



Report No.: SEWA2208000034RG01

Rev.: 01

Page: 1 of 39

Appendix B.9

LTE Band 26(814-824)



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Report No.: SEWA2208000034RG01
 Rev.: 01
 Page: 2 of 39

Transmitter Conducted Power Output

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Limit(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	22.96	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.04	50	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	22.96	50	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.07	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	22.98	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.01	50	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	22.96	50	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.01	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	22.88	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	22.96	50	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.04	50	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.05	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.19	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.38	50	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.23	50	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.17	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.27	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.28	50	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.27	50	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.10	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.24	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.28	50	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.37	50	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.14	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#0	21.20	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#2	21.22	50	PASS
Band26	1.4MHz	64QAM	26697	1RB#5	21.11	50	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	20.02	50	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 3 of 39

Band26	1.4MHz	64QAM	26740	1RB#0	21.16	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#2	21.13	50	PASS
Band26	1.4MHz	64QAM	26740	1RB#5	21.17	50	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	19.98	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#0	21.18	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#2	21.08	50	PASS
Band26	1.4MHz	64QAM	26783	1RB#5	21.24	50	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	20.03	50	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.00	50	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.03	50	PASS
Band26	3MHz	QPSK	26705	1RB#14	22.96	50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.10	50	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.03	50	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.02	50	PASS
Band26	3MHz	QPSK	26740	1RB#14	22.98	50	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.08	50	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.00	50	PASS
Band26	3MHz	QPSK	26775	1RB#8	22.99	50	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.07	50	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.11	50	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.16	50	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.36	50	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.22	50	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.14	50	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.32	50	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.34	50	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.16	50	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.14	50	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.38	50	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.36	50	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.38	50	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.16	50	PASS



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Rev.: 01

Page: 4 of 39

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Band26	3MHz	64QAM	26705	1RB#8	21.27	50	PASS
Band26	3MHz	64QAM	26705	1RB#14	21.20	50	PASS
Band26	3MHz	64QAM	26705	15RB#0	20.11	50	PASS
Band26	3MHz	64QAM	26740	1RB#0	21.26	50	PASS
Band26	3MHz	64QAM	26740	1RB#8	21.17	50	PASS
Band26	3MHz	64QAM	26740	1RB#14	21.26	50	PASS
Band26	3MHz	64QAM	26740	15RB#0	20.11	50	PASS
Band26	3MHz	64QAM	26775	1RB#0	21.26	50	PASS
Band26	3MHz	64QAM	26775	1RB#8	21.15	50	PASS
Band26	3MHz	64QAM	26775	1RB#14	21.30	50	PASS
Band26	3MHz	64QAM	26775	15RB#0	20.16	50	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.06	50	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.03	50	PASS
Band26	5MHz	QPSK	26715	1RB#24	22.99	50	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.11	50	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.06	50	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.00	50	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.00	50	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.05	50	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.04	50	PASS
Band26	5MHz	QPSK	26765	1RB#12	22.99	50	PASS
Band26	5MHz	QPSK	26765	1RB#24	22.98	50	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.07	50	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.34	50	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.27	50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.20	50	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.13	50	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.22	50	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.34	50	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.33	50	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.12	50	PASS



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Rev.: 01

Page: 5 of 39

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Band26	5MHz	16QAM	26765	1RB#12	22.28	50	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.19	50	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.05	50	PASS
Band26	5MHz	64QAM	26715	1RB#0	21.25	50	PASS
Band26	5MHz	64QAM	26715	1RB#12	21.21	50	PASS
Band26	5MHz	64QAM	26715	1RB#24	21.14	50	PASS
Band26	5MHz	64QAM	26715	25RB#0	20.11	50	PASS
Band26	5MHz	64QAM	26740	1RB#0	21.21	50	PASS
Band26	5MHz	64QAM	26740	1RB#12	21.18	50	PASS
Band26	5MHz	64QAM	26740	1RB#24	21.18	50	PASS
Band26	5MHz	64QAM	26740	25RB#0	20.09	50	PASS
Band26	5MHz	64QAM	26765	1RB#0	21.27	50	PASS
Band26	5MHz	64QAM	26765	1RB#12	21.13	50	PASS
Band26	5MHz	64QAM	26765	1RB#24	21.14	50	PASS
Band26	5MHz	64QAM	26765	25RB#0	20.06	50	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.09	50	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.00	50	PASS
Band26	10MHz	QPSK	26740	1RB#49	22.94	50	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.12	50	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.42	50	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.40	50	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.25	50	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.13	50	PASS
Band26	10MHz	64QAM	26740	1RB#0	21.33	50	PASS
Band26	10MHz	64QAM	26740	1RB#24	21.24	50	PASS
Band26	10MHz	64QAM	26740	1RB#49	21.19	50	PASS
Band26	10MHz	64QAM	26740	50RB#0	20.11	50	PASS



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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	5.52	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.28	13	PASS
Band26	10MHz	64QAM	26740	50RB#0	6.54	13	PASS



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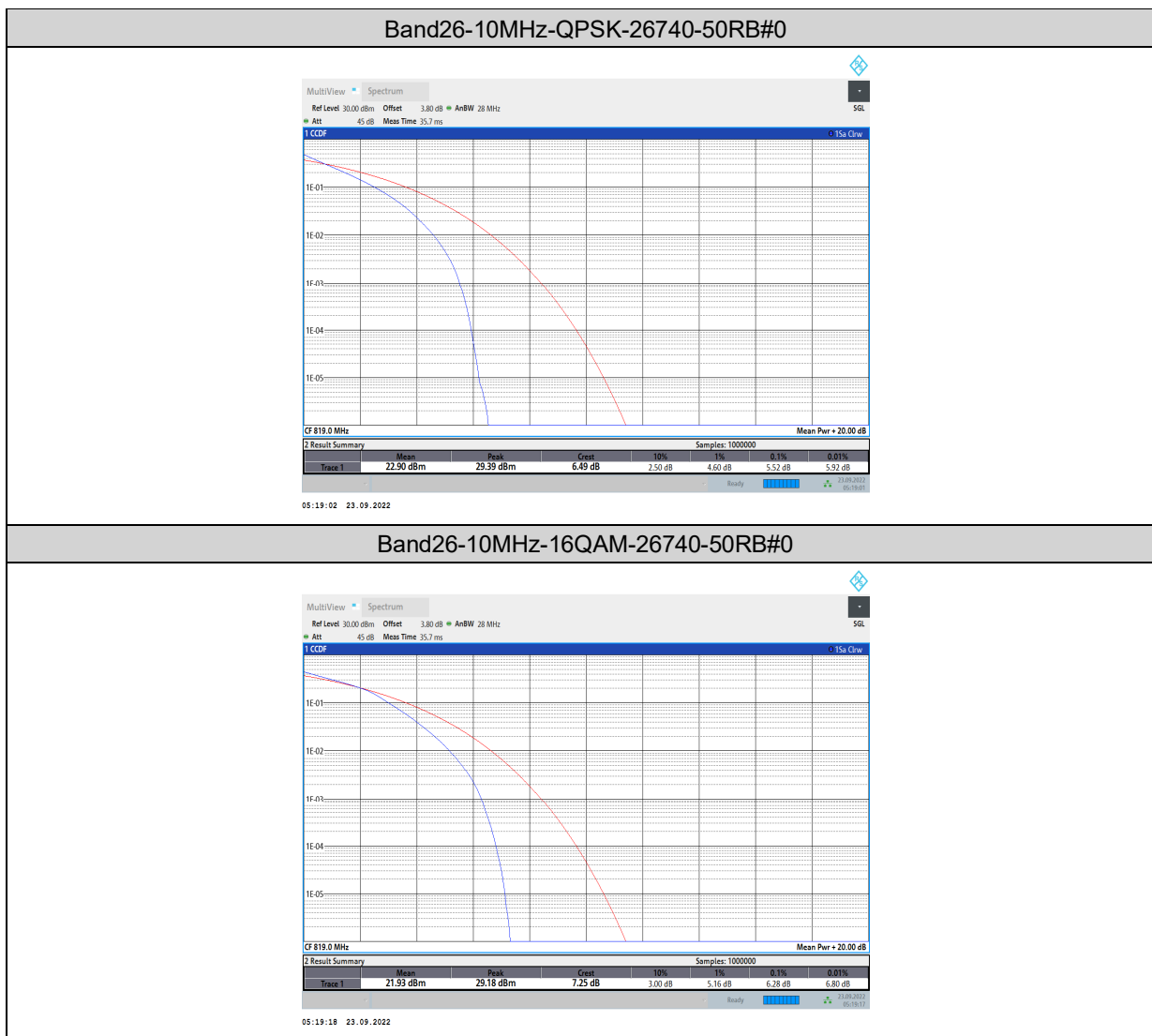
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Rev.: 01
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Test Graphs



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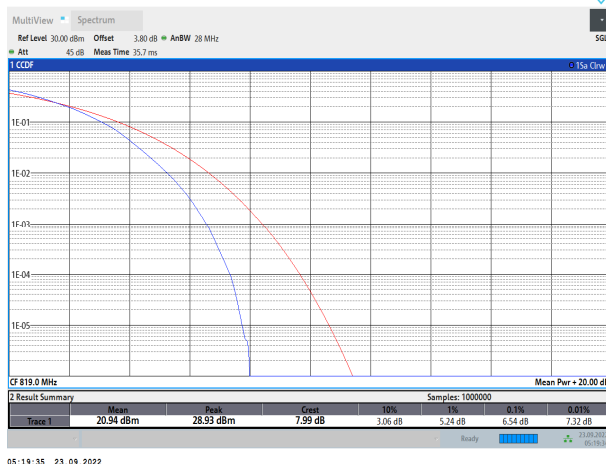
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 8 of 39

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



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Report No.: SEWA2208000034RG01

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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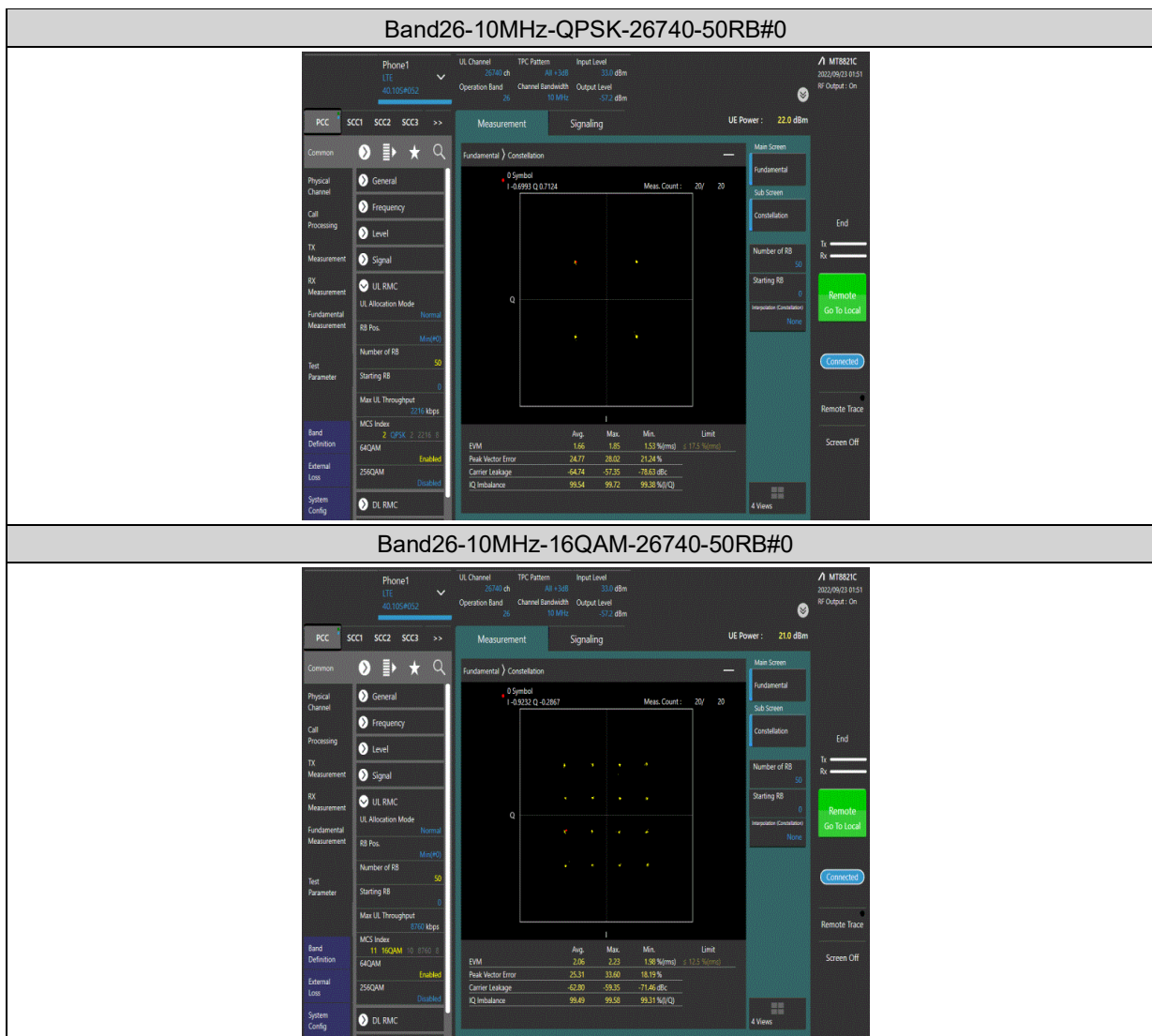
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Rev.: 01

Page: 10 of 39

Test Graphs



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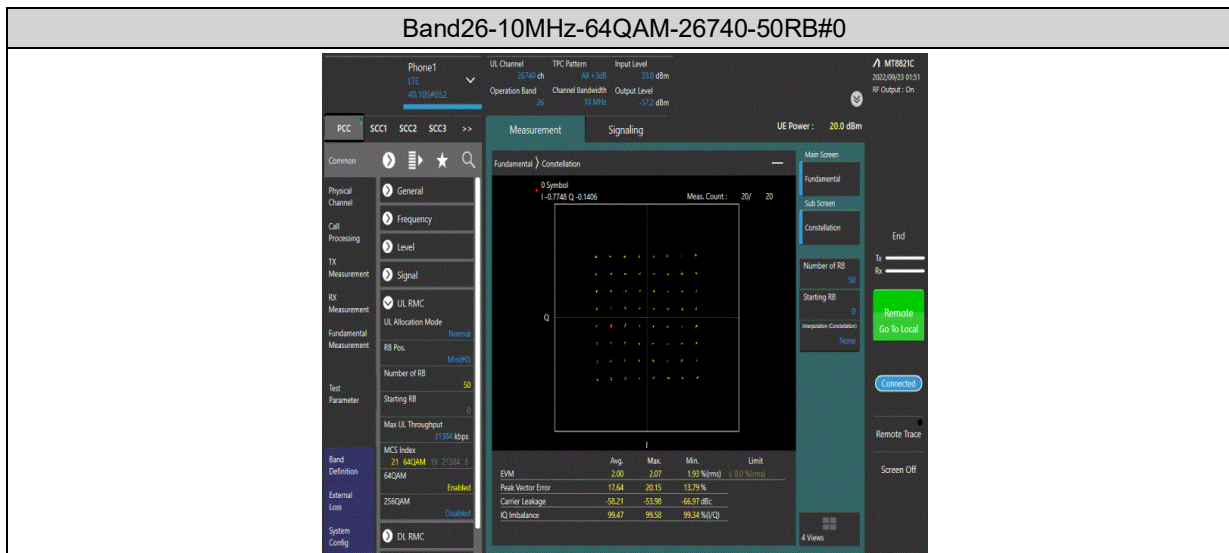
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Page: 11 of 39

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



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6dB 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	1.085	1.23	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.086	1.23	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.086	1.23	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.092	1.24	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.092	1.24	PASS
Band26	1.4MHz	64QAM	26697	6RB#0	1.09	1.24	PASS
Band26	1.4MHz	64QAM	26740	6RB#0	1.091	1.24	PASS
Band26	1.4MHz	64QAM	26783	6RB#0	1.092	1.24	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.699	2.97	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.7	2.97	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.694	2.98	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.689	2.98	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.692	2.99	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.691	2.99	PASS
Band26	3MHz	64QAM	26705	15RB#0	2.69	2.99	PASS
Band26	3MHz	64QAM	26740	15RB#0	2.69	2.97	PASS
Band26	3MHz	64QAM	26775	15RB#0	2.689	2.98	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.473	4.89	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.473	4.89	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.477	4.89	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.47	4.90	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.468	4.91	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.473	4.91	PASS
Band26	5MHz	64QAM	26715	25RB#0	4.48	4.90	PASS
Band26	5MHz	64QAM	26740	25RB#0	4.479	4.91	PASS
Band26	5MHz	64QAM	26765	25RB#0	4.483	4.91	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.934	9.66	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.914	9.62	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.928	9.66	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 13 of 39

Test Graphs

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



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



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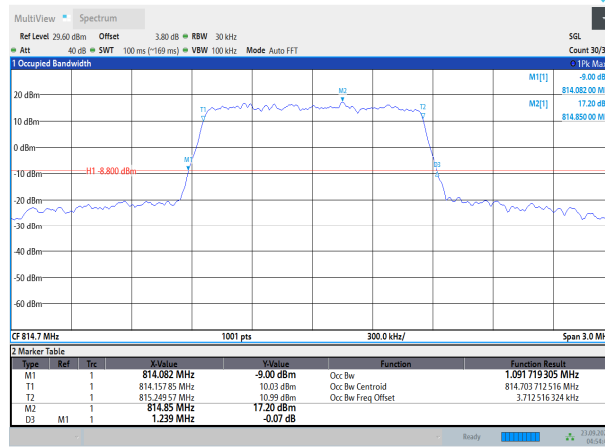
Page: 14 of 39

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



04:56:09 23.09.2022

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



04:54:43 23.09.2022



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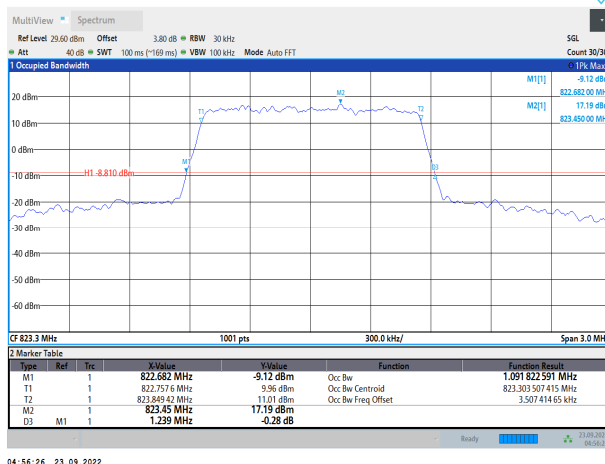
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Page: 15 of 39

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



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



Report No.: SEWA2208000034RG01

Rev.: 01

Page: 16 of 39

Band26-1.4MHz-64QAM-26697-6RB#0



04:55:00 23.09.2022

Band26-1.4MHz-64QAM-26740-6RB#0



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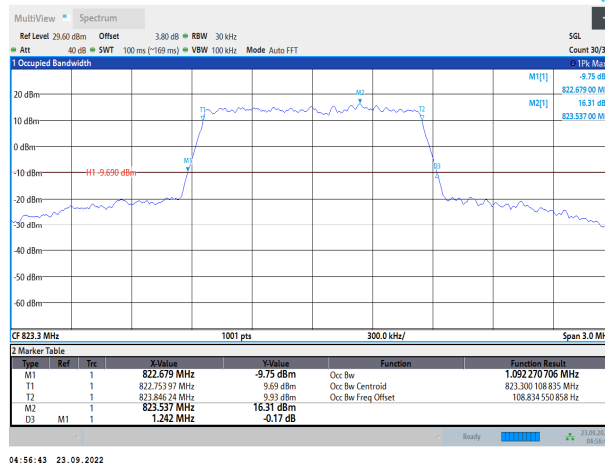
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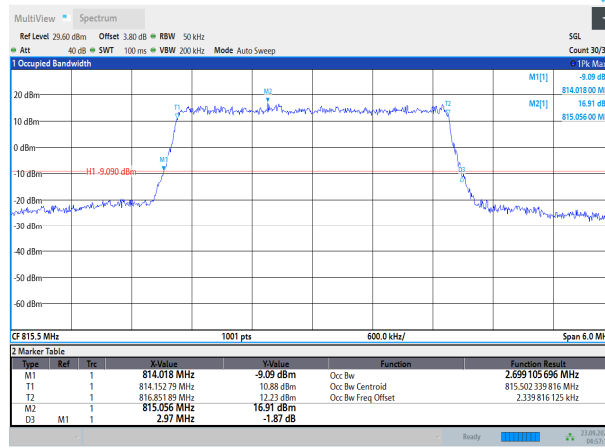
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Band26-1.4MHz-64QAM-26783-6RB#0



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



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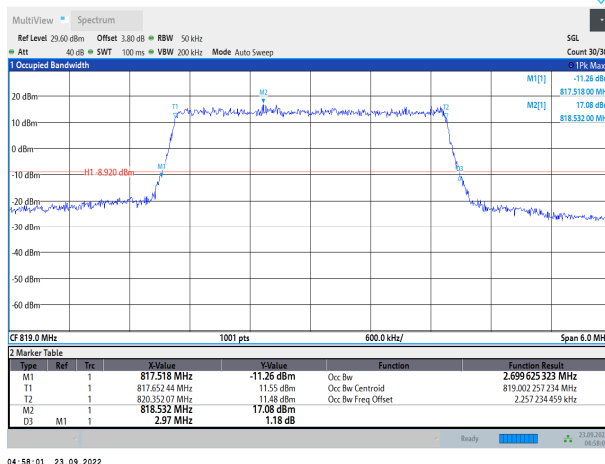
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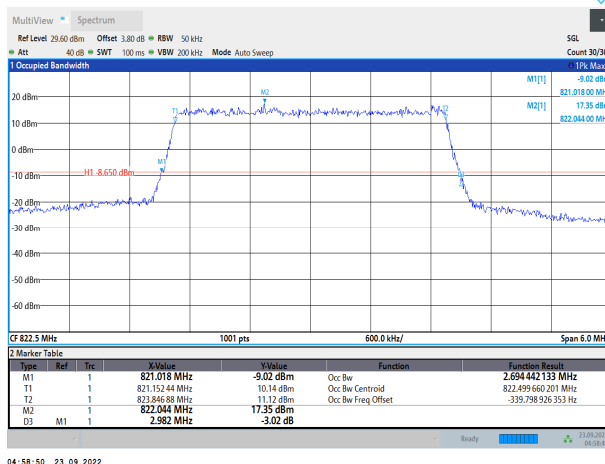
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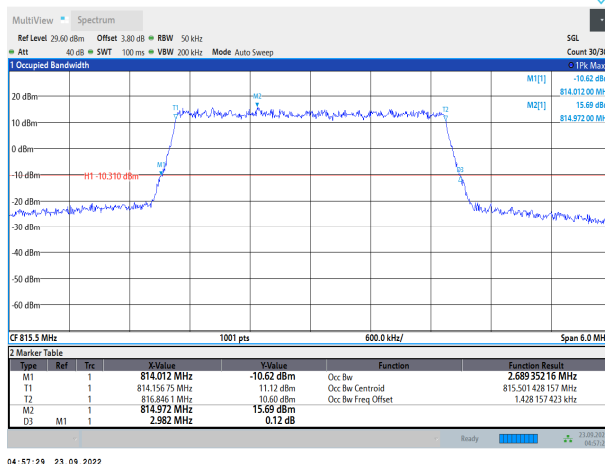
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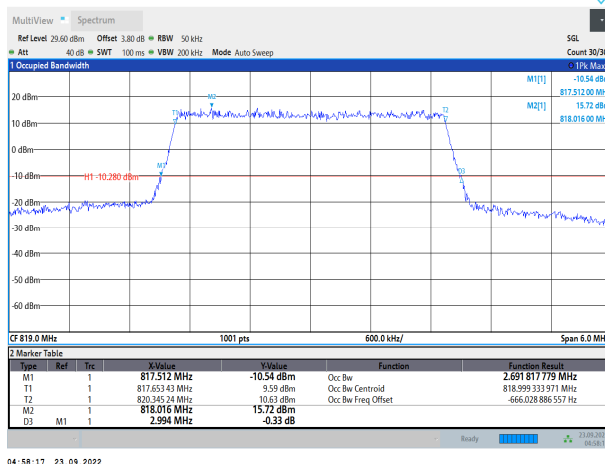
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Band26-3MHz-16QAM-26705-15RB#0



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



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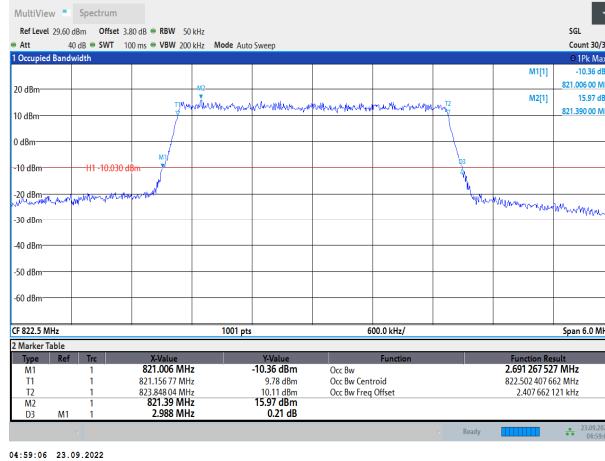
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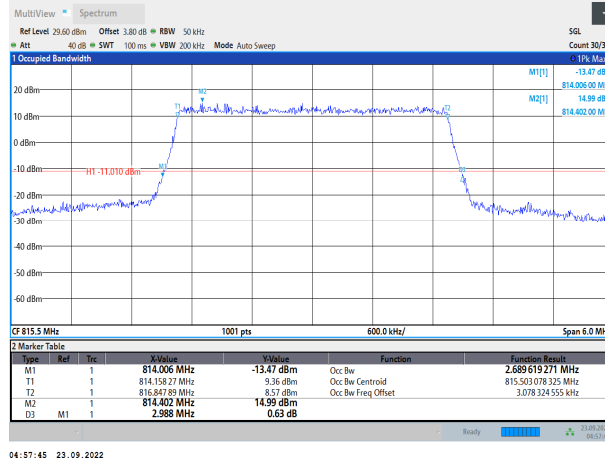
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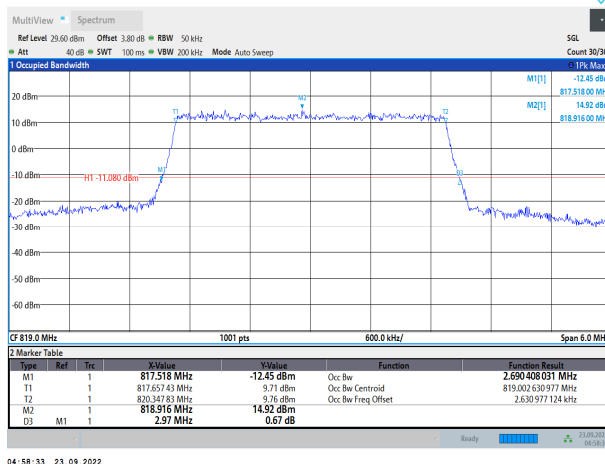
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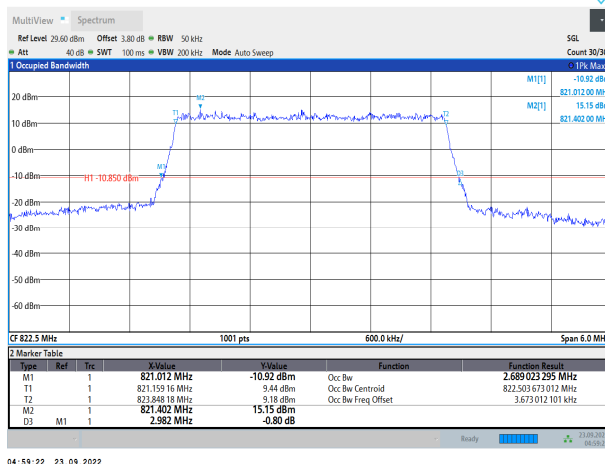
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Page: 21 of 39

Band26-3MHz-64QAM-26740-15RB#0



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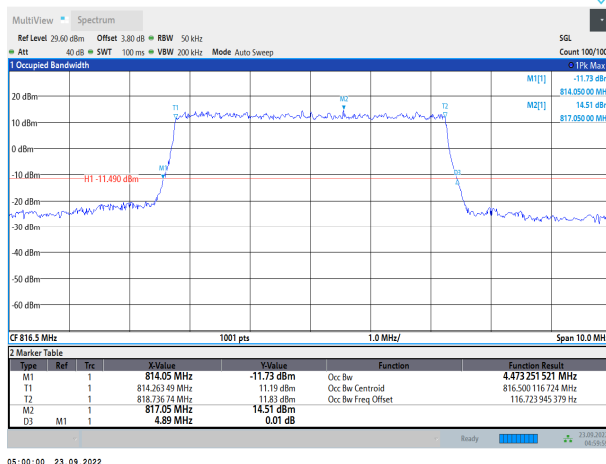
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Report No.: SEWA2208000034RG01

Rev.: 01

Page: 22 of 39

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



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



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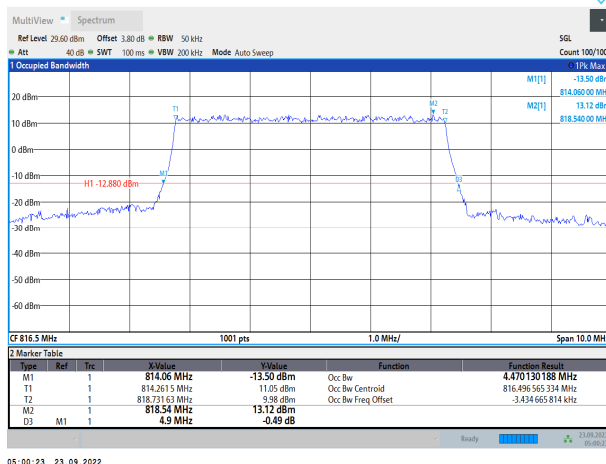
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Page: 23 of 39

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



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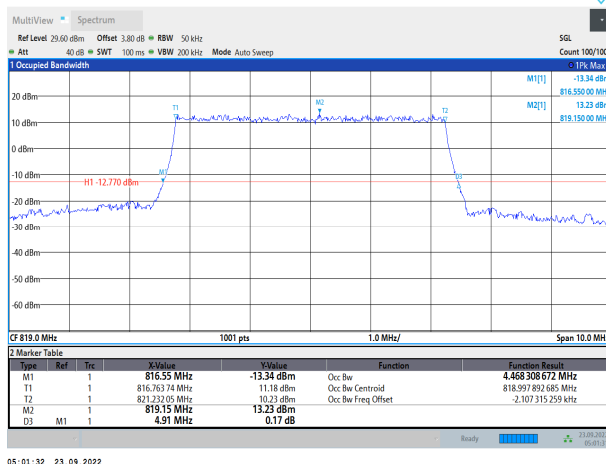
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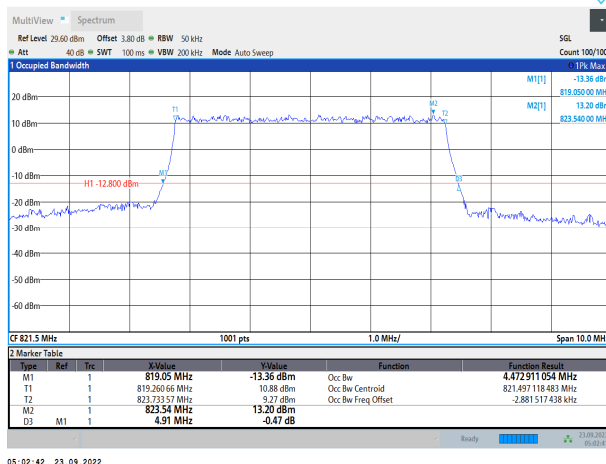
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Page: 24 of 39

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



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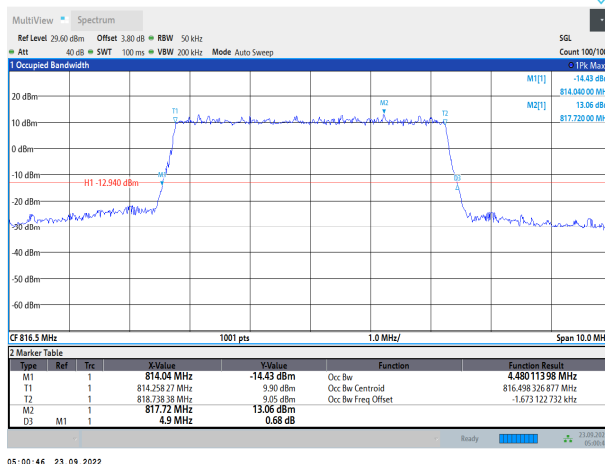


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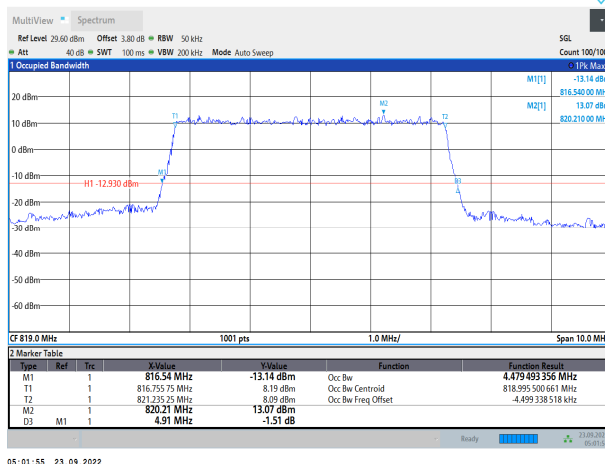
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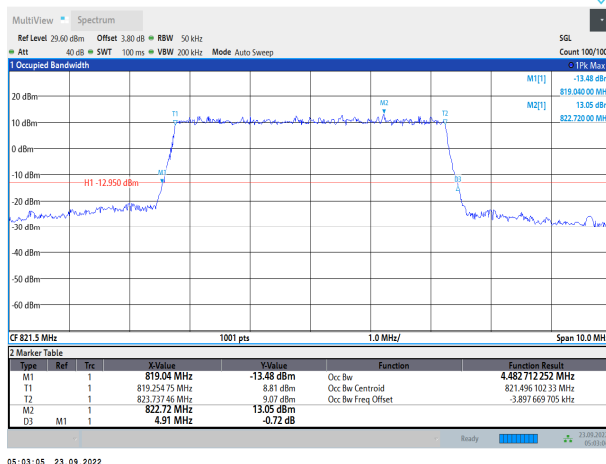
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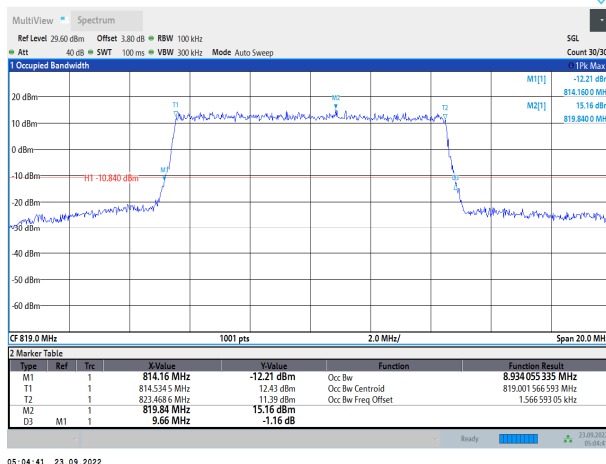
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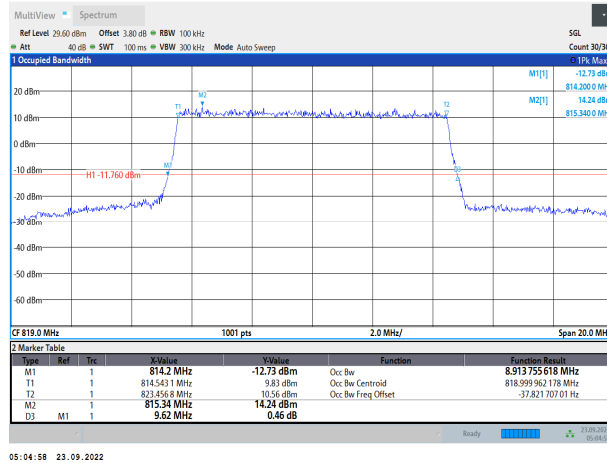


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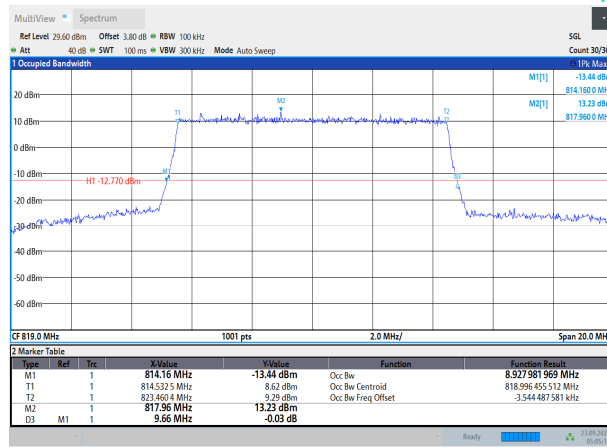
Page: 27 of 39

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



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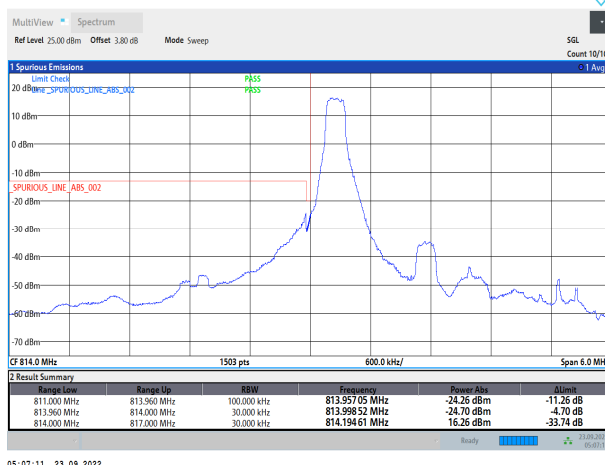
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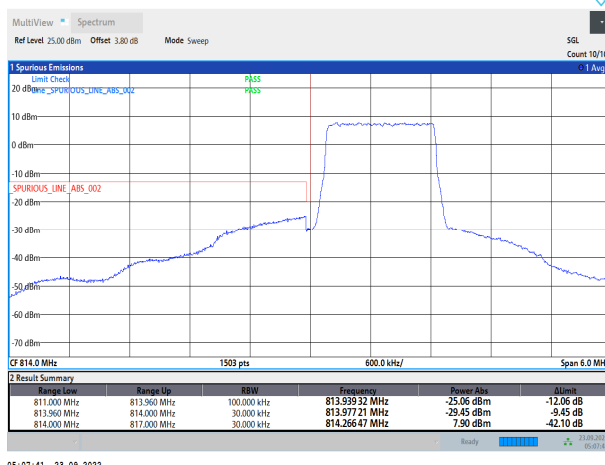
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Test Graphs

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



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



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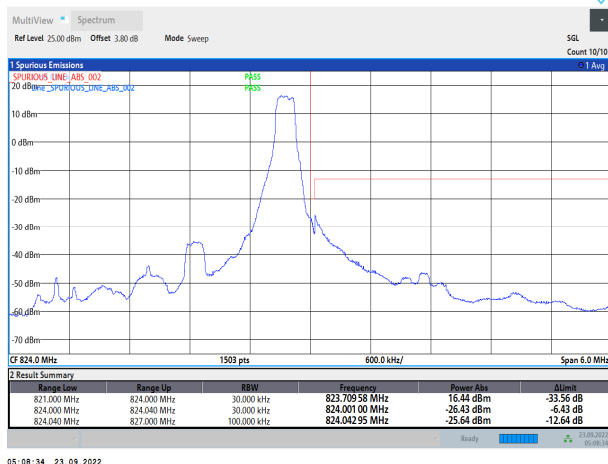
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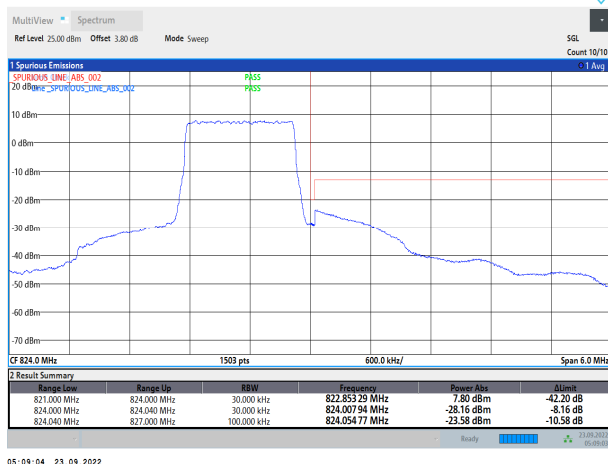
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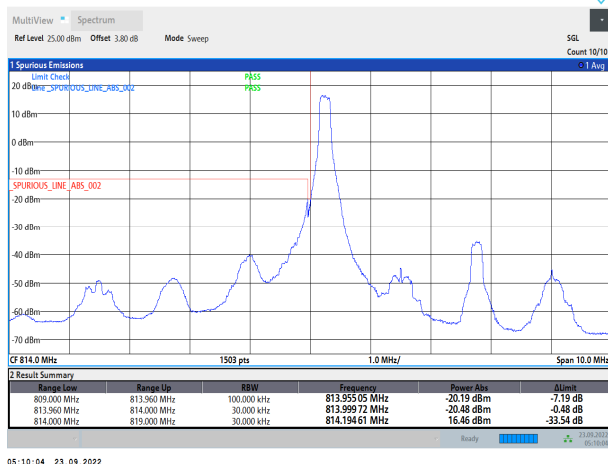
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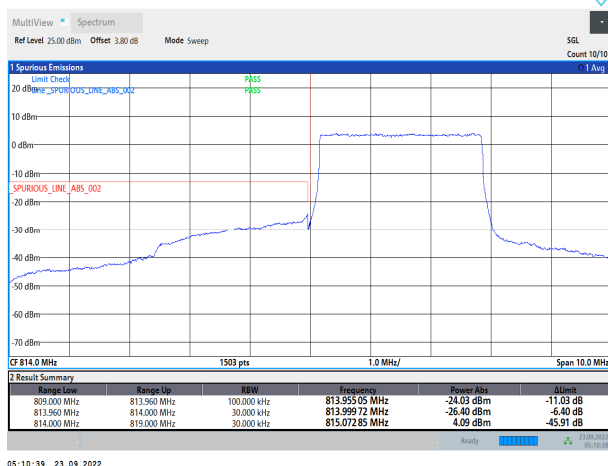
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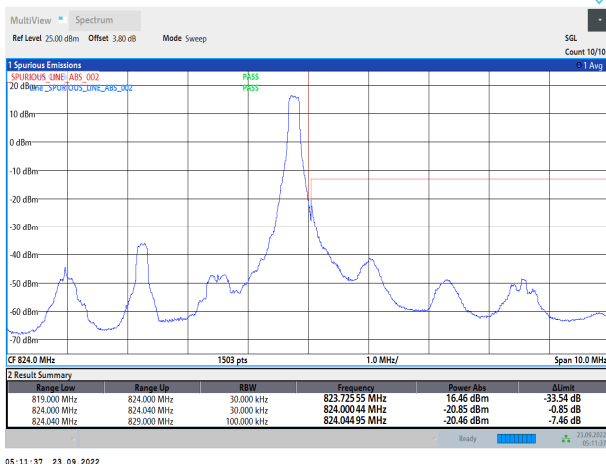
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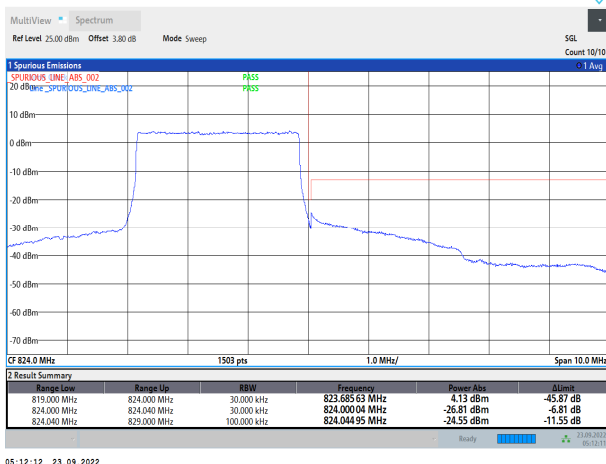
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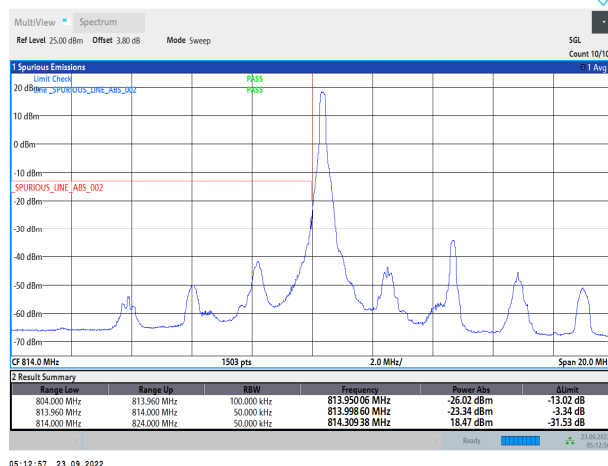
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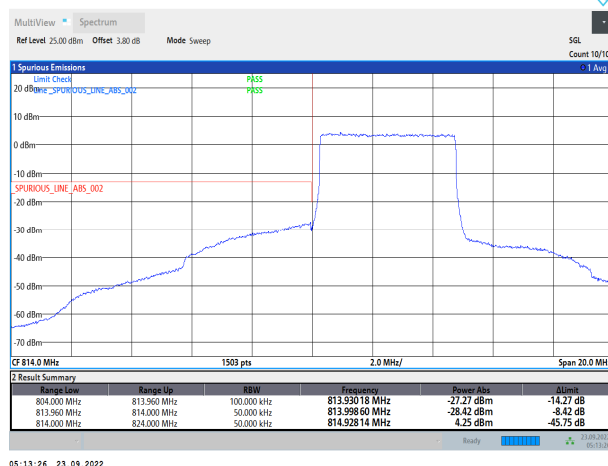
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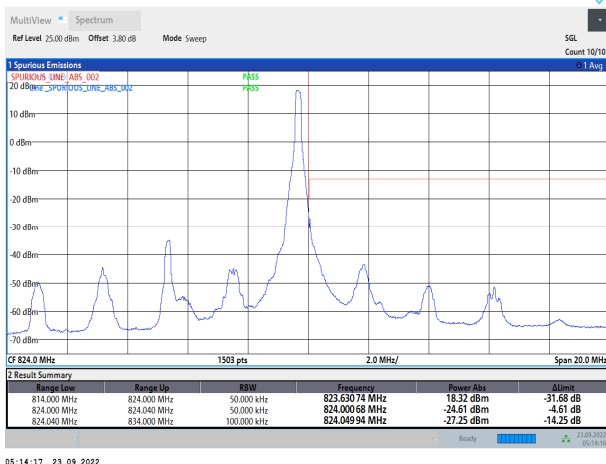
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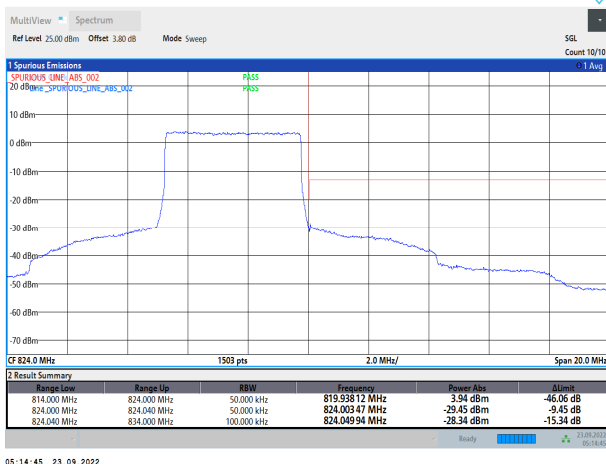
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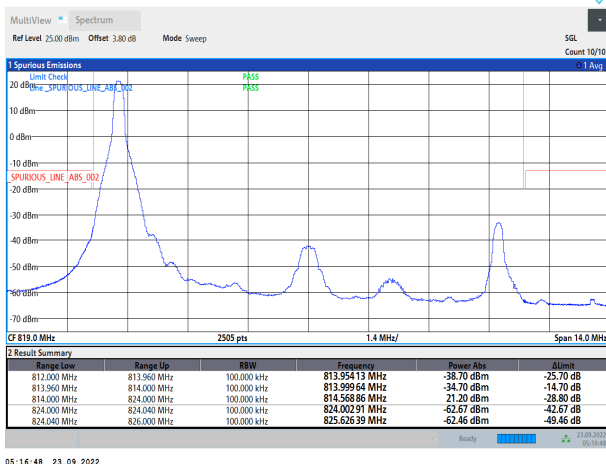
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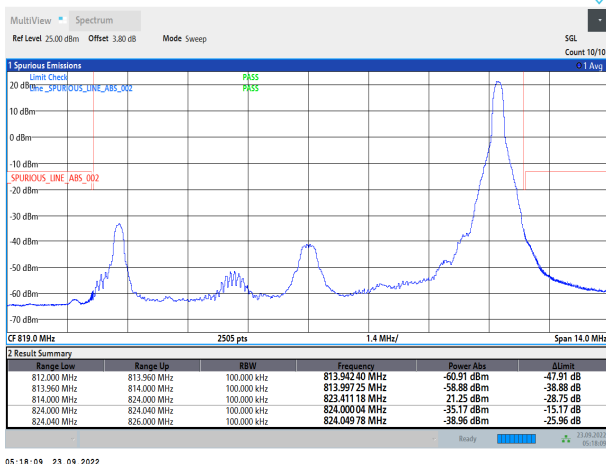
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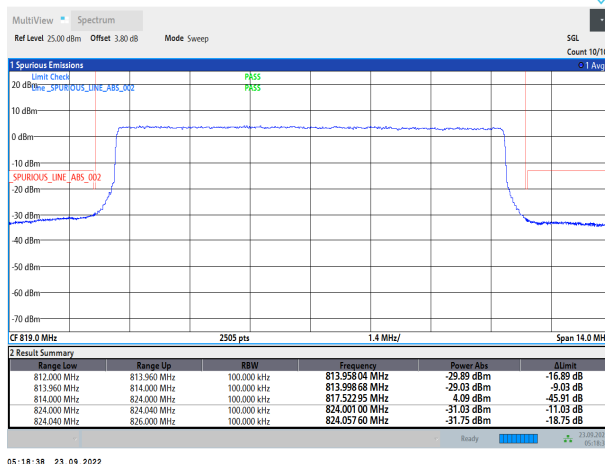
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Report No.: SEWA2208000034RG01

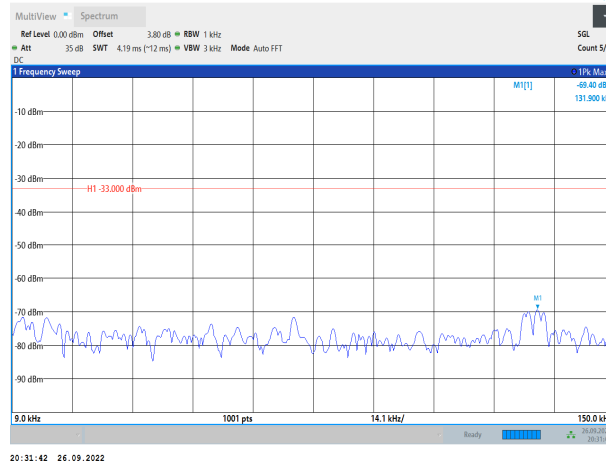
Rev.: 01

Page: 36 of 39

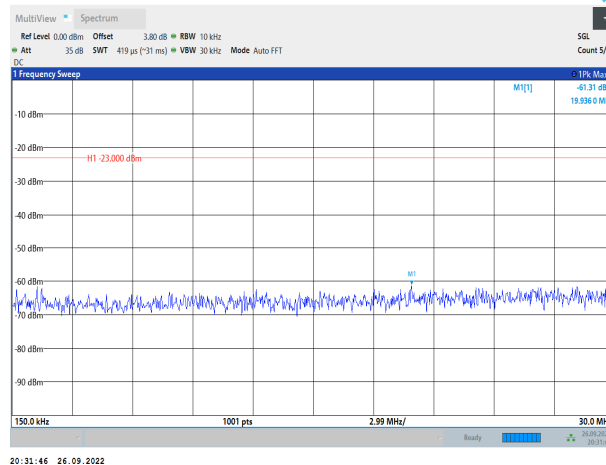
Conducted Spurious Emission

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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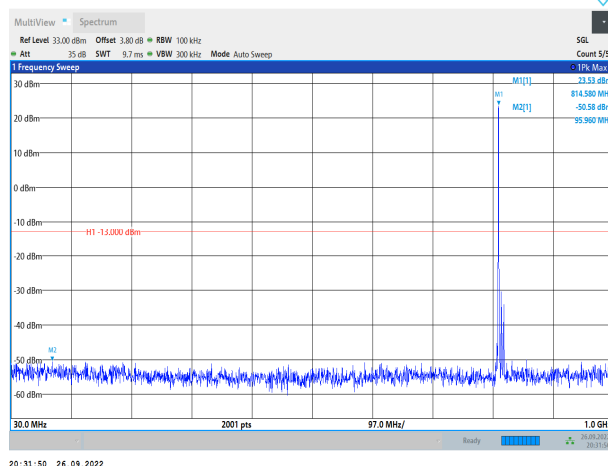
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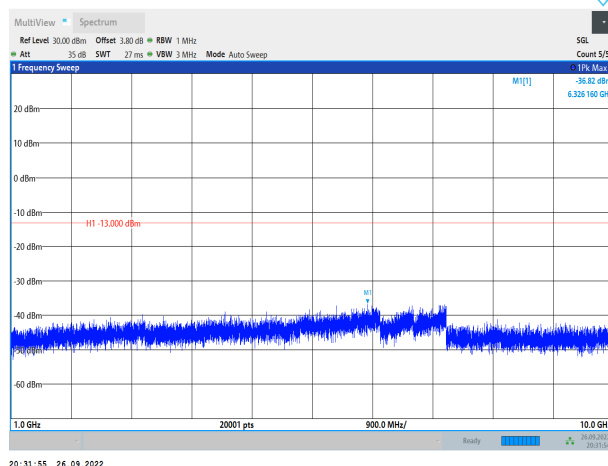
Rev.: 01

Page: 37 of 39

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



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



Report No.: SEWA2208000034RG01

Rev.: 01

Page: 38 of 39

Field Strength of Spurious Radiation

Test Band = LTE Band26_90S_ 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	61.48	-48.24	25.36	-56.66	-13.00	43.66	163	160	Horizontal
2	2443.7700	54.88	-47.37	27.59	-60.17	-13.00	47.17	214	37	Horizontal
3	3258.3600	49.97	-46.52	29.61	-62.20	-13.00	49.20	251	0	Horizontal
4	4072.9500	48.24	-45.98	30.91	-62.09	-13.00	49.09	179	66	Horizontal
5	4887.5400	48.53	-45.59	32.57	-59.75	-13.00	46.75	263	0	Horizontal
6	5702.1300	46.87	-44.57	33.39	-59.57	-13.00	46.57	227	294	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	58.70	-48.24	25.36	-59.44	-13.00	46.44	132	28	Vertical
2	2443.7700	51.48	-47.37	27.59	-63.57	-13.00	50.57	163	358	Vertical
3	3258.3600	50.01	-46.52	29.61	-62.16	-13.00	49.16	142	360	Vertical
4	4072.9500	48.41	-45.98	30.91	-61.92	-13.00	48.92	218	148	Vertical
5	4887.5400	48.53	-45.59	32.57	-59.75	-13.00	46.75	229	55	Vertical
6	5702.1300	48.17	-44.57	33.39	-58.27	-13.00	45.27	267	120	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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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	-1.60	-0.001954	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-6.70	-0.008181	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.30	-0.002808	±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	-6.30	-0.007692	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-5.70	-0.006960	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-10	-0.60	-0.000733	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-3.00	-0.003663	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-8.00	-0.009768	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-4.40	-0.005372	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-6.70	-0.008181	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-2.00	-0.002442	±2.5	PASS

---End of Attachment---



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