



Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Ambient Monitoring Sensor

Test Model: AMS-R2O-C

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng





E.1 -26dB Bandwidth

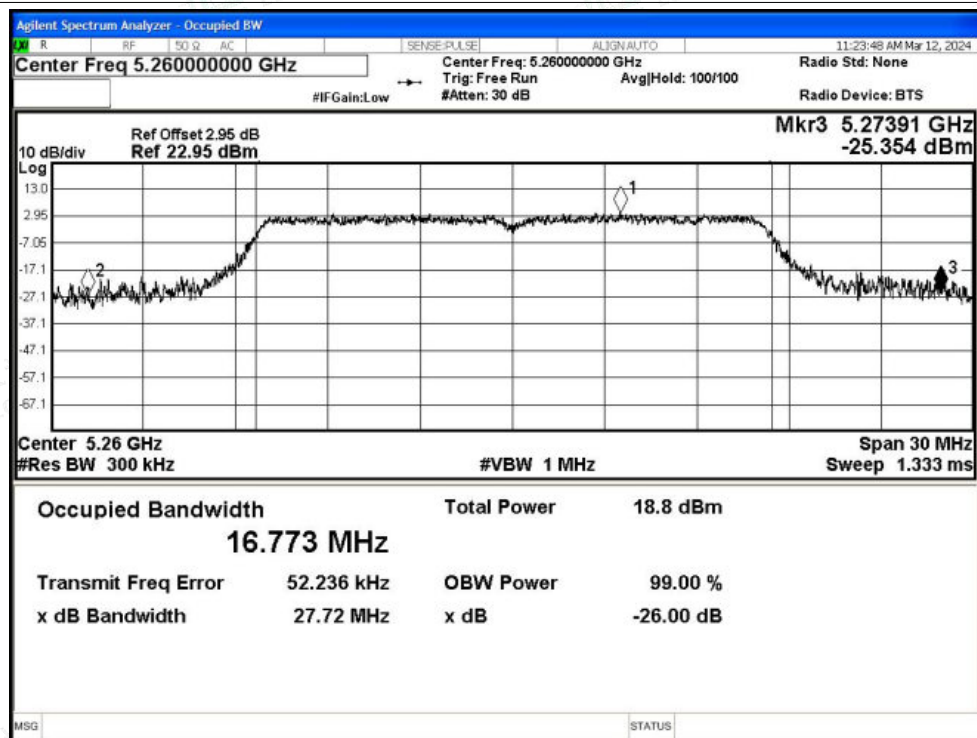
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	27.715	---	Pass
NVNT	a	5300	Ant1	28.507	---	Pass
NVNT	a	5320	Ant1	27.519	---	Pass
NVNT	n20	5260	Ant1	29.188	---	Pass
NVNT	n20	5300	Ant1	27.945	---	Pass
NVNT	n20	5320	Ant1	28.387	---	Pass
NVNT	n40	5270	Ant1	42.225	---	Pass
NVNT	n40	5310	Ant1	42.67	---	Pass
NVNT	ac20	5260	Ant1	27.068	---	Pass
NVNT	ac20	5300	Ant1	26.756	---	Pass
NVNT	ac20	5320	Ant1	26.737	---	Pass
NVNT	ac40	5270	Ant1	41.338	---	Pass
NVNT	ac40	5310	Ant1	47.628	---	Pass
NVNT	ac80	5290	Ant1	78.233	---	Pass



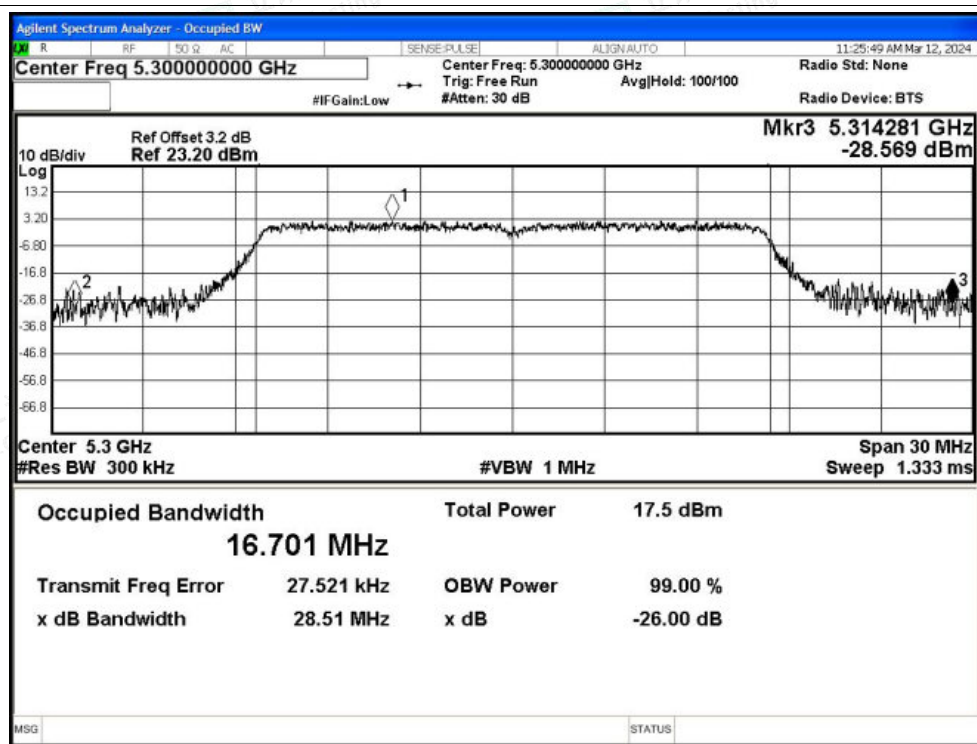


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1



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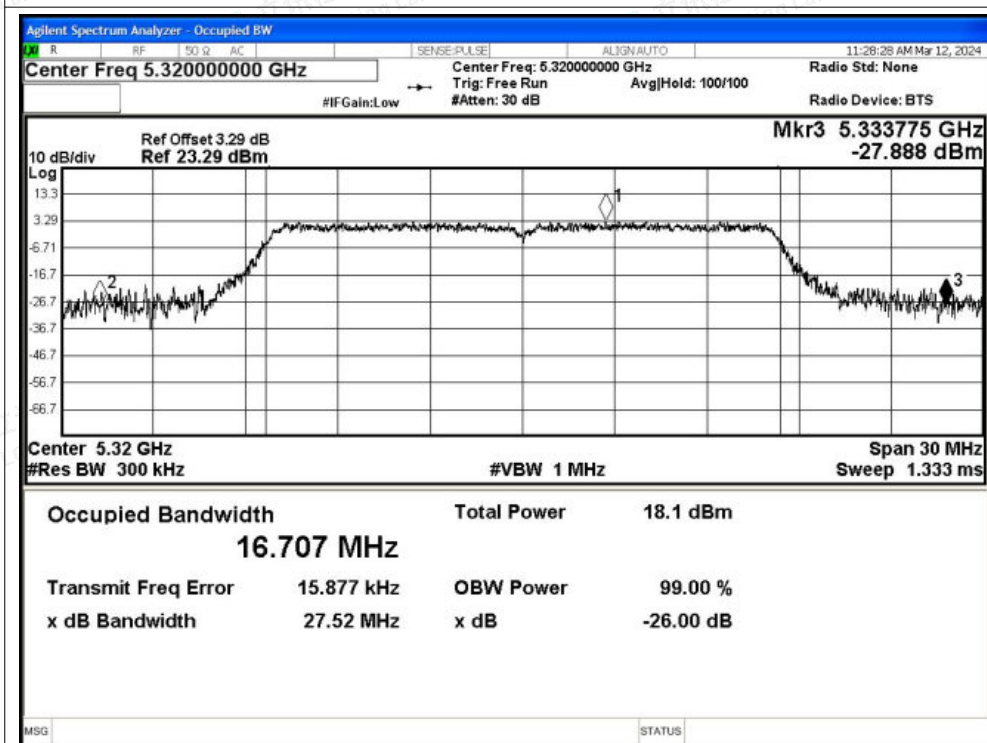
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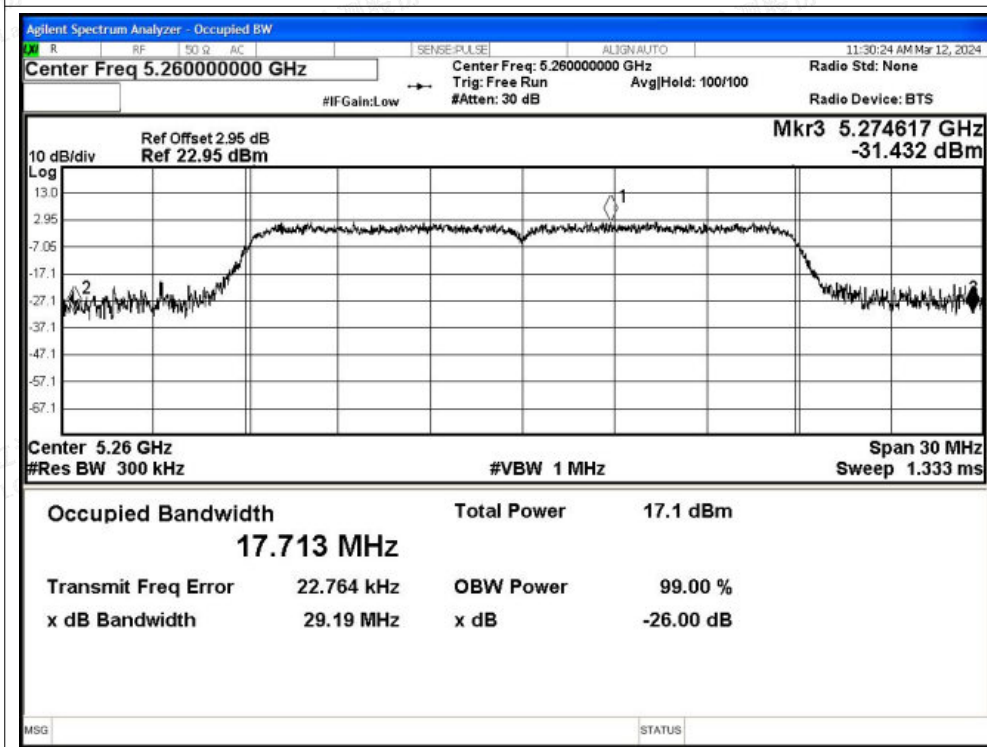
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-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1



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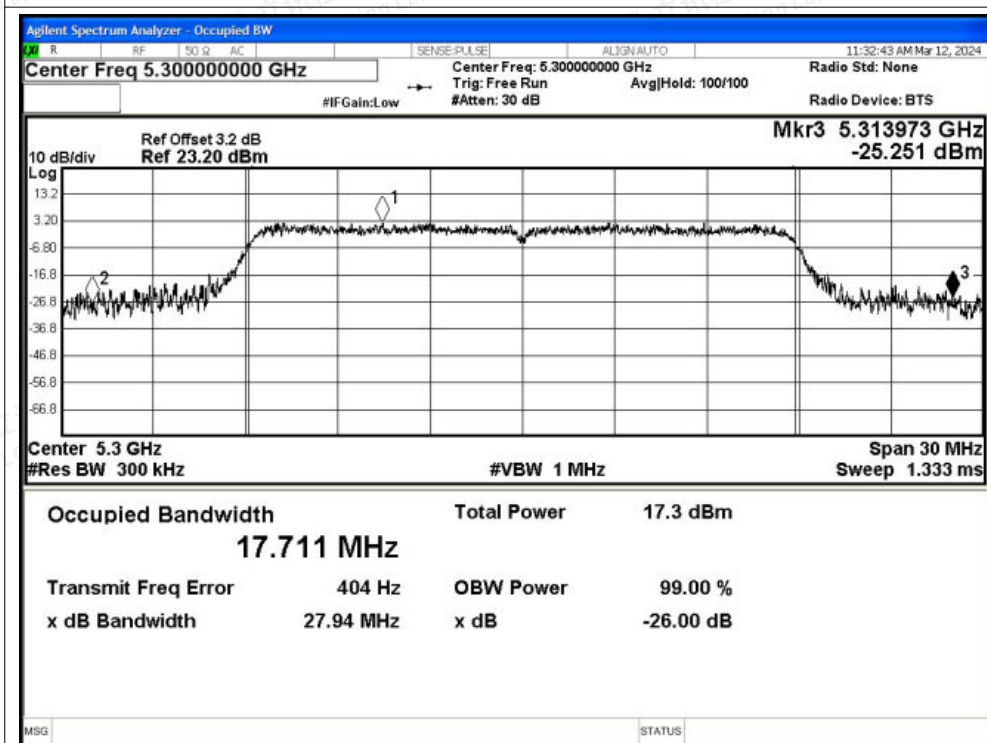
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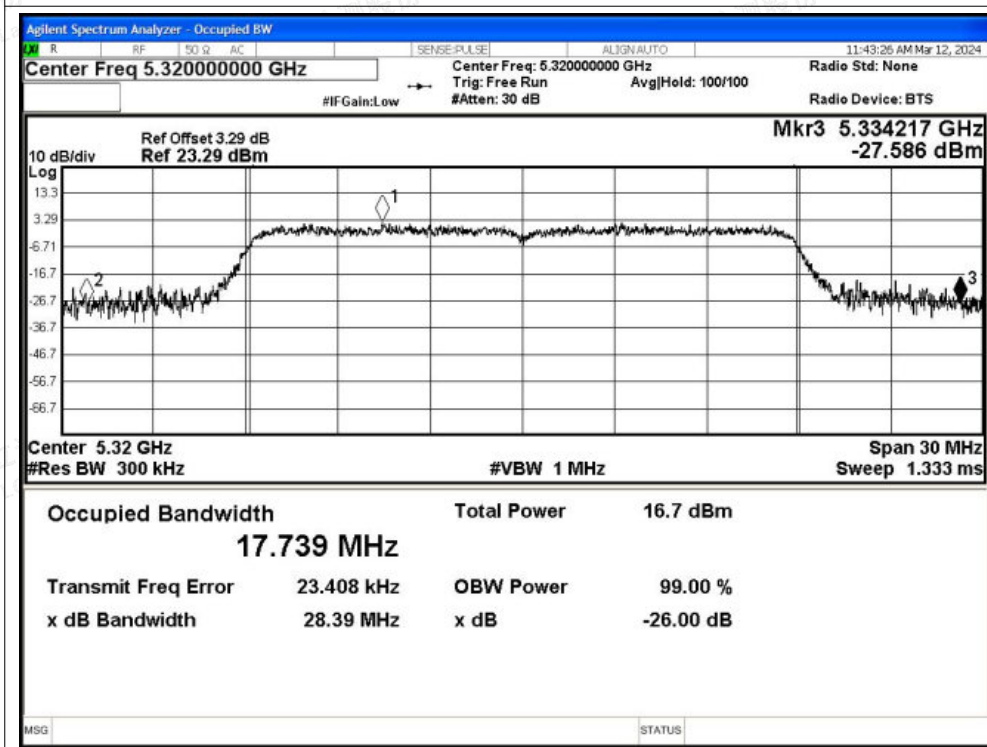
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-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



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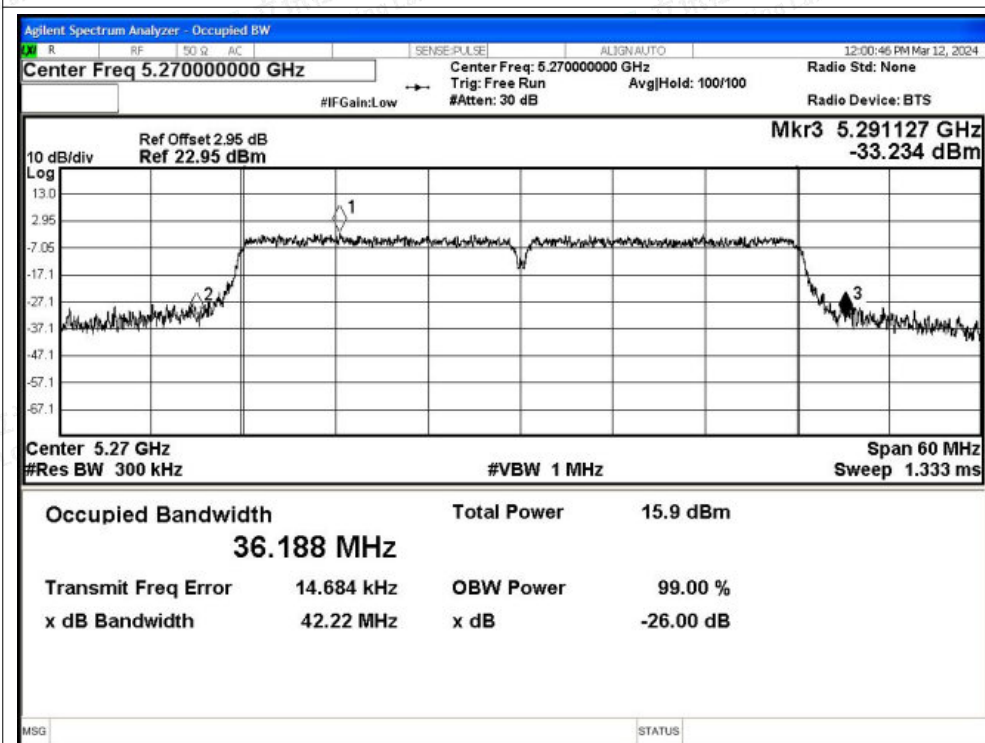
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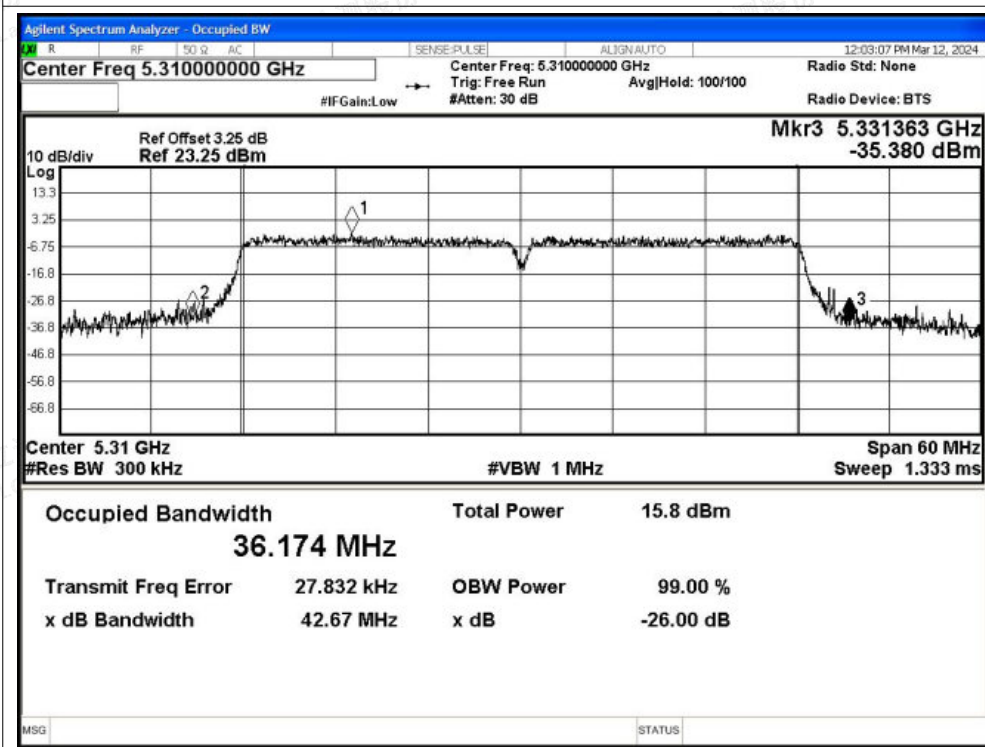
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-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



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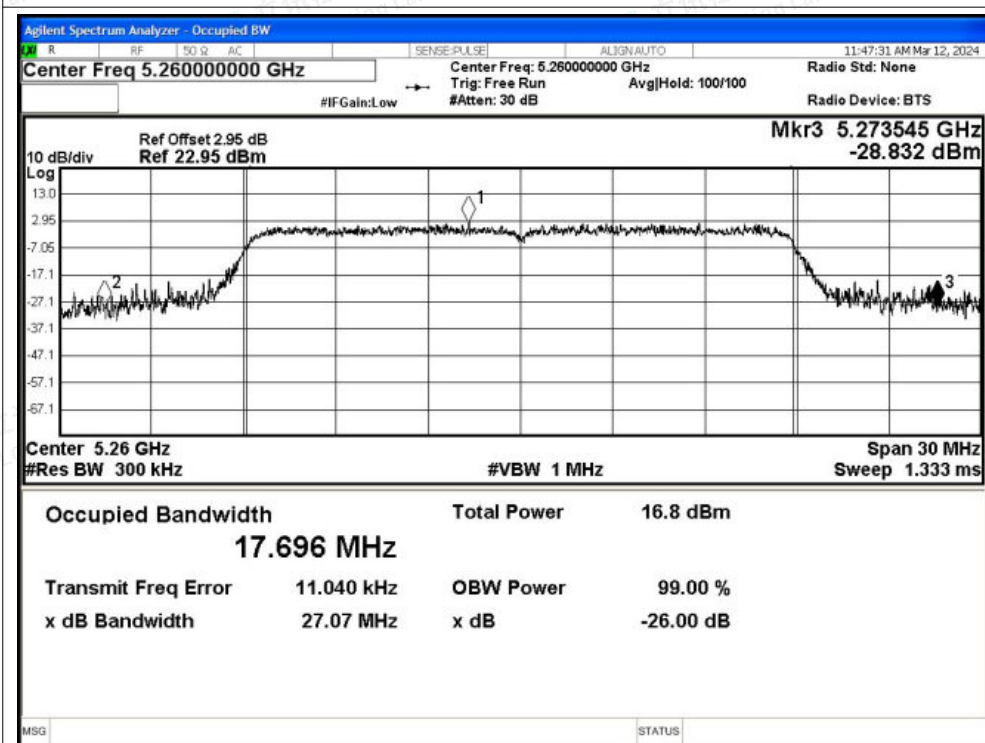
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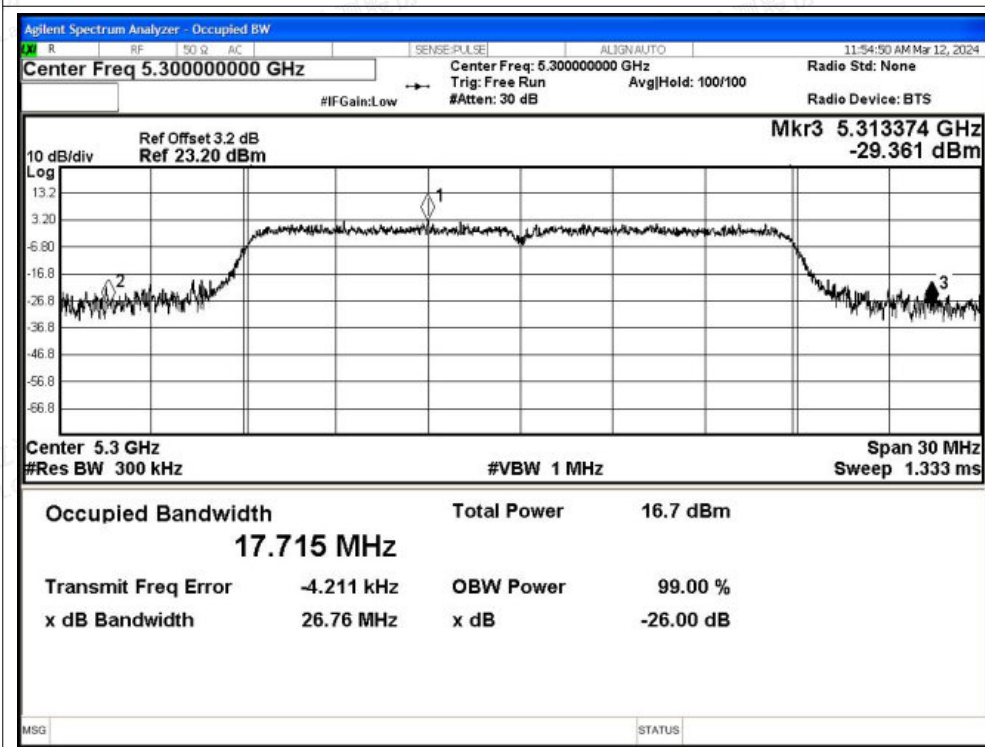
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-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1



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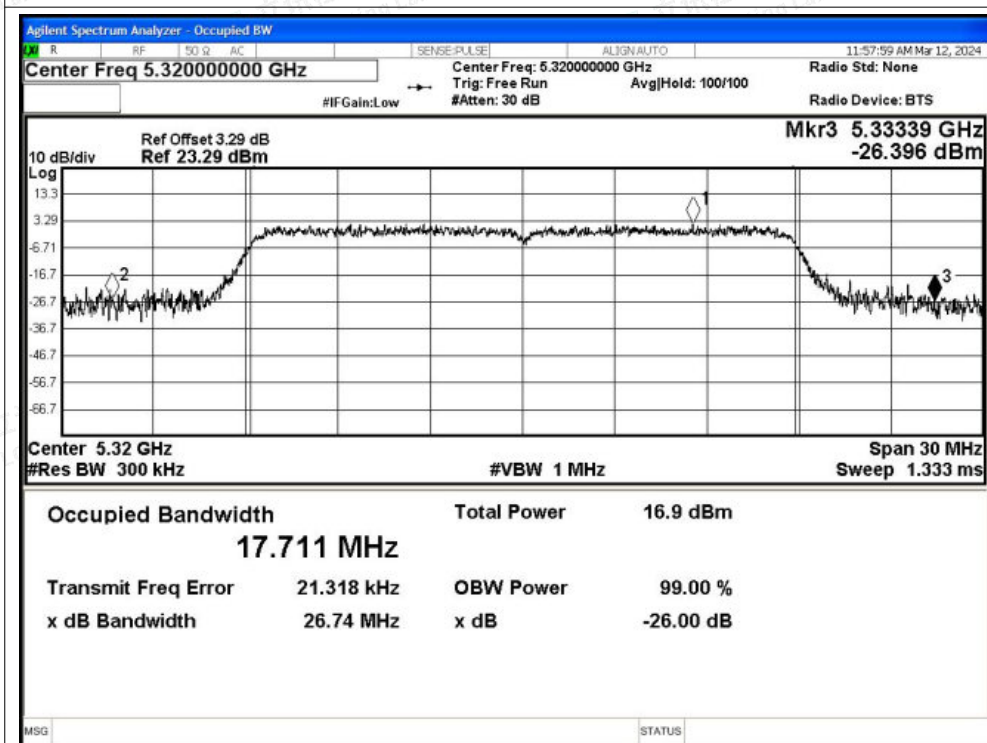
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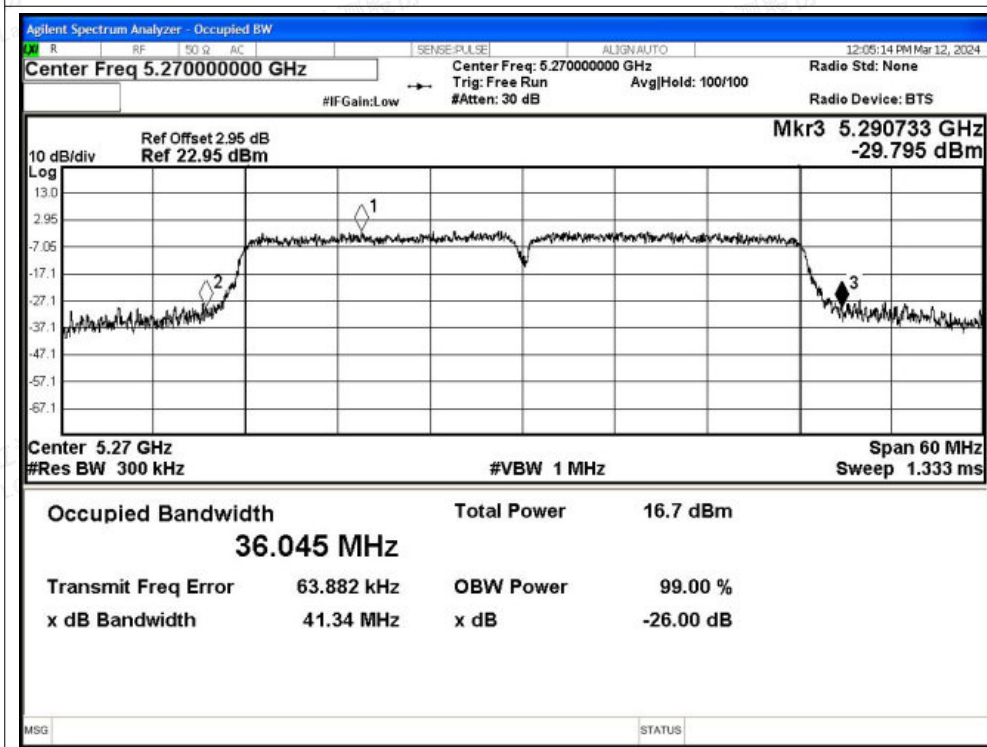
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-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



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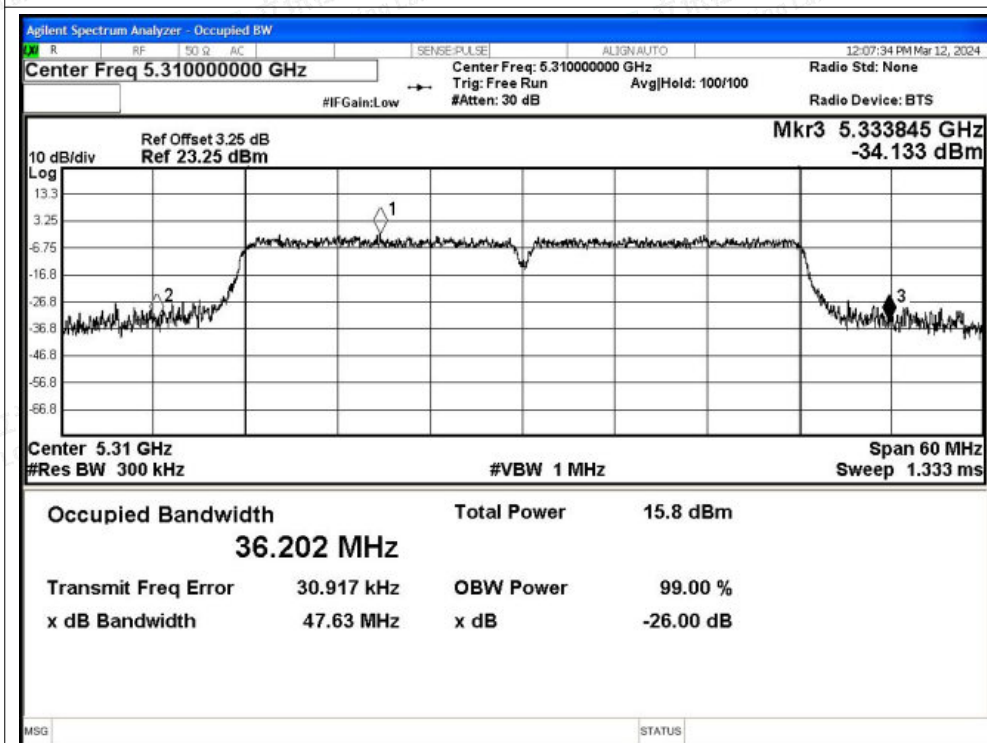
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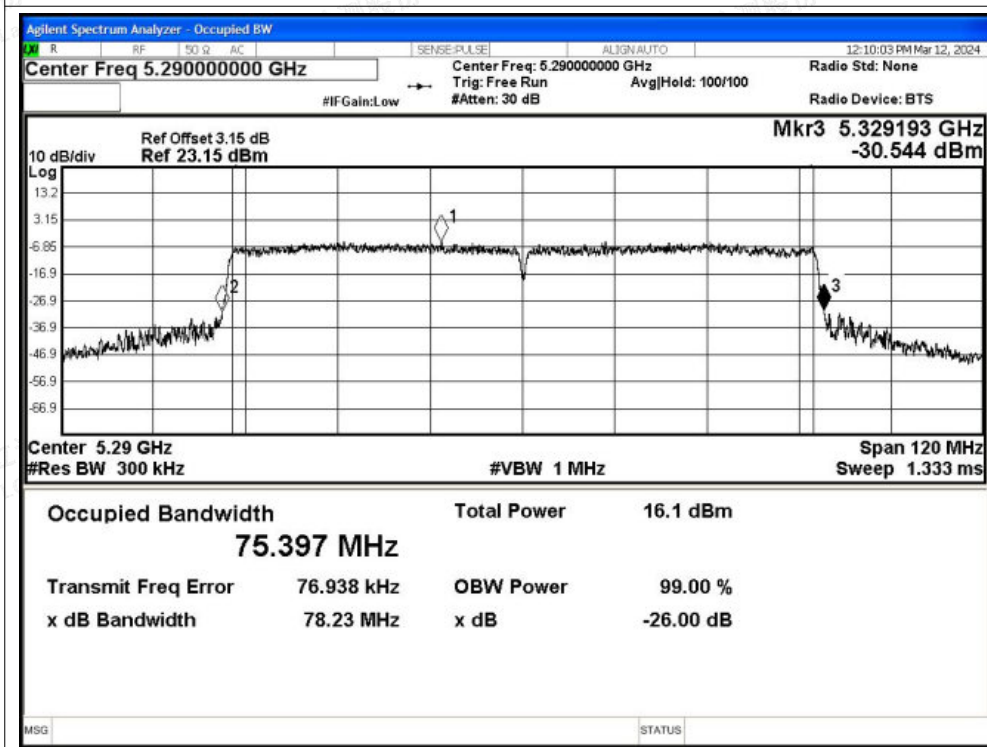
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-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant2	24.434	---	Pass
NVNT	a	5300	Ant2	22.82	---	Pass
NVNT	a	5320	Ant2	19.865	---	Pass
NVNT	n20	5260	Ant2	20.44	---	Pass
NVNT	n20	5300	Ant2	21.698	---	Pass
NVNT	n20	5320	Ant2	21.354	---	Pass
NVNT	n40	5270	Ant2	40.083	---	Pass
NVNT	n40	5310	Ant2	39.705	---	Pass
NVNT	ac20	5260	Ant2	20.203	---	Pass
NVNT	ac20	5300	Ant2	20.165	---	Pass
NVNT	ac20	5320	Ant2	20.353	---	Pass
NVNT	ac40	5270	Ant2	40.986	---	Pass
NVNT	ac40	5310	Ant2	40.113	---	Pass
NVNT	ac80	5290	Ant2	79.367	---	Pass

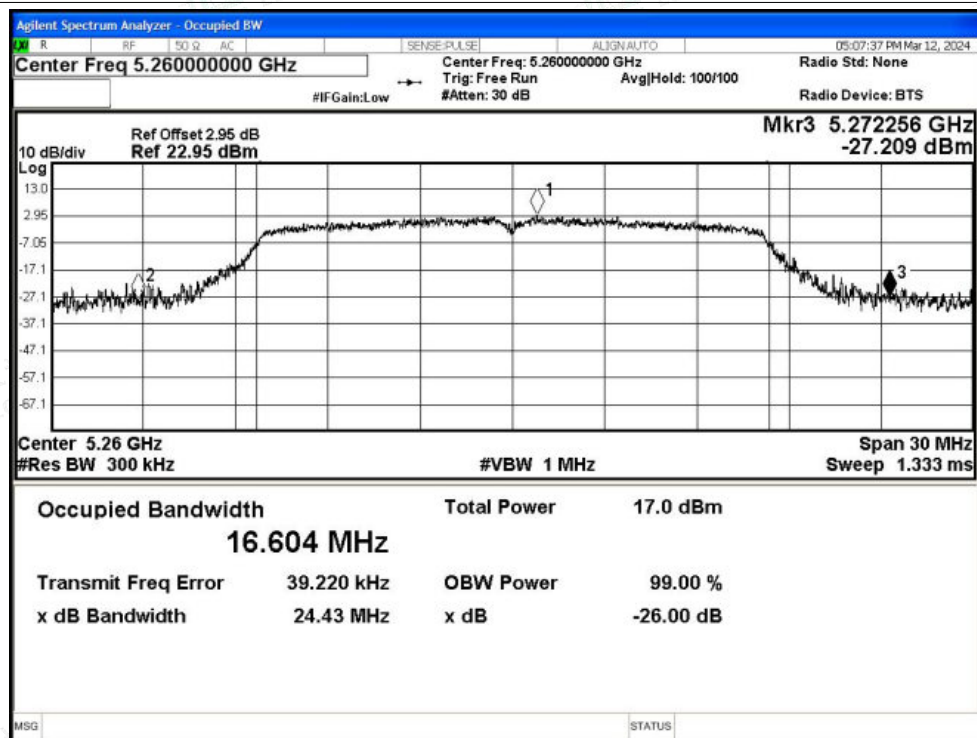


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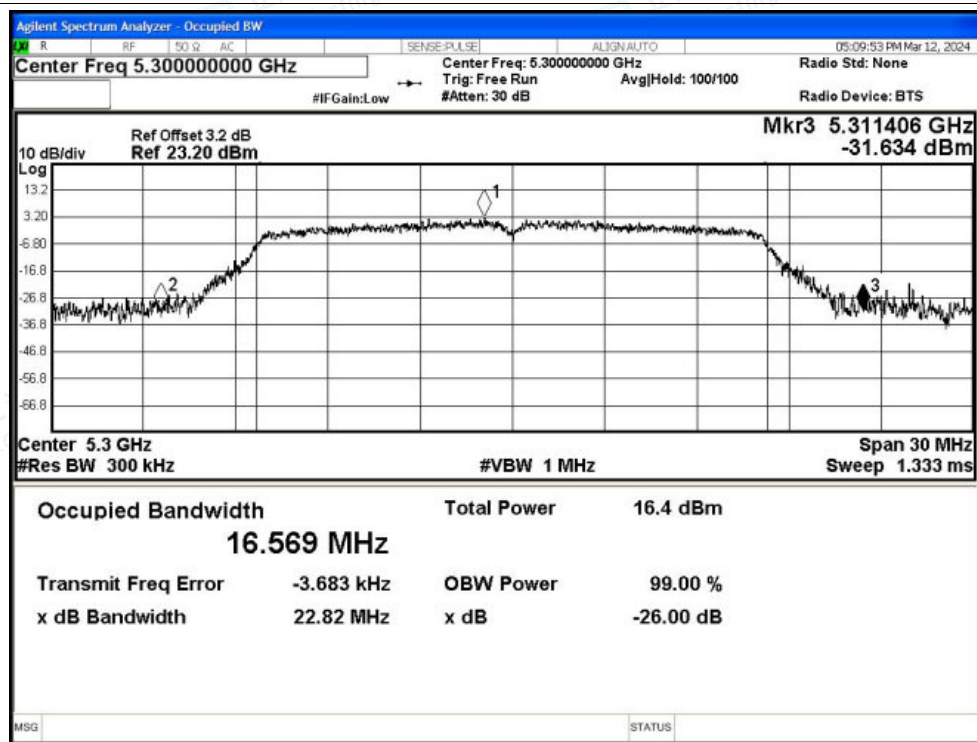


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant2



-26dB Bandwidth NVNT a 5300MHz Ant2



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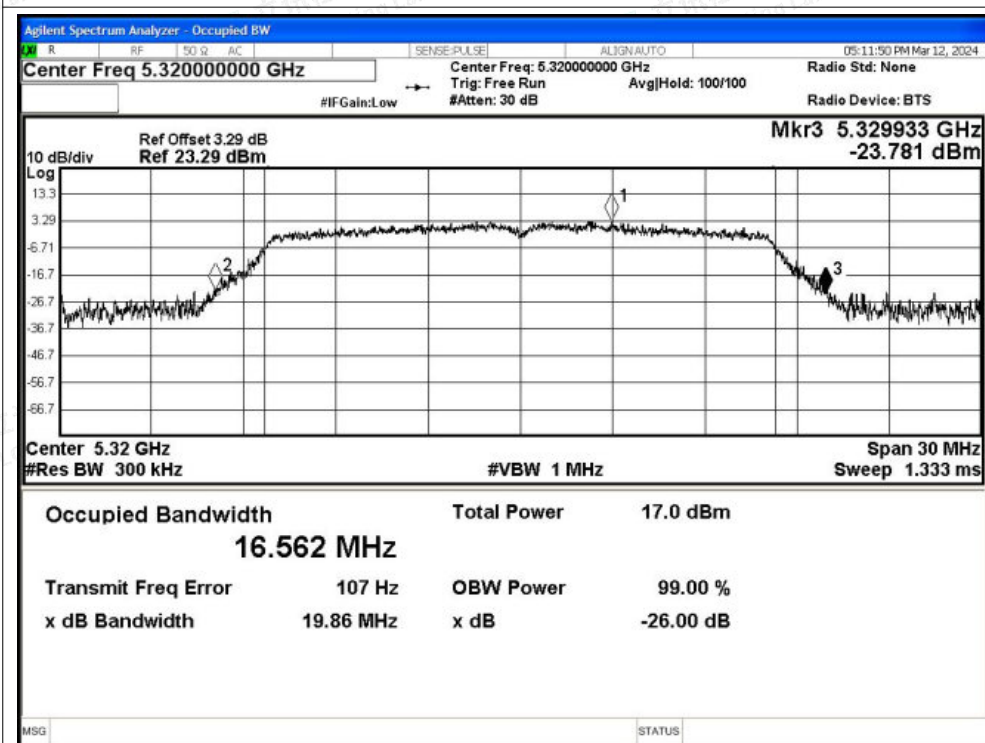
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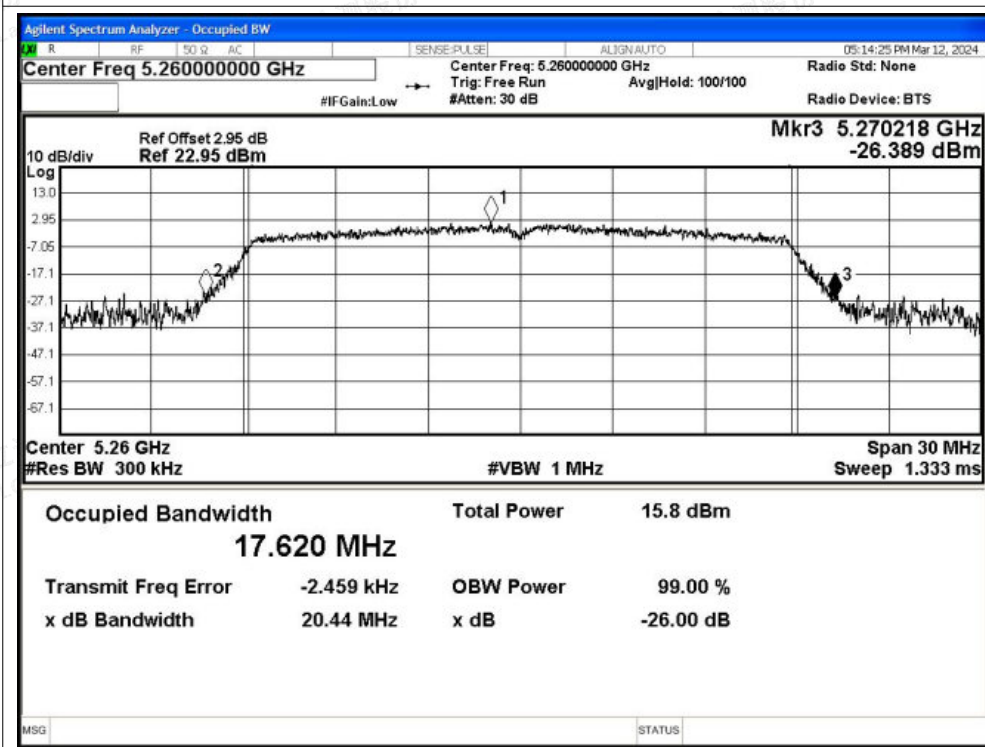
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-26dB Bandwidth NVNT a 5320MHz Ant2



-26dB Bandwidth NVNT n20 5260MHz Ant2



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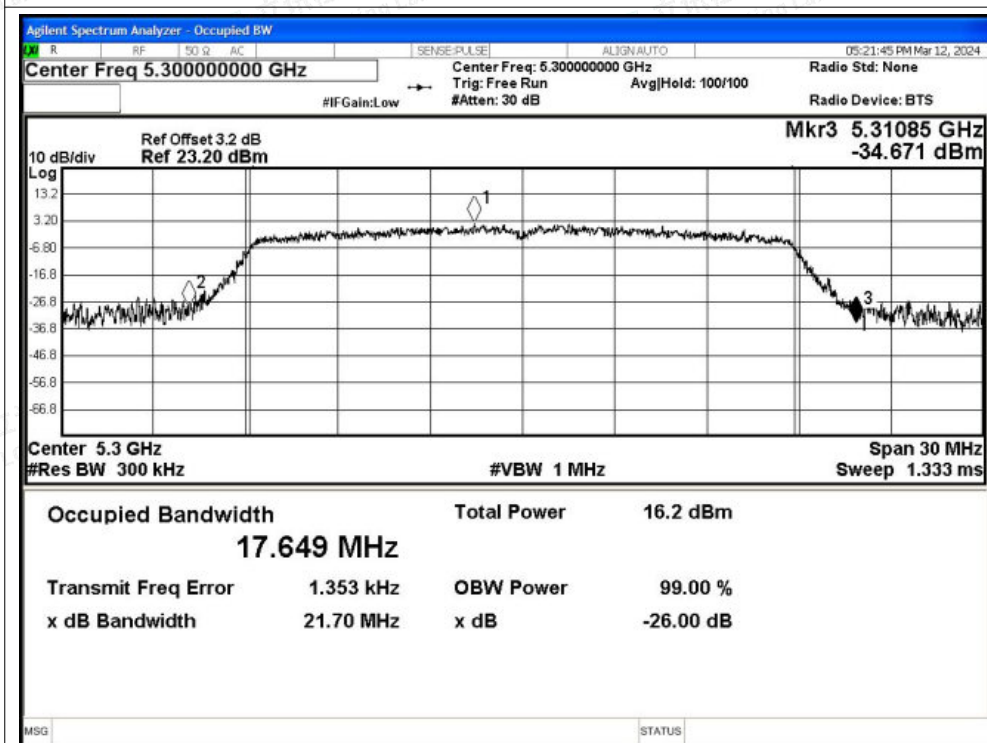
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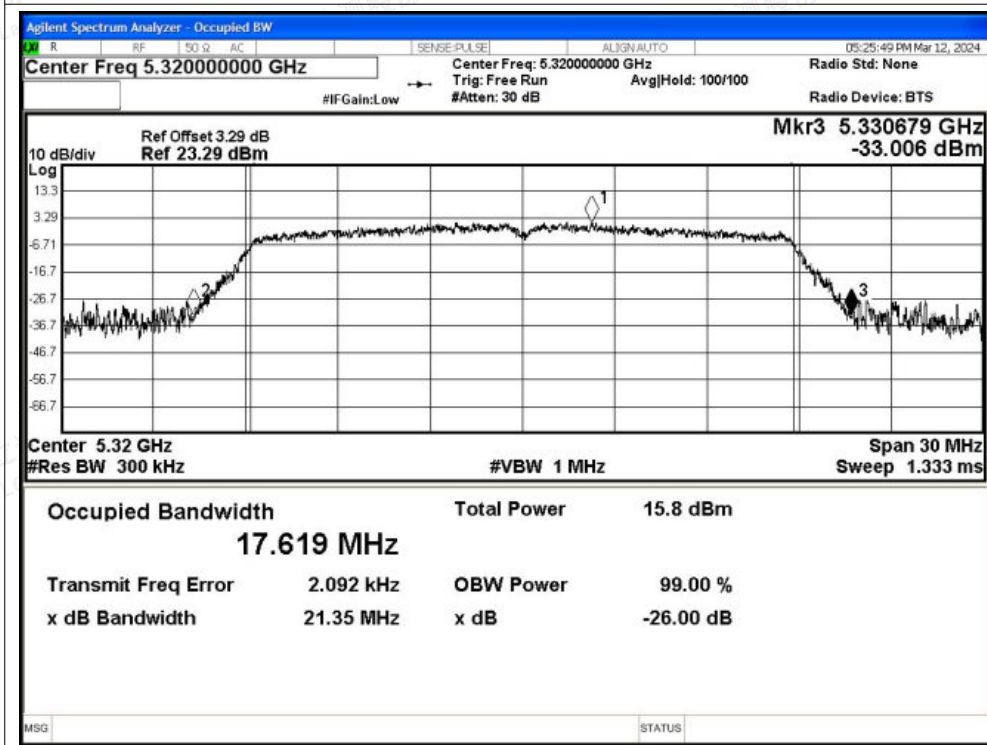
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-26dB Bandwidth NVNT n20 5300MHz Ant2



-26dB Bandwidth NVNT n20 5320MHz Ant2



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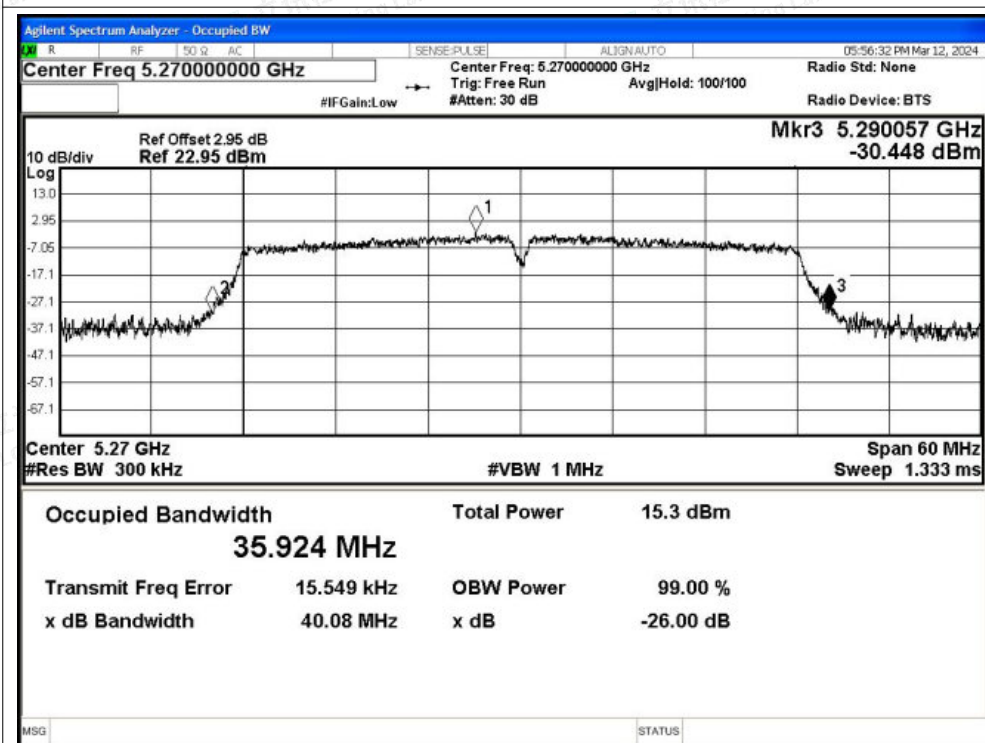
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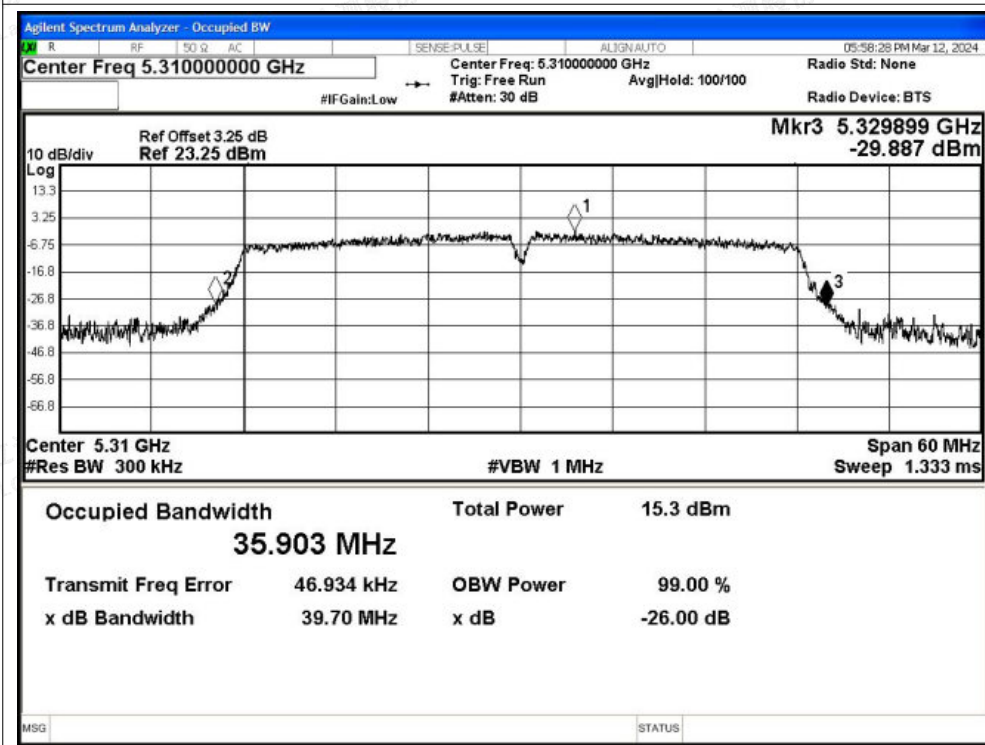
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-26dB Bandwidth NVNT n40 5270MHz Ant2



-26dB Bandwidth NVNT n40 5310MHz Ant2



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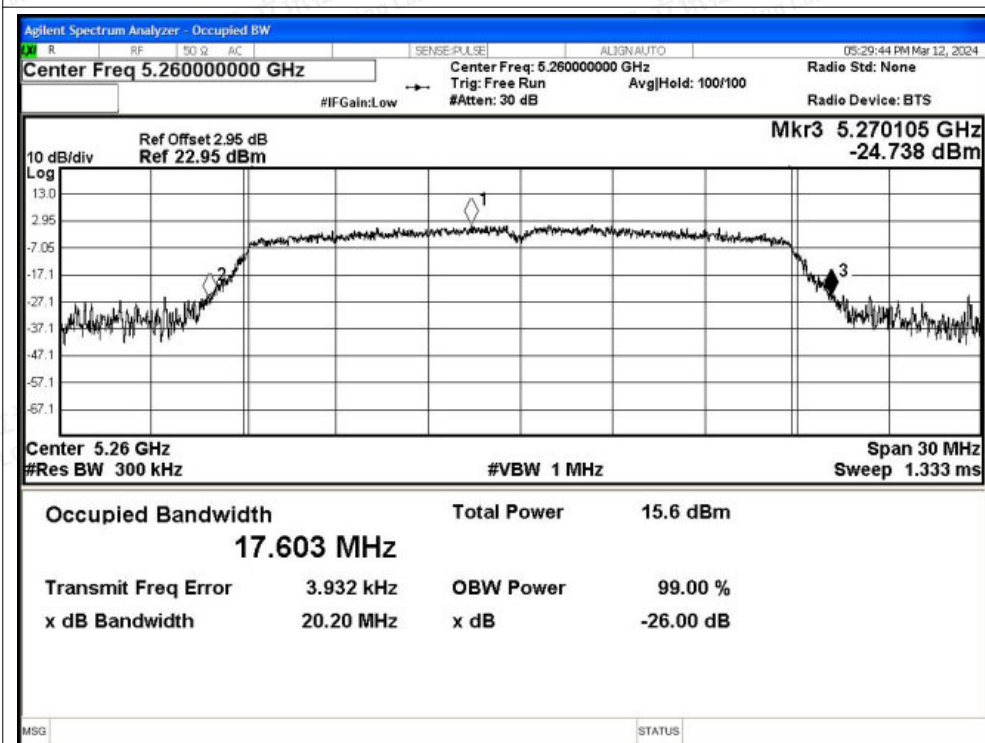
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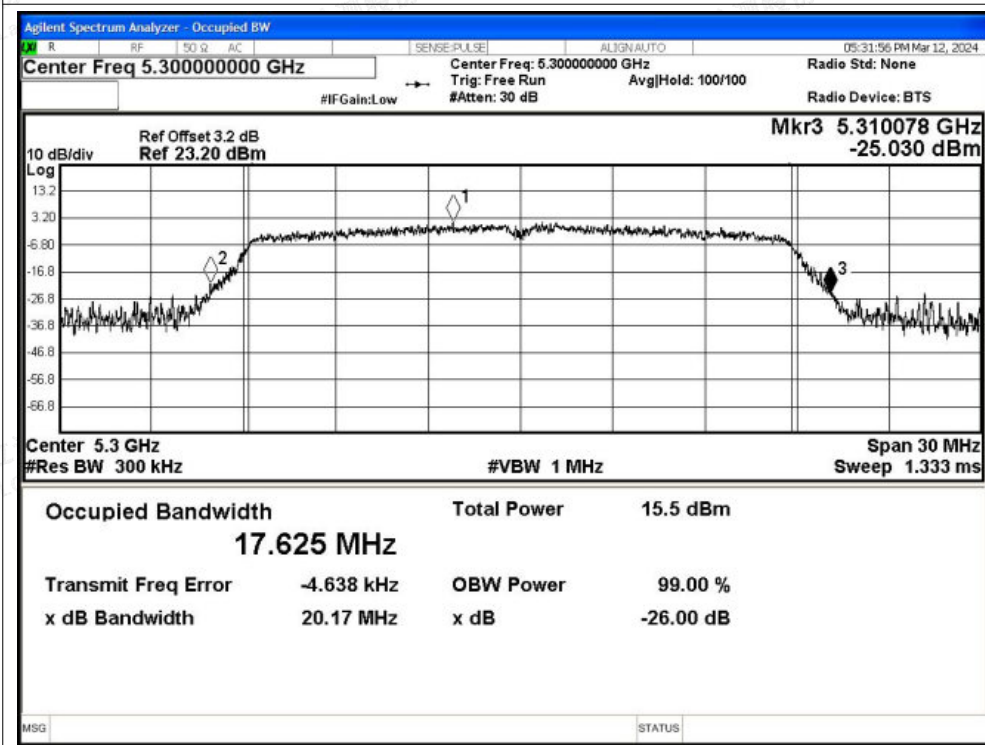
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-26dB Bandwidth NVNT ac20 5260MHz Ant2



-26dB Bandwidth NVNT ac20 5300MHz Ant2



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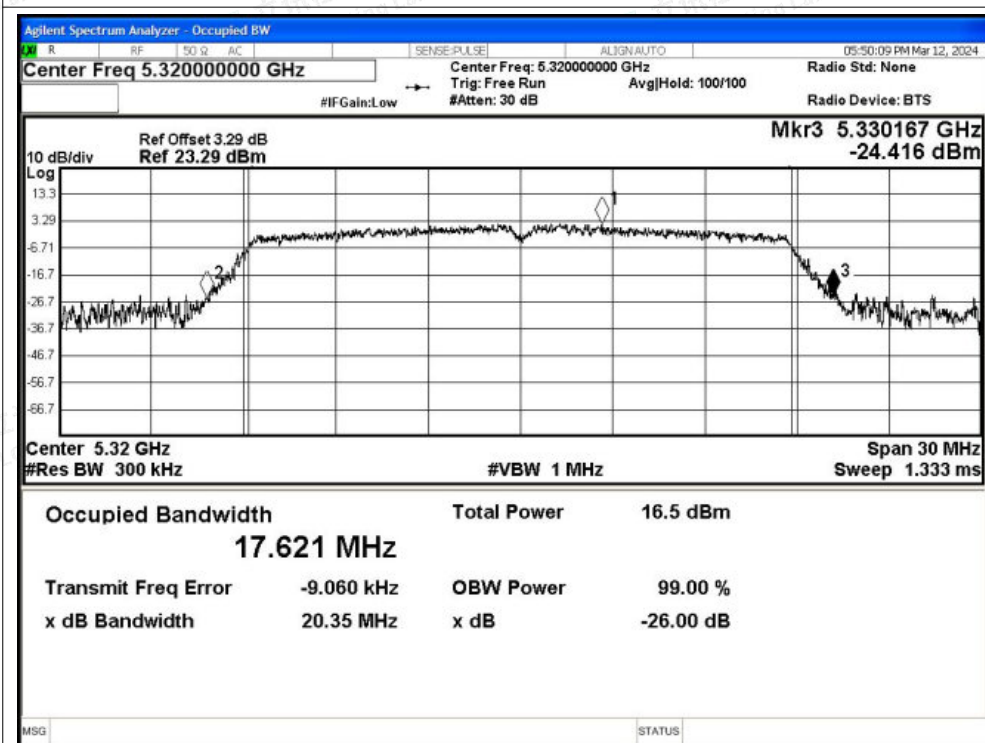
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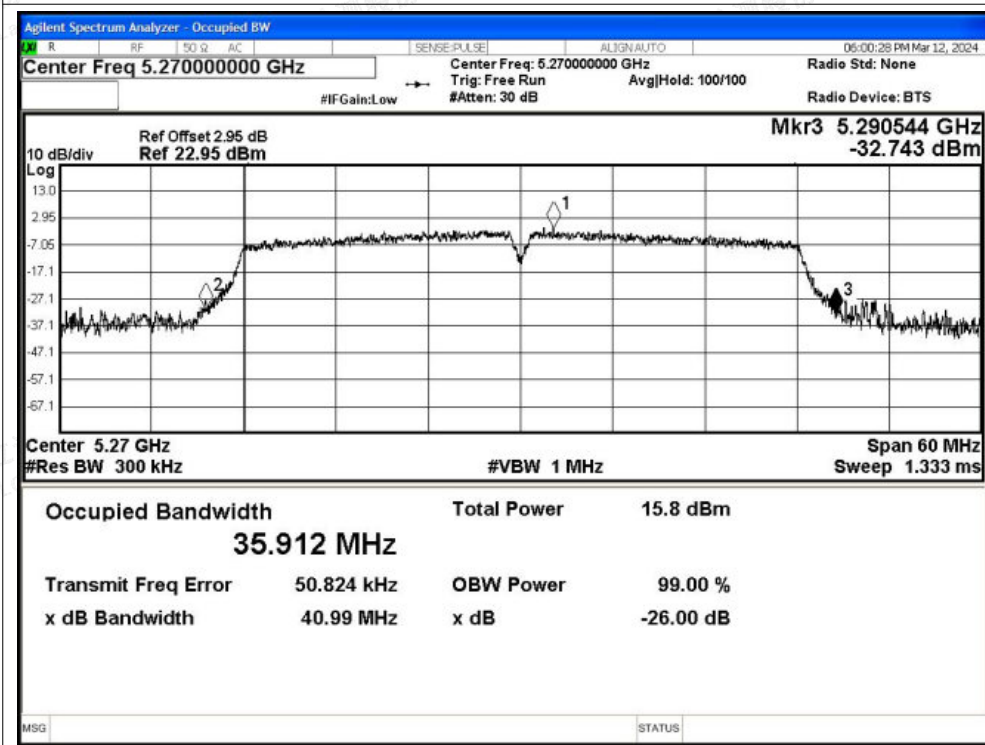
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-26dB Bandwidth NVNT ac20 5320MHz Ant2



-26dB Bandwidth NVNT ac40 5270MHz Ant2



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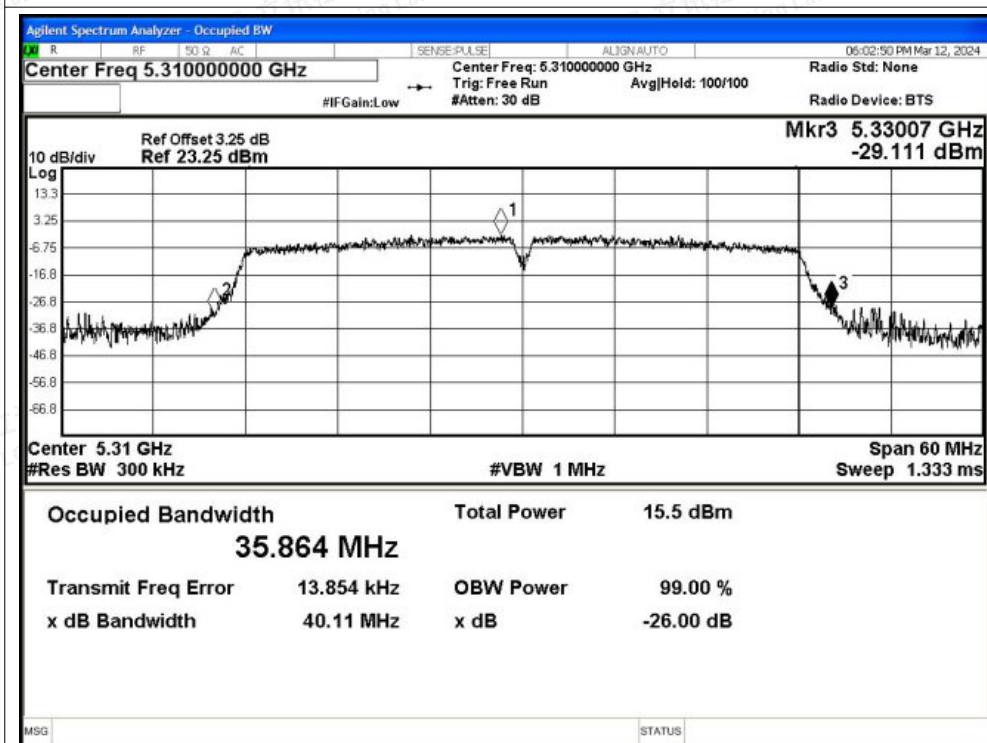
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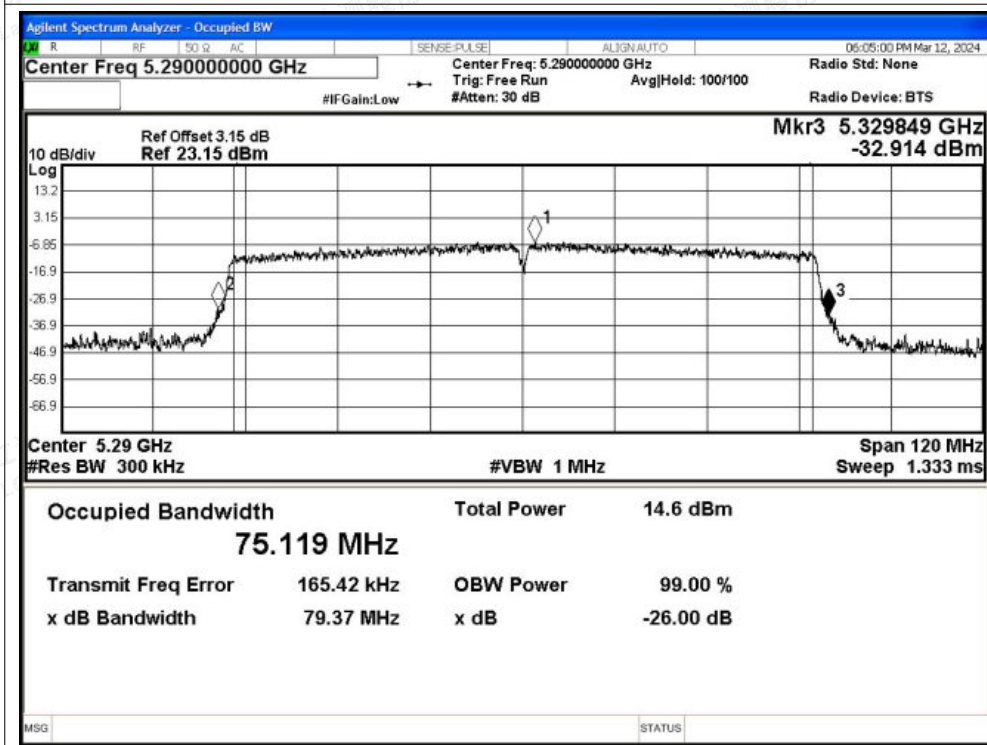
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-26dB Bandwidth NVNT ac40 5310MHz Ant2



-26dB Bandwidth NVNT ac80 5290MHz Ant2



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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.95	0.1	13.05	24	Pass
NVNT	a	5300	Ant1	12.04	0.1	12.14	24	Pass
NVNT	a	5320	Ant1	12.07	0.1	12.17	24	Pass
NVNT	n20	5260	Ant1	11.23	0.12	11.35	24	Pass
NVNT	n20	5300	Ant1	11.83	0.12	11.95	24	Pass
NVNT	n20	5320	Ant1	11.27	0.12	11.39	24	Pass
NVNT	n40	5270	Ant1	10.09	0.24	10.33	24	Pass
NVNT	n40	5310	Ant1	10.11	0.24	10.35	24	Pass
NVNT	ac20	5260	Ant1	11.03	0.12	11.15	24	Pass
NVNT	ac20	5300	Ant1	11.15	0.12	11.27	24	Pass
NVNT	ac20	5320	Ant1	11.43	0.12	11.55	24	Pass
NVNT	ac40	5270	Ant1	10.88	0.23	11.11	24	Pass
NVNT	ac40	5310	Ant1	10.04	0.24	10.28	24	Pass
NVNT	ac80	5290	Ant1	9.82	0.47	10.29	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant2	11.45	0	11.45	24	Pass
NVNT	a	5300	Ant2	11.15	0	11.15	24	Pass
NVNT	a	5320	Ant2	11.18	0	11.18	24	Pass
NVNT	n20	5260	Ant2	10.16	0.09	10.25	24	Pass
NVNT	n20	5300	Ant2	10.51	0.09	10.6	24	Pass
NVNT	n20	5320	Ant2	10.23	0.09	10.32	24	Pass
NVNT	n40	5270	Ant2	9.57	0.18	9.75	24	Pass
NVNT	n40	5310	Ant2	9.32	0.18	9.5	24	Pass
NVNT	ac20	5260	Ant2	10	0.09	10.09	24	Pass
NVNT	ac20	5300	Ant2	10.31	0.1	10.41	24	Pass
NVNT	ac20	5320	Ant2	10.4	0.09	10.49	24	Pass
NVNT	ac40	5270	Ant2	9.55	0.19	9.74	24	Pass
NVNT	ac40	5310	Ant2	9.3	0.18	9.48	24	Pass
NVNT	ac80	5290	Ant2	8.13	0.38	8.51	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5260	11.35	10.25	13.85	21.18	Pass
NVNT	n20	5300	11.95	10.6	14.34	21.18	Pass
NVNT	n20	5320	11.39	10.32	13.90	21.18	Pass
NVNT	n40	5270	10.33	9.75	13.06	21.18	Pass
NVNT	n40	5310	10.35	9.5	12.96	21.18	Pass
NVNT	ac20	5260	11.15	10.09	13.66	21.18	Pass
NVNT	ac20	5300	11.27	10.41	13.87	21.18	Pass
NVNT	ac20	5320	11.55	10.49	14.06	21.18	Pass
NVNT	ac40	5270	11.11	9.74	13.49	21.18	Pass
NVNT	ac40	5310	10.28	9.48	12.91	21.18	Pass
NVNT	ac80	5290	10.29	8.51	12.50	21.18	Pass



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E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	2.54	0.1	2.64	11	Pass
NVNT	a	5300	Ant1	1.35	0.1	1.45	11	Pass
NVNT	a	5320	Ant1	1.88	0.1	1.98	11	Pass
NVNT	n20	5260	Ant1	0.97	0.12	1.09	11	Pass
NVNT	n20	5300	Ant1	0.87	0.12	0.99	11	Pass
NVNT	n20	5320	Ant1	0.28	0.12	0.4	11	Pass
NVNT	n40	5270	Ant1	-3.55	0.24	-3.31	11	Pass
NVNT	n40	5310	Ant1	-3.71	0.24	-3.47	11	Pass
NVNT	ac20	5260	Ant1	0.43	0.12	0.55	11	Pass
NVNT	ac20	5300	Ant1	0.38	0.12	0.5	11	Pass
NVNT	ac20	5320	Ant1	0.44	0.12	0.56	11	Pass
NVNT	ac40	5270	Ant1	-2.89	0.23	-2.66	11	Pass
NVNT	ac40	5310	Ant1	-3.77	0.24	-3.53	11	Pass
NVNT	ac80	5290	Ant1	-6.88	0.47	-6.41	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant2	1.89	0	1.89	11	Pass
NVNT	a	5300	Ant2	1.19	0	1.19	11	Pass
NVNT	a	5320	Ant2	1.84	0	1.84	11	Pass
NVNT	n20	5260	Ant2	0.57	0.09	0.66	11	Pass
NVNT	n20	5300	Ant2	0.72	0.09	0.81	11	Pass
NVNT	n20	5320	Ant2	0.39	0.09	0.48	11	Pass
NVNT	n40	5270	Ant2	-3.17	0.18	-2.99	11	Pass
NVNT	n40	5310	Ant2	-2.72	0.18	-2.54	11	Pass
NVNT	ac20	5260	Ant2	0.24	0.09	0.33	11	Pass
NVNT	ac20	5300	Ant2	0.26	0.1	0.36	11	Pass
NVNT	ac20	5320	Ant2	0.94	0.09	1.03	11	Pass
NVNT	ac40	5270	Ant2	-2.78	0.19	-2.59	11	Pass
NVNT	ac40	5310	Ant2	-3.06	0.18	-2.88	11	Pass
NVNT	ac80	5290	Ant2	-7.33	0.38	-6.95	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5260	1.09	0.66	3.89	8.18	Pass
NVNT	n20	5300	0.99	0.81	3.91	8.18	Pass
NVNT	n20	5320	0.4	0.48	3.45	8.18	Pass
NVNT	n40	5270	-3.31	-2.99	-0.14	8.18	Pass
NVNT	n40	5310	-3.47	-2.54	0.03	8.18	Pass
NVNT	ac20	5260	0.55	0.33	3.45	8.18	Pass
NVNT	ac20	5300	0.5	0.36	3.44	8.18	Pass
NVNT	ac20	5320	0.56	1.03	3.81	8.18	Pass
NVNT	ac40	5270	-2.66	-2.59	0.39	8.18	Pass
NVNT	ac40	5310	-3.53	-2.88	-0.18	8.18	Pass
NVNT	ac80	5290	-6.41	-6.95	-3.66	8.18	Pass



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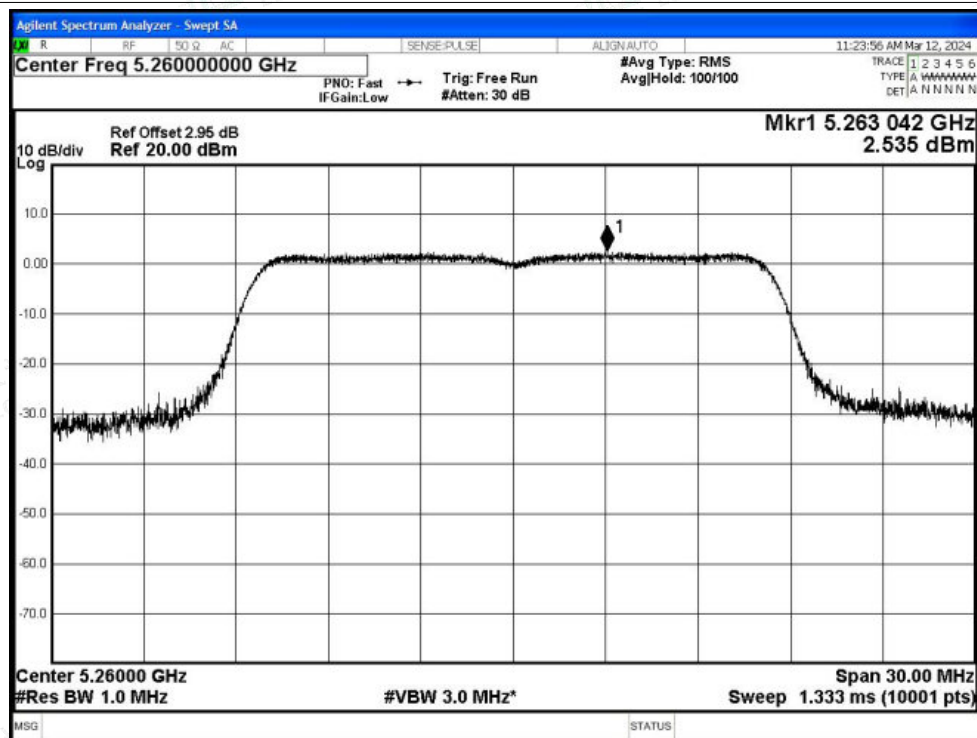
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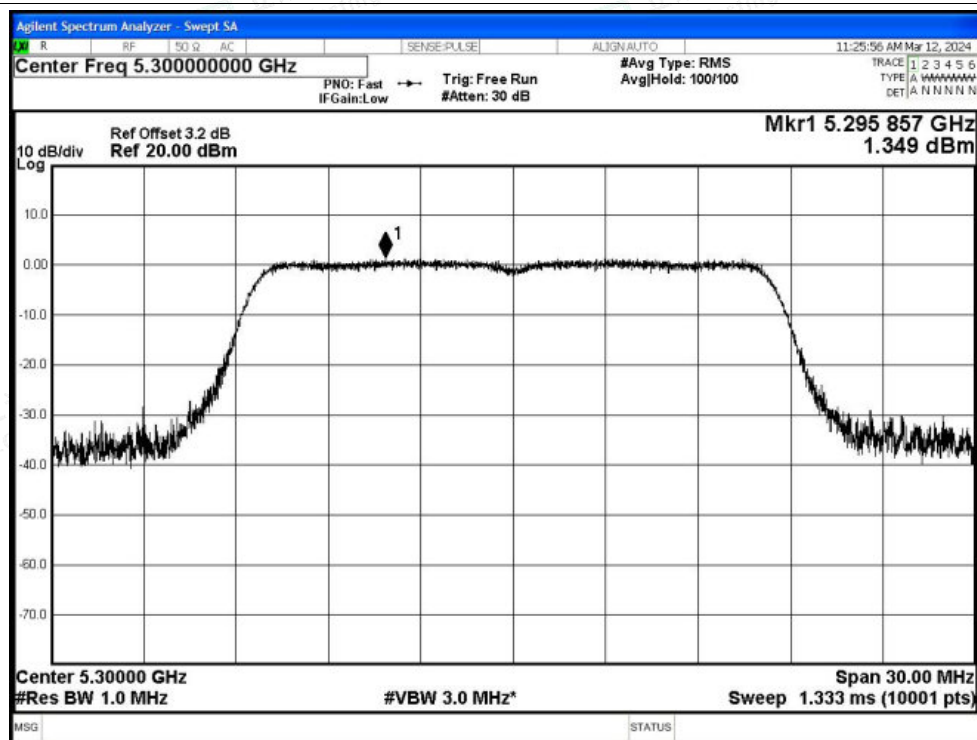


Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5300MHz Ant1



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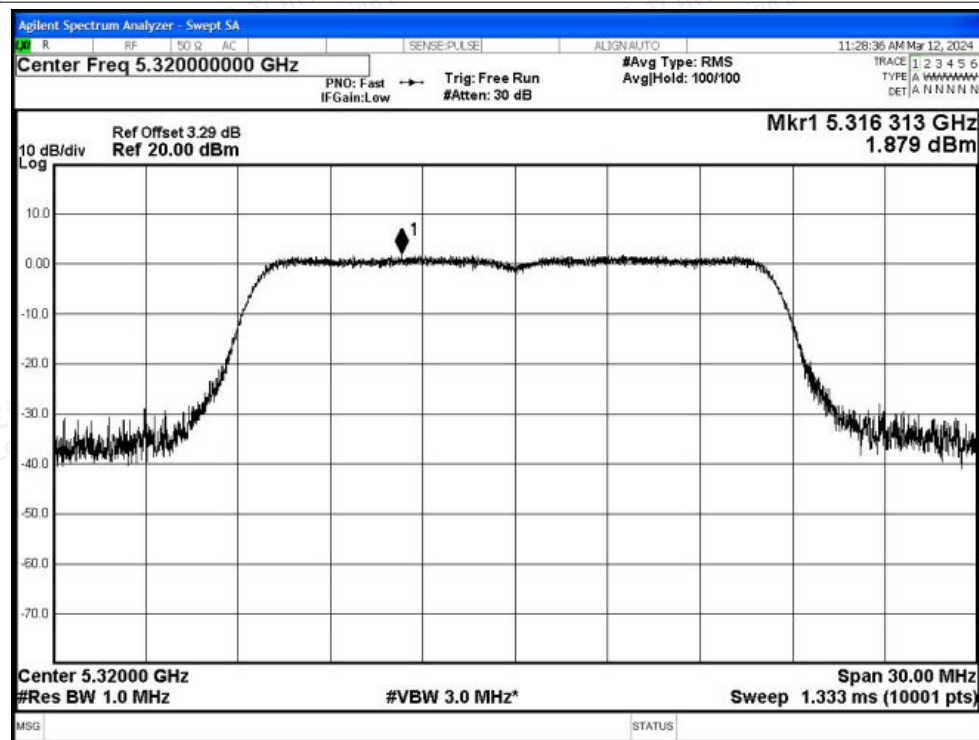
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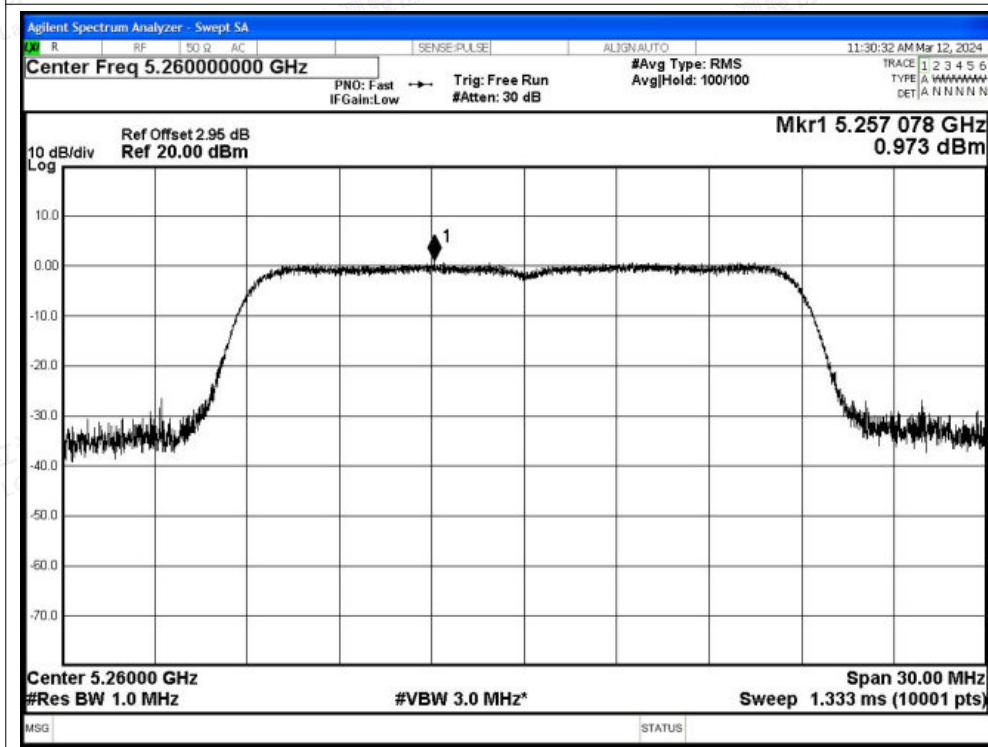
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PSD NVNT a 5320MHz Ant1

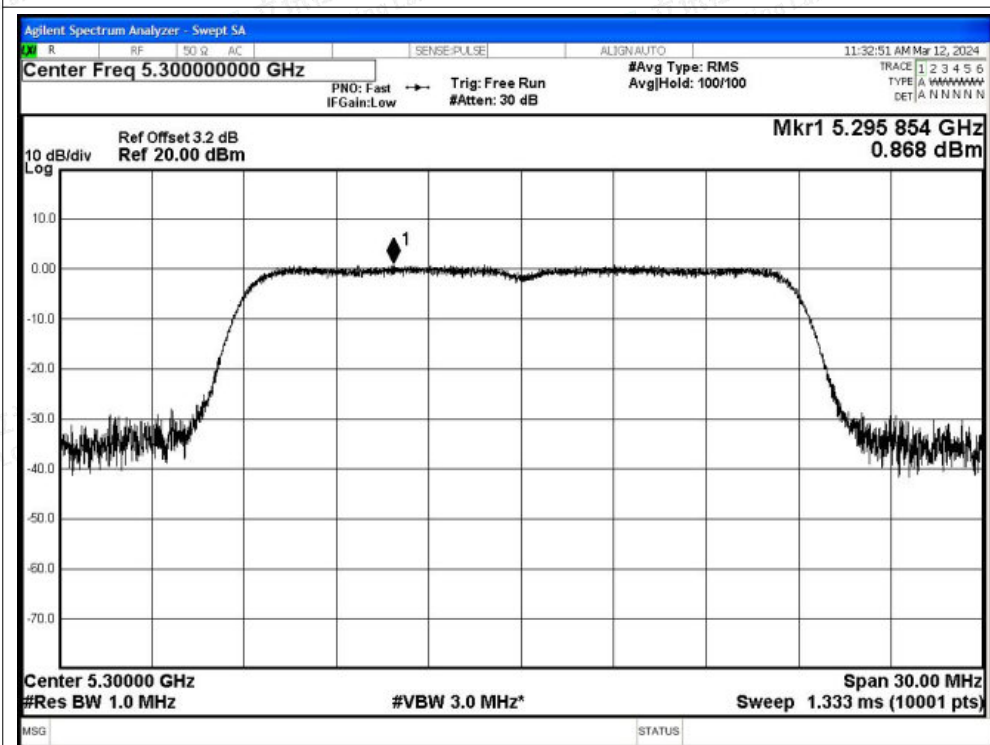


PSD NVNT n20 5260MHz Ant1

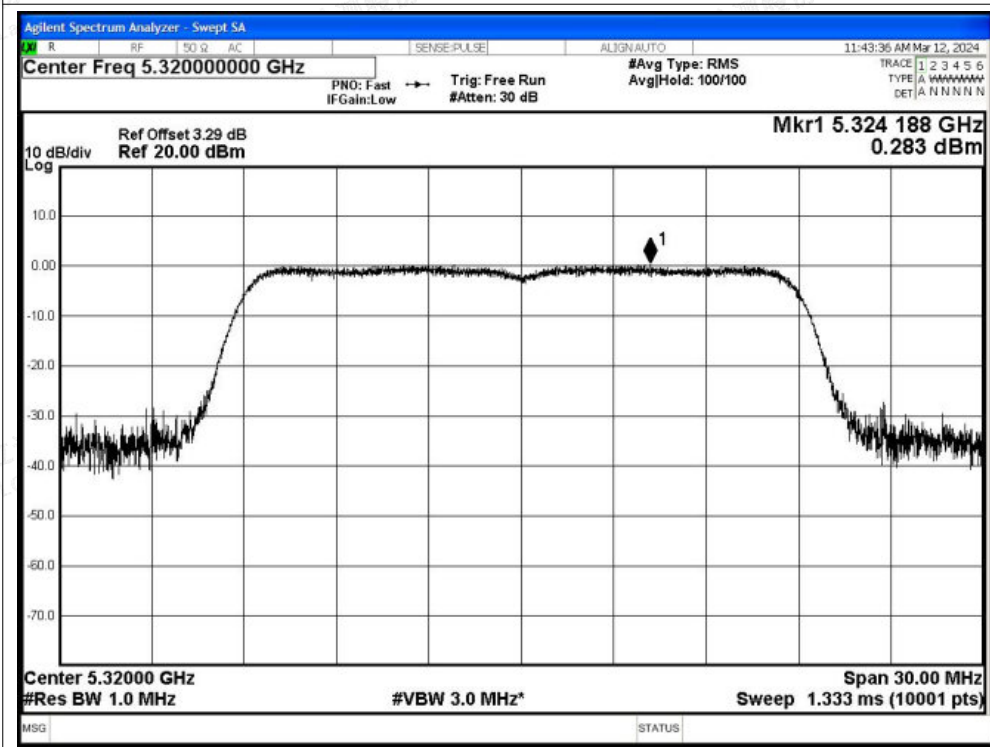




PSD NVNT n20 5300MHz Ant1



PSD NVNT n20 5320MHz Ant1



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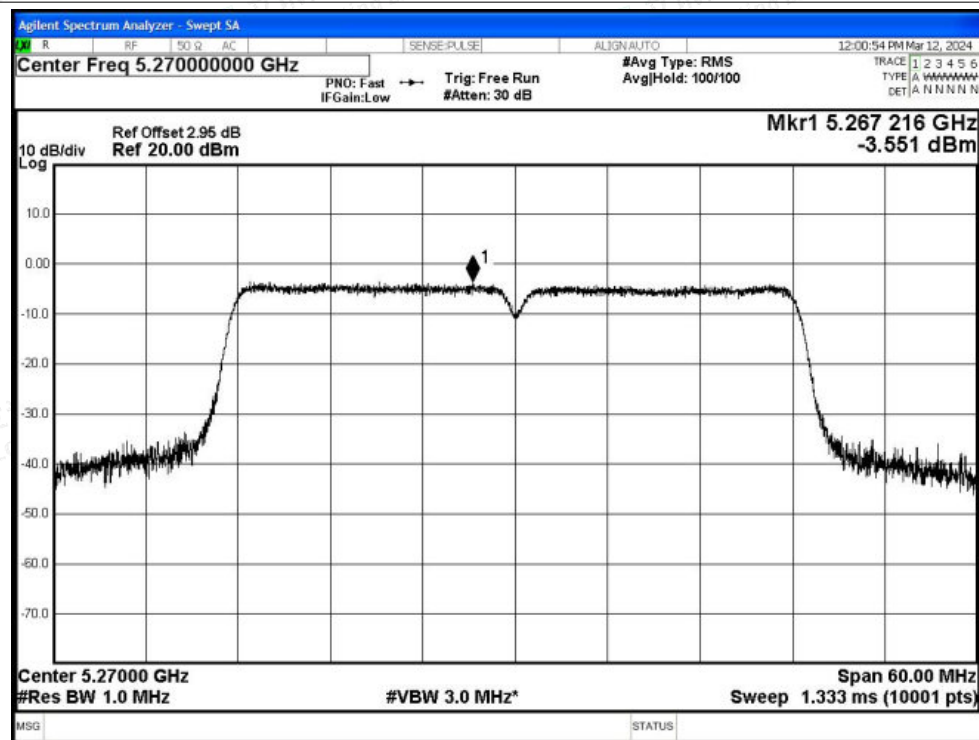
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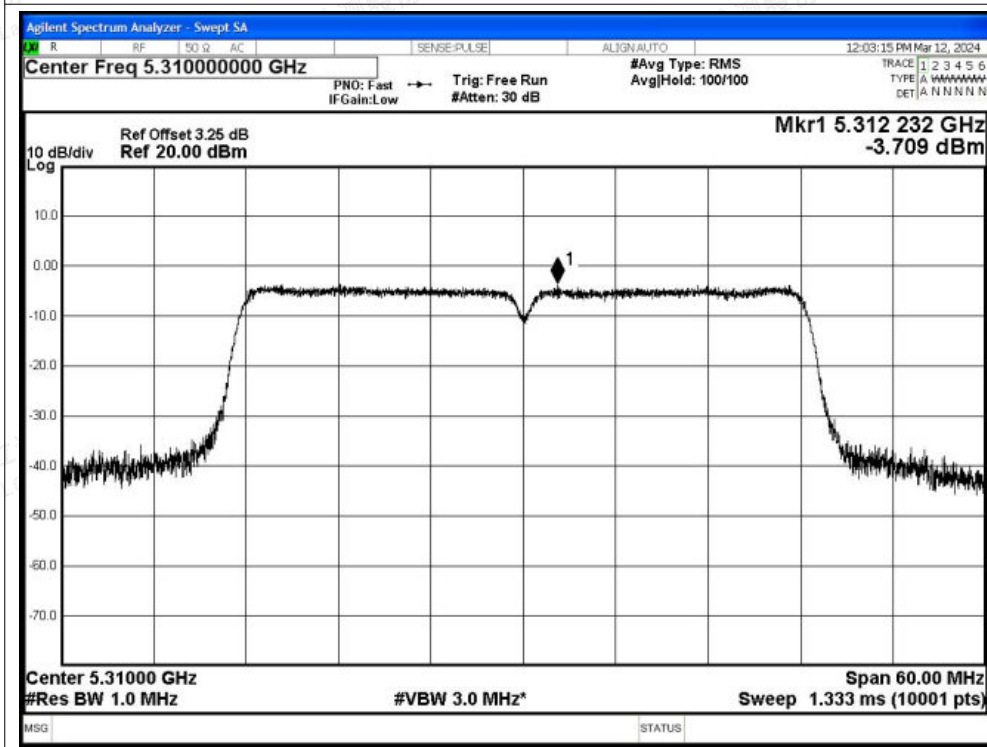
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PSD NVNT n40 5270MHz Ant1

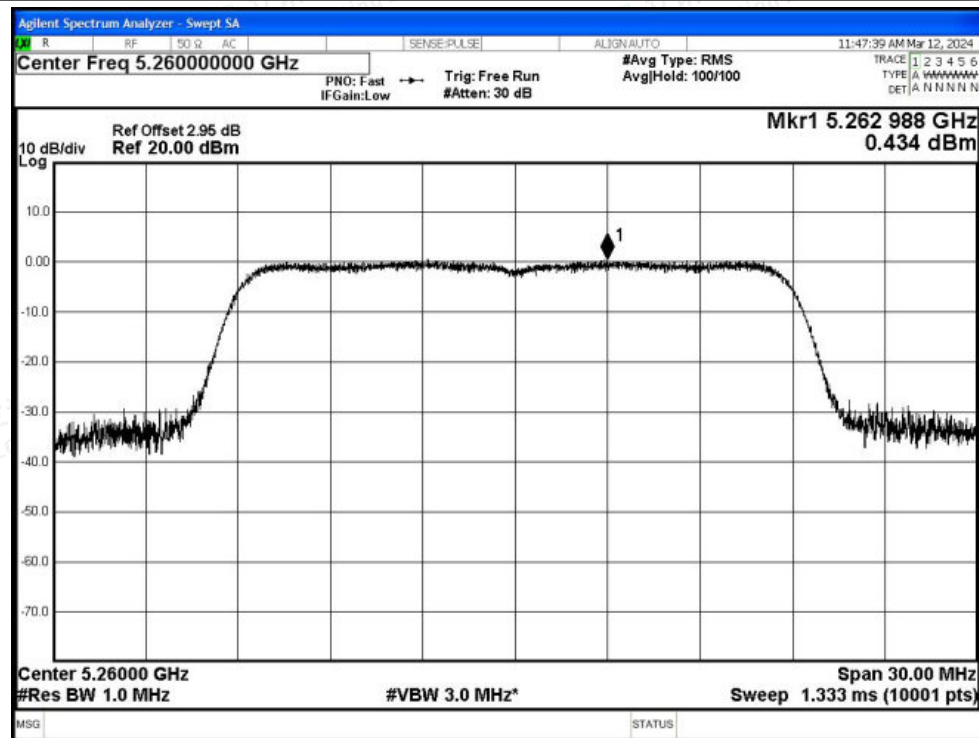


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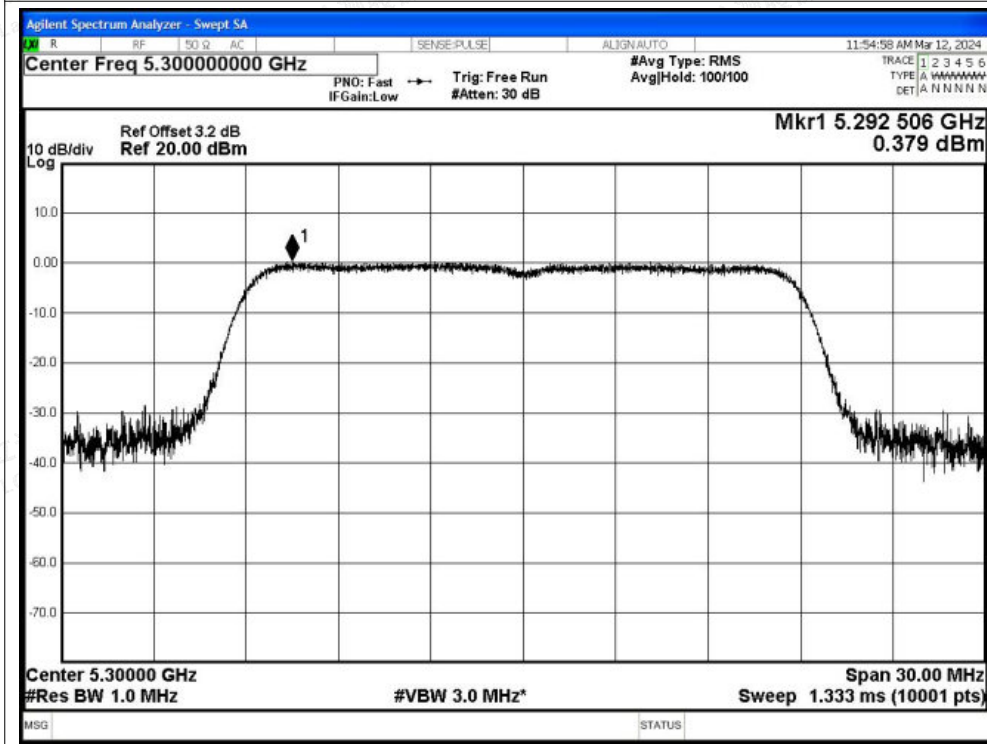




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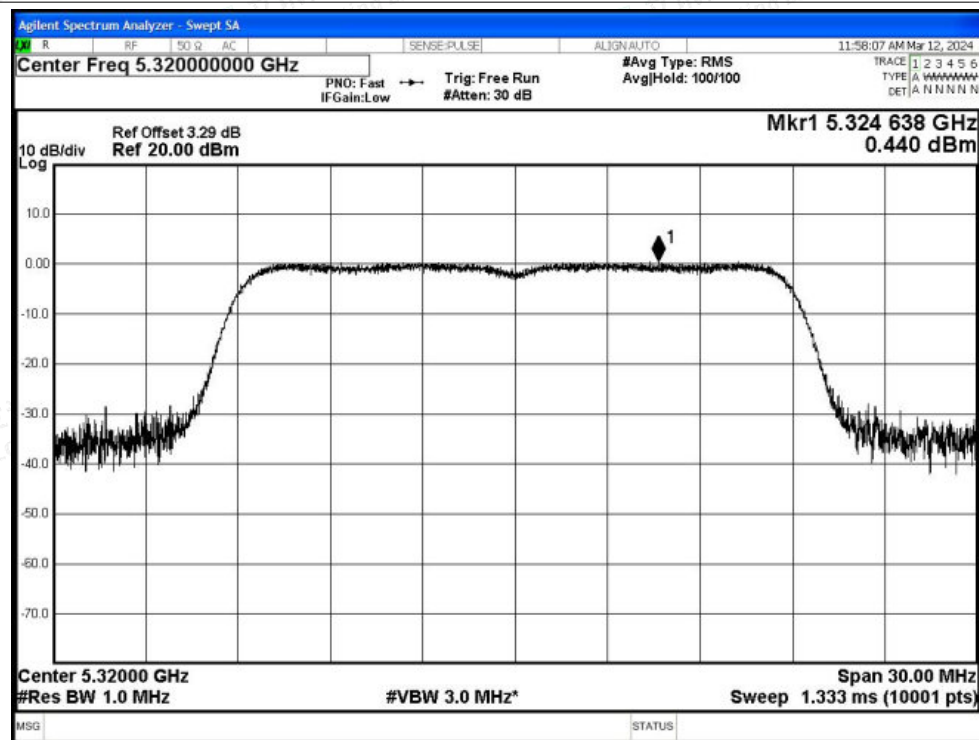


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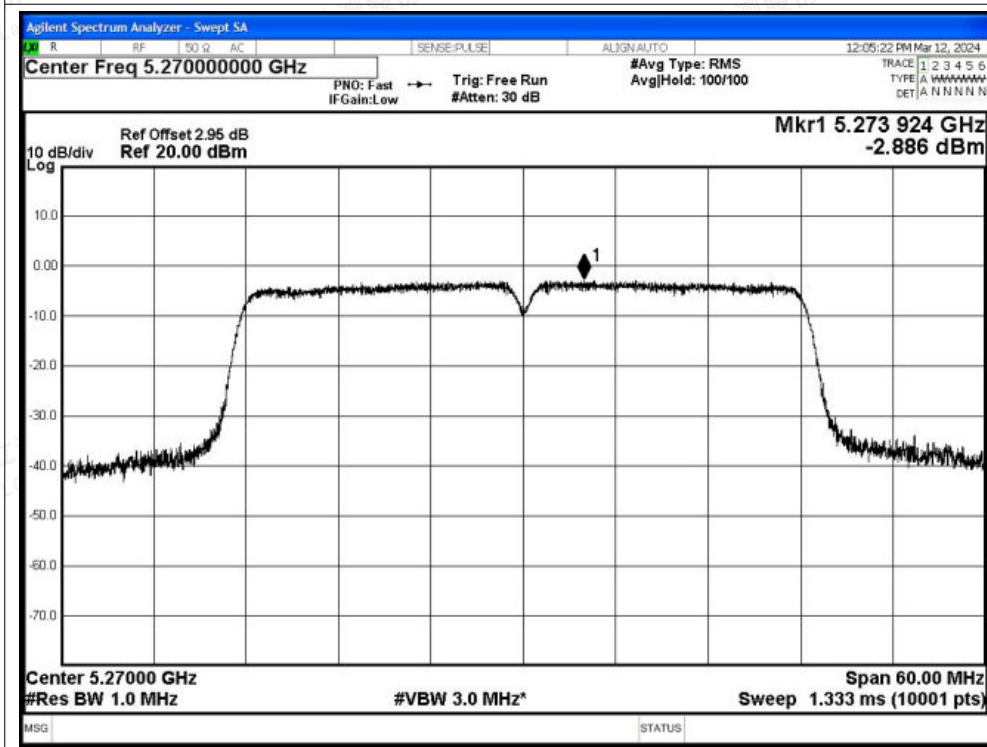




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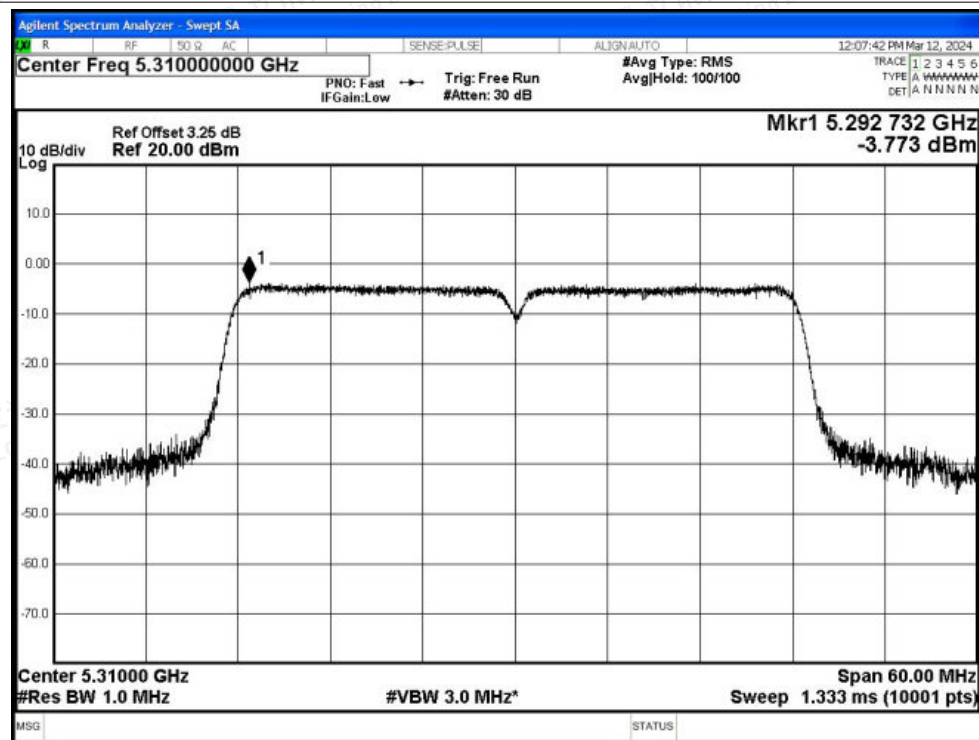


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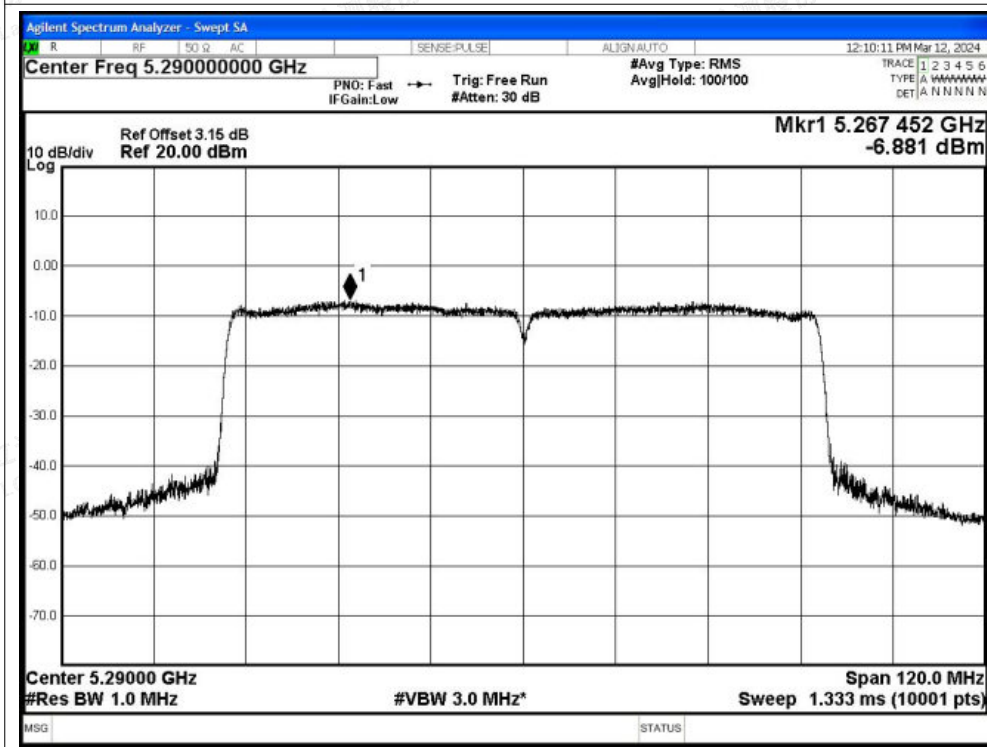




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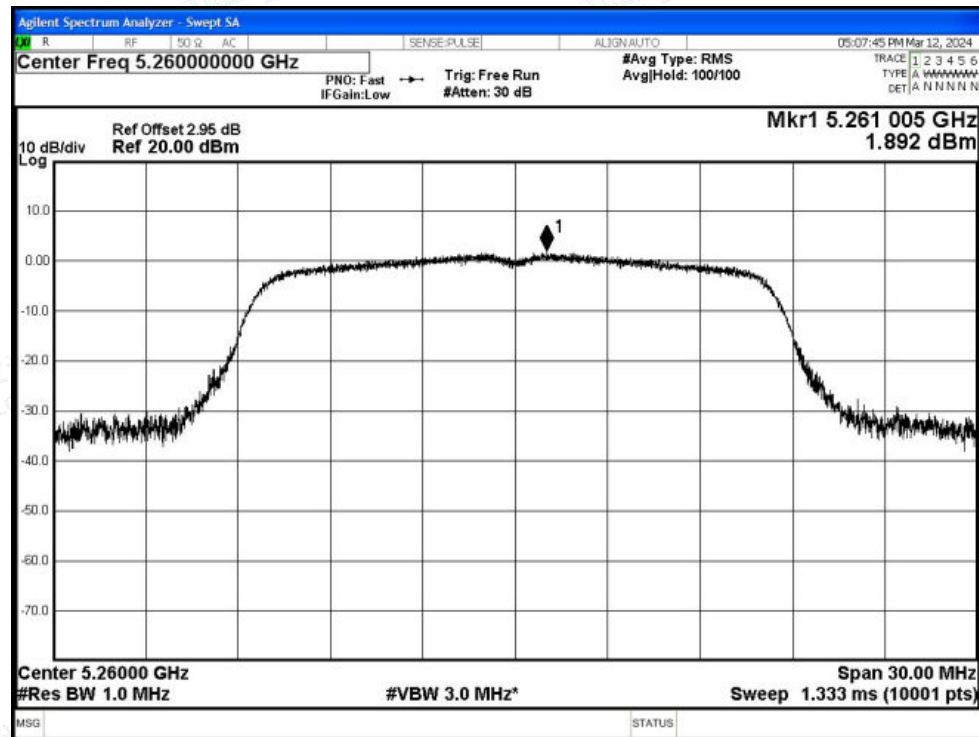
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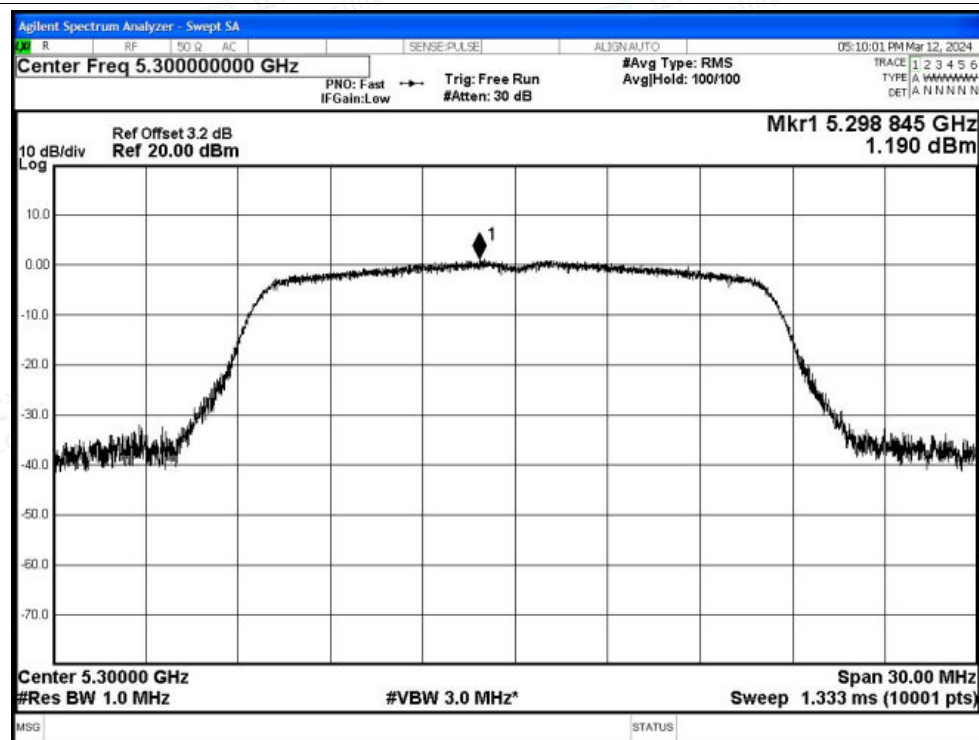


Test Graphs

PSD NVNT a 5260MHz Ant2



PSD NVNT a 5300MHz Ant2



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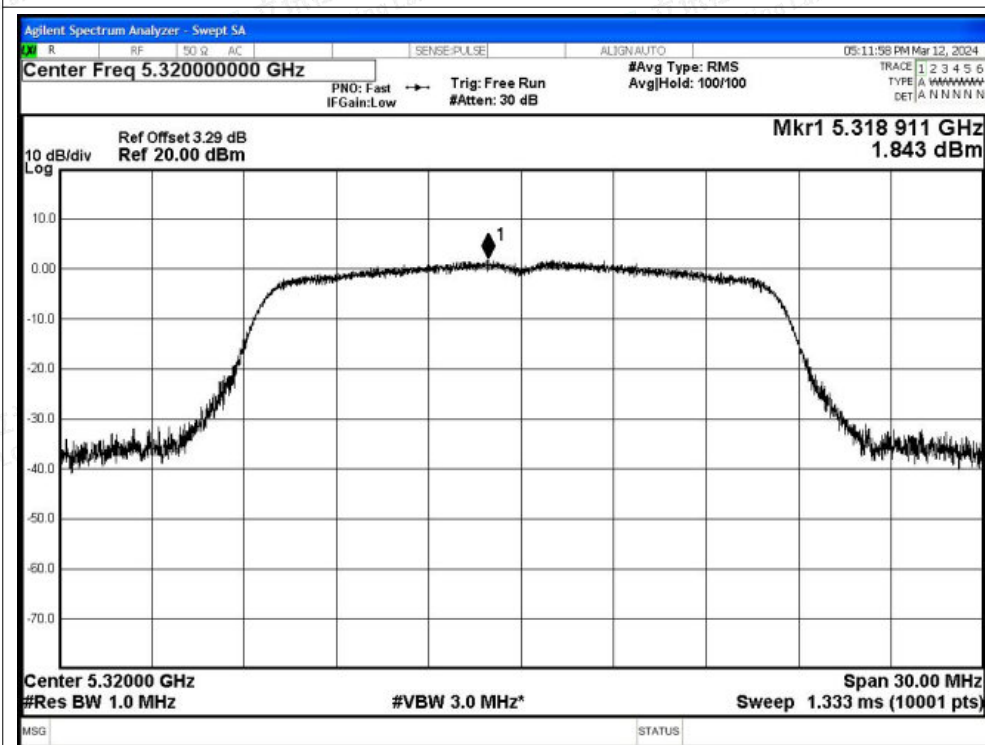
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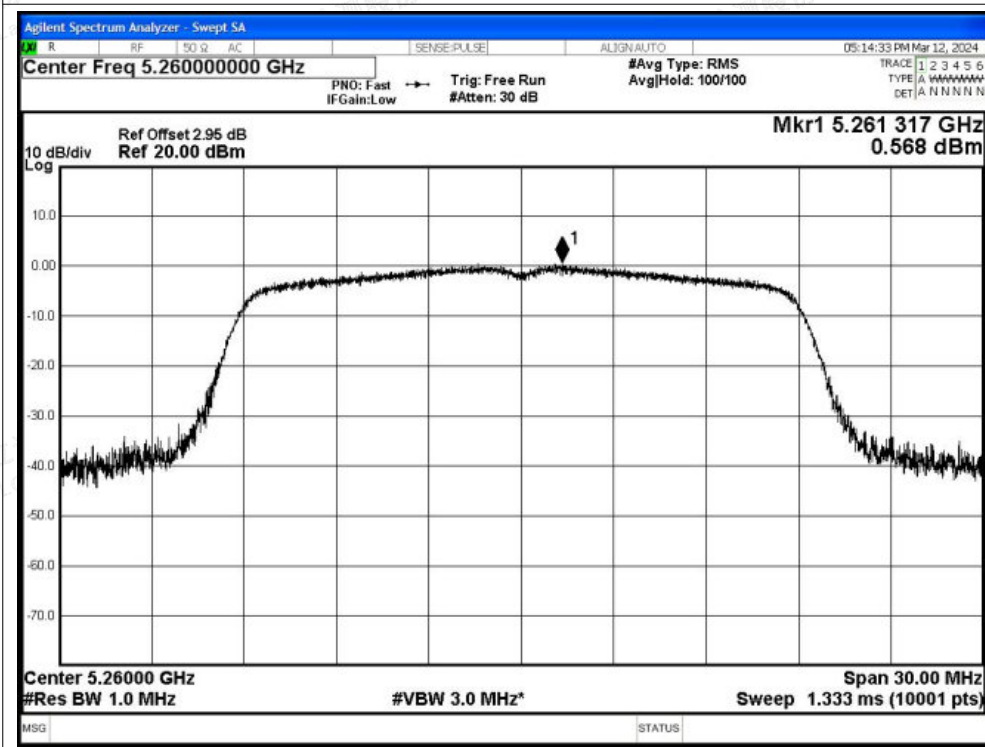
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PSD NVNT a 5320MHz Ant2



PSD NVNT n20 5260MHz Ant2



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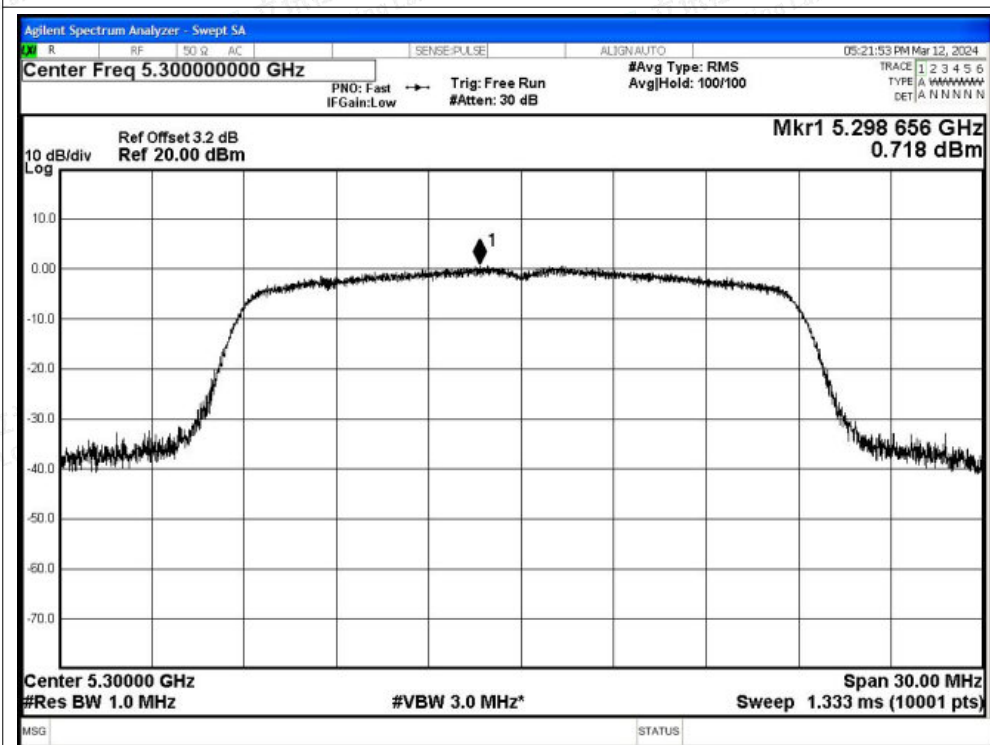
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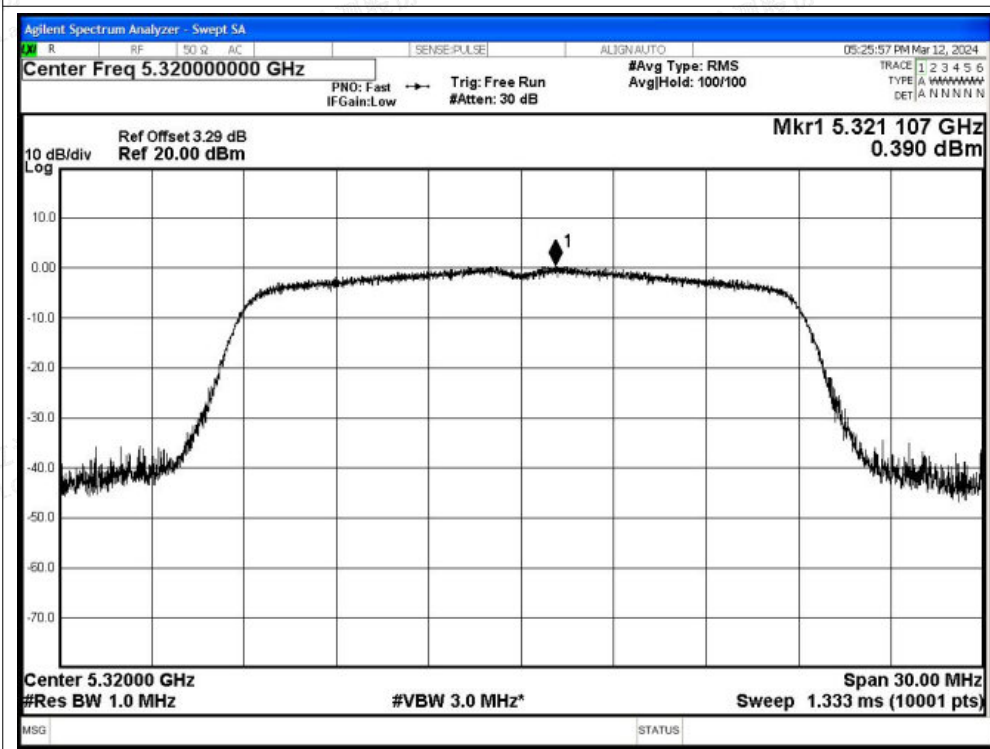
Scan code to check authenticity



PSD NVNT n20 5300MHz Ant2



PSD NVNT n20 5320MHz Ant2



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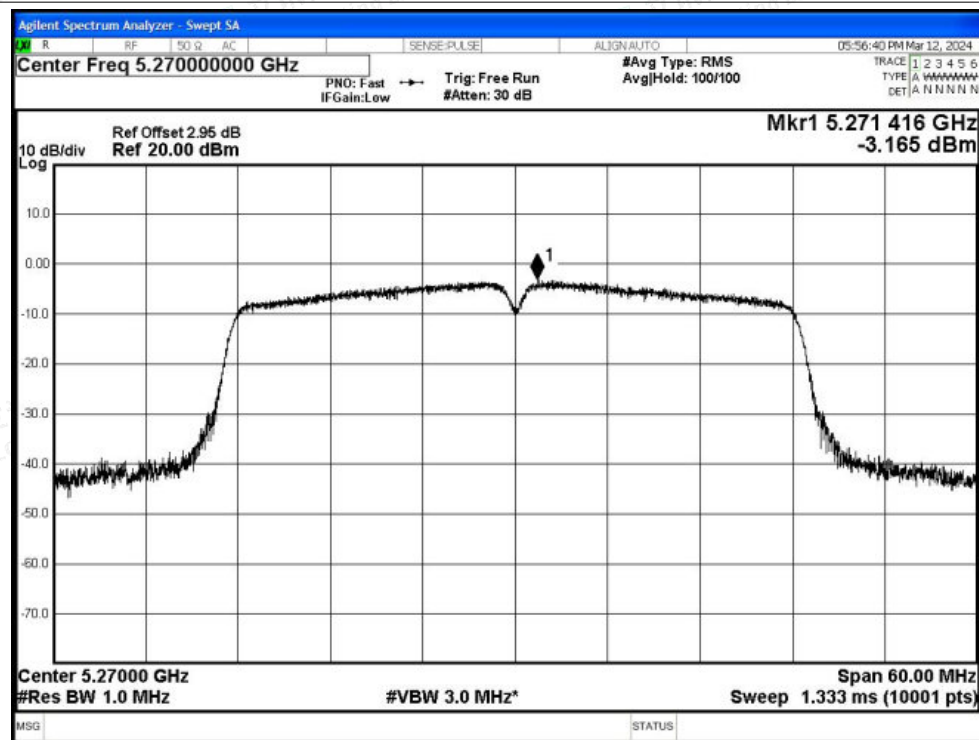
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

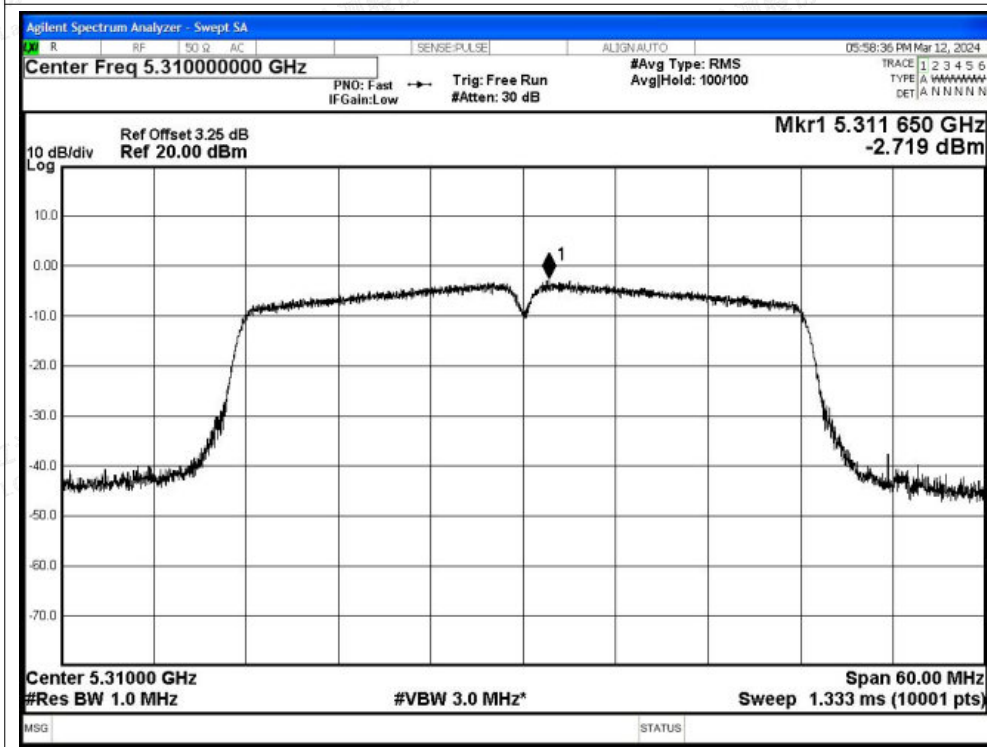
Scan code to check authenticity



PSD NVNT n40 5270MHz Ant2

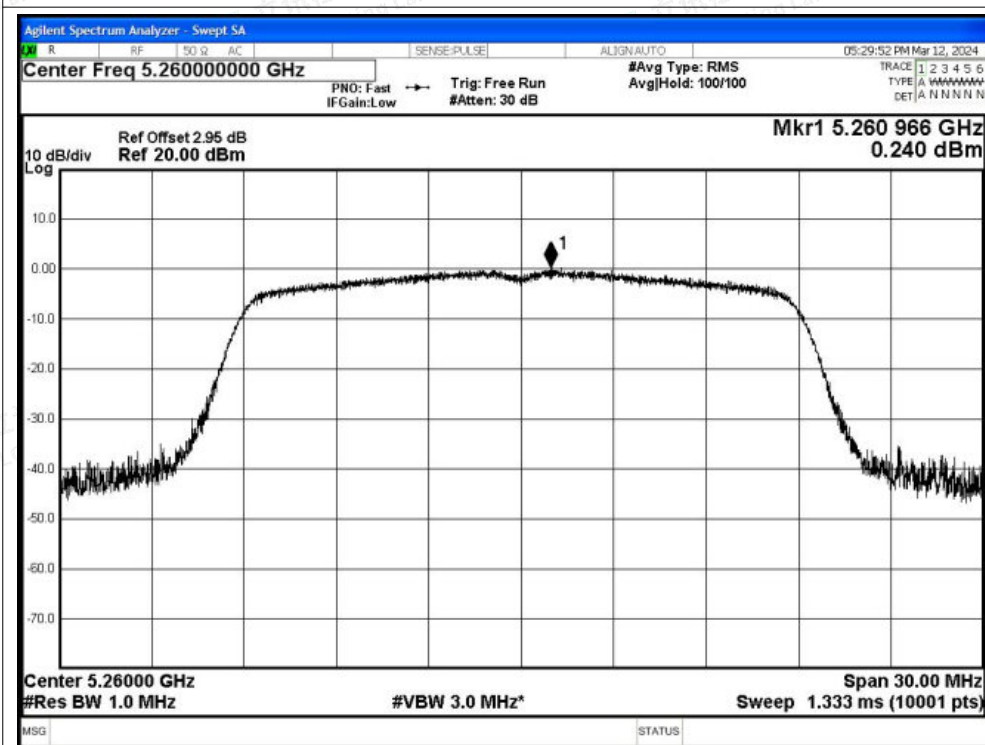


PSD NVNT n40 5310MHz Ant2

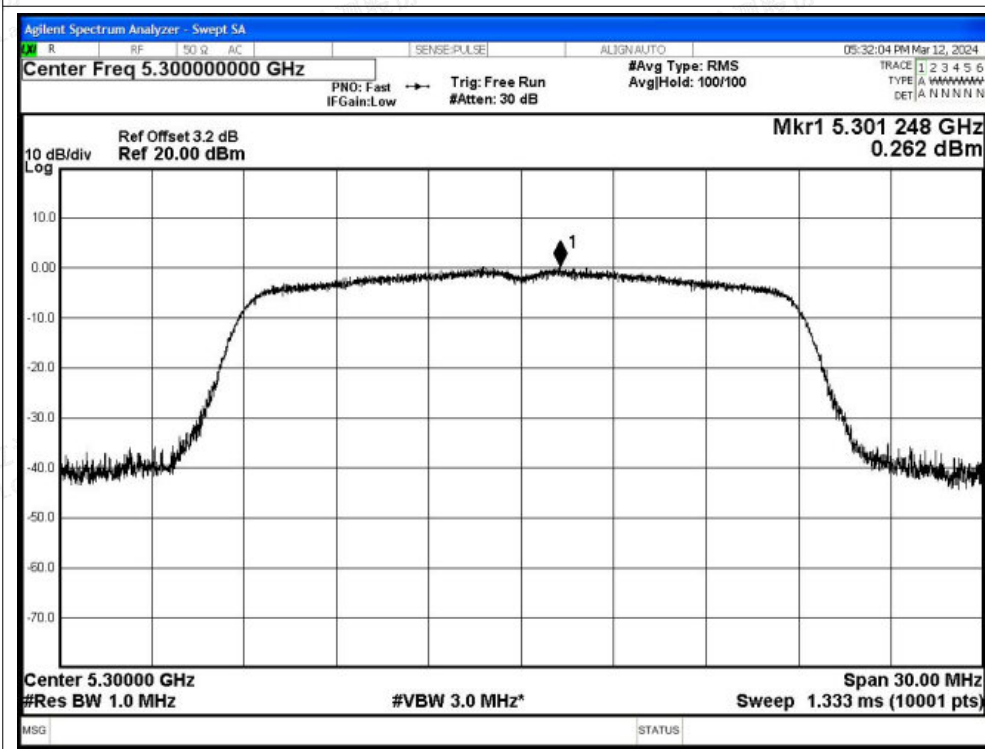




PSD NVNT ac20 5260MHz Ant2



PSD NVNT ac20 5300MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

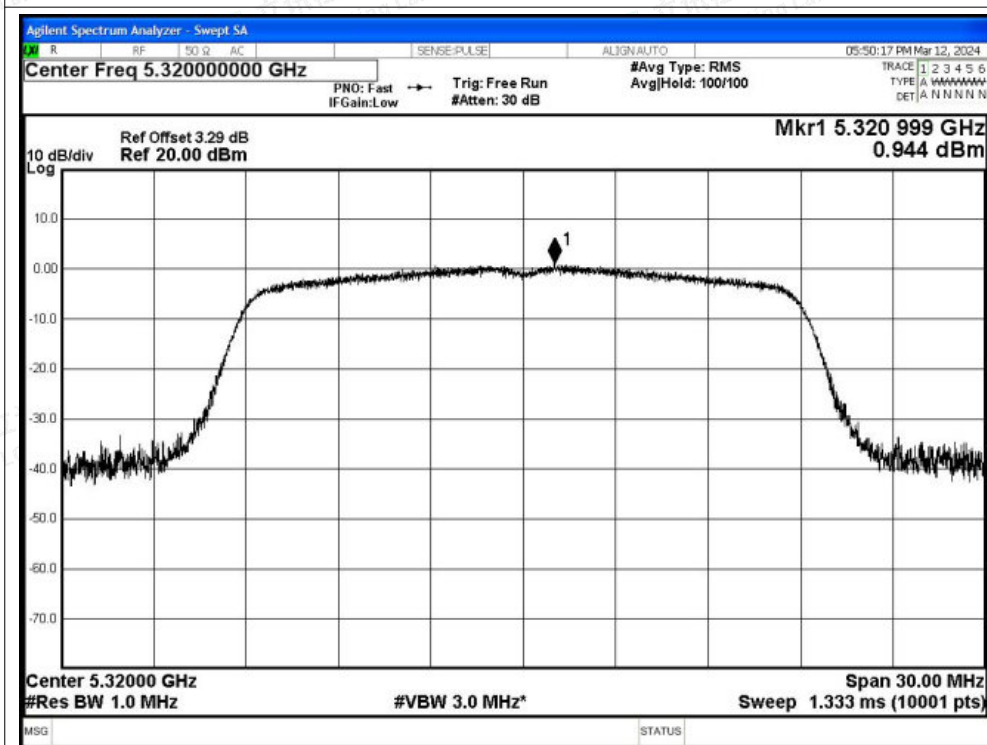
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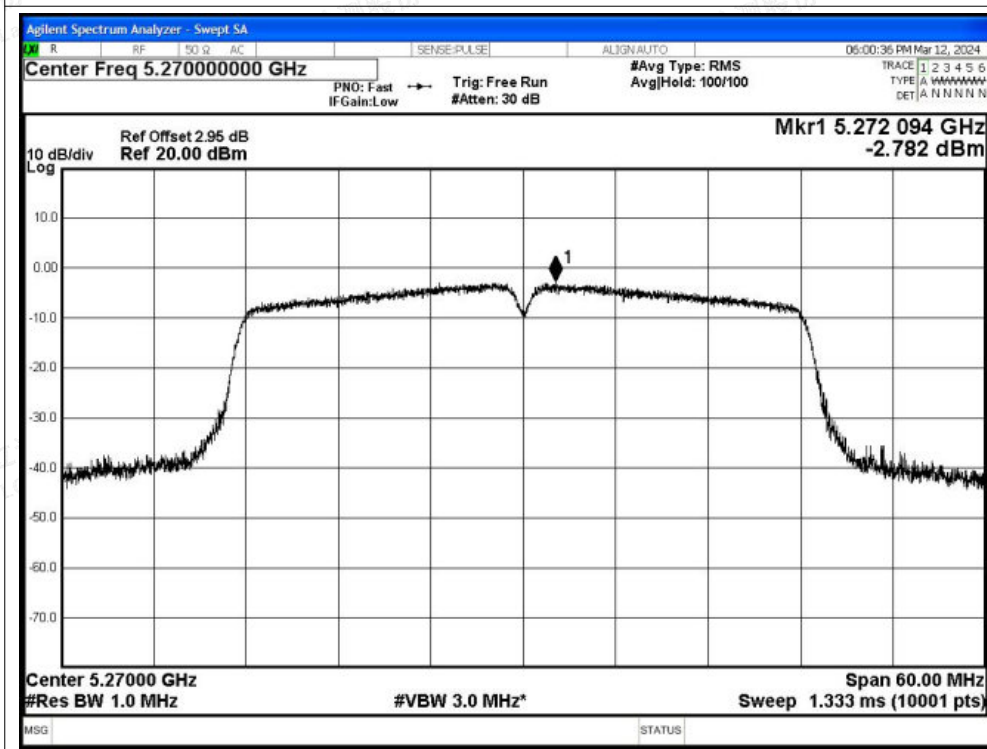
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PSD NVNT ac20 5320MHz Ant2



PSD NVNT ac40 5270MHz Ant2



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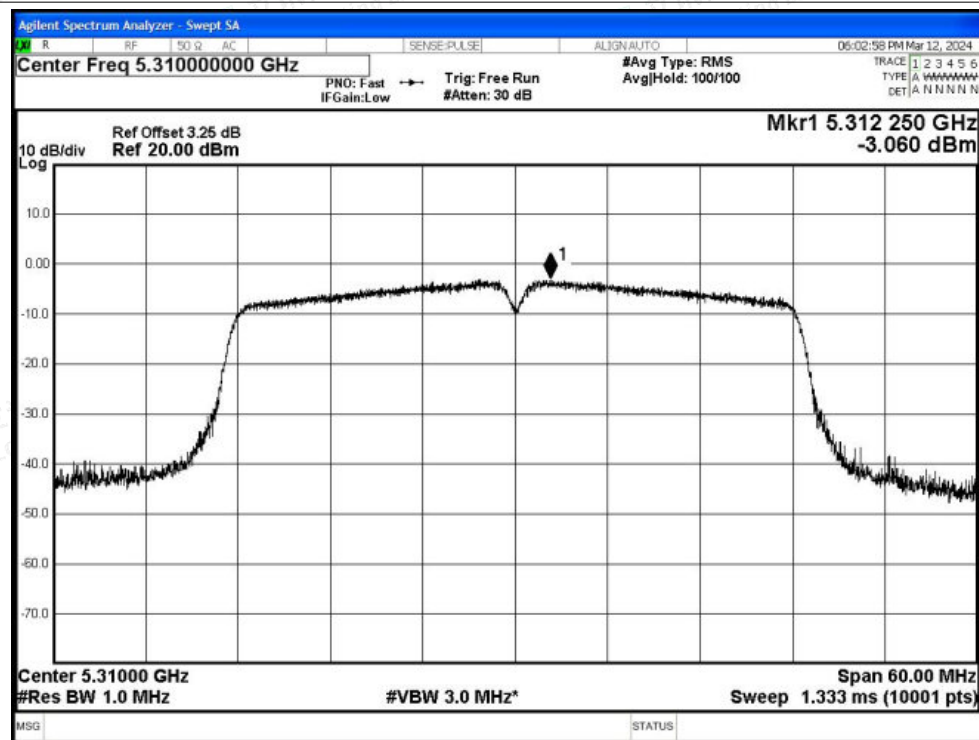
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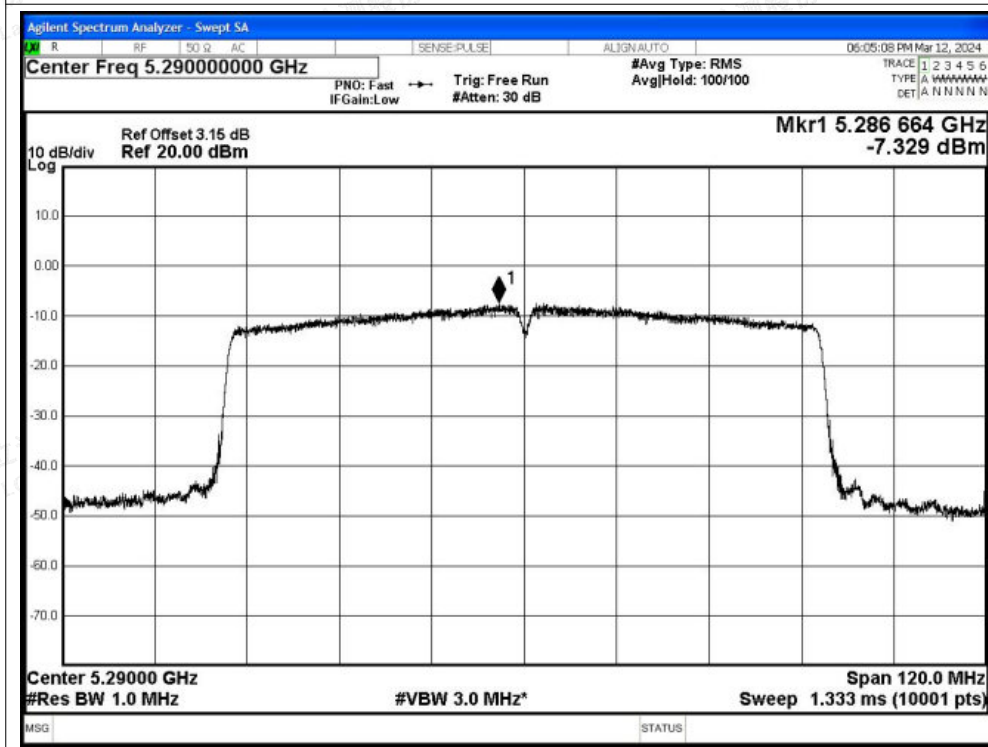
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PSD NVNT ac40 5310MHz Ant2



PSD NVNT ac80 5290MHz Ant2





E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	4500	-52.11	5.81	-	48.96	Peak	68.2	Pass
NVNT	a	5260	4500	-59.28	5.81	0.1	41.89	Average	54	Pass
NVNT	a	5260	4787.82	-46.06	5.81	-	55.01	Peak	68.2	Pass
NVNT	a	5260	4787.82	-54.24	5.81	0.1	46.93	Average	54	Pass
NVNT	a	5260	5150	-48.04	5.81	-	53.03	Peak	68.2	Pass
NVNT	a	5260	5150	-55.75	5.81	0.1	45.42	Average	54	Pass
NVNT	a	5320	5350	-38.45	5.81	-	62.62	Peak	68.2	Pass
NVNT	a	5320	5350	-49.1	5.81	0.1	52.07	Average	54	Pass
NVNT	a	5320	5351.4	-33.73	5.81	-	67.34	Peak	68.2	Pass
NVNT	a	5320	5460	-48.76	5.81	-	52.31	Peak	68.2	Pass
NVNT	a	5320	5460	-57.77	5.81	0.1	43.4	Average	54	Pass
NVNT	n20mimo	5260	4500	-48.72	8.82	-	55.36	Peak	68.2	Pass
NVNT	n20mimo	5260	4500	-59.18	8.82	0.12	45.02	Average	54	Pass
NVNT	n20mimo	5260	4788.6	-46.13	8.82	-	57.95	Peak	68.2	Pass
NVNT	n20mimo	5260	4787.82	-55.07	8.82	0.12	49.13	Average	54	Pass
NVNT	n20mimo	5260	5150	-47.98	8.82	-	56.1	Peak	68.2	Pass
NVNT	n20mimo	5260	5150	-56.13	8.82	0.12	48.07	Average	54	Pass
NVNT	n20mimo	5320	5350	-36.65	8.82	-	67.43	Peak	68.2	Pass
NVNT	n20mimo	5320	5350	-49.39	8.82	0.12	54.81	Average	54	Pass
NVNT	n20mimo	5320	5350.2	-48.39	8.82	0.12	55.81	Average	54	Pass
NVNT	n20mimo	5320	5460	-50.32	8.82	-	53.76	Peak	68.2	Pass
NVNT	n20mimo	5320	5460	-58.23	8.82	0.12	45.97	Average	54	Pass
NVNT	n40mimo	5270	4500	-51.65	8.82	-	52.43	Peak	68.2	Pass
NVNT	n40mimo	5270	4500	-59.28	8.82	0.24	45.04	Average	54	Pass
NVNT	n40mimo	5270	4806.99	-44.37	8.82	-	59.71	Peak	68.2	Pass
NVNT	n40mimo	5270	4806.18	-52.83	8.82	0.24	51.49	Average	54	Pass
NVNT	n40mimo	5270	5150	-49.59	8.82	-	54.49	Peak	68.2	Pass
NVNT	n40mimo	5270	5150	-57.13	8.82	0.24	47.19	Average	54	Pass
NVNT	n40mimo	5310	5350	-42.2	8.82	-	61.85	Peak	68.2	Pass
NVNT	n40mimo	5310	5350	-54.88	8.82	0.24	49.41	Average	54	Pass
NVNT	n40mimo	5310	5354.6	-41.02	8.82	-	63.03	Peak	68.2	Pass
NVNT	n40mimo	5310	5350.2	-54.79	8.82	0.24	49.5	Average	54	Pass
NVNT	n40mimo	5310	5460	-49.92	8.82	-	54.13	Peak	68.2	Pass
NVNT	n40mimo	5310	5460	-58.21	8.82	0.24	46.08	Average	54	Pass
NVNT	ac20mimo	5260	4500	-50.15	8.82	-	53.93	Peak	68.2	Pass
NVNT	ac20mimo	5260	4500	-59.1	8.82	0.12	45.1	Average	54	Pass



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NVNT	ac20mimo	5260	4788.6	-46.48	8.82	-	57.6	Peak	68.2	Pass
NVNT	ac20mimo	5260	4787.82	-55.39	8.82	0.12	48.81	Average	54	Pass
NVNT	ac20mimo	5260	5150	-48.31	8.82	-	55.77	Peak	68.2	Pass
NVNT	ac20mimo	5260	5150	-56.62	8.82	0.12	47.58	Average	54	Pass
NVNT	ac20mimo	5320	5350	-45.11	8.82	-	58.94	Peak	68.2	Pass
NVNT	ac20mimo	5320	5350	-56.27	8.82	0.12	47.9	Average	54	Pass
NVNT	ac20mimo	5320	5350.2	-43.61	8.82	-	60.44	Peak	54	Pass
NVNT	ac20mimo	5320	5460	-48.98	8.82	-	55.07	Peak	68.2	Pass
NVNT	ac20mimo	5320	5460	-58.29	8.82	0.12	45.88	Average	54	Pass
NVNT	ac40mimo	5270	4500	-50.71	8.82	-	53.37	Peak	68.2	Pass
NVNT	ac40mimo	5270	4500	-59.15	8.82	0.23	45.16	Average	54	Pass
NVNT	ac40mimo	5270	4774.59	-43.4	8.82	-	60.68	Peak	68.2	Pass
NVNT	ac40mimo	5270	4806.99	-52.22	8.82	0.23	52.09	Average	54	Pass
NVNT	ac40mimo	5270	5150	-49.91	8.82	-	54.17	Peak	68.2	Pass
NVNT	ac40mimo	5270	5150	-57.4	8.82	0.23	46.91	Average	54	Pass
NVNT	ac40mimo	5310	5350	-45.61	8.82	-	58.44	Peak	68.2	Pass
NVNT	ac40mimo	5310	5350	-53.97	8.82	0.24	50.32	Average	54	Pass
NVNT	ac40mimo	5310	5351	-40.81	8.82	-	63.24	Peak	68.2	Pass
NVNT	ac40mimo	5310	5350	-53.97	8.82	0.24	50.32	Average	54	Pass
NVNT	ac40mimo	5310	5460	-49.57	8.82	-	54.48	Peak	68.2	Pass
NVNT	ac40mimo	5310	5460	-58.39	8.82	0.24	45.9	Average	54	Pass
NVNT	ac80mimo	5290	4500	-49.86	8.82	-	54.22	Peak	68.2	Pass
NVNT	ac80mimo	5290	4500	-58.83	8.82	0.47	45.72	Average	54	Pass
NVNT	ac80mimo	5290	5030.7	-46.09	8.82	-	57.99	Peak	68.2	Pass
NVNT	ac80mimo	5290	5149.89	-55.48	8.82	0.47	49.07	Average	54	Pass
NVNT	ac80mimo	5290	5150	-47.9	8.82	-	56.18	Peak	68.2	Pass
NVNT	ac80mimo	5290	5150	-55.48	8.82	0.47	49.07	Average	54	Pass
NVNT	ac80mimo	5290	5350	-41.15	8.82	-	62.93	Peak	68.2	Pass
NVNT	ac80mimo	5290	5350	-50.75	8.82	0.47	53.8	Average	54	Pass
NVNT	ac80mimo	5290	5354.75	-37.08	8.82	-	67	Peak	68.2	Pass
NVNT	ac80mimo	5290	5352.25	-49.71	8.82	0.47	54.84	Average	54	Pass
NVNT	ac80mimo	5290	5460	-50.41	8.82	-	53.67	Peak	68.2	Pass
NVNT	ac80mimo	5290	5460	-57.84	8.82	0.47	46.71	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.



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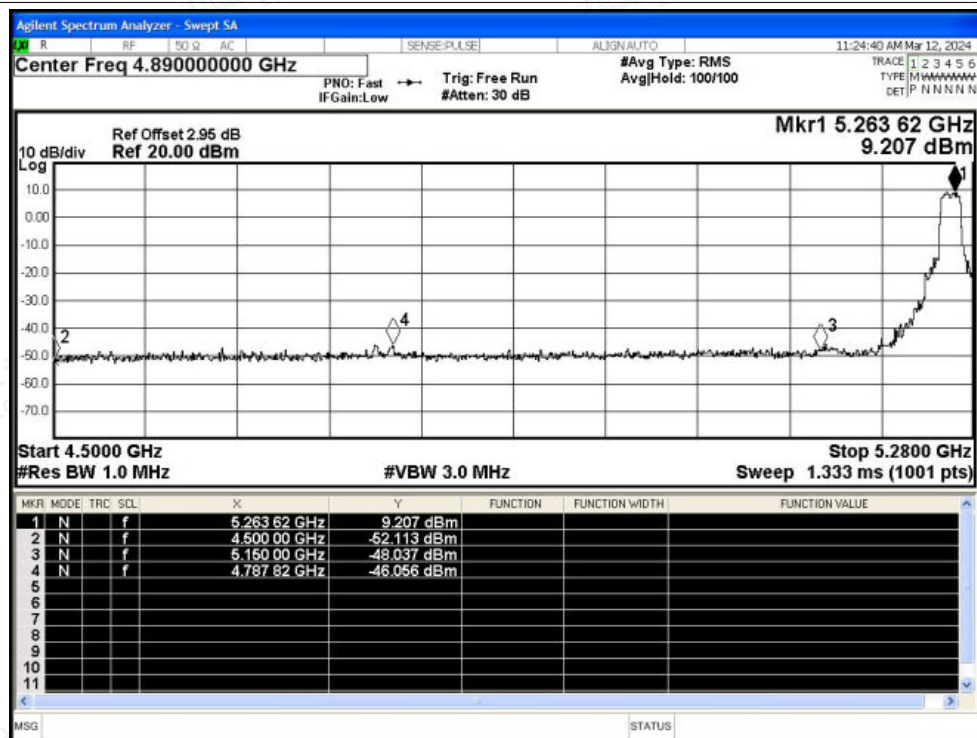
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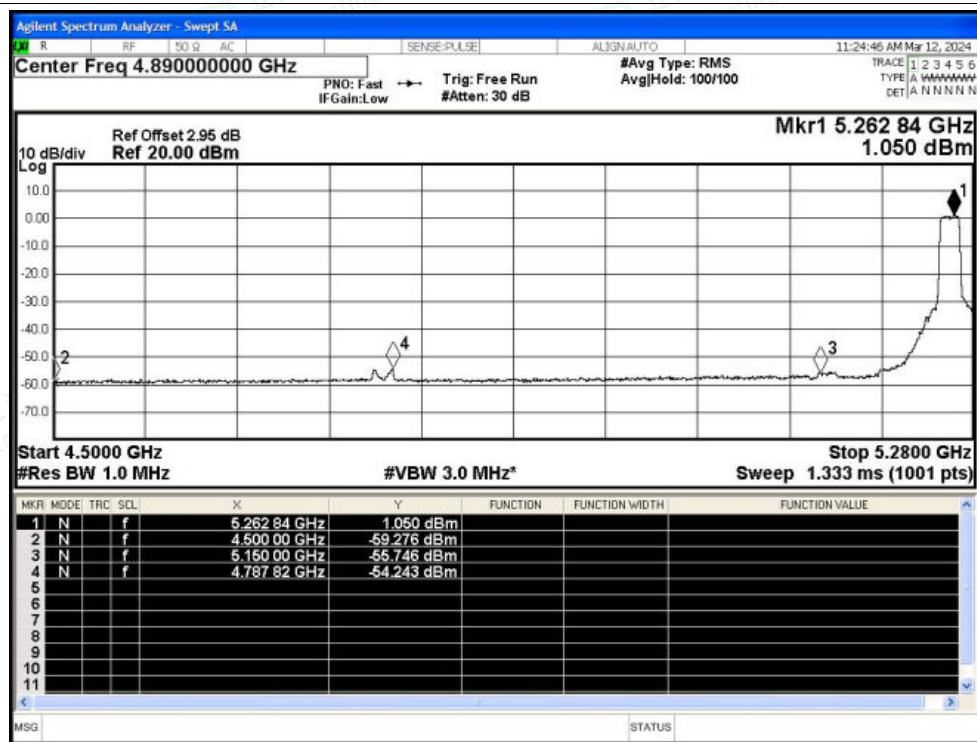


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



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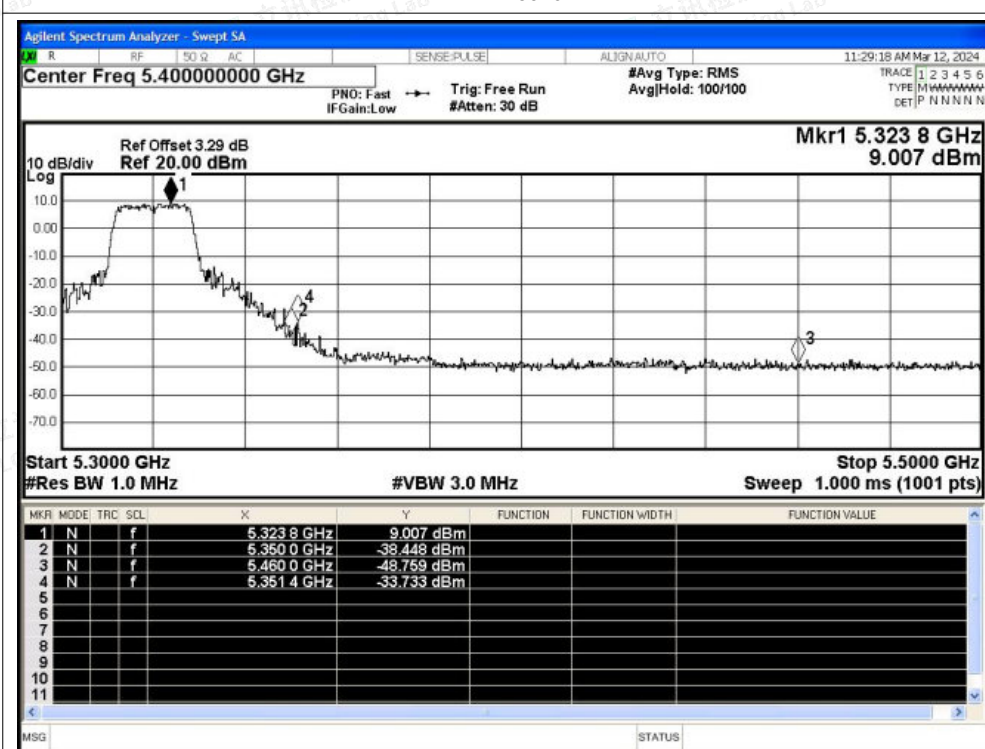
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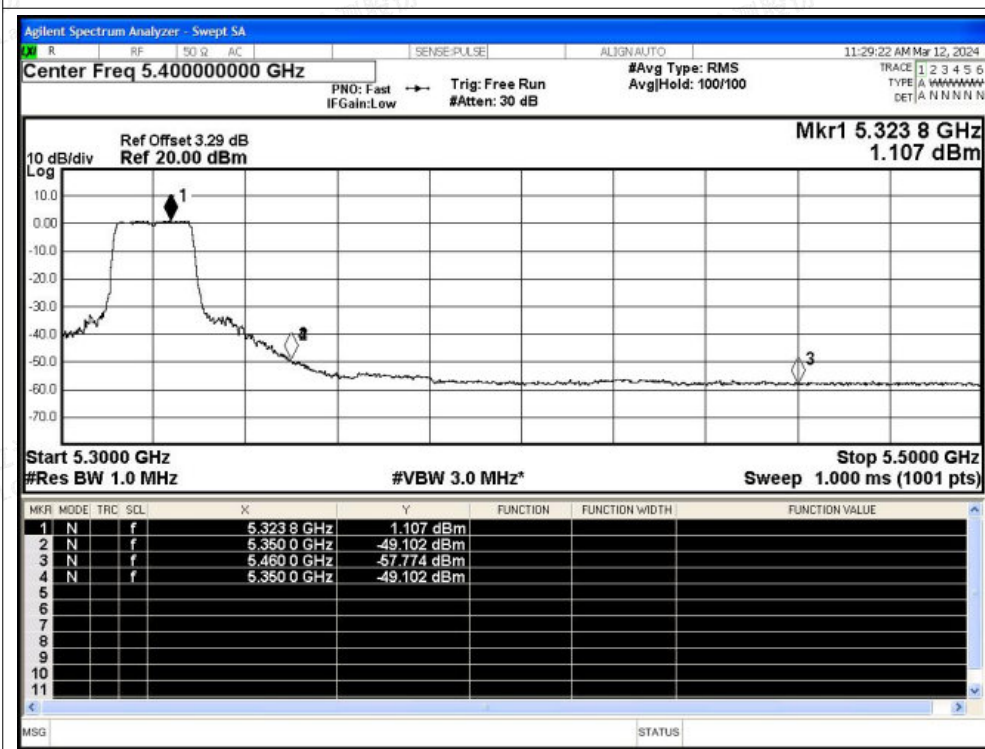
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Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



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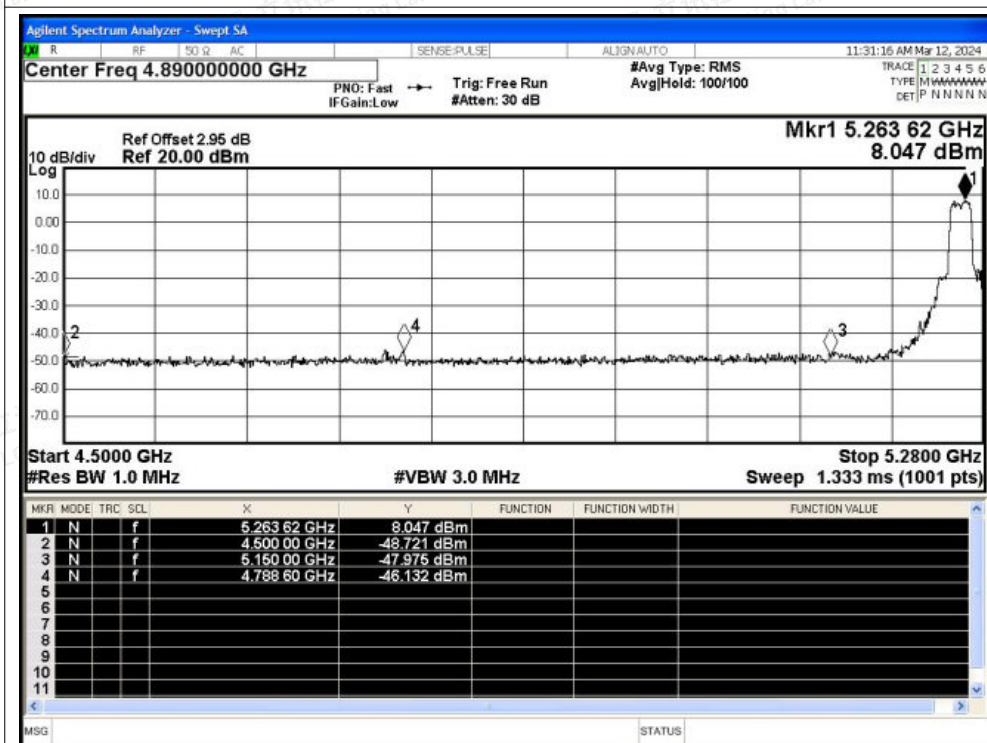
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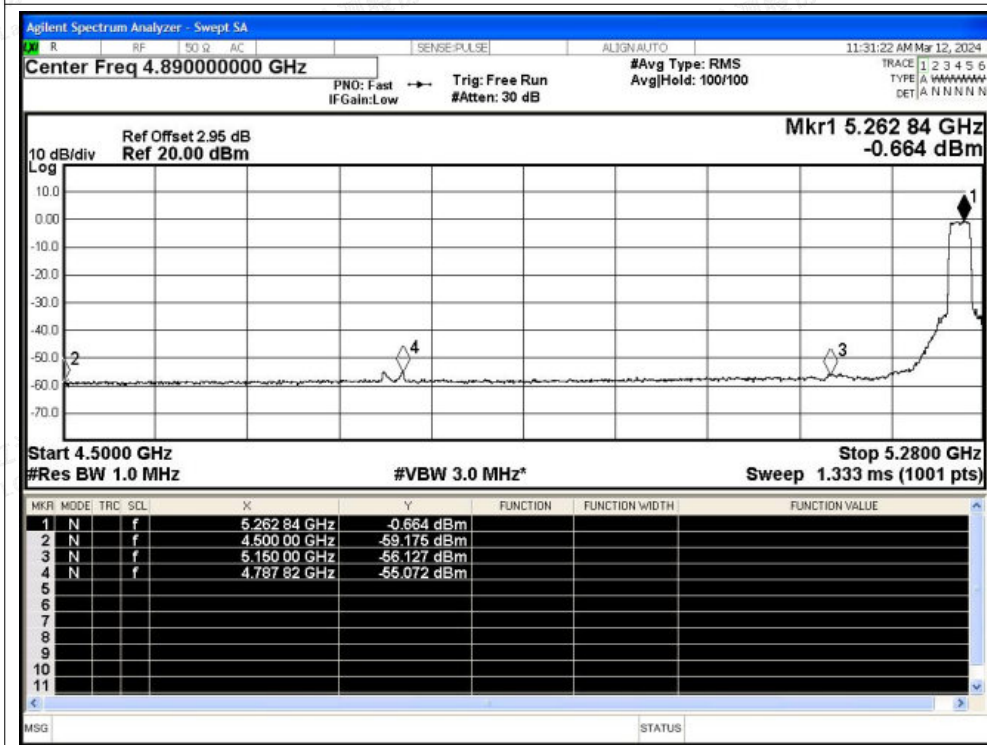
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Restrict Band NVNT n20mimo 5260MHz Peak



Restrict Band NVNT n20mimo 5260MHz Average



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