

Product Name: GEM-OX-GU

Model: TE-304B-A12

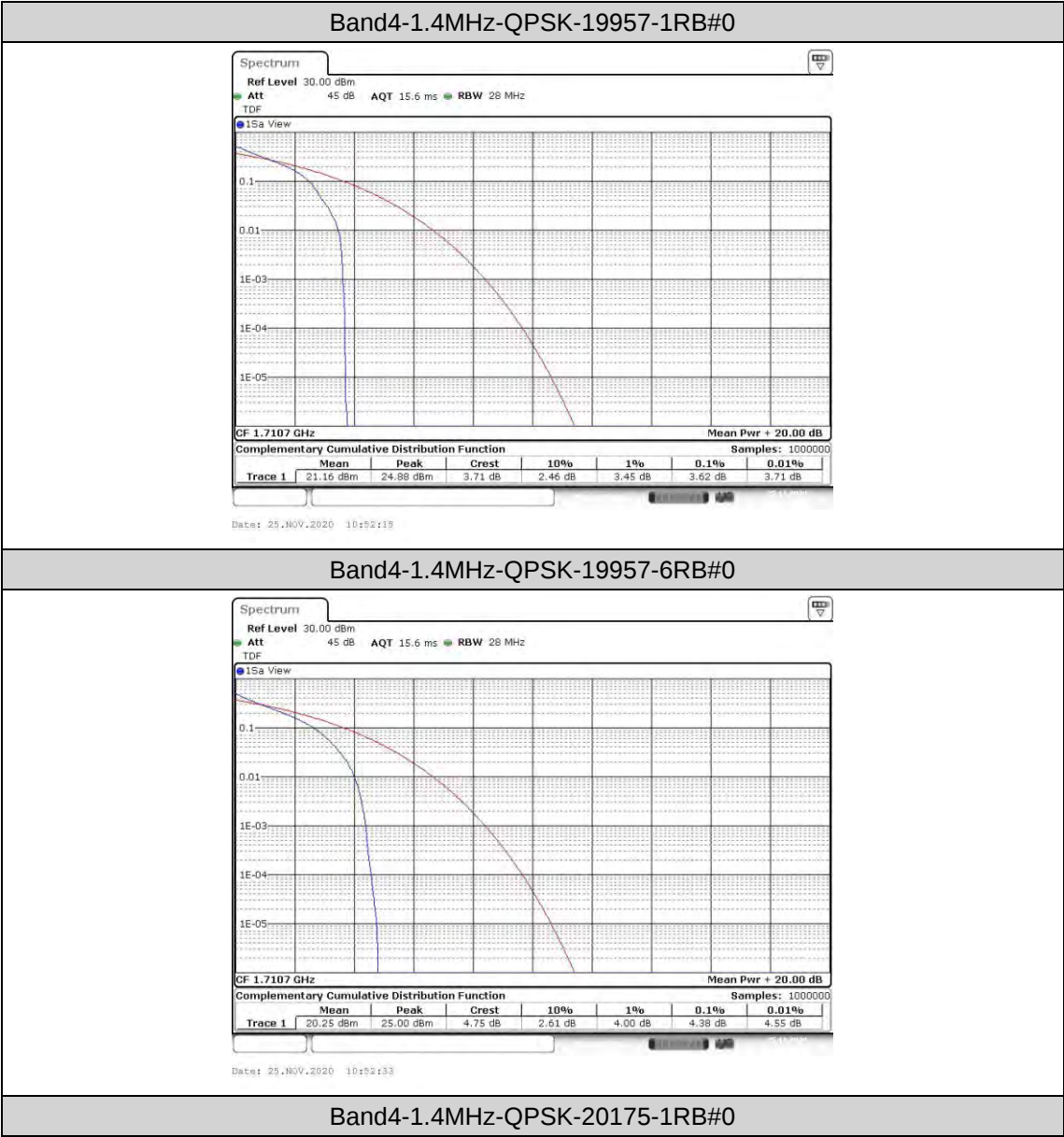
Appendix B: Peak-to-Average Ratio(CCDF)

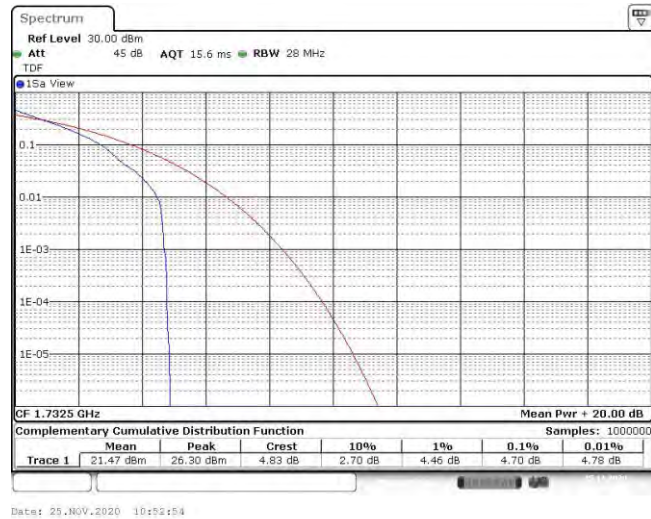
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	3.62	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.38	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.70	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.36	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.23	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.99	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	4.64	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.22	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.77	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.23	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.28	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.86	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.38	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.45	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.04	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.30	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.35	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.86	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.41	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	8.41	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.04	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.28	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	8.46	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.88	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.38	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.36	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.01	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.22	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.23	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.88	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	4.55	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.42	13	PASS

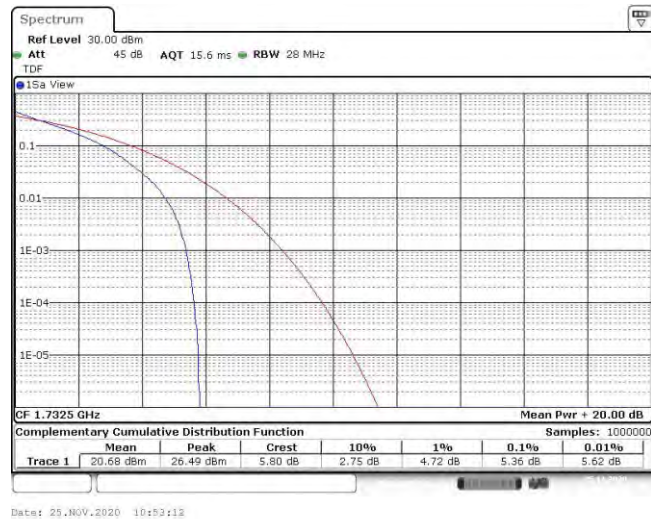
Band4	15MHz	QPSK	20325	75RB#0	5.19	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.33	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.23	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.97	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	4.64	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	8.46	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.09	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.91	13	PASS

Test Graphs





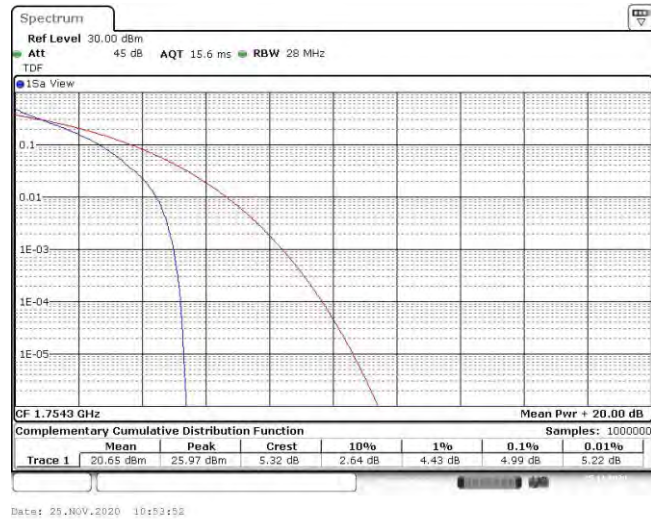
Band4-1.4MHz-QPSK-20175-6RB#0



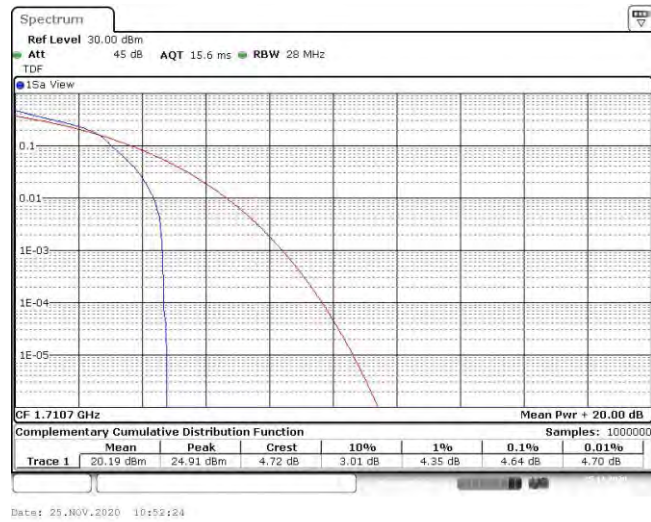
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Band4-1.4MHz-QPSK-20393-6RB#0



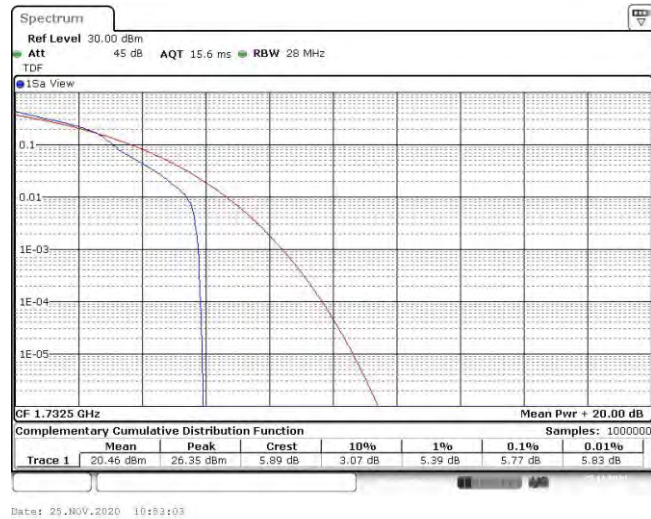
Band4-1.4MHz-16QAM-19957-1RB#0



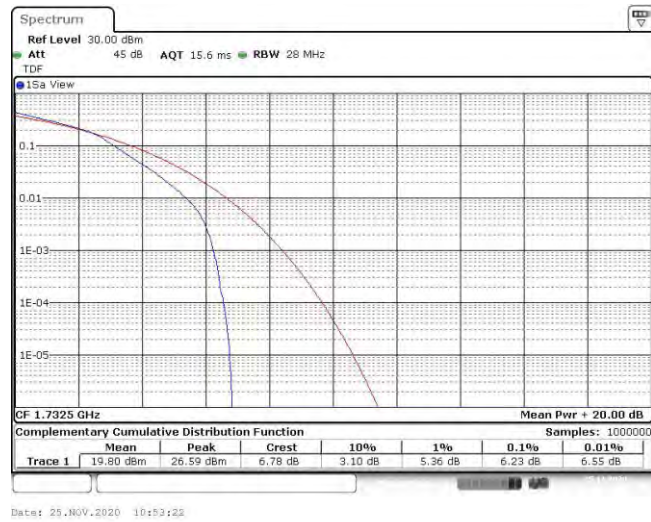
Band4-1.4MHz-16QAM-19957-6RB#0



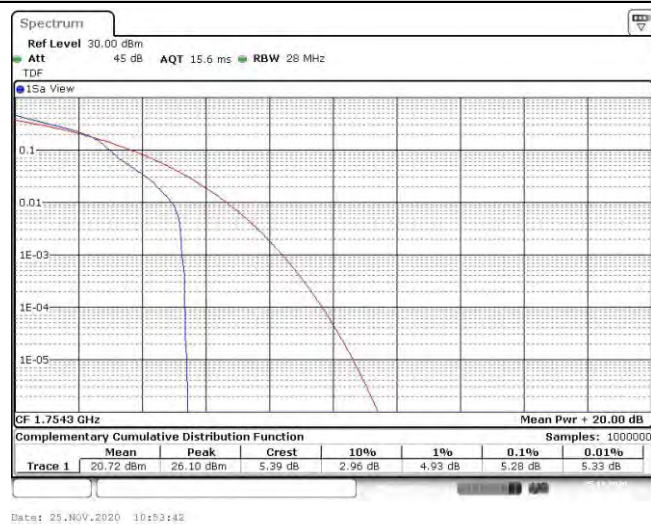
Band4-1.4MHz-16QAM-20175-1RB#0



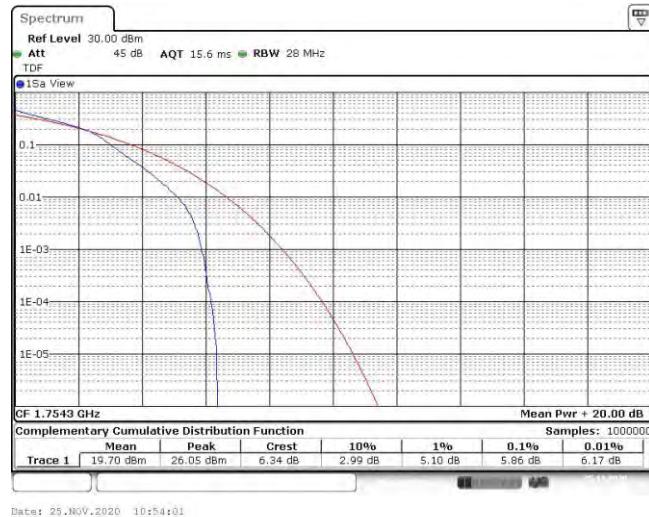
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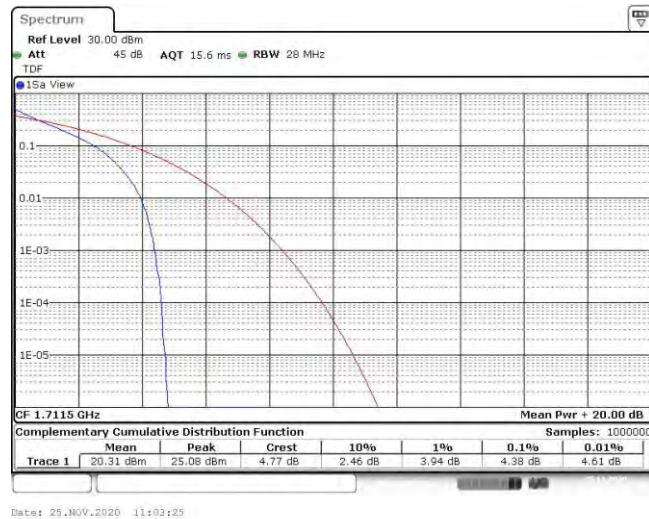
Band4-1.4MHz-16QAM-20393-1RB#0



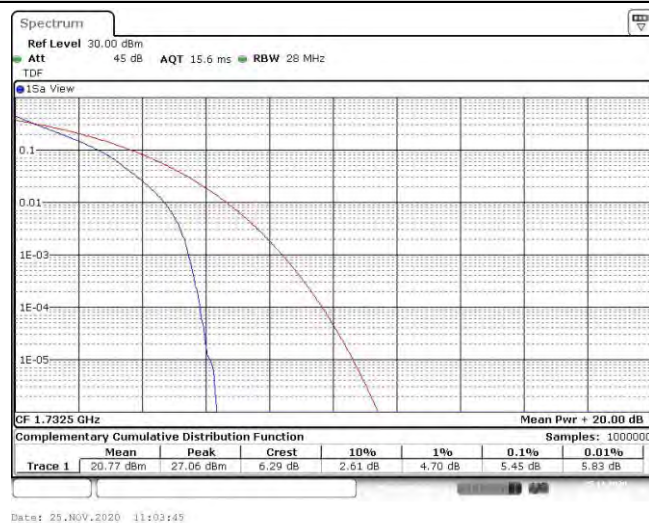
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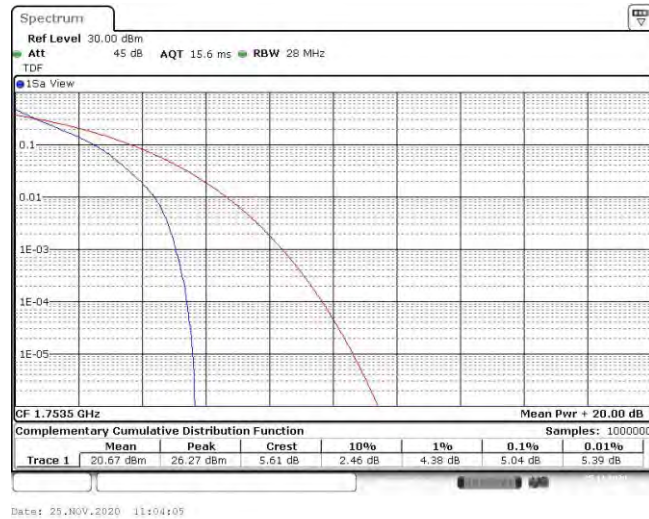
Band4-3MHz-QPSK-19965-15RB#0



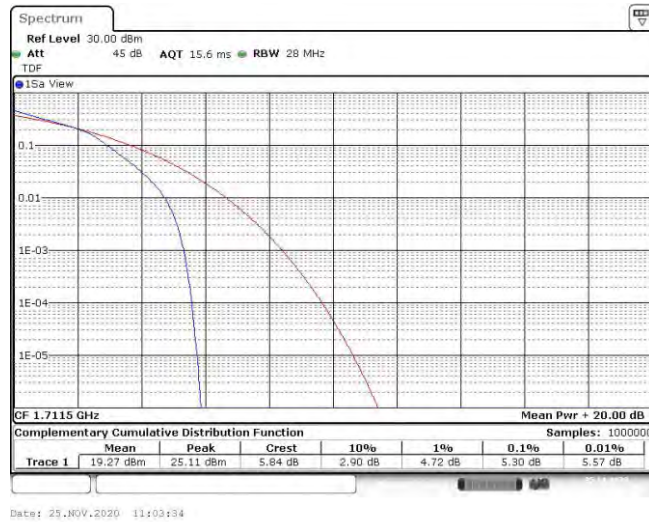
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Band4-3MHz-QPSK-20385-15RB#0



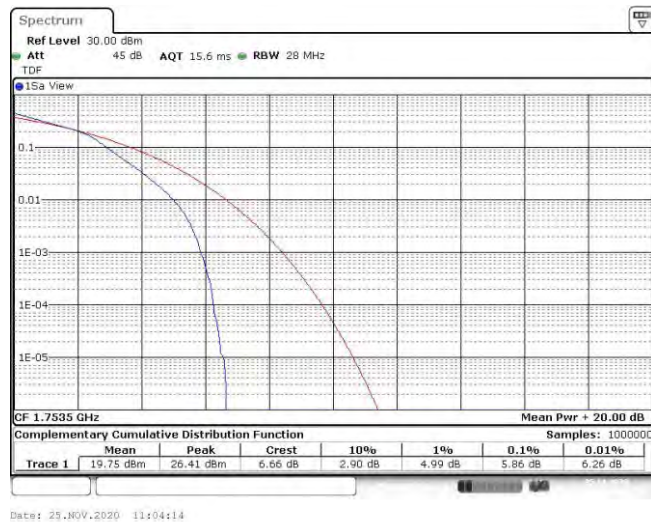
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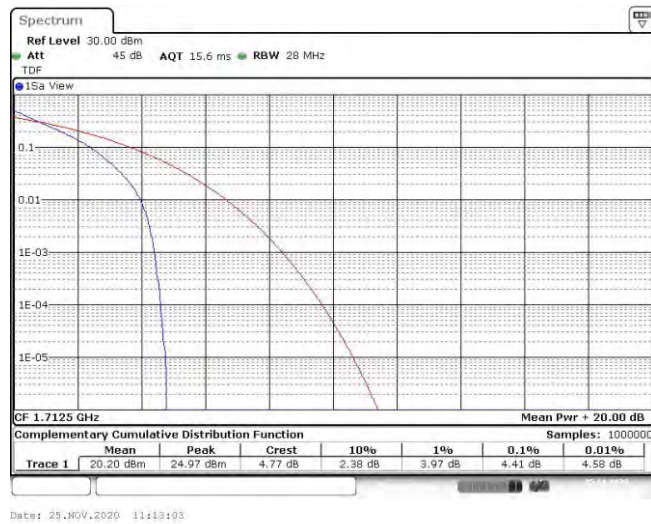
Band4-3MHz-16QAM-20175-15RB#0



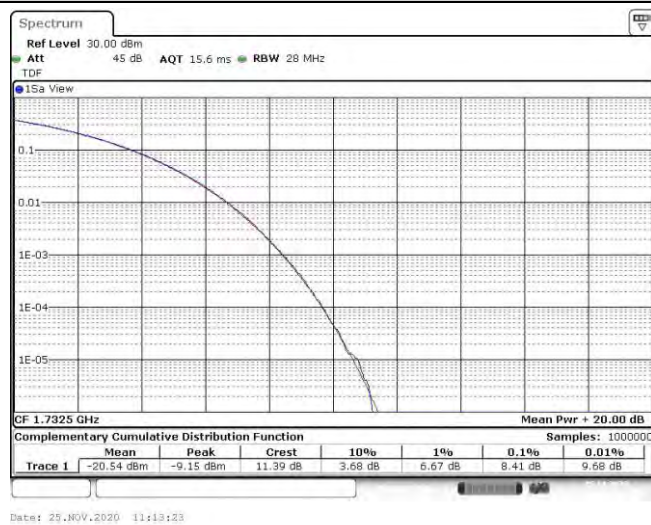
Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-25RB#0



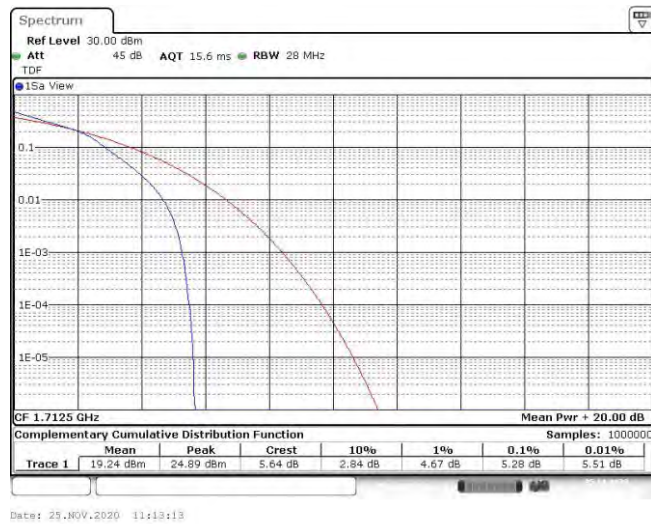
Band4-5MHz-QPSK-20175-25RB#0



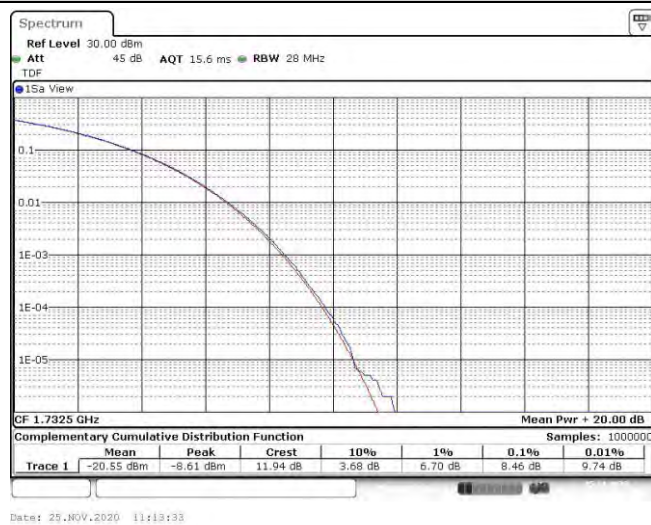
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Band4-5MHz-16QAM-19975-25RB#0



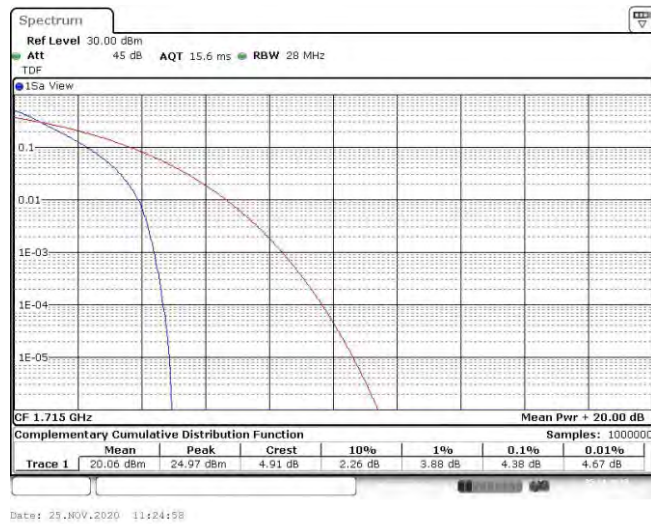
Band4-5MHz-16QAM-20175-25RB#0



Band4-5MHz-16QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-50RB#0



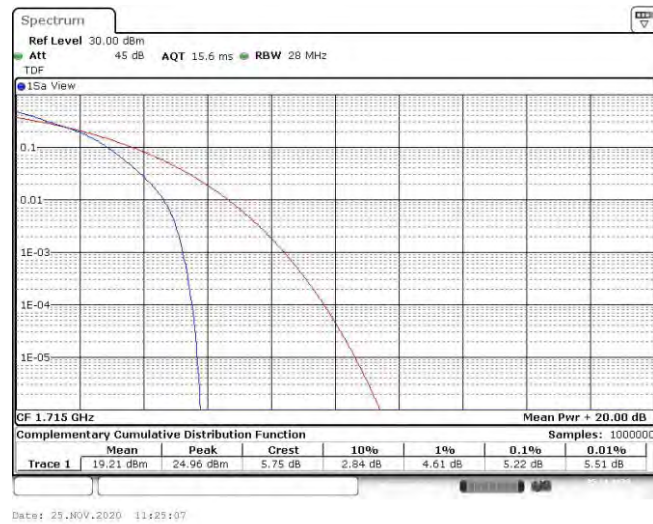
Band4-10MHz-QPSK-20175-50RB#0



Band4-10MHz-QPSK-20350-50RB#0



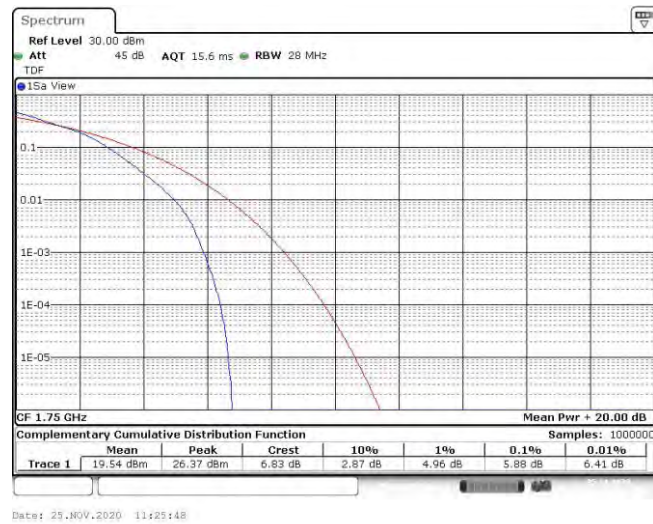
Band4-10MHz-16QAM-20000-50RB#0



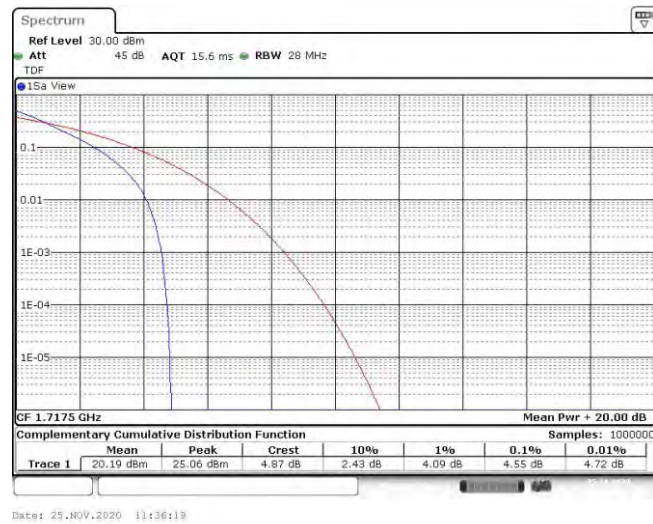
Band4-10MHz-16QAM-20175-50RB#0



Band4-10MHz-16QAM-20350-50RB#0



Band4-15MHz-QPSK-20025-75RB#0



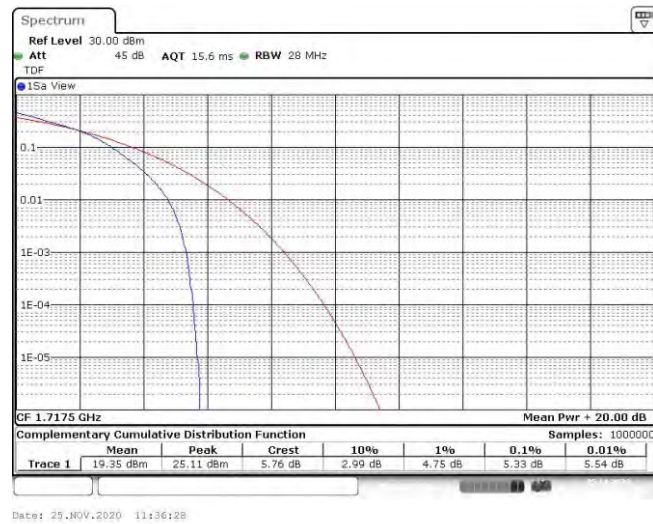
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Band4-15MHz-QPSK-20325-75RB#0



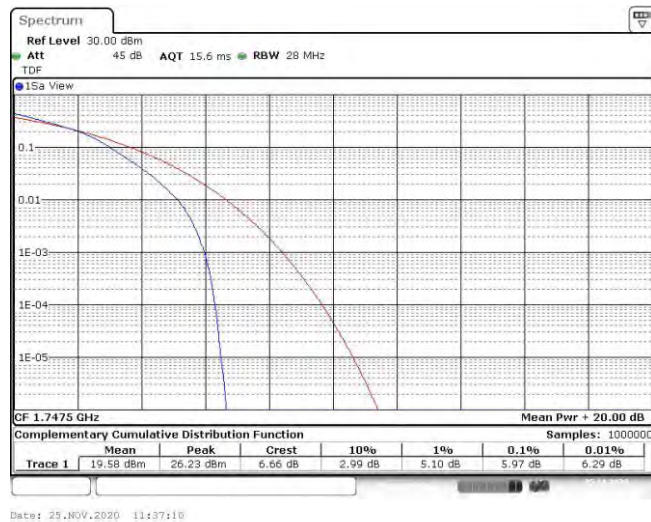
Band4-15MHz-16QAM-20025-75RB#0



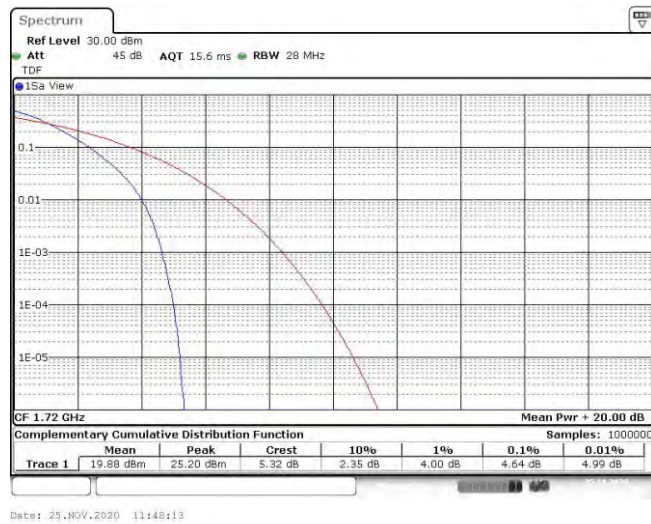
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Band4-15MHz-16QAM-20325-75RB#0



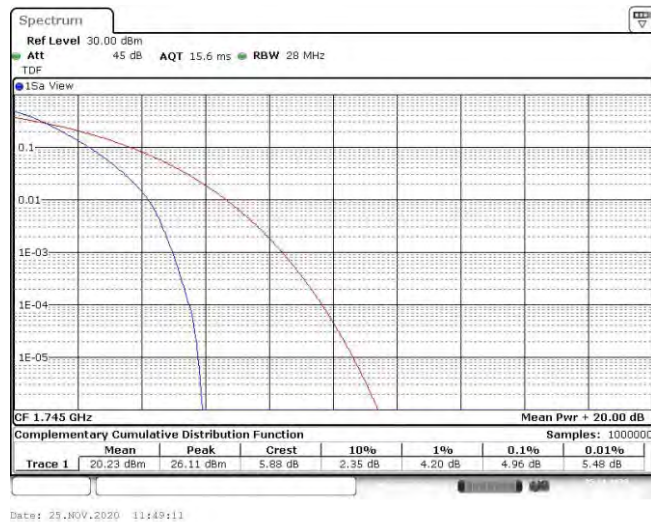
Band4-20MHz-QPSK-20050-100RB#0



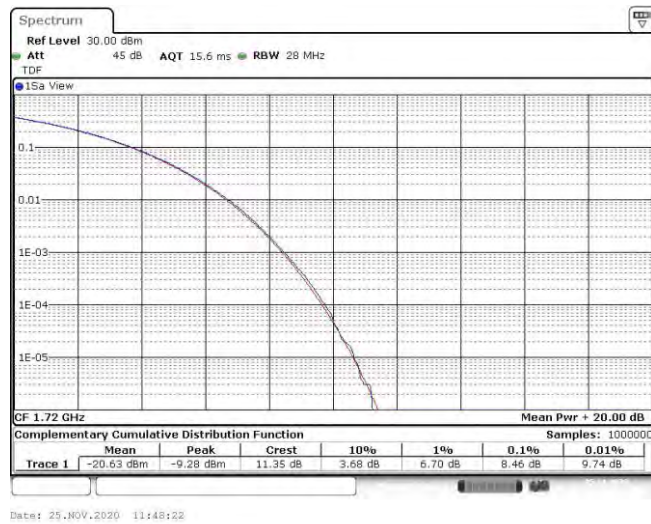
Band4-20MHz-QPSK-20175-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

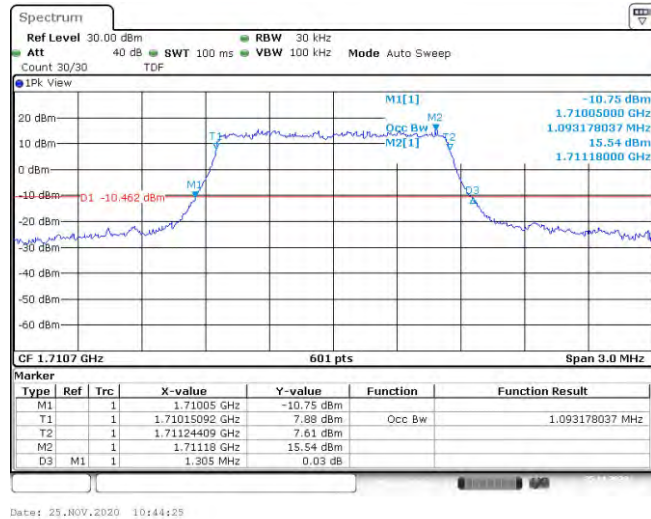
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.093	1.305	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.103	1.310	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.098	1.325	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.103	1.335	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.290	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.098	1.305	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.705	3.000	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.705	2.980	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.705	3.000	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	3.010	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.970	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	3.000	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.515	5.030	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.515	5.050	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.505	5.060	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.505	5.010	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.505	5.000	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.505	5.010	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.985	10.000	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.985	9.933	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.952	10.000	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.952	9.867	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.952	10.033	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.952	9.867	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.378	14.850	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.478	14.950	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.428	14.850	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.428	14.750	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.478	14.850	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.428	14.800	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.903	19.800	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.97	19.800	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.903	19.733	PASS

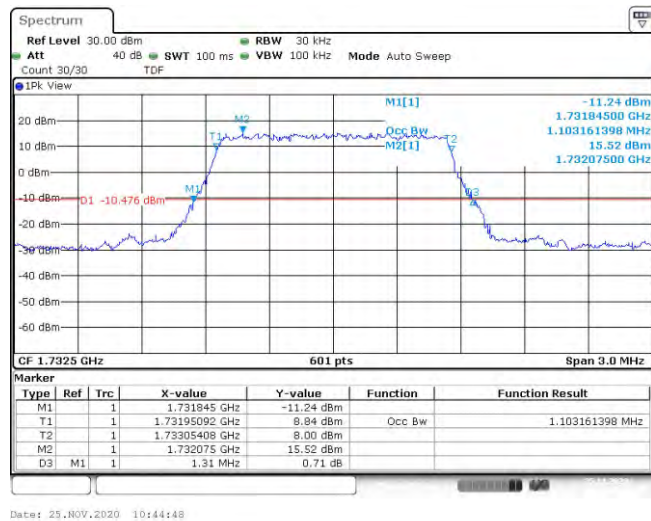
Band4	20MHz	16QAM	20050	100RB#0	17.97	19.667	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.037	19.867	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.97	19.800	PASS

Test Graphs

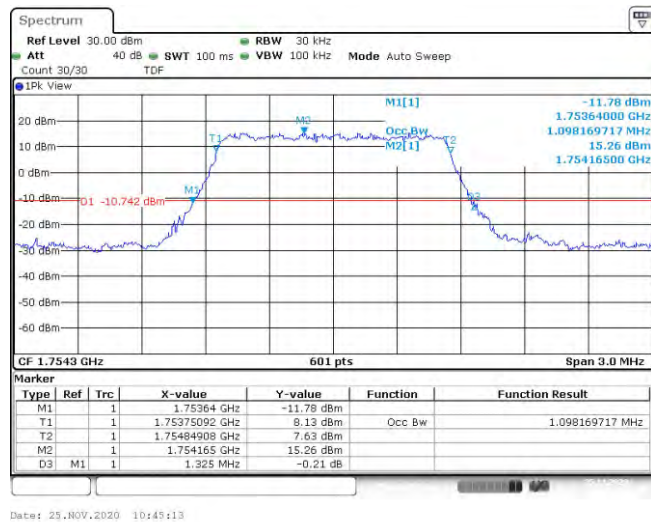
Band4-1.4MHz-QPSK-19957-6RB#0-1.093



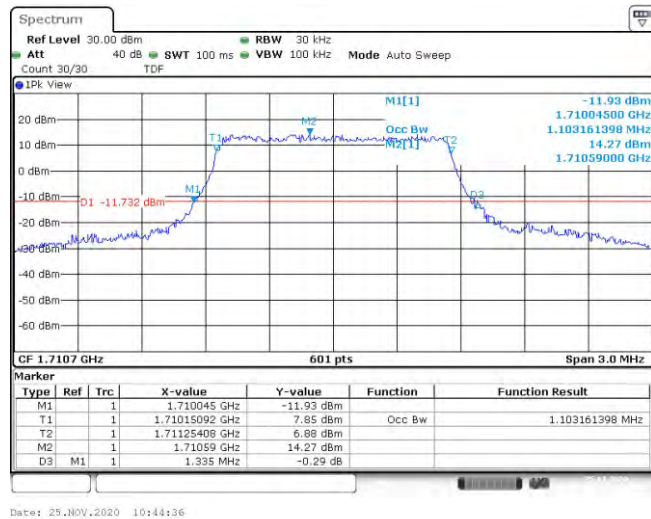
Band4-1.4MHz-QPSK-20175-6RB#0-1.103



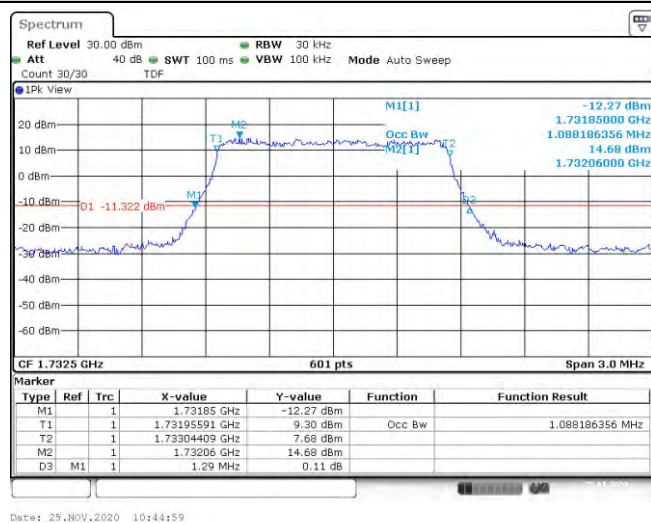
Band4-1.4MHz-QPSK-20393-6RB#0-1.098



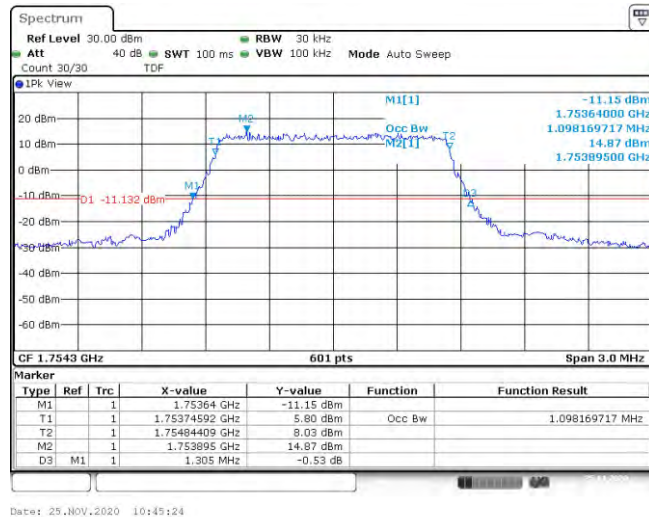
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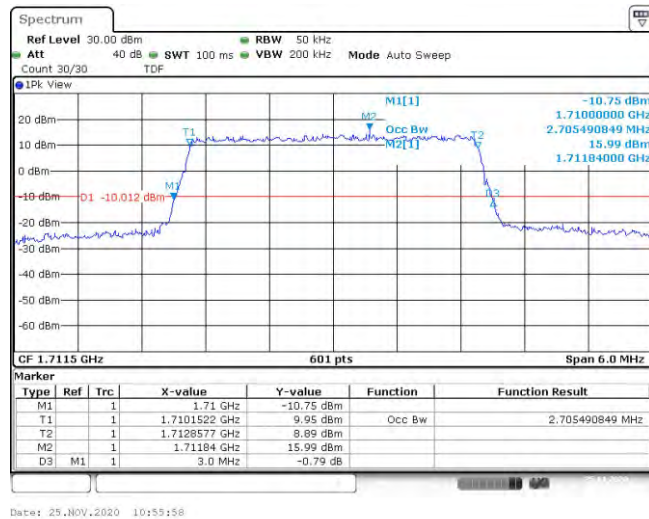
Band4-1.4MHz-16QAM-20175-6RB#0-1.088



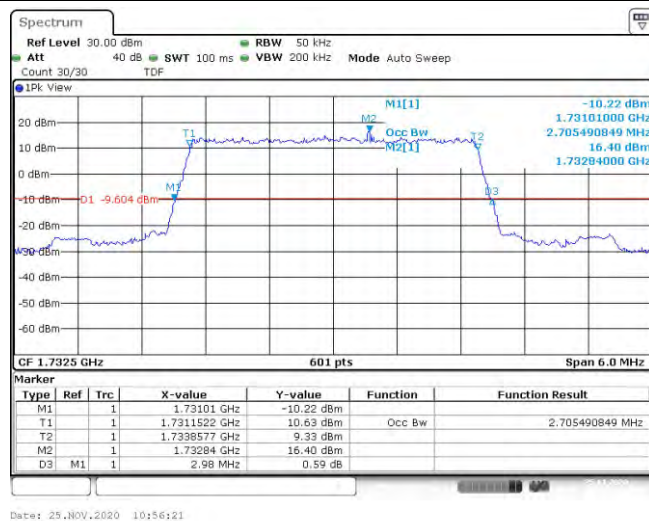
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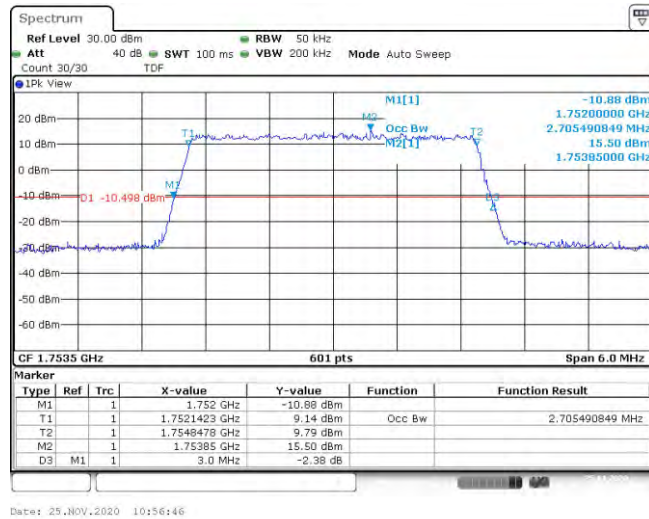
Band4-3MHz-QPSK-19965-15RB#0-2.705



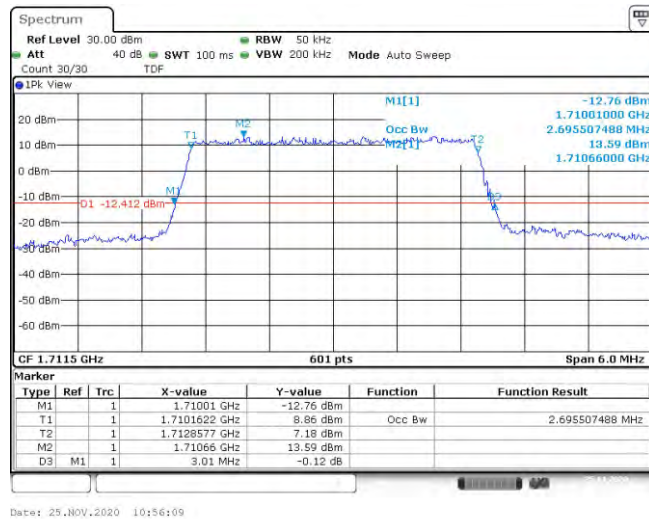
Band4-3MHz-QPSK-20175-15RB#0-2.705



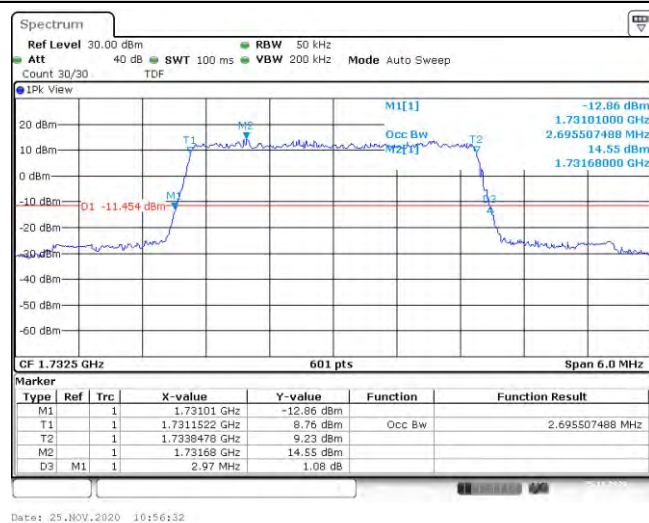
Band4-3MHz-QPSK-20385-15RB#0-2.705



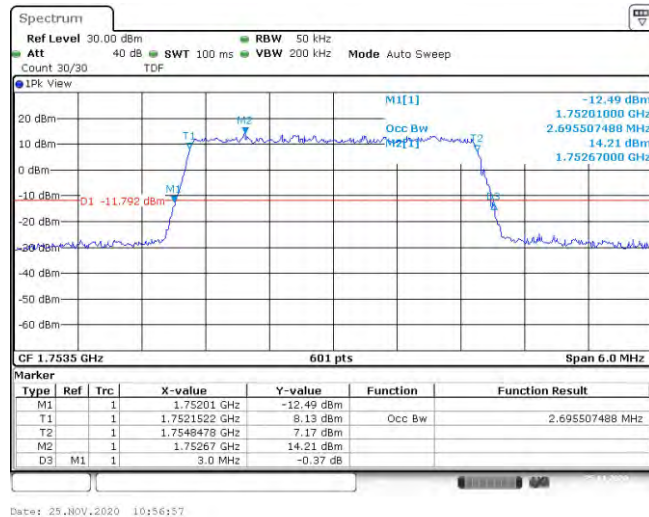
Band4-3MHz-16QAM-19965-15RB#0-2.696



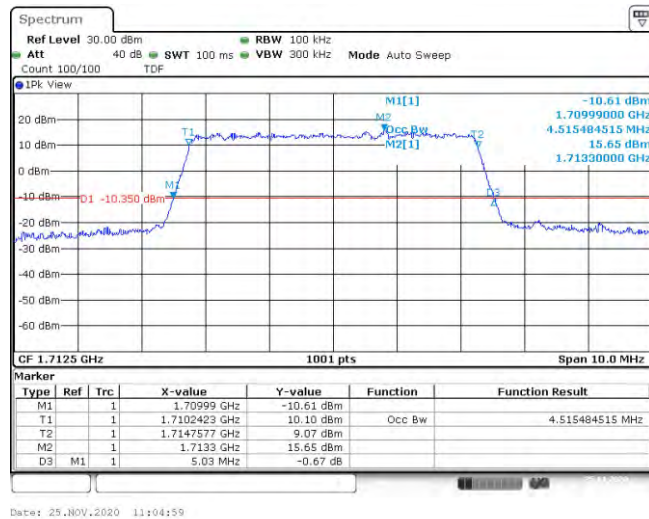
Band4-3MHz-16QAM-20175-15RB#0-2.696



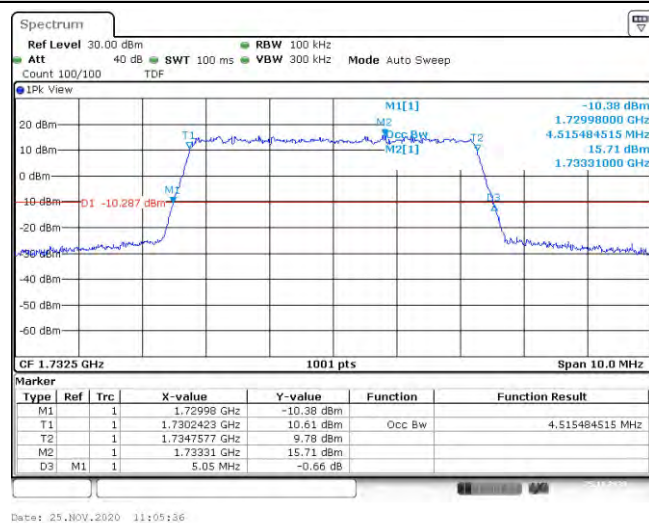
Band4-3MHz-16QAM-20385-15RB#0-2.696



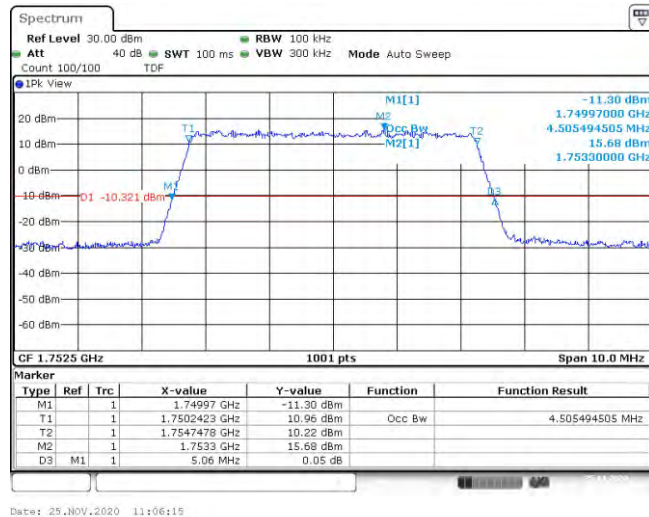
Band4-5MHz-QPSK-19975-25RB#0-4.515



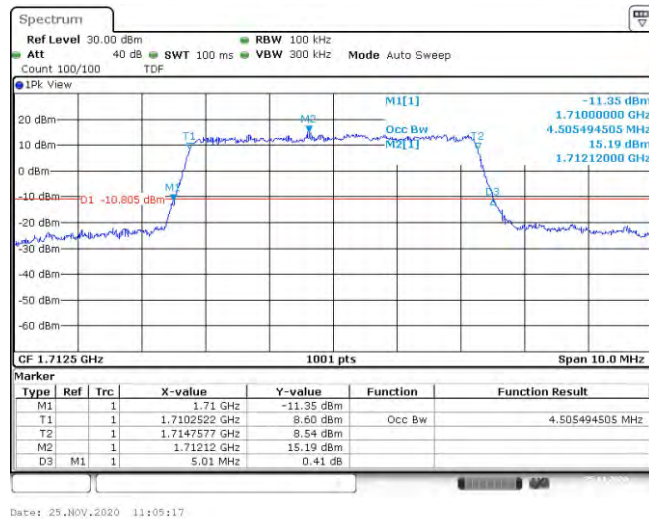
Band4-5MHz-QPSK-20175-25RB#0-4.515



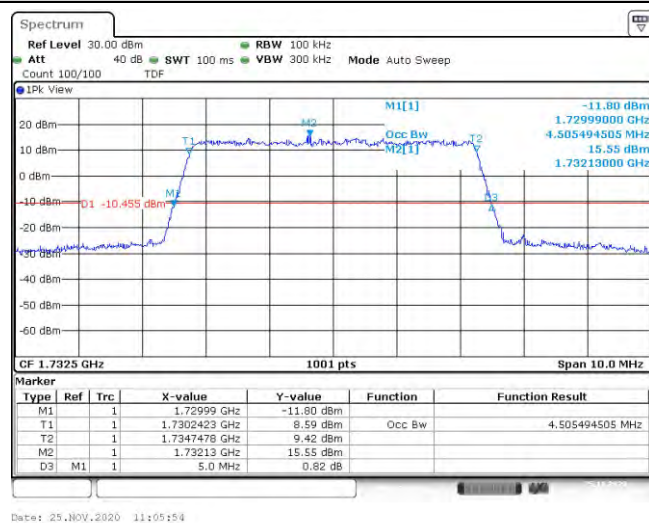
Band4-5MHz-QPSK-20375-25RB#0-4.505



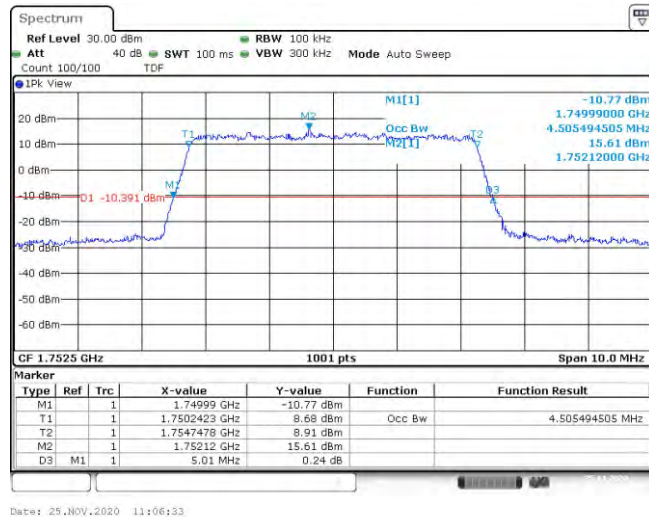
Band4-5MHz-16QAM-19975-25RB#0-4.505



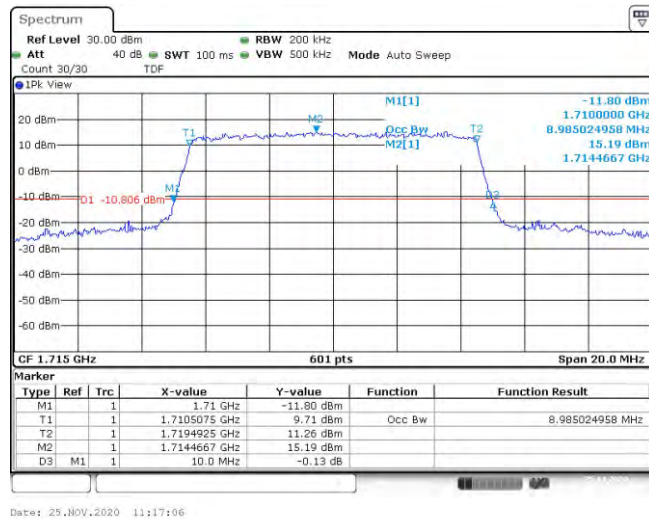
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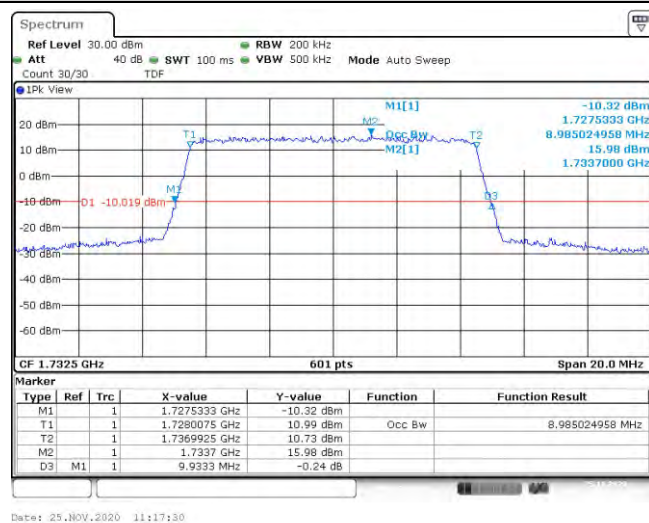
Band4-5MHz-16QAM-20375-25RB#0-4.505



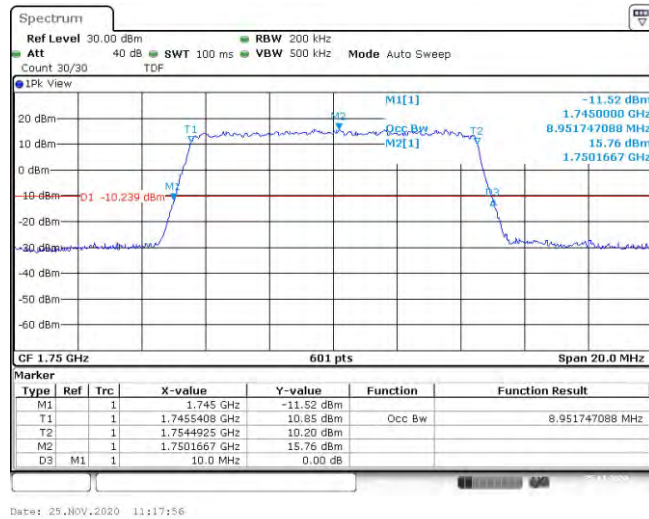
Band4-10MHz-QPSK-20000-50RB#0-8.985



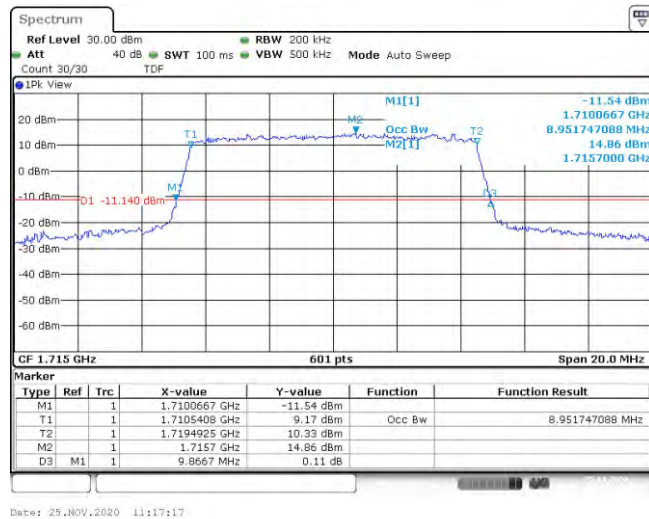
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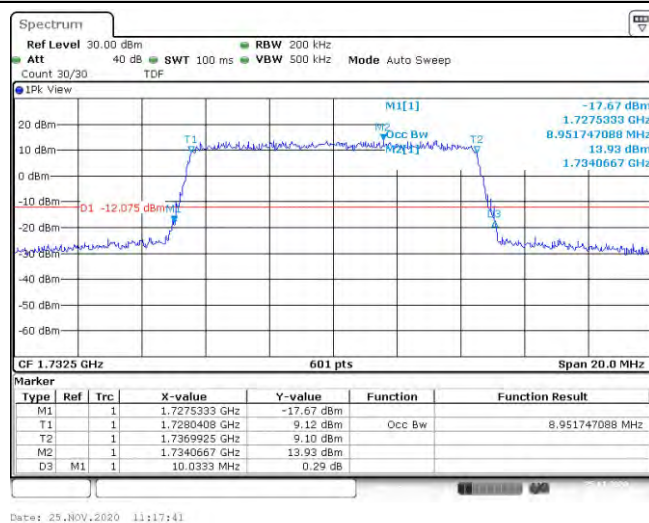
Band4-10MHz-QPSK-20350-50RB#0-8.952



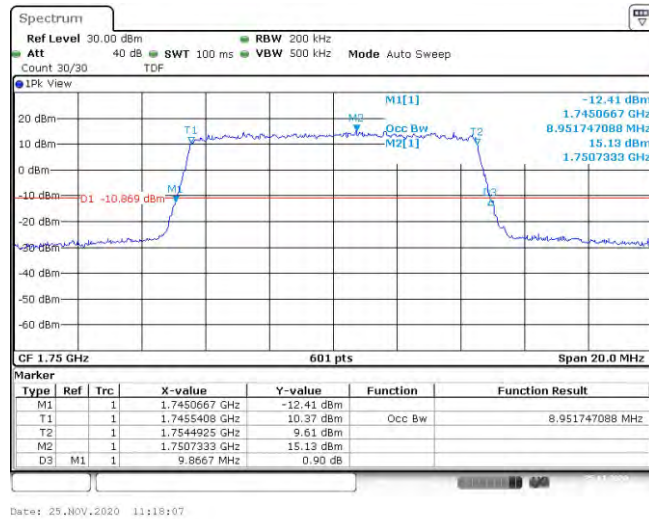
Band4-10MHz-16QAM-20000-50RB#0-8.952



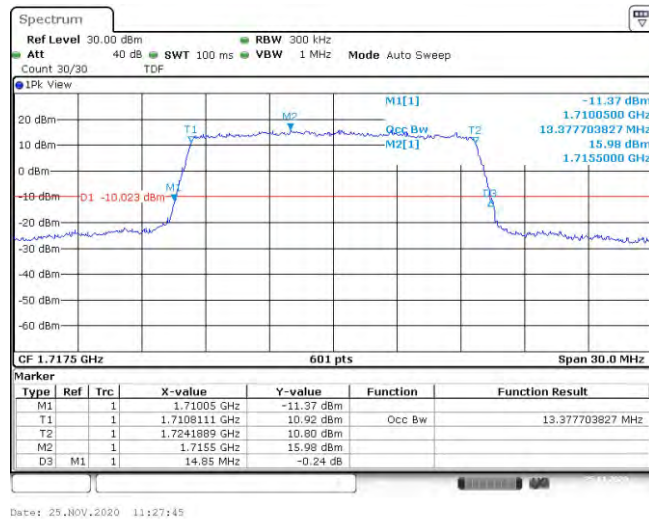
Band4-10MHz-16QAM-20175-50RB#0-8.952



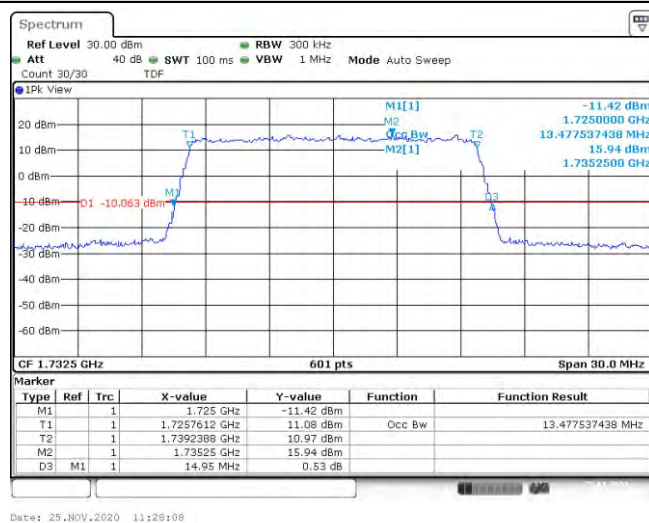
Band4-10MHz-16QAM-20350-50RB#0-8.952



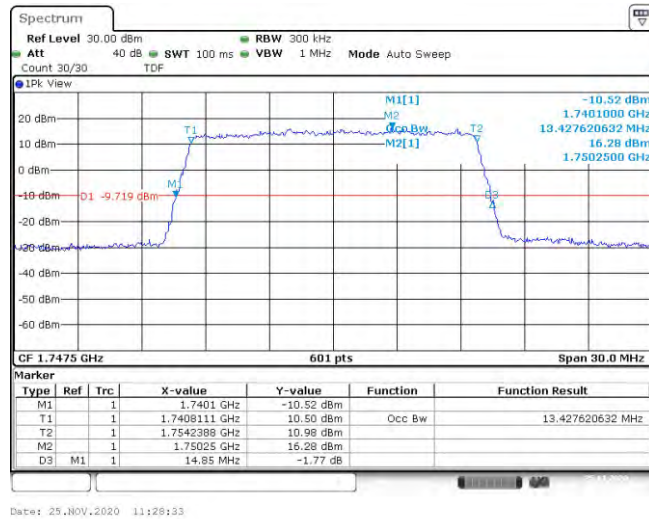
Band4-15MHz-QPSK-20025-75RB#0-13.378



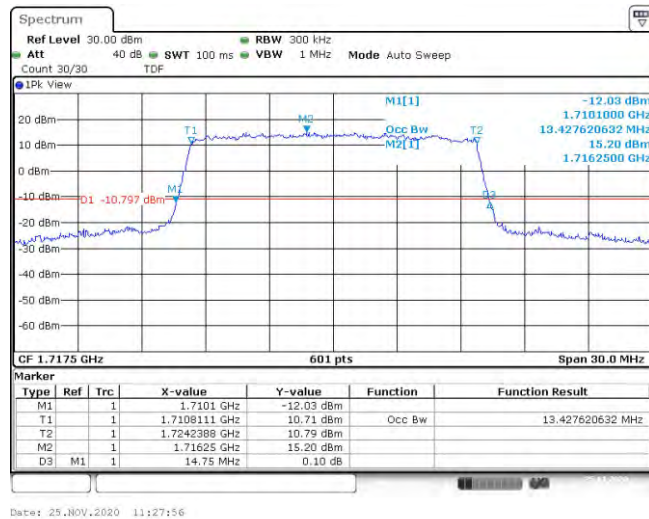
Band4-15MHz-QPSK-20175-75RB#0-13.478



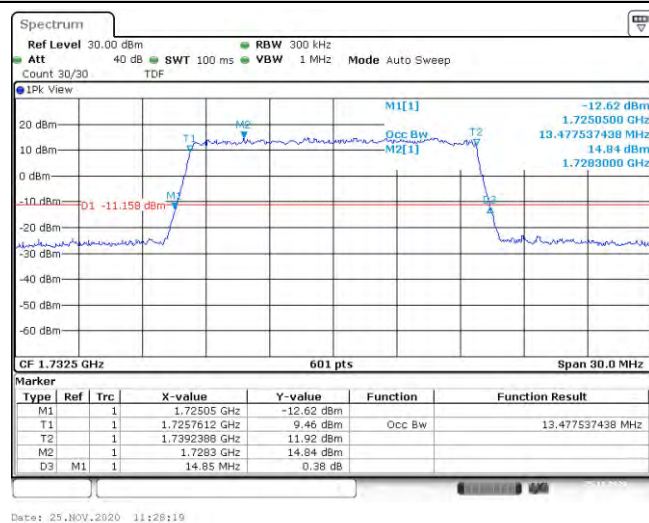
Band4-15MHz-QPSK-20325-75RB#0-13.428



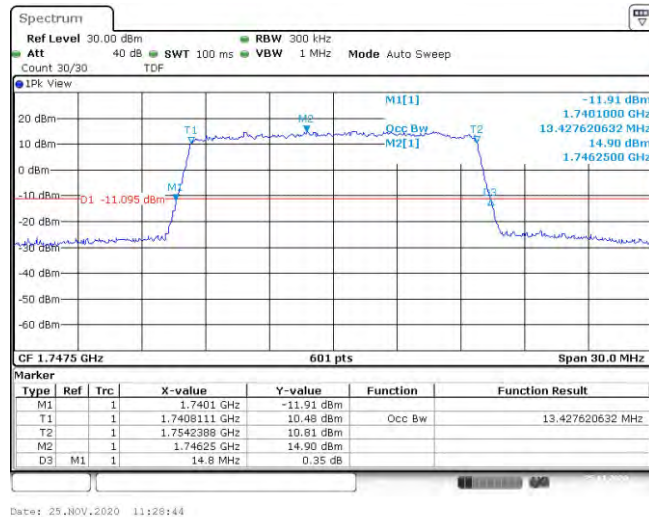
Band4-15MHz-16QAM-20025-75RB#0-13.428



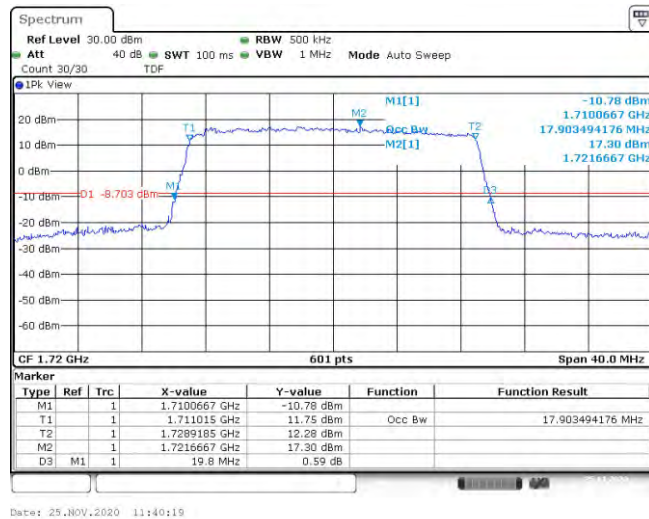
Band4-15MHz-16QAM-20175-75RB#0-13.478



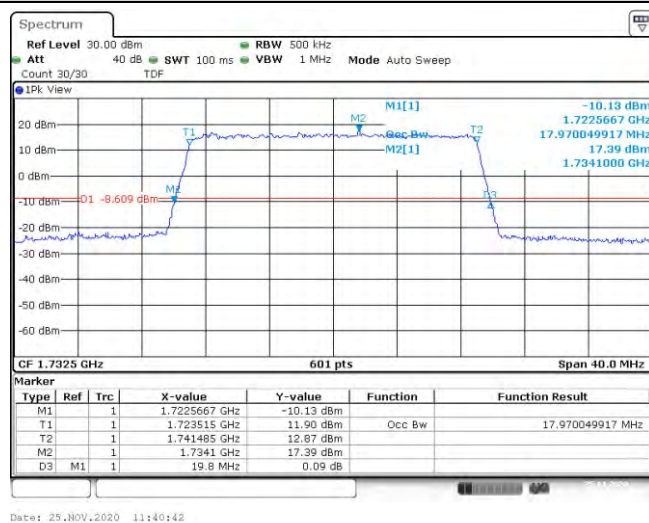
Band4-15MHz-16QAM-20325-75RB#0-13.428



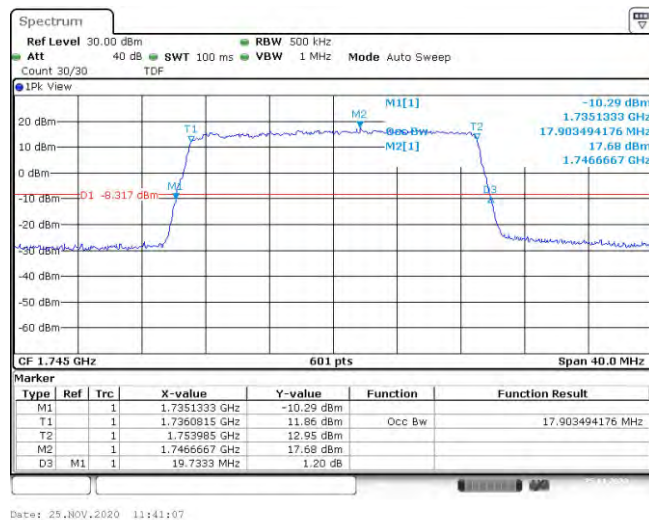
Band4-20MHz-QPSK-20050-100RB#0-17.903



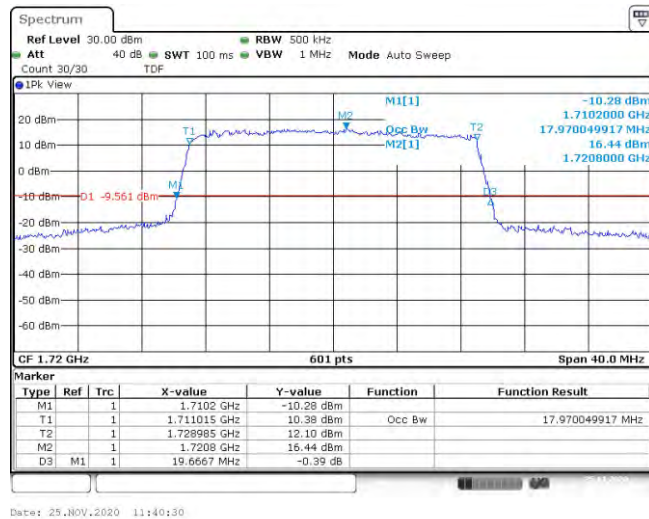
Band4-20MHz-QPSK-20175-100RB#0-17.97



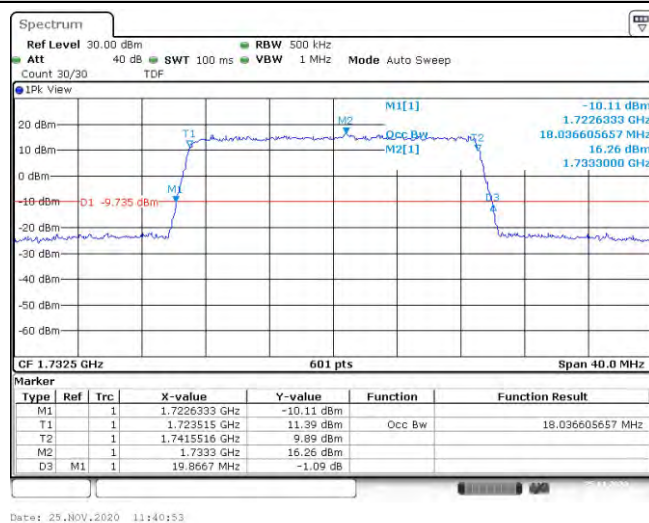
Band4-20MHz-QPSK-20300-100RB#0-17.903



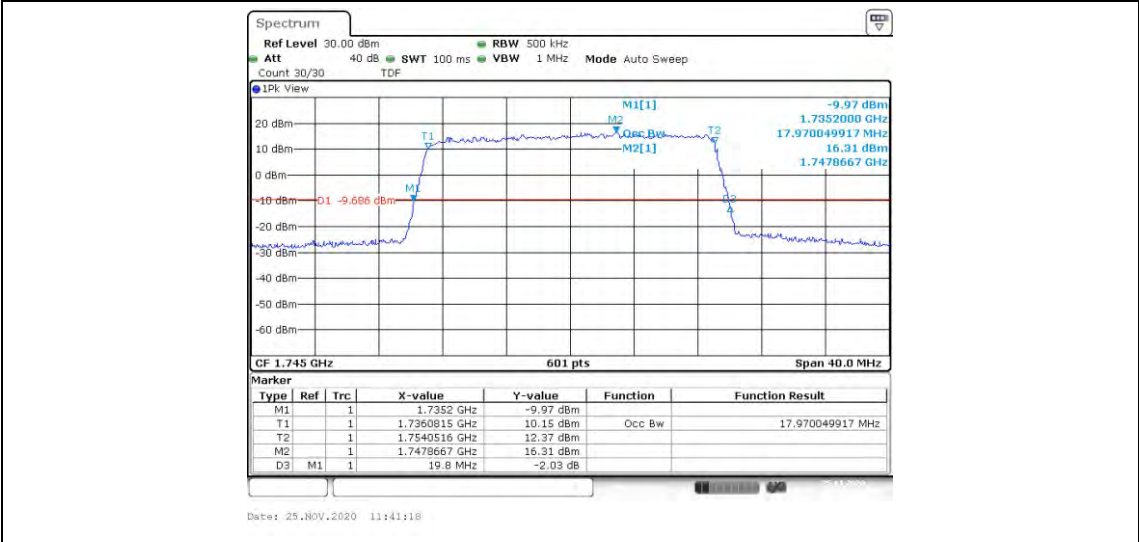
Band4-20MHz-16QAM-20050-100RB#0-17.97



Band4-20MHz-16QAM-20175-100RB#0-18.037



Band4-20MHz-16QAM-20300-100RB#0-17.97



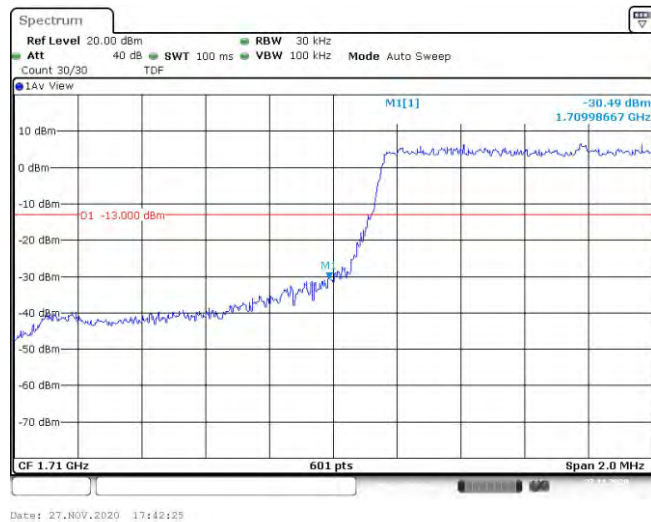
Appendix D: Band Edge

Test Result

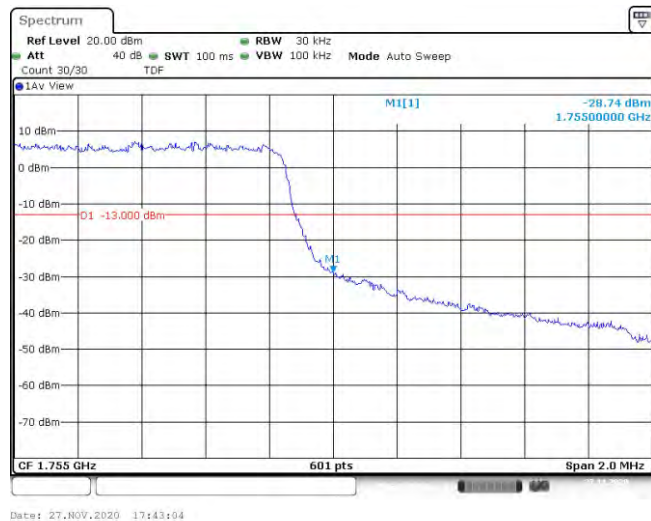
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	-30.49	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-28.74	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-30.49	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-29.16	PASS
Band4	3MHz	QPSK	19965	15RB#0	-23.57	PASS
Band4	3MHz	QPSK	20385	15RB#0	-26.02	PASS
Band4	3MHz	16QAM	19965	15RB#0	-27.32	PASS
Band4	3MHz	16QAM	20385	15RB#0	-25.45	PASS
Band4	5MHz	QPSK	19975	25RB#0	-29.39	PASS
Band4	5MHz	QPSK	20375	25RB#0	-31.91	PASS
Band4	5MHz	16QAM	19975	25RB#0	-32.11	PASS
Band4	5MHz	16QAM	20375	25RB#0	-31.25	PASS
Band4	10MHz	QPSK	20000	50RB#0	-34.91	PASS
Band4	10MHz	QPSK	20350	50RB#0	-35.89	PASS
Band4	10MHz	16QAM	20000	50RB#0	-35.51	PASS
Band4	10MHz	16QAM	20350	50RB#0	-37.23	PASS
Band4	15MHz	QPSK	20025	75RB#0	-34.69	PASS
Band4	15MHz	QPSK	20325	75RB#0	-37.97	PASS
Band4	15MHz	16QAM	20025	75RB#0	-35.53	PASS
Band4	15MHz	16QAM	20325	75RB#0	-38.61	PASS
Band4	20MHz	QPSK	20050	100RB#0	-33.39	PASS
Band4	20MHz	QPSK	20300	100RB#0	-37.77	PASS
Band4	20MHz	16QAM	20050	100RB#0	-34.24	PASS
Band4	20MHz	16QAM	20300	100RB#0	-37.40	PASS

Test Graphs

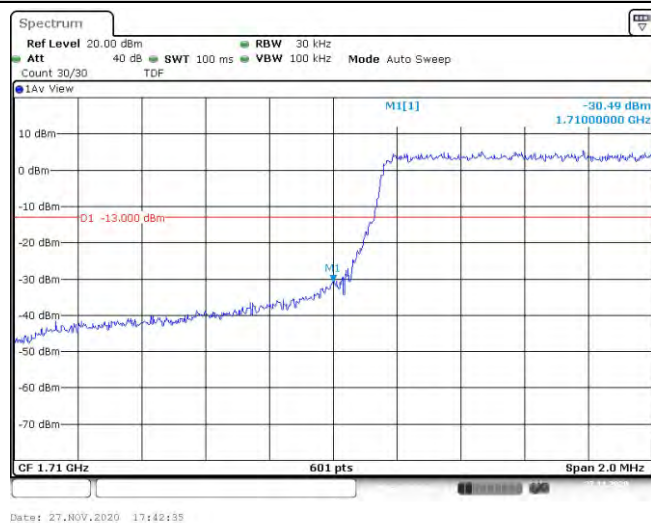
Band4-1.4MHz-QPSK-19957-6RB#0



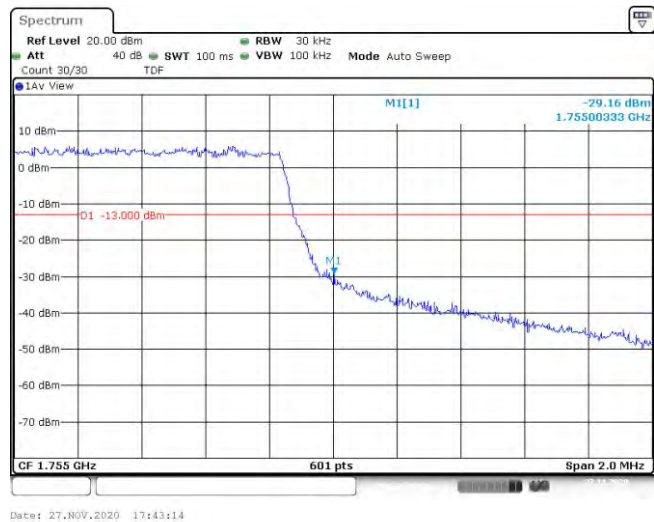
Band4-1.4MHz-QPSK-20393-6RB#0



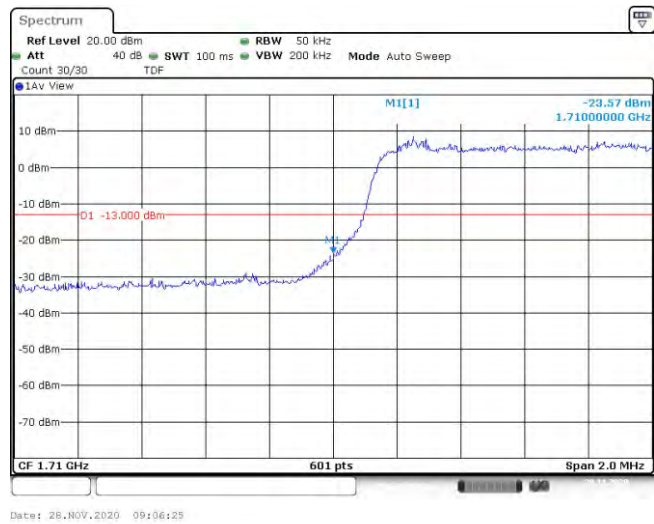
Band4-1.4MHz-16QAM-19957-6RB#0



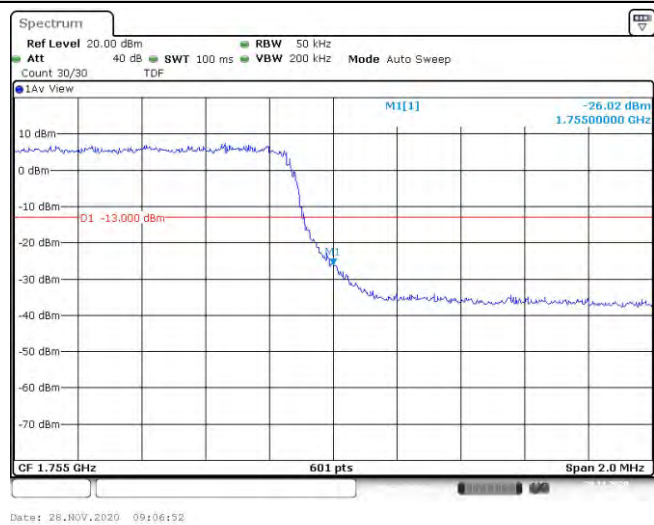
Band4-1.4MHz-16QAM-20393-6RB#0



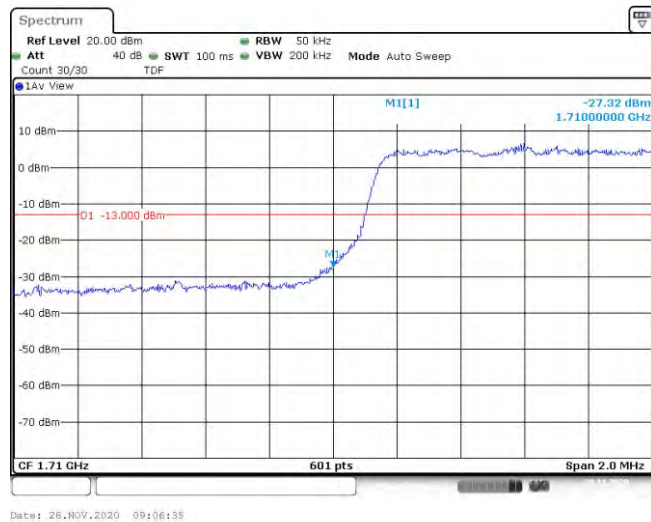
Band4-3MHz-QPSK-19965-15RB#0



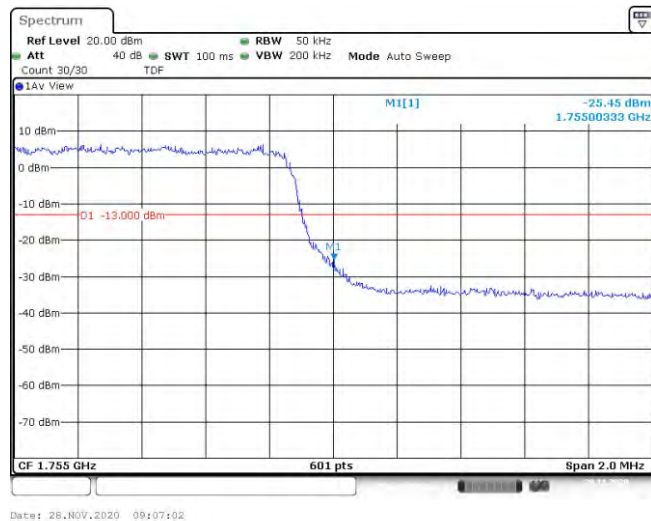
Band4-3MHz-QPSK-20385-15RB#0



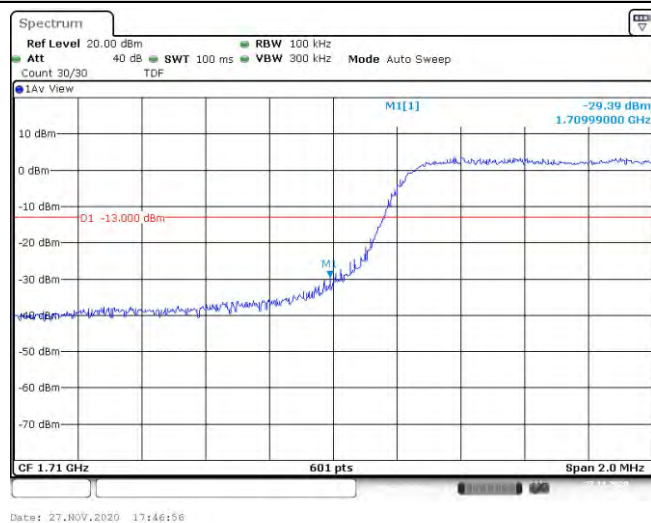
Band4-3MHz-16QAM-19965-15RB#0



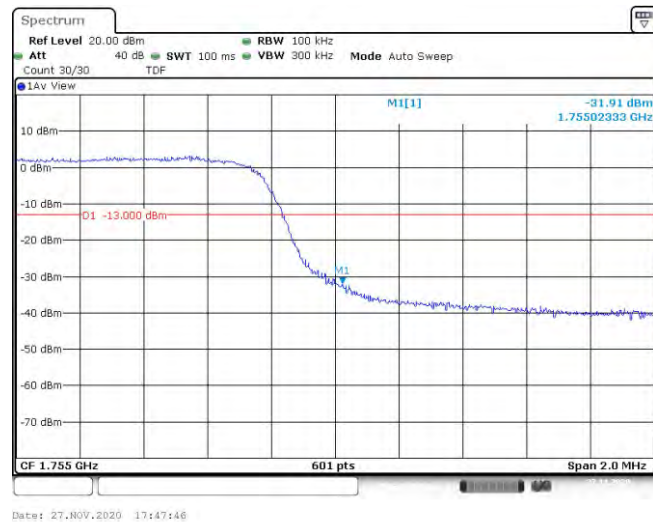
Band4-3MHz-16QAM-20385-15RB#0



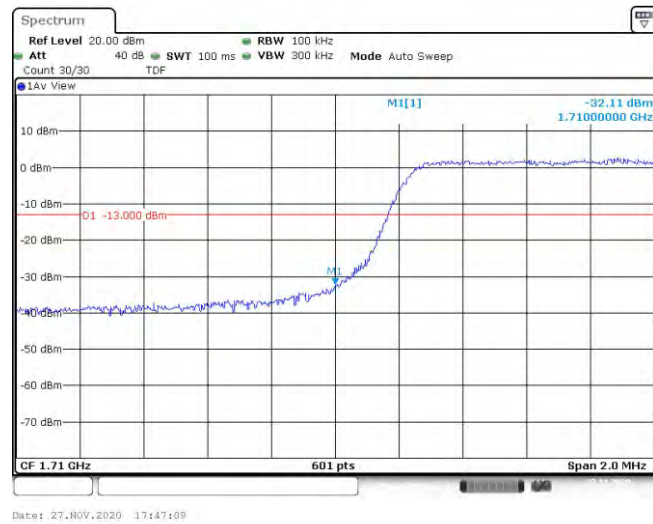
Band4-5MHz-QPSK-19975-25RB#0



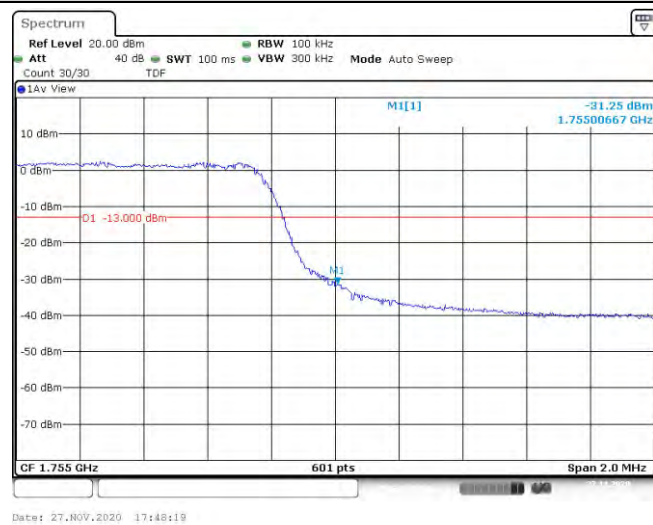
Band4-5MHz-QPSK-20375-25RB#0



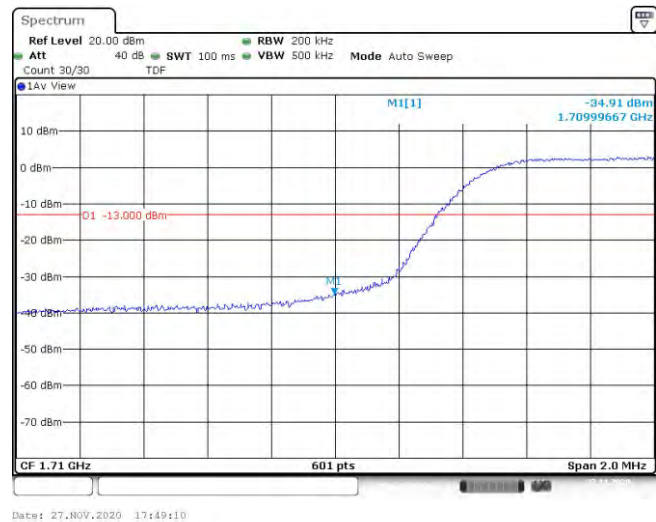
Band4-5MHz-16QAM-19975-25RB#0



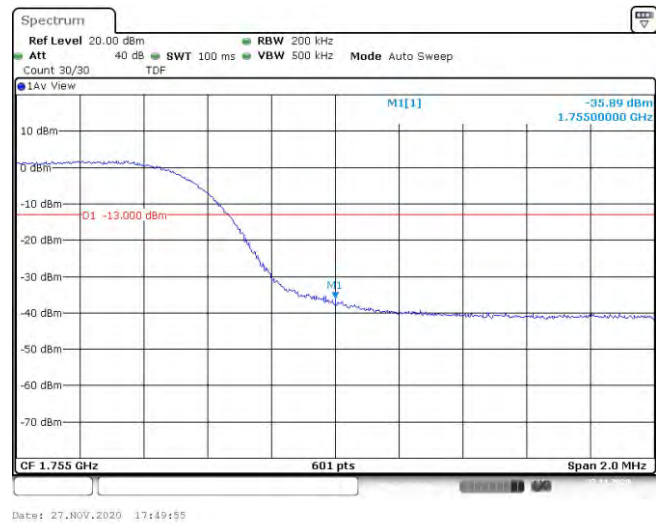
Band4-5MHz-16QAM-20375-25RB#0



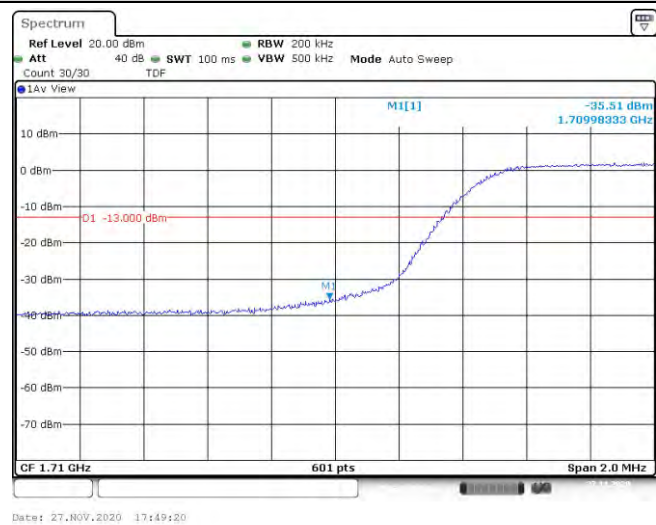
Band4-10MHz-QPSK-20000-50RB#0



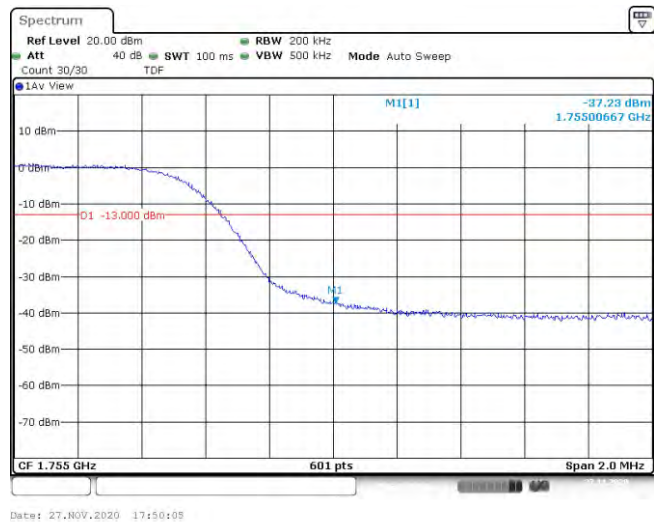
Band4-10MHz-QPSK-20350-50RB#0



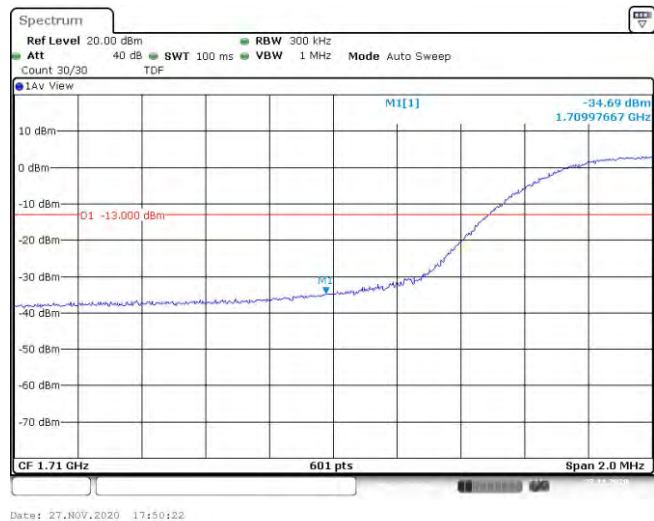
Band4-10MHz-16QAM-20000-50RB#0



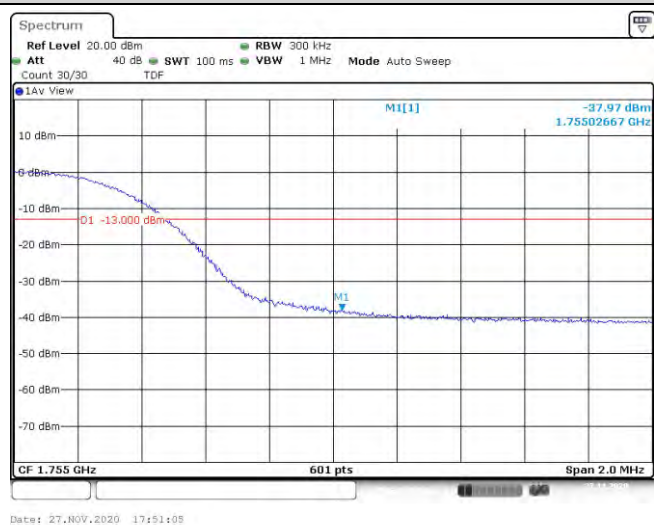
Band4-10MHz-16QAM-20350-50RB#0



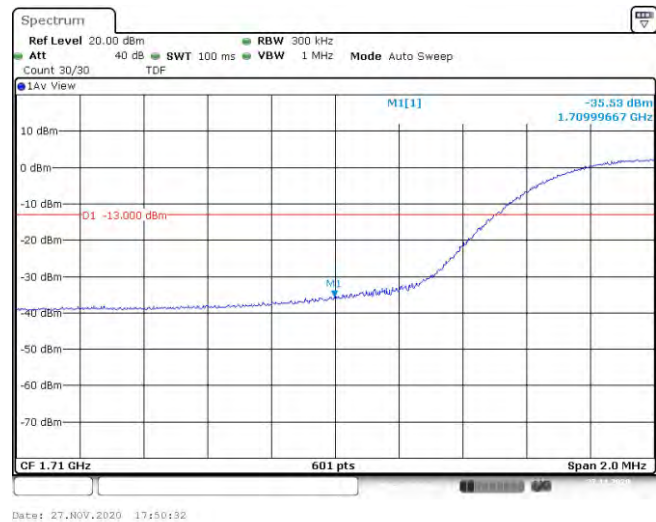
Band4-15MHz-QPSK-20025-75RB#0



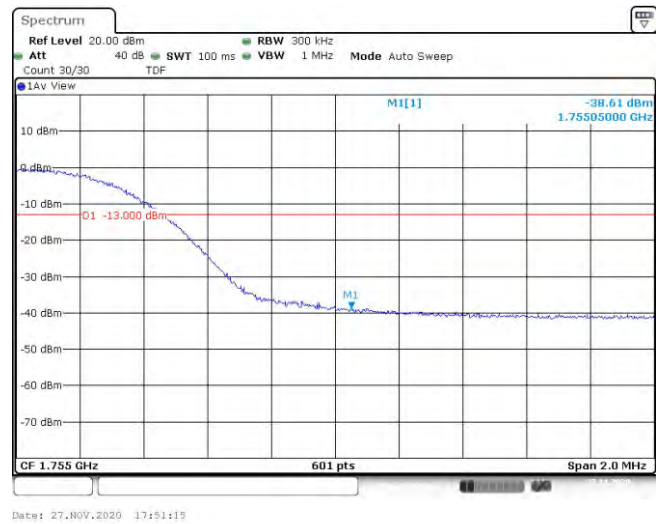
Band4-15MHz-QPSK-20325-75RB#0



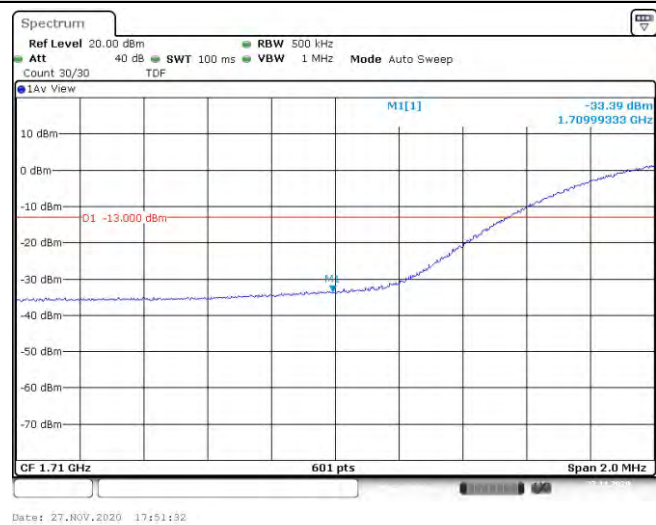
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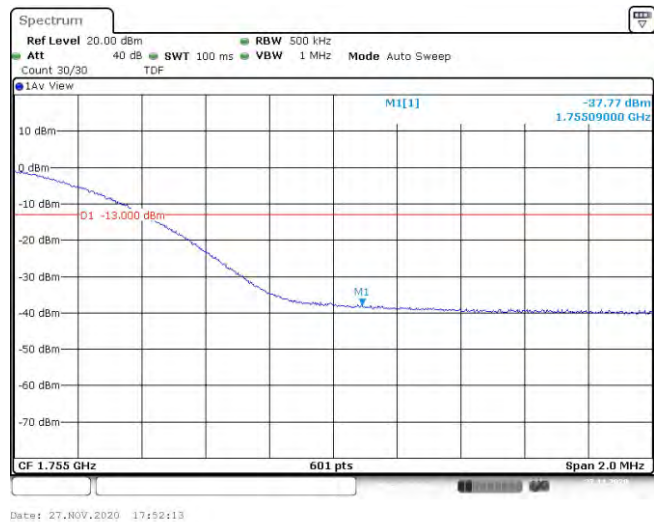
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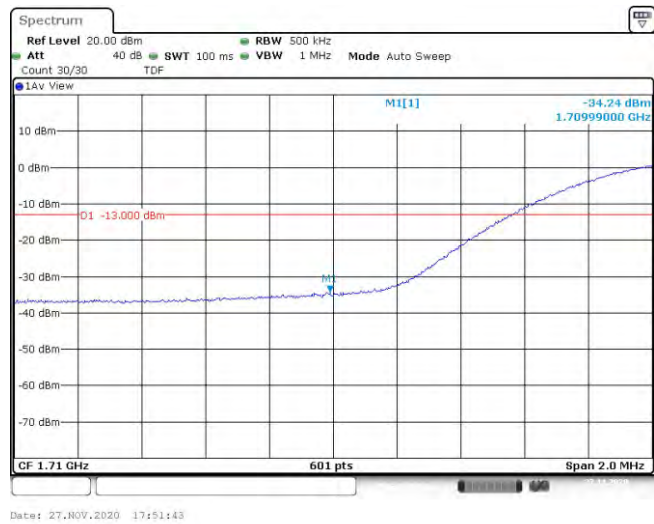
Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20300-100RB#0

