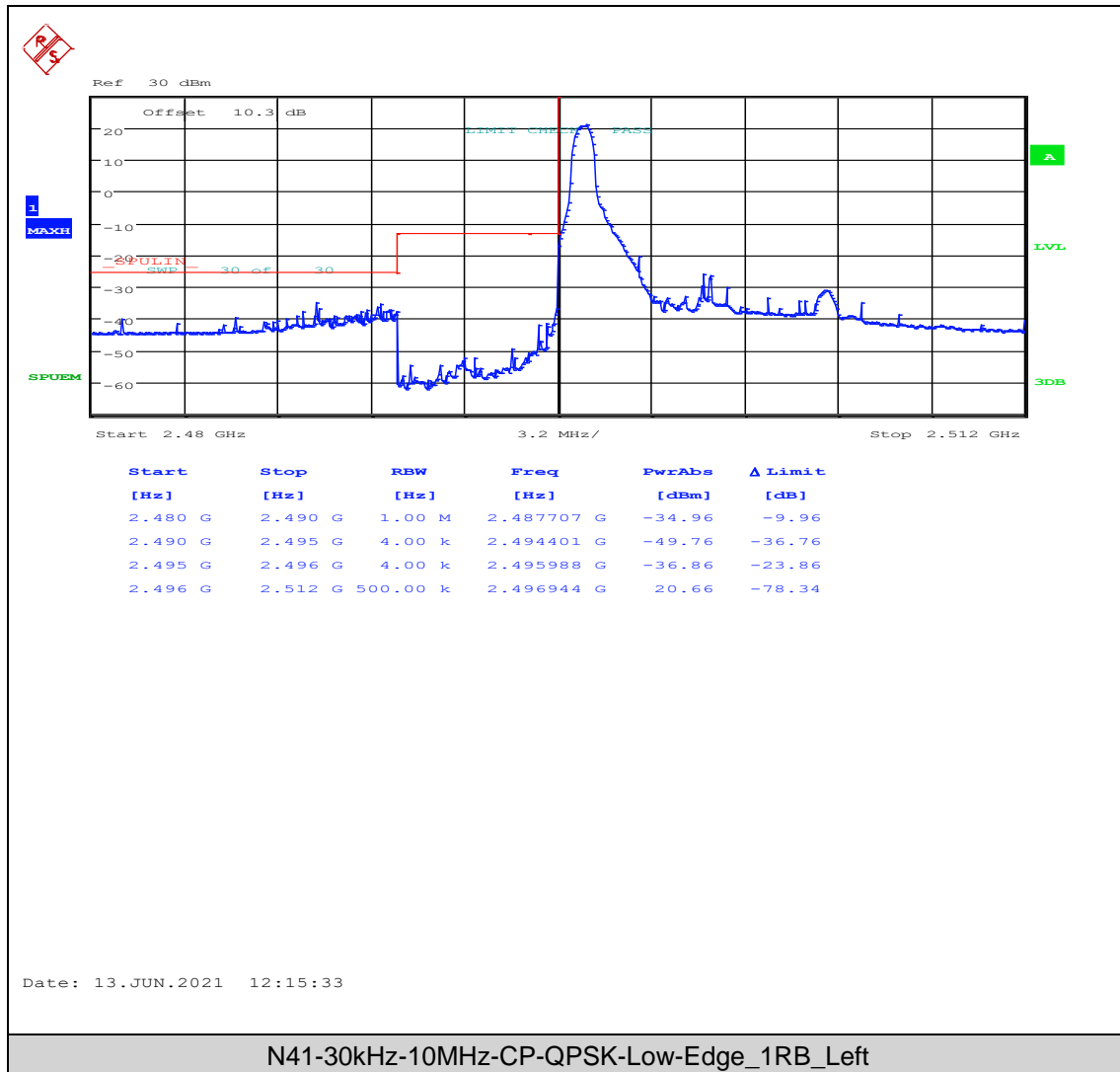
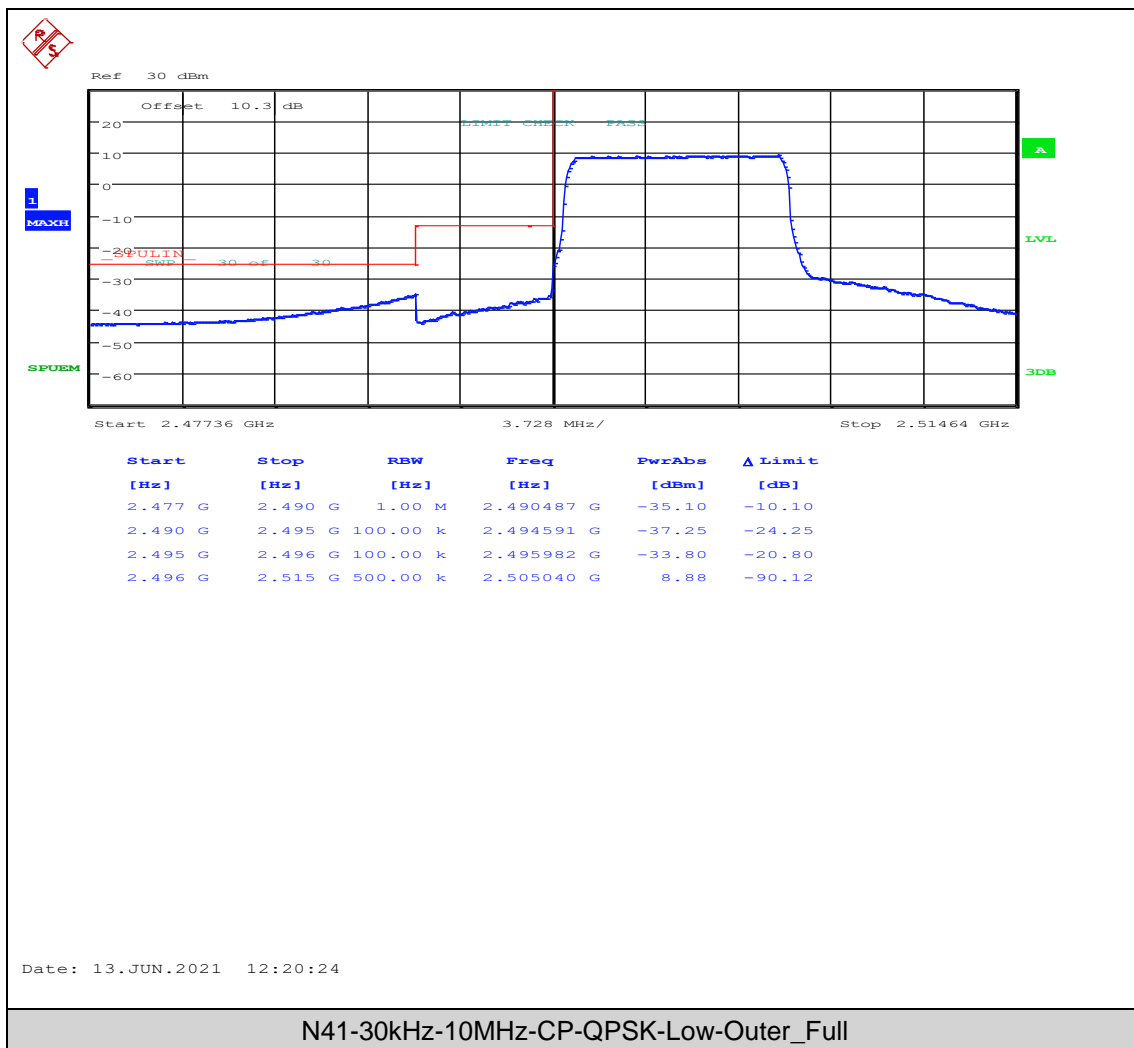
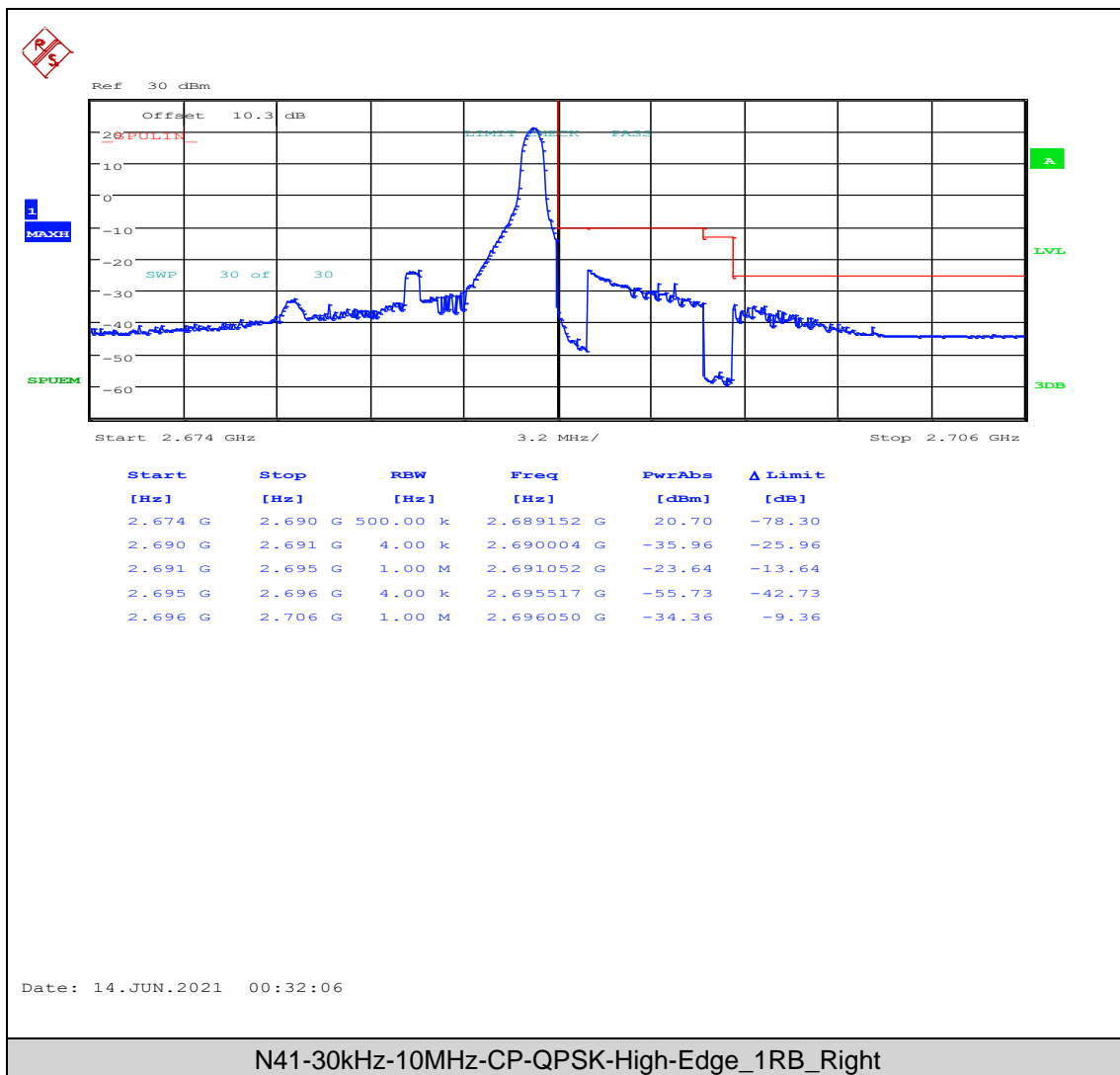
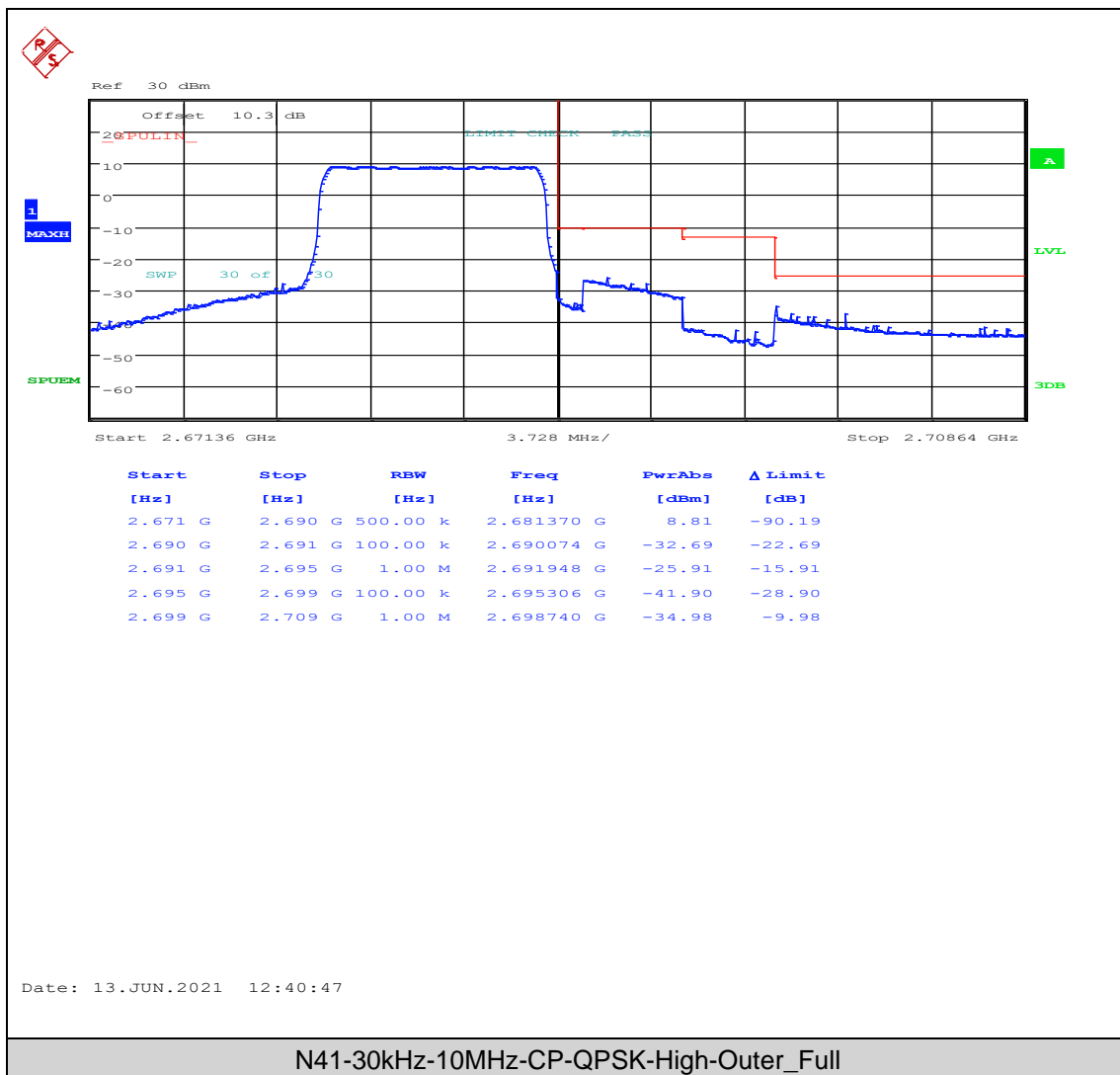


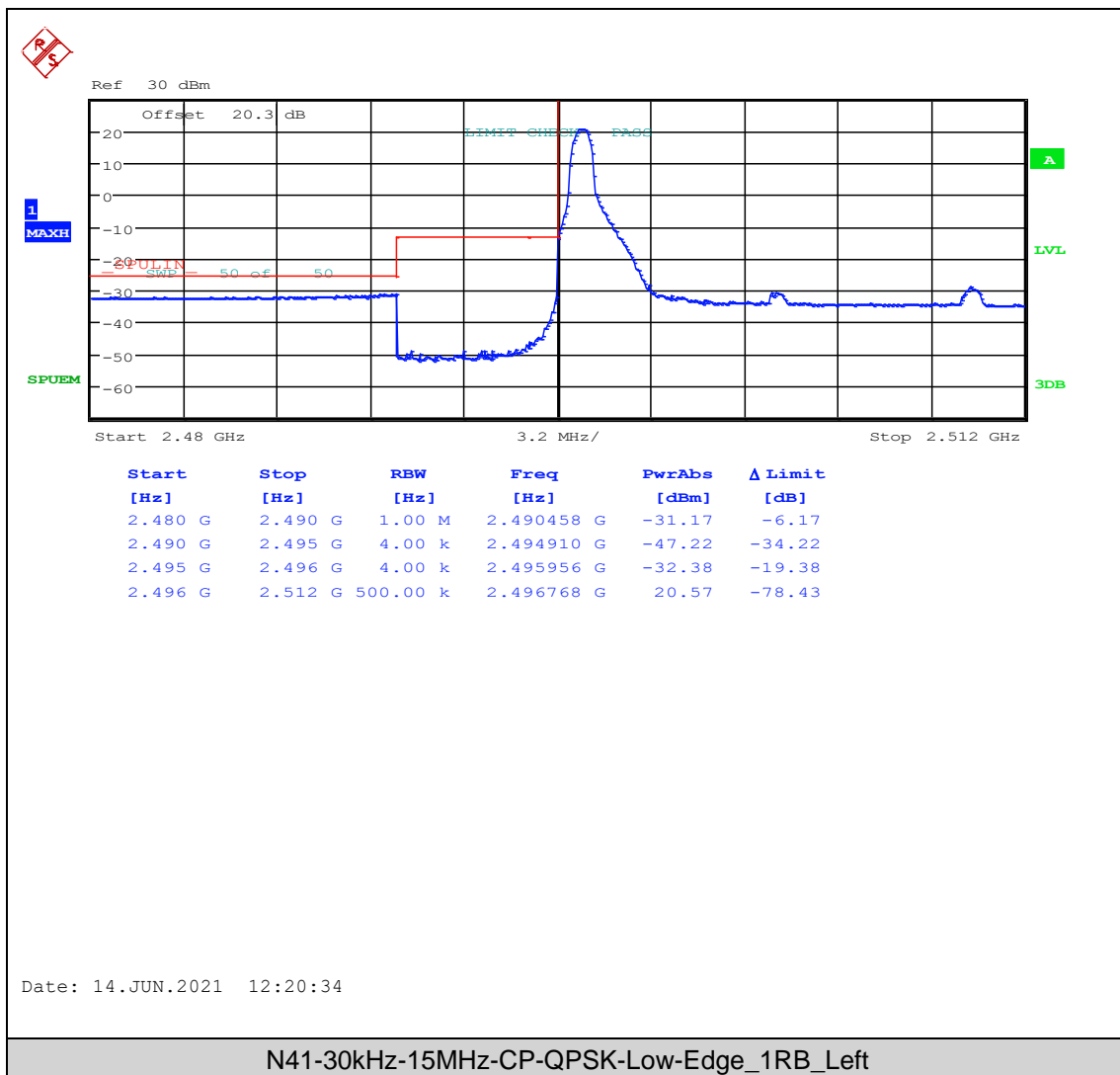
## Test Graphs ANT8

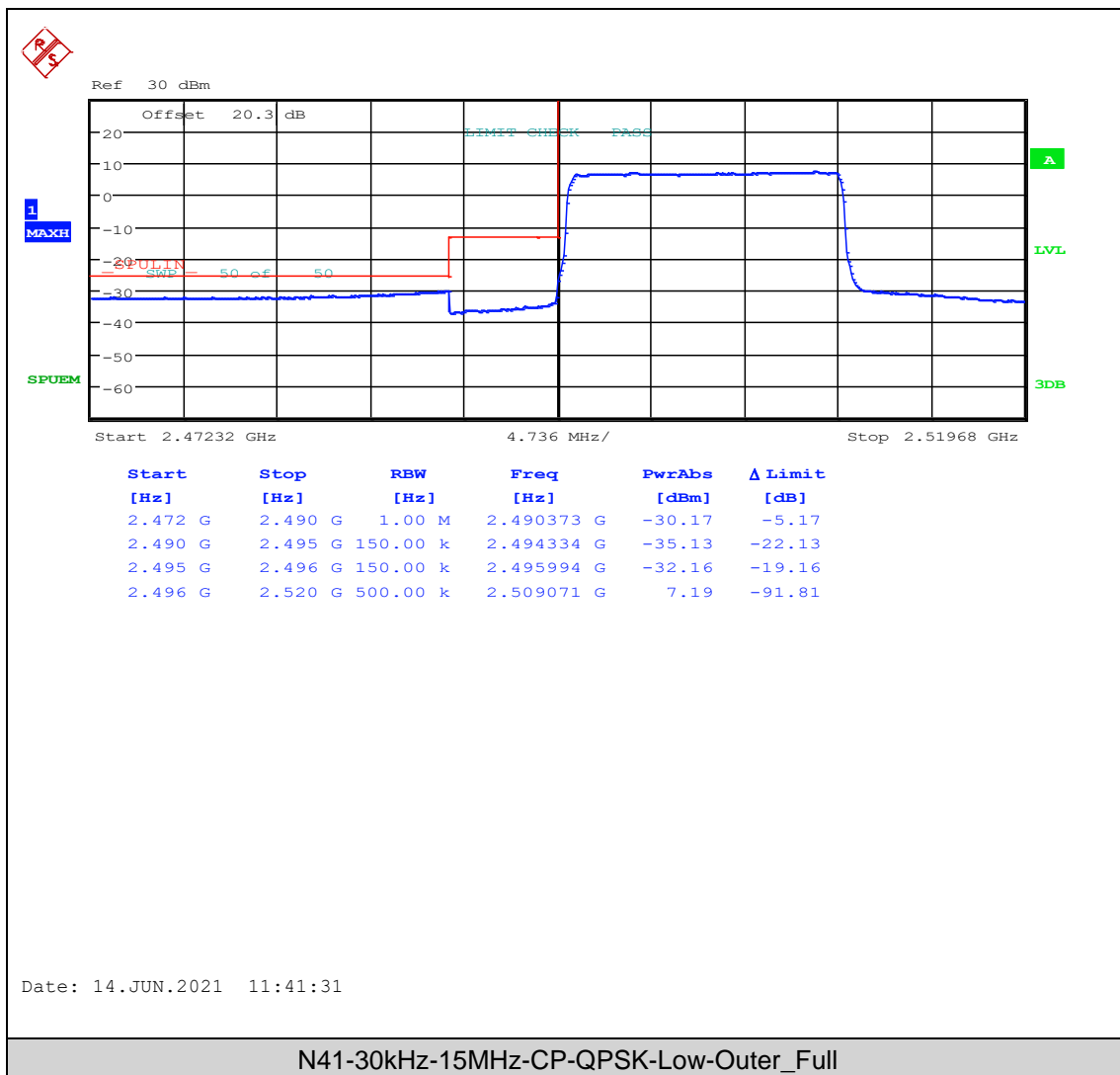


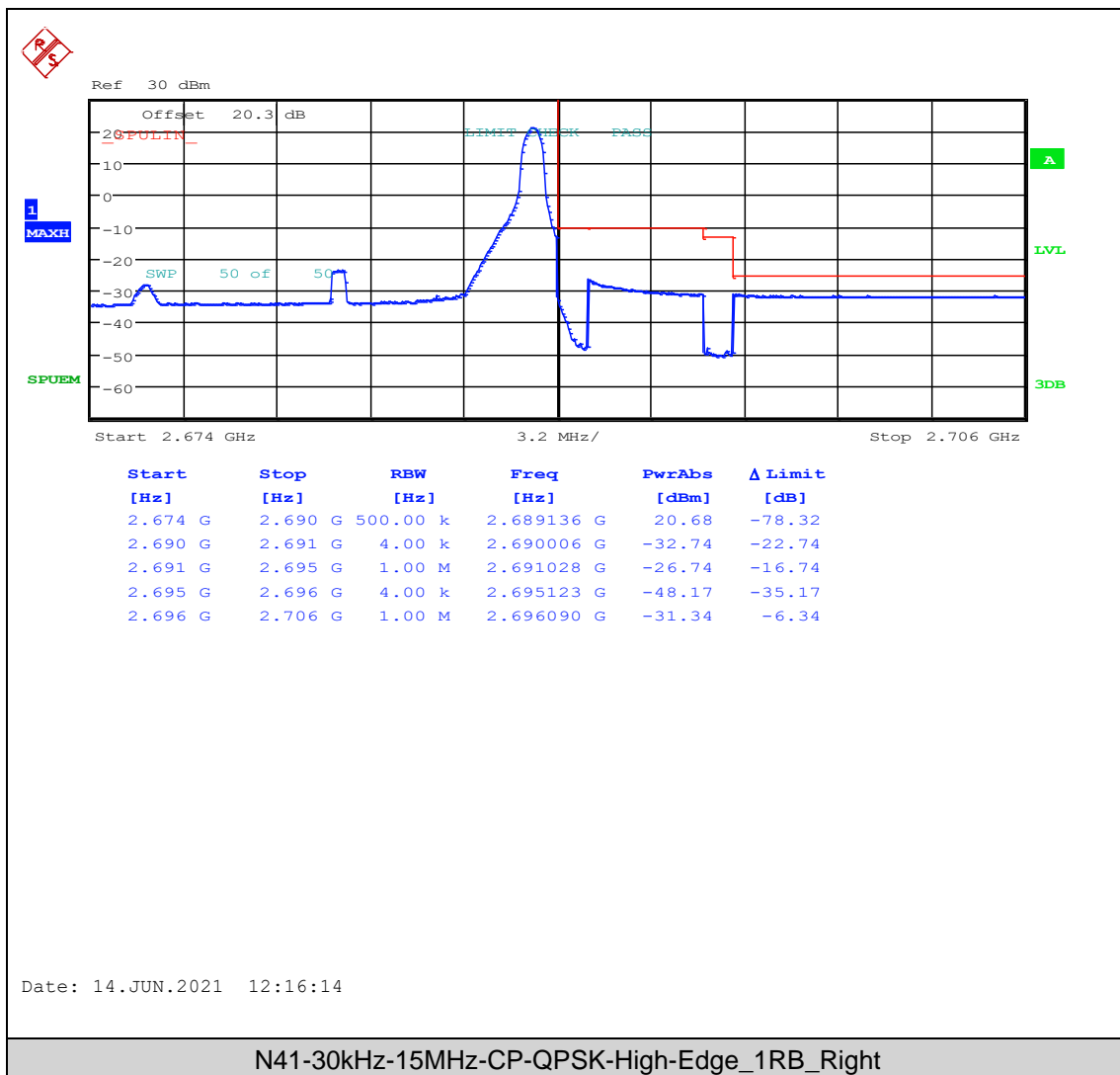


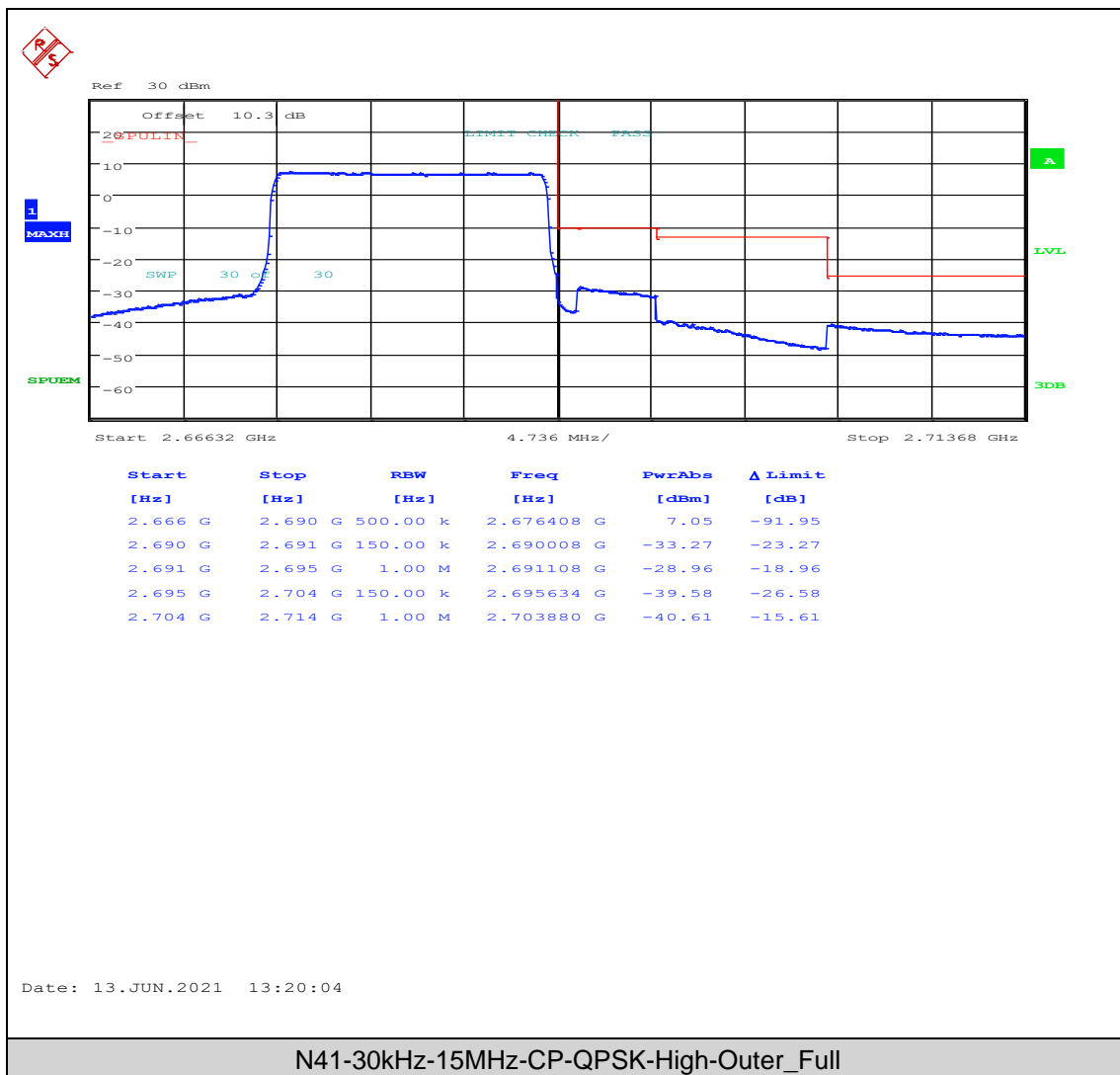


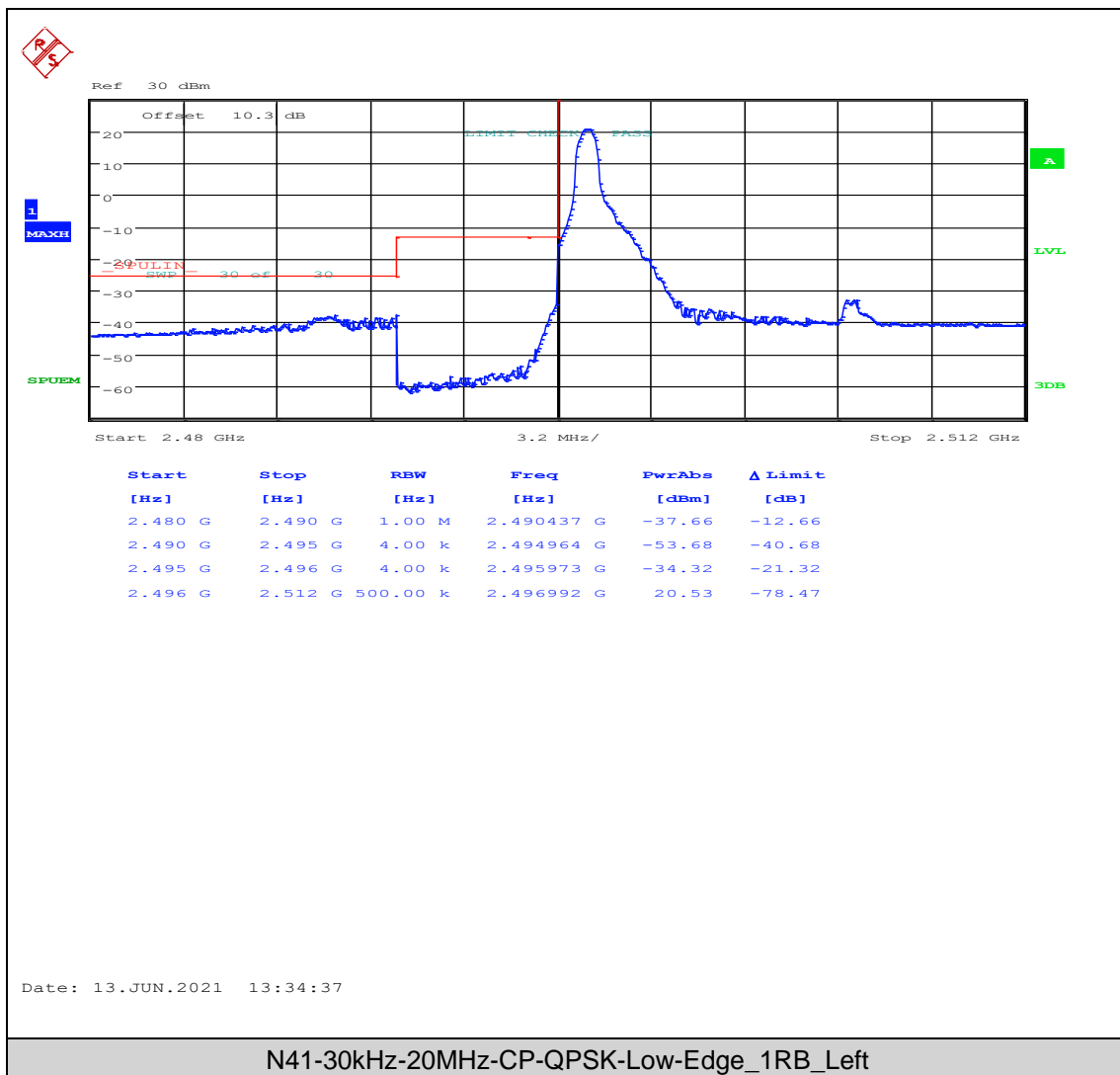


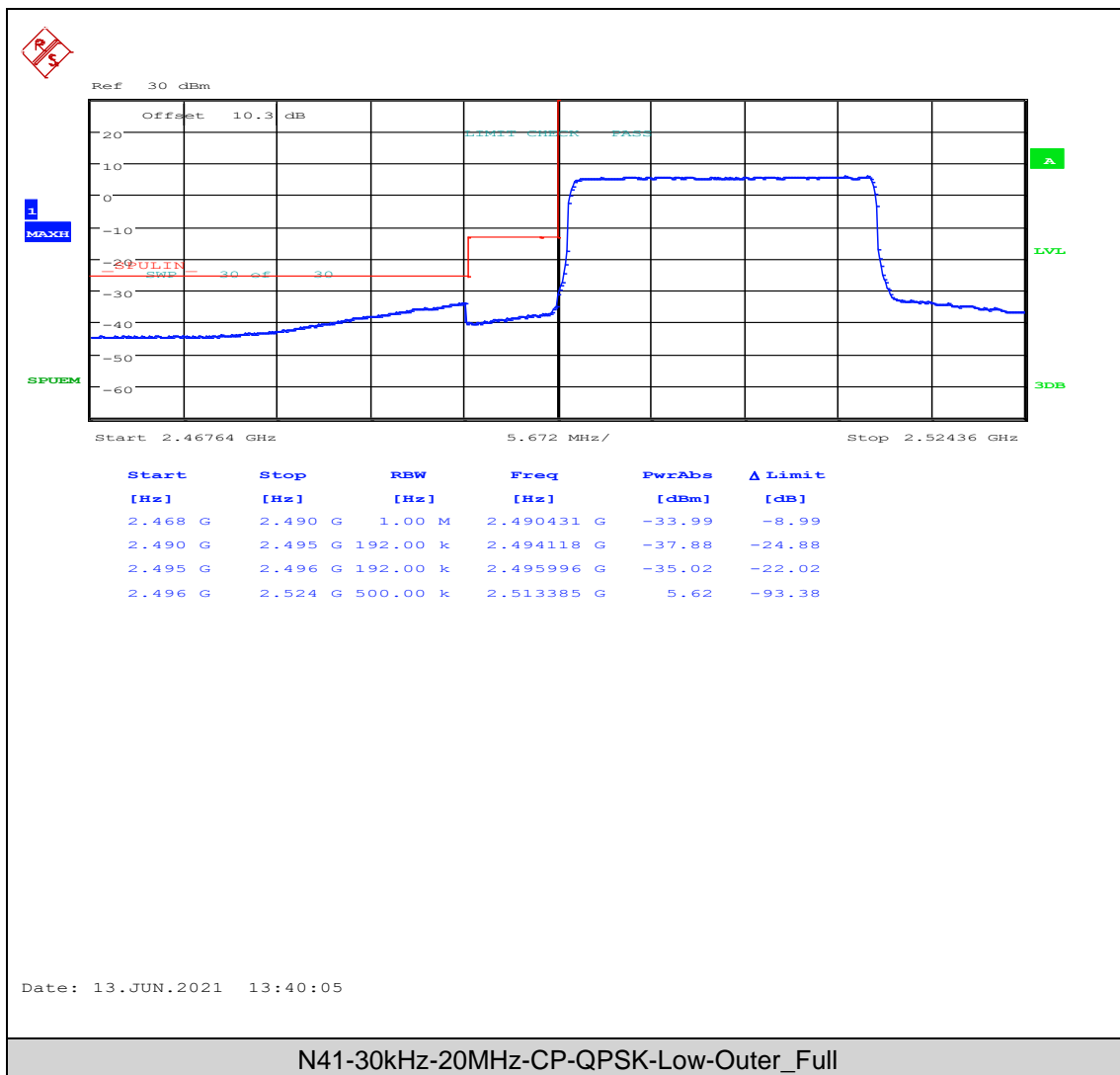


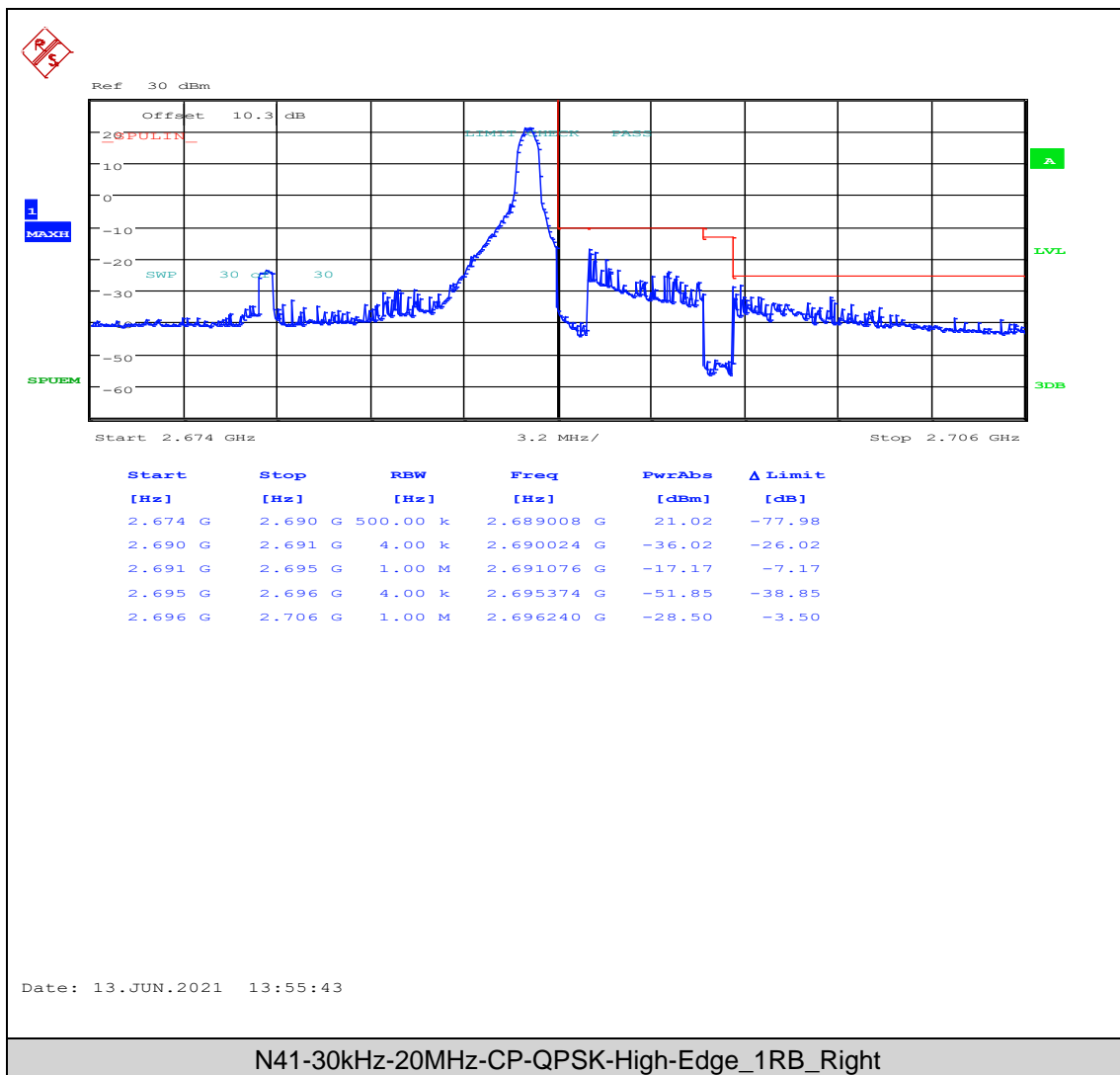


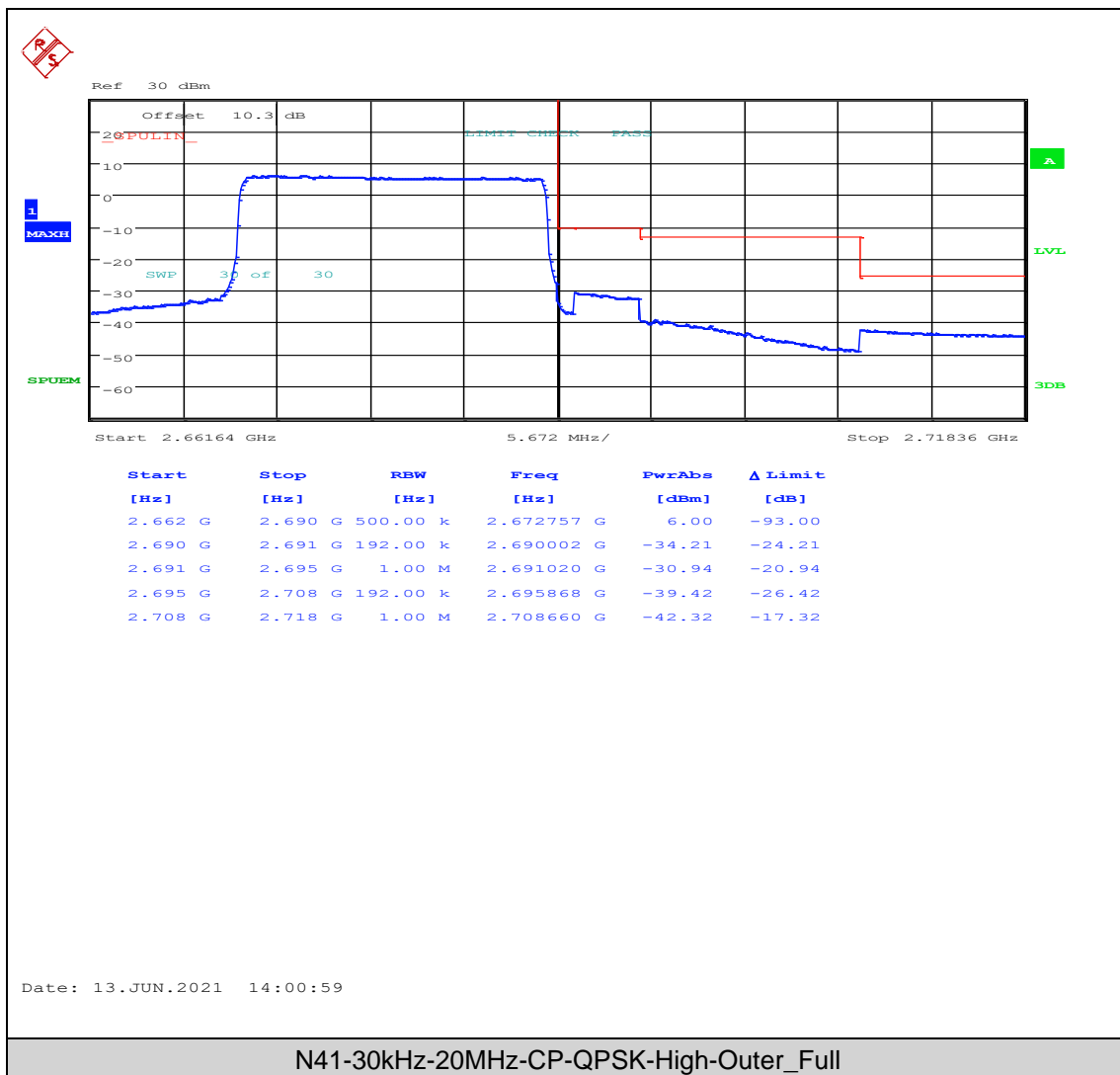


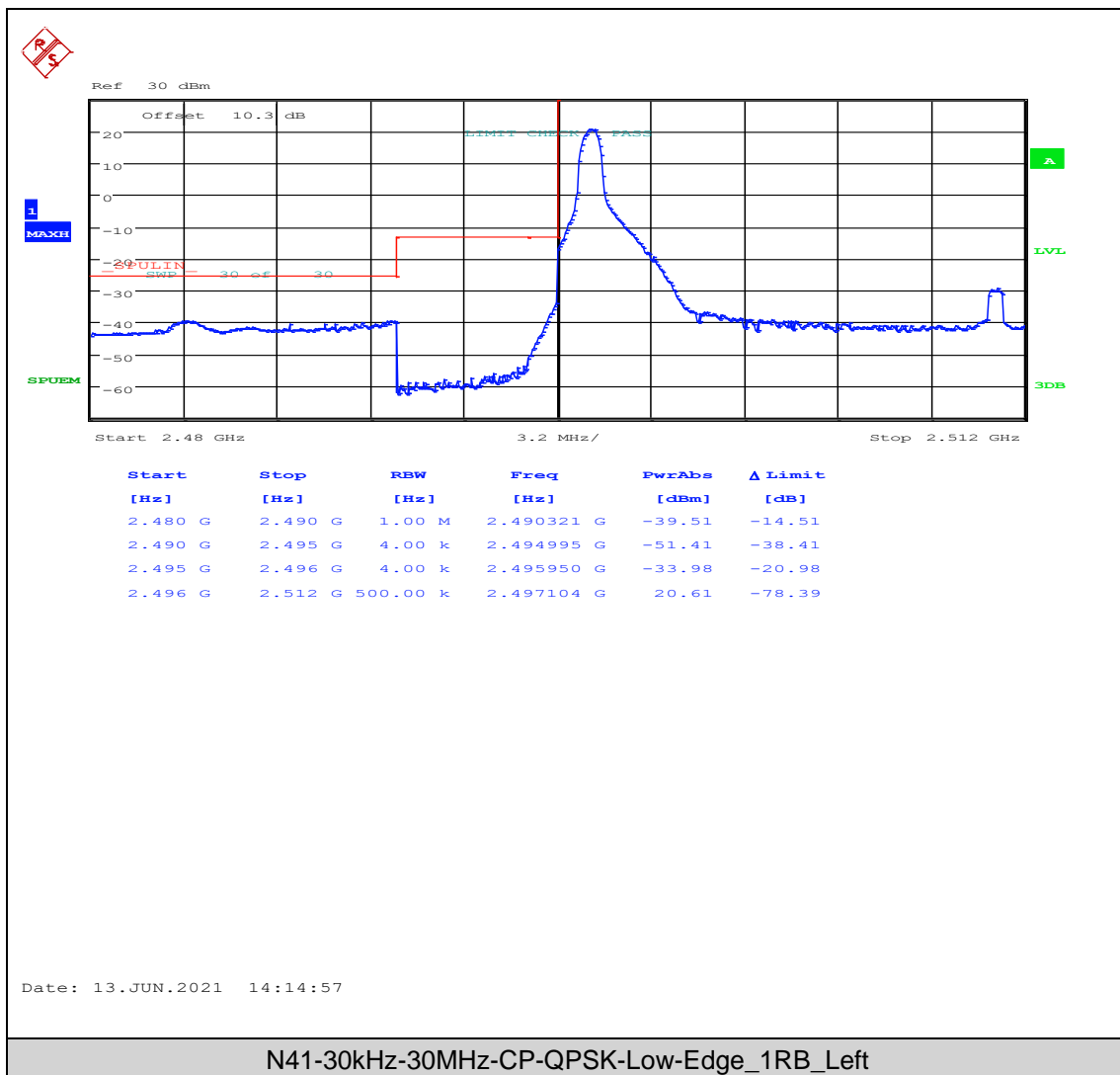


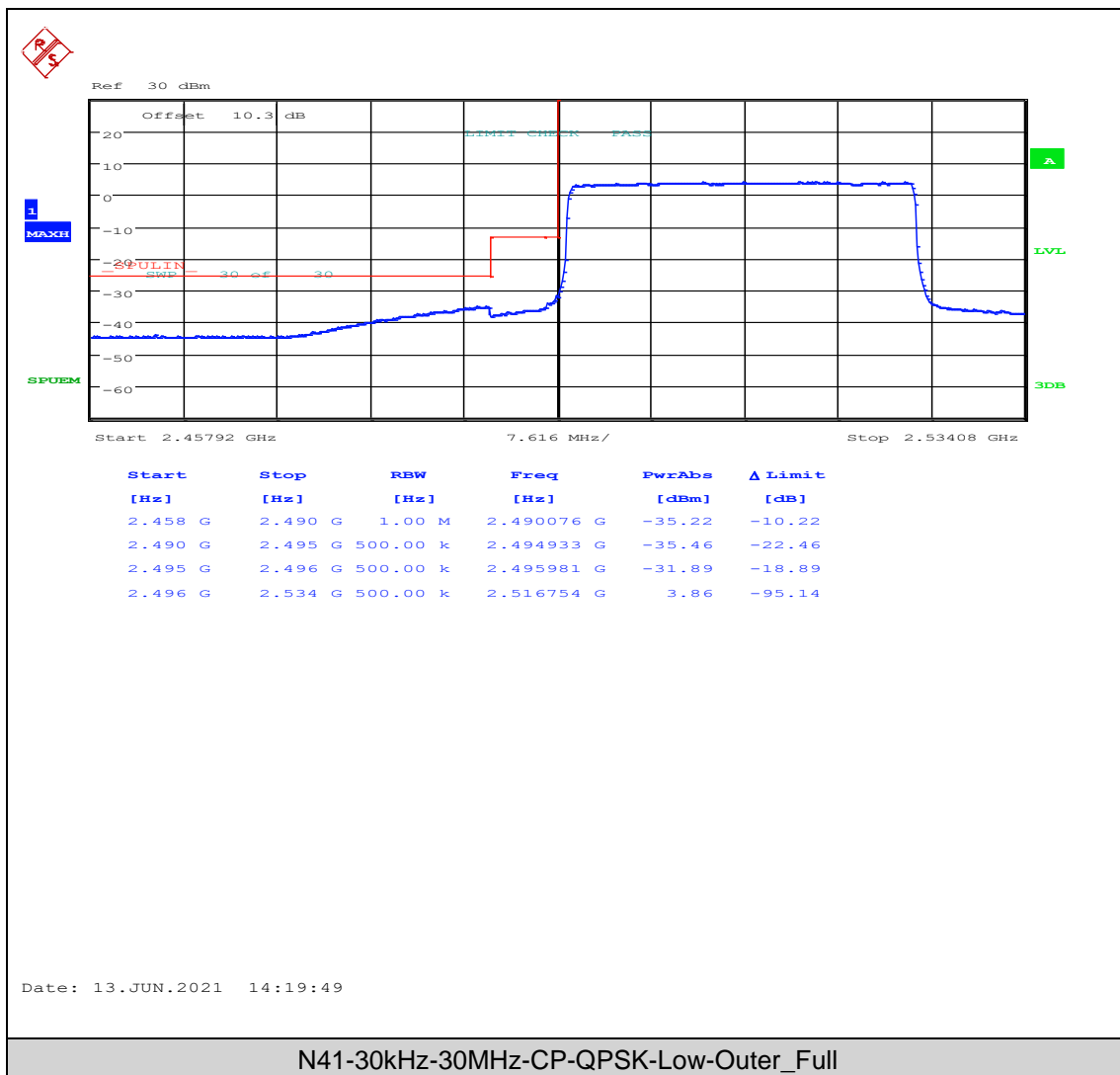


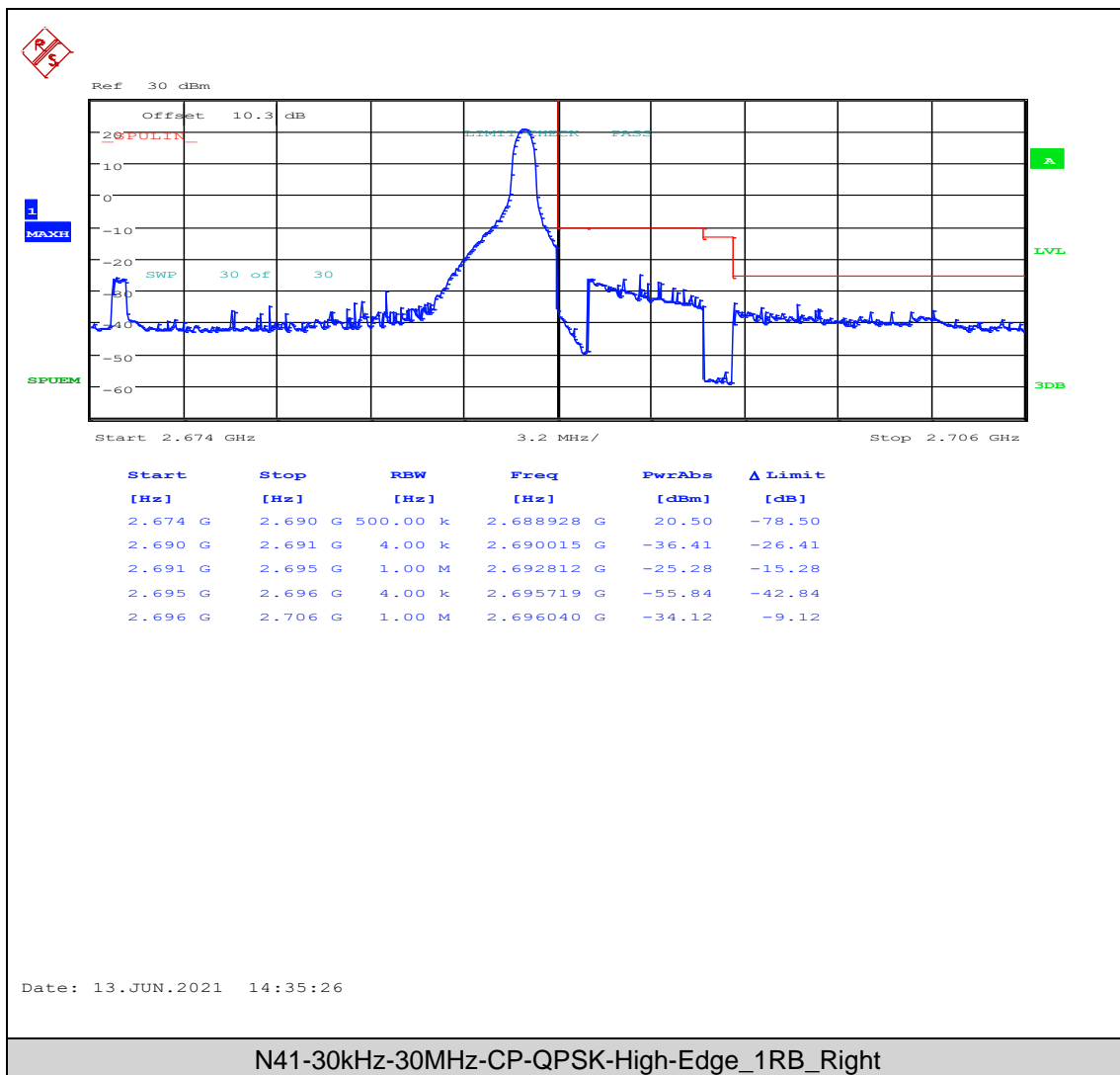


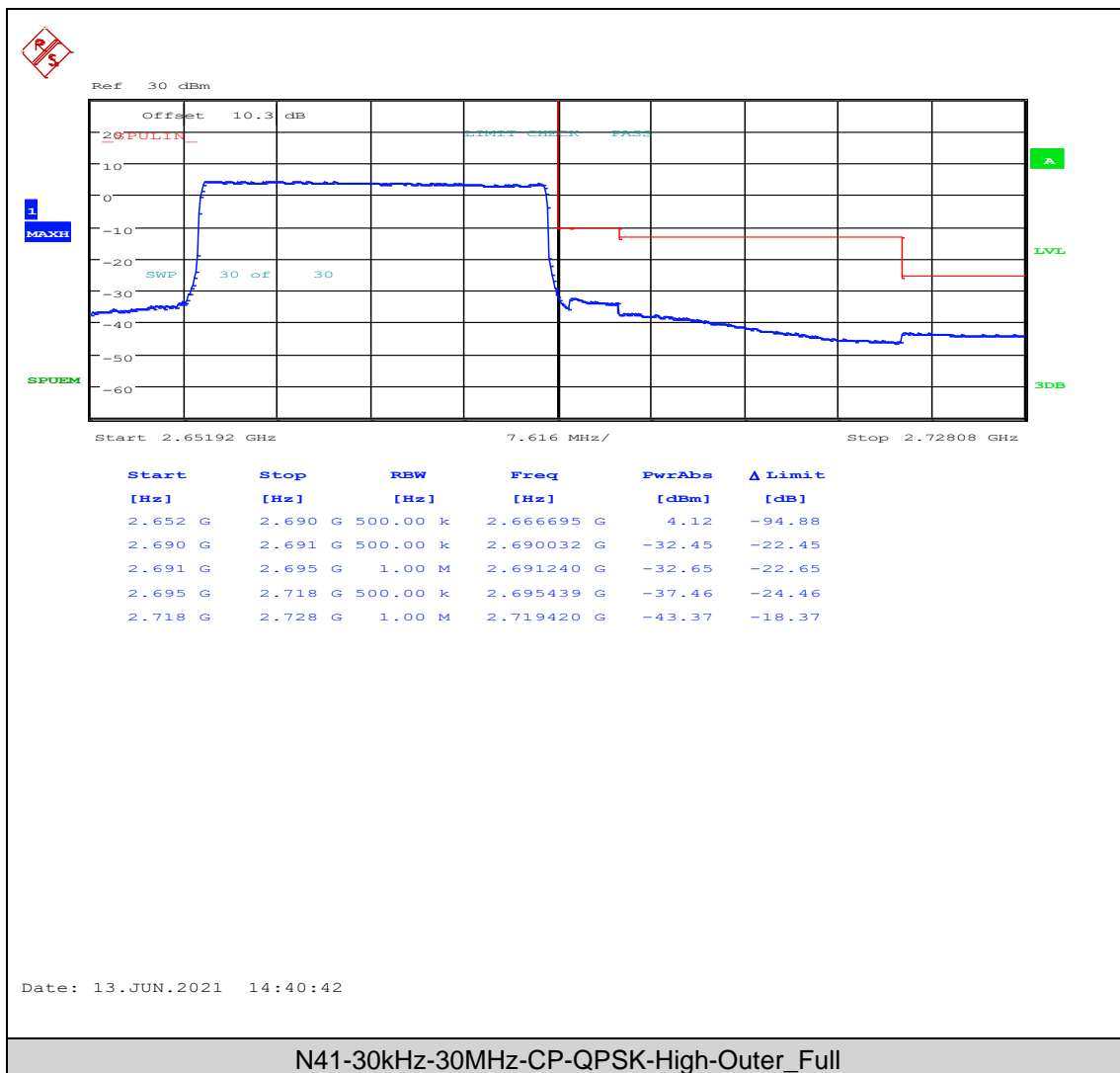


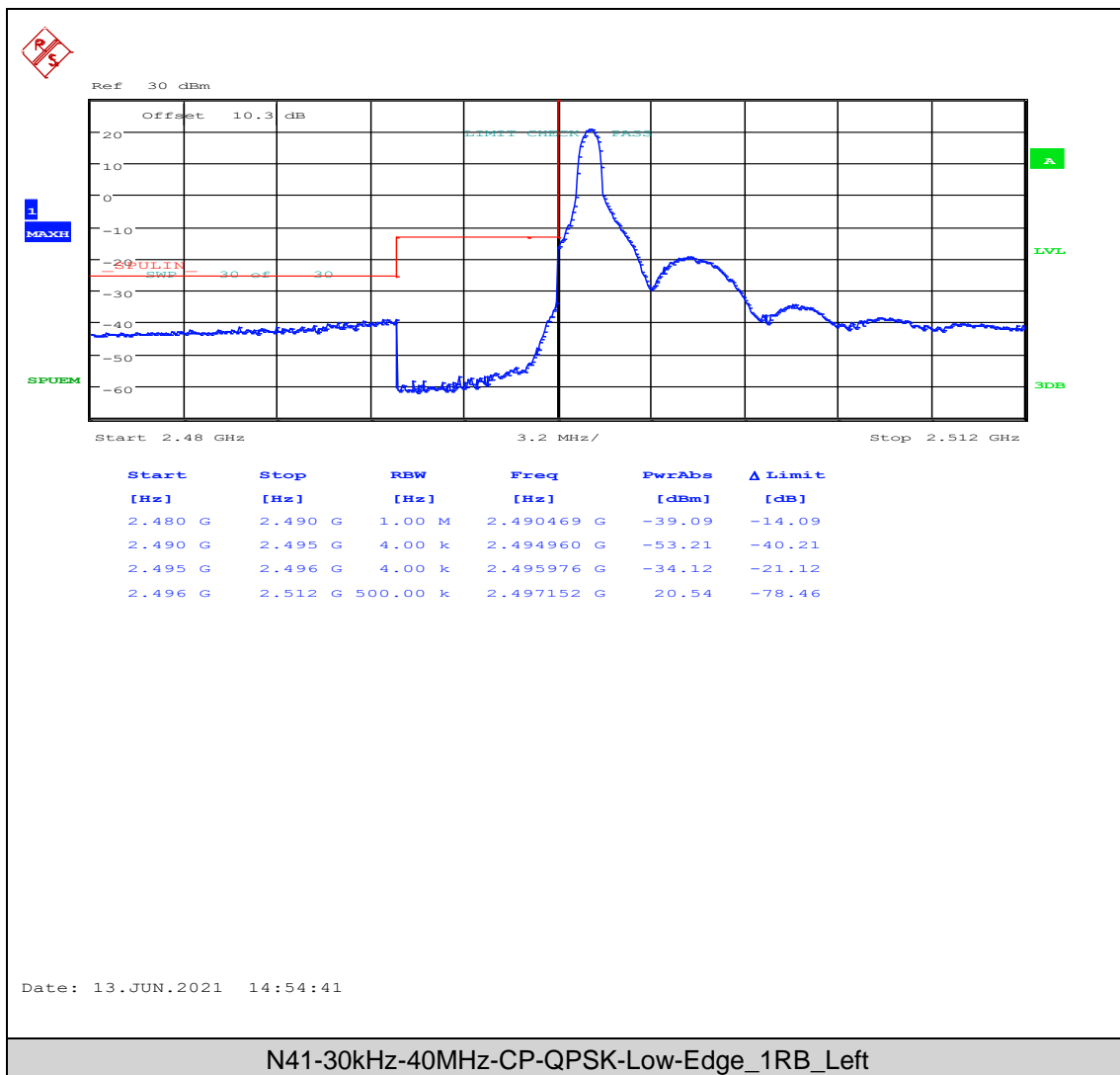


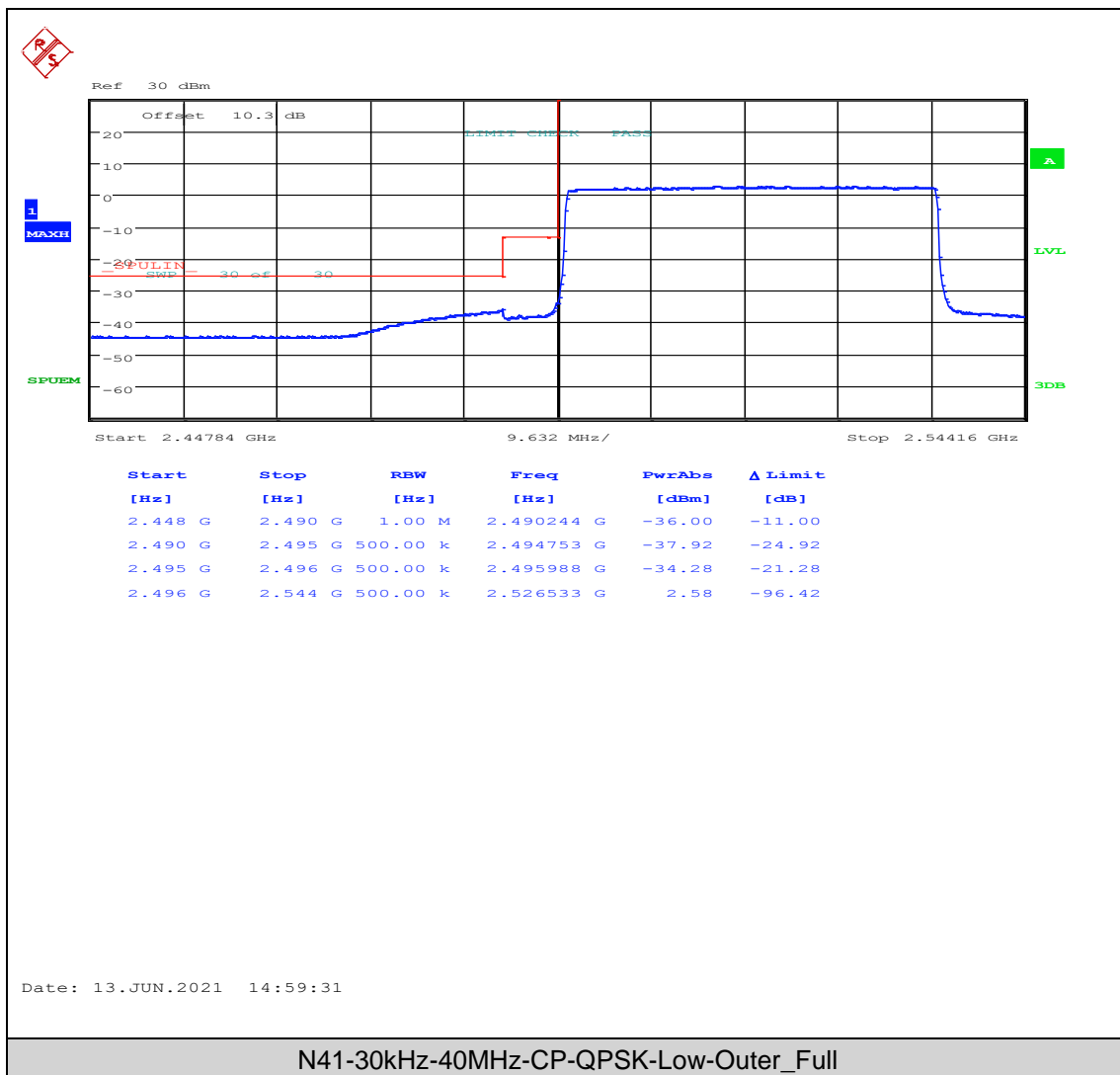


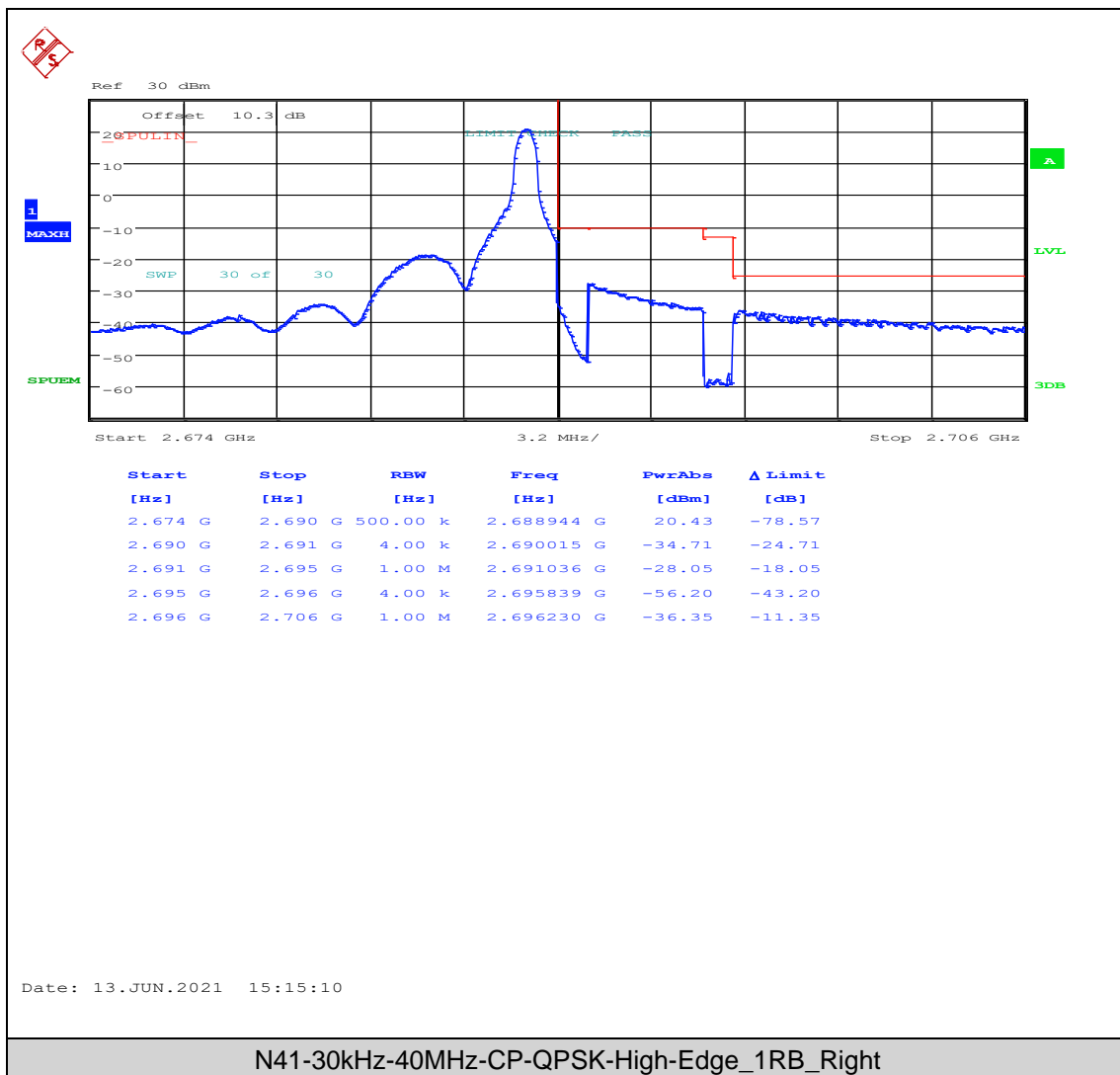


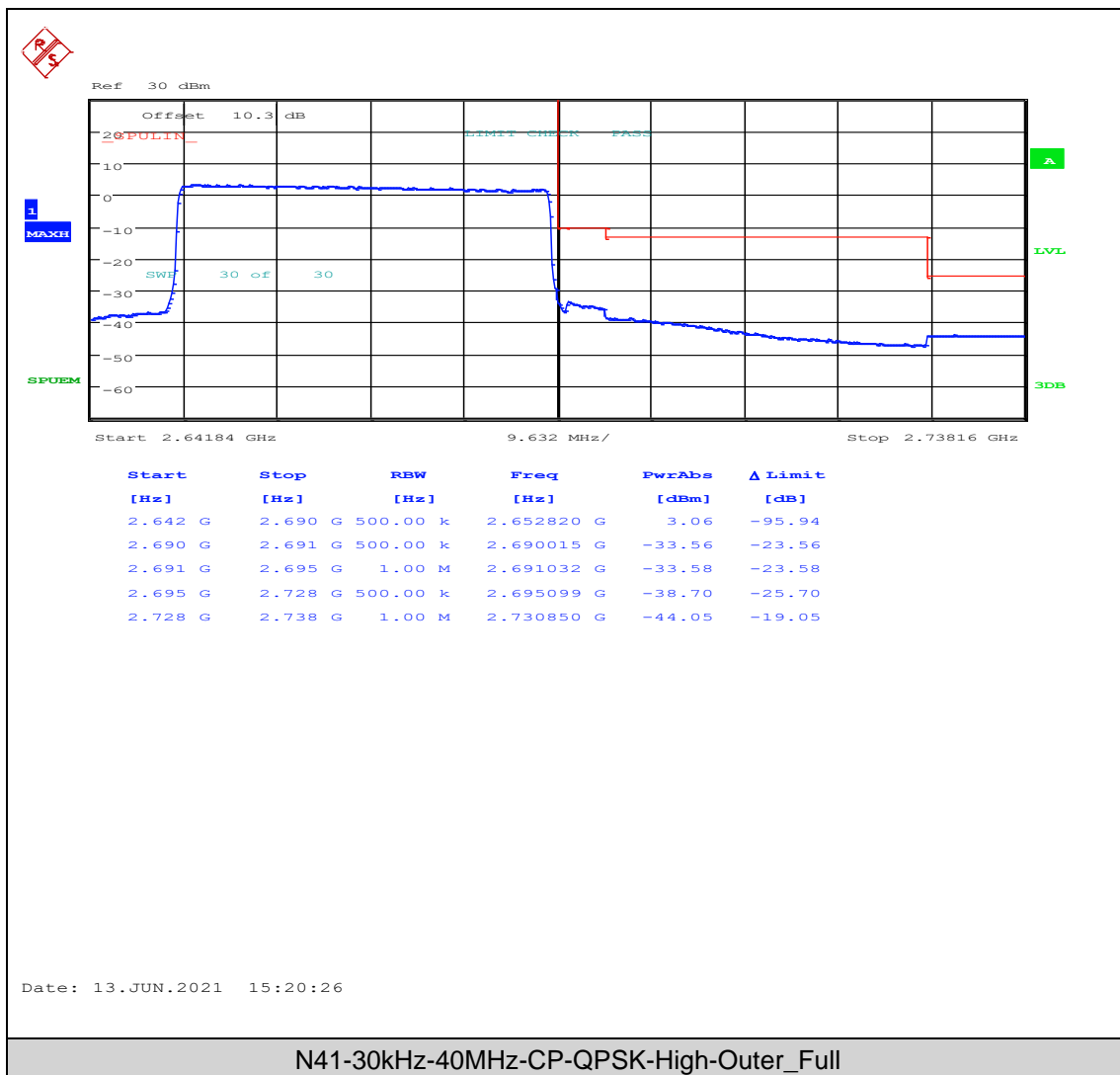


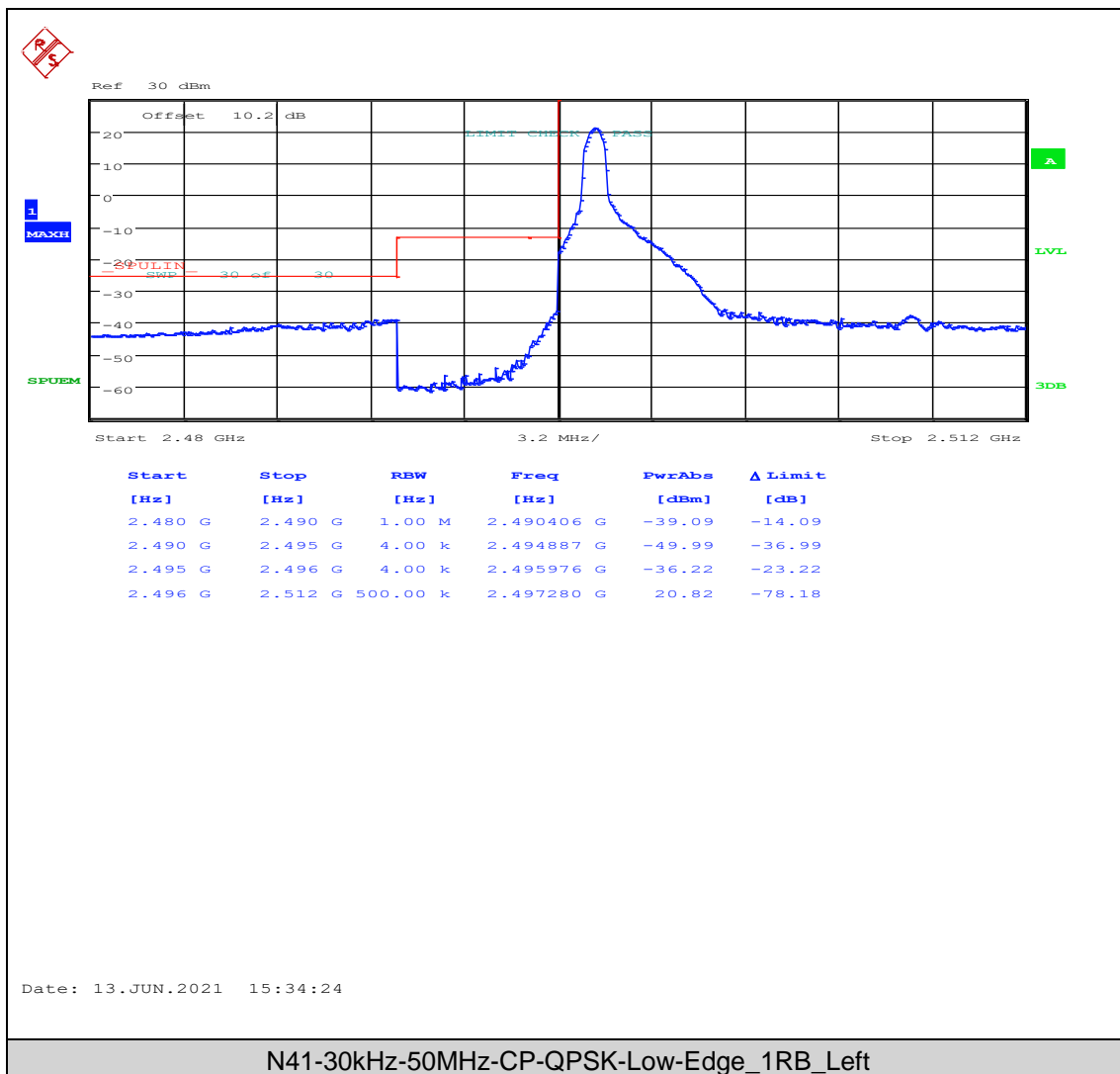


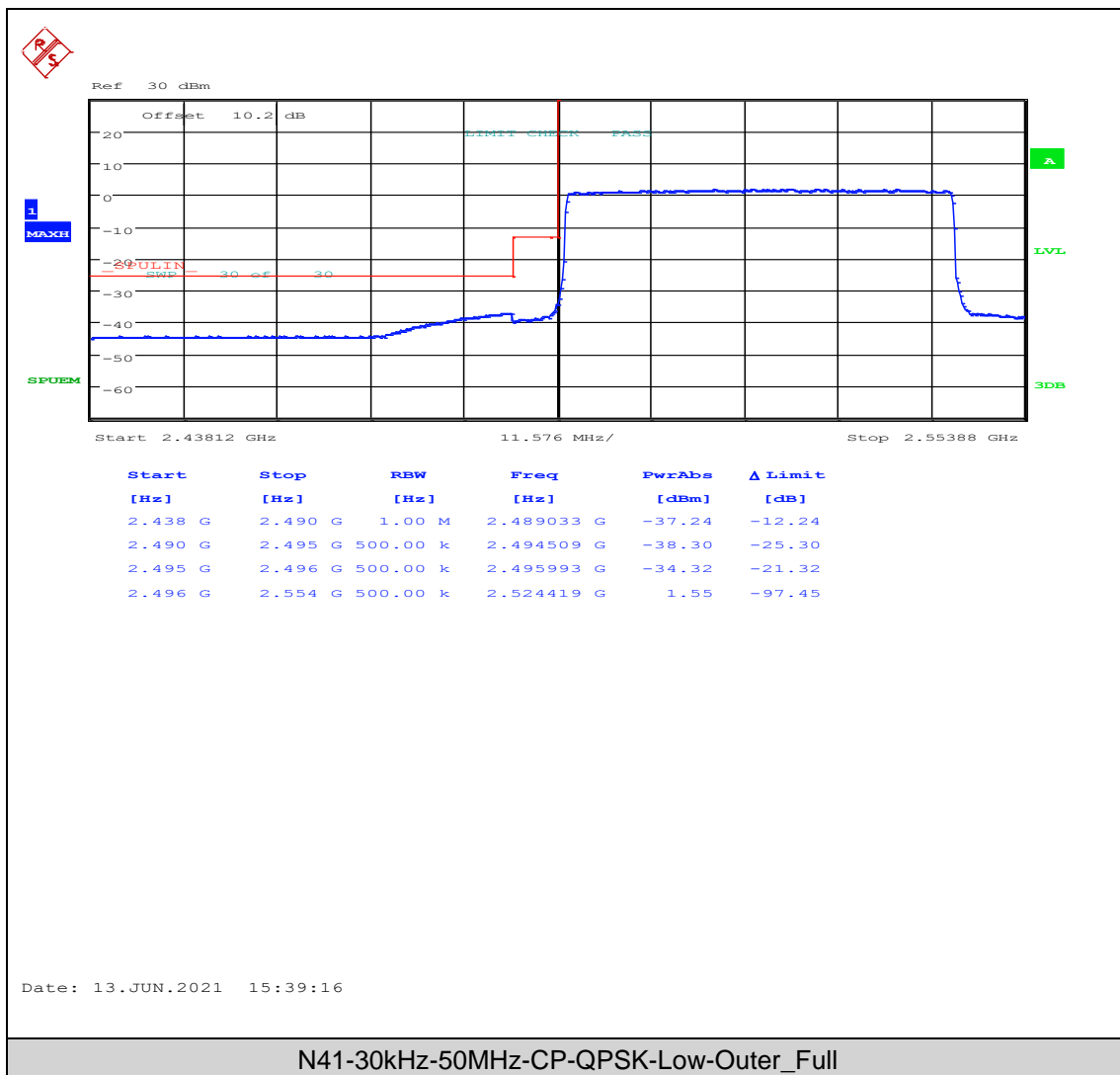


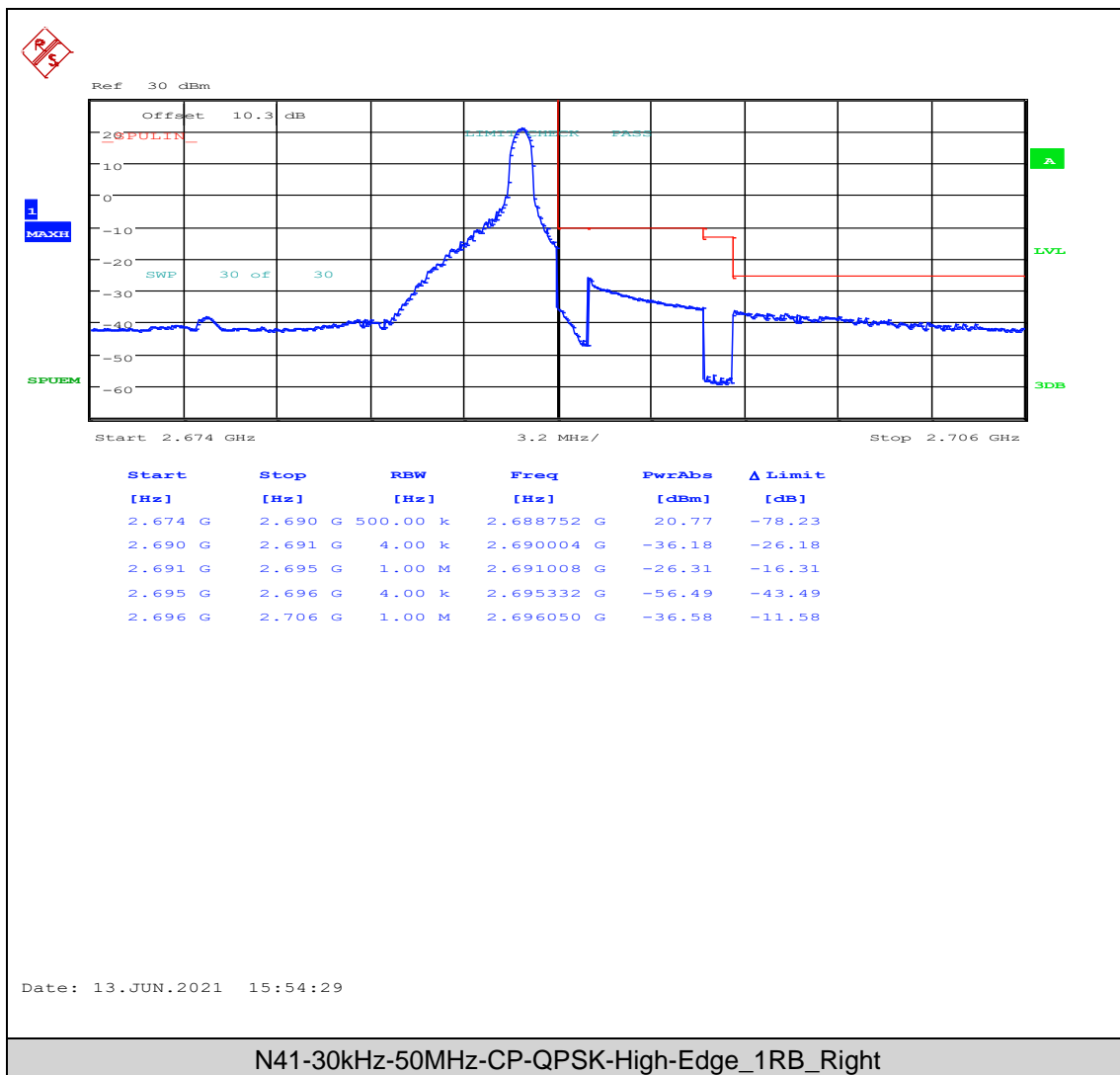


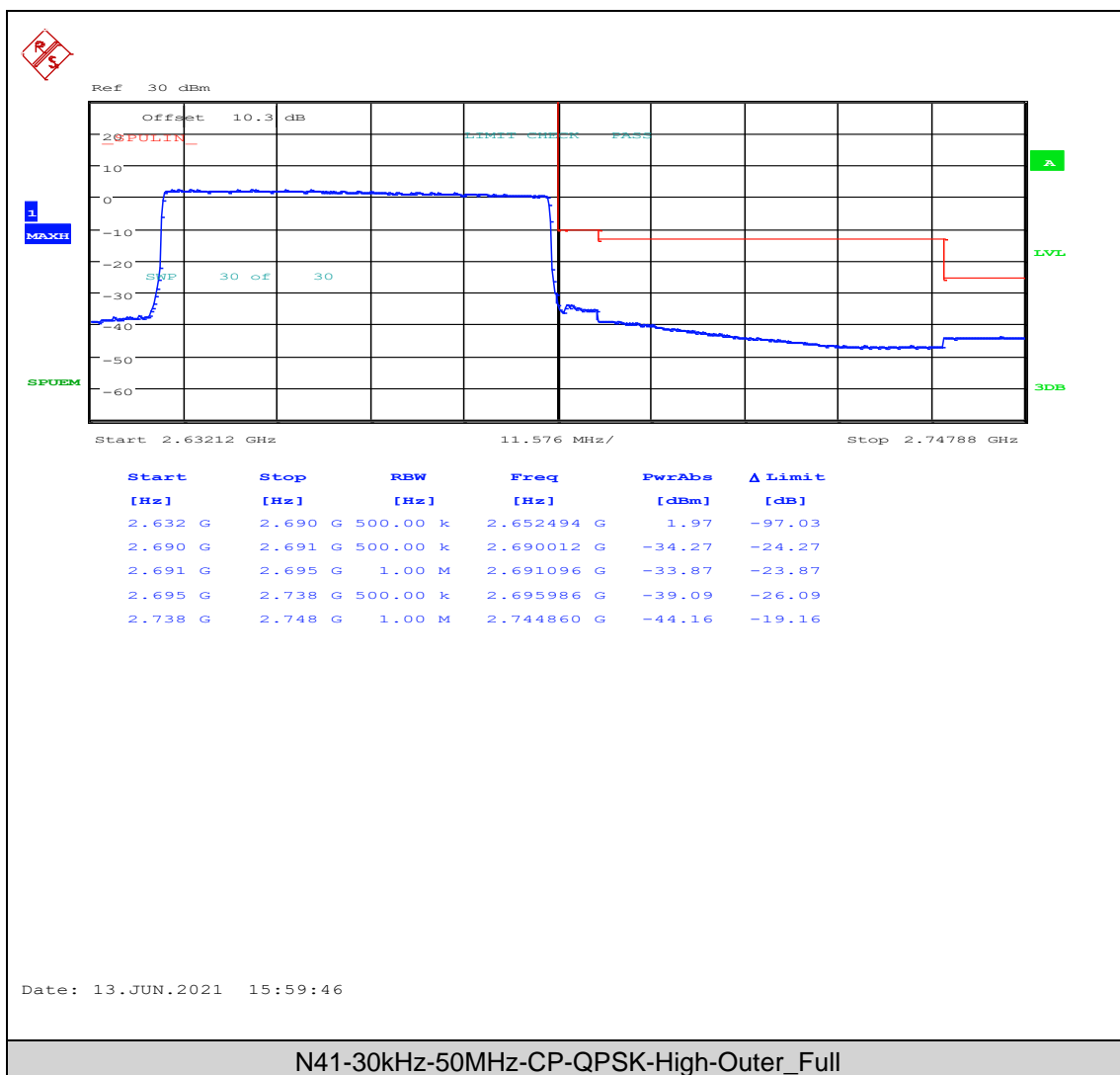


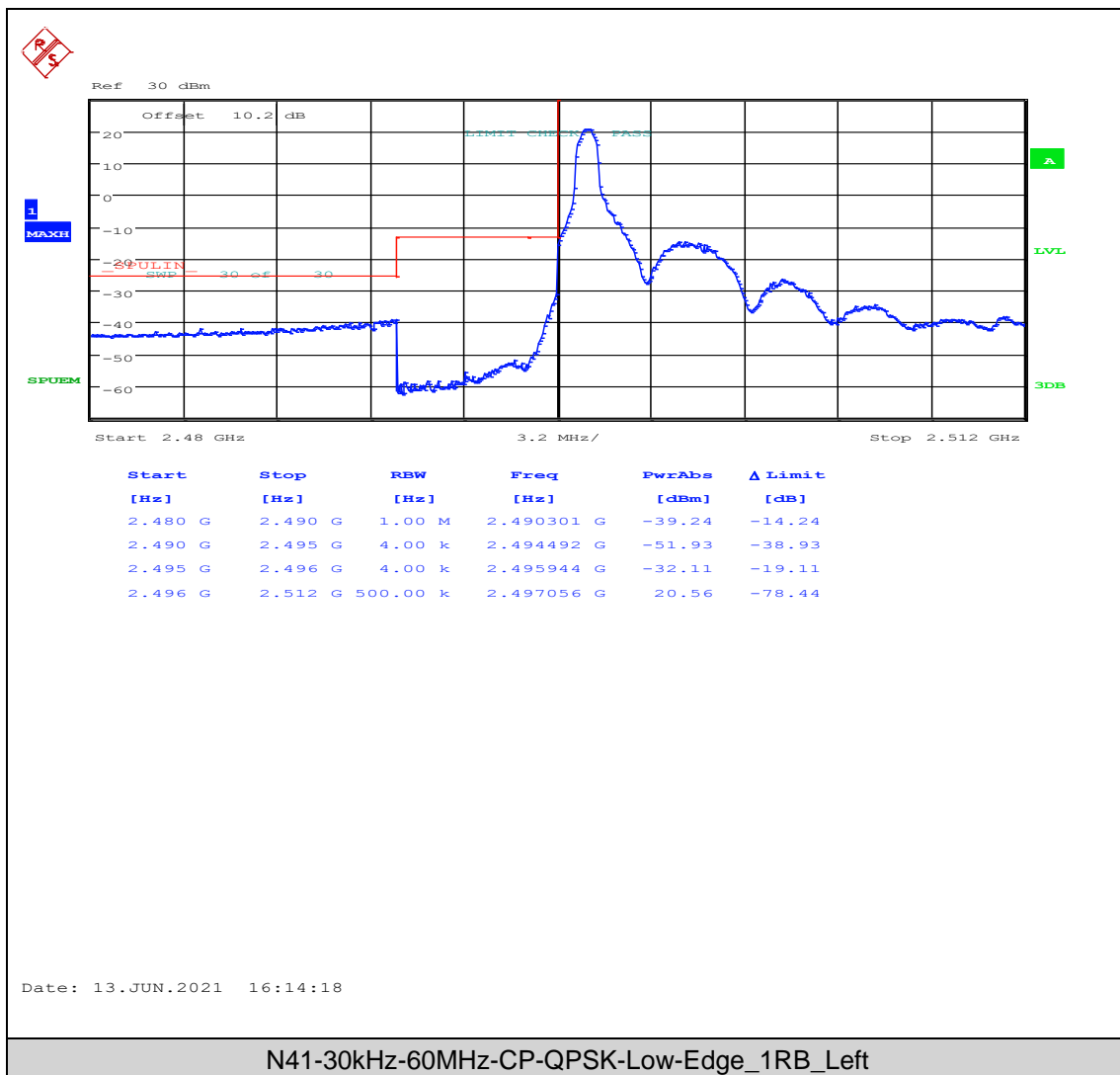


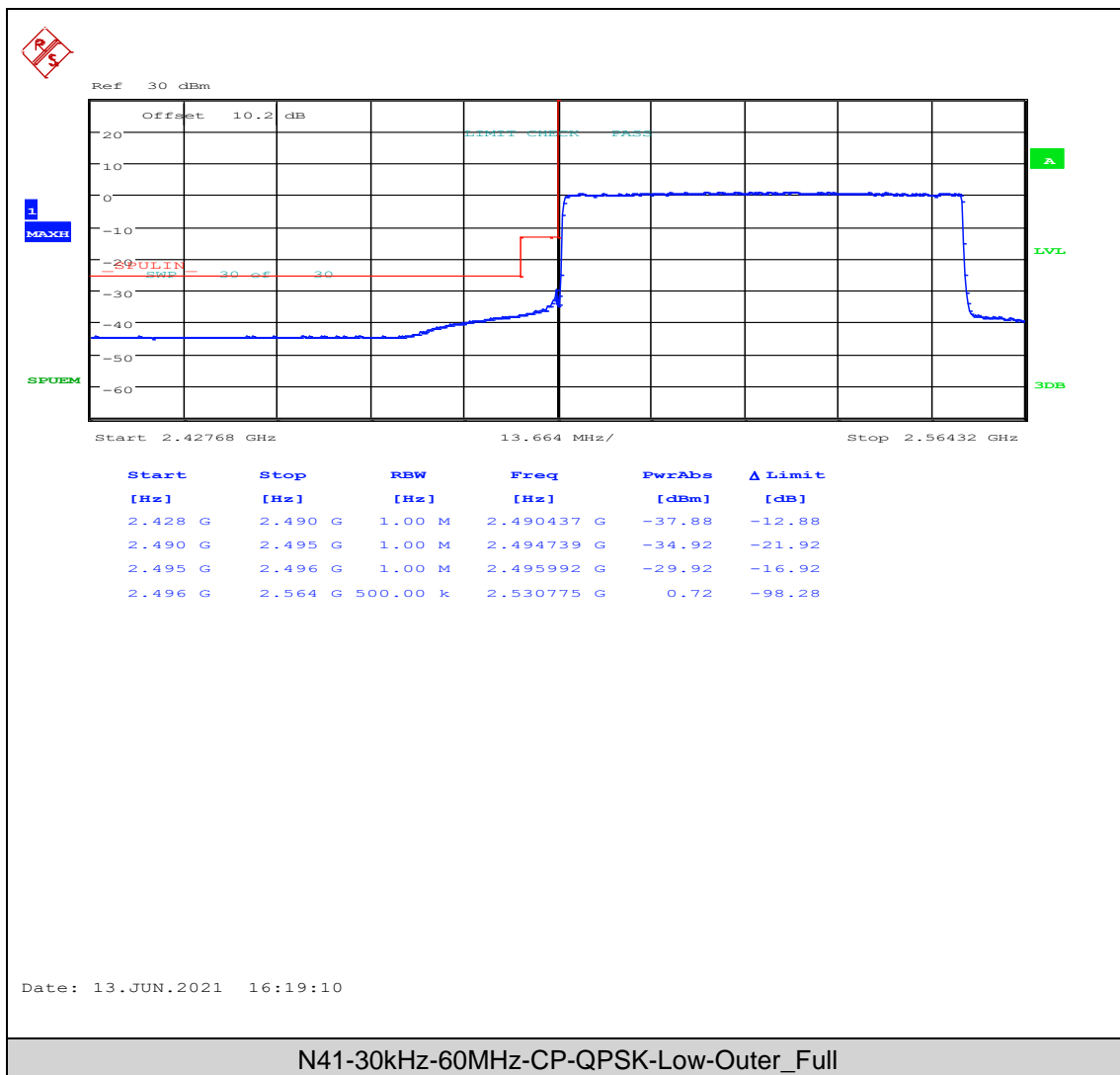


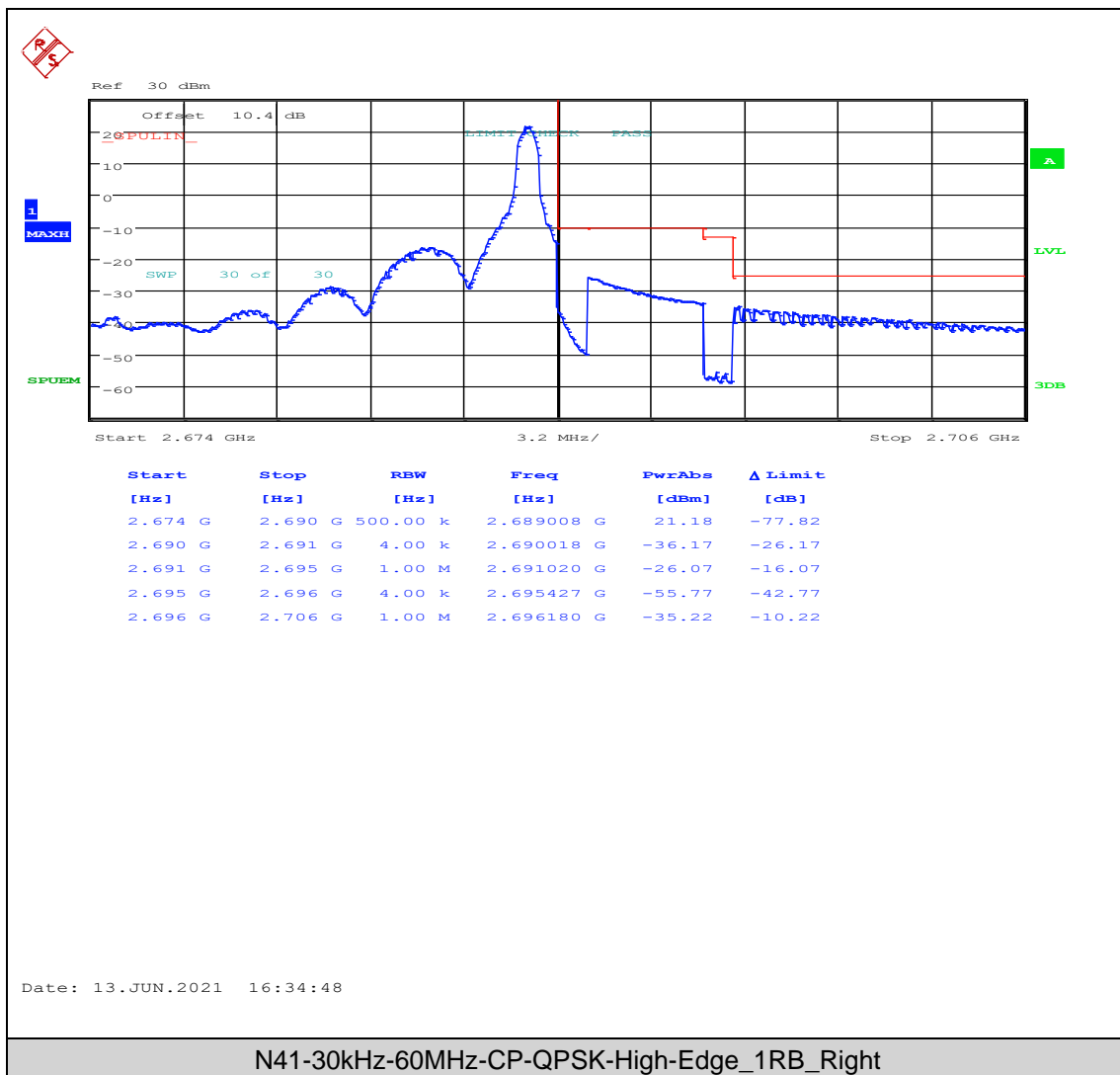


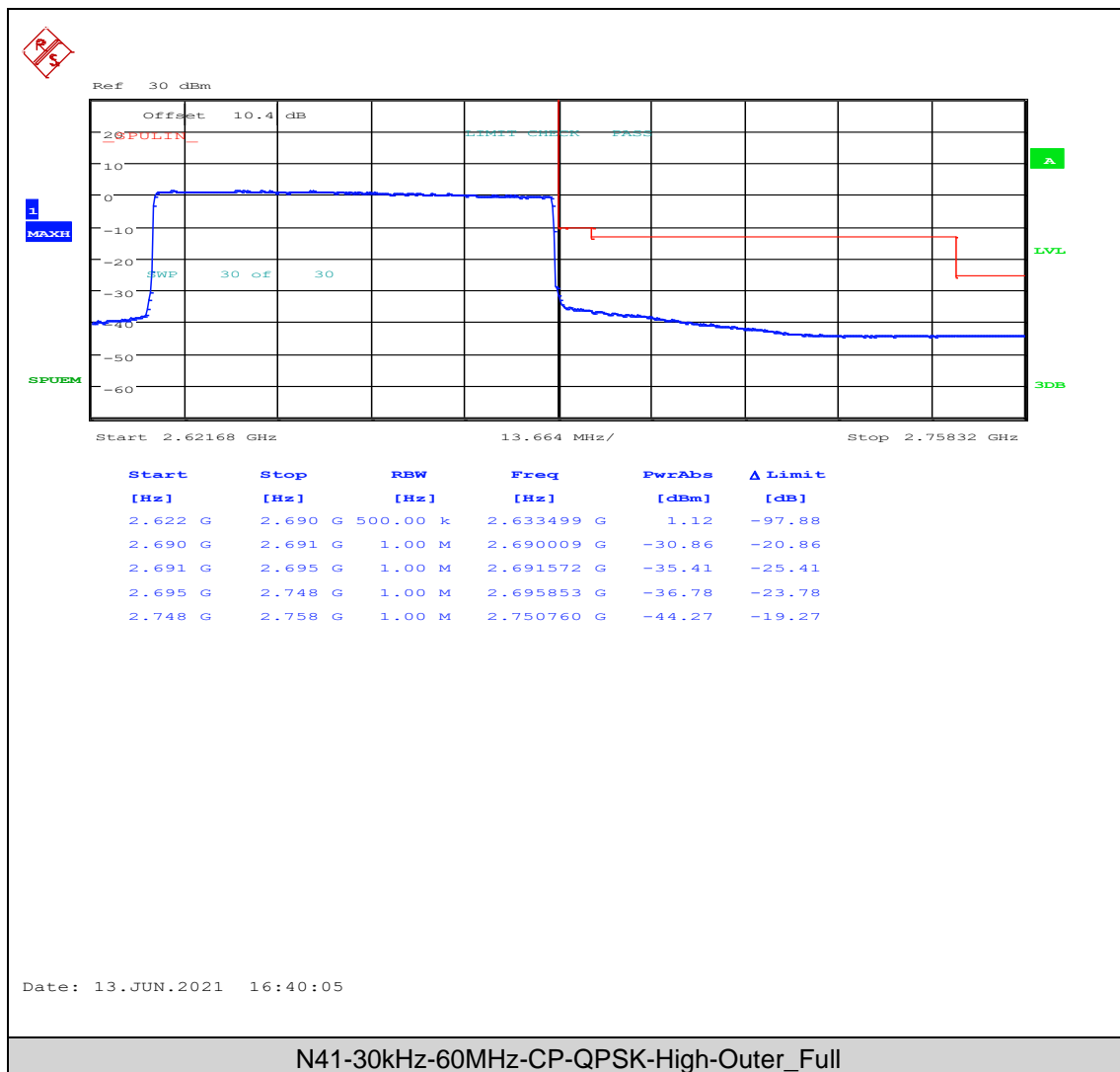


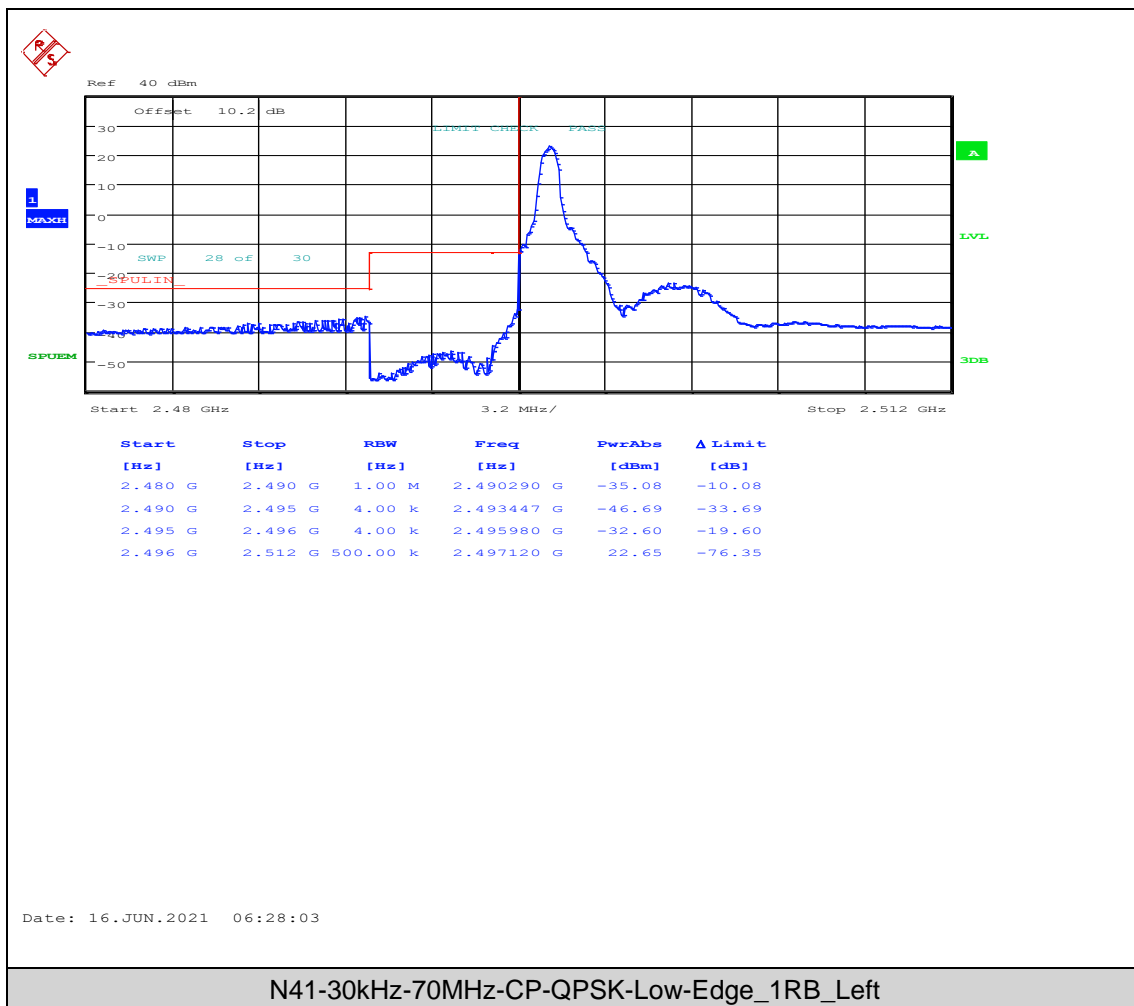








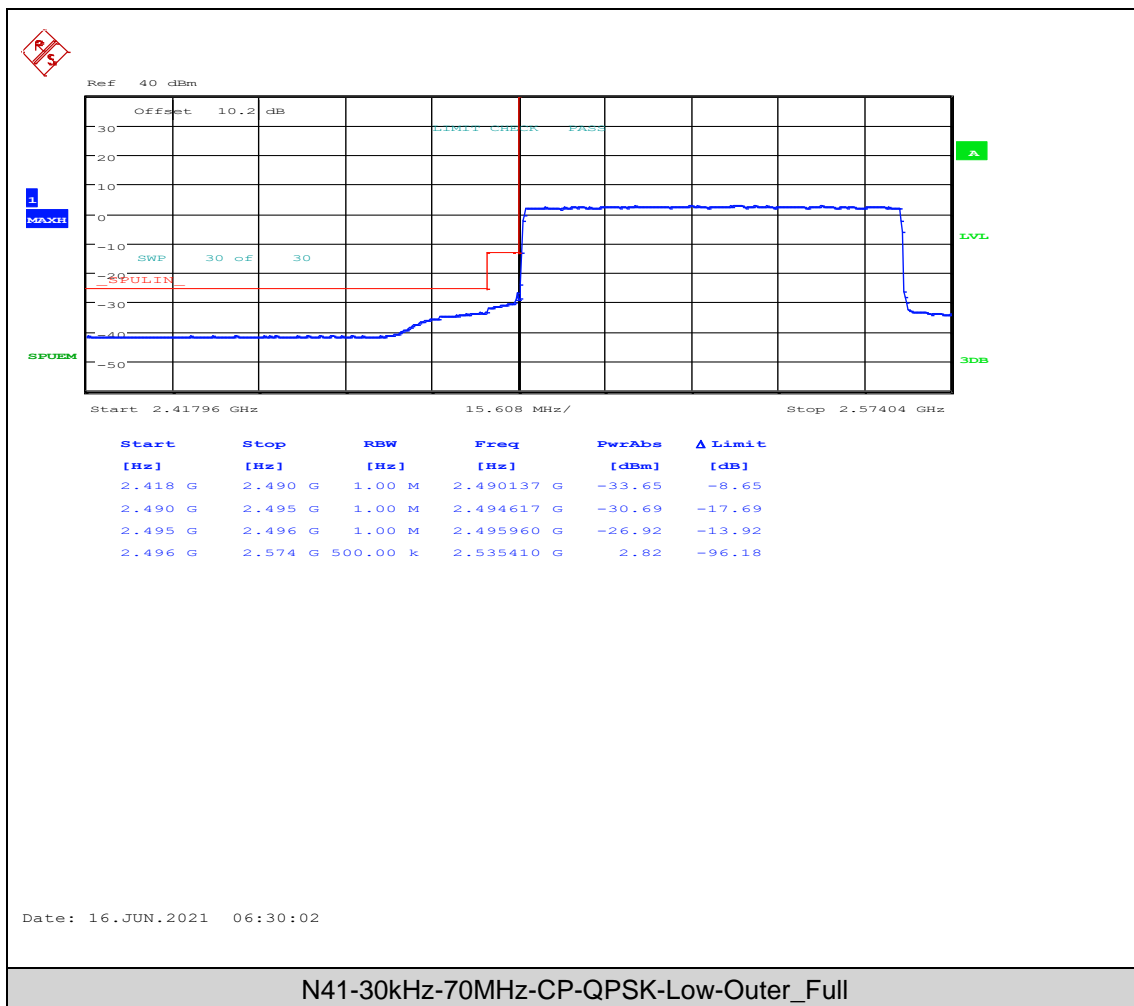




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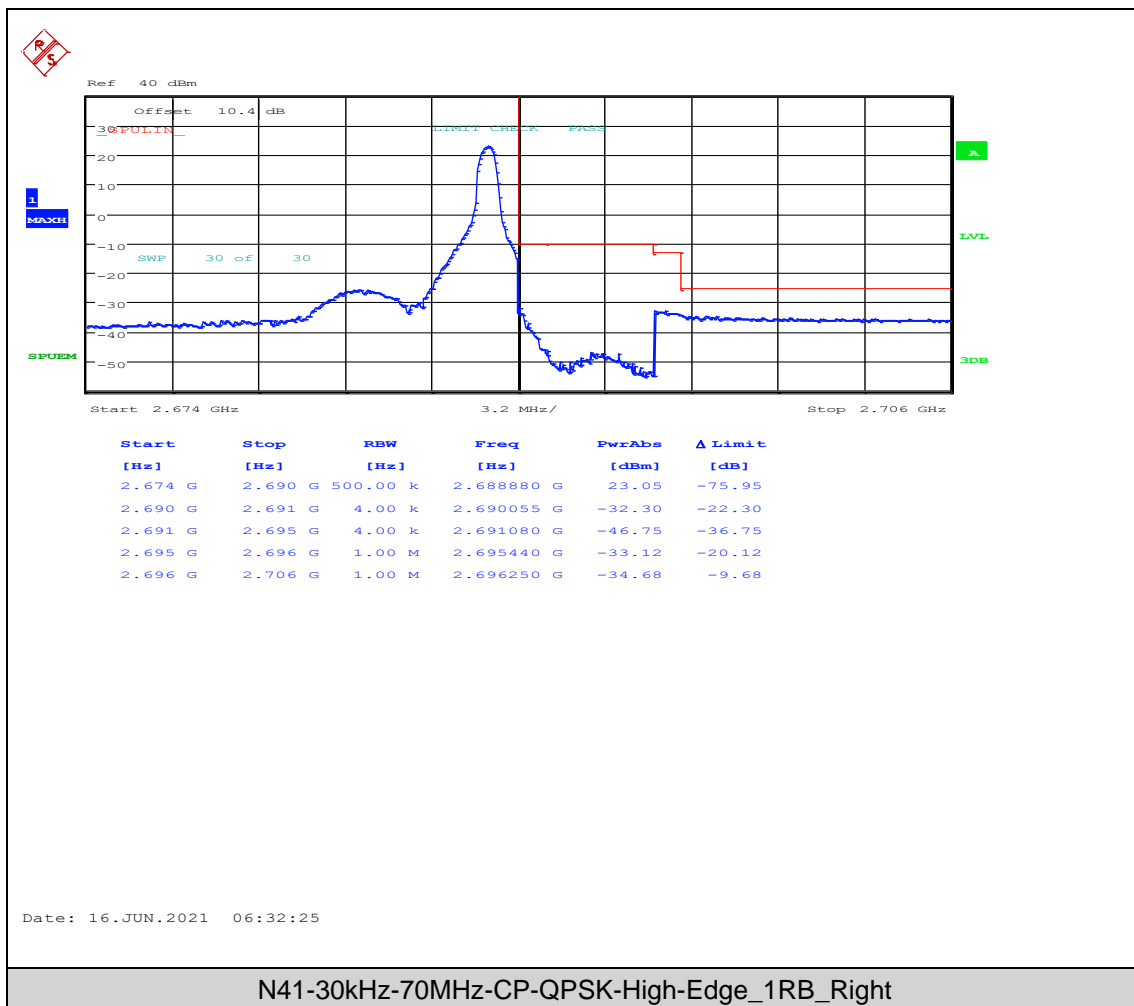
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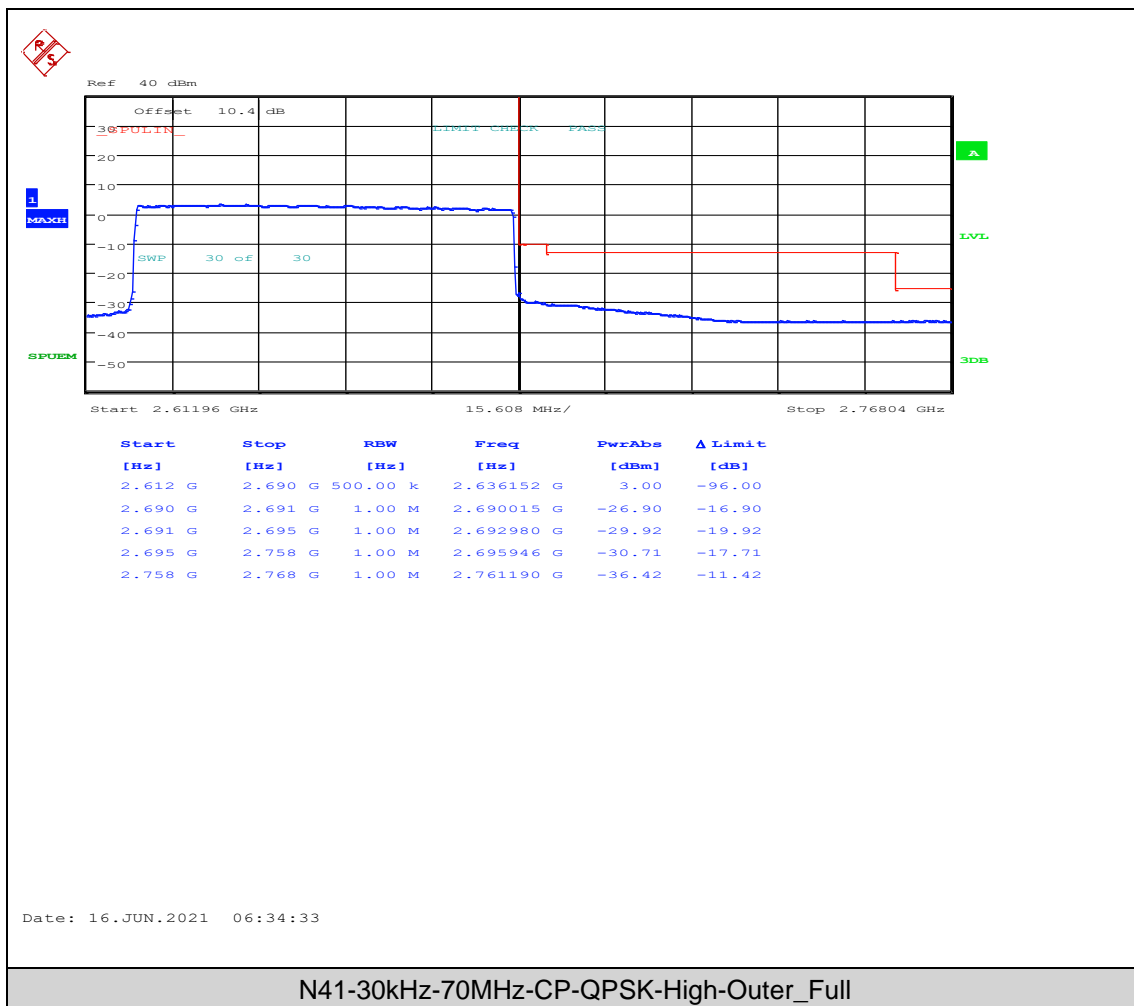


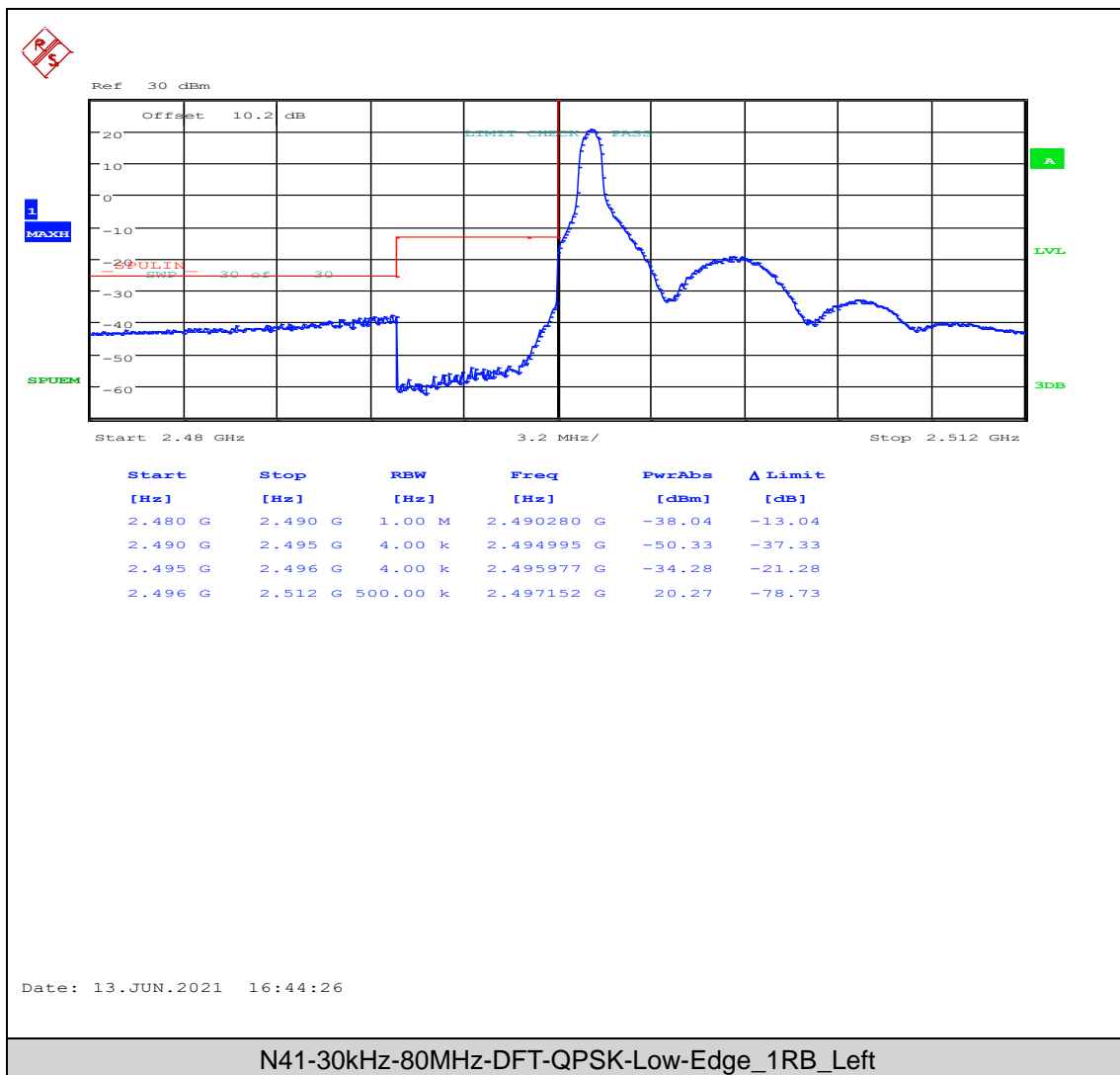
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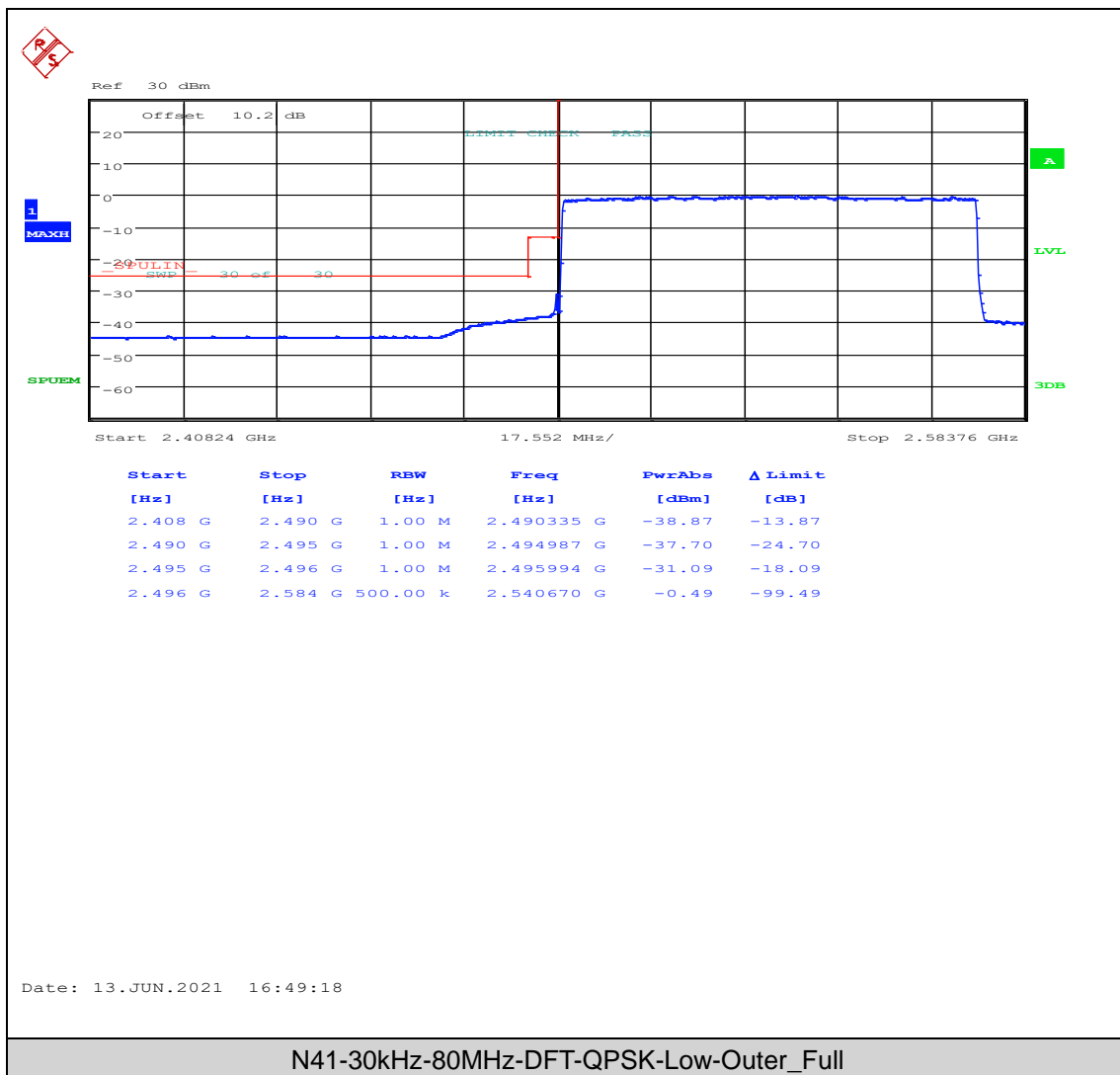
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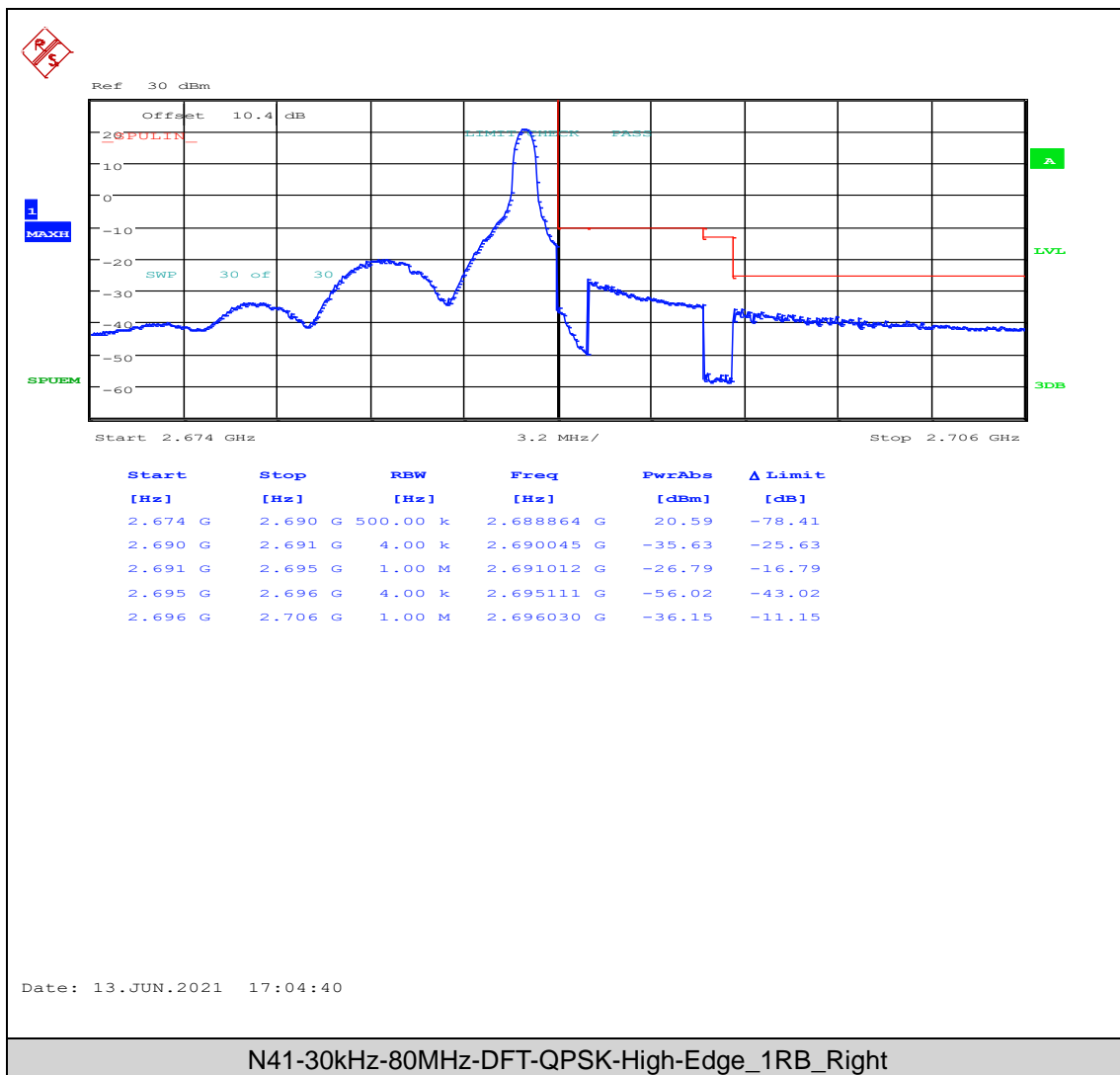
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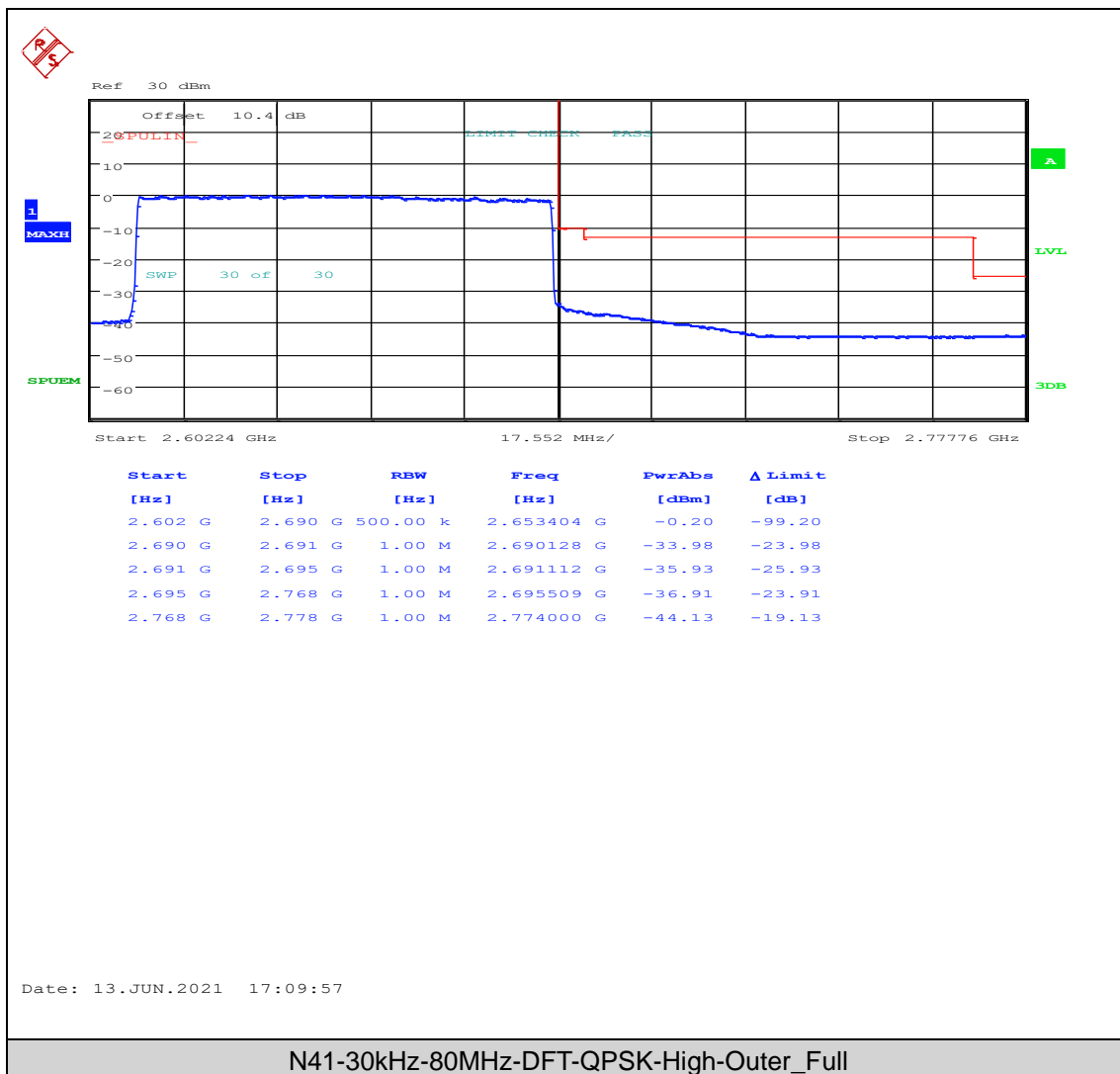


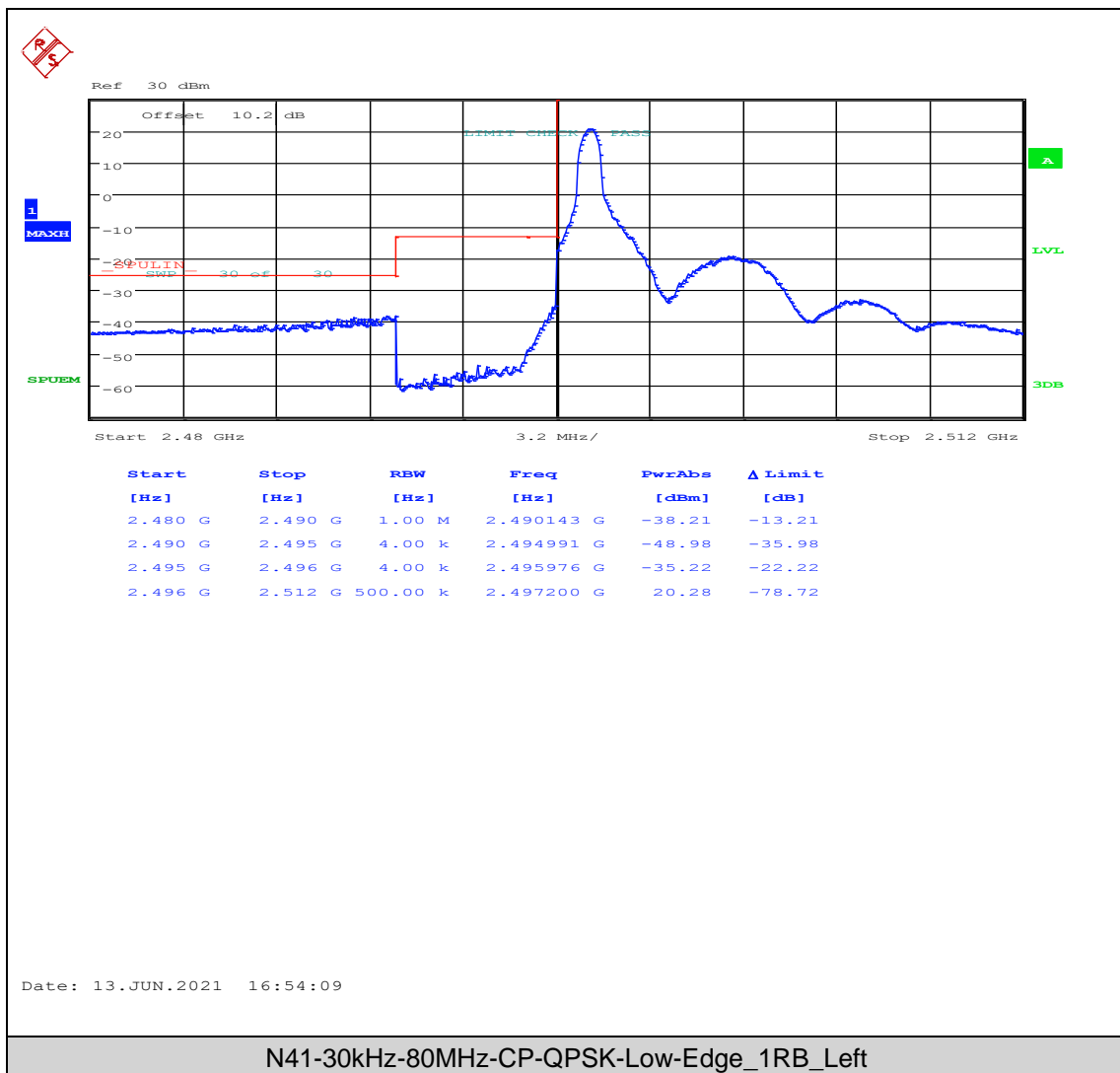


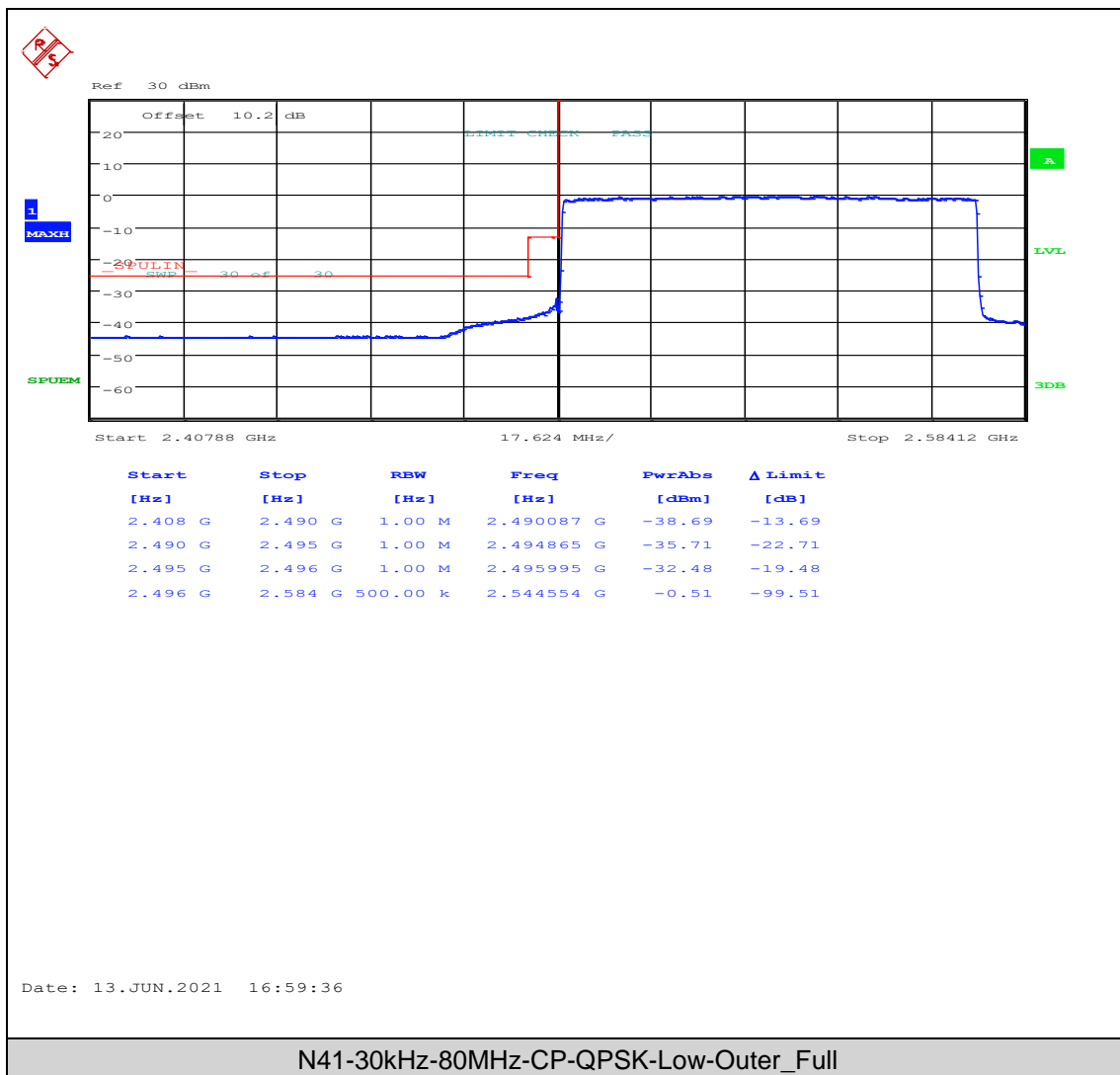


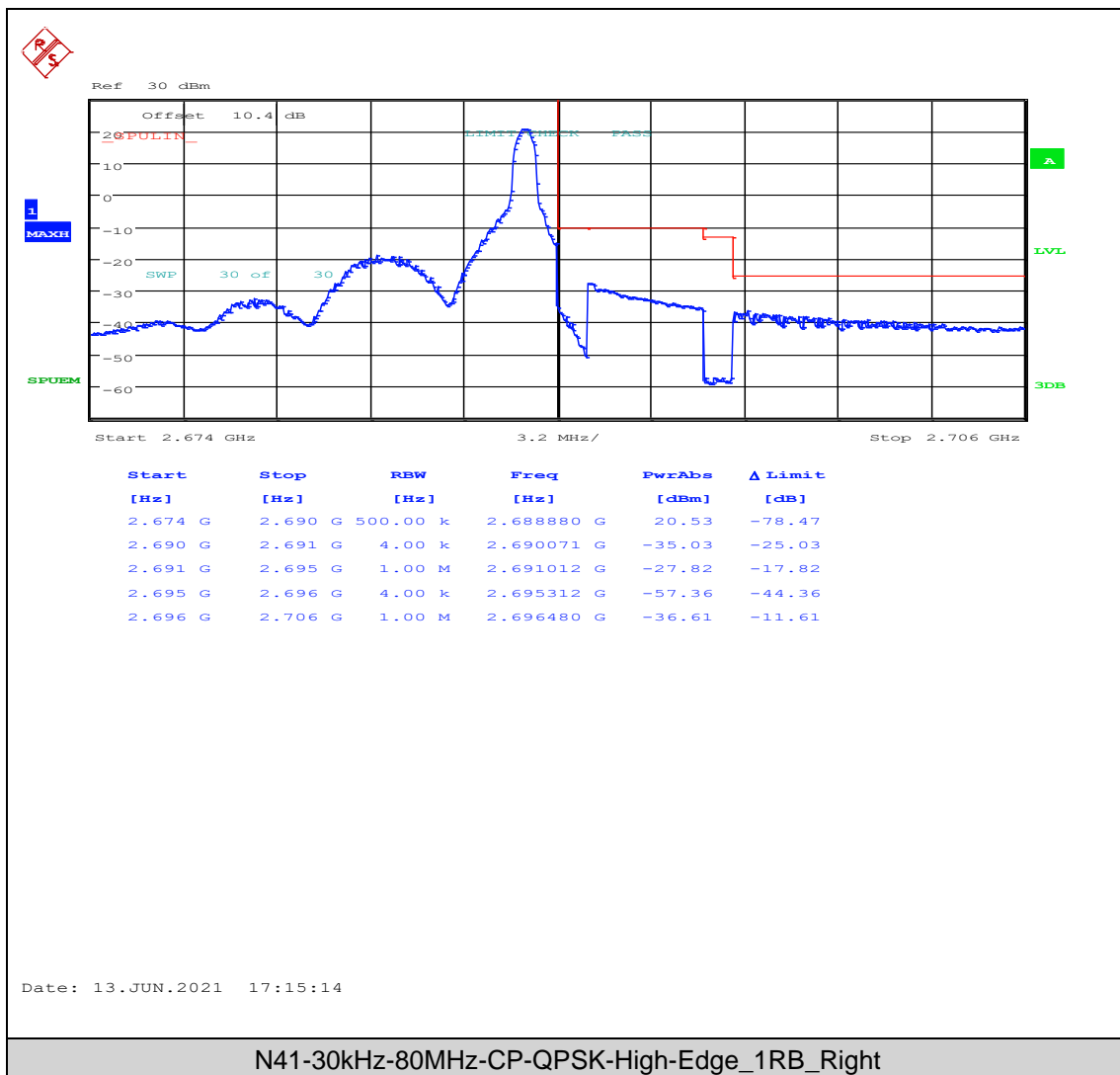


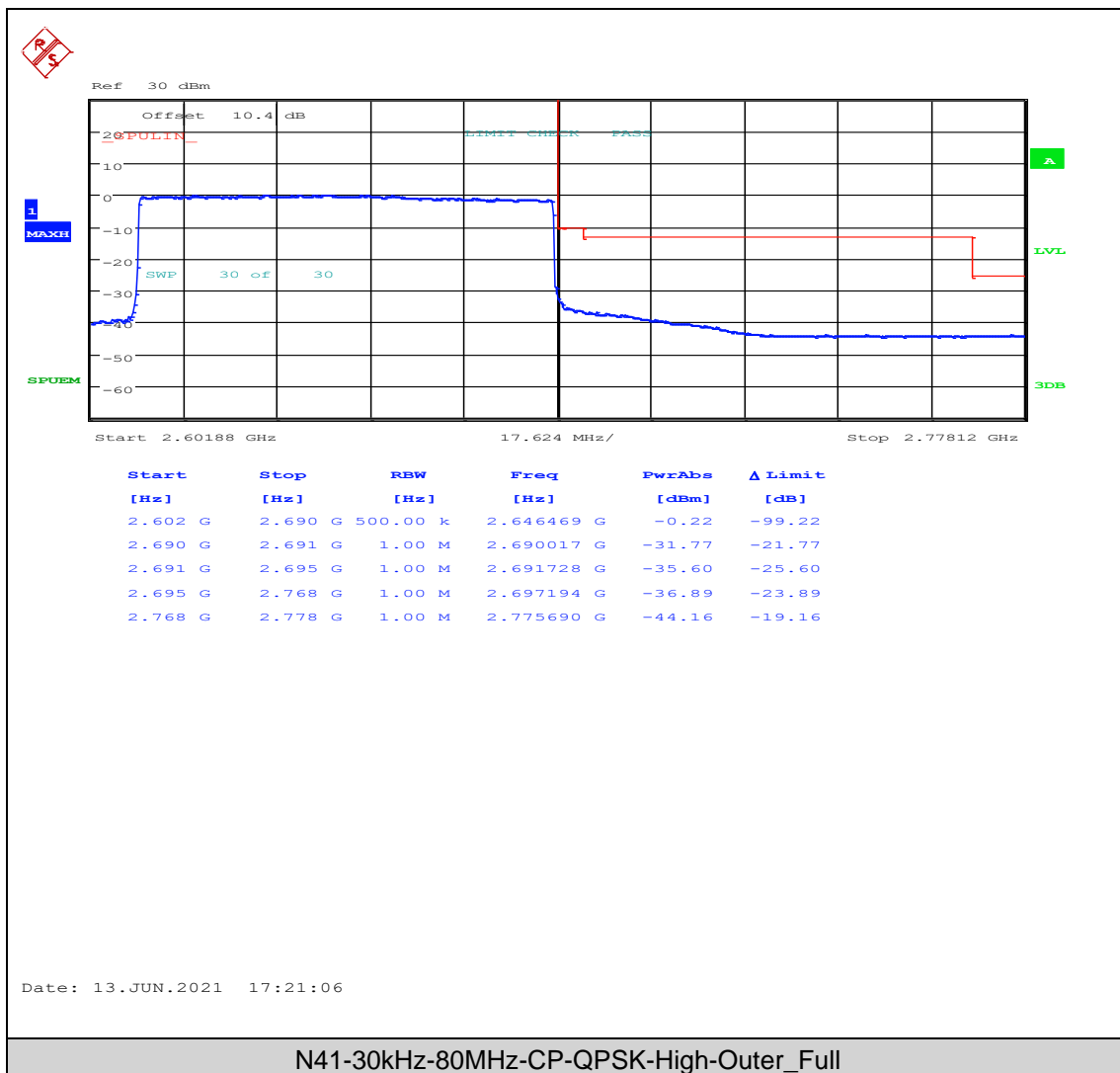








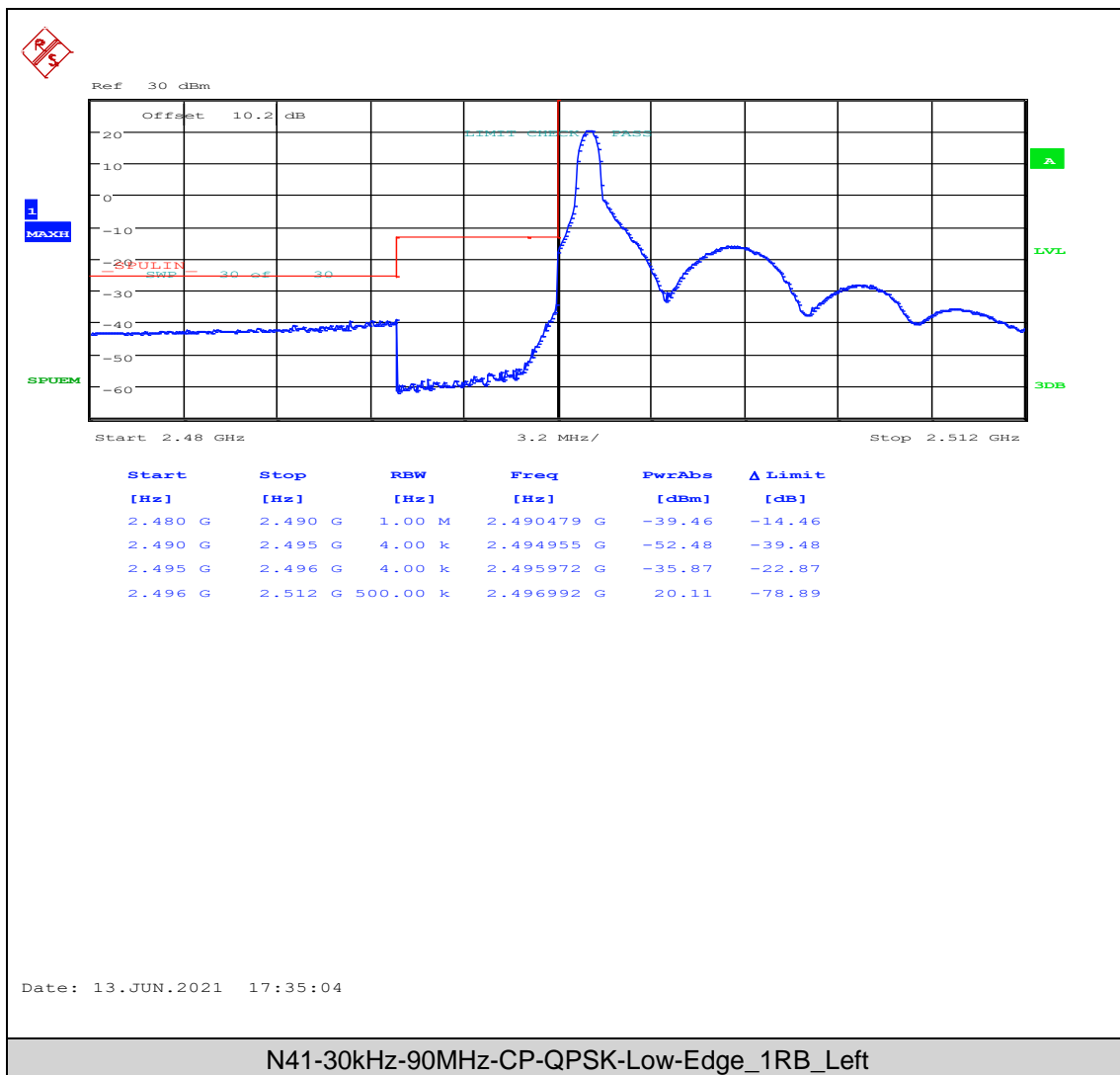


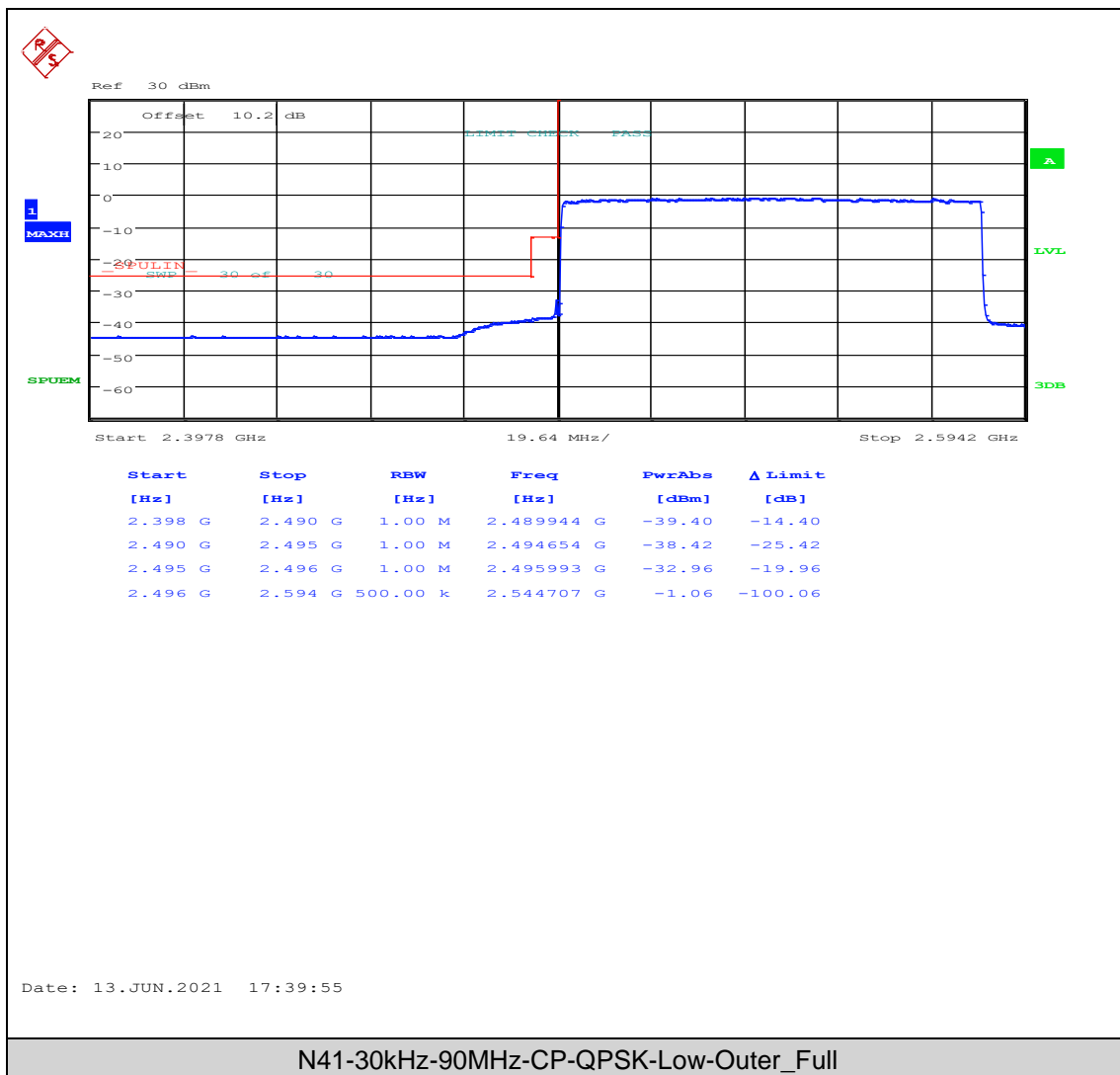


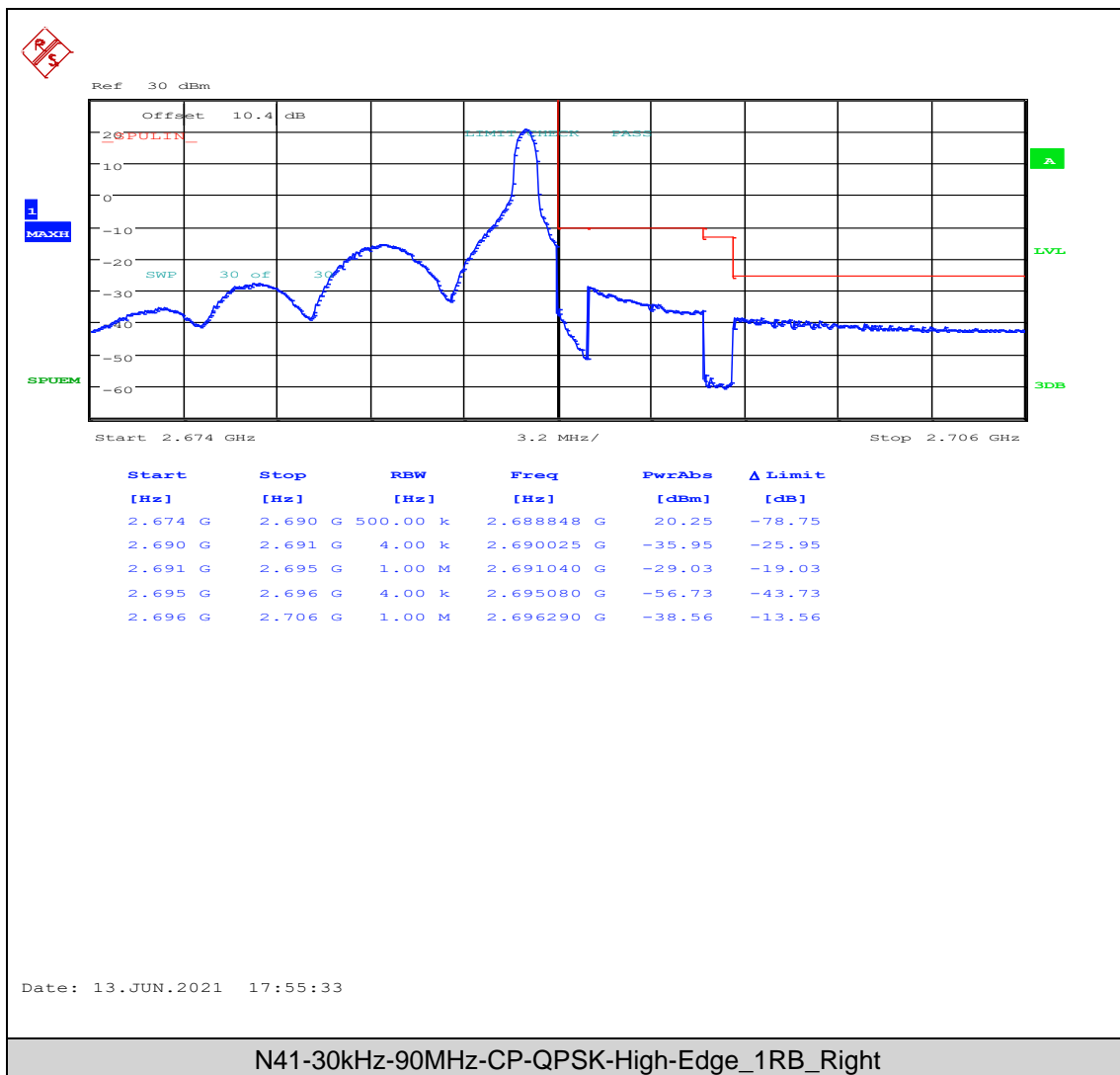
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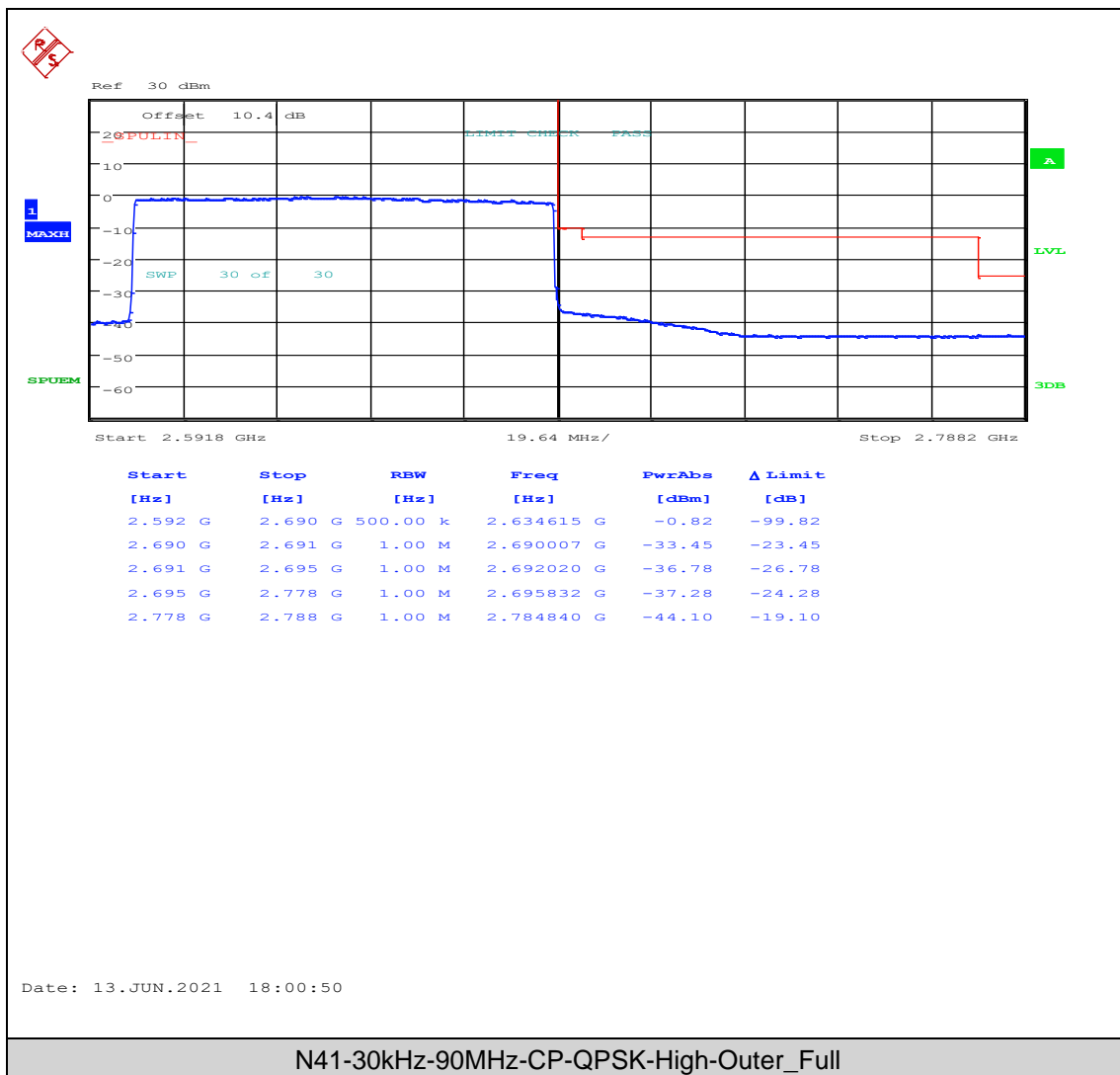
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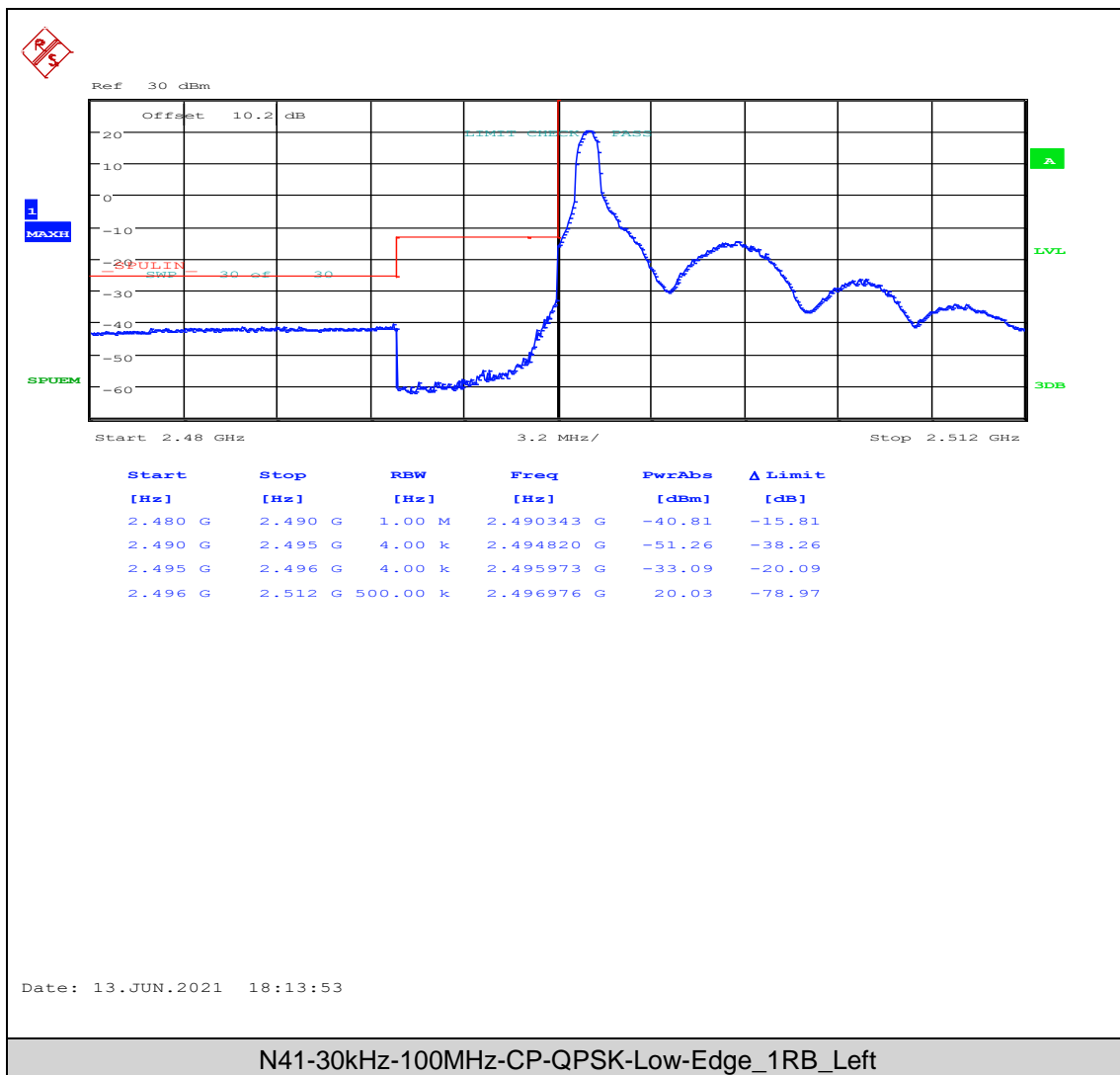
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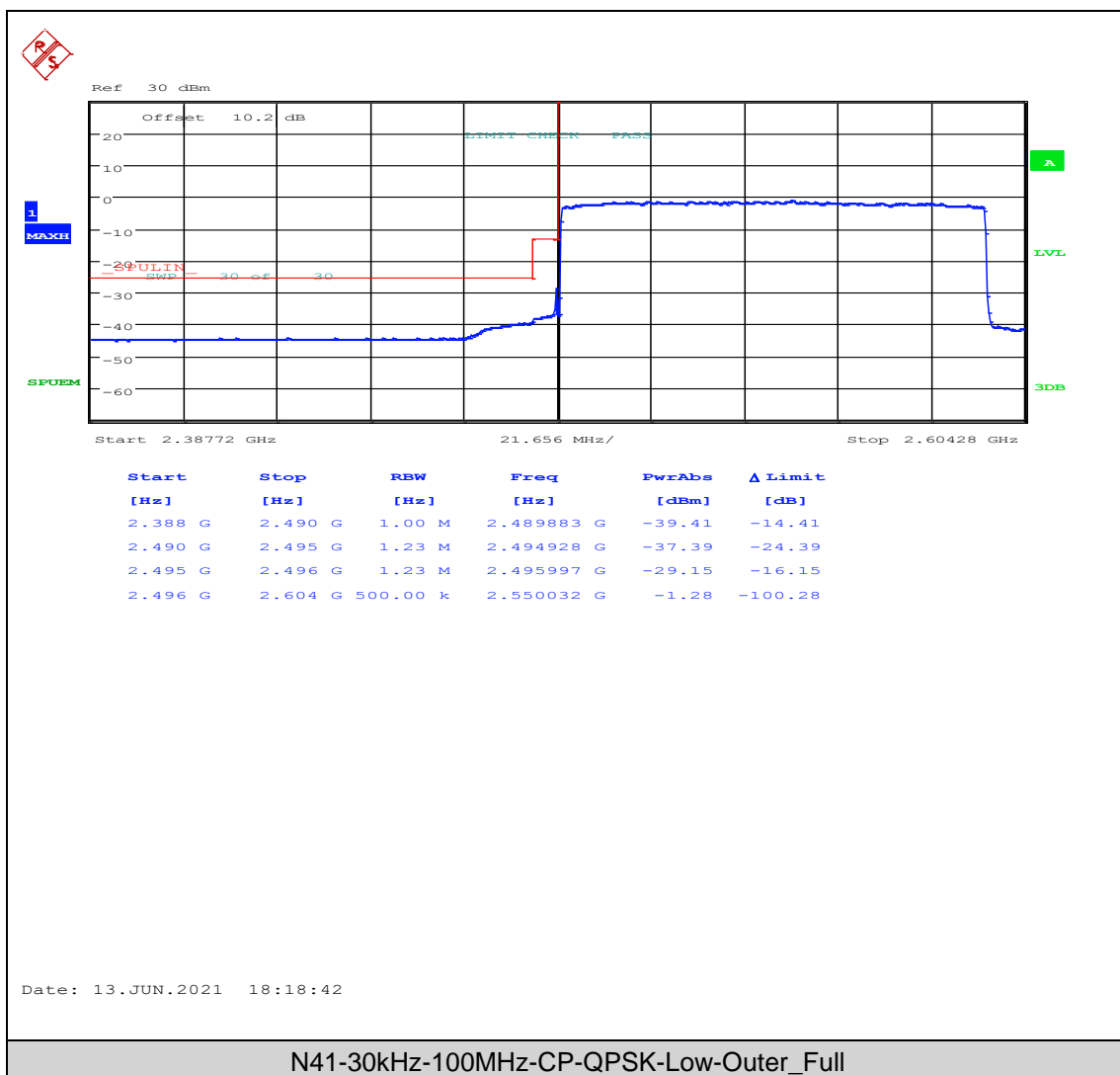


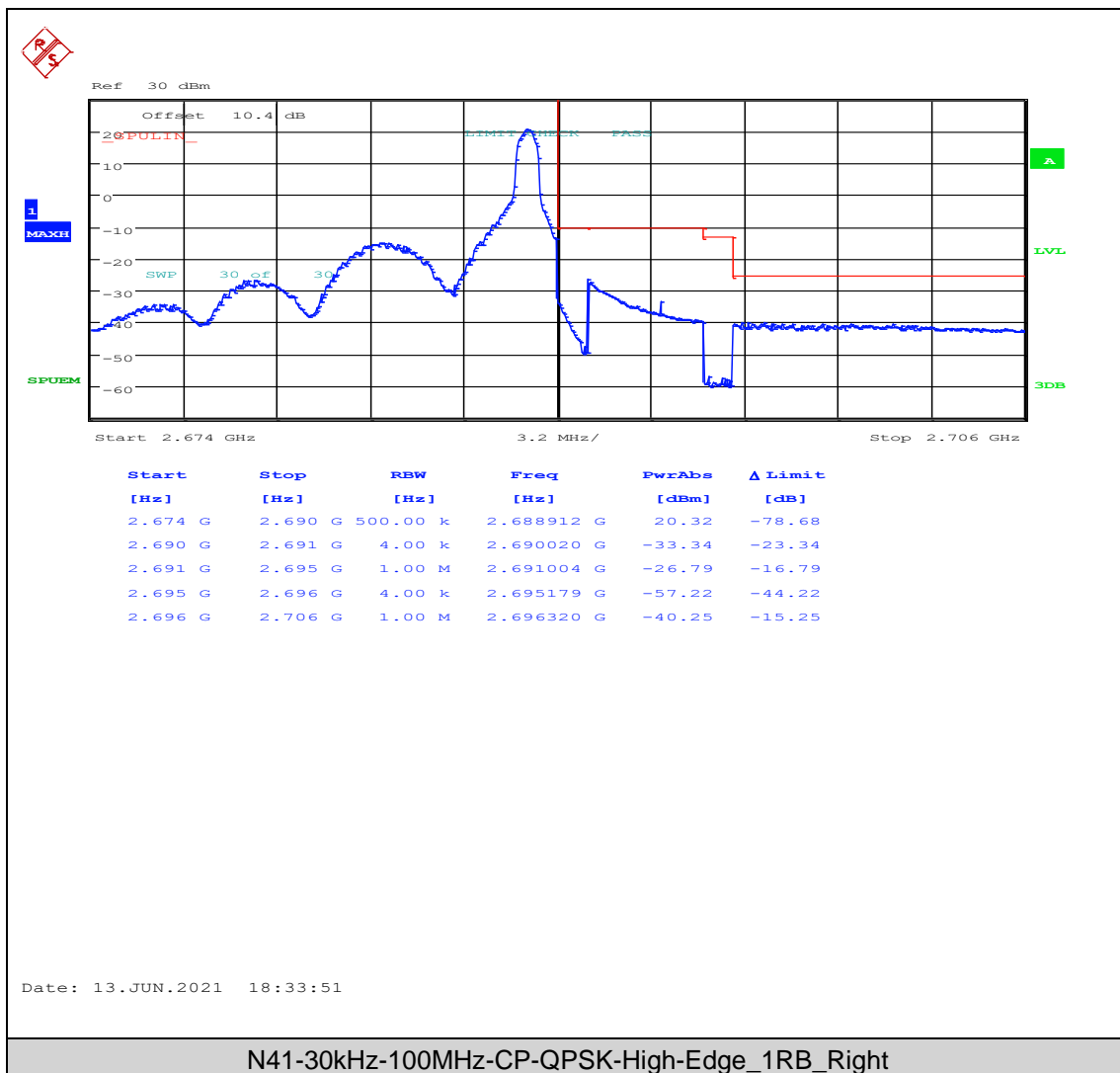


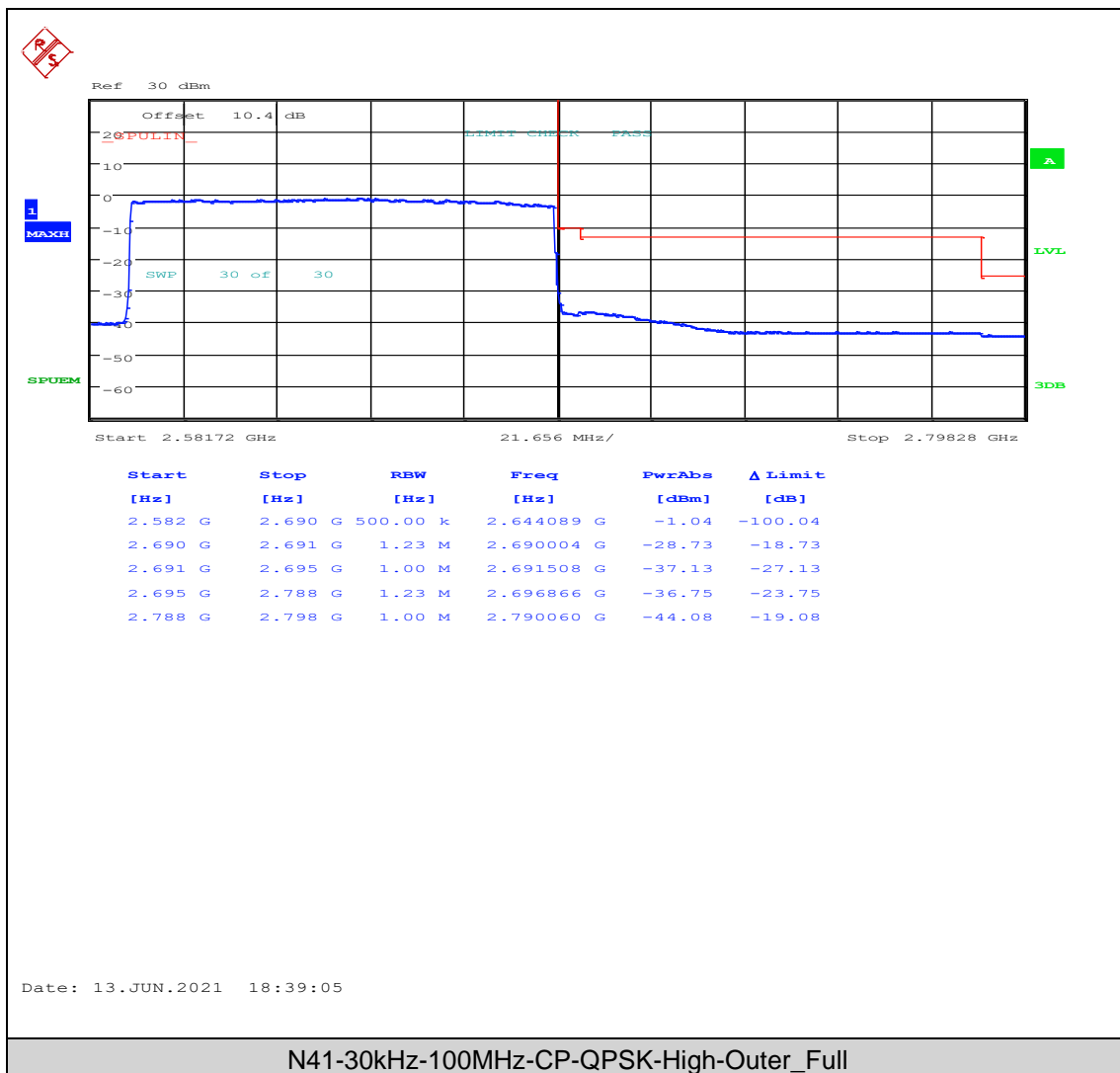












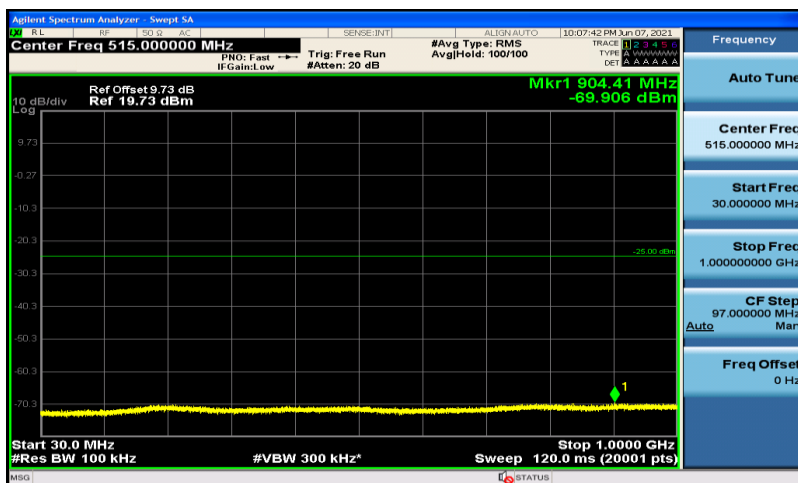
## REMARK:

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

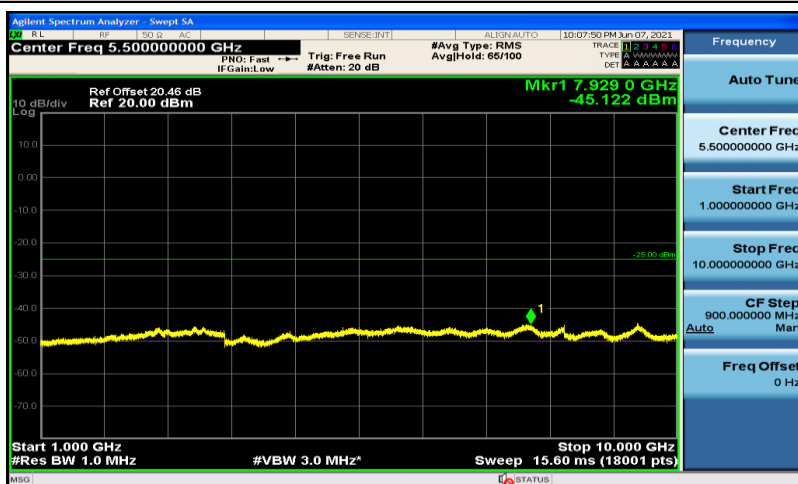
## Conducted Spurious Emission for SA

### Test Graphs

N41\_100M\_Low\_TM1\_Edge 1RB Left

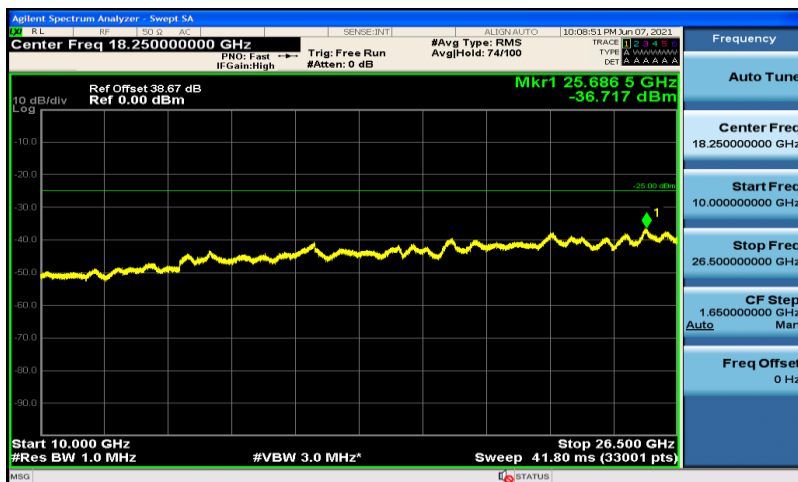


N41\_100M\_Low\_TM1\_Edge 1RB Left

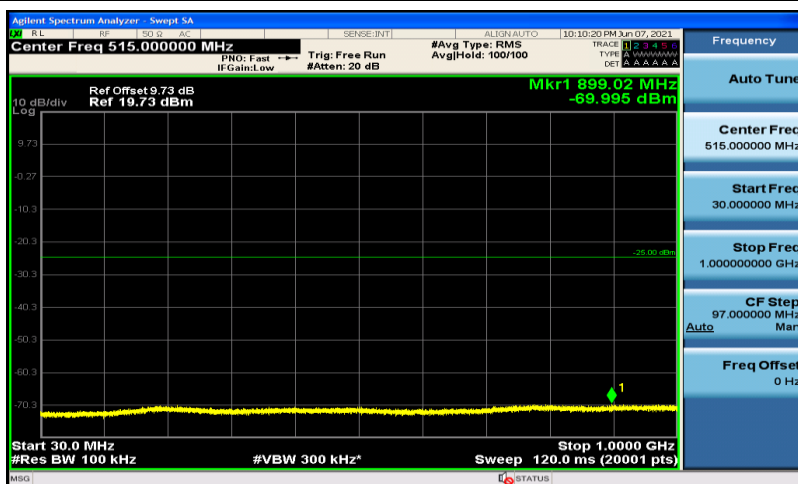




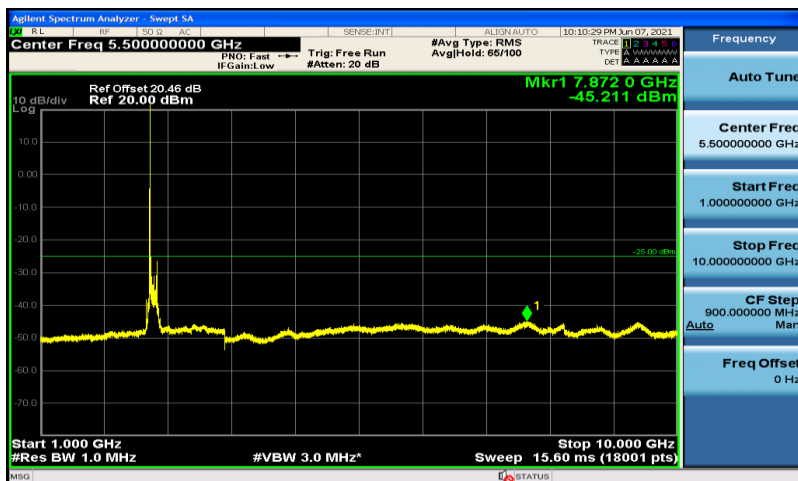
N41\_100M\_Low\_TM1\_Edge 1RB Left



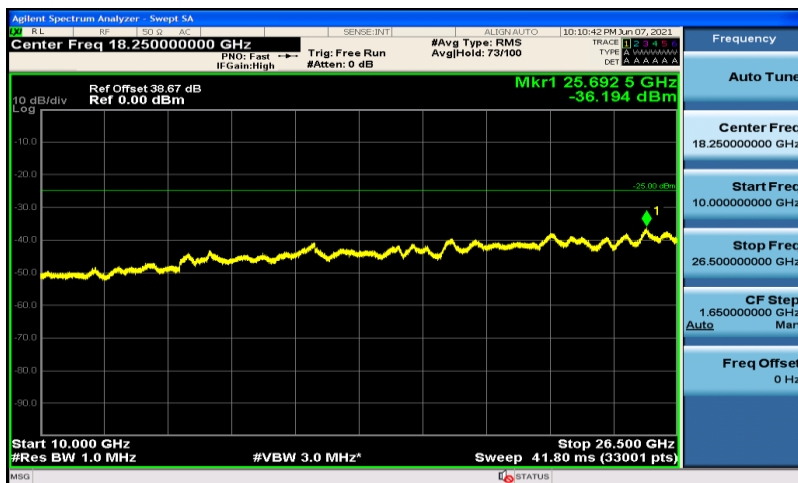
## N41\_100M\_Mid\_TM1\_Edge 1RB Left



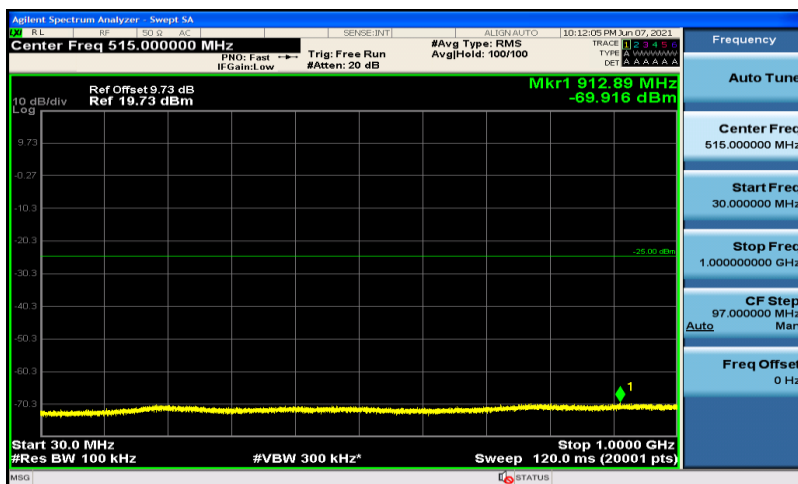
## N41\_100M\_Mid\_TM1\_Edge 1RB Left



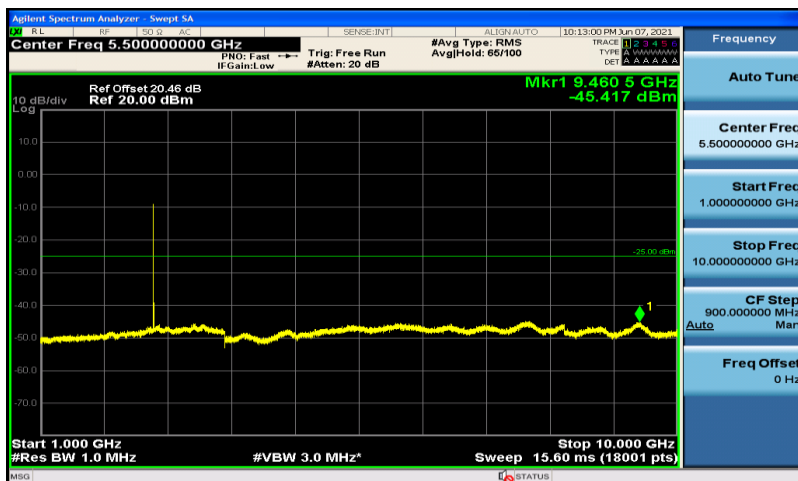
## N41\_100M\_Mid\_TM1\_Edge 1RB Left



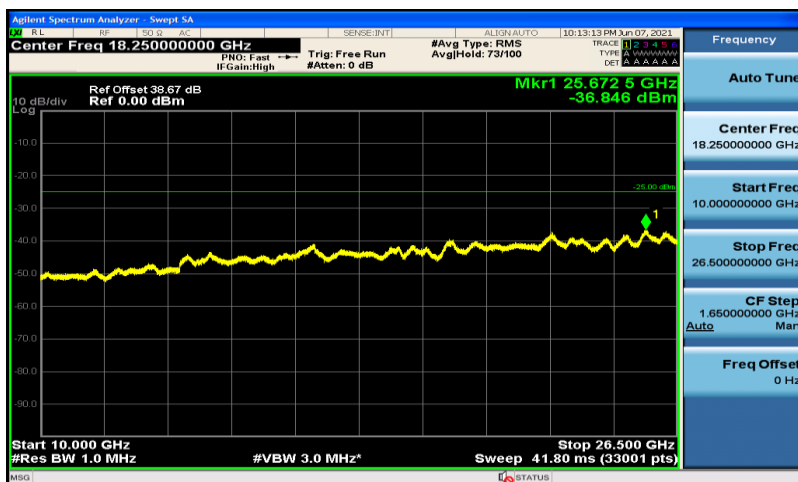
## N41\_100M\_High\_TM1\_Edge 1RB Left



## N41\_100M\_High\_TM1\_Edge 1RB Left



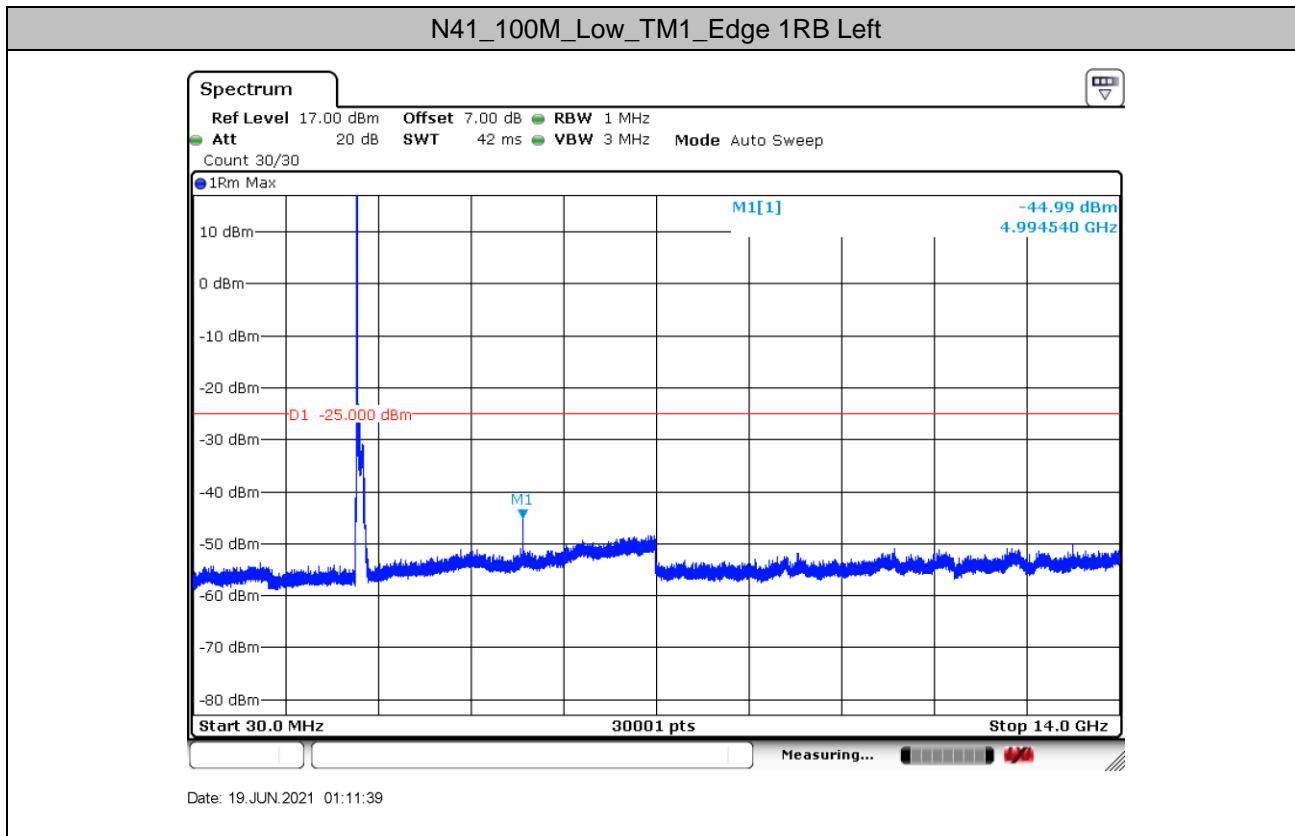
## N41\_100M\_High\_TM1\_Edge 1RB Left





MIMO:

Ant3:

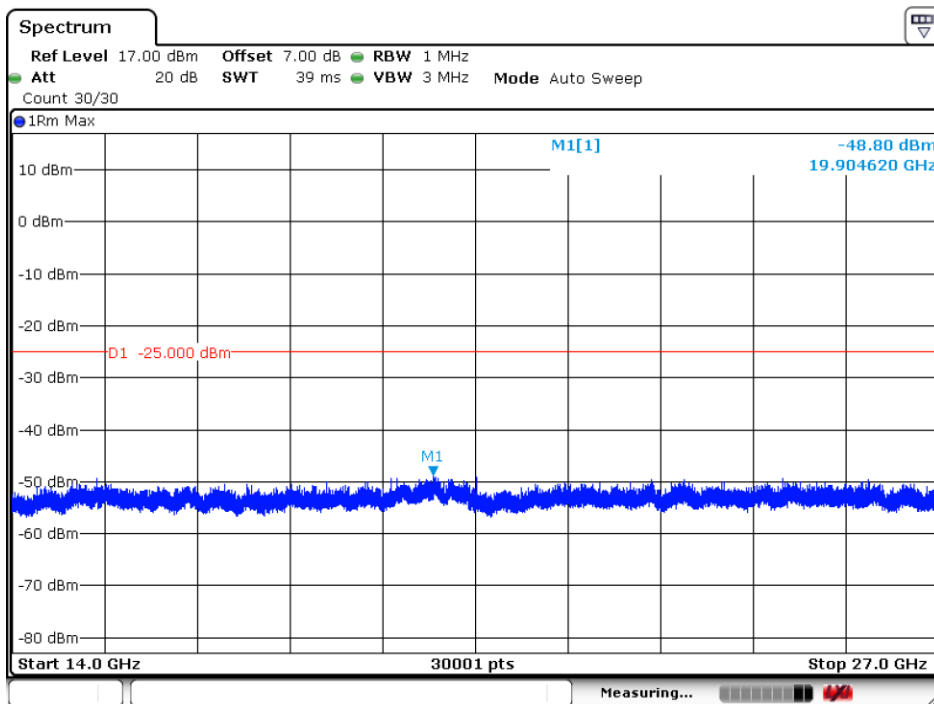


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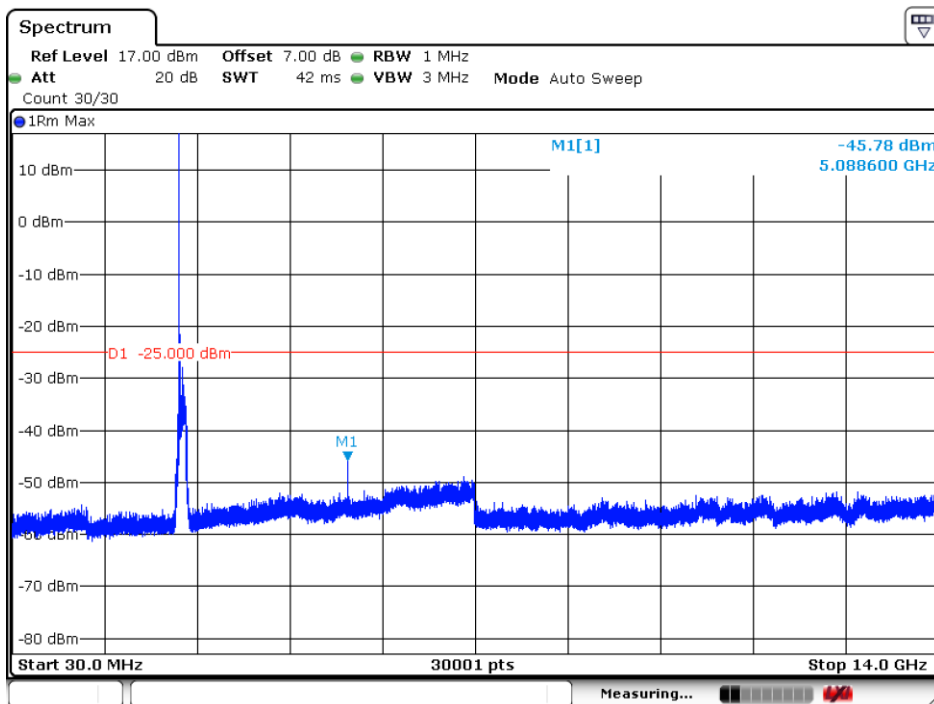
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## N41\_100M\_Low\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 01:19:58

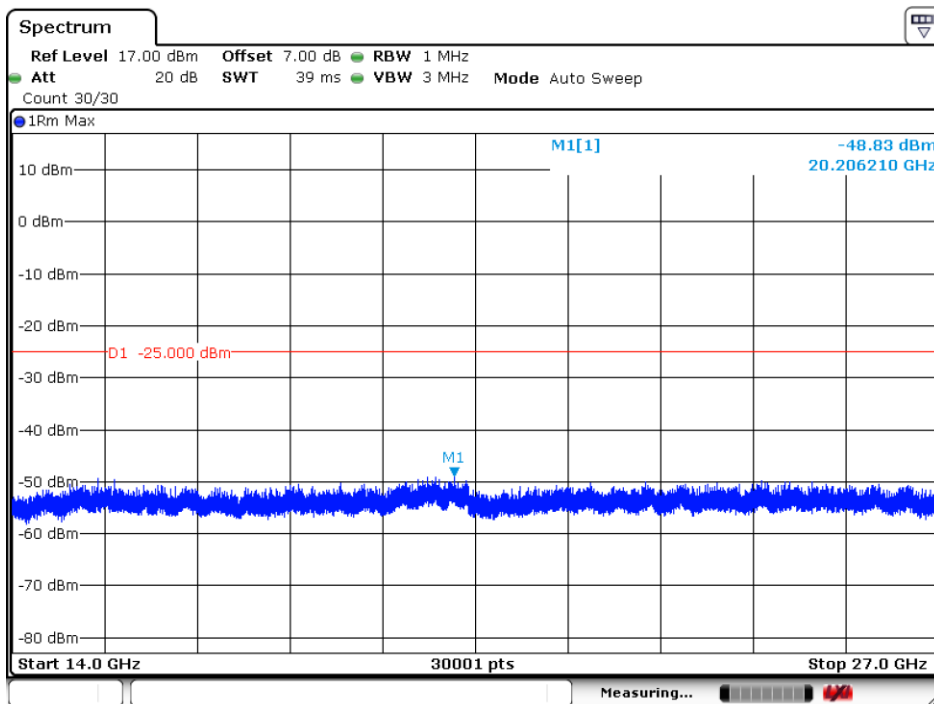
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Date: 19 JUN 2021 01:25:40

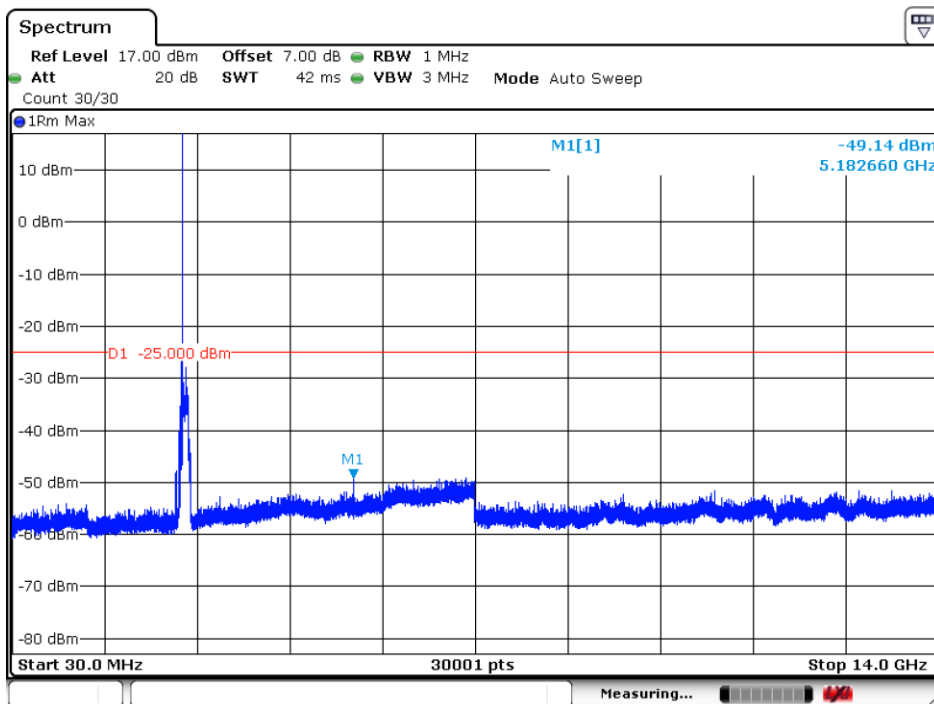


## N41\_100M\_Mid\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 01:24:54

## N41\_100M\_High\_TM1\_Edge 1RB Left

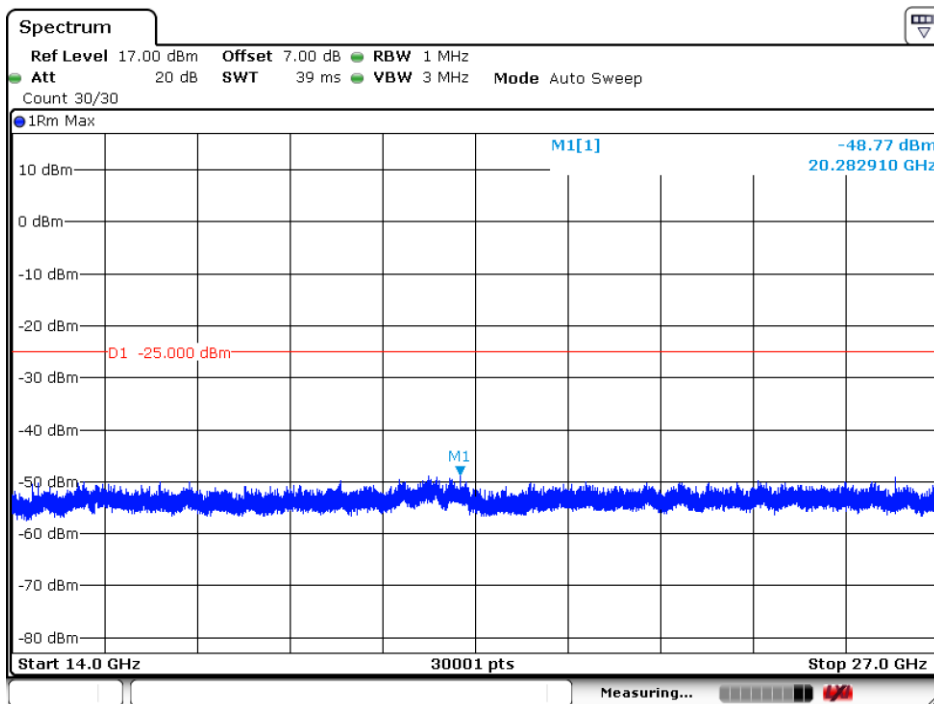


Date: 19 JUN 2021 02:32:27





N41\_100M\_High\_TM1\_Edge 1RB Left

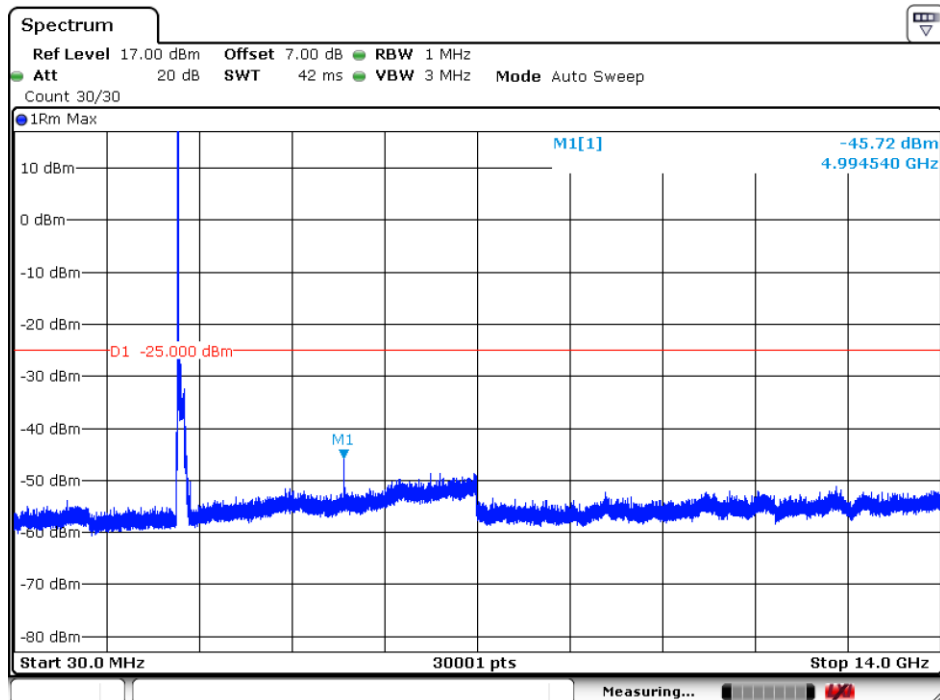


Date: 19 JUN 2021 02:34:09



**Ant8:**

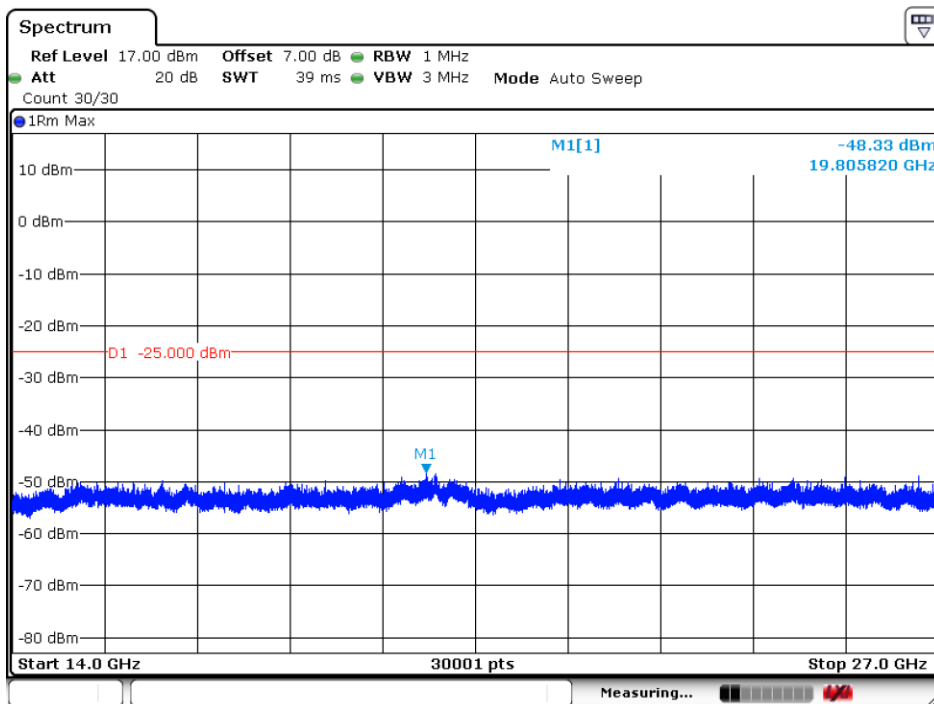
N41\_100M\_Low\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 01:18:00

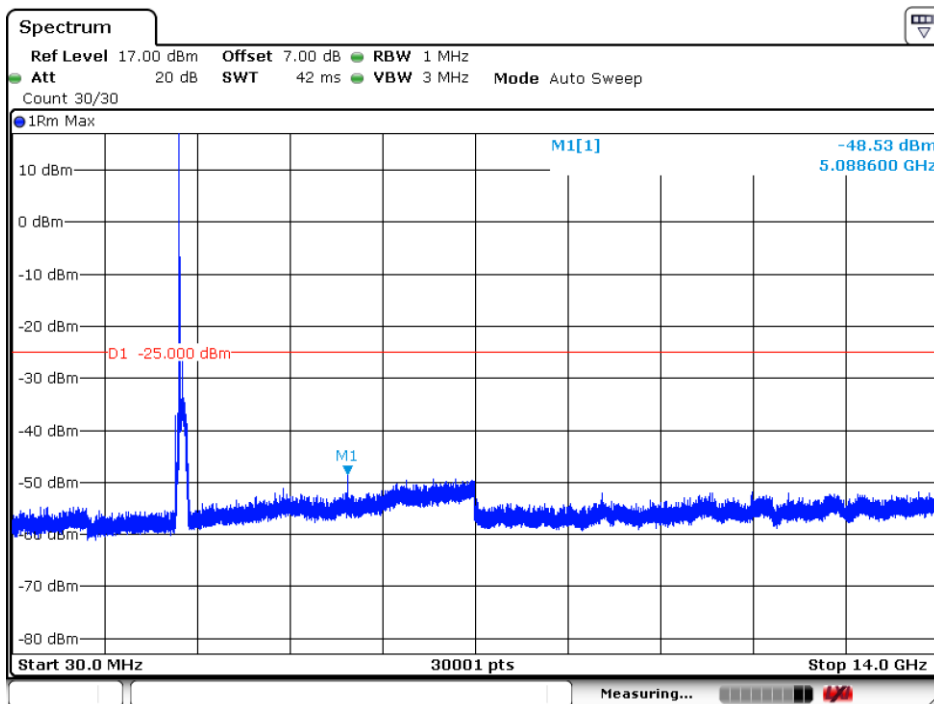


## N41\_100M\_Low\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 01:16:38

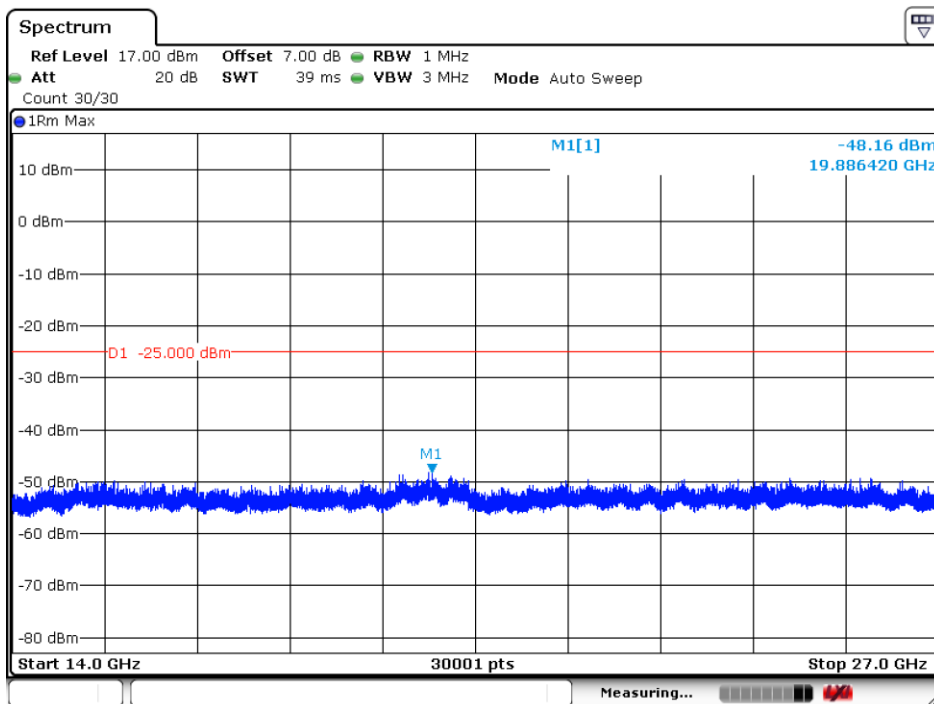
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Date: 19 JUN 2021 01:27:16

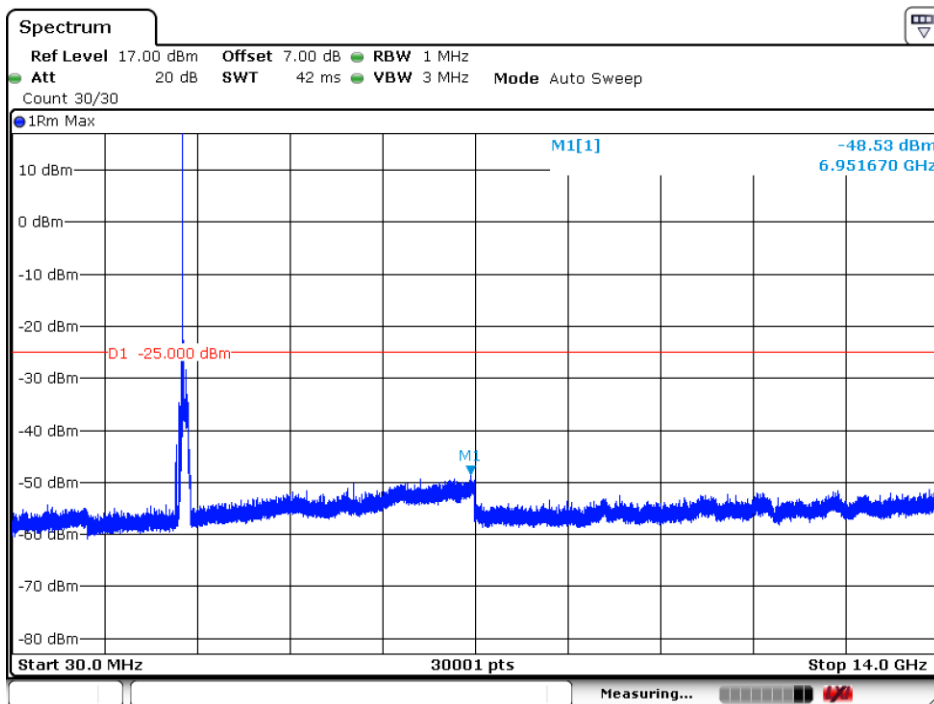


## N41\_100M\_Mid\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 02:21:26

## N41\_100M\_High\_TM1\_Edge 1RB Left

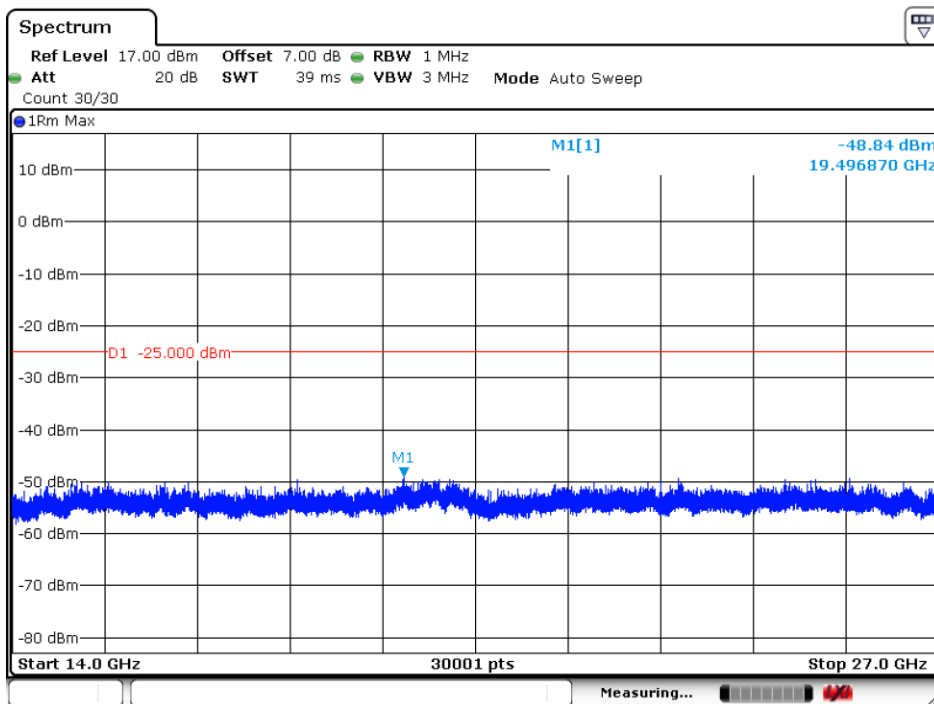


Date: 19 JUN 2021 02:27:38





N41\_100M\_High\_TM1\_Edge 1RB Left



Date: 19 JUN 2021 02:26:23





## Field Strength of Spurious Radiation

Test Band = \_N41 \_TM1

Test Channel = Low Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1037.0019	21.73	-49.05	-25.00	24.05	-70.78	Horizontal
2	1932.1466	21.89	-47.56	-25.00	22.56	-69.45	Horizontal
3	2952.3976	22.22	-42.49	-25.00	17.49	-64.71	Horizontal
4	4019.3010	51.34	-62.40	-25.00	37.40	-113.74	Horizontal
5	7876.7438	47.59	-54.34	-25.00	29.34	-101.93	Horizontal
6	17933.996	46.46	-46.43	-25.00	21.43	-92.89	Horizontal





Test Band = \_N41 \_TM1

Test Channel = Low Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1406.1203	23.91	-46.45	-25.00	21.45	-70.36	Vertical
2	2225.7613	22.23	-45.46	-25.00	20.46	-67.69	Vertical
3	3000.0000	21.86	-42.59	-25.00	17.59	-64.45	Vertical
4	4924.5962	49.44	-60.56	-25.00	35.56	-110.00	Vertical
5	7968.9985	50.99	-50.95	-25.00	25.95	-101.94	Vertical
6	17987.249	46.84	-46.77	-25.00	21.77	-93.61	Vertical



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Test Band = \_N41 \_TM1

Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1083.1042	21.75	-48.44	-25.00	23.44	-70.19	Horizontal
2	2085.8543	22.09	-46.57	-25.00	21.57	-68.66	Horizontal
3	2935.3968	22.17	-42.56	-25.00	17.56	-64.73	Horizontal
4	4152.0576	50.93	-61.88	-25.00	36.88	-112.81	Horizontal
5	9011.5506	46.88	-52.09	-25.00	27.09	-98.97	Horizontal
6	17982.749	47.77	-45.75	-25.00	20.75	-93.52	Horizontal



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Test Band = \_N41 \_TM1

Test Channel = Mid Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1170.5085	21.92	-48.33	-25.00	23.33	-70.25	Vertical
2	1988.0494	22.35	-46.45	-25.00	21.45	-68.80	Vertical
3	2998.5999	22.09	-42.40	-25.00	17.40	-64.49	Vertical
4	4531.5766	51.17	-60.66	-25.00	35.66	-111.83	Vertical
5	7968.9985	51.59	-50.35	-25.00	25.35	-101.94	Vertical
6	17998.499	47.33	-46.52	-25.00	21.52	-93.85	Vertical



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Test Band = \_N41 \_TM1

Test Channel = High Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1406.2203	23.25	-47.11	-25.00	22.11	-70.36	Vertical
2	1718.6359	23.42	-46.72	-25.00	21.72	-70.14	Vertical
3	2981.7991	22.33	-42.39	-25.00	17.39	-64.72	Vertical
4	4941.8471	49.56	-60.26	-25.00	35.26	-109.82	Vertical
5	7968.9985	51.64	-50.30	-25.00	25.30	-101.94	Vertical
6	17928.746	46.75	-46.15	-25.00	21.15	-92.90	Vertical



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Test Band = \_N41 \_TM1

Test Channel = High Channel

Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	32.4736	38.83	-60.44	-25.00	35.44	-99.27	Horizontal
2	44.0657	35.68	-61.34	-25.00	36.34	-97.02	Horizontal
3	103.3842	33.98	-64.30	-25.00	39.30	-98.28	Horizontal
4	194.2777	28.39	-69.92	-25.00	44.92	-98.31	Horizontal
5	366.6068	29.01	-63.78	-25.00	38.78	-92.79	Horizontal
6	929.2835	24.31	-57.89	-25.00	32.89	-82.20	Horizontal





## MIMO:

Test Band = \_N41 \_TM1

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1188.7094	22.02	-48.49	-25.00	23.49	Horizontal
2	2766.8883	22.13	-43.75	-25.00	18.75	Horizontal
3	5712.8856	48.79	-58.28	-25.00	33.28	Horizontal
4	8822.5411	47.59	-52.18	-25.00	27.18	Horizontal
5	13358.017	45.36	-47.40	-25.00	22.40	Horizontal
6	16400.170	46.33	-47.41	-25.00	22.41	Horizontal





Test Band = \_N41 \_TM1

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1171.4086	22.25	-48.03	-25.00	23.03	Vertical
2	2820.9911	22.15	-43.40	-25.00	18.40	Vertical
3	5676.8838	48.70	-58.38	-25.00	33.38	Vertical
4	8800.7900	46.86	-52.80	-25.00	27.80	Vertical
5	14239.312	44.28	-47.79	-25.00	22.79	Vertical
6	16413.670	46.44	-47.55	-25.00	22.55	Vertical



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Test Band = \_N41 \_TM1

Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1713.6357	29.72	-40.48	-25.00	15.48	Horizontal
2	2997.1999	29.99	-34.55	-25.00	9.55	Horizontal
3	5553.8777	49.58	-58.31	-25.00	33.31	Horizontal
4	11213.6607	46.42	-49.28	-25.00	24.28	Horizontal
5	13368.518	44.91	-47.75	-25.00	22.75	Horizontal
6	16405.420	46.28	-47.56	-25.00	22.56	Horizontal





Test Band = \_N41 \_TM1

Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1562.3281	23.25	-47.12	-25.00	22.12	Vertical
2	2967.4984	22.30	-42.59	-25.00	17.59	Vertical
3	5652.8826	49.51	-57.87	-25.00	32.87	Vertical
4	8998.0499	46.91	-52.03	-25.00	27.03	Vertical
5	13345.267	45.11	-47.70	-25.00	22.70	Vertical
6	16392.669	46.69	-47.20	-25.00	22.20	Vertical





Test Band = \_N41 \_TM1

Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1460.5230	22.30	-47.86	-25.00	22.86	Horizontal
2	2940.1970	22.46	-42.29	-25.00	17.29	Horizontal
3	7476.9738	48.08	-54.14	-25.00	29.14	Horizontal
4	10616.630	46.35	-50.50	-25.00	25.50	Horizontal
5	13363.268	44.93	-47.78	-25.00	22.78	Horizontal
6	16415.170	47.08	-46.94	-25.00	21.94	Horizontal



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Test Band = \_N41 \_TM1

Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1134.7067	21.96	-48.74	-25.00	23.74	Vertical
2	2922.1961	21.91	-42.93	-25.00	17.93	Vertical
3	7968.2484	48.42	-53.52	-25.00	28.52	Vertical
4	11149.1575	45.87	-49.67	-25.00	24.67	Vertical
5	15012.600	44.46	-47.16	-25.00	22.16	Vertical
6	16409.920	46.07	-47.85	-25.00	22.85	Vertical

REMARK:

- 1) All antenna and all modulation (SA+NSA) had been tested, but only the worst case data displayed in this report.



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## Frequency Stability for SA

### 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	-12.52	-0.00492	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	NT	4.11	0.00161	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VH	NT	-0.60	-0.00024	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VL	NT	11.14	0.00430	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	NT	8.94	0.00345	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VH	NT	-0.45	-0.00017	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VL	NT	-5.33	-0.00202	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	NT	6.65	0.00252	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VH	NT	8.46	0.00320	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VL	NT	-11.75	-0.00462	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	NT	7.87	0.00309	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VH	NT	1.37	0.00054	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VL	NT	-7.82	-0.00302	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	NT	2.34	0.00090	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VH	NT	-2.27	-0.00088	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VL	NT	1.09	0.00041	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	NT	11.65	0.00441	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VH	NT	2.25	0.00085	±2.5	PASS





## 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	10.46	0.00411	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	-20	3.00	0.00118	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	-10	8.50	0.00334	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	0	12.55	0.00493	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	10	3.03	0.00119	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	20	8.23	0.00323	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	30	-6.74	-0.00265	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	40	13.75	0.00540	±2.5	PASS
N41	30KHz	100MHz	TM1	509202	Outer Full	VN	50	3.32	0.00130	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-30	7.96	0.00307	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-20	6.04	0.00233	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	-10	-7.59	-0.00293	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	0	-4.89	-0.00189	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	10	8.46	0.00326	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	20	-0.48	-0.00019	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	30	-10.33	-0.00398	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	40	14.17	0.00546	±2.5	PASS
N41	30KHz	100MHz	TM1	518598	Outer Full	VN	50	3.73	0.00144	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-30	-10.12	-0.00383	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-20	11.69	0.00443	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	-10	8.87	0.00336	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	0	3.65	0.00138	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	10	11.67	0.00442	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	20	14.89	0.00564	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	30	-0.75	-0.00028	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	40	11.04	0.00418	±2.5	PASS
N41	30KHz	100MHz	TM1	528000	Outer Full	VN	50	7.22	0.00273	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	-30	12.93	0.00508	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	-20	4.15	0.00163	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	-10	-7.98	-0.00313	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	0	14.55	0.00571	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	10	1.88	0.00074	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	20	-3.37	-0.00132	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	30	7.84	0.00308	±2.5	PASS





N41	30KHz	100MHz	TM5	509202	Outer Full	VN	40	-4.44	-0.00174	±2.5	PASS
N41	30KHz	100MHz	TM5	509202	Outer Full	VN	50	6.80	0.00267	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	-30	12.63	0.00487	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	-20	6.32	0.00244	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	-10	9.53	0.00368	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	0	10.05	0.00388	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	10	9.95	0.00384	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	20	-5.76	-0.00222	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	30	6.50	0.00251	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	40	9.88	0.00381	±2.5	PASS
N41	30KHz	100MHz	TM5	518598	Outer Full	VN	50	-2.47	-0.00095	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	-30	0.96	0.00036	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	-20	4.16	0.00158	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	-10	-2.34	-0.00089	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	0	2.24	0.00085	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	10	8.87	0.00336	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	20	-3.47	-0.00131	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	30	-4.98	-0.00189	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	40	-6.96	-0.00264	±2.5	PASS
N41	30KHz	100MHz	TM5	528000	Outer Full	VN	50	-3.92	-0.00148	±2.5	PASS

REMARK:

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

The End



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