

Report No.: SEWA2204000009RG01
Rev.: 01
Page: 1 of 39

Appendix B.11

LTE Band 26(814-824)



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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 2 of 39

Transmitter Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.68	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.86	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.71	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.84	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.76	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.84	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.70	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.83	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.75	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	24.05	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.74	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.86	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	23.00	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	23.06	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.01	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.91	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.08	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.22	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.04	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.01	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	23.00	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.15	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.02	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.95	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.41	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	21.48	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	21.36	50	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.60	50	PASS

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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 3 of 39

Band26	1.4MHz	64QAM	26740	1RB#0	21.48	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	21.60	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	21.63	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	20.43	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	21.98	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	22.14	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	21.98	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.84	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.76	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.85	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.69	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.94	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.81	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.89	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.87	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.89	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.88	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.92	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.86	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.90	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	23.15	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	23.13	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.96	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.98	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	23.09	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	23.25	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.23	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	22.00	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	23.21	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	23.17	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	23.24	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	22.01	50	PASS

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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 4 of 39

Band26	3MHz	64QAM	26705	1RB#0	21.60	50	PASS
Band26	3MHz	64QAM	26705	1RB#8	21.58	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	21.25	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.45	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	21.50	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	21.70	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.90	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.50	50	PASS
Band26	3MHz	64QAM	26775	1RB#0	22.15	50	PASS
Band26	3MHz	64QAM	26775	1RB#8	22.24	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	22.05	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	21.00	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.81	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.94	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.75	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.92	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.85	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.88	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.85	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.96	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.86	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.91	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.87	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.90	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.19	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.06	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	23.15	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.94	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	23.09	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	23.12	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	23.09	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.99	50	PASS

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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 5 of 39

Band26	5MHz	16QAM	26765	1RB#0	23.23	50	PASS
Band26	5MHz	16QAM	26765	1RB#12	23.28	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	23.22	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.97	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	21.55	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	21.36	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	21.28	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	20.30	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	21.46	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	21.50	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	22.01	50	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.47	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	22.06	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	22.06	50	PASS
Band26	5MHz	64QAM	26765	1RB#24	22.26	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.92	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.88	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.78	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.92	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.99	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.28	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.18	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.14	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.97	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	21.81	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	21.63	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	22.07	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	20.63	50	PASS

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Report No.: SEWA2204000009RG01
Rev.: 01
Page: 6 of 39

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.14	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.12	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.66	13	PASS



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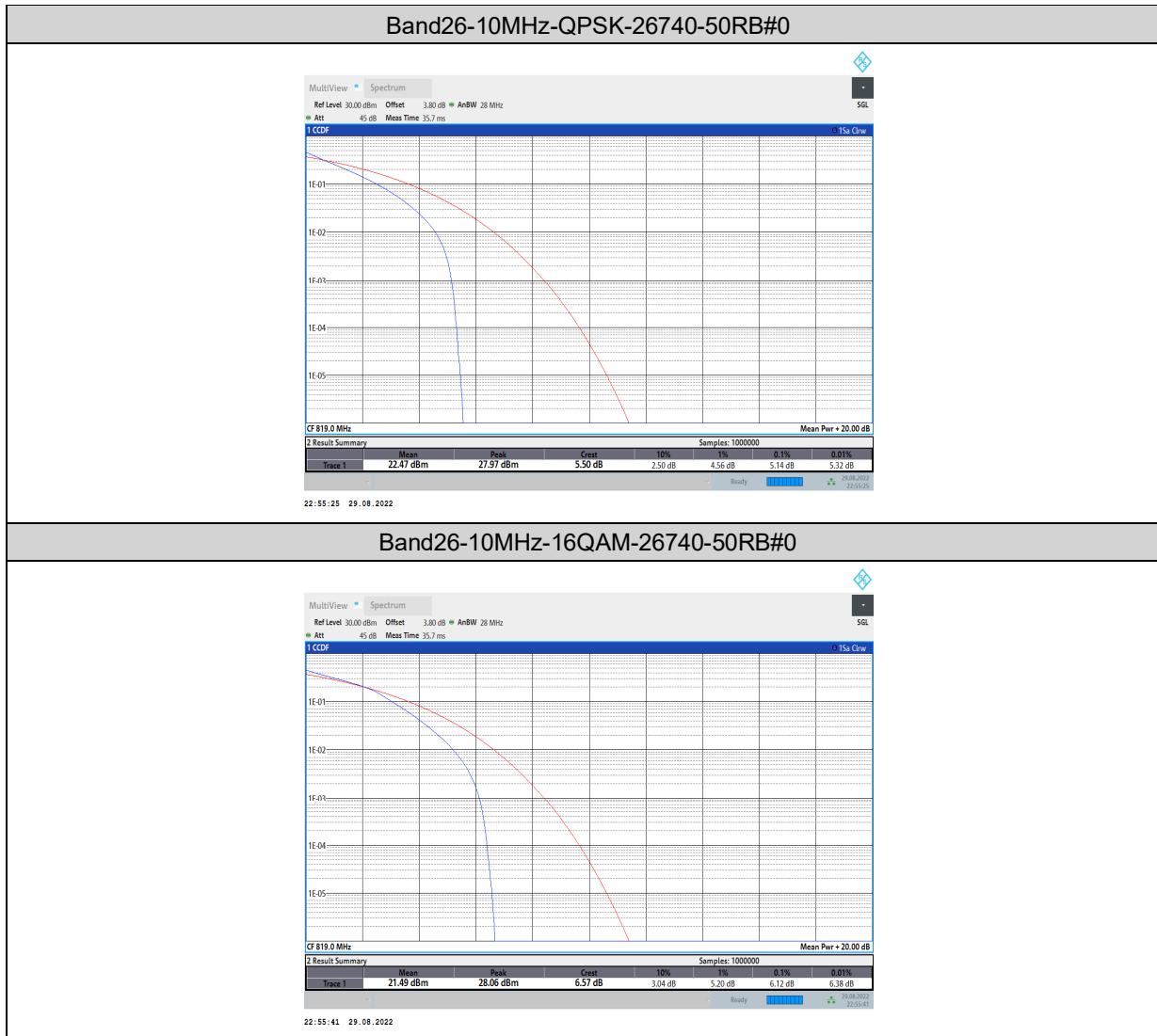
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 Rev.: 01
 Page: 7 of 39

Test Graphs



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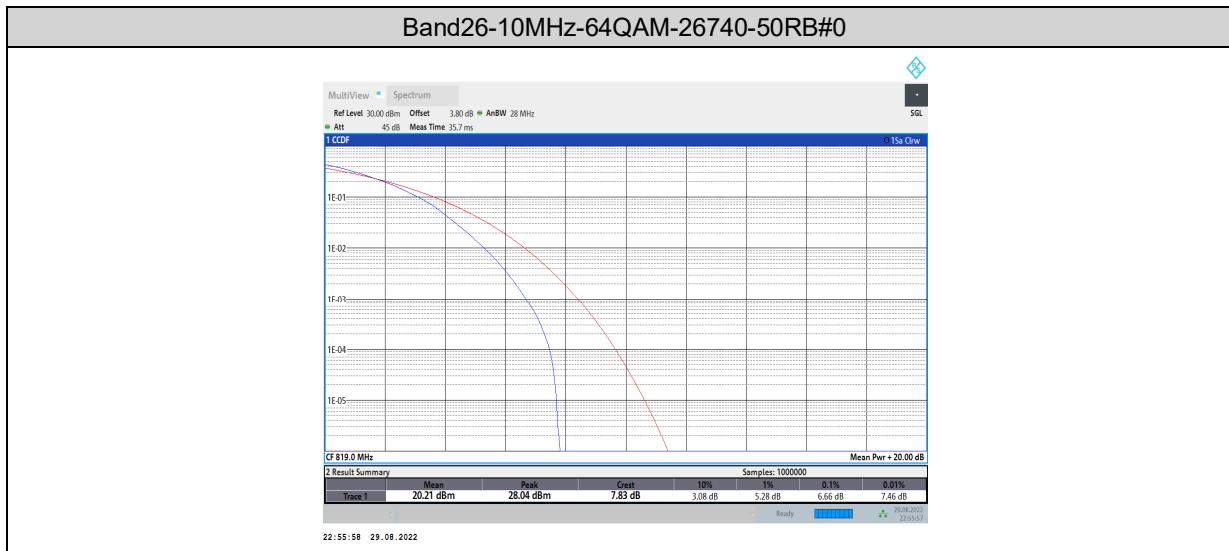


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 Rev.: 01
 Page: 8 of 39



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Report No.: SEWA2204000009RG01
Rev.: 01
Page: 9 of 39

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



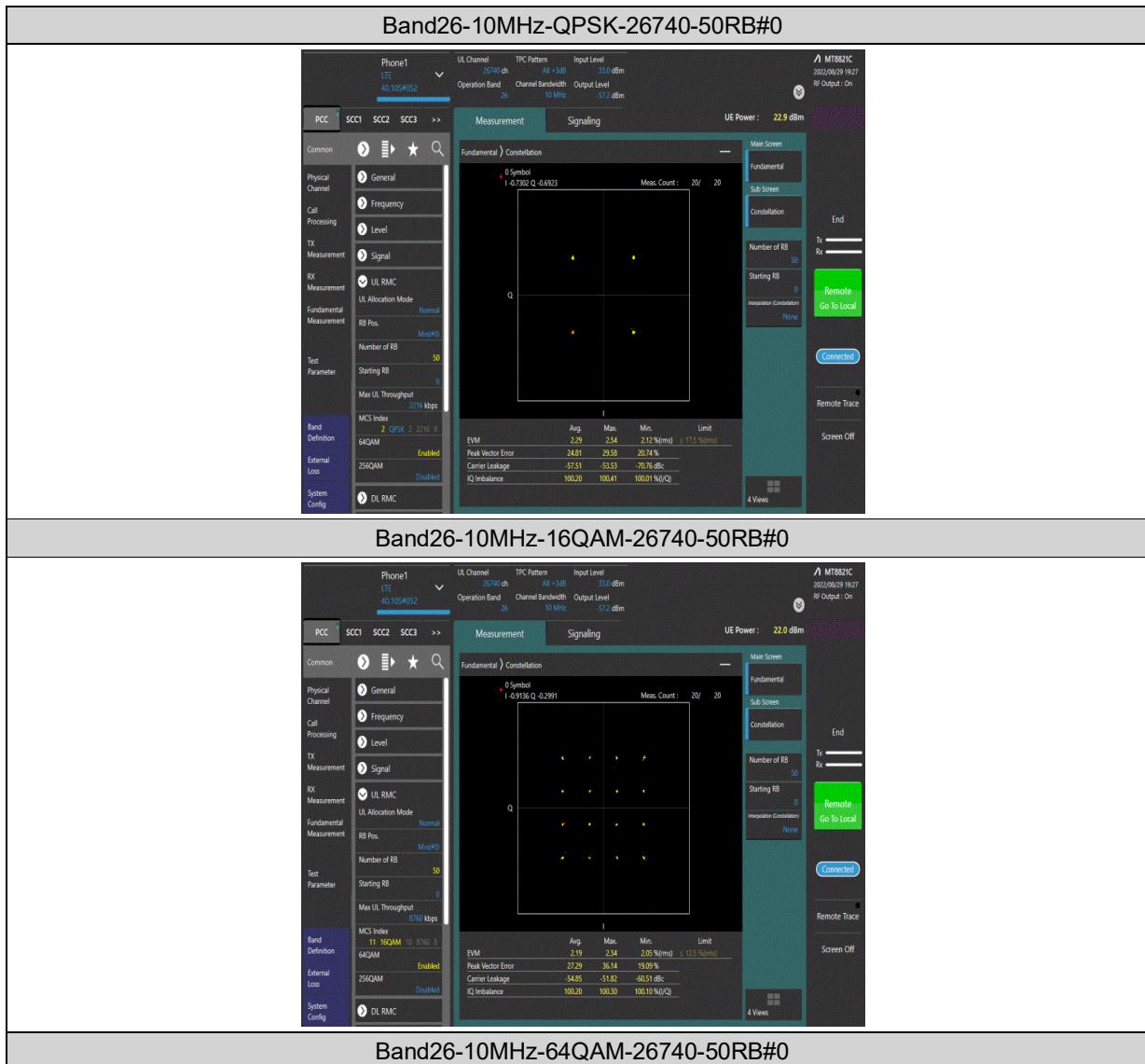
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 Rev.: 01
 Page: 10 of 39

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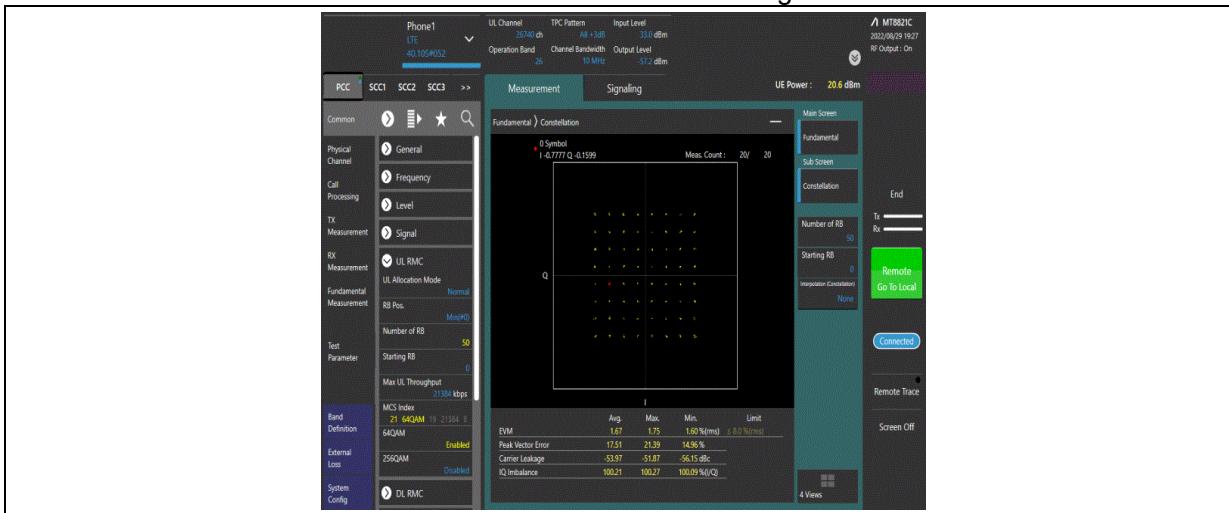
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 Rev.: 01
 Page: 11 of 39



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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 12 of 39

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	1.084	1.23	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.084	1.23	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.084	1.23	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.092	1.24	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.092	1.24	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.09	1.24	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.09	1.24	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.09	1.24	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.691	2.99	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.693	2.98	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.99	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.687	2.99	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.688	2.99	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.684	2.99	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.685	2.96	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.687	2.97	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.685	2.98	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.469	4.88	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.467	4.87	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.467	4.86	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.468	4.91	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.468	4.88	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.90	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.474	4.90	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.477	4.90	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.482	4.90	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.926	9.68	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.908	9.62	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.936	9.62	PASS

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 Rev.: 01
 Page: 13 of 39

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 Rev.: 01
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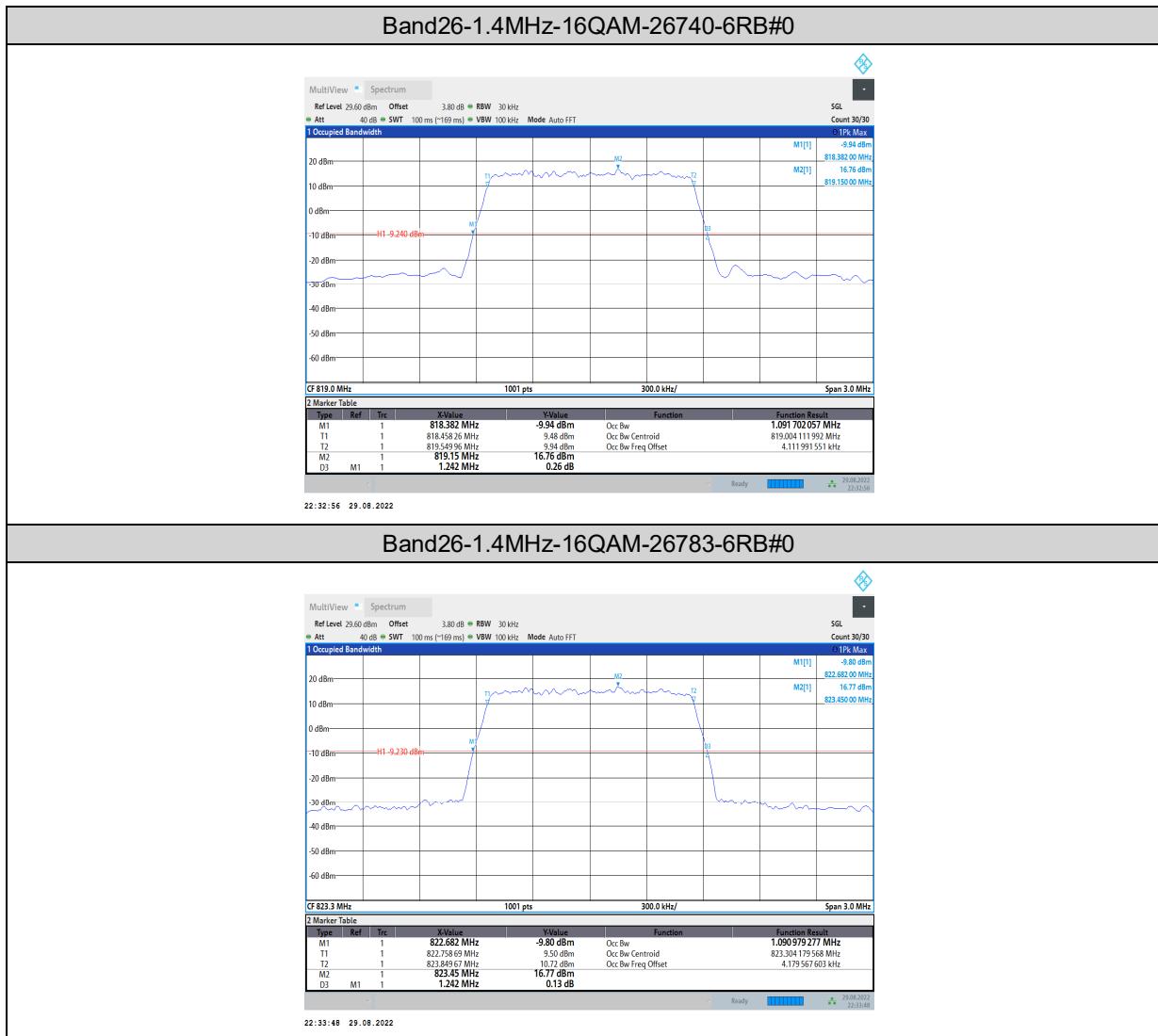


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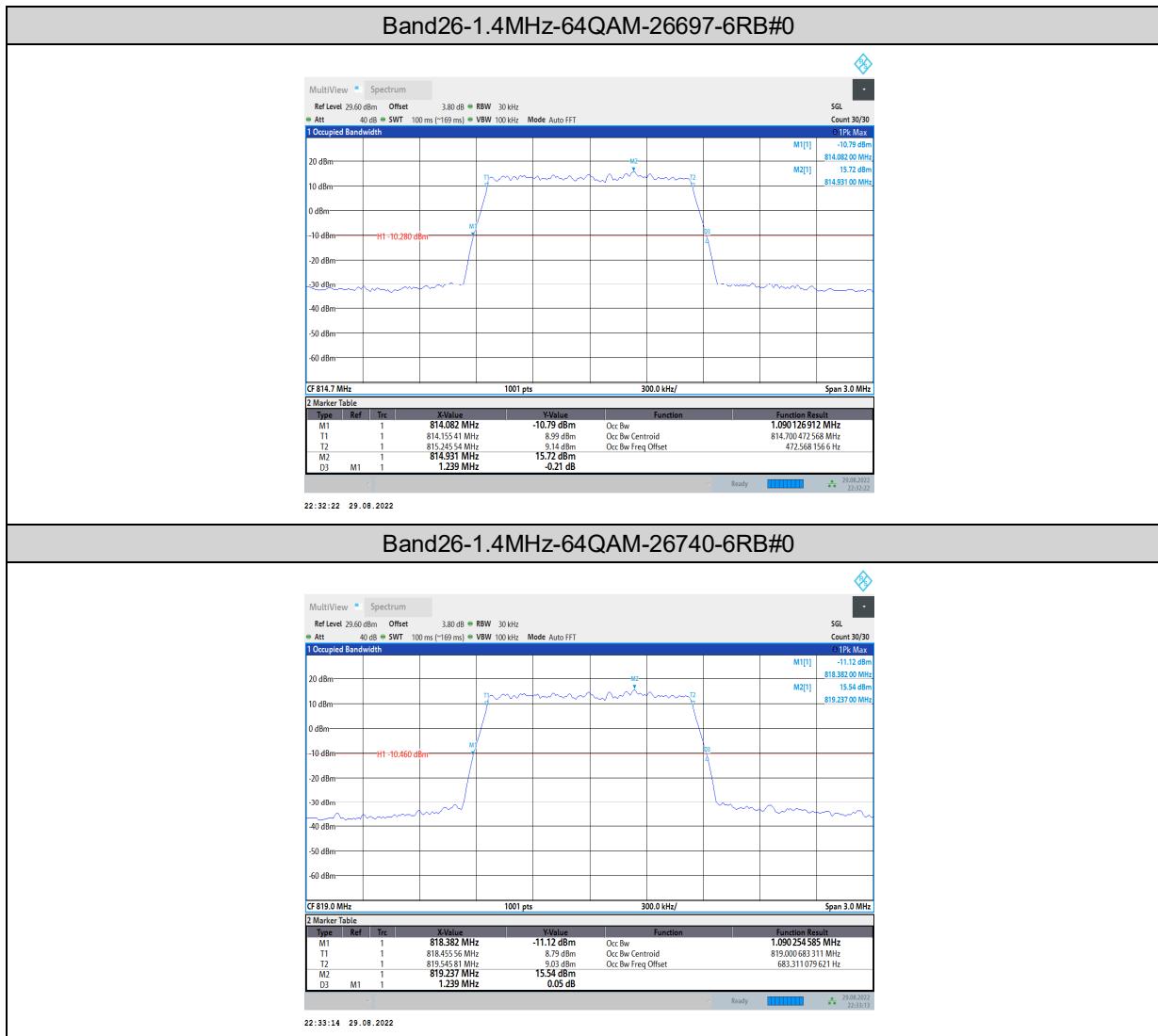
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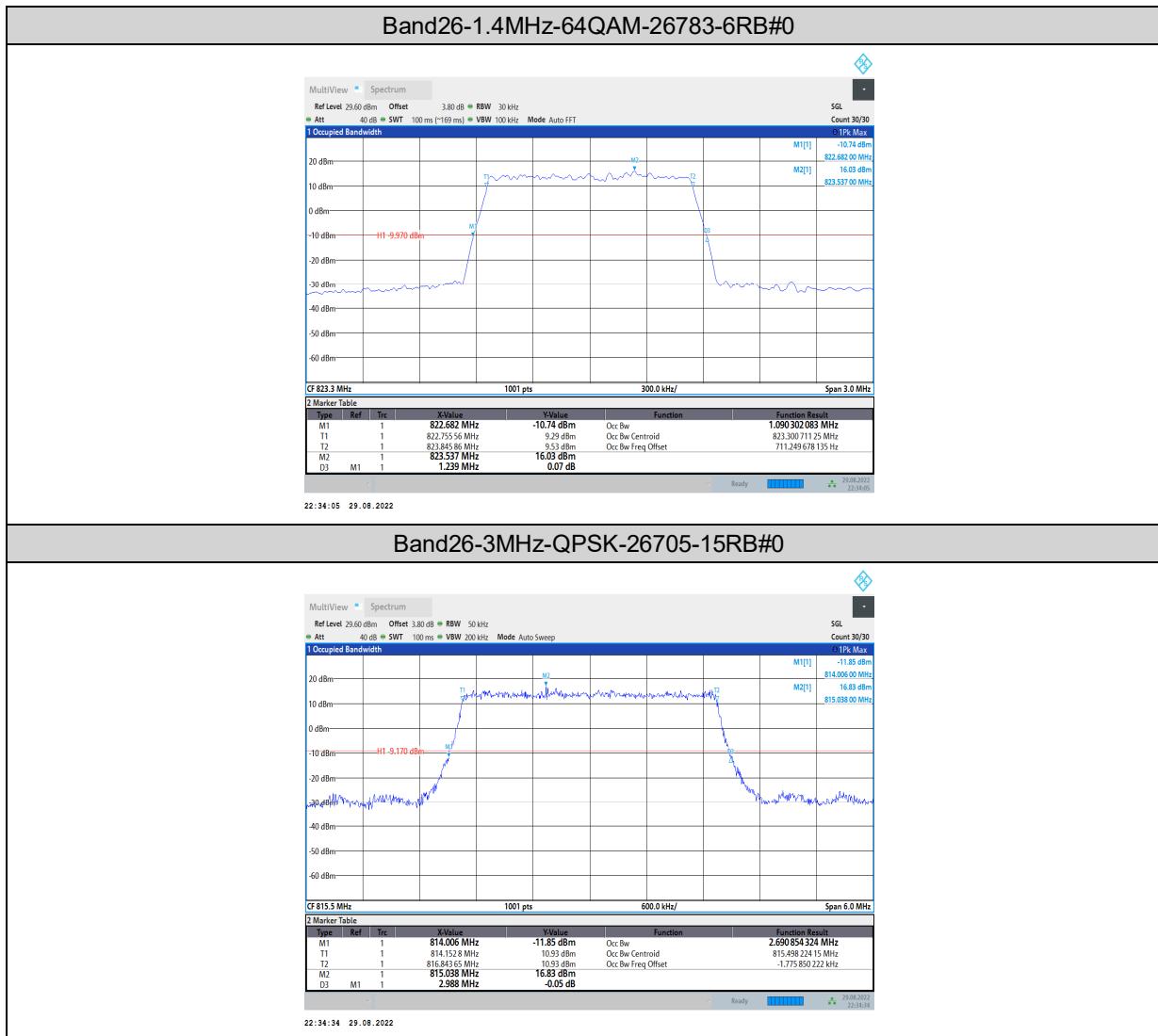
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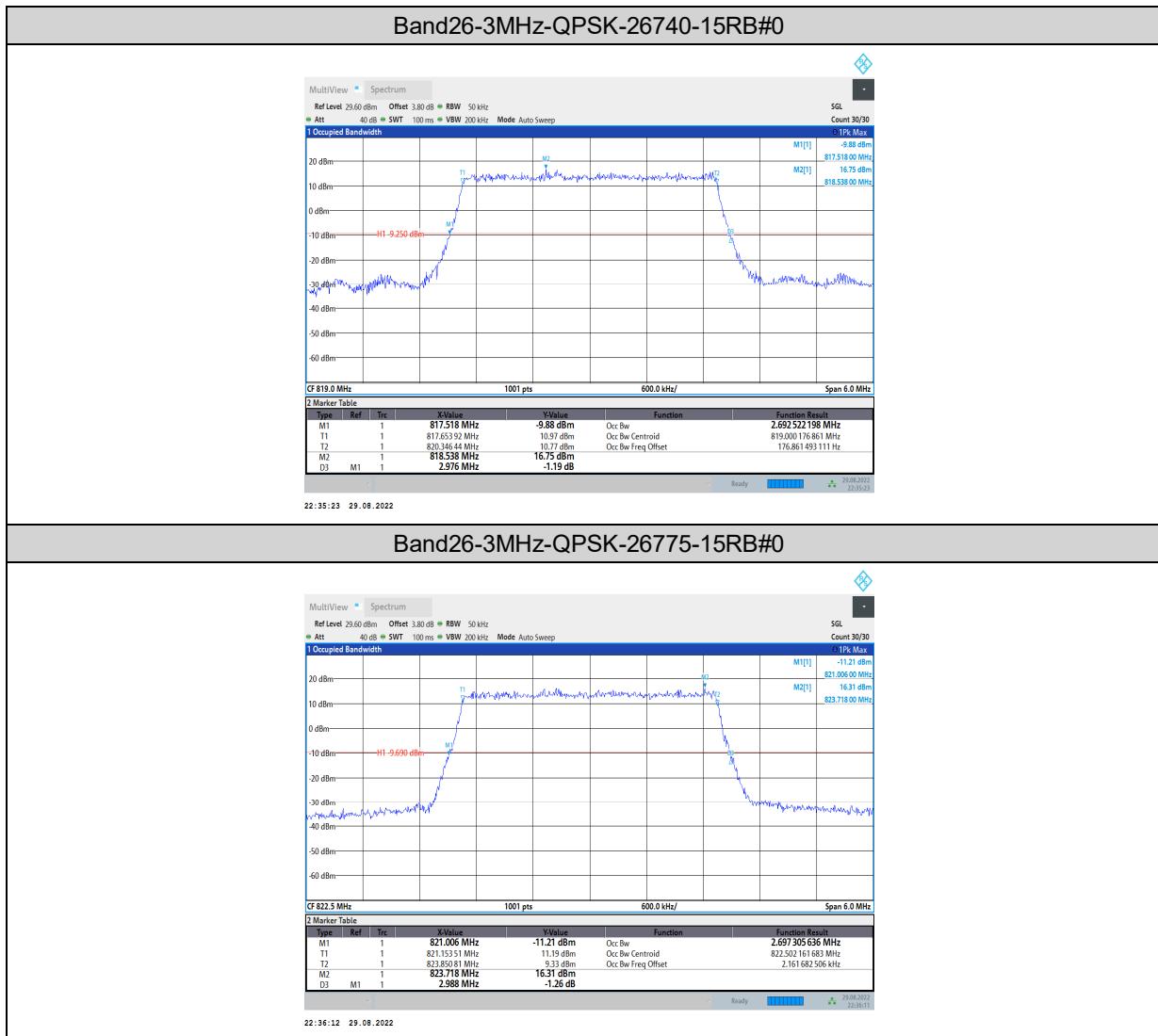


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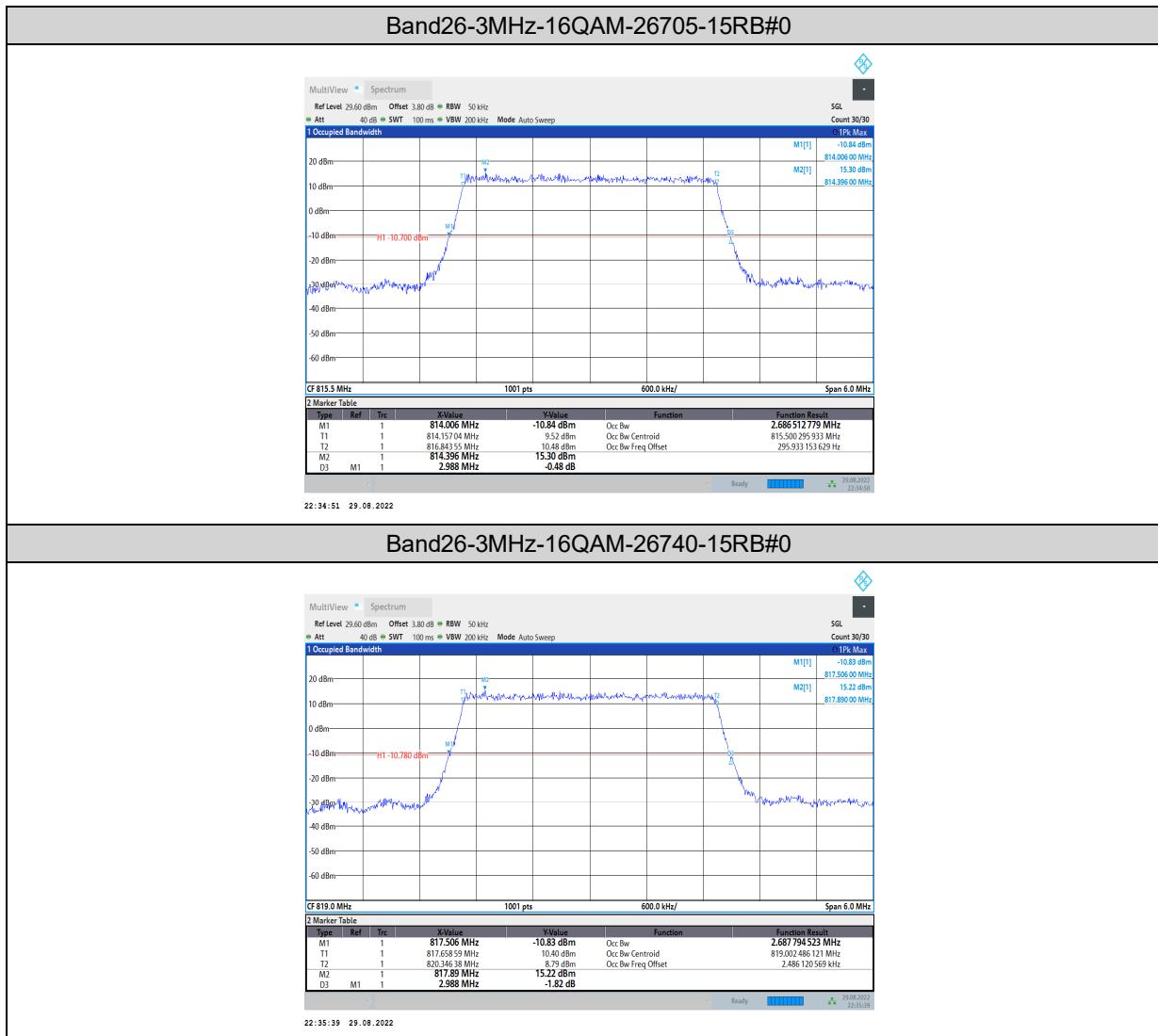
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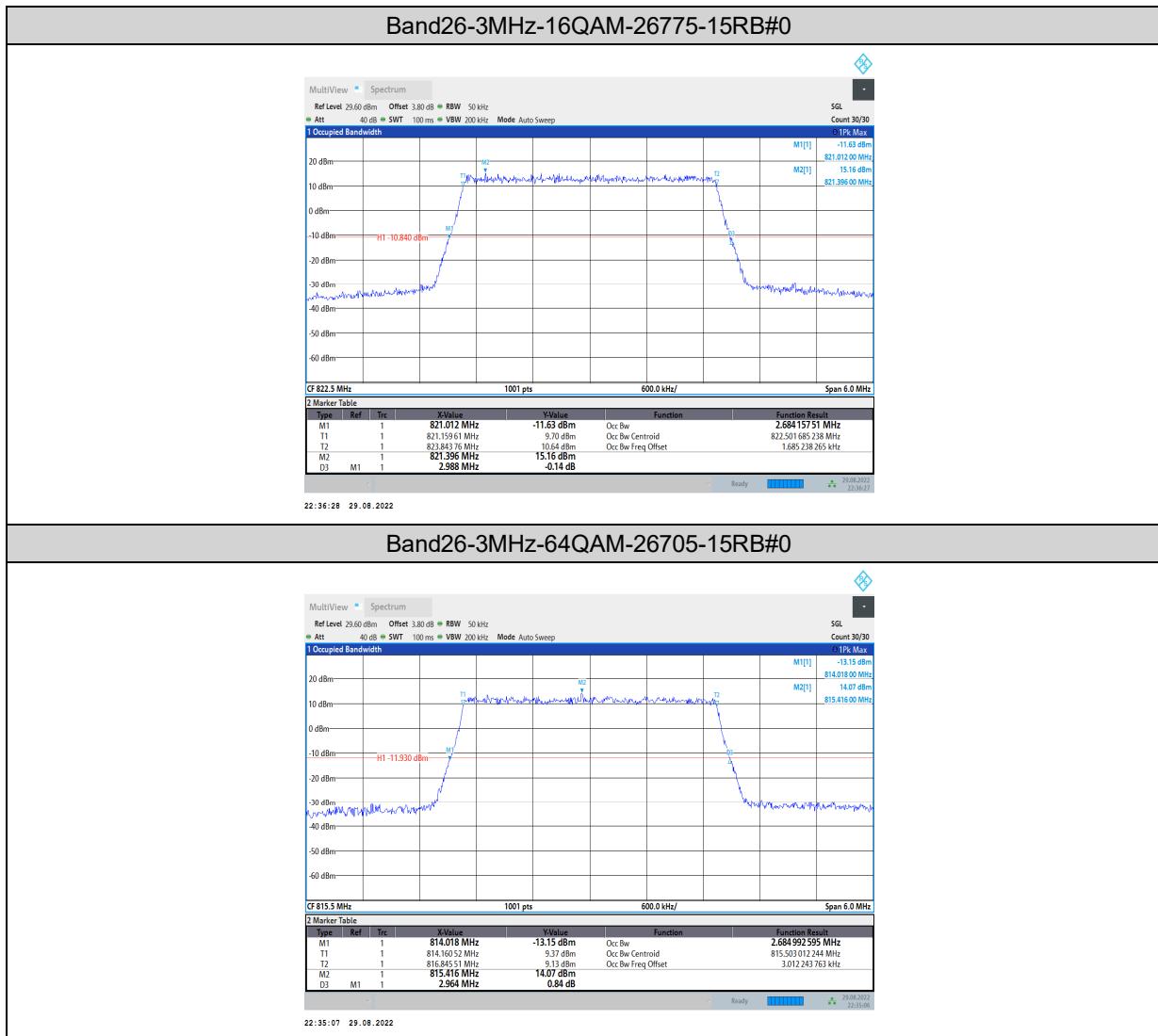


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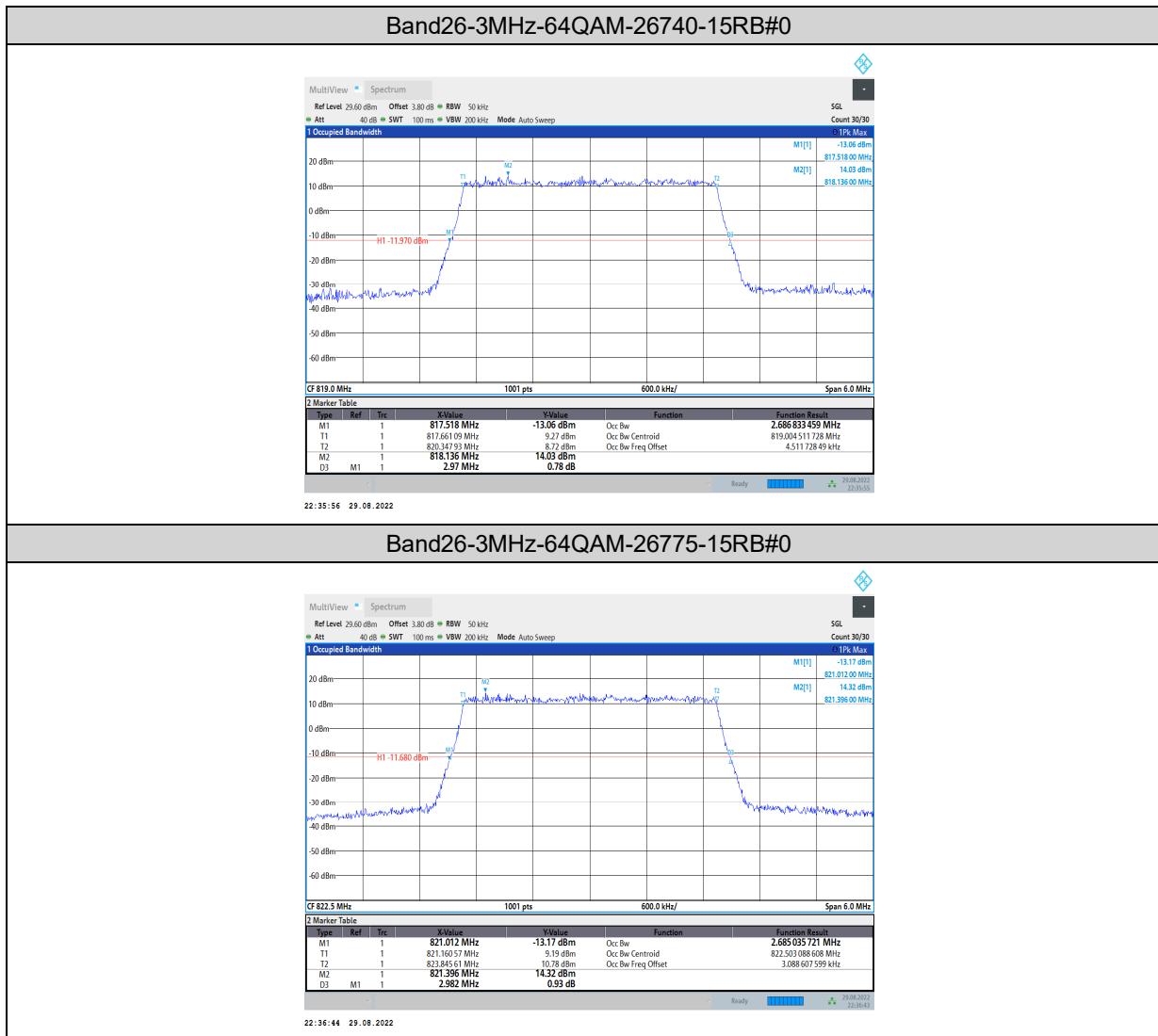
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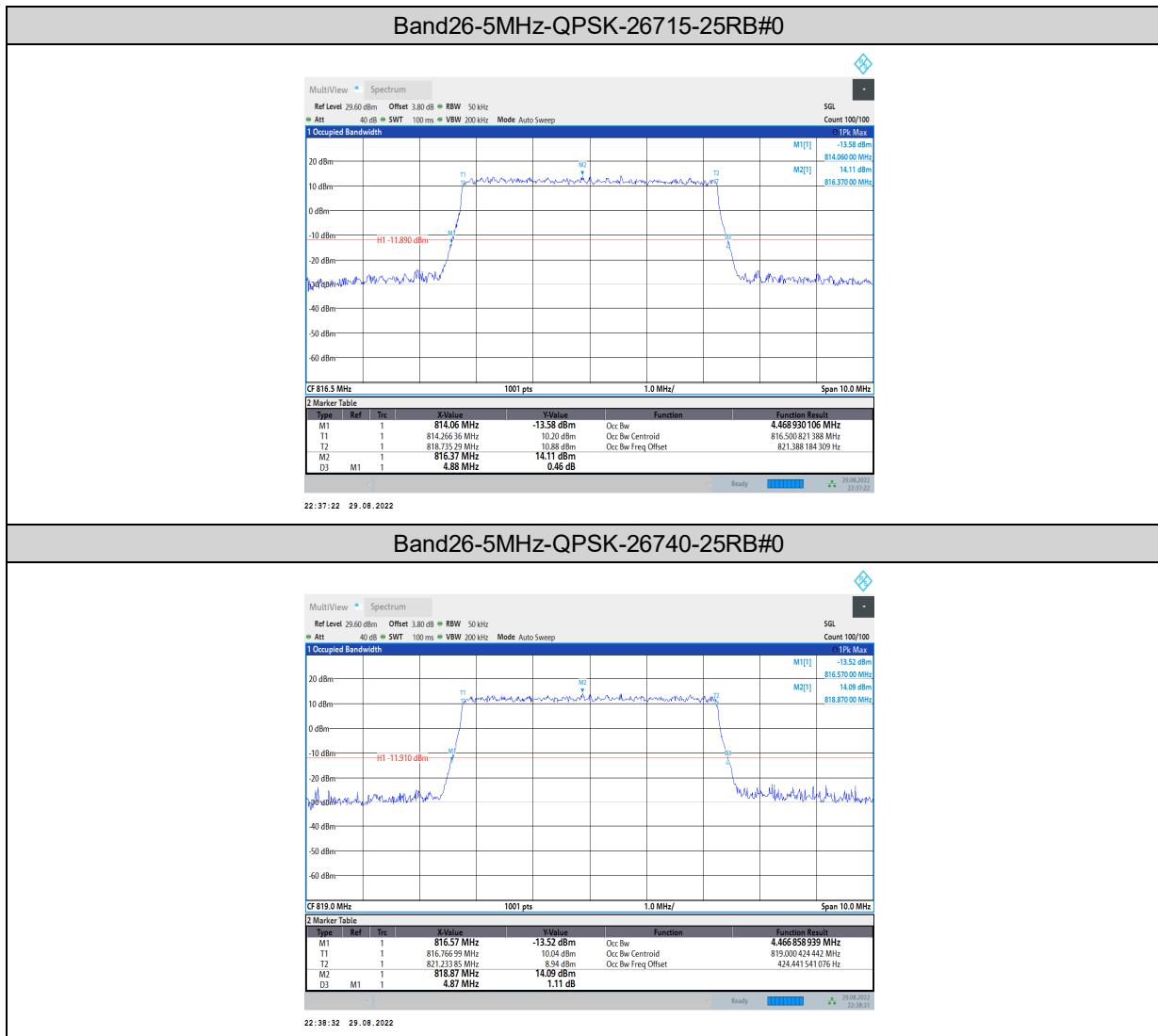
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 Page: 22 of 39



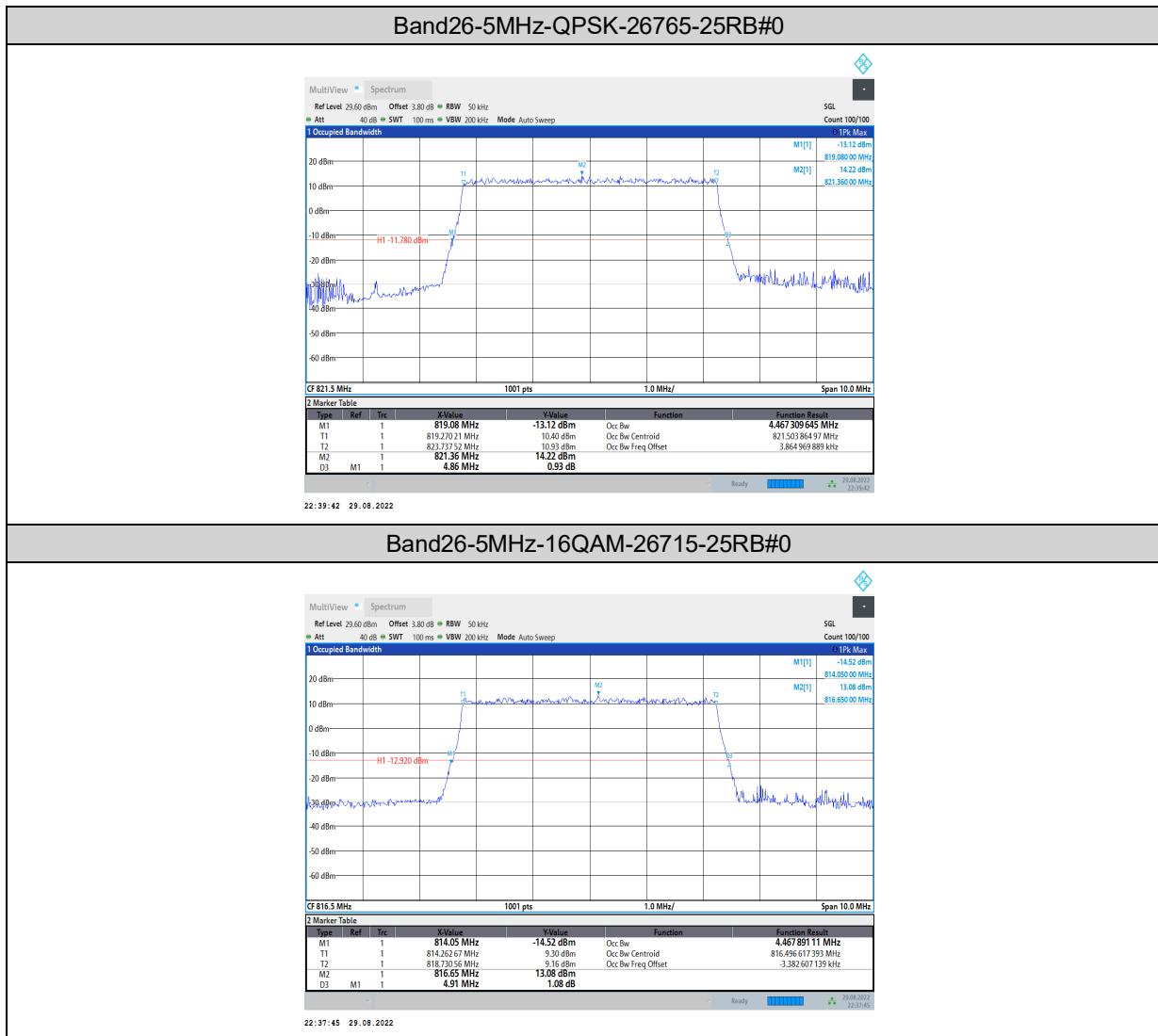
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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 23 of 39



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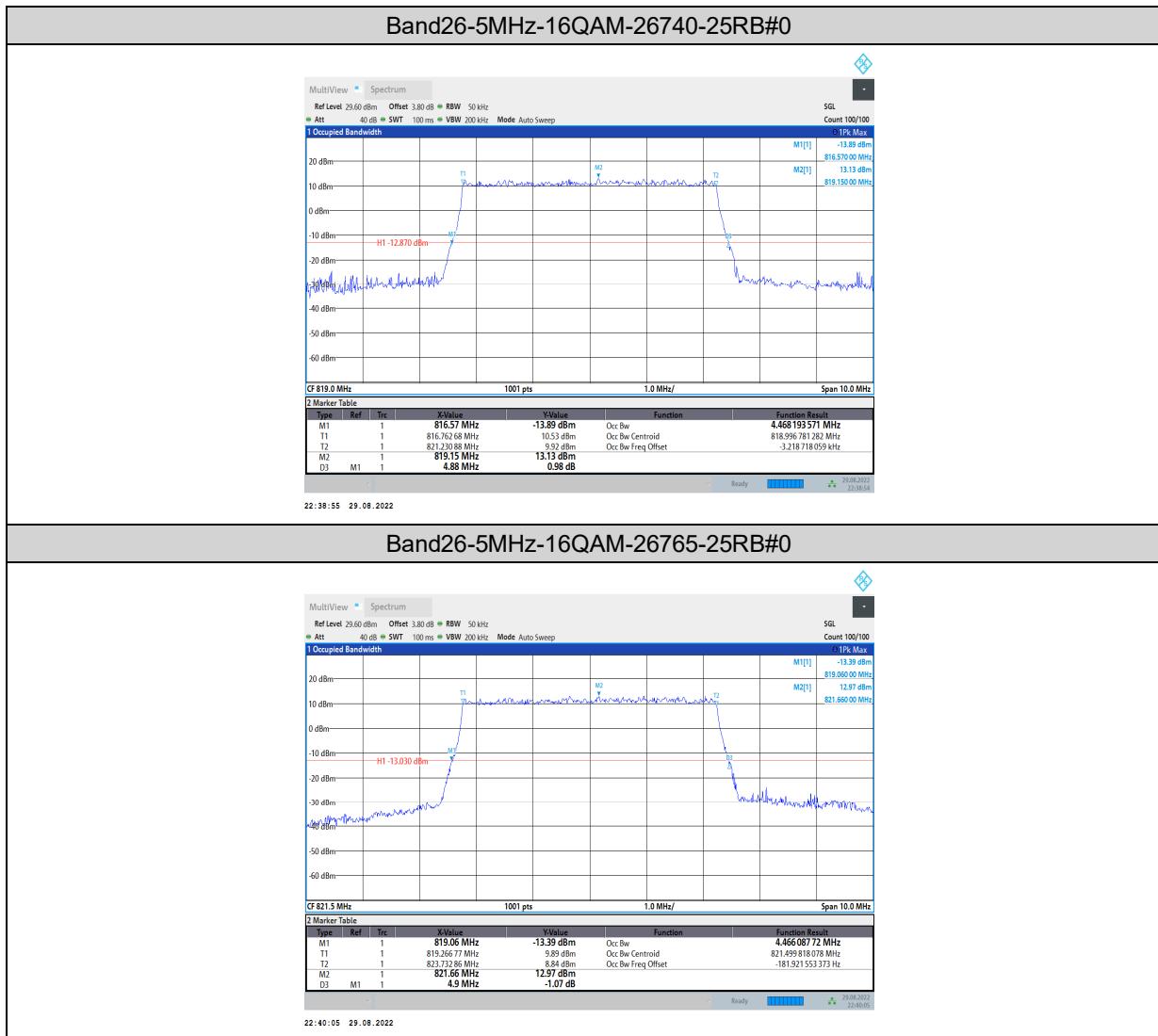
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 Rev.: 01
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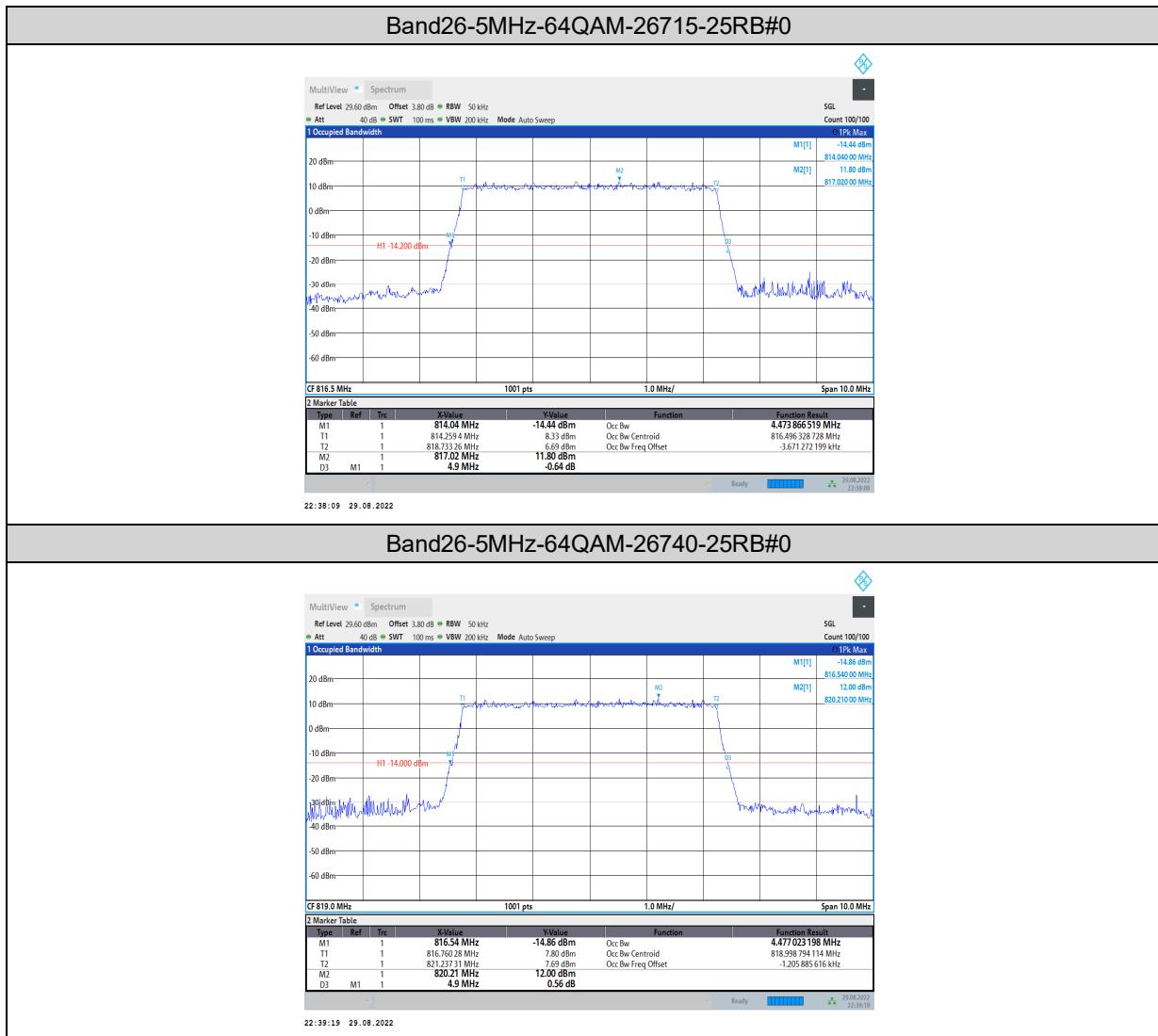


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 Rev.: 01
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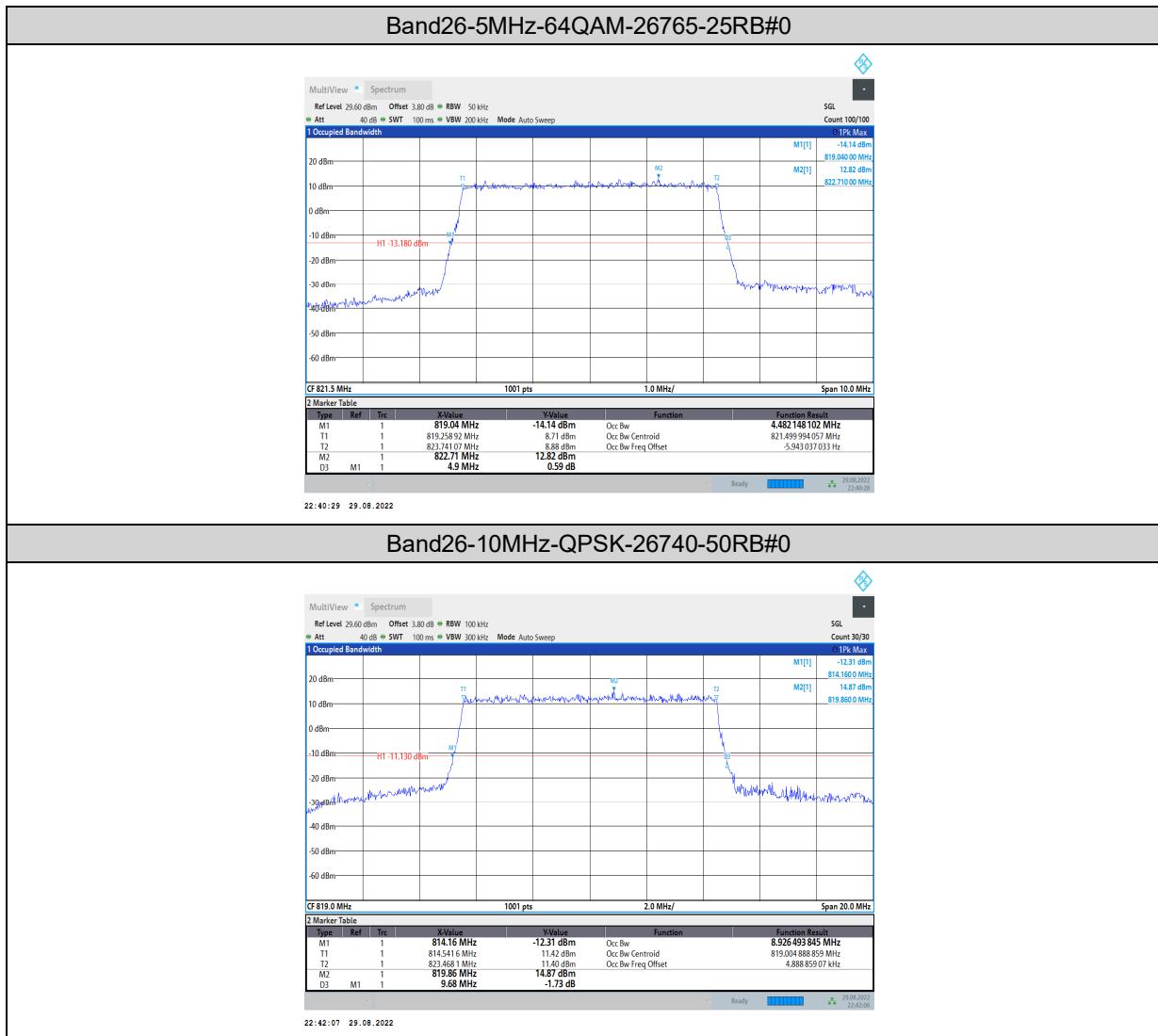
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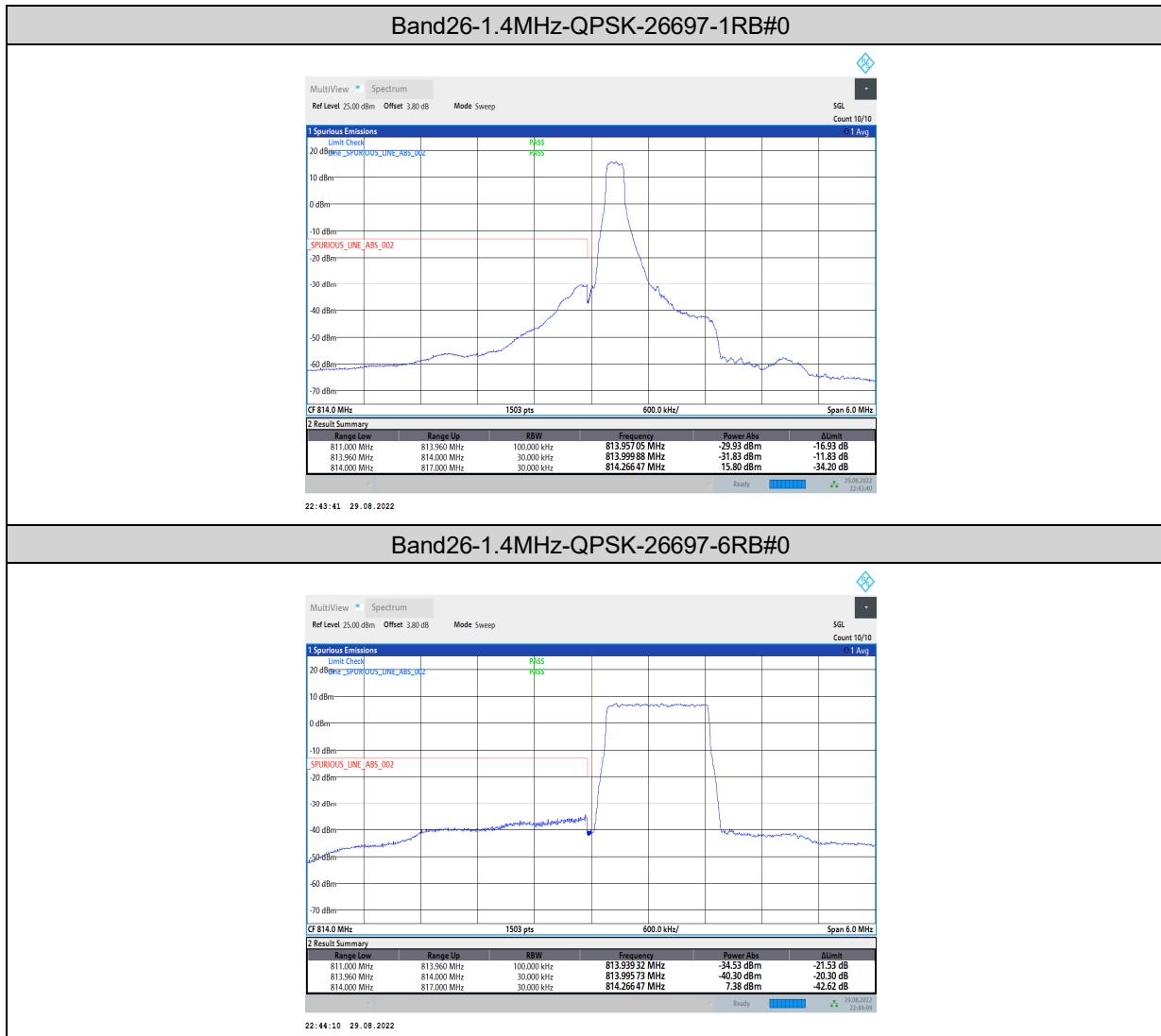
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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 28 of 39

Band Edge

Test Graphs



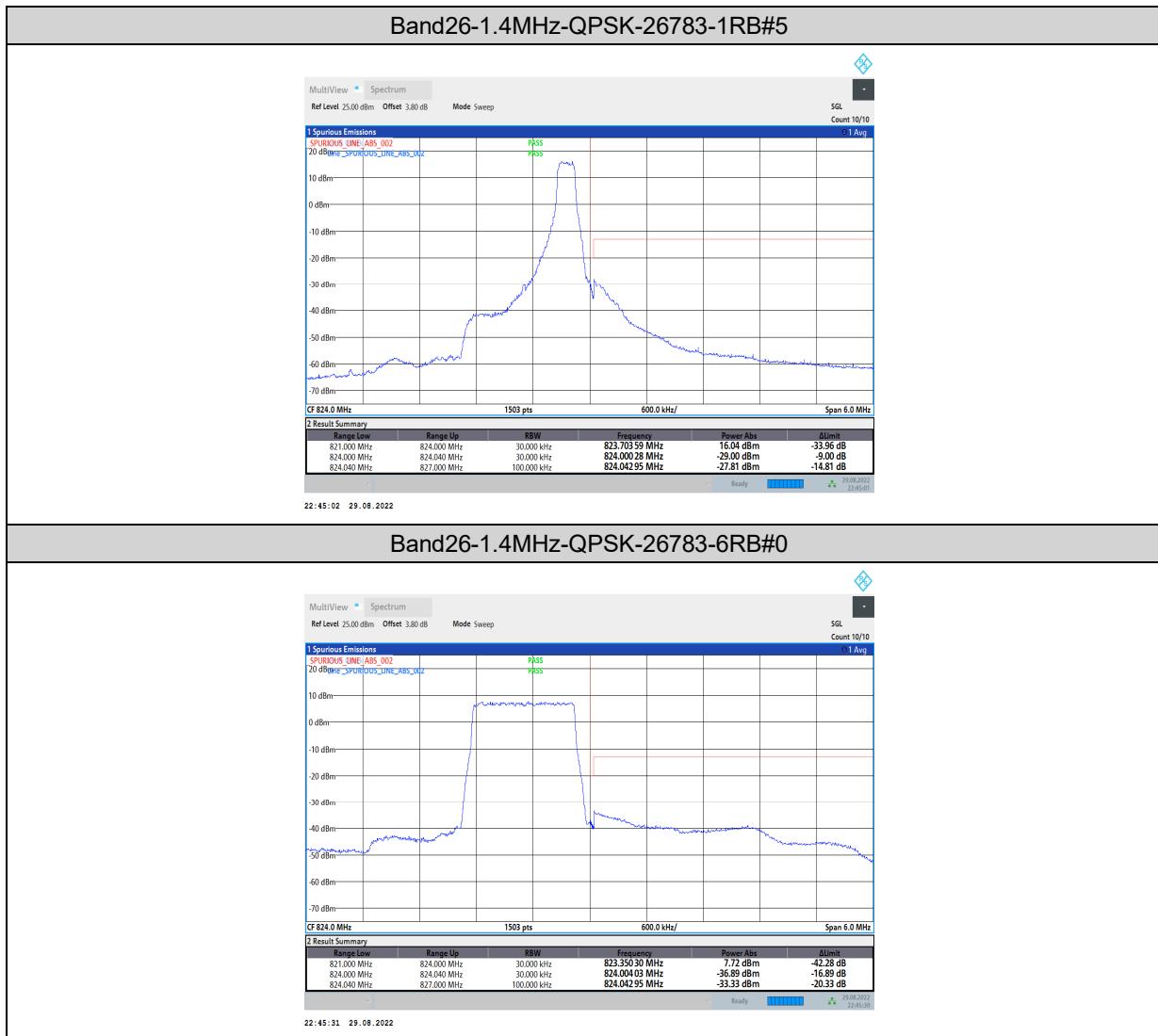
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Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 29 of 39



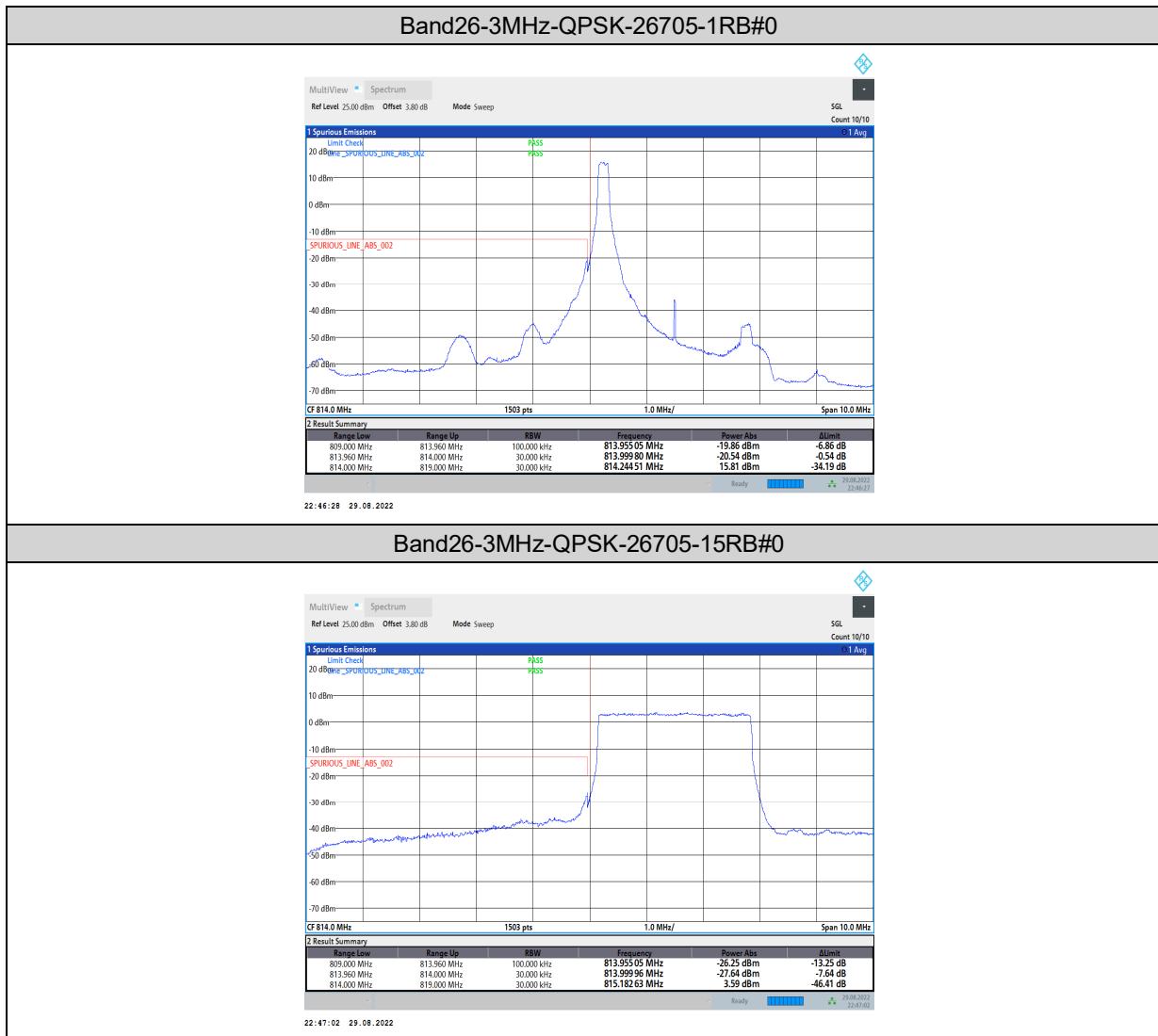
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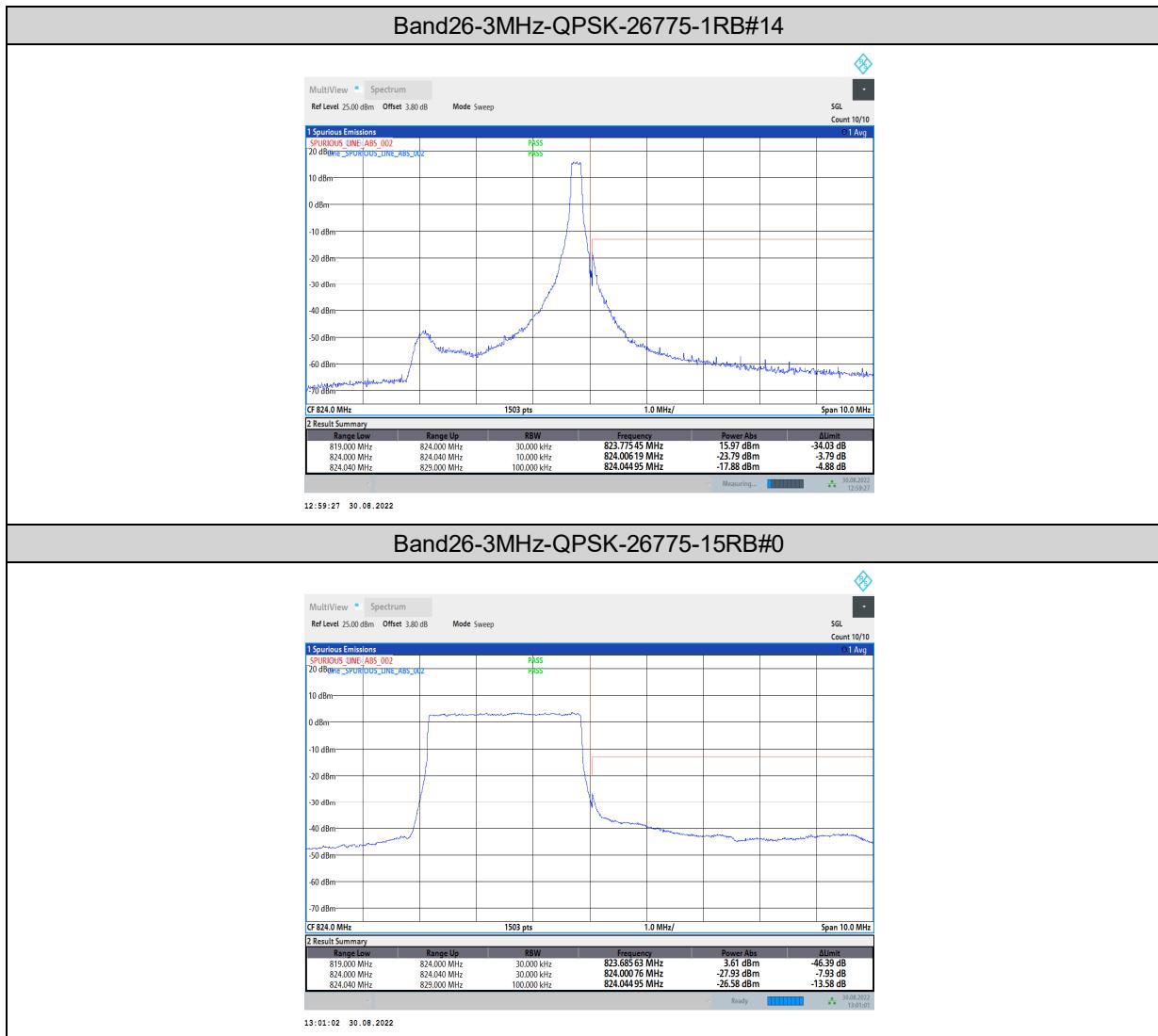
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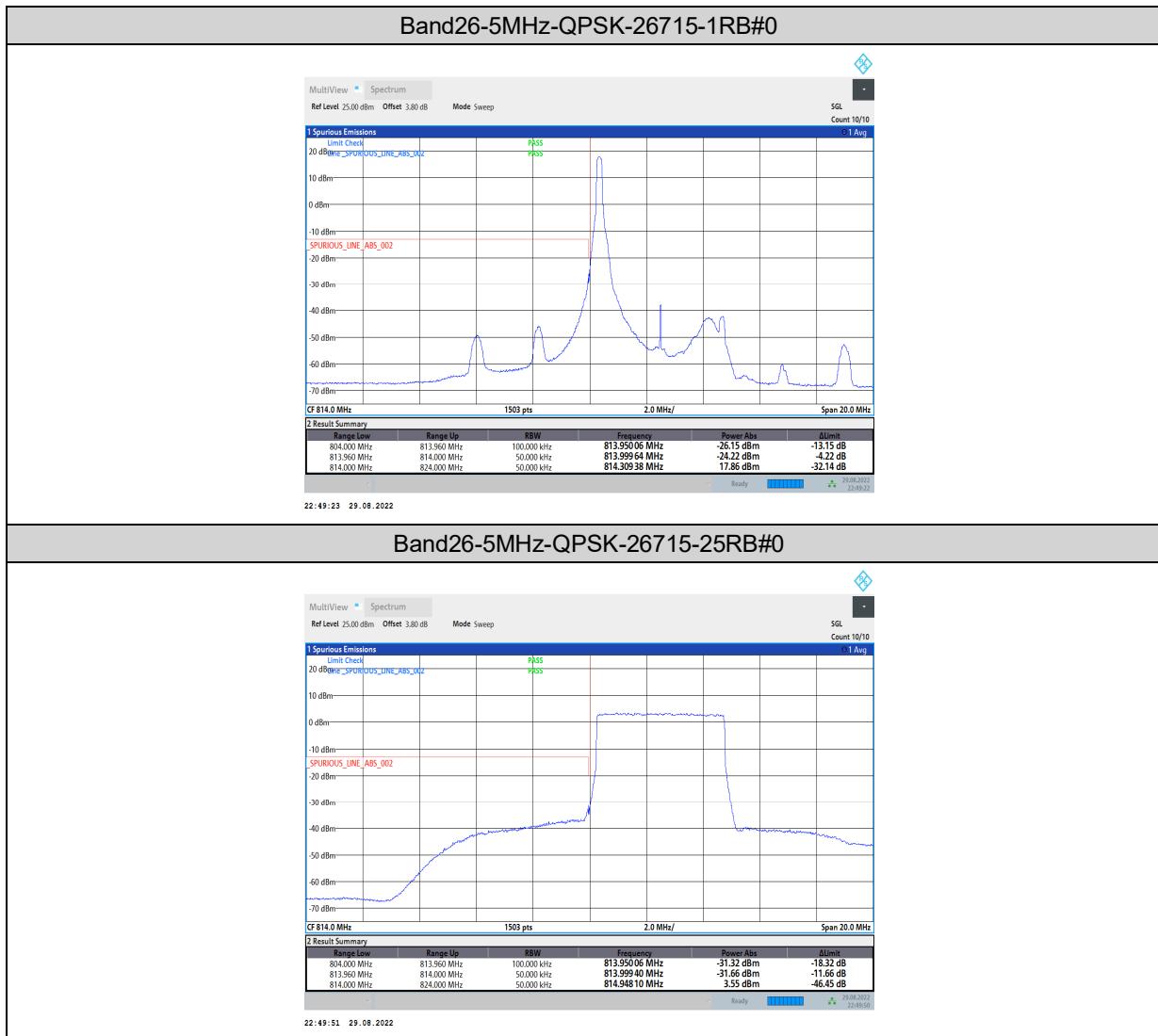
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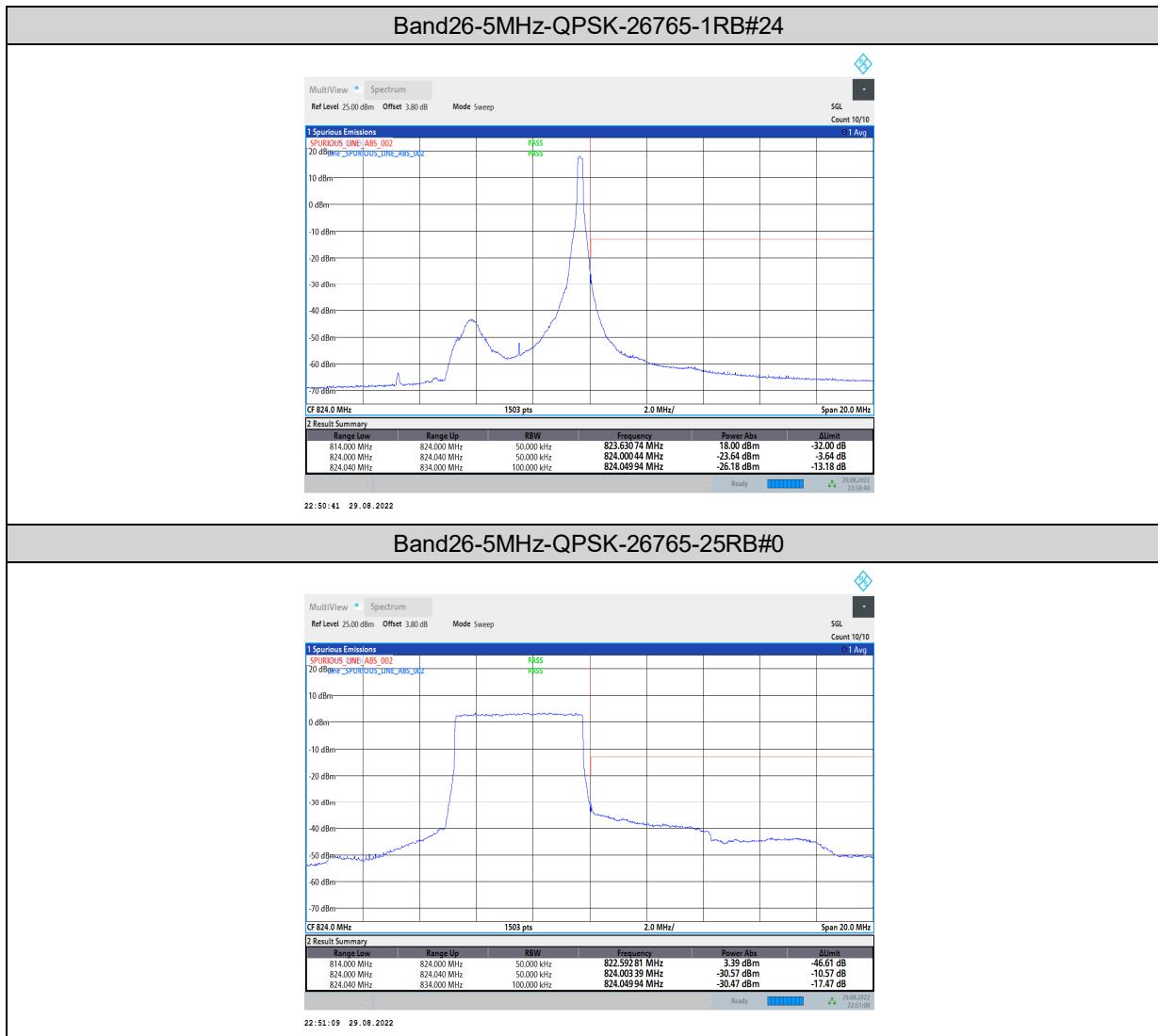
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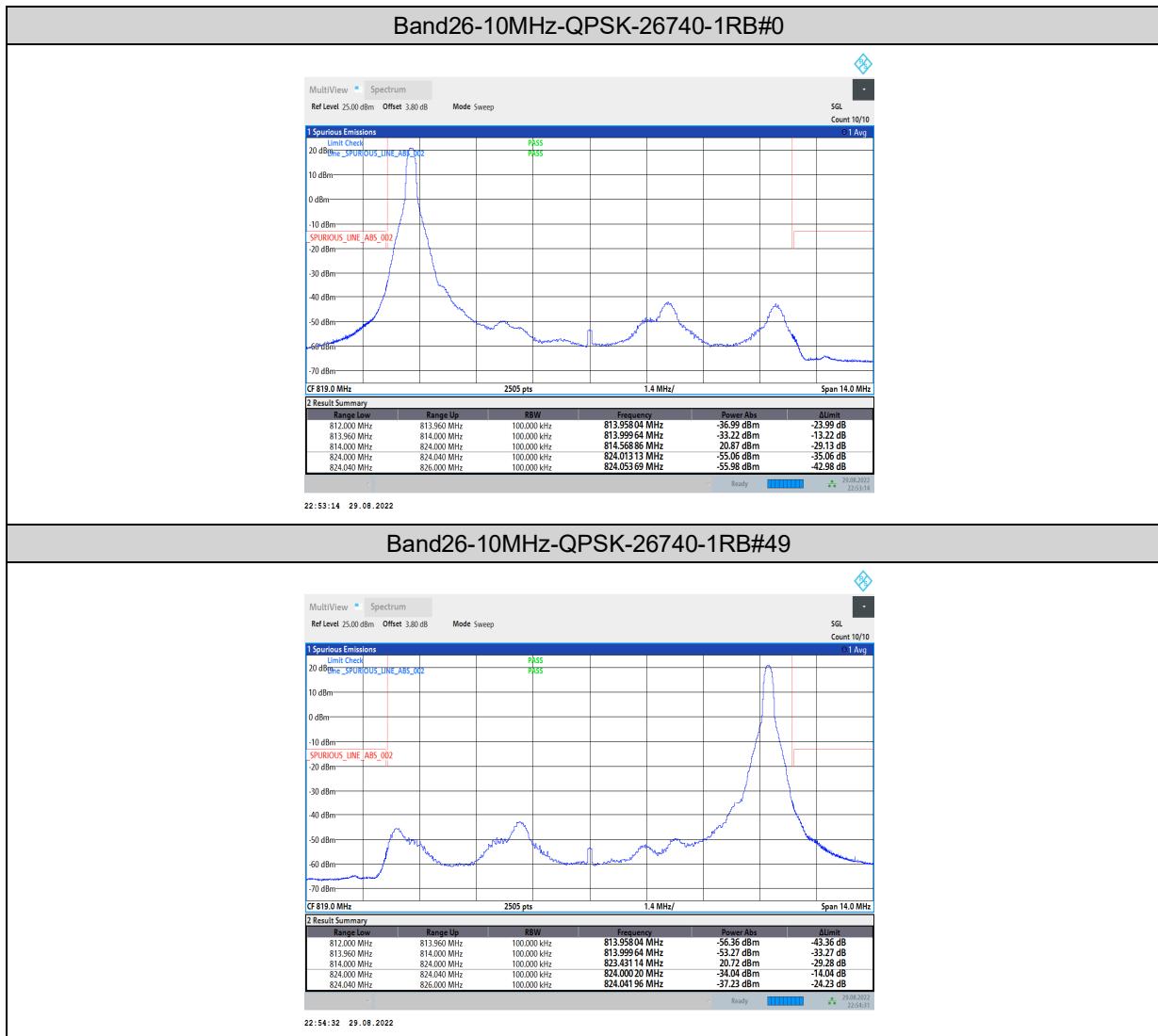


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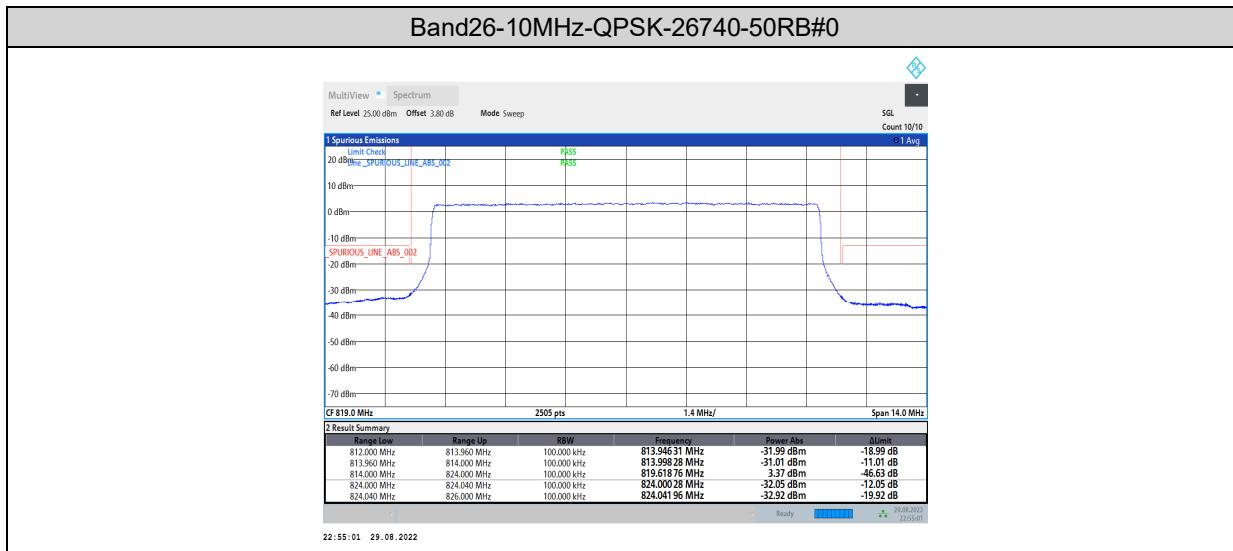
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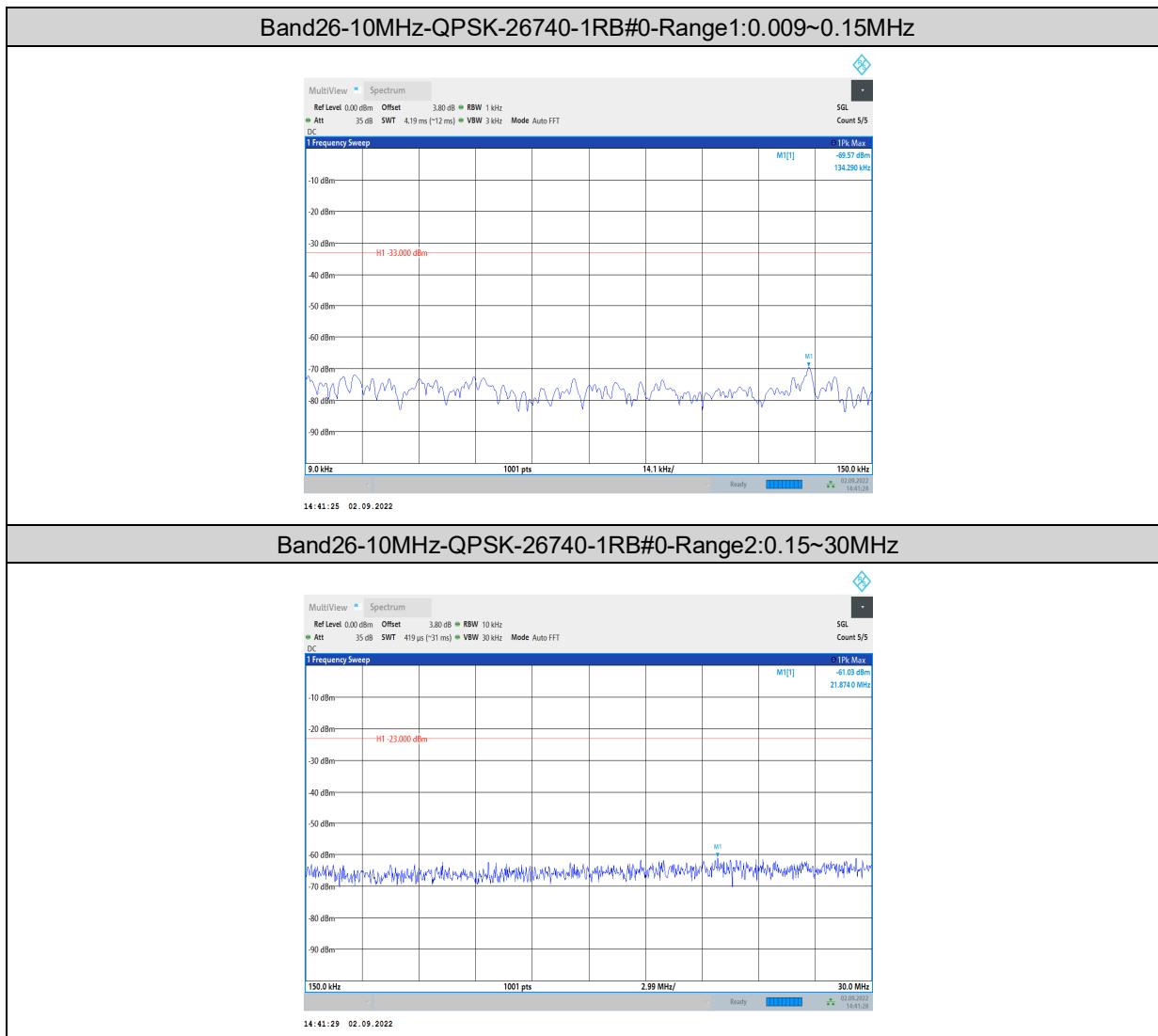
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Conducted Spurious Emission

Test Graphs



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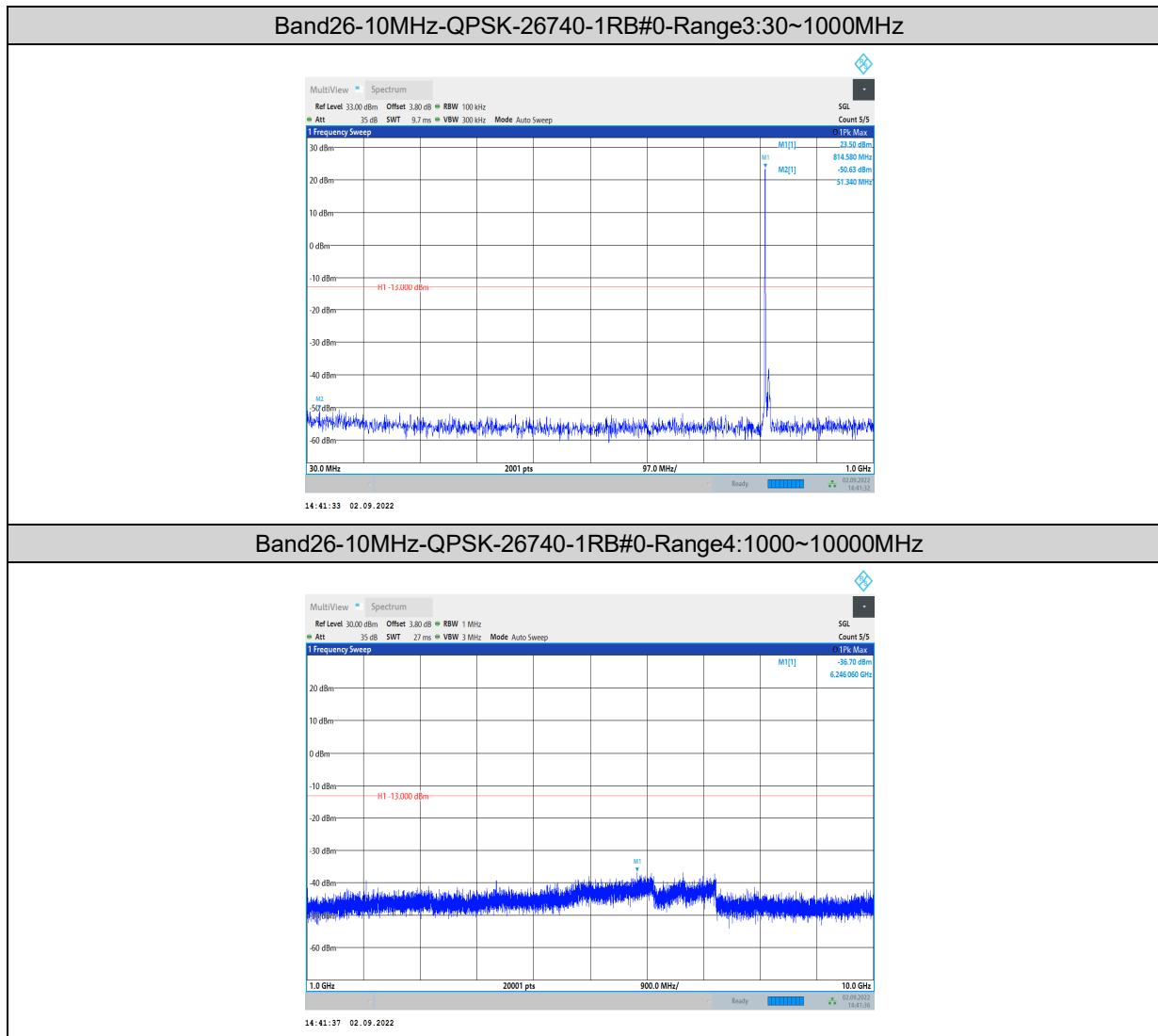
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 Rev.: 01
 Page: 37 of 39



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1 South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

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号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWA2204000009RG01
 Rev.: 01
 Page: 38 of 39

Field Strength of Spurious Radiation

Test Band = LTE Band 26 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.18	53.45	-48.44	25.59	-64.66	-13.00	51.66	142	6	Horizontal
2	2443.77	51.27	-47.22	27.79	-63.42	-13.00	50.42	265	289	Horizontal
3	3258.36	49.61	-46.18	29.50	-62.33	-13.00	49.33	284	92	Horizontal
4	4072.95	49.77	-45.43	30.72	-60.21	-13.00	45.08	175	311	Horizontal
5	4887.54	49.64	-45.08	32.33	-58.37	-13.00	45.37	233	244	Horizontal
6	5702.13	49.21	-43.56	33.25	-56.36	-13.00	43.36	201	128	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.18	52.59	-48.44	25.59	-65.52	-13.00	52.52	142	47	Vertical
2	2443.77	52.55	-47.22	27.79	-62.14	-13.00	49.14	265	360	Vertical
3	3258.36	49.92	-46.18	29.50	-62.02	-13.00	49.02	284	197	Vertical
4	4072.95	56.18	-45.43	30.72	-53.80	-13.00	40.80	174	266	Vertical
5	4887.54	50.68	-45.08	32.33	-57.33	-13.00	44.33	155	266	Vertical
6	5702.13	49.57	-43.56	33.25	-56.00	-13.00	43.00	263	184	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.: SEWA2204000009RG01
 Rev.: 01
 Page: 39 of 39

Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-4.70	-0.005739	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-3.20	-0.003907	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-5.10	-0.006227	±2.5	PASS

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	-4.30	-0.005250	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-8.50	-0.010379	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-5.80	-0.007082	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-3.90	-0.004762	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-3.80	-0.004640	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-4.20	-0.005128	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-2.20	-0.002686	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-7.50	-0.009158	±2.5	PASS

---End of Attachment---



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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号厂房南部 邮编: 215000
 t (86-512) 62992980 www.sgsgroup.com.cn
 t (86-512) 62992980 sgs.china@sgs.com