



Appendix B

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: AURORA

Test Model: 7120+3120

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ac40	5755	Ant1	32.547	>=0.5	Pass
NVNT	ac40	5795	Ant1	33.809	>=0.5	Pass
NVNT	ac40	5755	Ant2	33.777	>=0.5	Pass
NVNT	ac40	5795	Ant2	33.822	>=0.5	Pass
NVNT	ac40	5755	Ant3	32.595	>=0.5	Pass
NVNT	ac40	5795	Ant3	33.784	>=0.5	Pass
NVNT	ac40	5755	Ant4	35.072	>=0.5	Pass
NVNT	ac40	5795	Ant4	35.026	>=0.5	Pass

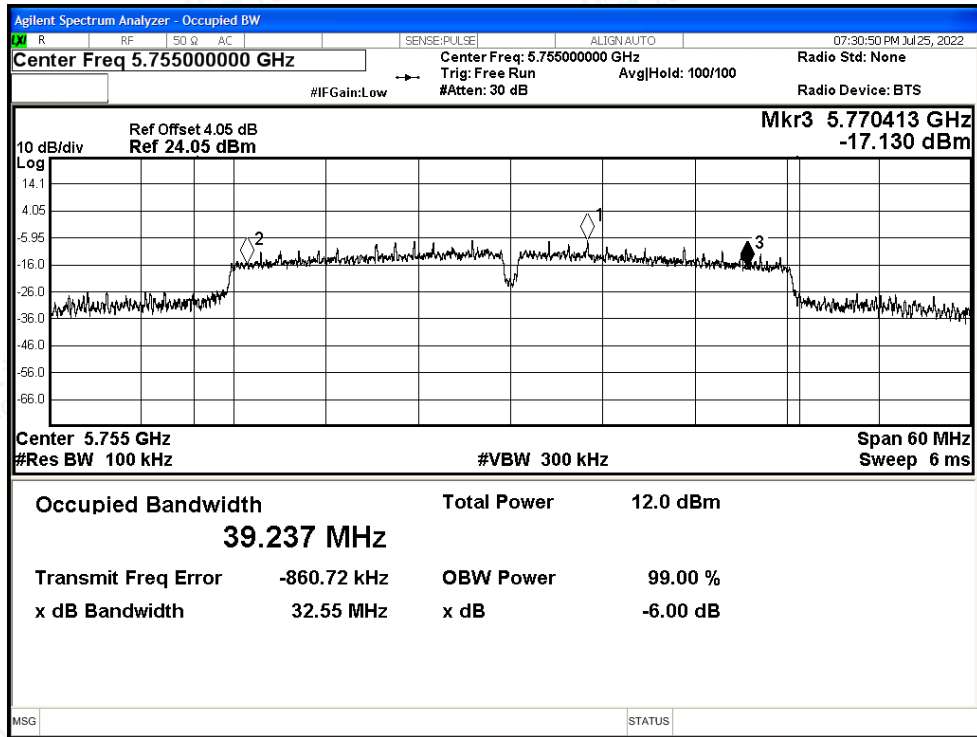


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Scan code to check authenticity

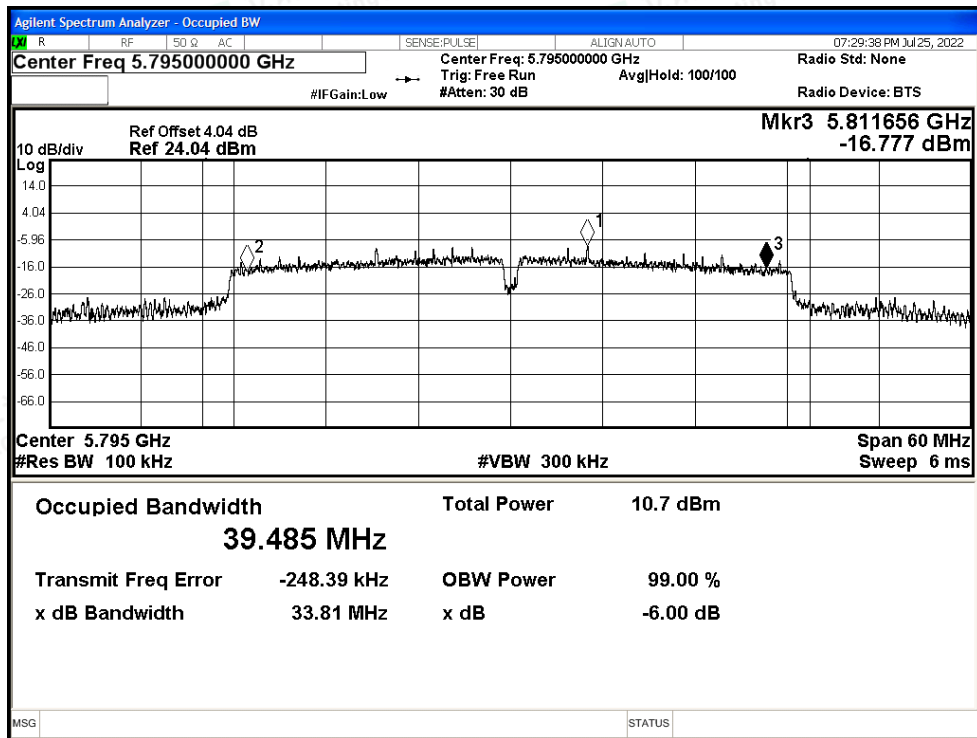


Test Graphs

-6dB Bandwidth NVNT ac40 5755MHz Ant1



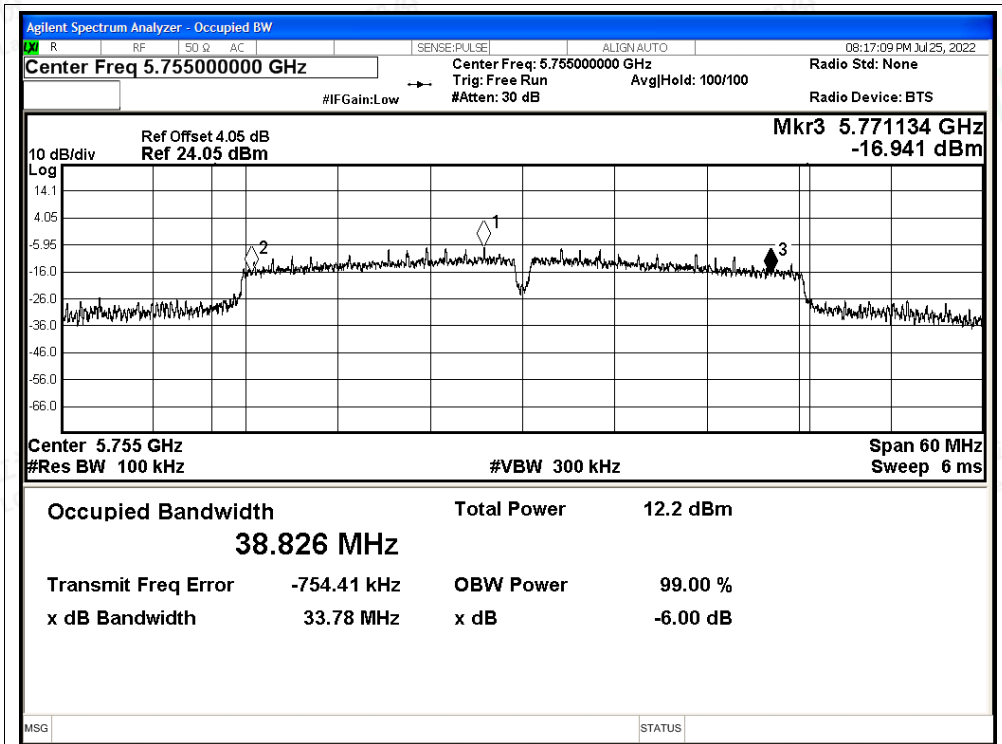
-6dB Bandwidth NVNT ac40 5795MHz Ant1



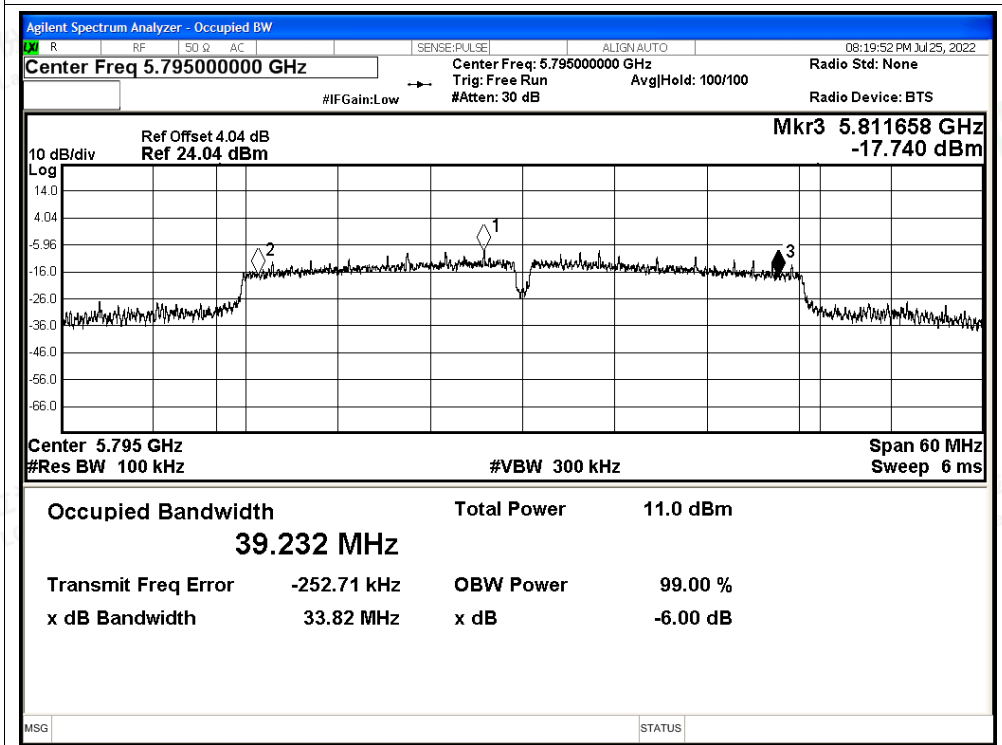
Test Graphs

-6dB Bandwidth NVNT ac40 5755MHz Ant2





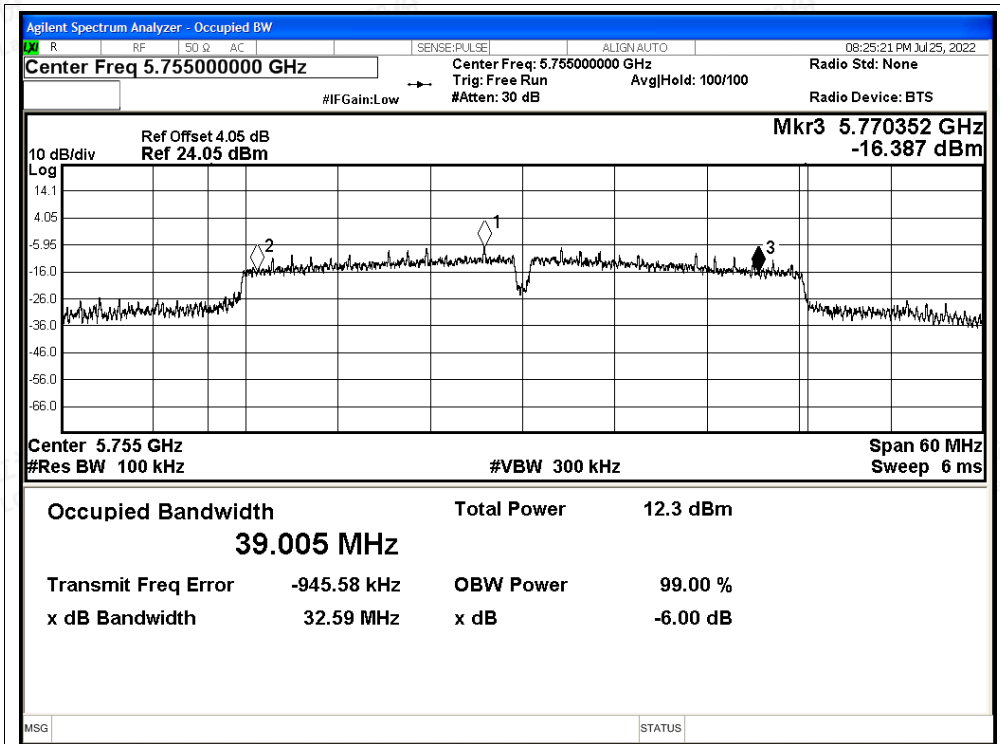
-6dB Bandwidth NVNT ac40 5795MHz Ant2



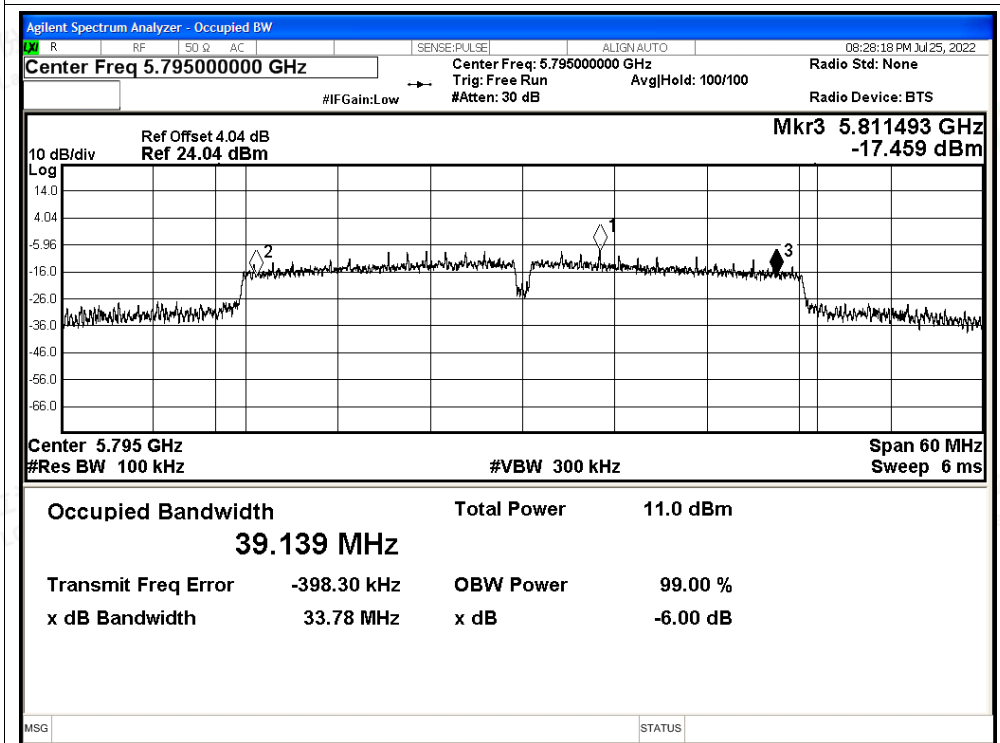
Test Graphs

-6dB Bandwidth NVNT ac40 5755MHz Ant3





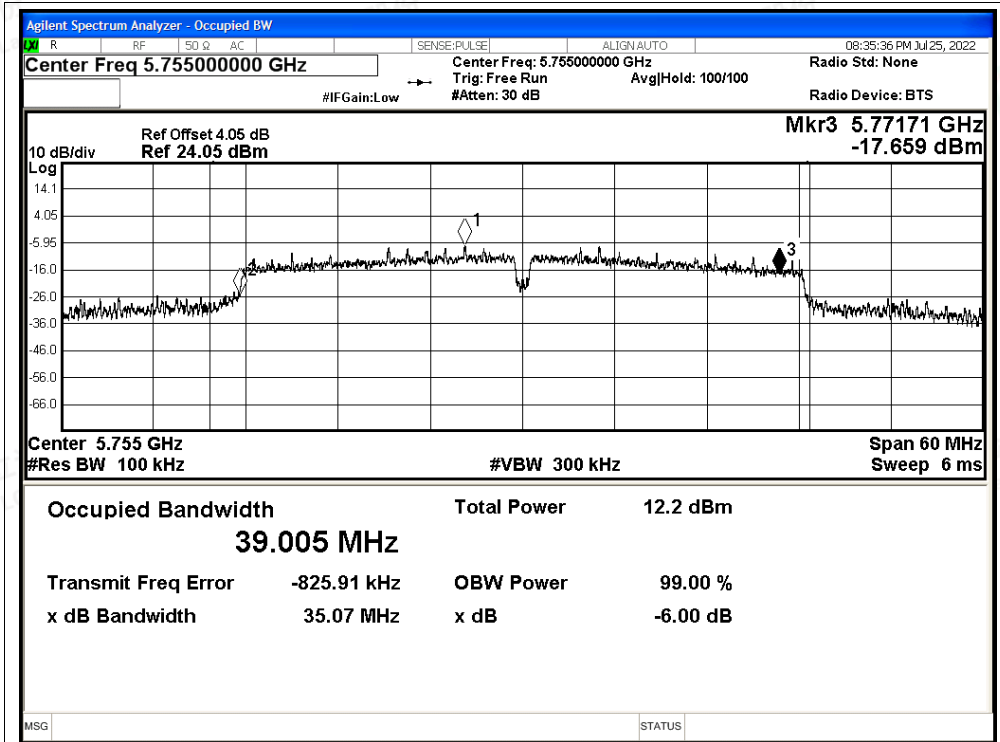
-6dB Bandwidth NVNT ac40 5795MHz Ant3



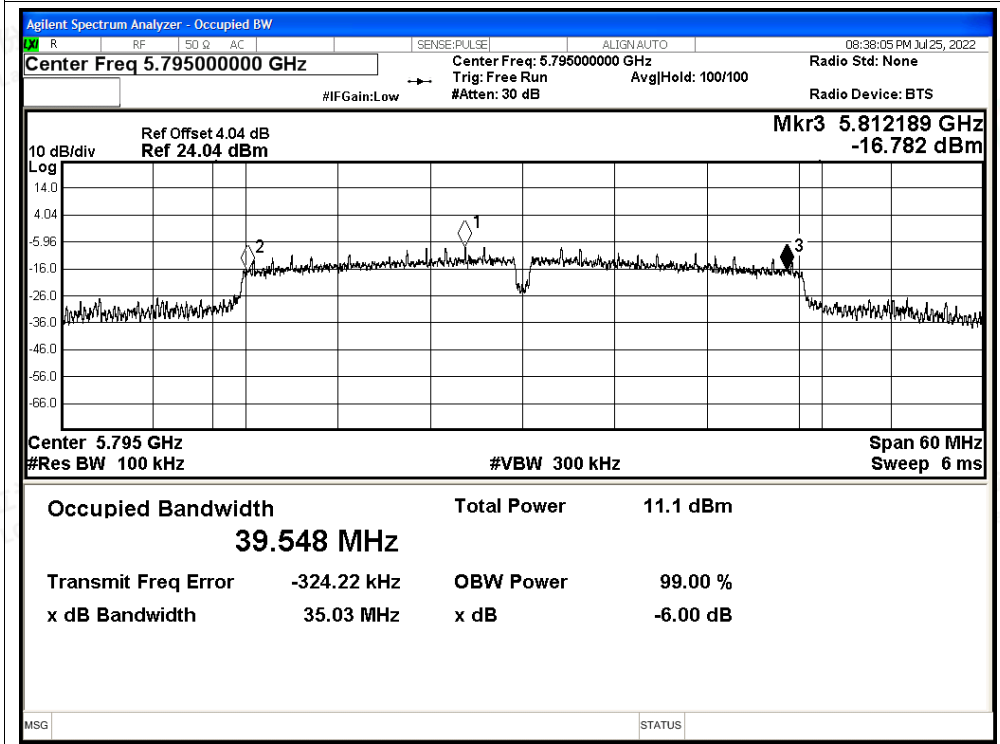
Test Graphs

-6dB Bandwidth NVNT ac40 5755MHz Ant4





-6dB Bandwidth NVNT ac40 5795MHz Ant4





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ac40	5755	Ant1	11.24	0.22	11.46	30	Pass
NVNT	ac40	5795	Ant1	10.21	0.22	10.43	30	Pass
NVNT	ac40	5755	Ant2	11.32	0.22	11.54	30	Pass
NVNT	ac40	5795	Ant2	10.08	0.22	10.3	30	Pass
NVNT	ac40	5755	Ant3	11.38	0.22	11.60	30	Pass
NVNT	ac40	5795	Ant3	10.11	0.22	10.33	30	Pass
NVNT	ac40	5755	Ant4	11.4	0.22	11.62	30	Pass
NVNT	ac40	5795	Ant4	10.12	0.22	10.34	30	Pass

MIMO

TestMode	Channel	Ant 1 [Dbm]	Ant 2 [Dbm]	Ant 3 [Dbm]	Ant 4 [Dbm]	MIMO [dBm]	Limit [dBm]	Verdict
11AC40	5755	11.46	11.54	11.60	11.62	17.58	≤24.98	PASS
	5795	10.43	10.3	10.33	10.34	16.37	≤24.98	PASS





B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ac40	5755	Ant1	-7.6	0.22	-7.38	30	Pass
NVNT	ac40	5795	Ant1	-8.21	0.22	-7.99	30	Pass
NVNT	ac40	5755	Ant2	-7.89	0.22	-7.67	30	Pass
NVNT	ac40	5795	Ant2	-8.97	0.22	-8.75	30	Pass
NVNT	ac40	5755	Ant3	-7.86	0.22	-7.64	30	Pass
NVNT	ac40	5795	Ant3	-8.15	0.22	-7.93	30	Pass
NVNT	ac40	5755	Ant4	-6.78	0.22	-6.56	30	Pass
NVNT	ac40	5795	Ant4	-8.52	0.22	-8.3	30	Pass

MIMO

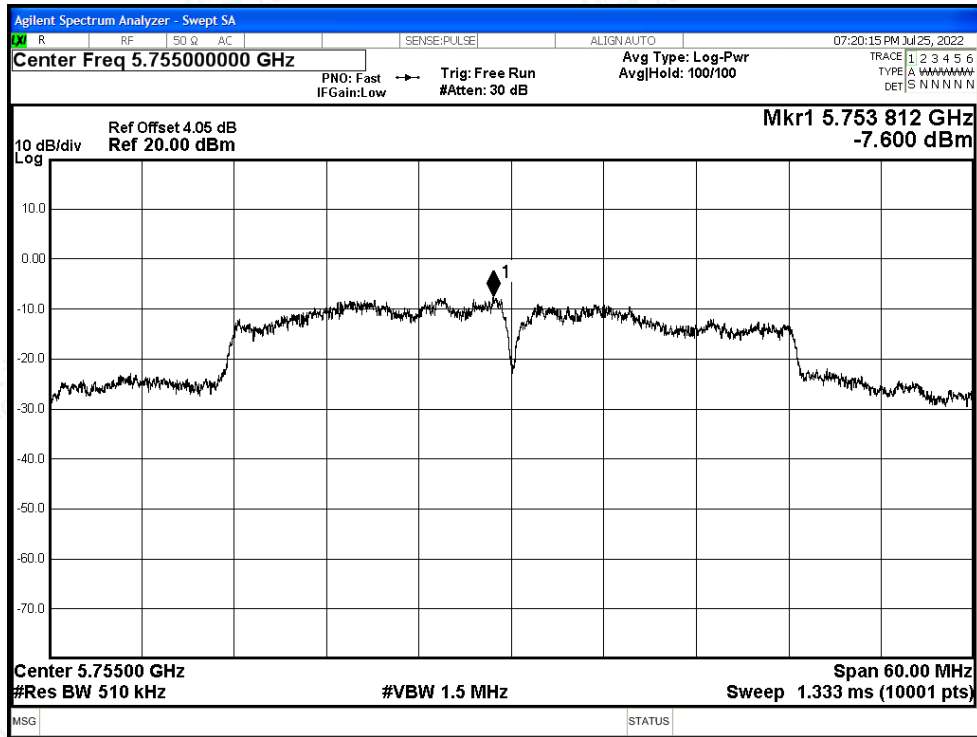
Test Mode	Frequency (MHz)	Ant 1 Power Density (Dbm /Mhz)	Ant 2 Power Density (Dbm /Mhz)	Ant 3 Power Density (Dbm /Mhz)	Ant 4 Power Density (Dbm /Mhz)	MIMO Power Density (dBm /MHz)	Limit (dBm /MHz)	Verdict
11AC40	5755	-7.38	-7.67	-7.64	-6.56	-1.27	24.98	Pass
	5795	-7.99	-8.75	-7.93	-8.3	-2.21		Pass





Test Graphs

PSD NVNT ac40 5755MHz Ant1



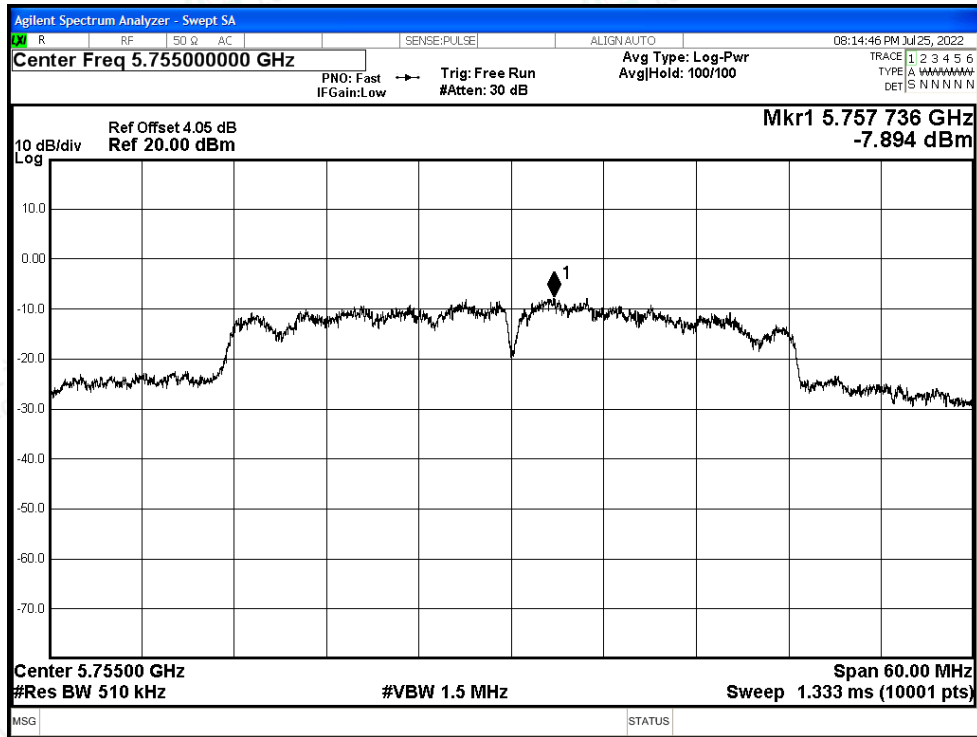
PSD NVNT ac40 5795MHz Ant1



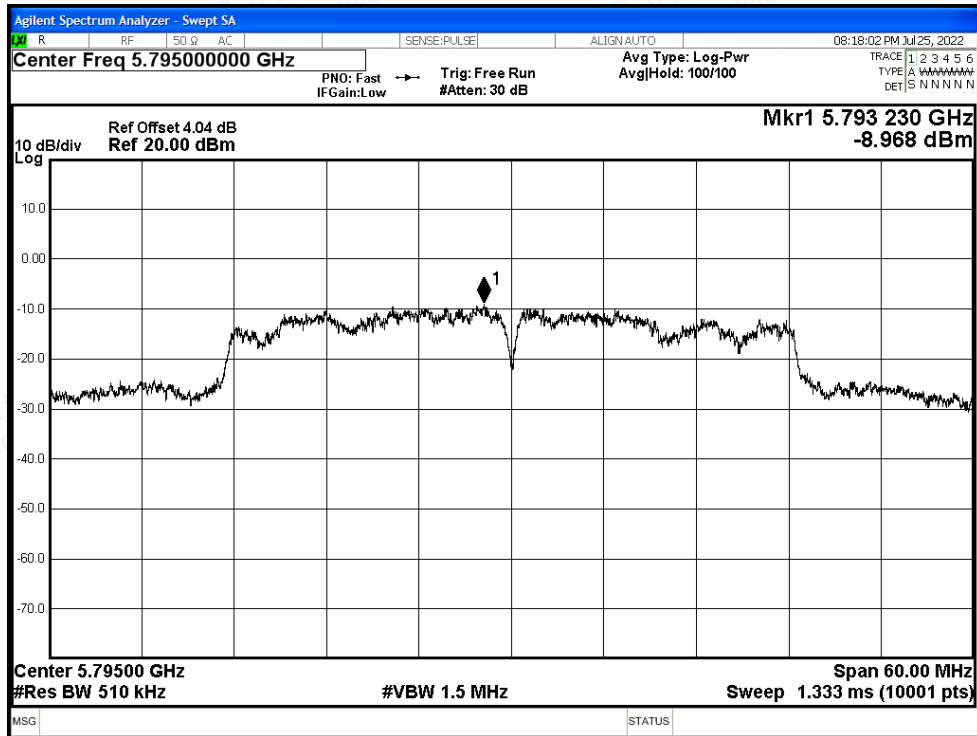


Test Graphs

PSD NVNT ac40 5755MHz Ant2



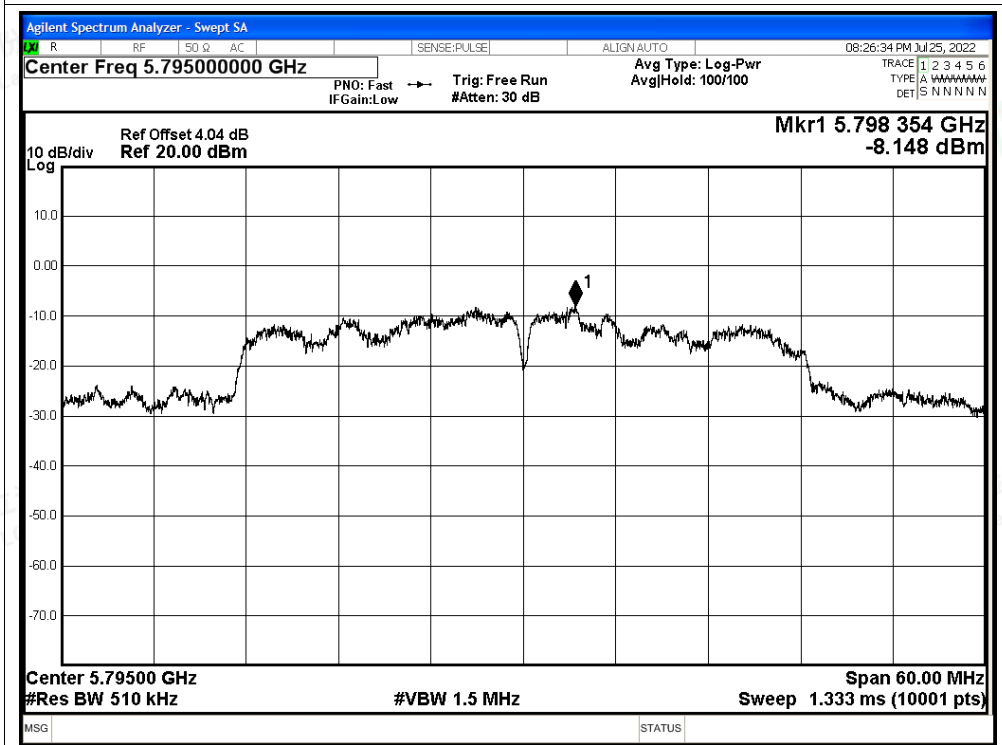
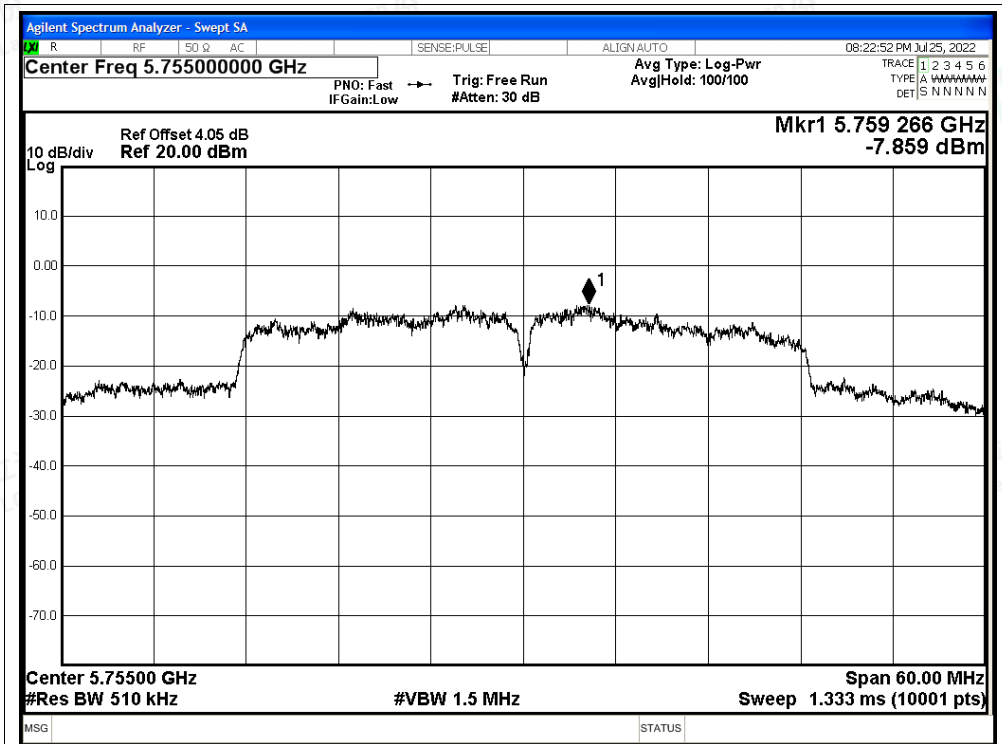
PSD NVNT ac40 5795MHz Ant2

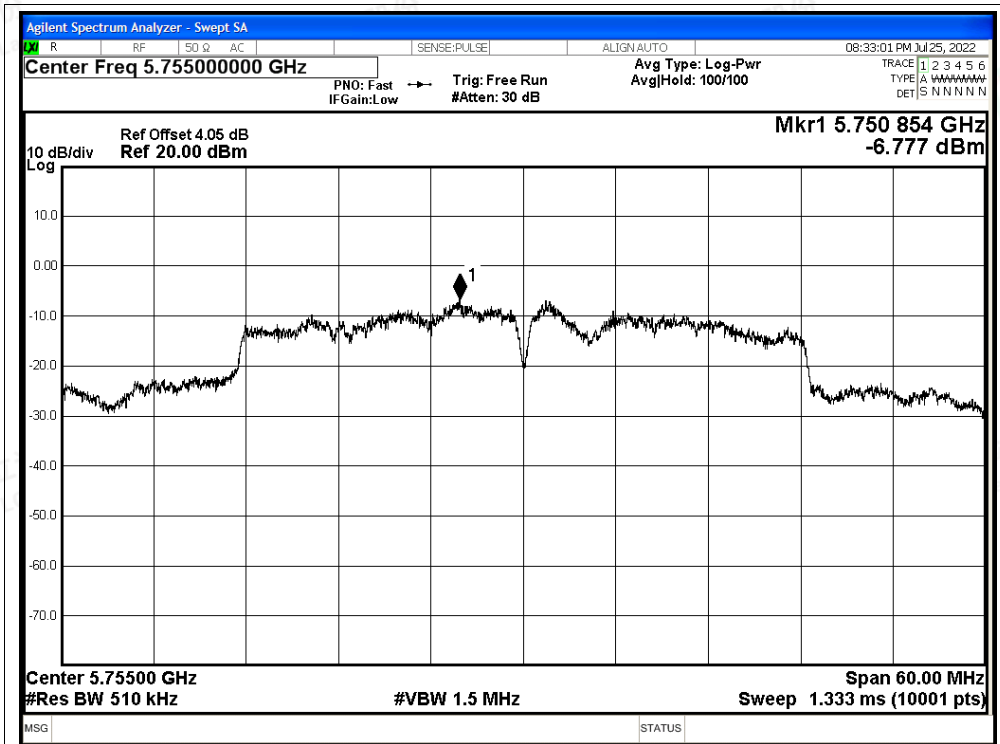


Test Graphs

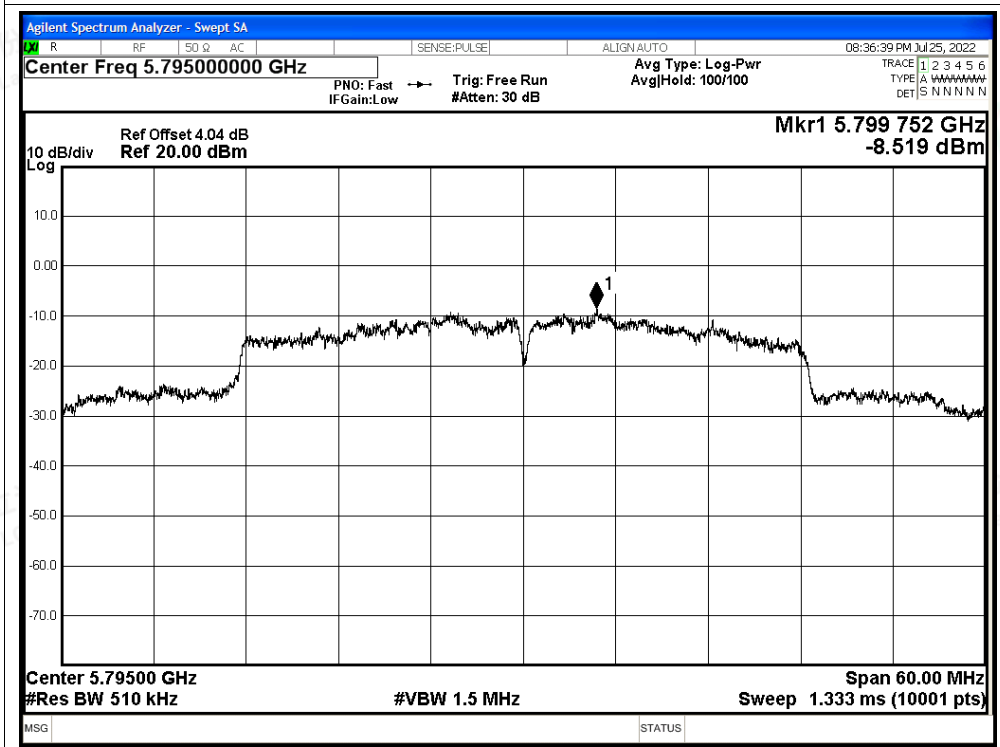
PSD NVNT ac40 5755MHz Ant3







PSD NVNT ac40 5795MHz Ant4





B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Detector	Limit (dBm/MHZ)	Verdict
NVNT	ac40	5755	Ant1	5650	-48.84	5	-43.84	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-57.94	5	-52.94	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-49.56	5	-44.56	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-57.61	5	-52.61	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-43.42	5	-38.42	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-53.13	5	-48.13	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-40.03	5	-35.03	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-51.42	5	-46.42	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-48.63	5	-43.63	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-57.55	5	-52.55	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-49.78	5	-44.78	Peak	15.6	Pass
NVNT	ac40	5795	Ant1	5855	-57.42	5	-52.42	Average	15.6	Pass
NVNT	ac40	5795	Ant1	5875	-50.02	5	-45.02	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-57.05	5	-52.05	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-47.76	5	-42.76	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-57.64	5	-52.64	Average	-27	Pass

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Detector	Limit (dBm/MHZ)	Verdict
NVNT	ac40	5755	Ant2	5650	-47.96	5	-42.96	Peak	-27	Pass
NVNT	ac40	5755	Ant2	5650	-58.43	5	-53.43	Average	-27	Pass
NVNT	ac40	5755	Ant2	5700	-49.44	5	-44.44	Peak	10	Pass
NVNT	ac40	5755	Ant2	5700	-57.73	5	-52.73	Average	10	Pass
NVNT	ac40	5755	Ant2	5720	-42.91	5	-37.91	Peak	15.6	Pass
NVNT	ac40	5755	Ant2	5720	-54.9	5	-49.9	Average	15.6	Pass
NVNT	ac40	5755	Ant2	5725	-41.96	5	-36.96	Peak	27	Pass
NVNT	ac40	5755	Ant2	5725	-53.61	5	-48.61	Average	27	Pass
NVNT	ac40	5795	Ant2	5850	-48.2	5	-43.2	Peak	27	Pass
NVNT	ac40	5795	Ant2	5850	-57.86	5	-52.86	Average	27	Pass
NVNT	ac40	5795	Ant2	5855	-46.29	5	-41.29	Peak	15.6	Pass
NVNT	ac40	5795	Ant2	5855	-58.45	5	-53.45	Average	15.6	Pass
NVNT	ac40	5795	Ant2	5875	-48.15	5	-43.15	Peak	10	Pass
NVNT	ac40	5795	Ant2	5875	-57.5	5	-52.5	Average	10	Pass
NVNT	ac40	5795	Ant2	5925	-48.88	5	-43.88	Peak	-27	Pass
NVNT	ac40	5795	Ant2	5925	-57.57	5	-52.57	Average	-27	Pass



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Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Detector	Limit (dBm/MHZ)	Verdict
NVNT	ac40	5755	Ant3	5650	-48	5	-43	Peak	-27	Pass
NVNT	ac40	5755	Ant3	5650	-58.27	5	-53.27	Average	-27	Pass
NVNT	ac40	5755	Ant3	5700	-47.84	5	-42.84	Peak	10	Pass
NVNT	ac40	5755	Ant3	5700	-58.1	5	-53.1	Average	10	Pass
NVNT	ac40	5755	Ant3	5720	-44.9	5	-39.9	Peak	15.6	Pass
NVNT	ac40	5755	Ant3	5720	-54.83	5	-49.83	Average	15.6	Pass
NVNT	ac40	5755	Ant3	5725	-40.16	5	-35.16	Peak	27	Pass
NVNT	ac40	5755	Ant3	5725	-53	5	-48	Average	27	Pass
NVNT	ac40	5795	Ant3	5850	-49.75	5	-44.75	Peak	27	Pass
NVNT	ac40	5795	Ant3	5850	-58.2	5	-53.2	Average	27	Pass
NVNT	ac40	5795	Ant3	5855	-50.16	5	-45.16	Peak	15.6	Pass
NVNT	ac40	5795	Ant3	5855	-57.96	5	-52.96	Average	15.6	Pass
NVNT	ac40	5795	Ant3	5875	-45.89	5	-40.89	Peak	10	Pass
NVNT	ac40	5795	Ant3	5875	-57.8	5	-52.8	Average	10	Pass
NVNT	ac40	5795	Ant3	5925	-48.47	5	-43.47	Peak	-27	Pass
NVNT	ac40	5795	Ant3	5925	-57.56	5	-52.56	Average	-27	Pass

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Detector	Limit (dBm/MHZ)	Verdict
NVNT	ac40	5755	Ant4	5650	-49.85	5	-44.85	Peak	-27	Pass
NVNT	ac40	5755	Ant4	5650	-57.96	5	-52.96	Average	-27	Pass
NVNT	ac40	5755	Ant4	5700	-48.36	5	-43.36	Peak	10	Pass
NVNT	ac40	5755	Ant4	5700	-57.41	5	-52.41	Average	10	Pass
NVNT	ac40	5755	Ant4	5720	-44.56	5	-39.56	Peak	15.6	Pass
NVNT	ac40	5755	Ant4	5720	-54.13	5	-49.13	Average	15.6	Pass
NVNT	ac40	5755	Ant4	5725	-42.11	5	-37.11	Peak	27	Pass
NVNT	ac40	5755	Ant4	5725	-52.98	5	-47.98	Average	27	Pass
NVNT	ac40	5795	Ant4	5850	-48.97	5	-43.97	Peak	27	Pass
NVNT	ac40	5795	Ant4	5850	-57.75	5	-52.75	Average	27	Pass
NVNT	ac40	5795	Ant4	5855	-49.52	5	-44.52	Peak	15.6	Pass
NVNT	ac40	5795	Ant4	5855	-57.7	5	-52.7	Average	15.6	Pass
NVNT	ac40	5795	Ant4	5875	-48.86	5	-43.86	Peak	10	Pass
NVNT	ac40	5795	Ant4	5875	-57.64	5	-52.64	Average	10	Pass
NVNT	ac40	5795	Ant4	5925	-48.47	5	-43.47	Peak	-27	Pass
NVNT	ac40	5795	Ant4	5925	-57.43	5	-52.43	Average	-27	Pass



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MIMO-11AC40-5755

Spur Freq (MHz)	Ant 1 [Dbm]	Ant 2 [Dbm]	Ant 3 [Dbm]	Ant 4 [Dbm]	MIMO (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Limit (dBm/MHZ)	Detector	Verdict
5650	-48.84	-47.96	-48	-49.85	-42.58	11.02	-31.56	-27	Peak	Pass
5650	-57.94	-58.43	-58.27	-57.96	-52.12	11.02	-41.1	-27	Average	Pass
5700	-49.56	-49.44	-47.84	-48.36	-42.72	11.02	-31.7	10	Peak	Pass
5700	-57.61	-57.73	-58.1	-57.41	-51.68	11.02	-40.66	10	Average	Pass
5720	-43.42	-54.9	-44.9	-44.56	-39.35	11.02	-28.33	15.6	Peak	Pass
5720	-53.13	-41.96	-54.83	-54.13	-41.21	11.02	-30.19	15.6	Average	Pass
5725	-40.03	-41.96	-40.16	-42.11	-34.94	11.02	-23.92	27	Peak	Pass
5725	-51.42	-53.61	-53	-52.98	-46.65	11.02	-35.63	27	Average	Pass

MIMO-11AC40-5795

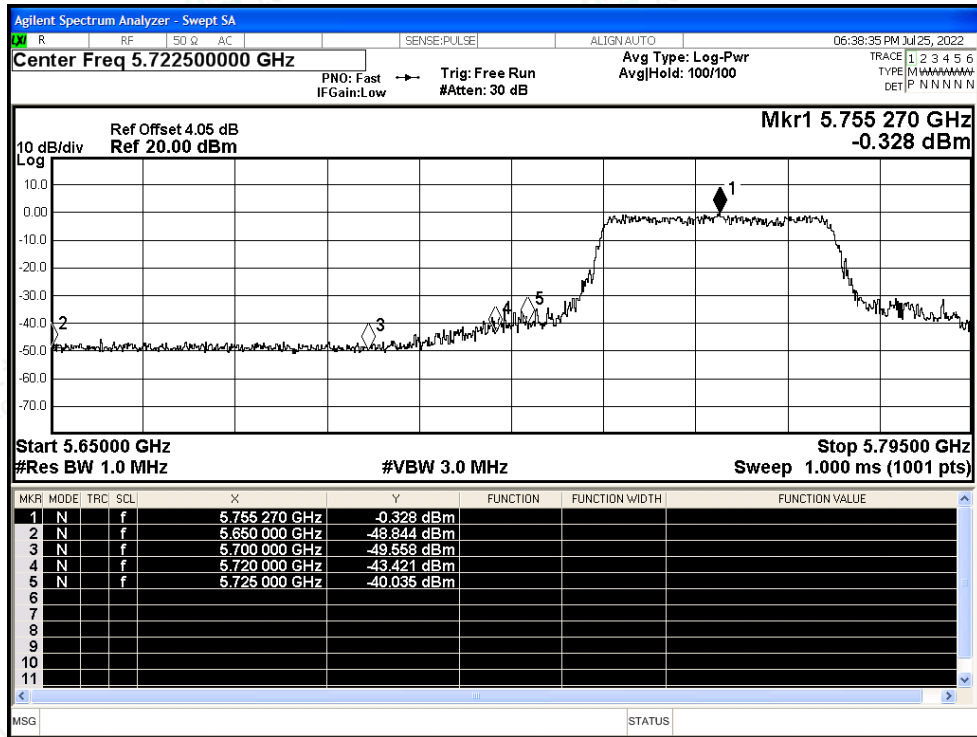
Spur Freq (MHz)	Ant 1 [Dbm]	Ant 2 [Dbm]	Ant 3 [Dbm]	Ant 4 [Dbm]	MIMO (dBm)	Gain (dBi)	EIRP (dBm/MHZ)	Limit (dBm/MHZ)	Detector	Verdict
5850	-48.63	-48.2	-49.75	-48.97	-42.83	11.02	-31.81	-27	Peak	Pass
5850	-57.55	-57.86	-58.2	-57.75	-51.81	11.02	-40.79	-27	Average	Pass
5855	-49.78	-46.29	-50.16	-49.52	-42.61	11.02	-31.59	10	Peak	Pass
5855	-57.42	-58.45	-57.96	-57.7	-51.85	11.02	-40.83	10	Average	Pass
5875	-50.02	-48.15	-45.89	-48.86	-41.94	11.02	-30.92	15.6	Peak	Pass
5875	-57.05	-57.5	-57.8	-57.64	-51.47	11.02	-40.45	15.6	Average	Pass
5925	-47.76	-48.88	-48.47	-48.47	-42.36	11.02	-31.34	27	Peak	Pass
5925	-57.64	-57.57	-57.56	-57.43	-51.53	11.02	-40.51	27	Average	Pass



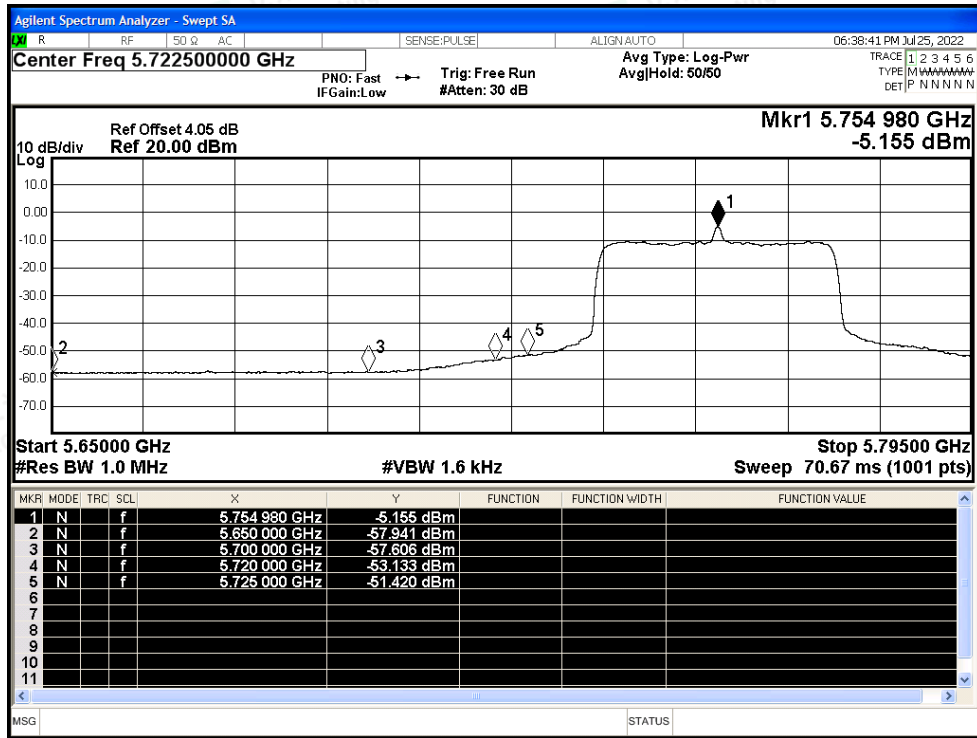


Test Graphs

Restrict Band NVNT ac40 5755MHz Ant1 Peak

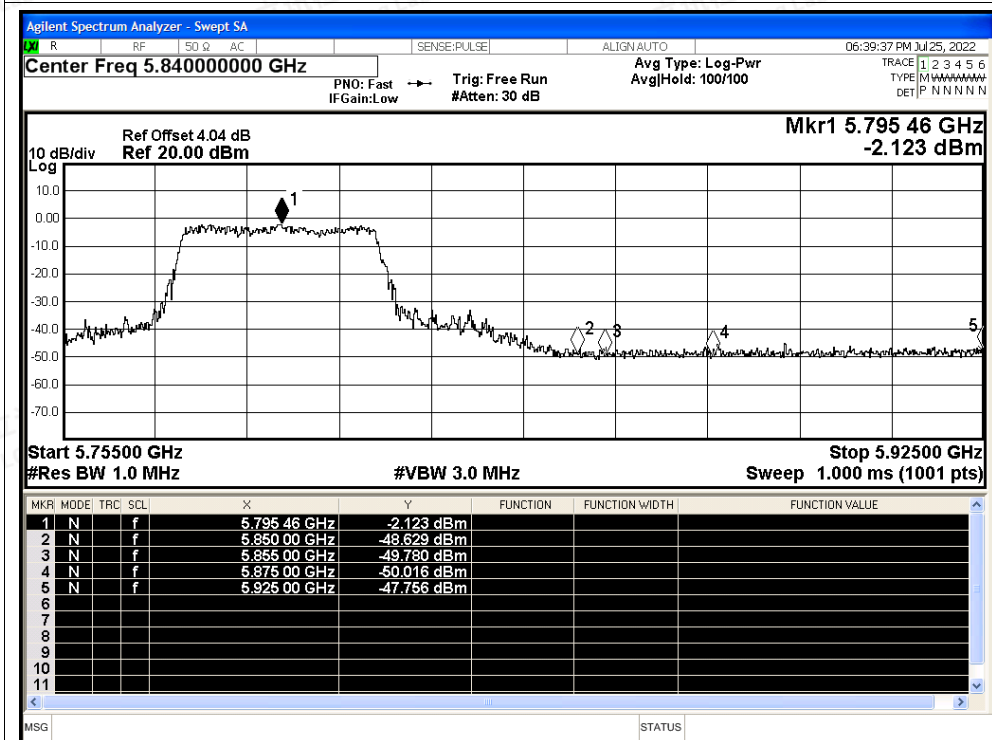


Restrict Band NVNT ac40 5755MHz Ant1 Average

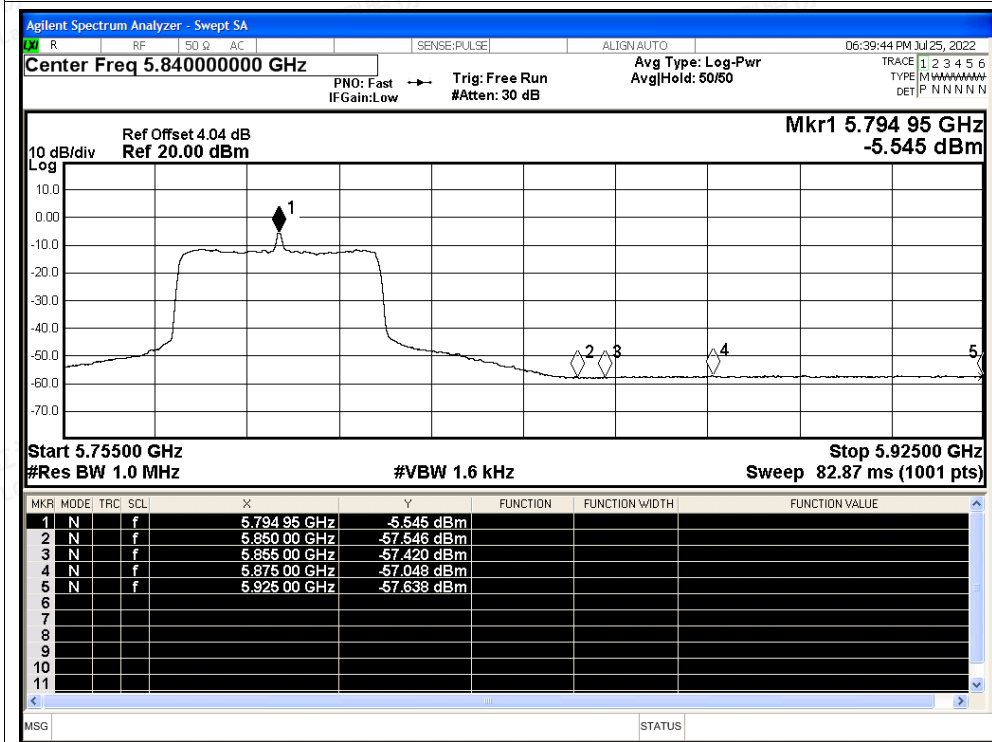




Restrict Band NVNT ac40 5795MHz Ant1 Peak

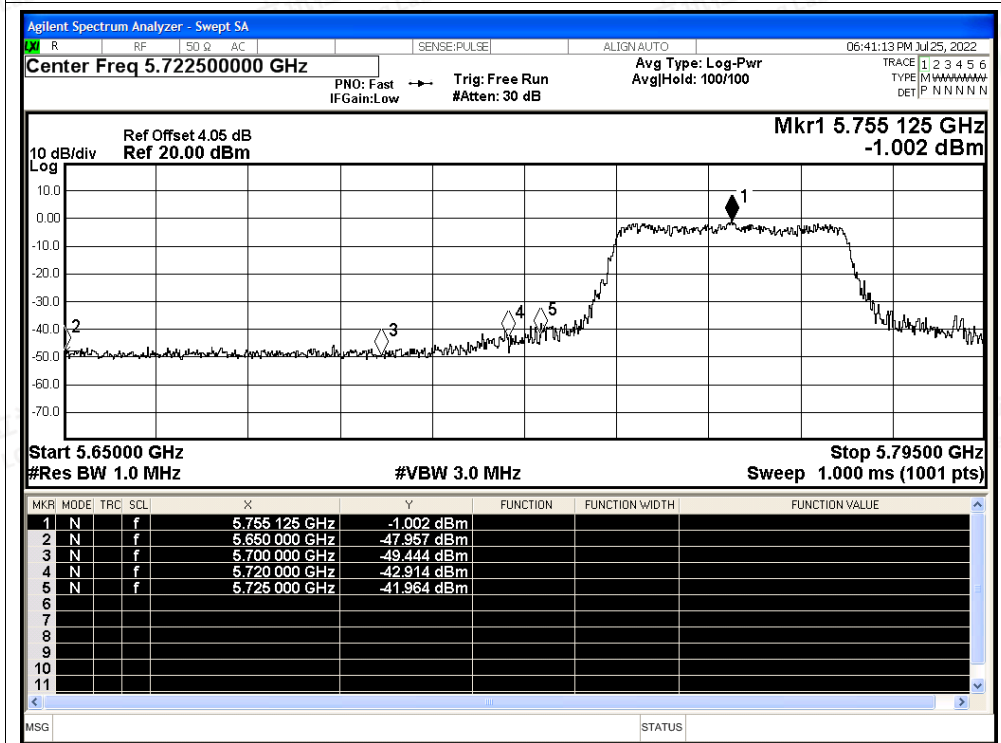


Restrict Band NVNT ac40 5795MHz Ant1 Average

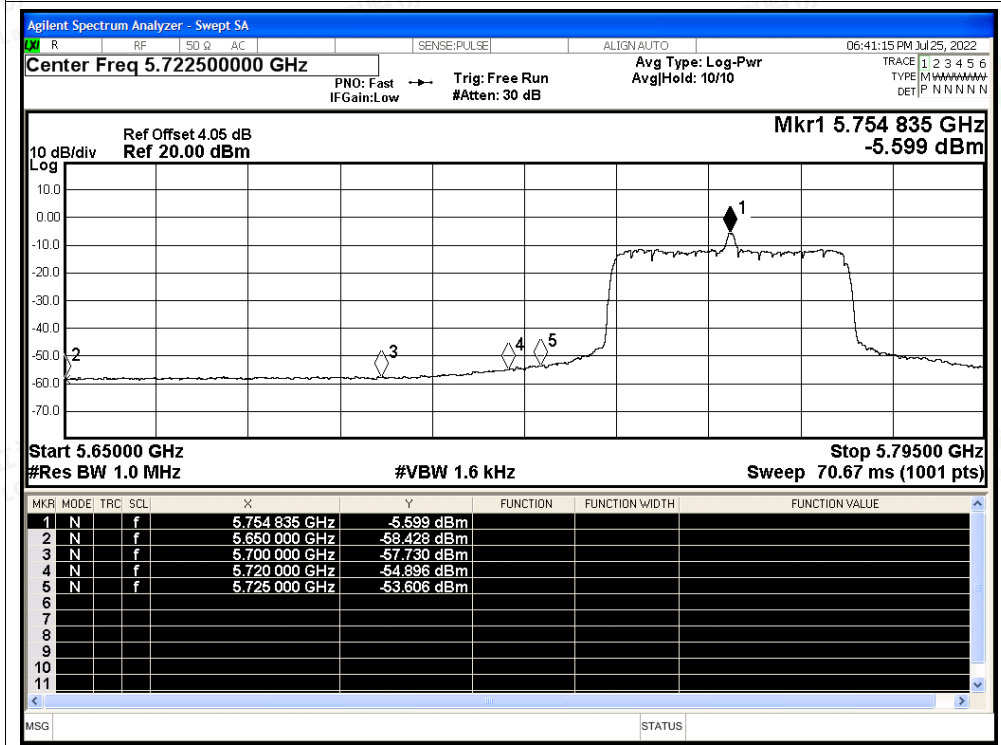




Restrict Band NVNT ac40 5755MHz Ant2 Peak

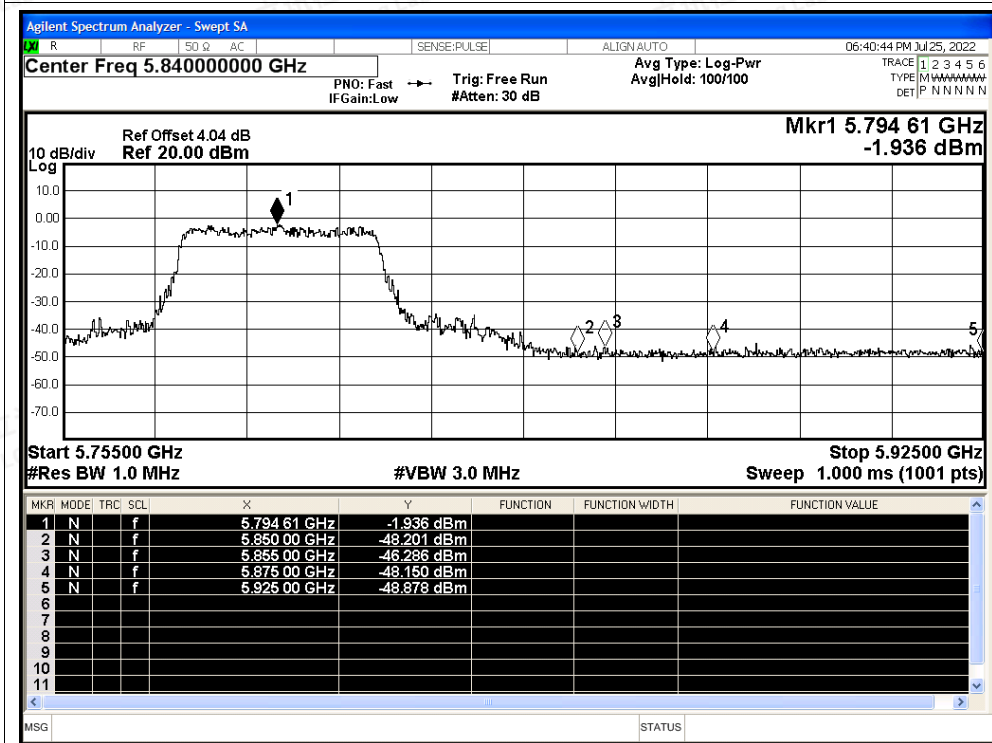


Restrict Band NVNT ac40 5755MHz Ant2 Average

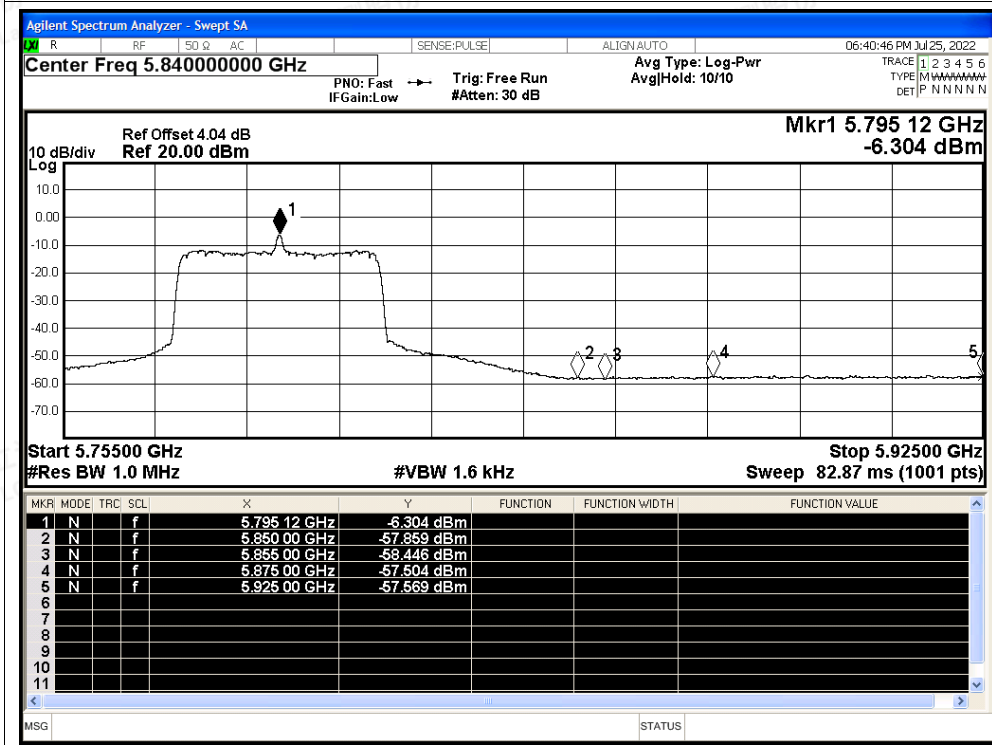




Restrict Band NVNT ac40 5795MHz Ant2 Peak



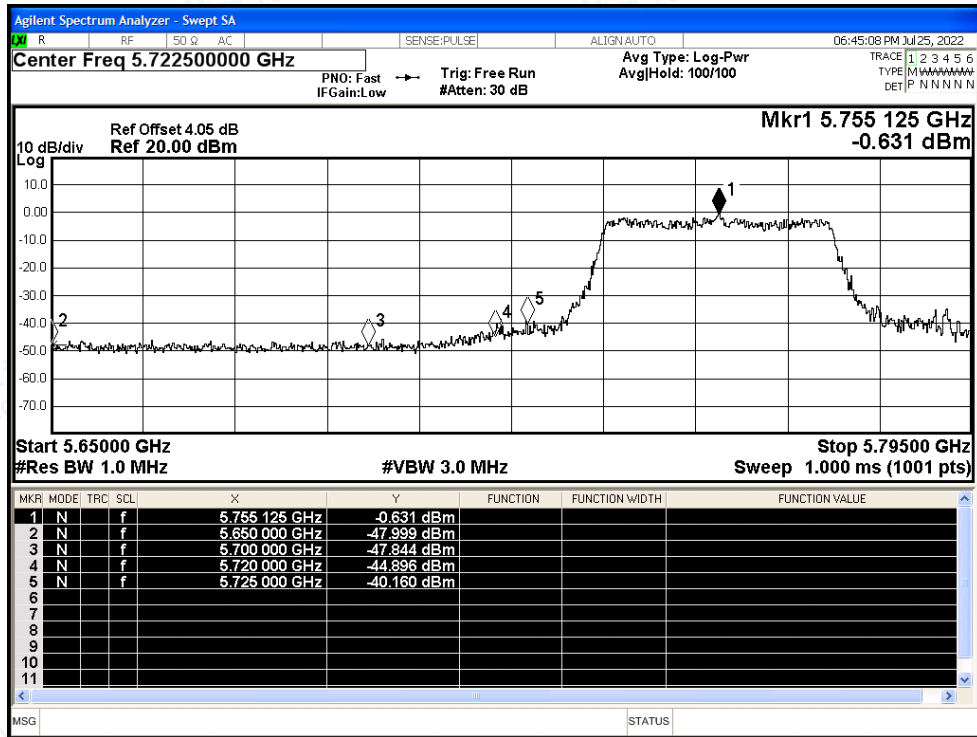
Restrict Band NVNT ac40 5795MHz Ant2 Average



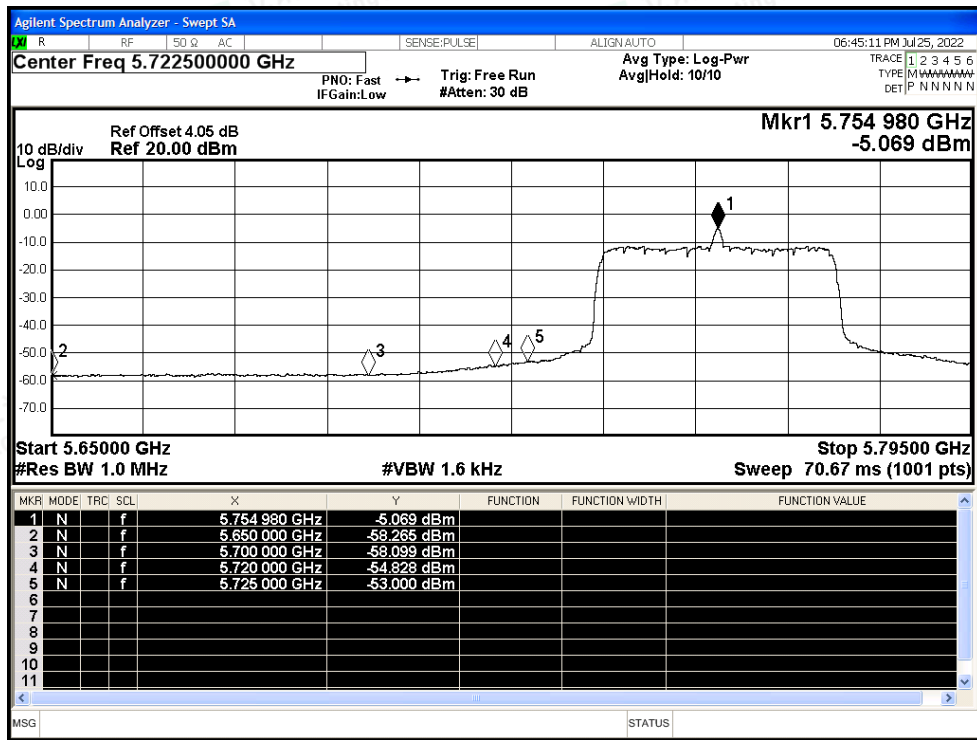


Test Graphs

Restrict Band NVNT ac40 5755MHz Ant3 Peak

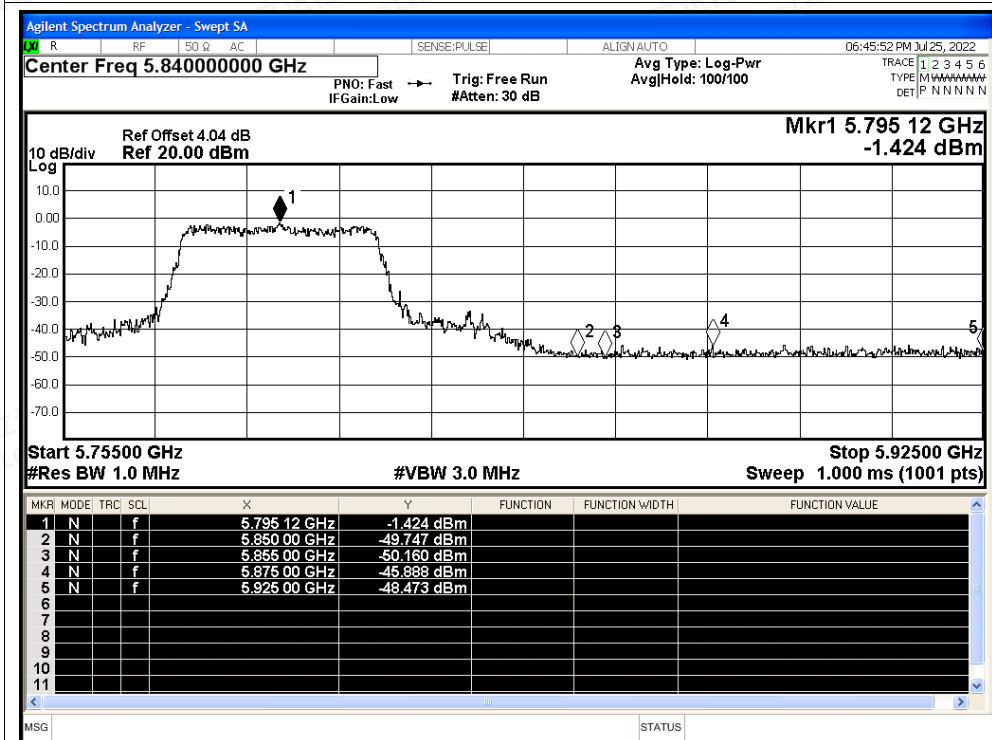


Restrict Band NVNT ac40 5755MHz Ant3 Average

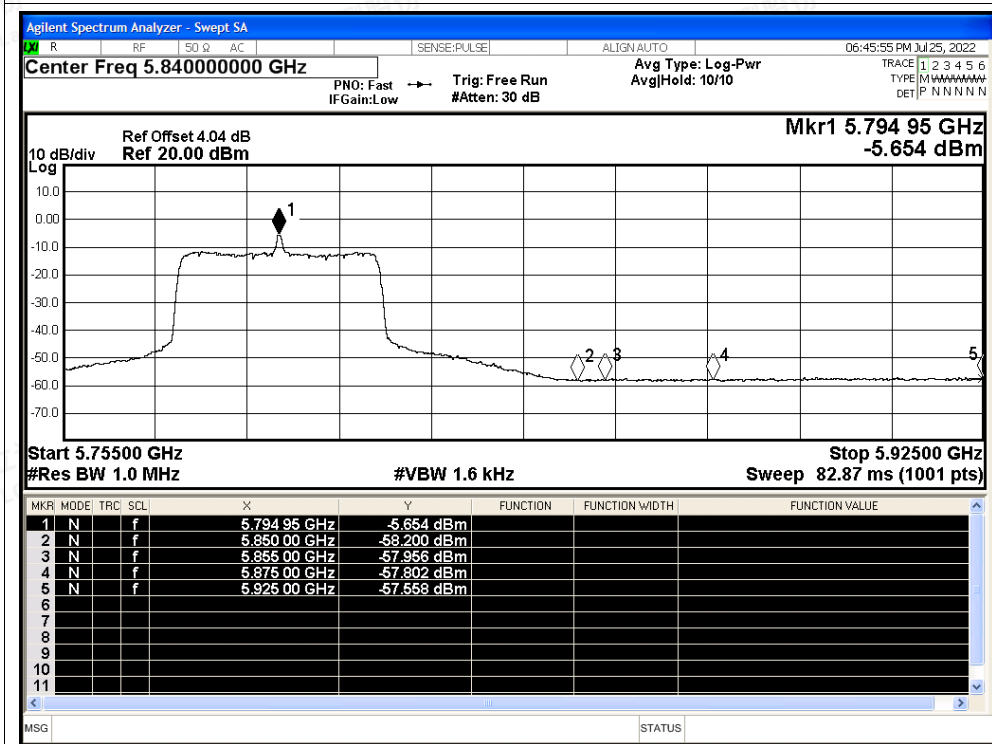




Restrict Band NVNT ac40 5795MHz Ant3 Peak



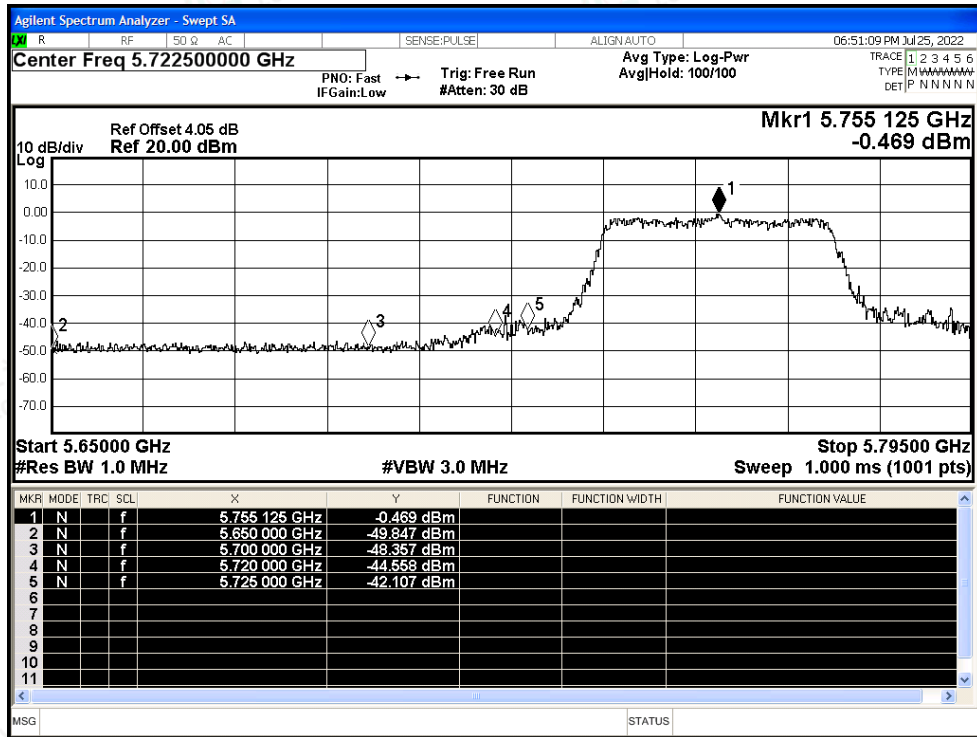
Restrict Band NVNT ac40 5795MHz Ant3 Average



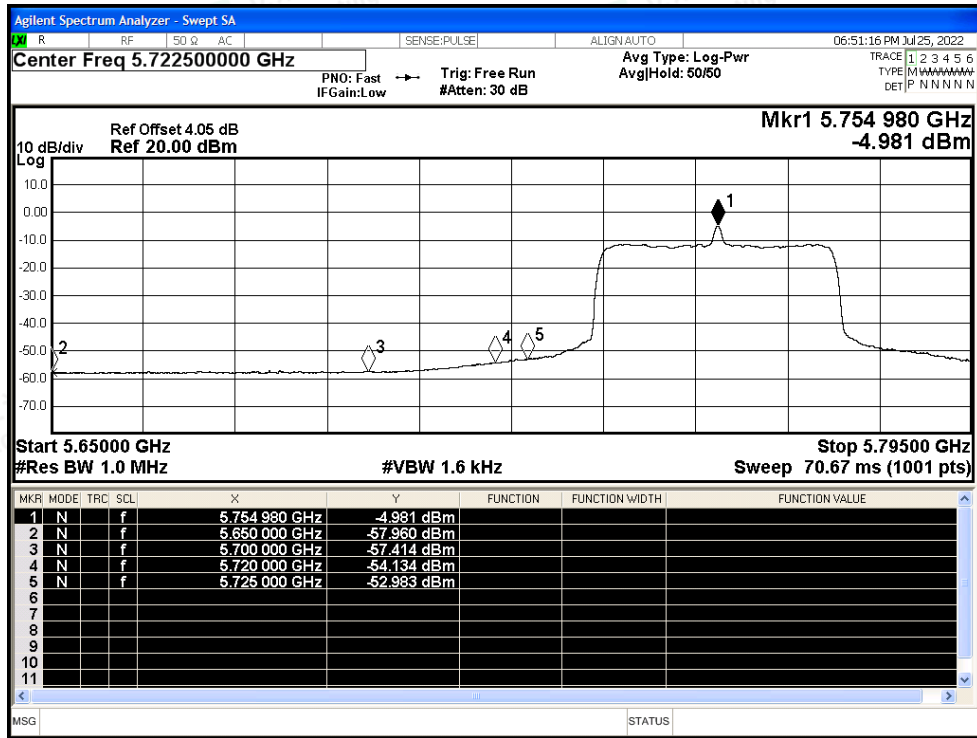


Test Graphs

Restrict Band NVNT ac40 5755MHz Ant4 Peak

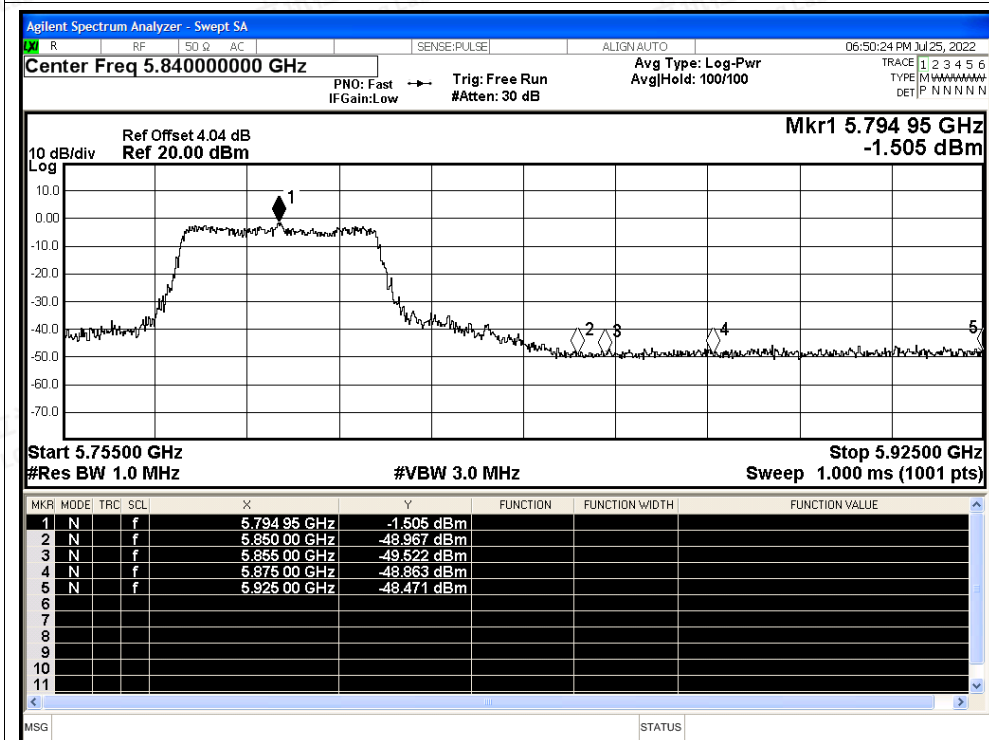


Restrict Band NVNT ac40 5755MHz Ant4 Average

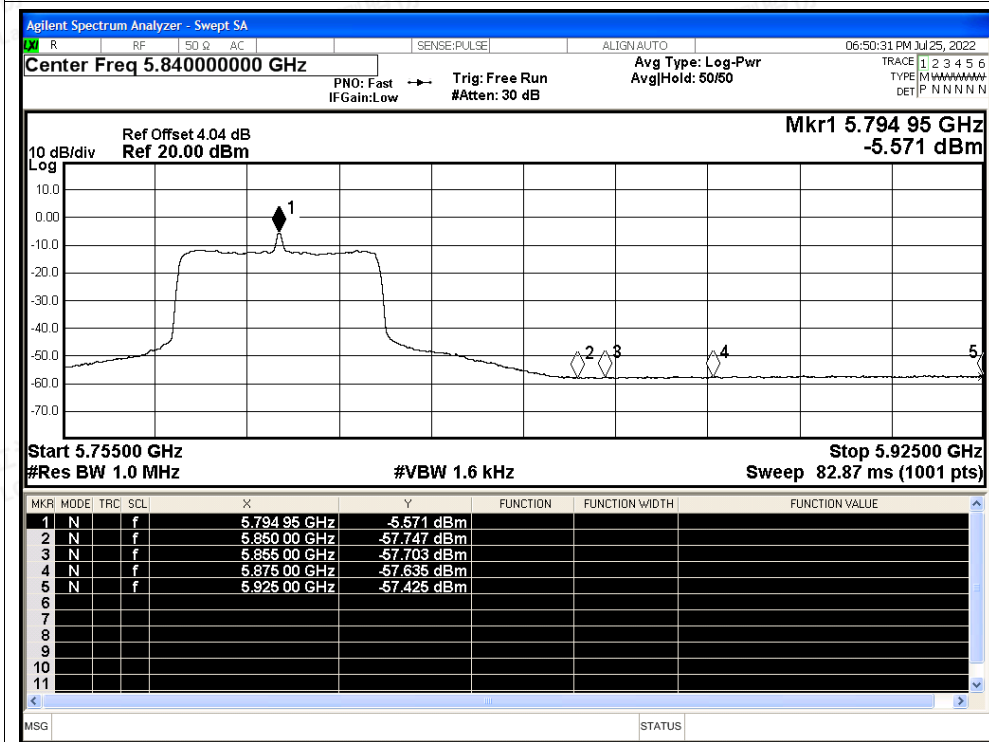




Restrict Band NVNT ac40 5795MHz Ant4 Peak



Restrict Band NVNT ac40 5795MHz Ant4 Average





B.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac40	5755	Ant1	5755	0	0	25	Pass
NVNT	ac40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac40	5755	Ant2	5755	0	0	25	Pass
NVNT	ac40	5795	Ant2	5795	0	0	25	Pass
NVNT	ac40	5755	Ant3	5755	0	0	25	Pass
NVNT	ac40	5795	Ant3	5795	0	0	25	Pass
NVNT	ac40	5755	Ant4	5754.96	-40000	-6.95	25	Pass
NVNT	ac40	5795	Ant4	5795	0	0	25	Pass

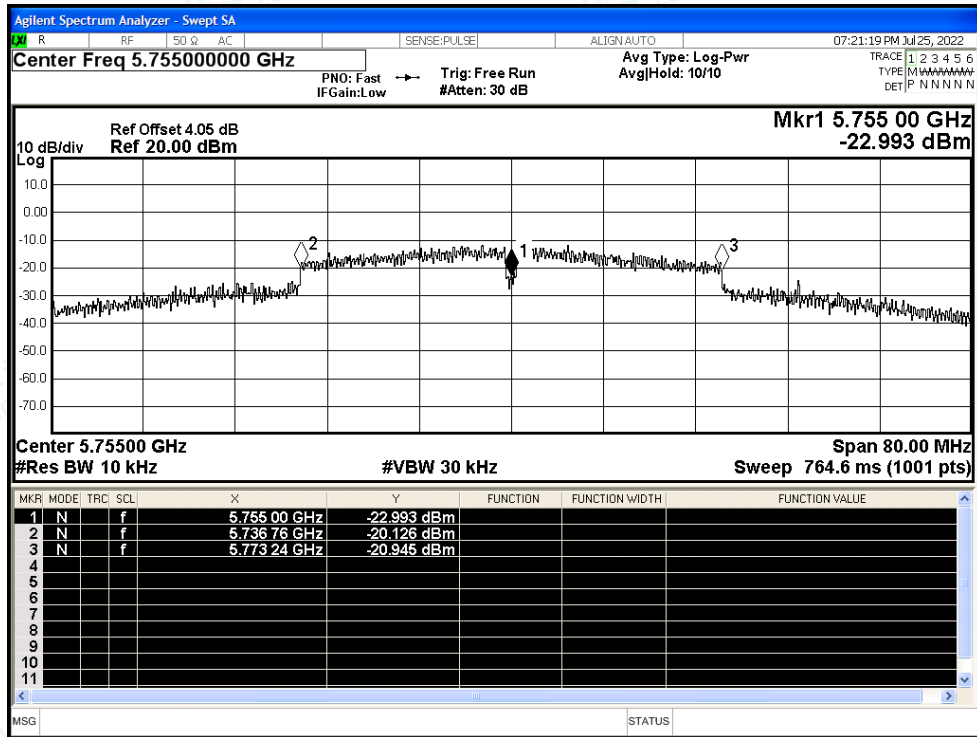


Shenzhen LCS Compliance Testing Laboratory Ltd.
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Scan code to check authenticity

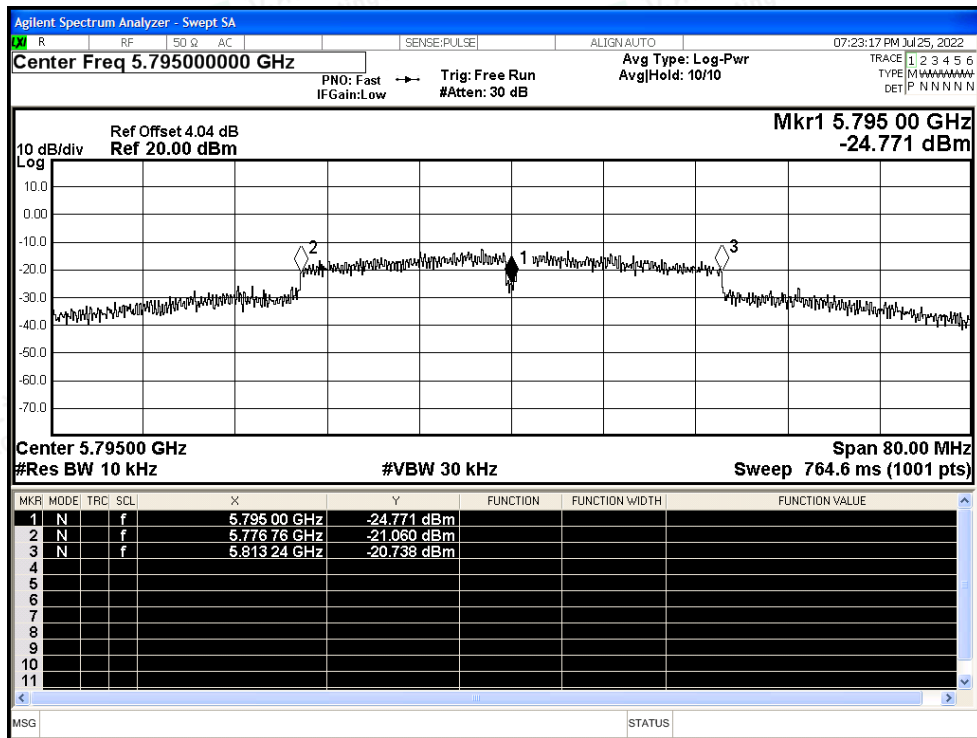


Test Graphs

Freq. Stability NVNT ac40 5755MHz Ant1



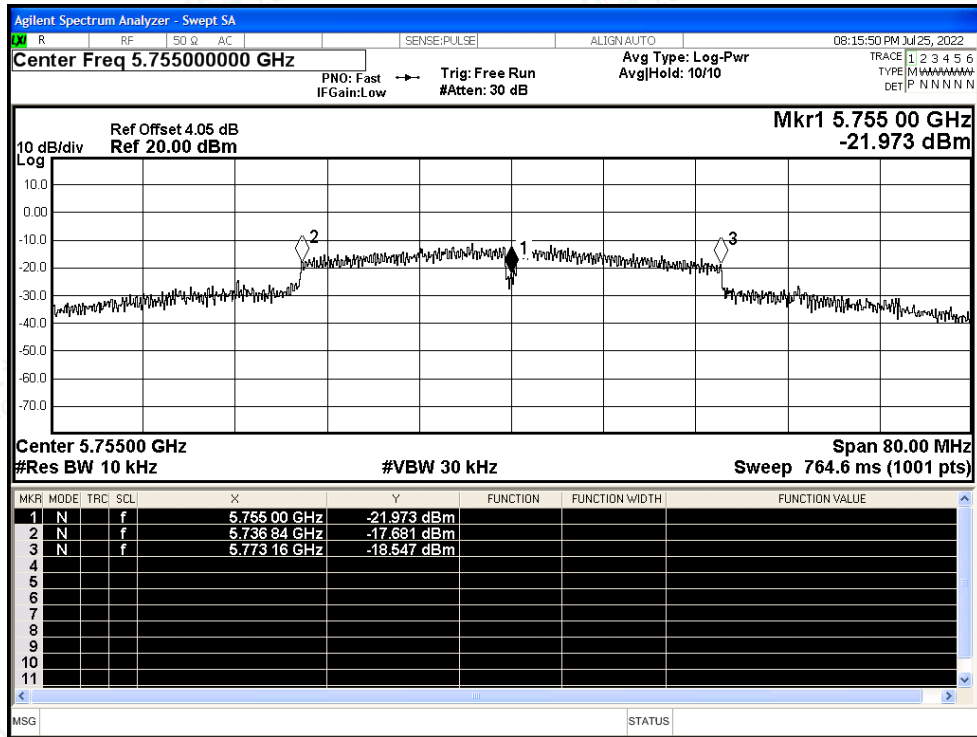
Freq. Stability NVNT ac40 5795MHz Ant1



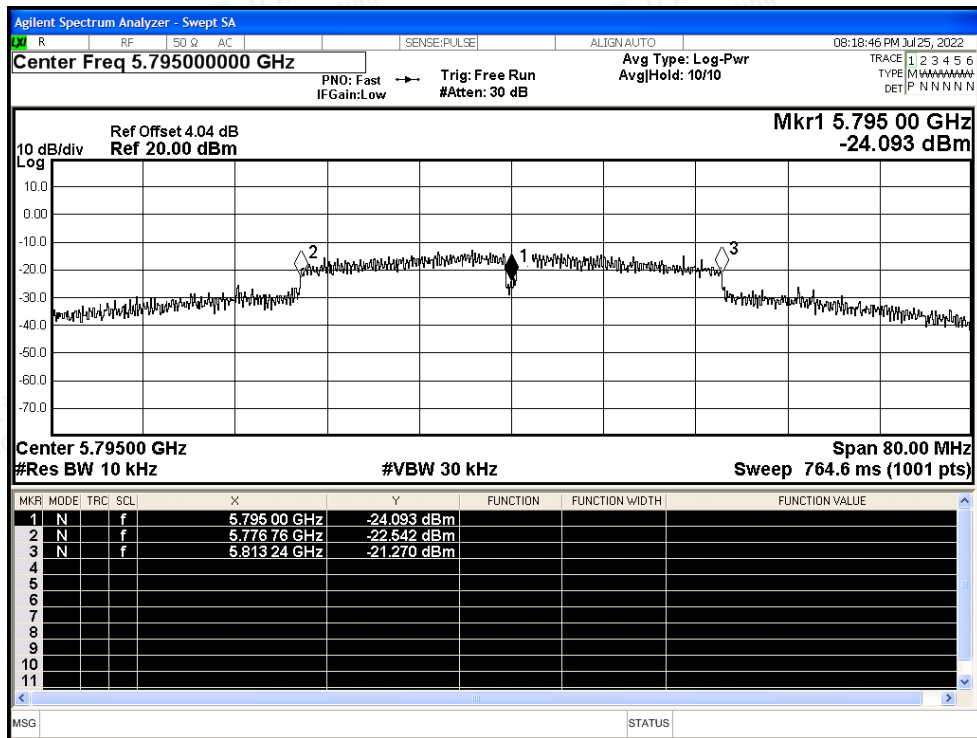


Test Graphs

Freq. Stability NVNT ac40 5755MHz Ant2



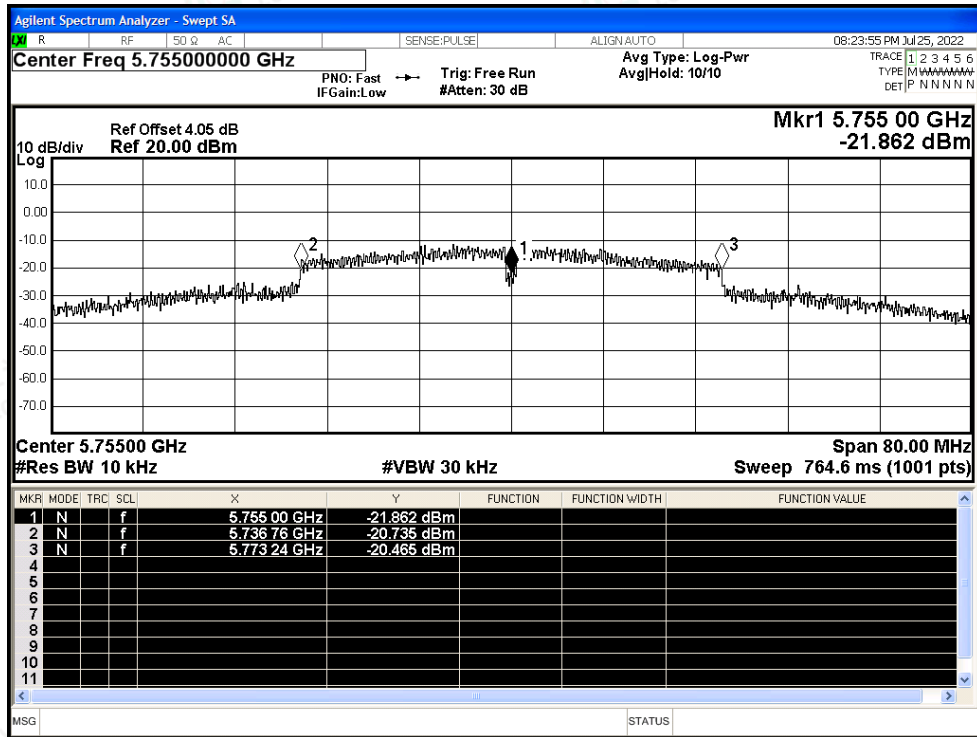
Freq. Stability NVNT ac40 5795MHz Ant2



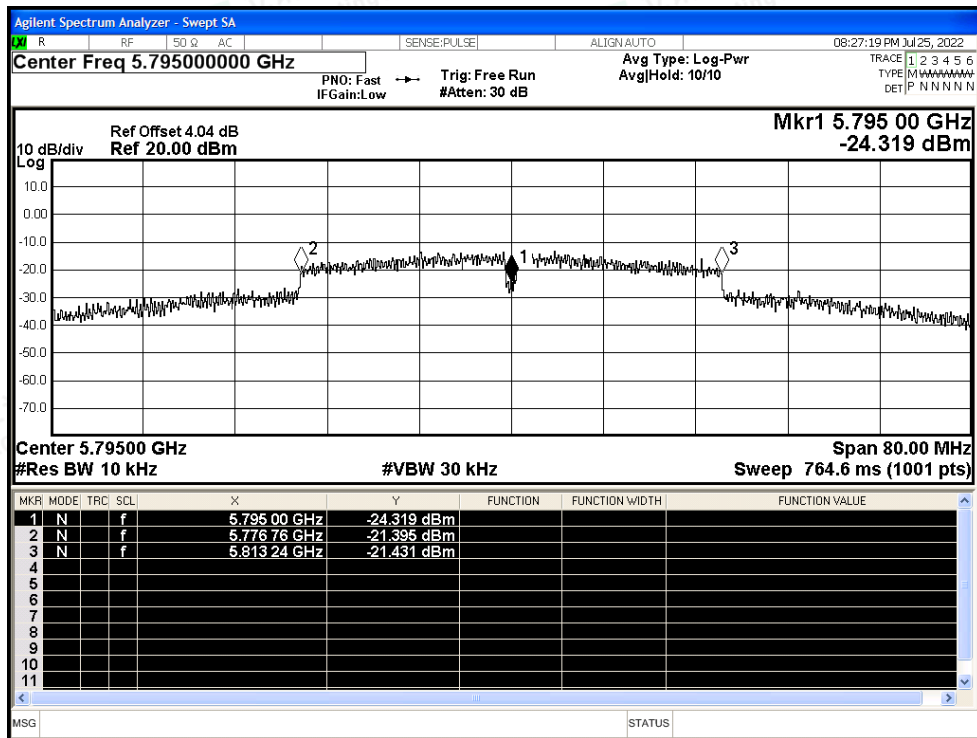


Test Graphs

Freq. Stability NVNT ac40 5755MHz Ant3



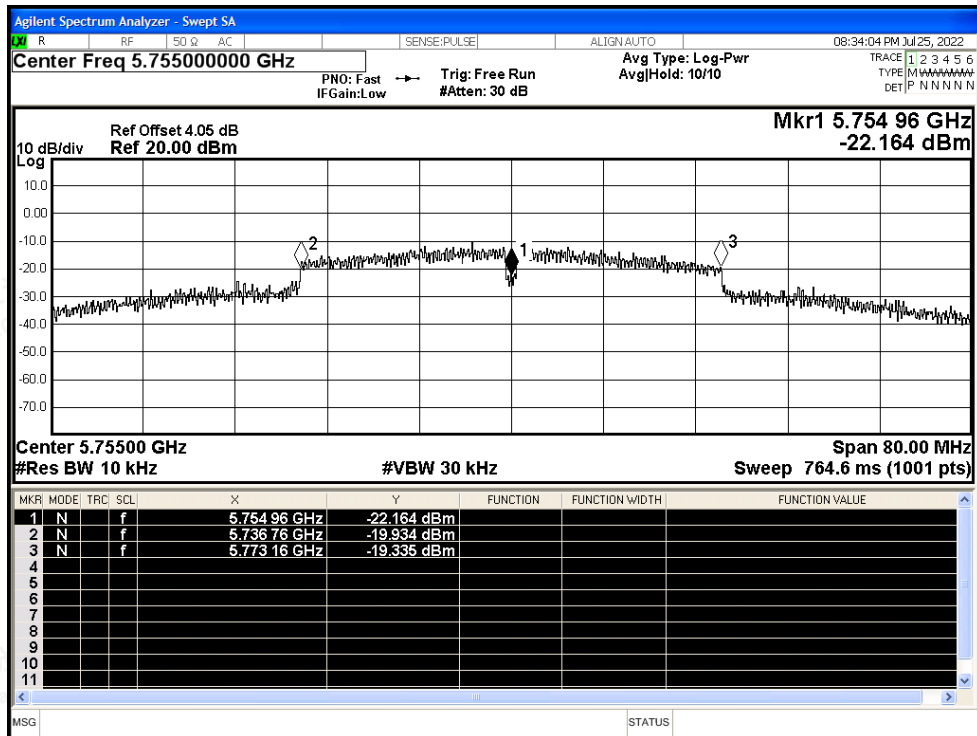
Freq. Stability NVNT ac40 5795MHz Ant3



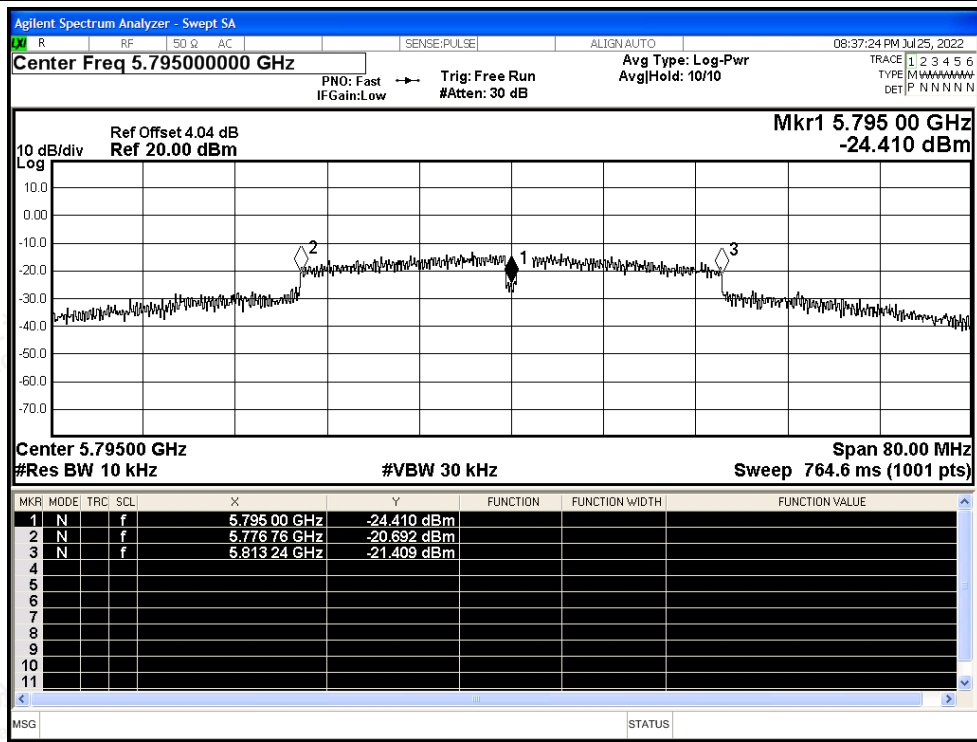


Test Graphs

Freq. Stability NVNT ac40 5755MHz Ant4



Freq. Stability NVNT ac40 5795MHz Ant4





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac40	5755	Ant1	95.02	0.22	1.54
NVNT	ac40	5795	Ant1	95.03	0.22	1.54
NVNT	ac40	5755	Ant2	95.06	0.22	1.53
NVNT	ac40	5795	Ant2	95.05	0.22	1.53
NVNT	ac40	5755	Ant3	95.05	0.22	1.53
NVNT	ac40	5795	Ant3	95.06	0.22	1.53
NVNT	ac40	5755	Ant4	95.05	0.22	1.53
NVNT	ac40	5795	Ant4	95.05	0.22	1.53

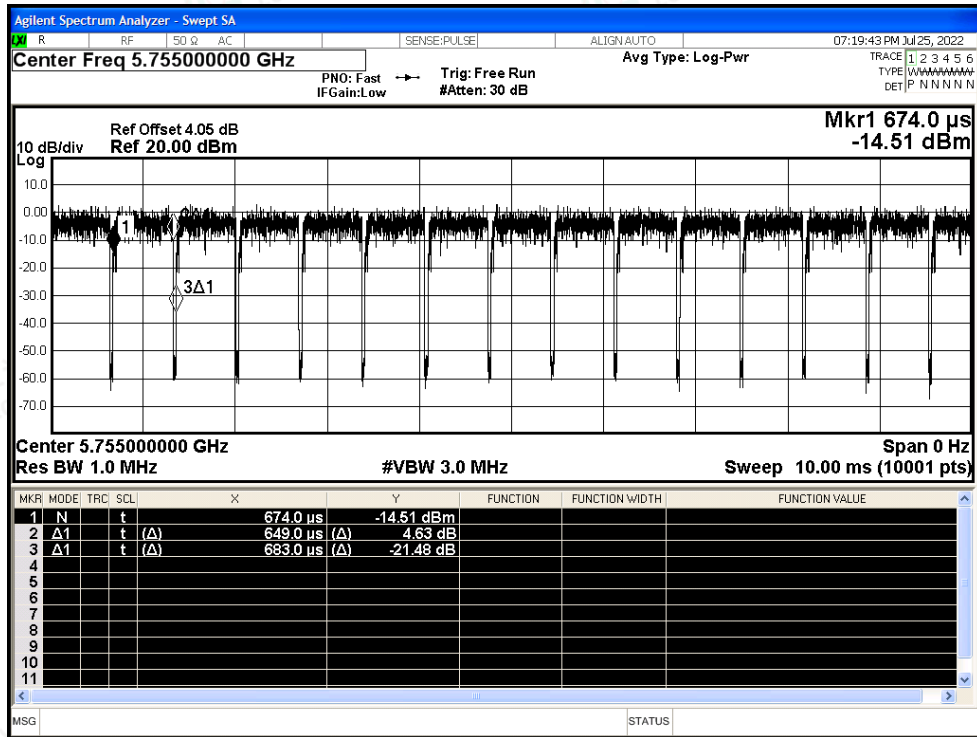


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Scan code to check authenticity

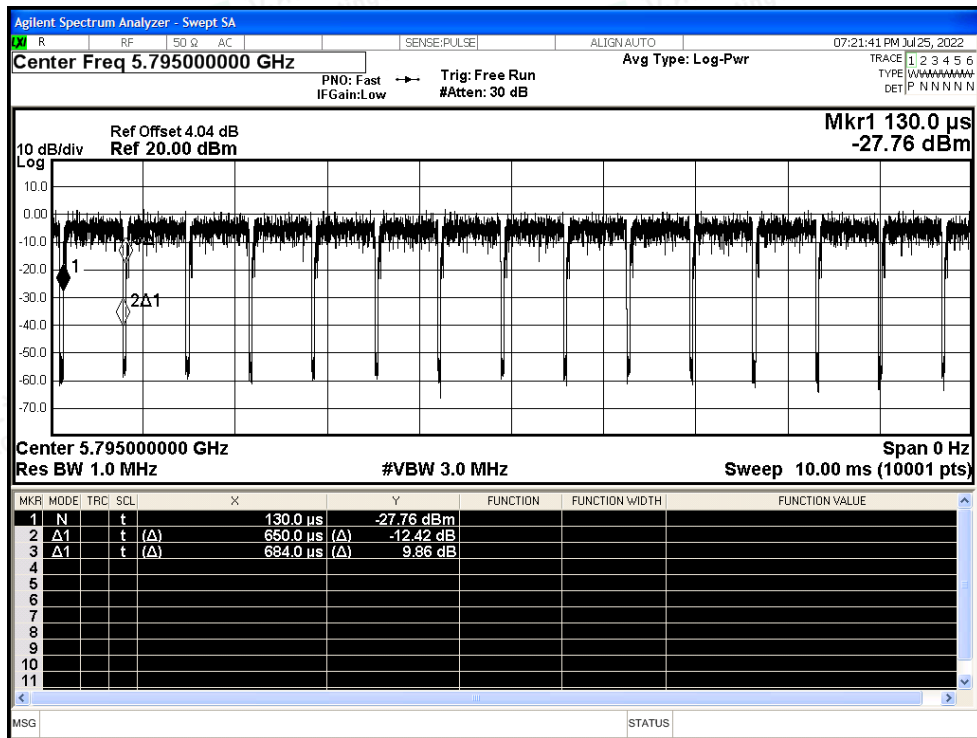


Test Graphs

Duty Cycle NVNT ac40 5755MHz Ant1



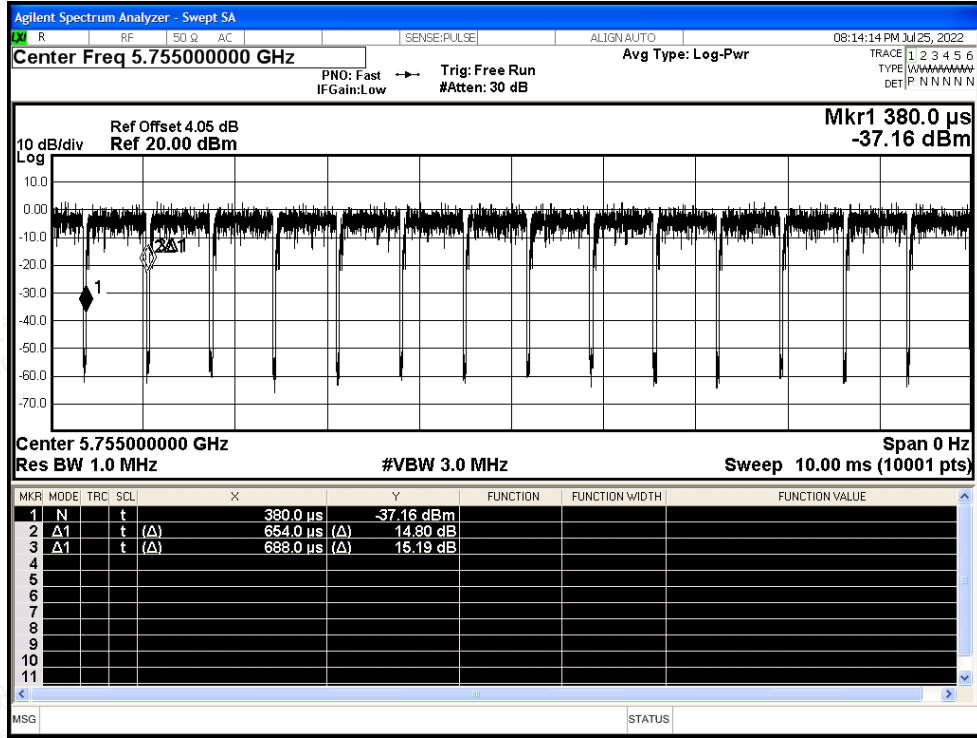
Duty Cycle NVNT ac40 5795MHz Ant1



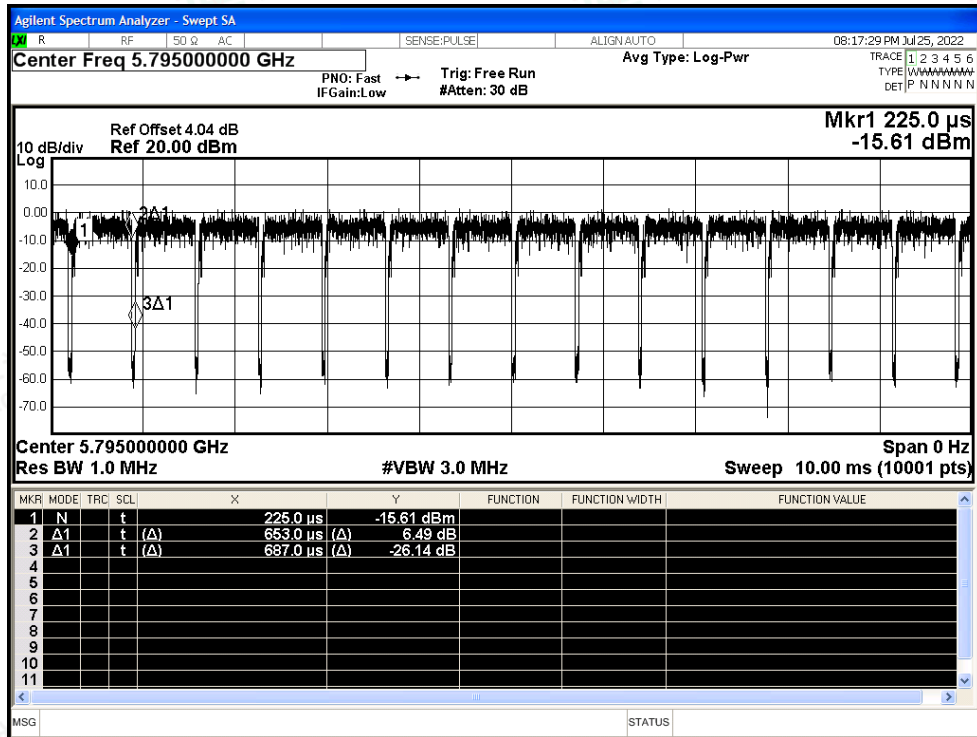


Test Graphs

Duty Cycle NVNT ac40 5755MHz Ant2



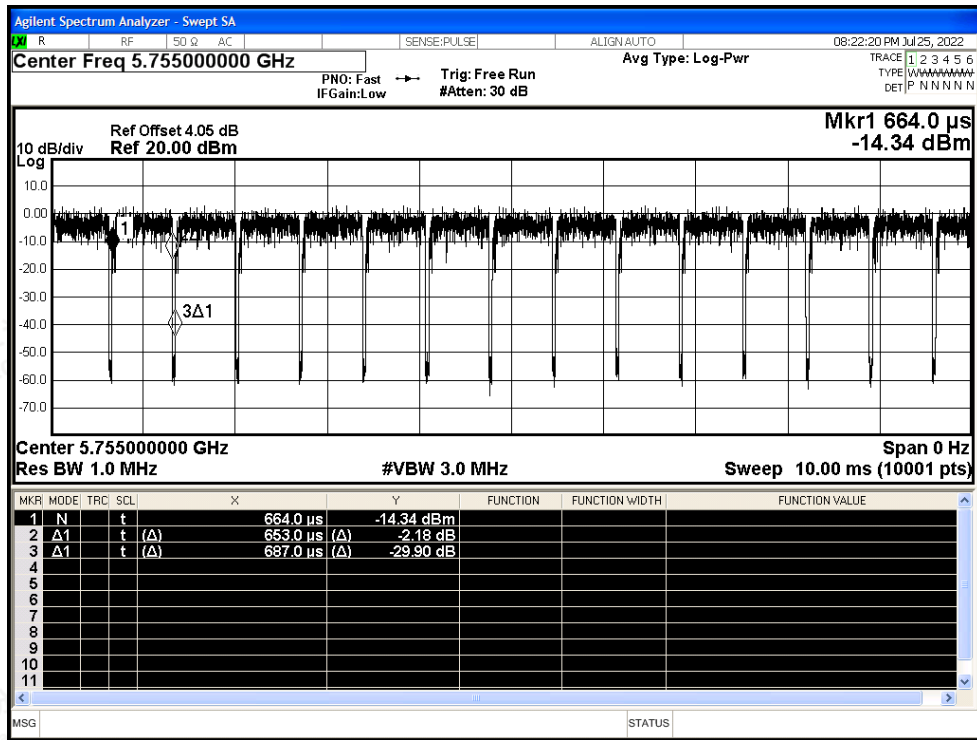
Duty Cycle NVNT ac40 5795MHz Ant2



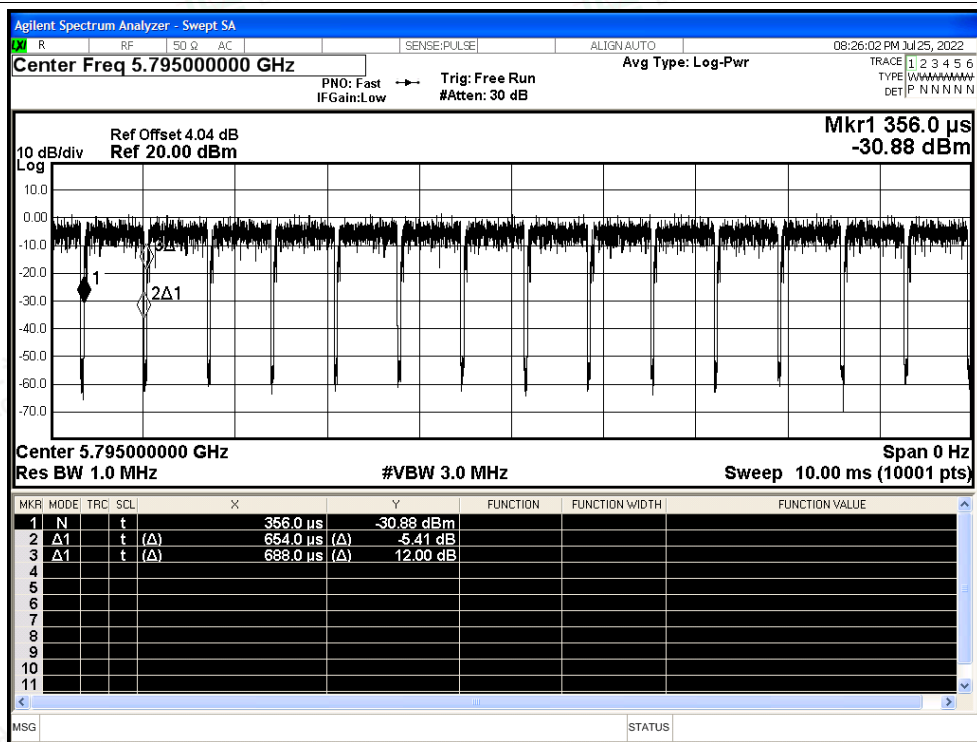


Test Graphs

Duty Cycle NVNT ac40 5755MHz Ant3



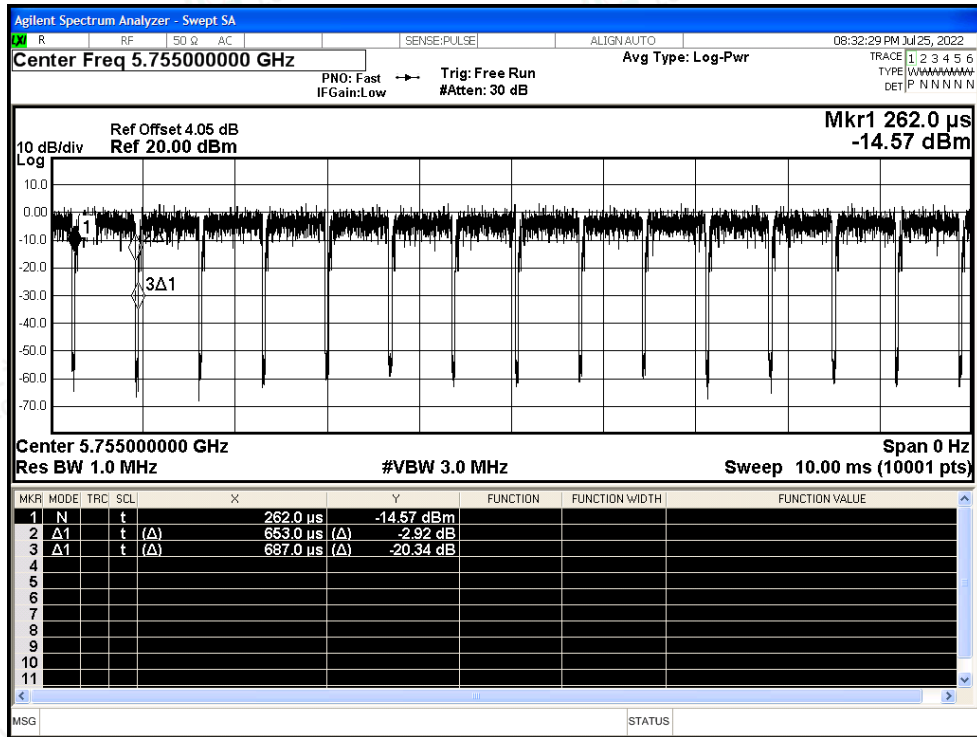
Duty Cycle NVNT ac40 5795MHz Ant3





Test Graphs

Duty Cycle NVNT ac40 5755MHz Ant4



Duty Cycle NVNT ac40 5795MHz Ant4

