



Report No.: SEWM2306000194RG01

Rev.: 01 Page: 1 of 40

Appendix B.13

LTE Band 26(814-824)



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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 2 of 40

Transmitter Conducted Power Output

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.88	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	24.00	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.98	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.91	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.90	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.91	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.84	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.79	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.64	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.65	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.58	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.57	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.15	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.09	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	22.17	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.94	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.08	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.90	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.02	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.86	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.85	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.78	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.82	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	22.21	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	22.17	50.00	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	22.18	50.00	PASS



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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 3 of 40

				P	rage: 3 (or 40	
Band26	1.4MHz	64QAM	26697	6RB#0	21.05	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#0	22.12	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	22.14	50.00	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	22.09	50.00	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.91	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	21.87	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	21.91	50.00	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	21.79	50.00	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.72	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.95	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.97	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.88	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.87	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.90	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.84	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.77	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.75	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.76	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.66	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.57	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.61	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.06	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.12	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.98	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	22.06	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.01	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.01	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.81	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.98	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.91	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.78	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.70	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.82	50.00	PASS



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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 4 of 40

				P	age: 4 (or 40	
Band26	3MHz	64QAM	26705	1RB#0	22.22	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#8	22.27	50.00	PASS
Band26	3MHz	64QAM	26705	1RB#14	22.19	50.00	PASS
Band26	3MHz	64QAM	26705	15RB#0	21.01	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#0	22.16	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#8	22.06	50.00	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.95	50.00	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.90	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#0	21.98	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#8	21.89	50.00	PASS
Band26	3MHz	64QAM	26775	1RB#14	21.84	50.00	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.79	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	24.05	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	24.01	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.94	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.84	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.97	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.96	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.81	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.79	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.92	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.85	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.66	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.72	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.10	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.01	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.08	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	22.07	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.17	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.06	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.96	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	22.00	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.98	50.00	PASS
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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 5 of 40

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Band26	5MHz	16QAM	26765	1RB#12	22.90	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.68	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.88	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#0	22.28	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#12	22.13	50.00	PASS
Band26	5MHz	64QAM	26715	1RB#24	22.14	50.00	PASS
Band26	5MHz	64QAM	26715	25RB#0	21.02	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#0	22.13	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#12	22.14	50.00	PASS
Band26	5MHz	64QAM	26740	1RB#24	21.95	50.00	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.98	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#0	22.11	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.04	50.00	PASS
Band26	5MHz	64QAM	26765	1RB#24	21.86	50.00	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.87	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.02	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.95	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.67	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.81	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.23	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.99	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.75	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.97	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#0	22.17	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#24	22.09	50.00	PASS
Band26	10MHz	64QAM	26740	1RB#49	21.80	50.00	PASS
Band26	10MHz	64QAM	26740	50RB#0	20.99	50.00	PASS



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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 6 of 40

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.68	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.36	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	5.82	13	PASS



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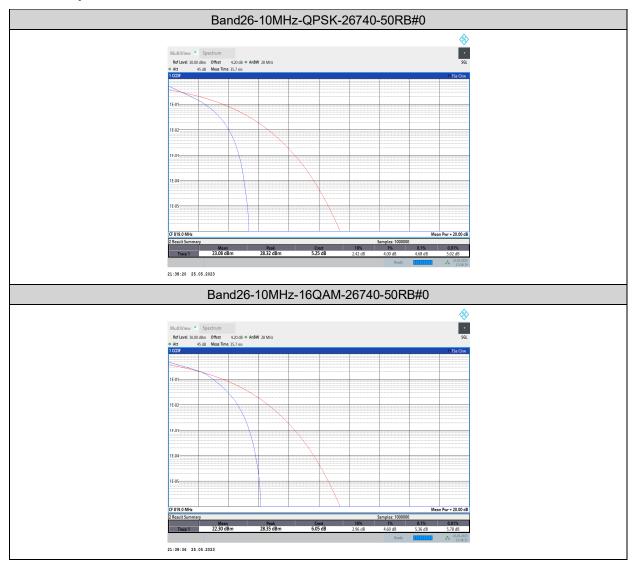
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Rev.: 01 Page: 7 of 40

Test Graphs





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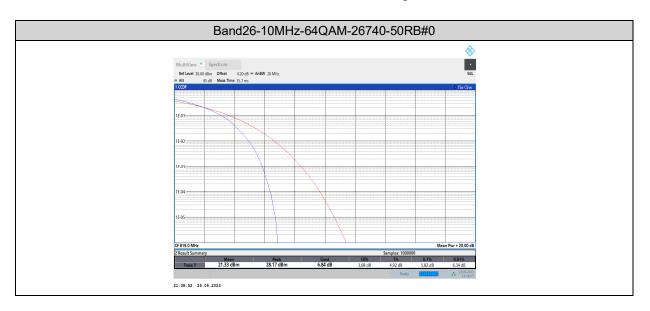
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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 9 of 40

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
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS



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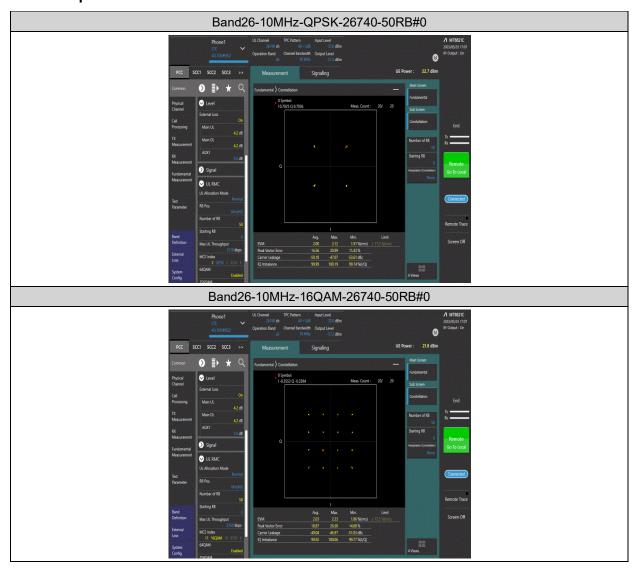


Report No.: SEWM2306000194RG01

Rev.: 01

Page: 10 of 40

Test Graphs





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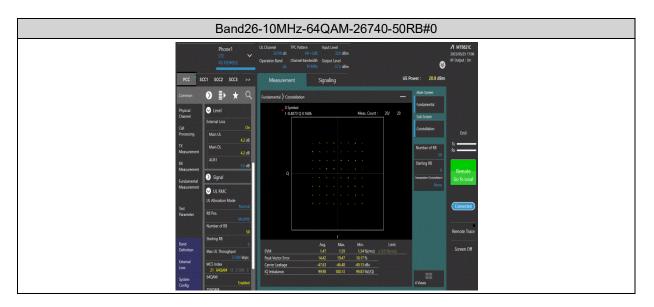
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 11 of 40





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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 12 of 40

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	1.088	1.27	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.075	1.26	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.078	1.24	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.091	1.28	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.28	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.102	1.32	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.096	1.30	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.088	1.27	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.099	1.30	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.687	2.91	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.697	2.91	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.92	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.688	2.92	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.677	2.91	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.91	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.695	2.90	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.687	2.90	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.680	2.92	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.469	4.80	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.465	4.74	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.462	4.83	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.462	4.95	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.463	4.92	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.468	4.84	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.452	4.79	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.466	4.77	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.465	4.75	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.904	9.54	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.958	9.54	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.928	9.58	PASS



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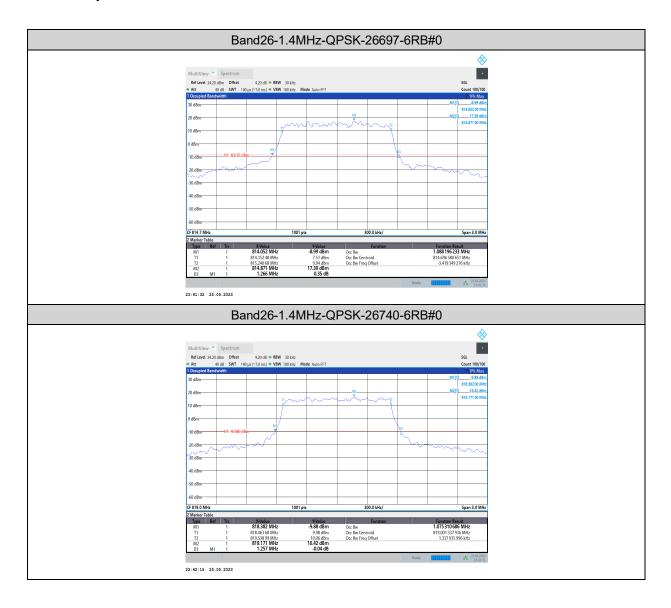


Report No.: SEWM2306000194RG01

Rev.: 01

Page: 13 of 40

Test Graphs





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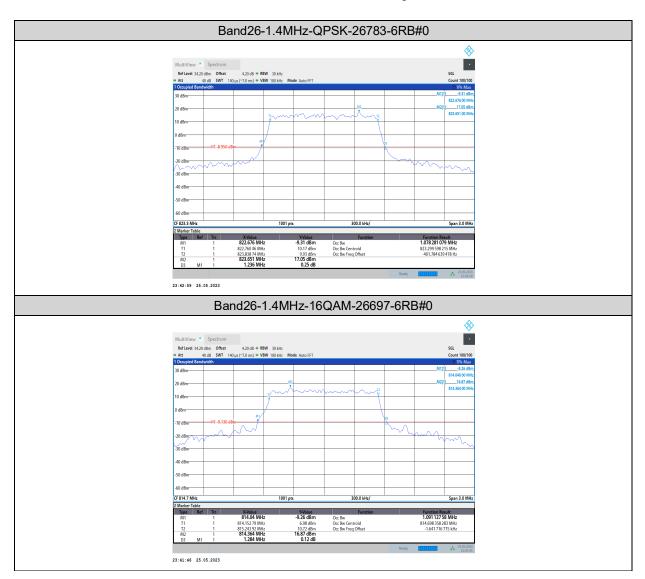
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Report No.: SEWM2306000194RG01

Rev.: 01

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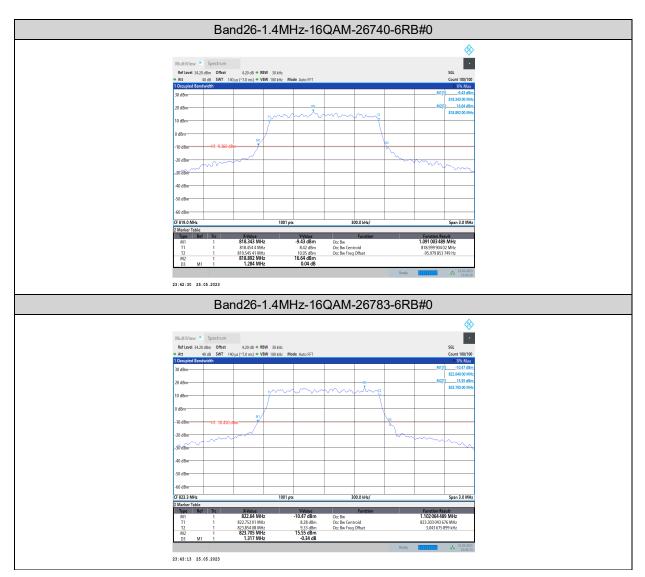
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Rev.: 01

Page: 15 of 40





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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 16 of 40





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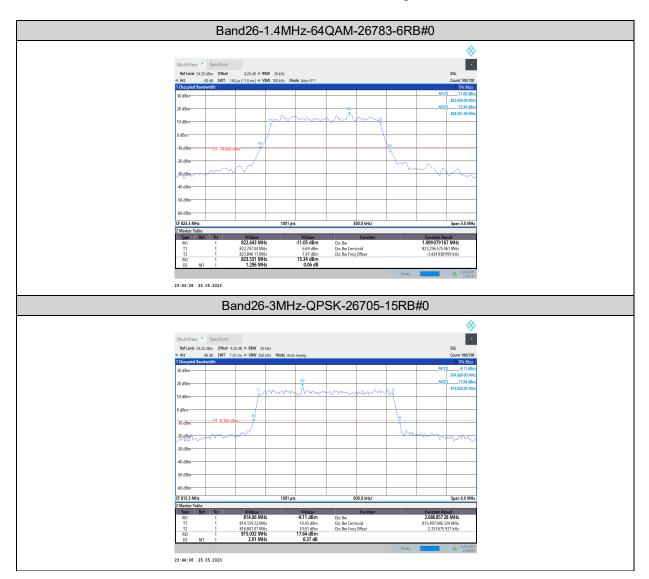
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 17 of 40





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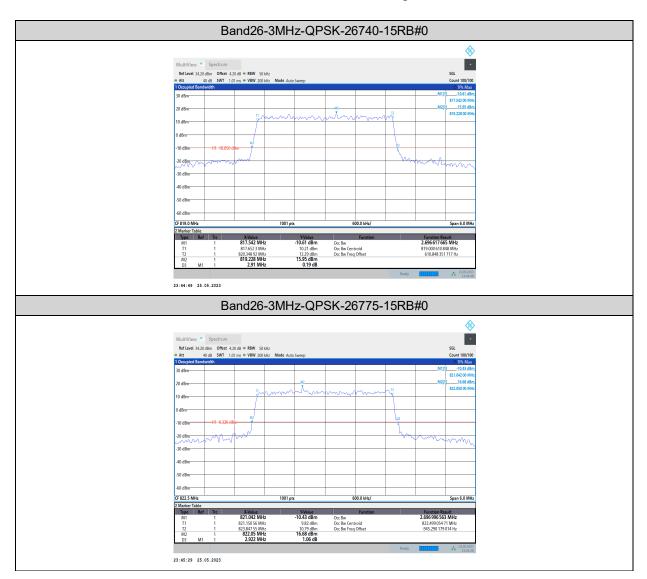
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Rev.: 01

Page: 18 of 40





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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 19 of 40





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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 20 of 40





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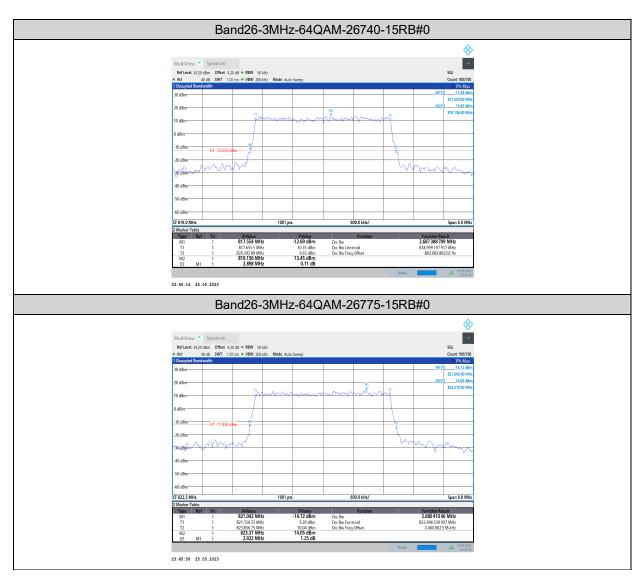
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 21 of 40





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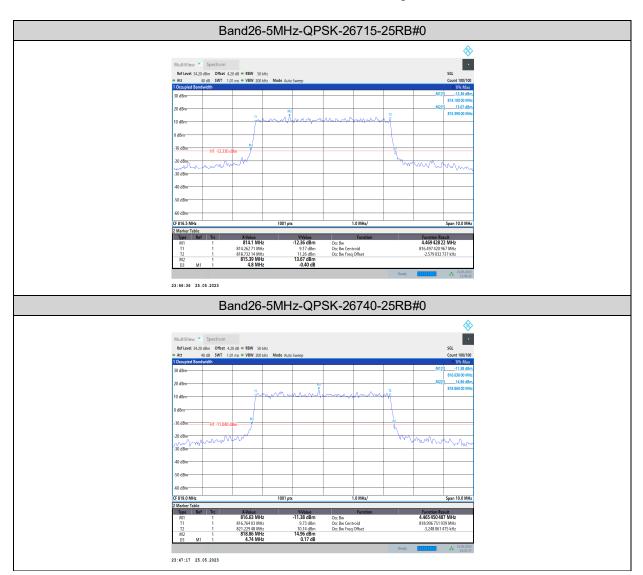
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 22 of 40





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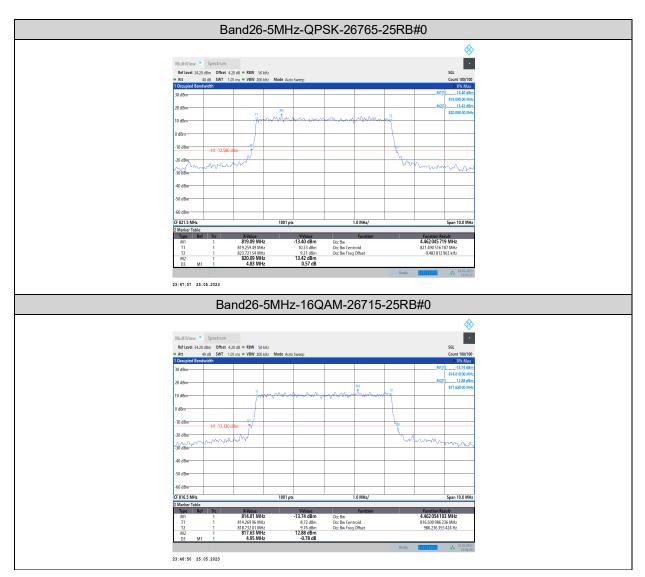
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Rev.: 01

Page: 23 of 40





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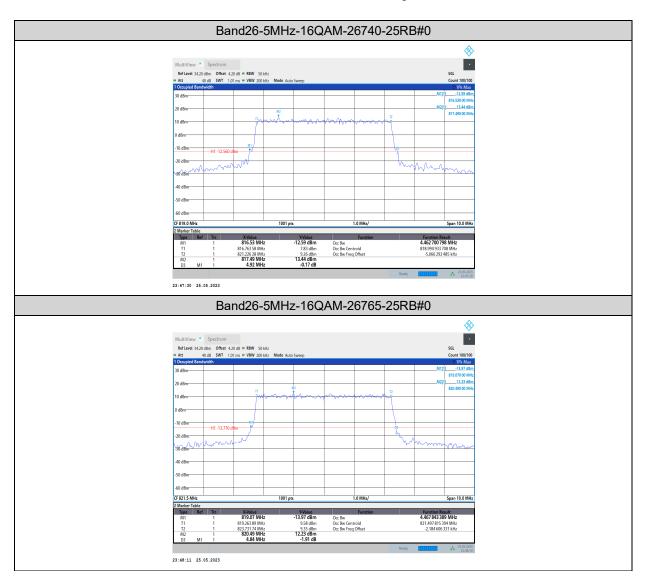
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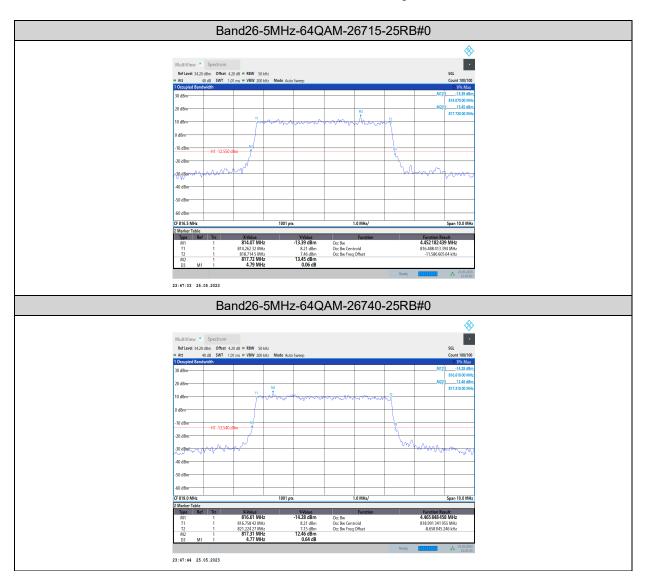
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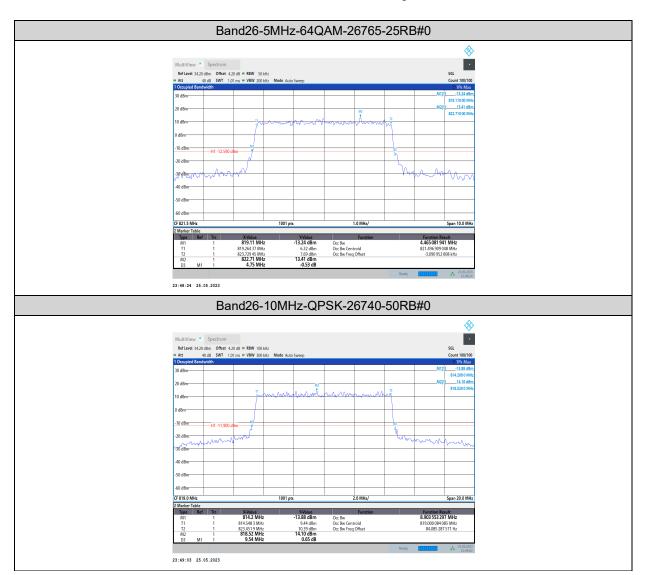
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Rev.: 01

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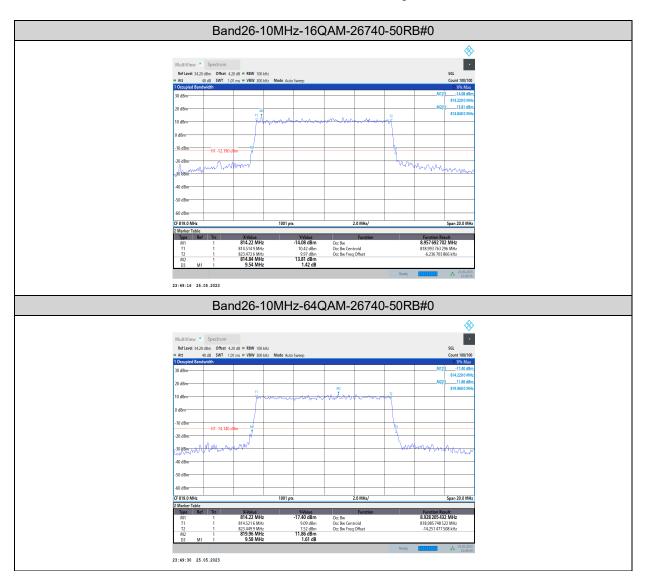
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 28 of 40

Band Edge

Test Graphs





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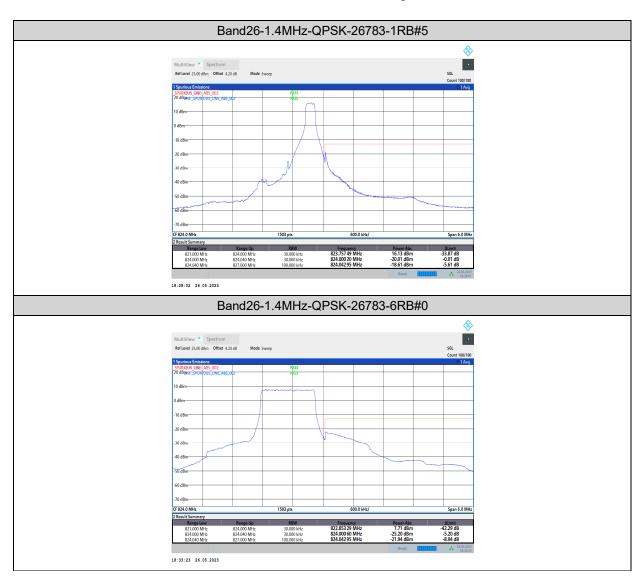
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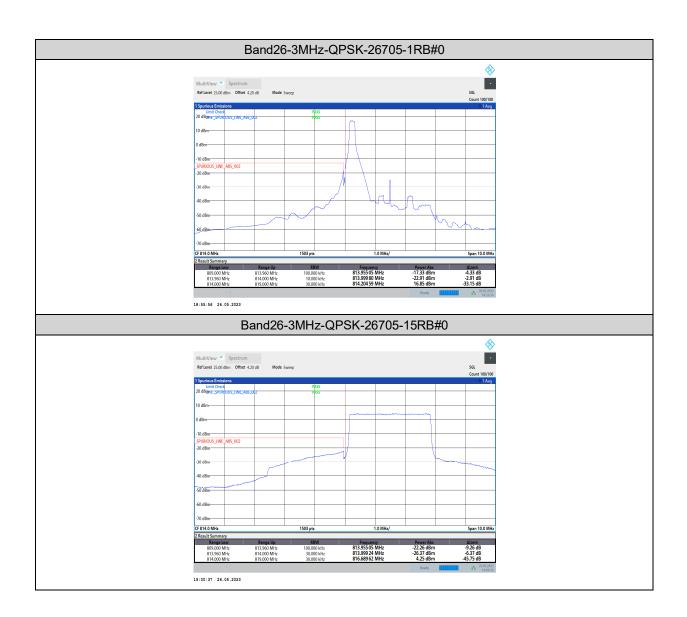
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 30 of 40





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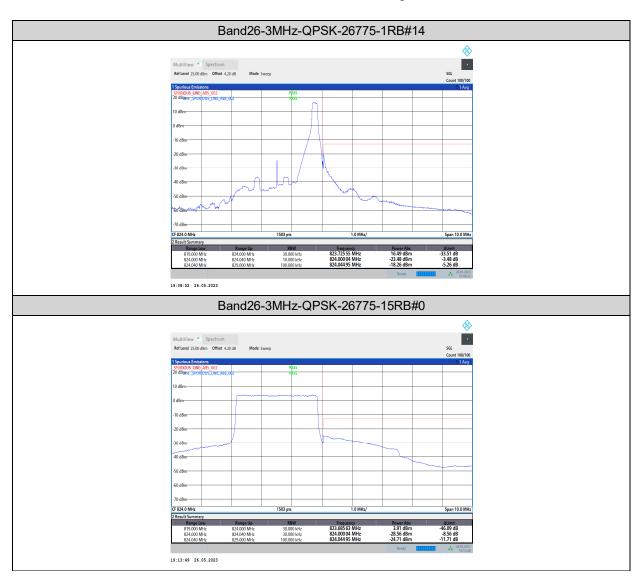
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Report No.: SEWM2306000194RG01

Rev.: 01

31 of 40 Page:





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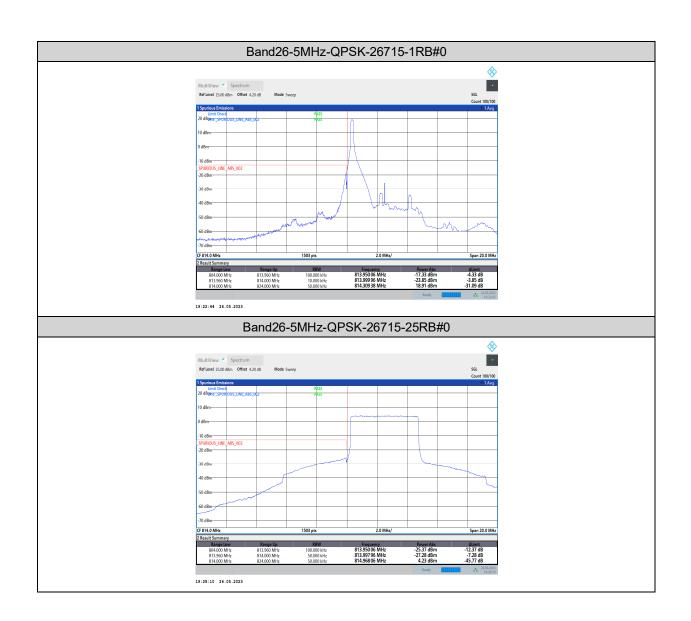
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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 32 of 40





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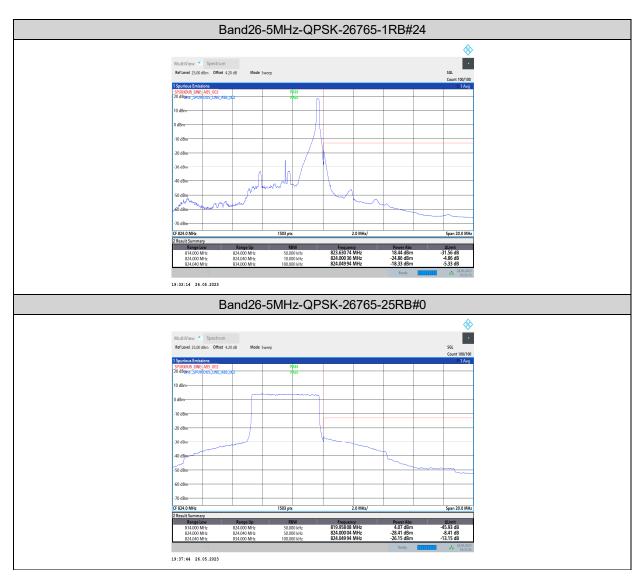
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Rev.: 01

33 of 40 Page:





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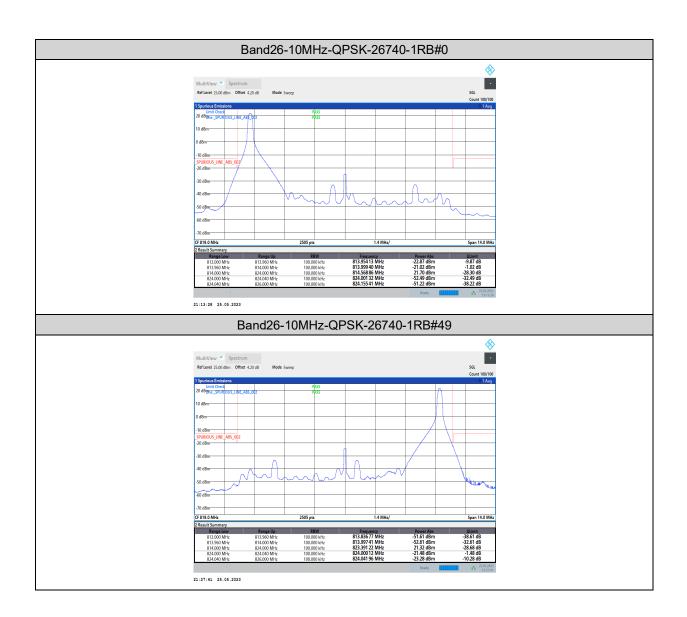
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Rev.: 01

Page: 34 of 40





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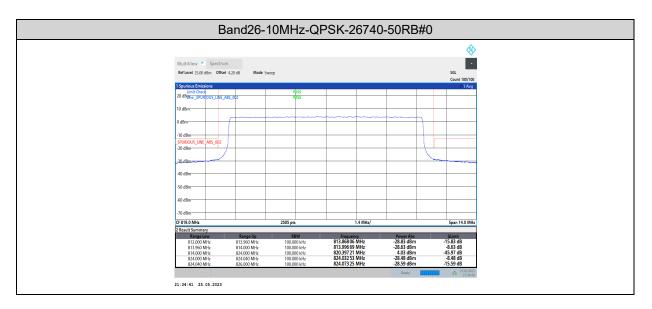
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Rev.: 01

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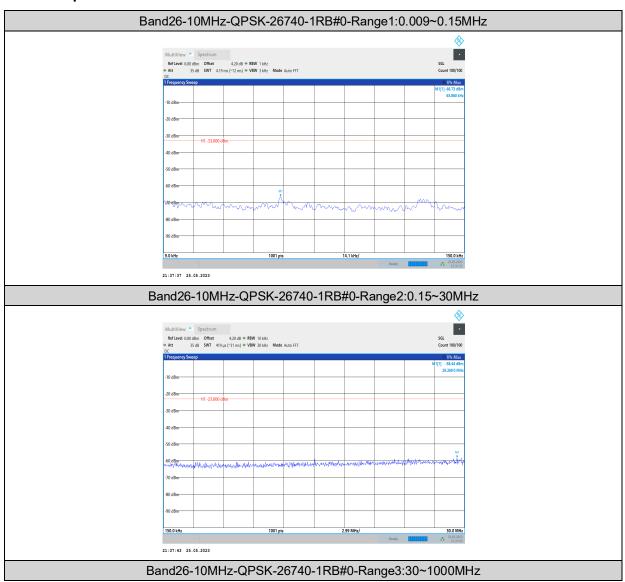
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Rev.: 01

Page: 36 of 40

Conducted Spurious Emission

Test Graphs





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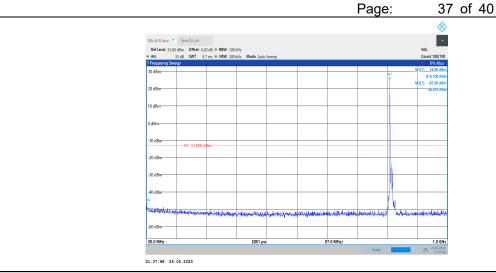
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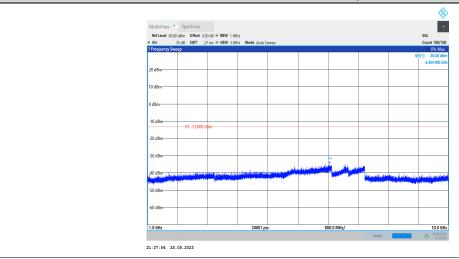


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Band26-10MHz-QPSK-26740-1RB#0-Range4:1000~10000MHz





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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 38 of 40

Field Strength of Spurious Radiation

Test Band = LTE Band 26 _ TM1 -10M_ Ant13
Test Channel = Mid Channel

Data	Data List											
NO	Frequency	Reading	Factor	AFFID/1	Level	Limit	Margin	Height	Angle	Dalasita		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1629.18	53.08	-48.44	25.59	-65.03	-13.00	52.03	247	3	Horizontal		
2	2443.77	42.43	-47.22	27.79	-72.26	-13.00	59.26	189	76	Horizontal		
3	3258.36	42.65	-46.18	29.50	-69.29	-13.00	56.29	255	313	Horizontal		
4	4072.95	42.17	-45.43	30.72	-67.81	-13.00	54.81	165	360	Horizontal		
5	4887.54	39.42	-45.08	32.33	-68.59	-13.00	55.59	280	92	Horizontal		
6	5702.13	39.57	-43.56	33.25	-66.00	-13.00	53.00	132	360	Horizontal		

Data	Data List											
NO	Frequency	Reading	Factor	Λ Γ[-ID/]	Level	Limit	Margin	Height	Angle	Dalavitu		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1629.18	47.56	-48.44	25.59	-70.55	-13.00	57.55	298	81	Vertical		
2	2443.77	42.55	-47.22	27.79	-72.14	-13.00	59.14	277	18	Vertical		
3	3258.36	42.90	-46.18	29.50	-69.04	-13.00	56.04	143	312	Vertical		
4	4072.95	41.60	-45.43	30.72	-68.38	-13.00	55.38	203	357	Vertical		
5	4887.54	39.46	-45.08	32.33	-68.55	-13.00	55.55	180	202	Vertical		
6	5702.13	39.96	-43.56	33.25	-65.61	-13.00	52.61	164	357	Vertical		



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Report No.: SEWM2306000194RG01

Rev.: 01

Page: 39 of 40

Test Band = LTE Band 26 _ TM1 -10M_ Ant31 Test Channel = Mid Channel

Data	a List									
NO	Frequency	Reading	Factor	Λ Γ[d D/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1629.18	44.20	-48.44	25.59	-73.91	-13.00	60.91	277	343	Horizontal
2	2443.77	42.73	-47.22	27.79	-71.96	-13.00	58.96	189	280	Horizontal
3	3258.36	42.71	-46.18	29.50	-69.23	-13.00	56.23	293	155	Horizontal
4	4072.95	41.93	-45.43	30.72	-68.05	-13.00	55.05	245	94	Horizontal
5	4887.54	39.26	-45.08	32.33	-68.75	-13.00	55.75	164	62	Horizontal
6	5702.13	40.32	-43.56	33.25	-65.25	-13.00	52.25	123	170	Horizontal

Data	Data List											
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1629.18	44.41	-48.44	25.59	-73.70	-13.00	60.70	201	64	Vertical		
2	2443.77	42.96	-47.22	27.79	-71.73	-13.00	58.73	248	47	Vertical		
3	3258.36	42.93	-46.18	29.50	-69.01	-13.00	56.01	178	33	Vertical		
4	4072.95	41.69	-45.43	30.72	-68.29	-13.00	55.29	263	0	Vertical		
5	4887.54	39.21	-45.08	32.33	-68.80	-13.00	55.80	125	19	Vertical		
6	5702.13	40.62	-43.56	33.25	-64.95	-13.00	51.95	138	357	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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Report No.: SEWM2306000194RG01

Rev.: 01 Page: 40 of 40

Frequency Stability

Test Result

					Voltage					
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	0.90	0.001099	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	3.00	0.003663	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	3.90	0.004762	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°ℂ)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	0.60	0.000733	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-0.20	-0.000244	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-0.40	-0.000488	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-3.40	-0.004151	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-1.00	-0.001221	±2.5	PASS

---End of Attachment---



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