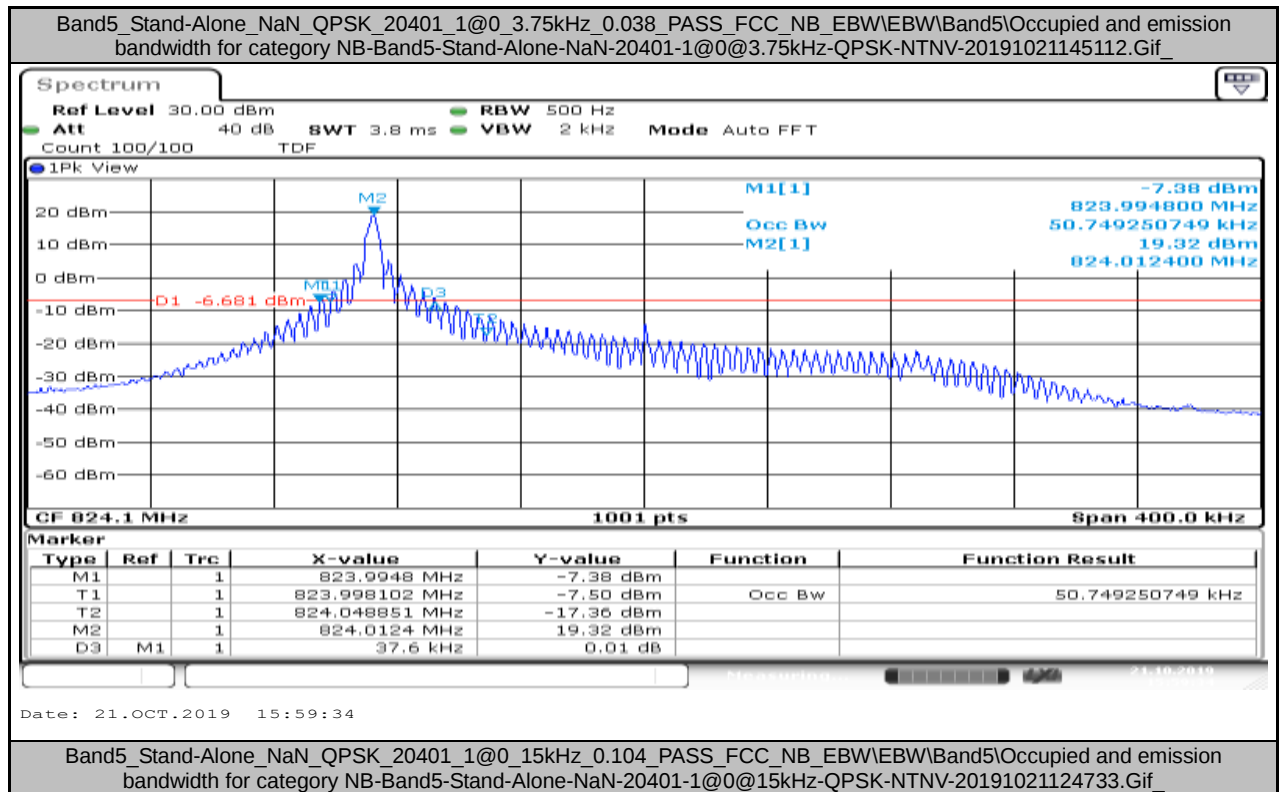


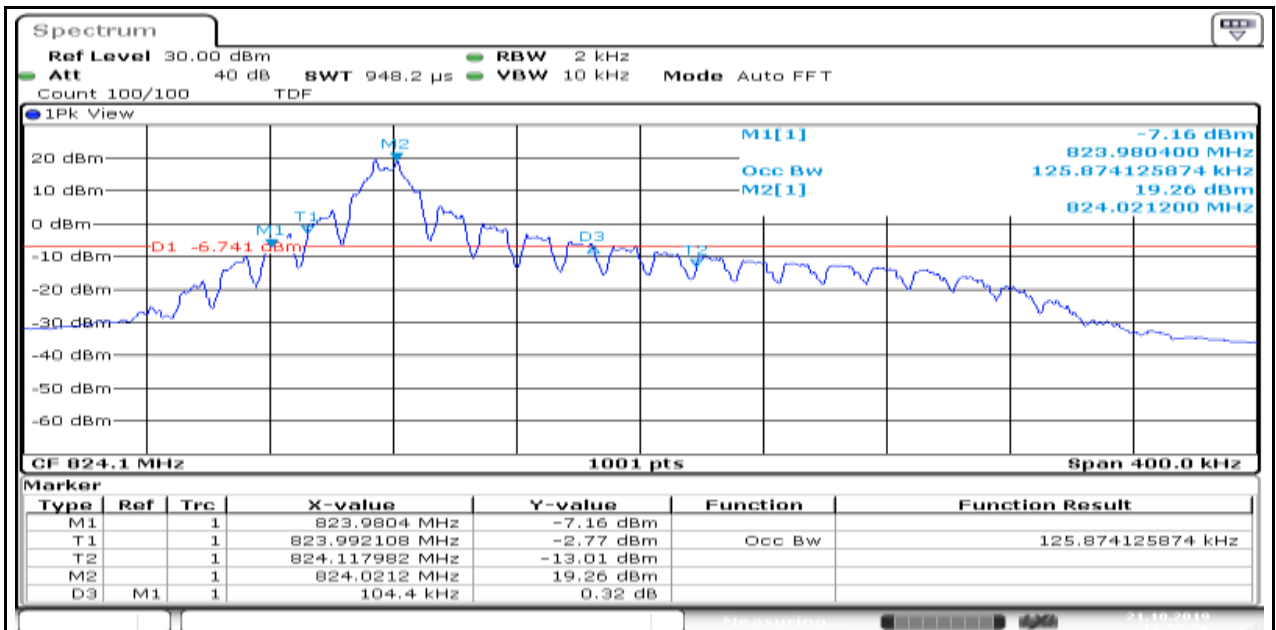
Appendix C.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

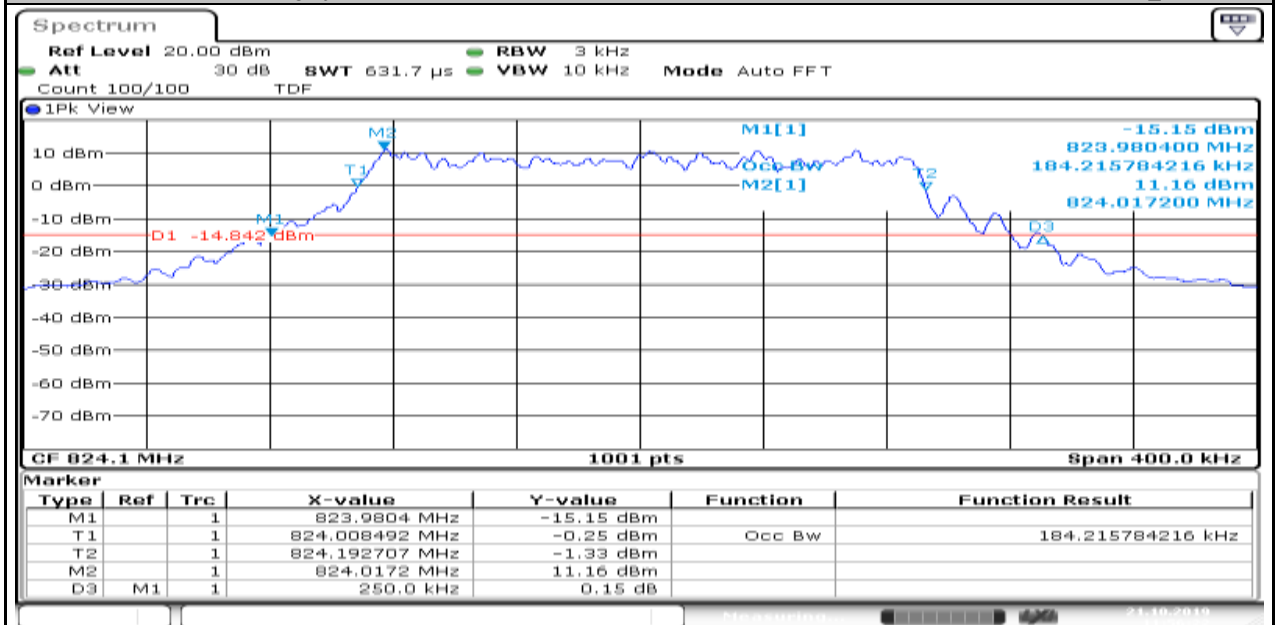
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	0.038	0.051	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	15kHz	0.104	0.126	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	0.250	0.184	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	0.038	0.052	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	0.104	0.125	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	0.250	0.184	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	0.038	0.052	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	15kHz	0.104	0.125	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	0.250	0.184	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	3.75kHz	0.032	0.054	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	0.104	0.126	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	3.75kHz	0.032	0.054	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	0.104	0.126	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	3.75kHz	0.032	0.054	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	0.104	0.126	PASS

Test Graphs

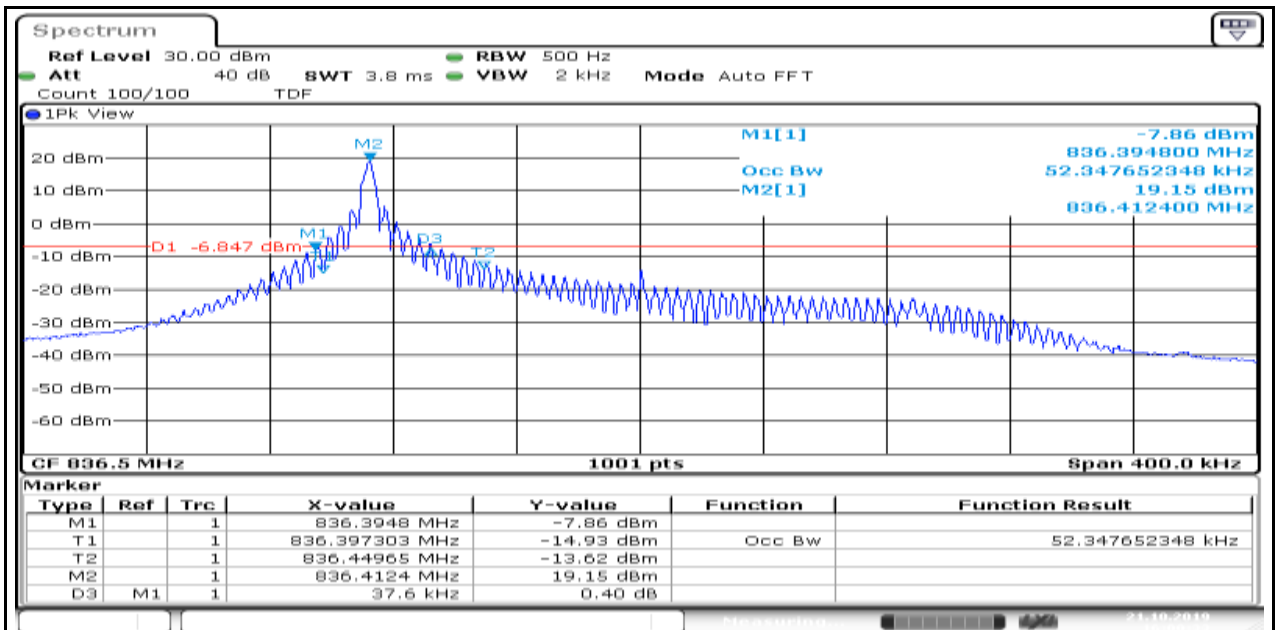




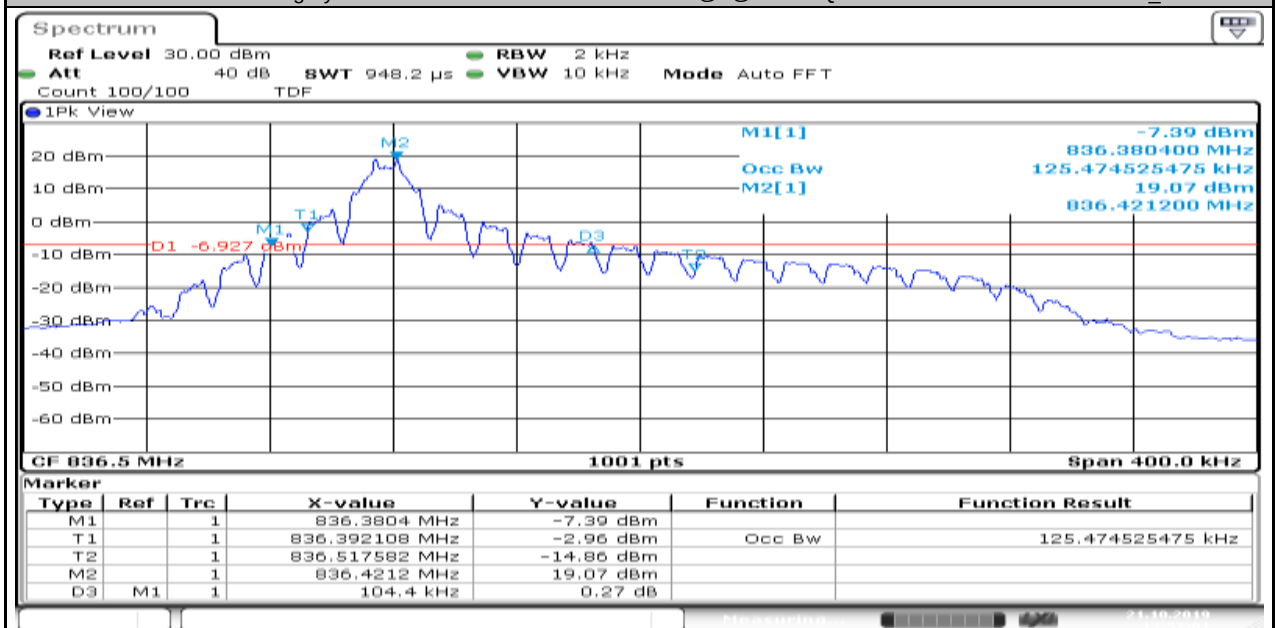
Band5_Stand-Alone_NaN_QPSK_20401_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20401-12@0@15kHz-QPSK-NTNV-2019102110481.Gif_



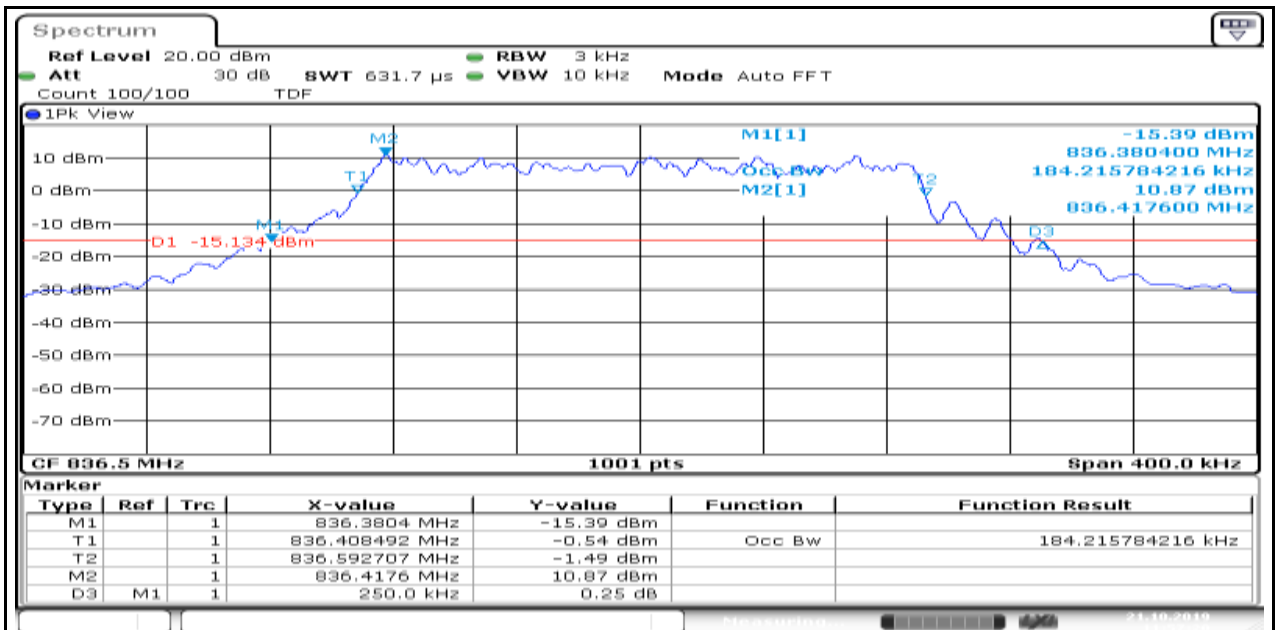
Band5_Stand-Alone_NaN_QPSK_20525_1@0_3.75kHz_0.038_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20525-1@0@3.75kHz-QPSK-NTNV-20191021145211.Gif_



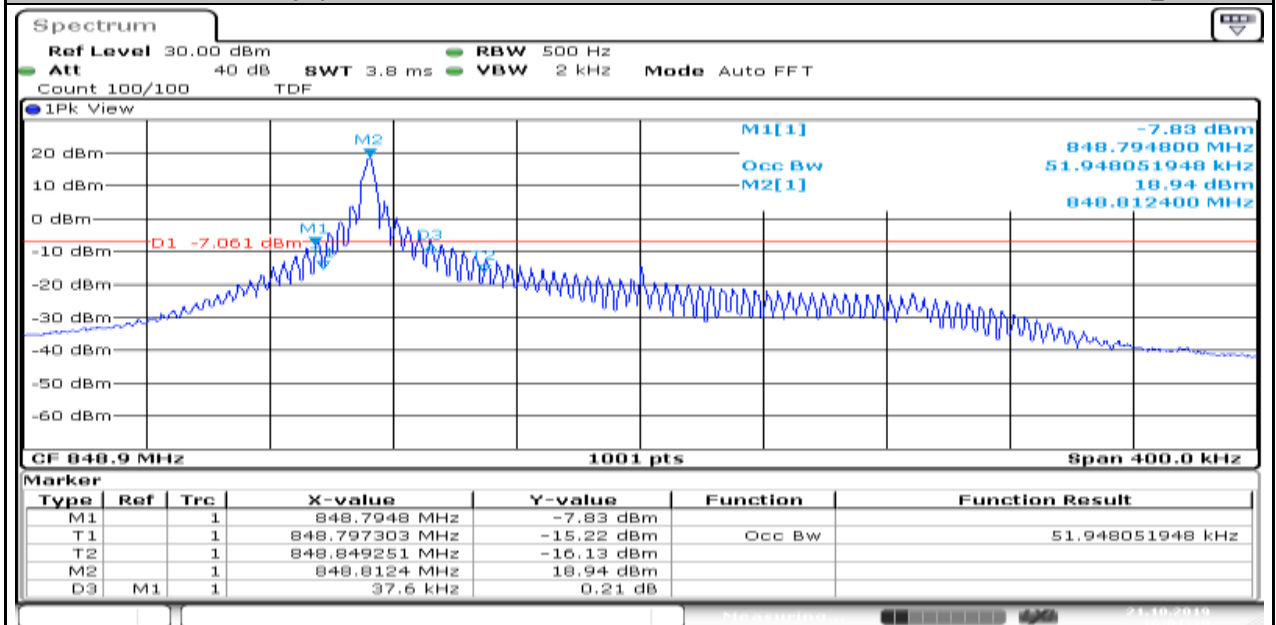
Band5_Stand-Alone_NaN_QPSK_20525_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20525-1@0@15kHz-QPSK-NTNV-20191021124839.Gif_



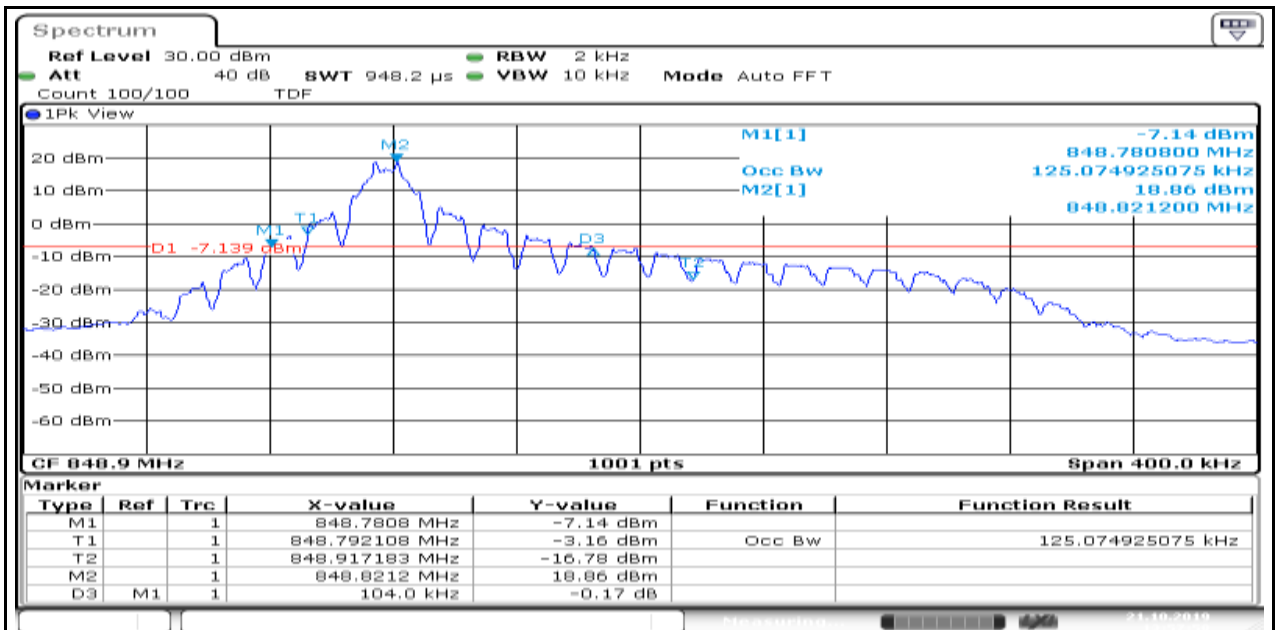
Band5_Stand-Alone_NaN_QPSK_20525_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20525-12@0@15kHz-QPSK-NTNV-20191021104858.Gif_



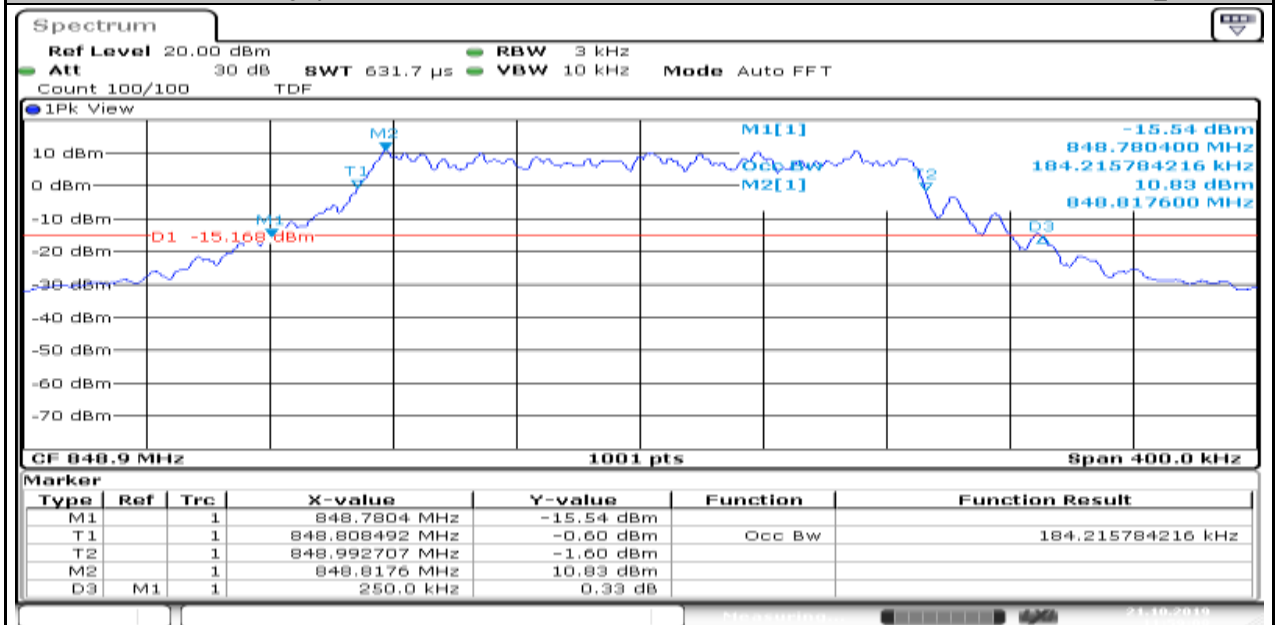
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_0.038_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20649-1@0@3.75kHz-QPSK-NTNV-2019102114538.Gif_



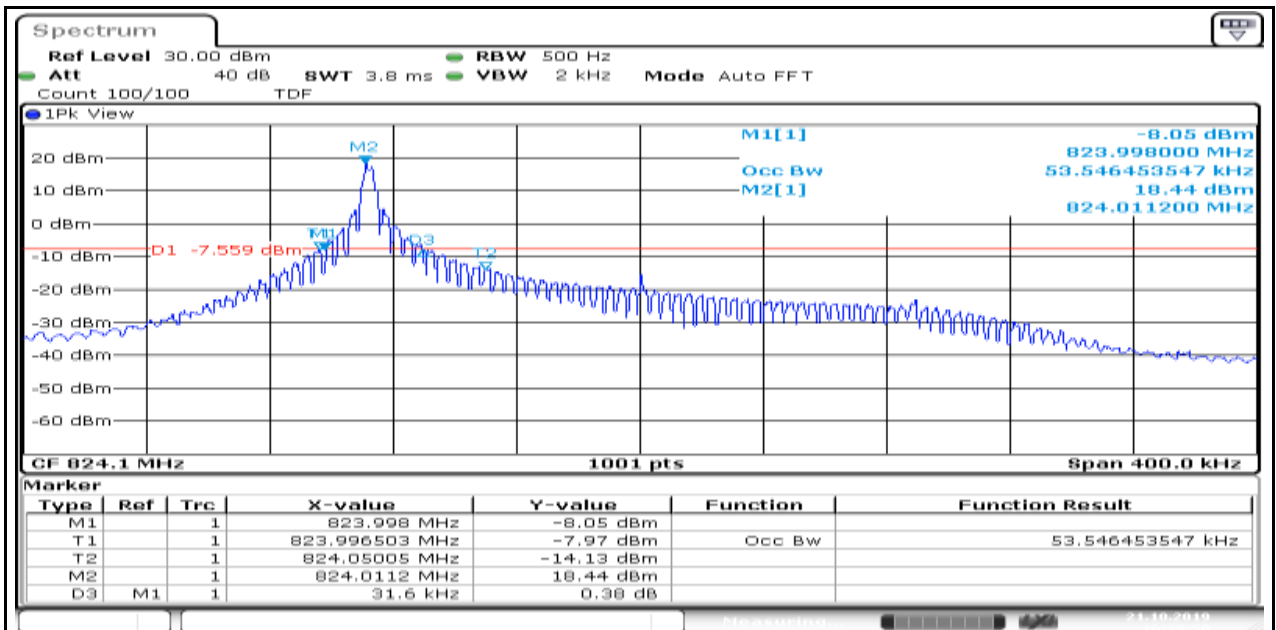
Band5_Stand-Alone_NaN_QPSK_20649_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20649-1@0@15kHz-QPSK-NTNV-20191021124936.Gif_



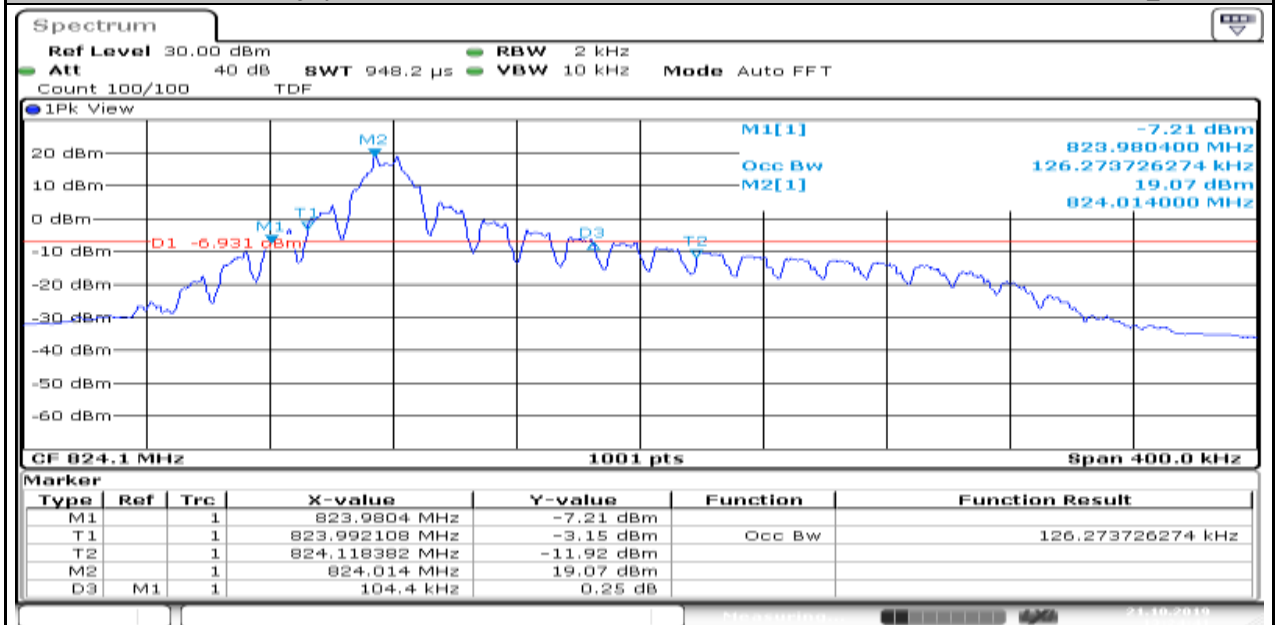
Band5_Stand-Alone_NaN_QPSK_20649_12@0_15kHz_0.250_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20649-12@0@15kHz-QPSK-NTNV-20191021105046.Gif_



Band5_Stand-Alone_NaN_BPSK_20401_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20401-1@0@3.75kHz-BPSK-NTNV-20191021153128.Gif_

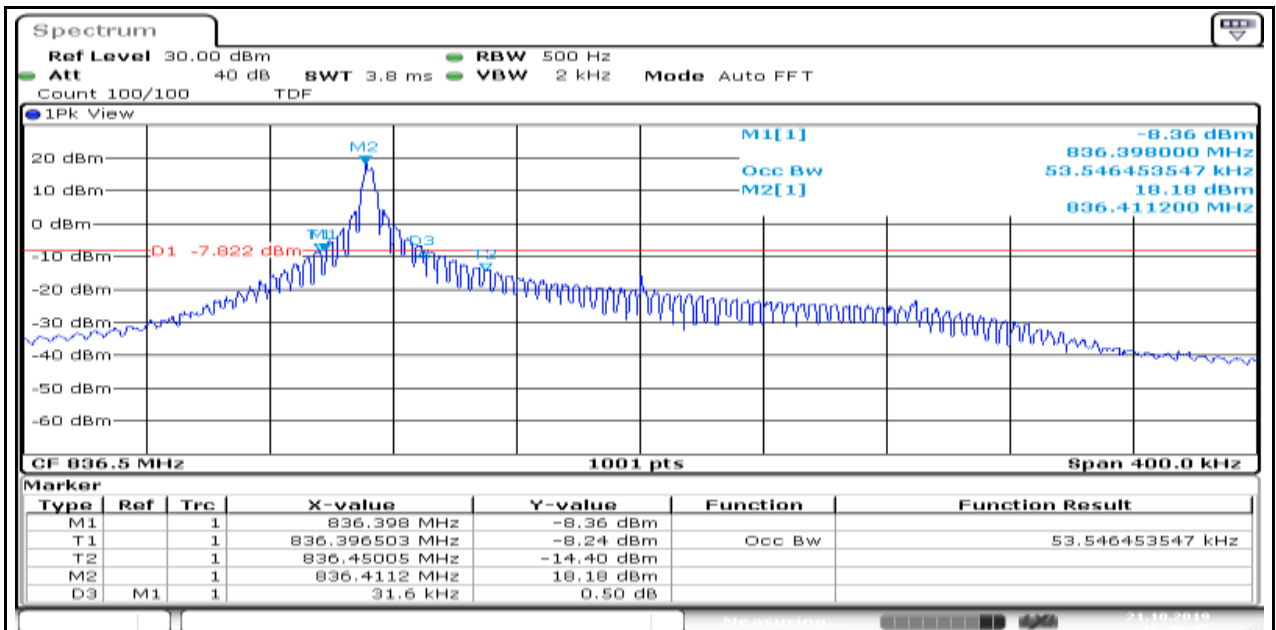


Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20401-1@0@15kHz-BPSK-NTNV-20191021121619.Gif_

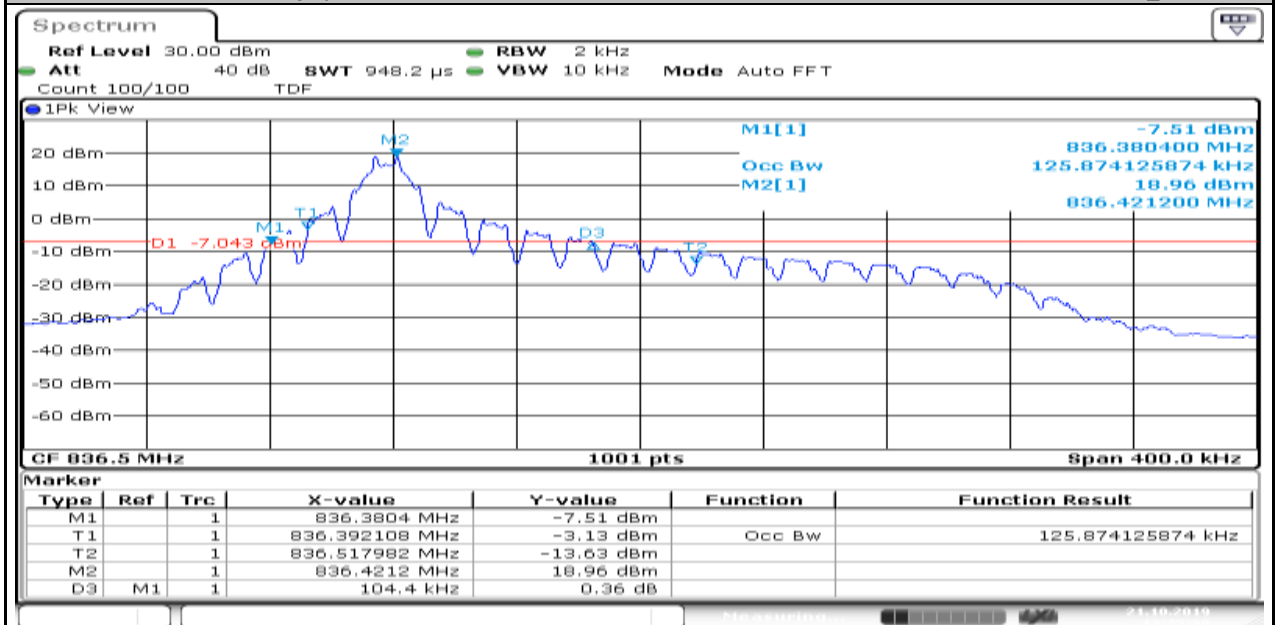


Band5_Stand-Alone_NaN_BPSK_20525_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20525-1@0@3.75kHz-BPSK-NTNV-20191021153225.Gif_

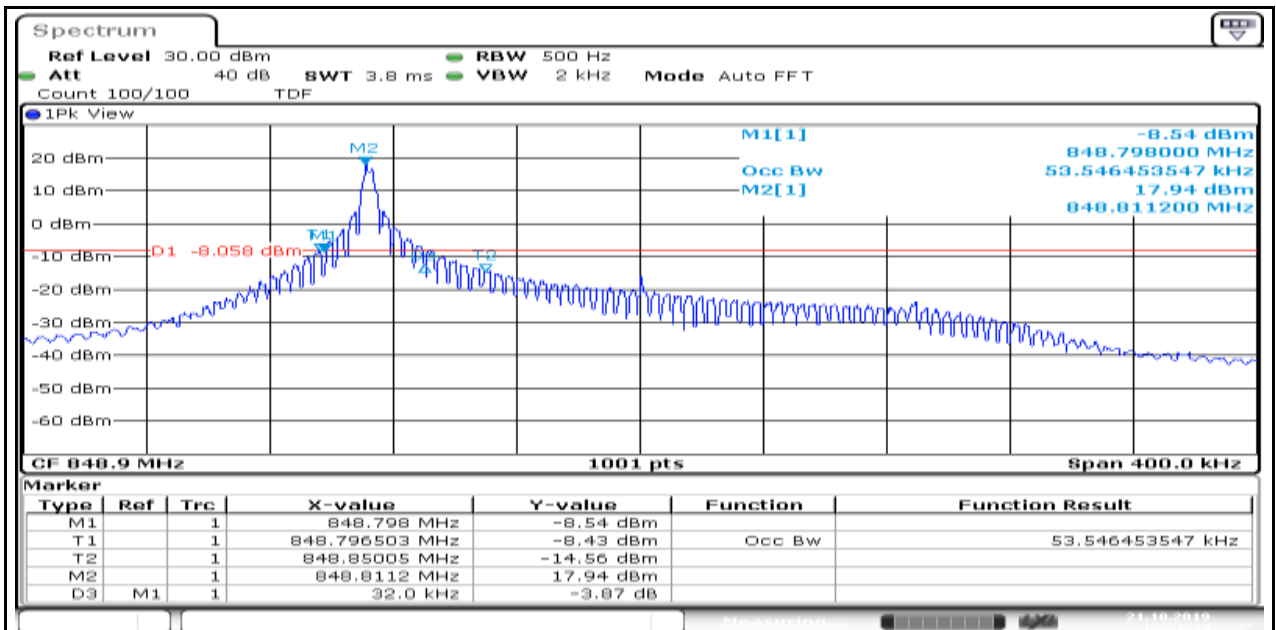
Produkte
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Band5_Stand-Alone_NaN_BPSK_20525_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20525-1@0@15kHz-BPSK-NTNV-20191021121717.Gif_

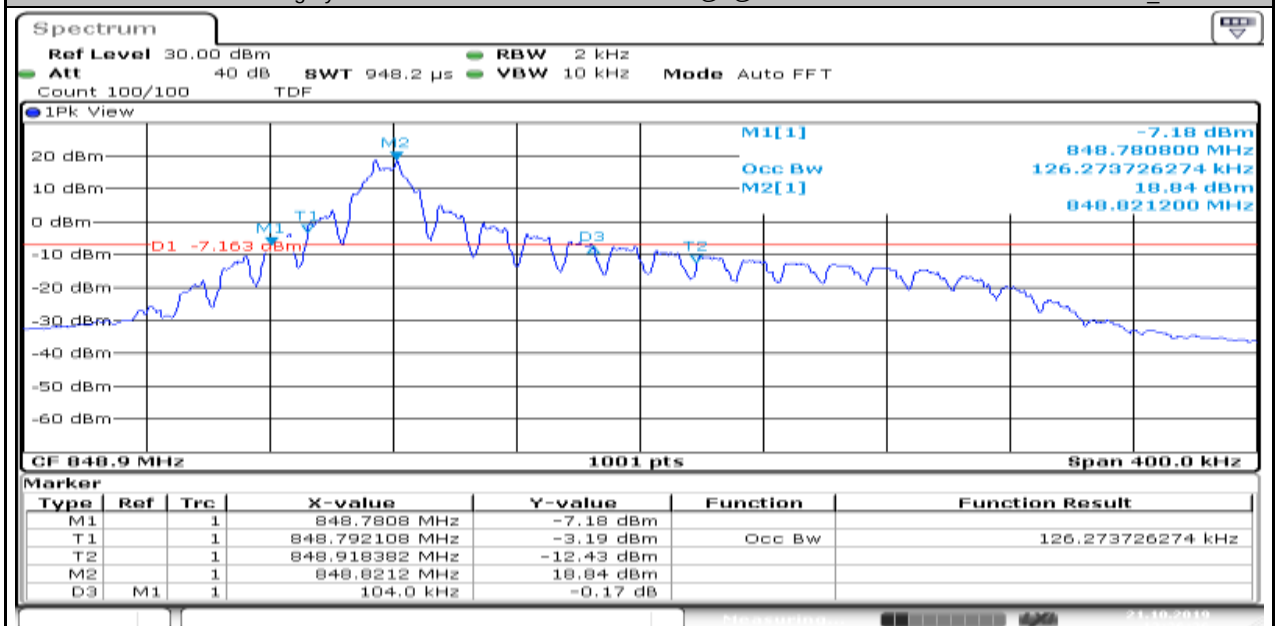


Band5_Stand-Alone_NaN_BPSK_20649_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20649-1@0@3.75kHz-BPSK-NTNV-20191021153322.Gif_



Date: 21.OCT.2019 16:41:44

Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_0.104_PASS_FCC_NB_EBW\EBW\Band5\Occupied and emission bandwidth for category NB-Band5-Stand-Alone-NaN-20649-1@0@15kHz-BPSK-NTNV-20191021121814.Gif_

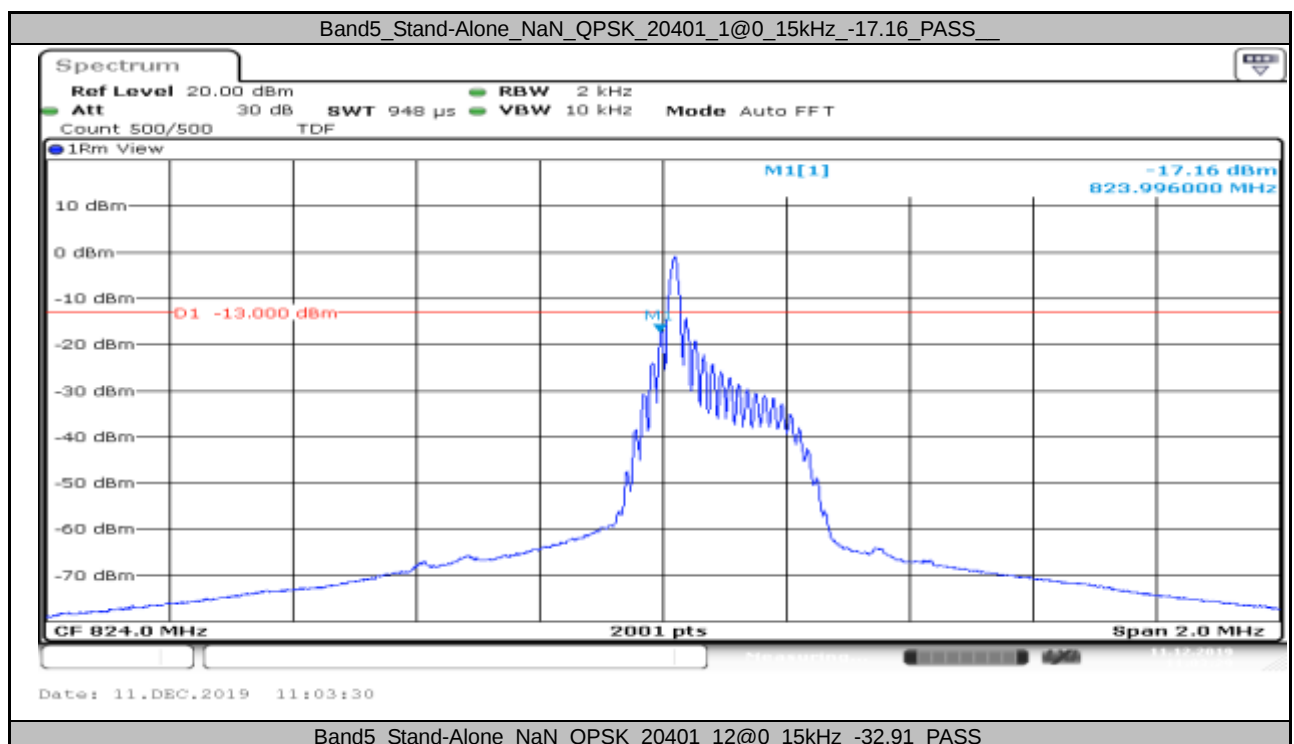


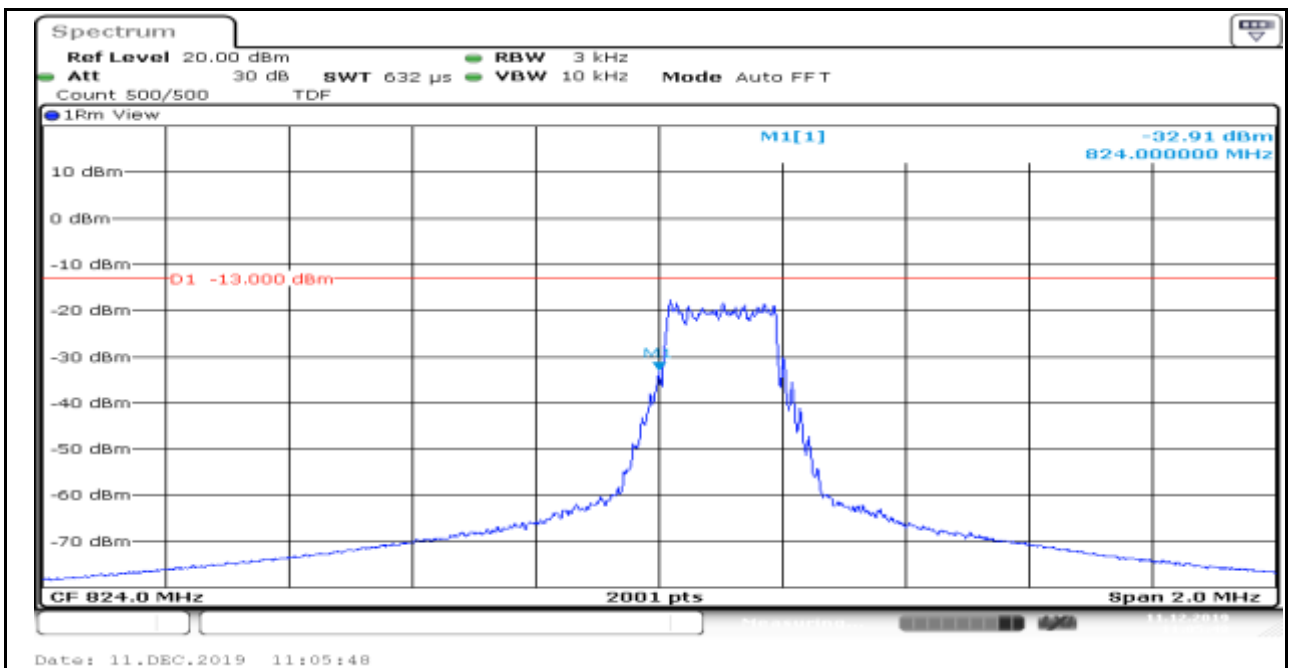
Date: 21.OCT.2019 13:26:36

Appendix C.4: Band Edge for NB Test Result

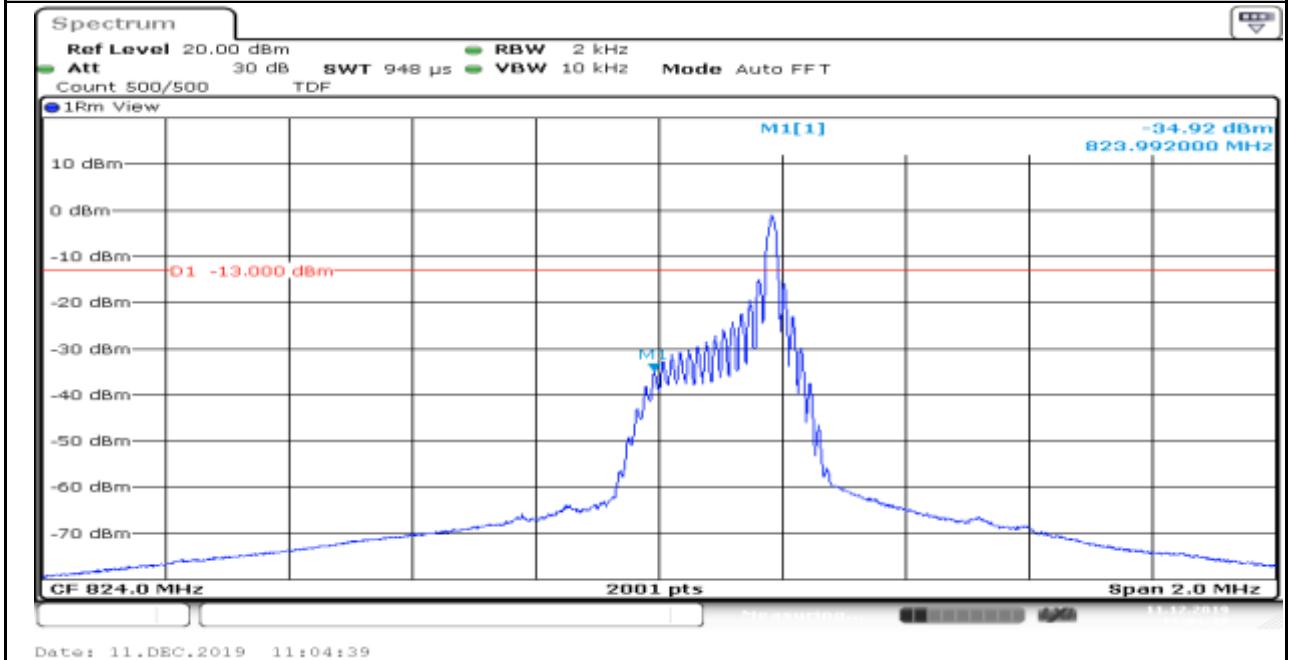
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	1@0	15kHz	-17.16	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	-32.91	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@11	15kHz	-34.92	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	-22.11	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	-43.41	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	-43.36	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	15kHz	-34.94	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@11	15kHz	-15.93	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	-29.83	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	-21.28	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@47	3.75kHz	-42.63	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	-14.95	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	3.75kHz	-20.46	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	-33.64	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	3.75kHz	-42.28	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@47	3.75kHz	-20.88	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	-34.04	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	-15.01	PASS

Test Graphs

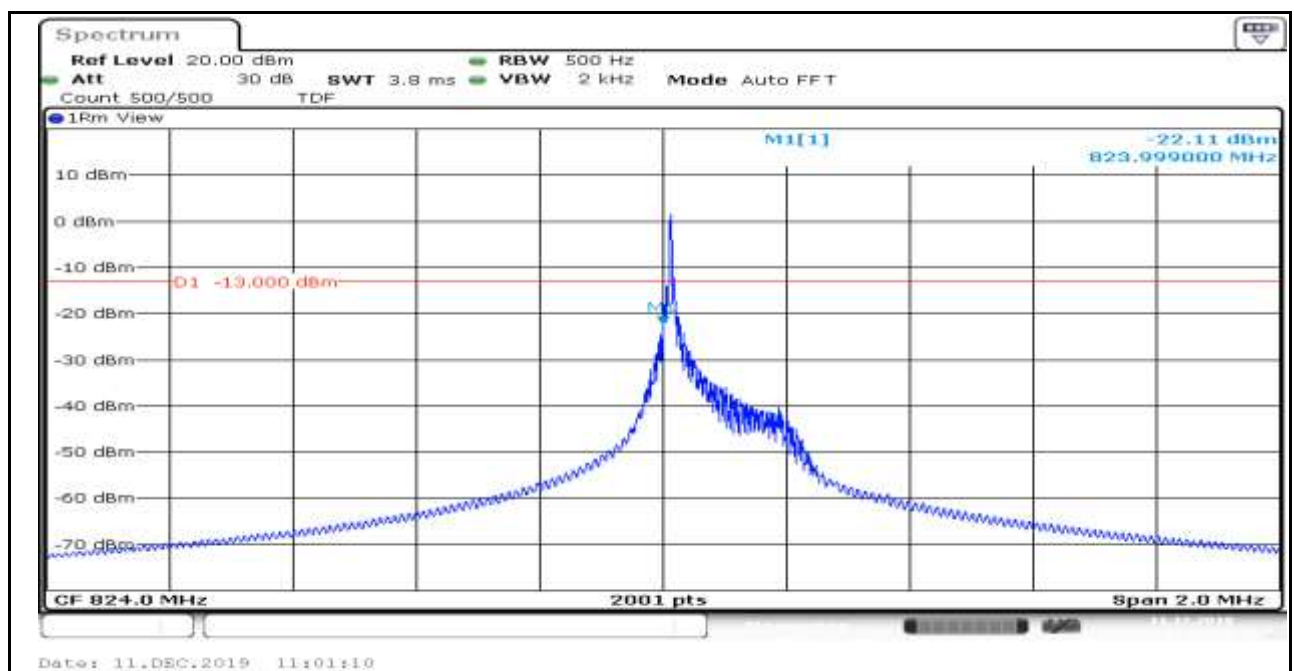




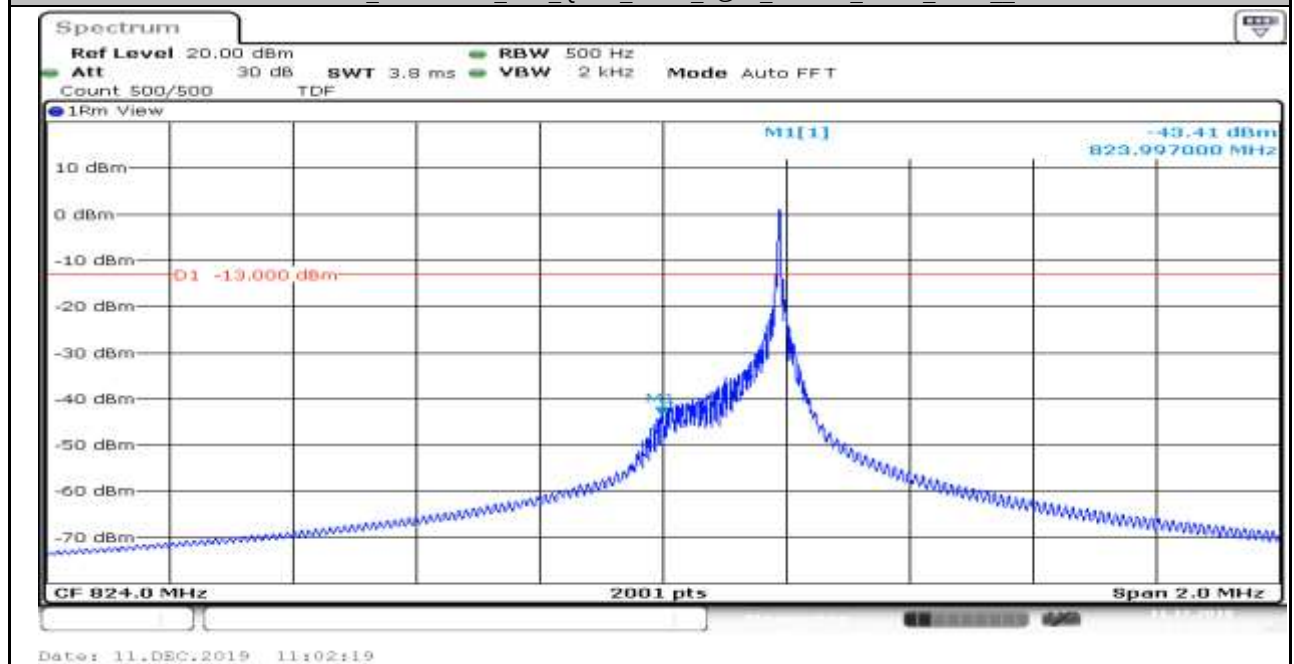
Band5_Stand-Alone_NaN_QPSK_20401_1@11_15kHz_-34.92_PASS_



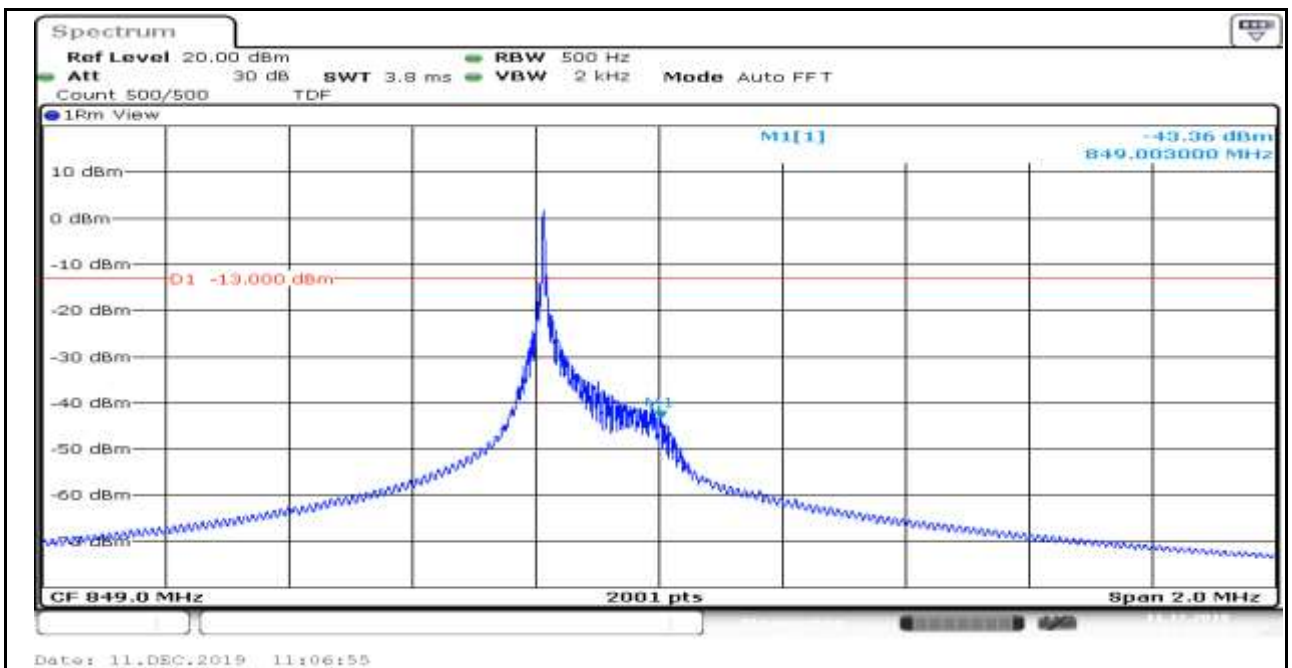
Band5_Stand-Alone_NaN_QPSK_20401_1@0_3.75kHz_-22.11_PASS_



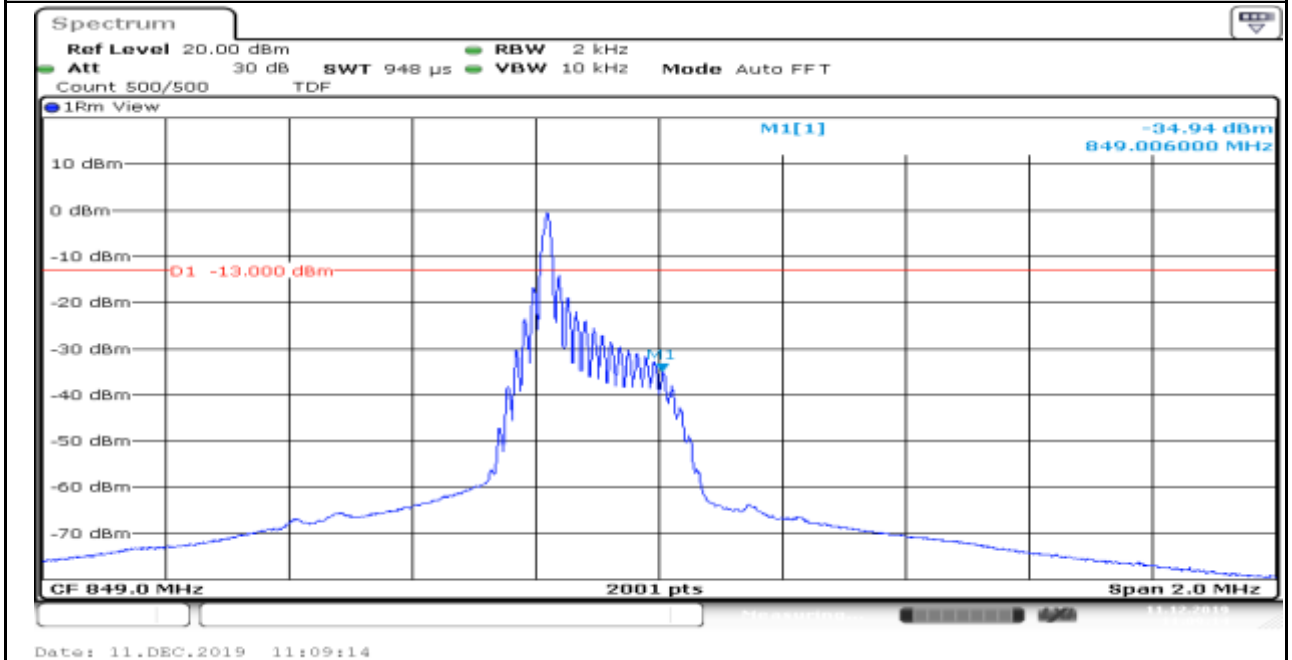
Band5_Stand-Alone_NaN_QPSK_20401_1@47_3.75kHz_-43.41_PASS_



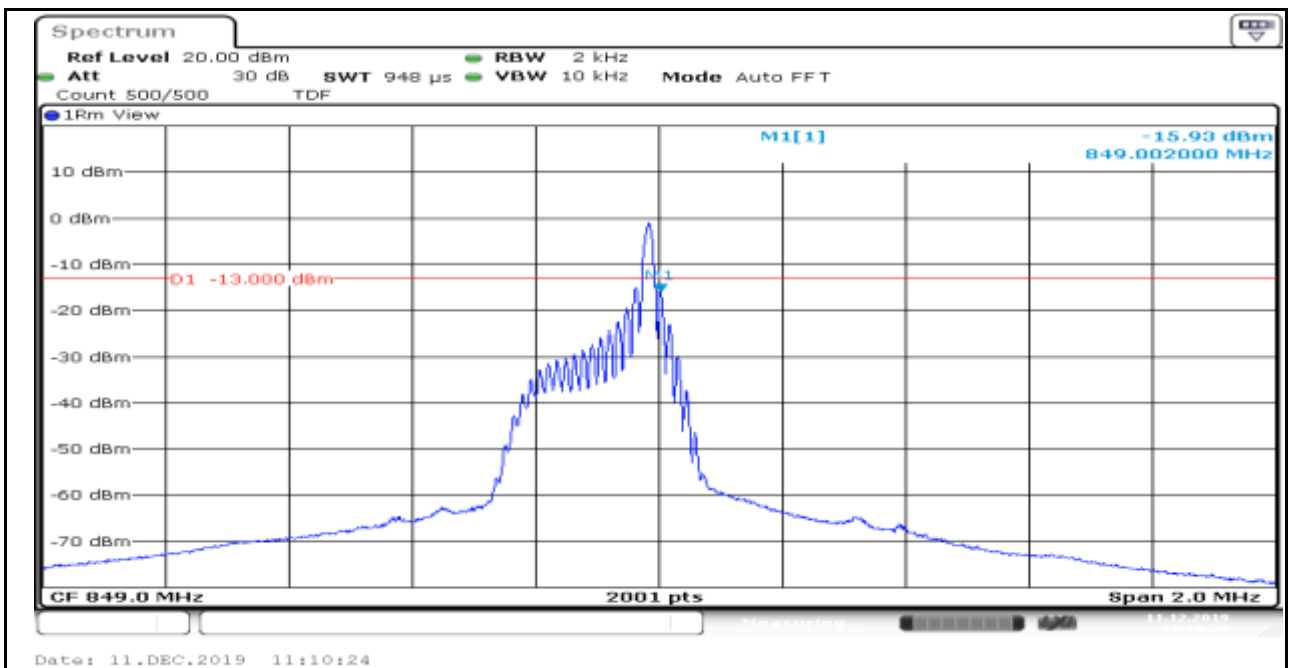
Band5_Stand-Alone_NaN_QPSK_20649_1@0_3.75kHz_-43.36_PASS_



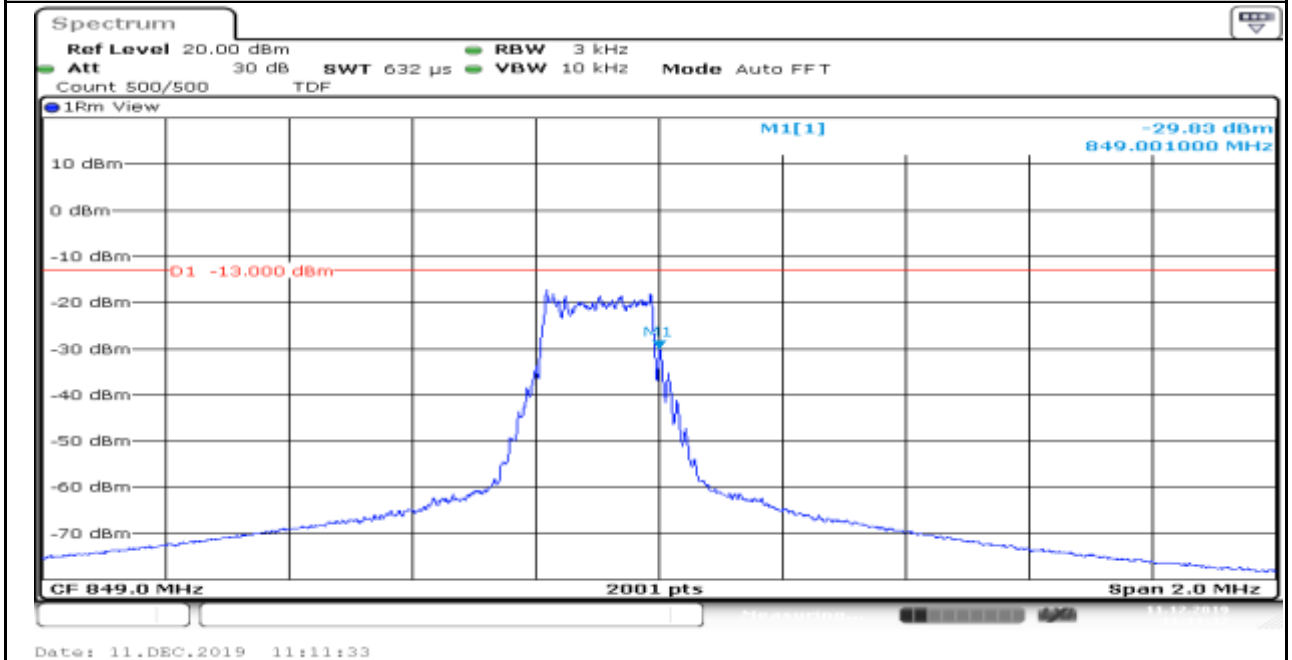
Band5_Stand-Alone_NaN_QPSK_20649_1@0_15kHz_-34.94_PASS_



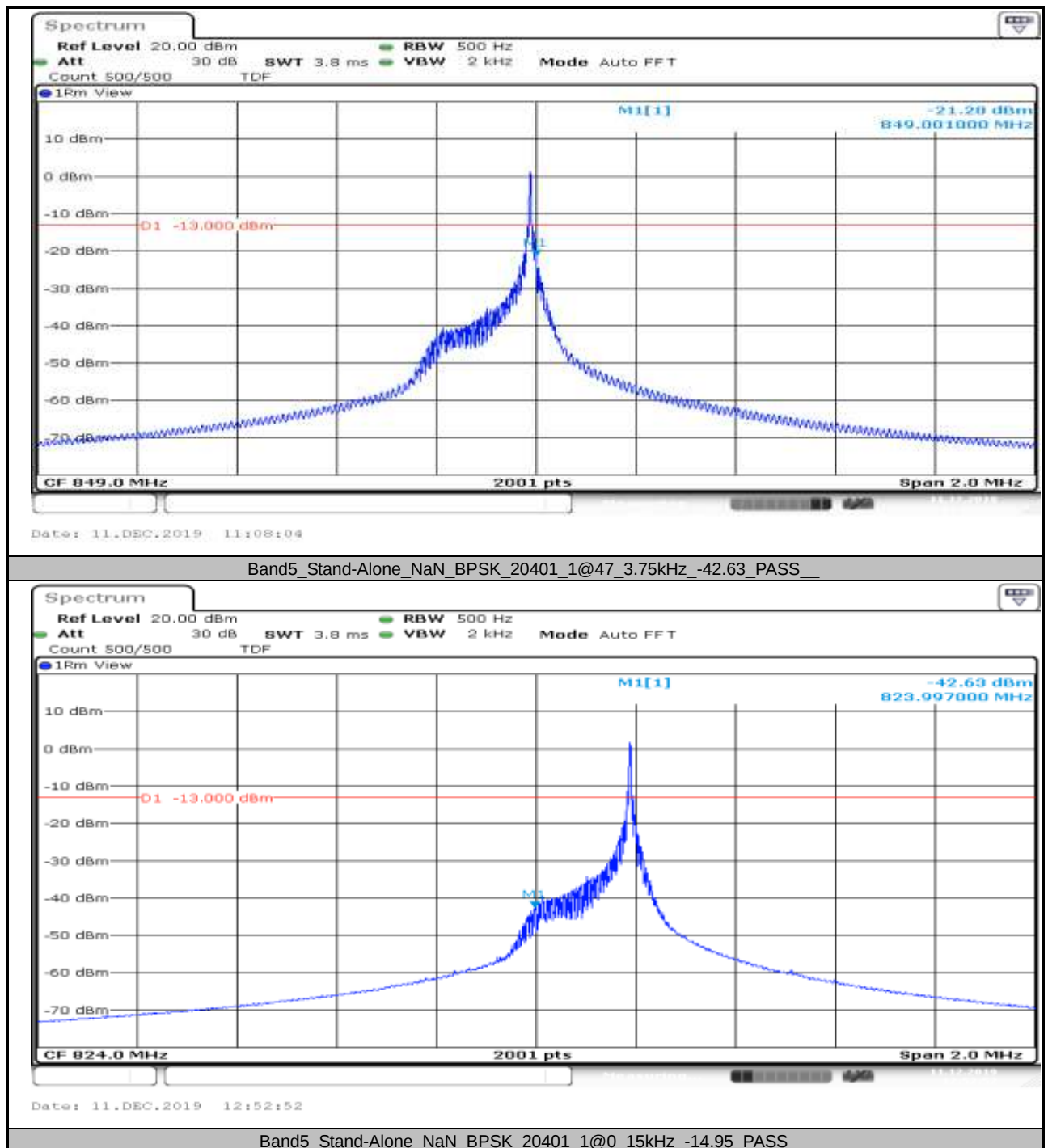
Band5_Stand-Alone_NaN_QPSK_20649_1@11_15kHz_-15.93_PASS_

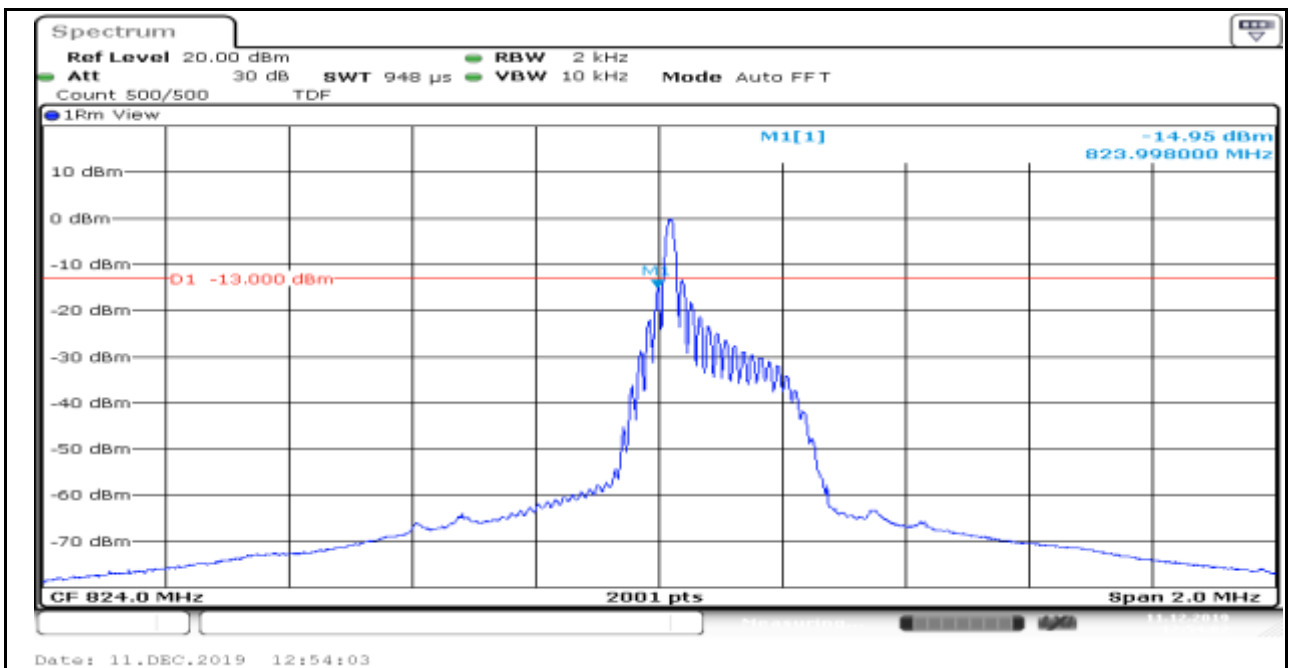


Band5_Stand-Alone_NaN_QPSK_20649_12@0_15kHz_-29.83_PASS_

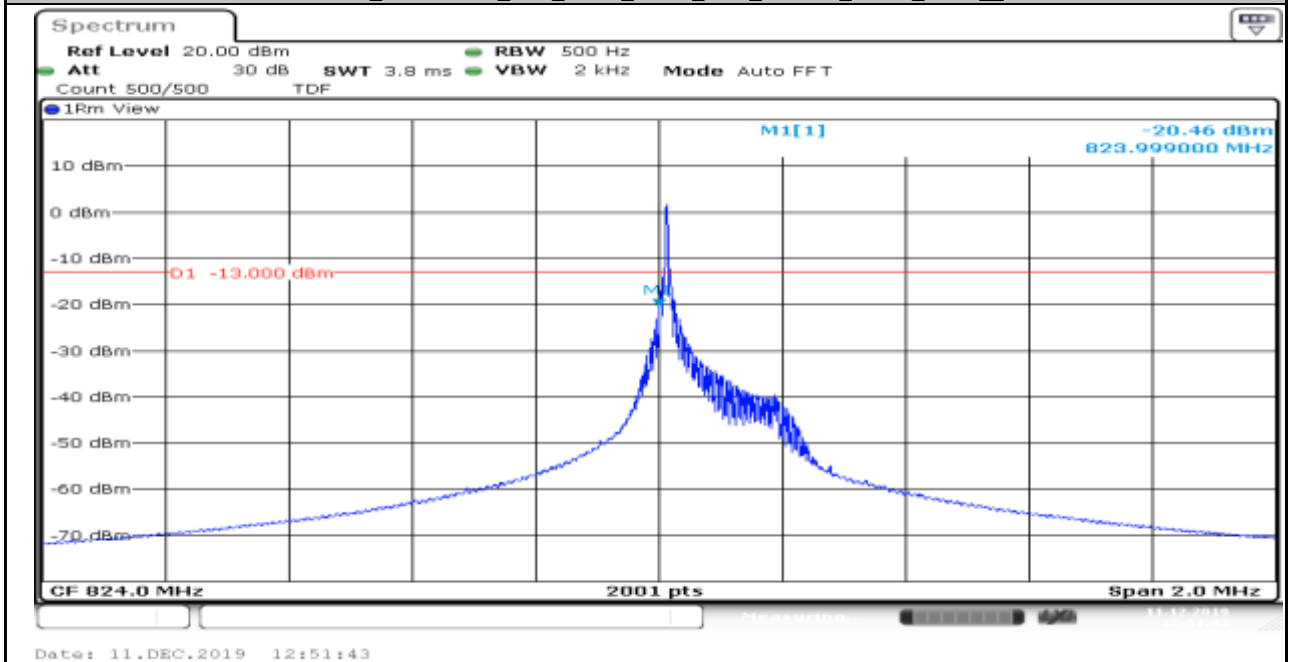


Band5_Stand-Alone_NaN_QPSK_20649_1@47_3.75kHz_-21.28_PASS_

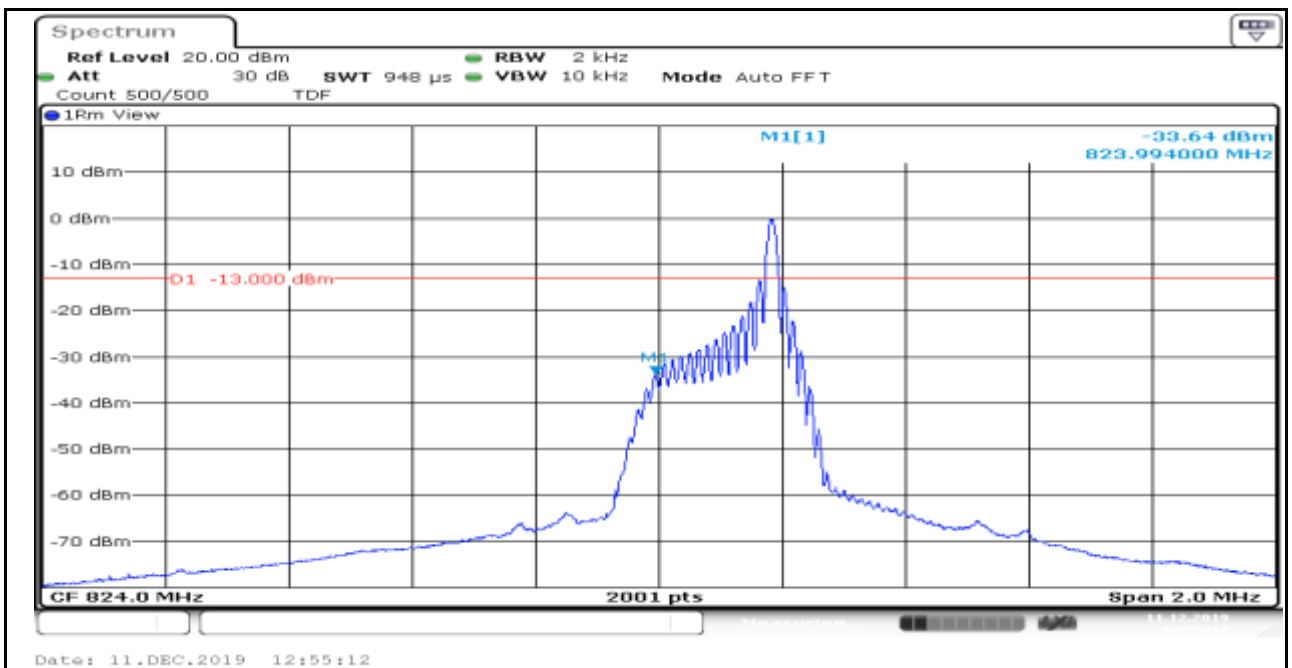




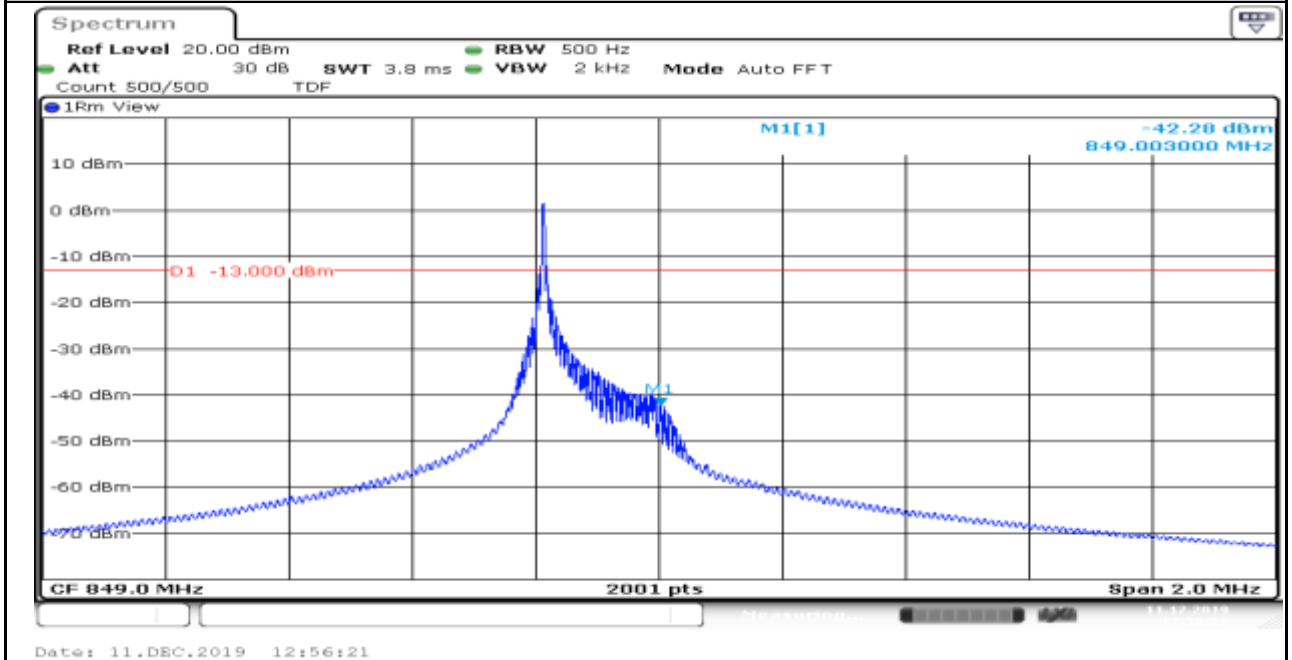
Band5_Stand-Alone_NaN_BPSK_20401_1@0_3.75kHz_-20.46_PASS_



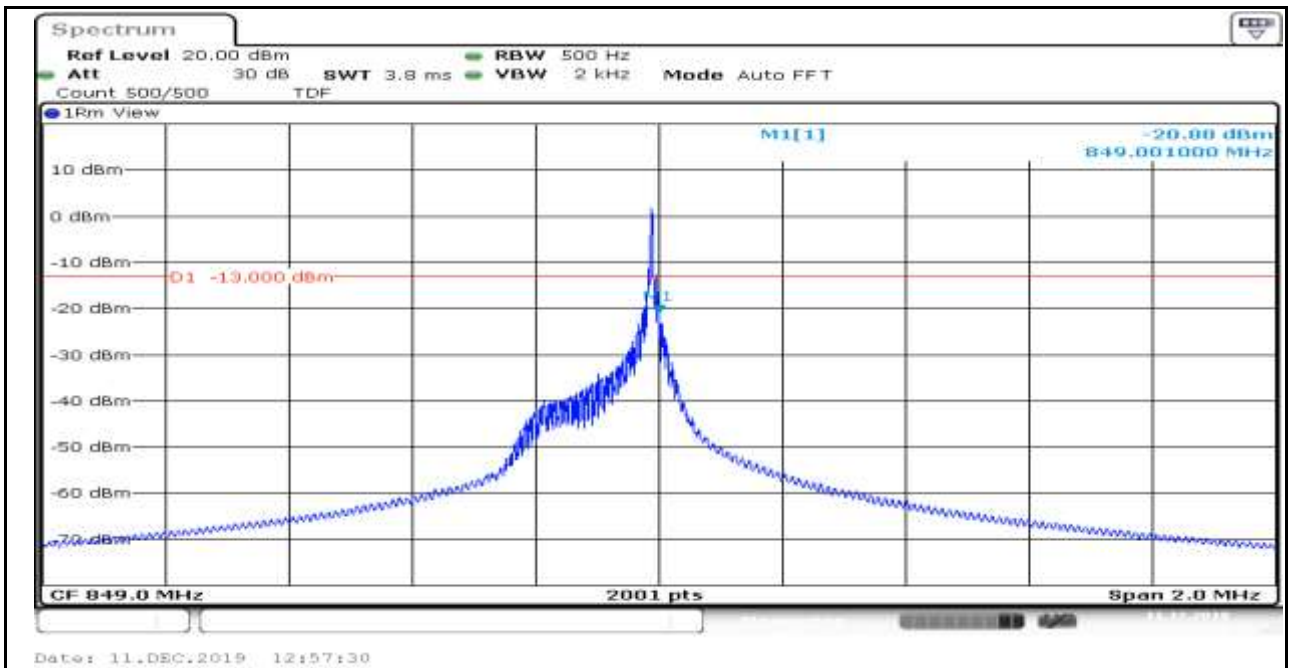
Band5_Stand-Alone_NaN_BPSK_20401_1@11_15kHz_-33.64_PASS_



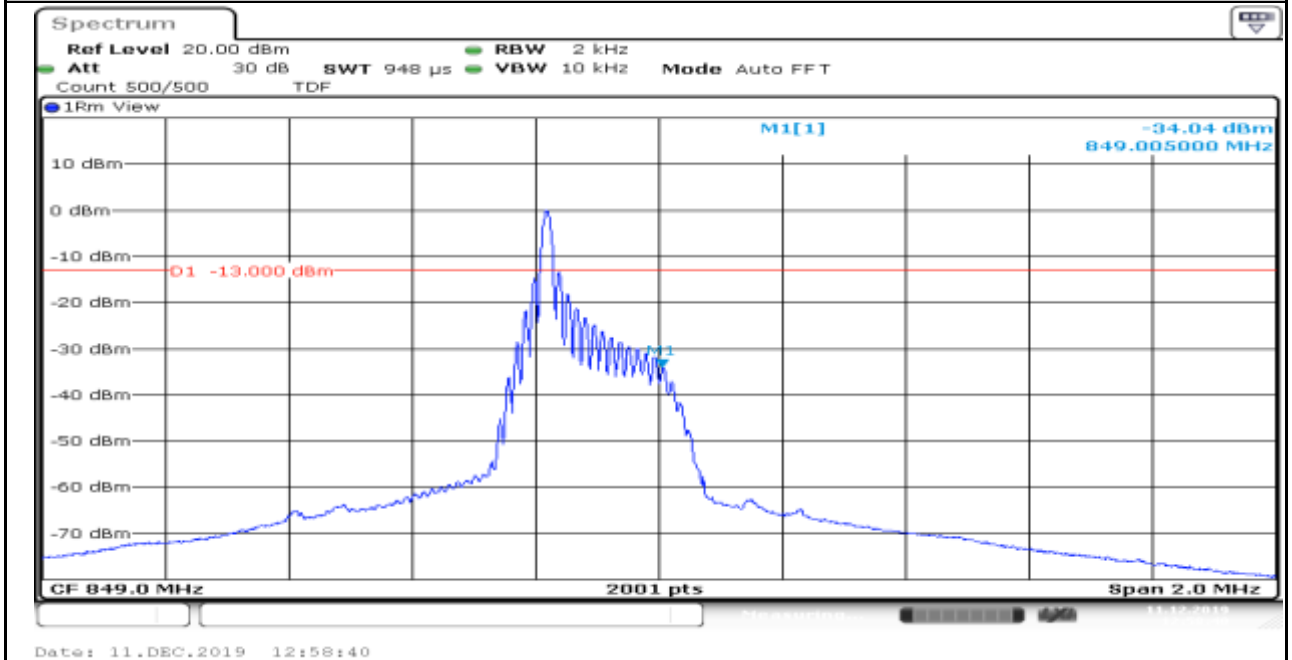
Band5_Stand-Alone_NaN_BPSK_20649_1@0_3.75kHz_-42.28_PASS_



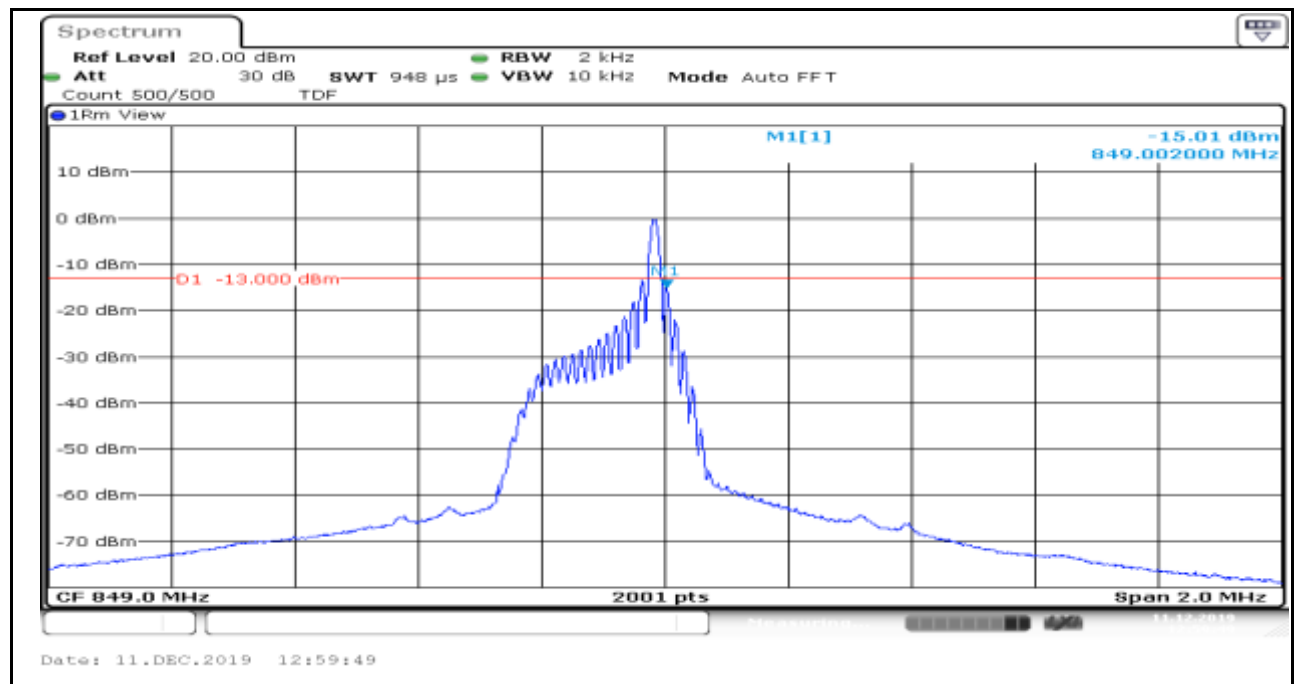
Band5_Stand-Alone_NaN_BPSK_20649_1@47_3.75kHz_-20.88_PASS_



Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_-34.04_PASS_



Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_-15.01_PASS_



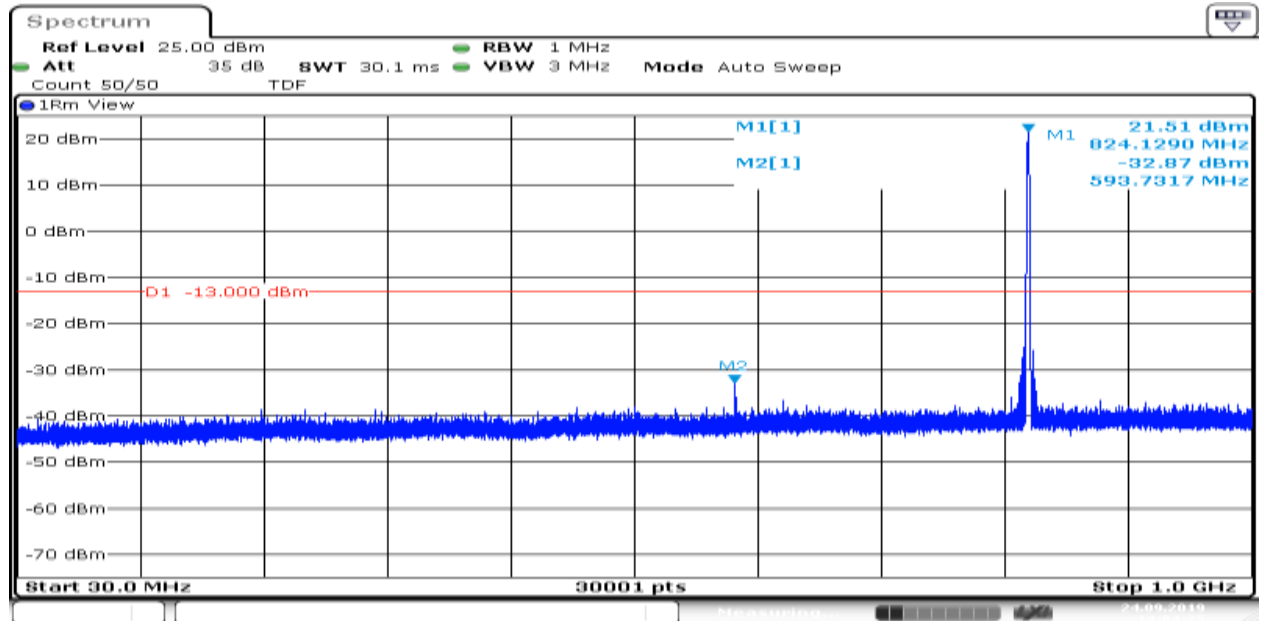
Appendix C.5: Conducted Spurious Emission for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	30	1000	30~1000MHz@-32.87dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	1000	5000	1000~5000MHz@-40.32dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	5000	12000	5000~12000MHz@-51.17dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	12@0	15kHz	12000	26500	12000~26500MHz@-45.72dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	30	1000	30~1000MHz@-36.79dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.1dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	5000	12000	5000~12000MHz@-51.02dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.6dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	30	1000	30~1000MHz@-36.01dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.17dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	5000	12000	5000~12000MHz@-51.01dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20401	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.7dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	5000	12000	5000~12000MHz@-50.99dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	1000	5000	1000~5000MHz@-40.18dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	12000	26500	12000~26500MHz@-45.77dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.24dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	5000	12000	5000~12000MHz@-51.06dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.83dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	30	1000	30~1000MHz@-36.6dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.01dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	5000	12000	5000~12000MHz@-50.97dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.77dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	12@0	15kHz	30	1000	30~1000MHz@-32.88dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	30	1000	30~1000MHz@-37.23dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	30	1000	30~1000MHz@-37.68dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	1000	5000	1000~5000MHz@-40.3dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	12000	26500	12000~26500MHz@-45.62dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	5000	12000	5000~12000MHz@-50.86dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	12000	26500	12000~26500MHz@-45.82dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	30	1000	30~1000MHz@-34.96dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	1000	5000	1000~5000MHz@-40.25dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@47	3.75kHz	5000	12000	5000~12000MHz@-50.96dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	5000	12000	5000~12000MHz@-51.03dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	12@0	15kHz	12000	26500	12000~26500MHz@-45.65dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	1000	5000	1000~5000MHz@-40.35dBm	-13	PASS
Band5	Stand-Alone	NaN	QPSK	20649	1@0	3.75kHz	30	1000	30~1000MHz@-36.58dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	12000	26500	12000~26500MHz@-45.87dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	5000	12000	5000~12000MHz@-50.61dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	30	1000	30~1000MHz@-33.21dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	5000	12000	5000~12000MHz@-50.94dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	1000	5000	1000~5000MHz@-40.04dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	12000	26500	12000~26500MHz@-45.48dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@0	15kHz	30	1000	30~1000MHz@-34.21dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20401	1@11	15kHz	1000	5000	1000~5000MHz@-40.22dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	12000	26500	12000~26500MHz@-45.79dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	5000	12000	5000~12000MHz@-51.01dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	1000	5000	1000~5000MHz@-40.24dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@11	15kHz	30	1000	30~1000MHz@-34.08dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	12000	26500	12000~26500MHz@-45.86dBm	-13	PASS
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Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	1000	5000	1000~5000MHz@-40.08dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20525	1@0	15kHz	30	1000	30~1000MHz@-34.82dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	12000	26500	12000~26500MHz@-45.63dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	30	1000	30~1000MHz@-33.48dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	1000	5000	1000~5000MHz@-40.11dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	5000	12000	5000~12000MHz@-51.08dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@0	15kHz	12000	26500	12000~26500MHz@-45.75dBm	-13	PASS
Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	30	1000	30~1000MHz@-35.23dBm	-13	PASS

Band5	Stand-Alone	NaN	BPSK	20649	1@11	15kHz	5000	12000	5000-12000MHz@-51.13dBm	-13	PASS
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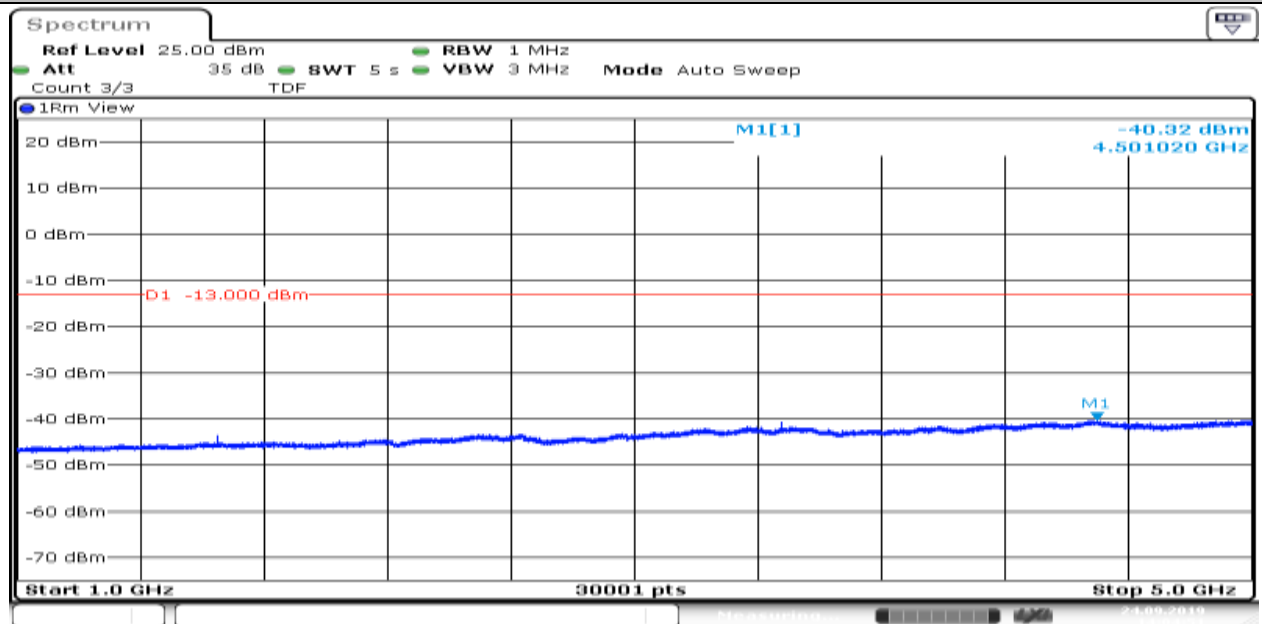
Test Graphs

Band5_Stand-Alone_NaN_QPSK_20401_12@0_15kHz_30_1000_30-1000MHz@-32.87dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20401-12@0@15kHz-QPSK-NTNV-2019924125619.Gif



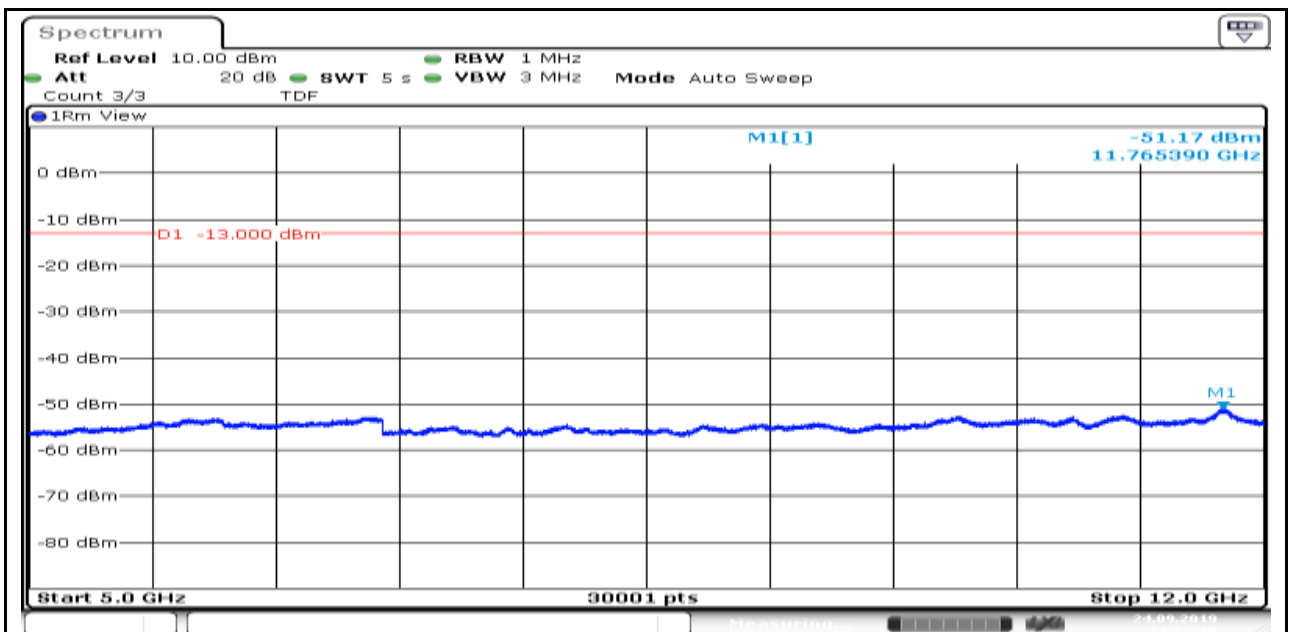
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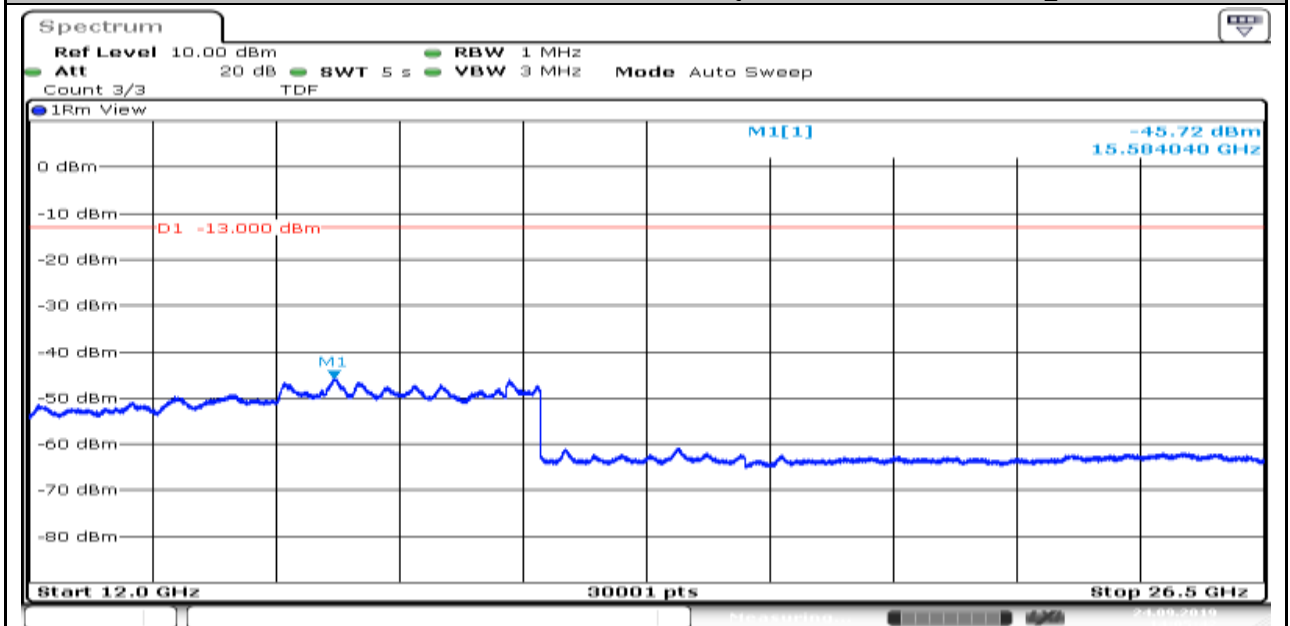


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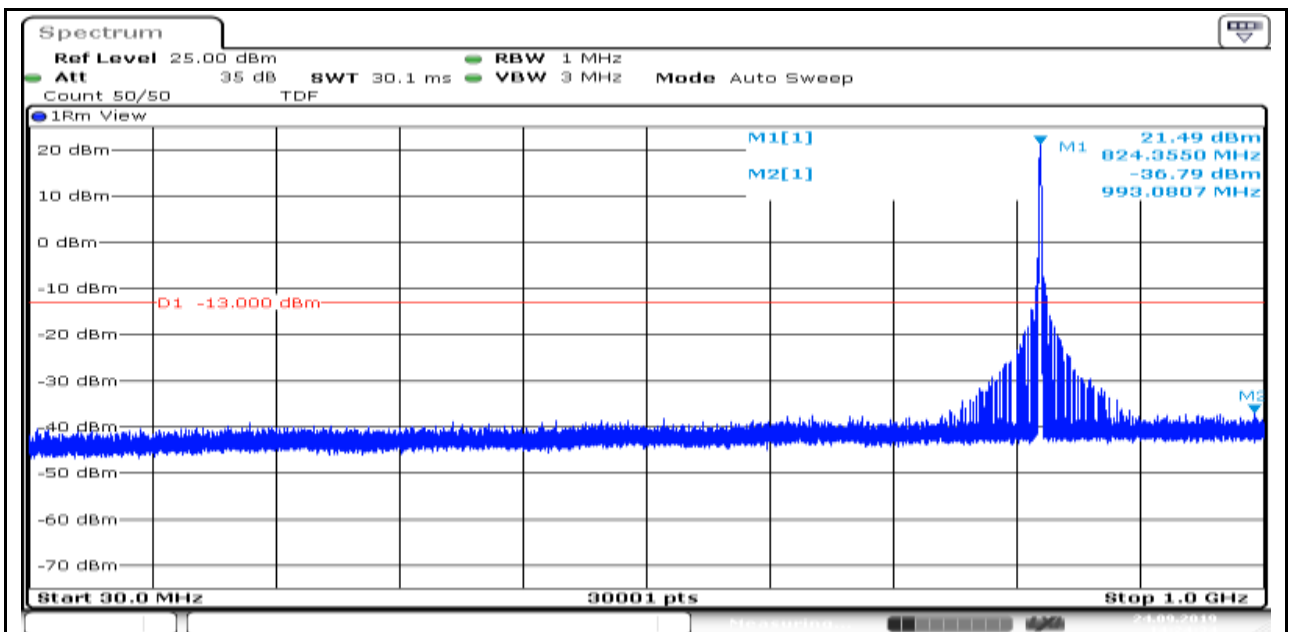
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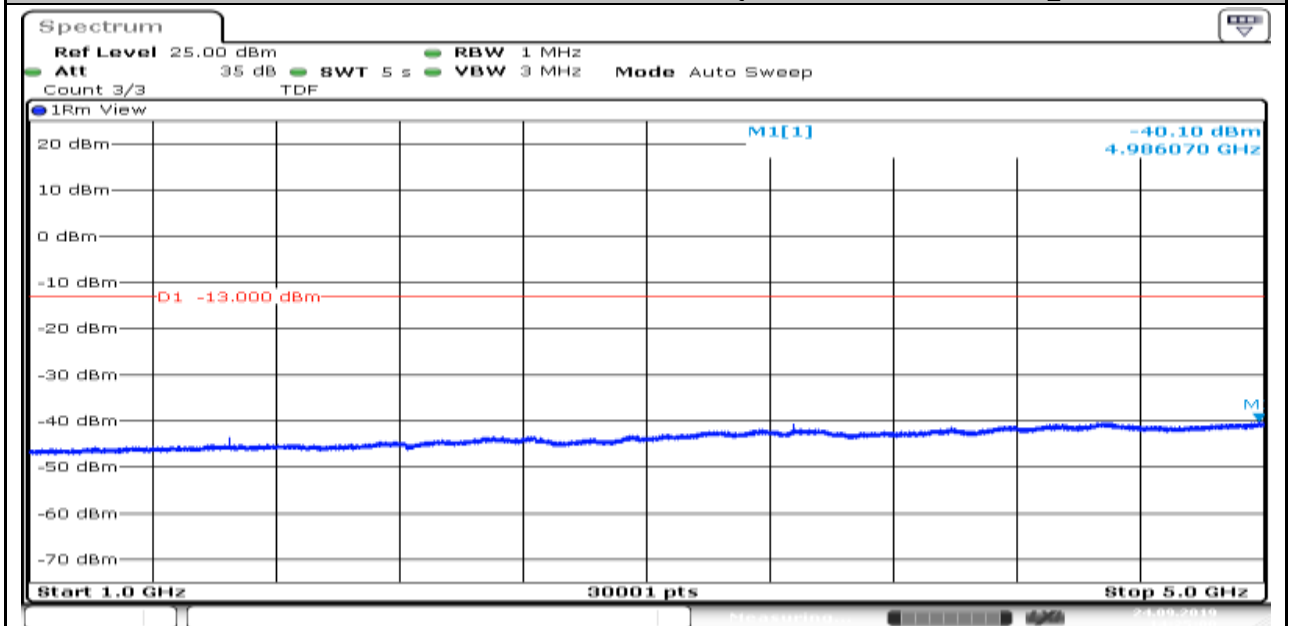
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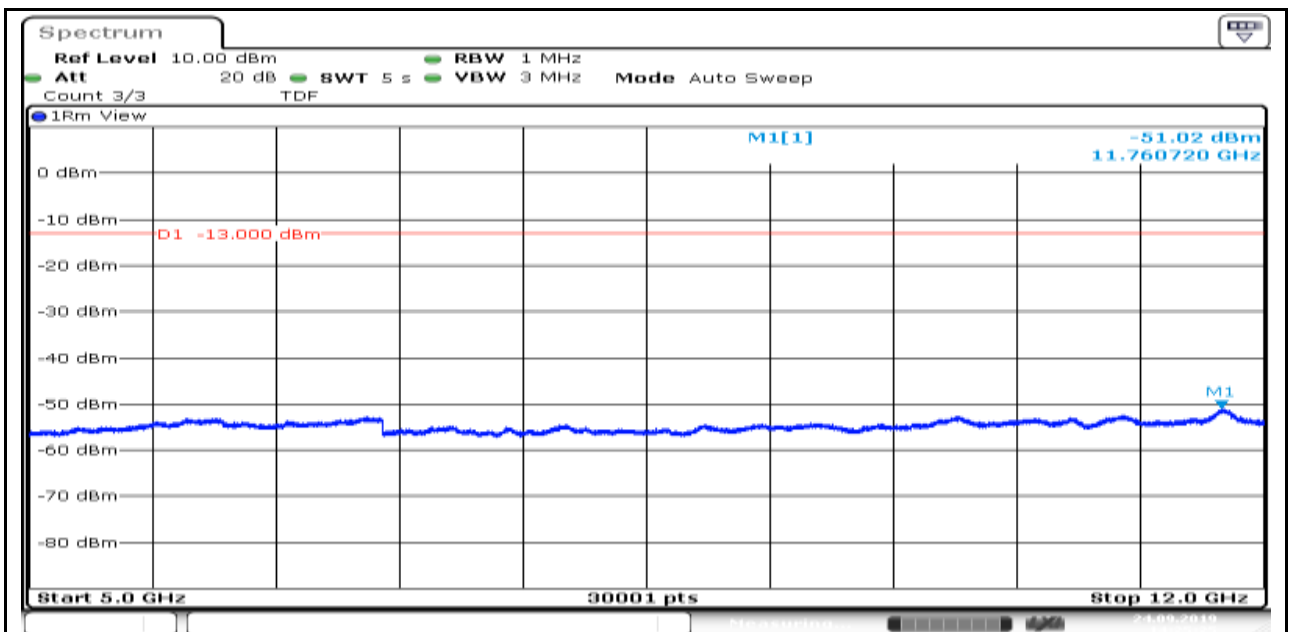
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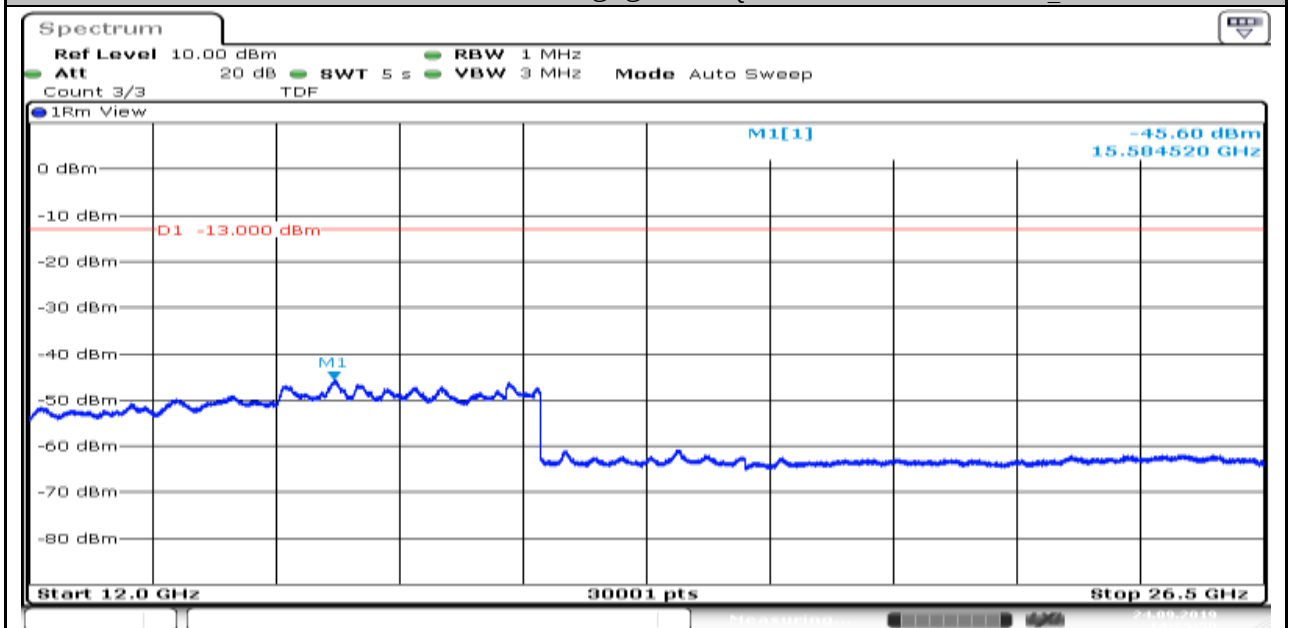
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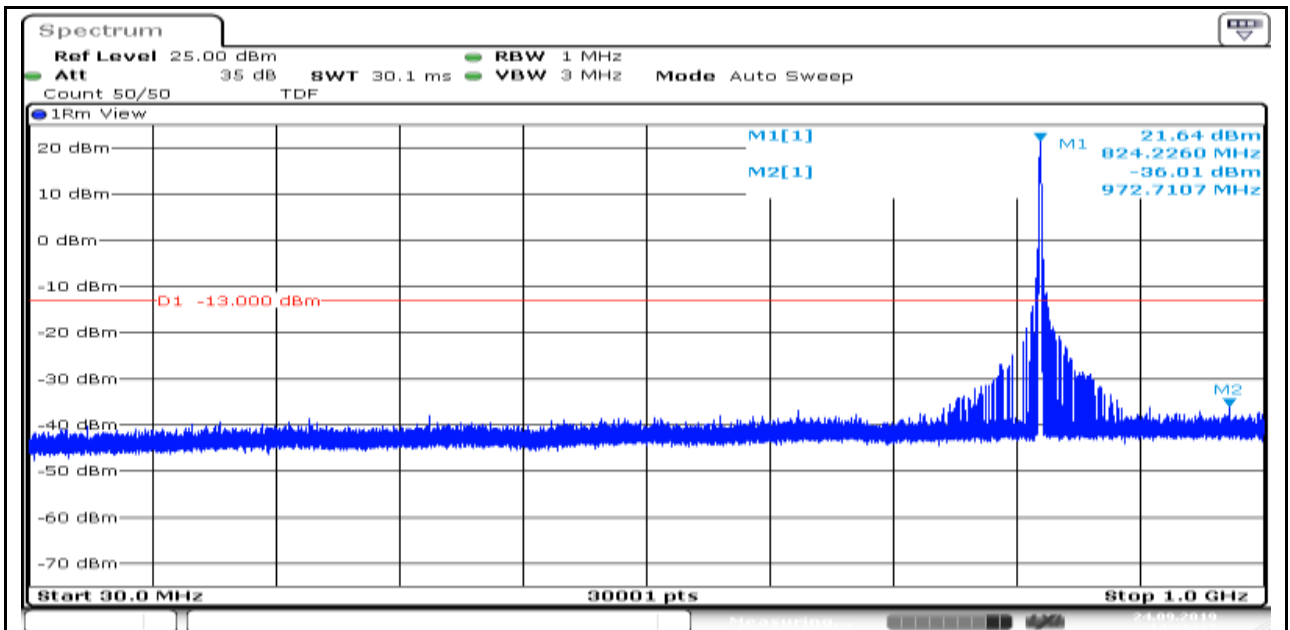
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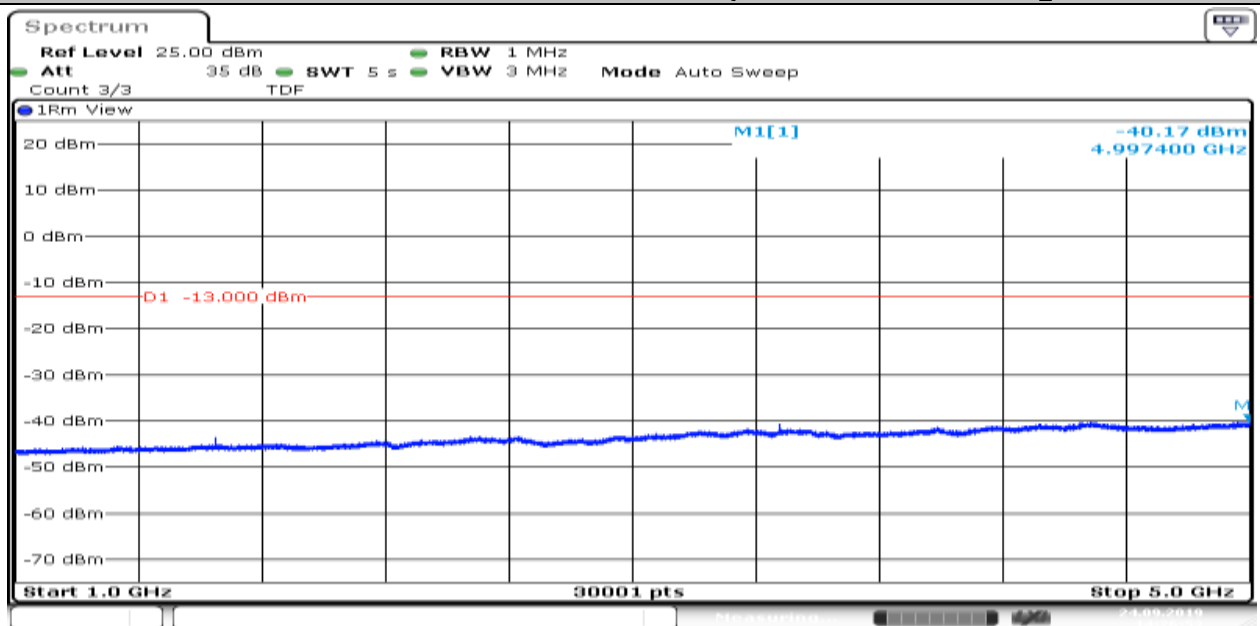
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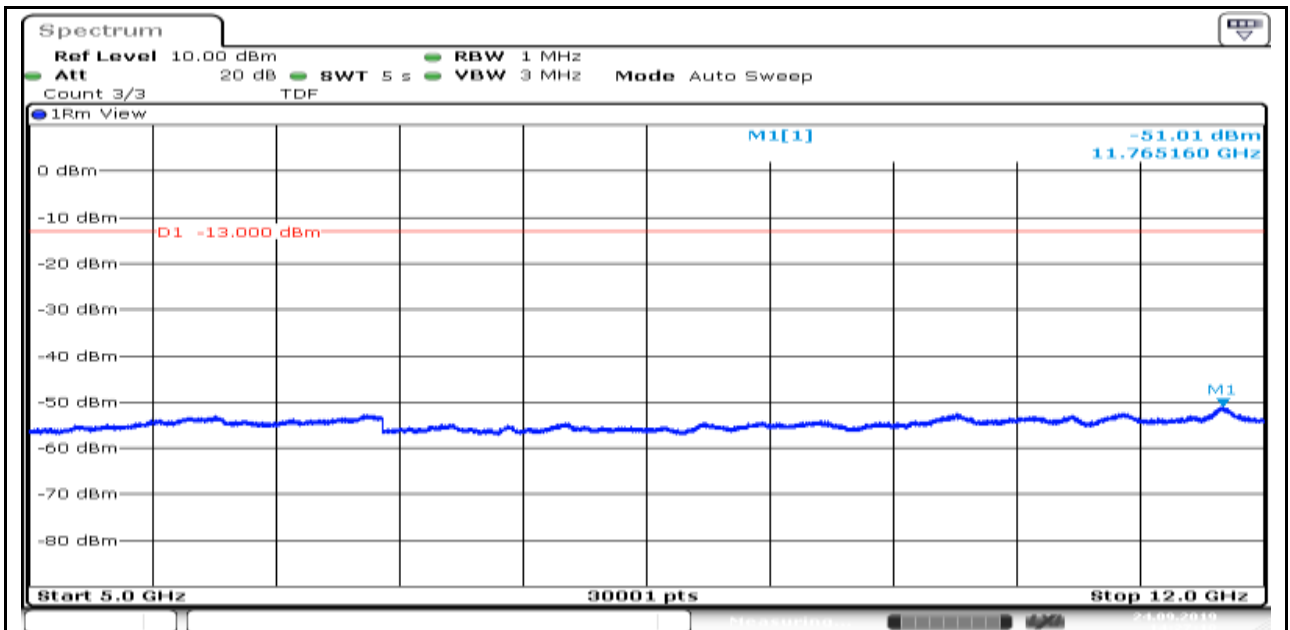
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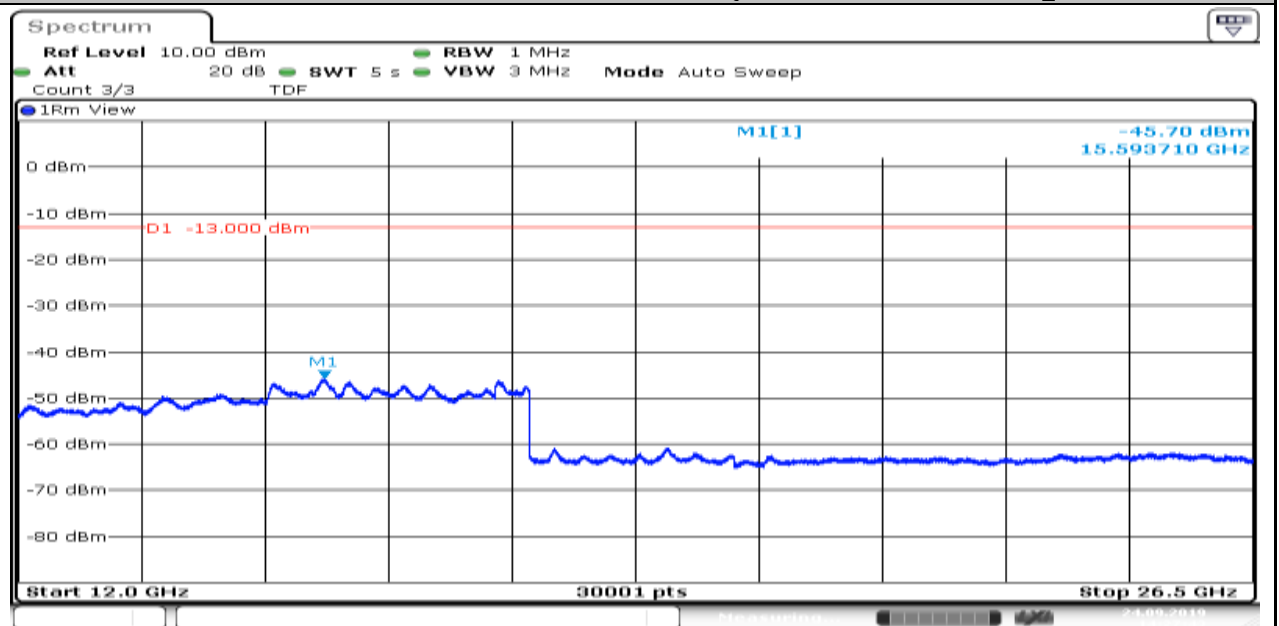
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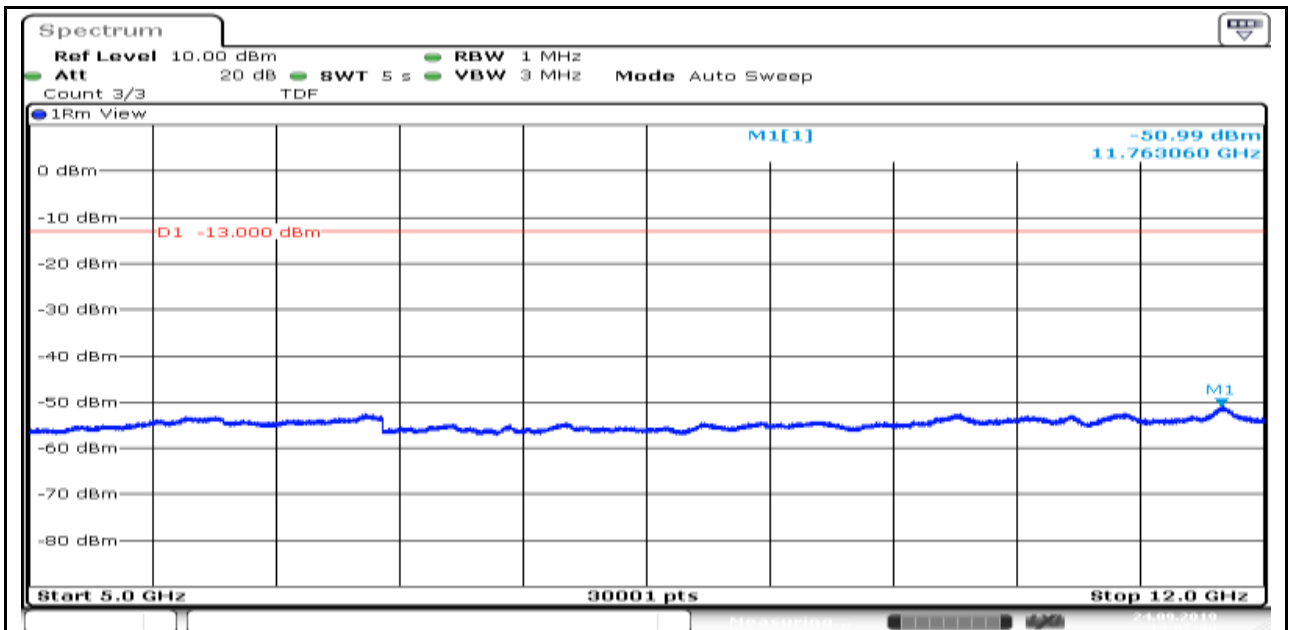
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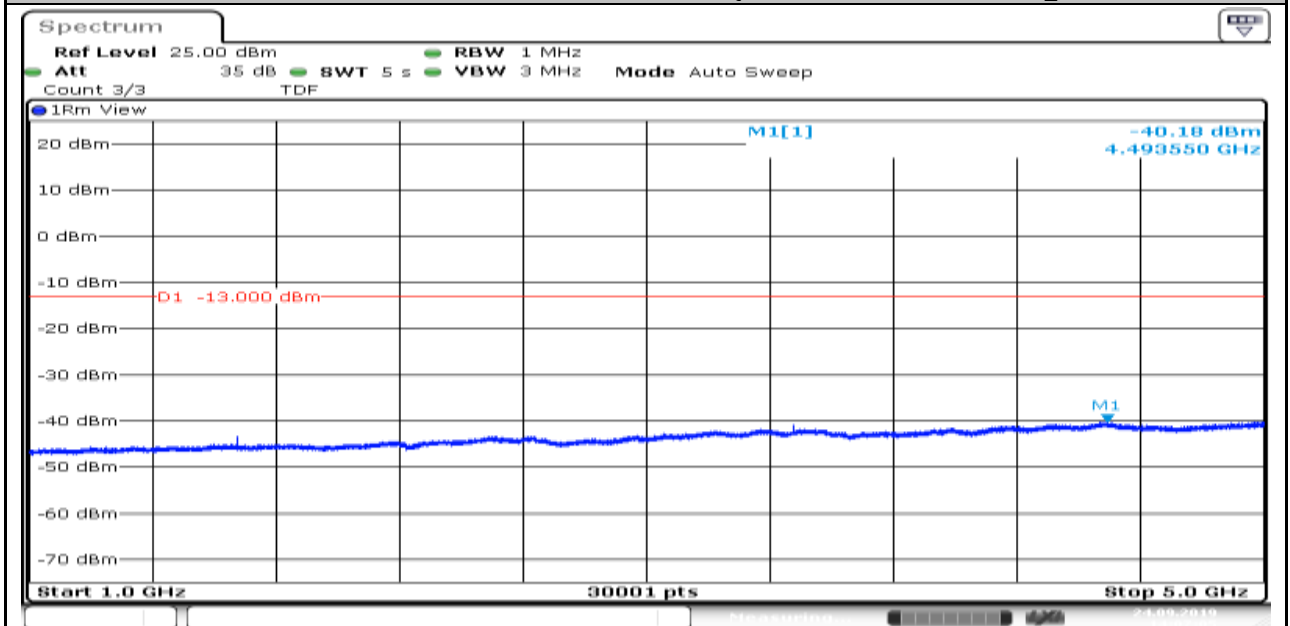
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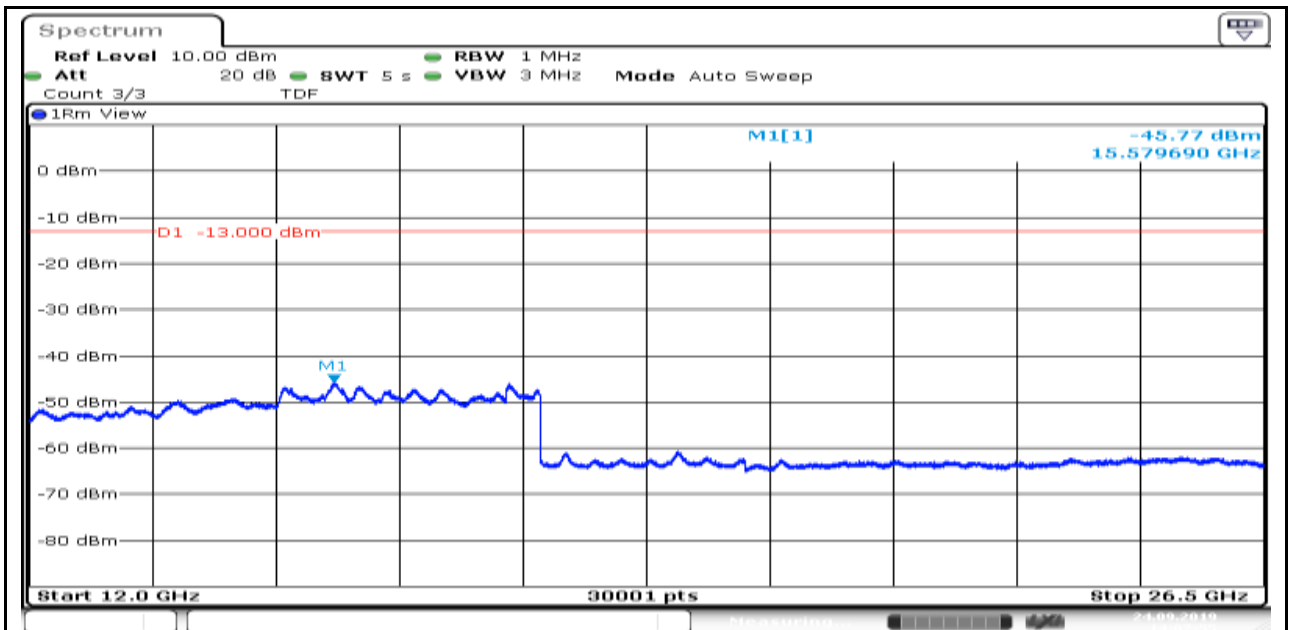
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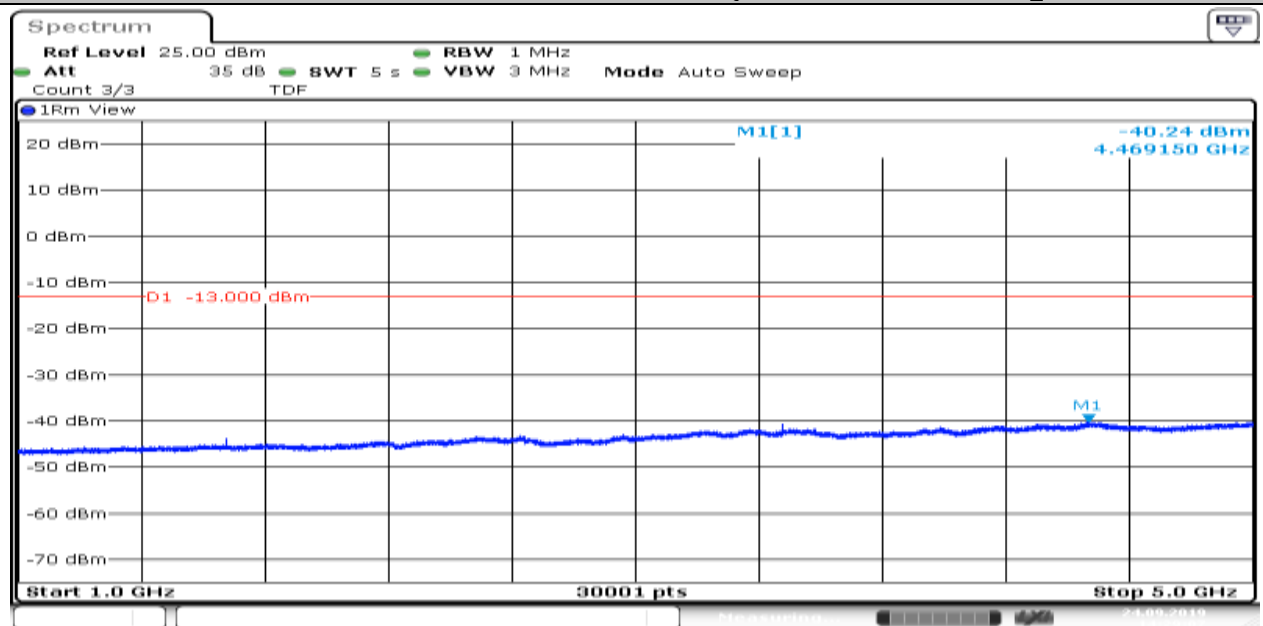
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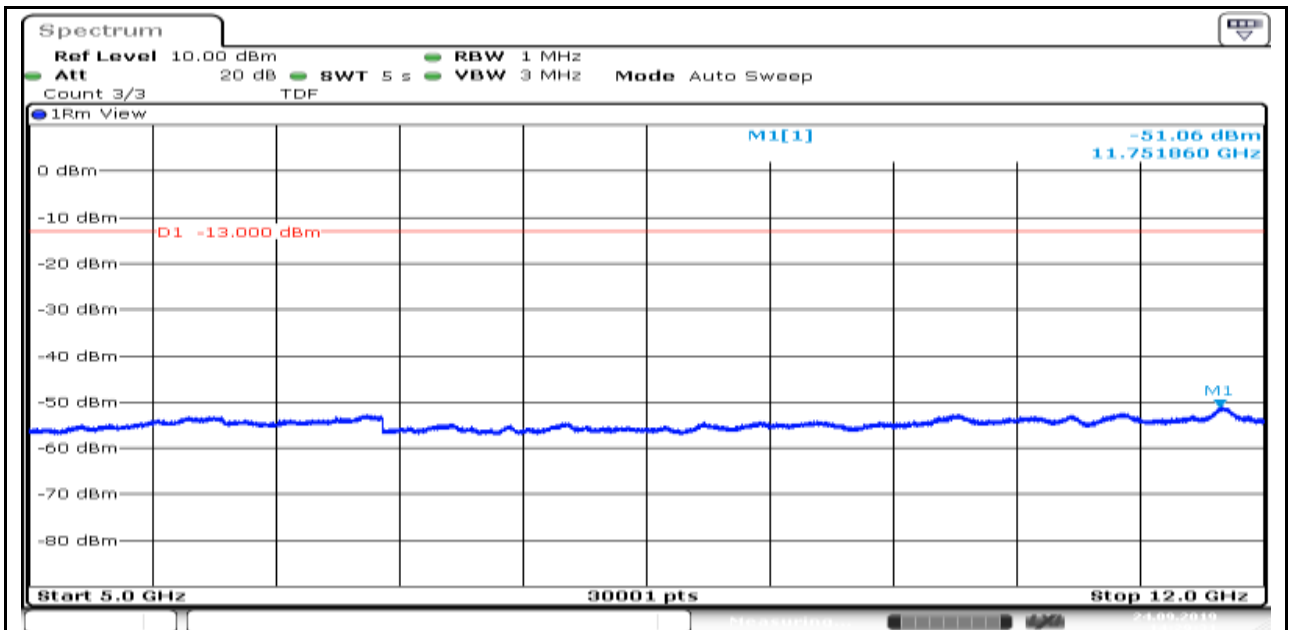
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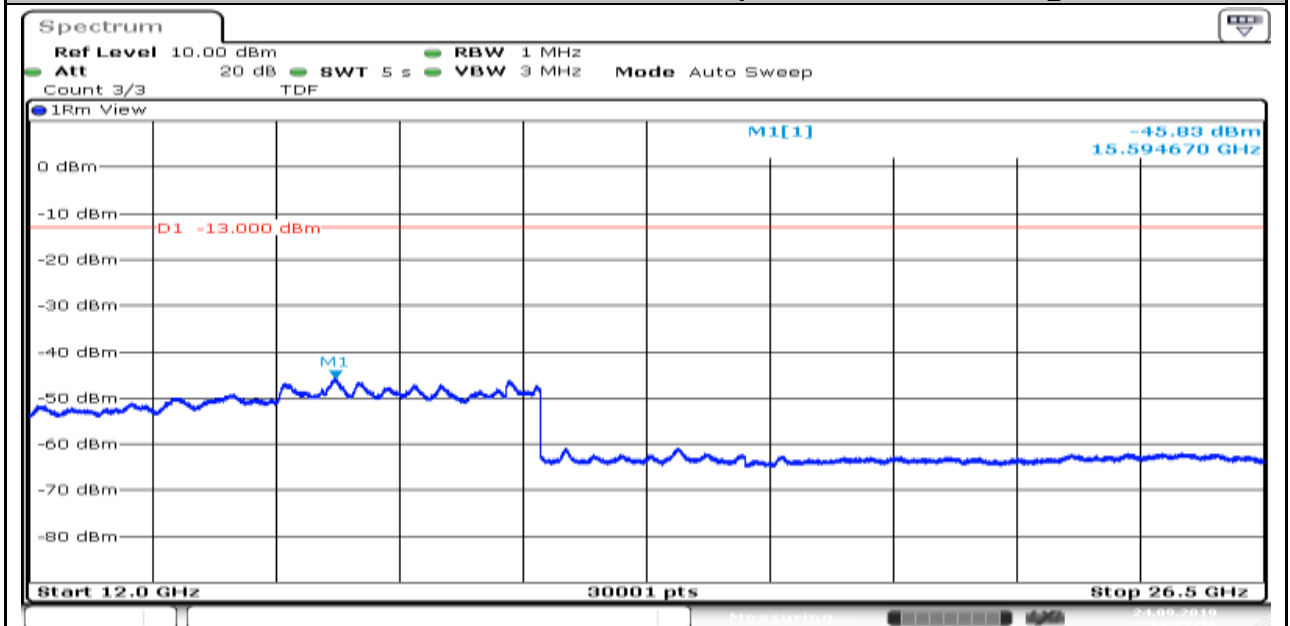
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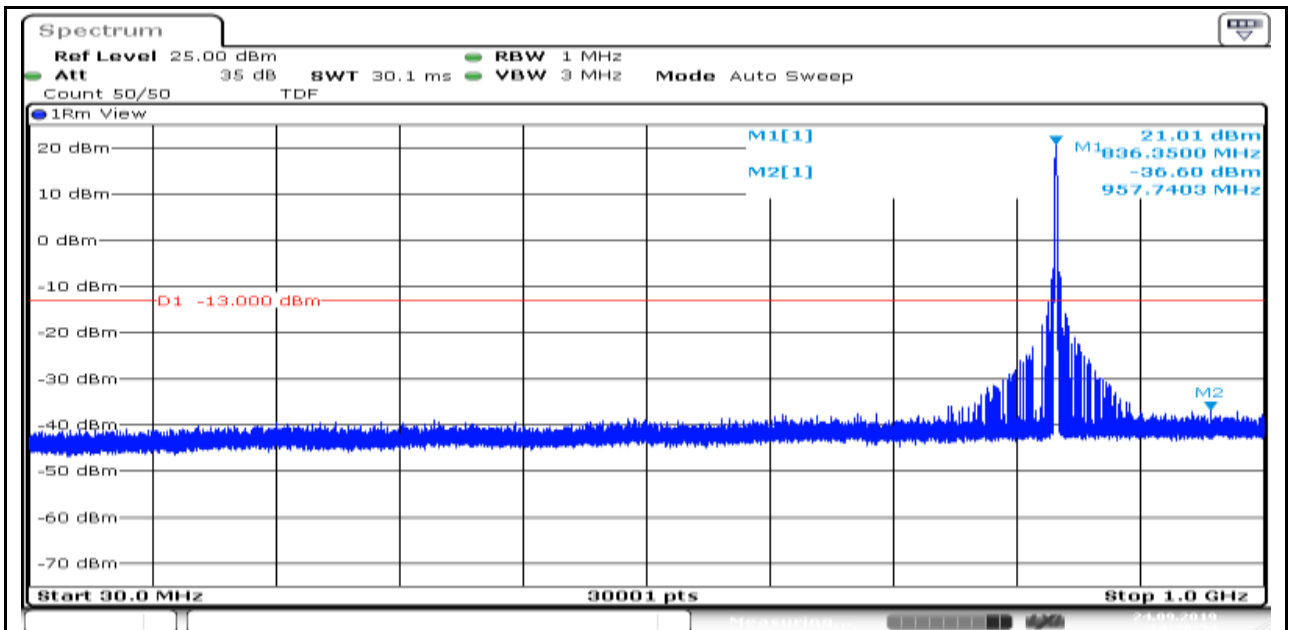
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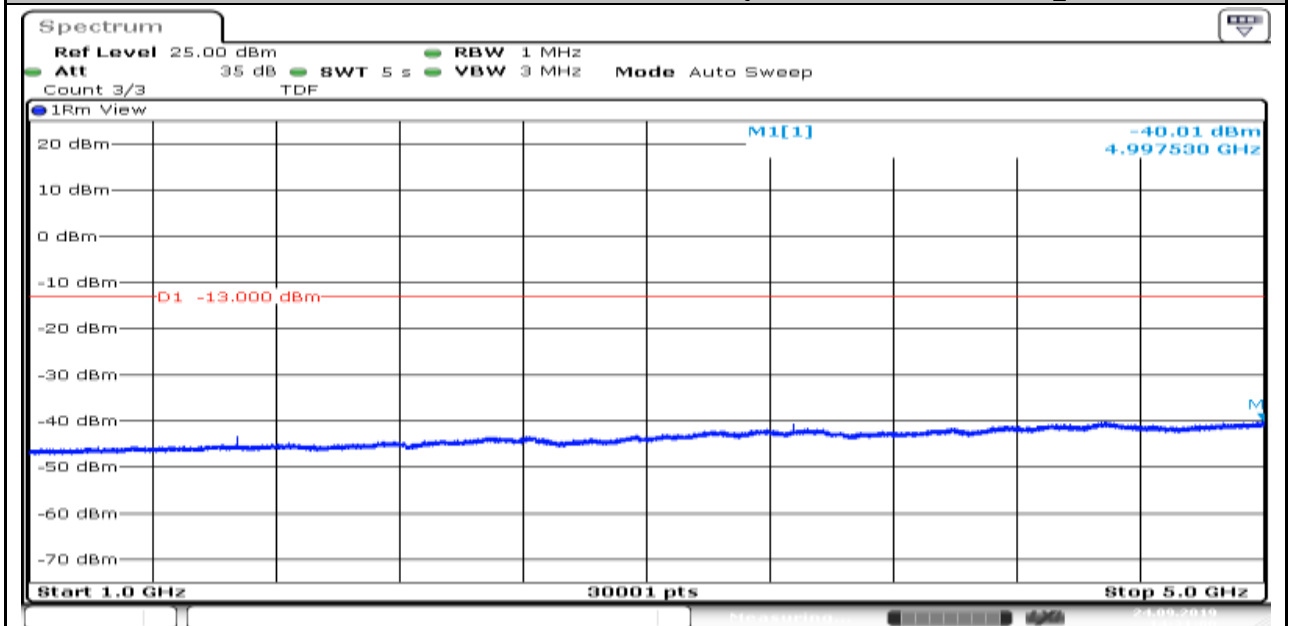
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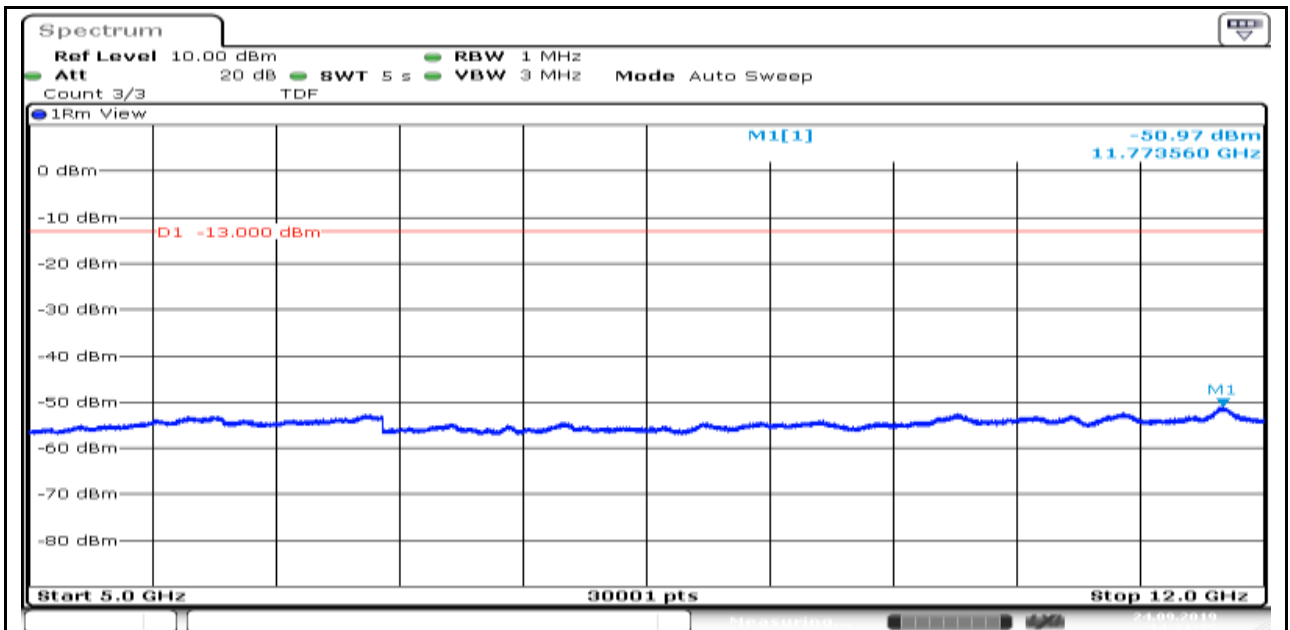
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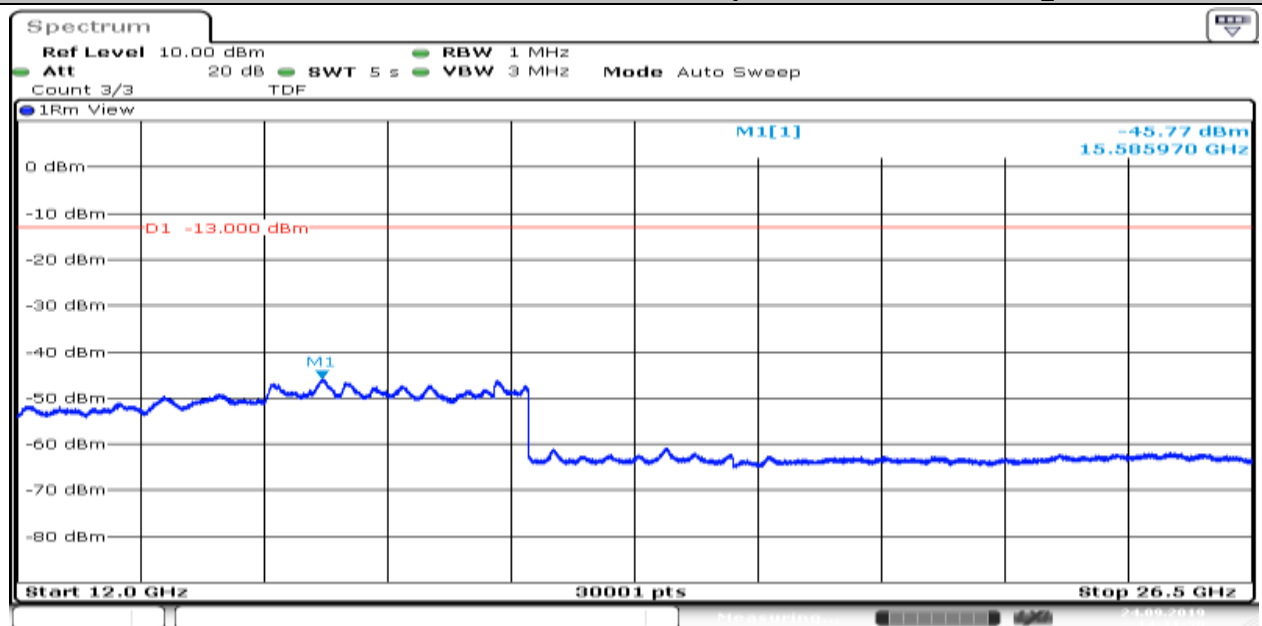
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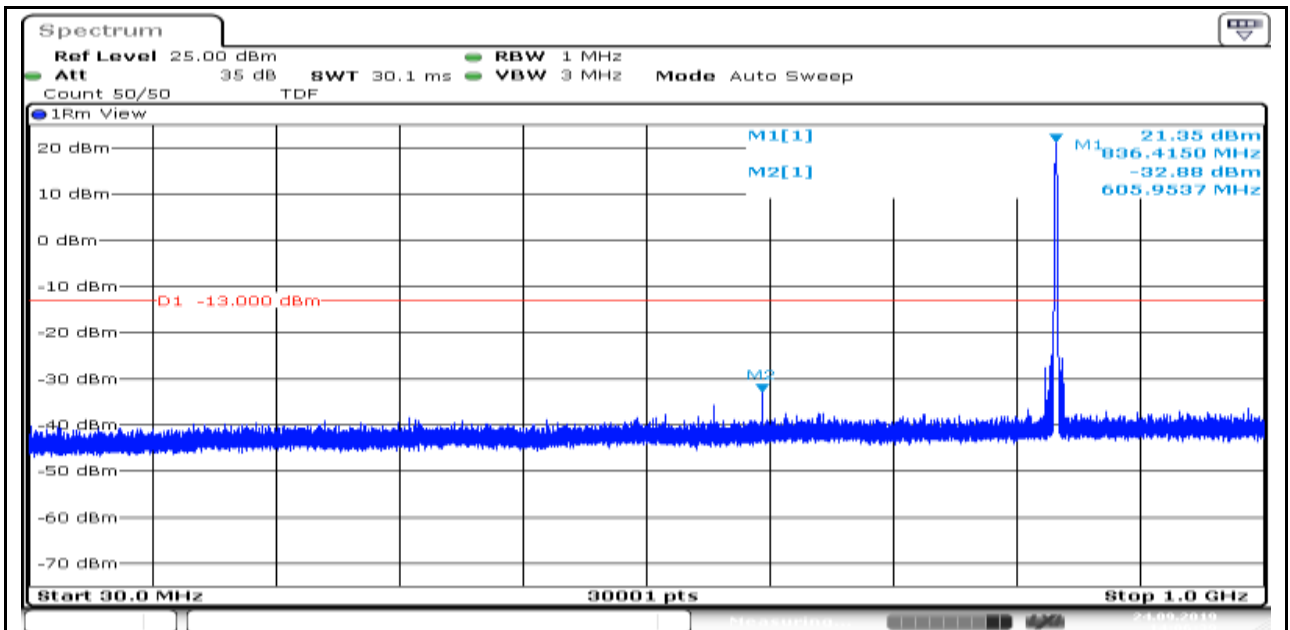
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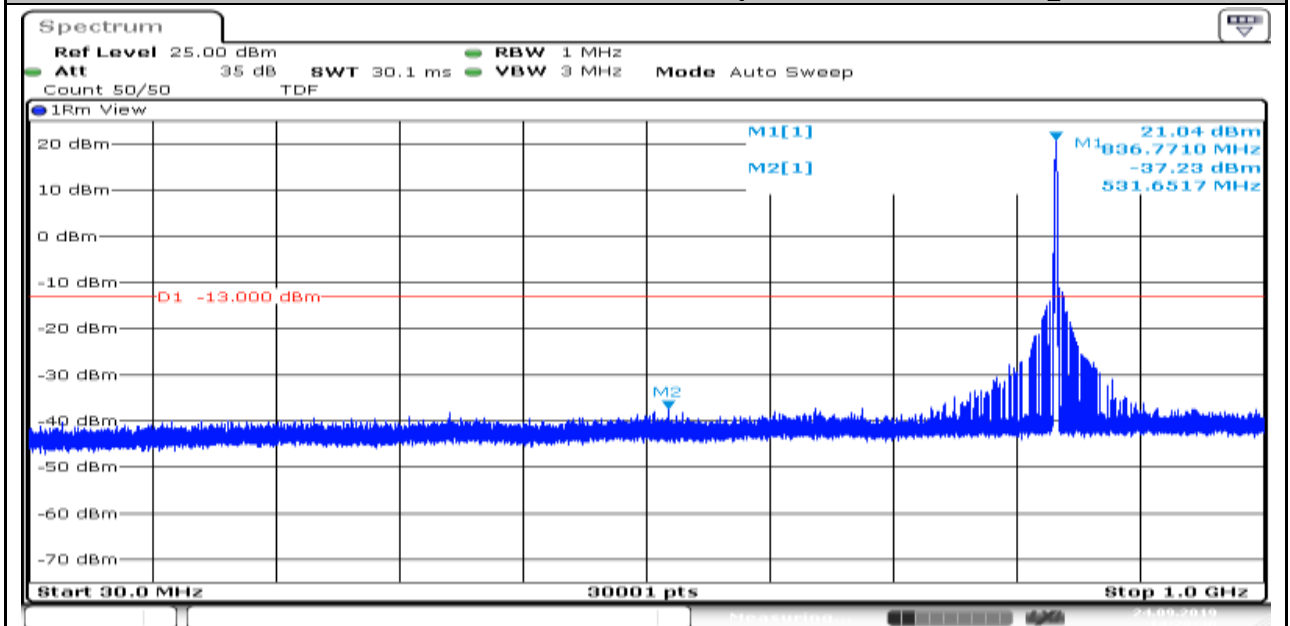
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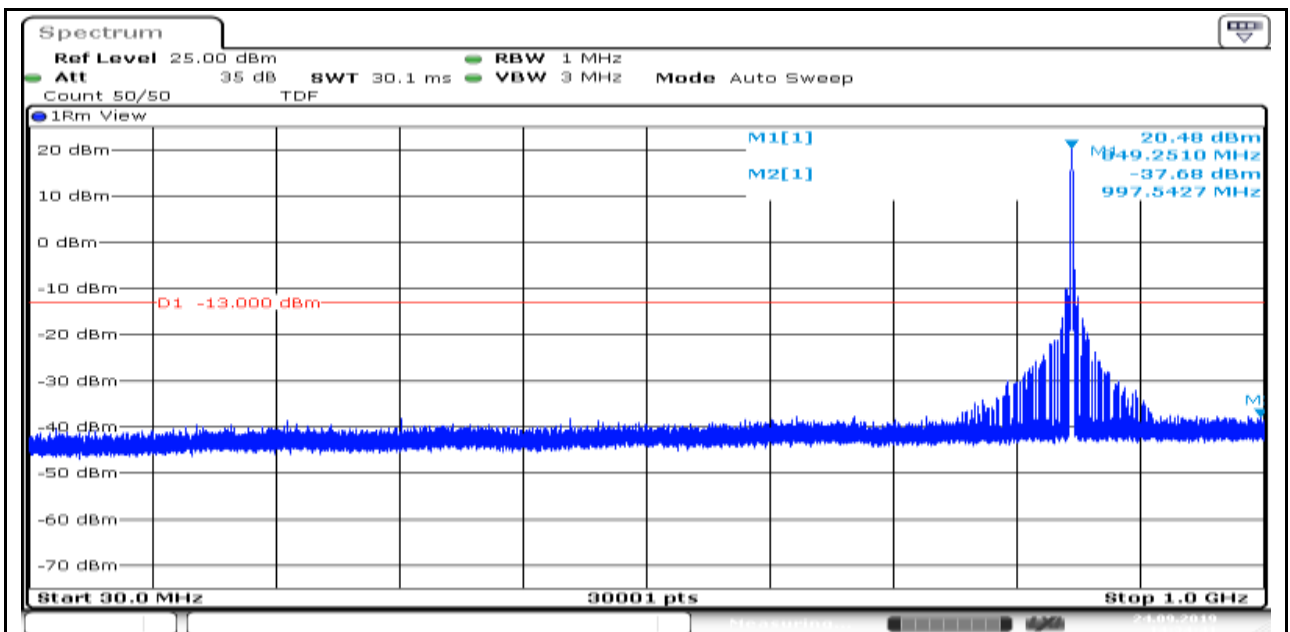
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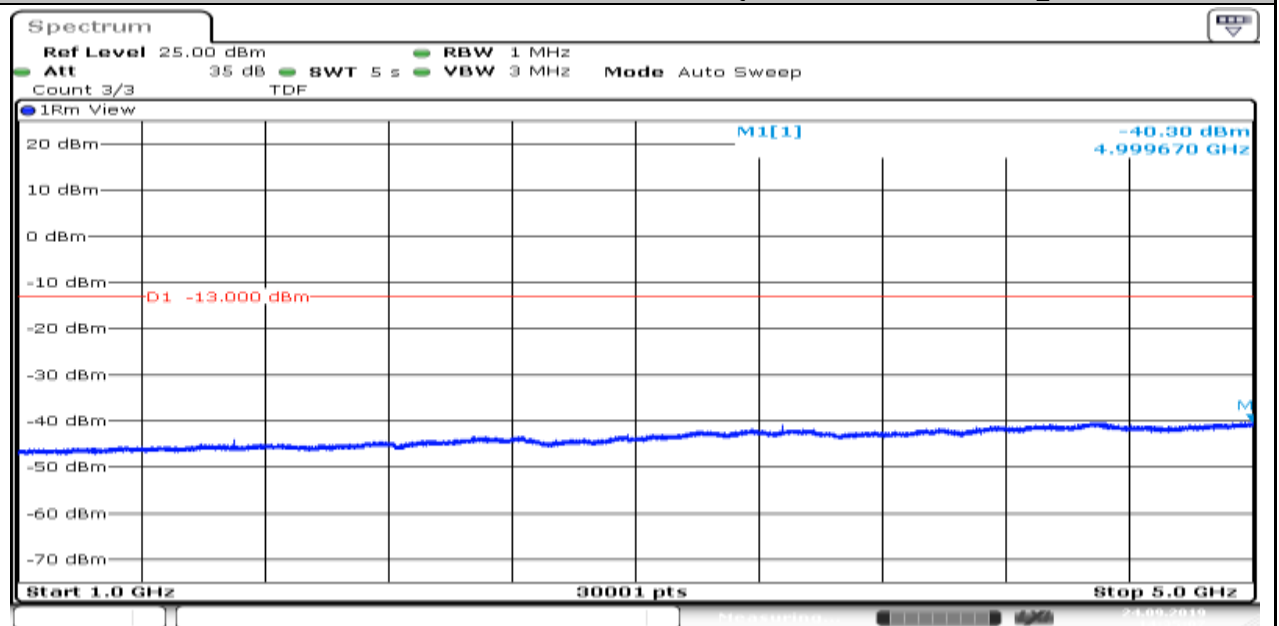
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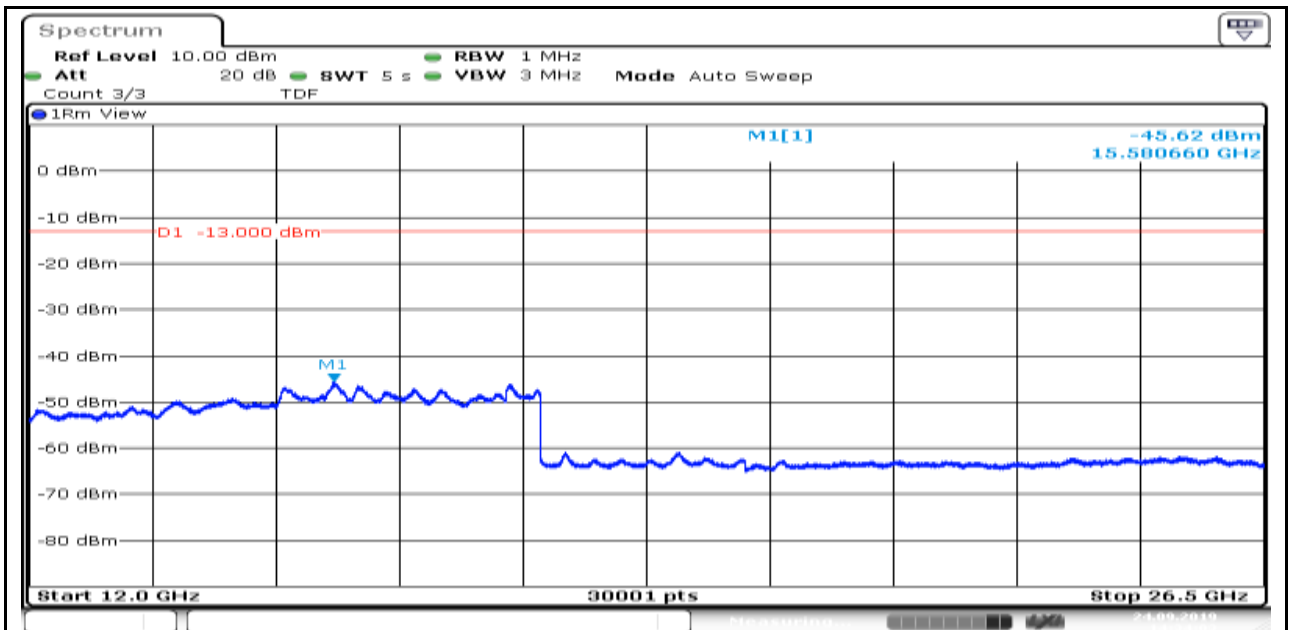
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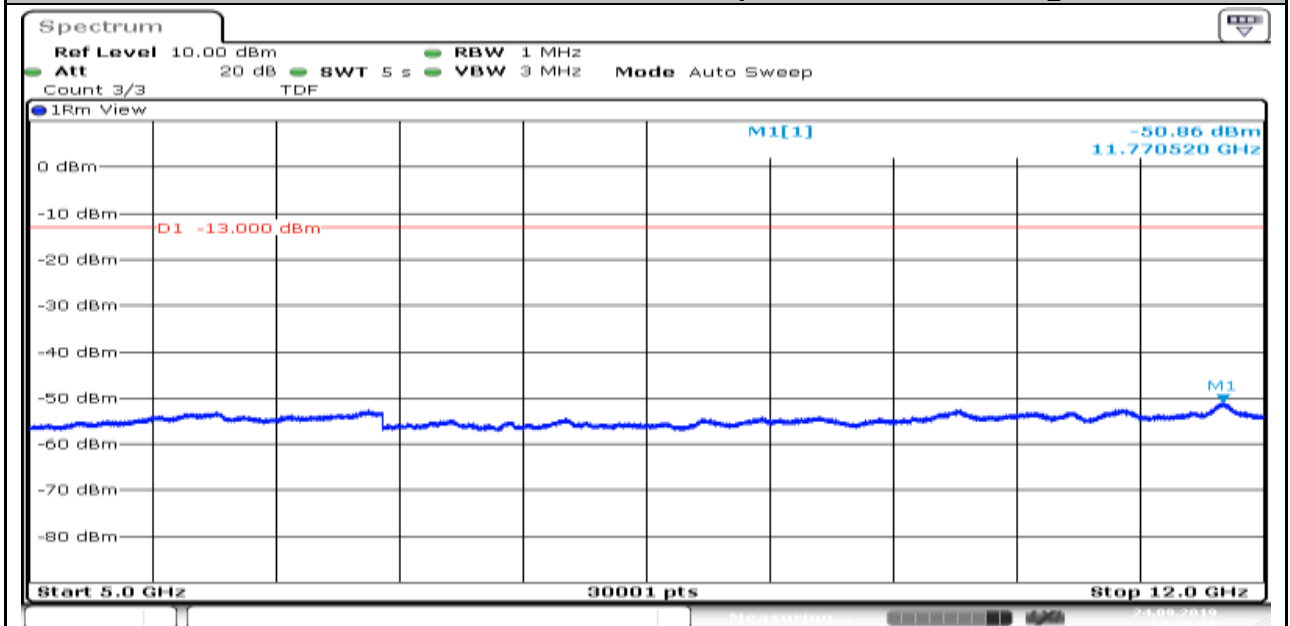
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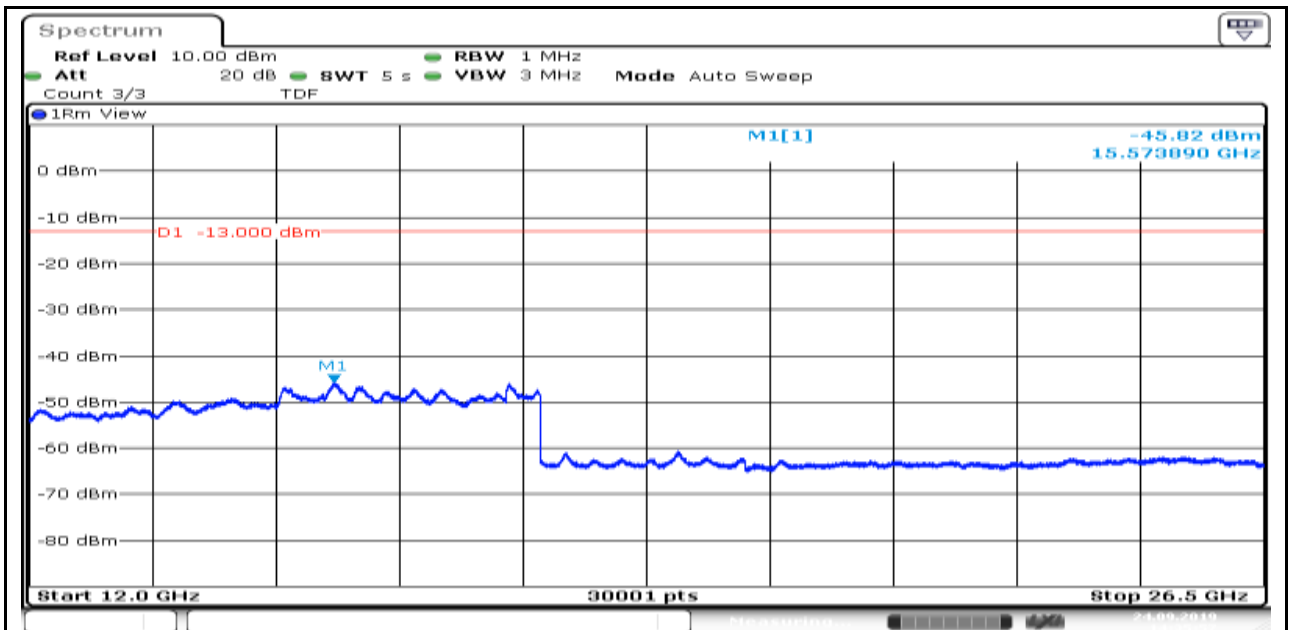
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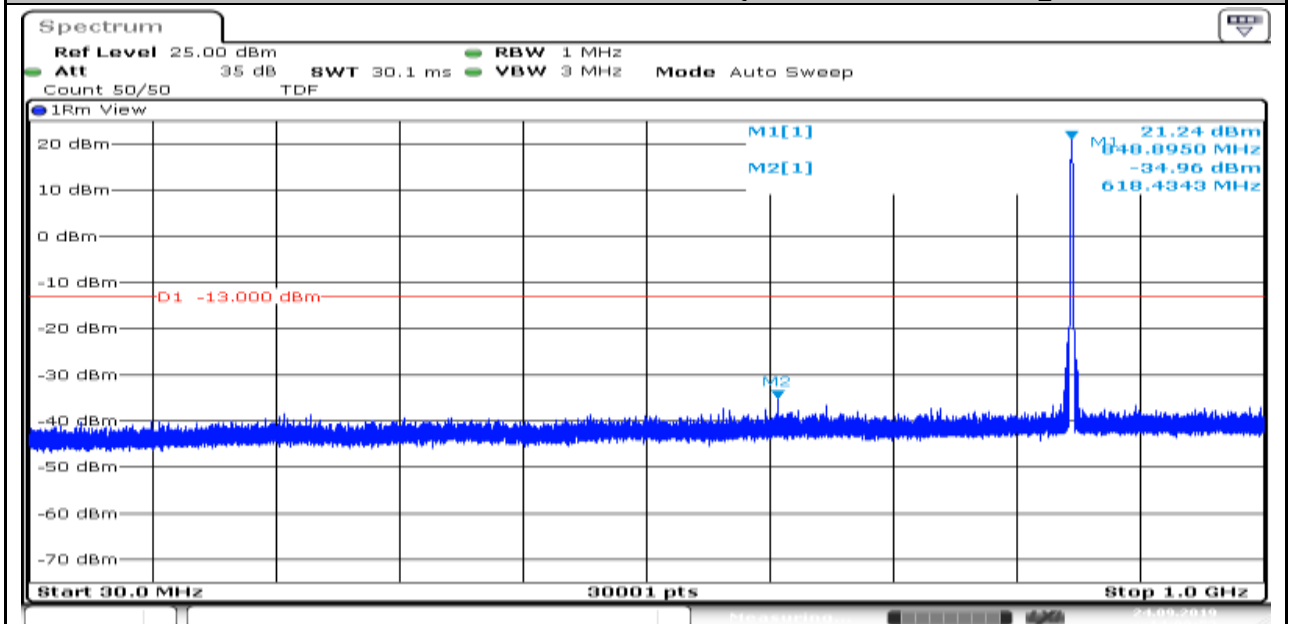


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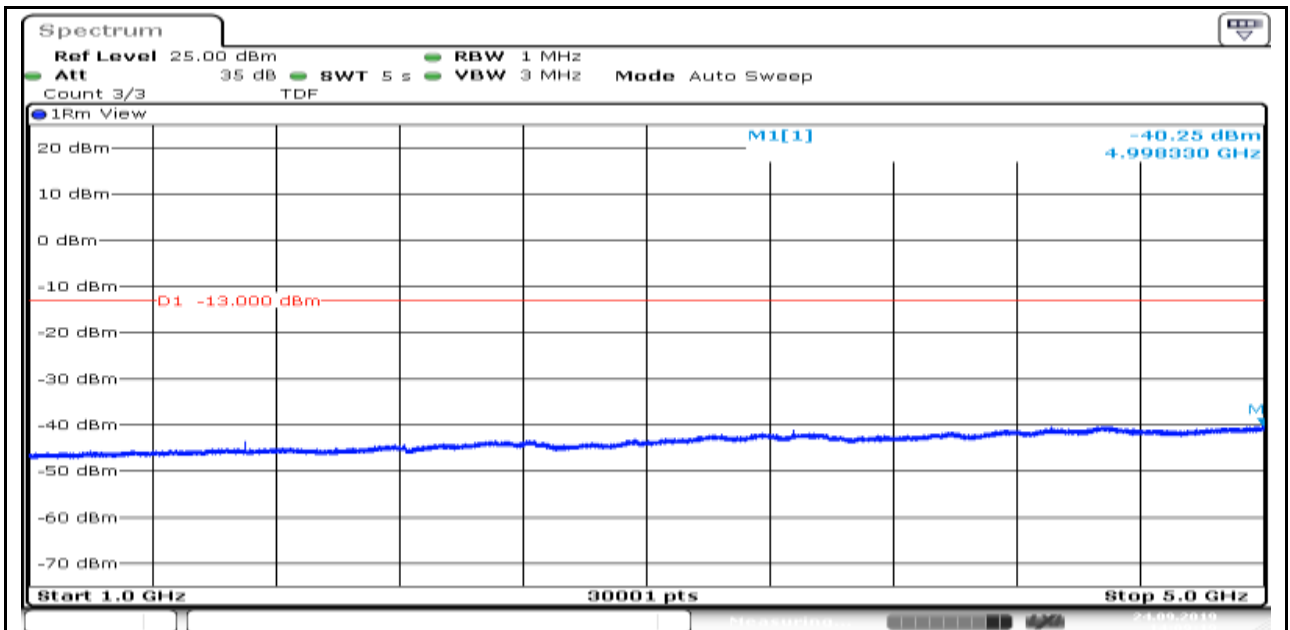
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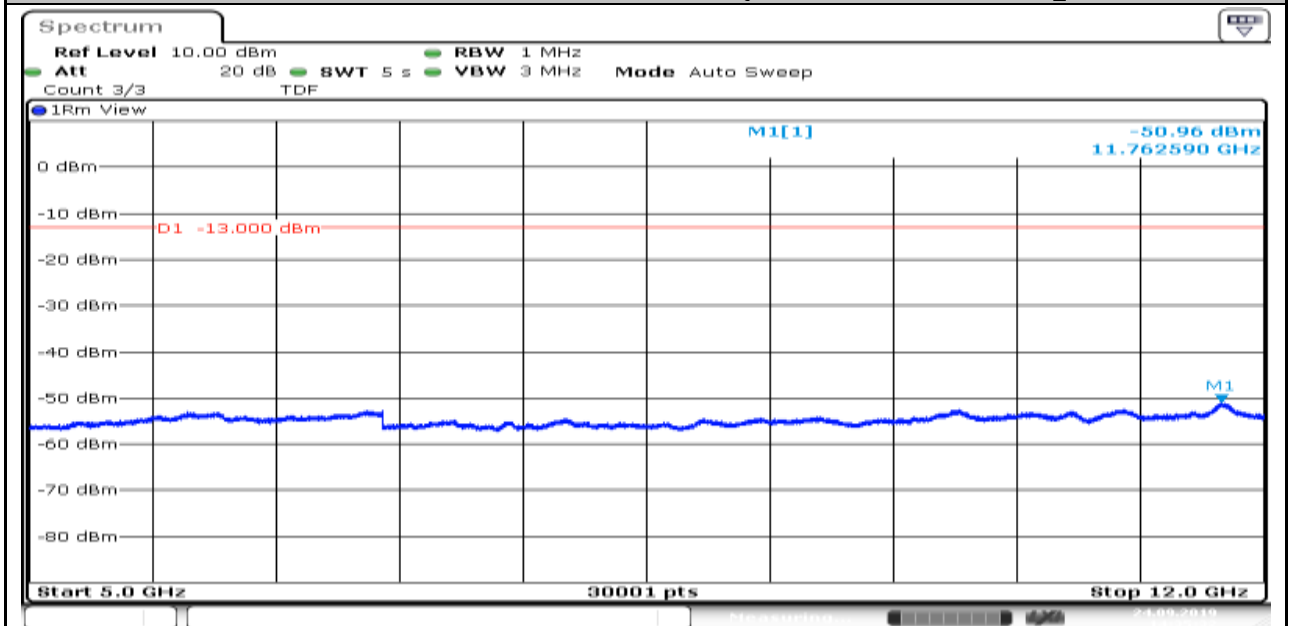


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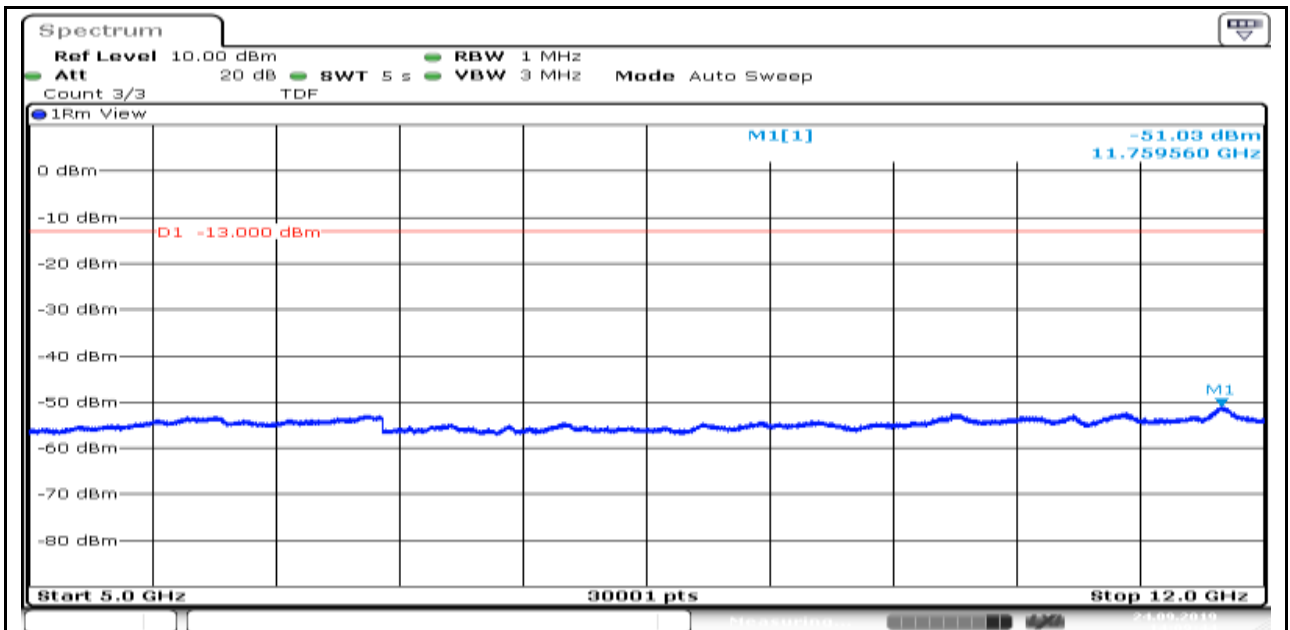
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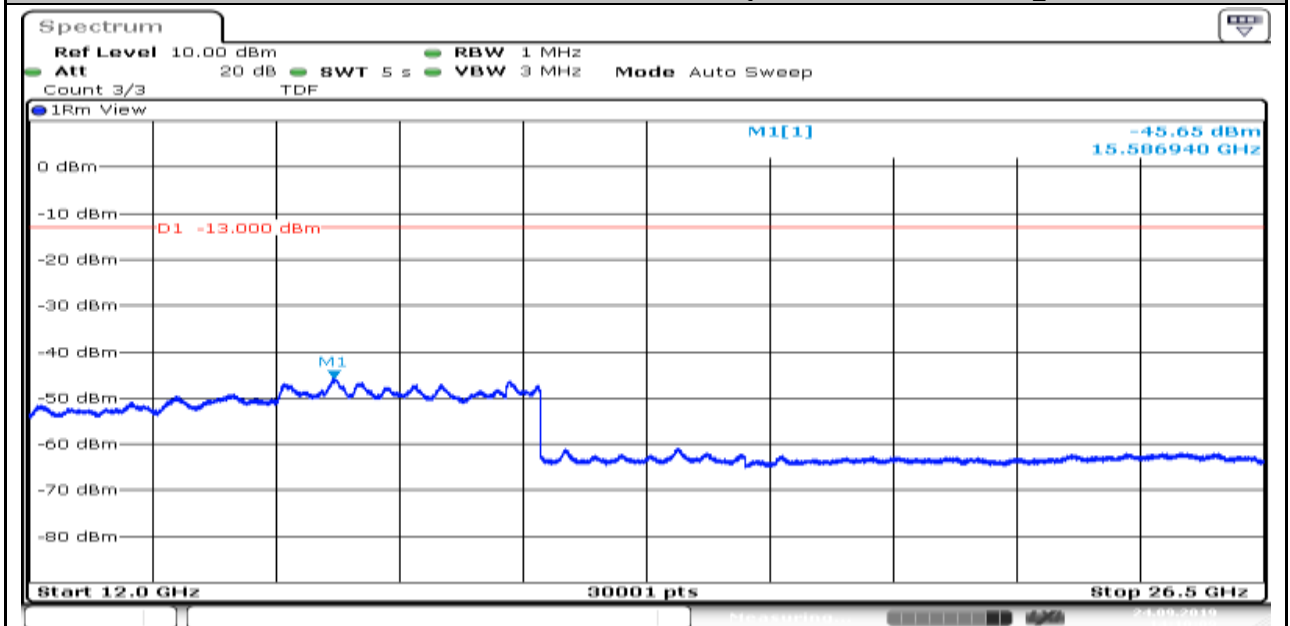
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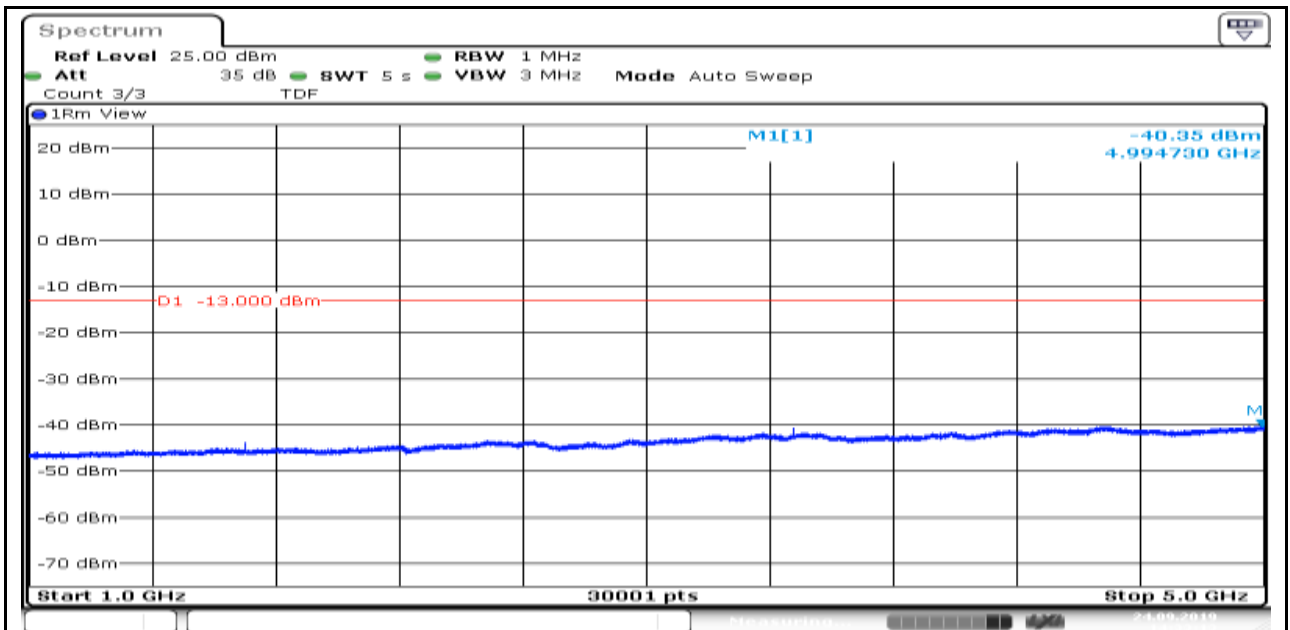
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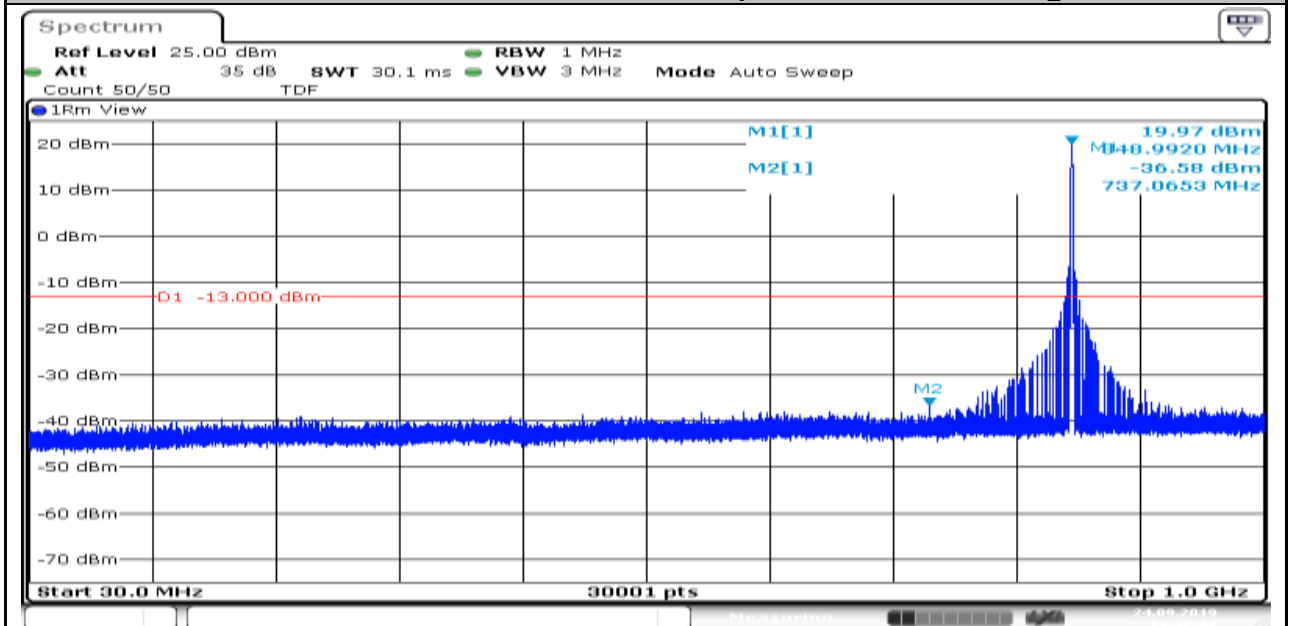
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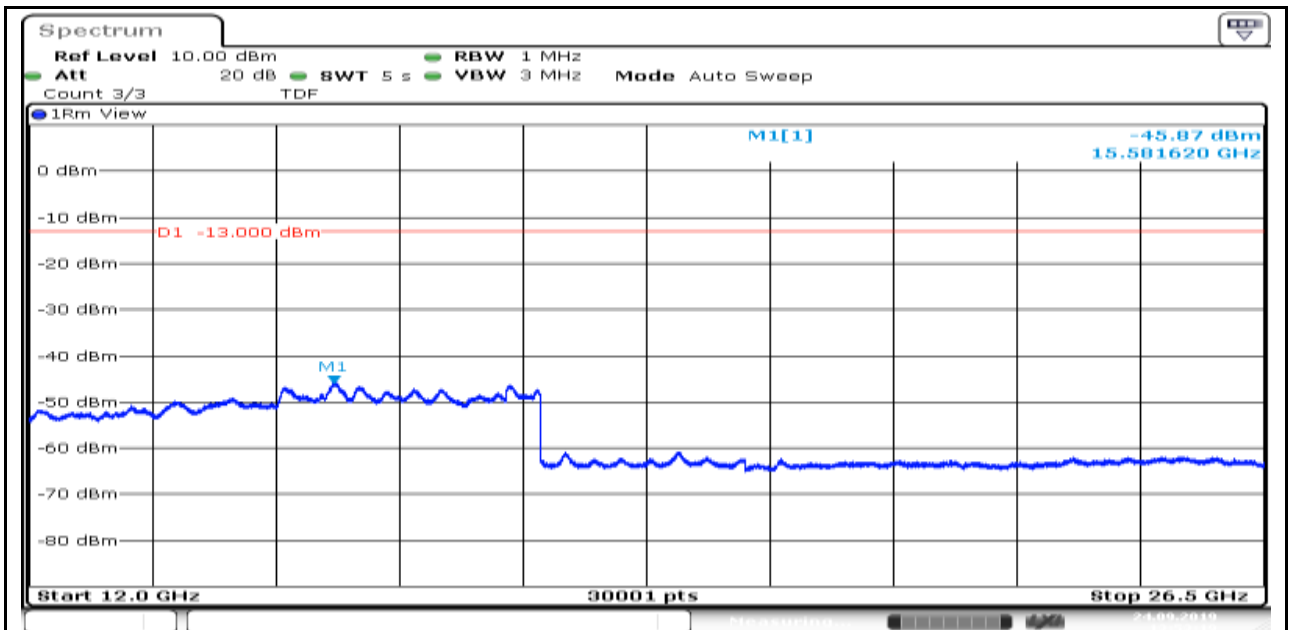
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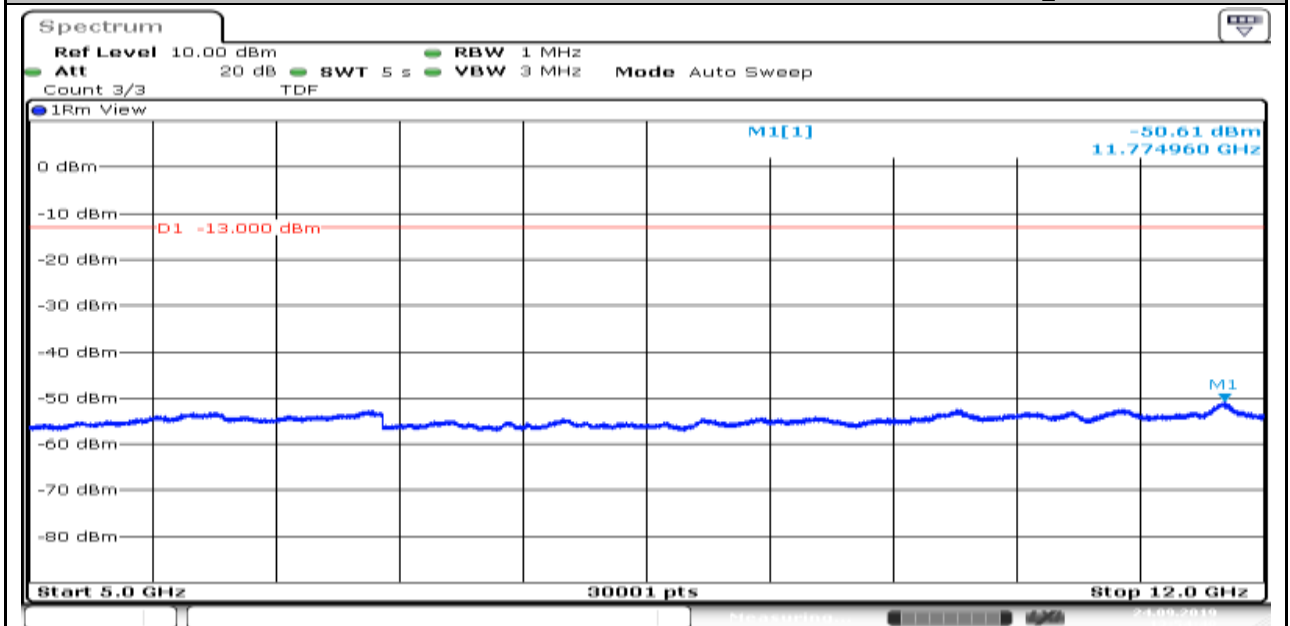
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IOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category
NB-Band5-Stand-Alone-NaN-20649-1@0@3.75kHz-QPSK-NTNV-2019924132440.Gif_



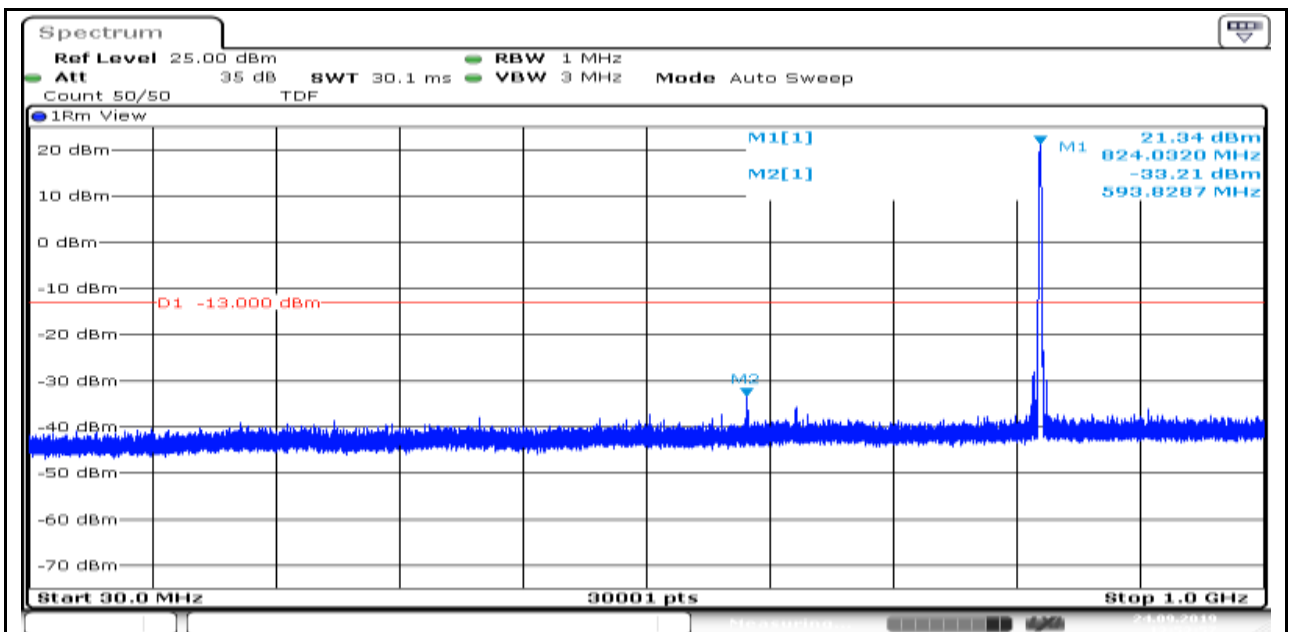
Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_12000_26500_12000~26500MHz@-45.87dBm_-13_PASS_FCC_ME910G1\
FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category
NB-Band5-Stand-Alone-NaN-20401-1@0@15kHz-BPSK-NTNV-2019924124513.Gif_



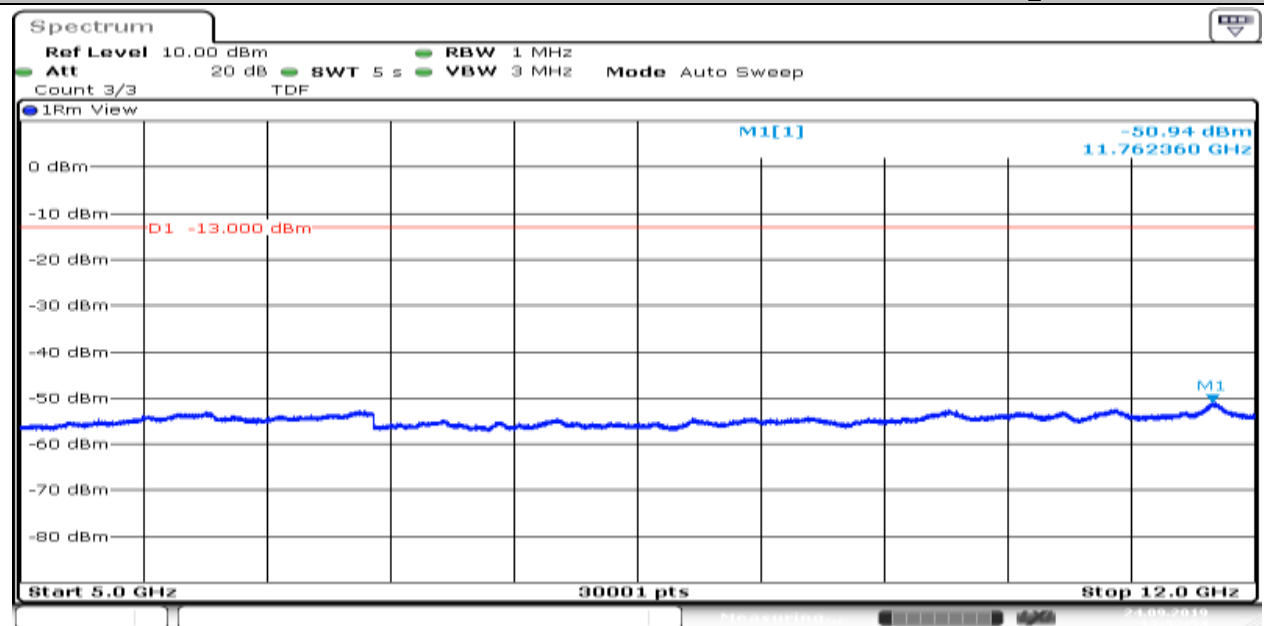
Band5_Stand-Alone_NaN_BPSK_20401_1@11_15kHz_5000_12000_5000-12000MHz@-50.61dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20401-1@11@15kHz-BPSK-NTNV-2019924124641.Gif_



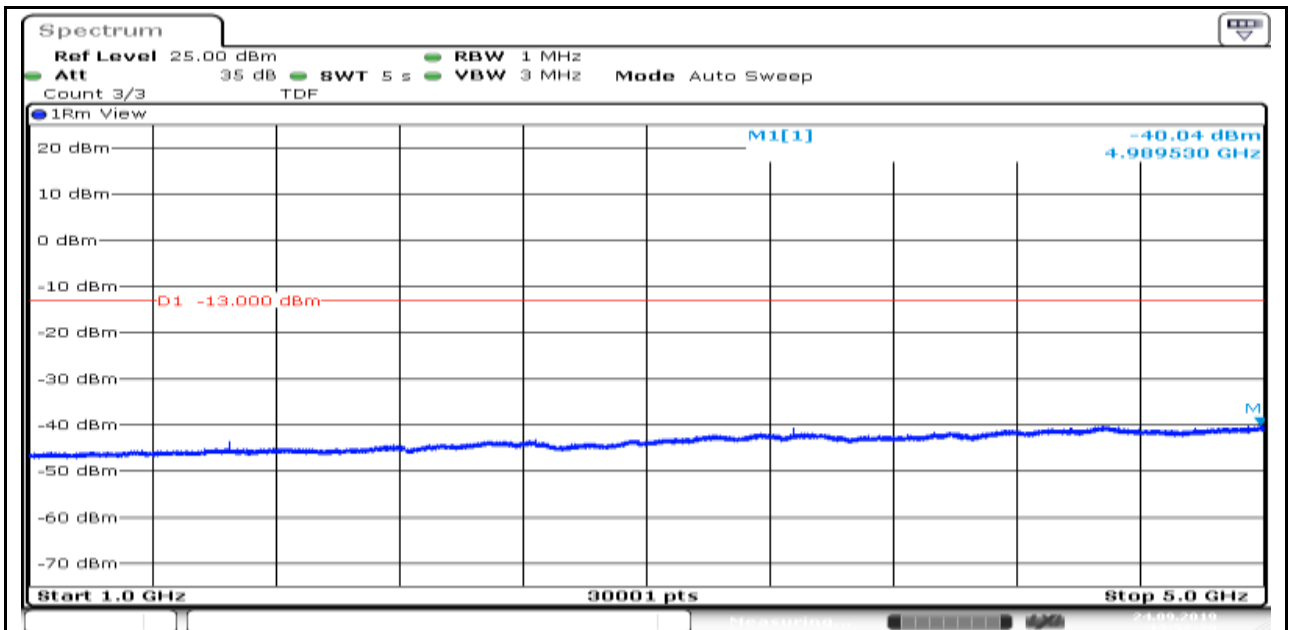
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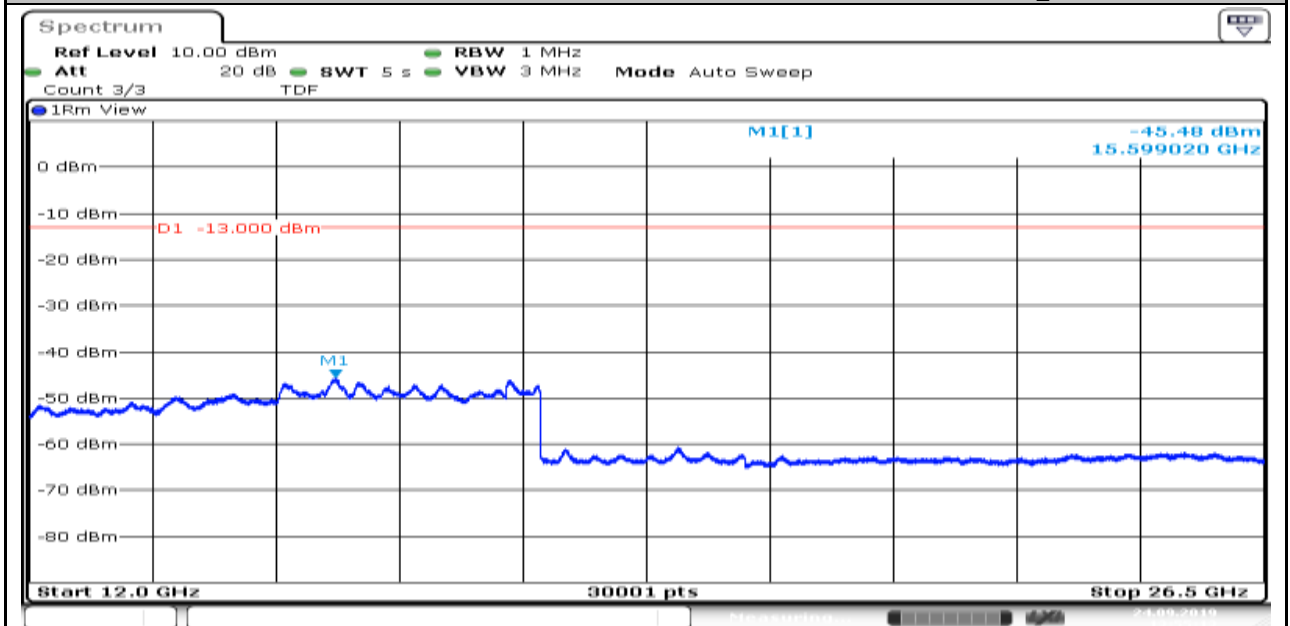
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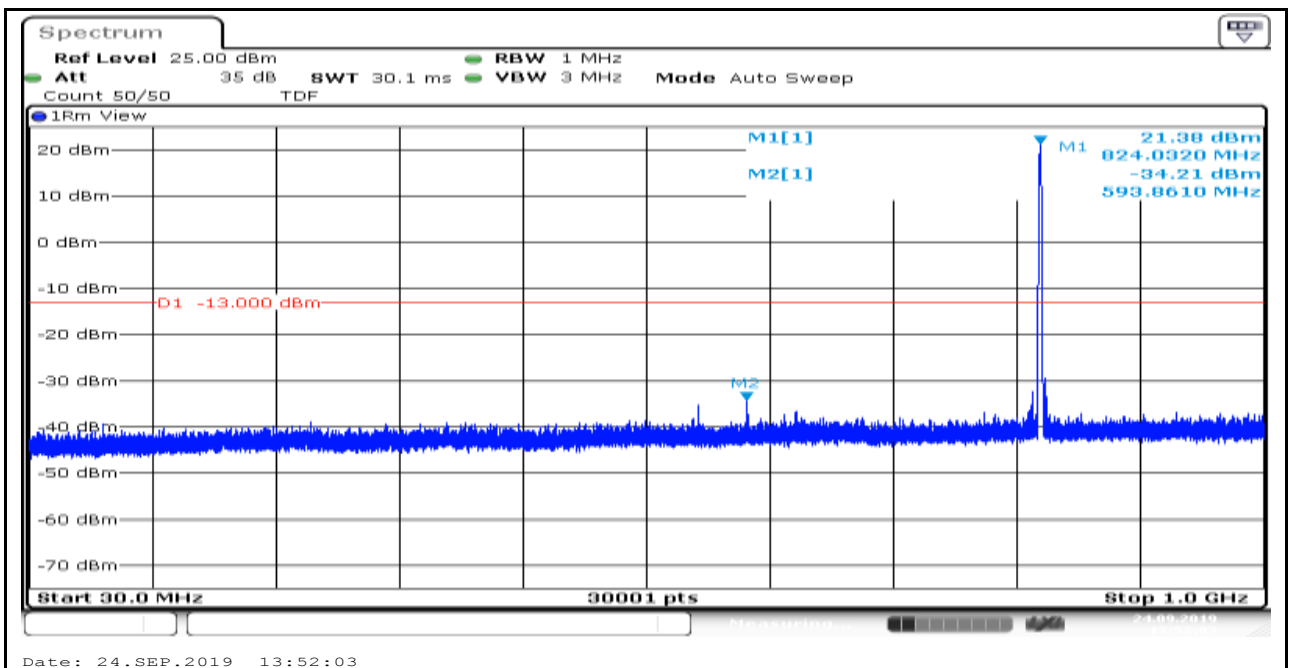
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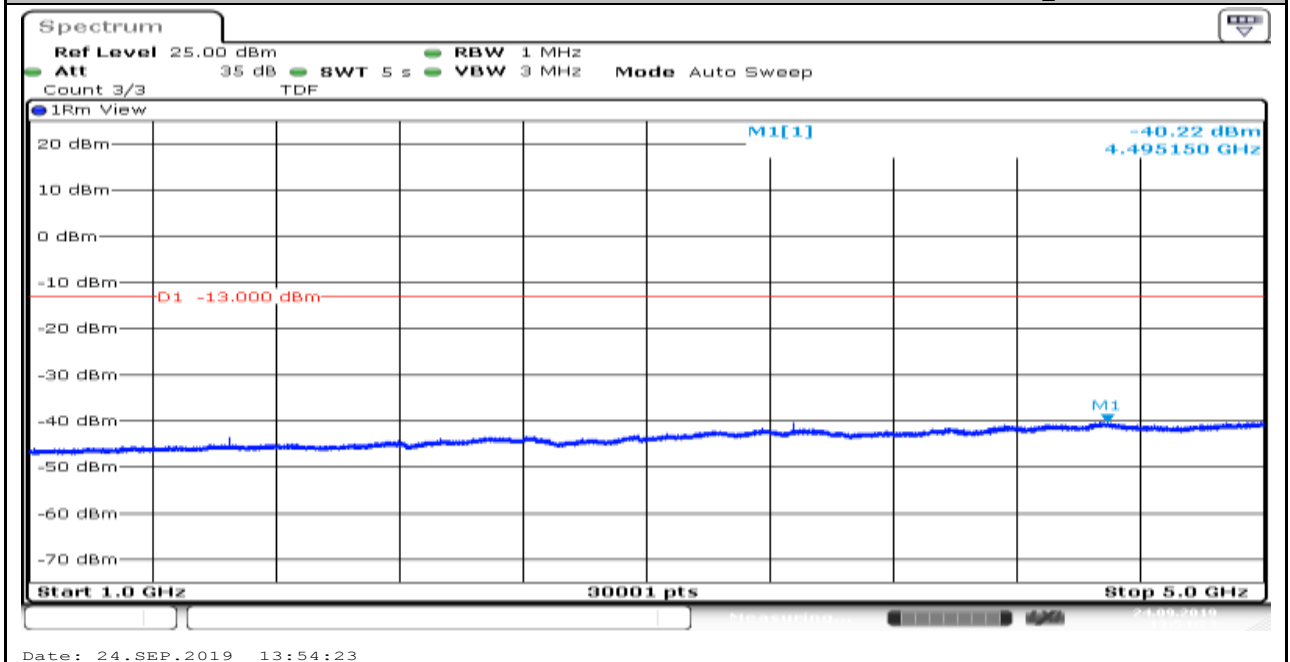
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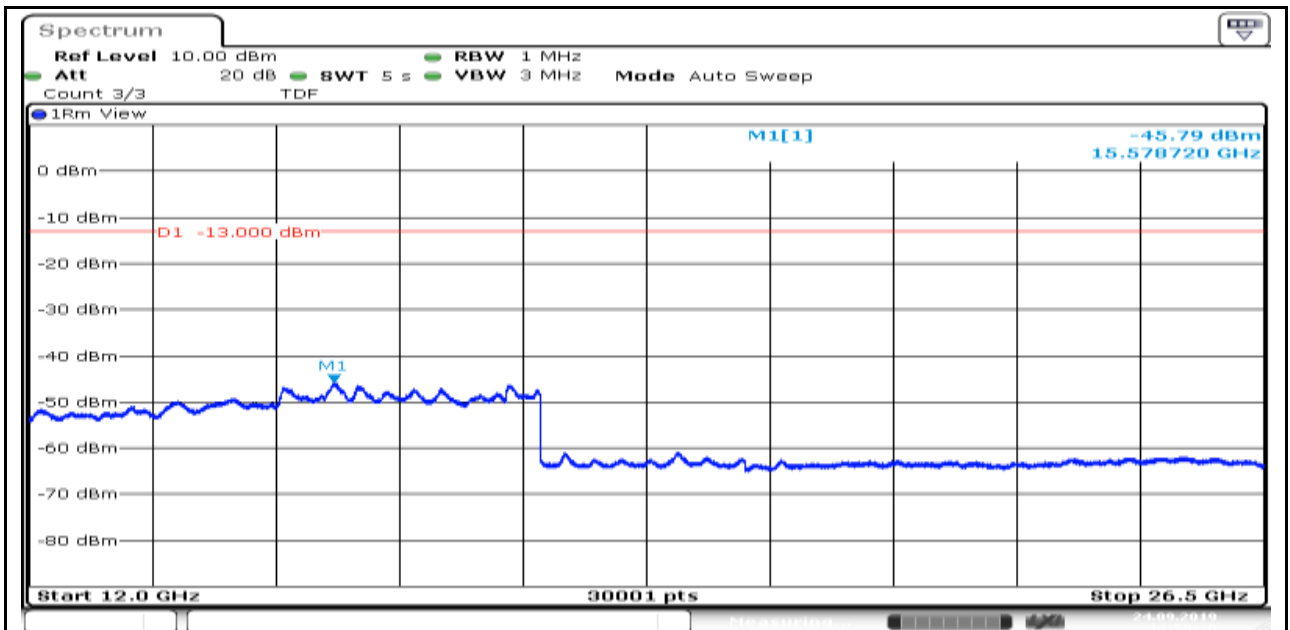
Band5_Stand-Alone_NaN_BPSK_20401_1@0_15kHz_30_1000_30-1000MHz@-34.21dBm -13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20401-1@0@15kHz-BPSK-NTNV-2019924124356.Gif_



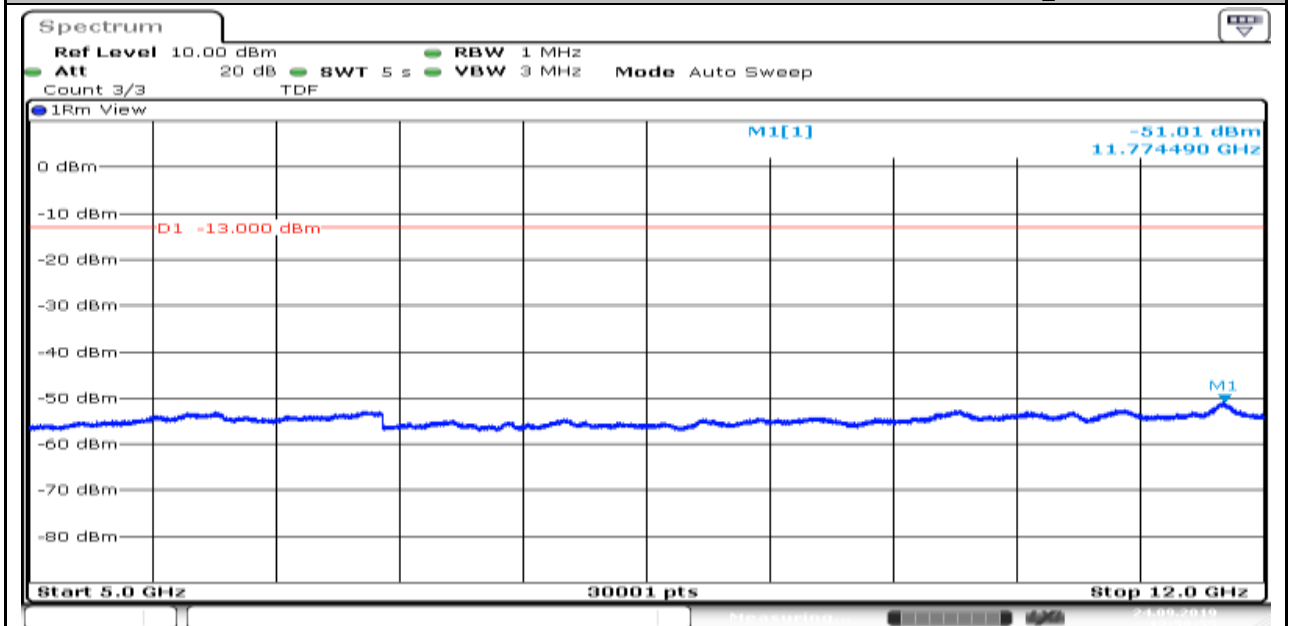
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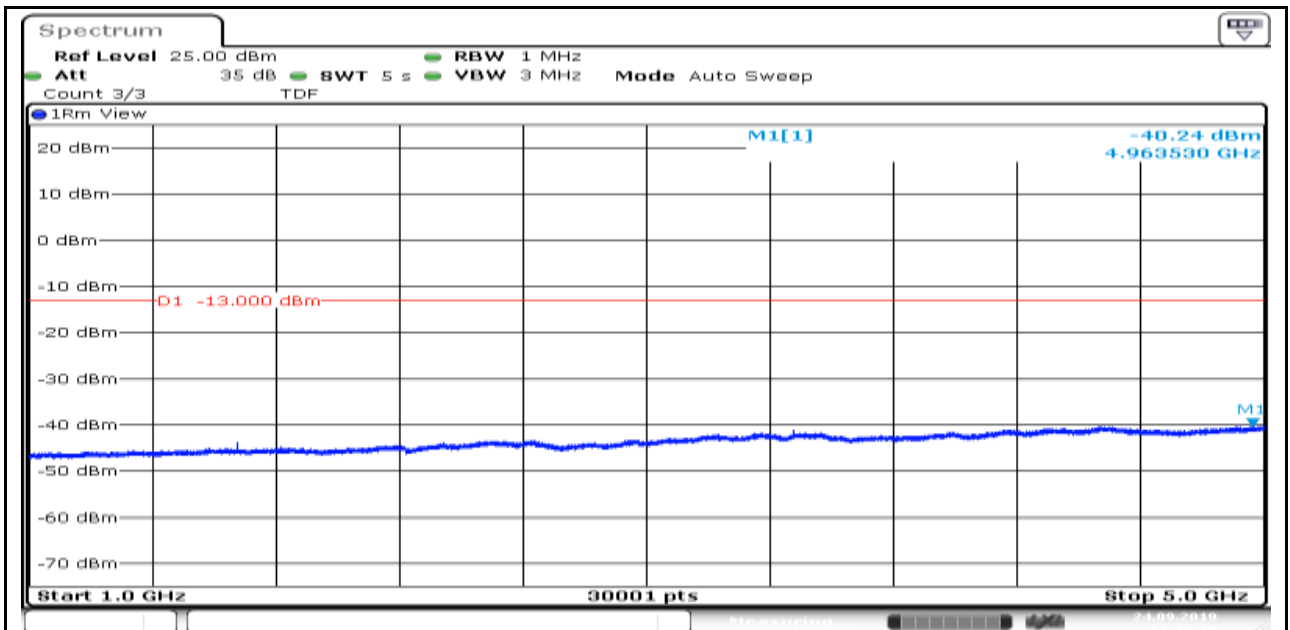
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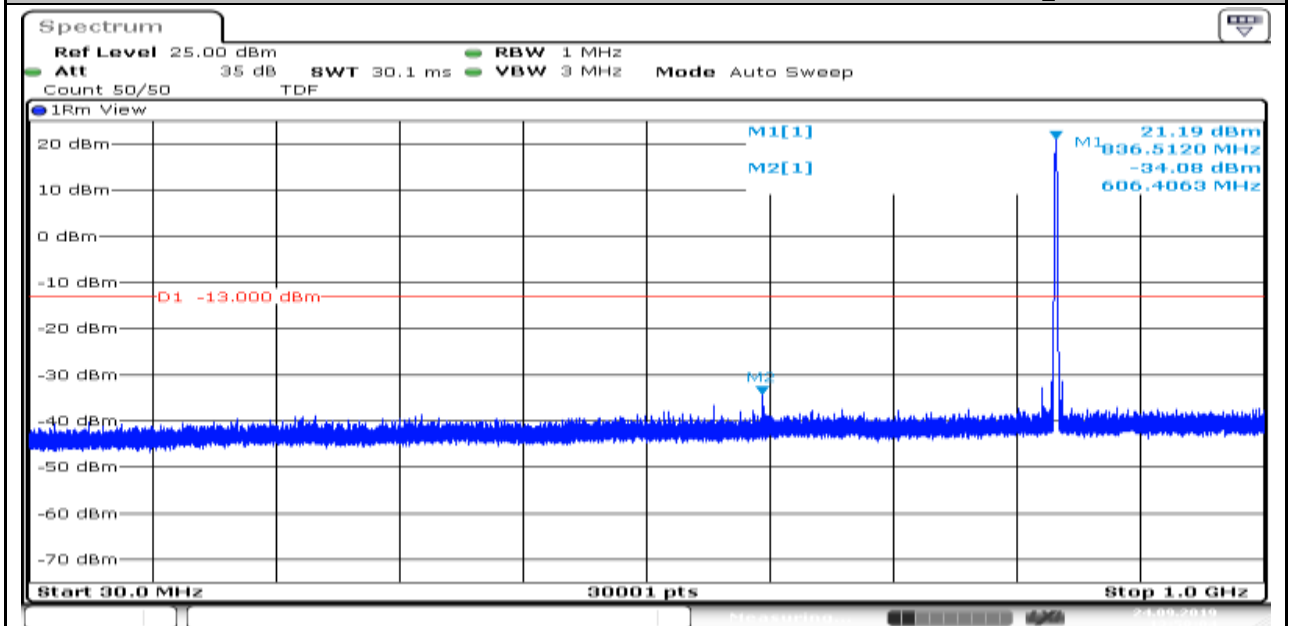
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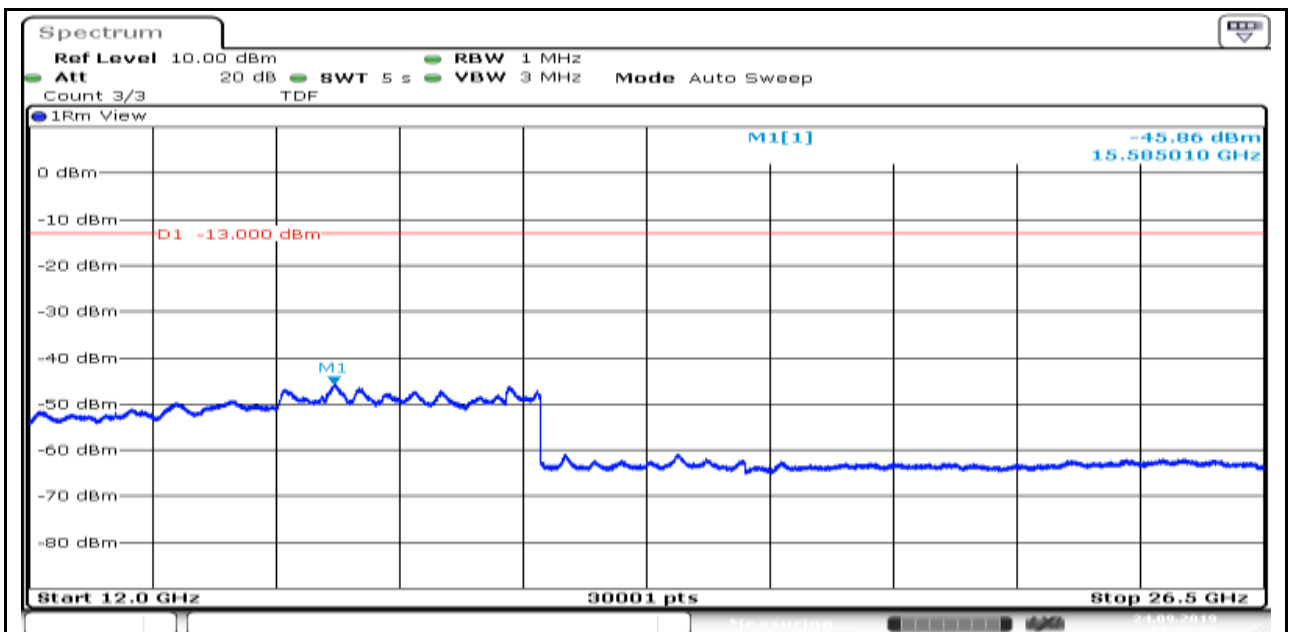
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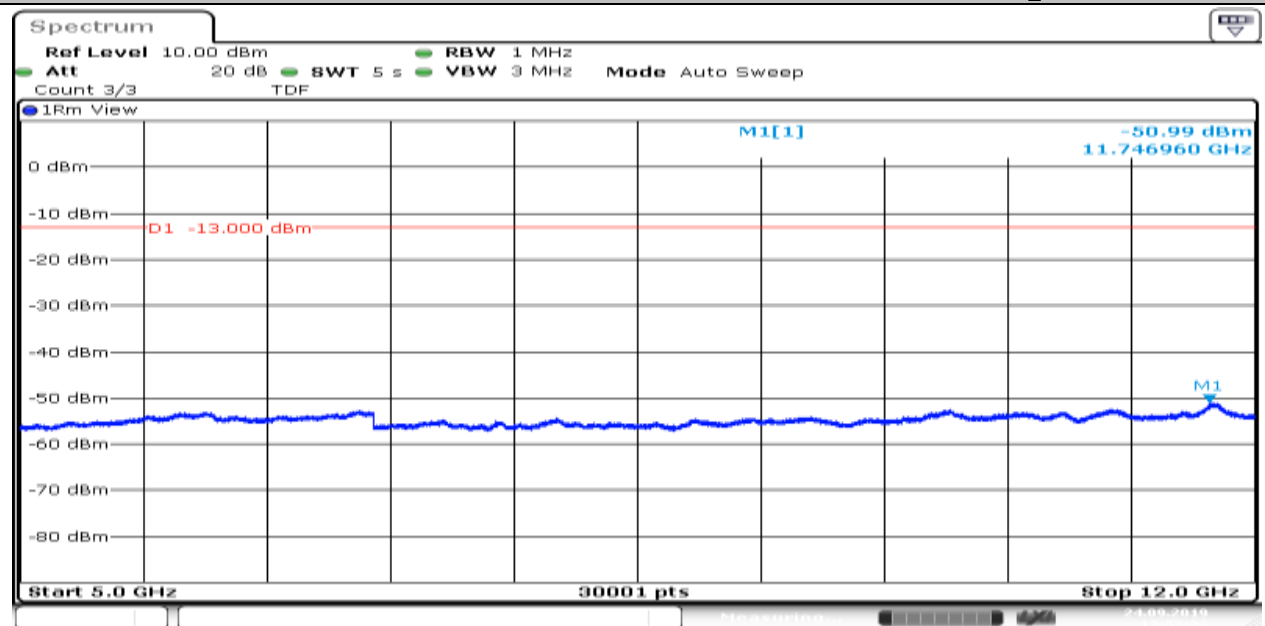
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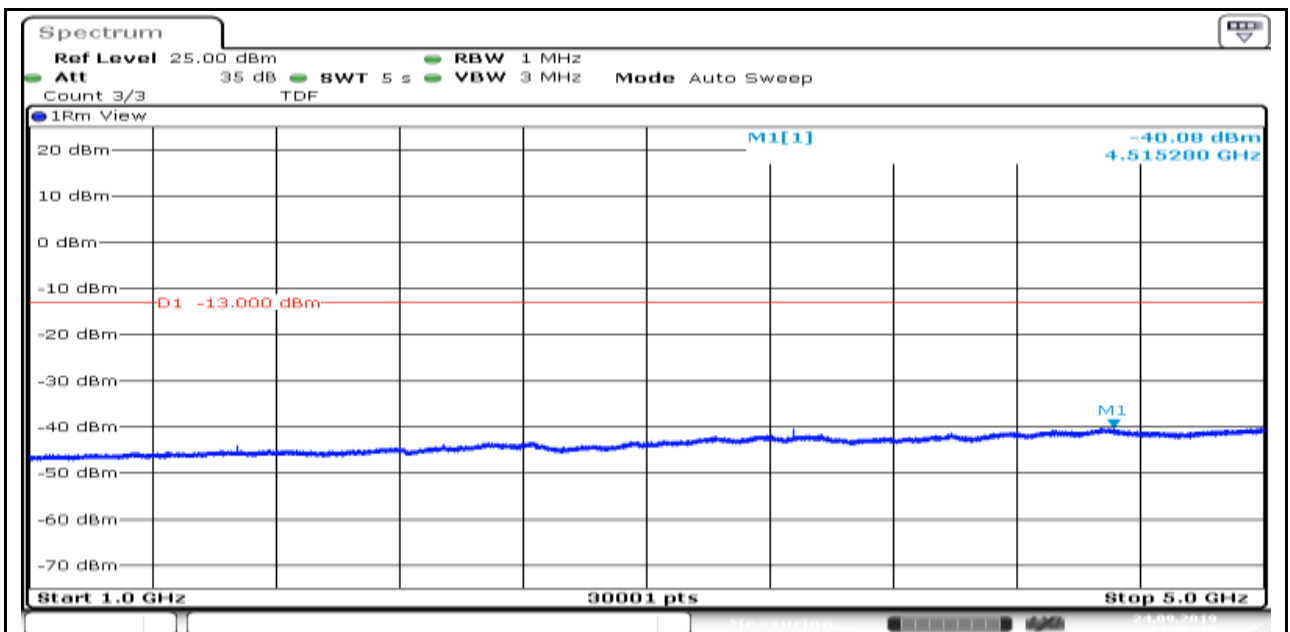
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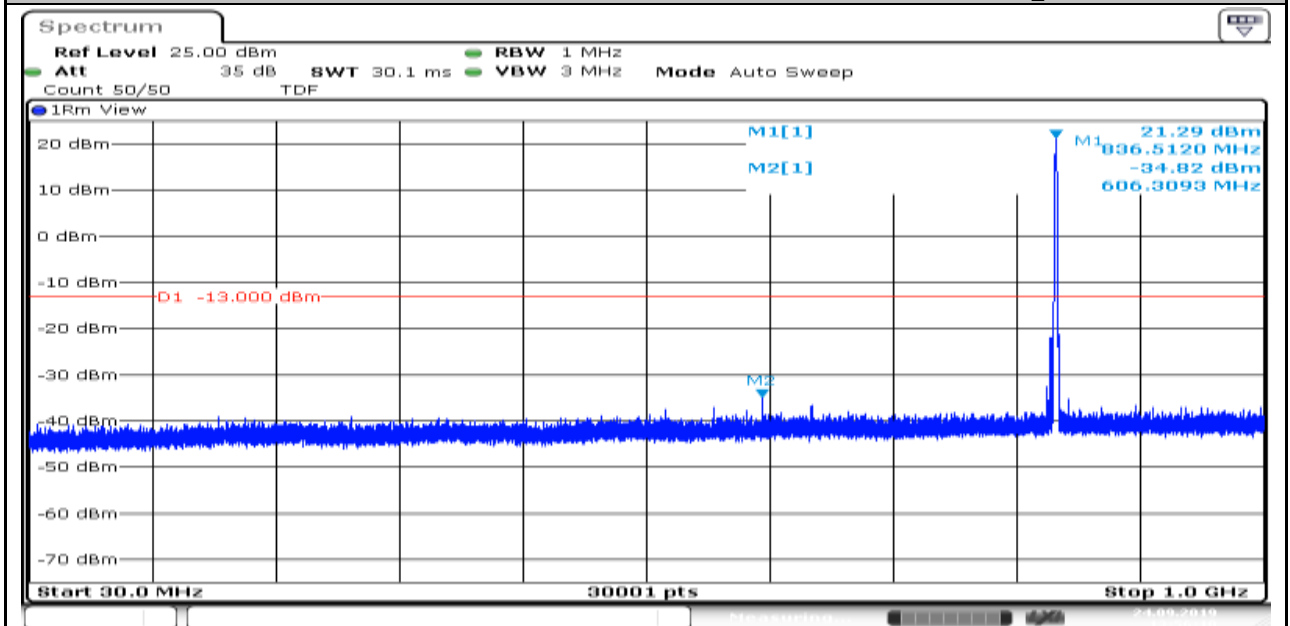
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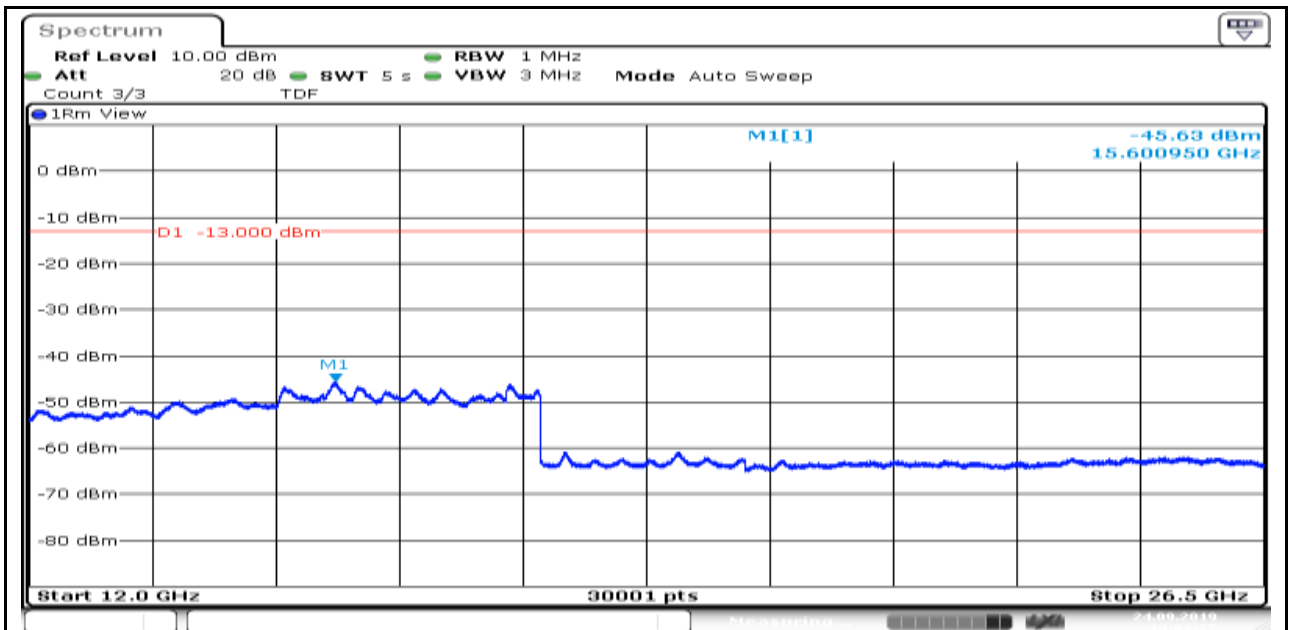
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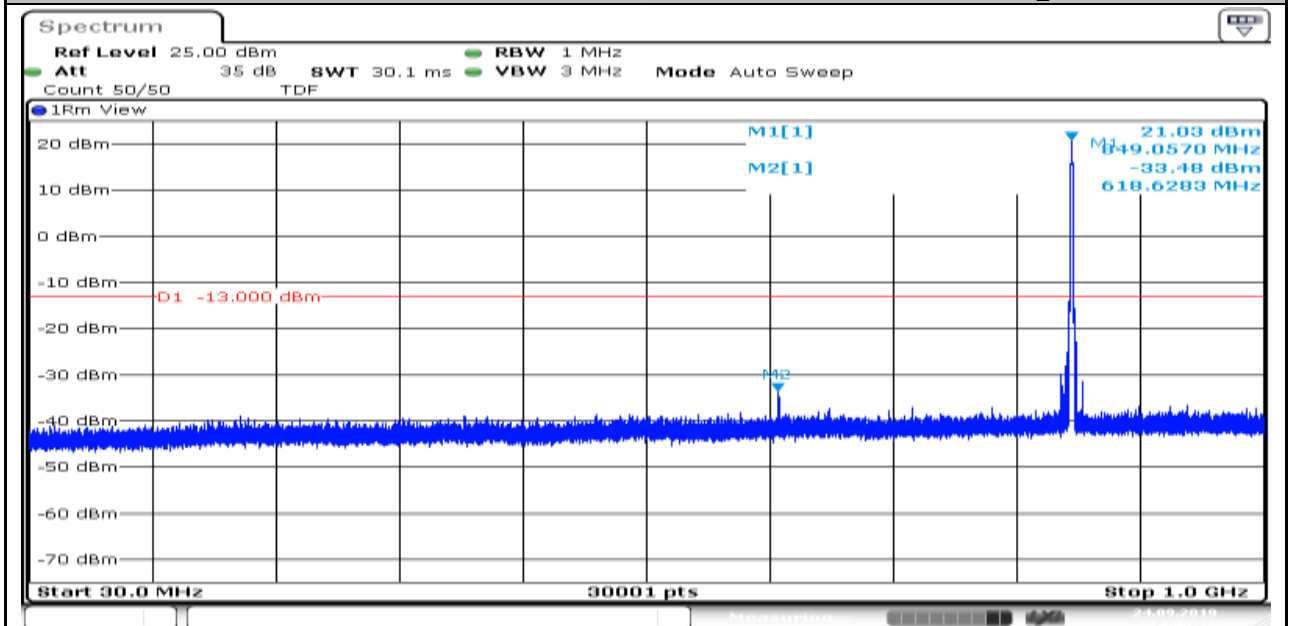
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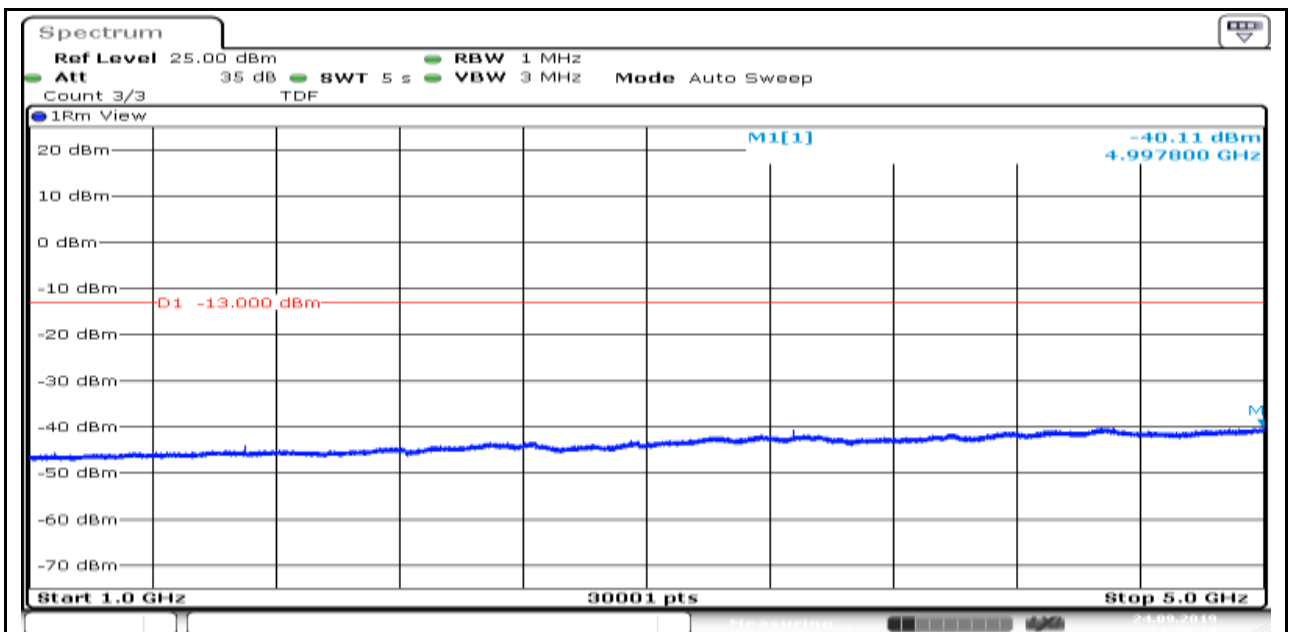
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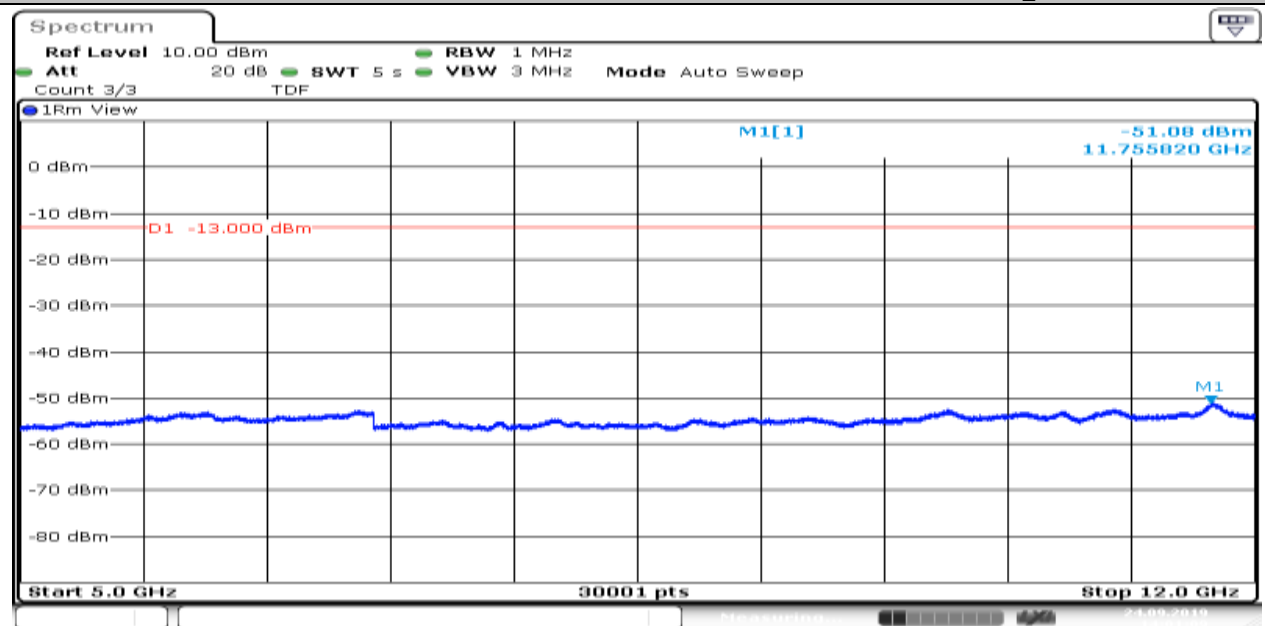
Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_30_1000_30~1000MHz@-33.48dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20649-1@0@15kHz-BPSK-NTNV-2019924125211.Gif_



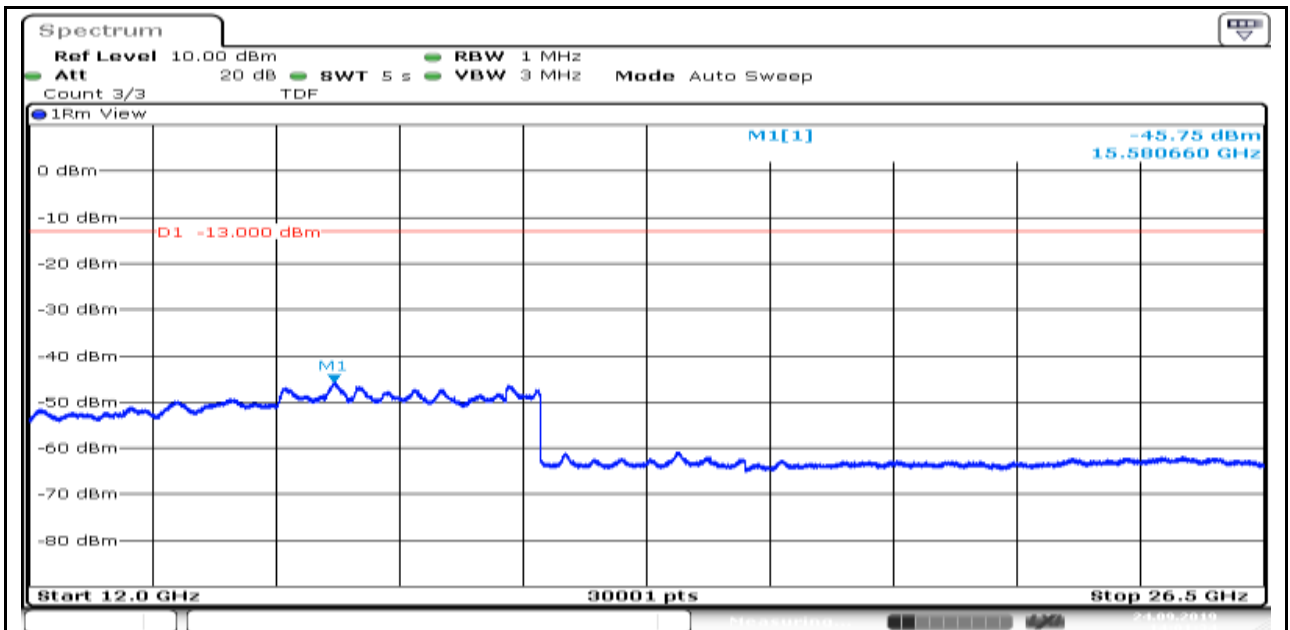
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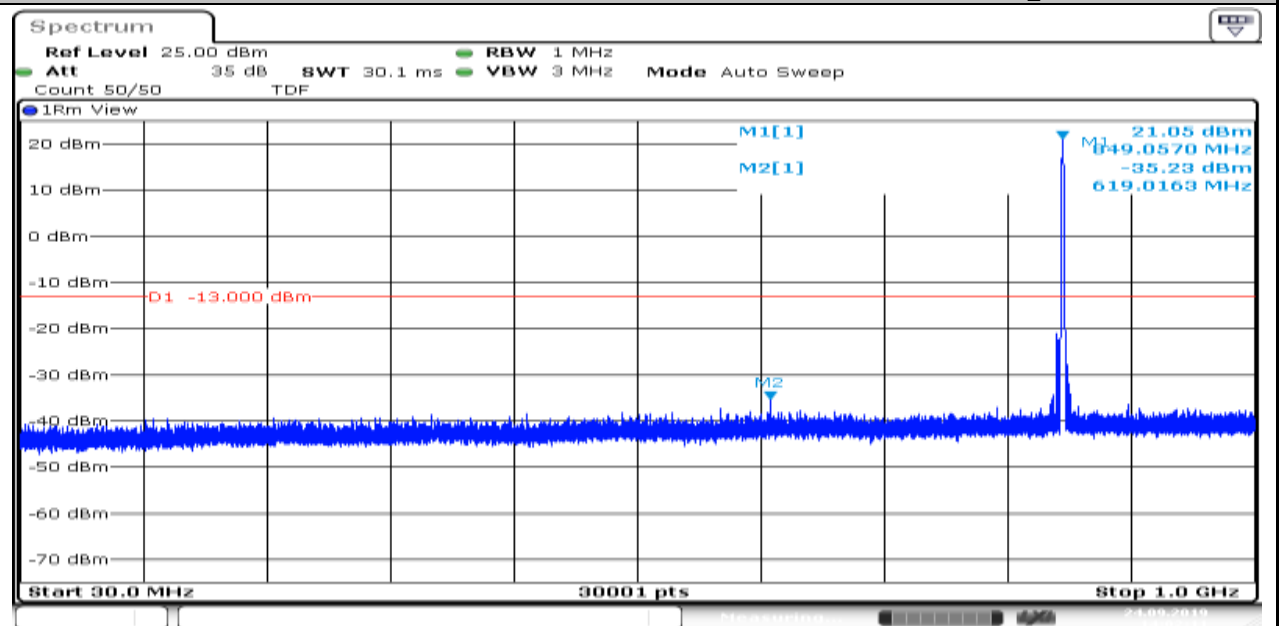
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C_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category
NB-Band5-Stand-Alone-NaN-20649-1@0@15kHz-BPSK-NTNV-201992412532.Gif_



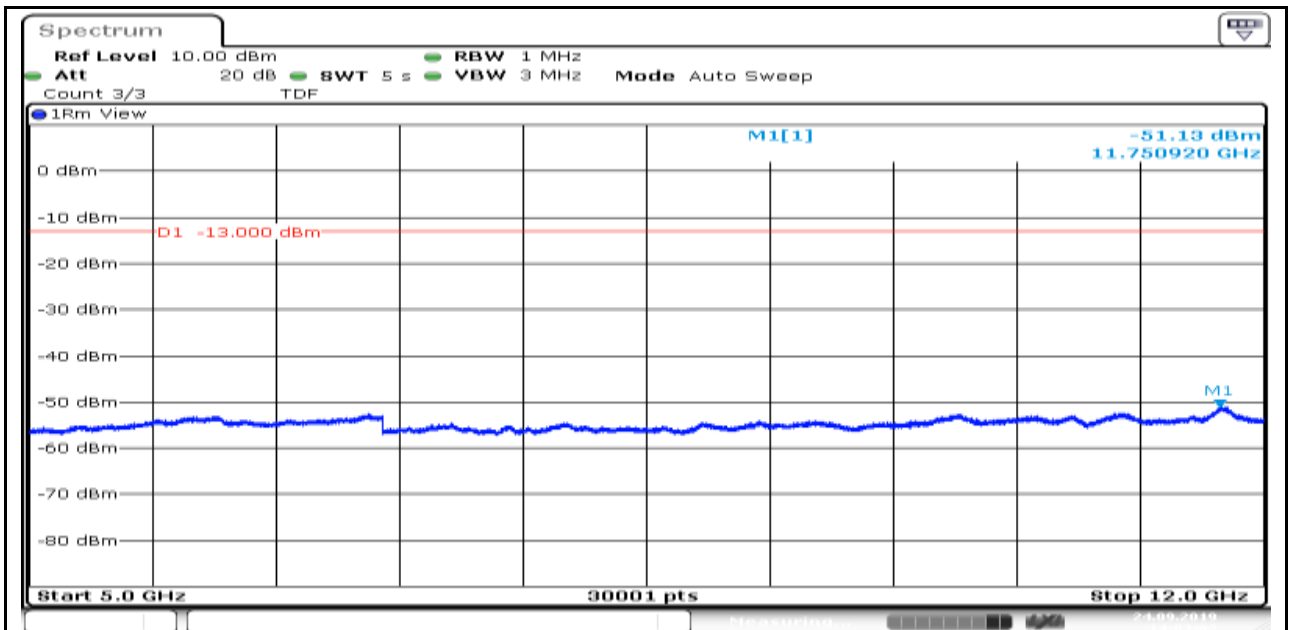
Band5_Stand-Alone_NaN_BPSK_20649_1@0_15kHz_12000_26500_12000~26500MHz@-45.75dBm_-13_PASS_FCC_ME910G1\FC
FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category
NB-Band5-Stand-Alone-NaN-20649-1@0@15kHz-BPSK-NTNV-2019924125327.Gif_



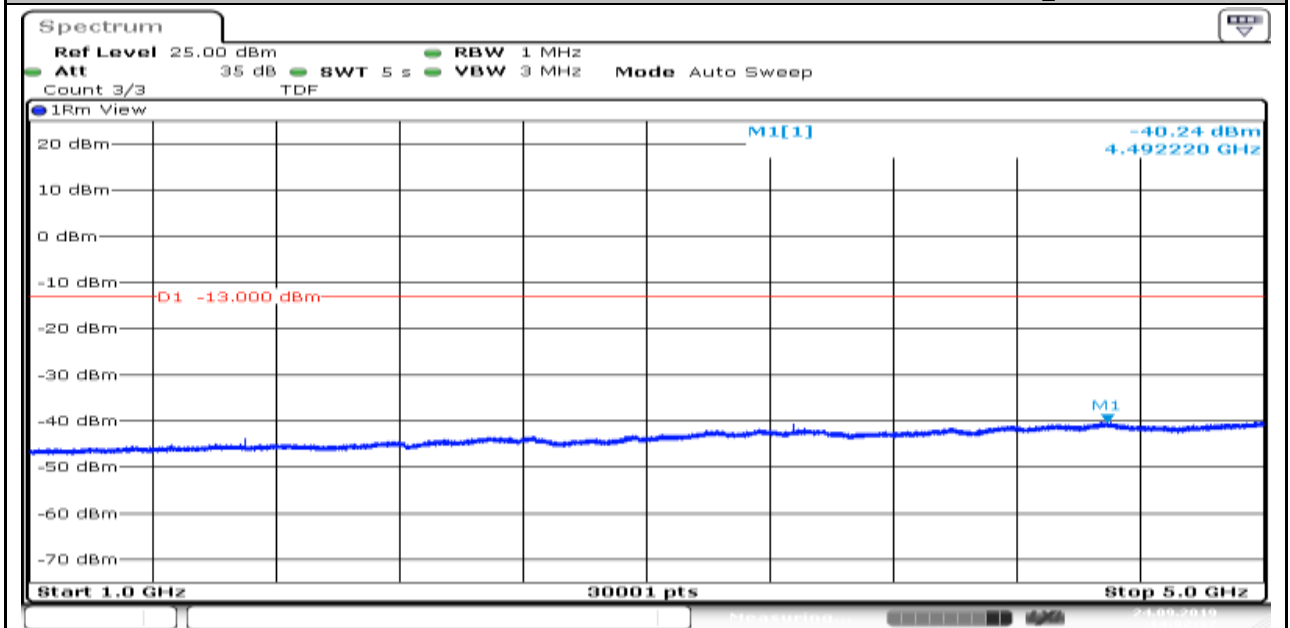
Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_30_1000_30-1000MHz@-35.23dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20649-1@11@15kHz-BPSK-NTNV-201992412544.Gif_



Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_5000_12000_5000-12000MHz@-51.13dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20649-1@11@15kHz-BPSK-NTNV-2019924125456.Gif_



Band5_Stand-Alone_NaN_BPSK_20649_1@11_15kHz_1000_5000_1000-5000MHz@-40.24dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band5\Spurious emission at antenna terminals for category NB-Band5-Stand-Alone-NaN-20649-1@11@15kHz-BPSK-NTNV-2019924125431.Gif_



Appendix C.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
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	HV	NT	-5.99	-0.007161	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	LV	NT	-10.63	-0.012708	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	NT	-13.12	-0.015684	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	HV	NT	-14.51	-0.017346	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	LV	NT	-8.61	-0.010293	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	NT	-16.12	-0.019271	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	HV	NT	-14.81	-0.017705	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	LV	NT	7.70	0.009205	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	NT	-14.71	-0.017585	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	HV	NT	-18.87	-0.022558	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	LV	NT	-13.55	-0.016198	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	NT	-8.38	-0.010018	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	50	-6.58	-0.007866	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-30	-18.73	-0.022391	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	30	-10.43	-0.012469	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	20	-9.50	-0.011357	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	10	6.62	0.007914	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	0	8.65	0.010341	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-10	-18.53	-0.022152	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	50	-14.10	-0.016856	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-30	-10.71	-0.012803	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-30	-14.95	-0.017872	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	40	-14.13	-0.016892	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	30	-9.41	-0.011249	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	20	-18.21	-0.021769	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	10	-16.15	-0.019307	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	0	-17.29	-0.020669	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-10	7.80	0.009325	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-20	-9.66	-0.011548	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-20	-16.74	-0.020012	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	50	-15.85	-0.018948	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	40	-4.65	-0.005559	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	30	-10.20	-0.012194	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	20	-6.65	-0.007950	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	10	-12.06	-0.014417	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	0	-7.85	-0.009384	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-10	-15.34	-0.018338	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	40	-16.16	-0.019319	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-30	-12.63	-0.015099	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	50	-10.56	-0.012624	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	40	-11.34	-0.013556	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	30	-8.58	-0.010257	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	20	-14.15	-0.016916	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	10	-10.09	-0.012062	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	0	-13.30	-0.015900	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-10	-4.48	-0.005356	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-20	-12.40	-0.014824	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-20	-6.25	-0.007472	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	-40	-20.89	-0.024973	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	60	-13.16	-0.015732	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	70	-14.39	-0.017203	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	80	-16.06	-0.019199	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	85	-13.15	-0.015720	±2.5	PASS

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Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	-40	-7.40	-0.008846	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	60	-6.54	-0.007818	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	70	-9.88	-0.011811	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	3.75kHz	NV	-40	-16.11	-0.019259	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	85	-12.03	-0.014381	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	85	-16.19	-0.019354	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	60	-24.48	-0.029265	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	70	-23.63	-0.028249	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	80	-22.09	-0.026408	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@0	15kHz	NV	85	-19.86	-0.023742	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	-40	9.91	0.011847	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	60	-13.59	-0.016246	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	70	-19.43	-0.023228	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@11	15kHz	NV	80	-16.09	-0.019235	±2.5	PASS
Band5	Stand-Alone	NaN	QPSK	20525	1@47	3.75kHz	NV	80	-10.91	-0.013042	±2.5	PASS

Appendix D: Test Results of Band 12 for NB-IoT operation

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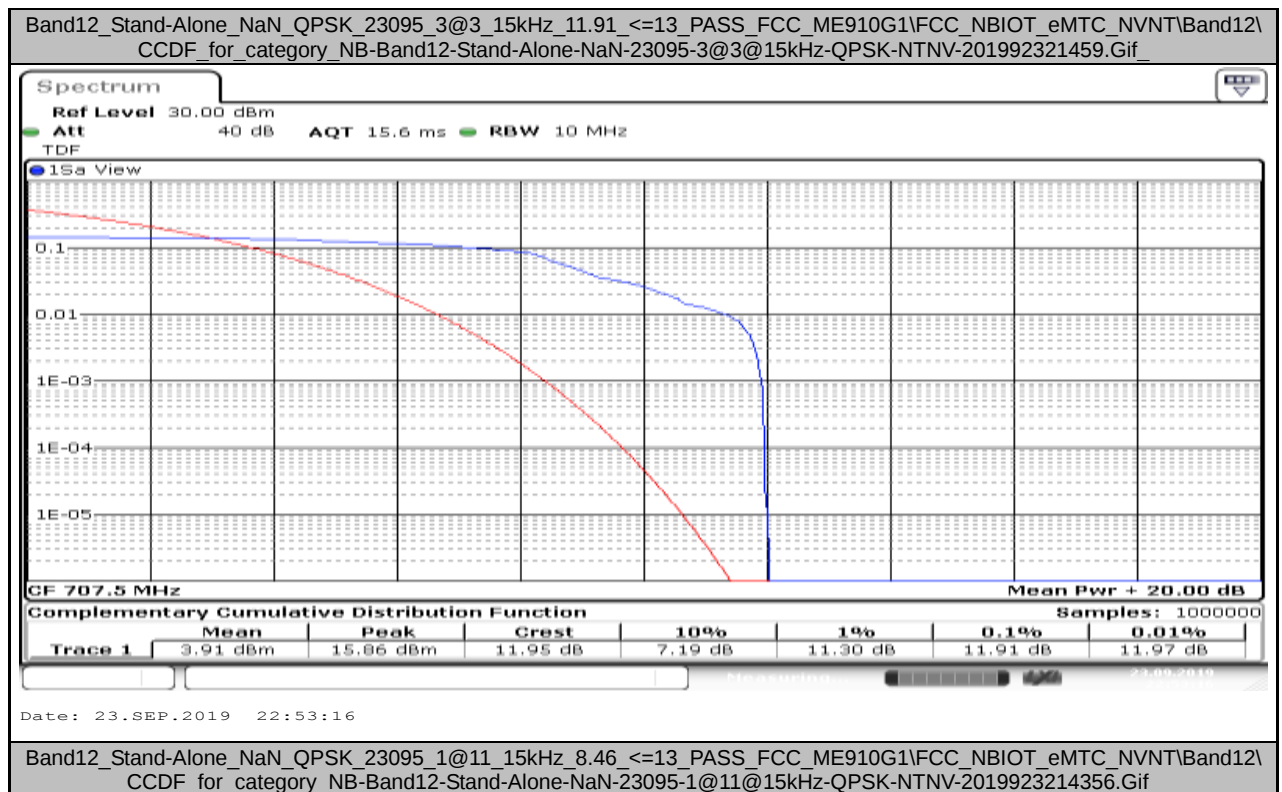
Appendix D.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for NB Test Result

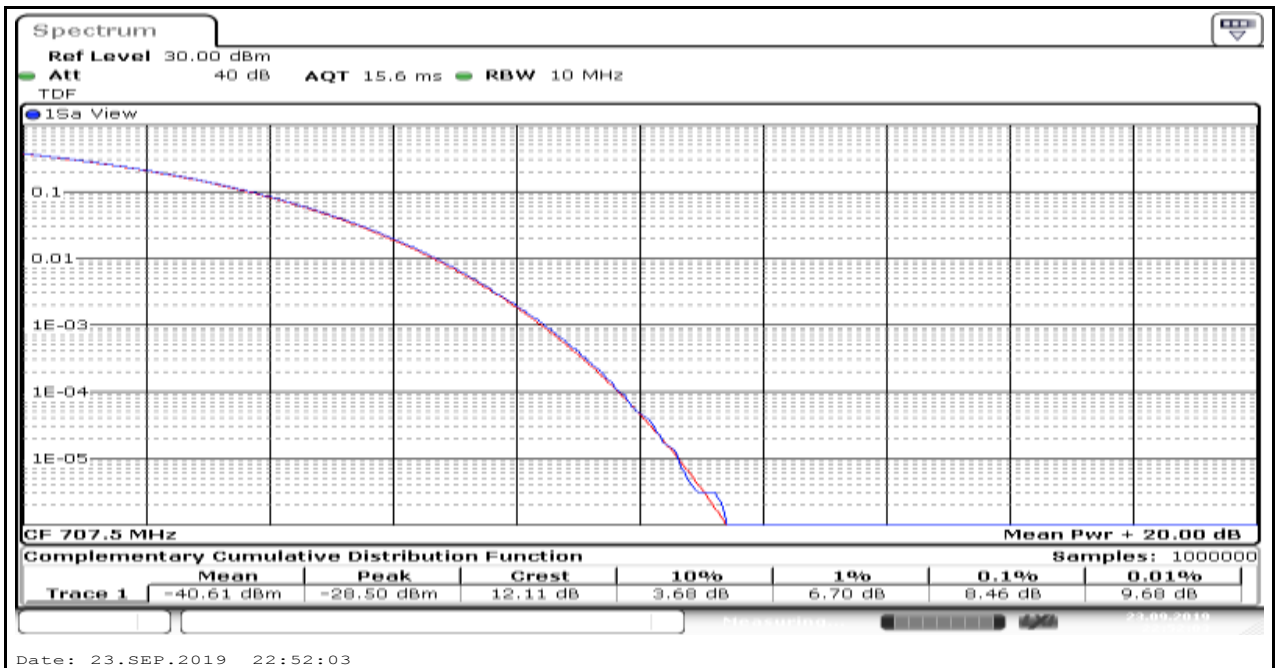
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result	ERP		Limit (watts)	Verdict
							dBm	dBm	Watts		
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	7.84	7.83	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	7.89	7.88	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@11	15kHz	7.82	7.81	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	3@3	15kHz	7.77	7.76	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	7.88	7.87	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	3@3	15kHz	20.91	20.9	0.123	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@0	15kHz	20.78	20.77	0.119	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@11	15kHz	20.73	20.72	0.118	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@47	3.75kHz	20.38	20.37	0.109	3	PASS
Band12	Stand-Alone	NaN	QPSK	23012	1@0	3.75kHz	20.43	20.42	0.110	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	20.57	20.56	0.114	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	20.36	20.35	0.108	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	20.74	20.73	0.118	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	20.36	20.35	0.108	3	PASS
Band12	Stand-Alone	NaN	QPSK	23095	3@3	15kHz	20.92	20.91	0.123	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@0	15kHz	20.63	20.62	0.115	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	3@3	15kHz	20.75	20.74	0.119	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@11	15kHz	20.58	20.57	0.114	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@47	3.75kHz	20.16	20.15	0.104	3	PASS
Band12	Stand-Alone	NaN	QPSK	23178	1@0	3.75kHz	20.2	20.19	0.104	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	3@3	15kHz	7.49	7.48	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	7.6	7.59	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	7.67	7.66	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	7.58	7.57	0.006	3	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@11	15kHz	7.52	7.51	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	7.83	7.82	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	7.69	7.68	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	7.85	7.84	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	3@3	15kHz	7.77	7.76	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@47	3.75kHz	7.82	7.81	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@0	3.75kHz	20.45	20.44	0.111	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	3@3	15kHz	20.91	20.9	0.123	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@47	3.75kHz	20.39	20.38	0.109	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@0	15kHz	20.77	20.76	0.119	3	PASS
Band12	Stand-Alone	NaN	BPSK	23012	1@11	15kHz	20.65	20.64	0.116	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	20.37	20.36	0.109	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	20.71	20.7	0.117	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	20.74	20.73	0.118	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@47	3.75kHz	20.29	20.28	0.107	3	PASS
Band12	Stand-Alone	NaN	BPSK	23095	3@3	15kHz	20.92	20.91	0.123	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@0	15kHz	20.52	20.51	0.112	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@11	15kHz	20.51	20.5	0.112	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	3@3	15kHz	20.75	20.74	0.119	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@47	3.75kHz	20.19	20.18	0.104	3	PASS
Band12	Stand-Alone	NaN	BPSK	23178	1@0	3.75kHz	20.29	20.28	0.107	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	7.63	7.62	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@47	3.75kHz	7.64	7.63	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	3@3	15kHz	7.59	7.58	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	7.54	7.53	0.006	3	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	7.56	7.55	0.006	3	PASS

Appendix D.2: Peak-to-Average Ratio(CCDF) for NB Test Result

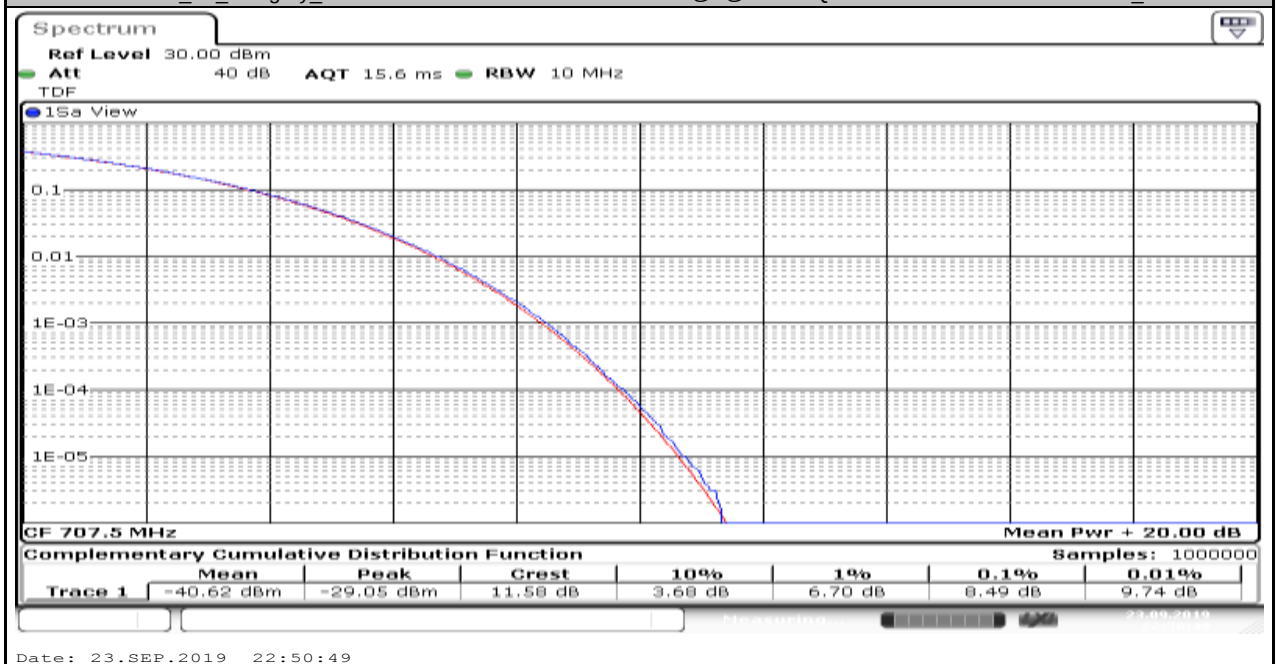
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dB)	Limit (dB)	Verdict
Band12	Stand-Alone	NaN	QPSK	23095	3@3	15kHz	11.91	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@11	15kHz	8.46	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	8.49	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	1.71	<=13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	3.59	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	3@3	15kHz	9.54	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	3.19	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	1.48	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@47	3.75kHz	4.41	<=13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	1.65	<=13	PASS

Test Graphs

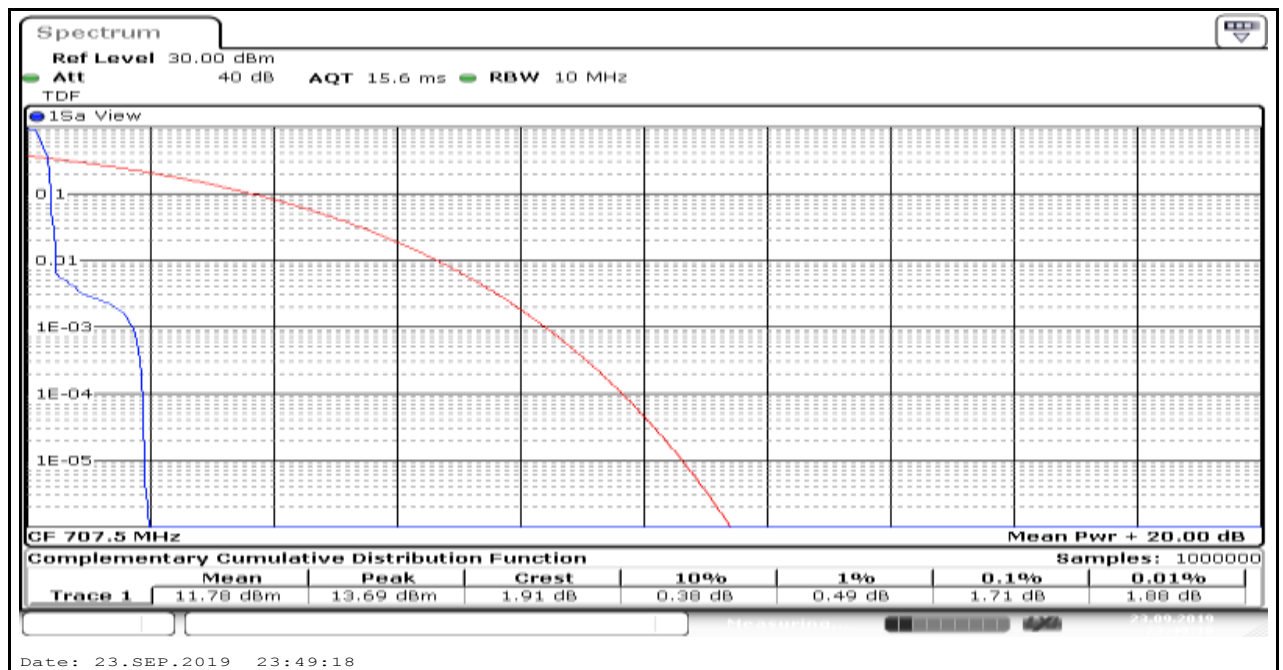




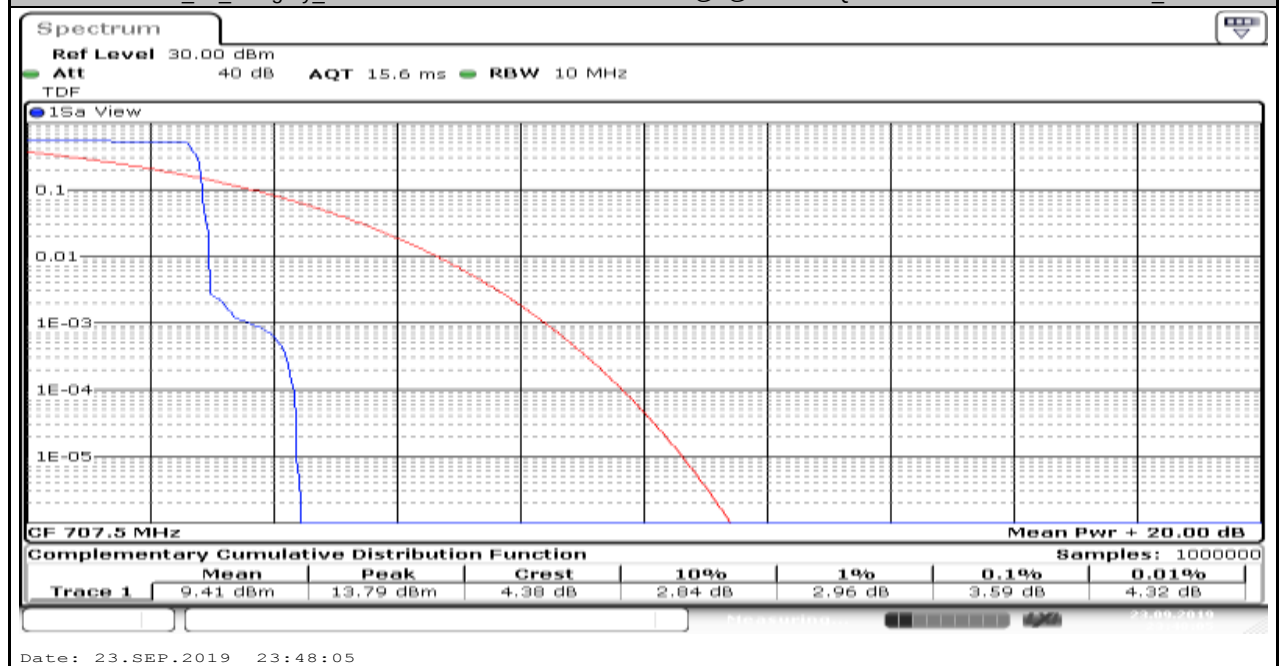
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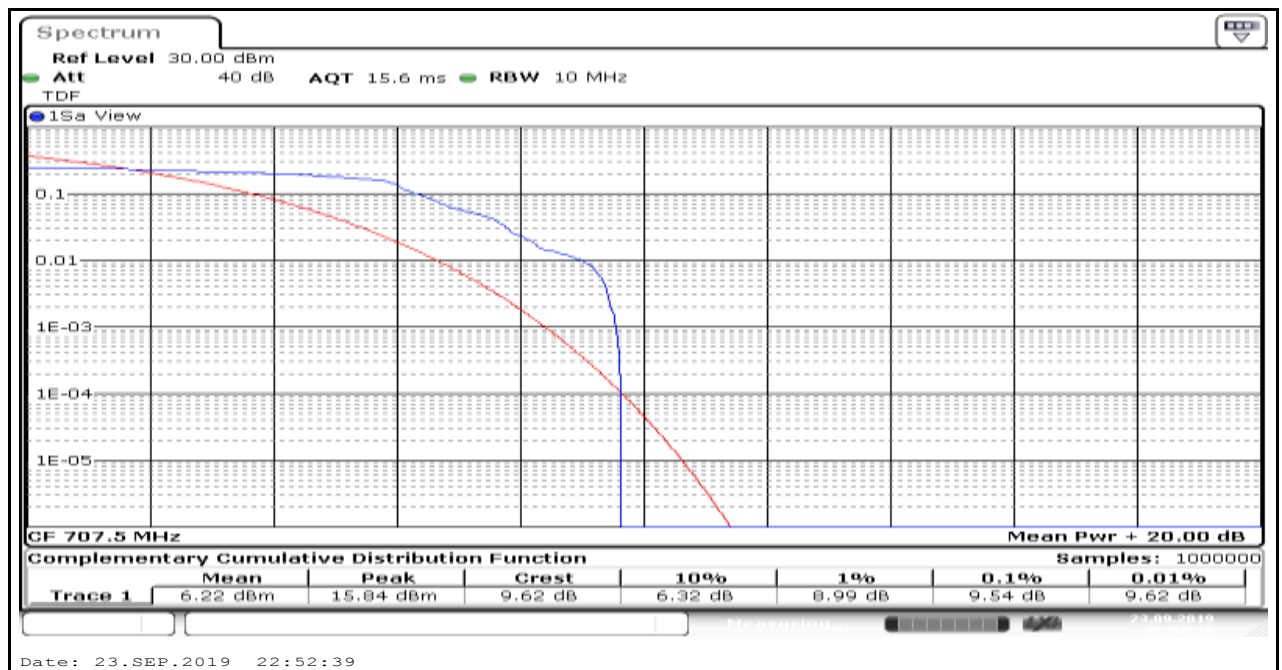
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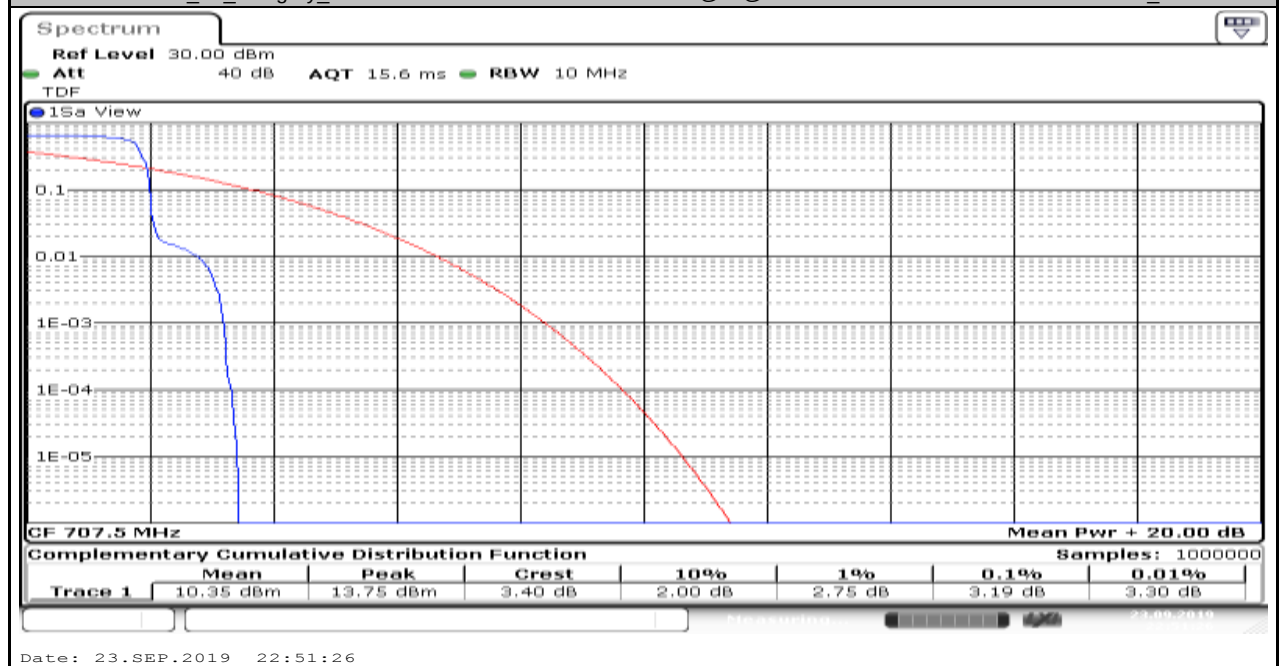
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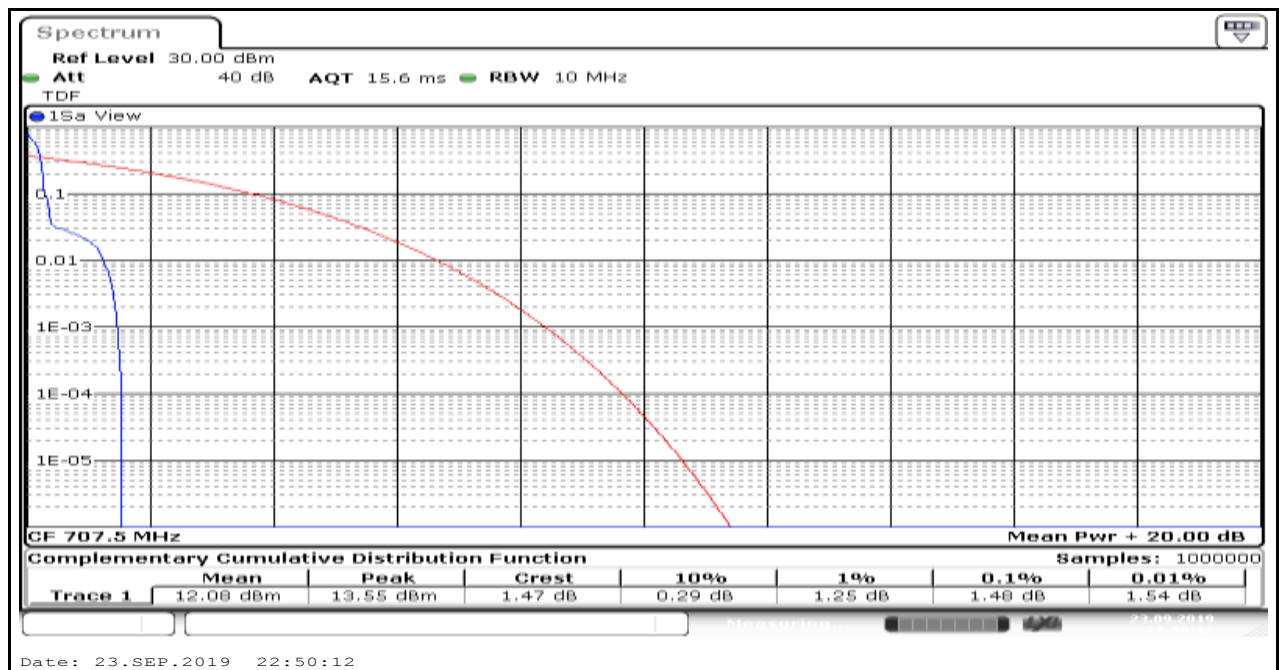
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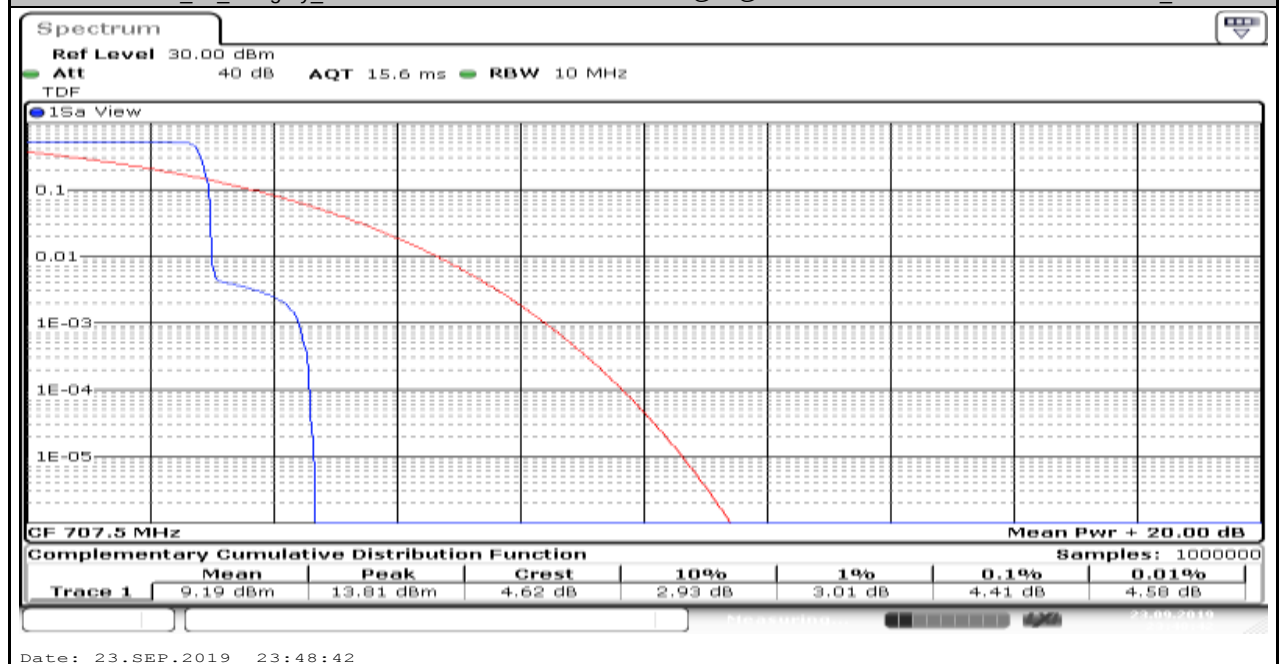
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Band12_Stand-Alone_NaN_BPSK_23095_1@0_15kHz_1.48_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\CDF_for_category_NB-Band12-Stand-Alone-NaN-23095-1@0@15kHz-BPSK-NTNV-201992321426.Gif_

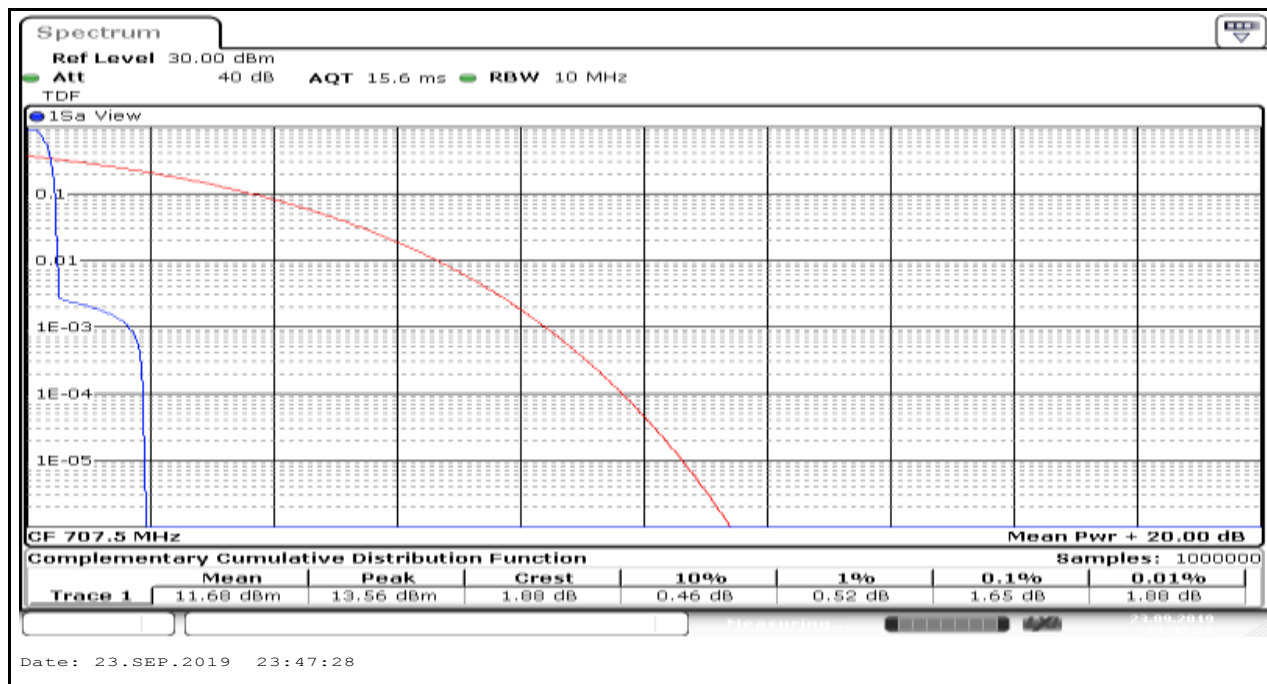


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Band12_Stand-Alone_NaN_BPSK_23095_1@0_3.75kHz_1.65_<=13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\CCDF_for_category_NB-Band12-Stand-Alone-NaN-23095-1@0@3.75kHz-BPSK-NTNV-2019923223921.Gif_

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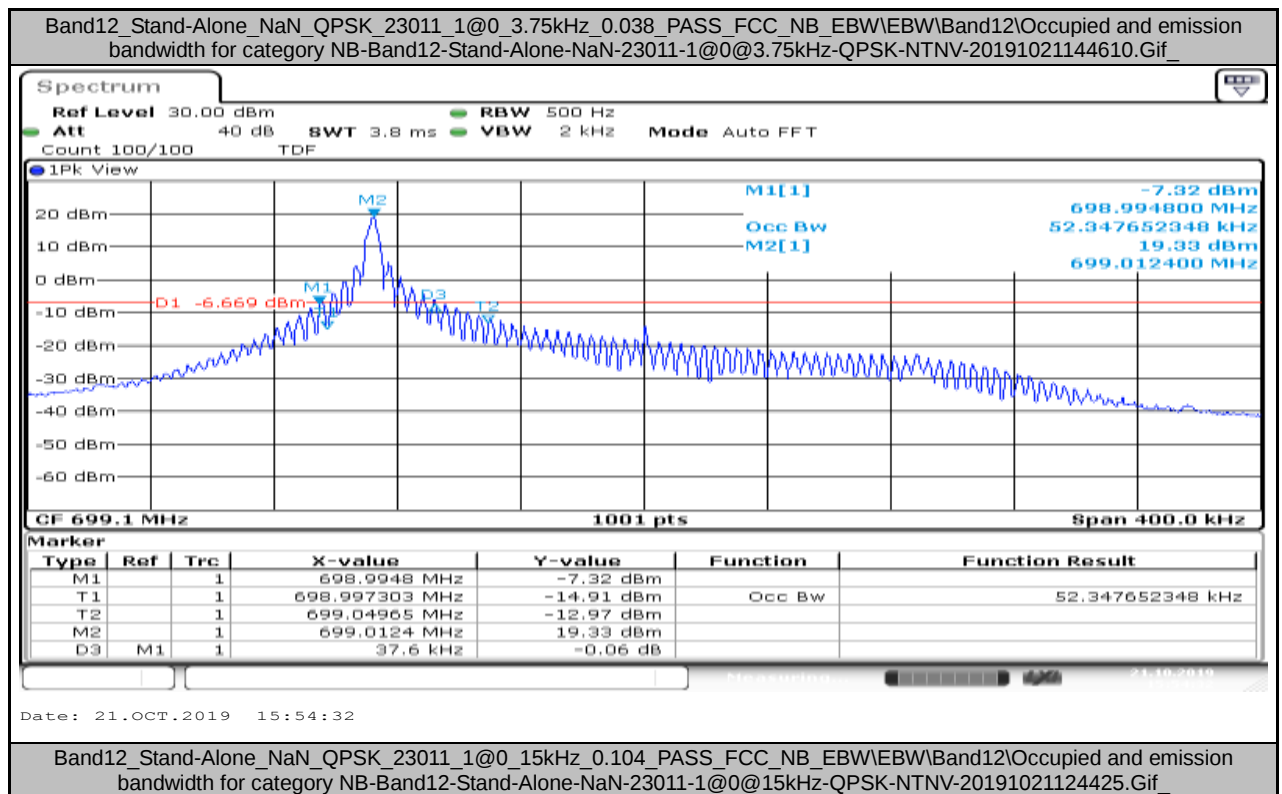


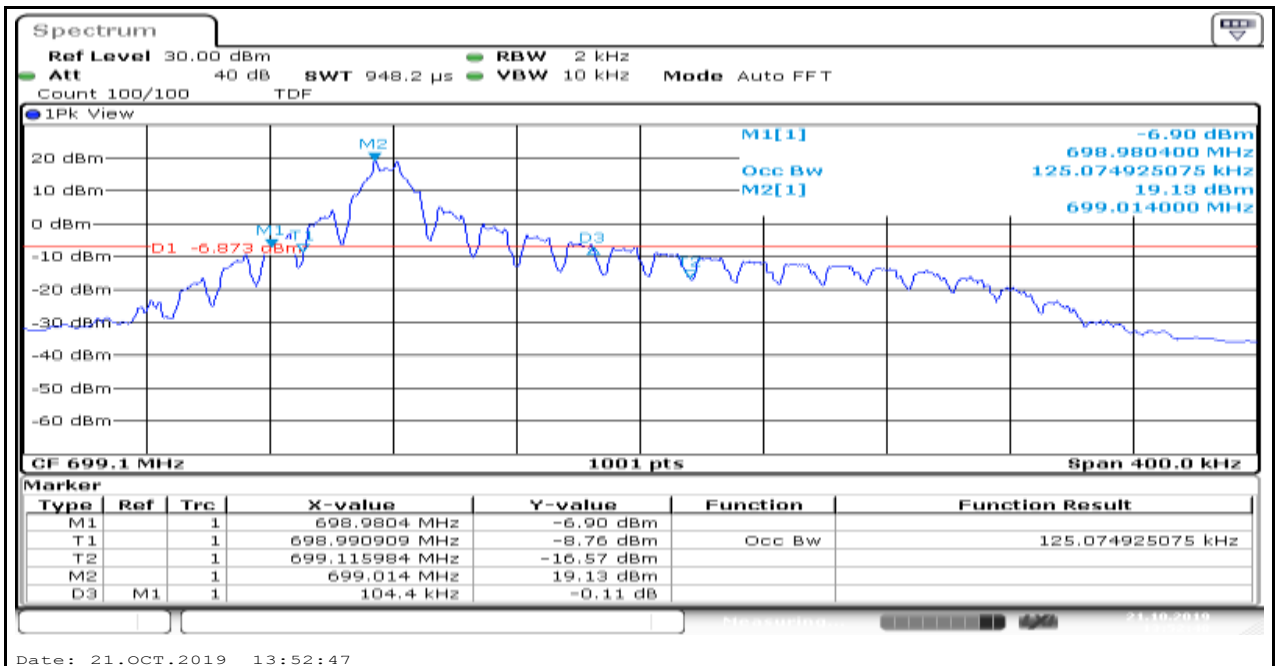
Appendix D.3: 26dB Emission Bandwidth and Occupied Bandwidth for NB

Test Result

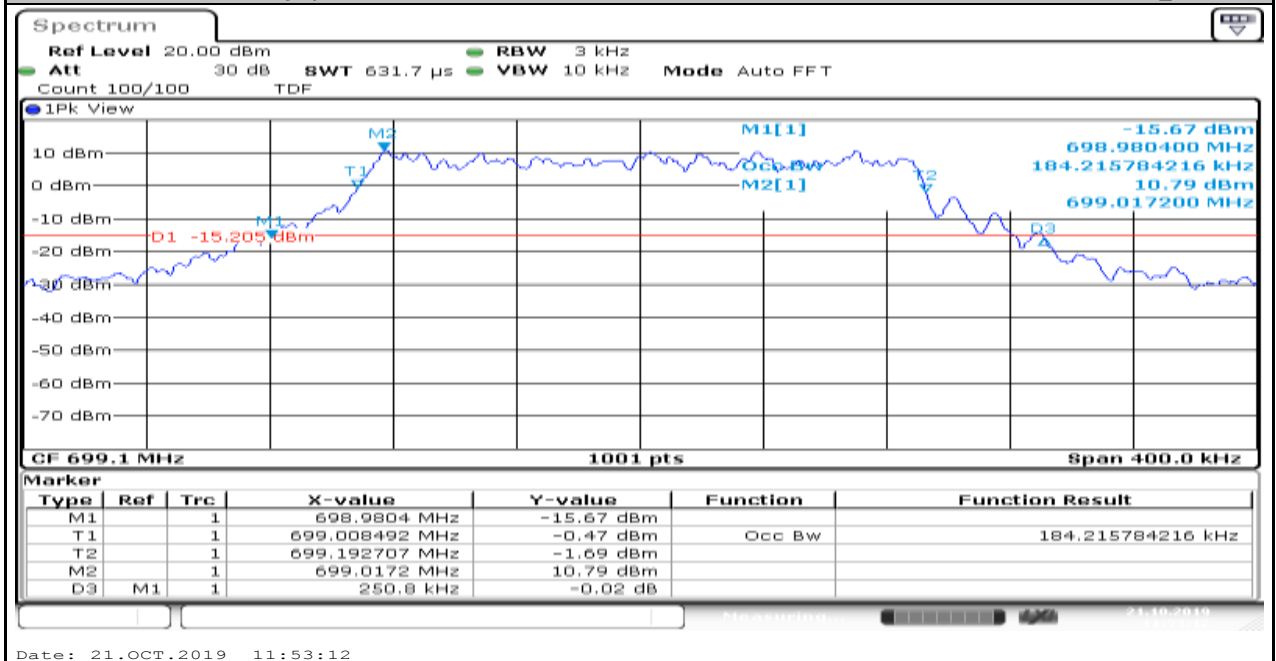
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	26dB Bandwidth (MHz)	Occupied Bandwidth (MHz)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	0.038	0.052	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	0.104	0.125	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	0.251	0.184	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	0.038	0.052	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	15kHz	0.106	0.124	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	0.250	0.184	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	0.038	0.052	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	0.106	0.123	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	0.250	0.184	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	0.032	0.054	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	0.106	0.123	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	3.75kHz	0.032	0.054	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	0.106	0.122	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	0.032	0.054	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	0.106	0.122	PASS

Test Graphs

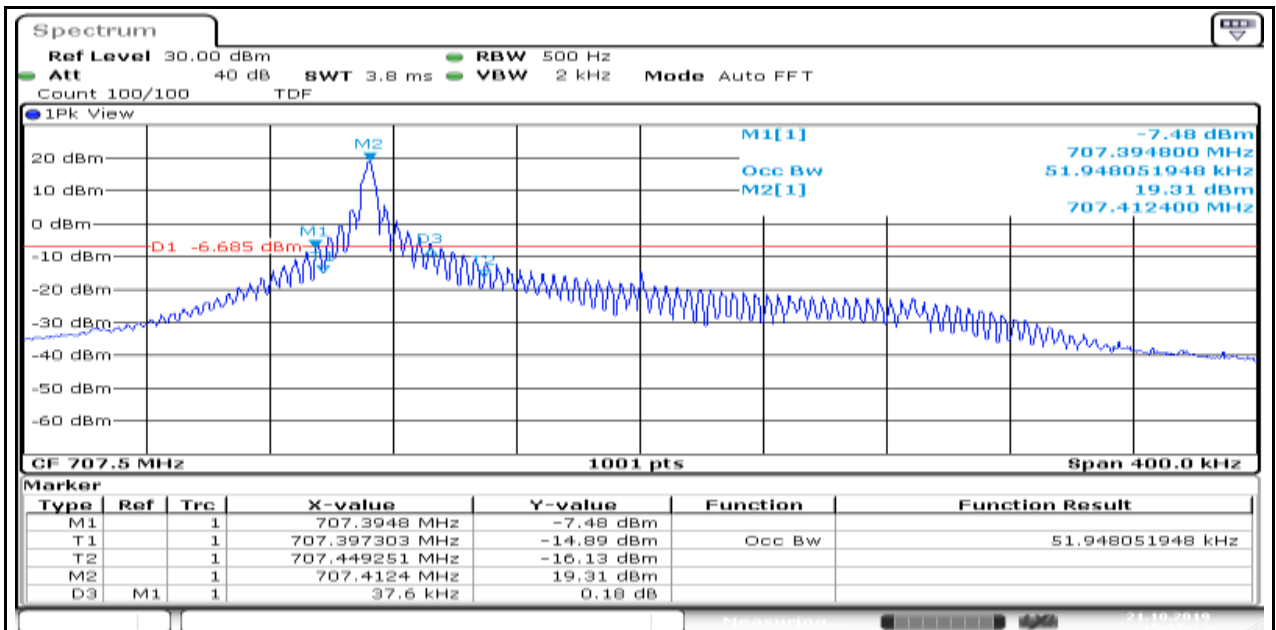




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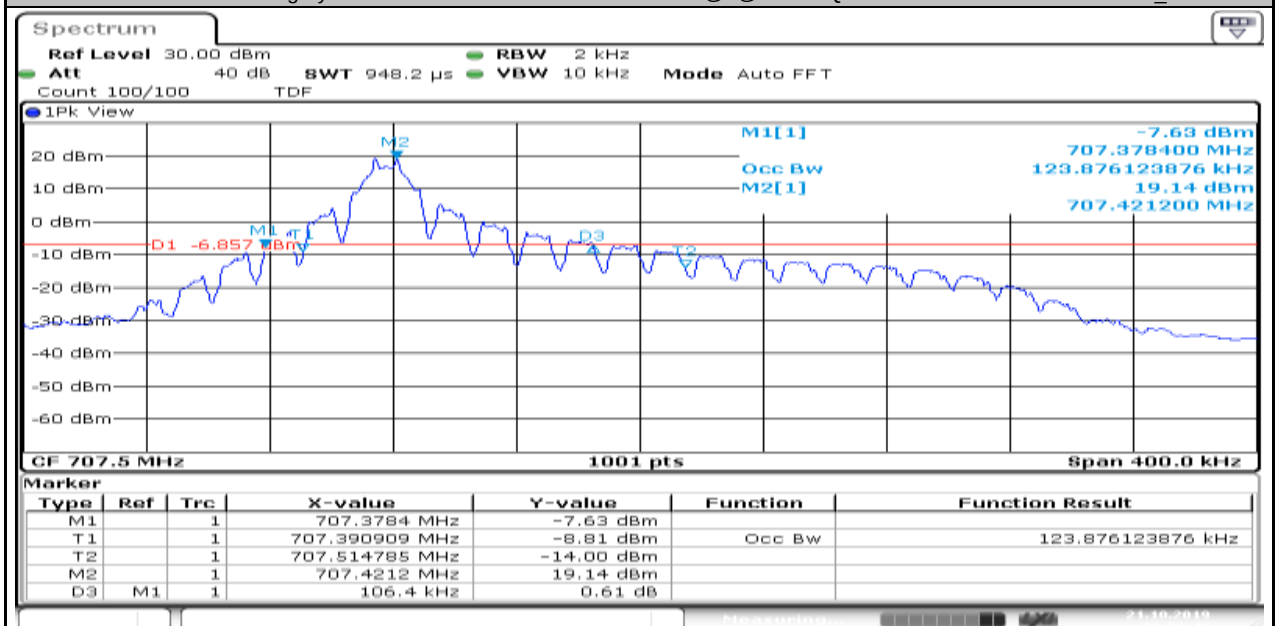


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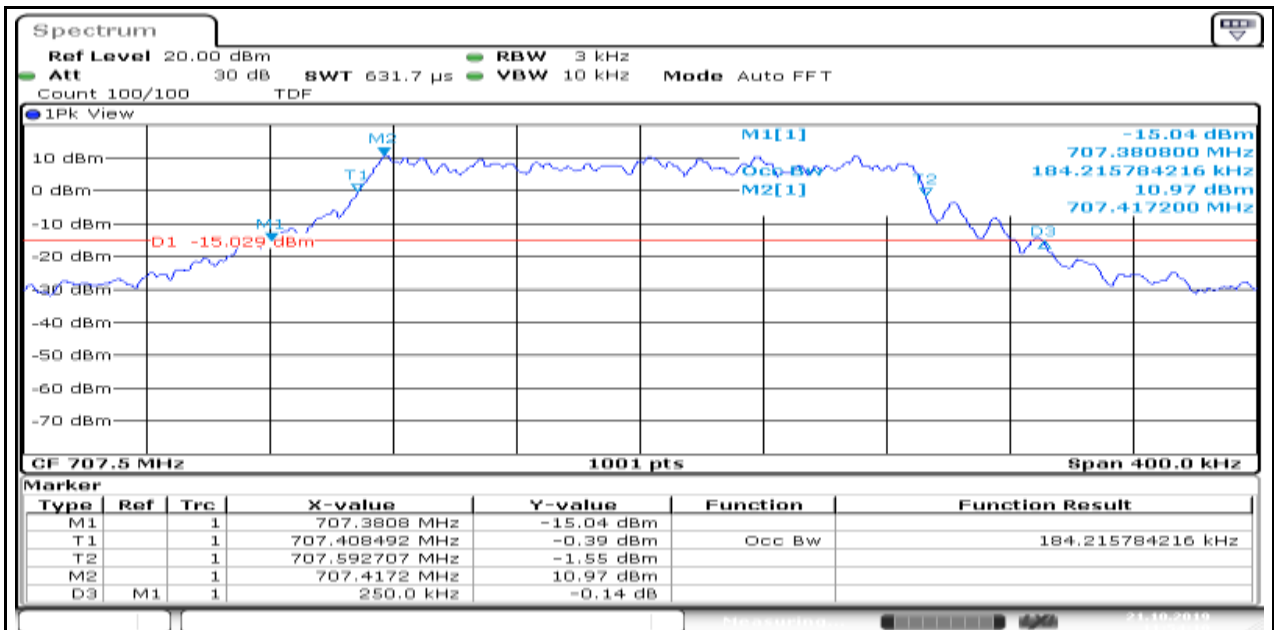
Date: 21.OCT.2019 15:57:23

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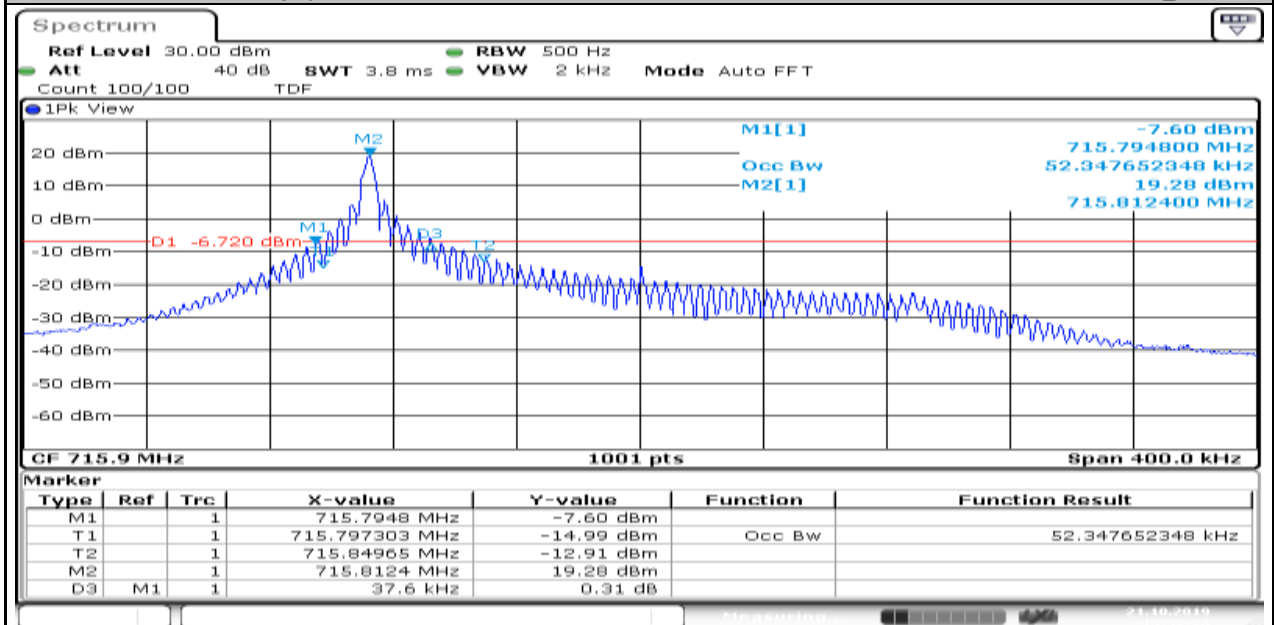


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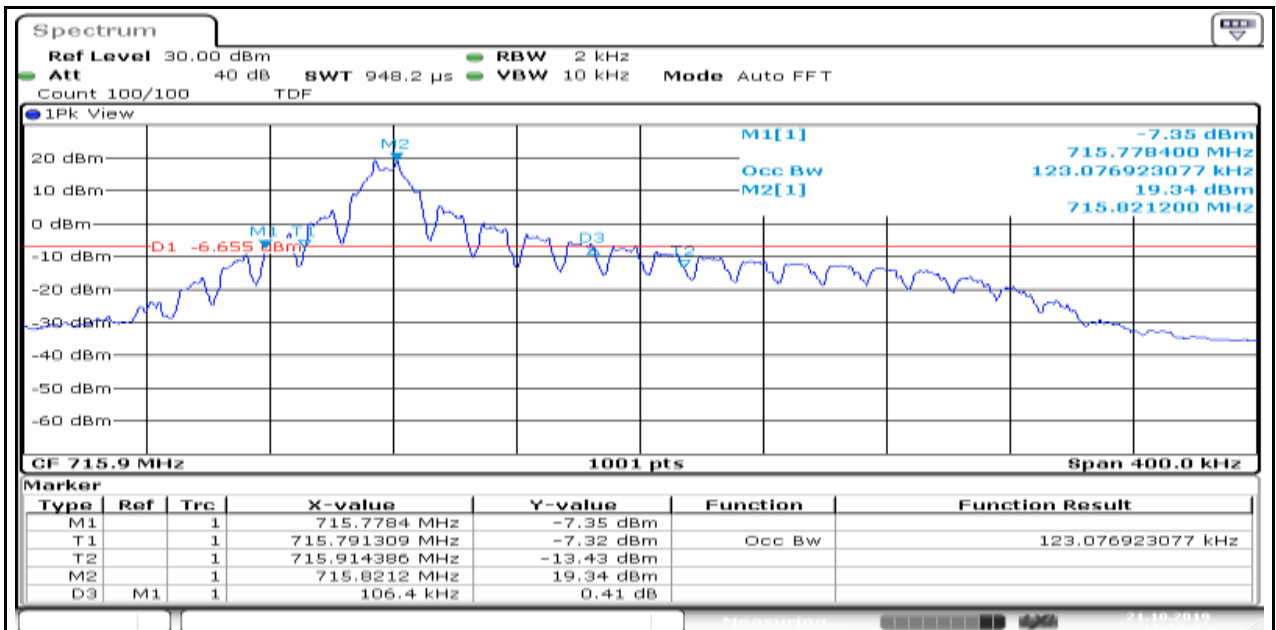
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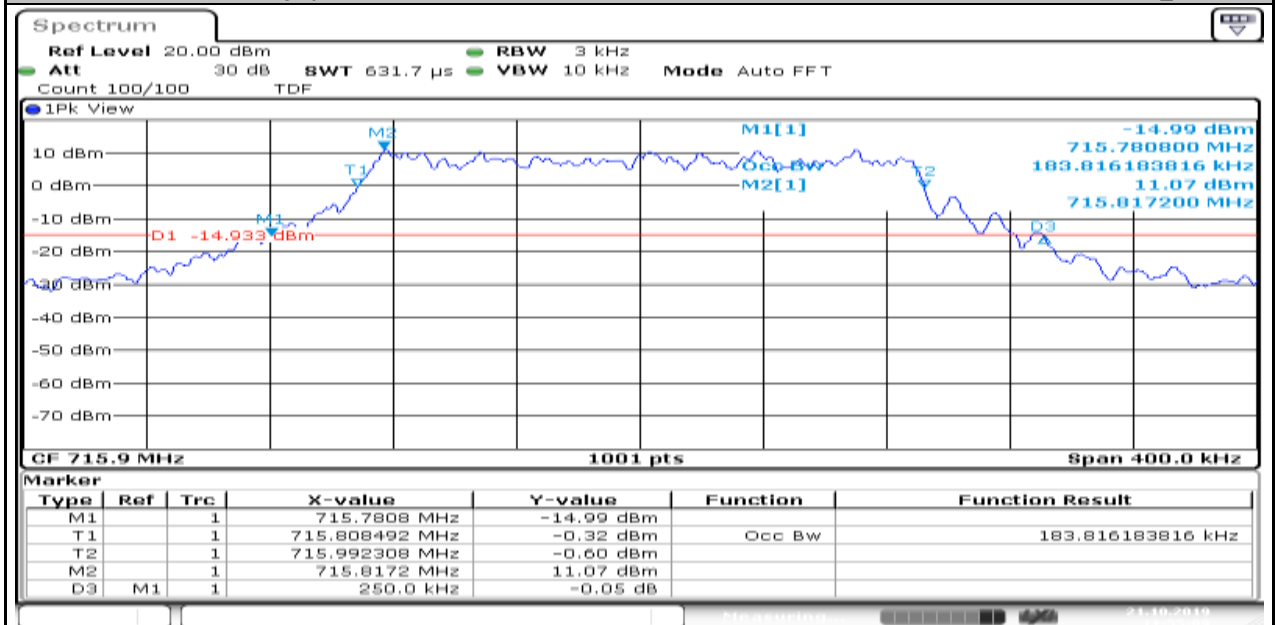
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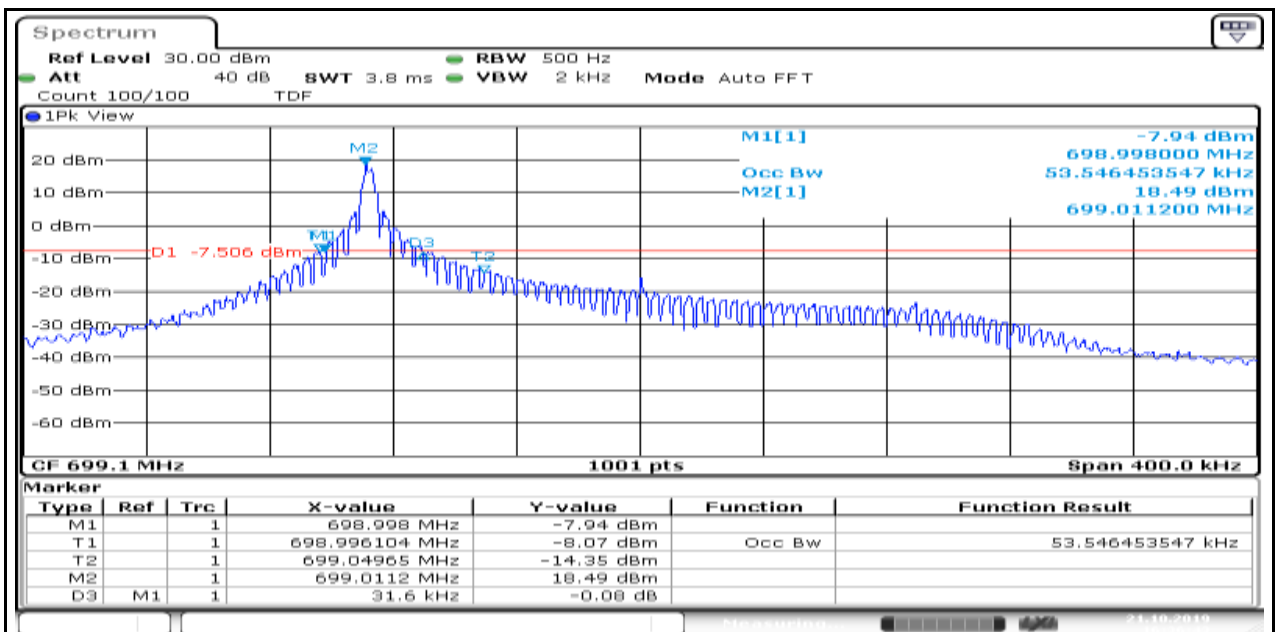


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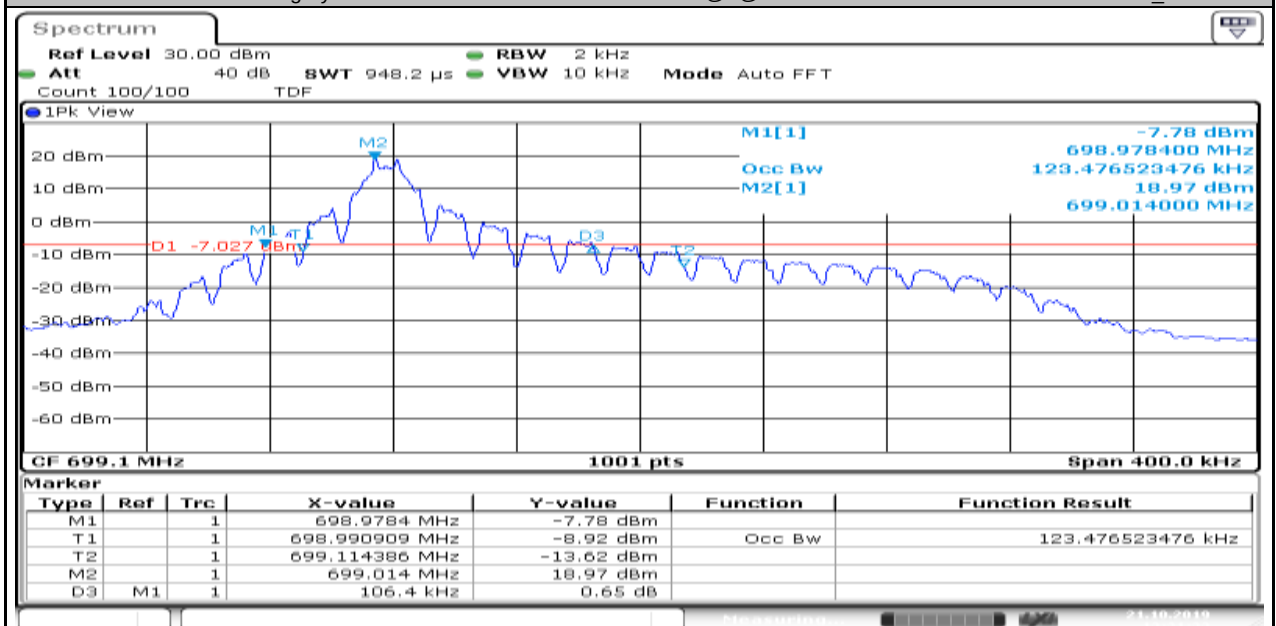
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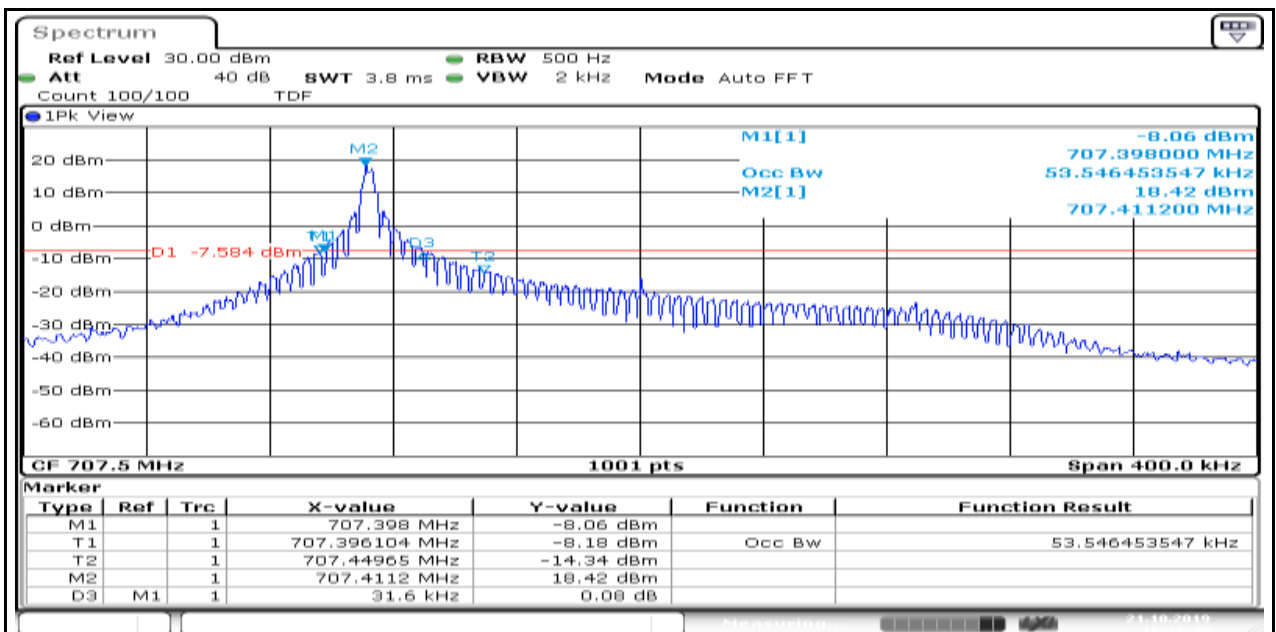
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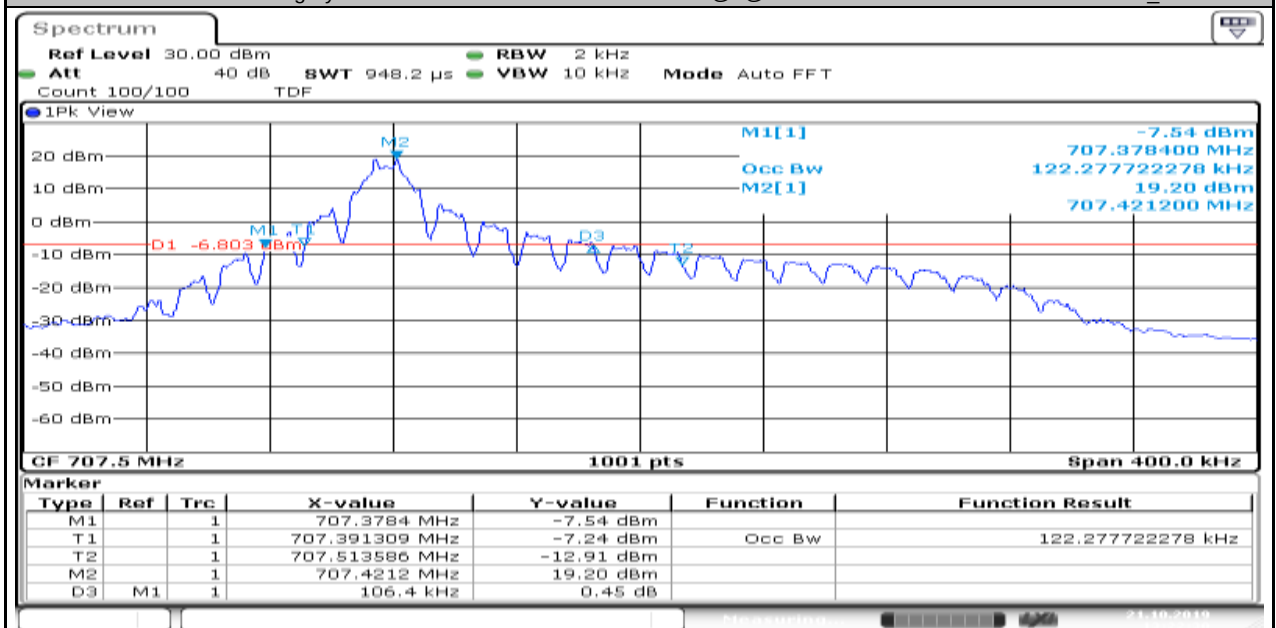


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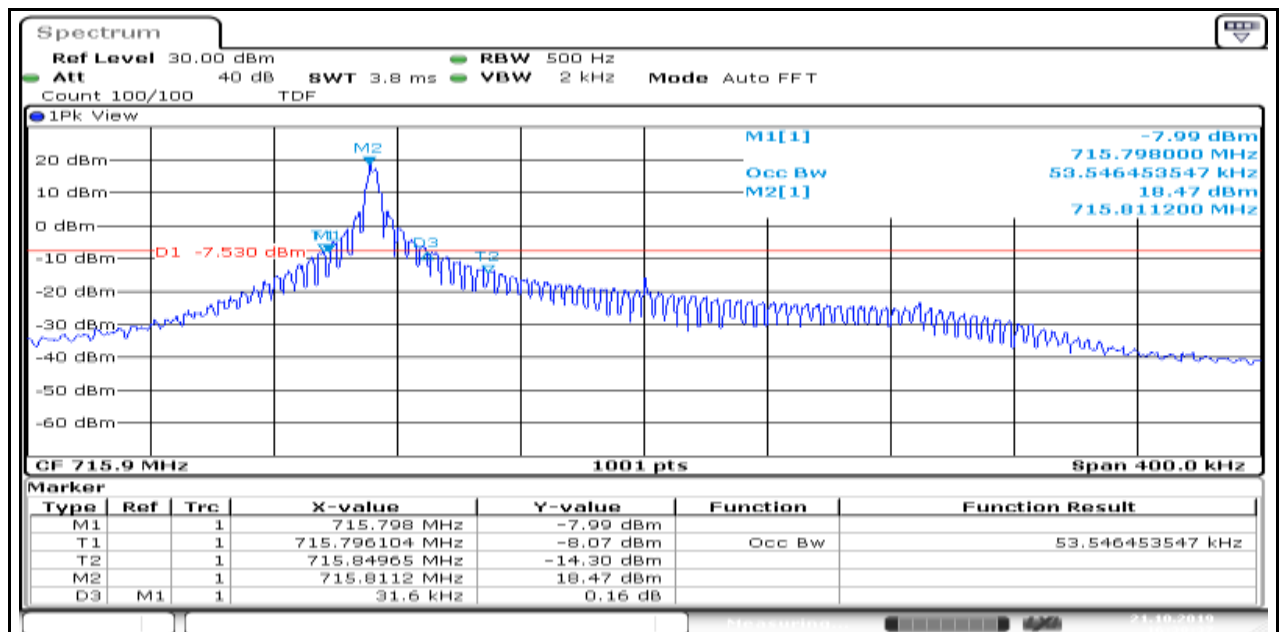
Band12_Stand-Alone_NaN_BPSK_23095_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band12\Occupied and emission bandwidth for category NB-Band12-Stand-Alone-NaN-23095-1@0@3.75kHz-BPSK-NTNV-20191021152918.Gif_



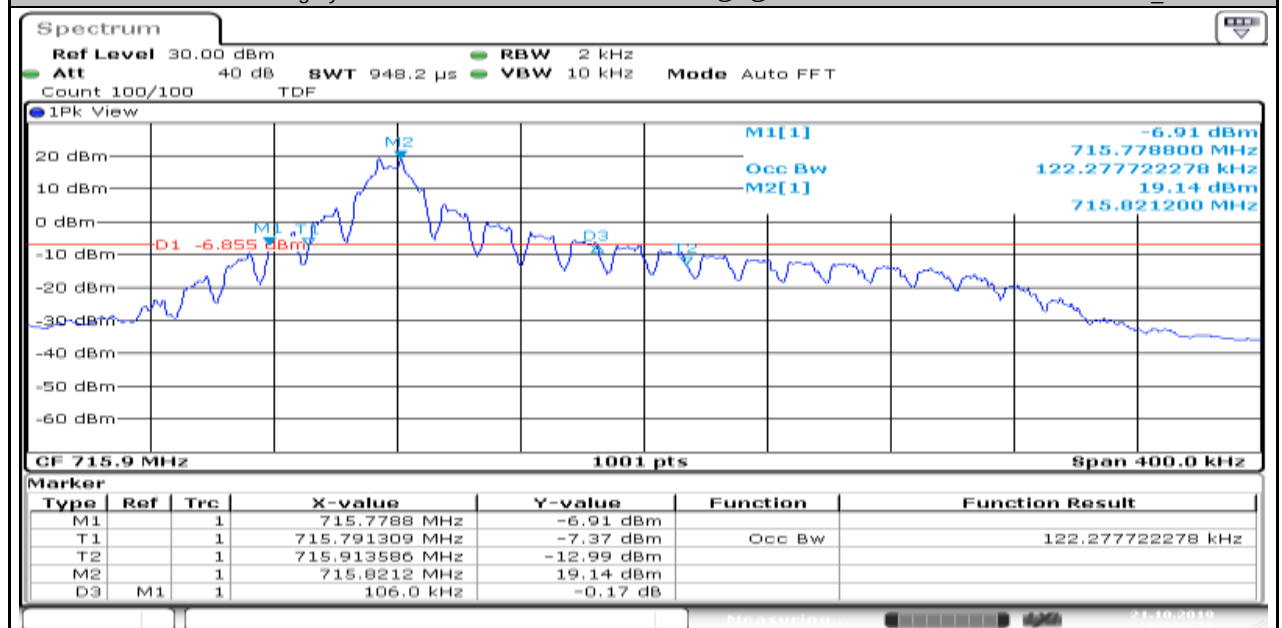
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Band12_Stand-Alone_NaN_BPSK_23179_1@0_3.75kHz_0.032_PASS_FCC_NB_EBW\EBW\Band12\Occupied and emission bandwidth for category NB-Band12-Stand-Alone-NaN-23179-1@0@3.75kHz-BPSK-NTNV-20191021153015.Gif_



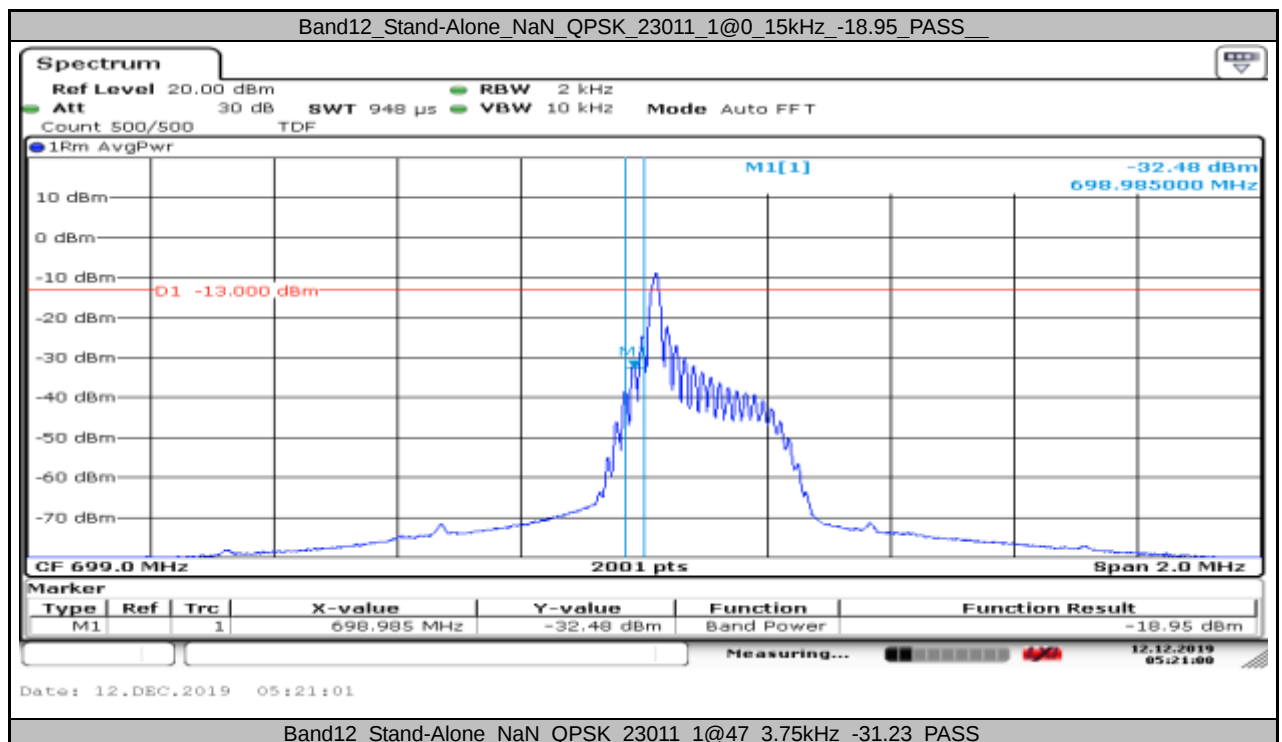
Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_0.106_PASS_FCC_NB_EBW\EBW\Band12\Occupied and emission bandwidth for category NB-Band12-Stand-Alone-NaN-23179-1@0@15kHz-BPSK-NTNV-2019102112156.Gif_

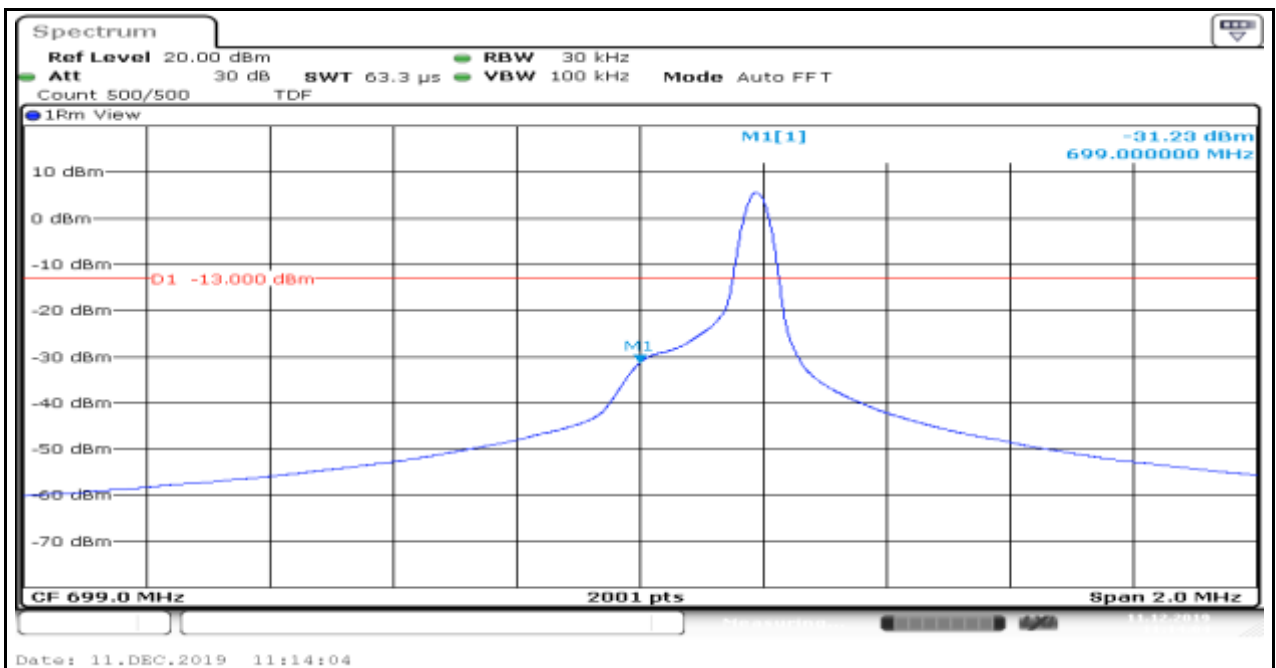


Appendix D.4: Band Edge for NB Test Result

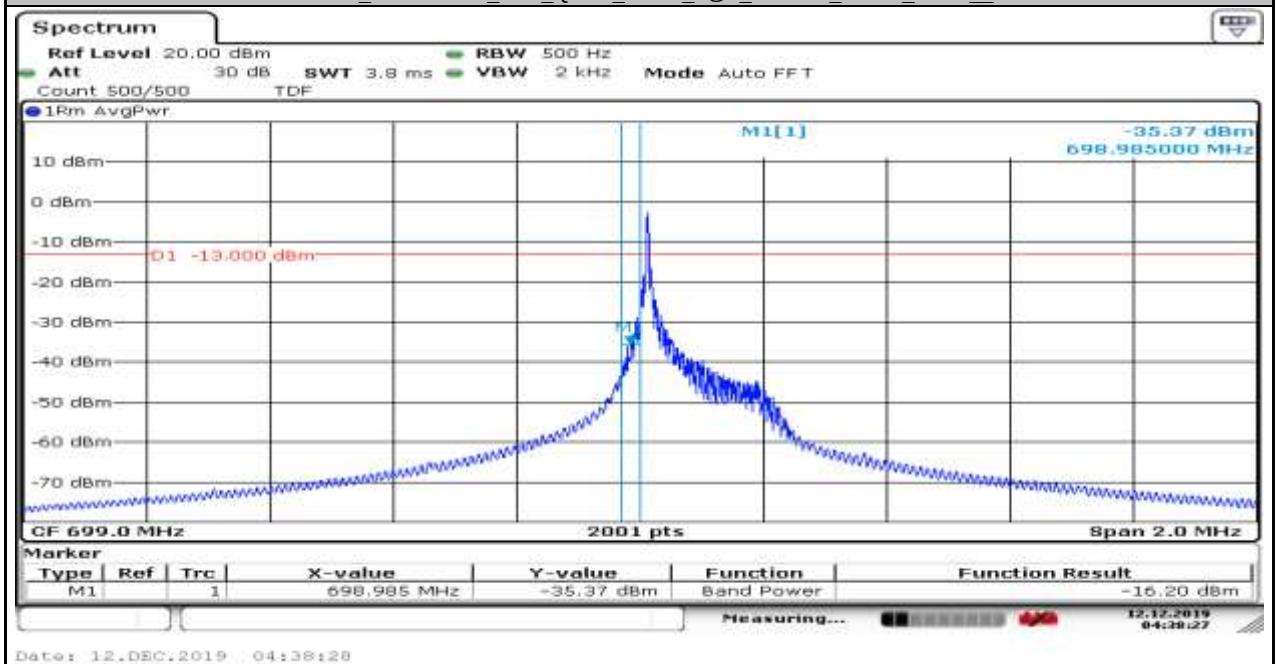
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Result (dBm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	1@0	15kHz	-18.95	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	-31.23	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	-16.20	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	-20.42	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@11	15kHz	-28.12	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	-31.46	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@11	15kHz	-16.98	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	-16.20	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	-19.96	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	15kHz	-27.68	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@47	3.75kHz	-30.12	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	-17.15	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	-26.45	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	3.75kHz	-14.90	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@47	3.75kHz	-15.05	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	-15.26	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	3.75kHz	-29.56	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	-26.67	PASS

Test Graphs

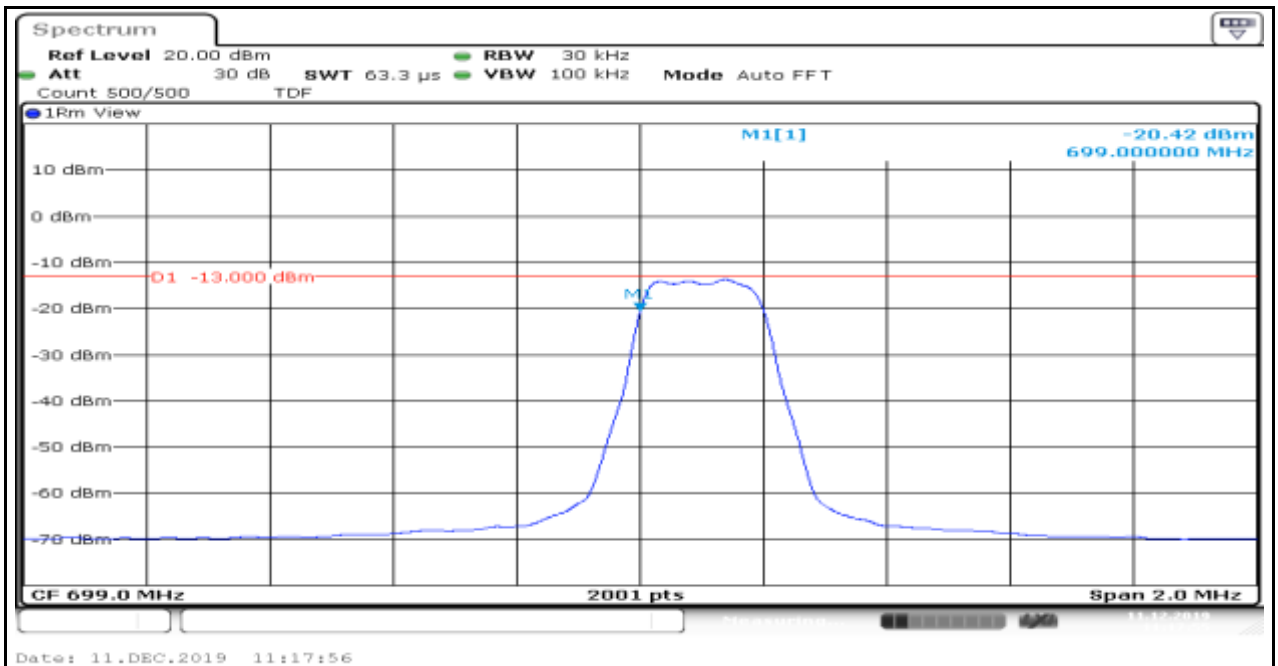




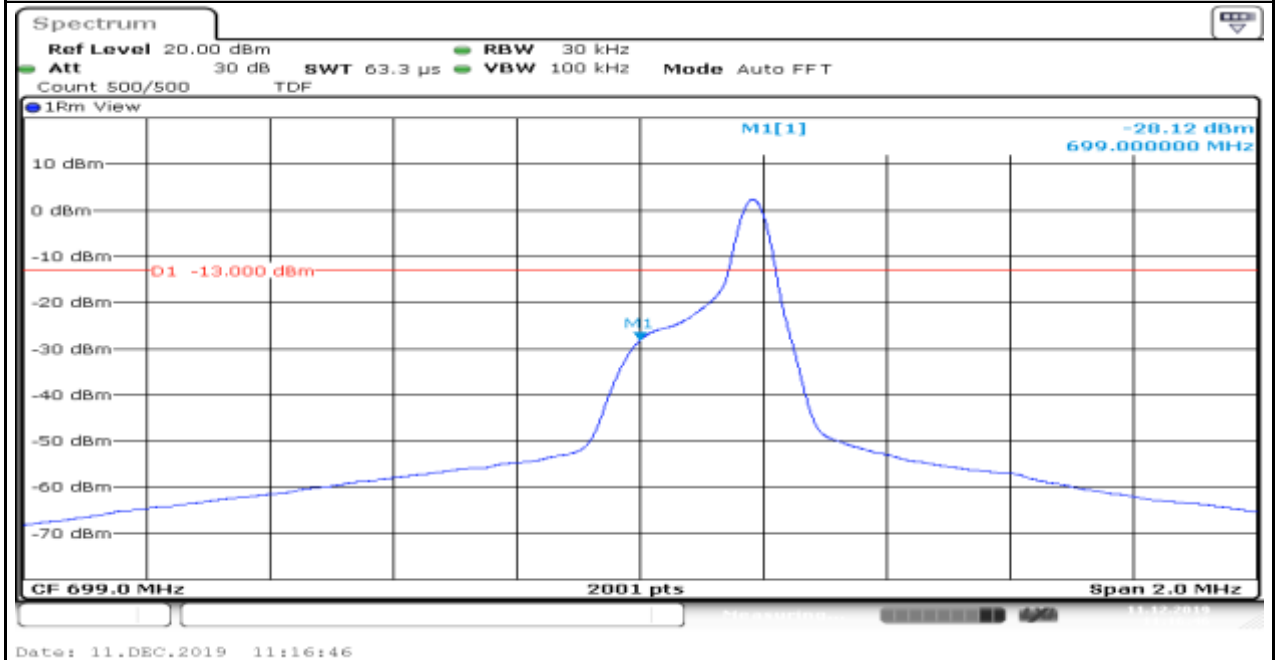
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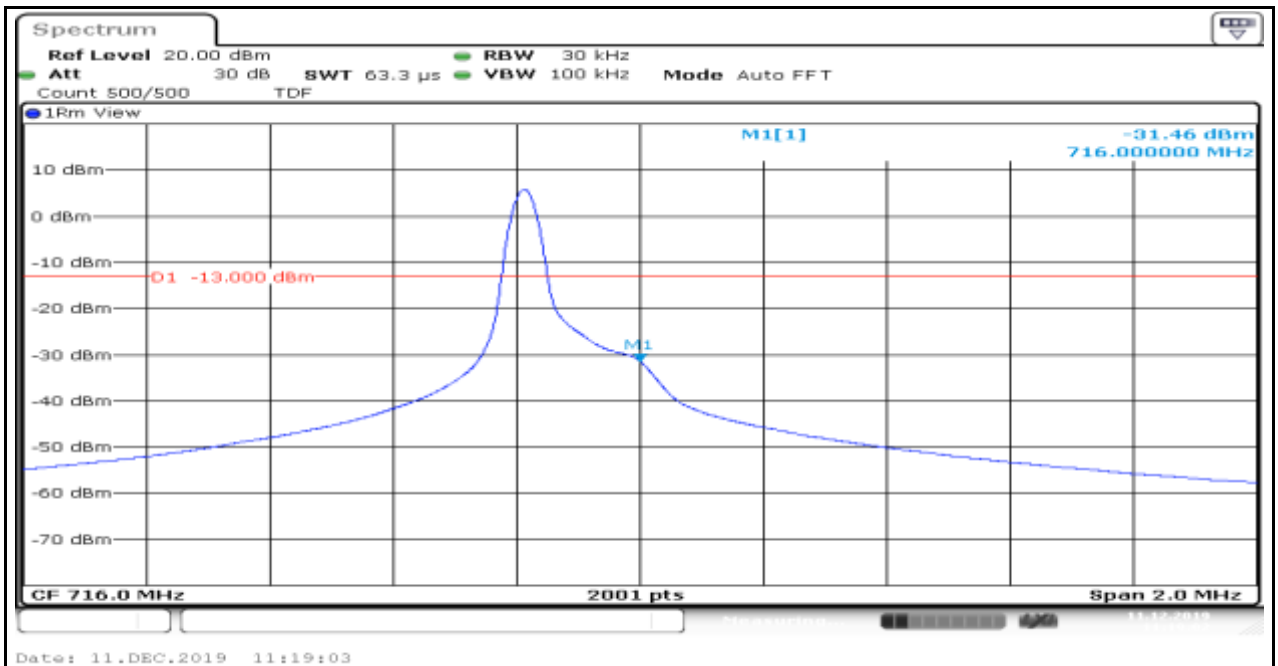
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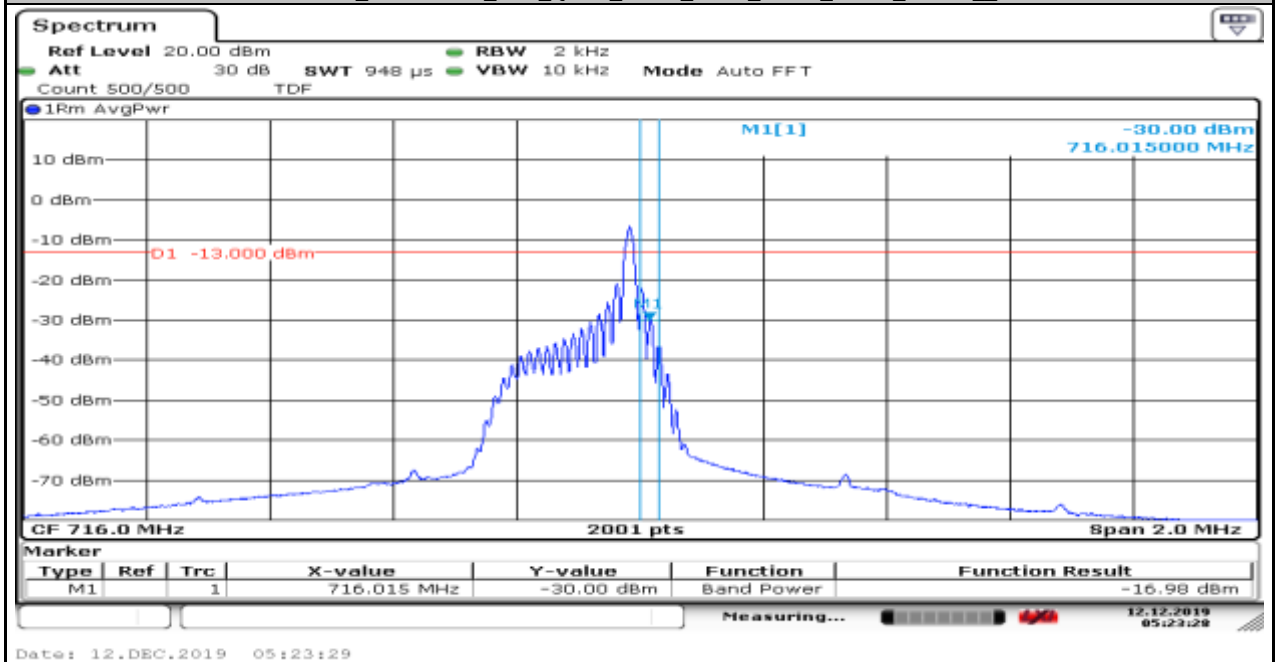
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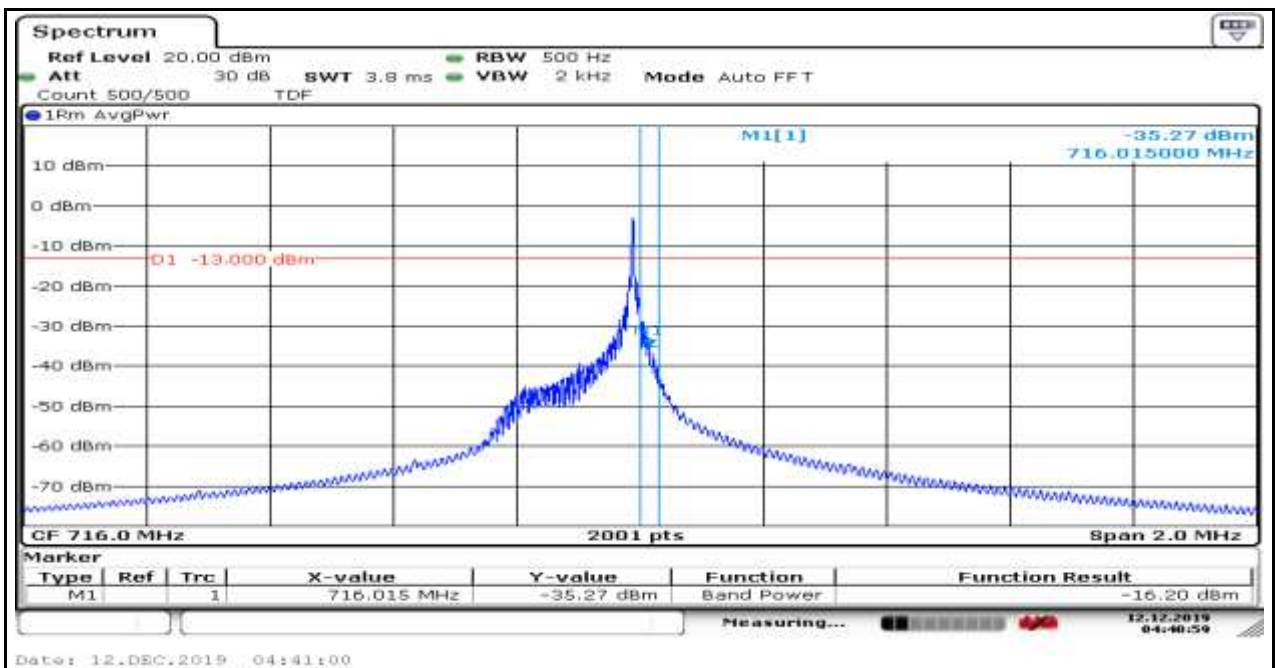
Band12_Stand-Alone_NaN_QPSK_23179_1@0_3.75kHz_-31.46_PASS_



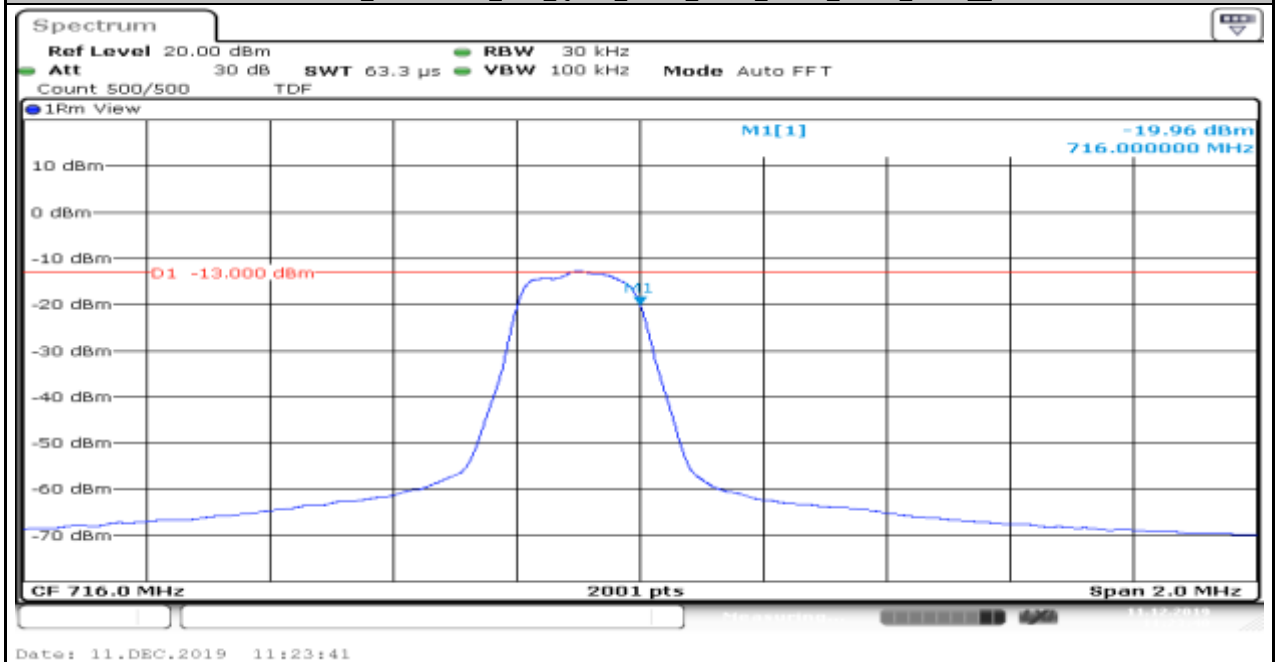
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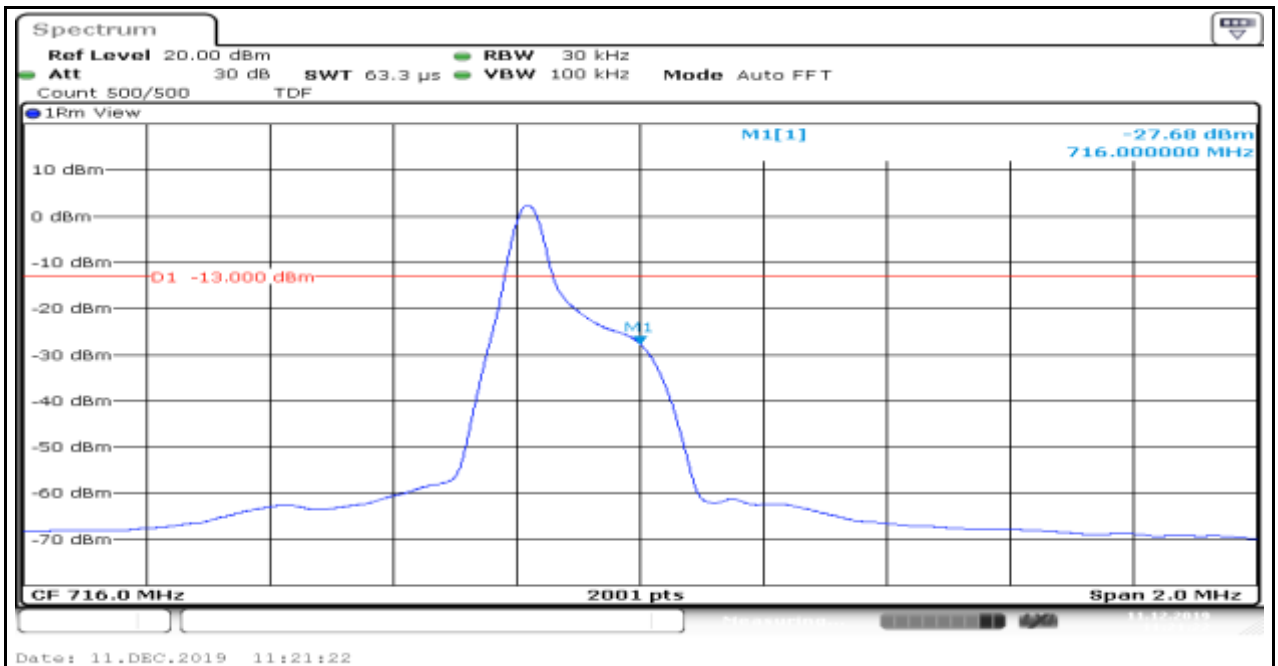
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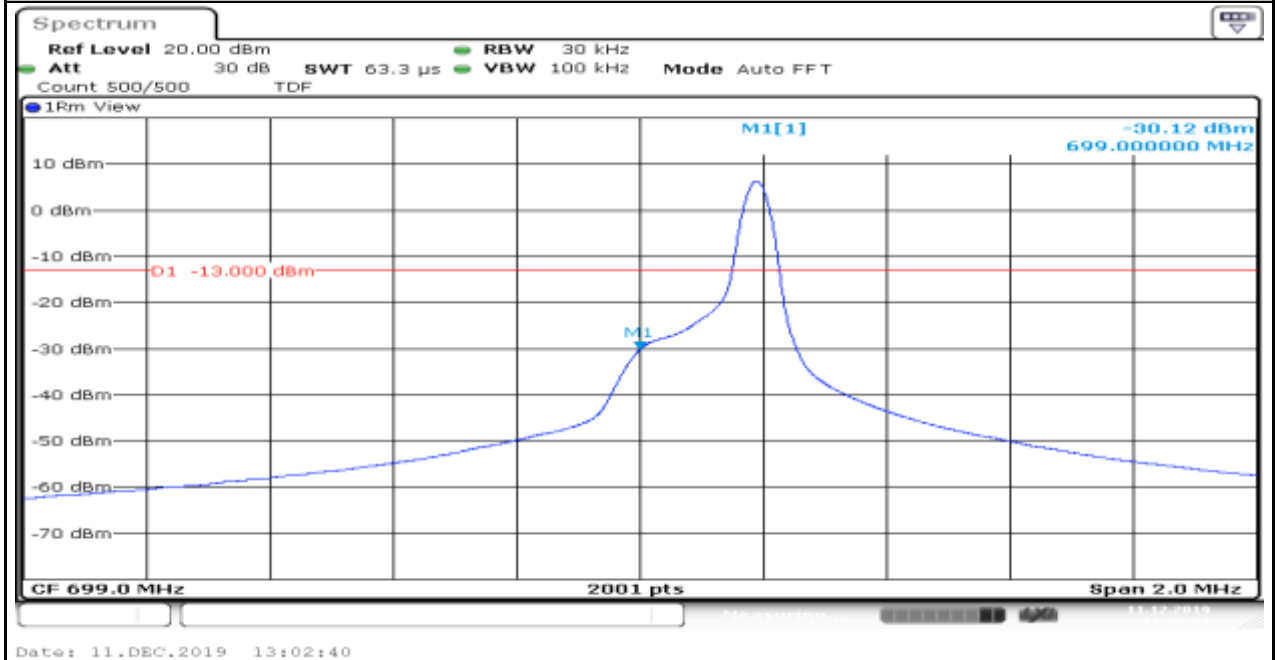
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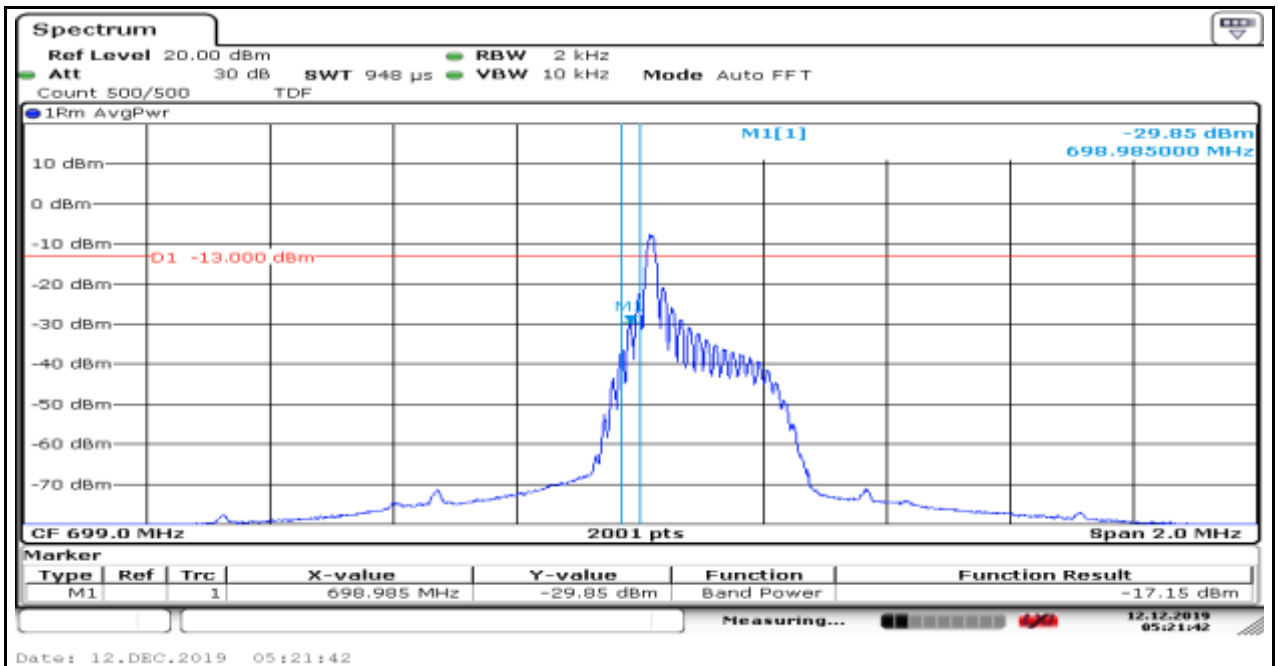
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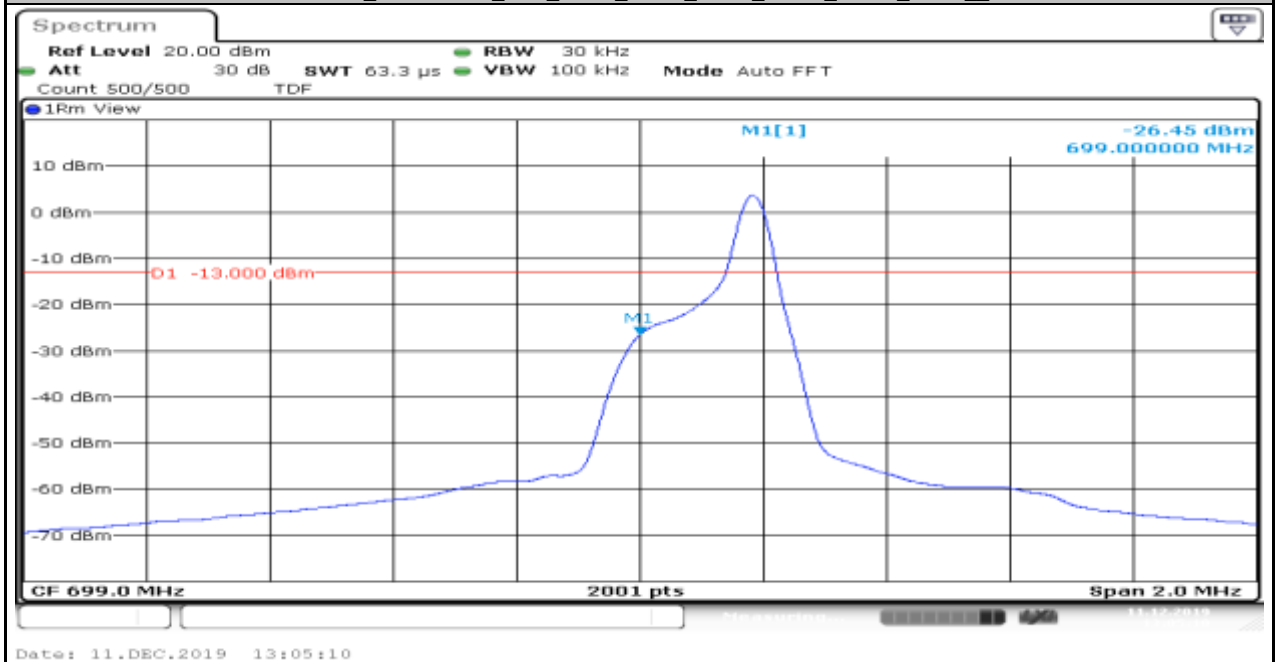
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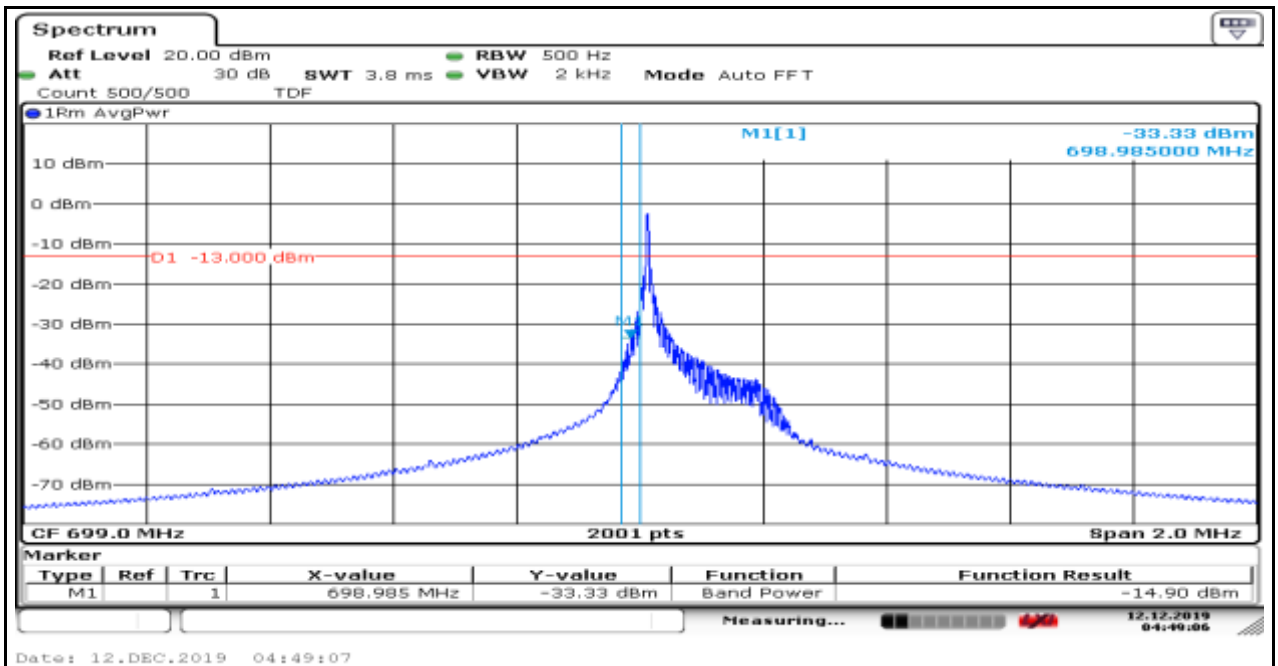
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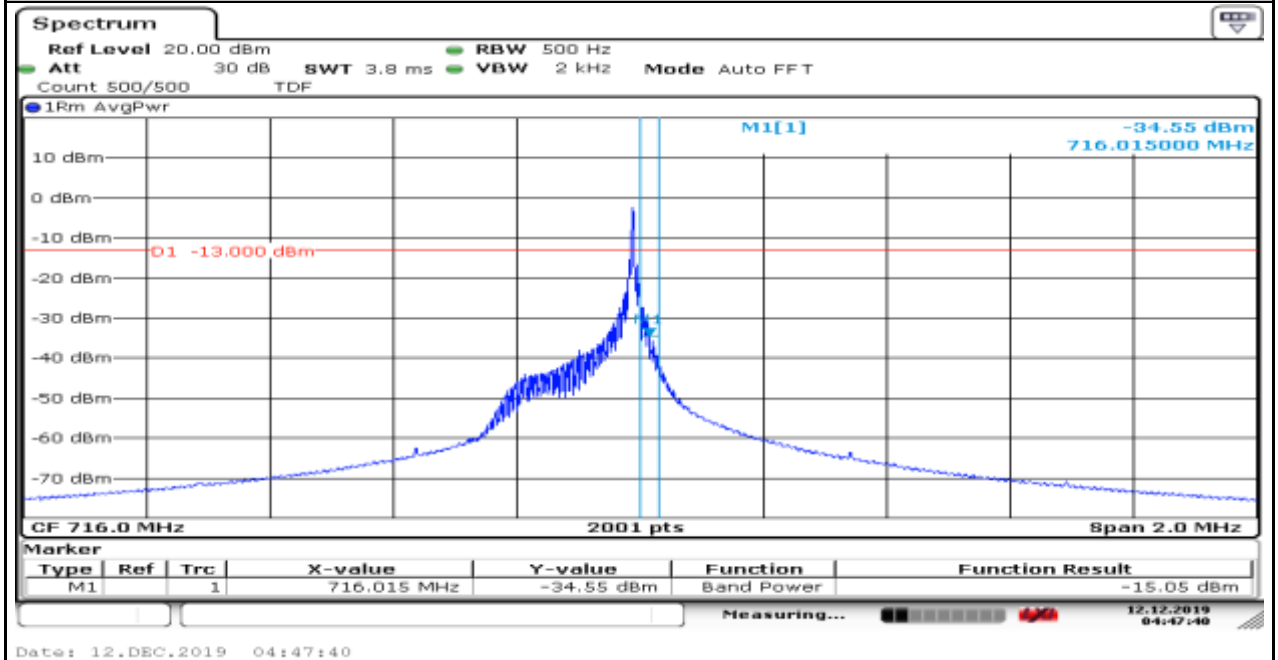
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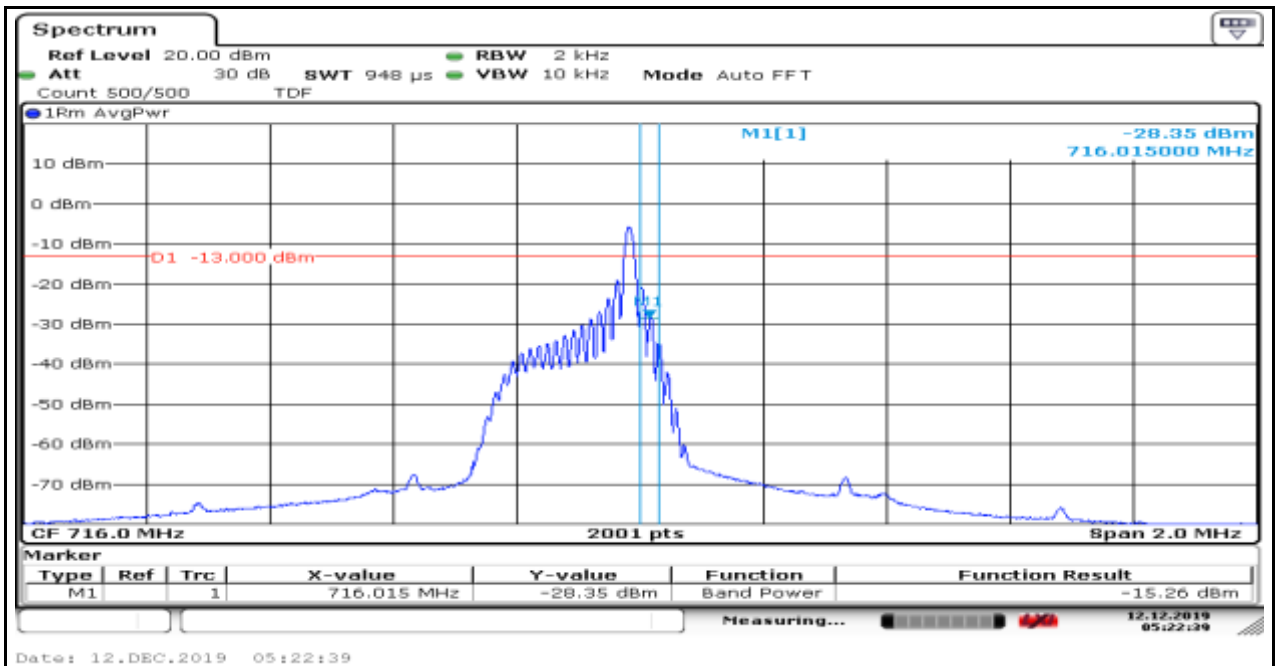
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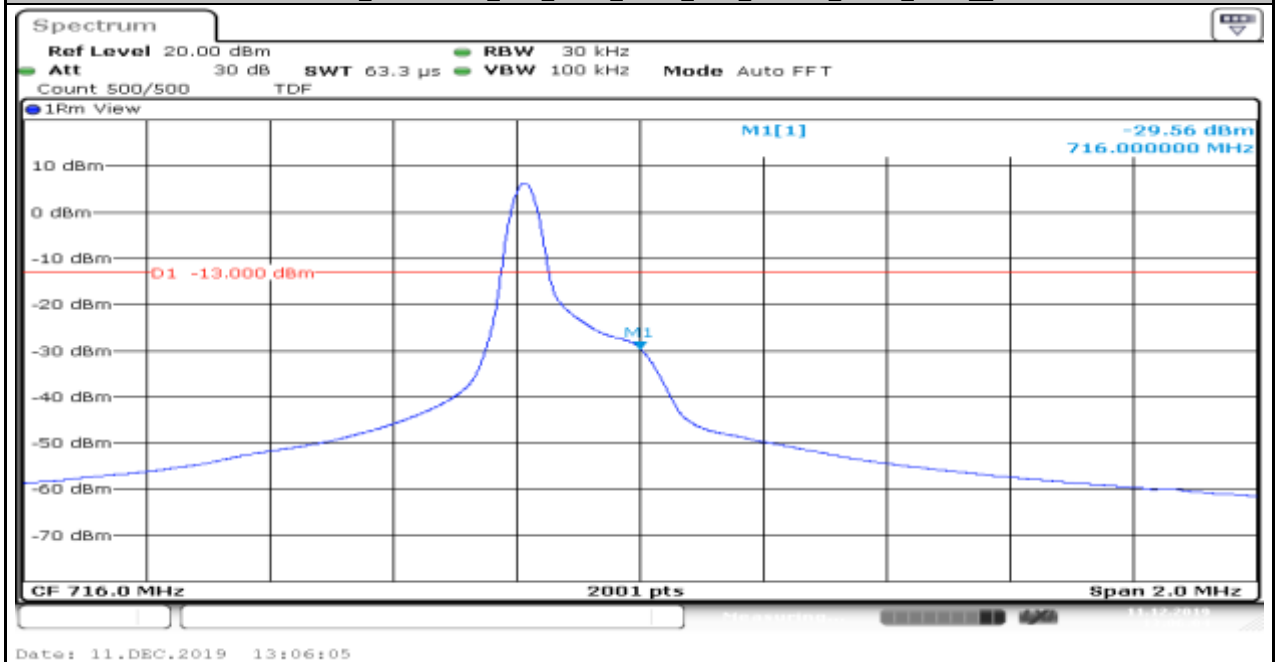
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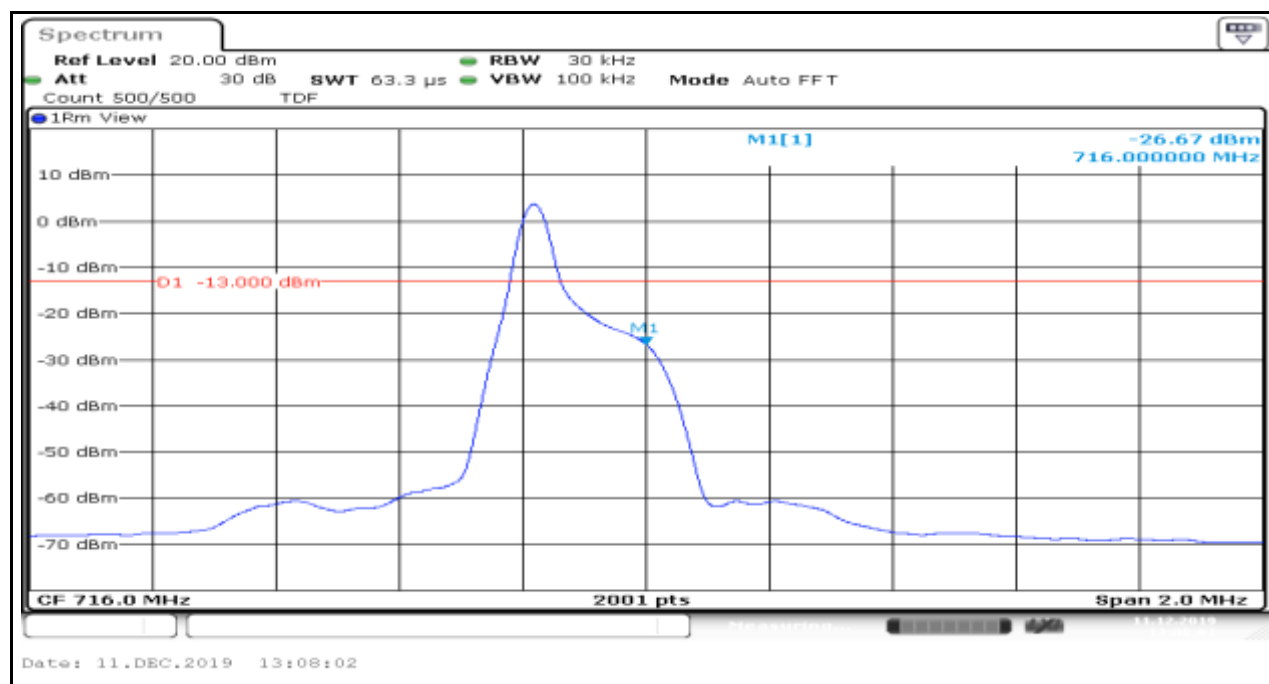
Band12_Stand-Alone_NaN_BPSK_23179_1@11_15kHz_-15.26_PASS_



Band12_Stand-Alone_NaN_BPSK_23179_1@0_3.75kHz_-29.56_PASS_



Band12_Stand-Alone_NaN_BPSK_23179_1@0_15kHz_-26.67_PASS_



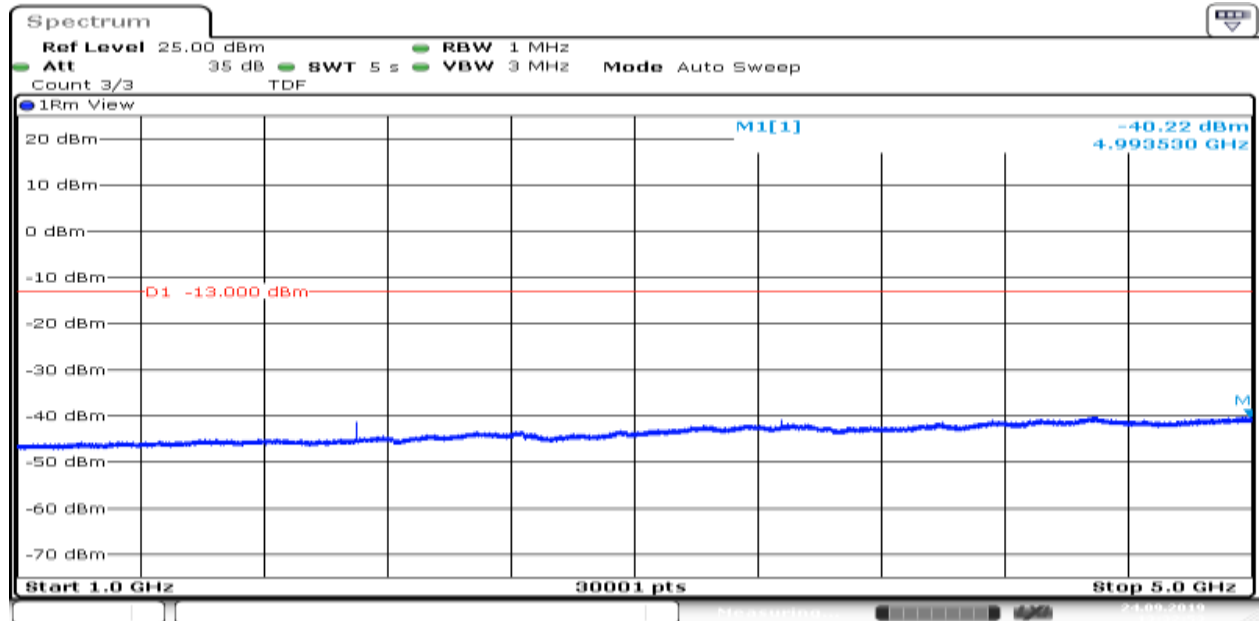
Appendix D.5: Conducted Spurious Emission for NB Test Result

Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	1000	5000	1000-5000MHz@-40.22dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	5000	12000	5000-12000MHz@-51.08dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	30	1000	30-1000MHz@-33.53dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	30	1000	30-1000MHz@-36.86dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	1000	5000	1000-5000MHz@-40.15dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	5000	12000	5000-12000MHz@-51.16dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.81dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	30	1000	30-1000MHz@-36.75dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	1000	5000	1000-5000MHz@-40.22dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	5000	12000	5000-12000MHz@-51.05dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.74dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23011	12@0	15kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.85dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	5000	12000	5000-12000MHz@-51.08dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	1000	5000	1000-5000MHz@-40.28dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@0	3.75kHz	30	1000	30-1000MHz@-36.99dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	1000	5000	1000-5000MHz@-40.19dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	5000	12000	5000-12000MHz@-51.15dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.84dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	30	1000	30-1000MHz@-33.41dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	1@47	3.75kHz	30	1000	30-1000MHz@-37.05dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	1000	5000	1000-5000MHz@-40.21dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	12000	26500	12000-26500MHz@-45.7dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23095	12@0	15kHz	5000	12000	5000-12000MHz@-50.72dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	12000	26500	12000-26500MHz@-45.71dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	30	1000	30-1000MHz@-33.48dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	12000	26500	12000-26500MHz@-45.8dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	5000	12000	5000-12000MHz@-51.03dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	12@0	15kHz	1000	5000	1000-5000MHz@-40.25dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	5000	12000	5000-12000MHz@-51.05dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	1000	5000	1000-5000MHz@-40.32dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@47	3.75kHz	30	1000	30-1000MHz@-36.62dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	12000	26500	12000-26500MHz@-45.58dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	5000	12000	5000-12000MHz@-51.09dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	1000	5000	1000-5000MHz@-40.27dBm	-13	PASS
Band12	Stand-Alone	NaN	QPSK	23179	1@0	3.75kHz	30	1000	30-1000MHz@-36.55dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	30	1000	30-1000MHz@-35.5dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	1000	5000	1000-5000MHz@-40.3dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	30	1000	30-1000MHz@-35.74dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	12000	26500	12000-26500MHz@-45.94dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	12000	26500	12000-26500MHz@-45.88dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	5000	12000	5000-12000MHz@-51.15dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@11	15kHz	1000	5000	1000-5000MHz@-40.16dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23011	1@0	15kHz	5000	12000	5000-12000MHz@-51.05dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	30	1000	30-1000MHz@-34.89dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	1000	5000	1000-5000MHz@-40.19dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	5000	12000	5000-12000MHz@-50.93dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@0	15kHz	12000	26500	12000-26500MHz@-45.68dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	30	1000	30-1000MHz@-34.64dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	1000	5000	1000-5000MHz@-40.33dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	12000	26500	12000-26500MHz@-45.9dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23095	1@11	15kHz	5000	12000	5000-12000MHz@-51.09dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	5000	12000	5000-12000MHz@-51.12dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	1000	5000	1000-5000MHz@-40.33dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	12000	26500	12000-26500MHz@-45.89dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	30	1000	30-1000MHz@-35.33dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	1000	5000	1000-5000MHz@-40.17dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	5000	12000	5000-12000MHz@-51.15dBm	-13	PASS

Band12	Stand-Alone	NaN	BPSK	23179	1@11	15kHz	12000	26500	12000-26500MHz@-45.67dBm	-13	PASS
Band12	Stand-Alone	NaN	BPSK	23179	1@0	15kHz	30	1000	30-1000MHz@-35.39dBm	-13	PASS

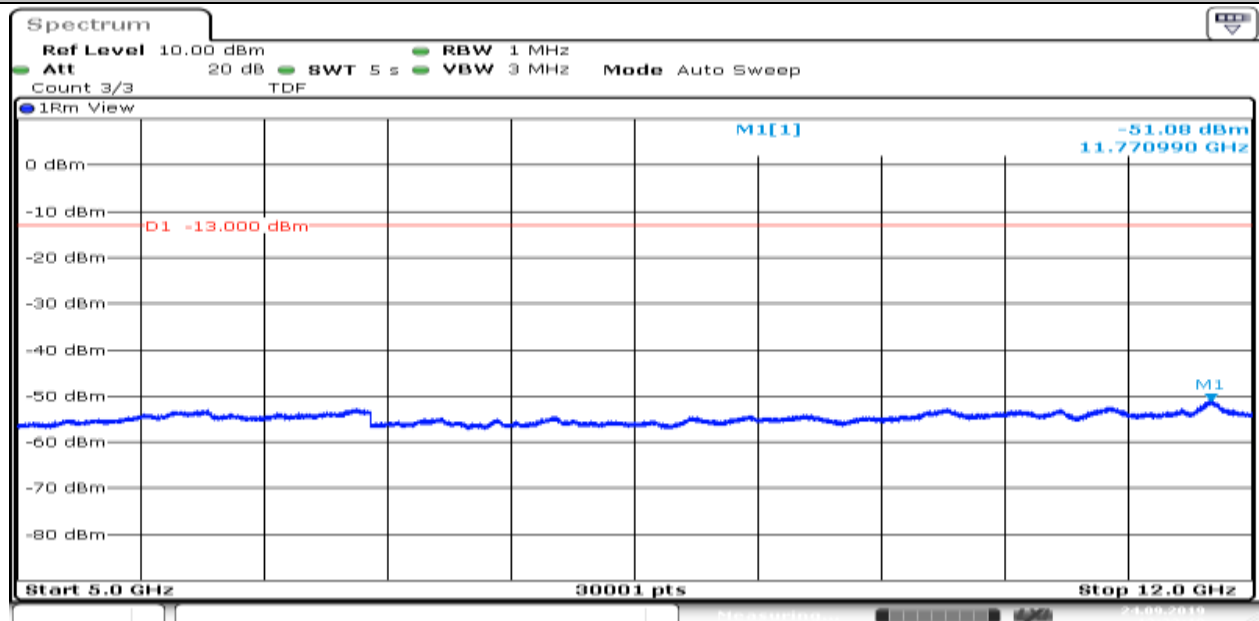
Test Graphs

Band12_Stand-Alone_NaN_QPSK_23011_12@0_15kHz_1000_5000_1000-5000MHz@-40.22dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23011-12@0@15kHz-QPSK-NTNV-2019924122446.Gif_



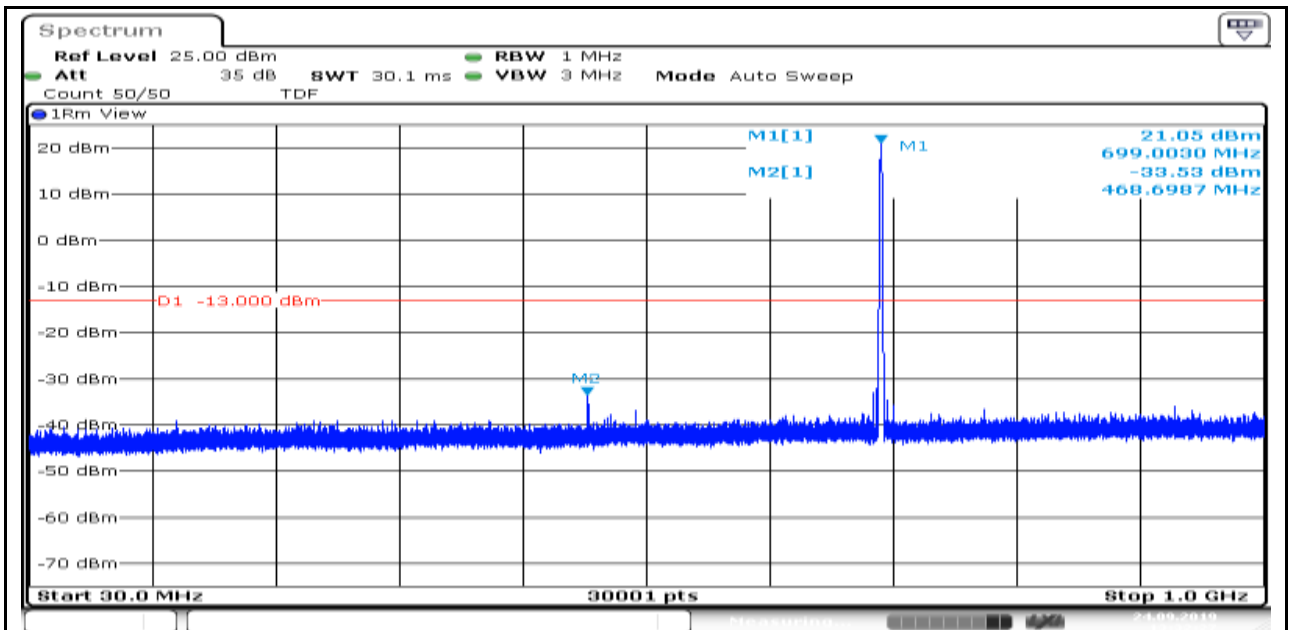
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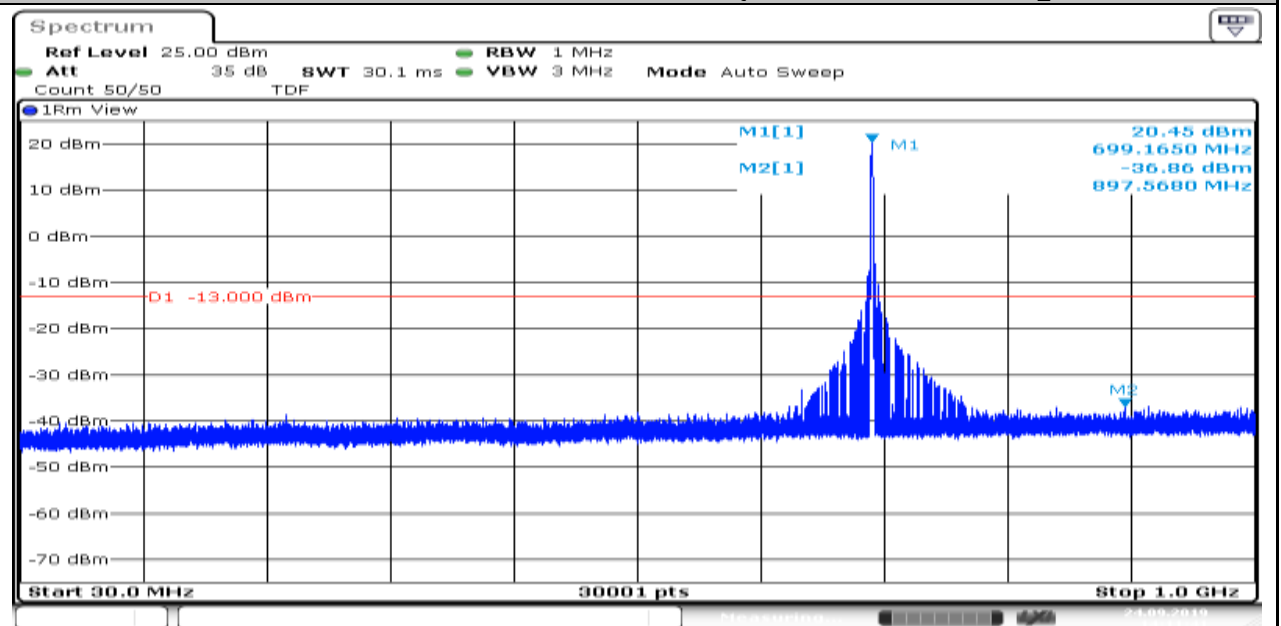


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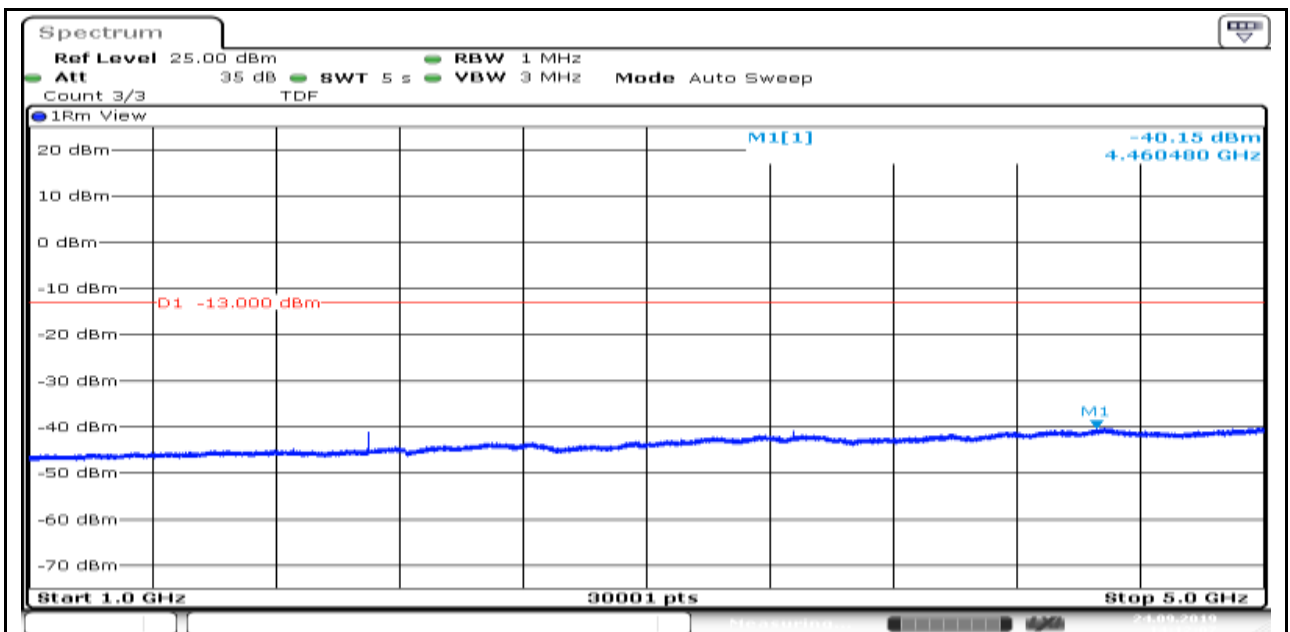
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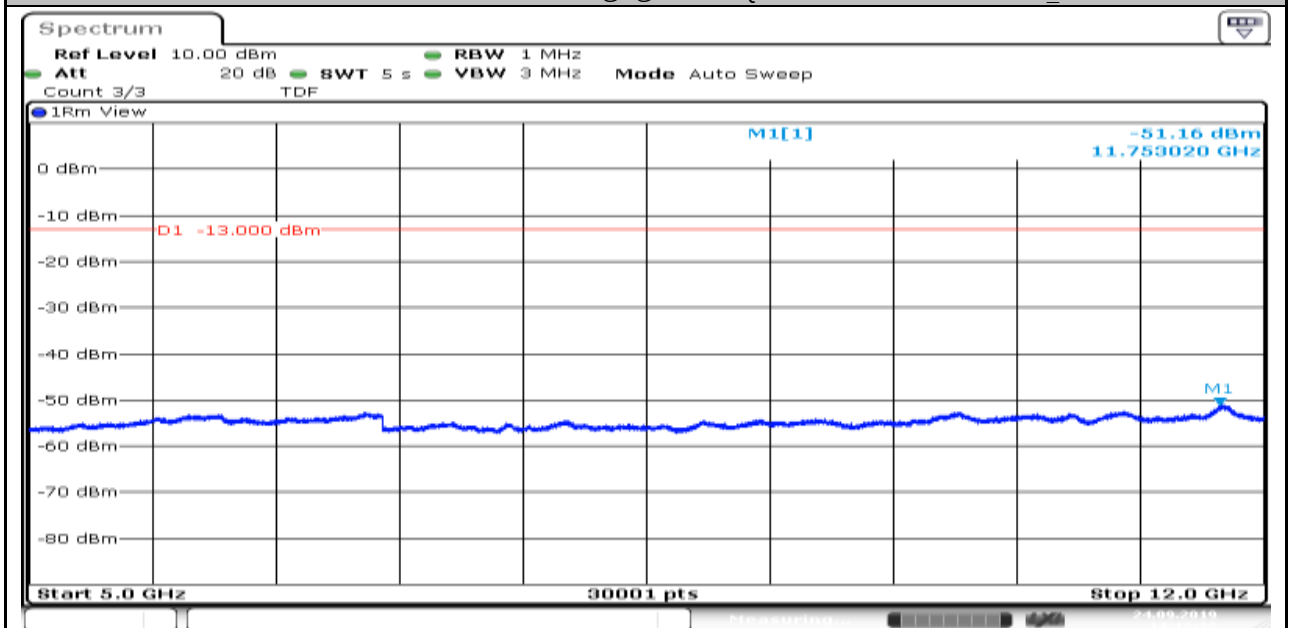
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BIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category
NB-Band12-Stand-Alone-NaN-23011-1@0@3.75kHz-QPSK-NTNV-201992413334.Gif_



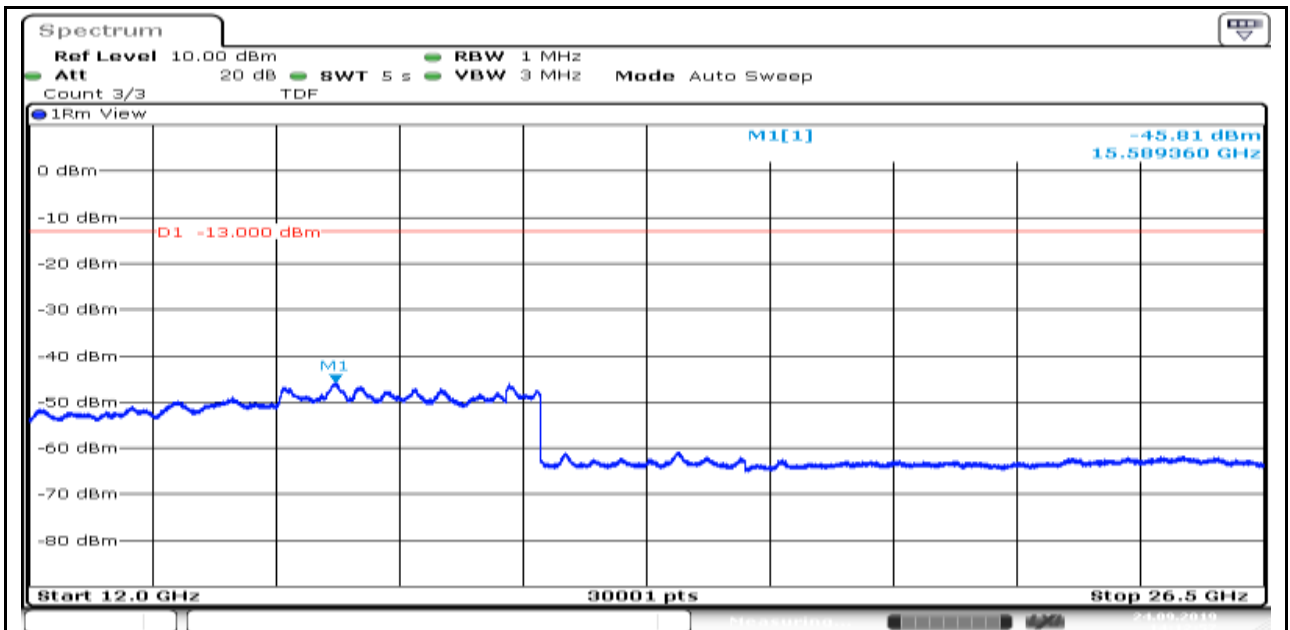
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BIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category
NB-Band12-Stand-Alone-NaN-23011-1@0@3.75kHz-QPSK-NTNV-20199241340.Gif_



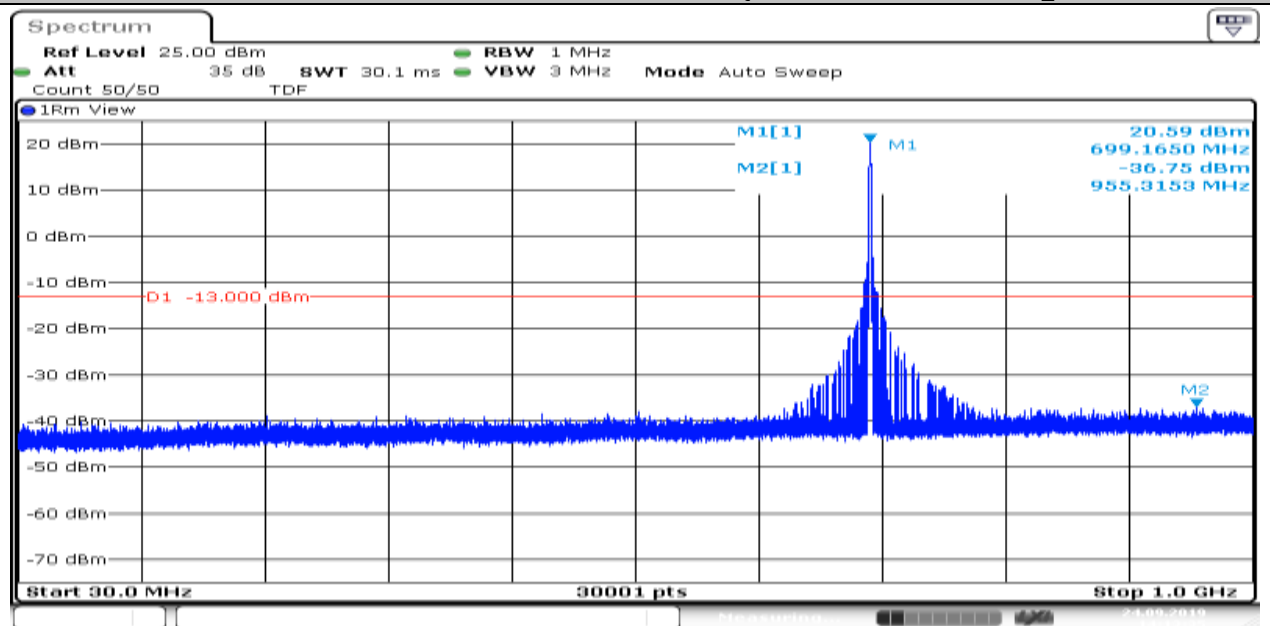
Band12_Stand-Alone_NaN_QPSK_23011_1@0_3.75kHz_5000_12000_5000~12000MHz@-51.16dBm_-13_PASS_FCC_ME910G1\FCC_NBIOT_eMTC_NVNT\Band12\Spurious emission at antenna terminals for category NB-Band12-Stand-Alone-NaN-23011-1@0@3.75kHz-QPSK-NTNV-201992413425.Gif_



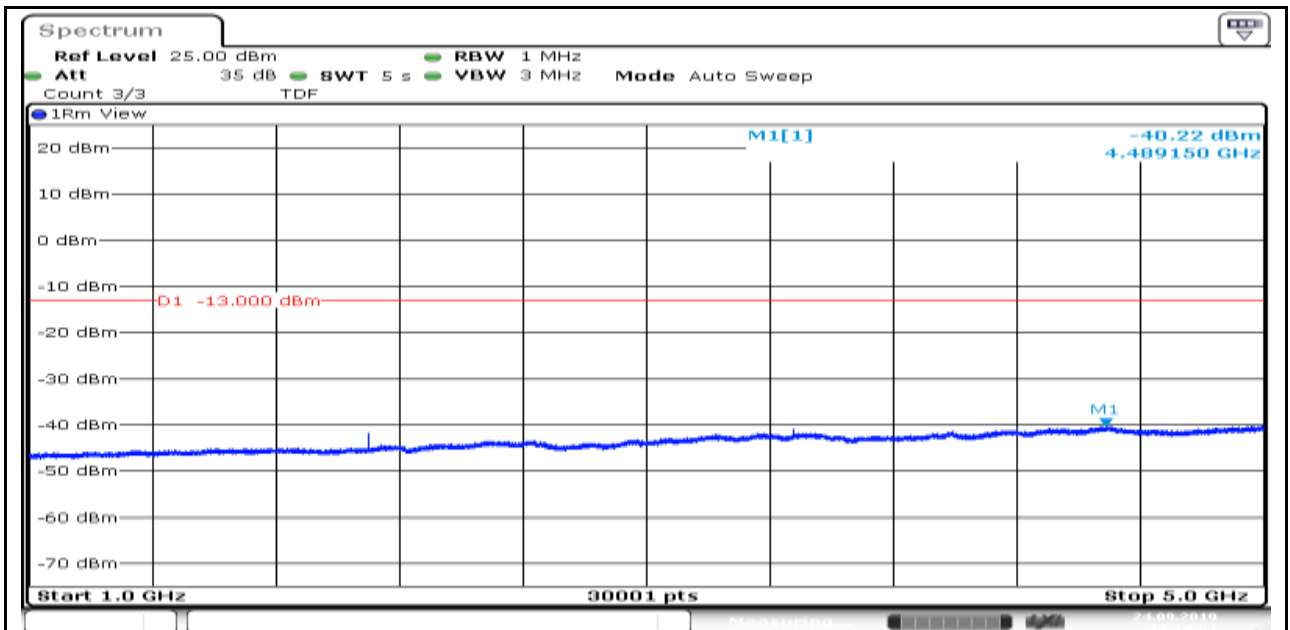
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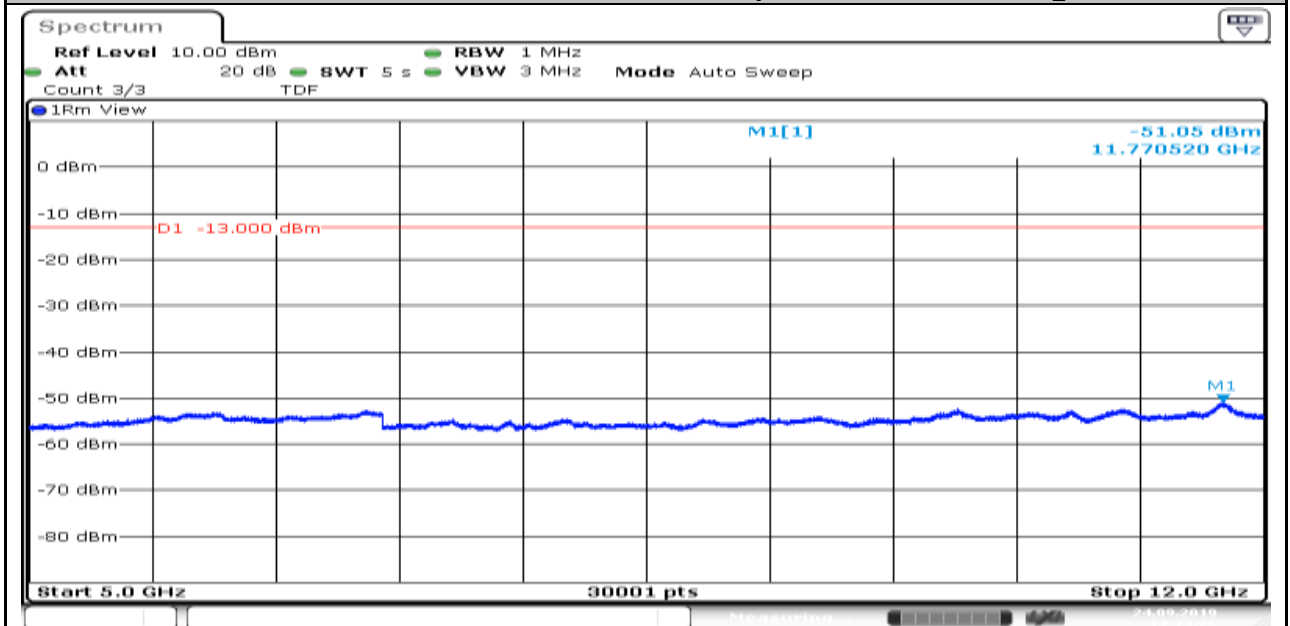
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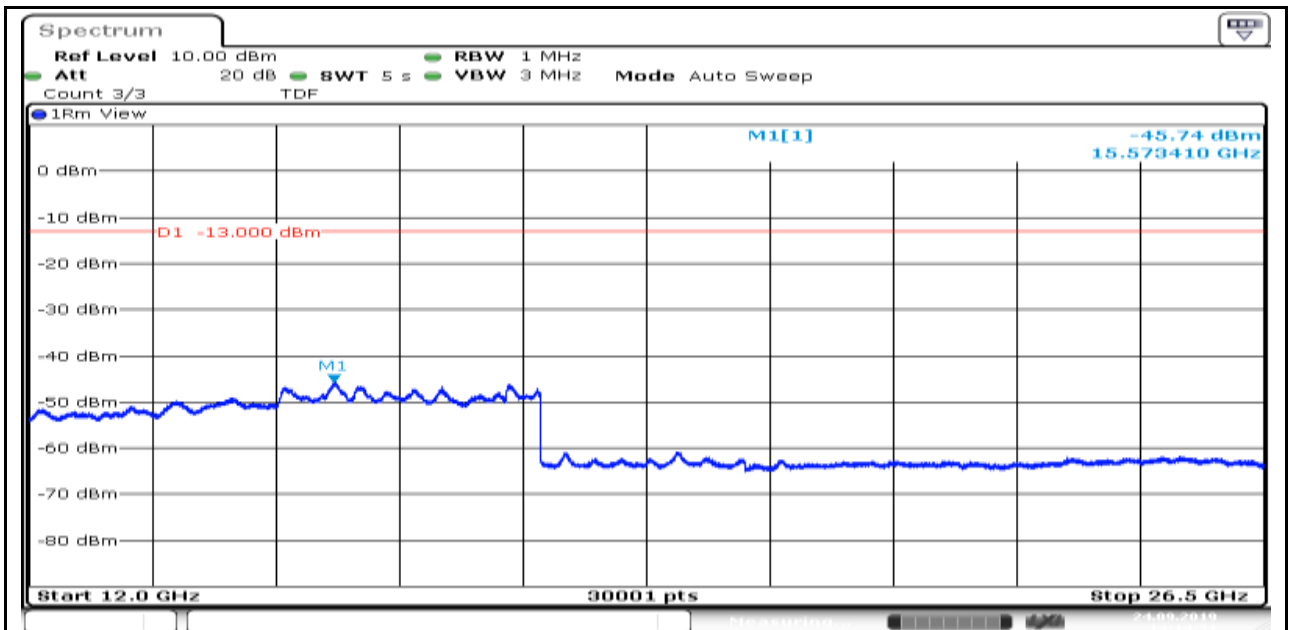
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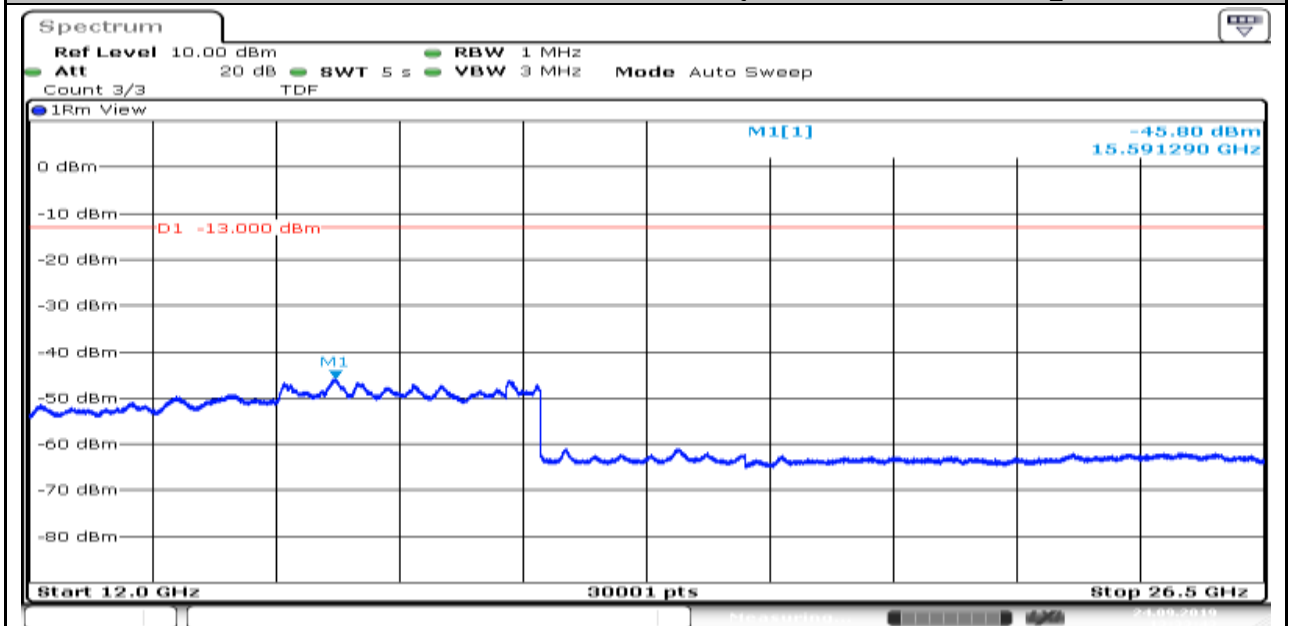
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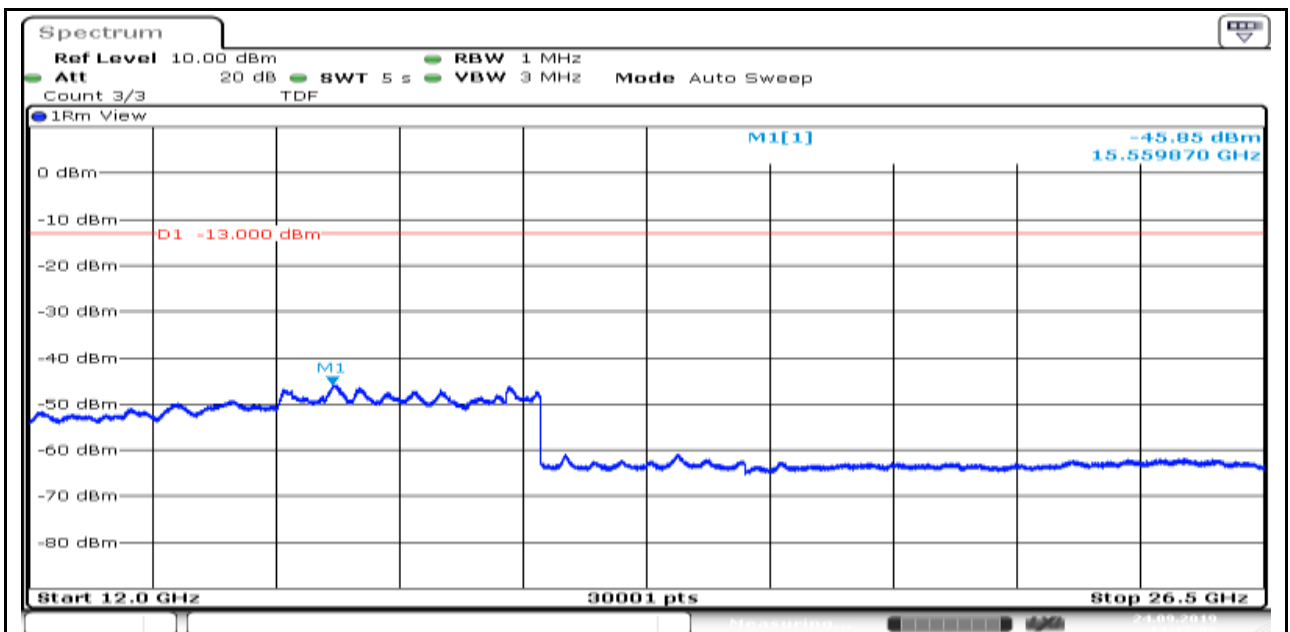
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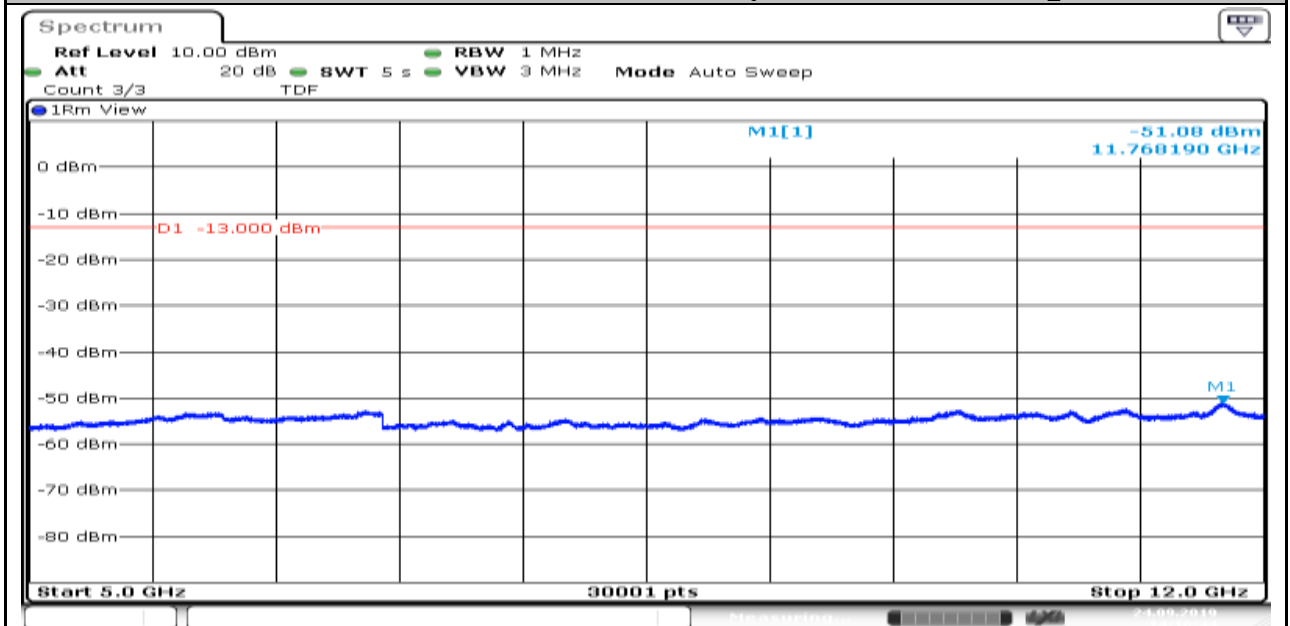
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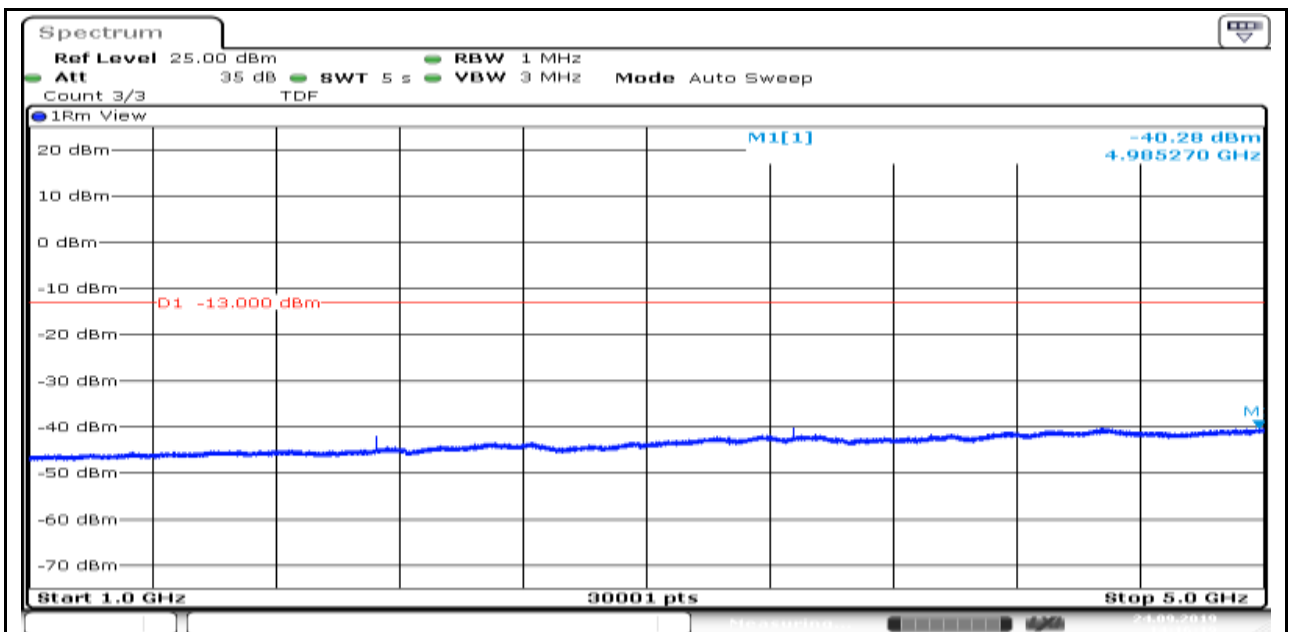
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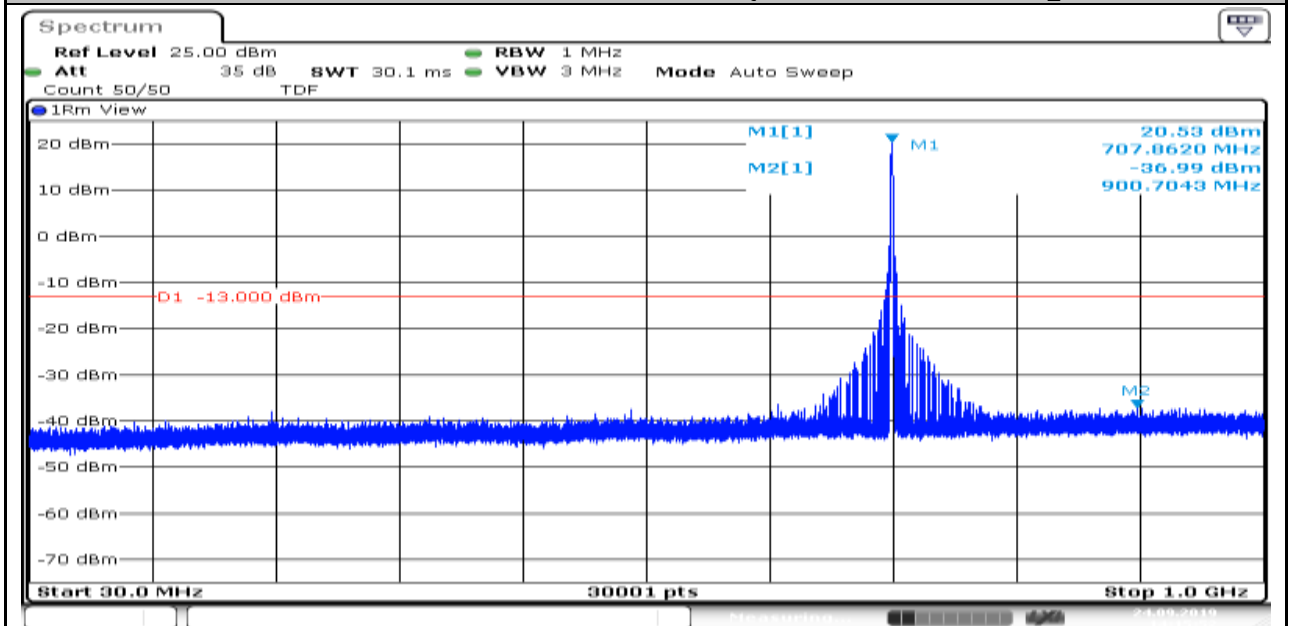
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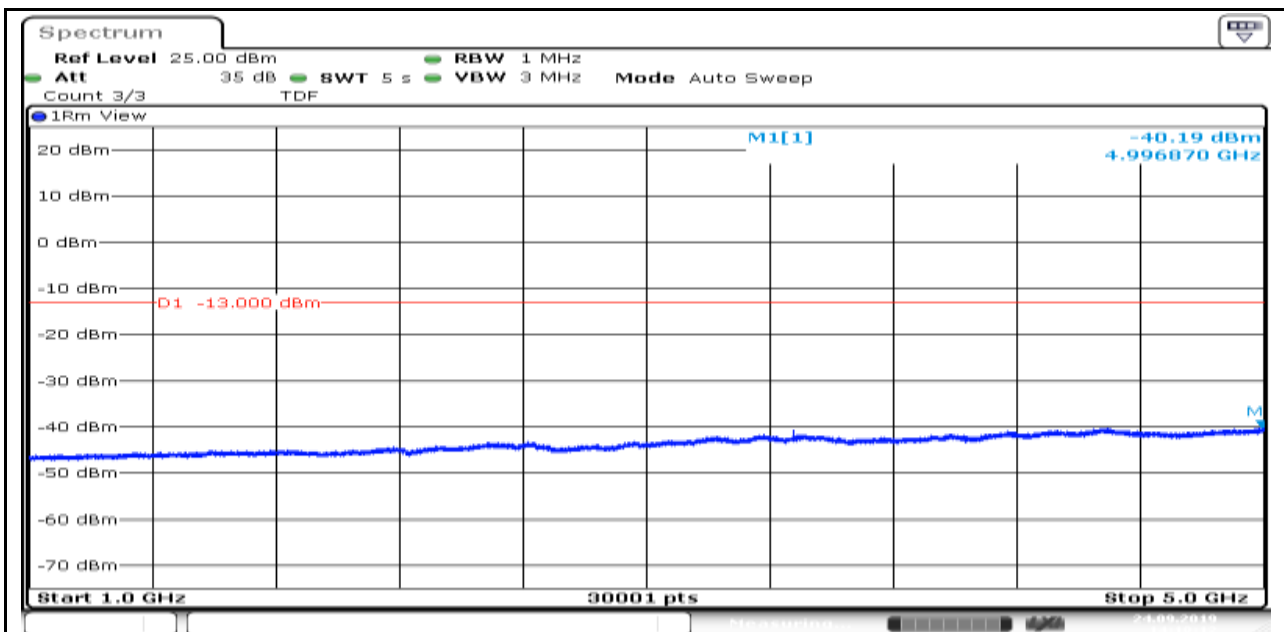
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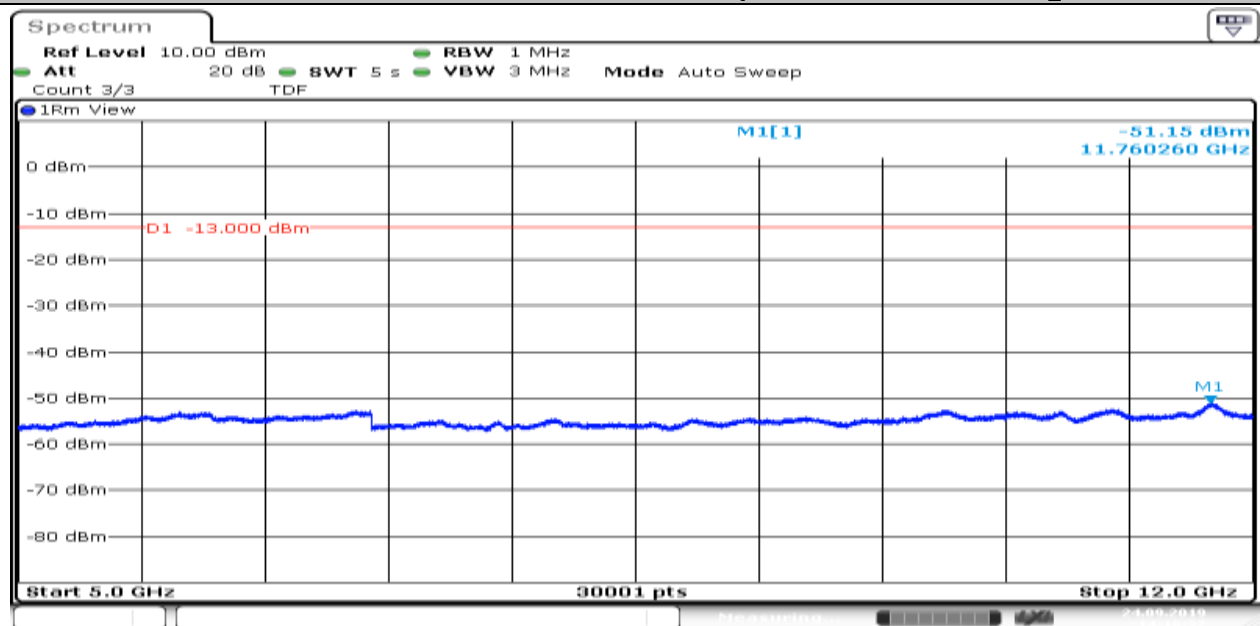
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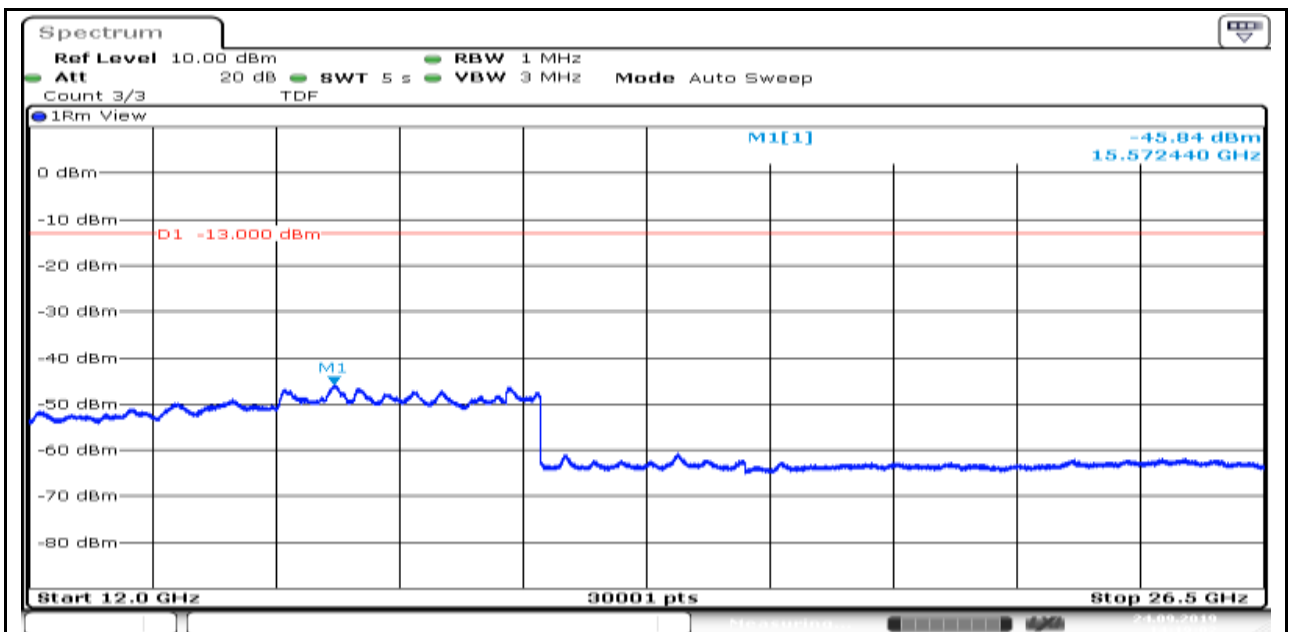
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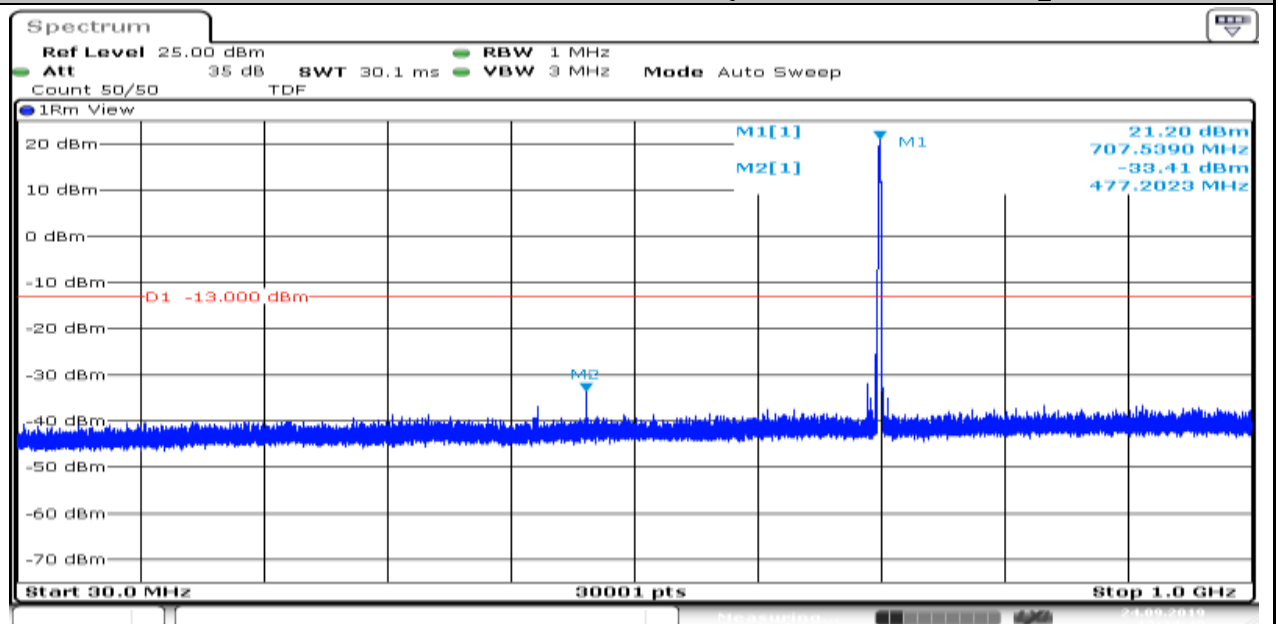


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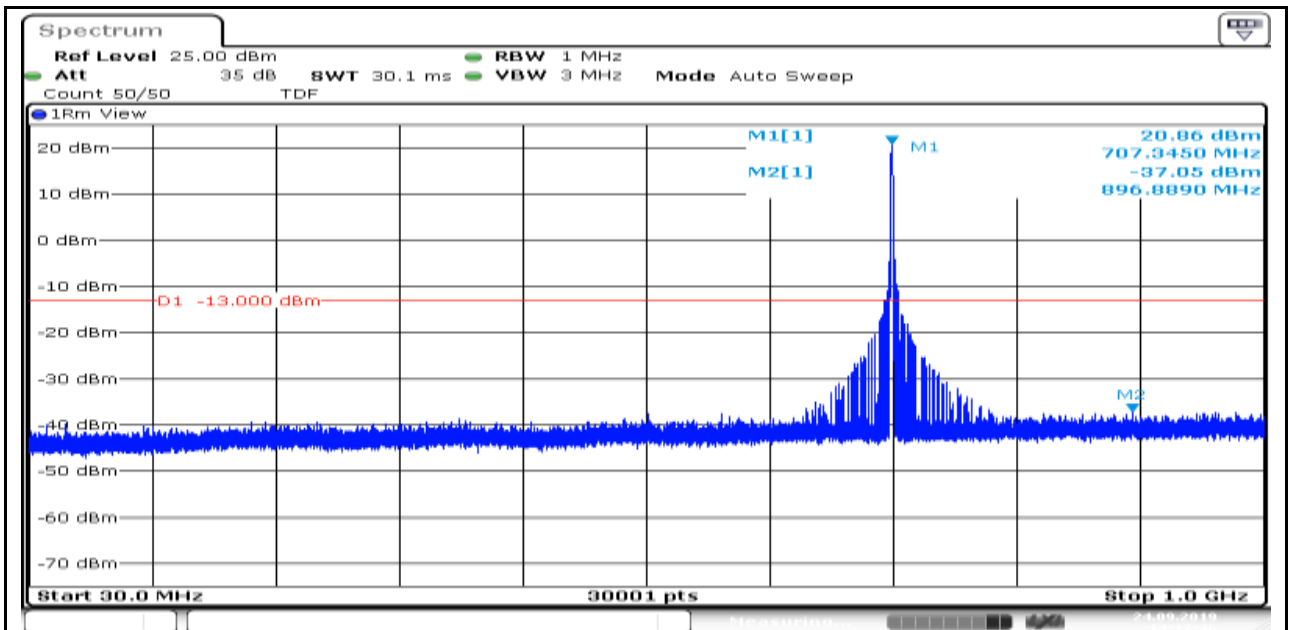
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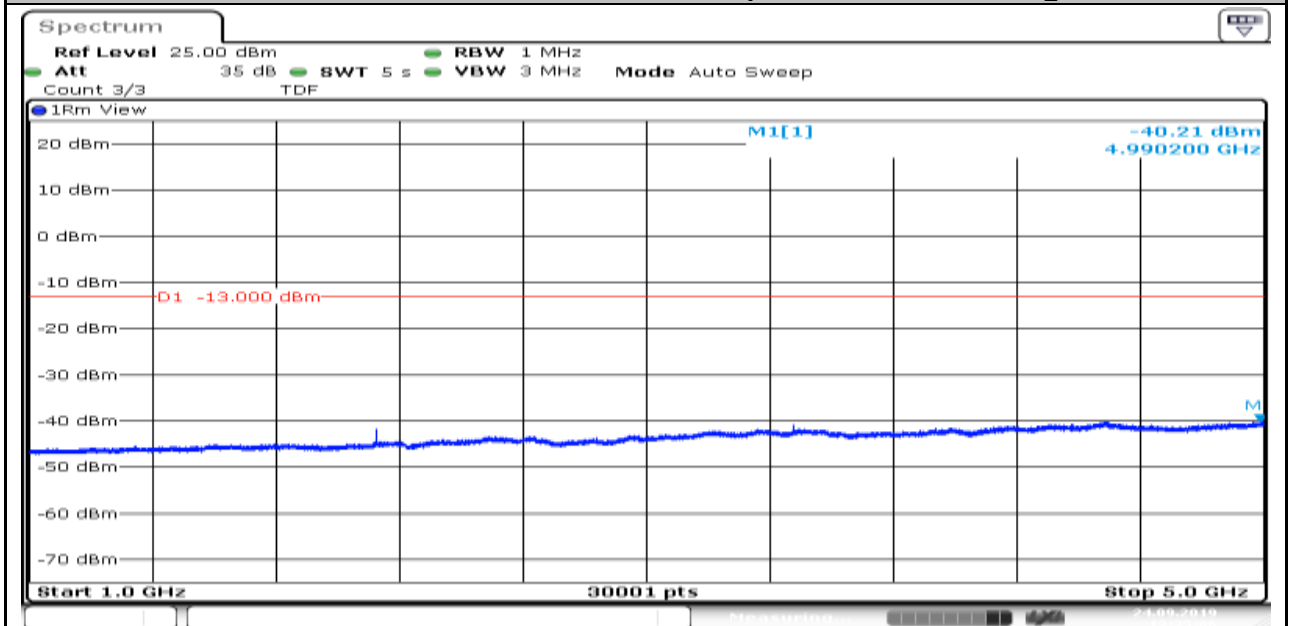


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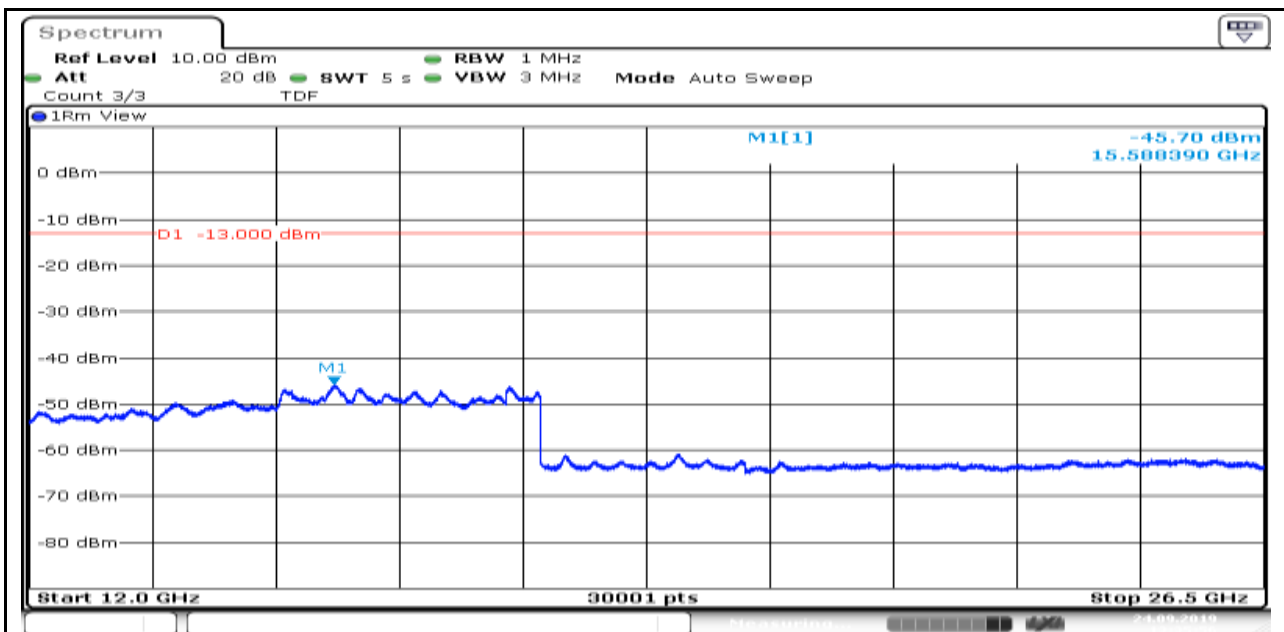
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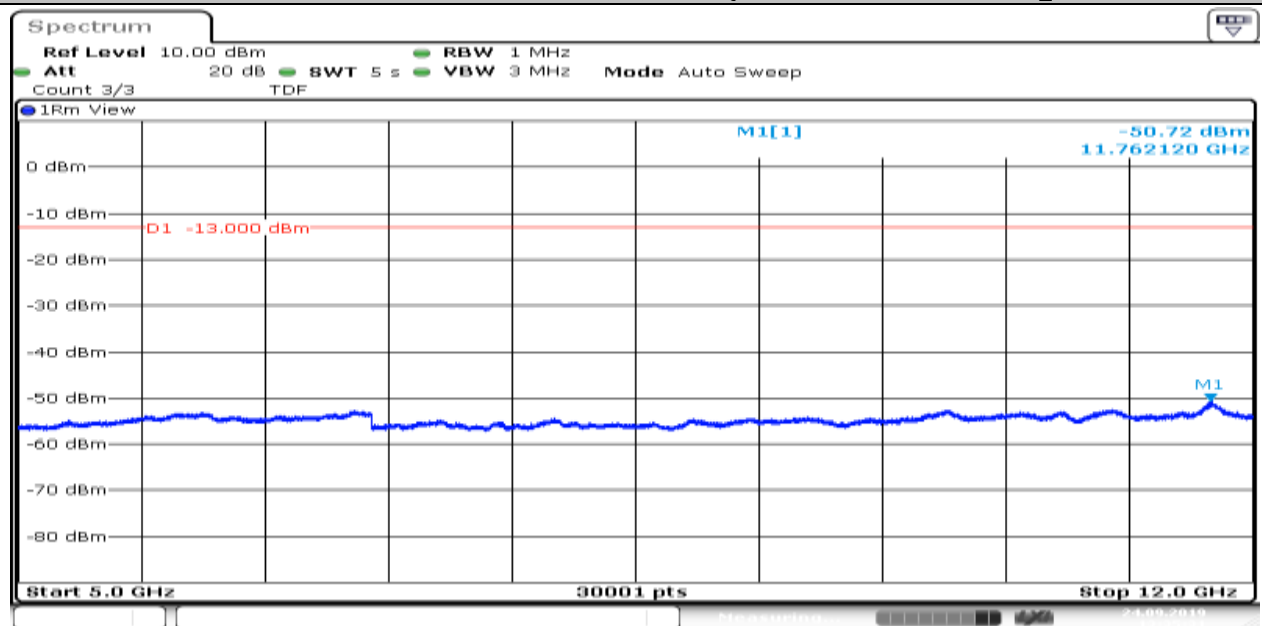
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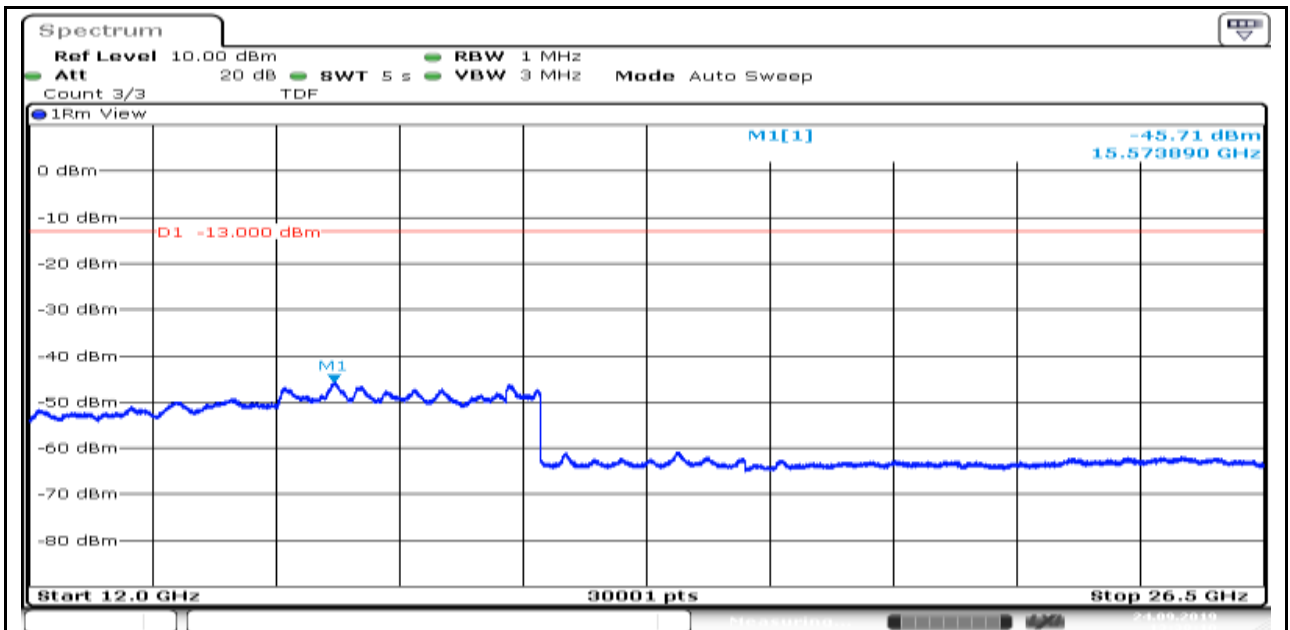
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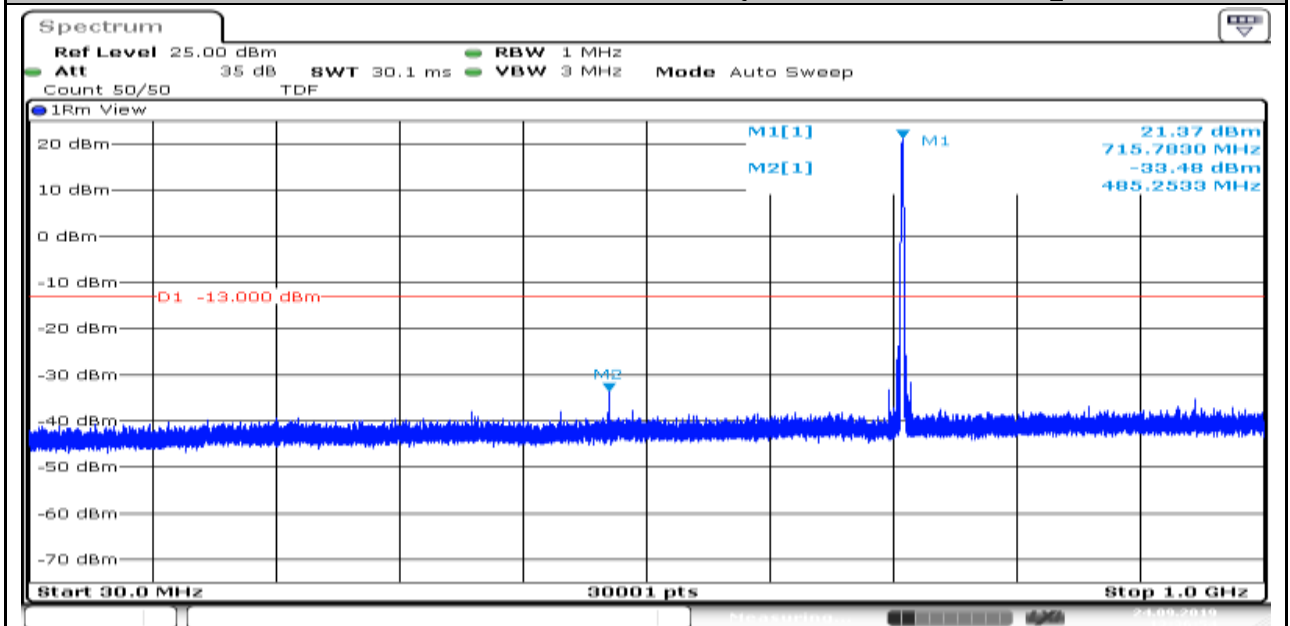
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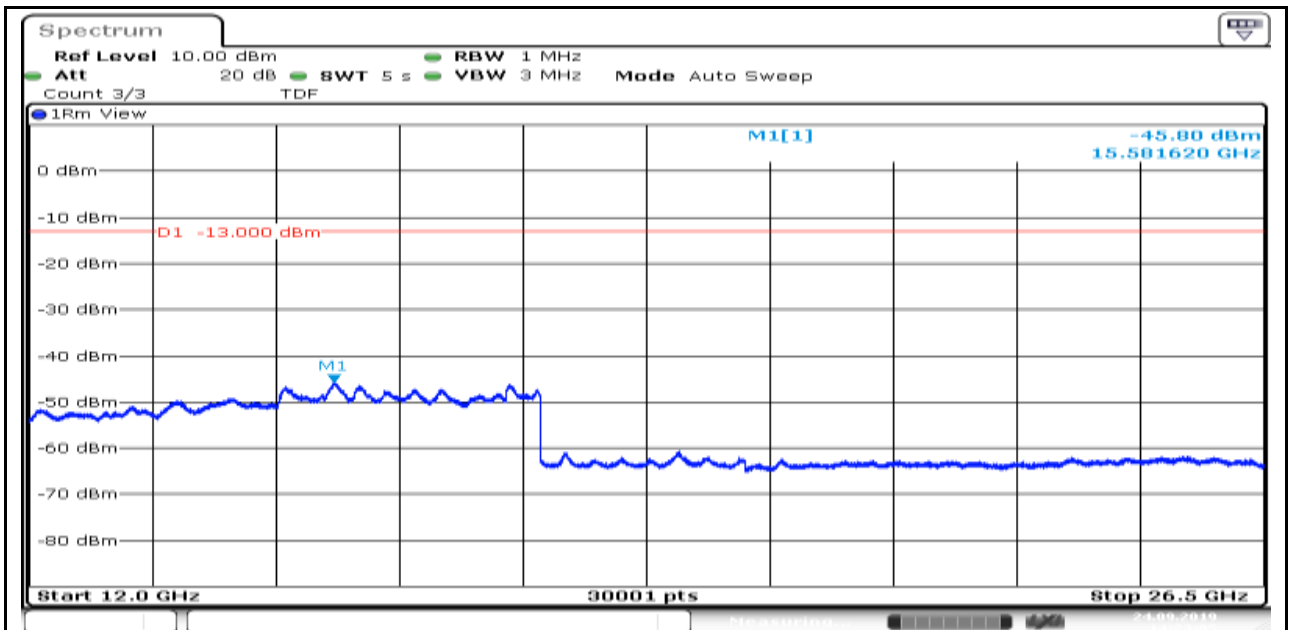
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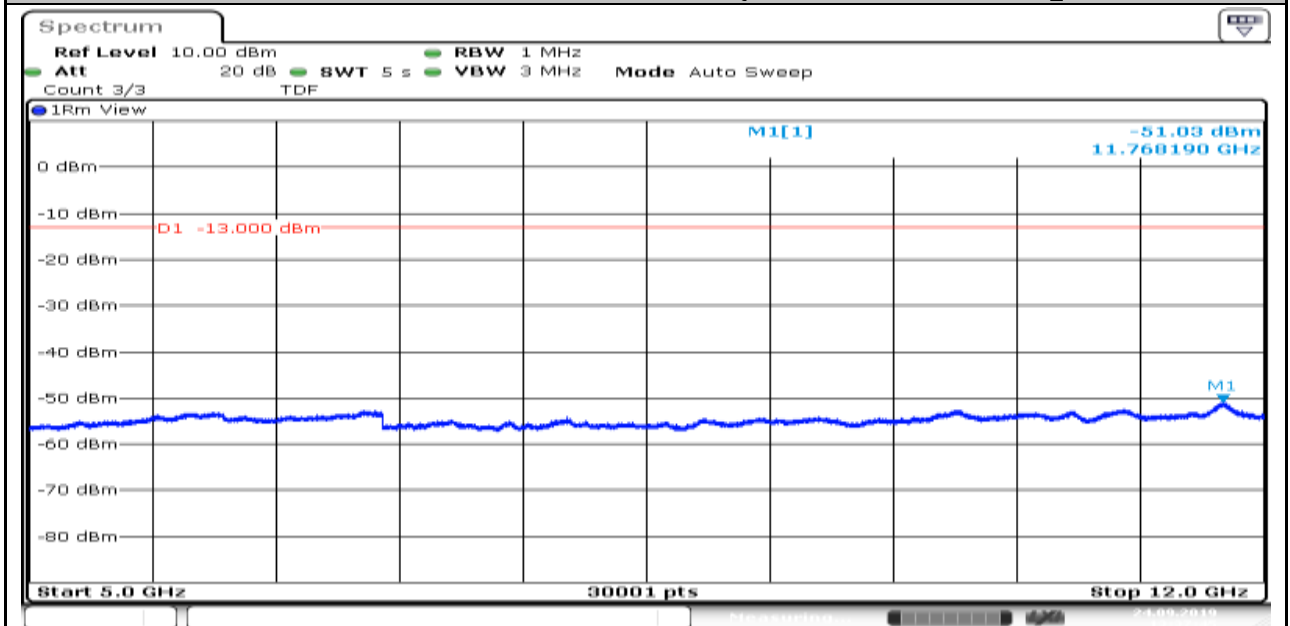
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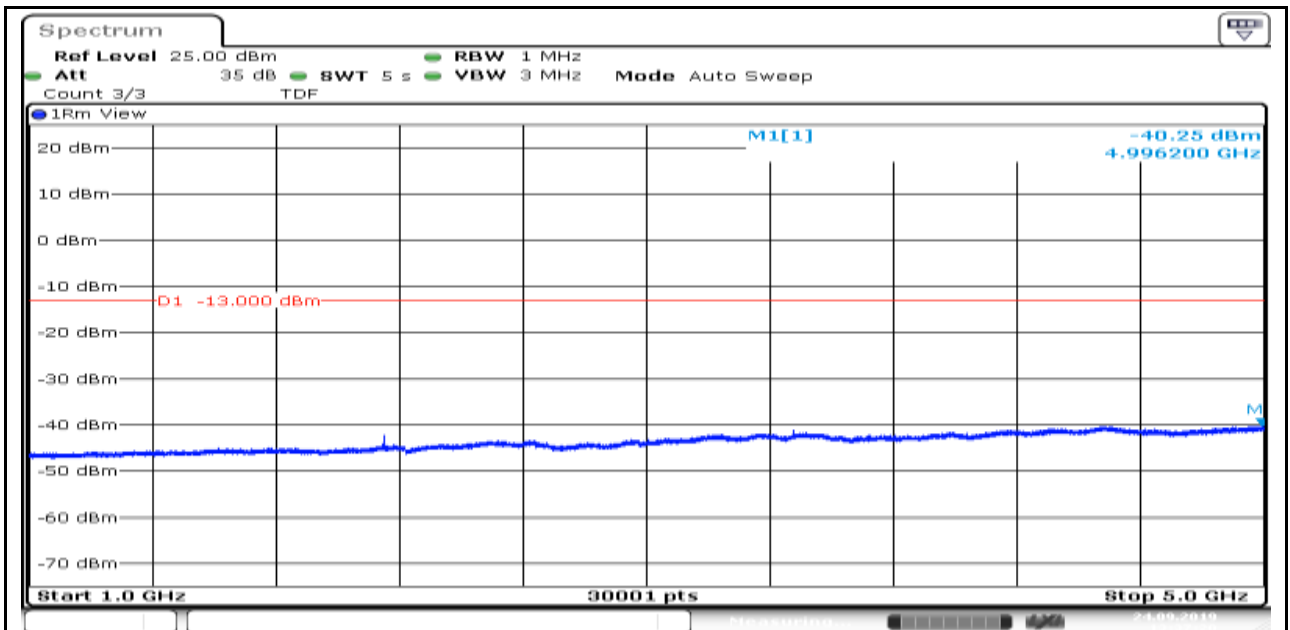
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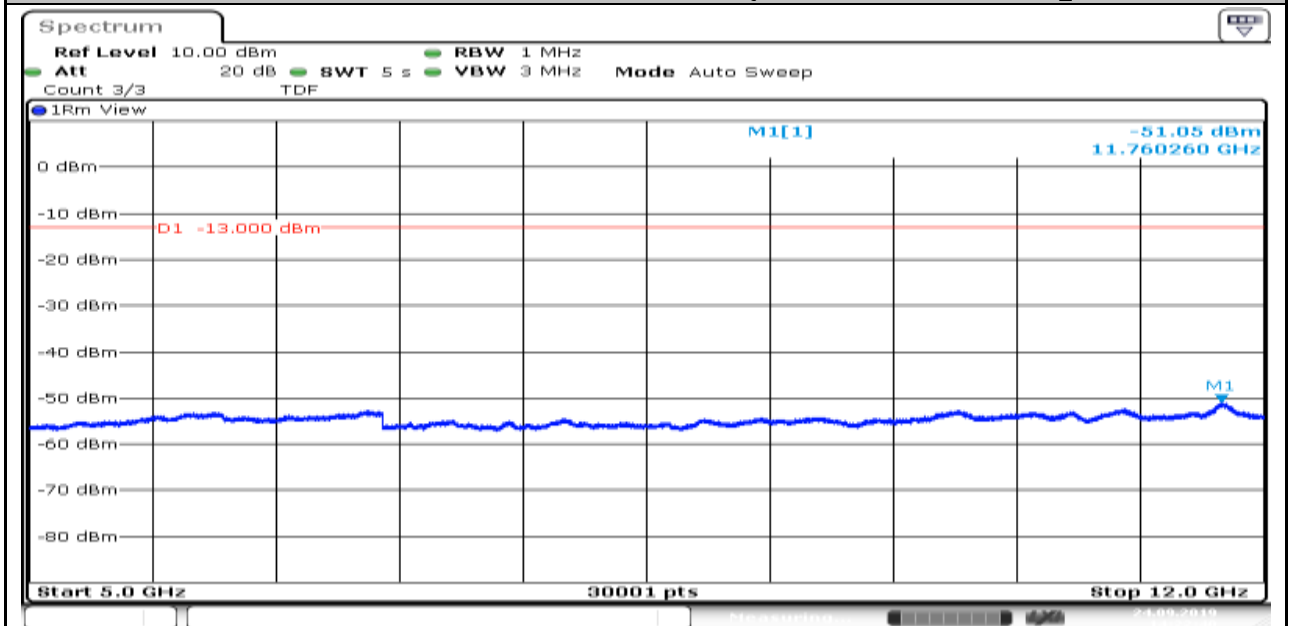
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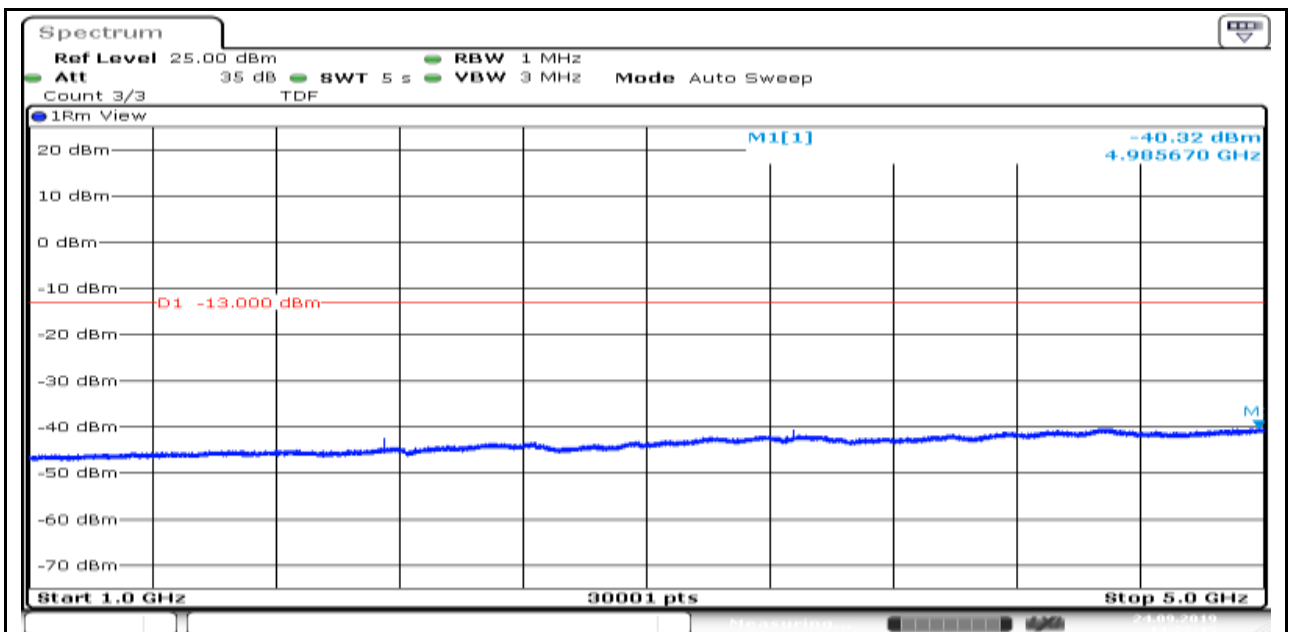
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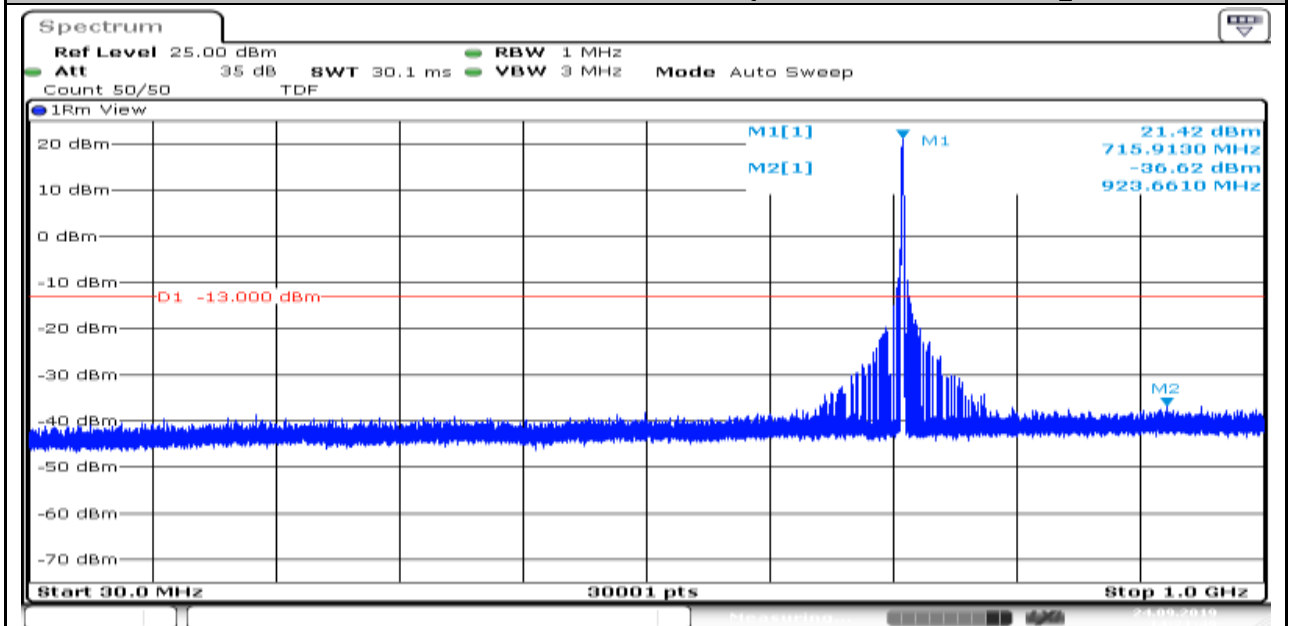
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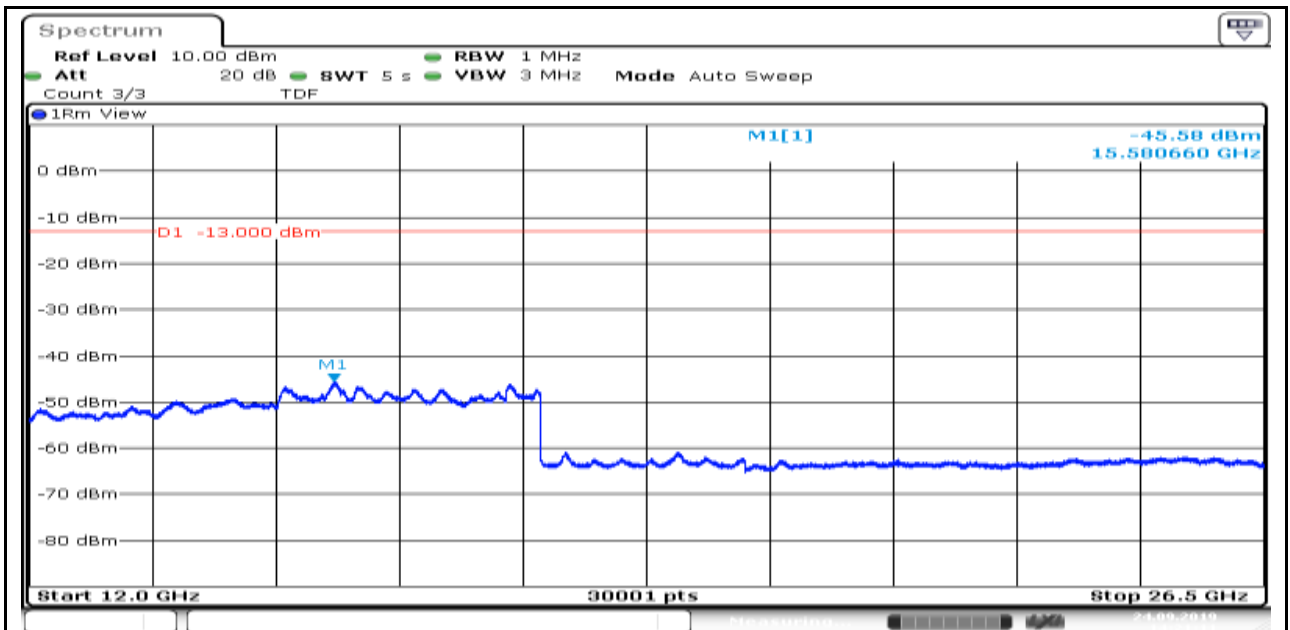
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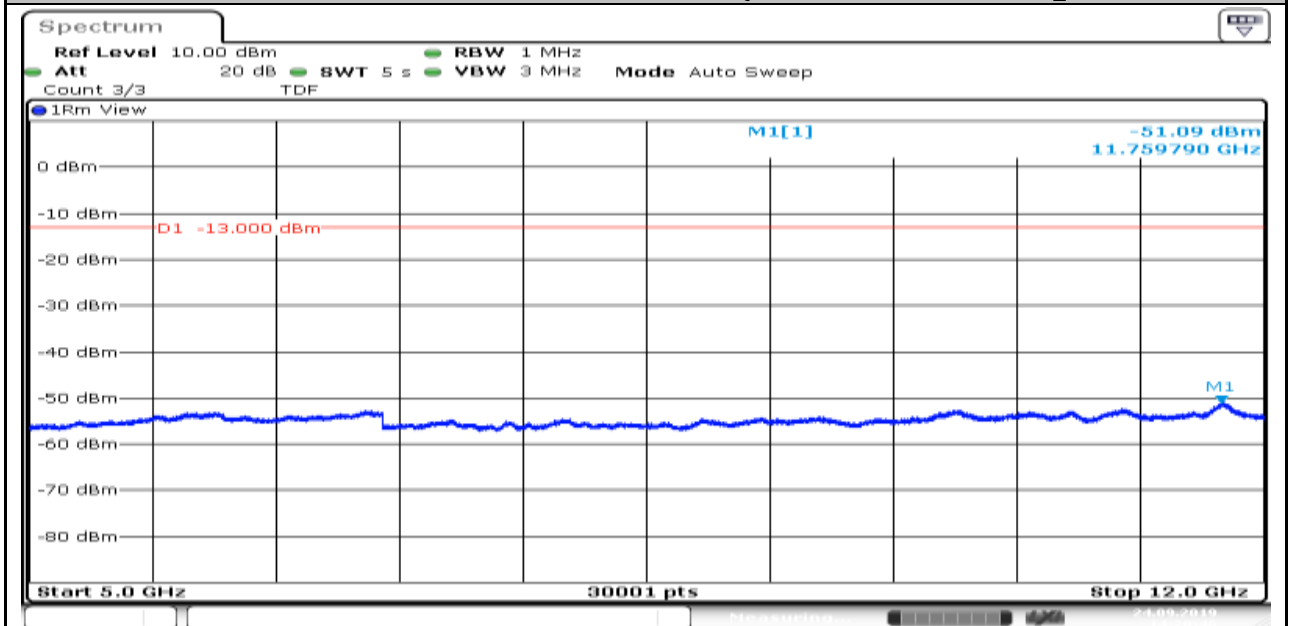
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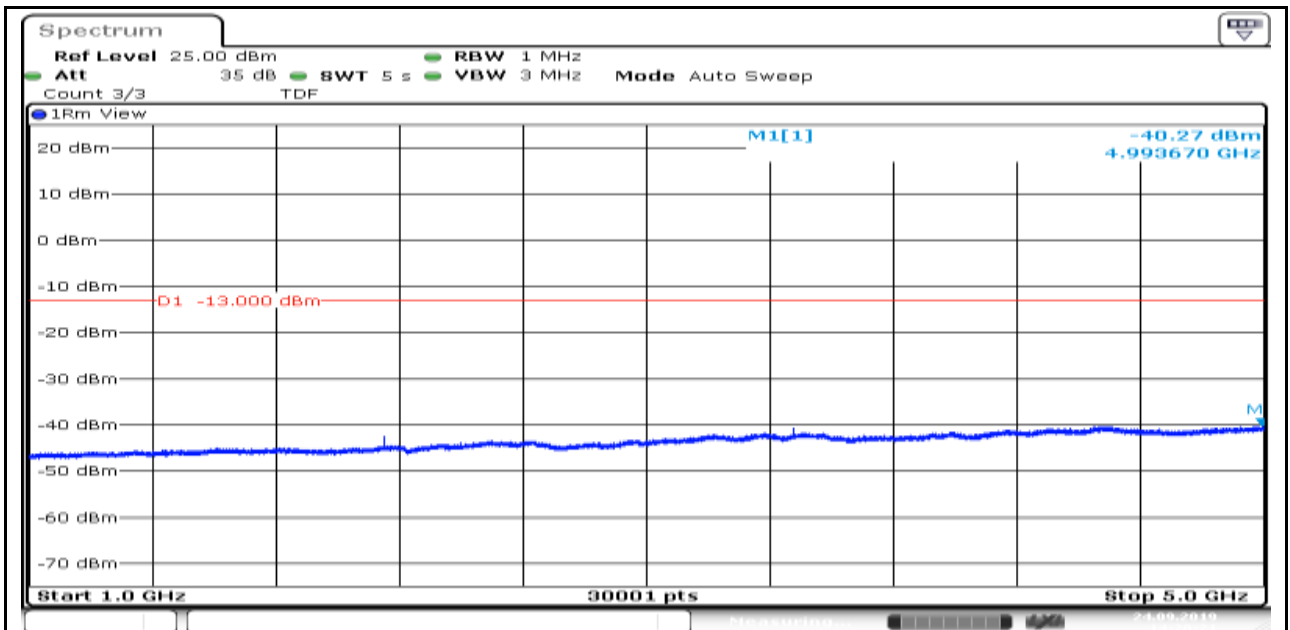
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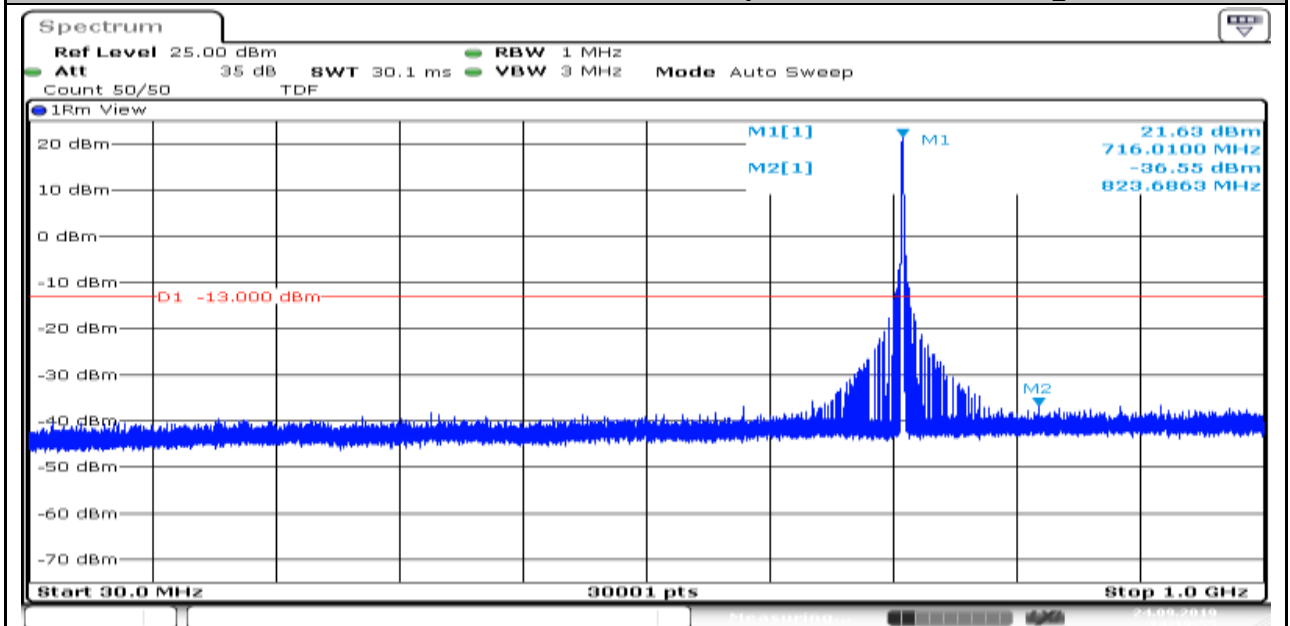
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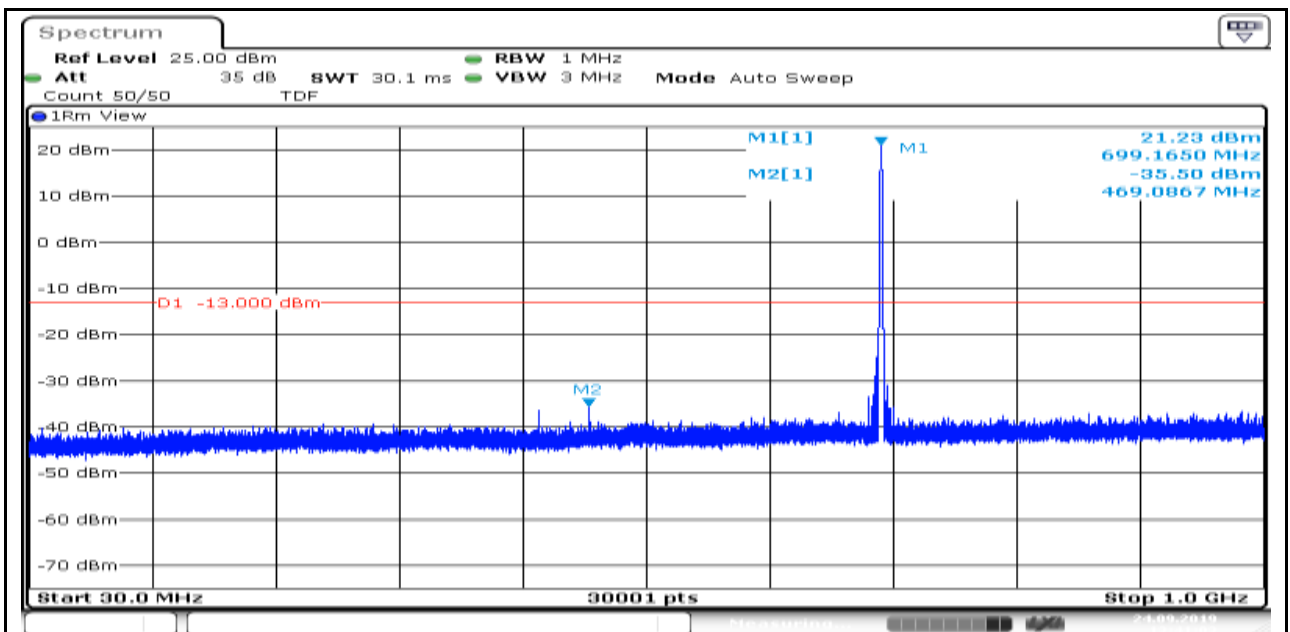
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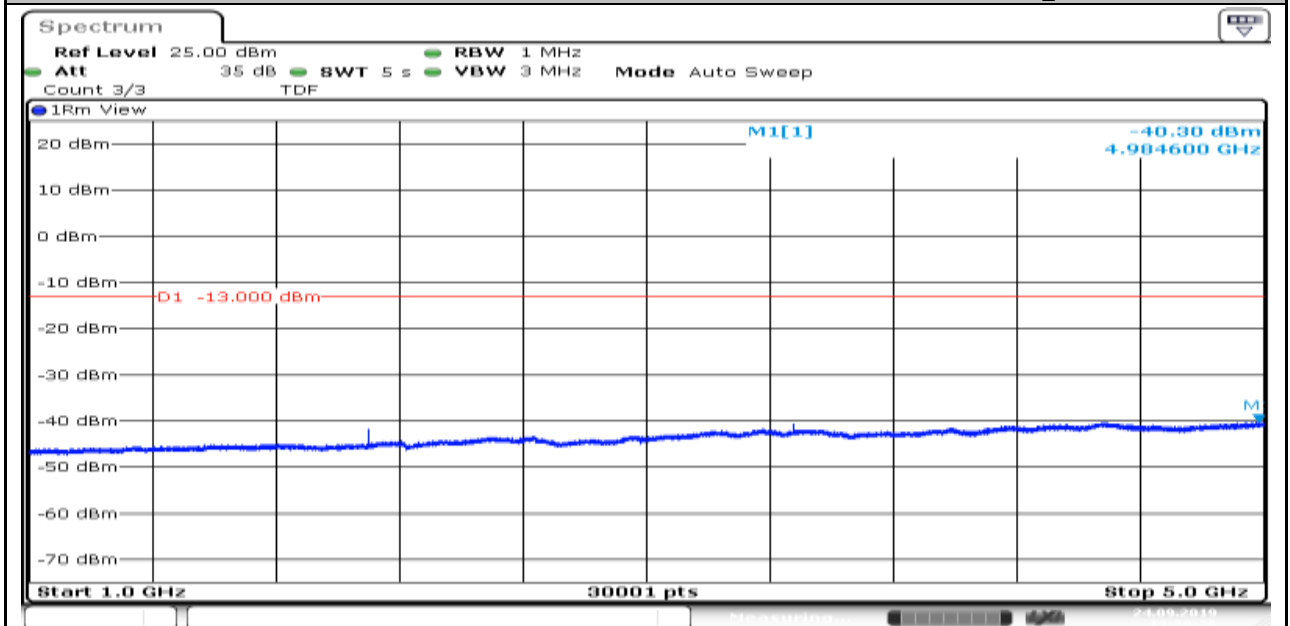
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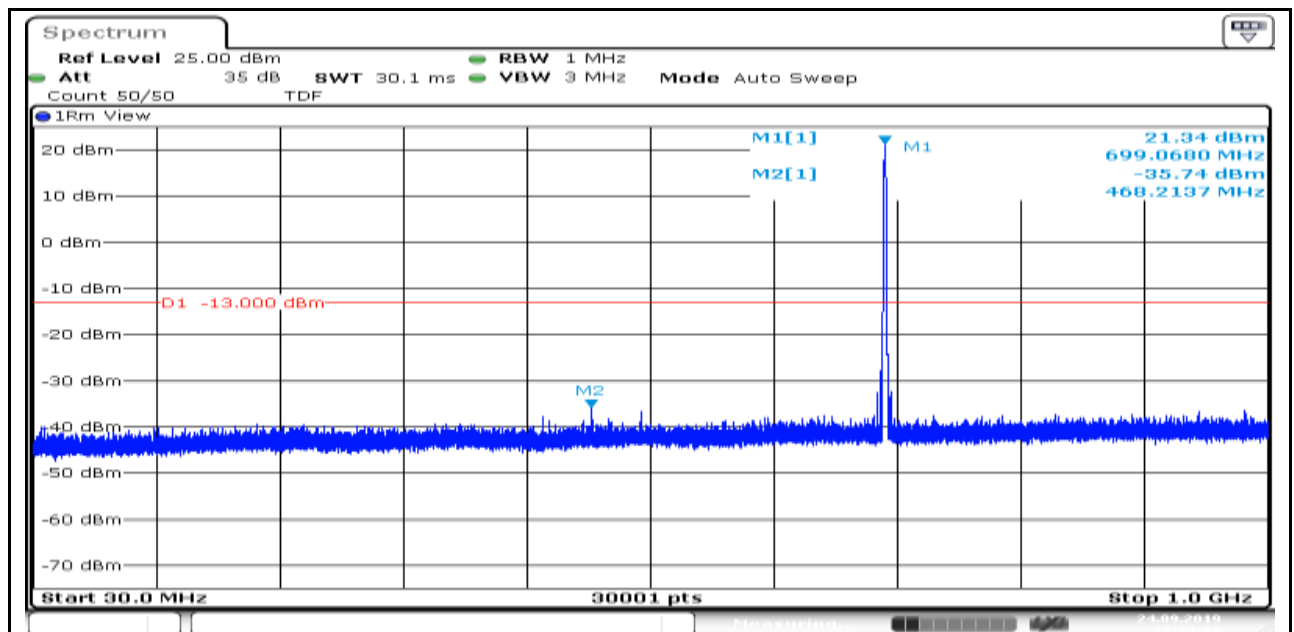
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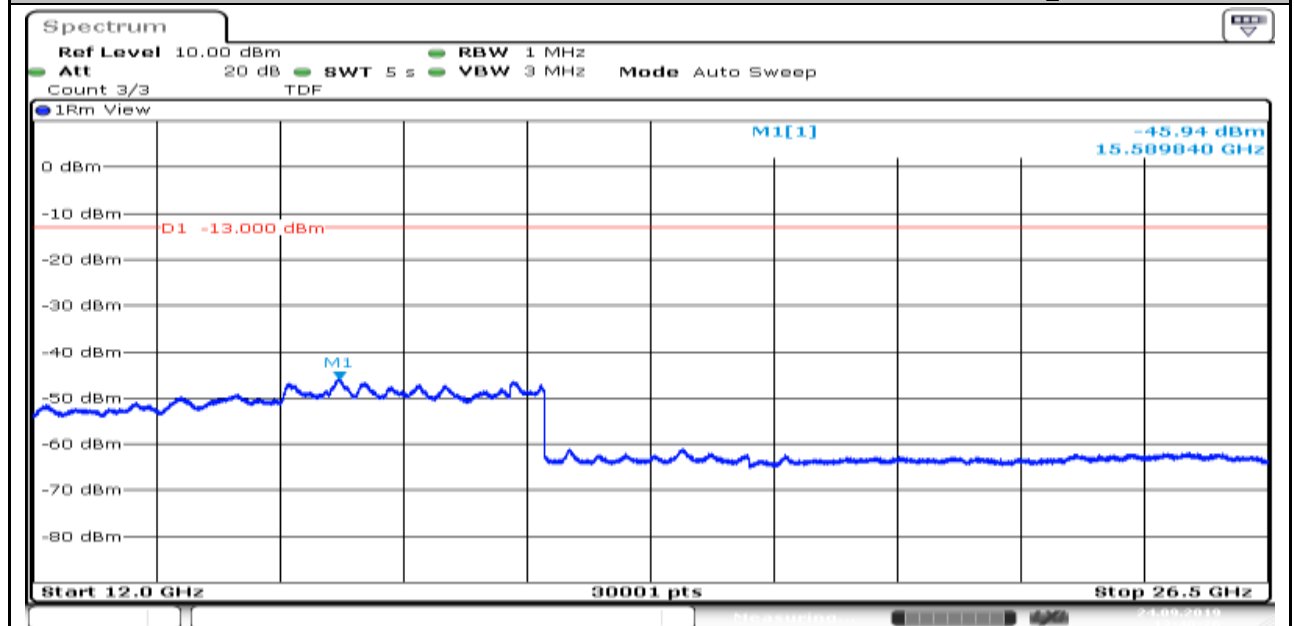
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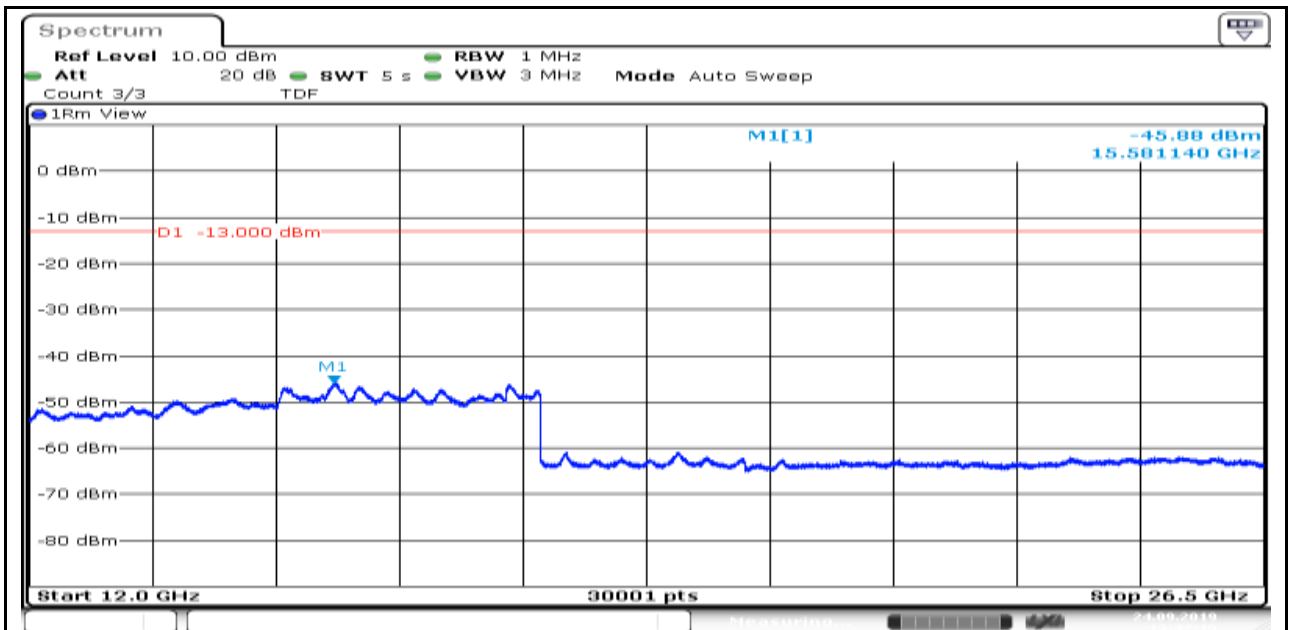
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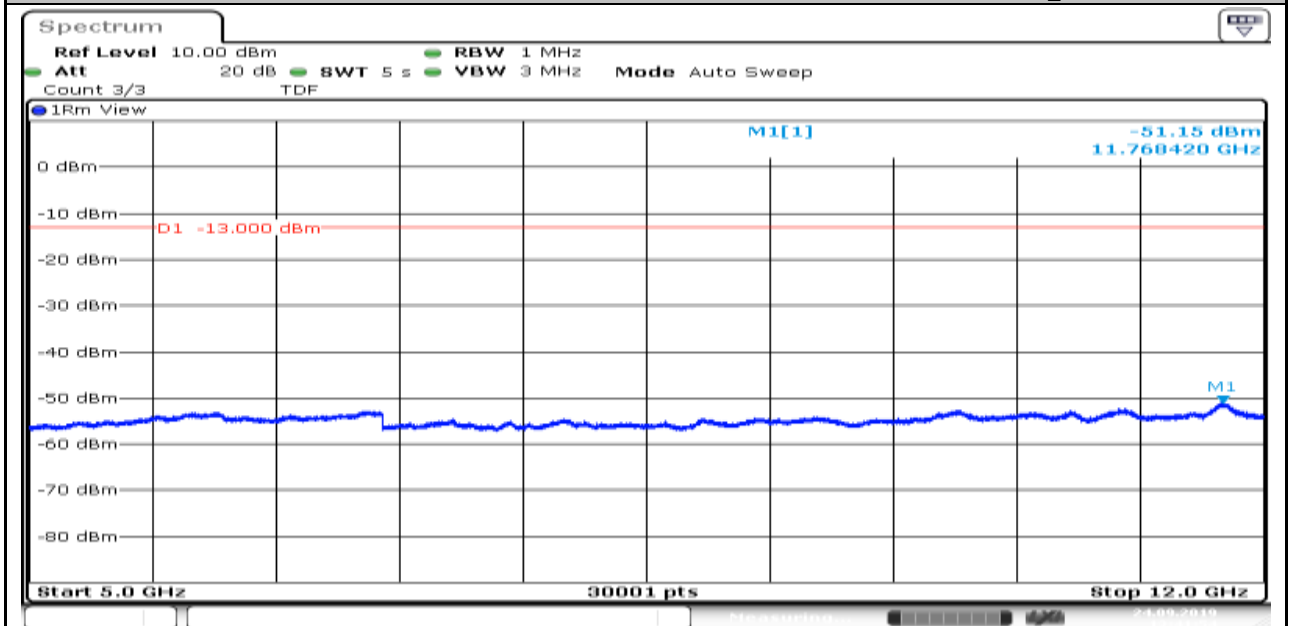
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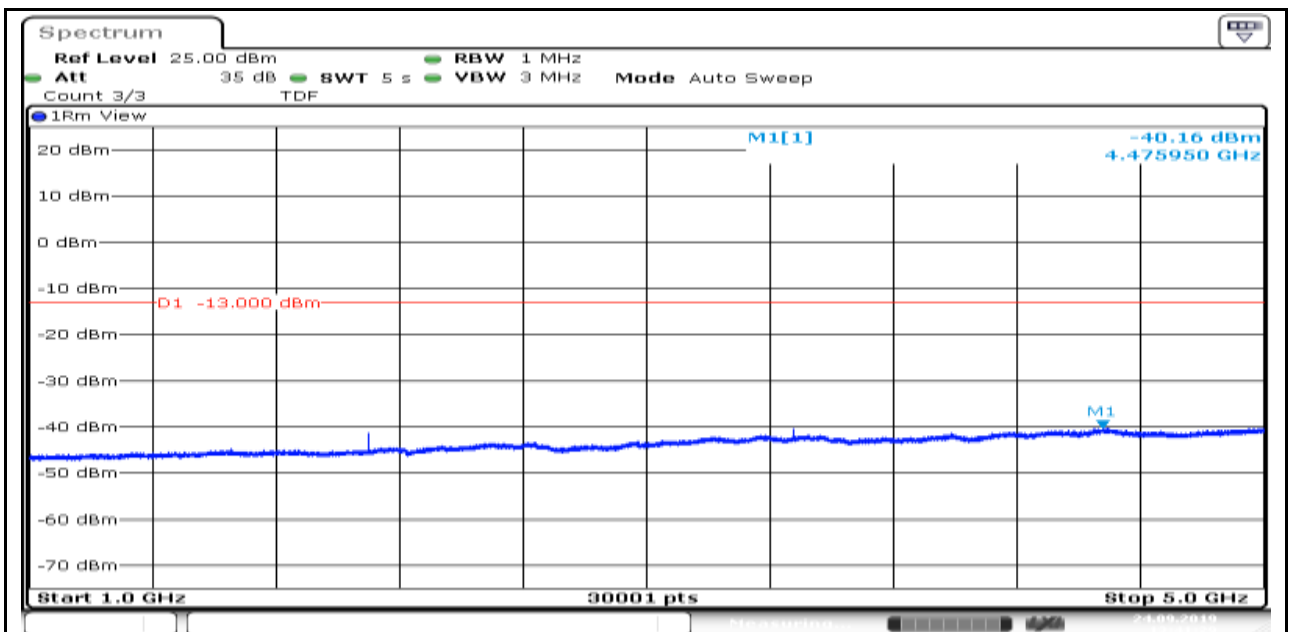
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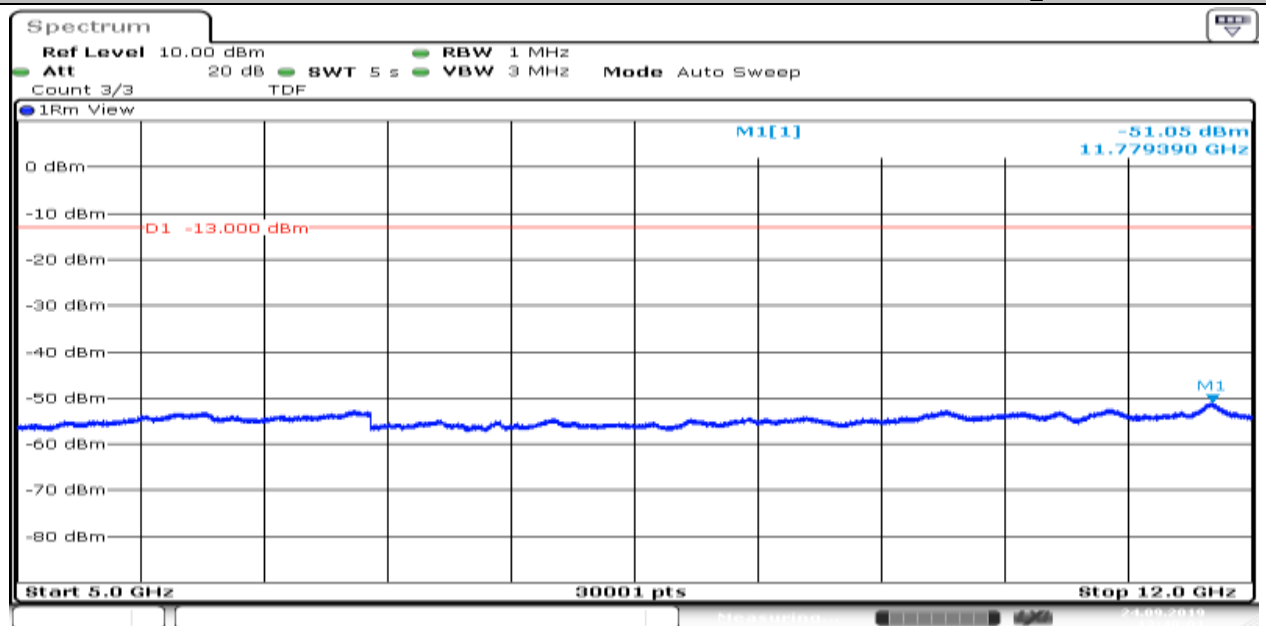
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