



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Hyundai Mini PC

Test Model: HTN4020MPC

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





D.1 -26dB Bandwidth

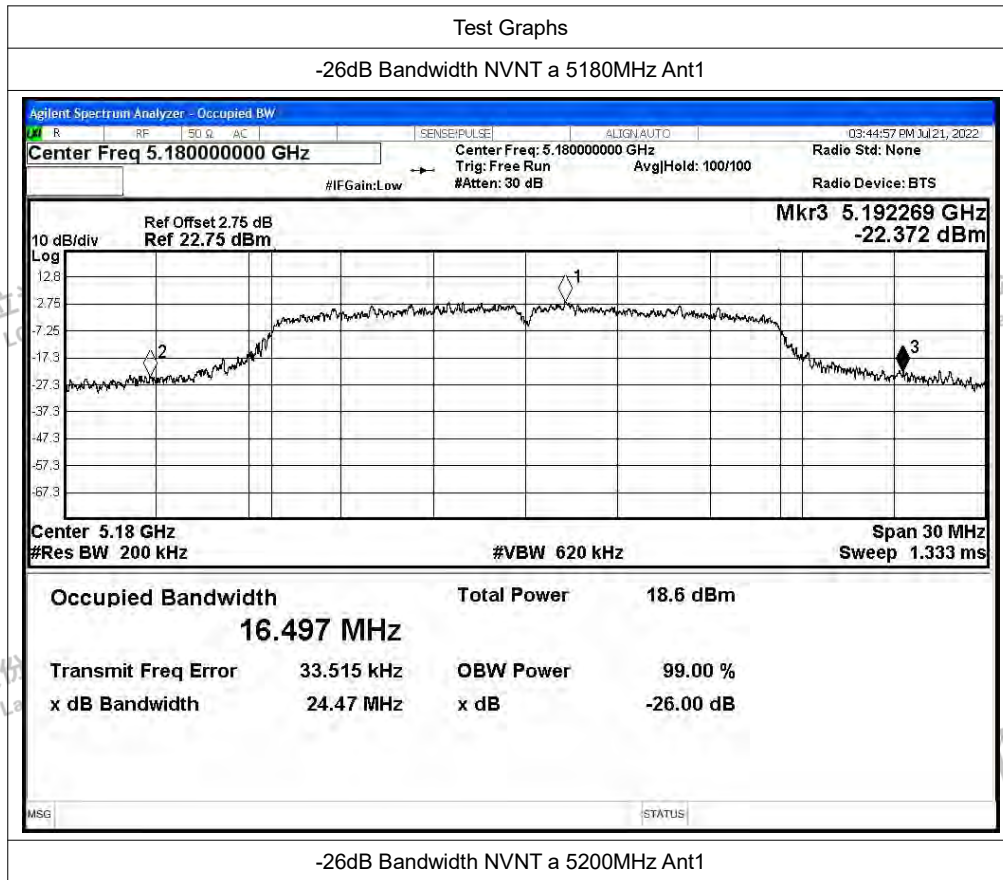
Condition	Mode: MIMO	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	24.472	>=0.5	Pass
NVNT	a	5200	Ant1	26.078	>=0.5	Pass
NVNT	a	5240	Ant1	23.449	>=0.5	Pass
NVNT	n20	5180	Ant1	24.074	>=0.5	Pass
NVNT	n20	5200	Ant1	23.084	>=0.5	Pass
NVNT	n20	5240	Ant1	23.924	>=0.5	Pass
NVNT	n40	5190	Ant1	54.986	>=0.5	Pass
NVNT	n40	5230	Ant1	52.326	>=0.5	Pass
NVNT	ac20	5180	Ant1	22.283	>=0.5	Pass
NVNT	ac20	5200	Ant1	26.047	>=0.5	Pass
NVNT	ac20	5240	Ant1	20.742	>=0.5	Pass
NVNT	ac40	5190	Ant1	53.102	>=0.5	Pass
NVNT	ac40	5230	Ant1	54.005	>=0.5	Pass
NVNT	ac80	5210	Ant1	117.445	>=0.5	Pass

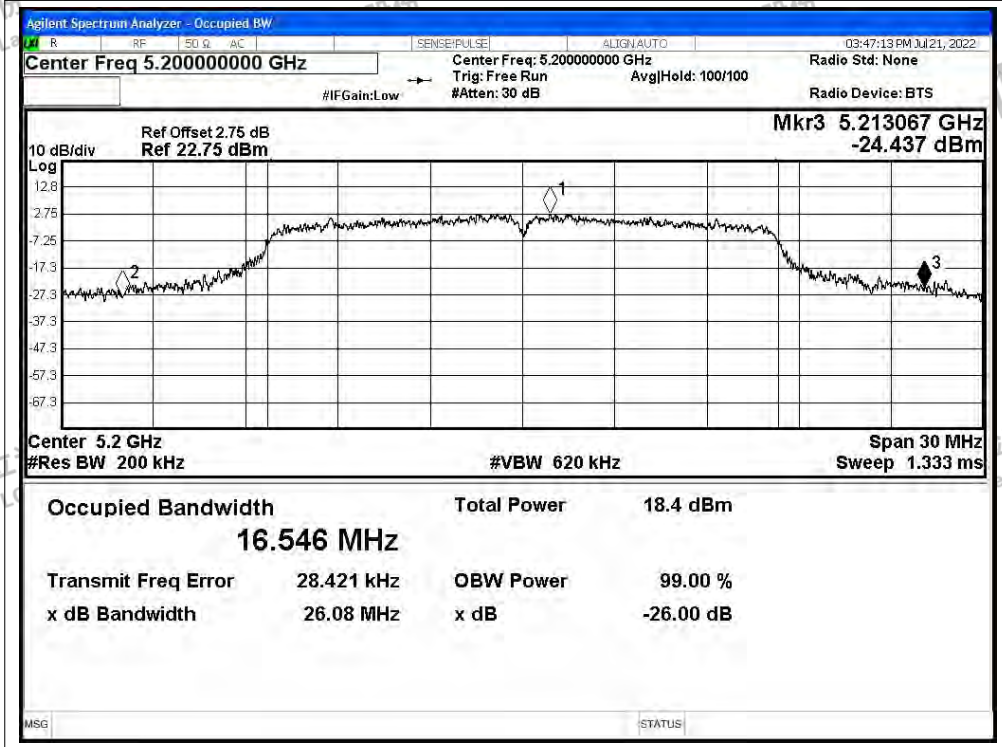
Condition	Mode: MIMO	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	19.612	>=0.5	Pass
NVNT	a	5200	Ant2	19.337	>=0.5	Pass
NVNT	a	5240	Ant2	19.664	>=0.5	Pass
NVNT	n20	5180	Ant2	19.78	>=0.5	Pass
NVNT	n20	5200	Ant2	19.902	>=0.5	Pass
NVNT	n20	5240	Ant2	19.678	>=0.5	Pass
NVNT	n40	5190	Ant2	40.274	>=0.5	Pass
NVNT	n40	5230	Ant2	40.247	>=0.5	Pass
NVNT	ac20	5180	Ant2	19.708	>=0.5	Pass
NVNT	ac20	5200	Ant2	19.65	>=0.5	Pass
NVNT	ac20	5240	Ant2	19.77	>=0.5	Pass
NVNT	ac40	5190	Ant2	40.171	>=0.5	Pass
NVNT	ac40	5230	Ant2	39.893	>=0.5	Pass
NVNT	ac80	5210	Ant2	81.221	>=0	Pass





ANT1:

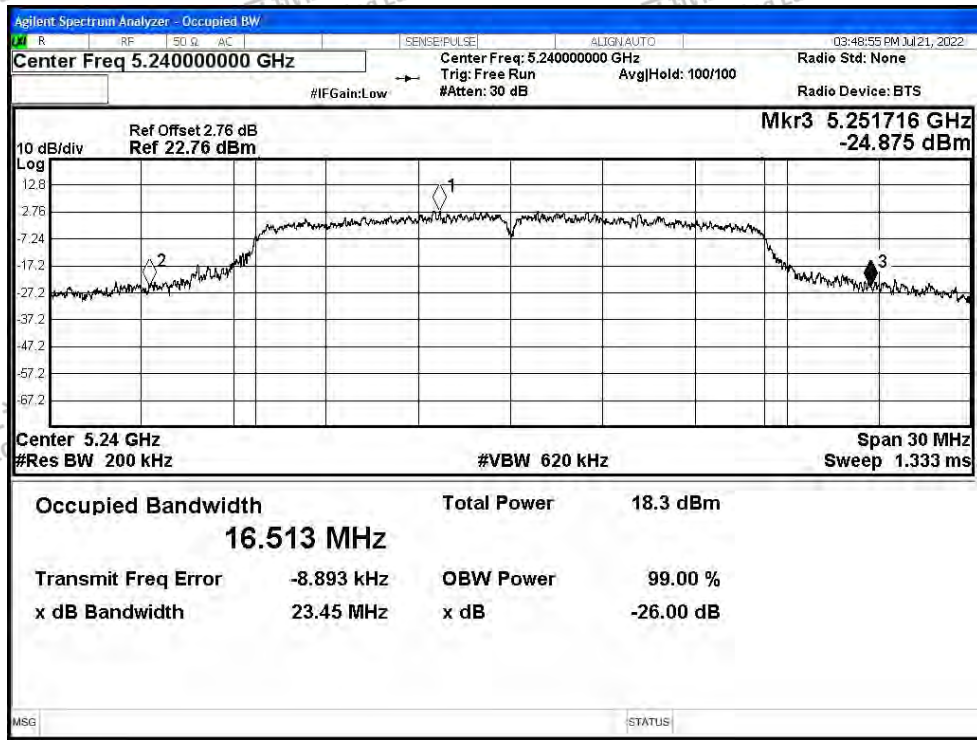




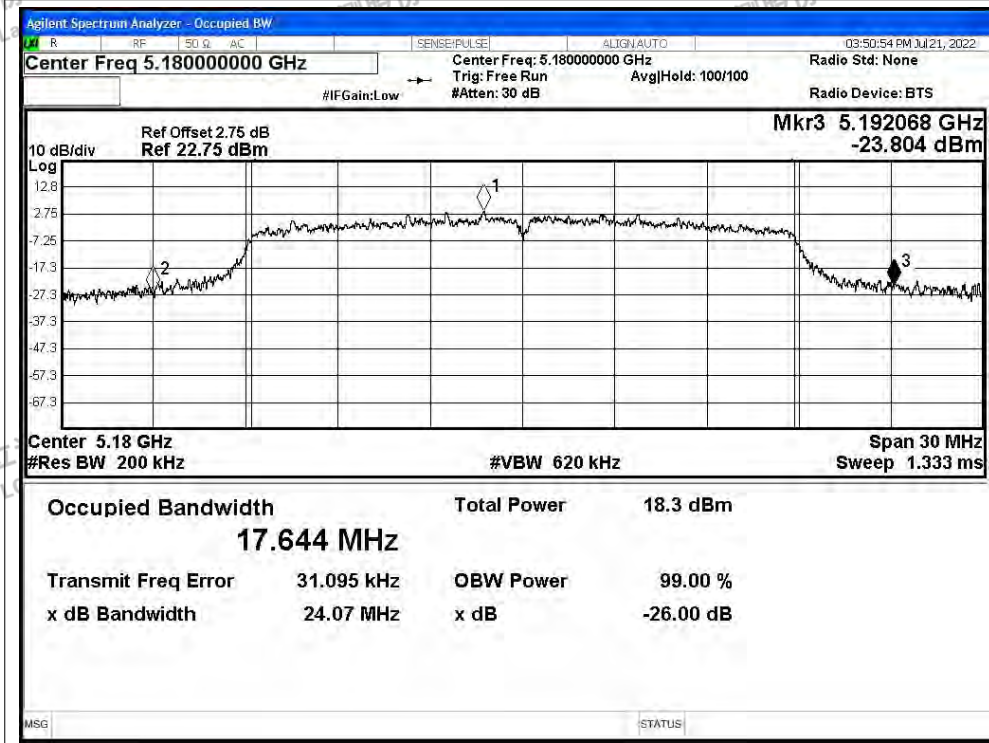
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-26dB Bandwidth NVNT a 5240MHz Ant1

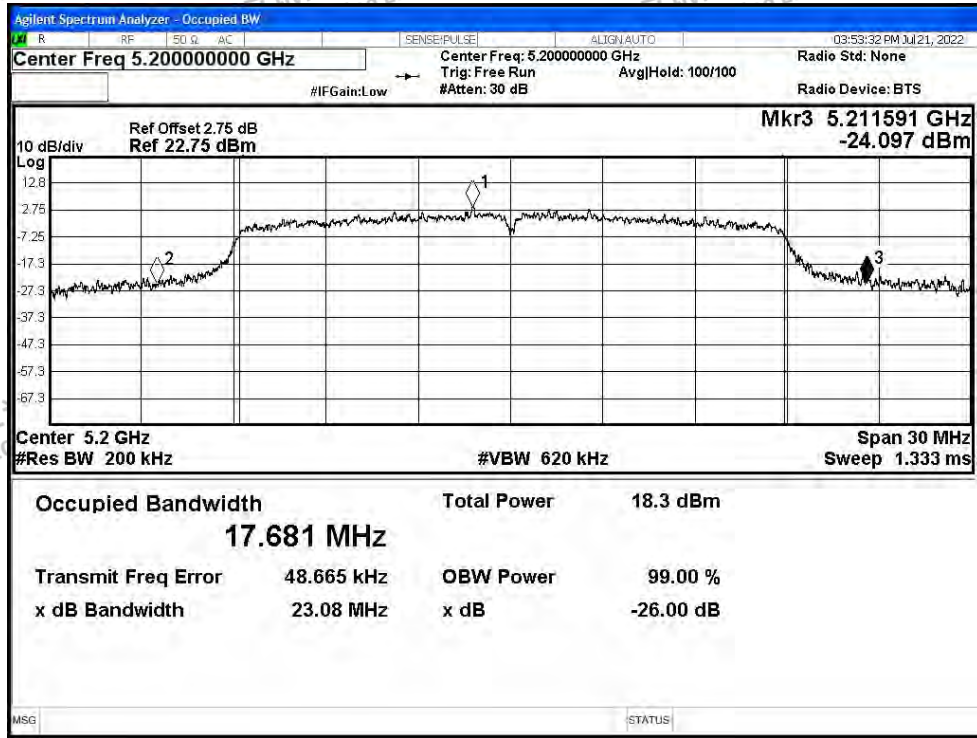


-26dB Bandwidth NVNT n20 5180MHz Ant1

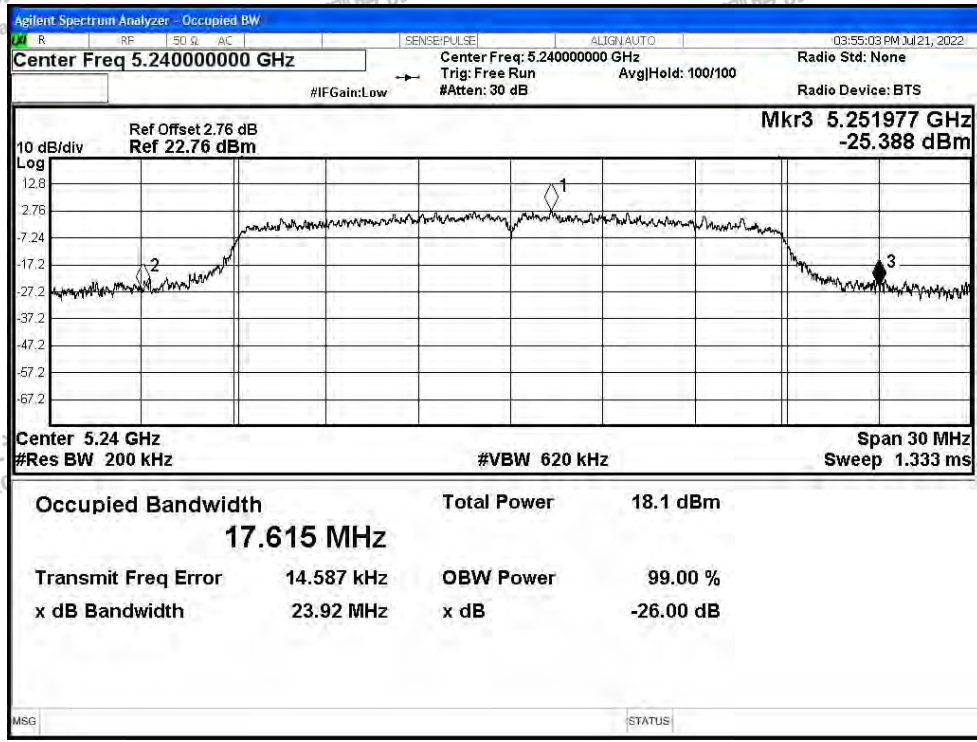




-26dB Bandwidth NVNT n20 5200MHz Ant1

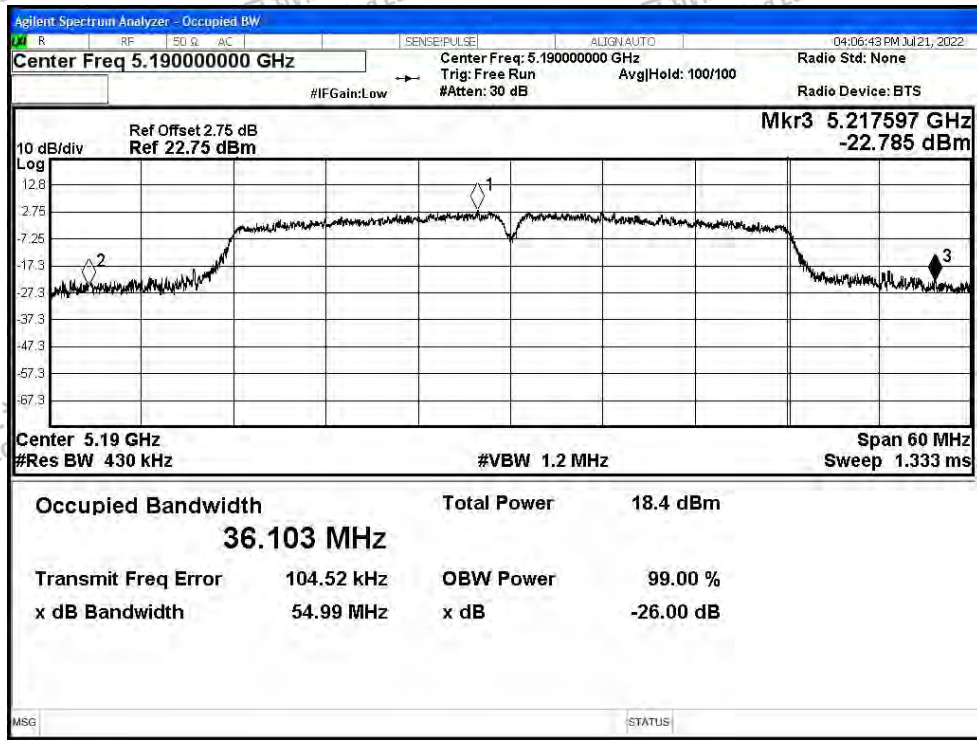


-26dB Bandwidth NVNT n20 5240MHz Ant1

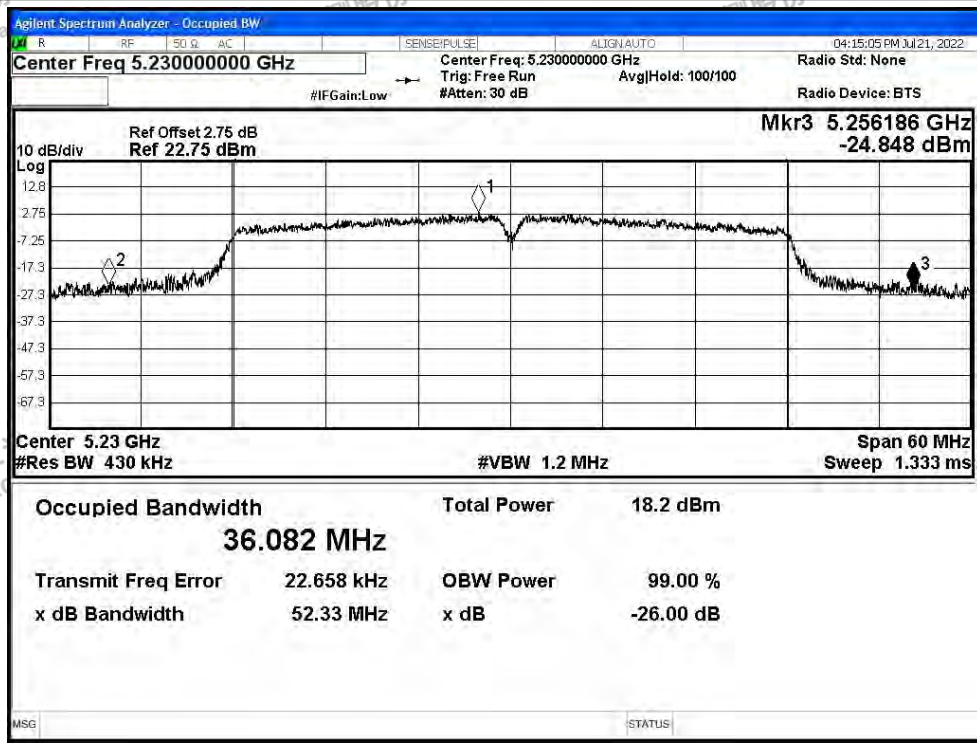




-26dB Bandwidth NVNT n40 5190MHz Ant1

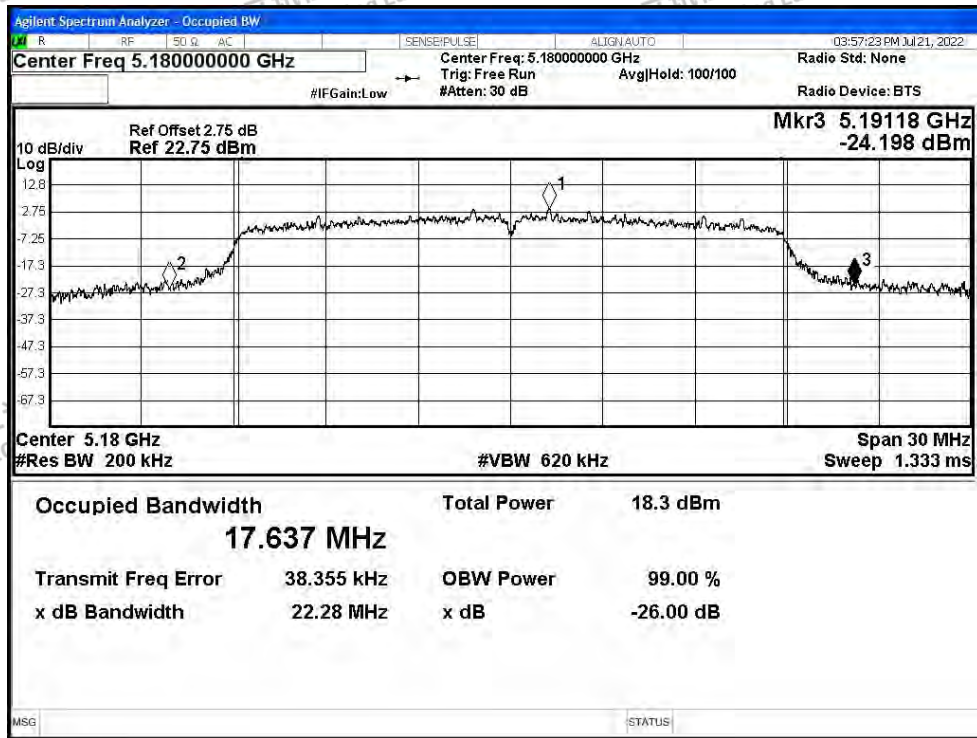


-26dB Bandwidth NVNT n40 5230MHz Ant1

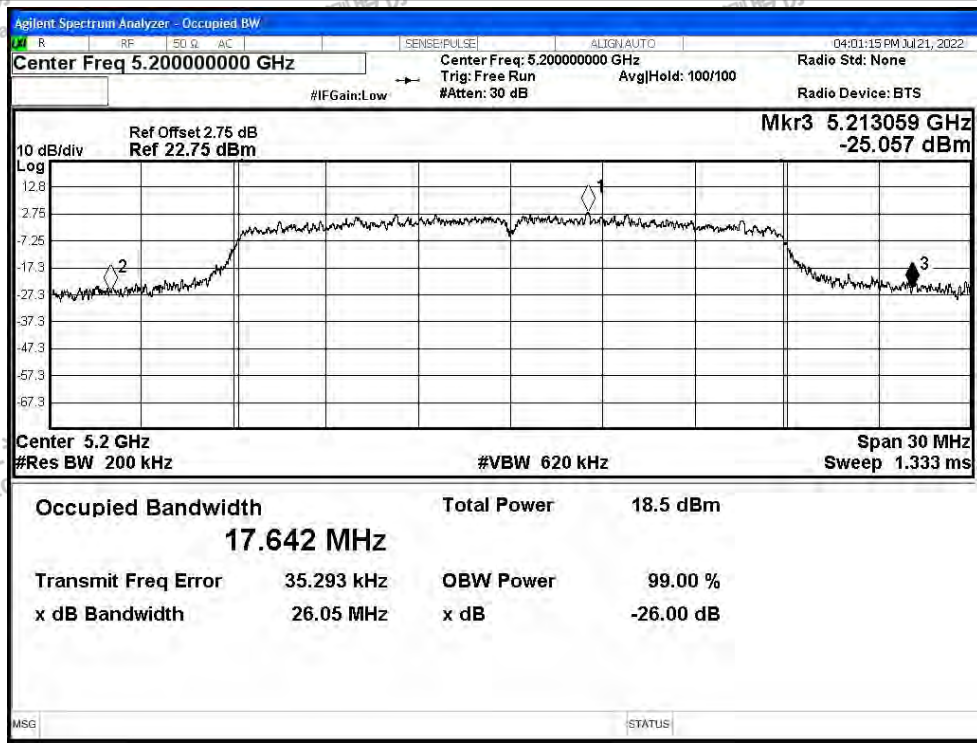




-26dB Bandwidth NVNT ac20 5180MHz Ant1

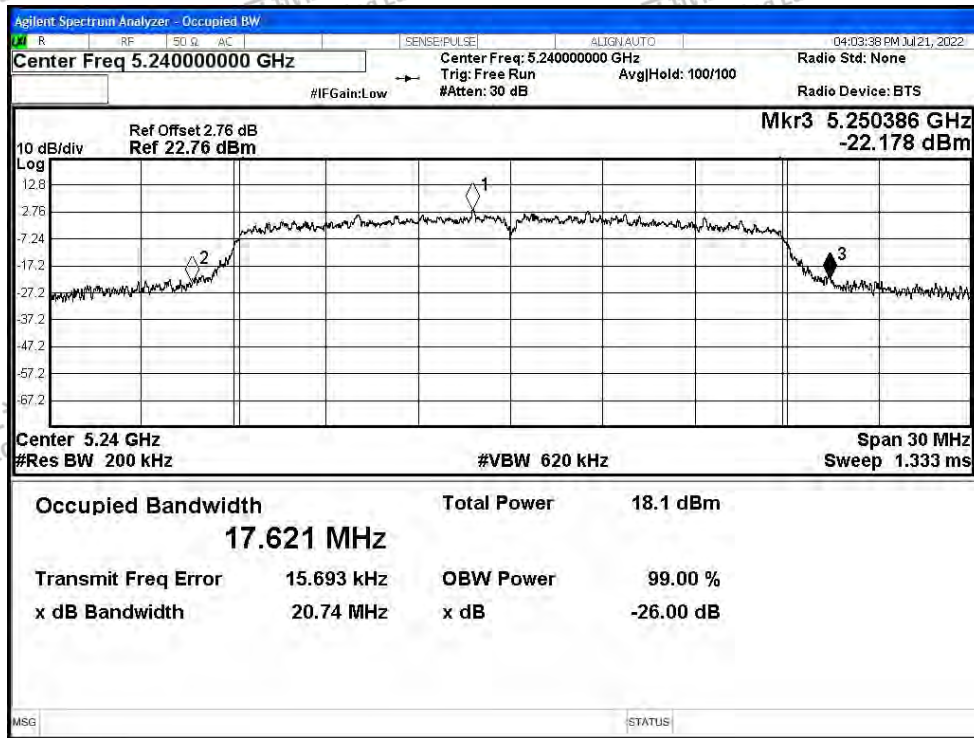


-26dB Bandwidth NVNT ac20 5200MHz Ant1

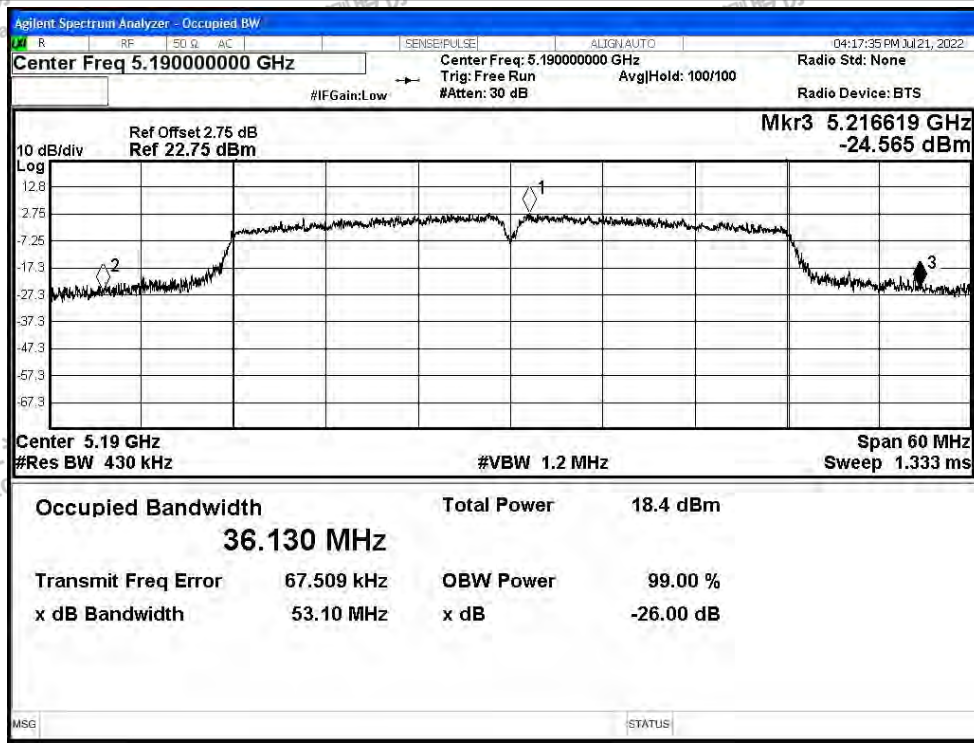




-26dB Bandwidth NVNT ac20 5240MHz Ant1

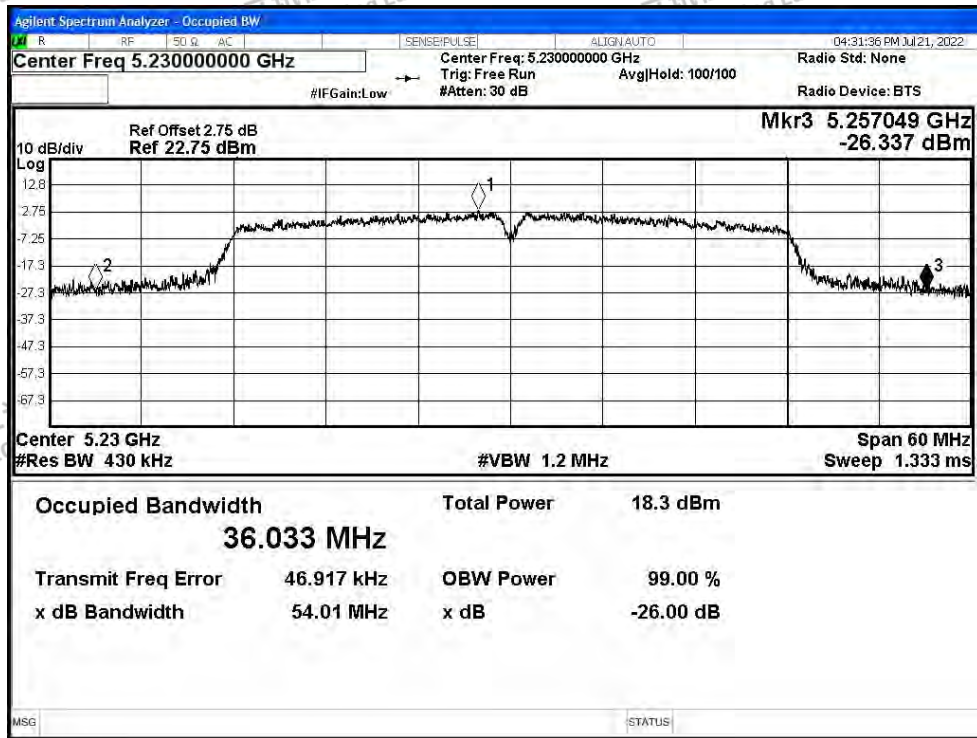


-26dB Bandwidth NVNT ac40 5190MHz Ant1

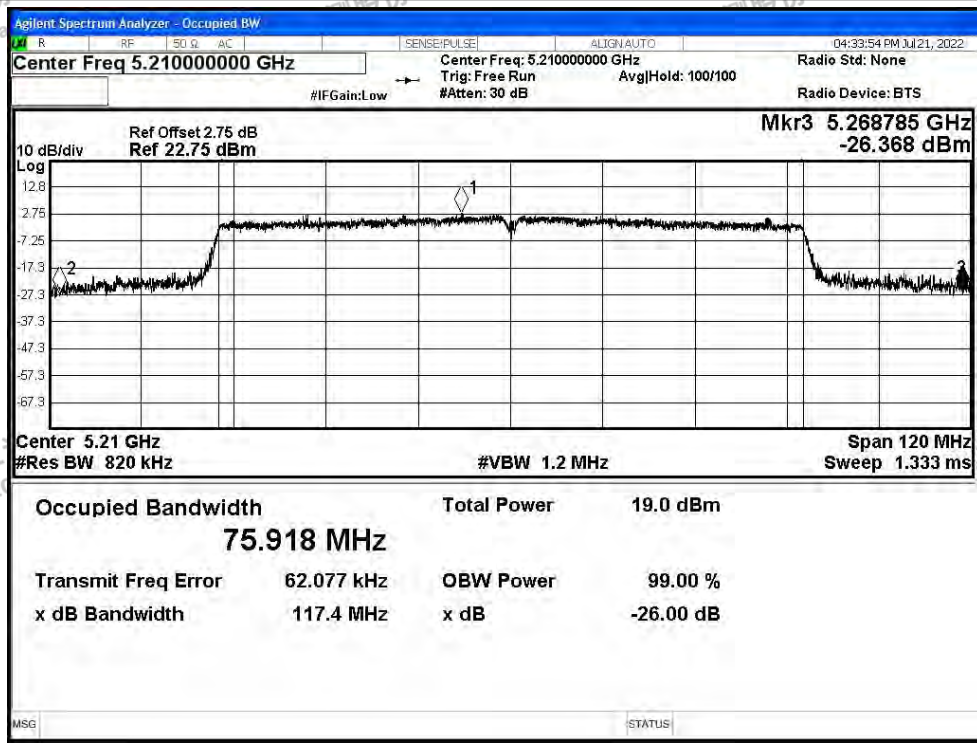




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1

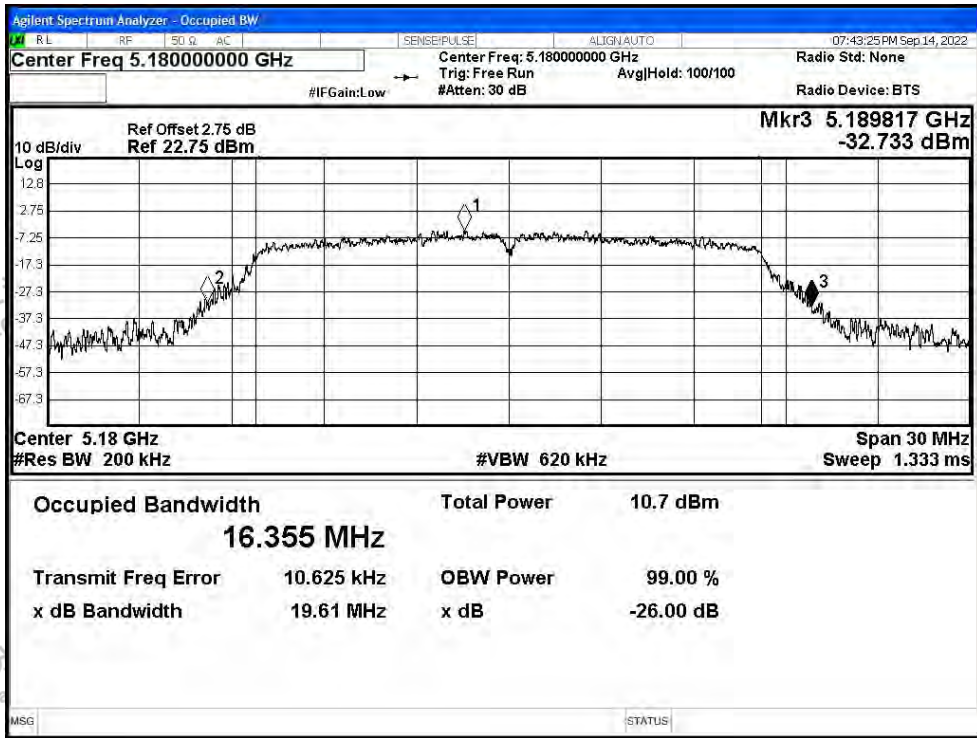




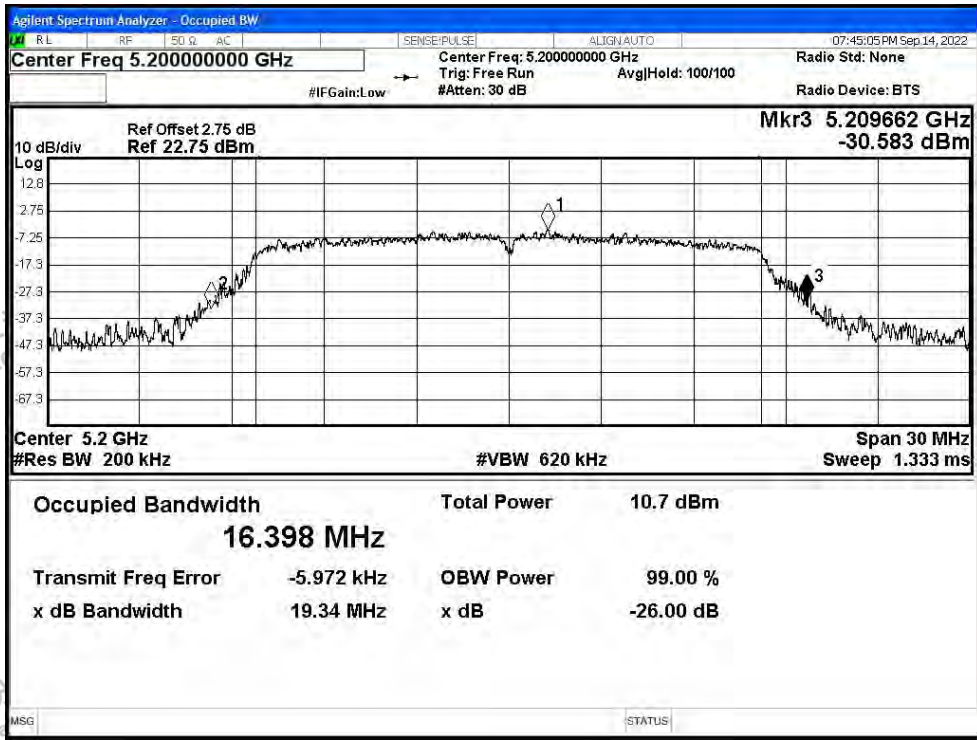
ANT2:

Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2

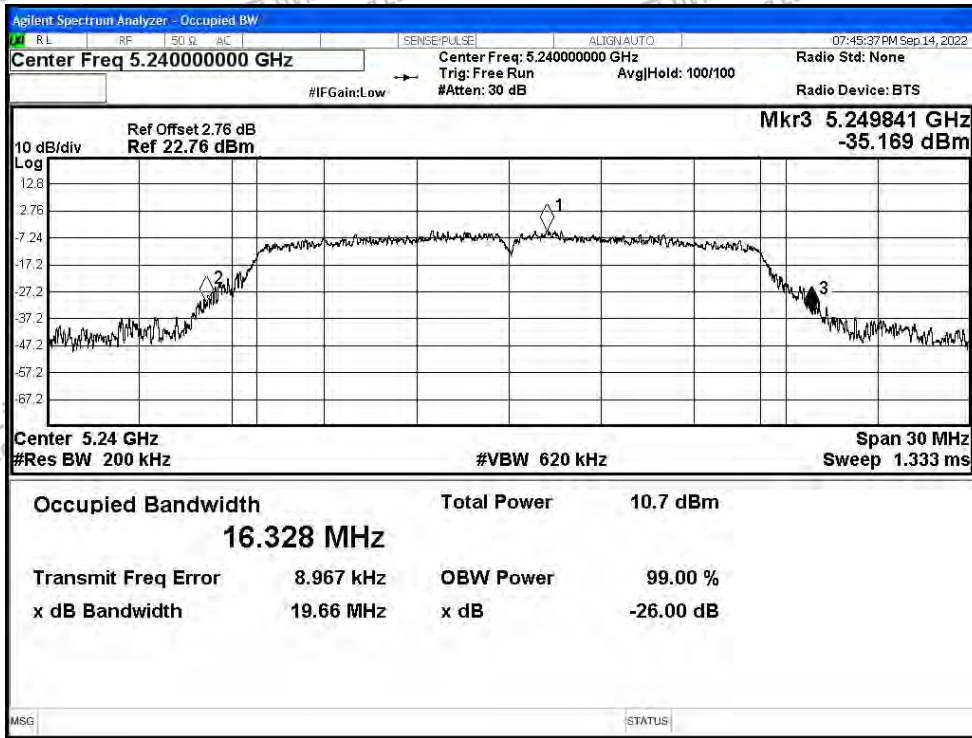


-26dB Bandwidth NVNT a 5200MHz Ant2

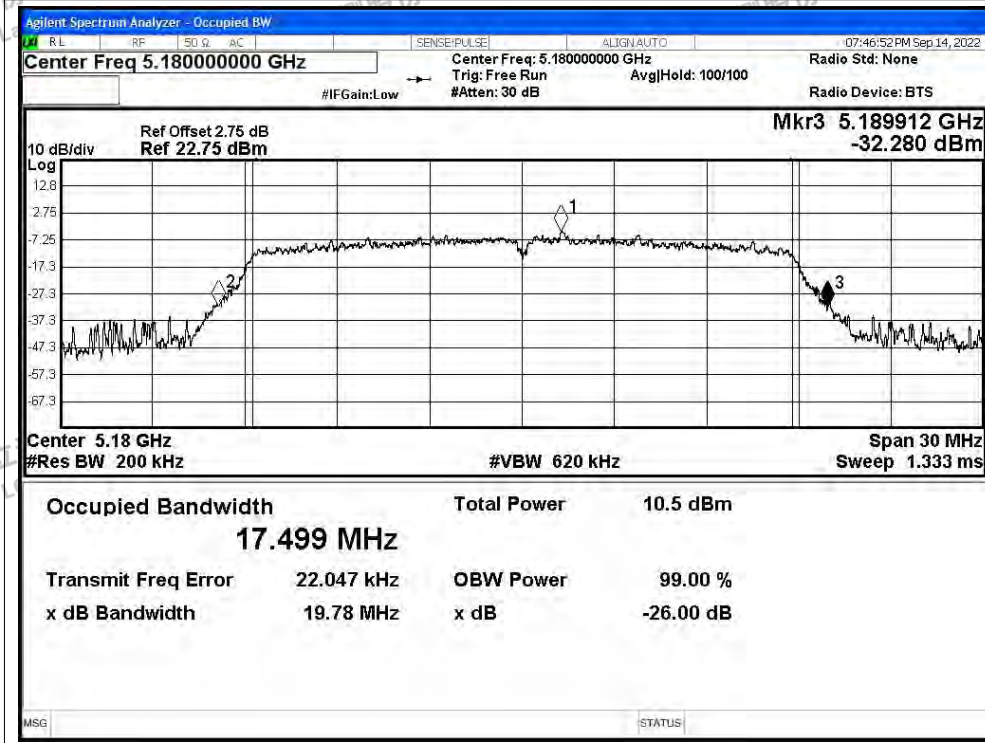




-26dB Bandwidth NVNT a 5240MHz Ant2

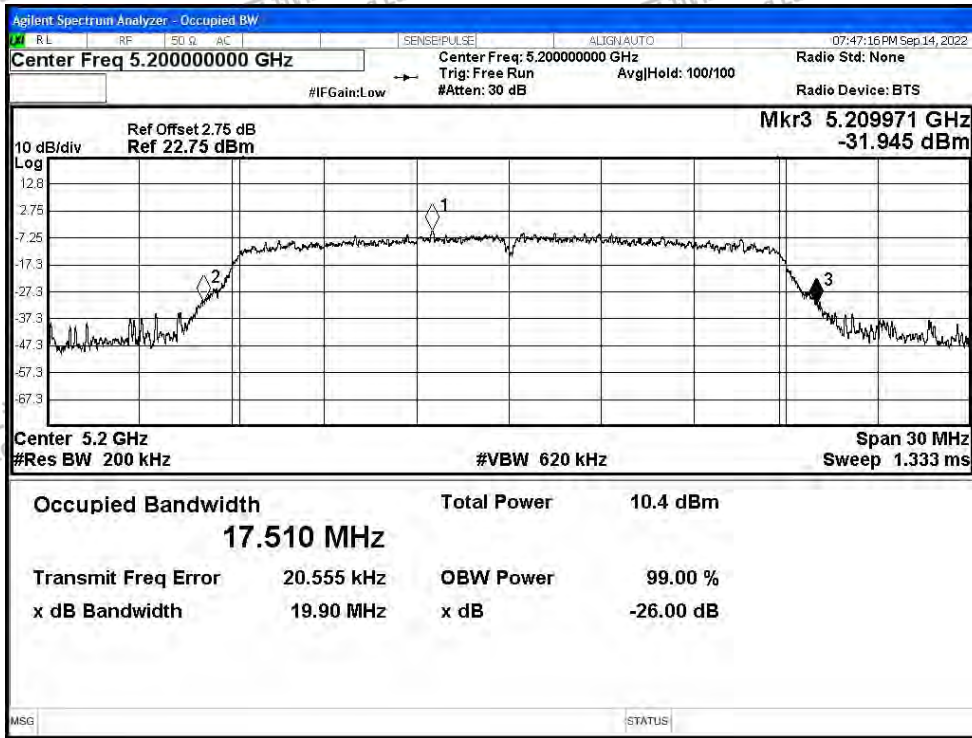


-26dB Bandwidth NVNT n20 5180MHz Ant2

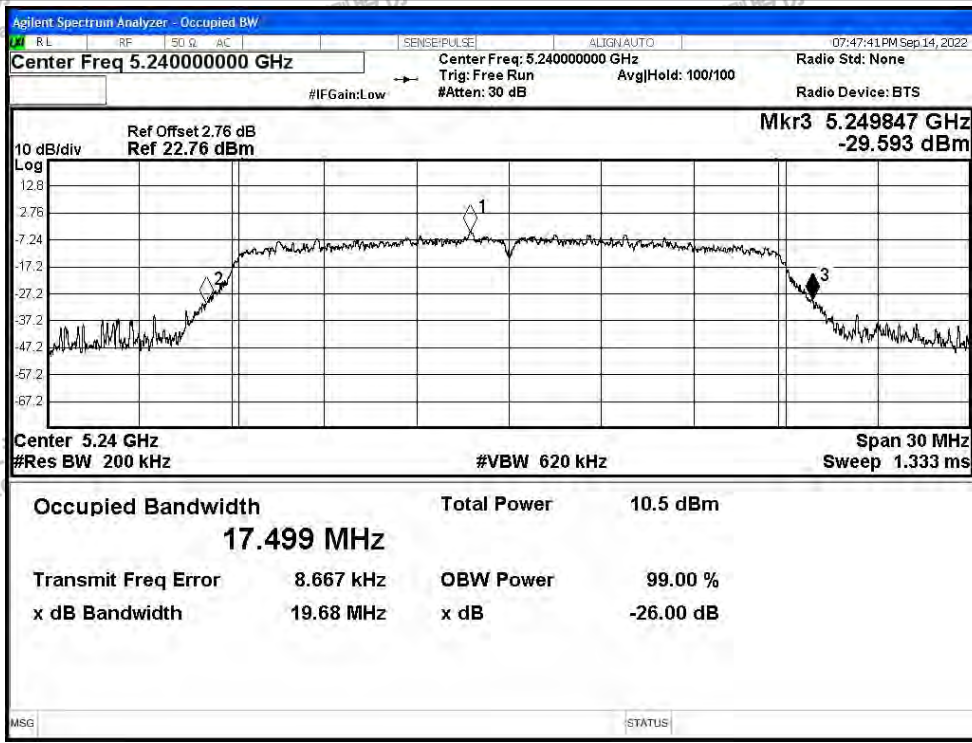




-26dB Bandwidth NVNT n20 5200MHz Ant2

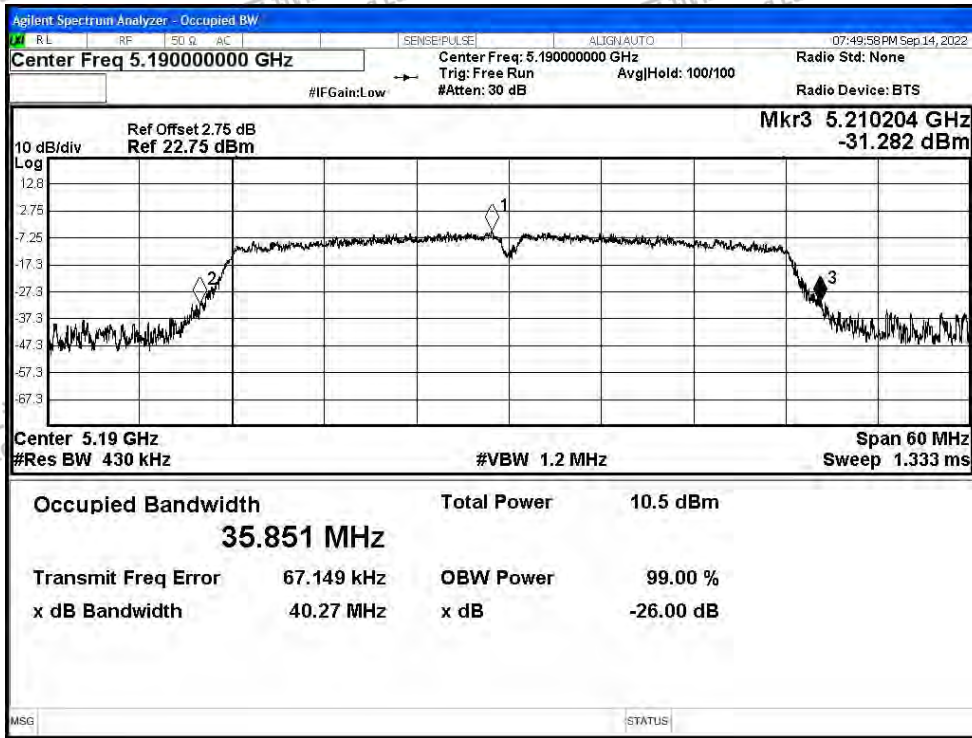


-26dB Bandwidth NVNT n20 5240MHz Ant2

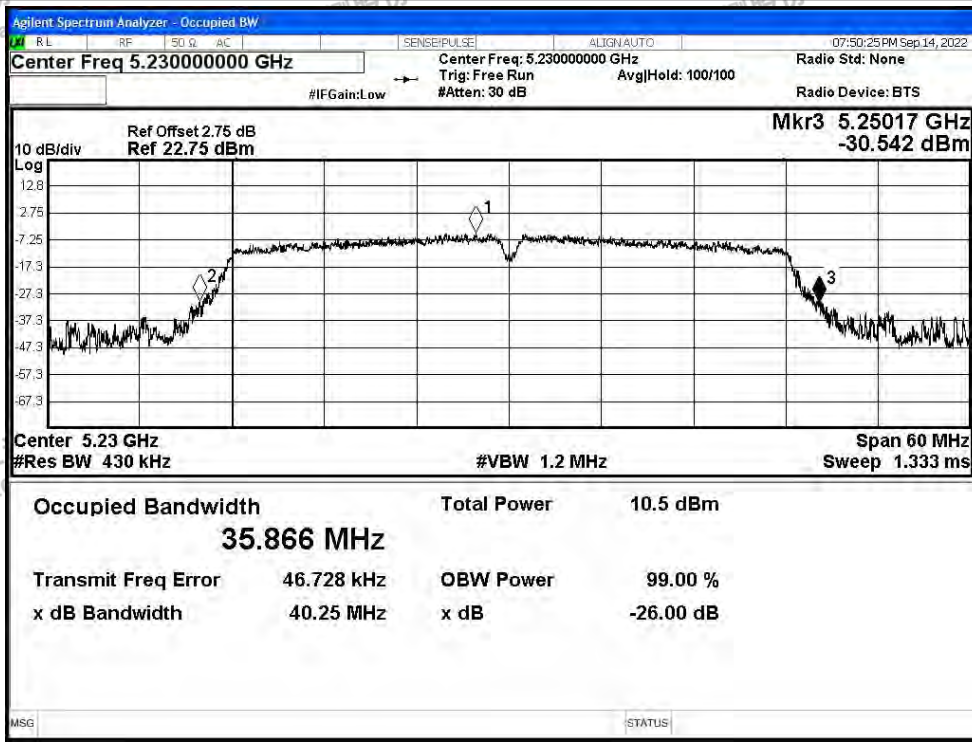




-26dB Bandwidth NVNT n40 5190MHz Ant2

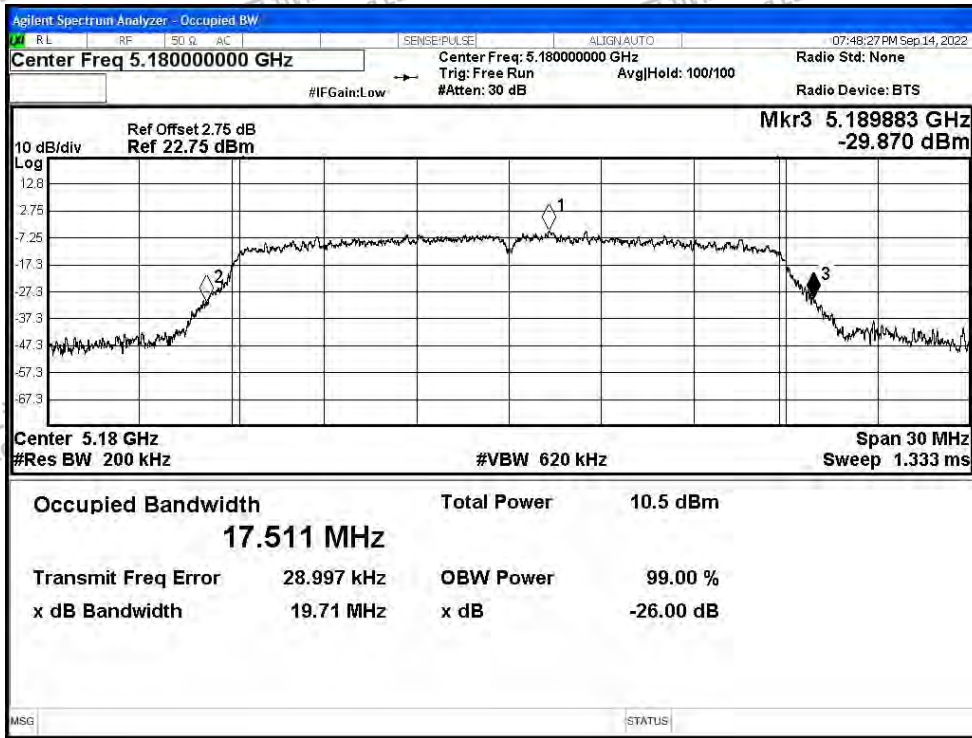


-26dB Bandwidth NVNT n40 5230MHz Ant2

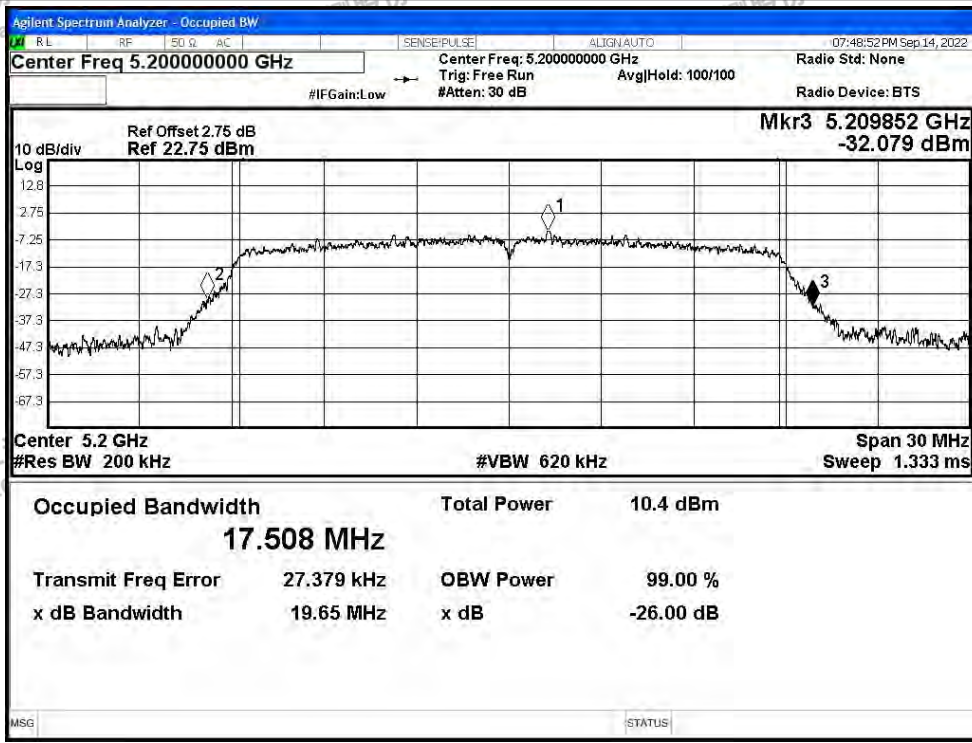




-26dB Bandwidth NVNT ac20 5180MHz Ant2

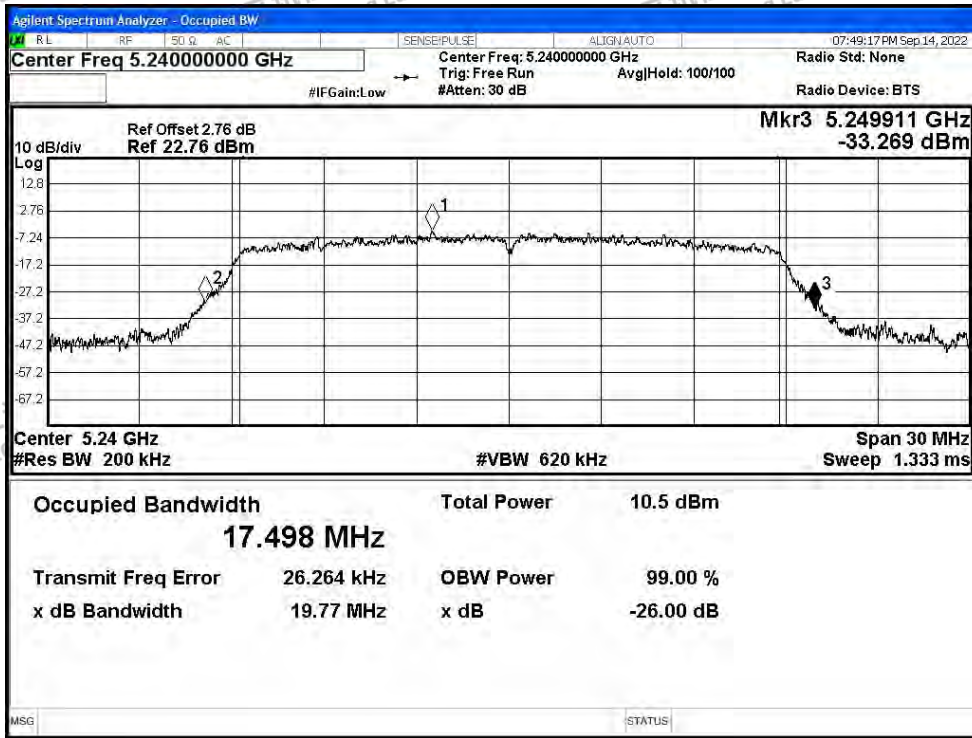


-26dB Bandwidth NVNT ac20 5200MHz Ant2





-26dB Bandwidth NVNT ac20 5240MHz Ant2

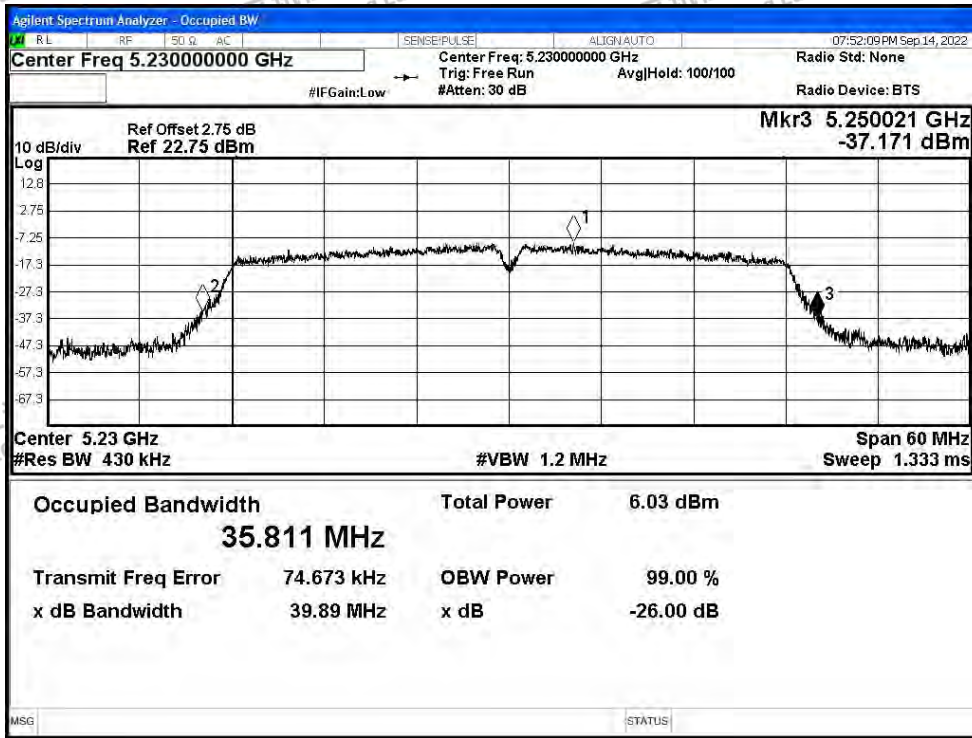


-26dB Bandwidth NVNT ac40 5190MHz Ant2

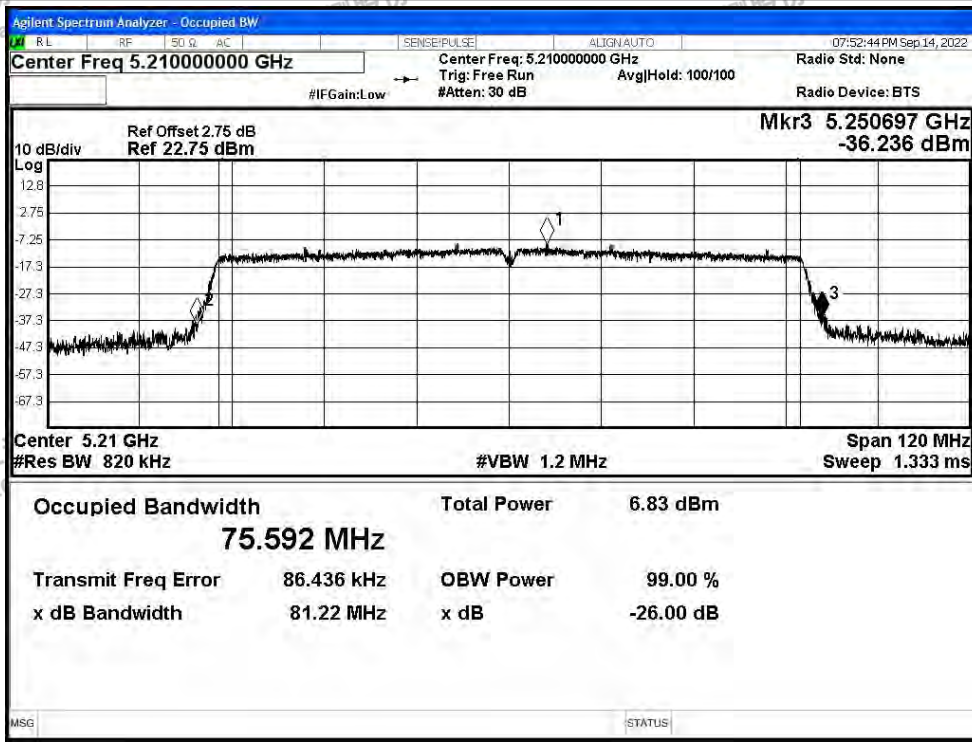




-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2





A.2 Maximum Conducted Output Power

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.86	0.11	12.97	24	Pass
NVNT	a	5200	Ant1	12.87	0.11	12.98	24	Pass
NVNT	a	5240	Ant1	12.64	0.11	12.75	24	Pass
NVNT	n20	5180	Ant1	12.74	0.12	12.86	24	Pass
NVNT	n20	5200	Ant1	12.76	0.12	12.88	24	Pass
NVNT	n20	5240	Ant1	12.49	0.12	12.61	24	Pass
NVNT	n40	5190	Ant1	12.6	0.22	12.82	24	Pass
NVNT	n40	5230	Ant1	12.48	0.22	12.7	24	Pass
NVNT	ac20	5180	Ant1	12.71	0.12	12.83	24	Pass
NVNT	ac20	5200	Ant1	12.74	0.12	12.86	24	Pass
NVNT	ac20	5240	Ant1	12.51	0.11	12.62	24	Pass
NVNT	ac40	5190	Ant1	12.65	0.23	12.88	24	Pass
NVNT	ac40	5230	Ant1	12.45	0.23	12.68	24	Pass
NVNT	ac80	5210	Ant1	12.15	0.43	12.58	24	Pass

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	13.04	0.11	13.15	24	Pass
NVNT	a	5200	Ant2	12.91	0.11	13.02	24	Pass
NVNT	a	5240	Ant2	12.57	0.11	12.68	24	Pass
NVNT	n20	5180	Ant2	12.78	0.12	12.9	24	Pass
NVNT	n20	5200	Ant2	12.72	0.12	12.84	24	Pass
NVNT	n20	5240	Ant2	12.53	0.12	12.65	24	Pass
NVNT	n40	5190	Ant2	12.58	0.23	12.81	24	Pass
NVNT	n40	5230	Ant2	12.22	0.23	12.45	24	Pass
NVNT	ac20	5180	Ant2	12.81	0.12	12.93	24	Pass
NVNT	ac20	5200	Ant2	12.68	0.12	12.8	24	Pass
NVNT	ac20	5240	Ant2	12.48	0.12	12.6	24	Pass
NVNT	ac40	5190	Ant2	12.68	0.23	12.91	24	Pass
NVNT	ac40	5230	Ant2	12.33	0.22	12.55	24	Pass
NVNT	ac80	5210	Ant2	12.13	0.43	12.56	24	Pass



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Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			ANT1	ANT2	ANT1+ANT2		
NVNT	n20	5180	12.86	12.9	15.89	24	Pass
NVNT	n20	5200	12.88	12.84	15.87	24	Pass
NVNT	n20	5240	12.61	12.65	15.64	24	Pass
NVNT	n40	5190	12.82	12.81	15.83	24	Pass
NVNT	n40	5230	12.7	12.45	15.59	24	Pass
NVNT	ac20	5180	12.83	12.93	15.89	24	Pass
NVNT	ac20	5200	12.86	12.8	15.84	24	Pass
NVNT	ac20	5240	12.62	12.6	15.62	24	Pass
NVNT	ac40	5190	12.88	12.91	15.91	24	Pass
NVNT	ac40	5230	12.68	12.55	15.63	24	Pass
NVNT	ac80	5210	12.58	12.56	15.58	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	0.67	0.11	0.78	11	Pass
NVNT	a	5200	Ant1	0.56	0.11	0.67	11	Pass
NVNT	a	5240	Ant1	0.39	0.11	0.5	11	Pass
NVNT	n20	5180	Ant1	1.01	0.12	1.13	11	Pass
NVNT	n20	5200	Ant1	0.69	0.12	0.81	11	Pass
NVNT	n20	5240	Ant1	0.46	0.12	0.58	11	Pass
NVNT	n40	5190	Ant1	-3.15	0.22	-2.93	11	Pass
NVNT	n40	5230	Ant1	-1.97	0.22	-1.75	11	Pass
NVNT	ac20	5180	Ant1	0.23	0.12	0.35	11	Pass
NVNT	ac20	5200	Ant1	0.72	0.12	0.84	11	Pass
NVNT	ac20	5240	Ant1	0.49	0.11	0.6	11	Pass
NVNT	ac40	5190	Ant1	-3.61	0.23	-3.38	11	Pass
NVNT	ac40	5230	Ant1	-3.97	0.23	-3.74	11	Pass
NVNT	ac80	5210	Ant1	-8.11	0.43	-7.68	11	Pass

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	1.02	0.11	1.13	11	Pass
NVNT	a	5200	Ant2	0.33	0.11	0.44	11	Pass
NVNT	a	5240	Ant2	1.72	0.11	1.83	11	Pass
NVNT	n20	5180	Ant2	0.58	0.12	0.7	11	Pass
NVNT	n20	5200	Ant2	0.28	0.12	0.4	11	Pass
NVNT	n20	5240	Ant2	1.09	0.12	1.21	11	Pass
NVNT	n40	5190	Ant2	-2.9	0.23	-2.67	11	Pass
NVNT	n40	5230	Ant2	-3.26	0.23	-3.03	11	Pass
NVNT	ac20	5180	Ant2	0.8	0.12	0.92	11	Pass
NVNT	ac20	5200	Ant2	0.35	0.12	0.47	11	Pass
NVNT	ac20	5240	Ant2	-0.21	0.12	-0.09	11	Pass
NVNT	ac40	5190	Ant2	-2.49	0.23	-2.26	11	Pass
NVNT	ac40	5230	Ant2	-2.33	0.22	-2.11	11	Pass
NVNT	ac80	5210	Ant2	-7.78	0.43	-7.35	11	Pass



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Condition	Mode	Frequency (MHz)	Total PSD (dBm)			Limit (dBm)	Verdict
			ANT1	ANT2	ANT1+ANT2		
NVNT	n20	5180	1.13	0.7	3.93	11	Pass
NVNT	n20	5200	0.81	0.4	3.62	11	Pass
NVNT	n20	5240	0.58	1.21	3.92	11	Pass
NVNT	n40	5190	-2.93	-2.67	0.21	11	Pass
NVNT	n40	5230	-1.75	-3.03	0.67	11	Pass
NVNT	ac20	5180	0.35	0.92	3.65	11	Pass
NVNT	ac20	5200	0.84	0.47	3.67	11	Pass
NVNT	ac20	5240	0.6	-0.09	3.28	11	Pass
NVNT	ac40	5190	-3.38	-2.26	0.23	11	Pass
NVNT	ac40	5230	-3.74	-2.11	0.16	11	Pass
NVNT	ac80	5210	-7.68	-7.35	-4.50	11	Pass



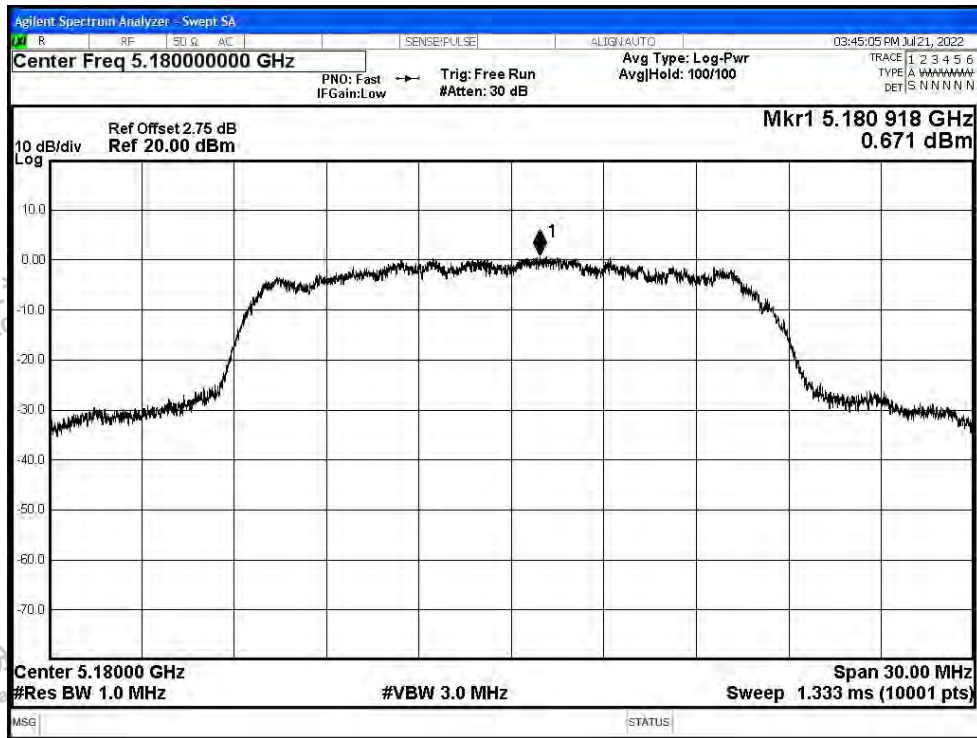
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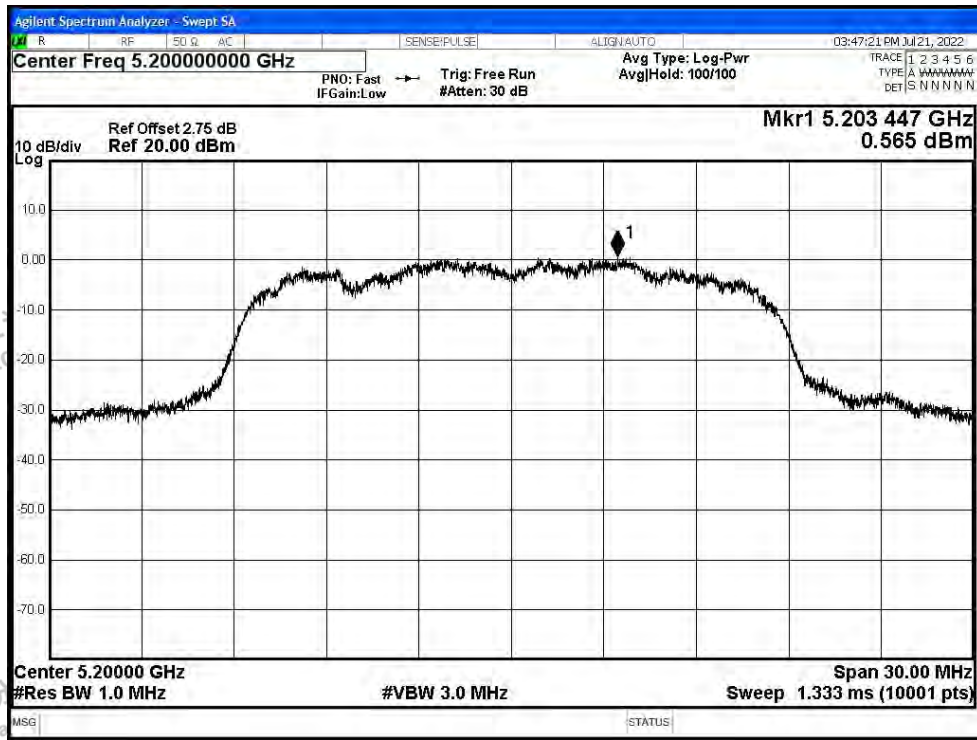
ANT1:

Test Graphs

PSD NVNT a 5180MHz Ant1

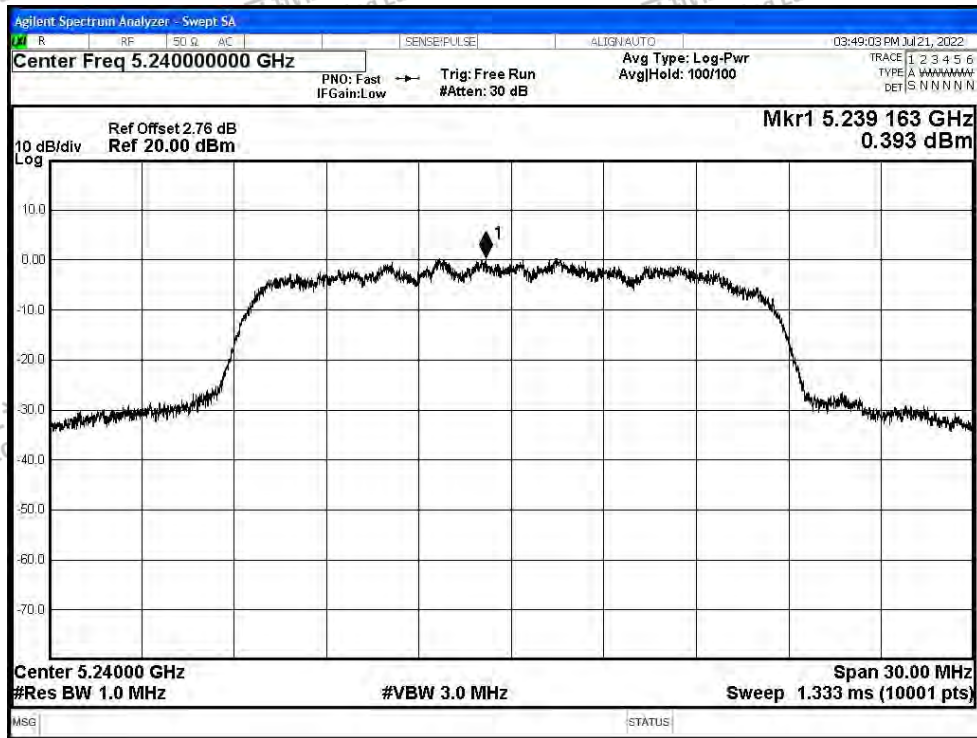


PSD NVNT a 5200MHz Ant1

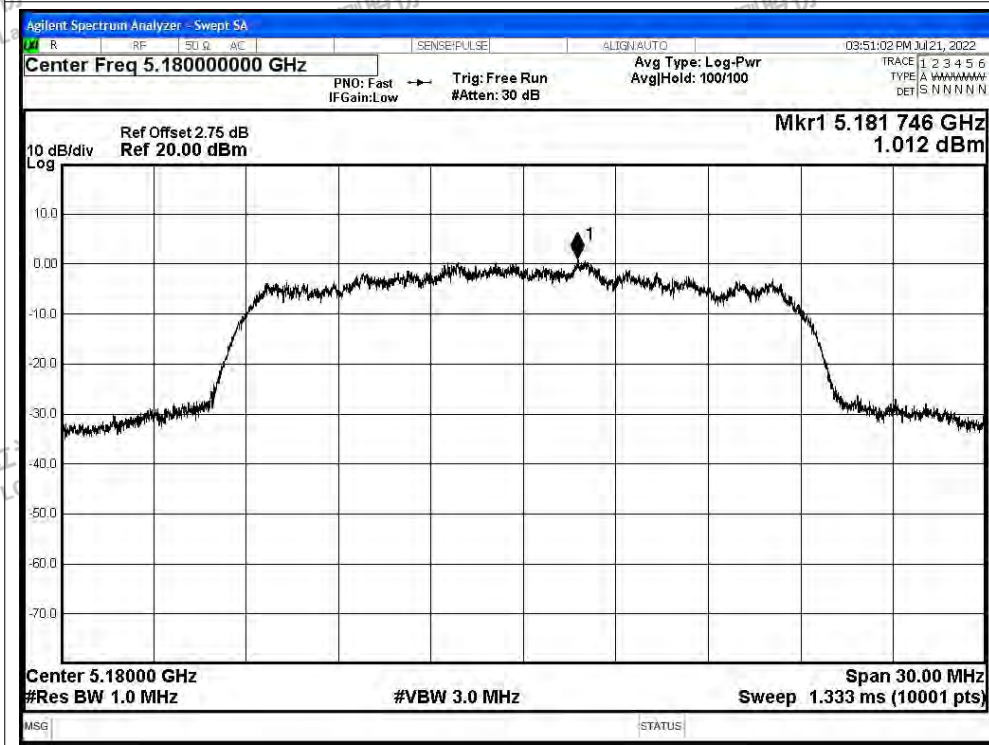




PSD NVNT a 5240MHz Ant1

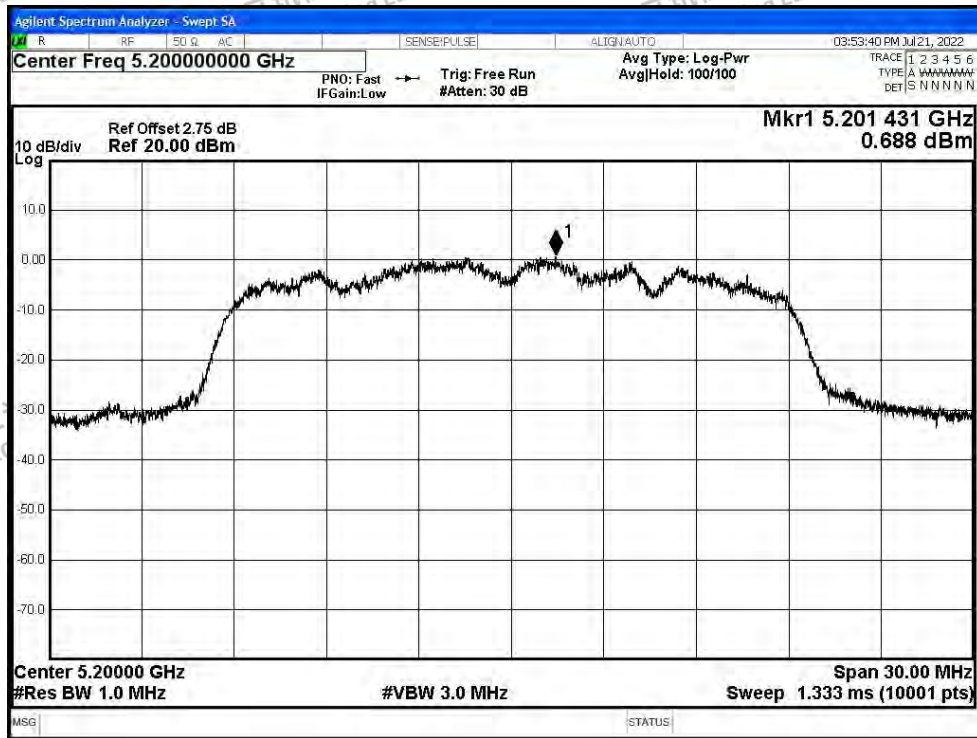


PSD NVNT n20 5180MHz Ant1

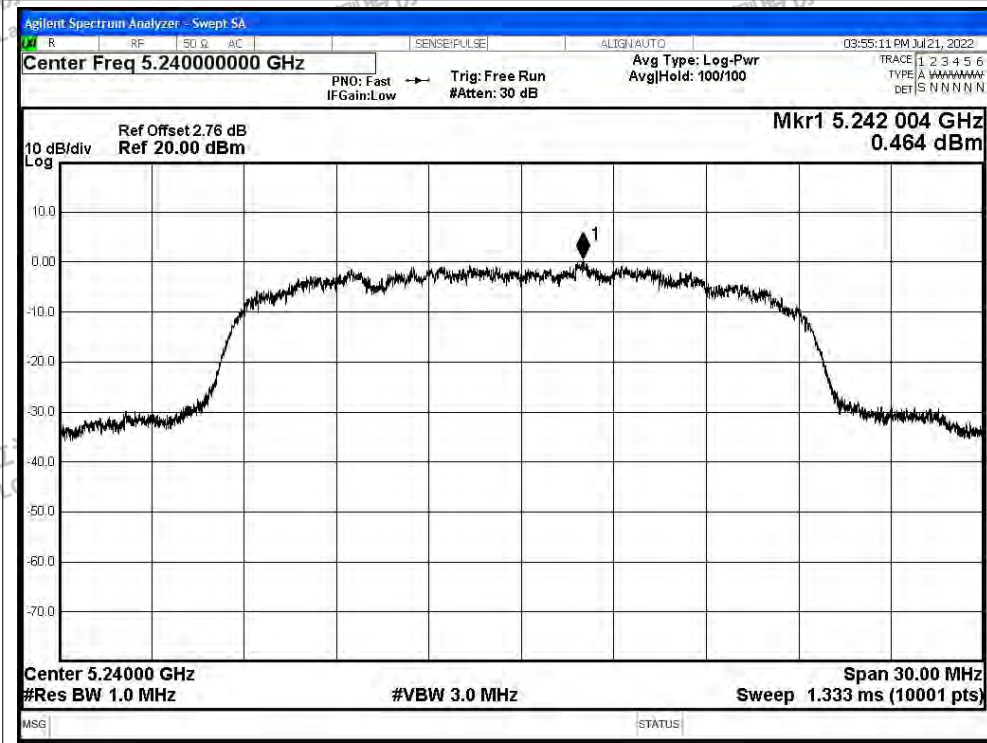




PSD NVNT n20 5200MHz Ant1

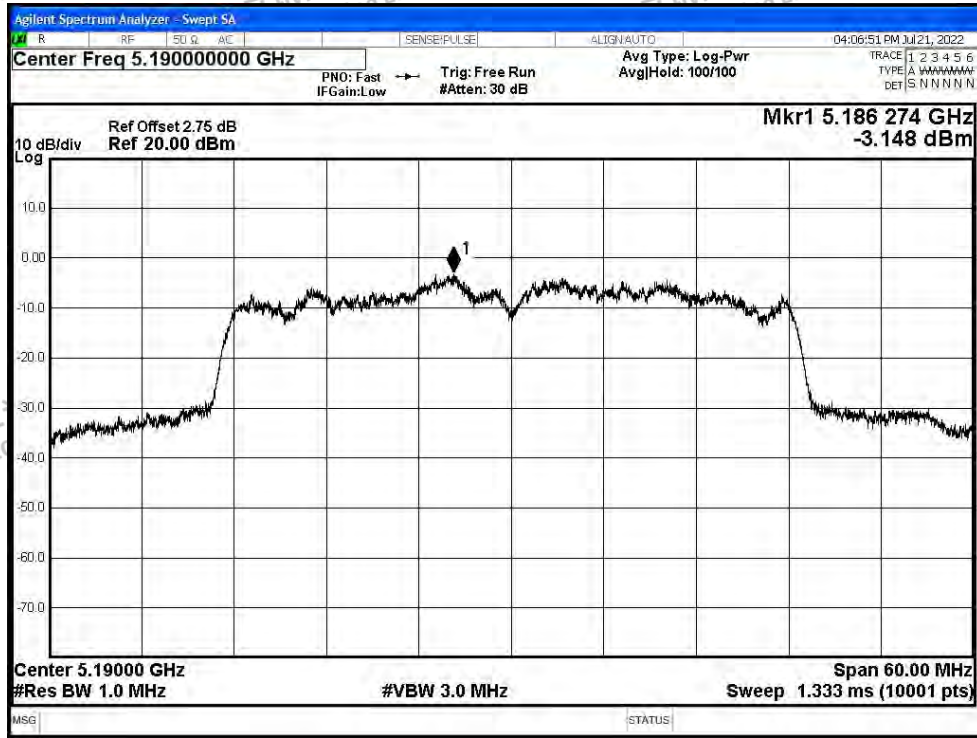


PSD NVNT n20 5240MHz Ant1

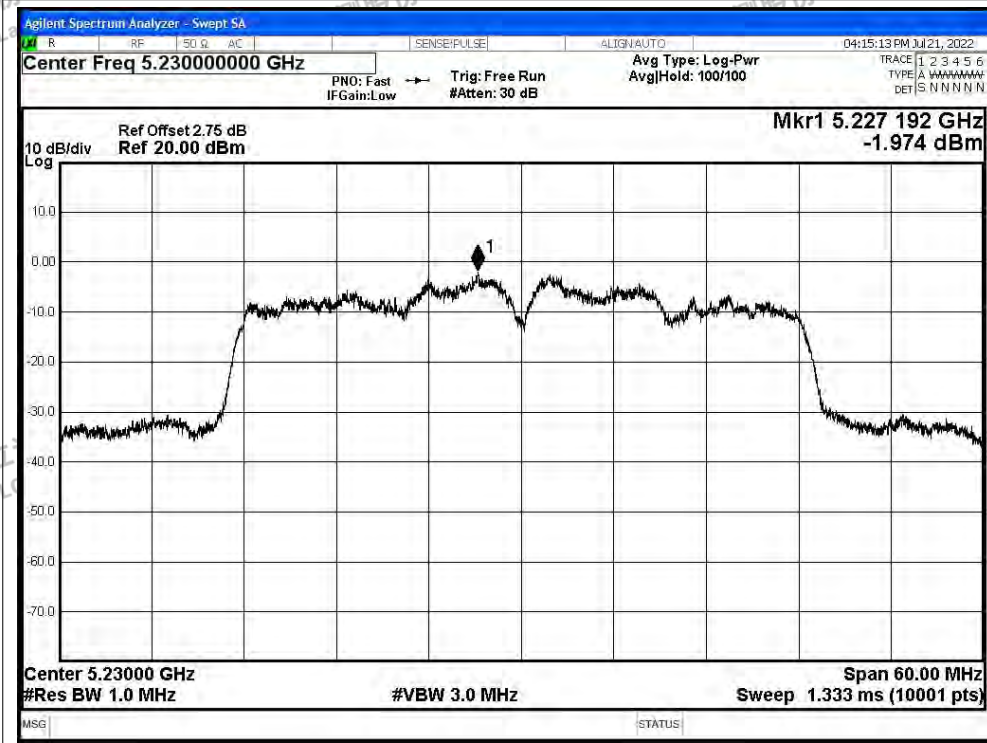




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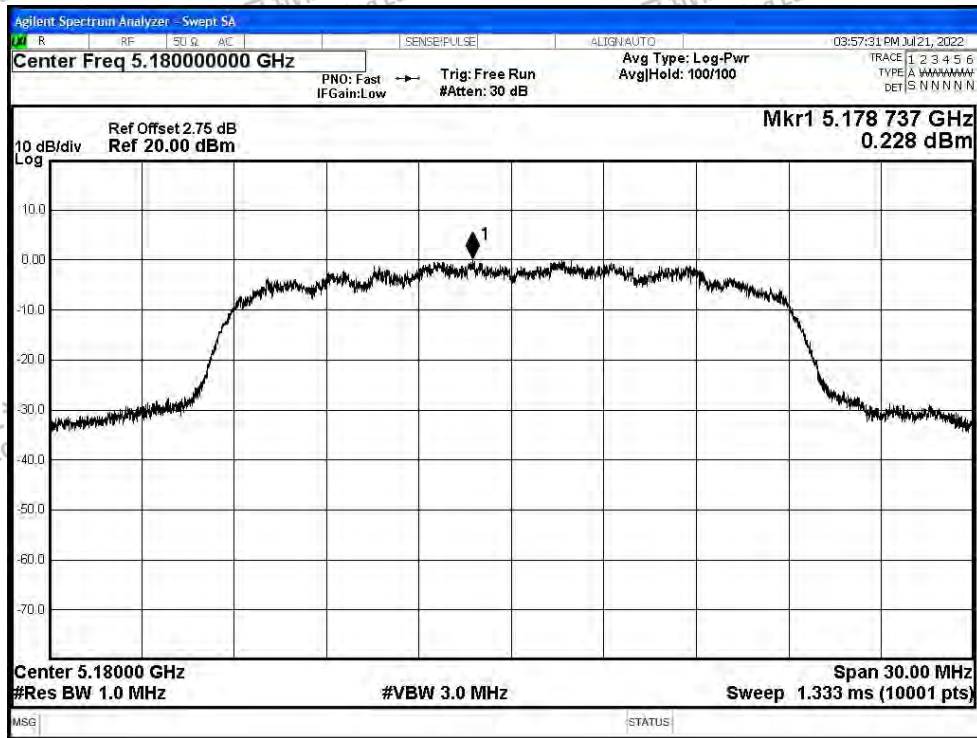


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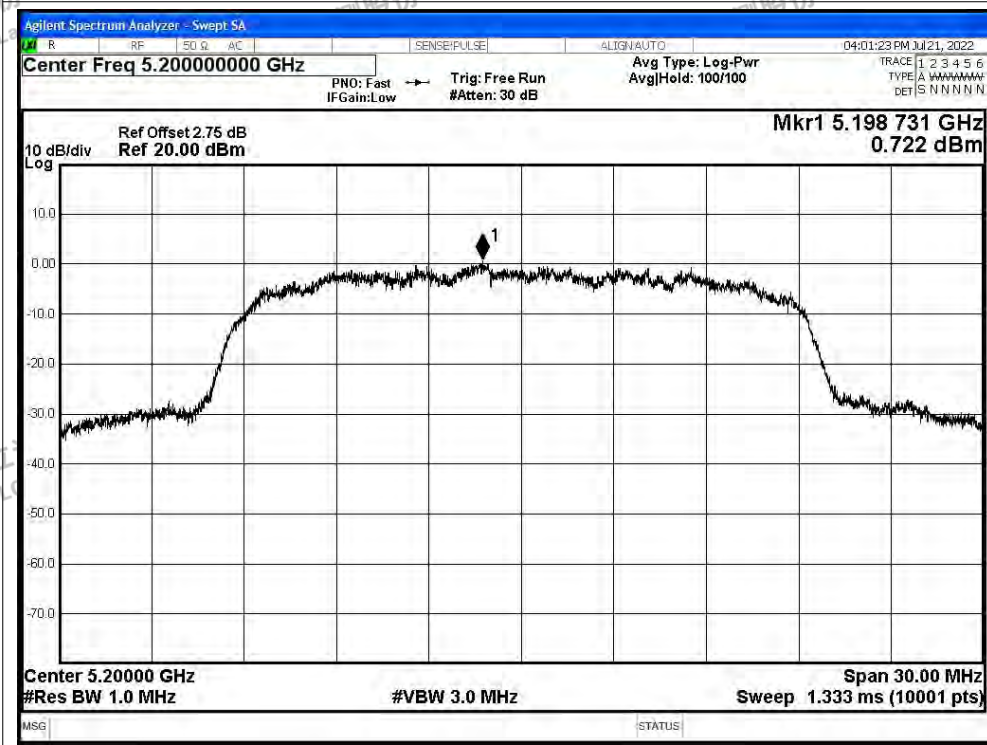




PSD NVNT ac20 5180MHz Ant1

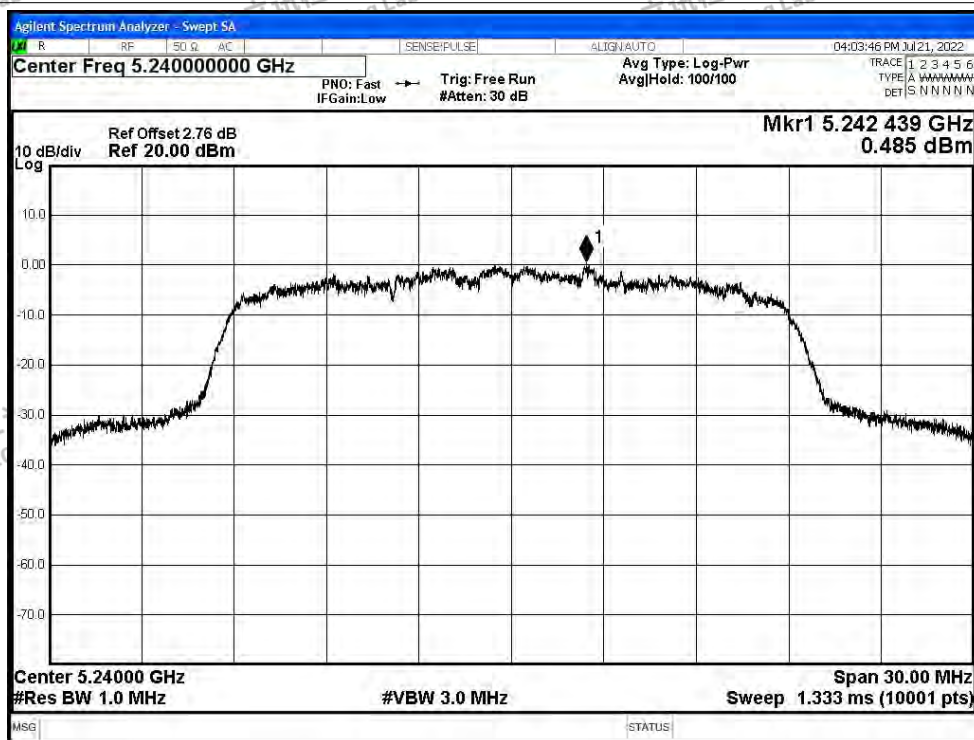


PSD NVNT ac20 5200MHz Ant1

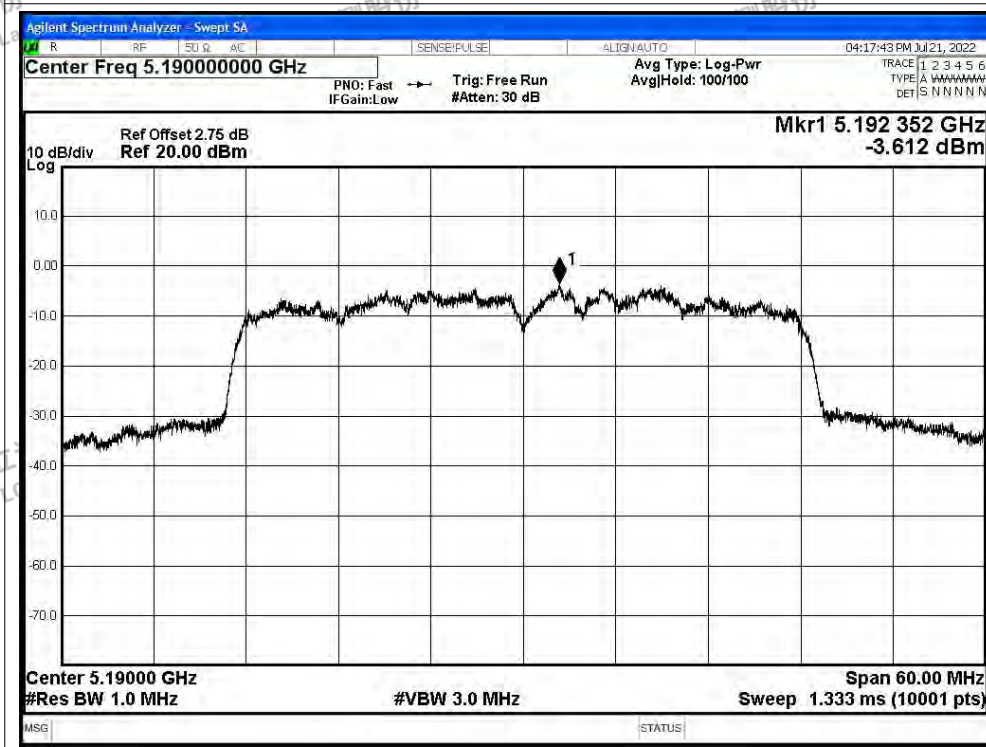




PSD NVNT ac20 5240MHz Ant1

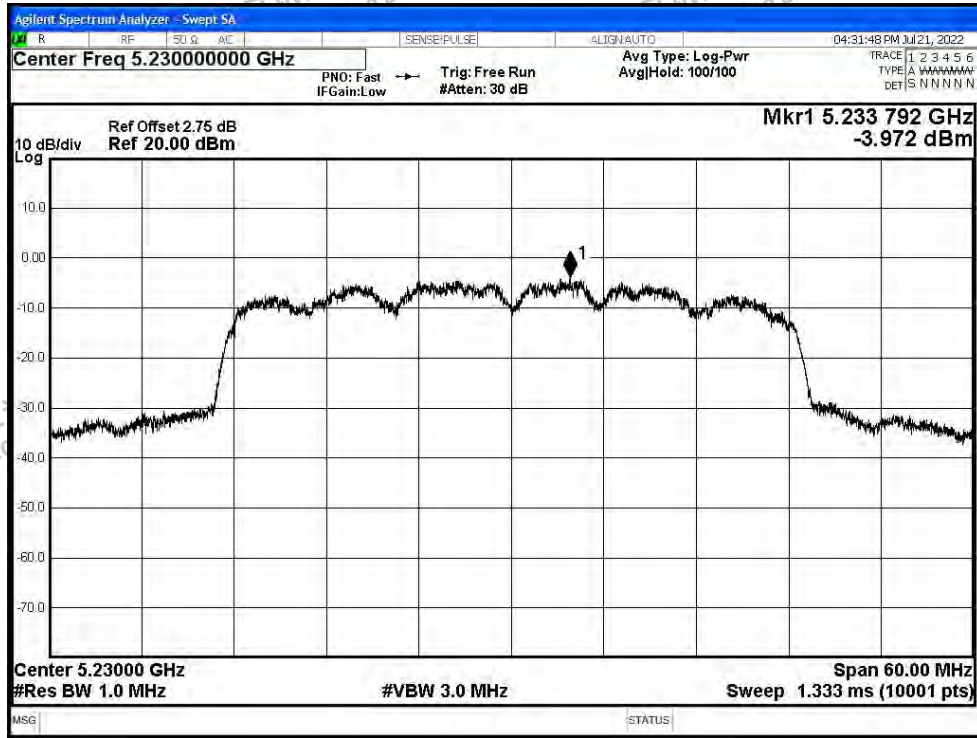


PSD NVNT ac40 5190MHz Ant1

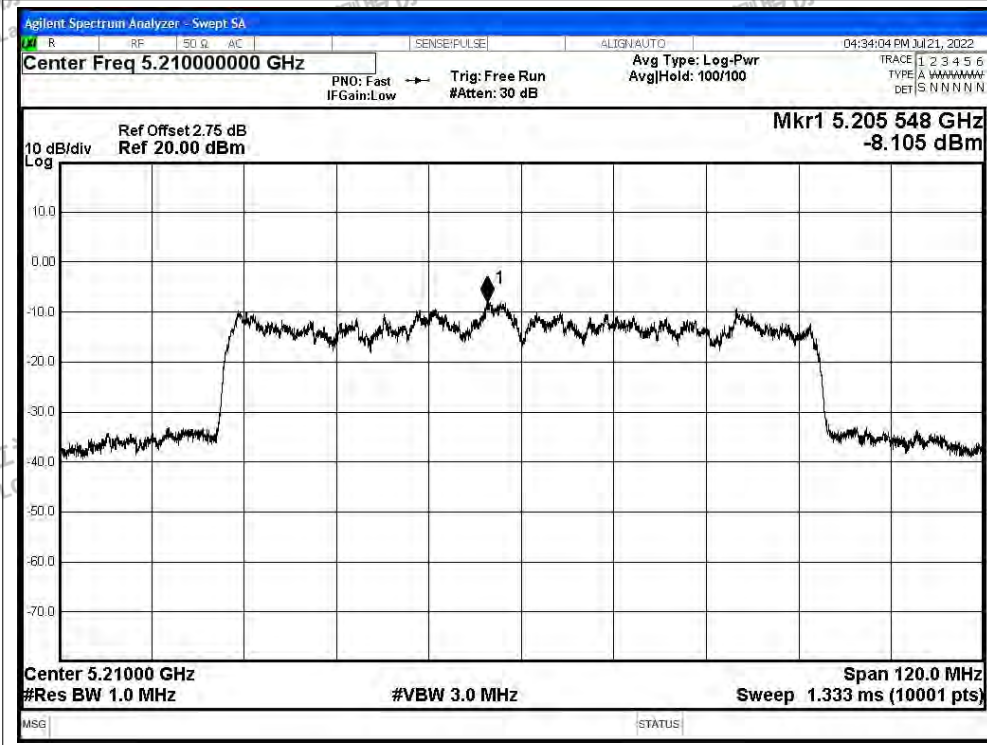




PSD NVNT ac40 5230MHz Ant1

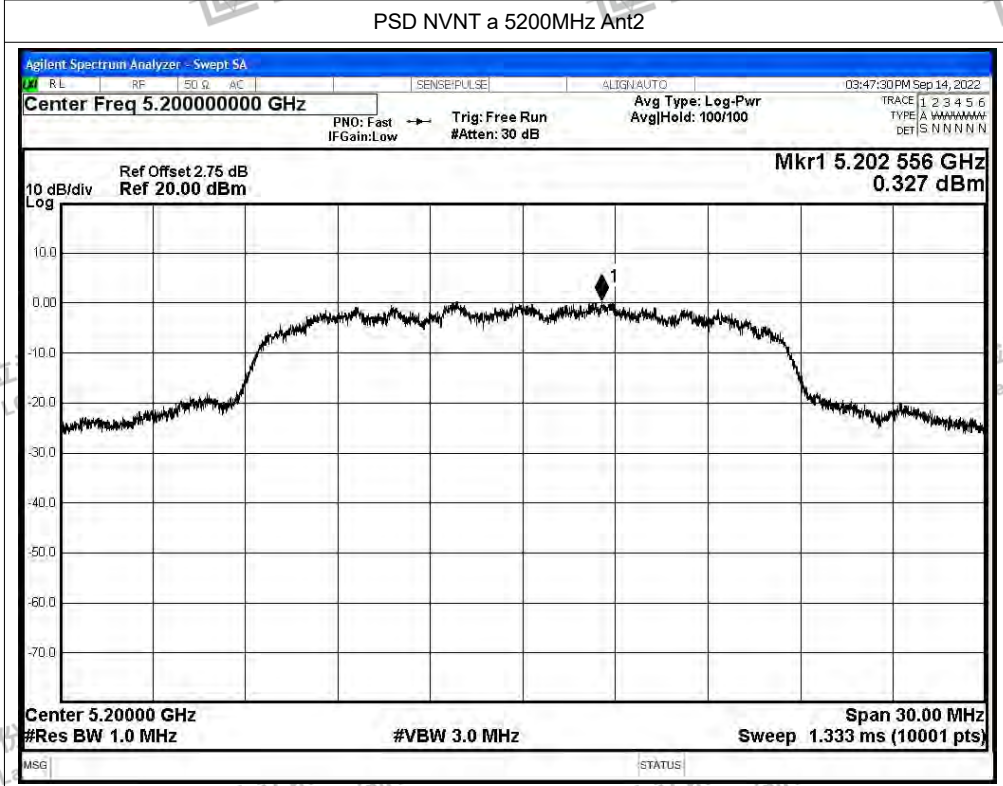
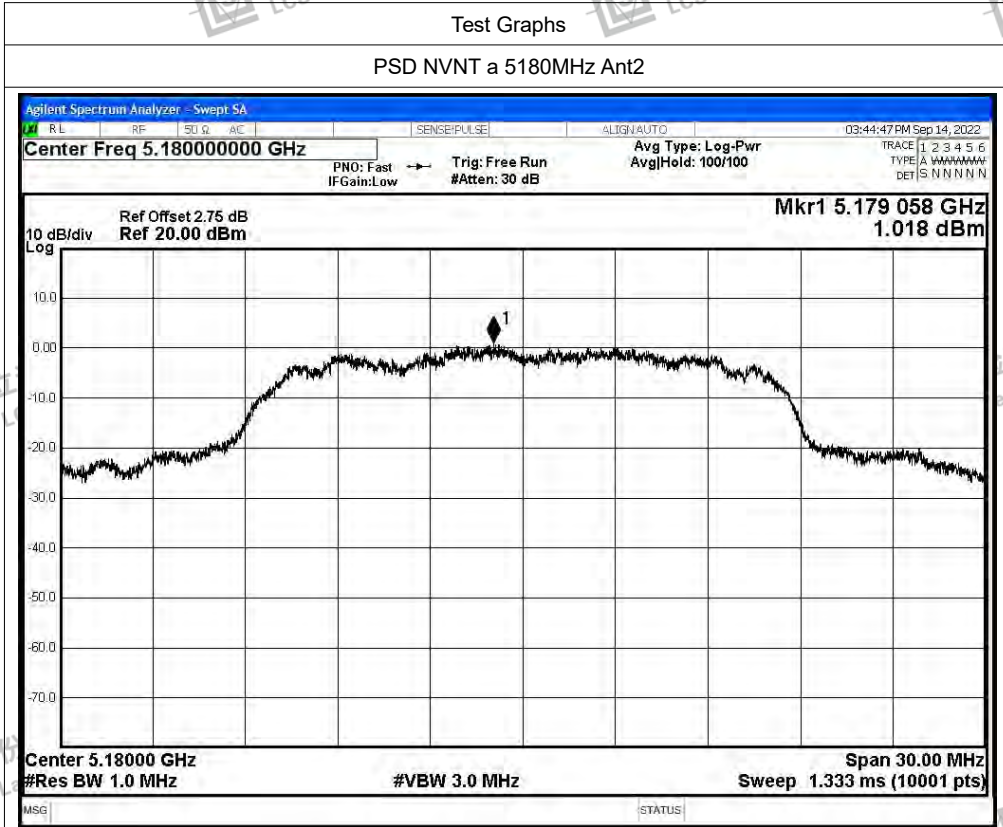


PSD NVNT ac80 5210MHz Ant1



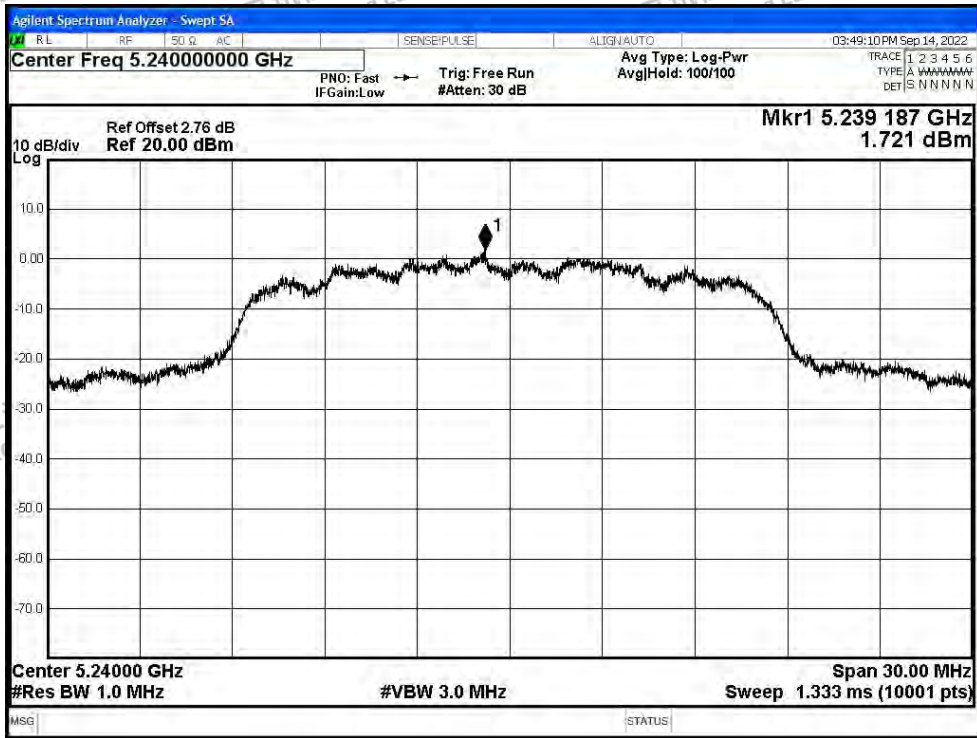


ANT2:

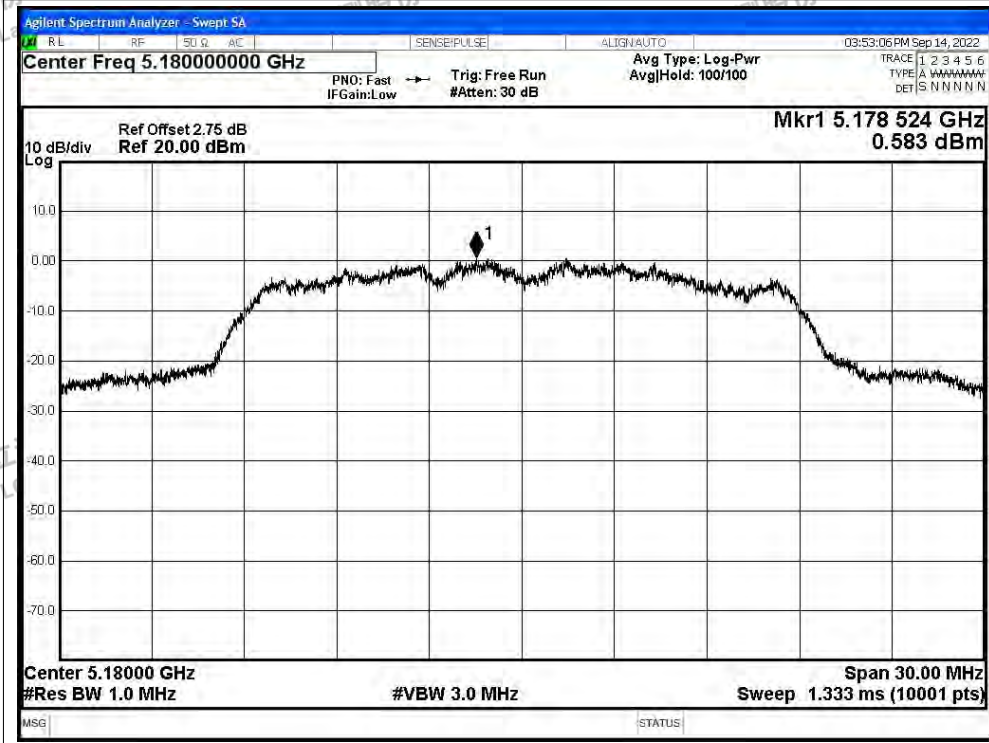




PSD NVNT a 5240MHz Ant2

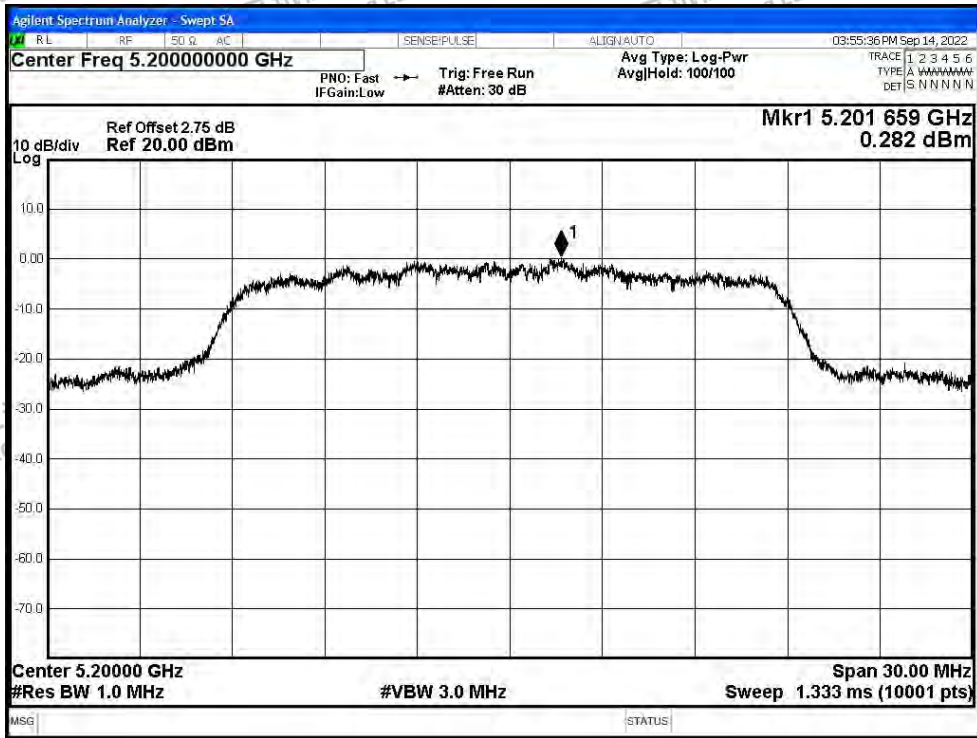


PSD NVNT n20 5180MHz Ant2

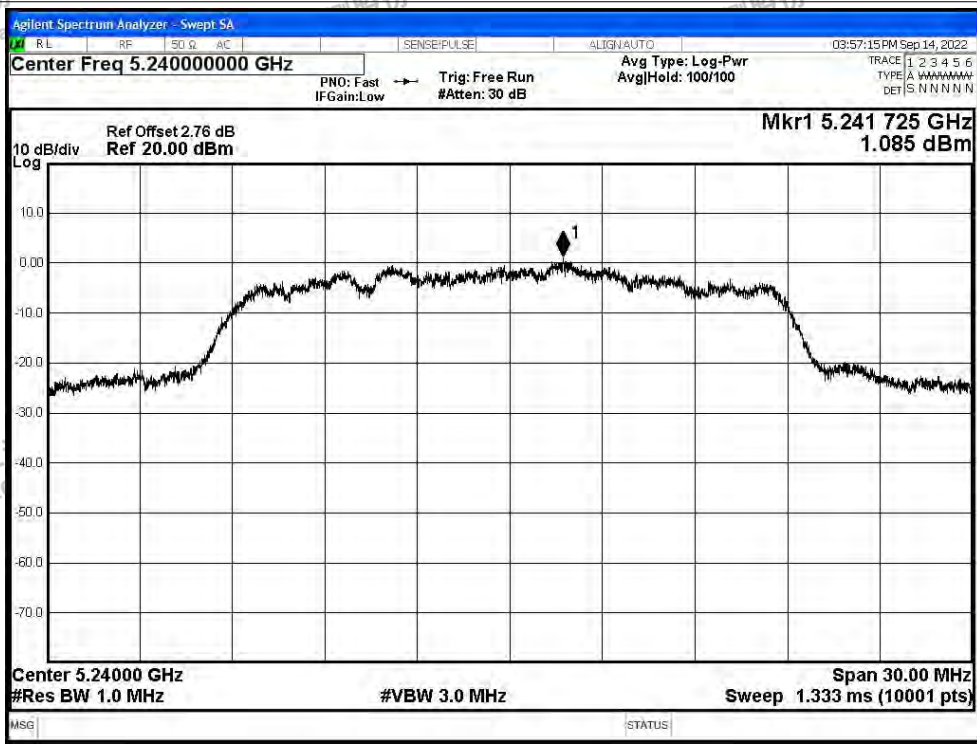




PSD NVNT n20 5200MHz Ant2

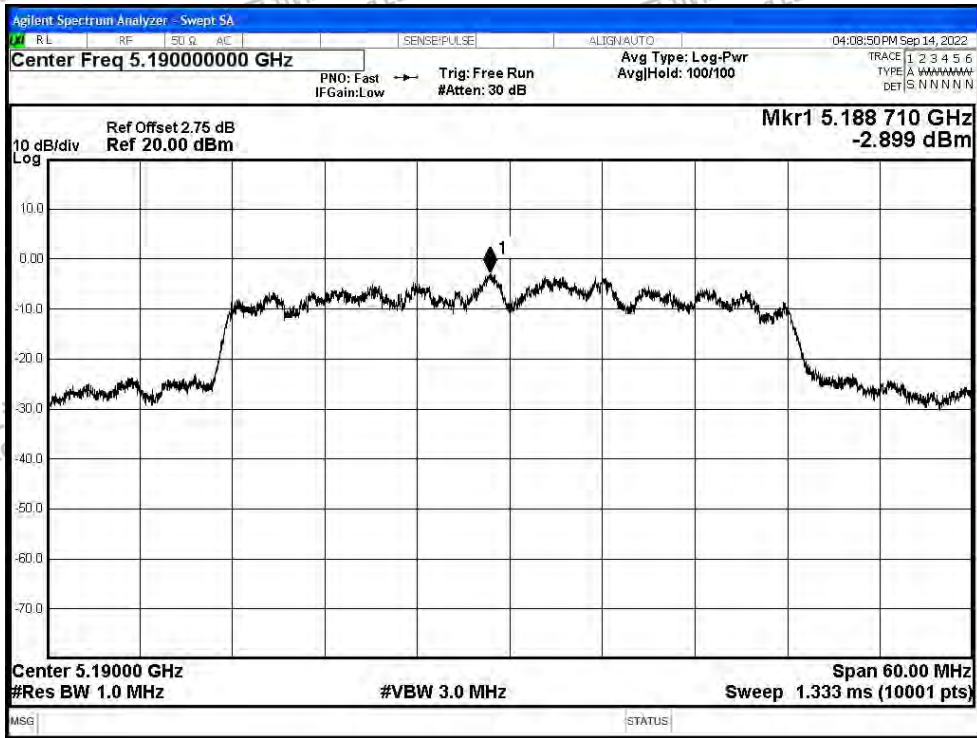


PSD NVNT n20 5240MHz Ant2





PSD NVNT n40 5190MHz Ant2

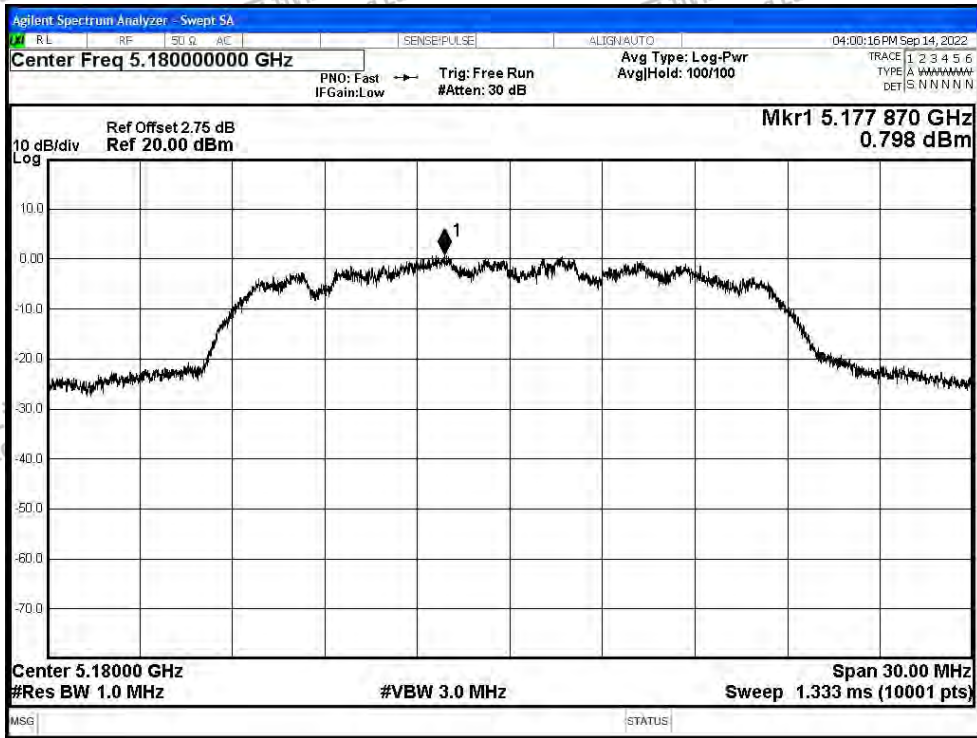


PSD NVNT n40 5230MHz Ant2

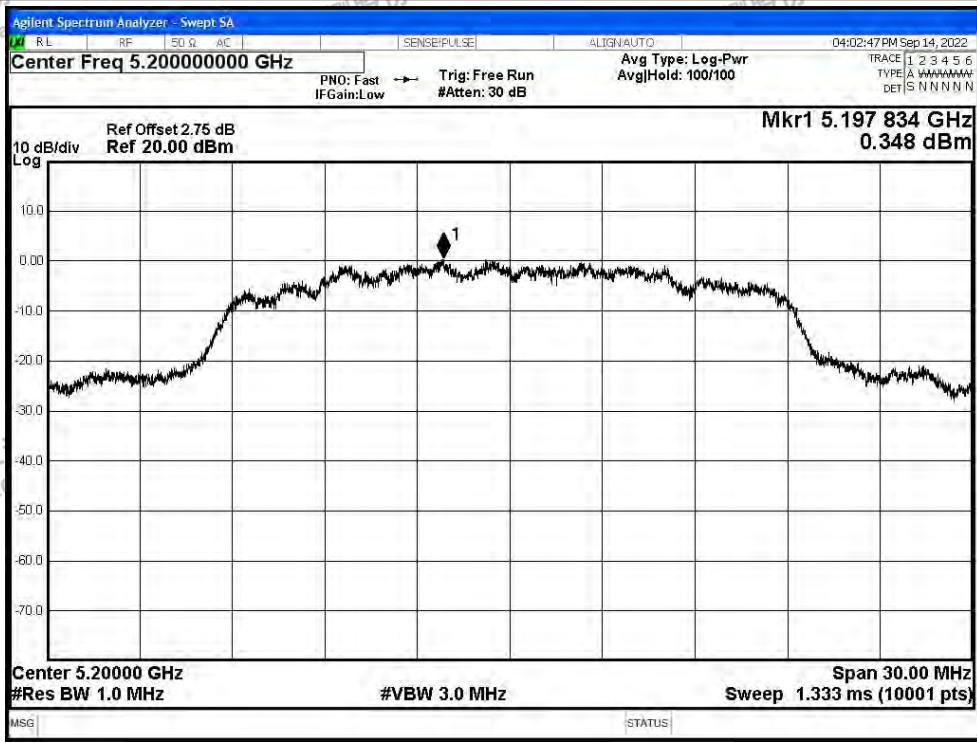




PSD NVNT ac20 5180MHz Ant2

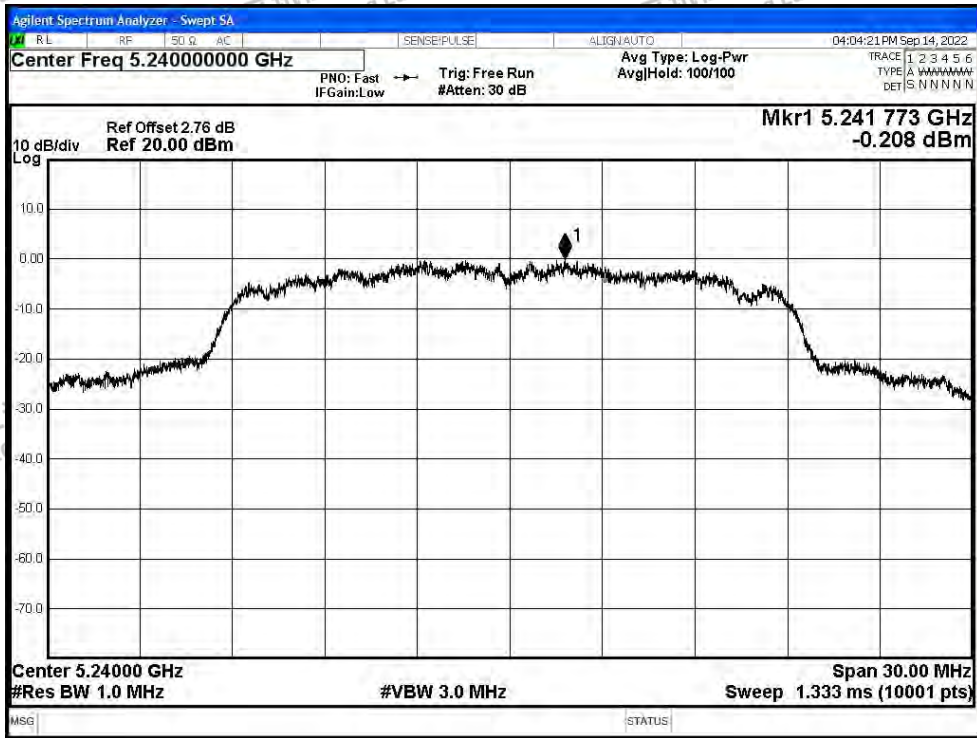


PSD NVNT ac20 5200MHz Ant2

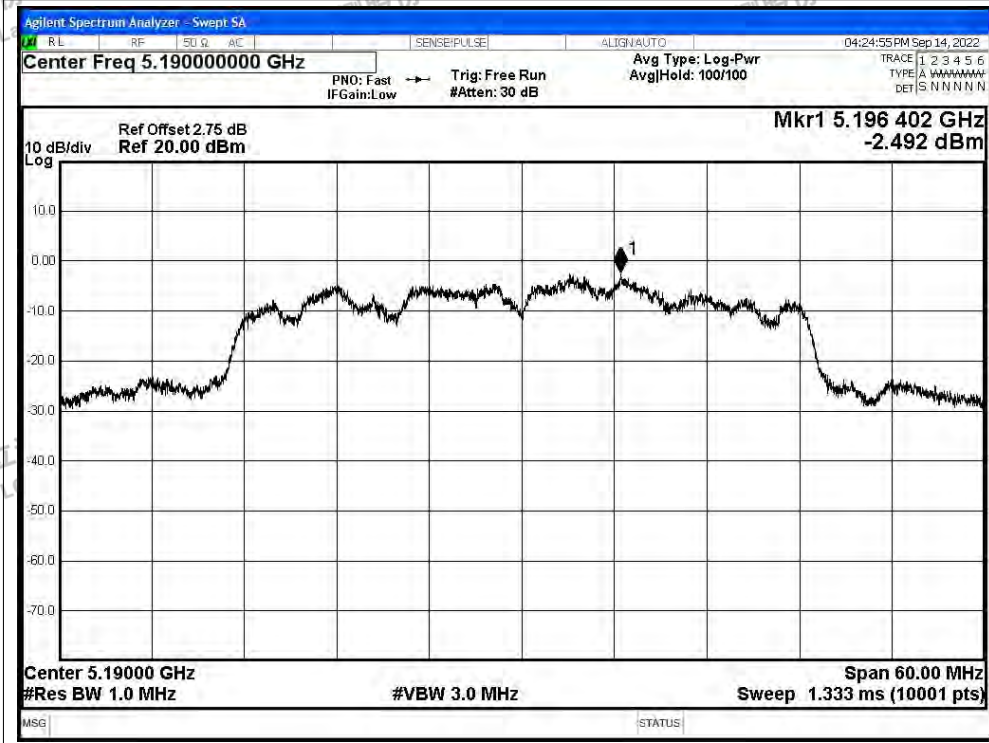




PSD NVNT ac20 5240MHz Ant2

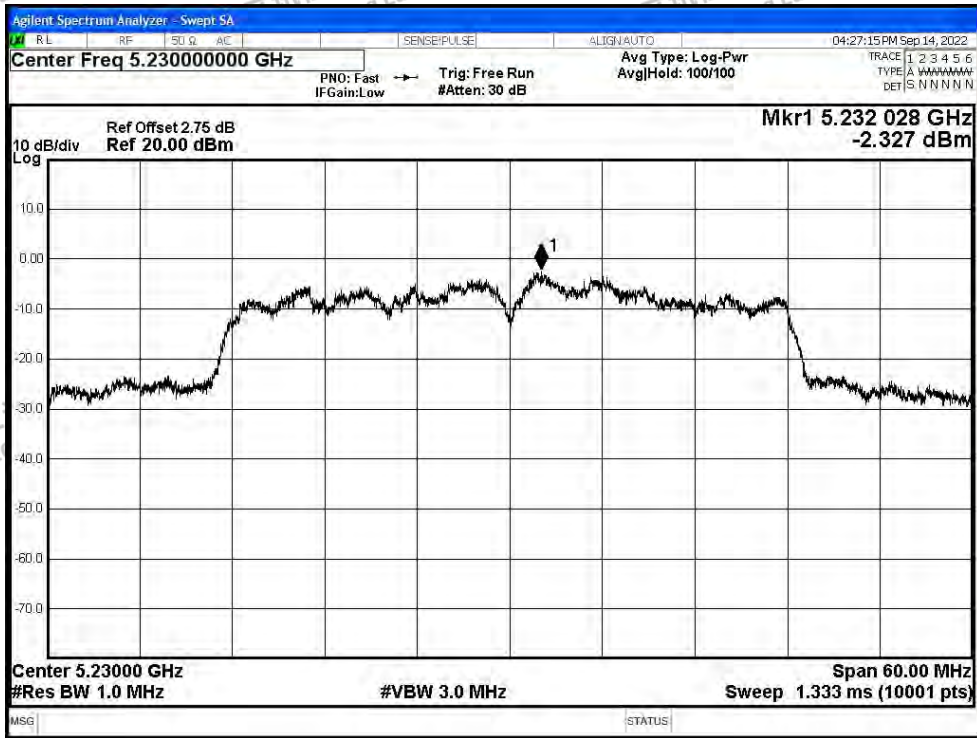


PSD NVNT ac40 5190MHz Ant2





PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant2





D.4 Restrict Band

Condition	Mode: MIMO	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-50.24	2.00	46.99	Peak	68.2	Pass
NVNT	a	5180	4500	-60.57	2.00	36.66	Average	54	Pass
NVNT	a	5180	5145.4	-40.47	2.00	56.76	Peak	68.2	Pass
NVNT	a	5180	5149.6	-50.99	2.00	46.24	Average	54	Pass
NVNT	a	5180	5150	-40.05	2.00	57.18	Peak	68.2	Pass
NVNT	a	5180	5150	-50.32	2.00	46.91	Average	54	Pass
NVNT	a	5240	5350	-48.58	2.00	48.65	Peak	68.2	Pass
NVNT	a	5240	5350	-57.82	2.00	39.41	Average	54	Pass
NVNT	a	5240	5411.04	-46.58	2.00	50.65	Peak	68.2	Pass
NVNT	a	5240	5359.92	-57.66	2.00	39.57	Average	54	Pass
NVNT	a	5240	5460	-50.64	2.00	46.59	Peak	68.2	Pass
NVNT	a	5240	5460	-59.61	2.00	37.62	Average	54	Pass
NVNT	n20-MIMO	5180	4500	-52.14	5.01	48.10	Peak	68.2	Pass
NVNT	n20-MIMO	5180	4500	-60.43	5.01	39.81	Average	54	Pass
NVNT	n20-MIMO	5180	5148.2	-35.9	5.01	64.34	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5149.6	-51.06	5.01	49.18	Average	54	Pass
NVNT	n20-MIMO	5180	5150	-38.49	5.01	61.75	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5150	-50.64	5.01	49.60	Average	54	Pass
NVNT	n20-MIMO	5240	5350	-47.32	5.01	52.92	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5350	-57.8	5.01	42.44	Average	54	Pass
NVNT	n20-MIMO	5240	5431.92	-45.88	5.01	54.36	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5360.16	-57.55	5.01	42.69	Average	54	Pass
NVNT	n20-MIMO	5240	5460	-50.3	5.01	49.94	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5460	-59.54	5.01	40.70	Average	54	Pass
NVNT	n40-MIMO	5190	4500	-51.18	5.01	49.06	Peak	68.2	Pass
NVNT	n40-MIMO	5190	4500	-60.24	5.01	40.00	Average	54	Pass
NVNT	n40-MIMO	5190	5132.91	-42.1	5.01	58.14	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5149.7	-53.76	5.01	46.48	Average	54	Pass
NVNT	n40-MIMO	5190	5150	-43.8	5.01	56.44	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5150	-53.44	5.01	46.80	Average	54	Pass
NVNT	n40-MIMO	5230	5350	-46.17	5.01	54.07	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5350	-57.5	5.01	42.74	Average	54	Pass
NVNT	n40-MIMO	5230	5363.07	-46.17	5.01	54.07	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5350.65	-57.48	5.01	42.76	Average	54	Pass
NVNT	n40-MIMO	5230	5460	-49.57	5.01	50.67	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5460	-59.38	5.01	40.86	Average	54	Pass
NVNT	ac20-MIMO	5180	4500	-49.38	5.01	50.86	Peak	68.2	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



NVNT	ac20-MIMO	5180	4500	-60.53	5.01	39.71	Average	54	Pass
NVNT	ac20-MIMO	5180	5148.2	-38.07	5.01	62.17	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5149.6	-50.87	5.01	49.37	Average	54	Pass
NVNT	ac20-MIMO	5180	5150	-38.07	5.01	62.17	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5150	-50.5	5.01	49.74	Average	54	Pass
NVNT	ac20-MIMO	5240	5350	-49.17	5.01	51.07	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5350	-57.74	5.01	42.50	Average	54	Pass
NVNT	ac20-MIMO	5240	5351.52	-45.71	5.01	54.53	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5360.16	-57.52	5.01	42.72	Average	54	Pass
NVNT	ac20-MIMO	5240	5460	-49.53	5.01	50.71	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5460	-59.72	5.01	40.52	Average	54	Pass
NVNT	ac40-MIMO	5190	4500	-51.22	5.01	49.02	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	4500	-60.31	5.01	39.93	Average	54	Pass
NVNT	ac40-MIMO	5190	5148.97	-41.81	5.01	58.43	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5148.97	-53.68	5.01	46.56	Average	54	Pass
NVNT	ac40-MIMO	5190	5150	-40.52	5.01	59.72	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5150	-53.37	5.01	46.87	Average	54	Pass
NVNT	ac40-MIMO	5230	5350	-47.96	5.01	52.28	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5350	-57.36	5.01	42.88	Average	54	Pass
NVNT	ac40-MIMO	5230	5432.46	-47.15	5.01	53.09	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5350.11	-57.36	5.01	42.88	Average	54	Pass
NVNT	ac40-MIMO	5230	5460	-51.57	5.01	48.67	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5460	-59.48	5.01	40.76	Average	54	Pass
NVNT	ac80-MIMO	5210	5350	-50.13	5.01	50.11	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5350	-58.25	5.01	41.99	Average	54	Pass
NVNT	ac80-MIMO	5210	5357.7	-46.88	5.01	53.36	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5357.04	-57.66	5.01	42.58	Average	54	Pass
NVNT	ac80-MIMO	5210	5460	-51.53	5.01	48.71	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5460	-59.13	5.01	41.11	Average	54	Pass
NVNT	ac80-MIMO	5210	4500	-51.05	5.01	49.19	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	4500	-59.81	5.01	40.43	Average	54	Pass
NVNT	ac80-MIMO	5210	5143.06	-37.44	5.01	62.80	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5149.38	-47.39	5.01	52.85	Average	54	Pass
NVNT	ac80-MIMO	5210	5150	-39.44	5.01	60.80	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5150	-47.17	5.01	53.07	Average	54	Pass

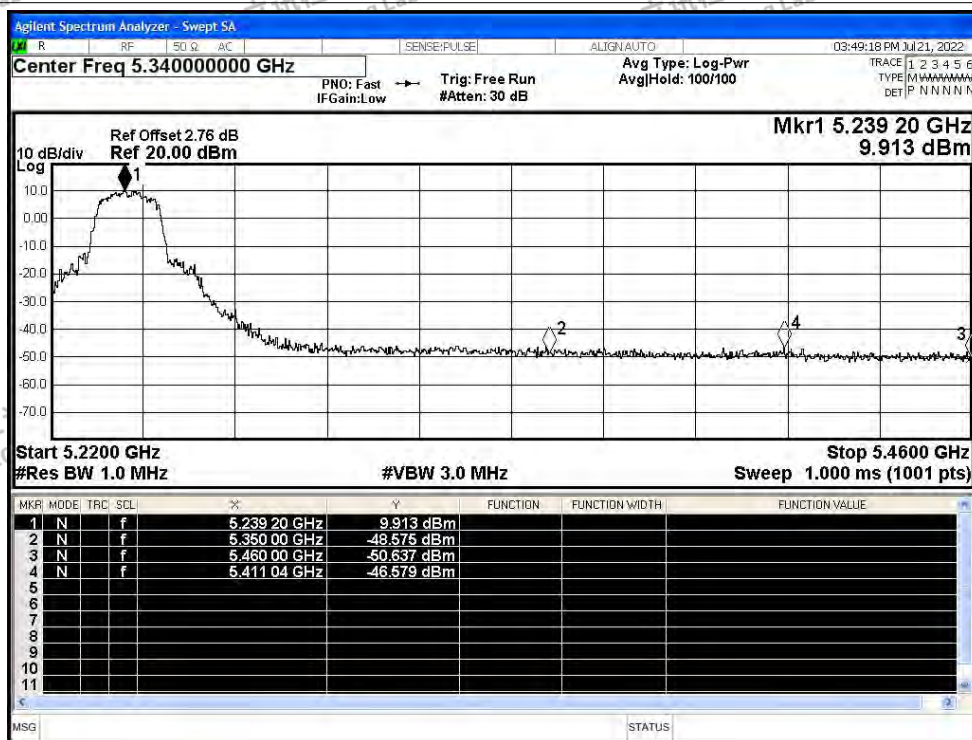
Note: 802.11a mode, only show the worst set of antenna data.



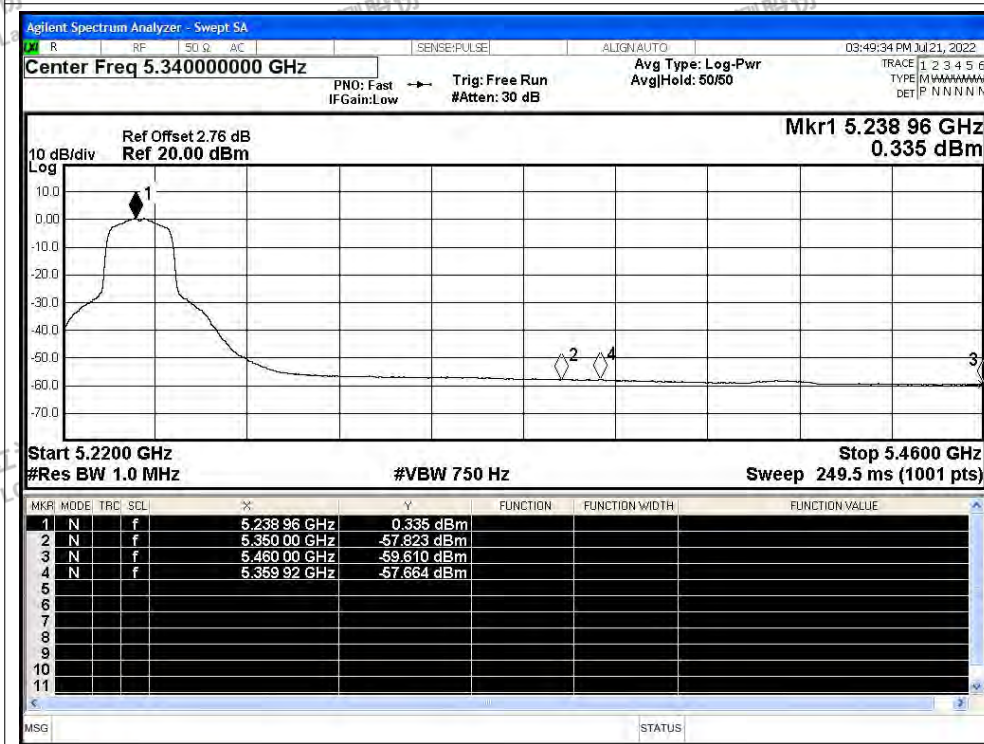
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



Restrict Band NVNT a 5240MHz Peak

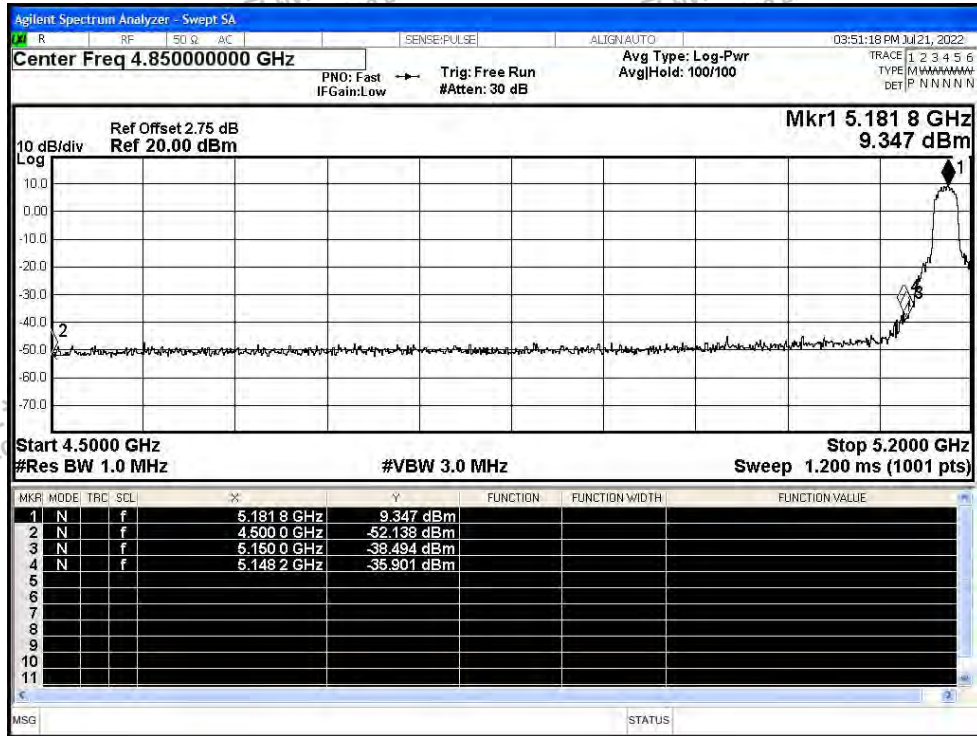


Restrict Band NVNT a 5240MHz Average

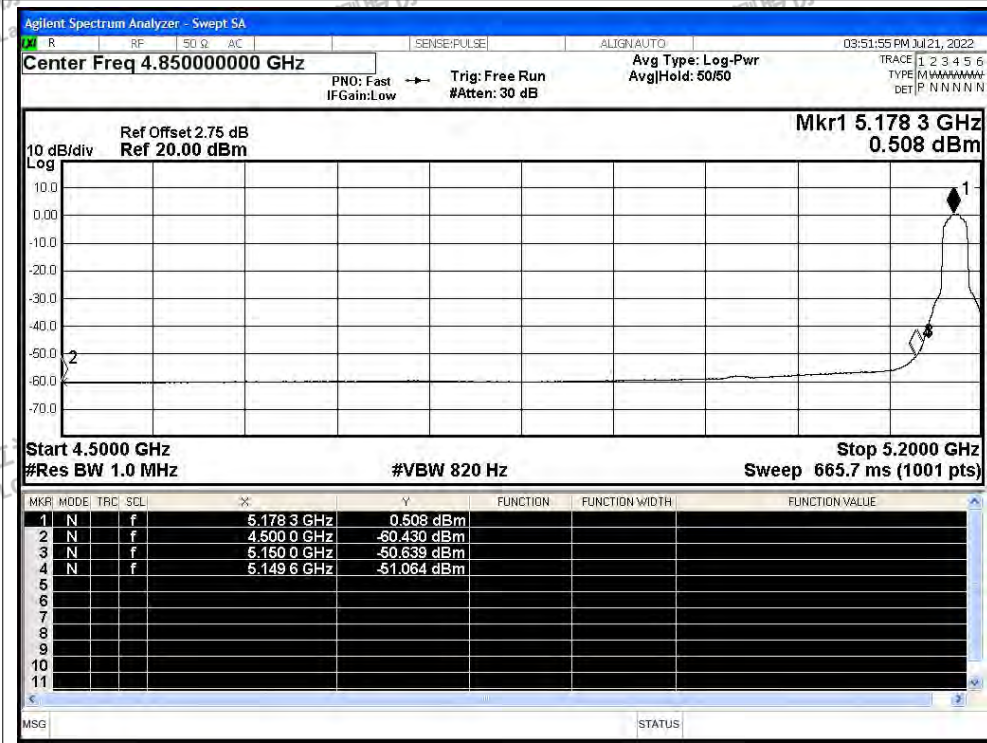




Restrict Band NVNT n20-MIMO 5180MHz Peak

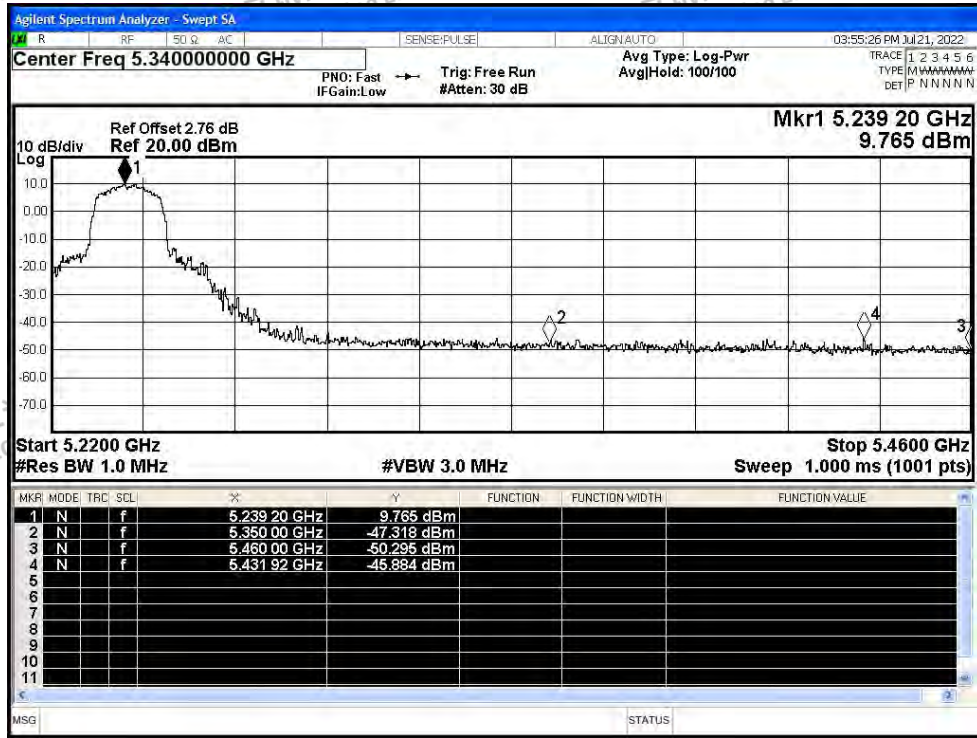


Restrict Band NVNT n20-MIMO 5180MHz Average

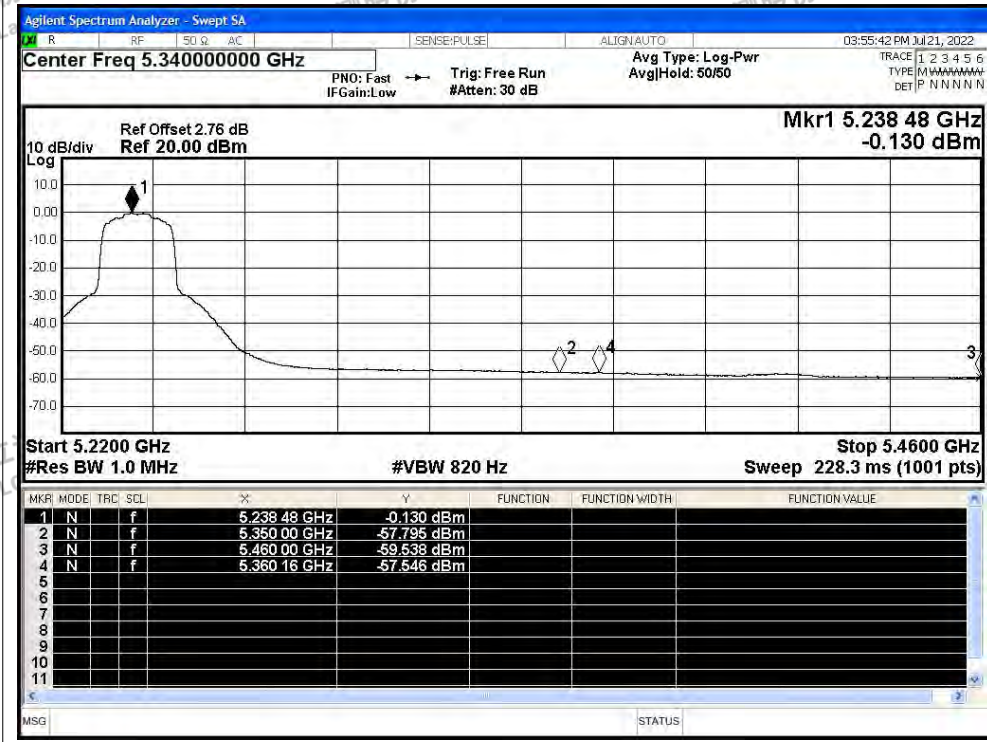




Restrict Band NVNT n20-MIMO 5240MHz Peak

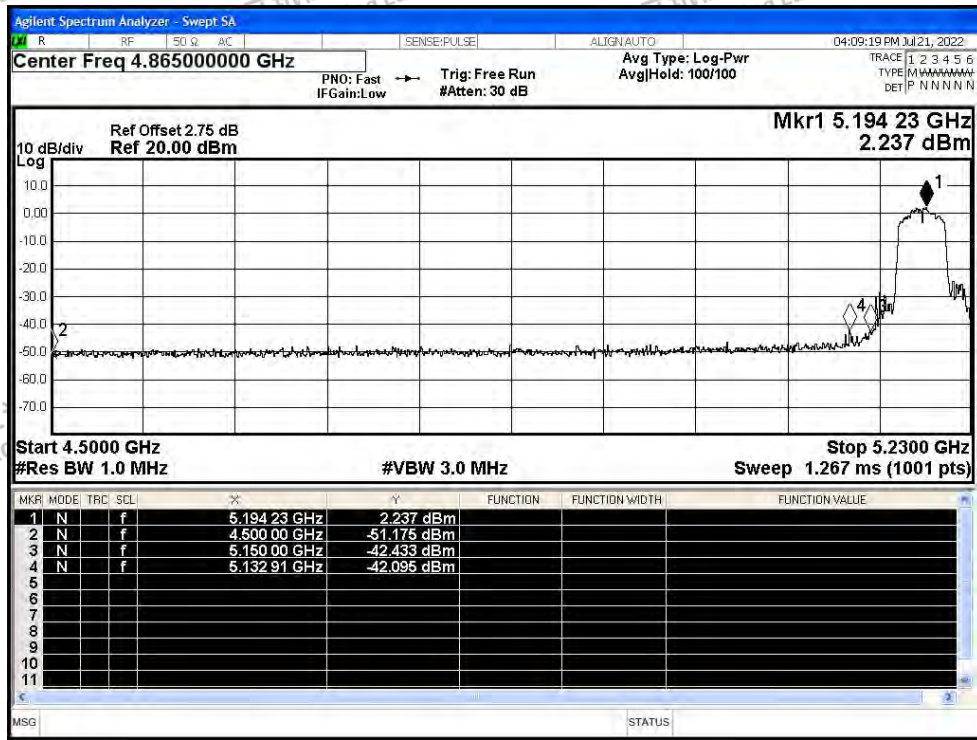


Restrict Band NVNT n20-MIMO 5240MHz Average

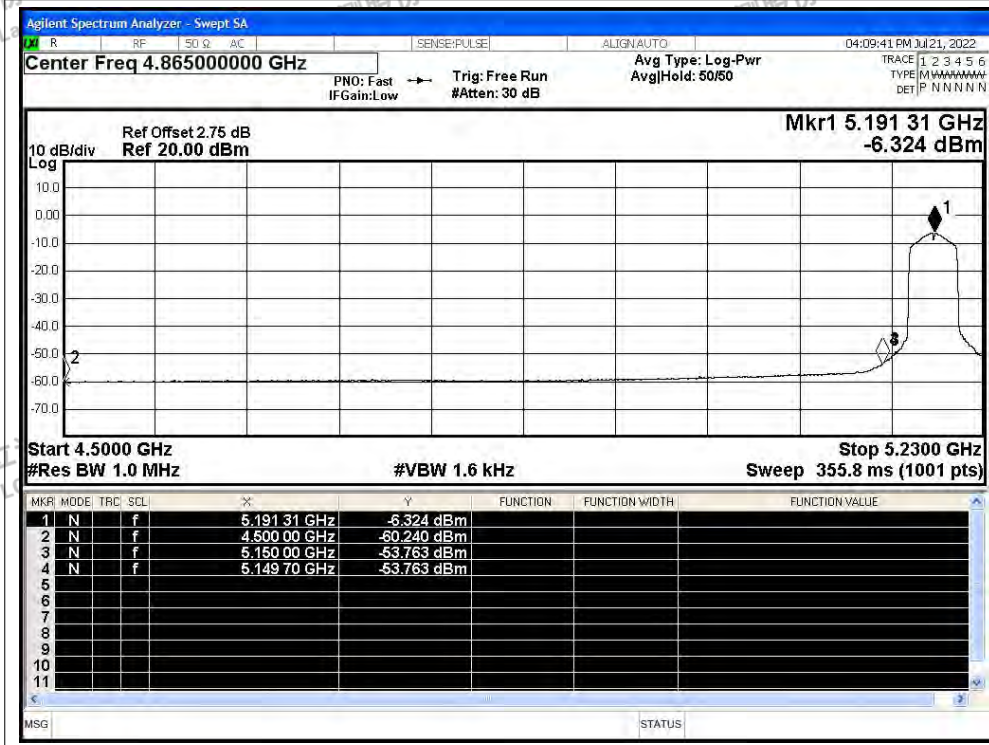




Restrict Band NVNT n40-MIMO 5190MHz Peak

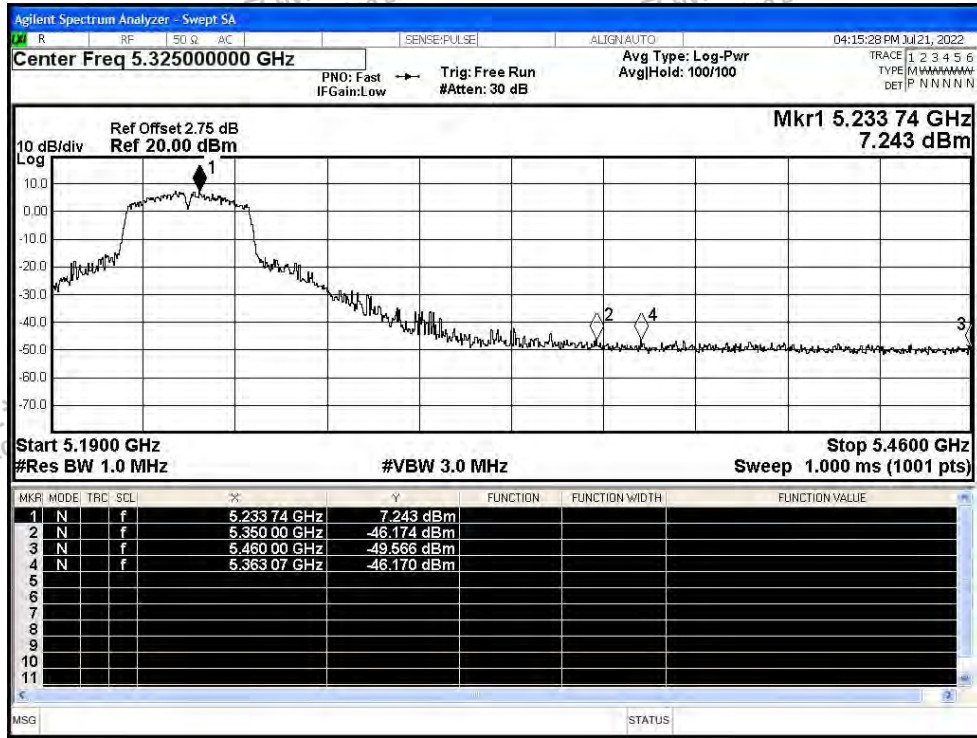


Restrict Band NVNT n40-MIMO 5190MHz Average

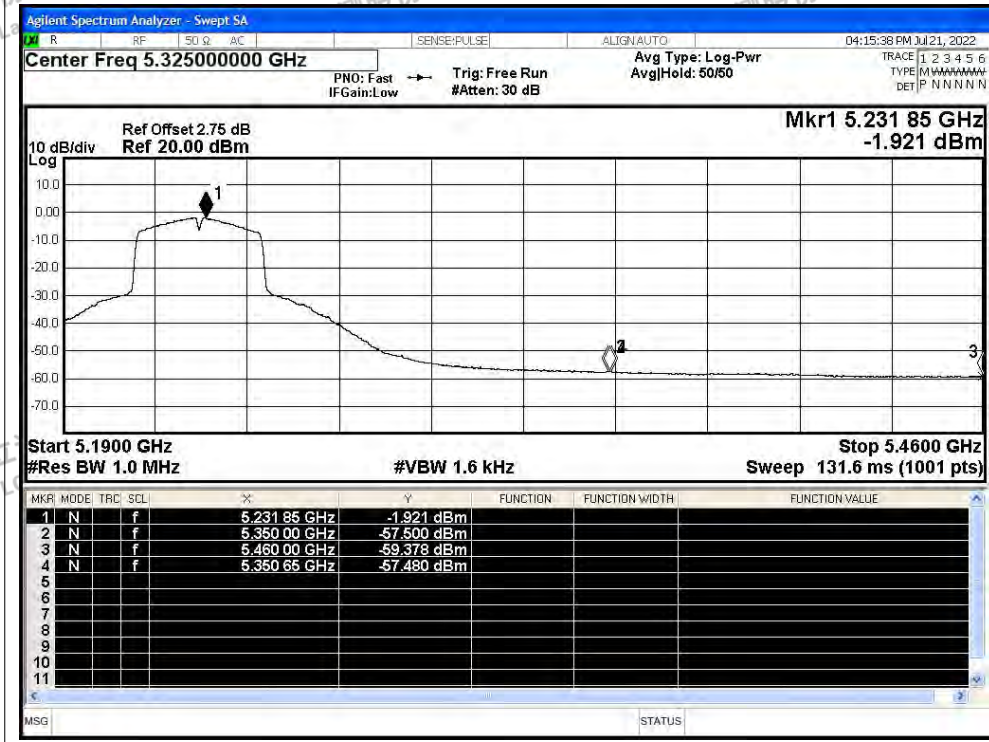




Restrict Band NVNT n40-MIMO 5230MHz Peak

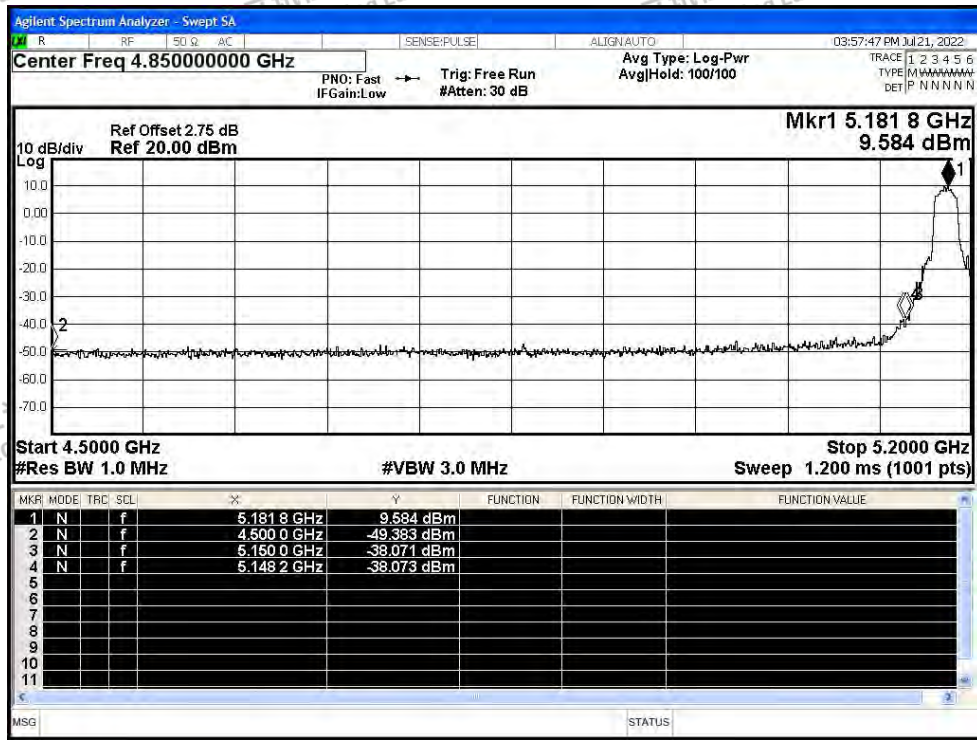


Restrict Band NVNT n40-MIMO 5230MHz Average

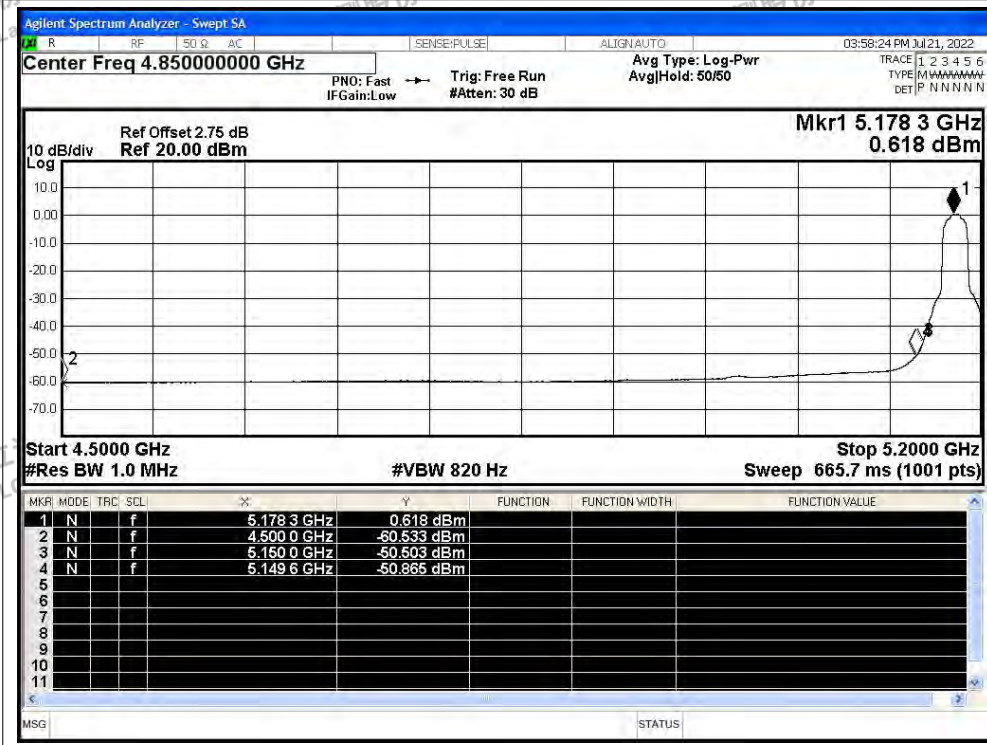




Restrict Band NVNT ac20-MIMO 5180MHz Peak

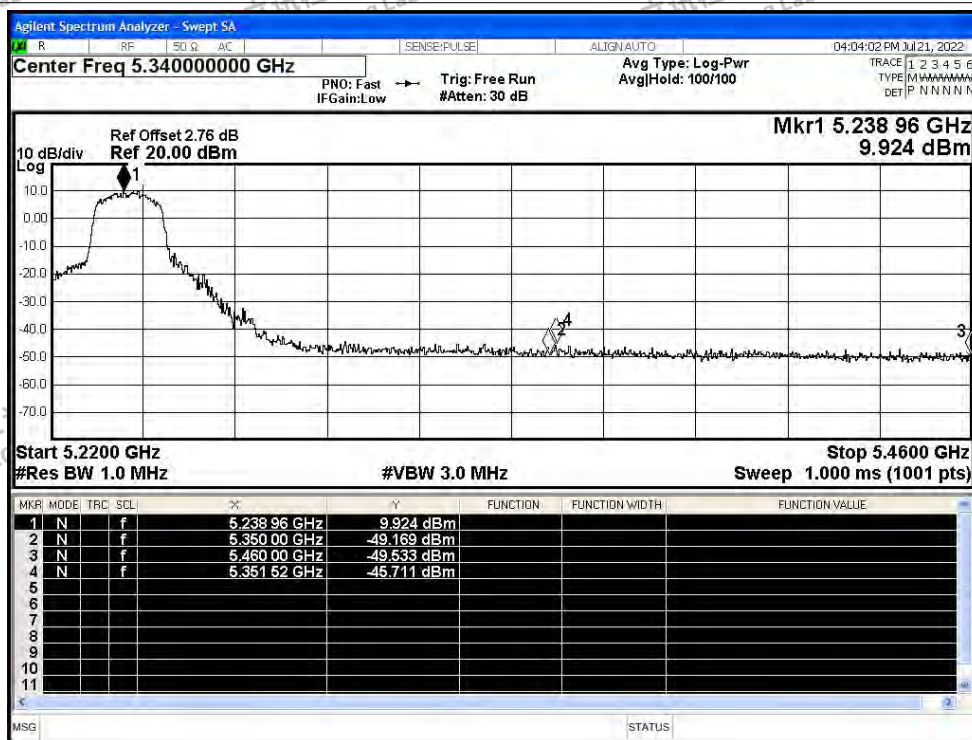


Restrict Band NVNT ac20-MIMO 5180MHz Average

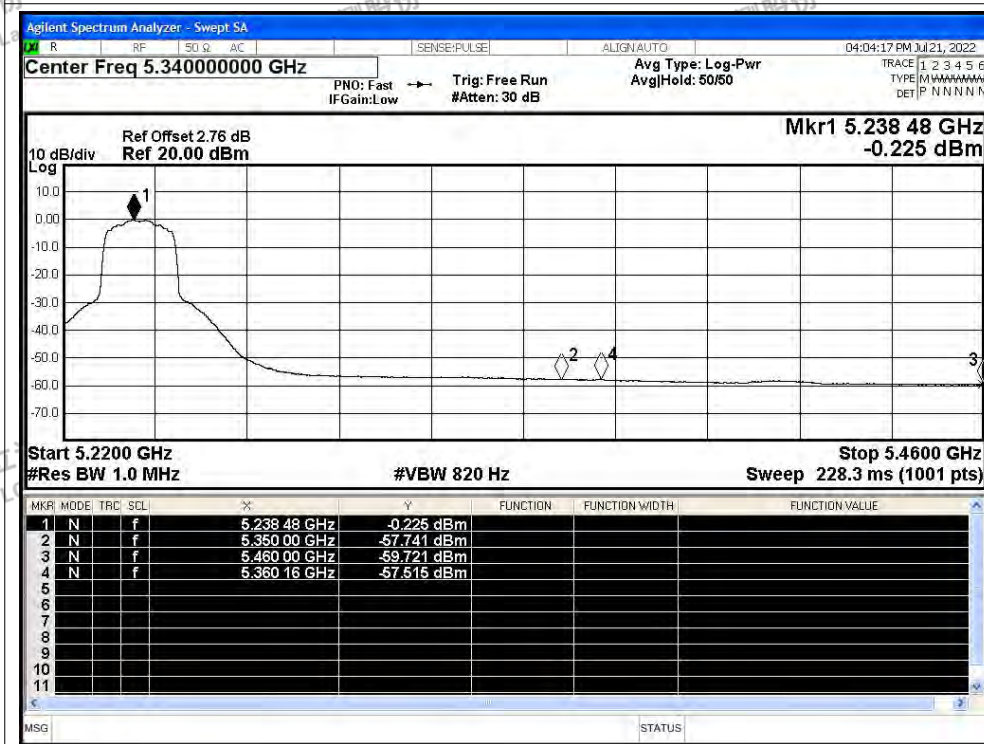




Restrict Band NVNT ac20-MIMO 5240MHz Peak

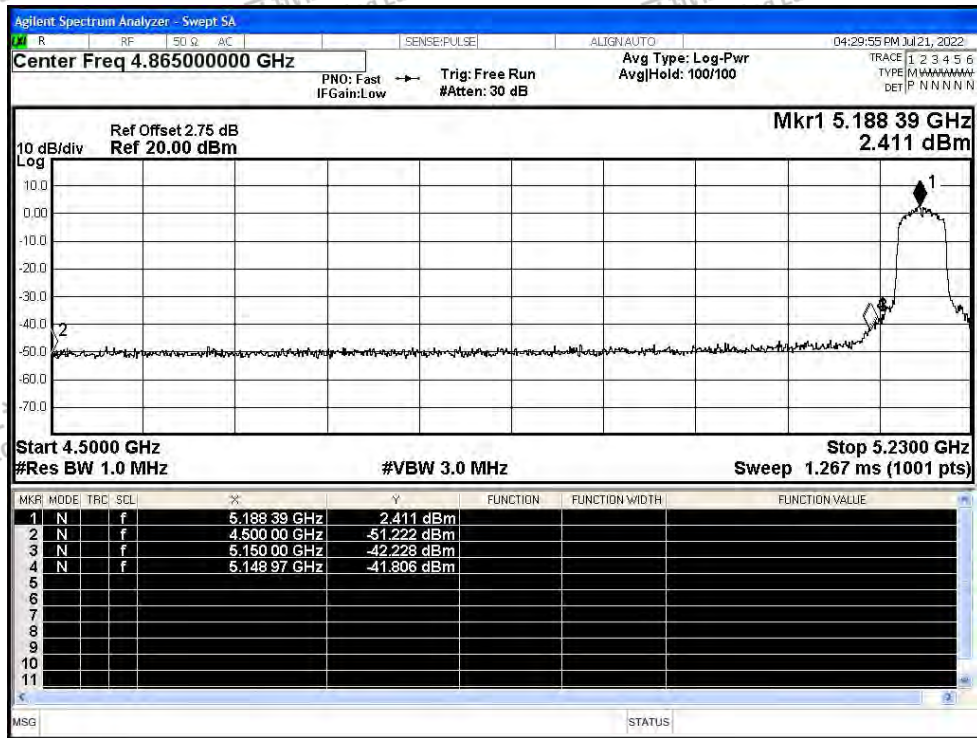


Restrict Band NVNT ac20-MIMO 5240MHz Average

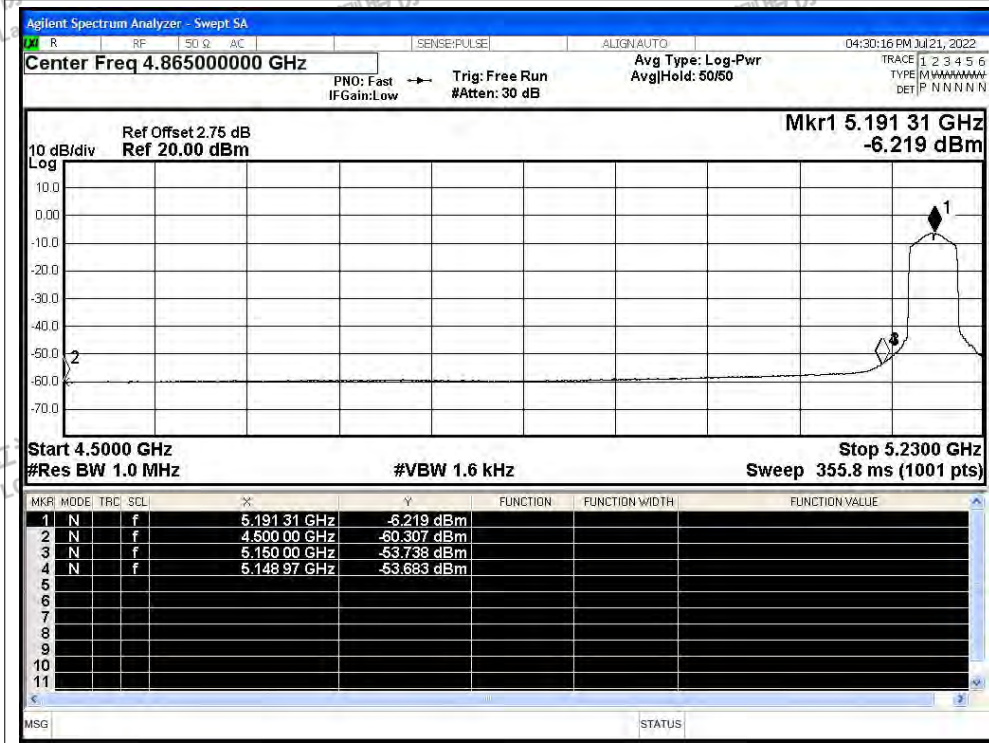




Restrict Band NVNT ac40-MIMO 5190MHz Peak

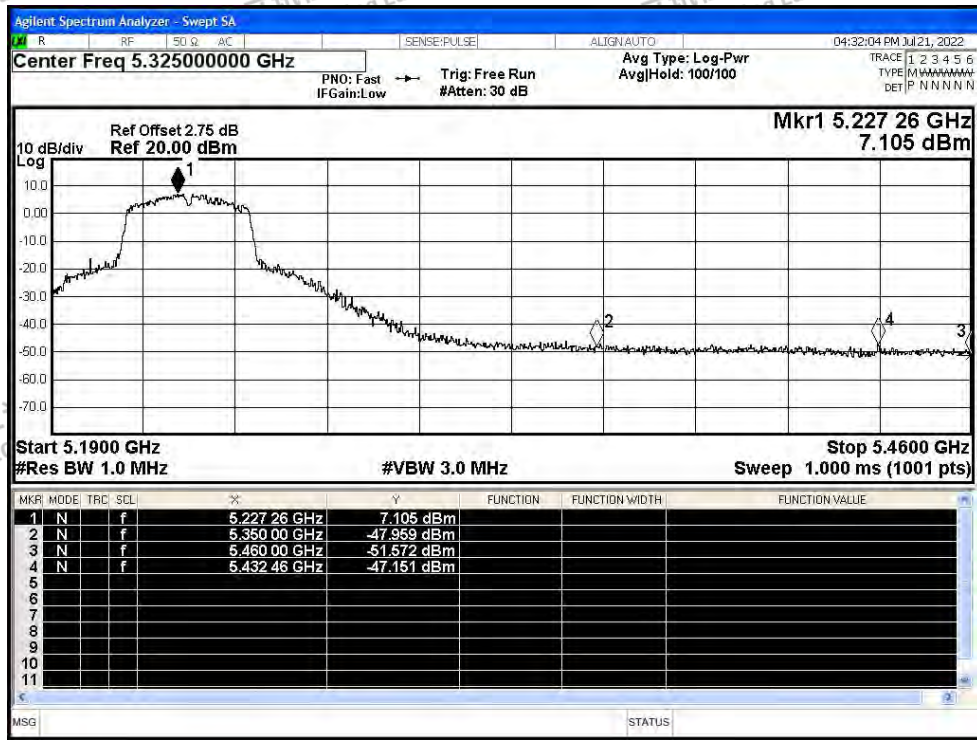


Restrict Band NVNT ac40-MIMO 5190MHz Average

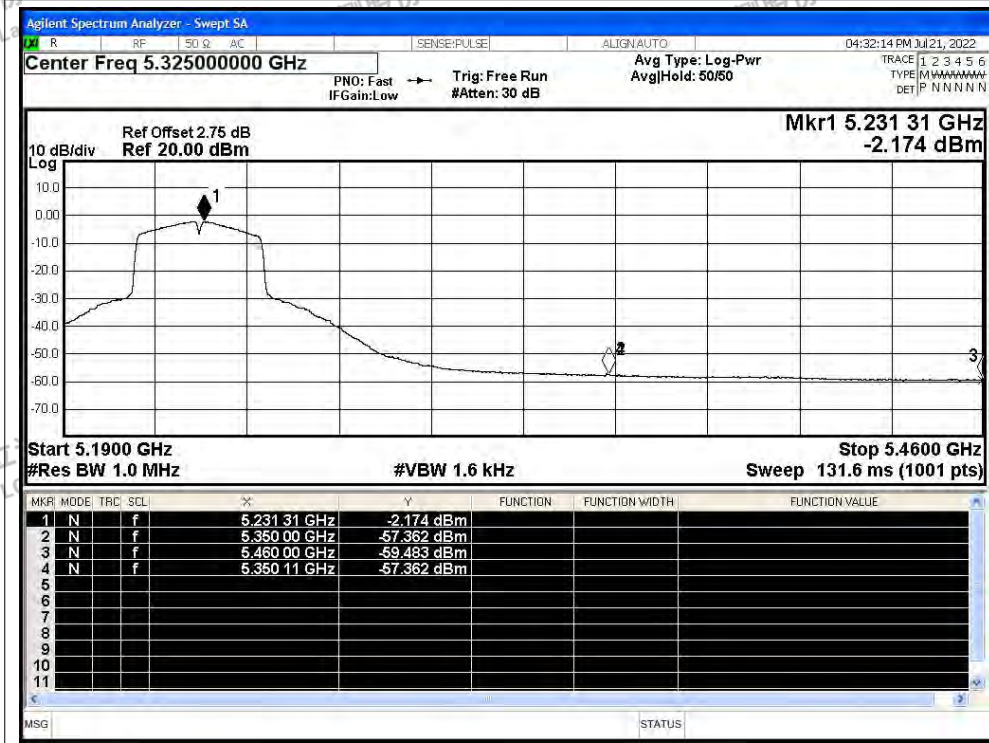




Restrict Band NVNT ac40-MIMO 5230MHz Peak

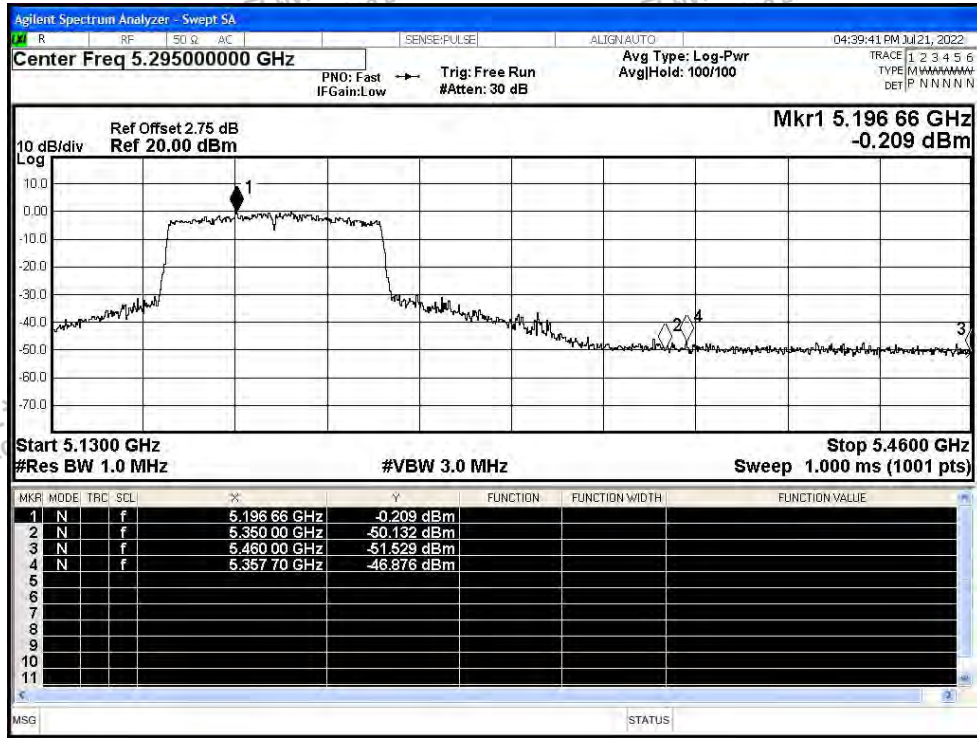


Restrict Band NVNT ac40-MIMO 5230MHz Average

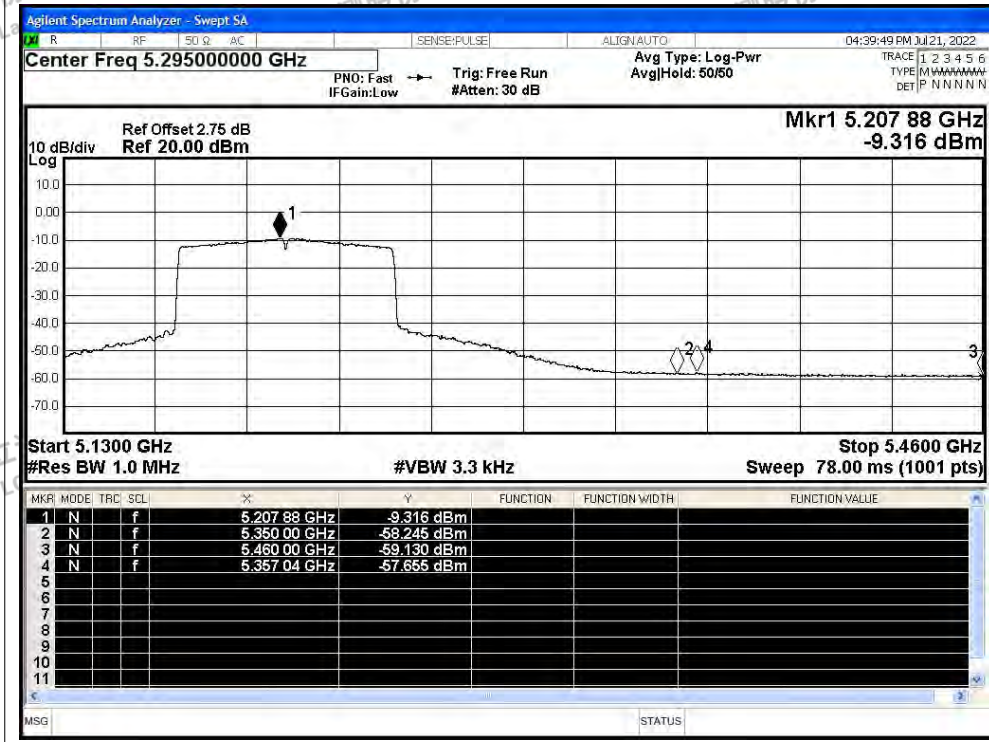




Restrict Band NVNT ac80-MIMO 5210MHz Peak

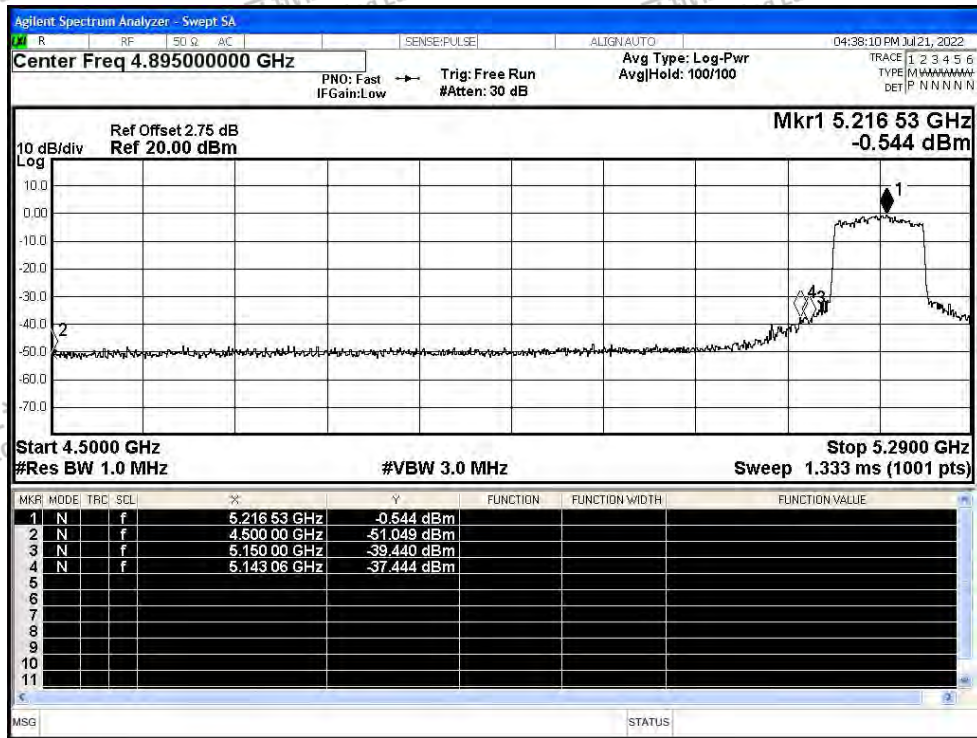


Restrict Band NVNT ac80-MIMO 5210MHz Average

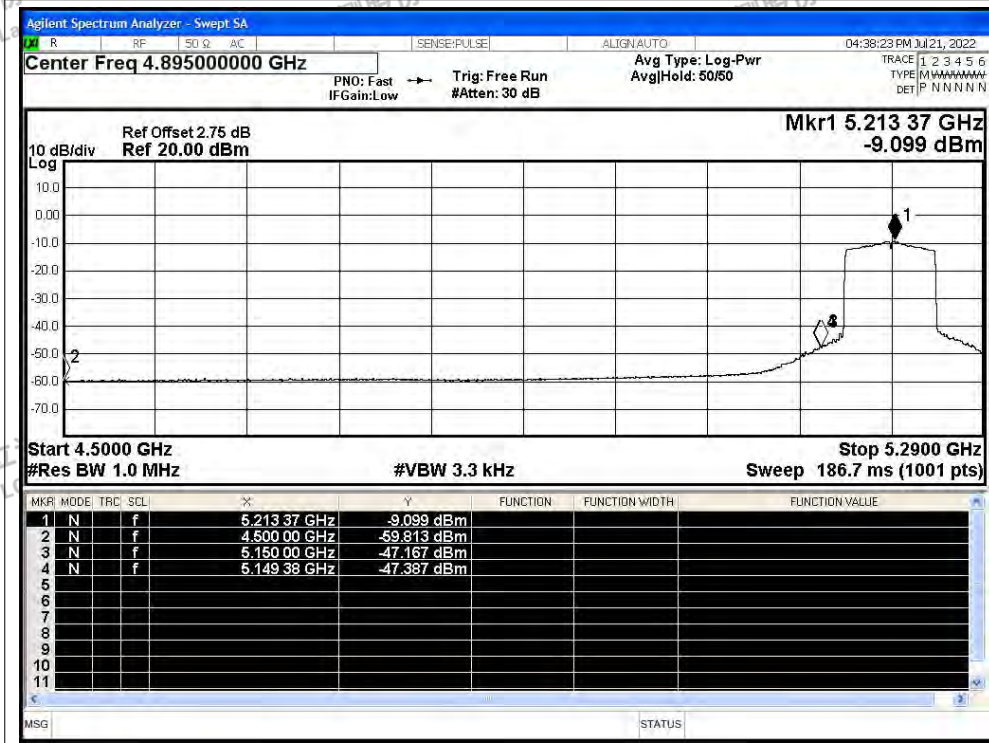




Restrict Band NVNT ac80-MIMO 5210MHz Peak



Restrict Band NVNT ac80-MIMO 5210MHz Average





D.5 Frequency Stability

Condition	Mode: MIMO	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	5200	0	0	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

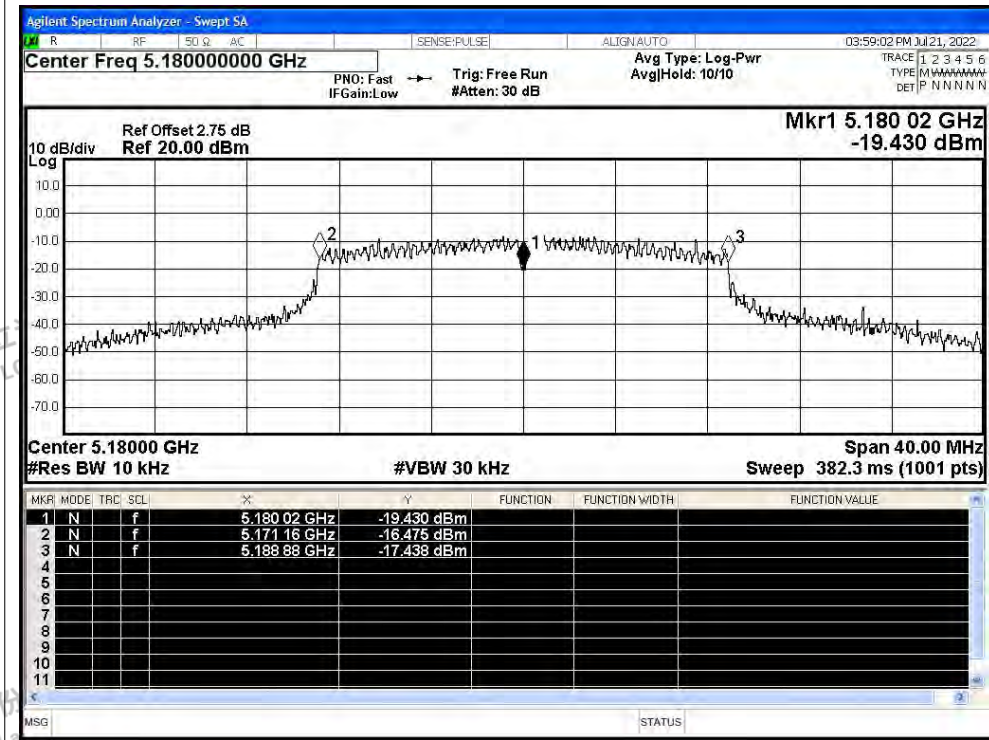
Condition	Mode: MIMO	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant2	5180.02	20000	3.86	25	Pass
NVNT	ac20	5200	Ant2	5200	0	0	25	Pass
NVNT	ac20	5240	Ant2	5240	0	0	25	Pass
NVNT	ac40	5190	Ant2	5190	0	0	25	Pass
NVNT	ac40	5230	Ant2	5230	0	0	25	Pass
NVNT	ac80	5210	Ant2	5210	0	0	25	Pass



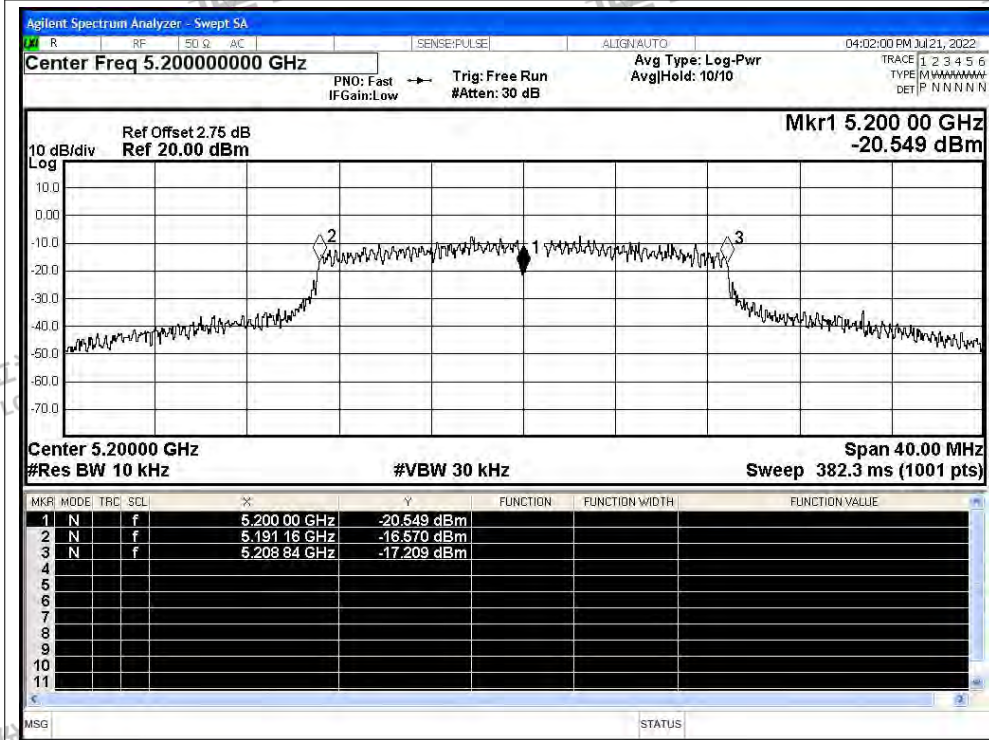


ANT1:

Freq. Stability NVNT ac20 5180MHz Ant1

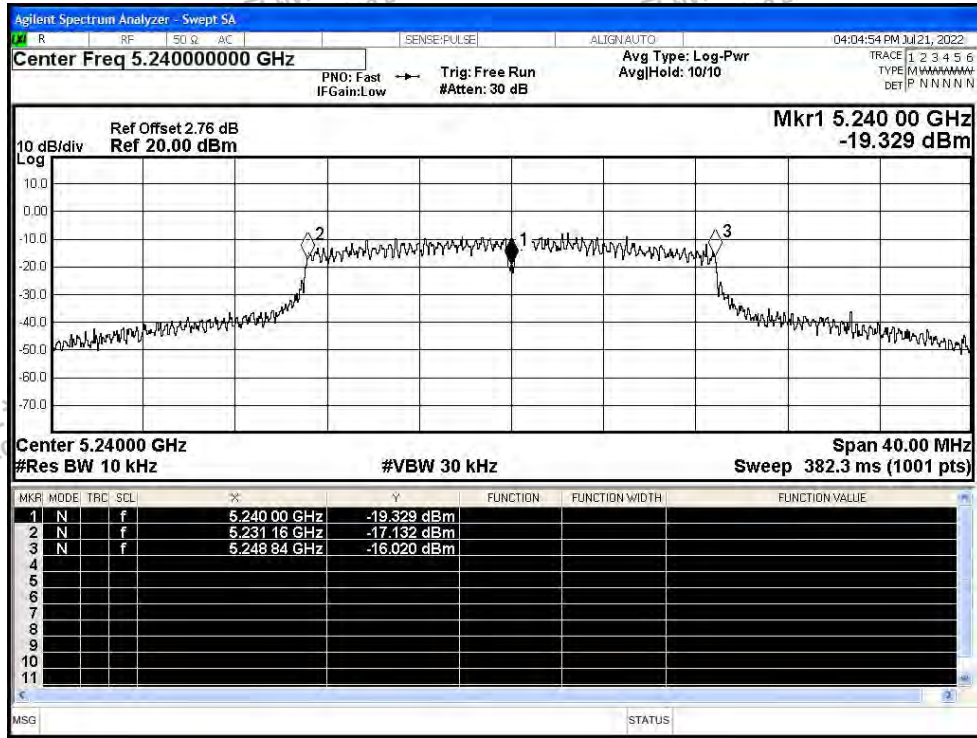


Freq. Stability NVNT ac20 5200MHz Ant1

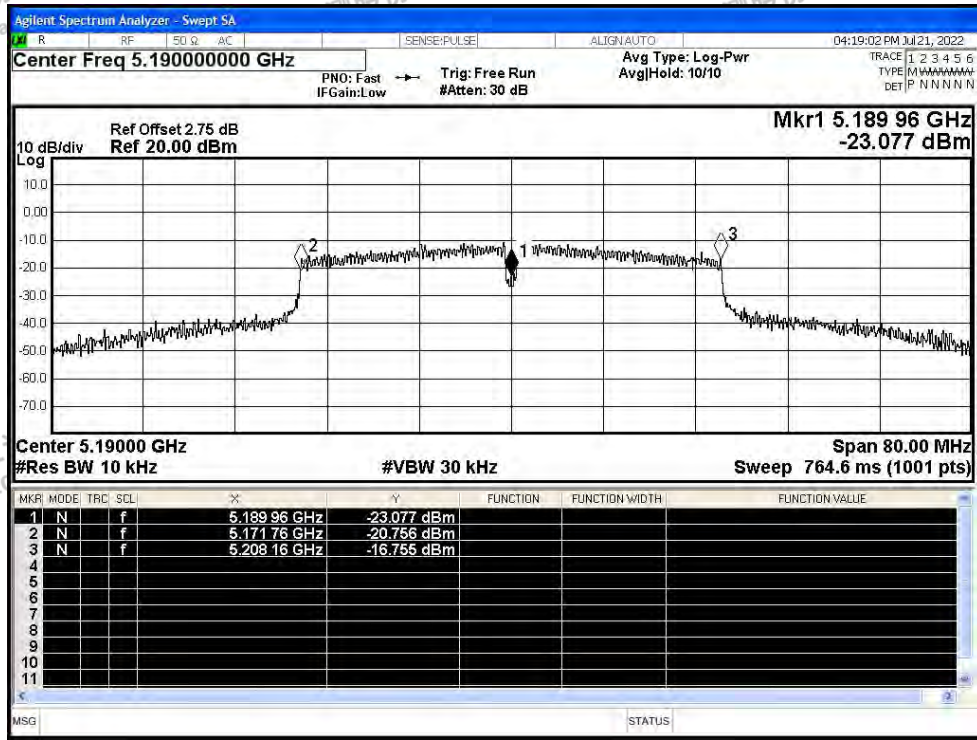




Freq. Stability NVNT ac20 5240MHz Ant1

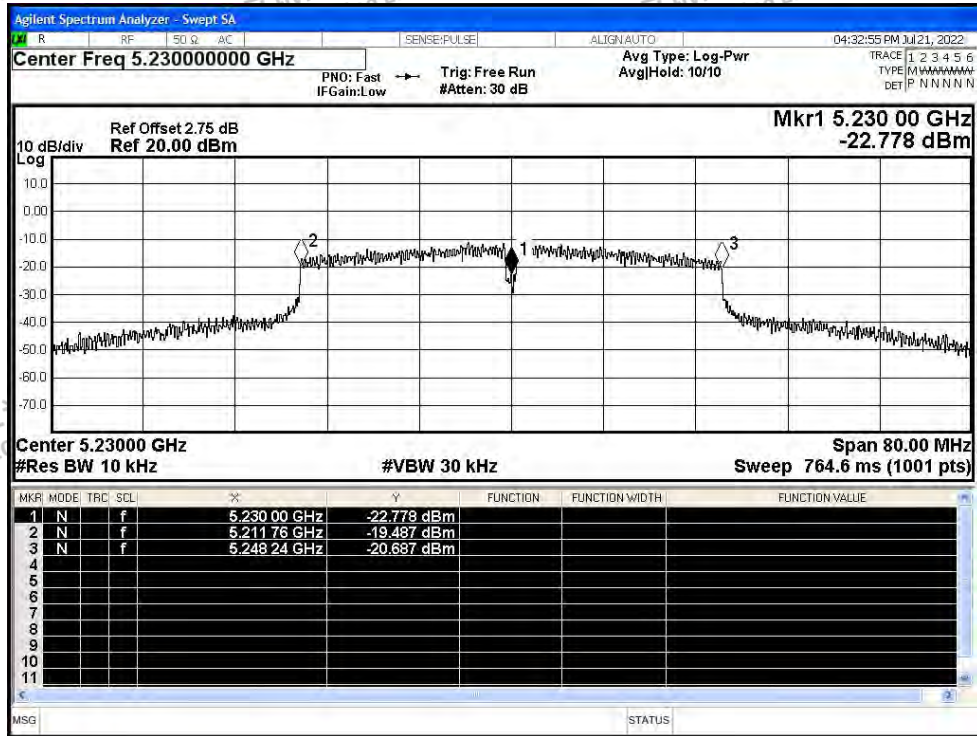


Freq. Stability NVNT ac40 5190MHz Ant1

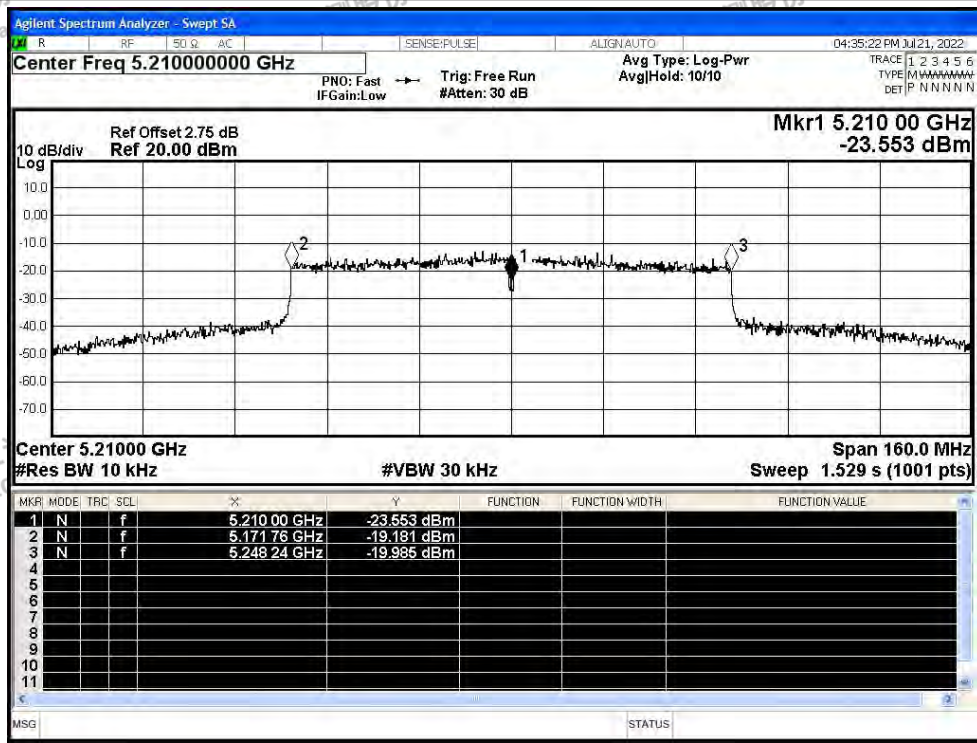




Freq. Stability NVNT ac40 5230MHz Ant1



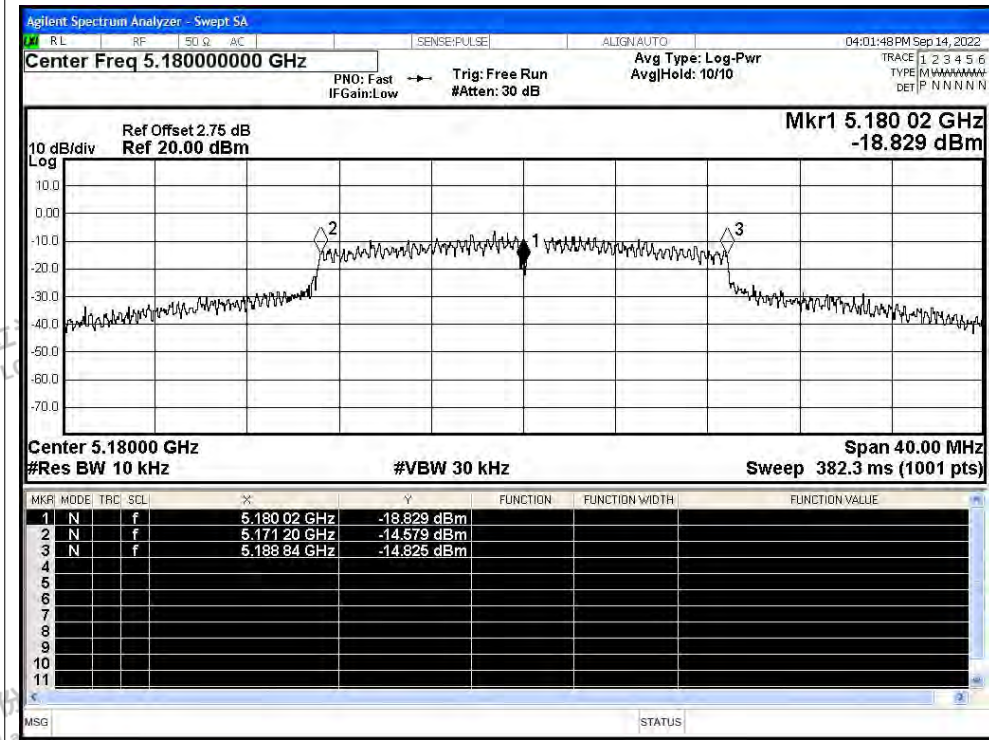
Freq. Stability NVNT ac80 5210MHz Ant1



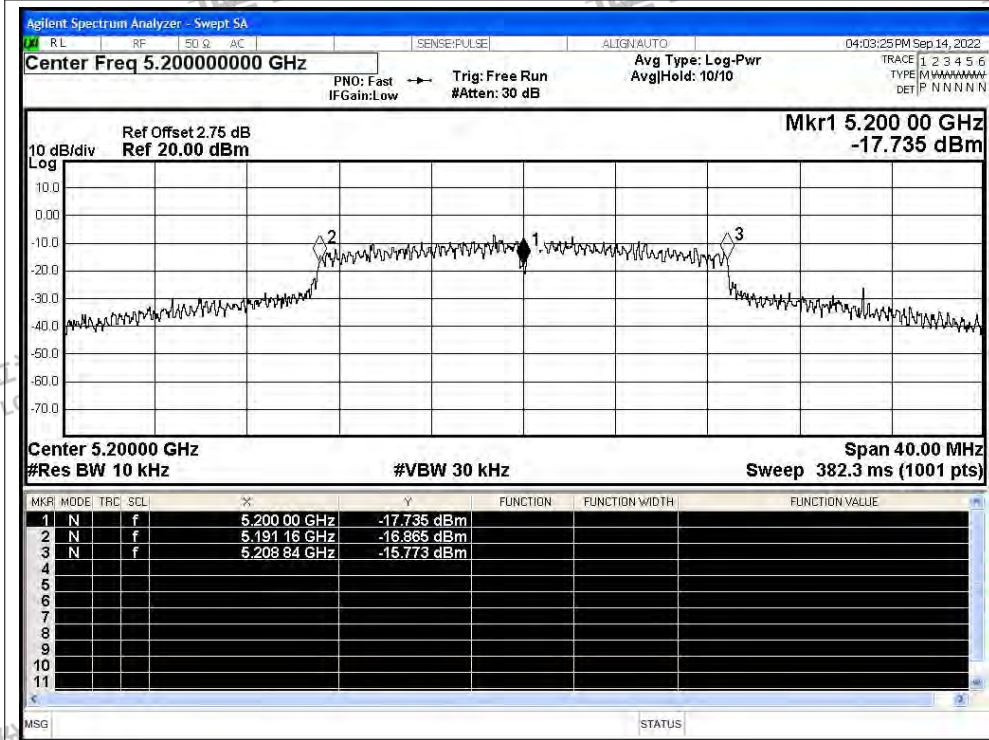


ANT2:

Freq. Stability NVNT ac20 5180MHz Ant2

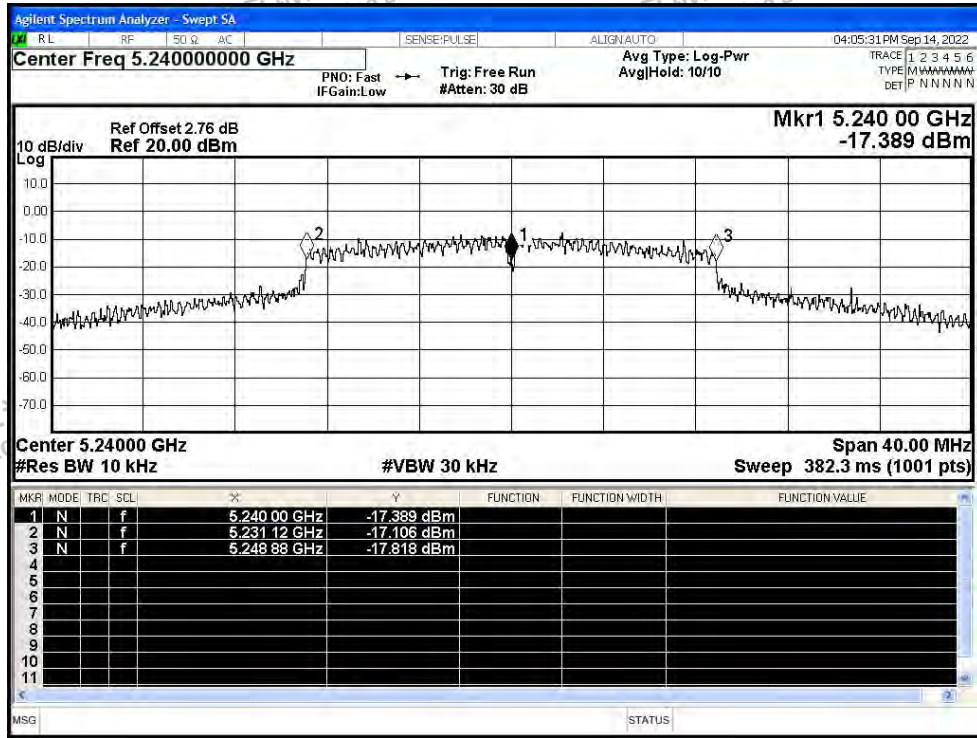


Freq. Stability NVNT ac20 5200MHz Ant2

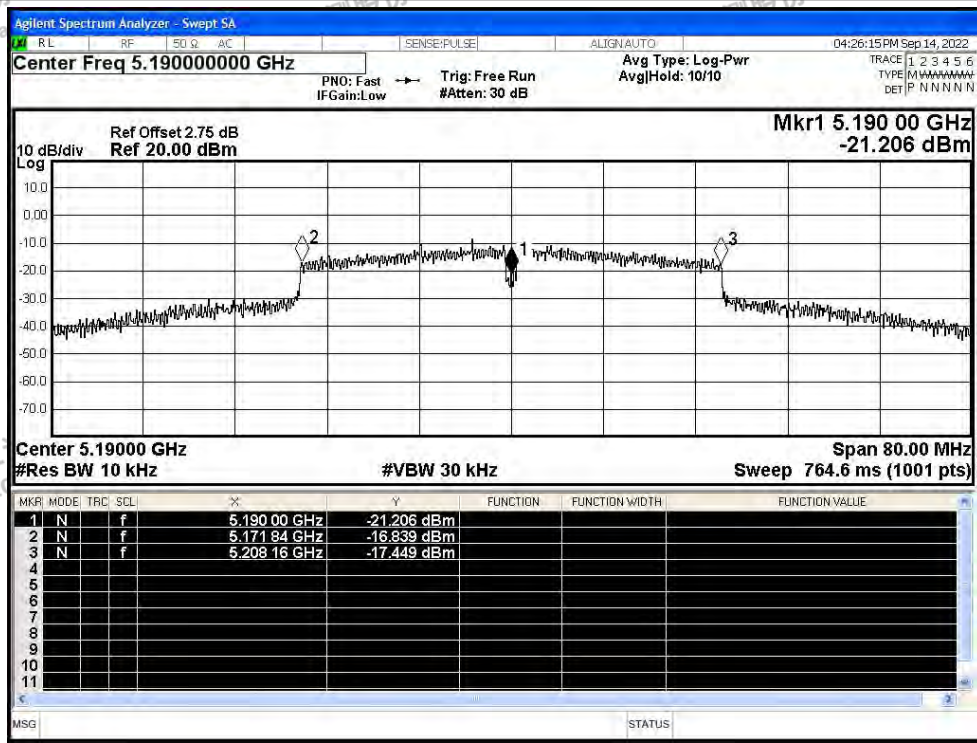




Freq. Stability NVNT ac20 5240MHz Ant2

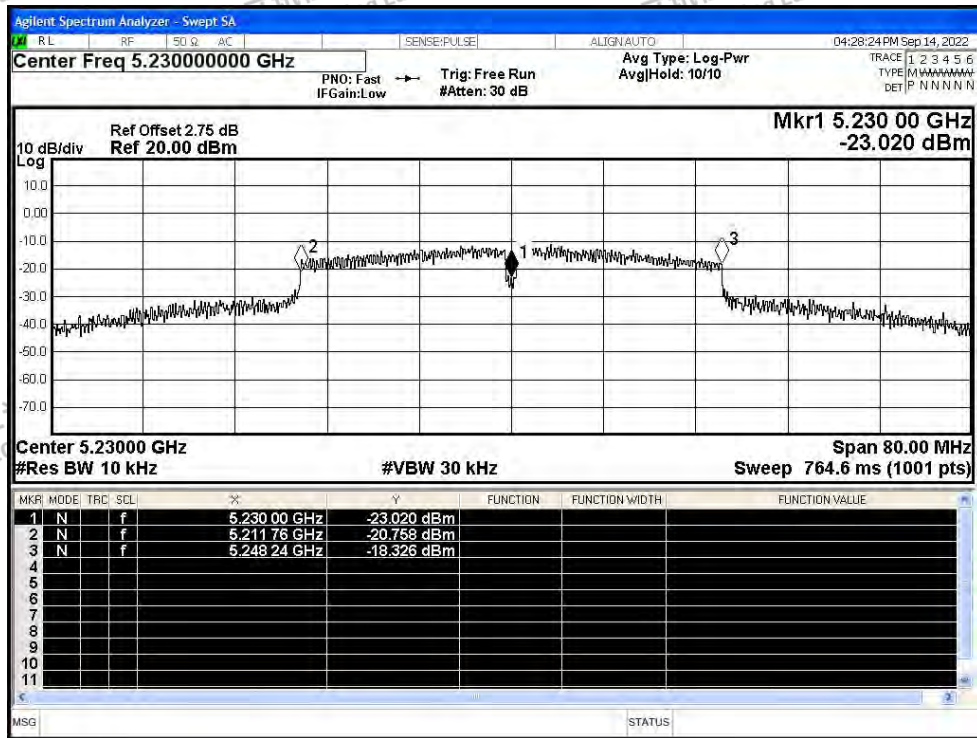


Freq. Stability NVNT ac40 5190MHz Ant2

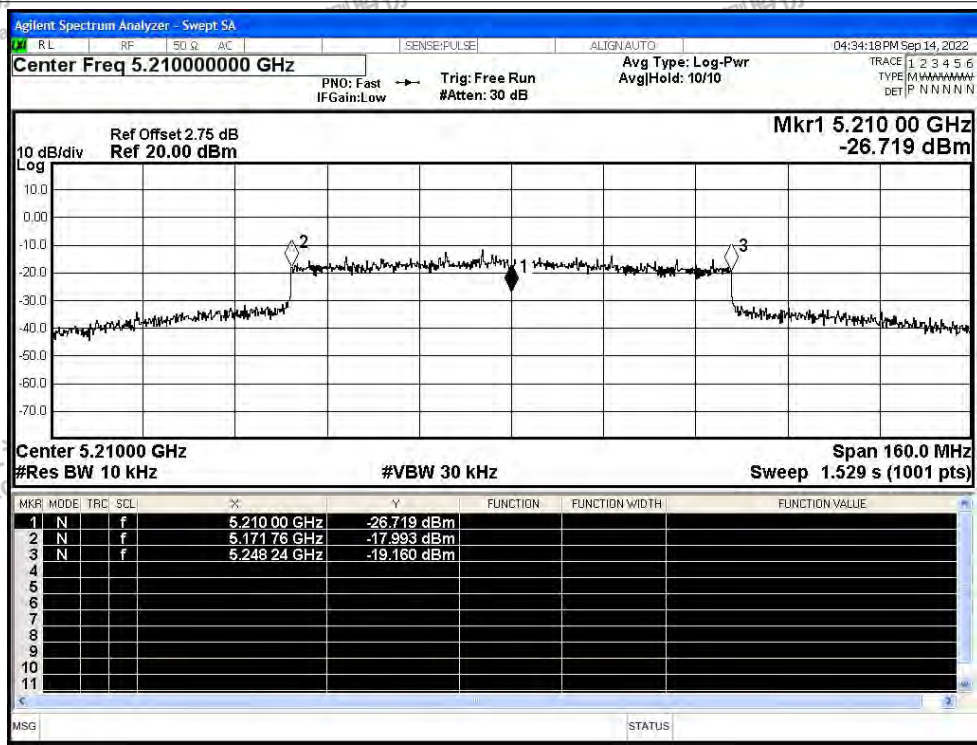




Freq. Stability NVNT ac40 5230MHz Ant2



Freq. Stability NVNT ac80 5210MHz Ant2





D.6 Duty Cycle

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.48	0.11	0.72
NVNT	a	5200	Ant1	97.55	0.11	0.72
NVNT	a	5240	Ant1	97.48	0.11	0.72
NVNT	n20	5180	Ant1	97.31	0.12	0.77
NVNT	n20	5200	Ant1	97.31	0.12	0.77
NVNT	n20	5240	Ant1	97.31	0.12	0.77
NVNT	n40	5190	Ant1	94.88	0.23	1.54
NVNT	n40	5230	Ant1	95.03	0.22	1.54
NVNT	ac20	5180	Ant1	97.33	0.12	0.76
NVNT	ac20	5200	Ant1	97.33	0.12	0.76
NVNT	ac20	5240	Ant1	97.4	0.11	0.76
NVNT	ac40	5190	Ant1	95.06	0.22	1.53
NVNT	ac40	5230	Ant1	94.91	0.23	1.53
NVNT	ac80	5210	Ant1	90.56	0.43	3.07

Condition	Mode: MIMO	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant2	97.48	0.11	0.72
NVNT	a	5200	Ant2	97.48	0.11	0.72
NVNT	a	5240	Ant2	97.55	0.11	0.72
NVNT	n20	5180	Ant2	97.38	0.12	0.77
NVNT	n20	5200	Ant2	97.31	0.12	0.77
NVNT	n20	5240	Ant2	97.38	0.12	0.77
NVNT	n40	5190	Ant2	94.88	0.23	1.54
NVNT	n40	5230	Ant2	94.88	0.23	1.54
NVNT	ac20	5180	Ant2	97.31	0.12	0.77
NVNT	ac20	5200	Ant2	97.38	0.12	0.77
NVNT	ac20	5240	Ant2	97.38	0.12	0.77
NVNT	ac40	5190	Ant2	94.91	0.23	1.53
NVNT	ac40	5230	Ant2	95.06	0.22	1.53
NVNT	ac80	5210	Ant2	90.56	0.43	3.07



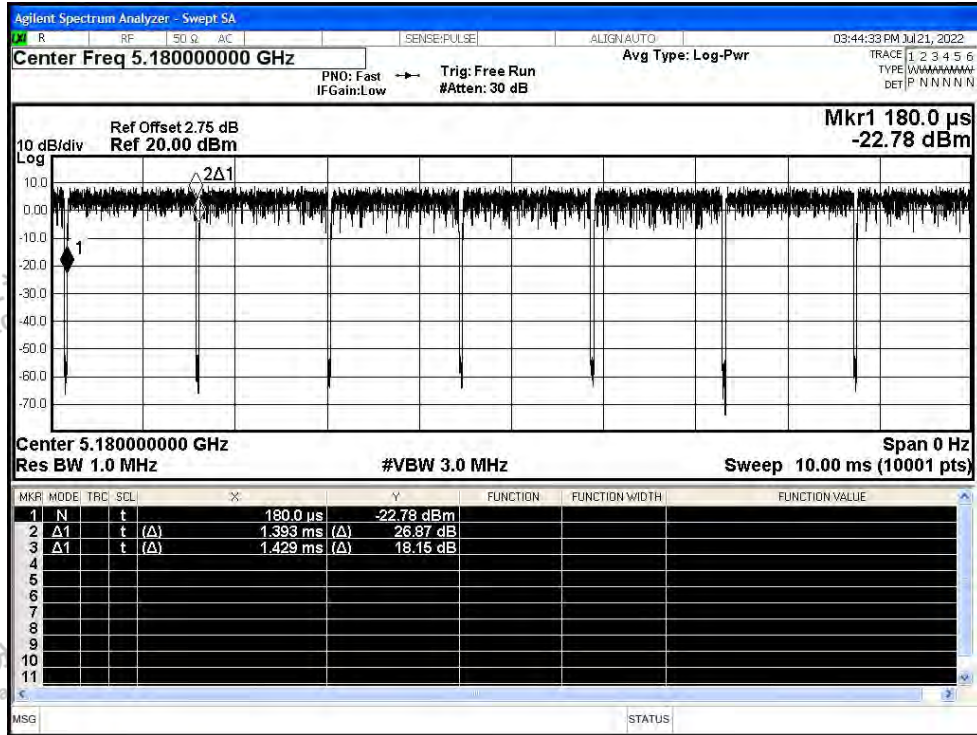
Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



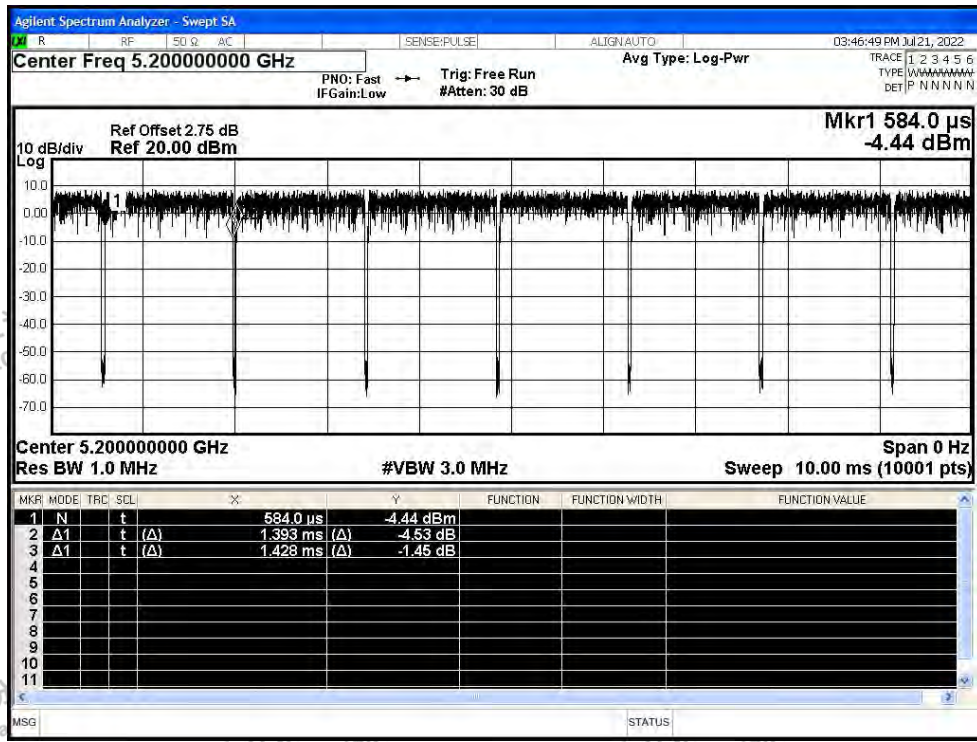
ANT1:

Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

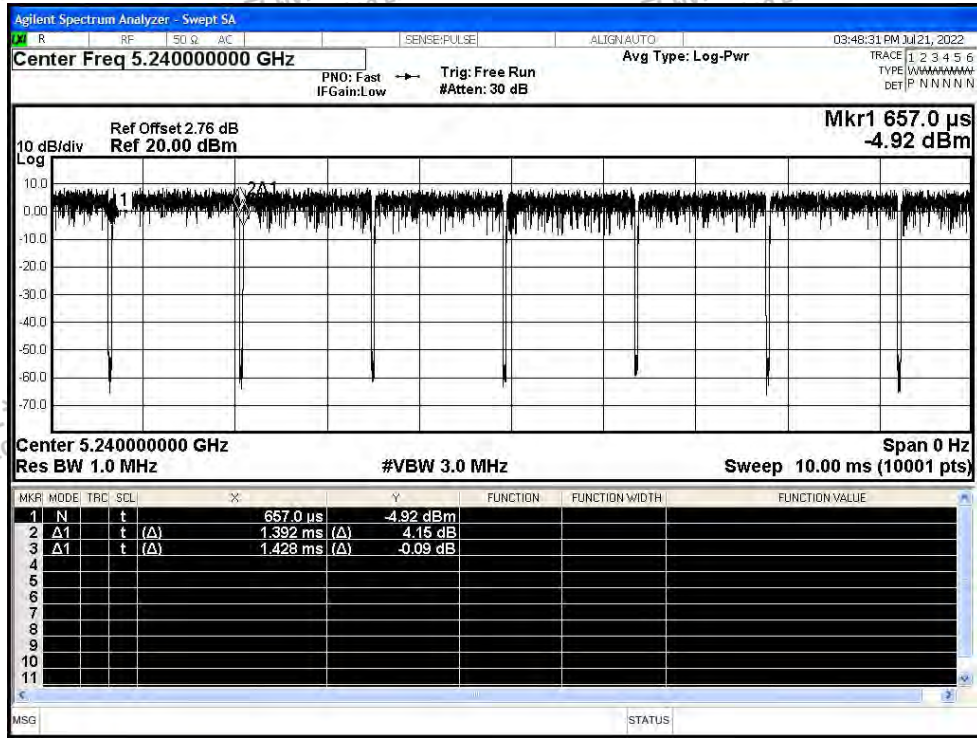


Duty Cycle NVNT a 5200MHz Ant1

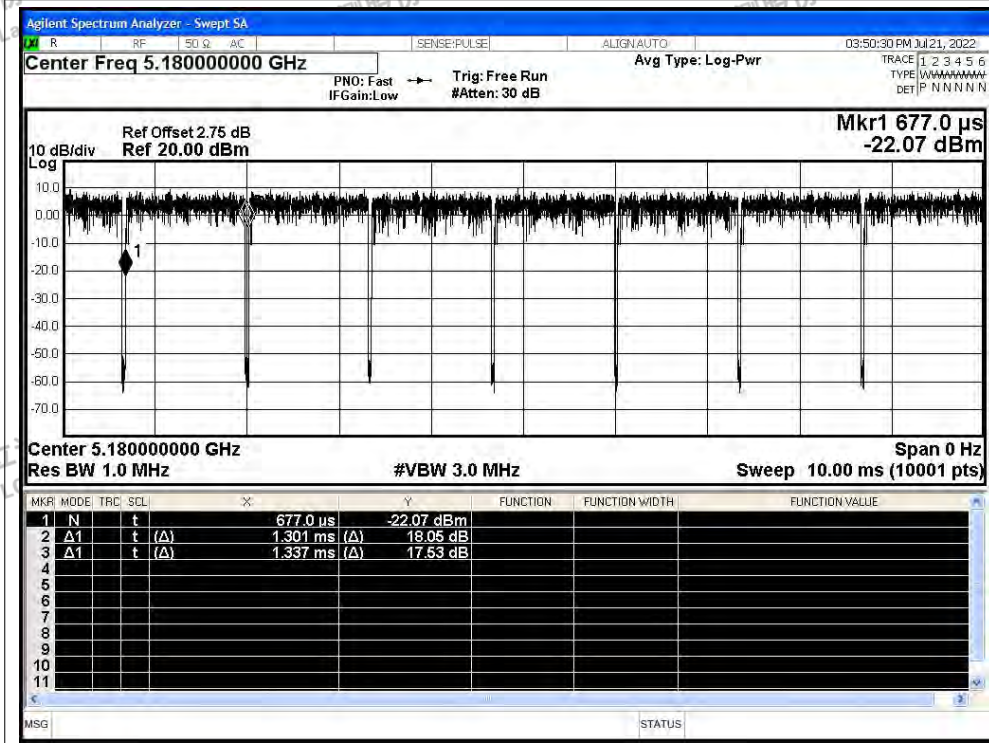




Duty Cycle NVNT a 5240MHz Ant1

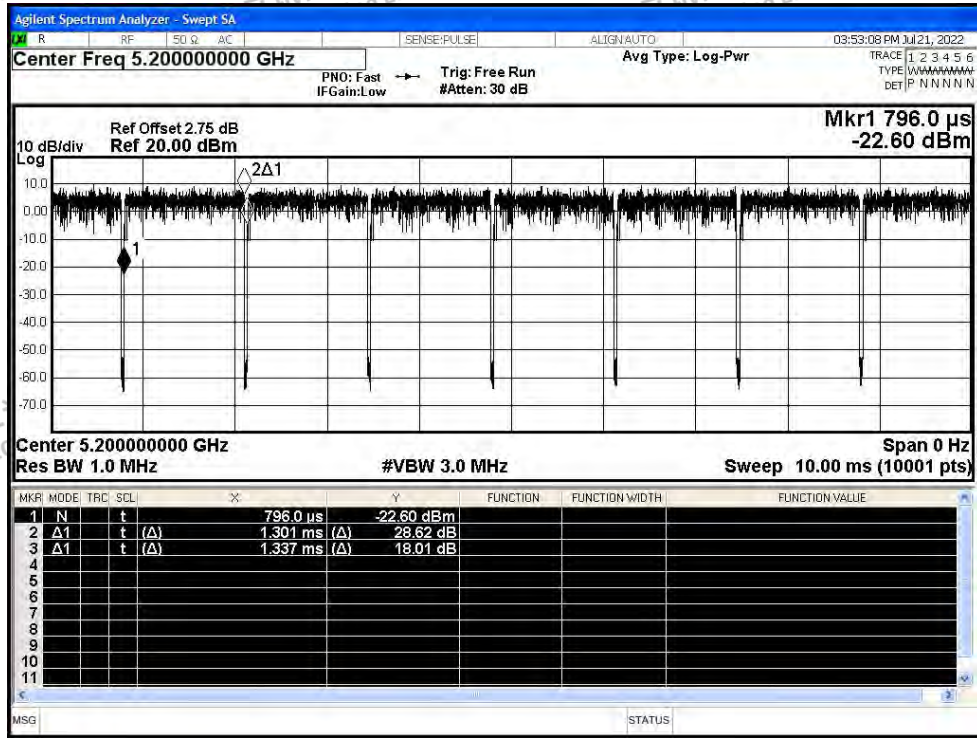


Duty Cycle NVNT n20 5180MHz Ant1

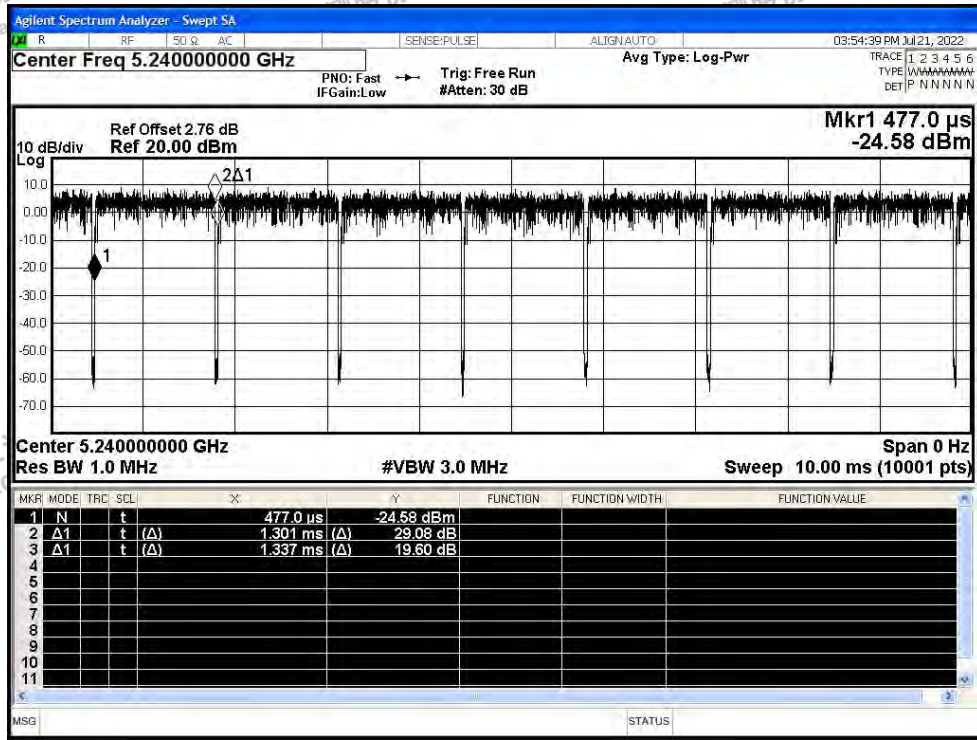




Duty Cycle NVNT n20 5200MHz Ant1

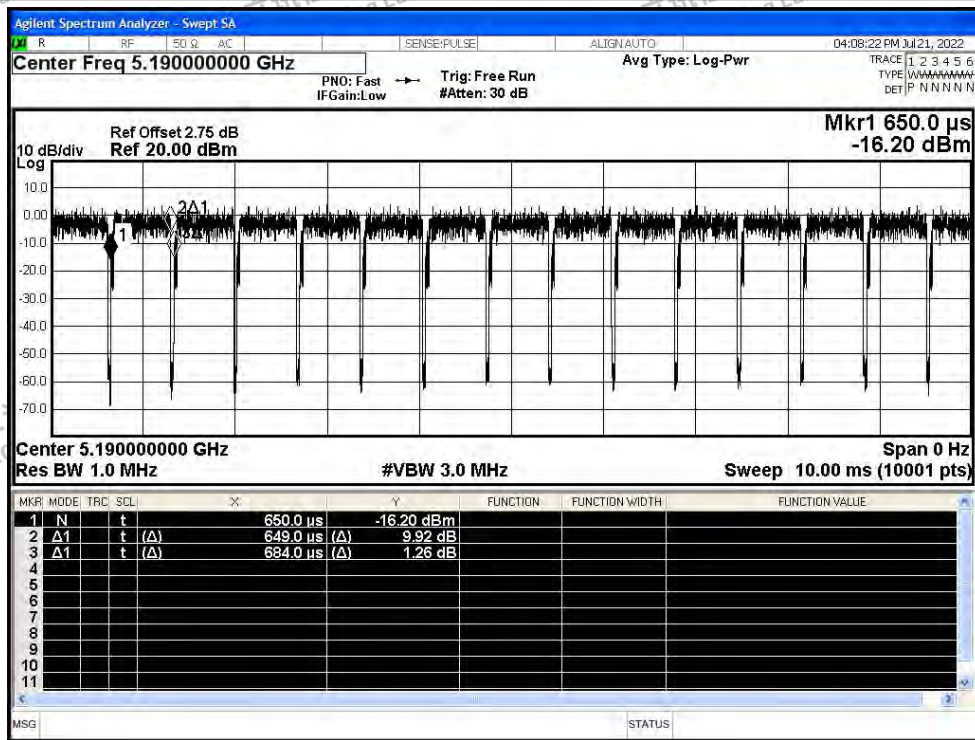


Duty Cycle NVNT n20 5240MHz Ant1

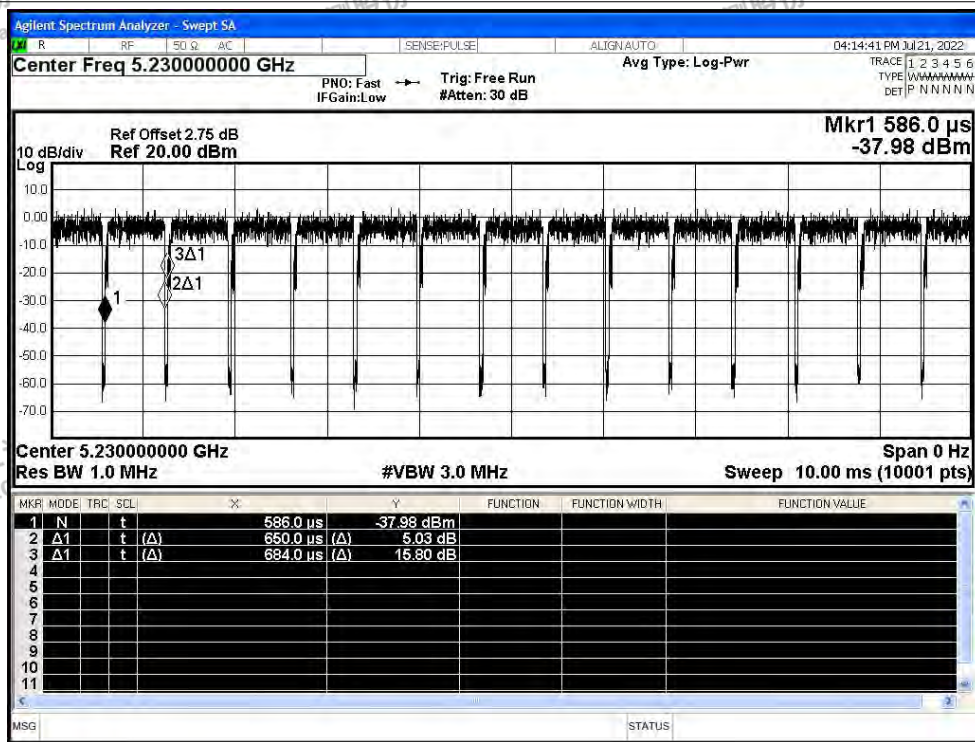




Duty Cycle NVNT n40 5190MHz Ant1

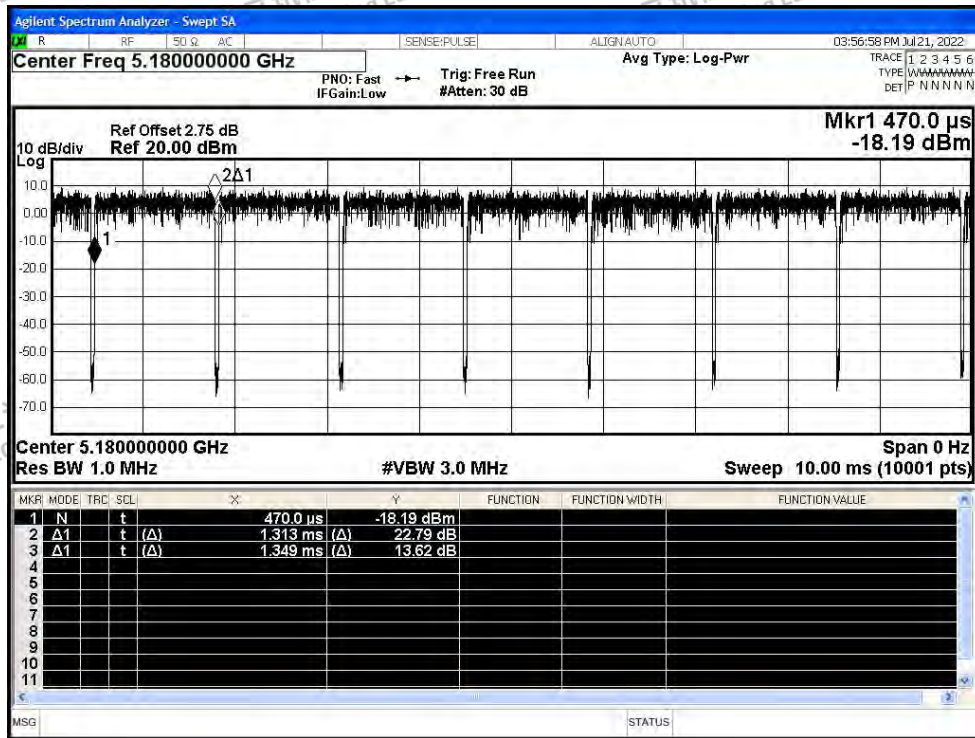


Duty Cycle NVNT n40 5230MHz Ant1

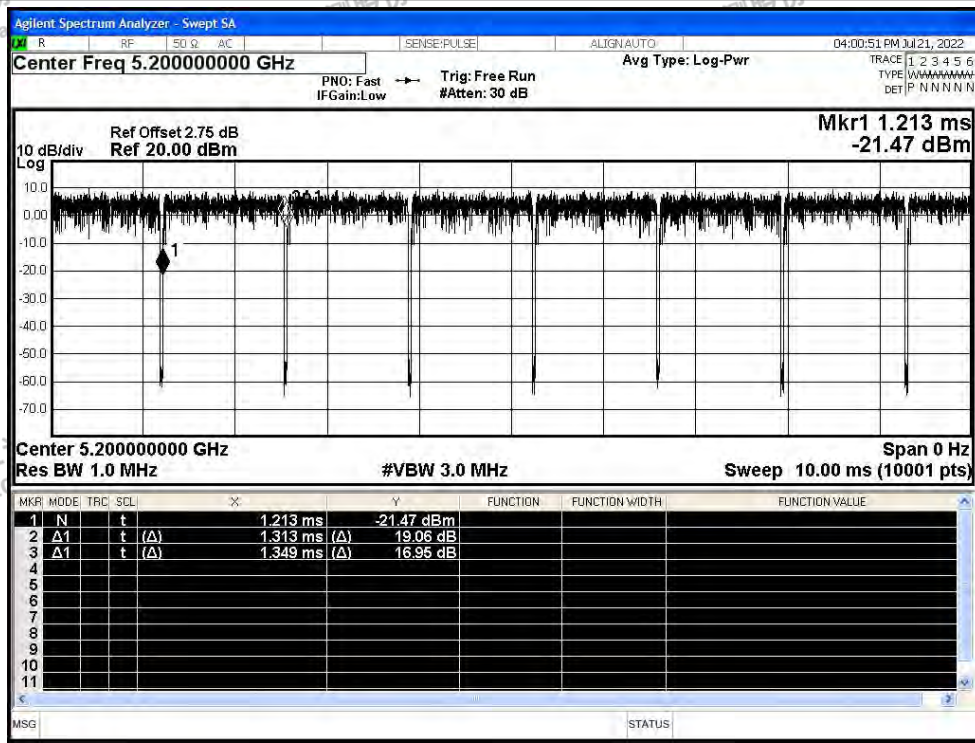




Duty Cycle NVNT ac20 5180MHz Ant1

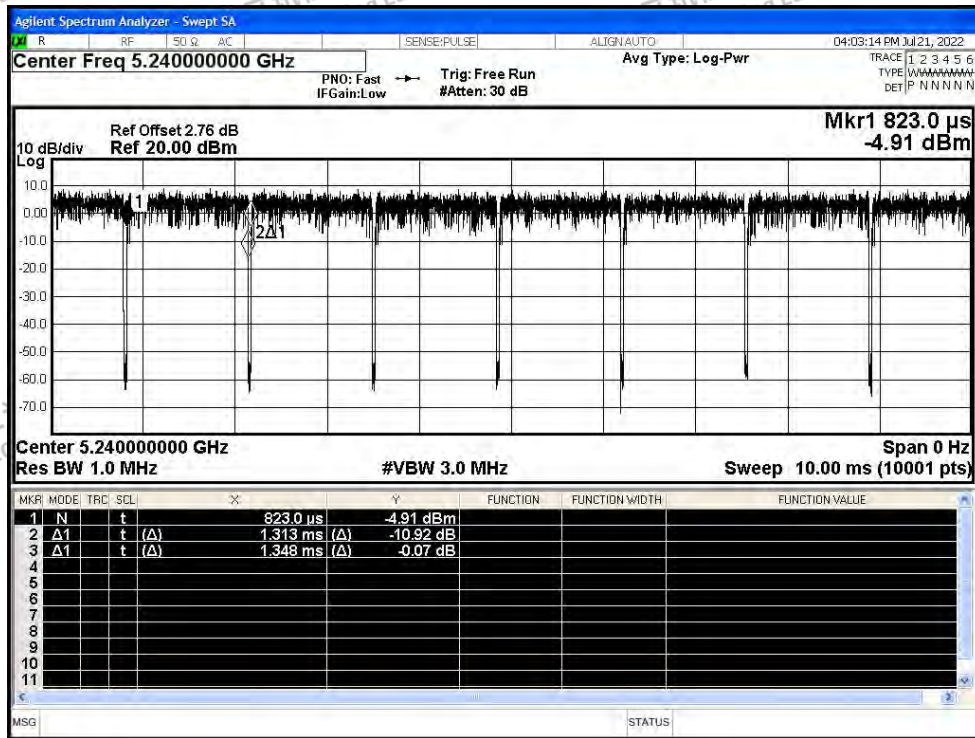


Duty Cycle NVNT ac20 5200MHz Ant1

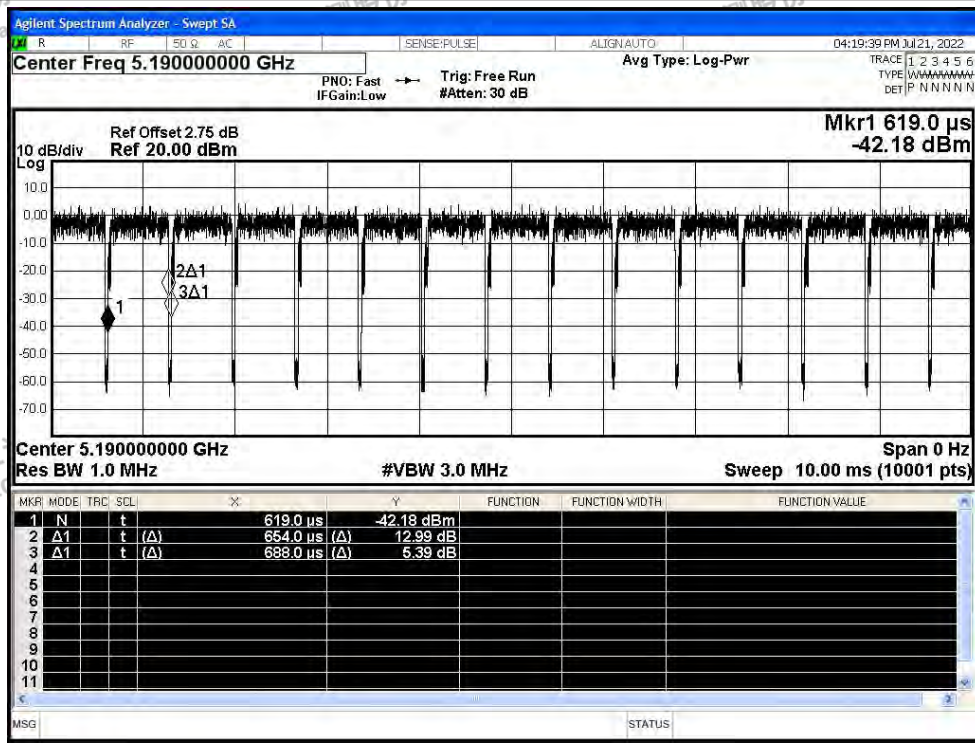




Duty Cycle NVNT ac20 5240MHz Ant1

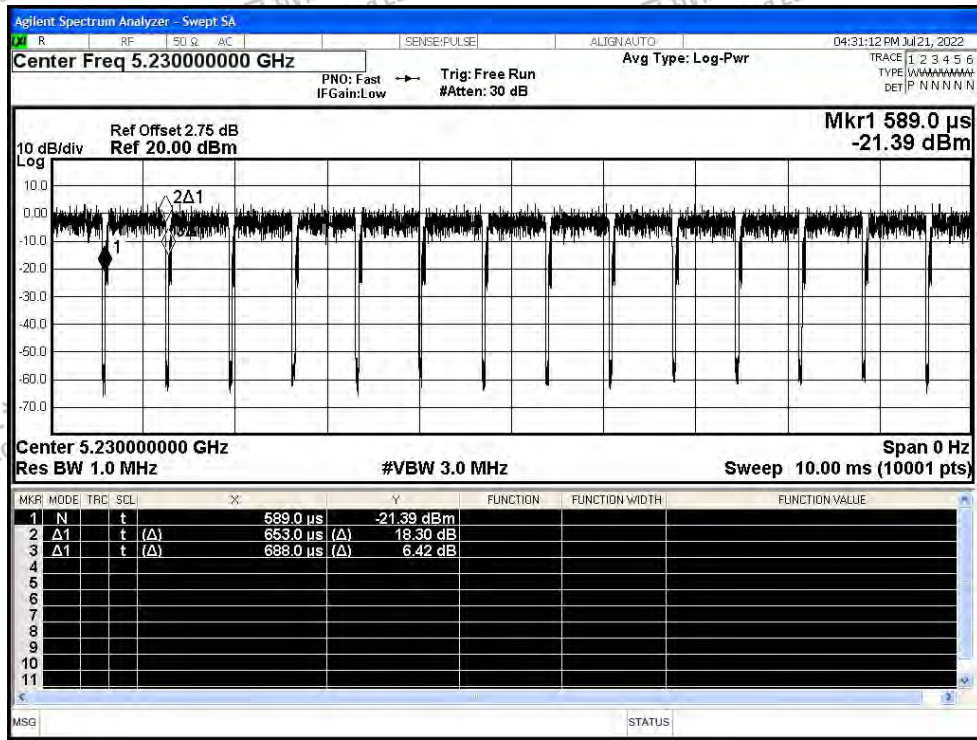


Duty Cycle NVNT ac40 5190MHz Ant1

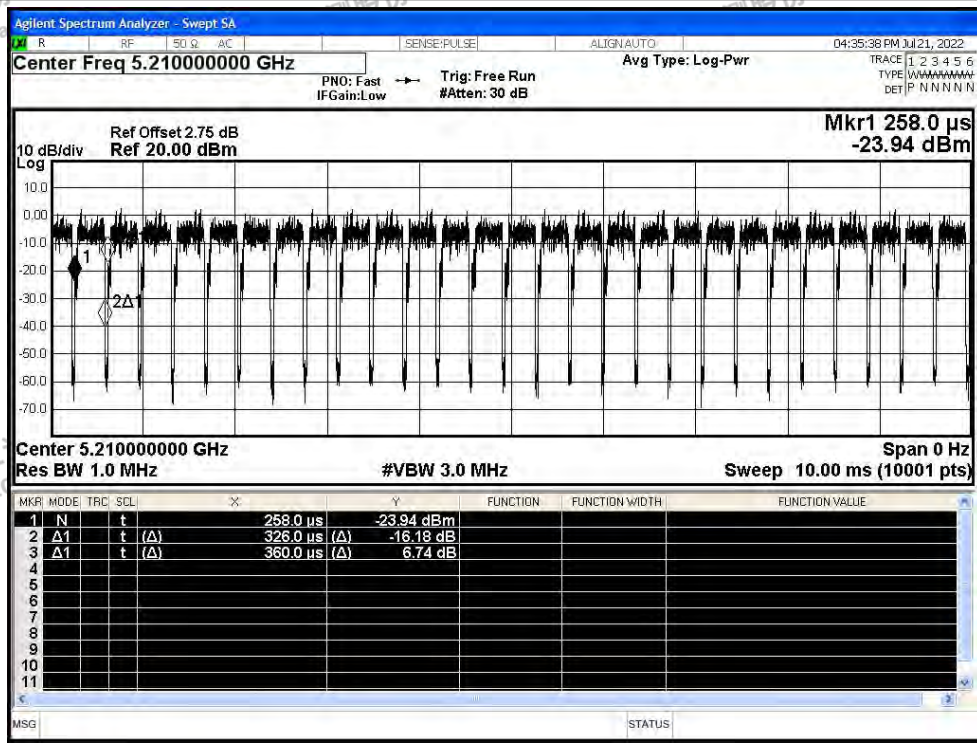




Duty Cycle NVNT ac40 5230MHz Ant1

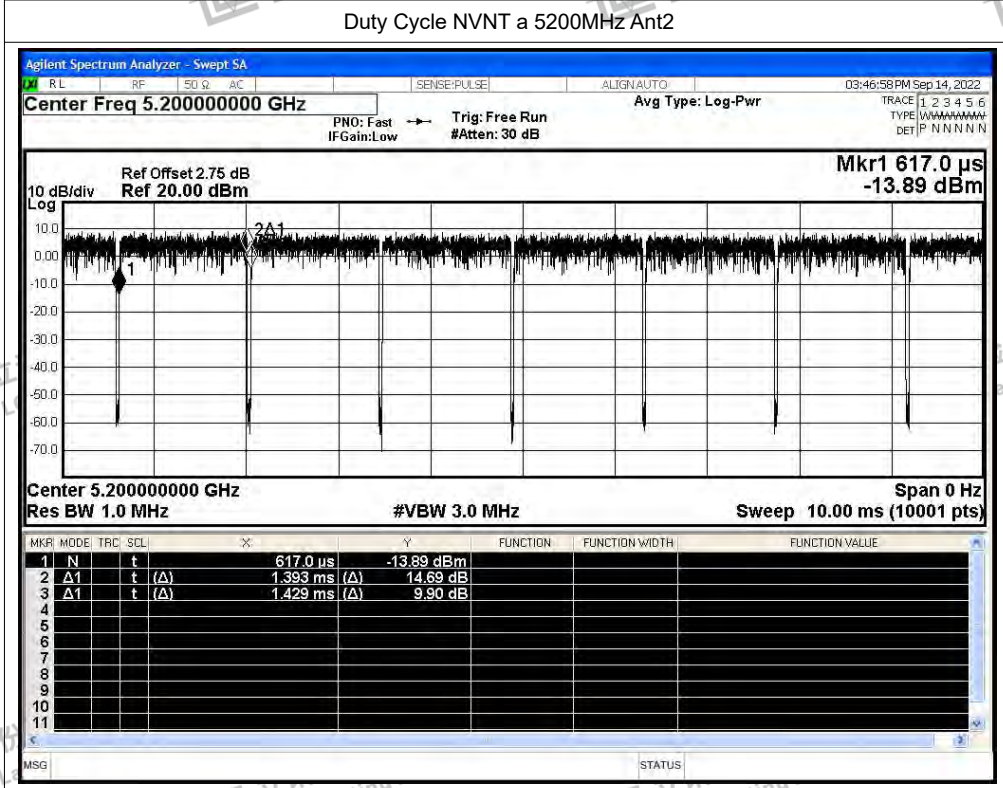
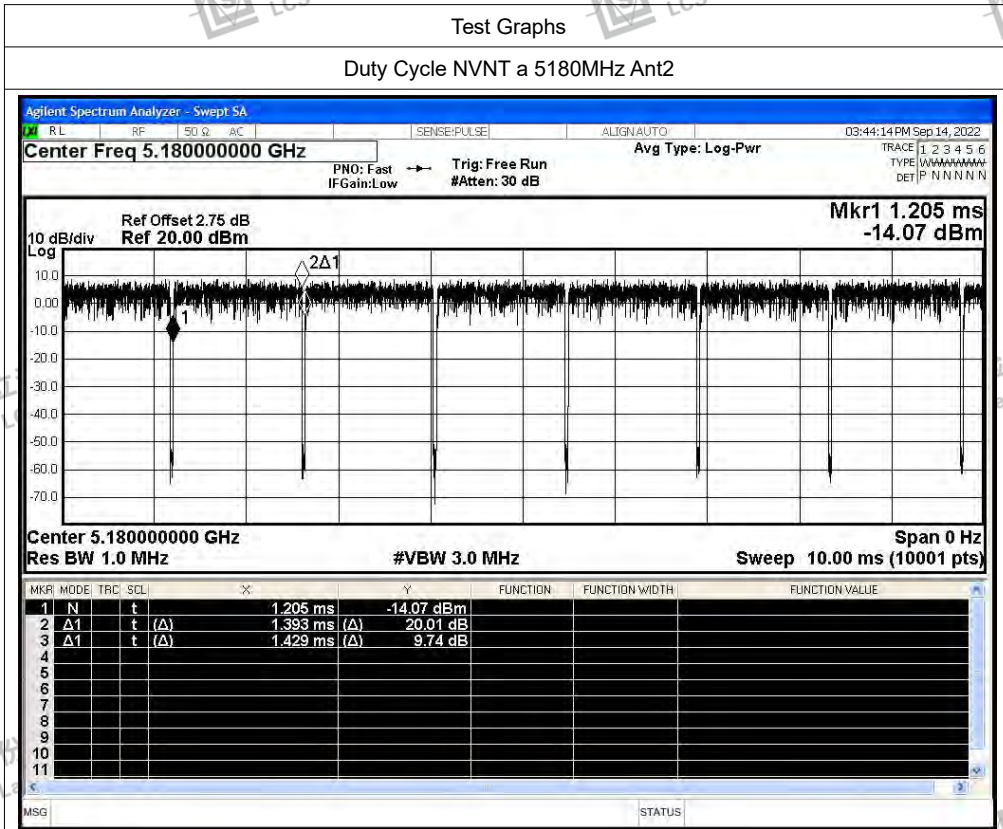


Duty Cycle NVNT ac80 5210MHz Ant1



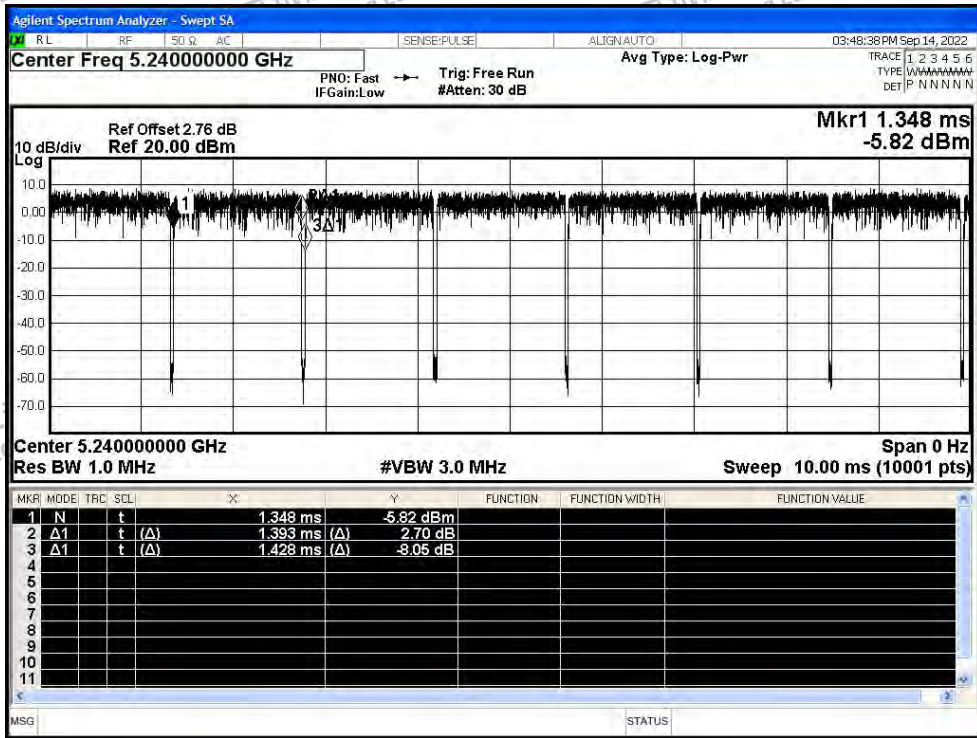


ANT2:

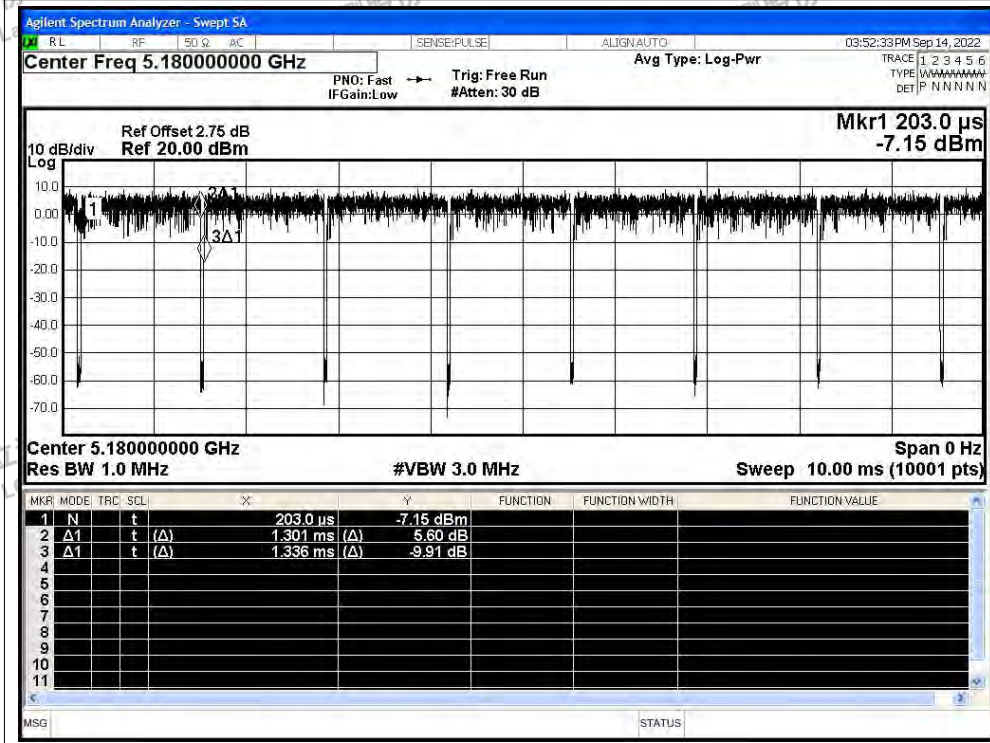




Duty Cycle NVNT a 5240MHz Ant2

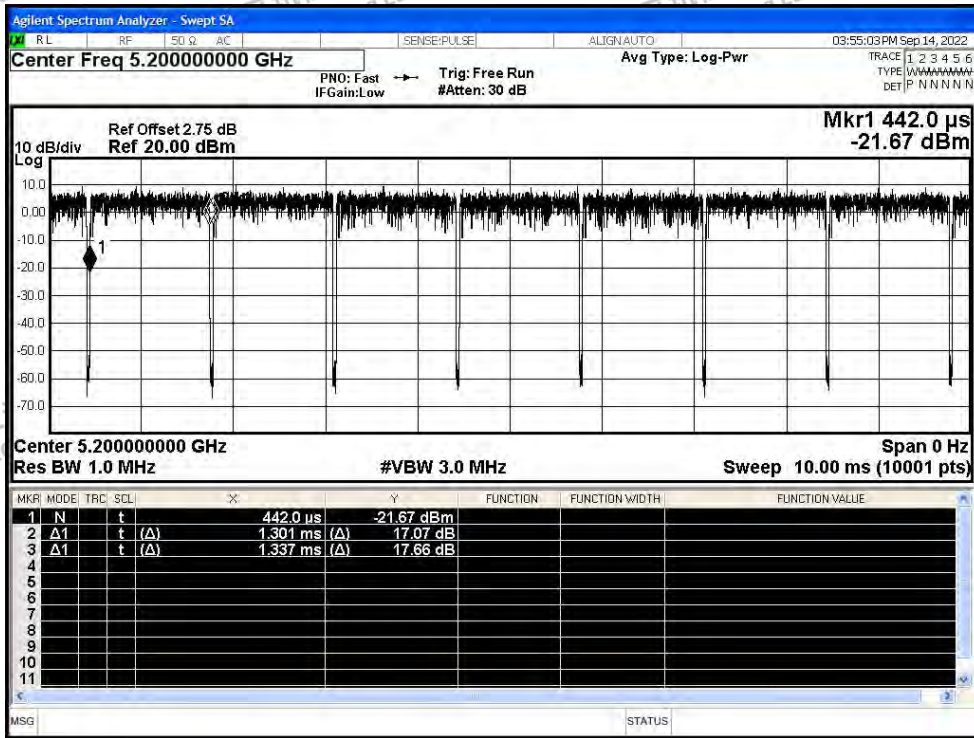


Duty Cycle NVNT n20 5180MHz Ant2

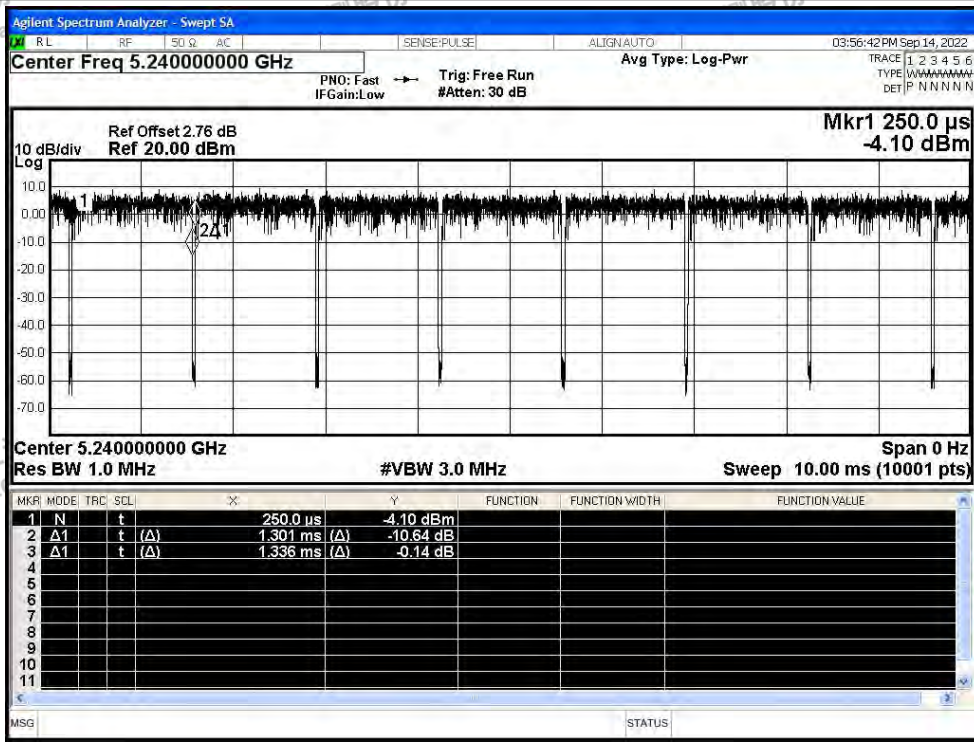




Duty Cycle NVNT n20 5200MHz Ant2

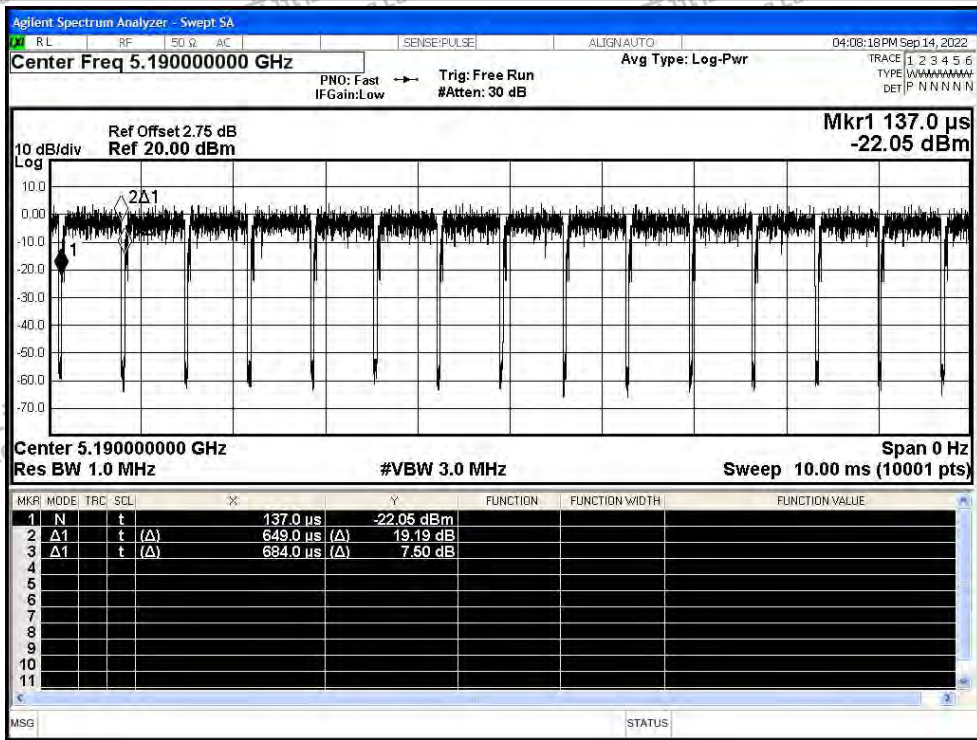


Duty Cycle NVNT n20 5240MHz Ant2

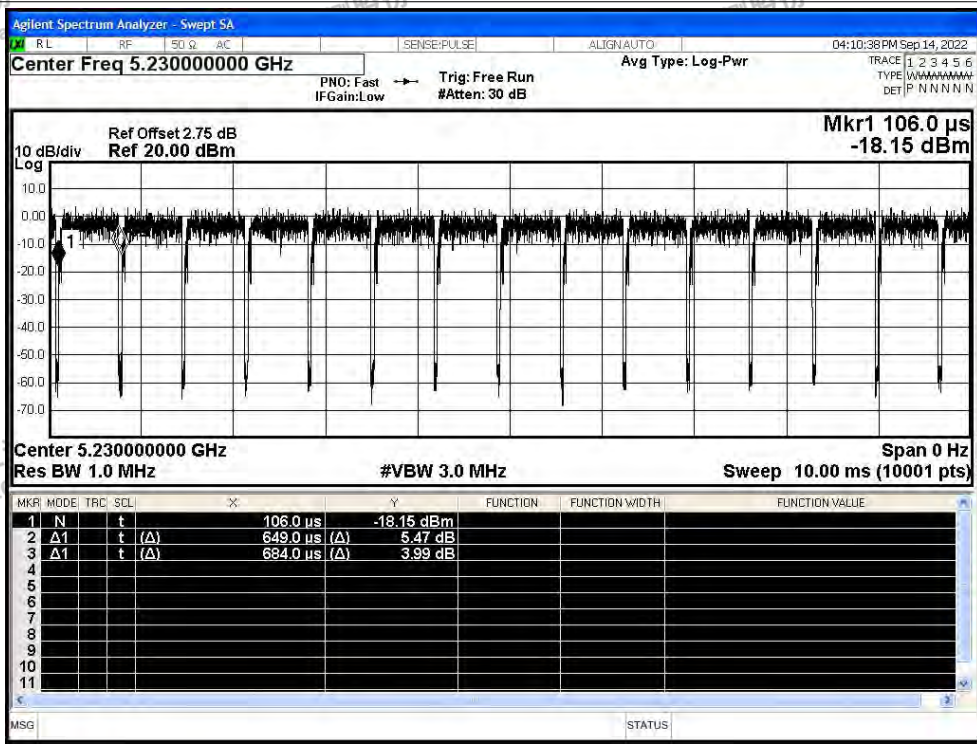




Duty Cycle NVNT n40 5190MHz Ant2

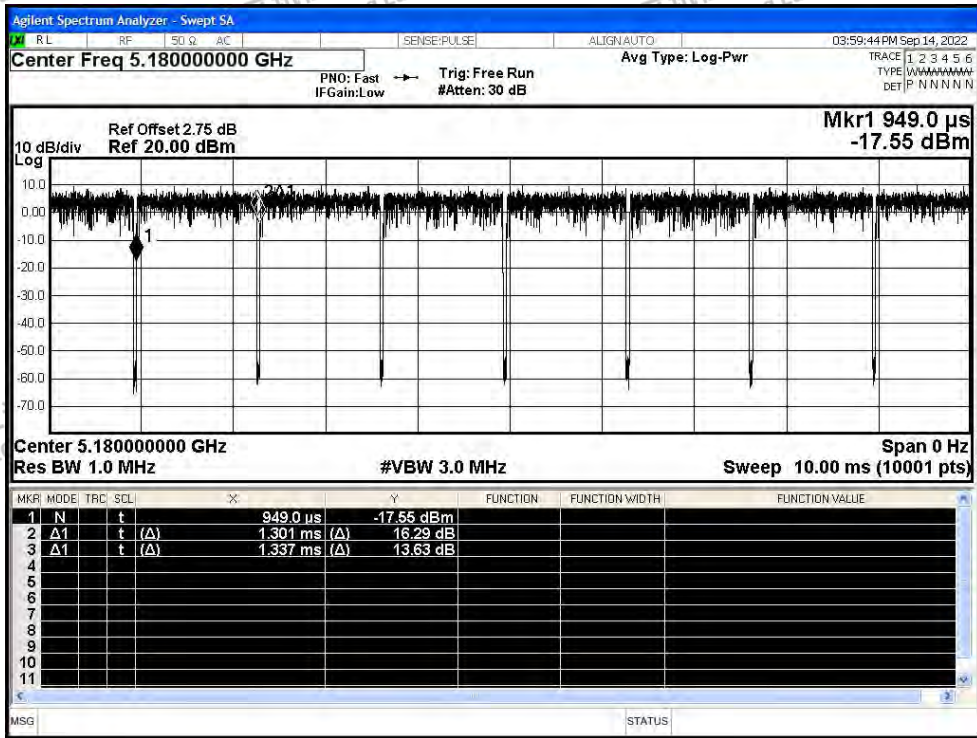


Duty Cycle NVNT n40 5230MHz Ant2

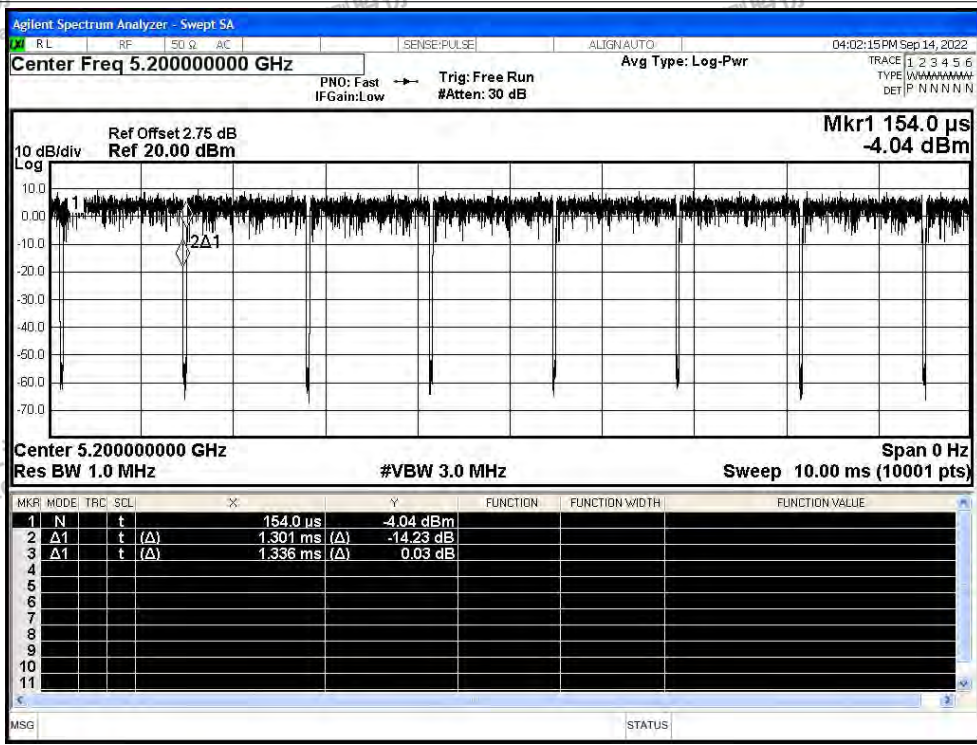




Duty Cycle NVNT ac20 5180MHz Ant2

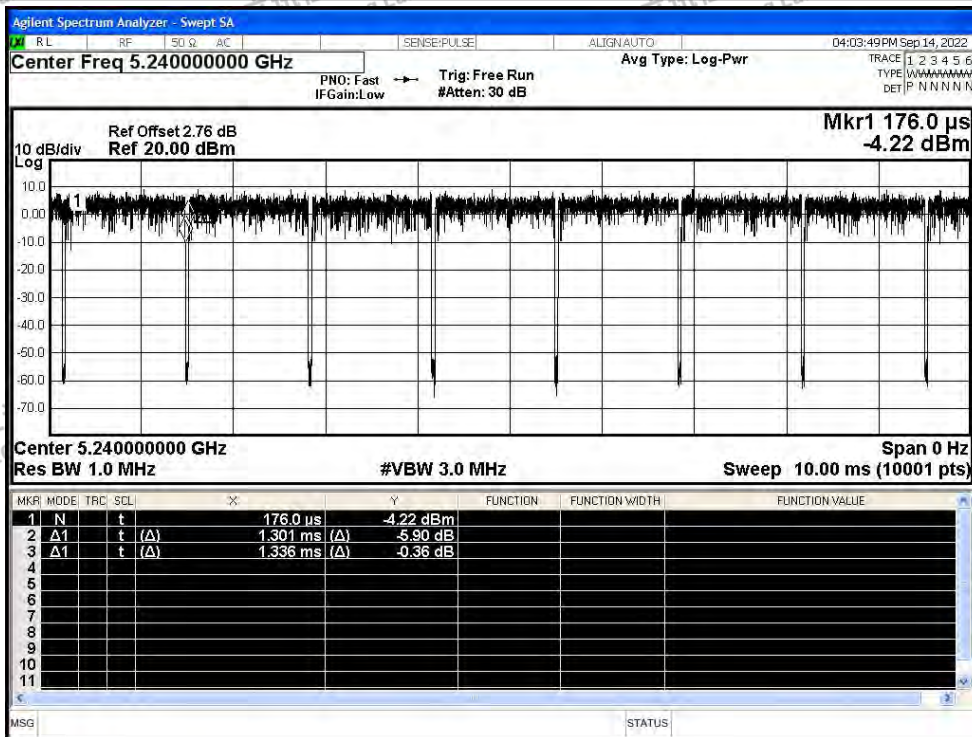


Duty Cycle NVNT ac20 5200MHz Ant2

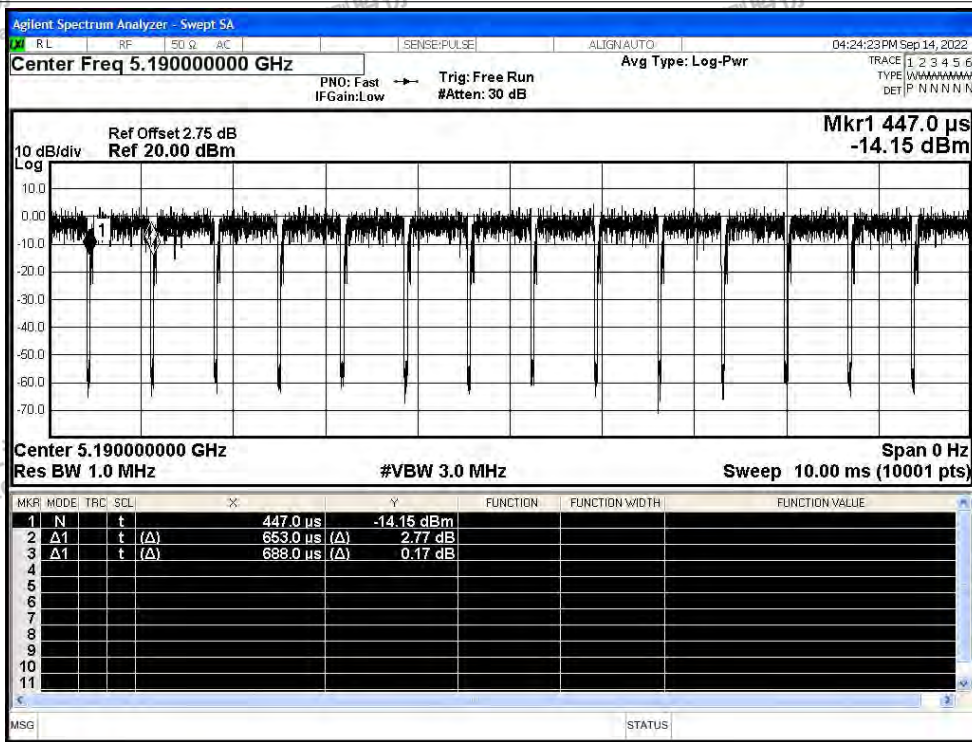




Duty Cycle NVNT ac20 5240MHz Ant2

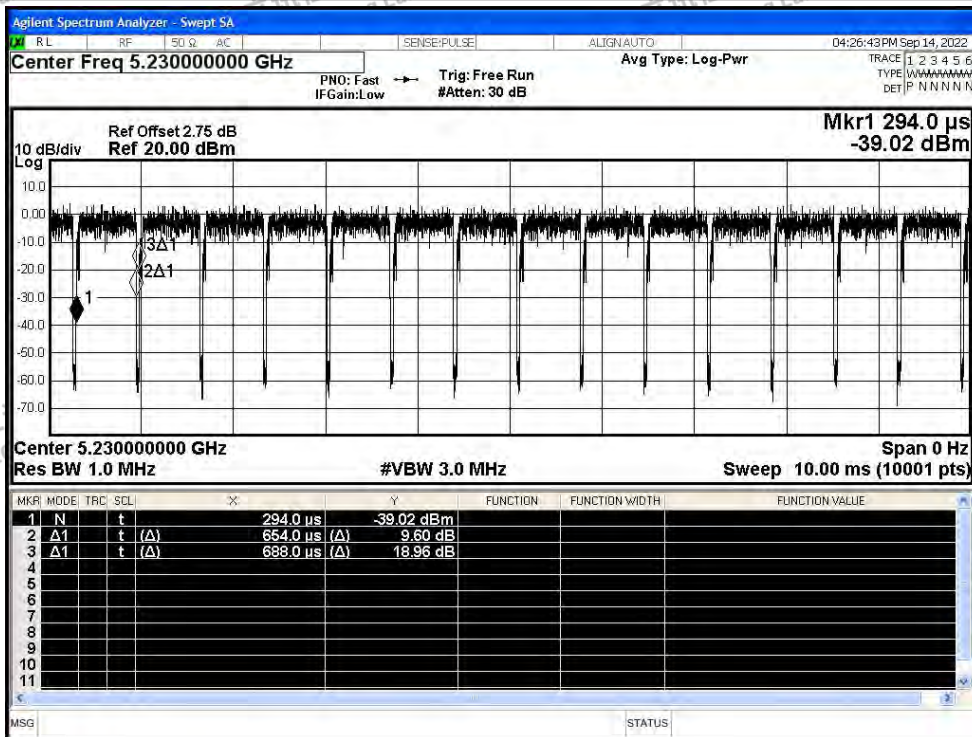


Duty Cycle NVNT ac40 5190MHz Ant2





Duty Cycle NVNT ac40 5230MHz Ant2



Duty Cycle NVNT ac80 5210MHz Ant2

