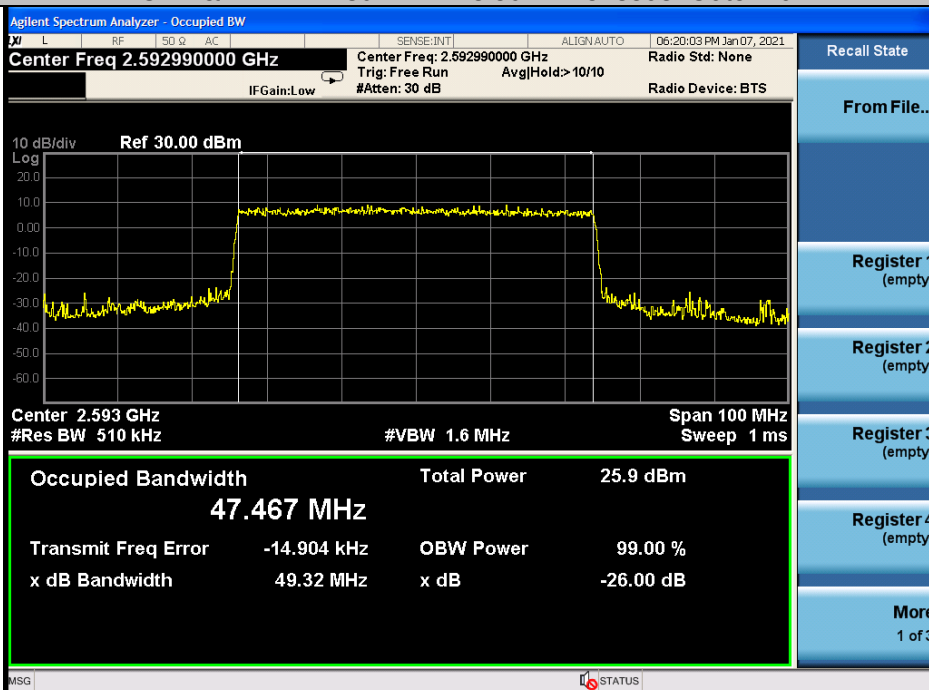
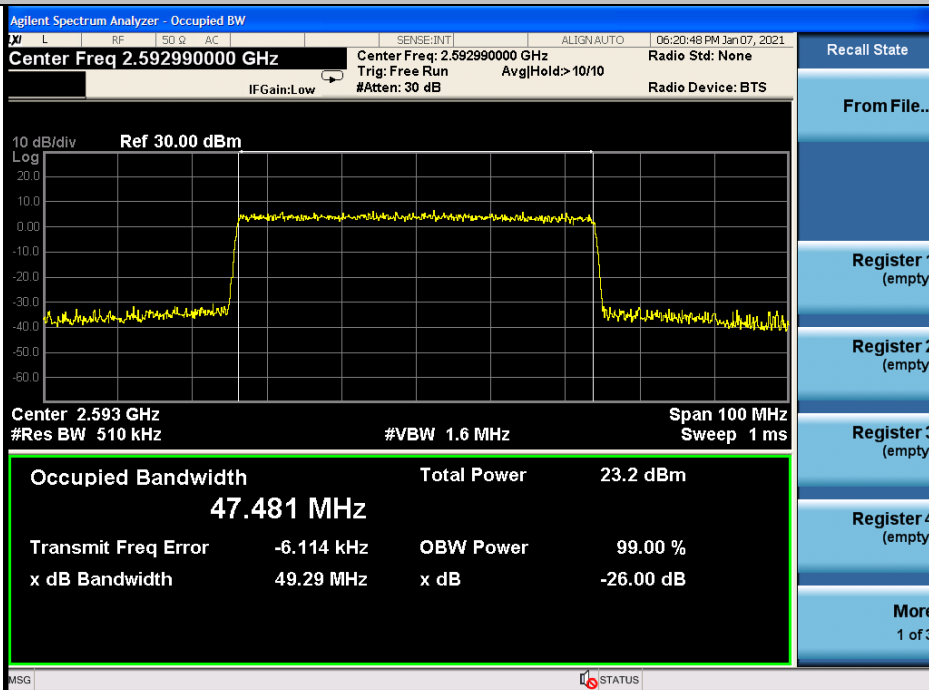


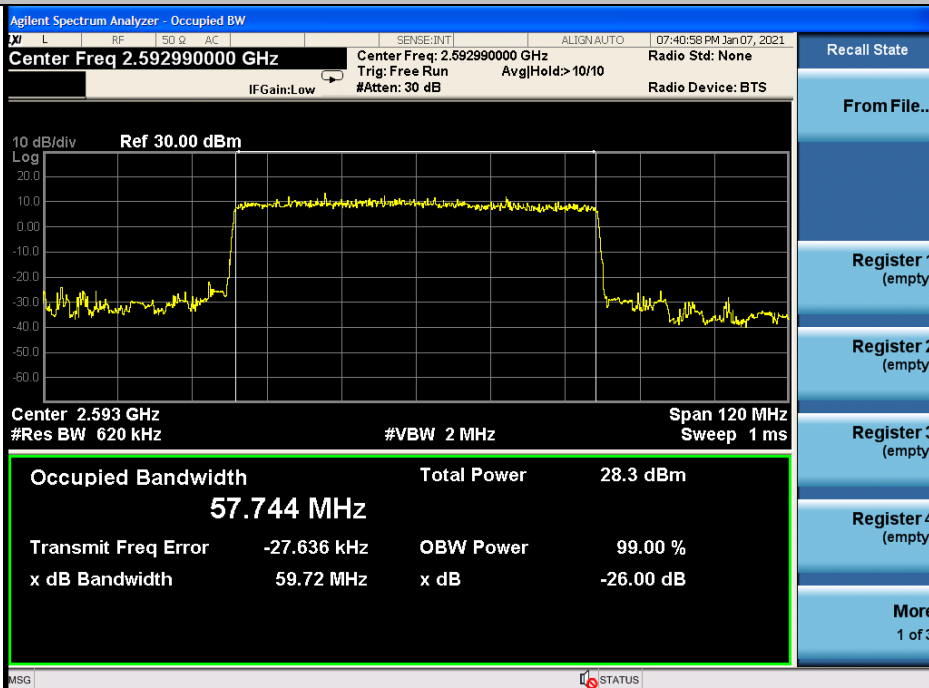
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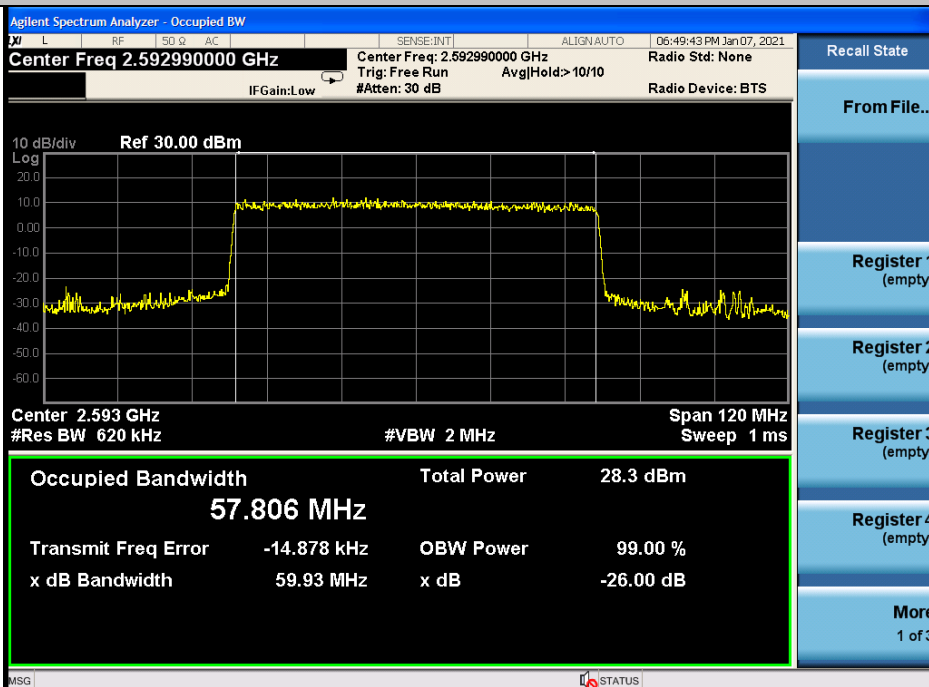
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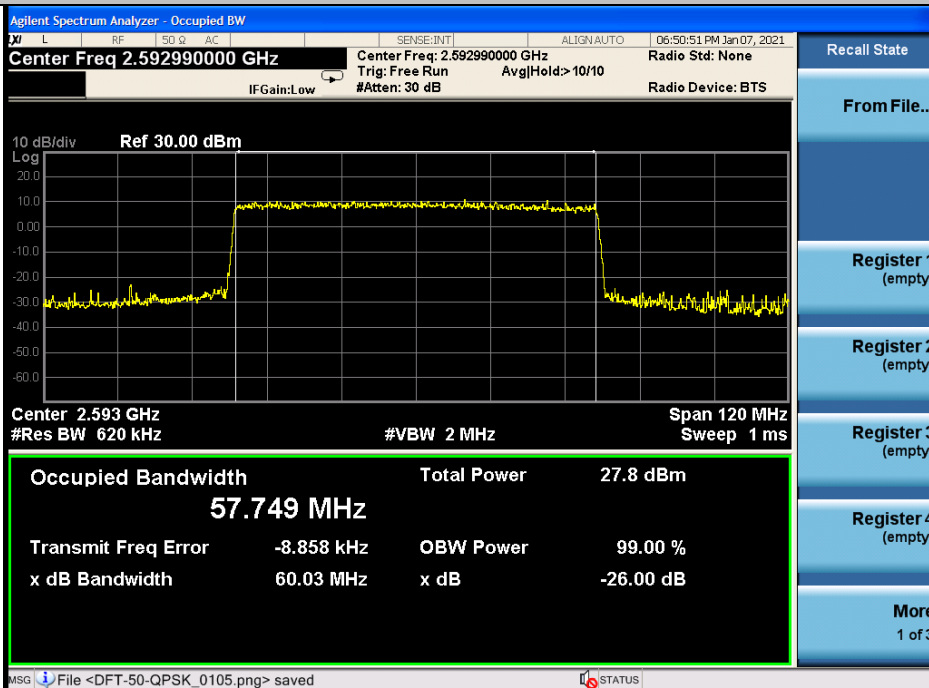
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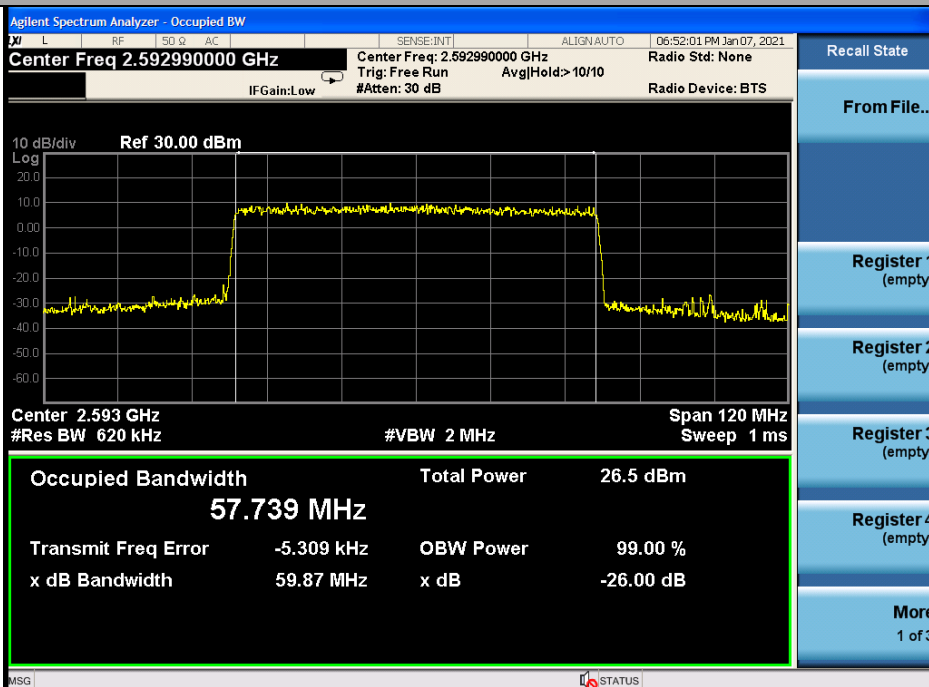
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OBW&EBW N41 30KHz TM3 60MHz 518598 Outer Full



OBW&EBW N41 30KHz TM4 60MHz 518598 Outer Full



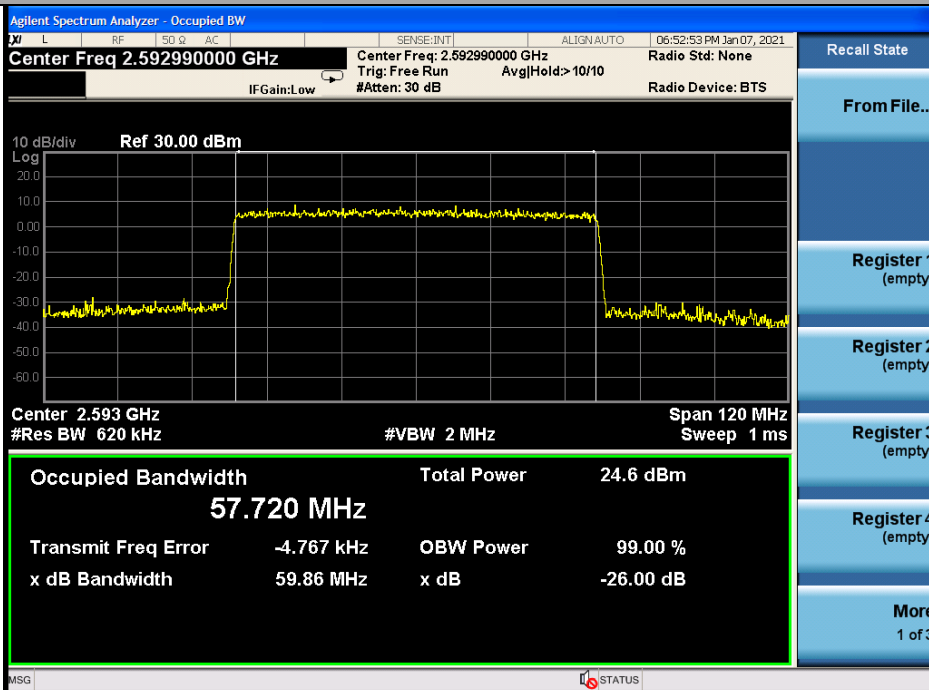
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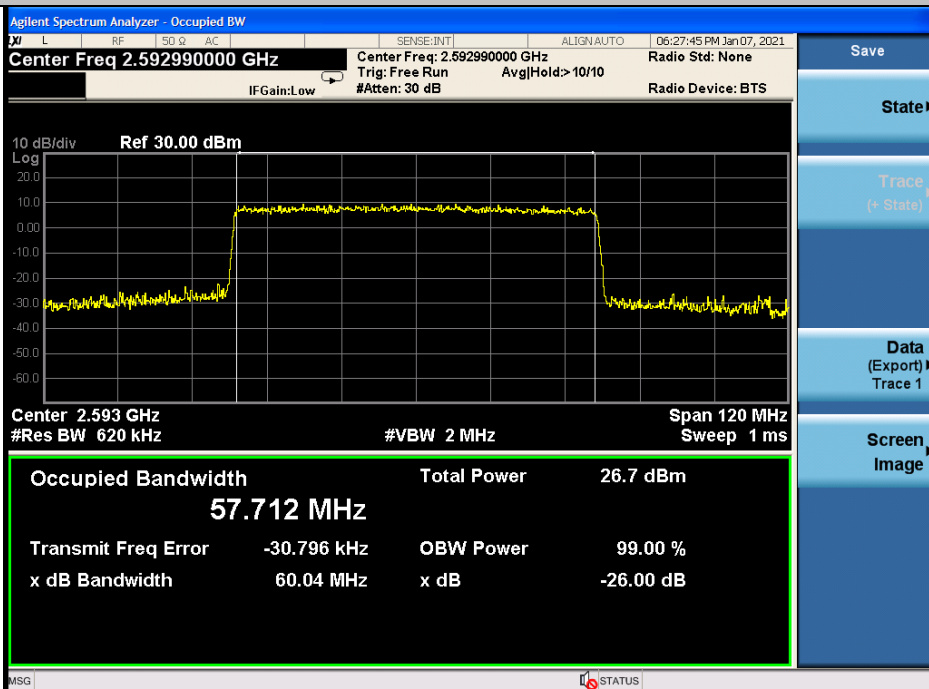
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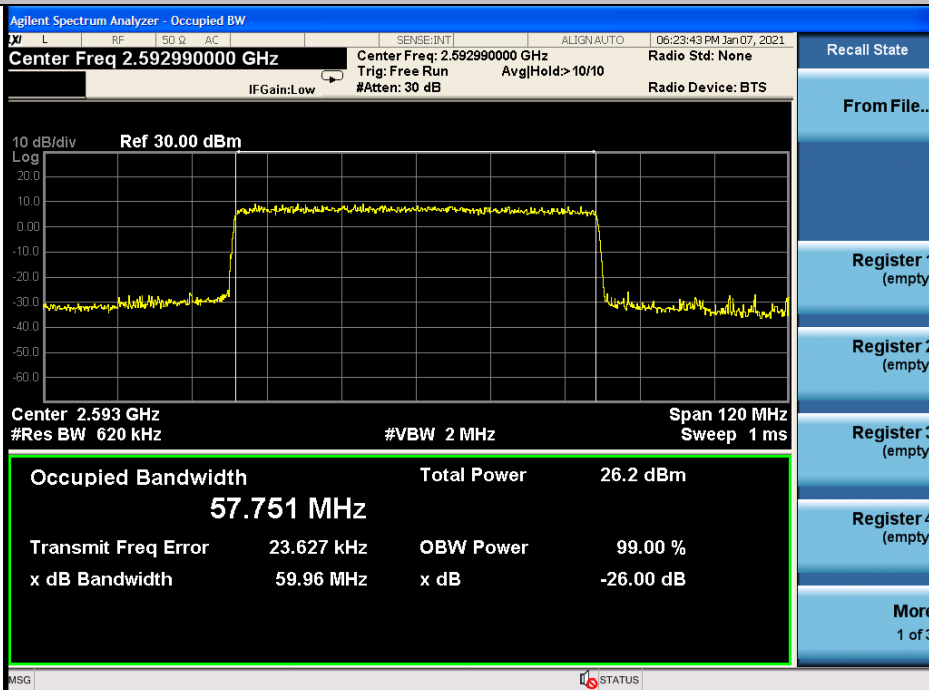
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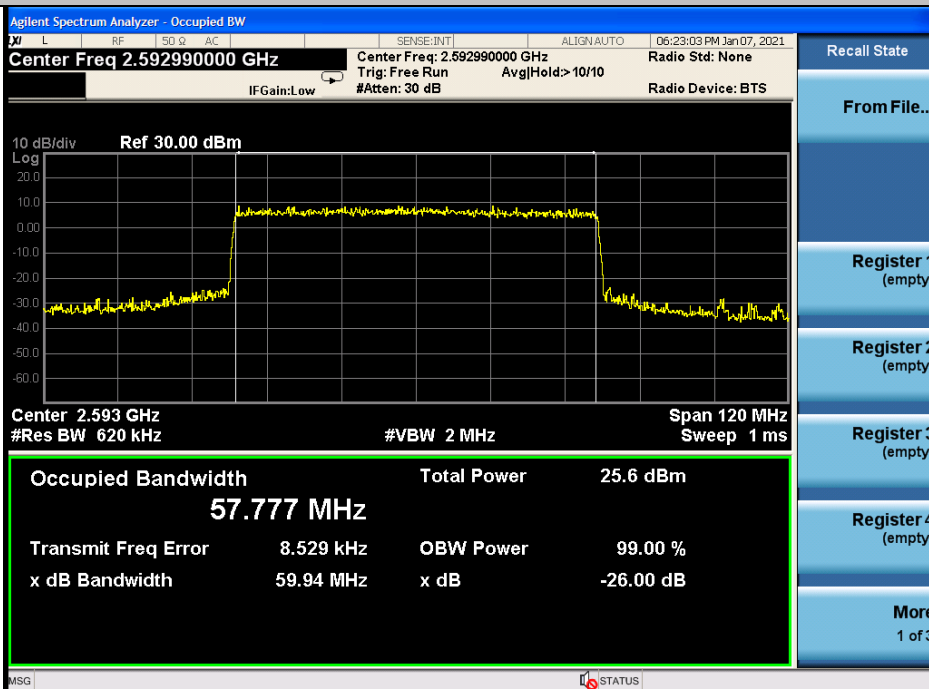
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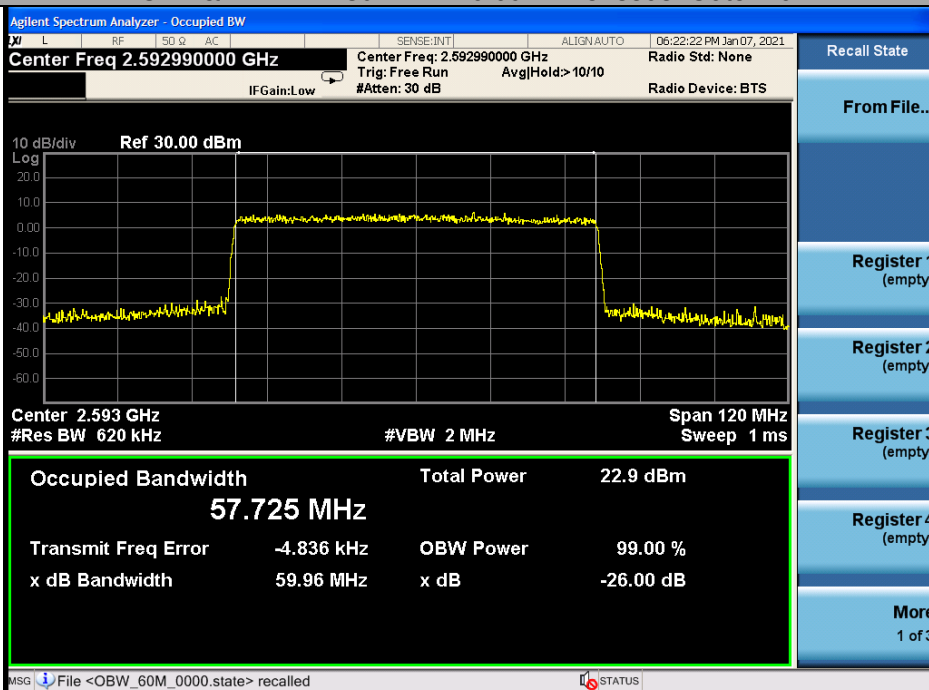
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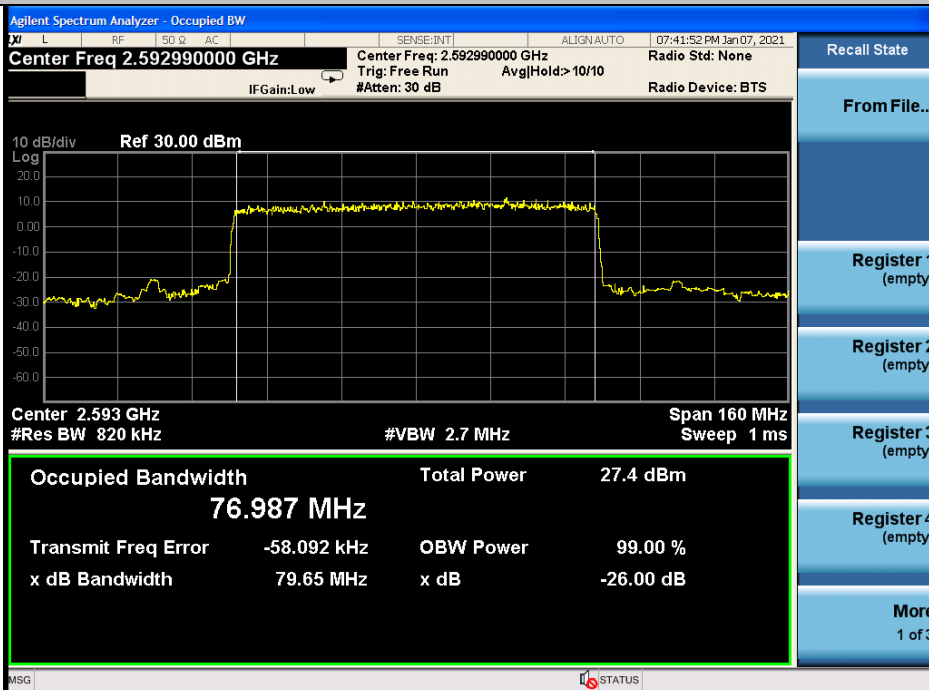
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OBW&EBW N41 30KHz TM9 60MHz 518598 Outer Full



OBW&EBW N41 30KHz TM1 80MHz 518598 Outer Full



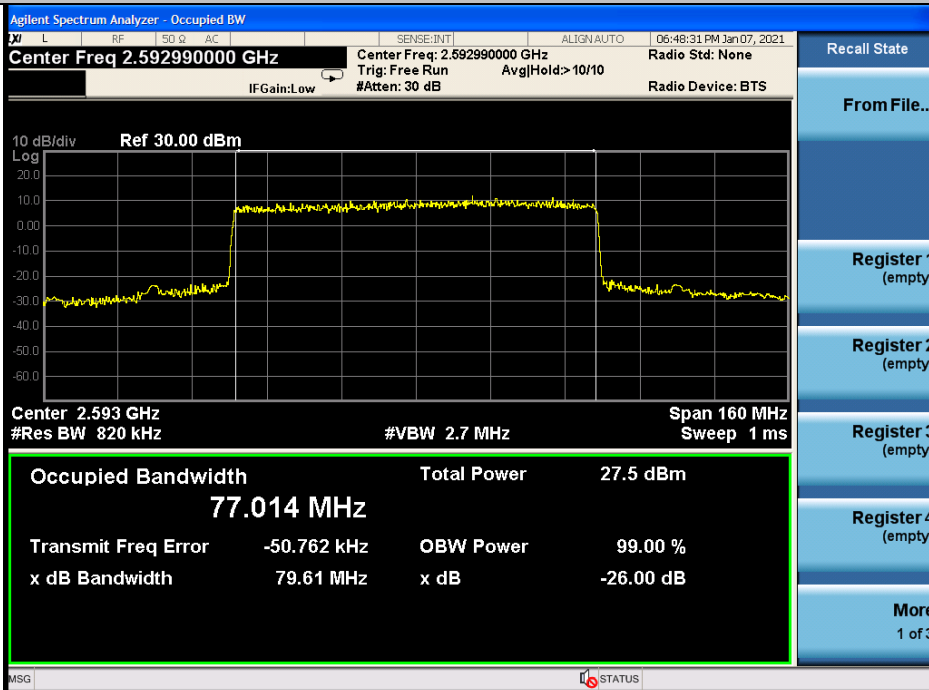
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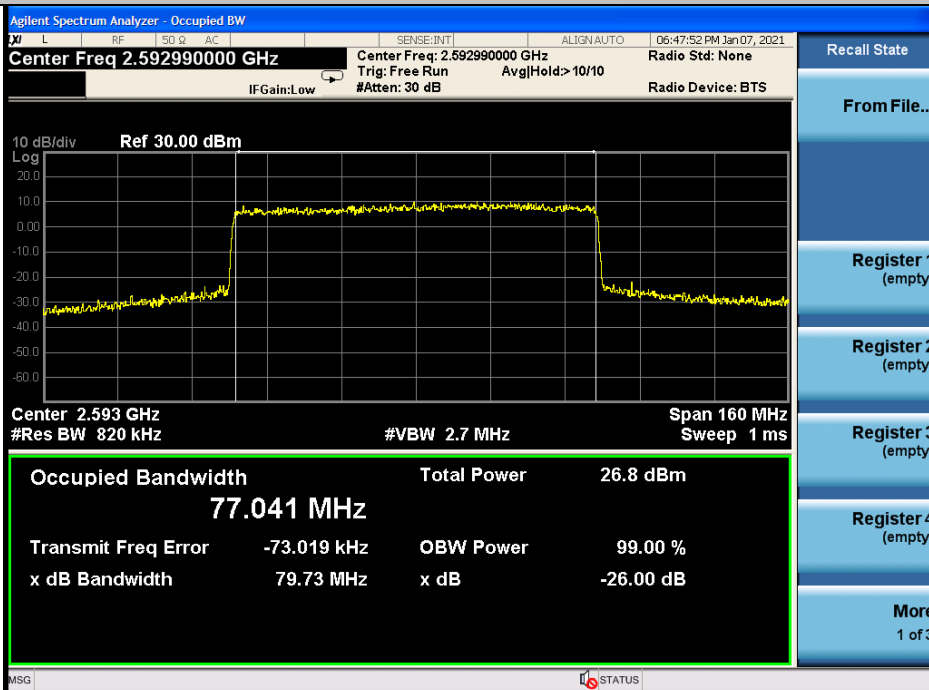
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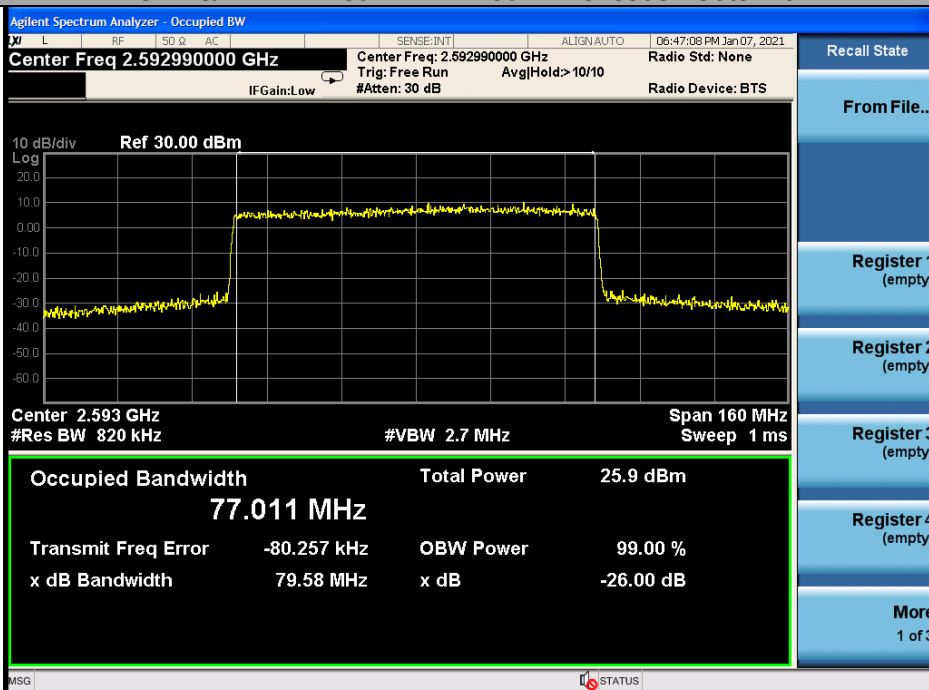
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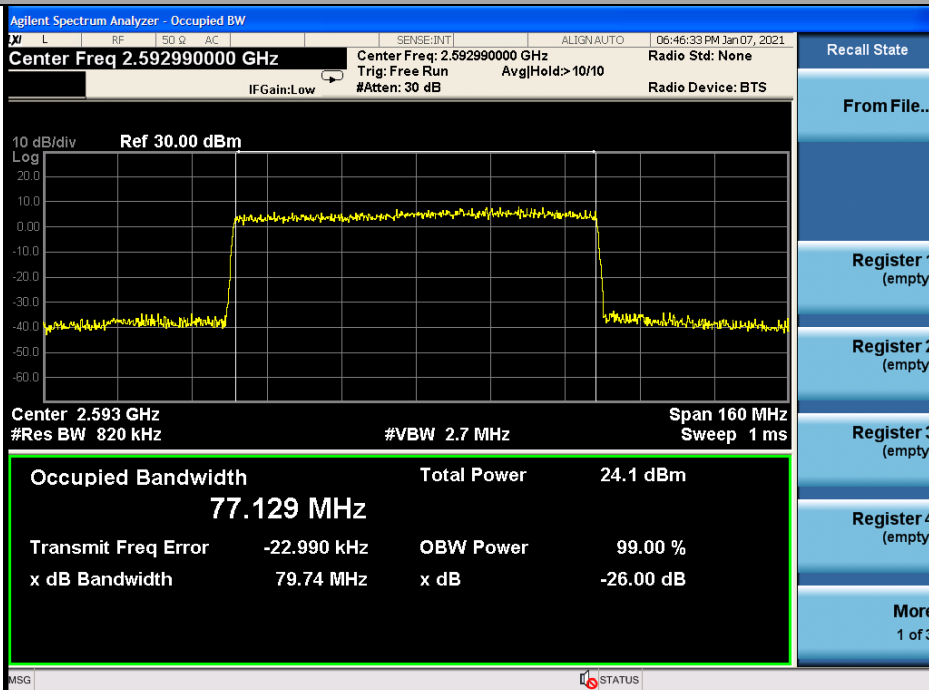
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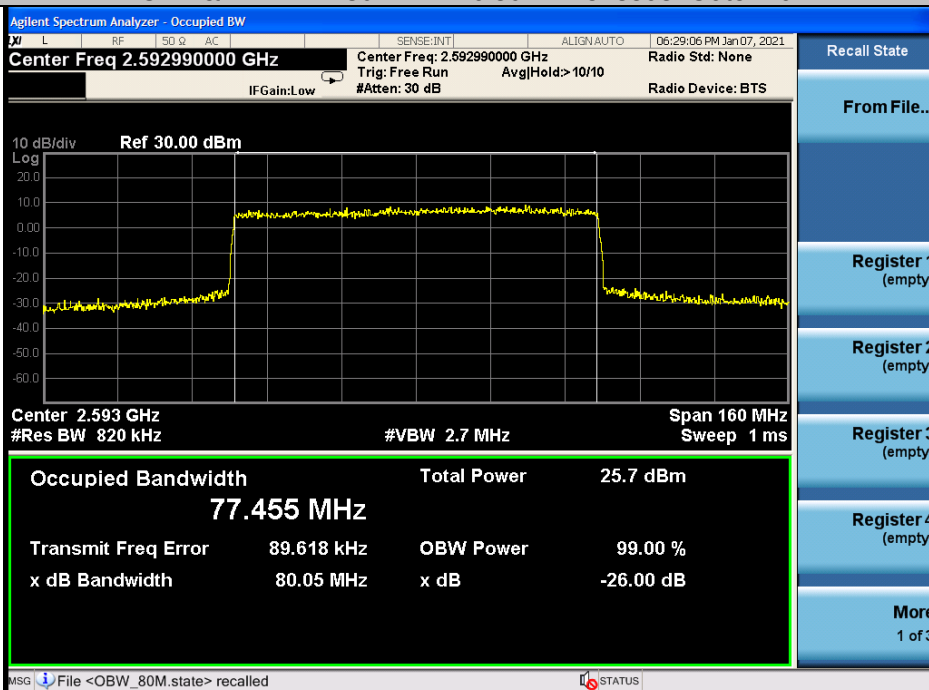
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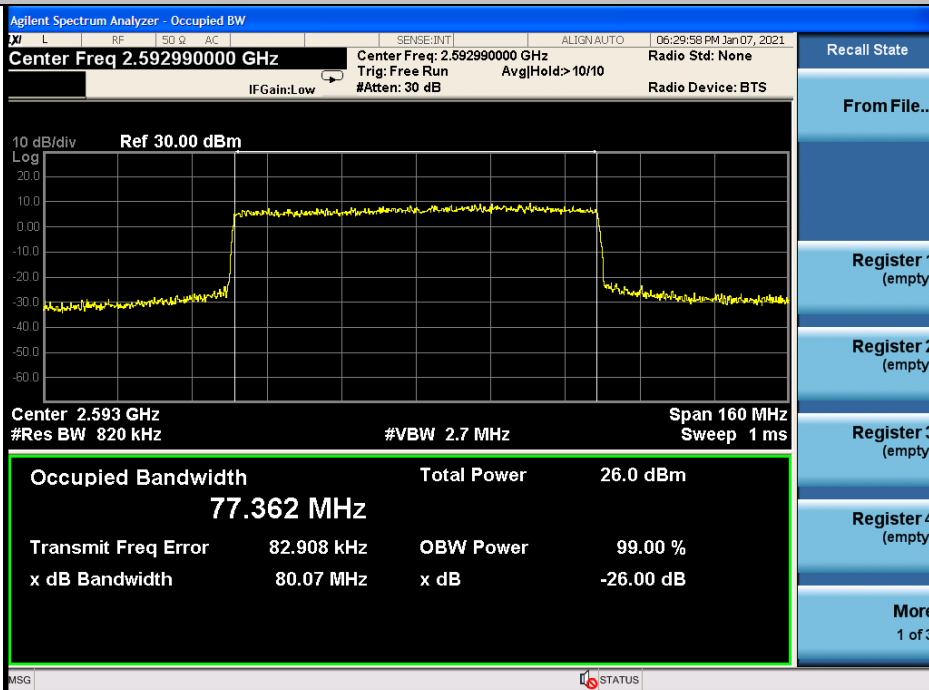
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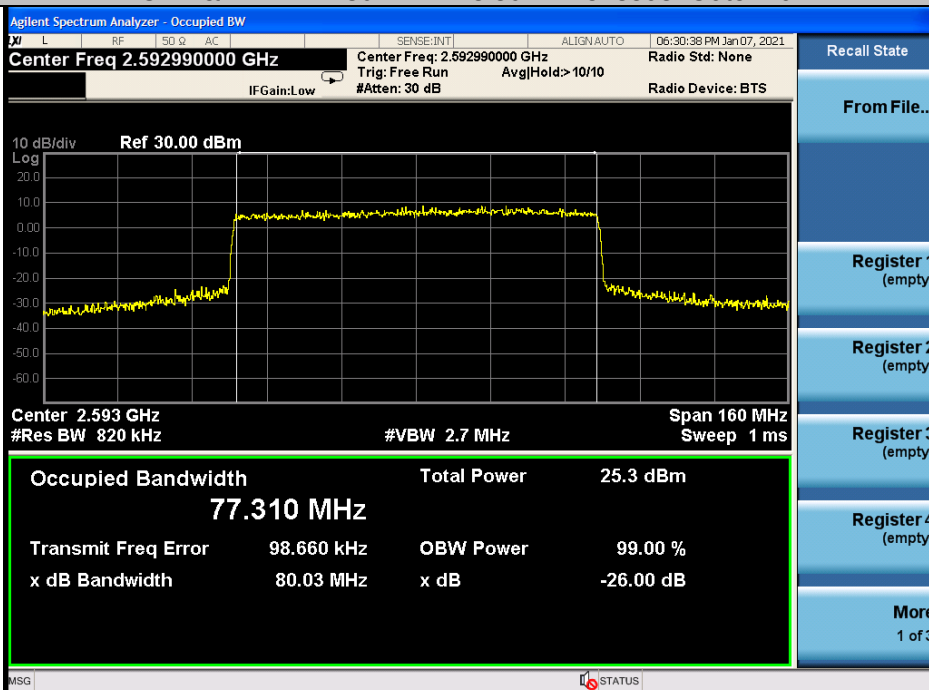
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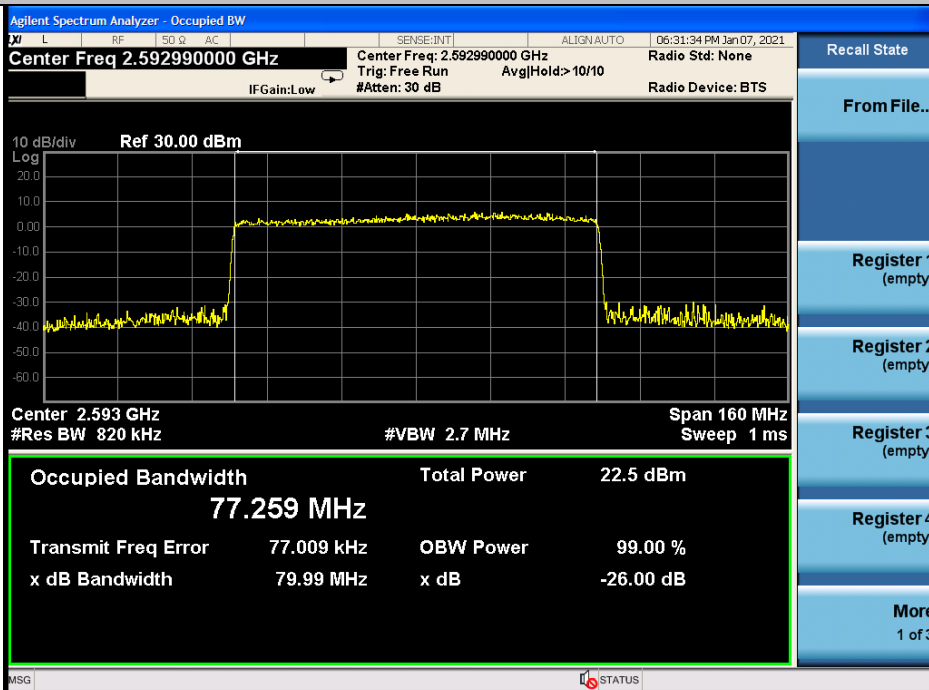
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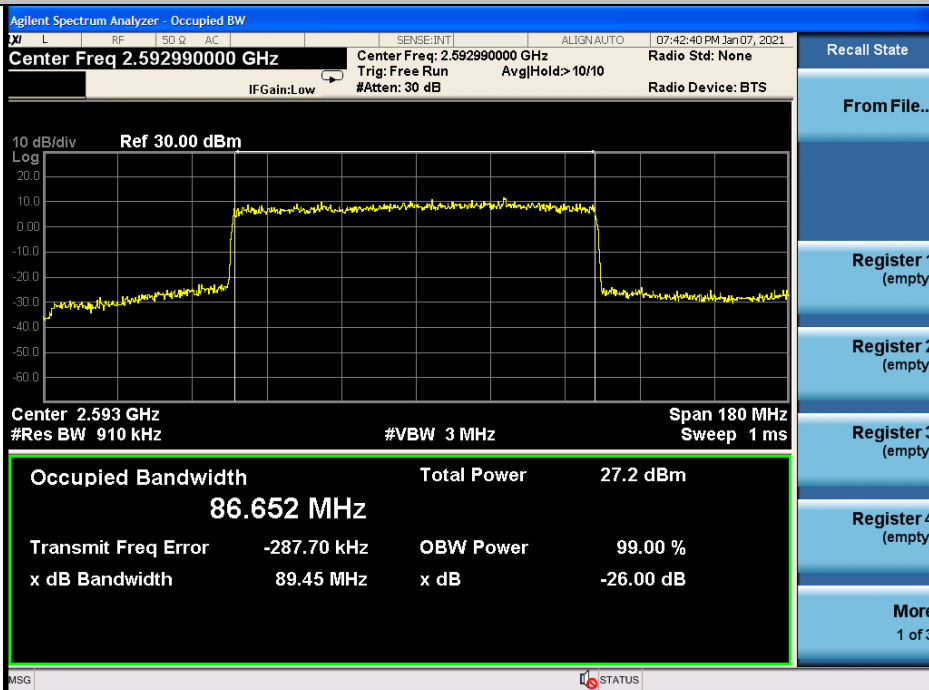
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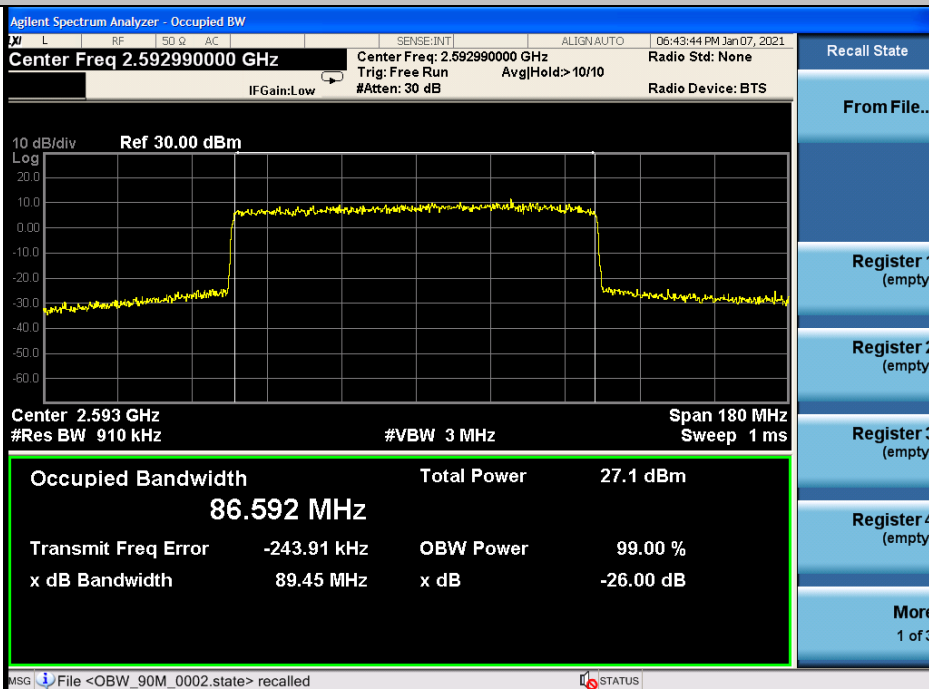
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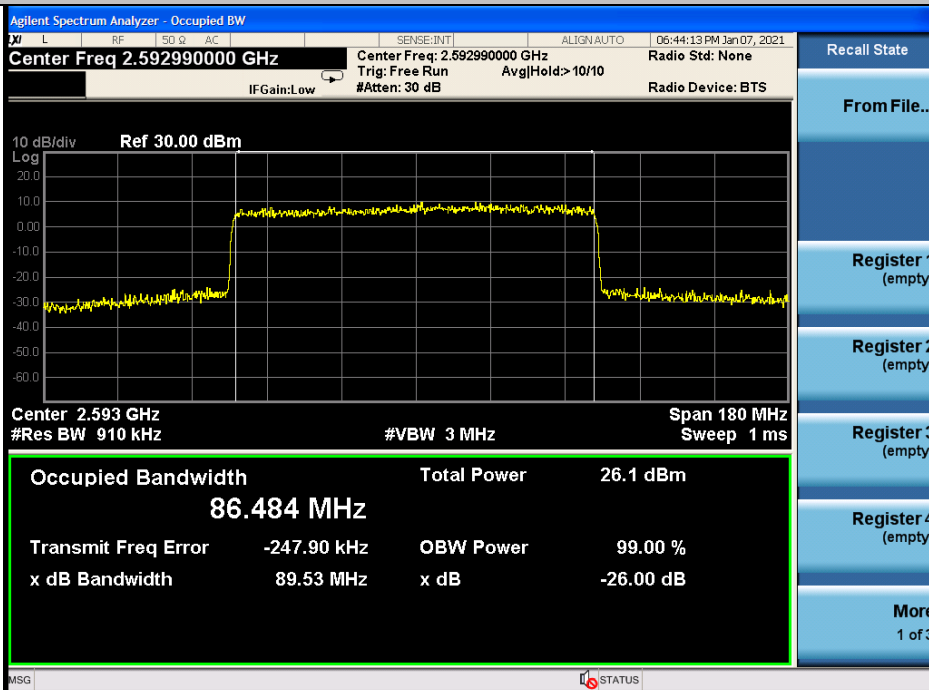
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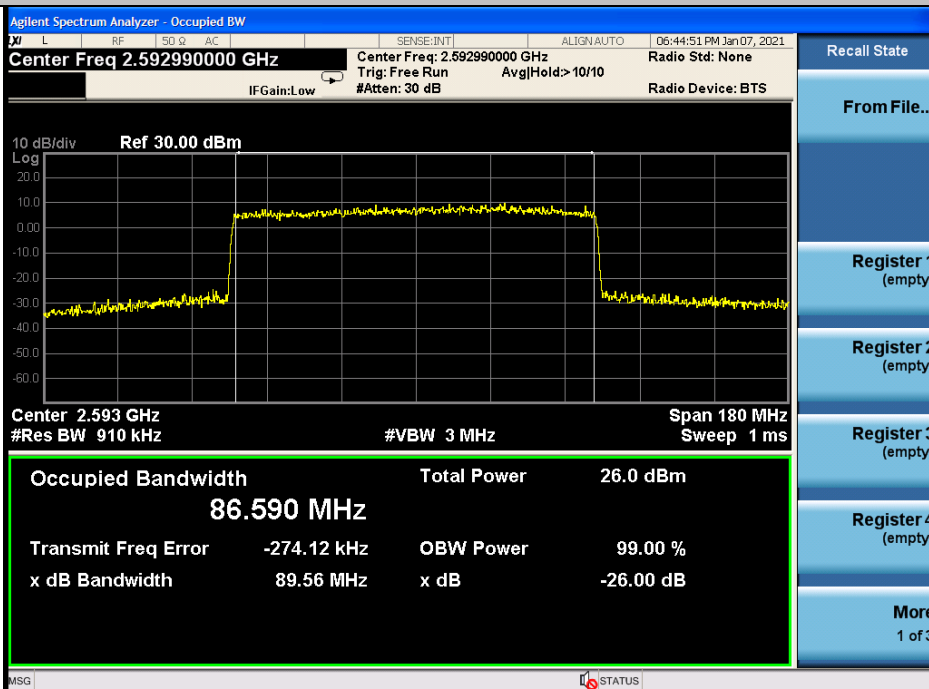
OBW&EBW N41 30KHz TM2 90MHz 518598 Outer Full



OBW&EBW N41 30KHz TM3 90MHz 518598 Outer Full



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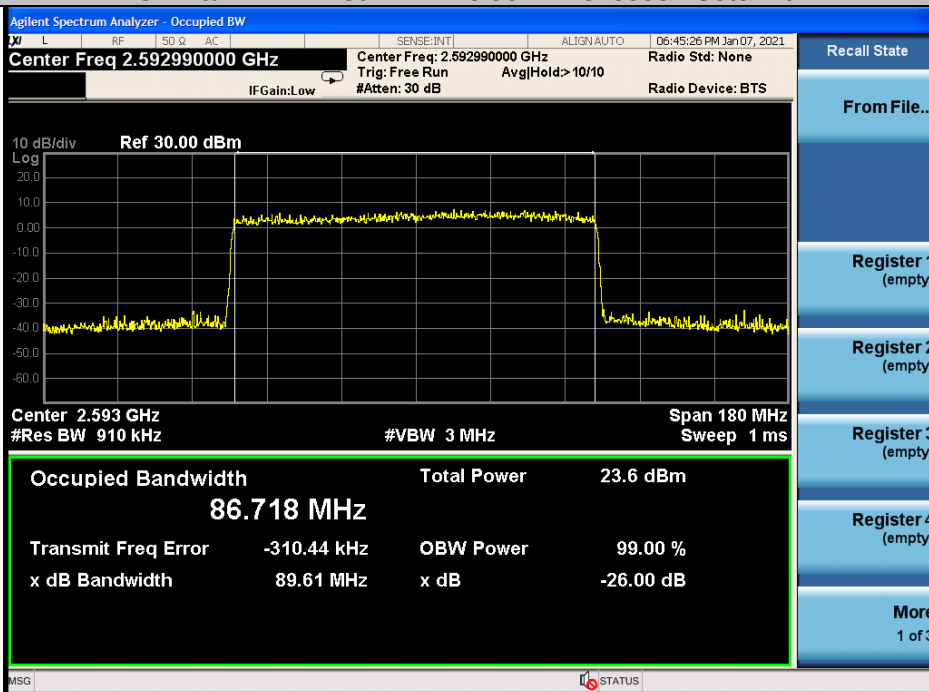
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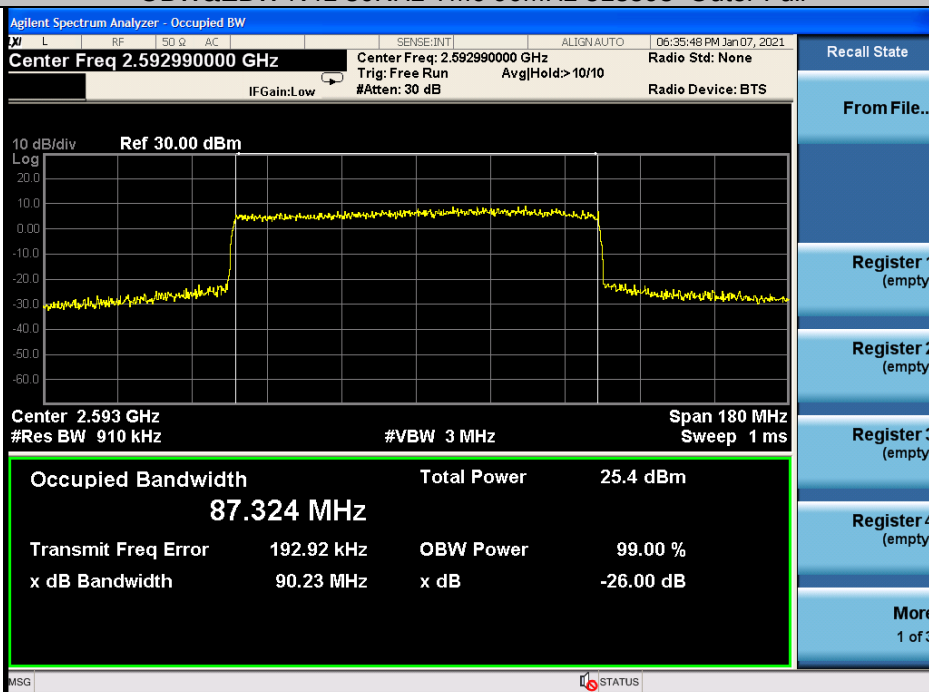
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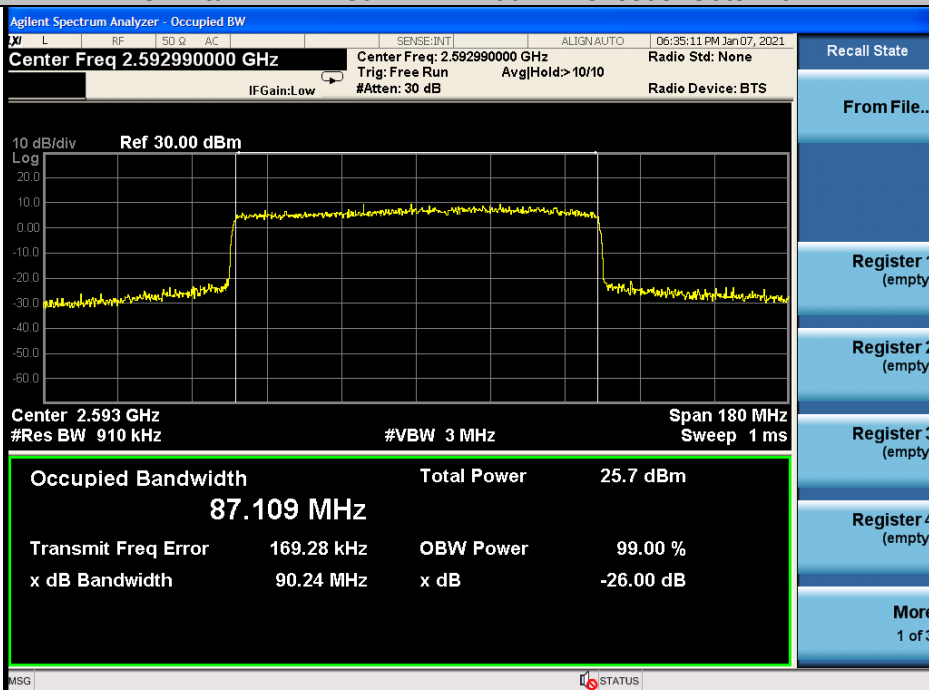
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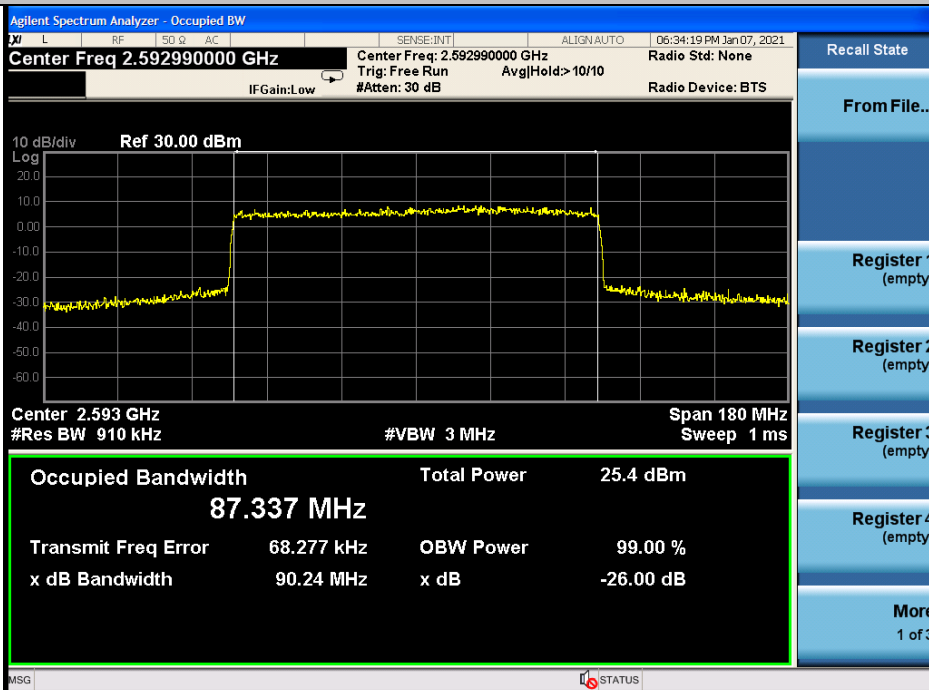
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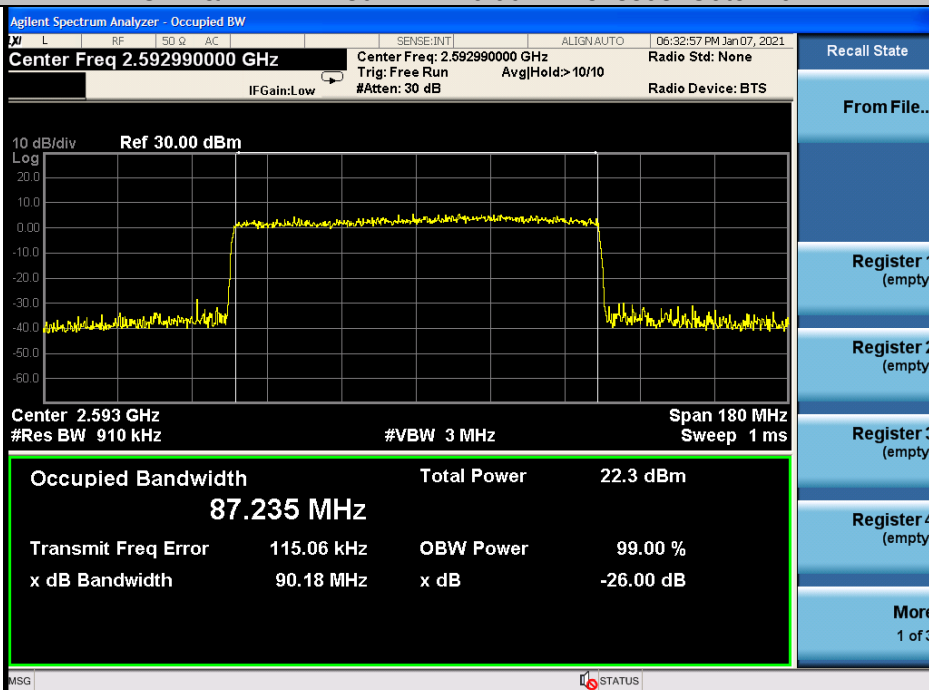
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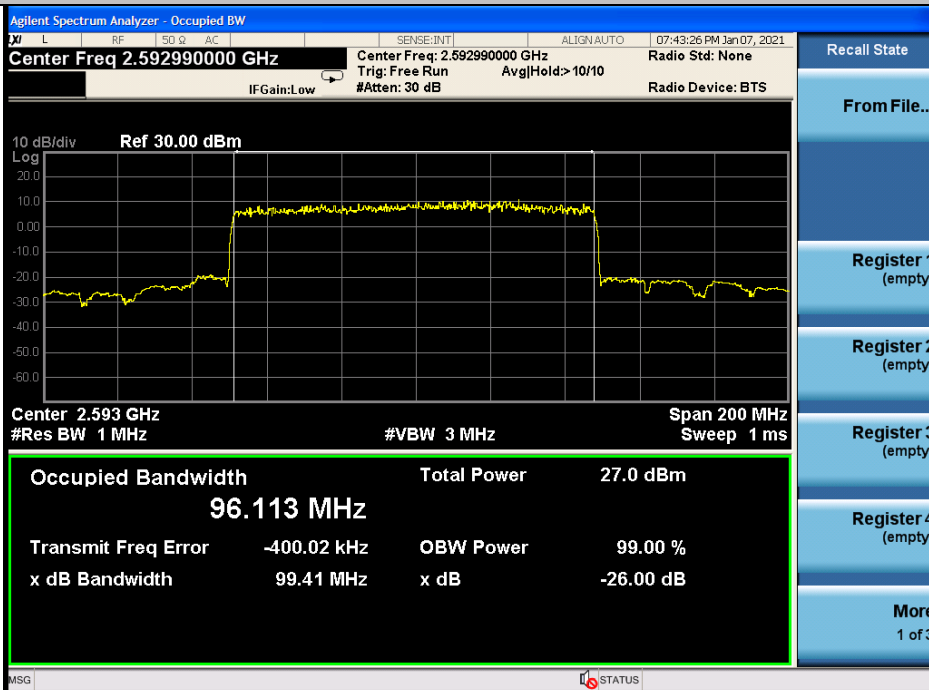
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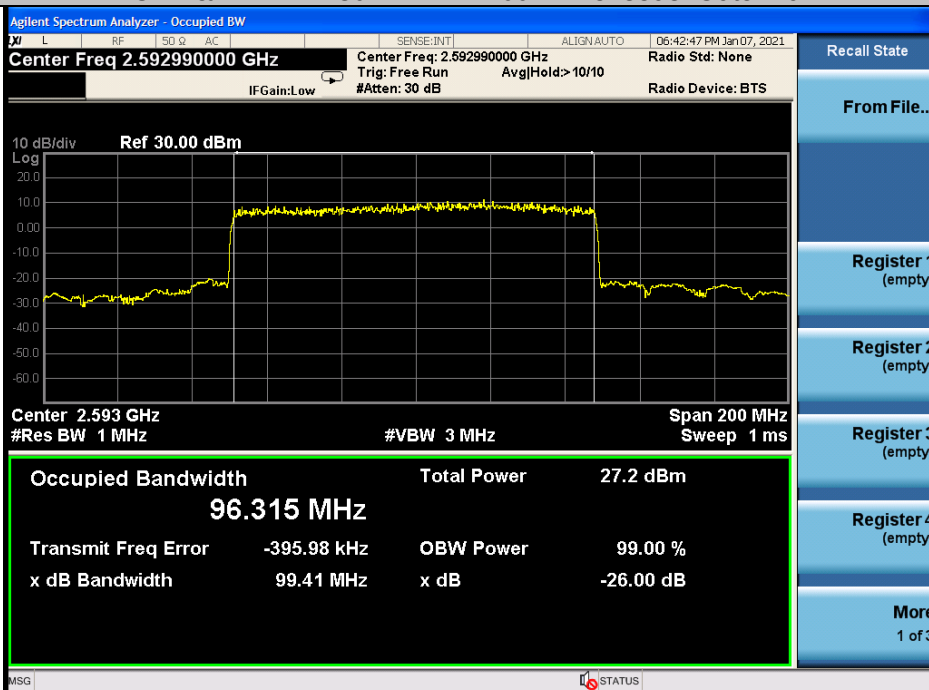
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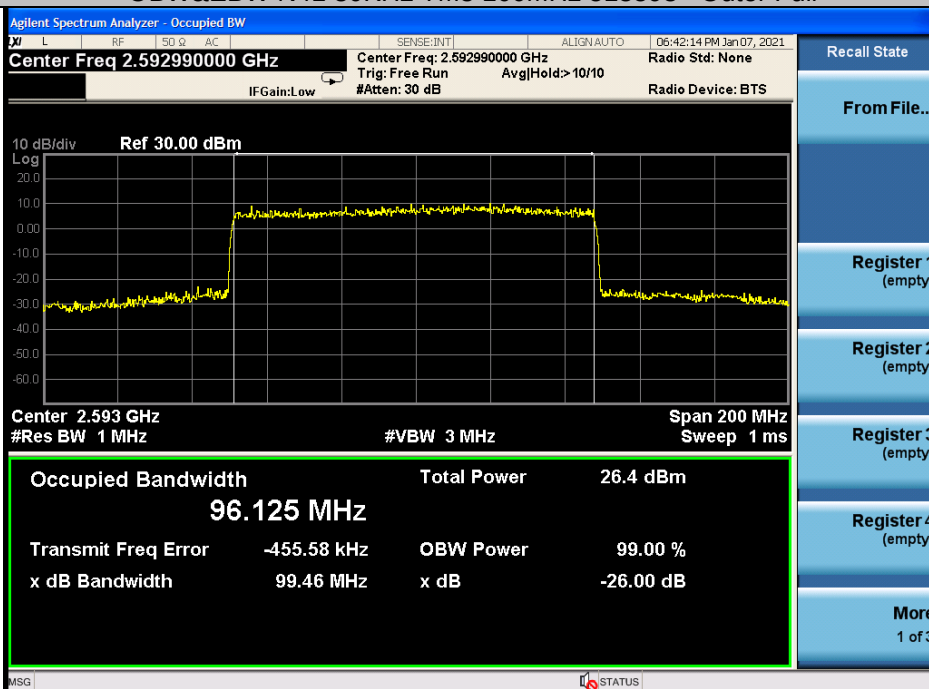
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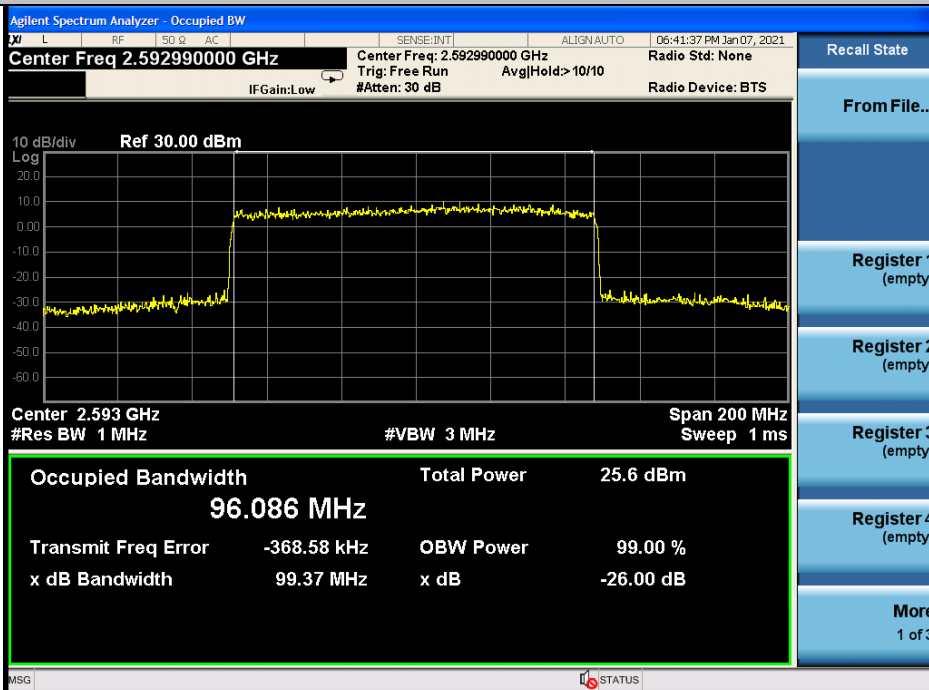
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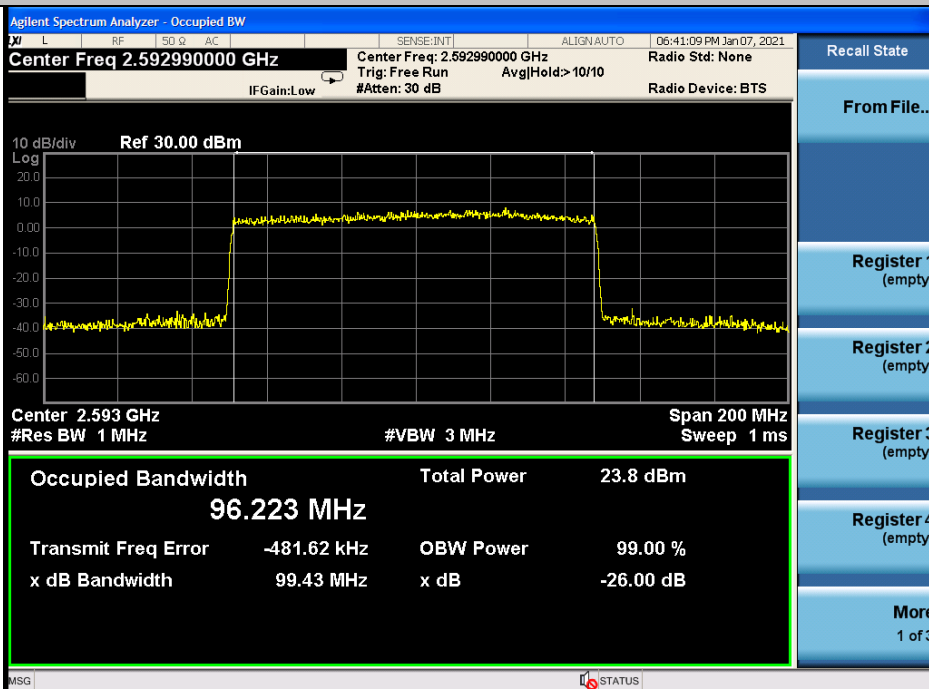
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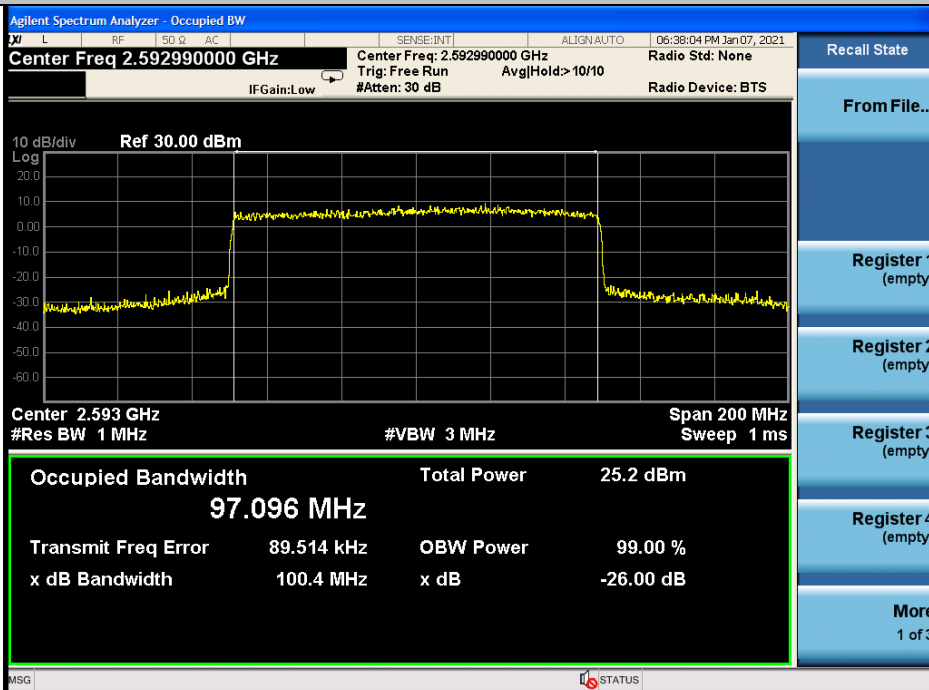
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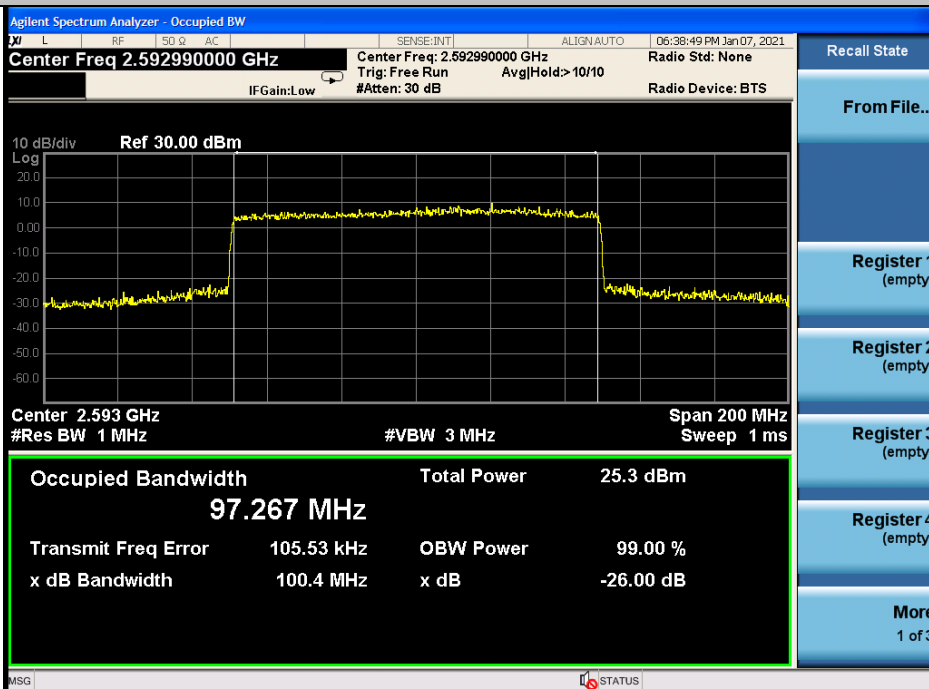
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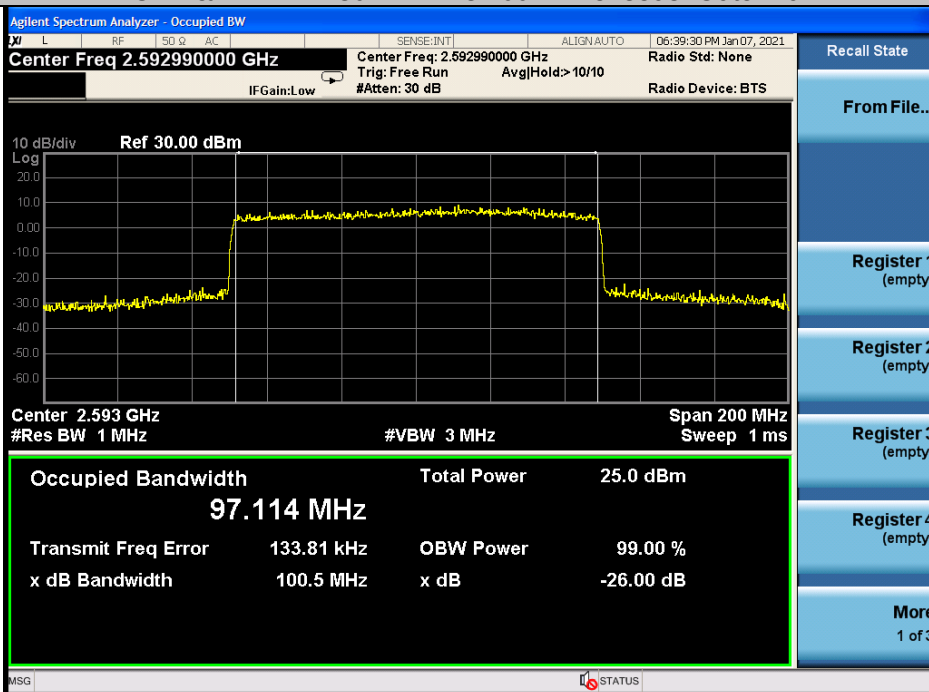
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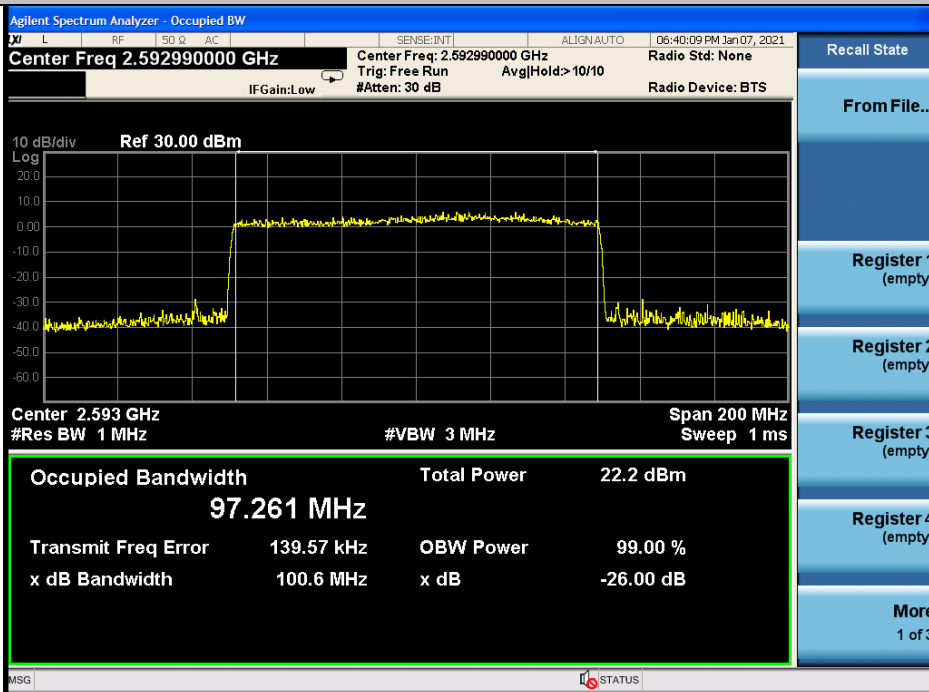
OBW&EBW N41 30KHz TM7 100MHz 518598 Outer Full



OBW&EBW N41 30KHz TM8 100MHz 518598 Outer Full



OBW&EBW N41 30KHz TM9 100MHz 518598 Outer Full



REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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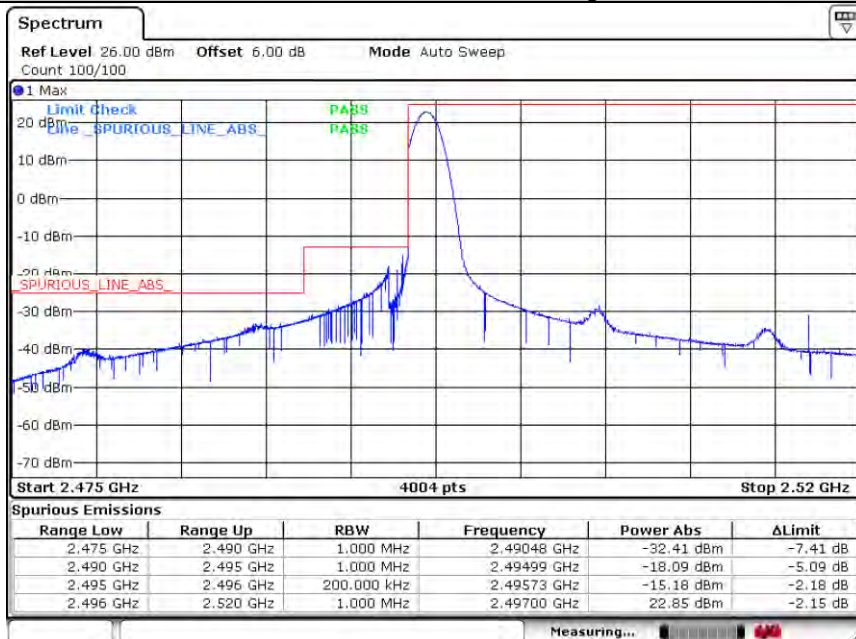


5 Band Edges Compliance

5.1 Test Plots

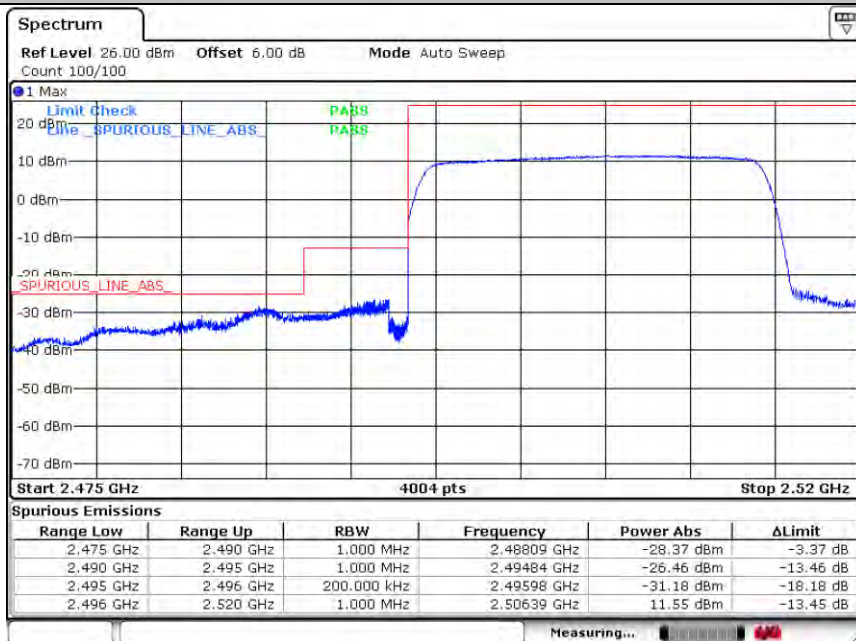


N41 30KHz TM1 20MHz 501204 Edge 1RB Left



Date: 18.JAN.2021 21:19:02

N41 30KHz TM1 20MHz 501204 Outer Full



Date: 18.JAN.2021 21:07:26



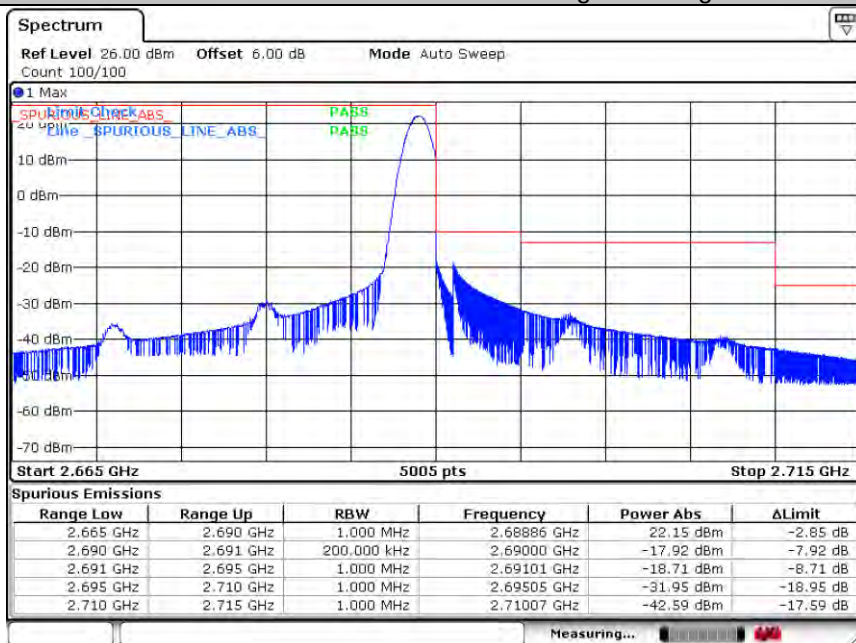
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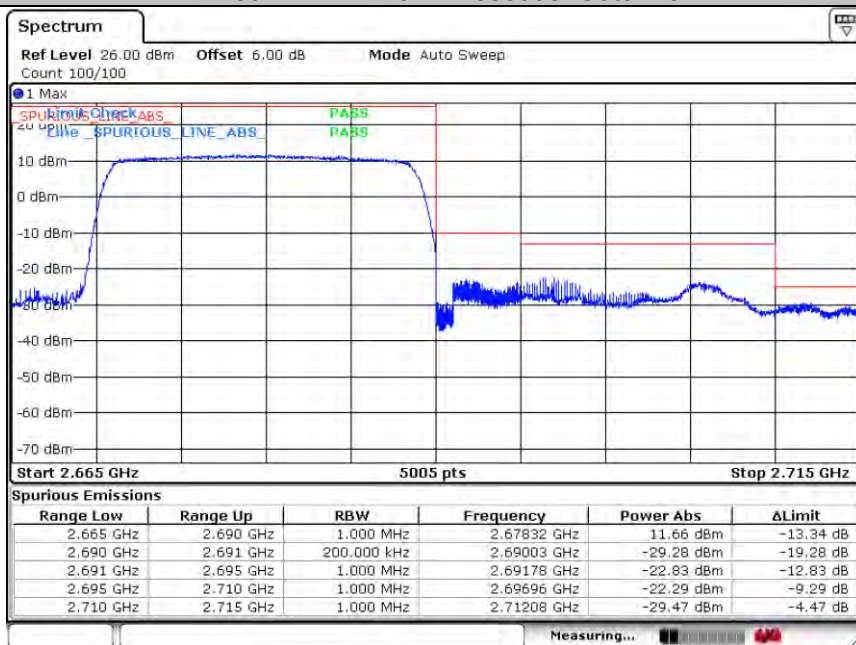
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N41 30KHz TM1 20MHz 535998 Edge 1RB Right



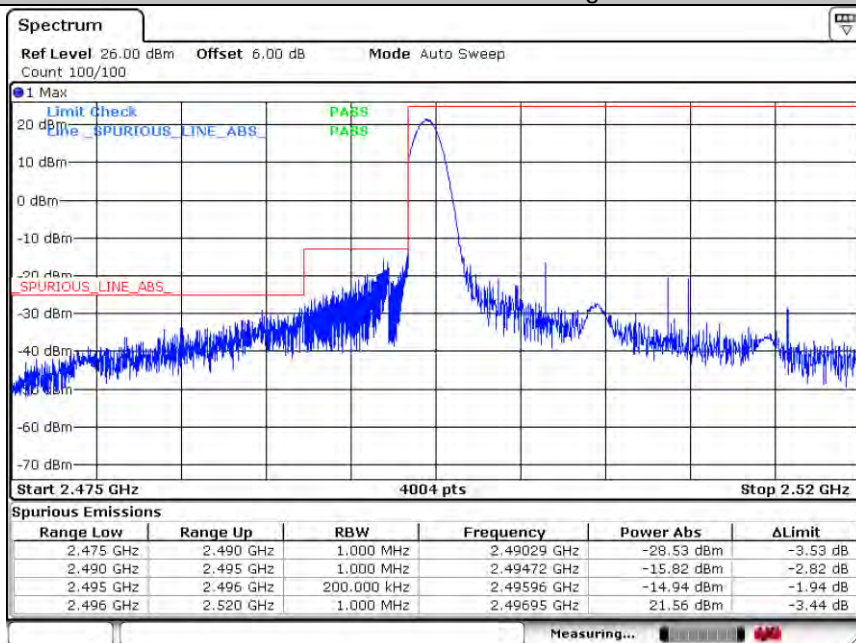
Date: 11.JAN.2021 19:15:15

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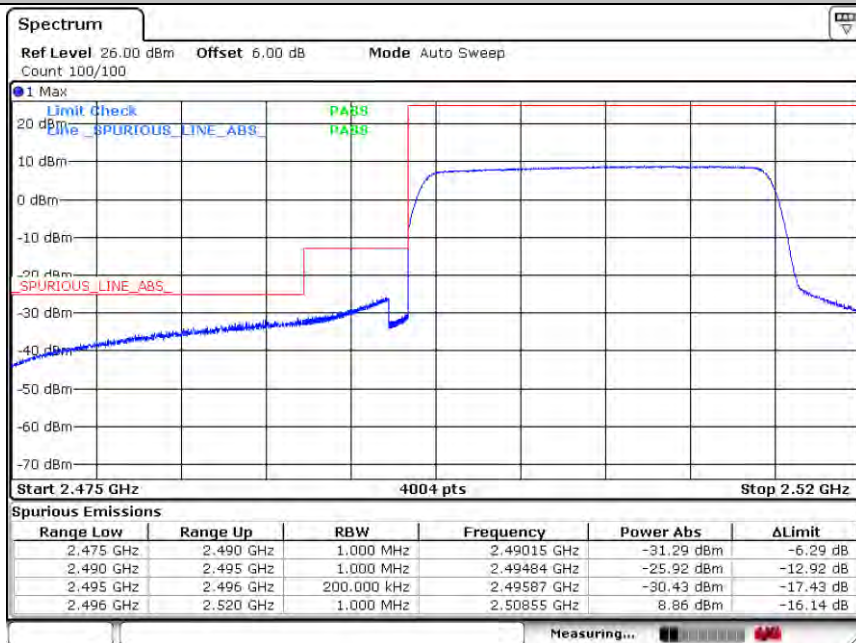
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N41 30KHz TM6 20MHz 501204 Edge 1RB Left



Date: 18.JAN.2021 21:17:50

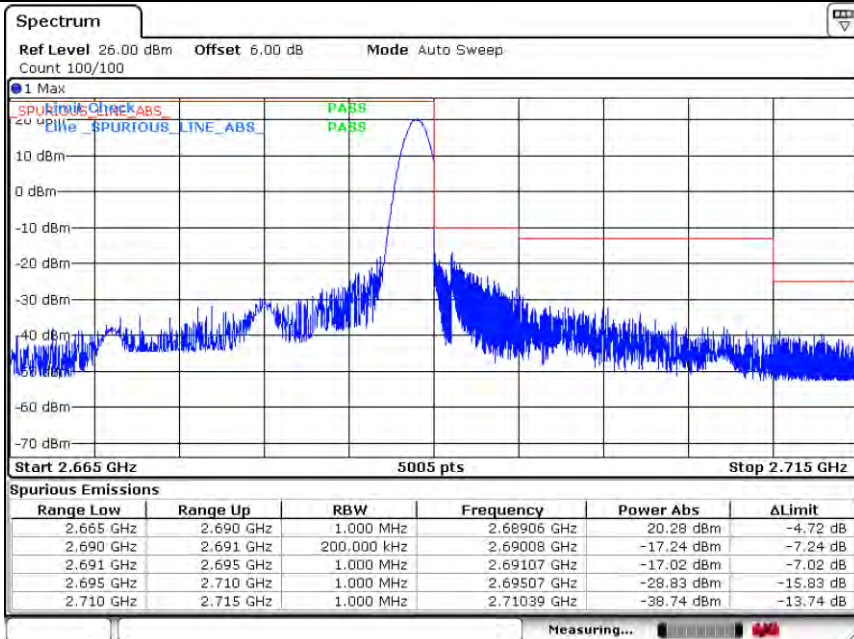
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Date: 18.JAN.2021 21:15:12

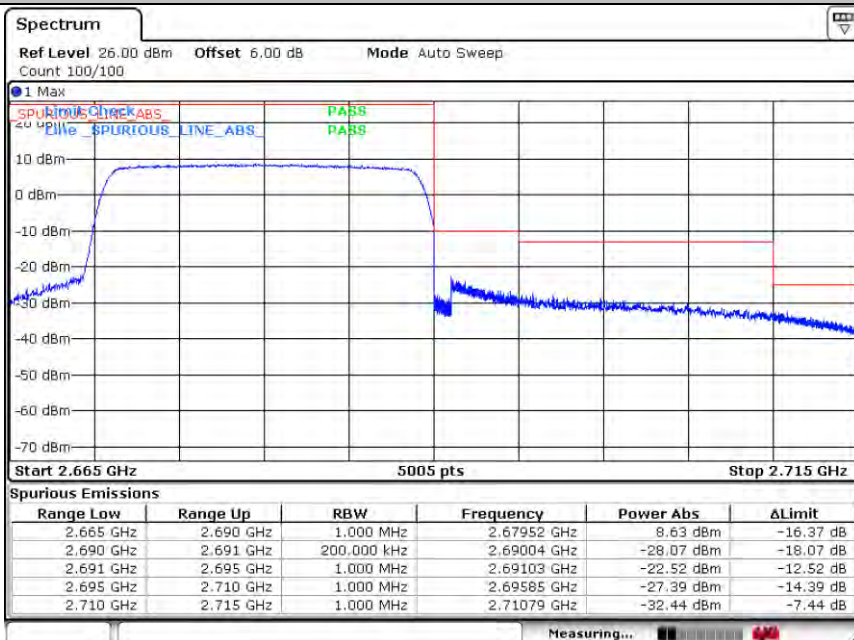


N41 30KHz TM6 20MHz 535998 Edge 1RB Right



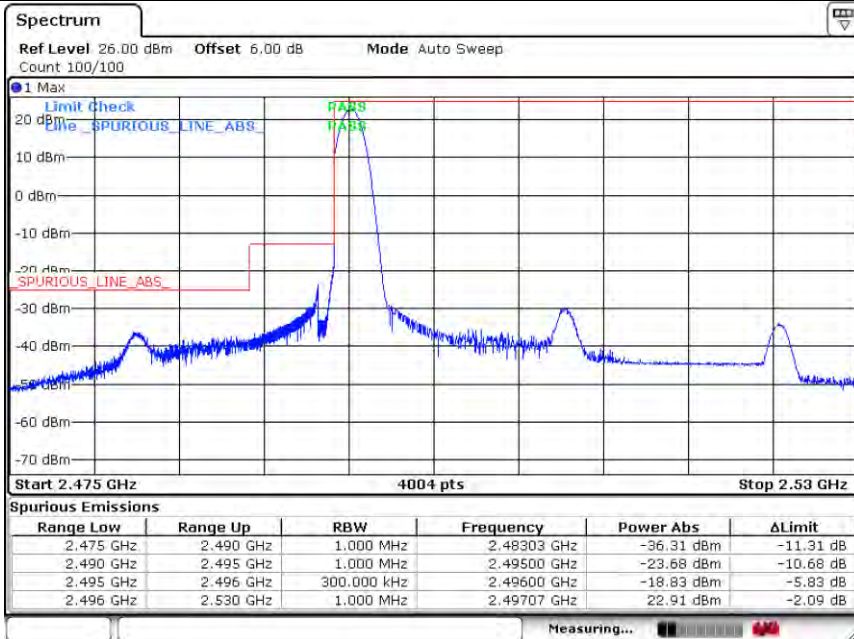
Date: 11.JAN.2021 19:18:29

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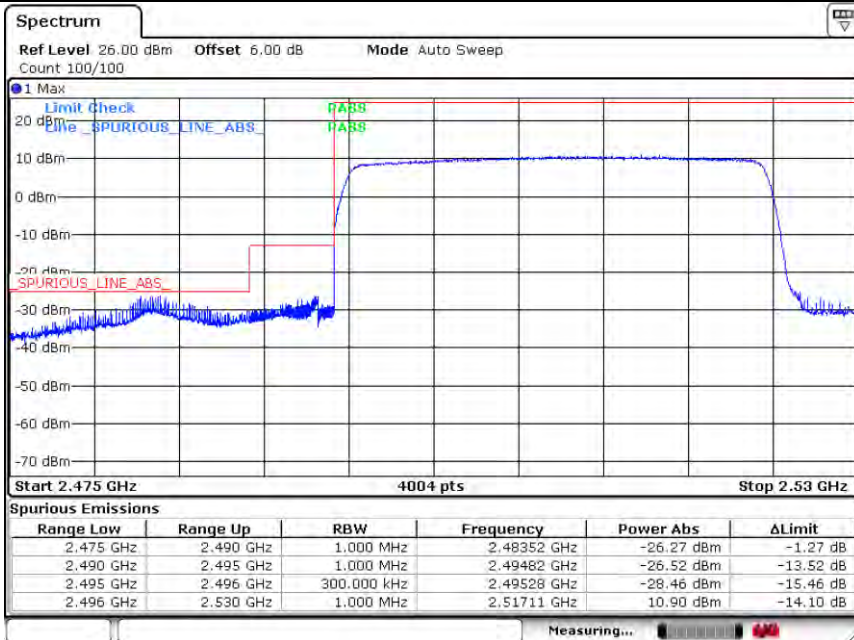
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N41 30KHz TM1 30MHz 502200 Edge 1RB Left



Date: 18. JAN 2021 20:30:28

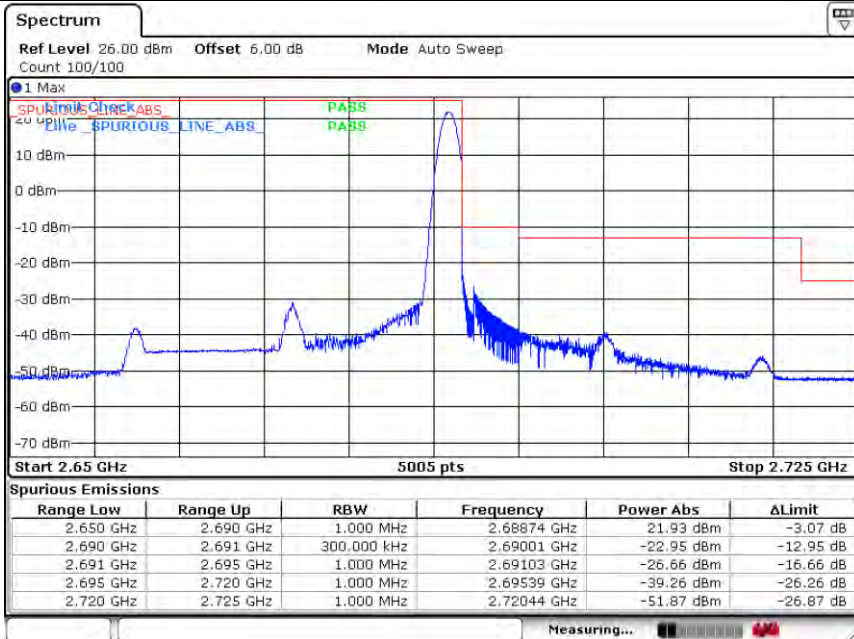
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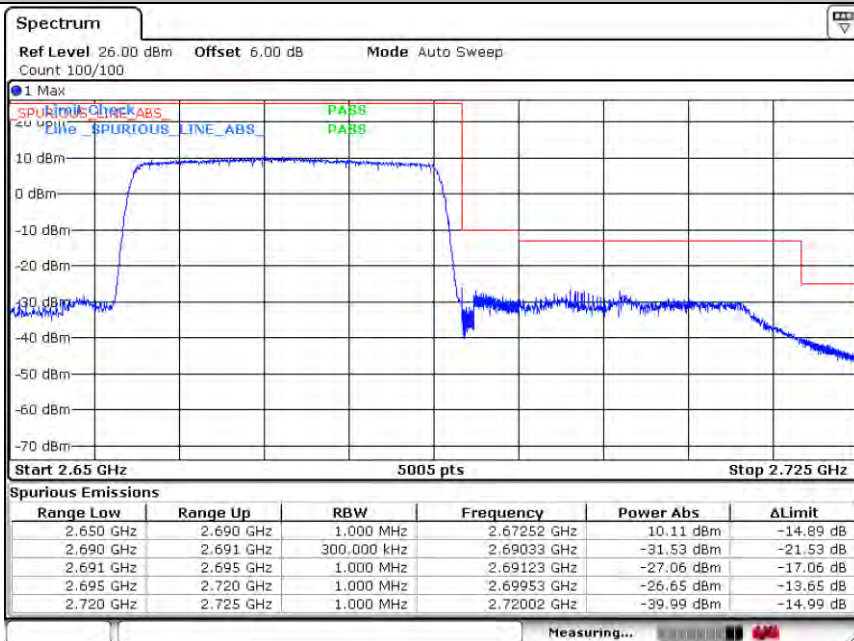


N41 30KHz TM1 30MHz 534996 Edge 1RB Right



Date: 11.JAN.2021 20:07:32

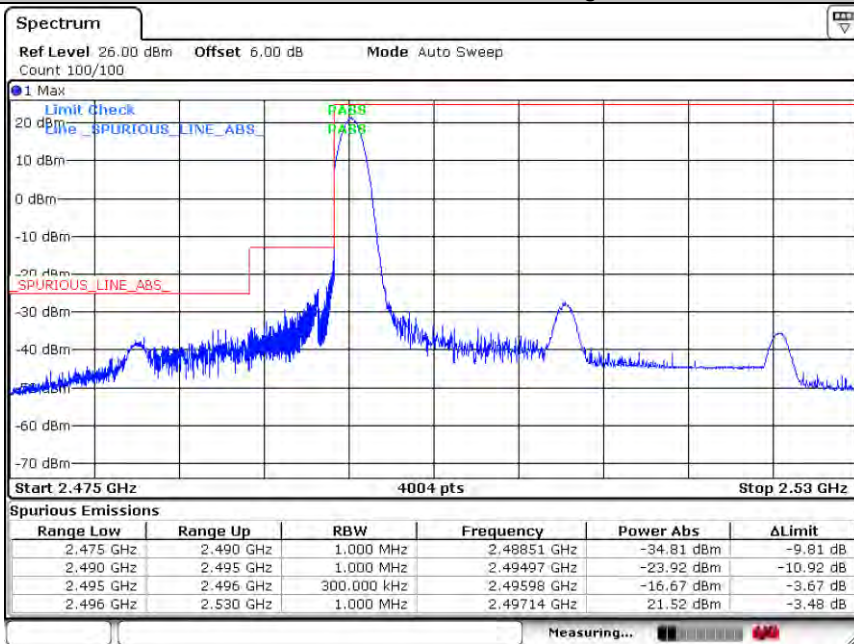
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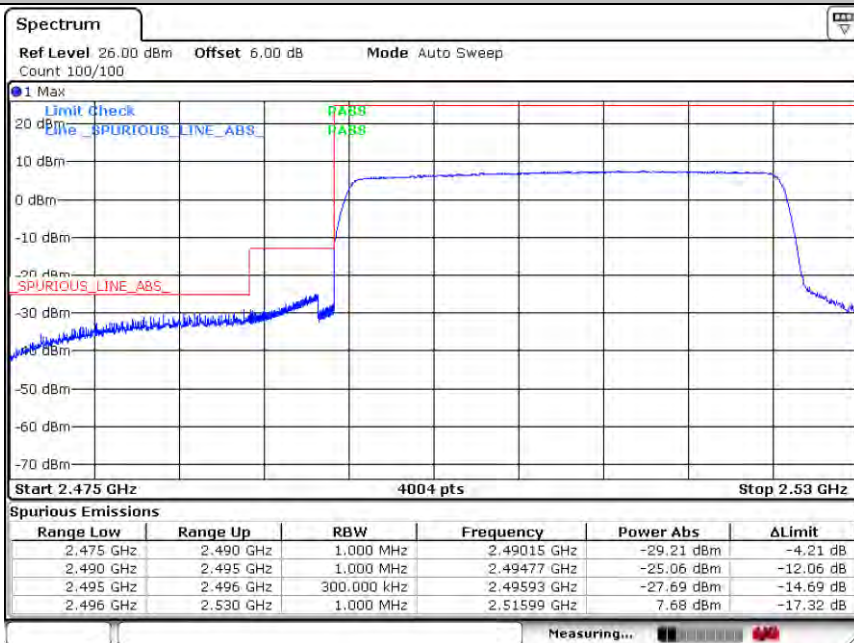


N41 30KHz TM6 30MHz 502200 Edge 1RB Left



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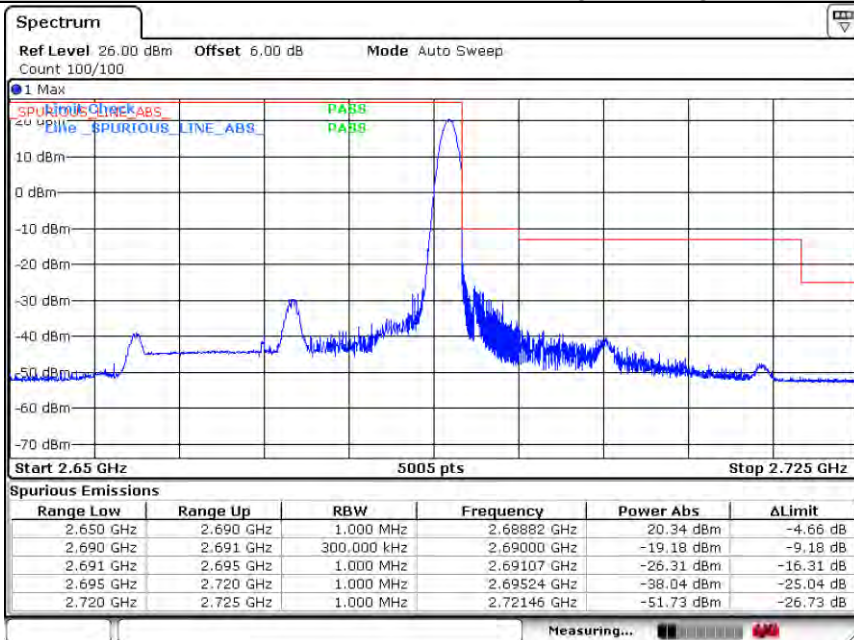
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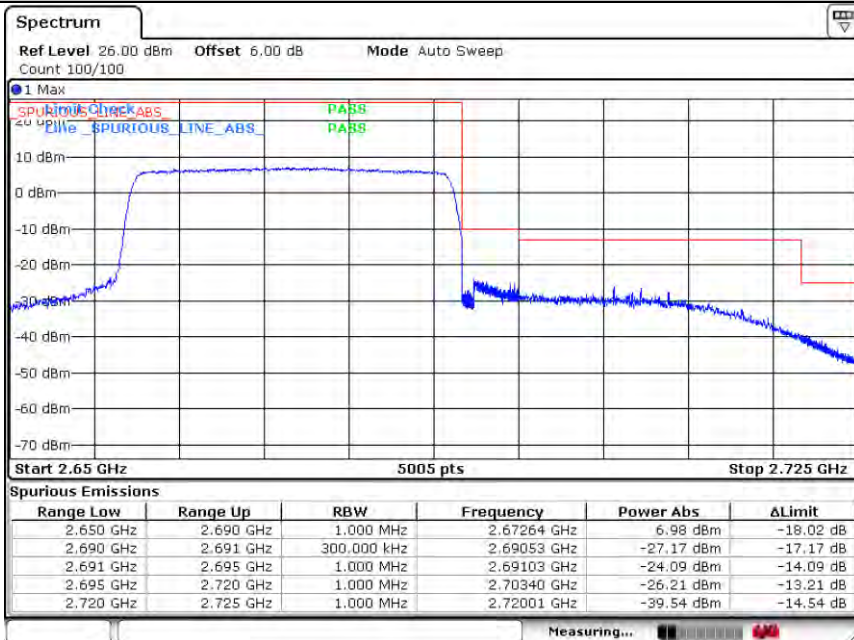


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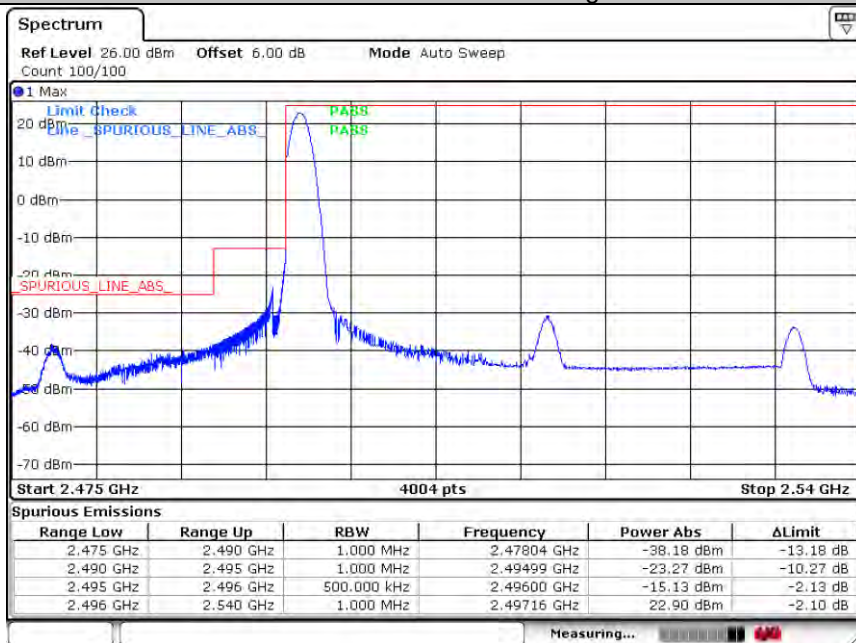
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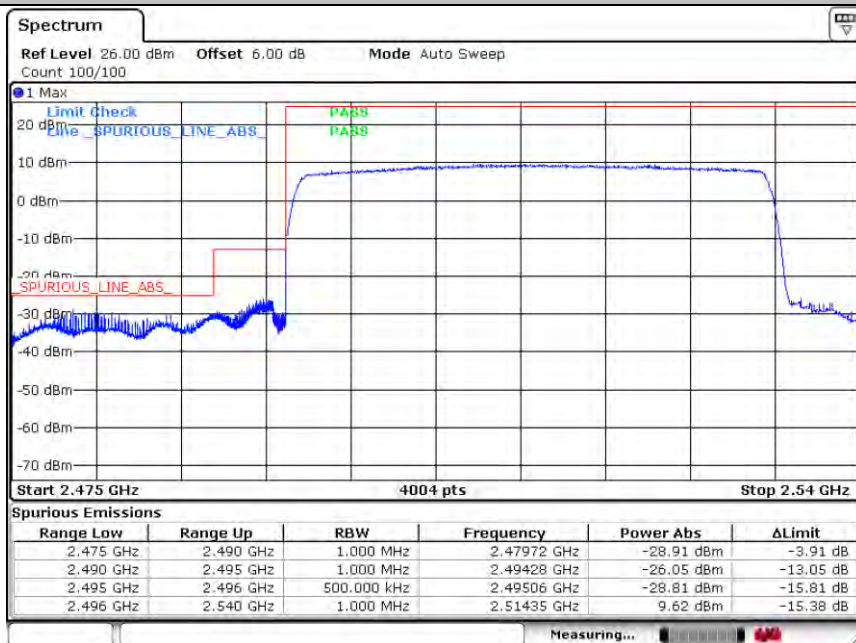


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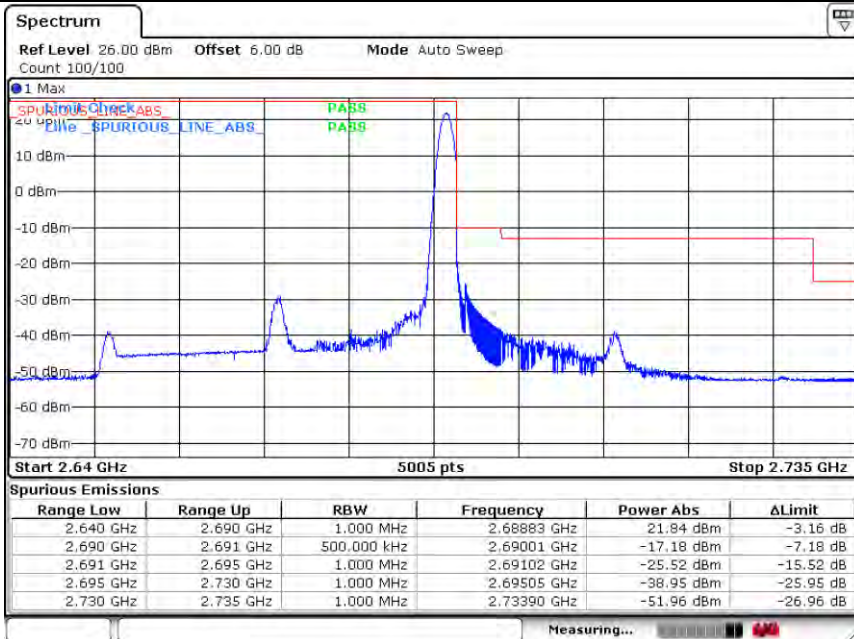
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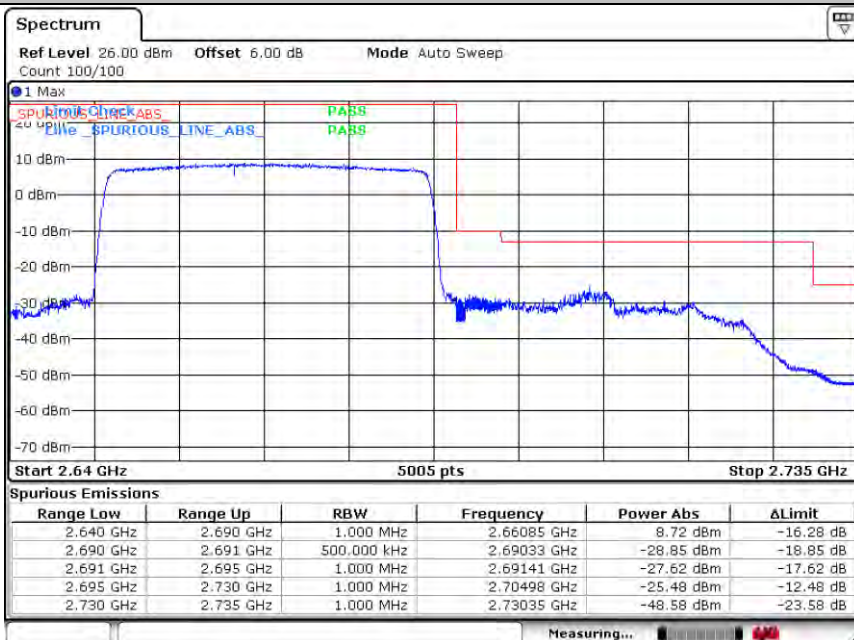


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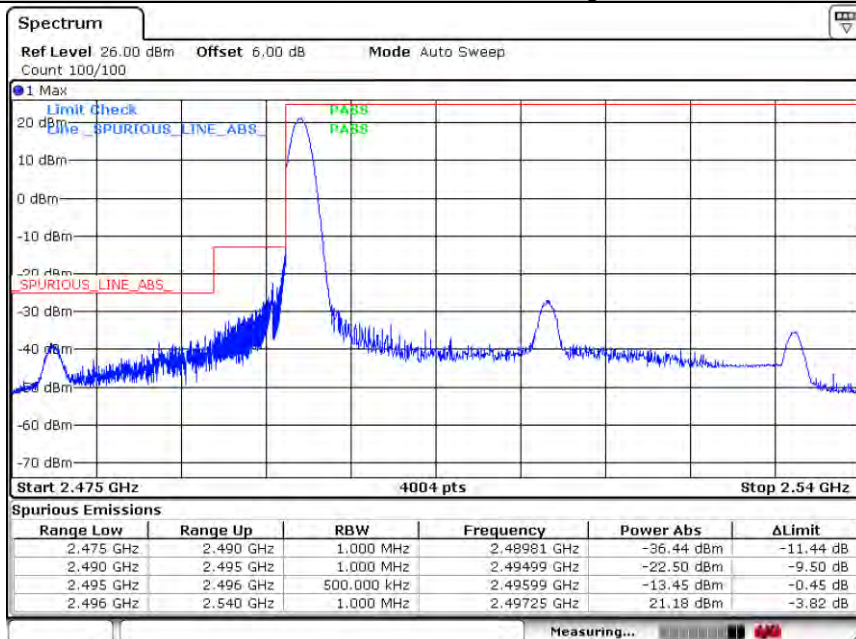
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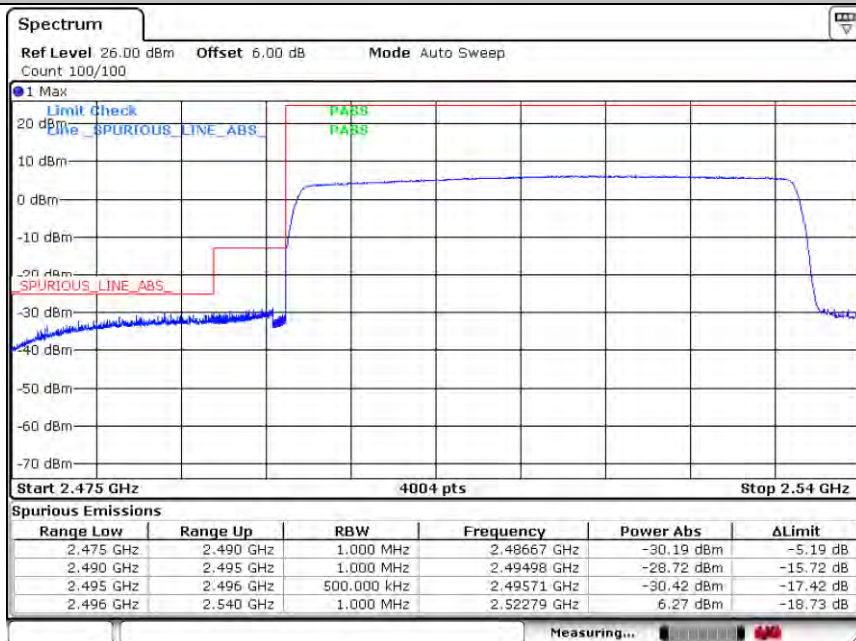


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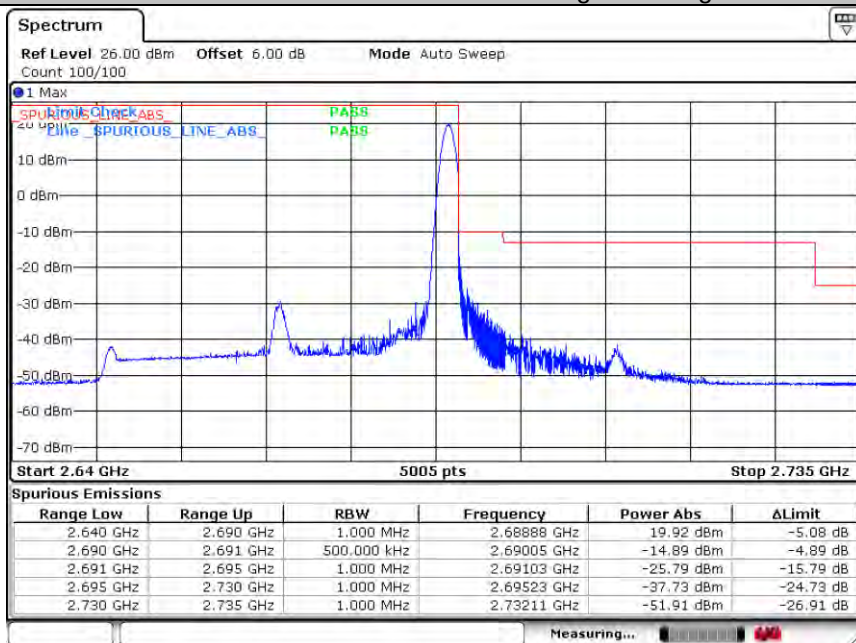
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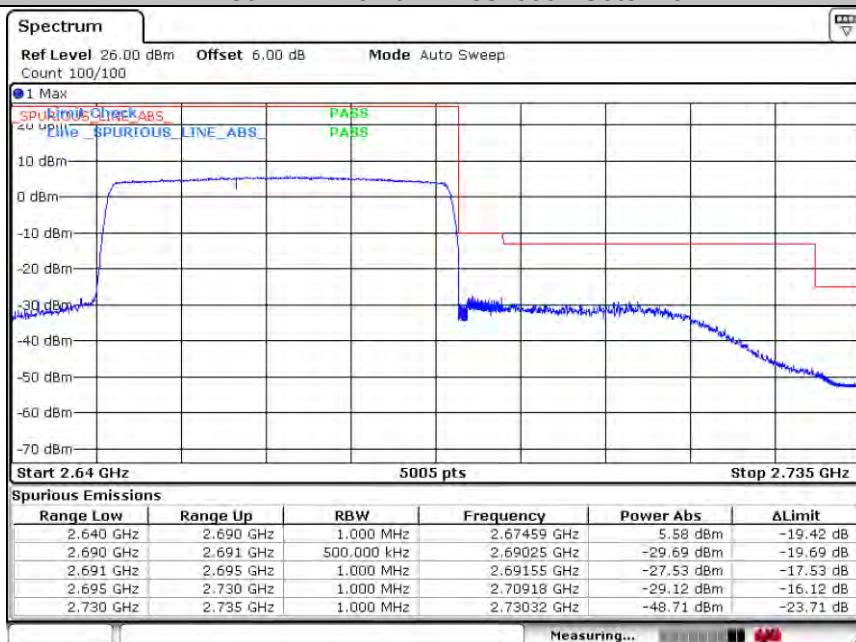


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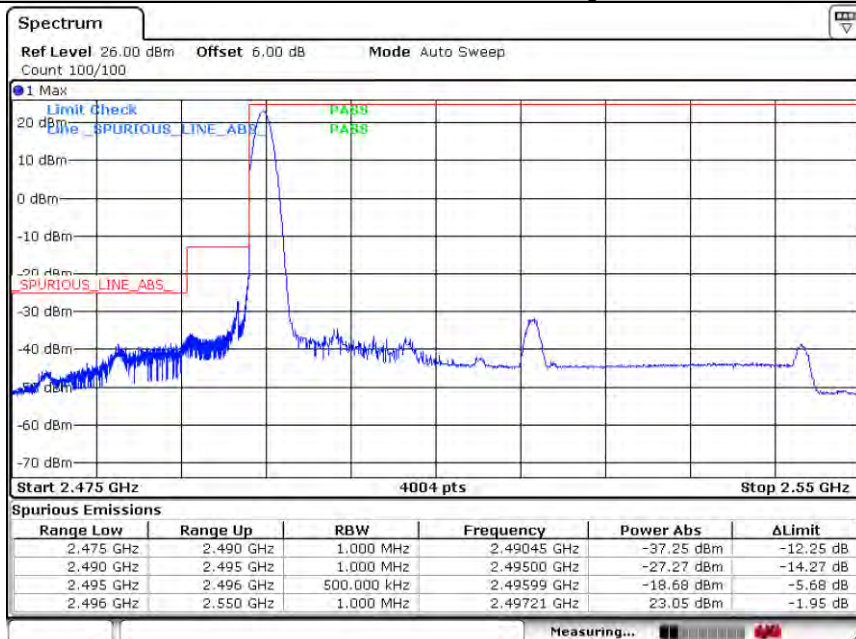
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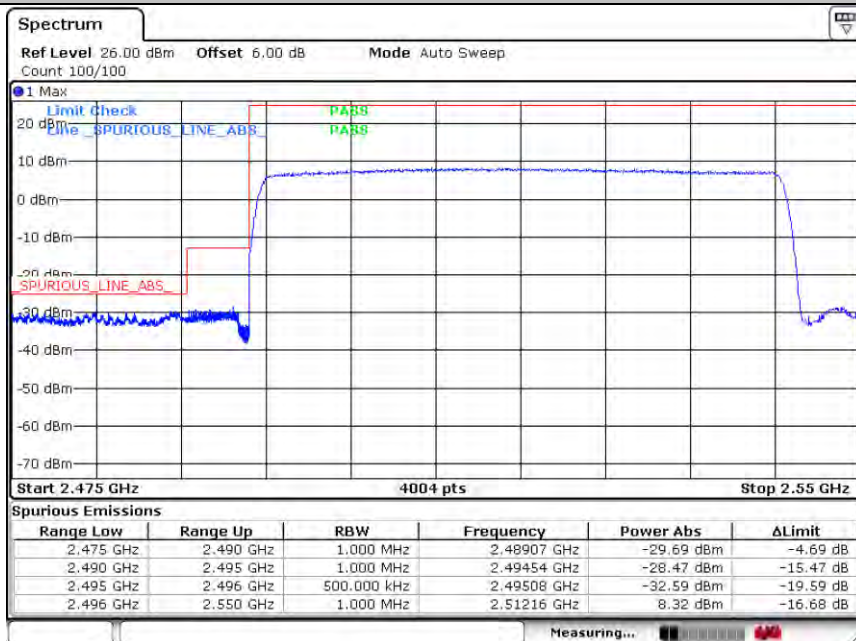
Date: 11.JAN.2021 20:12:52

N41 30KHz TM1 50MHz 504204 Edge 1RB Left



Date: 18.JAN.2021 20:20:11

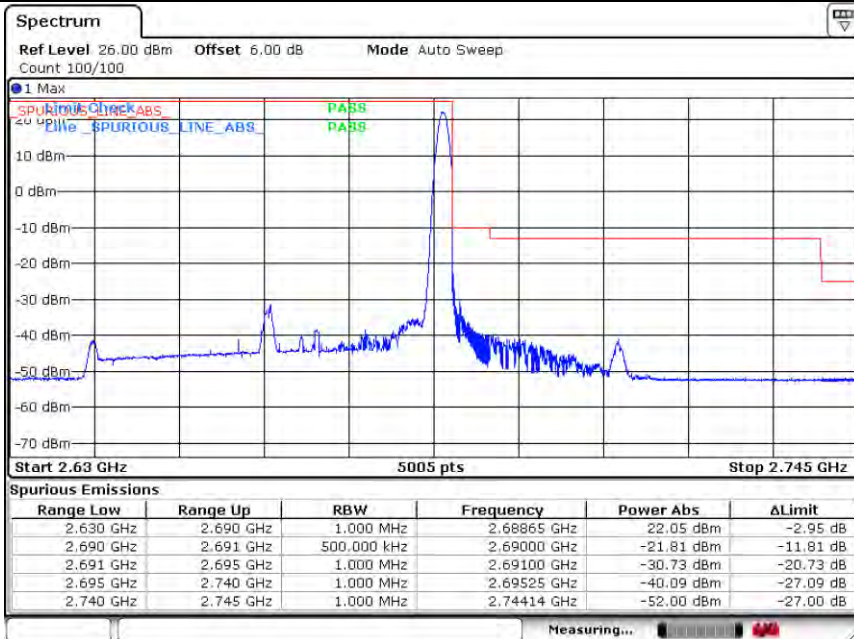
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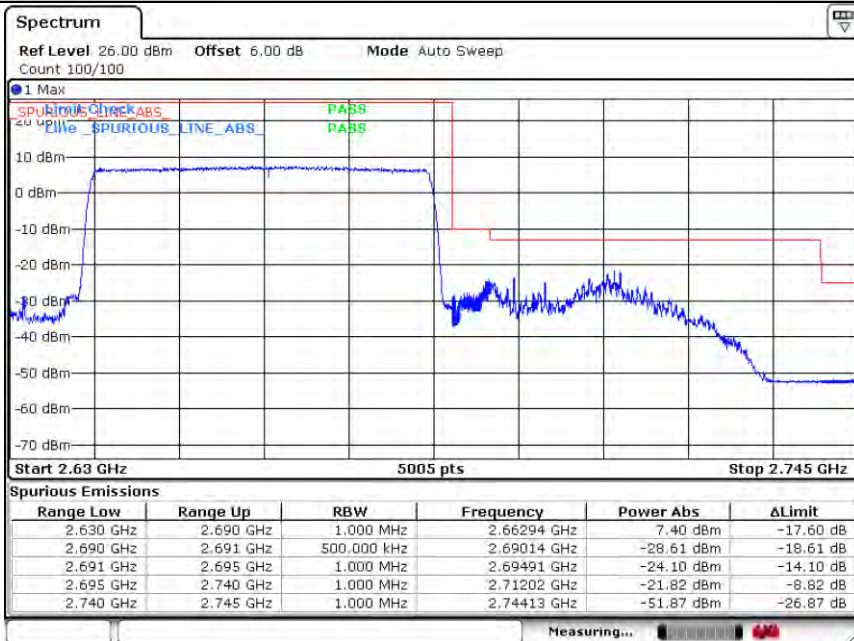


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Date: 11. JAN 2021 20:21:05

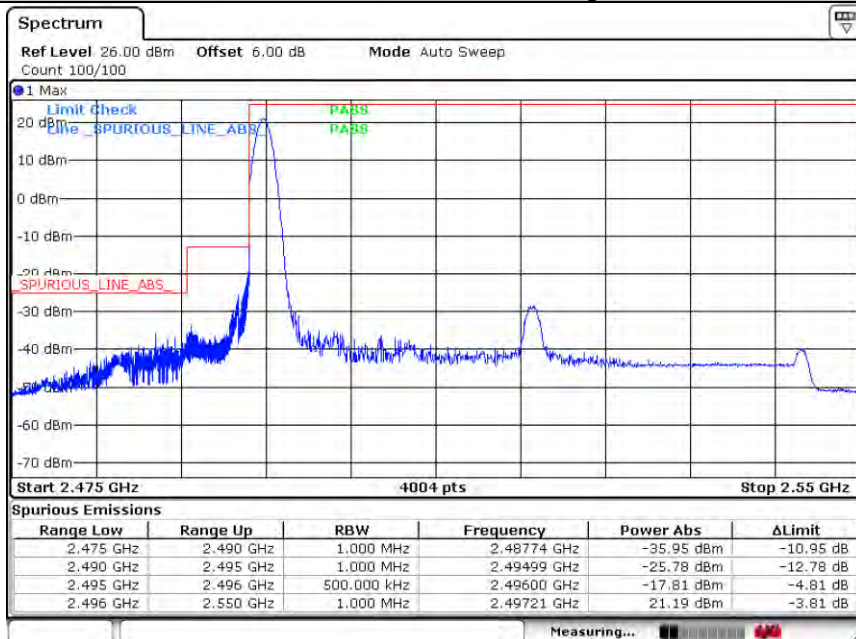
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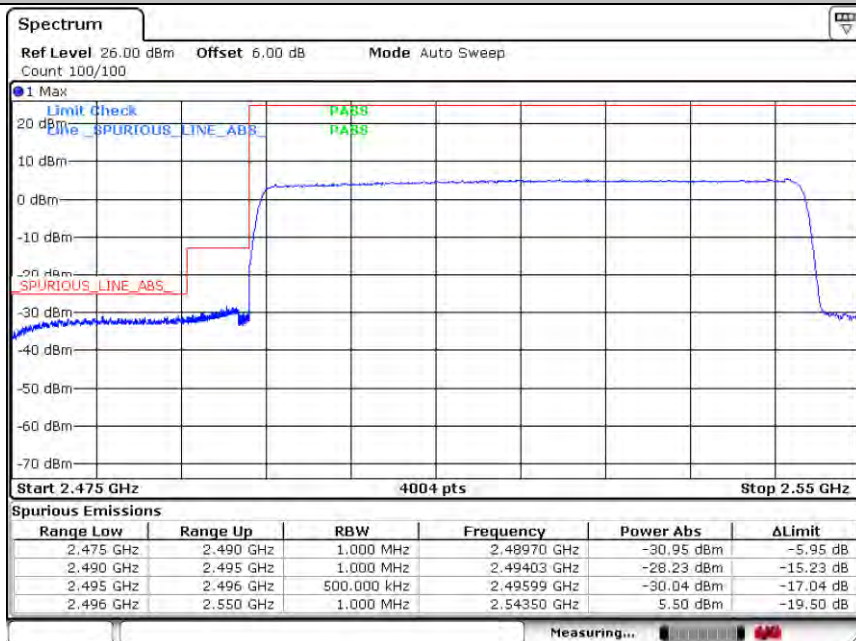


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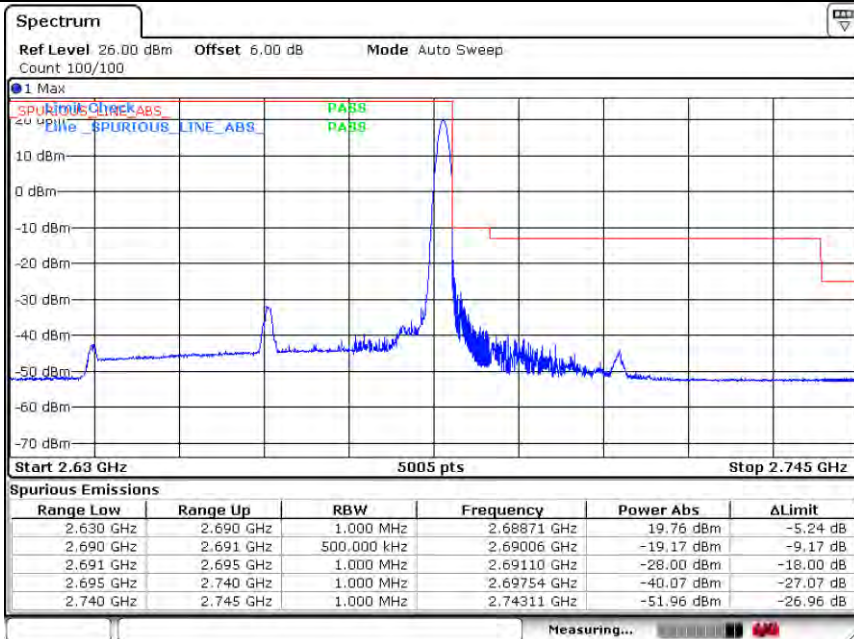
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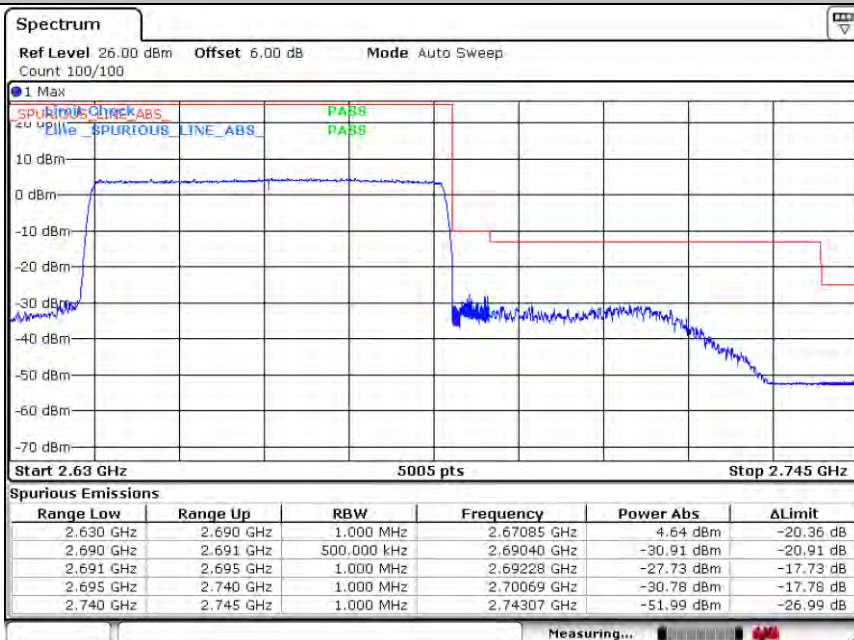


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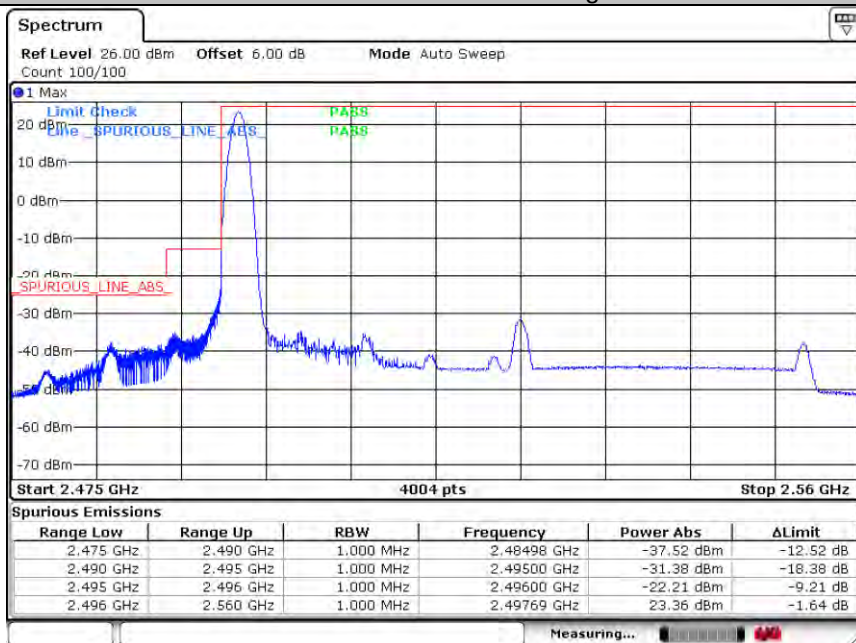
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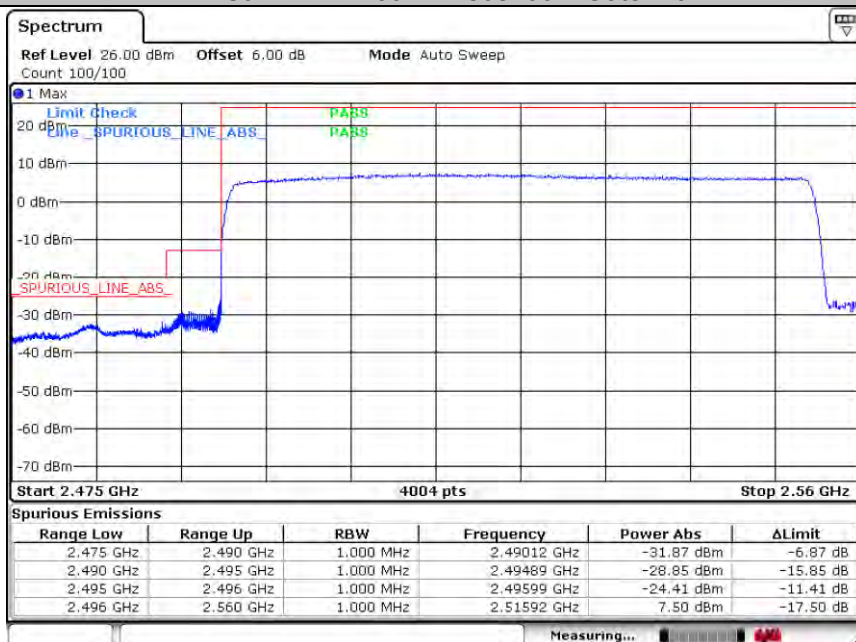


N41 30KHz TM1 60MHz 505200 Edge 1RB Left



Date: 18. JAN 2021 20:12:39

N41 30KHz TM1 60MHz 505200 Outer Full



Date: 18. JAN 2021 20:10:36



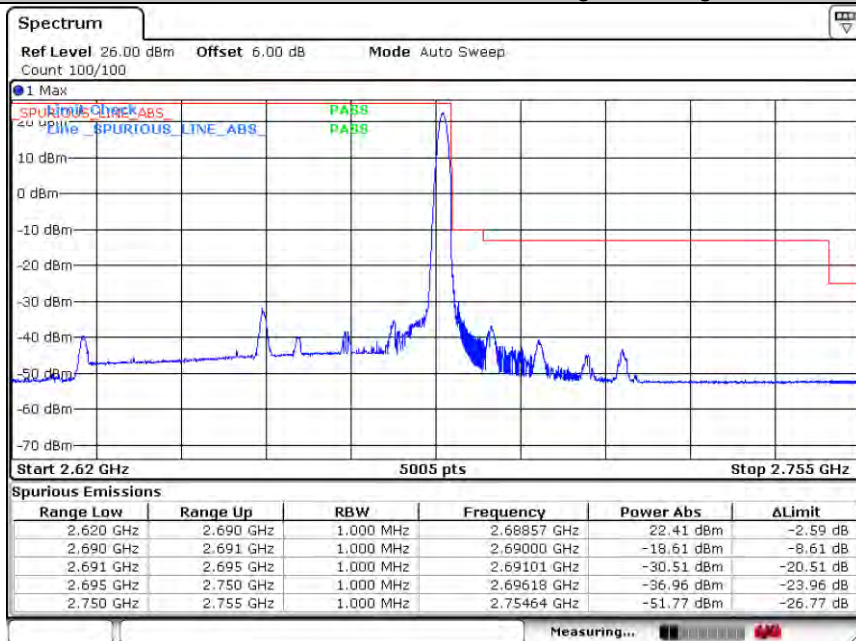
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Shenzhen Branch Inspection & Testing Services Laboratory

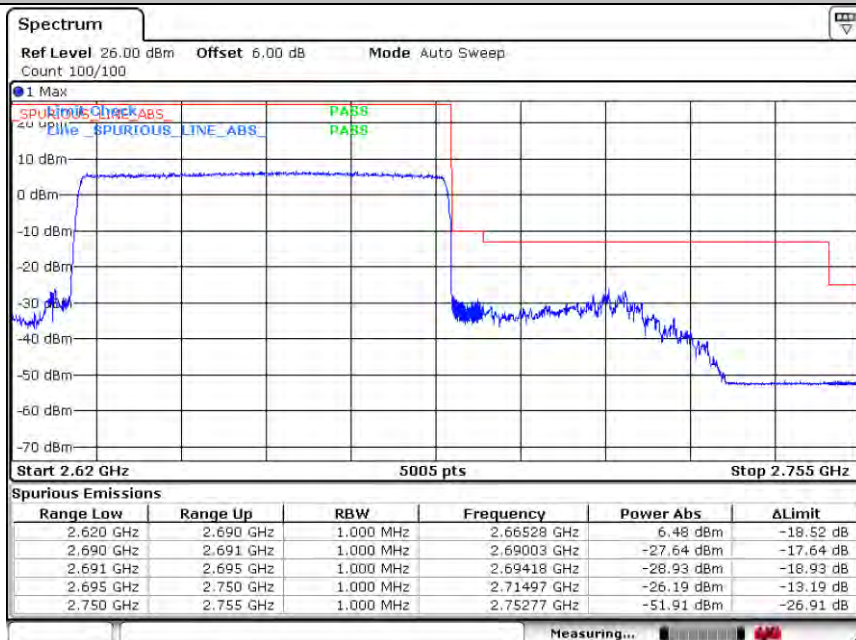
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

N41 30KHz TM1 60MHz 531996 Edge 1RB Right



Date: 11.JAN.2021 20:26:39

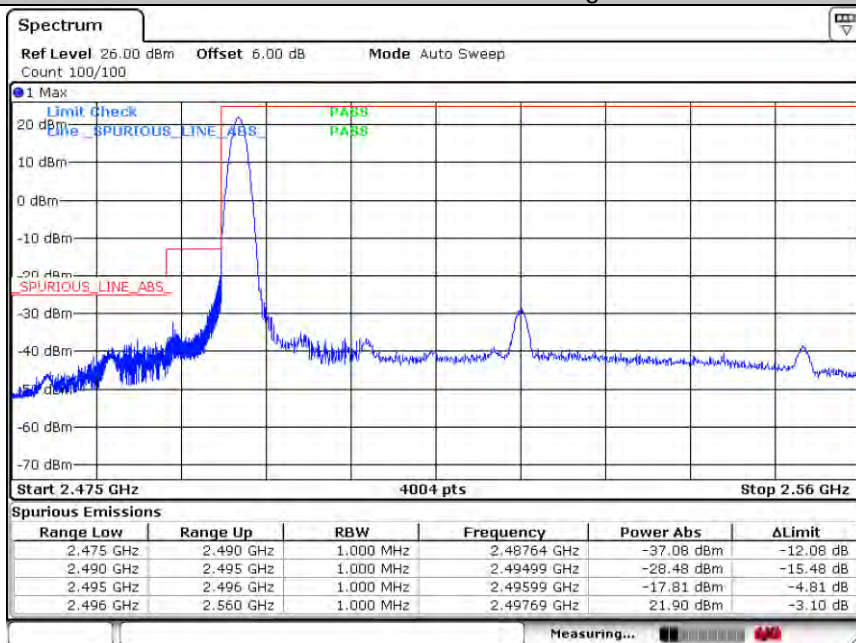
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Date: 11.JAN.2021 20:24:00

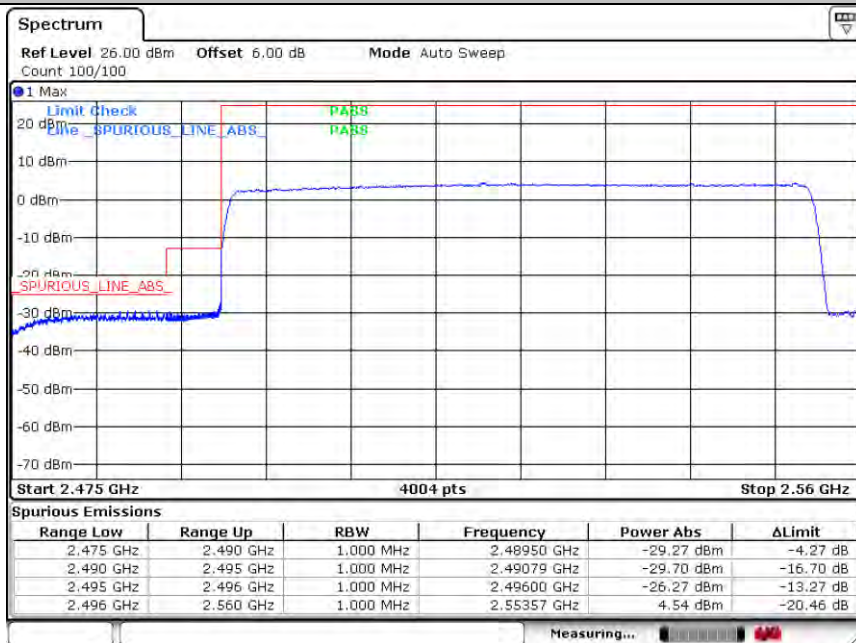


N41 30KHz TM6 60MHz 505200 Edge 1RB Left



Date: 18. JAN 2021 20:14:02

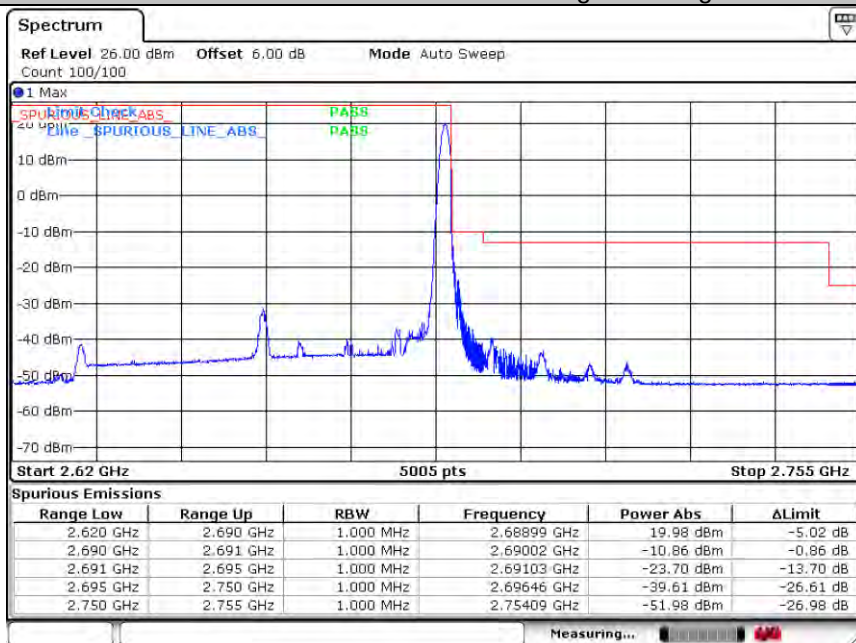
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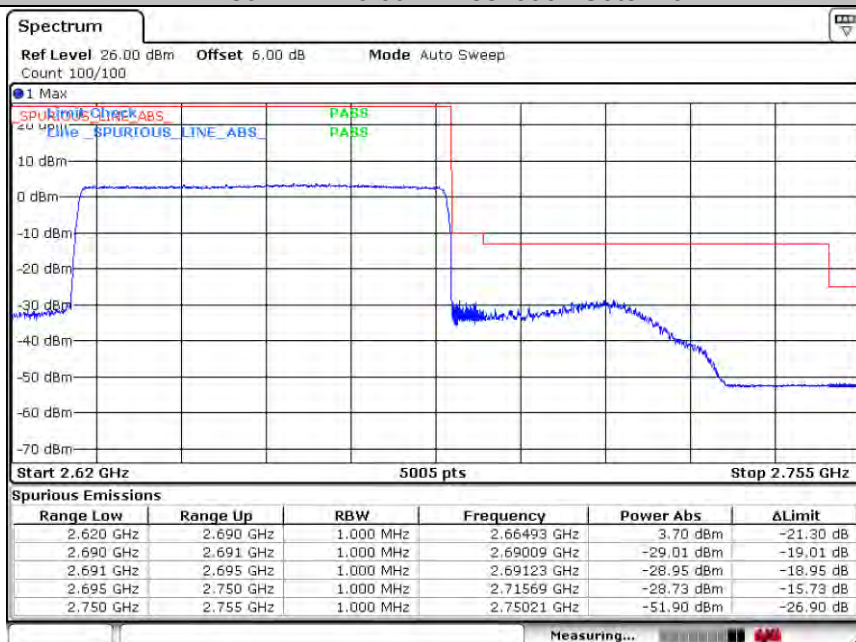


N41 30KHz TM6 60MHz 531996 Edge 1RB Right



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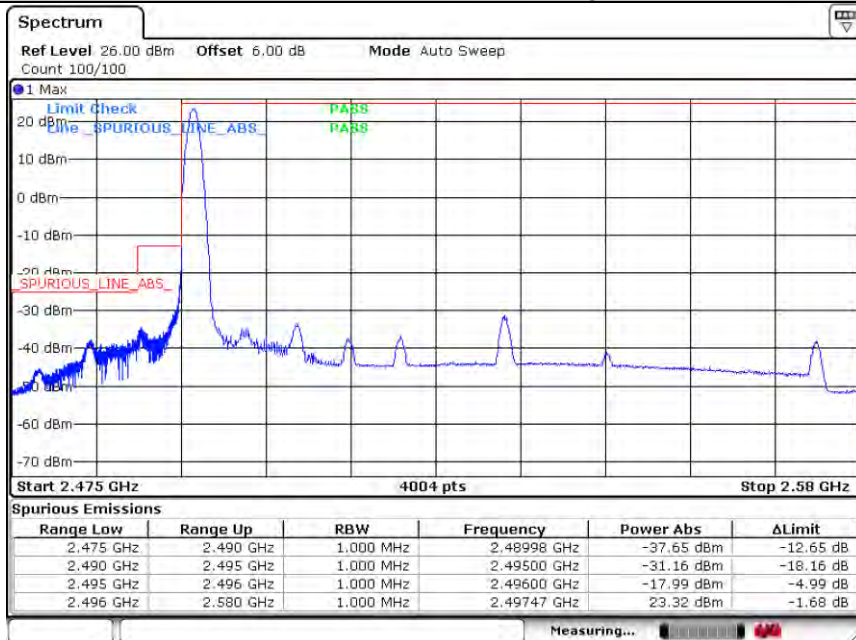
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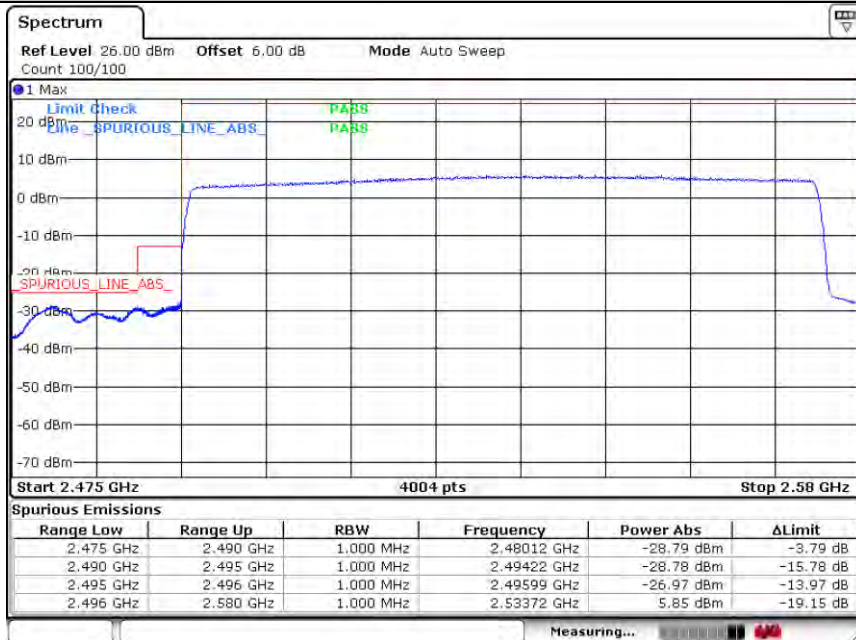


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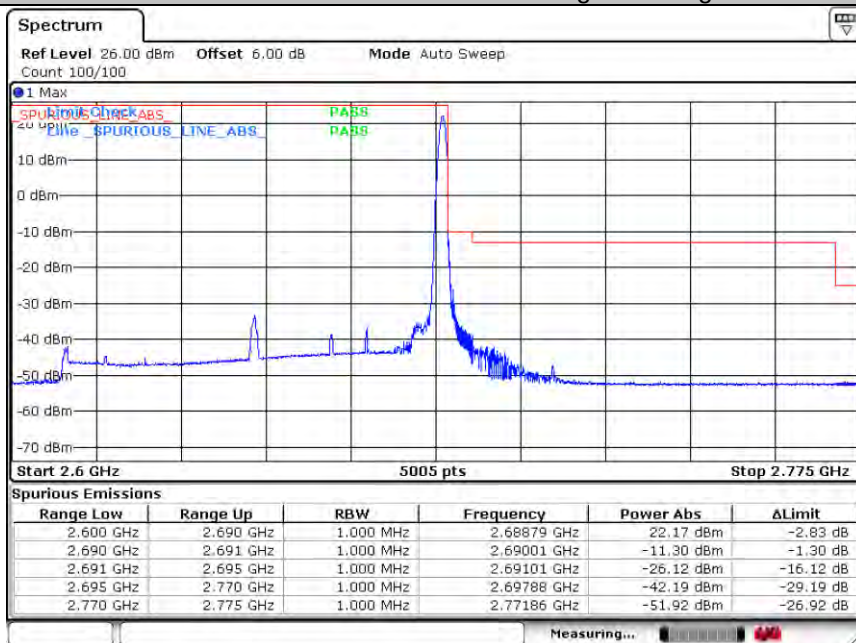
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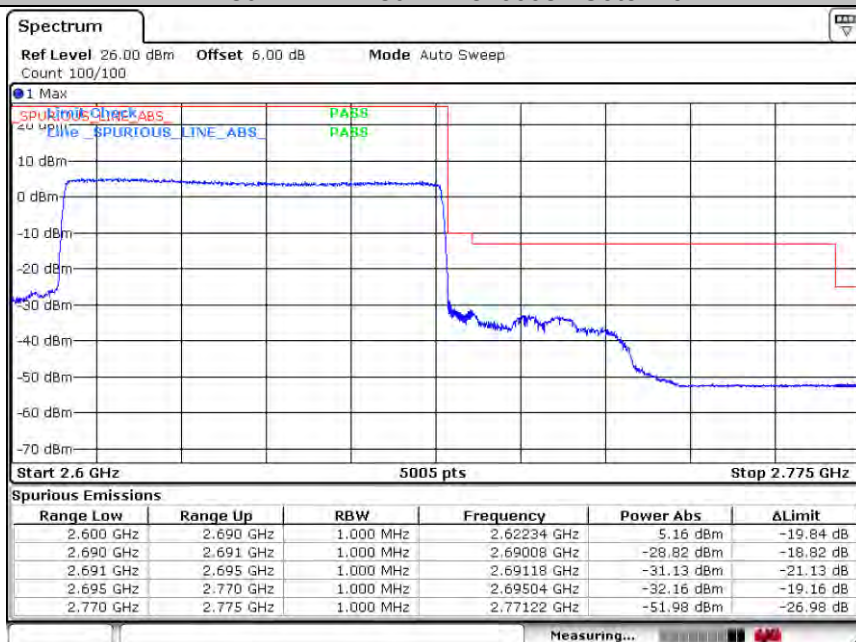


N41 30KHz TM1 80MHz 529998 Edge 1RB Right



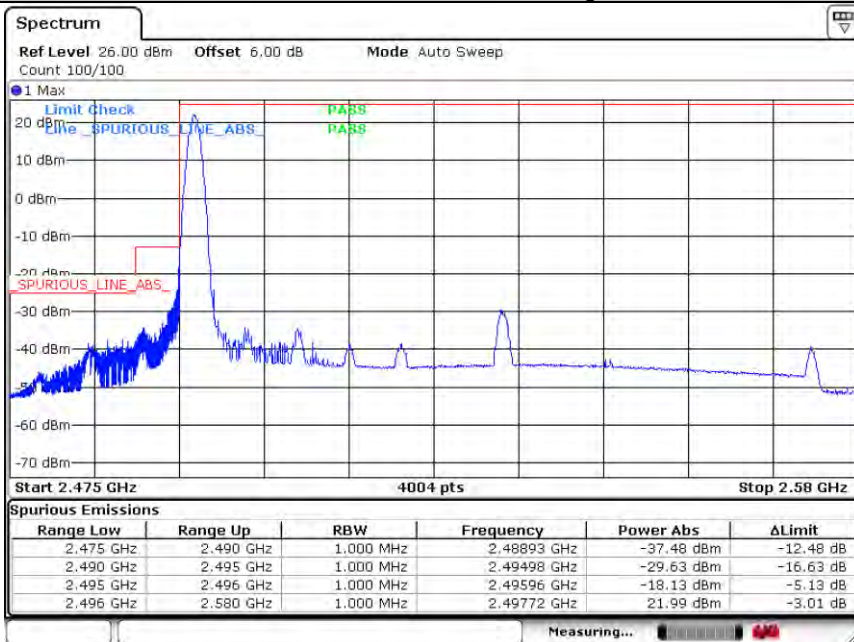
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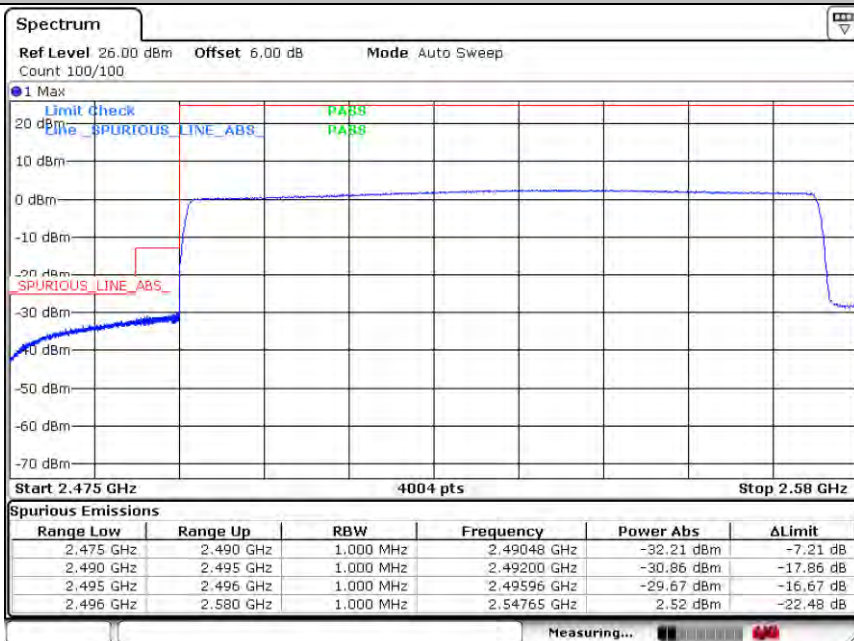
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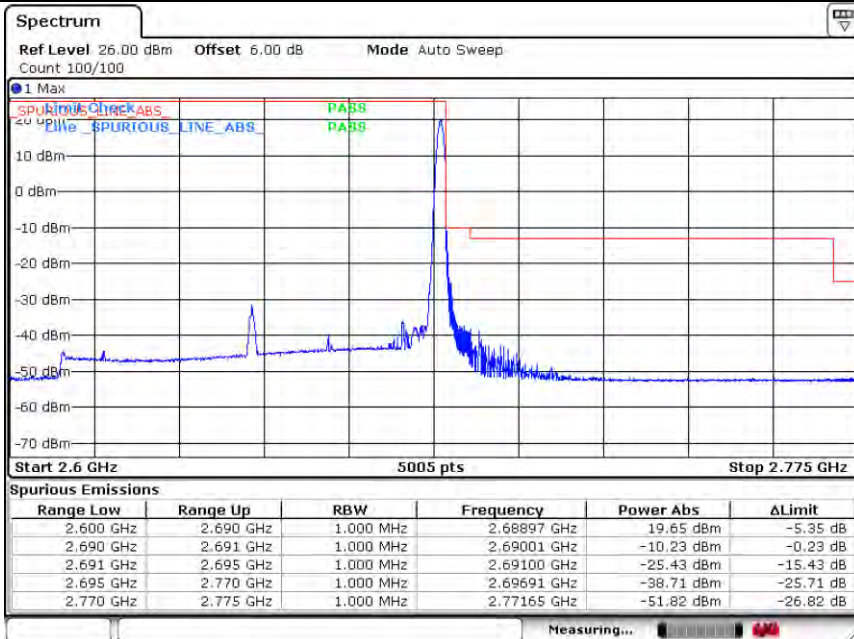
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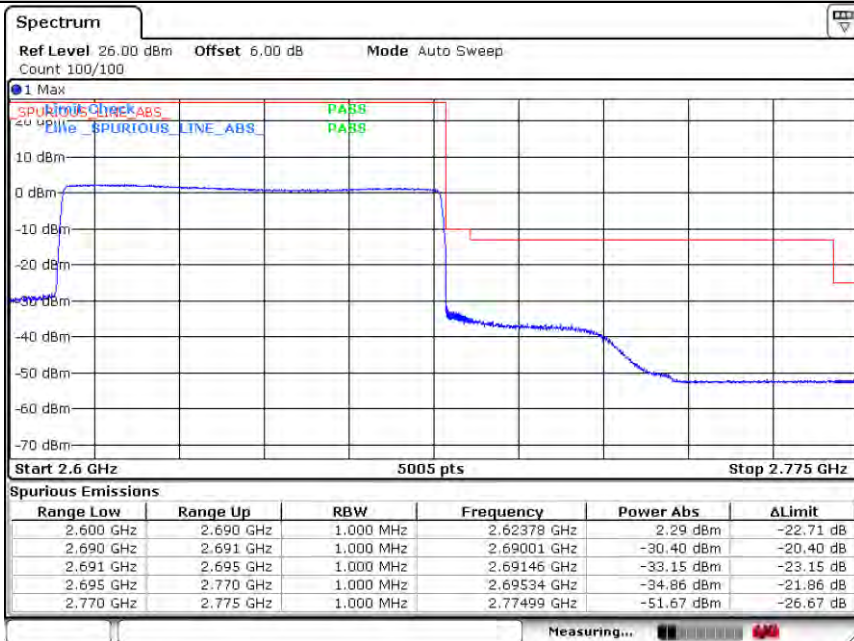


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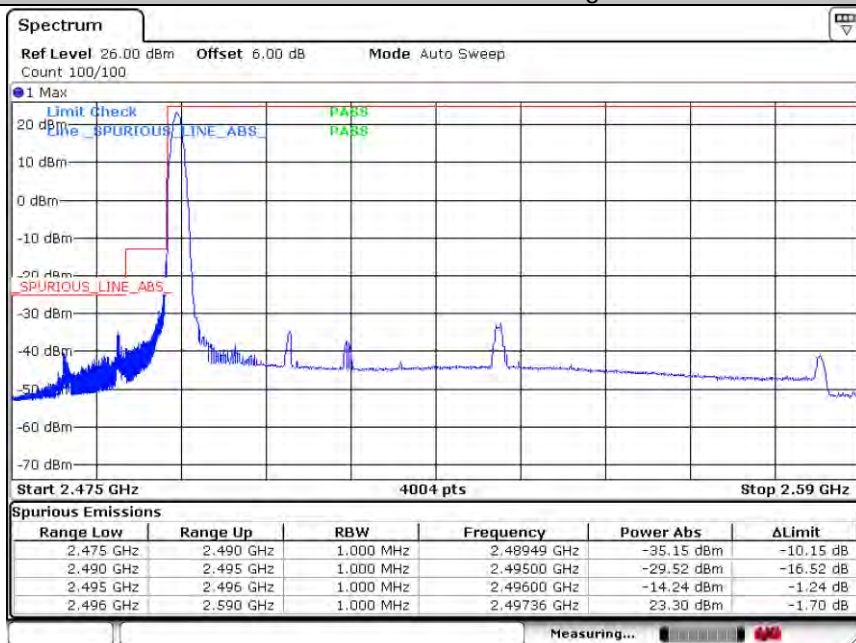
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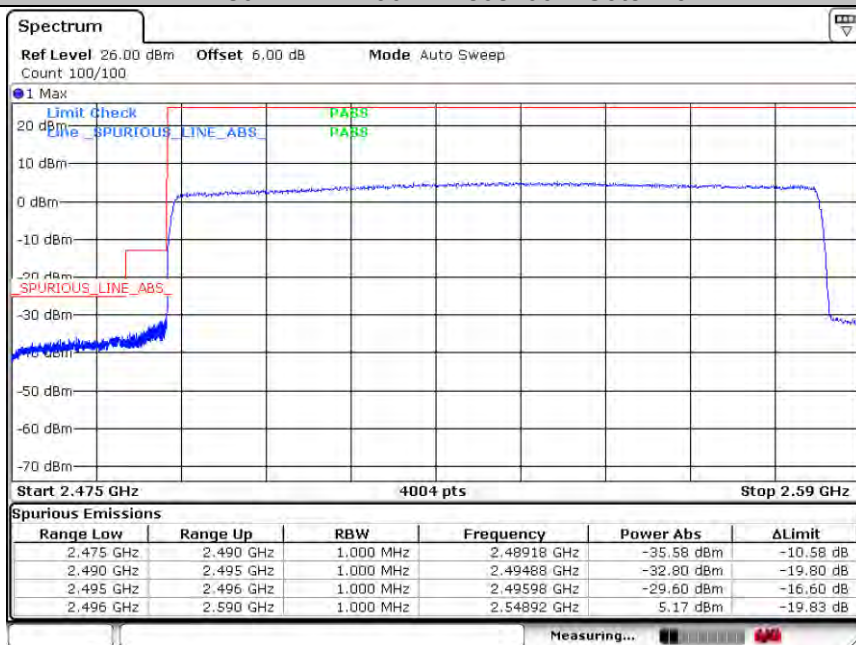
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N41 30KHz TM1 90MHz 508200 Edge 1RB Left



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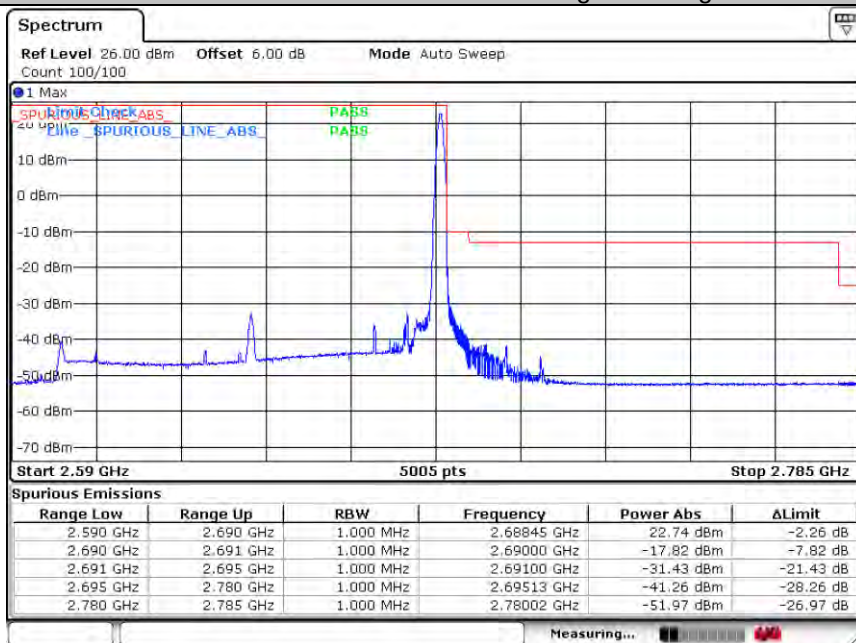
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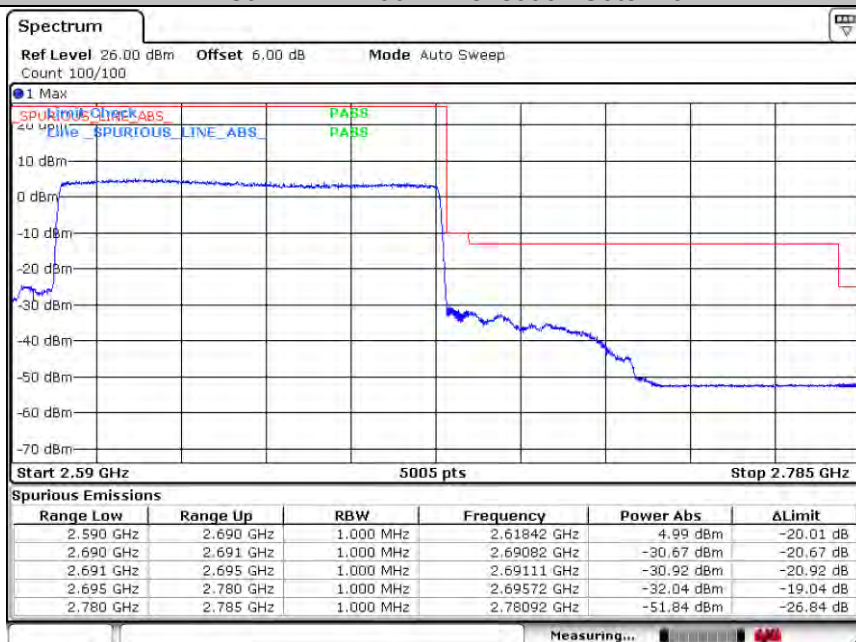


N41 30KHz TM1 90MHz 528996 Edge 1RB Right



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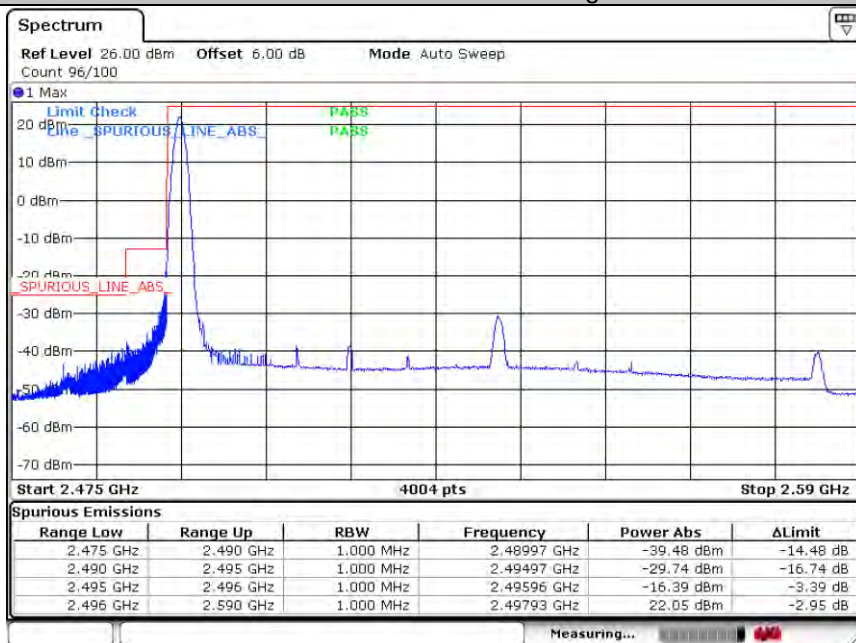
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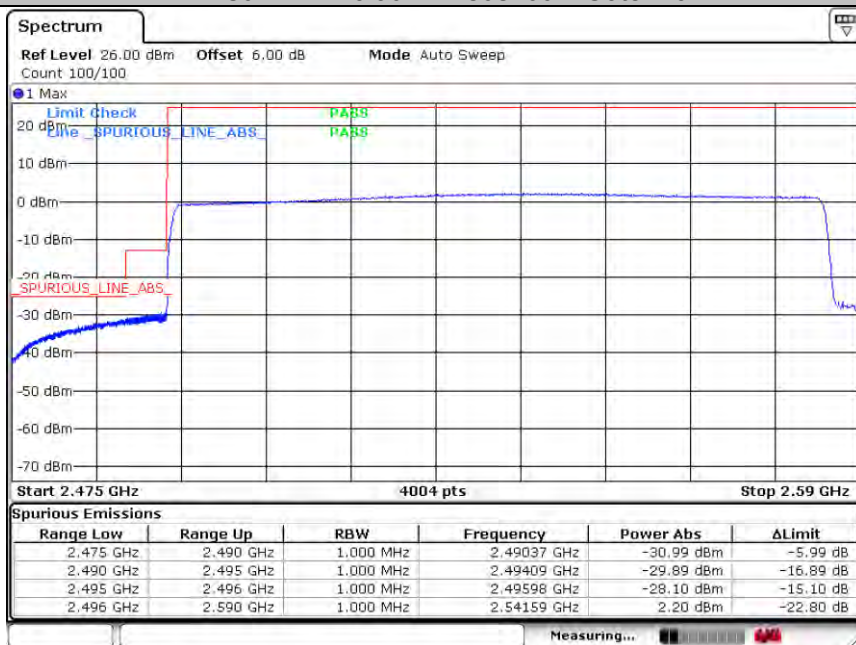


N41 30KHz TM6 90MHz 508200 Edge 1RB Left



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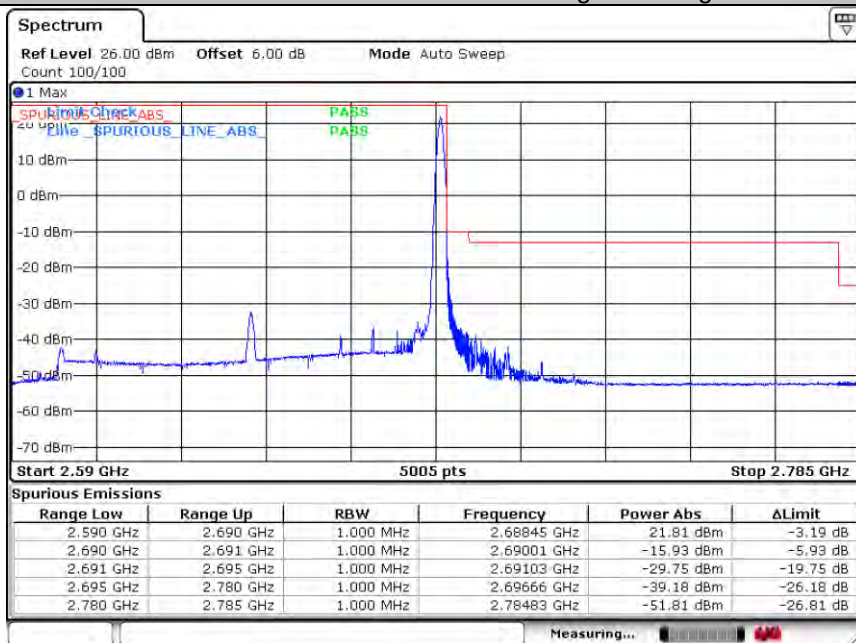
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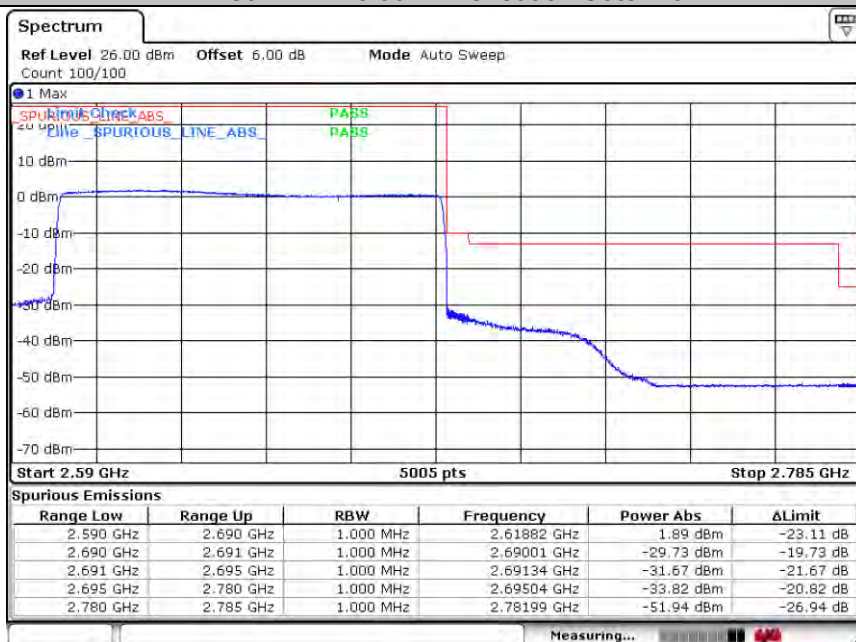


N41 30KHz TM6 90MHz 528996 Edge 1RB Right



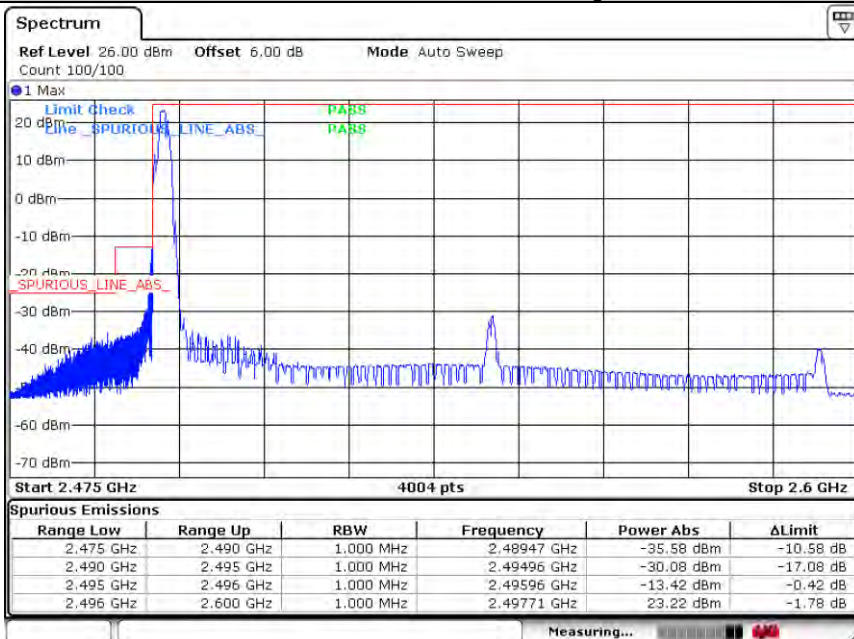
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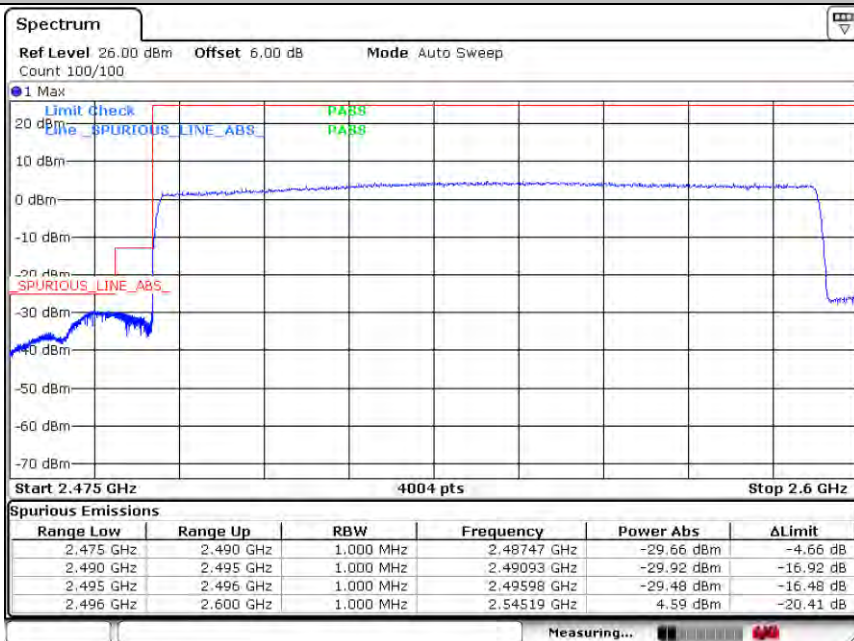
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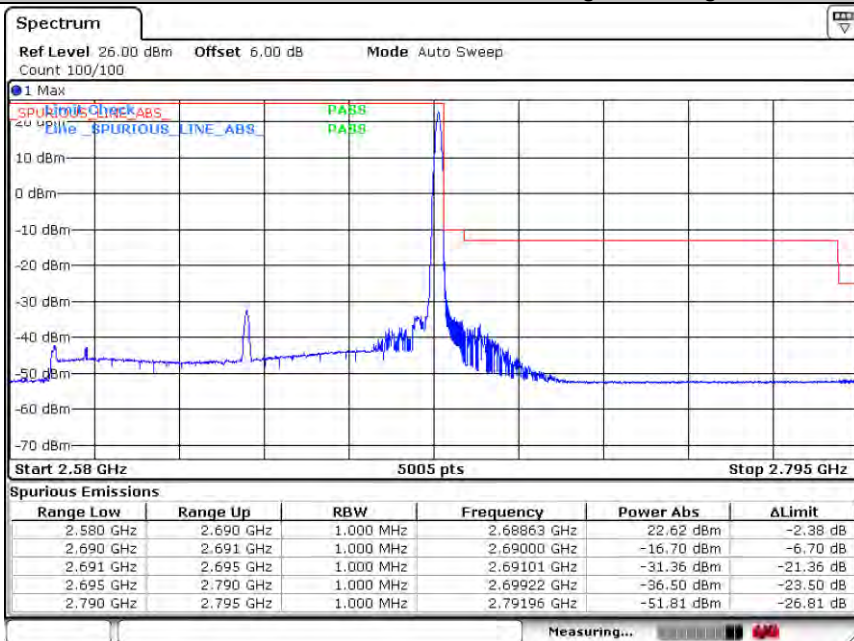
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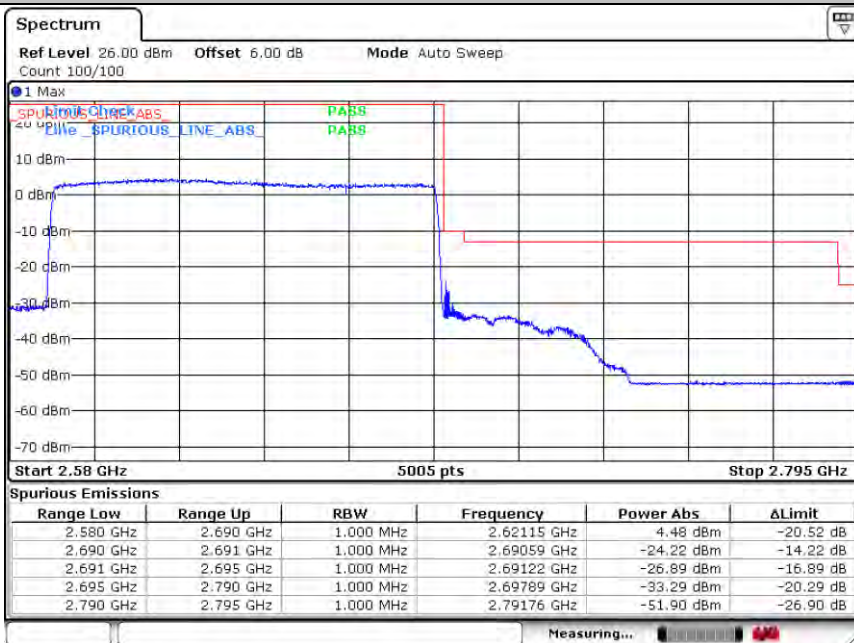


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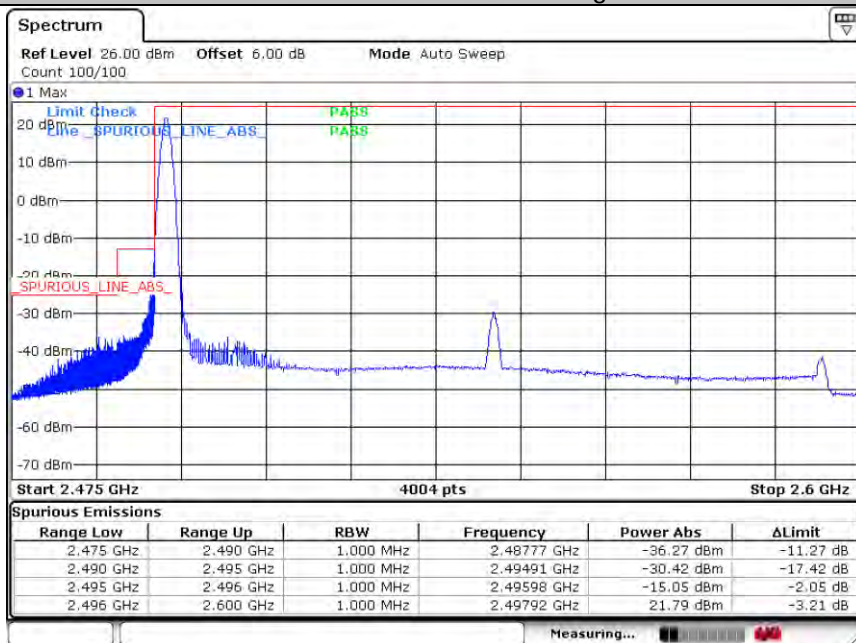
Date: 18. JAN 2021 19:22:21

N41 30KHz TM1 100MHz 528000 Outer Full



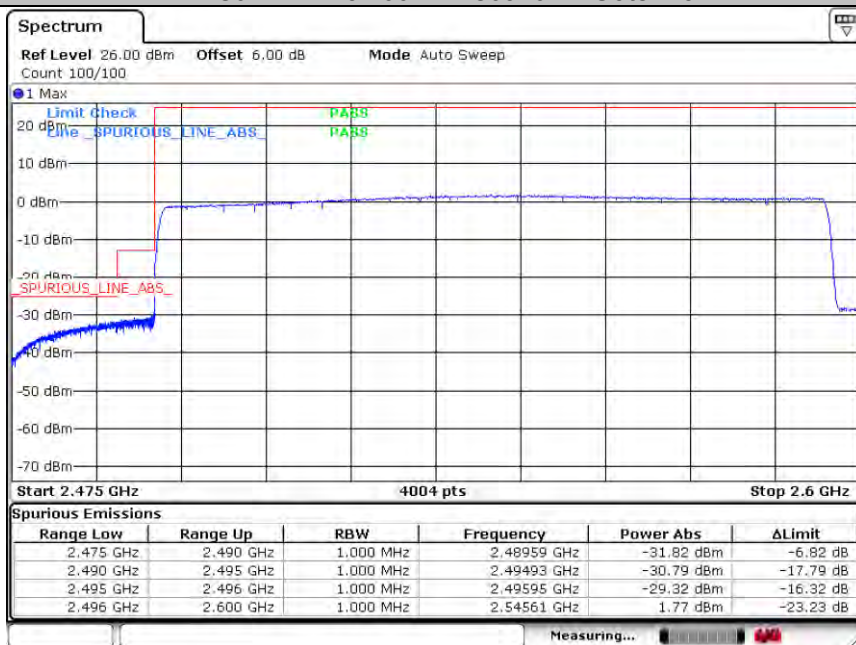
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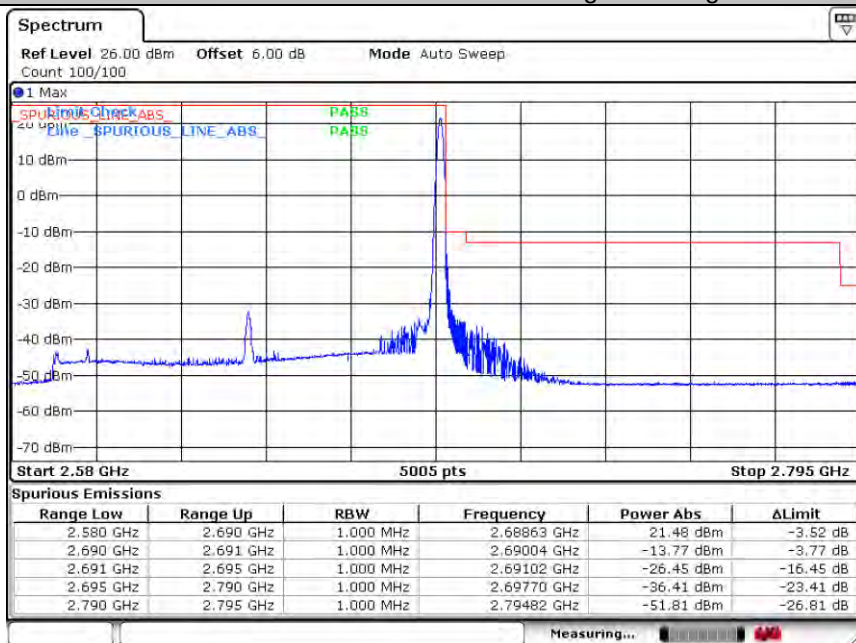
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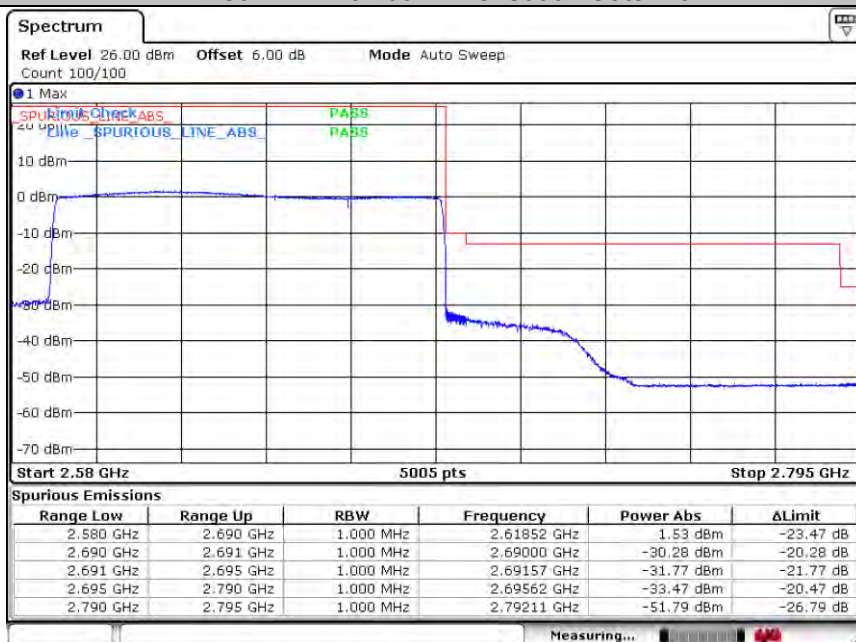


N41 30KHz TM6 100MHz 528000 Edge 1RB Right



Date: 18.JAN.2021 19:23:57

N41 30KHz TM6 100MHz 528000 Outer Full



Date: 18.JAN.2021 19:25:14

REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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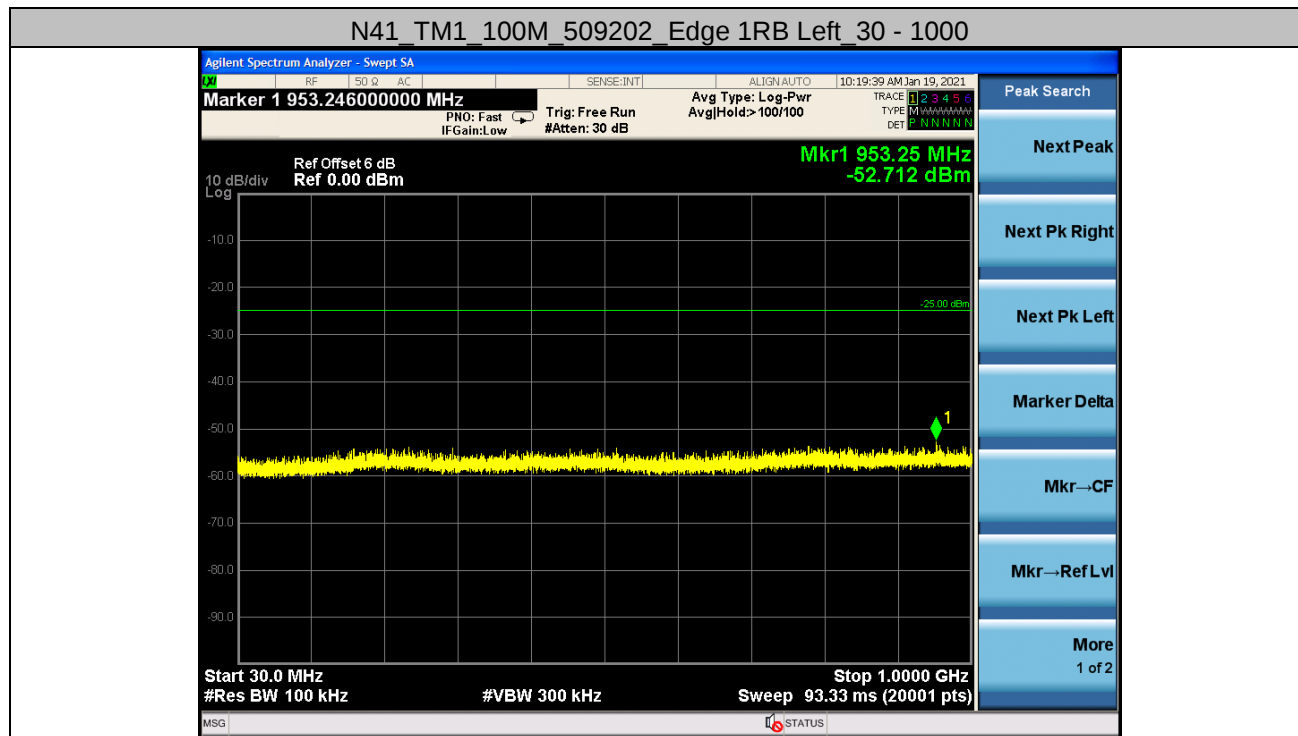
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6 Spurious Emission at Antenna Terminal

REMARK: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

6.1 Test Plots



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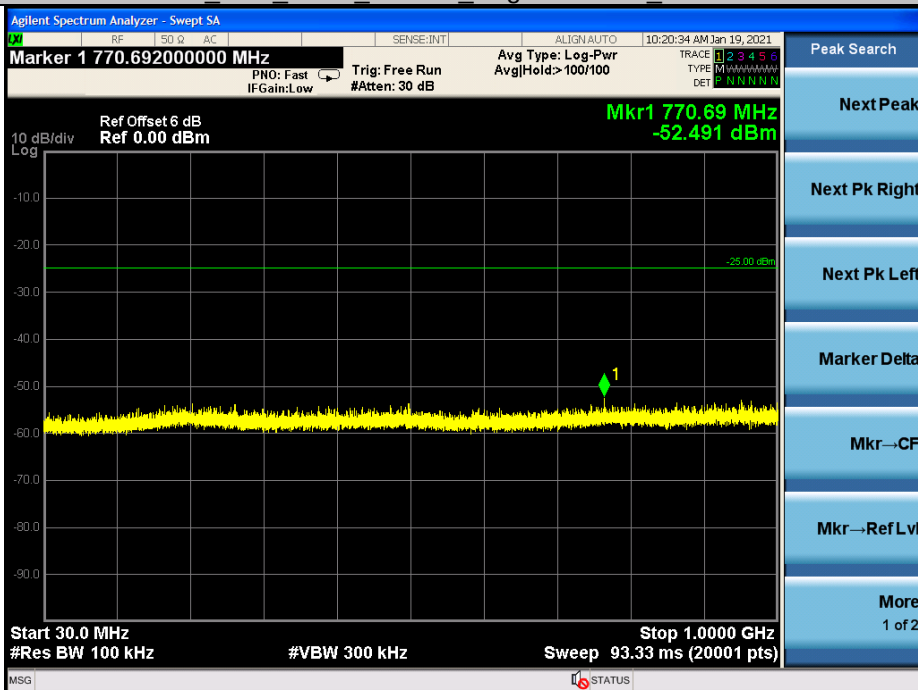
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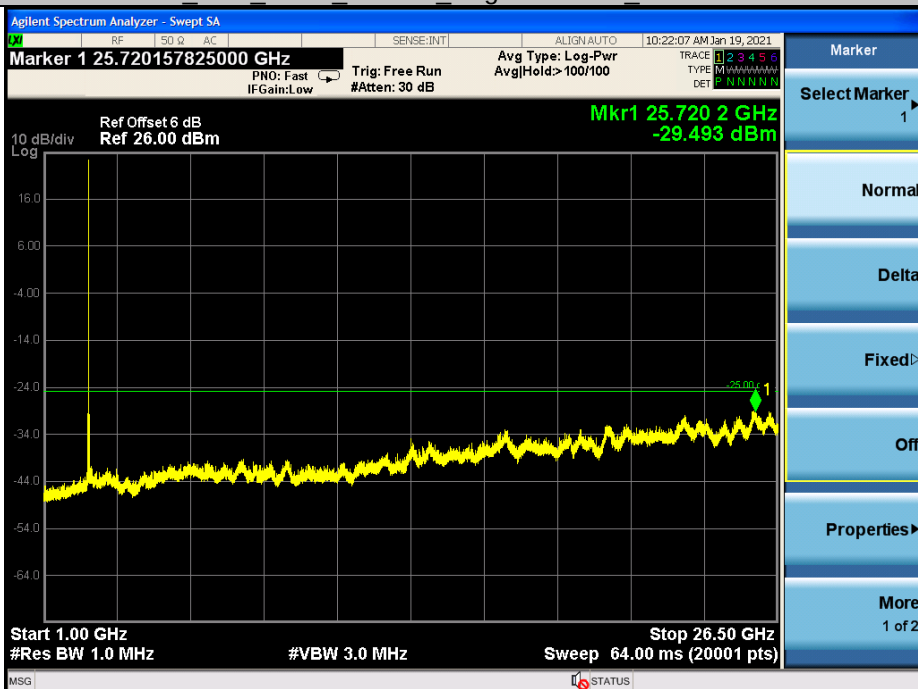
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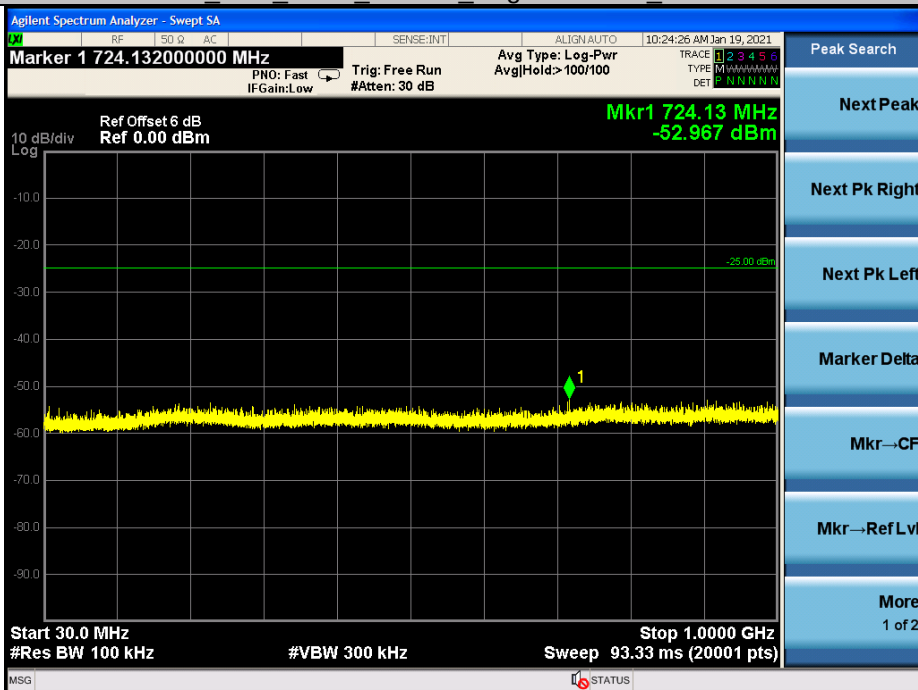
N41 TM1 100M 518598 Edge 1RB Left 30 - 1000



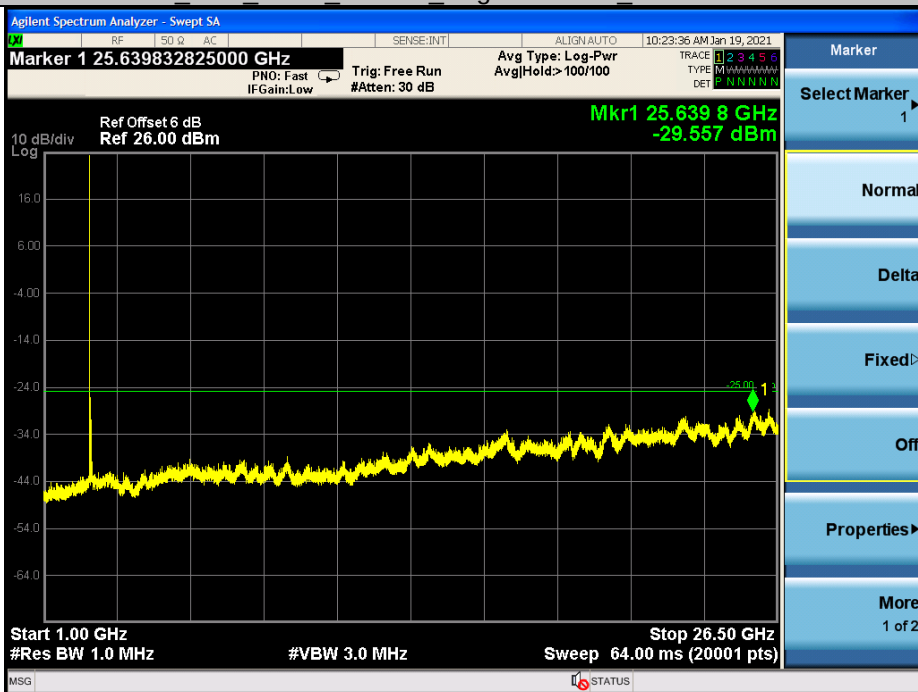
N41 TM1 100M 518598 Edge 1RB Left 1000 - 26500



N41 TM1 100M 528000 Edge 1RB Left 30 - 1000



N41 TM1 100M 528000 Edge 1RB Left 10000 - 26500



REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



7 Field Strength of Spurious Radiation

7.1 Test Band = N41(ant5)

7.1.1 Test Mode = 100MHz _TM1

7.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
39.2150	-73.59	-25.00	48.59	Vertical
86.7450	-68.06	-25.00	43.06	Vertical
743.1925	-79.99	-25.00	54.99	Vertical
1644.1322	-61.68	-25.00	36.68	Vertical
10957.8979	-49.56	-25.00	24.56	Vertical
17861.2431	-46.21	-25.00	21.21	Vertical
39.9425	-74.39	-25.00	49.39	Horizontal
205.0850	-77.70	-25.00	52.70	Horizontal
543.8575	-82.37	-25.00	57.37	Horizontal
1822.3411	-57.74	-25.00	32.74	Horizontal
5813.3907	-53.34	-25.00	28.34	Horizontal
17399.9700	-47.15	-25.00	22.15	Horizontal

7.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
38.7300	-72.71	-25.00	47.71	Vertical
83.8350	-69.67	-25.00	44.67	Vertical
729.1275	-80.47	-25.00	55.47	Vertical
1460.7230	-60.94	-25.00	35.94	Vertical
6706.6853	-52.59	-25.00	37.59	Vertical
17854.4927	-46.86	-25.00	21.86	Vertical
38.7300	-73.87	-25.00	48.87	Horizontal
204.8425	-78.13	-25.00	53.13	Horizontal
767.6850	-79.98	-25.00	54.98	Horizontal
1807.8404	-59.07	-25.00	34.07	Horizontal
5841.1421	-53.10	-25.00	28.10	Horizontal
17399.9700	-46.53	-25.00	21.53	Horizontal



7.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
38.9725	-75.31	-25.00	50.31	Vertical
205.3275	-77.32	-25.00	52.32	Vertical
763.3200	-80.05	-25.00	55.05	Vertical
1772.3386	-58.11	-25.00	33.11	Vertical
5811.8906	-53.46	-25.00	28.46	Vertical
17393.2197	-46.58	-25.00	21.58	Vertical
38.2450	-75.49	-25.00	50.49	Horizontal
204.6000	-78.81	-25.00	53.81	Horizontal
736.8875	-80.41	-25.00	55.41	Horizontal
1784.7392	-58.55	-25.00	33.55	Horizontal
5843.3922	-53.26	-25.00	28.26	Horizontal
17399.2200	-46.24	-25.00	21.24	Horizontal

REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N41	30KHz	100MHz	TM1	509202	Outer Full	VL	NT	-10.31	-0.00405	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	NT	-16.55	-0.00650	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VH	NT	22.30	0.00876	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VL	NT	15.22	0.00587	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	NT	-24.66	-0.00951	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VH	NT	-11.90	-0.00459	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VL	NT	-15.44	-0.00585	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	NT	-11.42	-0.00433	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VH	NT	21.83	0.00827	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VL	NT	-21.37	-0.00839	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	NT	-18.74	-0.00736	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VH	NT	13.12	0.00515	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VL	NT	20.42	0.00788	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	NT	-5.74	-0.00221	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VH	NT	-3.99	-0.00154	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VL	NT	-2.91	-0.00110	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	NT	-15.96	-0.00605	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VH	NT	-16.45	-0.00623	±2.5	PASS

8.2 Frequency Error VS. Temperature

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	-30	-14.30	-0.00562	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	-20	-5.07	-0.00199	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	-10	11.23	0.00441	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	0	16.93	0.00665	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	10	15.51	0.00609	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	20	-8.54	-0.00335	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	30	-12.67	-0.00498	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	40	-22.33	-0.00877	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	50	17.09	0.00671	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-30	12.93	0.00499	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-20	-13.11	-0.00506	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-10	4.91	0.00189	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	0	-15.62	-0.00602	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	10	20.21	0.00779	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	20	-13.63	-0.00526	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	30	9.00	0.00347	±2.5	PASS



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N41	30KHz	100MHz	TM1	518598	Outer Full	VN	40	-12.11	-0.00467	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	50	6.39	0.00246	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-30	-14.74	-0.00558	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-20	-14.61	-0.00553	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-10	-10.55	-0.00400	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	0	12.46	0.00472	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	10	6.27	0.00238	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	20	13.43	0.00509	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	30	-12.53	-0.00475	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	40	-13.16	-0.00498	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	50	17.04	0.00645	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	-30	13.08	0.00514	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	-20	-14.63	-0.00575	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	-10	21.98	0.00863	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	0	-12.59	-0.00494	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	10	-14.34	-0.00563	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	20	7.52	0.00295	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	30	14.10	0.00554	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	40	4.06	0.00159	±2.5	PASS
N41	30KHz	100MHz	TM6	509202	Outer Full	VN	50	-15.70	-0.00617	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	-30	9.33	0.00360	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	-20	-20.22	-0.00780	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	-10	-15.83	-0.00610	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	0	12.66	0.00488	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	10	-12.56	-0.00484	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	20	-9.95	-0.00384	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	30	-7.40	-0.00285	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	40	13.26	0.00511	±2.5	PASS
N41	30KHz	100MHz	TM6	518598	Outer Full	VN	50	-16.70	-0.00644	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	-30	8.62	0.00327	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	-20	14.74	0.00558	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	-10	8.66	0.00328	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	0	-12.75	-0.00483	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	10	-17.55	-0.00665	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	20	14.40	0.00545	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	30	-9.84	-0.00373	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	40	22.14	0.00839	±2.5	PASS
N41	30KHz	100MHz	TM6	528000	Outer Full	VN	50	-7.20	-0.00273	±2.5	PASS

REMARK:

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The End



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