



Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: MC400

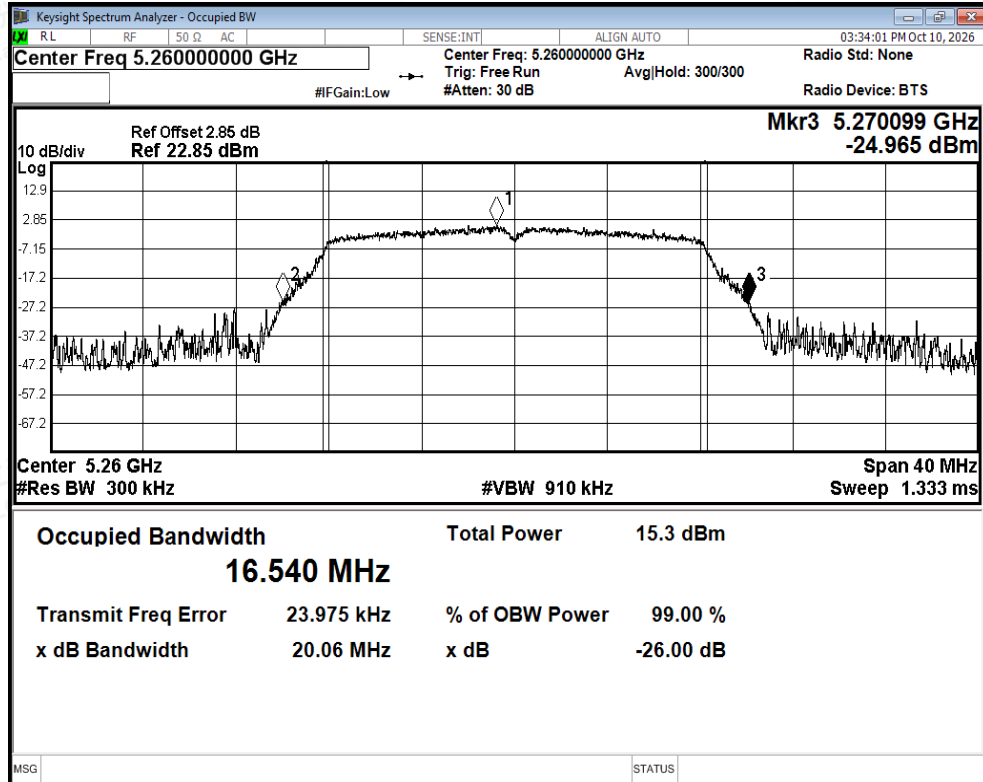
Environmental Conditions

Temperature:	24.9° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

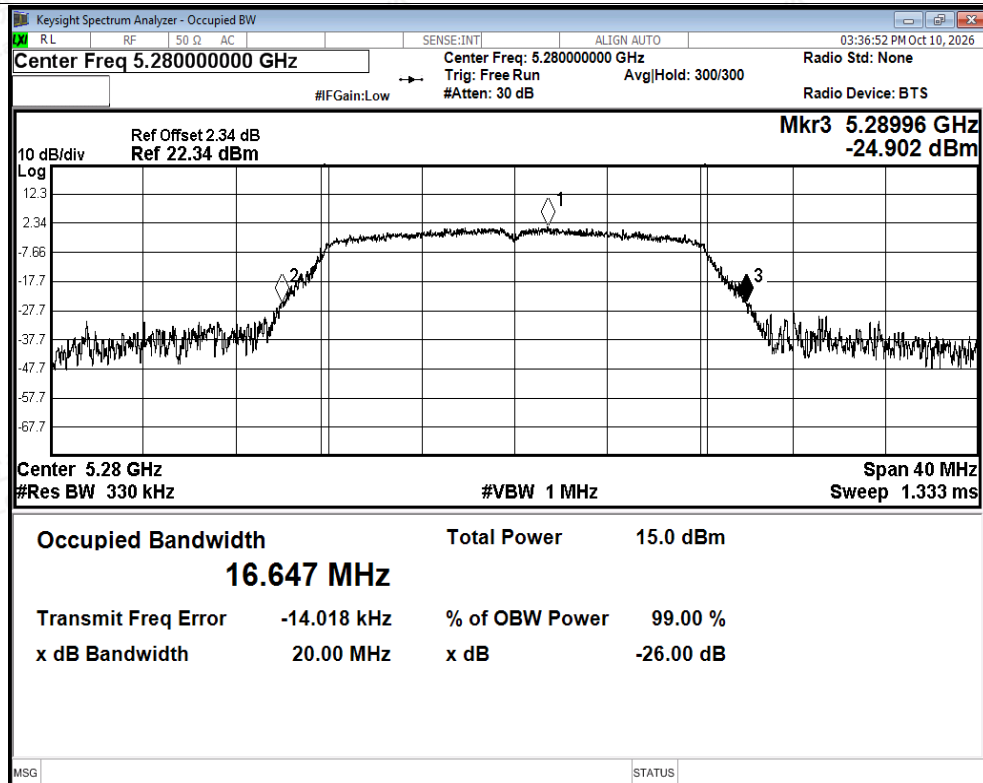


E.1 -26dB Bandwidth

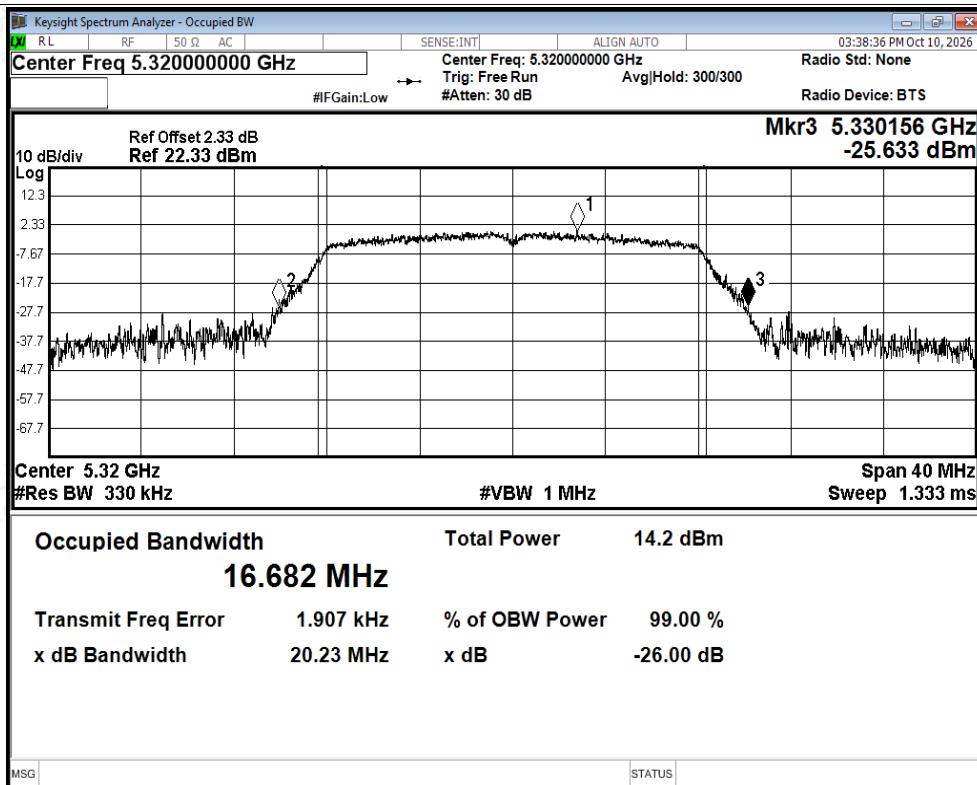
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	20.06
NVNT	a	5280	Ant1	20
NVNT	a	5320	Ant1	20.23
NVNT	n20	5260	Ant1	21.01
NVNT	n20	5280	Ant1	20.72
NVNT	n20	5320	Ant1	20.28
NVNT	n40	5270	Ant1	40.92
NVNT	n40	5310	Ant1	54.52
NVNT	ac20	5260	Ant1	20.45
NVNT	ac20	5280	Ant1	20.38
NVNT	ac20	5320	Ant1	20.42
NVNT	ac40	5270	Ant1	40.47
NVNT	ac40	5310	Ant1	41.13
NVNT	ac80	5290	Ant1	96.82



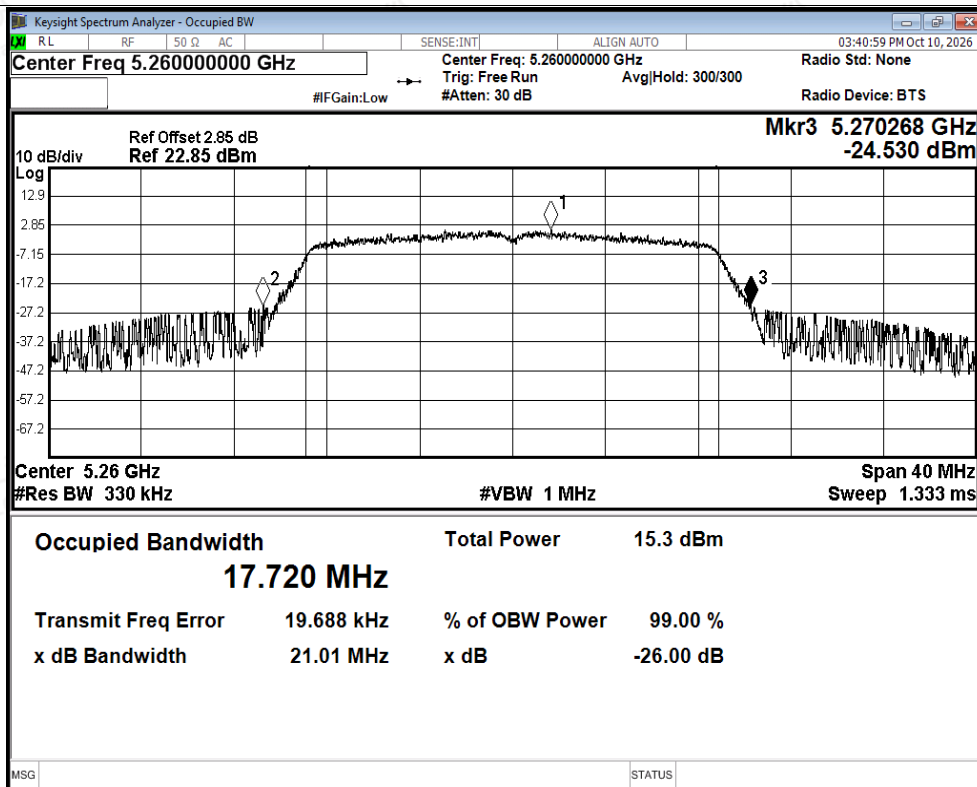
-26dB Bandwidth NVNT a 5260MHz Ant1



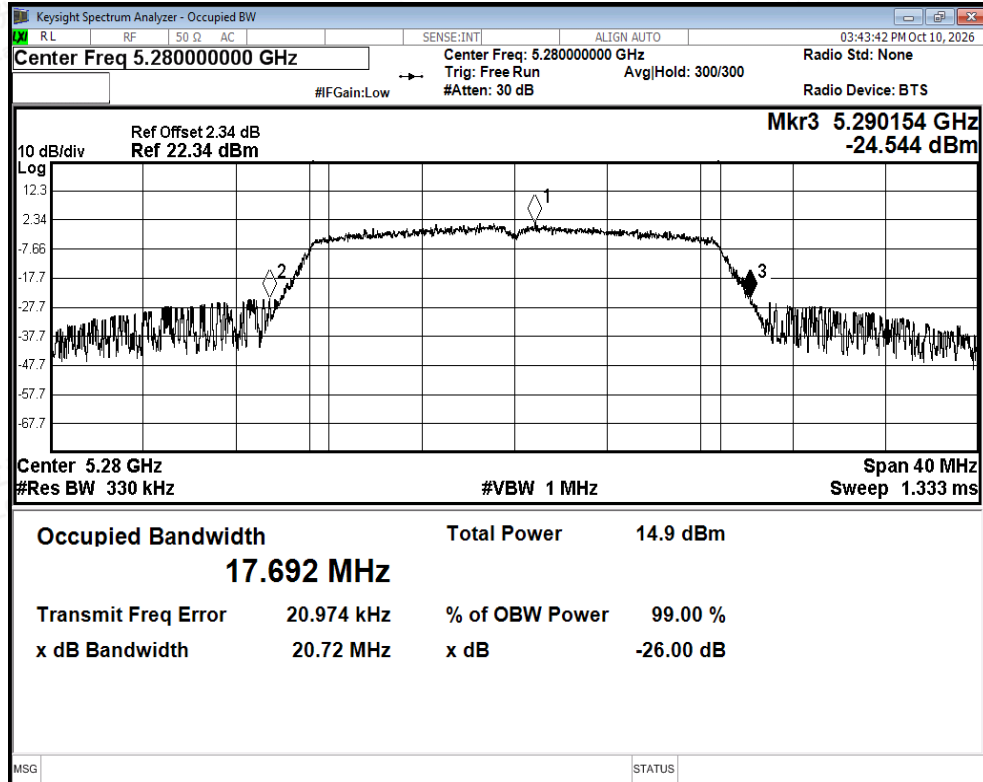
-26dB Bandwidth NVNT a 5280MHz Ant1



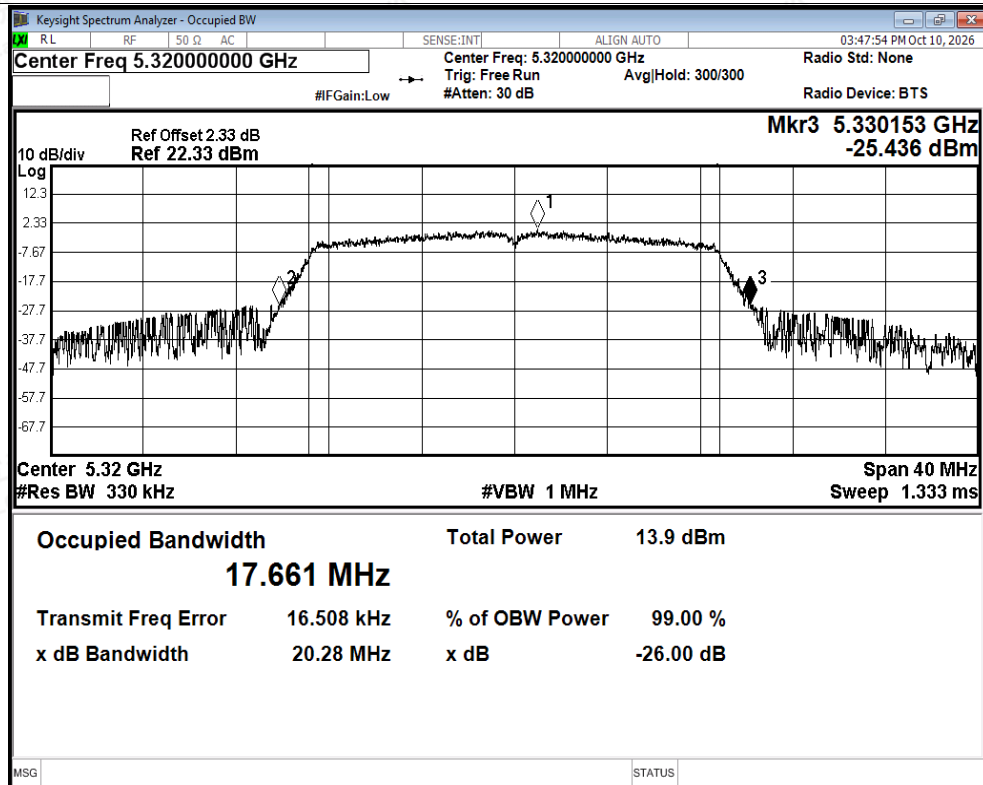
-26dB Bandwidth NVNT a 5320MHz Ant1



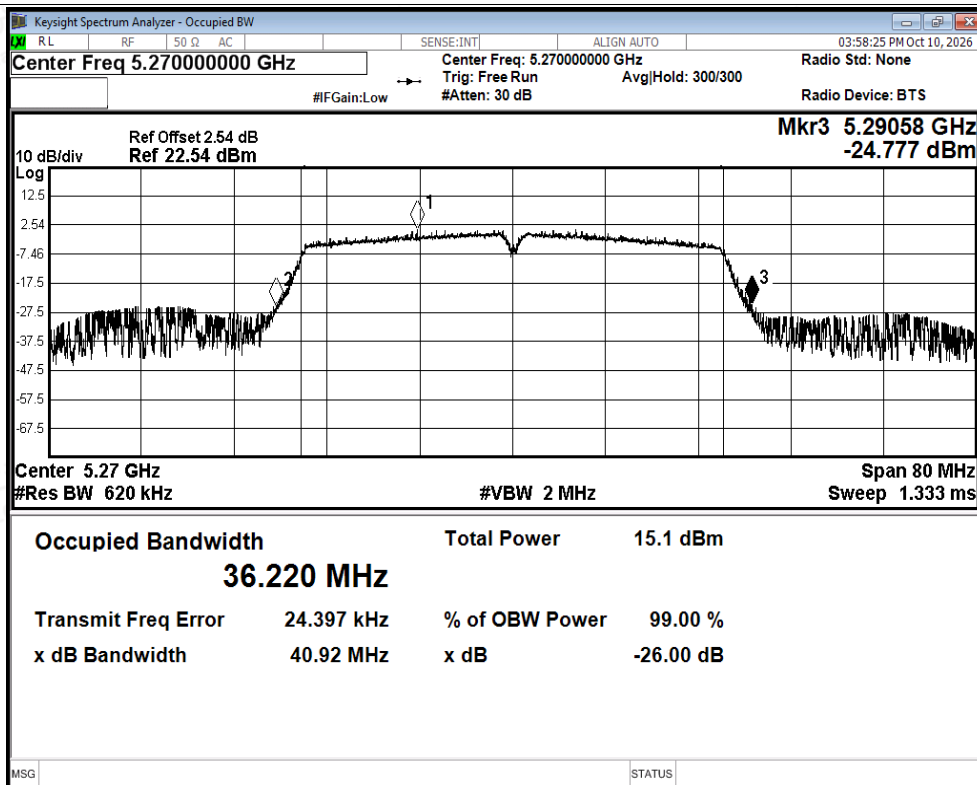
-26dB Bandwidth NVNT n20 5260MHz Ant1



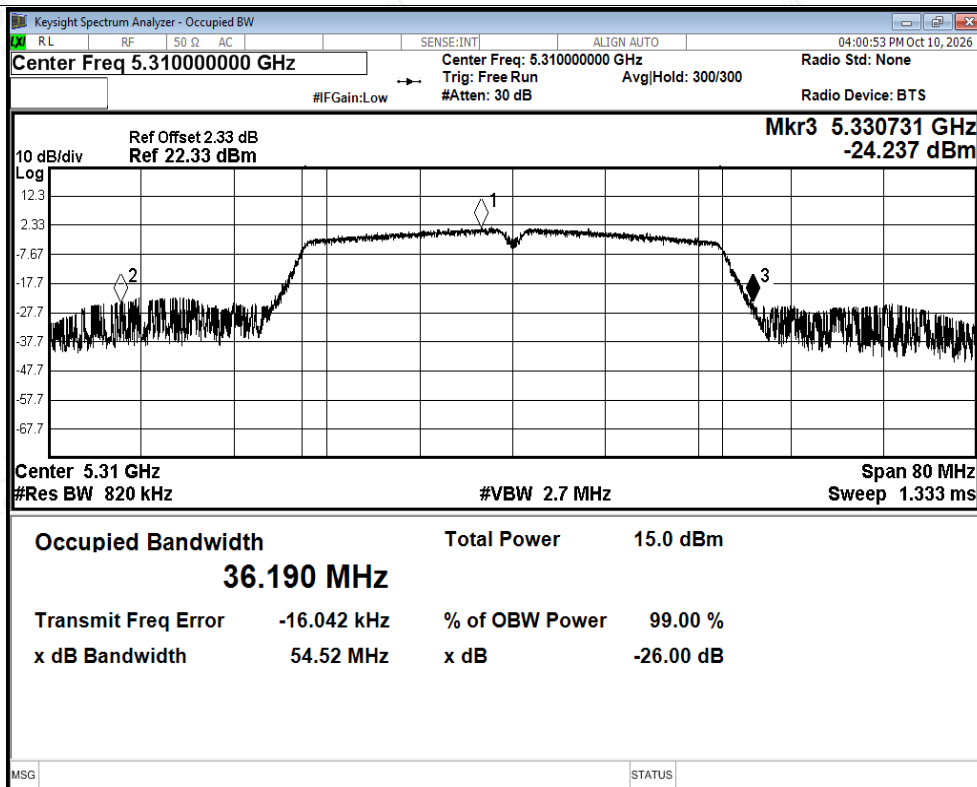
-26dB Bandwidth NVNT n20 5280MHz Ant1



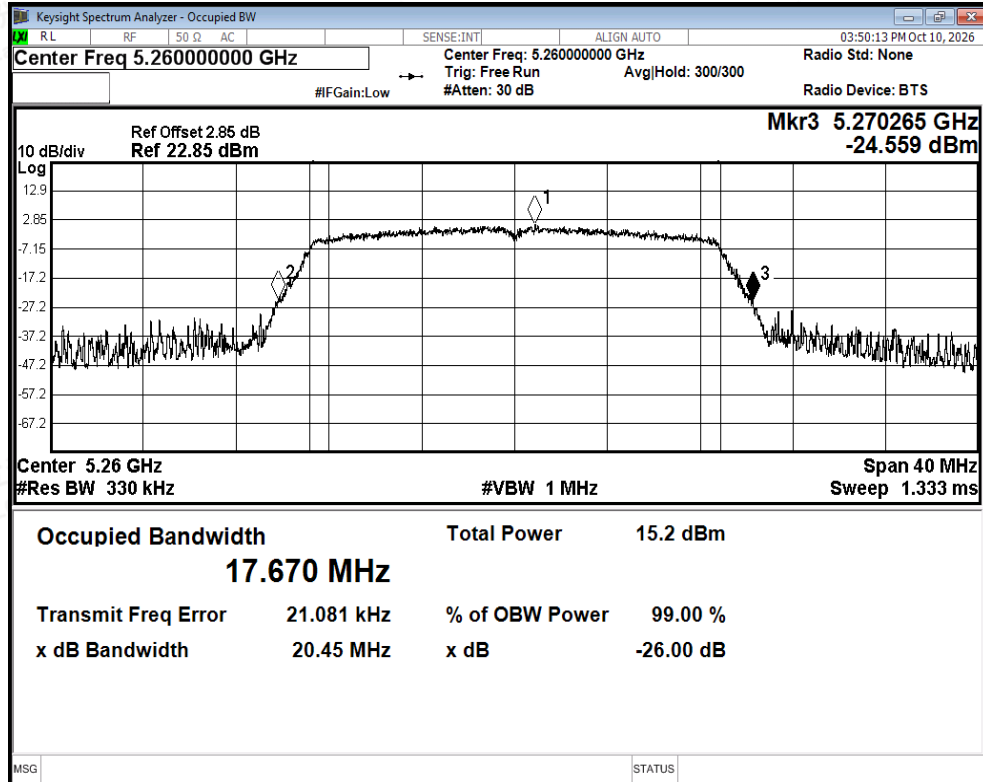
-26dB Bandwidth NVNT n20 5320MHz Ant1



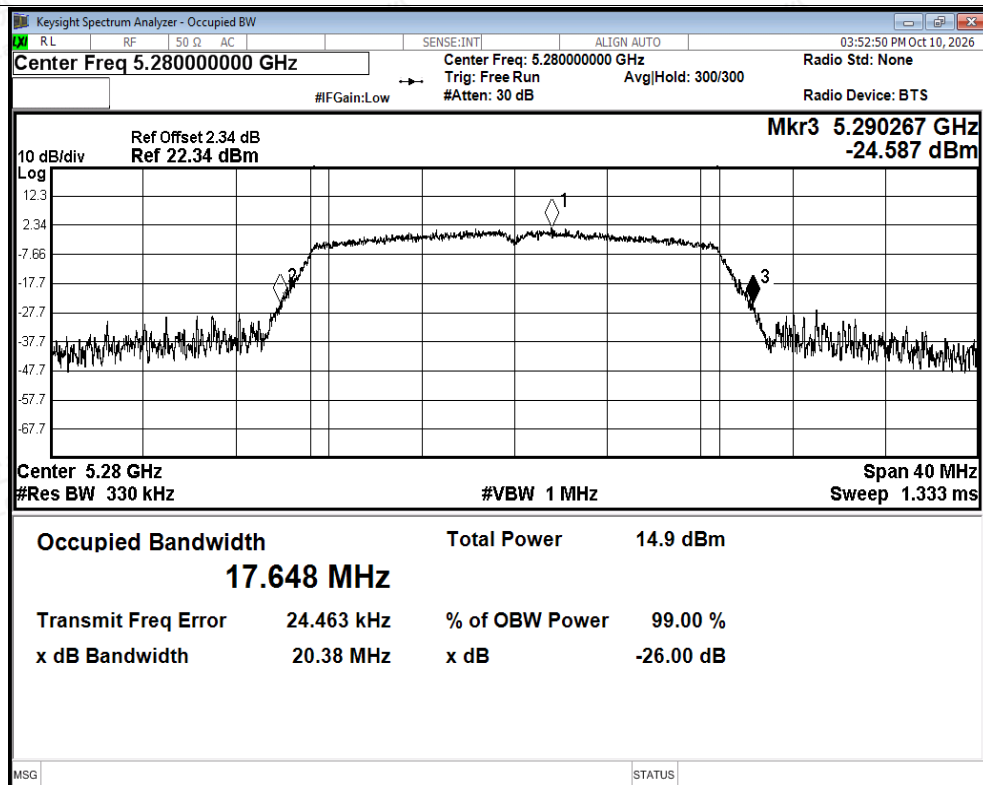
-26dB Bandwidth NVNT n40 5270MHz Ant1



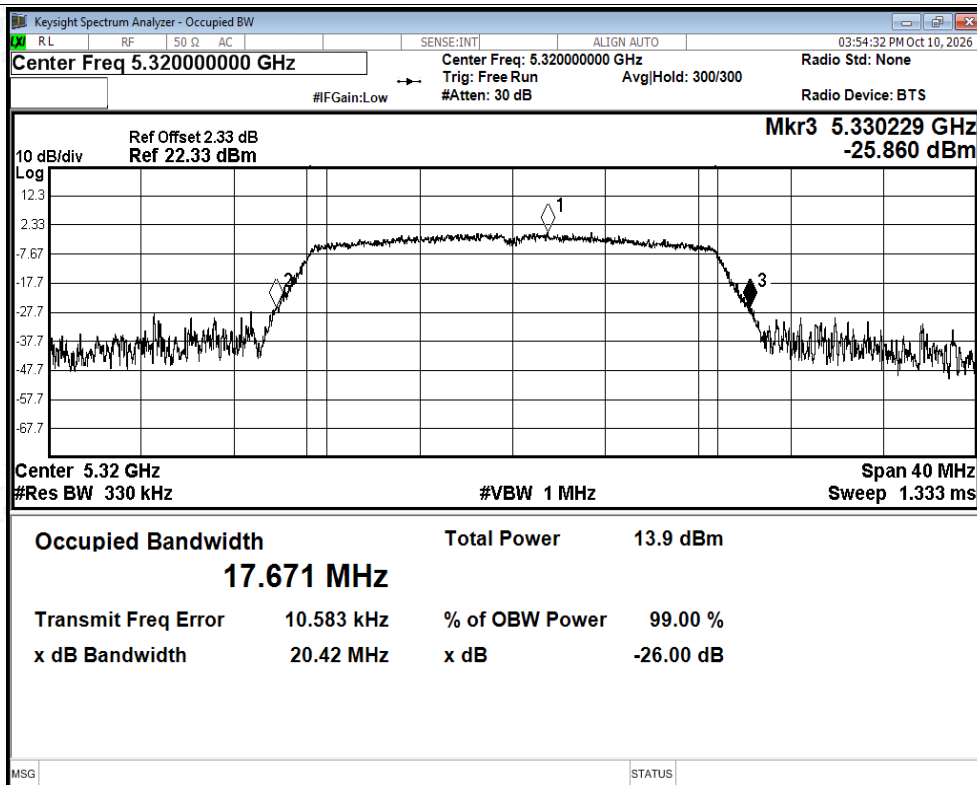
-26dB Bandwidth NVNT n40 5310MHz Ant1



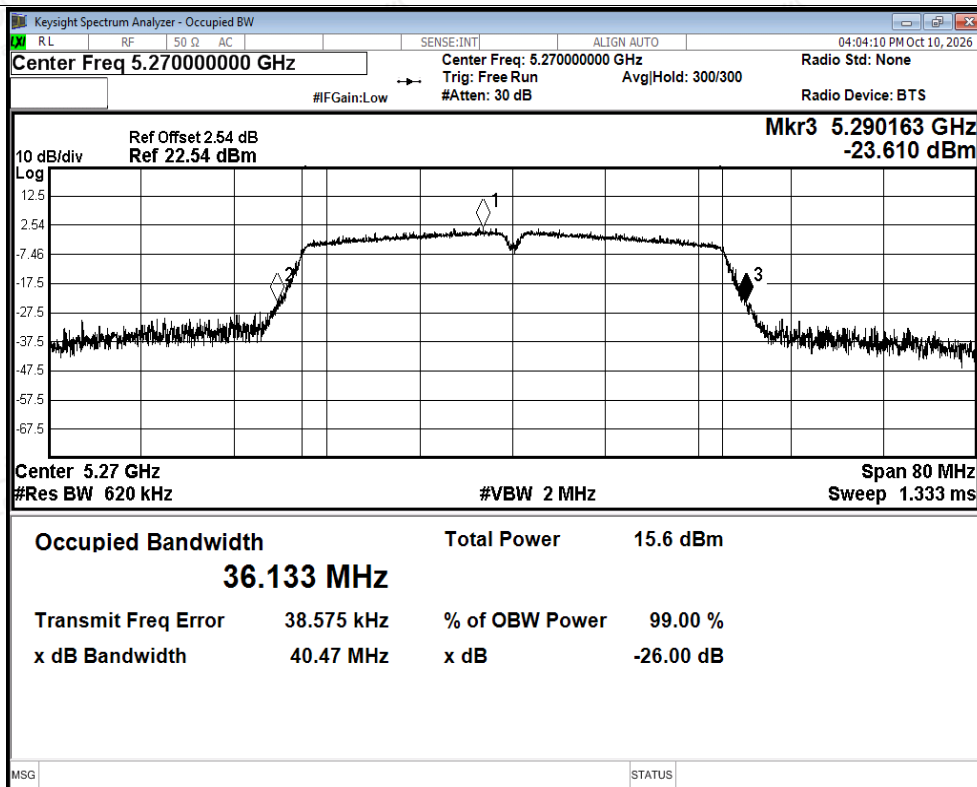
-26dB Bandwidth NVNT ac20 5260MHz Ant1



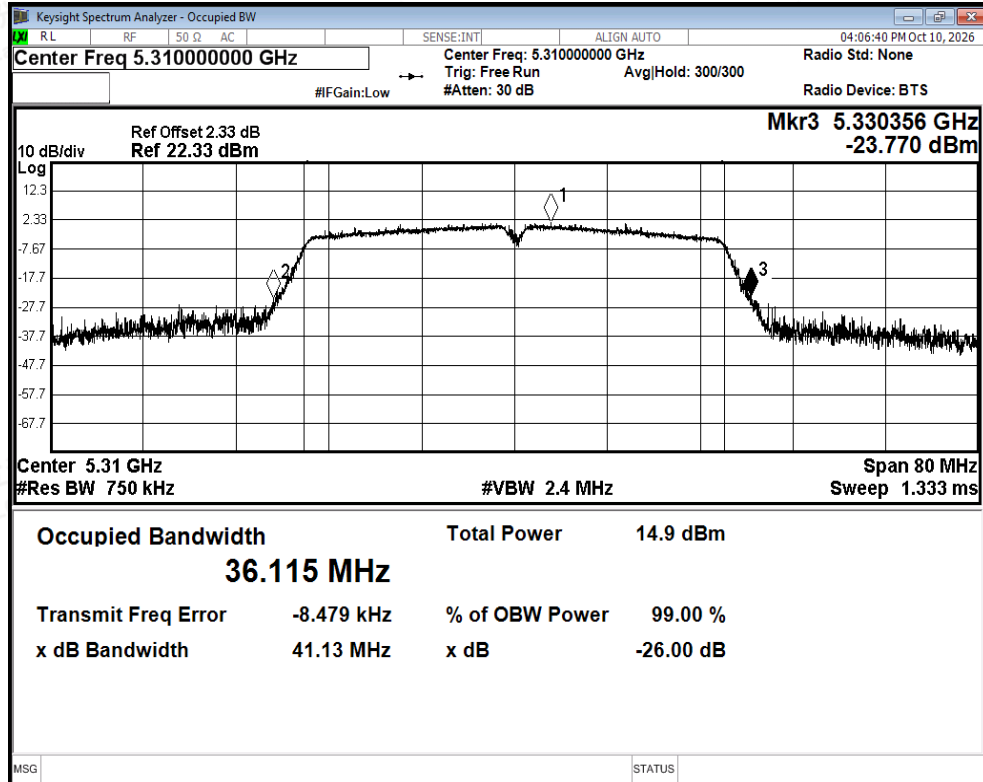
-26dB Bandwidth NVNT ac20 5280MHz Ant1



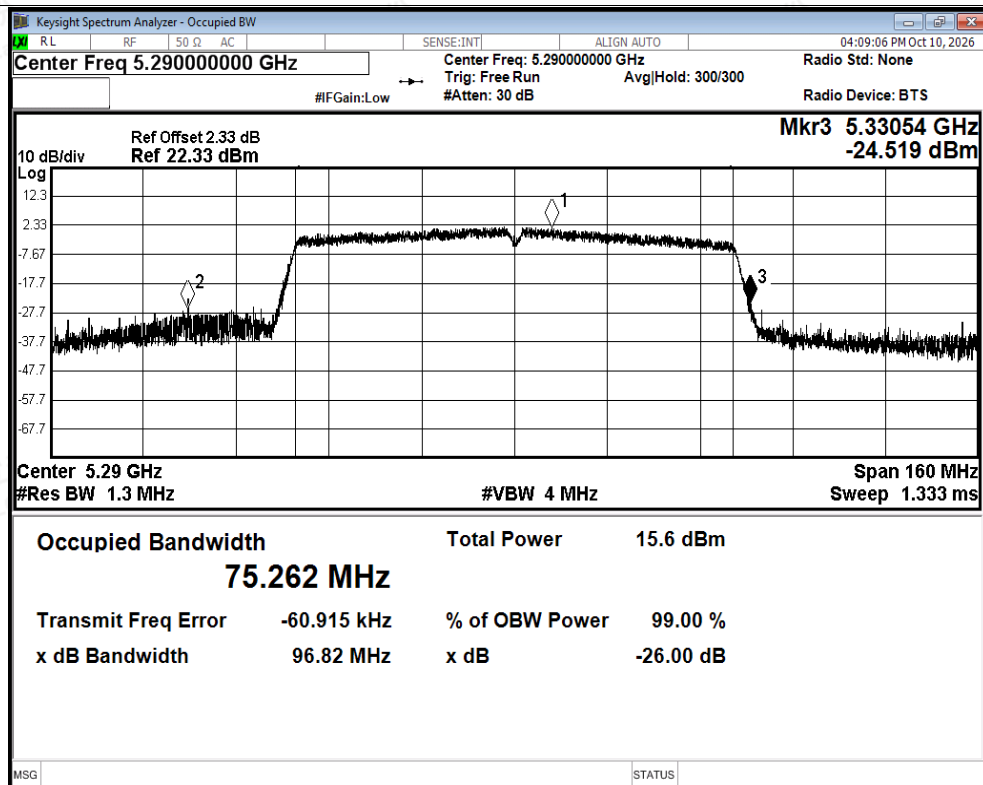
-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



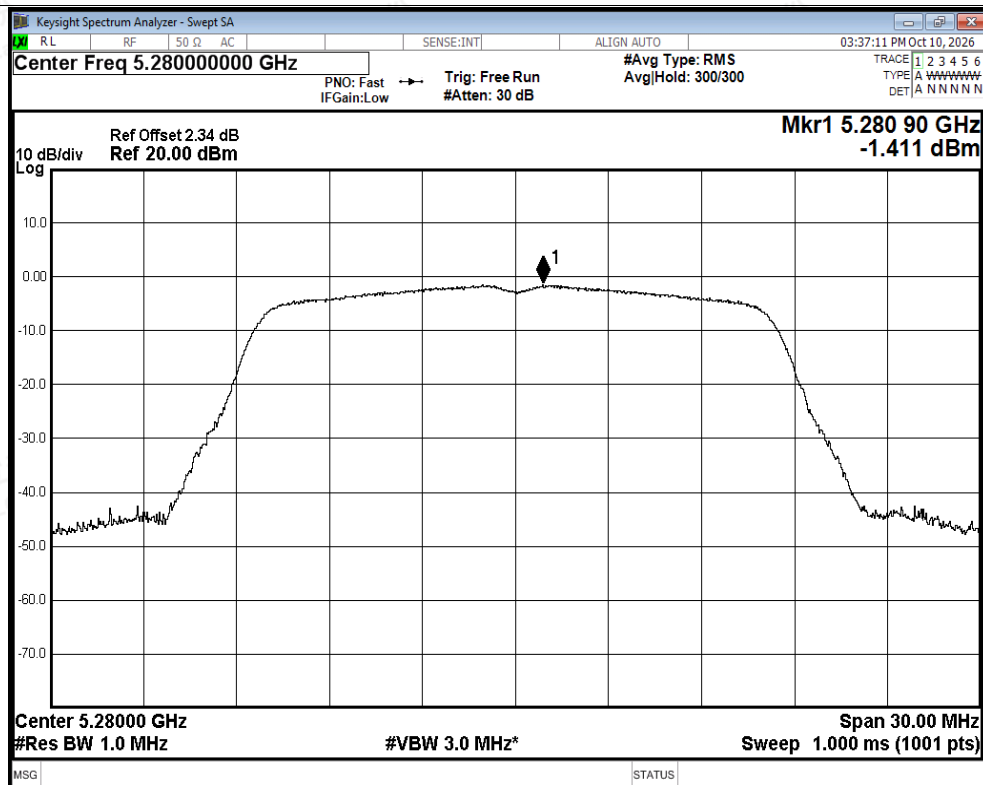
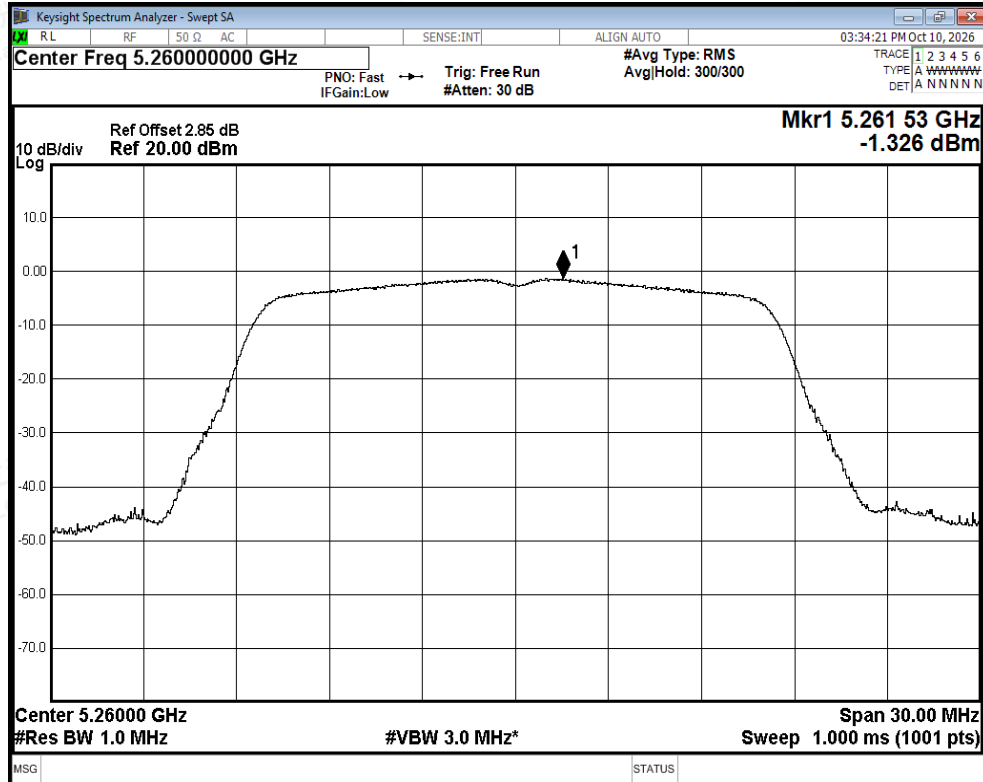
E.2 Maximum Conducted Output Power

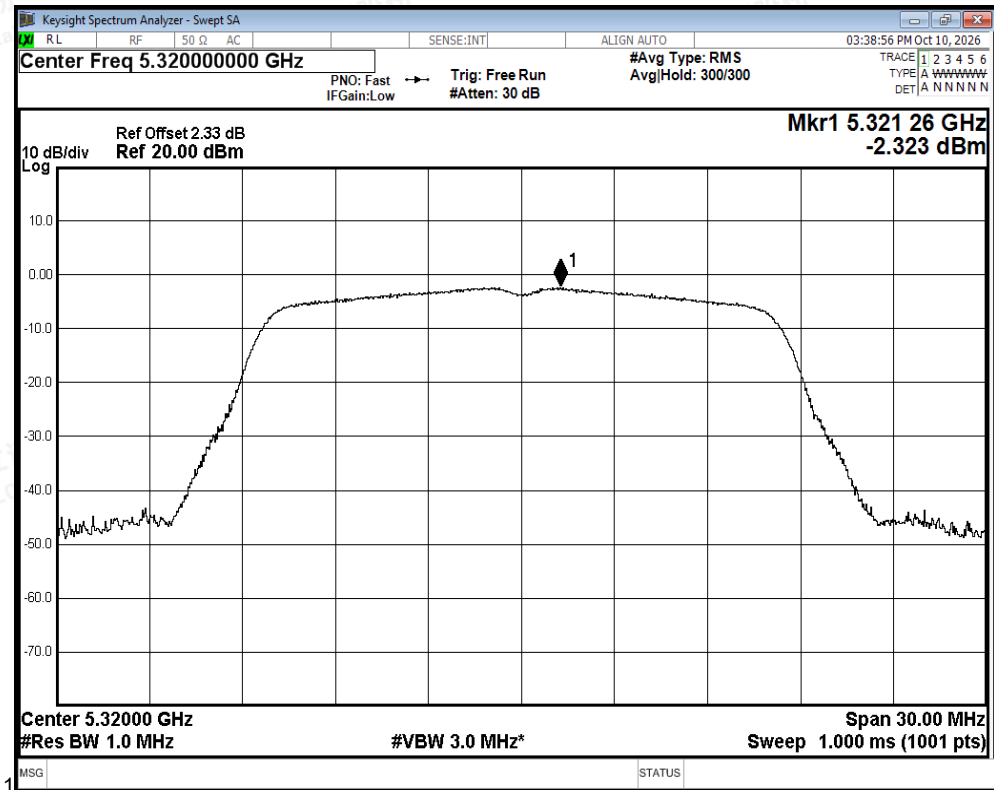
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5260	Ant1	13	0.12	13.12	24	Pass
NVNT	a	5280	Ant1	12.71	0.09	12.80	24	Pass
NVNT	a	5320	Ant1	11.88	0.12	12.00	24	Pass
NVNT	n20	5260	Ant1	12.94	0.13	13.07	24	Pass
NVNT	n20	5280	Ant1	12.59	0.1	12.69	24	Pass
NVNT	n20	5320	Ant1	11.6	0.1	11.70	24	Pass
NVNT	n40	5270	Ant1	12.6	0.2	12.80	24	Pass
NVNT	n40	5310	Ant1	12.03	0.2	12.23	24	Pass
NVNT	ac20	5260	Ant1	12.96	0.13	13.09	24	Pass
NVNT	ac20	5280	Ant1	12.57	0.1	12.67	24	Pass
NVNT	ac20	5320	Ant1	11.6	0.13	11.73	24	Pass
NVNT	ac40	5270	Ant1	13.14	0.19	13.33	24	Pass
NVNT	ac40	5310	Ant1	12.08	0.26	12.34	24	Pass
NVNT	ac80	5290	Ant1	11.77	0.51	12.28	24	Pass



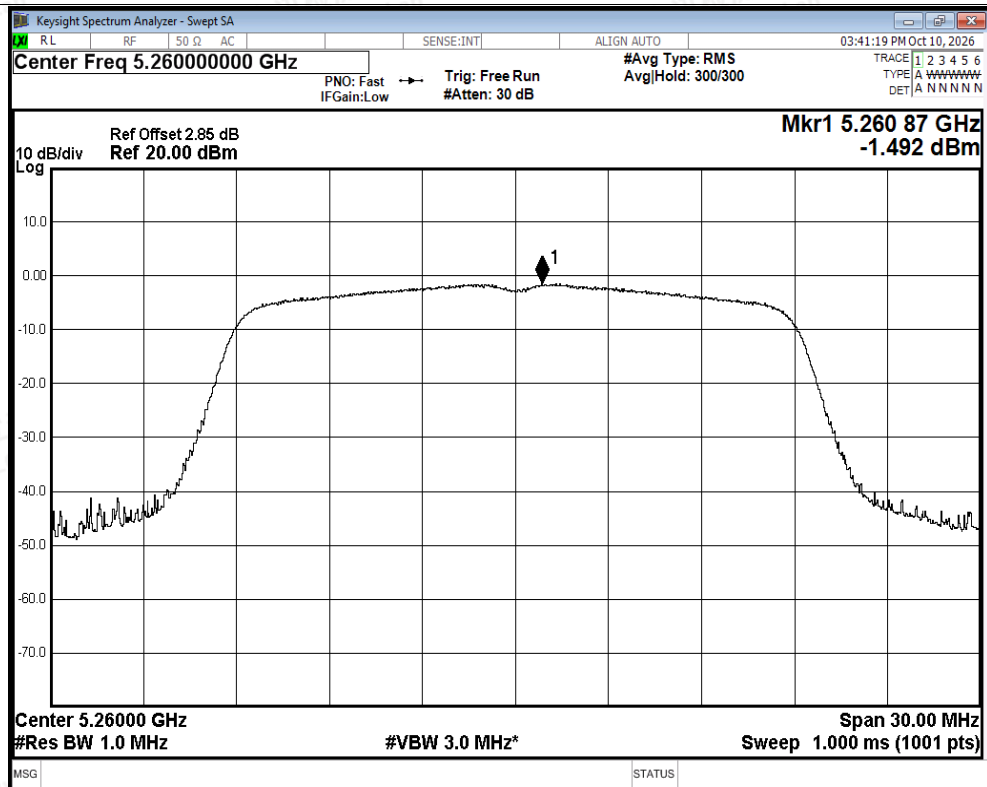
E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total Conducted PSD (dBm/MHz)	Limit Conducted(dBm/MHz)	Verdict
NVNT	a	5260	Ant1	-1.33	0.12	-1.21	11	Pass
NVNT	a	5280	Ant1	-1.41	0.09	-1.32	11	Pass
NVNT	a	5320	Ant1	-2.32	0.12	-2.2	11	Pass
NVNT	n20	5260	Ant1	-1.49	0.13	-1.36	11	Pass
NVNT	n20	5280	Ant1	-1.81	0.1	-1.71	11	Pass
NVNT	n20	5320	Ant1	-2.82	0.1	-2.72	11	Pass
NVNT	n40	5270	Ant1	-4.96	0.2	-4.76	11	Pass
NVNT	n40	5310	Ant1	-5.43	0.2	-5.23	11	Pass
NVNT	ac20	5260	Ant1	-1.47	0.13	-1.34	11	Pass
NVNT	ac20	5280	Ant1	-1.81	0.1	-1.71	11	Pass
NVNT	ac20	5320	Ant1	-2.62	0.13	-2.49	11	Pass
NVNT	ac40	5270	Ant1	-4.2	0.19	-4.01	11	Pass
NVNT	ac40	5310	Ant1	-5.36	0.26	-5.1	11	Pass
NVNT	ac80	5290	Ant1	-8.71	0.51	-8.2	11	Pass





PSD NVNT a 5320MHz Ant1

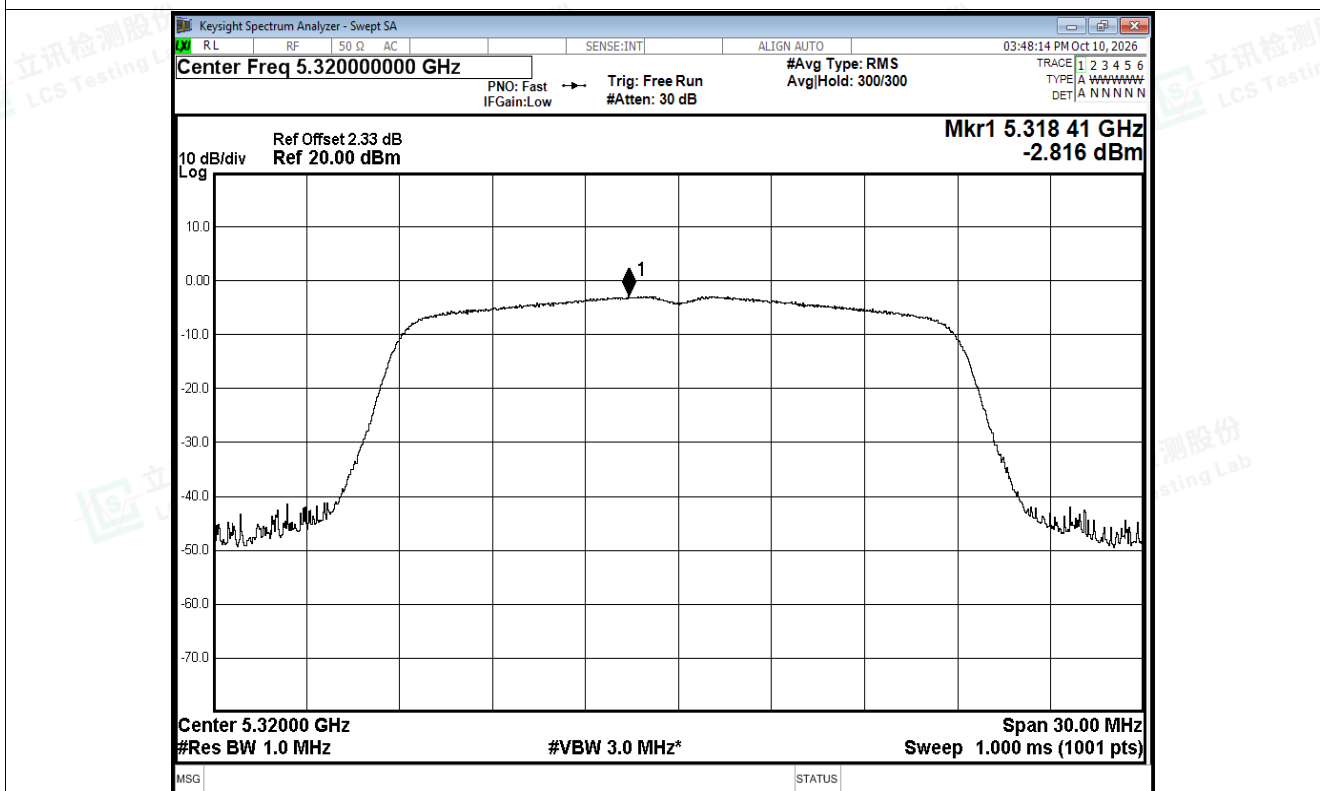
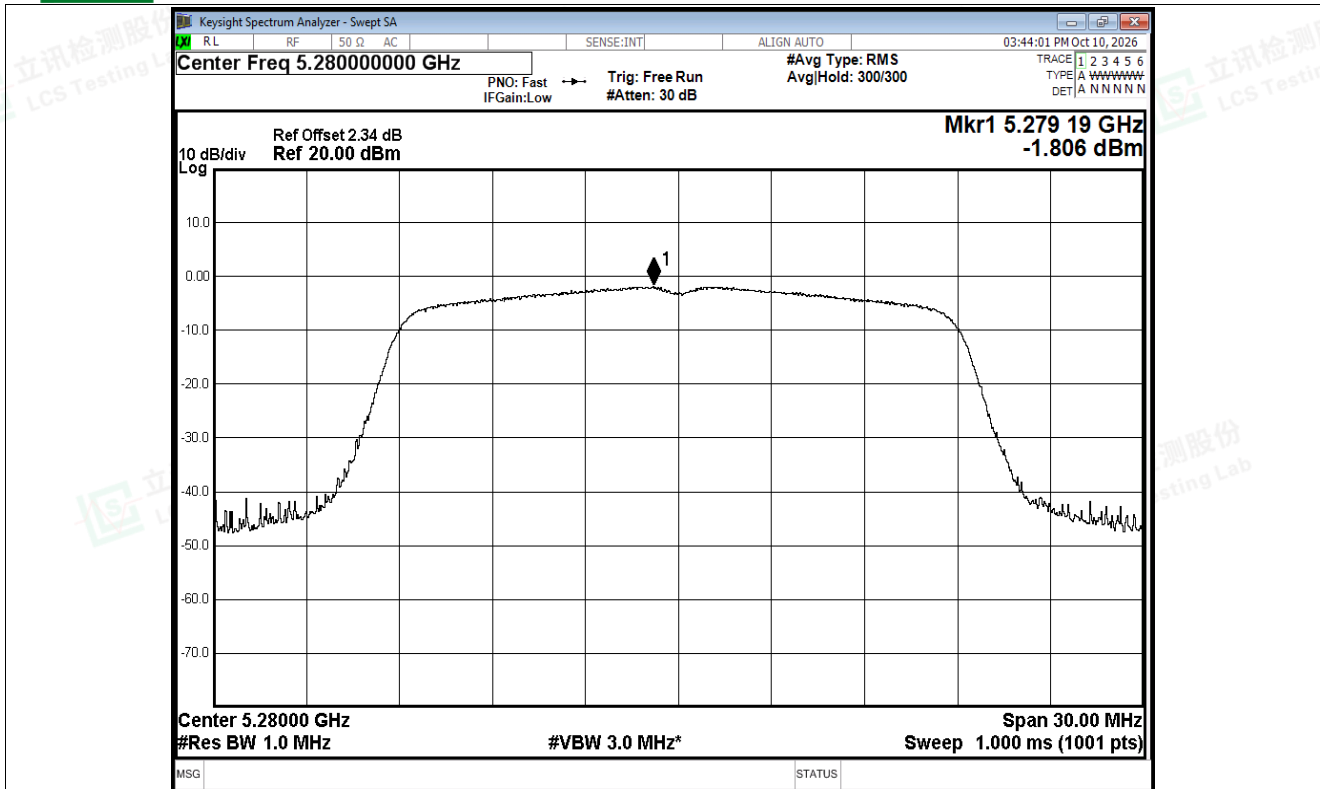


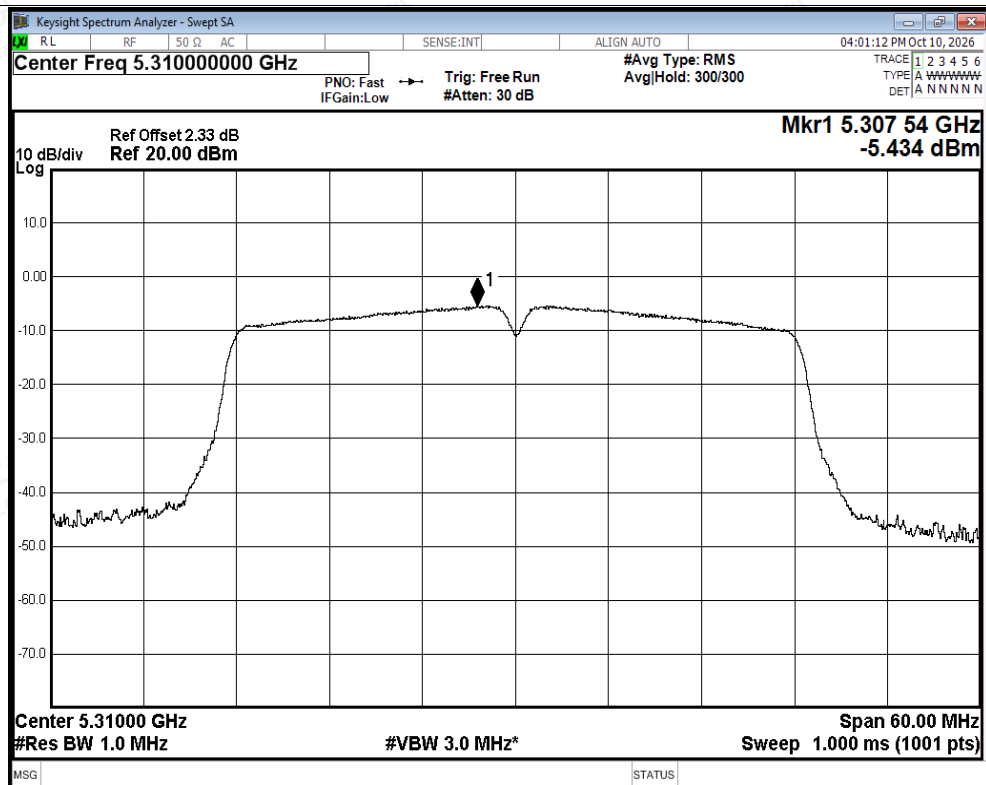
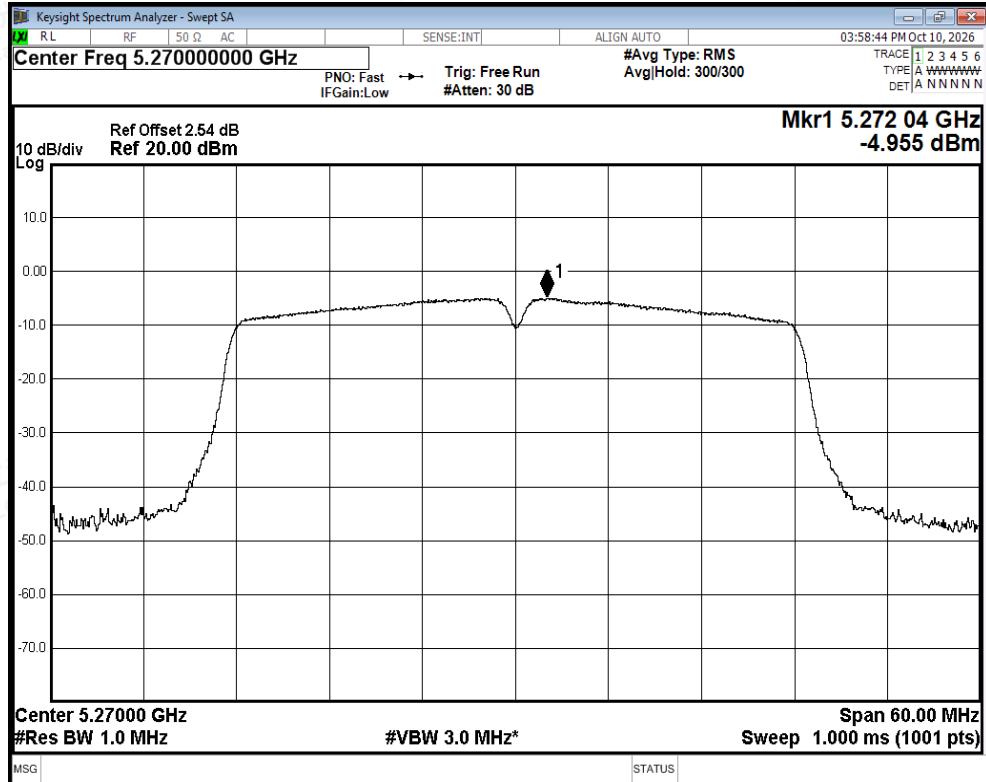
PSD NVNT n20 5260MHz Ant1

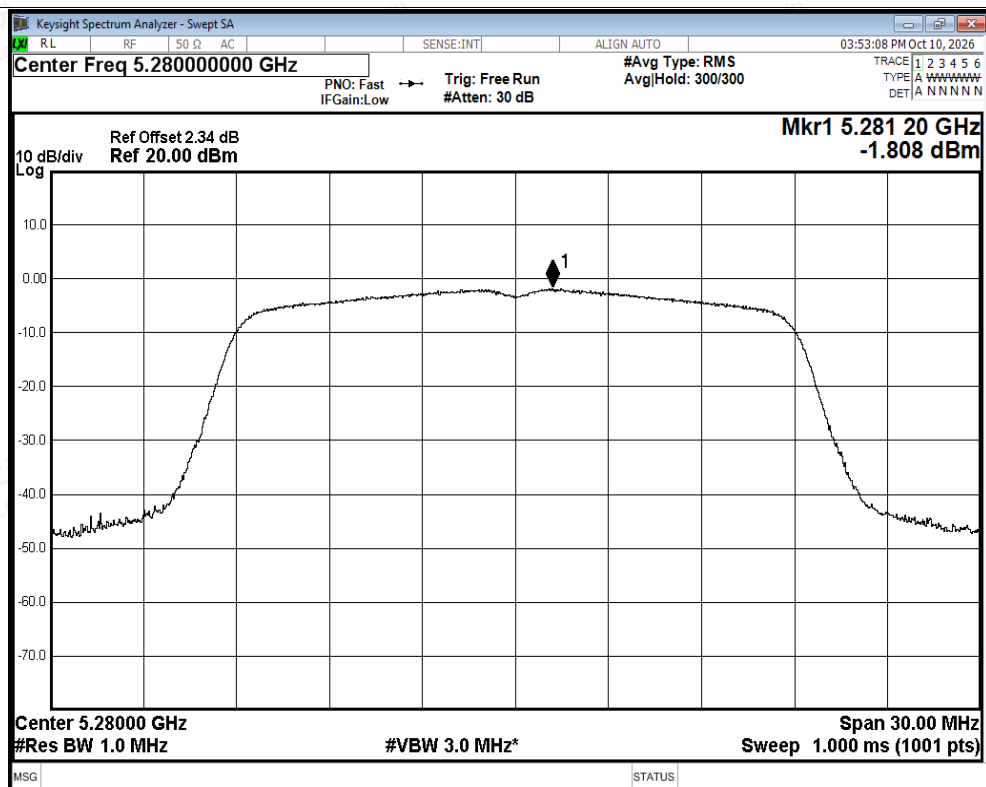
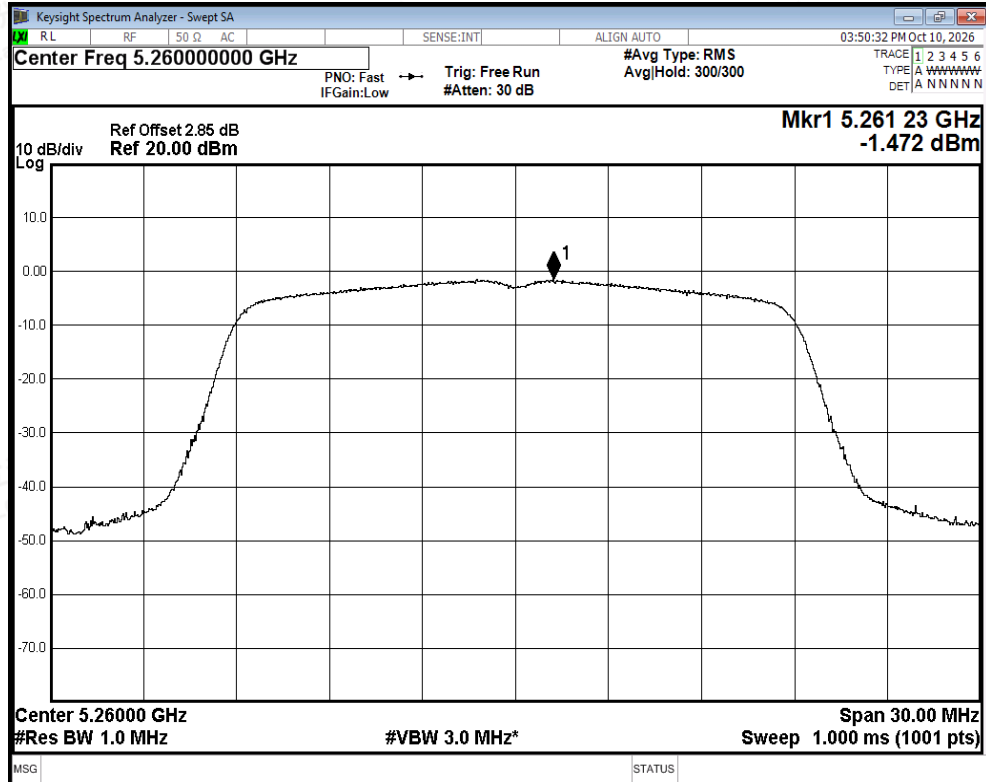
Shenzhen LCS Compliance Testing Laboratory Ltd.

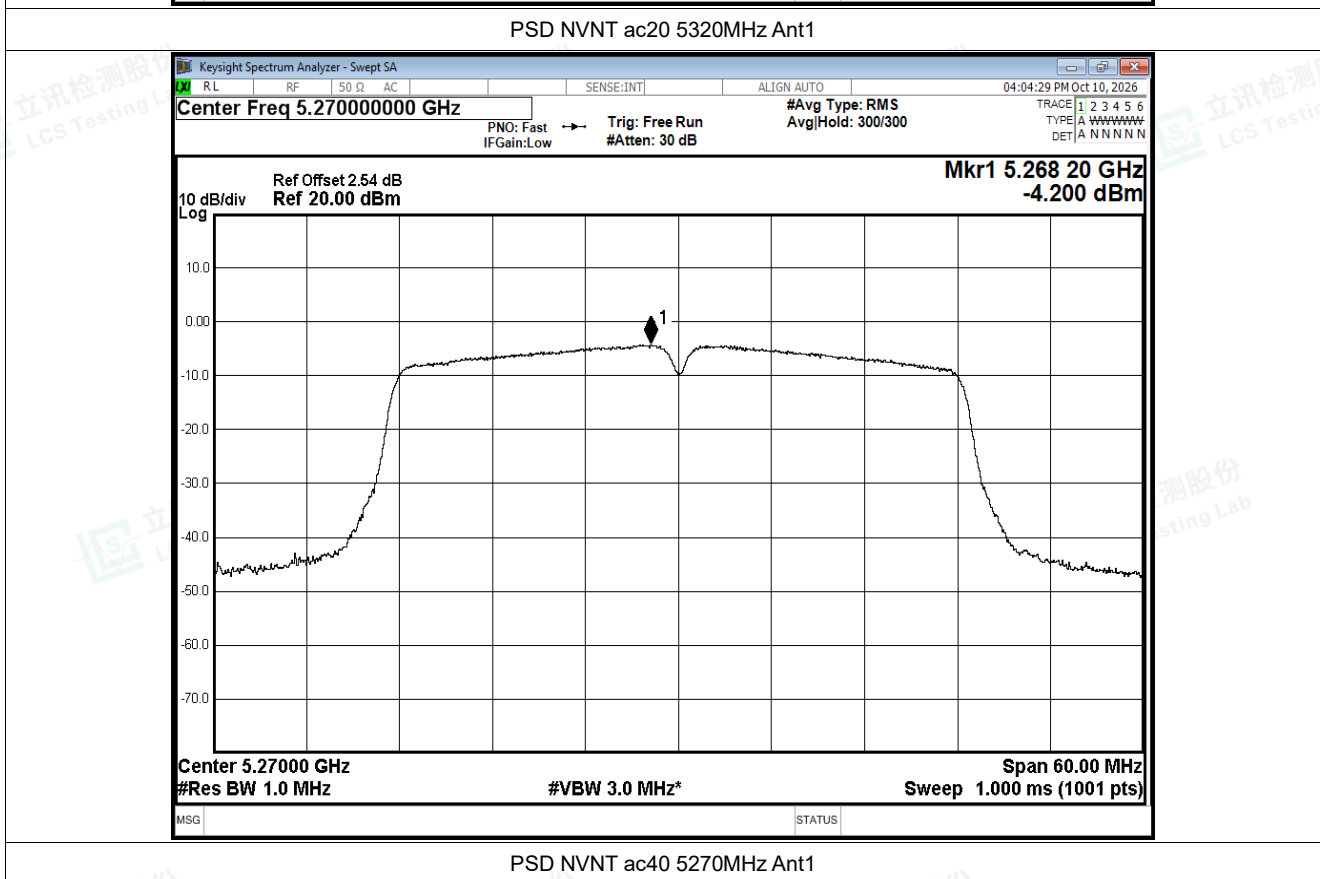
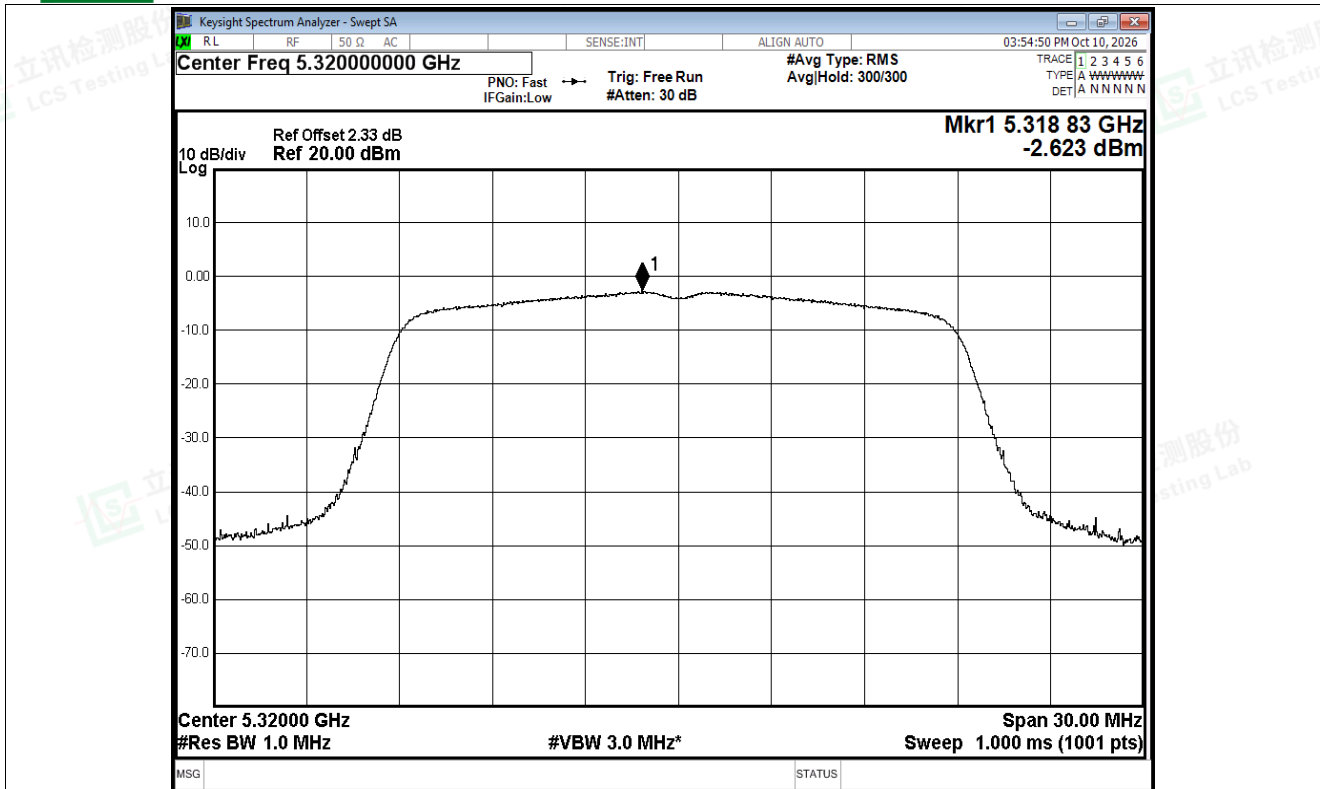
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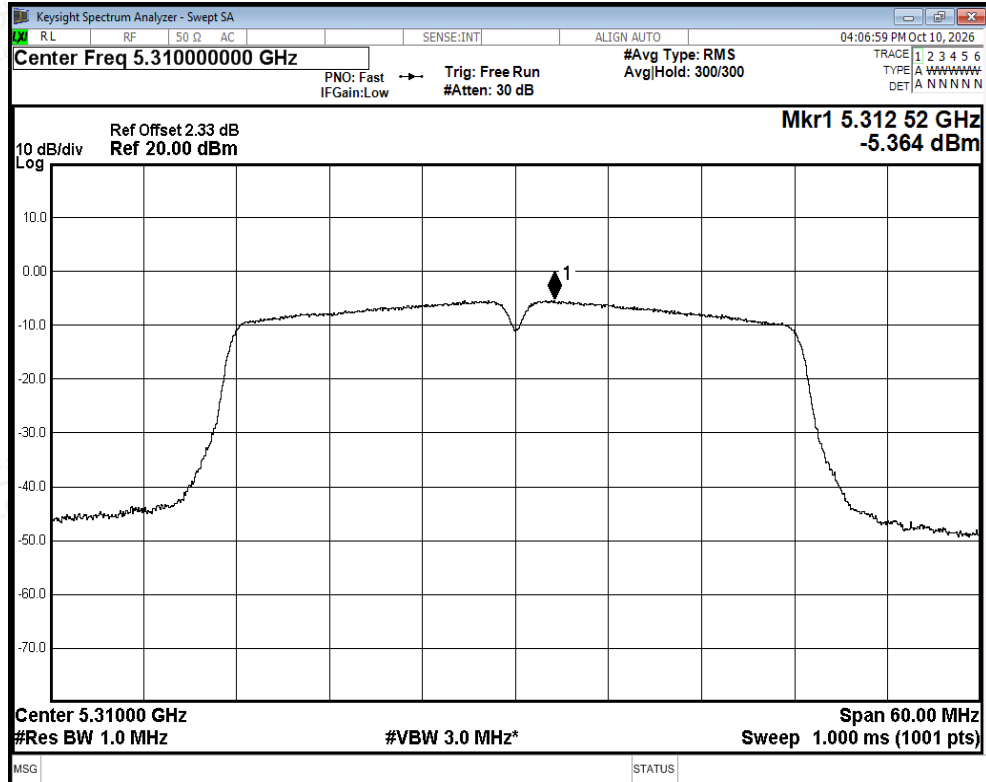




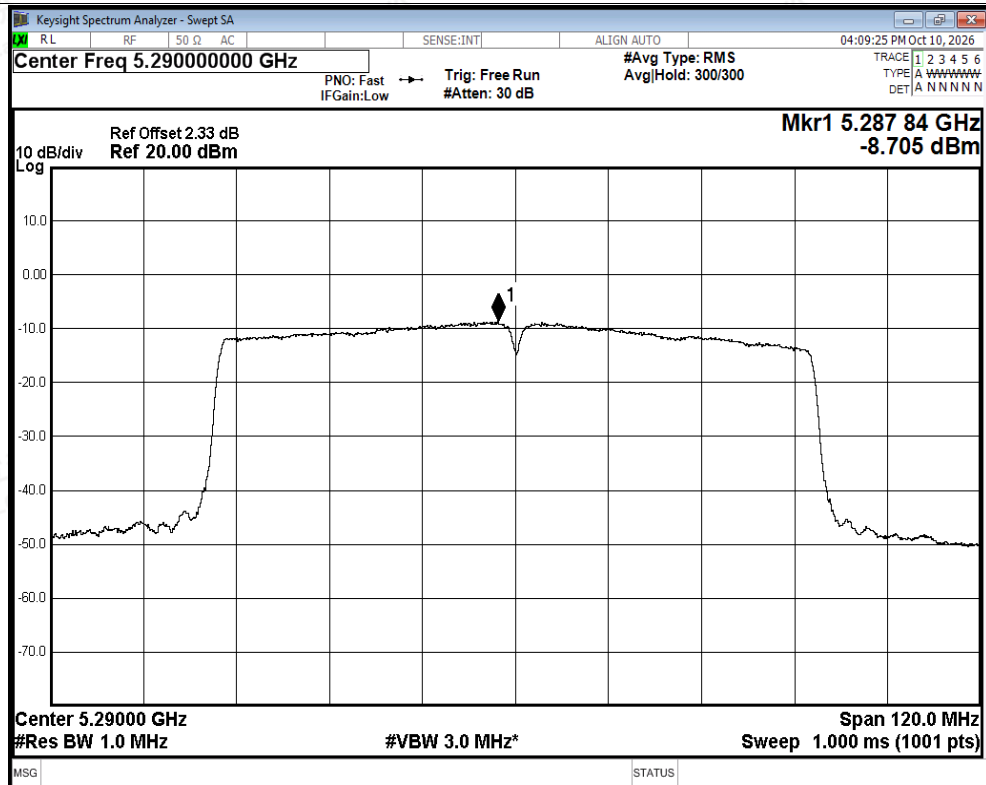
Shenzhen LCS Compliance Testing Laboratory Ltd.

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PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac80 5290MHz Ant1



E.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	5260	Ant1	4500	-52	2	45.23	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-58.96	2	38.27	Average	54	Pass
NVNT	a	5260	Ant1	5052.24	-47.16	2	50.07	Peak	68.2	Pass
NVNT	a	5260	Ant1	5090.46	-56.63	2	40.6	Average	54	Pass
NVNT	a	5260	Ant1	5150	-49.74	2	47.49	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-56.97	2	40.26	Average	54	Pass
NVNT	a	5320	Ant1	5350	-43.11	2	54.12	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-54.23	2	43	Average	54	Pass
NVNT	a	5320	Ant1	5350.8	-37.14	2	60.09	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-54.23	2	43	Average	54	Pass
NVNT	a	5320	Ant1	5460	-50.67	2	46.56	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.72	2	39.51	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-51.7	2	45.53	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-58.96	2	38.27	Average	54	Pass
NVNT	n20	5260	Ant1	5072.52	-46.98	2	50.25	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5090.46	-56.38	2	40.85	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-50.1	2	47.13	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-56.77	2	40.46	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-43.86	2	53.37	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-53.94	2	43.29	Average	54	Pass
NVNT	n20	5320	Ant1	5350.2	-39.35	2	57.88	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-53.94	2	43.29	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-50.35	2	46.88	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-57.64	2	39.59	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-51.8	2	45.43	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-59.13	2	38.1	Average	54	Pass
NVNT	n40	5270	Ant1	5070.24	-45.21	2	52.02	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5071.05	-56.56	2	40.67	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-50.92	2	46.31	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-57.06	2	40.17	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-38.53	2	58.7	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-47.73	2	49.5	Average	54	Pass
NVNT	n40	5310	Ant1	5353	-35.08	2	62.15	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-47.73	2	49.5	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-51.21	2	46.02	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-57.46	2	39.77	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-51.19	2	46.04	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-59	2	38.23	Average	54	Pass

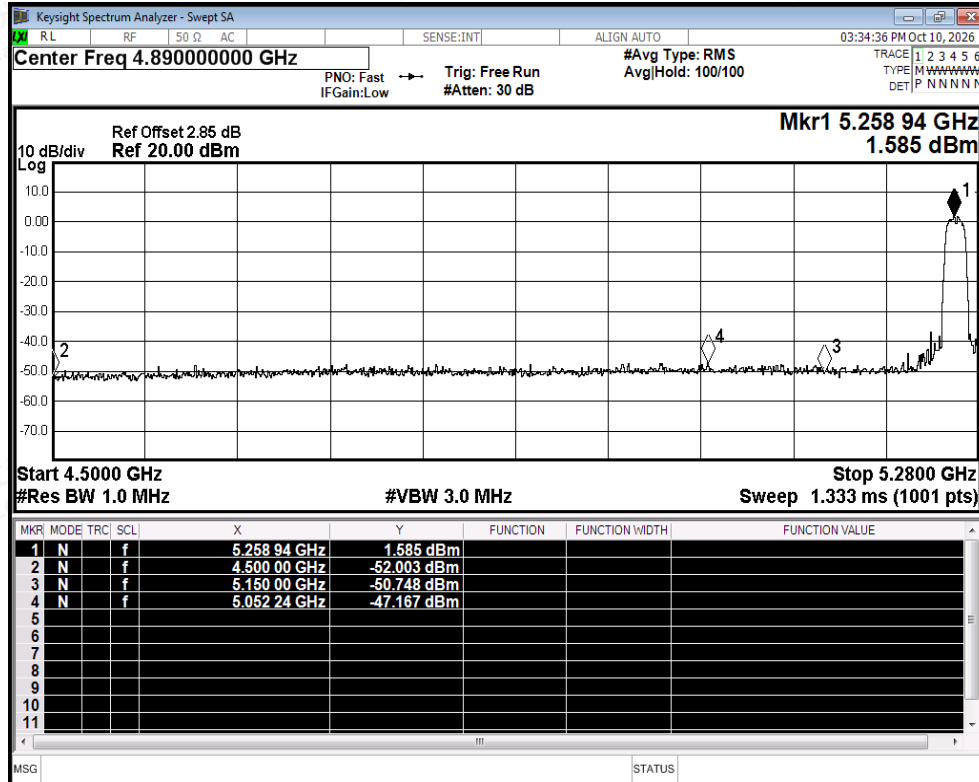
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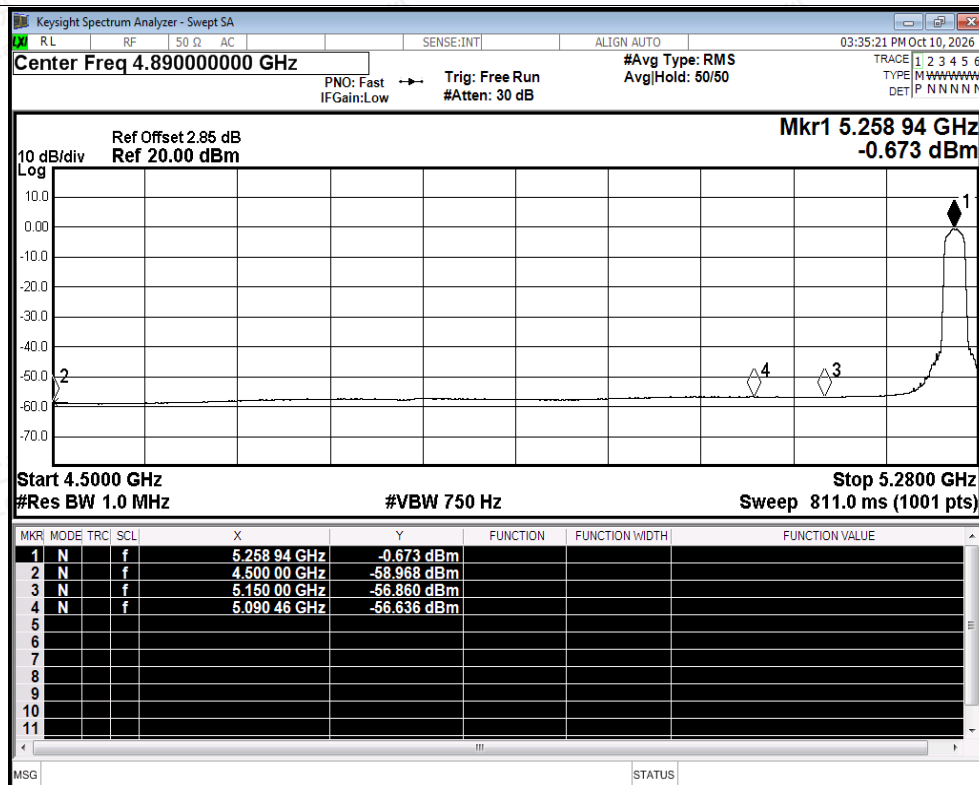
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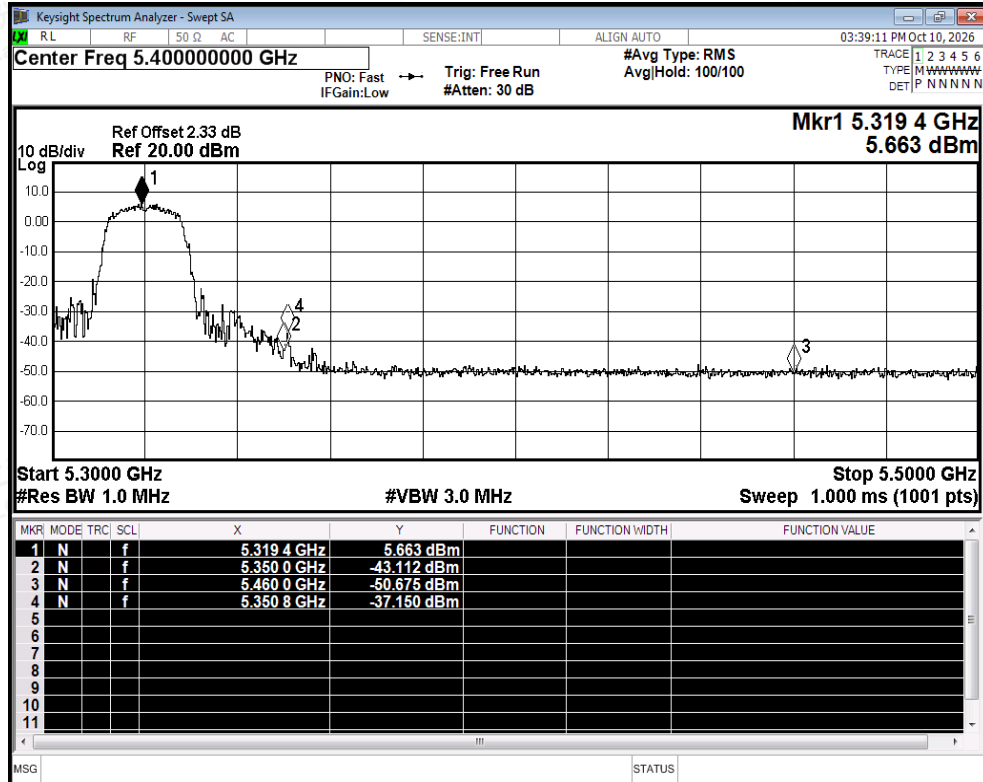
NVNT	ac20	5260	Ant1	5014.8	-47.54	2	49.69	Peak	68.2	Pass
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NVNT	ac20	5260	Ant1	5150	-51.08	2	46.15	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-56.85	2	40.38	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-38.49	2	58.74	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-54.04	2	43.19	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-38.49	2	58.74	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-54.04	2	43.19	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-50.46	2	46.77	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-57.65	2	39.58	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-51.57	2	45.66	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-58.92	2	38.31	Average	54	Pass
NVNT	ac40	5270	Ant1	4892.04	-47.34	2	49.89	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5052.42	-56.63	2	40.6	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-49.97	2	47.26	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-56.94	2	40.29	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-35.22	2	62.01	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-48.73	2	48.5	Average	54	Pass
NVNT	ac40	5310	Ant1	5350.8	-34.88	2	62.35	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.4	-46.93	2	50.3	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-50.76	2	46.47	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-57.48	2	39.75	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-41.09	2	56.14	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-46.99	2	50.24	Average	54	Pass
NVNT	ac80	5290	Ant1	5354.5	-37.13	2	60.1	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-46.99	2	50.24	Average	54	Pass
NVNT	ac80	5290	Ant1	5460	-50.9	2	46.33	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-57.19	2	40.04	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-51.08	2	46.15	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-58.82	2	38.41	Average	54	Pass
NVNT	ac80	5290	Ant1	5083.77	-47.47	2	49.76	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5080.29	-56.23	2	41	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-49.47	2	47.76	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-56.53	2	40.7	Average	54	Pass



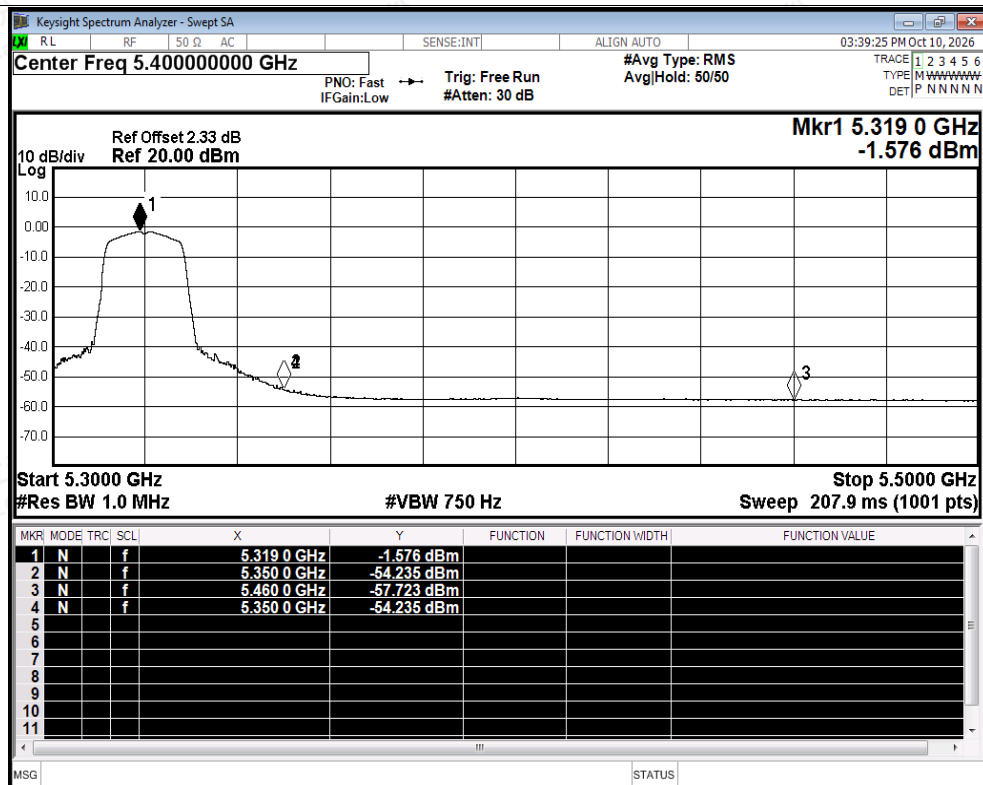
Restrict Band NVNT a 5260MHz Ant1 Peak



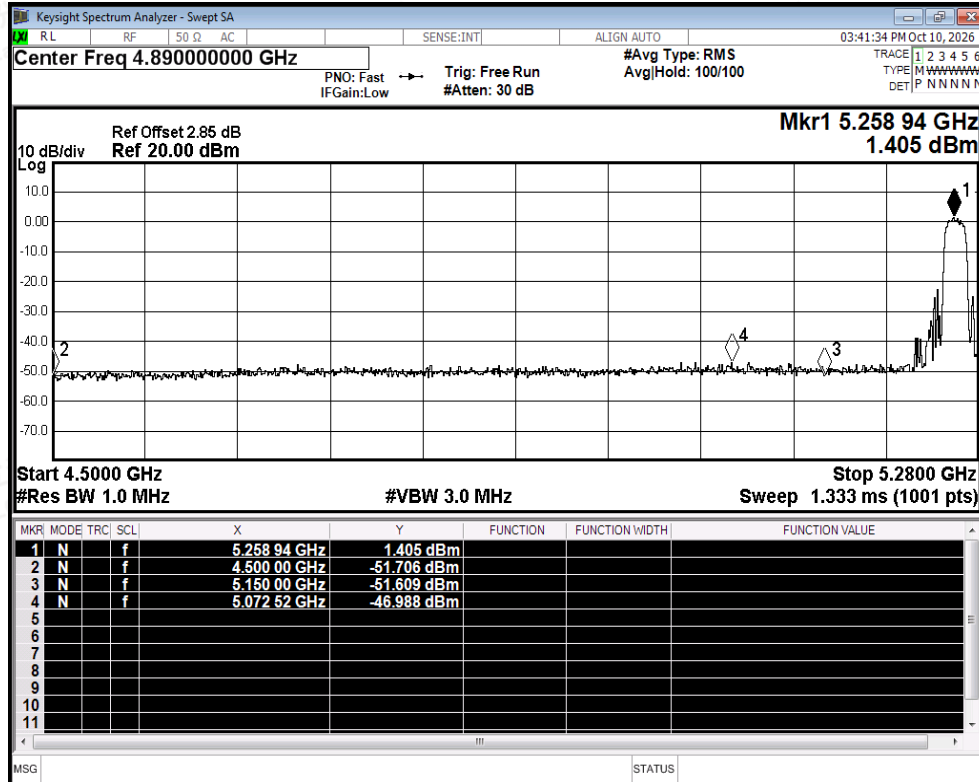
Restrict Band NVNT a 5260MHz Ant1 Average



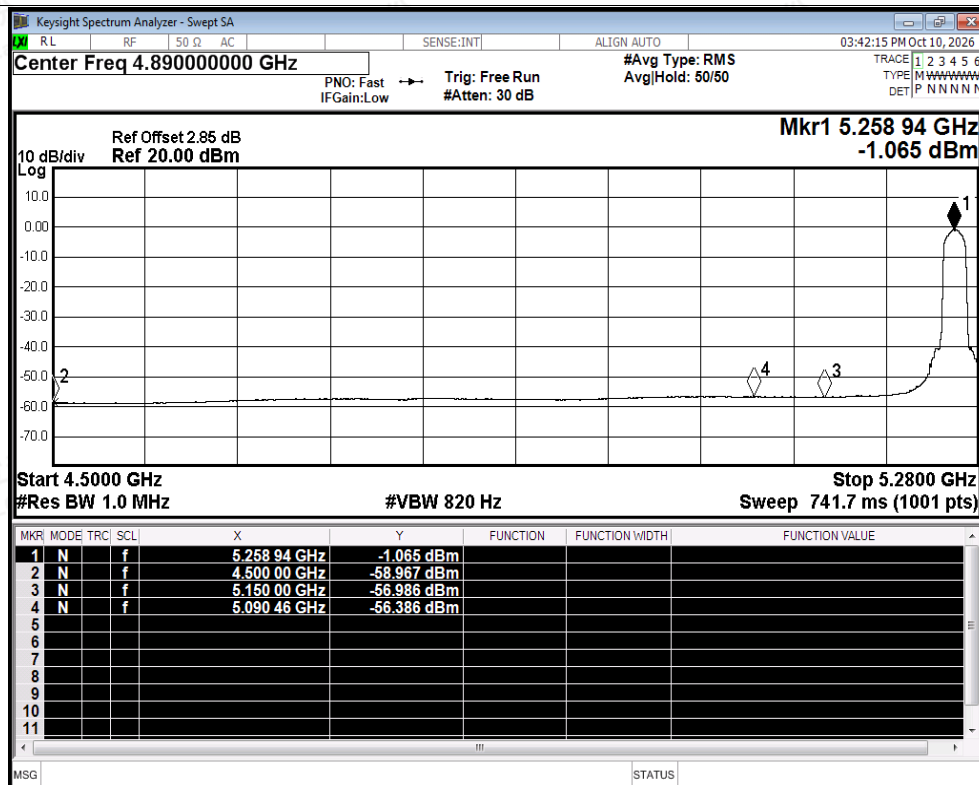
Restrict Band NVNT a 5320MHz Ant1 Peak



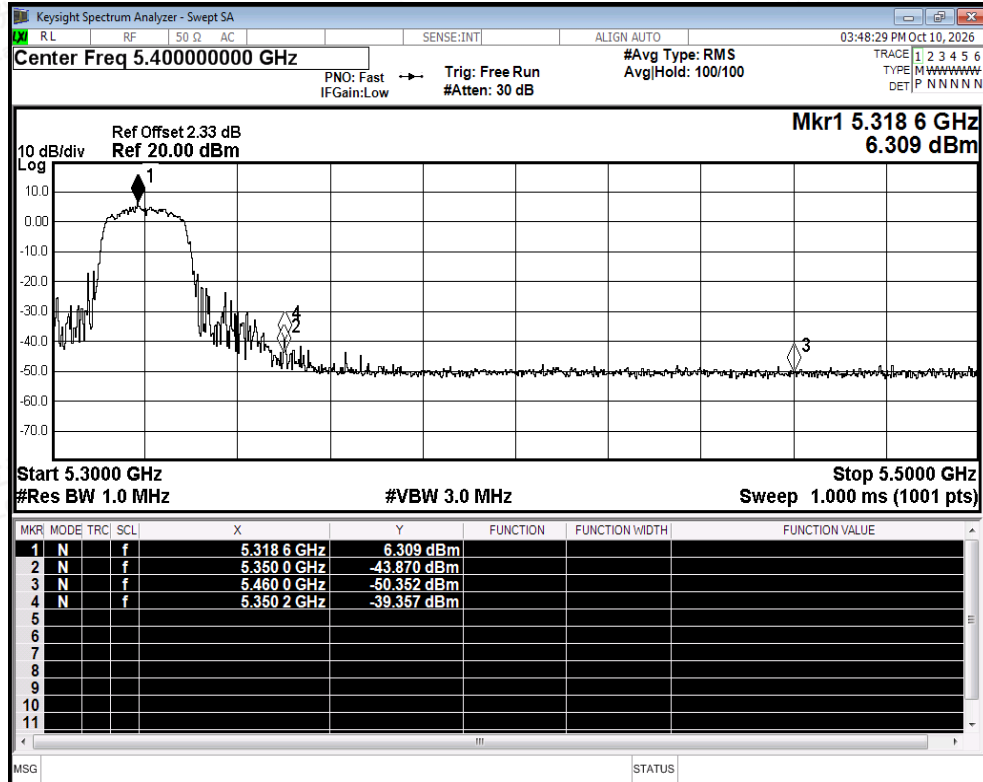
Restrict Band NVNT a 5320MHz Ant1 Average



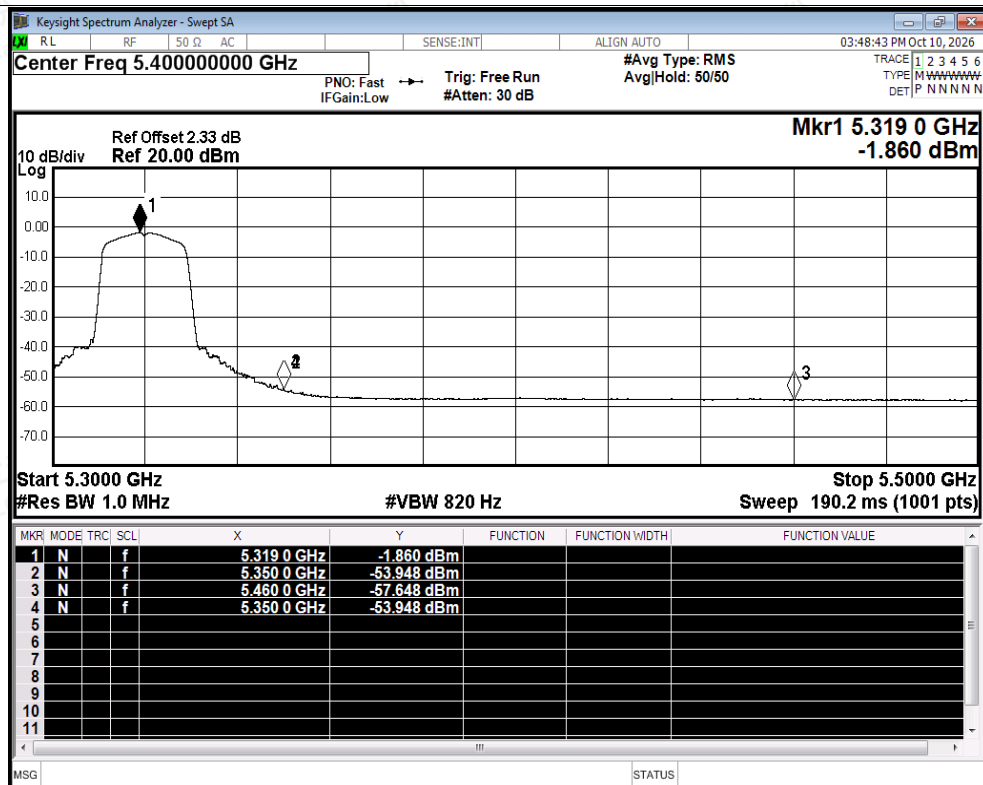
Restrict Band NVNT n20 5260MHz Ant1 Peak



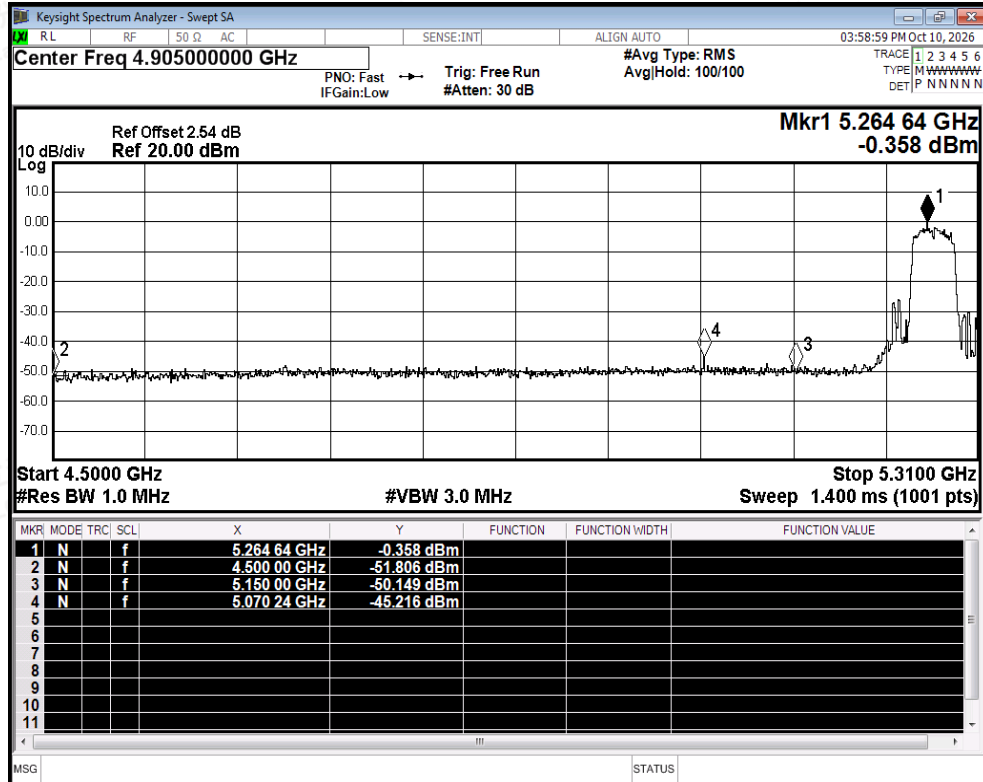
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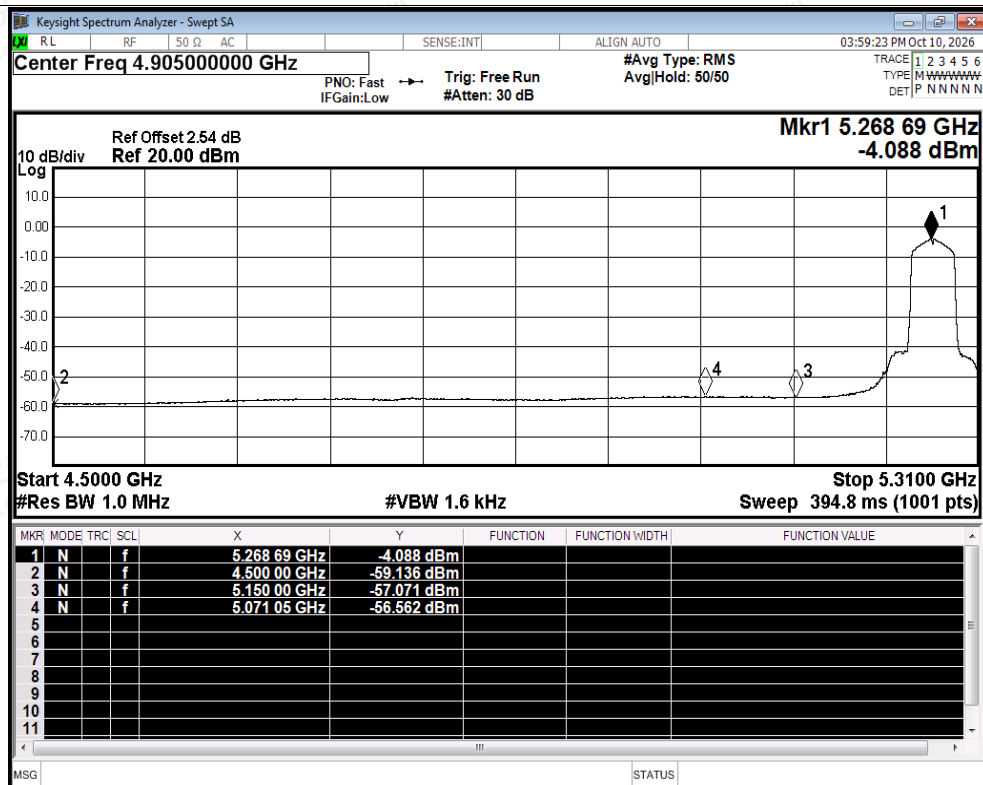
Restrict Band NVNT n20 5320MHz Ant1 Peak



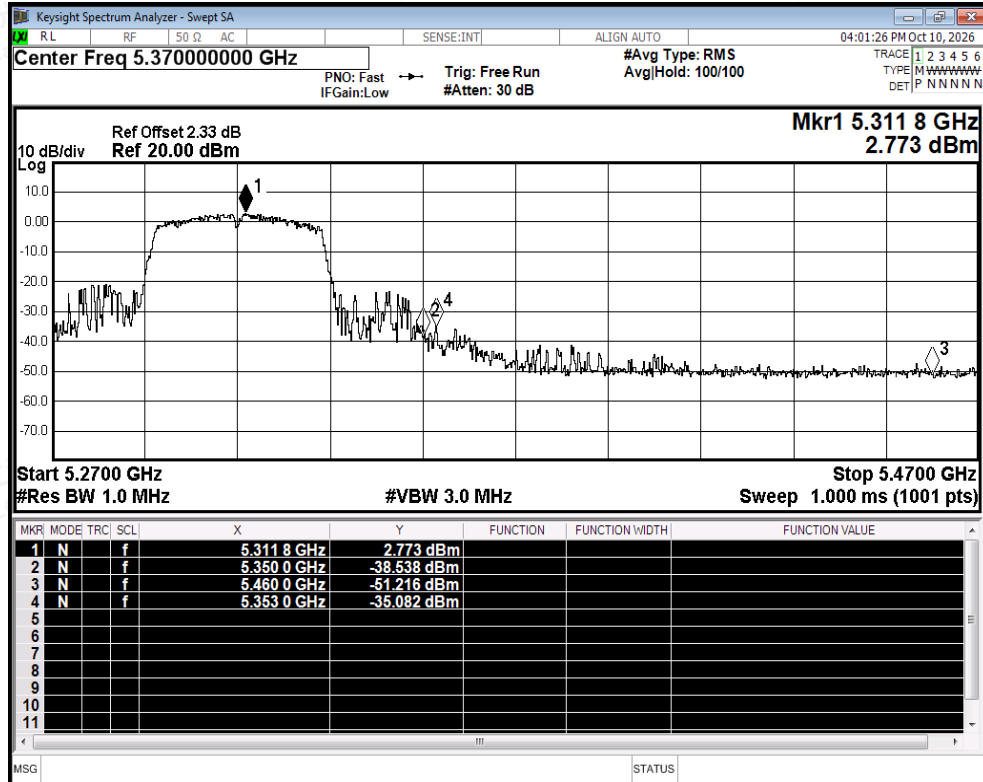
Restrict Band NVNT n20 5320MHz Ant1 Average



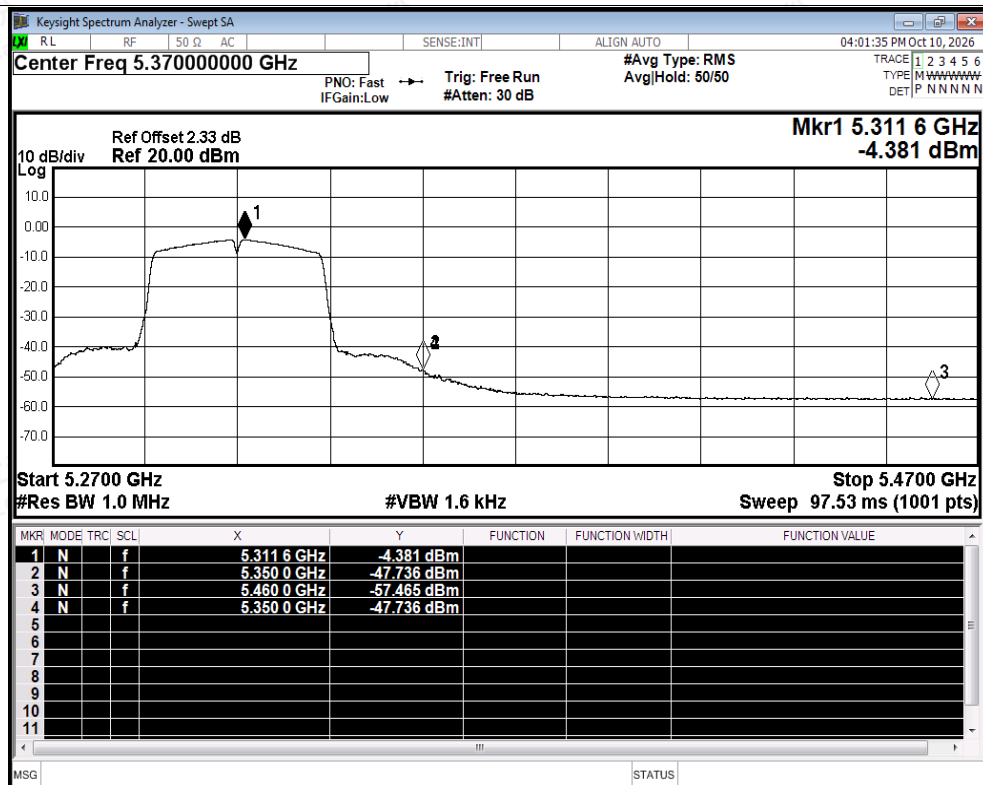
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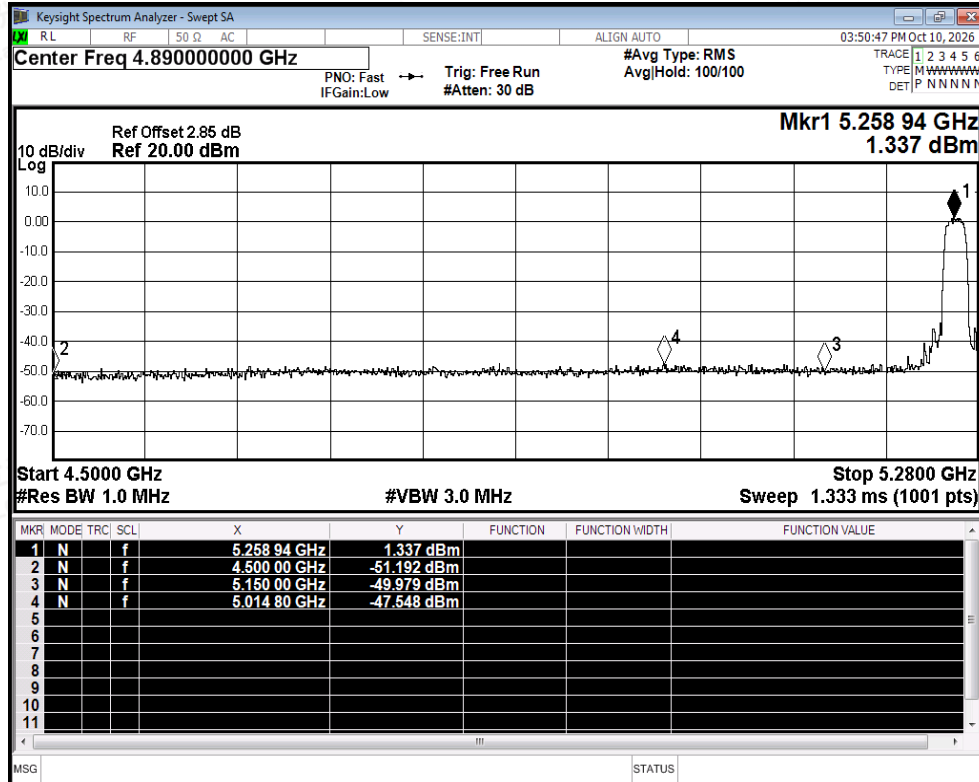
Restrict Band NVNT n40 5270MHz Ant1 Average



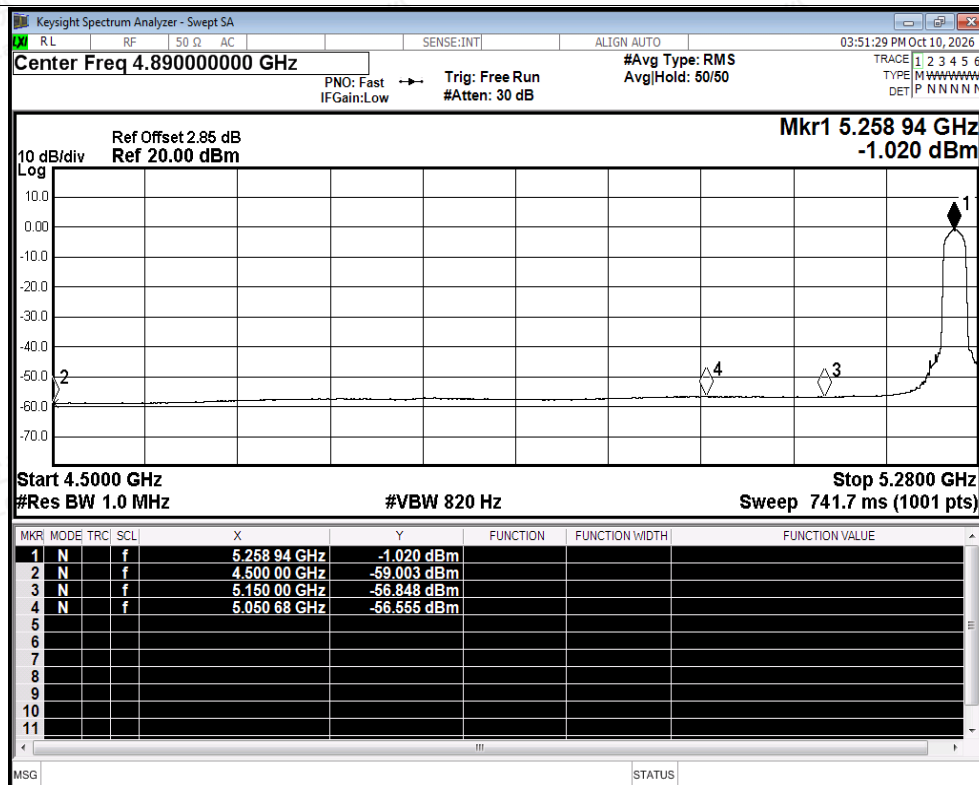
Restrict Band NVNT n40 5310MHz Ant1 Peak



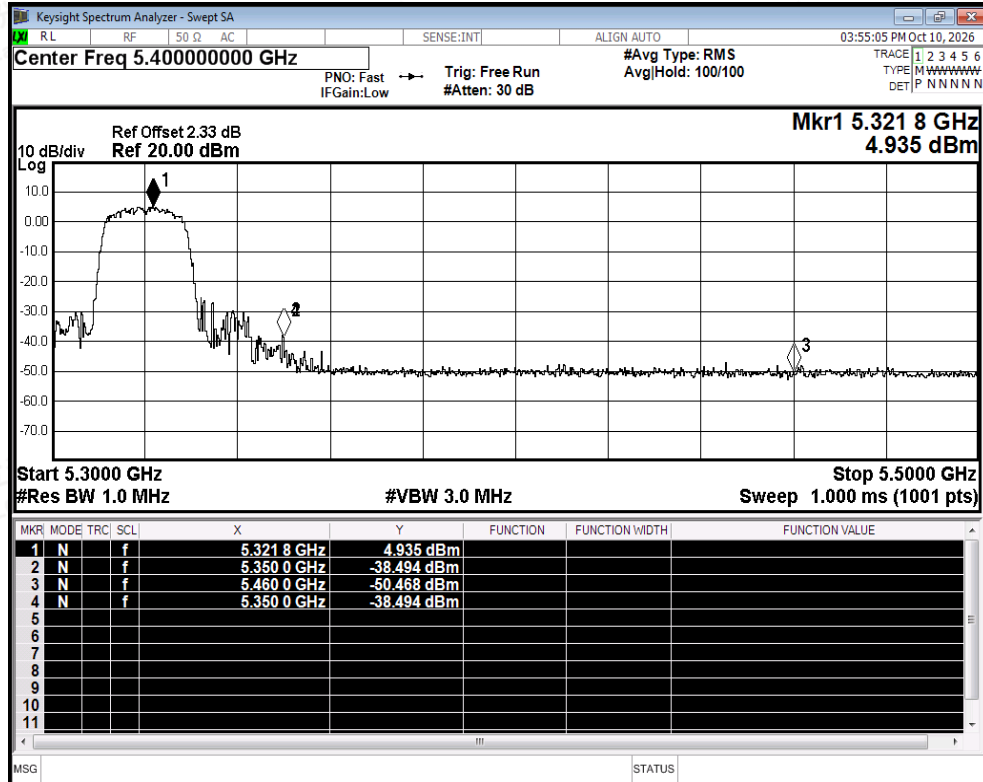
Restrict Band NVNT n40 5310MHz Ant1 Average



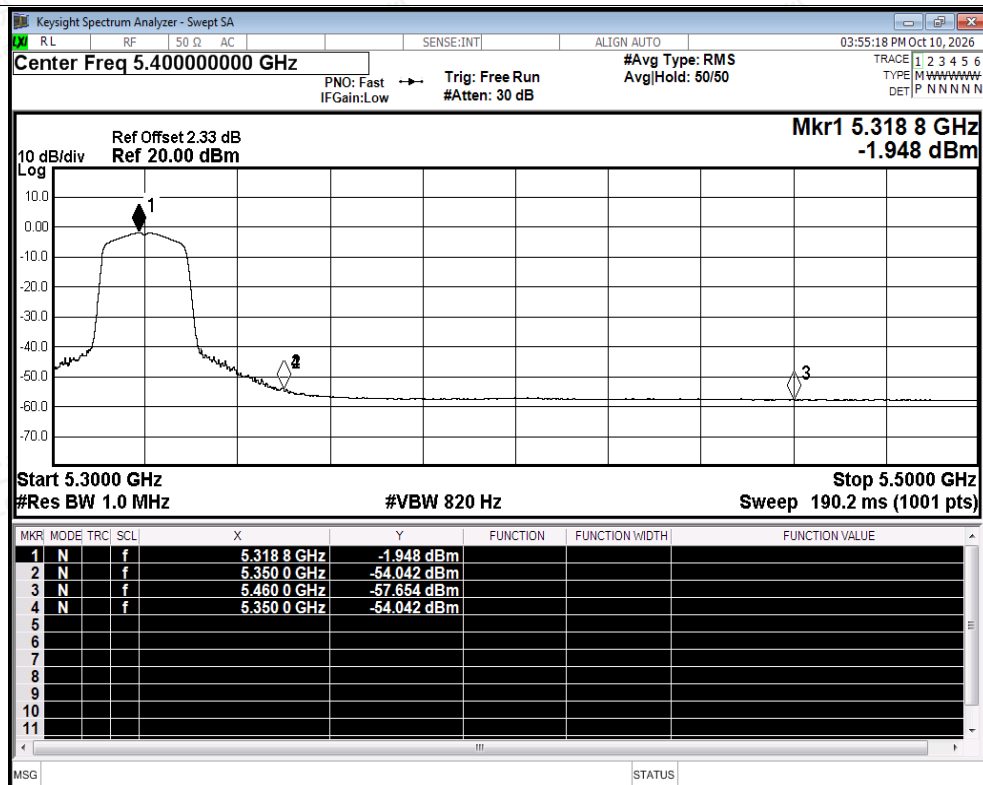
Restrict Band NVNT ac20 5260MHz Ant1 Peak



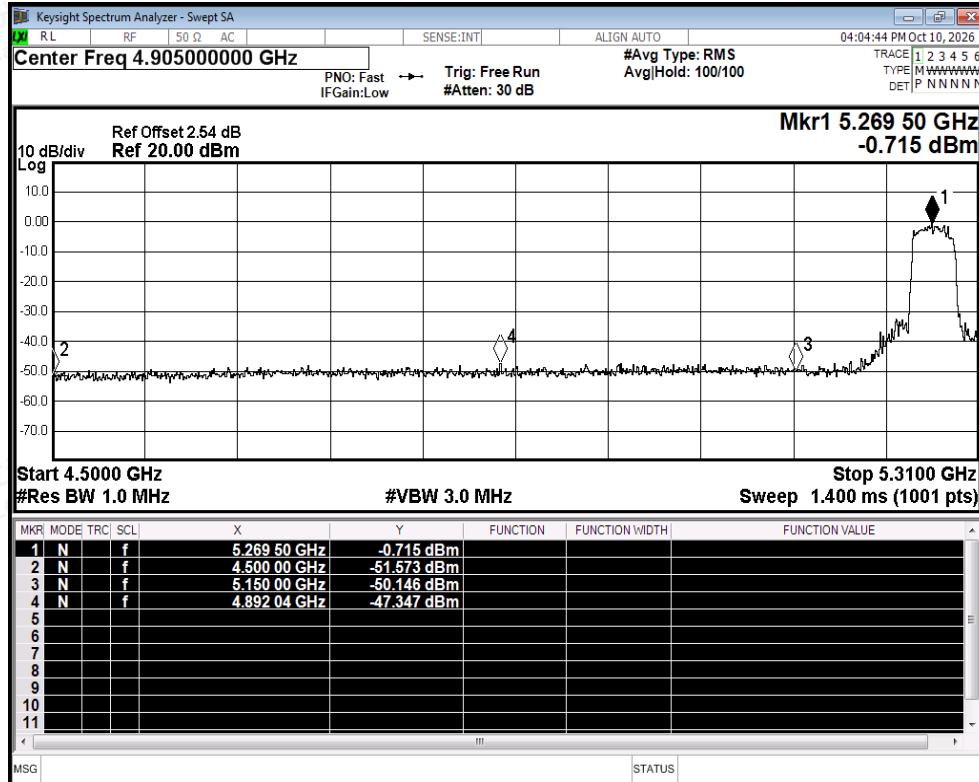
Restrict Band NVNT ac20 5260MHz Ant1 Average



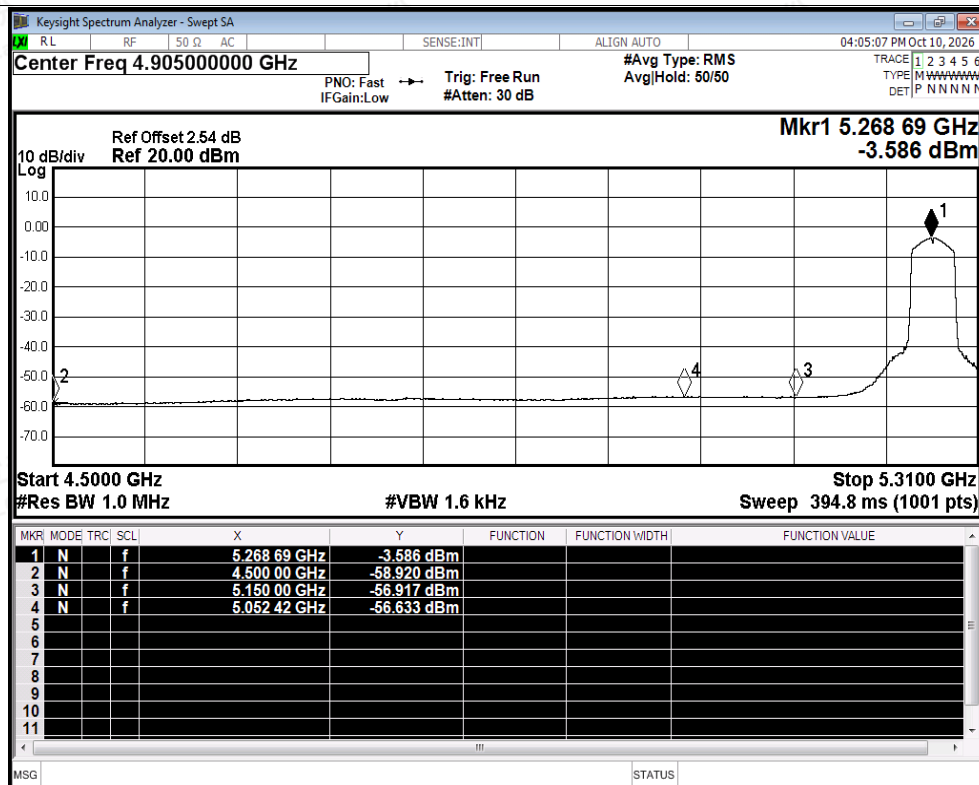
Restrict Band NVNT ac20 5320MHz Ant1 Peak



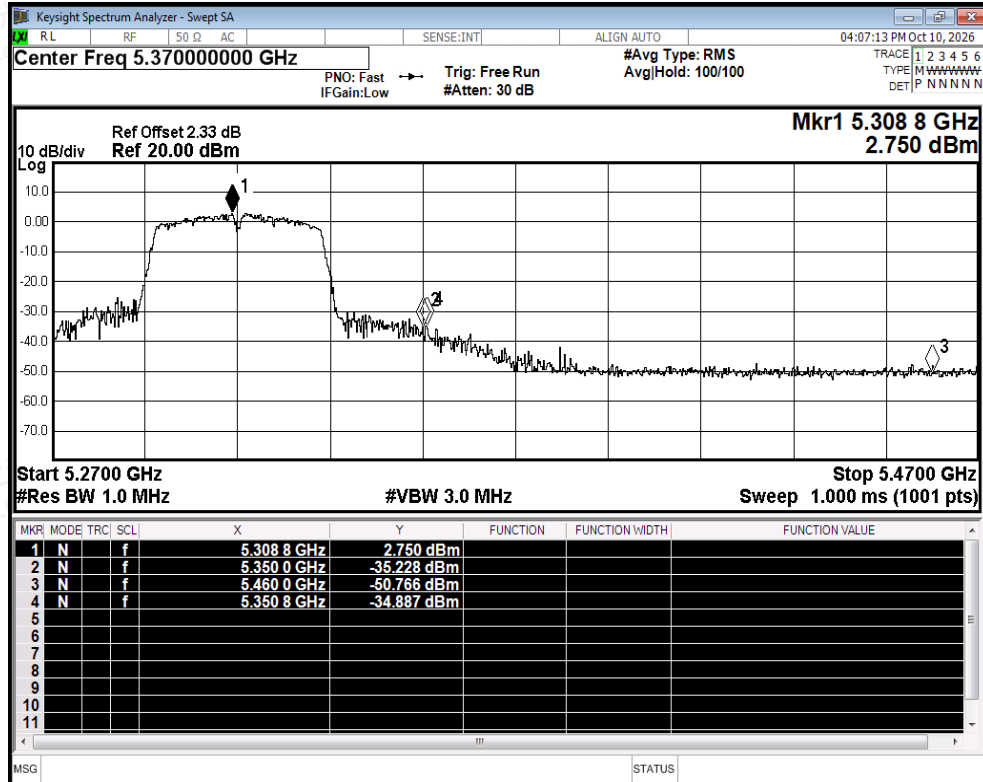
Restrict Band NVNT ac20 5320MHz Ant1 Average



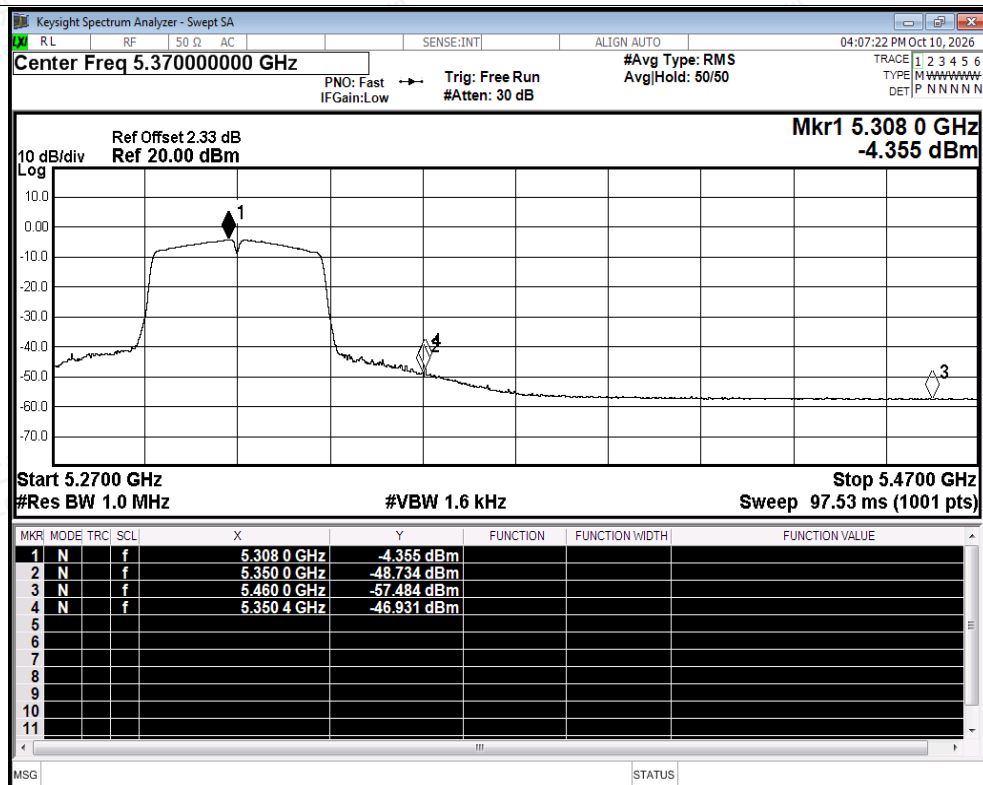
Restrict Band NVNT ac40 5270MHz Ant1 Peak



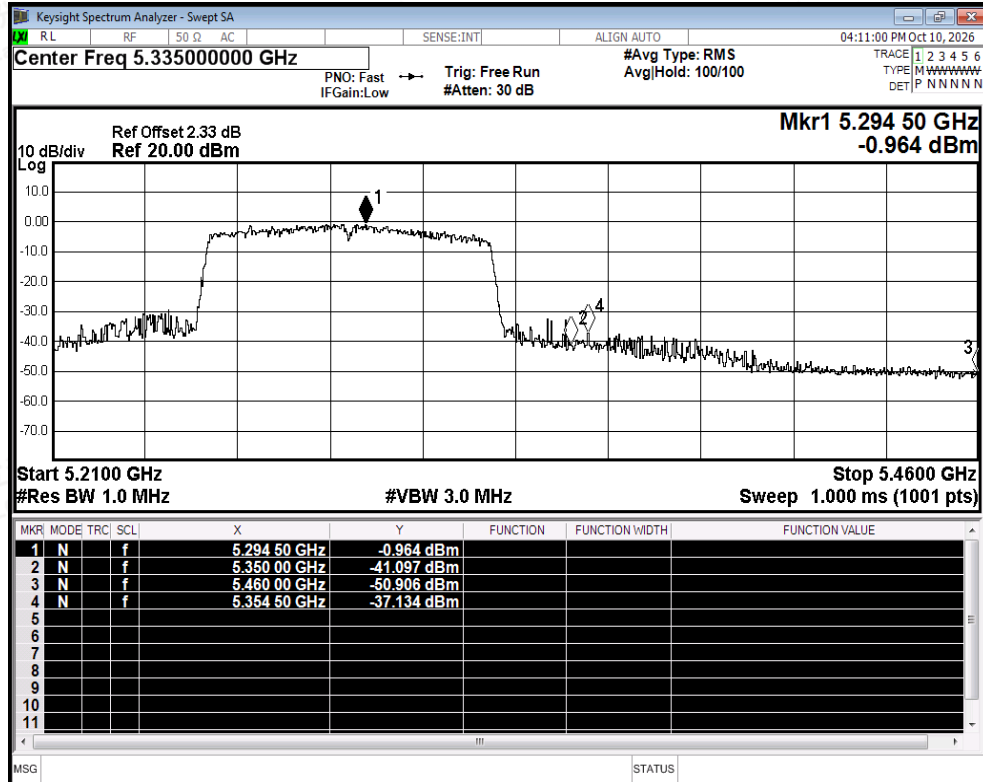
Restrict Band NVNT ac40 5270MHz Ant1 Average



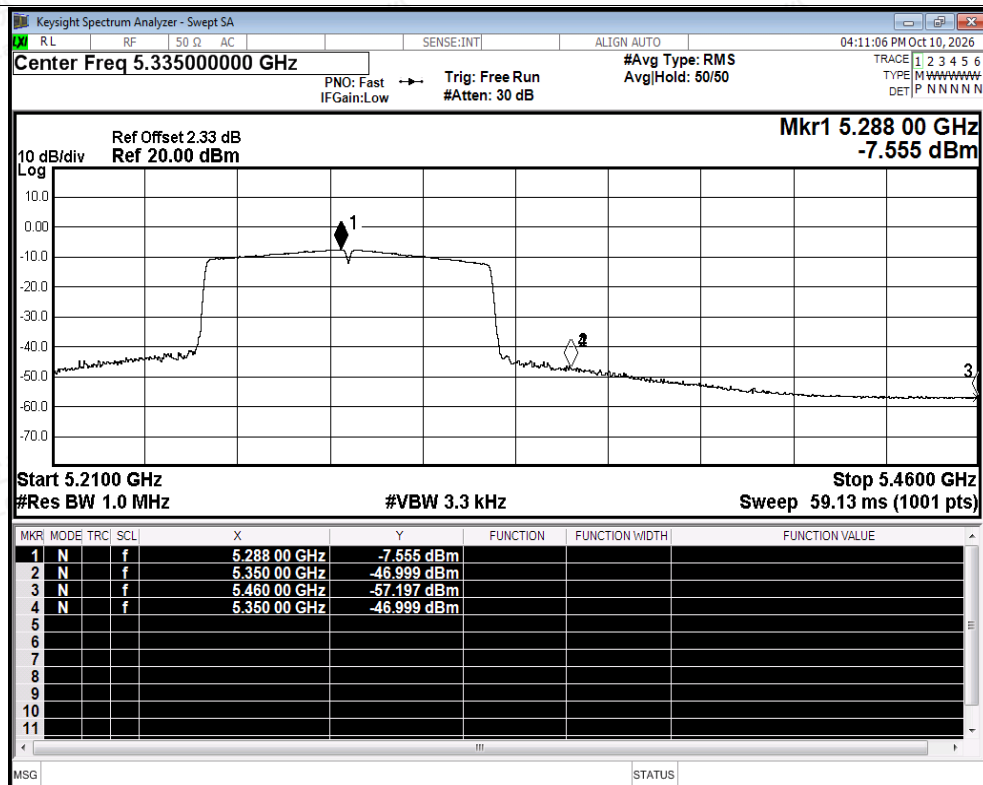
Restrict Band NVNT ac40 5310MHz Ant1 Peak



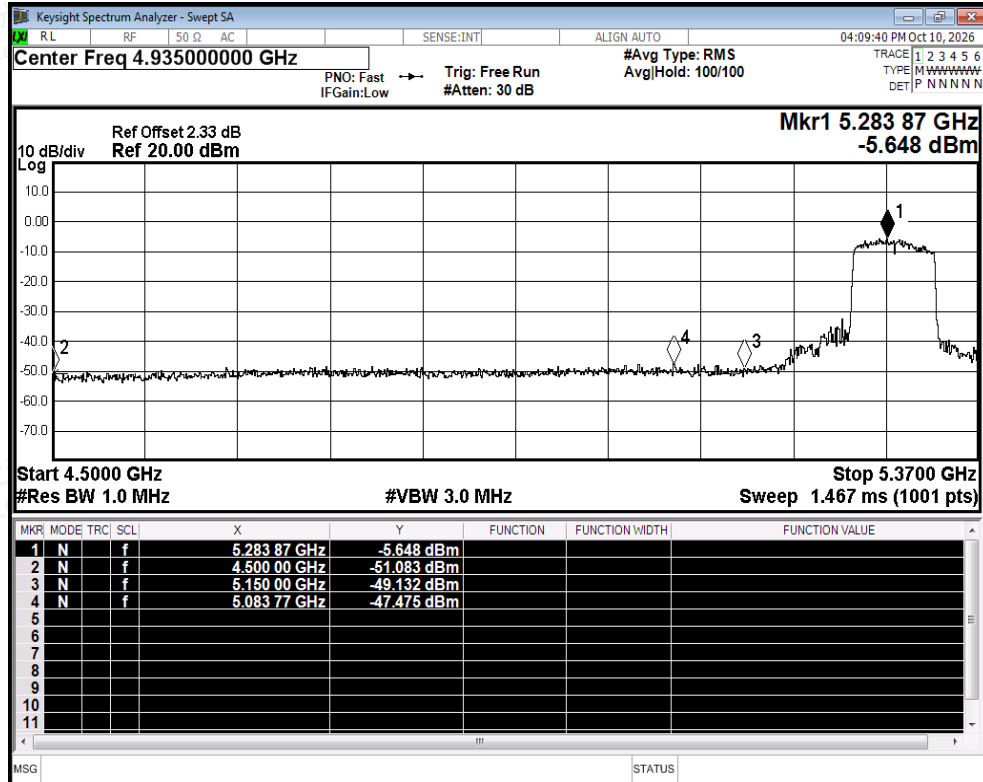
Restrict Band NVNT ac40 5310MHz Ant1 Average



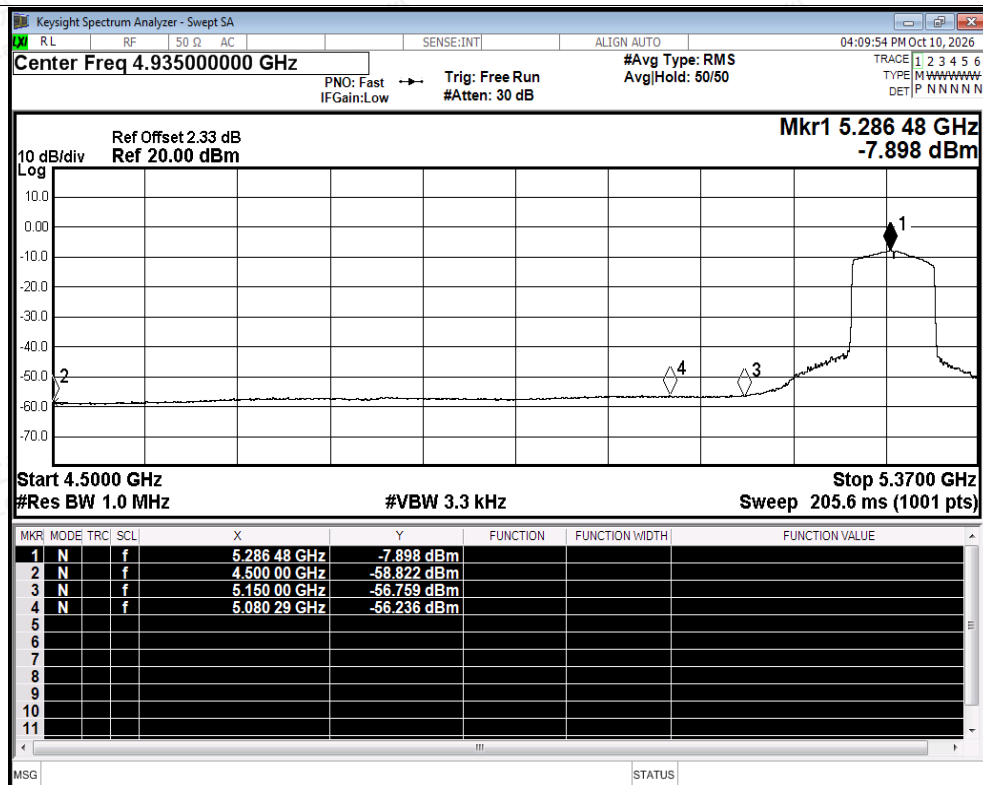
Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average



Restrict Band NVNT ac80 5290MHz Ant1 Peak

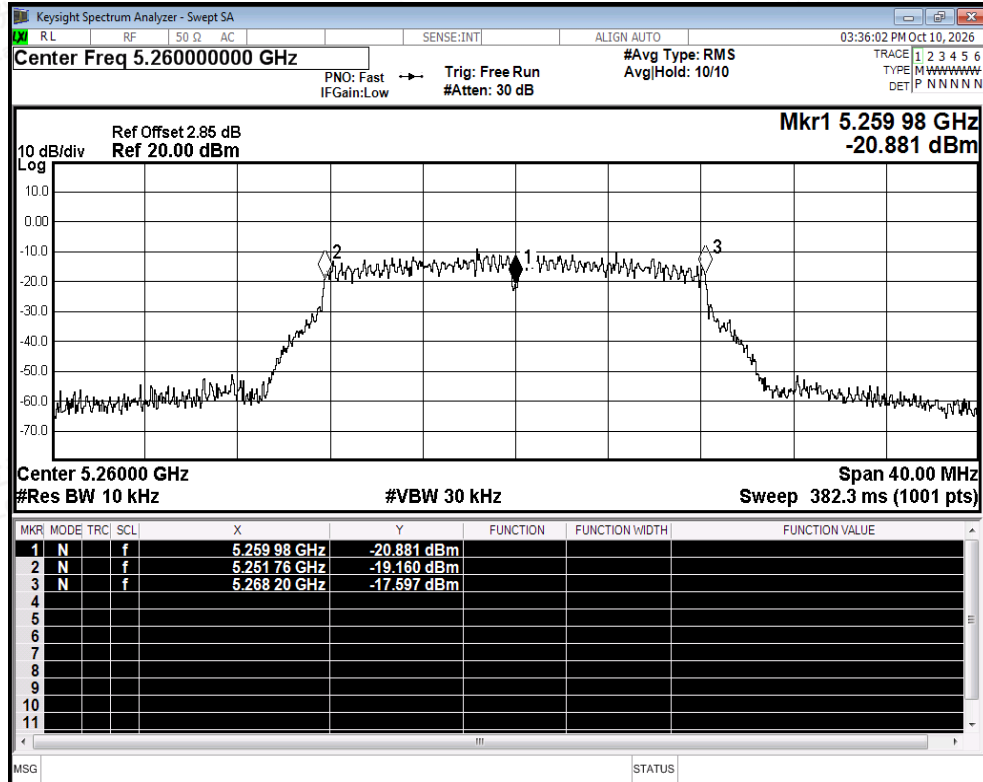


Restrict Band NVNT ac80 5290MHz Ant1 Average

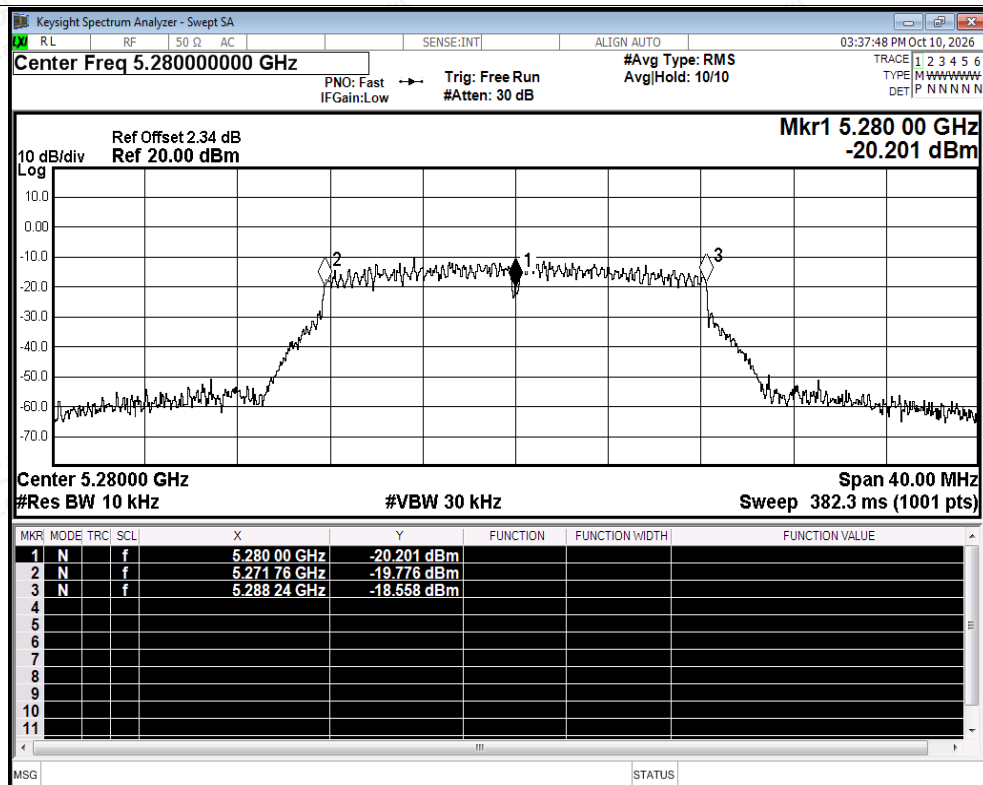


E.5 Frequency Stability

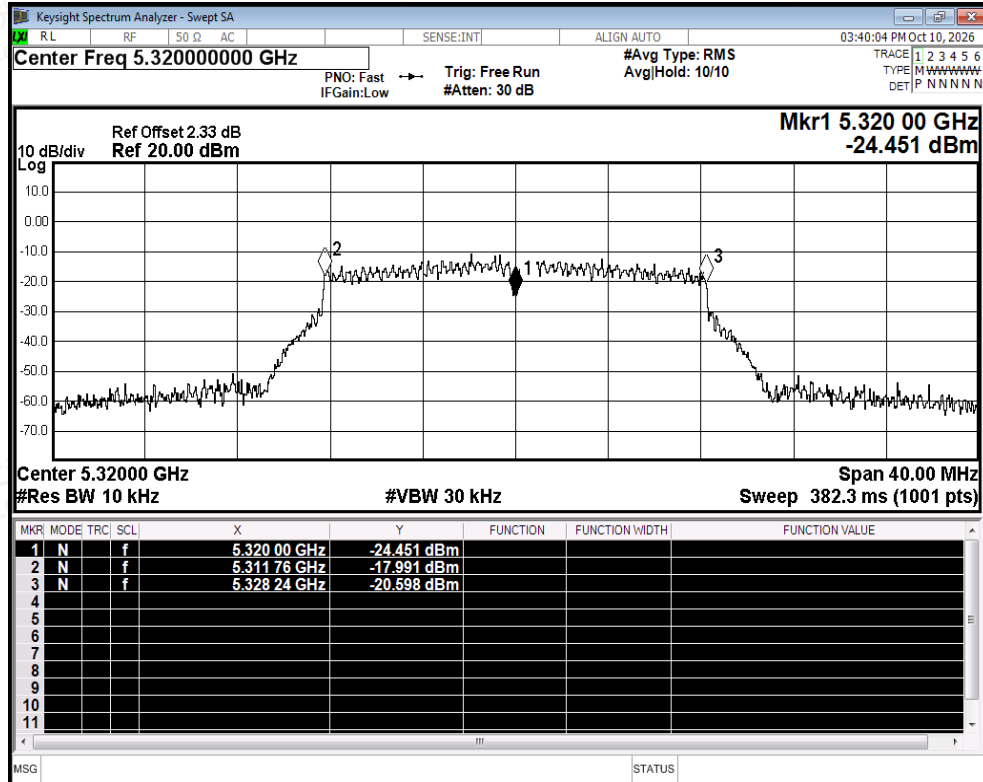
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	a	5280	Ant1	5280	0	0	25	Pass
NVNT	a	5320	Ant1	5320	0	0	25	Pass
NVNT	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	n20	5280	Ant1	5280	0	0	25	Pass
NVNT	n20	5320	Ant1	5320.02	20000	3.76	25	Pass
NVNT	n40	5270	Ant1	5270	0	0	25	Pass
NVNT	n40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac20	5260	Ant1	5260	0	0	25	Pass
NVNT	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
NVNT	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac80	5290	Ant1	5290	0	0	25	Pass



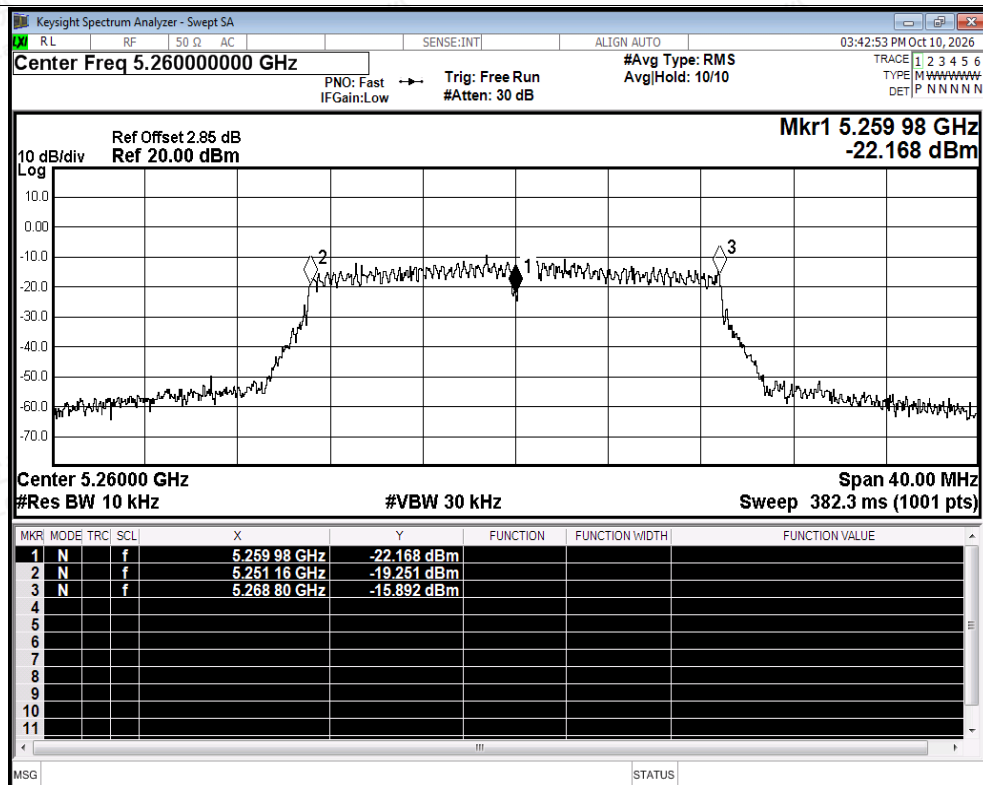
Freq. Stability NVNT a 5260MHz Ant1



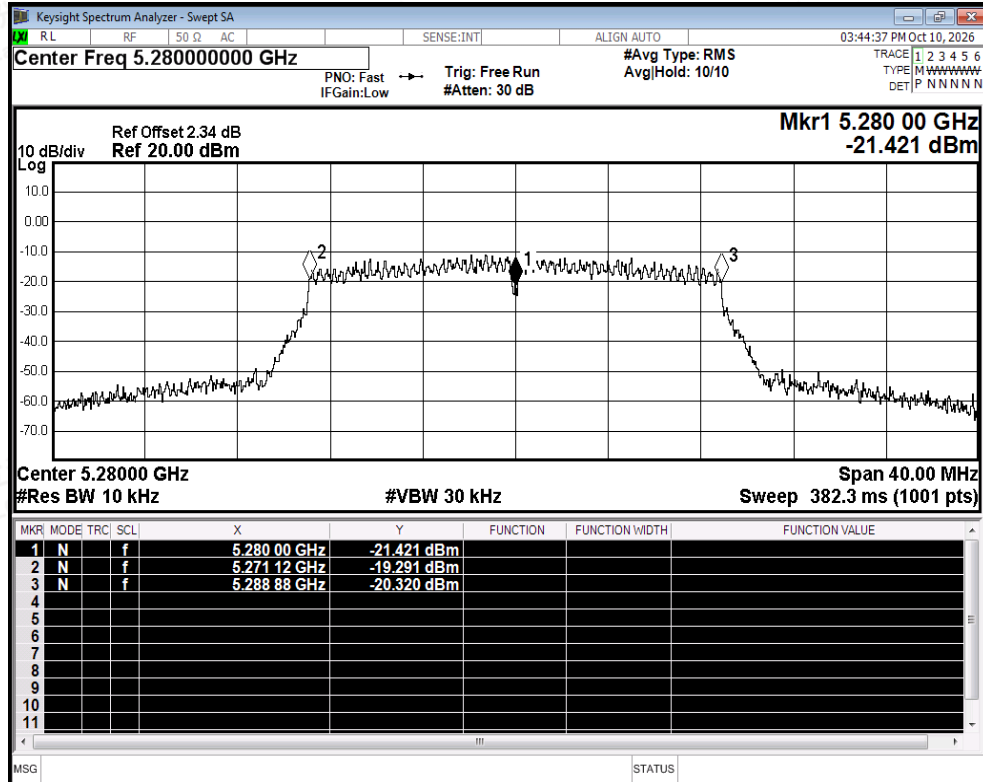
Freq. Stability NVNT a 5280MHz Ant1



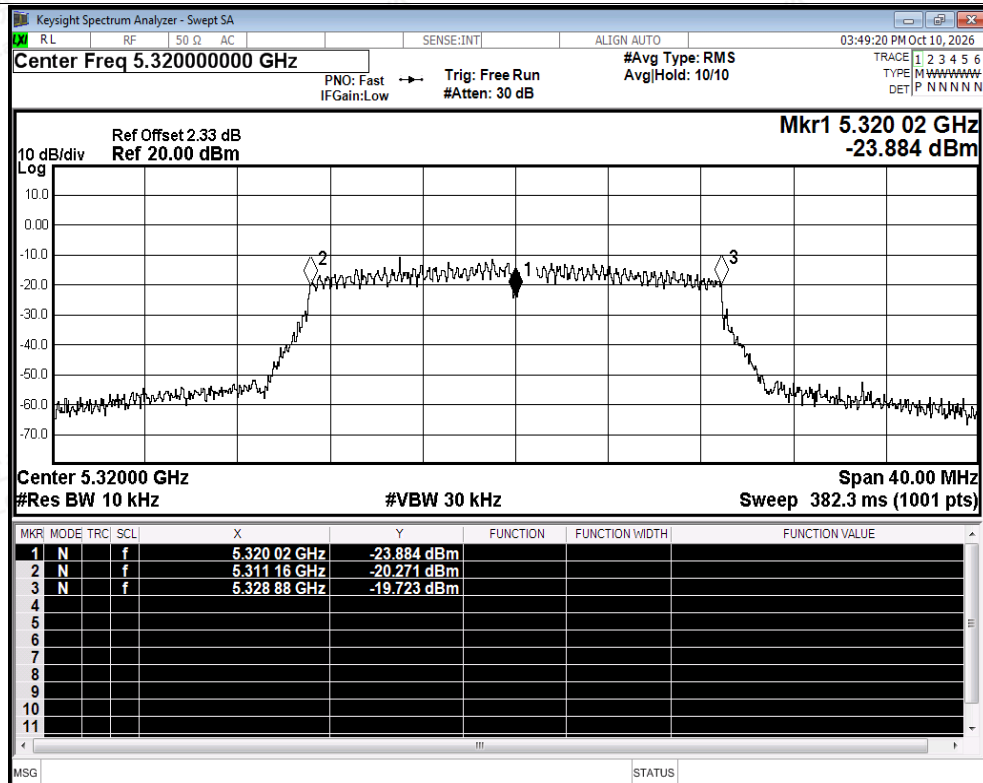
Freq. Stability NVNT a 5320MHz Ant1



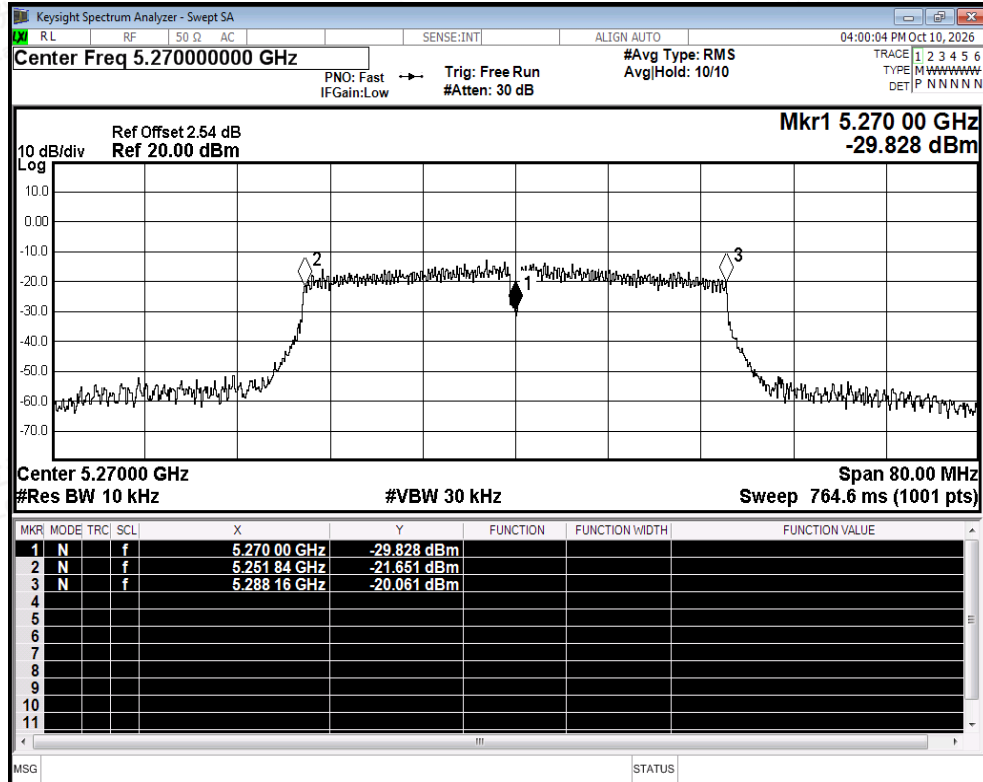
Freq. Stability NVNT n20 5260MHz Ant1



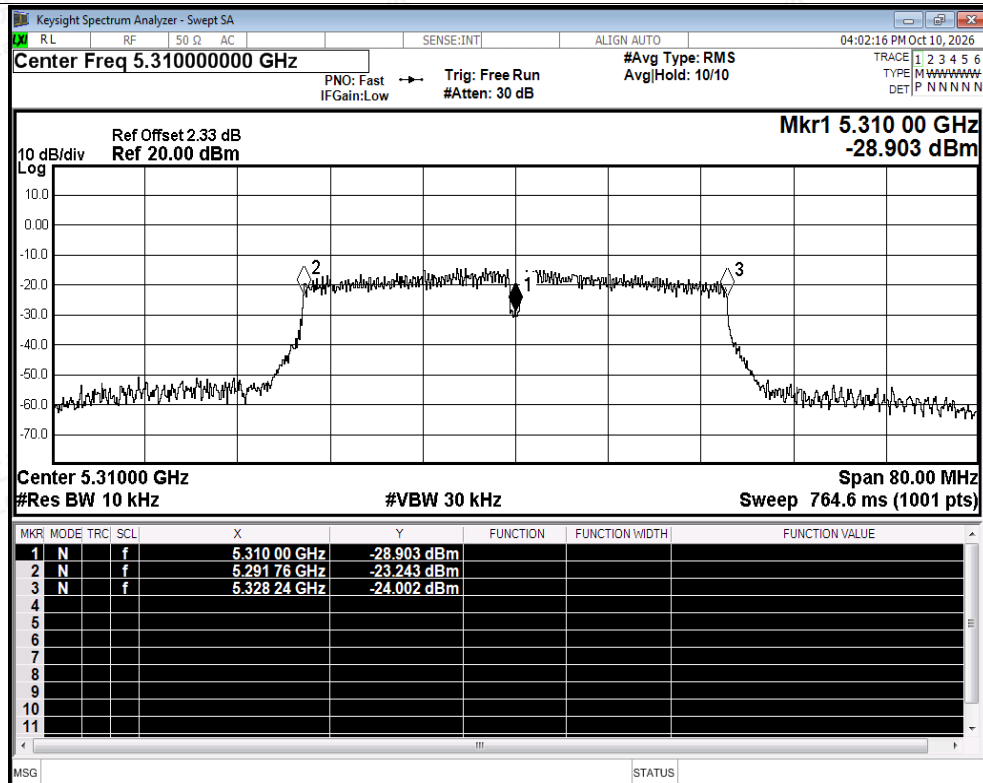
Freq. Stability NVNT n20 5280MHz Ant1



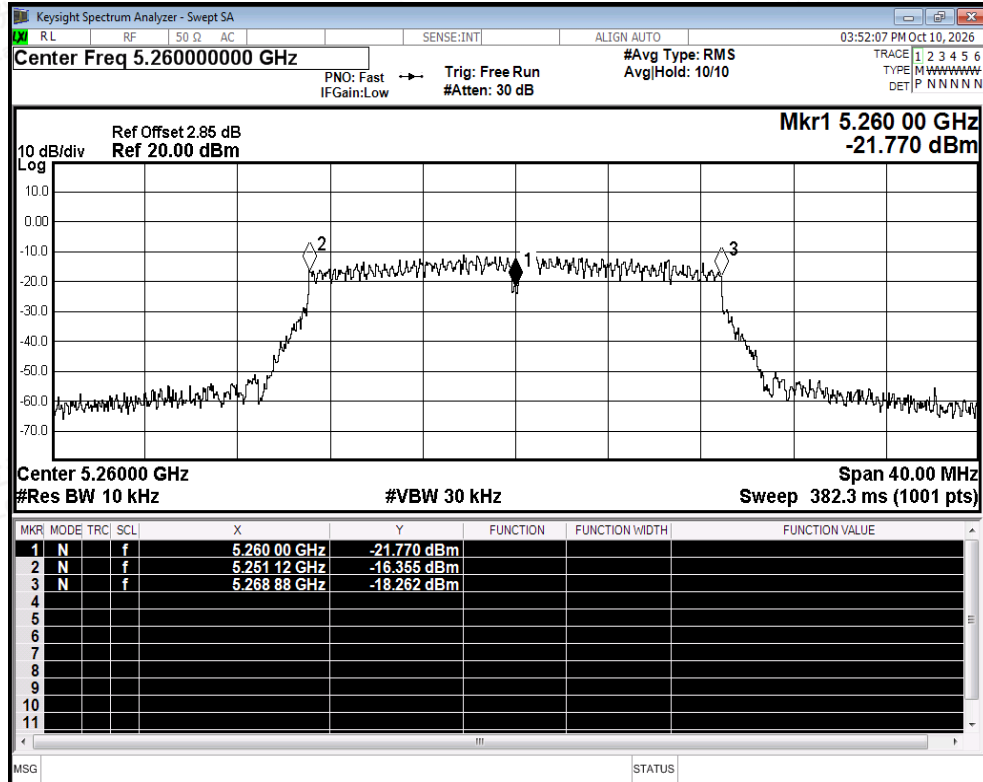
Freq. Stability NVNT n20 5320MHz Ant1



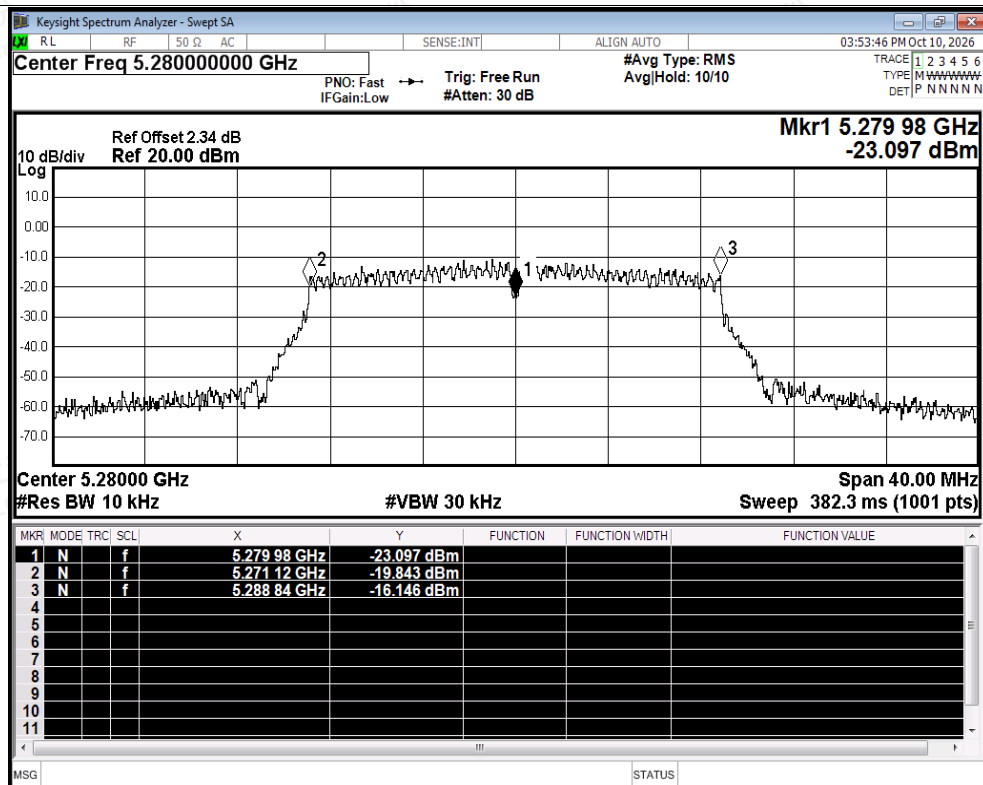
Freq. Stability NVNT n40 5270MHz Ant1



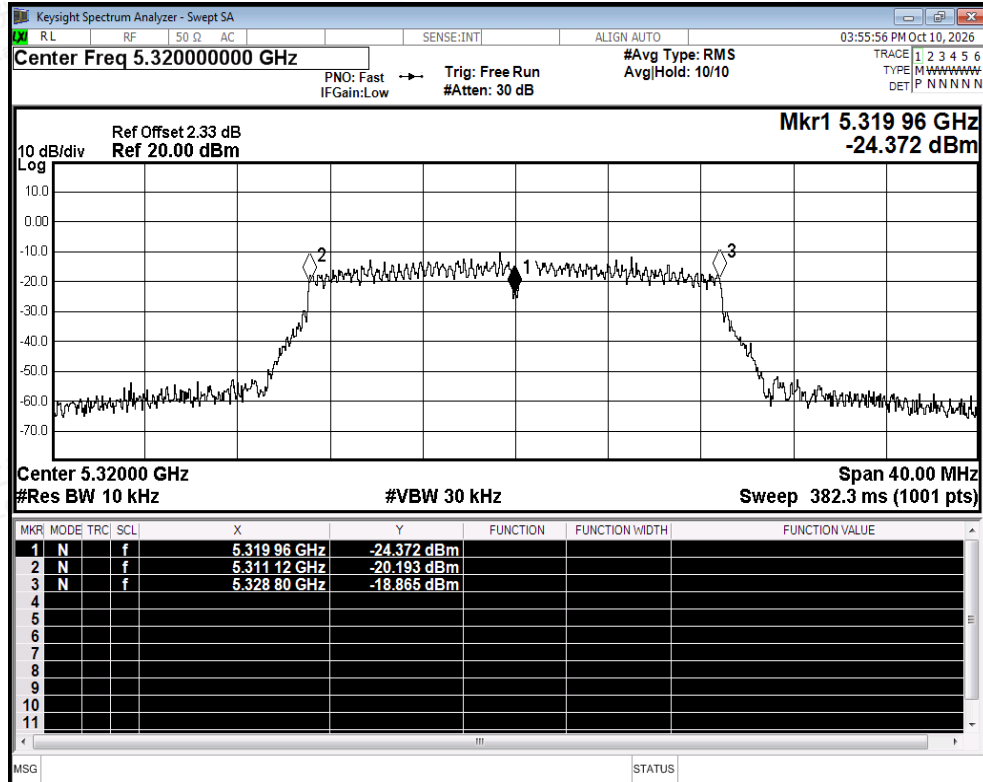
Freq. Stability NVNT n40 5310MHz Ant1



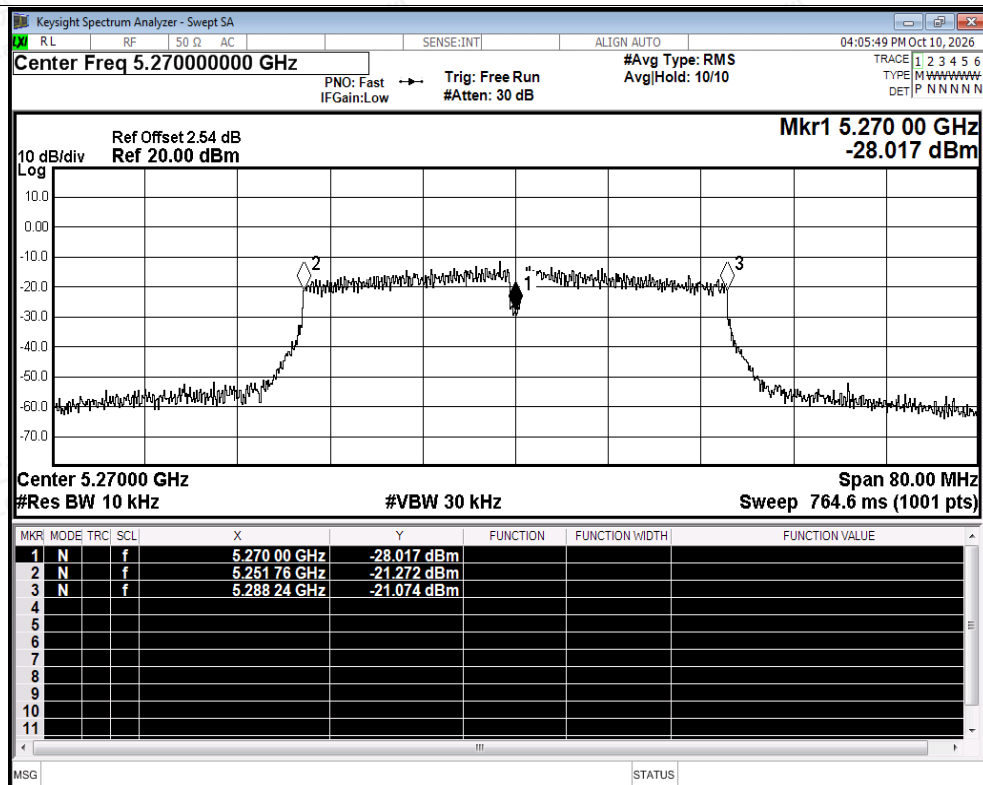
Freq. Stability NVNT ac20 5260MHz Ant1



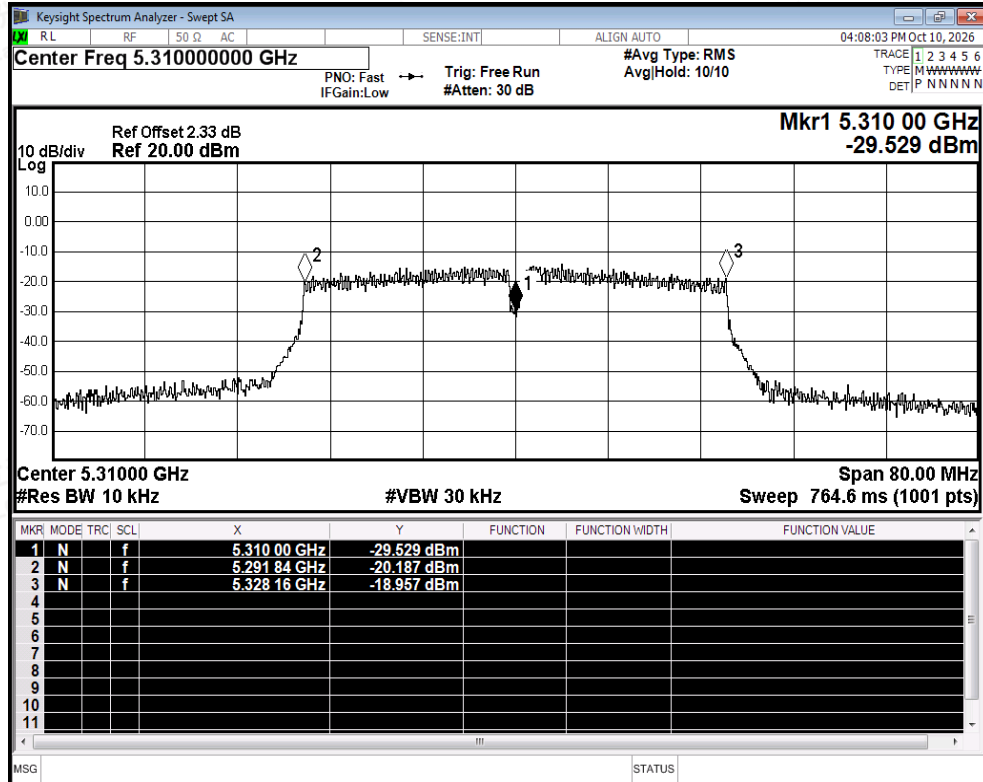
Freq. Stability NVNT ac20 5280MHz Ant1



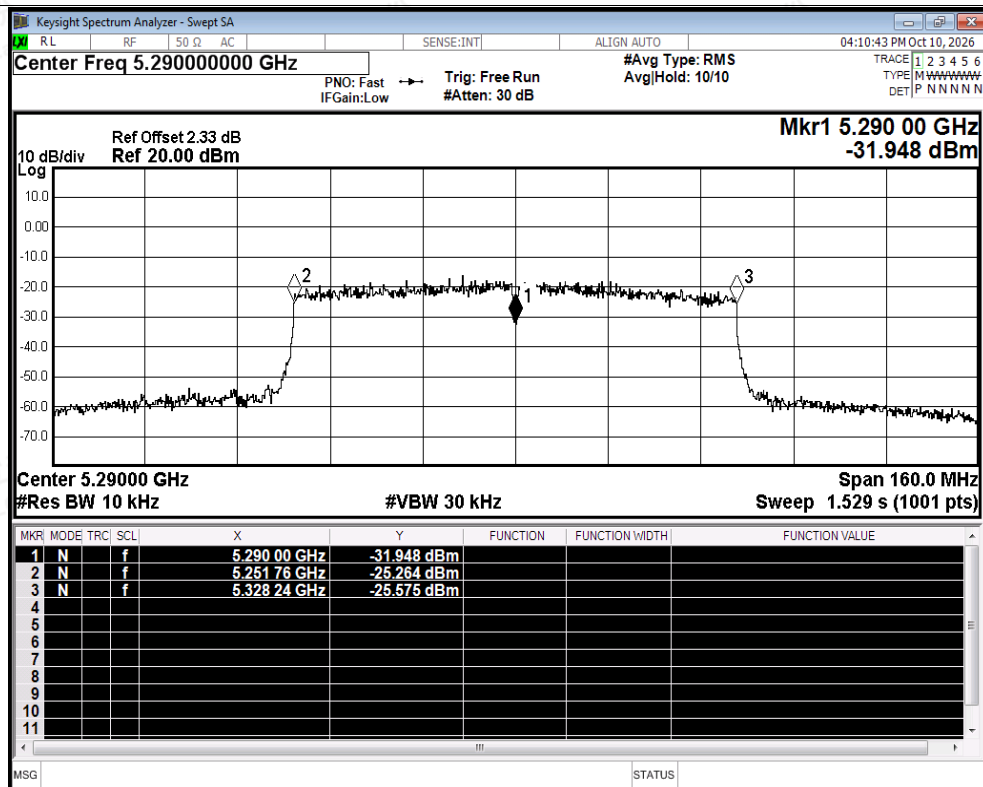
Freq. Stability NVNT ac20 5320MHz Ant1



Freq. Stability NVNT ac40 5270MHz Ant1



Freq. Stability NVNT ac40 5310MHz Ant1

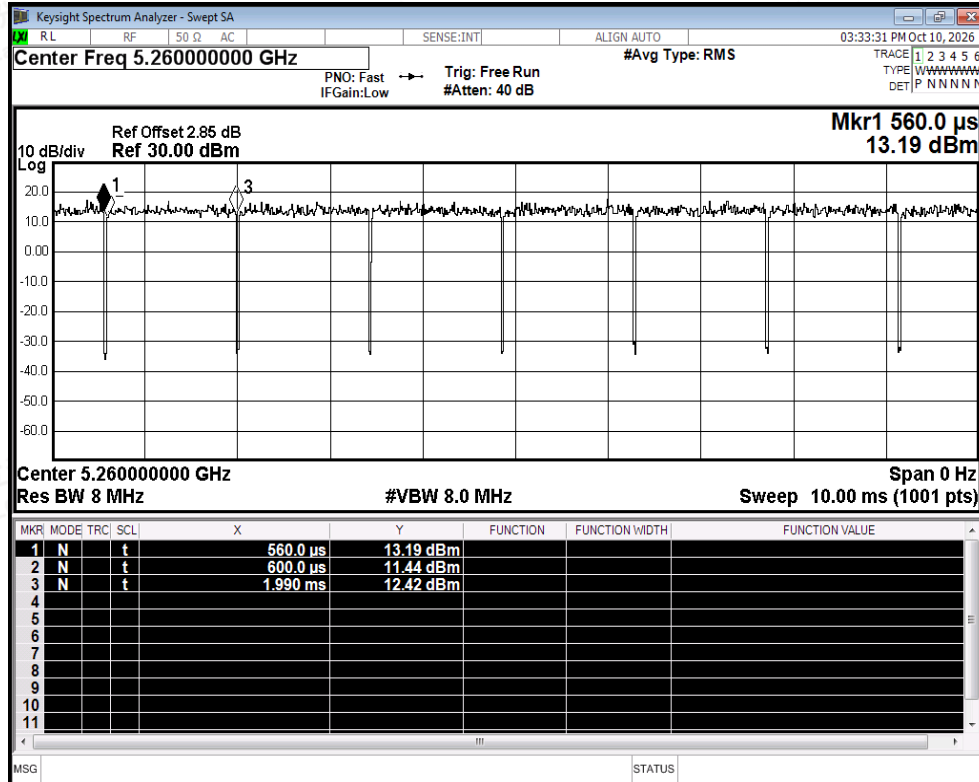


Freq. Stability NVNT ac80 5290MHz Ant1

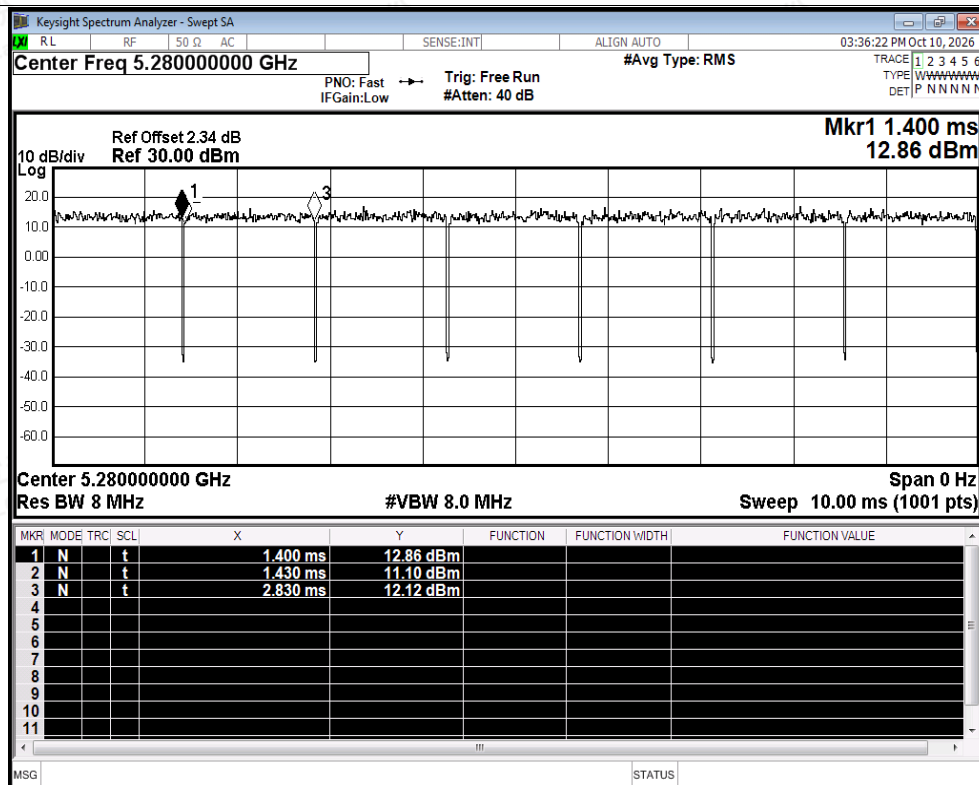


E.6 Duty Cycle

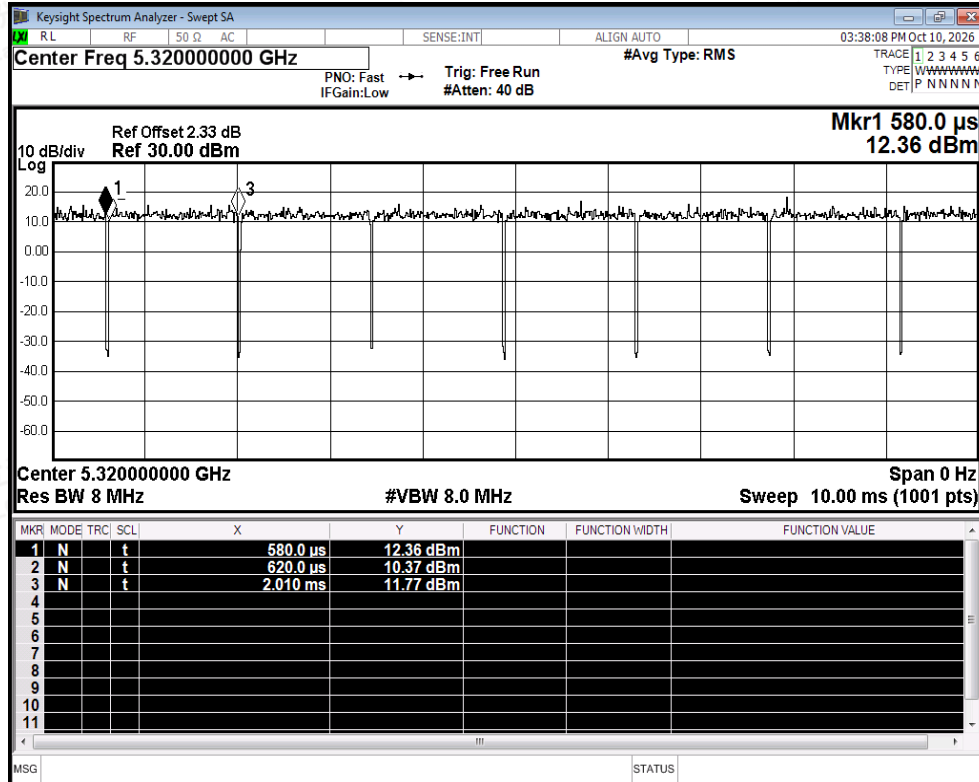
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.2	0.12	0.72
NVNT	a	5280	Ant1	97.9	0.09	0.71
NVNT	a	5320	Ant1	97.2	0.12	0.72
NVNT	n20	5260	Ant1	97.01	0.13	0.77
NVNT	n20	5280	Ant1	97.74	0.1	0.77
NVNT	n20	5320	Ant1	97.74	0.1	0.77
NVNT	n40	5270	Ant1	95.59	0.2	1.54
NVNT	n40	5310	Ant1	95.59	0.2	1.54
NVNT	ac20	5260	Ant1	97.04	0.13	0.76
NVNT	ac20	5280	Ant1	97.76	0.1	0.76
NVNT	ac20	5320	Ant1	97.04	0.13	0.76
NVNT	ac40	5270	Ant1	95.65	0.19	1.52
NVNT	ac40	5310	Ant1	94.2	0.26	1.54
NVNT	ac80	5290	Ant1	88.89	0.51	3.13



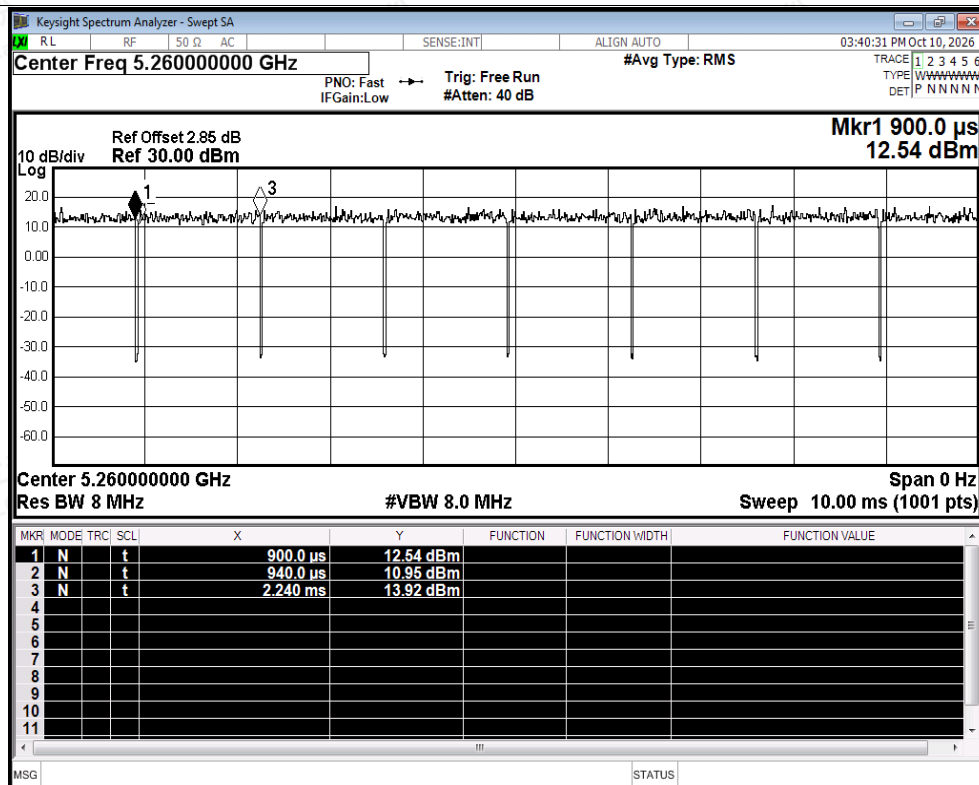
Duty Cycle NVNT a 5260MHz Ant1



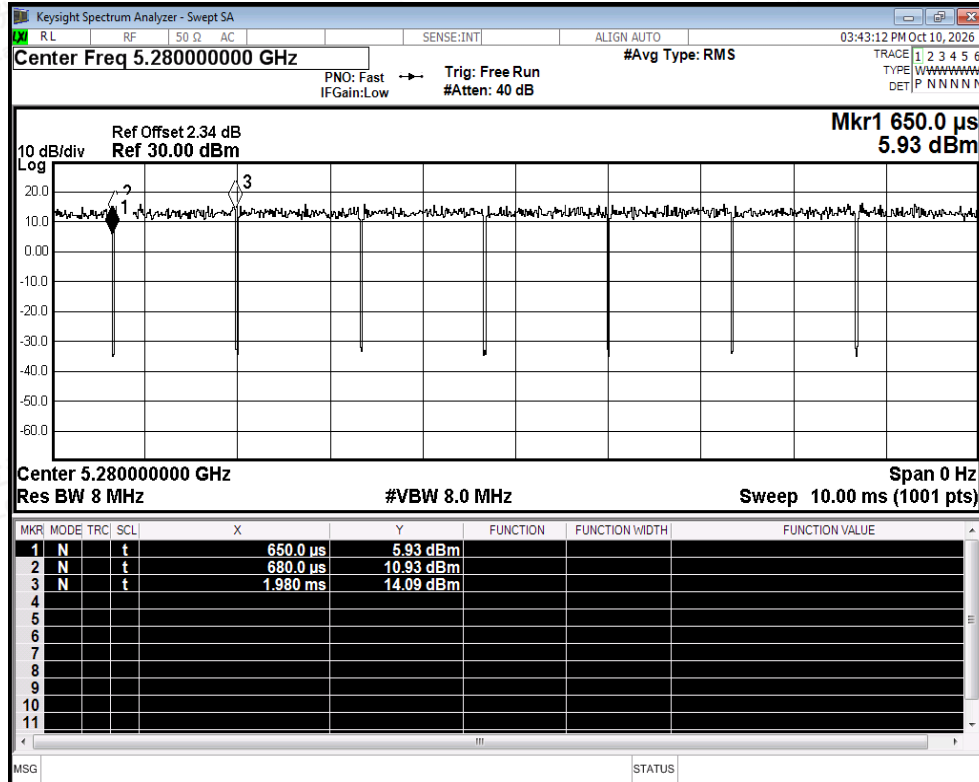
Duty Cycle NVNT a 5280MHz Ant1



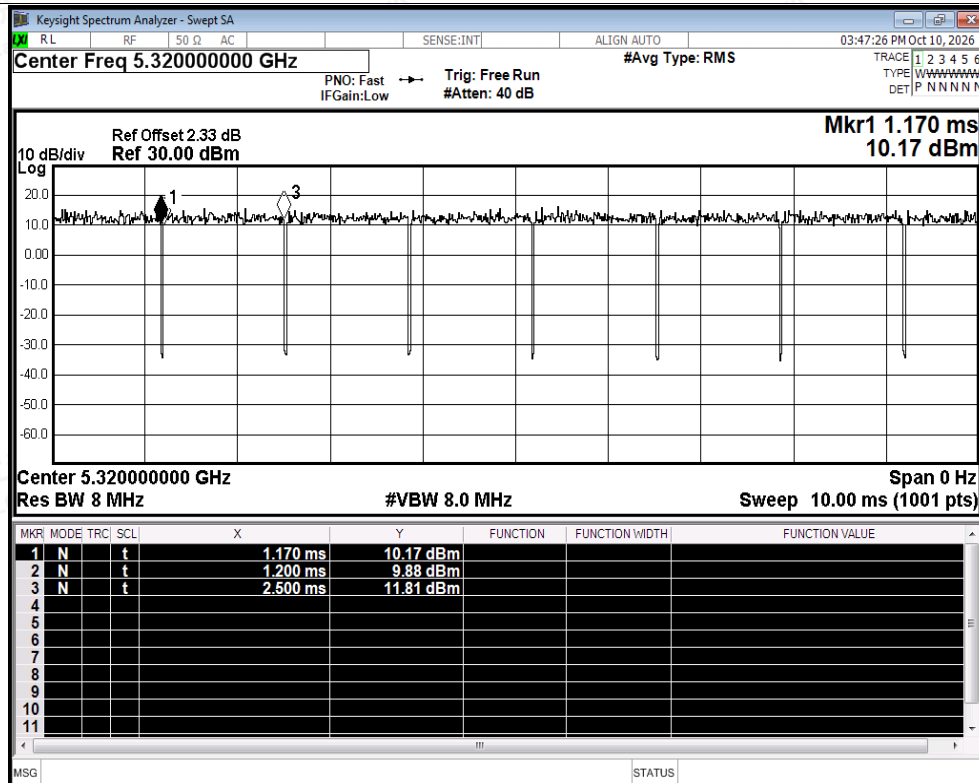
Duty Cycle NVNT a 5320MHz Ant1



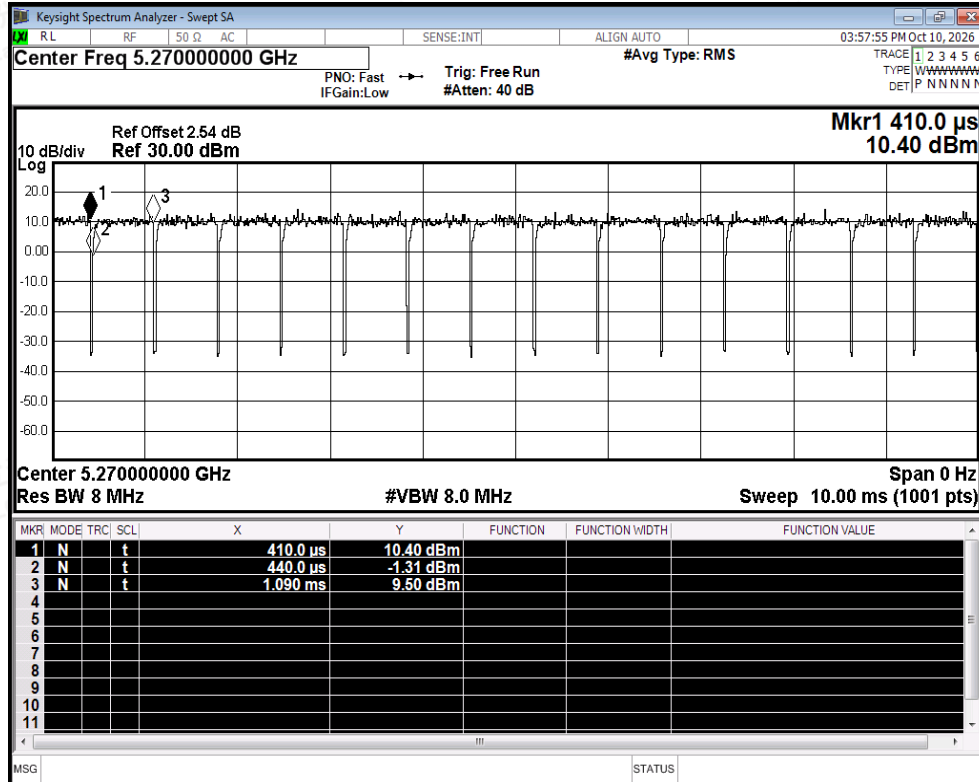
Duty Cycle NVNT n20 5260MHz Ant1



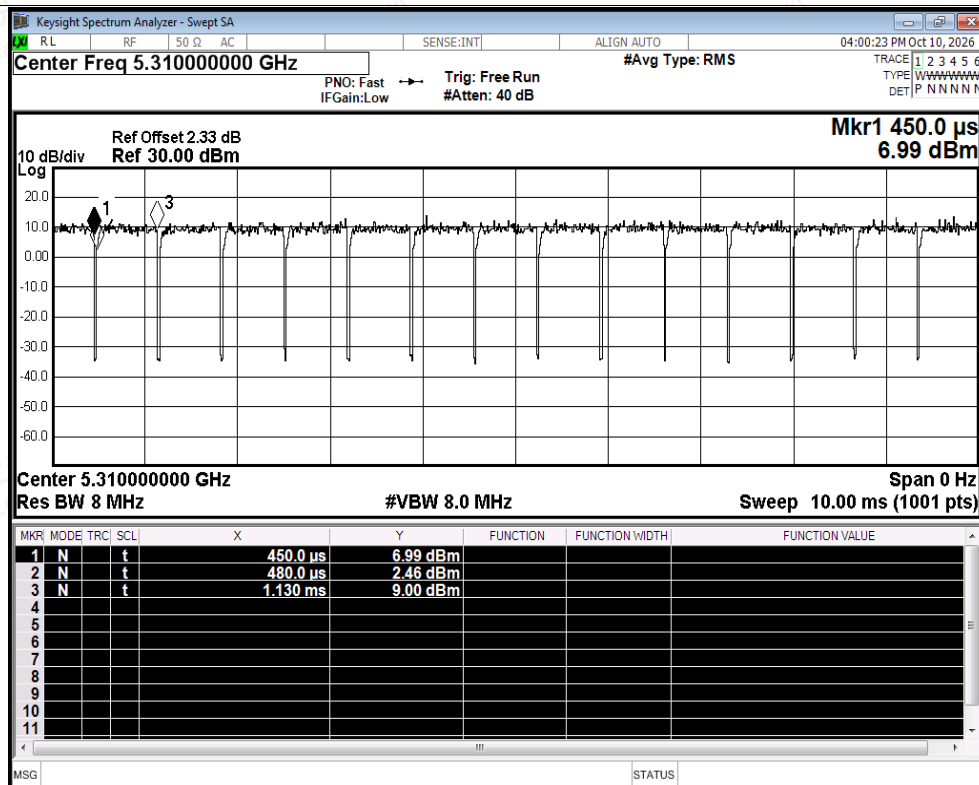
Duty Cycle NVNT n20 5280MHz Ant1



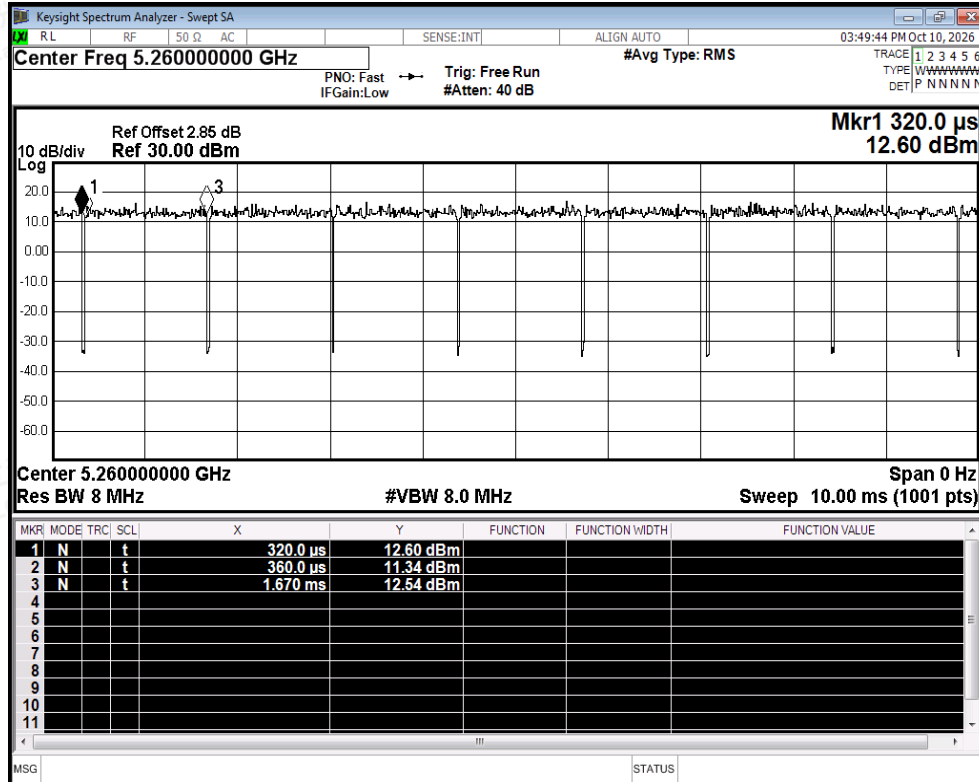
Duty Cycle NVNT n20 5320MHz Ant1



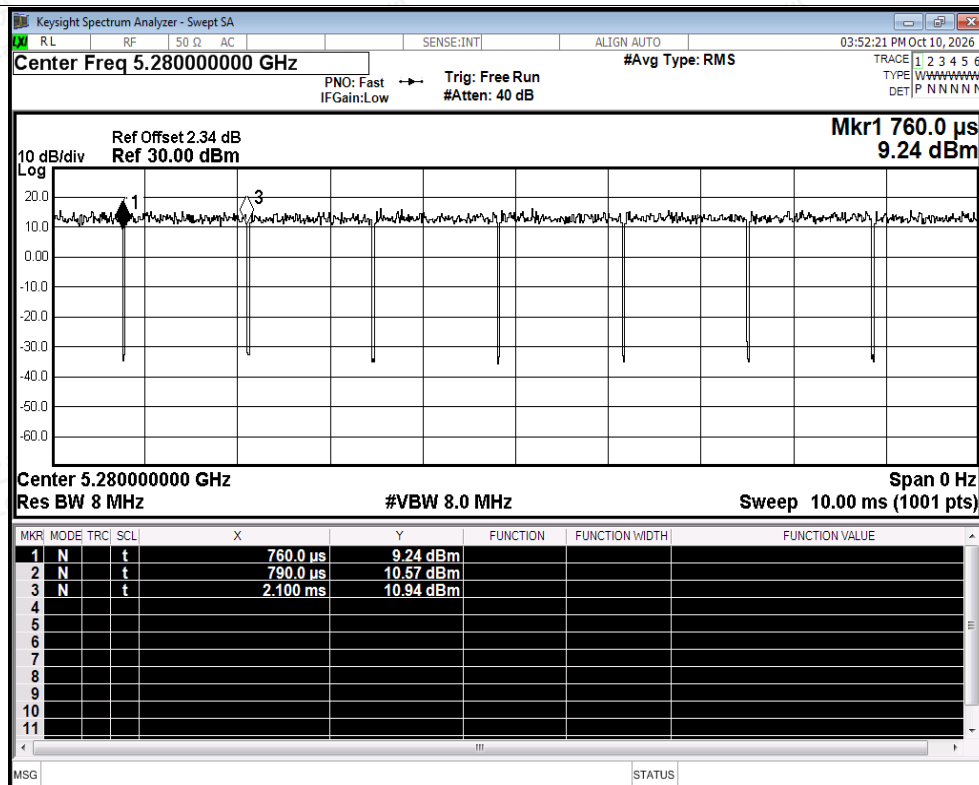
Duty Cycle NVNT n40 5270MHz Ant1



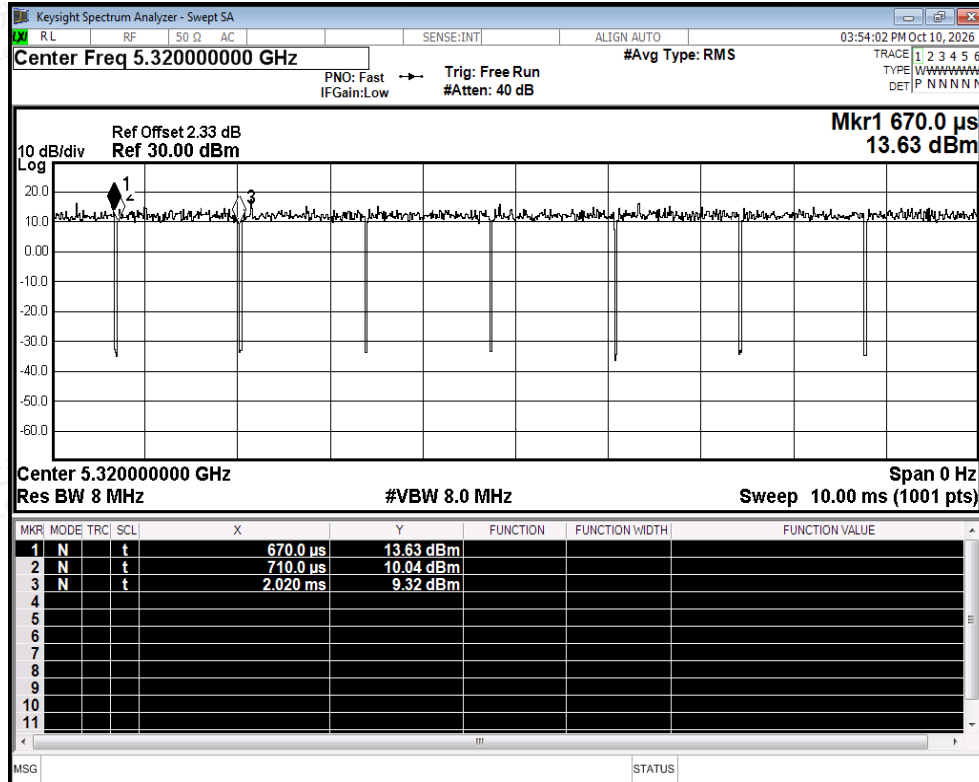
Duty Cycle NVNT n40 5310MHz Ant1



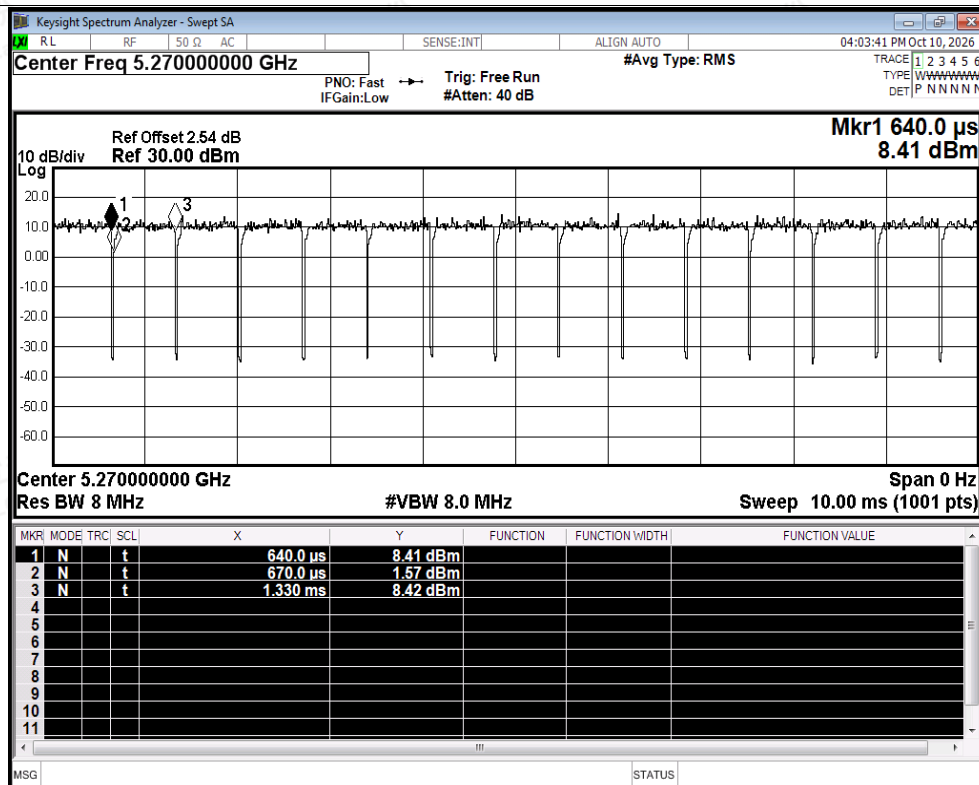
Duty Cycle NVNT ac20 5260MHz Ant1



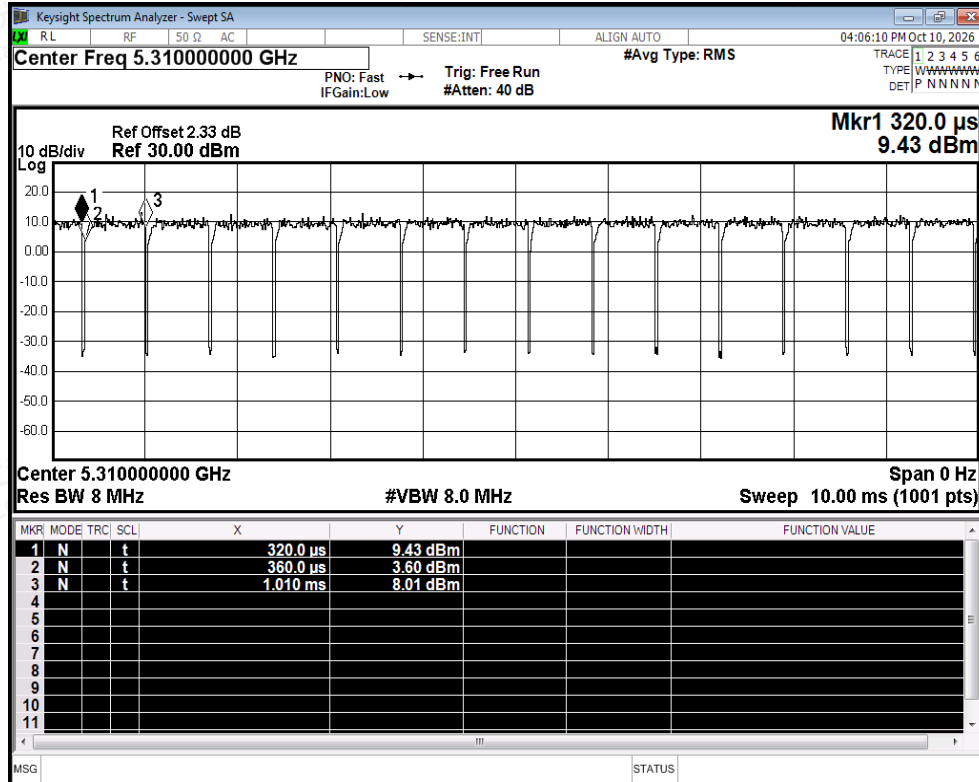
Duty Cycle NVNT ac20 5280MHz Ant1



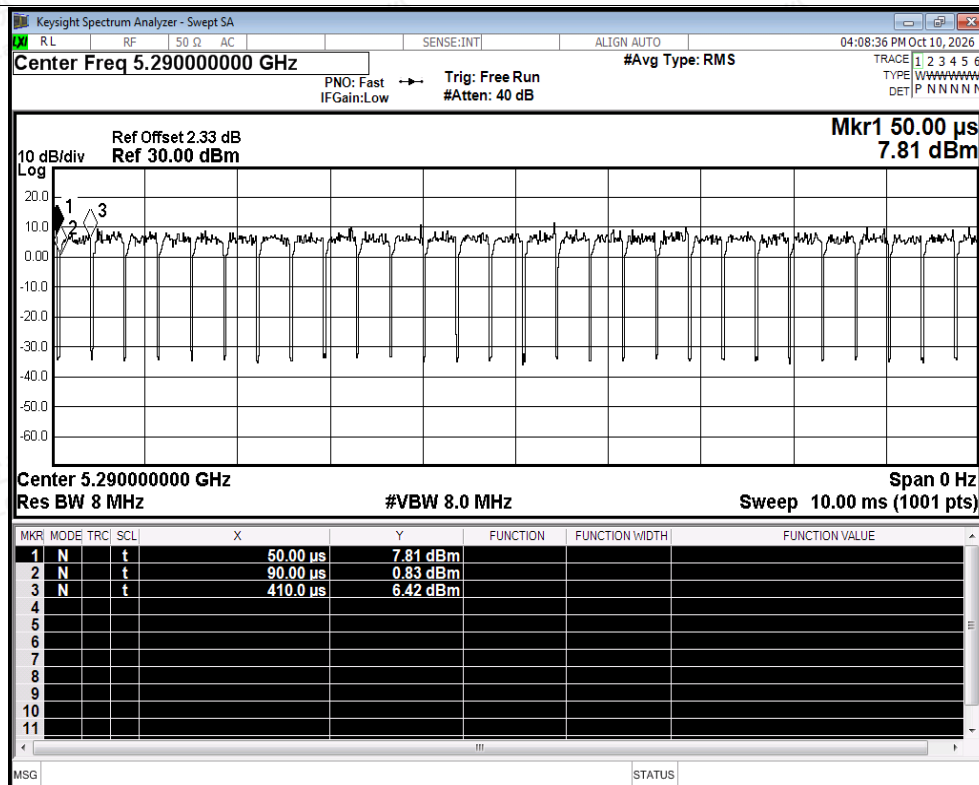
Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1



Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1