



Appendix B

E-UTRA Band 26 (814-824)



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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

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1 Transmitter Conducted Power Output

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Conducted Power(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.29	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.30	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.31	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.30	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.57	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.48	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.37	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.36	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.40	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.33	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.49	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.53	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.31	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.51	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.35	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.24	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.04	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	23.36	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	23.54	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.40	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.41	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.14	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	21.80	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.09	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	22.30	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.77	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.38	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.29	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.11	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.04	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.12	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.52	PASS



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Band26	1.4MHz	16QAM	26740	3RB#1	22.60	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	22.55	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.34	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.10	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.20	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	21.71	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	22.35	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	22.84	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.35	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.31	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.29	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.19	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.27	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.36	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.49	PASS
Band26	3MHz	QPSK	26705	8RB#7	22.32	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.38	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.26	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.57	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.45	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.44	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.50	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.46	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.54	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.32	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.20	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.19	PASS
Band26	3MHz	QPSK	26775	8RB#0	22.46	PASS
Band26	3MHz	QPSK	26775	8RB#4	22.46	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.51	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.43	PASS
Band26	3MHz	16QAM	26705	1RB#0	21.67	PASS
Band26	3MHz	16QAM	26705	1RB#8	21.95	PASS
Band26	3MHz	16QAM	26705	1RB#14	21.85	PASS
Band26	3MHz	16QAM	26705	8RB#0	21.53	PASS
Band26	3MHz	16QAM	26705	8RB#4	21.47	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.51	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.29	PASS



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Band26	3MHz	16QAM	26740	1RB#0	21.80	PASS
Band26	3MHz	16QAM	26740	1RB#8	21.93	PASS
Band26	3MHz	16QAM	26740	1RB#14	21.98	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.52	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.58	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.73	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.47	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.50	PASS
Band26	3MHz	16QAM	26775	1RB#8	21.95	PASS
Band26	3MHz	16QAM	26775	1RB#14	21.72	PASS
Band26	3MHz	16QAM	26775	8RB#0	21.53	PASS
Band26	3MHz	16QAM	26775	8RB#4	21.63	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.68	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.46	PASS
Band26	5MHz	QPSK	26715	1RB#0	22.98	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.43	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.22	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.35	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.49	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.32	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.47	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.24	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.46	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.36	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.48	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.43	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.47	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.53	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.29	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.58	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.45	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.46	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.46	PASS
Band26	5MHz	QPSK	26765	12RB#13	22.45	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.42	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.20	PASS
Band26	5MHz	16QAM	26715	1RB#24	21.87	PASS



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Band26	5MHz	16QAM	26715	12RB#0	21.40	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.33	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.35	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.41	PASS
Band26	5MHz	16QAM	26740	1RB#0	21.85	PASS
Band26	5MHz	16QAM	26740	1RB#12	21.99	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.66	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.54	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.57	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.41	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.46	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.15	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.16	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.64	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.39	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.50	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.48	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.34	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.08	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.48	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.23	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.47	PASS
Band26	10MHz	QPSK	26740	25RB#12	22.54	PASS
Band26	10MHz	QPSK	26740	25RB#25	22.45	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.50	PASS
Band26	10MHz	16QAM	26740	1RB#0	21.90	PASS
Band26	10MHz	16QAM	26740	1RB#24	21.99	PASS
Band26	10MHz	16QAM	26740	1RB#49	21.90	PASS
Band26	10MHz	16QAM	26740	25RB#0	21.50	PASS
Band26	10MHz	16QAM	26740	25RB#12	21.55	PASS
Band26	10MHz	16QAM	26740	25RB#25	21.58	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.52	PASS



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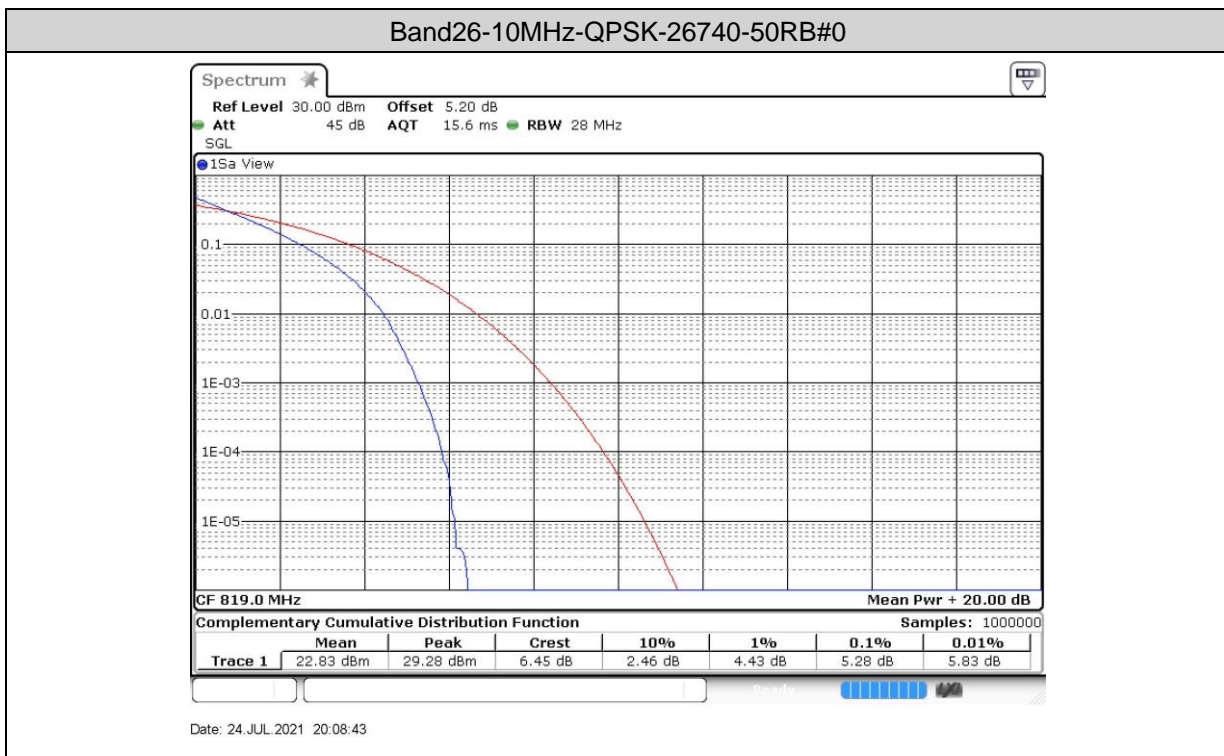
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

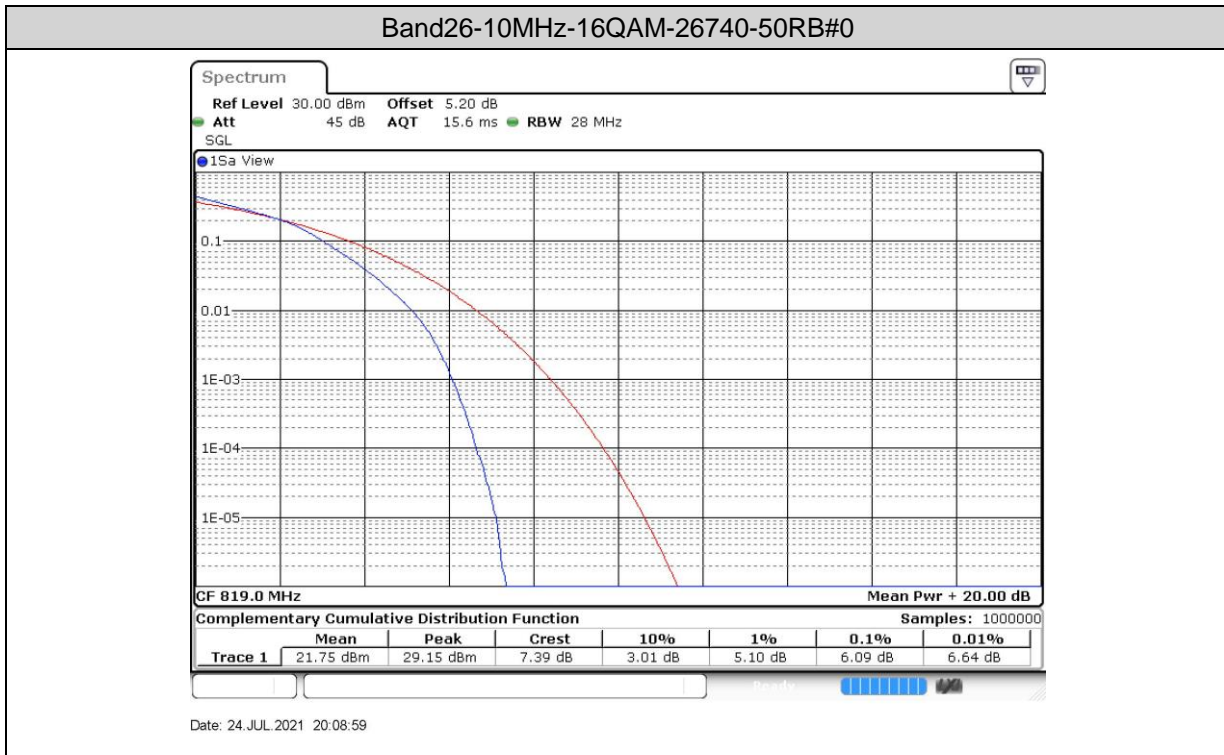
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.28	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.09	13	PASS

2.2. Test Plots



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Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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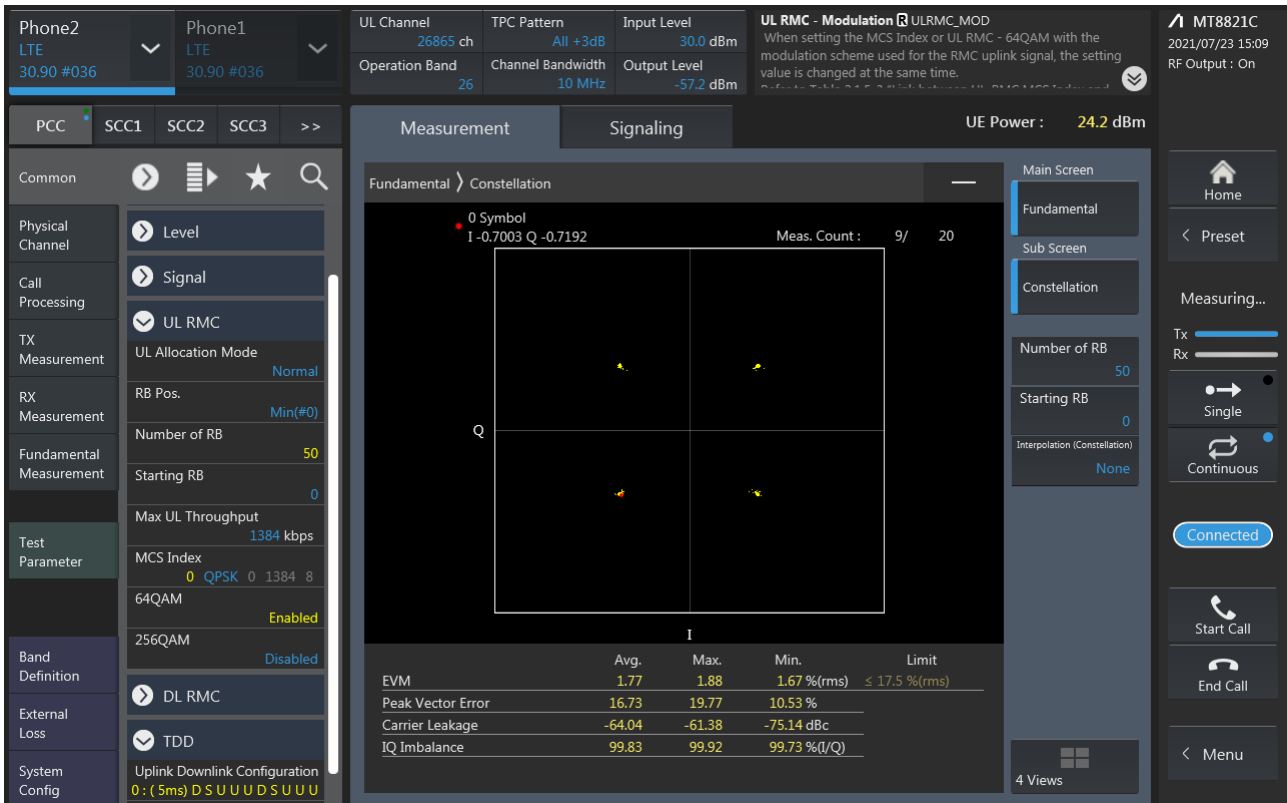
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



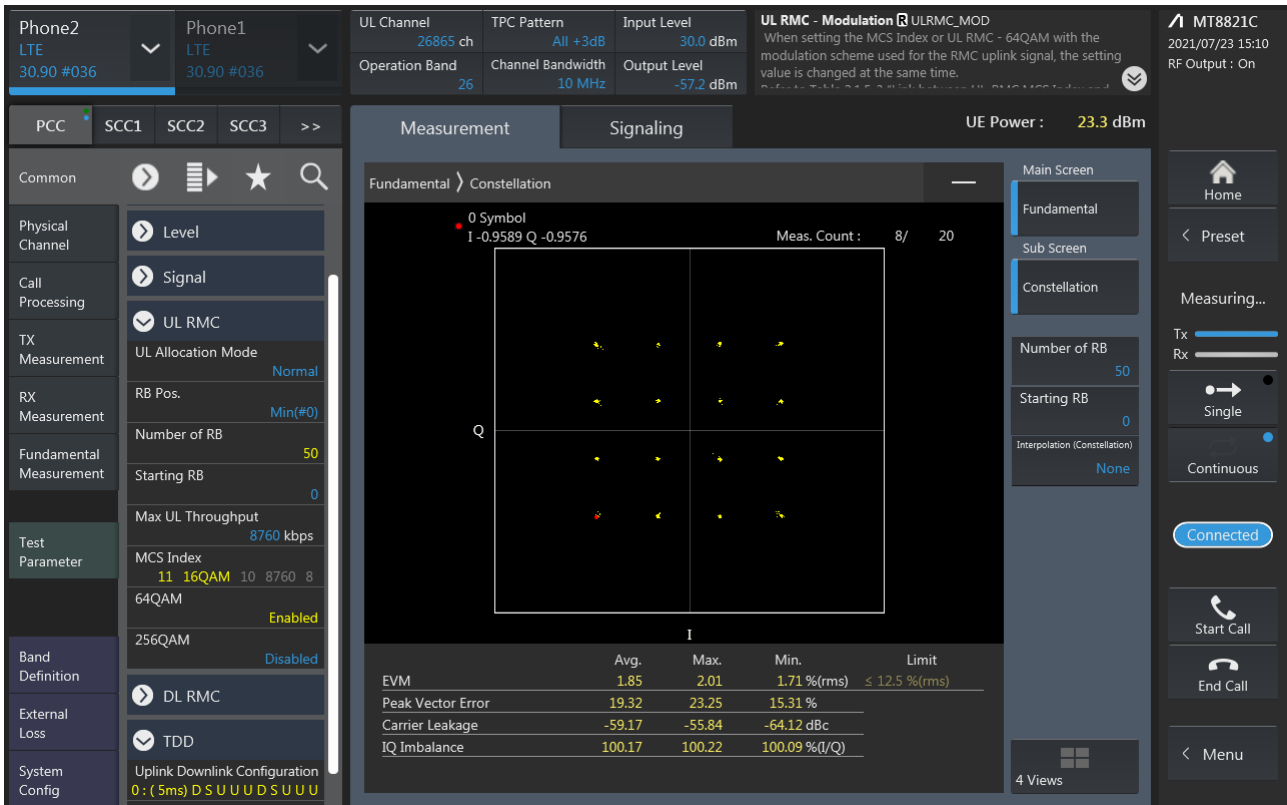
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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

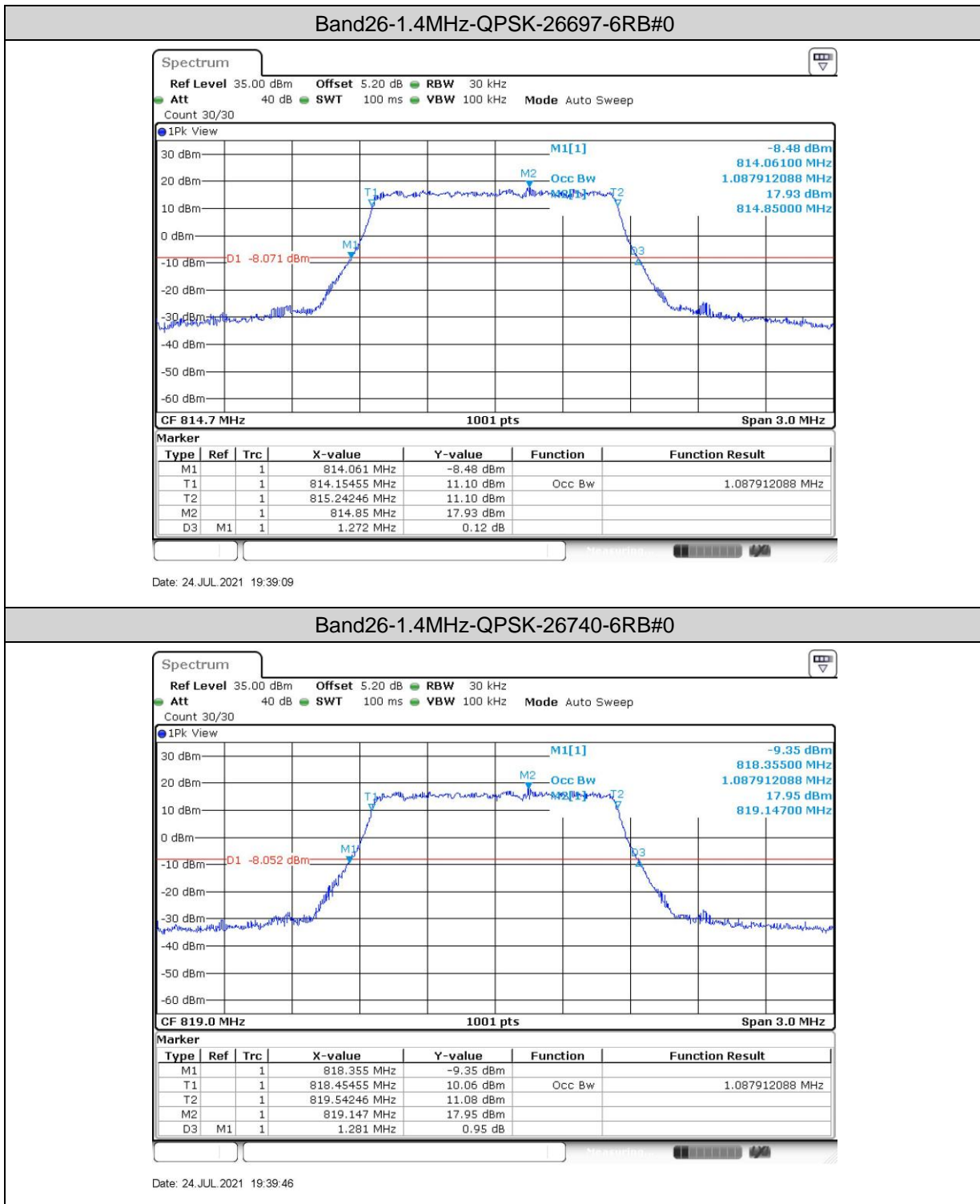
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.088	1.272	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.088	1.281	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.088	1.272	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.097	1.287	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.094	1.278	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.290	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.952	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.697	2.970	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.958	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.982	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.685	2.970	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.982	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.476	4.780	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.890	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.466	4.900	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.466	4.940	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.466	4.940	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.930	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.931	9.700	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.911	9.700	PASS



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4.2. Test Plots

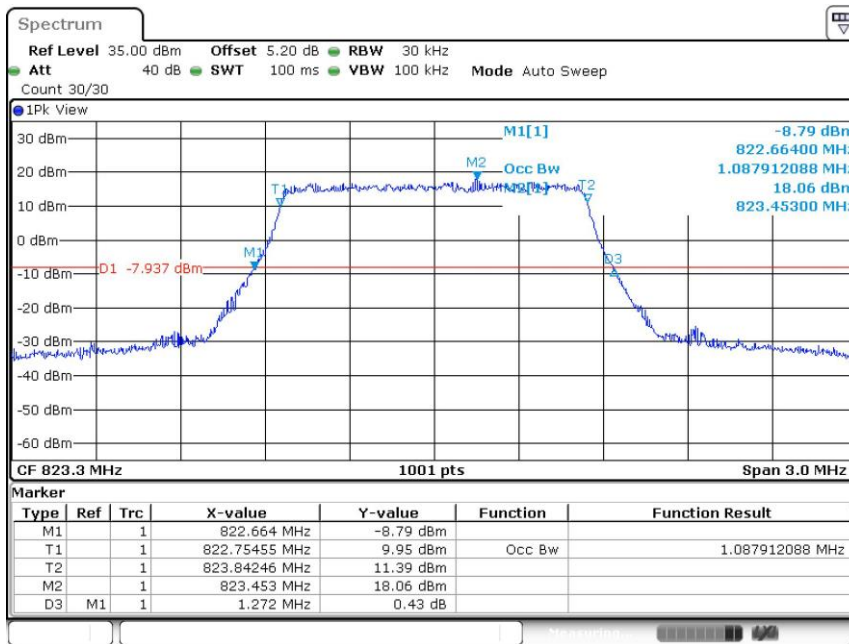


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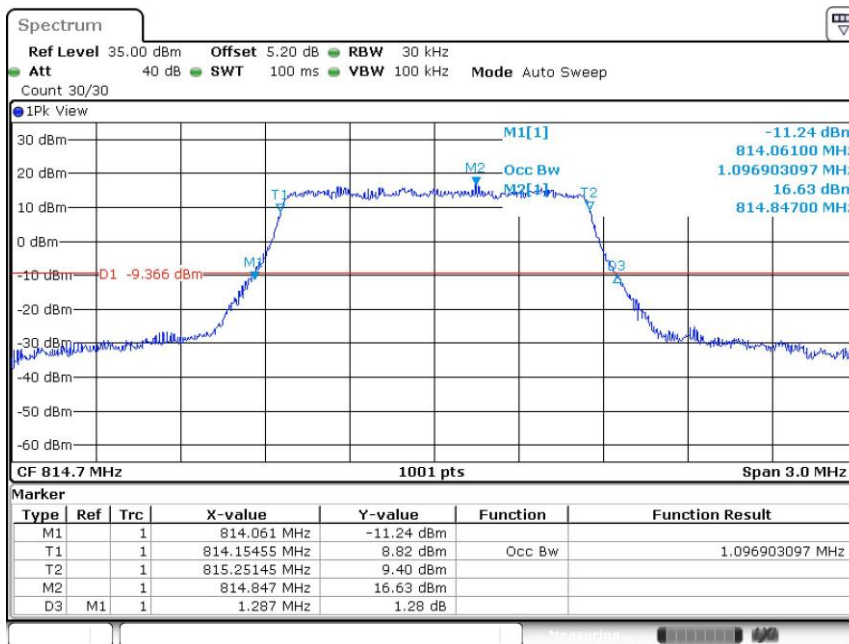
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Band26-1.4MHz-QPSK-26783-6RB#0



Date: 24.JUL.2021 19:40:22

Band26-1.4MHz-16QAM-26697-6RB#0

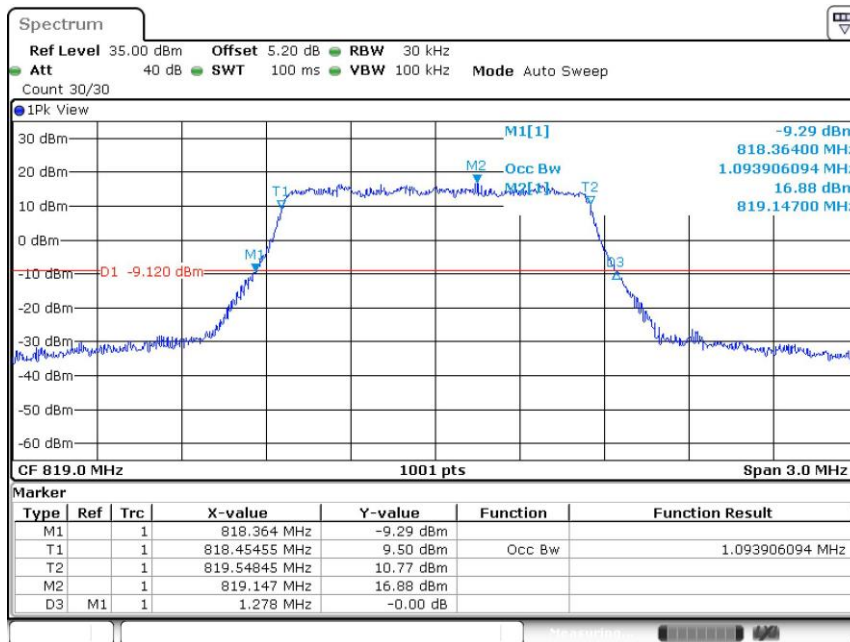


Date: 24.JUL.2021 19:39:28



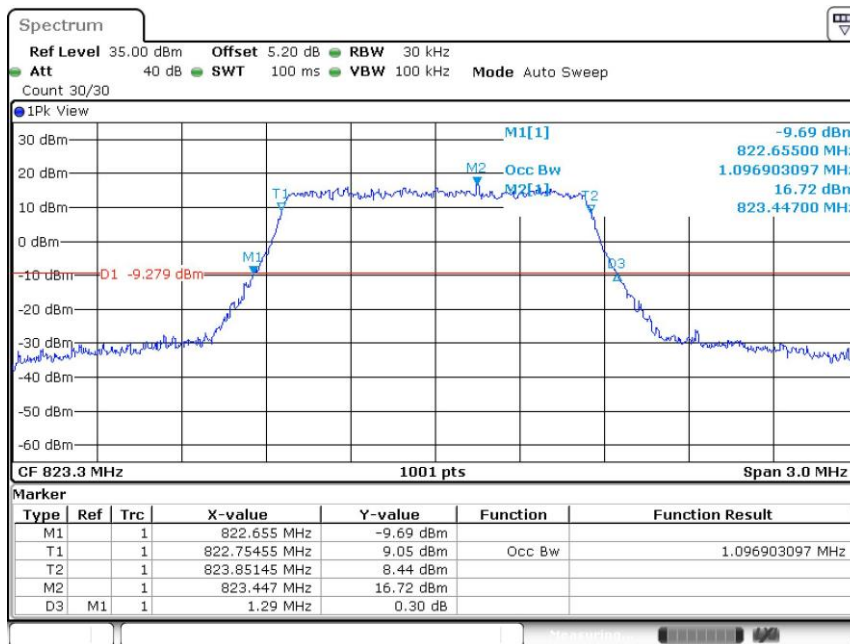
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Band26-1.4MHz-16QAM-26740-6RB#0



Date: 24.JUL.2021 19:40:04

Band26-1.4MHz-16QAM-26783-6RB#0

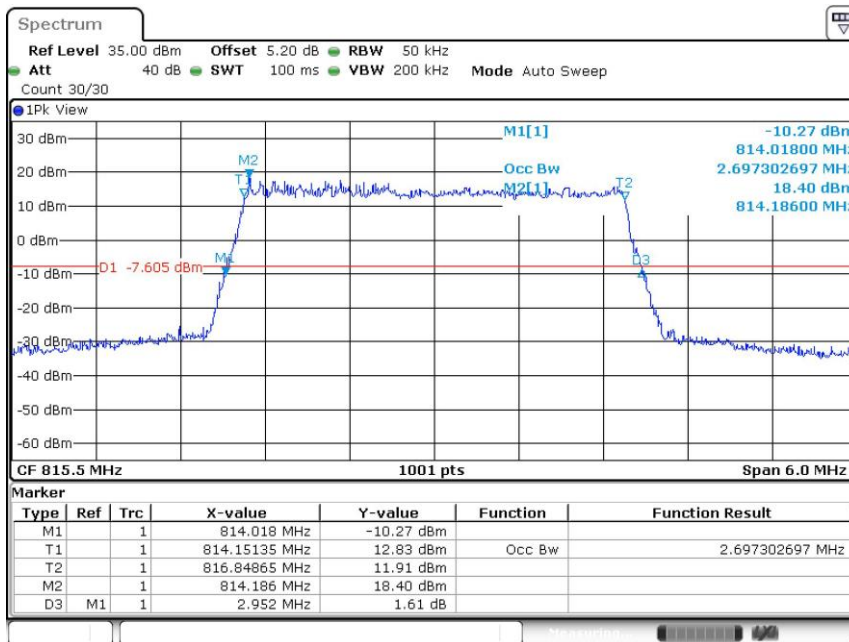


Date: 24.JUL.2021 19:40:39



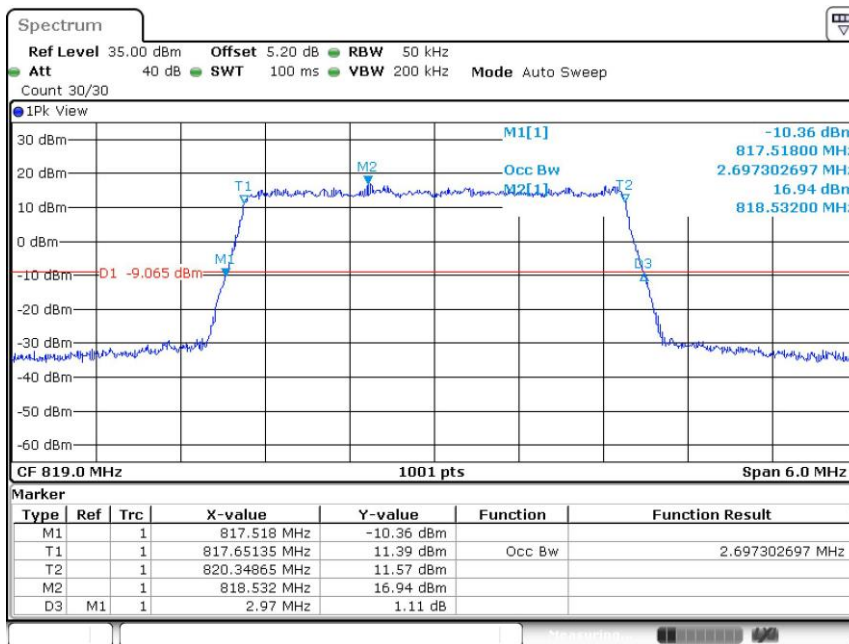
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Band26-3MHz-QPSK-26705-15RB#0



Date: 24.JUL.2021 19:43:27

Band26-3MHz-QPSK-26740-15RB#0



Date: 24.JUL.2021 19:44:02

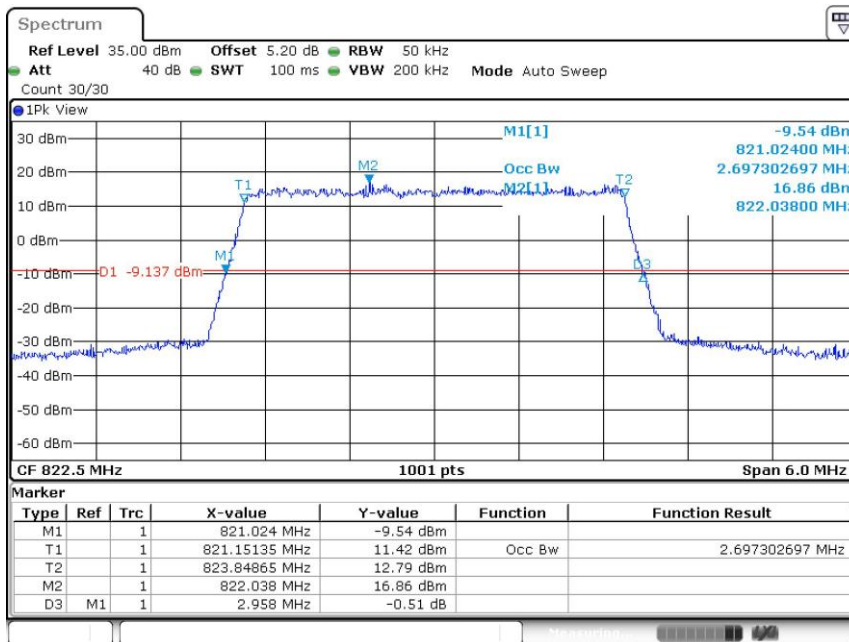


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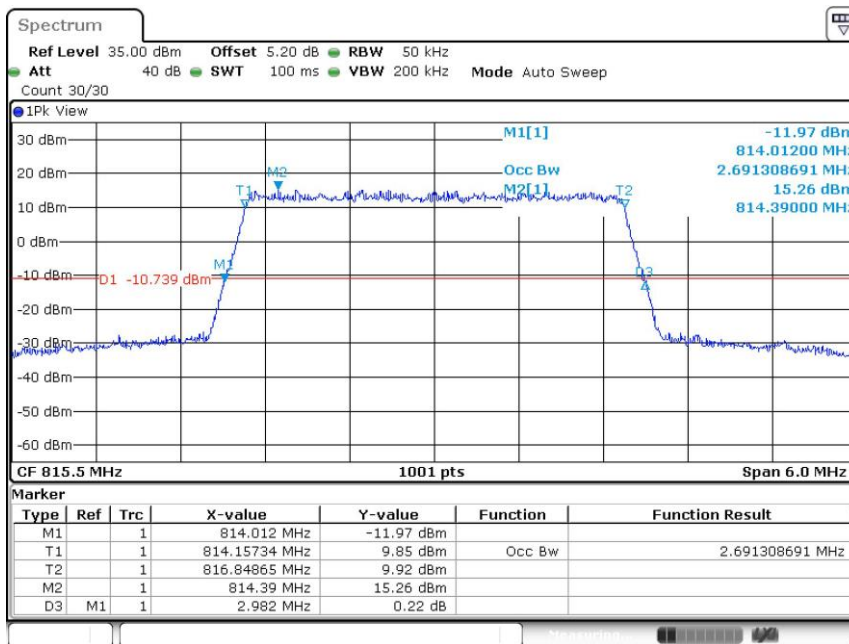
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Band26-3MHz-QPSK-26775-15RB#0



Date: 24.JUL.2021 19:44:38

Band26-3MHz-16QAM-26705-15RB#0

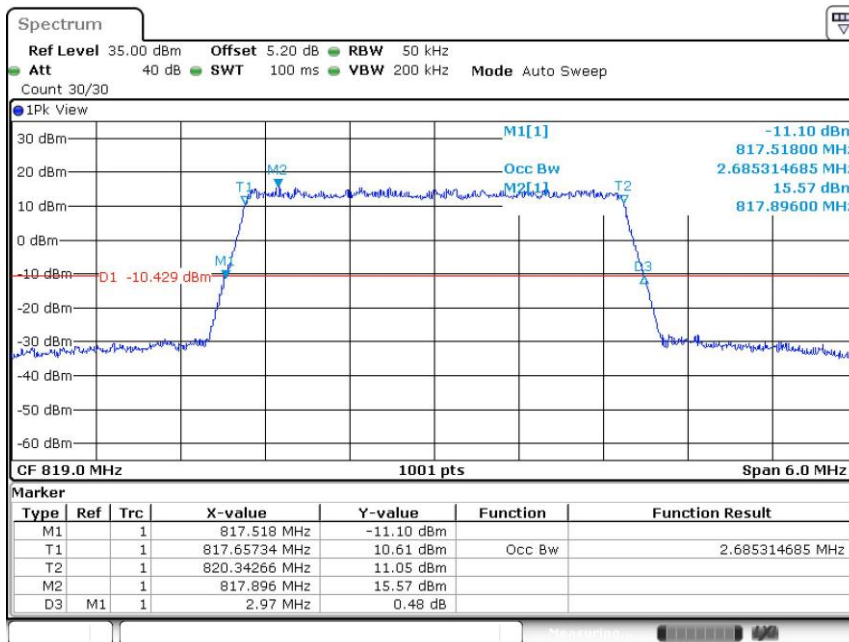


Date: 24.JUL.2021 19:43:44



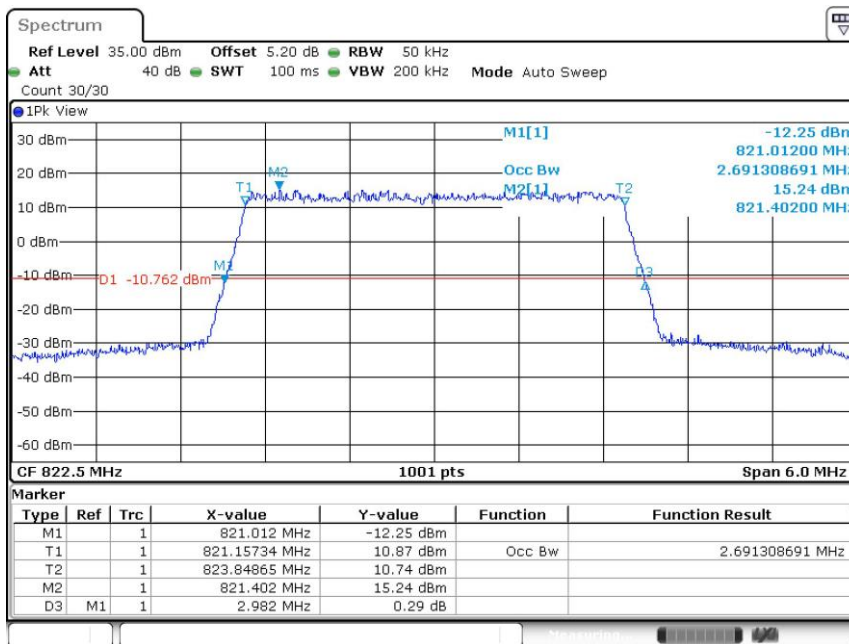
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Band26-3MHz-16QAM-26740-15RB#0



Date: 24.JUL.2021 19:44:20

Band26-3MHz-16QAM-26775-15RB#0

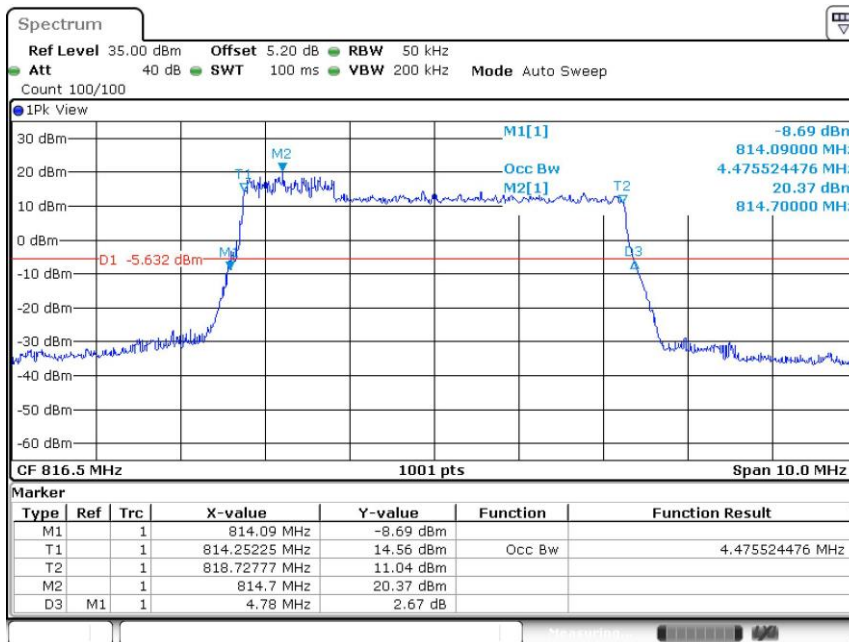


Date: 24.JUL.2021 19:44:55



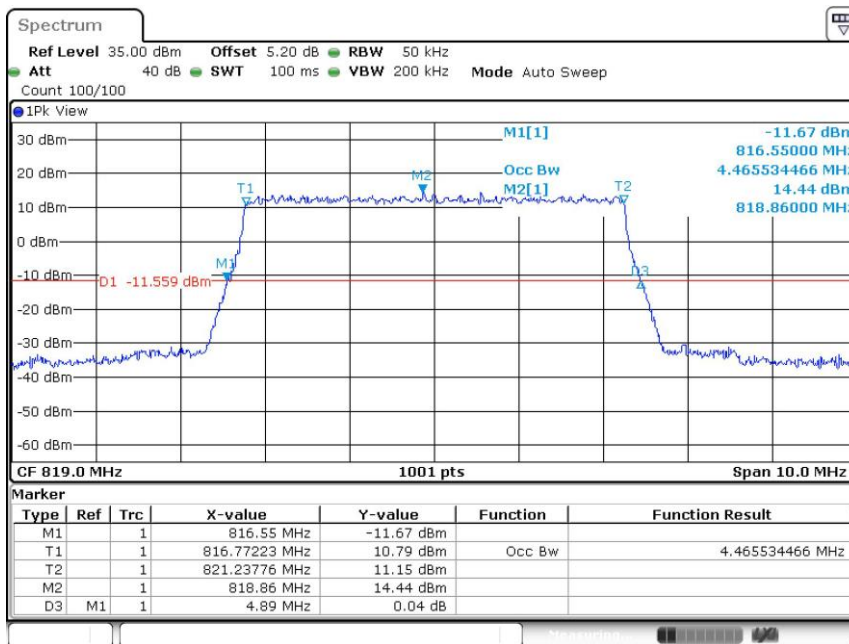
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Band26-5MHz-QPSK-26715-25RB#0



Date: 24.JUL.2021 19:45:33

Band26-5MHz-QPSK-26740-25RB#0

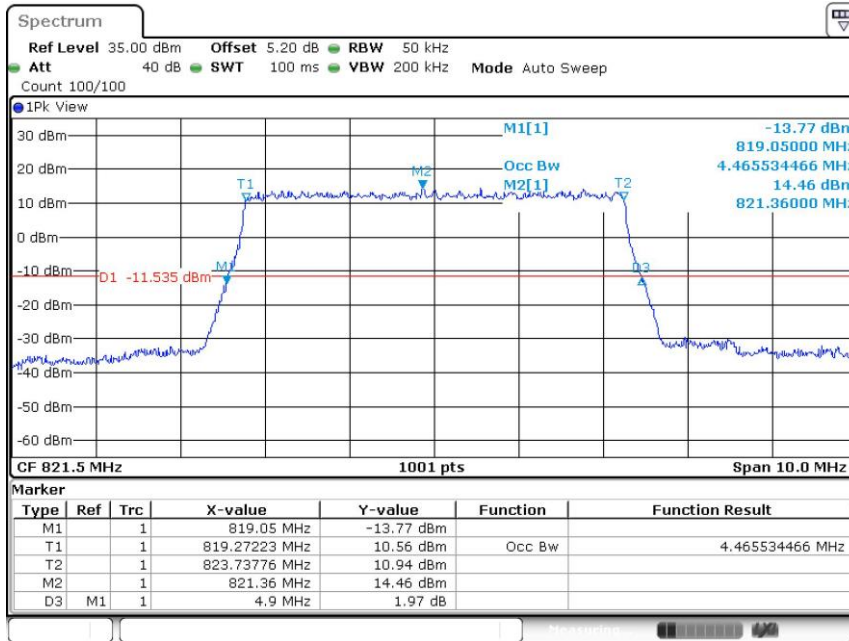


Date: 24.JUL.2021 19:46:22



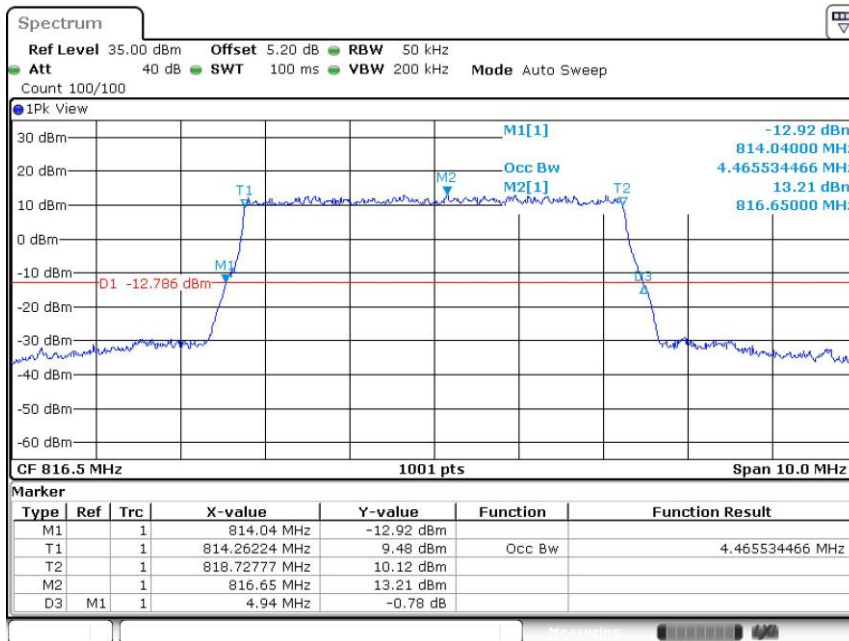
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Band26-5MHz-QPSK-26765-25RB#0



Date: 24.JUL.2021 19:47:12

Band26-5MHz-16QAM-26715-25RB#0

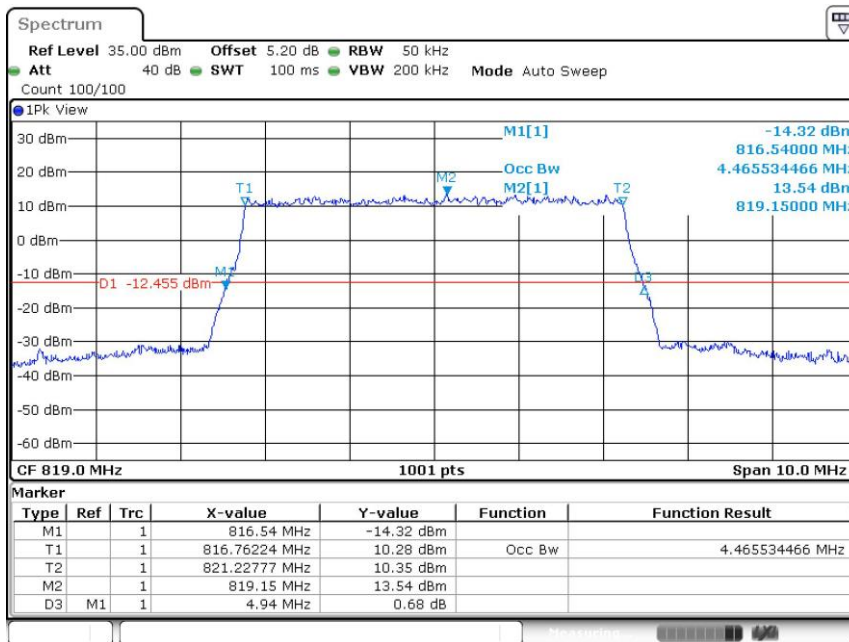


Date: 24.JUL.2021 19:45:58



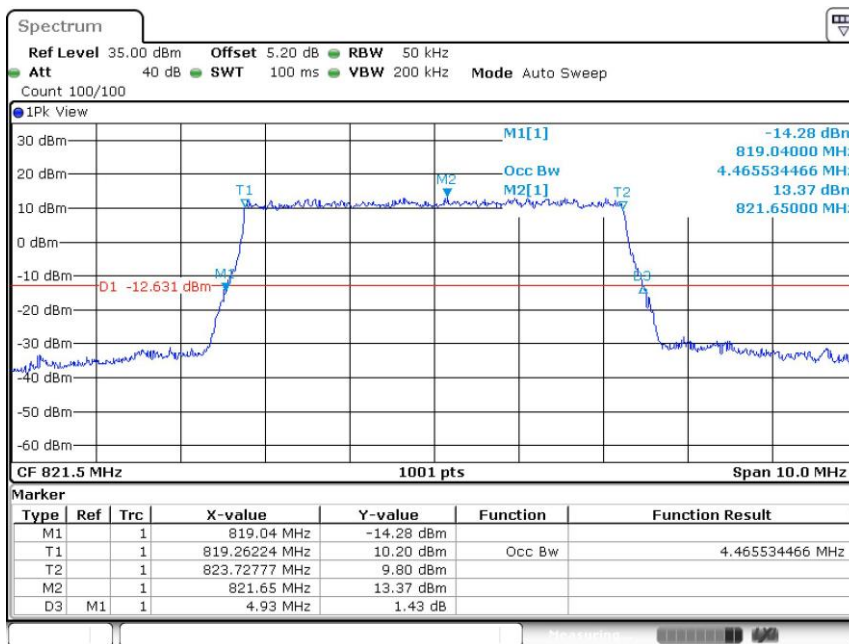
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Band26-5MHz-16QAM-26740-25RB#0



Date: 24.JUL.2021 19:46:47

Band26-5MHz-16QAM-26765-25RB#0



Date: 24.JUL.2021 19:47:36

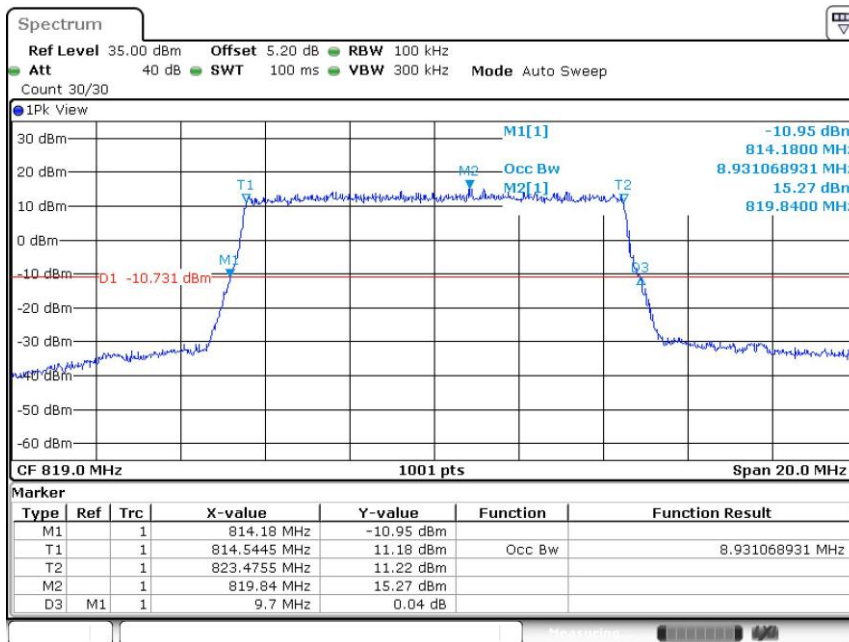


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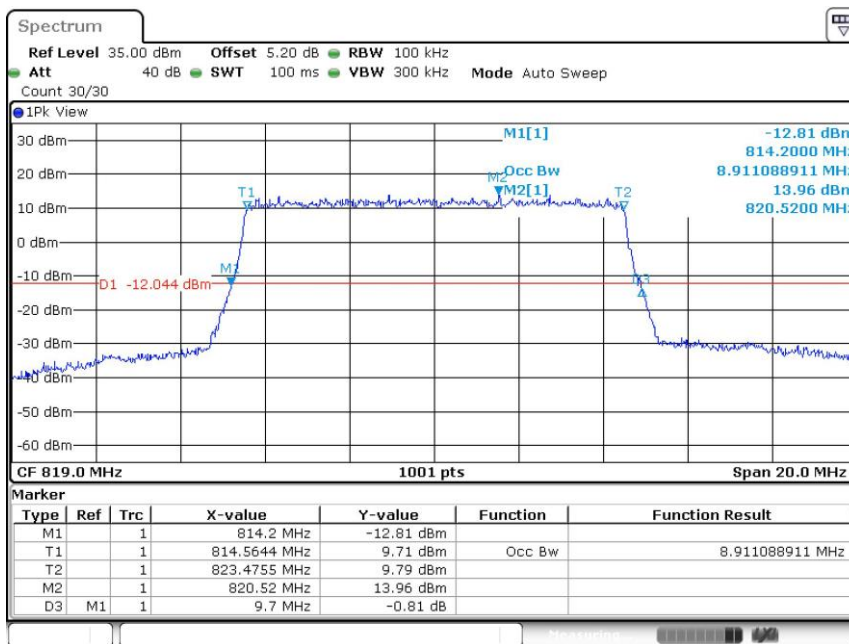
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Band26-10MHz-QPSK-26740-50RB#0



Date: 26.JUL.2021 08:54:26

Band26-10MHz-16QAM-26740-50RB#0



Date: 26.JUL.2021 08:54:44



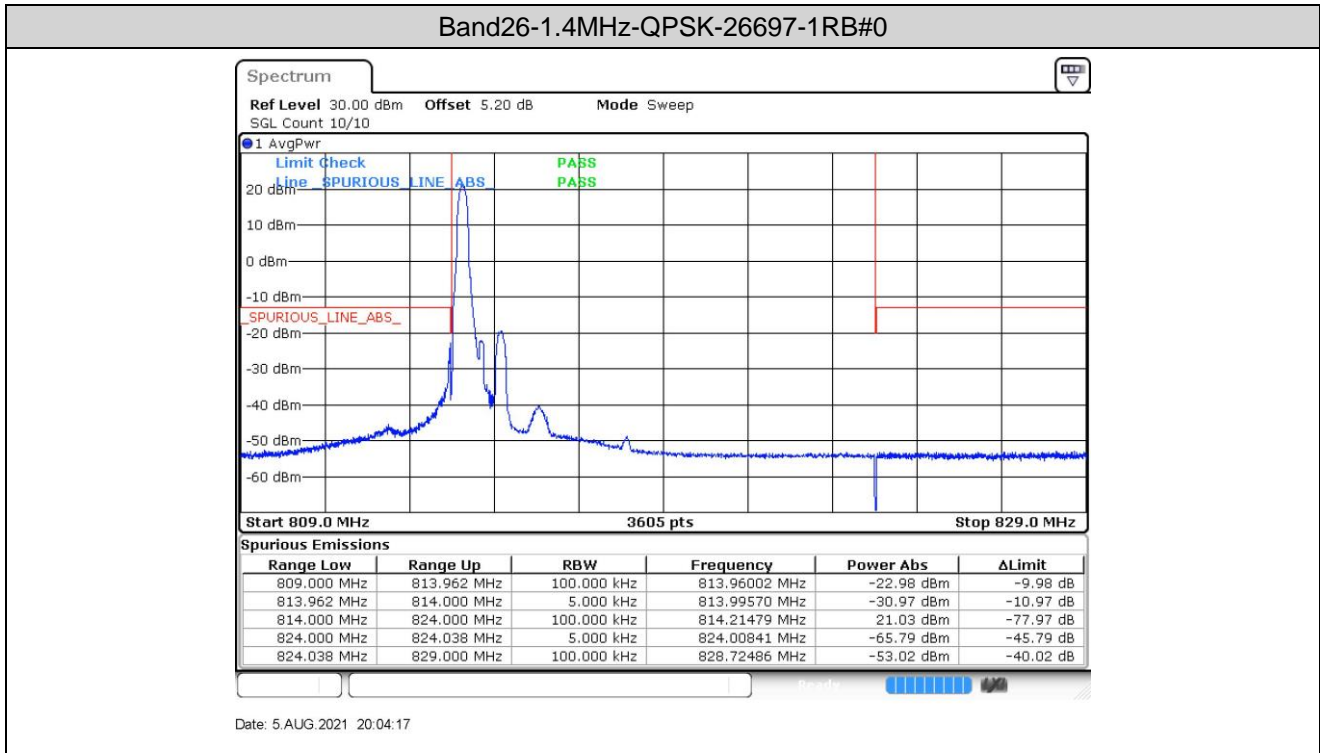
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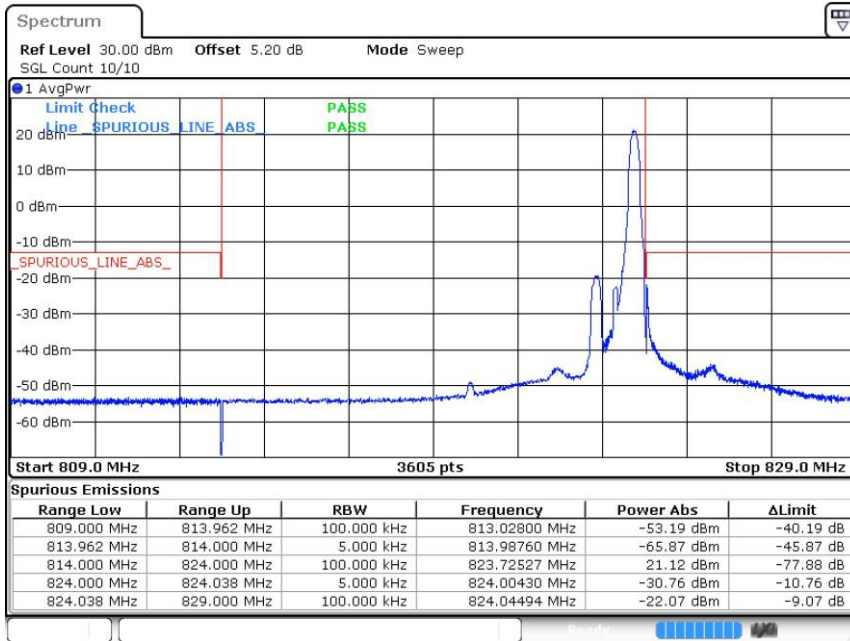
5. Band Edge Compliance

5.1. Test Plots



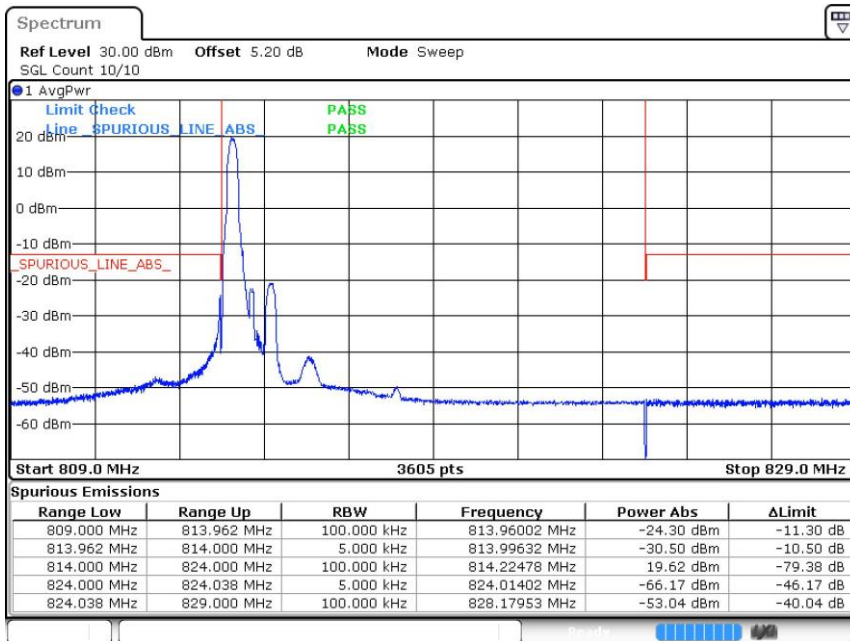
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Band26-1.4MHz-QPSK-26783-1RB#5



Date: 5.AUG.2021 20:05:16

Band26-1.4MHz-16QAM-26697-1RB#0

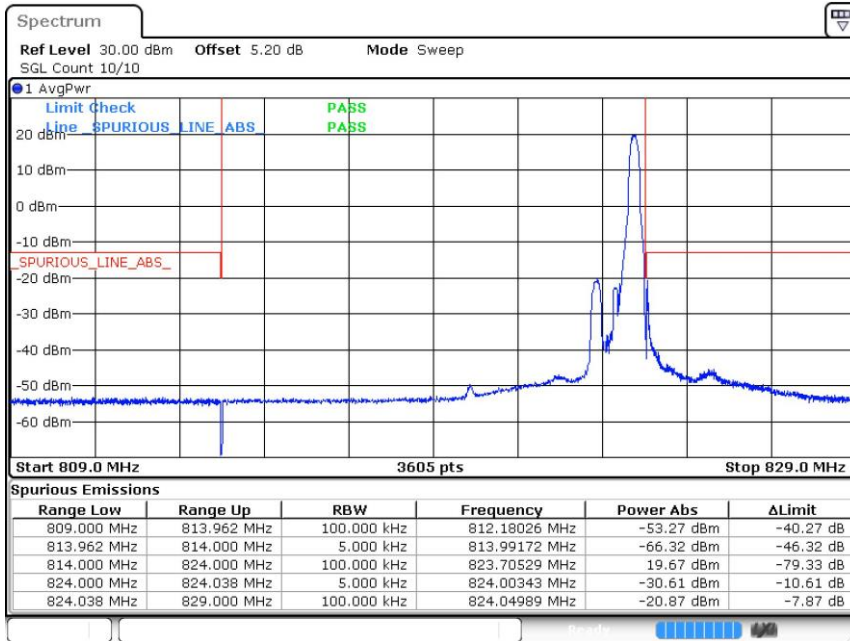


Date: 5.AUG.2021 20:04:38



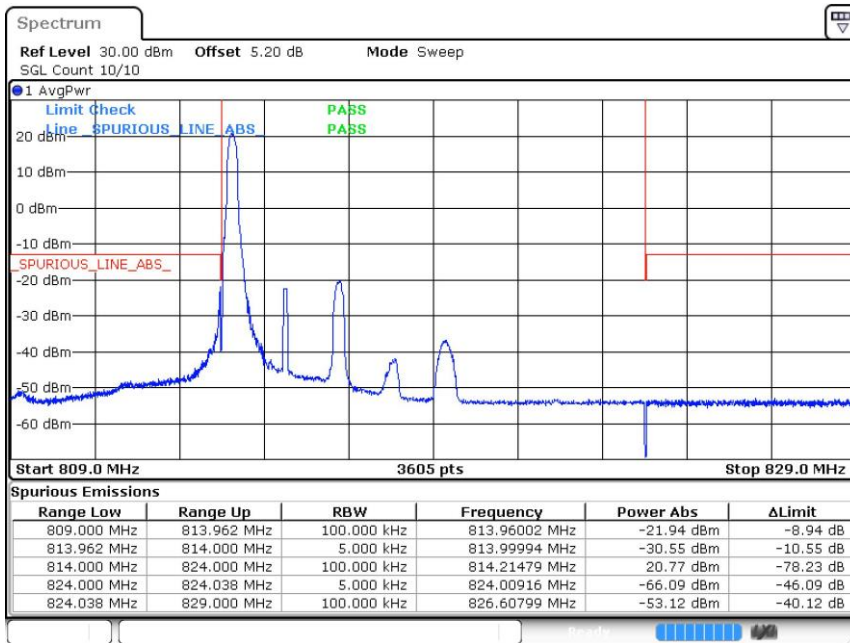
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Band26-1.4MHz-16QAM-26783-1RB#5



Date: 5.AUG.2021 20:05:37

Band26-3MHz-QPSK-26705-1RB#0

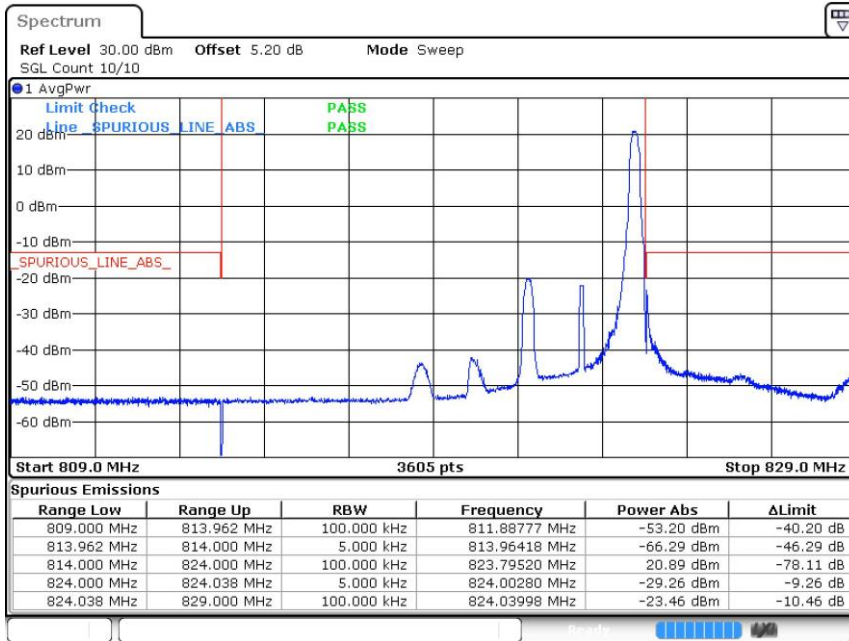


Date: 5.AUG.2021 20:06:19



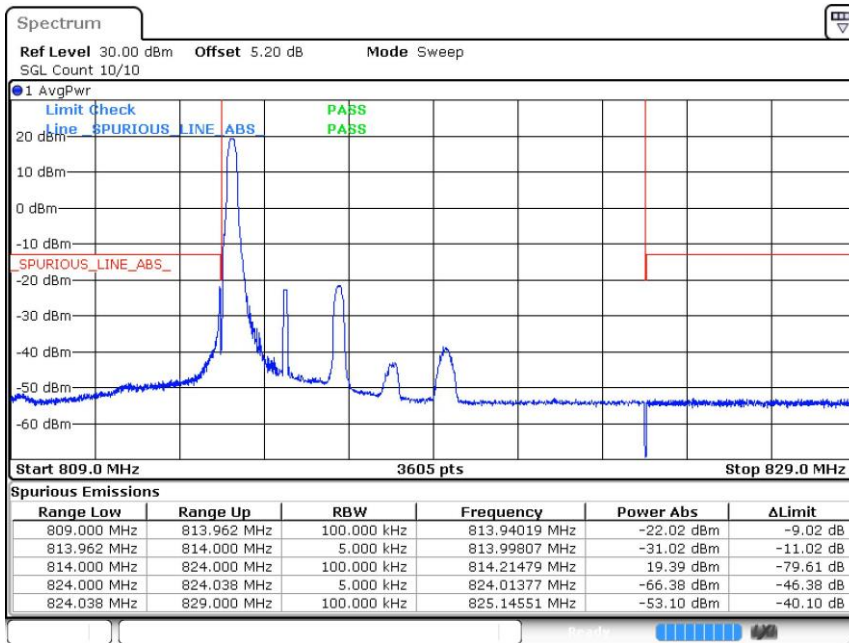
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Band26-3MHz-QPSK-26775-1RB#14



Date: 5.AUG.2021 20:07:21

Band26-3MHz-16QAM-26705-1RB#0



Date: 5.AUG.2021 20:06:40

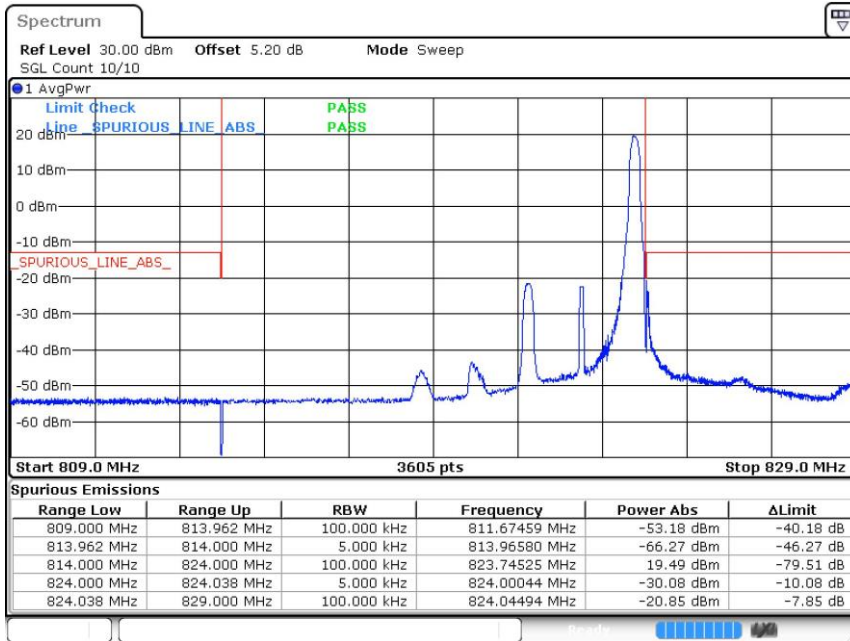


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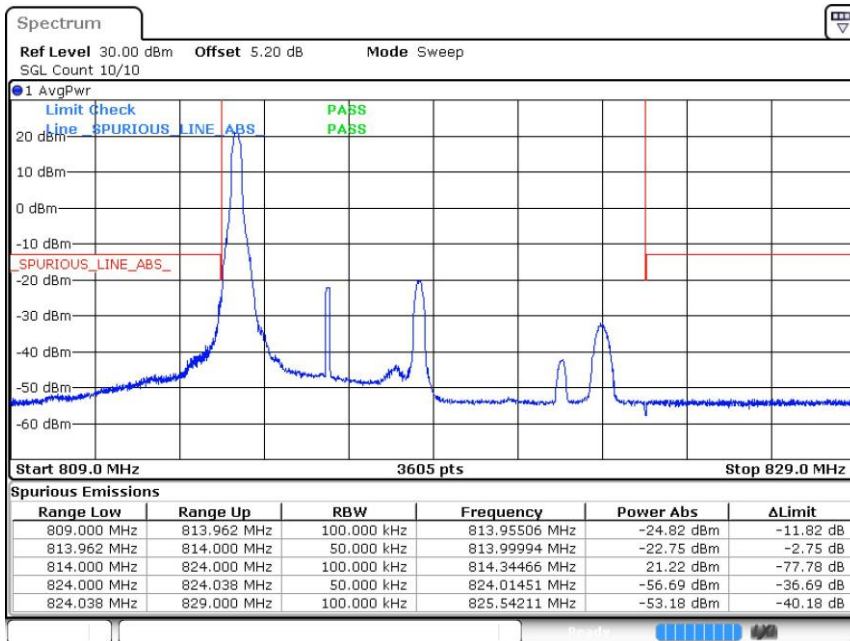
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Band26-3MHz-16QAM-26775-1RB#14



Date: 5.AUG.2021 20:07:42

Band26-5MHz-QPSK-26715-1RB#0



Date: 26.JUL.2021 09:16:47

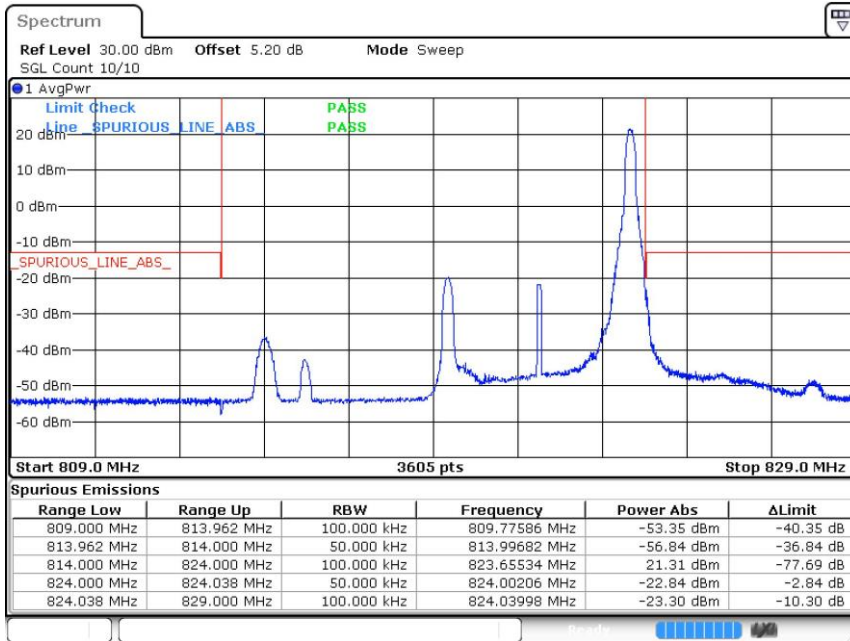


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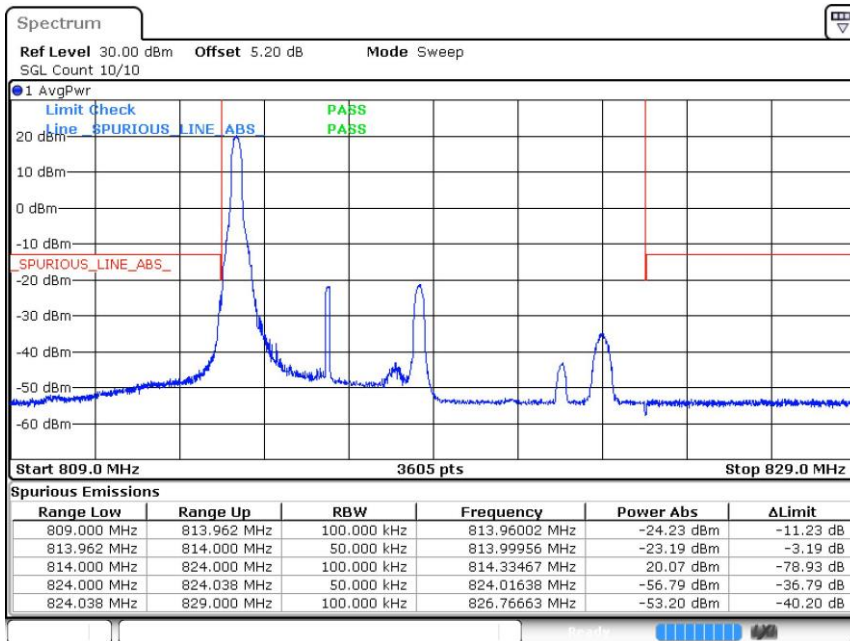
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Band26-5MHz-QPSK-26765-1RB#24



Date: 26 JUL 2021 09:17:49

Band26-5MHz-16QAM-26715-1RB#0

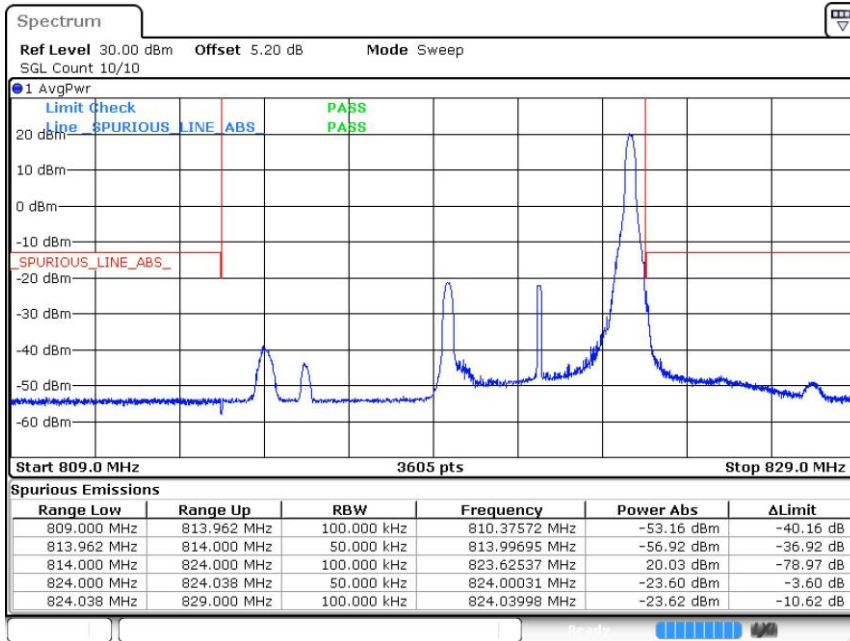


Date: 26 JUL 2021 09:17:09



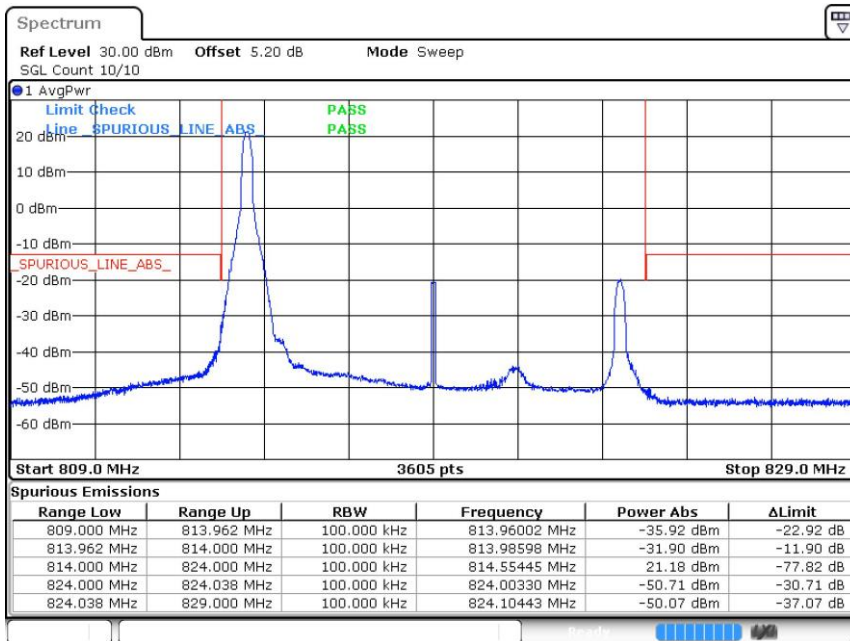
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Band26-5MHz-16QAM-26765-1RB#24



Date: 26.JUL.2021 09:18:10

Band26-10MHz-QPSK-26740-1RB#0

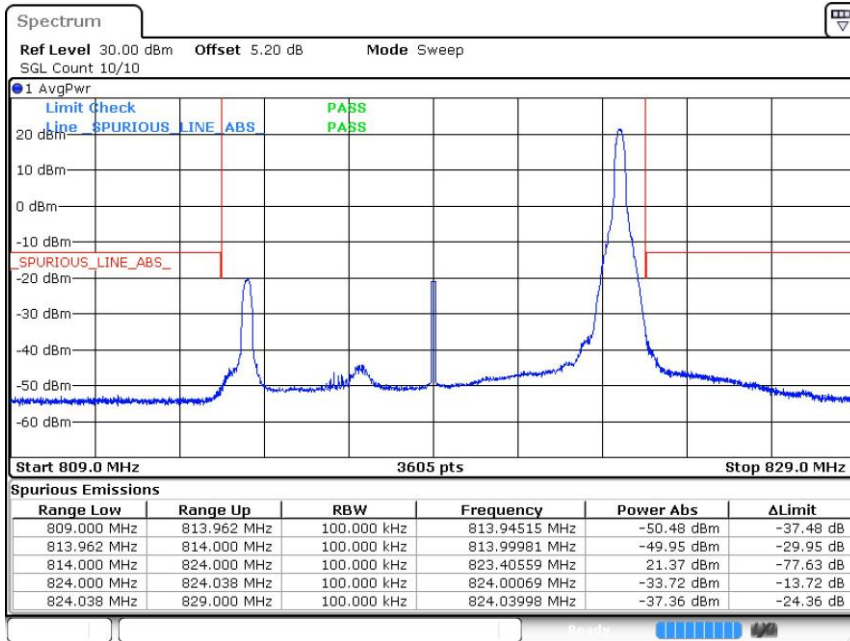


Date: 26.JUL.2021 09:19:02



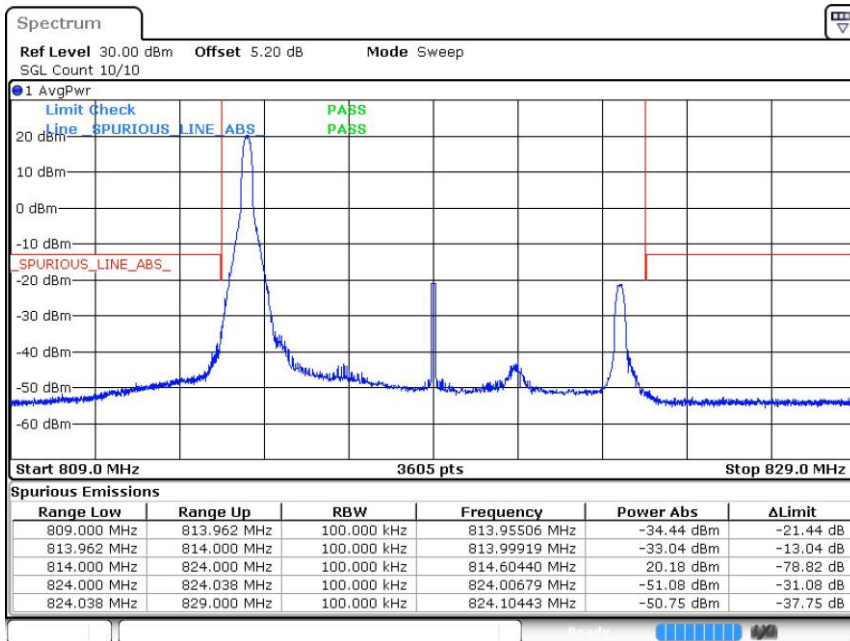
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Band26-10MHz-QPSK-26740-1RB#49



Date: 26.JUL.2021 09:19:56

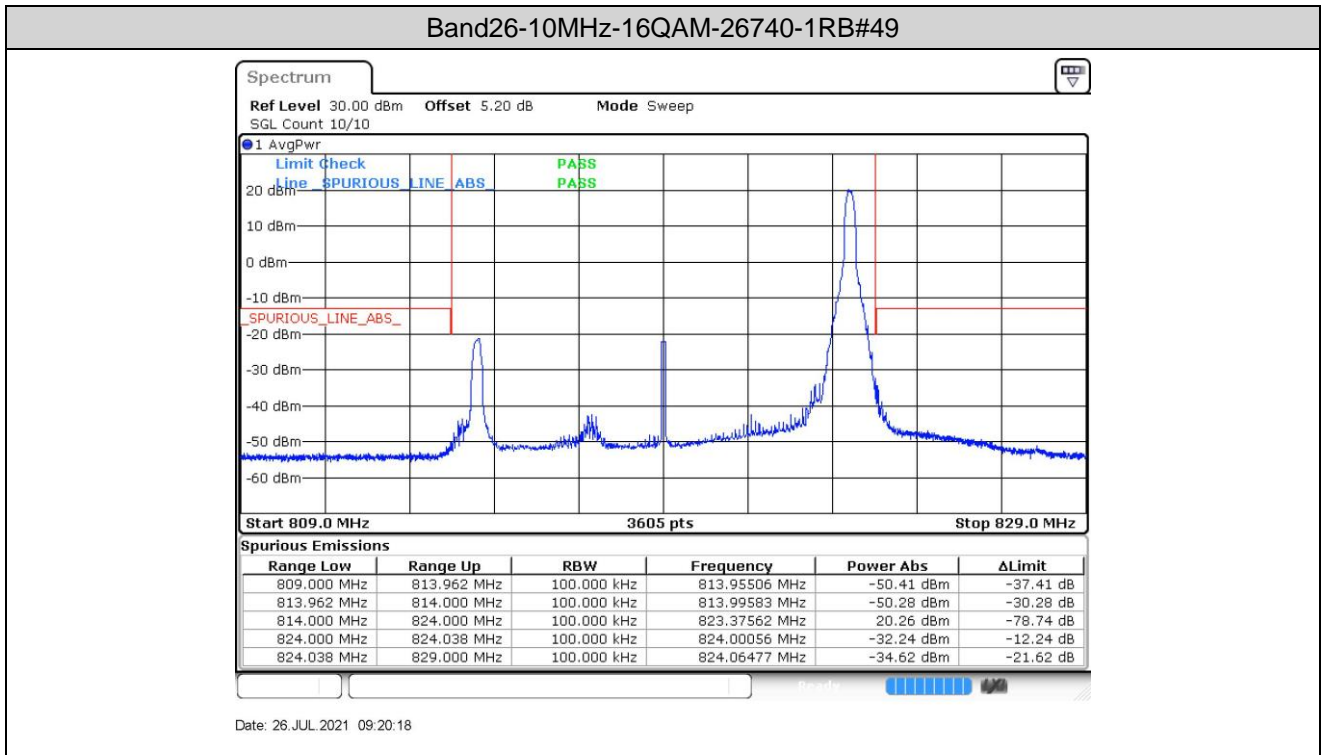
Band26-10MHz-16QAM-26740-1RB#0



Date: 26.JUL.2021 09:19:24



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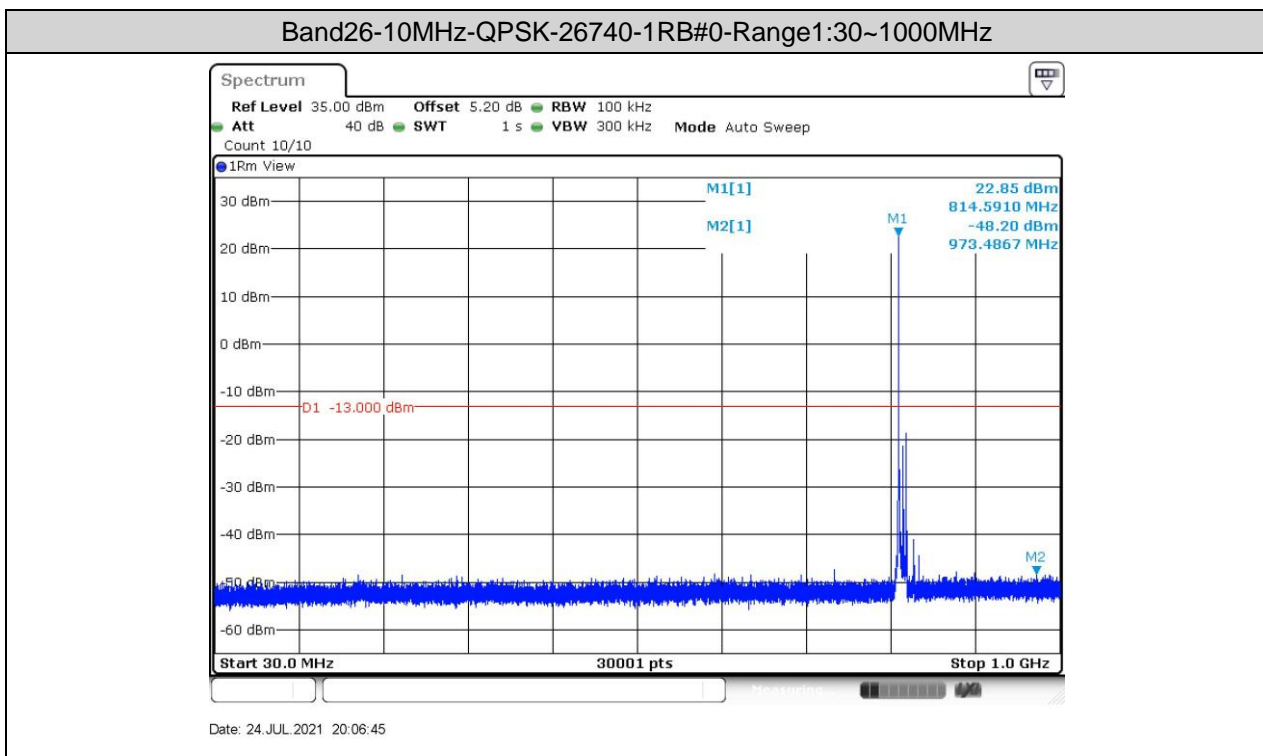
6. Spurious Emission at Antenna Terminal

Remark1: 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 narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

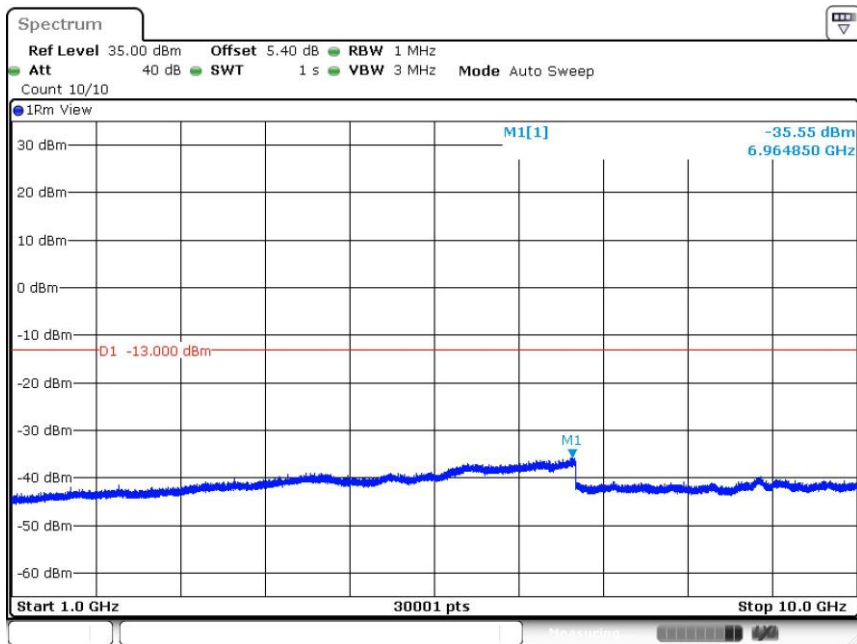
Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots



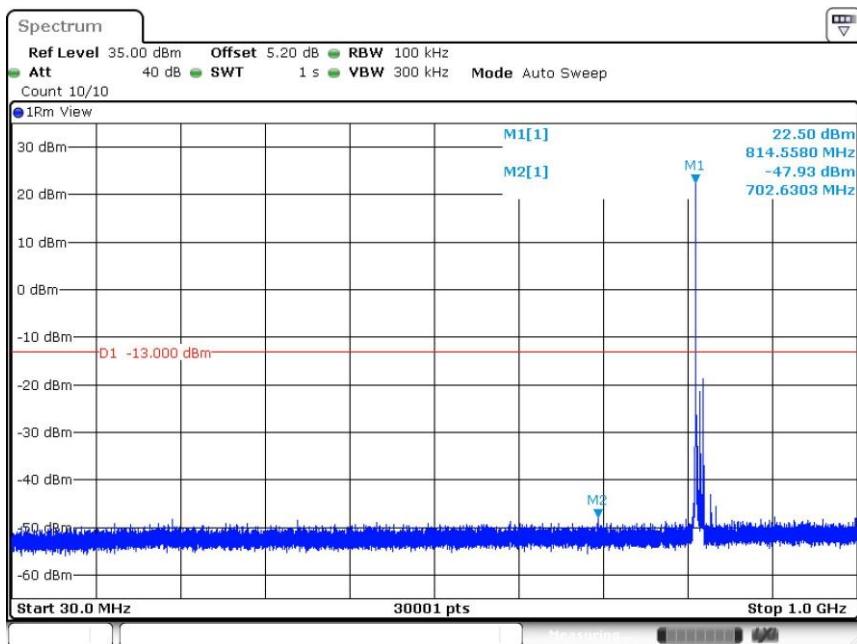
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Band26-10MHz-QPSK-26740-1RB#0-Range2:1000~10000MHz



Date: 24.JUL.2021 20:07:01

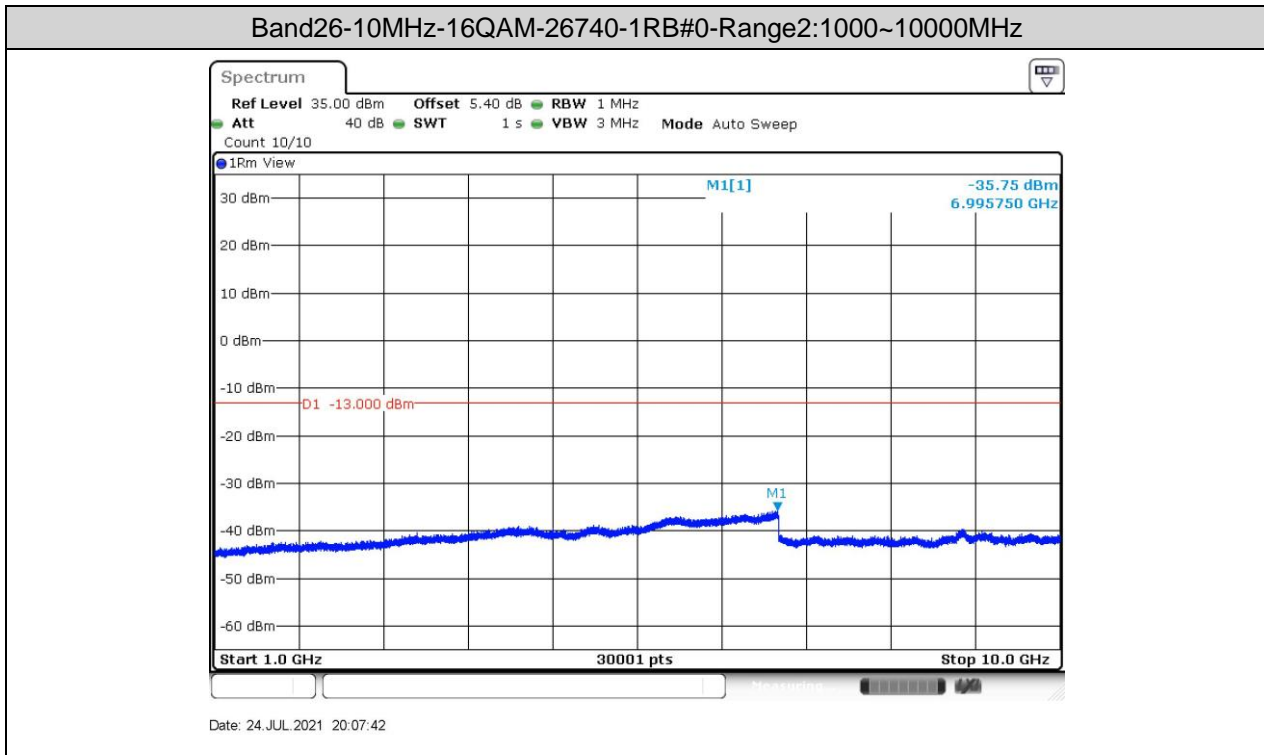
Band26-10MHz-16QAM-26740-1RB#0-Range1:30~1000MHz



Date: 24.JUL.2021 20:07:26



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7. Frequency Stability

7.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage					
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-2.20	-0.002686	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-4.70	-0.005739	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.00	-0.002442	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	-1.30	-0.001587	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-2.60	-0.003175	±2.5	PASS



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7.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-1.30	-0.001587	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-2.70	-0.003297	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.50	-0.001832	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.20	-0.002686	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-1.20	-0.001465	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-10	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	-1.60	-0.001954	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-2.00	-0.002442	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	-2.70	-0.003297	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-2.20	-0.002686	±2.5	PASS

The End



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