

Appendix G: Test Results of Band 26 Lower Band for eMTC operation

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Appendix G.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

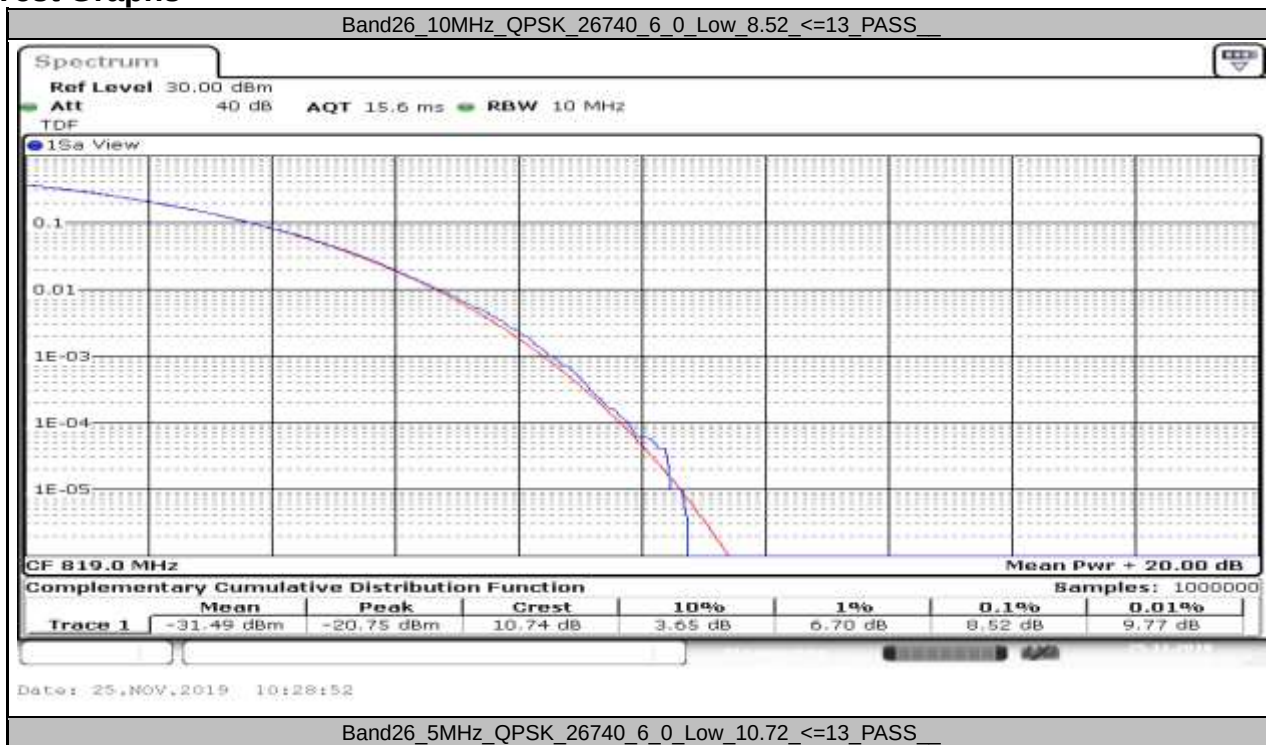
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	Power (watts)	Limit (watts)	Verdict
Band26	1.4MHz	QPSK	26697	1	0	Low	21	0.126	100	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	19.13	0.082	100	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	21.6	0.145	100	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	19.2	0.083	100	PASS
Band26	1.4MHz	QPSK	26783	6	0	Low	19.17	0.083	100	PASS
Band26	1.4MHz	QPSK	26783	1	5	Low	21.38	0.137	100	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	19.13	0.082	100	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	20.2	0.105	100	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	19.2	0.083	100	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	20.26	0.106	100	PASS
Band26	1.4MHz	16QAM	26783	6	0	Low	19.08	0.081	100	PASS
Band26	1.4MHz	16QAM	26783	1	5	Low	20.27	0.106	100	PASS
Band26	3MHz	QPSK	26705	6	0	Low	19	0.079	100	PASS
Band26	3MHz	QPSK	26705	1	0	Low	21.21	0.132	100	PASS
Band26	3MHz	QPSK	26740	1	0	Low	21.29	0.135	100	PASS
Band26	3MHz	QPSK	26740	6	0	Low	19.18	0.083	100	PASS
Band26	3MHz	QPSK	26775	1	5	High	21.22	0.132	100	PASS
Band26	3MHz	QPSK	26775	6	0	High	19.18	0.083	100	PASS
Band26	3MHz	16QAM	26705	1	0	Low	20.3	0.107	100	PASS
Band26	3MHz	16QAM	26705	6	0	Low	18.99	0.079	100	PASS
Band26	3MHz	16QAM	26740	1	0	Low	20.46	0.111	100	PASS
Band26	3MHz	16QAM	26740	6	0	Low	19.19	0.083	100	PASS
Band26	3MHz	16QAM	26775	6	0	High	19.09	0.081	100	PASS
Band26	3MHz	16QAM	26775	1	5	High	20.26	0.106	100	PASS
Band26	5MHz	QPSK	26715	1	0	Low	21.2	0.132	100	PASS
Band26	5MHz	QPSK	26715	6	0	Low	20.02	0.100	100	PASS
Band26	5MHz	QPSK	26740	1	0	Low	21.22	0.132	100	PASS
Band26	5MHz	QPSK	26740	6	0	Low	20.04	0.101	100	PASS
Band26	5MHz	QPSK	26765	1	5	High	21.27	0.134	100	PASS
Band26	5MHz	QPSK	26765	3	3	High	21.05	0.127	100	PASS
Band26	5MHz	16QAM	26715	6	0	Low	20.02	0.100	100	PASS
Band26	5MHz	16QAM	26715	1	0	Low	20.53	0.113	100	PASS
Band26	5MHz	16QAM	26740	1	0	Low	20.54	0.113	100	PASS
Band26	5MHz	16QAM	26740	6	0	Low	20.03	0.101	100	PASS
Band26	5MHz	16QAM	26765	3	3	High	20.72	0.118	100	PASS
Band26	5MHz	16QAM	26765	1	5	High	20.59	0.115	100	PASS
Band26	10MHz	QPSK	26740	1	0	Low	21.26	0.134	100	PASS
Band26	10MHz	QPSK	26740	5	0	Low	21.12	0.129	100	PASS
Band26	10MHz	QPSK	26740	1	5	High	21.23	0.133	100	PASS
Band26	10MHz	QPSK	26740	5	1	High	21.3	0.135	100	PASS
Band26	10MHz	16QAM	26740	5	0	Low	20.95	0.124	100	PASS
Band26	10MHz	16QAM	26740	1	5	High	20.57	0.114	100	PASS
Band26	10MHz	16QAM	26740	5	1	High	21.02	0.126	100	PASS
Band26	10MHz	16QAM	26740	1	0	Low	20.58	0.114	100	PASS

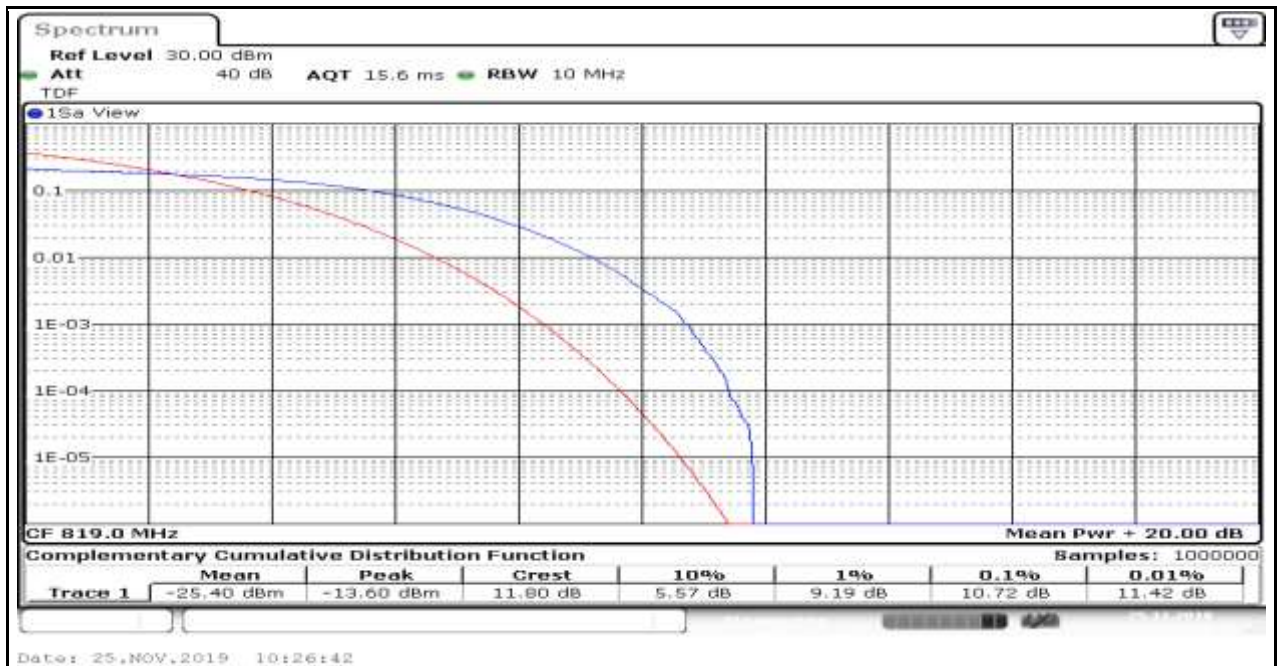
Appendix G.2: Peak-to-Average Ratio (CCDF) for M1

Test Result

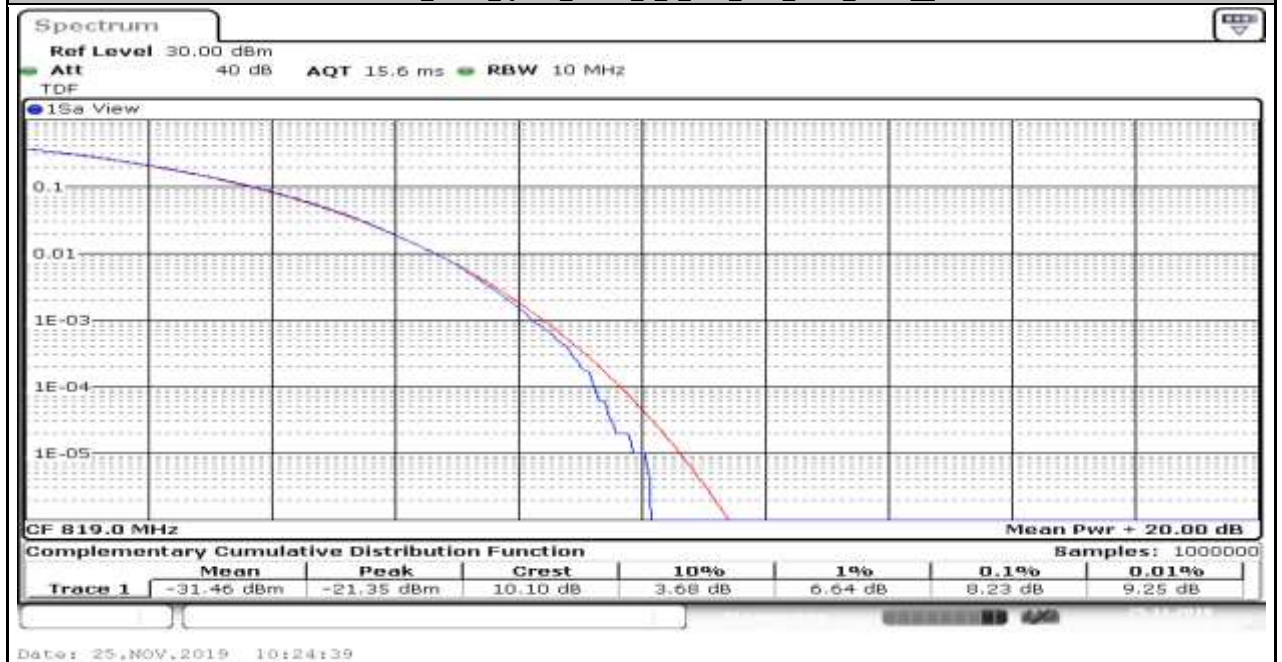
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	6	0	Low	8.52	<=13	PASS
Band26	5MHz	QPSK	26740	6	0	Low	10.72	<=13	PASS
Band26	3MHz	QPSK	26740	6	0	Low	8.23	<=13	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	5.97	<=13	PASS
Band26	10MHz	16QAM	26740	6	0	Low	9.22	<=13	PASS
Band26	5MHz	16QAM	26740	6	0	Low	9.36	<=13	PASS
Band26	3MHz	16QAM	26740	6	0	Low	9.30	<=13	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	10.67	<=13	PASS

Test Graphs

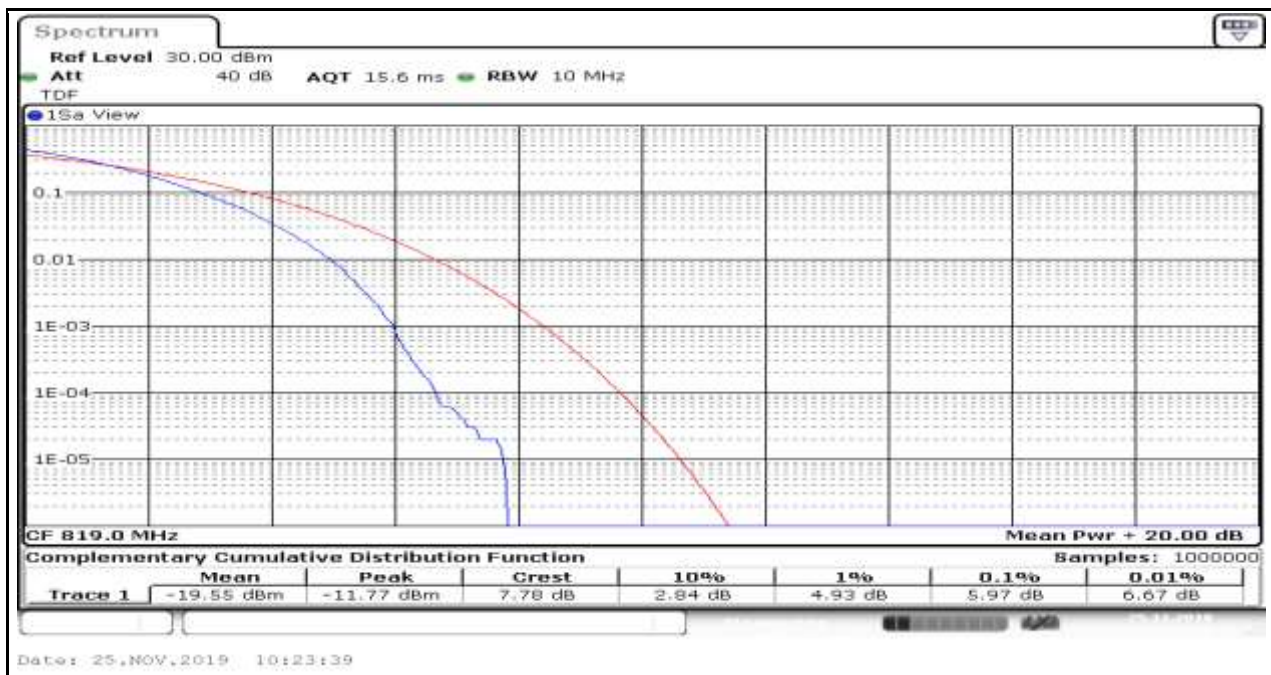




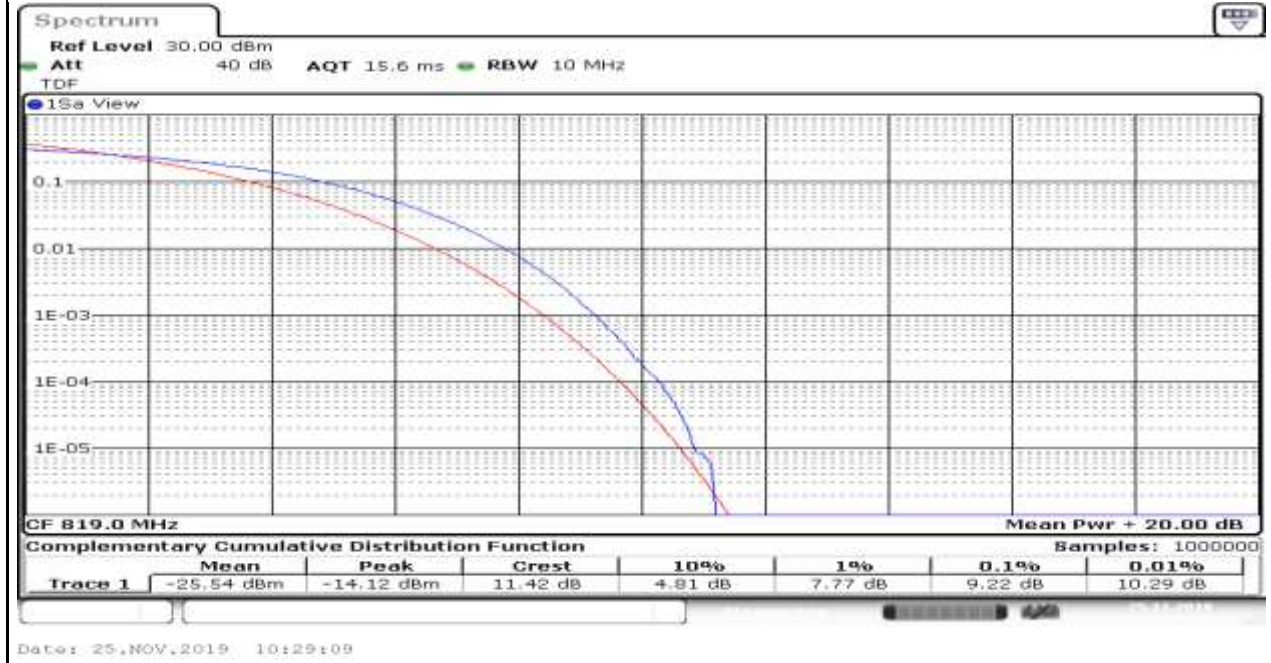
Band26_3MHz_QPSK_26740_6_0_Low_8.23_<=13_PASS_



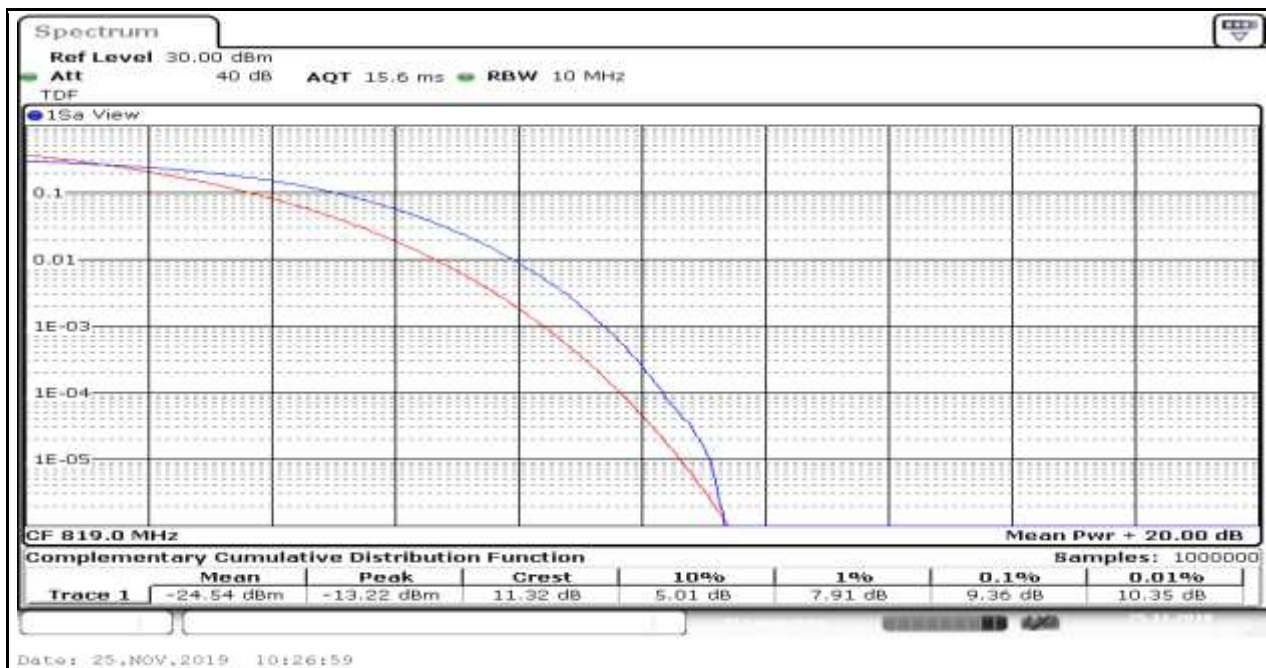
Band26_1.4MHz_QPSK_26740_6_0_Low_5.97_<=13_PASS_



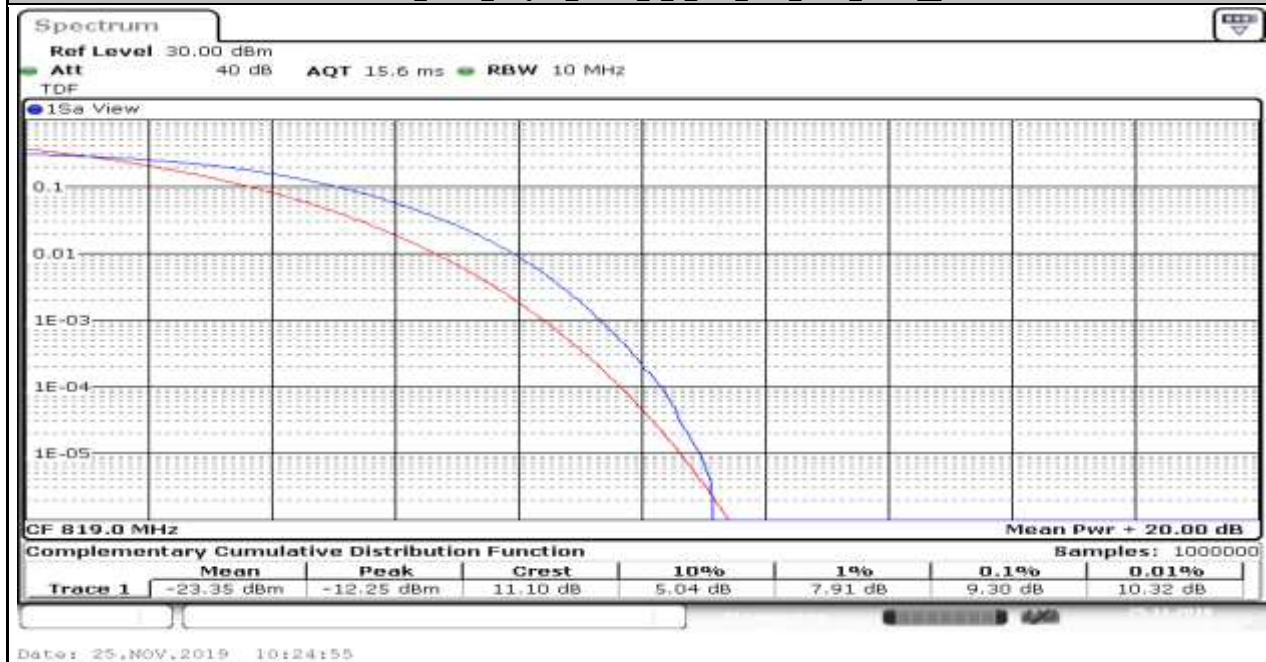
Band26_10MHz_16QAM_26740_6_0_Low_9.22_<=13_PASS



Band26_5MHz_16QAM_26740_6_0_Low_9.36_<=13_PASS

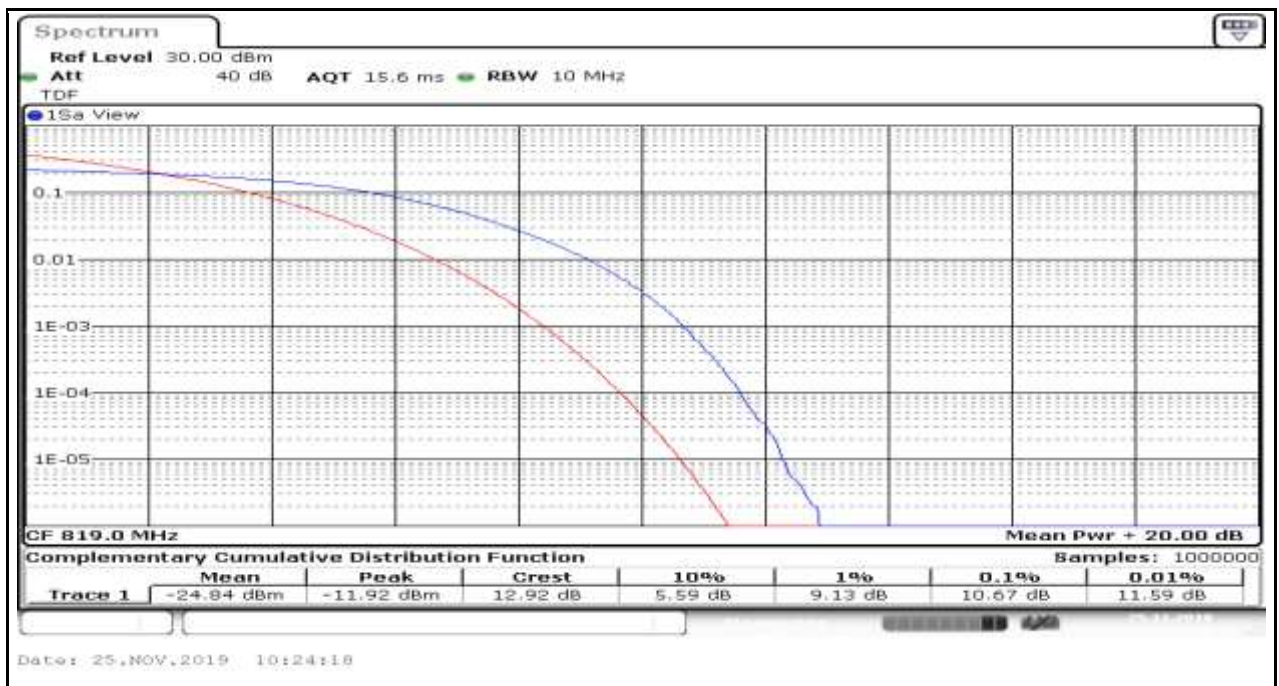


Band26_3MHz_16QAM_26740_6_0_Low_9.30_<=13_PASS_



Band26_1.4MHz_16QAM_26740_6_0_Low_10.67_<=13_PASS_

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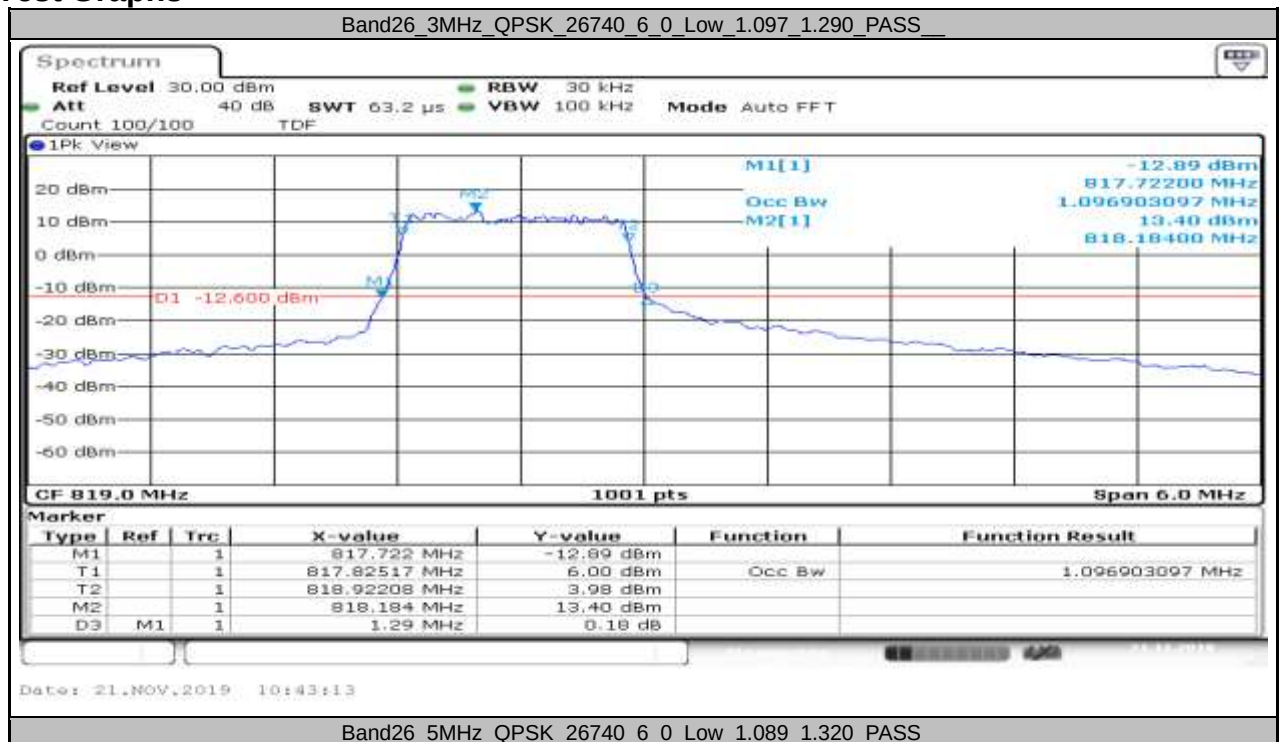


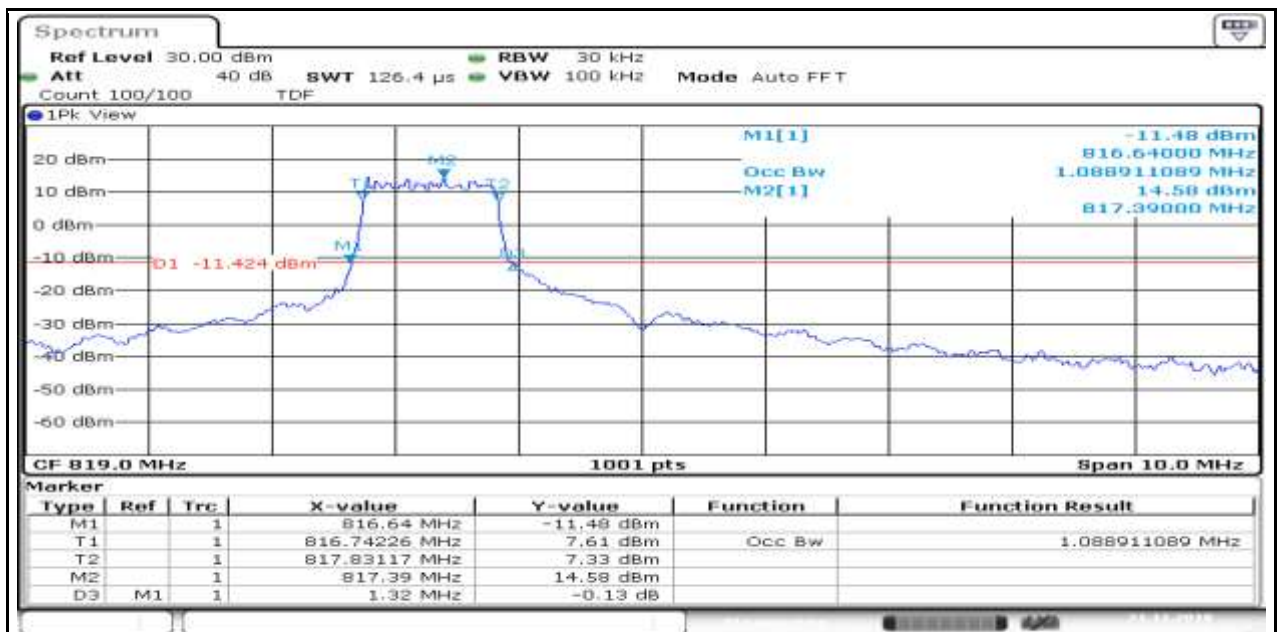
Appendix G.3: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

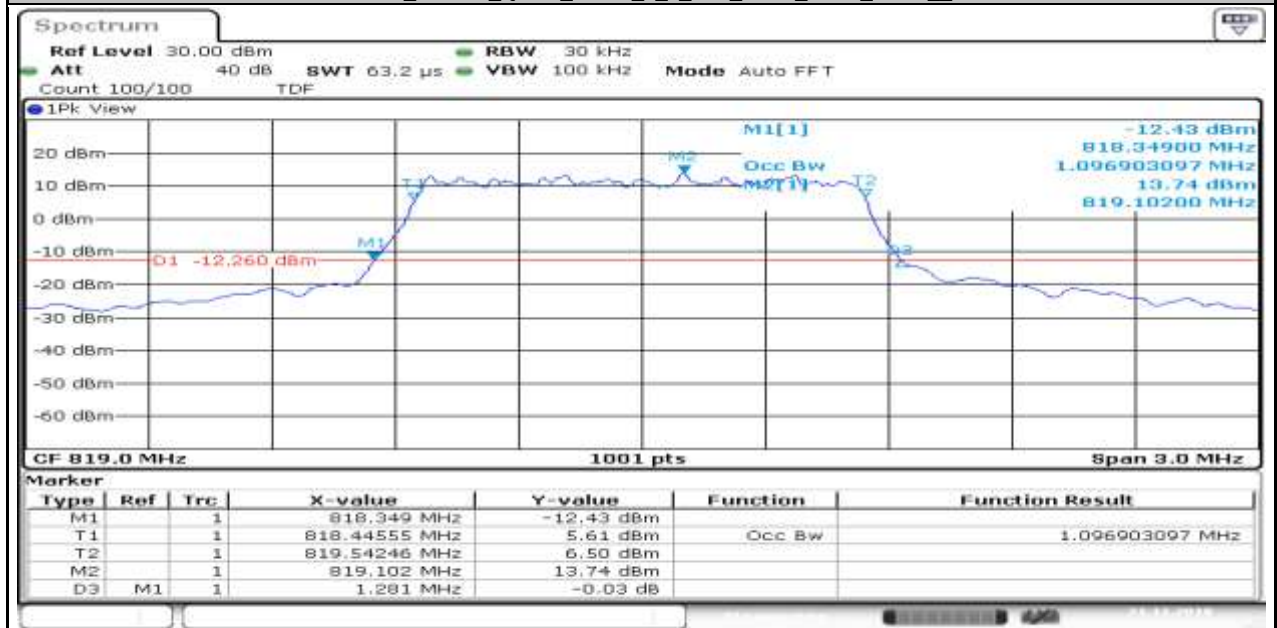
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	3MHz	QPSK	26740	6	0	Low	1.097	1.290	PASS
Band26	5MHz	QPSK	26740	6	0	Low	1.089	1.320	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	1.097	1.281	PASS
Band26	10MHz	QPSK	26740	6	0	Low	1.099	1.320	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	1.1	1.323	PASS
Band26	3MHz	16QAM	26740	6	0	Low	1.103	1.332	PASS
Band26	5MHz	16QAM	26740	6	0	Low	1.099	1.330	PASS
Band26	10MHz	16QAM	26740	6	0	Low	1.099	1.320	PASS

Test Graphs

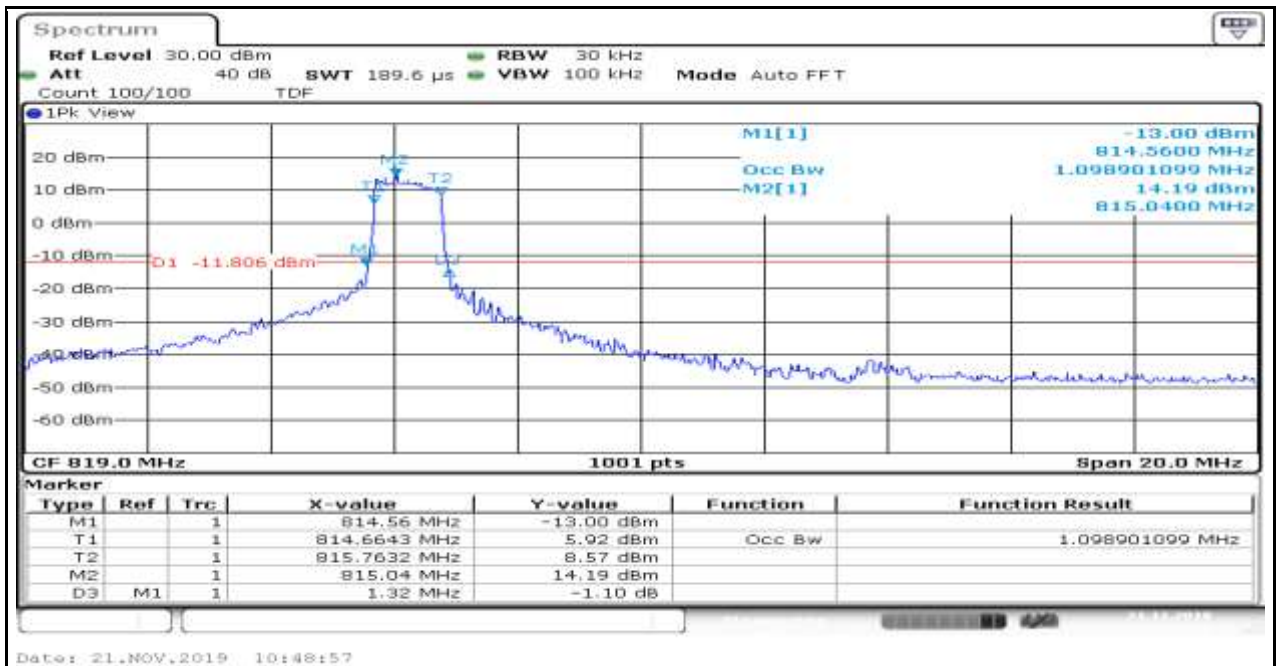




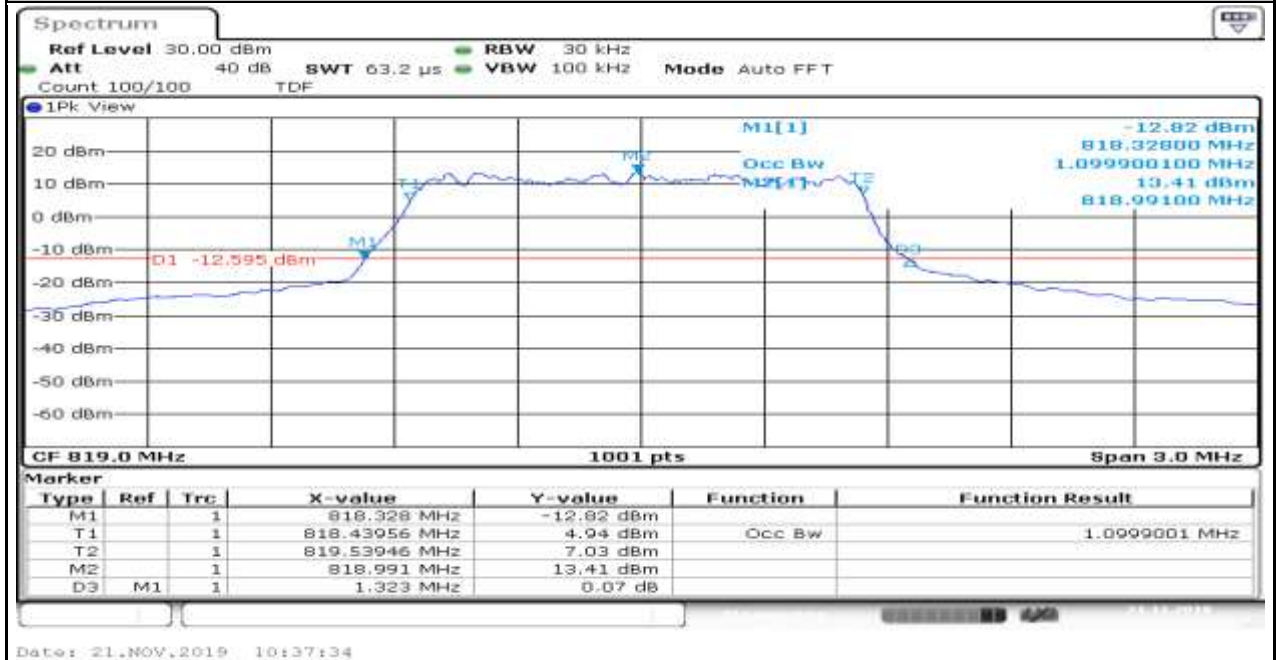
Band26_1.4MHz_QPSK_26740_6_0_Low_1.097_1.281_PASS



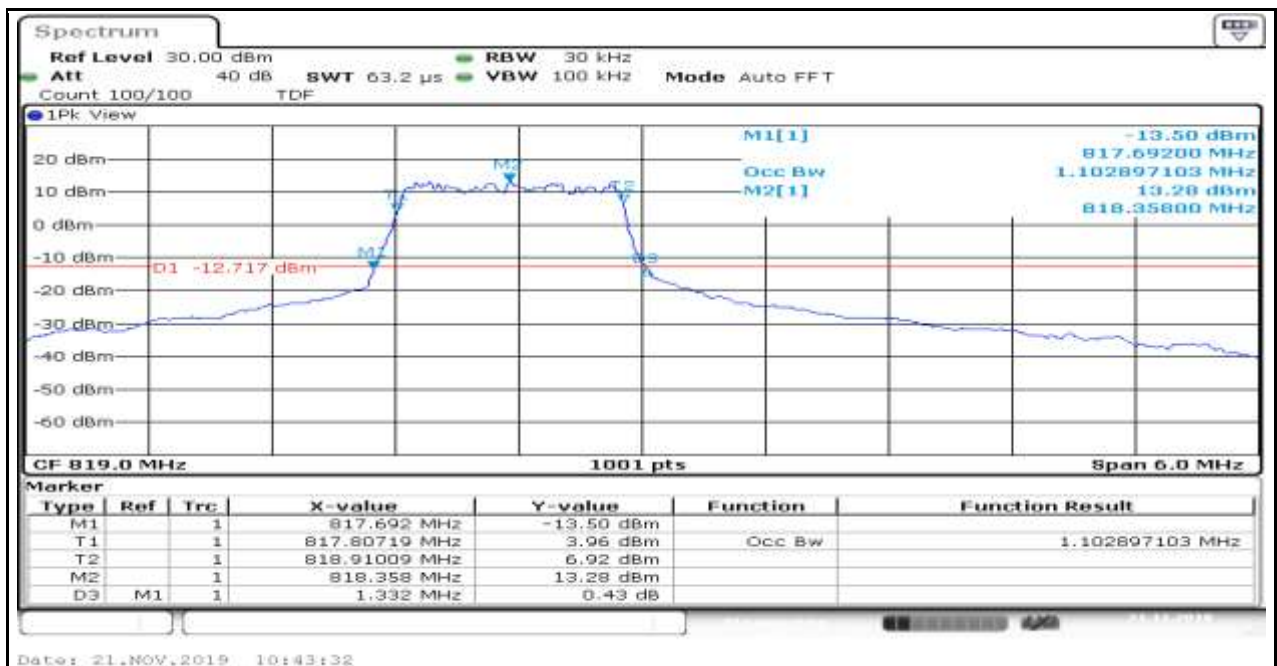
Band26_10MHz_QPSK_26740_6_0_Low_1.099_1.320_PASS



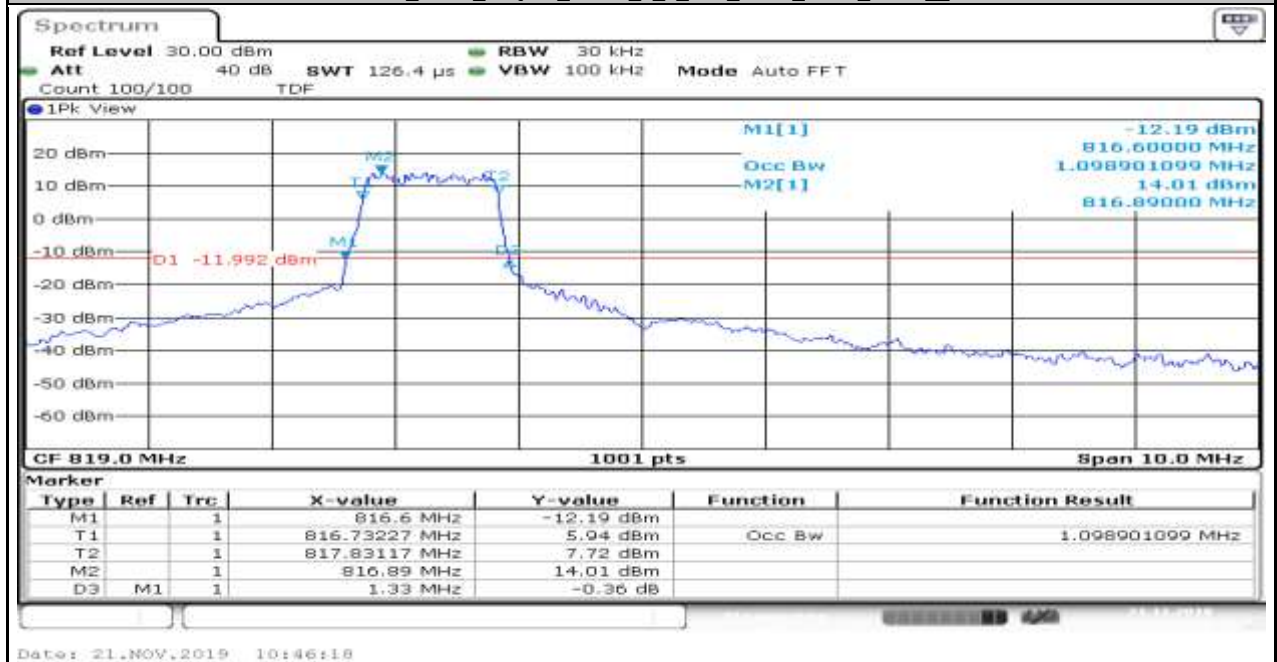
Band26_1.4MHz_16QAM_26740_6_0_Low_1.1_1.323_PASS



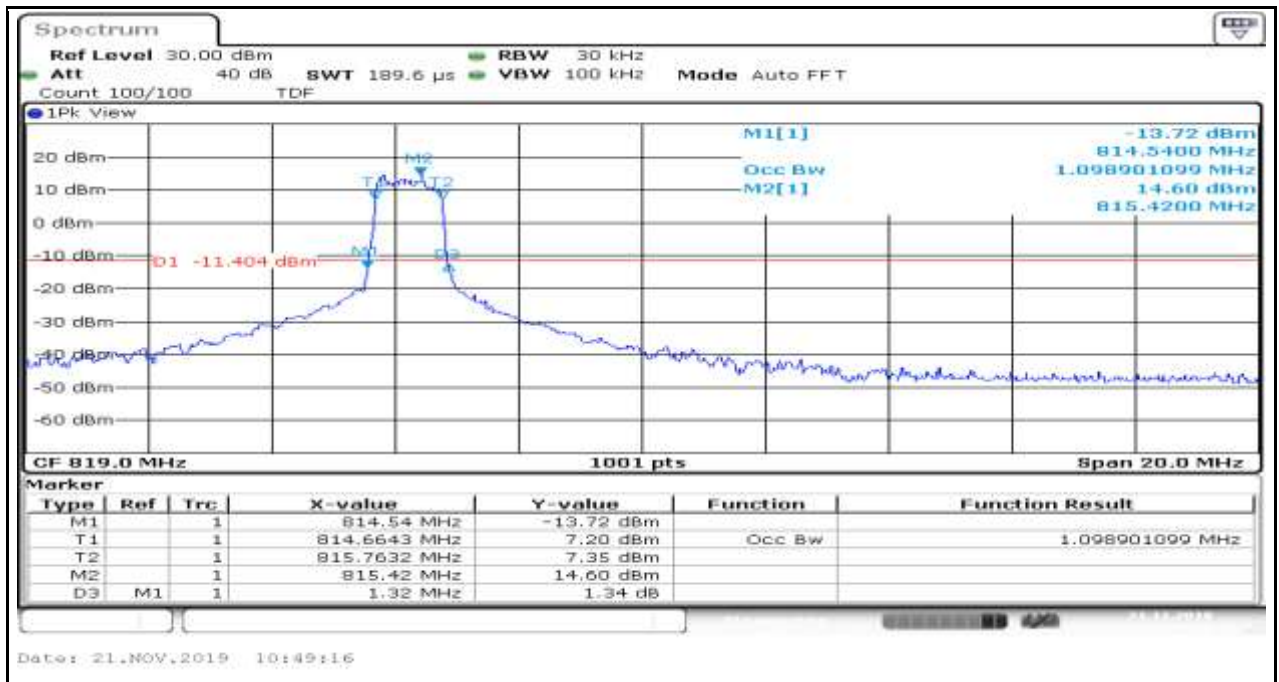
Band26_3MHz_16QAM_26740_6_0_Low_1.103_1.332_PASS



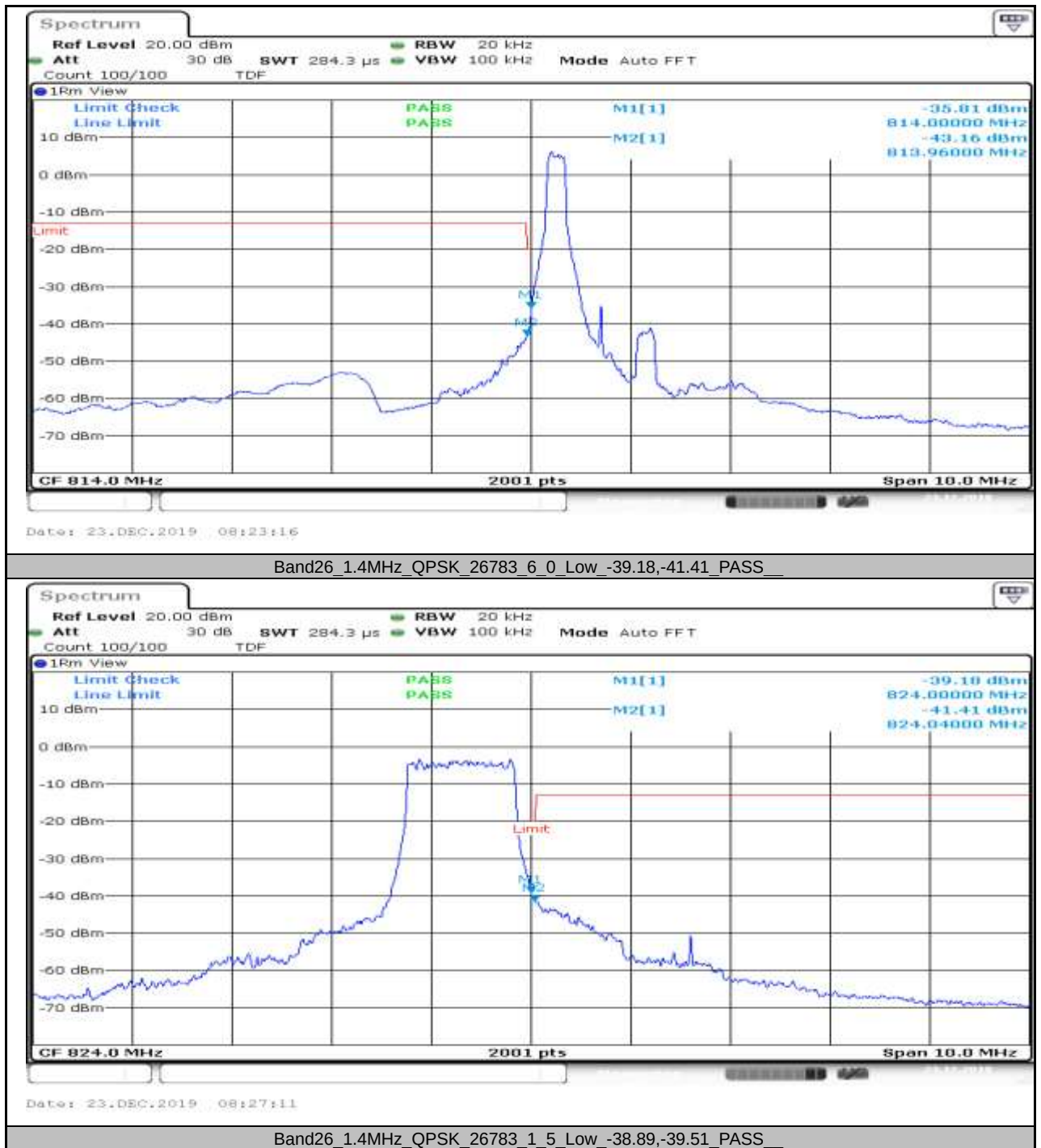
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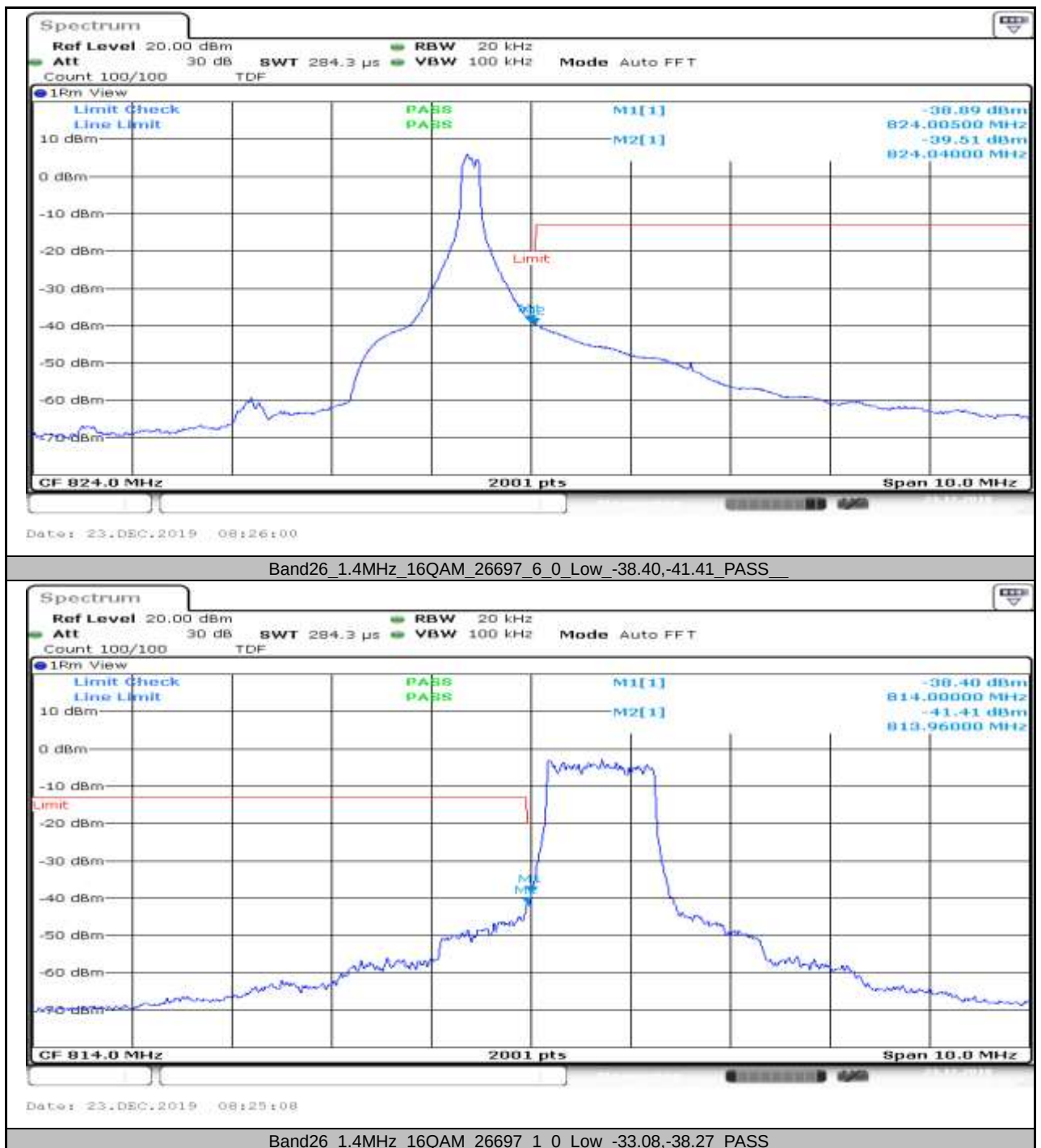


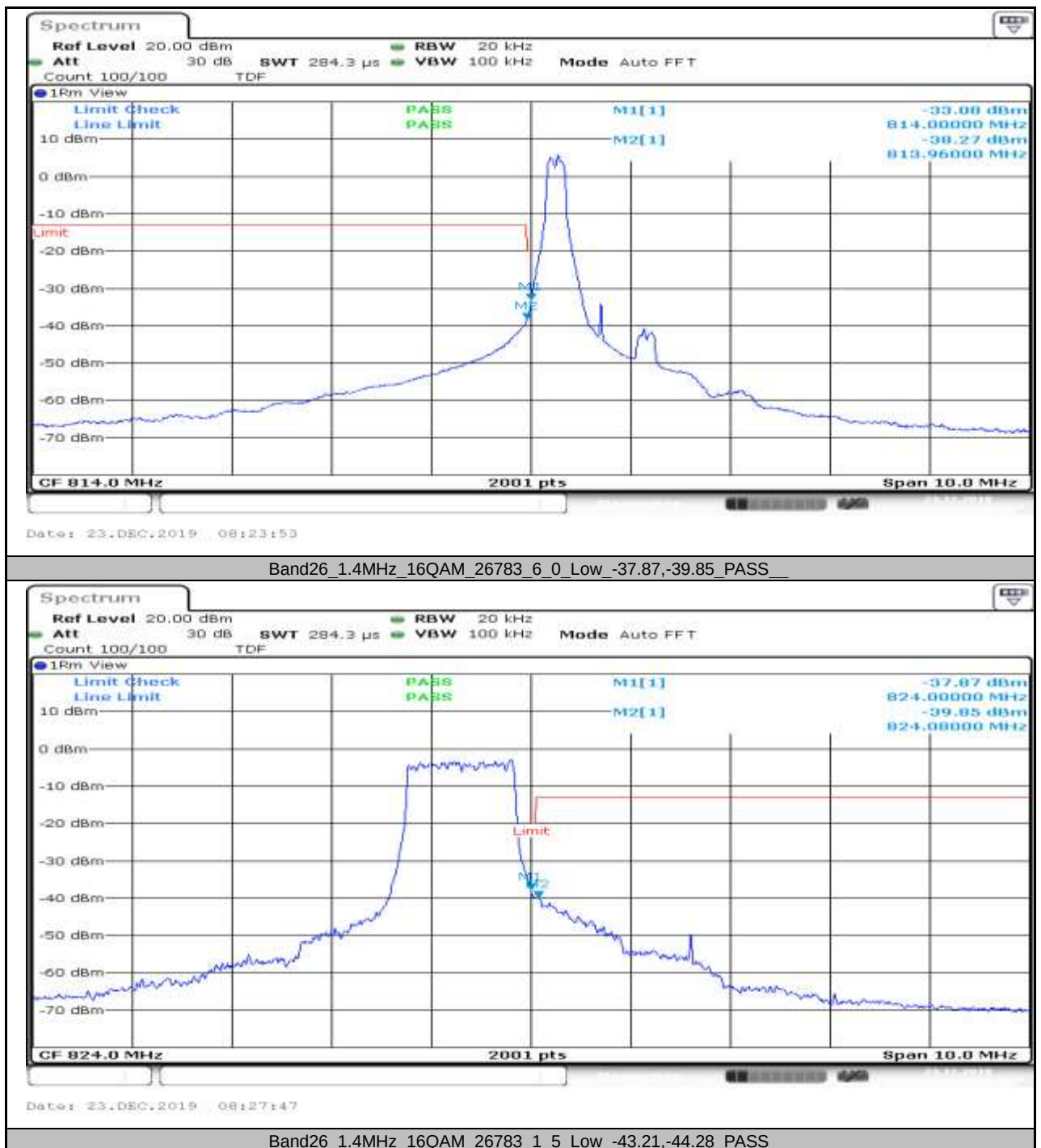
Band26_10MHz_16QAM_26740_6_0_Low_1.099_1.320_PASS_













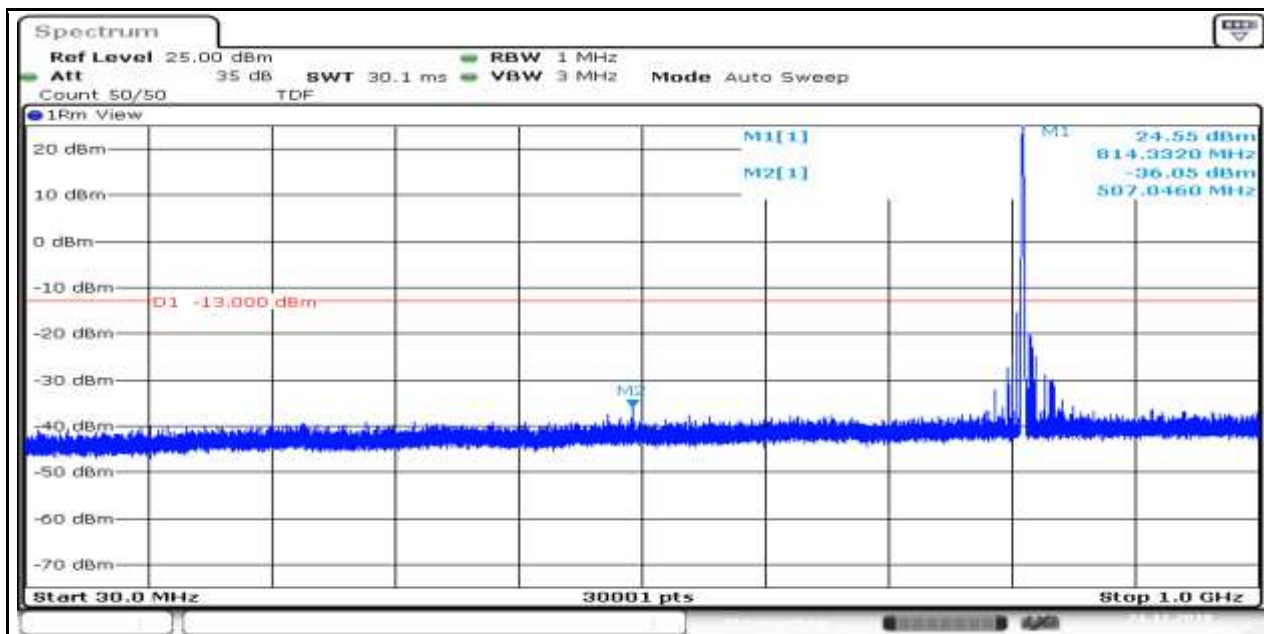
Appendix G.5: Conducted Spurious Emission for M1

Test Result

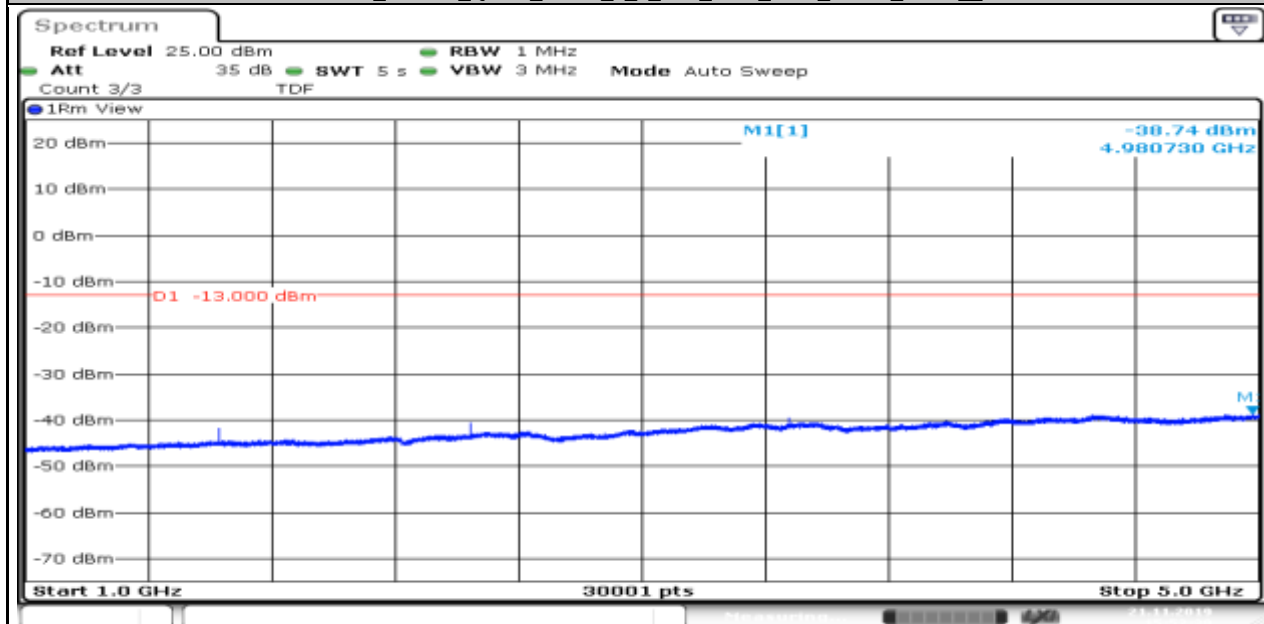
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1	0	Low	30	1000	-36.05	PASS
Band26	1.4MHz	QPSK	26697	1	0	Low	1000	5000	-38.74	PASS
Band26	1.4MHz	QPSK	26697	1	0	Low	5000	12000	-48.09	PASS
Band26	1.4MHz	QPSK	26697	1	0	Low	12000	26500	-42.06	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	12000	26500	-41.87	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	5000	12000	-48.18	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	1000	5000	-38.83	PASS
Band26	1.4MHz	QPSK	26697	6	0	Low	30	1000	-36.92	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	30	1000	-35.97	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	5000	12000	-48.16	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	12000	26500	-42.12	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	12000	26500	-42.03	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	5000	12000	-47.89	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	1000	5000	-38.71	PASS
Band26	1.4MHz	QPSK	26740	6	0	Low	30	1000	-36.43	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	1000	5000	-38.78	PASS
Band26	1.4MHz	QPSK	26783	6	0	Low	12000	26500	-42.12	PASS
Band26	1.4MHz	QPSK	26783	6	0	Low	30	1000	-36.56	PASS
Band26	1.4MHz	QPSK	26783	1	5	Low	1000	5000	-38.73	PASS
Band26	1.4MHz	QPSK	26783	1	5	Low	5000	12000	-47.98	PASS
Band26	1.4MHz	QPSK	26783	1	5	Low	12000	26500	-42.06	PASS
Band26	1.4MHz	QPSK	26783	1	5	Low	30	1000	-36.26	PASS
Band26	1.4MHz	QPSK	26783	6	0	Low	1000	5000	-38.75	PASS
Band26	1.4MHz	QPSK	26783	6	0	Low	5000	12000	-48.01	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	12000	26500	-42.09	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	5000	12000	-47.98	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	1000	5000	-38.8	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	30	1000	-37.39	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	5000	12000	-48.12	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	1000	5000	-38.84	PASS
Band26	1.4MHz	16QAM	26697	6	0	Low	30	1000	-36.89	PASS
Band26	1.4MHz	16QAM	26697	1	0	Low	12000	26500	-42.14	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	1000	5000	-38.77	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	30	1000	-35.61	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	12000	26500	-41.96	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	30	1000	-36.61	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	1000	5000	-38.82	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	12000	26500	-41.91	PASS
Band26	1.4MHz	16QAM	26740	6	0	Low	5000	12000	-48.23	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	5000	12000	-47.95	PASS
Band26	1.4MHz	16QAM	26783	6	0	Low	30	1000	-36.27	PASS
Band26	1.4MHz	16QAM	26783	6	0	Low	12000	26500	-42.04	PASS
Band26	1.4MHz	16QAM	26783	6	0	Low	1000	5000	-38.68	PASS
Band26	1.4MHz	16QAM	26783	1	5	Low	12000	26500	-42.06	PASS
Band26	1.4MHz	16QAM	26783	1	5	Low	5000	12000	-48.14	PASS
Band26	1.4MHz	16QAM	26783	1	5	Low	1000	5000	-38.71	PASS
Band26	1.4MHz	16QAM	26783	1	5	Low	30	1000	-36.21	PASS
Band26	1.4MHz	16QAM	26783	6	0	Low	5000	12000	-47.97	PASS

Test Graphs

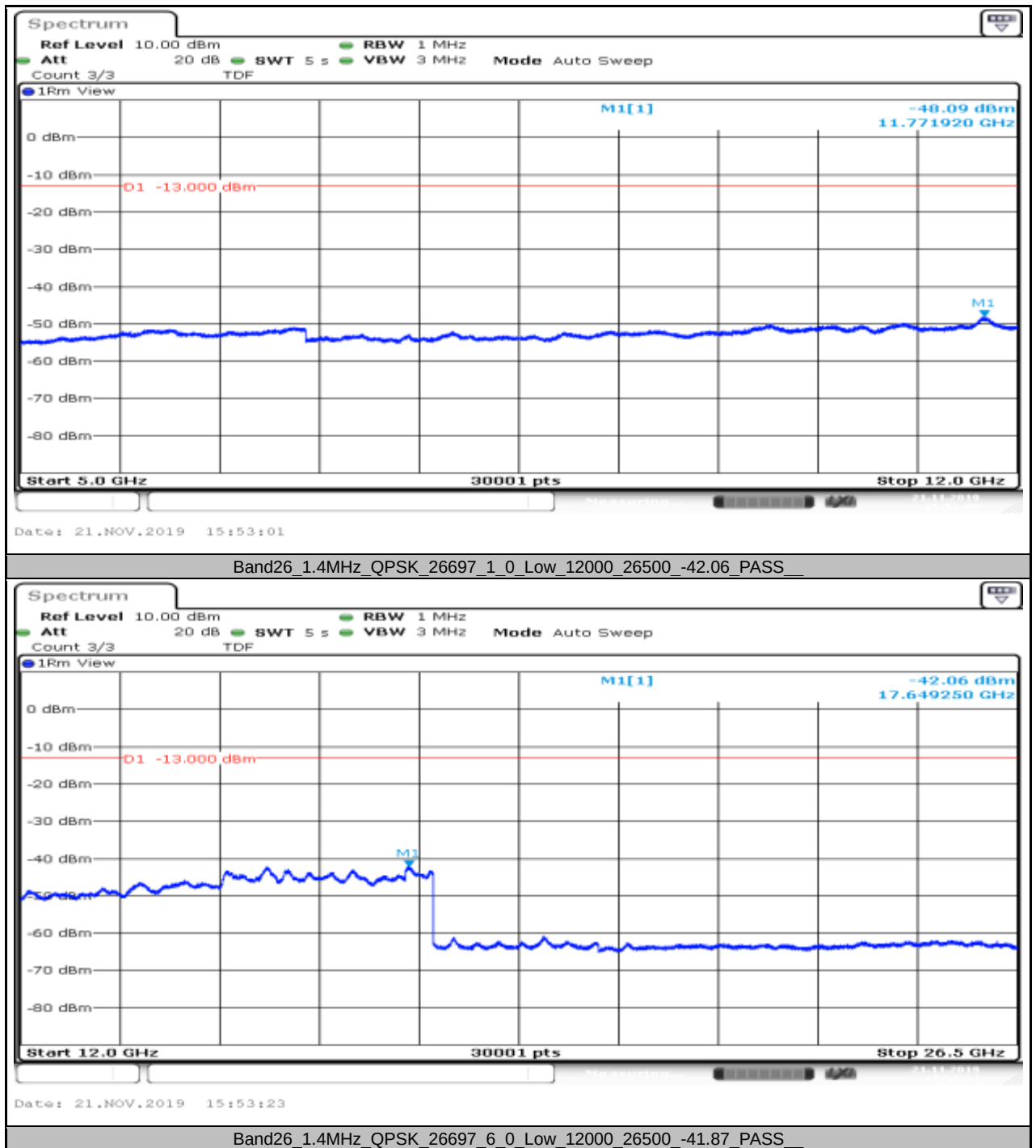
Band26_1.4MHz_QPSK_26697_1_0_Low_30_1000_-36.05_PASS



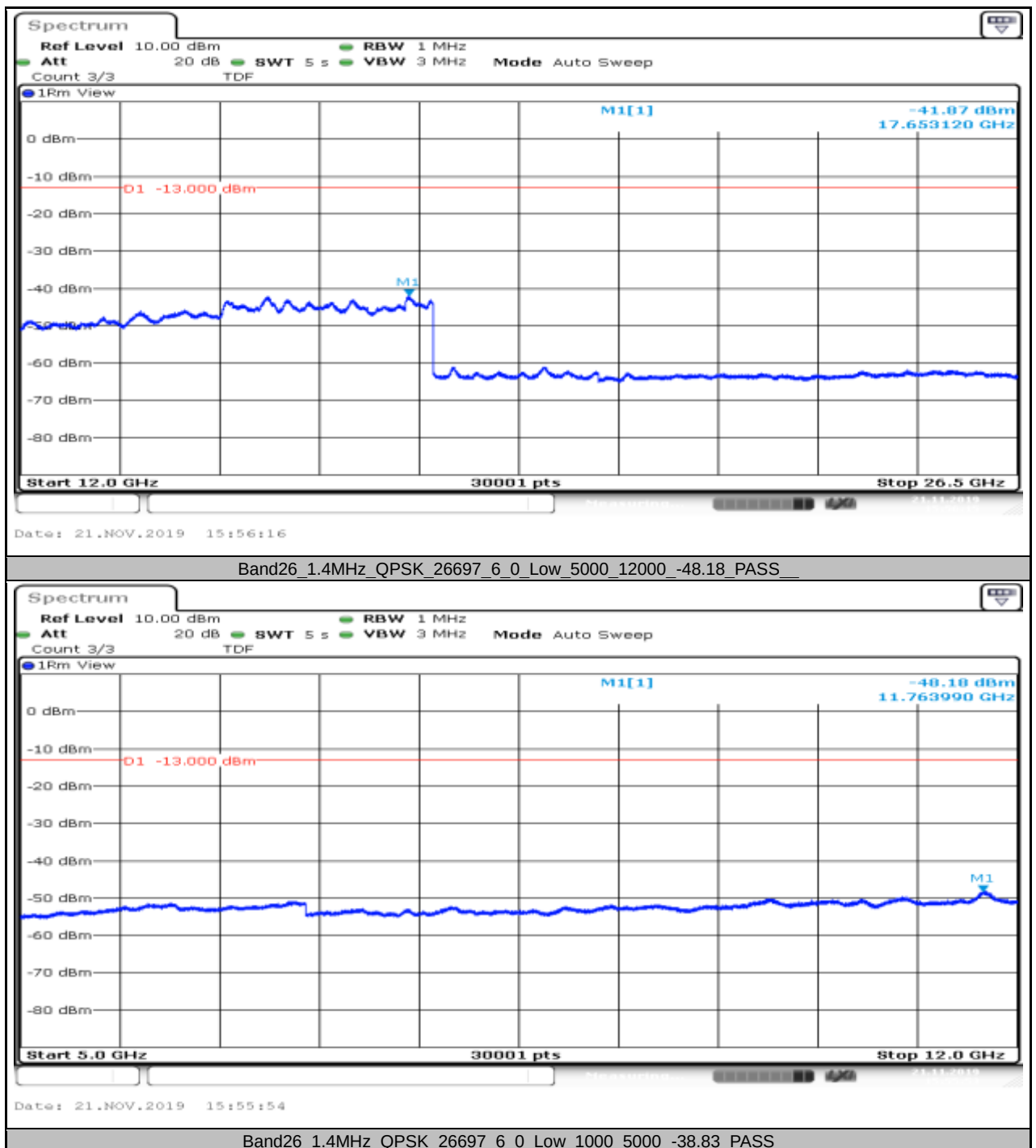
Band26_1.4MHz_QPSK_26697_1_0_Low_1000_5000_-38.74_PASS_

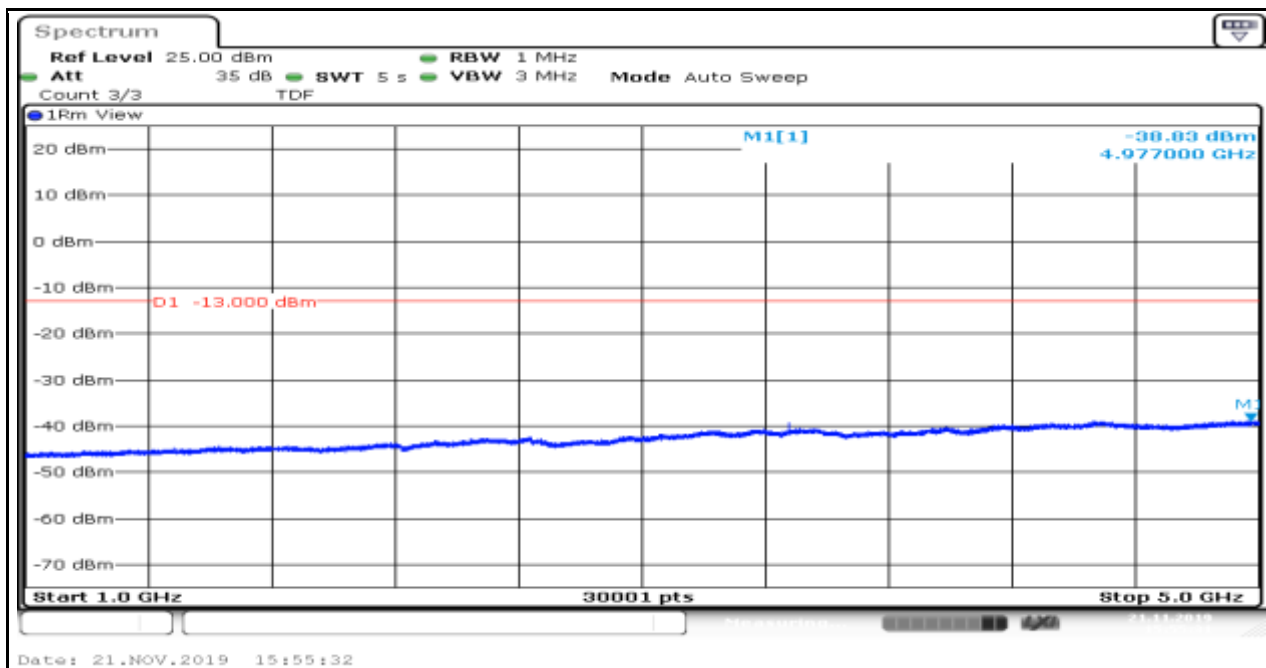


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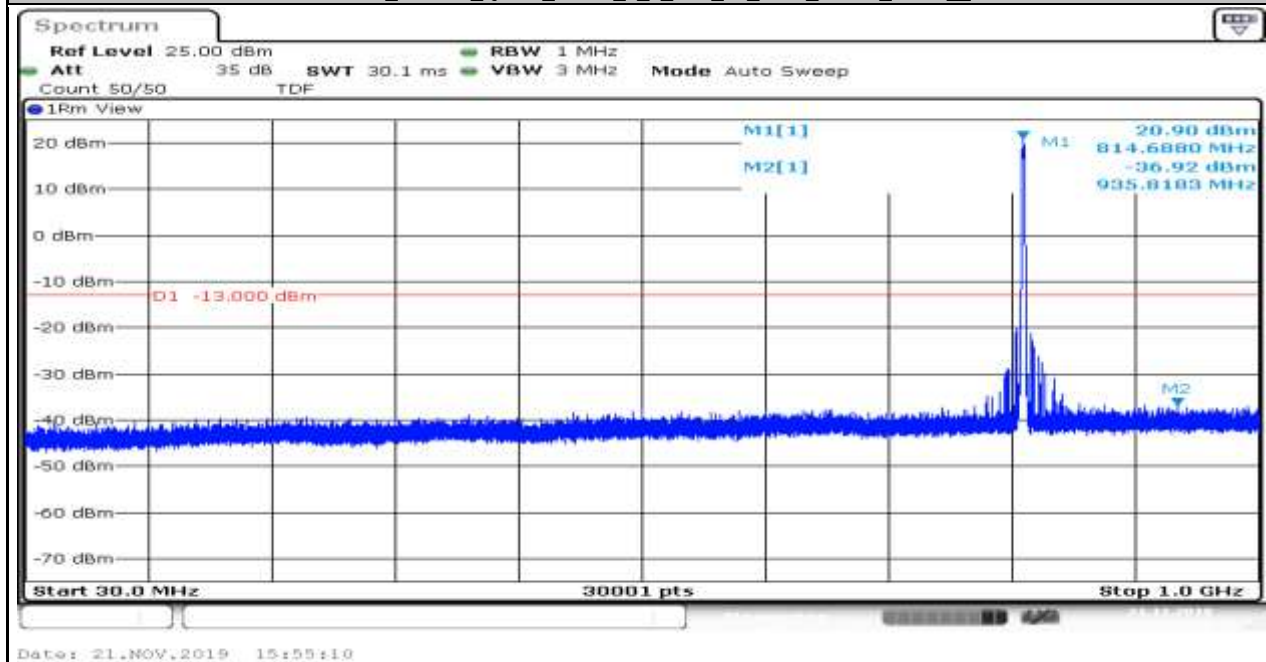


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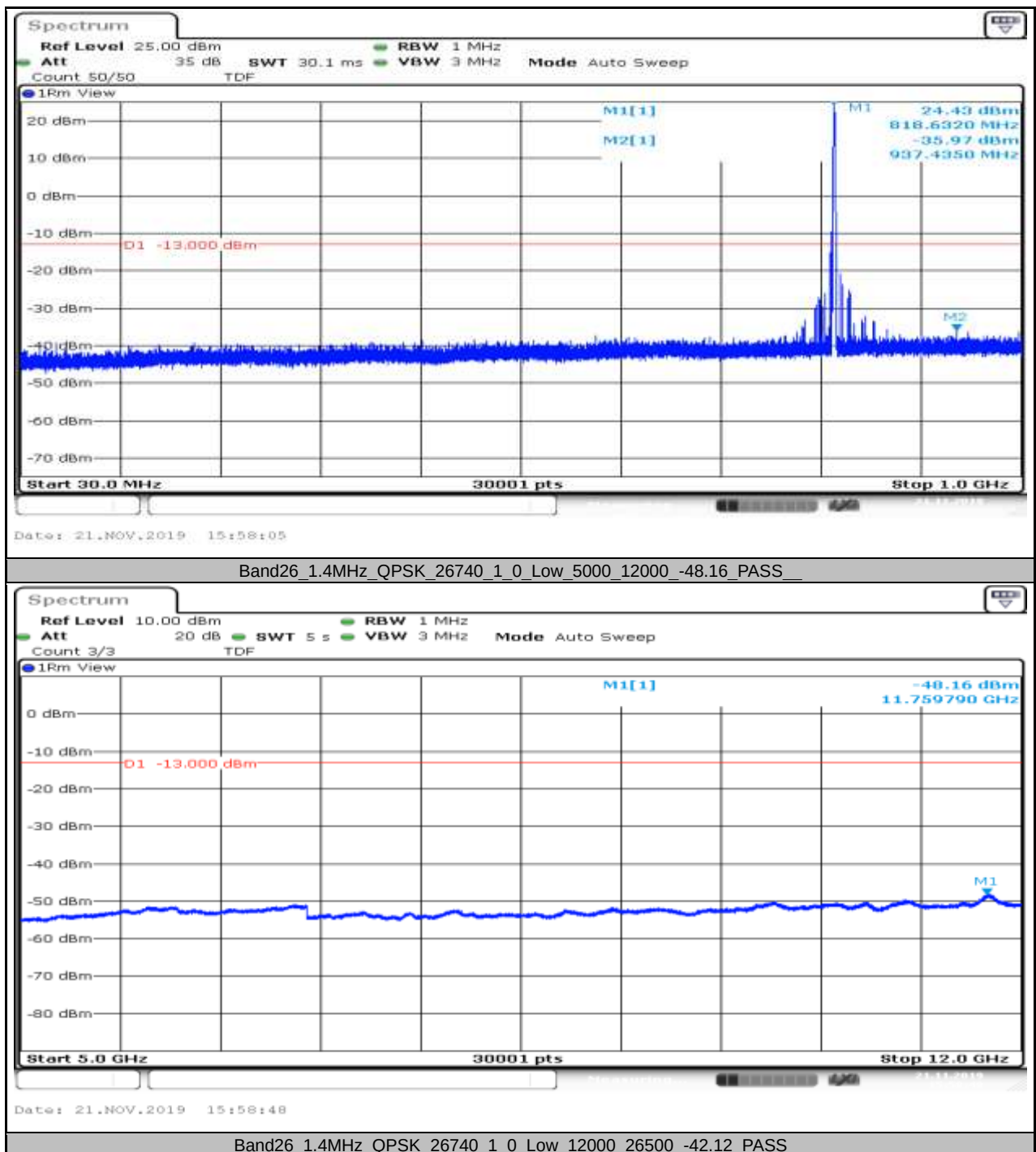


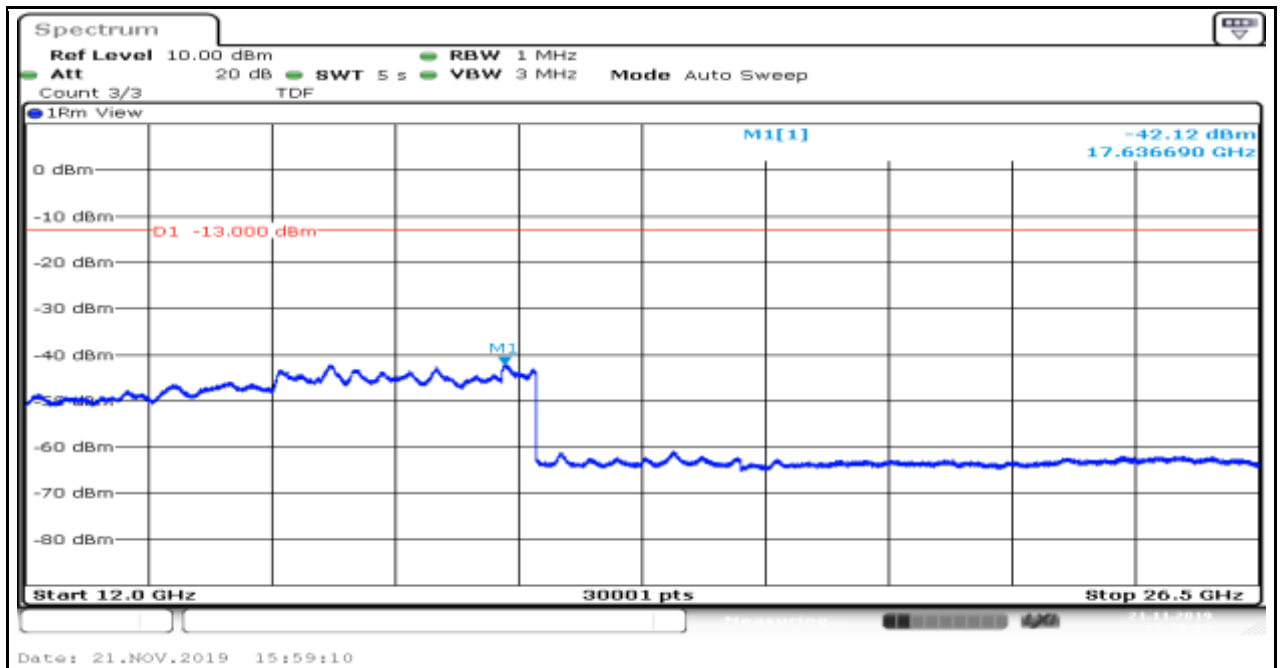


Band26_1.4MHz_QPSK_26697_6_0_Low_30_1000_-36.92_PASS_

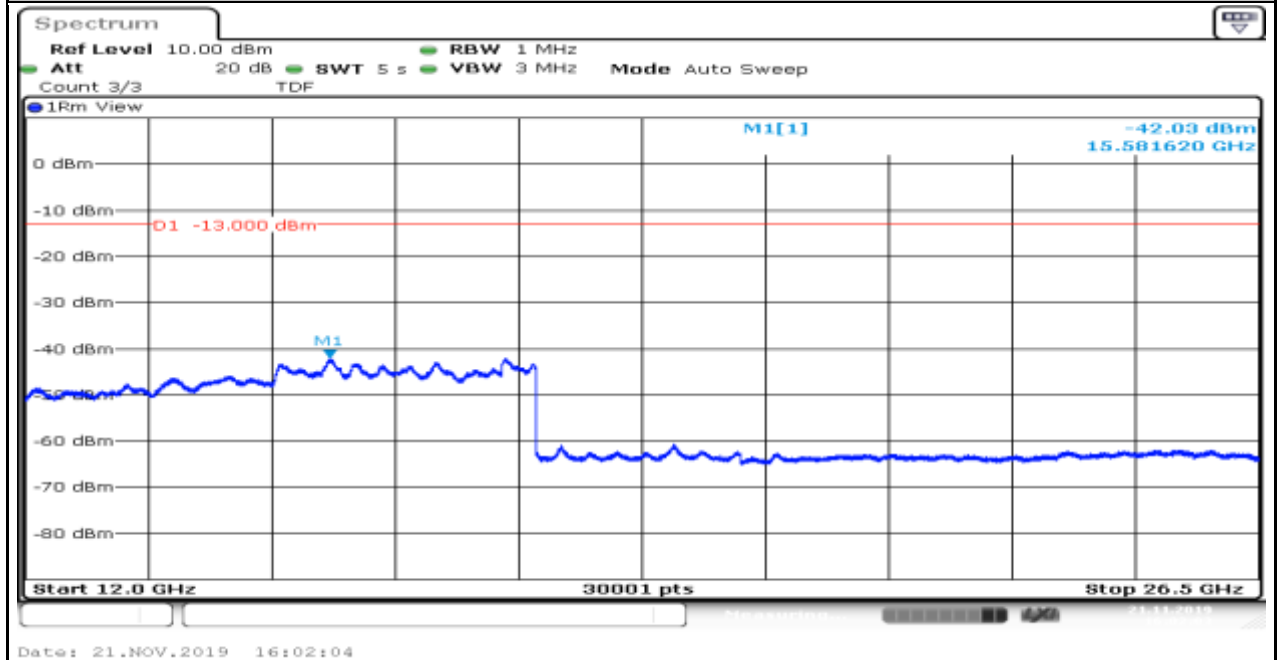


Band26_1.4MHz_QPSK_26740_1_0_Low_30_1000_-35.97_PASS_

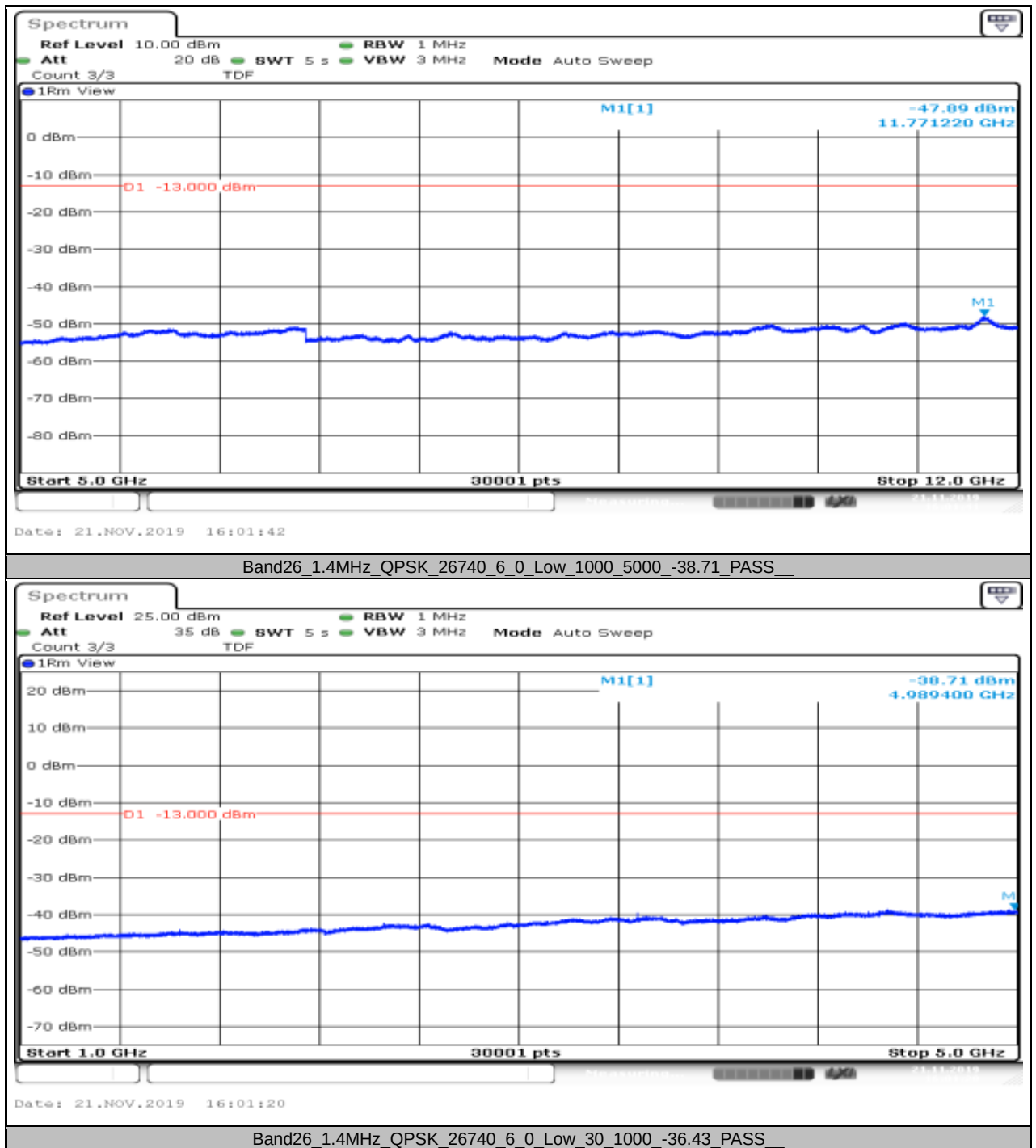


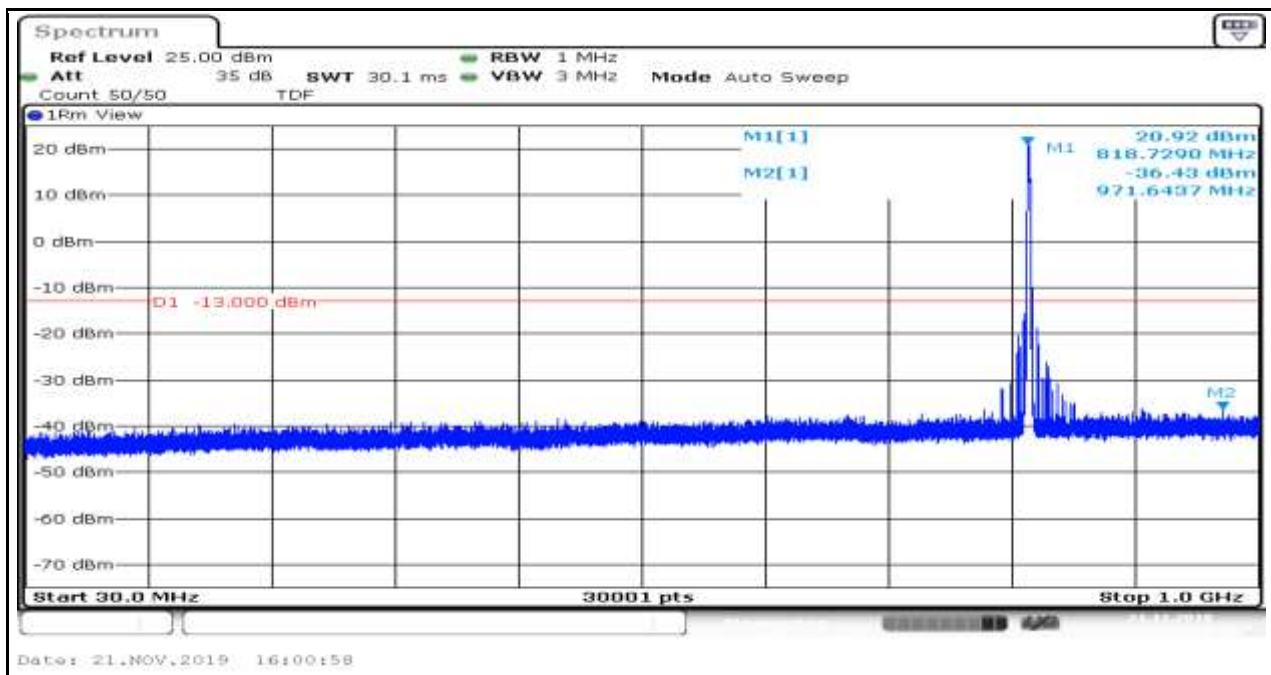


Band26_1.4MHz_QPSK_26740_6_0_Low_12000_26500_-42.03_PASS_

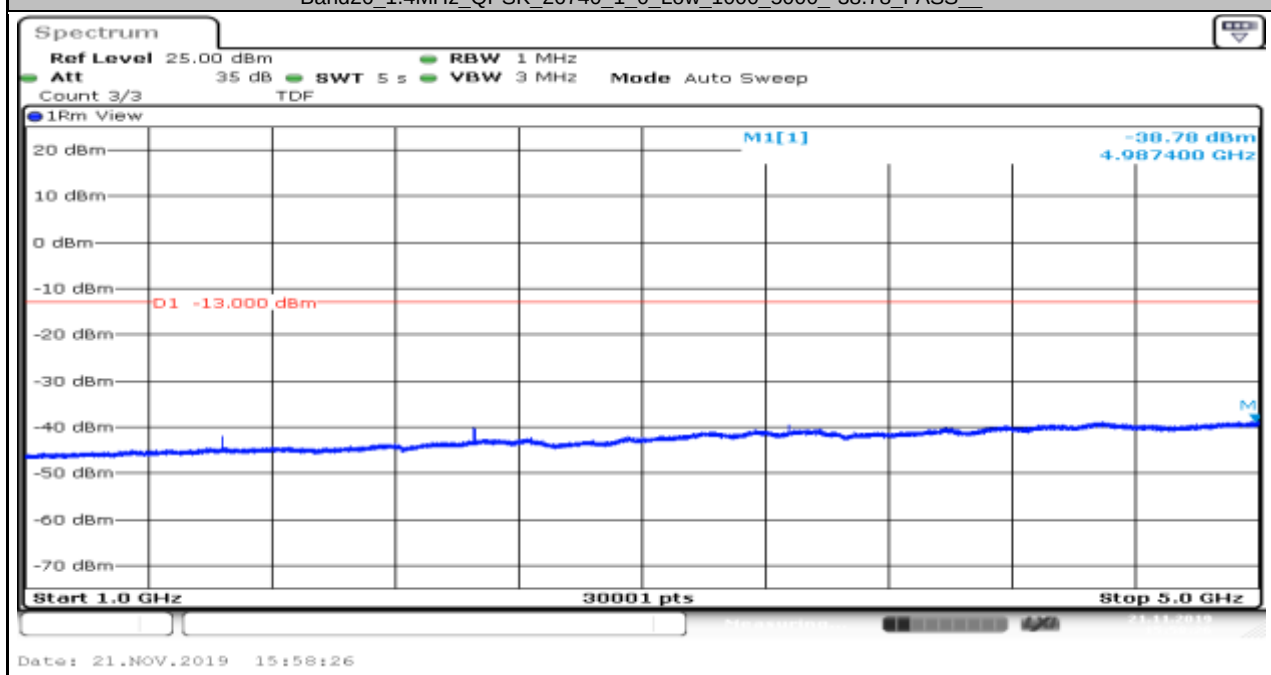


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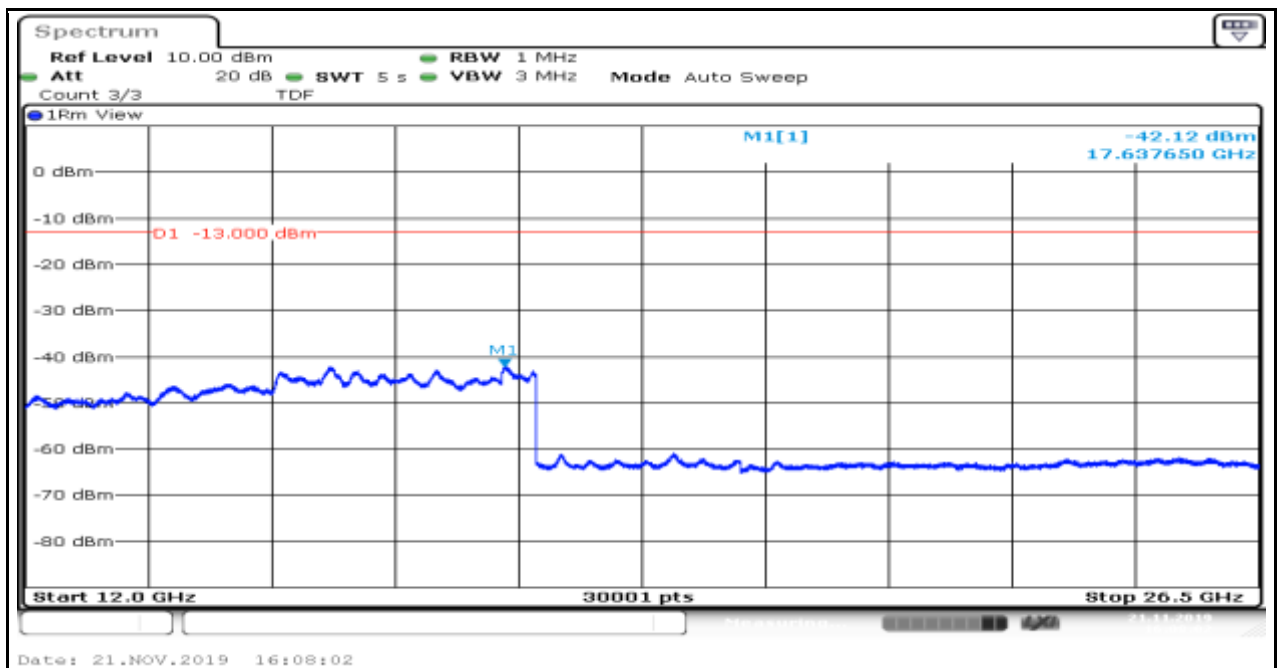




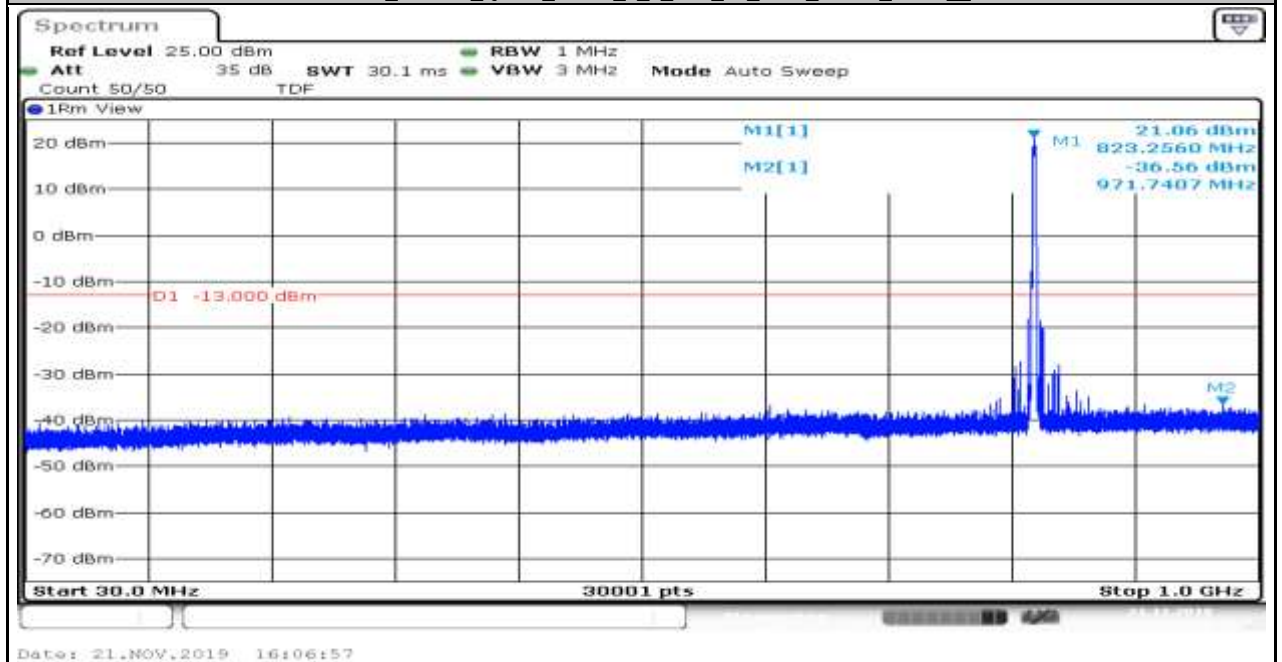
Band26_1.4MHz_QPSK_26740_1_0_Low_1000_5000_-38.78_PASS_



Band26_1.4MHz_QPSK_26783_6_0_Low_12000_26500_-42.12_PASS_

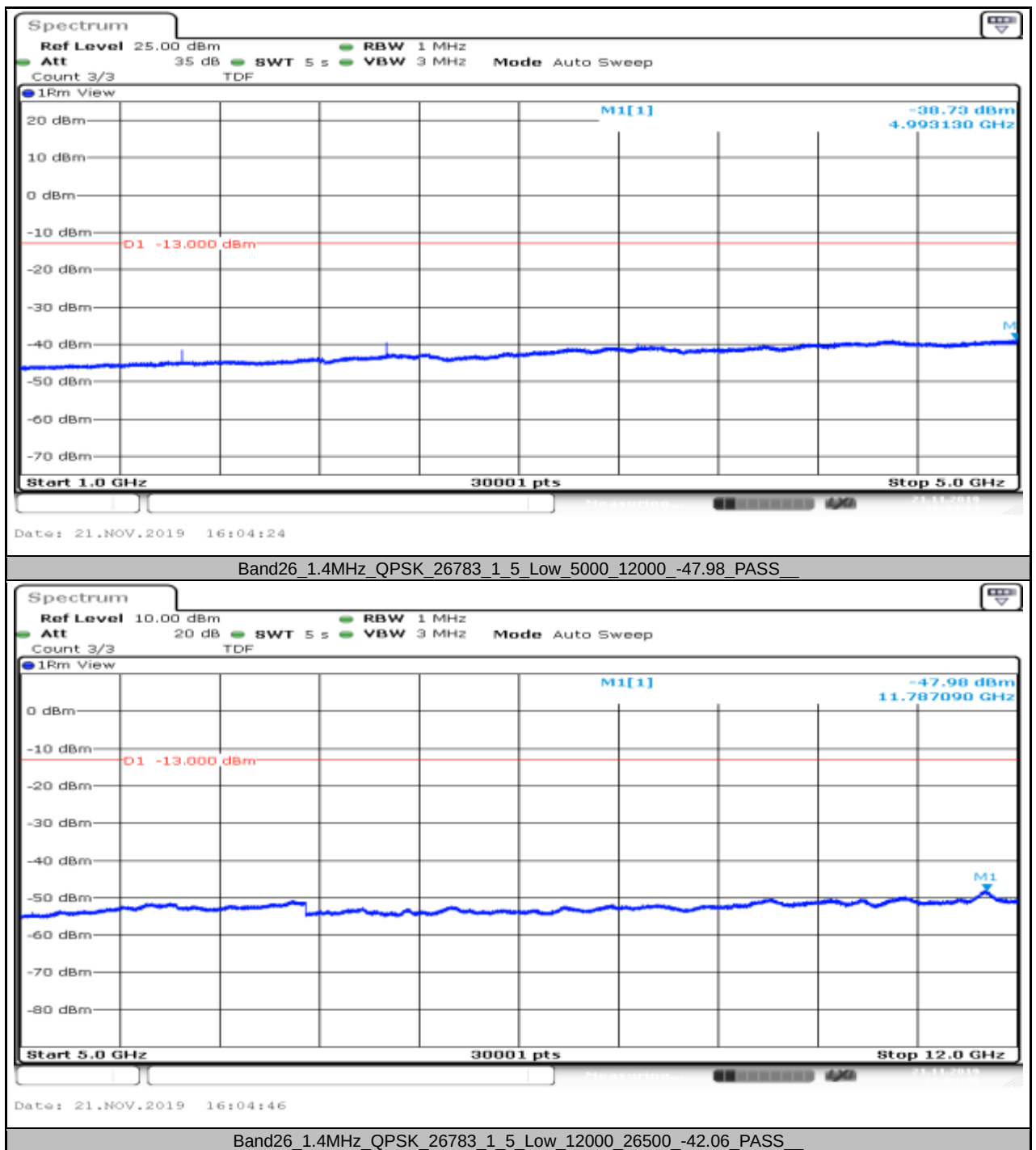


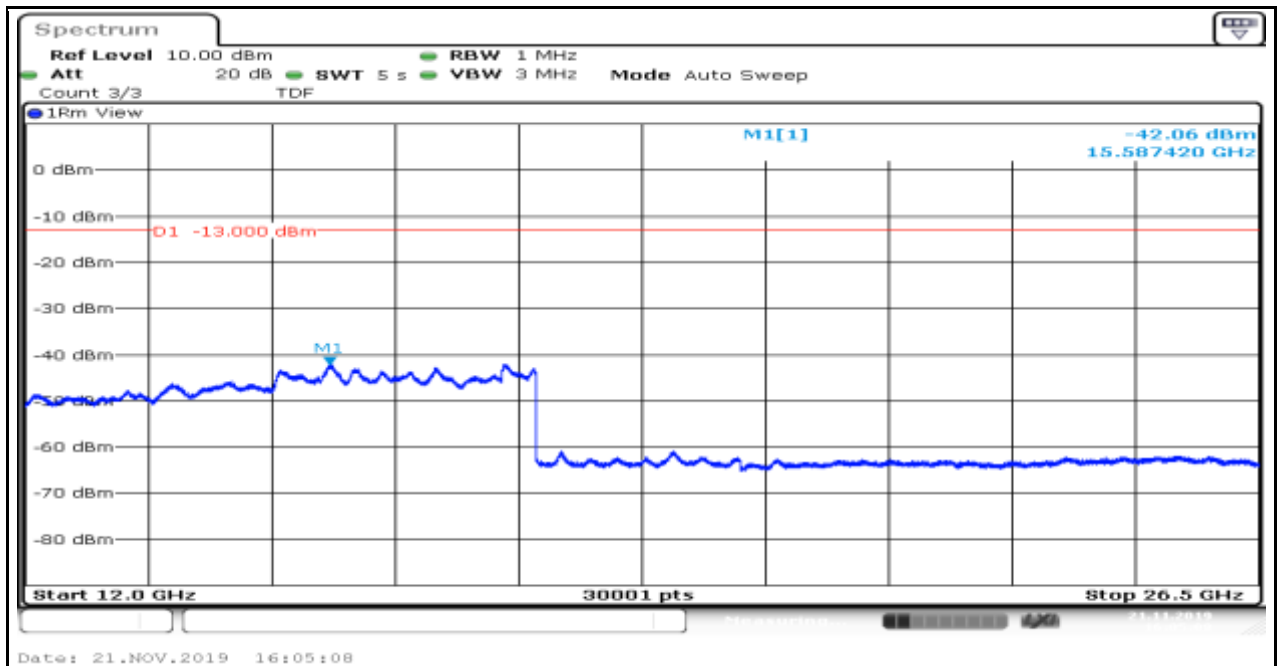
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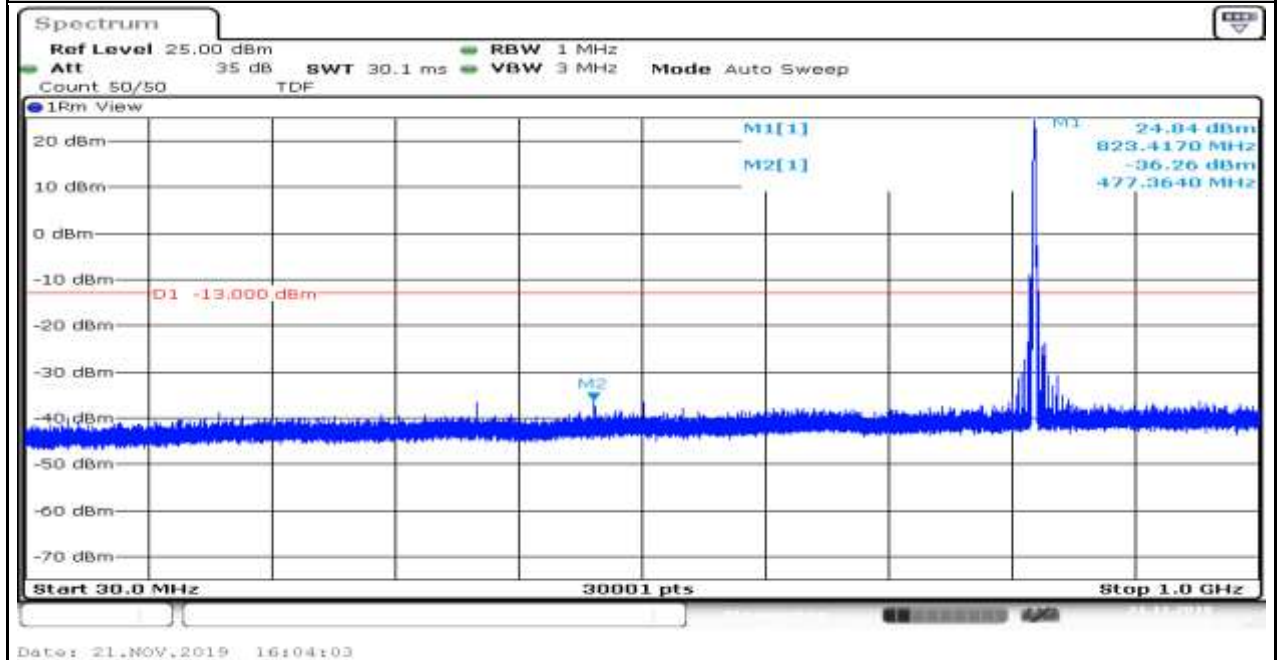
Band26_1.4MHz_QPSK_26783_1_5_Low_1000_5000_-38.73_PASS_

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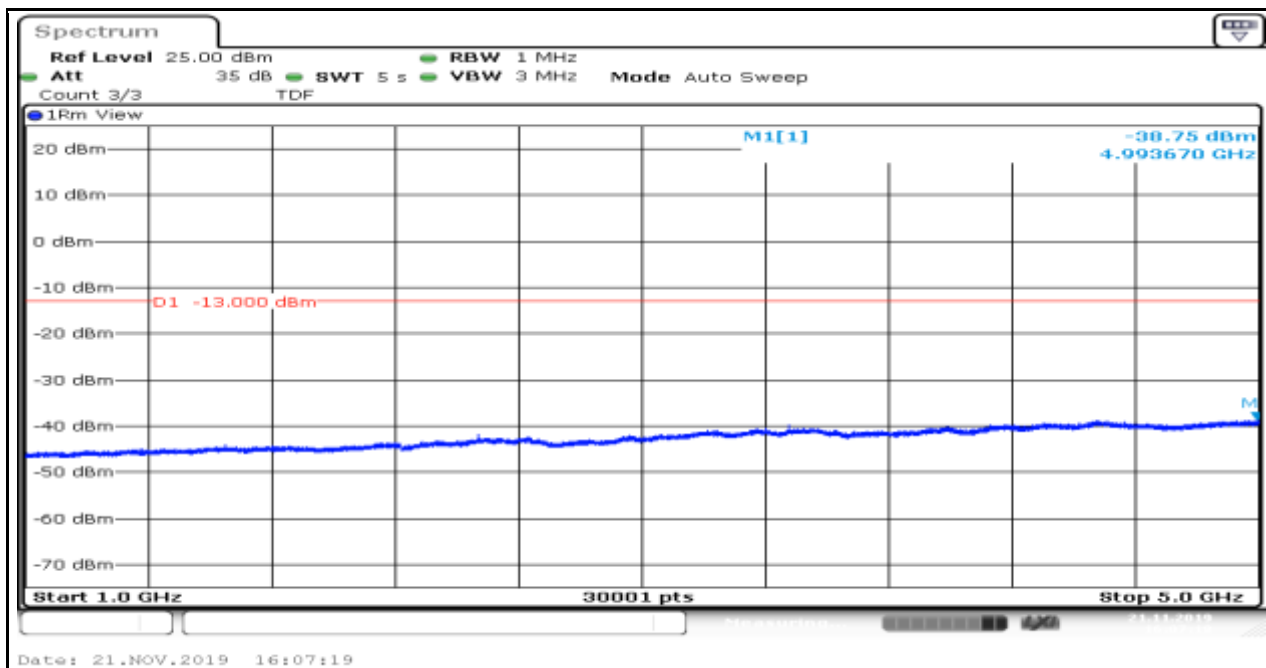




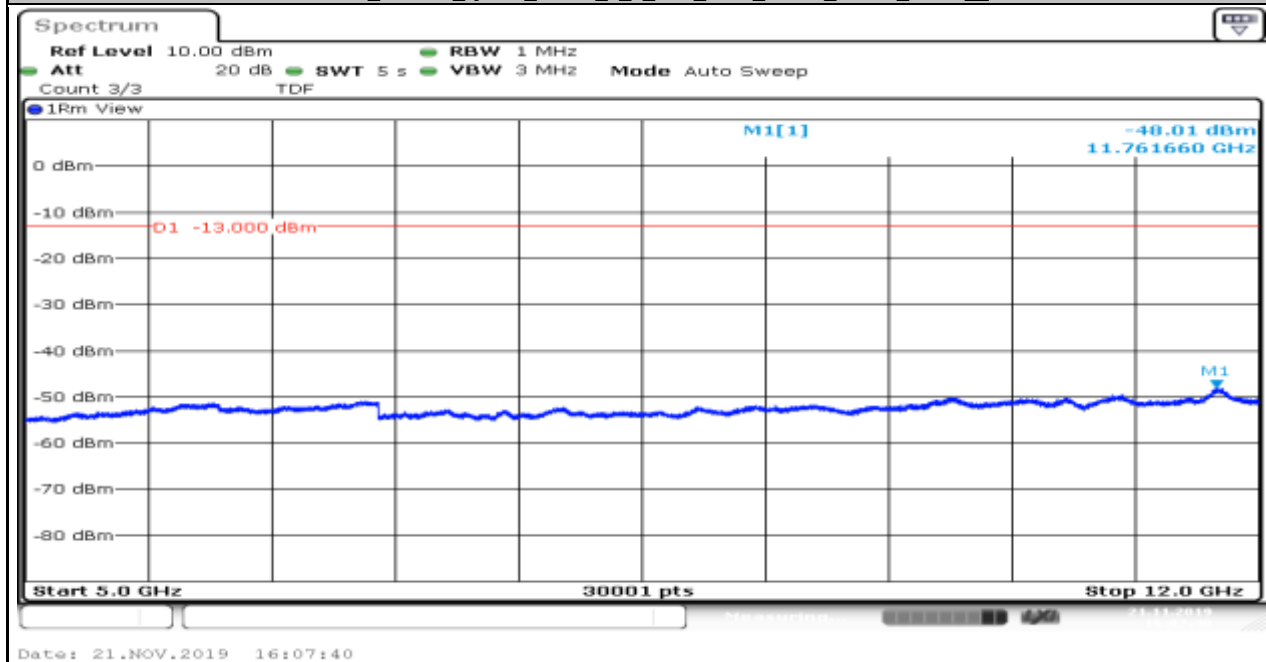
Band26_1.4MHz_QPSK_26783_1_5_Low_30_1000_-36.26_PASS_



Band26_1.4MHz_QPSK_26783_6_0_Low_1000_5000_-38.75_PASS_

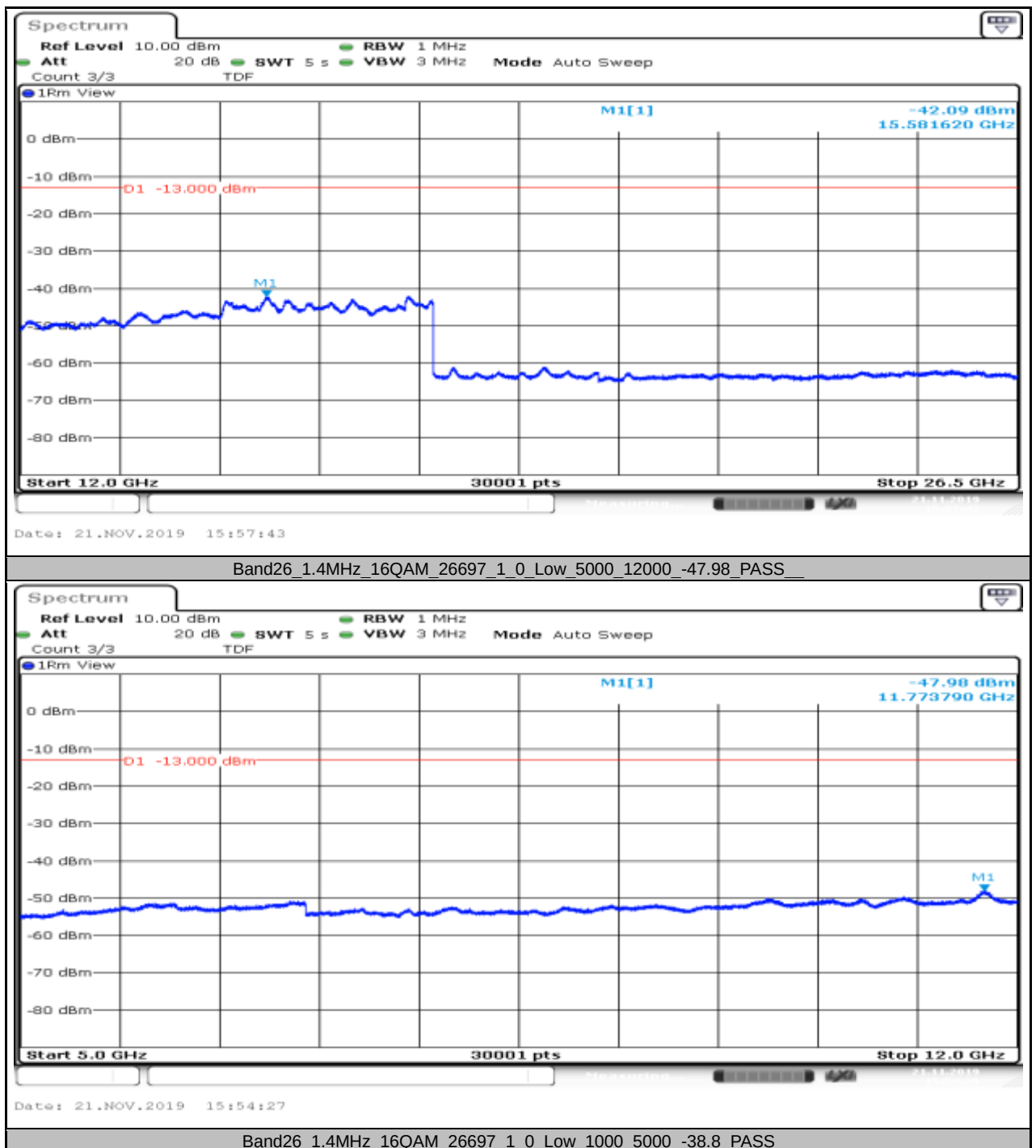


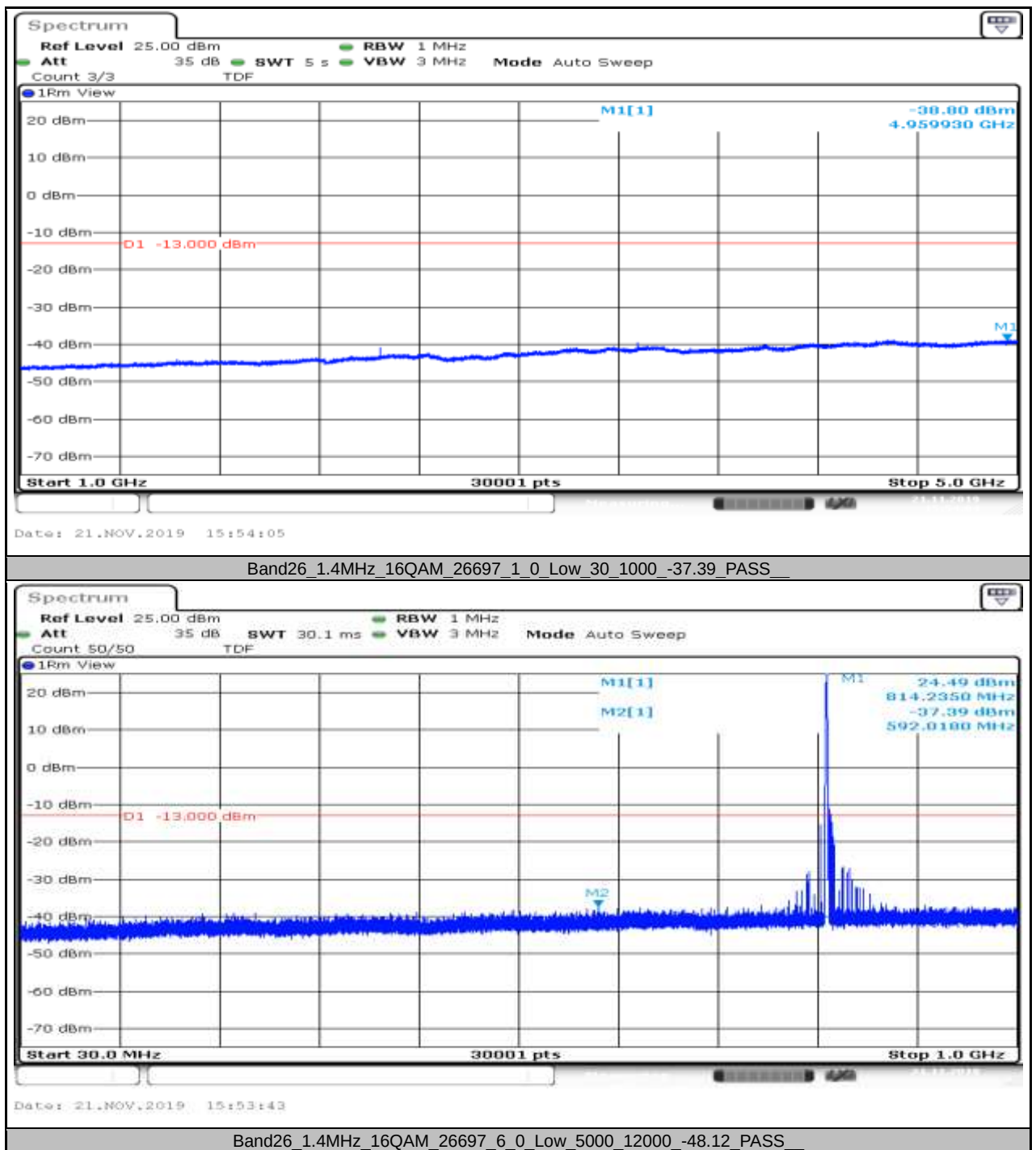
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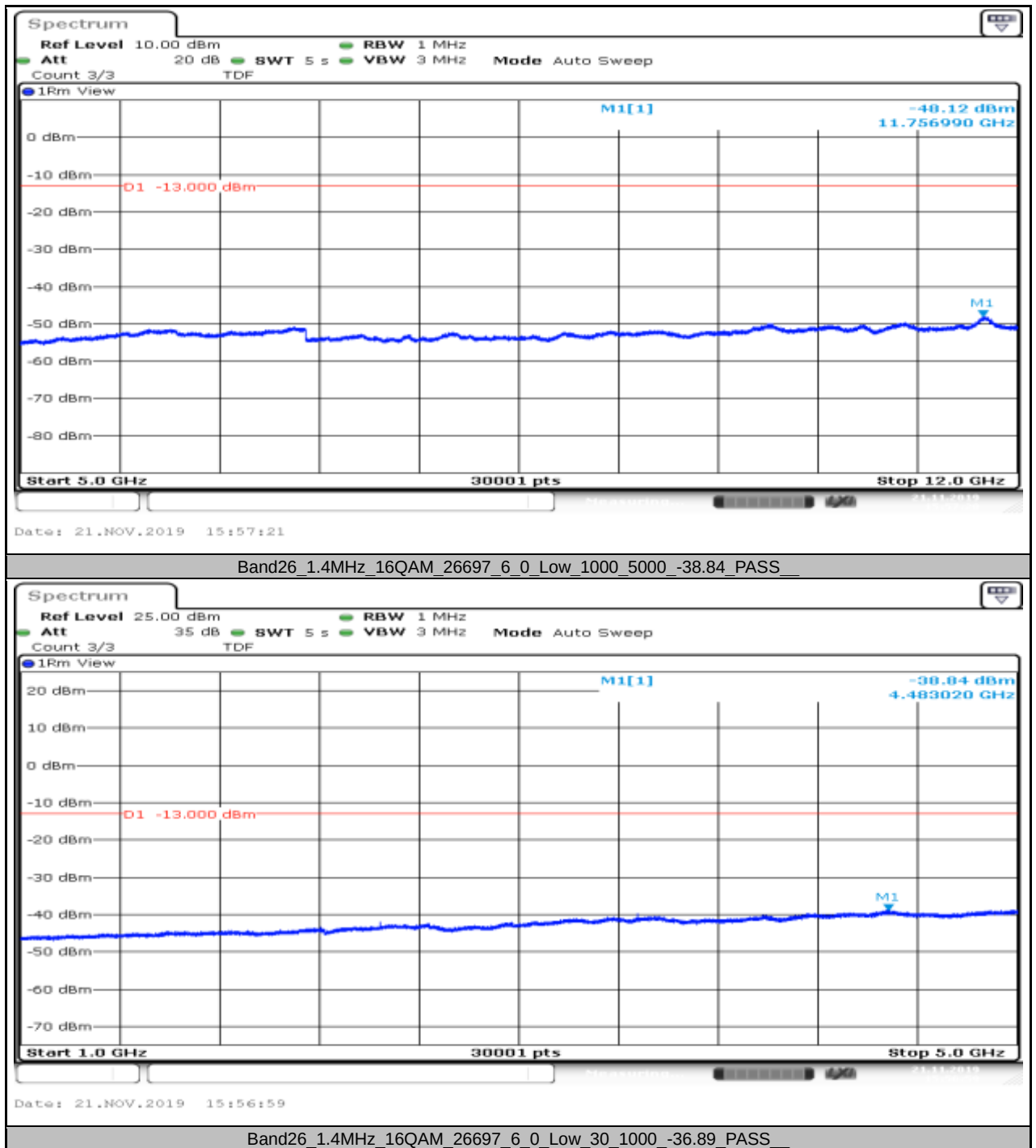


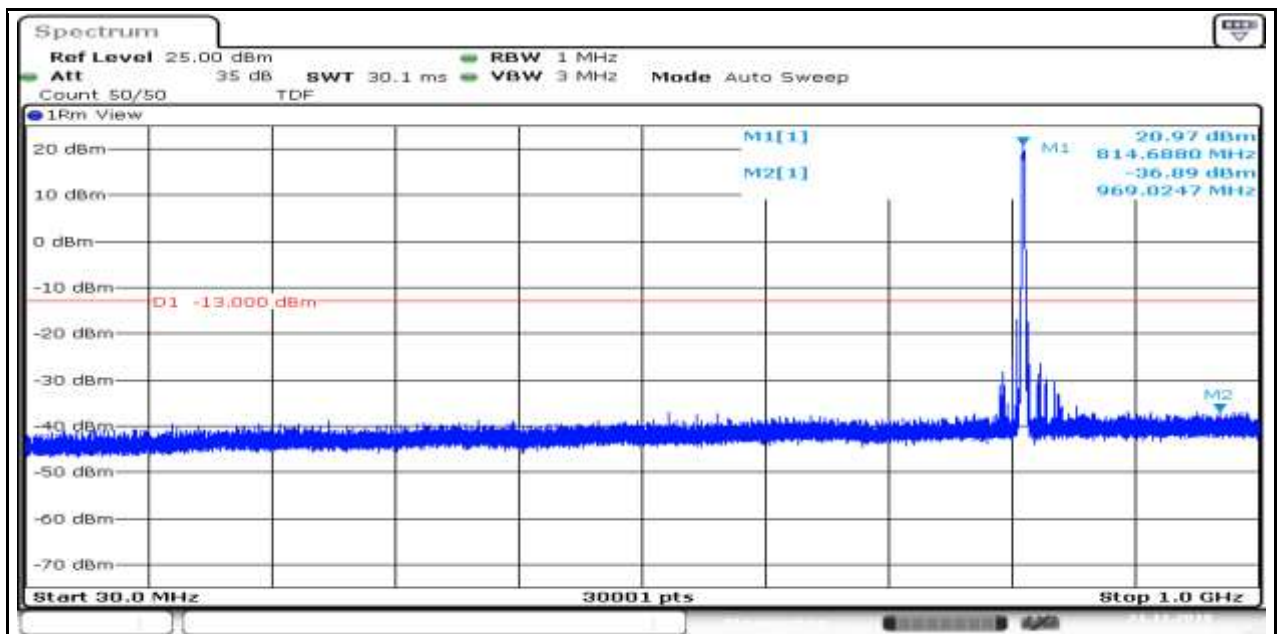
Band26_1.4MHz_16QAM_26697_6_0_Low_12000_26500_-42.09_PASS_

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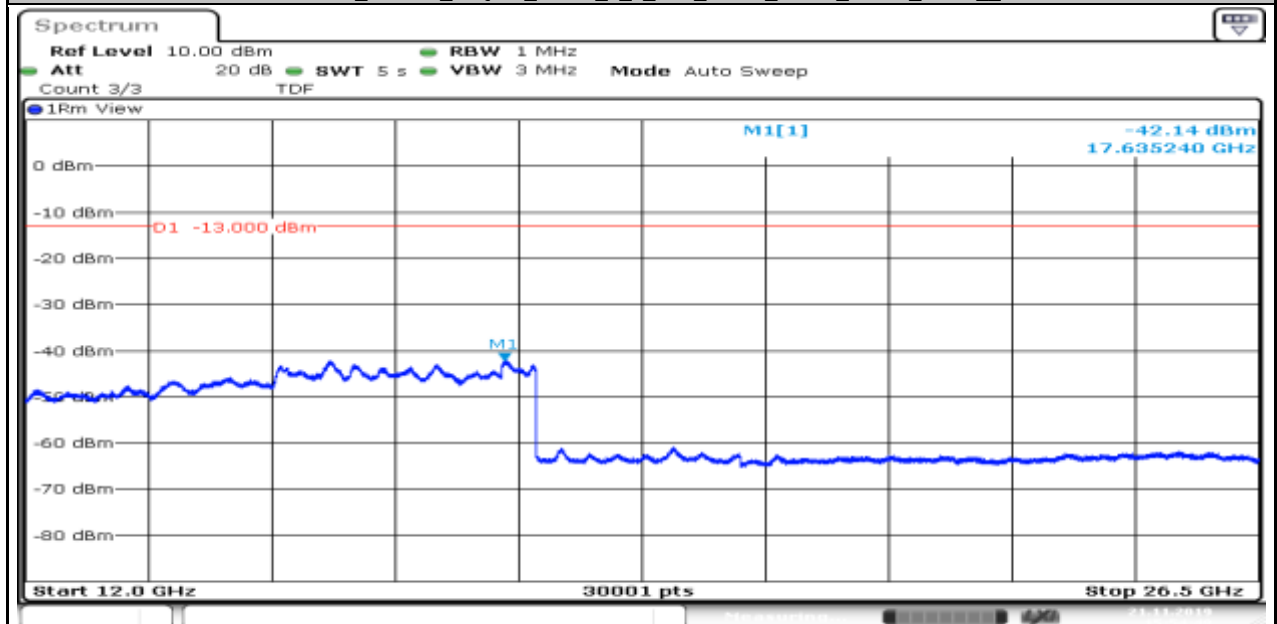






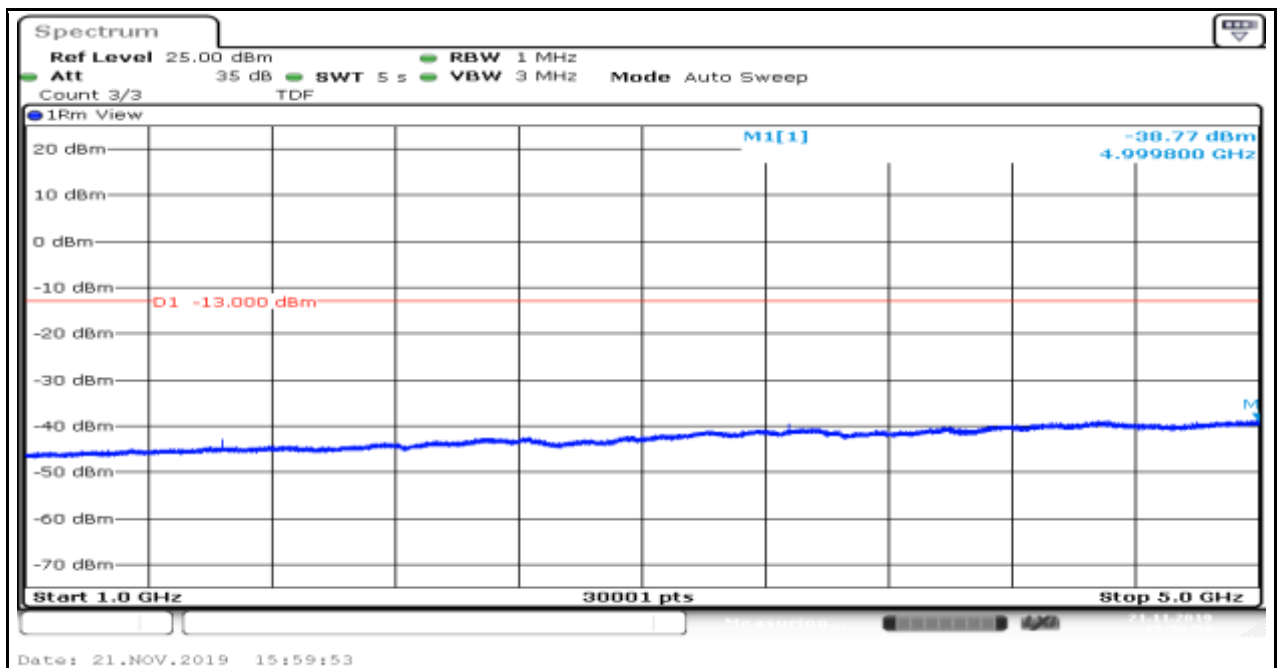
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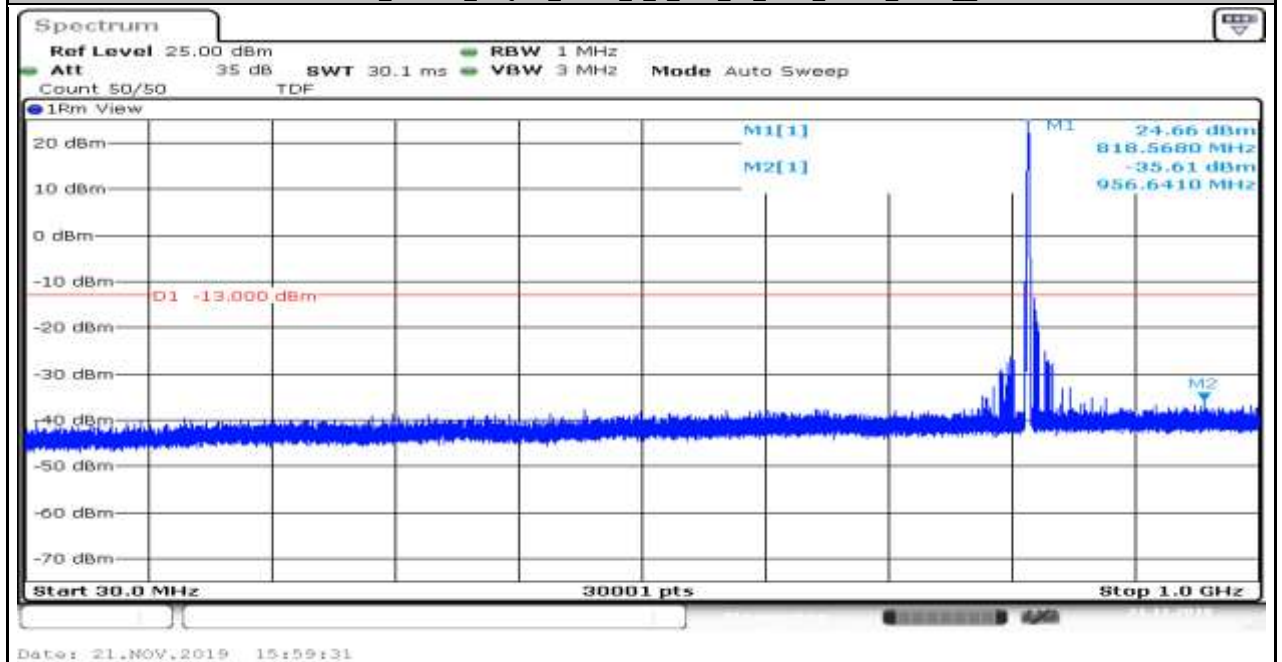


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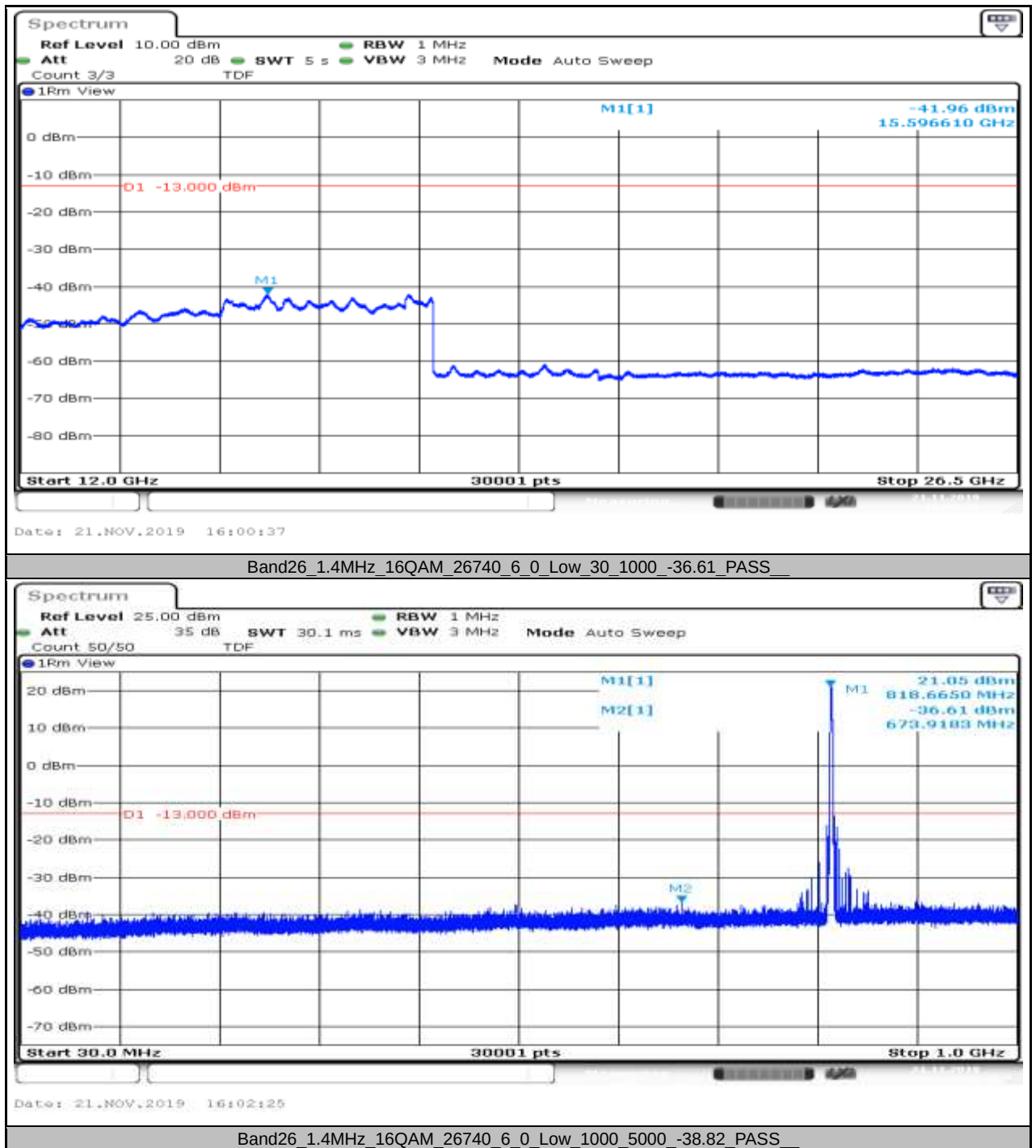
Band26_1.4MHz_16QAM_26740_1_0_Low_1000_5000_-38.77_PASS_



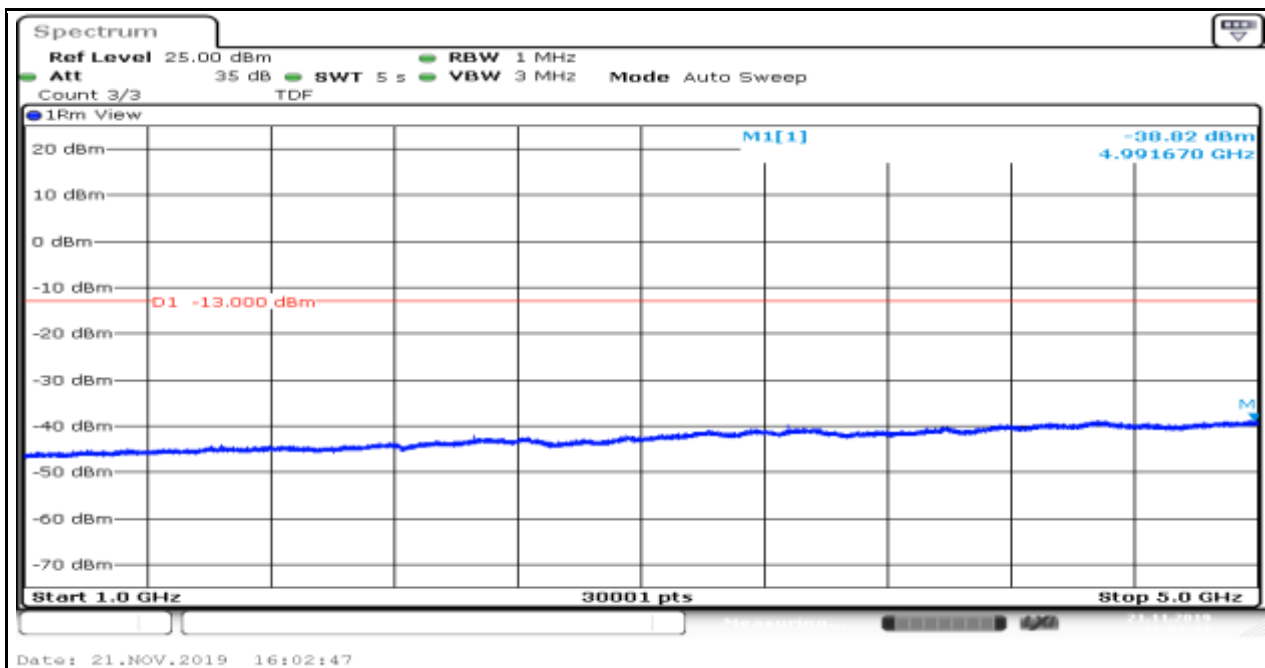
Band26_1.4MHz_16QAM_26740_1_0_Low_30_1000_-35.61_PASS



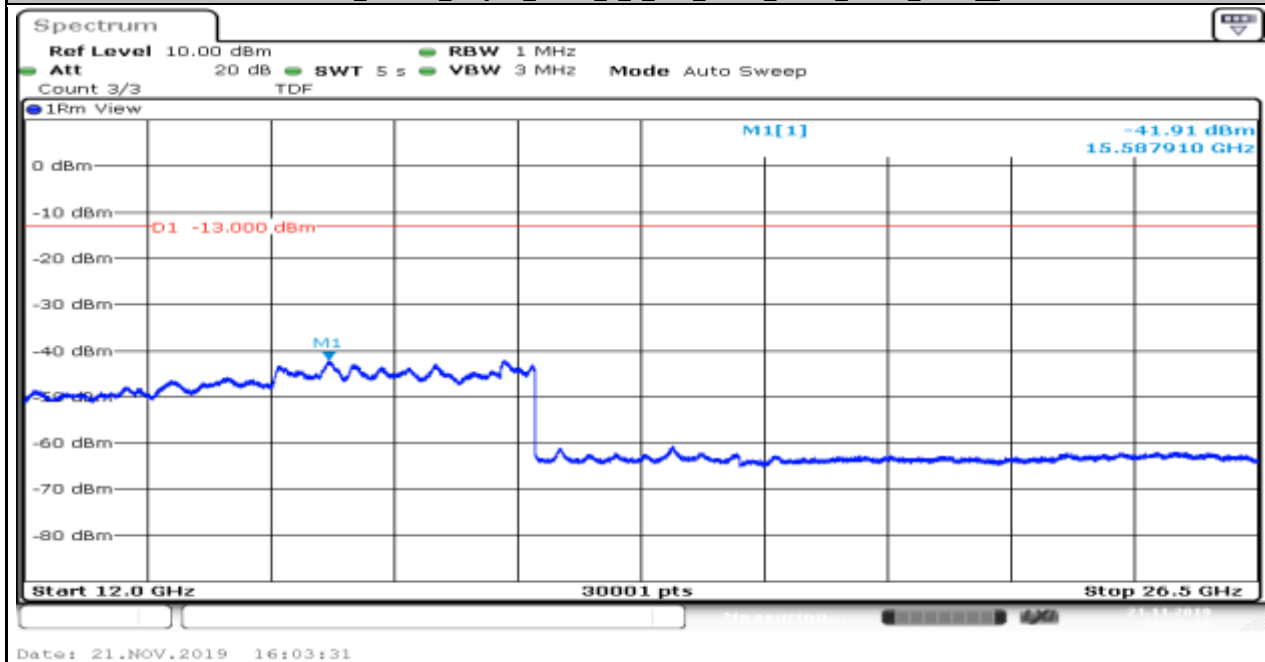
Band26_1.4MHz_16QAM_26740_1_0_Low_12000_26500_-41.96_PASS



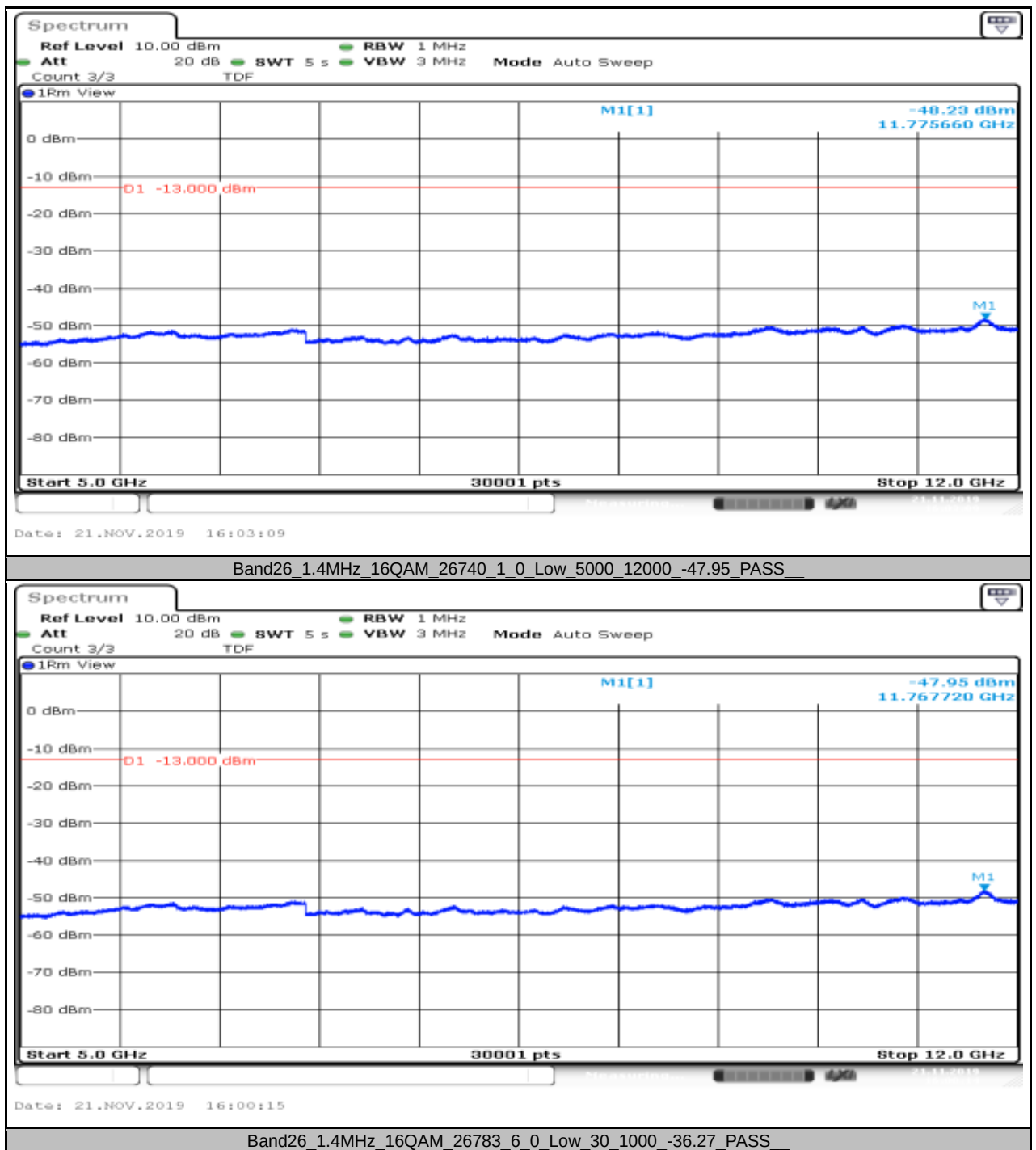
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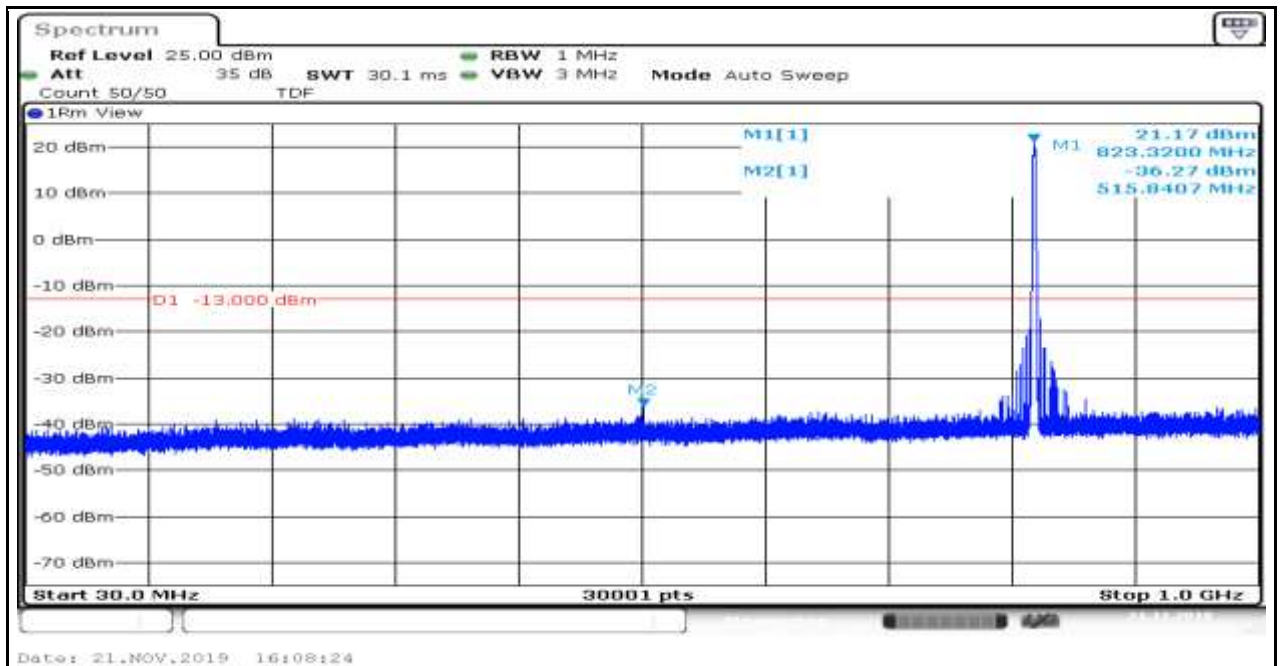


Band26_1.4MHz_16QAM_26740_6_0_Low_12000_26500_-41.91_PASS_

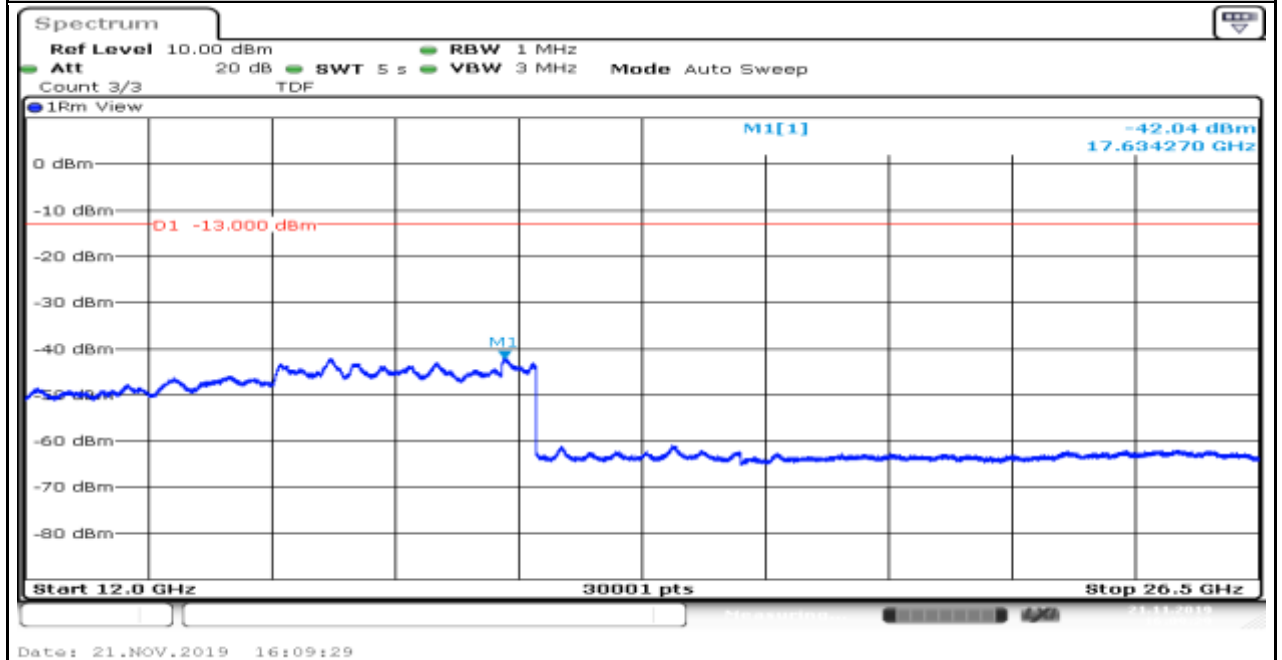


Band26_1.4MHz_16QAM_26740_6_0_Low_5000_12000_-48.23_PASS_

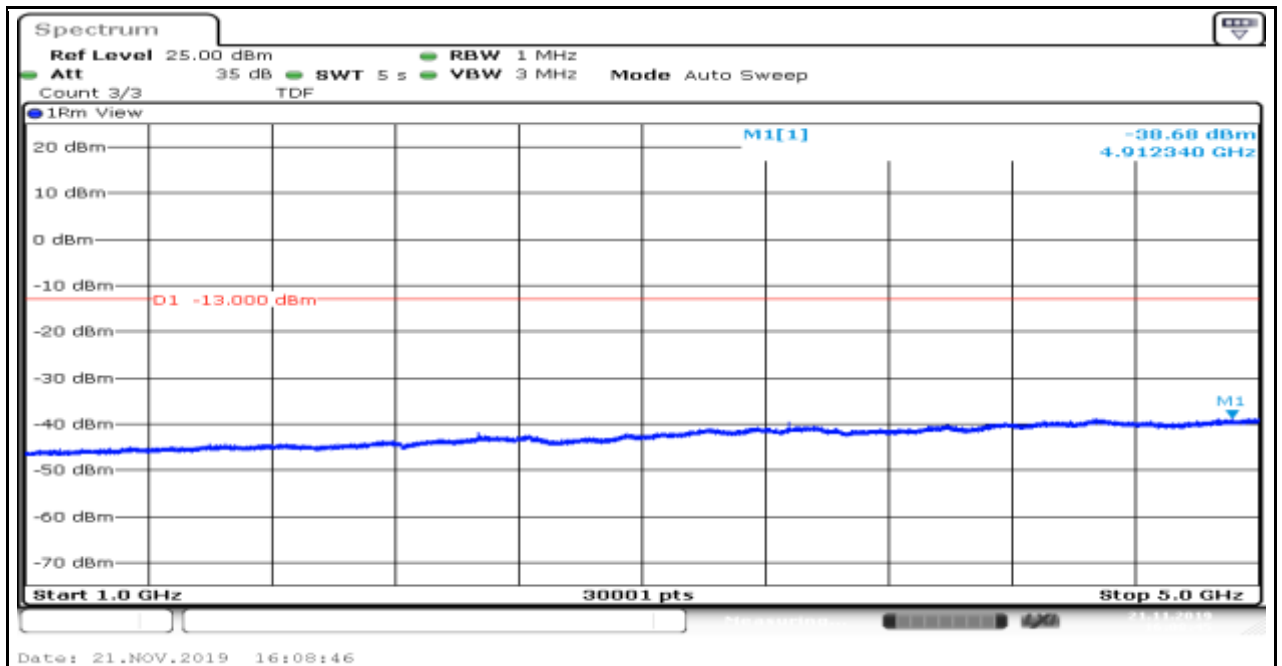




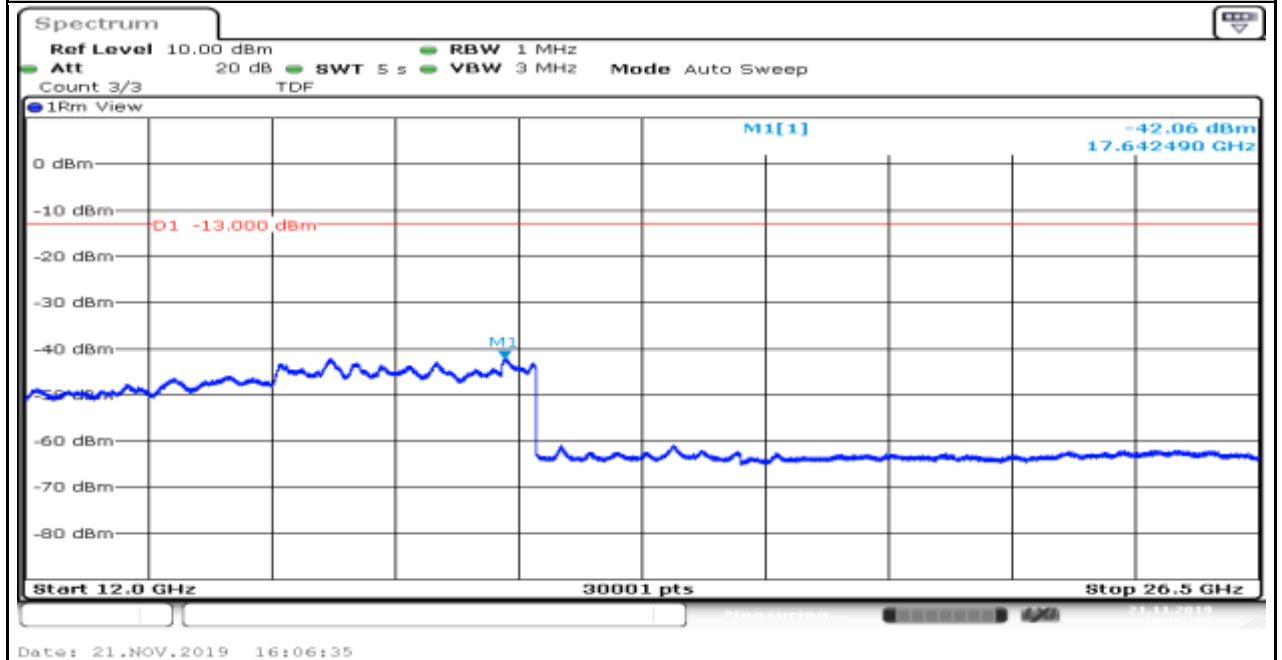
Band26_1.4MHz_16QAM_26783_6_0_Low_12000_26500_-42.04_PASS_



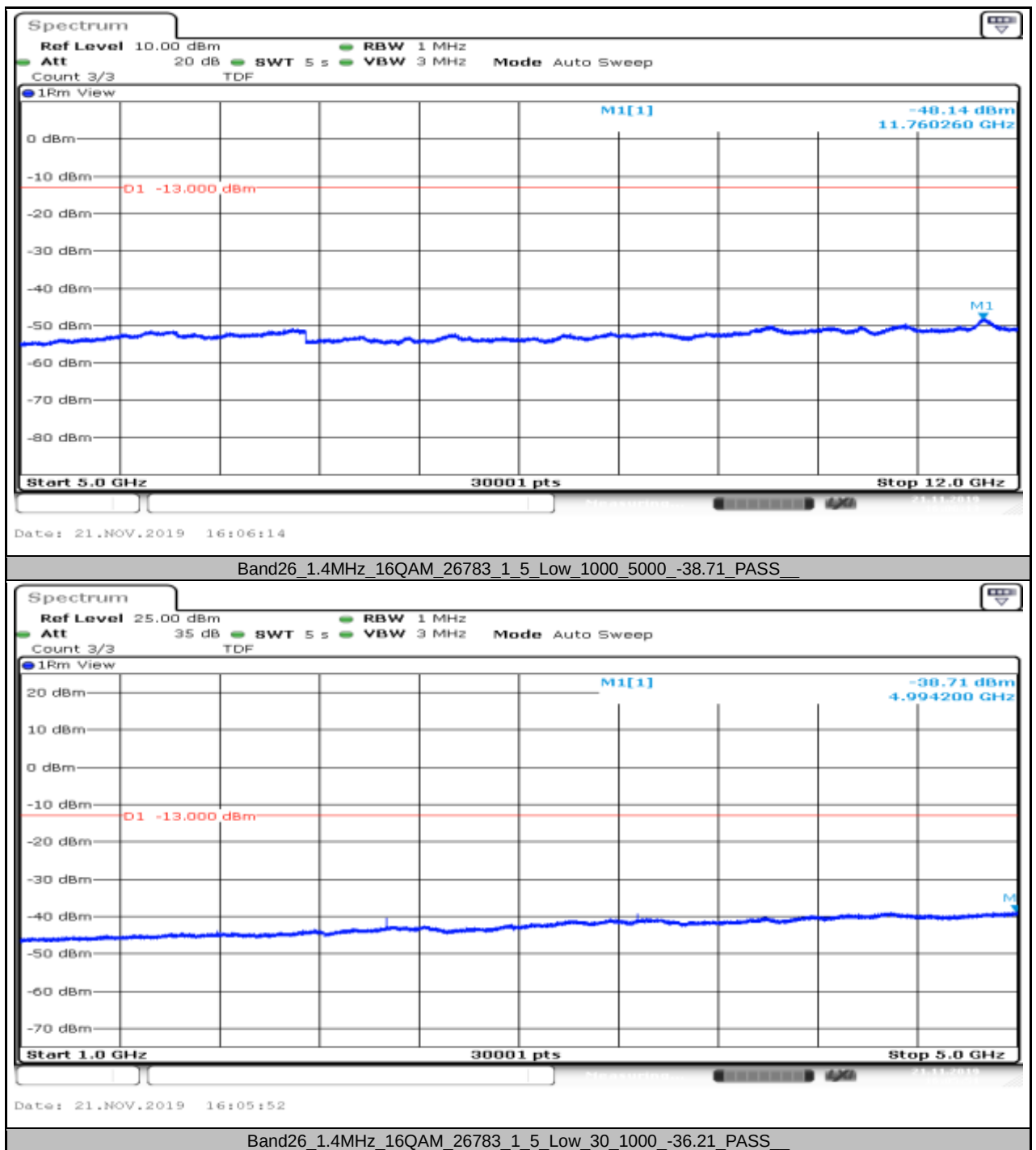
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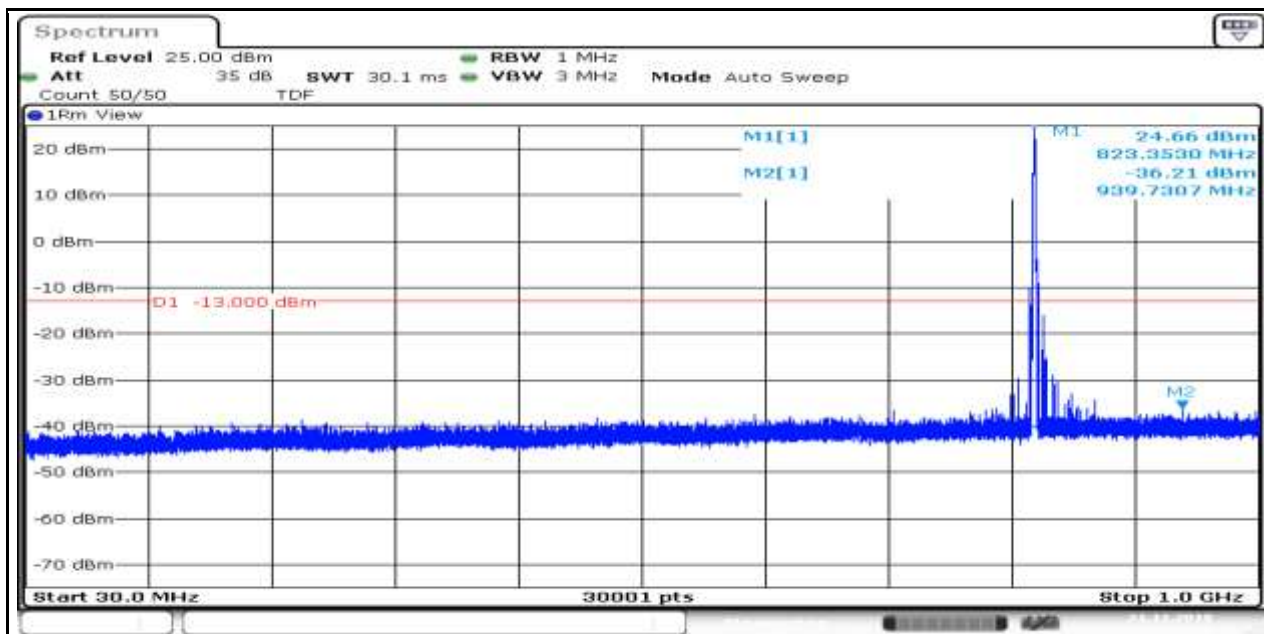


Band26_1.4MHz_16QAM_26783_1_5_Low_12000_26500_-42.06_PASS_



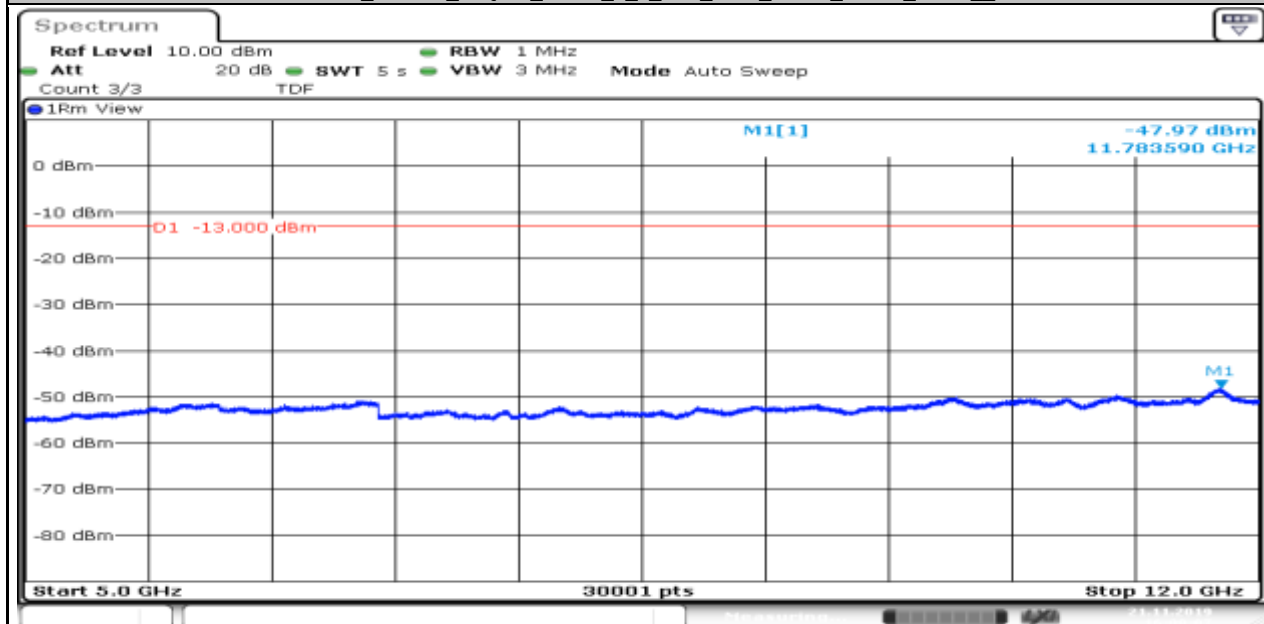
Band26_1.4MHz_16QAM_26783_1_5_Low_5000_12000_-48.14_PASS_





Date: 21.NOV.2019 16:05:30

Band26_1.4MHz_16QAM_26783_6_0_Low_5000_12000_-47.97_PASS_



Date: 21.NOV.2019 16:09:08

Appendix G.6: Frequency Stability for M1 Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	1.4MHz	QPSK	26740	1	0	Low	HV	NT	-8.21	-0.01002	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	NT	-7.31	-0.00893	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	LV	NT	-9.93	-0.01213	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	LV	NT	58.55	0.07149	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	HV	NT	56.42	0.068889	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	NT	59.55	0.072711	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	85	-8.61	-0.01051	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	80	-7.71	-0.00941	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	60	-12.85	-0.01569	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	-20	-10.27	-0.01254	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	70	-8.04	-0.00982	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	-30	-9.54	-0.01165	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	50	-8.75	-0.01068	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	-10	-9.23	-0.01127	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	0	-11.13	-0.01359	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	10	-9.01	-0.011	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	20	-11.94	-0.01458	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	30	-6.94	-0.00847	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	40	-9.96	-0.01216	±2.5	PASS
Band26	1.4MHz	QPSK	26740	1	0	Low	NV	-40	-8.71	-0.01064	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	-20	58.24	0.071111	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	80	59.01	0.072051	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	70	58.09	0.070928	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	60	58.36	0.071258	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	50	60.2	0.073504	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	40	58.71	0.071685	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	30	57.12	0.069744	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	20	57.49	0.070195	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	10	58.25	0.071123	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	-10	58.78	0.07177	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	-30	58.49	0.071416	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	-40	56.46	0.068938	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	85	61.74	0.075385	±2.5	PASS
Band26	1.4MHz	16QAM	26740	1	0	Low	NV	0	56.49	0.068974	±2.5	PASS

Appendix H: Test Results of Band 26 Upper Band for eMTC operation

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Appendix H.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	ERP		Limit (watts)		Verdict
								dBm	watts	FCC	ISED	
Band26	1.4MHz	QPSK	26797	6	0	Low	19.2	19.19	0.083	7	11.5	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	21.07	21.06	0.128	7	11.5	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	19.29	19.28	0.085	7	11.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	21.37	21.36	0.137	7	11.5	PASS
Band26	1.4MHz	QPSK	27033	1	5	Low	21.42	21.41	0.138	7	11.5	PASS
Band26	1.4MHz	QPSK	27033	6	0	Low	19.16	19.15	0.082	7	11.5	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	20.27	20.26	0.106	7	11.5	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	19.2	19.19	0.083	7	11.5	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	19.29	19.28	0.085	7	11.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	20.23	20.22	0.105	7	11.5	PASS
Band26	1.4MHz	16QAM	27033	1	5	Low	20.11	20.1	0.102	7	11.5	PASS
Band26	1.4MHz	16QAM	27033	6	0	Low	19.16	19.15	0.082	7	11.5	PASS
Band26	3MHz	QPSK	26805	6	0	Low	19.1	19.09	0.081	7	11.5	PASS
Band26	3MHz	QPSK	26805	1	0	Low	21.37	21.36	0.137	7	11.5	PASS
Band26	3MHz	QPSK	26915	6	0	Low	19.11	19.1	0.081	7	11.5	PASS
Band26	3MHz	QPSK	26915	1	0	Low	21.21	21.2	0.132	7	11.5	PASS
Band26	3MHz	QPSK	27025	1	5	High	21.21	21.2	0.132	7	11.5	PASS
Band26	3MHz	QPSK	27025	6	0	High	19.1	19.09	0.081	7	11.5	PASS
Band26	3MHz	16QAM	26805	1	0	Low	20.42	20.41	0.110	7	11.5	PASS
Band26	3MHz	16QAM	26805	6	0	Low	19.1	19.09	0.081	7	11.5	PASS
Band26	3MHz	16QAM	26915	1	0	Low	20.46	20.45	0.111	7	11.5	PASS
Band26	3MHz	16QAM	26915	6	0	Low	19.12	19.11	0.081	7	11.5	PASS
Band26	3MHz	16QAM	27025	1	5	High	20.33	20.32	0.108	7	11.5	PASS
Band26	3MHz	16QAM	27025	6	0	High	18.99	18.98	0.079	7	11.5	PASS
Band26	5MHz	QPSK	26815	1	0	Low	21.37	21.36	0.137	7	11.5	PASS
Band26	5MHz	QPSK	26815	6	0	Low	20.11	20.1	0.102	7	11.5	PASS
Band26	5MHz	QPSK	26915	6	0	Low	20.11	20.1	0.102	7	11.5	PASS
Band26	5MHz	QPSK	26915	1	0	Low	21.27	21.26	0.134	7	11.5	PASS
Band26	5MHz	QPSK	27015	3	3	High	21.06	21.05	0.127	7	11.5	PASS
Band26	5MHz	QPSK	27015	1	5	High	21.17	21.16	0.131	7	11.5	PASS
Band26	5MHz	16QAM	26815	6	0	Low	20.17	20.16	0.104	7	11.5	PASS
Band26	5MHz	16QAM	26815	1	0	Low	20.66	20.65	0.116	7	11.5	PASS
Band26	5MHz	16QAM	26915	1	0	Low	20.67	20.66	0.116	7	11.5	PASS
Band26	5MHz	16QAM	26915	6	0	Low	20.11	20.1	0.102	7	11.5	PASS
Band26	5MHz	16QAM	27015	3	3	High	20.74	20.73	0.118	7	11.5	PASS
Band26	5MHz	16QAM	27015	1	5	High	20.45	20.44	0.111	7	11.5	PASS
Band26	10MHz	QPSK	26840	1	0	Low	21.36	21.35	0.136	7	11.5	PASS
Band26	10MHz	QPSK	26840	5	0	Low	21.22	21.21	0.132	7	11.5	PASS
Band26	10MHz	QPSK	26915	1	0	Low	21.3	21.29	0.135	7	11.5	PASS
Band26	10MHz	QPSK	26915	5	0	Low	21.16	21.15	0.130	7	11.5	PASS
Band26	10MHz	QPSK	26990	1	5	High	21.21	21.2	0.132	7	11.5	PASS
Band26	10MHz	QPSK	26990	5	1	High	21.25	21.24	0.133	7	11.5	PASS
Band26	10MHz	16QAM	26840	5	0	Low	20.95	20.94	0.124	7	11.5	PASS
Band26	10MHz	16QAM	26840	1	0	Low	20.64	20.63	0.116	7	11.5	PASS
Band26	10MHz	16QAM	26915	1	0	Low	20.5	20.49	0.112	7	11.5	PASS
Band26	10MHz	16QAM	26915	5	0	Low	20.9	20.89	0.123	7	11.5	PASS
Band26	10MHz	16QAM	26990	5	1	High	21.18	21.17	0.131	7	11.5	PASS
Band26	10MHz	16QAM	26990	1	5	High	20.48	20.47	0.111	7	11.5	PASS
Band26	15MHz	QPSK	26865	1	0	Low	21.28	21.27	0.134	7	11.5	PASS
Band26	15MHz	QPSK	26865	6	0	Low	21.38	21.37	0.137	7	11.5	PASS
Band26	15MHz	QPSK	26915	1	0	Low	21.13	21.12	0.129	7	11.5	PASS

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Band26	15MHz	QPSK	26915	6	0	Low	21.24	21.23	0.133	7	11.5	PASS
Band26	15MHz	QPSK	26965	6	0	High	21.22	21.21	0.132	7	11.5	PASS
Band26	15MHz	QPSK	26965	1	5	High	21.23	21.22	0.132	7	11.5	PASS
Band26	15MHz	16QAM	26865	1	0	Low	20.68	20.67	0.117	7	11.5	PASS
Band26	15MHz	16QAM	26865	6	0	Low	21.38	21.37	0.137	7	11.5	PASS
Band26	15MHz	16QAM	26915	6	0	Low	21.25	21.24	0.133	7	11.5	PASS
Band26	15MHz	16QAM	26915	1	0	Low	20.68	20.67	0.117	7	11.5	PASS
Band26	15MHz	16QAM	26965	6	0	High	21.22	21.21	0.132	7	11.5	PASS
Band26	15MHz	16QAM	26965	1	5	High	20.52	20.51	0.112	7	11.5	PASS

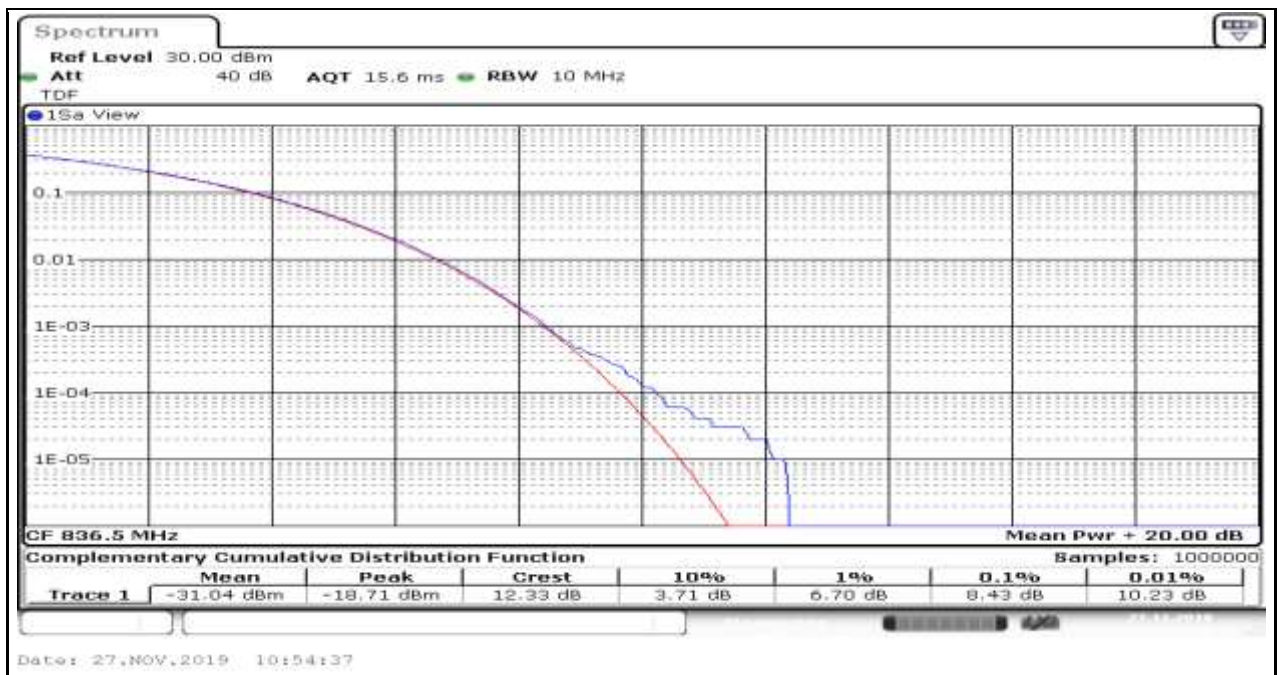
Appendix H.2: Peak-to-Average Ratio(CCDF) for M1

Test Result

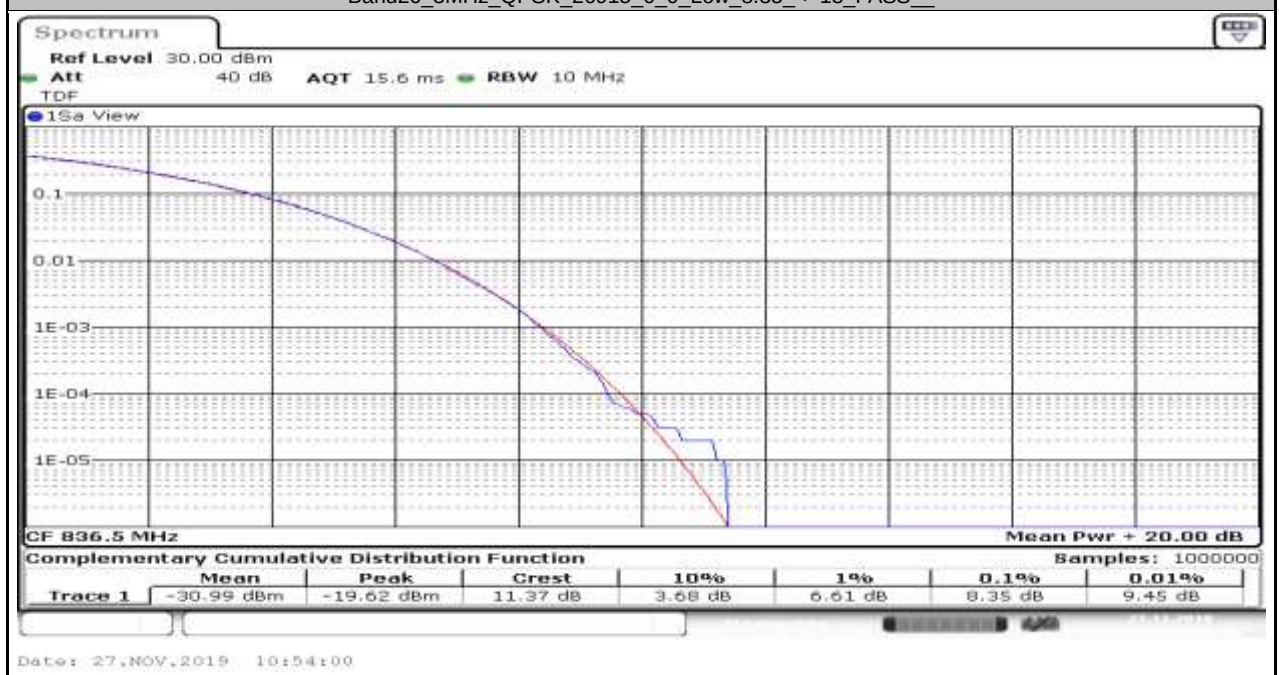
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26915	6	0	Low	8.46	<=13	PASS
Band26	5MHz	QPSK	26915	6	0	Low	8.43	<=13	PASS
Band26	3MHz	QPSK	26915	6	0	Low	8.35	<=13	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	8.46	<=13	PASS
Band26	10MHz	16QAM	26915	6	0	Low	9.57	<=13	PASS
Band26	5MHz	16QAM	26915	6	0	Low	8.87	<=13	PASS
Band26	3MHz	16QAM	26915	6	0	Low	8.96	<=13	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	9.42	<=13	PASS
Band26	15MHz	QPSK	26915	6	0	Low	4.67	<=13	PASS
Band26	15MHz	16QAM	26915	6	0	Low	9.19	<=13	PASS

Test Graphs

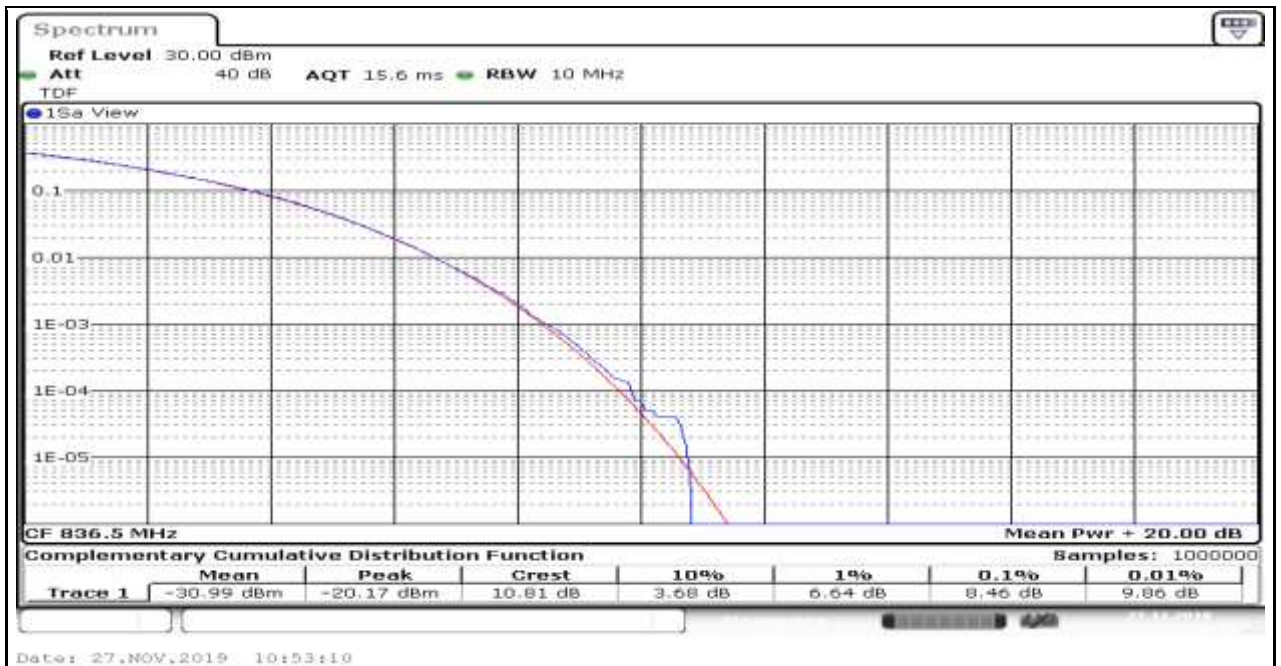




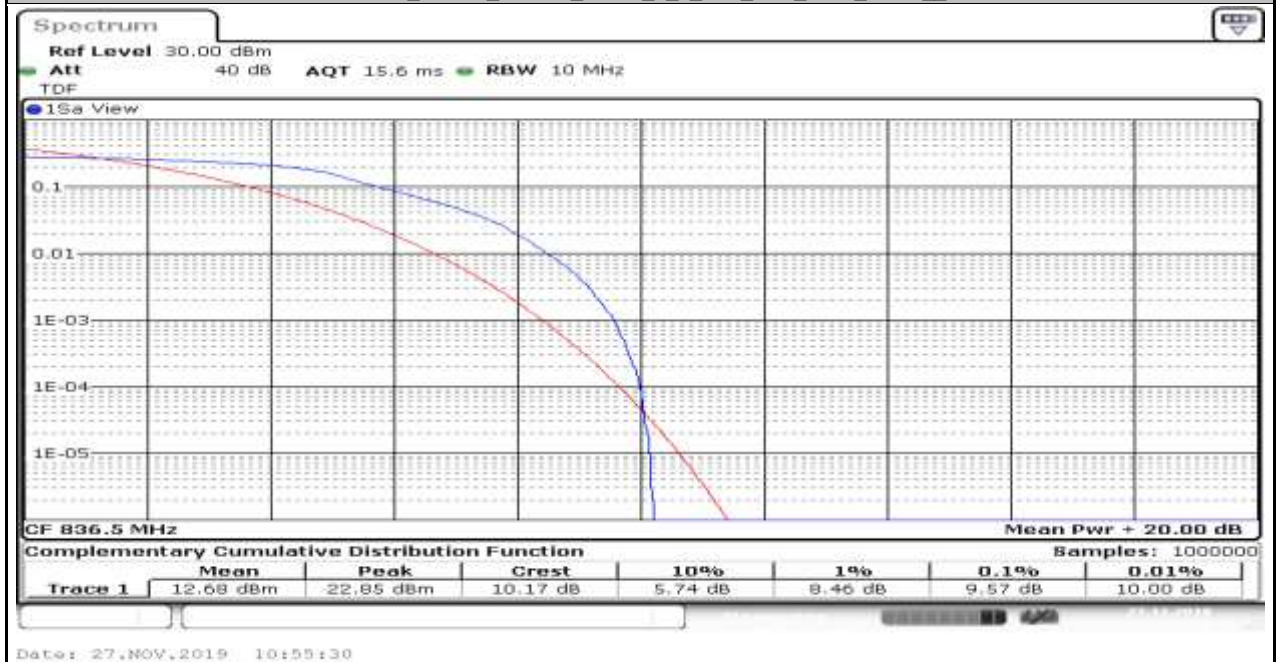
Band26_3MHz_QPSK_26915_6_0_Low_8.35_<=13_PASS_



Band26_1.4MHz_QPSK_26915_6_0_Low_8.46_<=13_PASS_

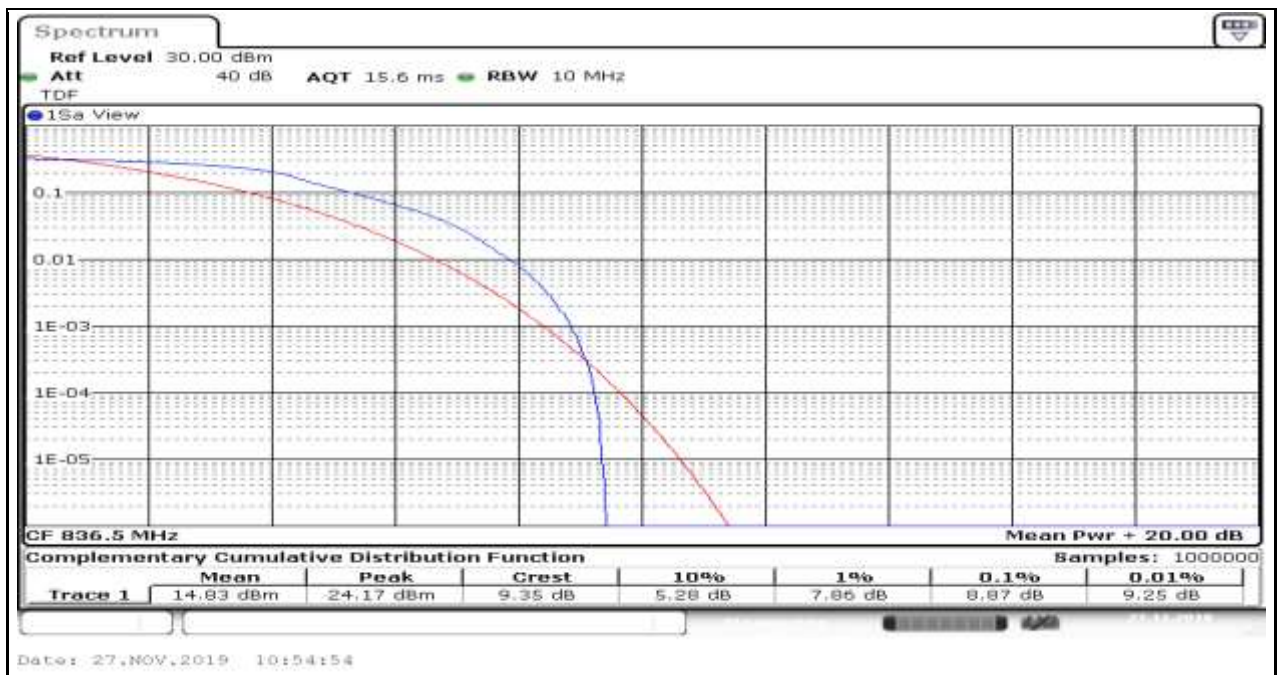


Band26_10MHz_16QAM_26915_6_0_Low_9.57_<=13_PASS_

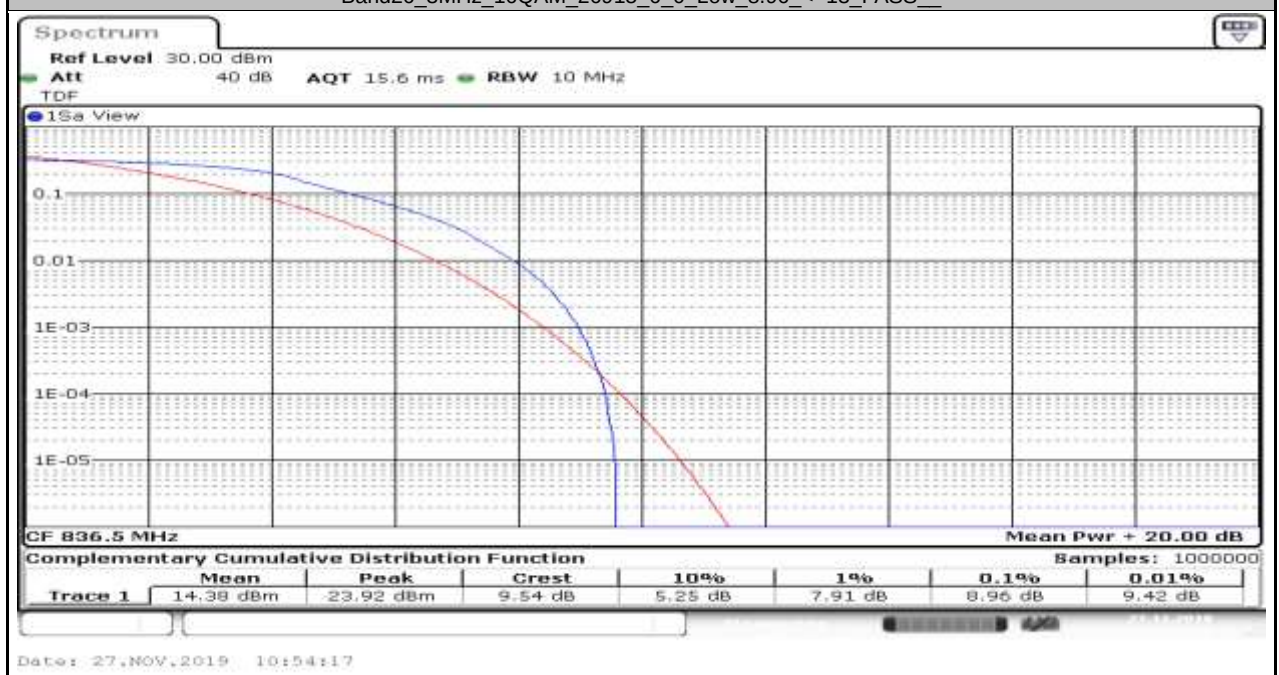


Band26_5MHz_16QAM_26915_6_0_Low_8.87_<=13_PASS_

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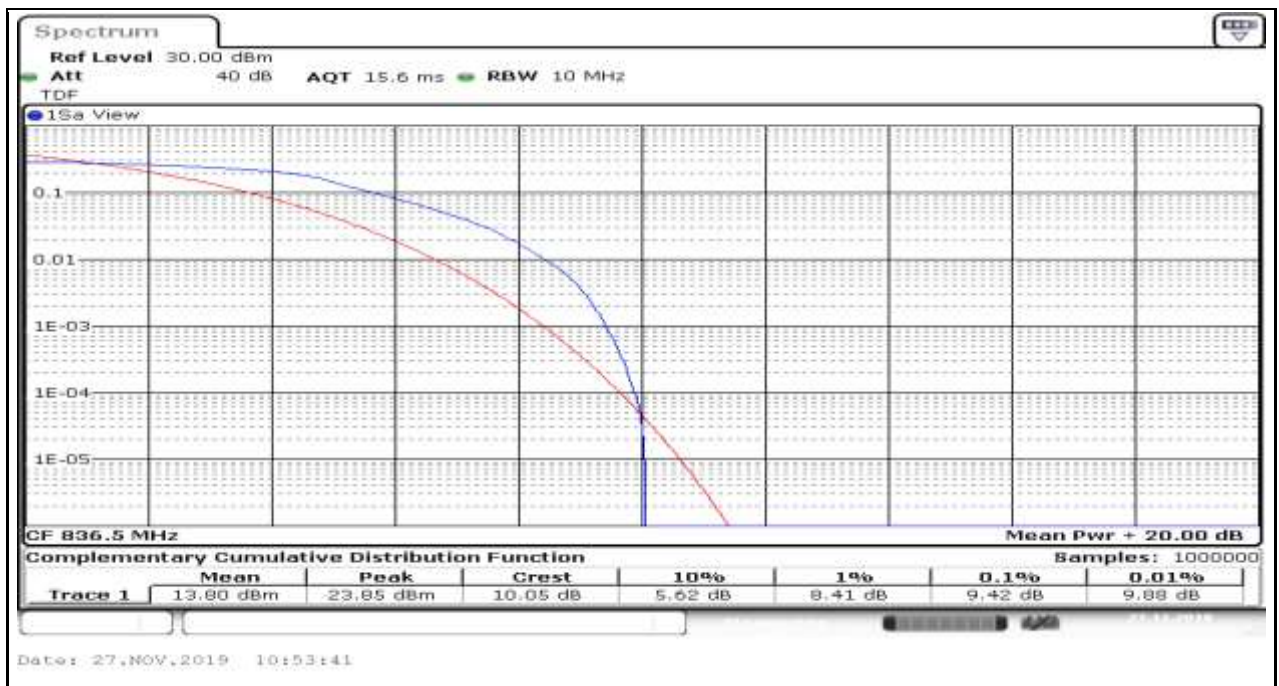


Band26_3MHz_16QAM_26915_6_0_Low_8.96_<=13_PASS__



Band26_1.4MHz_16QAM_26915_6_0_Low_9.42_<=13_PASS__

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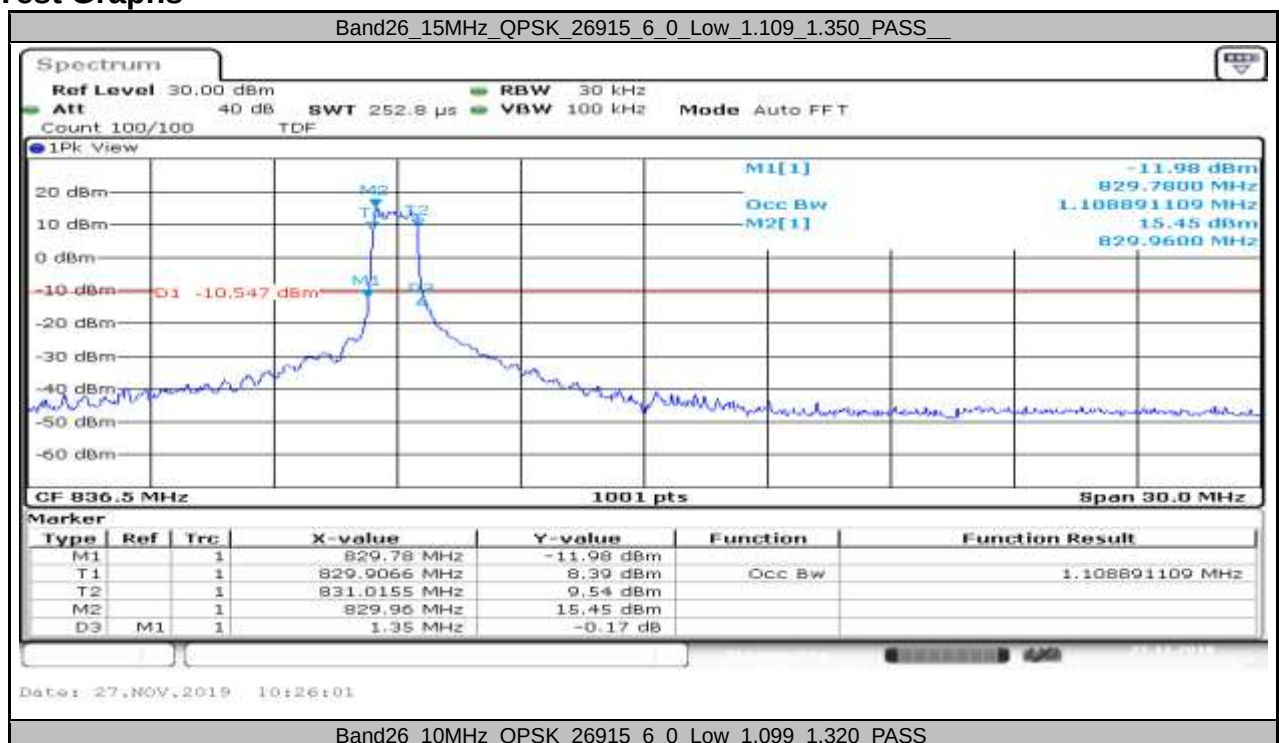


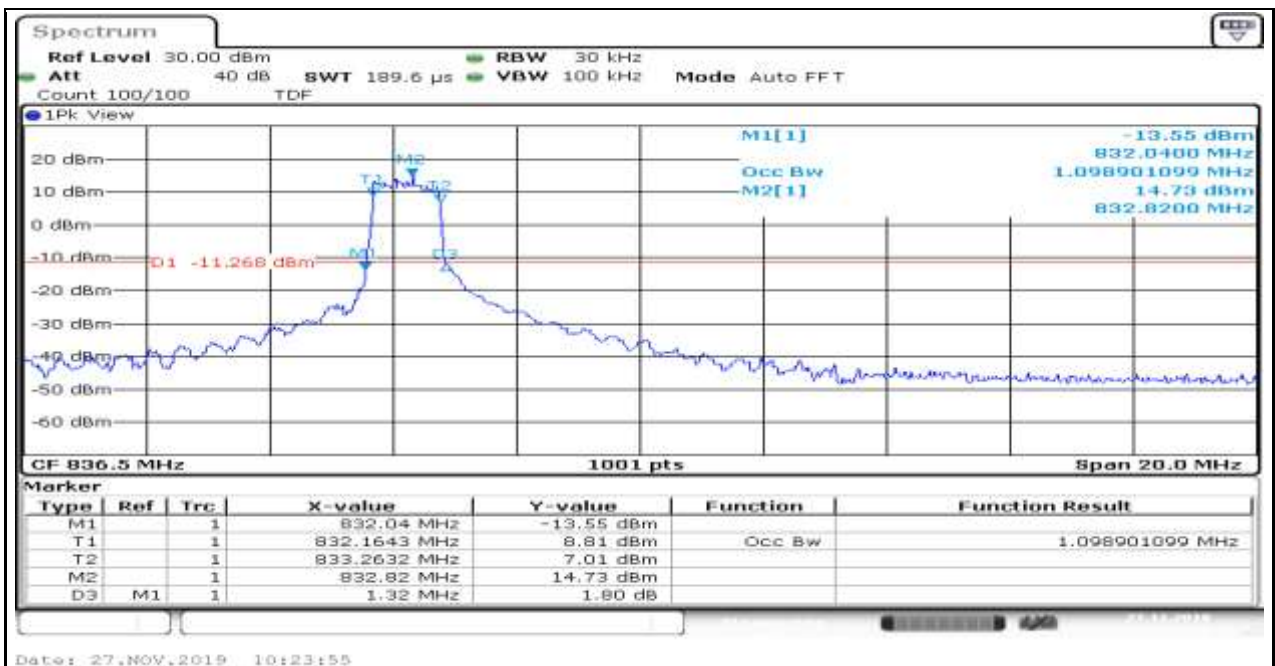
Appendix H.3: 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	15MHz	QPSK	26915	6	0	Low	1.109	1.350	PASS
Band26	10MHz	QPSK	26915	6	0	Low	1.099	1.320	PASS
Band26	5MHz	QPSK	26915	6	0	Low	1.099	1.330	PASS
Band26	3MHz	QPSK	26915	6	0	Low	1.103	1.332	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	1.091	1.272	PASS
Band26	15MHz	16QAM	26915	6	0	Low	1.109	1.350	PASS
Band26	10MHz	16QAM	26915	6	0	Low	1.099	1.320	PASS
Band26	5MHz	16QAM	26915	6	0	Low	1.099	1.330	PASS
Band26	3MHz	16QAM	26915	6	0	Low	1.103	1.326	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	1.1	1.323	PASS

Test Graphs

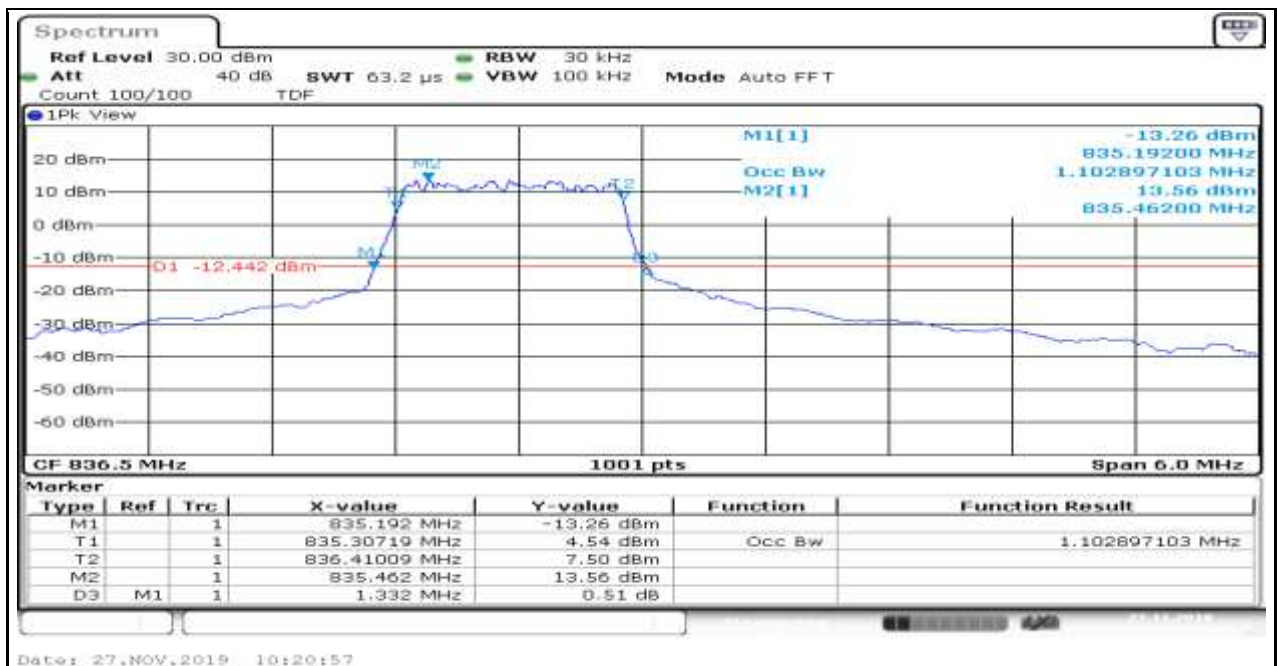




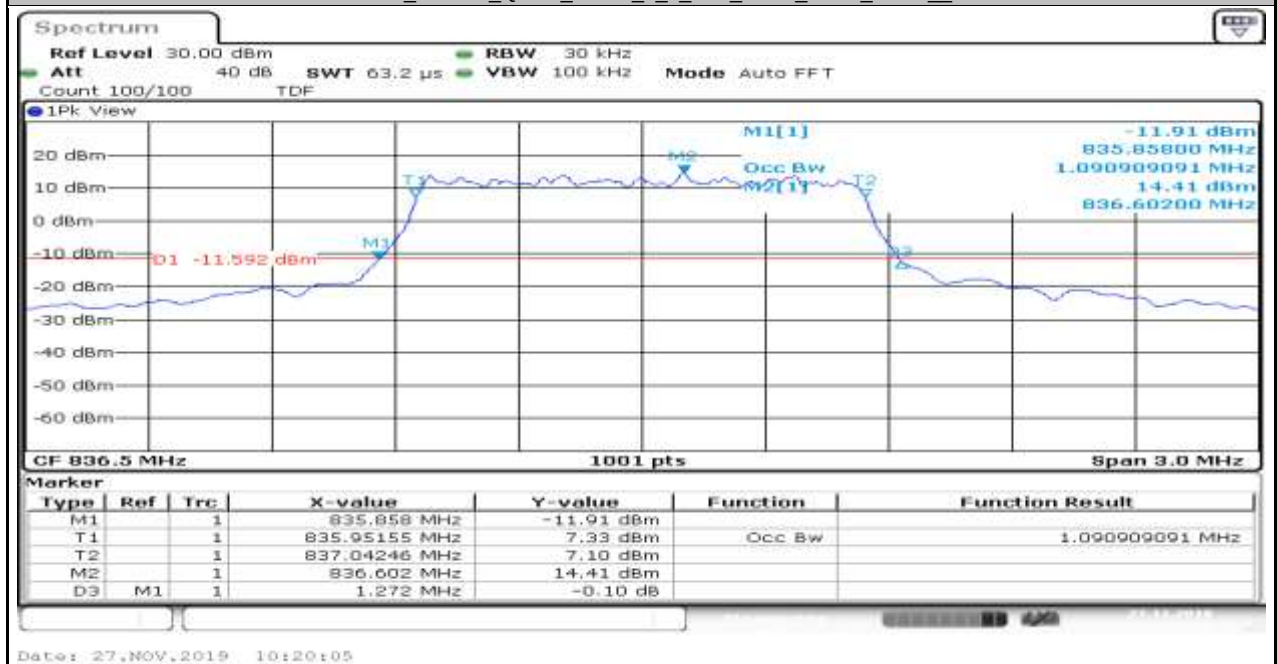
Band26_5MHz_QPSK_26915_6_0_Low_1.099_1.330_PASS_



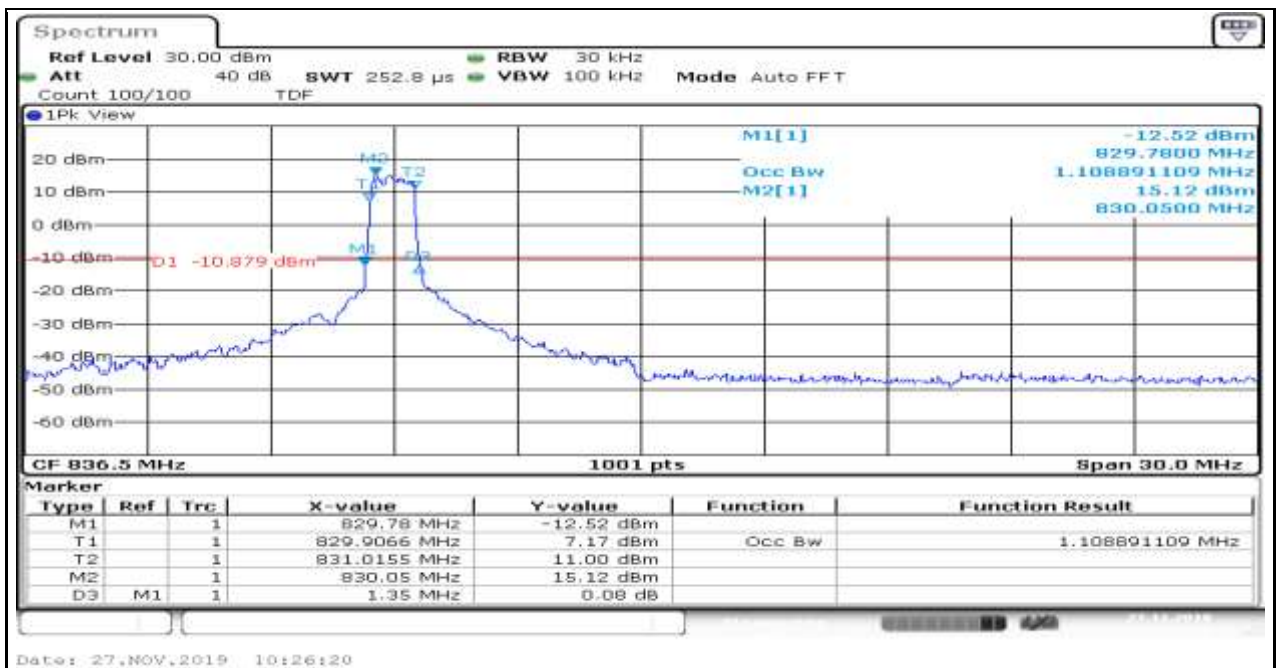
Band26_3MHz_QPSK_26915_6_0_Low_1.103_1.332_PASS_



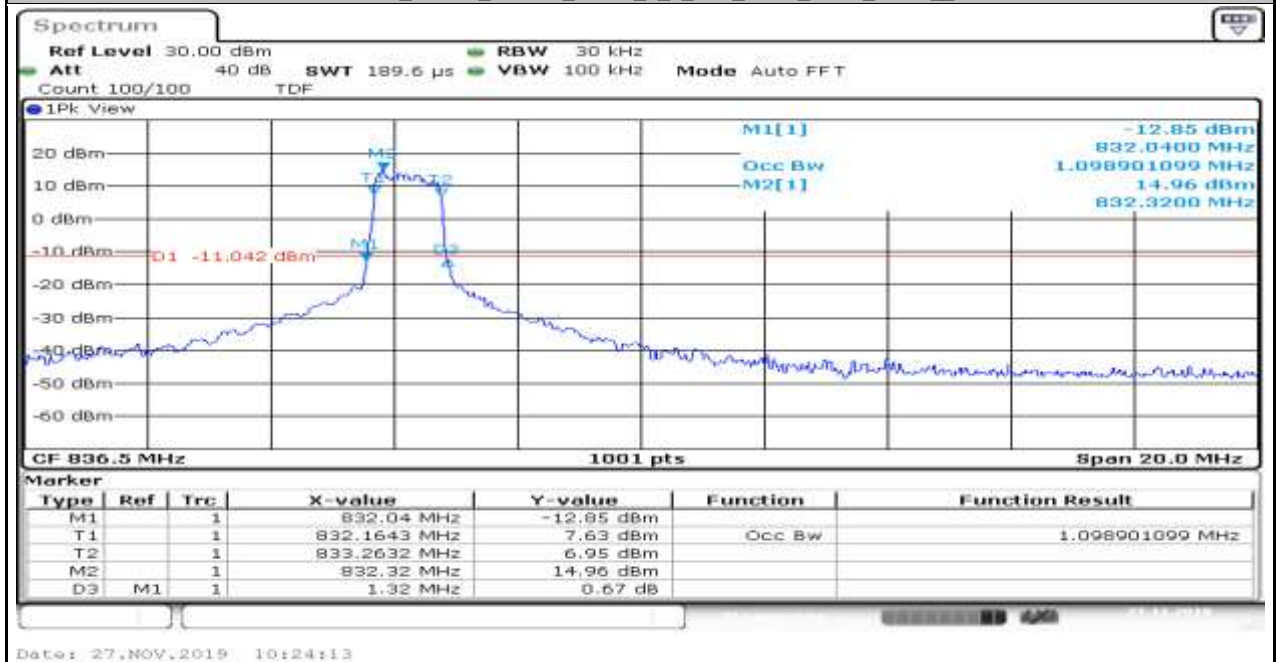
Band26_1.4MHz_QPSK_26915_6_0_Low_1.091_1.272_PASS_



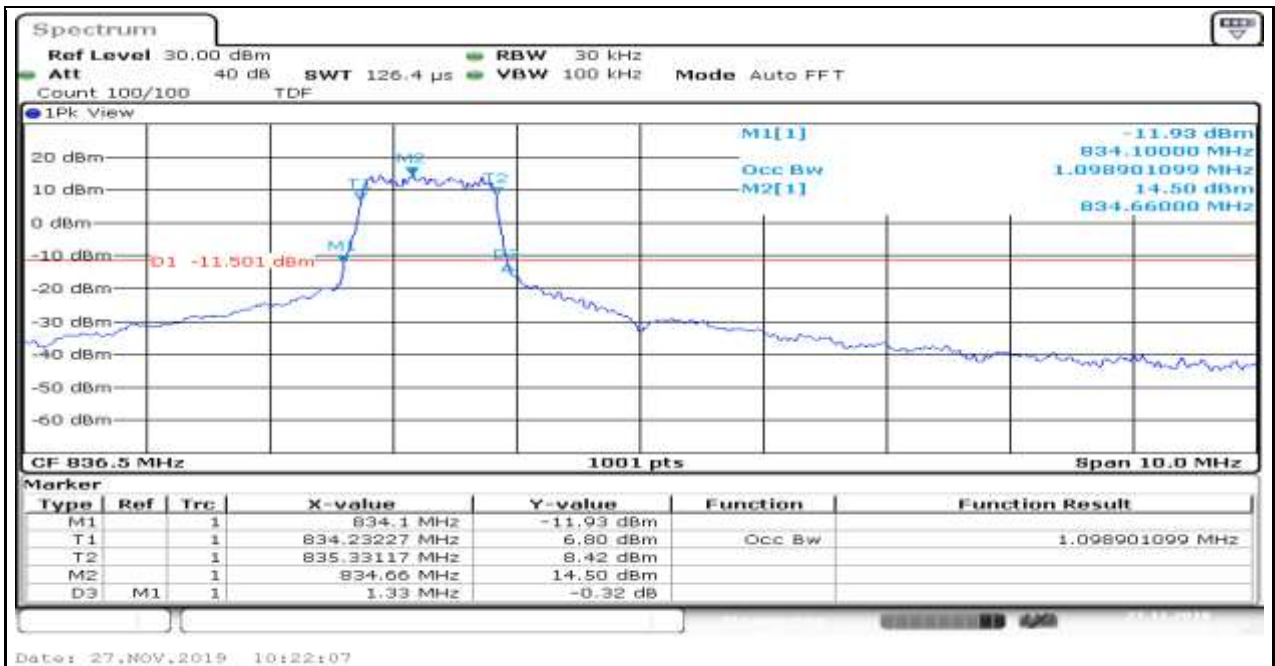
Band26_15MHz_16QAM_26915_6_0_Low_1.109_1.350_PASS_



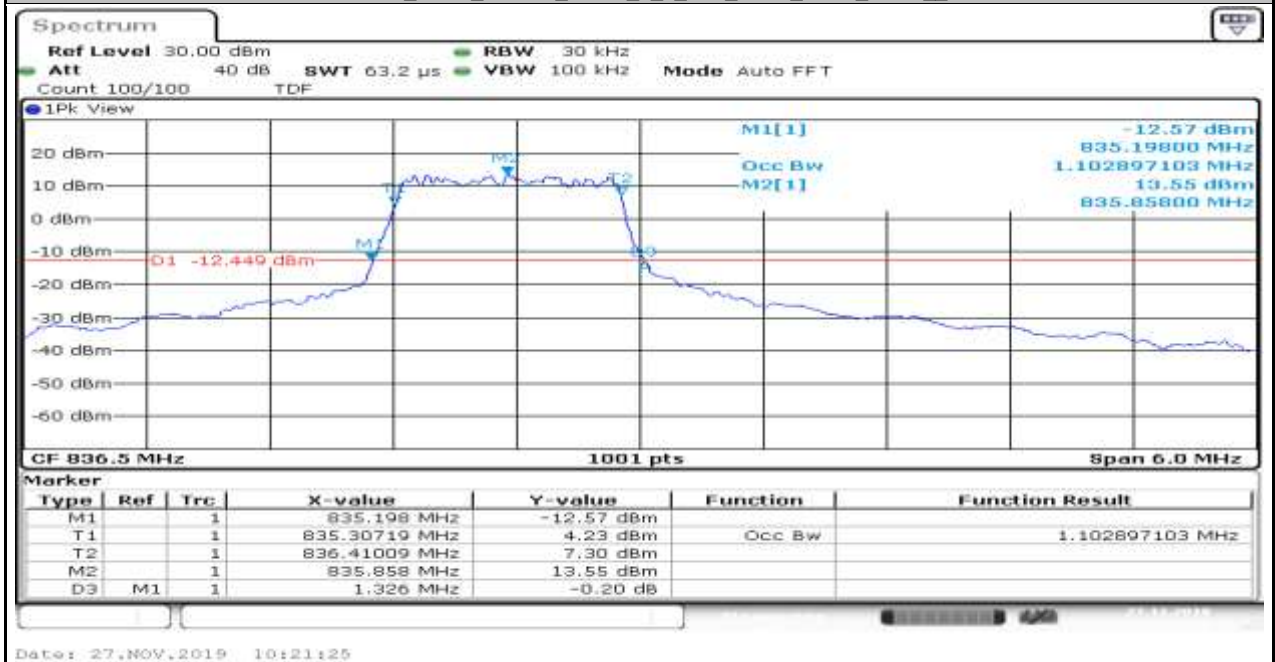
Band26_10MHz_16QAM_26915_6_0_Low_1.099_1.320_PASS_



Band26_5MHz_16QAM_26915_6_0_Low_1.099_1.330_PASS_

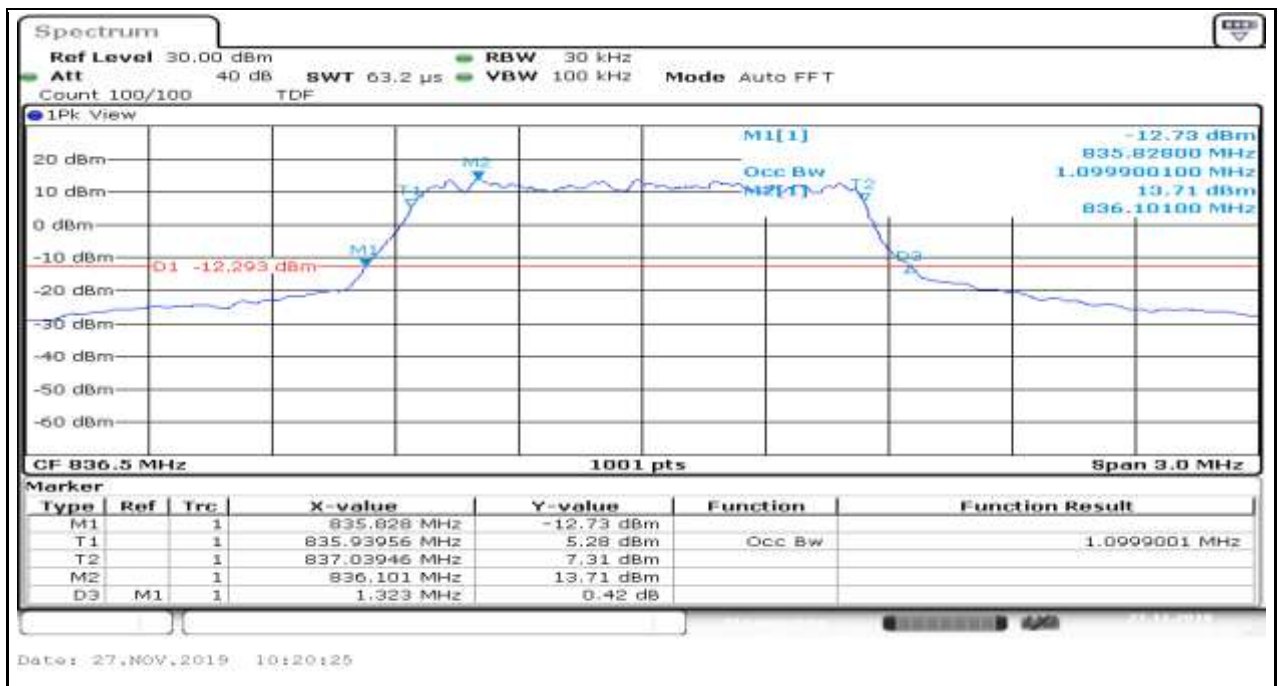


Band26_3MHz_16QAM_26915_6_0_Low_1.103_1.326_PASS_



Band26_1.4MHz_16QAM_26915_6_0_Low_1.1_1.323_PASS_

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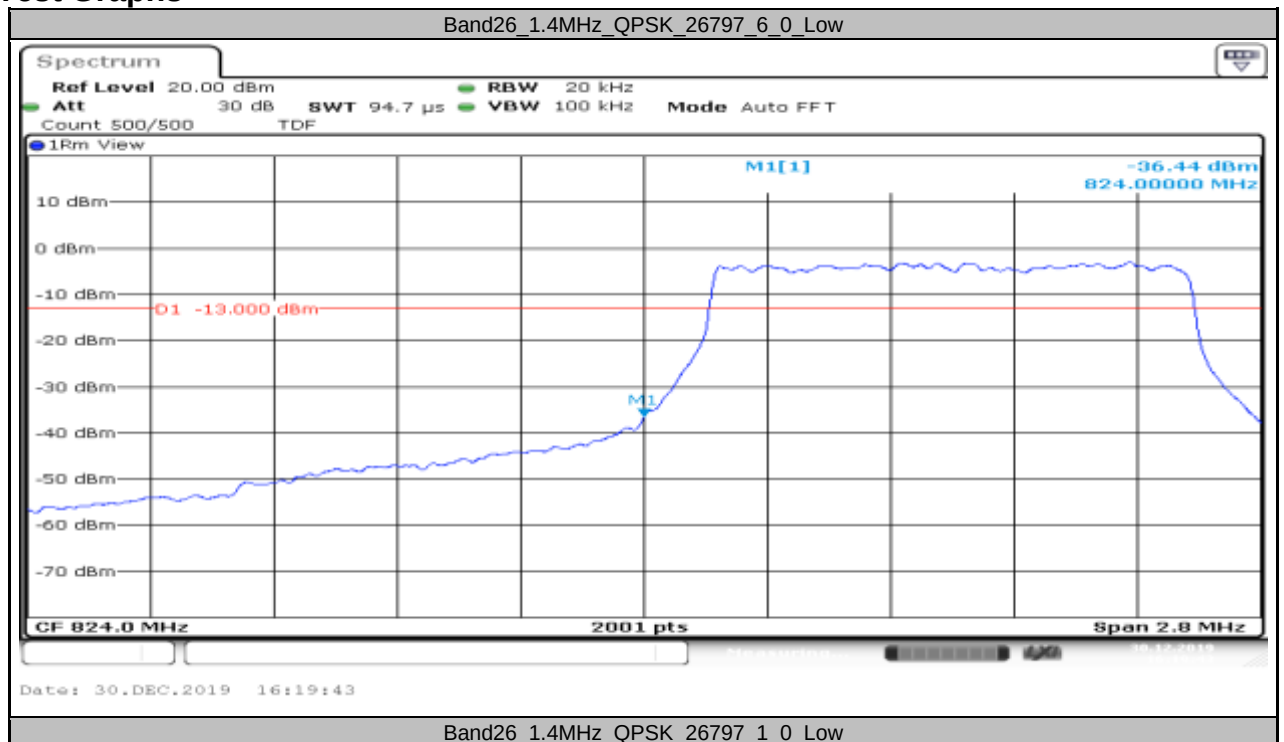


Appendix H.4: Band Edge for M1

Test Result

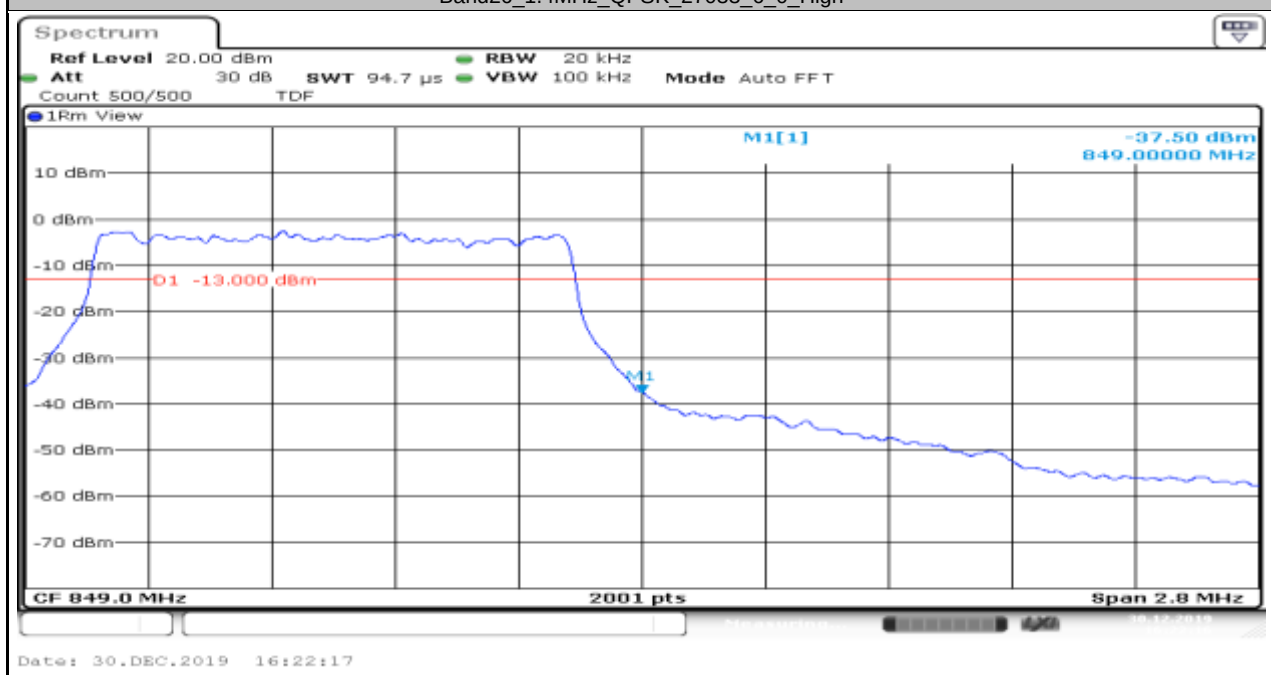
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result (dBm)	Verdict
Band26	1.4MHz	QPSK	26797	6	0	Low	-36.44	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	-33.14	PASS
Band26	1.4MHz	QPSK	27033	6	0	High	-37.50	PASS
Band26	1.4MHz	QPSK	27033	1	5	High	-49.19	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	-36.12	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	-33.42	PASS
Band26	1.4MHz	16QAM	27033	6	0	High	-38.83	PASS
Band26	1.4MHz	16QAM	27033	1	5	High	-49.27	PASS

Test Graphs



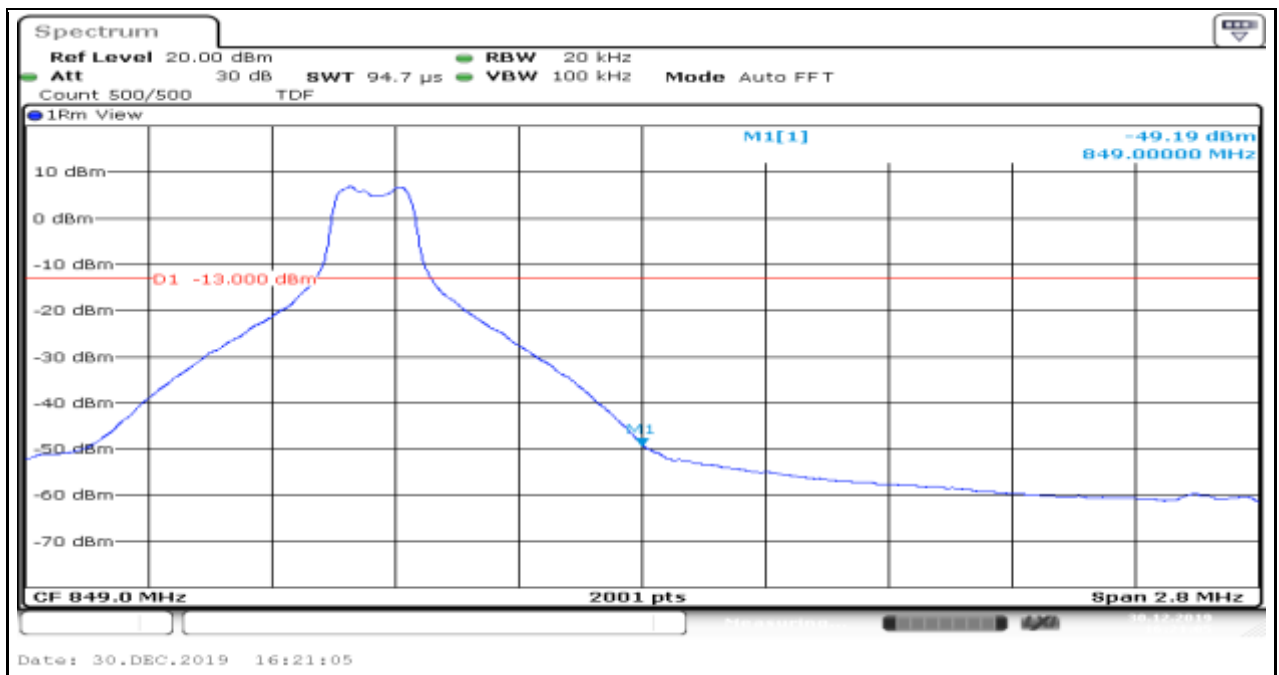


Band26_1.4MHz_QPSK_27033_6_0_High

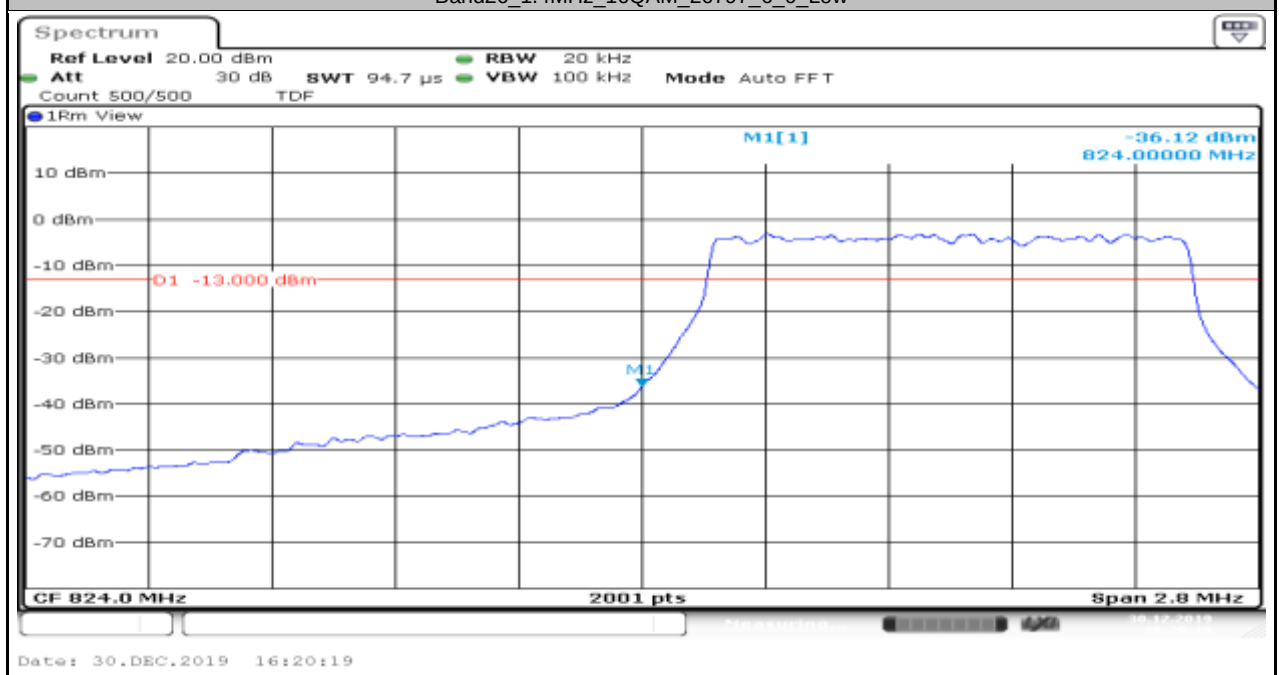


Band26_1.4MHz_QPSK_27033_1_5_High

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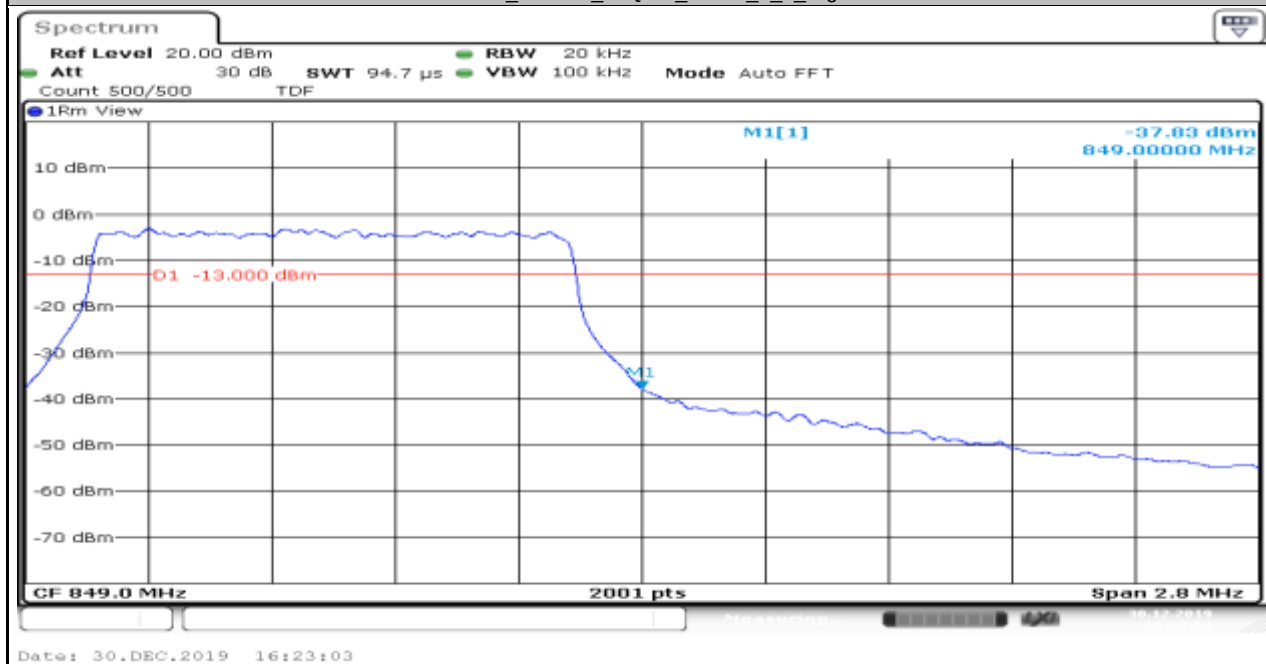
Band26_1.4MHz_16QAM_26797_6_0_Low



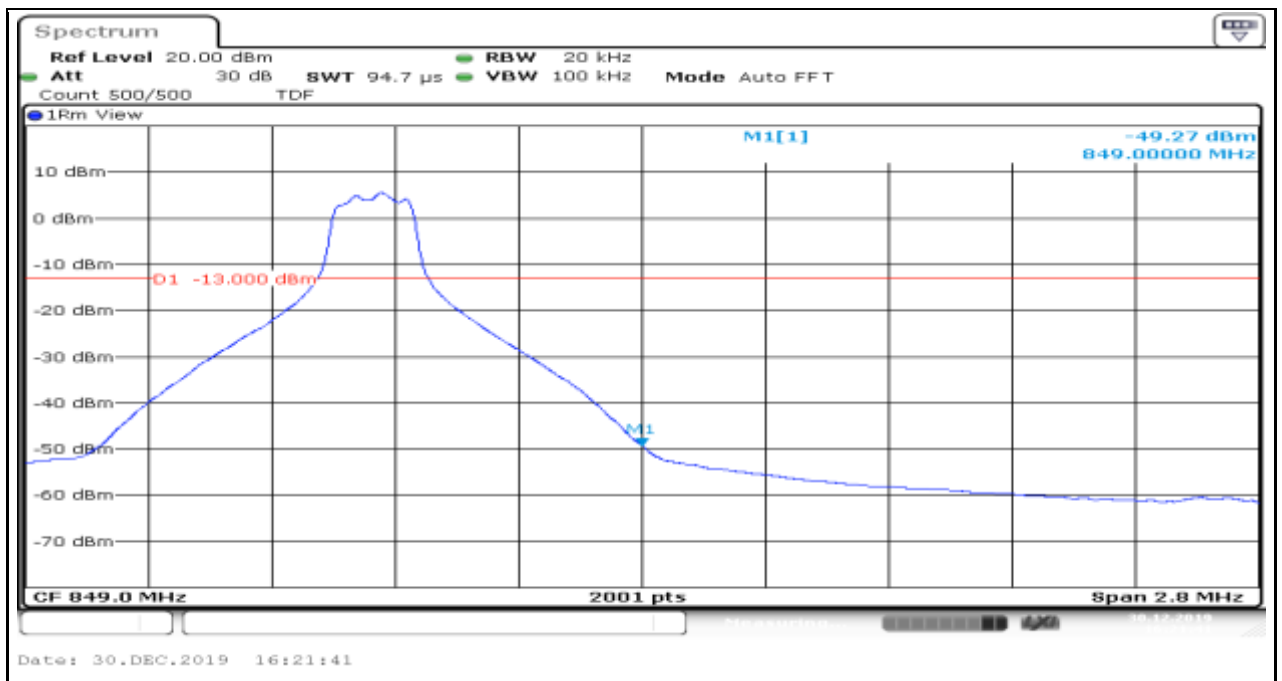
Band26_1.4MHz_16QAM_26797_1_0_Low



Band26_1.4MHz_16QAM_27033_6_0_High



Band26_1.4MHz_16QAM_27033_1_5_High



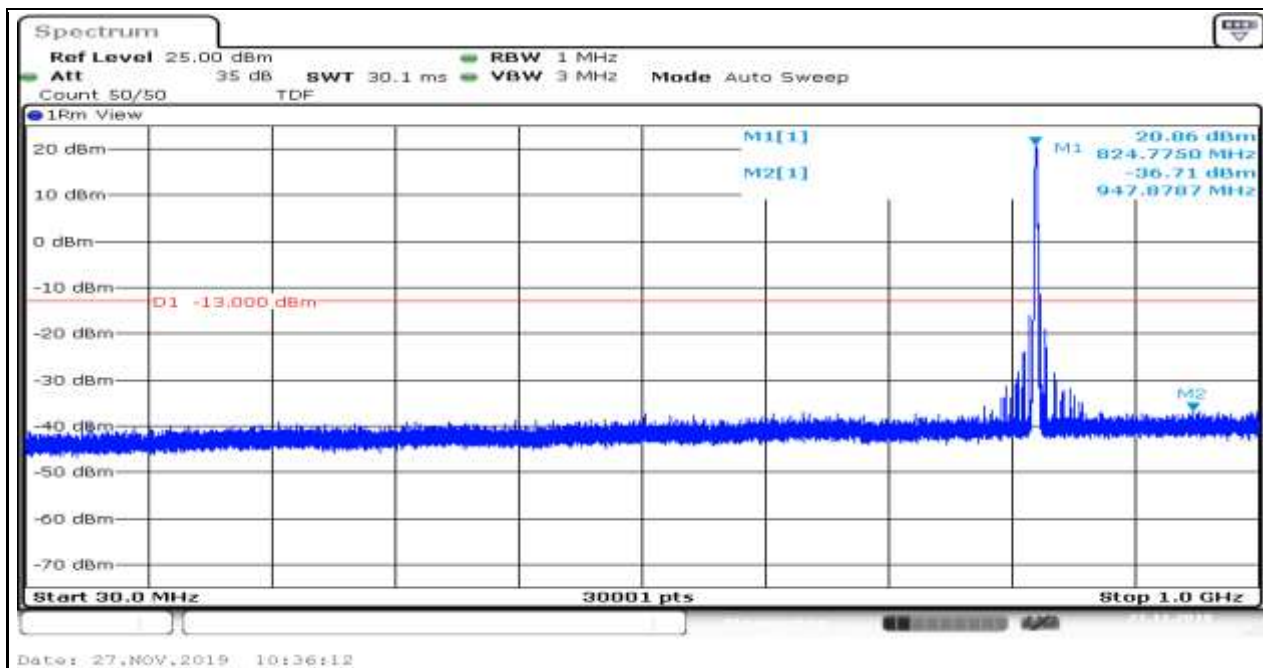
Appendix H.5: Conducted Spurious Emission for M1

Test Result

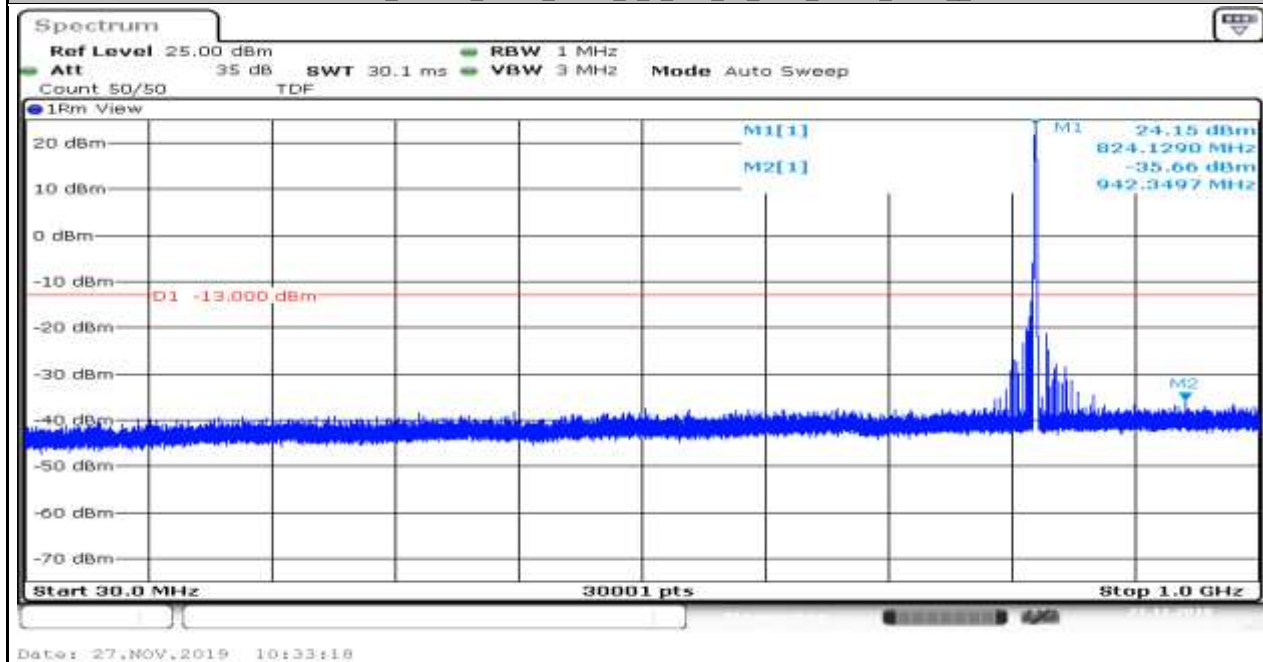
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band26	1.4MHz	QPSK	26797	6	0	Low	30	1000	-36.71	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	30	1000	-35.66	PASS
Band26	1.4MHz	QPSK	26797	6	0	Low	12000	26500	-42.07	PASS
Band26	1.4MHz	QPSK	26797	6	0	Low	5000	12000	-48.1	PASS
Band26	1.4MHz	QPSK	26797	6	0	Low	1000	5000	-38.57	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	12000	26500	-41.89	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	1000	5000	-38.65	PASS
Band26	1.4MHz	QPSK	26797	1	0	Low	5000	12000	-47.88	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	12000	26500	-41.95	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	1000	5000	-38.57	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	5000	12000	-48.07	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	12000	26500	-41.94	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	1000	5000	-38.42	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	30	1000	-36.08	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	5000	12000	-47.86	PASS
Band26	1.4MHz	QPSK	26915	6	0	Low	30	1000	-36.64	PASS
Band26	1.4MHz	QPSK	27033	1	5	Low	12000	26500	-41.9	PASS
Band26	1.4MHz	QPSK	27033	6	0	Low	12000	26500	-41.97	PASS
Band26	1.4MHz	QPSK	27033	6	0	Low	5000	12000	-48	PASS
Band26	1.4MHz	QPSK	27033	6	0	Low	30	1000	-36.57	PASS
Band26	1.4MHz	QPSK	27033	1	5	Low	1000	5000	-38.67	PASS
Band26	1.4MHz	QPSK	27033	1	5	Low	5000	12000	-48.05	PASS
Band26	1.4MHz	QPSK	27033	1	5	Low	30	1000	-35.33	PASS
Band26	1.4MHz	QPSK	27033	6	0	Low	1000	5000	-38.56	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	1000	5000	-38.6	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	5000	12000	-47.89	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	12000	26500	-42.13	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	12000	26500	-41.97	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	5000	12000	-47.95	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	30	1000	-35.41	PASS
Band26	1.4MHz	16QAM	26797	1	0	Low	30	1000	-35.93	PASS
Band26	1.4MHz	16QAM	26797	6	0	Low	1000	5000	-38.58	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	12000	26500	-41.8	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	1000	5000	-38.62	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	12000	26500	-42.04	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	30	1000	-36.38	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	1000	5000	-38.35	PASS
Band26	1.4MHz	16QAM	26915	6	0	Low	5000	12000	-47.96	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	30	1000	-36.58	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	5000	12000	-48.03	PASS
Band26	1.4MHz	16QAM	27033	6	0	Low	5000	12000	-47.92	PASS
Band26	1.4MHz	16QAM	27033	6	0	Low	1000	5000	-38.59	PASS
Band26	1.4MHz	16QAM	27033	6	0	Low	30	1000	-34.88	PASS
Band26	1.4MHz	16QAM	27033	1	5	Low	12000	26500	-41.91	PASS
Band26	1.4MHz	16QAM	27033	1	5	Low	5000	12000	-48	PASS
Band26	1.4MHz	16QAM	27033	1	5	Low	30	1000	-36.54	PASS
Band26	1.4MHz	16QAM	27033	6	0	Low	12000	26500	-41.99	PASS
Band26	1.4MHz	16QAM	27033	1	5	Low	1000	5000	-38.6	PASS

Test Graphs

Band26_1.4MHz_QPSK_26797_6_0_Low_30_1000_-36.71_PASS

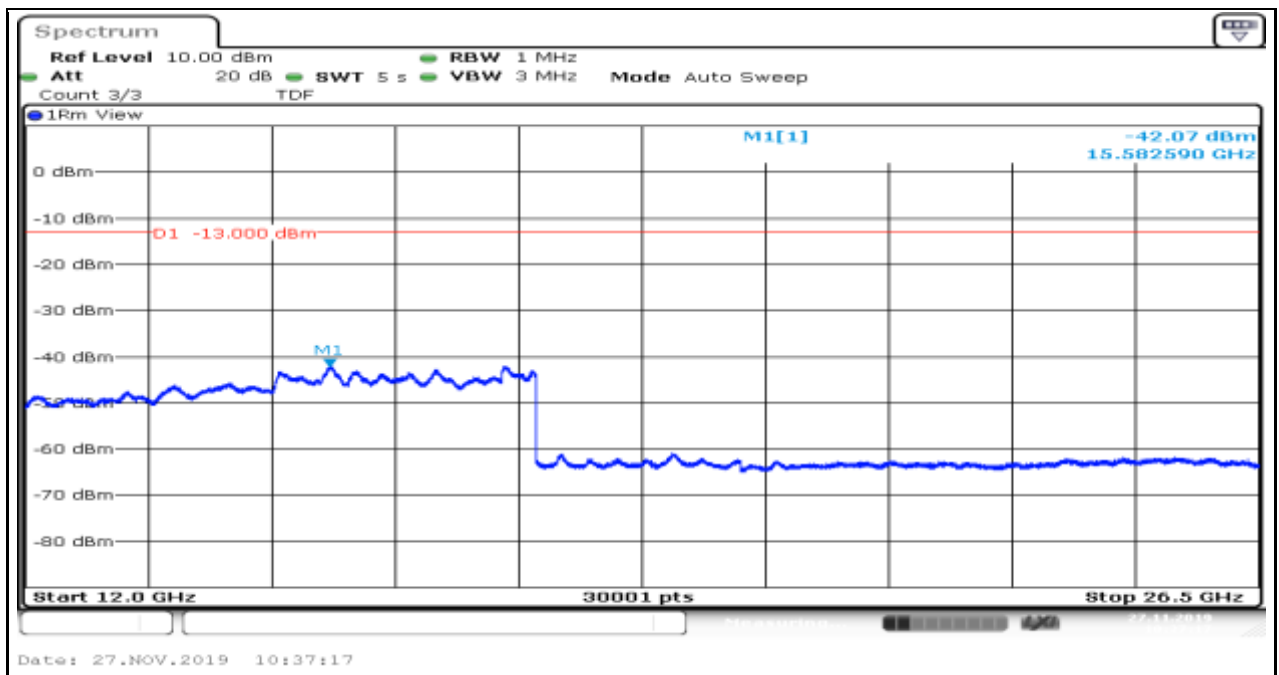


Band26_1.4MHz_QPSK_26797_1_0_Low_30_1000_-35.66_PASS_

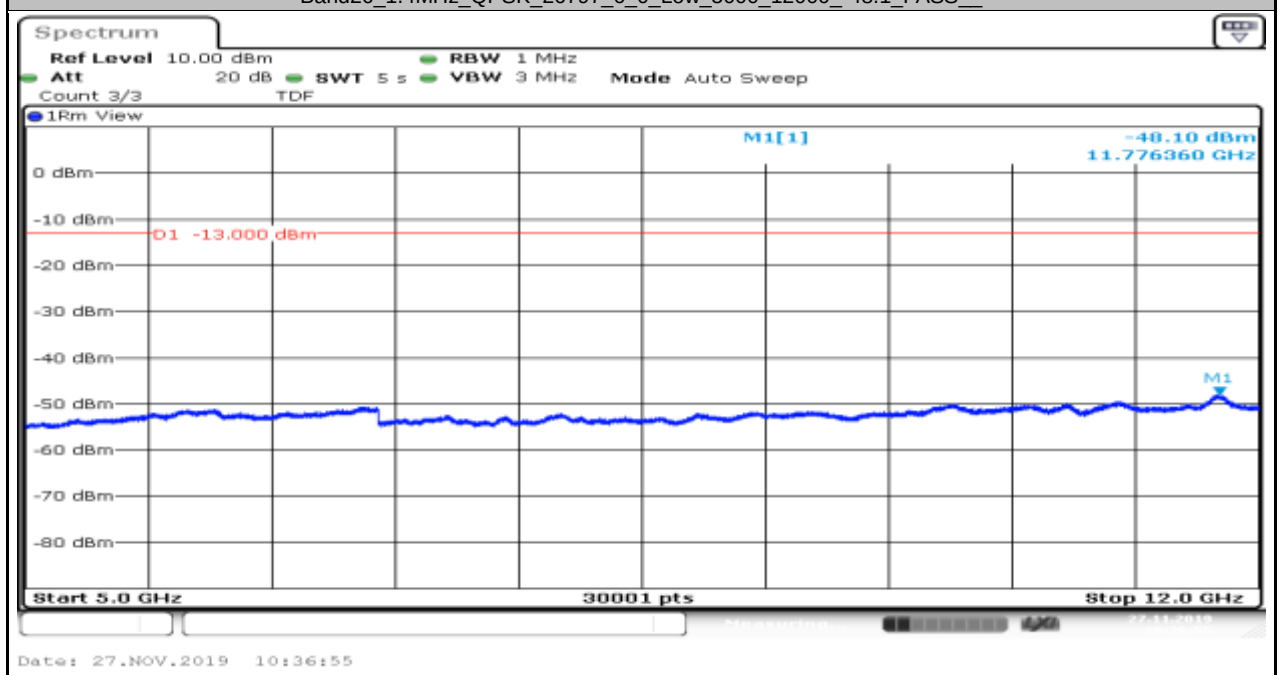


Band26_1.4MHz_QPSK_26797_6_0_Low_12000_26500_-42.07_PASS_

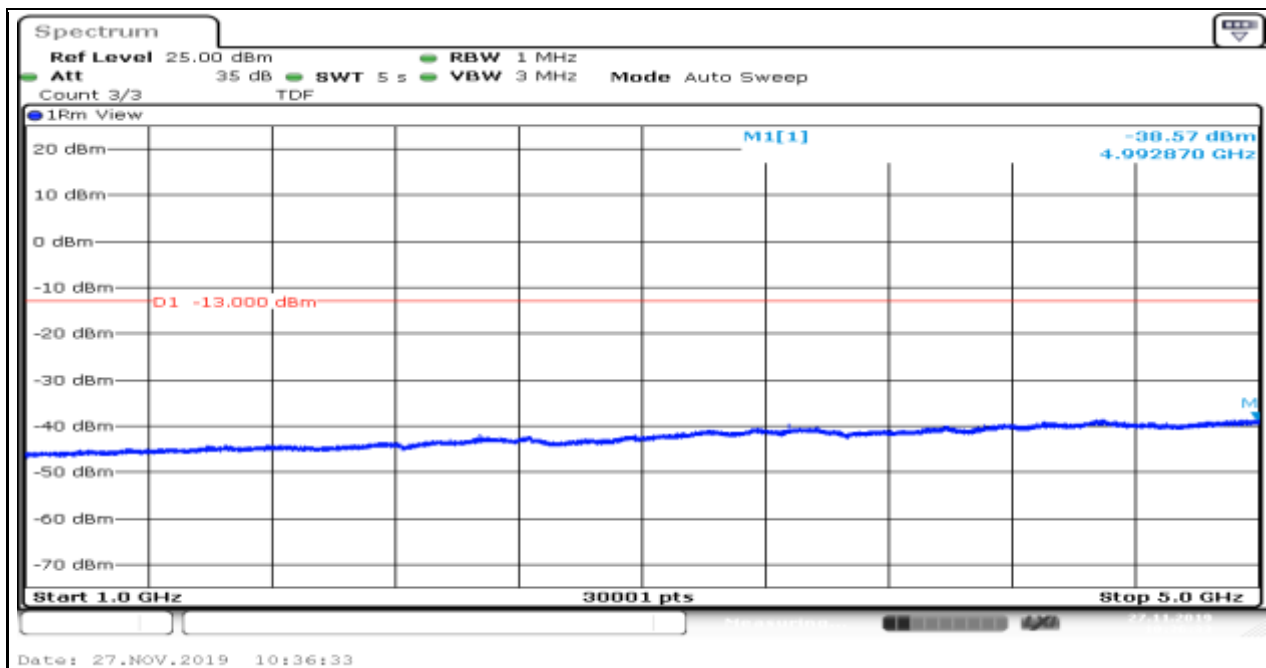
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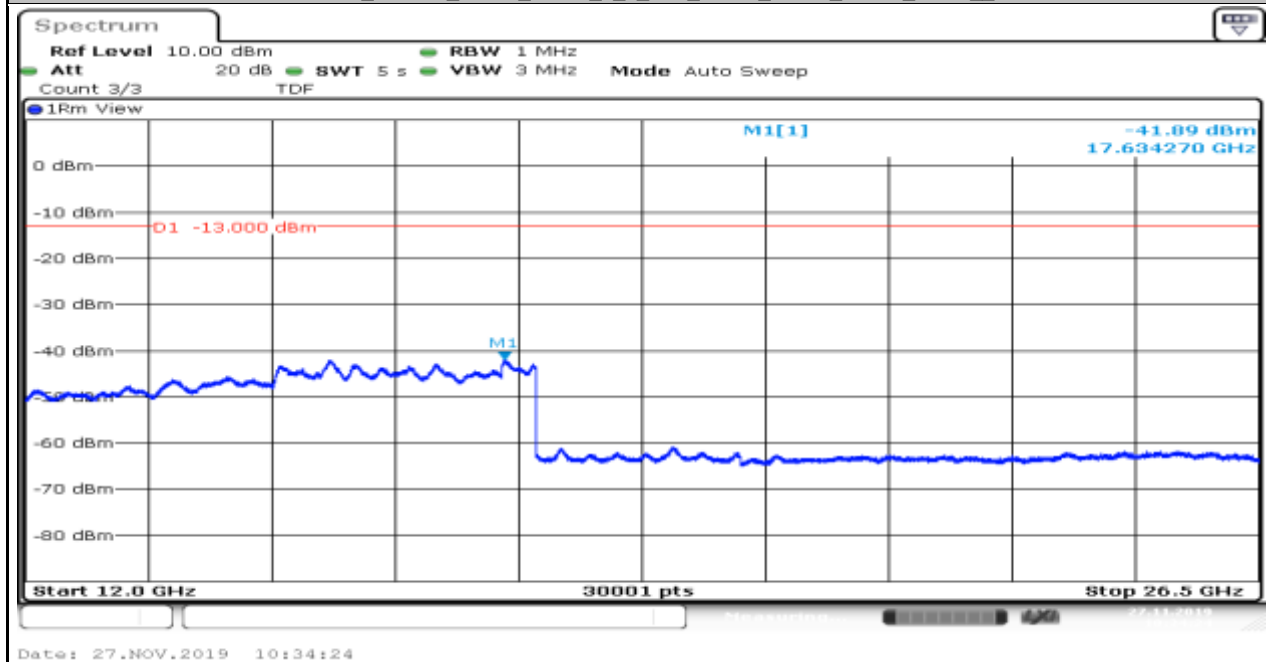
Band26_1.4MHz_QPSK_26797_6_0_Low_5000_12000_-48.1_PASS_



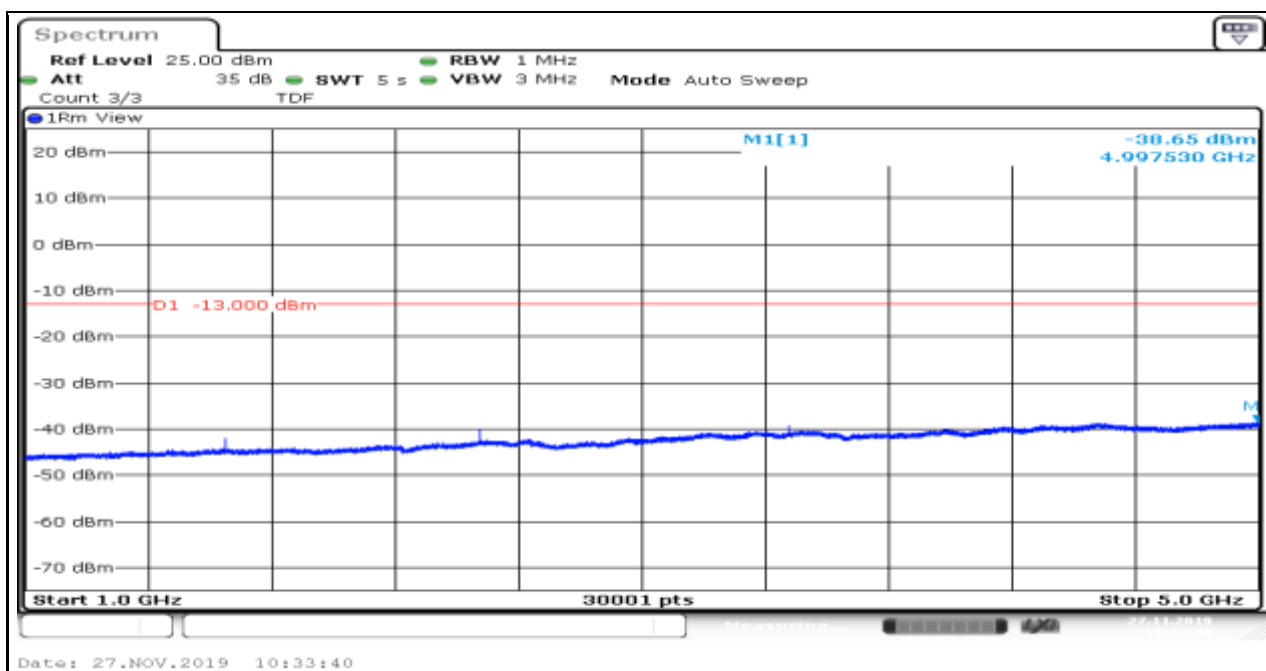
Band26_1.4MHz_QPSK_26797_6_0_Low_1000_5000_-38.57_PASS_



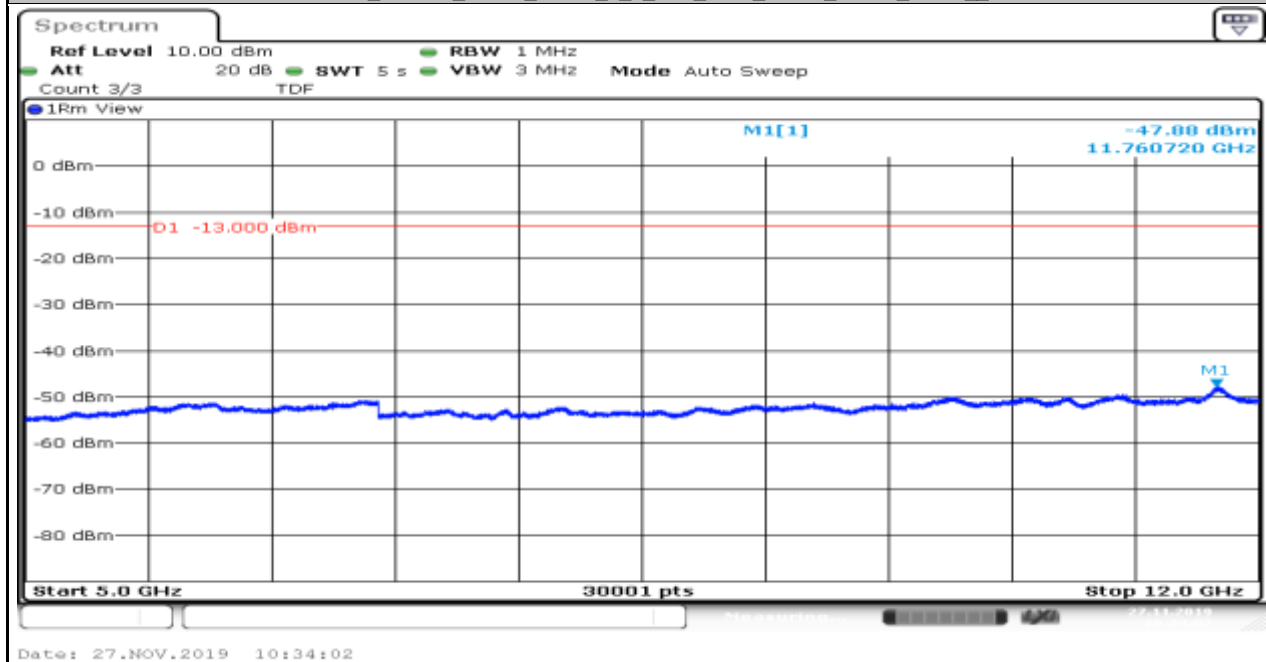
Band26_1.4MHz_QPSK_26797_1_0_Low_12000_26500_-41.89_PASS_



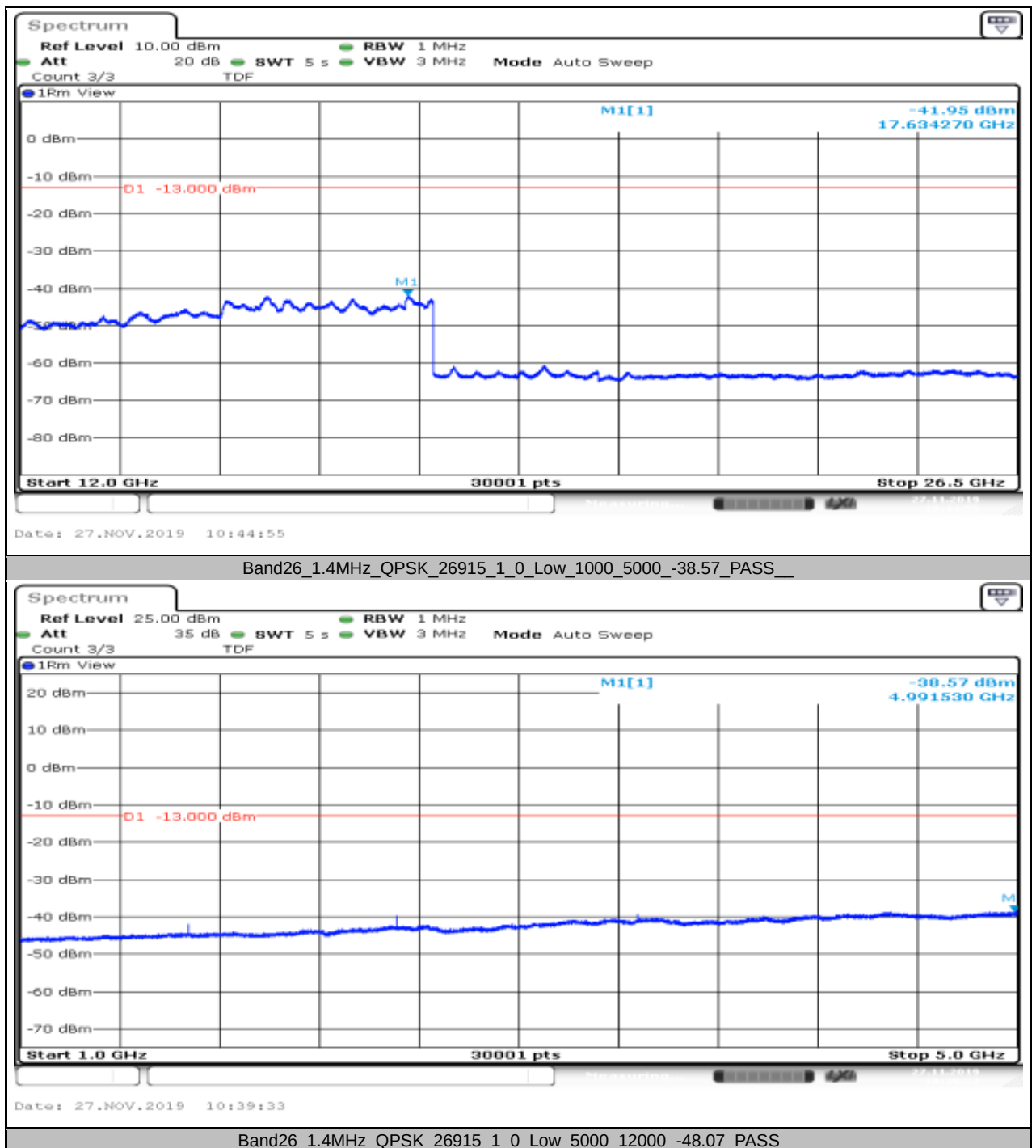
Band26_1.4MHz_QPSK_26797_1_0_Low_1000_5000_-38.65_PASS_

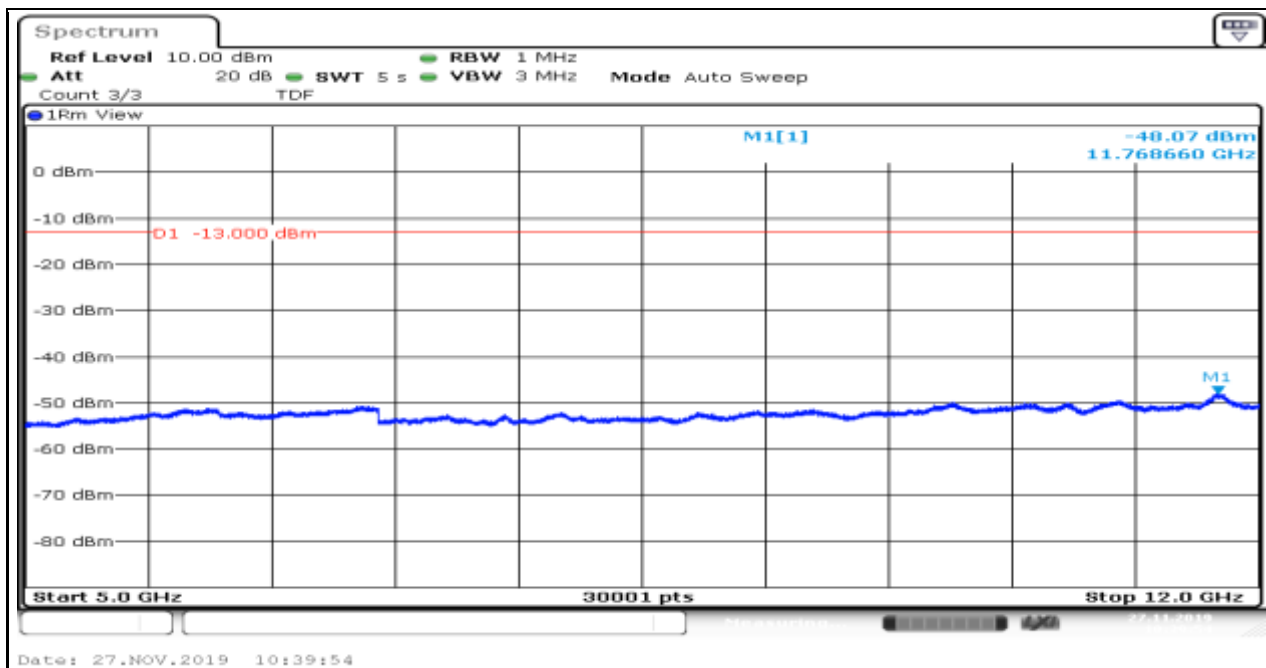


Band26_1.4MHz_QPSK_26797_1_0_Low_5000_12000_-47.88_PASS_

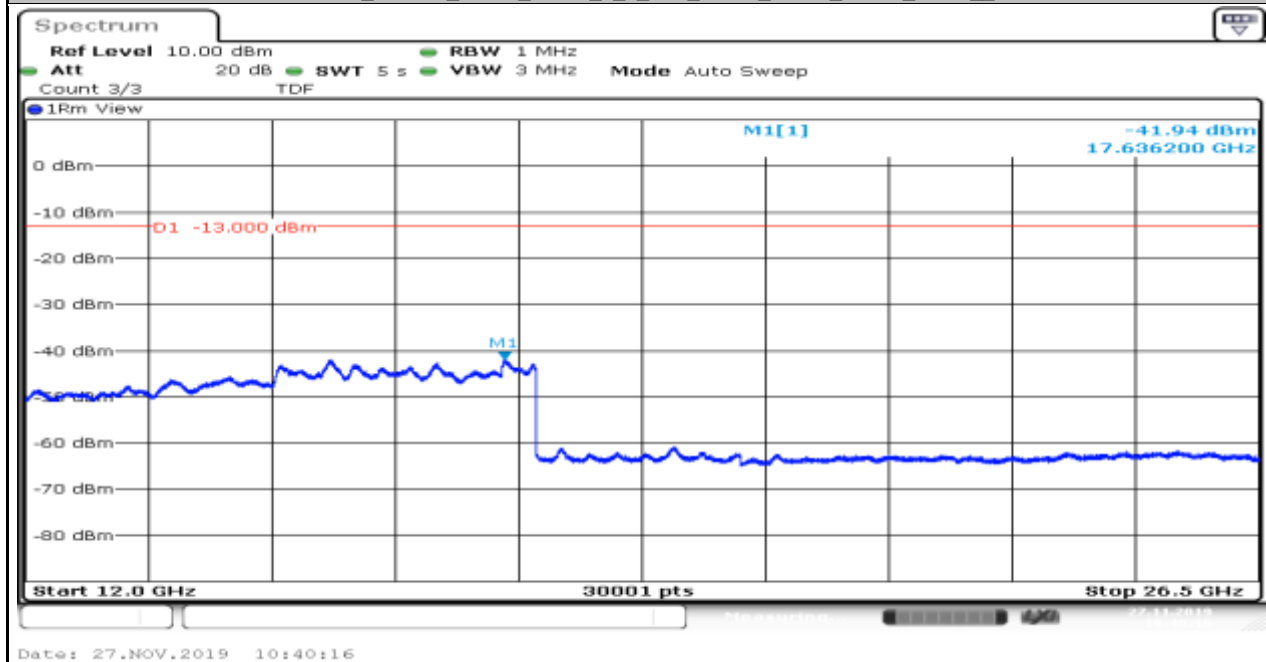


Band26_1.4MHz_QPSK_26915_6_0_Low_12000_26500_-41.95_PASS_

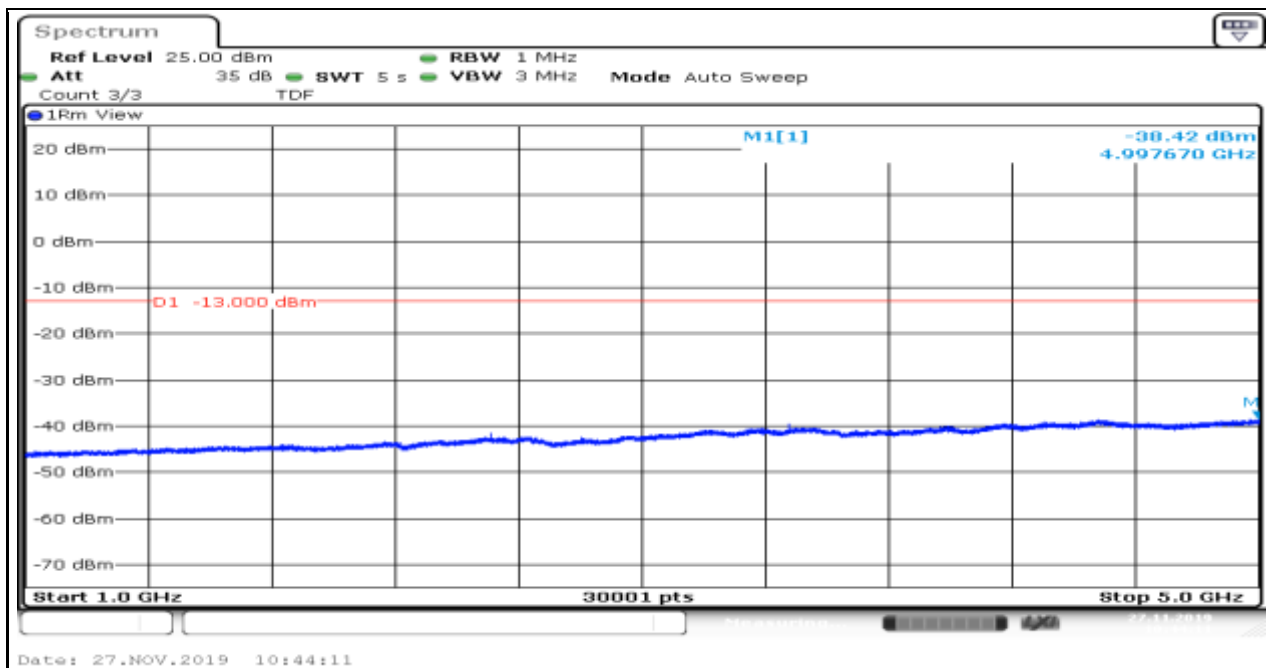




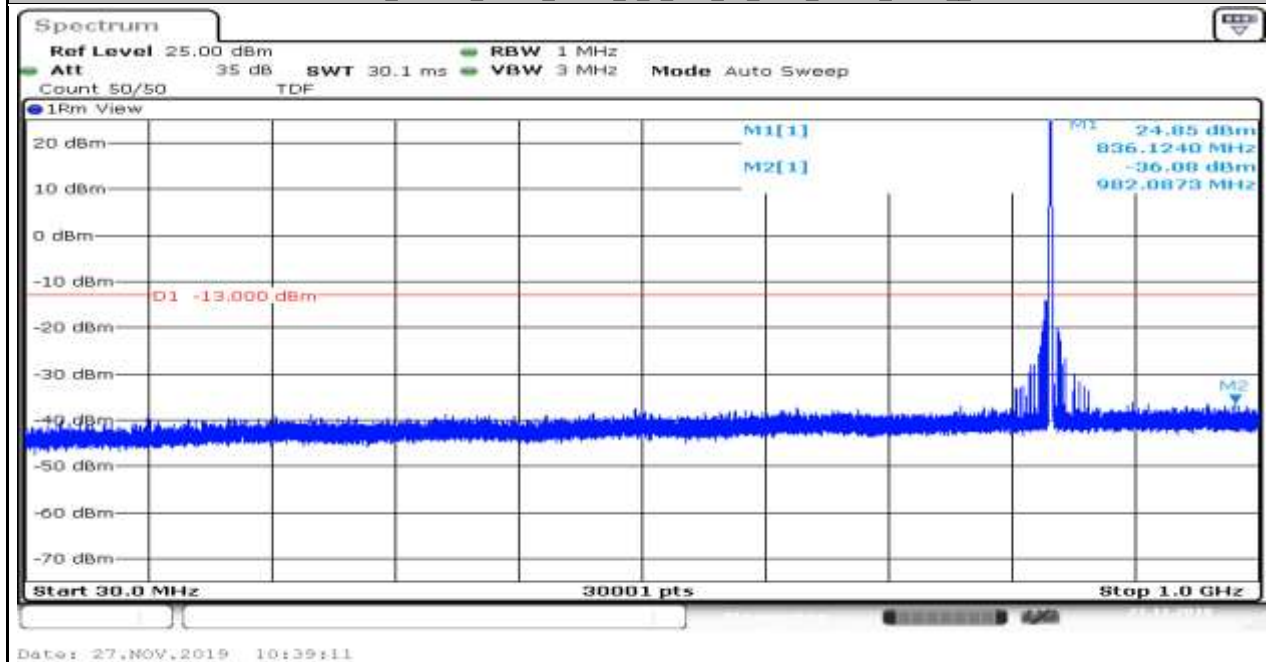
Band26_1.4MHz_QPSK_26915_1_0_Low_12000_26500_-41.94_PASS_



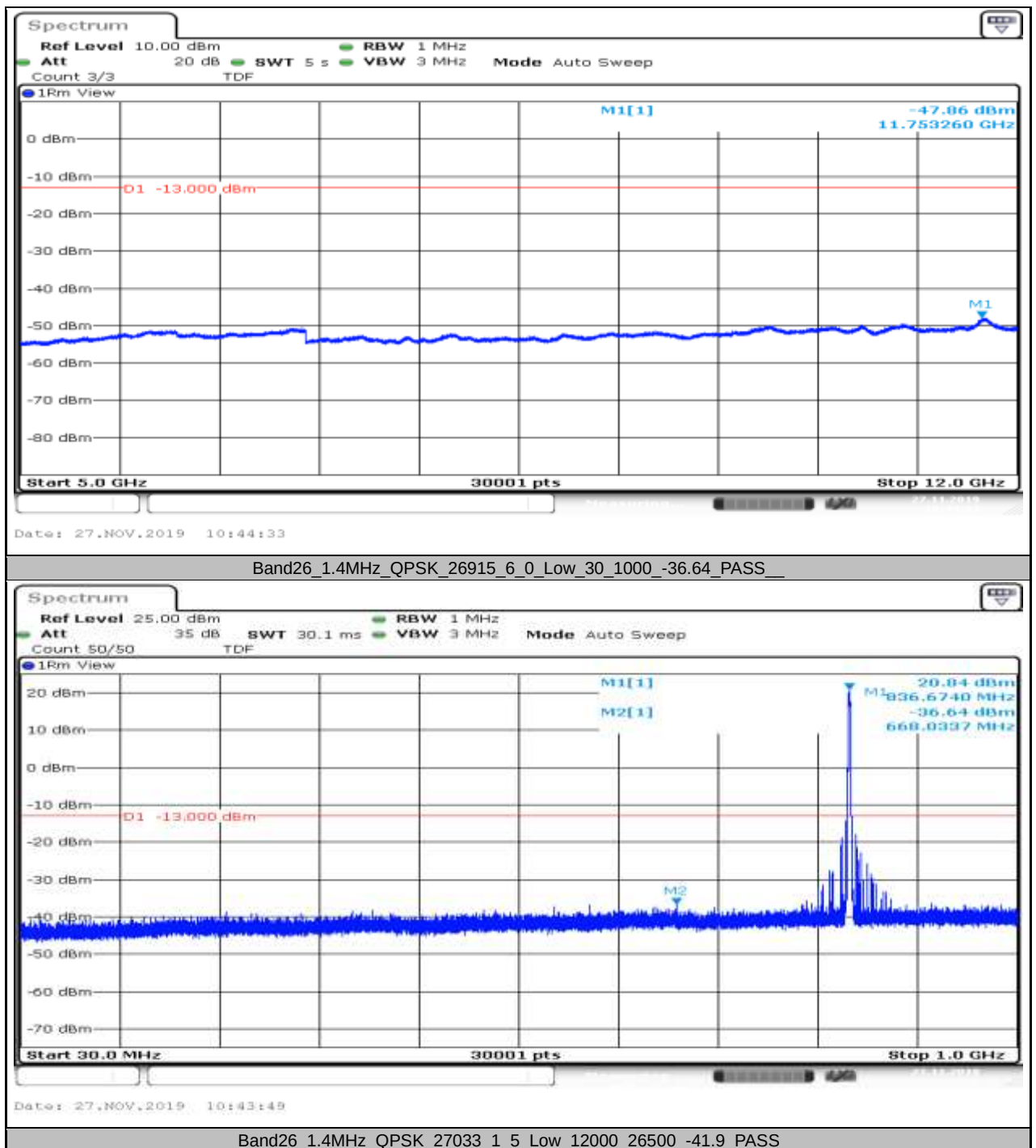
Band26_1.4MHz_QPSK_26915_6_0_Low_1000_5000_-38.42_PASS_

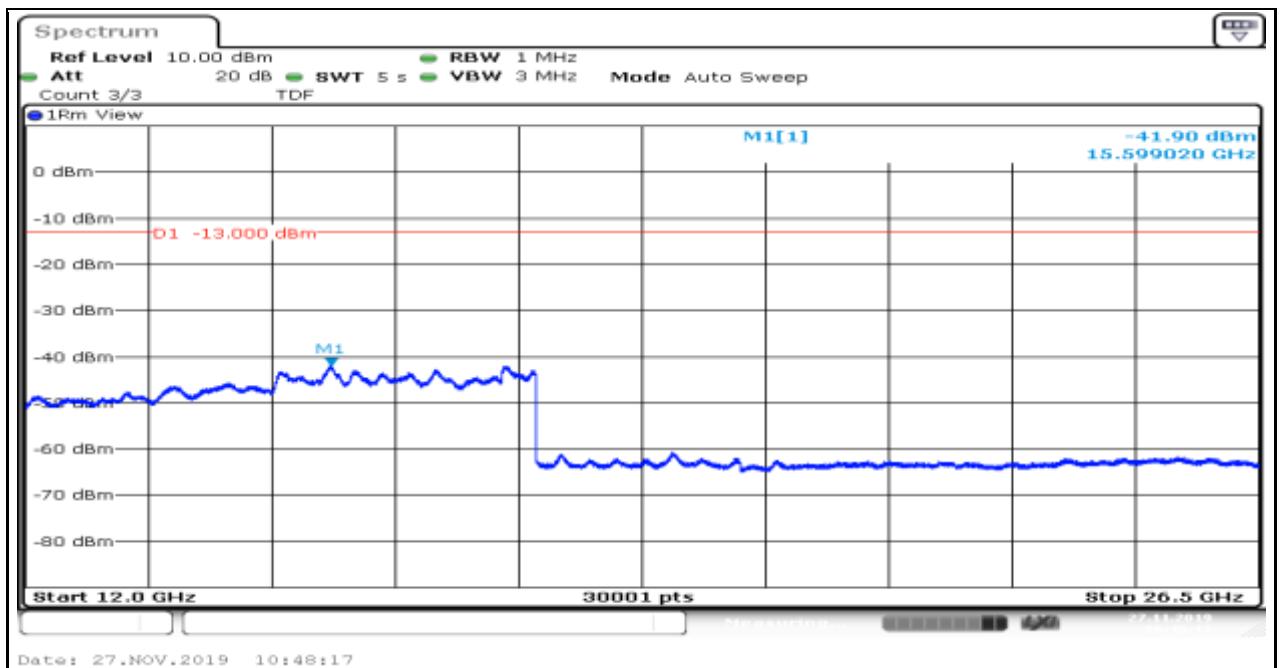


Band26_1.4MHz_QPSK_26915_1_0_Low_30_1000_-36.08_PASS_

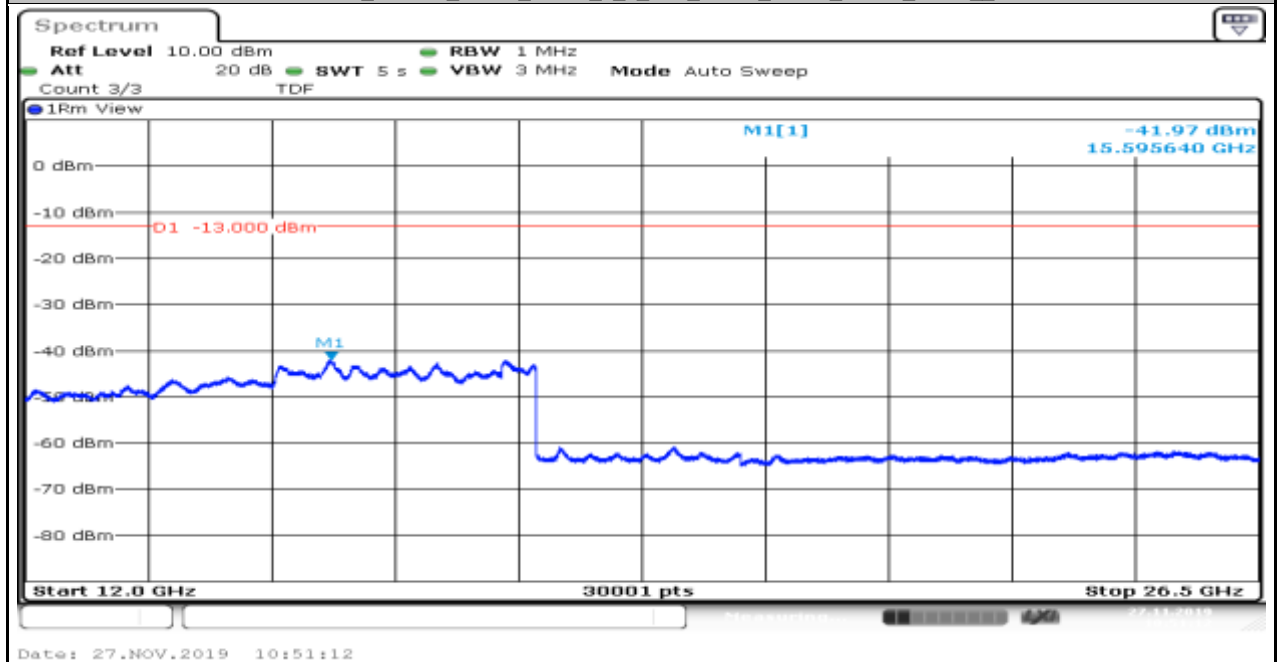


Band26_1.4MHz_QPSK_26915_6_0_Low_5000_12000_-47.86_PASS_

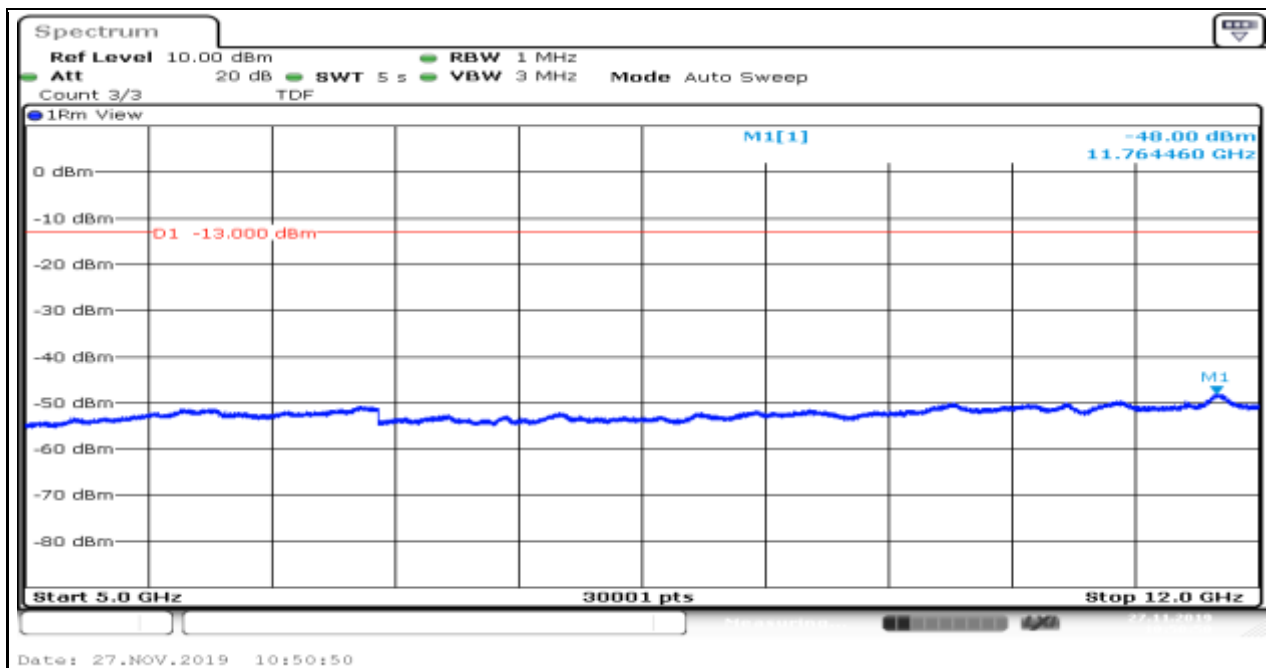




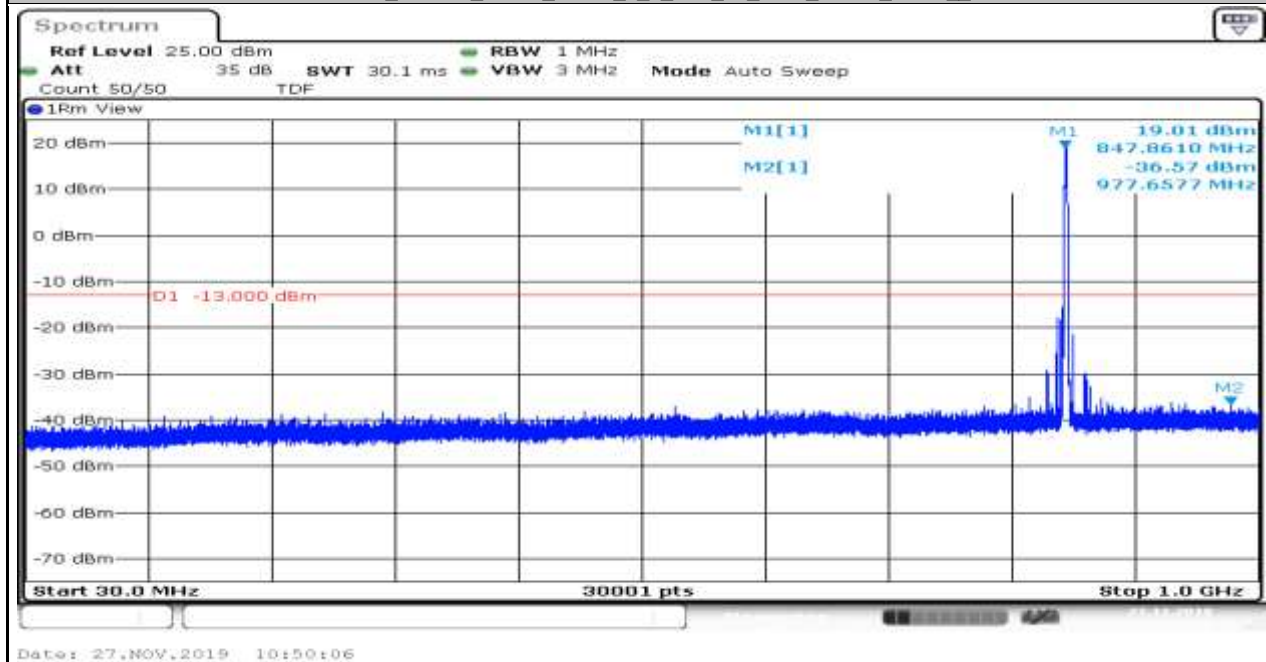
Band26_1.4MHz_QPSK_27033_6_0_Low_12000_26500_-41.97_PASS_



Band26_1.4MHz_QPSK_27033_6_0_Low_5000_12000_-48_PASS_

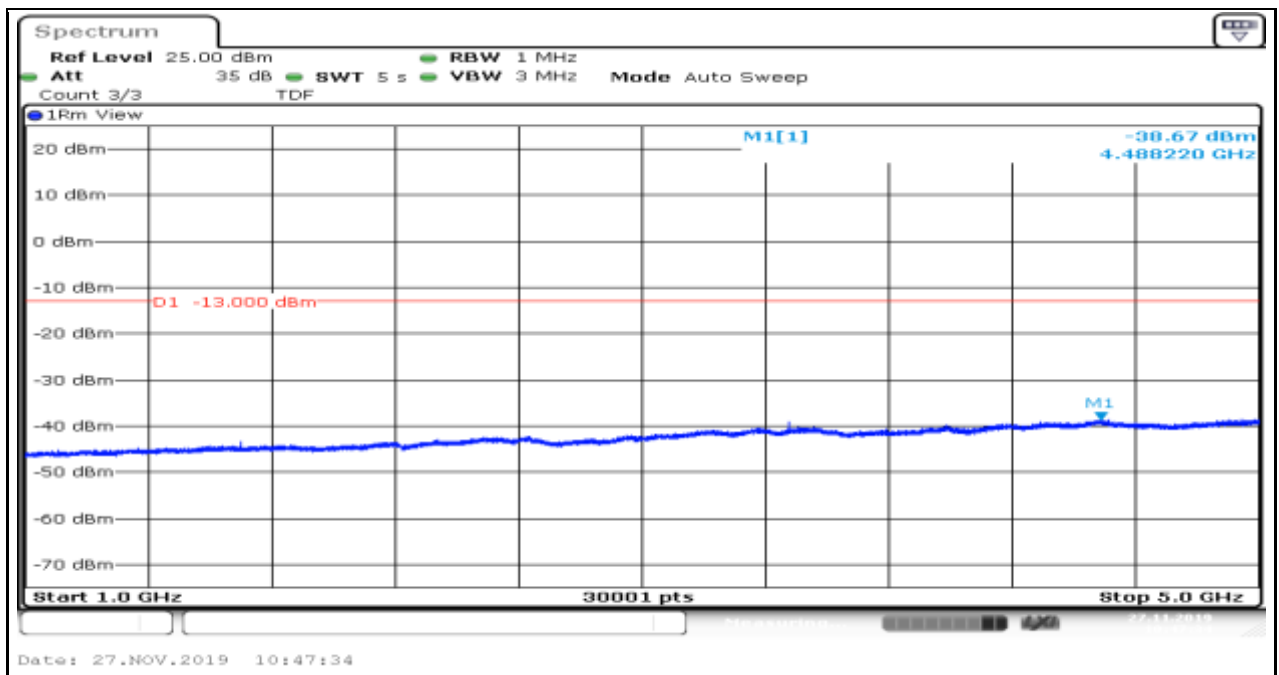


Band26_1.4MHz_QPSK_27033_6_0_Low_30_1000_-36.57_PASS_

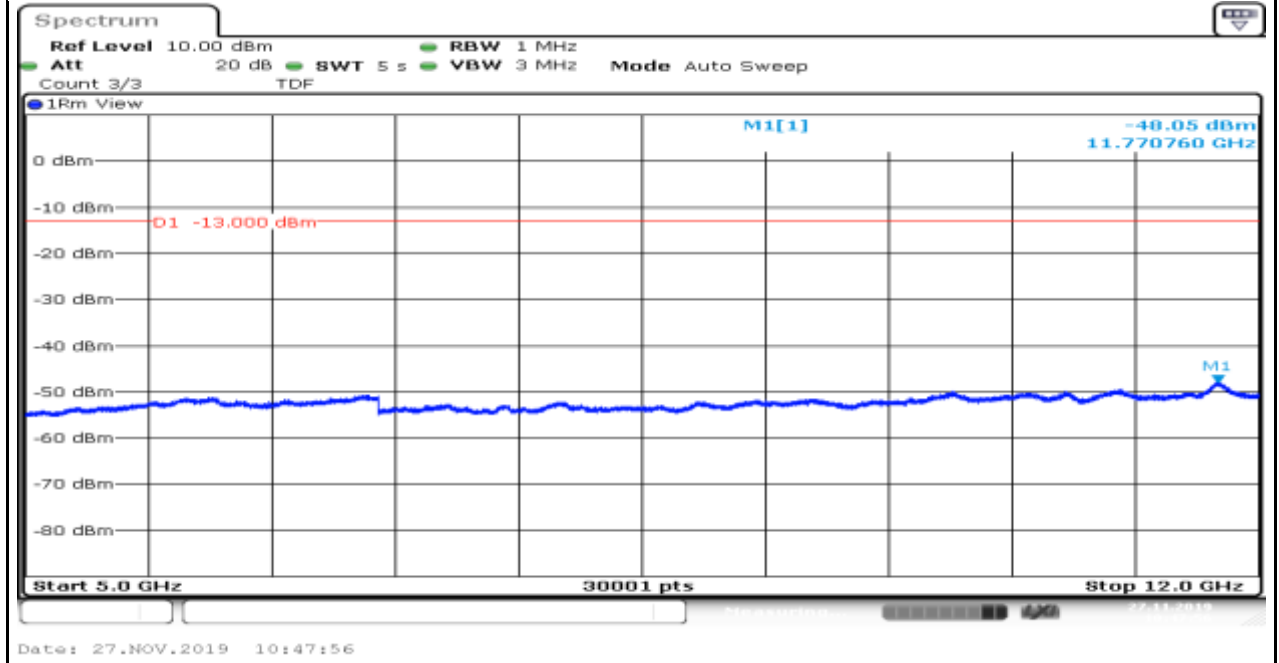


Band26_1.4MHz_QPSK_27033_1_5_Low_1000_5000_-38.67_PASS_

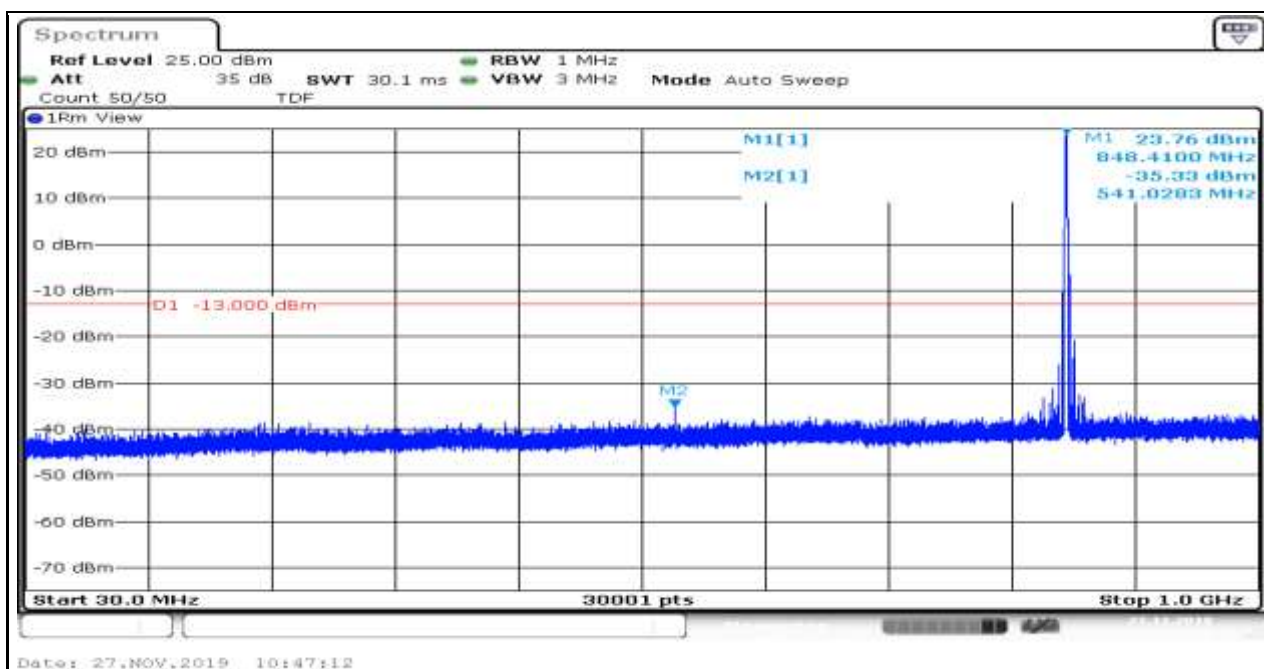
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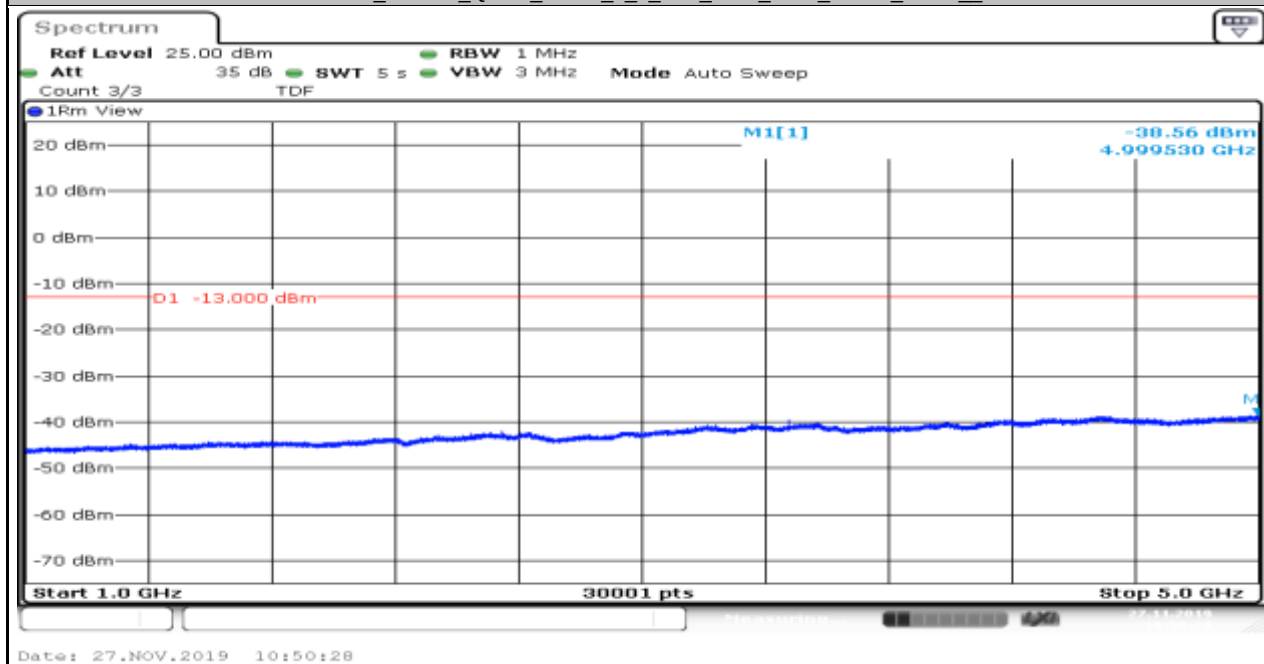
Band26_1.4MHz_QPSK_27033_1_5_Low_5000_12000_-48.05_PASS_



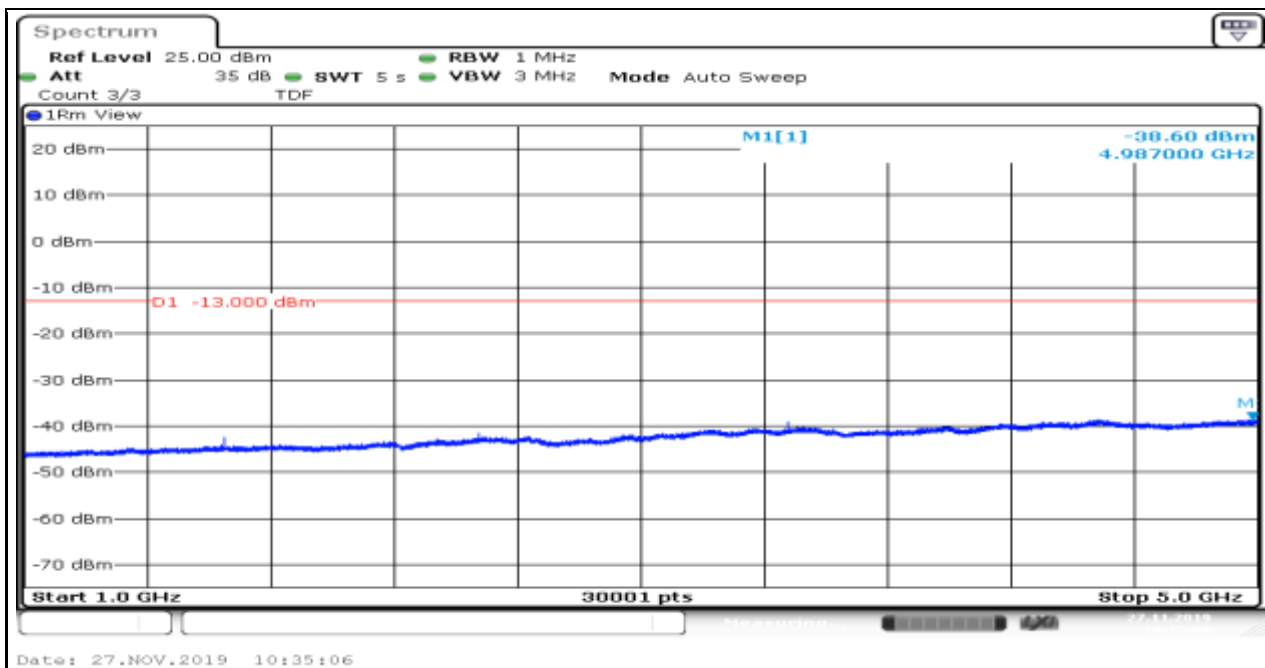
Band26_1.4MHz_QPSK_27033_1_5_Low_30_1000_-35.33_PASS_



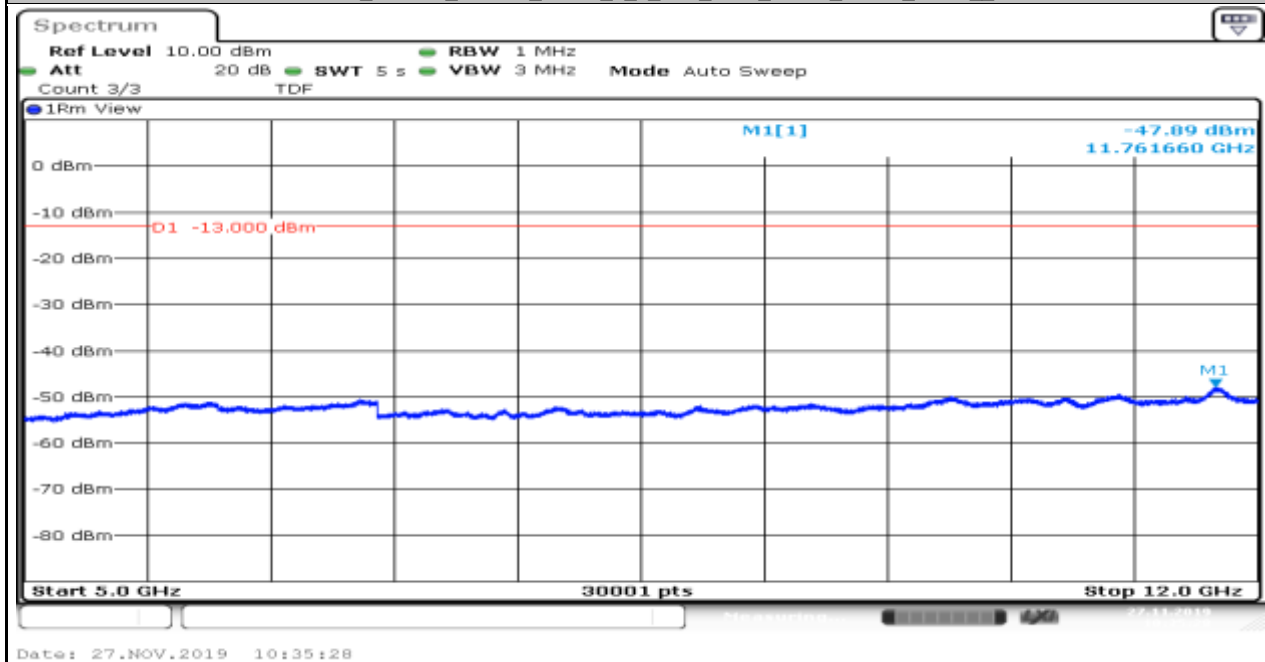
Band26_1.4MHz_QPSK_27033_6_0_Low_1000_5000_-38.56_PASS__



Band26_1.4MHz_16QAM_26797_1_0_Low_1000_5000_-38.6_PASS__

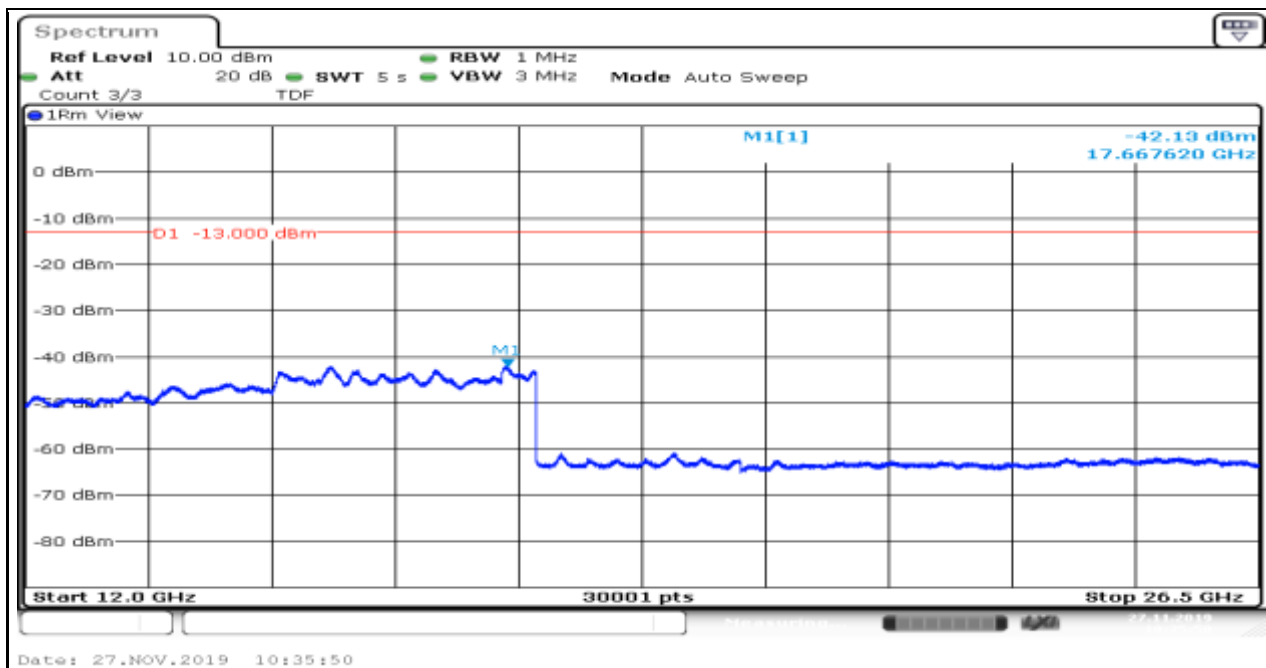


Band26_1.4MHz_16QAM_26797_1_0_Low_5000_12000_-47.89_PASS_

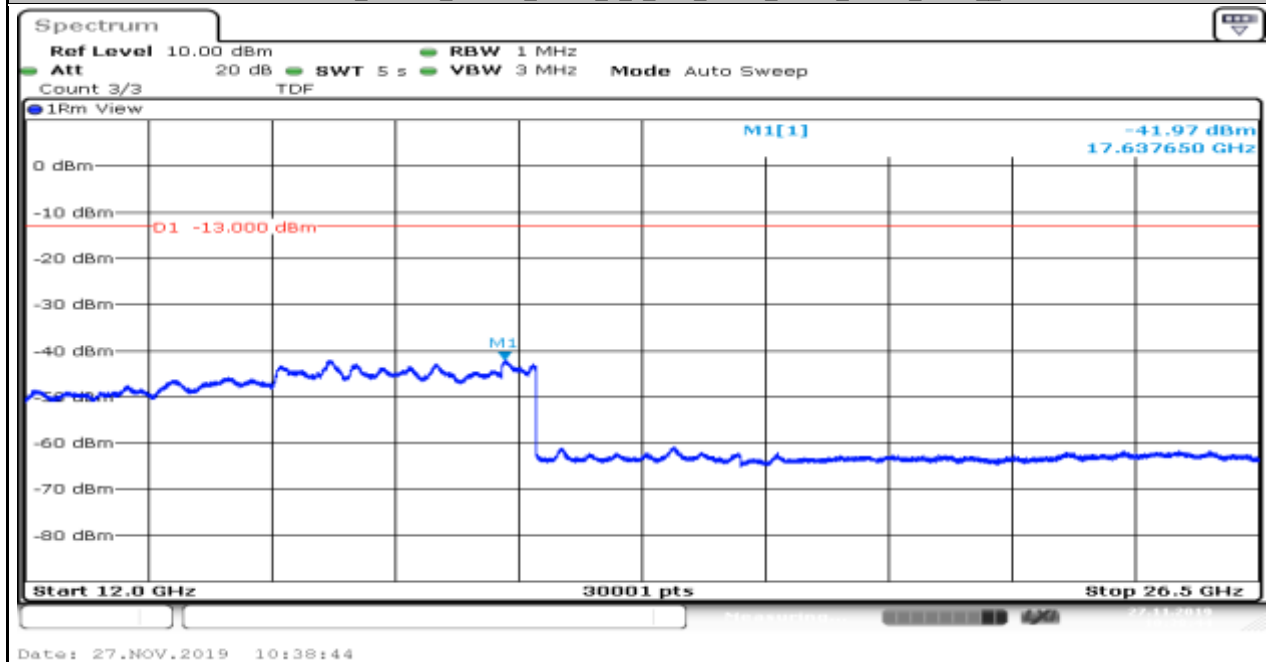


Band26_1.4MHz_16QAM_26797_1_0_Low_12000_26500_-42.13_PASS_

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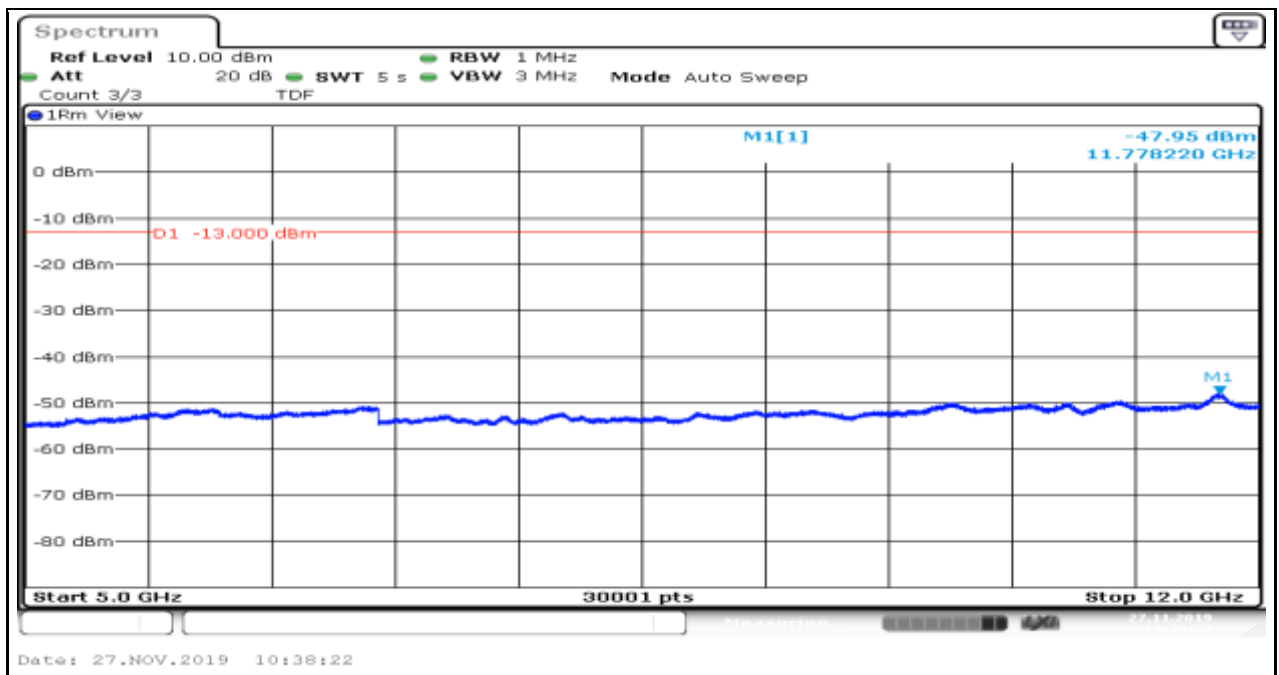


Band26_1.4MHz_16QAM_26797_6_0_Low_12000_26500_-41.97_PASS_

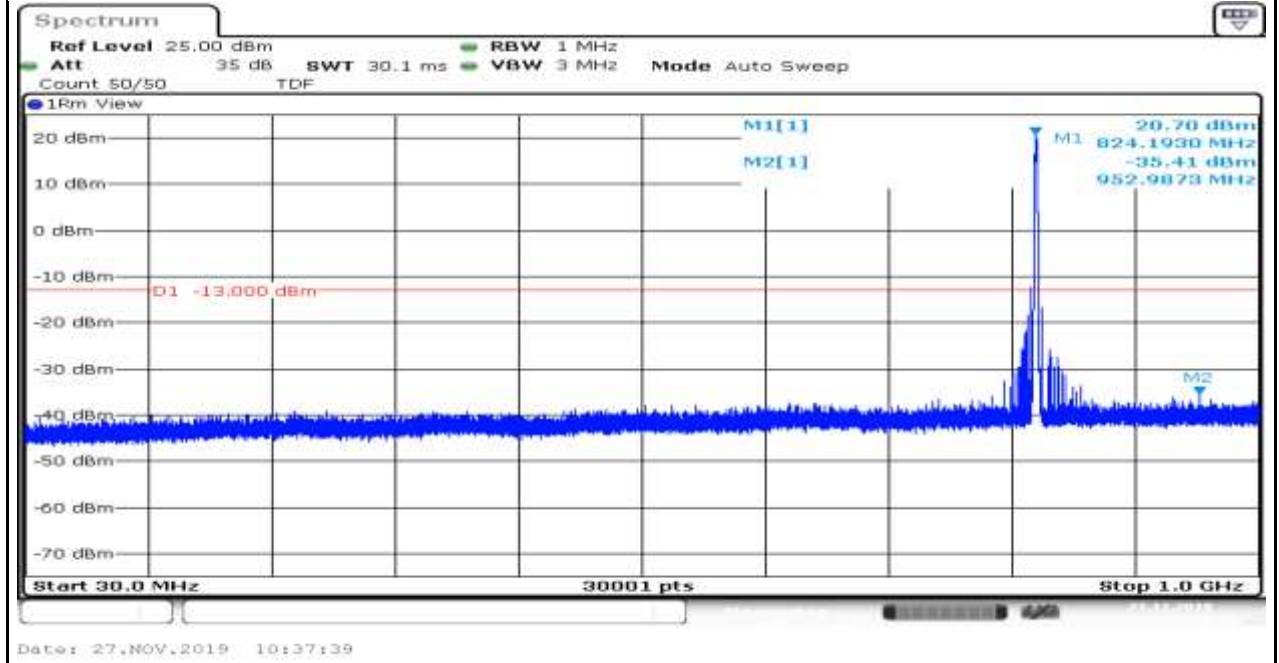


Band26_1.4MHz_16QAM_26797_6_0_Low_5000_12000_-47.95_PASS_

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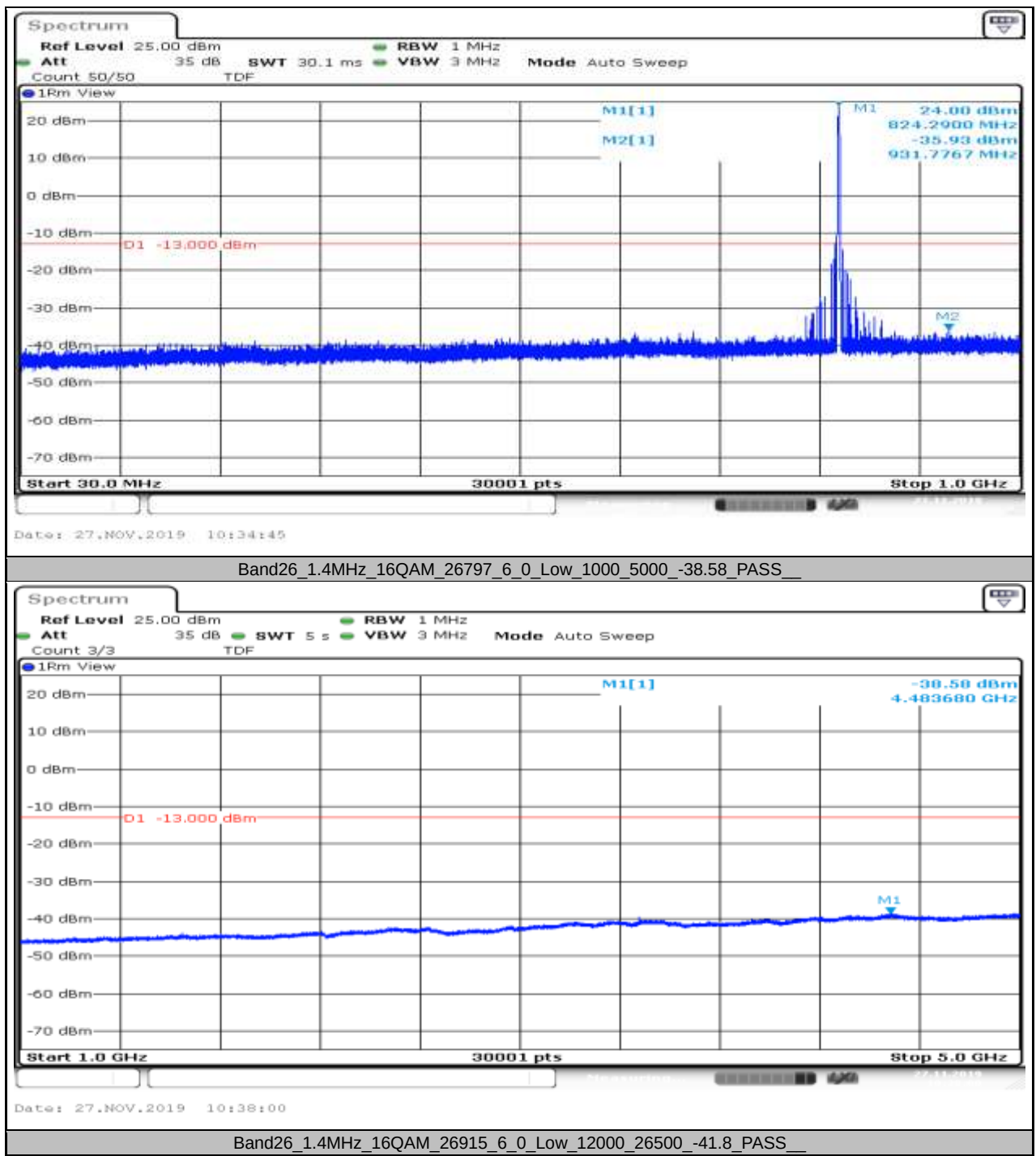


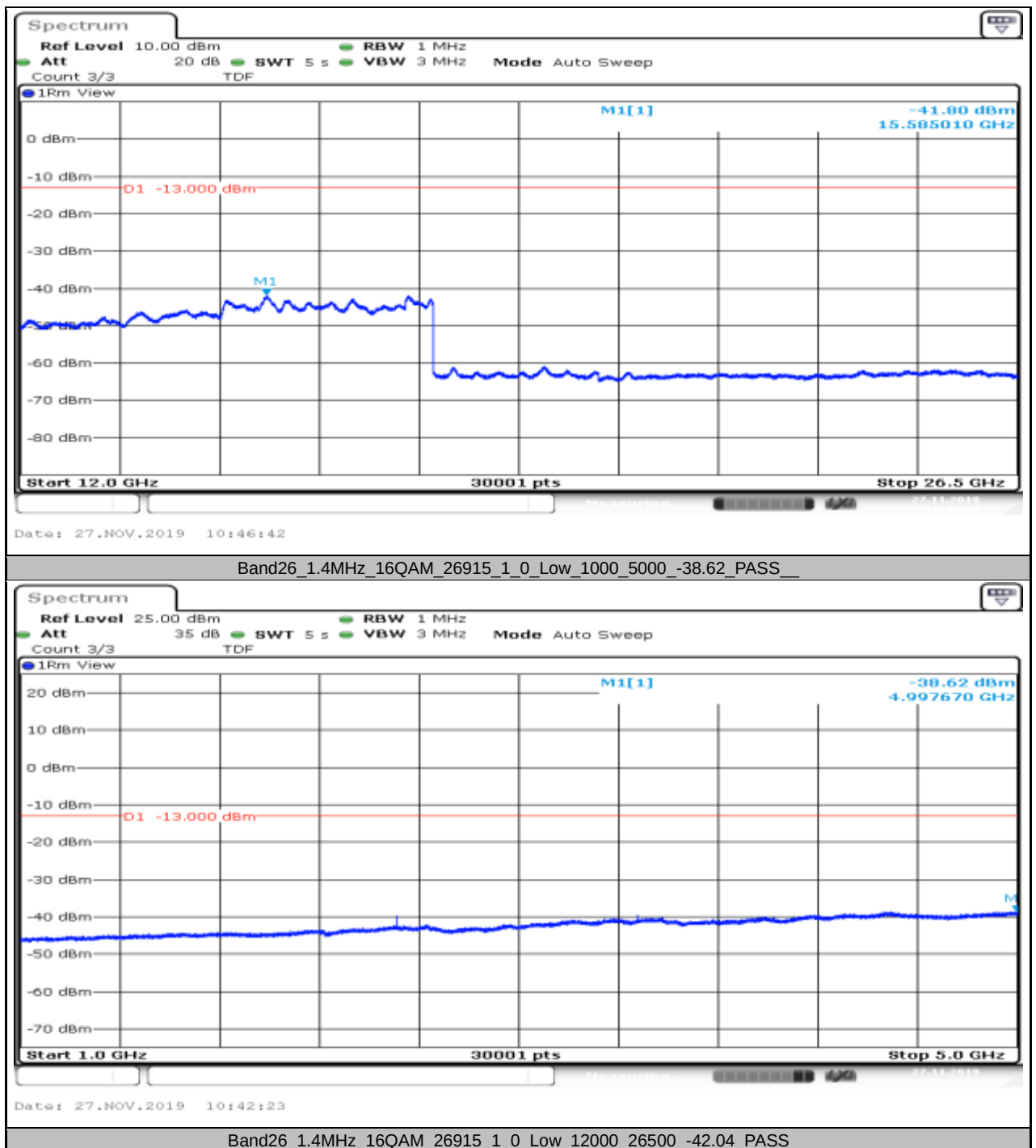
Band26_1.4MHz_16QAM_26797_6_0_Low_30_1000_-35.41_PASS_

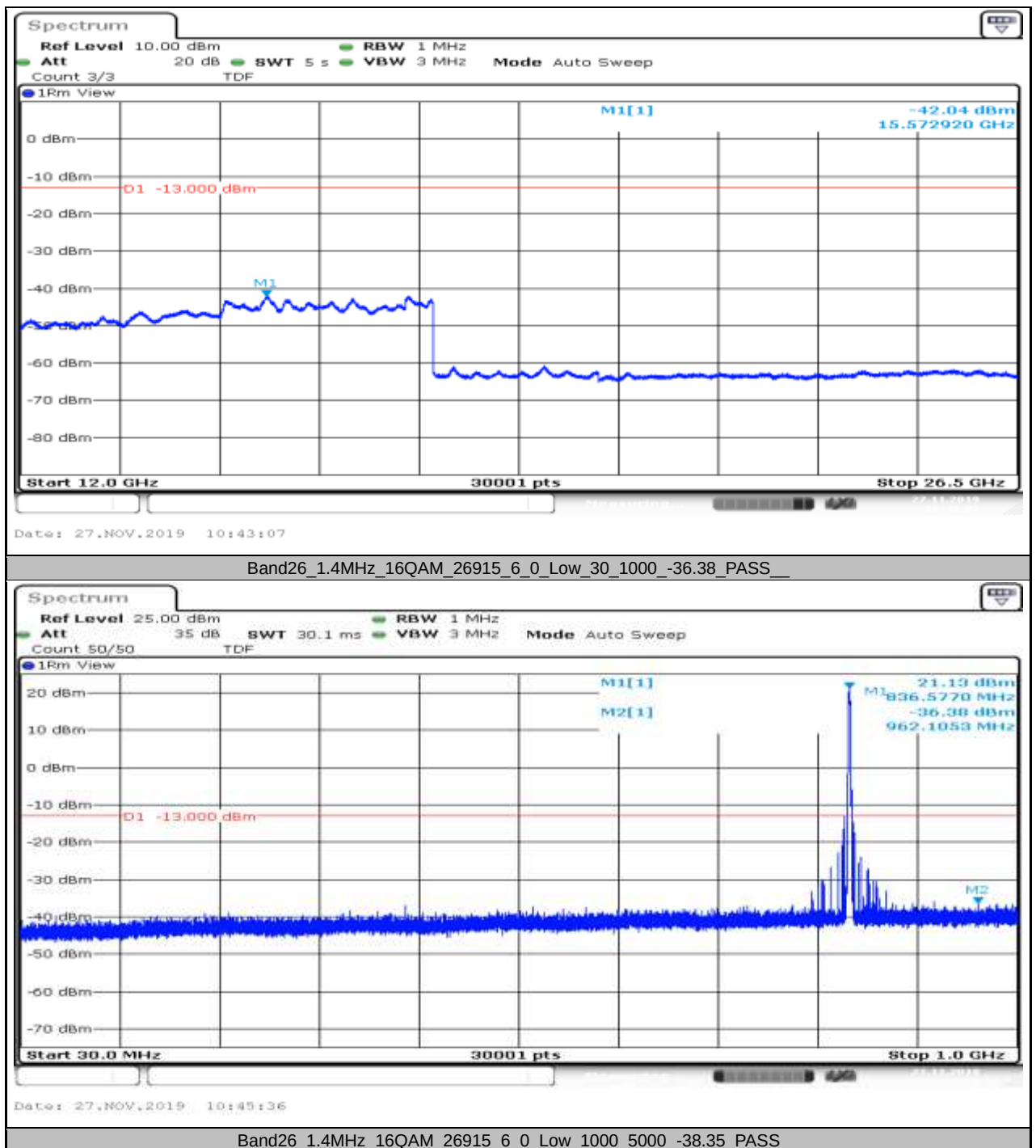


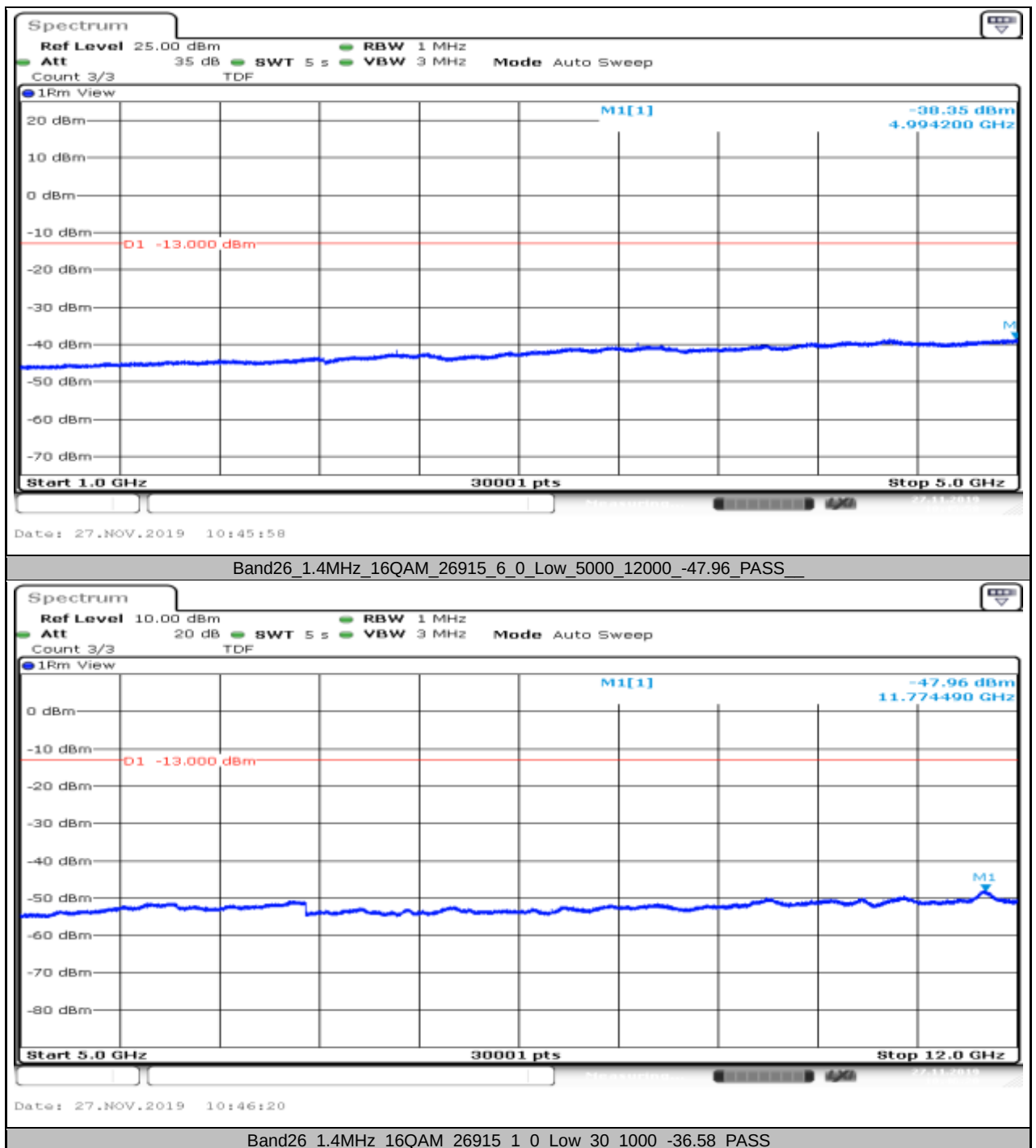
Band26_1.4MHz_16QAM_26797_1_0_Low_30_1000_-35.93_PASS_

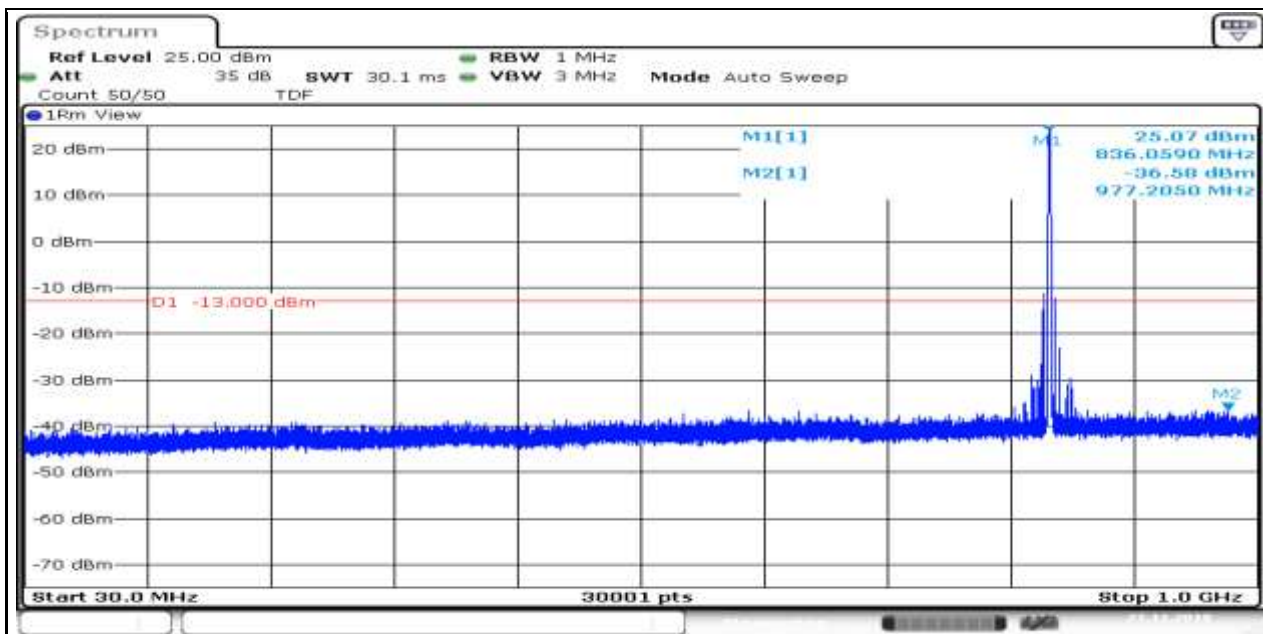
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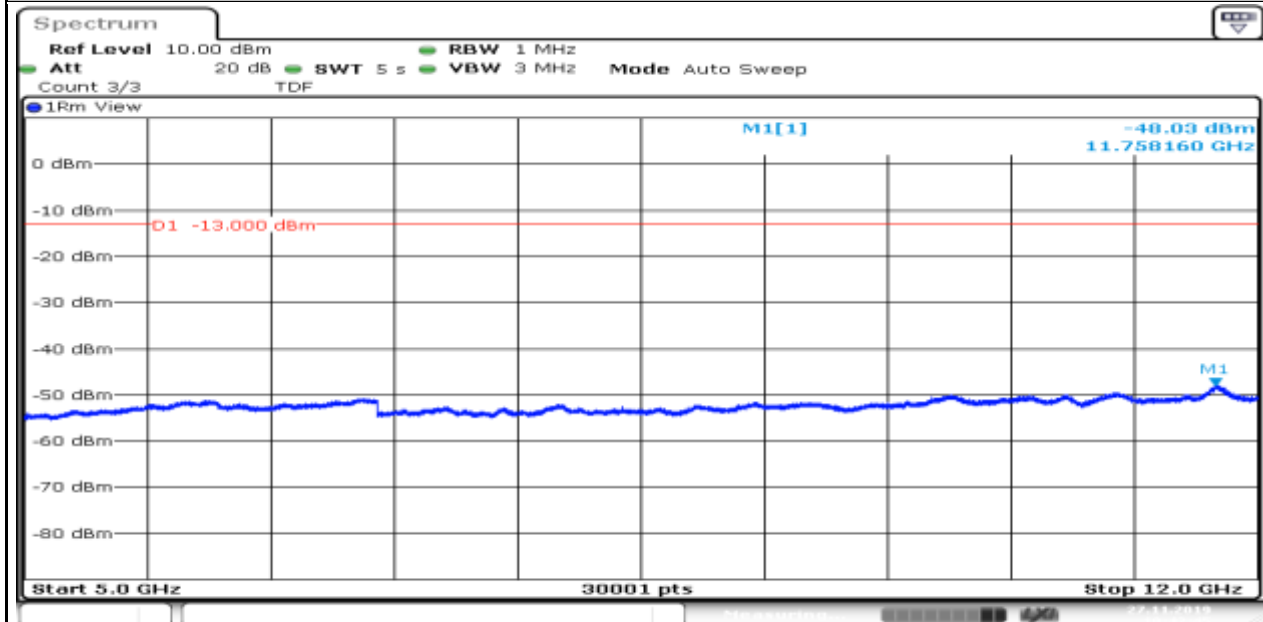




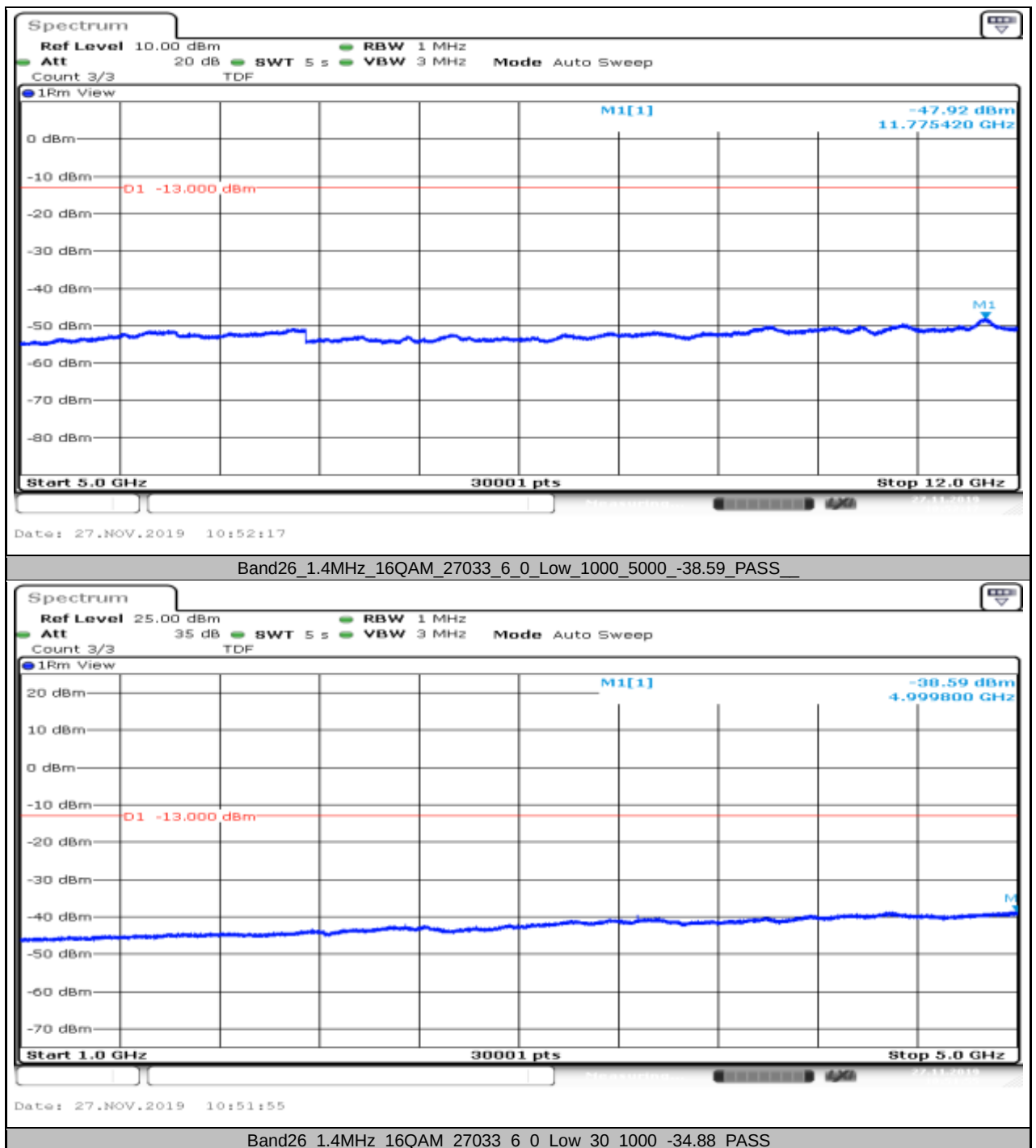


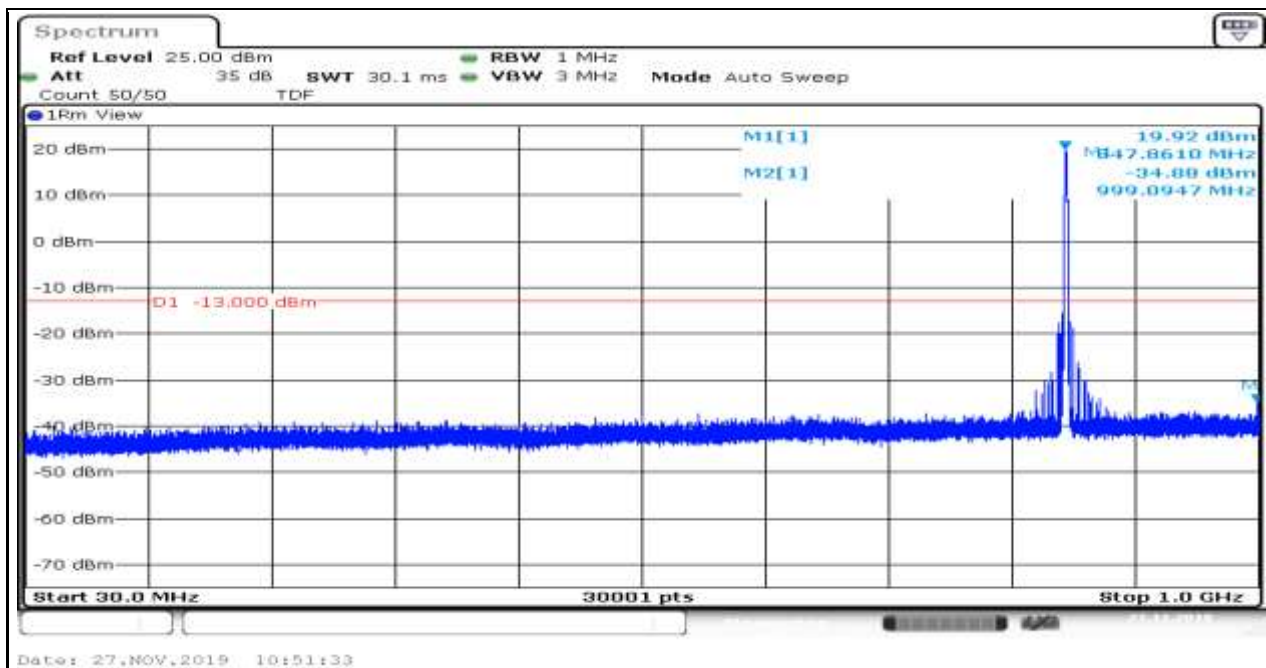


Band26_1.4MHz_16QAM_26915_1_0_Low_5000_12000_-48.03_PASS_

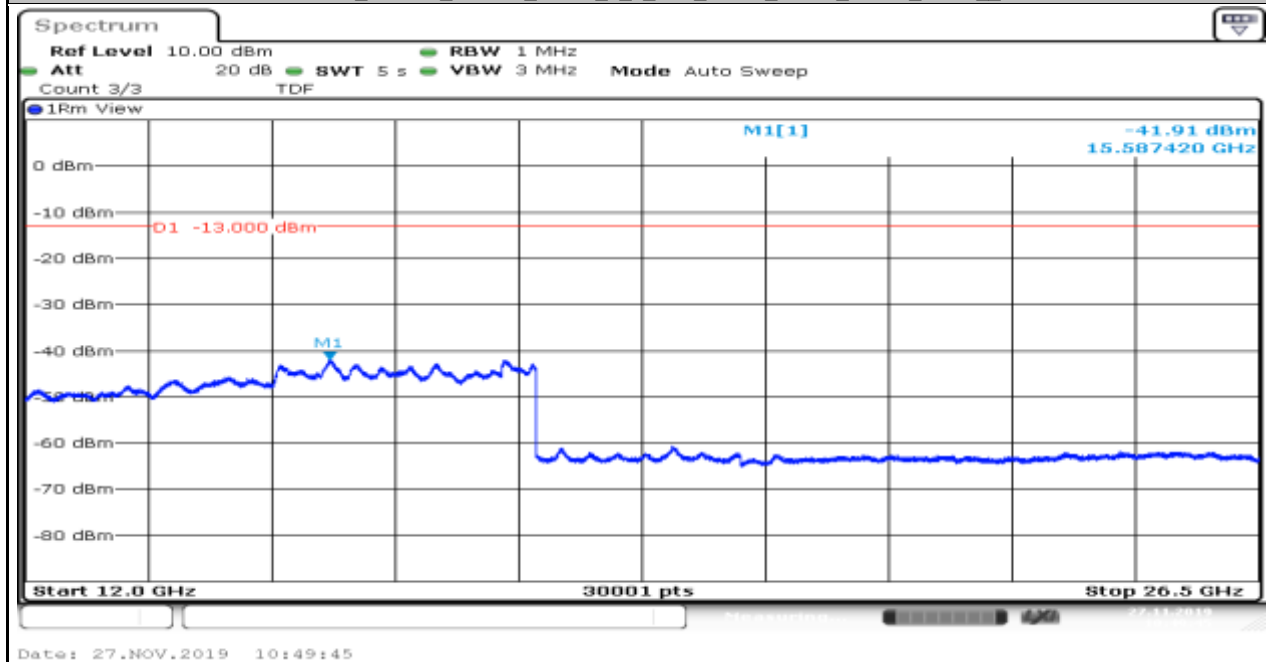


Band26_1.4MHz_16QAM_27033_6_0_Low_5000_12000_-47.92_PASS_

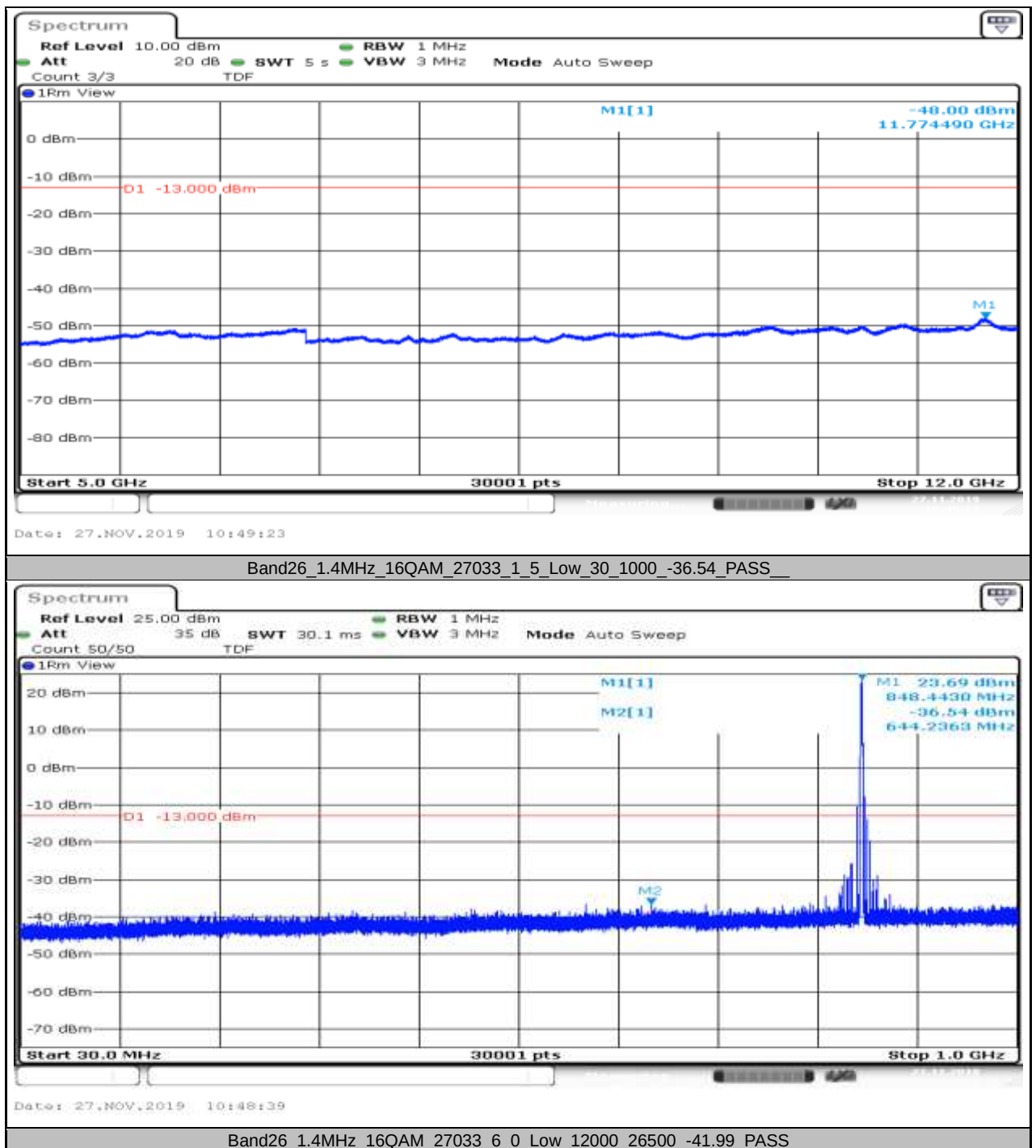




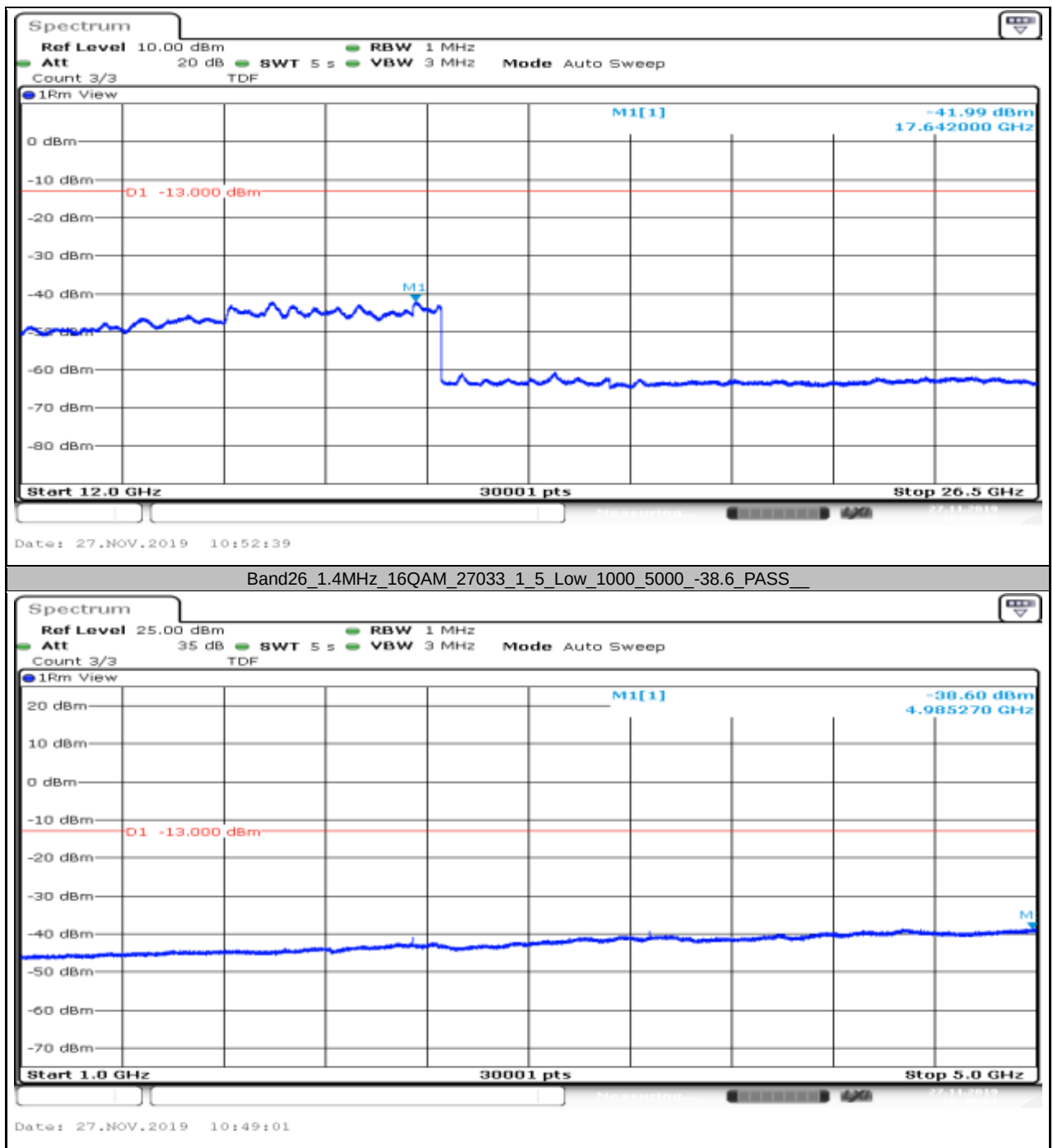
Band26_1.4MHz_16QAM_27033_1_5_Low_12000_26500_-41.91_PASS_



Band26_1.4MHz_16QAM_27033_1_5_Low_5000_12000_-48_PASS_



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Appendix H.6: Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	1.4MHz	QPSK	26915	1	0	Low	LV	NT	-22.32	-0.02668	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	HV	NT	-20.53	-0.02454	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	NT	-23.52	-0.02812	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	HV	NT	80.02	0.09566	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	LV	NT	84.66	0.101207	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	NT	79.92	0.095541	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	30	-21.49	-0.02569	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	85	-18.05	-0.02158	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	80	-24.16	-0.02888	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	70	-15.94	-0.01906	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	60	-21.09	-0.02521	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	50	-23.19	-0.02772	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	40	-16.32	-0.01951	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	10	-18.12	-0.02166	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	0	-16.26	-0.01944	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	-10	-15.34	-0.01834	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	-20	-15.54	-0.01858	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	-40	-15.32	-0.01831	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	20	-26.08	-0.03118	±2.5	PASS
Band26	1.4MHz	QPSK	26915	1	0	Low	NV	-30	-24.1	-0.02881	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	80	79.61	0.09517	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	60	81.15	0.097011	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	85	79.91	0.095529	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	70	83.43	0.099737	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	50	79.41	0.094931	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	-40	81.28	0.097167	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	-30	81.9	0.097908	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	-20	83.5	0.099821	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	-10	81.47	0.097394	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	0	79.79	0.095386	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	10	80.32	0.096019	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	20	80.02	0.09566	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	40	78.81	0.094214	±2.5	PASS
Band26	1.4MHz	16QAM	26915	1	0	Low	NV	30	78.61	0.093975	±2.5	PASS