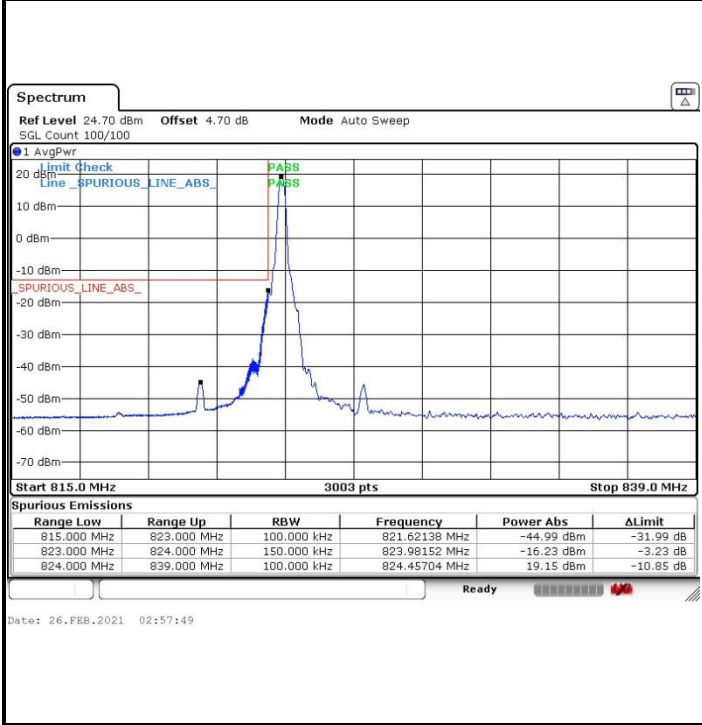


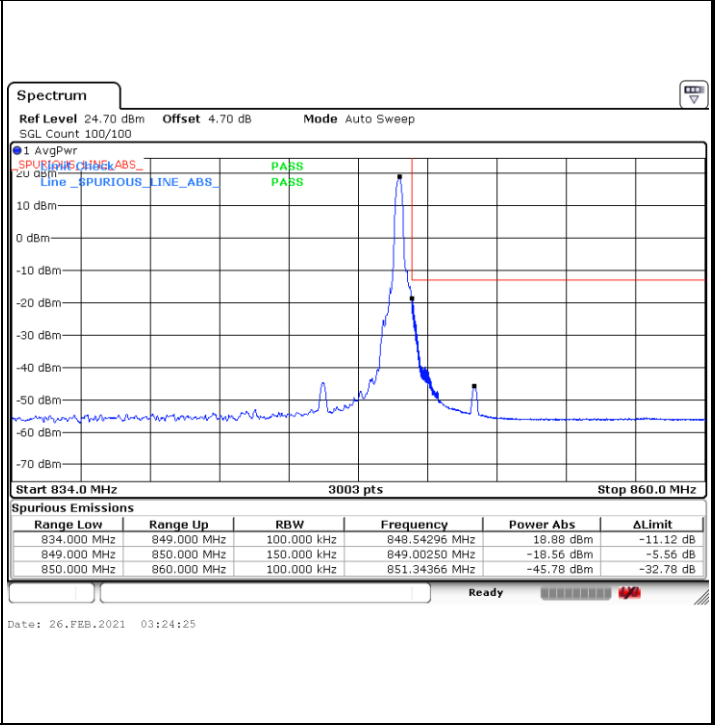


n26 BW15MHz

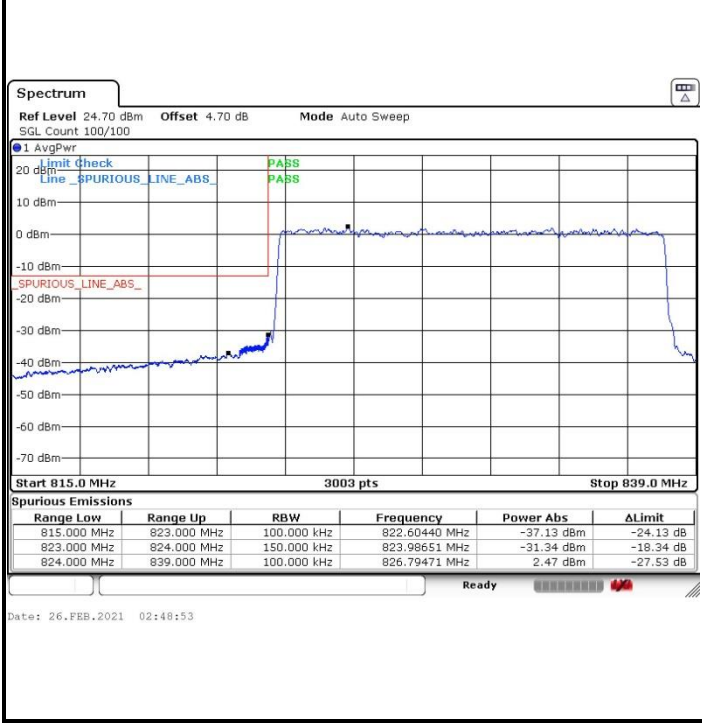
BPSK-1RB-L



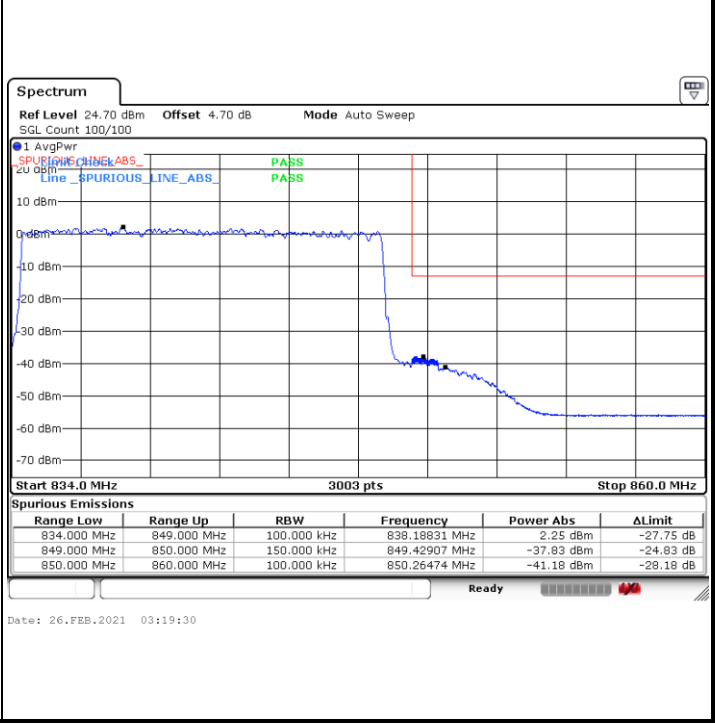
BPSK-1RB-H



BPSK-FULLRB-L



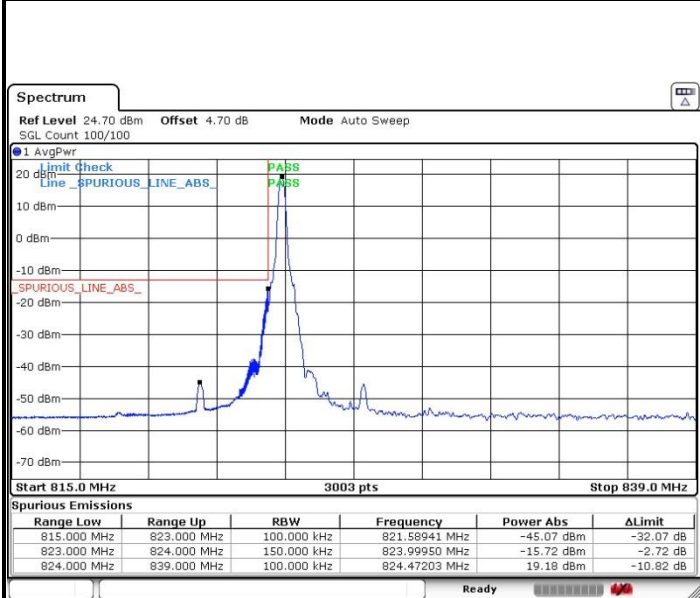
BPSK-FULLRB-H





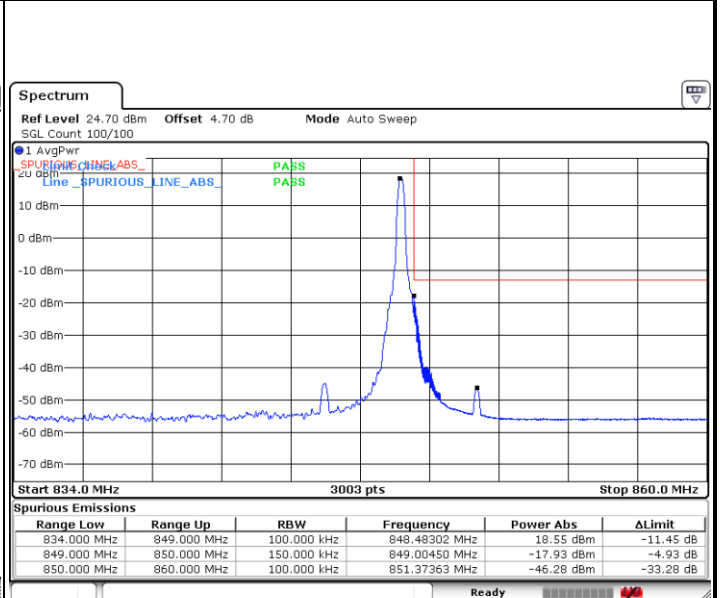
n26 BW15MHz

QPSK-1RB-L



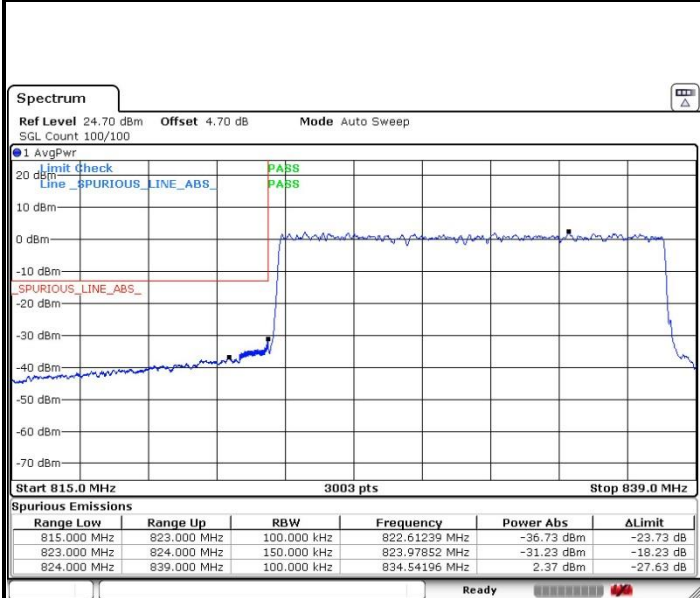
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QPSK-1RB-H



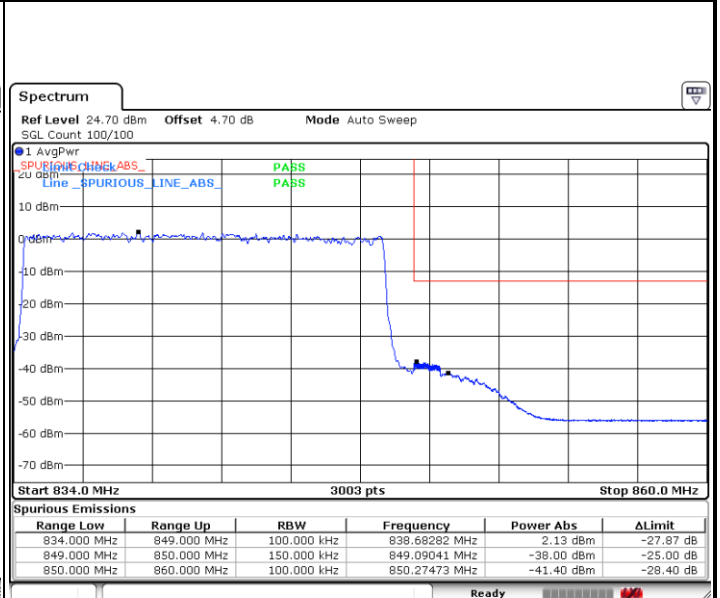
Date: 26.FEB.2021 03:24:58

QPSK-FULLRB-L



Date: 26.FEB.2021 02:49:48

QPSK-FULLRB-H

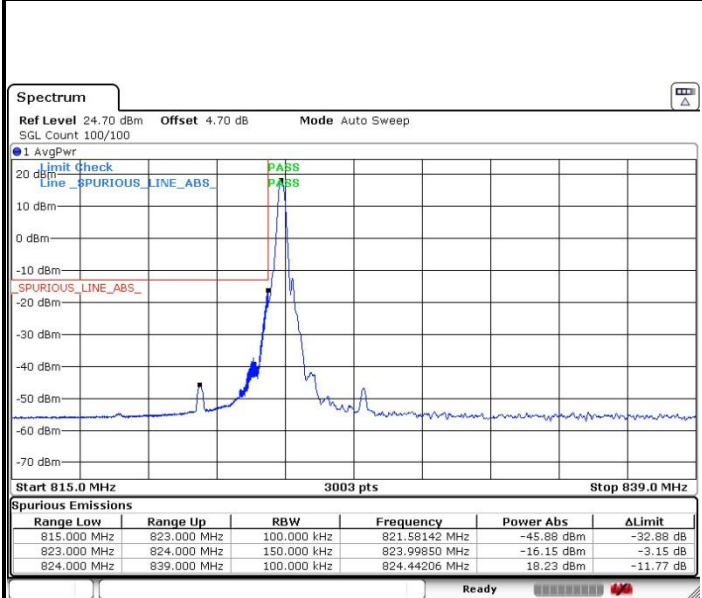


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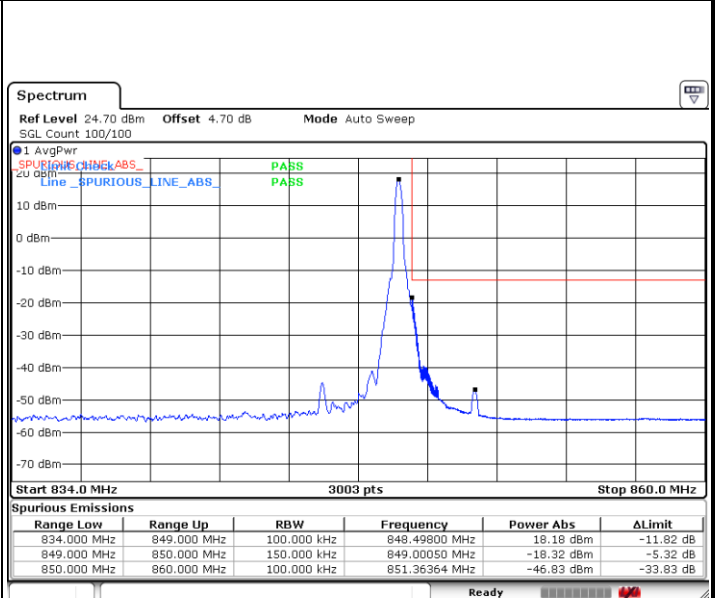
n26 BW15MHz

16QAM-1RB-L



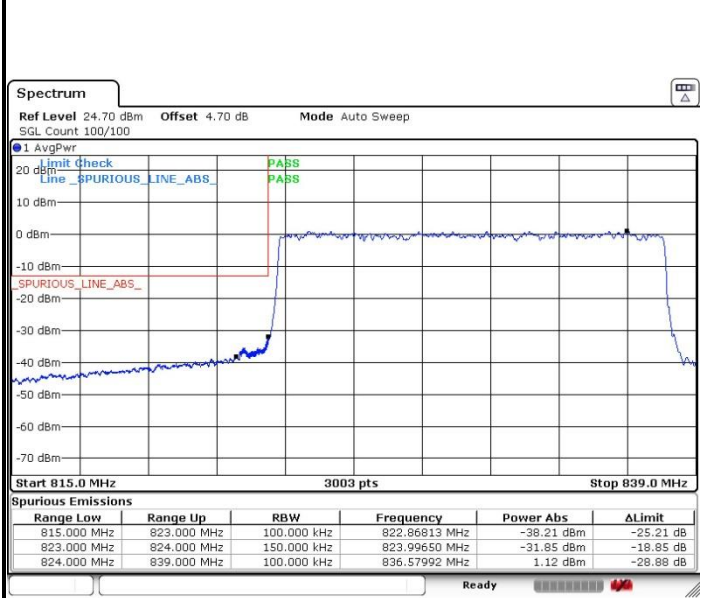
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16QAM-1RB-H



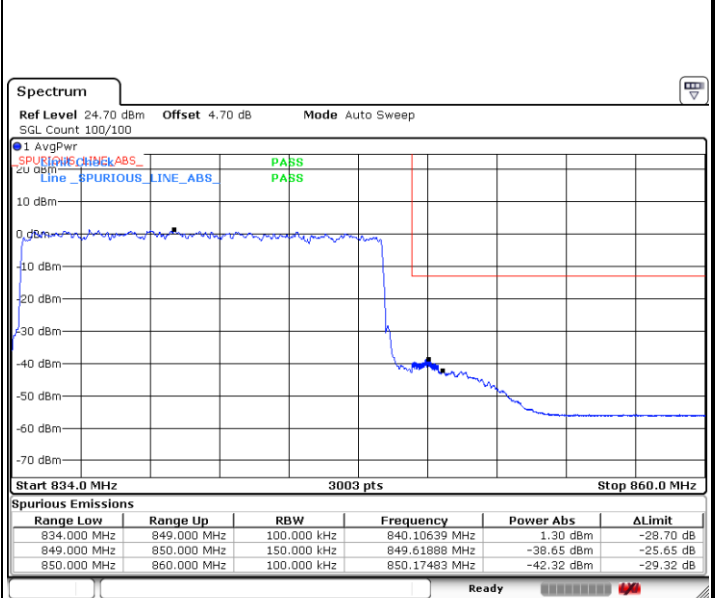
Date: 26.FEB.2021 03:25:33

16QAM-FULLRB-L



Date: 26.FEB.2021 02:50:50

16QAM-FULLRB-H



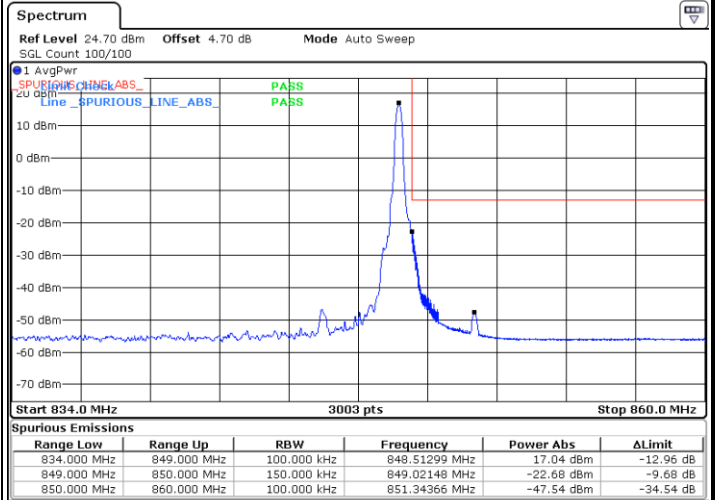
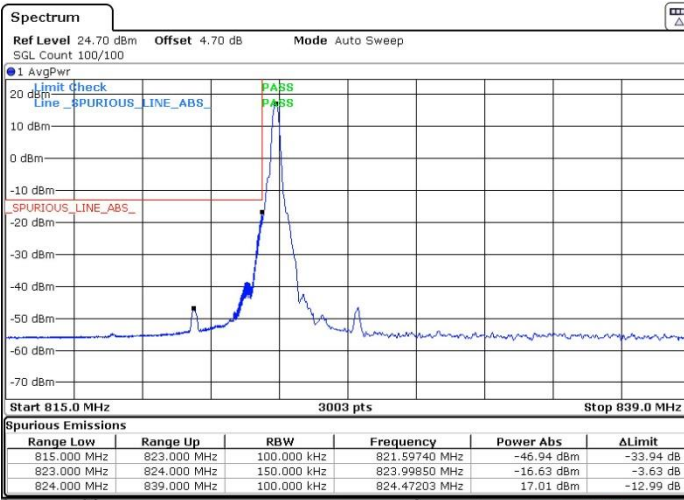
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n26 BW15MHz

64QAM-1RB-L

64QAM-1RB-H

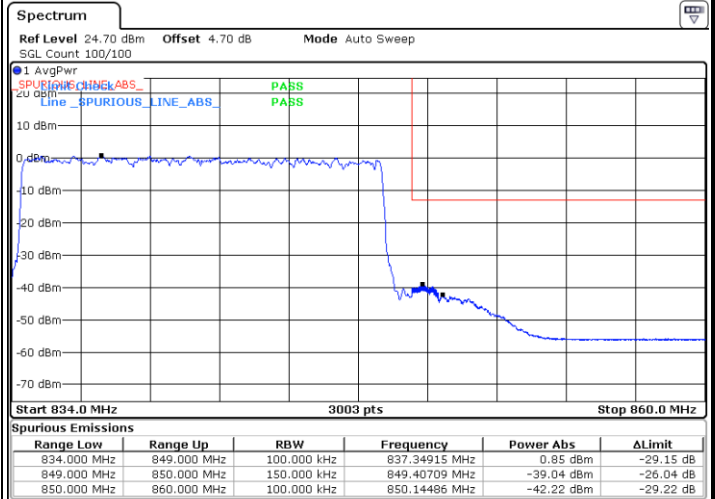
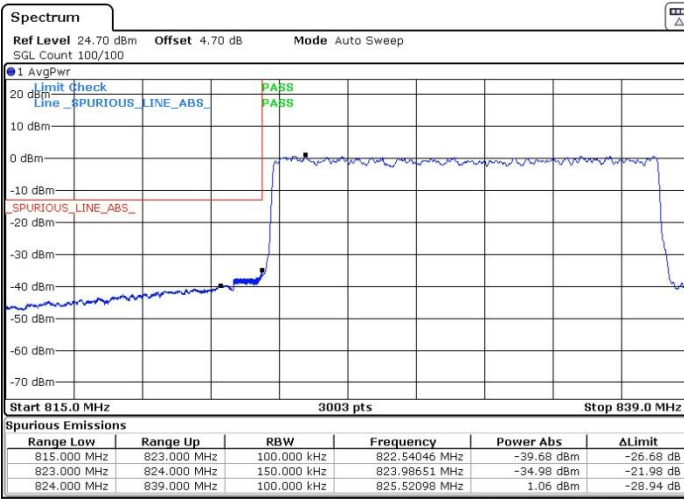


Date: 26.FEB.2021 03:17:02

Date: 26.FEB.2021 03:26:10

64QAM-FULLRB-L

64QAM-FULLRB-H



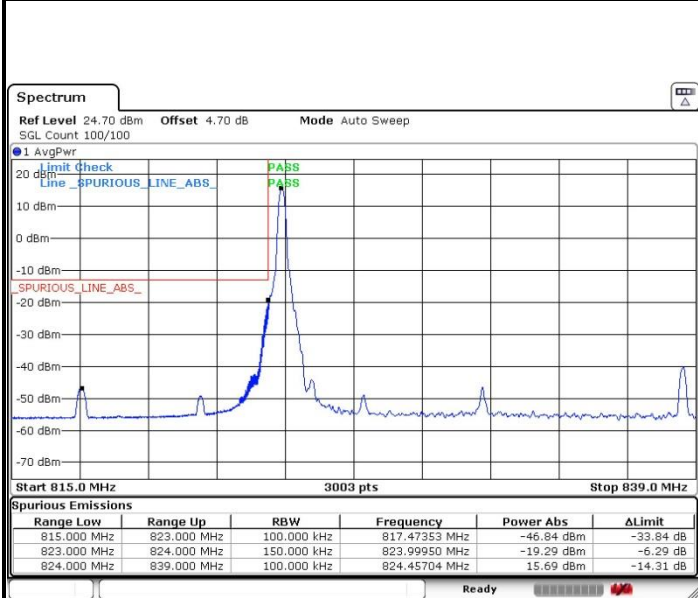
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Date: 26.FEB.2021 03:22:21



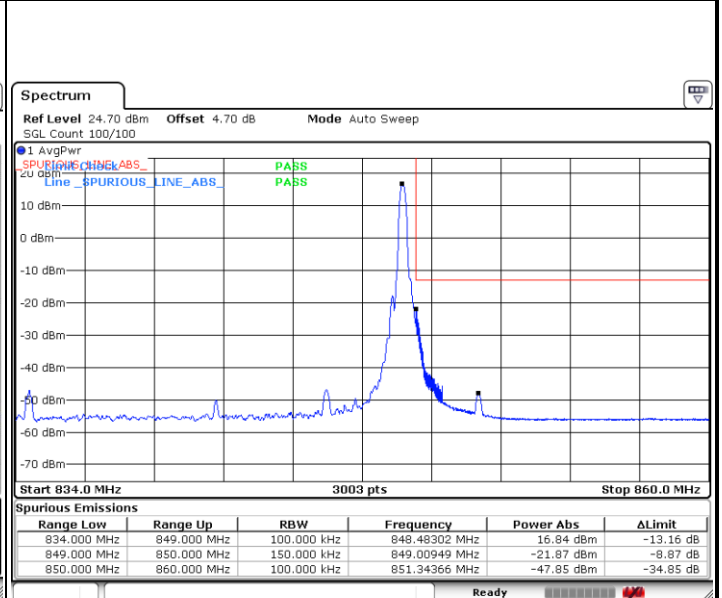
n26 BW15MHz

256QAM-1RB-L



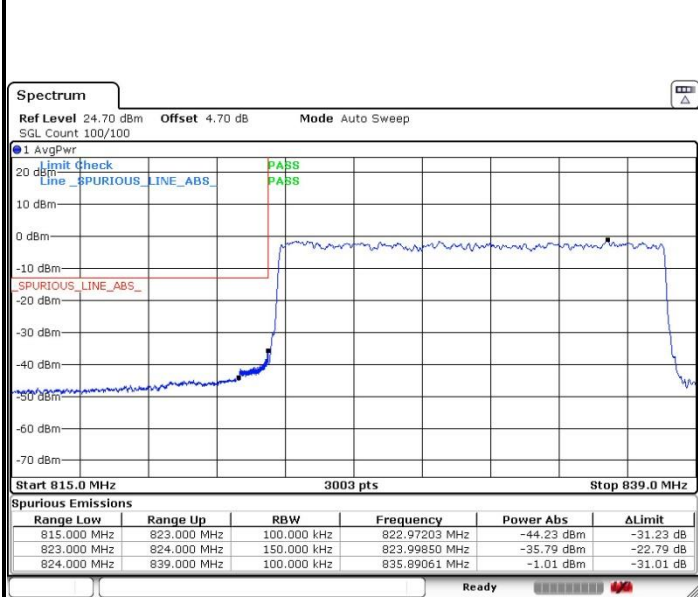
Date: 26.FEB.2021 03:17:32

256QAM-1RB-H



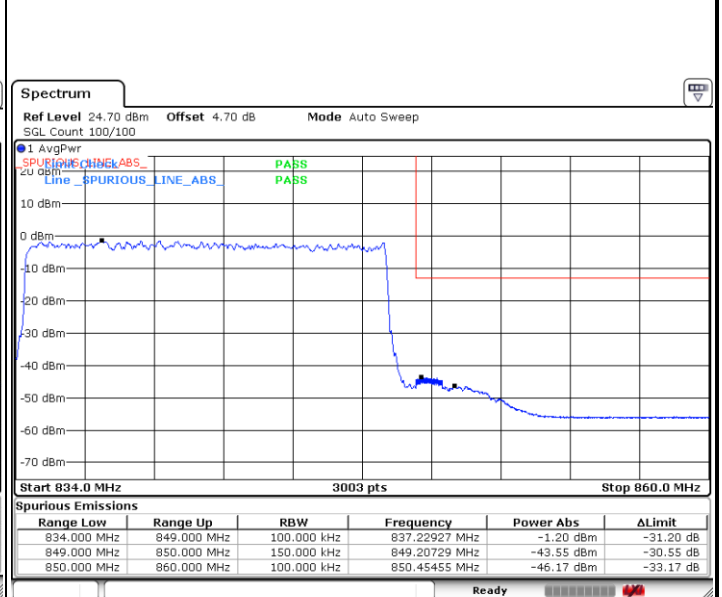
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256QAM-FULLRB-L

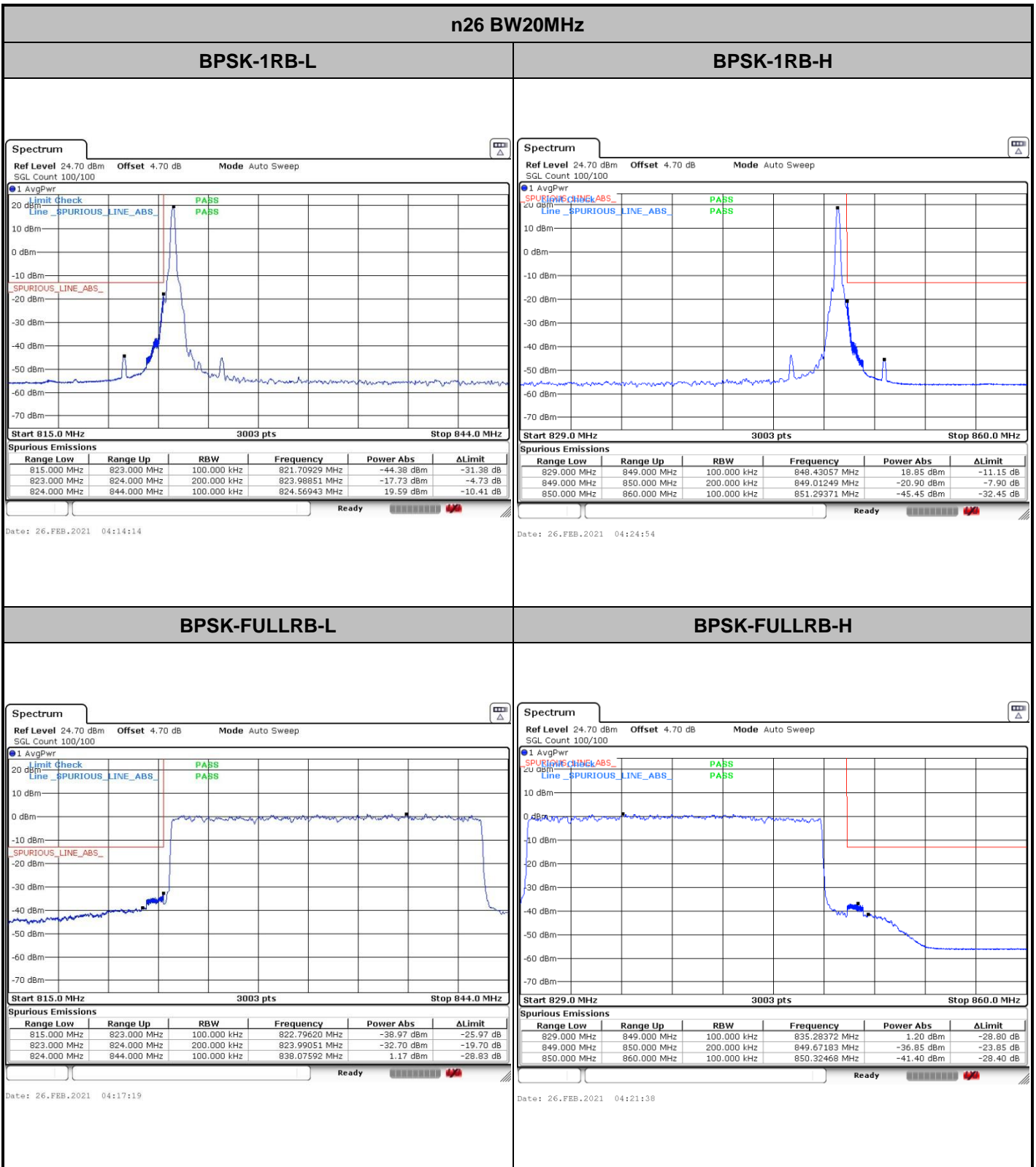


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256QAM-FULLRB-H



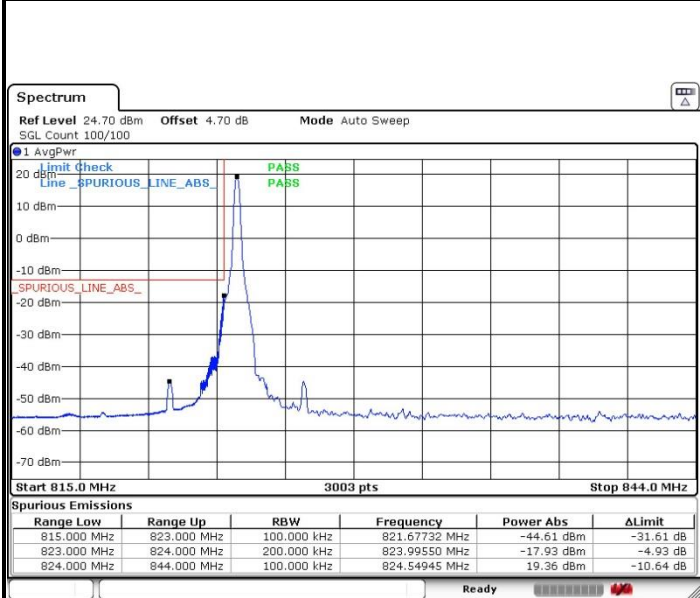
Date: 26.FEB.2021 03:22:56





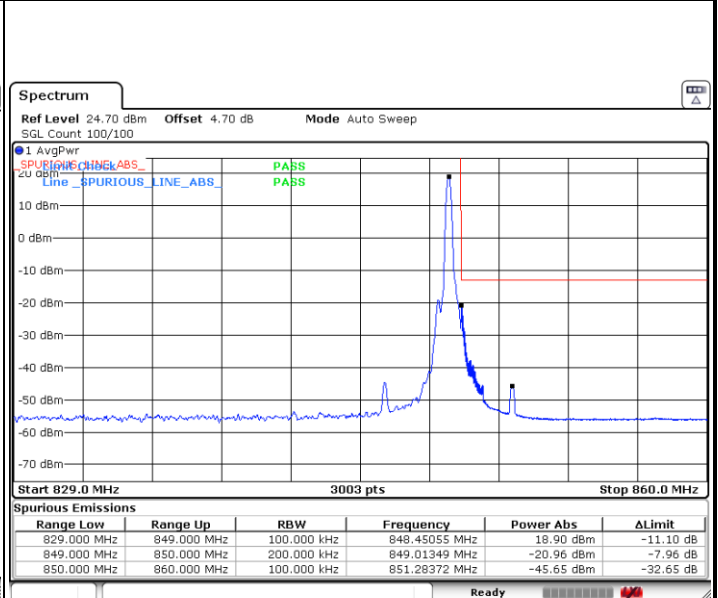
n26 BW20MHz

QPSK-1RB-L



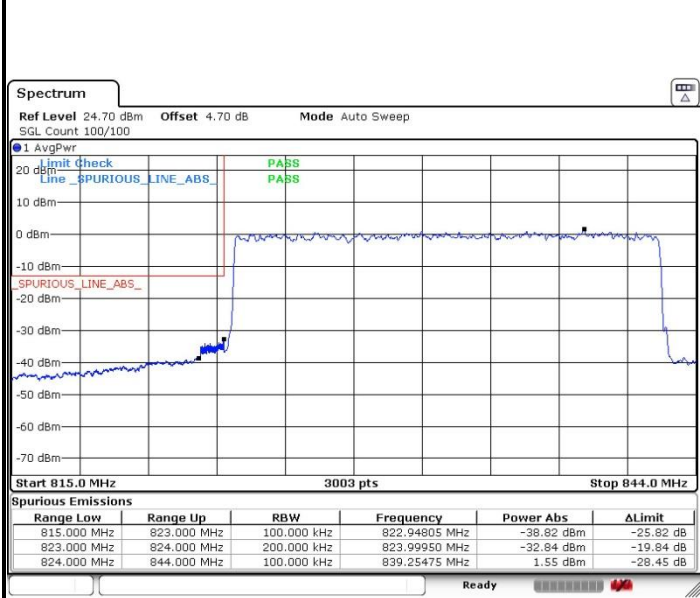
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QPSK-1RB-H



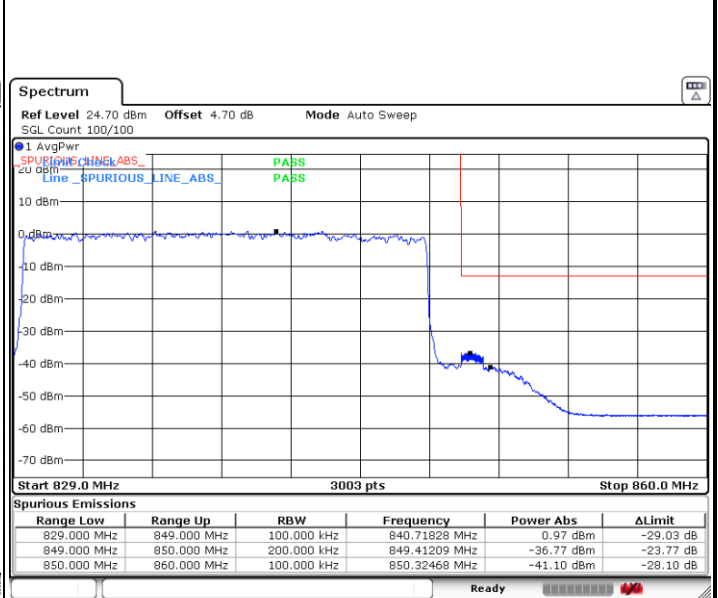
Date: 26.FEB.2021 04:25:28

QPSK-FULLRB-L



Date: 26.FEB.2021 04:17:44

QPSK-FULLRB-H

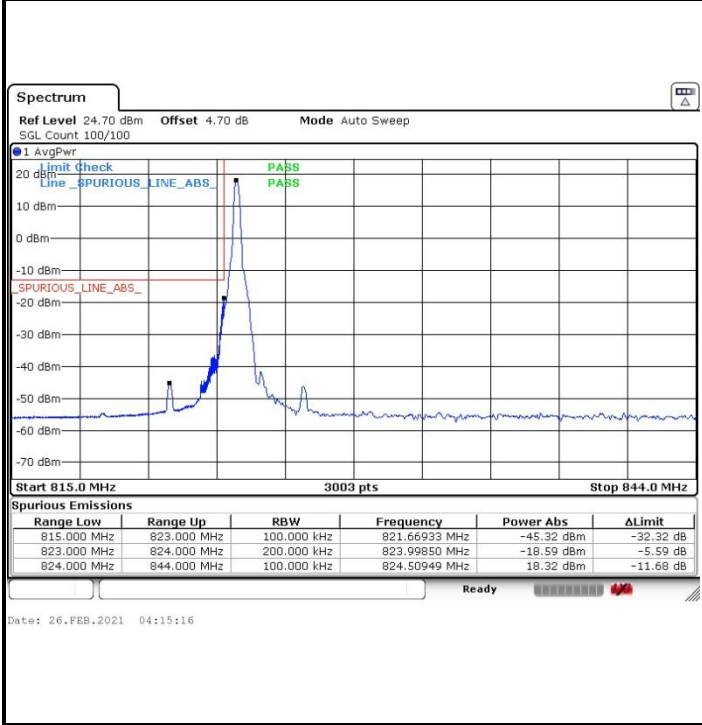


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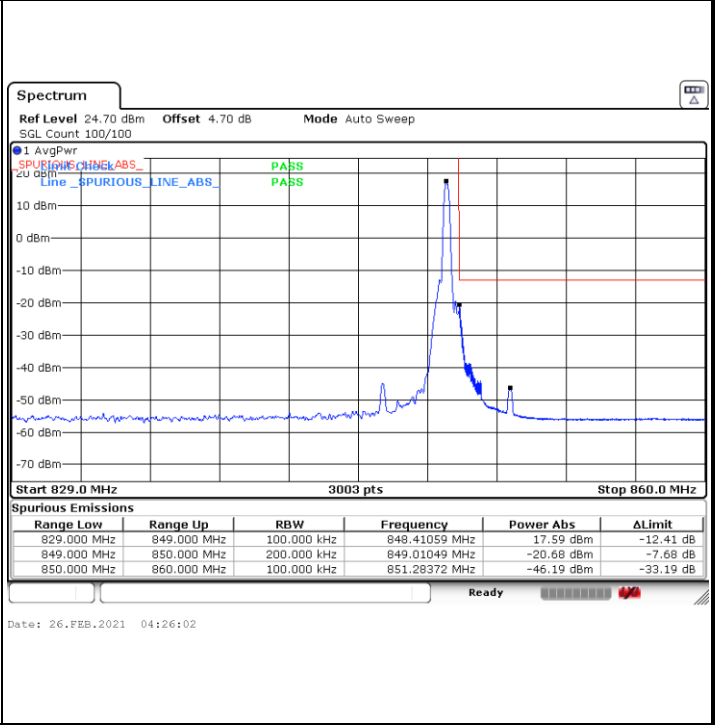


n26 BW20MHz

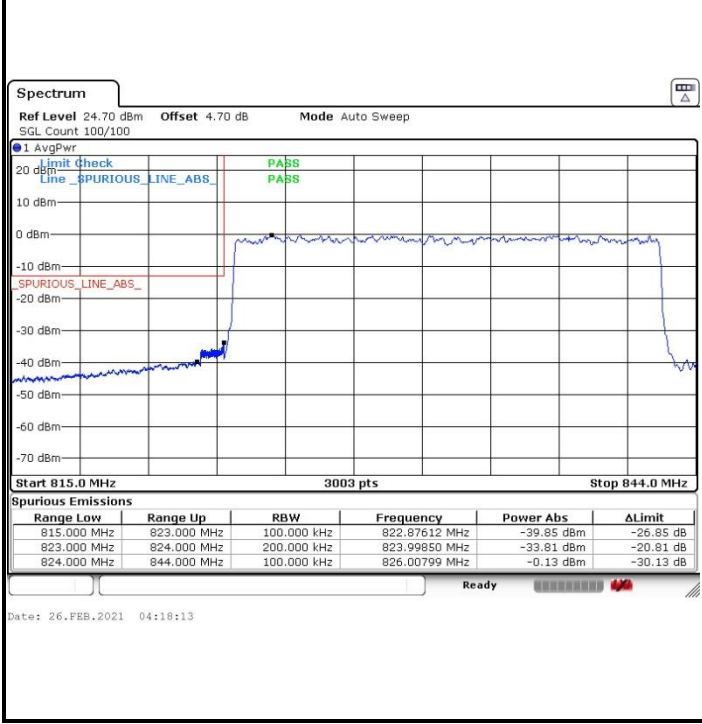
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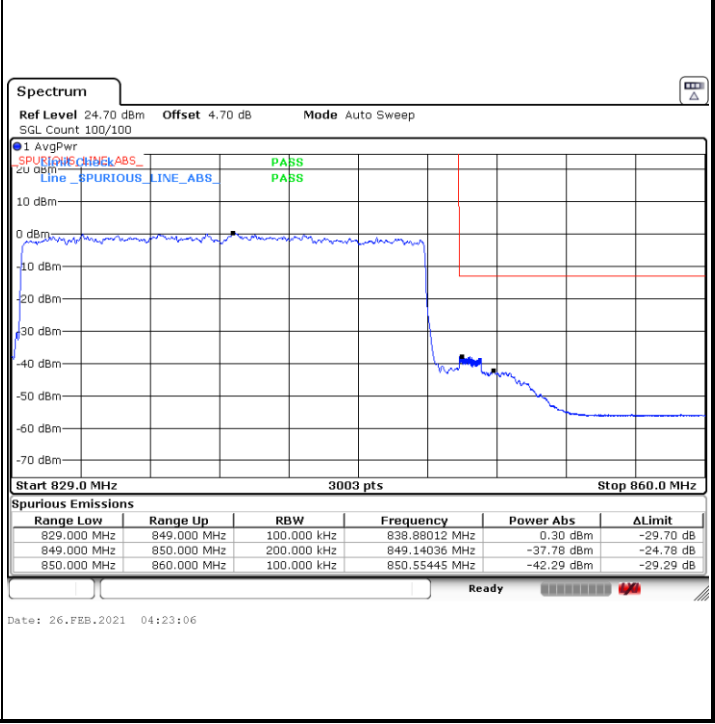
16QAM-1RB-H



16QAM-FULLRB-L



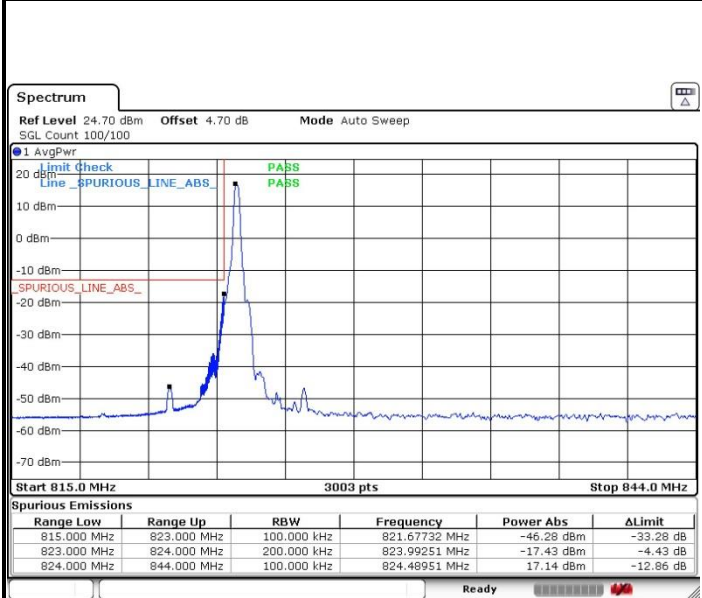
16QAM-FULLRB-H





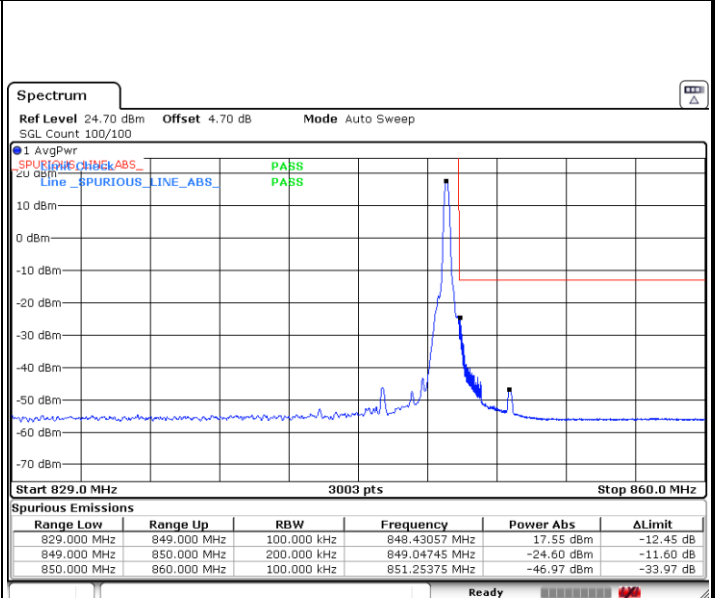
n26 BW20MHz

64QAM-1RB-L



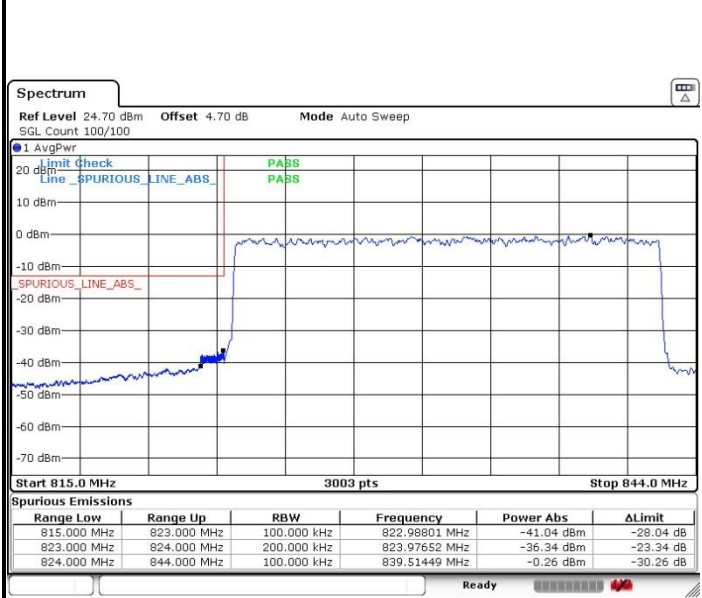
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64QAM-1RB-H



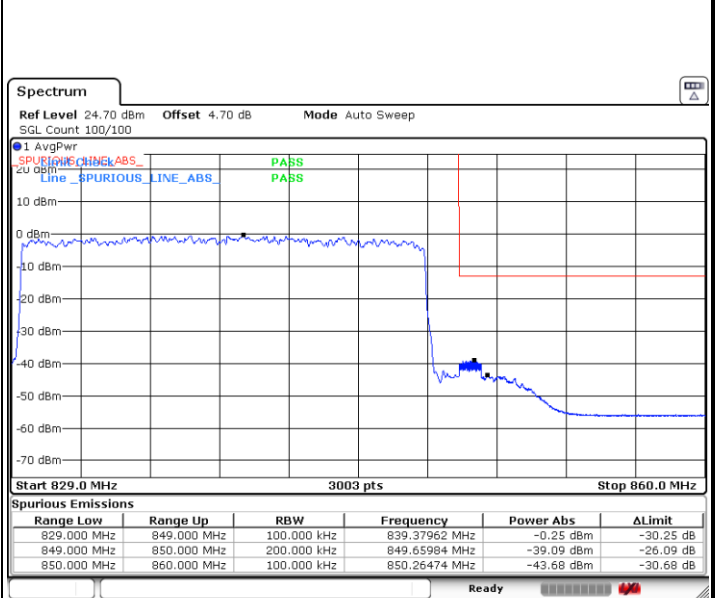
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64QAM-FULLRB-L



Date: 26.FEB.2021 04:19:35

64QAM-FULLRB-H

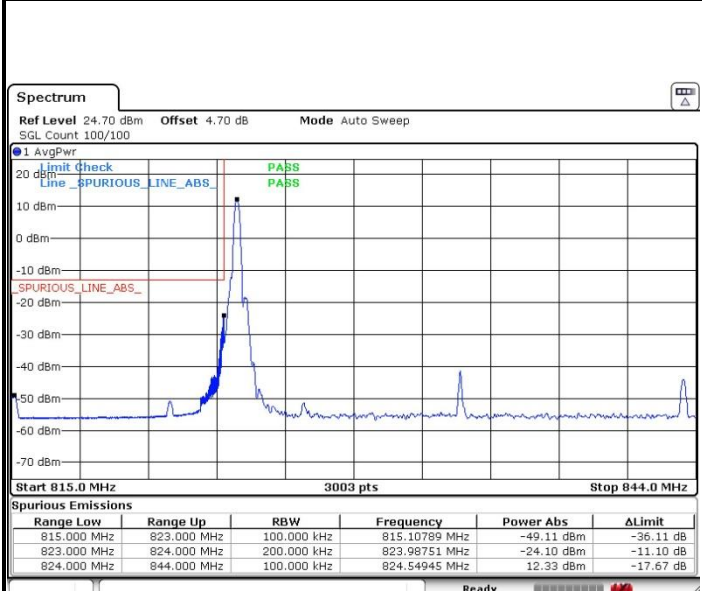


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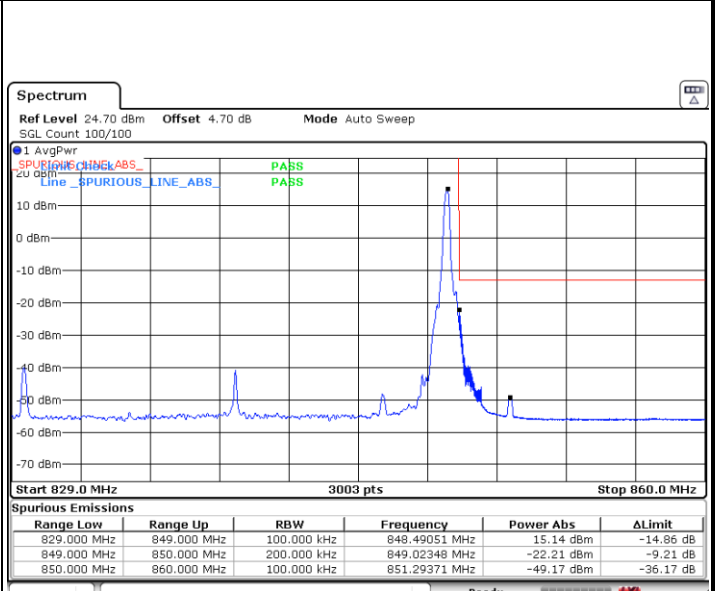
n26 BW20MHz

256QAM-1RB-L



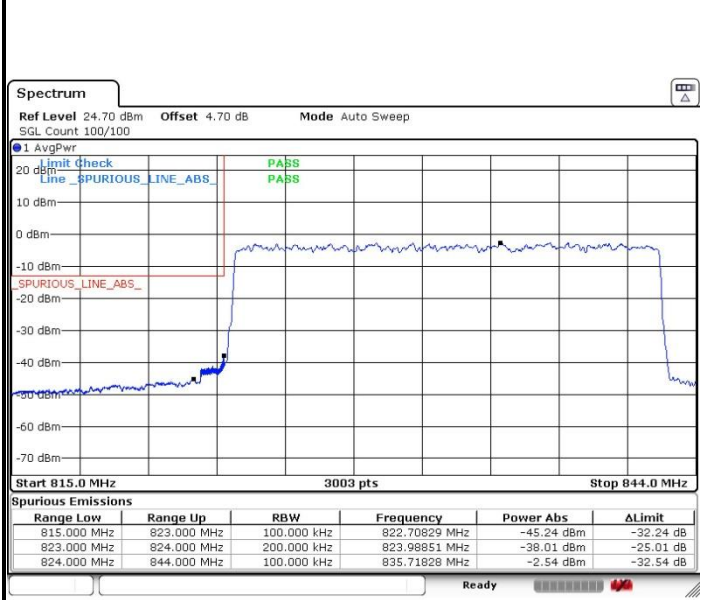
Date: 26.FEB.2021 04:16:15

256QAM-1RB-H



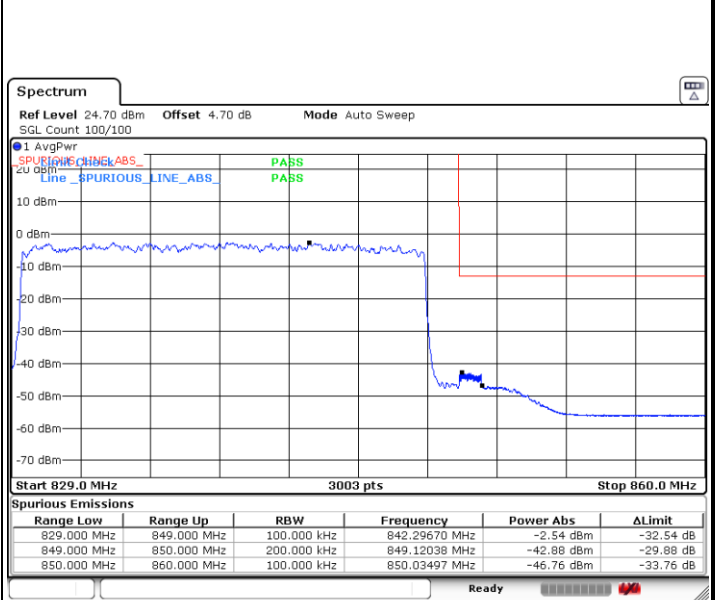
Date: 26.FEB.2021 04:37:37

256QAM-FULLRB-L



Date: 26.FEB.2021 04:20:05

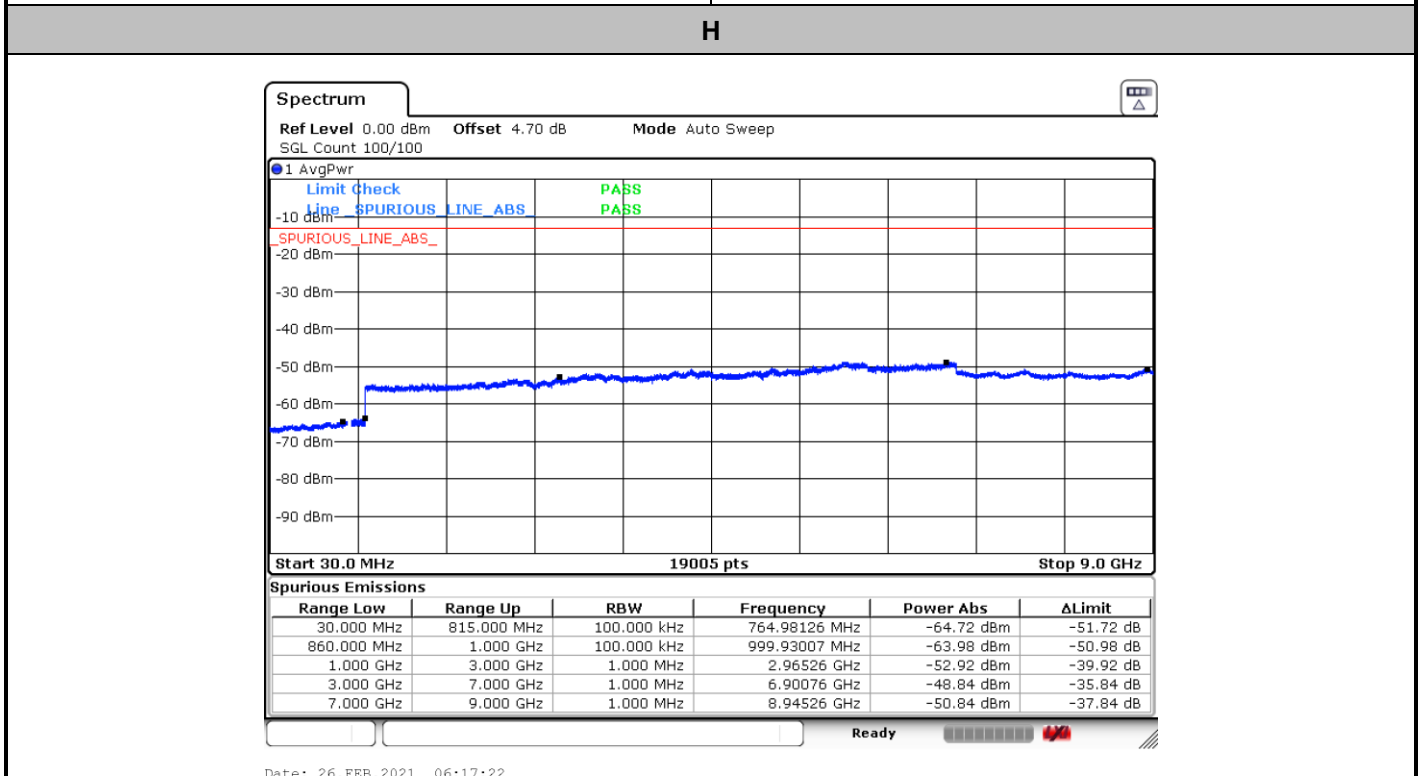
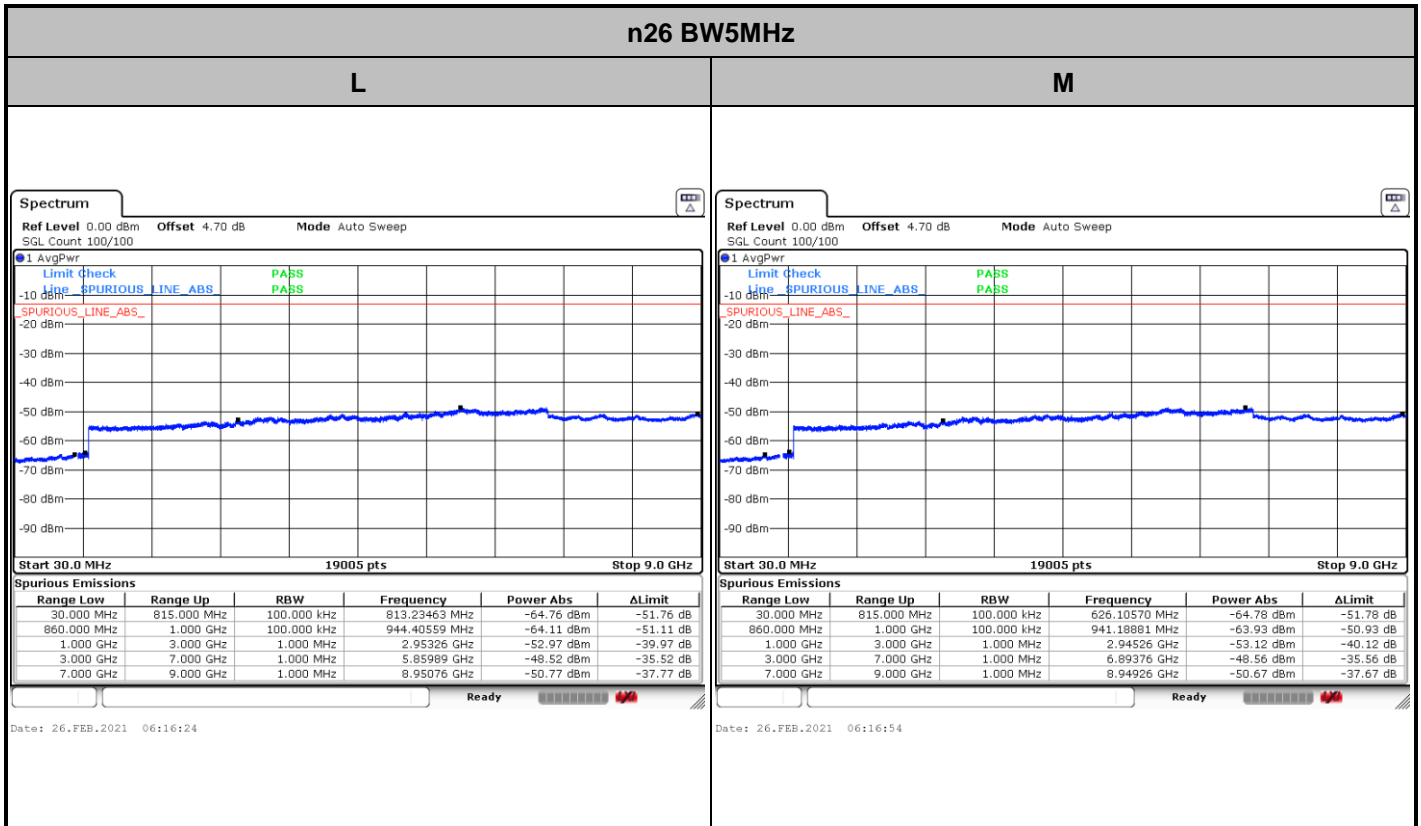
256QAM-FULLRB-H



Date: 26.FEB.2021 04:24:14



Conducted Spurious Emission

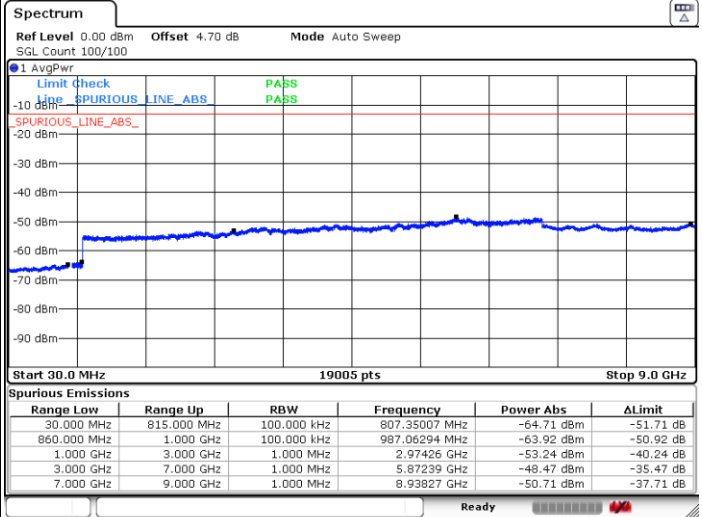
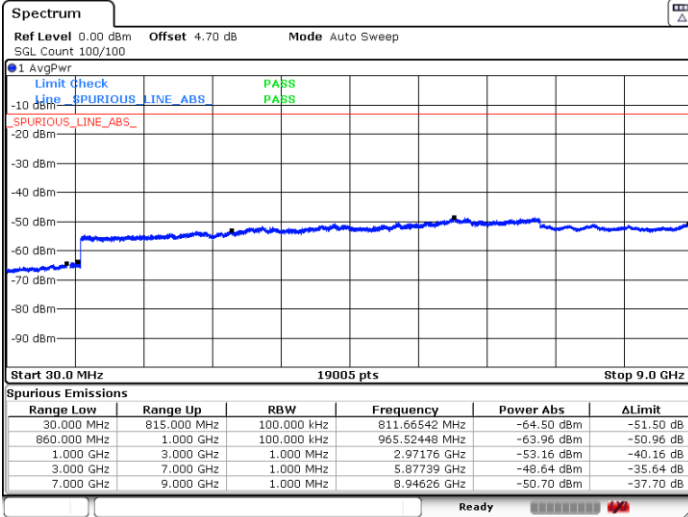




n26 BW10MHz

L

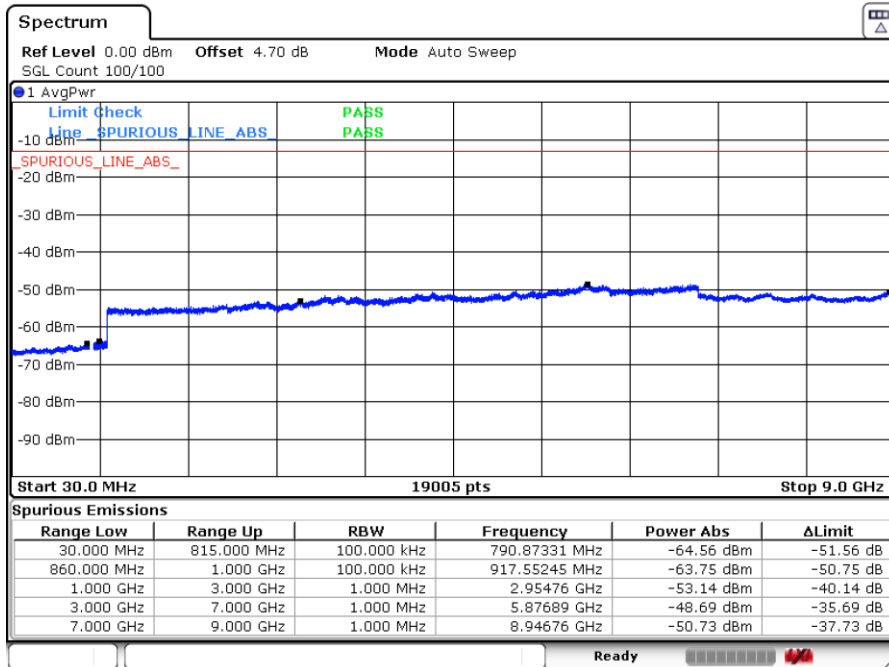
M



Date: 26.FEB.2021 06:15:20

Date: 26.FEB.2021 06:15:43

H



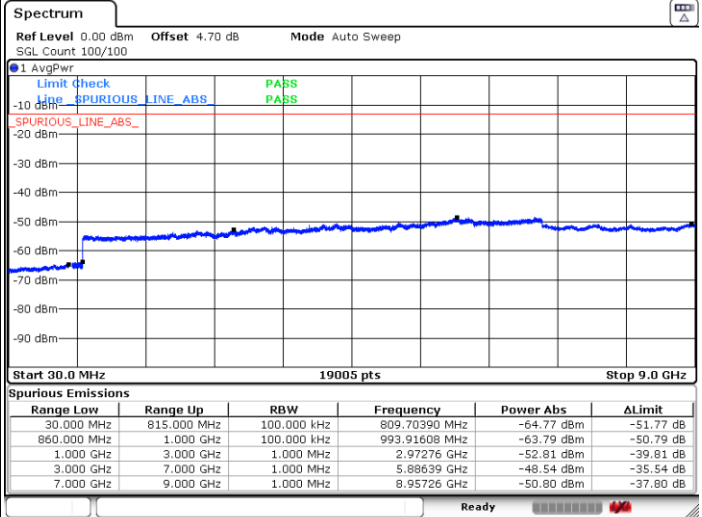
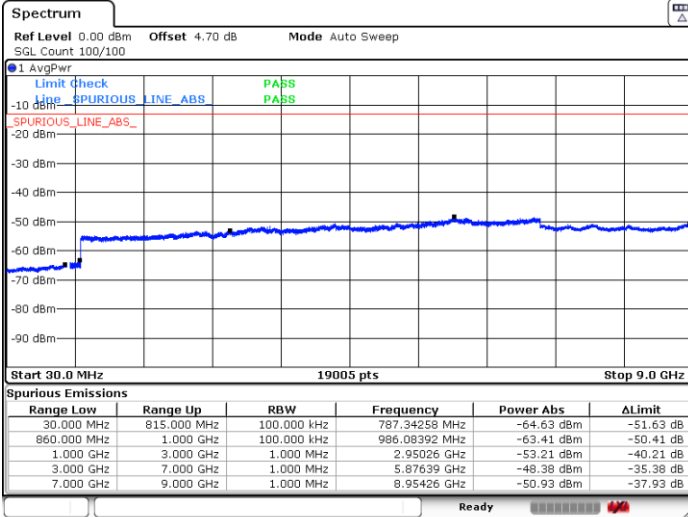
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n26 BW15MHz

L

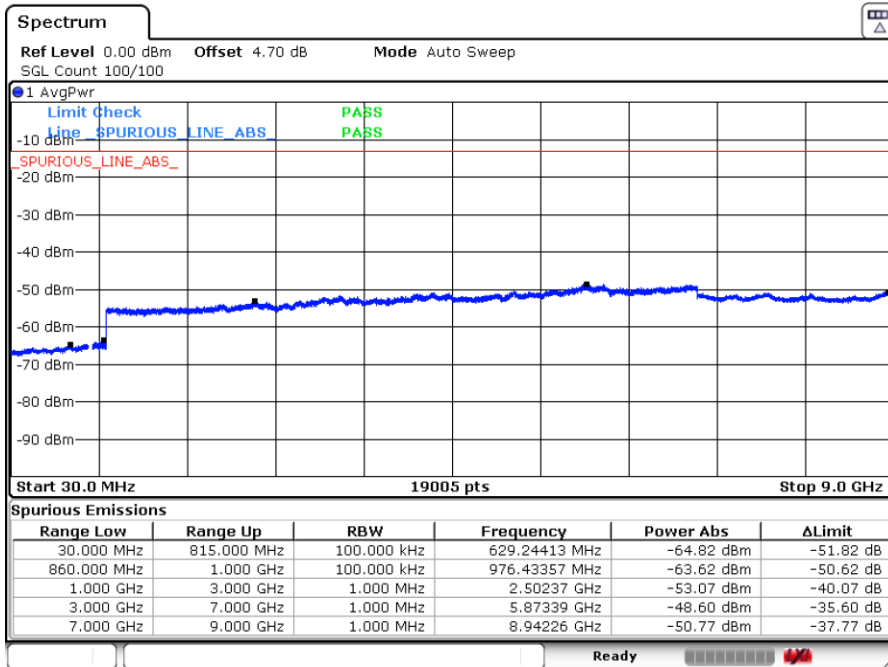
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Date: 26.FEB.2021 06:14:04

Date: 26.FEB.2021 06:14:29

H



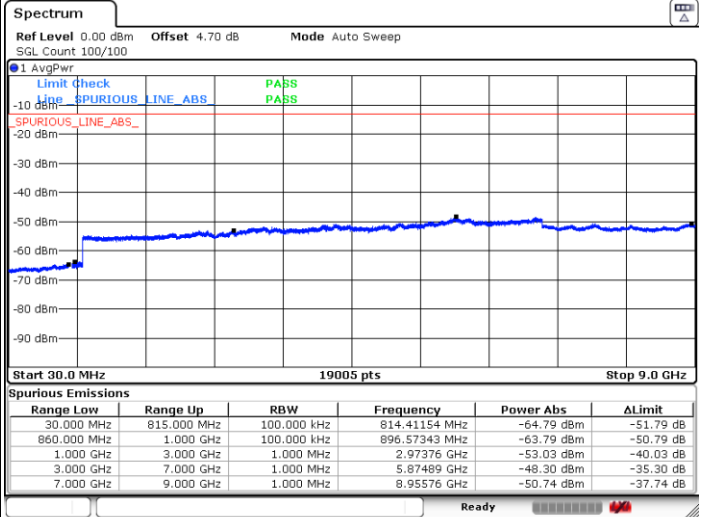
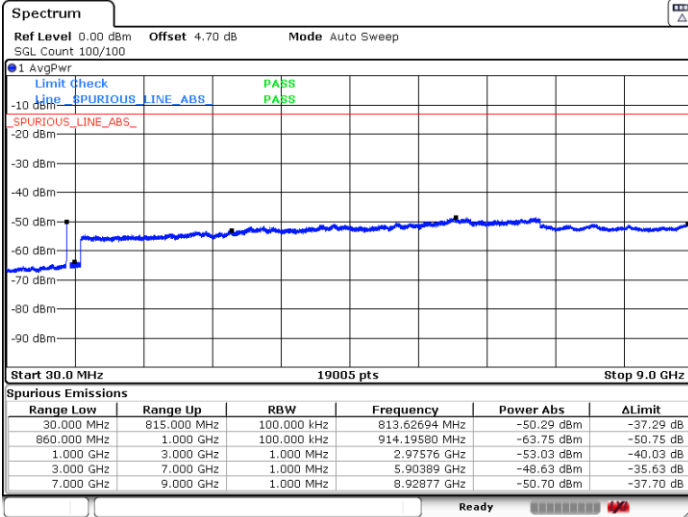
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n26 BW20MHz

L

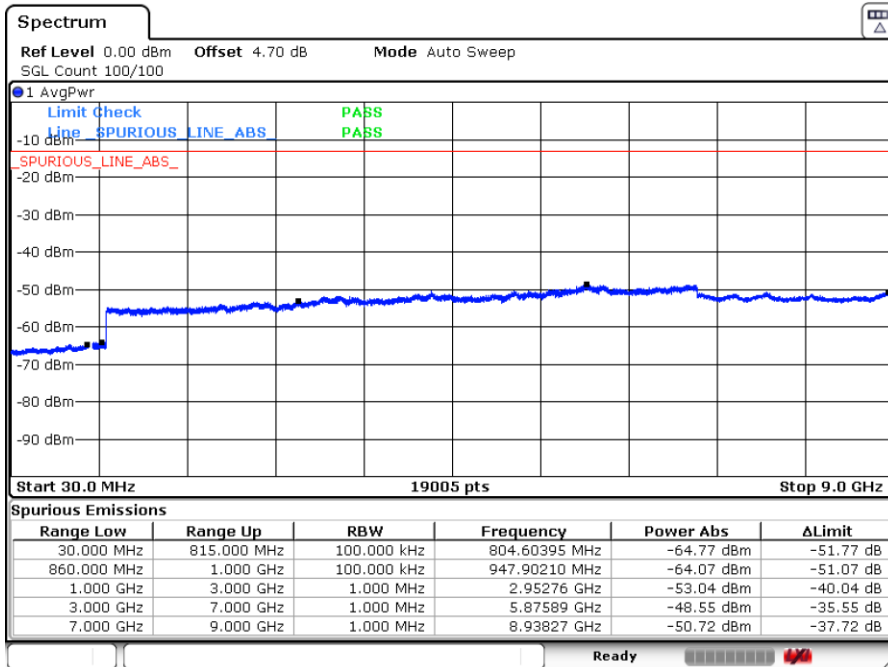
M



Date: 26.FEB.2021 06:12:41

Date: 26.FEB.2021 06:13:07

H



Date: 26.FEB.2021 06:13:44



Frequency Stability

Test Conditions		n26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0033	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0029	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0063	

Note: Normal Voltage =3.87V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.45V.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission_NSA mode

EN-DC_5A_n2A / LTE 20MHz + NR 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 Middle	3741.00	-62.20	-13	-49.20	-78.25	-68.95	5.85	12.60	H
	5611.50	-58.52	-13	-45.52	-77.98	-64.32	7.30	13.10	H
	7482.00	-55.72	-13	-42.72	-80.05	-58.87	8.35	11.50	H
	3741.00	-61.23	-13	-48.23	-76.9	-67.98	5.85	12.60	V
	5611.50	-56.09	-13	-43.09	-75.08	-61.89	7.30	13.10	V
	7482.00	-55.44	-13	-42.44	-80.15	-58.59	8.35	11.50	V
LTE Band5 Middle	1664.18	-66.00	-13	-53.00	-73.88	-71.40	4.00	9.40	H
	2496.27	-63.11	-13	-50.11	-75.17	-68.83	4.88	10.60	H
	3328.36	-62.54	-13	-49.54	-77.18	-69.62	5.52	12.60	H
	1664.18	-65.50	-13	-52.50	-73.52	-70.90	4.00	9.40	V
	2496.27	-62.78	-13	-49.78	-74.93	-68.50	4.88	10.60	V
	3328.36	-62.82	-13	-49.82	-77.44	-69.90	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n5A / LTE 20MHz + NR 20MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1654.5	-63.47	-13	-50.47	-71.58	-66.72	4.00	9.40	H
	2481.75	-47.99	-13	-34.99	-60.02	-51.56	4.88	10.60	H
	3309	-61.46	-13	-48.46	-76.16	-66.39	5.52	12.60	H
	1654.5	-60.22	-13	-47.22	-68.41	-63.47	4.00	9.40	V
	2481.75	-45.97	-13	-32.97	-58.06	-49.54	4.88	10.60	V
	3309	-61.40	-13	-48.40	-76.04	-66.33	5.52	12.60	V
LTE Band2 Middle	3742.18	-61.73	-13	-48.73	-77.80	-68.48	5.85	12.60	H
	5613.27	-59.48	-13	-46.48	-78.99	-65.28	7.30	13.10	H
	7484.36	-55.33	-13	-42.33	-79.65	-58.48	8.35	11.50	H
	3742.18	-62.07	-13	-49.07	-77.76	-68.82	5.85	12.60	V
	5613.27	-59.89	-13	-46.89	-78.88	-65.69	7.30	13.10	V
	7484.36	-55.31	-13	-42.31	-80.02	-58.46	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_2A_n12A / LTE 20MHz + NR 15MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n12 Middle	1401.4	-66.34	-13	-53.34	-75.59	-69.59	4.00	9.40	H
	2102.1	-63.64	-13	-50.64	-74.80	-67.21	4.88	10.60	H
	2802.8	-61.50	-13	-48.50	-75.26	-66.43	5.52	12.60	H
	1401.4	-66.15	-13	-53.15	-75.30	-69.40	4.00	9.40	V
	2102.1	-60.81	-13	-47.81	-72.20	-64.38	4.88	10.60	V
	2802.8	-61.60	-13	-48.60	-75.29	-66.53	5.52	12.60	V
LTE Band2 Middle	3742.18	-62.17	-13	-49.17	-78.24	-68.92	5.85	12.60	H
	5613.27	-59.96	-13	-46.96	-79.47	-65.76	7.30	13.10	H
	7484.36	-55.74	-13	-42.74	-80.06	-58.89	8.35	11.50	H
	3742.18	-62.42	-13	-49.42	-78.11	-69.17	5.85	12.60	V
	5613.27	-60.10	-13	-47.10	-79.09	-65.90	7.30	13.10	V
	7484.36	-55.19	-13	-42.19	-79.9	-58.34	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_48A_n25A / LTE 20MHz + NR 40MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 Middle	3726.60	-59.66	-40	-19.66	-75.67	-66.41	5.85	12.60	H
	5589.90	-52.14	-40	-12.14	-71.36	-57.94	7.30	13.10	H
	7453.20	-56.41	-40	-16.41	-62.70	-59.56	8.35	11.50	H
	3726.60	-59.43	-40	-19.43	-75.1	-66.18	5.85	12.60	V
	5589.90	-53.57	-40	-13.57	-72.62	-59.37	7.30	13.10	V
	7453.20	-56.30	-40	-16.30	-62.95	-59.45	8.35	11.50	V
LTE Band48 Middle	7332.00	-57.67	-40	-17.67	-63.85	-60.97	8.30	11.60	H
	10998.00	-55.54	-40	-15.54	-65.94	-57.06	10.48	12.00	H
	14664.00	-53.18	-40	-13.18	-65.71	-54.88	11.80	13.50	H
	7332.00	-56.93	-40	-16.93	-63.6	-60.23	8.30	11.60	V
	10998.00	-56.12	-40	-16.12	-66.16	-57.64	10.48	12.00	V
	14664.00	-51.42	-40	-11.42	-65.91	-53.12	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Radiated Spurious Emission_SA mode

5G NR n2 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-62.44	-13	-49.44	-78.49	-69.19	5.85	12.60	H
	5611.5	-60.45	-13	-47.45	-79.91	-66.25	7.30	13.10	H
	7482	-57.03	-13	-44.03	-81.36	-60.18	8.35	11.50	H
	3741	-61.69	-13	-48.69	-77.36	-68.44	5.85	12.60	V
	5611.5	-61.15	-13	-48.15	-80.14	-66.95	7.30	13.10	V
	7482	-56.49	-13	-43.49	-81.2	-59.64	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n5 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1654.5	-61.09	-13	-48.09	-69.20	-64.34	4.00	9.40	H
	2481.75	-49.94	-13	-36.94	-61.97	-53.51	4.88	10.60	H
	3309	-61.71	-13	-48.71	-76.41	-66.64	5.52	12.60	H
	1654.5	-58.73	-13	-45.73	-66.92	-61.98	4.00	9.40	V
	2481.75	-46.88	-13	-33.88	-58.97	-50.45	4.88	10.60	V
	3309	-61.90	-13	-48.90	-76.54	-66.83	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5G NR n25 / NR 40MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3746.5	-62.10	-13	-49.10	-78.19	-68.85	5.85	12.60	H
	5619.75	-60.18	-13	-47.18	-79.85	-65.98	7.30	13.10	H
	7493	-56.81	-13	-43.81	-81.10	-59.96	8.35	11.50	H
	3746.5	-62.70	-13	-49.70	-78.39	-69.45	5.85	12.60	V
	5619.75	-60.87	-13	-47.87	-79.86	-66.67	7.30	13.10	V
	7493	-56.38	-13	-43.38	-81.07	-59.53	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

5G NR n26 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1655	-59.72	-13	-46.72	-67.82	-62.97	4.00	9.40	H
	2482.5	-47.65	-13	-34.65	-59.68	-51.22	4.88	10.60	H
	3310	-62.44	-13	-49.44	-77.14	-67.37	5.52	12.60	H
	1655	-57.52	-13	-44.52	-65.70	-60.77	4.00	9.40	V
	2482.5	-44.07	-13	-31.07	-56.16	-47.64	4.88	10.60	V
	3310	-62.65	-13	-49.65	-77.29	-67.58	5.52	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.