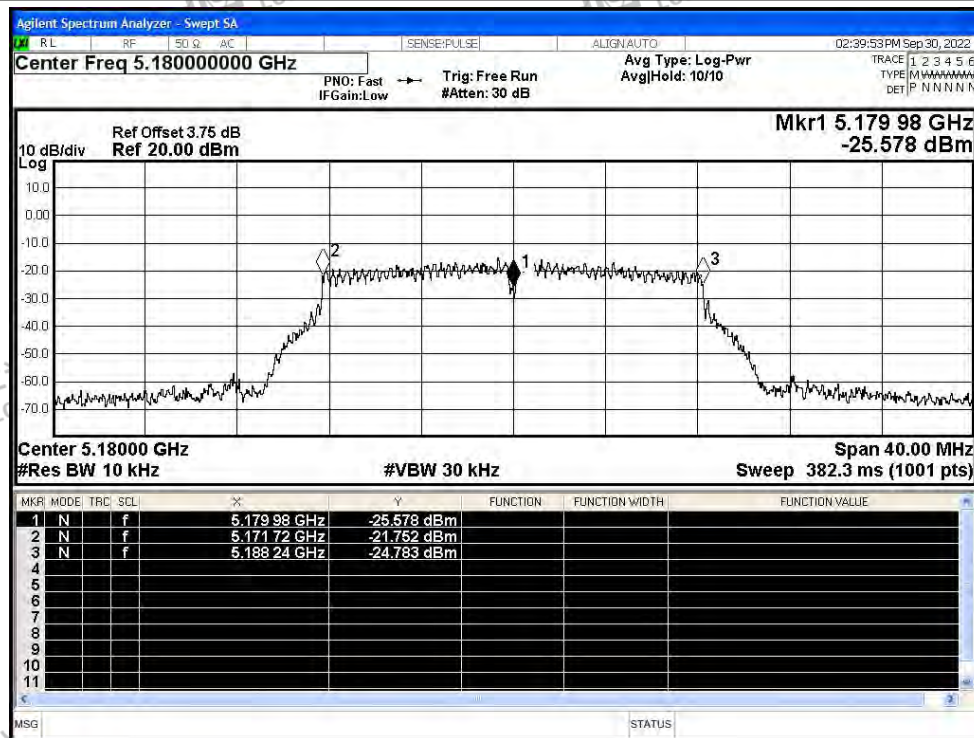


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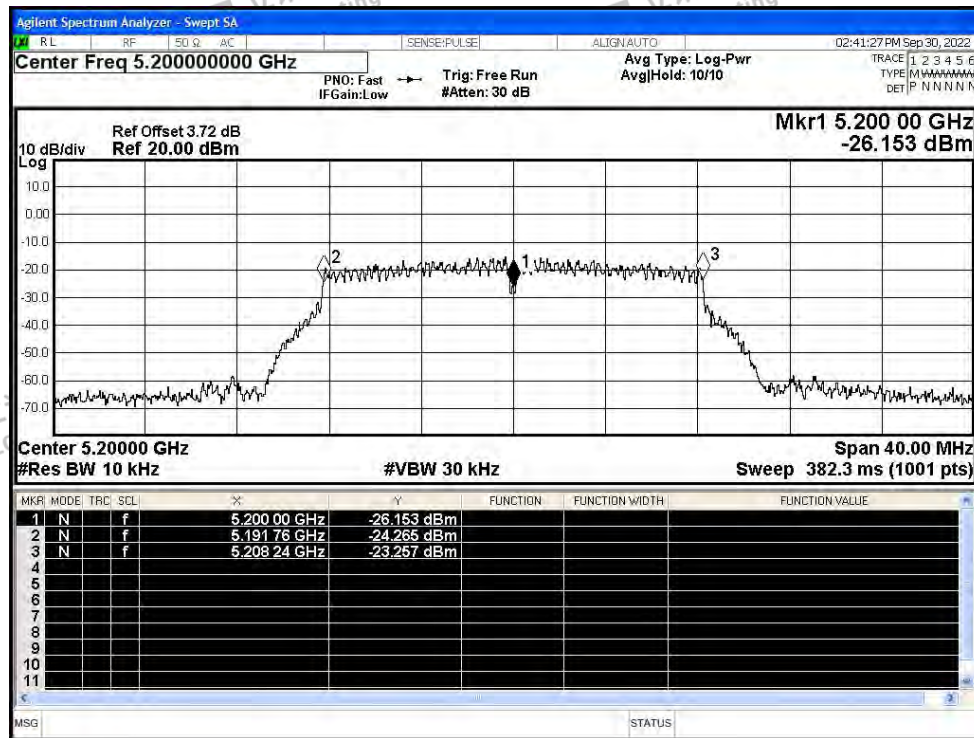


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1

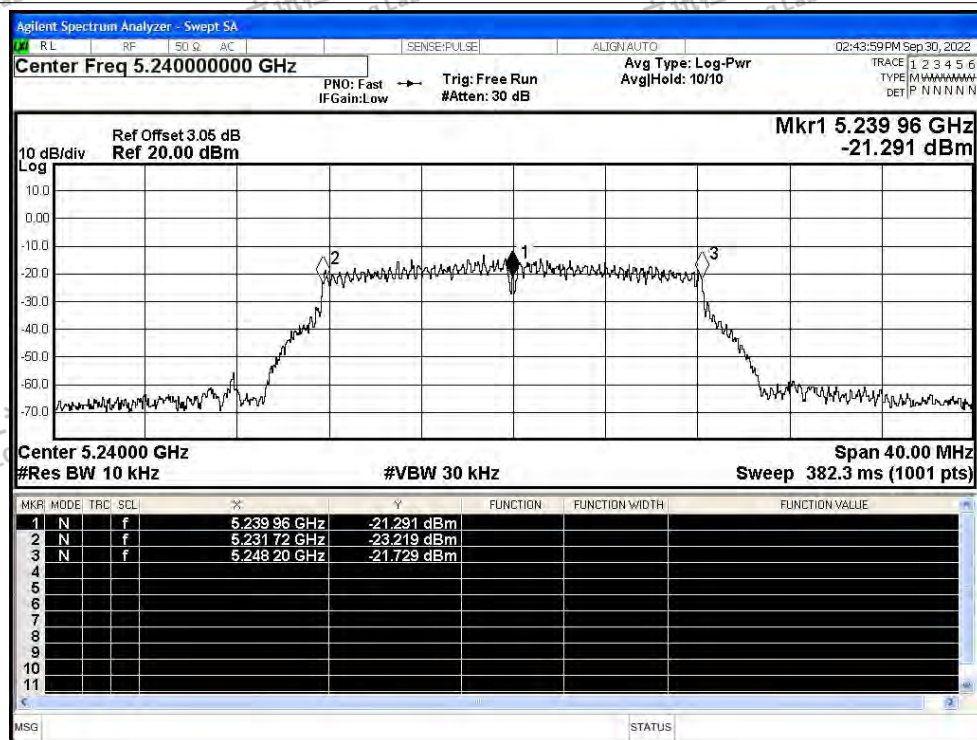


Freq. Stability NVNT a 5200MHz Ant1

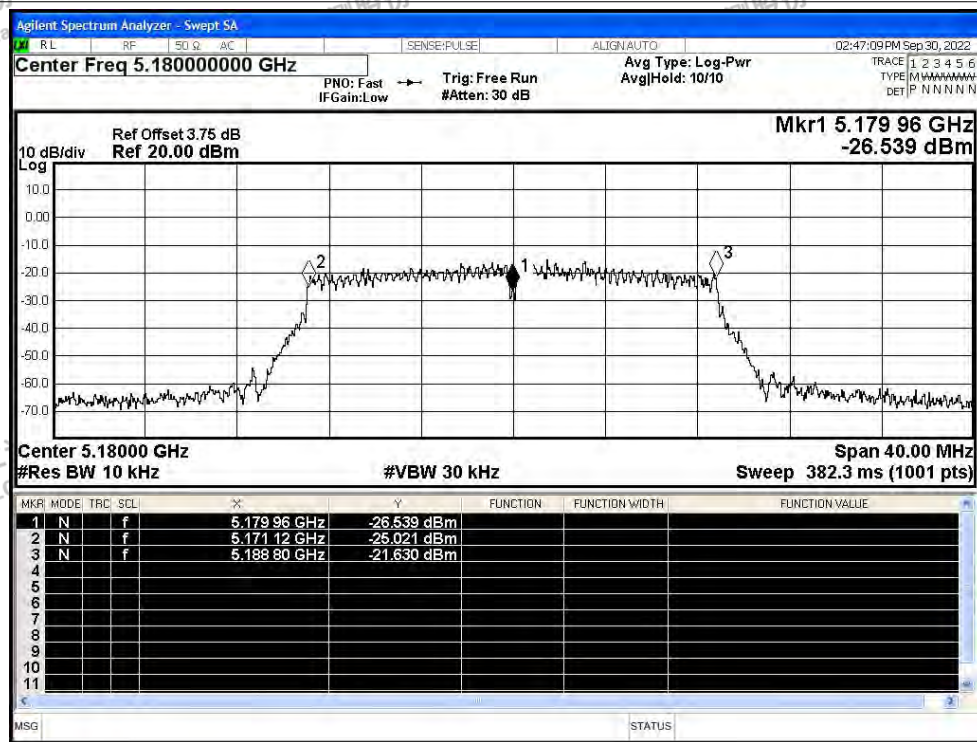




Freq. Stability NVNT a 5240MHz Ant1

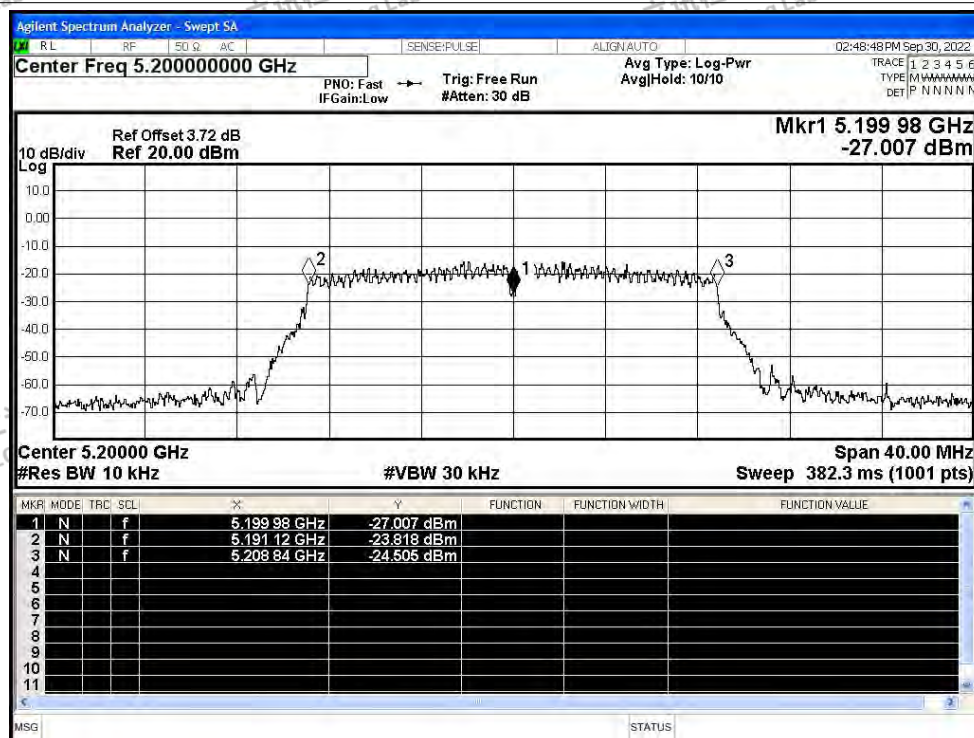


Freq. Stability NVNT n20 5180MHz Ant1

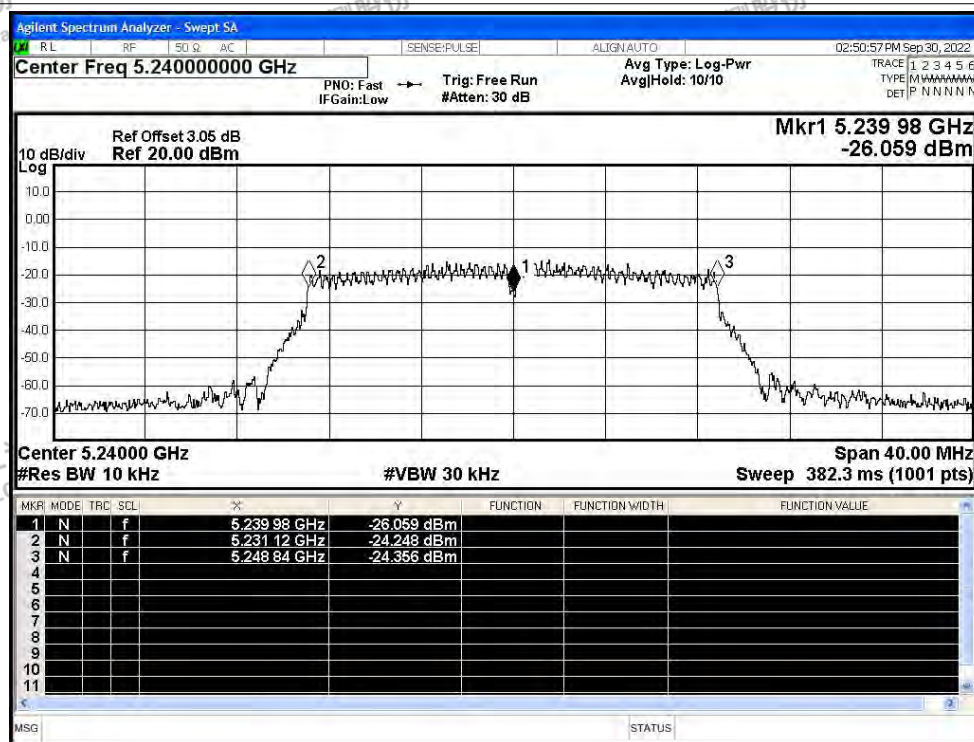




Freq. Stability NVNT n20 5200MHz Ant1

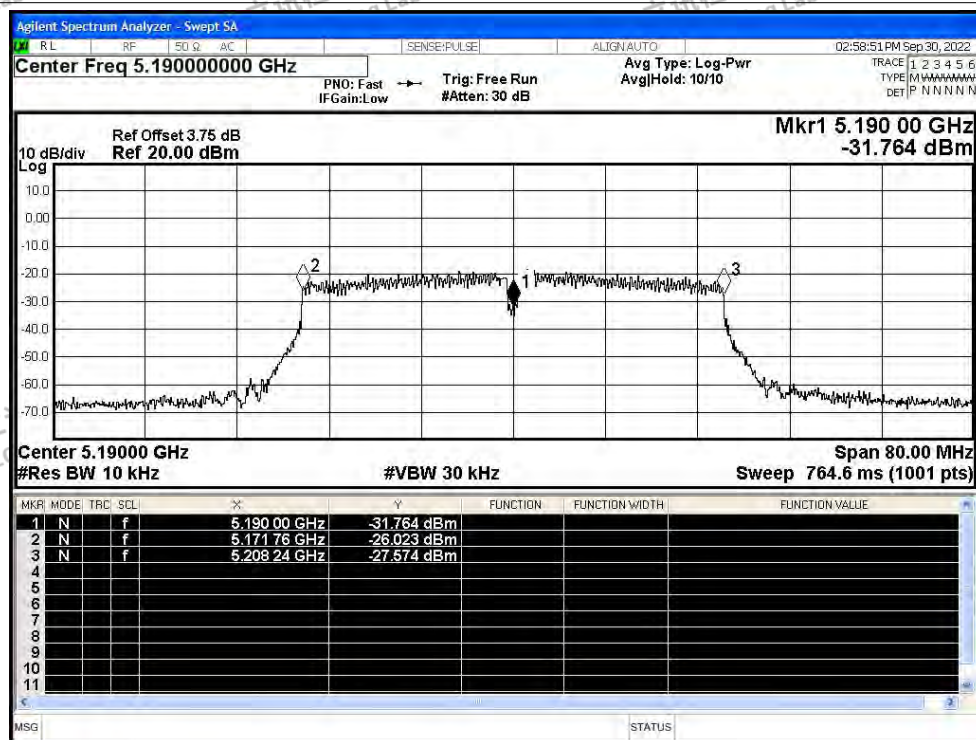


Freq. Stability NVNT n20 5240MHz Ant1

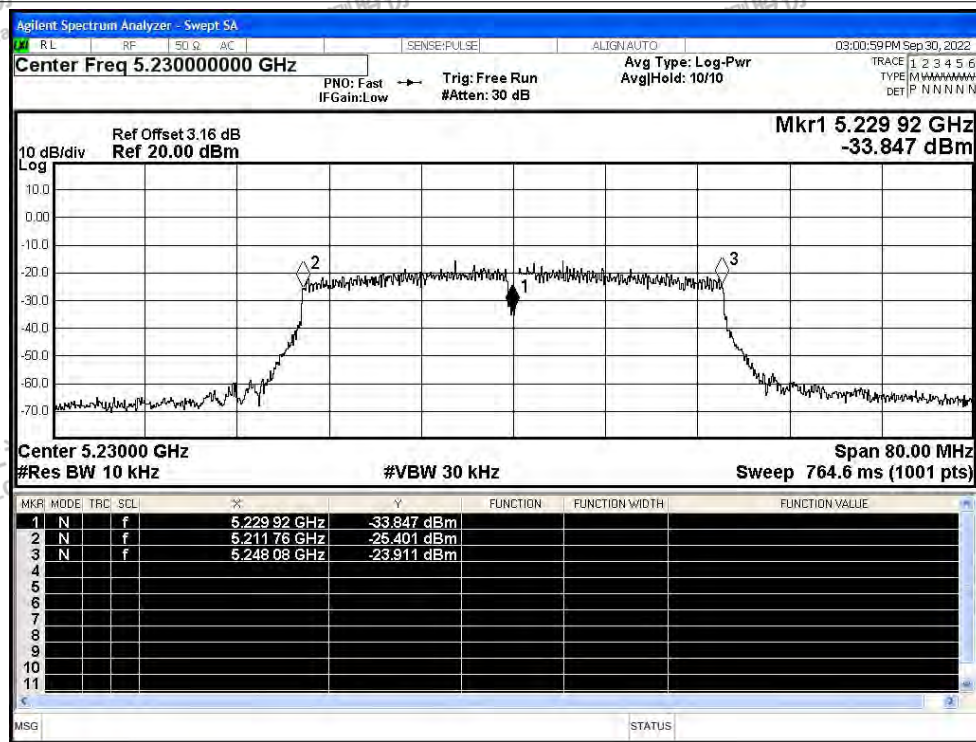




Freq. Stability NVNT n40 5190MHz Ant1

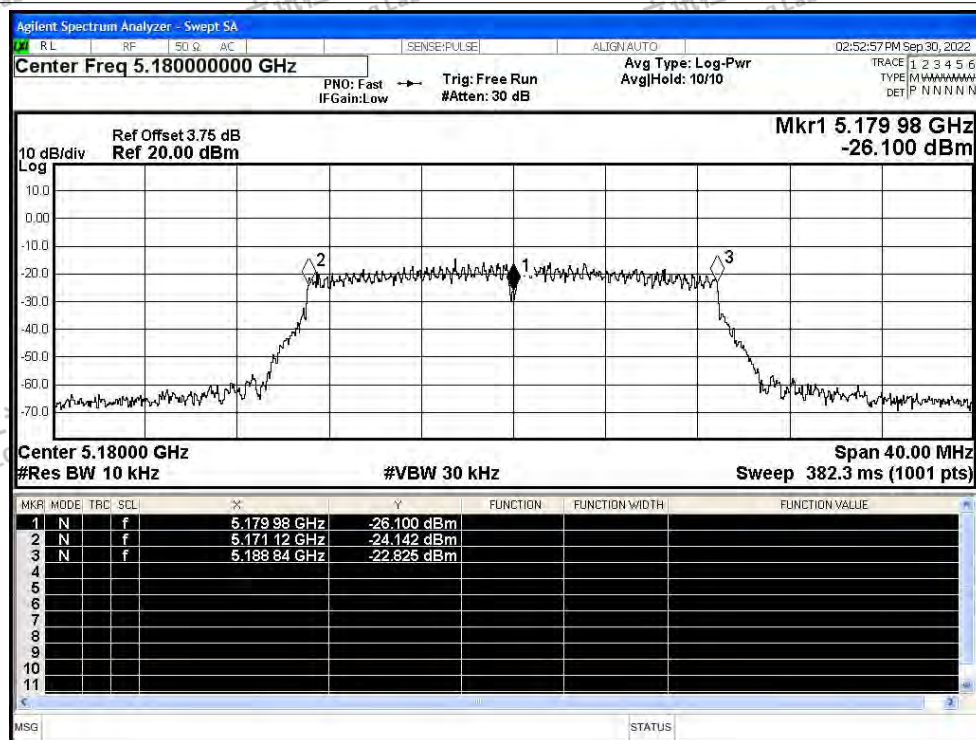


Freq. Stability NVNT n40 5230MHz Ant1

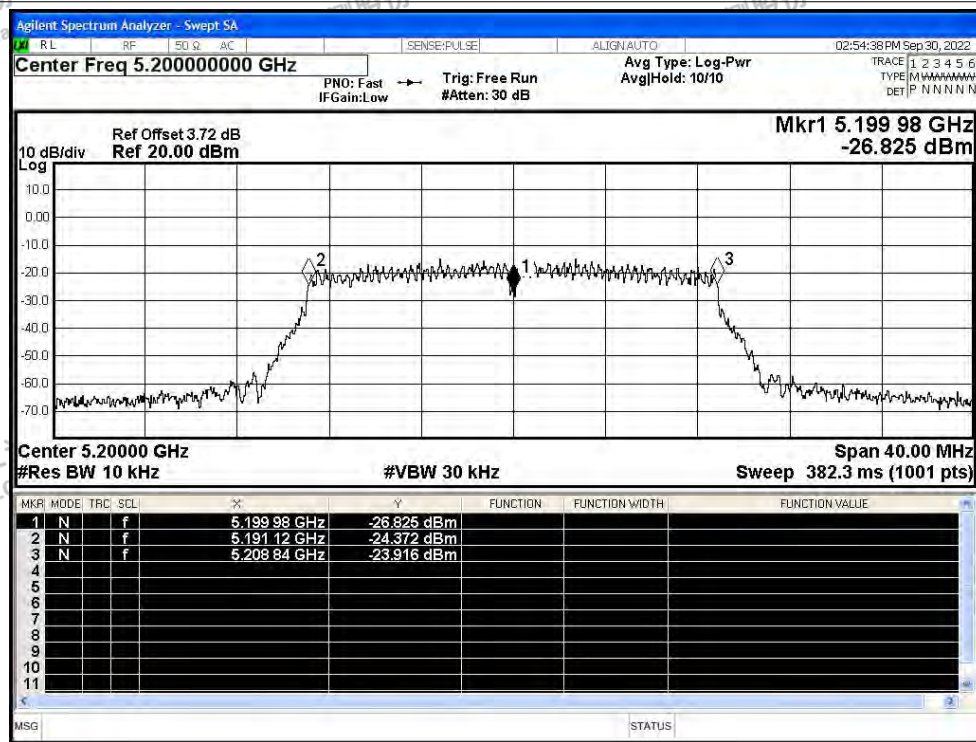




Freq. Stability NVNT ac20 5180MHz Ant1

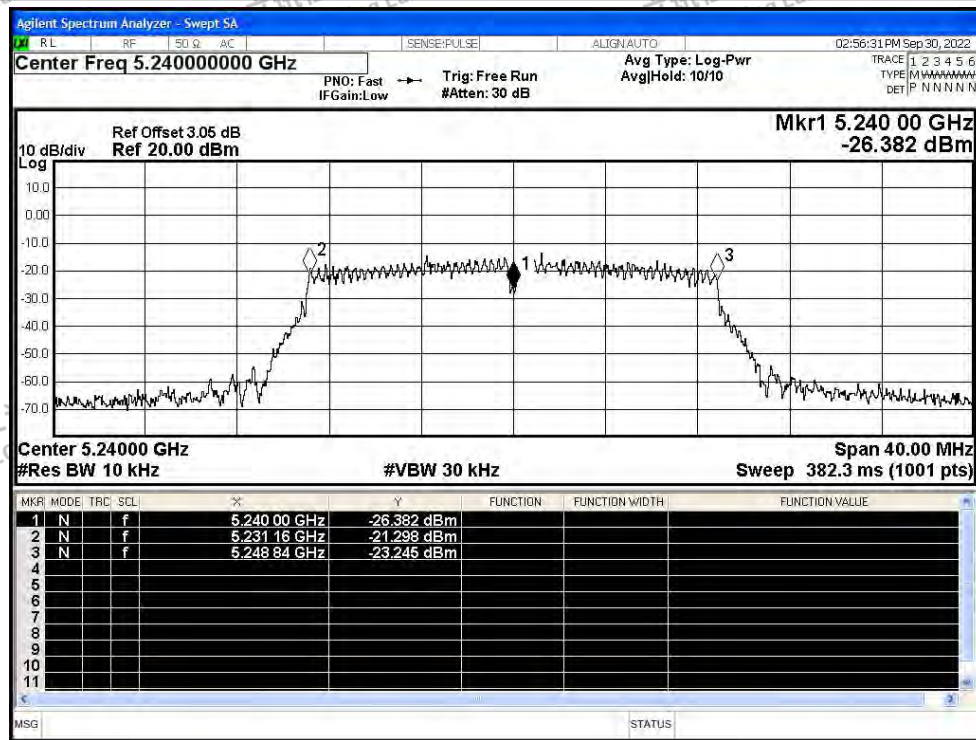


Freq. Stability NVNT ac20 5200MHz Ant1

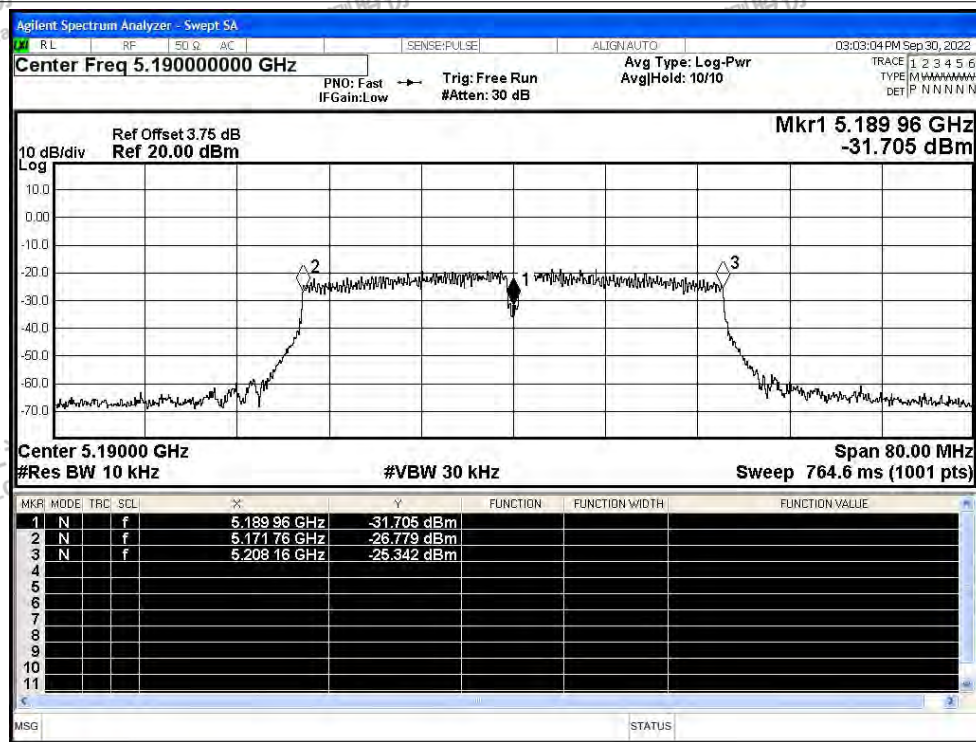




Freq. Stability NVNT ac20 5240MHz Ant1

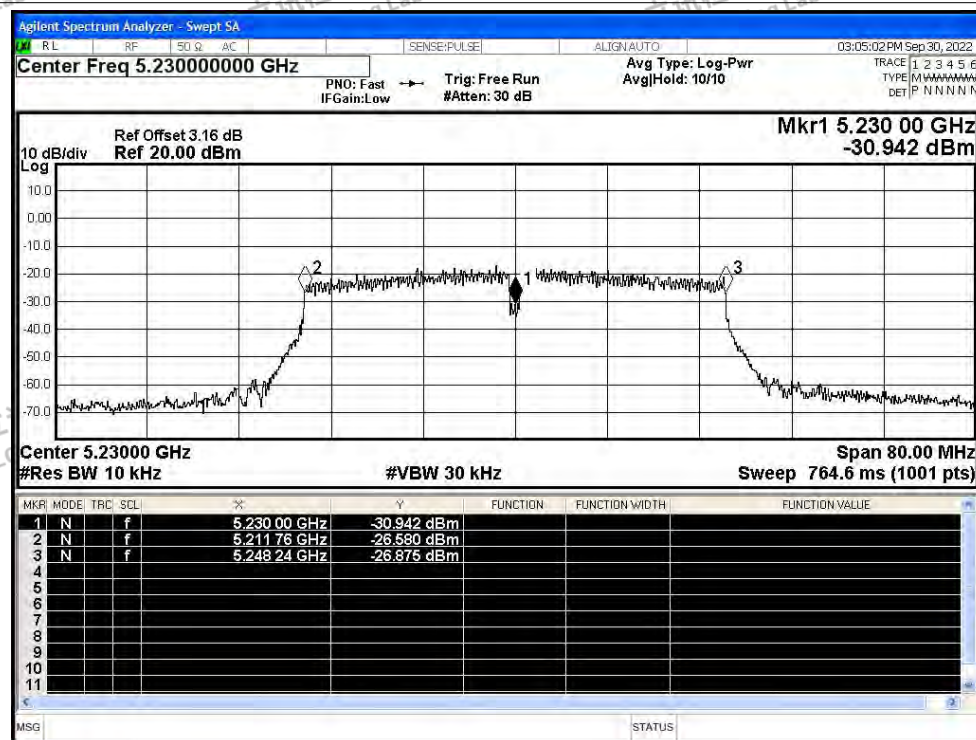


Freq. Stability NVNT ac40 5190MHz Ant1

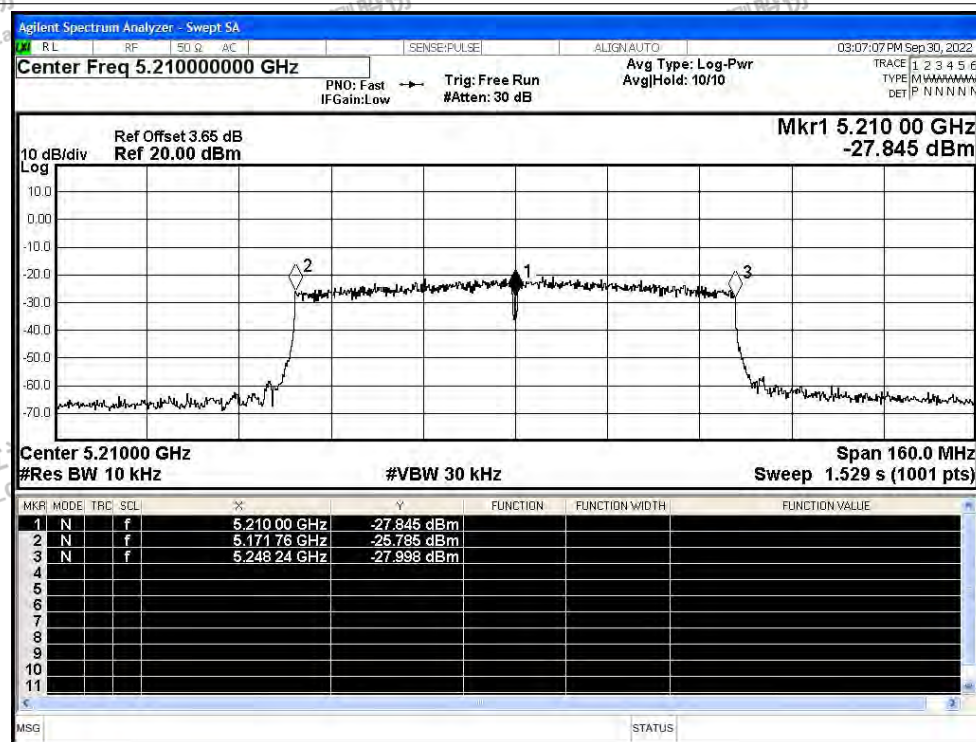




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1





D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	100	0	0
NVNT	a	5200	Ant1	100	0	0
NVNT	a	5240	Ant1	100	0	0
NVNT	n20	5180	Ant1	100	0	0
NVNT	n20	5200	Ant1	100	0	0
NVNT	n20	5240	Ant1	100	0	0
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	100	0	0
NVNT	ac20	5180	Ant1	100	0	0
NVNT	ac20	5200	Ant1	100	0	0
NVNT	ac20	5240	Ant1	100	0	0
NVNT	ac40	5190	Ant1	100	0	0
NVNT	ac40	5230	Ant1	100	0	0
NVNT	ac80	5210	Ant1	100	0	0

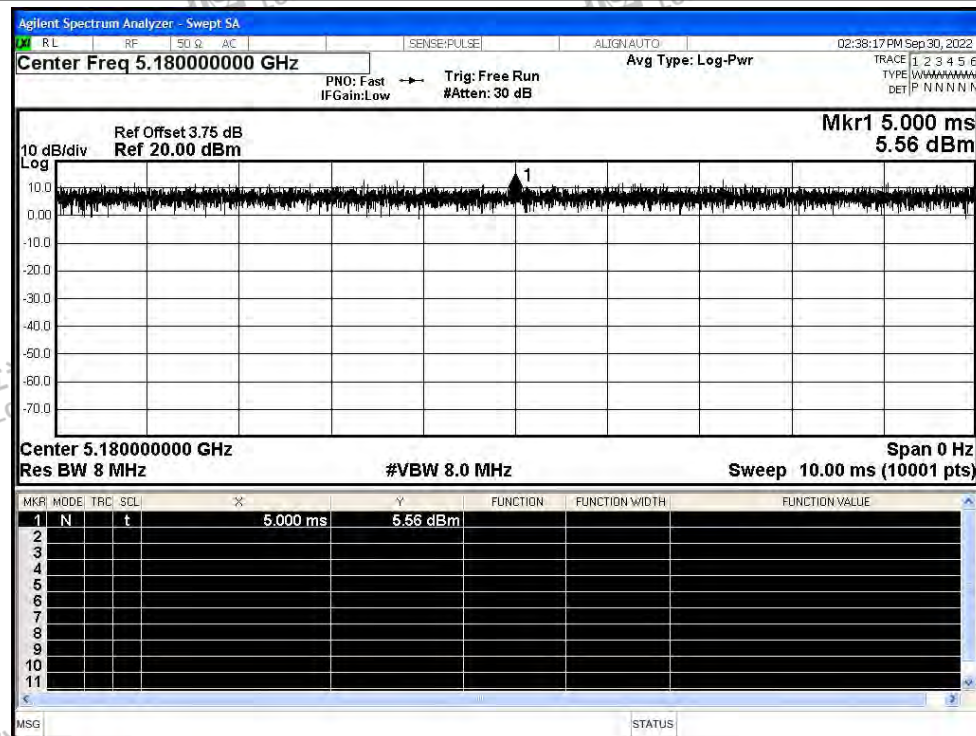


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Scan code to check authenticity

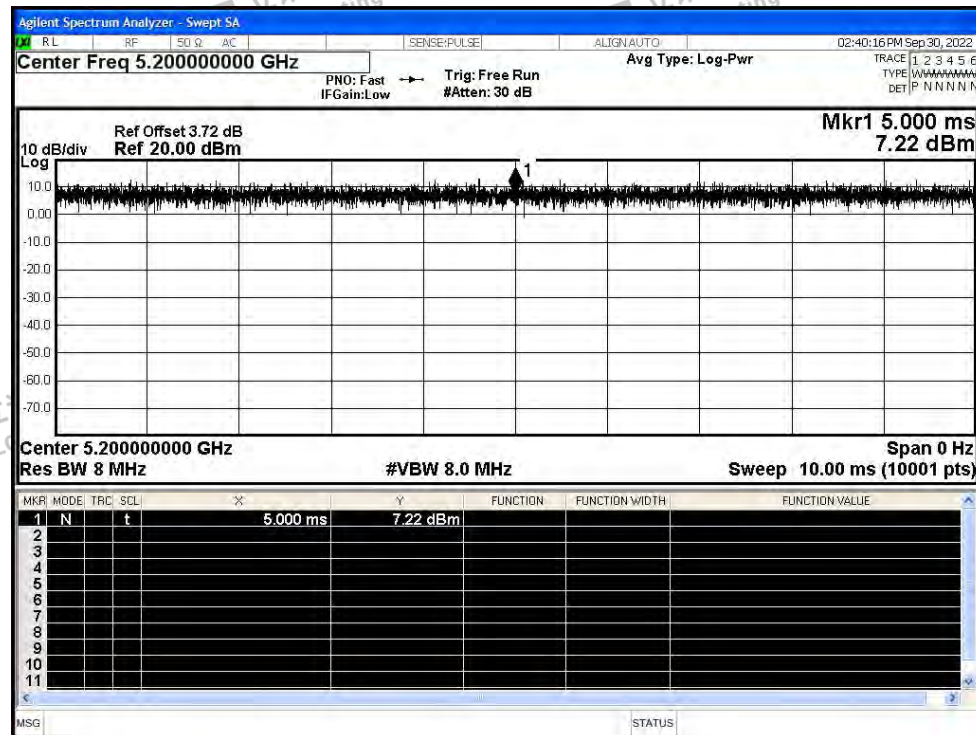


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

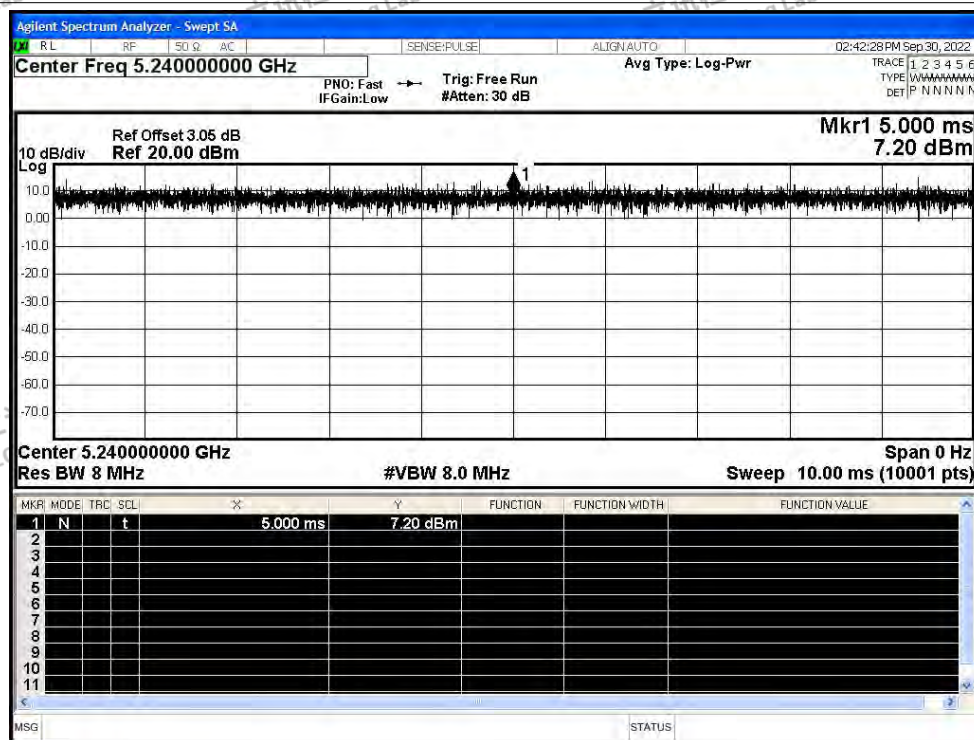


Duty Cycle NVNT a 5200MHz Ant1

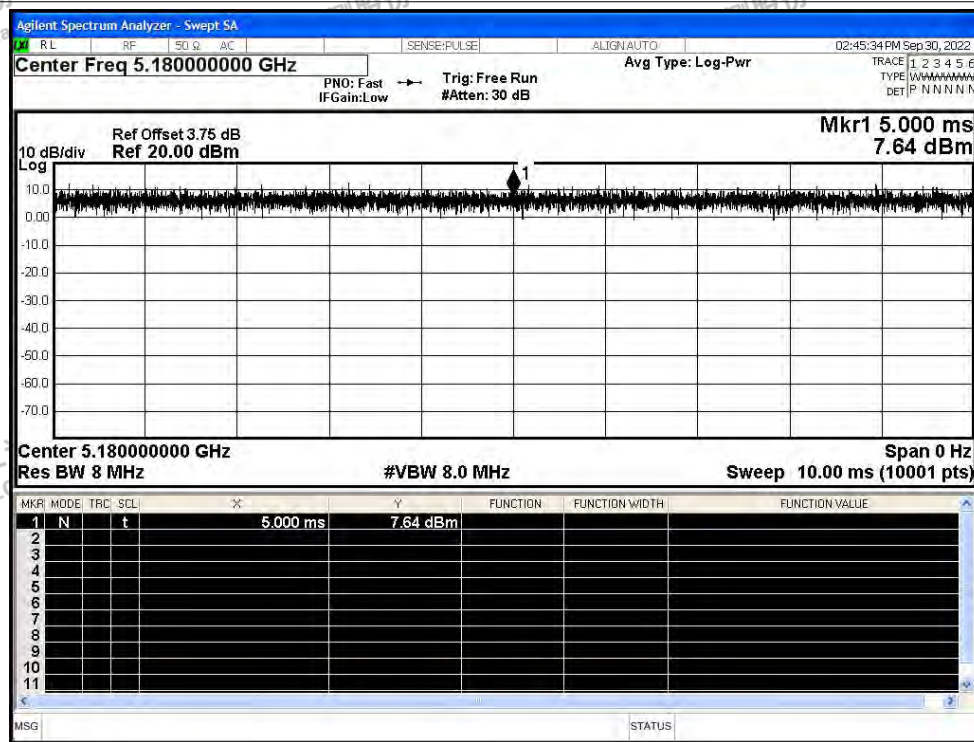




Duty Cycle NVNT a 5240MHz Ant1

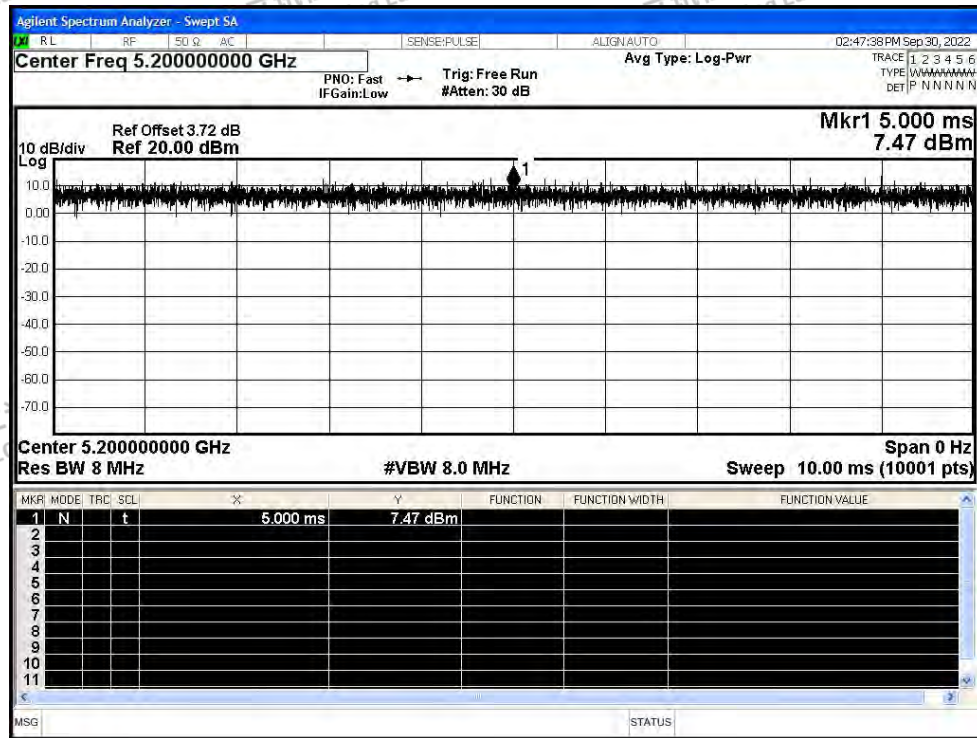


Duty Cycle NVNT n20 5180MHz Ant1

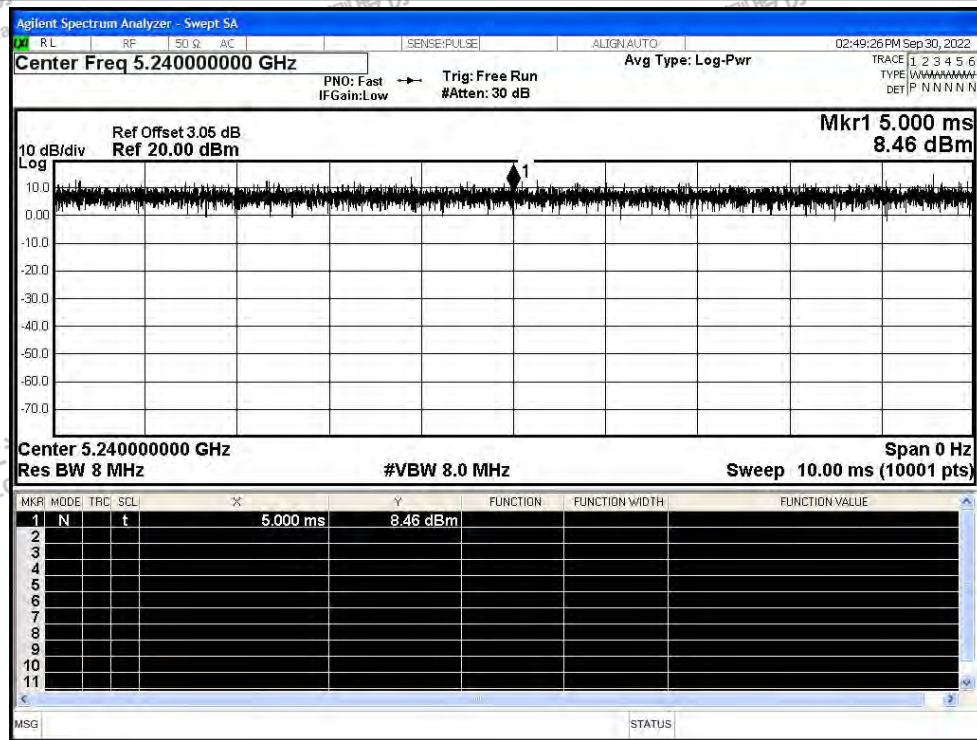




Duty Cycle NVNT n20 5200MHz Ant1

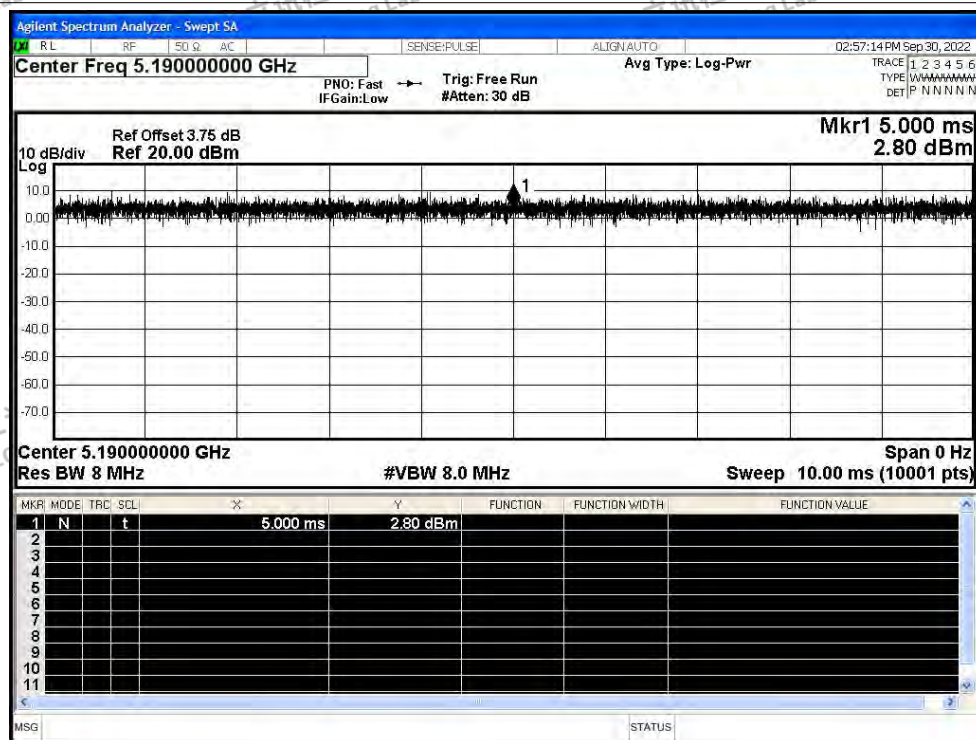


Duty Cycle NVNT n20 5240MHz Ant1

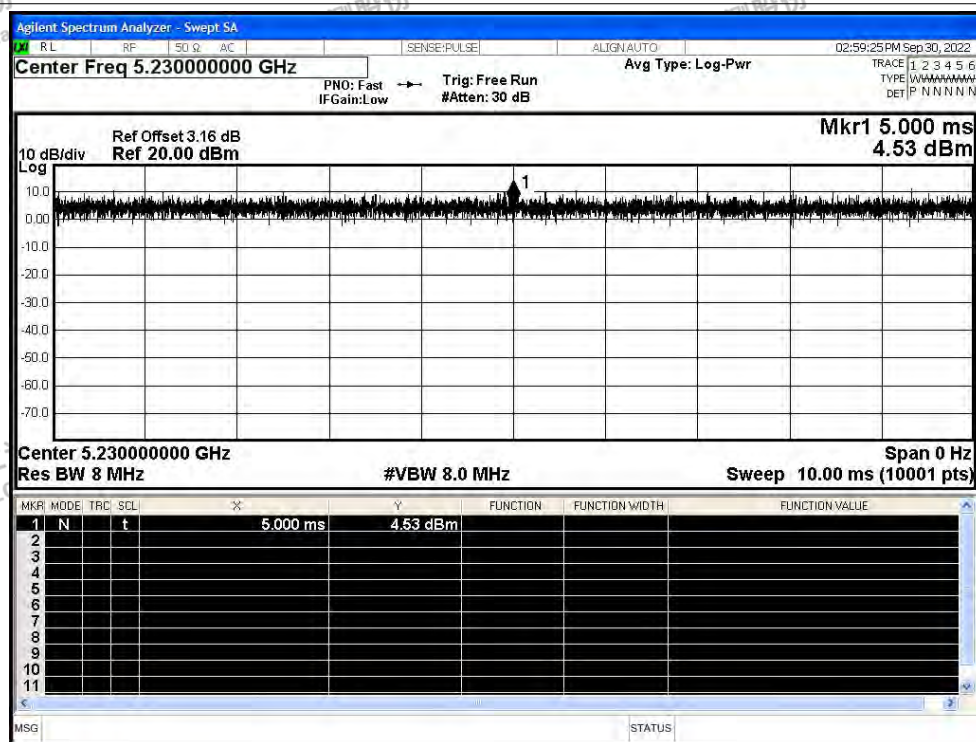




Duty Cycle NVNT n40 5190MHz Ant1

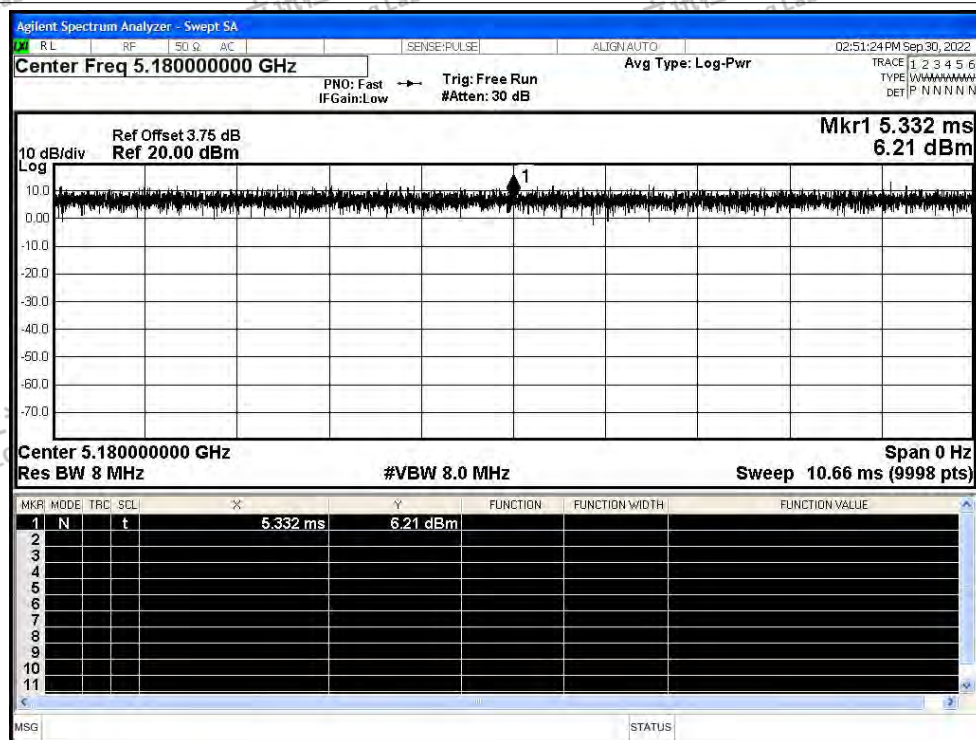


Duty Cycle NVNT n40 5230MHz Ant1

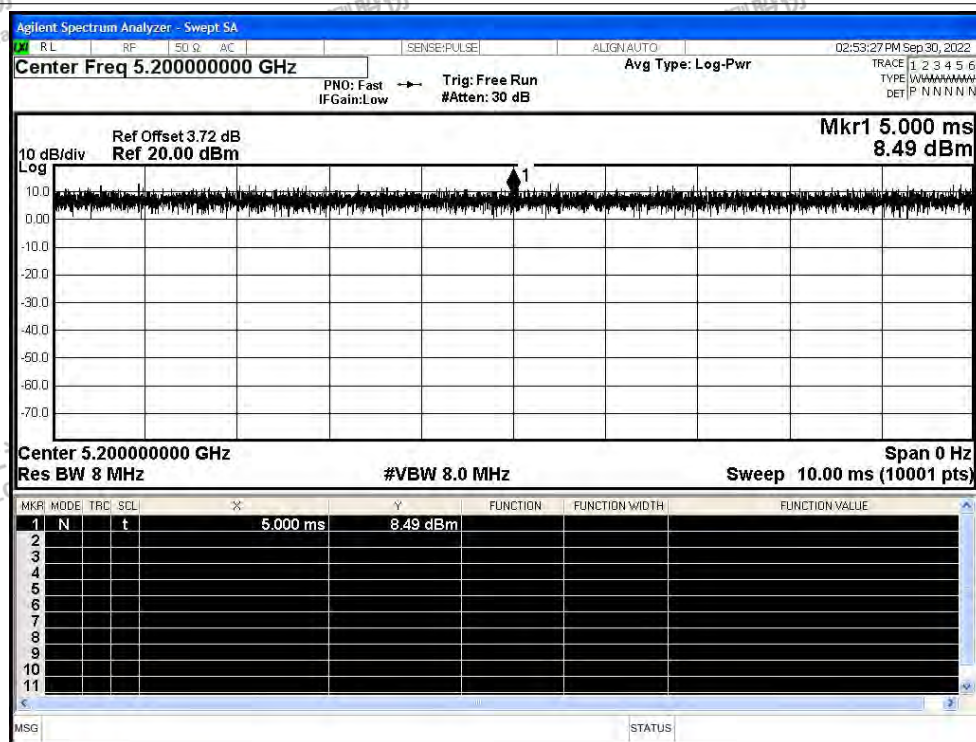




Duty Cycle NVNT ac20 5180MHz Ant1

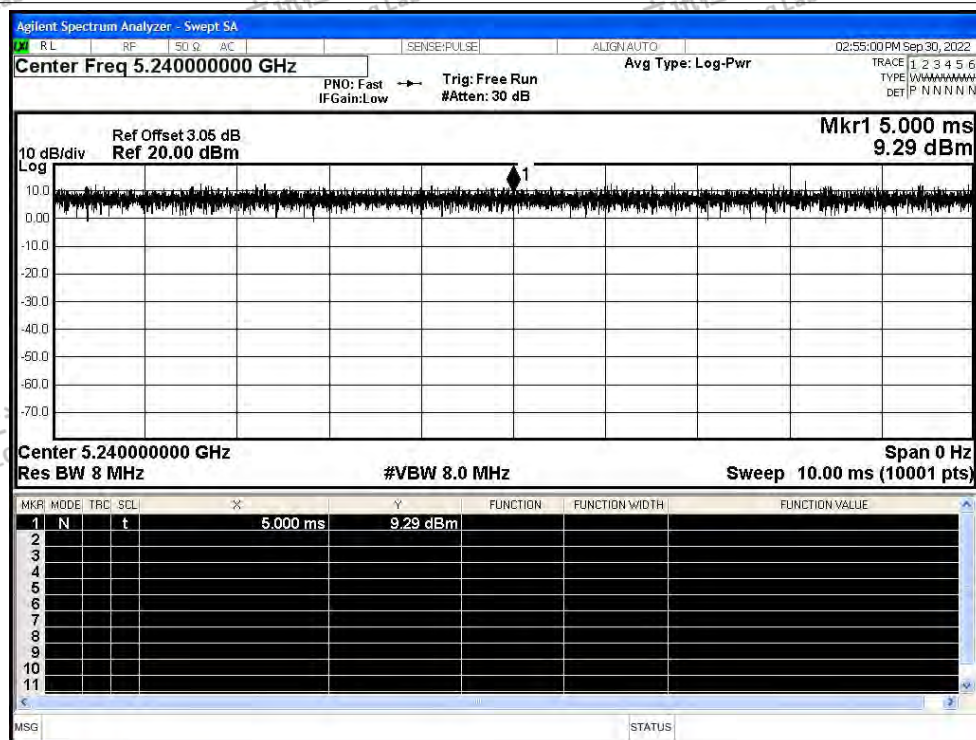


Duty Cycle NVNT ac20 5200MHz Ant1

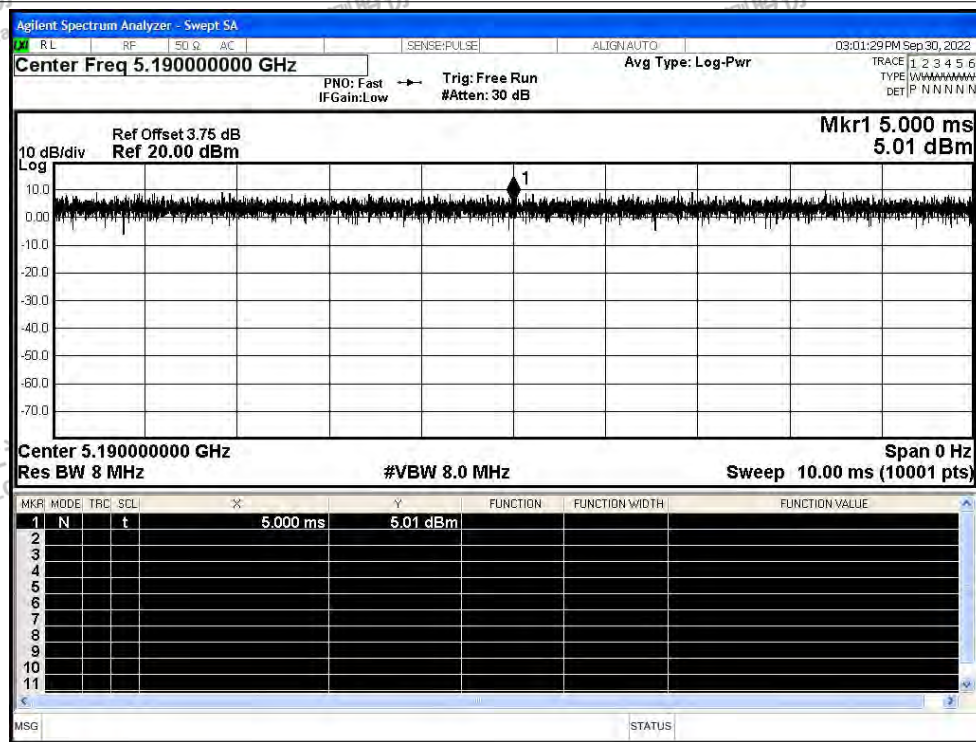




Duty Cycle NVNT ac20 5240MHz Ant1

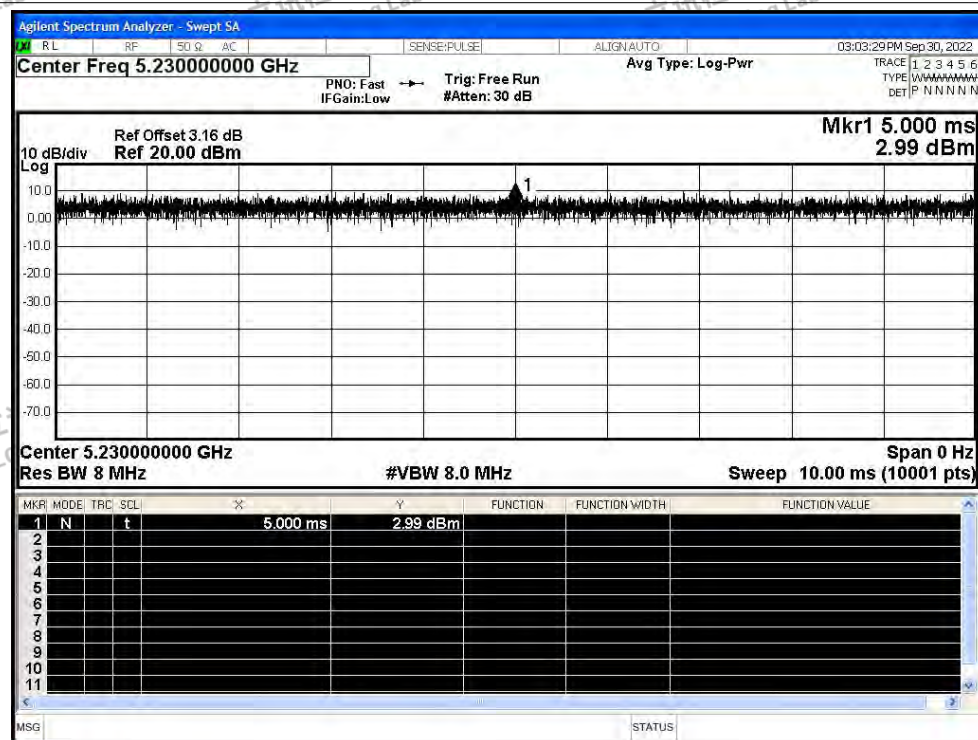


Duty Cycle NVNT ac40 5190MHz Ant1





Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1

