

Appendix G: Test Results of Band 26 Lower Band for NB-IoT operation

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

Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result		Limit (watts)	Verdict
							dBm	Watts		
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	5.55	0.004	100	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	15kHz	5.46	0.004	100	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@11	15kHz	5.38	0.003	100	PASS
Band26	Stand-Alone	NaN	QPSK	26691	3@3	15kHz	5.35	0.003	100	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	5.63	0.004	100	PASS
Band26	Stand-Alone	NaN	QPSK	26692	1@0	3.75kHz	20.1	0.102	100	PASS
Band26	Stand-Alone	NaN	QPSK	26692	1@47	3.75kHz	20.02	0.100	100	PASS
Band26	Stand-Alone	NaN	QPSK	26692	3@3	15kHz	20.69	0.117	100	PASS
Band26	Stand-Alone	NaN	QPSK	26692	1@11	15kHz	20.5	0.112	100	PASS
Band26	Stand-Alone	NaN	QPSK	26692	1@0	15kHz	20.58	0.114	100	PASS
Band26	Stand-Alone	NaN	QPSK	26740	3@3	15kHz	20.79	0.120	100	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	20.4	0.110	100	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	20.54	0.113	100	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	19.96	0.099	100	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	20.16	0.104	100	PASS
Band26	Stand-Alone	NaN	QPSK	26788	1@11	15kHz	20.44	0.111	100	PASS
Band26	Stand-Alone	NaN	QPSK	26788	1@0	15kHz	20.53	0.113	100	PASS
Band26	Stand-Alone	NaN	QPSK	26788	3@3	15kHz	20.67	0.117	100	PASS
Band26	Stand-Alone	NaN	QPSK	26788	1@0	3.75kHz	20.13	0.103	100	PASS
Band26	Stand-Alone	NaN	QPSK	26788	1@47	3.75kHz	20.06	0.101	100	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	15kHz	5.47	0.004	100	PASS
Band26	Stand-Alone	NaN	QPSK	26789	3@3	15kHz	5.4	0.003	100	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@11	15kHz	5.42	0.003	100	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	5.64	0.004	100	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	5.57	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	5.4	0.003	100	PASS
Band26	Stand-Alone	NaN	BPSK	26691	3@3	15kHz	5.35	0.003	100	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@47	3.75kHz	5.52	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	3.75kHz	5.57	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	5.38	0.003	100	PASS
Band26	Stand-Alone	NaN	BPSK	26692	1@11	15kHz	20.39	0.109	100	PASS
Band26	Stand-Alone	NaN	BPSK	26692	1@0	15kHz	20.44	0.111	100	PASS
Band26	Stand-Alone	NaN	BPSK	26692	1@0	3.75kHz	20.08	0.102	100	PASS
Band26	Stand-Alone	NaN	BPSK	26692	1@47	3.75kHz	20.12	0.103	100	PASS
Band26	Stand-Alone	NaN	BPSK	26692	3@3	15kHz	20.69	0.117	100	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@47	3.75kHz	19.97	0.099	100	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	3.75kHz	20.06	0.101	100	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	20.41	0.110	100	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	20.3	0.107	100	PASS
Band26	Stand-Alone	NaN	BPSK	26740	3@3	15kHz	20.8	0.120	100	PASS
Band26	Stand-Alone	NaN	BPSK	26788	1@47	3.75kHz	20.04	0.101	100	PASS
Band26	Stand-Alone	NaN	BPSK	26788	1@0	3.75kHz	20.1	0.102	100	PASS
Band26	Stand-Alone	NaN	BPSK	26788	3@3	15kHz	20.67	0.117	100	PASS
Band26	Stand-Alone	NaN	BPSK	26788	1@11	15kHz	20.3	0.107	100	PASS
Band26	Stand-Alone	NaN	BPSK	26788	1@0	15kHz	20.38	0.109	100	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	5.49	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26789	3@3	15kHz	5.4	0.003	100	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@47	3.75kHz	5.55	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	3.75kHz	5.6	0.004	100	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	5.44	0.003	100	PASS

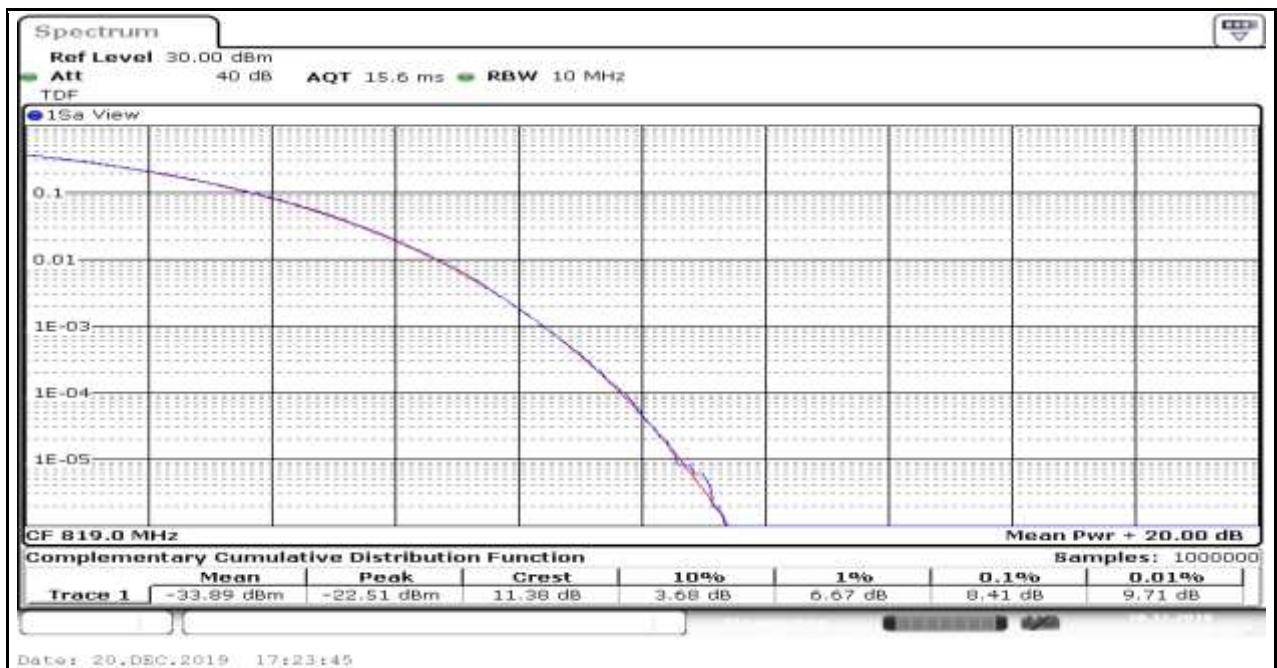
Appendix G.2: Peak-to-Average Ratio (CCDF) for NB

Test Result

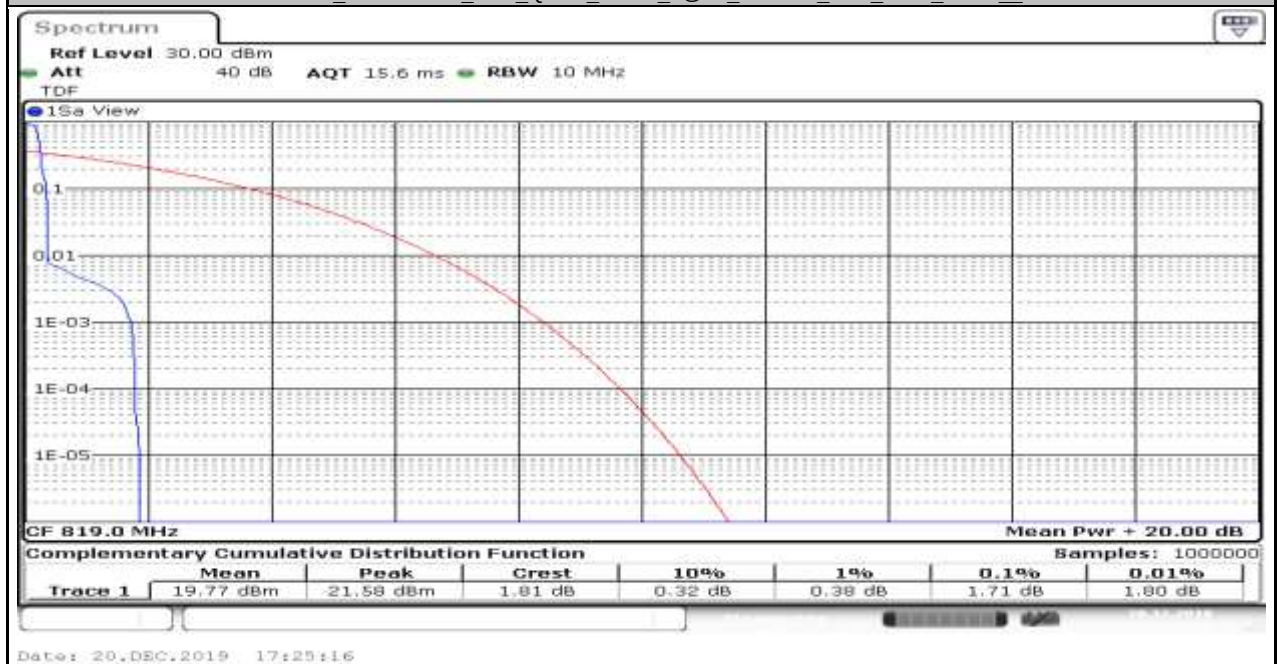
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band26	Stand-Alone	NaN	QPSK	26740	3@3	15kHz	9.65	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	8.41	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	1.71	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	6.96	<=13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	10.49	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@47	3.75kHz	12.93	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	1.39	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	8.49	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	3.75kHz	1.74	<=13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	3@3	15kHz	8.2	<=13	PASS

Test Graphs

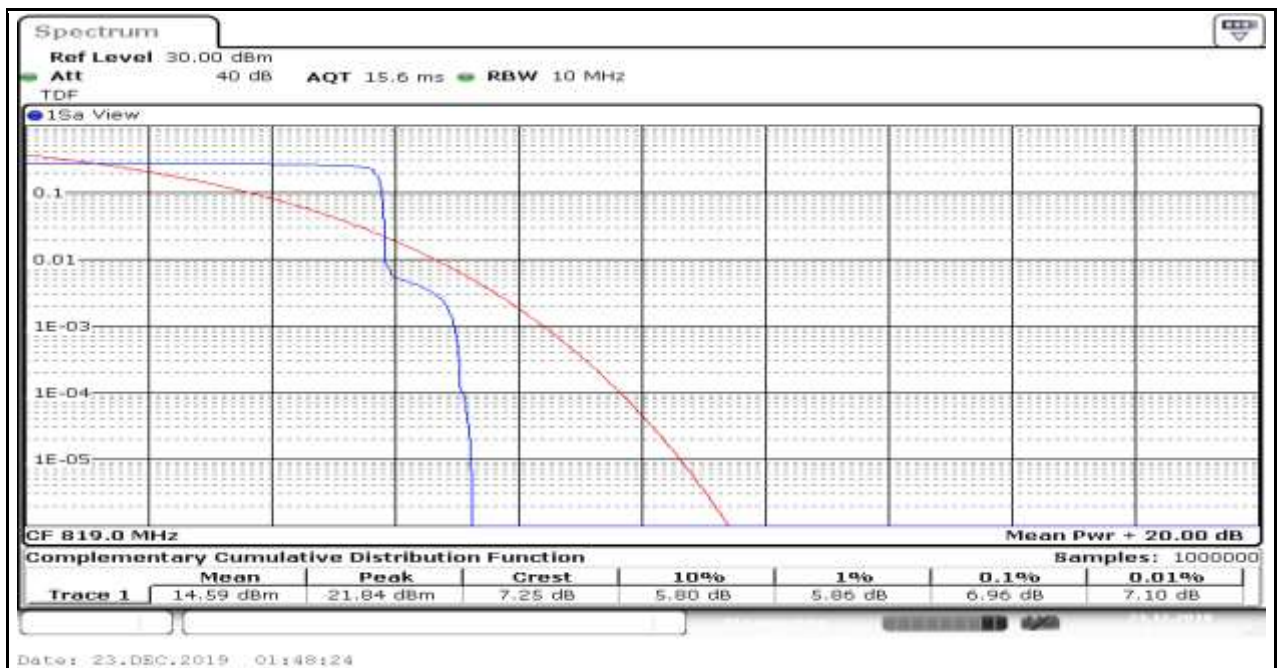




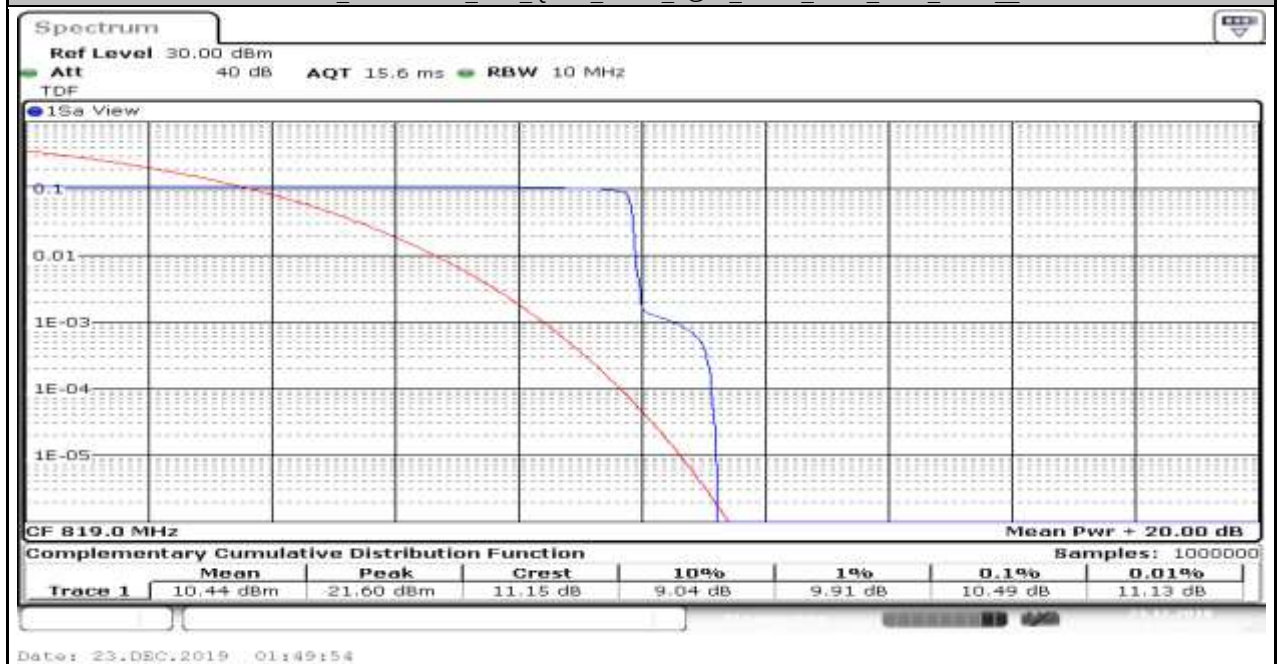
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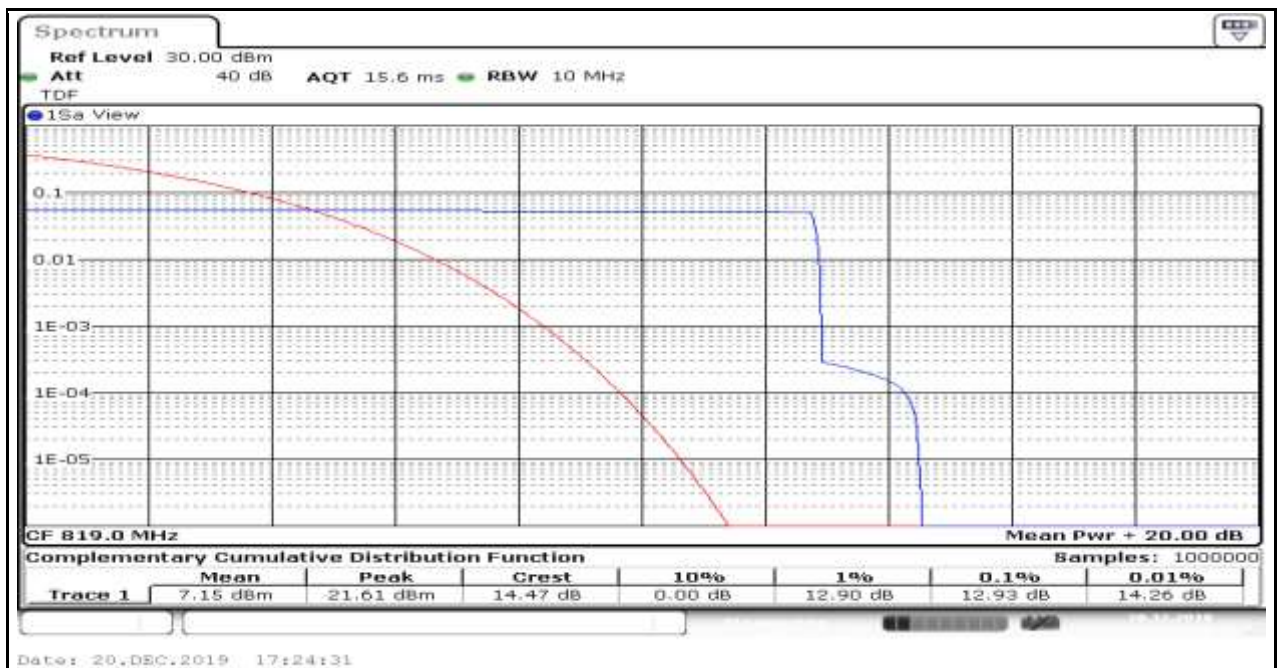
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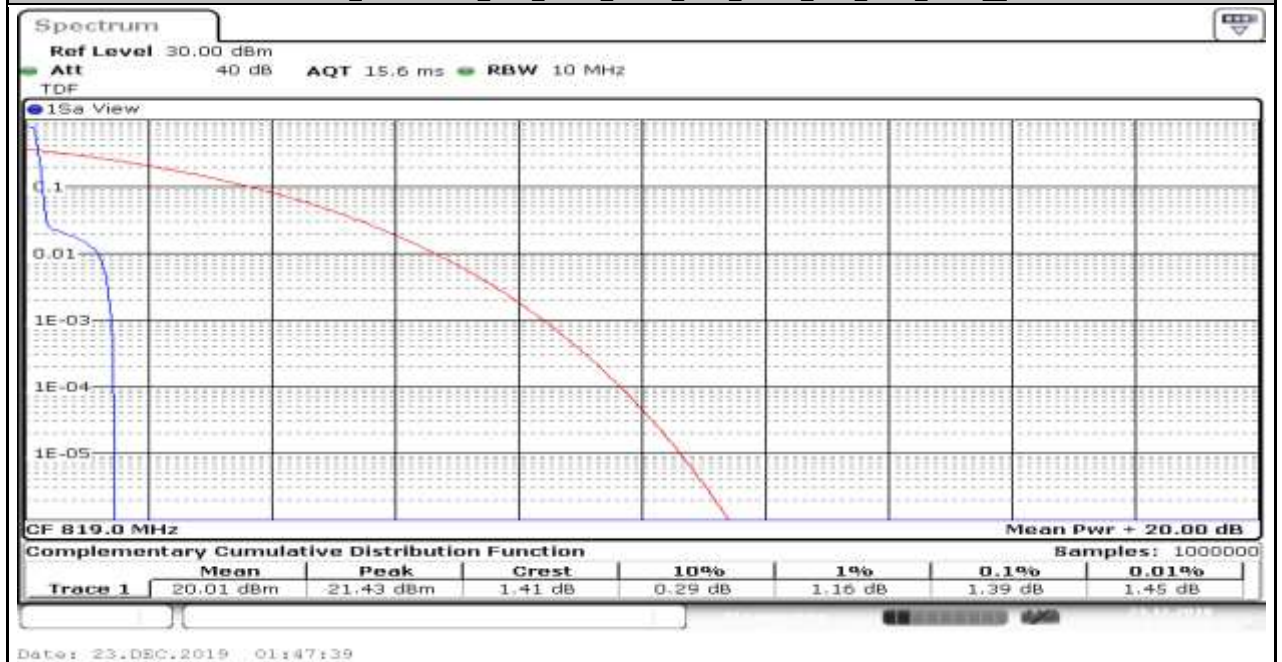
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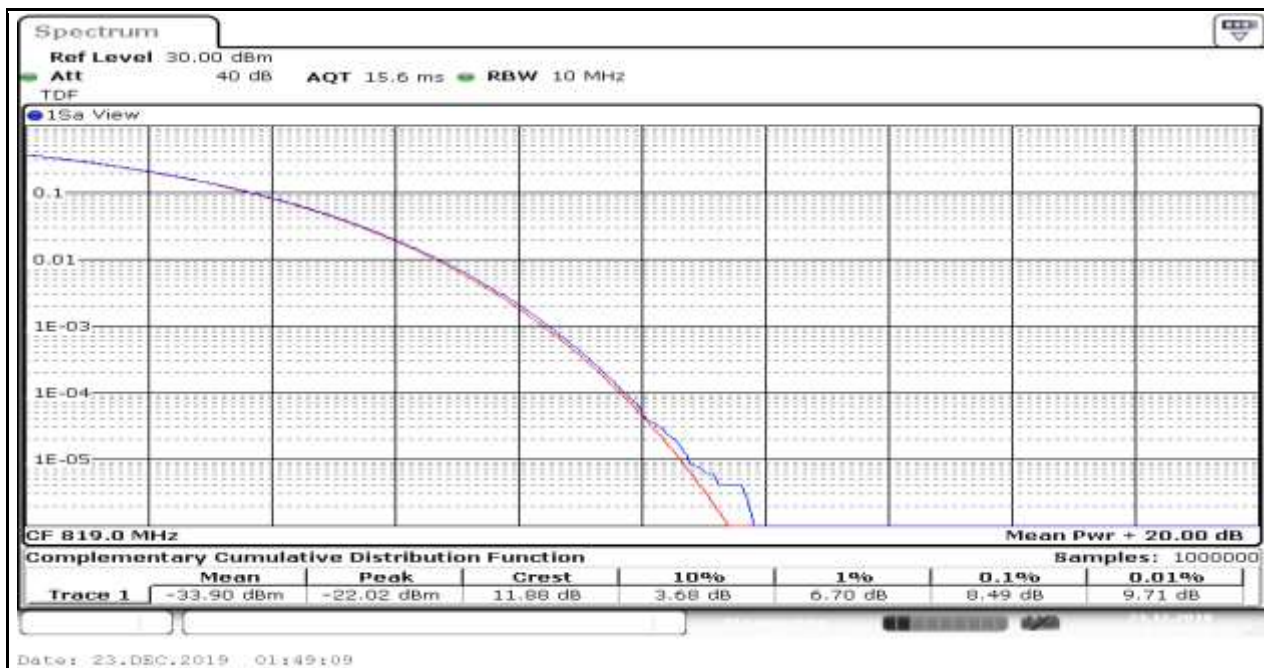
Band26_Stand-Alone_NaN_BPSK_26740_1@47_3.75kHz_12.93_<=13_PASS_



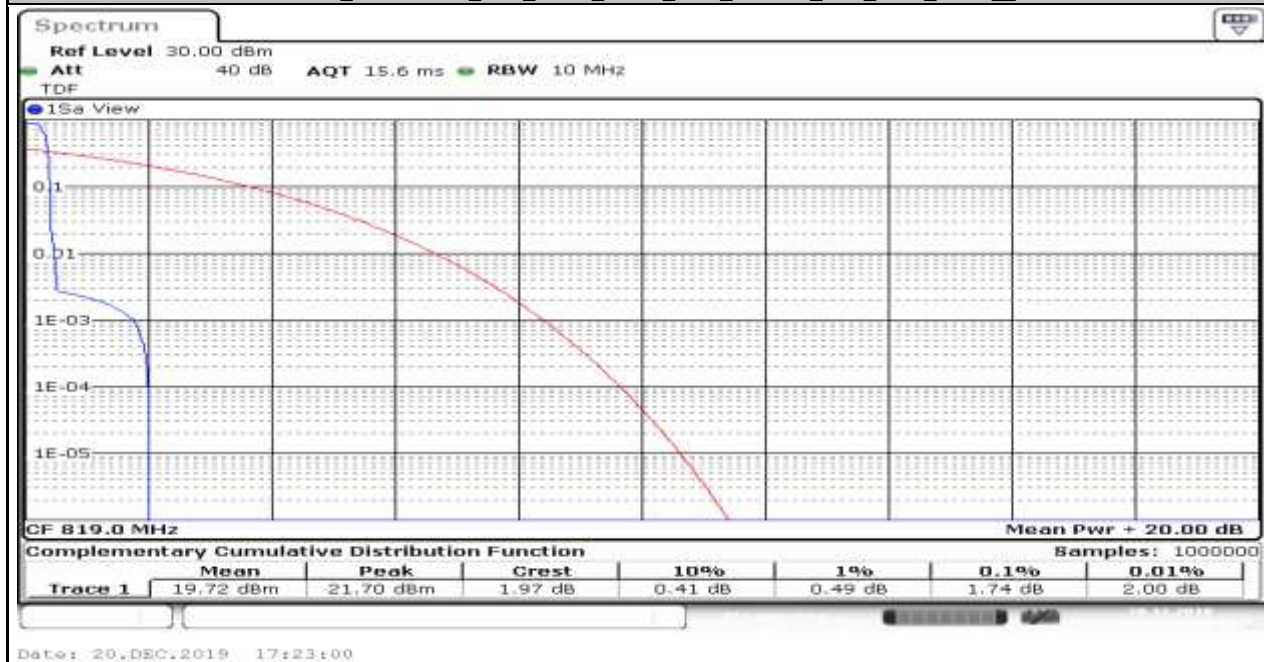
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_1.39_<=13_PASS



Band26_Stand-Alone_NaN_BPSK_26740_1@11_15kHz_8.49_<=13_PASS

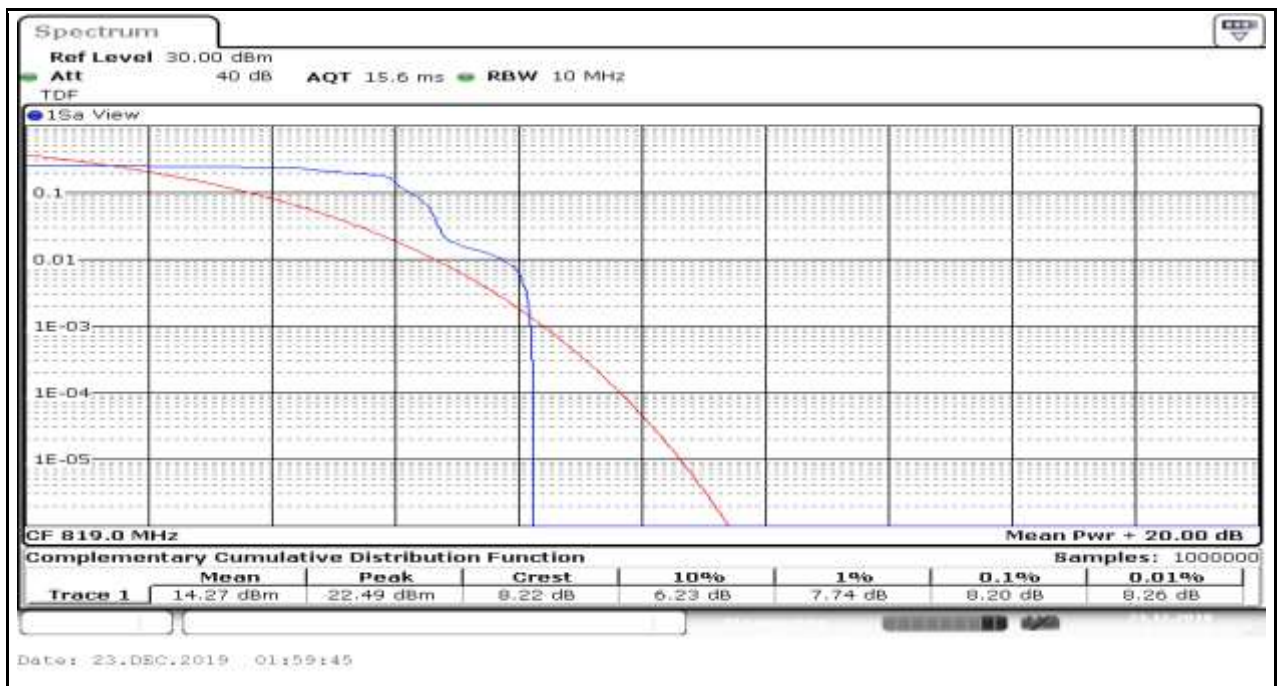


Band26_Stand-Alone_NaB_BPSK_26740_1@0_3.75kHz_1.74_<=13_PASS_



Band26_Stand-Alone_NaB_BPSK_26740_3@3_15kHz_8.2_<=13_PASS_

Produkte
Products

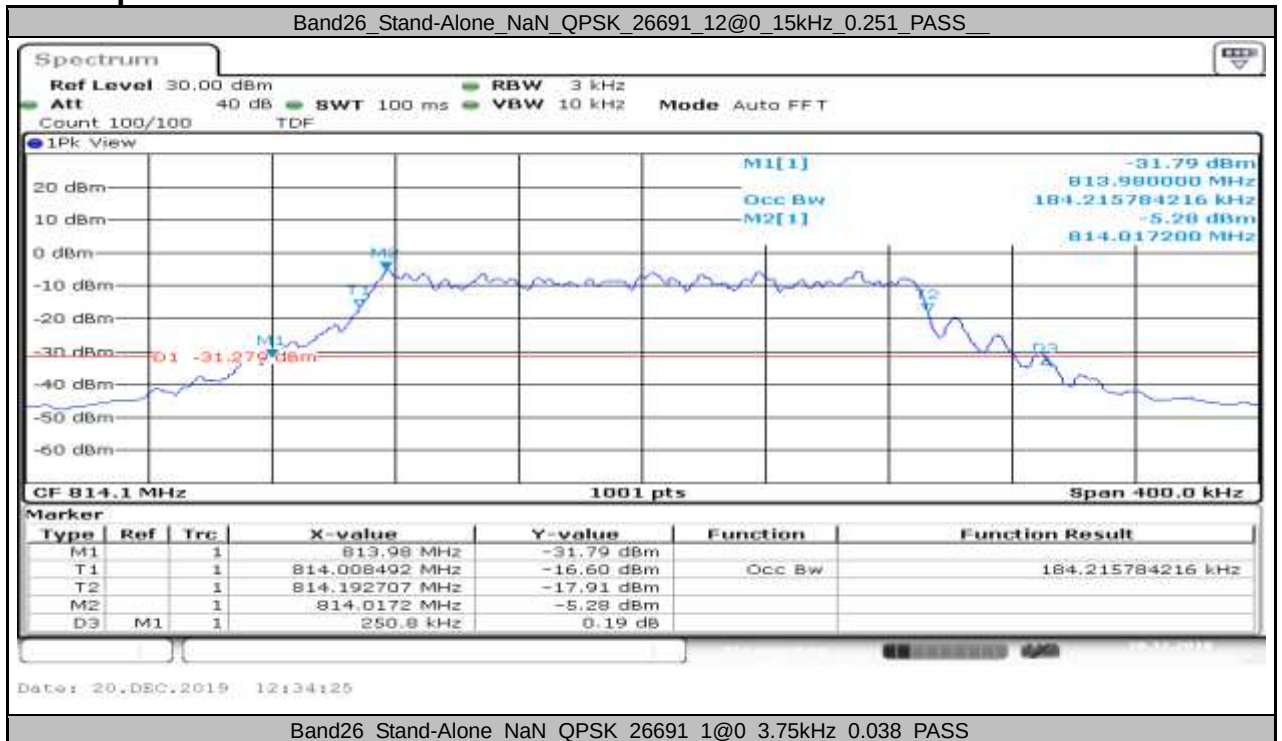


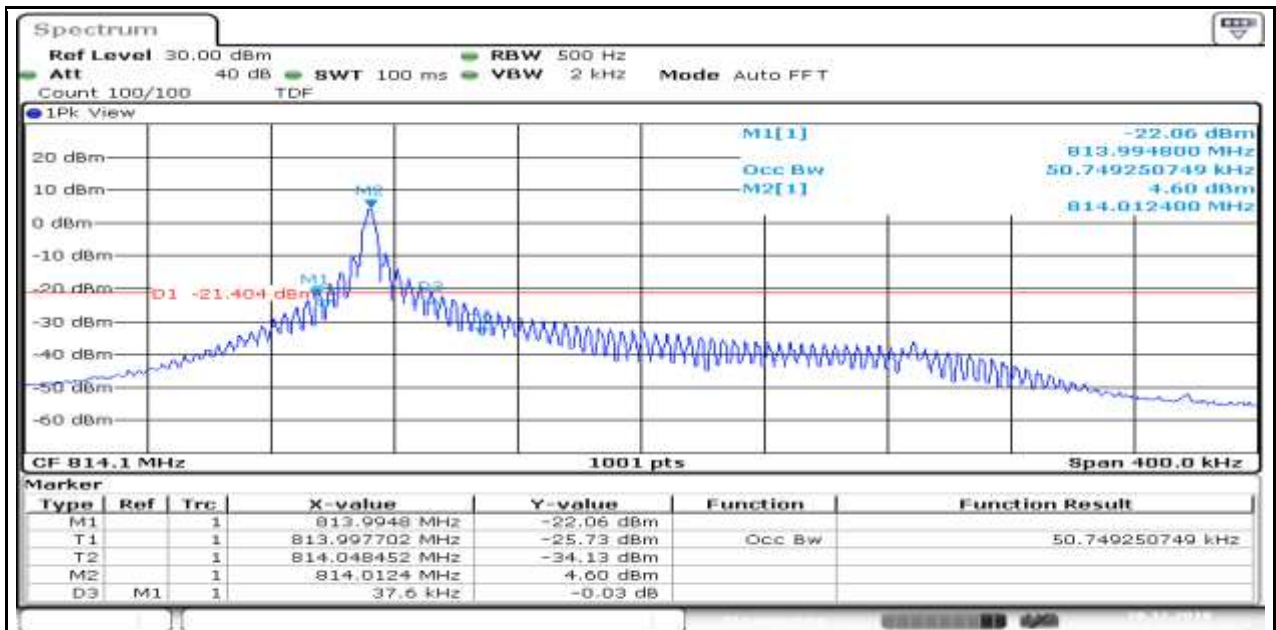
Appendix G.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	0.251	0.184	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	0.038	0.051	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	15kHz	0.117	0.119	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	0.038	0.051	PASS
Band26	Stand-Alone	NaN	QPSK	26740	12@0	15kHz	0.25	0.184	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	0.117	0.121	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	0.251	0.184	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	15kHz	0.117	0.119	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	0.038	0.051	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	3.75kHz	0.032	0.054	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	0.104	0.128	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	0.106	0.127	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	3.75kHz	0.032	0.054	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	0.104	0.128	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	3.75kHz	0.032	0.054	PASS

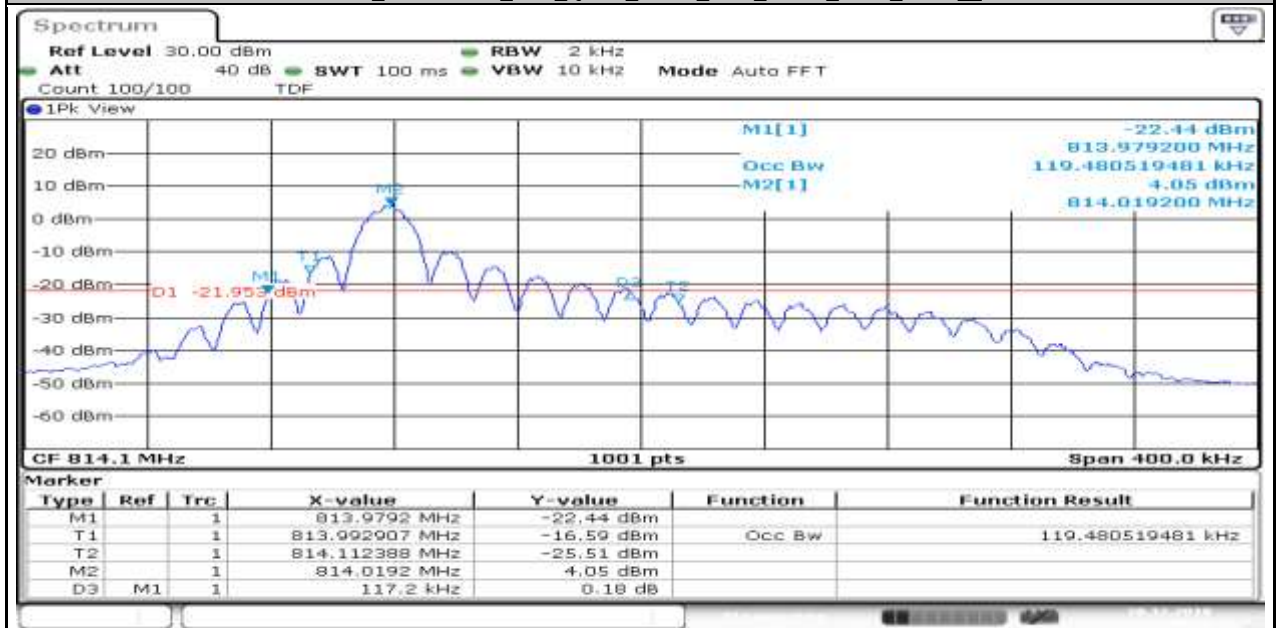
Test Graphs





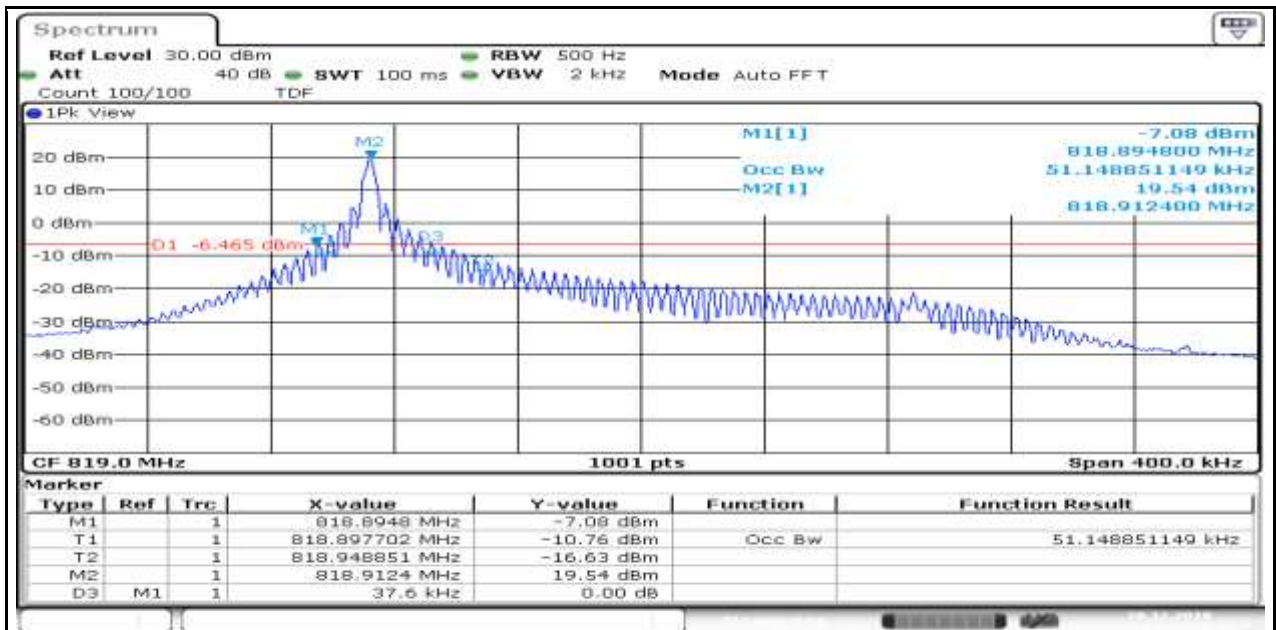
Date: 20.DEC.2019 14:13:09

Band26_Stand-Alone_NaN_QPSK_26691_1@0_15kHz_0.117_PASS_

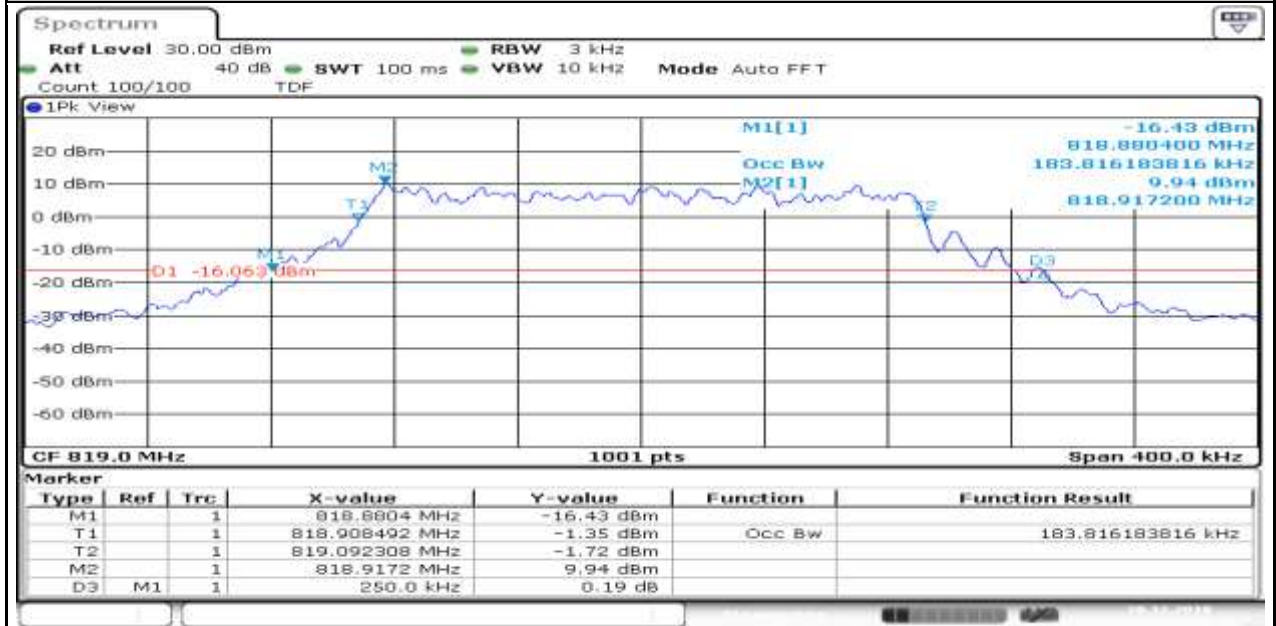


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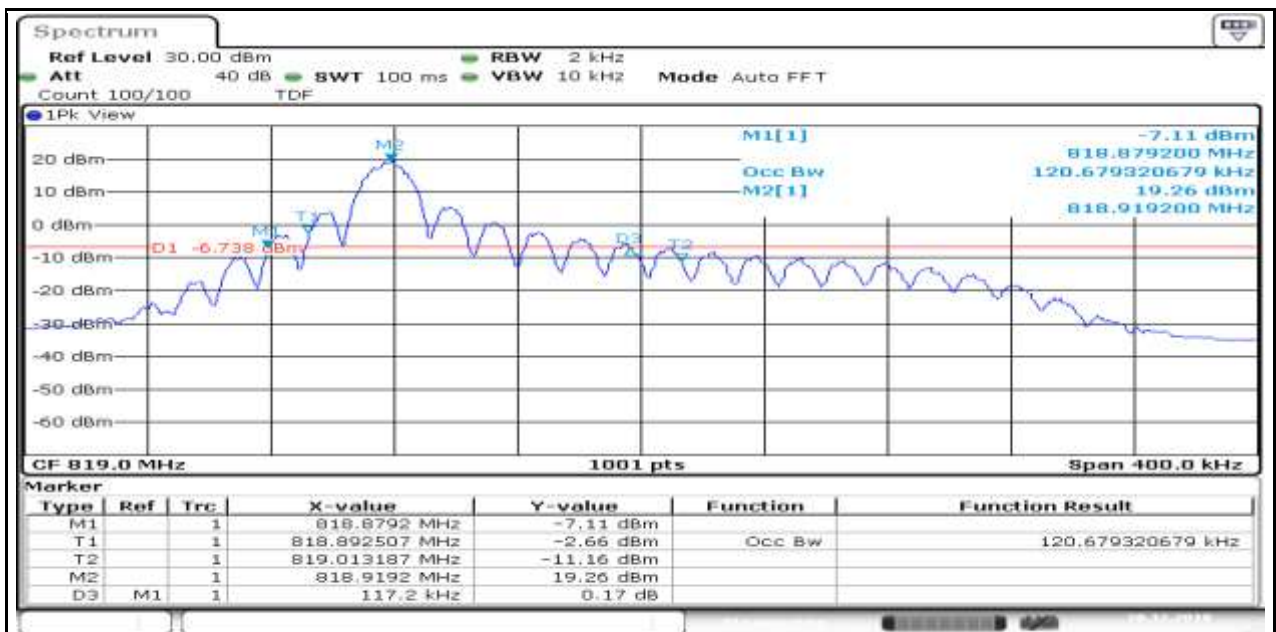
Band26_Stand-Alone_NaN_QPSK_26740_1@0_3.75kHz_0.038_PASS_



Band26_Stand-Alone_NaN_QPSK_26740_12@0_15kHz_0.250_PASS

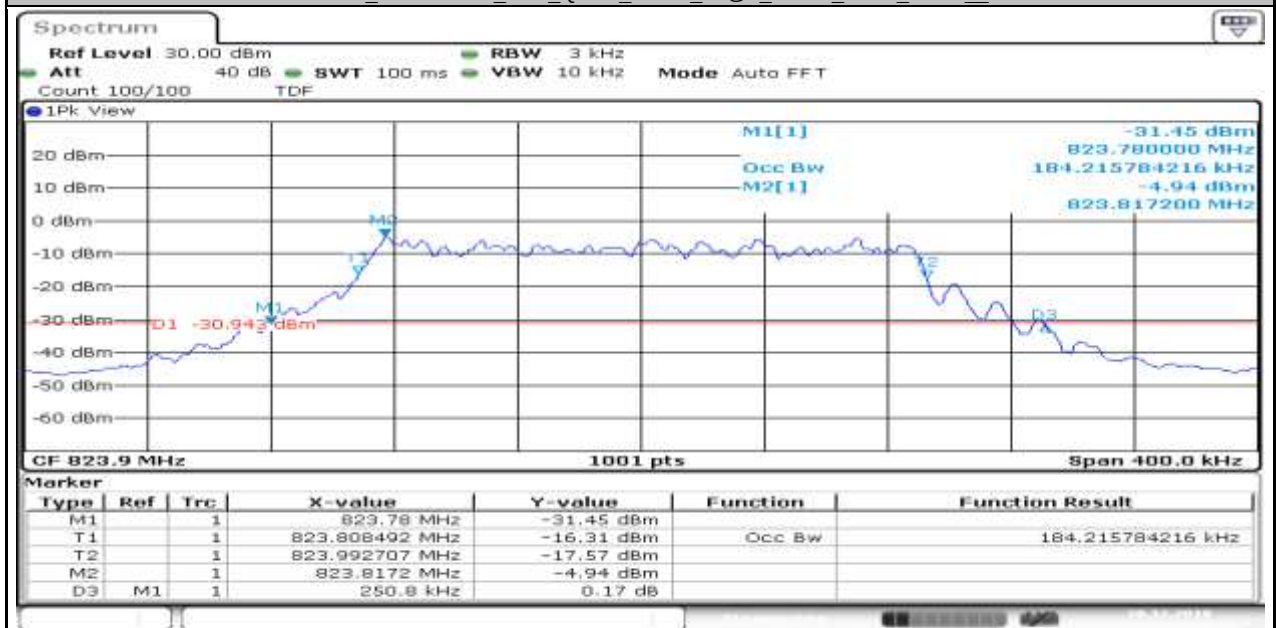


Band26_Stand-Alone_NaN_QPSK_26740_1@0_15kHz_0.117_PASS



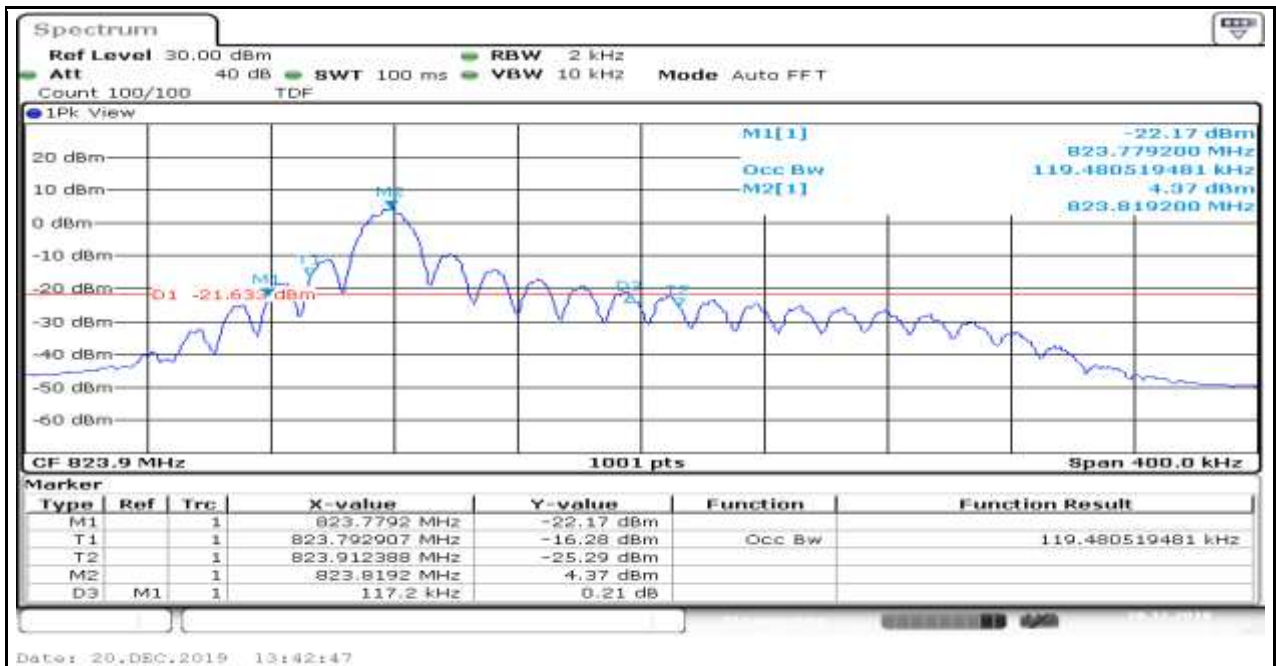
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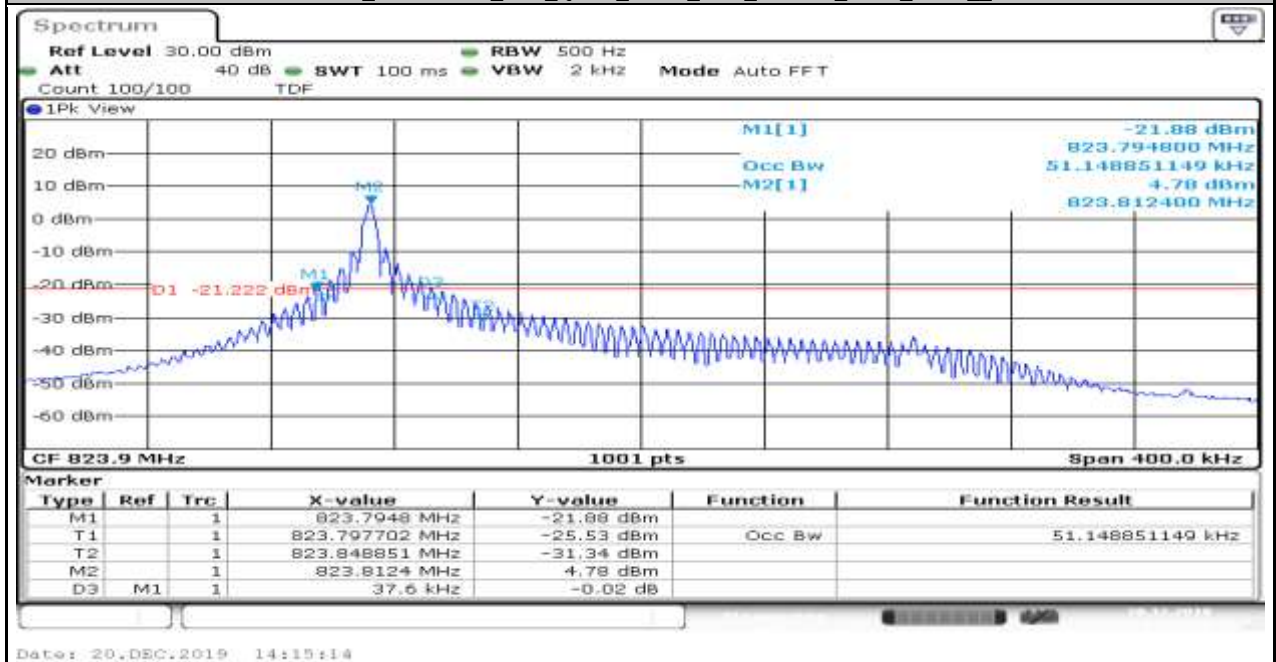


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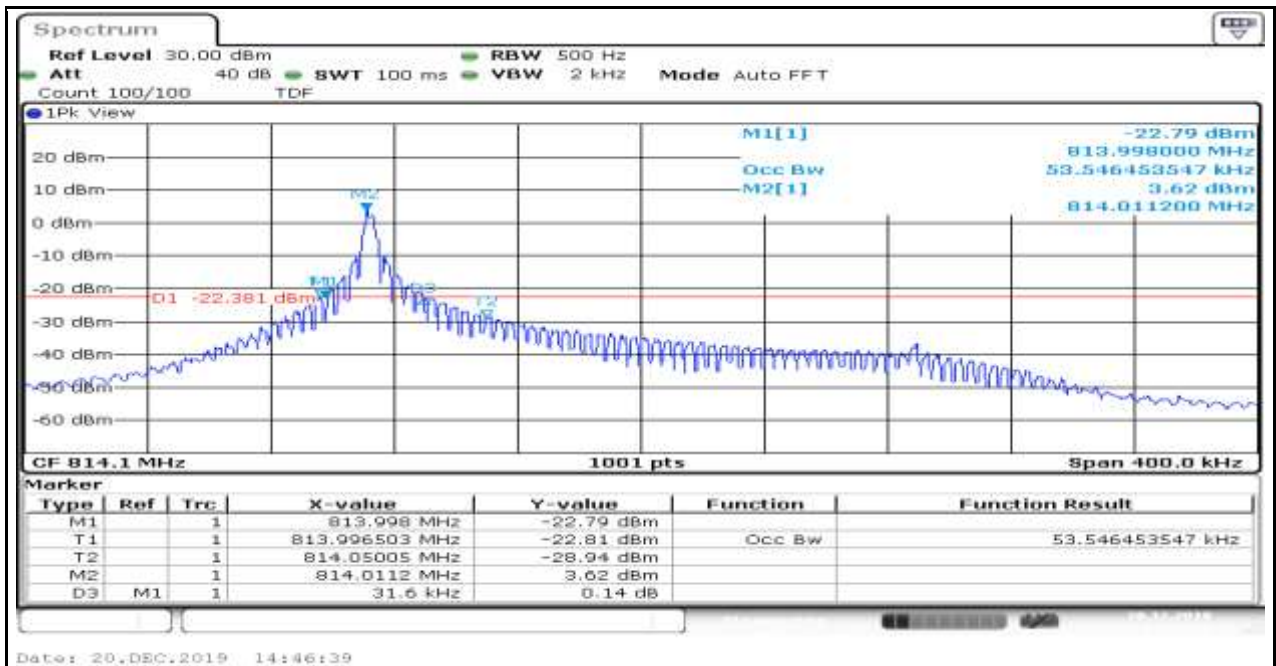
Band26_Stand-Alone_NaN_QPSK_26789_1@0_15kHz_0.117_PASS_



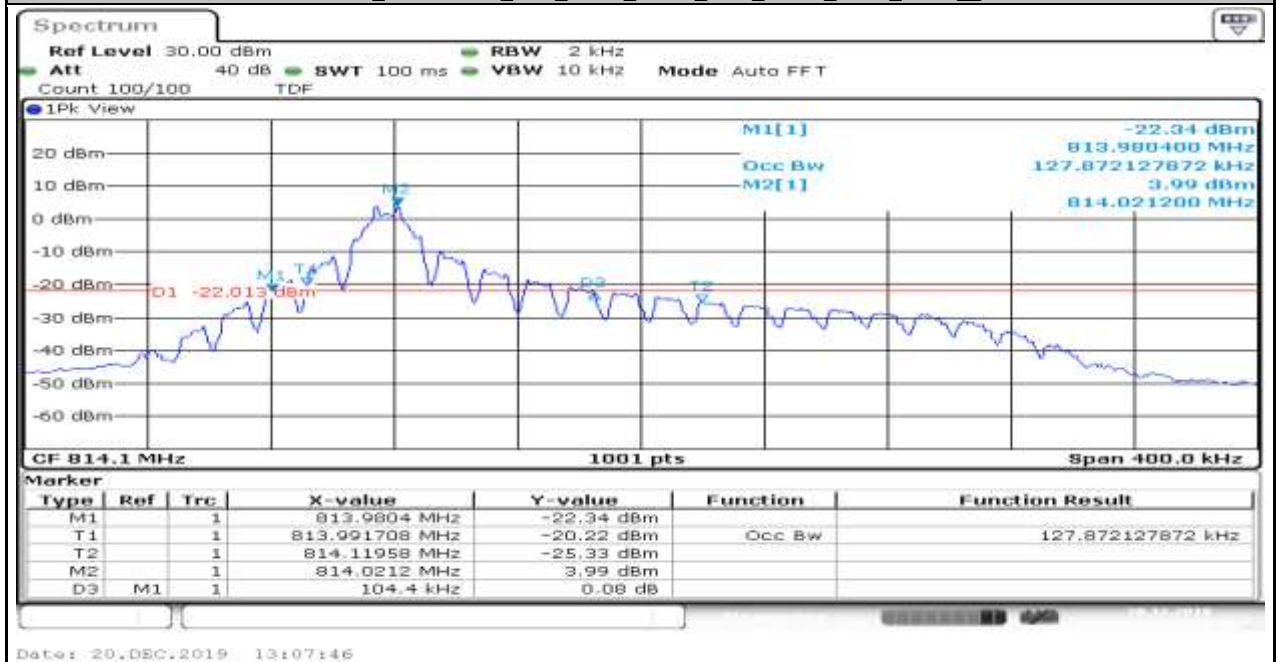
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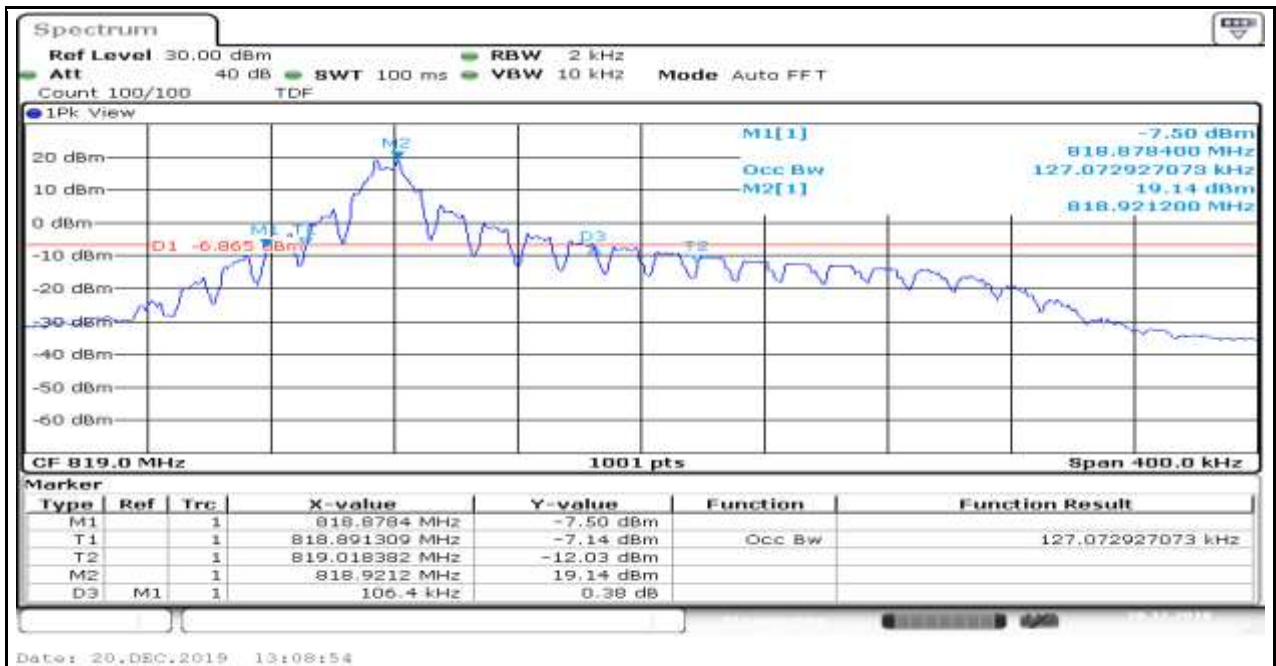
Band26_Stand-Alone_NaN_BPSK_26691_1@0_3.75kHz_0.032_PASS



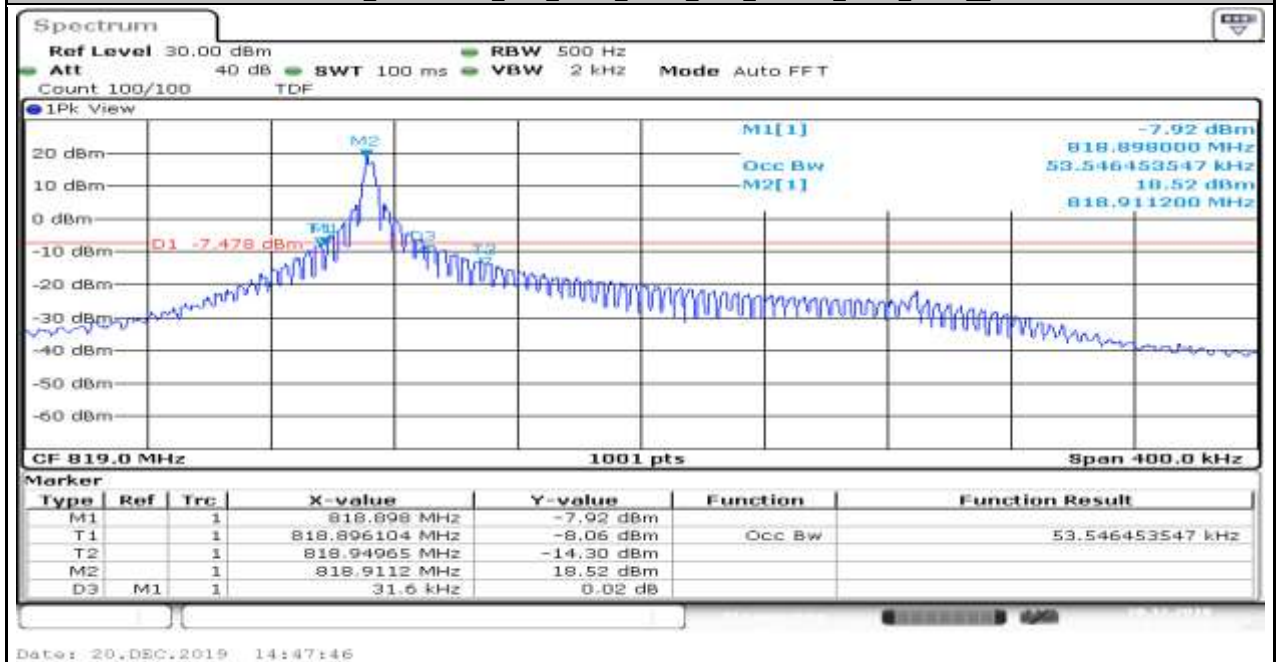
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_0.104_PASS_



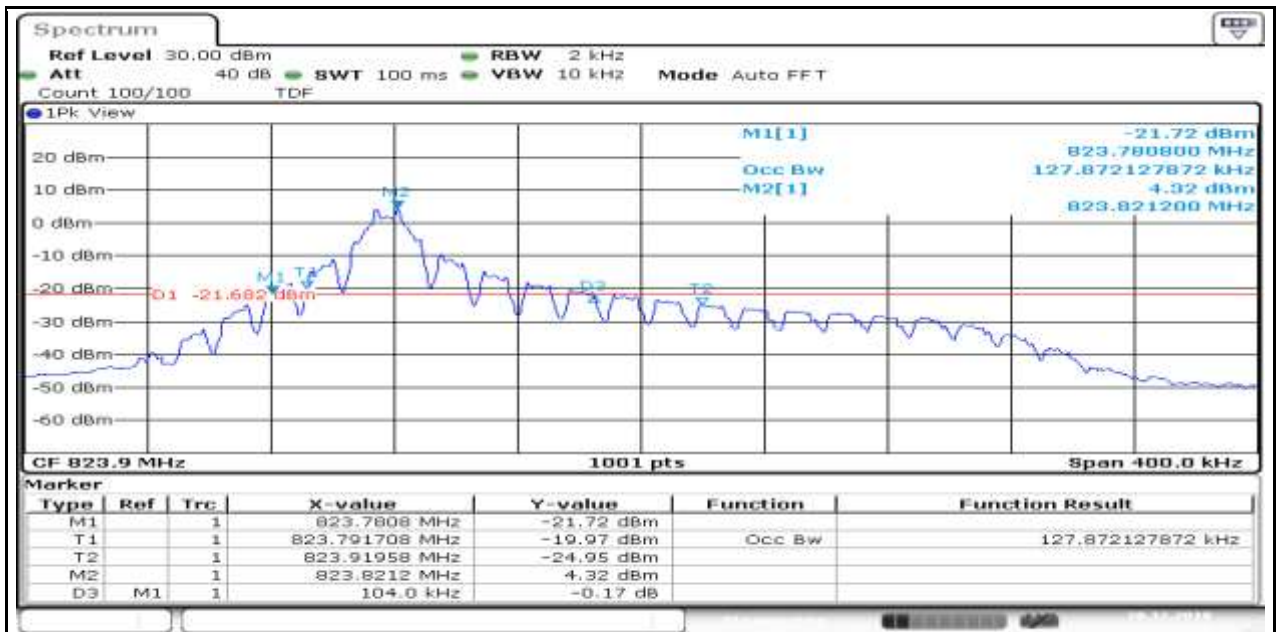
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_0.106_PASS_



Band26_Stand-Alone_NaN_BPSK_26740_1@0_3.75kHz_0.032_PASS_

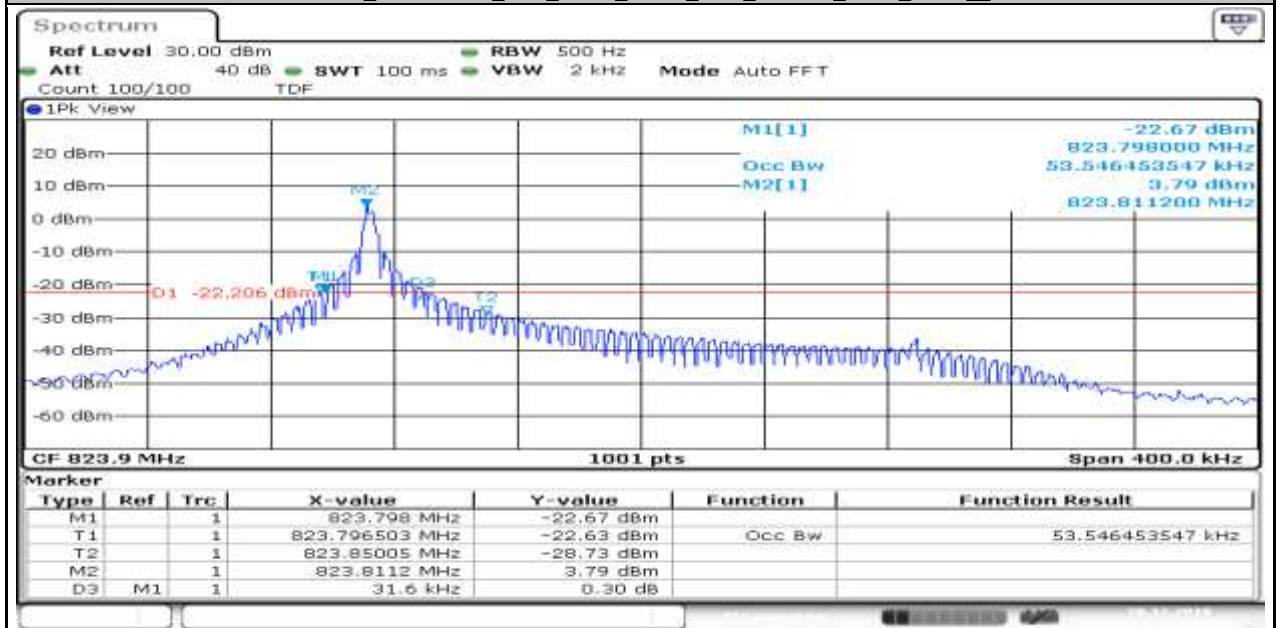


Band26_Stand-Alone_NaN_BPSK_26789_1@0_15kHz_0.104_PASS_



Date: 20.DEC.2019 13:10:01

Band26_Stand-Alone_NaN_BPSK_26789_1@0_3.75kHz_0.032_PASS



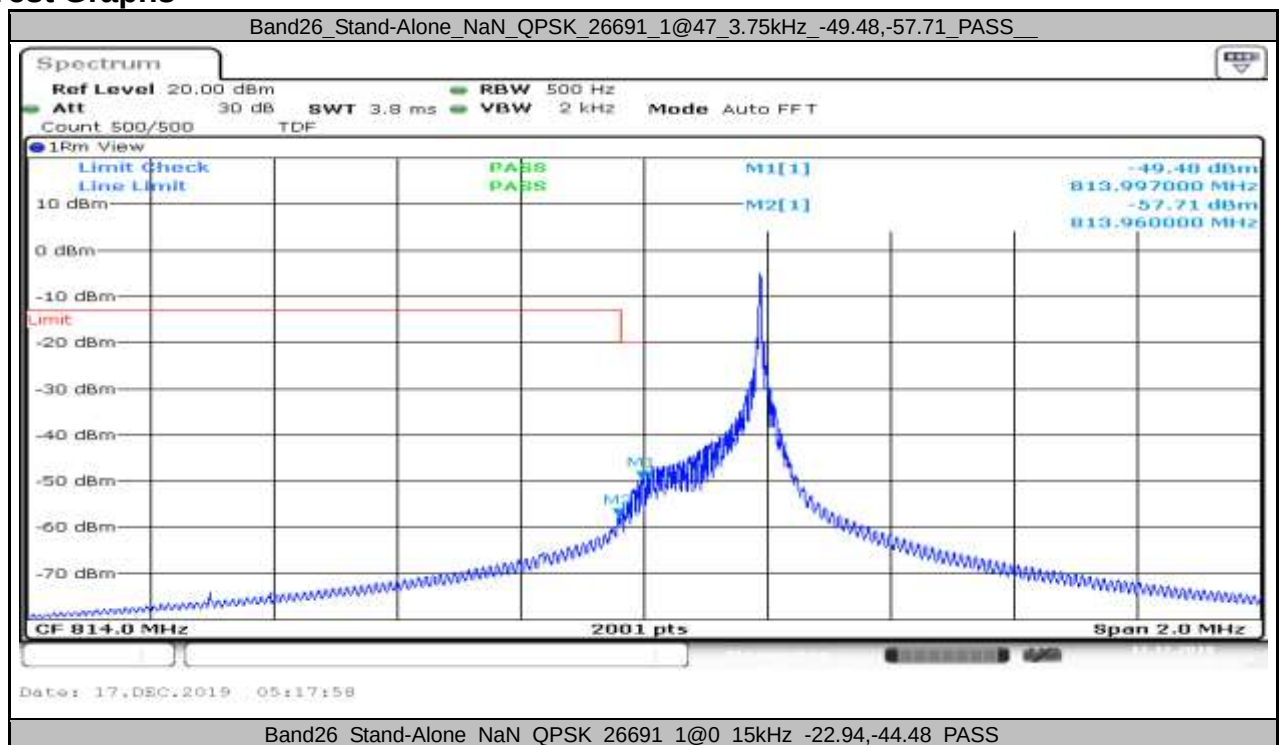
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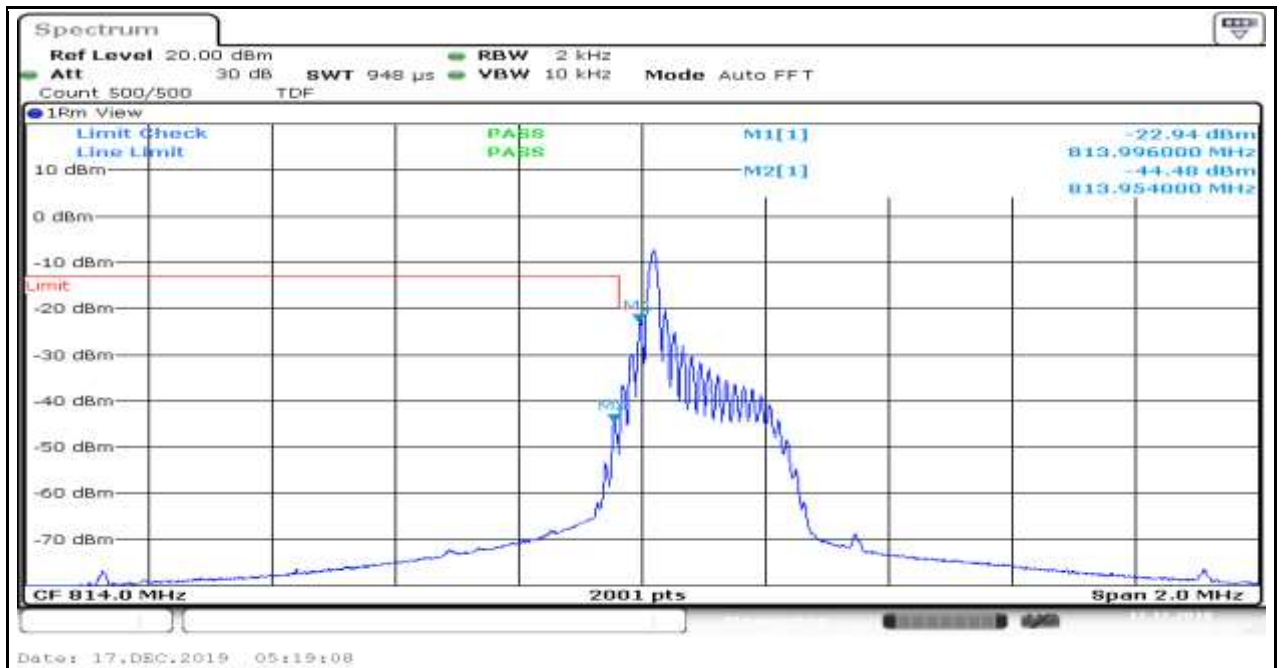
Appendix G.4: Band Edge for NB

Test Result

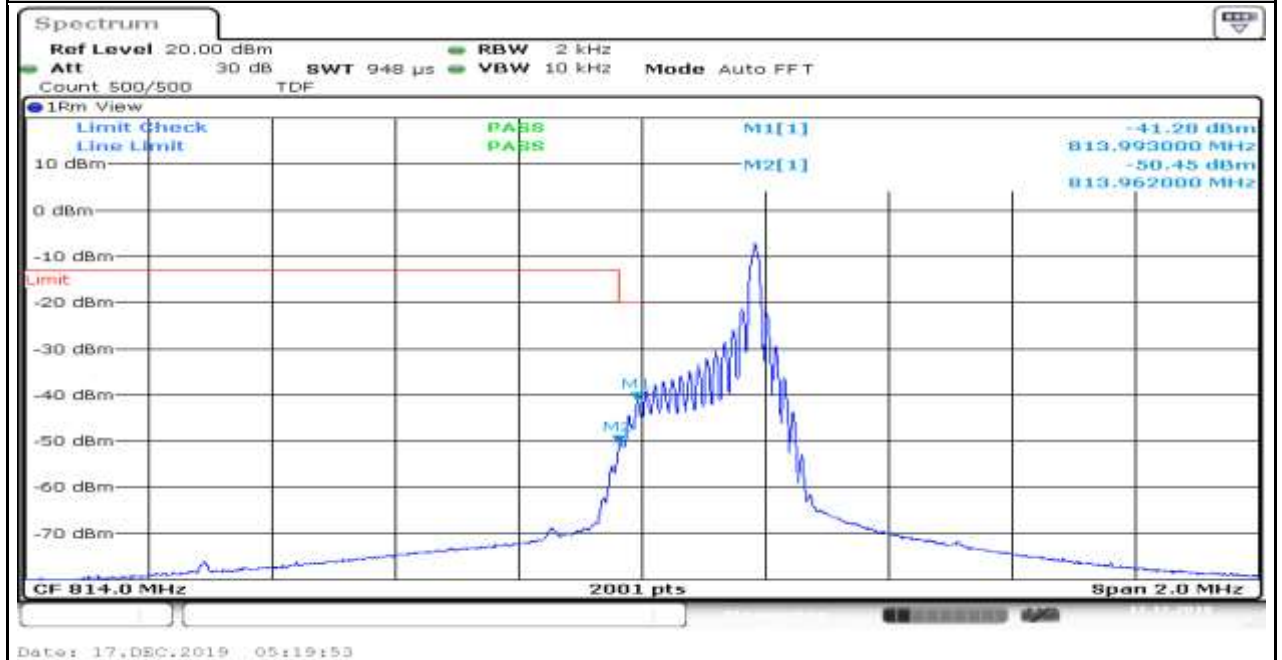
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	-49.48,-57.71	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	15kHz	-22.94,-44.48	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@11	15kHz	-41.28,-50.45	PASS
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	-39.58,-54.50	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	-28.24,-47.86	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	-48.81,-57.67	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	-27.06,-46.59	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	15kHz	-40.89,-50.33	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	-35.75,-53.02	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@11	15kHz	-22.10,-43.54	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	-21.36,-42.71	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	3.75kHz	-26.57,-46.30	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@47	3.75kHz	-48.51,-57.18	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	-39.84,-49.80	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	3.75kHz	-48.06,-56.41	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@47	3.75kHz	-26.62,-46.12	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	-20.88,-42.28	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	-39.41,-49.15	PASS

Test Graphs

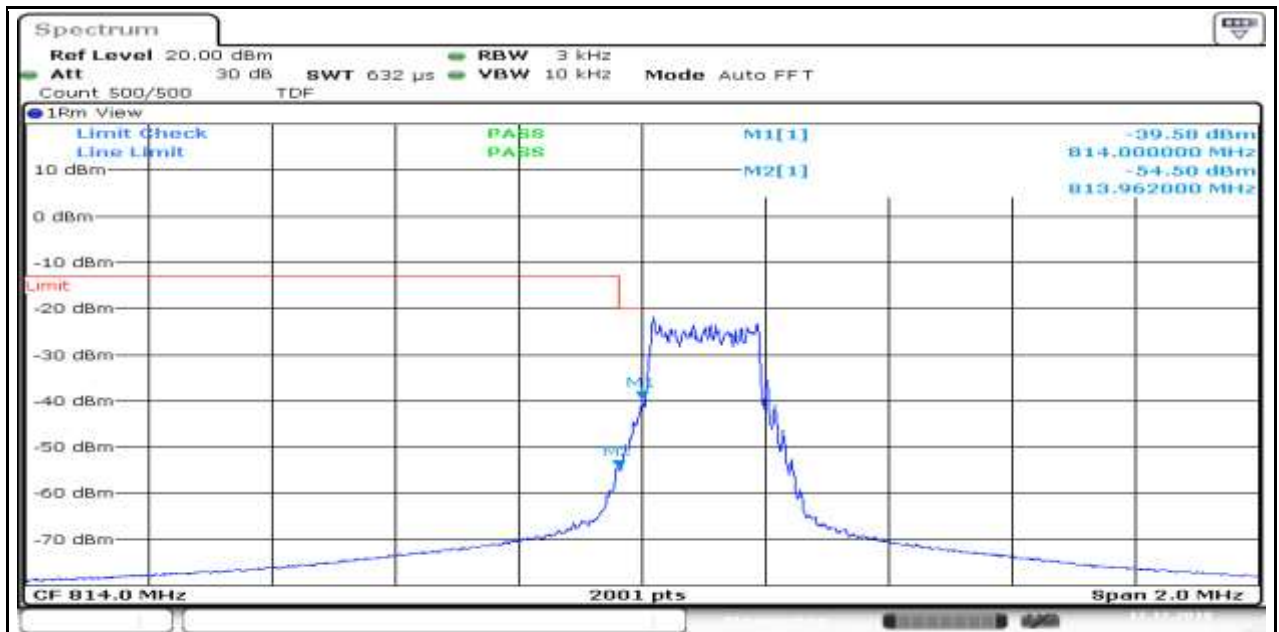




Band26_Stand-Alone_NaN_QPSK_26691_1@11_15kHz_-41.28,-50.45_PASS_

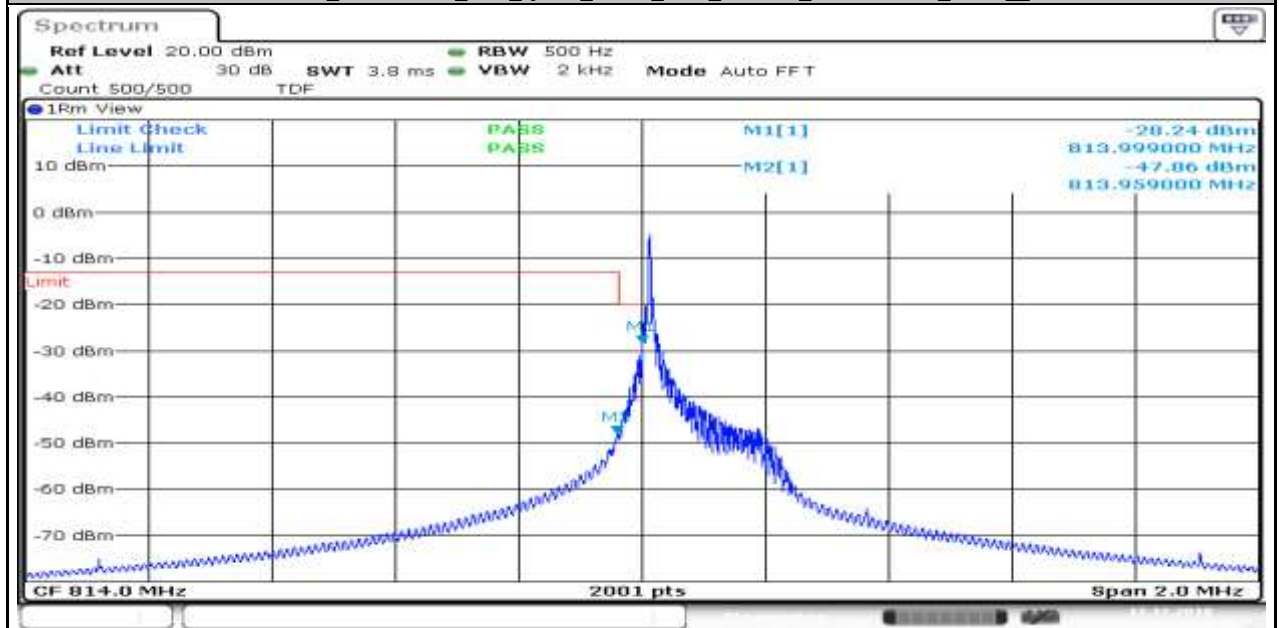


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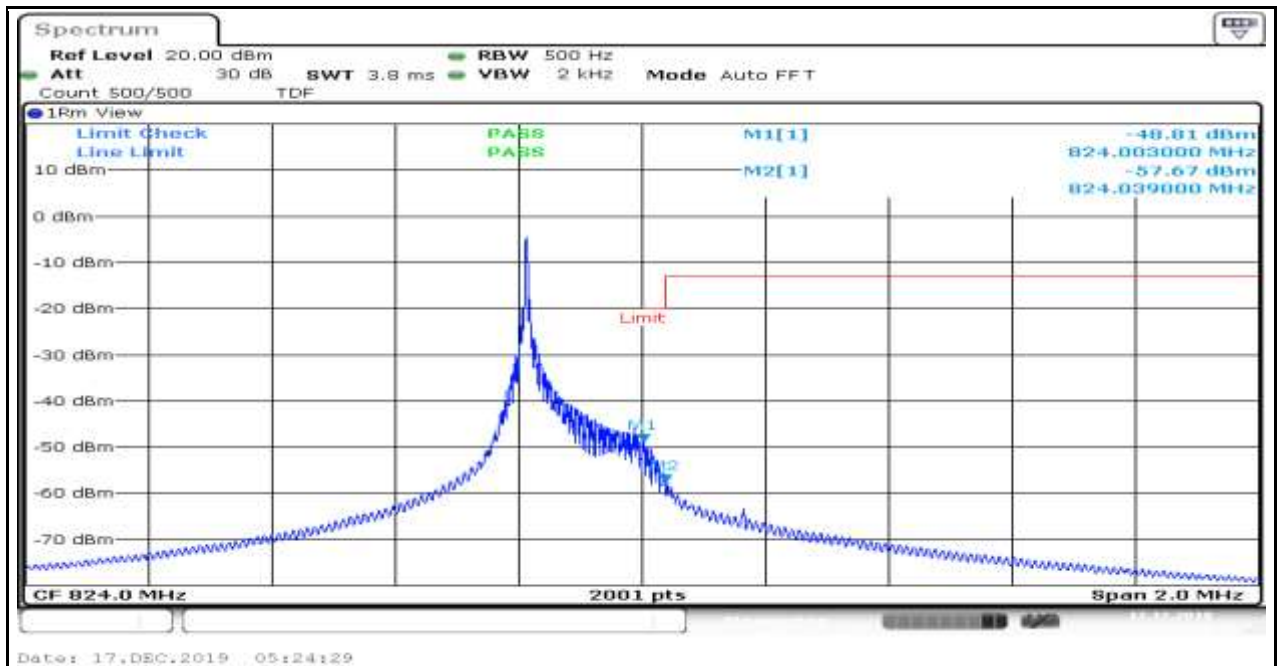
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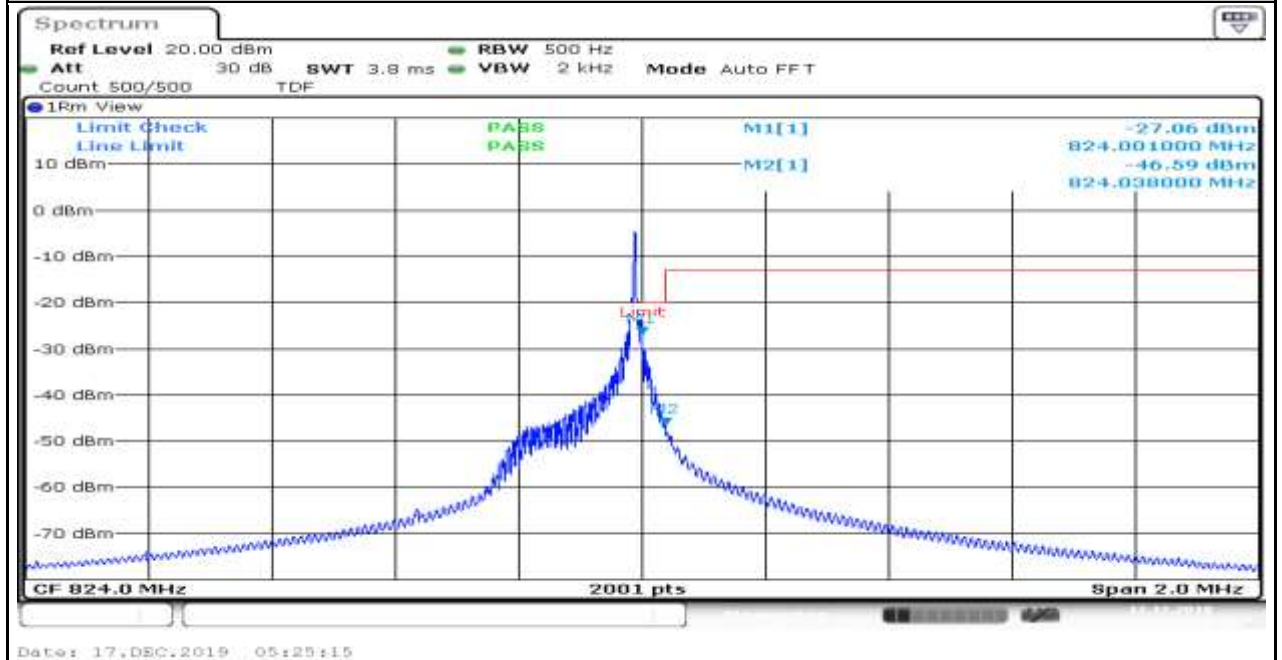


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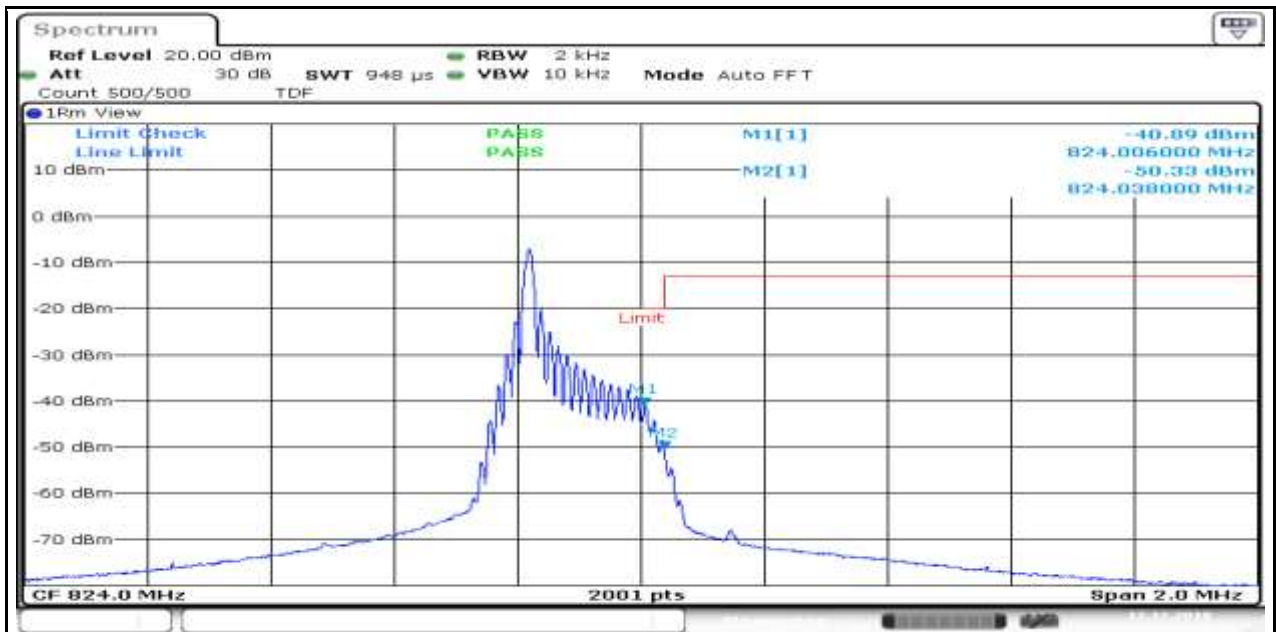
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Band26_Stand-Alone_NaN_QPSK_26789_1@47_3.75kHz_-27.06,-46.59_PASS_

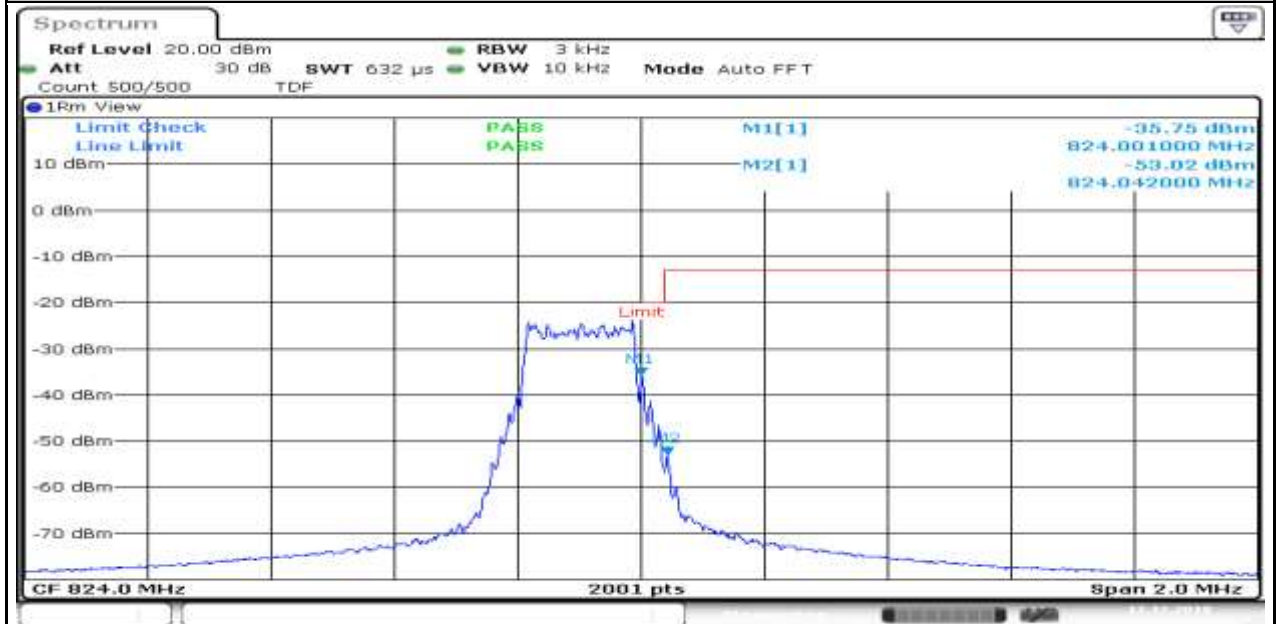


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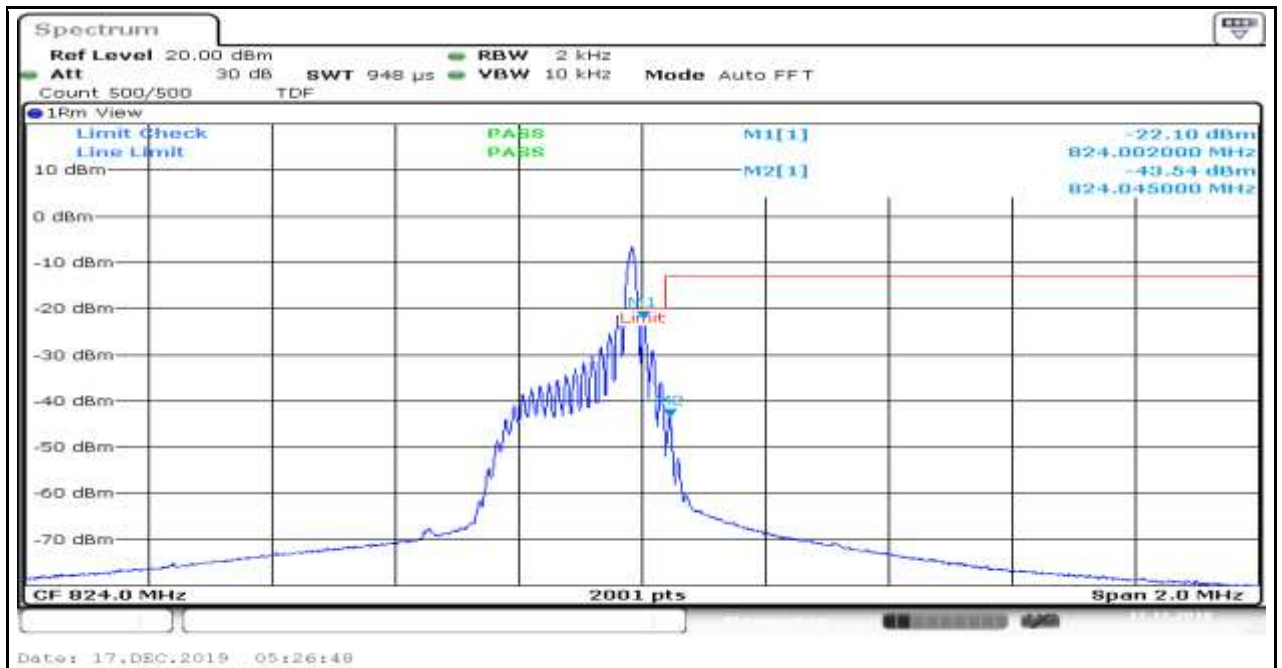
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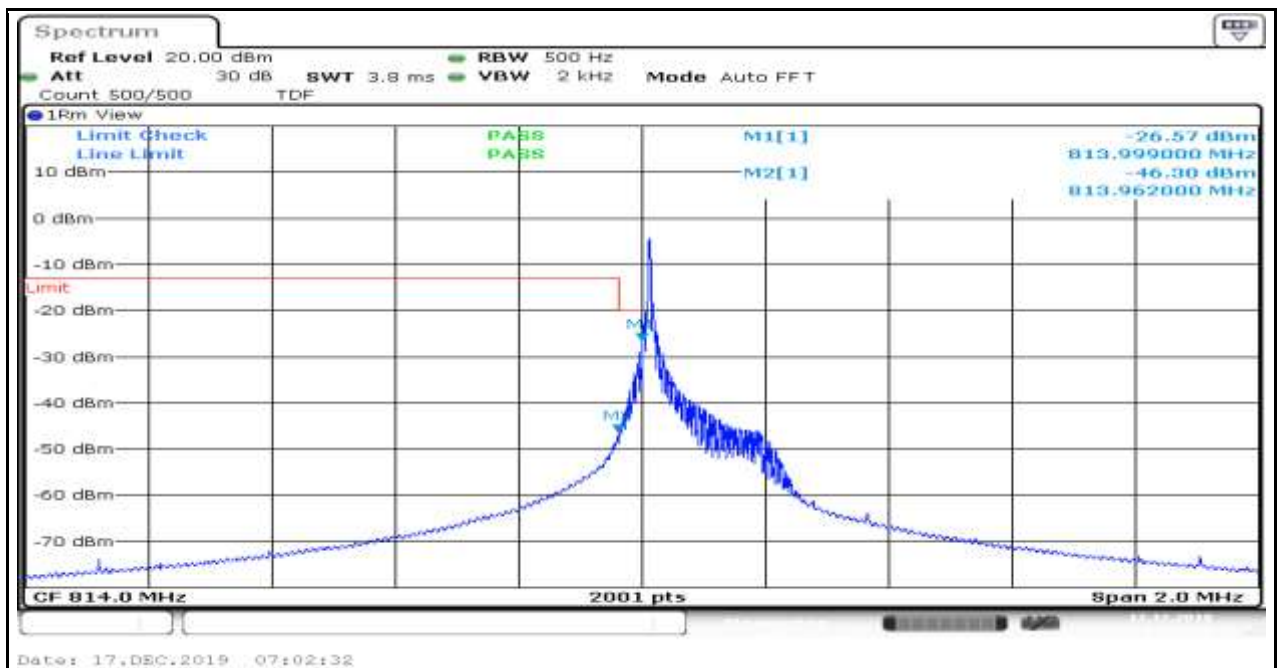
Band26_Stand-Alone_NaN_QPSK_26789_1@11_15kHz_-22.10,-43.54_PASS_



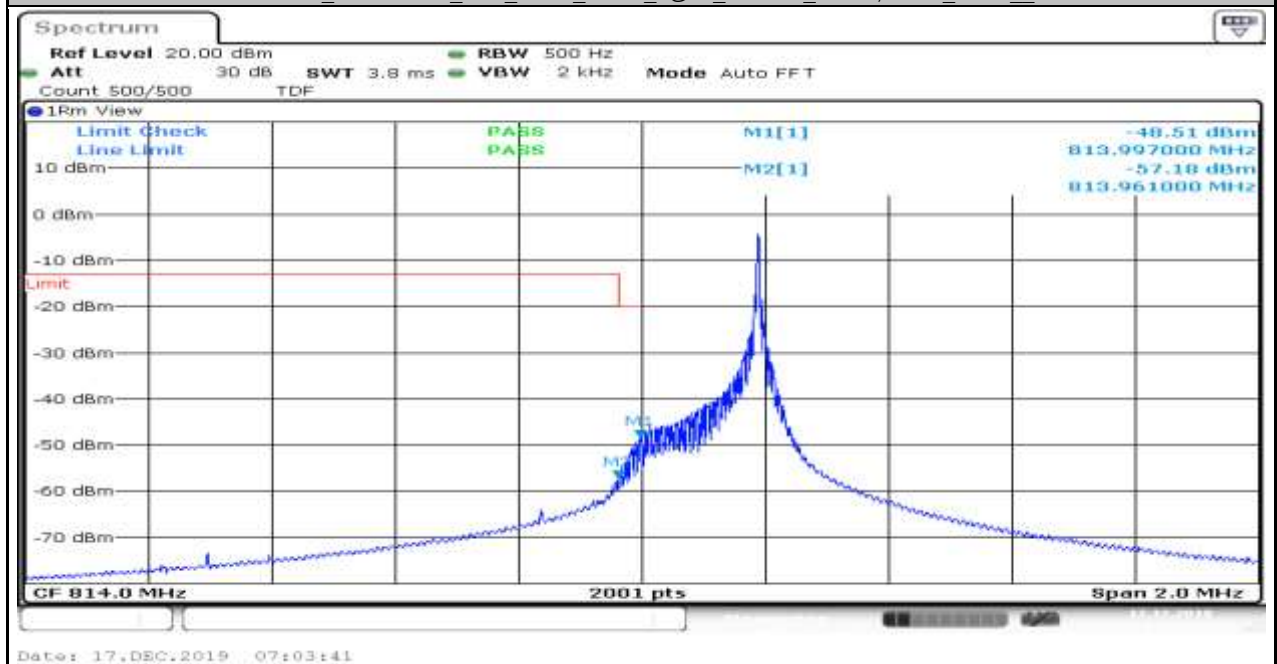
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_-21.36,-42.71_PASS_



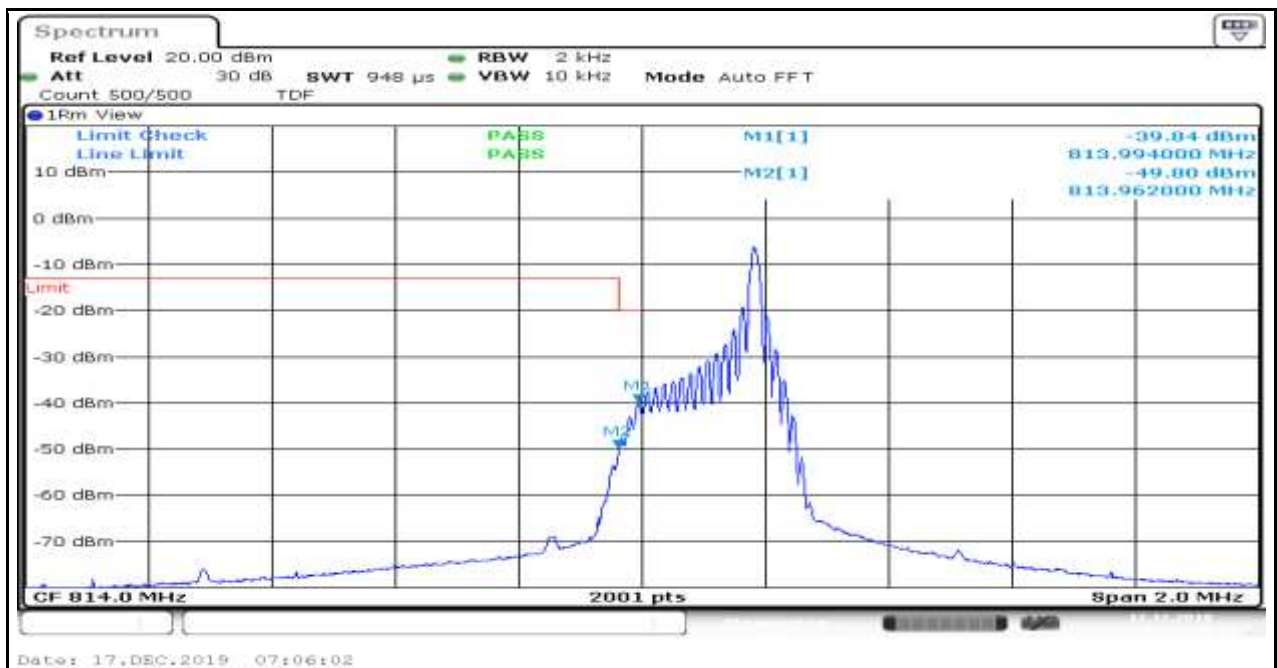
Band26_Stand-Alone_NaN_BPSK_26691_1@0_3.75kHz_-26.57,-46.30_PASS_



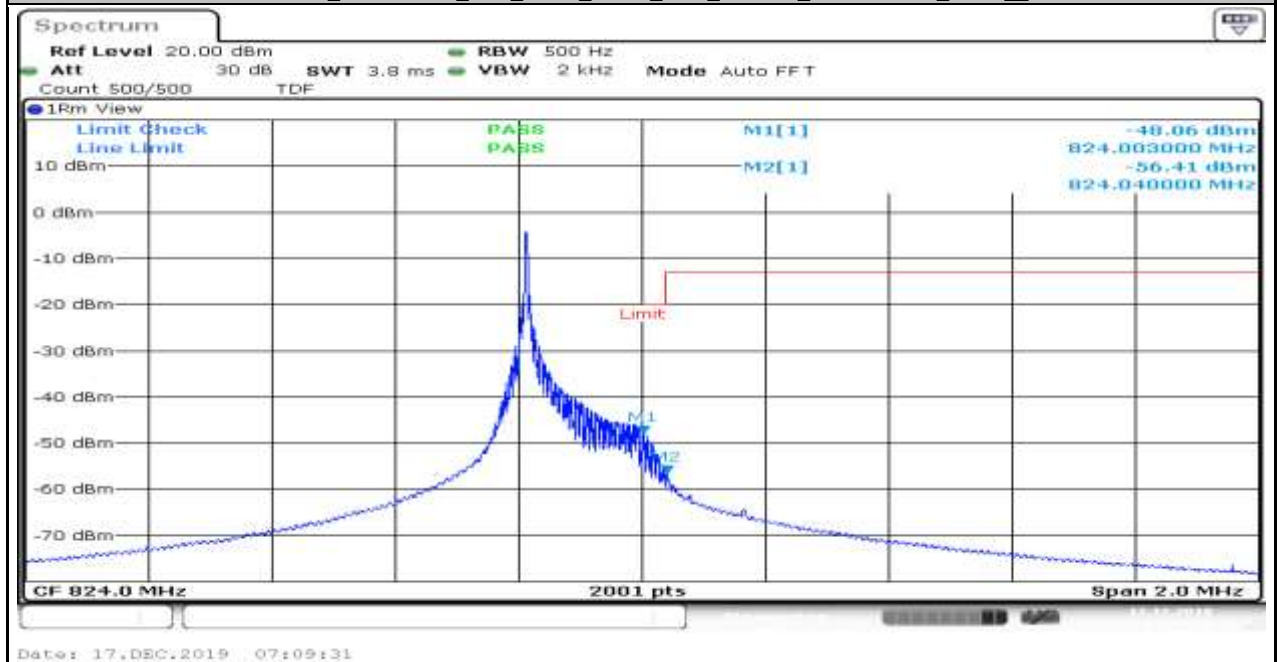
Band26_Stand-Alone_NaN_BPSK_26691_1@47_3.75kHz_-48.51,-57.18_PASS_



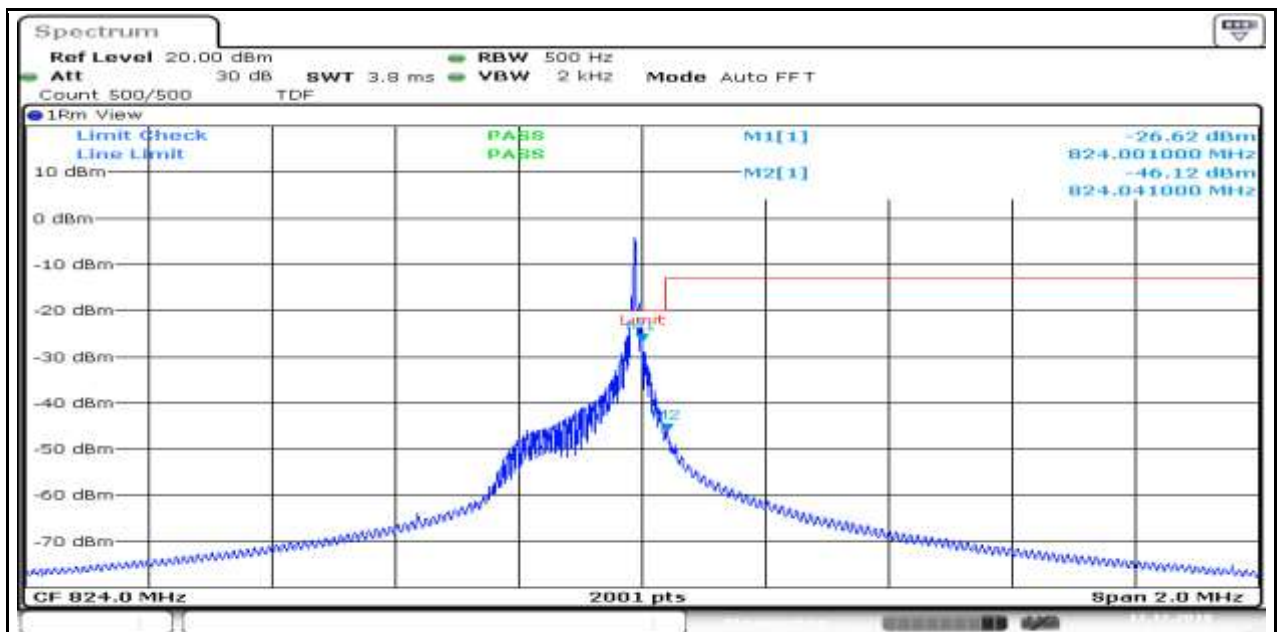
Band26_Stand-Alone_NaN_BPSK_26691_1@11_15kHz_-39.84,-49.80_PASS_



Band26_Stand-Alone_NaN_BPSK_26789_1@0_3.75kHz_-48.06,-56.41_PASS_

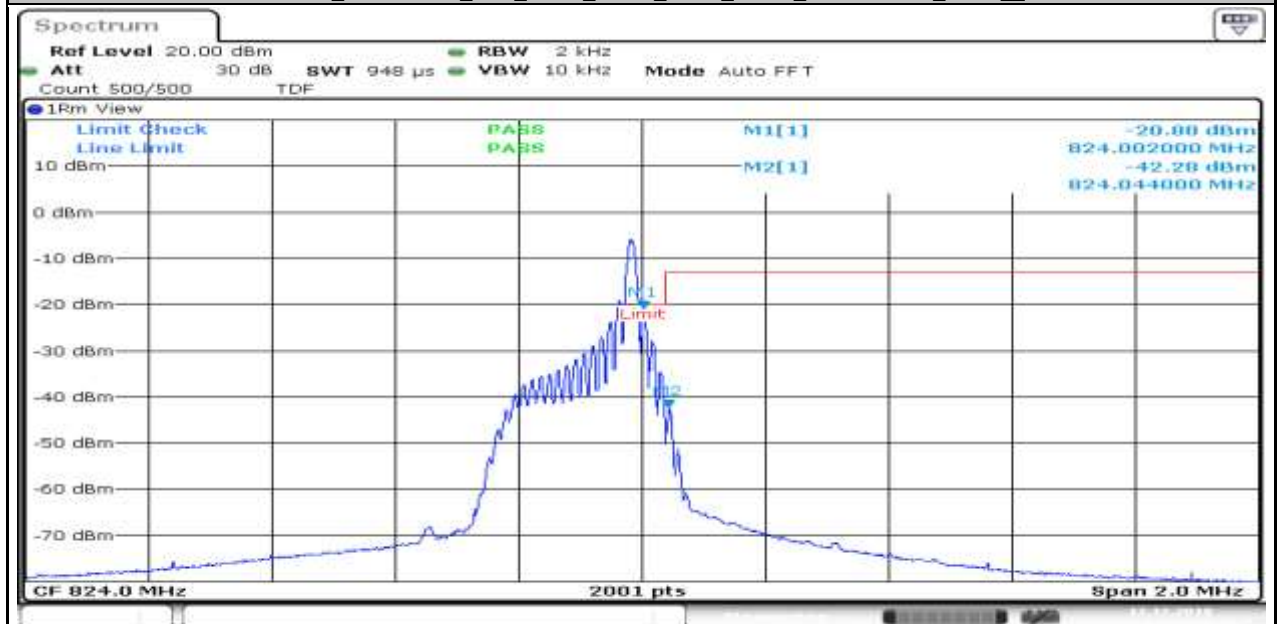


Band26_Stand-Alone_NaN_BPSK_26789_1@47_3.75kHz_-26.62,-46.12_PASS_



Date: 17.DEC.2019 07:10:41

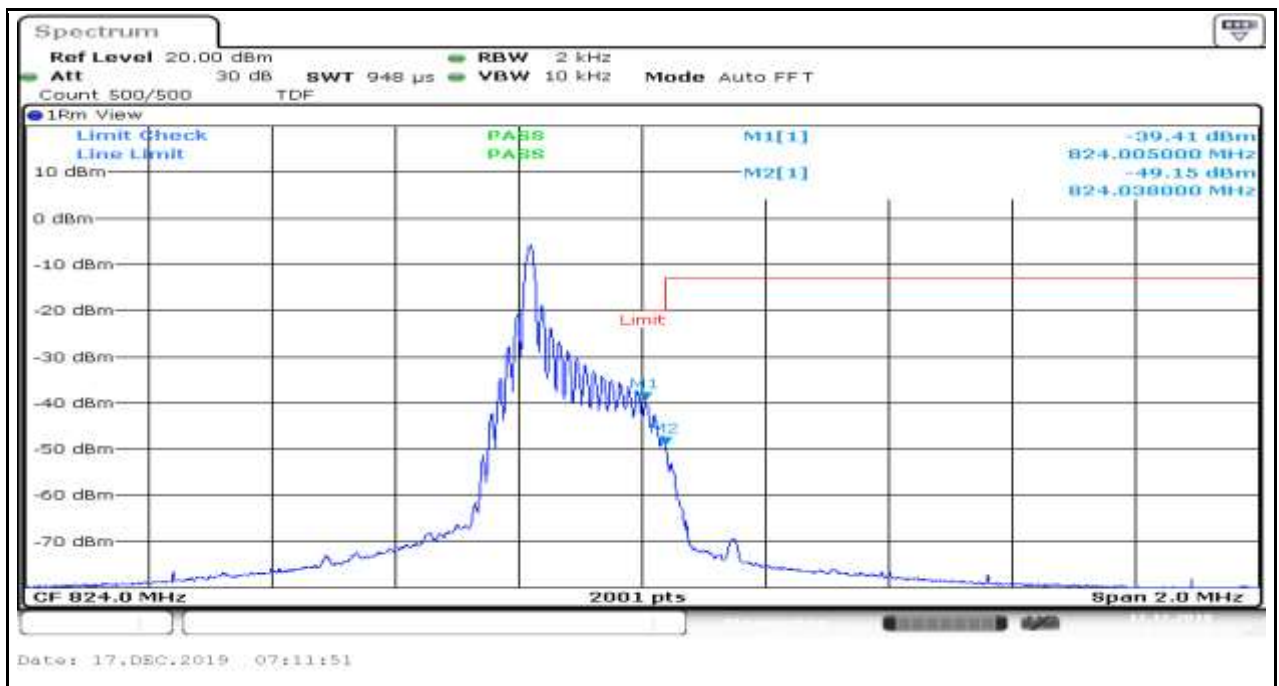
Band26_Stand-Alone_NaN_BPSK_26789_1@11_15kHz_-20.88,-42.28_PASS_



Date: 17.DEC.2019 07:13:00

Band26_Stand-Alone_NaN_BPSK_26789_1@0_15kHz_-39.41,-49.15_PASS_

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Appendix G.5: Conducted Spurious Emission for NB

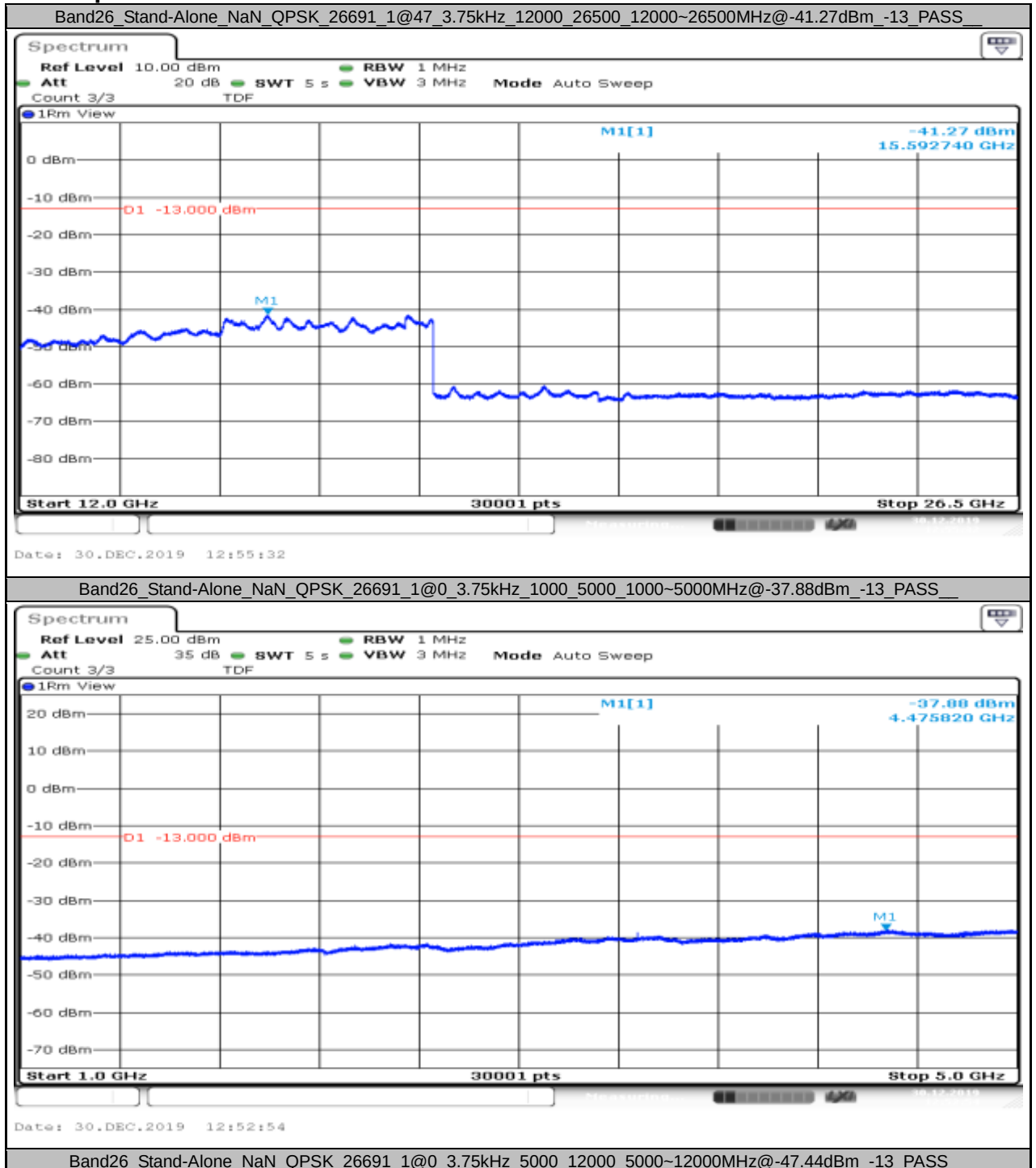
Test Result

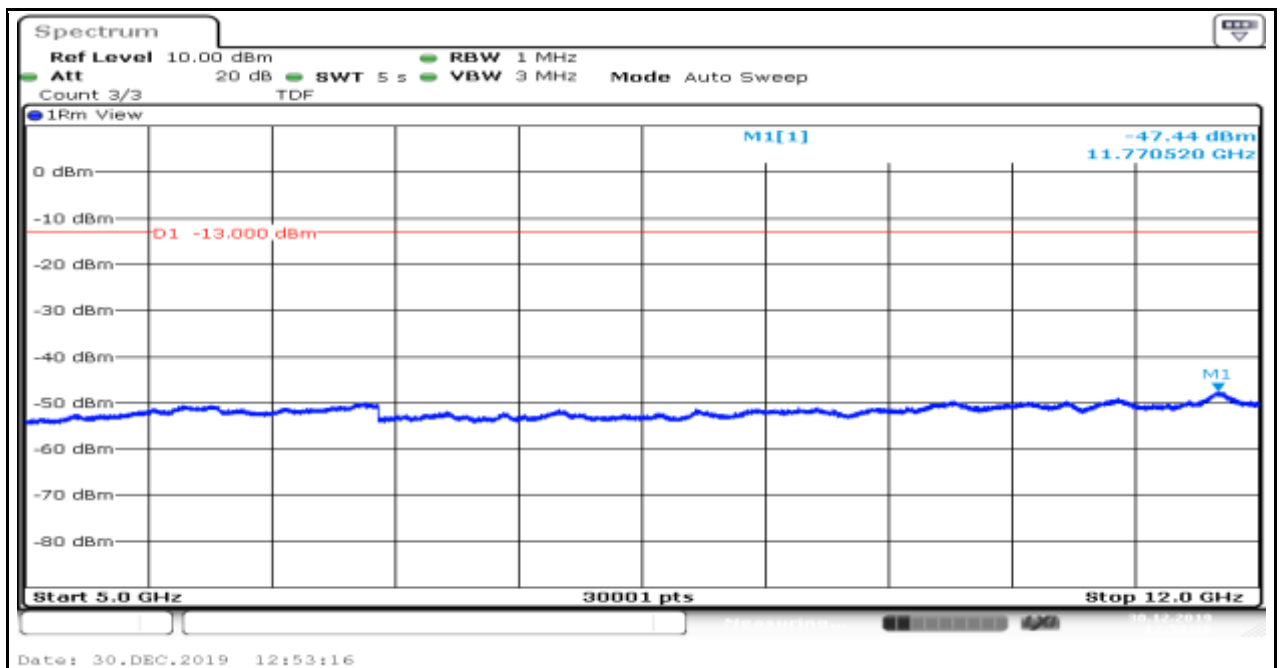
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.27dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.88dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.44dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.4dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	30	1000	30~1000MHz@-35.9dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.7dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.4dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	1000	5000	1000~5000MHz@-37.83dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	1@0	3.75kHz	30	1000	30~1000MHz@-36.32dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	30	1000	30~1000MHz@-36.12dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	5000	12000	5000~12000MHz@-47.56dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26691	12@0	15kHz	12000	26500	12000~26500MHz@-41.38dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	12@0	15kHz	30	1000	30~1000MHz@-36.2dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	12@0	15kHz	5000	12000	5000~12000MHz@-47.52dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	30	1000	30~1000MHz@-35.6dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	12@0	15kHz	1000	5000	1000~5000MHz@-37.81dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.42dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	12@0	15kHz	12000	26500	12000~26500MHz@-41.33dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.65dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.51dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.29dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.78dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	30	1000	30~1000MHz@-36.12dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.53dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	30	1000	30~1000MHz@-35.72dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	1000	5000	1000~5000MHz@-37.9dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	12000	26500	12000~26500MHz@-41.37dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	30	1000	30~1000MHz@-36.05dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	12000	26500	12000~26500MHz@-41.38dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	5000	12000	5000~12000MHz@-47.36dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	30	1000	30~1000MHz@-35.95dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	12@0	15kHz	5000	12000	5000~12000MHz@-47.51dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	5000	12000	5000~12000MHz@-47.17dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	12000	26500	12000~26500MHz@-41.44dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@47	3.75kHz	1000	5000	1000~5000MHz@-37.9dBm	-13	PASS
Band26	Stand-Alone	NaN	QPSK	26789	1@0	3.75kHz	1000	5000	1000~5000MHz@-37.66dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	12000	26500	12000~26500MHz@-41.28dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	1000	5000	1000~5000MHz@-37.74dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	5000	12000	5000~12000MHz@-47.37dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	12000	26500	12000~26500MHz@-41.25dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	5000	12000	5000~12000MHz@-47.29dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	1000	5000	1000~5000MHz@-37.77dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@11	15kHz	30	1000	30~1000MHz@-35.54dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26691	1@0	15kHz	30	1000	30~1000MHz@-35.63dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	12000	26500	12000~26500MHz@-41.46dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	30	1000	30~1000MHz@-35.4dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	1000	5000	1000~5000MHz@-37.93dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	5000	12000	5000~12000MHz@-47.4dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@0	15kHz	12000	26500	12000~26500MHz@-41.41dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	30	1000	30~1000MHz@-35.89dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	5000	12000	5000~12000MHz@-47.49dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26740	1@11	15kHz	1000	5000	1000~5000MHz@-37.85dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	1000	5000	1000~5000MHz@-37.83dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	5000	12000	5000~12000MHz@-47.38dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	12000	26500	12000~26500MHz@-41.36dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	30	1000	30~1000MHz@-35.64dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	1000	5000	1000~5000MHz@-37.73dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	12000	26500	12000~26500MHz@-41.39dBm	-13	PASS

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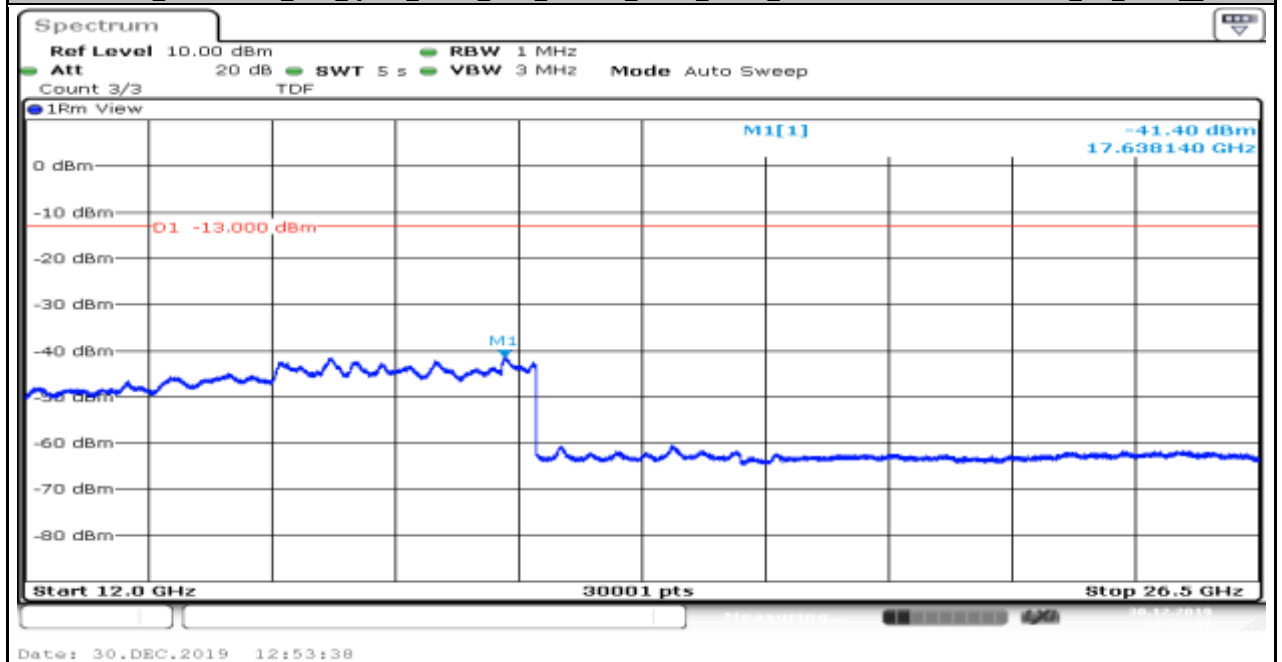
Band26	Stand-Alone	NaN	BPSK	26789	1@11	15kHz	5000	12000	5000~12000MHz@-47.43dBm	-13	PASS
Band26	Stand-Alone	NaN	BPSK	26789	1@0	15kHz	30	1000	30~1000MHz@-36.17dBm	-13	PASS

Test Graphs

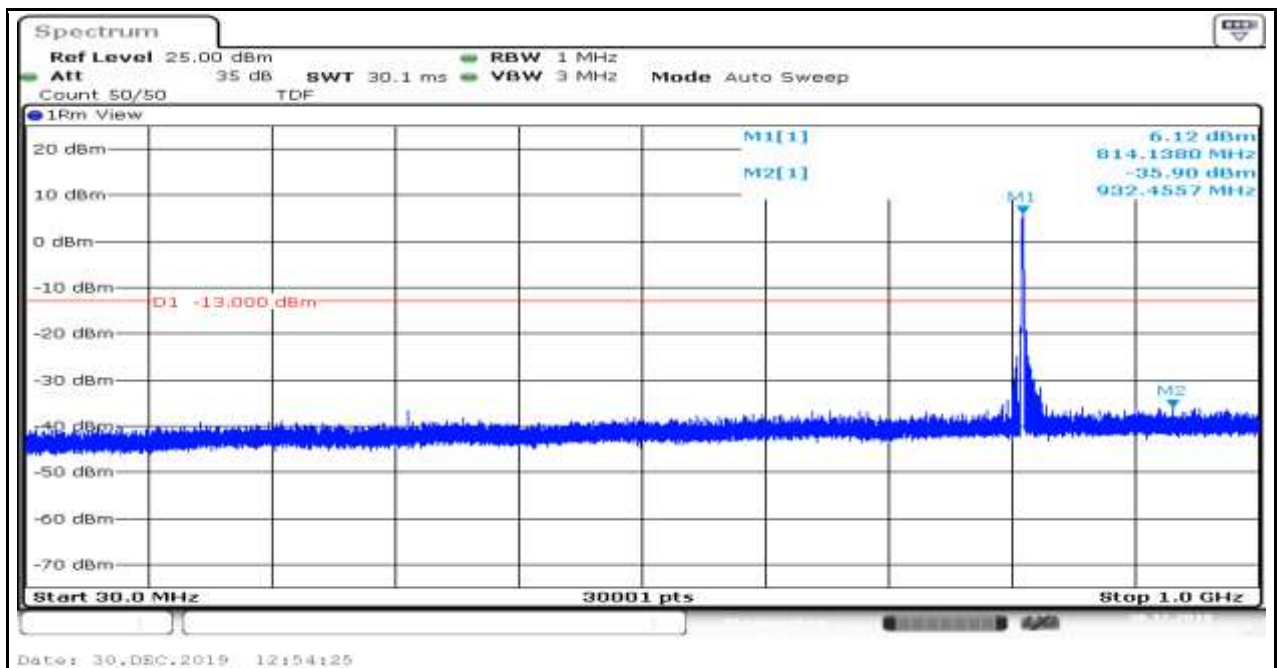




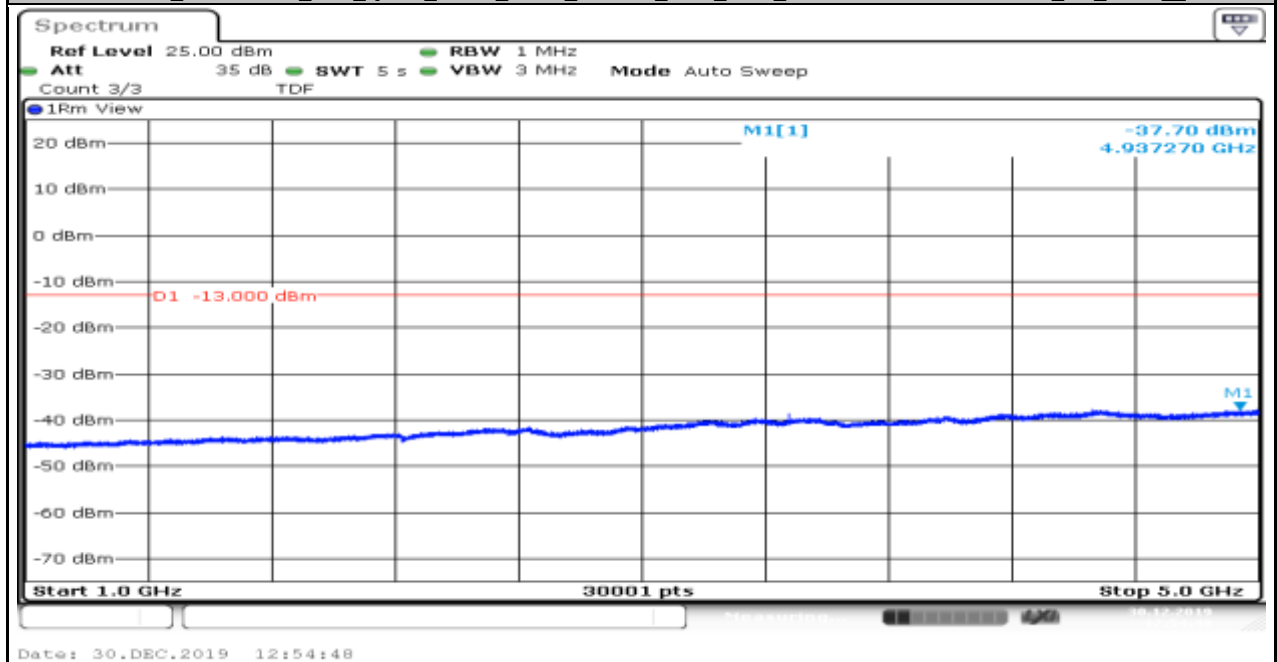
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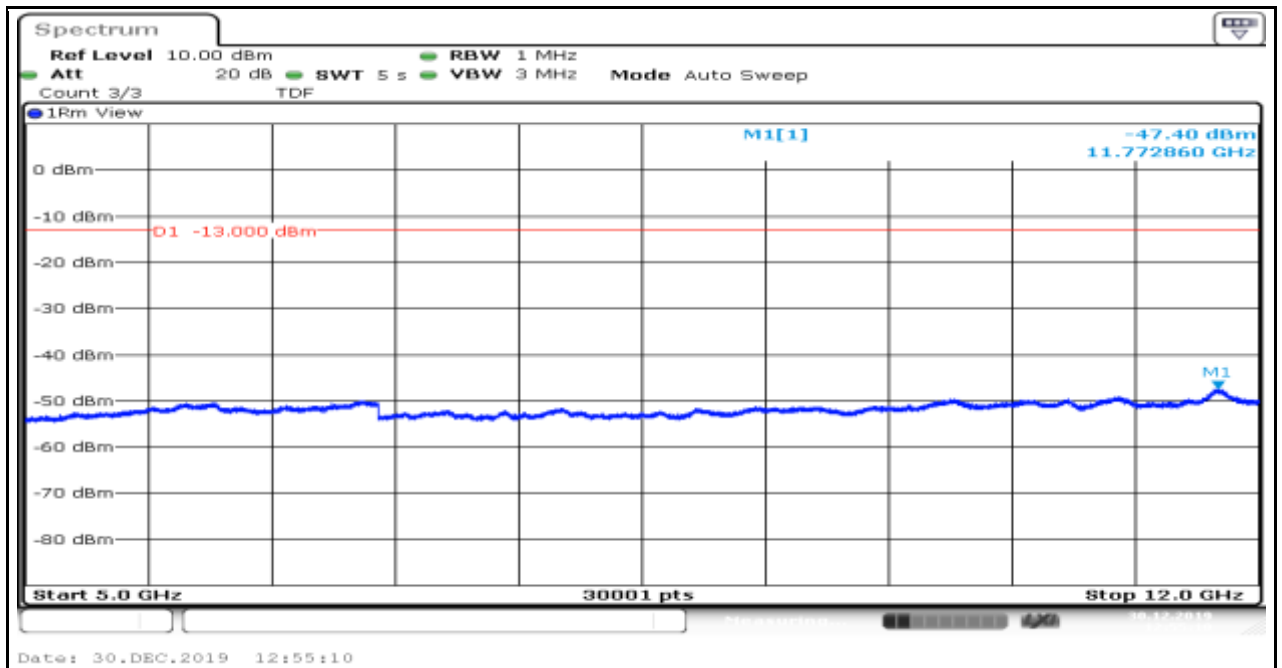
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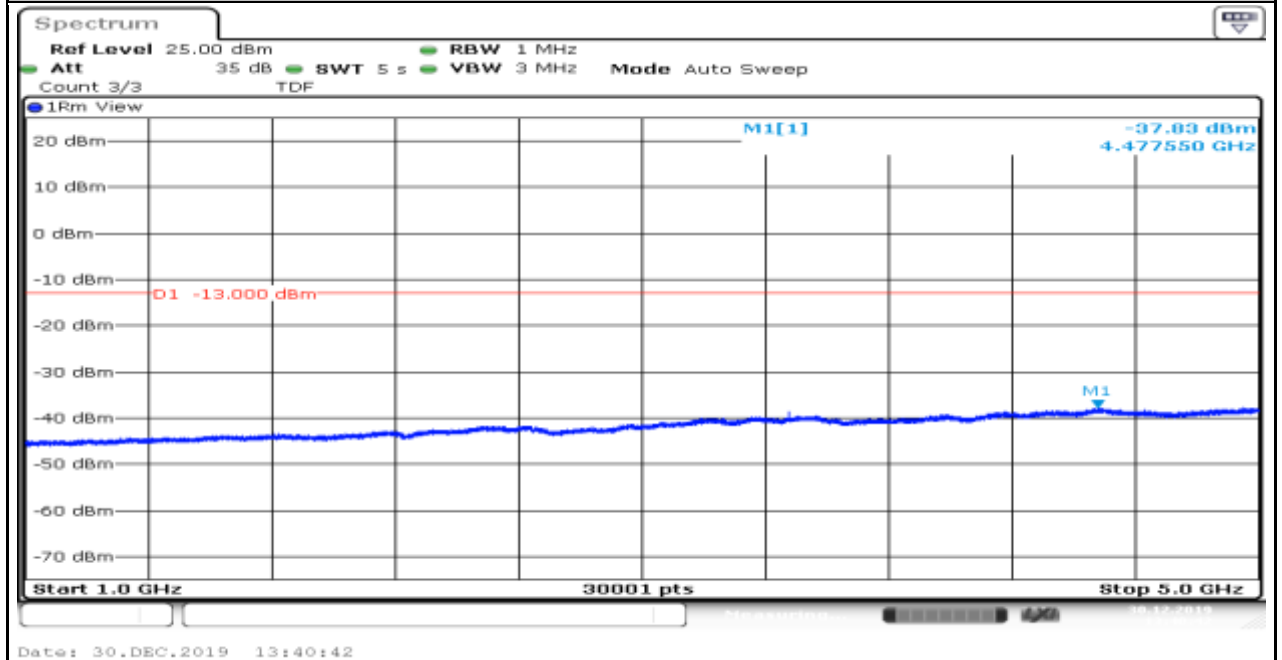
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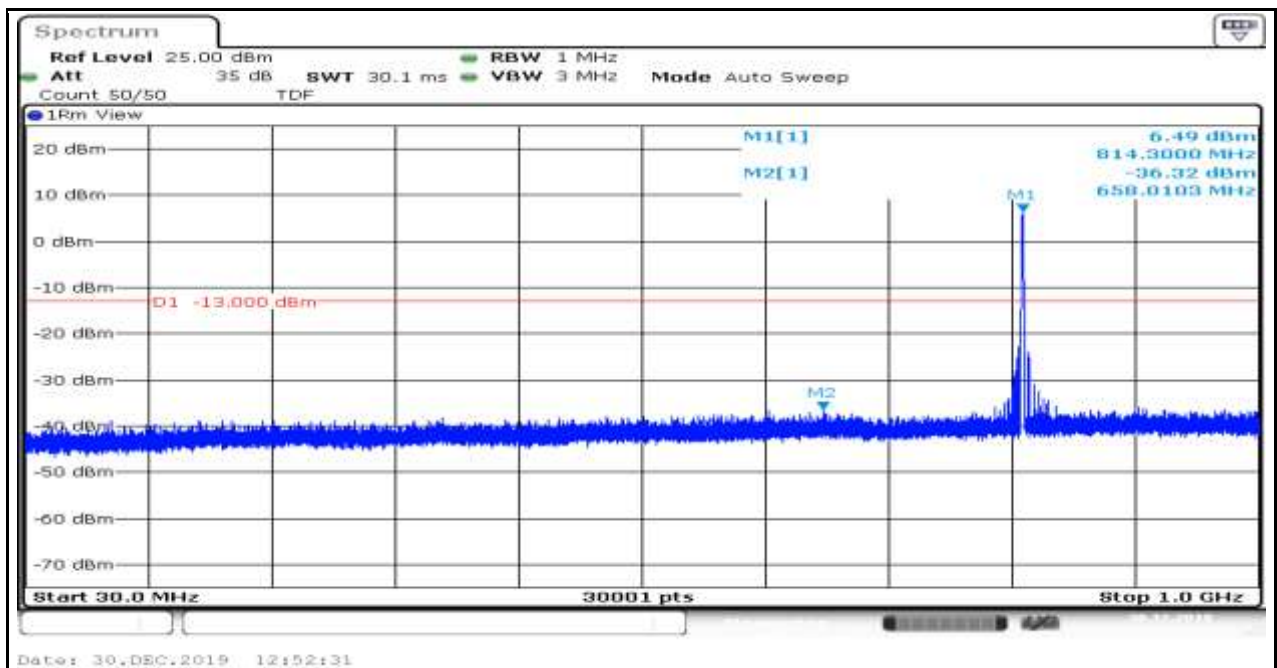
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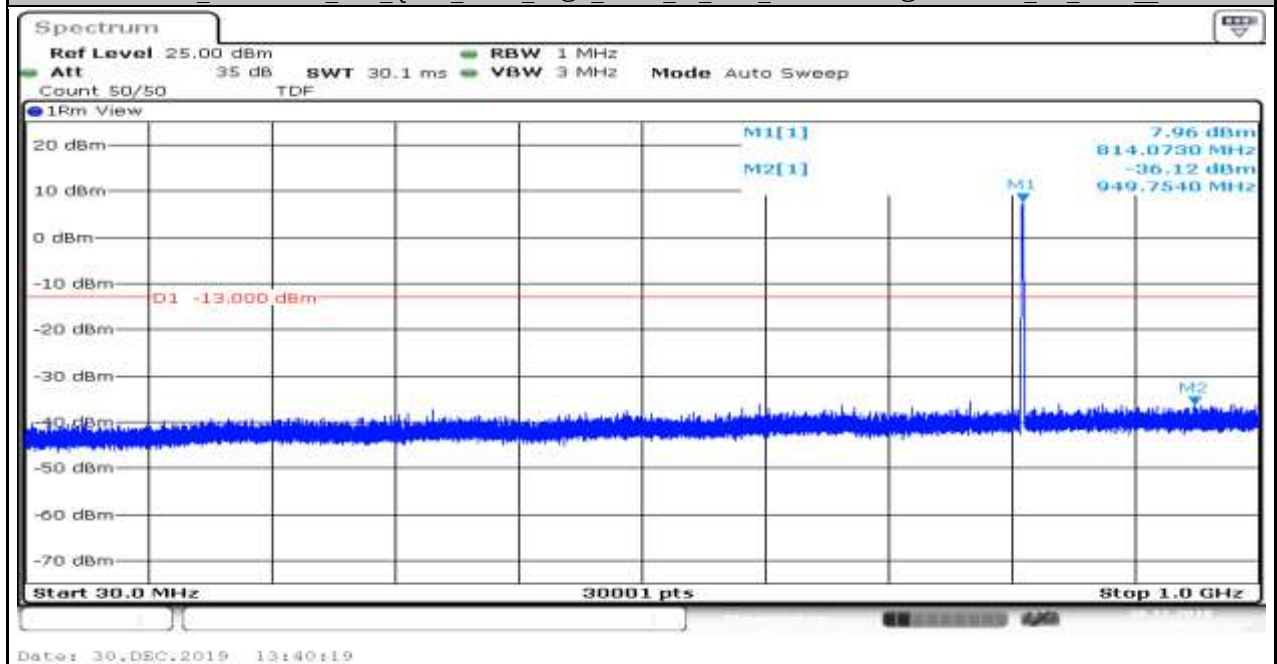
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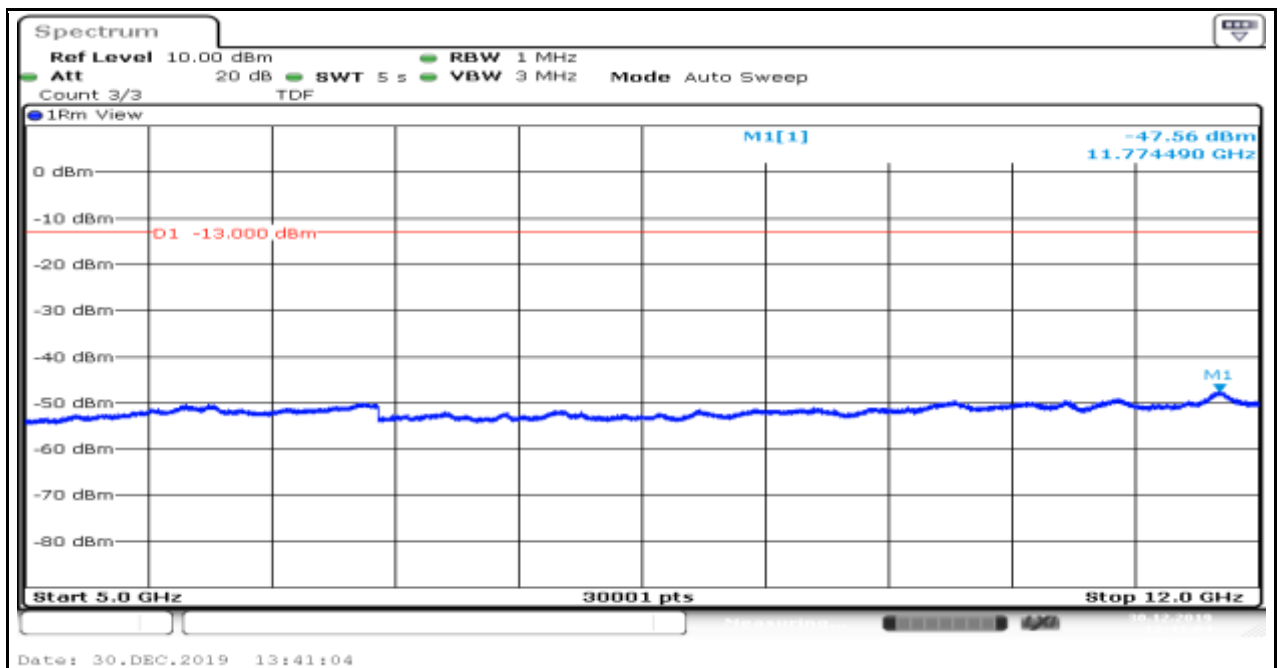
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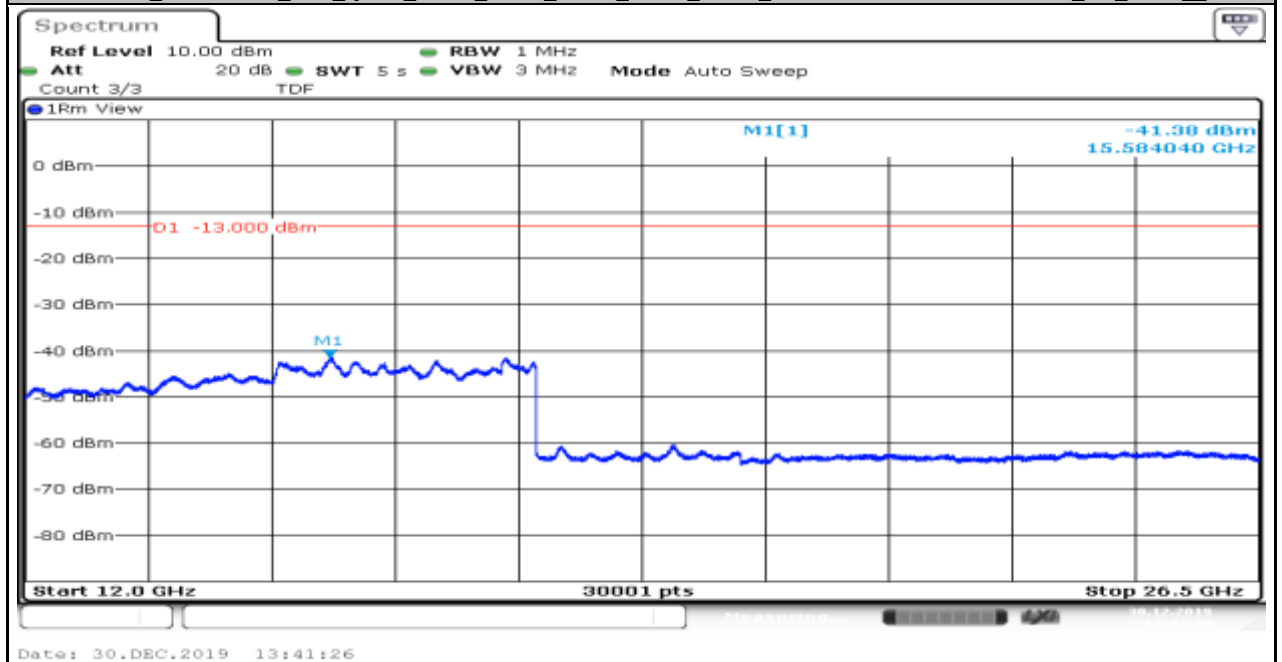
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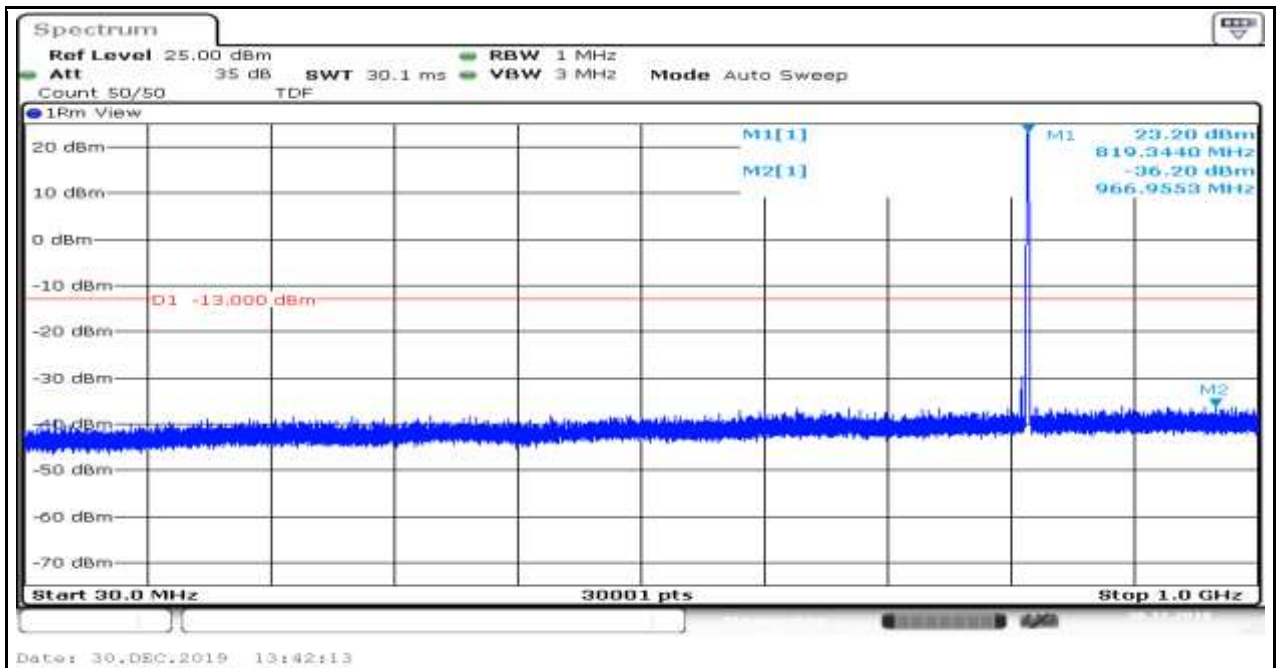
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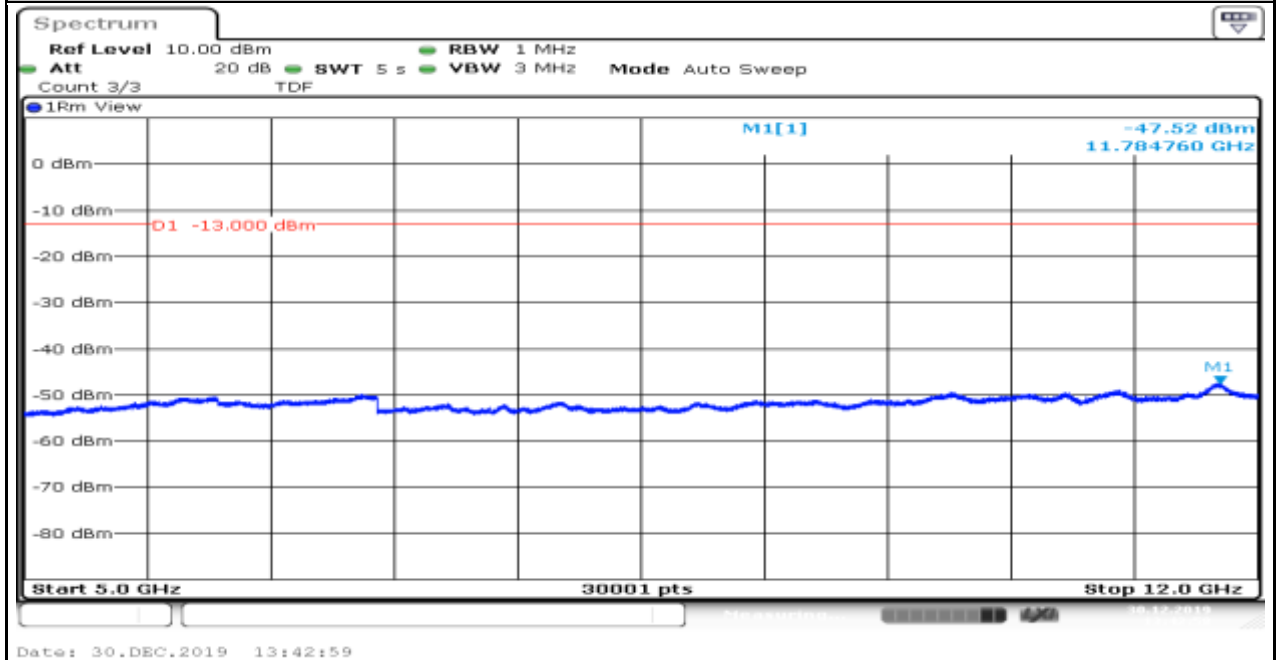
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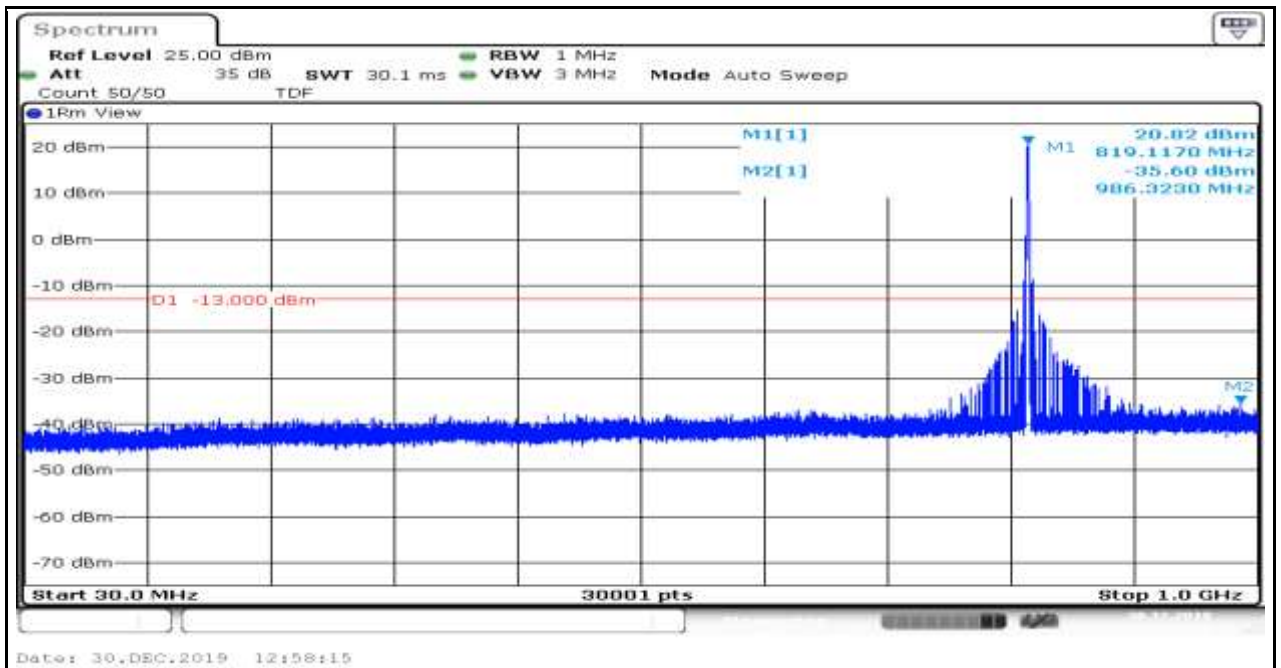
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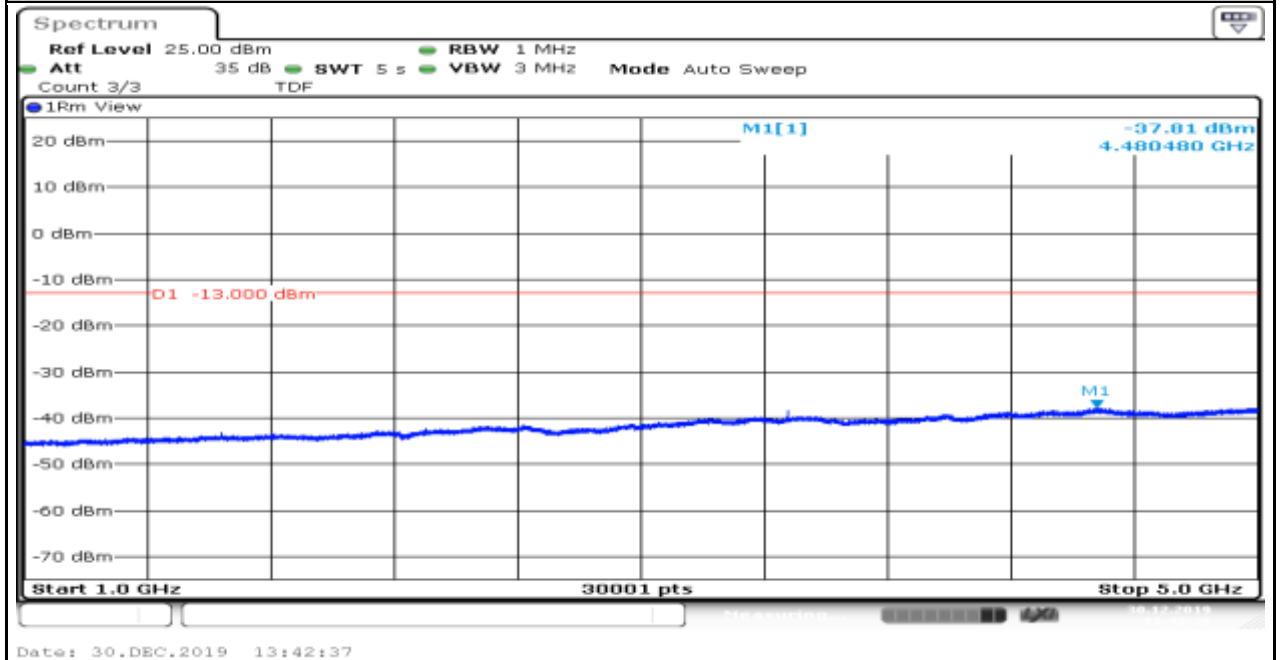
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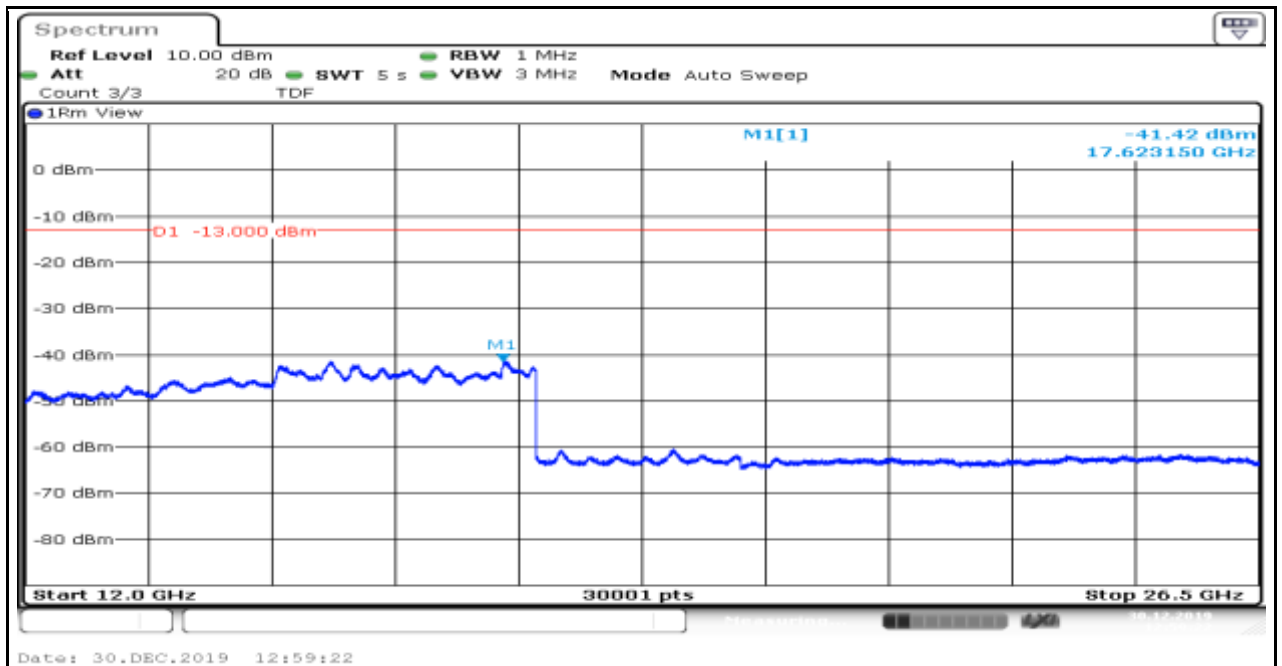
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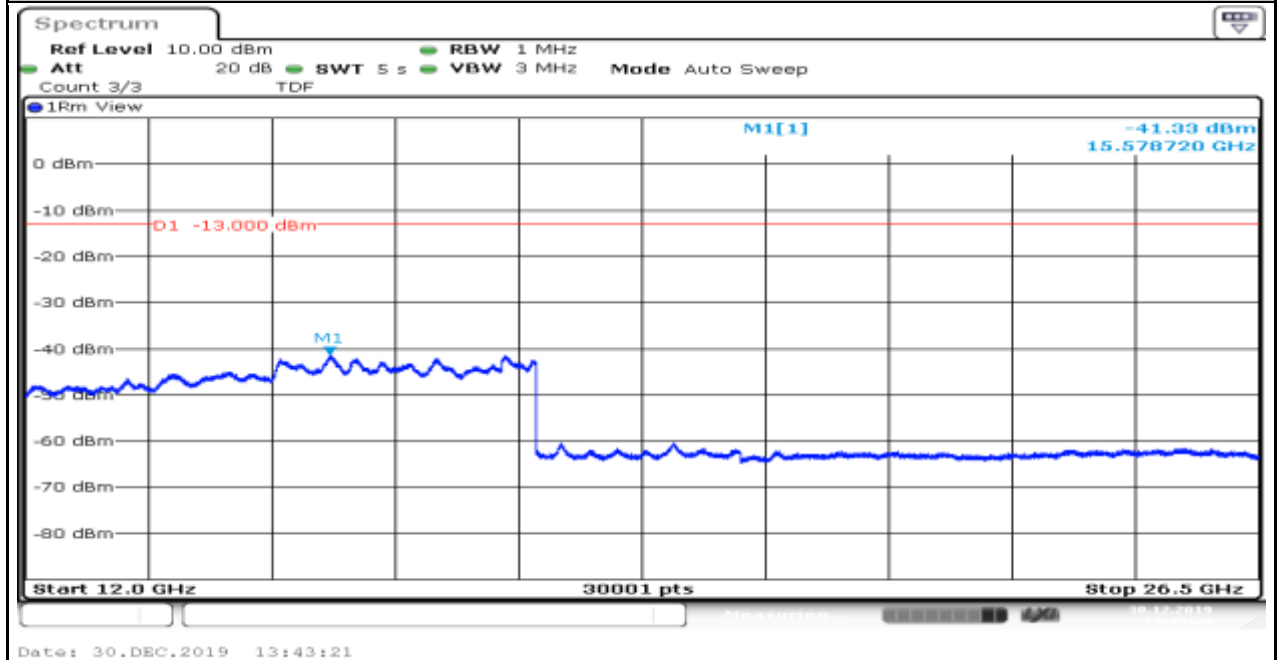
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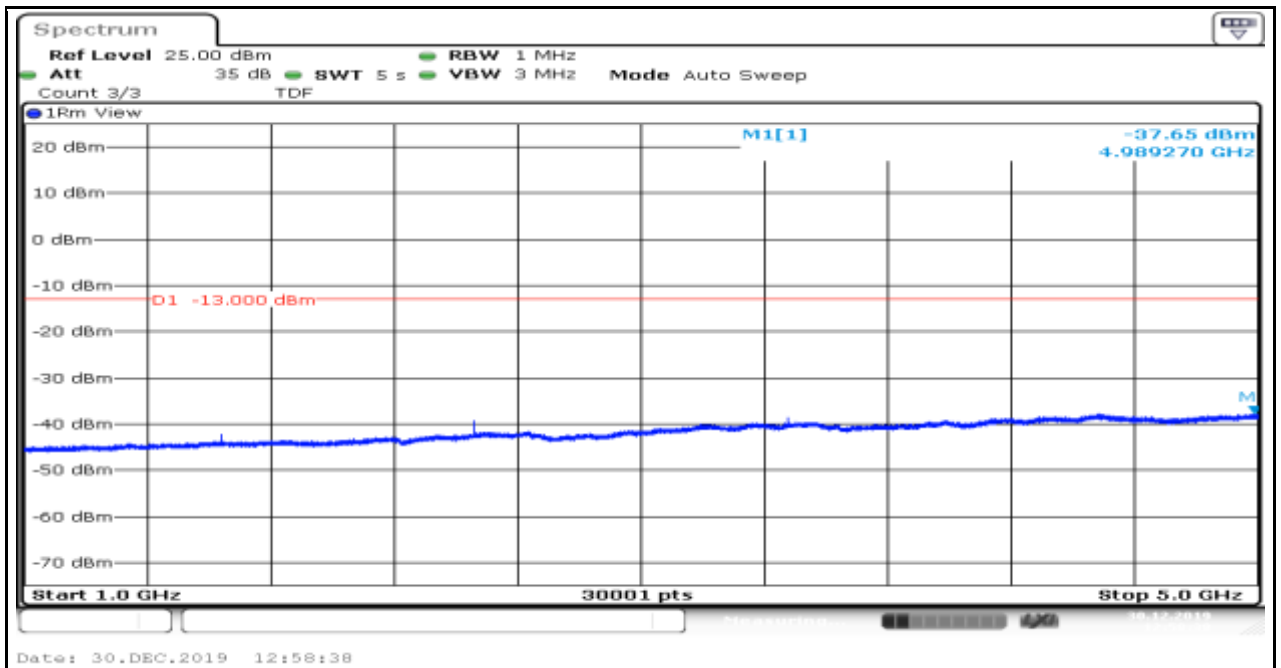
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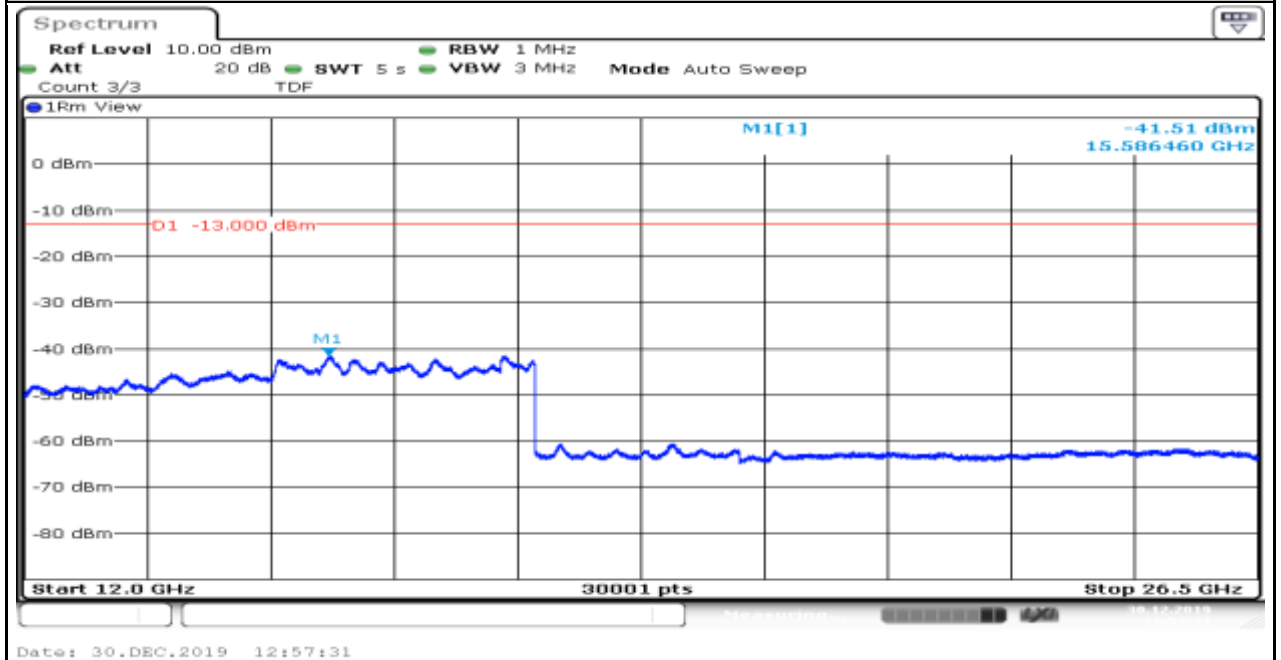
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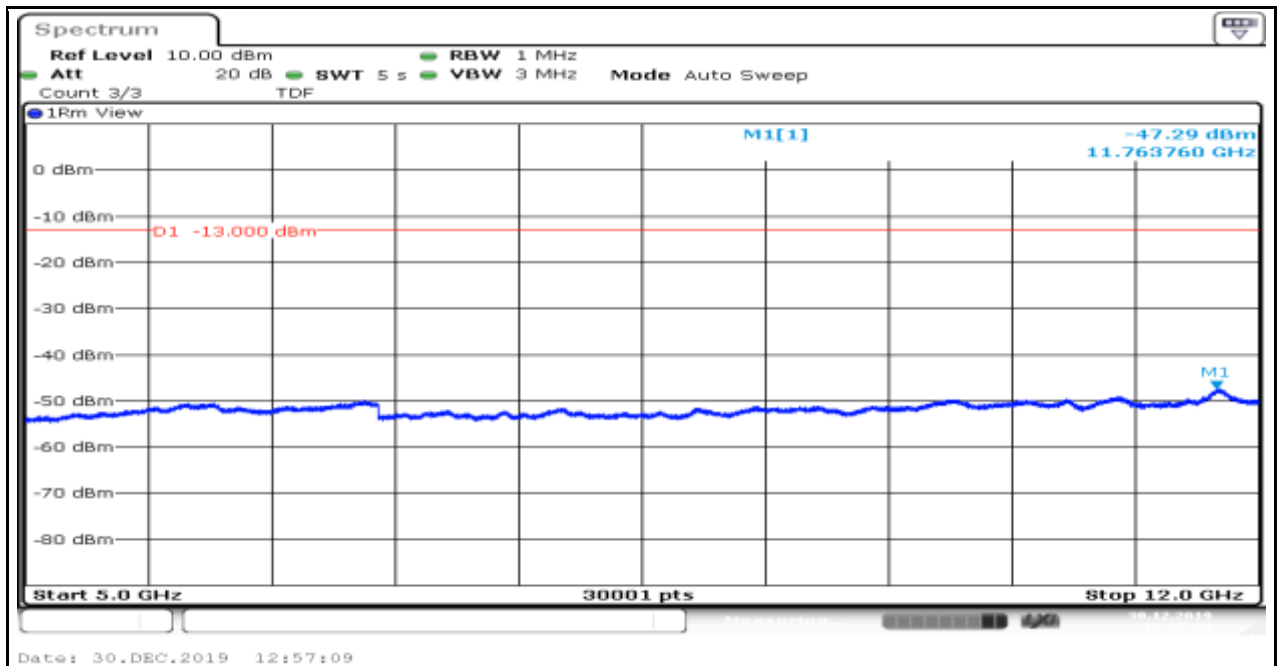
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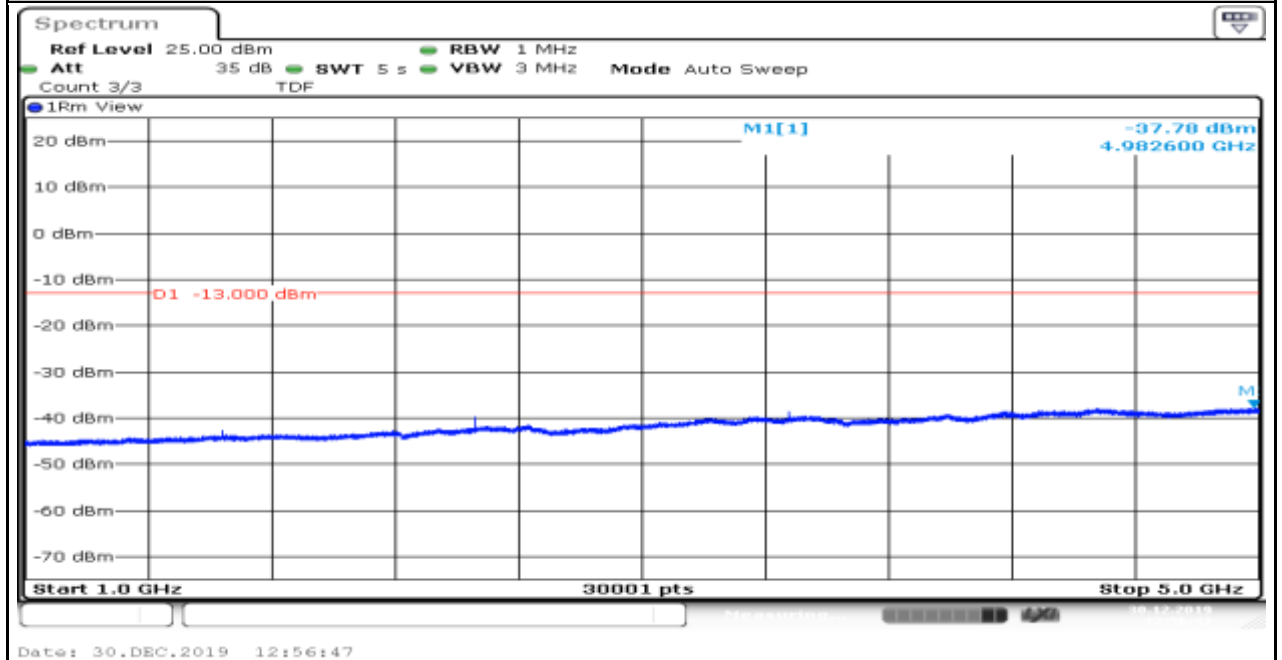
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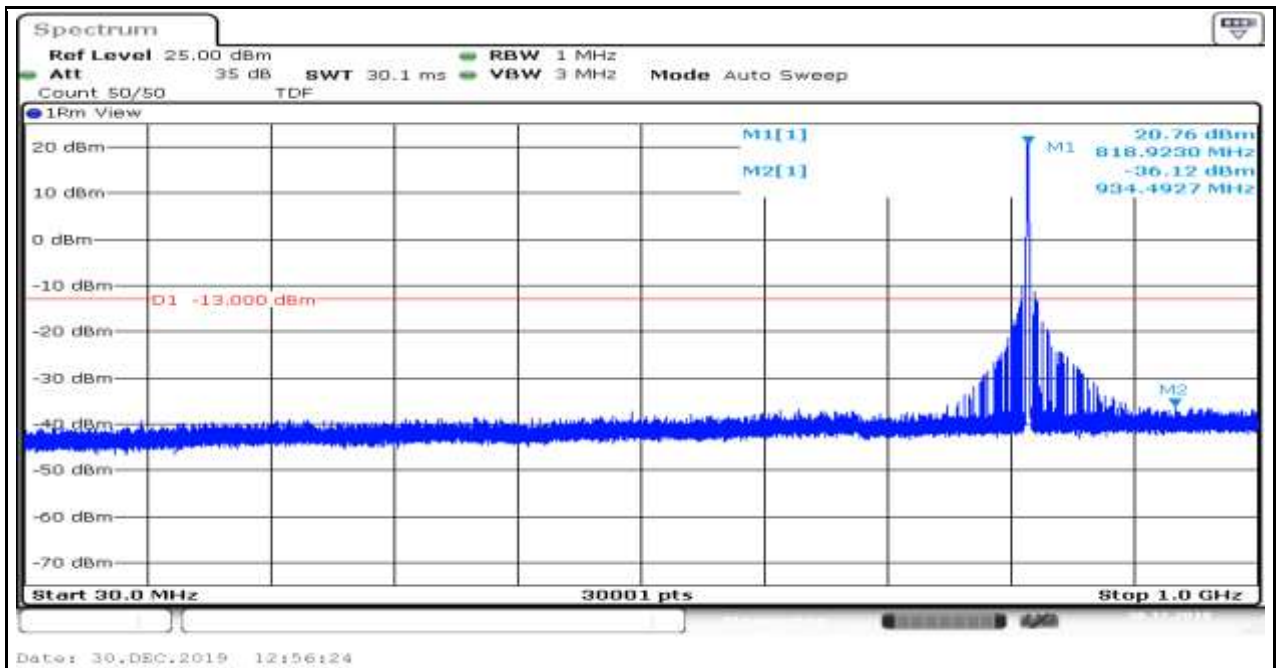
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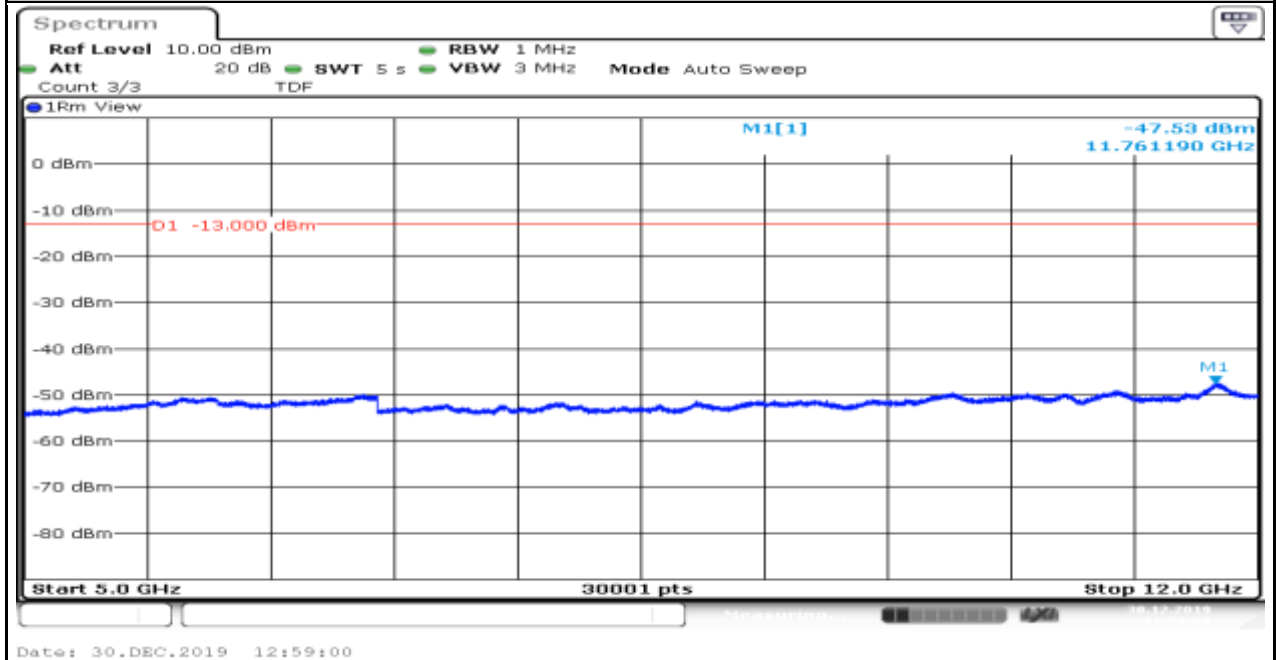
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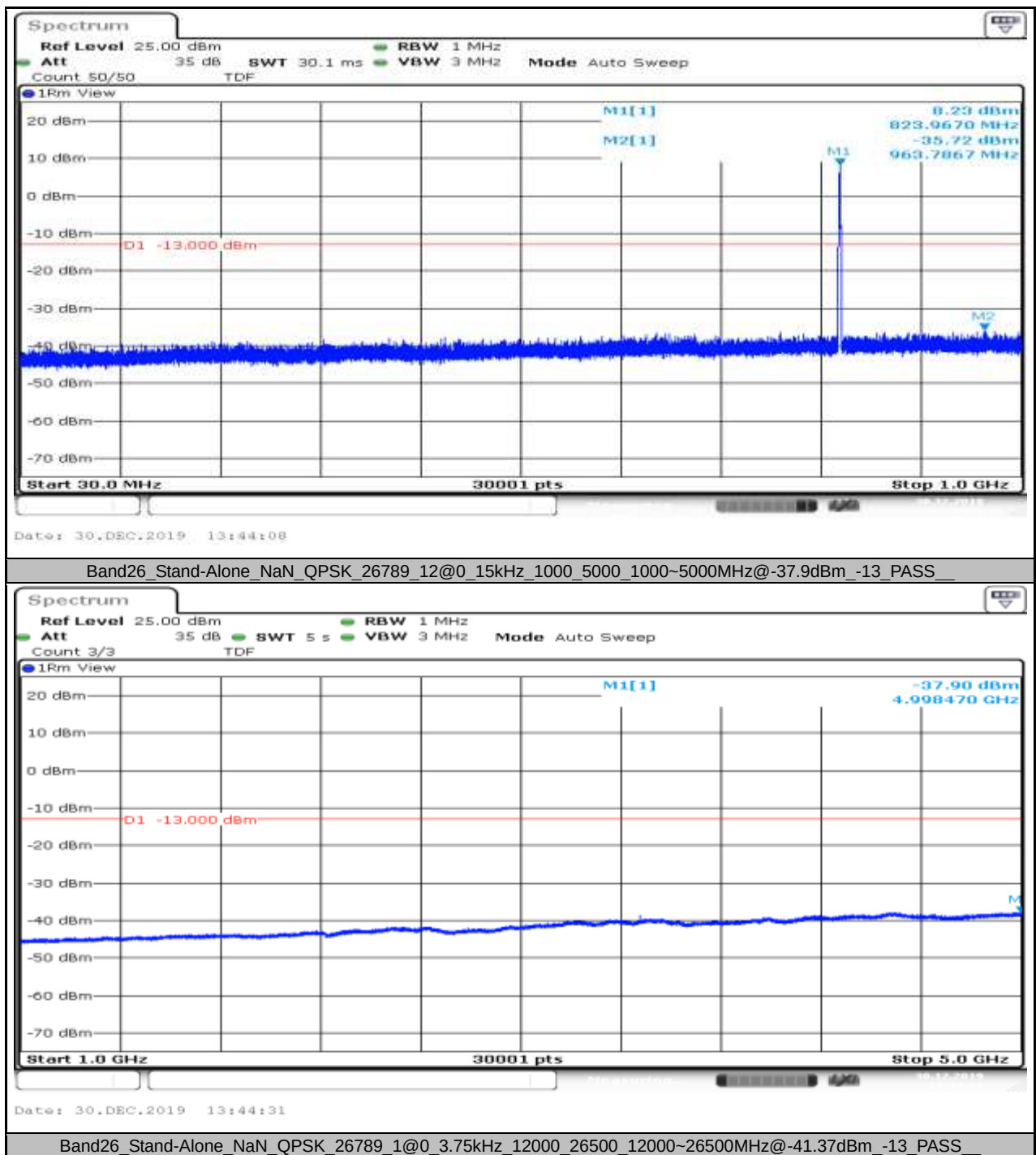
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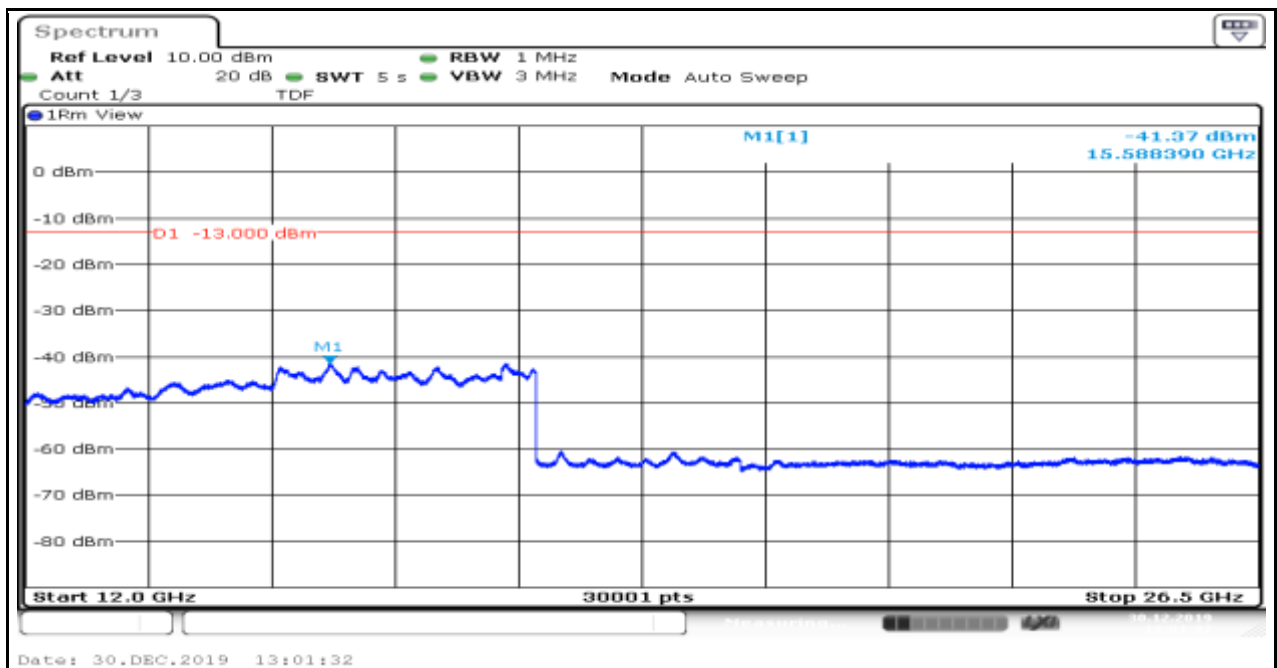


Band26_Stand-Alone_NaN_QPSK_26740_1@47_3.75kHz_5000_12000_5000-12000MHz@-47.53dBm_-13_PASS

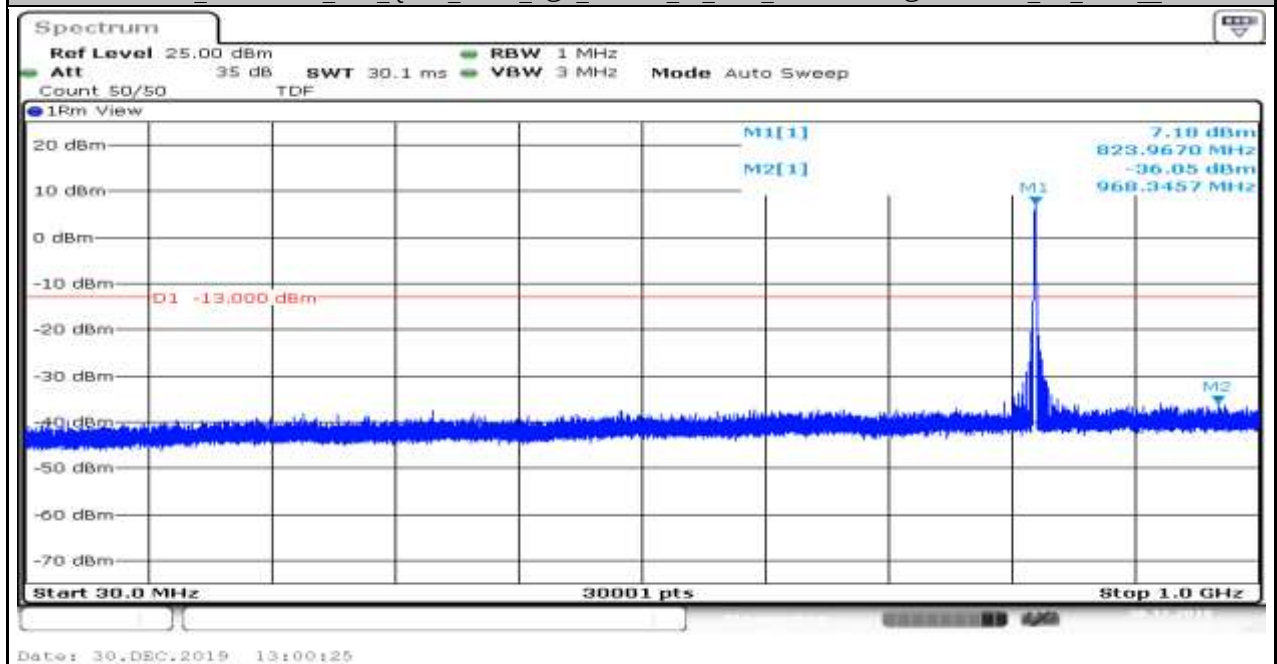


Band26_Stand-Alone_NaN_QPSK_26789_12@0_15kHz_30_1000_30-1000MHz@-35.72dBm_-13_PASS



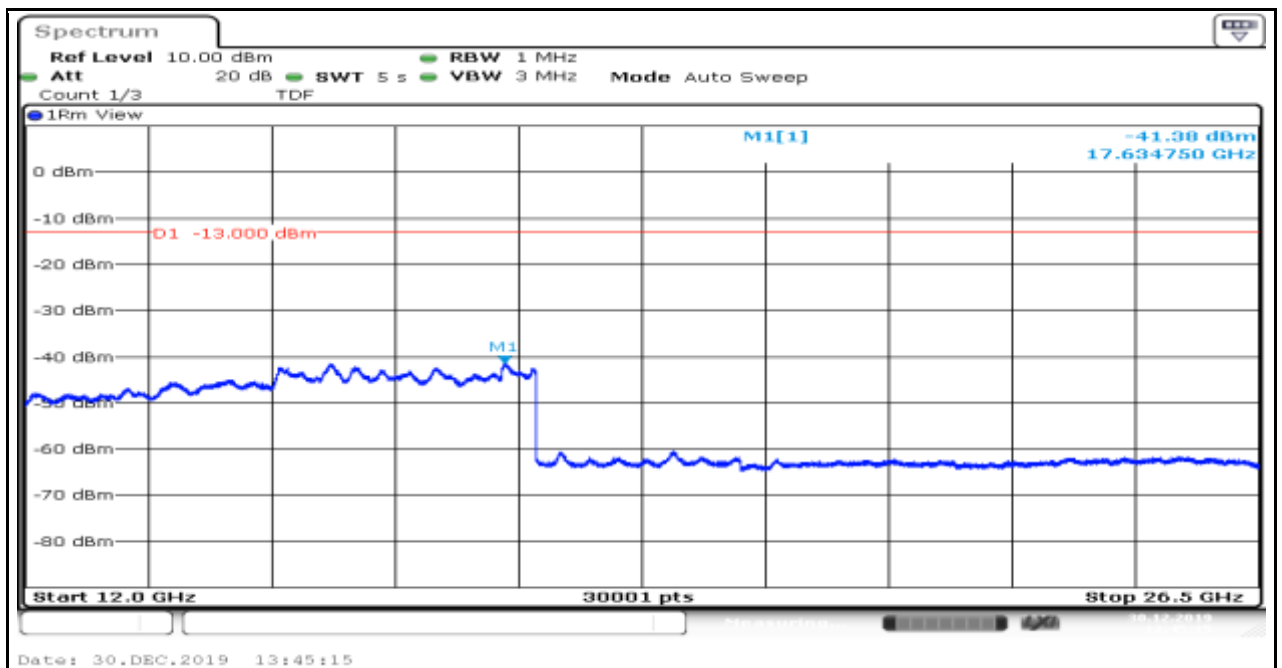


Band26_Stand-Alone_NaN_QPSK_26789_1@0_3.75kHz_30_1000_30~1000MHz@-36.05dBm_-13_PASS

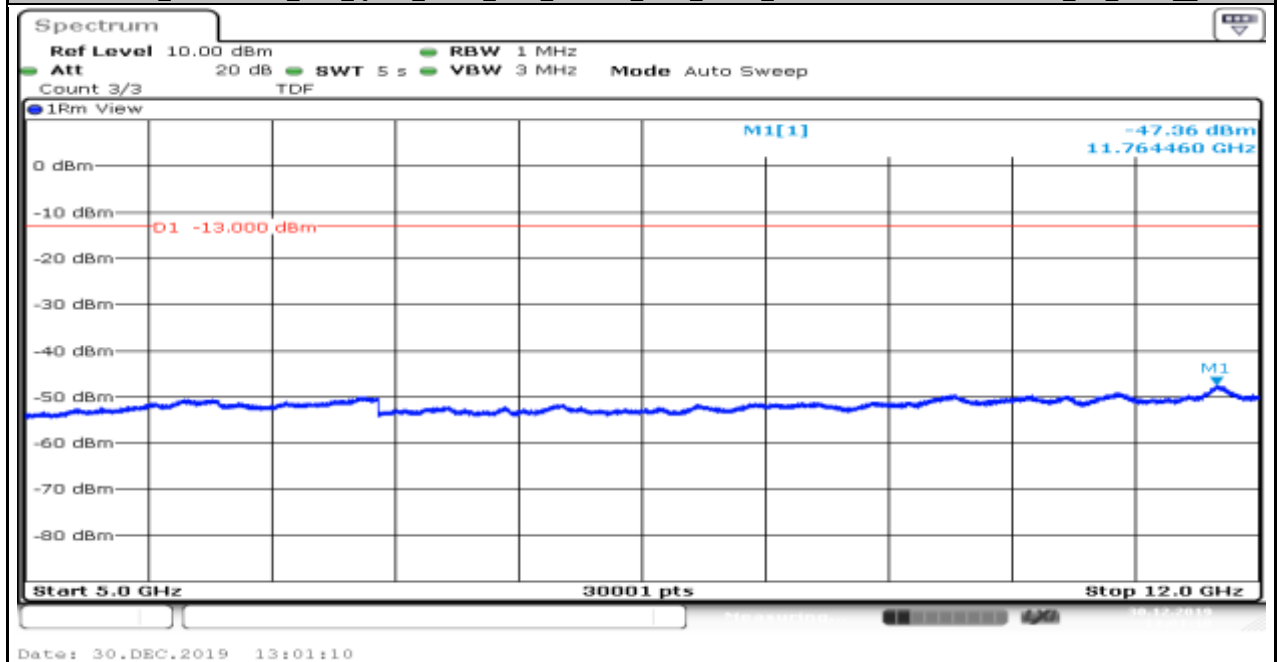


Band26_Stand-Alone_NaN_QPSK_26789_12@0_15kHz_12000_26500_12000~26500MHz@-41.38dBm_-13_PASS

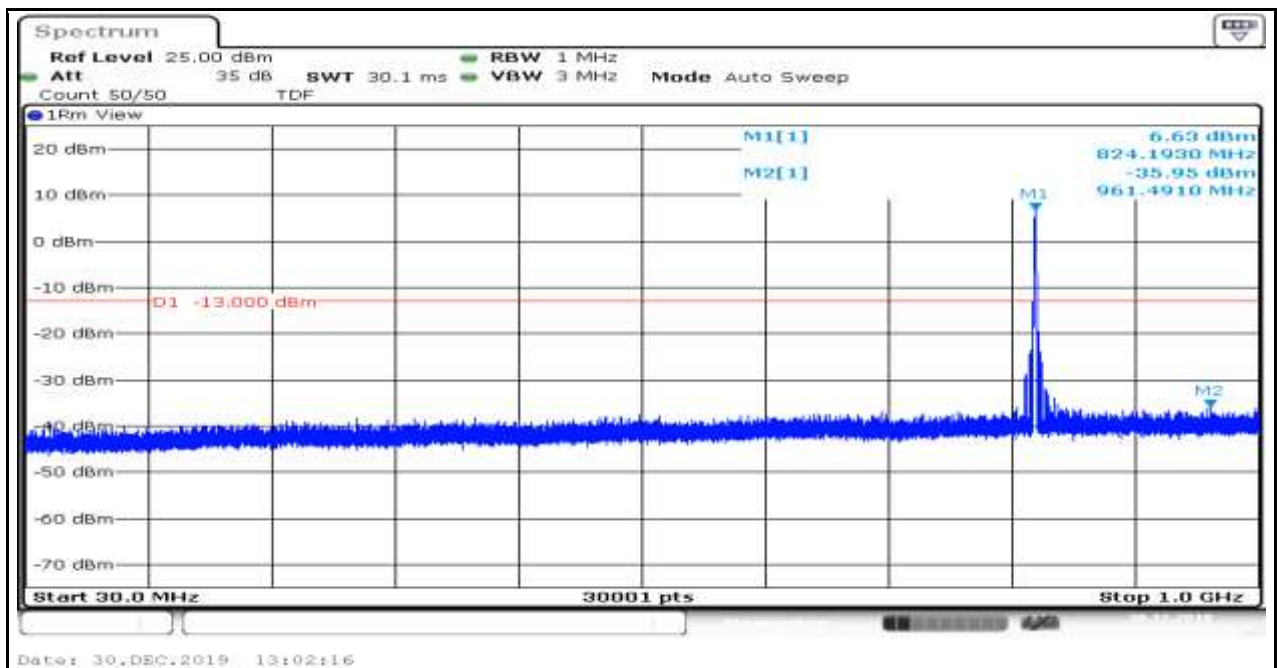
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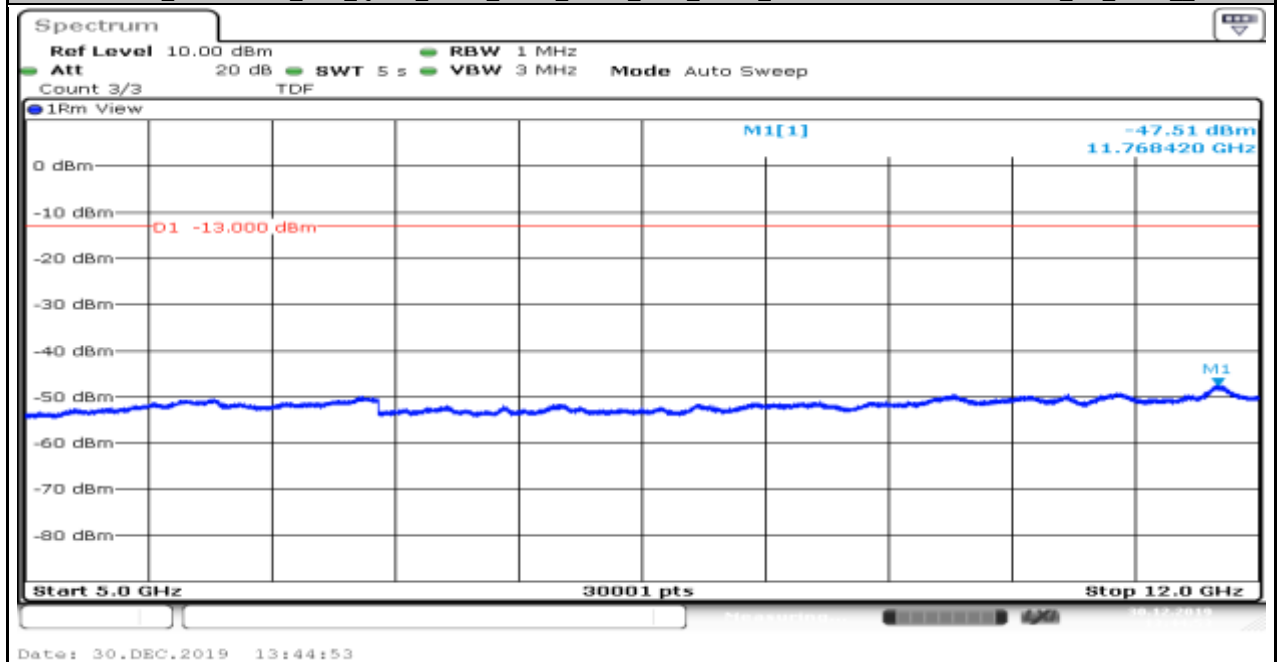
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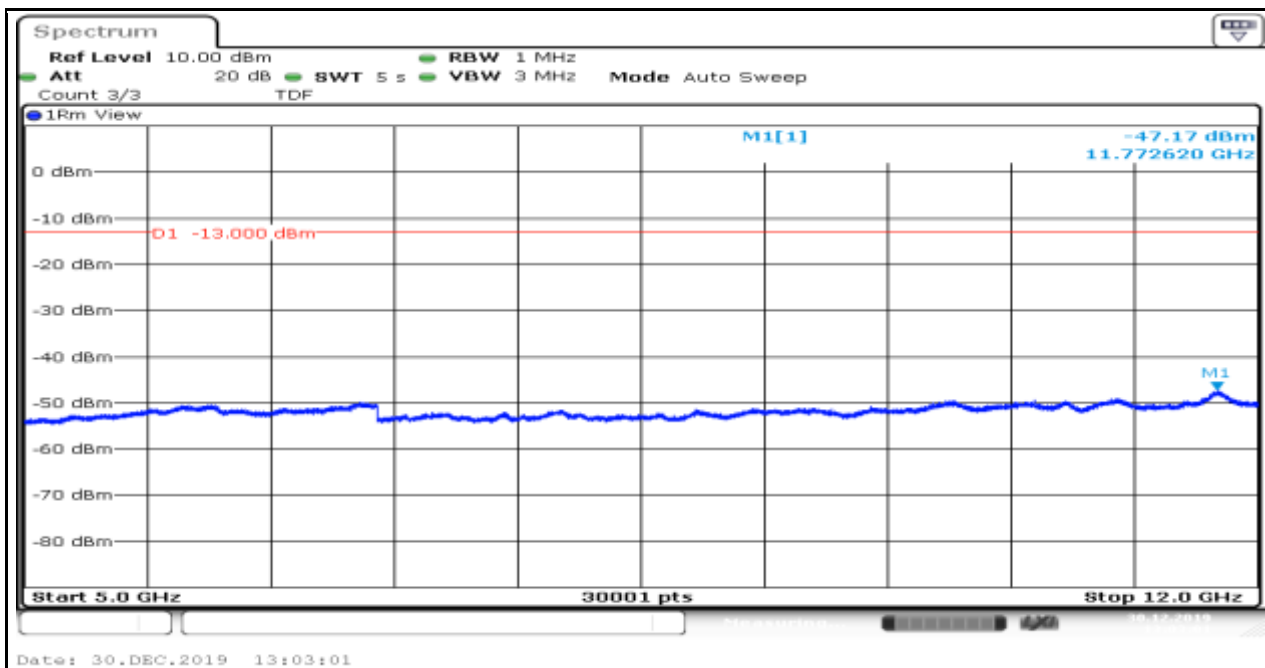
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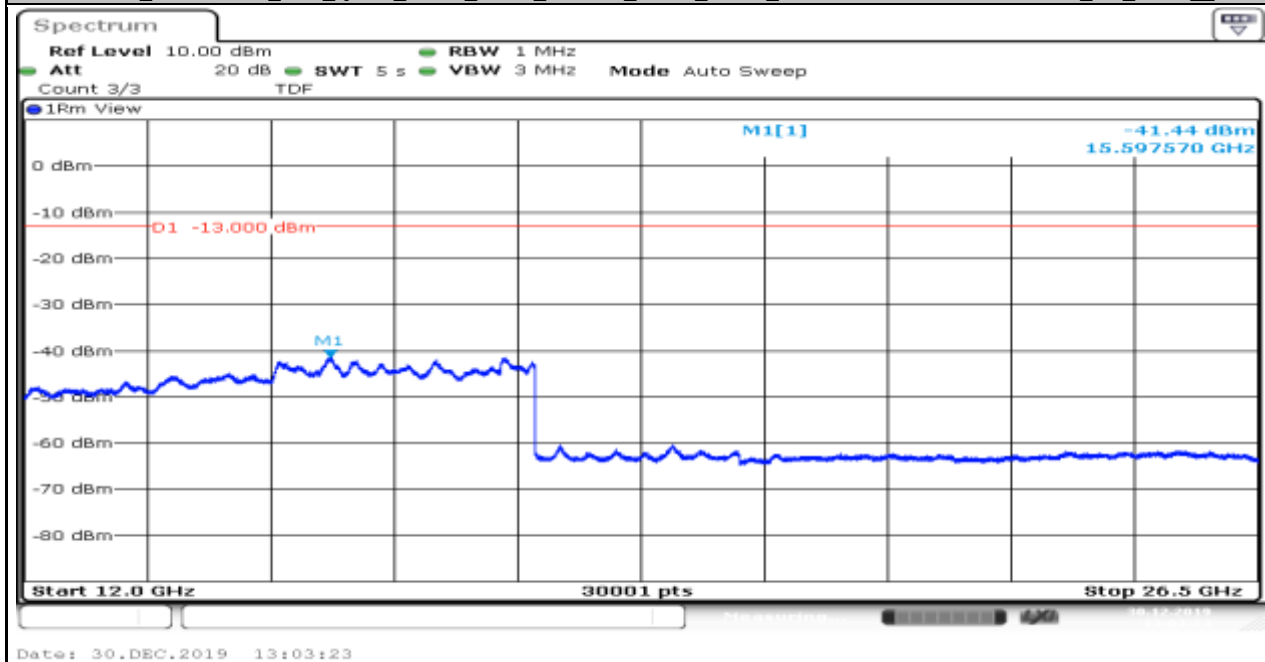
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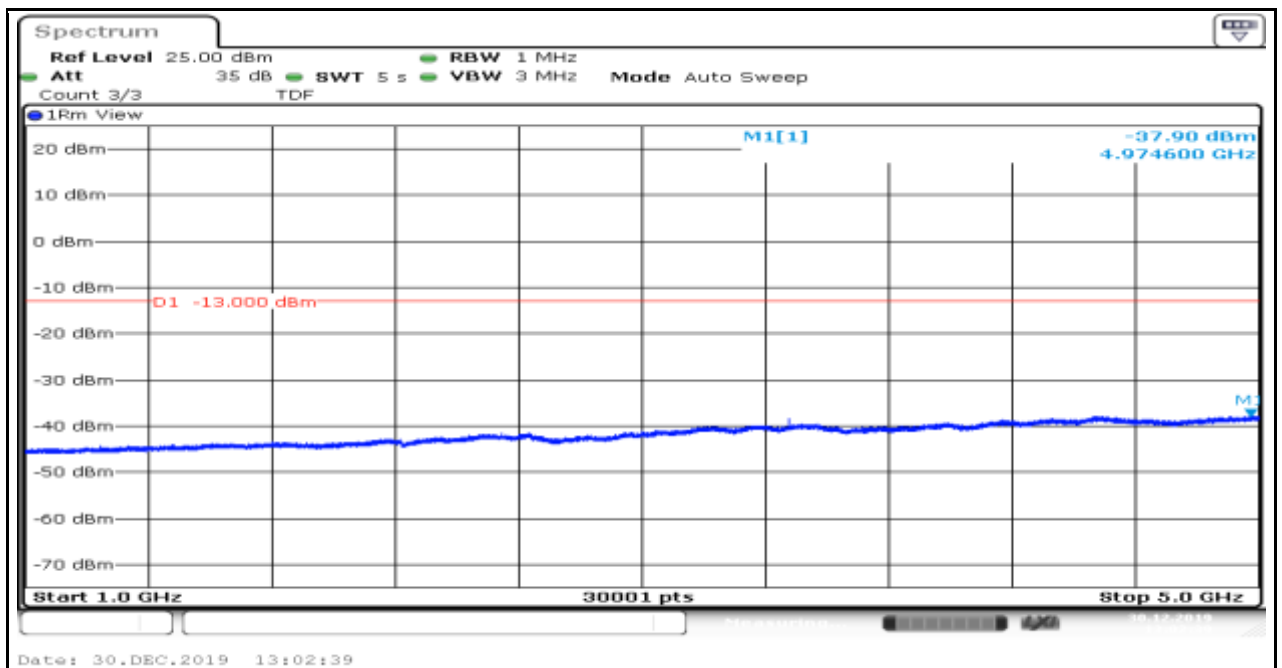
Band26_Stand-Alone_NaN_QPSK_26789_1@47_3.75kHz_5000_12000_5000~12000MHz@-47.17dBm_-13_PASS_



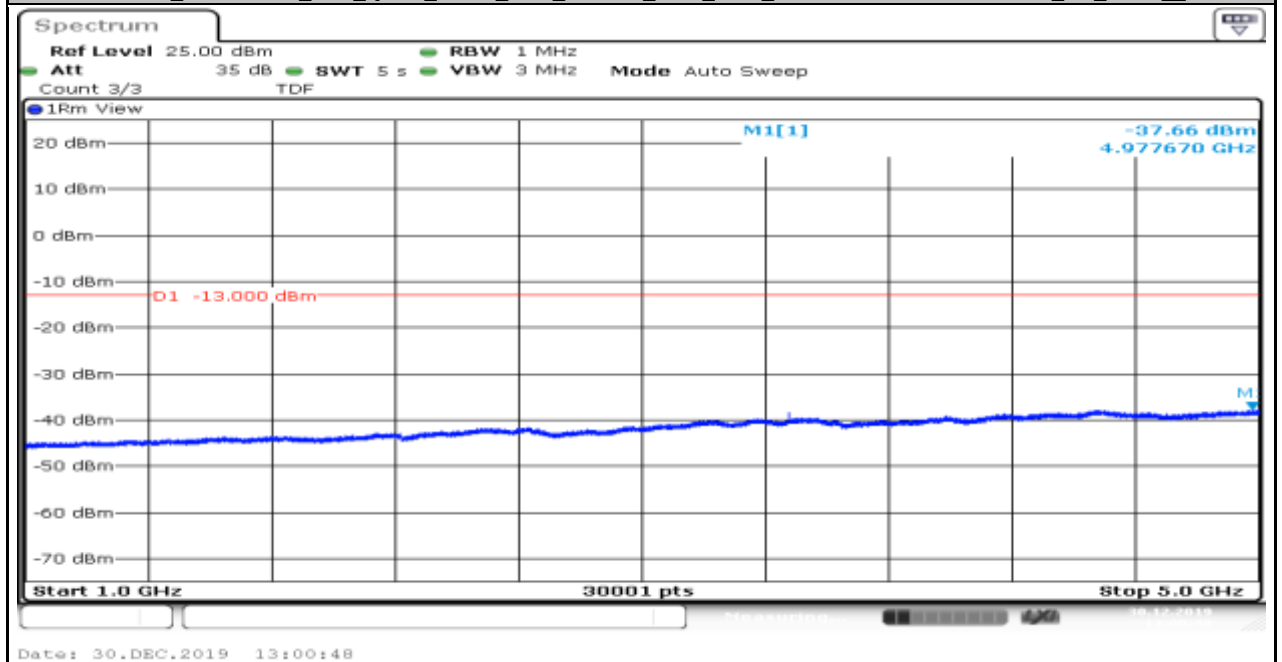
Band26_Stand-Alone_NaN_QPSK_26789_1@47_3.75kHz_12000_26500_12000~26500MHz@-41.44dBm_-13_PASS



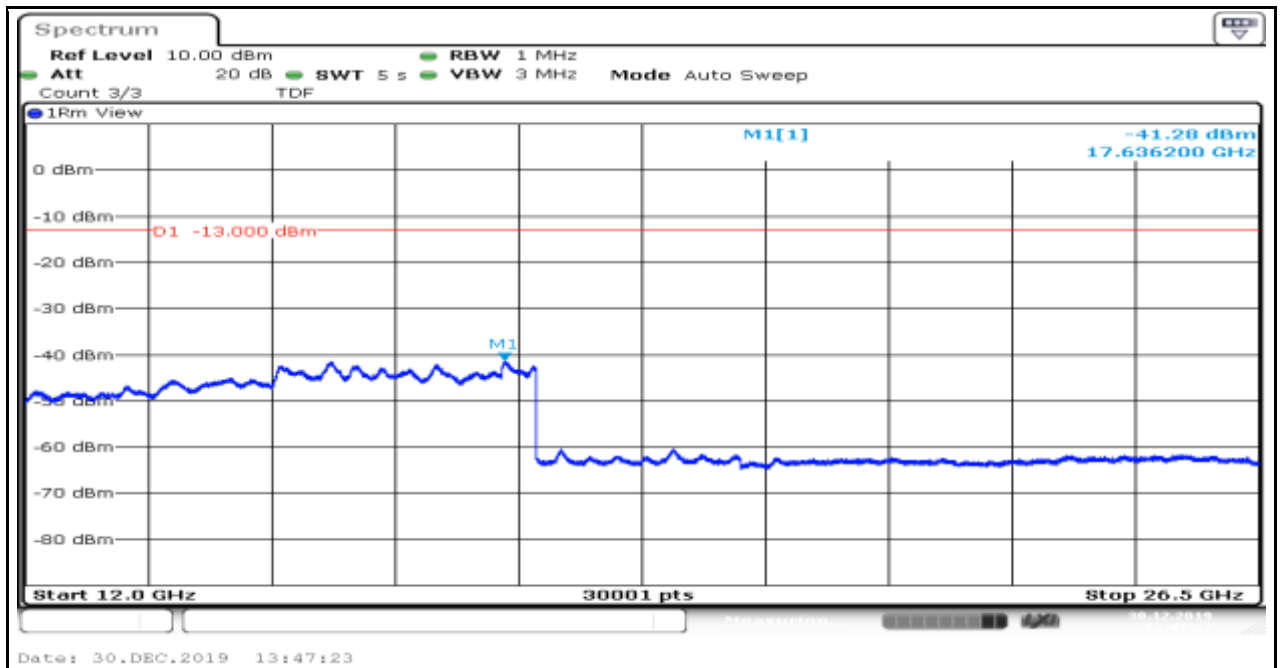
Band26_Stand-Alone_NaN_QPSK_26789_1@47_3.75kHz_1000_5000_1000~5000MHz@-37.9dBm_-13_PASS



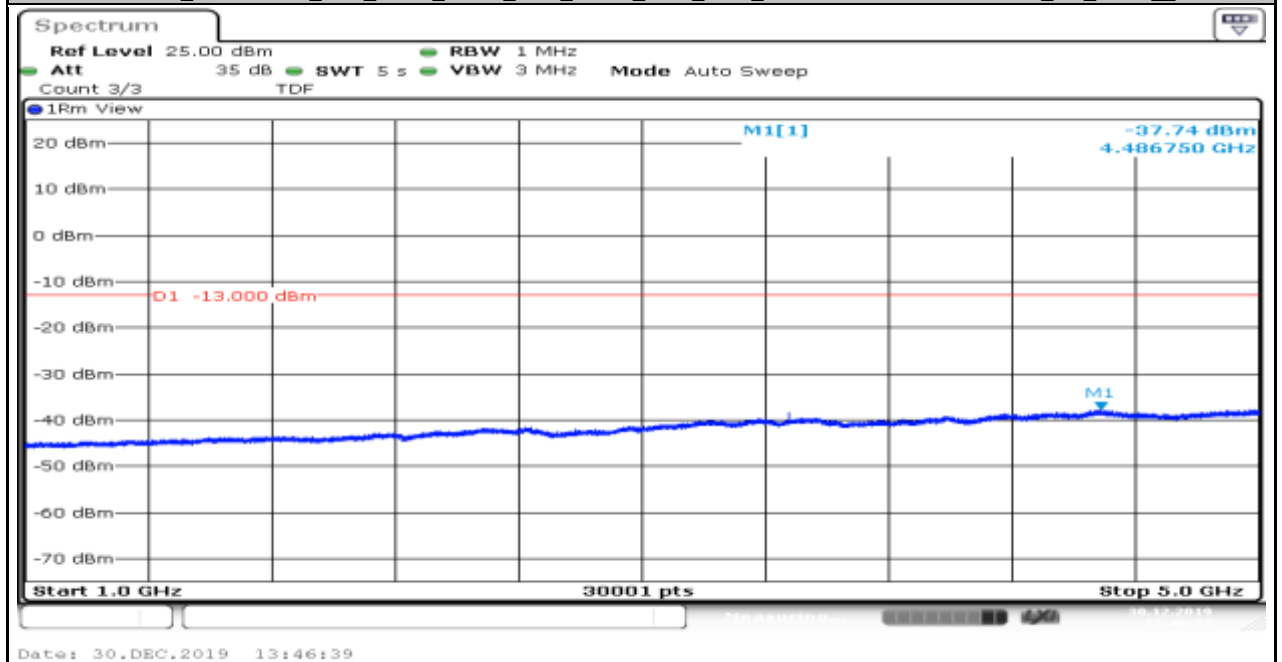
Band26_Stand-Alone_NaN_QPSK_26789_1@0_3.75kHz_1000_5000_1000~5000MHz@-37.66dBm_-13_PASS_



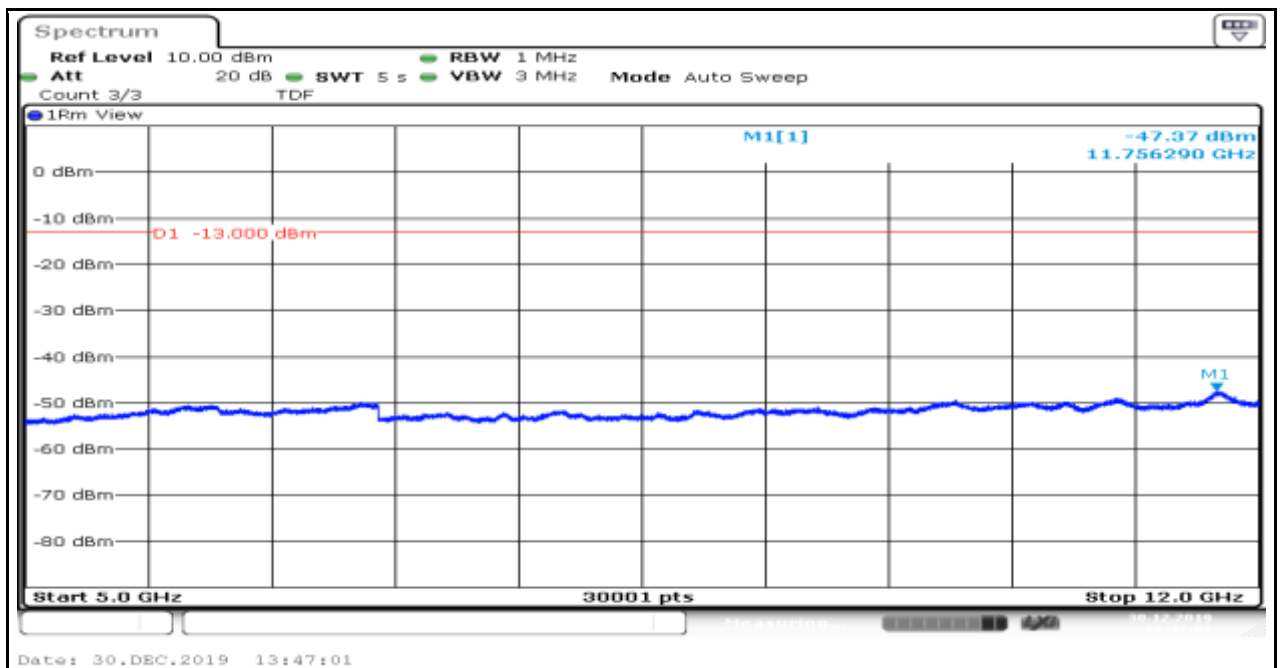
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_12000_26500_12000~26500MHz@-41.28dBm_-13_PASS_



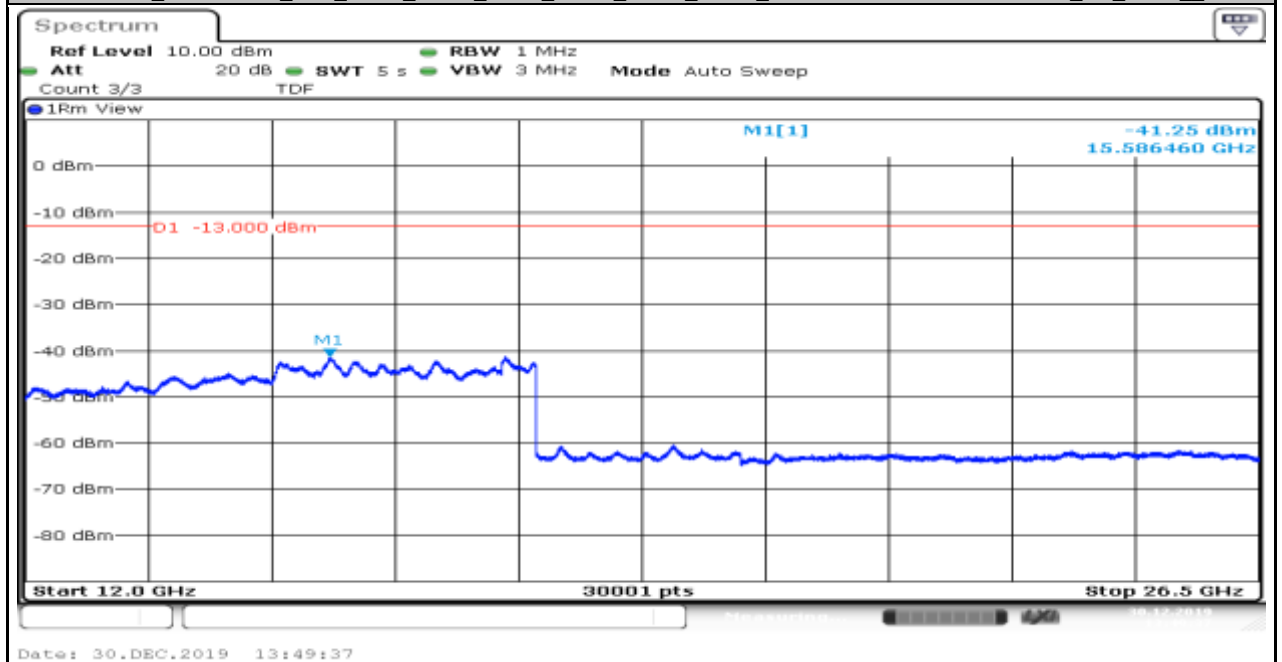
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_1000_5000_1000-5000MHz@-37.74dBm_-13_PASS_



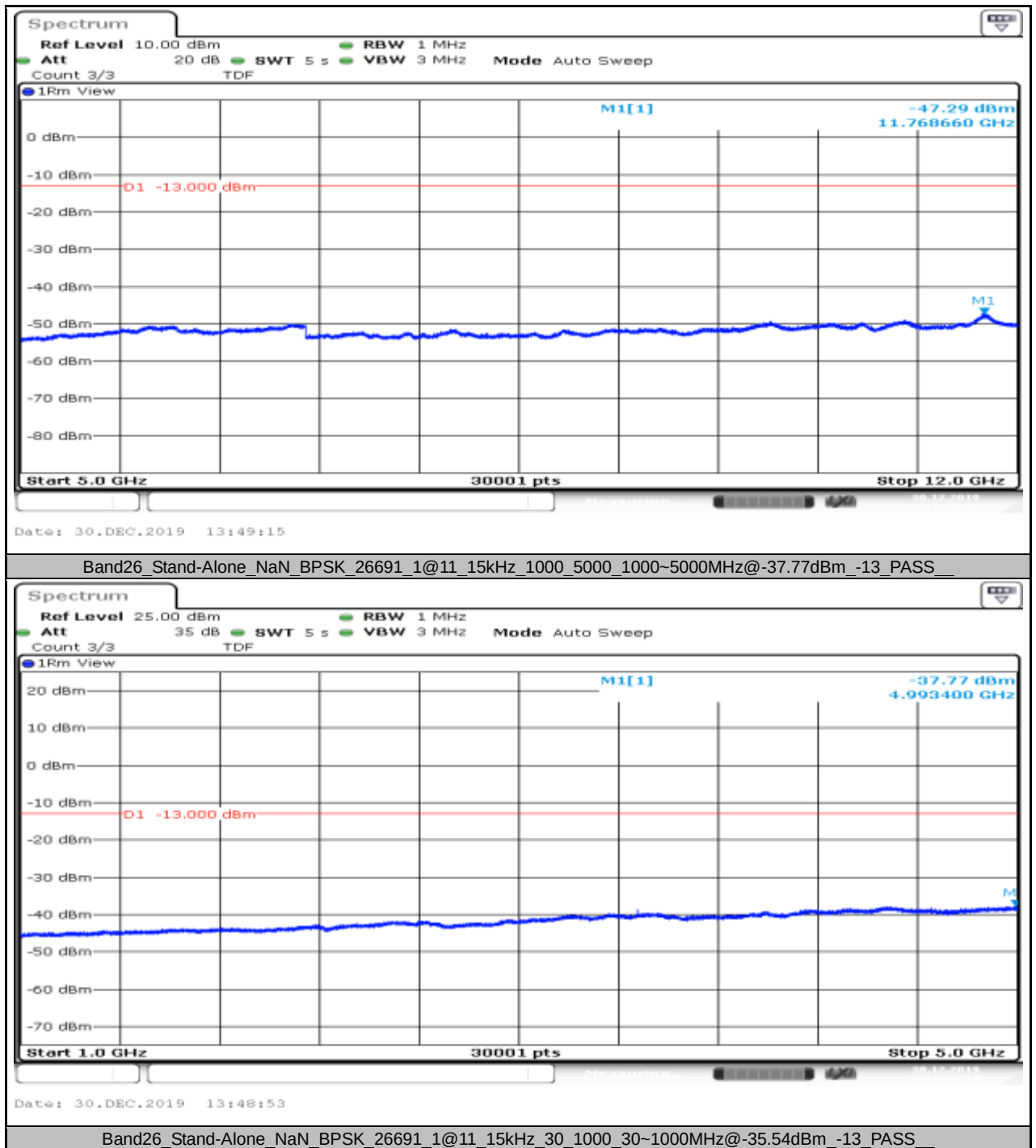
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_5000_12000_5000-12000MHz@-47.37dBm_-13_PASS_

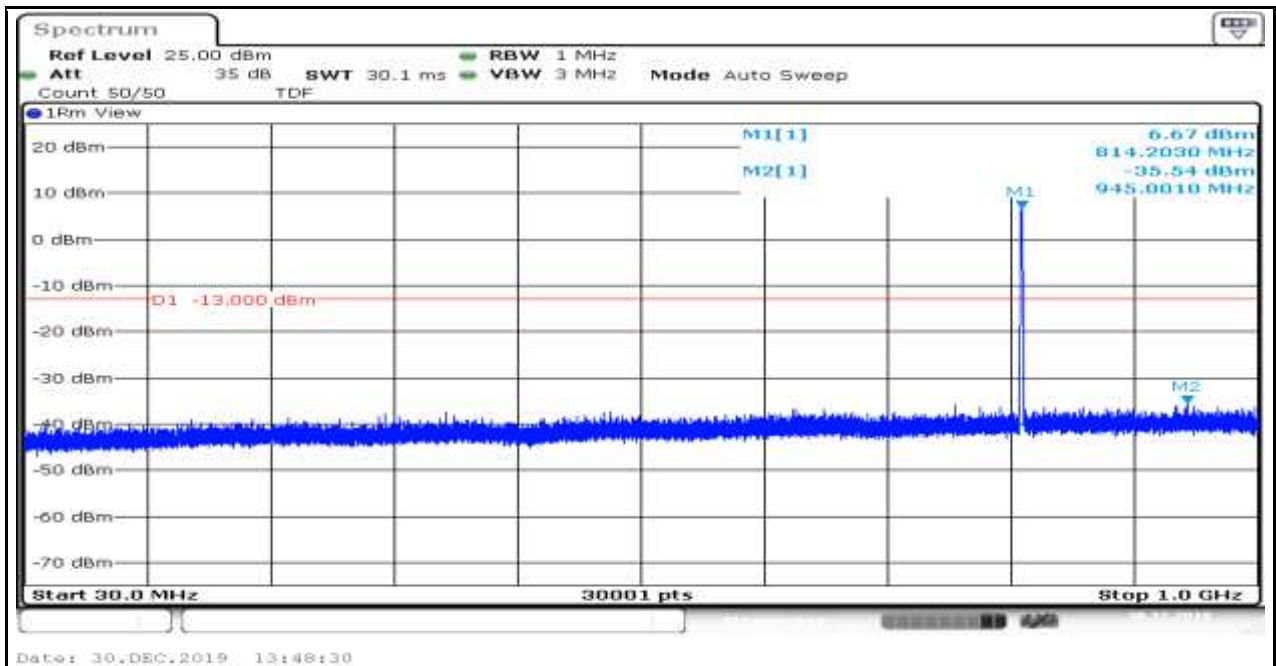


Band26_Stand-Alone_NaN_BPSK_26691_1@11_15kHz_12000_26500_12000~26500MHz@-41.25dBm_-13_PASS

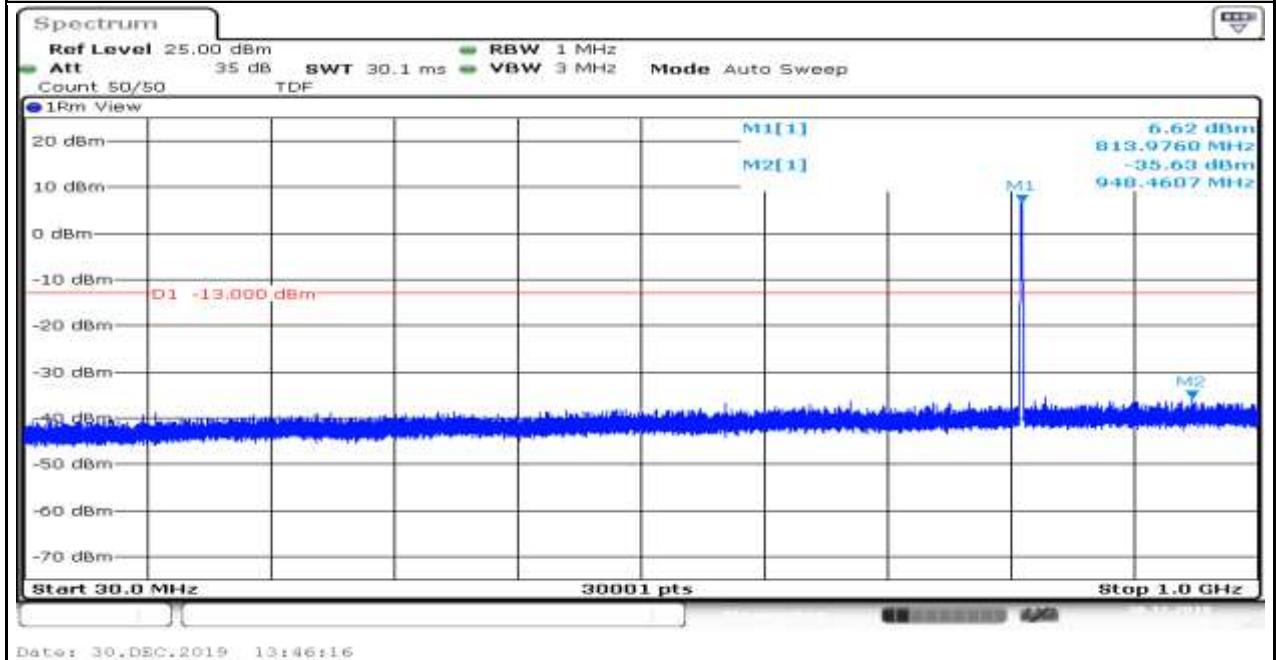


Band26_Stand-Alone_NaN_BPSK_26691_1@11_15kHz_5000_12000_5000~12000MHz@-47.29dBm_-13_PASS

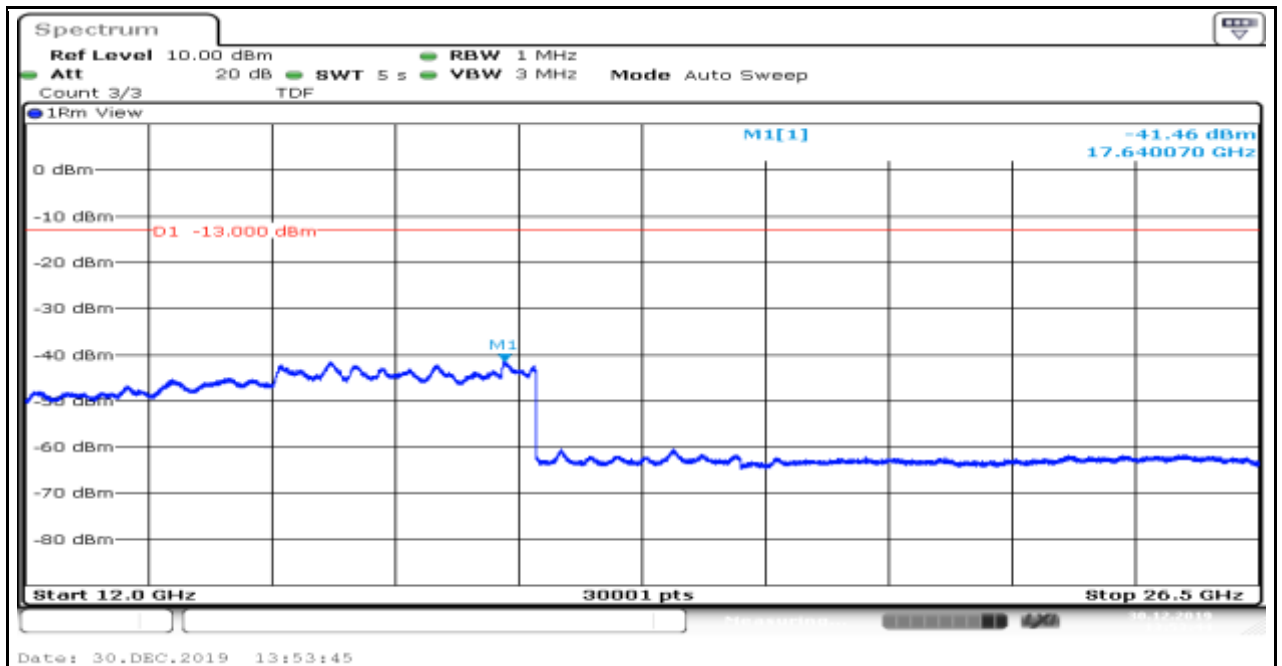




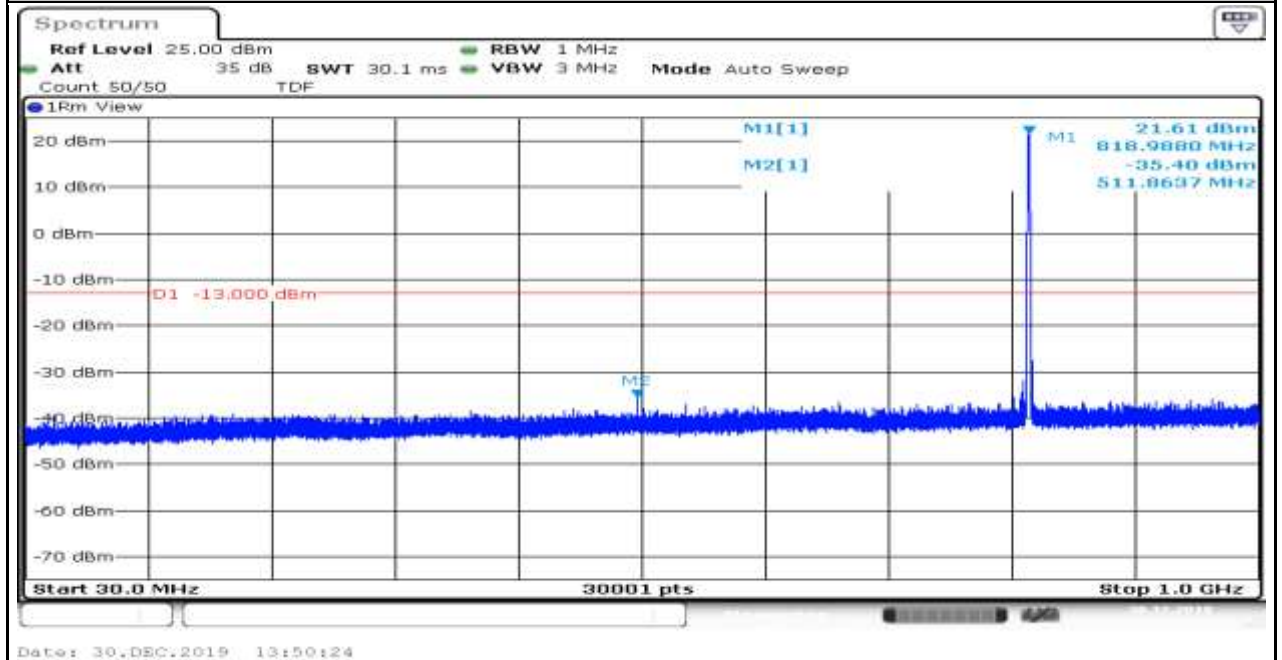
Band26_Stand-Alone_NaN_BPSK_26691_1@0_15kHz_30_1000_30~1000MHz@-35.63dBm_-13_PASS



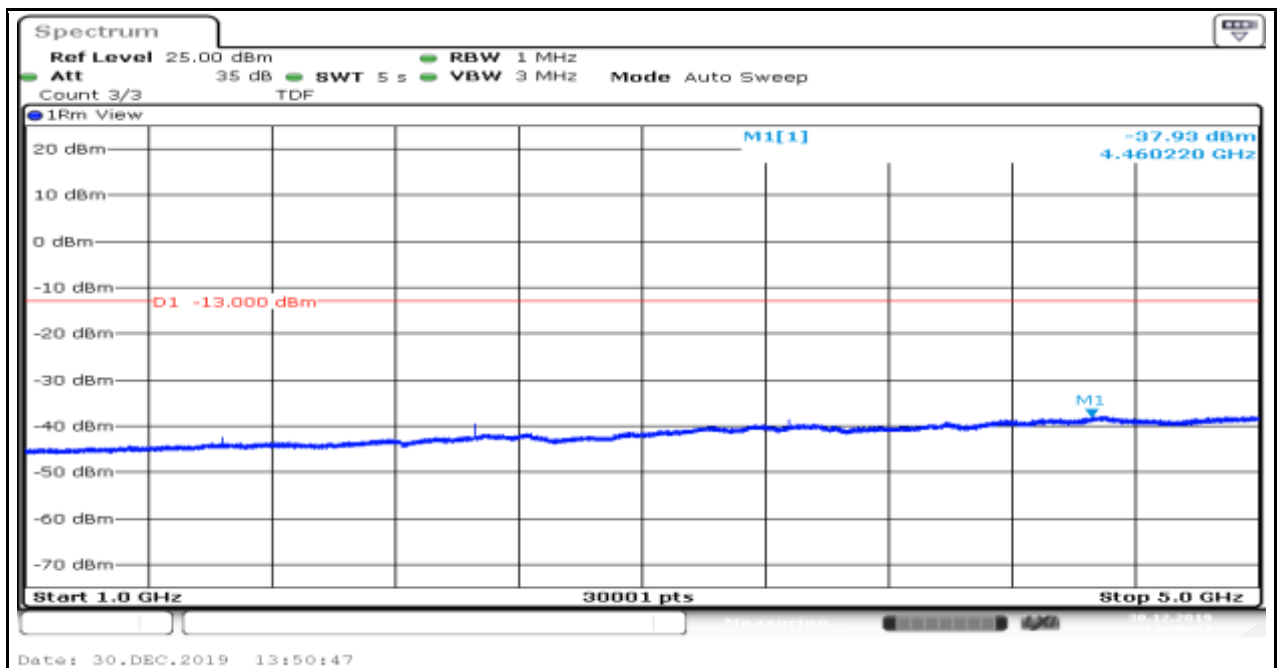
Band26_Stand-Alone_NaN_BPSK_26740_1@11_15kHz_12000_26500_12000~26500MHz@-41.46dBm_-13_PASS



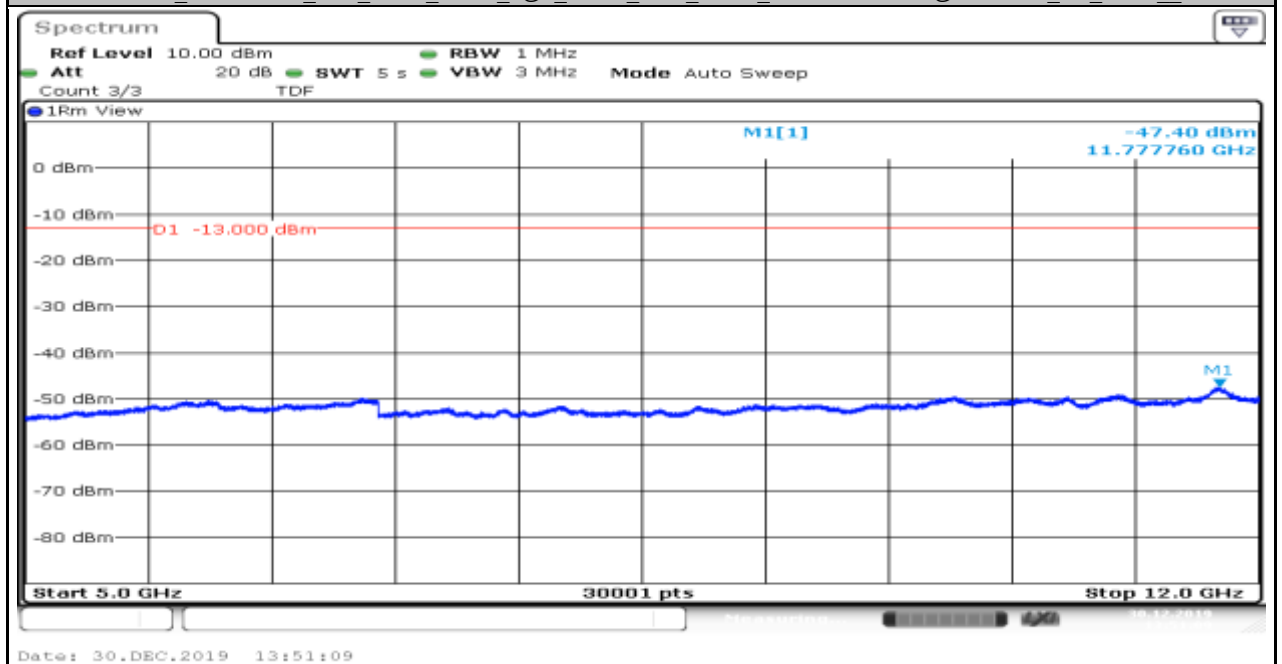
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_30_1000_30~1000MHz@-35.4dBm_-13_PASS_



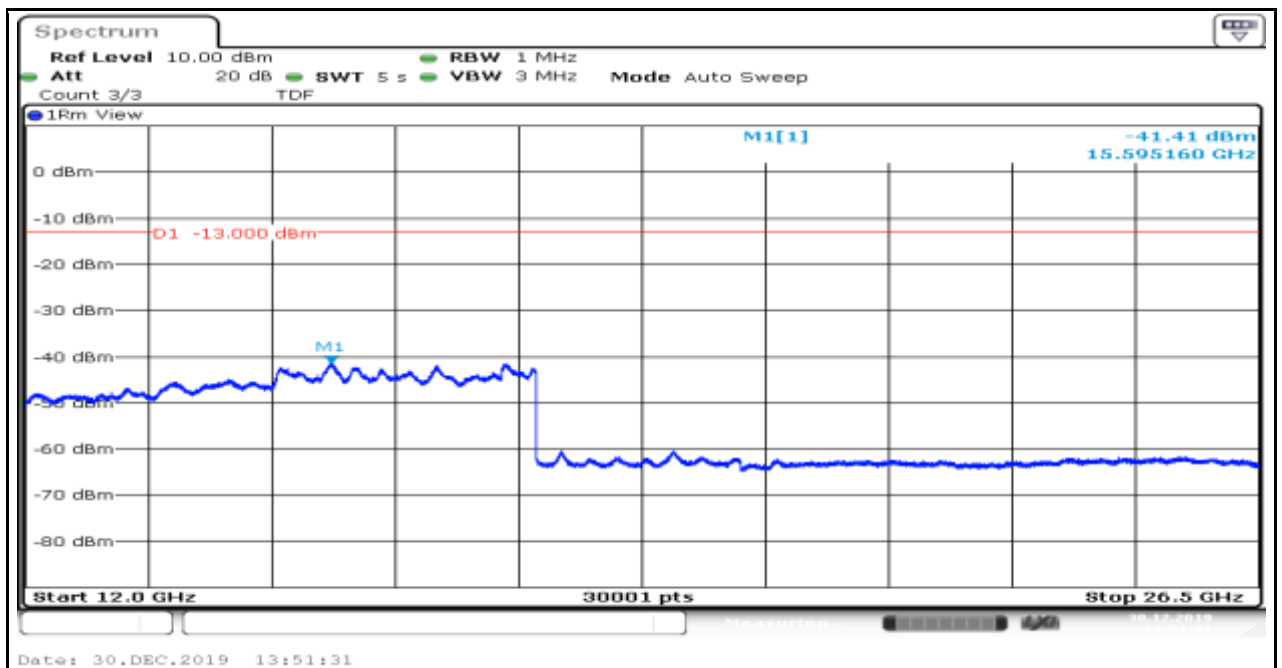
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_1000_5000_1000~5000MHz@-37.93dBm_-13_PASS_



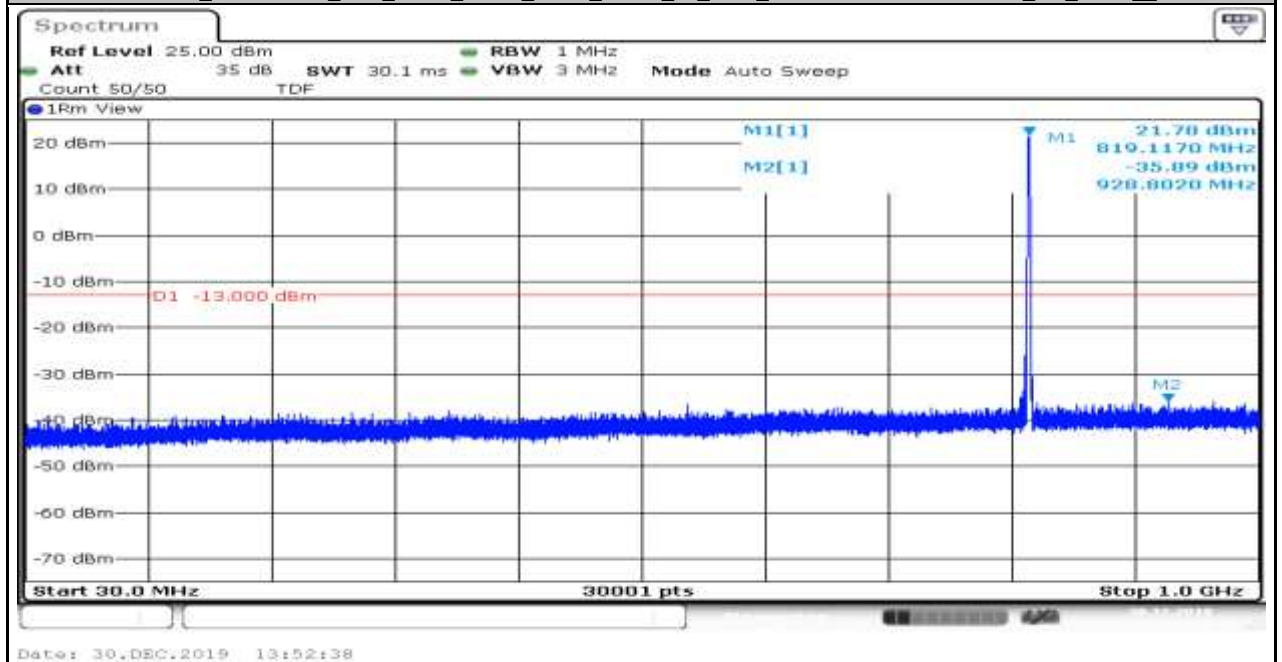
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_5000_12000_5000~12000MHz@-47.4dBm_-13_PASS_



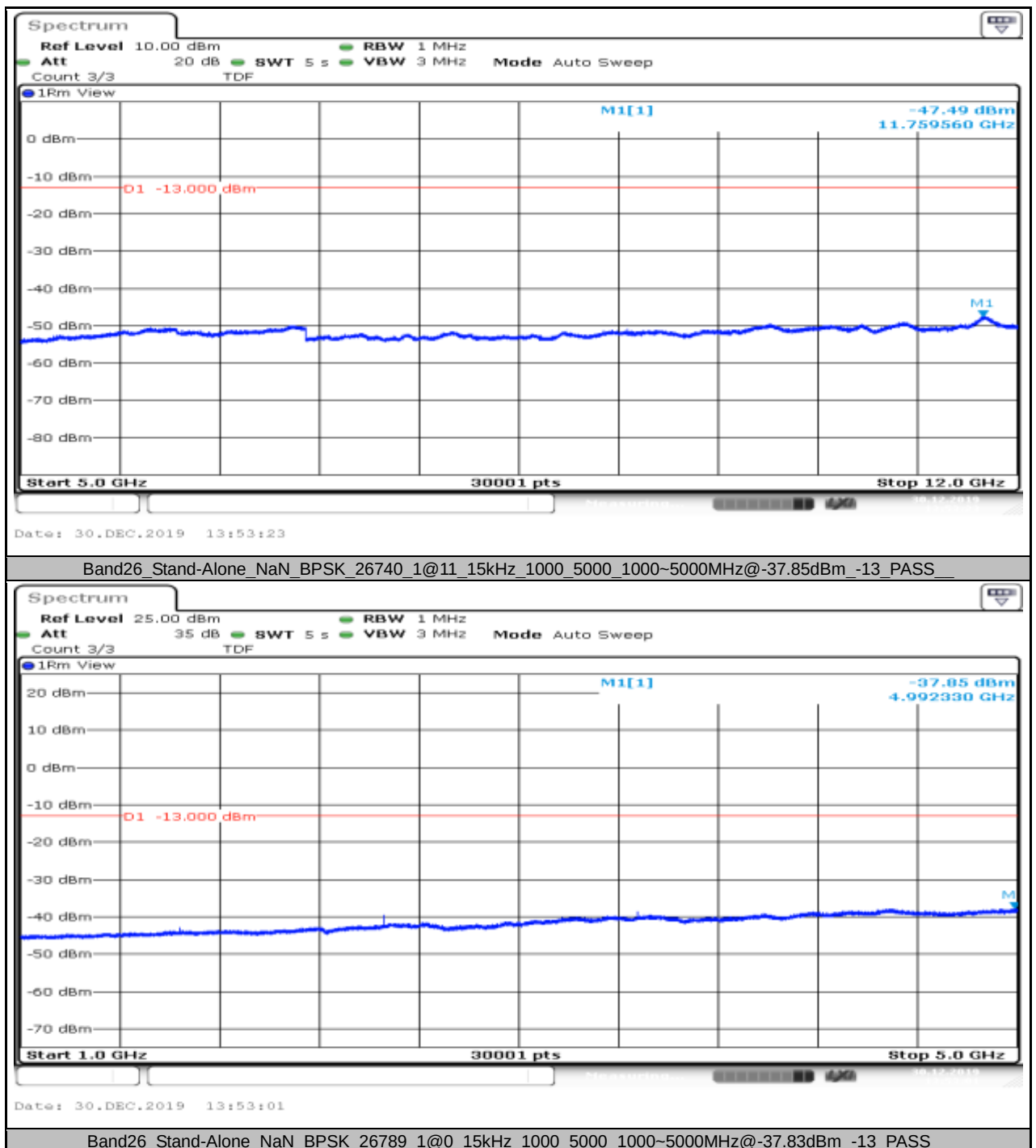
Band26_Stand-Alone_NaN_BPSK_26740_1@0_15kHz_12000_26500_12000~26500MHz@-41.41dBm_-13_PASS_

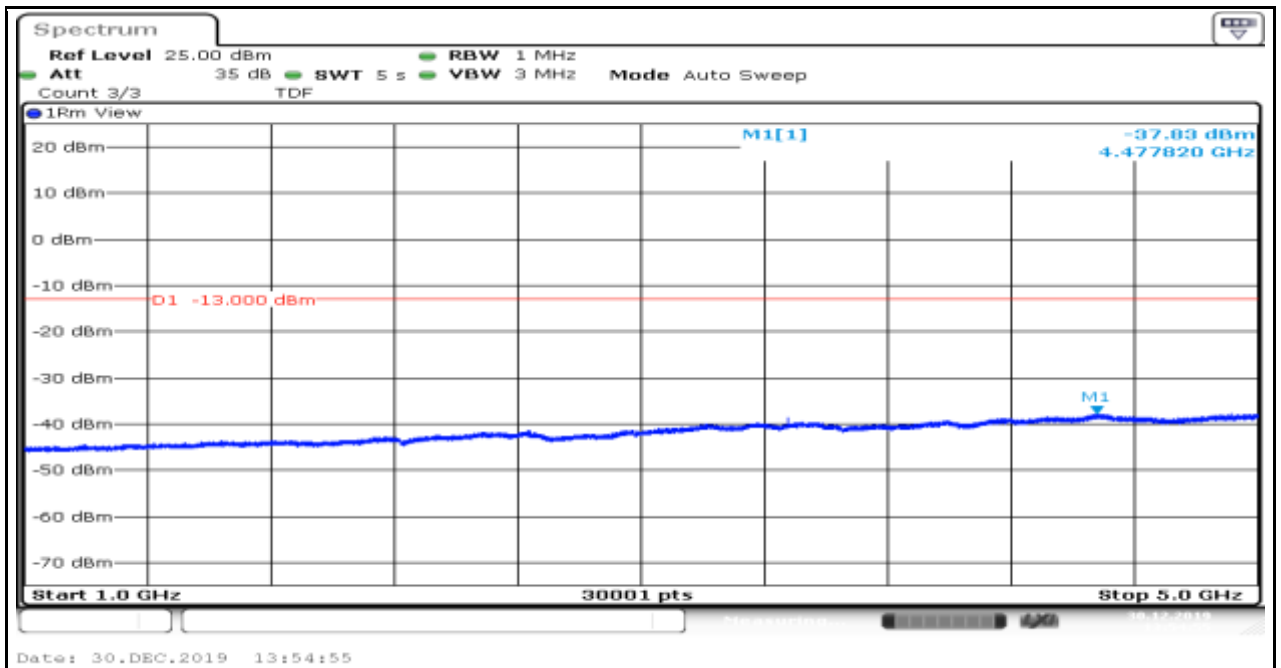


Band26_Stand-Alone_NaN_BPSK_26740_1@11_15kHz_30_1000_30~1000MHz@-35.89dBm_-13_PASS_

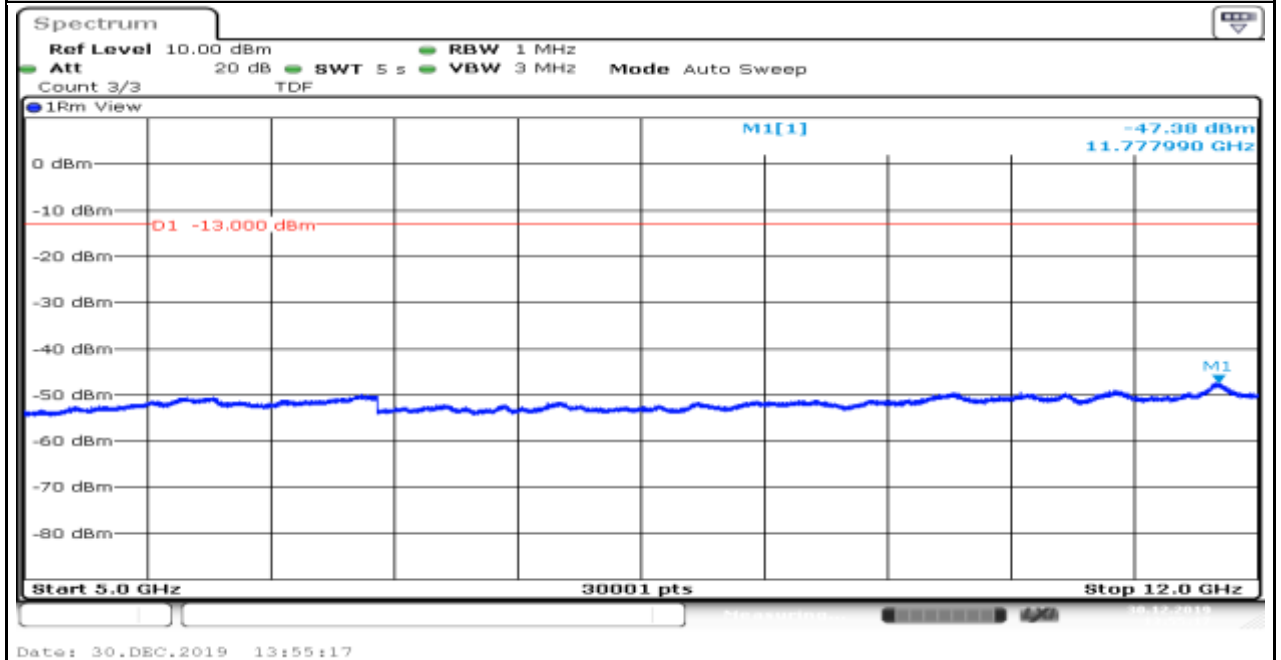


Band26_Stand-Alone_NaN_BPSK_26740_1@11_15kHz_5000_12000_5000~12000MHz@-47.49dBm_-13_PASS_

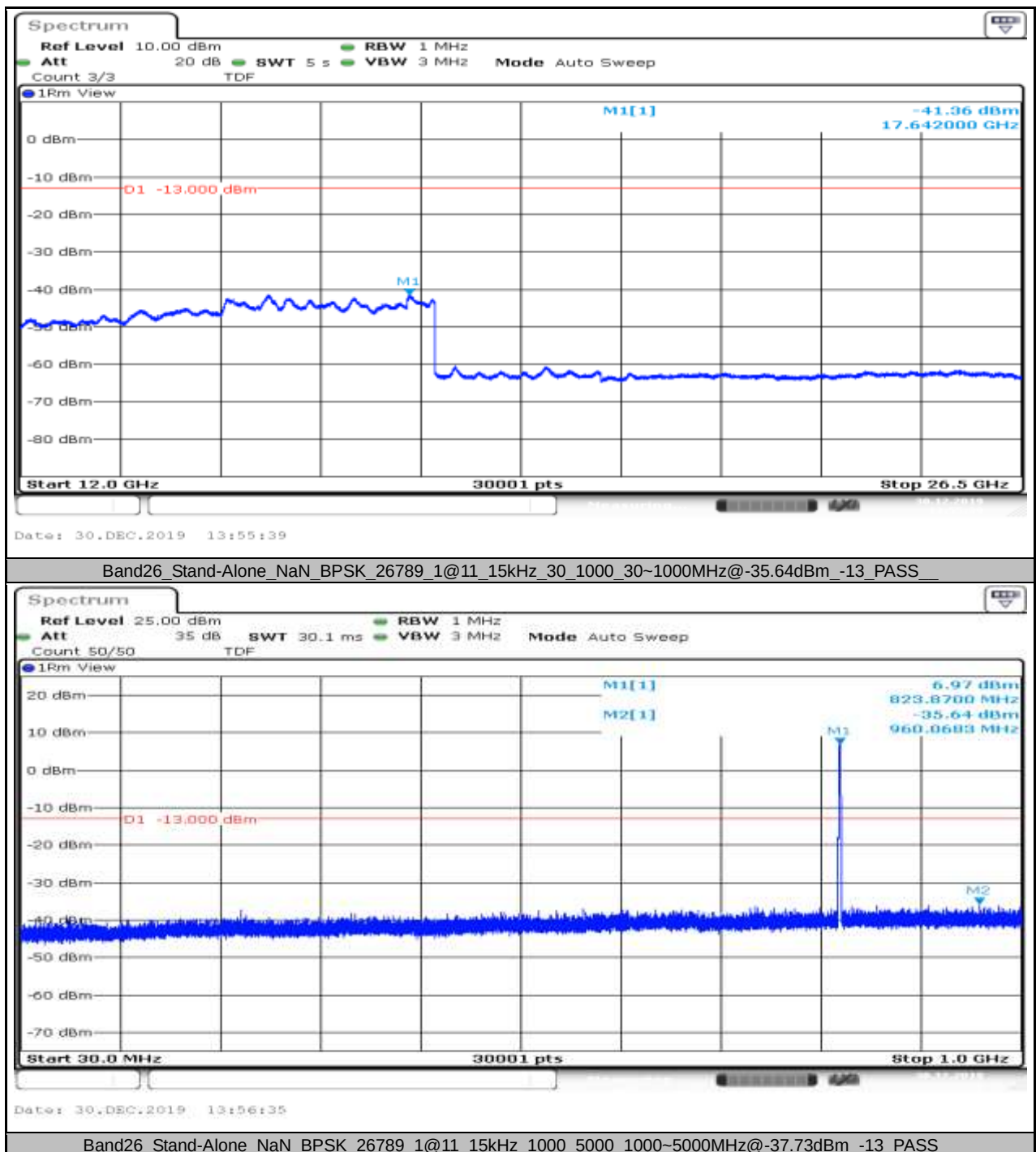




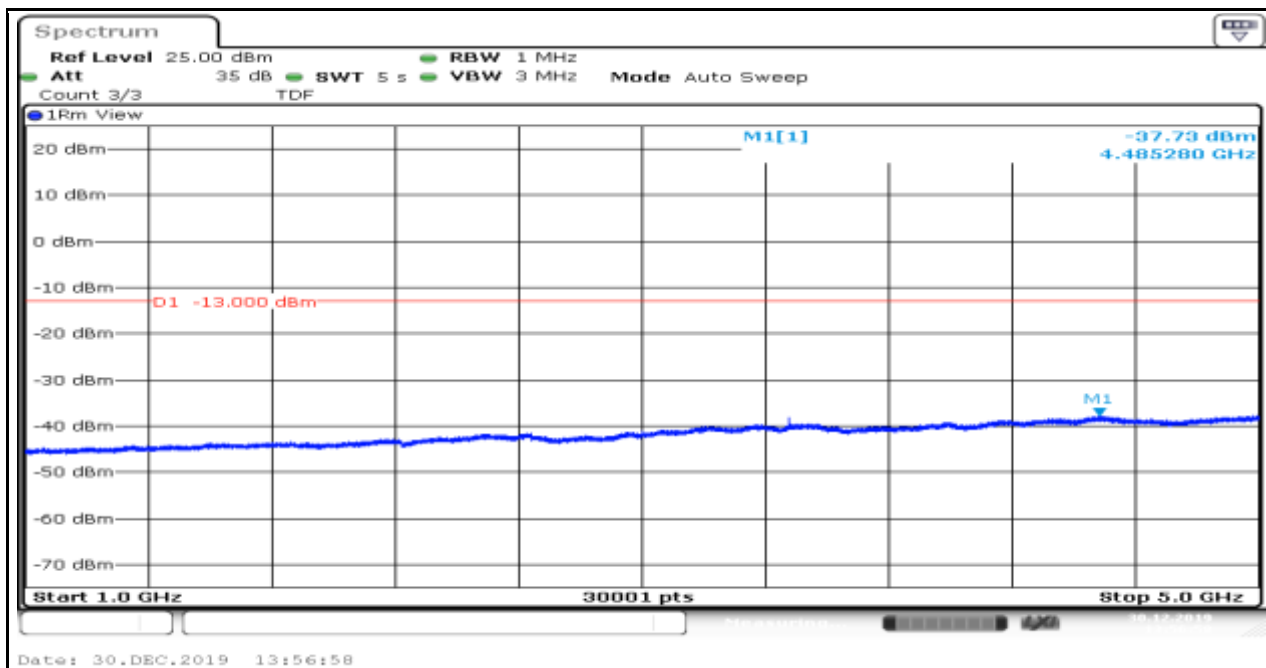
Band26_Stand-Alone_NaN_BPSK_26789_1@0_15kHz_5000_12000_5000~12000MHz@-47.38dBm_-13_PASS



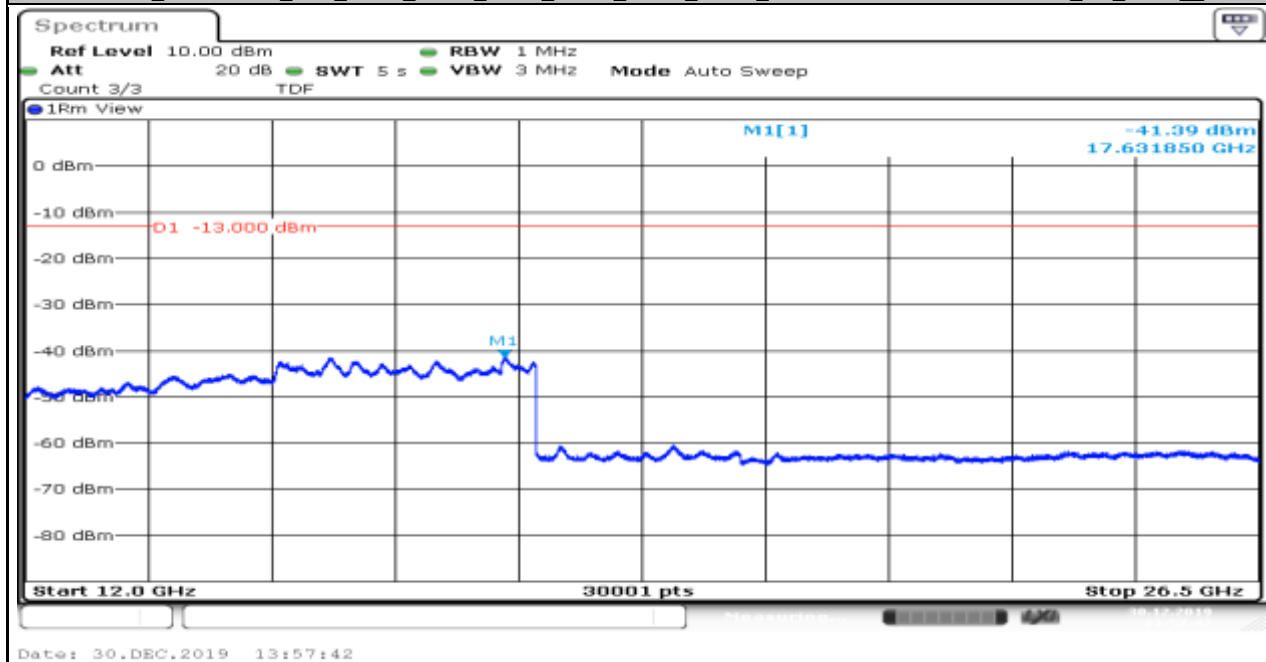
Band26_Stand-Alone_NaN_BPSK_26789_1@0_15kHz_12000_26500_12000~26500MHz@-41.36dBm_-13_PASS



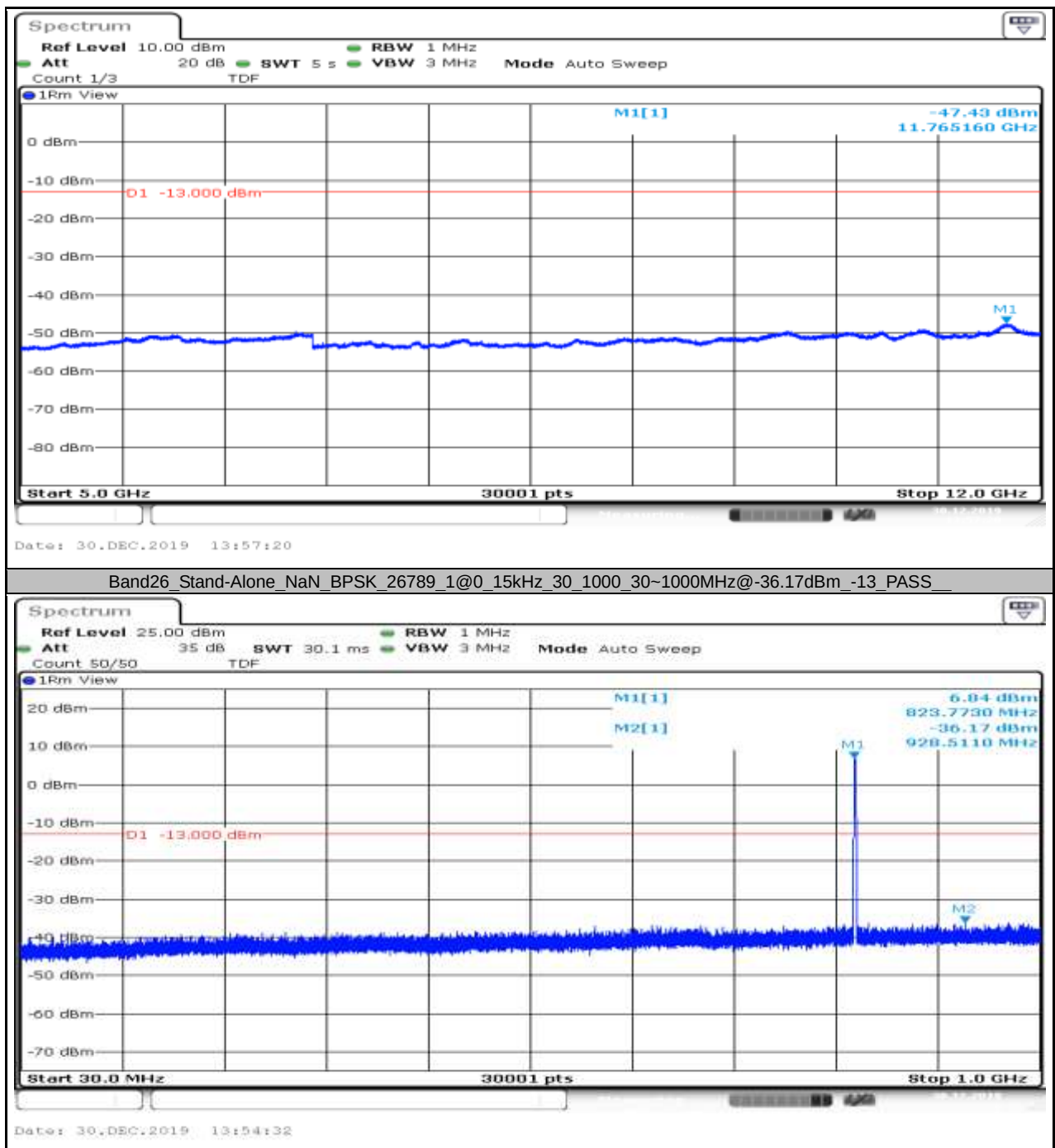
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Band26_Stand-Alone_NaN_BPSK_26789_1@11_15kHz_12000_26500_12000~26500MHz@-41.39dBm_-13_PASS



Band26_Stand-Alone_NaN_BPSK_26789_1@11_15kHz_5000_12000_5000~12000MHz@-47.43dBm_-13_PASS



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Appendix G.6: Frequency Stability for NB

Test Result

Voltage												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	HV	NT	-9.6	-0.011722	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	LV	NT	-15.49	-0.018913	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	NT	-15.75	-0.019231	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	HV	NT	-14.19	-0.017326	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	NT	-14.18	-0.017314	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	HV	NT	-15.64	-0.019096	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	LV	NT	-10.06	-0.012283	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	NT	-7.42	-0.00906	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	HV	NT	-9.83	-0.012002	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	LV	NT	-9.53	-0.011636	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	NT	-8.28	-0.01011	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	LV	NT	-14.49	-0.017692	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	80	-17.22	-0.021026	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	70	-13.03	-0.01591	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	60	-16.68	-0.020366	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	50	-14.79	-0.018059	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	40	-17.45	-0.021306	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	30	-13.2	-0.016117	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	20	-16.22	-0.019805	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	10	-17.02	-0.020781	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	0	-14.71	-0.017961	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	85	-14.53	-0.017741	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	-20	-13.85	-0.016911	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	40	-18.28	-0.02232	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	-10	-13.9	-0.016972	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	-40	-15.78	-0.019267	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	-30	-13.4	-0.016361	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	-20	-15.56	-0.018999	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	-10	-14.85	-0.018132	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	0	-18.01	-0.02199	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	10	-15.49	-0.018913	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	30	-14.82	-0.018095	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	50	-13.02	-0.015897	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	60	-17.87	-0.021819	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	70	-12.19	-0.014884	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	80	-15.61	-0.01906	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	-40	-14.98	-0.018291	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	85	-7.65	-0.009341	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	20	-15.46	-0.018877	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	-30	-8.2	-0.010012	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	15kHz	NV	-30	-13.7	-0.016728	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	-40	-10.4	-0.012698	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@11	15kHz	NV	85	-12.87	-0.015714	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	-20	-9.43	-0.011514	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	-10	-7.48	-0.009133	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	0	-8.03	-0.009805	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	10	-9.63	-0.011758	±2.5	PASS

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Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	20	-8.74	-0.010672	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	30	-8.5	-0.010379	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	40	-8.04	-0.009817	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	50	-7.32	-0.008938	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	60	-8.65	-0.010562	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	70	-8.9	-0.010867	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	80	-9.93	-0.012125	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	40	-9.67	-0.011807	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	70	-8.93	-0.010904	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@0	3.75kHz	NV	85	-9.26	-0.011306	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	50	-8.64	-0.010549	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	80	-8.63	-0.010537	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	30	-9.11	-0.011123	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	20	-8.38	-0.010232	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	10	-10.33	-0.012613	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	0	-7.57	-0.009243	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	-10	-7.98	-0.009744	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	-20	-6.98	-0.008523	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	-30	-8.94	-0.010916	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	-40	-9.06	-0.011062	±2.5	PASS
Band26	Stand-Alone	NaN	QPSK	26740	1@47	3.75kHz	NV	60	-10.23	-0.012491	±2.5	PASS