



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Hyundai Mini PC

Test Model: HMB10P01

Environmental Conditions

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





D.1 -26dB Bandwidth

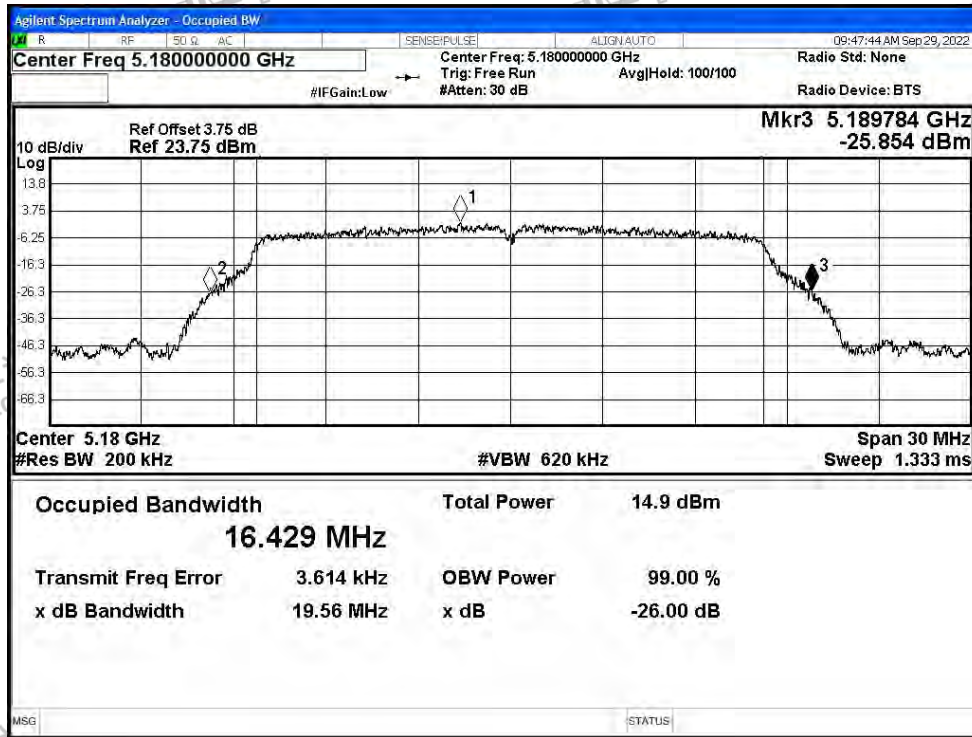
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	19.561	>=0.5	Pass
NVNT	a	5200	Ant0	19.597	>=0.5	Pass
NVNT	a	5240	Ant0	19.691	>=0.5	Pass
NVNT	n20	5180	Ant0	20.099	>=0.5	Pass
NVNT	n20	5200	Ant0	20.099	>=0.5	Pass
NVNT	n20	5240	Ant0	20.037	>=0.5	Pass
NVNT	n40	5190	Ant0	39.823	>=0.5	Pass
NVNT	n40	5230	Ant0	40.452	>=0.5	Pass
NVNT	ac20	5180	Ant0	20.234	>=0.5	Pass
NVNT	ac20	5200	Ant0	20.025	>=0.5	Pass
NVNT	ac20	5240	Ant0	19.979	>=0.5	Pass
NVNT	ac40	5190	Ant0	40.429	>=0.5	Pass
NVNT	ac40	5230	Ant0	40.209	>=0.5	Pass
NVNT	ac80	5210	Ant0	80.021	>=0.5	Pass



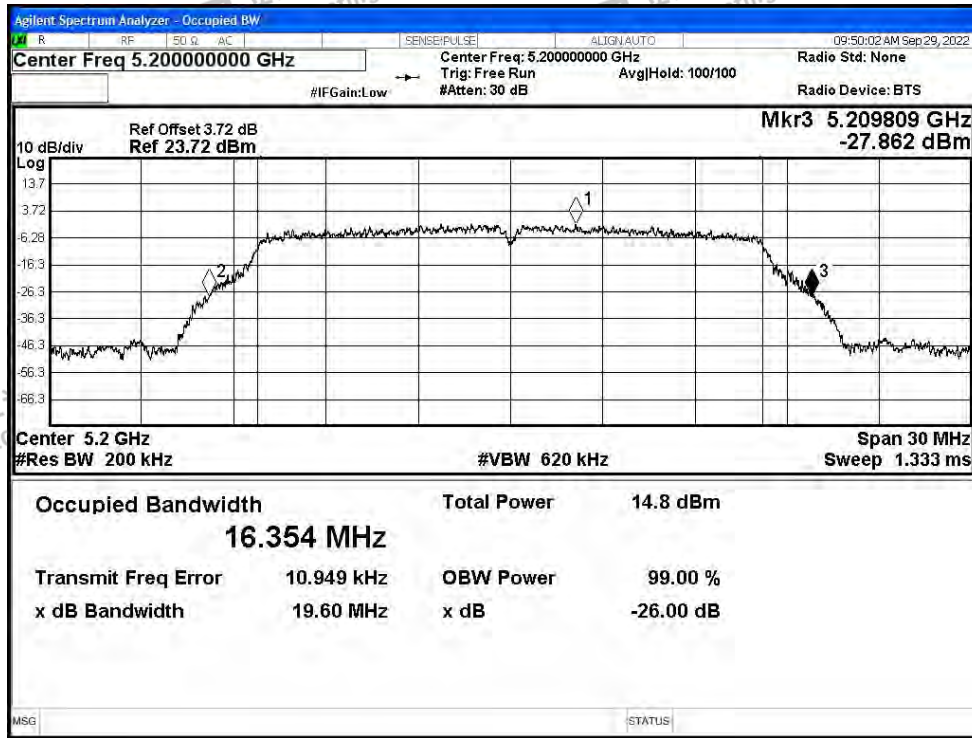


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0

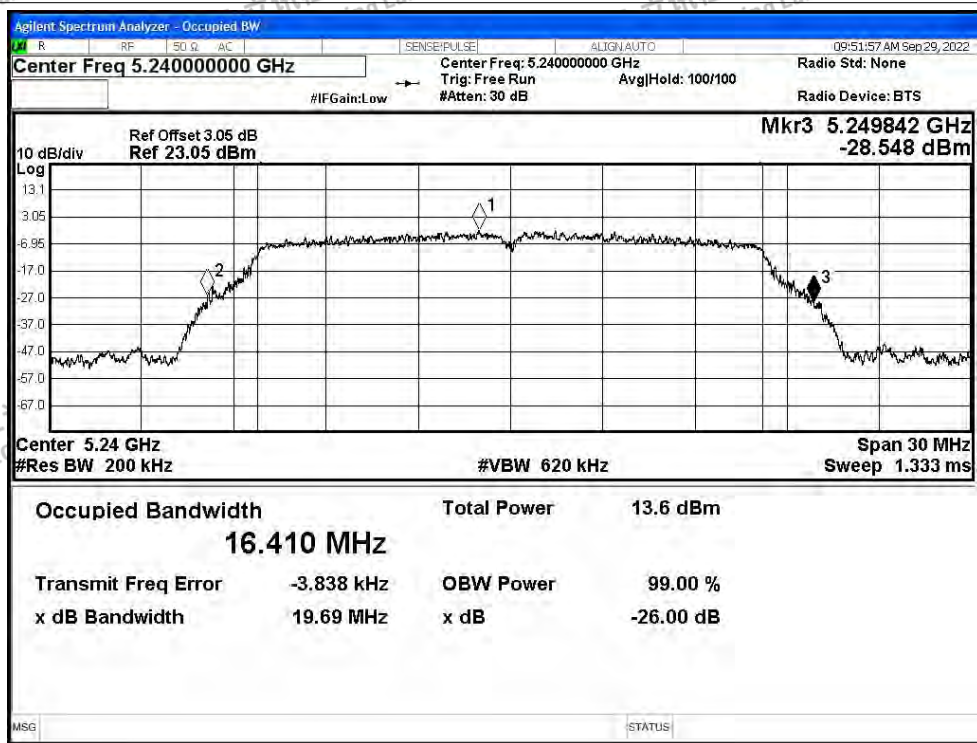


-26dB Bandwidth NVNT a 5200MHz Ant0

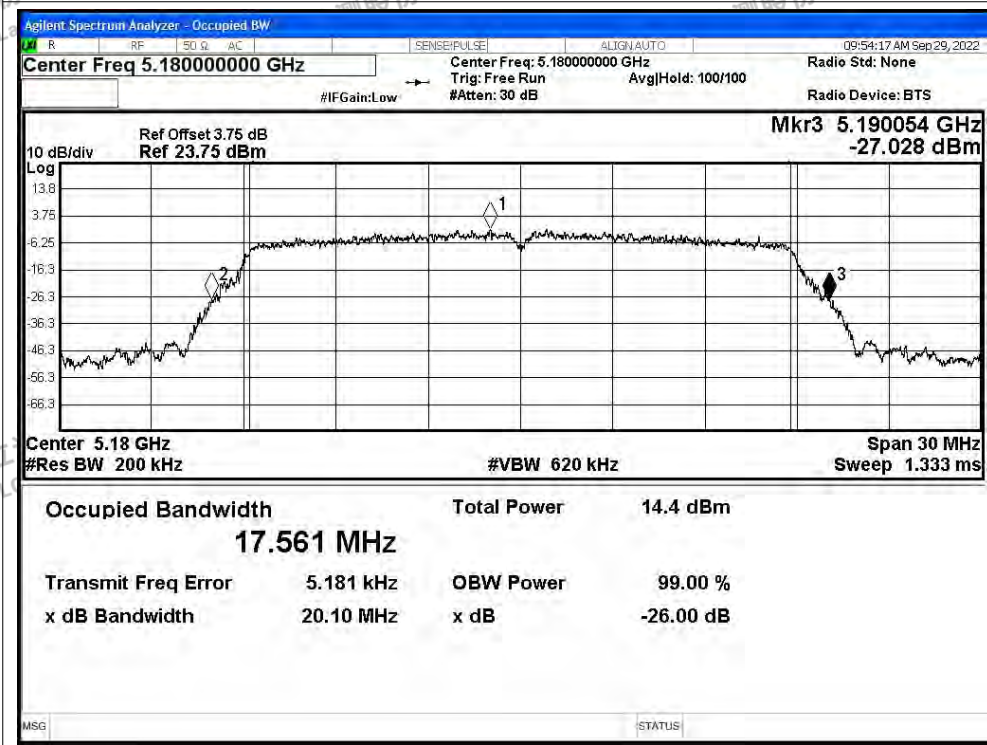




-26dB Bandwidth NVNT a 5240MHz Ant0

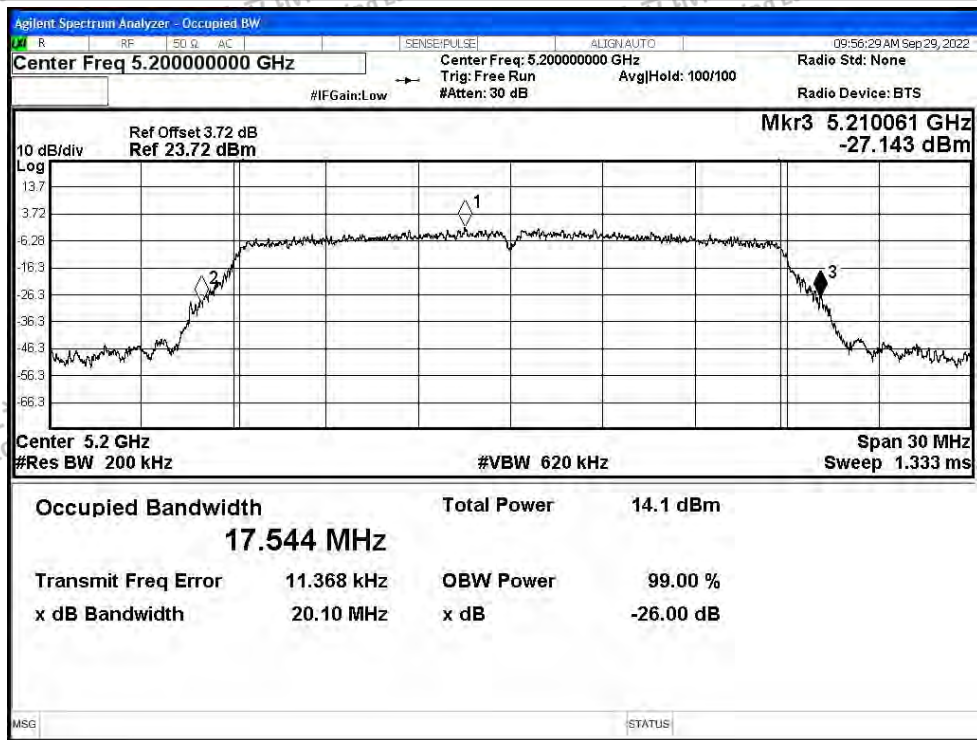


-26dB Bandwidth NVNT n20 5180MHz Ant0

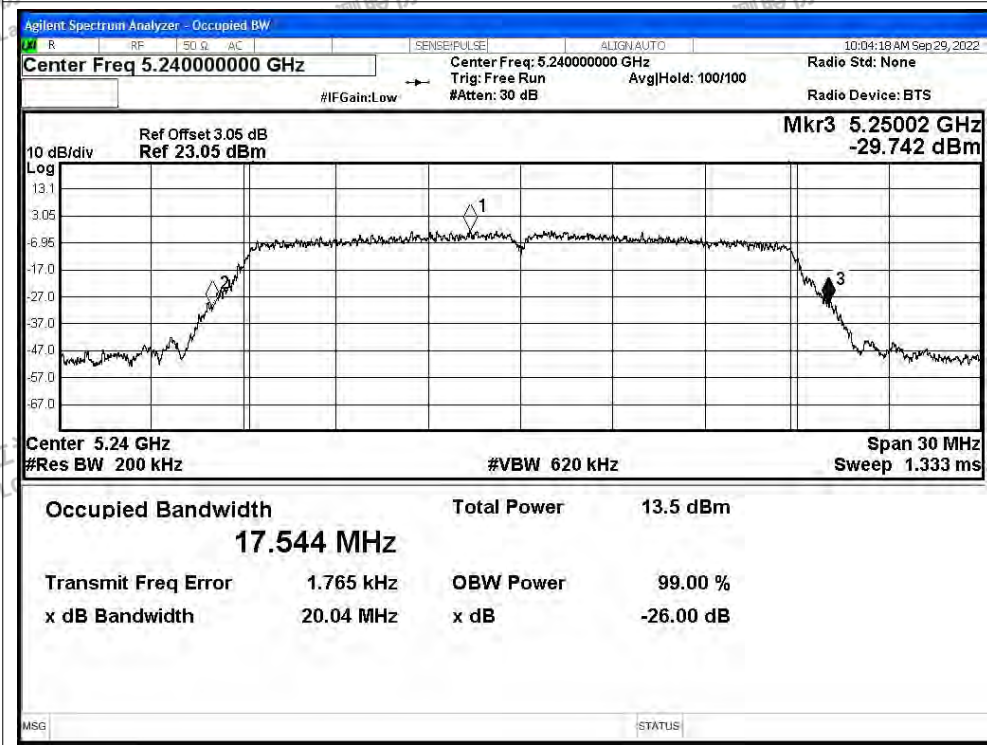




-26dB Bandwidth NVNT n20 5200MHz Ant0

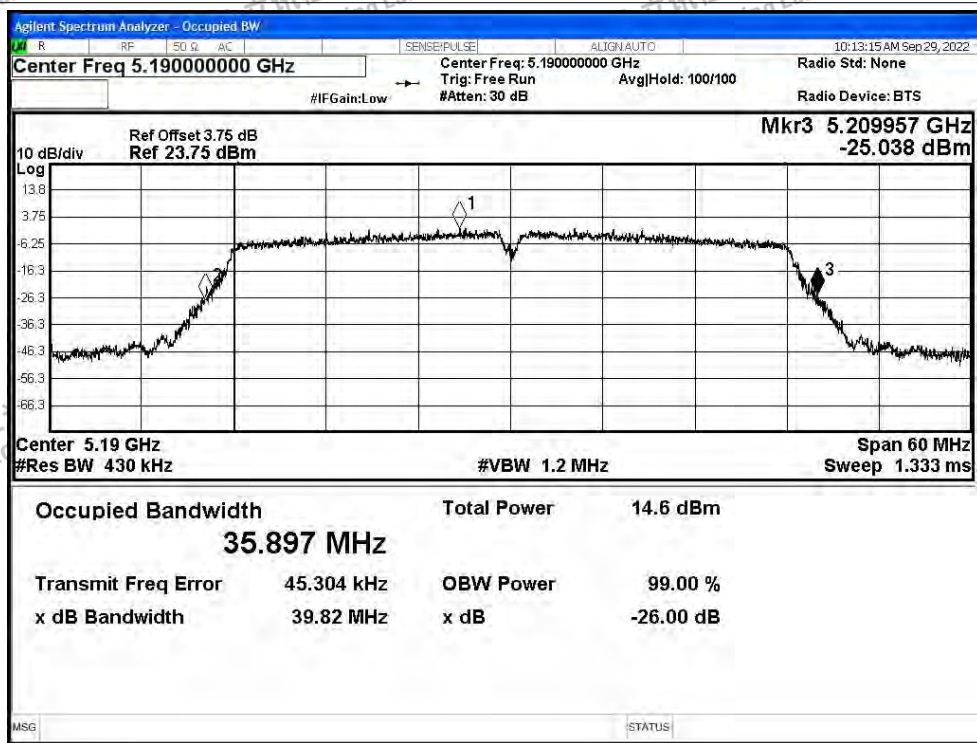


-26dB Bandwidth NVNT n20 5240MHz Ant0

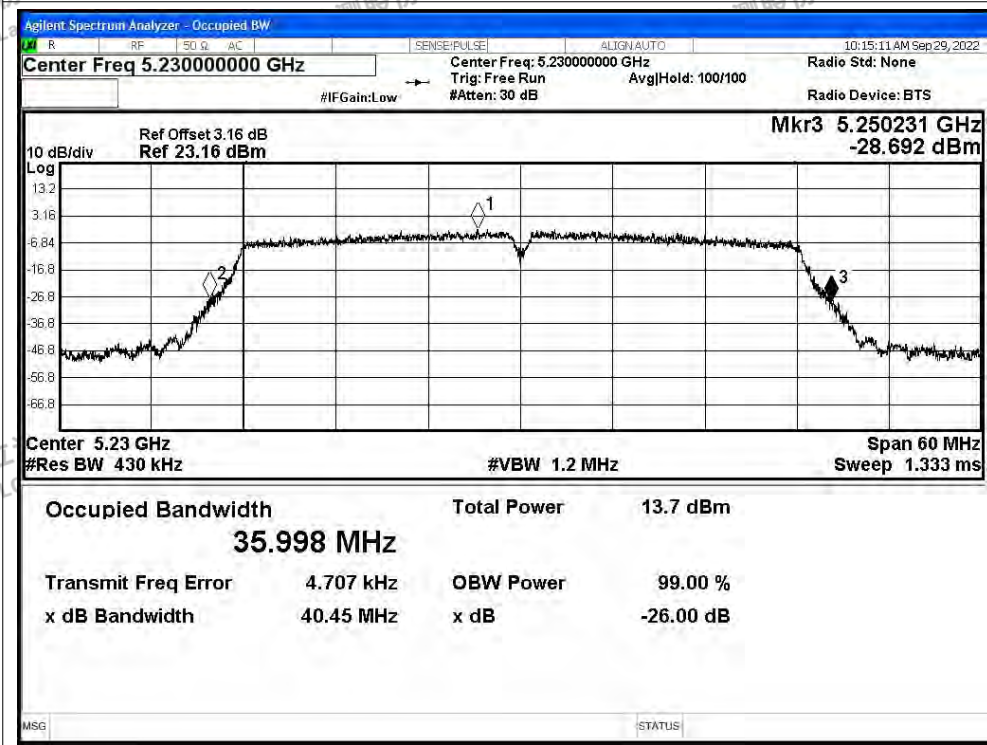




-26dB Bandwidth NVNT n40 5190MHz Ant0

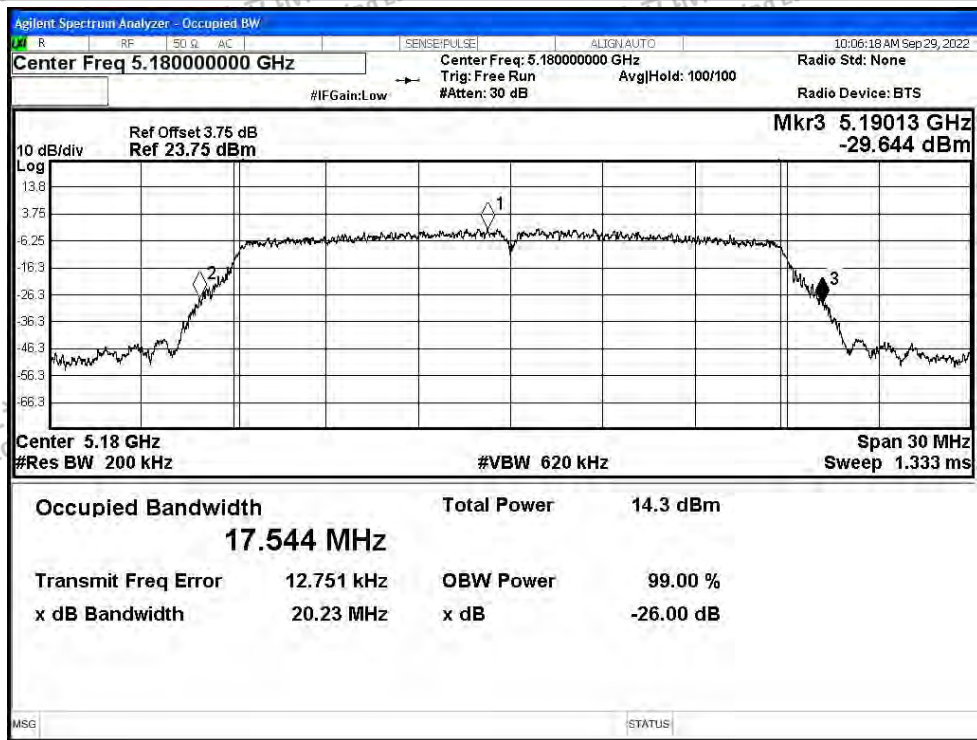


-26dB Bandwidth NVNT n40 5230MHz Ant0

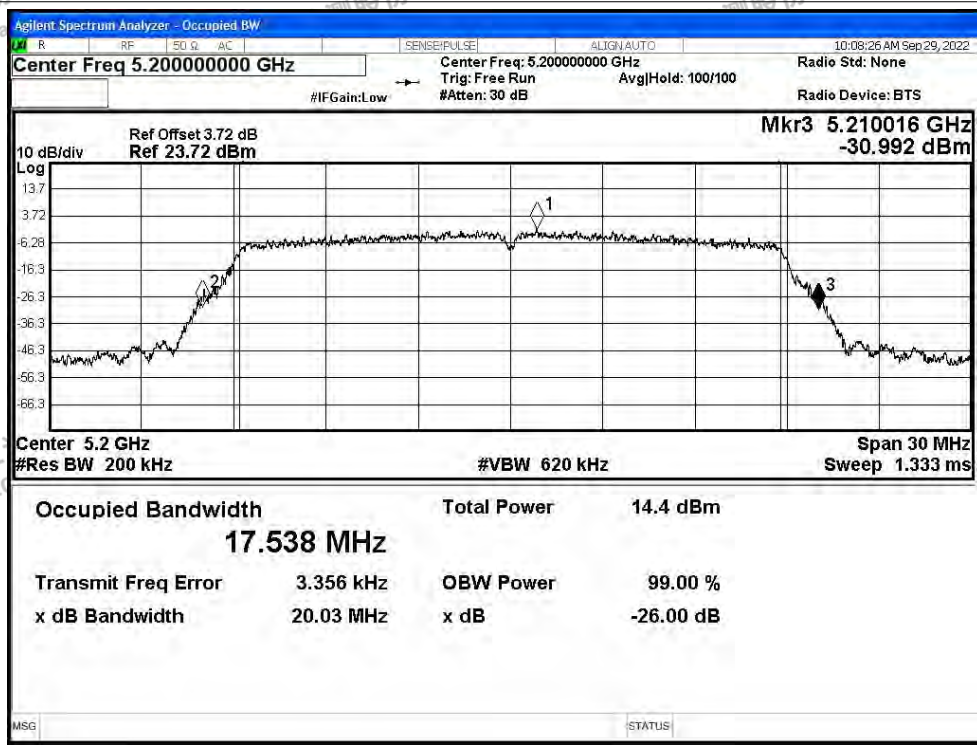




-26dB Bandwidth NVNT ac20 5180MHz Ant0

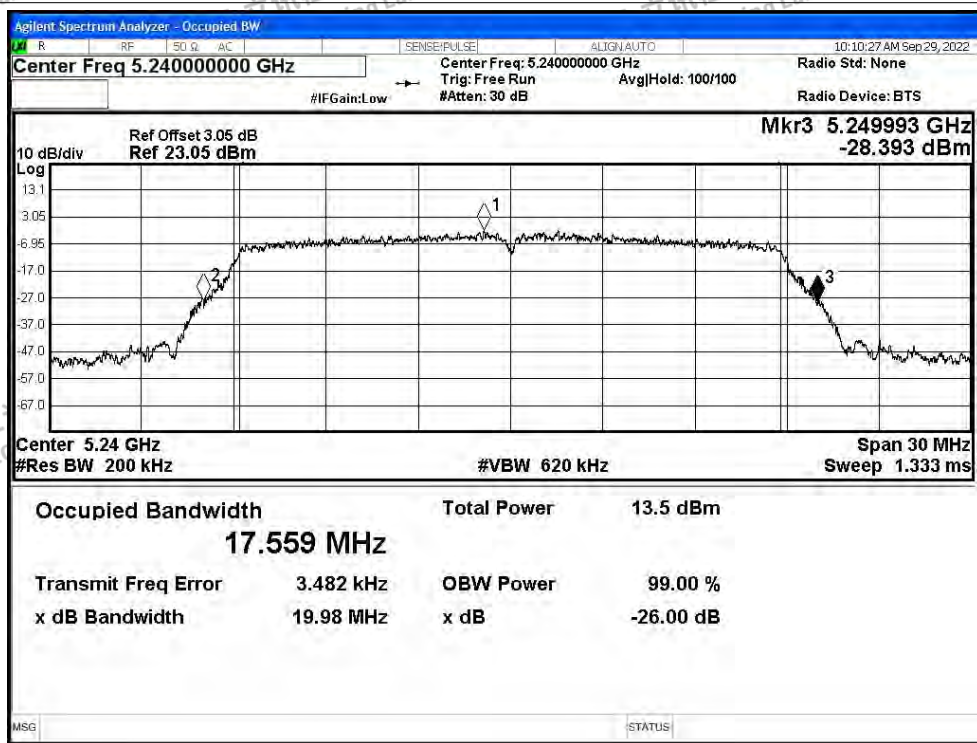


-26dB Bandwidth NVNT ac20 5200MHz Ant0

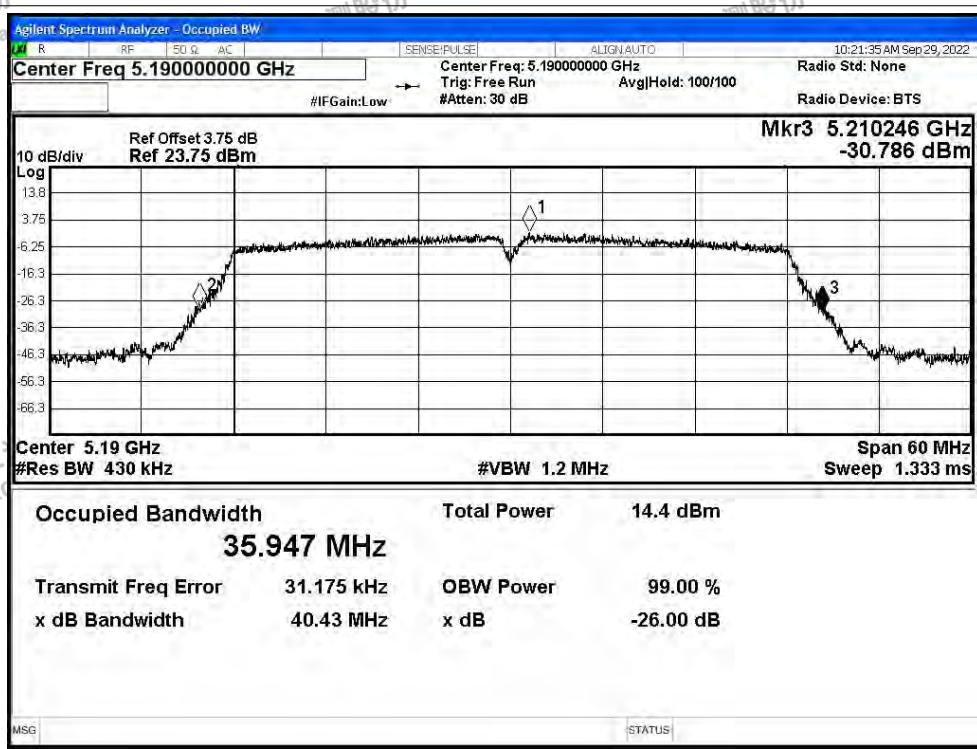




-26dB Bandwidth NVNT ac20 5240MHz Ant0

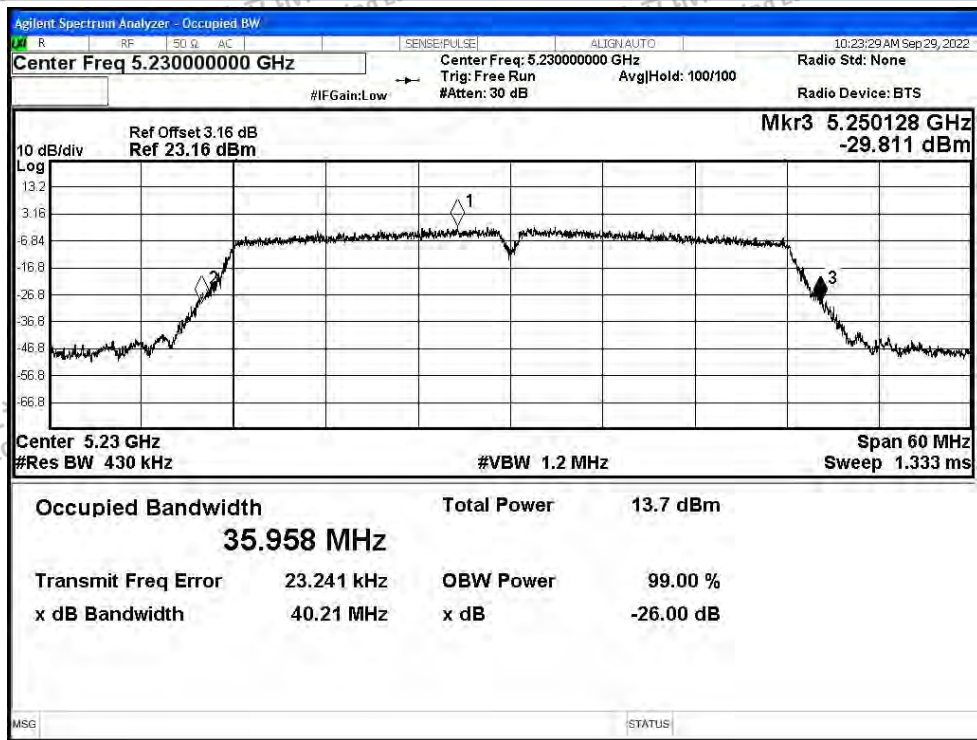


-26dB Bandwidth NVNT ac40 5190MHz Ant0

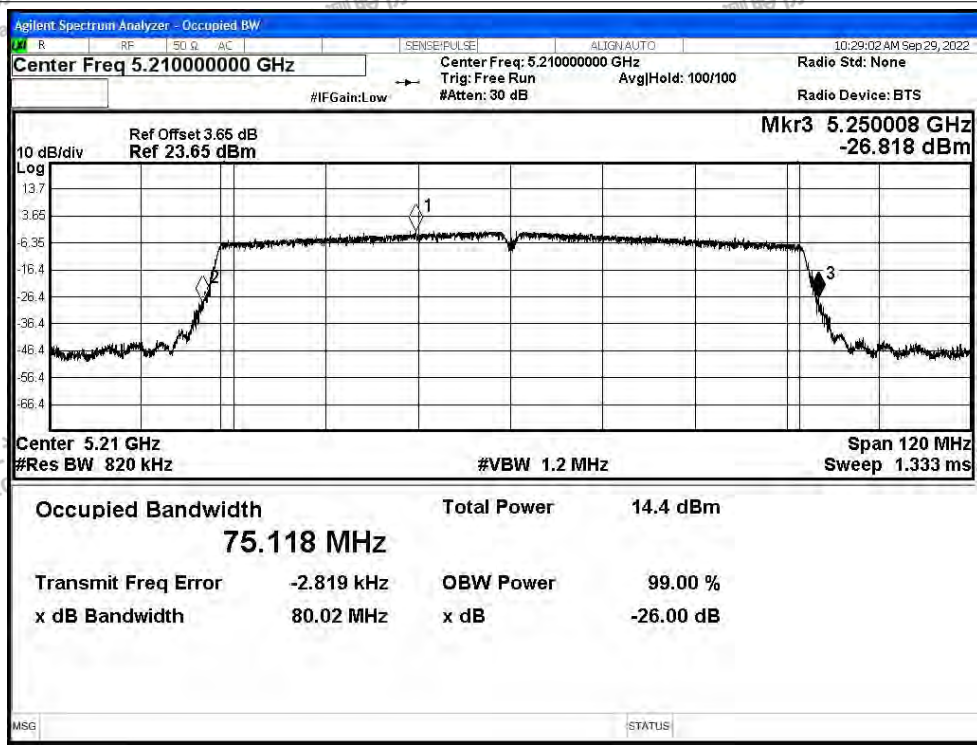




-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.657	>=0.5	Pass
NVNT	a	5200	Ant1	19.849	>=0.5	Pass
NVNT	a	5240	Ant1	19.483	>=0.5	Pass
NVNT	n20	5180	Ant1	20.136	>=0.5	Pass
NVNT	n20	5200	Ant1	20.102	>=0.5	Pass
NVNT	n20	5240	Ant1	20.023	>=0.5	Pass
NVNT	n40	5190	Ant1	40.502	>=0.5	Pass
NVNT	n40	5230	Ant1	40.27	>=0.5	Pass
NVNT	ac20	5180	Ant1	20.144	>=0.5	Pass
NVNT	ac20	5200	Ant1	20.145	>=0.5	Pass
NVNT	ac20	5240	Ant1	19.878	>=0.5	Pass
NVNT	ac40	5190	Ant1	40.253	>=0.5	Pass
NVNT	ac40	5230	Ant1	40.204	>=0.5	Pass
NVNT	ac80	5210	Ant1	80.427	>=0.5	Pass

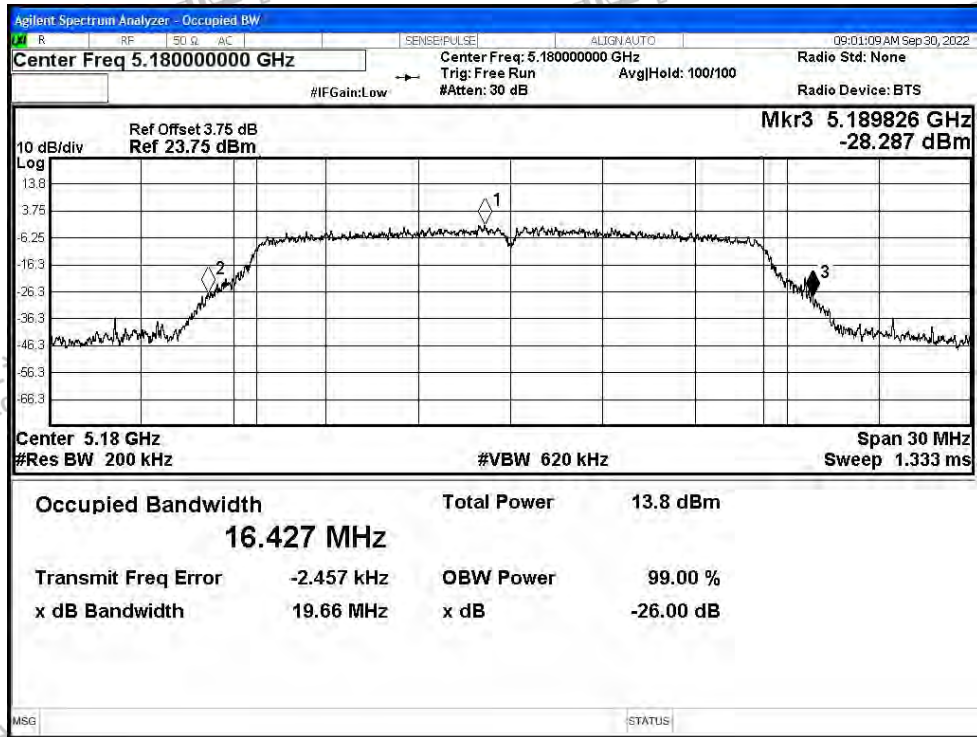


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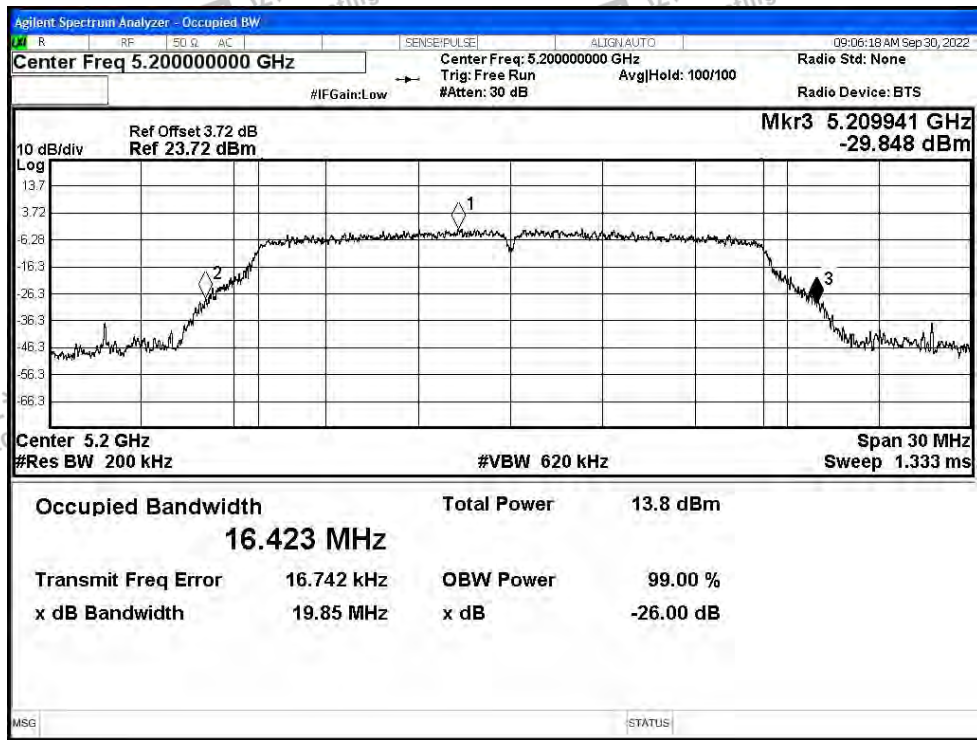


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

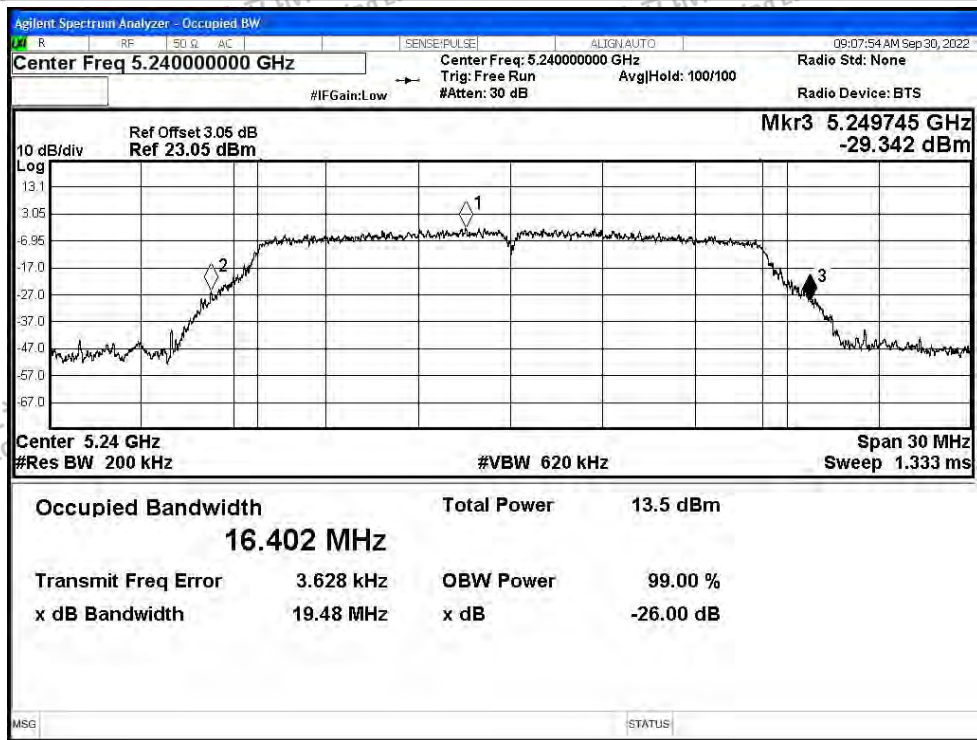


-26dB Bandwidth NVNT a 5200MHz Ant1

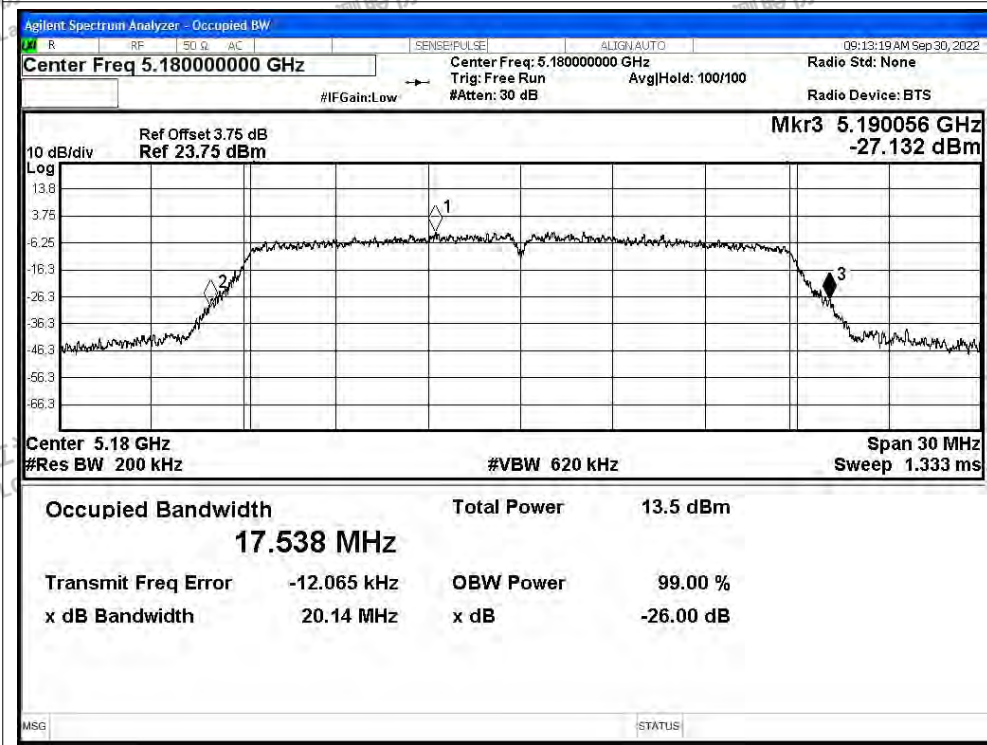




-26dB Bandwidth NVNT a 5240MHz Ant1

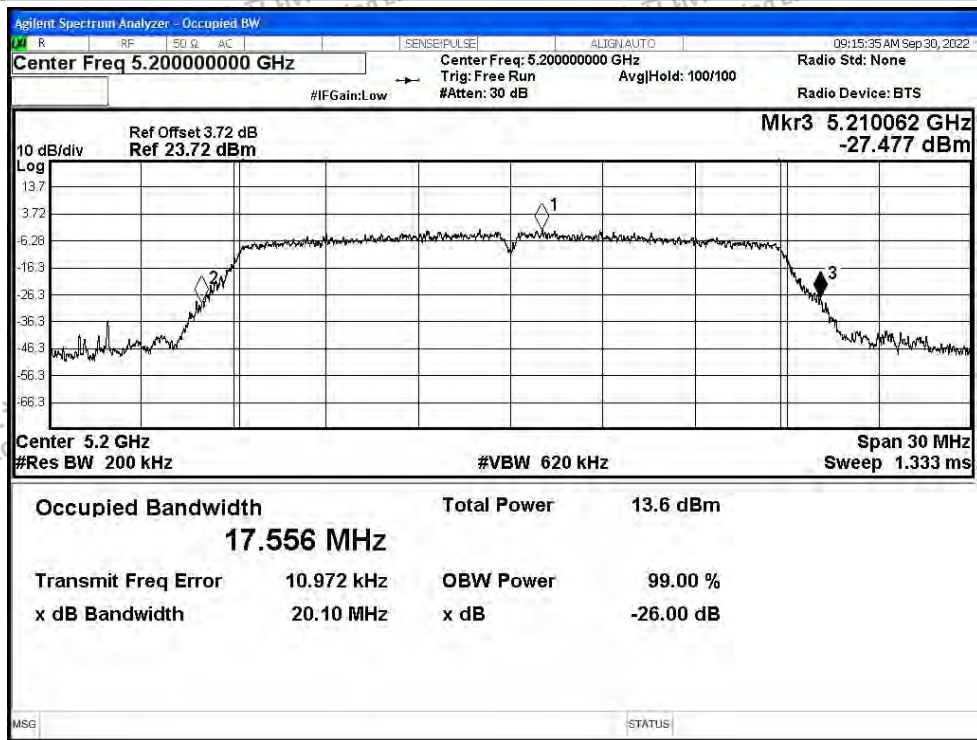


-26dB Bandwidth NVNT n20 5180MHz Ant1

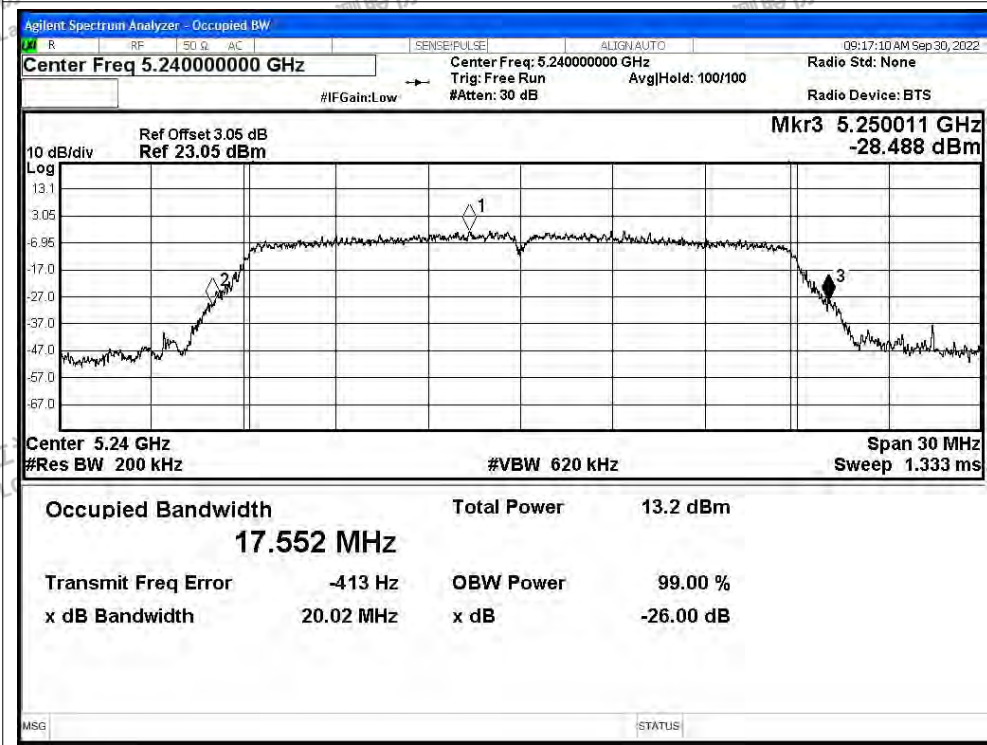




-26dB Bandwidth NVNT n20 5200MHz Ant1

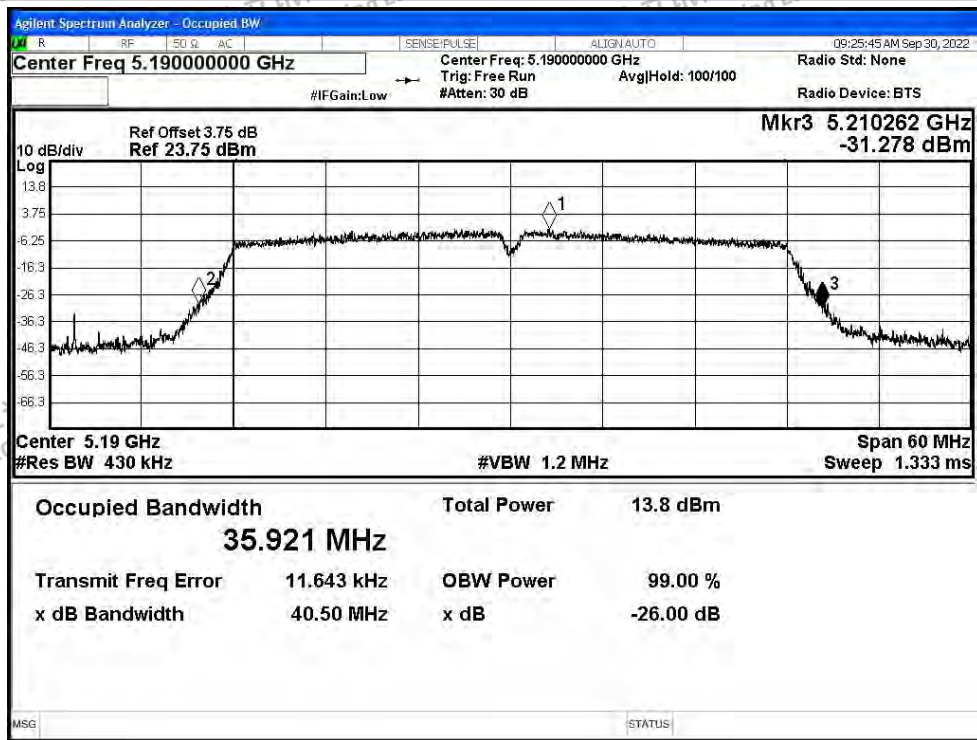


-26dB Bandwidth NVNT n20 5240MHz Ant1

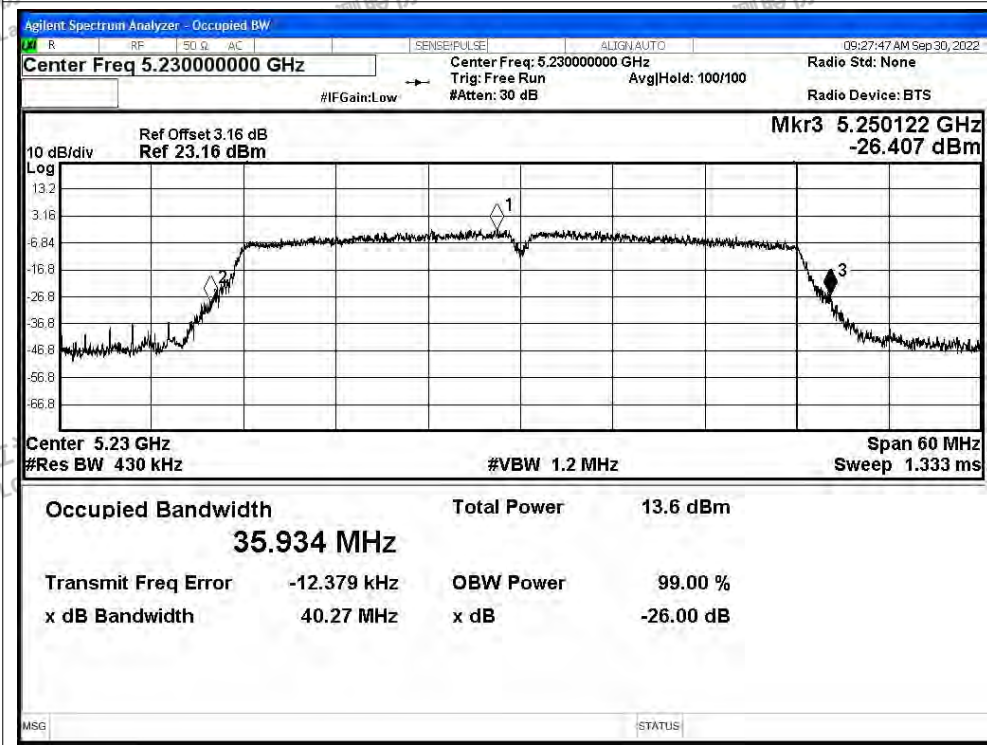




-26dB Bandwidth NVNT n40 5190MHz Ant1

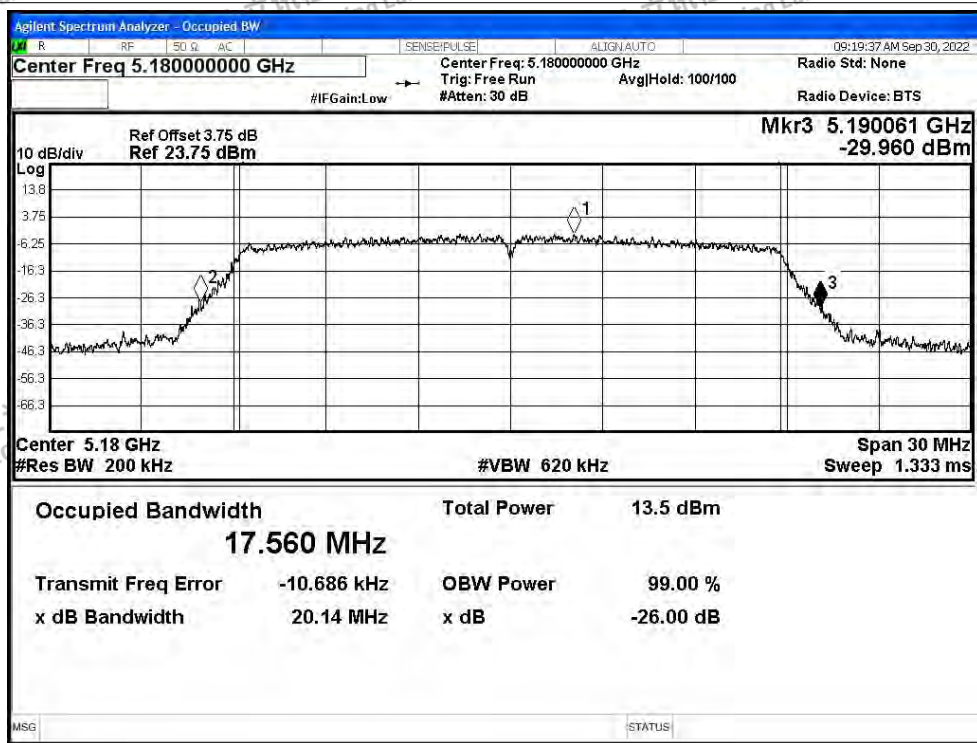


-26dB Bandwidth NVNT n40 5230MHz Ant1

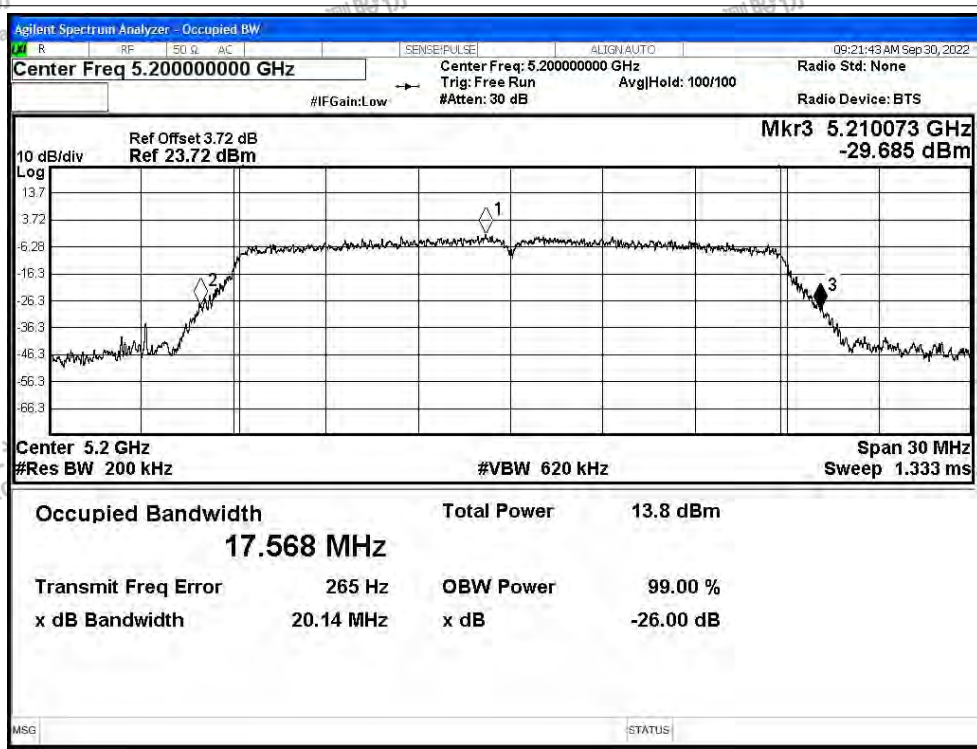




-26dB Bandwidth NVNT ac20 5180MHz Ant1

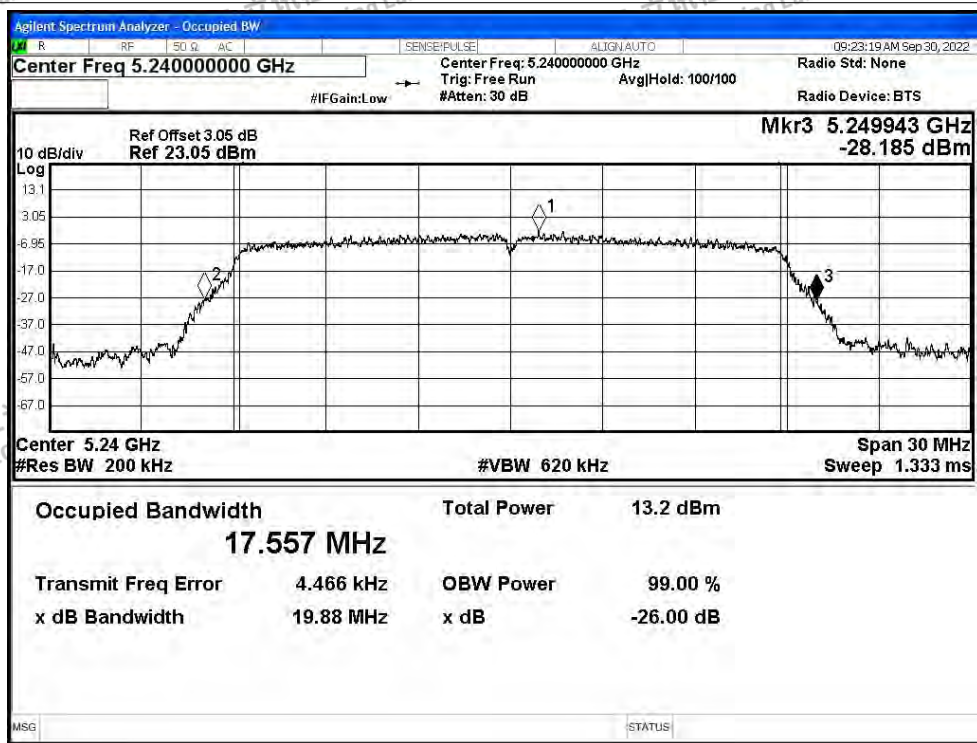


-26dB Bandwidth NVNT ac20 5200MHz Ant1





-26dB Bandwidth NVNT ac20 5240MHz Ant1

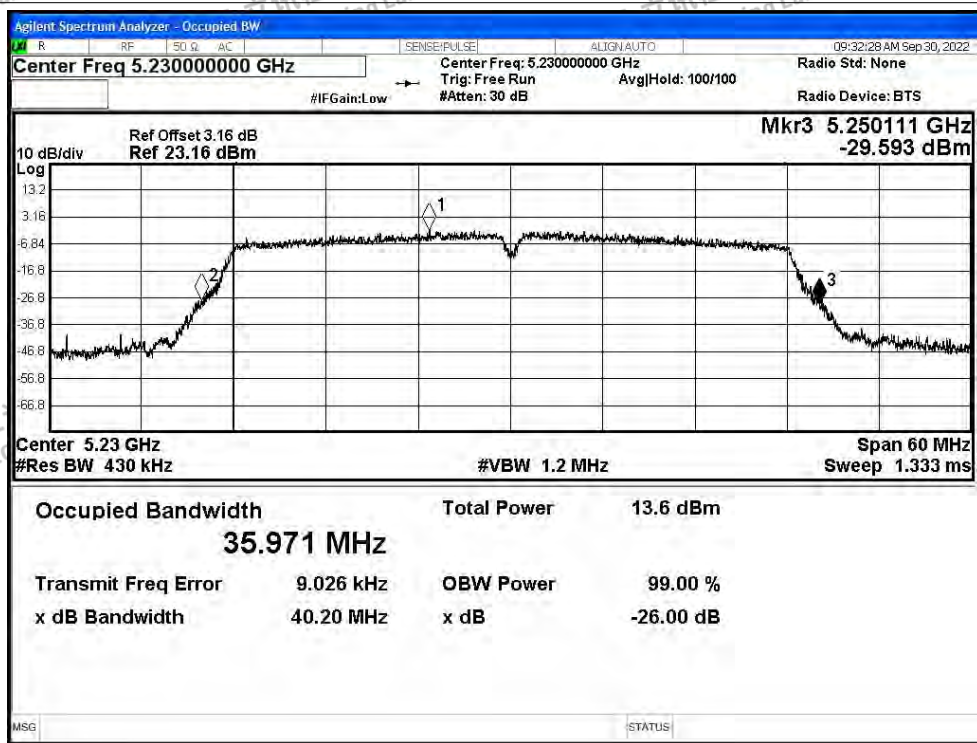


-26dB Bandwidth NVNT ac40 5190MHz Ant1

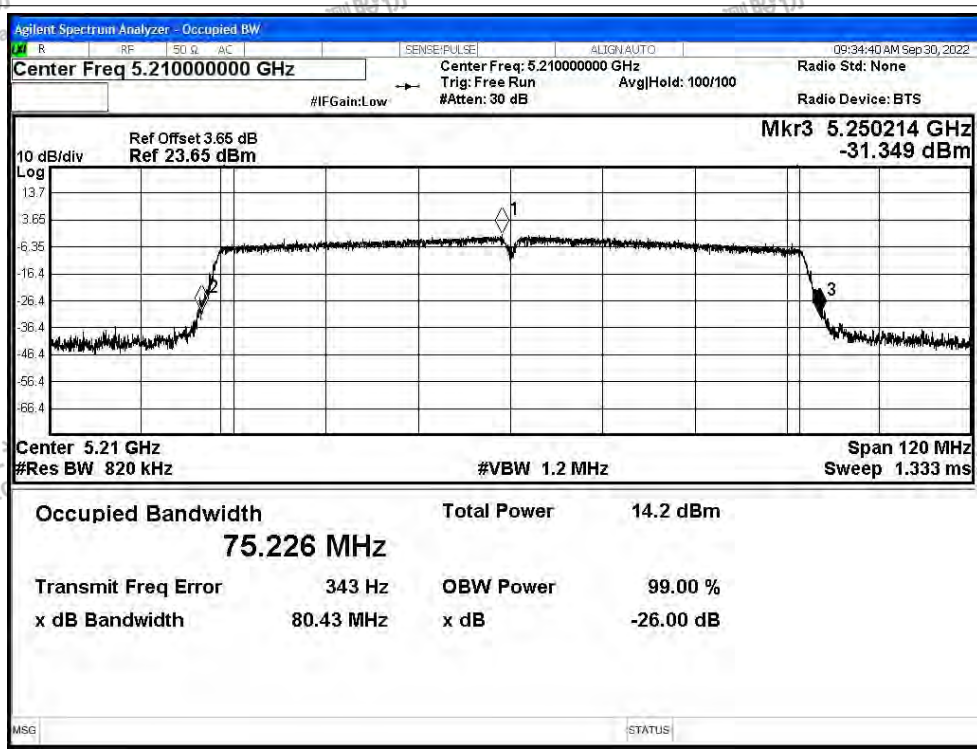




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





D.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant0	16.383
NVNT	a	5200	Ant0	16.389
NVNT	a	5240	Ant0	16.422
NVNT	n20	5180	Ant0	17.559
NVNT	n20	5200	Ant0	17.545
NVNT	n20	5240	Ant0	17.542
NVNT	n40	5190	Ant0	35.946
NVNT	n40	5230	Ant0	36.018
NVNT	ac20	5180	Ant0	17.542
NVNT	ac20	5200	Ant0	17.541
NVNT	ac20	5240	Ant0	17.58
NVNT	ac40	5190	Ant0	35.91
NVNT	ac40	5230	Ant0	36.016
NVNT	ac80	5210	Ant0	75.14

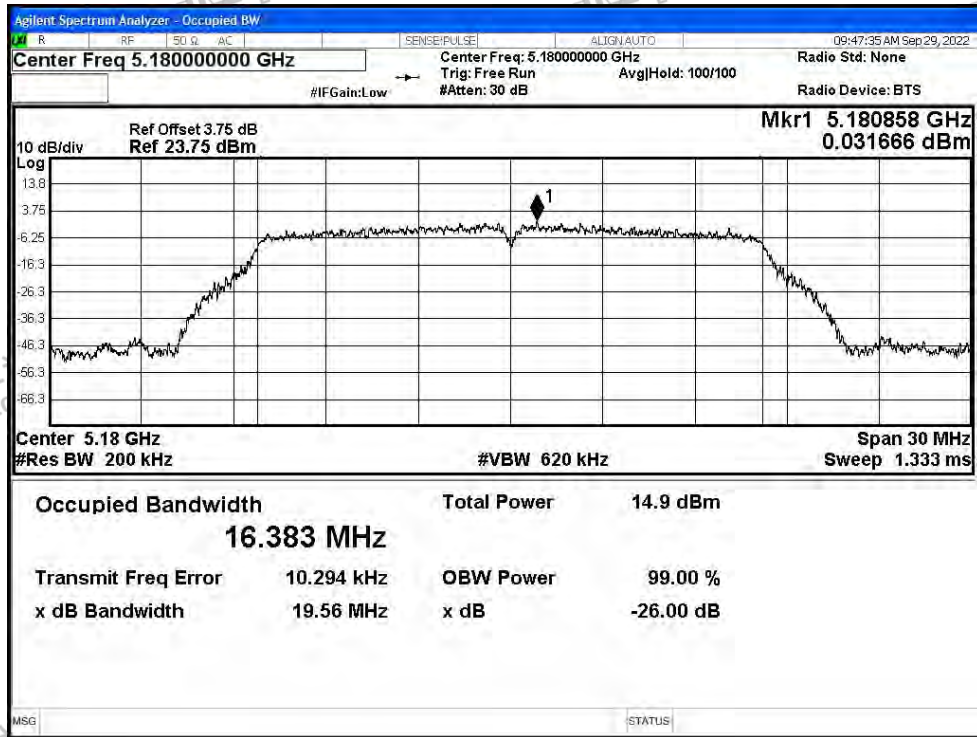


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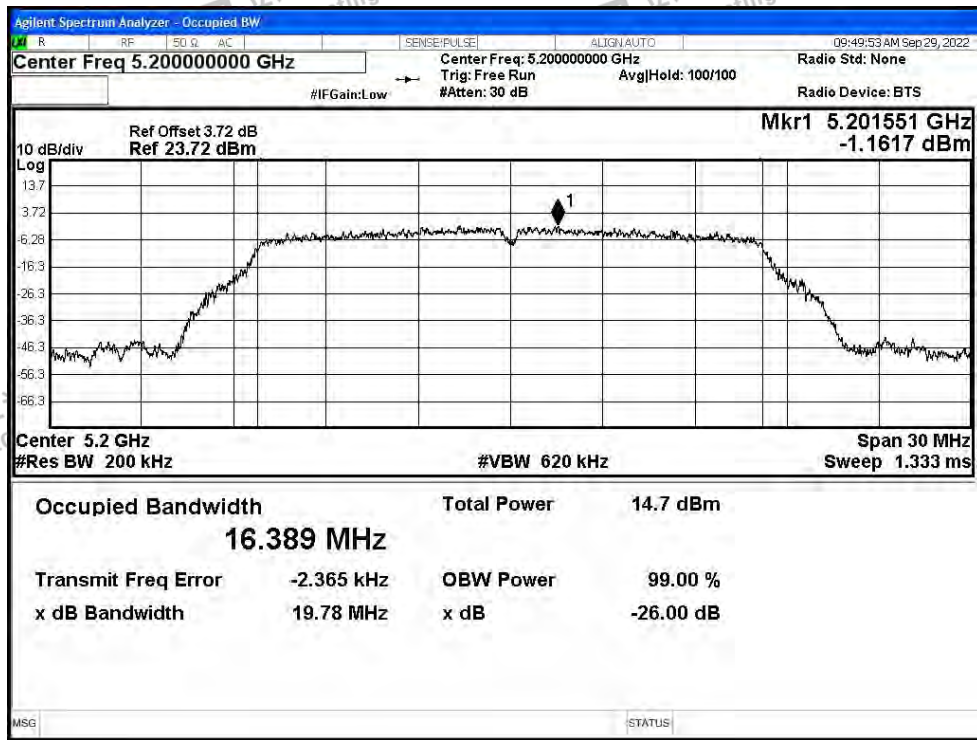


Test Graphs

OBW NVNT a 5180MHz Ant0

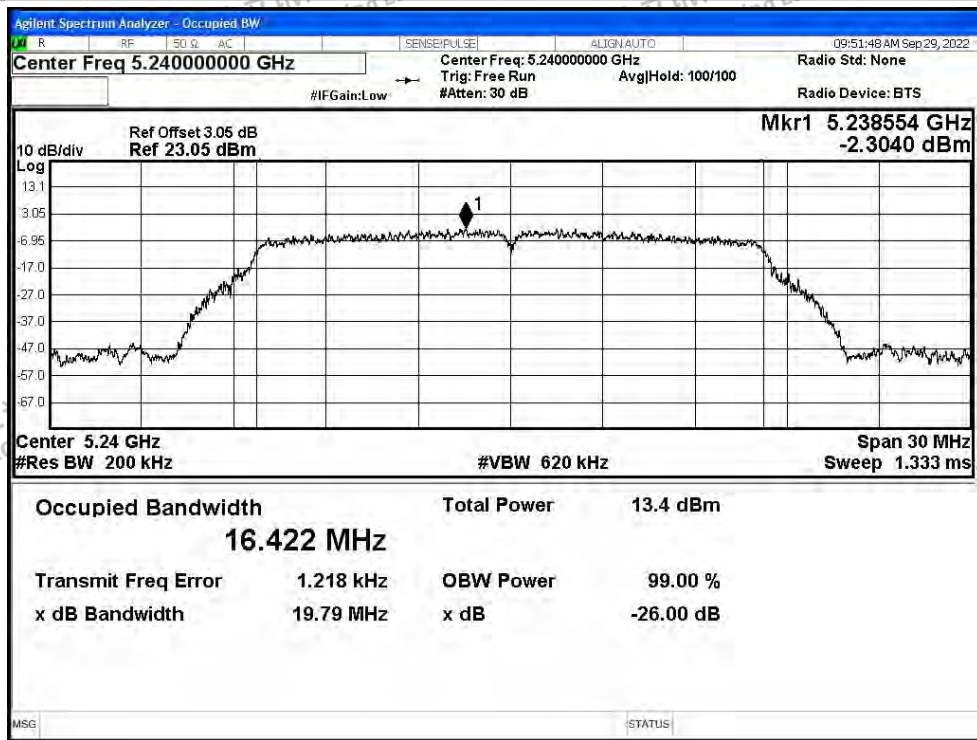


OBW NVNT a 5200MHz Ant0

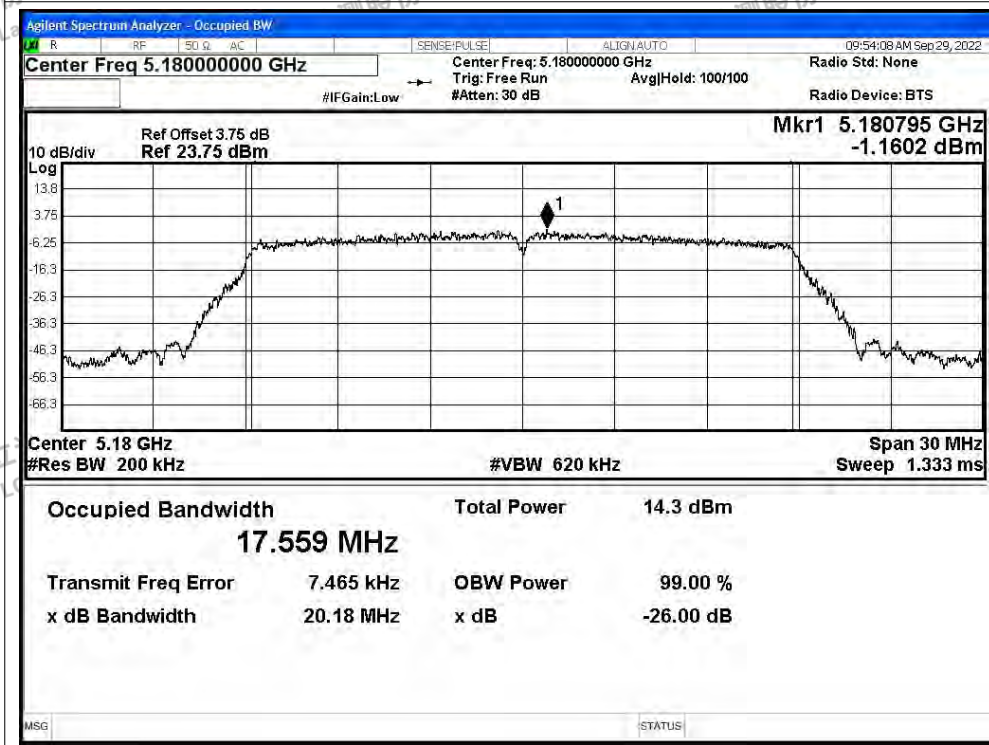




OBW NVNT a 5240MHz Ant0

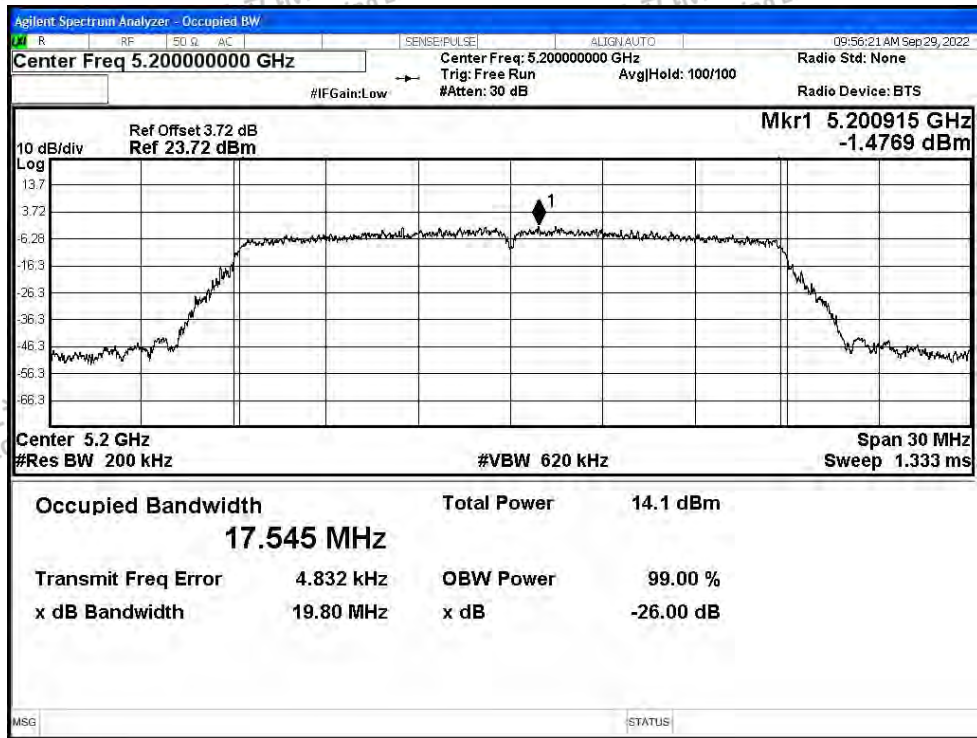


OBW NVNT n20 5180MHz Ant0

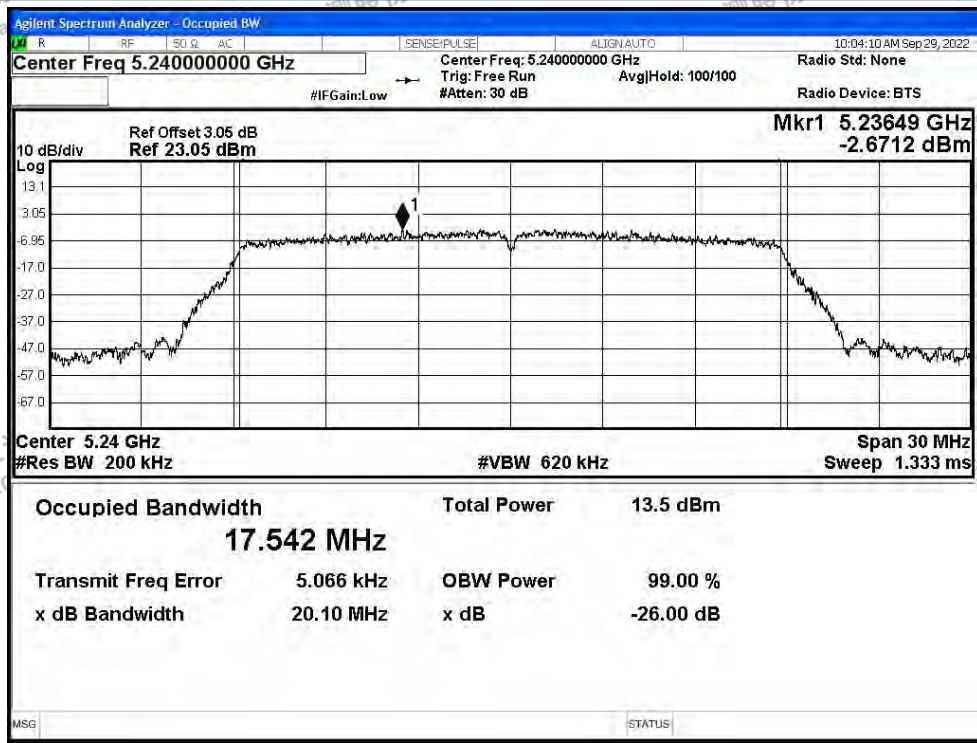




OBW NVNT n20 5200MHz Ant0

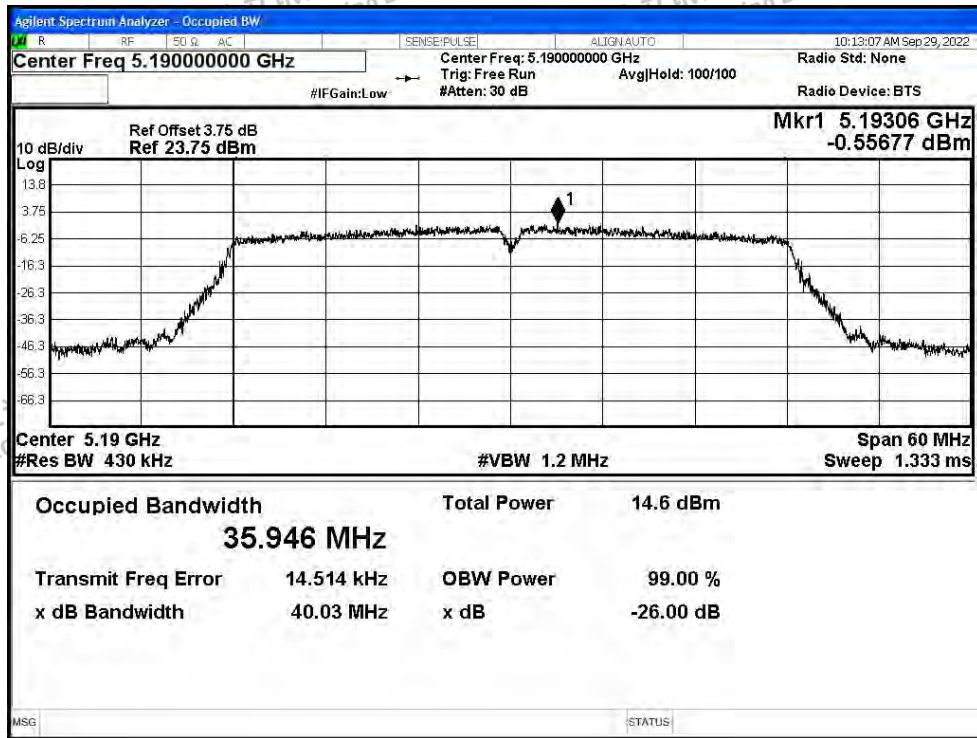


OBW NVNT n20 5240MHz Ant0

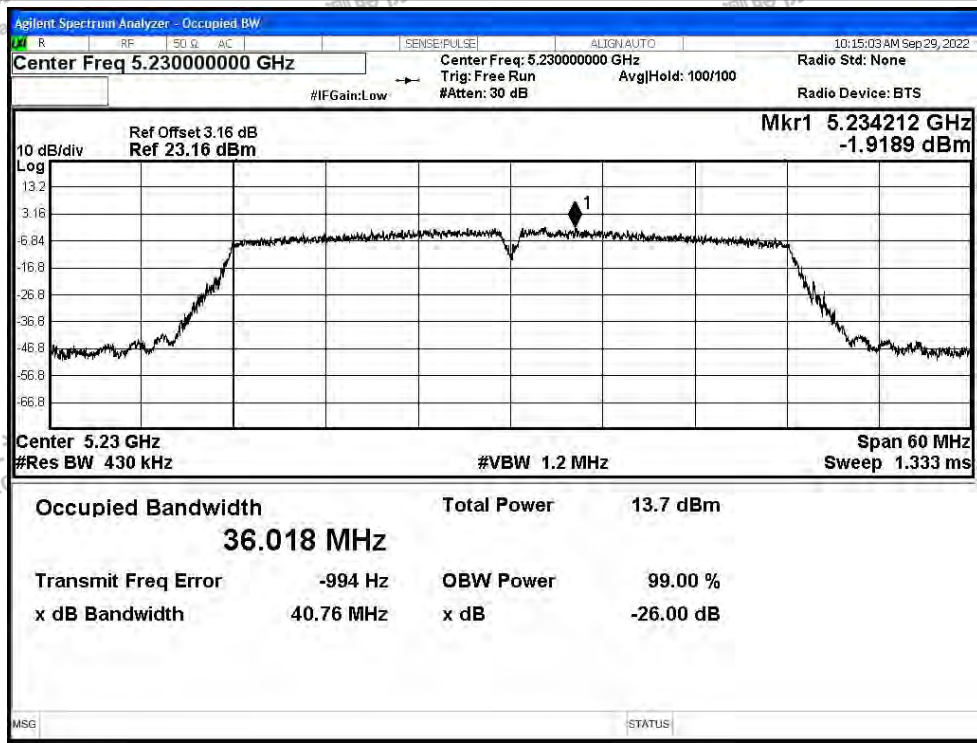




OBW NVNT n40 5190MHz Ant0

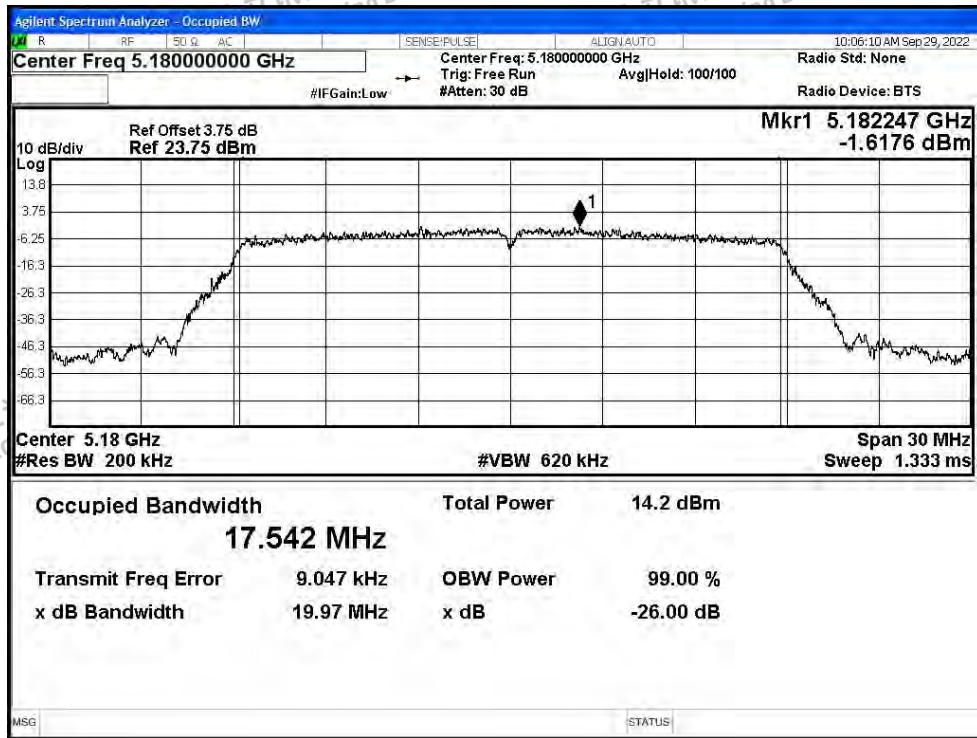


OBW NVNT n40 5230MHz Ant0

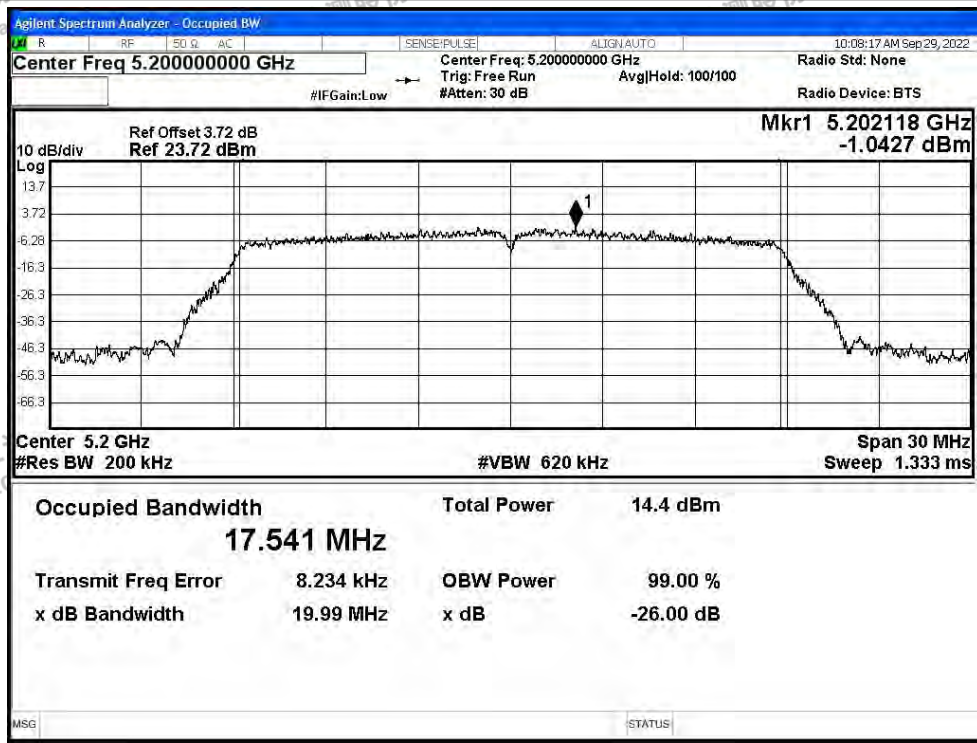




OBW NVNT ac20 5180MHz Ant0

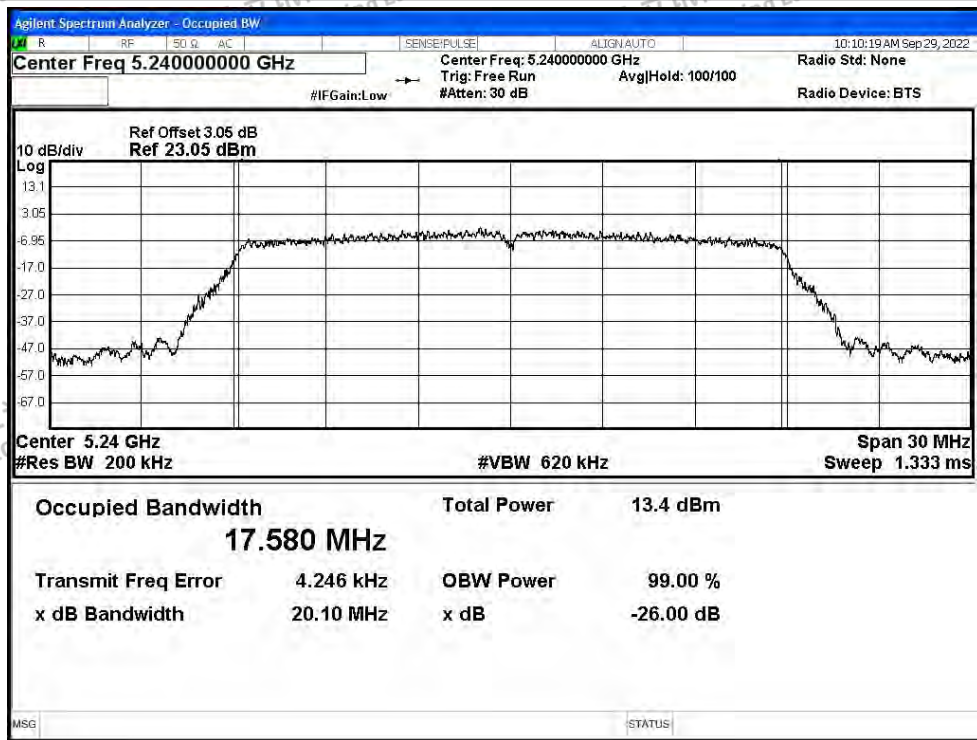


OBW NVNT ac20 5200MHz Ant0

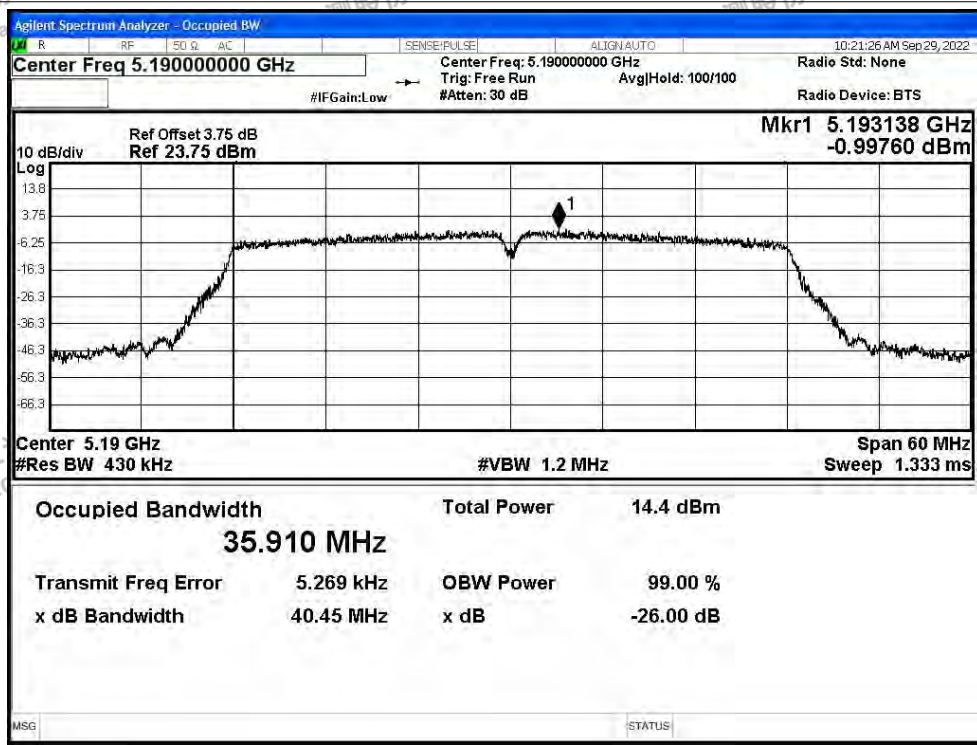




OBW NVNT ac20 5240MHz Ant0

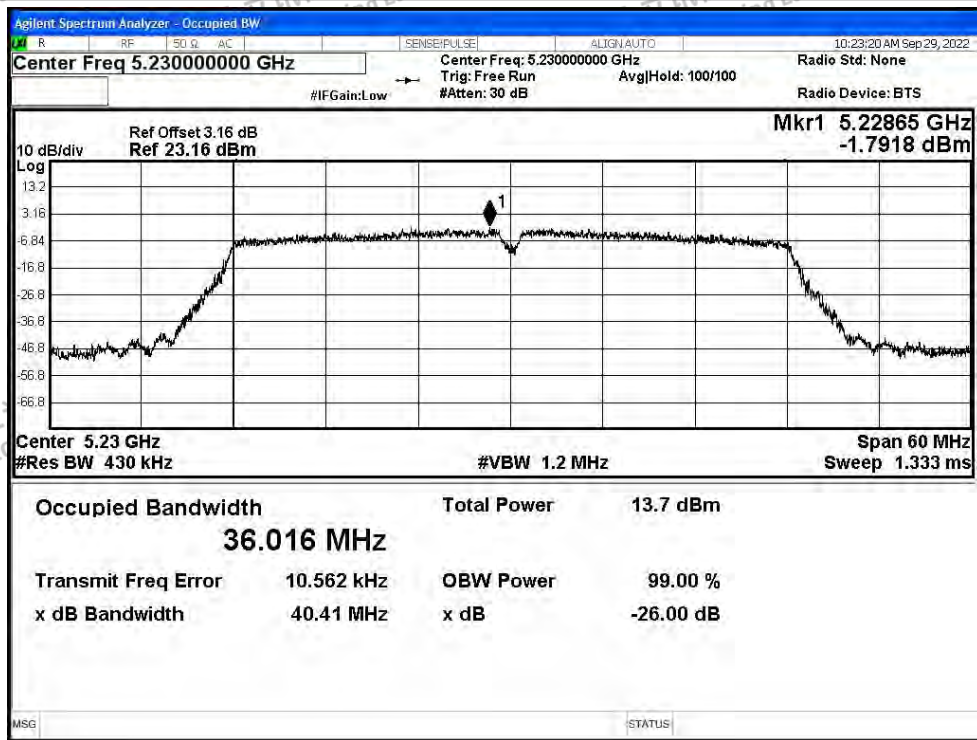


OBW NVNT ac40 5190MHz Ant0

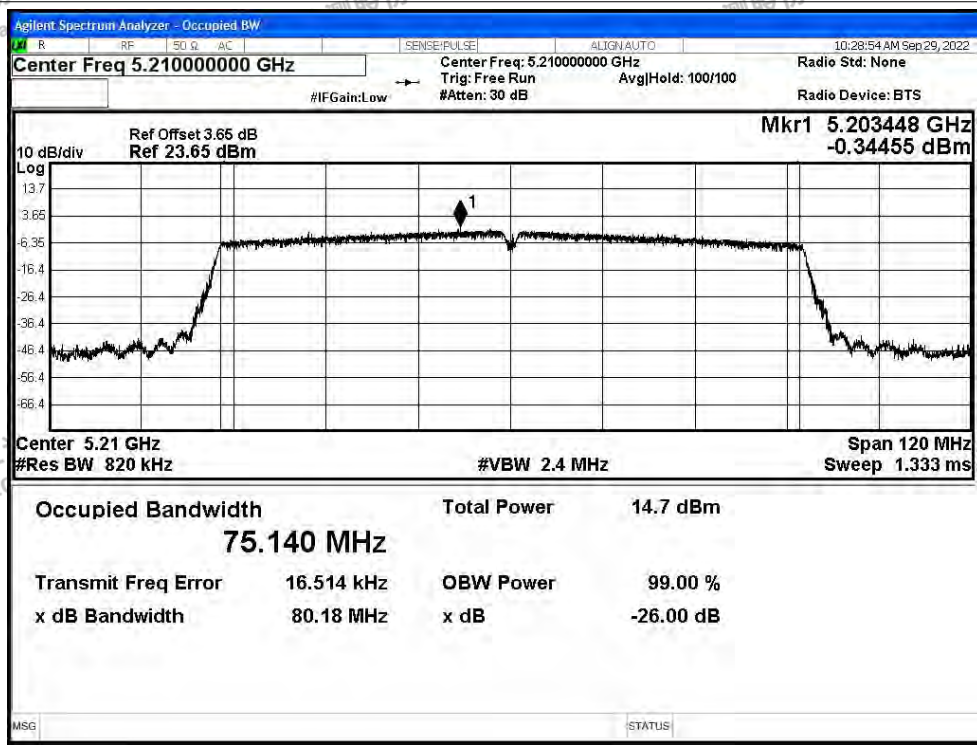




OBW NVNT ac40 5230MHz Ant0



OBW NVNT ac80 5210MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.402
NVNT	a	5200	Ant1	16.406
NVNT	a	5240	Ant1	16.396
NVNT	n20	5180	Ant1	17.563
NVNT	n20	5200	Ant1	17.567
NVNT	n20	5240	Ant1	17.567
NVNT	n40	5190	Ant1	35.925
NVNT	n40	5230	Ant1	35.913
NVNT	ac20	5180	Ant1	17.552
NVNT	ac20	5200	Ant1	17.55
NVNT	ac20	5240	Ant1	17.553
NVNT	ac40	5190	Ant1	35.943
NVNT	ac40	5230	Ant1	35.968
NVNT	ac80	5210	Ant1	75.202

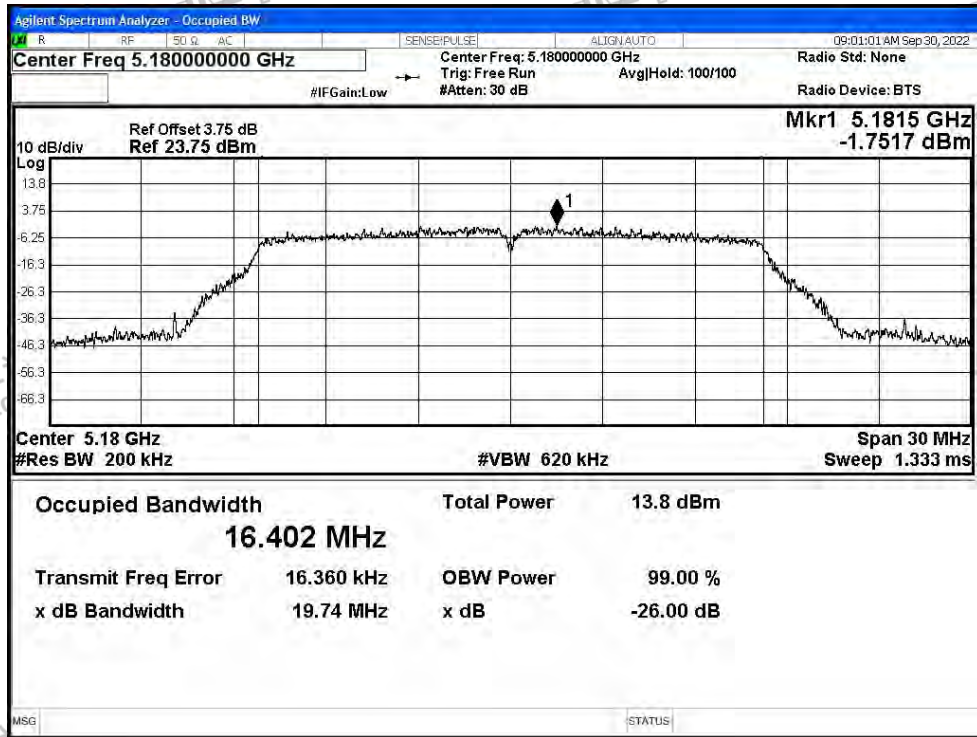


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 Scan code to check authenticity

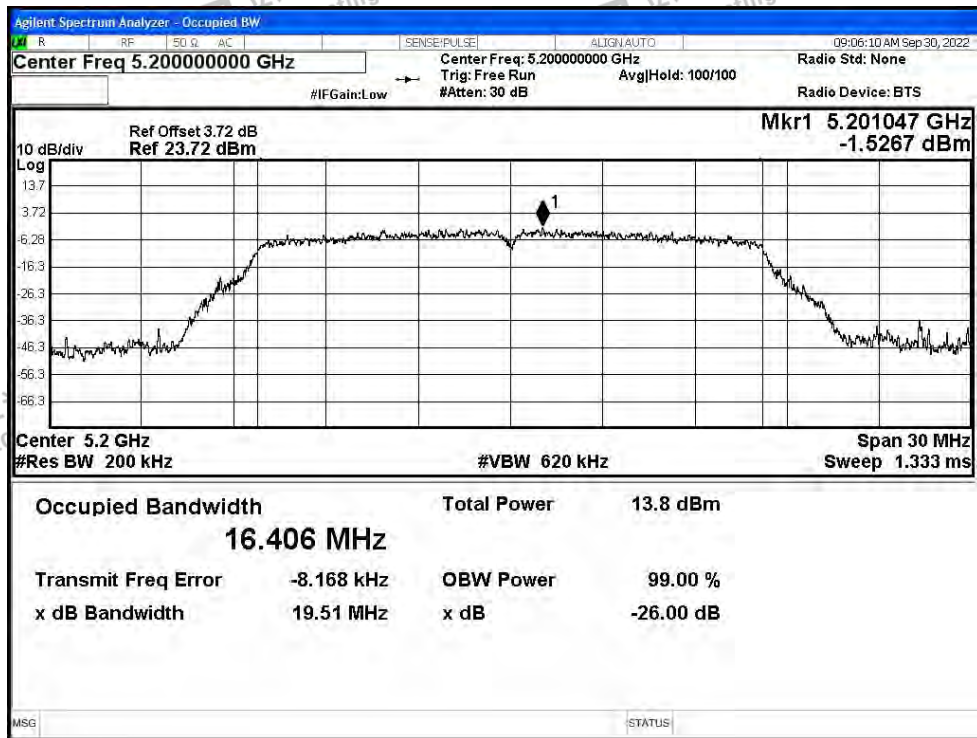


Test Graphs

OBW NVNT a 5180MHz Ant1

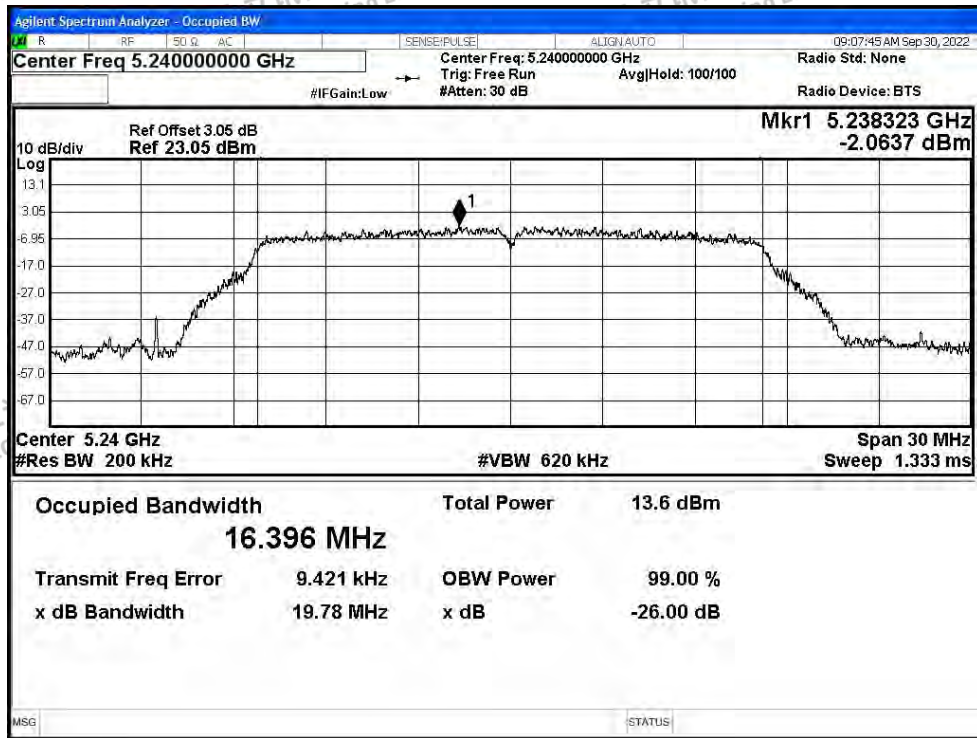


OBW NVNT a 5200MHz Ant1

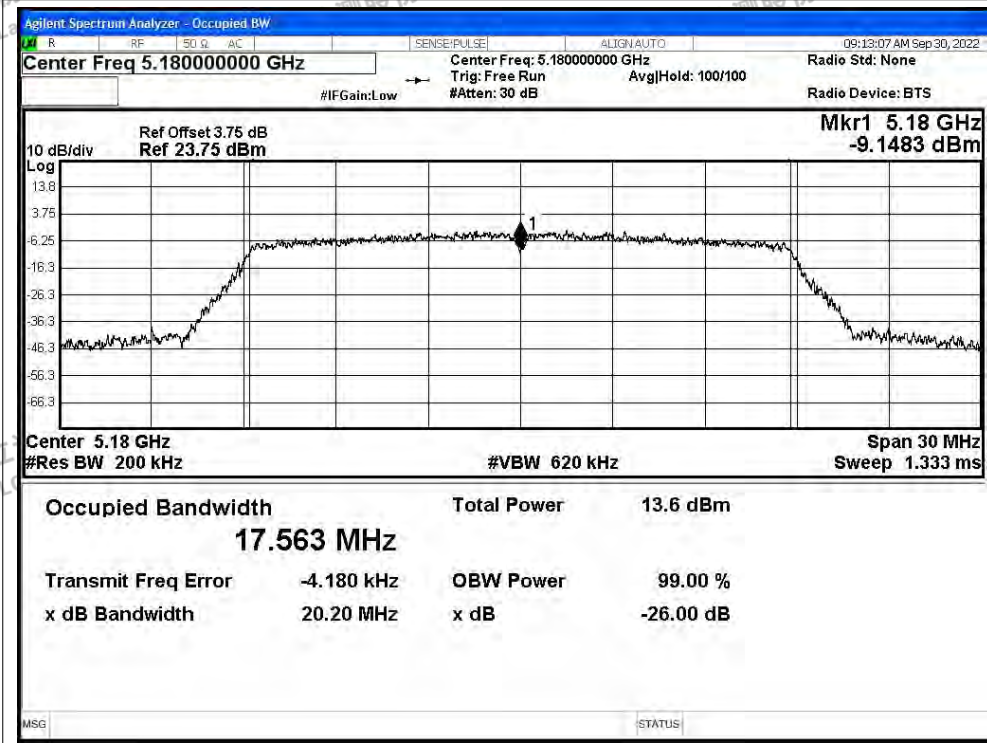




OBW NVNT a 5240MHz Ant1

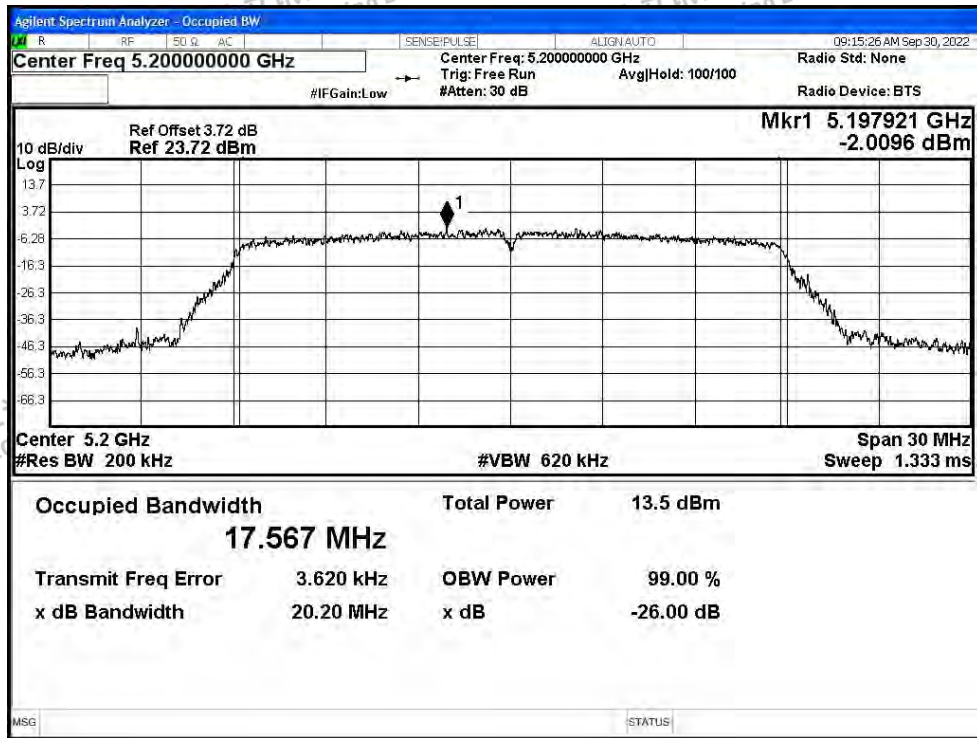


OBW NVNT n20 5180MHz Ant1

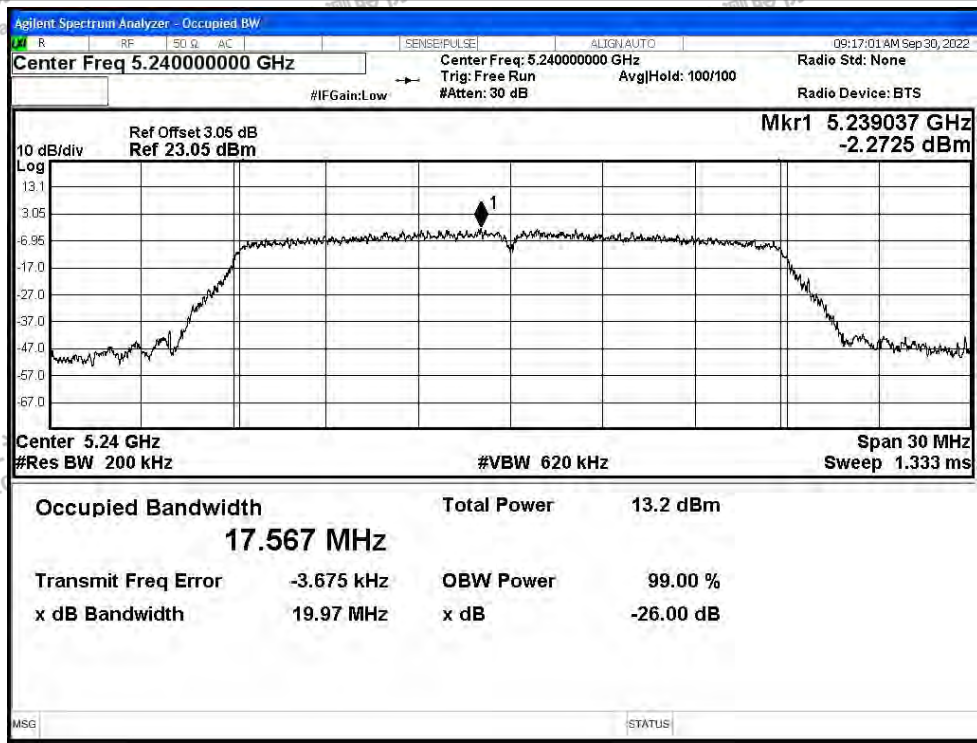




OBW NVNT n20 5200MHz Ant1

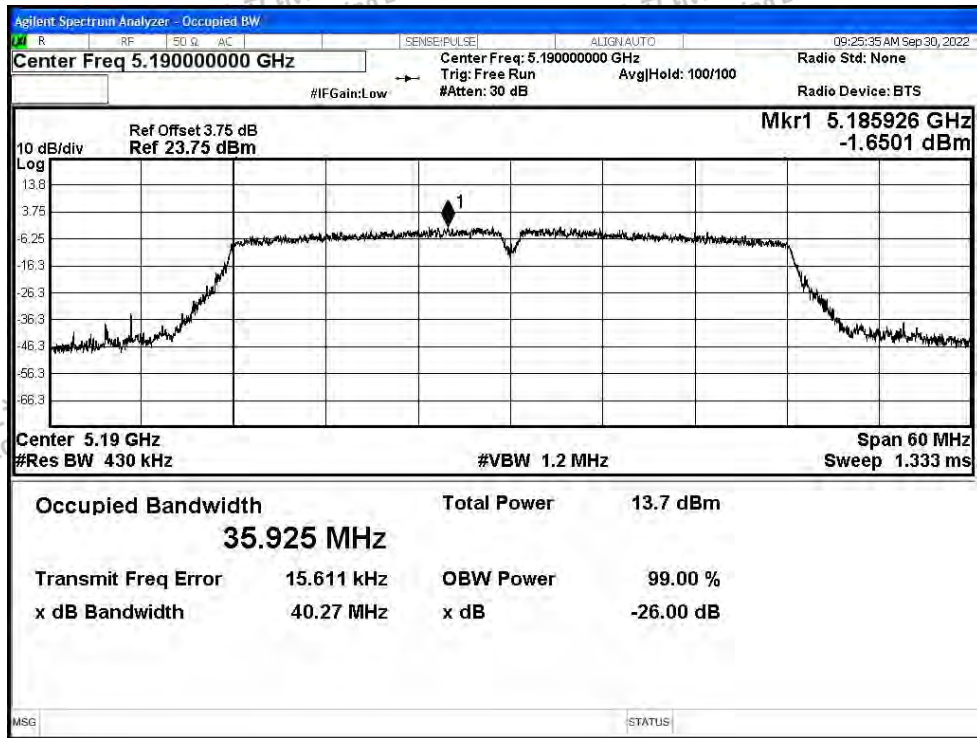


OBW NVNT n20 5240MHz Ant1

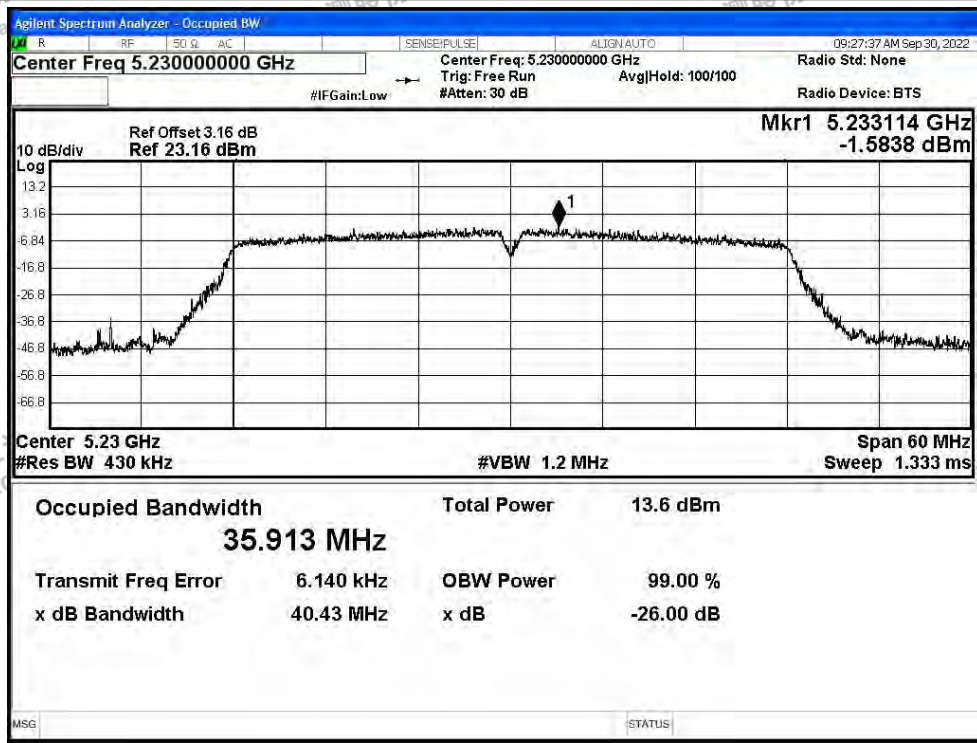




OBW NVNT n40 5190MHz Ant1

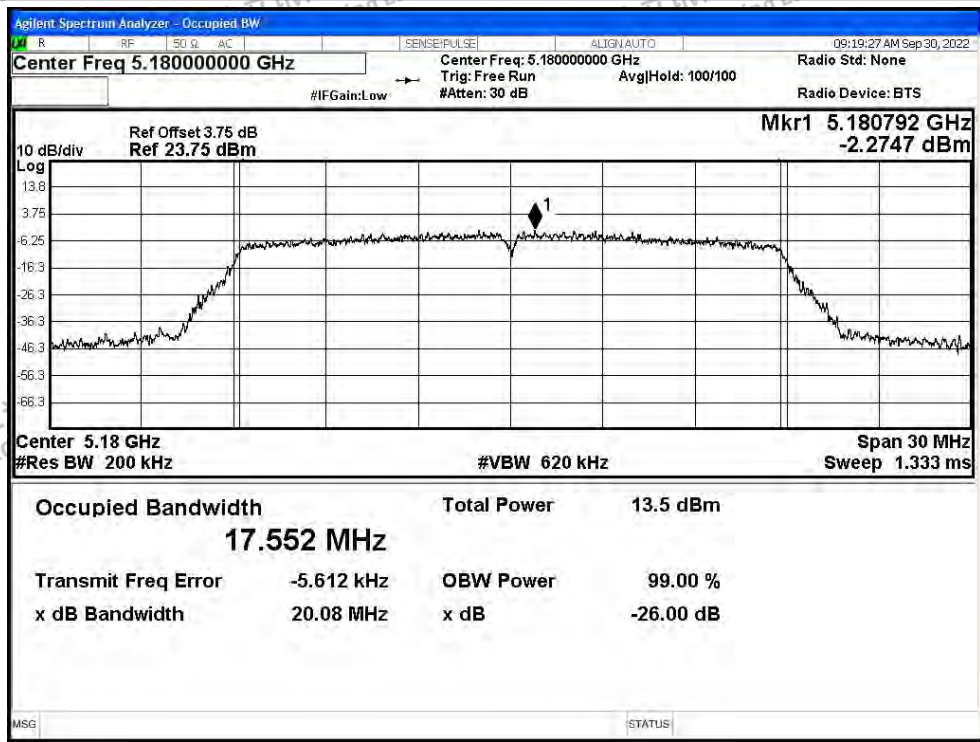


OBW NVNT n40 5230MHz Ant1

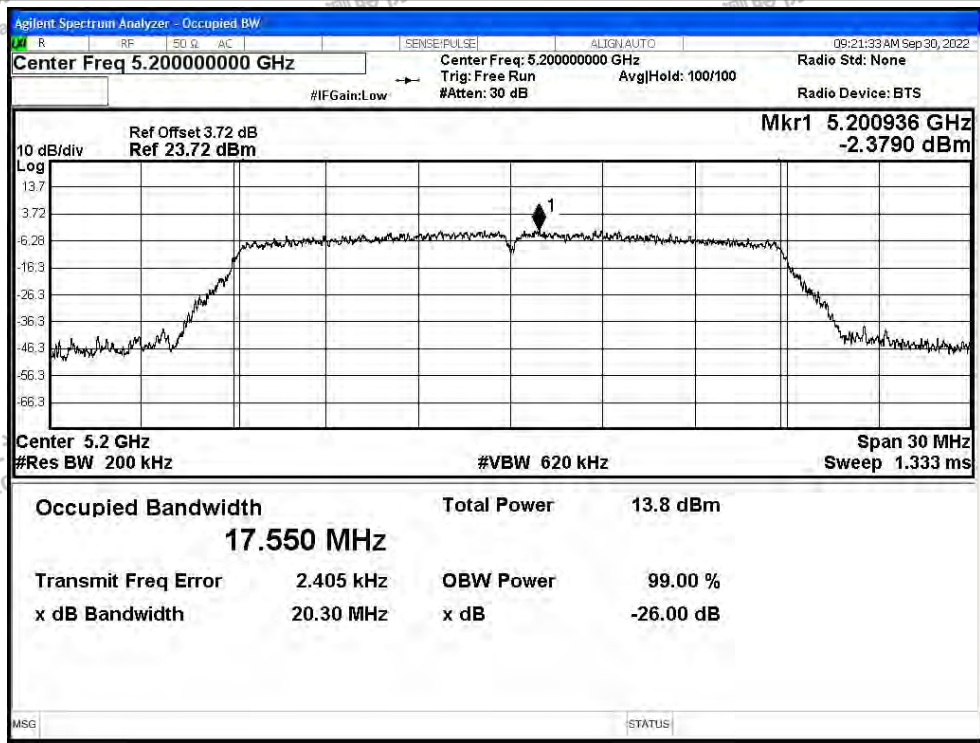




OBW NVNT ac20 5180MHz Ant1

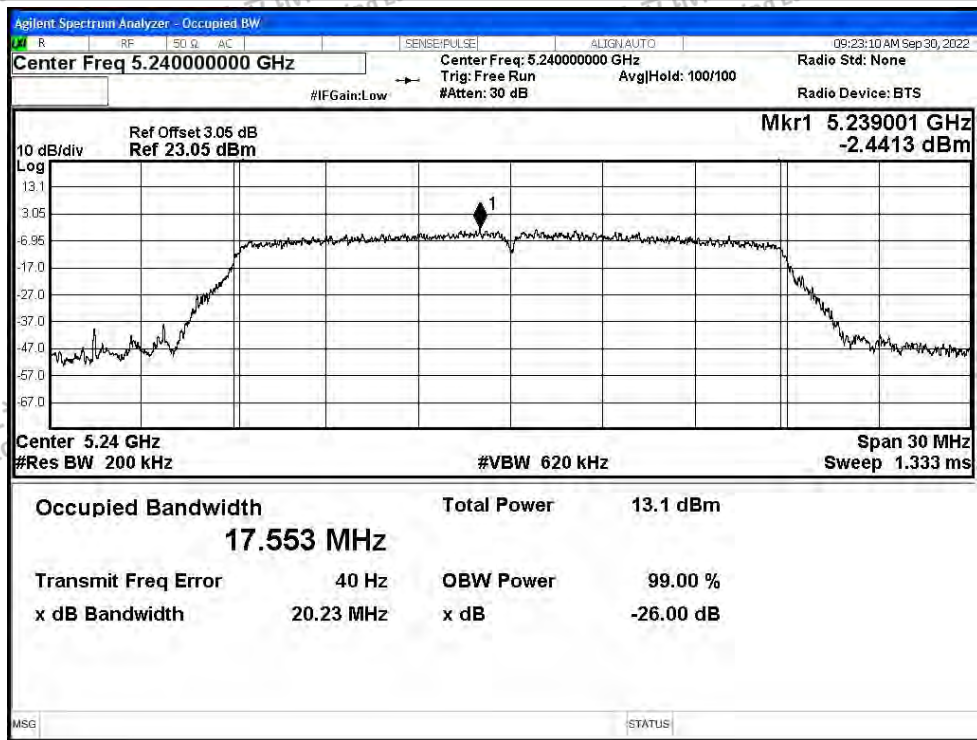


OBW NVNT ac20 5200MHz Ant1

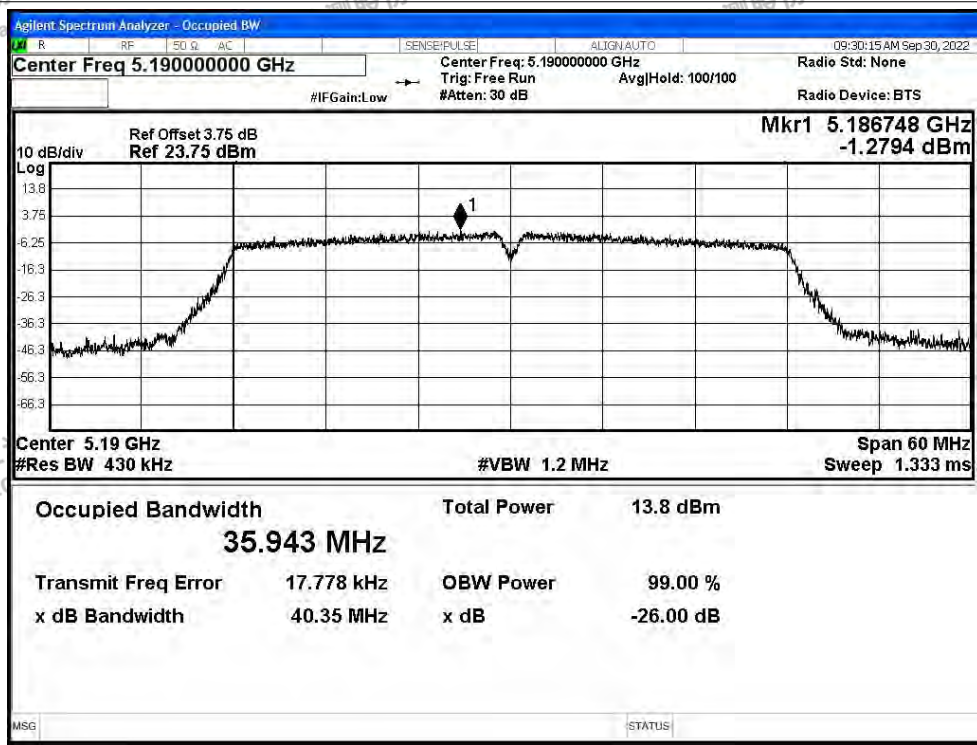




OBW NVNT ac20 5240MHz Ant1

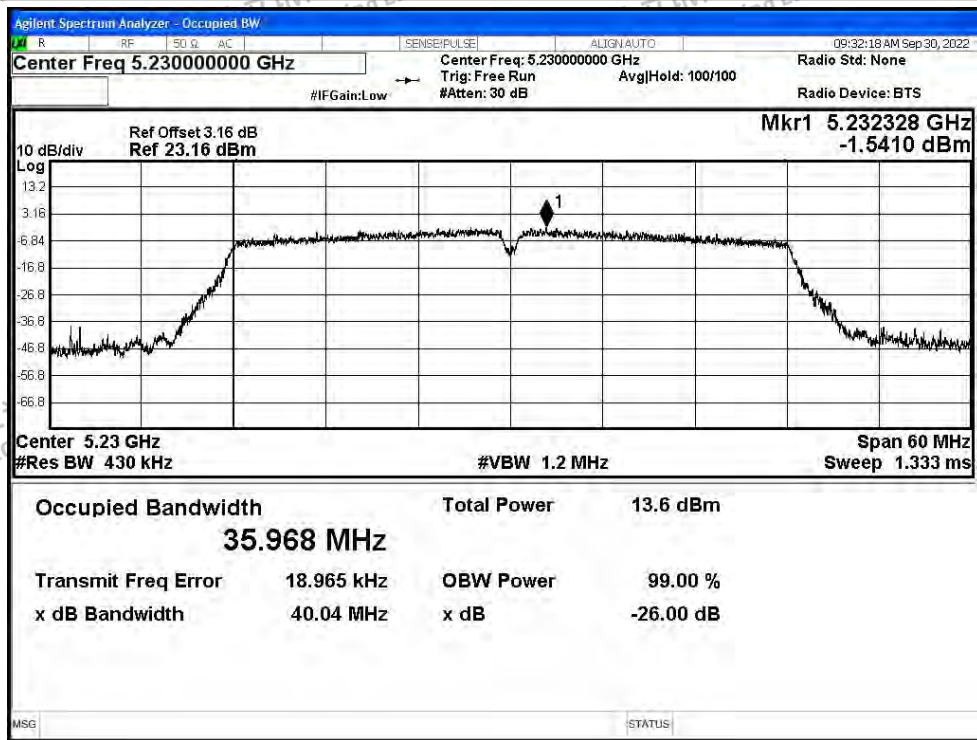


OBW NVNT ac40 5190MHz Ant1

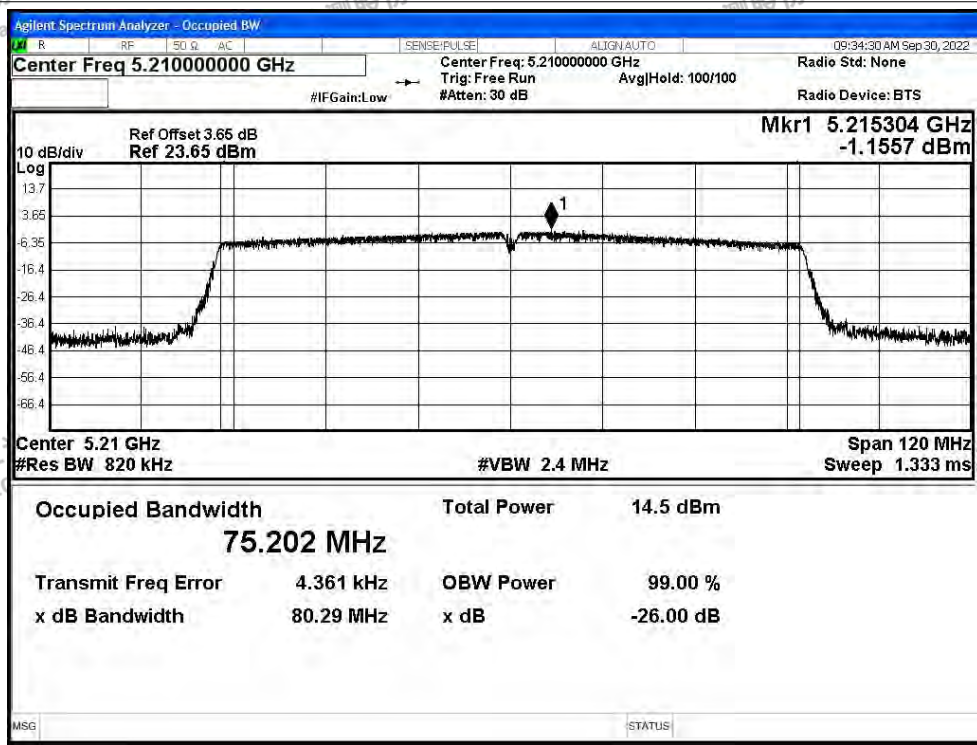




OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1





D.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	ANT Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	9.53	0	2.69	12.22	24	Pass
NVNT	a	5200	Ant0	9.33	0	2.69	12.02	24	Pass
NVNT	a	5240	Ant0	7.93	0	2.69	10.62	24	Pass
NVNT	n20	5180	Ant0	9	0	2.69	11.69	24	Pass
NVNT	n20	5200	Ant0	8.75	0	2.69	11.44	24	Pass
NVNT	n20	5240	Ant0	8.08	0	2.69	10.77	24	Pass
NVNT	n40	5190	Ant0	9.06	0	2.69	11.75	24	Pass
NVNT	n40	5230	Ant0	7.92	0	2.69	10.61	24	Pass
NVNT	ac20	5180	Ant0	8.9	0	2.69	11.59	24	Pass
NVNT	ac20	5200	Ant0	8.99	0	2.69	11.68	24	Pass
NVNT	ac20	5240	Ant0	8.1	0	2.69	10.79	24	Pass
NVNT	ac40	5190	Ant0	8.78	0	2.69	11.47	24	Pass
NVNT	ac40	5230	Ant0	7.97	0	2.69	10.66	24	Pass
NVNT	ac80	5210	Ant0	8.15	0	2.69	10.84	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	ANT Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	8.49	0	2.69	11.18	24	Pass
NVNT	a	5200	Ant1	8.44	0	2.69	11.13	24	Pass
NVNT	a	5240	Ant1	8.08	0	2.69	10.77	24	Pass
NVNT	n20	5180	Ant1	8.13	0	2.69	10.82	24	Pass
NVNT	n20	5200	Ant1	8.14	0	2.69	10.83	24	Pass
NVNT	n20	5240	Ant1	7.79	0	2.69	10.48	24	Pass
NVNT	n40	5190	Ant1	8.08	0	2.69	10.77	24	Pass
NVNT	n40	5230	Ant1	7.87	0	2.69	10.56	24	Pass
NVNT	ac20	5180	Ant1	8.11	0	2.69	10.8	24	Pass
NVNT	ac20	5200	Ant1	8.42	0	2.69	11.11	24	Pass
NVNT	ac20	5240	Ant1	7.71	0	2.69	10.4	24	Pass
NVNT	ac40	5190	Ant1	8.21	0	2.69	10.9	24	Pass
NVNT	ac40	5230	Ant1	7.94	0	2.69	10.63	24	Pass
NVNT	ac80	5210	Ant1	7.91	0	2.69	10.6	24	Pass



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FCC MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	9	8.13	11.60	24	Pass
NVNT	n20	5200	8.75	8.14	11.47	24	Pass
NVNT	n20	5240	8.08	7.79	10.95	24	Pass
NVNT	n40	5190	9.06	8.08	11.61	24	Pass
NVNT	n40	5230	7.92	7.87	10.91	24	Pass
NVNT	ac20	5180	8.9	8.11	11.53	24	Pass
NVNT	ac20	5200	8.99	8.42	11.72	24	Pass
NVNT	ac20	5240	8.1	7.71	10.92	24	Pass
NVNT	ac40	5190	8.78	8.21	11.51	24	Pass
NVNT	ac40	5230	7.97	7.94	10.97	24	Pass
NVNT	ac80	5210	8.15	7.91	11.04	24	Pass

IC MIMO

Condition	Mode	Frequency (MHz)	EIRP Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	11.69	10.82	14.29	24	Pass
NVNT	n20	5200	11.44	10.83	14.16	24	Pass
NVNT	n20	5240	10.77	10.48	13.64	24	Pass
NVNT	n40	5190	11.75	10.77	14.30	24	Pass
NVNT	n40	5230	10.61	10.56	13.60	24	Pass
NVNT	ac20	5180	11.59	10.8	14.22	24	Pass
NVNT	ac20	5200	11.68	11.11	14.41	24	Pass
NVNT	ac20	5240	10.79	10.4	13.61	24	Pass
NVNT	ac40	5190	11.47	10.9	14.20	24	Pass
NVNT	ac40	5230	10.66	10.63	13.66	24	Pass
NVNT	ac80	5210	10.84	10.6	13.73	24	Pass



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D.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	ANT Gain (dBi)	EIRP PSD (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Verdict
NVNT	a	5180	Ant0	-2.12	0	2.69	0.57	11	10	Pass
NVNT	a	5200	Ant0	-2.16	0	2.69	0.53	11	10	Pass
NVNT	a	5240	Ant0	-3.32	0	2.69	-0.63	11	10	Pass
NVNT	n20	5180	Ant0	-2.69	0	2.69	0	11	10	Pass
NVNT	n20	5200	Ant0	-2.97	0	2.69	-0.28	11	10	Pass
NVNT	n20	5240	Ant0	-3.69	0	2.69	-1	11	10	Pass
NVNT	n40	5190	Ant0	-5.62	0	2.69	-2.93	11	10	Pass
NVNT	n40	5230	Ant0	-6.46	0	2.69	-3.77	11	10	Pass
NVNT	ac20	5180	Ant0	-2.79	0	2.69	-0.1	11	10	Pass
NVNT	ac20	5200	Ant0	-2.64	0	2.69	0.05	11	10	Pass
NVNT	ac20	5240	Ant0	-3.94	0	2.69	-1.25	11	10	Pass
NVNT	ac40	5190	Ant0	-5.59	0	2.69	-2.9	11	10	Pass
NVNT	ac40	5230	Ant0	-6.54	0	2.69	-3.85	11	10	Pass
NVNT	ac80	5210	Ant0	-9.14	0	2.69	-6.45	11	10	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	ANT Gain (dBi)	EIRP PSD (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-3.23	0	2.69	-0.54	11	10	Pass
NVNT	a	5200	Ant1	-2.96	0	2.69	-0.27	11	10	Pass
NVNT	a	5240	Ant1	-3.49	0	2.69	-0.8	11	10	Pass
NVNT	n20	5180	Ant1	-3.2	0	2.69	-0.51	11	10	Pass
NVNT	n20	5200	Ant1	-2.99	0	2.69	-0.3	11	10	Pass
NVNT	n20	5240	Ant1	-3.46	0	2.69	-0.77	11	10	Pass
NVNT	n40	5190	Ant1	-6.36	0	2.69	-3.67	11	10	Pass
NVNT	n40	5230	Ant1	-6.44	0	2.69	-3.75	11	10	Pass
NVNT	ac20	5180	Ant1	-3.67	0	2.69	-0.98	11	10	Pass
NVNT	ac20	5200	Ant1	-3.13	0	2.69	-0.44	11	10	Pass
NVNT	ac20	5240	Ant1	-3.92	0	2.69	-1.23	11	10	Pass
NVNT	ac40	5190	Ant1	-6.26	0	2.69	-3.57	11	10	Pass
NVNT	ac40	5230	Ant1	-6.55	0	2.69	-3.86	11	10	Pass
NVNT	ac80	5210	Ant1	-8.86	0	2.69	-6.17	11	10	Pass



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FCC MIMO

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)			FCC Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	-2.69	-3.2	0.07	11	Pass
NVNT	n20	5200	-2.97	-2.99	0.03	11	Pass
NVNT	n20	5240	-3.69	-3.46	-0.56	11	Pass
NVNT	n40	5190	-5.62	-6.36	-2.96	11	Pass
NVNT	n40	5230	-6.46	-6.44	-3.44	11	Pass
NVNT	ac20	5180	-2.79	-3.67	-0.20	11	Pass
NVNT	ac20	5200	-2.64	-3.13	0.13	11	Pass
NVNT	ac20	5240	-3.94	-3.92	-0.92	11	Pass
NVNT	ac40	5190	-5.59	-6.26	-2.90	11	Pass
NVNT	ac40	5230	-6.54	-6.55	-3.53	11	Pass
NVNT	ac80	5210	-9.14	-8.86	-5.99	11	Pass

IC MIMO

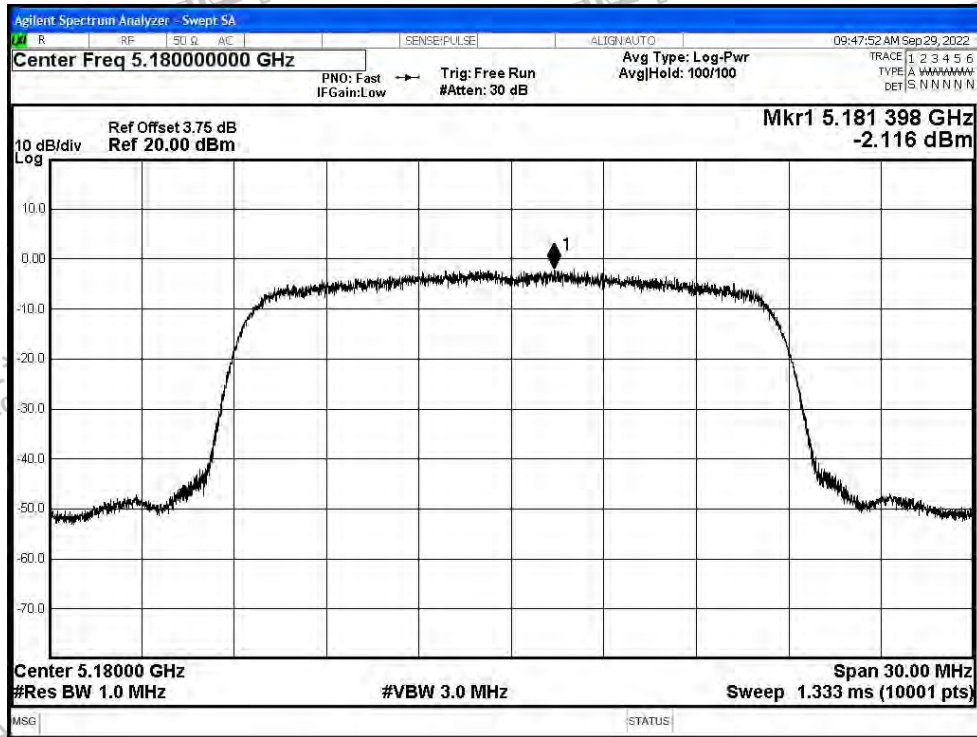
Condition	Mode	Frequency (MHz)	EIRP PSD (dBm)			IC Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	0	-0.51	2.76	10	Pass
NVNT	n20	5200	-0.28	-0.3	2.72	10	Pass
NVNT	n20	5240	-1	-0.77	2.13	10	Pass
NVNT	n40	5190	-2.93	-3.67	-0.27	10	Pass
NVNT	n40	5230	-3.77	-3.75	-0.75	10	Pass
NVNT	ac20	5180	-0.1	-0.98	2.49	10	Pass
NVNT	ac20	5200	0.05	-0.44	2.82	10	Pass
NVNT	ac20	5240	-1.25	-1.23	1.77	10	Pass
NVNT	ac40	5190	-2.9	-3.57	-0.21	10	Pass
NVNT	ac40	5230	-3.85	-3.86	-0.84	10	Pass
NVNT	ac80	5210	-6.45	-6.17	-3.30	10	Pass



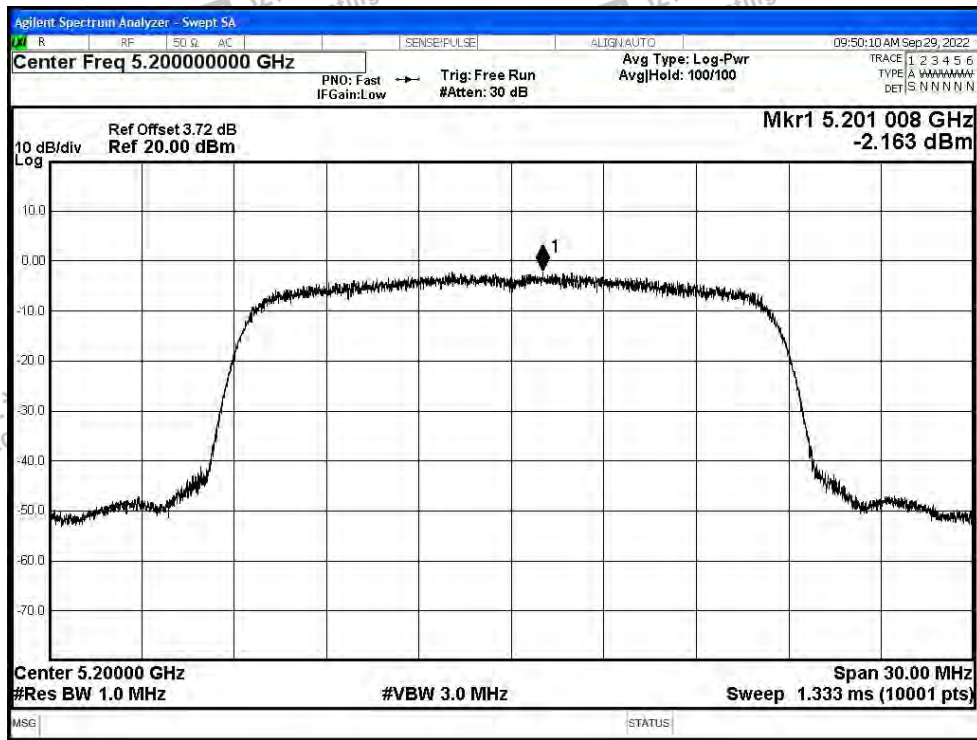


Test Graphs

PSD NVNT a 5180MHz Ant0

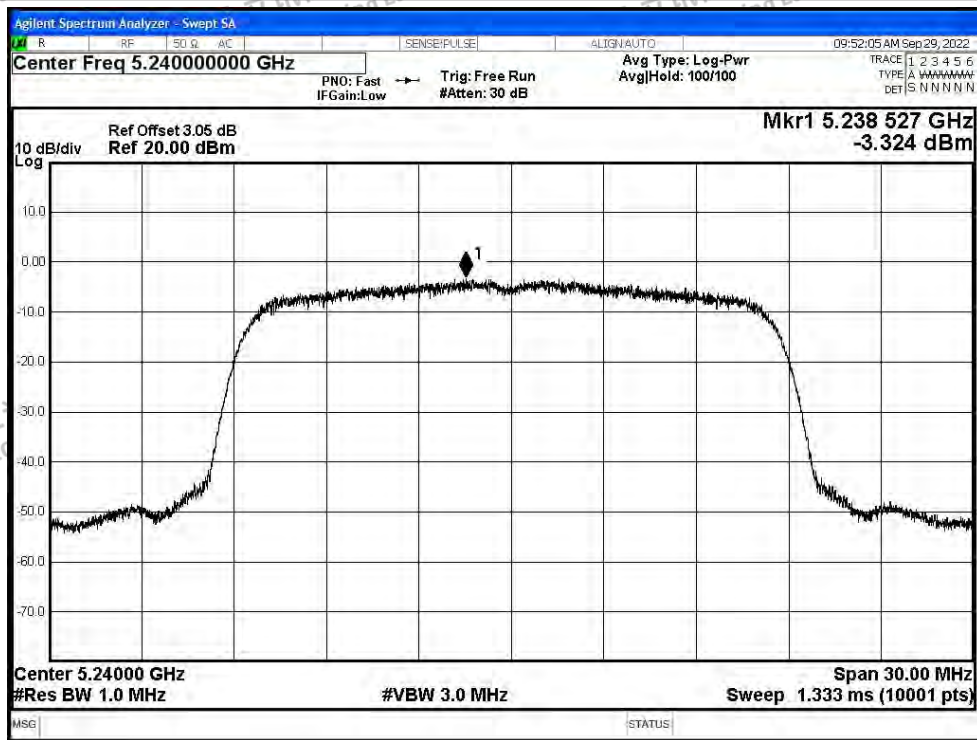


PSD NVNT a 5200MHz Ant0

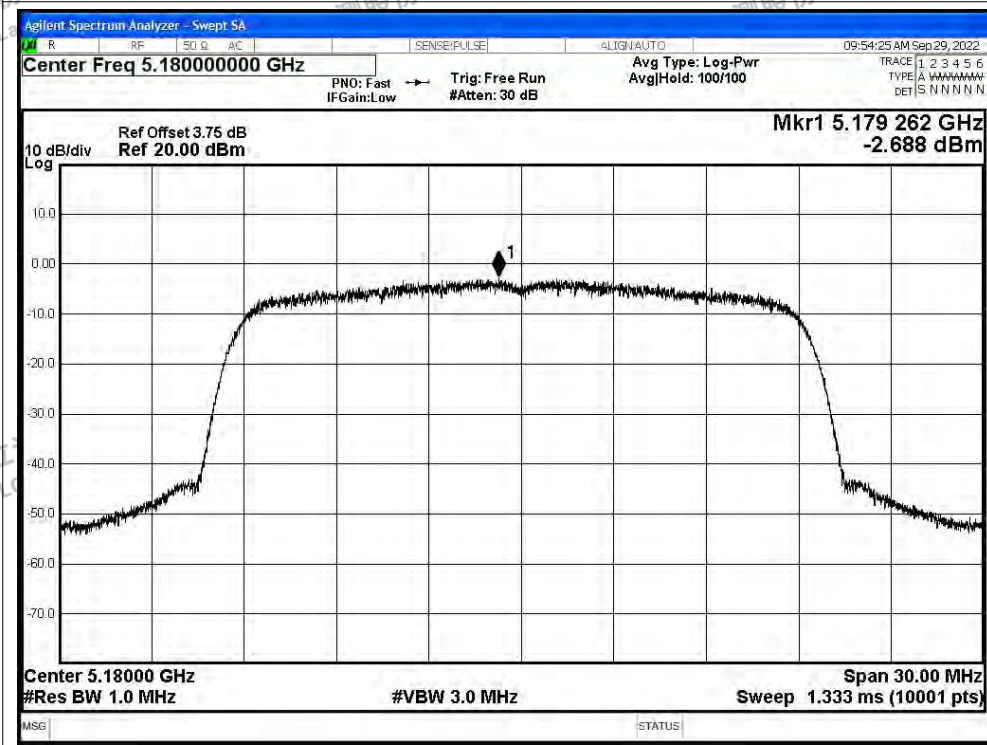




PSD NVNT a 5240MHz Ant0

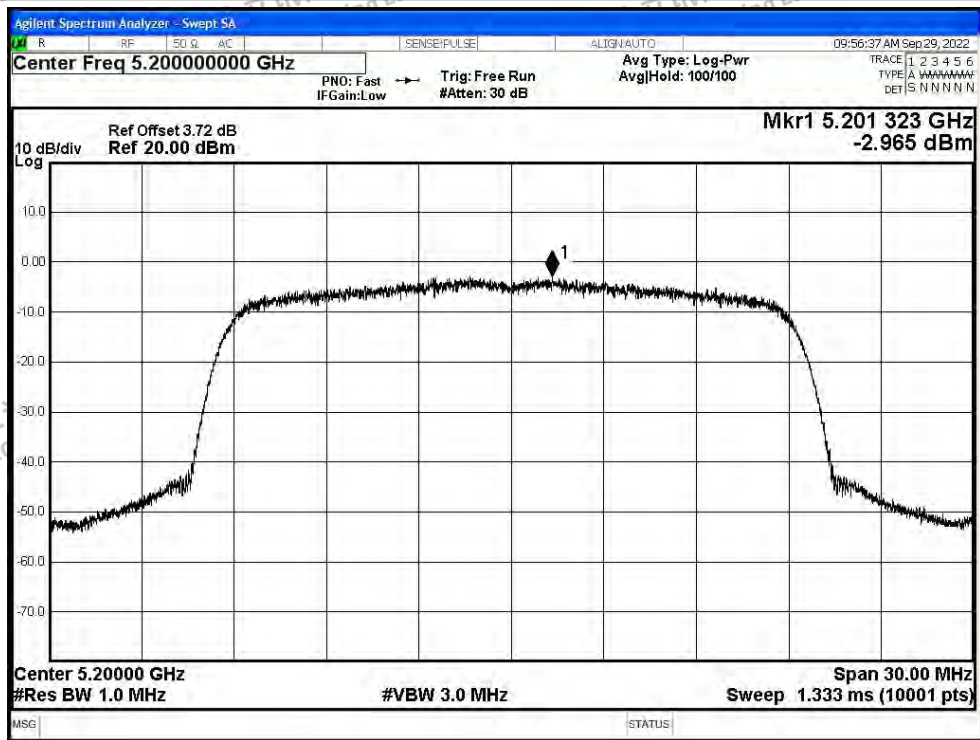


PSD NVNT n20 5180MHz Ant0

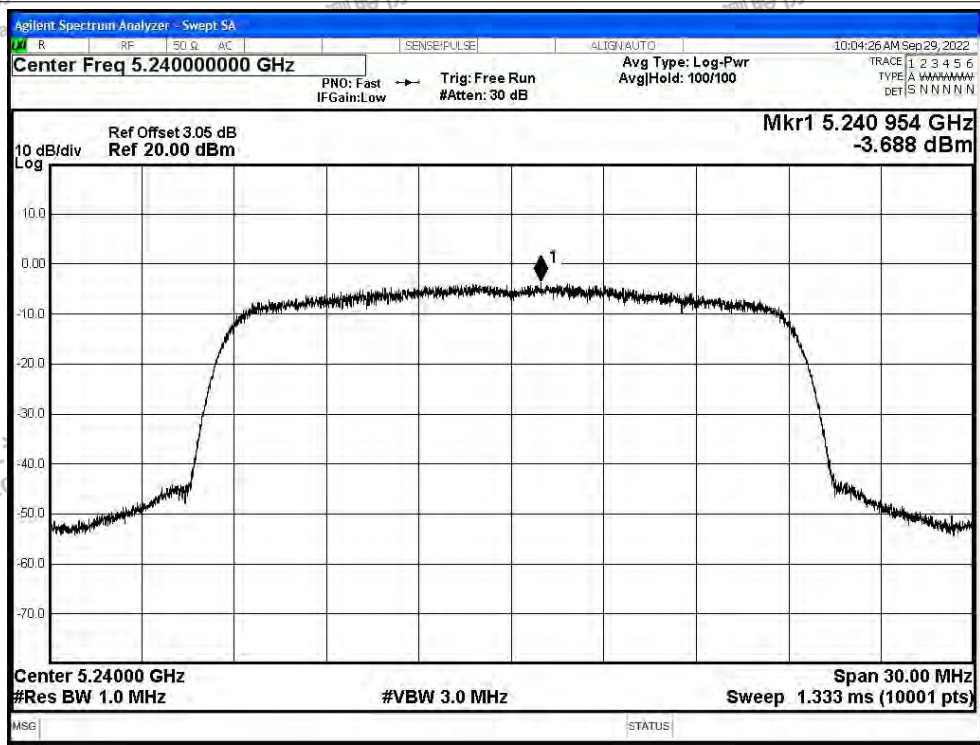




PSD NVNT n20 5200MHz Ant0

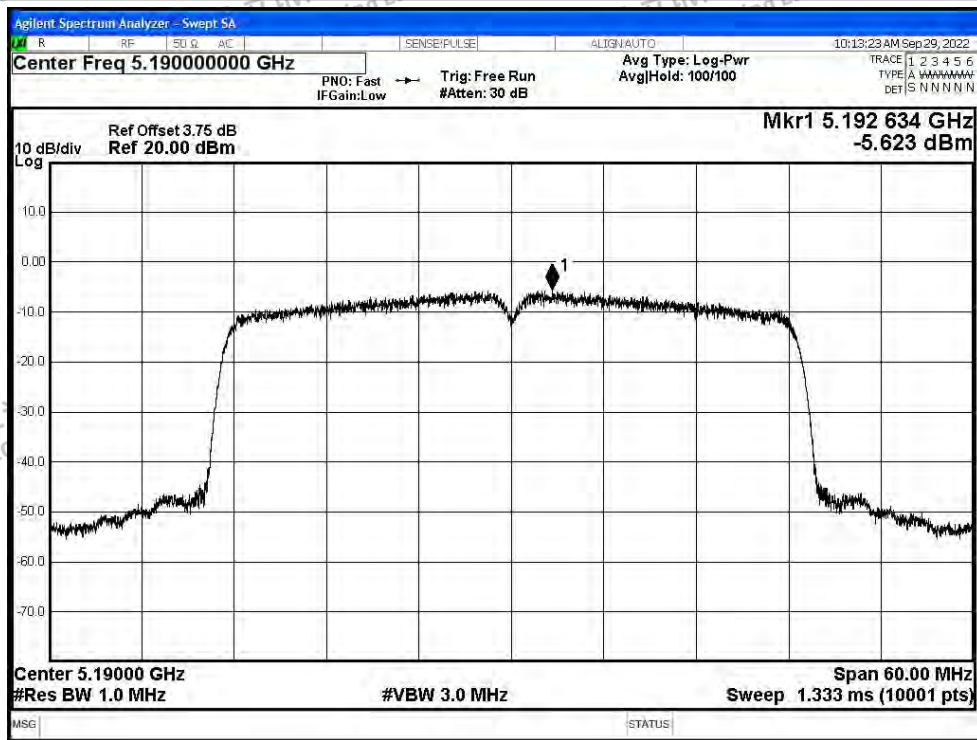


PSD NVNT n20 5240MHz Ant0

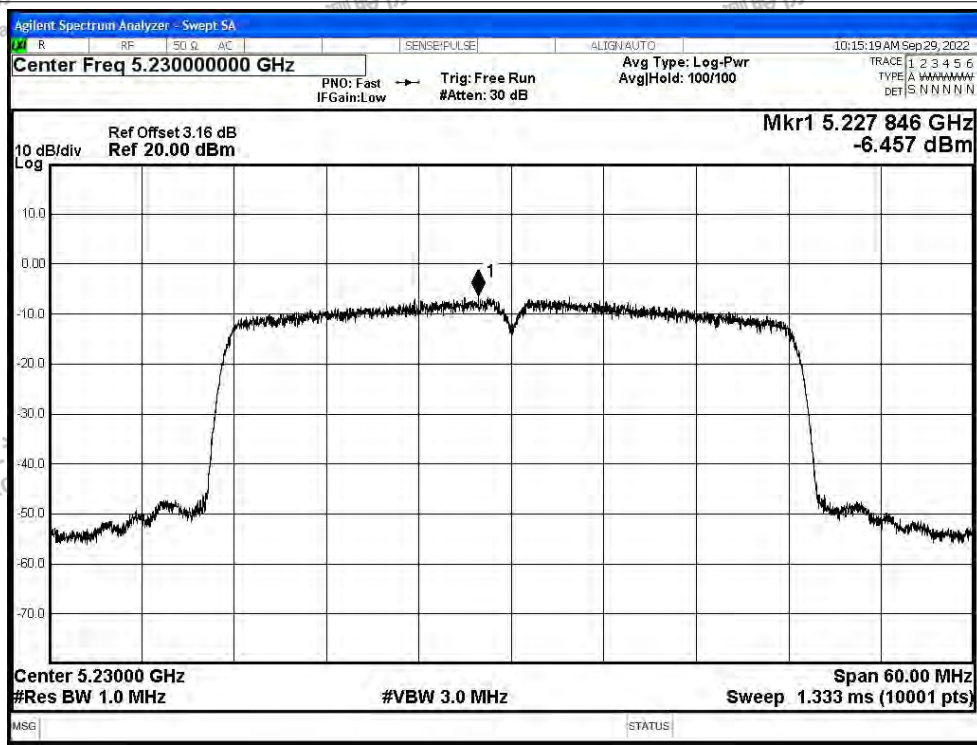


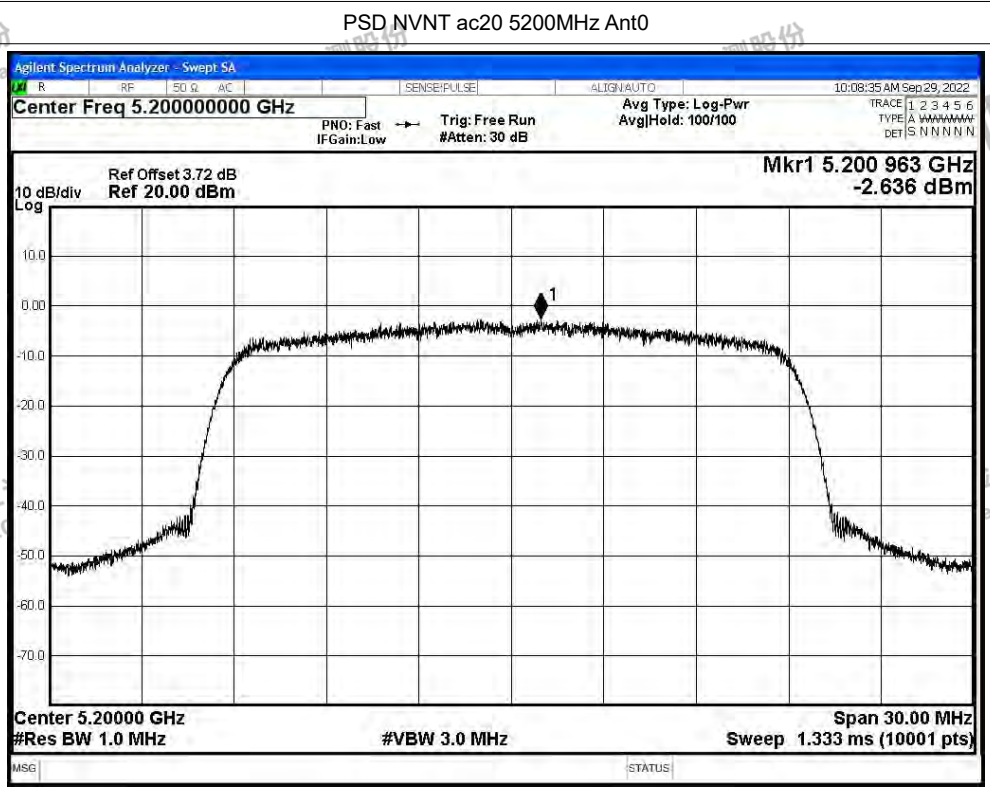
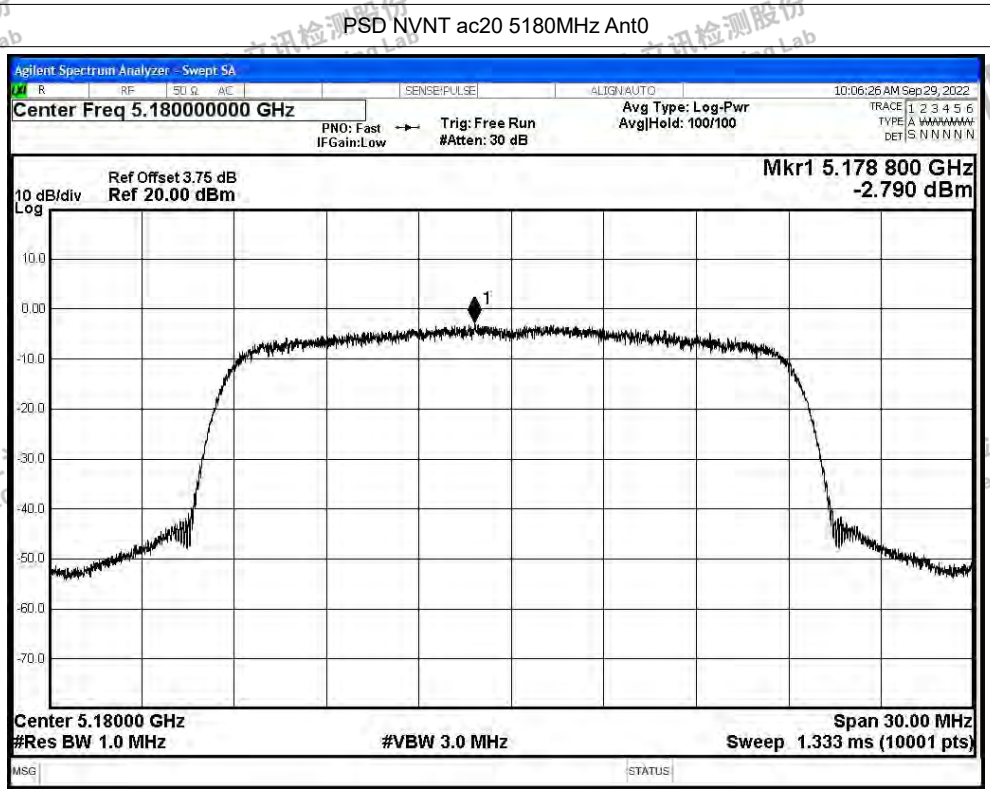


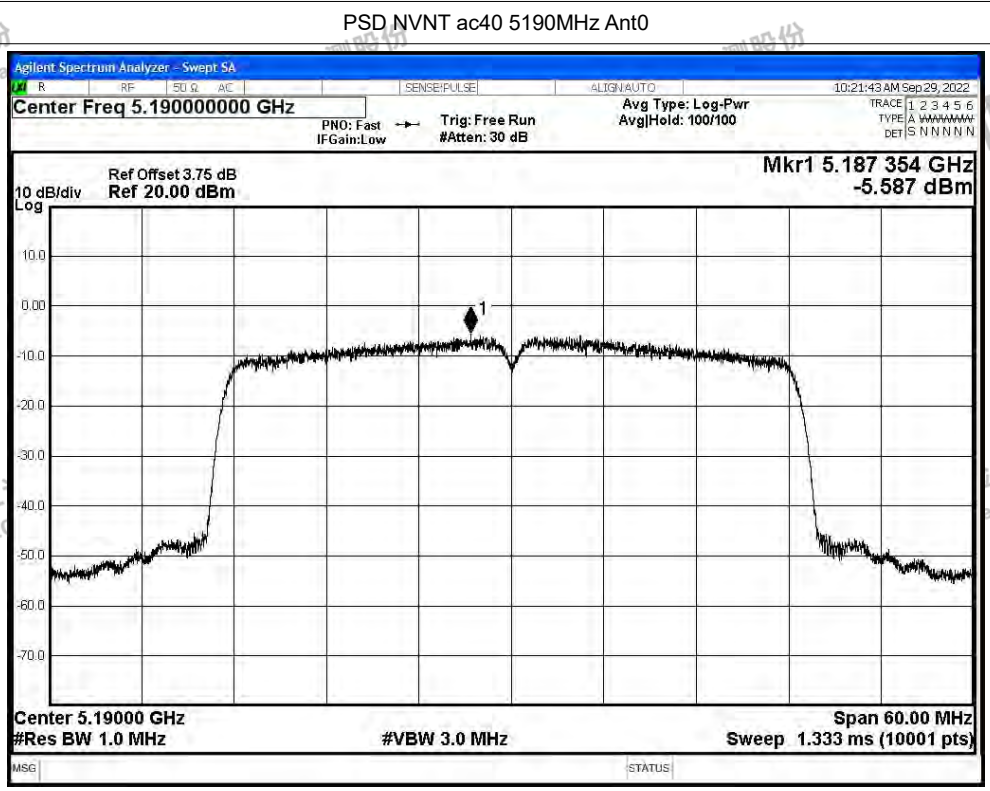
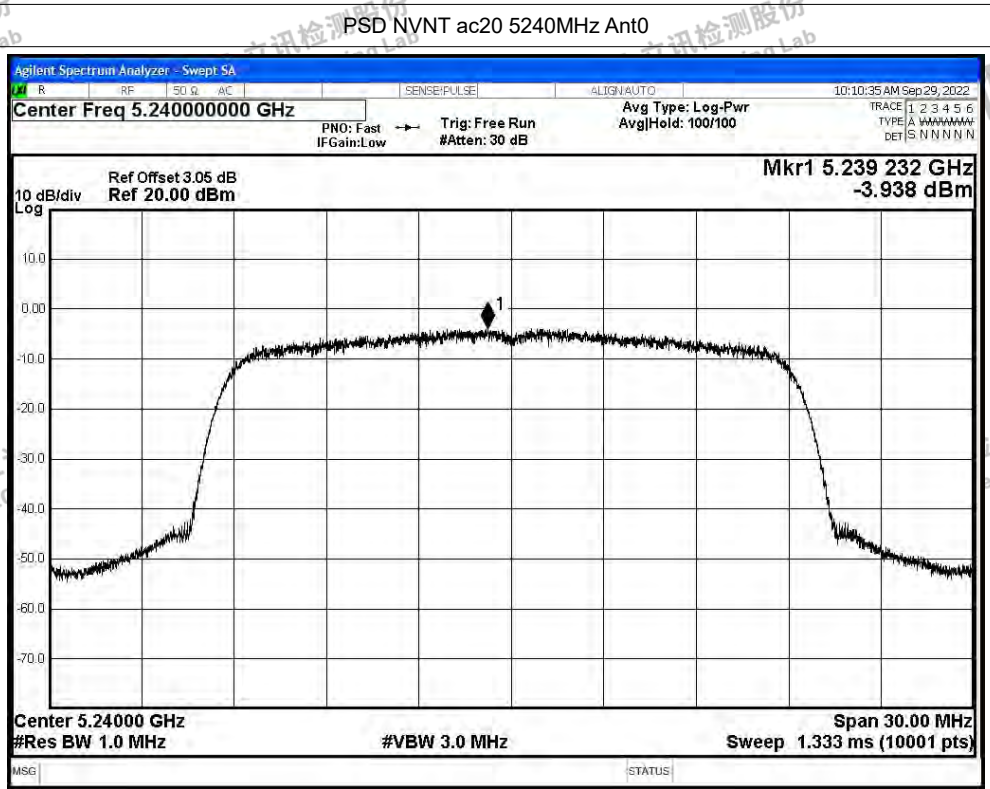
PSD NVNT n40 5190MHz Ant0

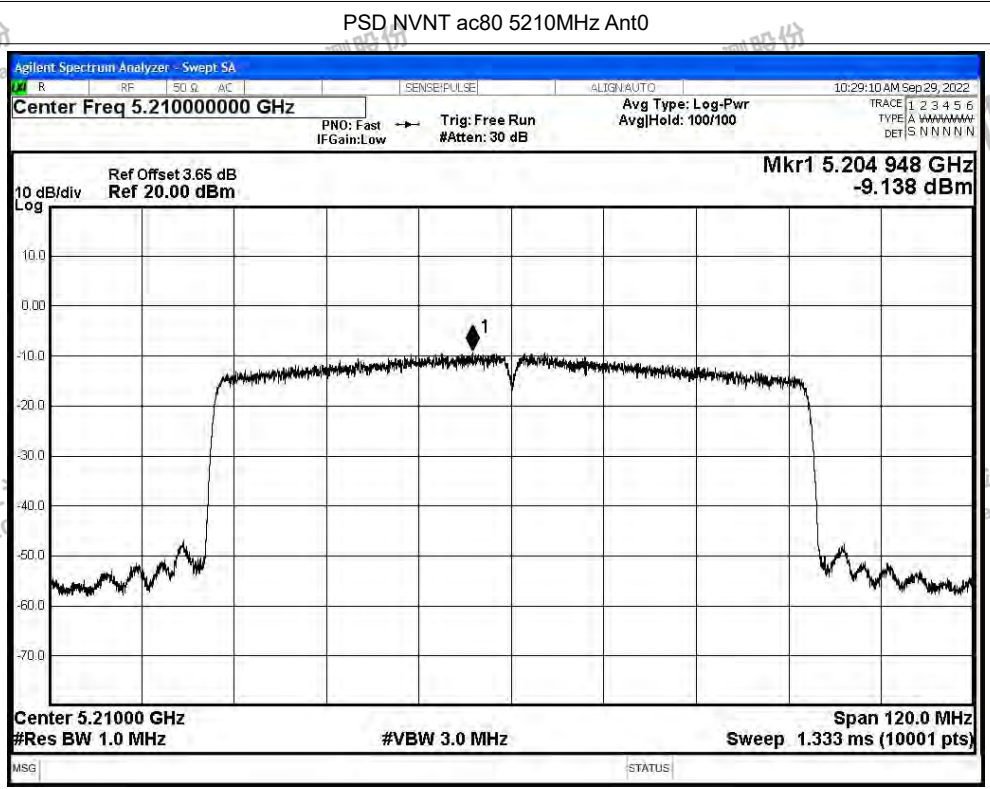
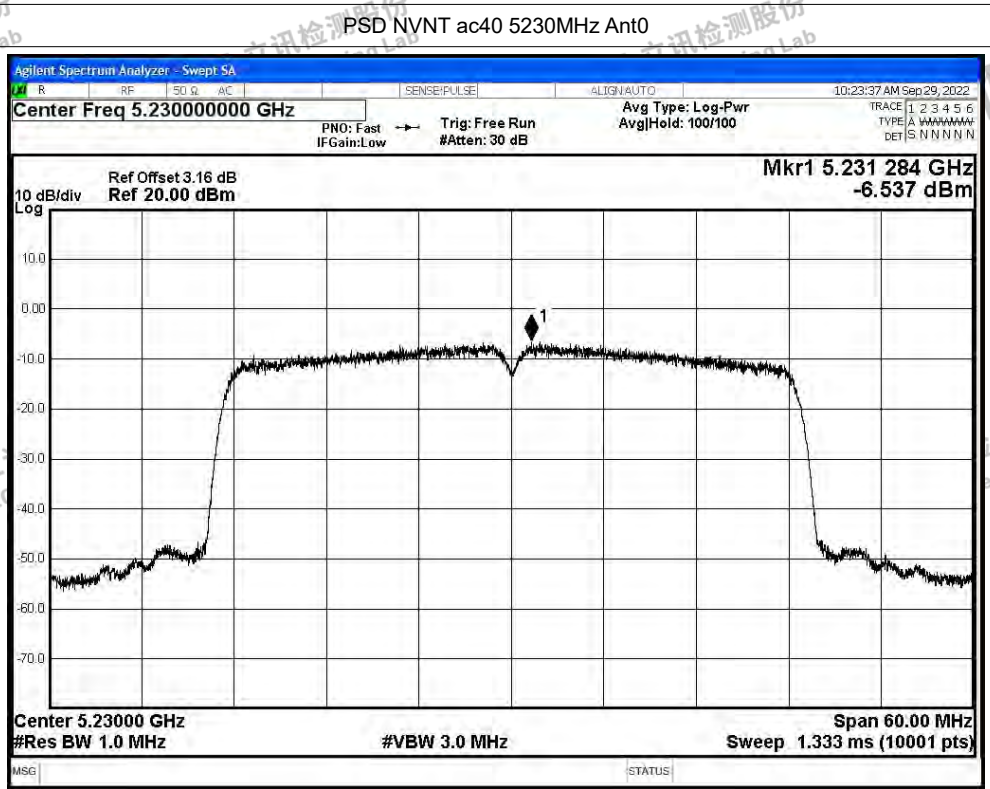


PSD NVNT n40 5230MHz Ant0





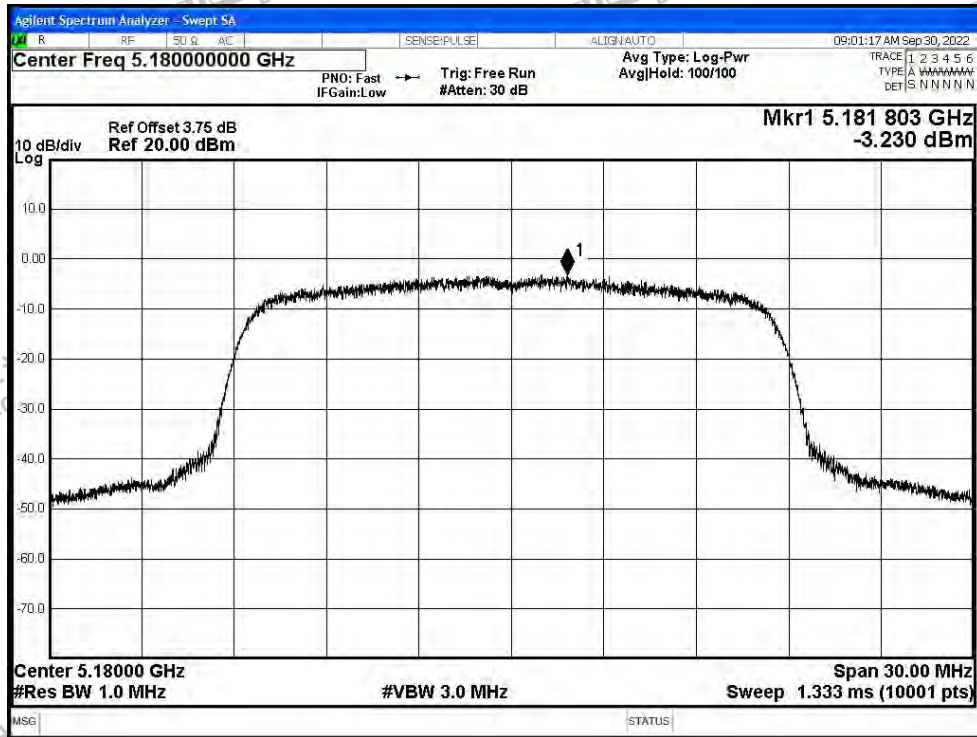




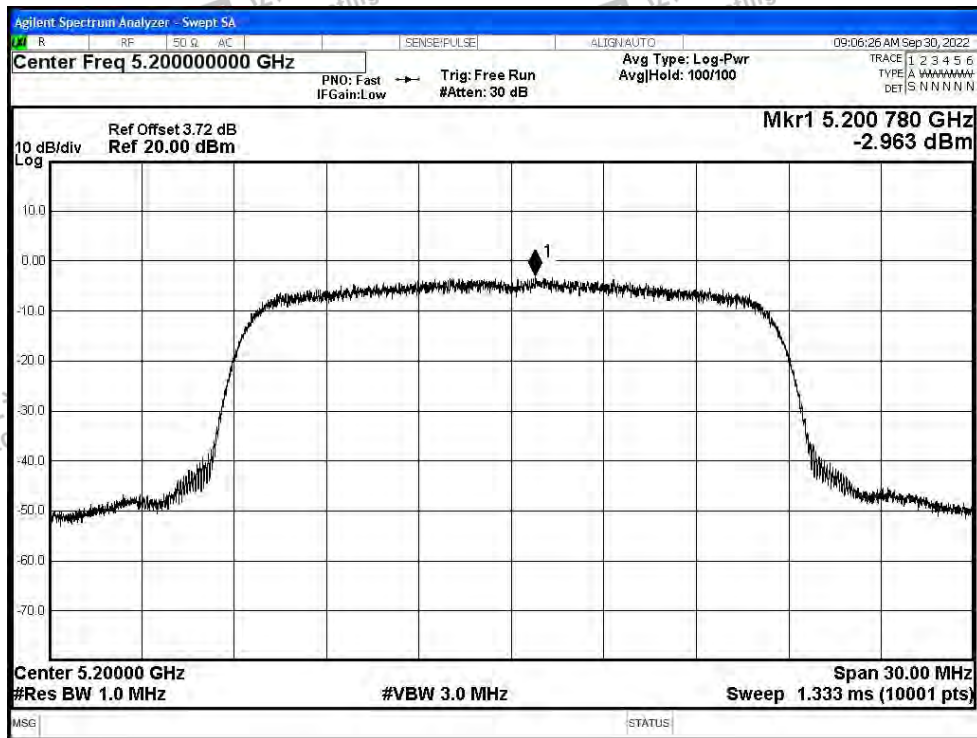


Test Graphs

PSD NVNT a 5180MHz Ant1

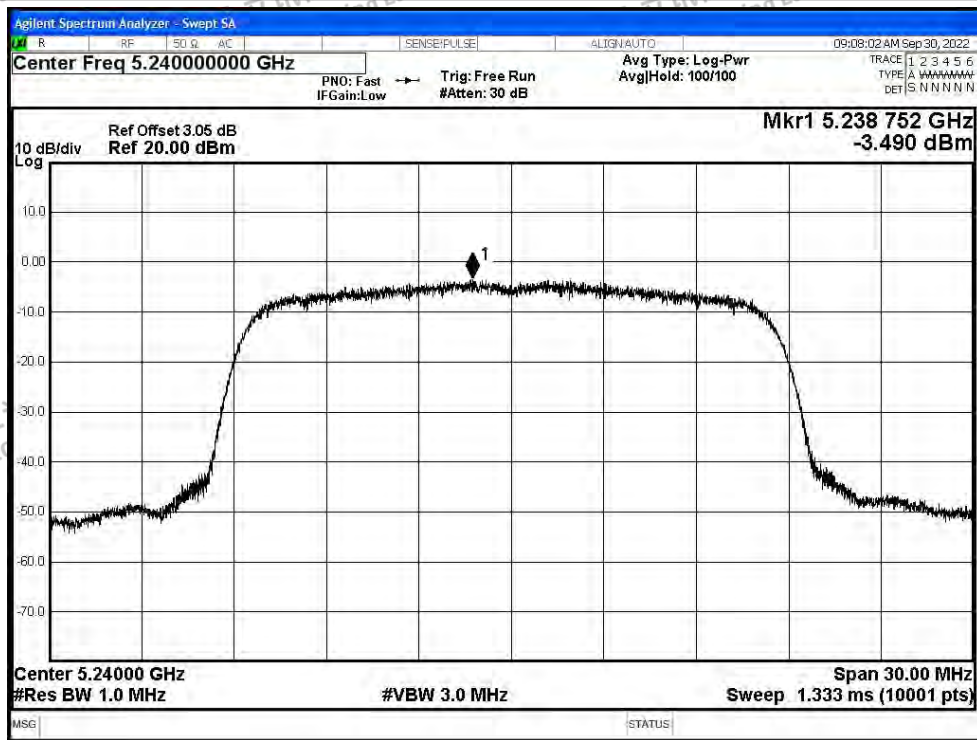


PSD NVNT a 5200MHz Ant1

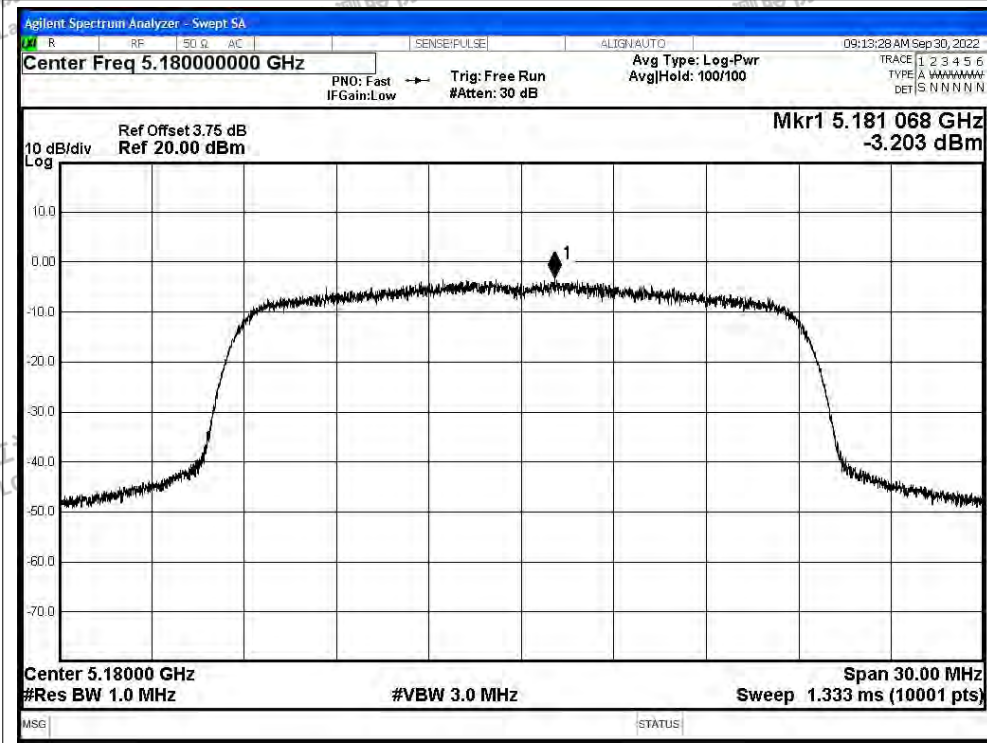




PSD NVNT a 5240MHz Ant1

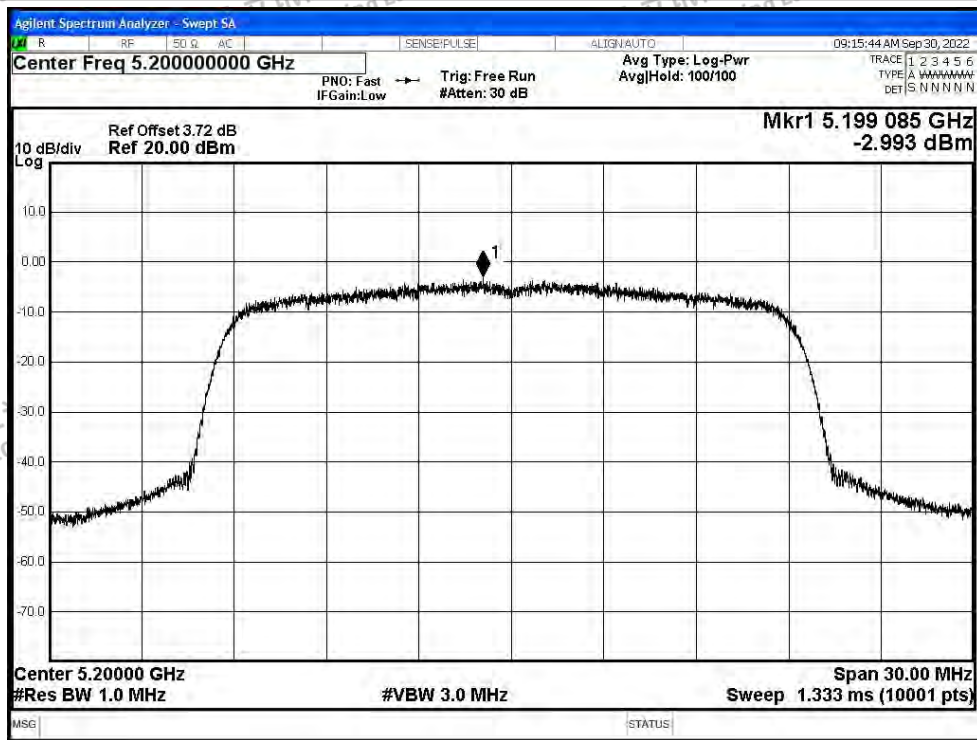


PSD NVNT n20 5180MHz Ant1

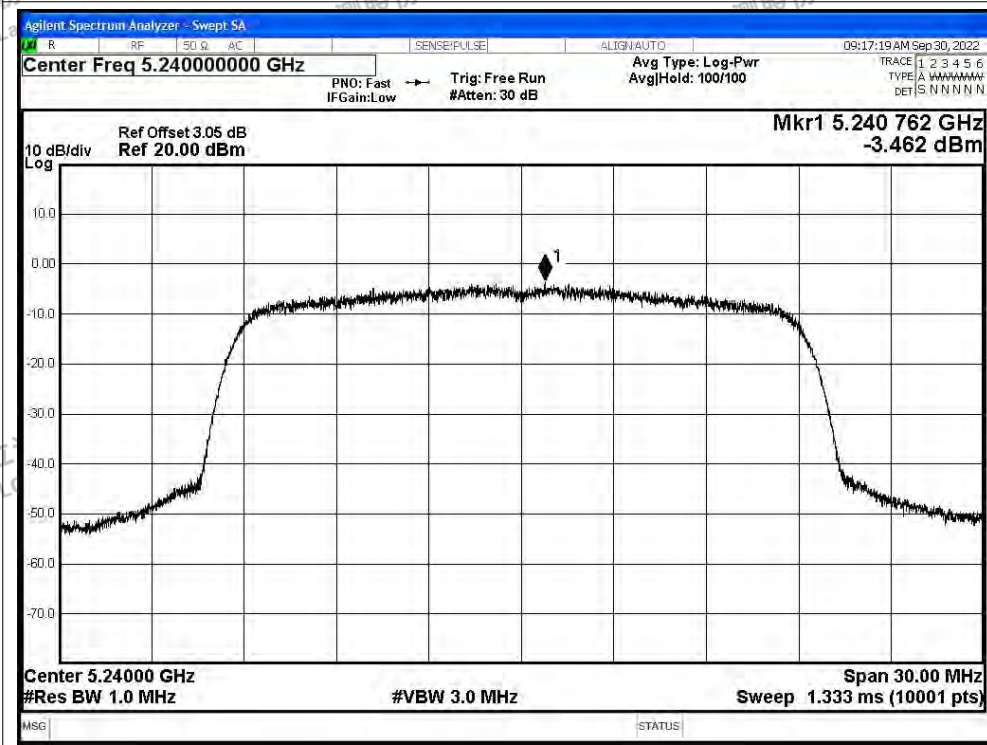




PSD NVNT n20 5200MHz Ant1

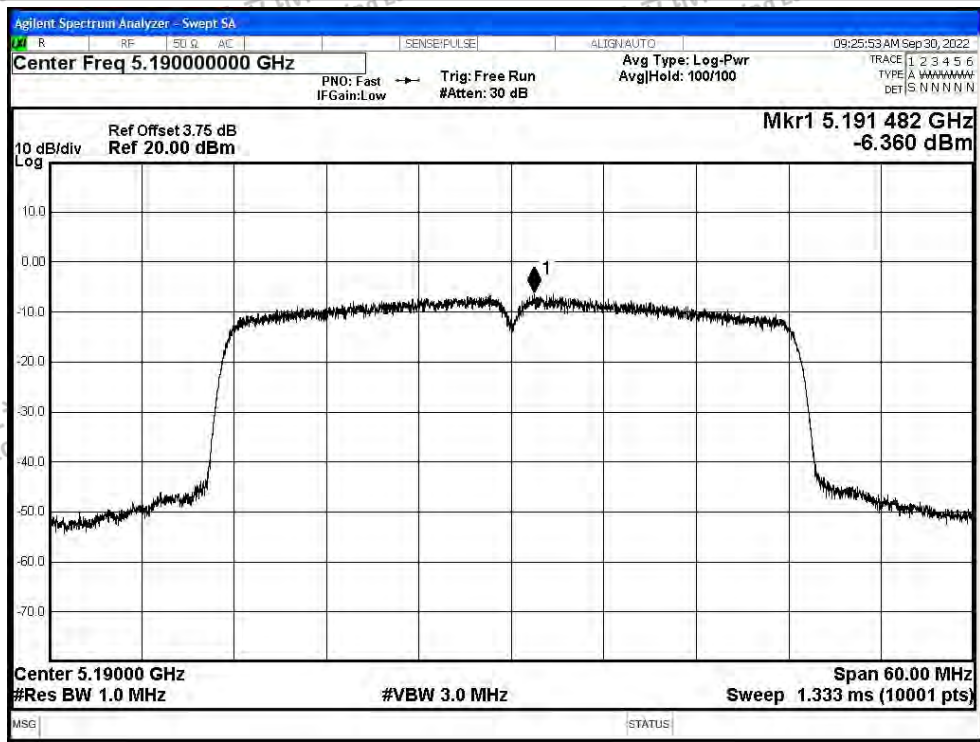


PSD NVNT n20 5240MHz Ant1

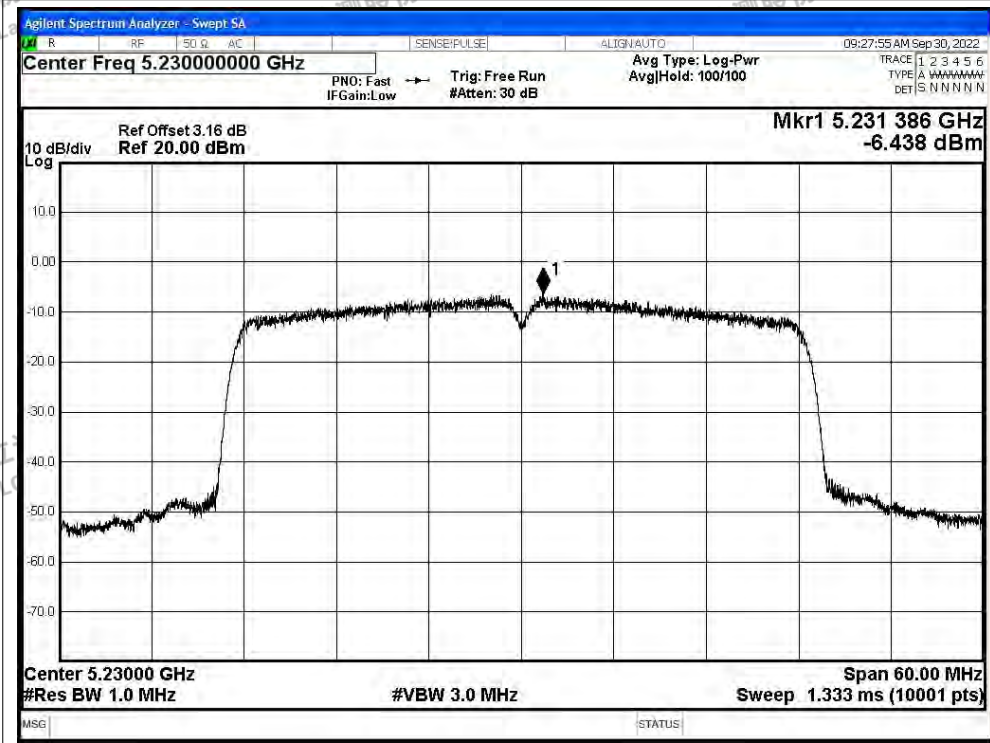


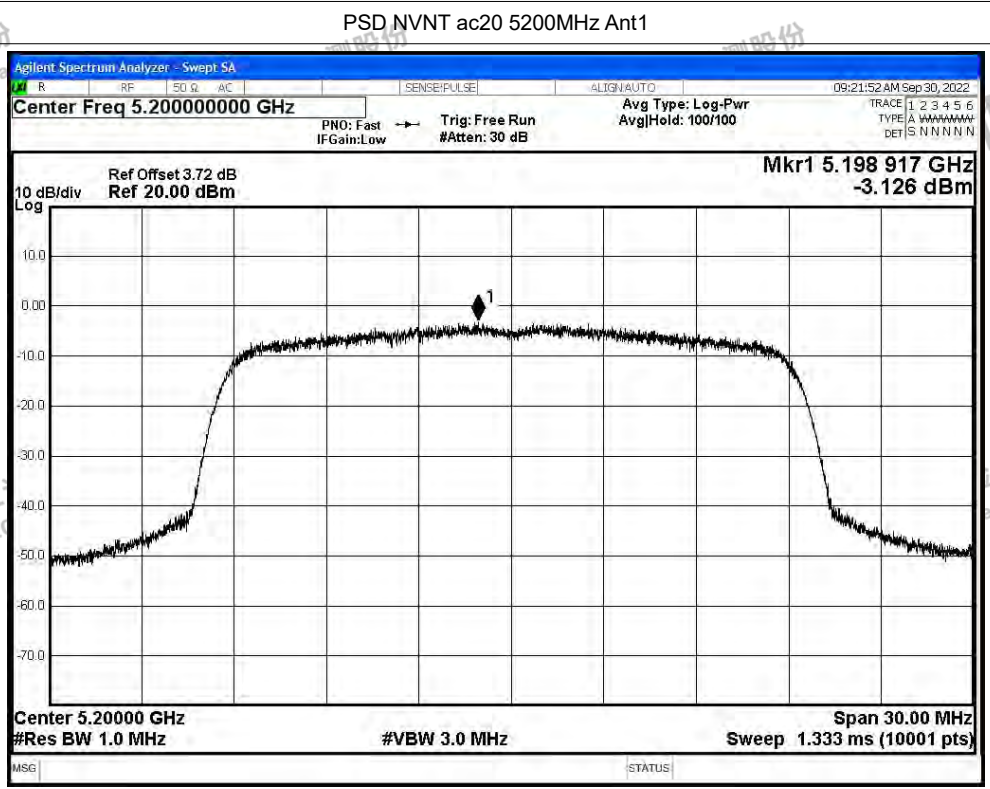
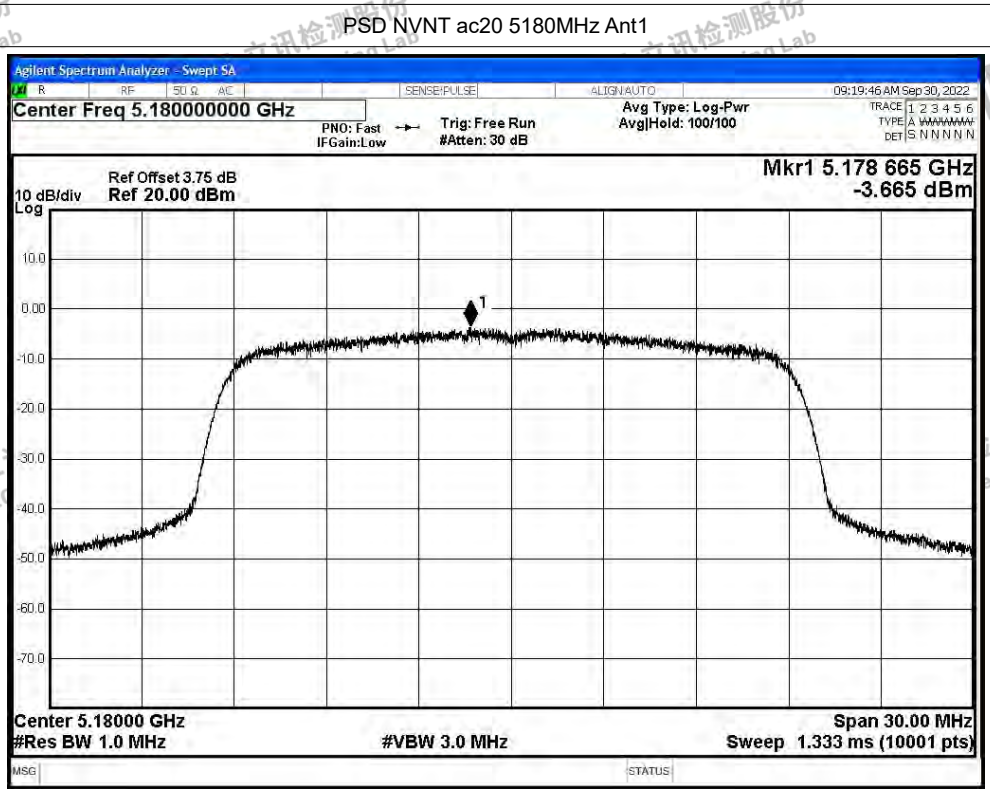


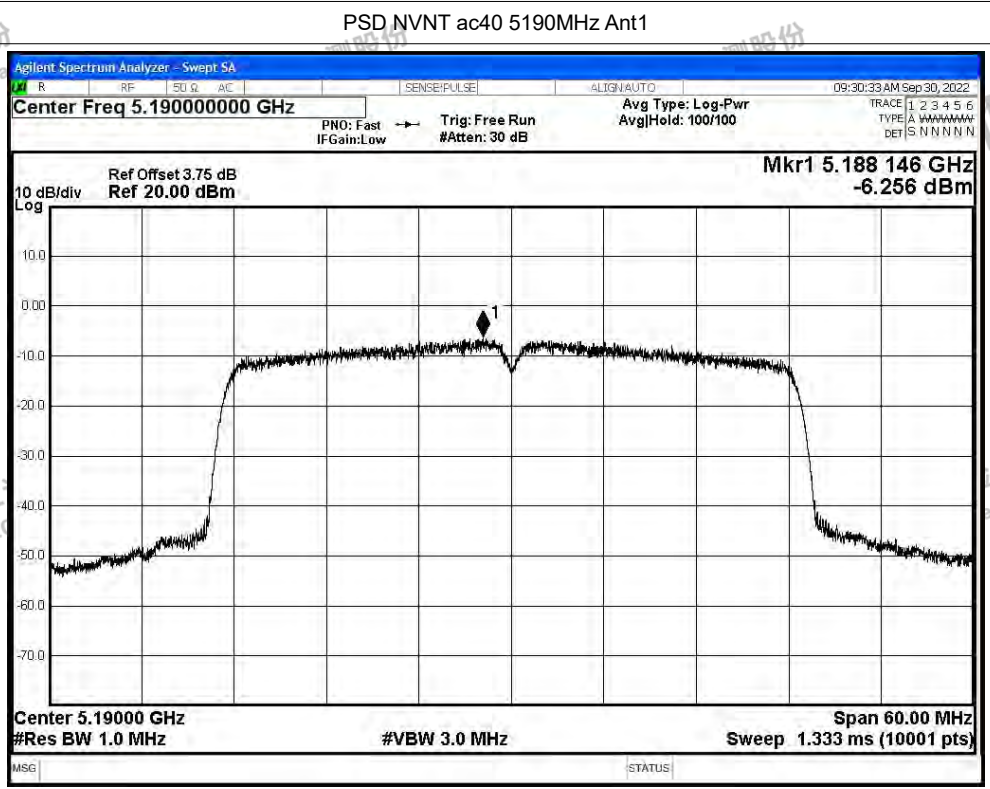
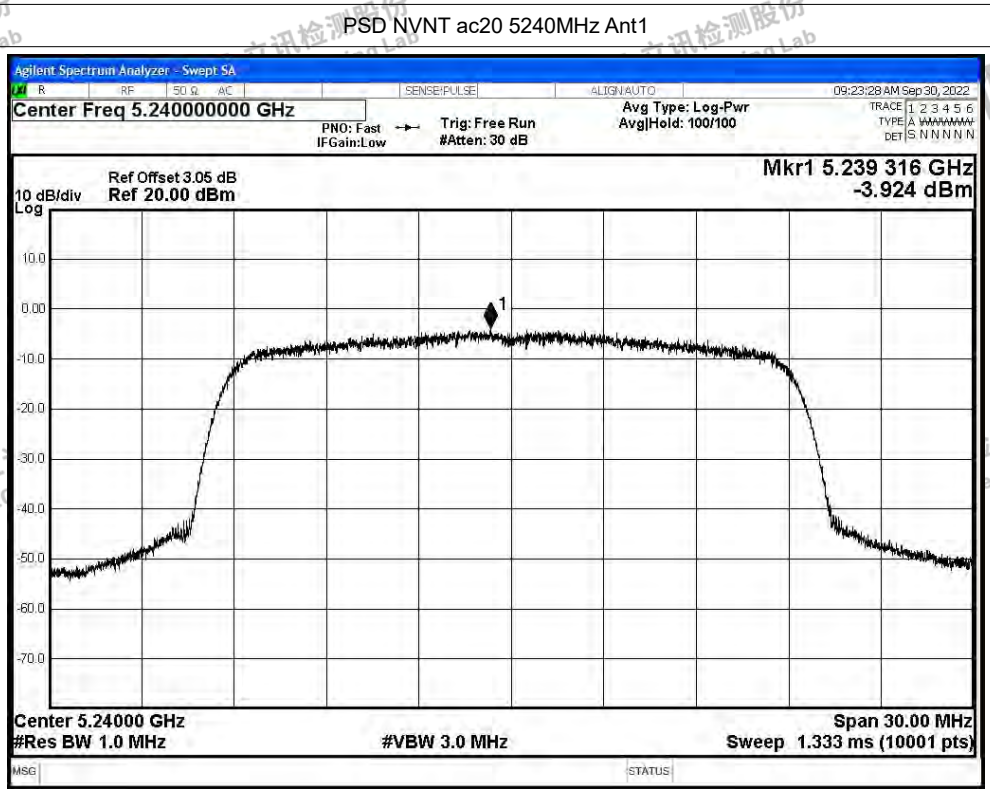
PSD NVNT n40 5190MHz Ant1

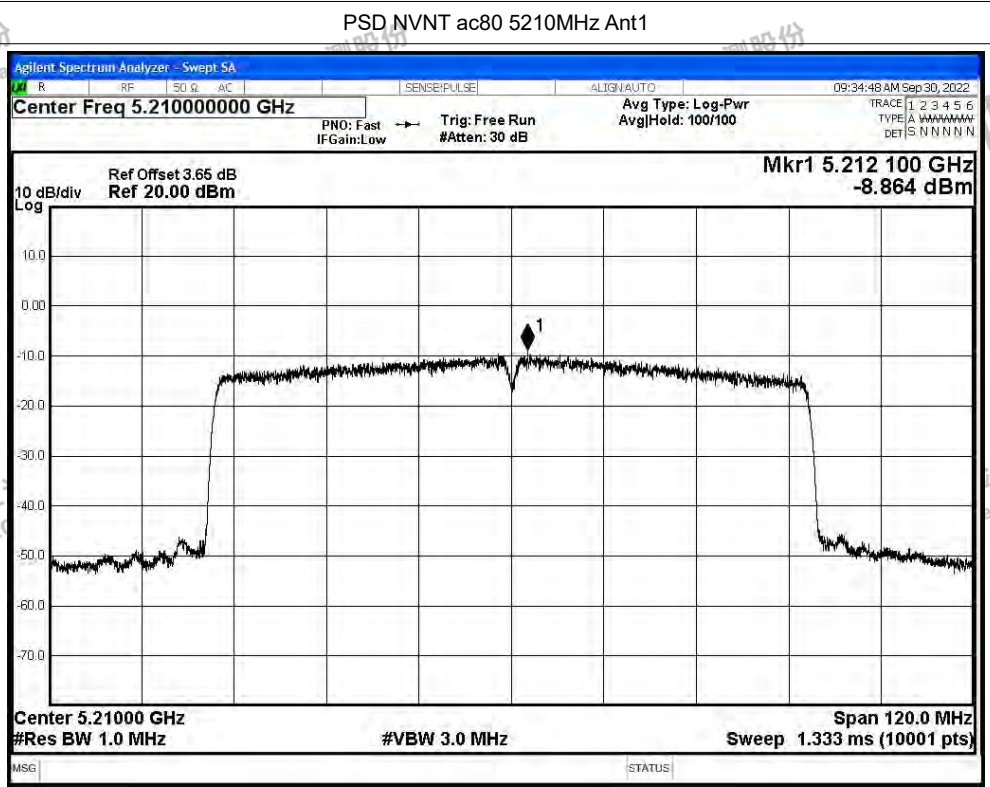
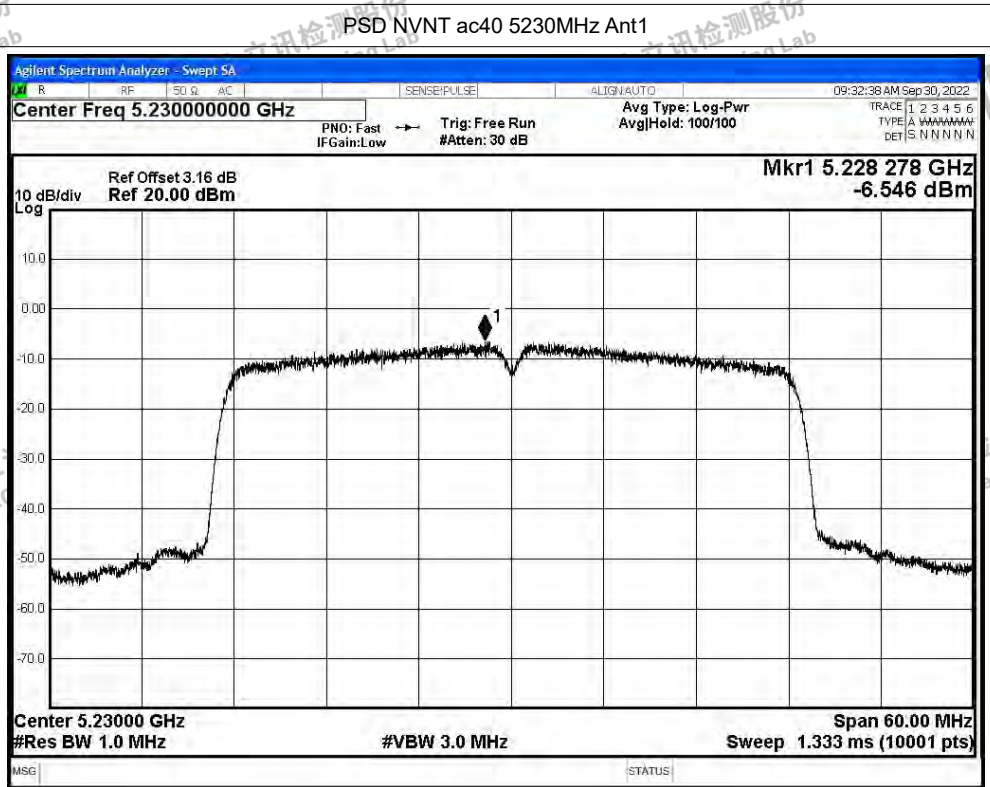


PSD NVNT n40 5230MHz Ant1











D.5 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-49	2.69	48.92	Peak	68.2	Pass
NVNT	a	5180	4500	-59.58	2.69	38.34	Average	54	Pass
NVNT	a	5180	5147.5	-43.85	2.69	54.07	Peak	68.2	Pass
NVNT	a	5180	5148.2	-54.49	2.69	43.43	Average	54	Pass
NVNT	a	5180	5150	-44.31	2.69	53.61	Peak	68.2	Pass
NVNT	a	5180	5150	-54.54	2.69	43.38	Average	54	Pass
NVNT	a	5240	5350	-48.15	2.69	49.77	Peak	68.2	Pass
NVNT	a	5240	5350	-57.6	2.69	40.32	Average	54	Pass
NVNT	a	5240	5353.44	-45.3	2.69	52.62	Peak	68.2	Pass
NVNT	a	5240	5350.56	-57.42	2.69	40.50	Average	54	Pass
NVNT	a	5240	5460	-49.62	2.69	48.30	Peak	68.2	Pass
NVNT	a	5240	5460	-59.25	2.69	38.67	Average	54	Pass
NVNT	n20-MIMO	5180	4500	-51.11	5.70	49.82	Peak	68.2	Pass
NVNT	n20-MIMO	5180	4500	-59.63	5.70	41.30	Average	54	Pass
NVNT	n20-MIMO	5180	5148.9	-42.55	5.70	58.38	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5149.6	-54.24	5.70	46.69	Average	54	Pass
NVNT	n20-MIMO	5180	5150	-44.73	5.70	56.20	Peak	68.2	Pass
NVNT	n20-MIMO	5180	5150	-54.37	5.70	46.56	Average	54	Pass
NVNT	n20-MIMO	5240	5350	-48.19	5.70	52.74	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5350	-57.67	5.70	43.26	Average	54	Pass
NVNT	n20-MIMO	5240	5366.64	-45.73	5.70	55.20	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5356.32	-57.41	5.70	43.52	Average	54	Pass
NVNT	n20-MIMO	5240	5460	-50.15	5.70	50.78	Peak	68.2	Pass
NVNT	n20-MIMO	5240	5460	-59.11	5.70	41.82	Average	54	Pass
NVNT	n40-MIMO	5190	4500	-50.62	5.70	50.31	Peak	68.2	Pass
NVNT	n40-MIMO	5190	4500	-59.33	5.70	41.60	Average	54	Pass
NVNT	n40-MIMO	5190	5140.21	-40.33	5.70	60.60	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5149.7	-53.65	5.70	47.28	Average	54	Pass
NVNT	n40-MIMO	5190	5150	-44.38	5.70	56.55	Peak	68.2	Pass
NVNT	n40-MIMO	5190	5150	-53.65	5.70	47.28	Average	54	Pass
NVNT	n40-MIMO	5230	5350	-46.55	5.70	54.38	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5350	-57.21	5.70	43.72	Average	54	Pass
NVNT	n40-MIMO	5230	5353.08	-45.53	5.70	55.40	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5353.62	-56.85	5.70	44.08	Average	54	Pass
NVNT	n40-MIMO	5230	5460	-49.74	5.70	51.19	Peak	68.2	Pass
NVNT	n40-MIMO	5230	5460	-59.03	5.70	41.90	Average	54	Pass
NVNT	ac20-MIMO	5180	4500	-50.7	5.70	50.23	Peak	68.2	Pass



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NVNT	ac20-MIMO	5180	4500	-59.45	5.70	41.48	Average	54	Pass
NVNT	ac20-MIMO	5180	5149.6	-43.25	5.70	57.68	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5146.8	-54.11	5.70	46.82	Average	54	Pass
NVNT	ac20-MIMO	5180	5150	-45.52	5.70	55.41	Peak	68.2	Pass
NVNT	ac20-MIMO	5180	5150	-54.42	5.70	46.51	Average	54	Pass
NVNT	ac20-MIMO	5240	5350	-47.74	5.70	53.19	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5350	-57.49	5.70	43.44	Average	54	Pass
NVNT	ac20-MIMO	5240	5365.92	-46.28	5.70	54.65	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5356.32	-57.05	5.70	43.88	Average	54	Pass
NVNT	ac20-MIMO	5240	5460	-49.19	5.70	51.74	Peak	68.2	Pass
NVNT	ac20-MIMO	5240	5460	-59.07	5.70	41.86	Average	54	Pass
NVNT	ac40-MIMO	5190	4500	-49.93	5.70	51.00	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	4500	-59.3	5.70	41.63	Average	54	Pass
NVNT	ac40-MIMO	5190	5143.13	-36.86	5.70	64.07	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5149.7	-53.23	5.70	47.70	Average	54	Pass
NVNT	ac40-MIMO	5190	5150	-45.46	5.70	55.47	Peak	68.2	Pass
NVNT	ac40-MIMO	5190	5150	-53.23	5.70	47.70	Average	54	Pass
NVNT	ac40-MIMO	5230	5350	-47.9	5.70	53.03	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5350	-57.04	5.70	43.89	Average	54	Pass
NVNT	ac40-MIMO	5230	5361.45	-45.03	5.70	55.90	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5360.1	-56.68	5.70	44.25	Average	54	Pass
NVNT	ac40-MIMO	5230	5460	-49.62	5.70	51.31	Peak	68.2	Pass
NVNT	ac40-MIMO	5230	5460	-58.66	5.70	42.27	Average	54	Pass
NVNT	ac80-MIMO	5210	5350	-47.83	5.70	53.10	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5350	-56.45	5.70	44.48	Average	54	Pass
NVNT	ac80-MIMO	5210	5358.36	-45.37	5.70	55.56	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5354.73	-55.64	5.70	45.29	Average	54	Pass
NVNT	ac80-MIMO	5210	5460	-49.54	5.70	51.39	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5460	-58.18	5.70	42.75	Average	54	Pass
NVNT	ac80-MIMO	5210	4500	-49.64	5.70	51.29	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	4500	-58.6	5.70	42.33	Average	54	Pass
NVNT	ac80-MIMO	5210	5147.01	-37.95	5.70	62.98	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5146.22	-49.15	5.70	51.78	Average	54	Pass
NVNT	ac80-MIMO	5210	5150	-39.13	5.70	61.80	Peak	68.2	Pass
NVNT	ac80-MIMO	5210	5150	-49.79	5.70	51.14	Average	54	Pass

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

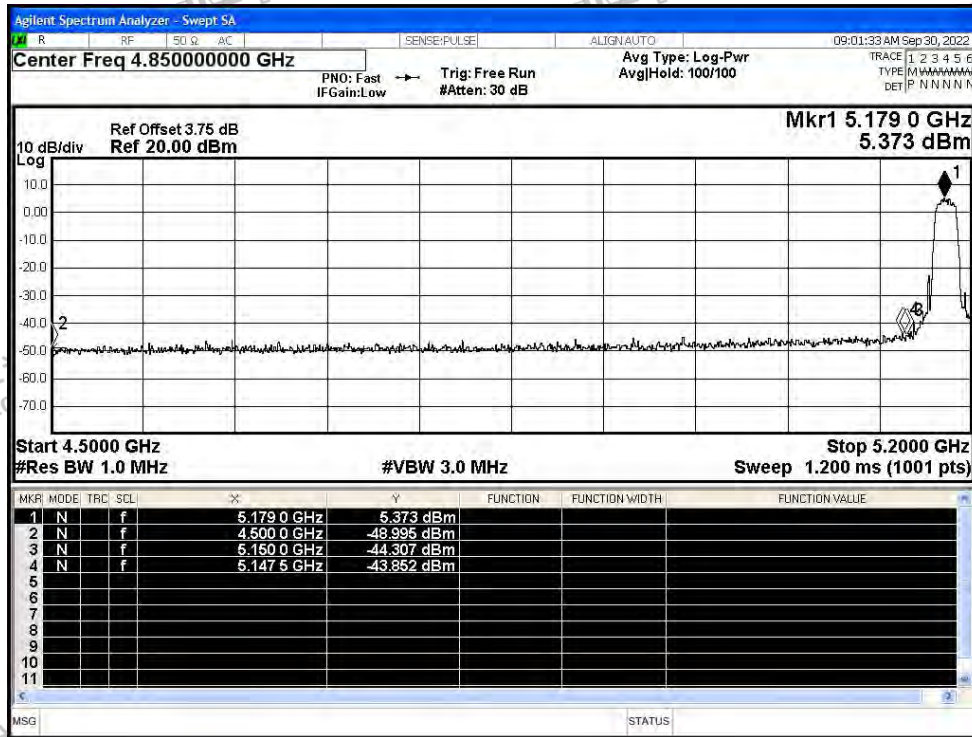


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 Scan code to check authenticity

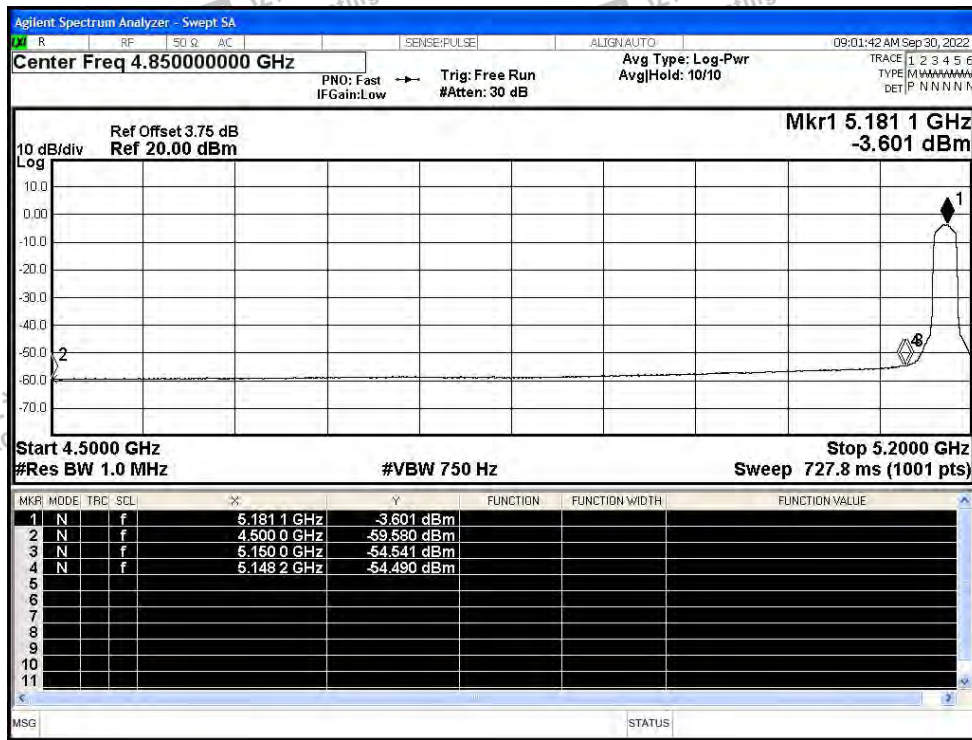


Test Graphs

Restrict Band NVNT a 5180MHz Peak

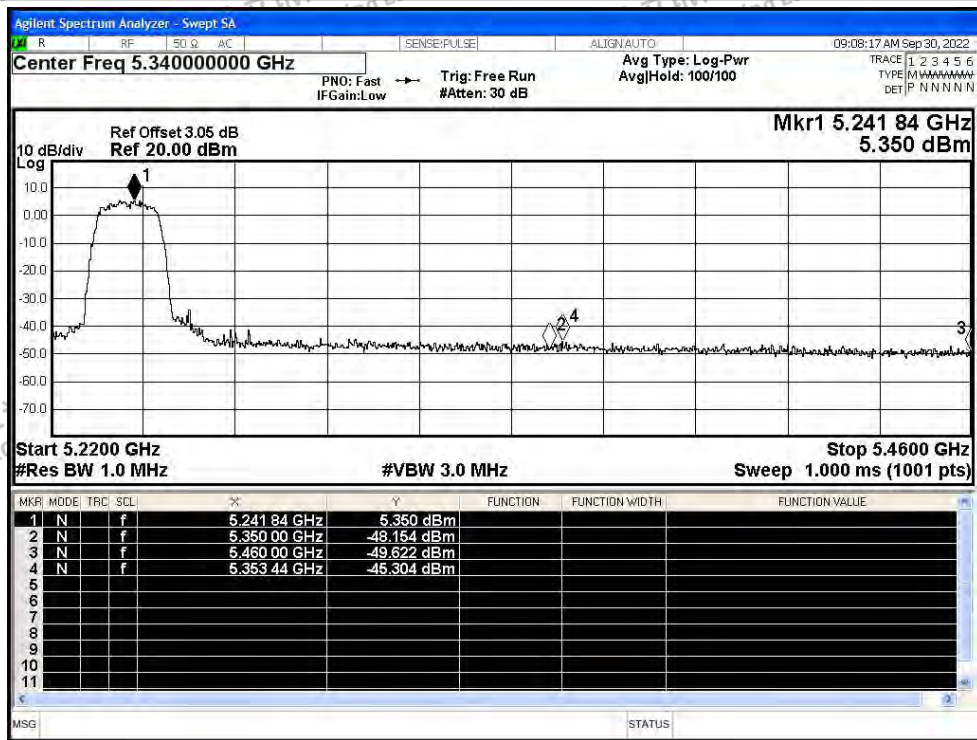


Restrict Band NVNT a 5180MHz Average

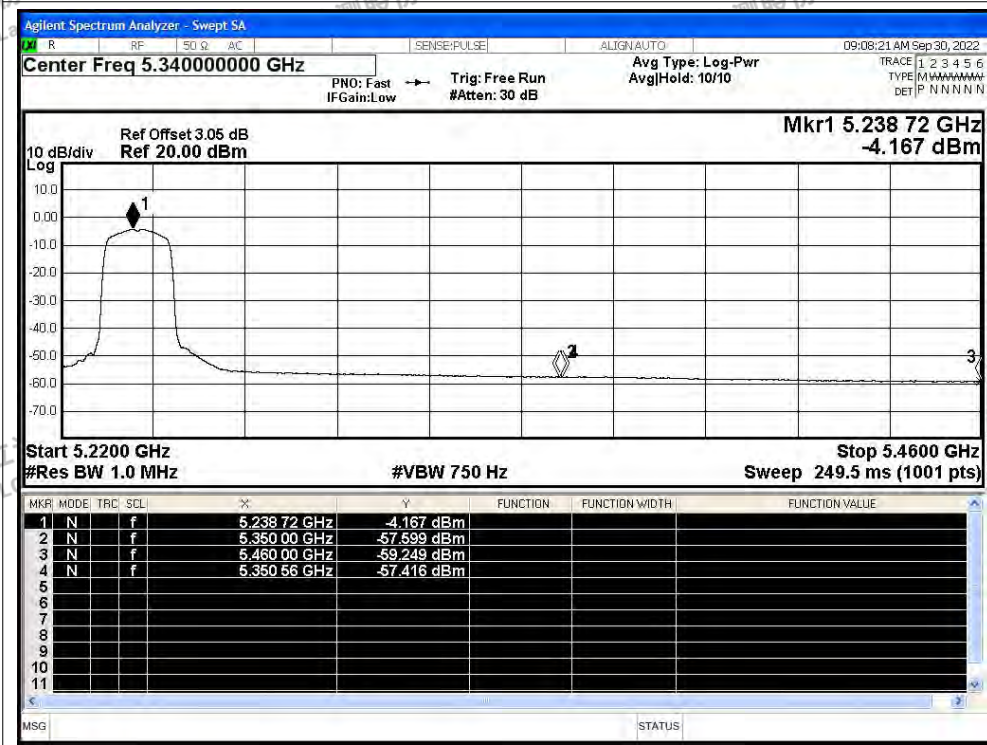




Restrict Band NVNT a 5240MHz Peak

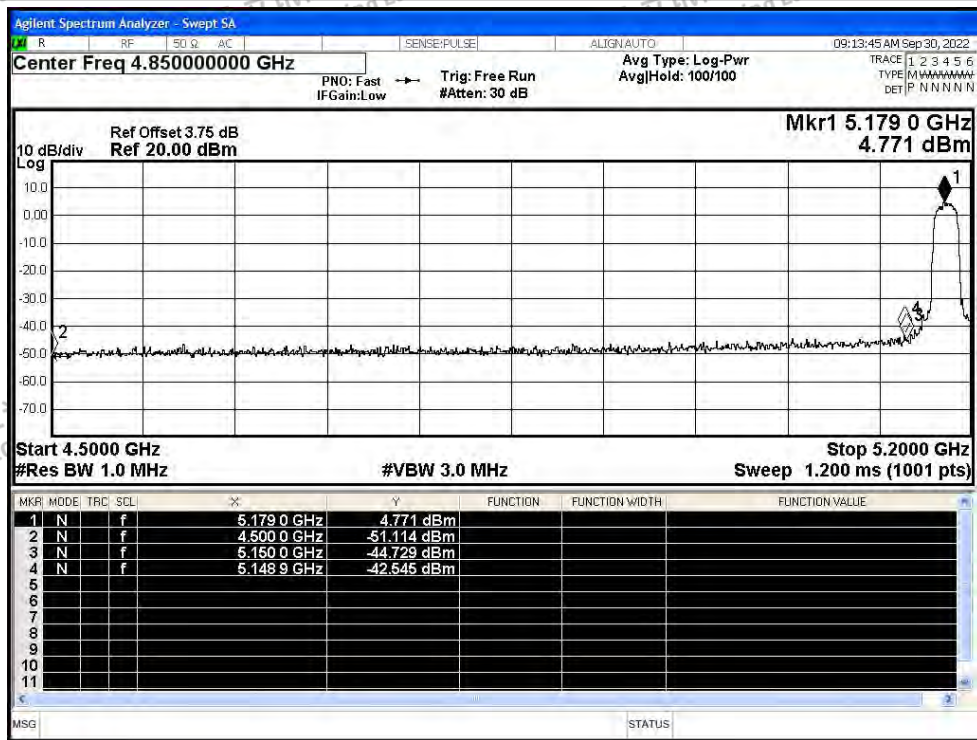


Restrict Band NVNT a 5240MHz Average

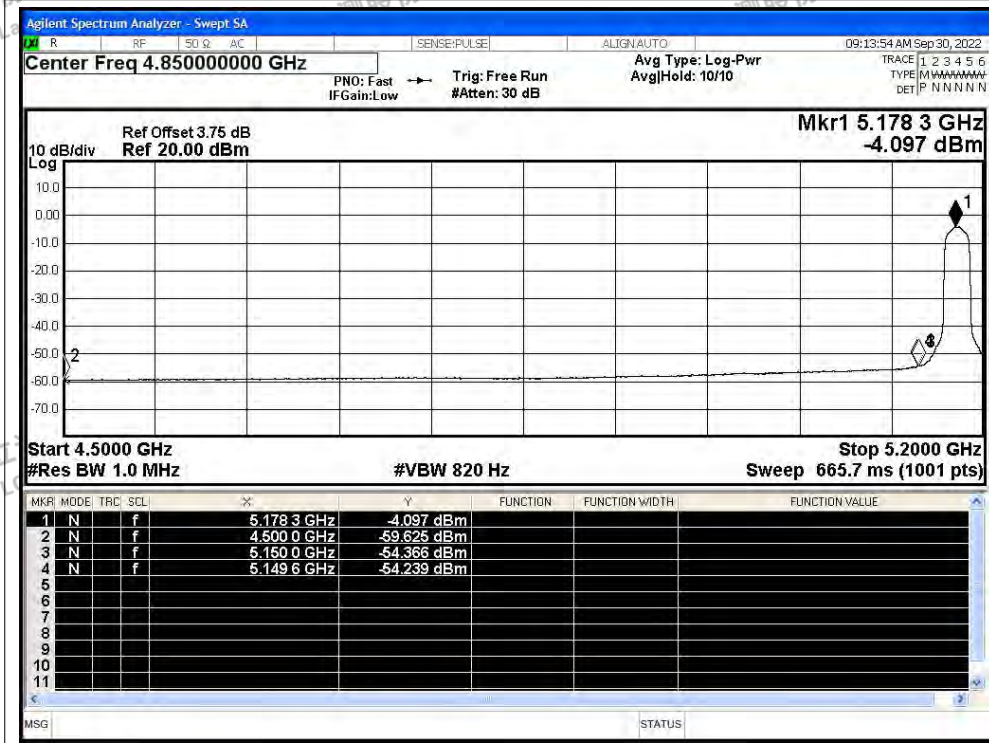




Restrict Band NVNT n20 5180MHz Peak

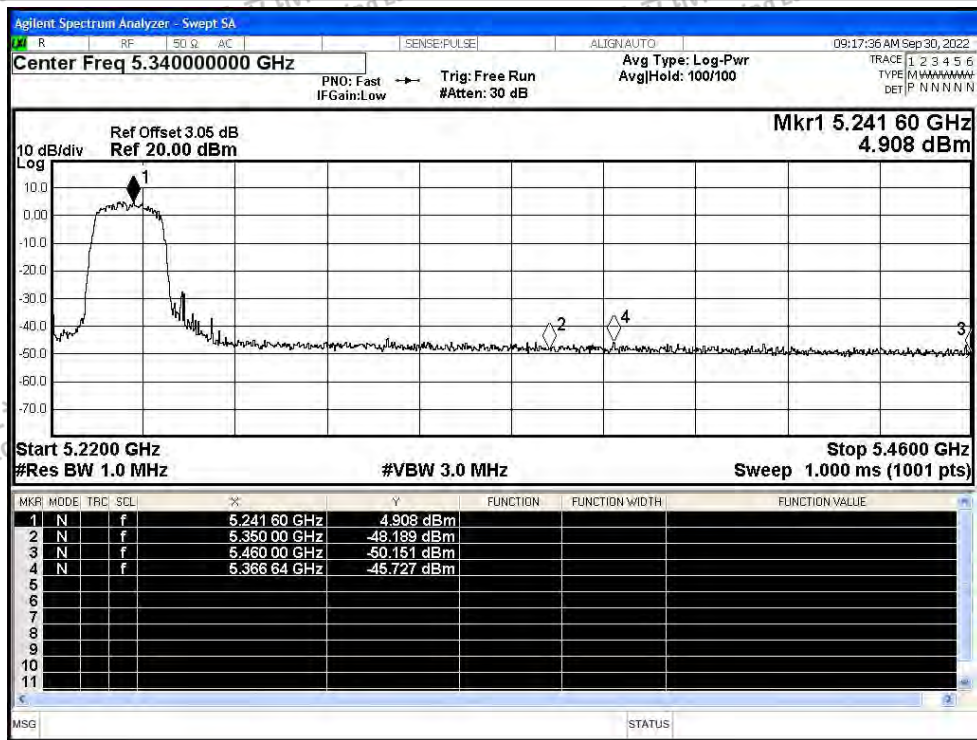


Restrict Band NVNT n20 5180MHz Average

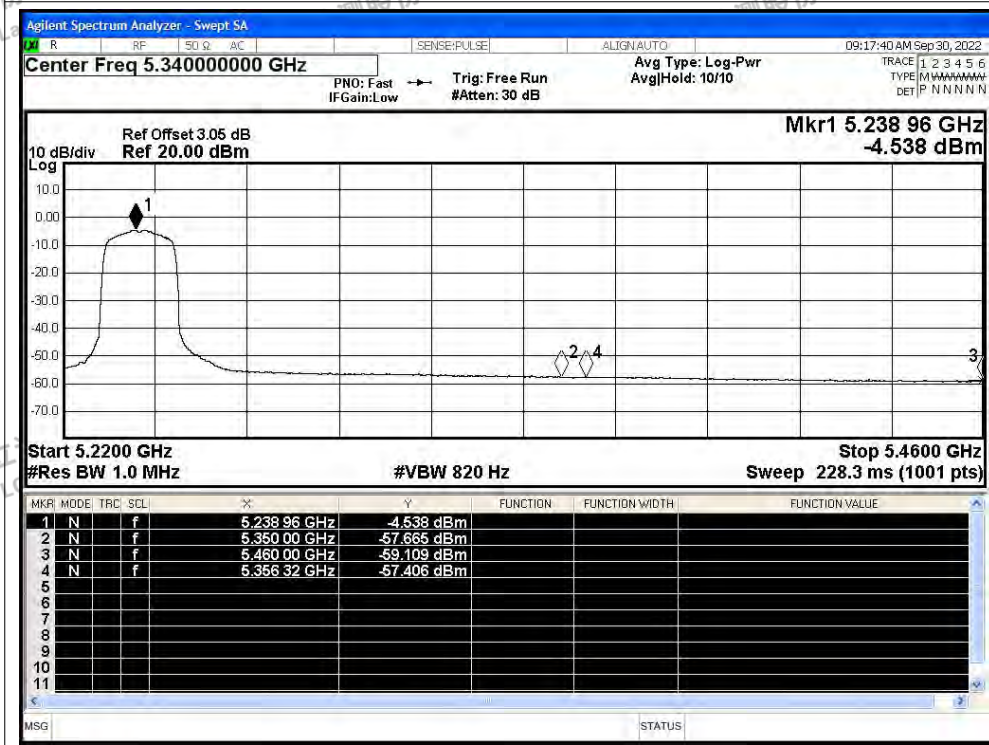




Restrict Band NVNT n20 5240MHz Peak

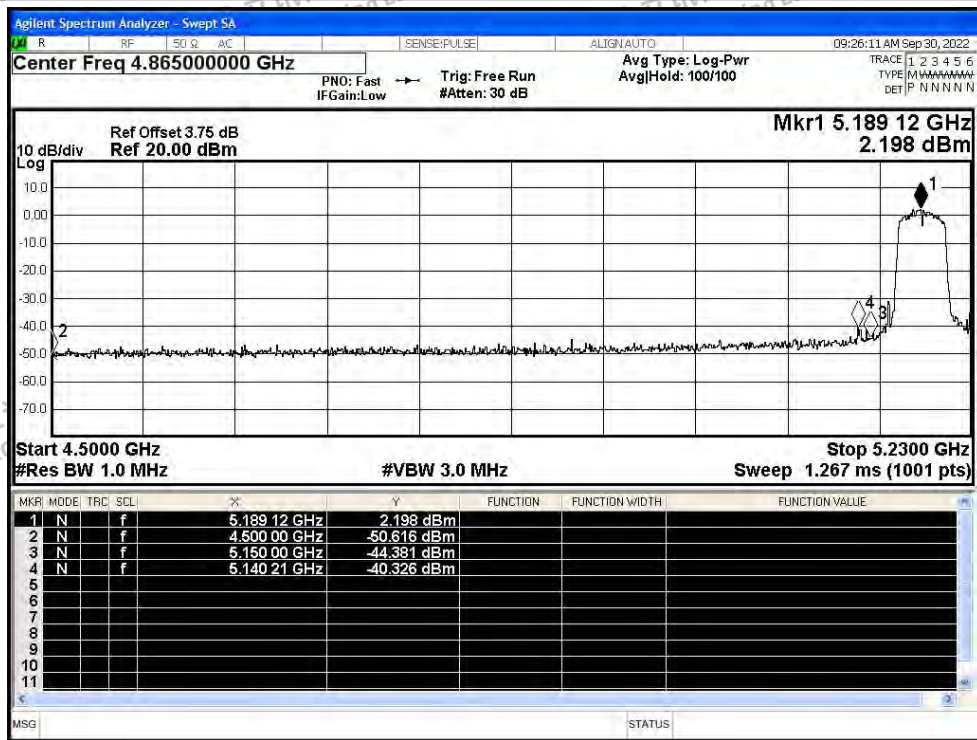


Restrict Band NVNT n20 5240MHz Average

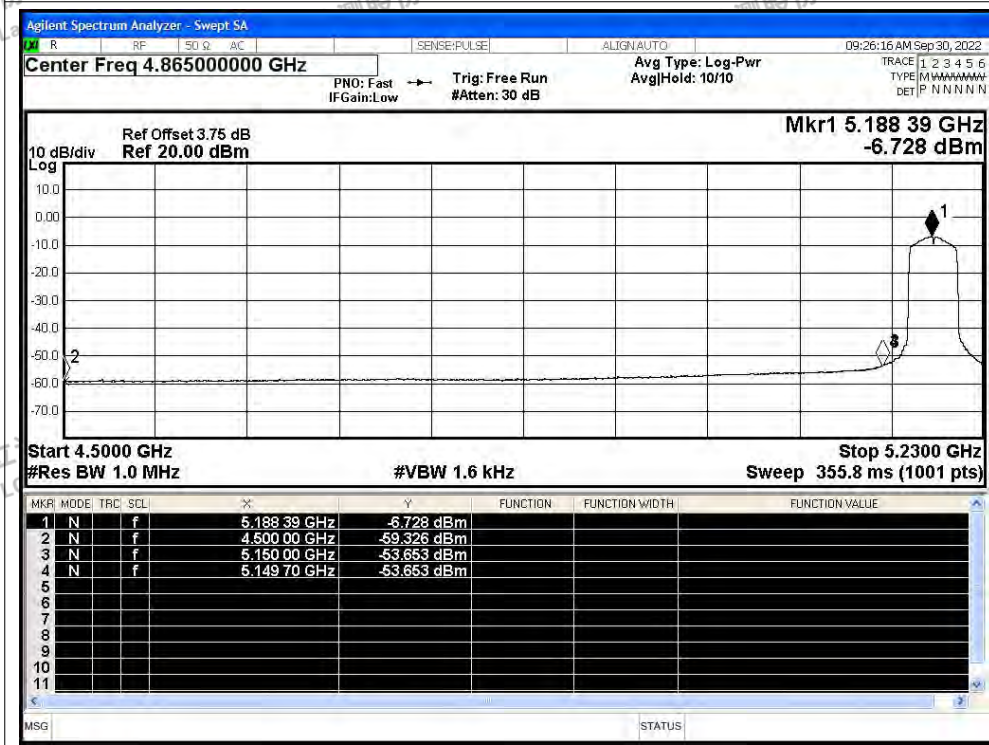




Restrict Band NVNT n40 5190MHz Peak

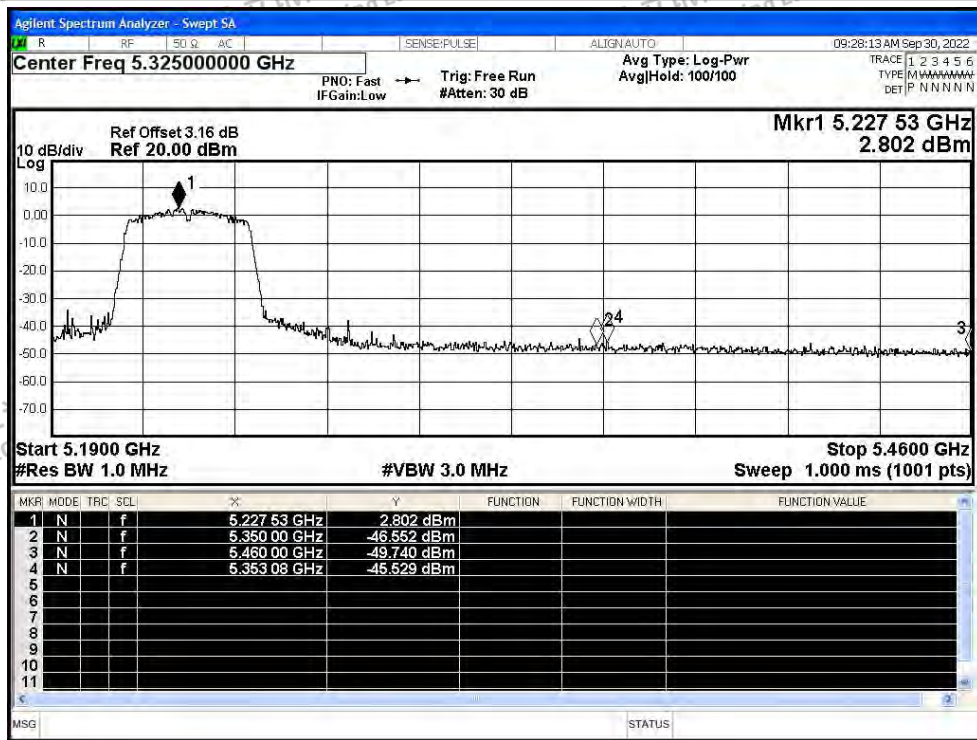


Restrict Band NVNT n40 5190MHz Average

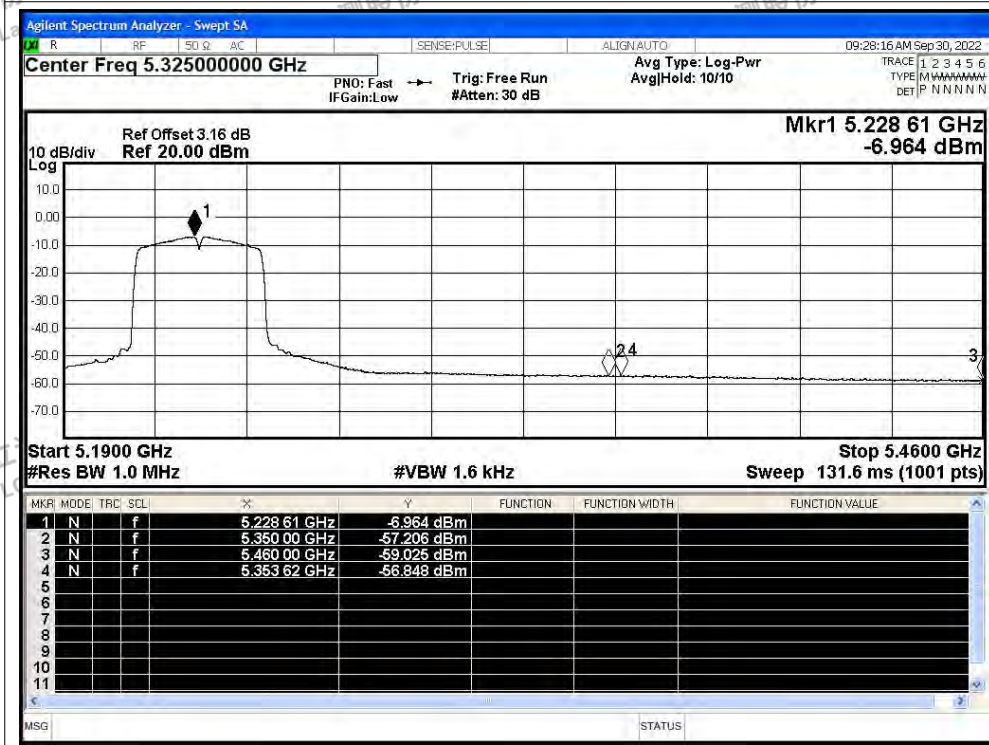




Restrict Band NVNT n40 5230MHz Peak

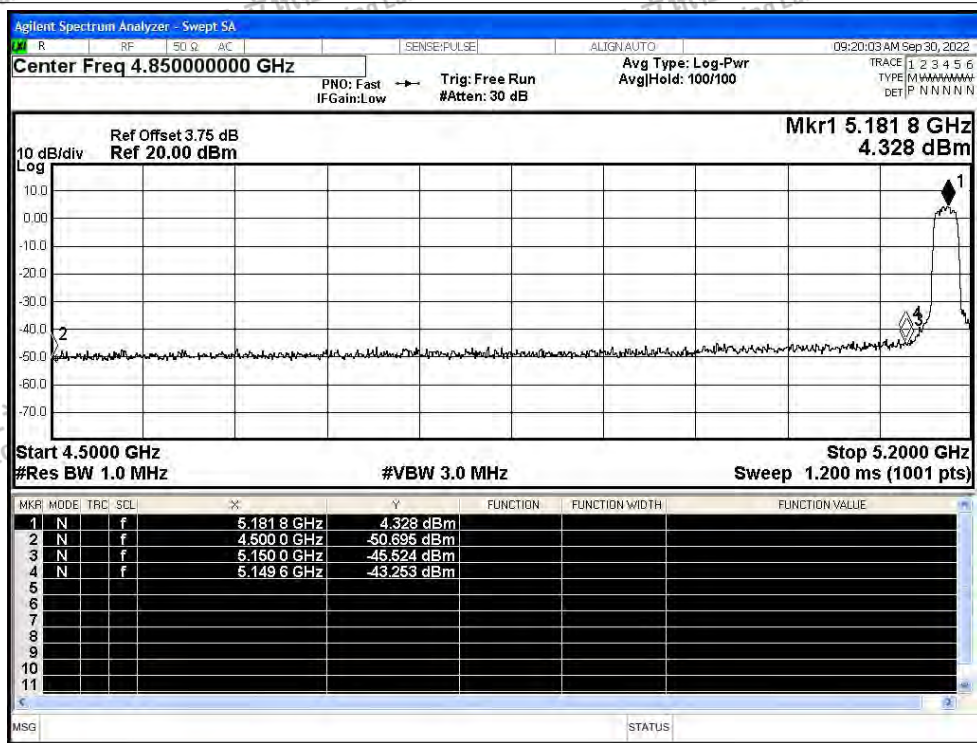


Restrict Band NVNT n40 5230MHz Average

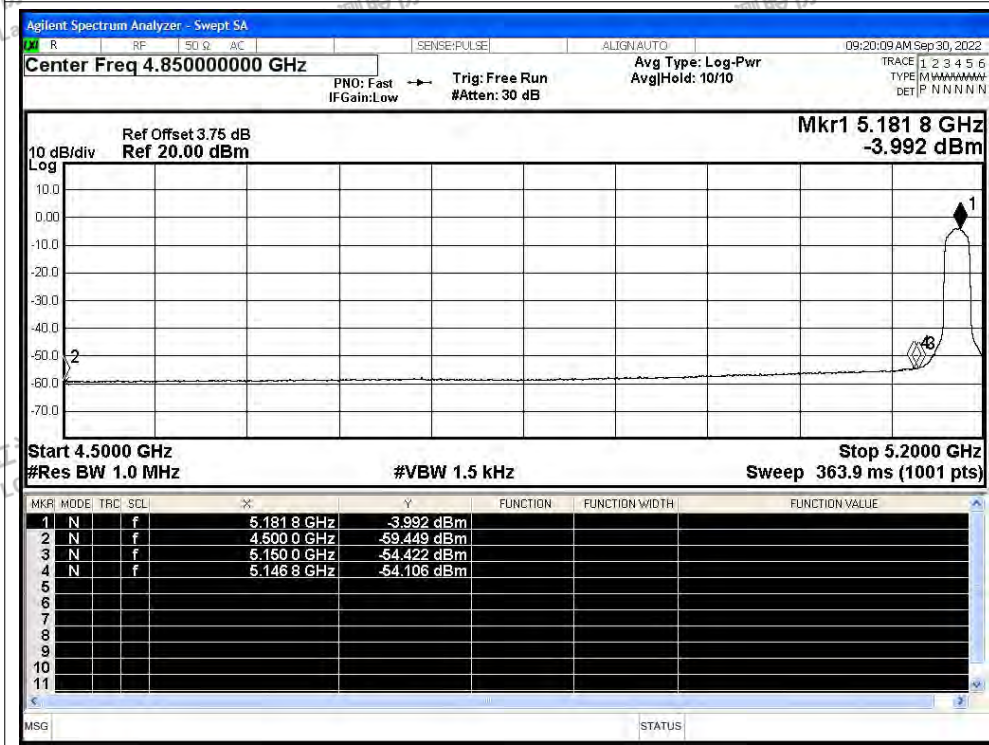




Restrict Band NVNT ac20 5180MHz Peak

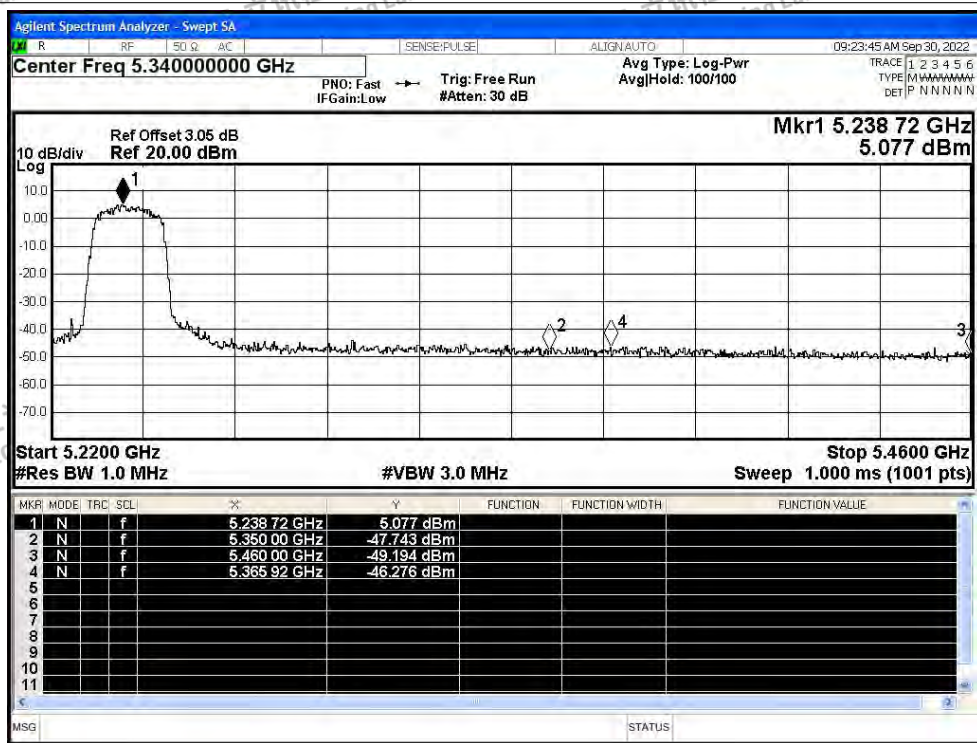


Restrict Band NVNT ac20 5180MHz Average

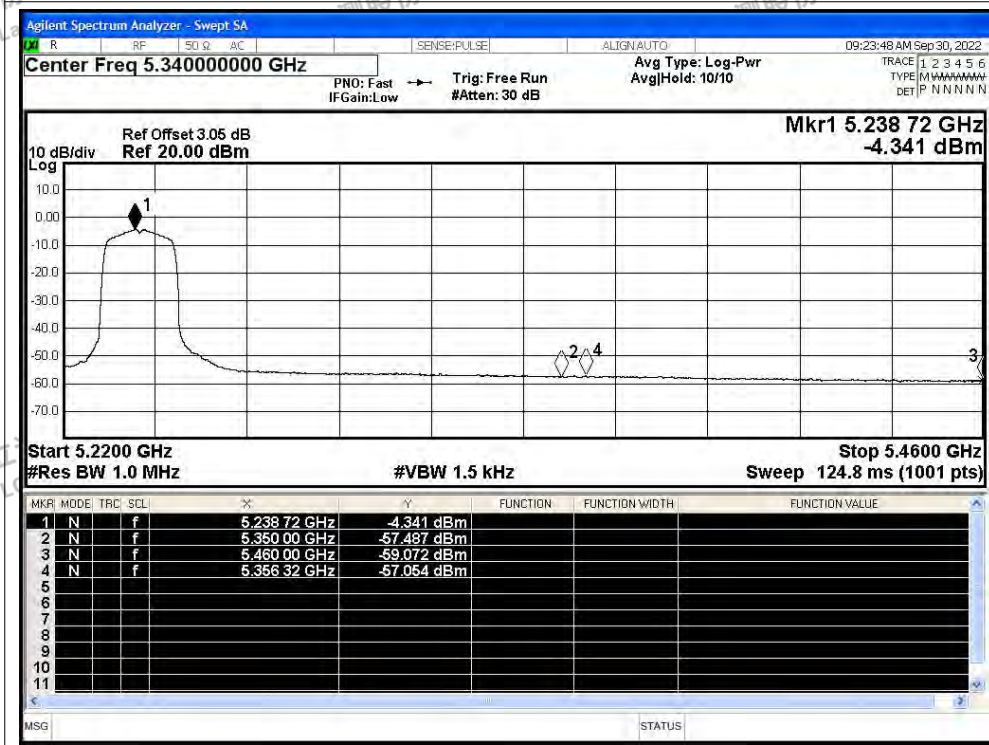




Restrict Band NVNT ac20 5240MHz Peak

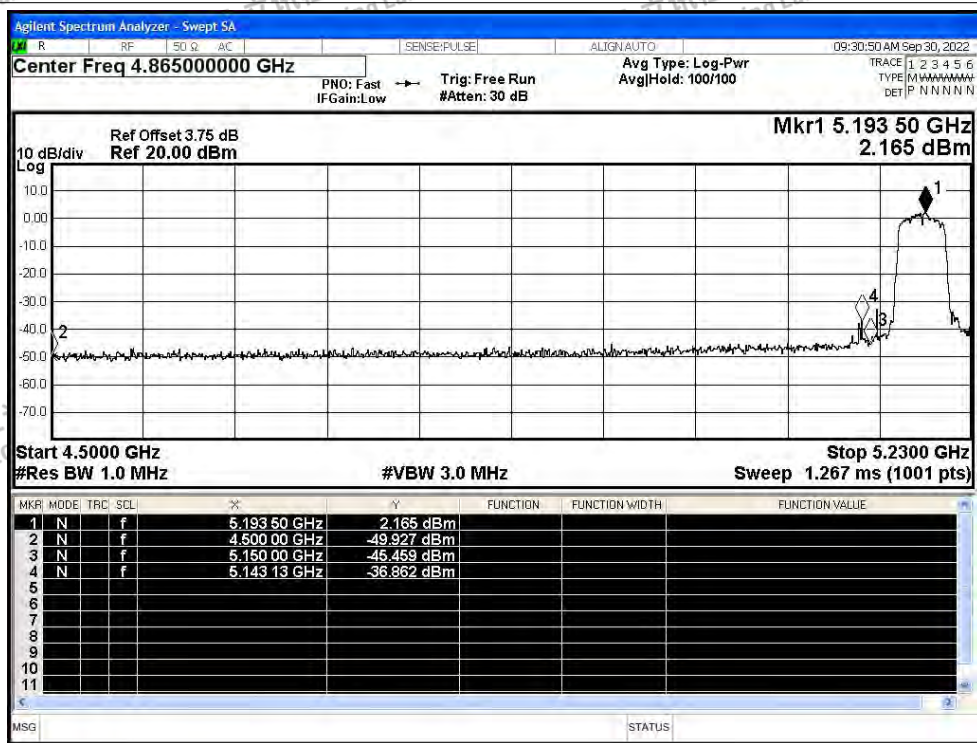


Restrict Band NVNT ac20 5240MHz Average

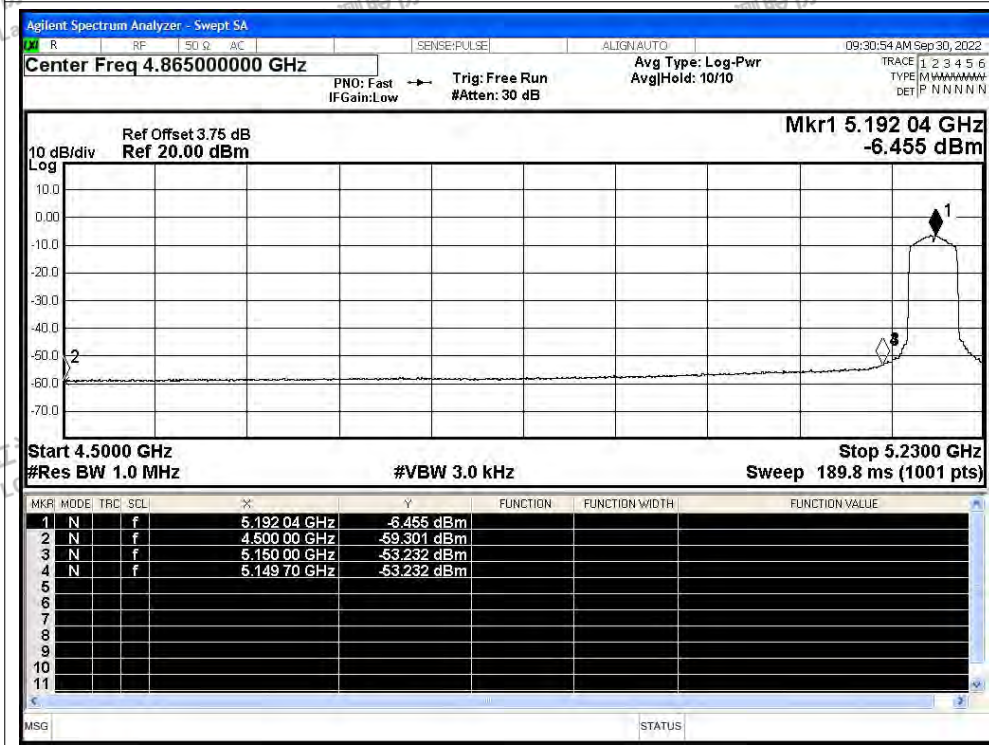




Restrict Band NVNT ac40 5190MHz Peak

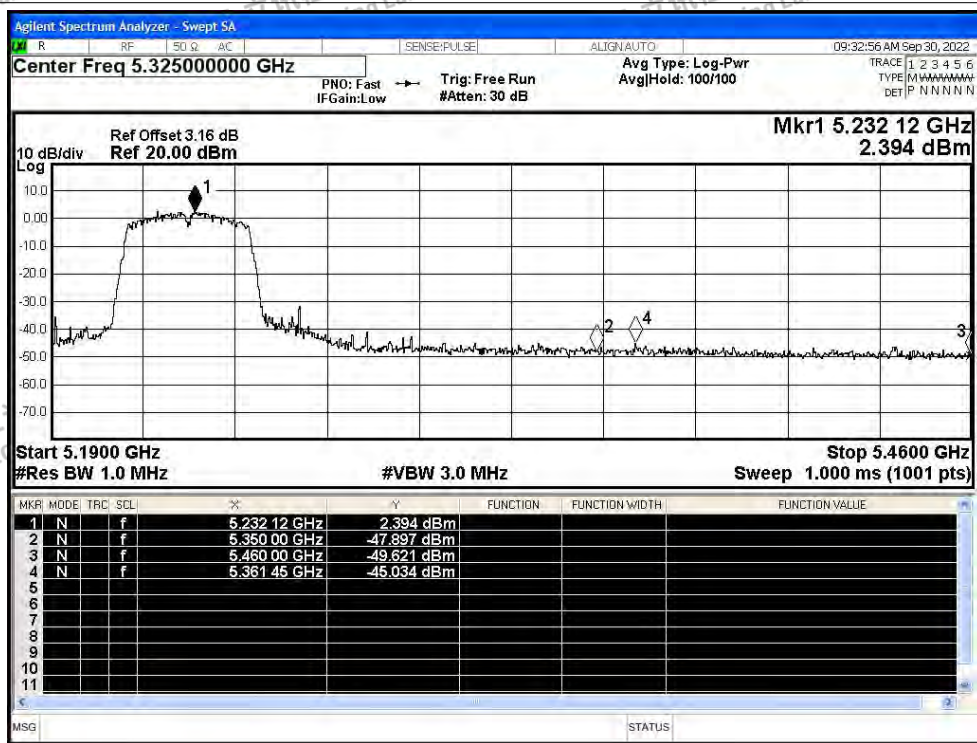


Restrict Band NVNT ac40 5190MHz Average

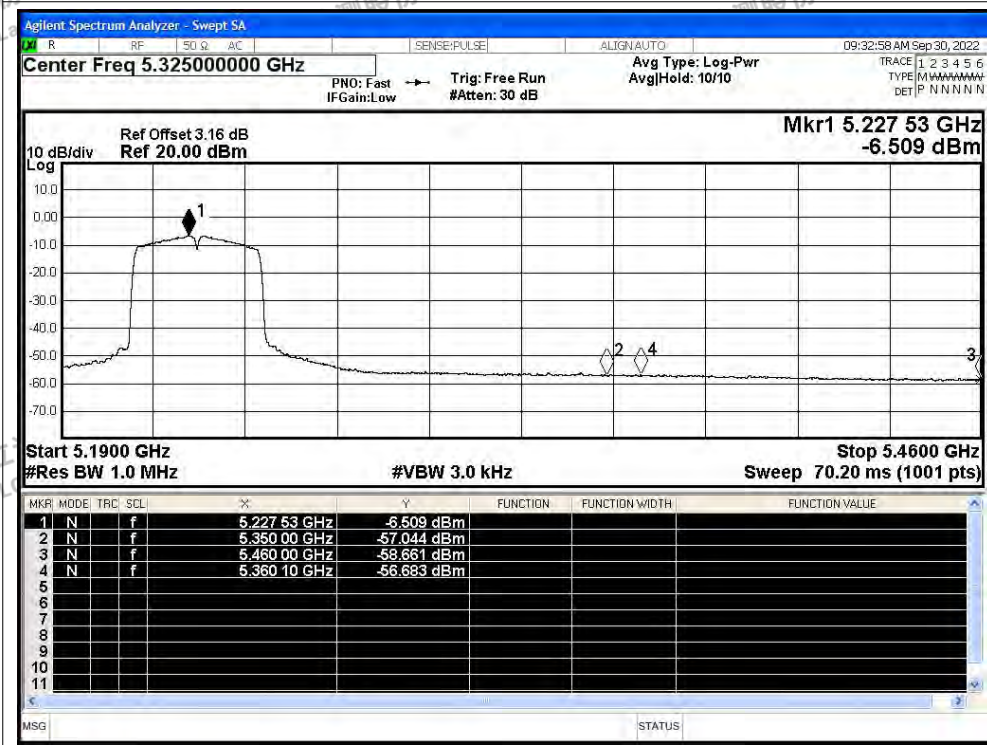




Restrict Band NVNT ac40 5230MHz Peak

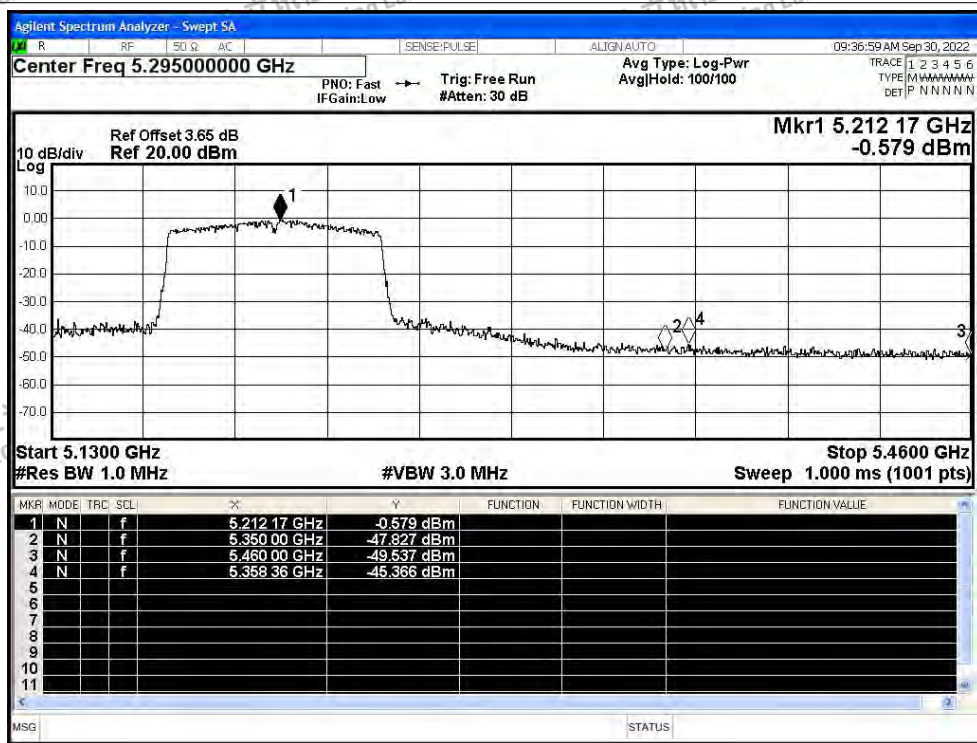


Restrict Band NVNT ac40 5230MHz Average

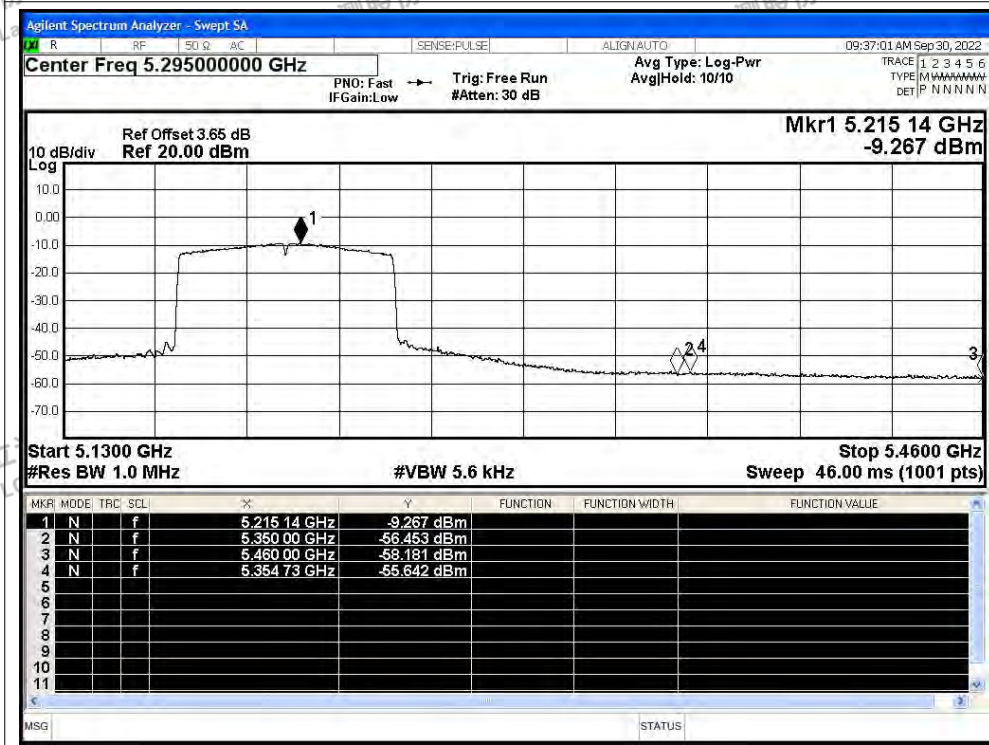




Restrict Band NVNT ac80 5210MHz Peak

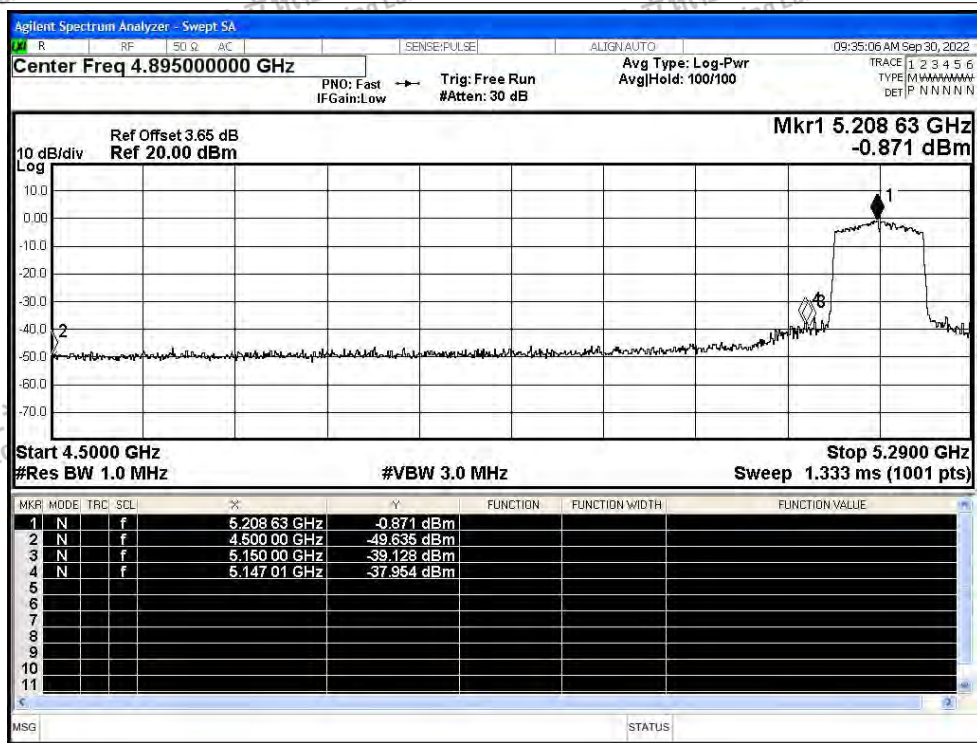


Restrict Band NVNT ac80 5210MHz Average

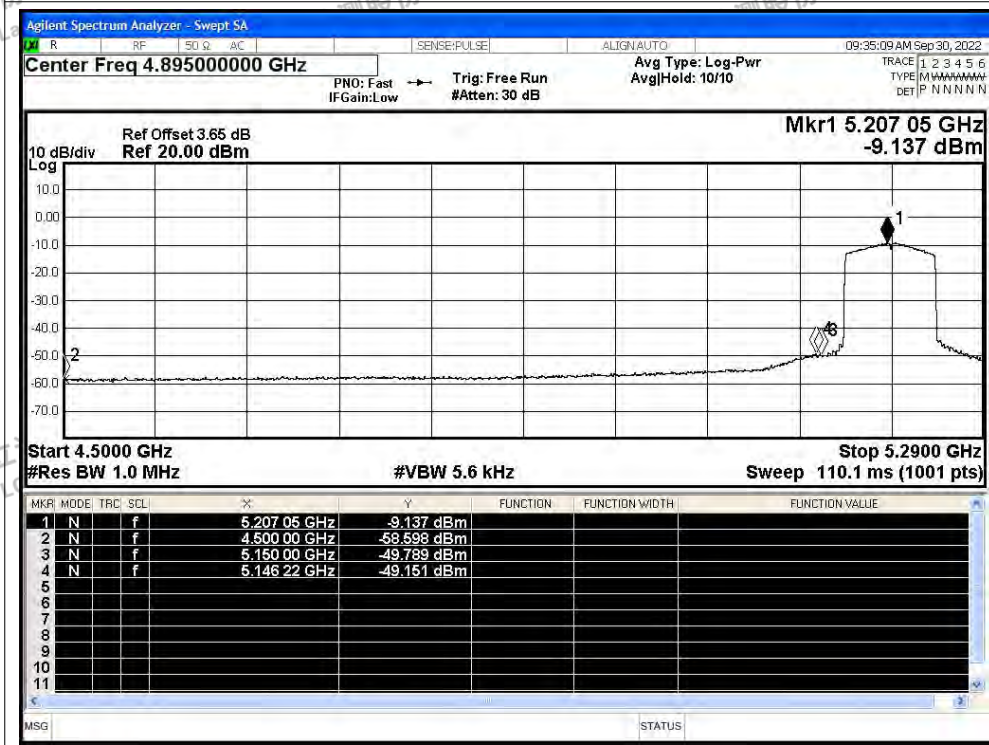




Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average





D.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant0	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant0	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant0	5239.96	-40000	-7.63	25	Pass
NVNT	n20	5180	Ant0	5180	0	0	25	Pass
NVNT	n20	5200	Ant0	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant0	5240	0	0	25	Pass
NVNT	n40	5190	Ant0	5190	0	0	25	Pass
NVNT	n40	5230	Ant0	5229.96	-40000	-7.65	25	Pass
NVNT	ac20	5180	Ant0	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant0	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant0	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant0	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant0	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant0	5209.92	-80000	-15.36	25	Pass

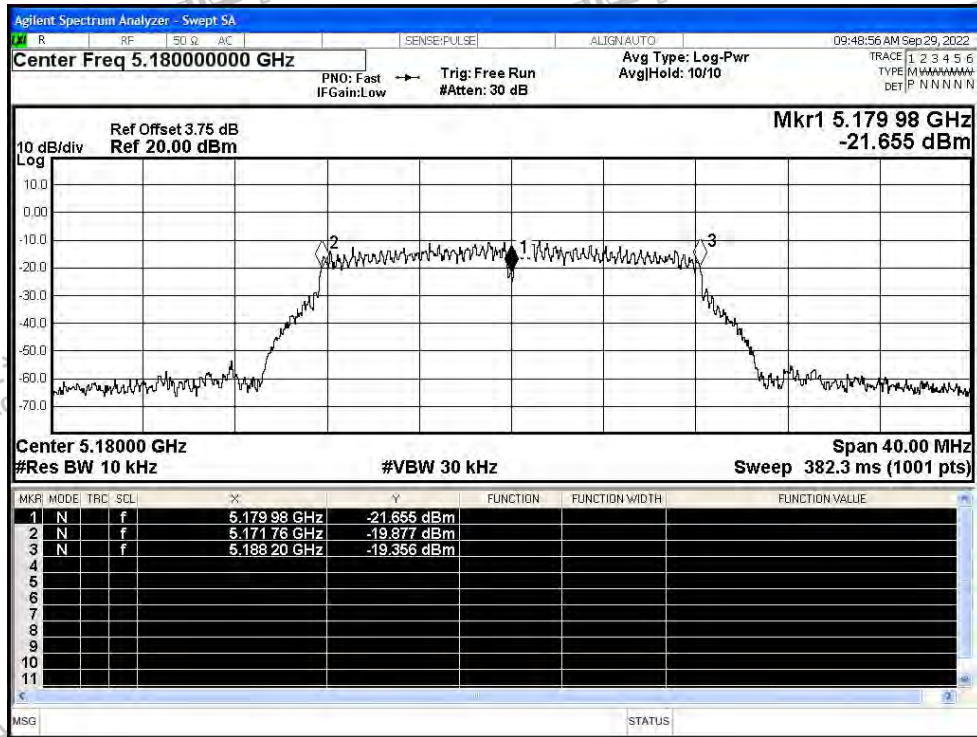


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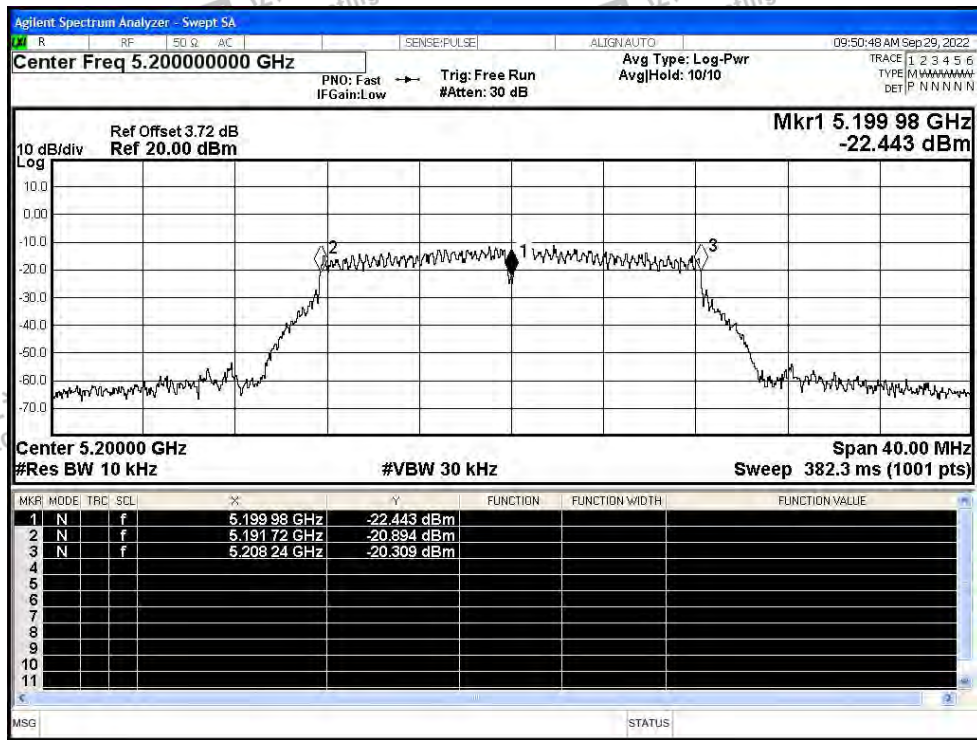


Test Graphs

Freq. Stability NVNT a 5180MHz Ant0

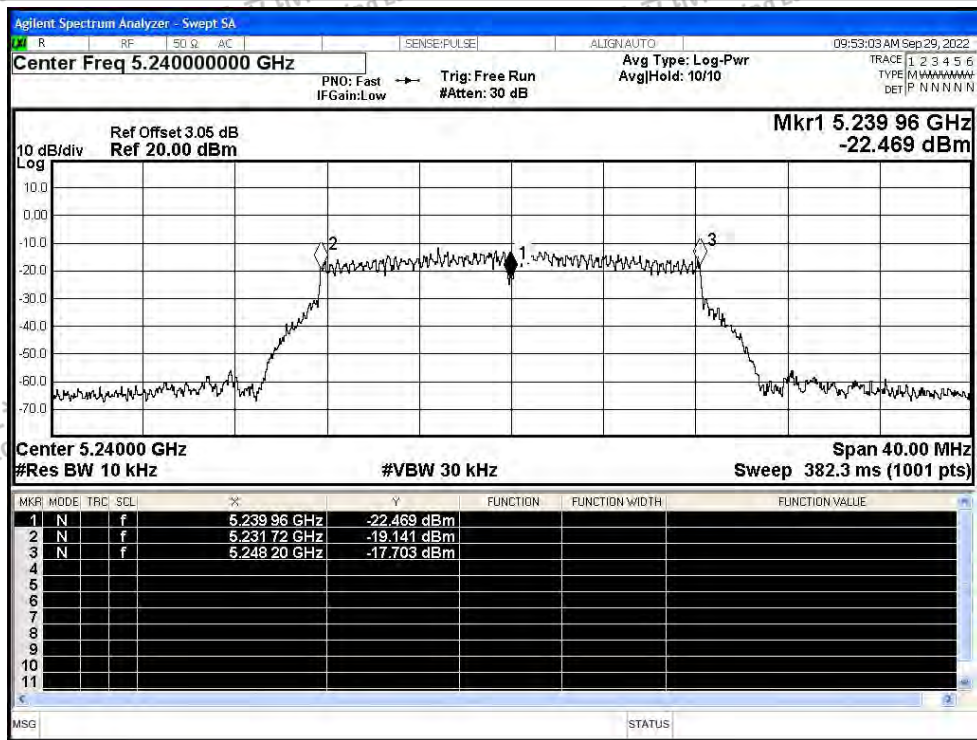


Freq. Stability NVNT a 5200MHz Ant0

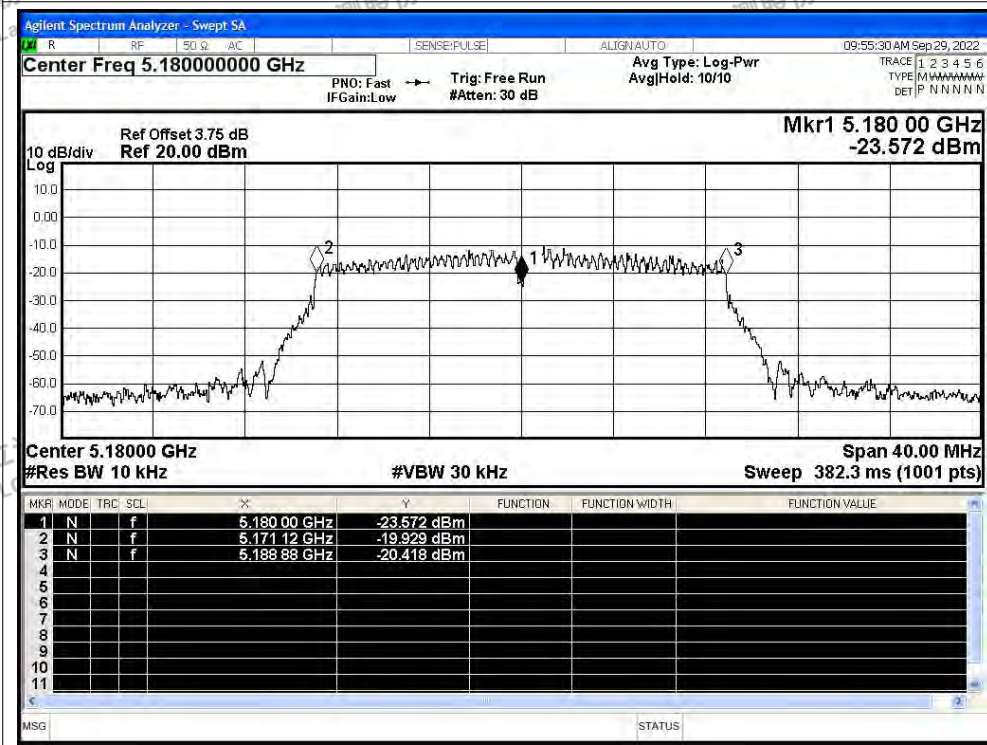




Freq. Stability NVNT a 5240MHz Ant0

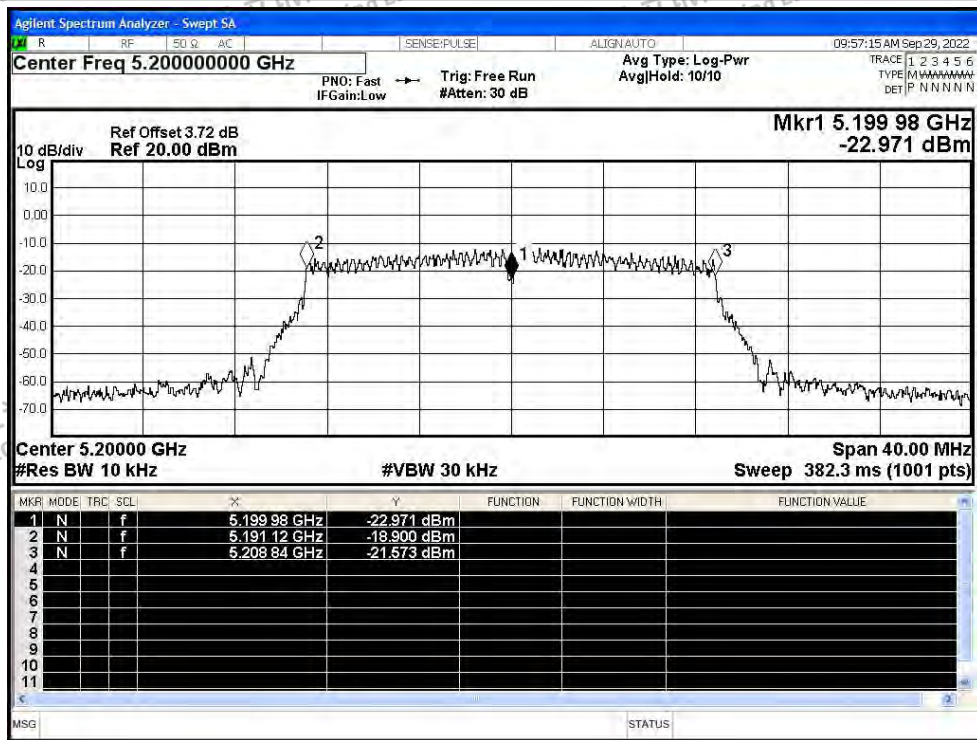


Freq. Stability NVNT n20 5180MHz Ant0

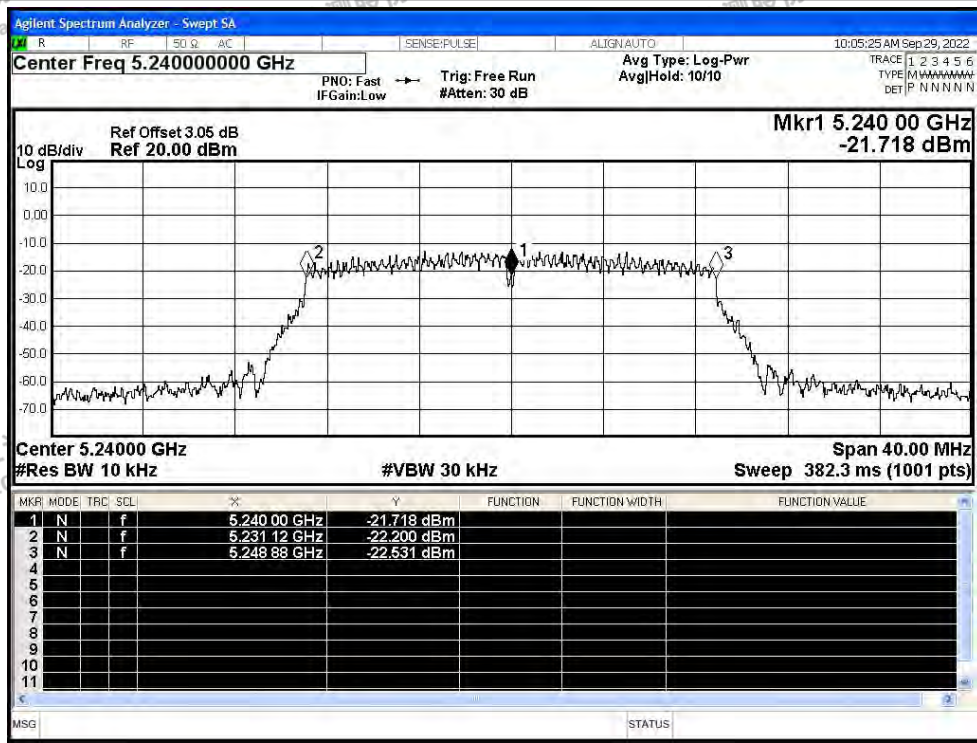




Freq. Stability NVNT n20 5200MHz Ant0

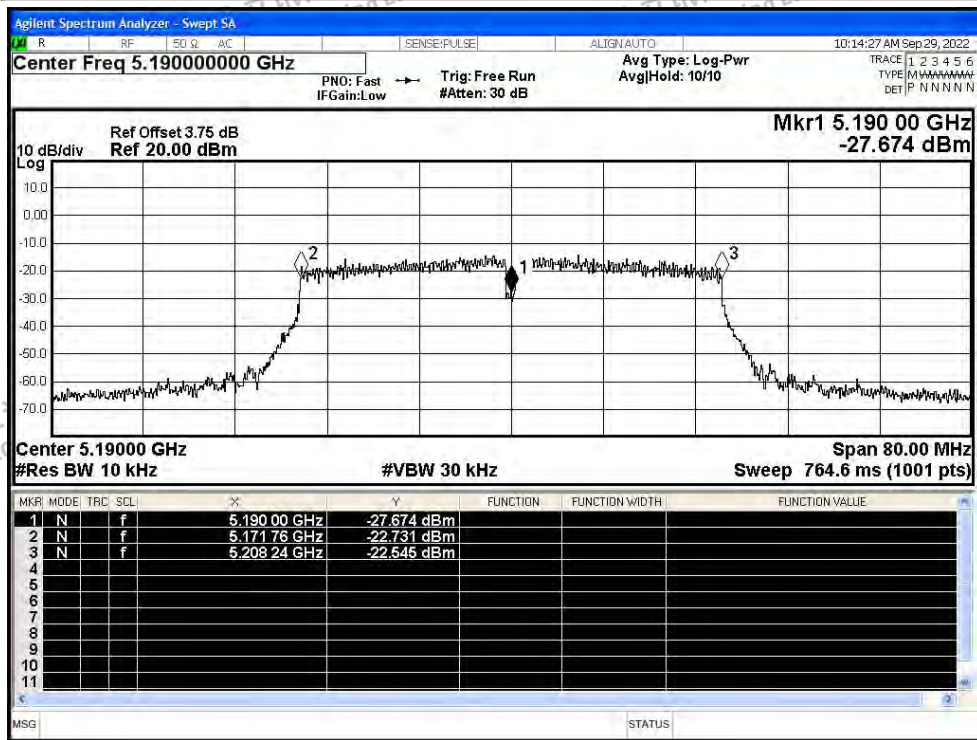


Freq. Stability NVNT n20 5240MHz Ant0

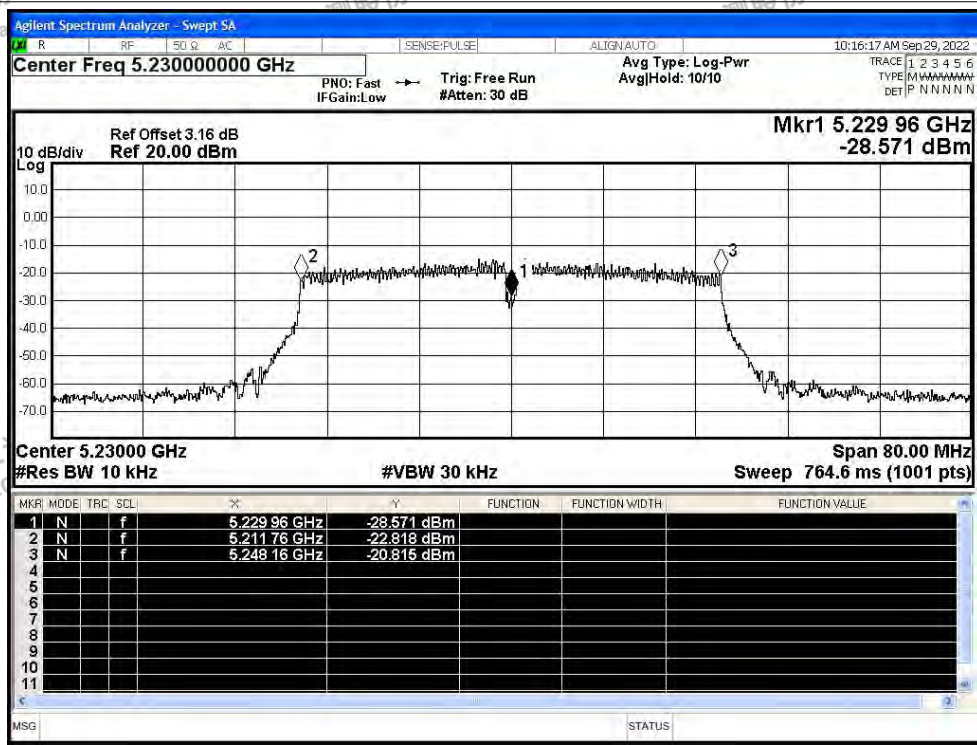




Freq. Stability NVNT n40 5190MHz Ant0

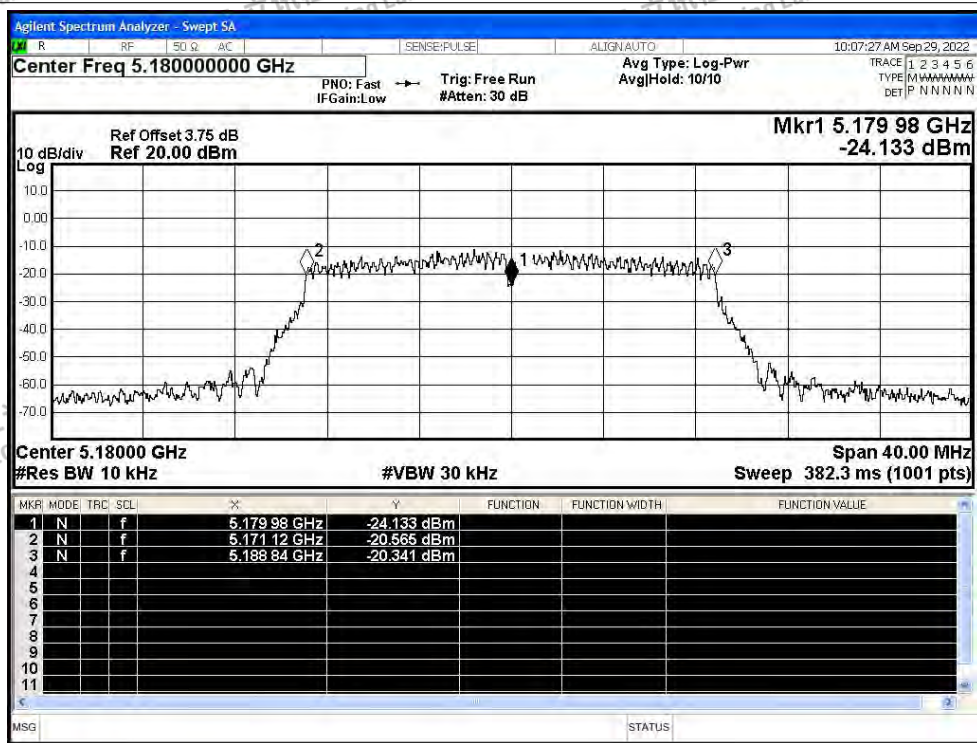


Freq. Stability NVNT n40 5230MHz Ant0

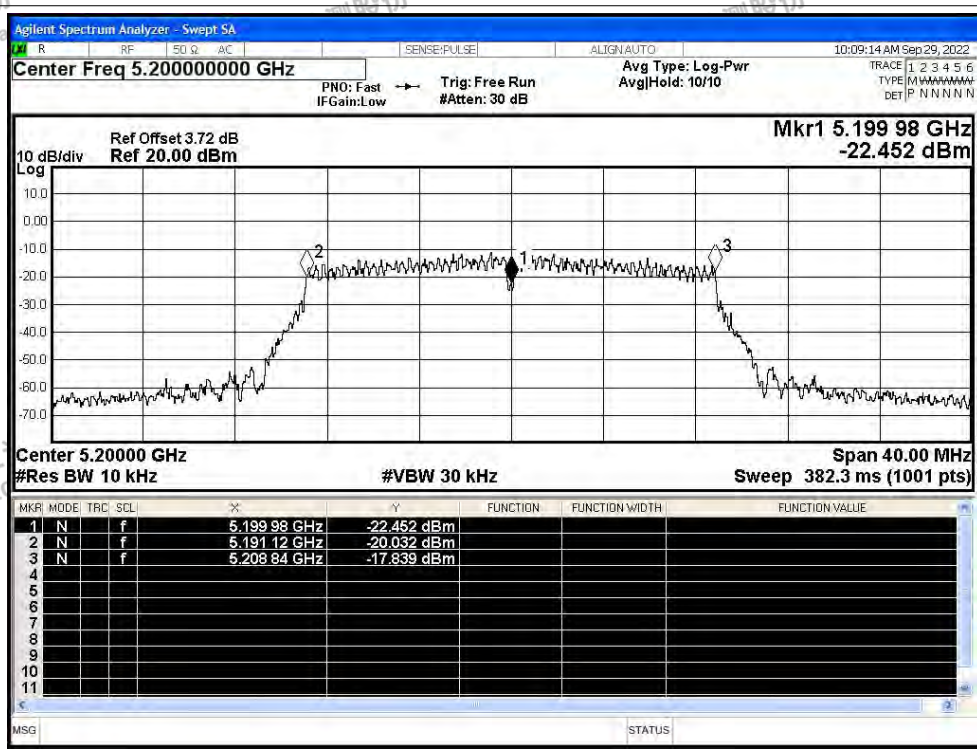




Freq. Stability NVNT ac20 5180MHz Ant0

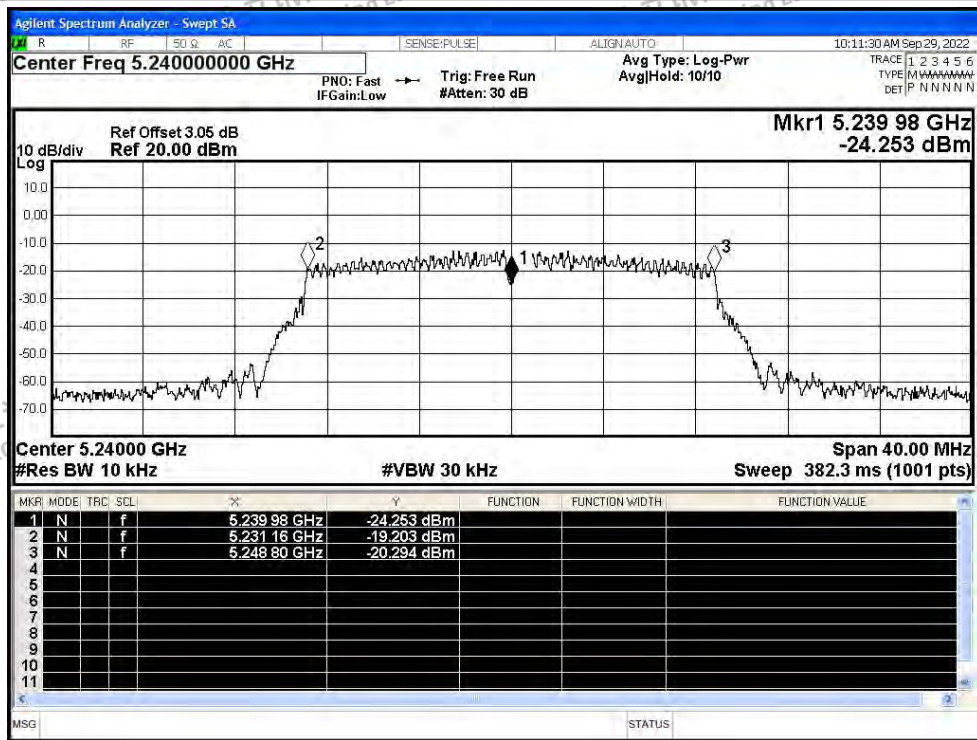


Freq. Stability NVNT ac20 5200MHz Ant0





Freq. Stability NVNT ac20 5240MHz Ant0



Freq. Stability NVNT ac40 5190MHz Ant0

