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Appendix B.9

LTE Band 26(814-824)



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Transmitter Conducted Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.49	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.22	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	22.95	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.27	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.09	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.11	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.09	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.27	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.35	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.11	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	22.94	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.24	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.73	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.09	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.09	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.25	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	21.96	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	21.94	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	21.99	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.39	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.66	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	21.95	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	21.88	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.35	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.51	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.1	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.15	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.24	50	PASS



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Band26	3MHz	QPSK	26740	1RB#0	23.33	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.15	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.13	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.28	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.26	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.19	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.09	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.26	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.77	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	21.95	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.15	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.45	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.21	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	21.96	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.16	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.28	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.24	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	21.87	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	21.93	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.1	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.12	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.26	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.95	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.25	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.02	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.31	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.03	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.25	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.07	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.35	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.95	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.22	50	PASS



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Band26	5MHz	16QAM	26715	1RB#0	22.09	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.81	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.04	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.33	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.18	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.48	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	22	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.52	50	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.08	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.06	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	21.98	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.41	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.14	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.3	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.13	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.28	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.1	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.18	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.12	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.36	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	10MHz	QPSK	26740	50RB#0	5.30	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.02	13	PASS



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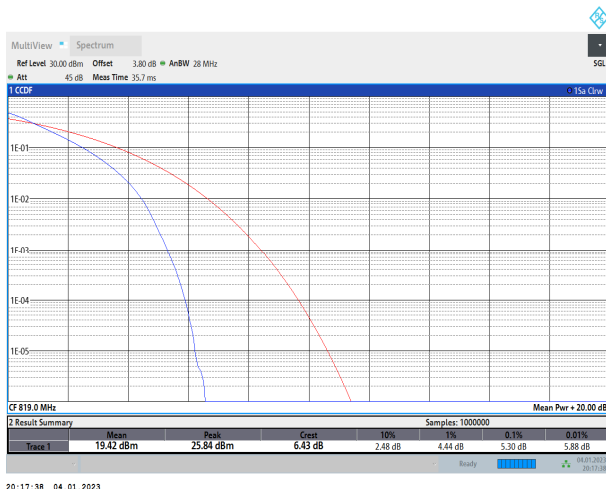
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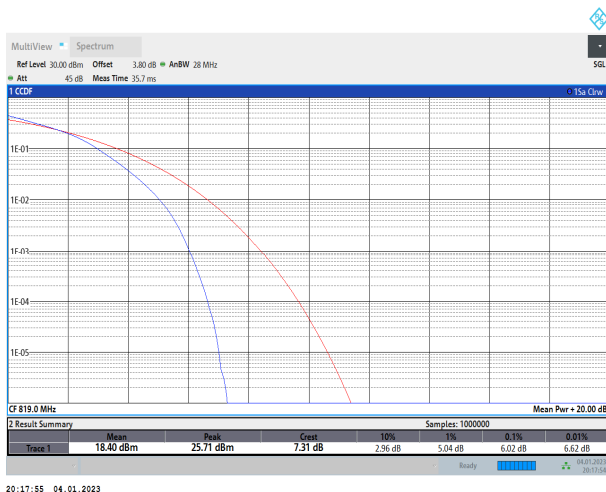
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Test Graphs

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



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS



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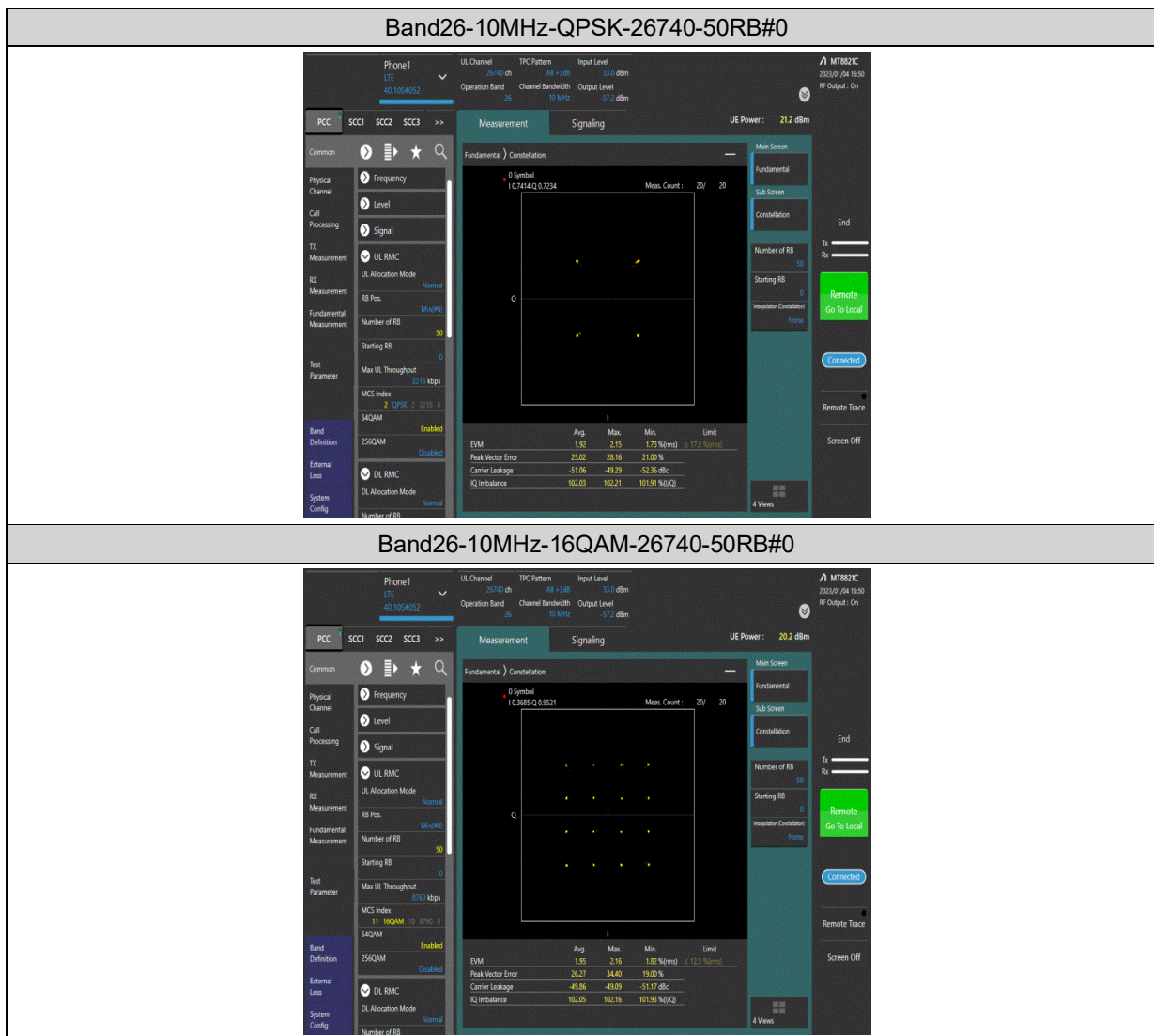
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.086	1.27	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.086	1.28	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.087	1.27	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.096	1.30	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.096	1.29	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.096	1.30	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.689	2.96	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.692	2.95	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.692	2.96	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.686	2.98	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.688	2.97	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.688	2.98	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.461	4.87	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.465	4.86	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.468	4.89	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.459	4.89	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.46	4.92	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.462	4.91	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.899	9.62	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.89	9.64	PASS



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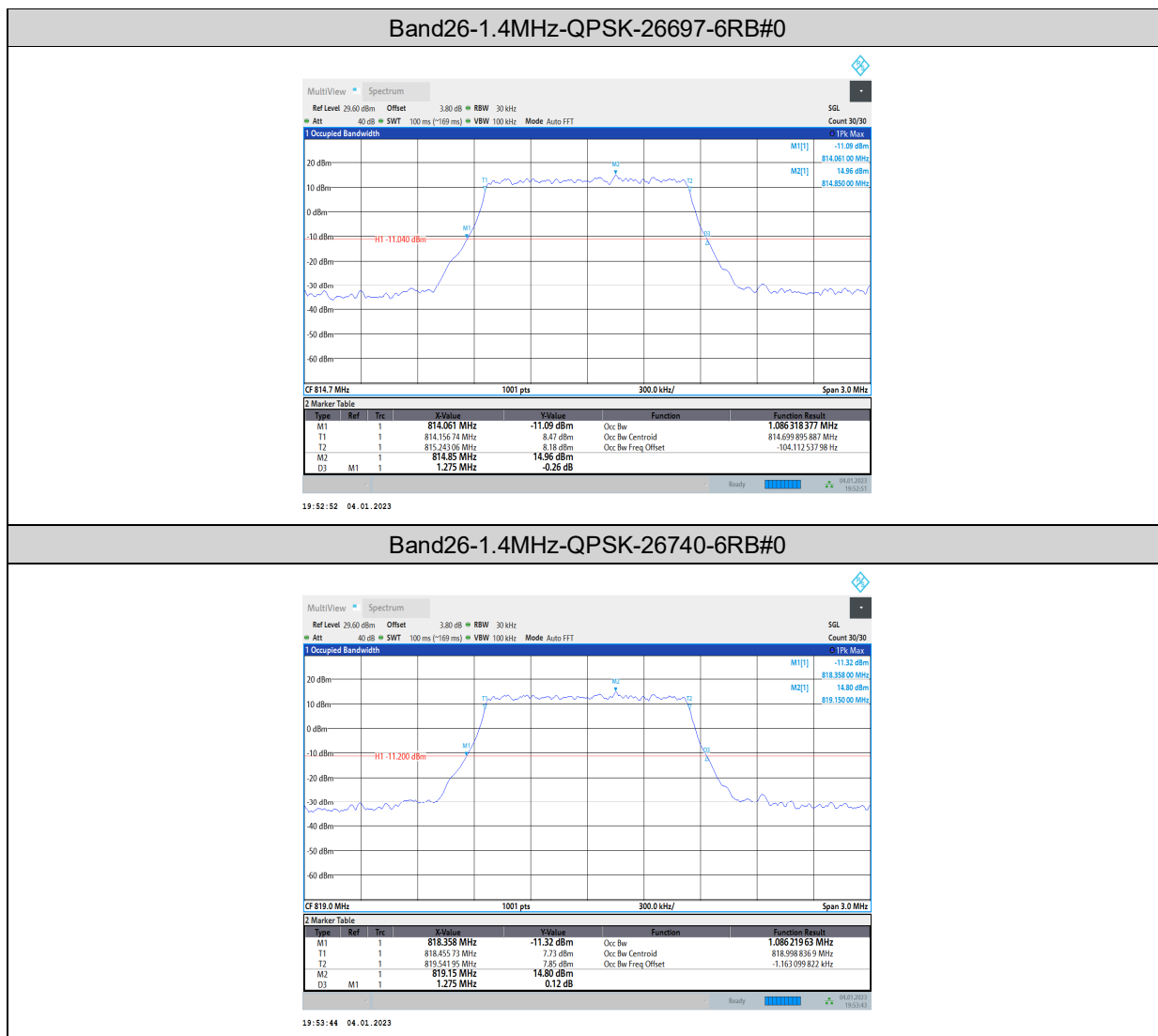
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Test Graphs



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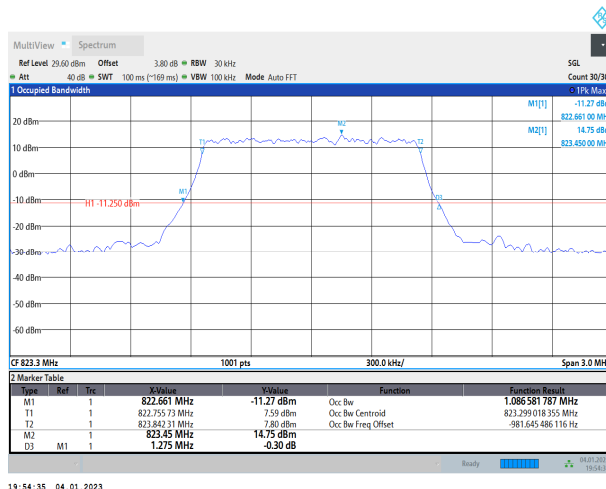
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Band26-1.4MHz-QPSK-26783-6RB#0



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

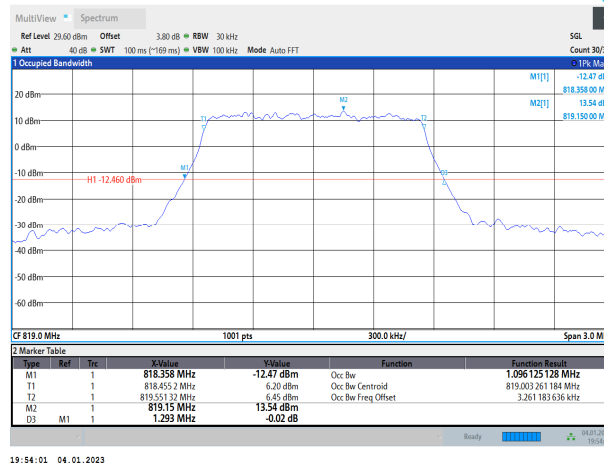


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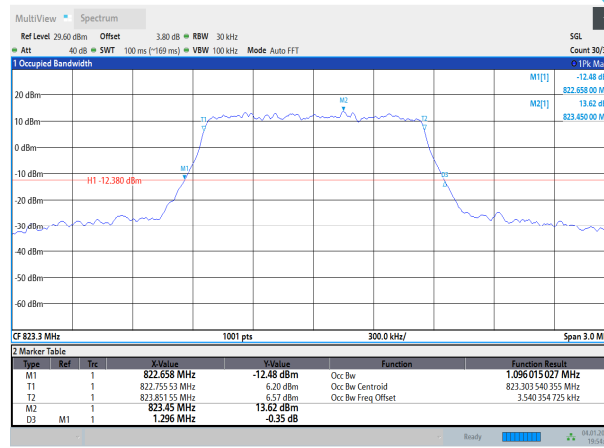
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Band26-1.4MHz-16QAM-26740-6RB#0



19:54:01 04.01.2023

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



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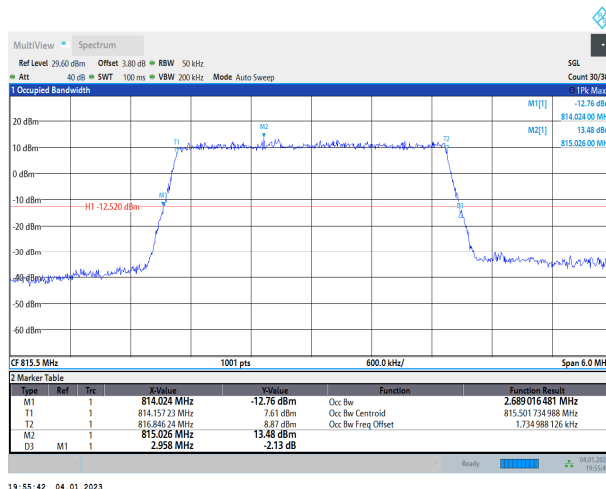
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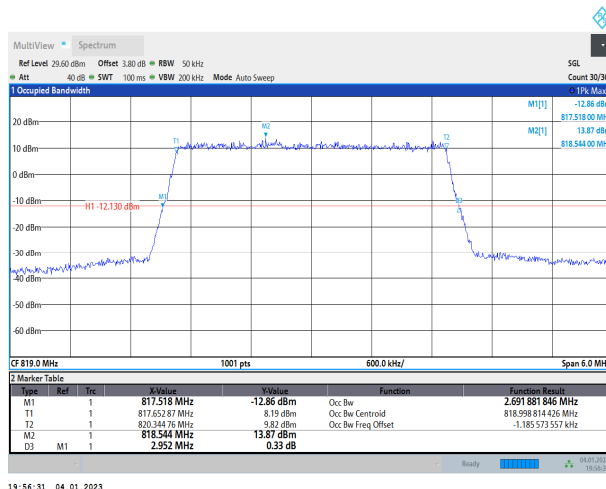
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Band26-3MHz-QPSK-26705-15RB#0



19:55:42 04.01.2023

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



19:56:31 04.01.2023



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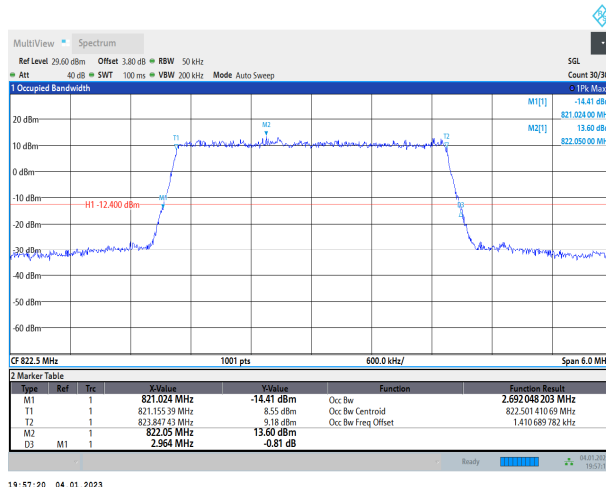
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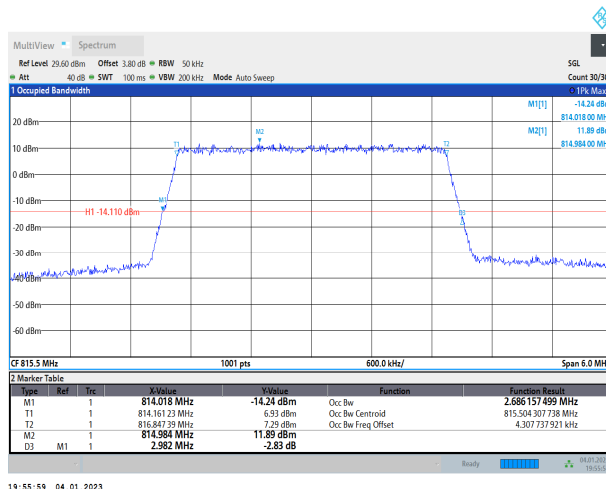
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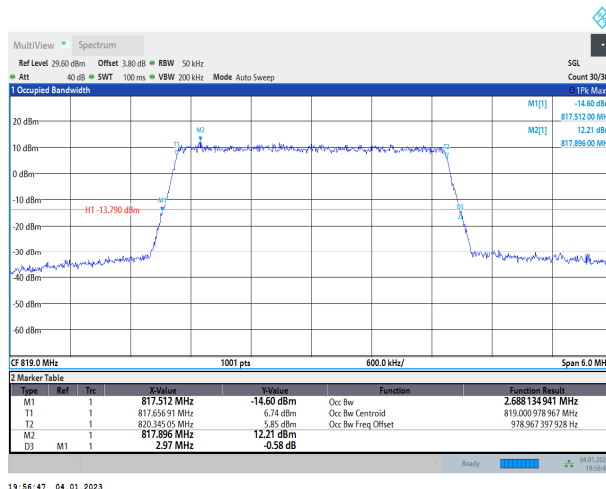
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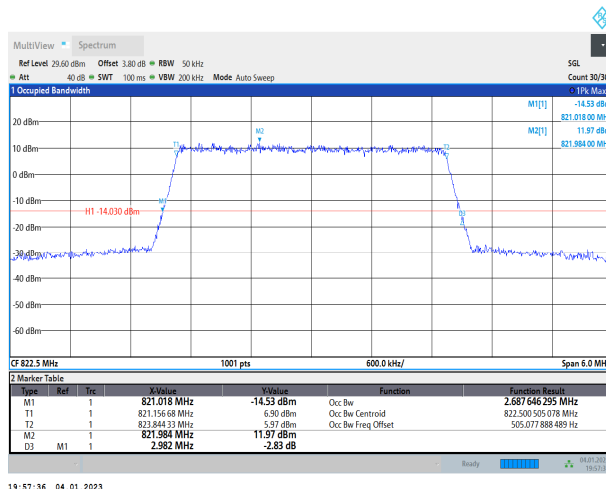
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19:56:47 04.01.2023

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



19:57:36 04.01.2023



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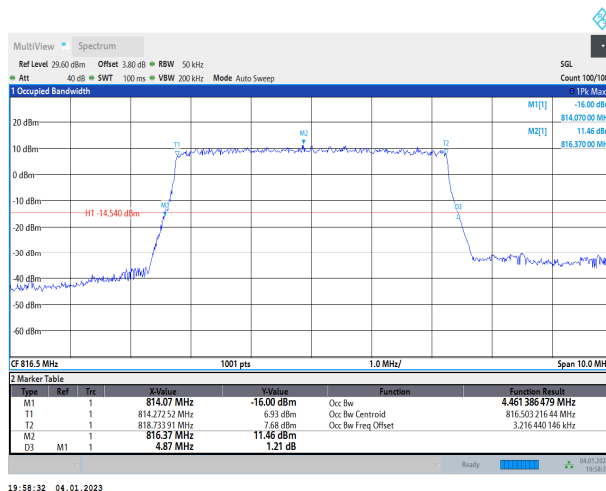
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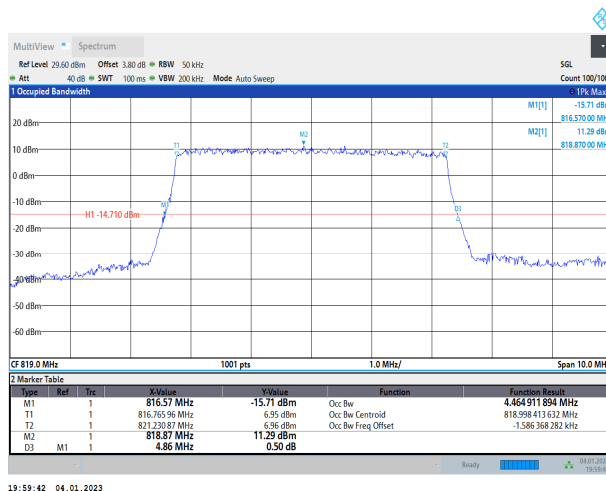
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Band26-5MHz-QPSK-26715-25RB#0



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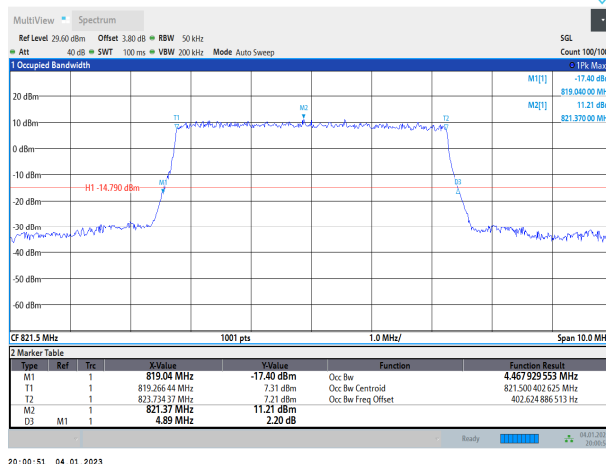
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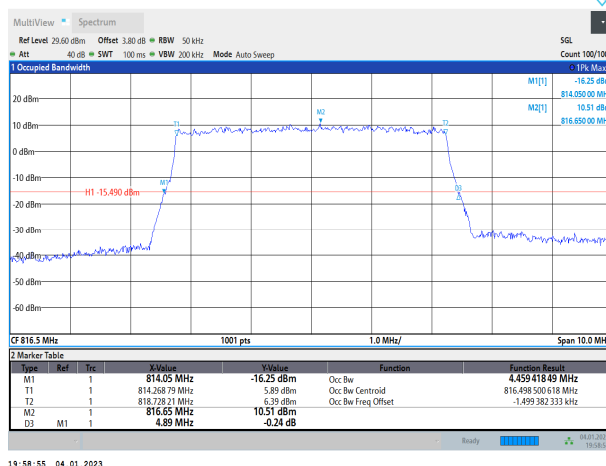
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Band26-5MHz-QPSK-26765-25RB#0



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

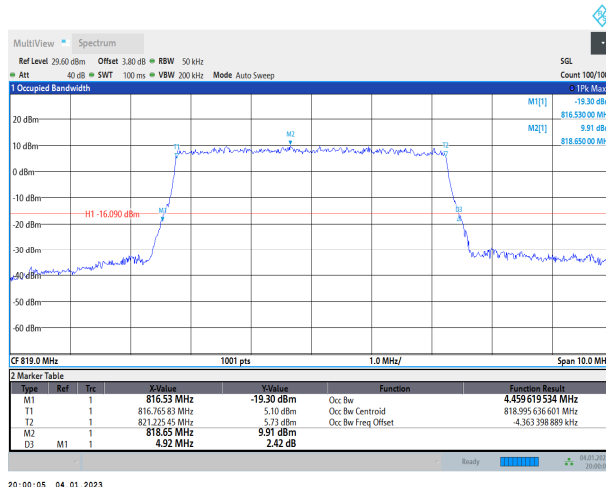


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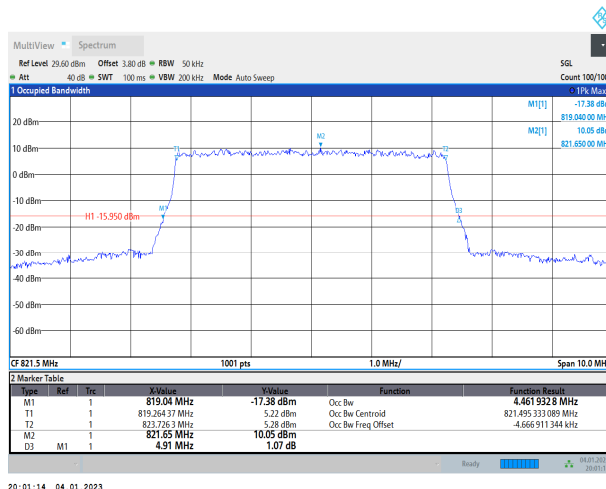
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Band26-5MHz-16QAM-26765-25RB#0



20:01:14 04.01.2023



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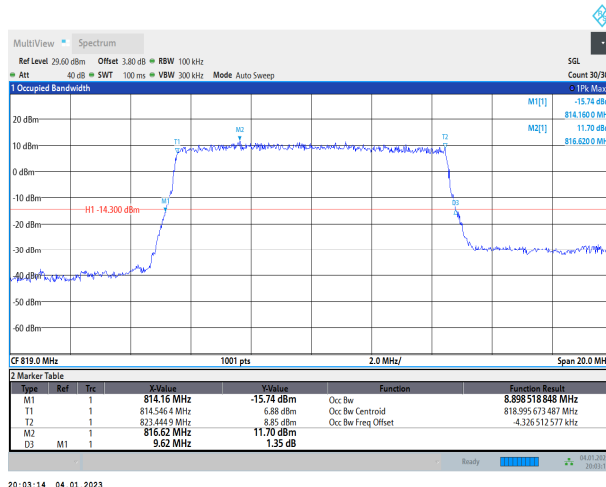
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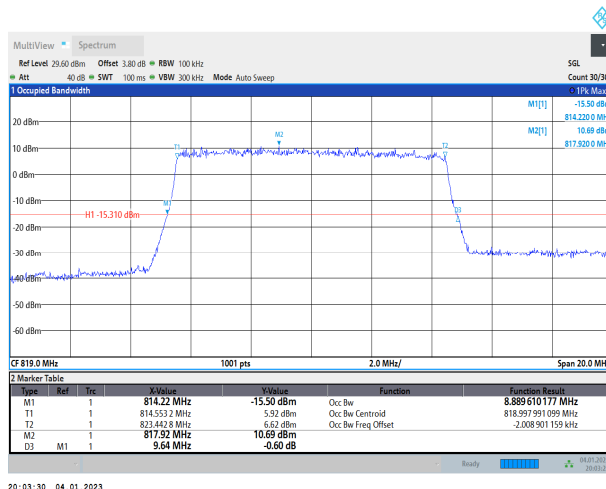
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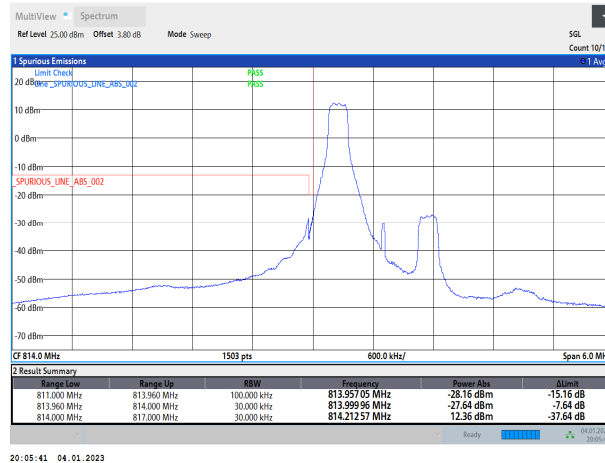
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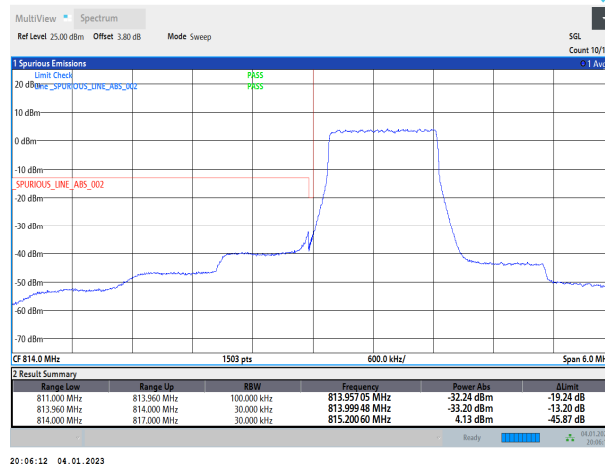
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Test Graphs

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



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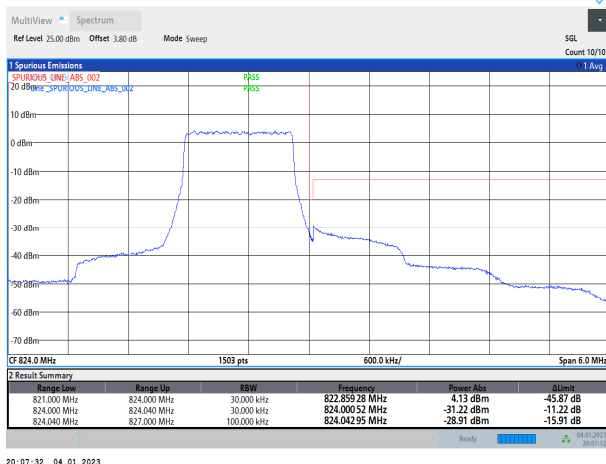
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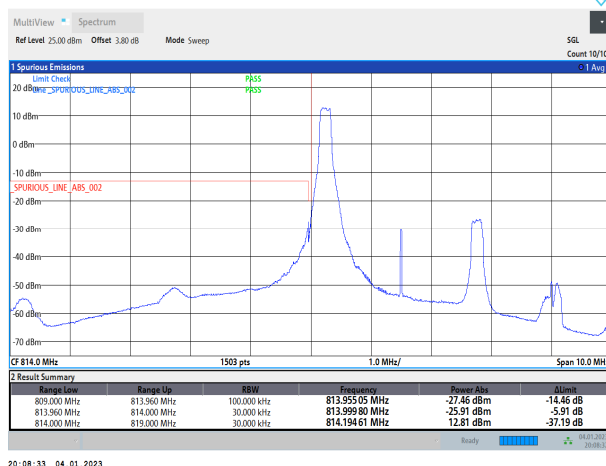
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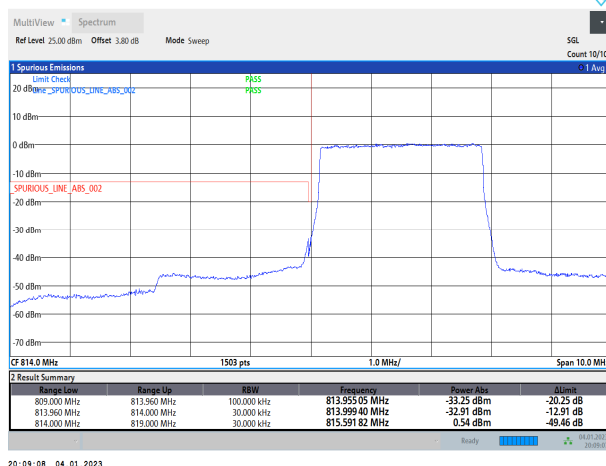
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Band26-3MHz-QPSK-26705-15RB#0



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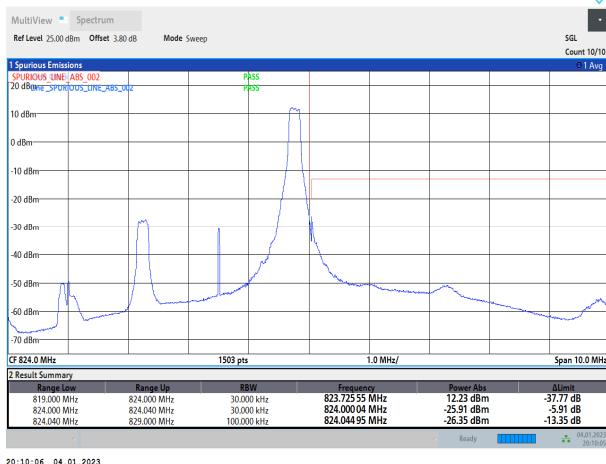
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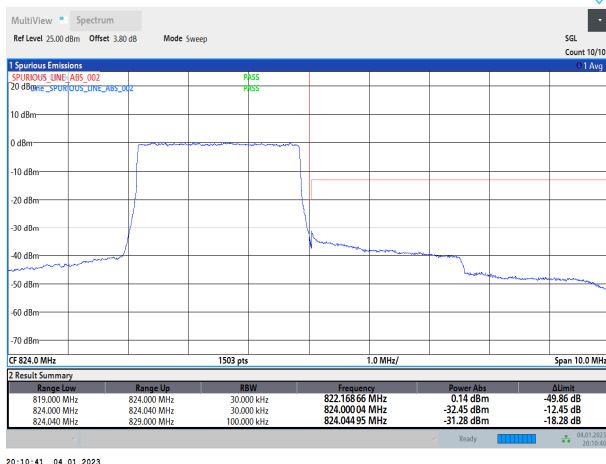
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Band26-3MHz-QPSK-26775-1RB#14



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



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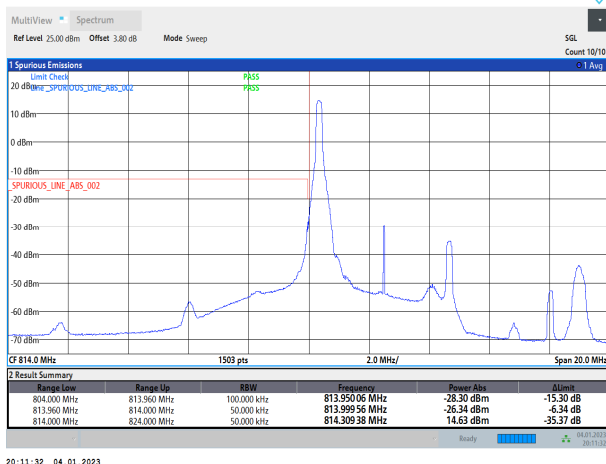
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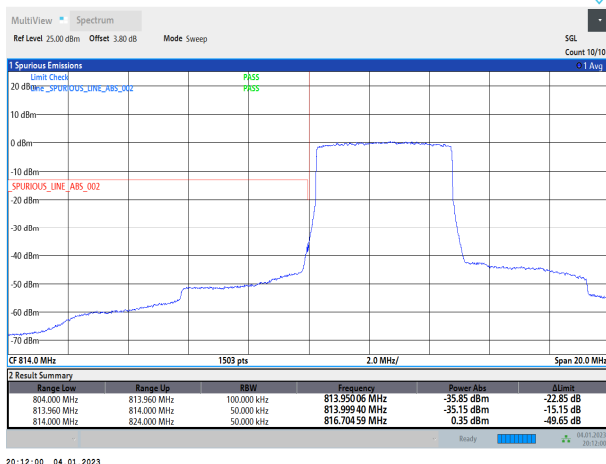
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Band26-5MHz-QPSK-26715-1RB#0



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



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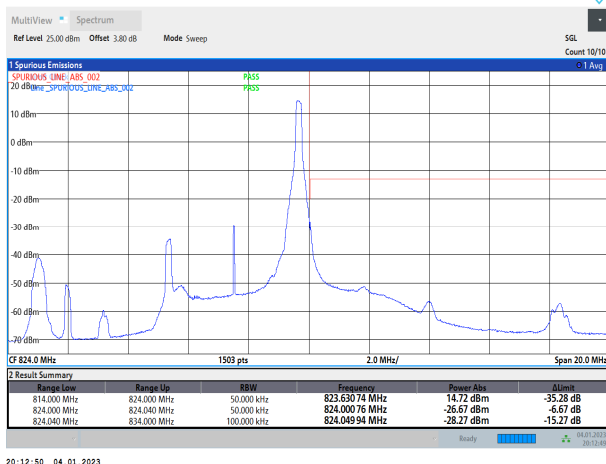
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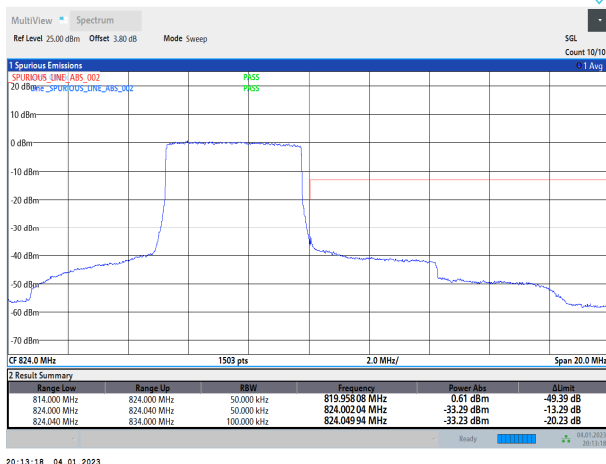
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Band26-5MHz-QPSK-26765-1RB#24



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



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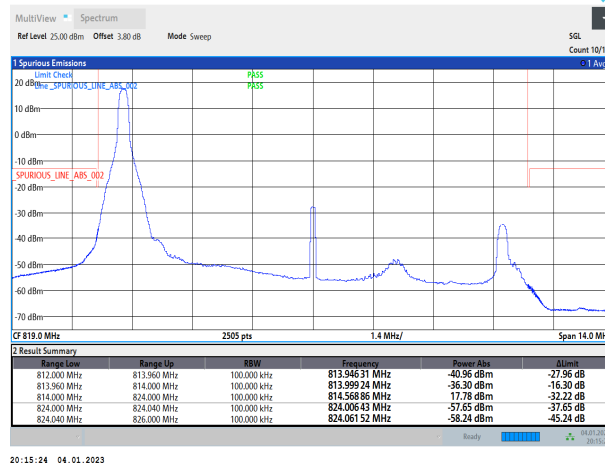
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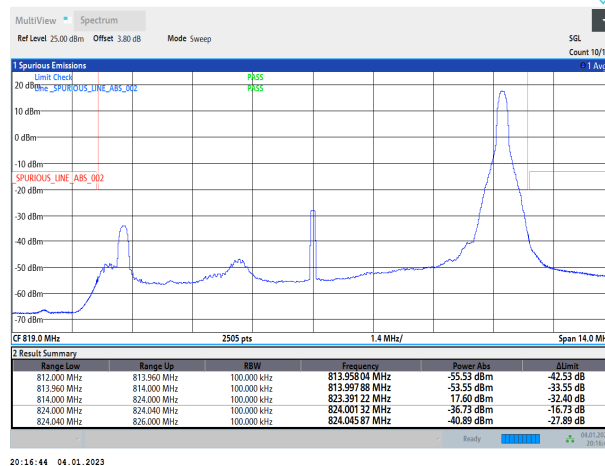
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Band26-10MHz-QPSK-26740-1RB#0



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



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



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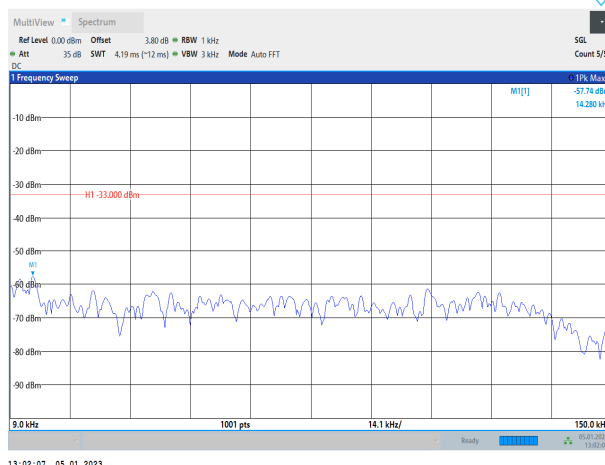
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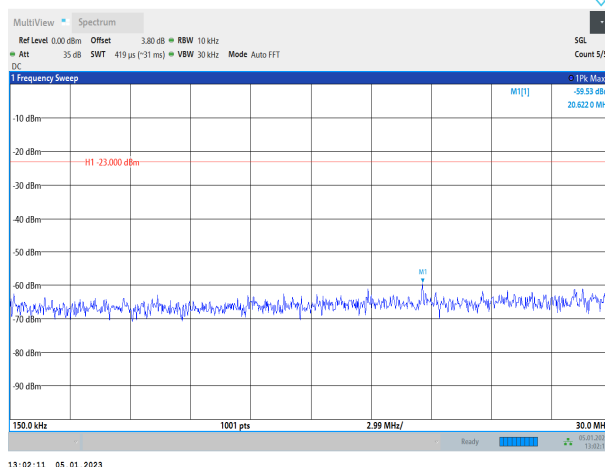
Conducted Spurious Emission

Test Graphs

Band26-10MHz-QPSK-26740-1RB#0-Range1:0.009~0.15MHz



Band26-10MHz-QPSK-26740-1RB#0-Range2:0.15~30MHz



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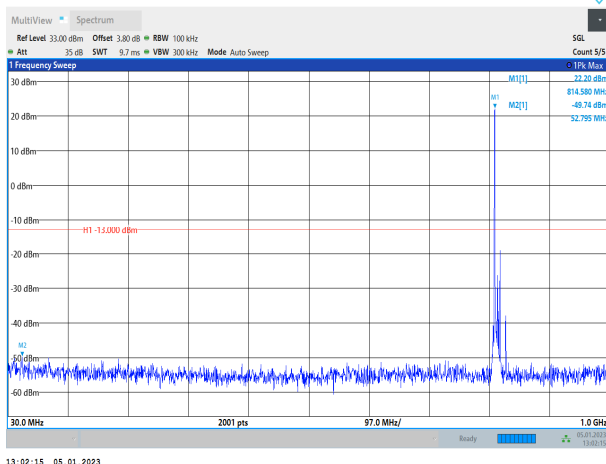
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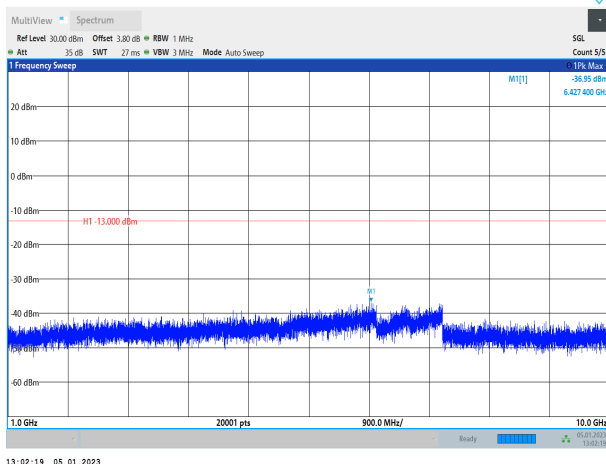
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Band26-10MHz-QPSK-26740-1RB#0-Range3:30~1000MHz



Band26-10MHz-QPSK-26740-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band26_10M_ 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	54.80	-48.24	25.36	-63.34	-13.00	50.34	254	266	Horizontal
2	2443.7700	63.65	-47.37	27.59	-51.40	-13.00	38.40	145	356	Horizontal
3	3258.3600	50.30	-46.52	29.61	-61.87	-13.00	48.87	174	356	Horizontal
4	4072.9500	49.25	-45.98	30.91	-61.08	-13.00	48.08	158	80	Horizontal
5	4887.5400	48.23	-45.59	32.57	-60.05	-13.00	47.05	199	28	Horizontal
6	5702.1300	48.38	-44.57	33.39	-58.06	-13.00	45.06	174	80	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	53.06	-48.24	25.36	-65.08	-13.00	52.08	285	159	Vertical
2	2443.7700	53.83	-47.37	27.59	-61.22	-13.00	48.22	169	53	Vertical
3	3258.3600	50.41	-46.52	29.61	-61.76	-13.00	48.76	191	146	Vertical
4	4072.9500	48.75	-45.98	30.91	-61.58	-13.00	48.58	142	133	Vertical
5	4887.5400	49.79	-45.59	32.57	-58.49	-13.00	45.49	203	92	Vertical
6	5702.1300	48.51	-44.57	33.39	-57.93	-13.00	44.93	237	53	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-1.80	-0.002198	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.30	-0.001587	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-1.60	-0.001954	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-0.60	-0.000733	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.80	-0.002198	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-2.40	-0.002930	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-1.10	-0.001343	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.60	-0.000733	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.60	-0.001954	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-0.50	-0.000611	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-1.00	-0.001221	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-0.60	-0.000733	PASS

---End of Attachment---



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