

Appendix B: Test Results of Band 4 for eMTC operation

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APPENDIX B.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	24.43	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	22.11	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	24.11	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	21.78	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	24.28	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	22.17	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	22.98	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	22.11	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	22.85	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	21.79	PASS
Band4	1.4MHz	20393	16QAM	1	5	Low	23.34	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	22.16	PASS
Band4	3MHz	19965	QPSK	1	0	Low	24.48	PASS
Band4	3MHz	19965	QPSK	6	0	Low	22.20	PASS
Band4	3MHz	20175	QPSK	1	0	Low	24.09	PASS
Band4	3MHz	20175	QPSK	6	0	Low	21.78	PASS
Band4	3MHz	20385	QPSK	1	5	High	24.38	PASS
Band4	3MHz	20385	QPSK	6	0	High	22.17	PASS
Band4	3MHz	19965	16QAM	1	0	Low	23.08	PASS
Band4	3MHz	19965	16QAM	6	0	Low	22.21	PASS
Band4	3MHz	20175	16QAM	1	0	Low	22.67	PASS
Band4	3MHz	20175	16QAM	6	0	Low	21.78	PASS
Band4	3MHz	20385	16QAM	1	5	High	23.15	PASS
Band4	3MHz	20385	16QAM	6	0	High	22.17	PASS
Band4	5MHz	19975	QPSK	1	0	Low	24.44	PASS
Band4	5MHz	19975	QPSK	6	0	Low	23.31	PASS
Band4	5MHz	20175	QPSK	1	0	Low	24.16	PASS
Band4	5MHz	20175	QPSK	6	0	Low	22.90	PASS
Band4	5MHz	20375	QPSK	1	5	High	24.44	PASS
Band4	5MHz	20375	QPSK	3	3	High	23.37	PASS
Band4	5MHz	19975	16QAM	1	0	Low	24.52	PASS
Band4	5MHz	19975	16QAM	6	0	Low	23.31	PASS
Band4	5MHz	20175	16QAM	1	0	Low	24.13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	22.90	PASS
Band4	5MHz	20375	16QAM	1	5	High	24.38	PASS
Band4	5MHz	20375	16QAM	3	3	High	23.53	PASS
Band4	10MHz	20000	QPSK	1	0	Low	24.56	PASS
Band4	10MHz	20000	QPSK	5	0	Low	23.34	PASS
Band4	10MHz	20175	QPSK	1	0	Low	24.23	PASS
Band4	10MHz	20175	QPSK	5	0	Low	23.00	PASS

Band4	10MHz	20350	QPSK	1	5	High	24.43	PASS
Band4	10MHz	20350	QPSK	5	1	High	23.45	PASS
Band4	10MHz	20000	16QAM	1	0	Low	24.51	PASS
Band4	10MHz	20000	16QAM	5	0	Low	23.26	PASS
Band4	10MHz	20175	16QAM	1	0	Low	24.19	PASS
Band4	10MHz	20175	16QAM	5	0	Low	23.05	PASS
Band4	10MHz	20350	16QAM	1	5	High	24.35	PASS
Band4	10MHz	20350	16QAM	5	1	High	23.52	PASS
Band4	15MHz	20025	QPSK	1	0	Low	24.40	PASS
Band4	15MHz	20025	QPSK	6	0	Low	24.38	PASS
Band4	15MHz	20175	QPSK	1	0	Low	24.28	PASS
Band4	15MHz	20175	QPSK	6	0	Low	24.13	PASS
Band4	15MHz	20325	QPSK	1	5	High	24.38	PASS
Band4	15MHz	20325	QPSK	6	0	High	24.47	PASS
Band4	15MHz	20025	16QAM	1	0	Low	24.51	PASS
Band4	15MHz	20025	16QAM	6	0	Low	24.37	PASS
Band4	15MHz	20175	16QAM	1	0	Low	24.29	PASS
Band4	15MHz	20175	16QAM	6	0	Low	24.13	PASS
Band4	15MHz	20325	16QAM	1	5	High	24.35	PASS
Band4	15MHz	20325	16QAM	6	0	High	24.47	PASS
Band4	20MHz	20050	QPSK	1	0	Low	24.49	PASS
Band4	20MHz	20050	QPSK	6	0	Low	24.34	PASS
Band4	20MHz	20175	QPSK	1	0	Low	24.40	PASS
Band4	20MHz	20175	QPSK	6	0	Low	24.17	PASS
Band4	20MHz	20300	QPSK	1	5	High	24.42	PASS
Band4	20MHz	20300	QPSK	6	0	High	24.52	PASS
Band4	20MHz	20050	16QAM	1	0	Low	24.44	PASS
Band4	20MHz	20050	16QAM	6	0	Low	24.33	PASS
Band4	20MHz	20175	16QAM	1	0	Low	24.31	PASS
Band4	20MHz	20175	16QAM	6	0	Low	24.18	PASS
Band4	20MHz	20300	16QAM	1	5	High	24.35	PASS
Band4	20MHz	20300	16QAM	6	0	High	24.52	PASS

Note: The highest antenna gain permitted including cable loss, must satisfy both EIRP (ERP) limit and RF exposure requirements.

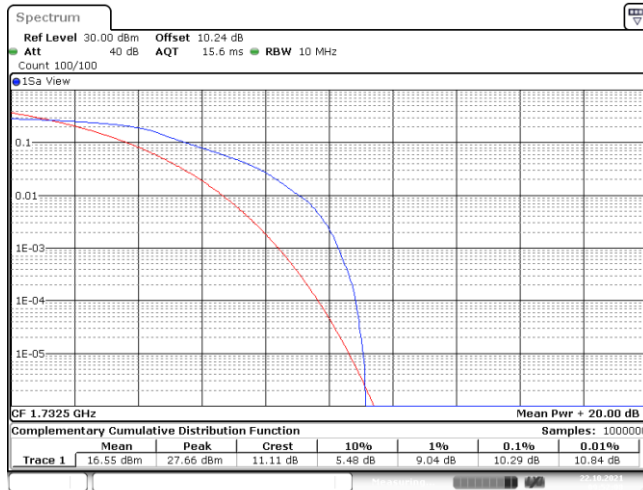
APPENDIX B.2: PEAK-TO-AVERAGE RATIO (CCDF) FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Result (dB)	Limit (dB)	Verdict
Band4	1.4MHz	20175	QPSK	6	0	Low	10.29	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	10.96	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	10.64	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	Low	12.58	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	11.39	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	9.68	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	Low	12.49	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	9.68	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	11.91	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	Low	9.39	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	9.88	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	11.39	<=13	PASS

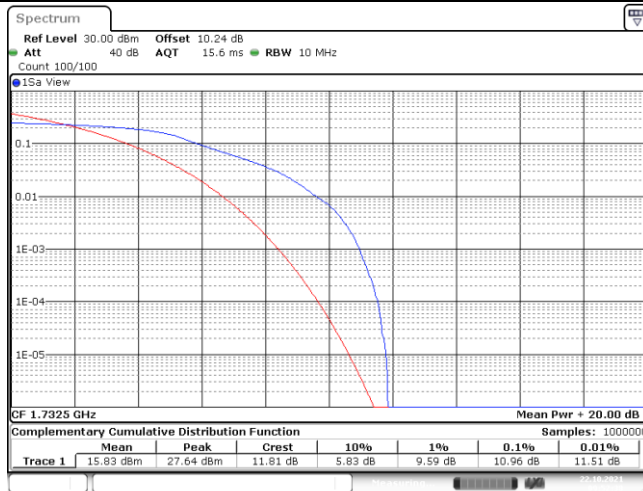
Test Graphs

Band4-1.4MHz-QPSK-20175-6-0-Low-10.29-<=13-PASS



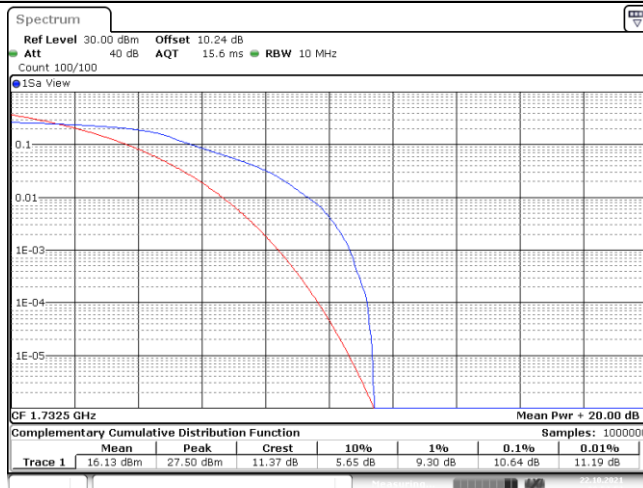
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Band4-1.4MHz-16QAM-20175-6-0-Low-10.96-<=13-PASS



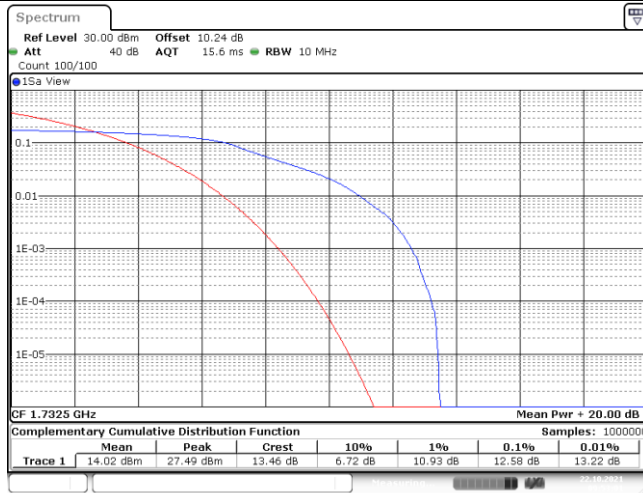
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Band4-3MHz-QPSK-20175-6-0-Low-10.64-<=13-PASS



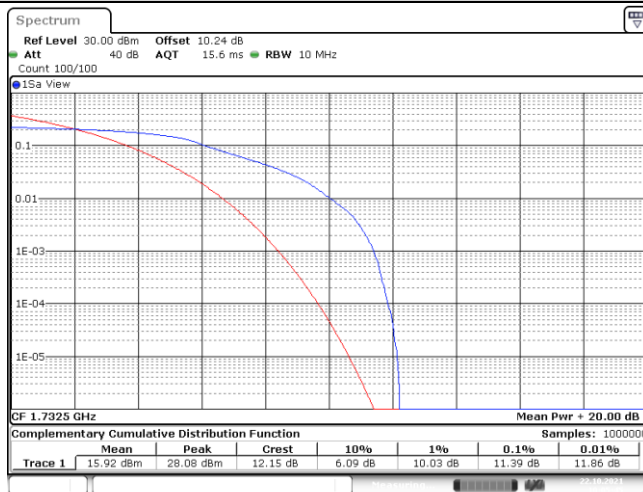
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Band4-3MHz-16QAM-20175-6-0-Low-12.58-<=13-PASS



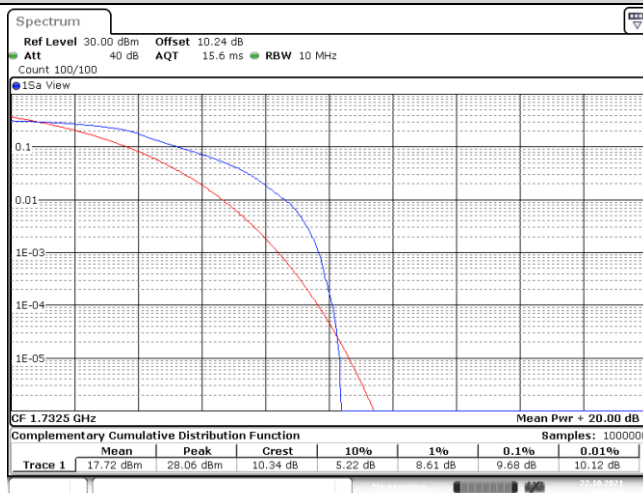
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Band4-5MHz-QPSK-20175-6-0-Low-11.39-<=13-PASS



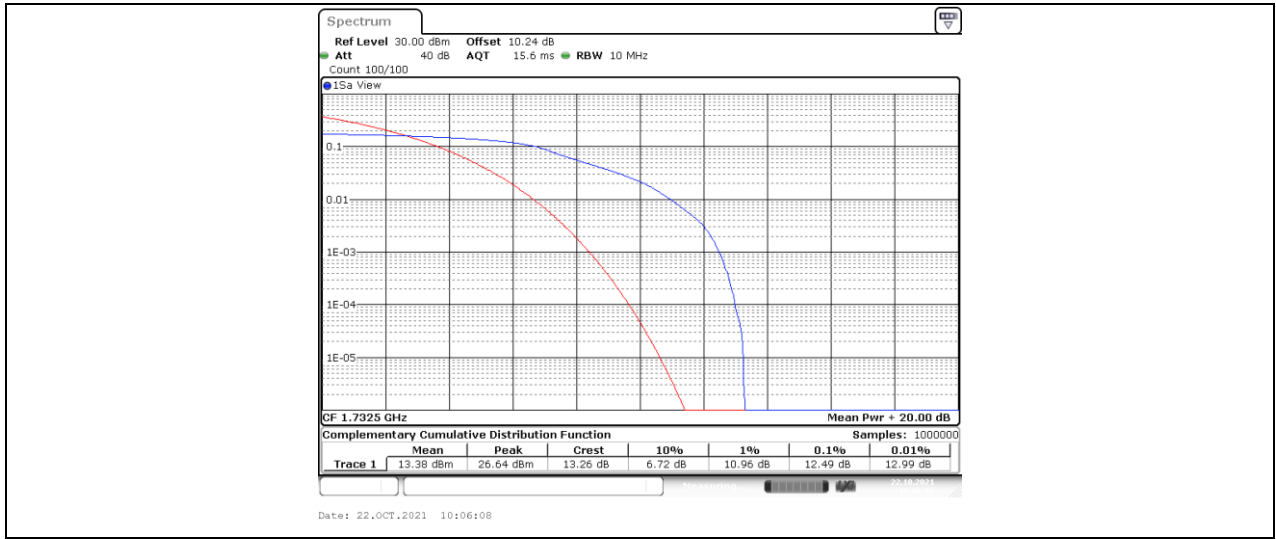
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Band4-5MHz-16QAM-20175-6-0-Low-9.68-<=13-PASS

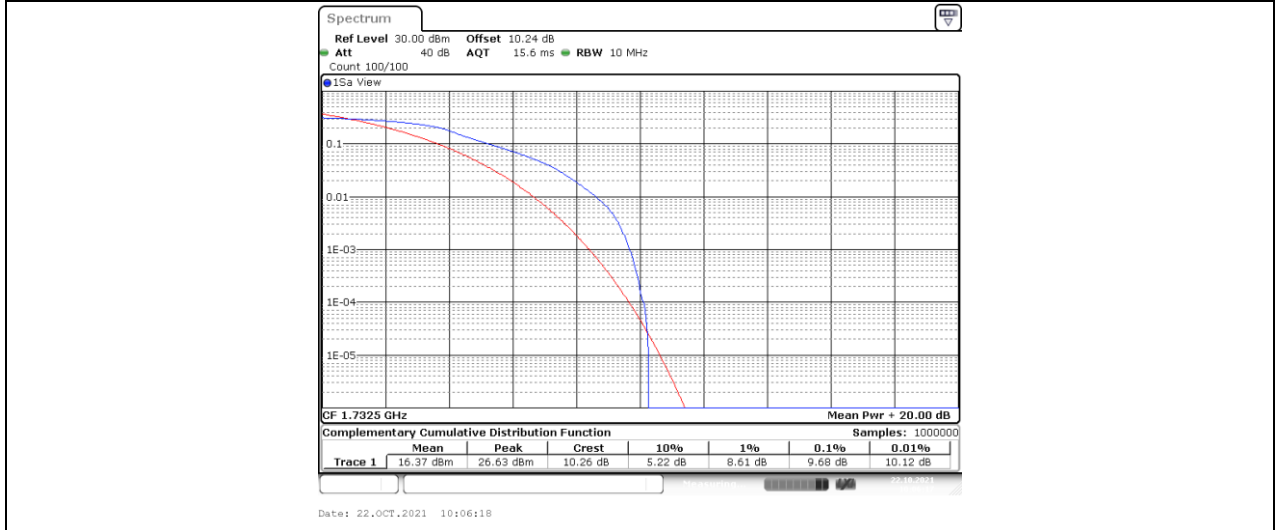


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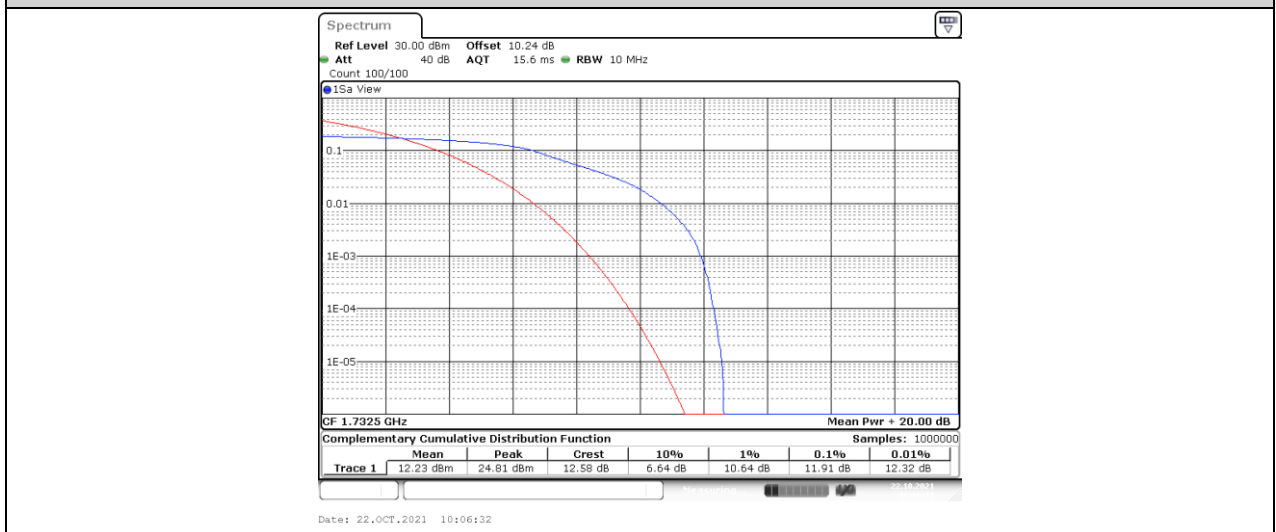
Band4-10MHz-QPSK-20175-6-0-Low-12.49-<=13-PASS



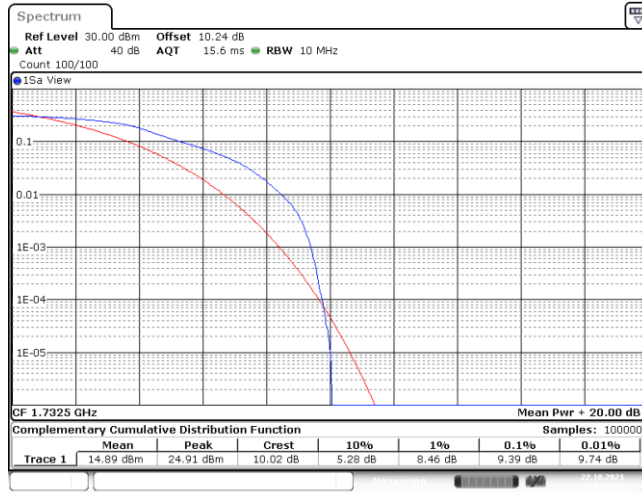
Band4-10MHz-16QAM-20175-6-0-Low-9.68-<=13-PASS



Band4-15MHz-QPSK-20175-6-0-Low-11.91-<=13-PASS

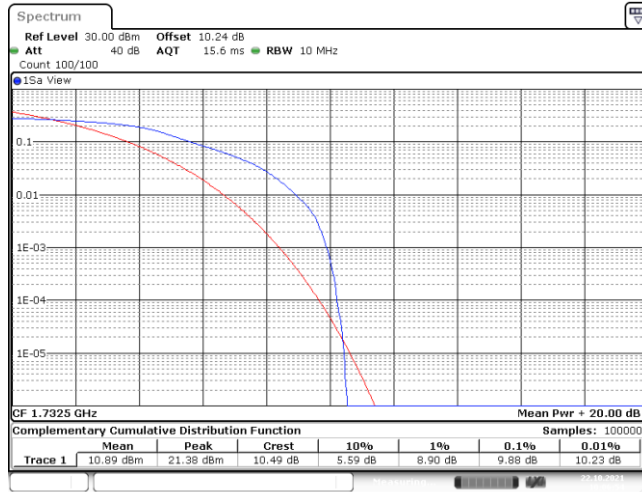


Band4-15MHz-16QAM-20175-6-0-Low-9.39-<=13-PASS



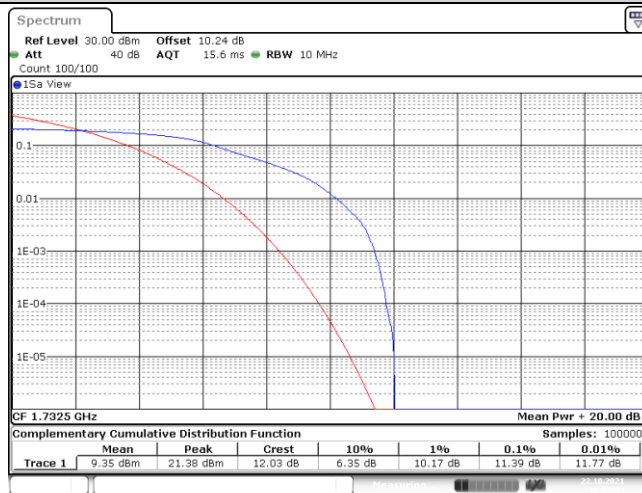
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Band4-20MHz-QPSK-20175-6-0-Low-9.88-<=13-PASS



Date: 22.OCT.2021 10:06:55

Band4-20MHz-16QAM-20175-6-0-Low-11.39-<=13-PASS



Date: 22.OCT.2021 10:07:05

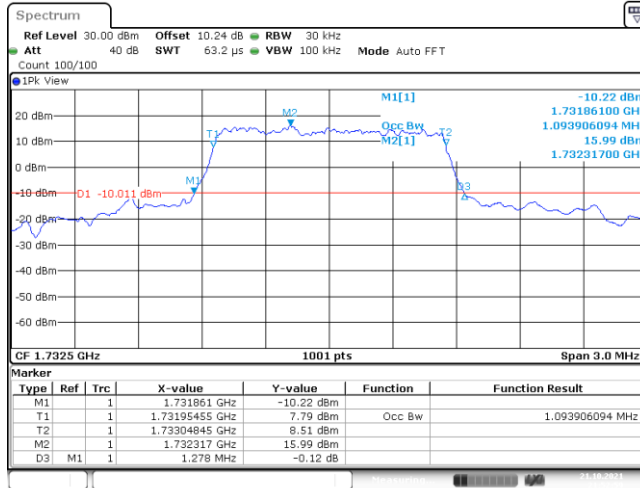
APPENDIX B.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH FOR M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	20175	QPSK	6	0	Low	1.094	1.278	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	1.091	1.236	PASS
Band4	3MHz	20175	QPSK	6	0	Low	1.103	1.296	PASS
Band4	3MHz	20175	16QAM	6	0	Low	1.103	1.290	PASS
Band4	5MHz	20175	QPSK	6	0	Low	1.109	1.310	PASS
Band4	5MHz	20175	16QAM	6	0	Low	1.109	1.310	PASS
Band4	10MHz	20175	QPSK	6	0	Low	1.119	1.320	PASS
Band4	10MHz	20175	16QAM	6	0	Low	1.119	1.320	PASS
Band4	15MHz	20175	QPSK	6	0	Low	1.139	1.320	PASS
Band4	15MHz	20175	16QAM	6	0	Low	1.139	1.320	PASS
Band4	20MHz	20175	QPSK	6	0	Low	1.159	1.400	PASS
Band4	20MHz	20175	16QAM	6	0	Low	1.119	1.360	PASS

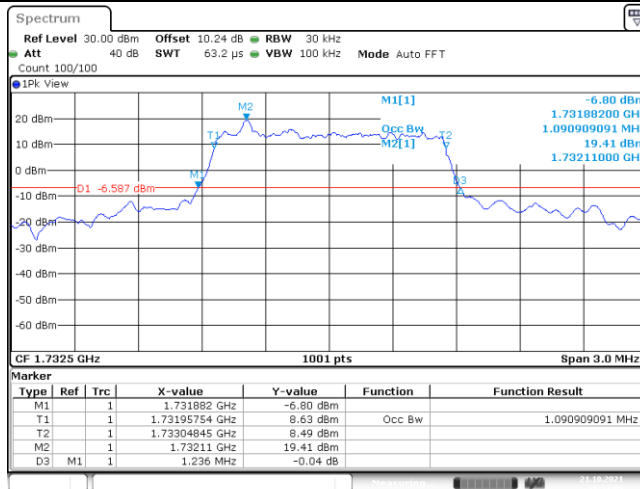
Test Graphs

Band4-1.4MHz-QPSK-20175-6-0-Low-1.094-1.278-PASS



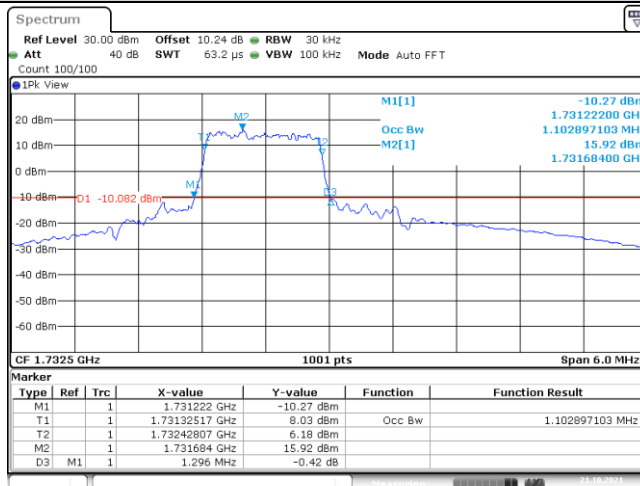
Date: 21.OCT.2021 21:52:59

Band4-1.4MHz-16QAM-20175-6-0-Low-1.091-1.236-PASS



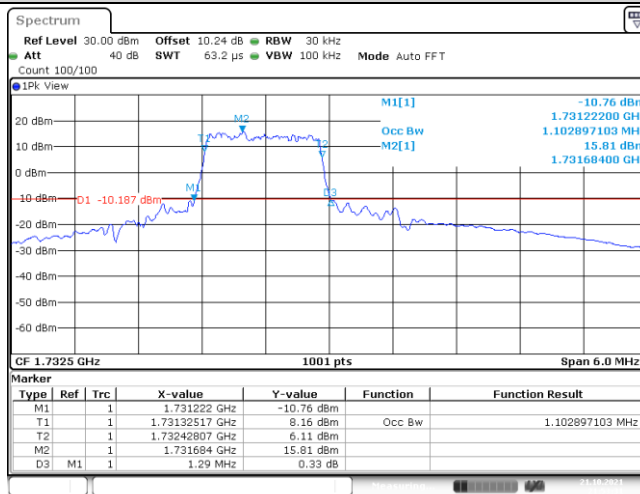
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Band4-3MHz-QPSK-20175-6-0-Low-1.103-1.296-PASS



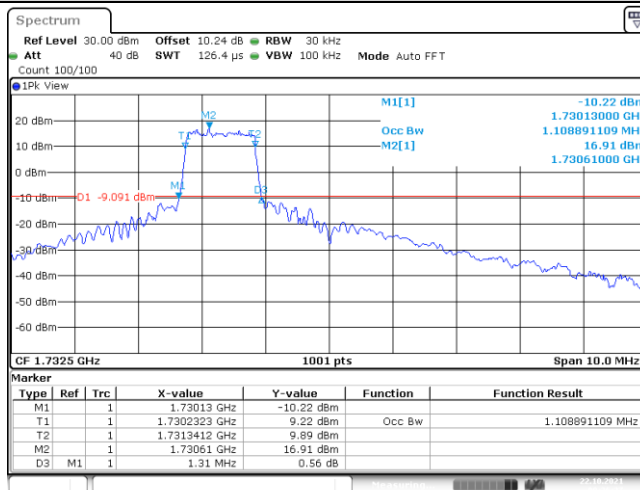
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Band4-3MHz-16QAM-20175-6-0-Low-1.103-1.290-PASS



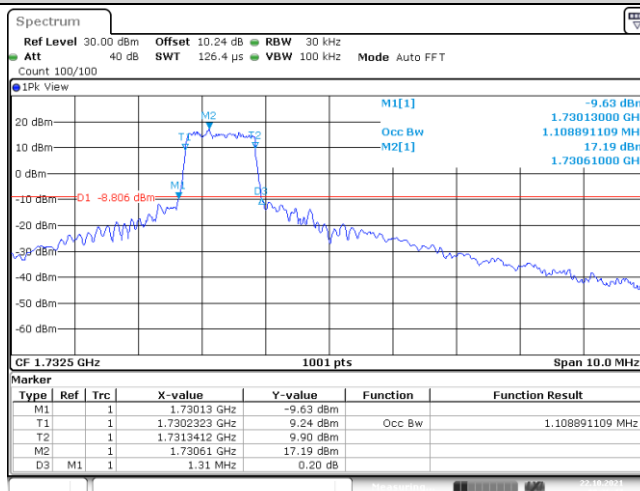
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Band4-5MHz-QPSK-20175-6-0-Low-1.109-1.310-PASS



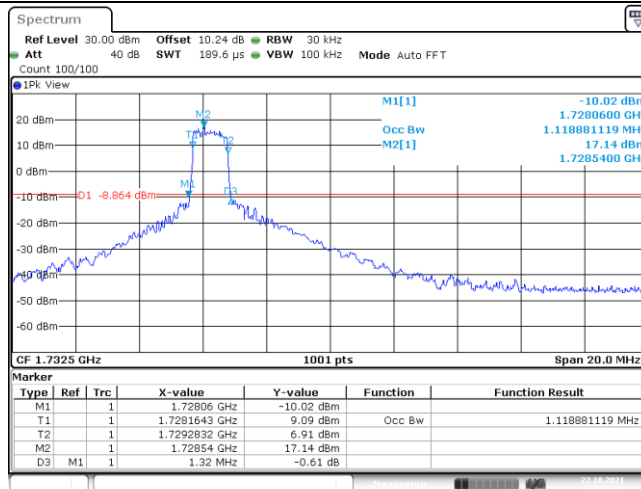
Date: 22.OCT.2021 09:26:37

Band4-5MHz-16QAM-20175-6-0-Low-1.109-1.310-PASS

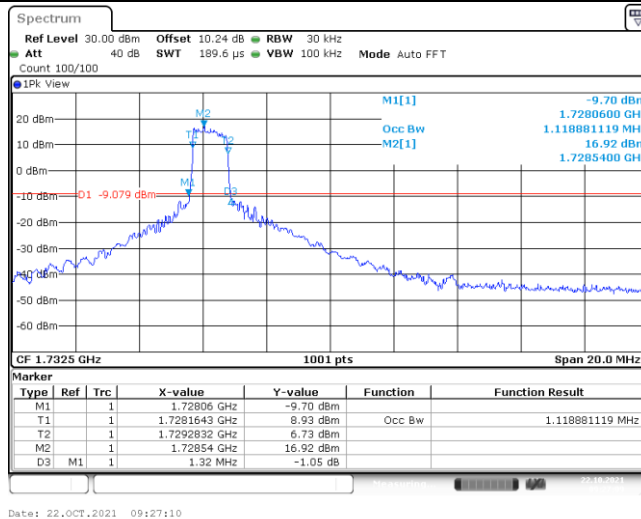


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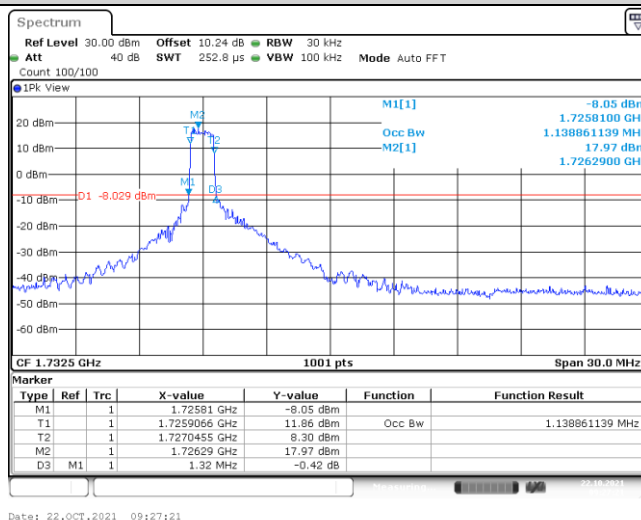
Band4-10MHz-QPSK-20175-6-0-Low-1.119-1.320-PASS



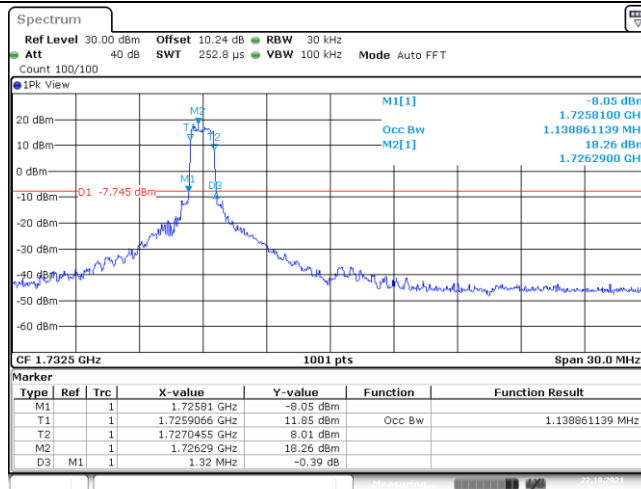
Band4-10MHz-16QAM-20175-6-0-Low-1.119-1.320-PASS



Band4-15MHz-QPSK-20175-6-0-Low-1.139-1.320-PASS

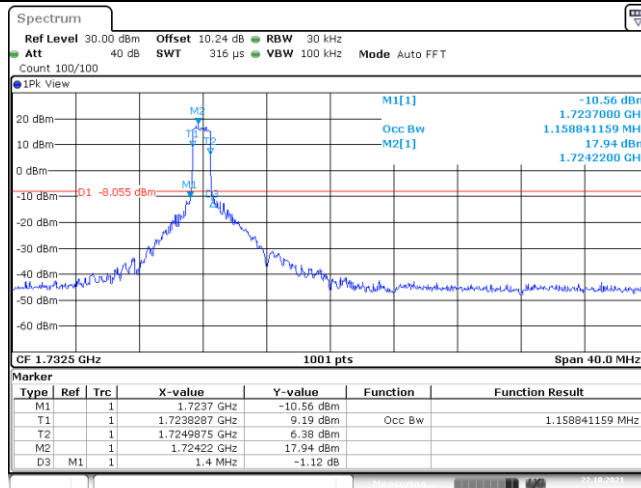


Band4-15MHz-16QAM-20175-6-0-Low-1.139-1.320-PASS



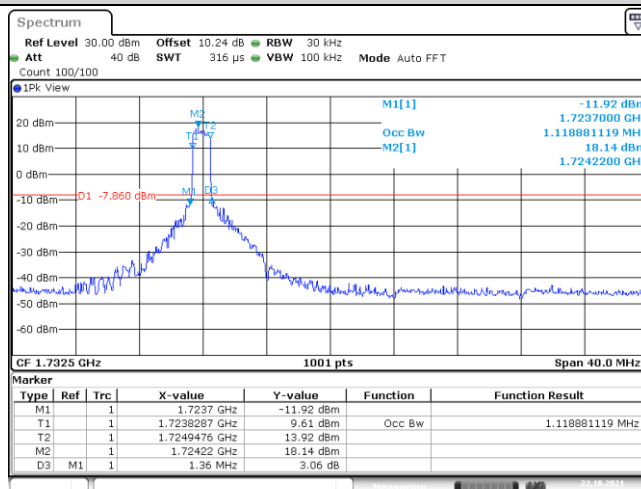
Date: 22.OCT.2021 09:27:31

Band4-20MHz-QPSK-20175-6-0-Low-1.159-1.400-PASS



Date: 22.OCT.2021 09:27:44

Band4-20MHz-16QAM-20175-6-0-Low-1.119-1.360-PASS



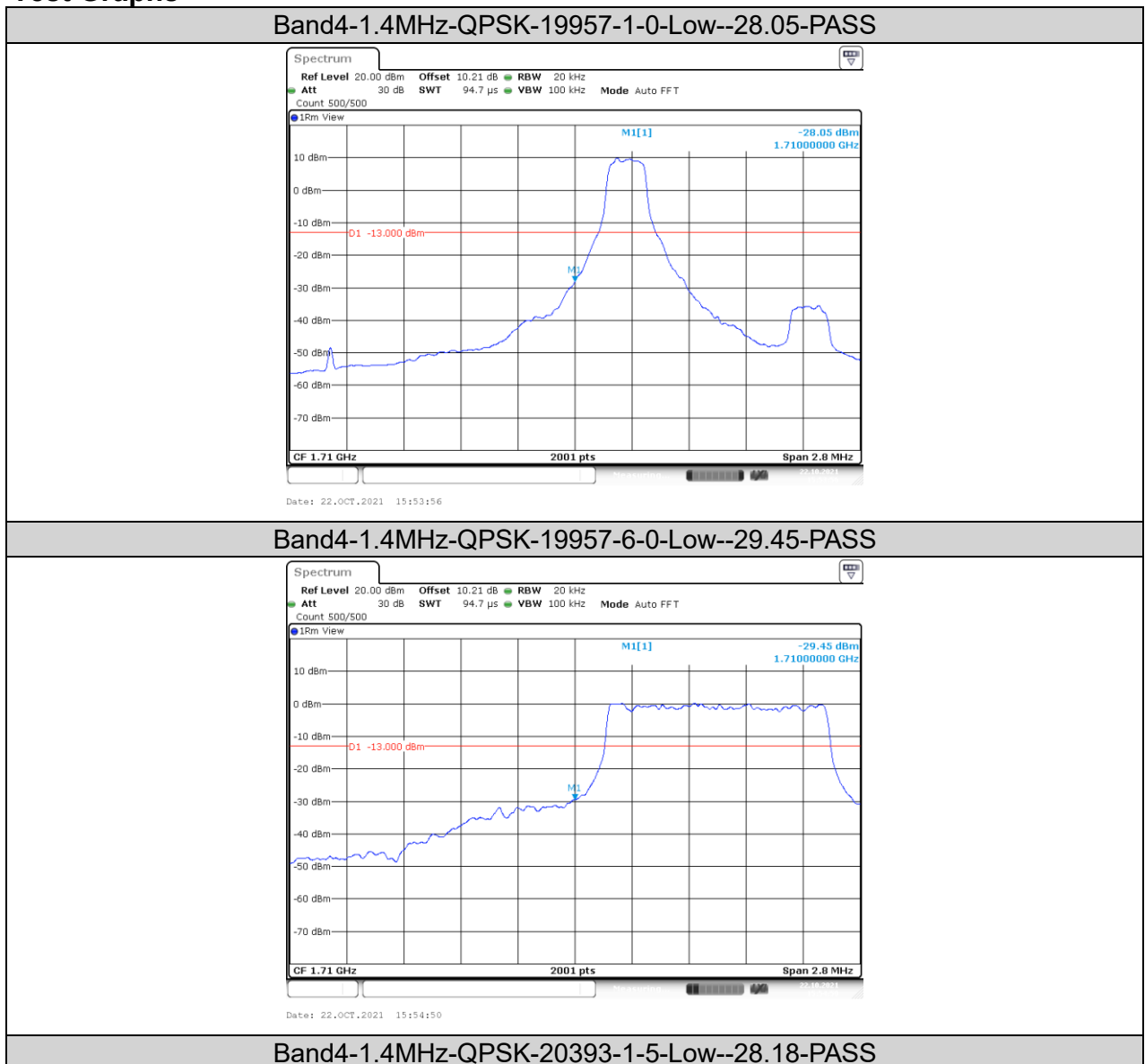
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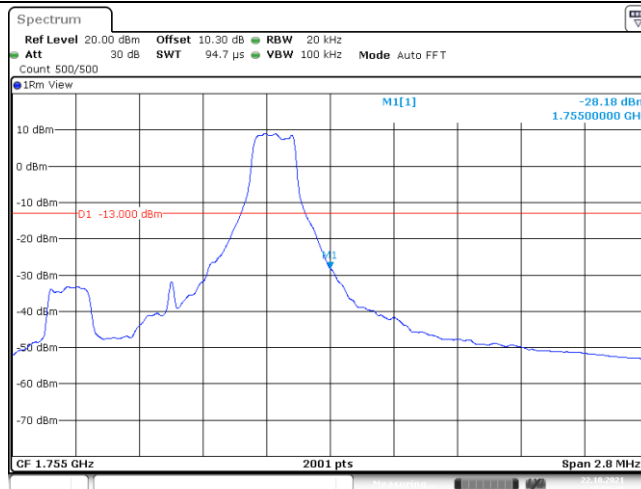
APPENDIX B.4: BAND EDGE FOR M1

Test Result

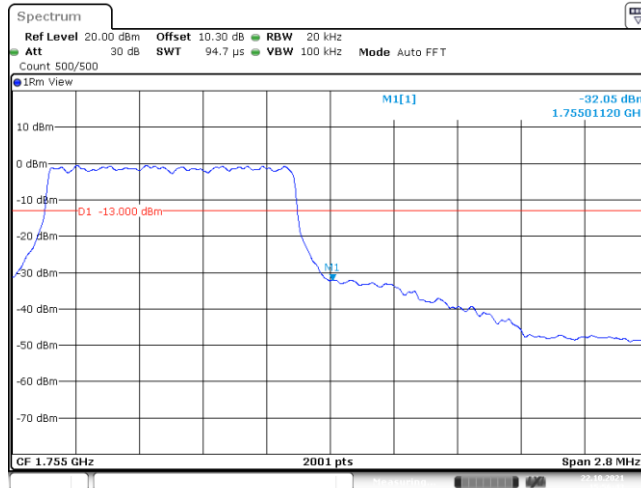
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	-28.05	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	-29.45	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	-28.18	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	-32.05	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	-29.44	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	-29.33	PASS
Band4	1.4MHz	20393	16QAM	1	5	Low	-29.64	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	-31.95	PASS

Test Graphs

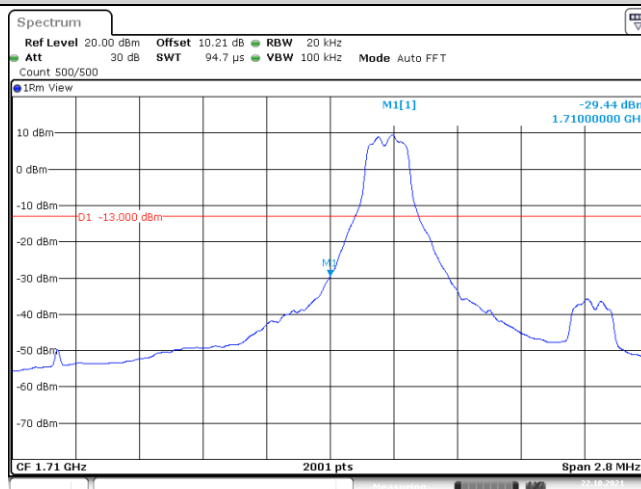




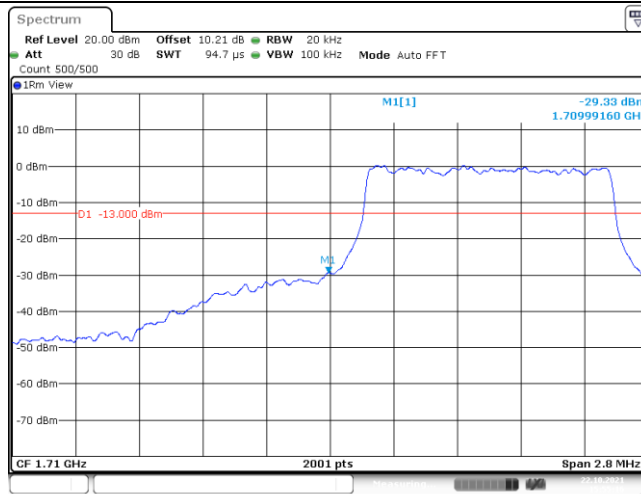
Band4-1.4MHz-QPSK-20393-6-0-Low--32.05-PASS



Band4-1.4MHz-16QAM-19957-1-0-Low--29.44-PASS

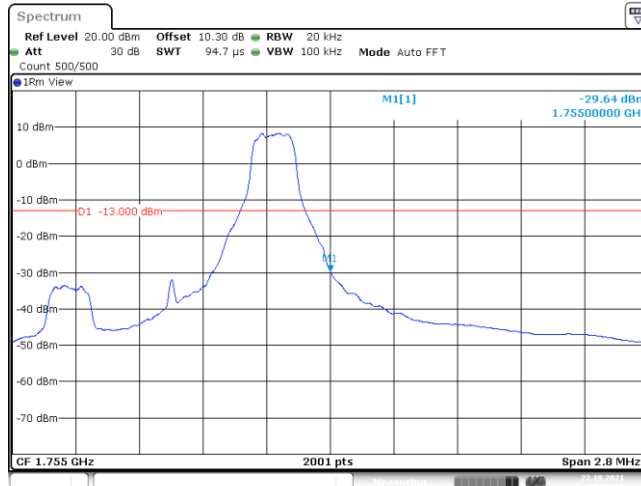


Band4-1.4MHz-16QAM-19957-6-0-Low--29.33-PASS



Date: 22.OCT.2021 15:55:17

Band4-1.4MHz-16QAM-20393-1-5-Low--29.64-PASS



Date: 22.OCT.2021 15:56:16

Band4-1.4MHz-16QAM-20393-6-0-Low--31.95-PASS



Date: 22.OCT.2021 15:57:10

APPENDIX B.5: CONDUCTED SPURIOUS EMISSION FOR M1

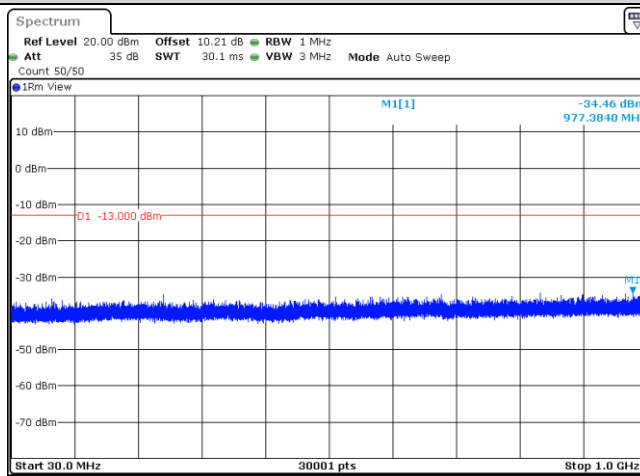
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	30	1000	-34.46	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	1000	5000	-32.58	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	5000	12000	-45.3	PASS
Band4	1.4MHz	19957	QPSK	1	0	Low	12000	26500	-48.87	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	30	1000	-34.3	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	1000	5000	-36.19	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	5000	12000	-50.41	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	12000	26500	-48.87	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	30	1000	-34.25	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	1000	5000	-33.67	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	5000	12000	-44.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	12000	26500	-48.76	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	30	1000	-34.47	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	1000	5000	-36.97	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	5000	12000	-49.57	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	12000	26500	-48.77	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	30	1000	-33.98	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	1000	5000	-34.49	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	5000	12000	-45.32	PASS
Band4	1.4MHz	20393	QPSK	1	5	Low	12000	26500	-48.8	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	30	1000	-34.13	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	1000	5000	-37.39	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	5000	12000	-50.88	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	12000	26500	-48.87	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	30	1000	-34.49	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	1000	5000	-33.69	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	5000	12000	-45.96	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	12000	26500	-48.97	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	30	1000	-33.94	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	1000	5000	-36.1	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	5000	12000	-50.56	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	12000	26500	-48.95	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	30	1000	-34.55	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	1000	5000	-34.68	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	5000	12000	-44.77	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	12000	26500	-48.75	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	30	1000	-34.61	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	1000	5000	-36.77	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	5000	12000	-49.49	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	12000	26500	-48.75	PASS
Band4	1.4MHz	20393	16QAM	1	5	Low	30	1000	-33.97	PASS

Band4	1.4MHz	20393	16QAM	1	5	Low	1000	5000	-35.04	PASS
Band4	1.4MHz	20393	16QAM	1	5	Low	5000	12000	-45.93	PASS
Band4	1.4MHz	20393	16QAM	1	5	Low	12000	26500	-48.53	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	30	1000	-33.59	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	1000	5000	-37.74	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	5000	12000	-51.11	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	12000	26500	-48.86	PASS

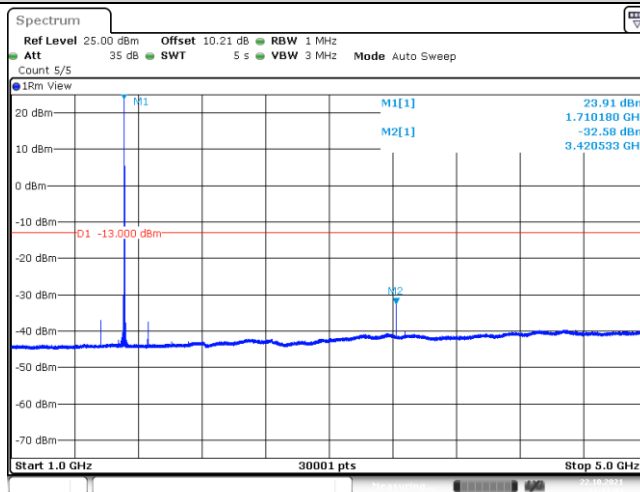
Test Graphs

Band4-1.4MHz-QPSK-19957-1-0-Low-30-1000--34.46-PASS



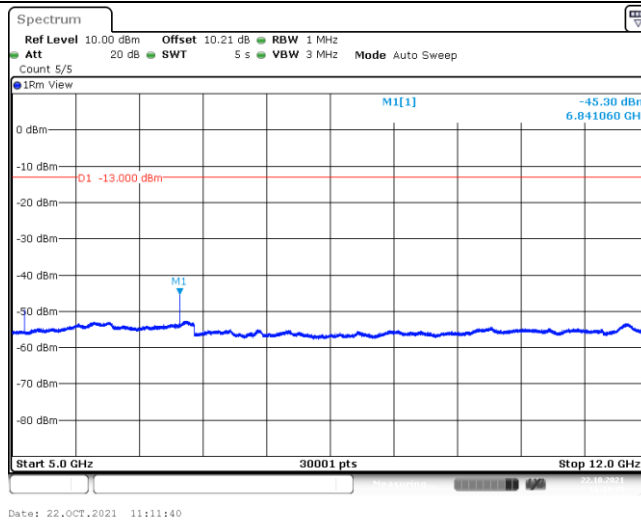
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Band4-1.4MHz-QPSK-19957-1-0-Low-1000-5000--32.58-PASS

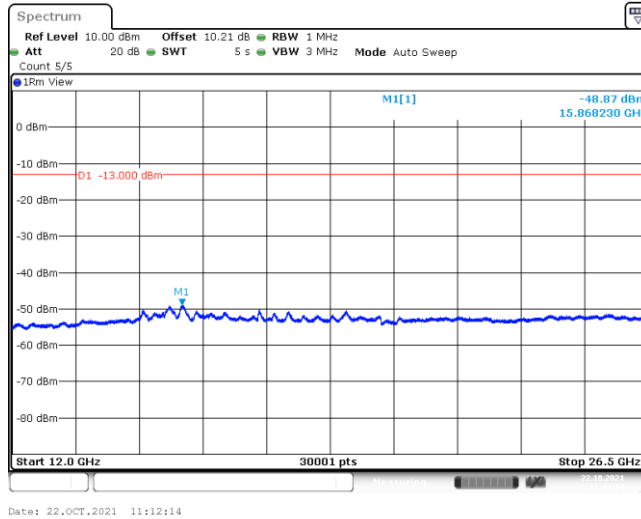


Date: 22.OCT.2021 11:11:05

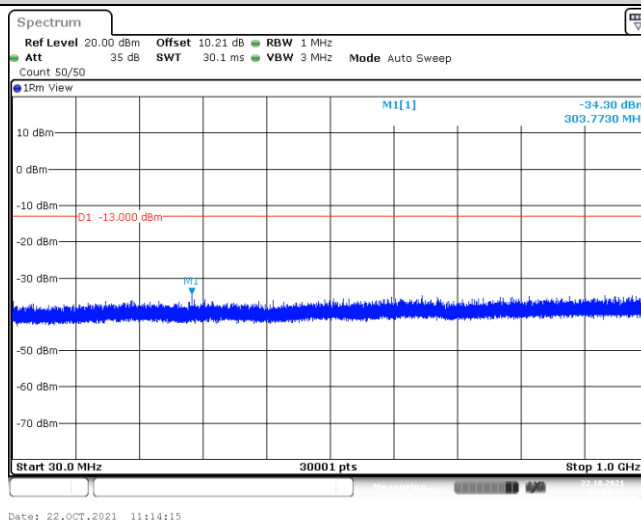
Band4-1.4MHz-QPSK-19957-1-0-Low-5000-12000--45.3-PASS



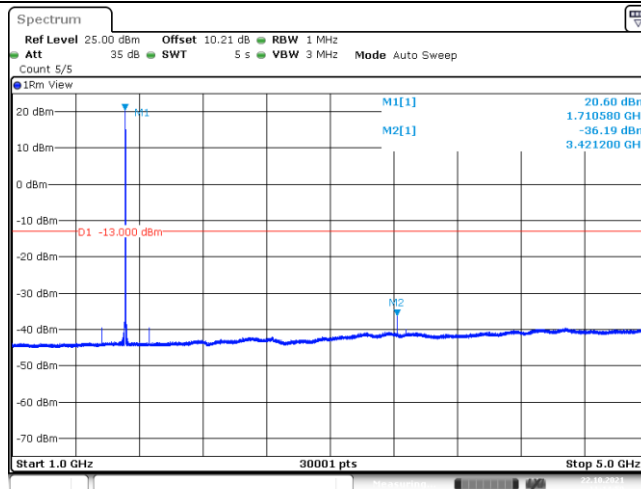
Band4-1.4MHz-QPSK-19957-1-0-Low-12000-26500--48.87-PASS



Band4-1.4MHz-QPSK-19957-6-0-Low-30-1000--34.3-PASS

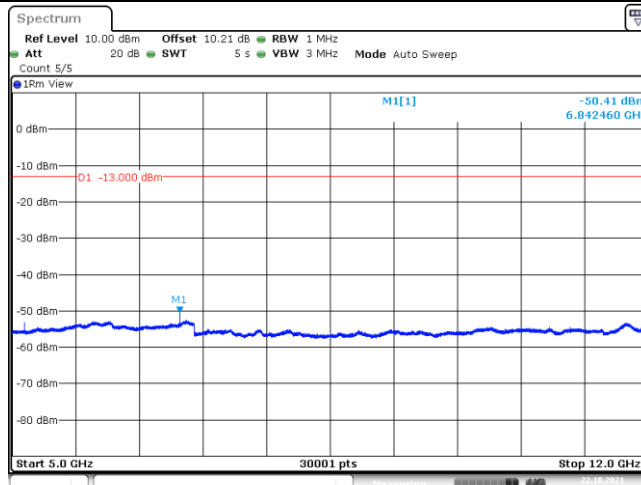


Band4-1.4MHz-QPSK-19957-6-0-Low-1000-5000--36.19-PASS



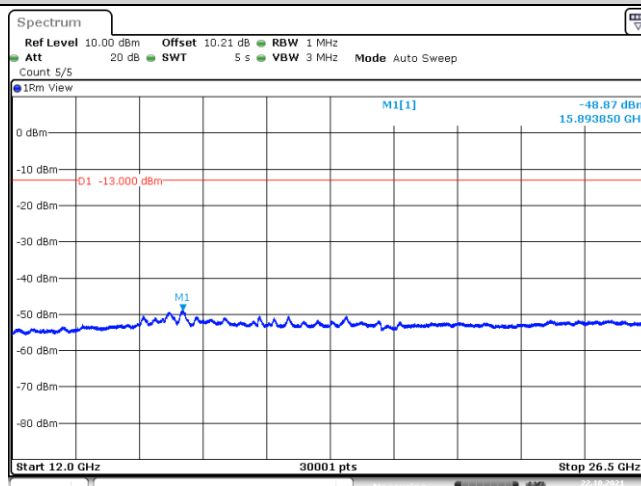
Date: 22.OCT.2021 11:14:51

Band4-1.4MHz-QPSK-19957-6-0-Low-5000-12000--50.41-PASS



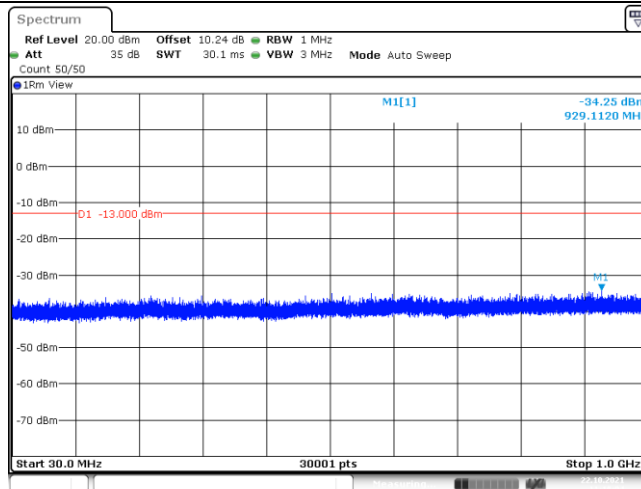
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Band4-1.4MHz-QPSK-19957-6-0-Low-12000-26500--48.87-PASS



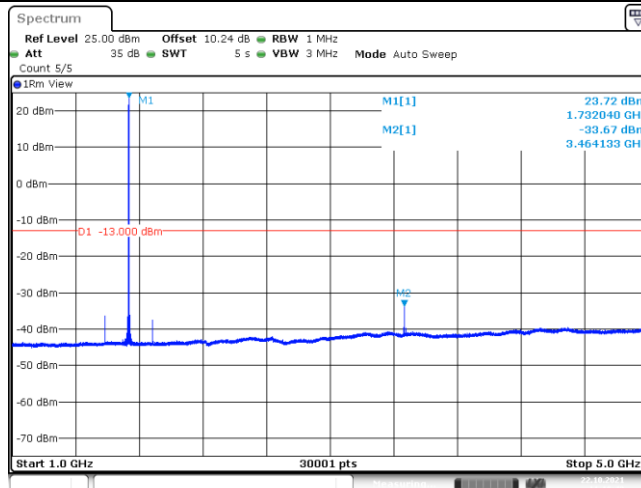
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Band4-1.4MHz-QPSK-20175-1-0-Low-30-1000--34.25-PASS



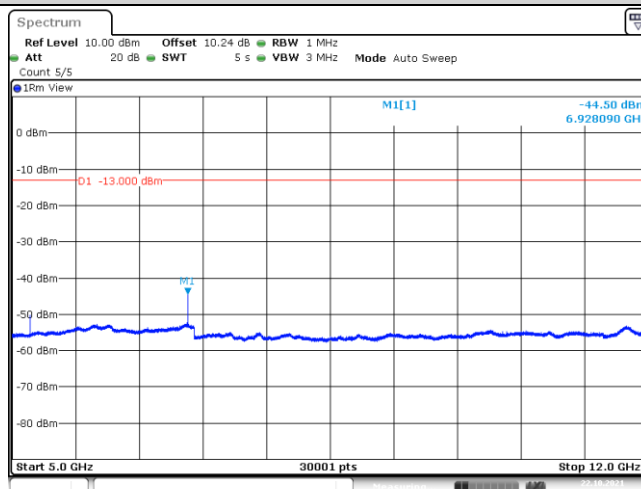
Date: 22.OCT.2021 11:18:05

Band4-1.4MHz-QPSK-20175-1-0-Low-1000-5000--33.67-PASS



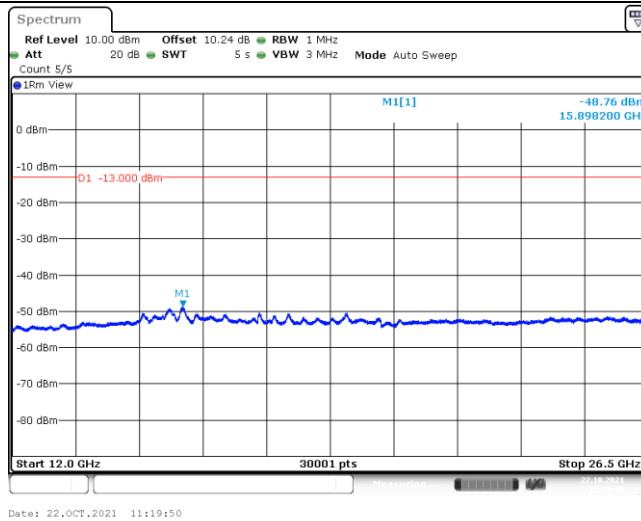
Date: 22.OCT.2021 11:18:40

Band4-1.4MHz-QPSK-20175-1-0-Low-5000-12000--44.5-PASS

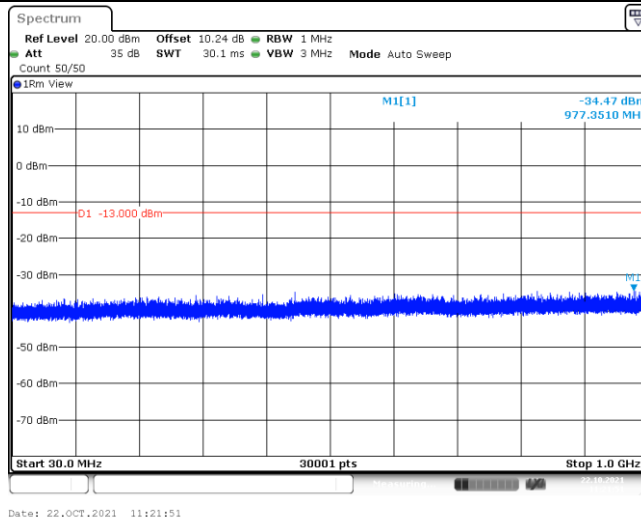


Date: 22.OCT.2021 11:19:15

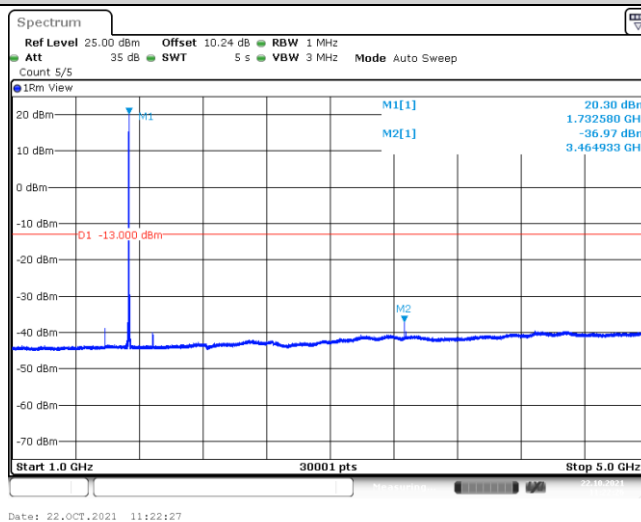
Band4-1.4MHz-QPSK-20175-1-0-Low-12000-26500--48.76-PASS



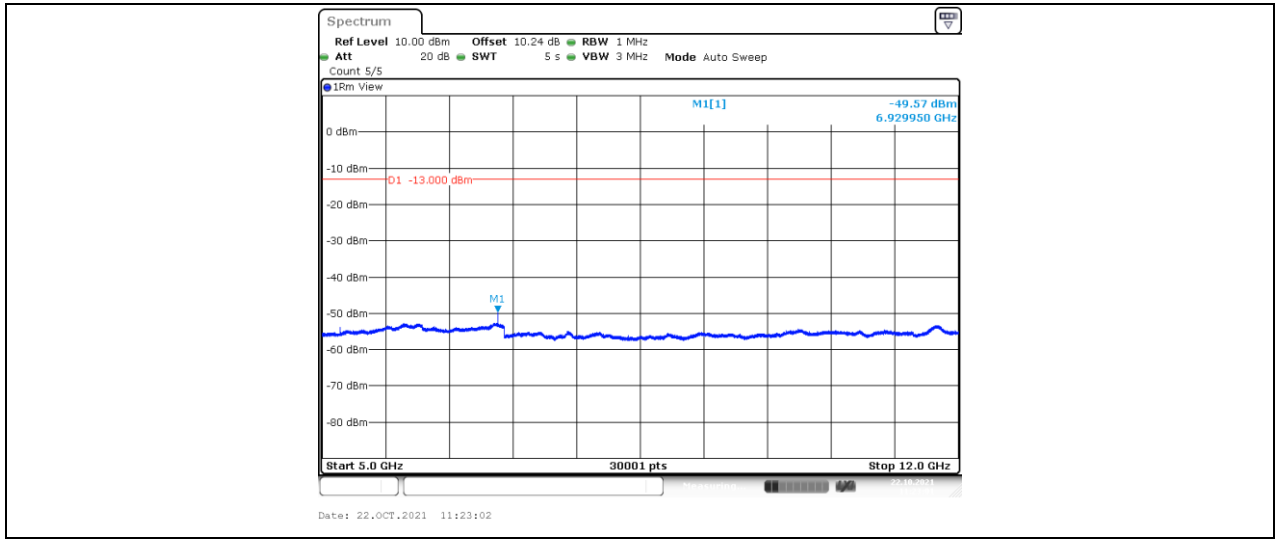
Band4-1.4MHz-QPSK-20175-6-0-Low-30-1000--34.47-PASS



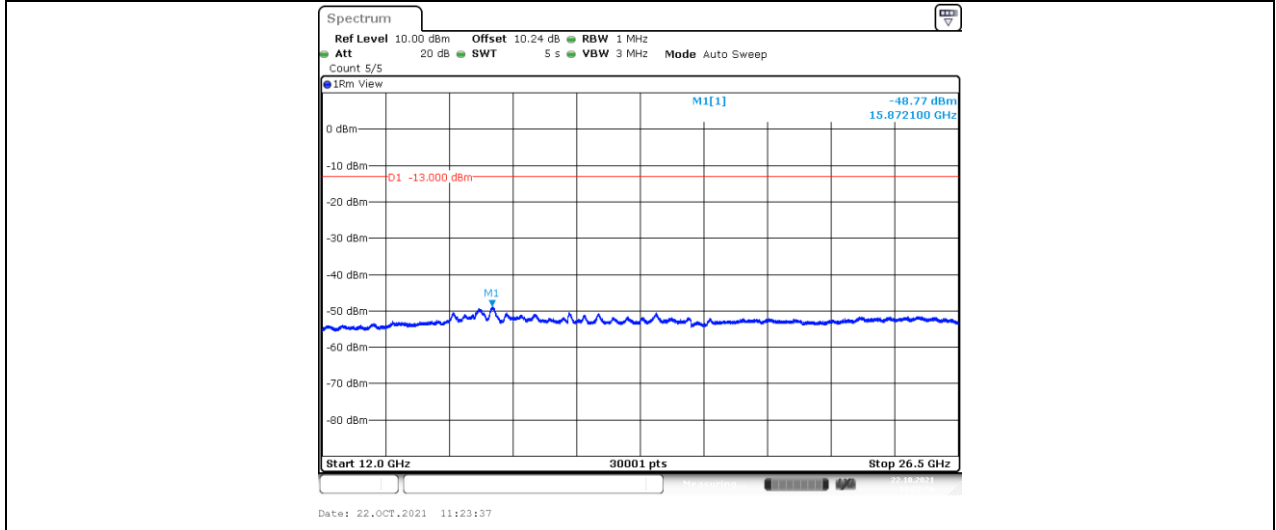
Band4-1.4MHz-QPSK-20175-6-0-Low-1000-5000--36.97-PASS



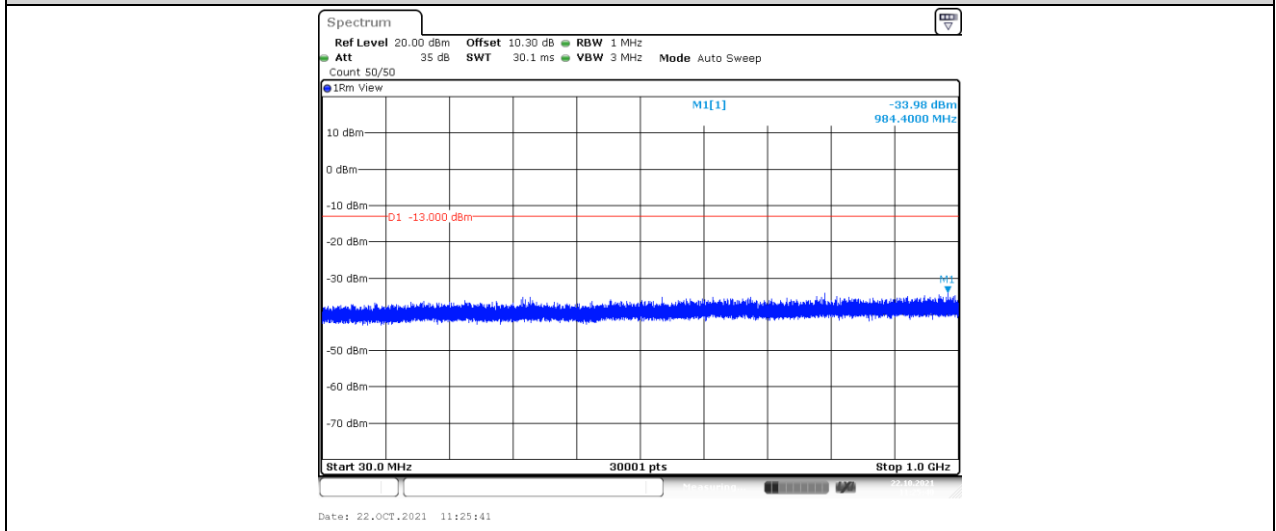
Band4-1.4MHz-QPSK-20175-6-0-Low-5000-12000--49.57-PASS



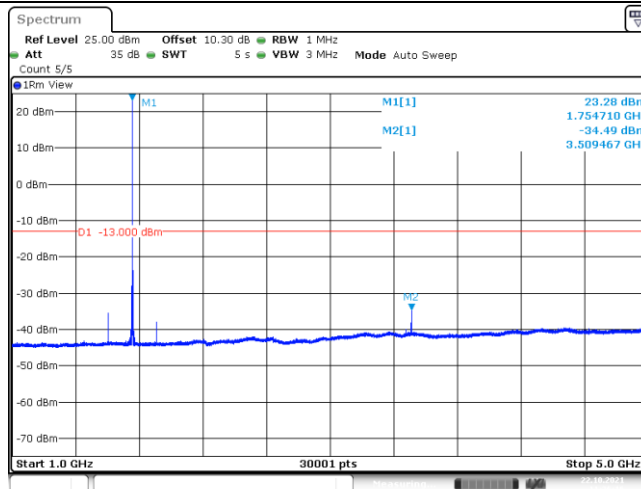
Band4-1.4MHz-QPSK-20175-6-0-Low-12000-26500--48.77-PASS



Band4-1.4MHz-QPSK-20393-1-5-Low-30-1000--33.98-PASS

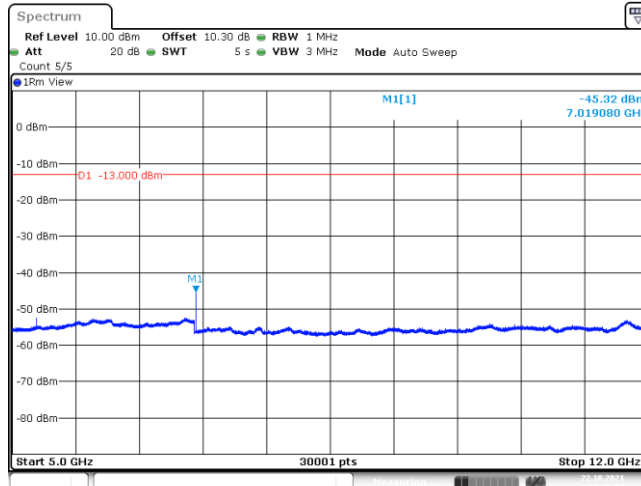


Band4-1.4MHz-QPSK-20393-1-5-Low-1000-5000--34.49-PASS



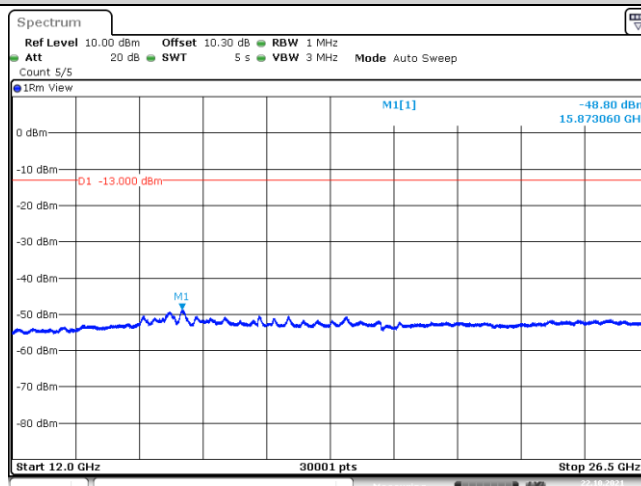
Date: 22.OCT.2021 11:26:16

Band4-1.4MHz-QPSK-20393-1-5-Low-5000-12000--45.32-PASS



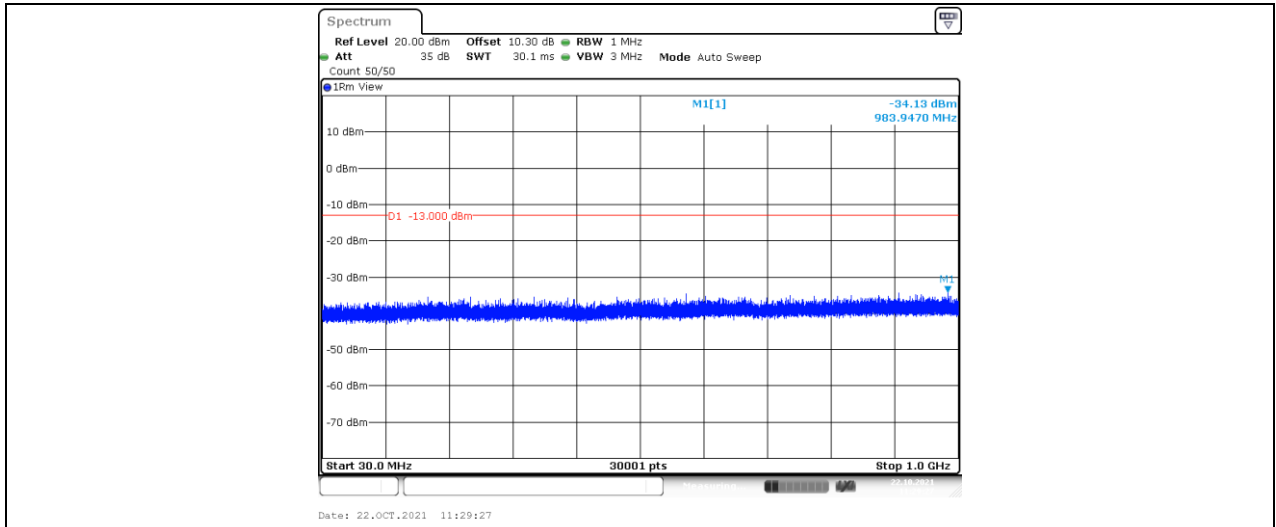
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Band4-1.4MHz-QPSK-20393-1-5-Low-12000-26500--48.8-PASS

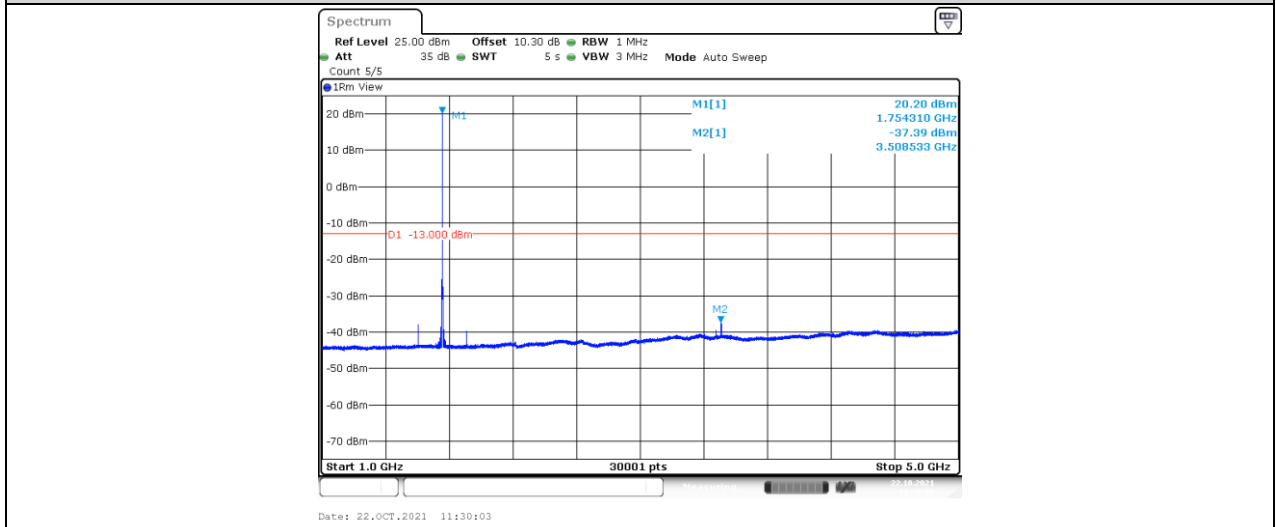


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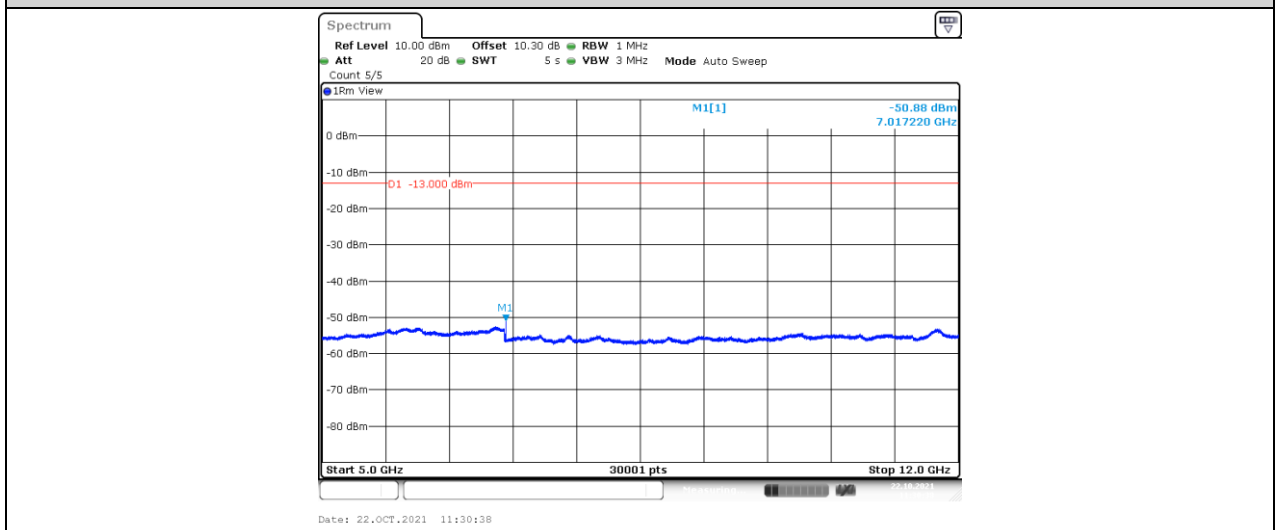
Band4-1.4MHz-QPSK-20393-6-0-Low-30-1000--34.13-PASS



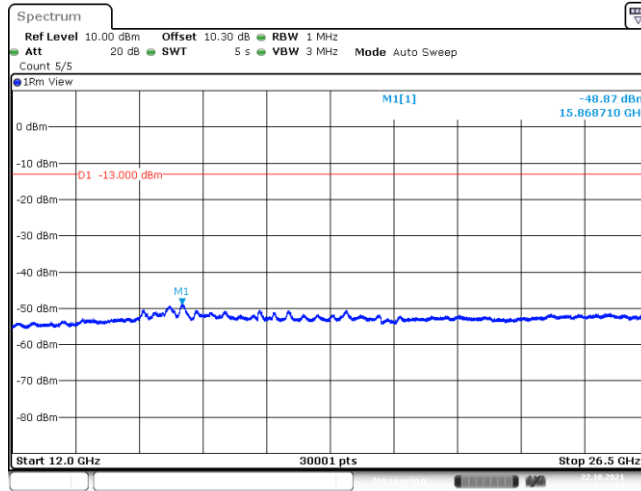
Band4-1.4MHz-QPSK-20393-6-0-Low-1000-5000--37.39-PASS



Band4-1.4MHz-QPSK-20393-6-0-Low-5000-12000--50.88-PASS

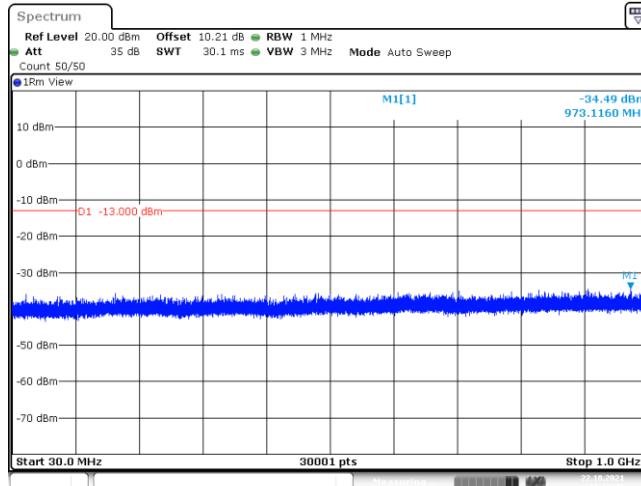


Band4-1.4MHz-QPSK-20393-6-0-Low-12000-26500--48.87-PASS



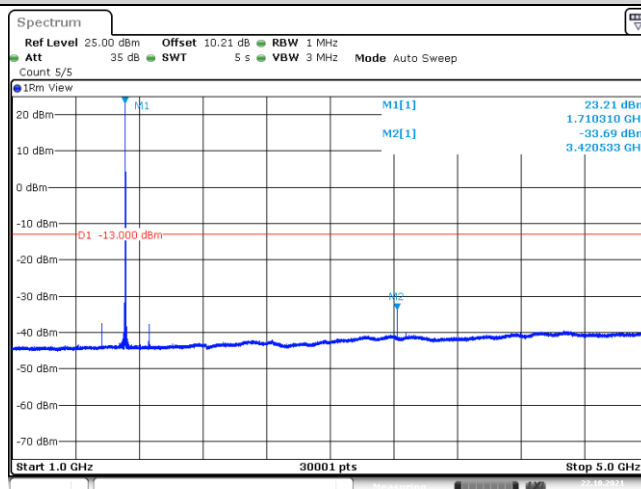
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Band4-1.4MHz-16QAM-19957-1-0-Low-30-1000--34.49-PASS



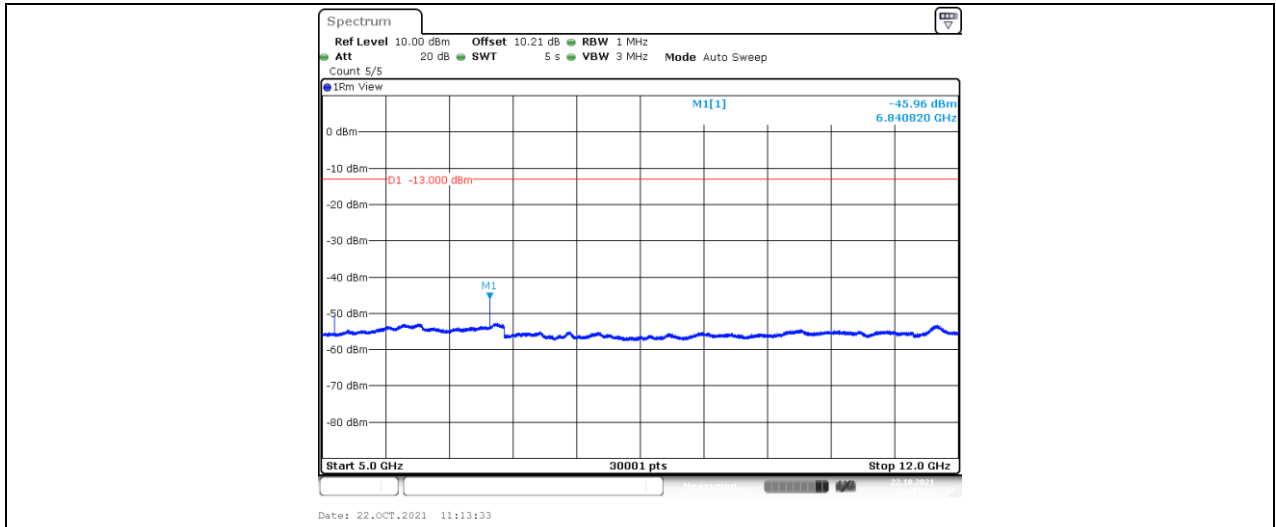
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Band4-1.4MHz-16QAM-19957-1-0-Low-1000-5000--33.69-PASS

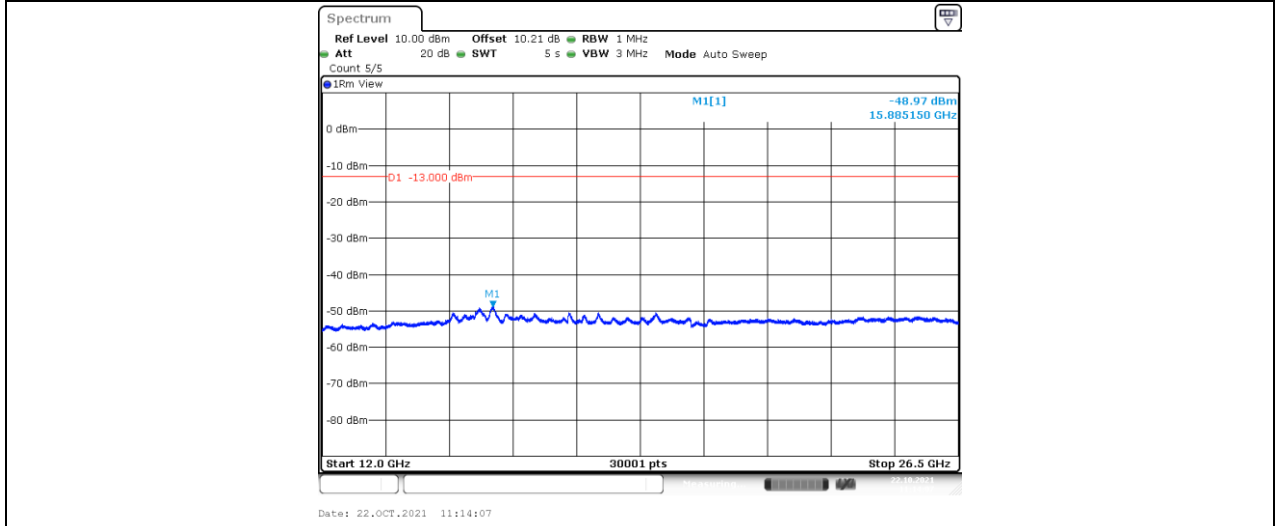


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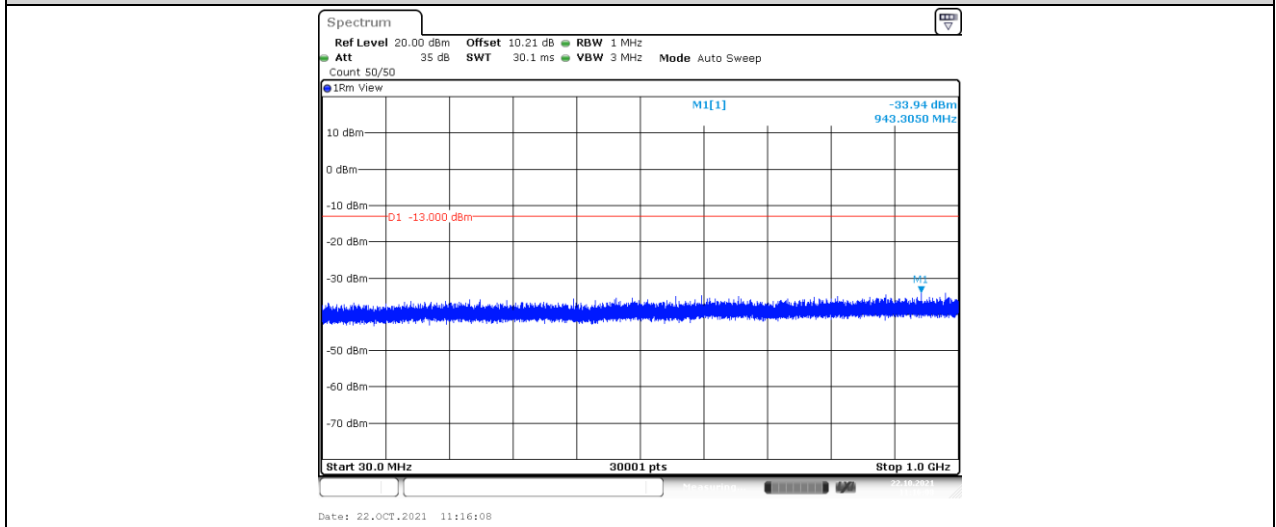
Band4-1.4MHz-16QAM-19957-1-0-Low-5000-12000--45.96-PASS



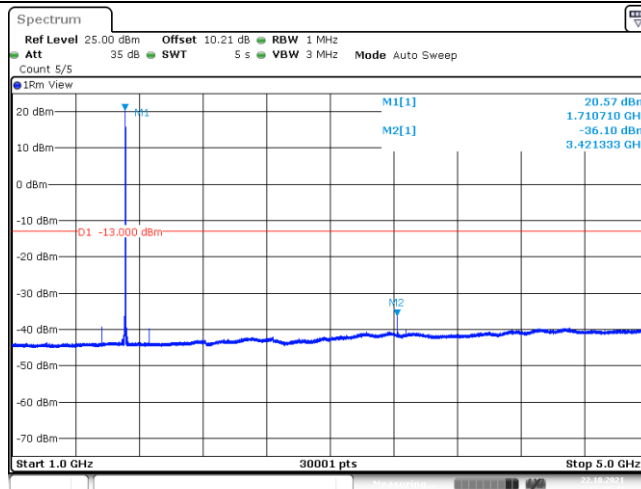
Band4-1.4MHz-16QAM-19957-1-0-Low-12000-26500--48.97-PASS



Band4-1.4MHz-16QAM-19957-6-0-Low-30-1000--33.94-PASS

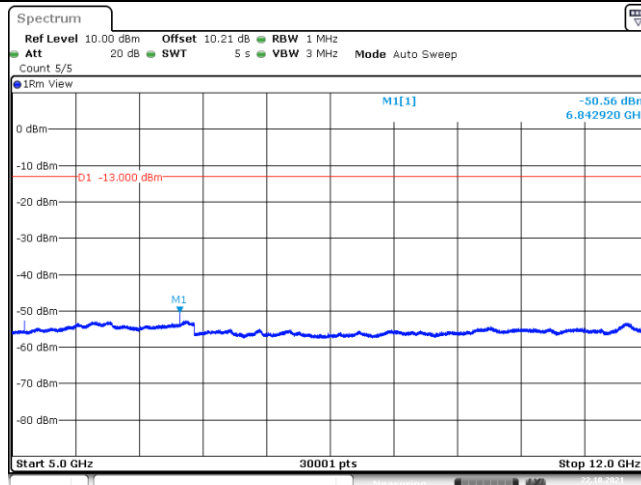


Band4-1.4MHz-16QAM-19957-6-0-Low-1000-5000--36.1-PASS



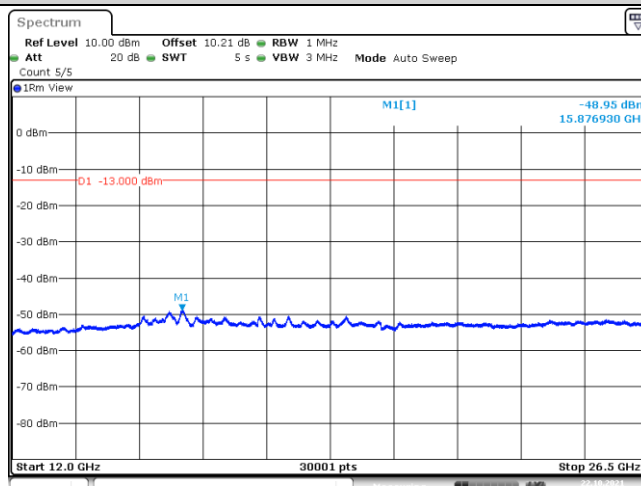
Date: 22.OCT.2021 11:16:44

Band4-1.4MHz-16QAM-19957-6-0-Low-5000-12000--50.56-PASS



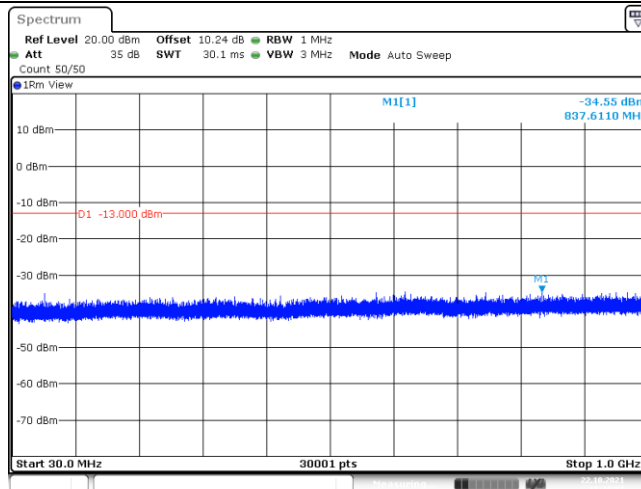
Date: 22.OCT.2021 11:17:19

Band4-1.4MHz-16QAM-19957-6-0-Low-12000-26500--48.95-PASS



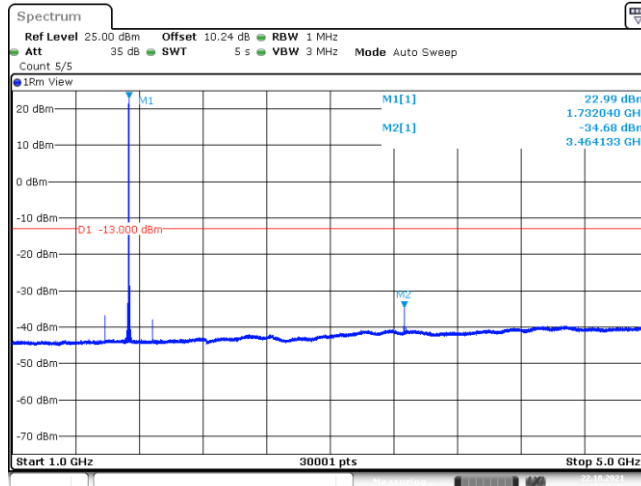
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Band4-1.4MHz-16QAM-20175-1-0-Low-30-1000--34.55-PASS



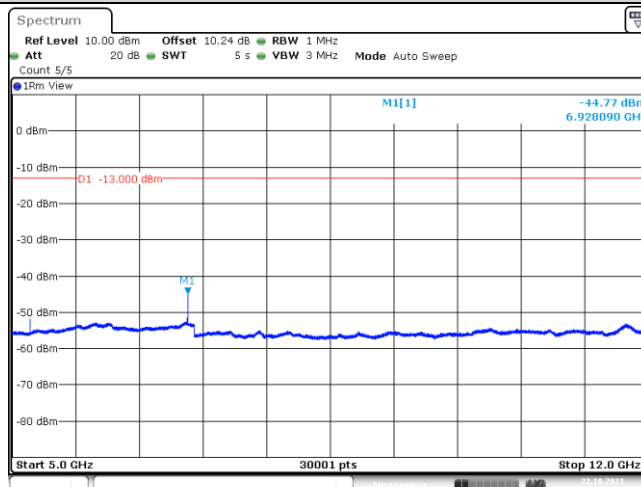
Date: 22.OCT.2021 11:19:58

Band4-1.4MHz-16QAM-20175-1-0-Low-1000-5000--34.68-PASS



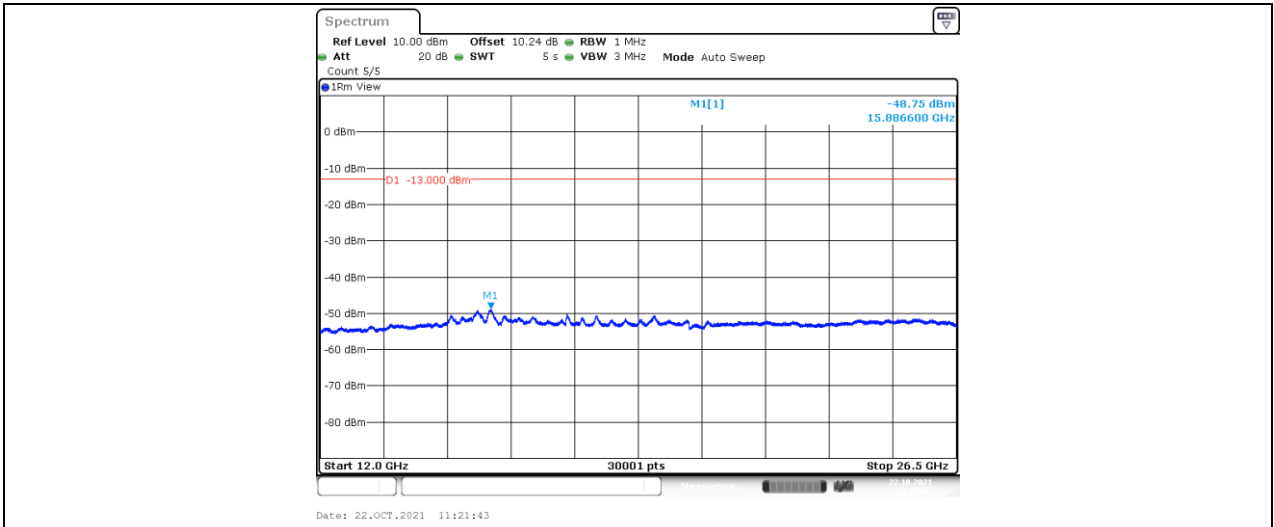
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Band4-1.4MHz-16QAM-20175-1-0-Low-5000-12000--44.77-PASS

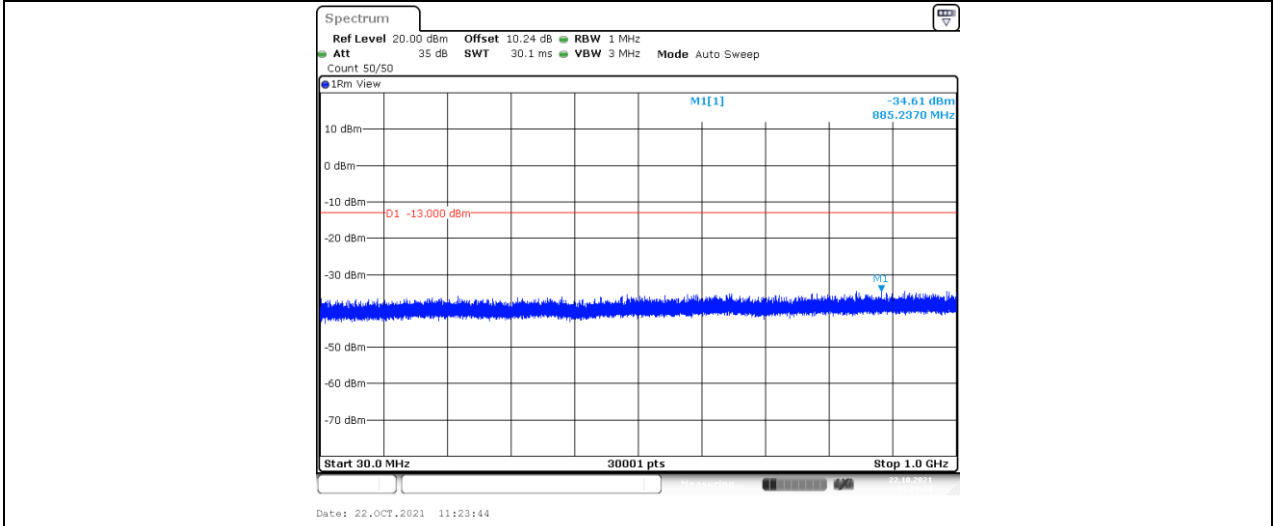


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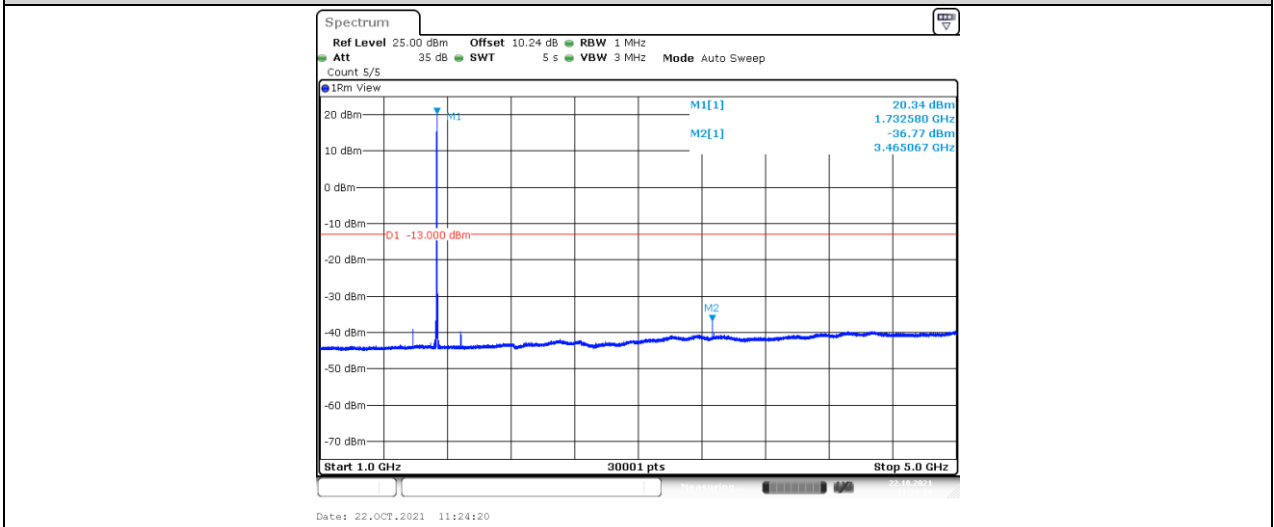
Band4-1.4MHz-16QAM-20175-1-0-Low-12000-26500--48.75-PASS



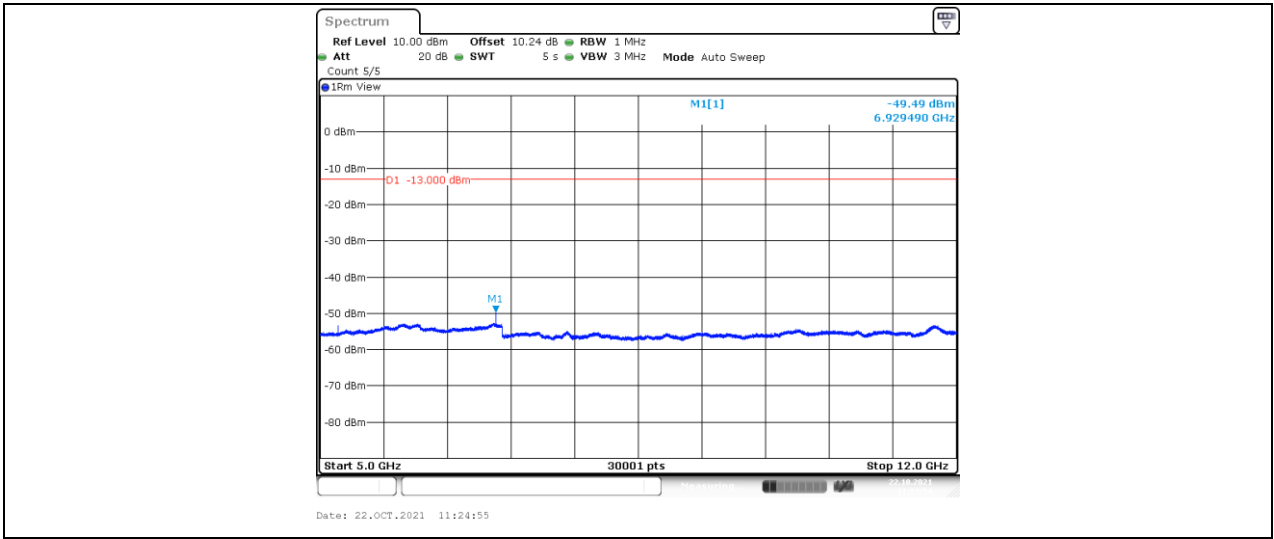
Band4-1.4MHz-16QAM-20175-6-0-Low-30-1000--34.61-PASS



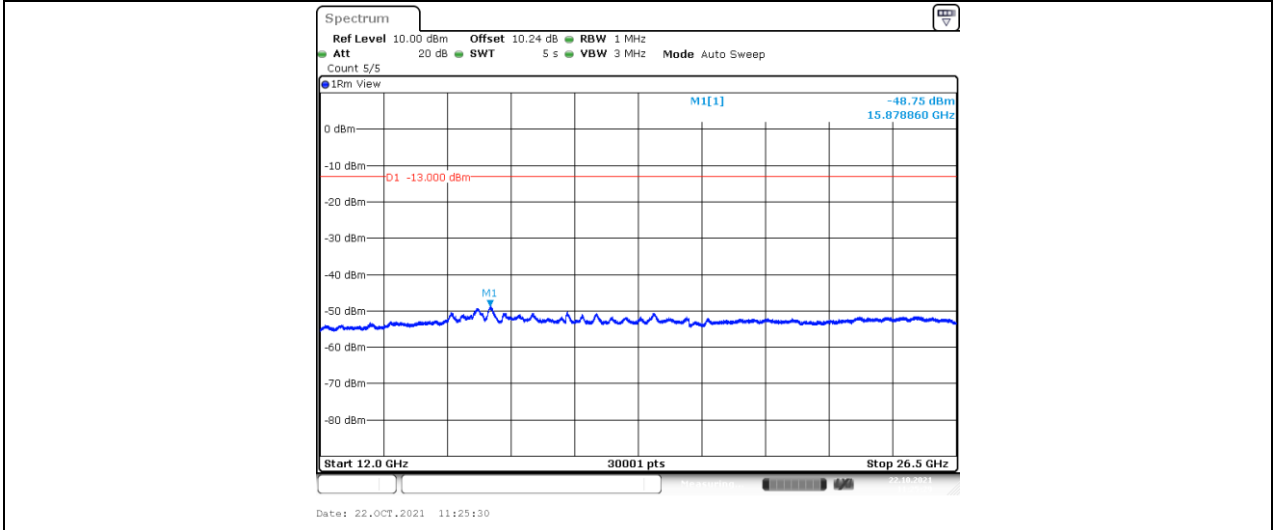
Band4-1.4MHz-16QAM-20175-6-0-Low-1000-5000--36.77-PASS



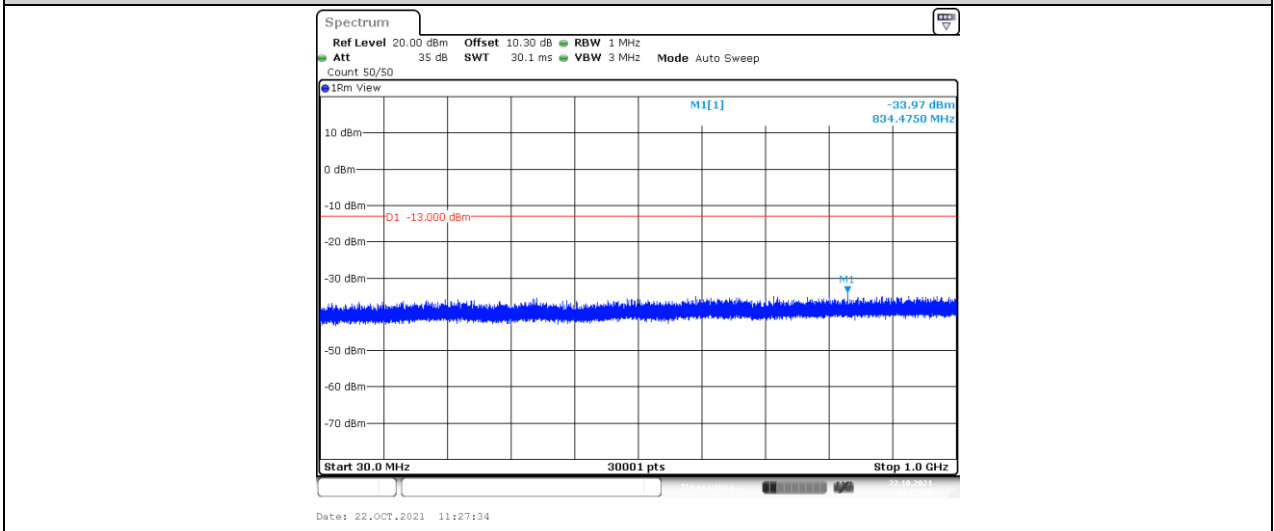
Band4-1.4MHz-16QAM-20175-6-0-Low-5000-12000--49.49-PASS



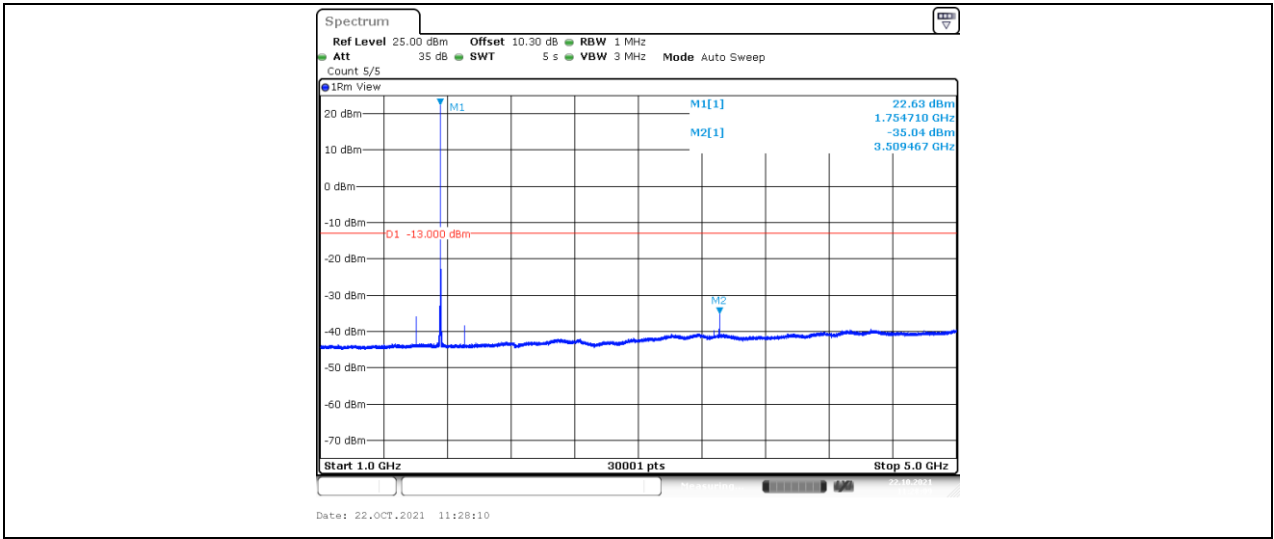
Band4-1.4MHz-16QAM-20175-6-0-Low-12000-26500--48.75-PASS



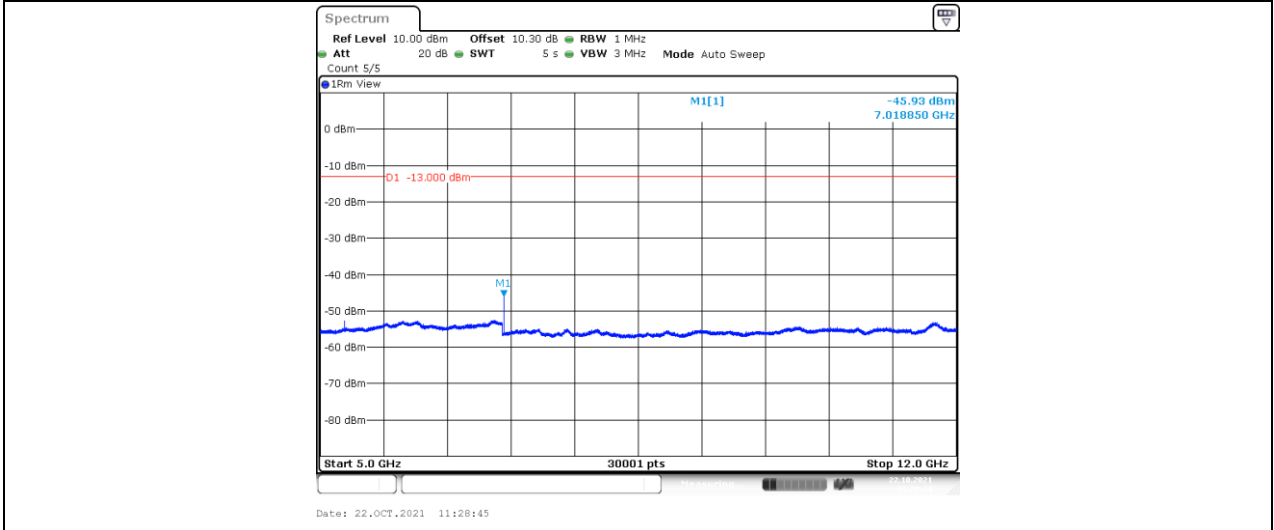
Band4-1.4MHz-16QAM-20393-1-5-Low-30-1000--33.97-PASS



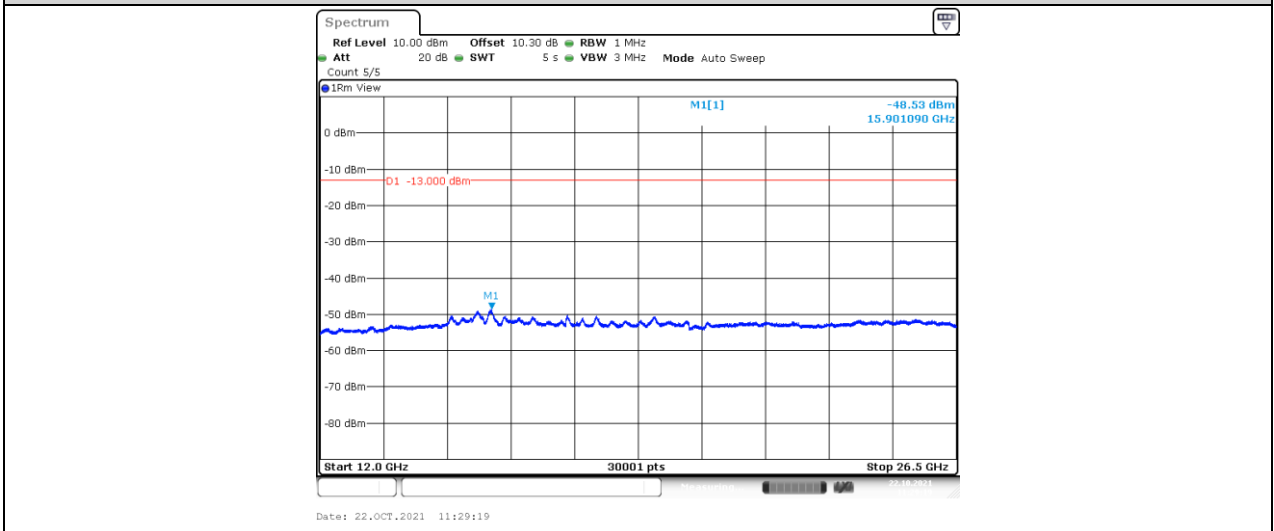
Band4-1.4MHz-16QAM-20393-1-5-Low-1000-5000--35.04-PASS



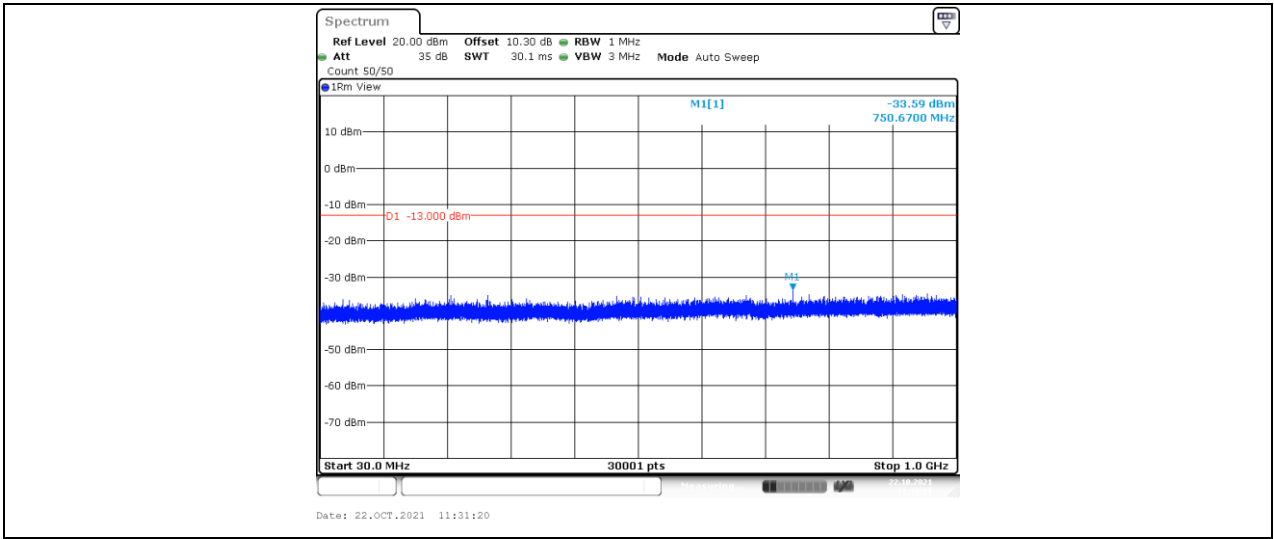
Band4-1.4MHz-16QAM-20393-1-5-Low-5000-12000--45.93-PASS



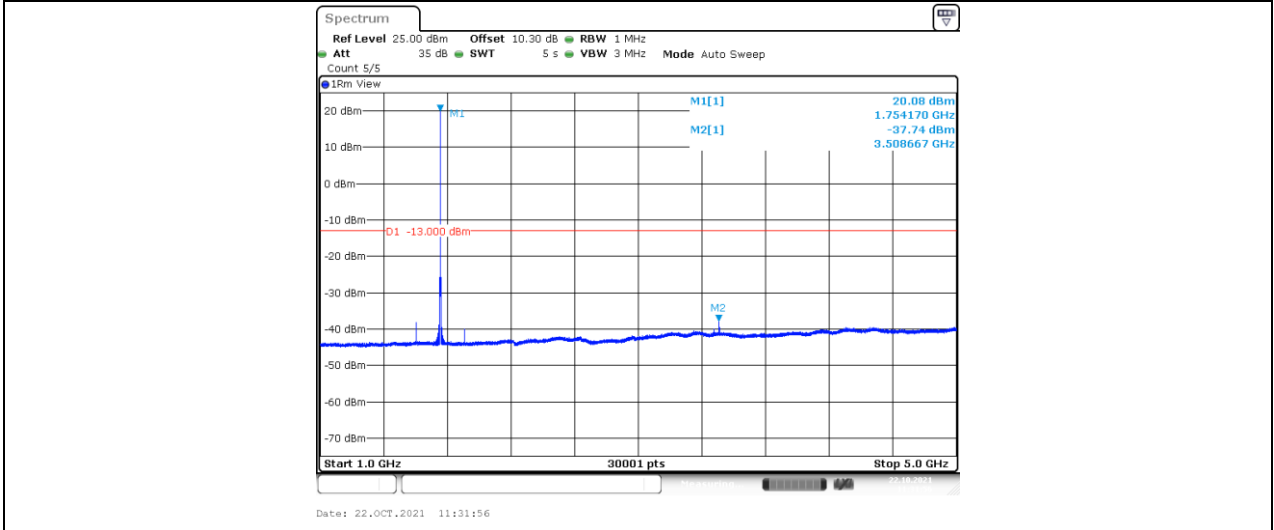
Band4-1.4MHz-16QAM-20393-1-5-Low-12000-26500--48.53-PASS



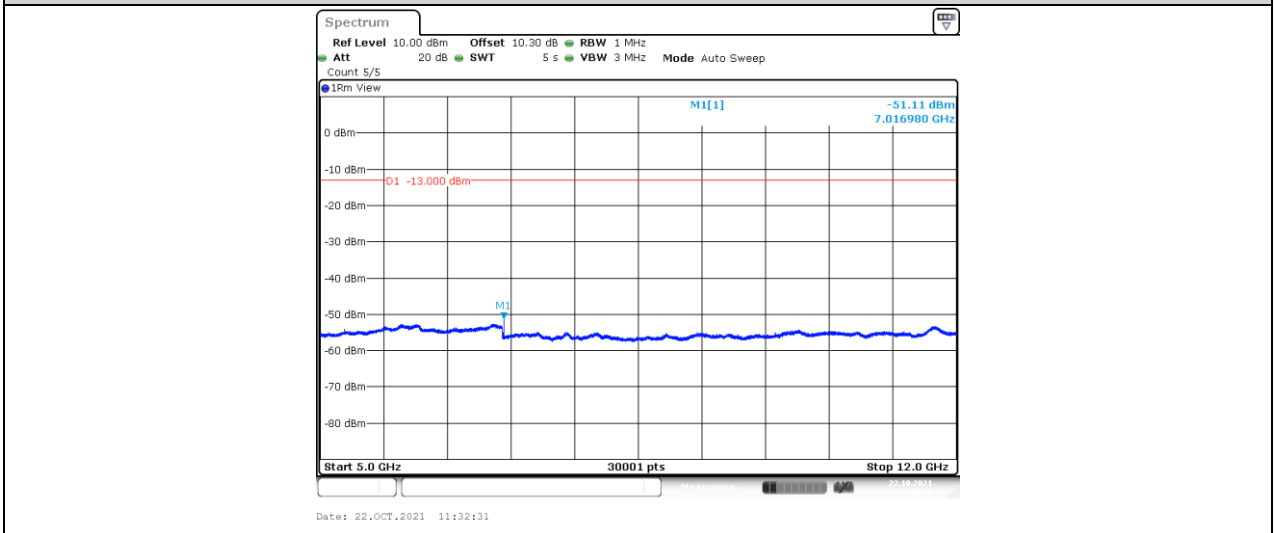
Band4-1.4MHz-16QAM-20393-6-0-Low-30-1000--33.59-PASS



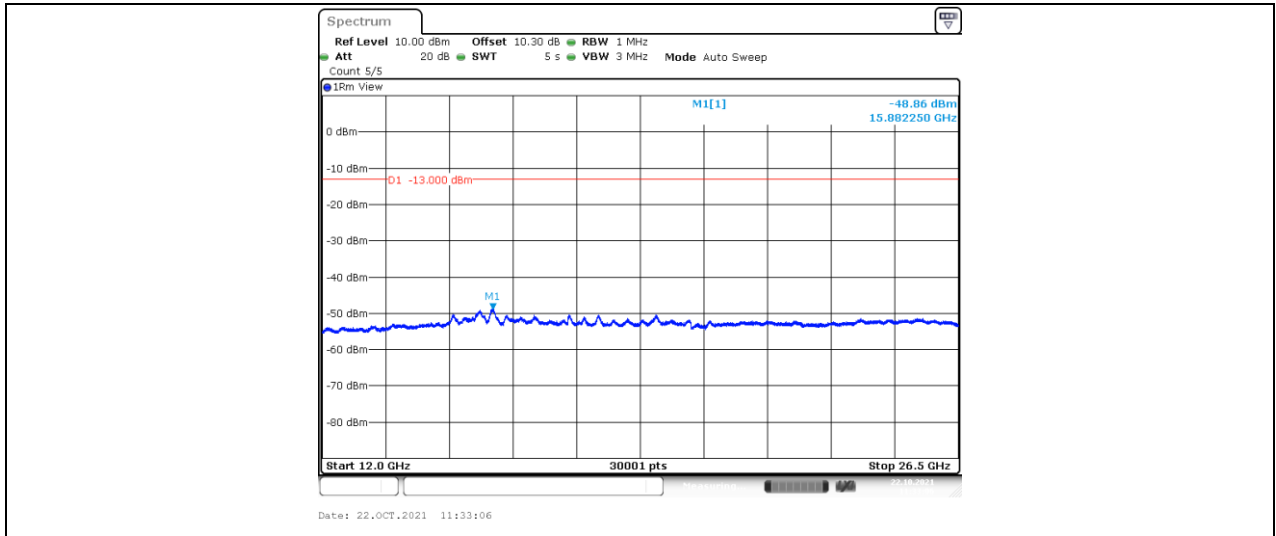
Band4-1.4MHz-16QAM-20393-6-0-Low-1000-5000--37.74-PASS



Band4-1.4MHz-16QAM-20393-6-0-Low-5000-12000--51.11-PASS



Band4-1.4MHz-16QAM-20393-6-0-Low-12000-26500--48.86-PASS



APPENDIX B.6: FREQUENCY STABILITY FOR M1

Test Result

Voltage												
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	20175	QPSK	1	0	Low	HV	NT	9.74	0.005622	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	LV	NT	7.62	0.004398	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	NT	7.94	0.004583	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	HV	NT	66.49	0.038378	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	LV	NT	64.39	0.037166	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	NT	62.17	0.035885	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	85	8.40	0.004848	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	-30	8.57	0.004947	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	-20	9.58	0.005530	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	-10	10.34	0.005968	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	0	6.84	0.003948	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	10	6.78	0.003913	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	20	8.24	0.004756	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	30	7.05	0.004069	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	40	8.78	0.005068	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	50	7.72	0.004456	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	60	9.04	0.005218	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	70	7.48	0.004317	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	-40	7.07	0.004081	±2.5	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	NV	80	8.01	0.004623	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	85	66.63	0.038459	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	-30	65.22	0.037645	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	-20	66.30	0.038268	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	-10	64.89	0.037455	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	0	66.49	0.038378	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	10	63.17	0.036462	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	20	65.70	0.037922	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	30	65.86	0.038014	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	40	66.91	0.038620	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	50	65.07	0.037558	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	60	65.79	0.037974	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	70	65.70	0.037922	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	80	65.98	0.038084	±2.5	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	NV	-40	65.13	0.037593	±2.5	PASS