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Appendix B.9

LTE Cat-M1 Band26(814-824)



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Transmitter Conducted Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit (dBm)	Verdict
Band26(814-824)	1.4M	QPSK	L	1RB0	20.69	50	PASS
Band26(814-824)	1.4M	QPSK	L	1RB5	20.41	50	PASS
Band26(814-824)	1.4M	QPSK	L	6RB0	18.36	50	PASS
Band26(814-824)	1.4M	QPSK	M	1RB0	20.54	50	PASS
Band26(814-824)	1.4M	QPSK	M	1RB5	20.46	50	PASS
Band26(814-824)	1.4M	QPSK	M	6RB0	18.44	50	PASS
Band26(814-824)	1.4M	QPSK	H	1RB0	20.58	50	PASS
Band26(814-824)	1.4M	QPSK	H	1RB5	20.46	50	PASS
Band26(814-824)	1.4M	QPSK	H	6RB0	18.53	50	PASS
Band26(814-824)	3M	QPSK	L	1RB0	20.44	50	PASS
Band26(814-824)	3M	QPSK	L	1RB5	20.45	50	PASS
Band26(814-824)	3M	QPSK	L	6RB0	18.43	50	PASS
Band26(814-824)	3M	QPSK	M	1RB0	20.32	50	PASS
Band26(814-824)	3M	QPSK	M	1RB5	20.52	50	PASS
Band26(814-824)	3M	QPSK	M	6RB0	18.63	50	PASS
Band26(814-824)	3M	QPSK	H	1RB0	20.32	50	PASS
Band26(814-824)	3M	QPSK	H	1RB5	20.41	50	PASS
Band26(814-824)	3M	QPSK	H	6RB0	18.96	50	PASS
Band26(814-824)	5M	QPSK	L	1RB0	20.64	50	PASS
Band26(814-824)	5M	QPSK	L	1RB5	20.52	50	PASS
Band26(814-824)	5M	QPSK	L	6RB0	19.63	50	PASS
Band26(814-824)	5M	QPSK	M	1RB0	20.52	50	PASS
Band26(814-824)	5M	QPSK	M	1RB5	20.43	50	PASS
Band26(814-824)	5M	QPSK	M	6RB0	19.43	50	PASS
Band26(814-824)	5M	QPSK	H	1RB0	20.56	50	PASS
Band26(814-824)	5M	QPSK	H	1RB5	20.36	50	PASS
Band26(814-824)	5M	QPSK	H	6RB0	19.47	50	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	5MHz	QPSK	26715	6RB#0	8.82	13	PASS
Band26	5MHz	QPSK	26740	6RB#0	8.90	13	PASS
Band26	5MHz	QPSK	26765	6RB#0	8.88	13	PASS



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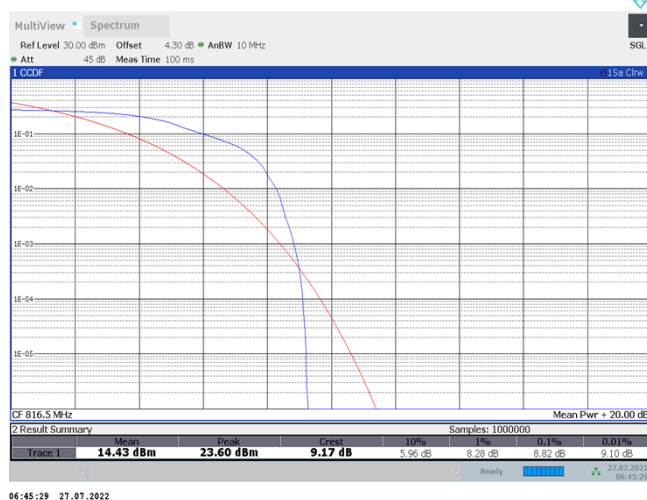
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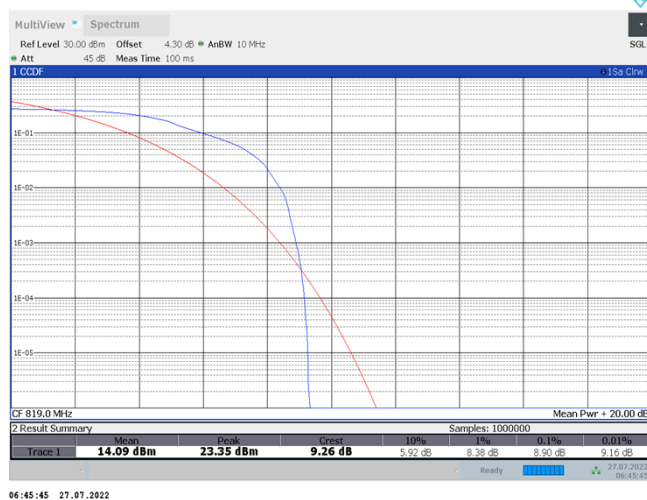
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Test Graphs

Band26-5MHz-QPSK-26715-6RB#0



Band26-5MHz-QPSK-26740-6RB#0



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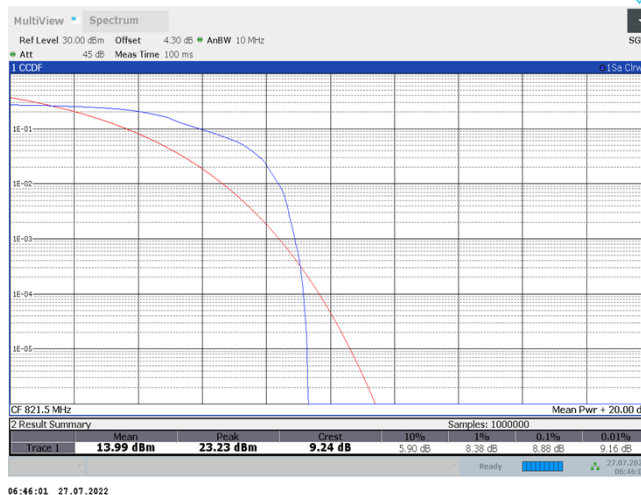
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Band26-5MHz-QPSK-26765-6RB#0



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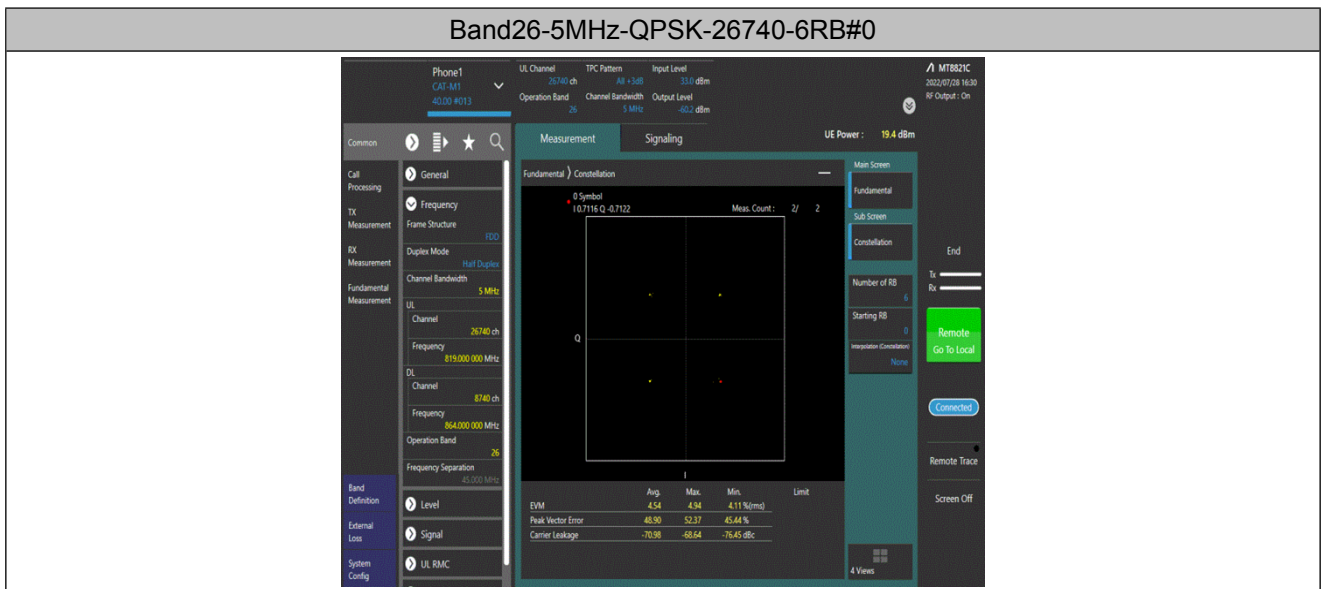
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	5MHz	QPSK	26740	6RB#0	PASS	PASS

Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.072	1.16	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.088	1.26	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.091	1.30	PASS
Band26	3MHz	QPSK	26705	6RB#0	1.079	1.19	PASS
Band26	3MHz	QPSK	26740	6RB#0	1.113	1.37	PASS
Band26	3MHz	QPSK	26775	6RB#0	1.097	1.36	PASS
Band26	5MHz	QPSK	26715	6RB#0	1.093	1.26	PASS
Band26	5MHz	QPSK	26740	6RB#0	1.121	1.43	PASS
Band26	5MHz	QPSK	26765	6RB#0	1.126	1.41	PASS



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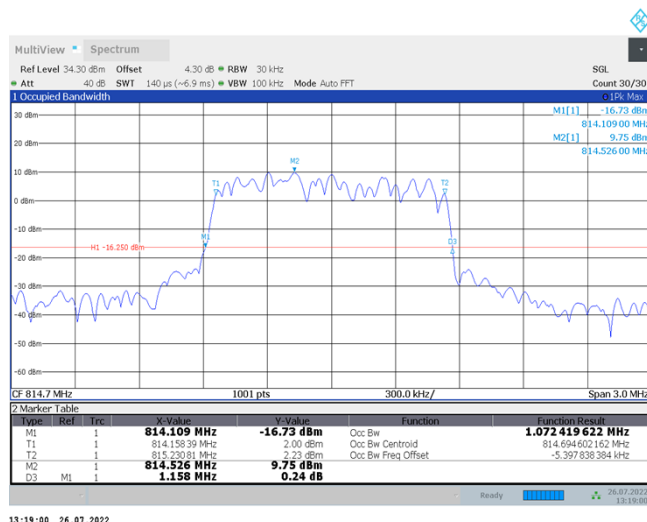
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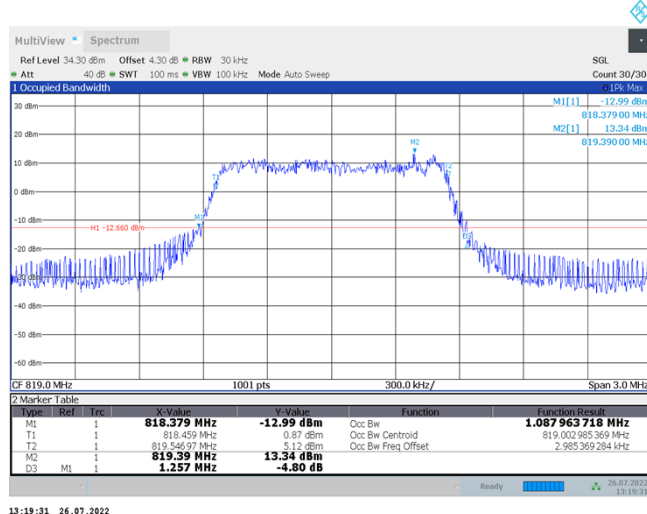
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Test Graphs

Band26-1.4MHz-QPSK-26697-6RB#0



Band26-1.4MHz-QPSK-26740-6RB#0



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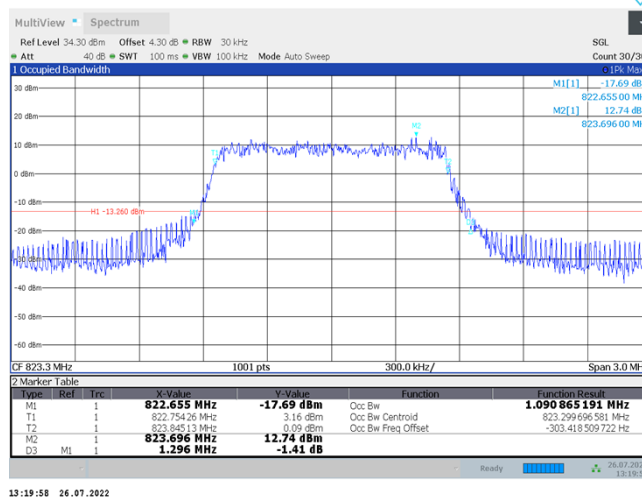
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Band26-1.4MHz-QPSK-26783-6RB#0



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Band26-3MHz-QPSK-26705-6RB#0



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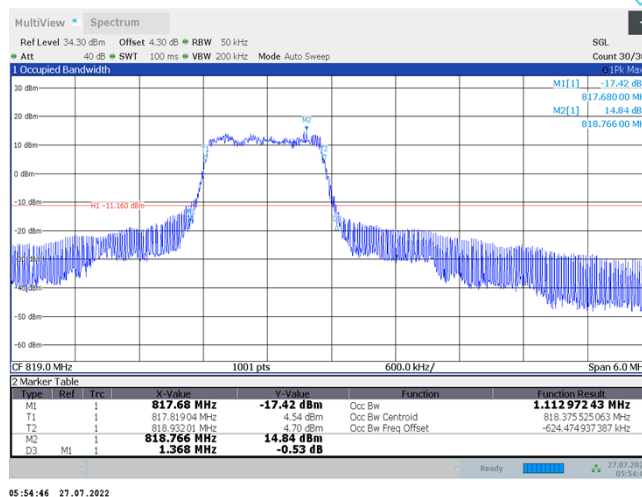
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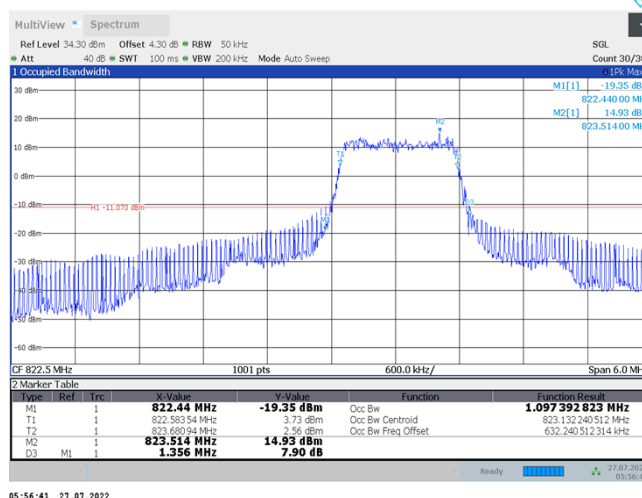
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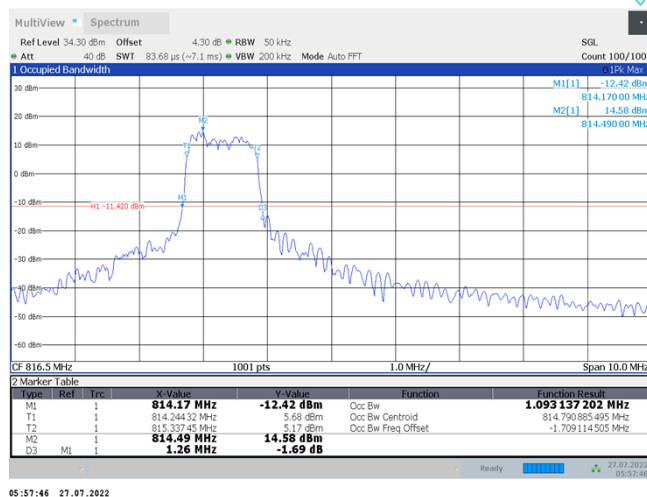
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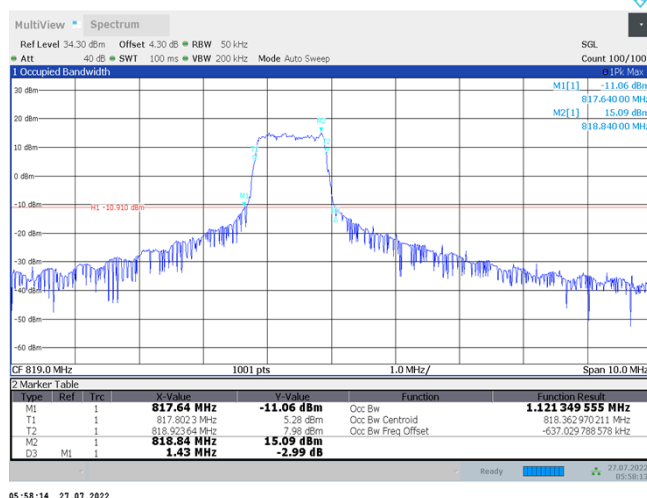
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Band26-5MHz-QPSK-26740-6RB#0



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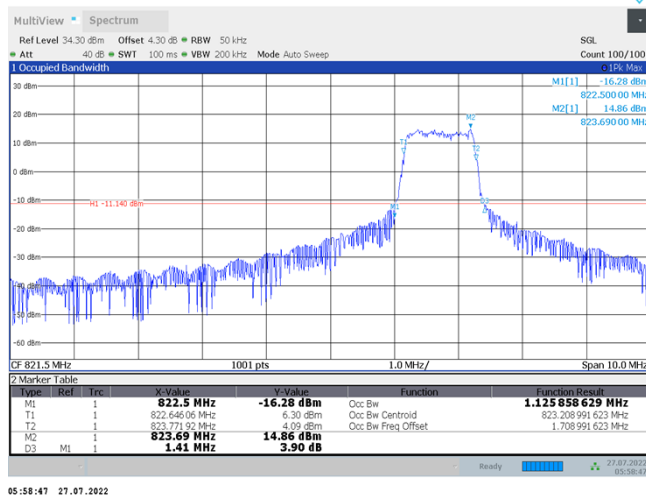
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05:58:47 27.07.2022



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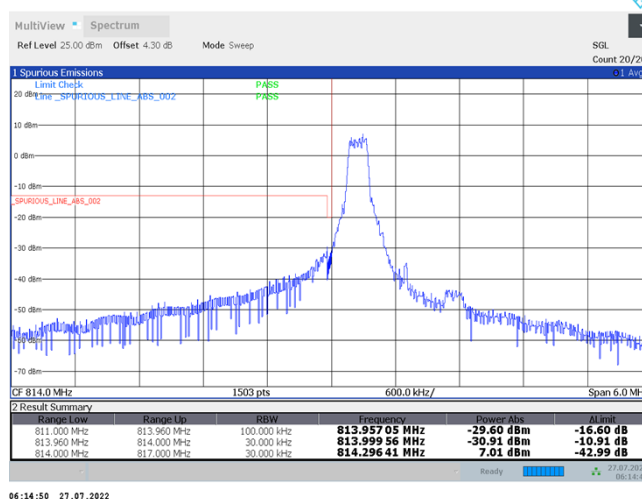
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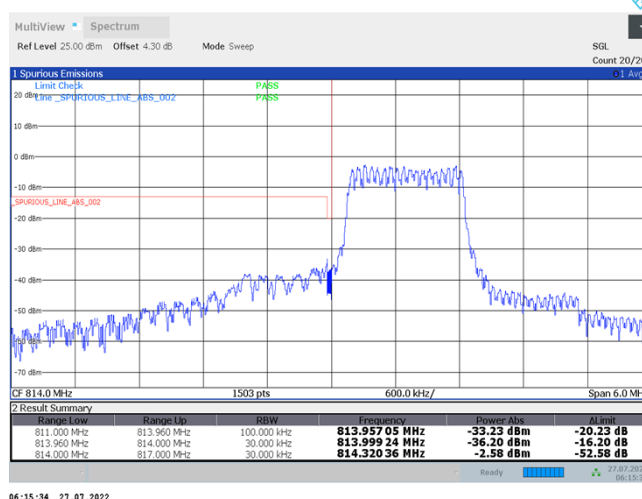
Band Edge

Test Graphs

Band26-1.4MHz-QPSK-26697-1RB#0



Band26-1.4MHz-QPSK-26697-6RB#0



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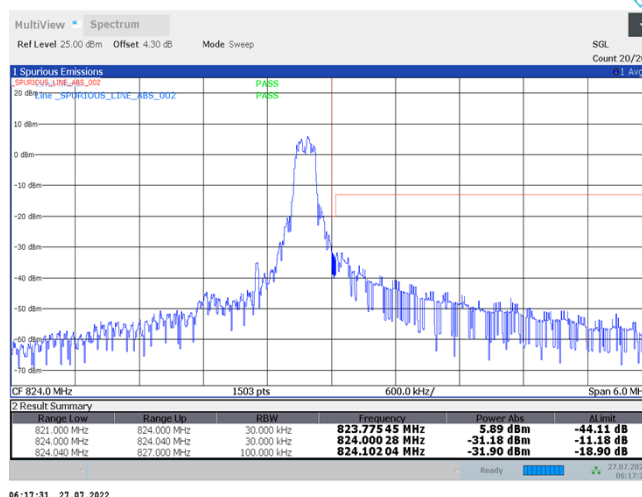
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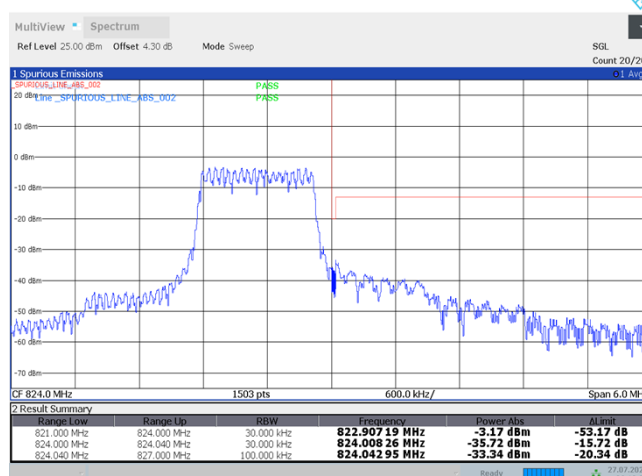
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Band26-1.4MHz-QPSK-26783-1RB#5



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



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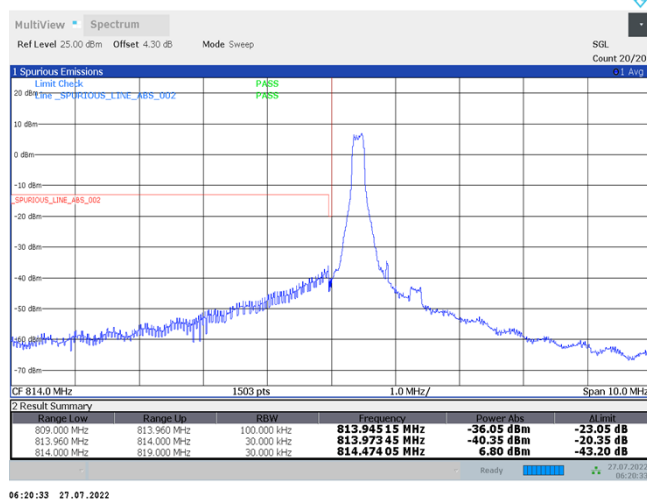
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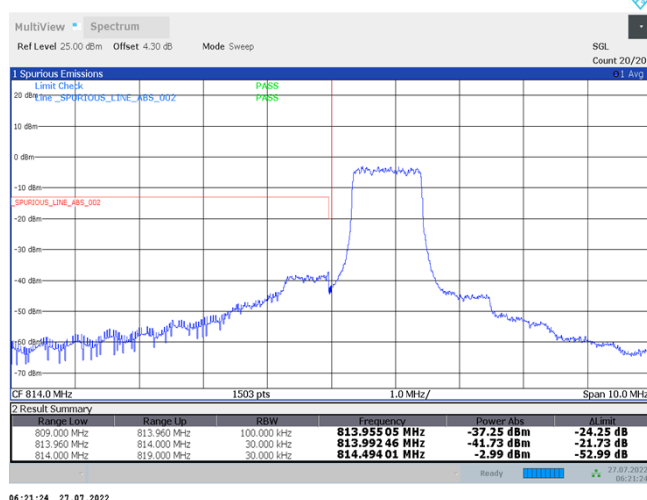
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Band26-3MHz-QPSK-26705-1RB#0



Band26-3MHz-QPSK-26705-6RB#0



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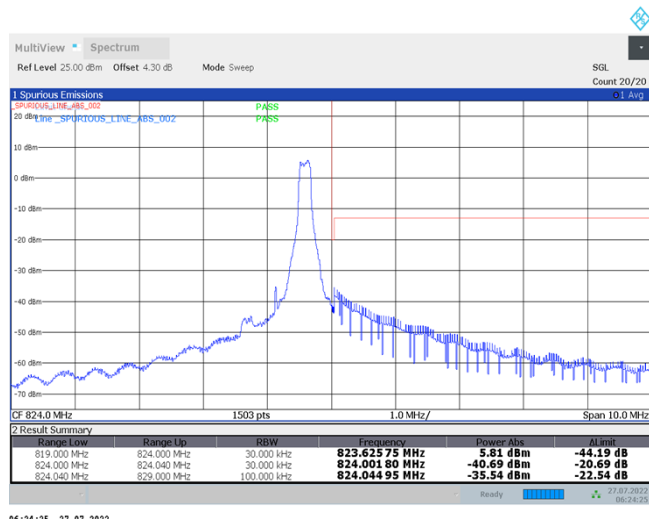
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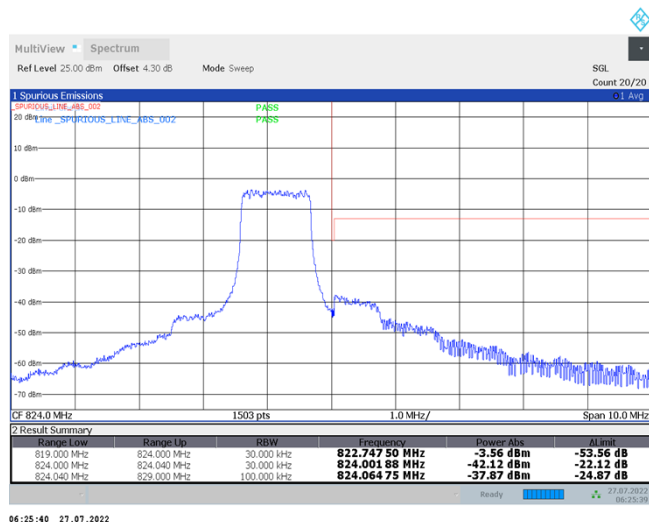
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Band26-3MHz-QPSK-26775-1RB#14



Band26-3MHz-QPSK-26775-6RB#0



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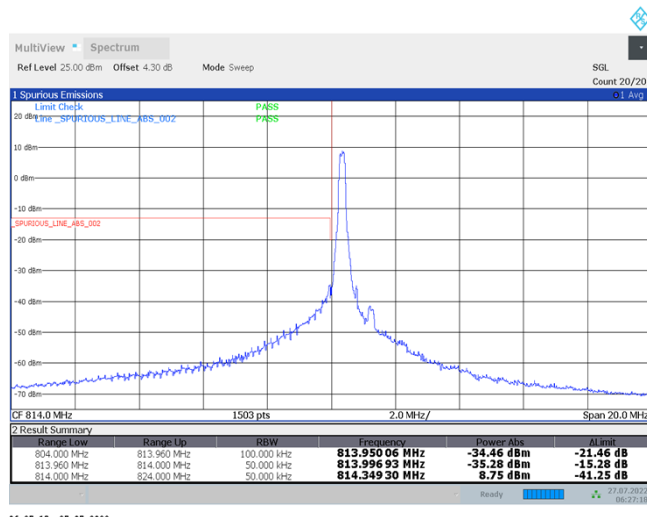
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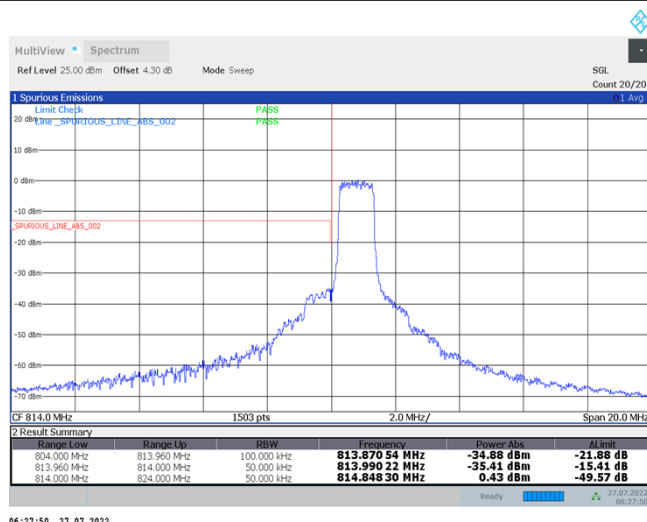
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Band26-5MHz-QPSK-26715-1RB#0



Band26-5MHz-QPSK-26715-6RB#0



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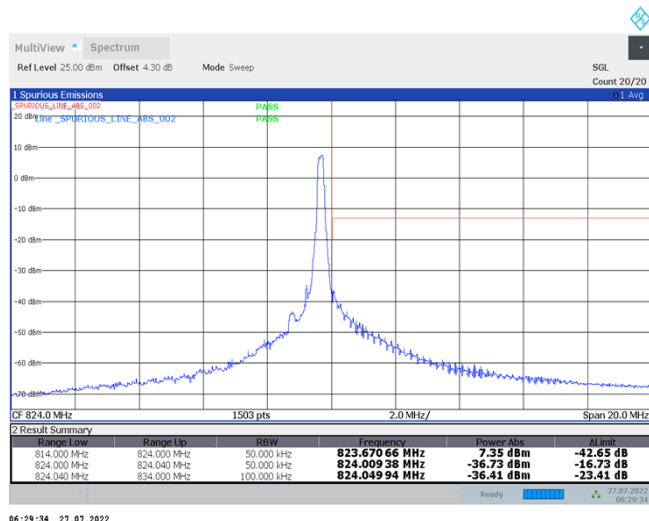
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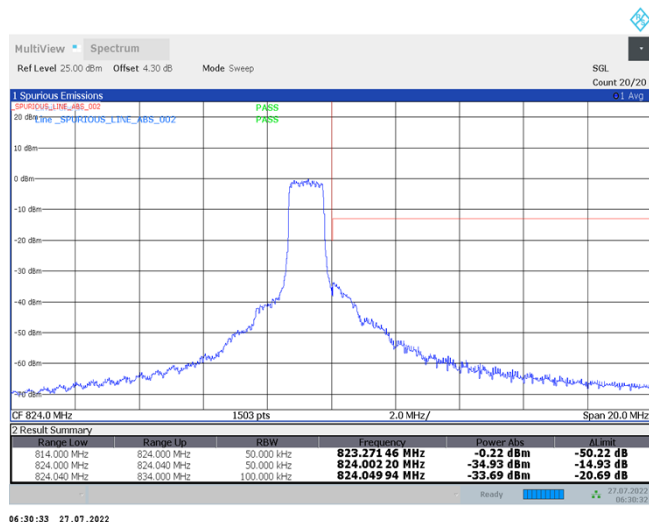
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Band26-5MHz-QPSK-26765-1RB#24



Band26-5MHz-QPSK-26765-6RB#0



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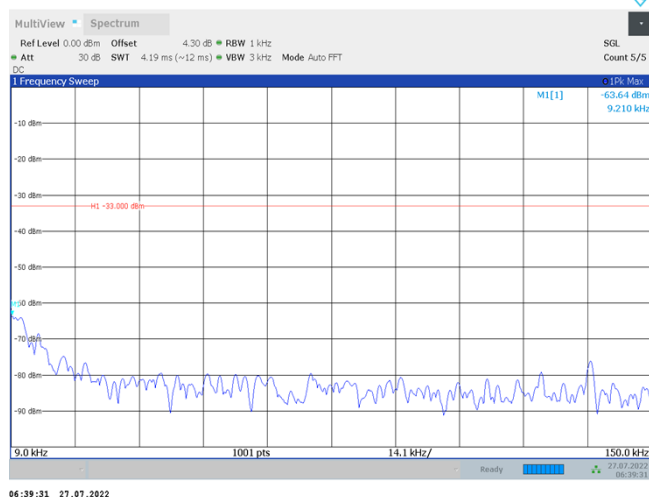
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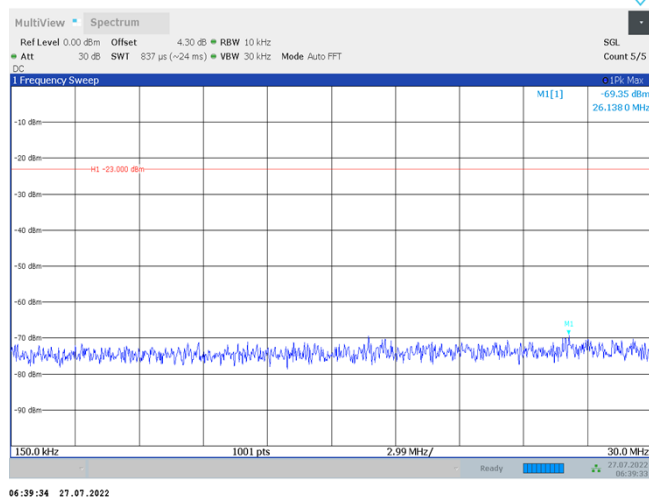
Conducted Spurious Emission

Test Graphs

Band26-5MHz-QPSK-26715-1RB#0-Range1:0.009~0.15MHz



Band26-5MHz-QPSK-26715-1RB#0-Range2:0.15~30MHz



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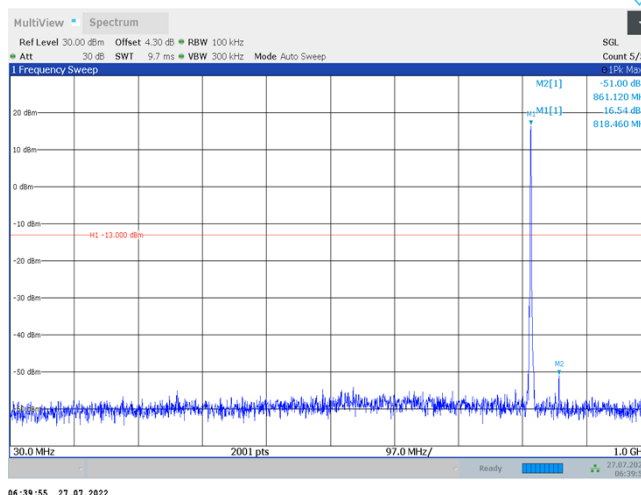
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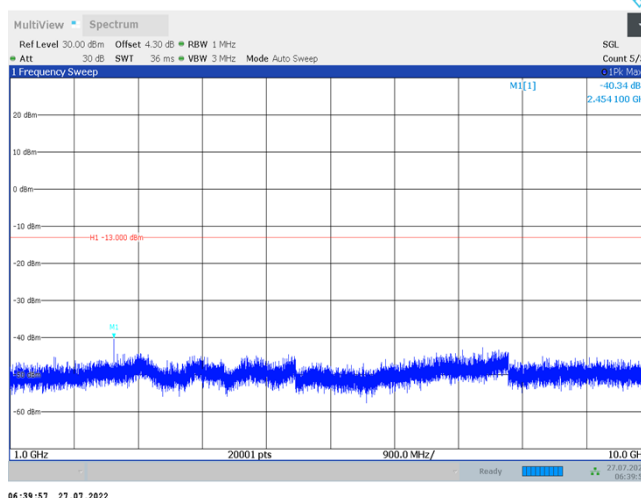
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Band26-5MHz-QPSK-26715-1RB#0-Range3:30~1000MHz



Band26-5MHz-QPSK-26715-1RB#0-Range4:1000~10000MHz



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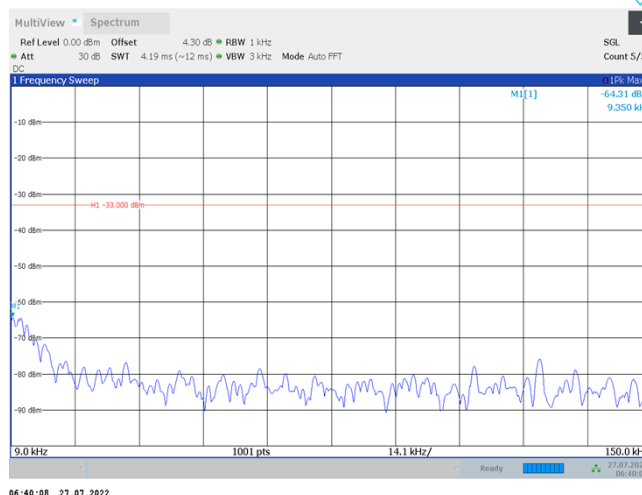
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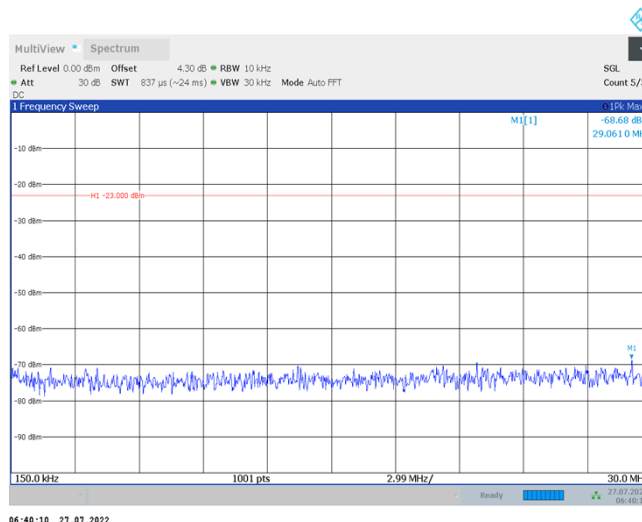
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Band26-5MHz-QPSK-26740-1RB#0-Range1:0.009~0.15MHz



Band26-5MHz-QPSK-26740-1RB#0-Range2:0.15~30MHz



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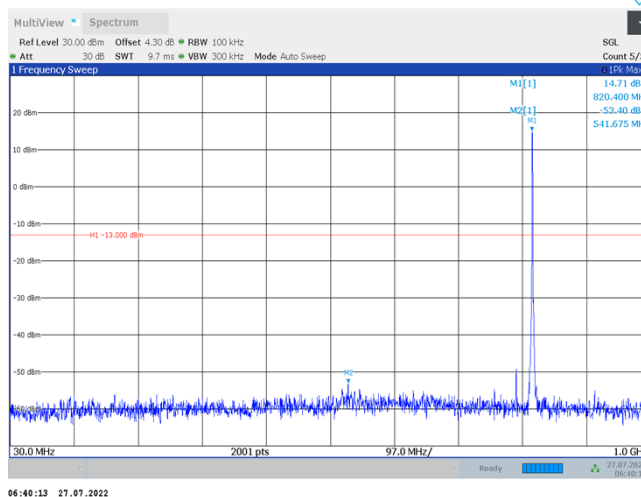
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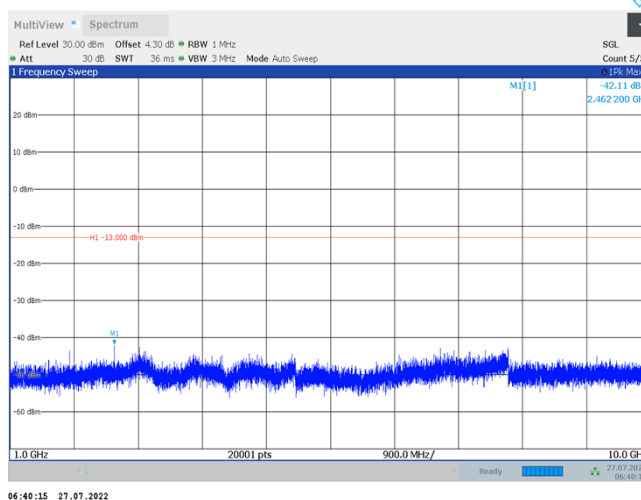
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Band26-5MHz-QPSK-26740-1RB#0-Range4:1000~10000MHz



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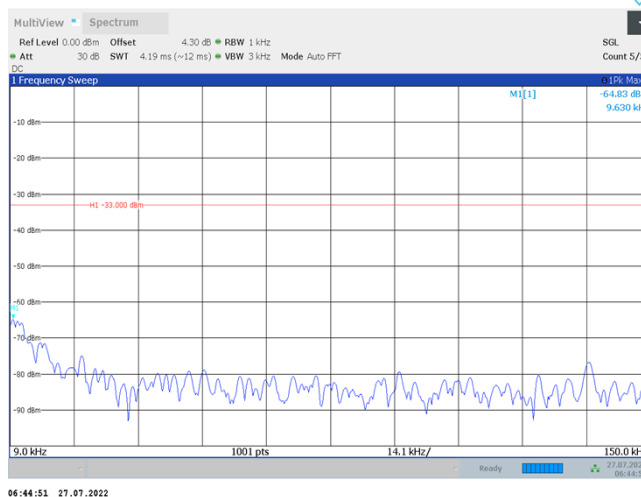
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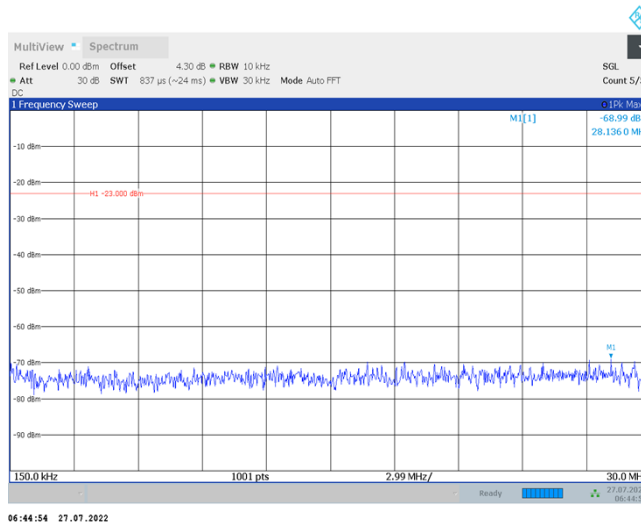
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Band26-5MHz-QPSK-26765-1RB#0-Range1:0.009~0.15MHz



Band26-5MHz-QPSK-26765-1RB#0-Range2:0.15~30MHz



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

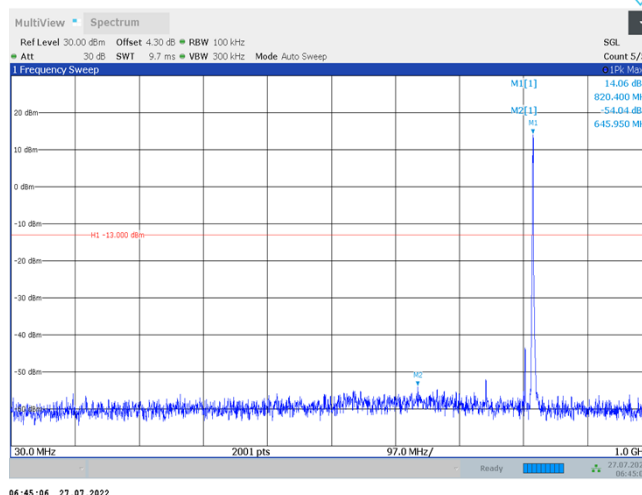
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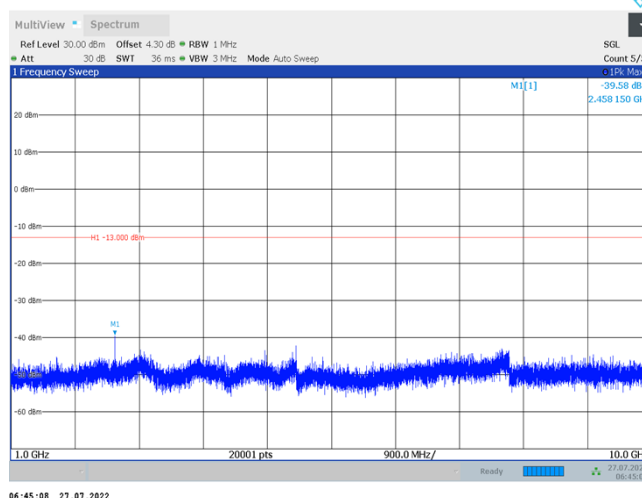
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Band26-5MHz-QPSK-26765-1RB#0-Range3:30~1000MHz



Band26-5MHz-QPSK-26765-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = CAT M1 Band 26_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	69.54	-48.24	25.36	-48.60	-13.00	35.60	167	200	Horizontal
2	2443.7700	75.07	-47.37	27.59	-39.98	-13.00	26.98	214	147	Horizontal
3	3258.3600	53.75	-46.52	29.61	-58.42	-13.00	45.42	258	93	Horizontal
4	4073.7143	53.25	-45.98	30.91	-57.08	-13.00	44.08	183	93	Horizontal
5	4887.5400	48.83	-45.59	32.57	-59.45	-13.00	46.45	196	28	Horizontal
6	5702.1300	49.29	-44.57	33.39	-57.15	-13.00	44.15	171	120	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.1800	54.84	-48.24	25.36	-63.30	-13.00	50.30	173	0	Vertical
2	2444.5714	61.84	-47.37	27.59	-53.20	-13.00	40.20	216	138	Vertical
3	3258.3600	50.89	-46.52	29.61	-61.28	-13.00	48.28	253	97	Vertical
4	4072.9500	49.68	-45.98	30.91	-60.65	-13.00	47.65	281	255	Vertical
5	4887.5400	51.22	-45.59	32.57	-57.06	-13.00	44.06	197	71	Vertical
6	5702.1300	48.38	-44.57	33.39	-58.06	-13.00	45.06	129	295	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

dBm = dBμV – 95.26



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

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Frequency Stability

Test Result

Voltage										
Band	Bandwidth h	Modulation n	Channel l	RB Configur e	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2 6	5MHz	QPSK	26740	6RB#0	VL	NT	3.00	0.003663	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	VN	NT	-4.70	- 0.005739	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	VH	NT	0.90	0.001099	±2.5	PASS

Temperature										
Band	Bandwidth h	Modulation n	Channel l	RB Configur e	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2 6	5MHz	QPSK	26740	6RB#0	NV	-30	-5.00	- 0.006105	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	-20	-4.50	- 0.005495	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	-10	-3.90	- 0.004762	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	0	-6.30	- 0.007692	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	10	-0.10	- 0.000122	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	20	-1.90	- 0.002320	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	30	-2.50	- 0.003053	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	40	-2.50	- 0.003053	±2.5	PASS
Band2 6	5MHz	QPSK	26740	6RB#0	NV	50	-4.90	- 0.005983	±2.5	PASS

---End of Attachment---



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