Appendix B

E-UTRA Band 4

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1 Effective (Isotropic) Radiated Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.61	22.02	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.64	22.05	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.51	21.92	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.61	22.02	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.58	21.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.71	22.12	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.64	21.05	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.73	22.14	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.90	22.31	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.82	22.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.01	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.01	22.42	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.94	22.35	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.95	21.36	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.65	22.06	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.89	22.30	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.80	22.21	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.86	22.27	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.88	22.29	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.88	22.29	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.81	21.22	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.89	21.30	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.07	21.48	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.78	21.19	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.84	21.25	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.90	21.31	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.63	21.04	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.80	20.21	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.97	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.83	21.24	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.91	21.32	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.14	21.55	30.00	PASS

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Band4	1.4MHz	16QAM	20175	3RB#1	22.08	21.49	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.98	21.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.11	20.52	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.97	21.38	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.04	21.45	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.02	20.43	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.73	21.14	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.77	21.18	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.76	21.17	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.77	20.18	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.59	20.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.59	20.00	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.50	19.91	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	20.51	19.92	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	20.53	19.94	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	20.66	20.07	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.56	18.97	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.65	20.06	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.84	20.25	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.79	20.20	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.99	20.40	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	20.94	20.35	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	20.85	20.26	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.91	19.32	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.57	19.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.82	20.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.78	20.19	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.80	20.21	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	20.86	20.27	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.84	20.25	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.80	19.21	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.58	21.99	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.50	21.91	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.78	22.19	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.72	21.13	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.78	21.19	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.77	21.18	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.60	21.01	30.00	PASS

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Band4	3MHz	QPSK	20175	1RB#0	22.97	22.38	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.90	22.31	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.68	22.09	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.98	21.39	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.92	21.33	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.91	21.32	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.91	21.32	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.68	22.09	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.71	22.12	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.72	22.13	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.71	21.12	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.65	21.06	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.70	21.11	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.61	21.02	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.80	21.21	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.66	21.07	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.45	20.86	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.85	20.26	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.77	20.18	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.91	20.32	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.70	20.11	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.63	21.04	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.74	21.15	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.32	20.73	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.03	20.44	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.05	20.46	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.13	20.54	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.09	20.50	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.21	20.62	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.13	20.54	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.99	21.40	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.83	20.24	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.77	20.18	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.83	20.24	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.80	20.21	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.50	19.91	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.49	19.90	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.72	20.13	30.00	PASS

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Band4	3MHz	64QAM	19965	8RB#0	19.72	19.13	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	19.74	19.15	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	19.69	19.10	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.54	18.95	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.94	20.35	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.81	20.22	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.60	20.01	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	19.94	19.35	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	19.84	19.25	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	19.90	19.31	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.87	19.28	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.65	20.06	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.71	20.12	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.62	20.03	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	19.65	19.06	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	19.60	19.01	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	19.65	19.06	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.55	18.96	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.60	22.01	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.55	21.96	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.78	22.19	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.73	21.14	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.78	21.19	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.68	21.09	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.66	21.07	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.90	22.31	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.75	22.16	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.51	21.92	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.89	21.30	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.96	21.37	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.76	21.17	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.85	21.26	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.61	22.02	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.59	22.00	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.75	22.16	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.65	21.06	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.70	21.11	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.85	21.26	30.00	PASS

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Band4	5MHz	QPSK	20375	25RB#0	21.72	21.13	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.75	21.16	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.75	21.16	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.06	20.47	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.82	20.23	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.57	19.98	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.69	20.10	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.75	20.16	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.08	21.49	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.69	21.10	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.77	21.18	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.76	20.17	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.01	20.42	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.75	20.16	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.91	20.32	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.61	21.02	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.03	20.44	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.57	20.98	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.78	20.19	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.59	20.00	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.86	20.27	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.89	20.30	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.54	19.95	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.52	19.93	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.74	20.15	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	19.63	19.04	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	19.76	19.17	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	19.67	19.08	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.59	19.00	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.86	20.27	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.68	20.09	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.43	19.84	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	19.86	19.27	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	19.87	19.28	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	19.66	19.07	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.85	19.26	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.53	19.94	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.53	19.94	30.00	PASS

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Band4	5MHz	64QAM	20375	1RB#24	20.70	20.11	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	19.65	19.06	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	19.70	19.11	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	19.80	19.21	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.62	19.03	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.83	22.24	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.85	22.26	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.85	22.26	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.77	21.18	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.75	21.16	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.73	21.14	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.77	21.18	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.80	22.21	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.88	22.29	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.71	22.12	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.96	21.37	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.98	21.39	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.79	21.20	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.89	21.30	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.83	22.24	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.80	22.21	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.91	22.32	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.85	21.26	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.92	21.33	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.90	21.31	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.87	21.28	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.48	20.89	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.56	20.97	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.40	20.81	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.83	20.24	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.85	20.26	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.85	20.26	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.86	20.27	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.79	21.20	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.22	21.63	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.65	21.06	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.02	20.43	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.07	20.48	30.00	PASS

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Band4	10MHz	16QAM	20175	25RB#25	20.97	20.38	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.97	20.38	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.05	21.46	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.76	21.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.80	21.21	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.92	20.33	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.96	20.37	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.99	20.40	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.97	20.38	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.80	20.21	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.77	20.18	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.82	20.23	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	19.73	19.14	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	19.68	19.09	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	19.63	19.04	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.71	19.12	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.70	20.11	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.86	20.27	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.66	20.07	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	19.92	19.33	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	19.97	19.38	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	19.77	19.18	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.87	19.28	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.76	20.17	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.74	20.15	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.88	20.29	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	19.85	19.26	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	19.91	19.32	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	19.82	19.23	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.84	19.25	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.79	22.20	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.75	22.16	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.85	22.26	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.93	21.34	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.83	21.24	30.00	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.89	21.30	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.81	21.22	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.75	22.16	30.00	PASS

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Band4	15MHz	QPSK	20175	1RB#38	22.62	22.03	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.71	22.12	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.93	21.34	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.92	21.33	30.00	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.70	21.11	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.83	21.24	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.10	22.51	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.75	22.16	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.93	22.34	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.77	21.18	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.70	21.11	30.00	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.81	21.22	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.86	21.27	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.35	20.76	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.23	20.64	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.55	20.96	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#0	20.87	20.28	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#18	20.83	20.24	30.00	PASS
Band4	15MHz	16QAM	20025	38RB#37	20.96	20.37	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.91	20.32	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.12	21.53	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.14	21.55	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.08	21.49	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#0	20.89	20.30	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#18	20.92	20.33	30.00	PASS
Band4	15MHz	16QAM	20175	38RB#37	20.71	20.12	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.89	20.30	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.74	21.15	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.25	20.66	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.24	20.65	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#0	20.90	20.31	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.79	20.20	30.00	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.00	20.41	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.81	20.22	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.72	20.13	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.71	20.12	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.76	20.17	30.00	PASS
Band4	15MHz	64QAM	20025	38RB#0	19.89	19.30	30.00	PASS

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Band4	15MHz	64QAM	20025	38RB#18	19.79	19.20	30.00	PASS
Band4	15MHz	64QAM	20025	38RB#37	19.83	19.24	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.77	19.18	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.66	20.07	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.52	19.93	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.70	20.11	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#0	19.86	19.27	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#18	19.87	19.28	30.00	PASS
Band4	15MHz	64QAM	20175	38RB#37	19.66	19.07	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.76	19.17	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.08	20.49	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.67	20.08	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.85	20.26	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#0	19.69	19.10	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#18	19.64	19.05	30.00	PASS
Band4	15MHz	64QAM	20325	38RB#37	19.72	19.13	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.76	19.17	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.83	22.24	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.85	22.26	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.85	22.26	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.70	21.11	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.77	21.18	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.87	21.28	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.72	21.13	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.97	22.38	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.87	22.28	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.55	21.96	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.98	21.39	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.96	21.37	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.77	21.18	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.93	21.34	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.94	22.35	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.83	22.24	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.94	22.35	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.02	21.43	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.62	21.03	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.75	21.16	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.75	21.16	30.00	PASS

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Band4	20MHz	16QAM	20050	1RB#0	21.44	20.85	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.35	20.76	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.29	20.70	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.79	20.20	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.76	20.17	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.81	20.22	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.78	20.19	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.55	20.96	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.23	21.64	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.81	21.22	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.00	20.41	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.98	20.39	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.84	20.25	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.87	20.28	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.69	21.10	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.32	20.73	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.16	20.57	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.20	20.61	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.90	20.31	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.78	20.19	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.75	20.16	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.75	20.16	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.85	20.26	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.76	20.17	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	19.63	19.04	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	19.70	19.11	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	19.80	19.21	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.67	19.08	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.94	20.35	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.79	20.20	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.51	19.92	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	19.88	19.29	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	19.89	19.30	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	19.68	19.09	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.91	19.32	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.93	20.34	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.74	20.15	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.94	20.35	30.00	PASS

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Band4	20MHz	64QAM	20300	50RB#0	20.00	19.41	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	19.53	18.94	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	19.69	19.10	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.72	19.13	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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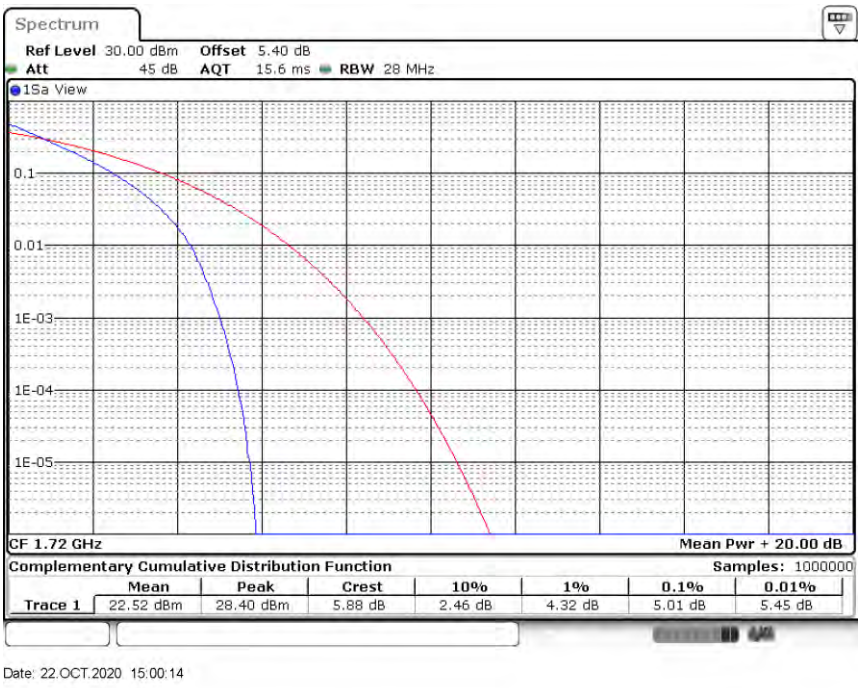
2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.01	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.81	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.86	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.77	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.83	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.55	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.46	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.52	13	PASS

2.2 Test Plots

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



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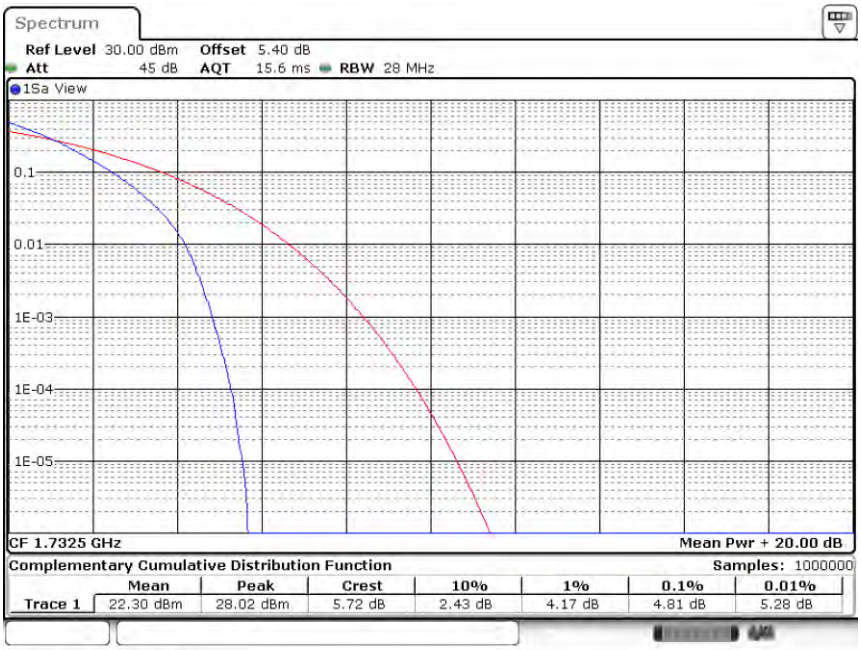
Band4-20MHz-QPSK-20175-100RB#0



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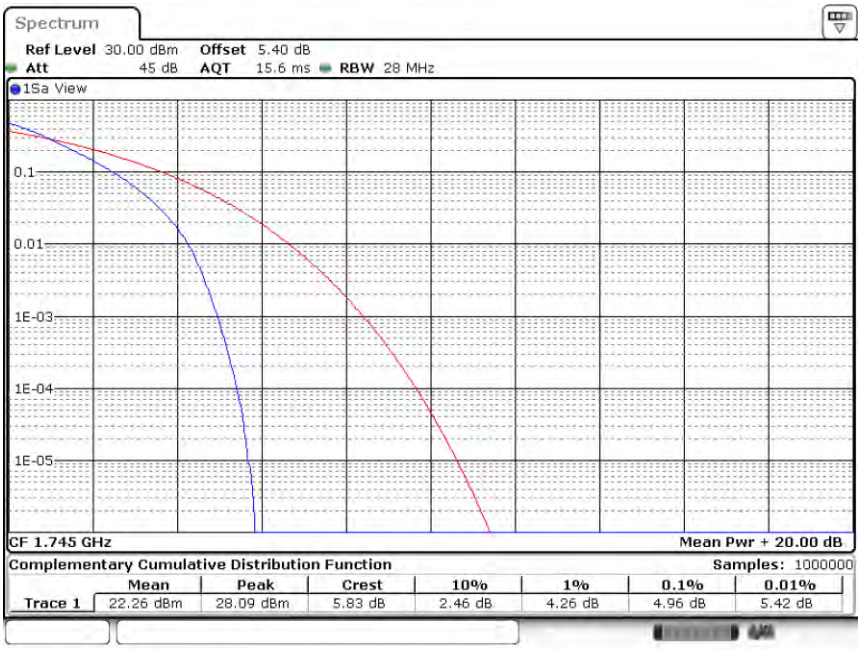
Band4-20MHz-QPSK-20300-100RB#0



Date: 22.OCT.2020 15:01:12

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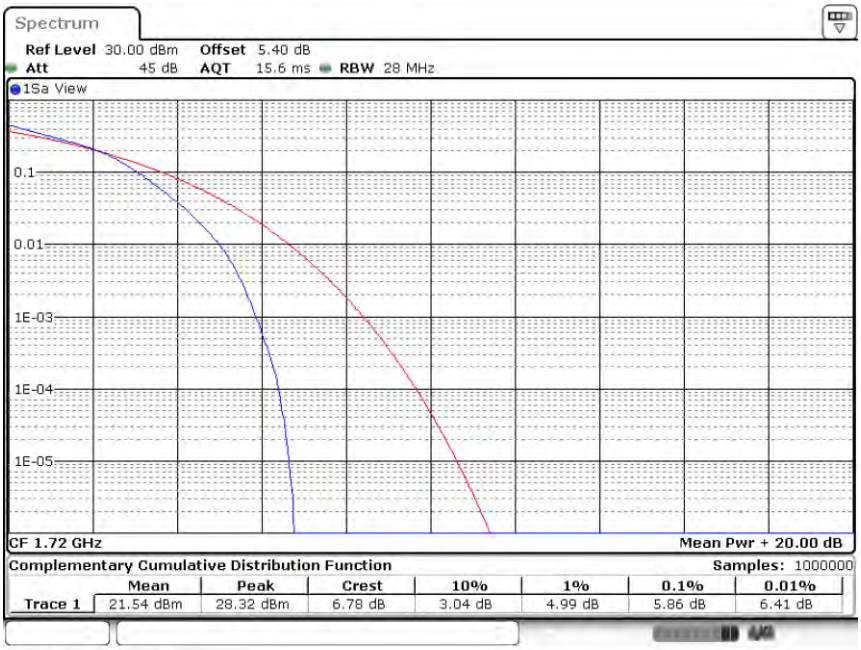
Band4-20MHz-16QAM-20050-100RB#0



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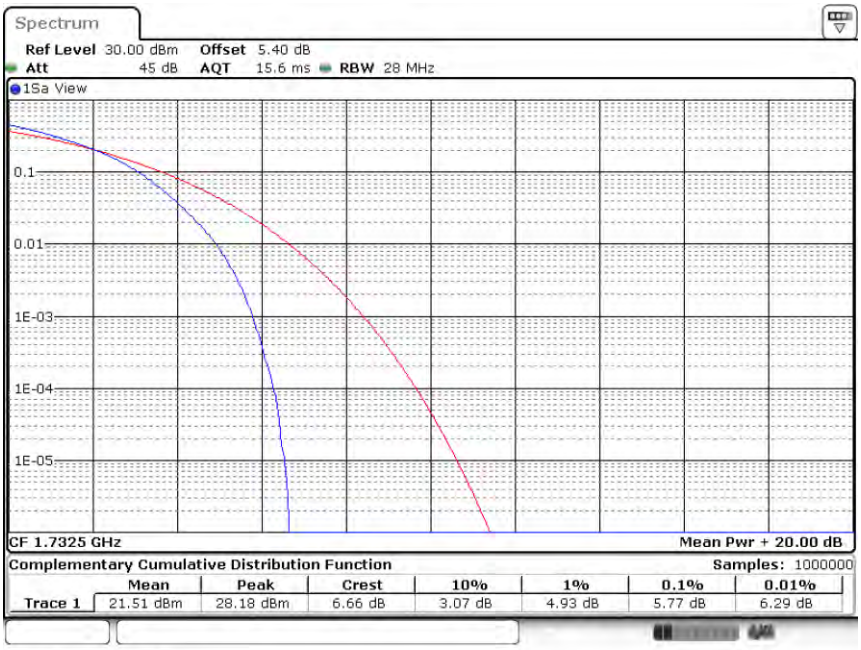
Band4-20MHz-16QAM-20175-100RB#0



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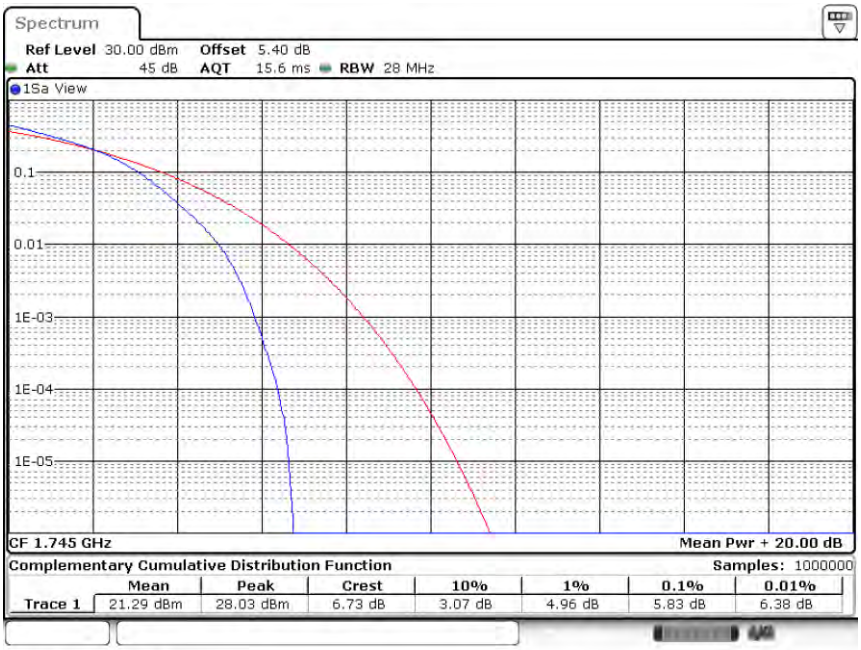
Band4-20MHz-16QAM-20300-100RB#0



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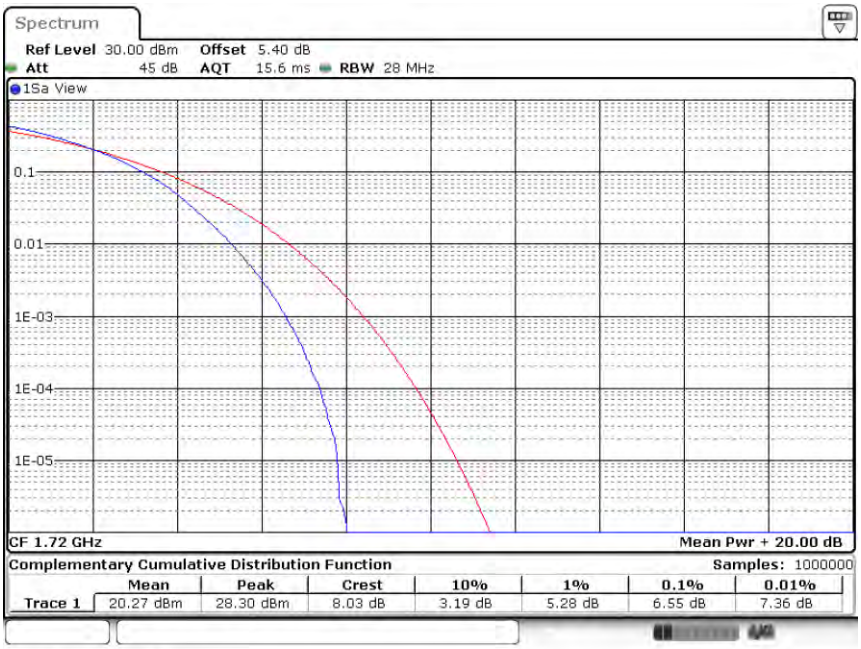
Band4-20MHz-64QAM-20050-100RB#0



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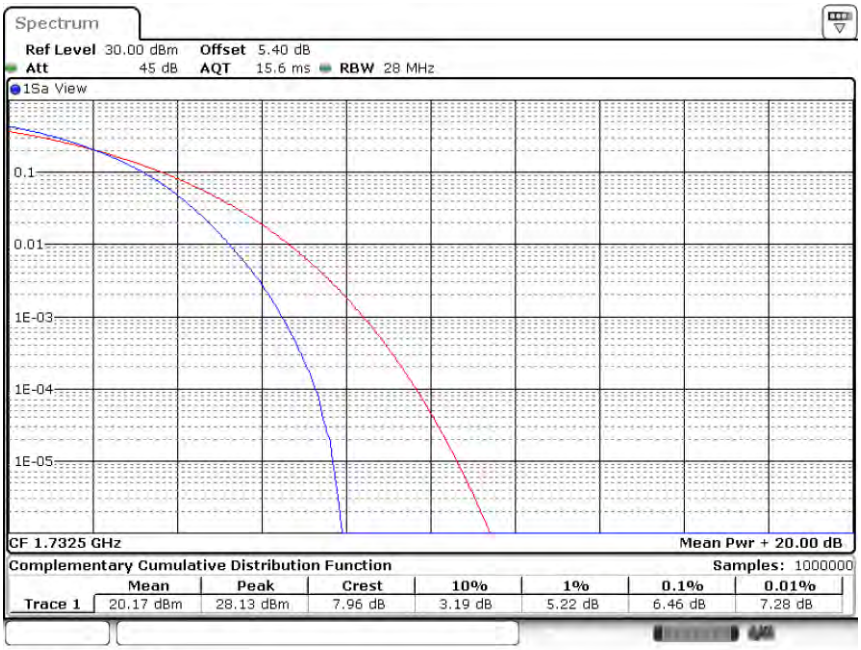

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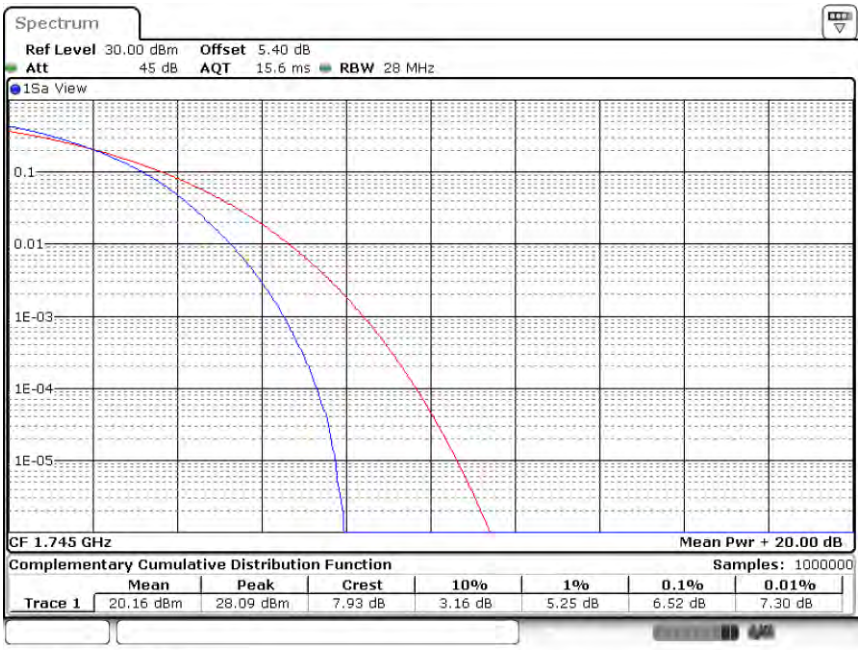
Band4-20MHz-64QAM-20300-100RB#0



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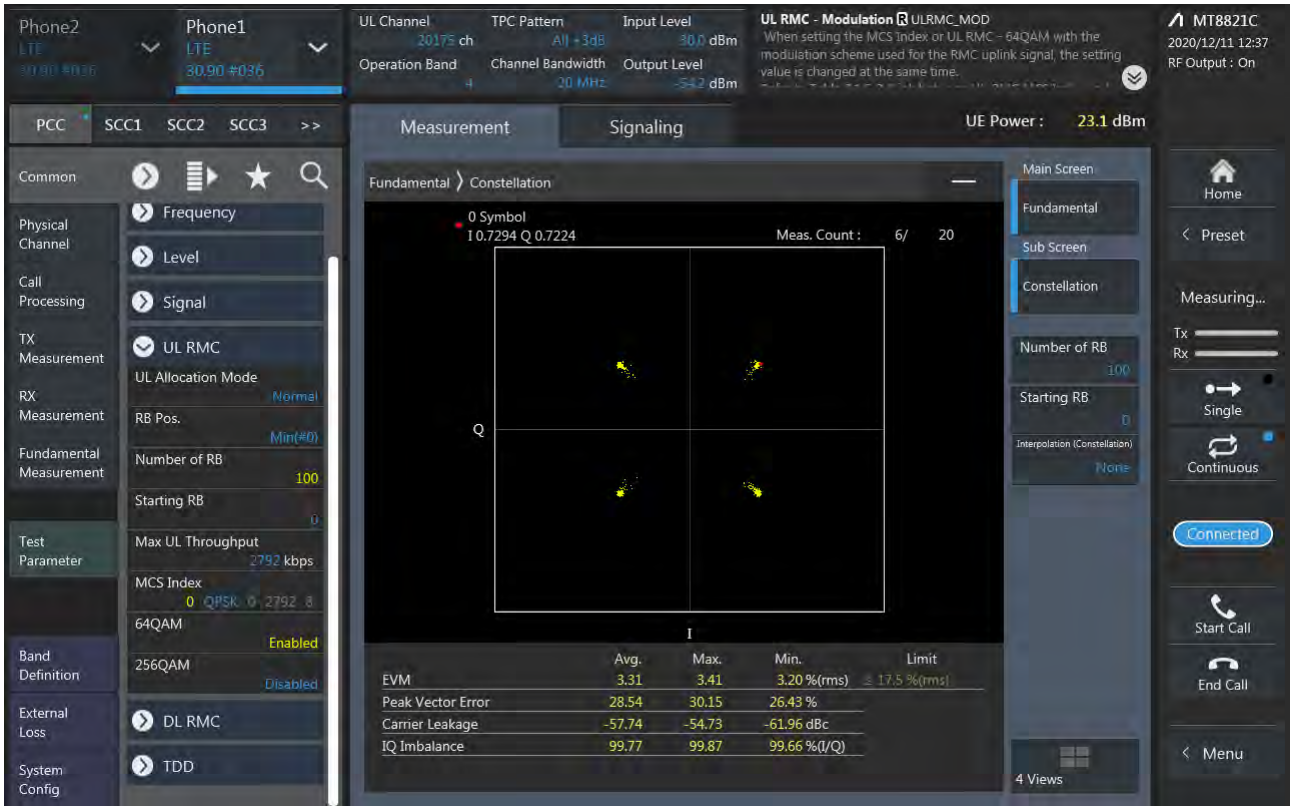
3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

3.1.1 Test Channel = MCH



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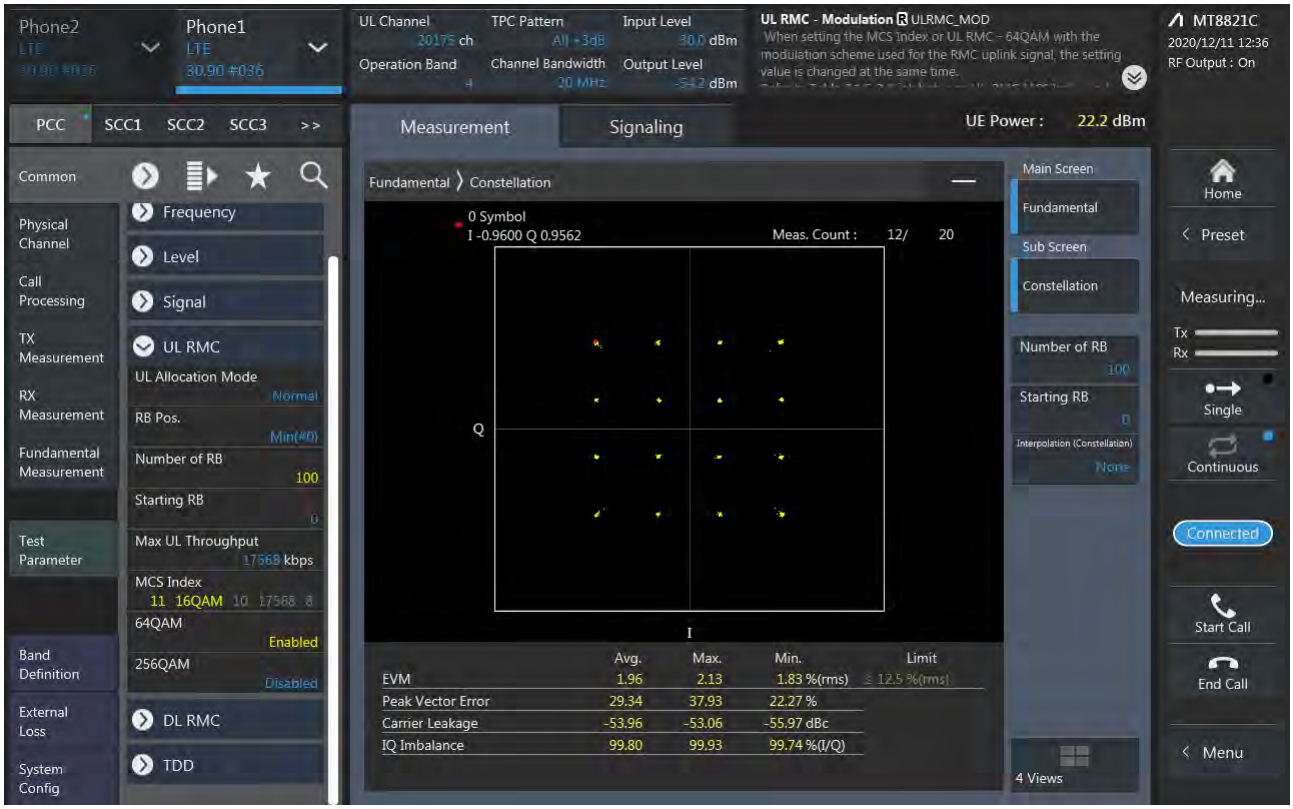
3.2 Test Mode = LTE /TM2 20MHz

3.2.1Test Channel = MCH



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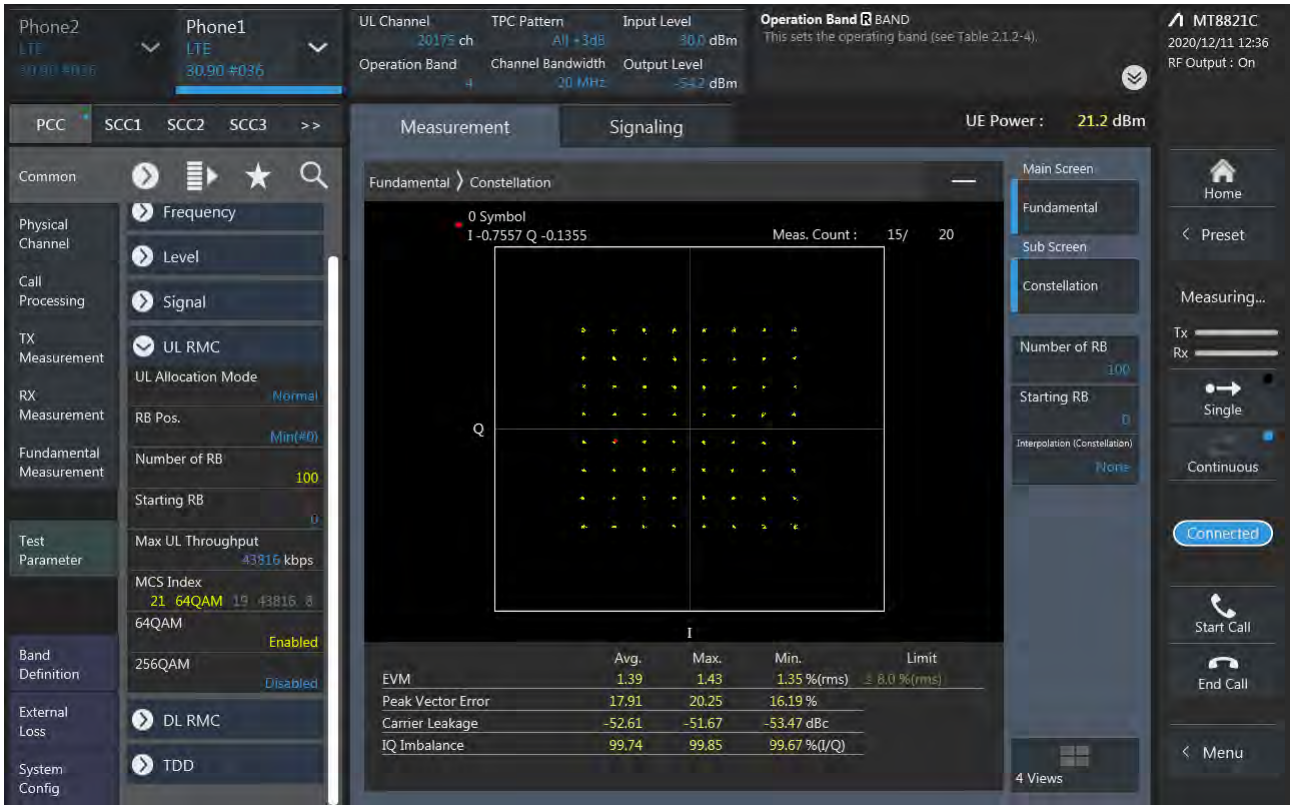
3.3 Test Mode = LTE /TM3 20MHz

3.3.1 Test Channel = MCH



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4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.091	1.293	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.097	1.281	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.278	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.094	1.284	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.278	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.097	1.293	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.266	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.296	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	3.006	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.994	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.982	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.970	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.976	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.685	2.970	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.970	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.697	2.982	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.900	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.950	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.930	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.486	4.960	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.910	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.466	4.920	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.920	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.911	9.680	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.891	9.700	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.700	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.680	PASS

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Band4	10MHz	16QAM	20175	50RB#0	8.911	9.720	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.760	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.700	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.911	9.580	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.660	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.457	14.670	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.397	14.730	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.760	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.820	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.640	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.730	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.457	14.730	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.397	14.700	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.397	14.760	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.862	19.400	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.782	19.240	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.360	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.480	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.782	19.320	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.400	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.862	19.520	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.782	19.360	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.400	PASS

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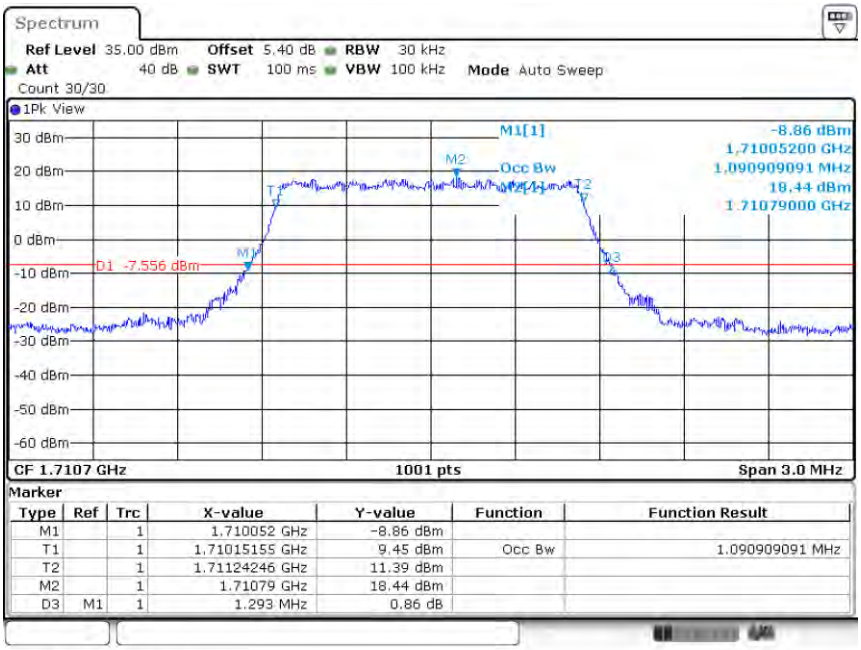
4.2 Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.091



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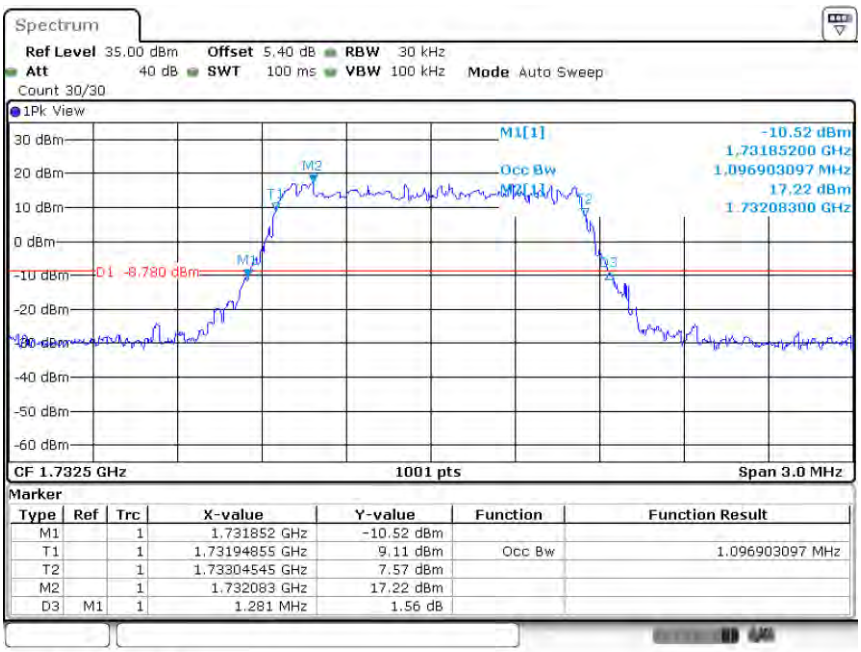
Band4-1.4MHz-QPSK-20175-6RB#0-1.097



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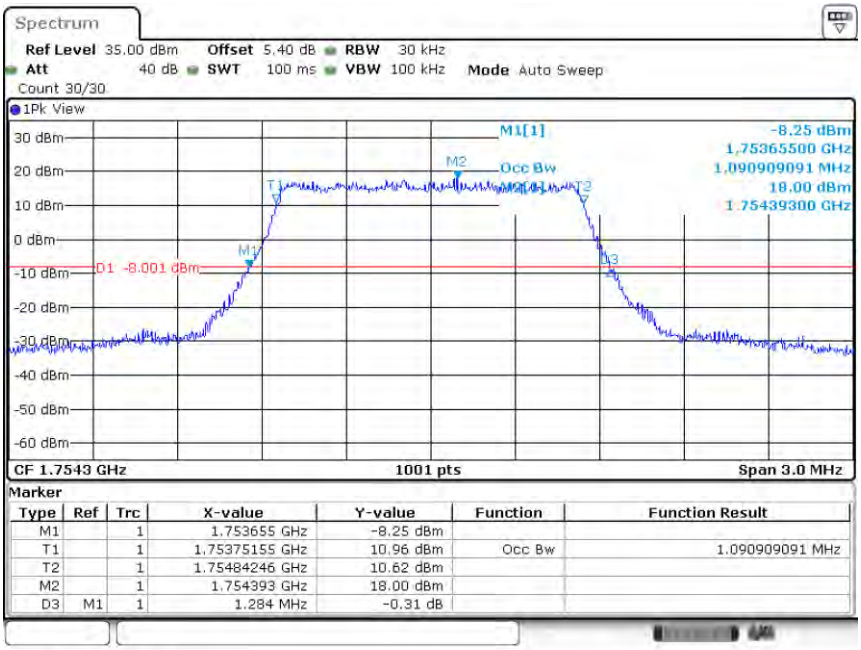
Band4-1.4MHz-QPSK-20393-6RB#0-1.091



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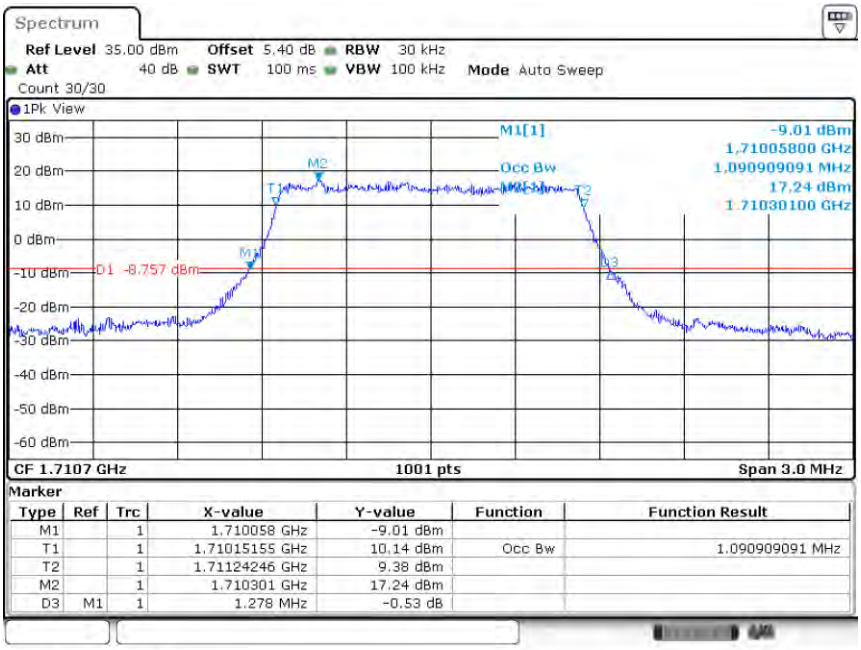
Band4-1.4MHz-16QAM-19957-6RB#0-1.091



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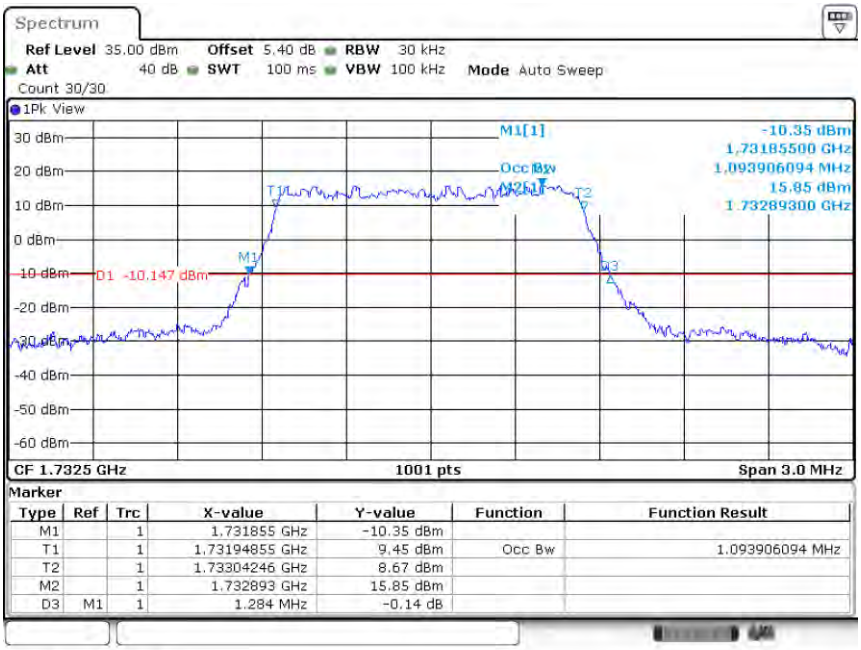
Band4-1.4MHz-16QAM-20175-6RB#0-1.094



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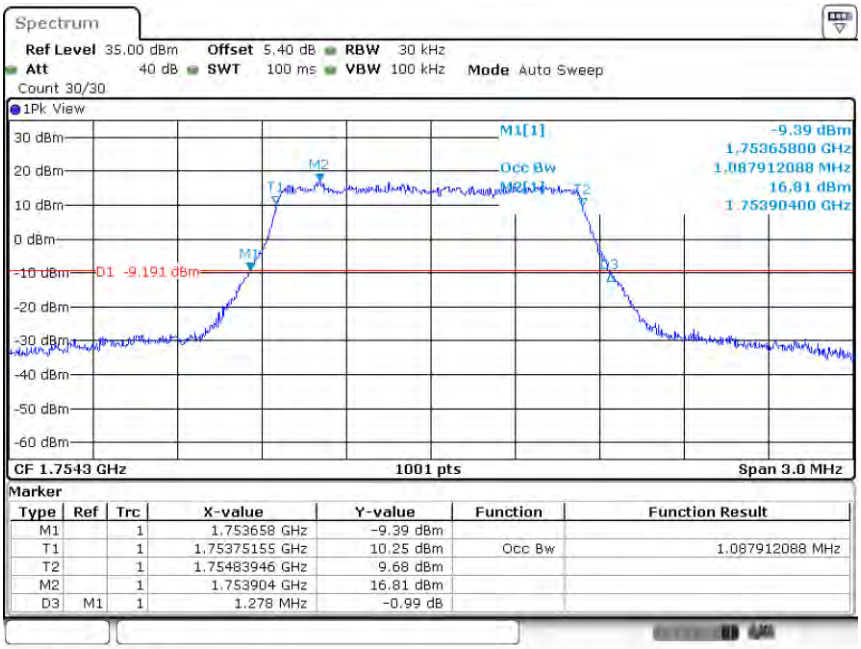

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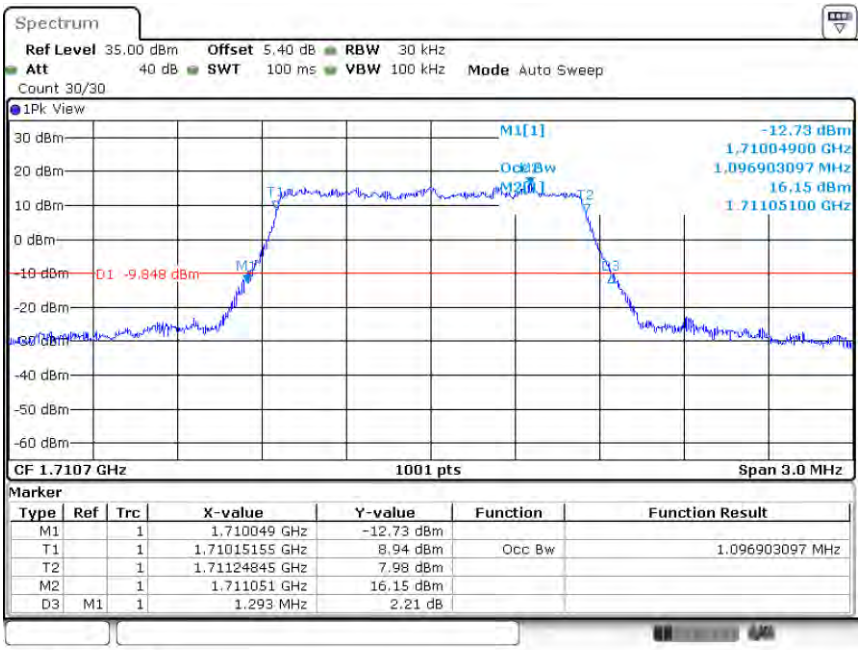
Band4-1.4MHz-64QAM-19957-6RB#0-1.097



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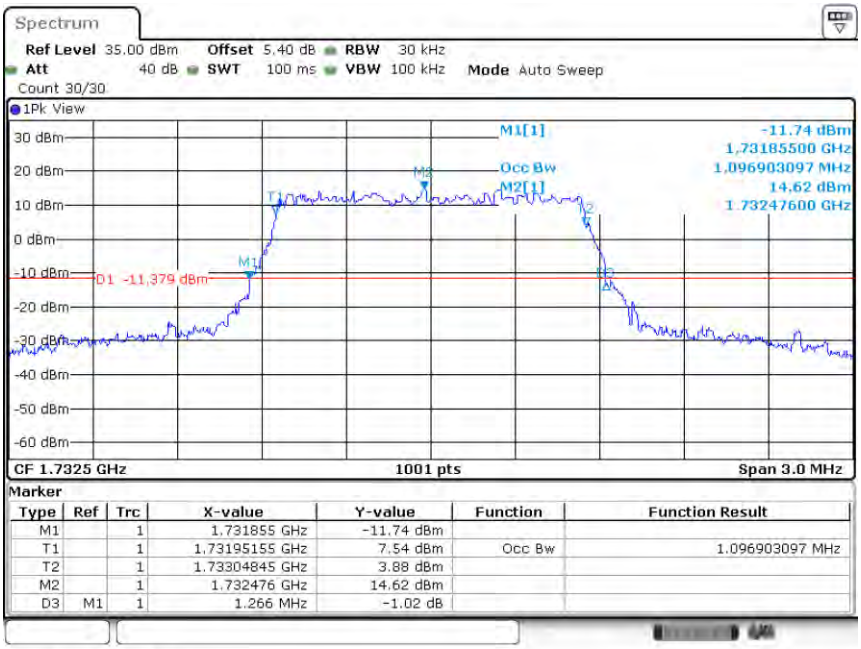

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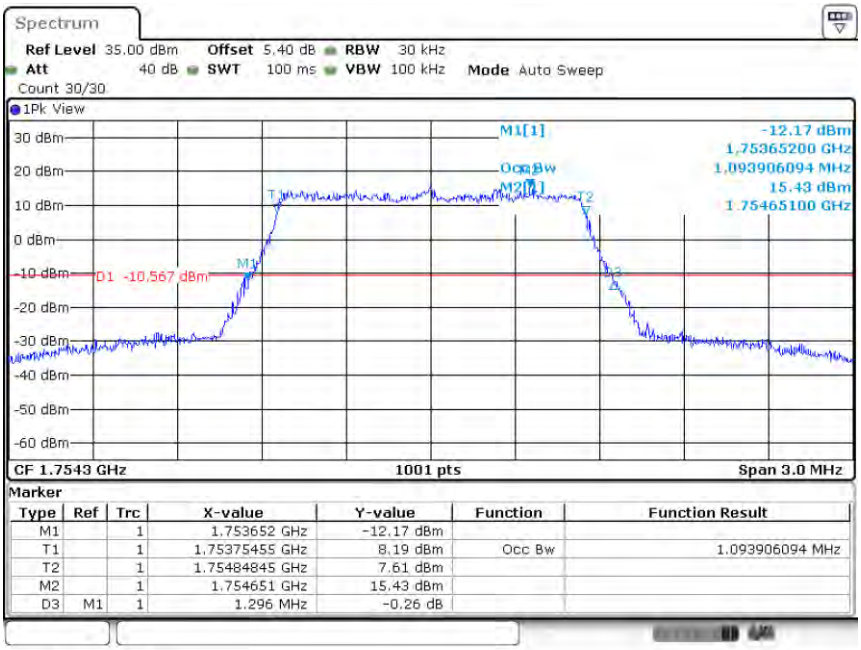
Band4-1.4MHz-64QAM-20393-6RB#0-1.094



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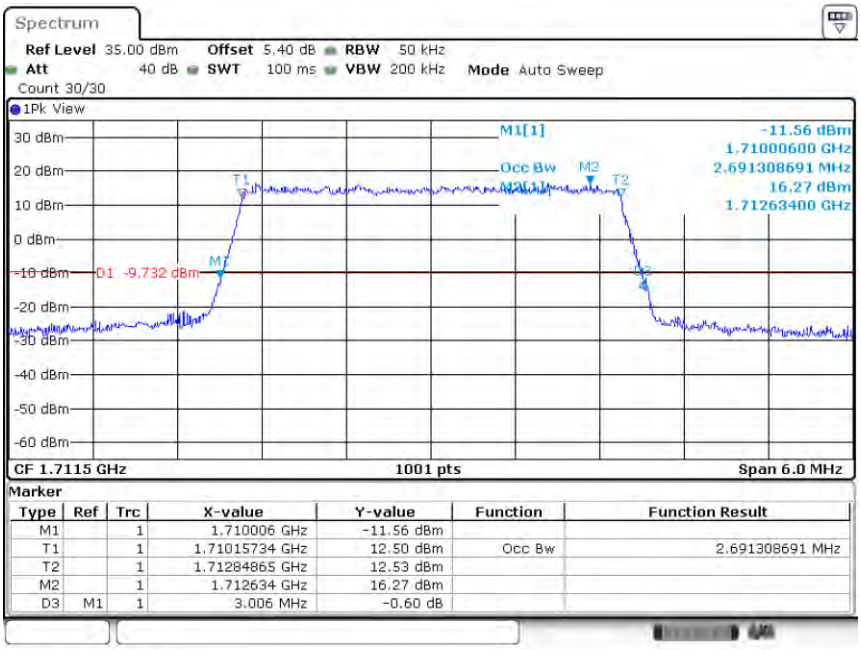
Band4-3MHz-QPSK-19965-15RB#0-2.691



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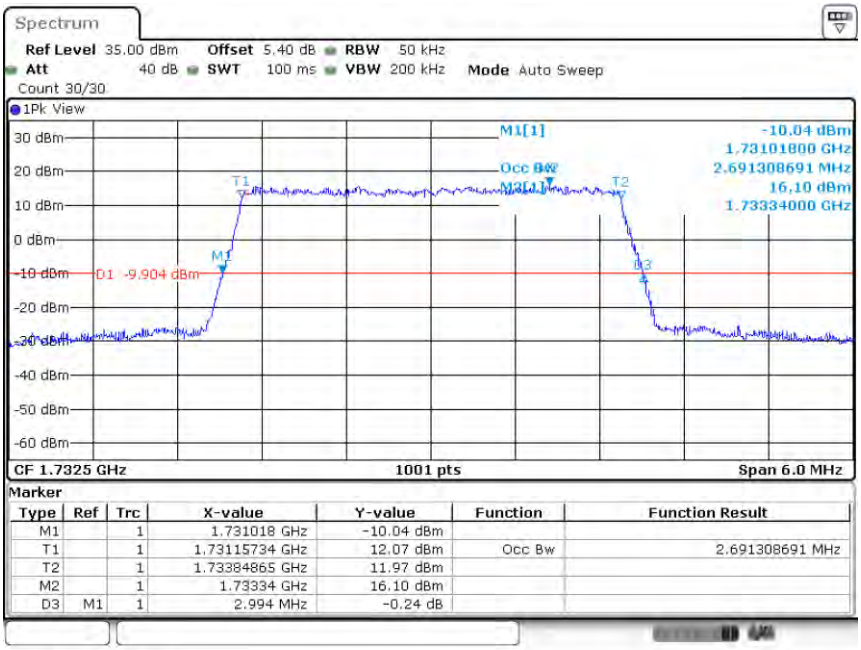
Band4-3MHz-QPSK-20175-15RB#0-2.691



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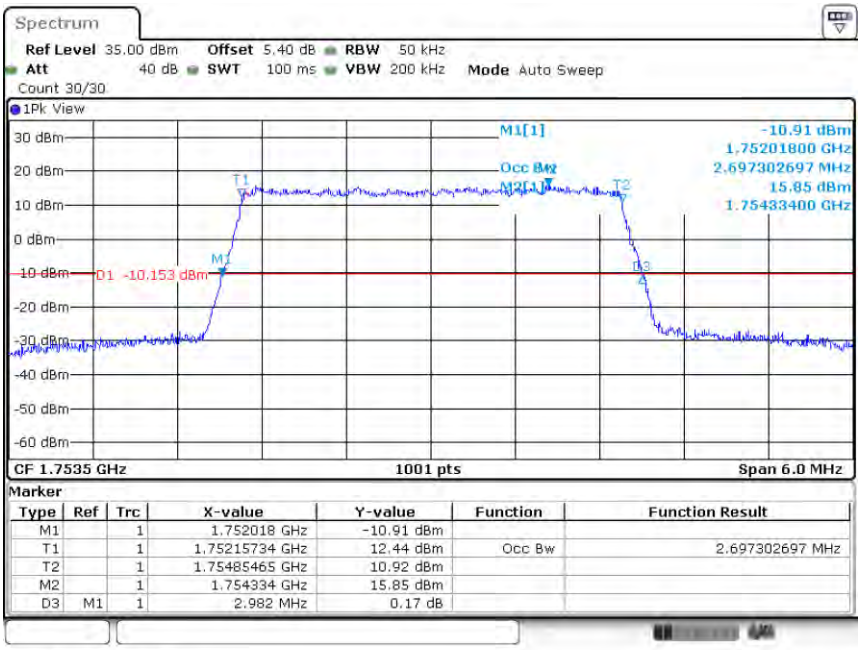
Band4-3MHz-QPSK-20385-15RB#0-2.697



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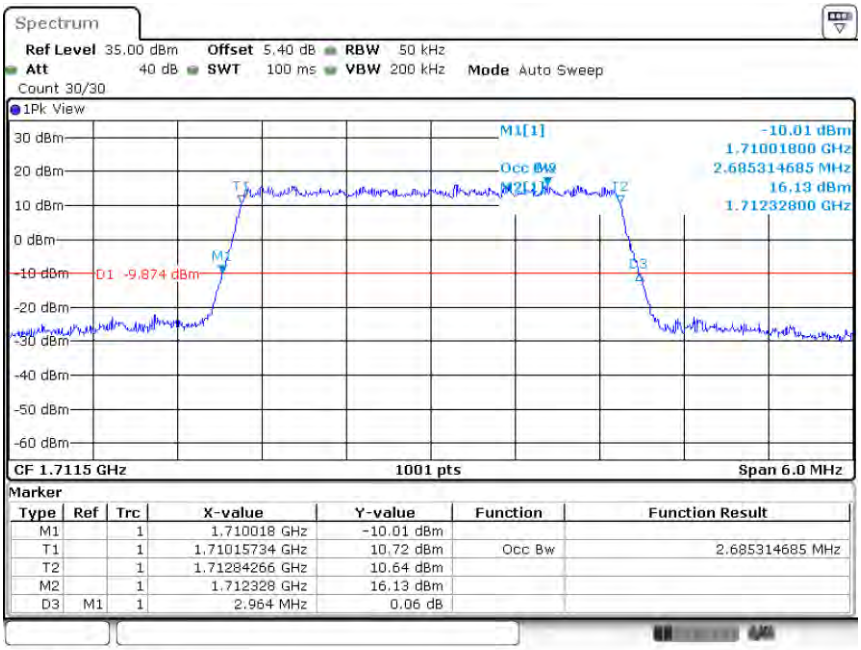
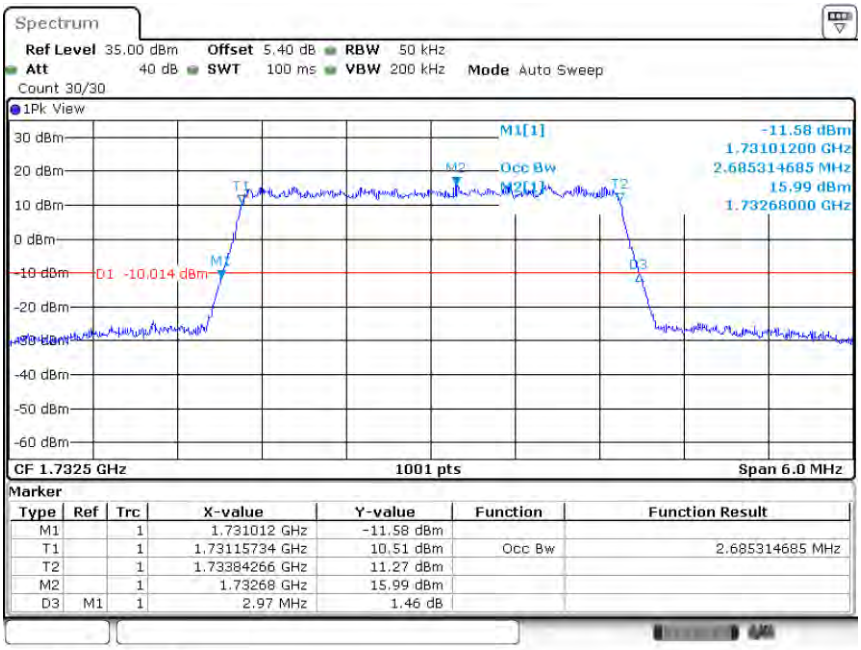
Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 22.OCT.2020 14:32:13

Band4-3MHz-16QAM-20175-15RB#0-2.685



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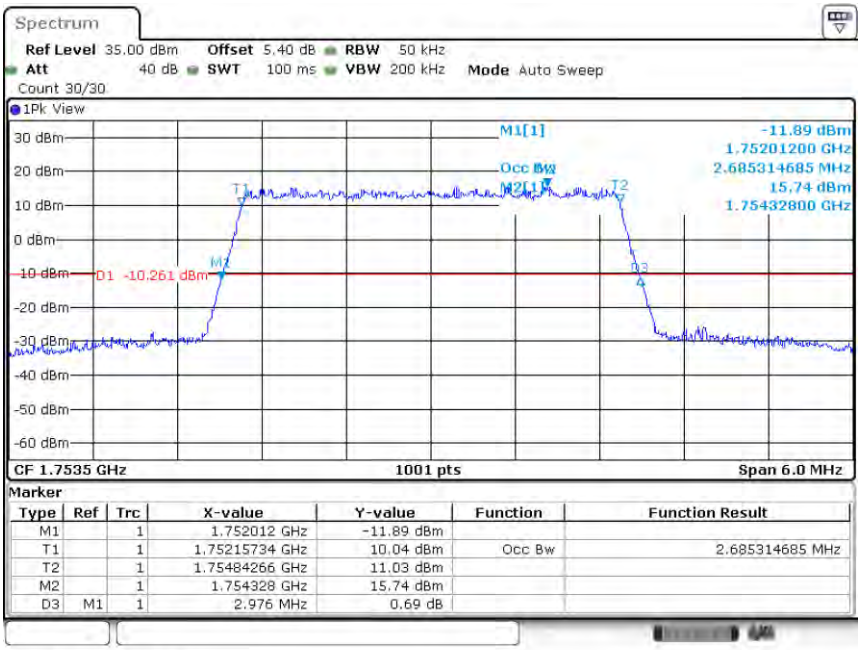
Band4-3MHz-16QAM-20385-15RB#0-2.685



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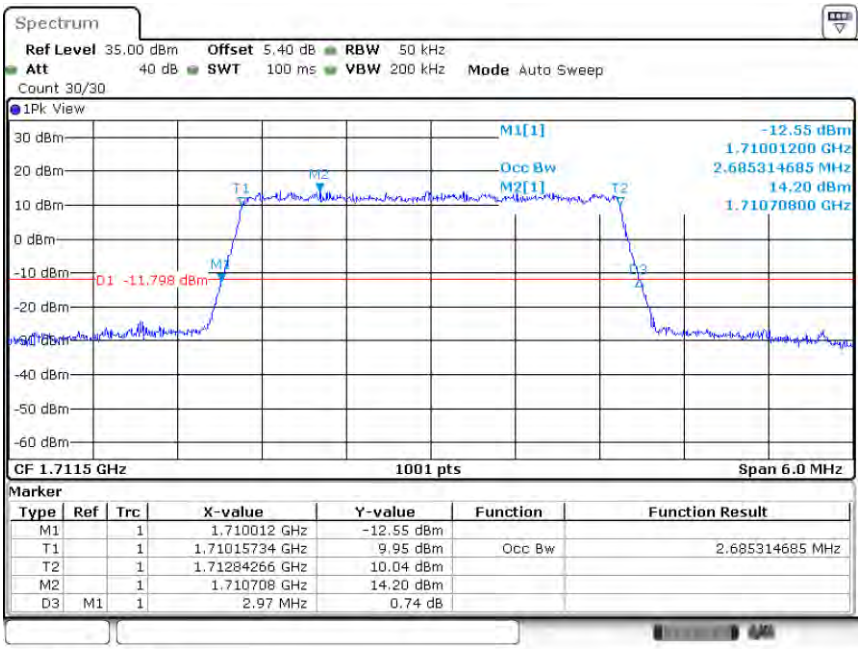
Band4-3MHz-64QAM-19965-15RB#0-2.685



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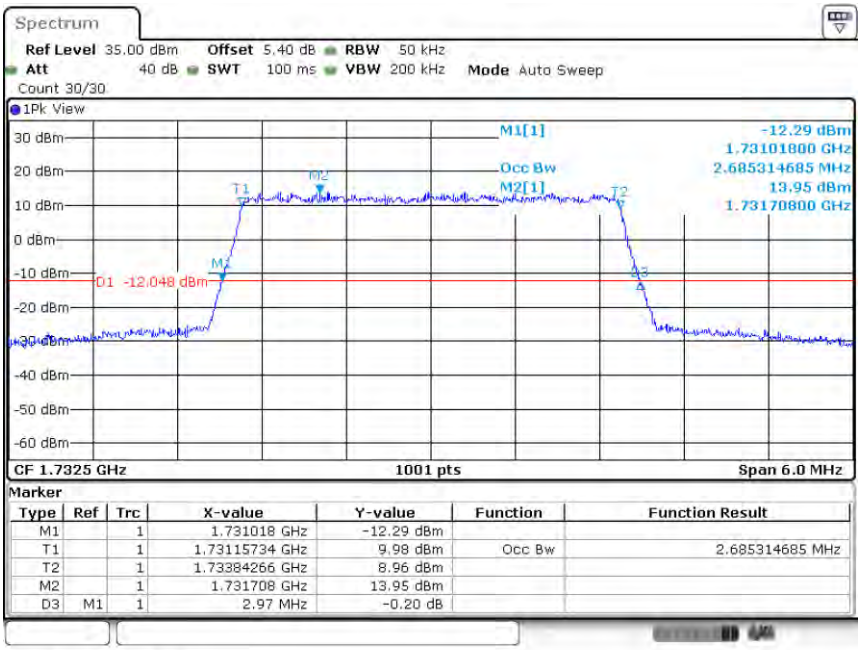

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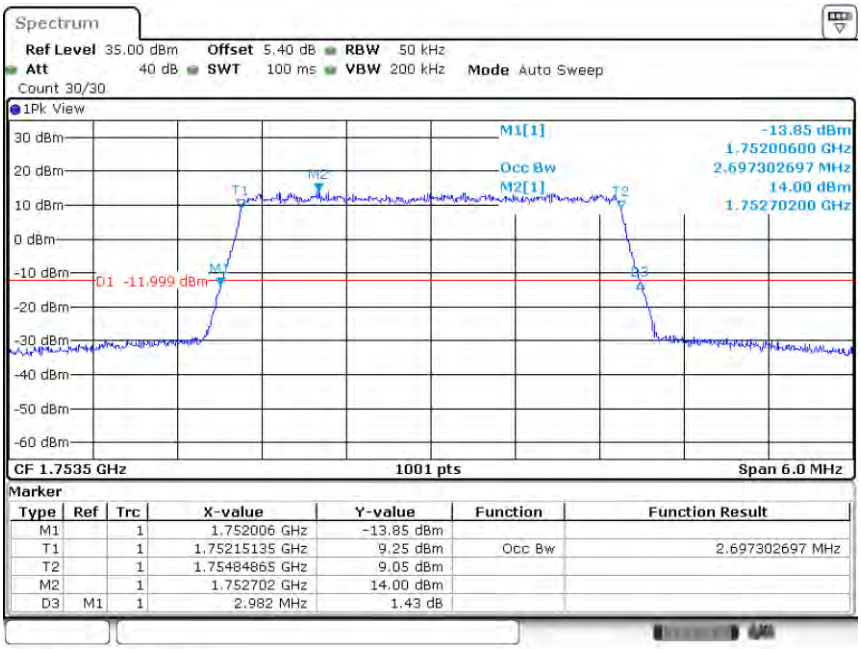
Band4-3MHz-64QAM-20385-15RB#0-2.697



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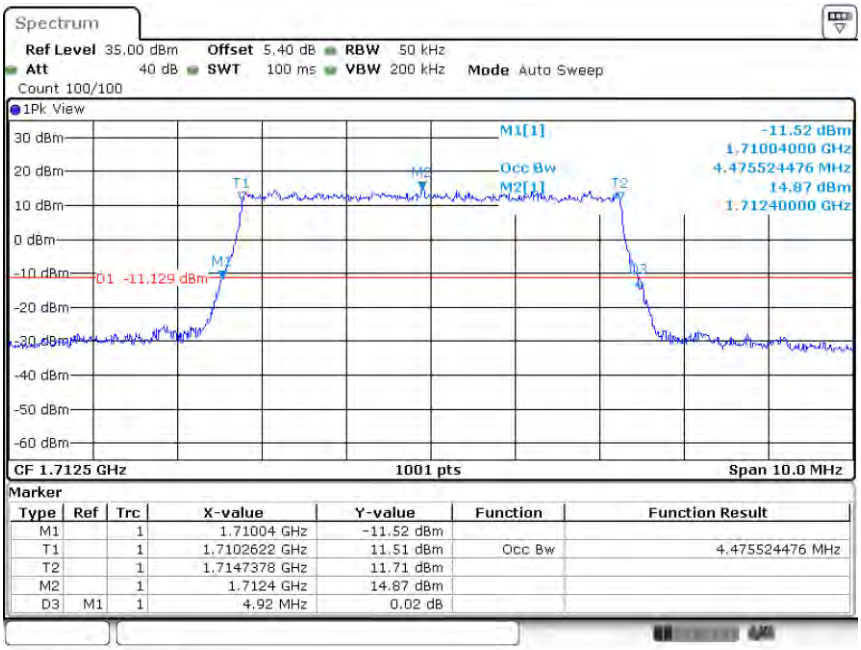
Band4-5MHz-QPSK-19975-25RB#0-4.476

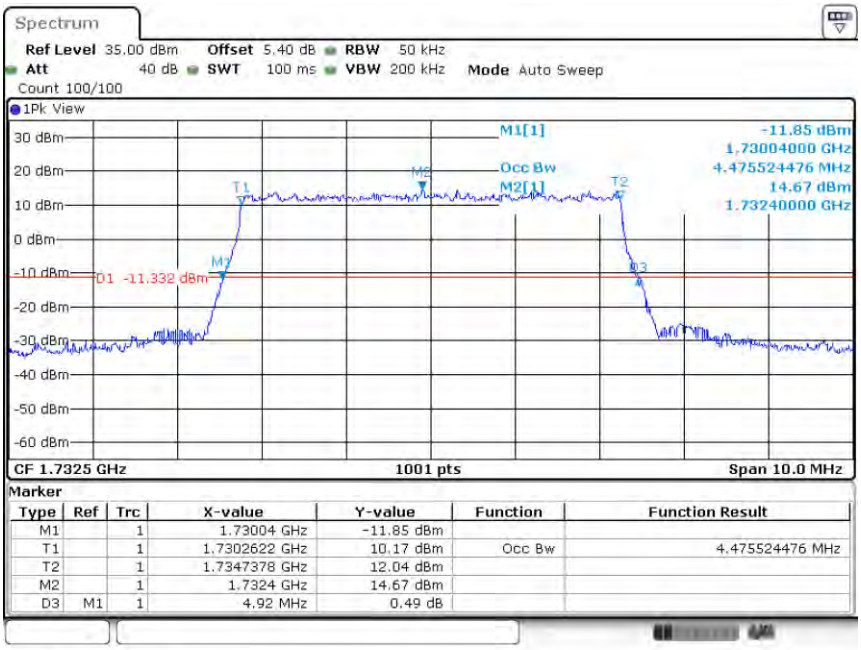


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.71004 GHz	-11.52 dBm		
T1		1	1.7102622 GHz	11.51 dBm	Occ Bw	4.475524476 MHz
T2		1	1.7147378 GHz	11.71 dBm		
M2		1	1.7124 GHz	14.87 dBm		
D3	M1	1	4.92 MHz	0.02 dB		

Date: 22.OCT.2020 14:33:46

Band4-5MHz-QPSK-20175-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.73004 GHz	-11.85 dBm		
T1		1	1.7302622 GHz	10.17 dBm	Occ Bw	4.475524476 MHz
T2		1	1.7347378 GHz	12.04 dBm		
M2		1	1.7324 GHz	14.67 dBm		
D3	M1	1	4.92 MHz	0.49 dB		

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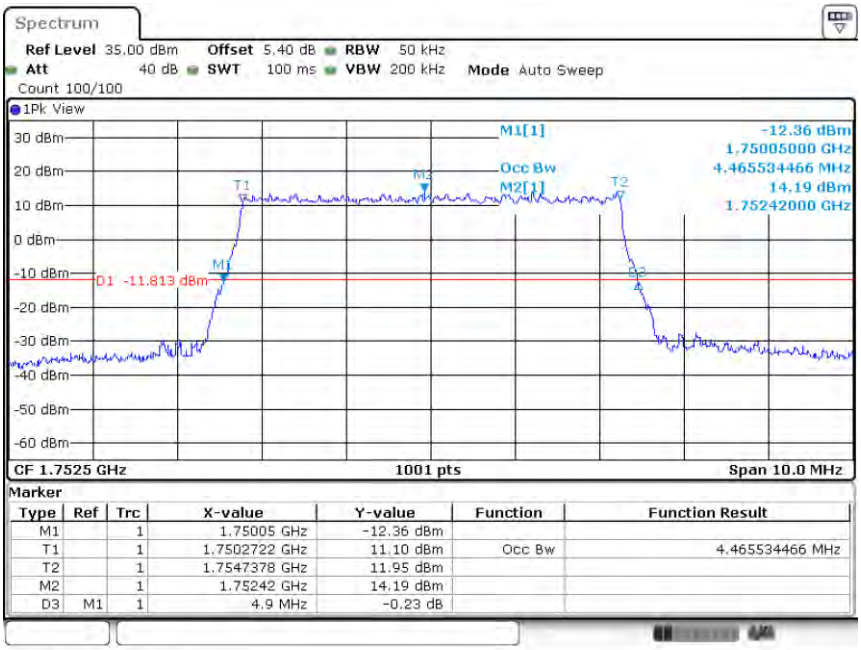
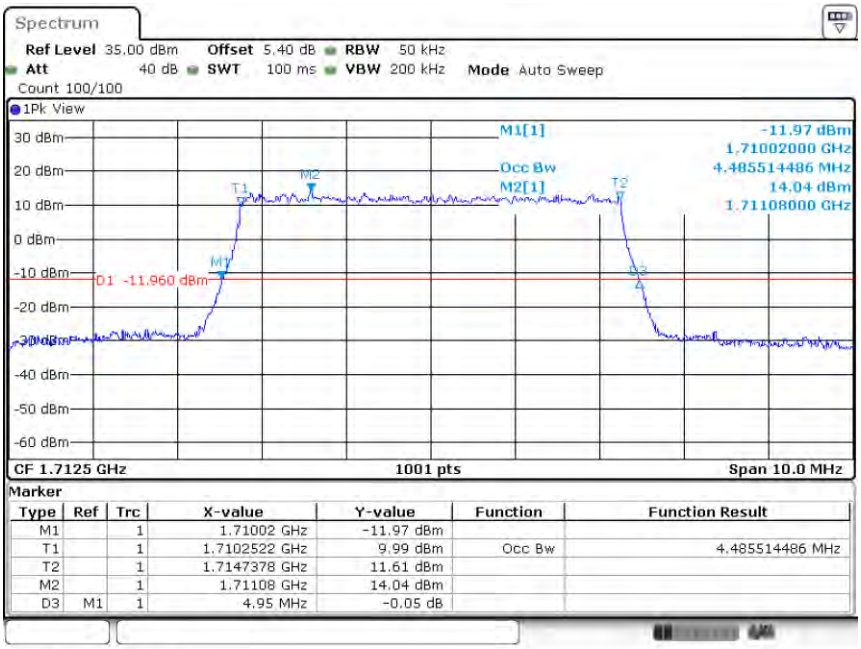
Band4-5MHz-QPSK-20375-25RB#0-4.466



Date: 22.OCT.2020 14:35:18

Band4-5MHz-16QAM-19975-25RB#0-4.486



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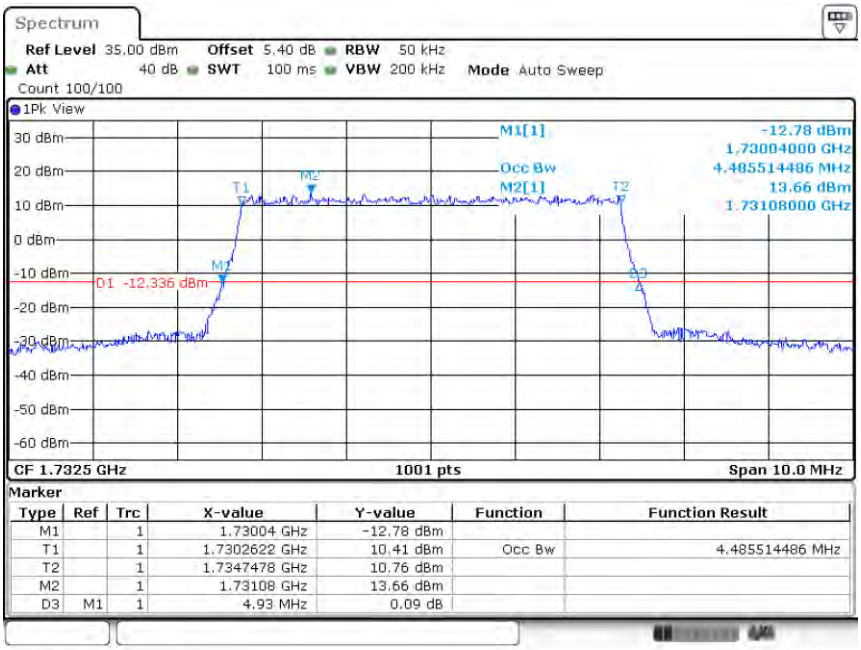

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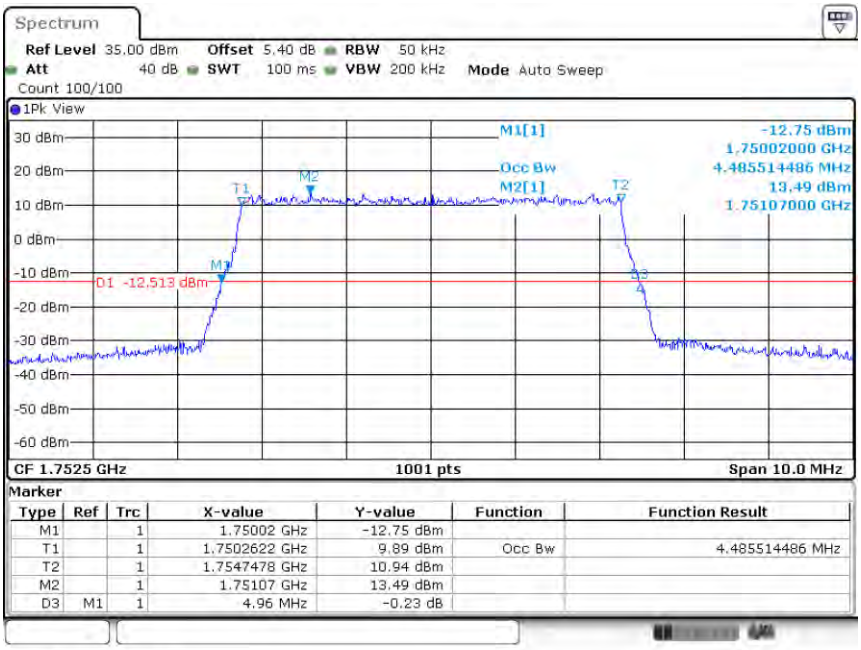
Band4-5MHz-16QAM-20375-25RB#0-4.486



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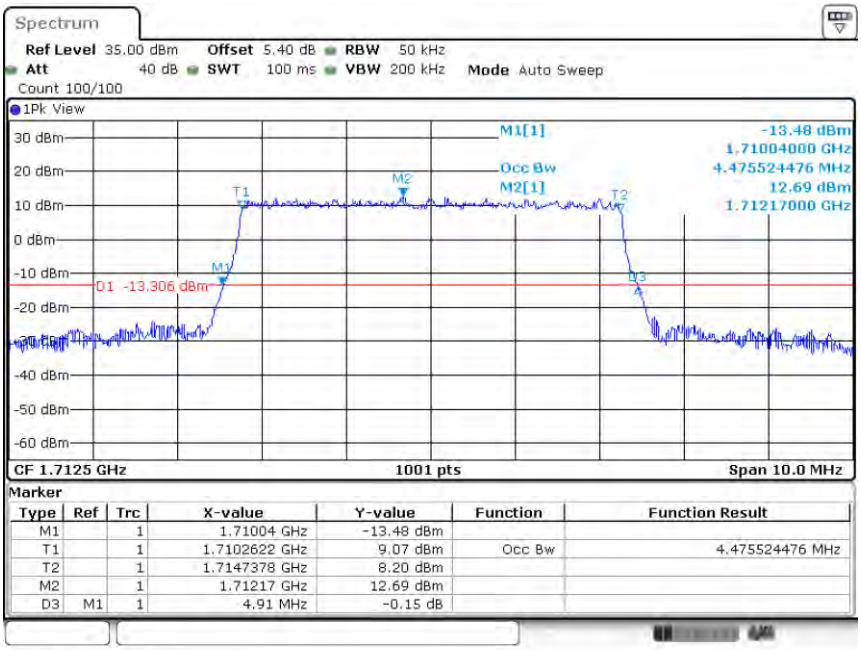
Band4-5MHz-64QAM-19975-25RB#0-4.476



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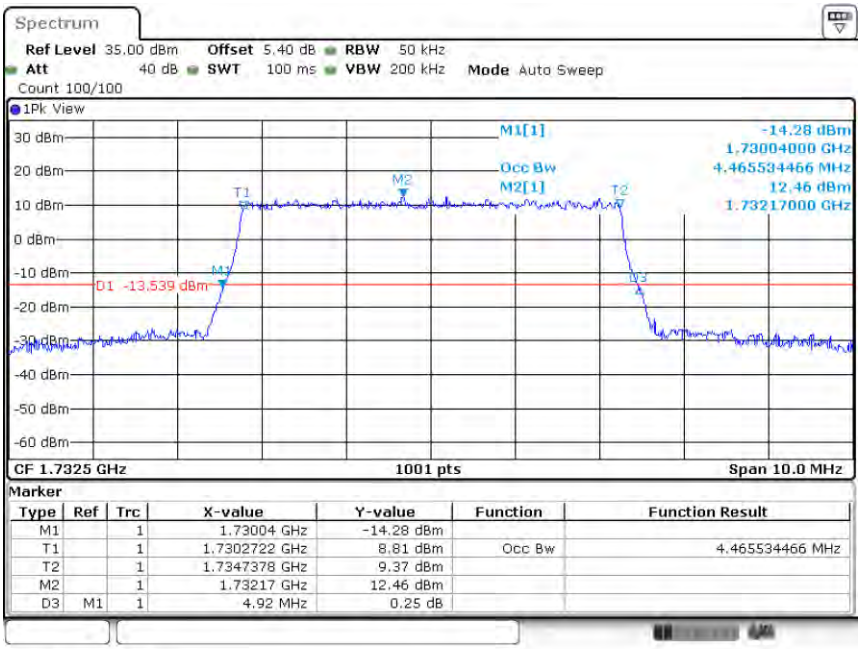
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.71004 GHz	-13.48 dBm		
T1		1	1.7102622 GHz	9.07 dBm	Occ Bw	4.475524476 MHz
T2		1	1.7147378 GHz	8.20 dBm		
M2		1	1.71217 GHz	12.69 dBm		
D3	M1	1	4.91 MHz	-0.15 dB		

Date: 22.OCT.2020 16:18:35

Band4-5MHz-64QAM-20175-25RB#0-4.466



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.73004 GHz	-14.28 dBm		
T1		1	1.7302722 GHz	8.81 dBm	Occ Bw	4.465534466 MHz
T2		1	1.7347378 GHz	9.37 dBm		
M2		1	1.73217 GHz	12.46 dBm		
D3	M1	1	4.92 MHz	0.25 dB		

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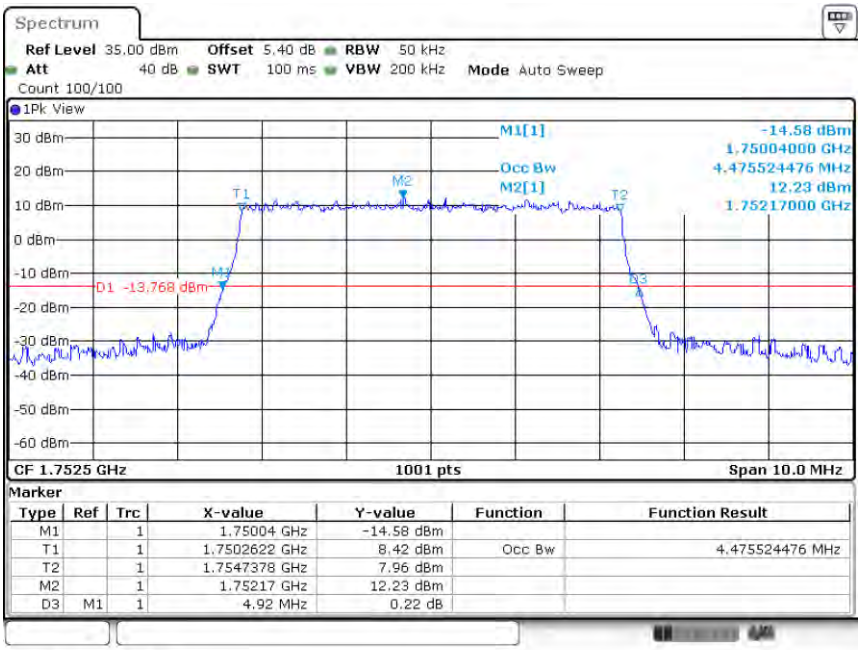
Band4-5MHz-64QAM-20375-25RB#0-4.476



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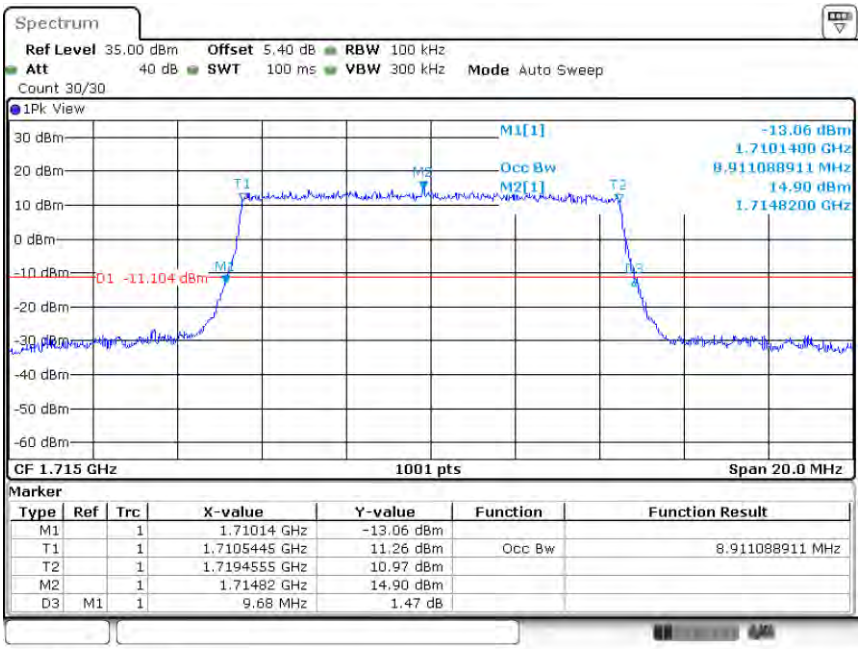
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.75004 GHz	-14.58 dBm		
T1		1	1.7502622 GHz	8.42 dBm	Occ Bw	4.475524476 MHz
T2		1	1.7547378 GHz	7.96 dBm		
M2		1	1.75217 GHz	12.23 dBm		
D3	M1	1	4.92 MHz	0.22 dB		

Date: 22.OCT.2020 16:19:21

Band4-10MHz-QPSK-20000-50RB#0-8.911



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.71014 GHz	-13.06 dBm		
T1		1	1.7105445 GHz	11.26 dBm	Occ Bw	8.911088911 MHz
T2		1	1.7194555 GHz	10.97 dBm		
M2		1	1.71482 GHz	14.90 dBm		
D3	M1	1	9.68 MHz	1.47 dB		

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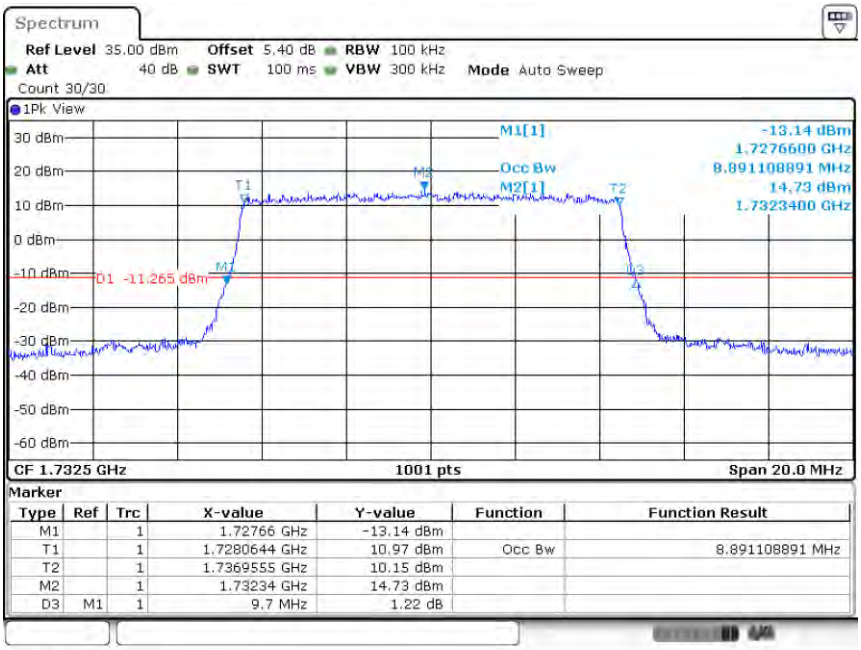
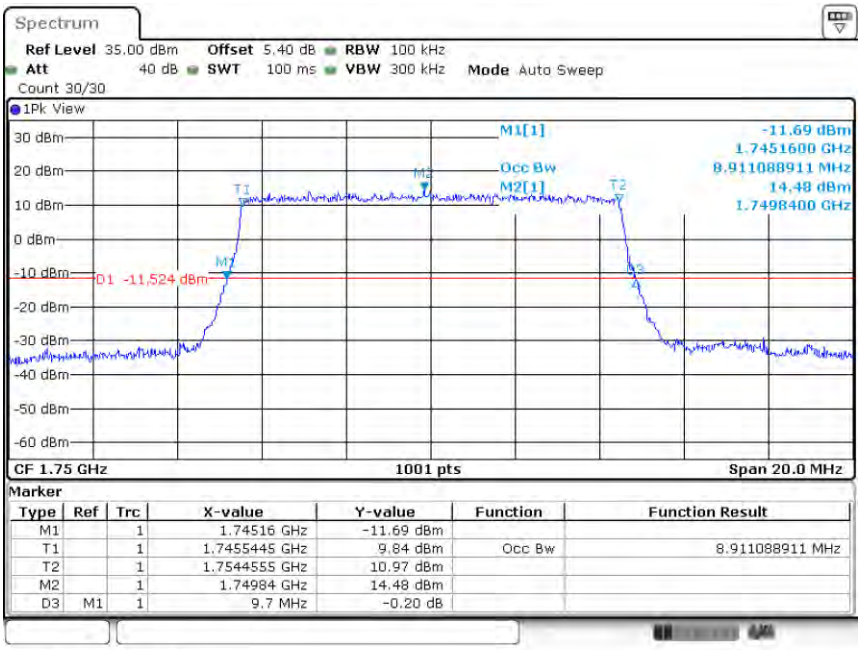
Band4-10MHz-QPSK-20175-50RB#0-8.891



Date: 22.OCT.2020 14:36:35

Band4-10MHz-QPSK-20350-50RB#0-8.911



Date: 22.OCT.2020 14:37:07

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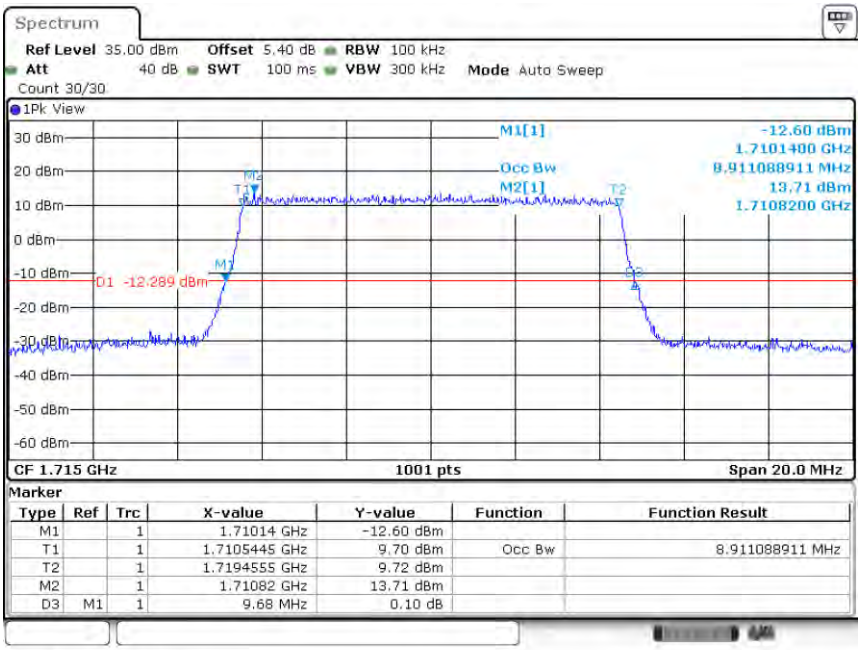
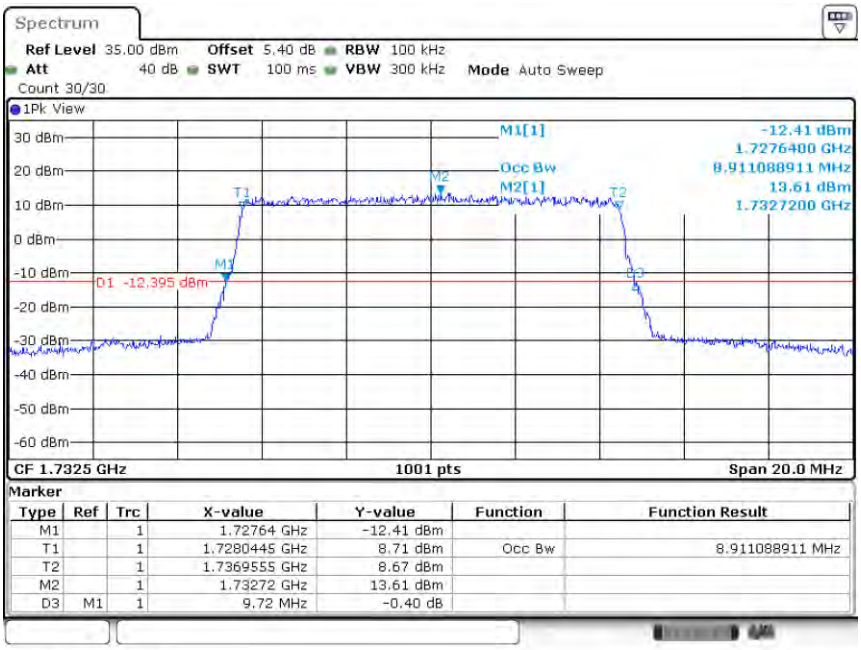
Band4-10MHz-16QAM-20000-50RB#0-8.911



Date: 22.OCT.2020 14:36:19

Band4-10MHz-16QAM-20175-50RB#0-8.911



Date: 22.OCT.2020 14:36:51

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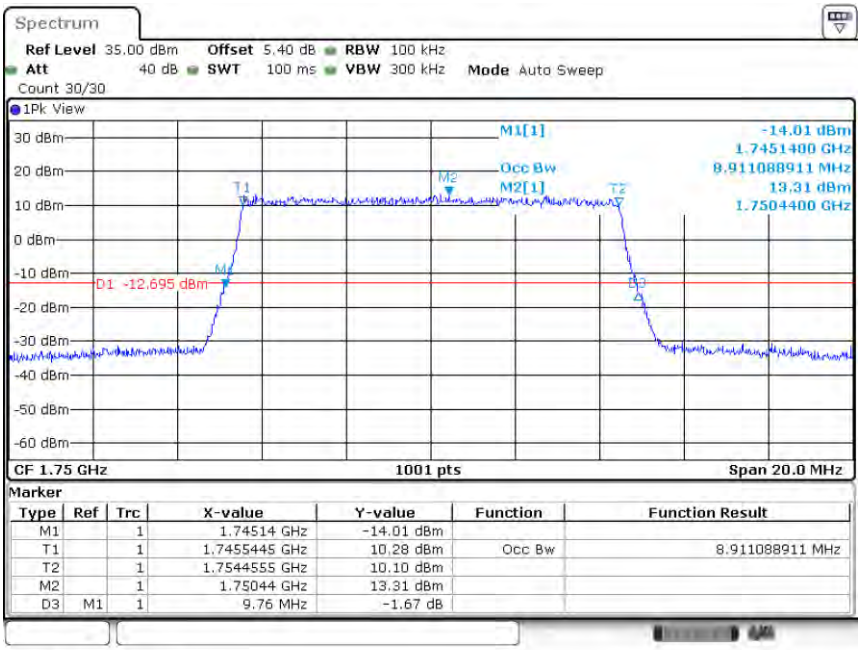
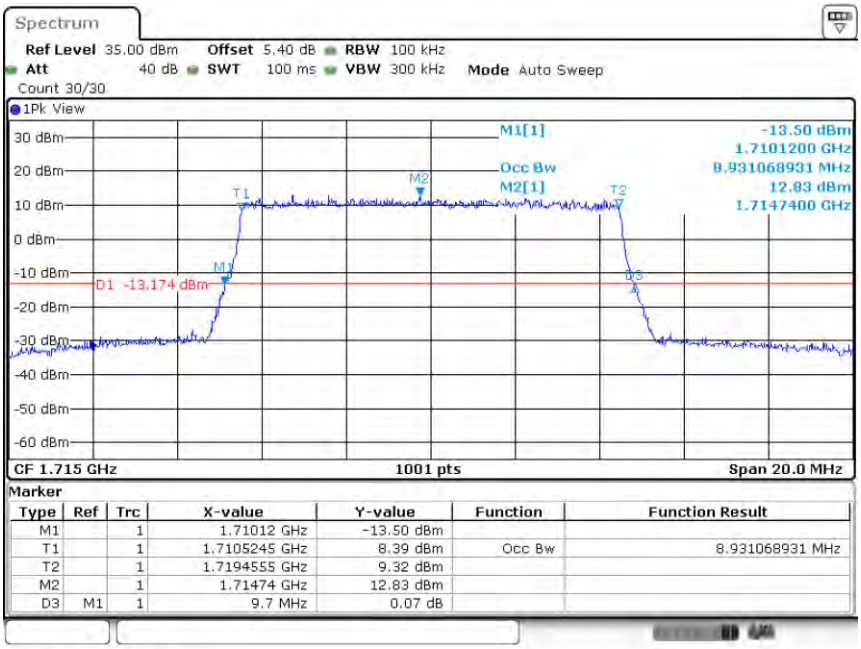
Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 22.OCT.2020 14:37:23

Band4-10MHz-64QAM-20000-50RB#0-8.931



Date: 22.OCT.2020 16:19:44

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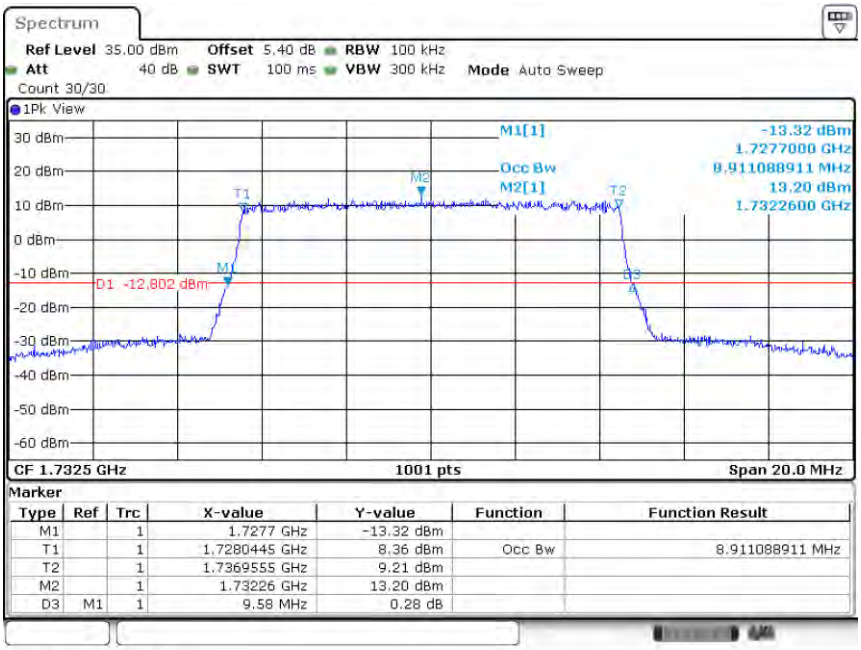
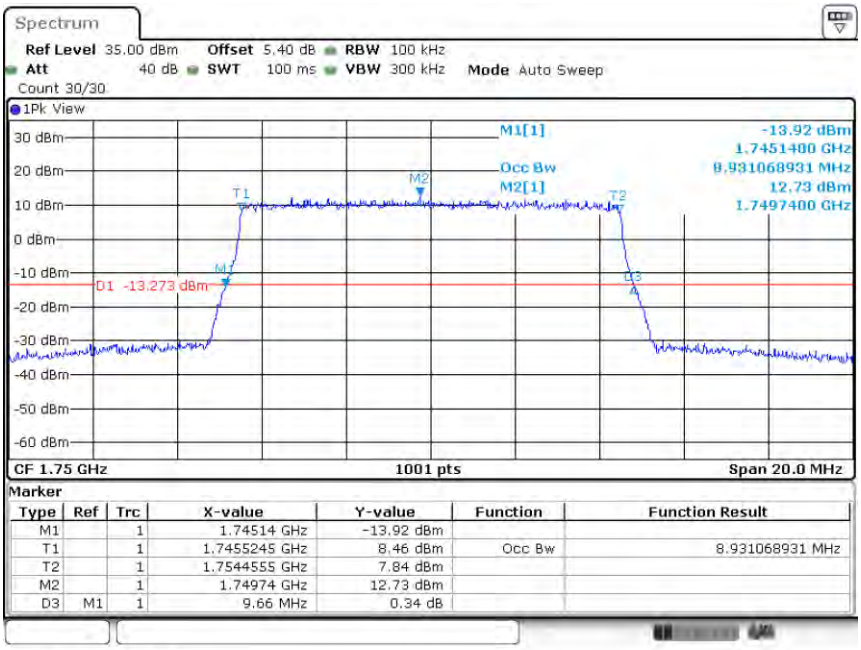
Band4-10MHz-64QAM-20175-50RB#0-8.911



Date: 22.OCT.2020 16:20:00

Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 22.OCT.2020 16:20:16

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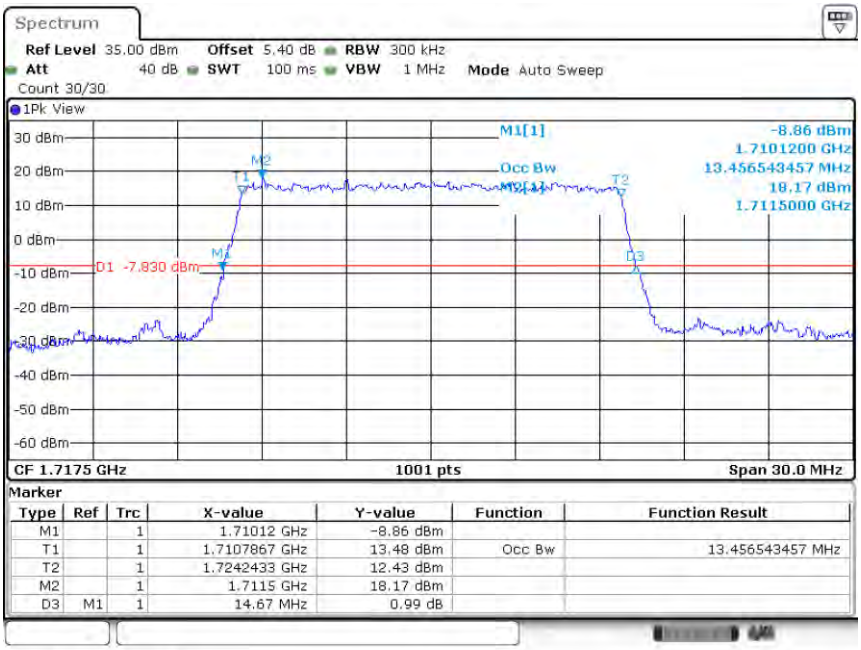
Band4-15MHz-QPSK-20025-75RB#0-13.457



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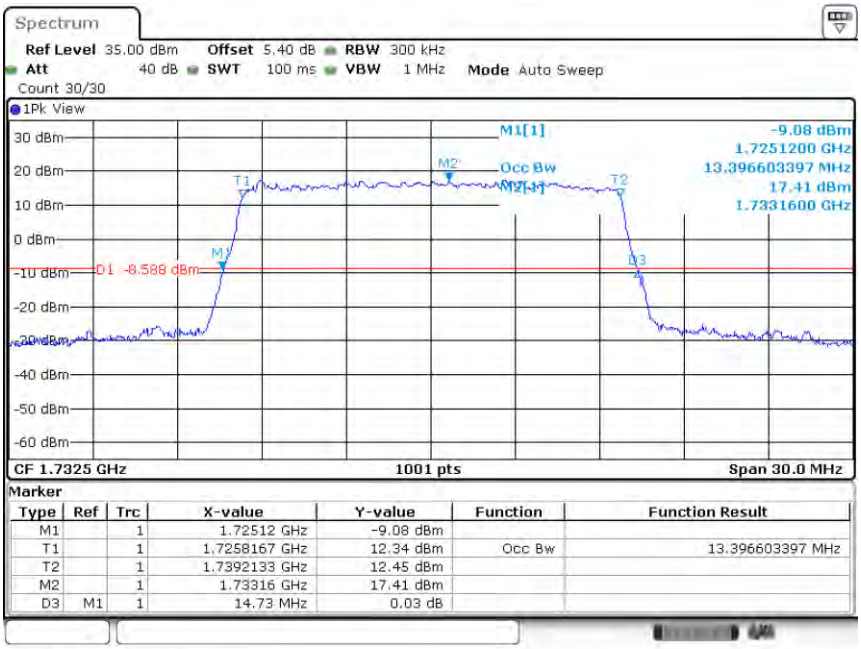
Band4-15MHz-QPSK-20175-75RB#0-13.397



Date: 22.OCT.2020 14:38:17

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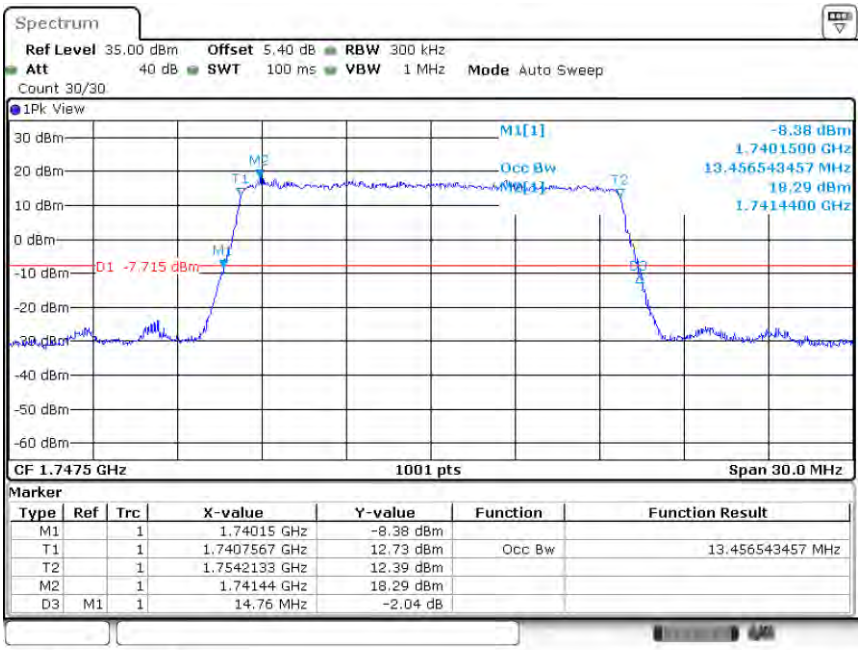
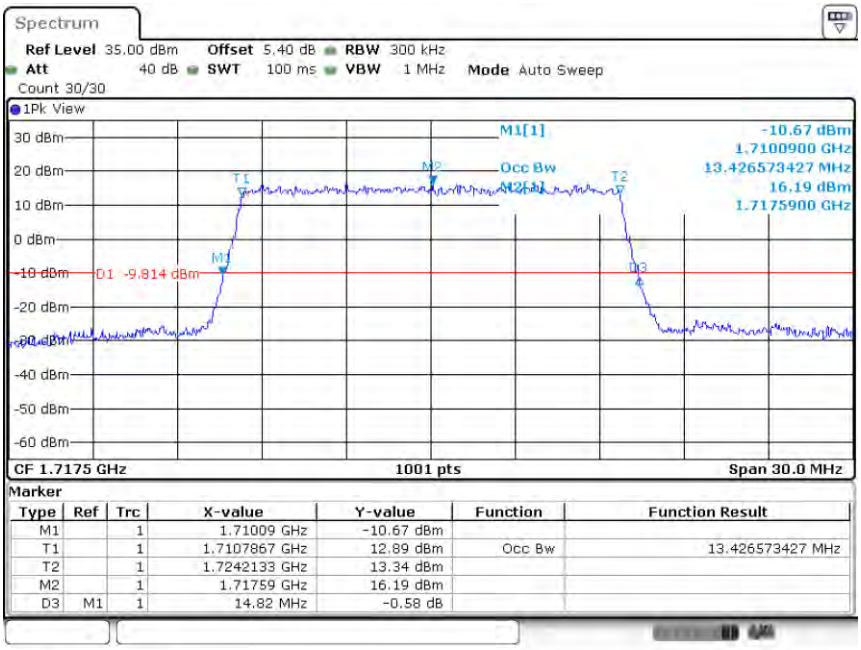
Band4-15MHz-QPSK-20325-75RB#0-13.457



Date: 22.OCT.2020 14:38:49

Band4-15MHz-16QAM-20025-75RB#0-13.427



Date: 22.OCT.2020 14:38:01

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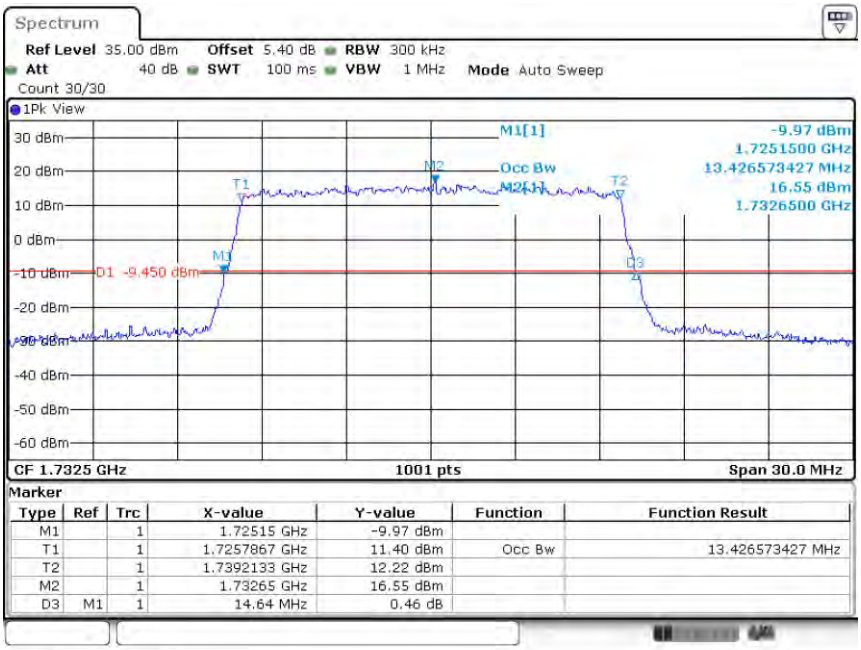

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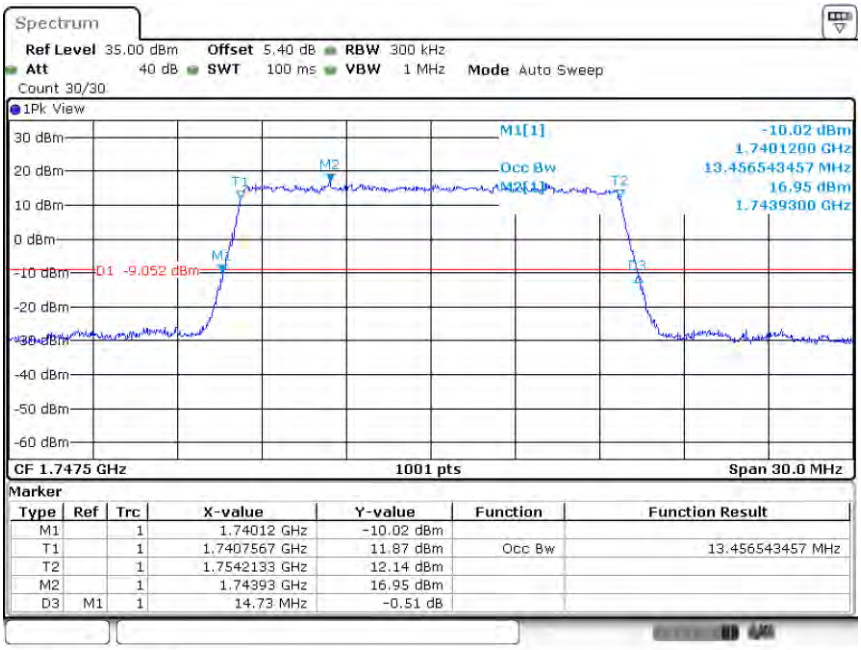

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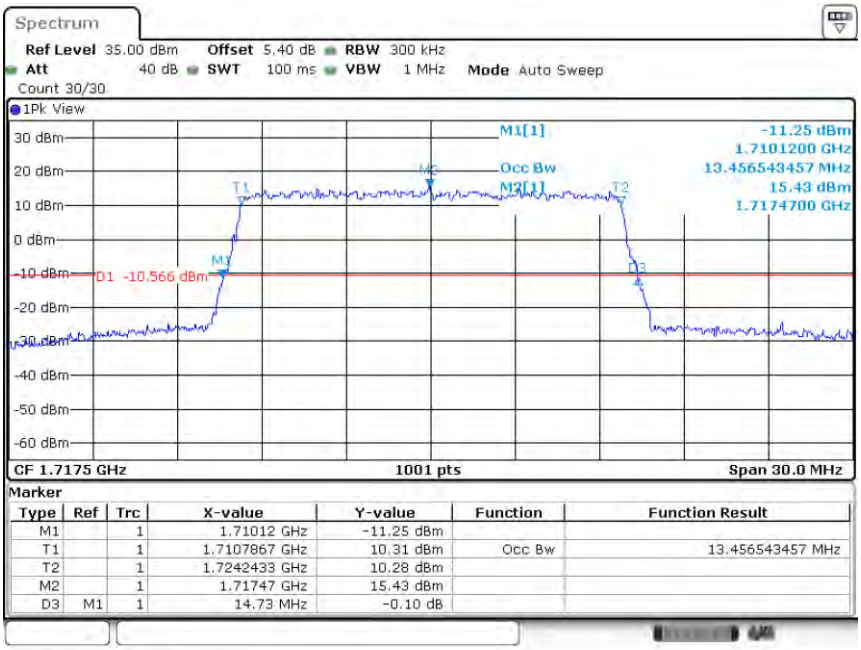

Date: 22.OCT.2020 16:22:51

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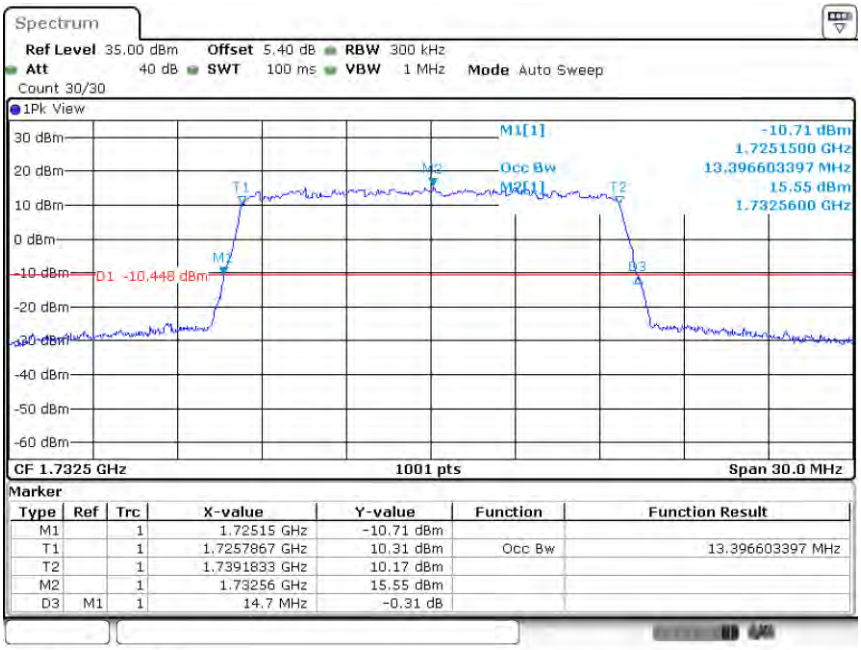

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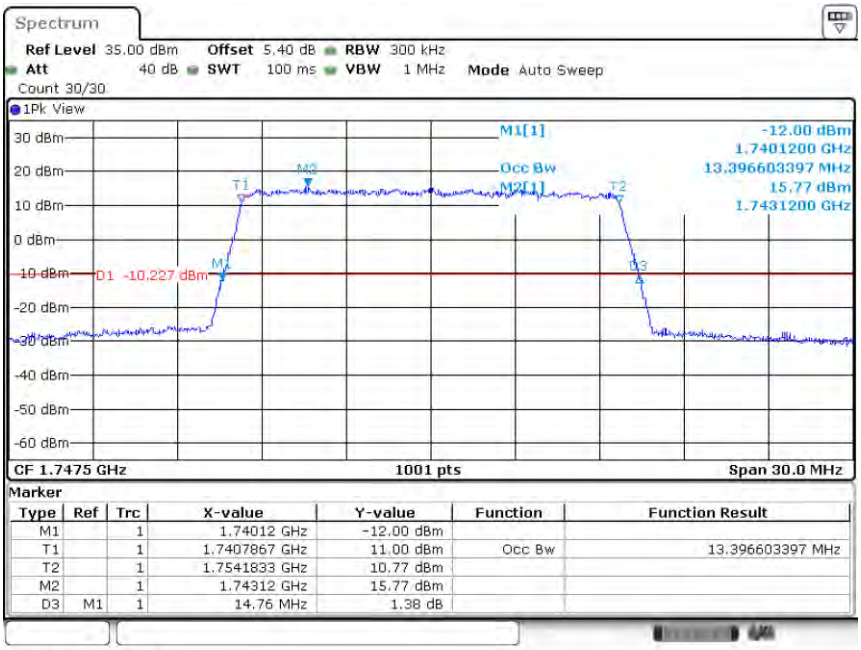
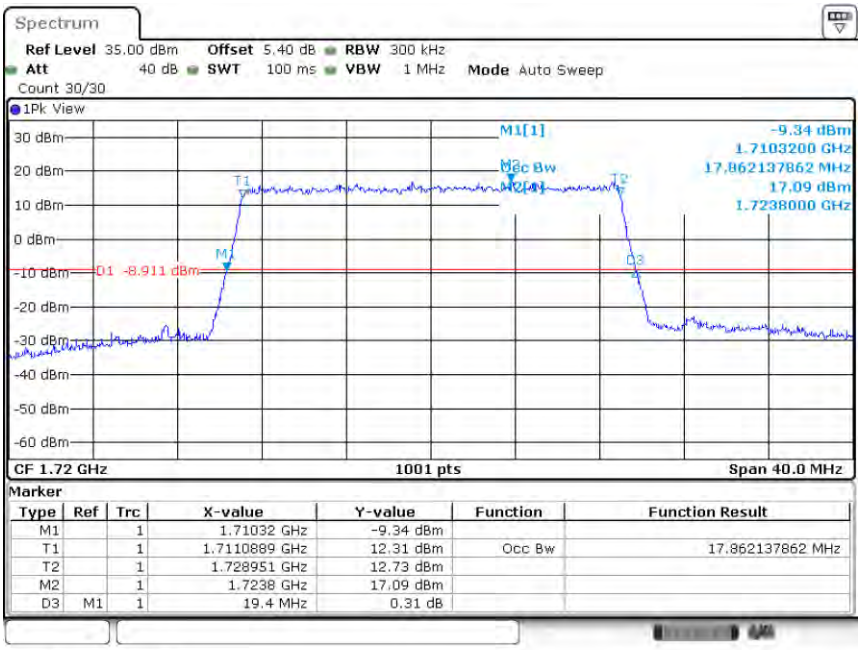
Band4-15MHz-64QAM-20325-75RB#0-13.397



Date: 22.OCT.2020 16:23:23

Band4-20MHz-QPSK-20050-100RB#0-17.862



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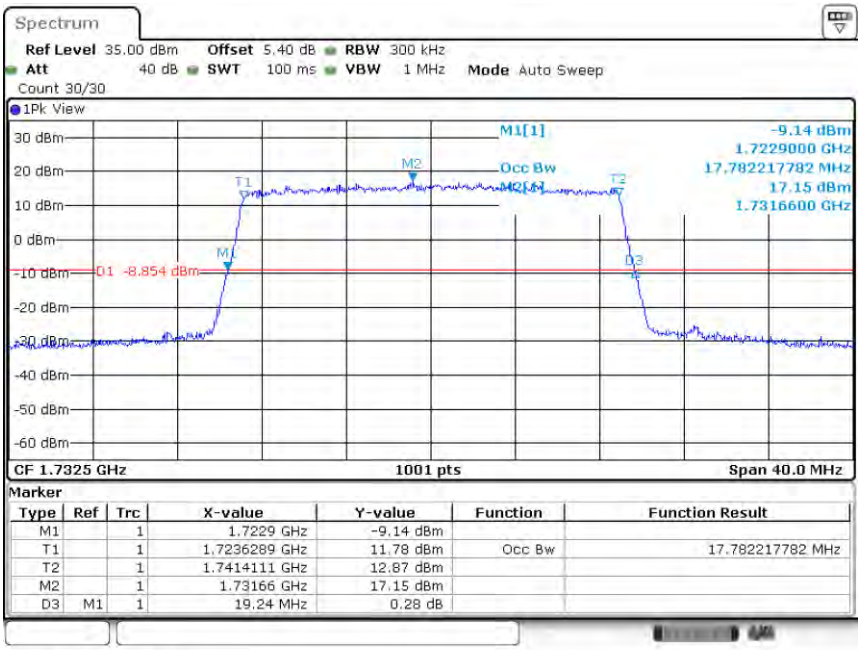
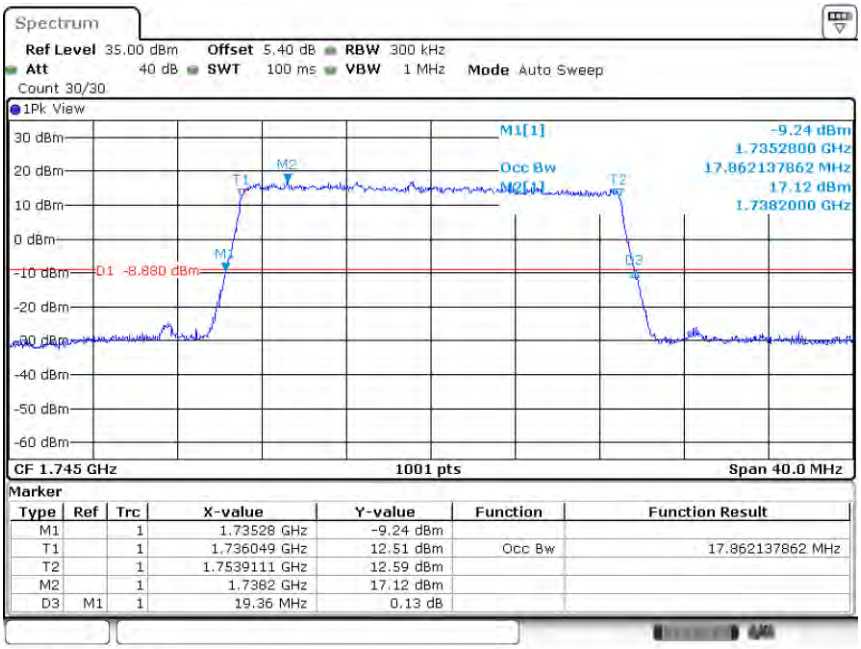
Band4-20MHz-QPSK-20175-100RB#0-17.782



Date: 22.OCT.2020 14:40:00

Band4-20MHz-QPSK-20300-100RB#0-17.862



Date: 22.OCT.2020 14:40:31

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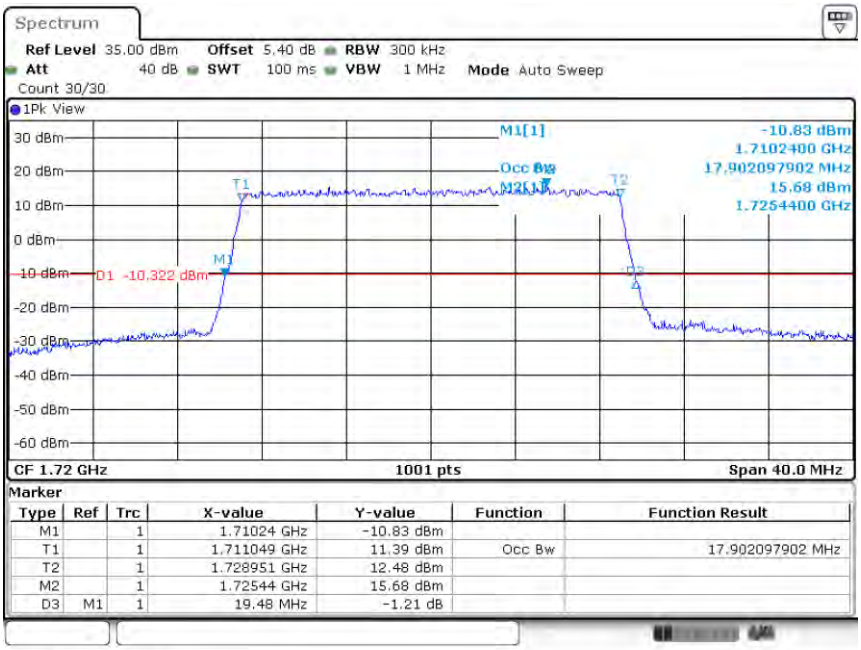
Band4-20MHz-16QAM-20050-100RB#0-17.902

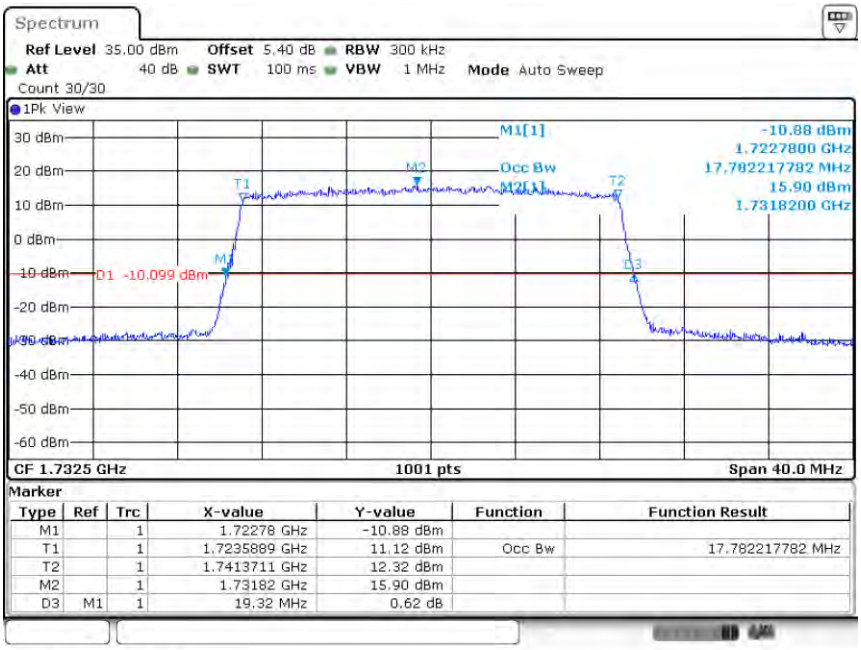


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.71024 GHz	-10.83 dBm		
T1		1	1.711049 GHz	11.39 dBm	Occ Bw	17.902097902 MHz
T2		1	1.728951 GHz	12.48 dBm		
M2		1	1.72544 GHz	15.68 dBm		
D3	M1	1	19.48 MHz	-1.21 dB		

Date: 22.OCT.2020 14:39:44

Band4-20MHz-16QAM-20175-100RB#0-17.782



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.72278 GHz	-10.88 dBm		
T1		1	1.7235889 GHz	11.12 dBm	Occ Bw	17.782217782 MHz
T2		1	1.7413711 GHz	12.32 dBm		
M2		1	1.73182 GHz	15.90 dBm		
D3	M1	1	19.32 MHz	0.62 dB		

Date: 22.OCT.2020 14:40:15

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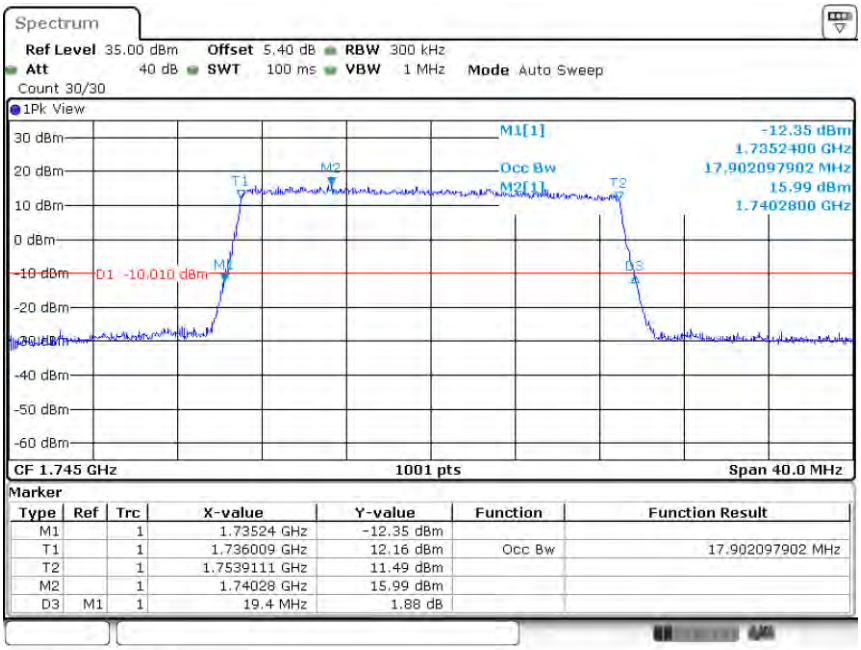
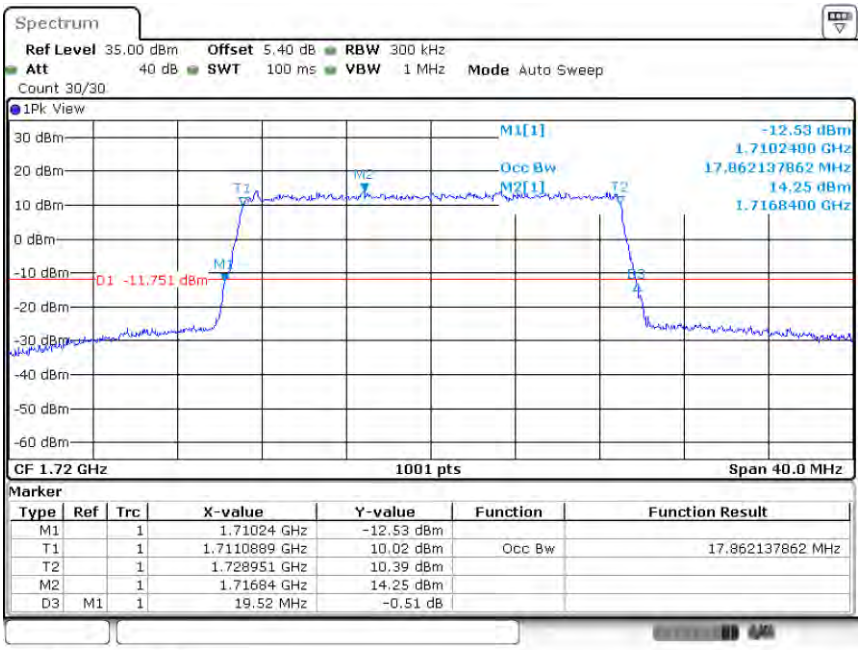
Band4-20MHz-16QAM-20300-100RB#0-17.902



Date: 22.OCT.2020 14:40:47

Band4-20MHz-64QAM-20050-100RB#0-17.862



Date: 22.OCT.2020 16:35:48

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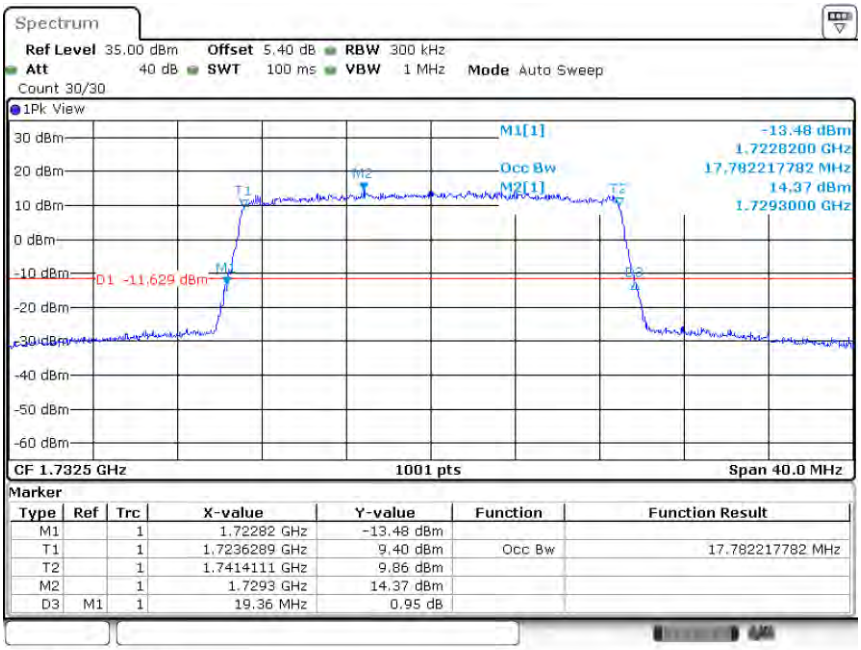
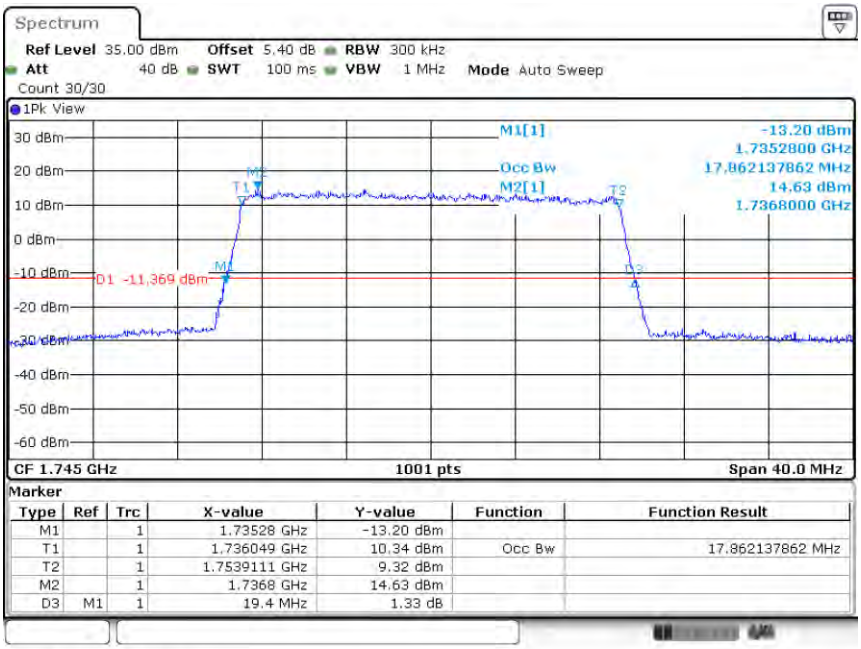
Band4-20MHz-64QAM-20175-100RB#0-17.782



Date: 22.OCT.2020 16:36:04

Band4-20MHz-64QAM-20300-100RB#0-17.862



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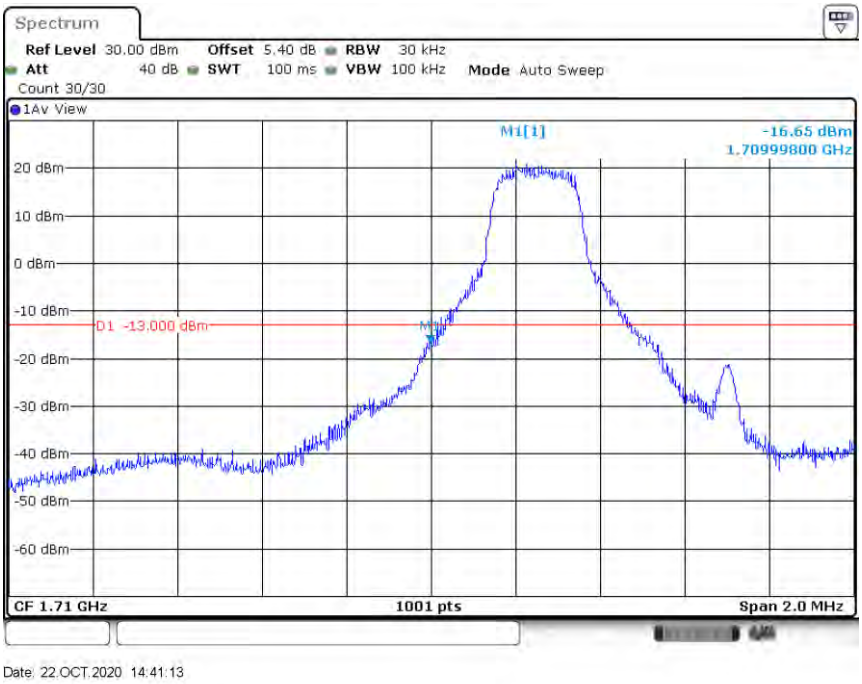
5 Band Edge Compliance

5.1 Test Plots

Band4-1.4MHz-QPSK-19957-1RB#0



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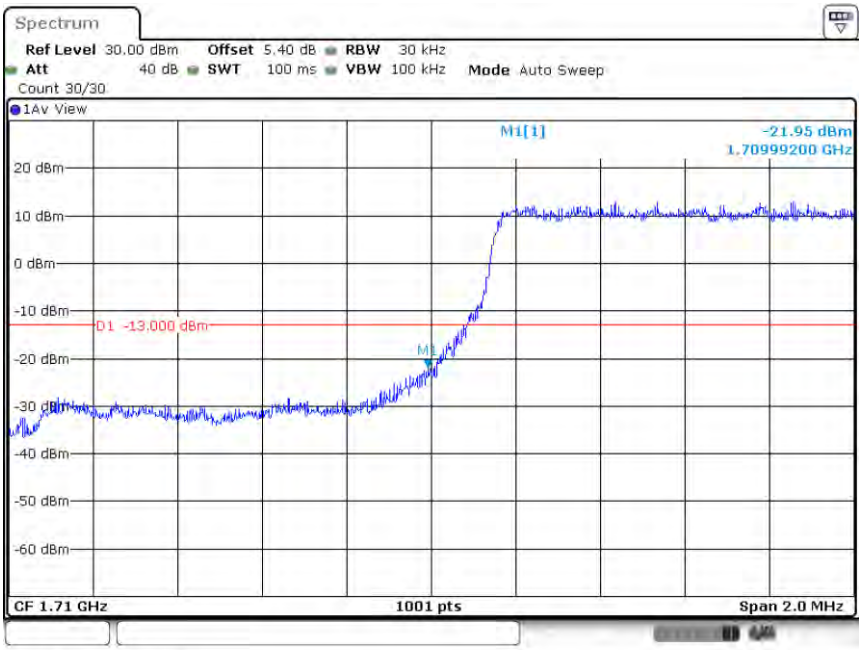
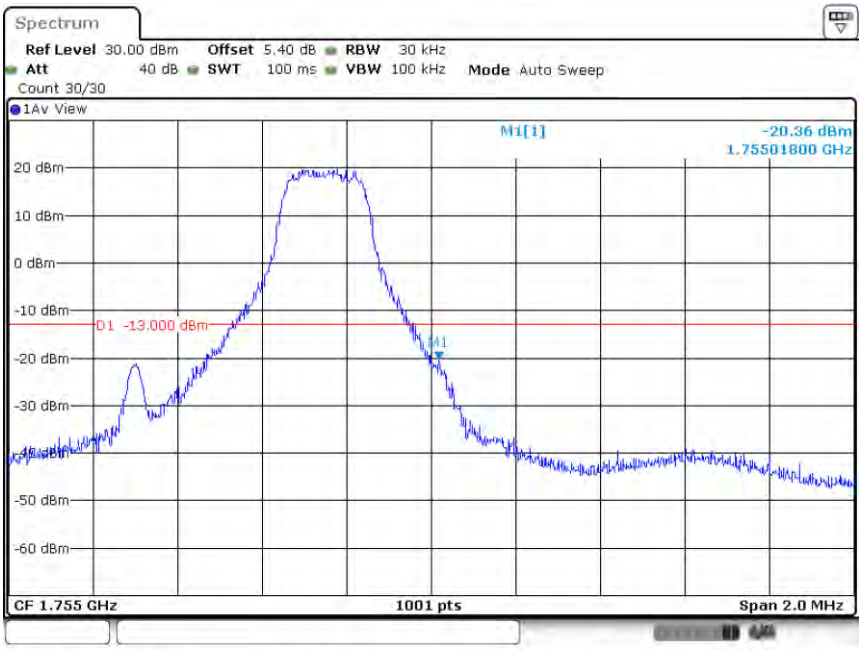
Band4-1.4MHz-QPSK-19957-6RB#0



Date: 22.OCT.2020 14:41:47

Band4-1.4MHz-QPSK-20393-1RB#5



Date: 22.OCT.2020 14:42:28

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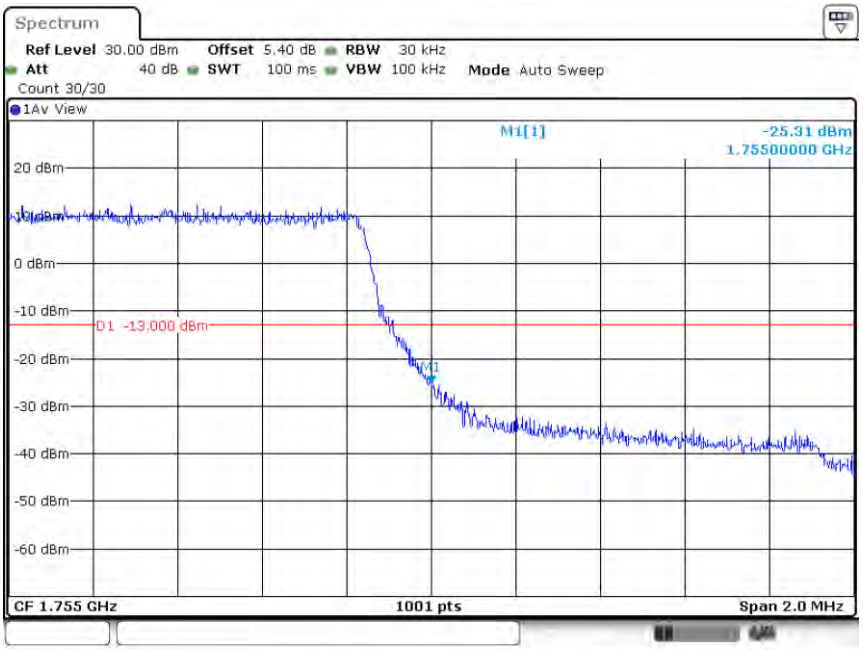
Band4-1.4MHz-QPSK-20393-6RB#0



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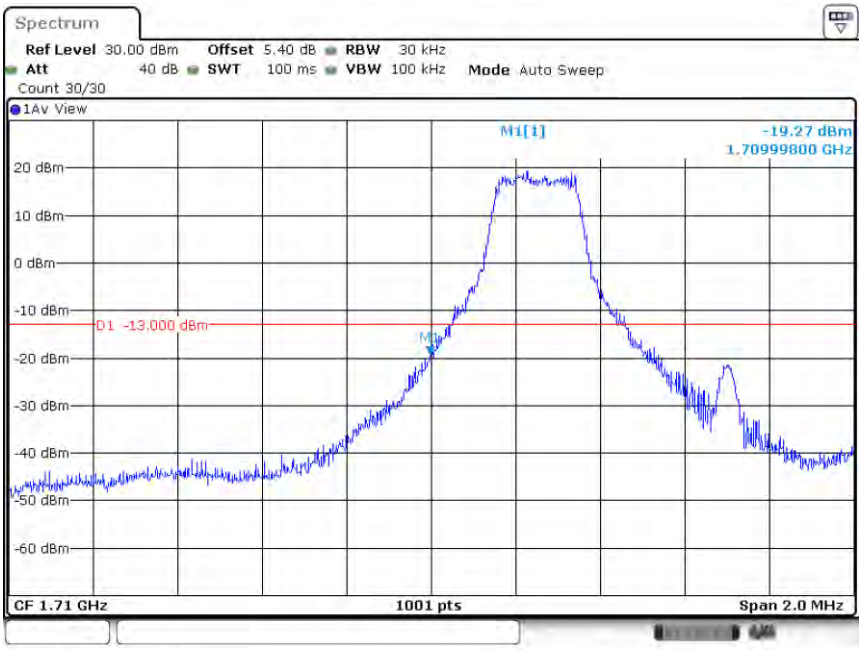
Band4-1.4MHz-16QAM-19957-1RB#0



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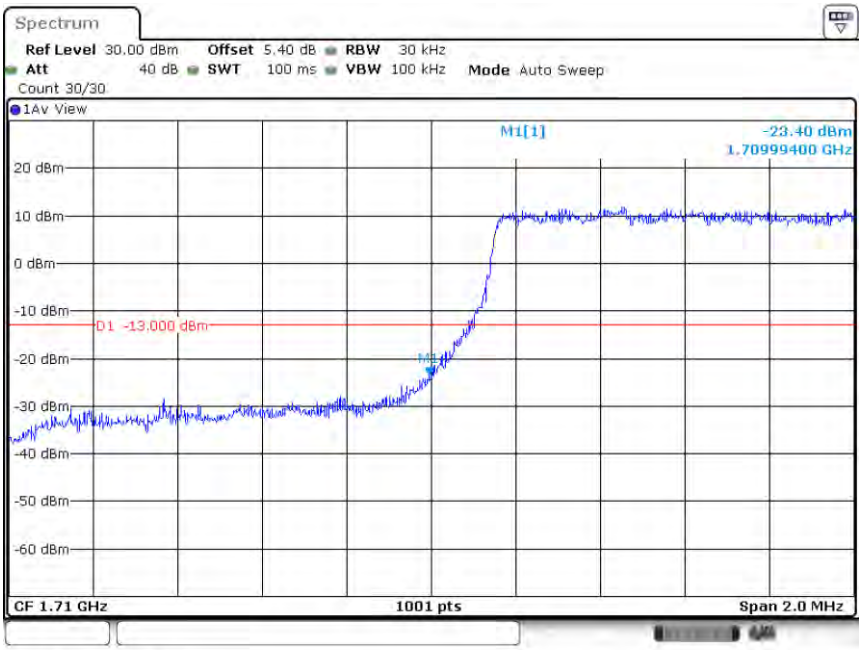
Band4-1.4MHz-16QAM-19957-6RB#0



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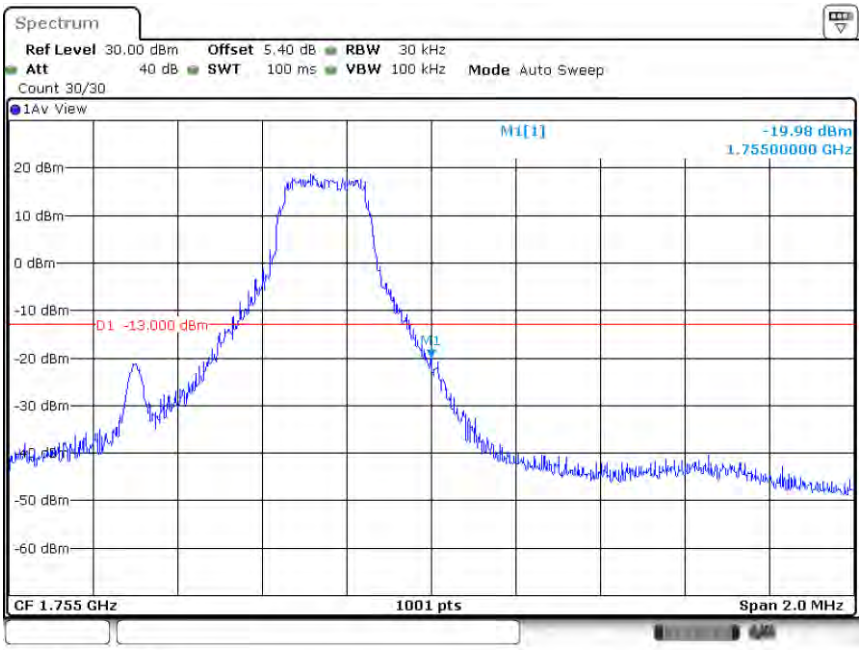
Band4-1.4MHz-16QAM-20393-1RB#5



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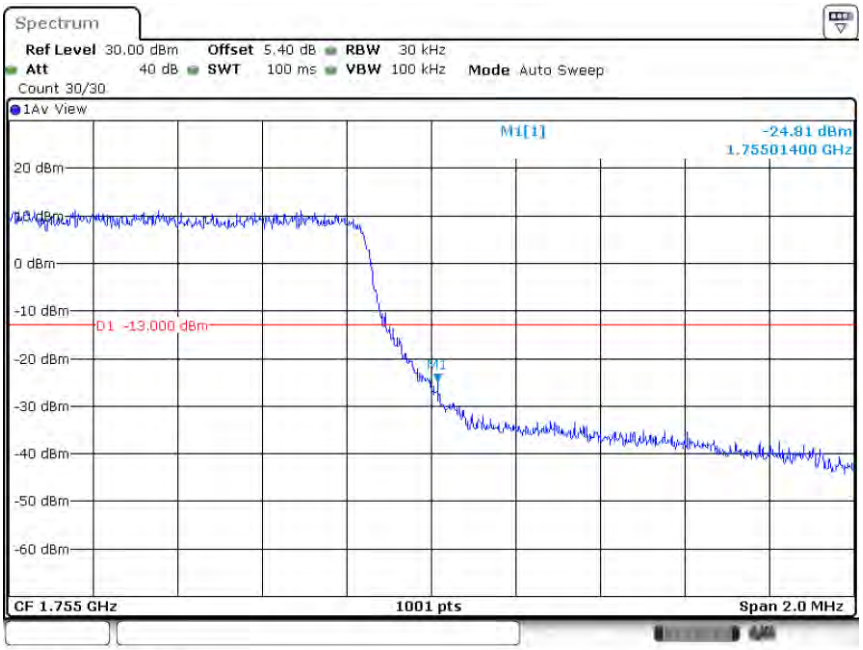

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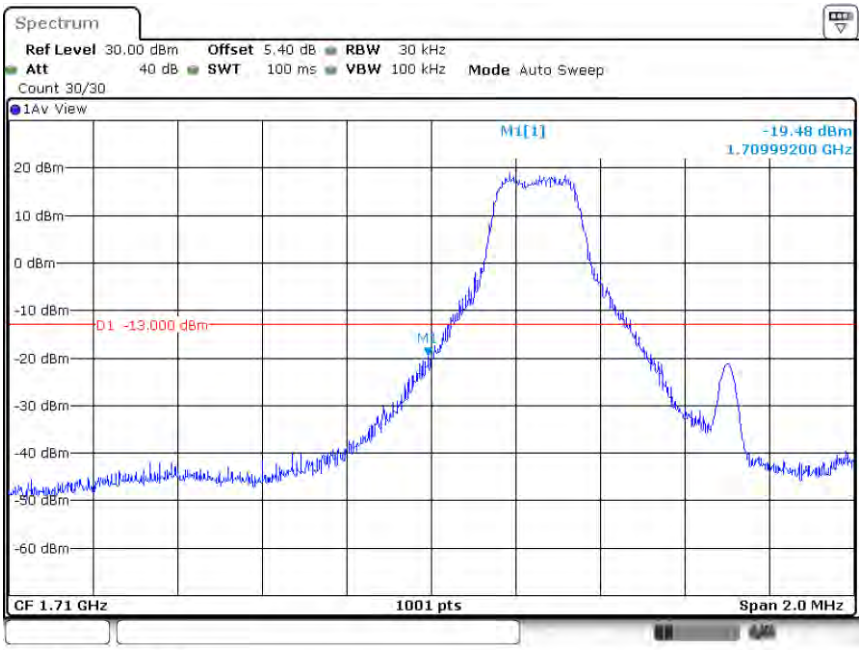

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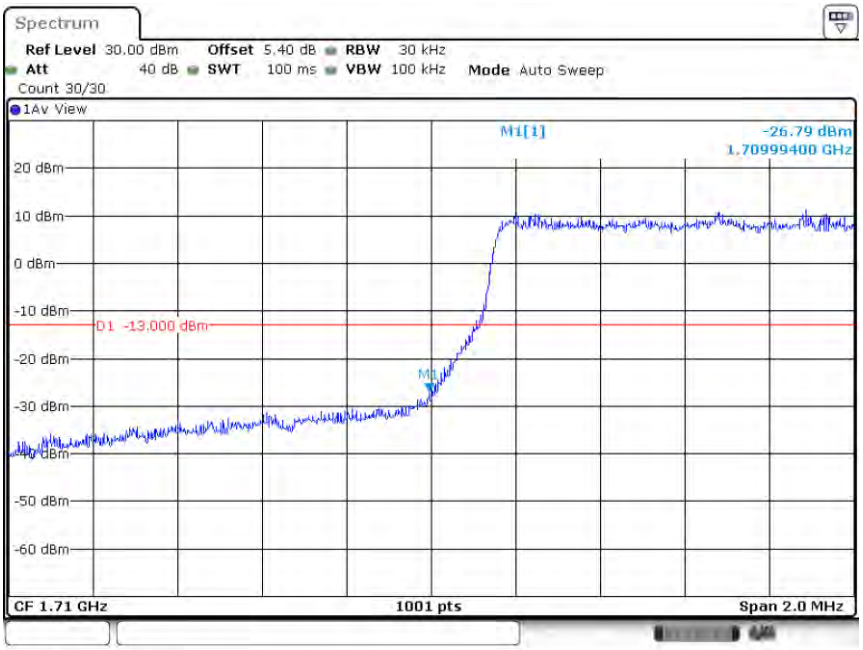
Band4-1.4MHz-64QAM-19957-6RB#0



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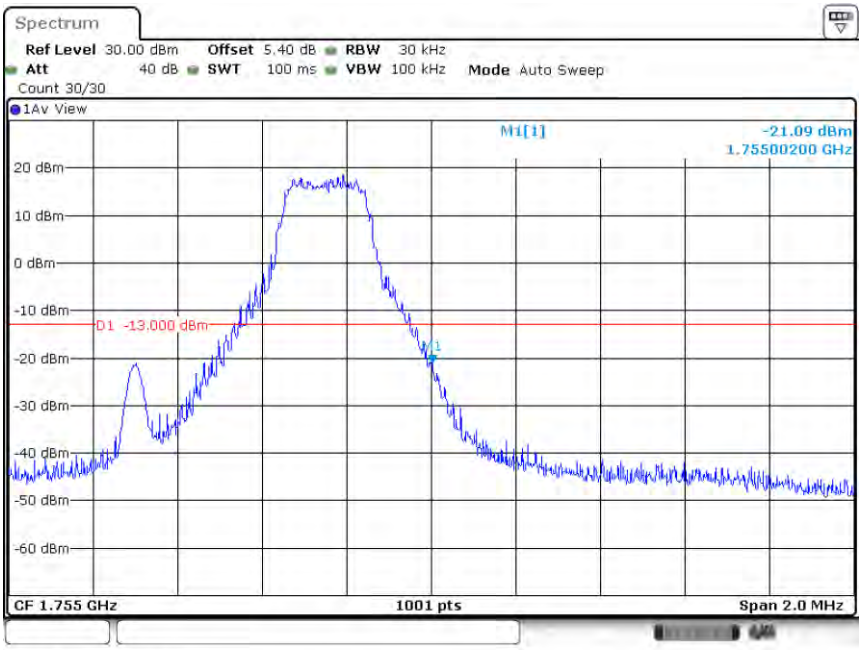
Band4-1.4MHz-64QAM-20393-1RB#5



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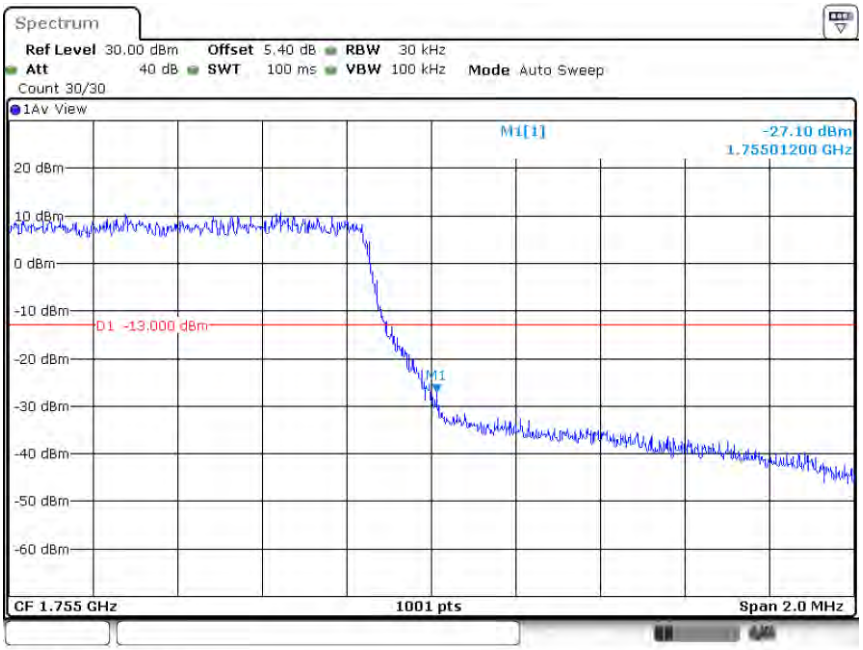
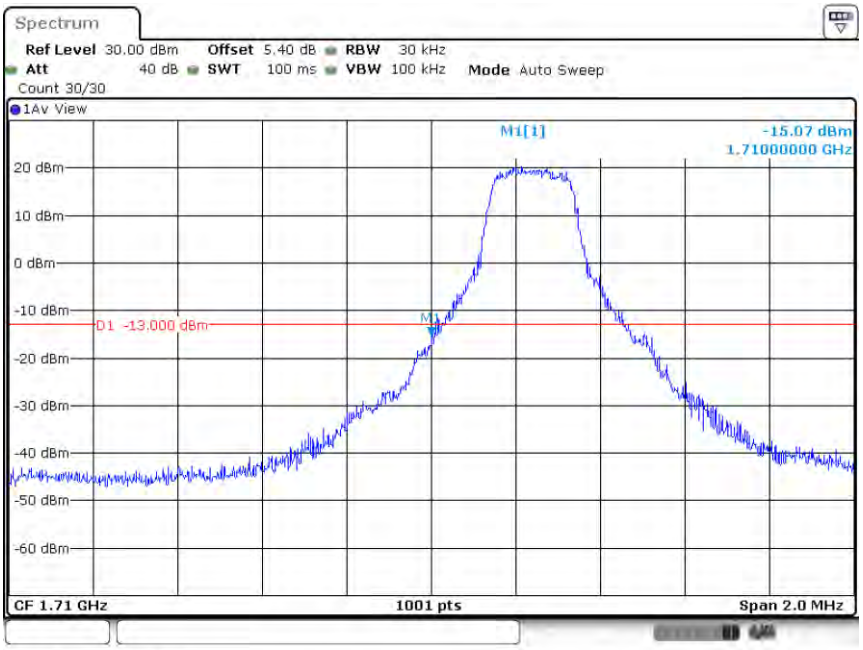


Date: 22.OCT.2020 16:37:44

Band4-3MHz-QPSK-19965-1RB#0



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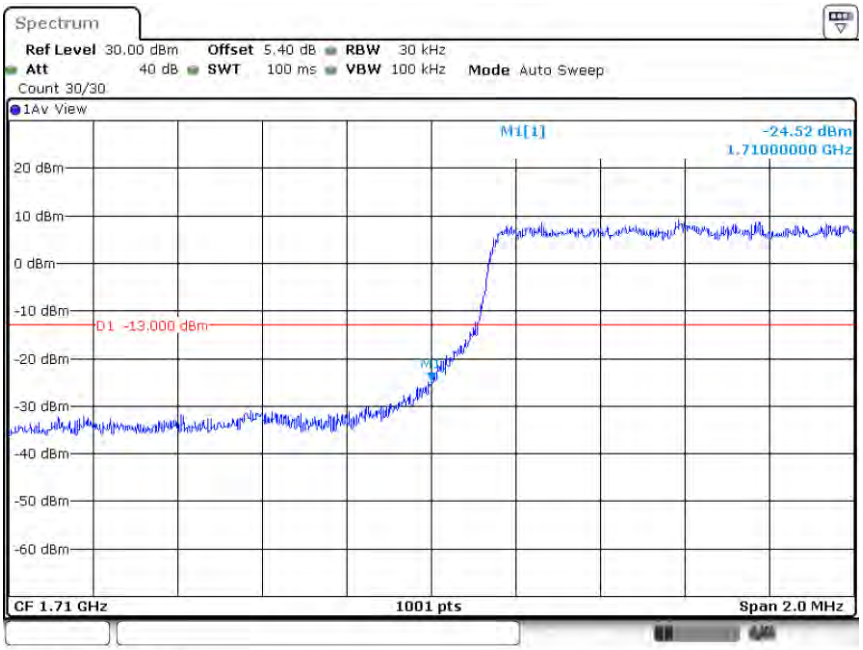
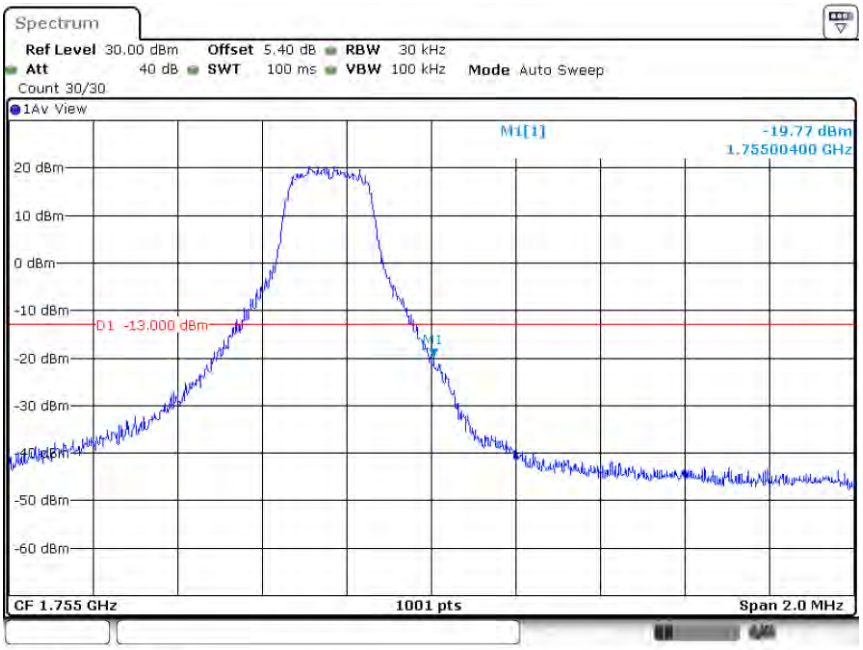
Band4-3MHz-QPSK-19965-15RB#0



Date: 22.OCT.2020 14:44:17

Band4-3MHz-QPSK-20385-1RB#14



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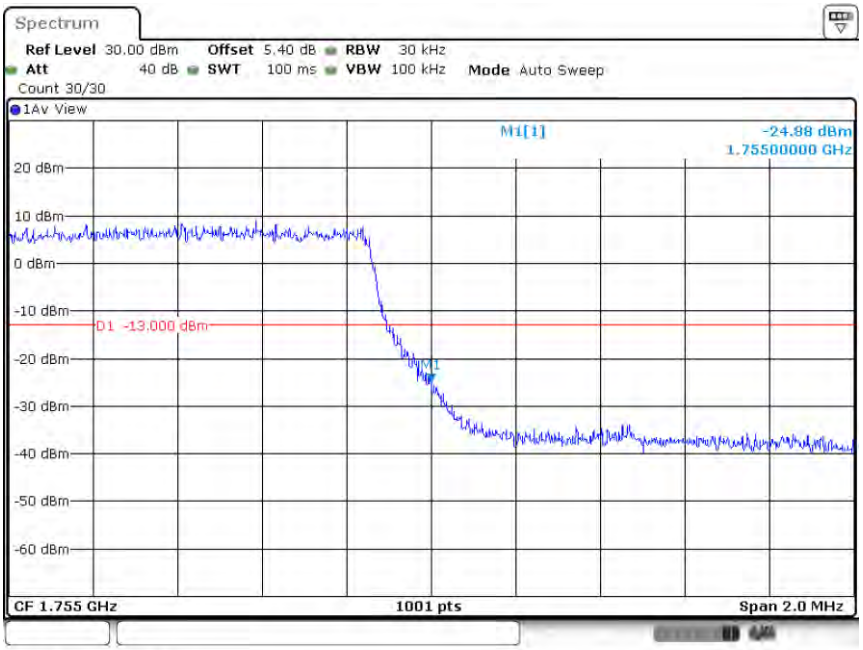
Band4-3MHz-QPSK-20385-15RB#0



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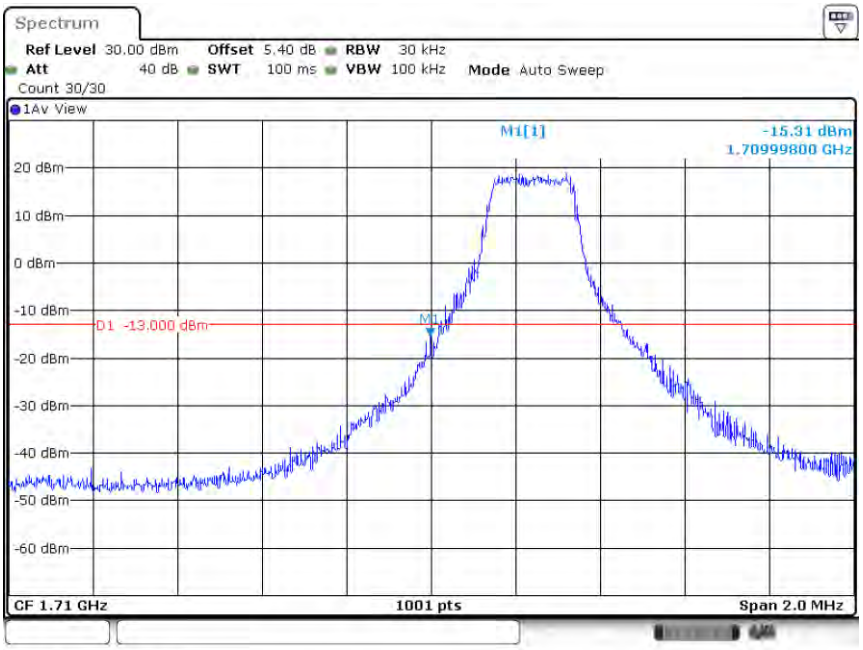
Band4-3MHz-16QAM-19965-1RB#0



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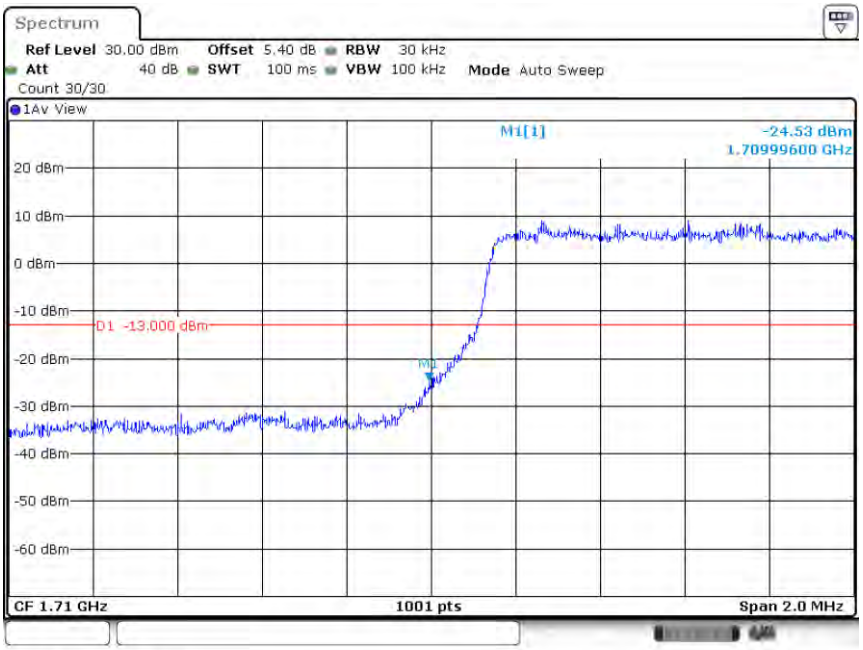
Band4-3MHz-16QAM-19965-15RB#0



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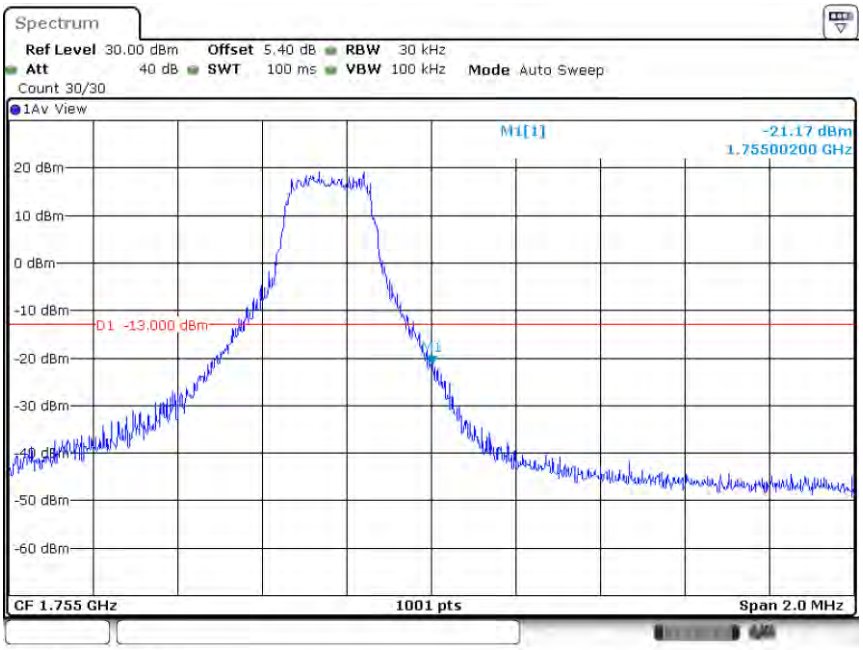

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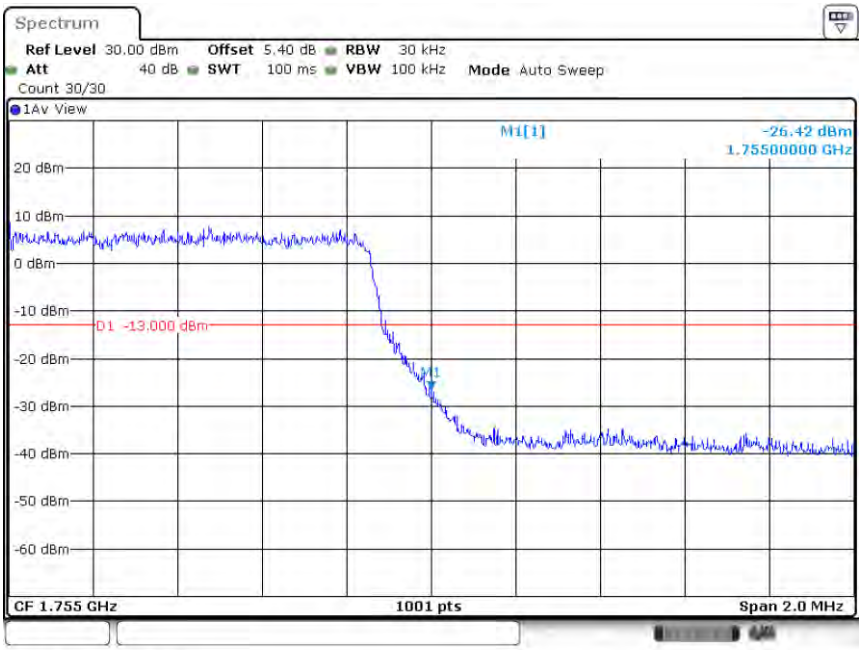
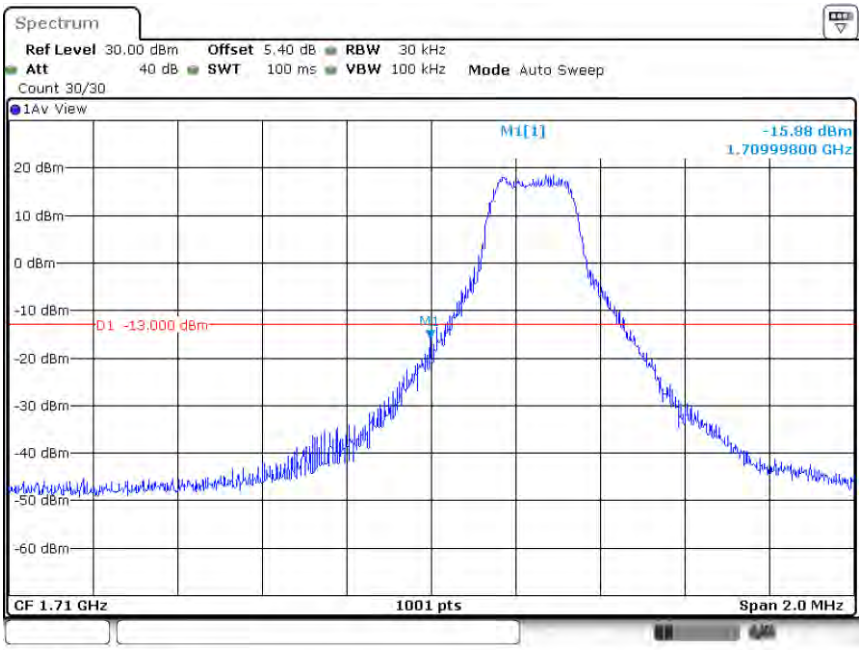


Date: 22.OCT.2020 14:45:47

Band4-3MHz-64QAM-19965-1RB#0



Date: 22.OCT.2020 16:38:11

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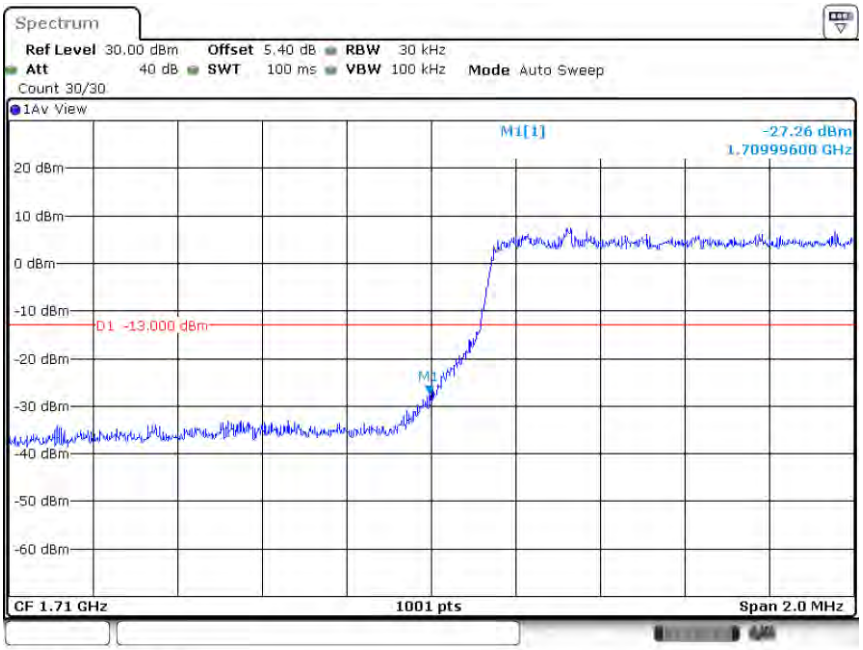

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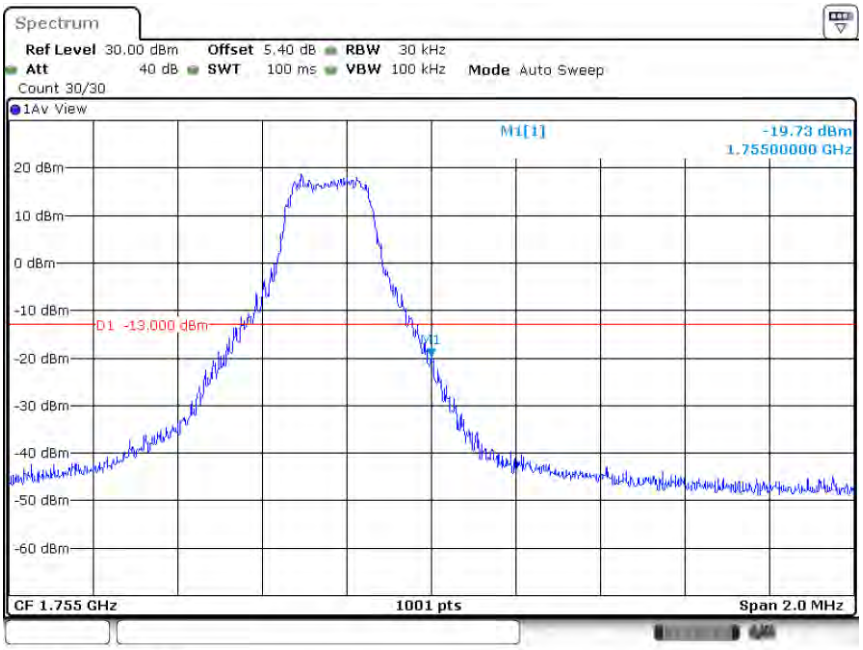
Band4-3MHz-64QAM-20385-1RB#14



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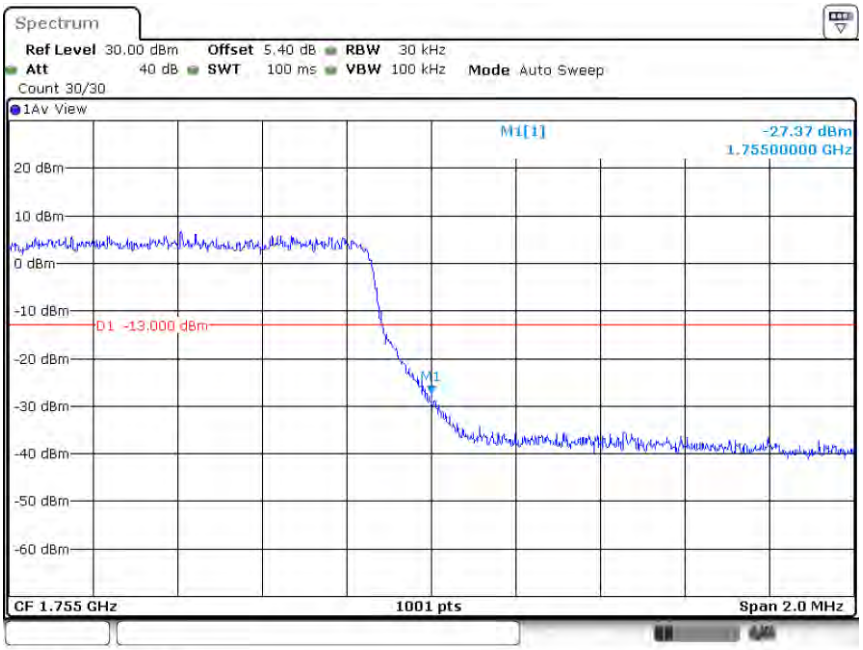
Band4-3MHz-64QAM-20385-15RB#0



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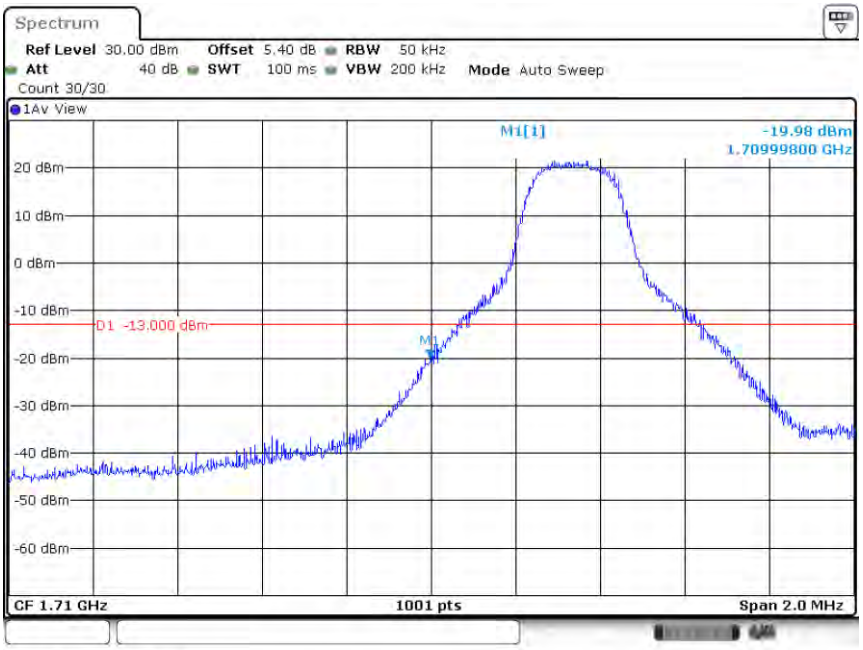
Band4-5MHz-QPSK-19975-1RB#0



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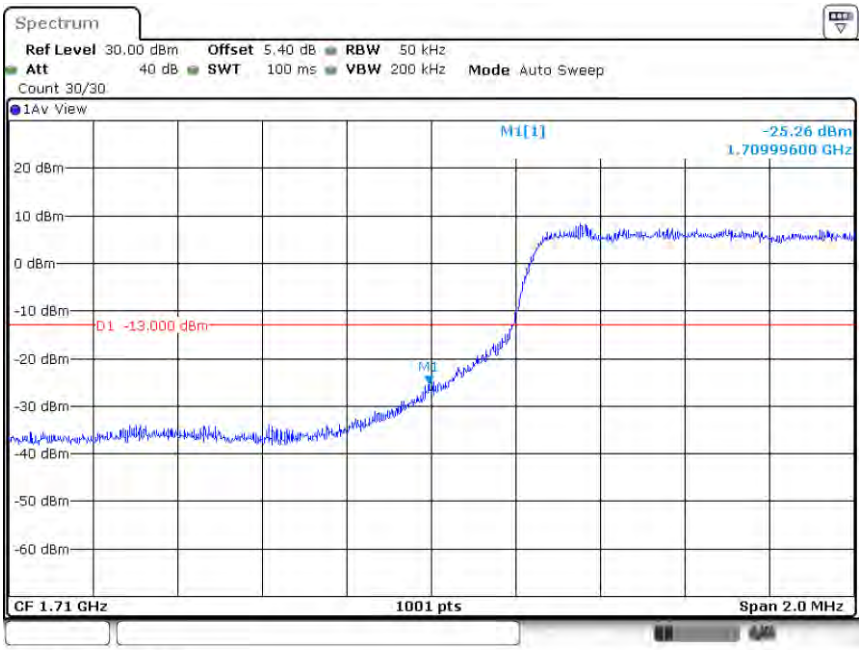
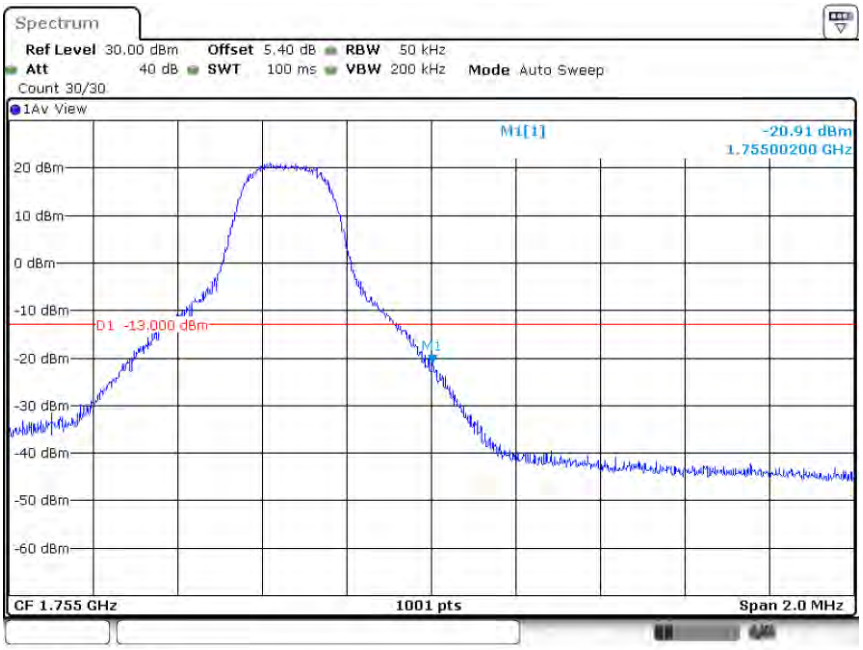


Date: 22.OCT.2020 14:46:52

Band4-5MHz-QPSK-20375-1RB#24



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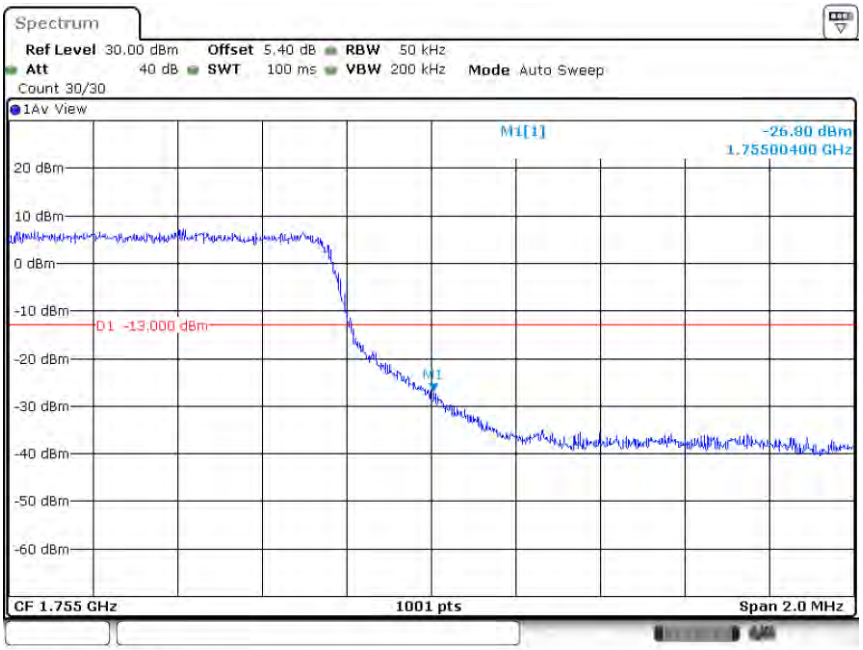

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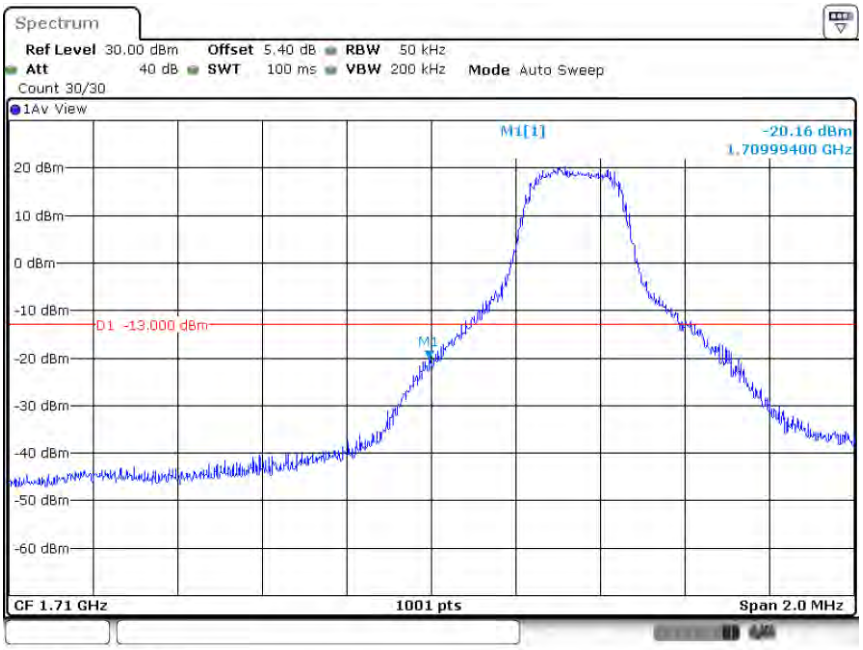

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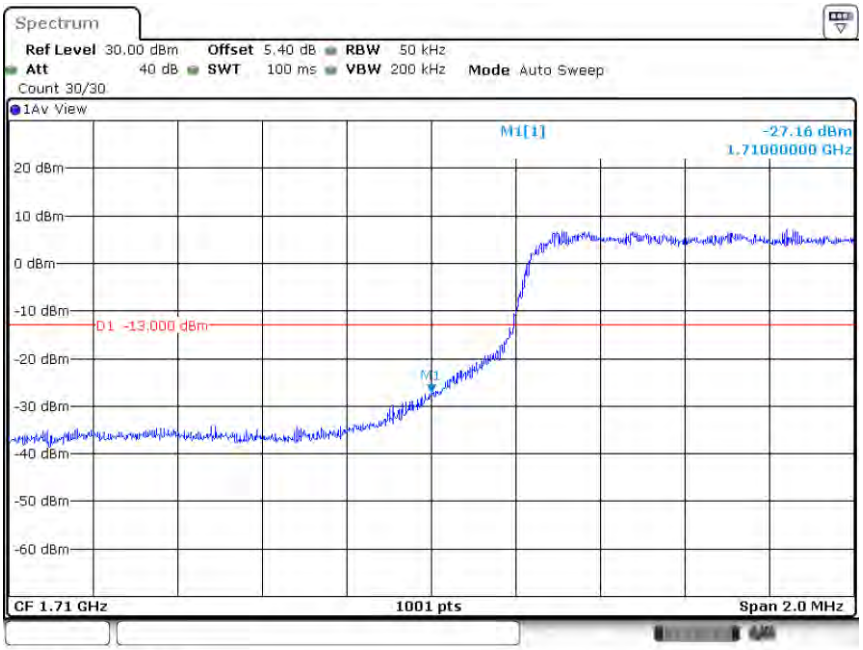

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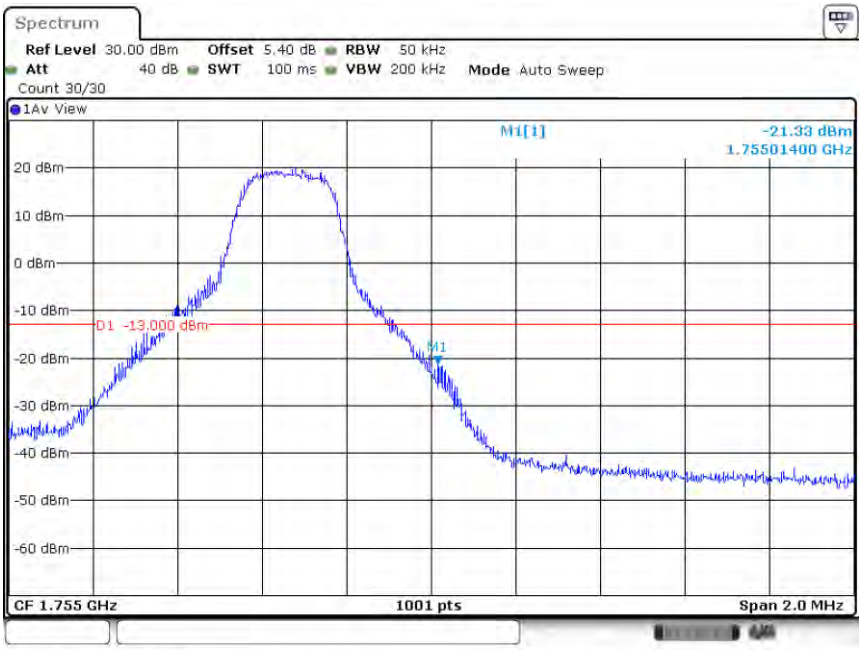
Band4-5MHz-16QAM-20375-1RB#24



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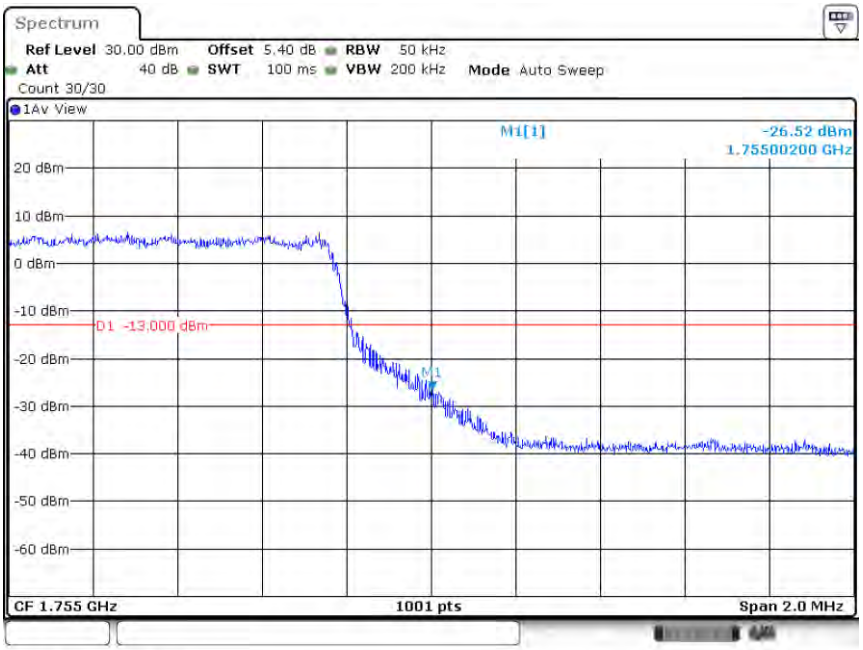

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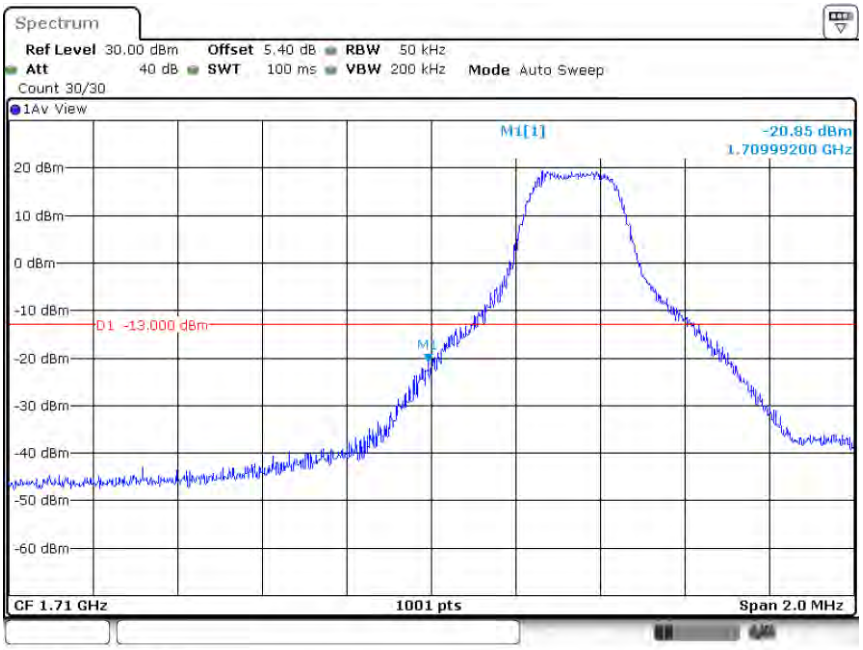

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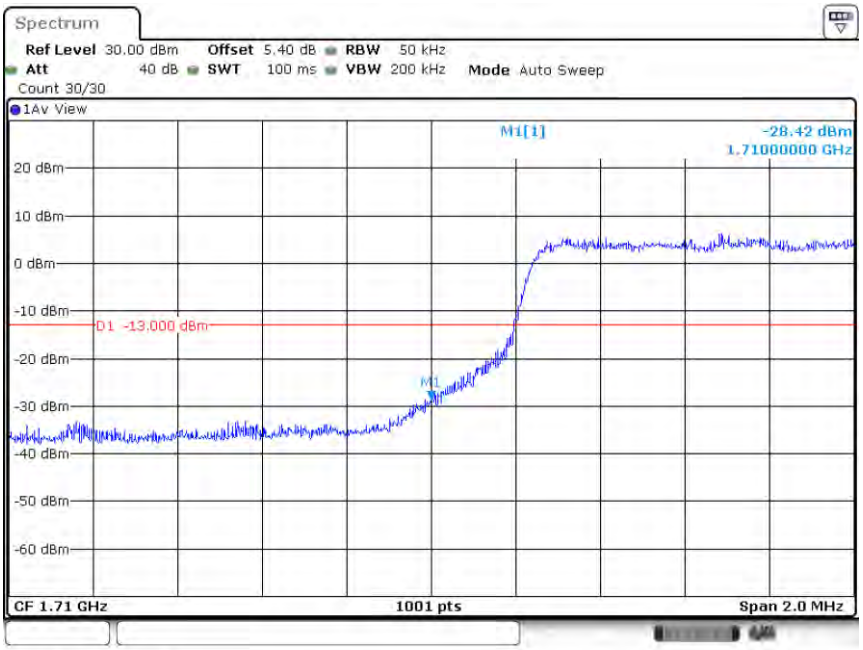

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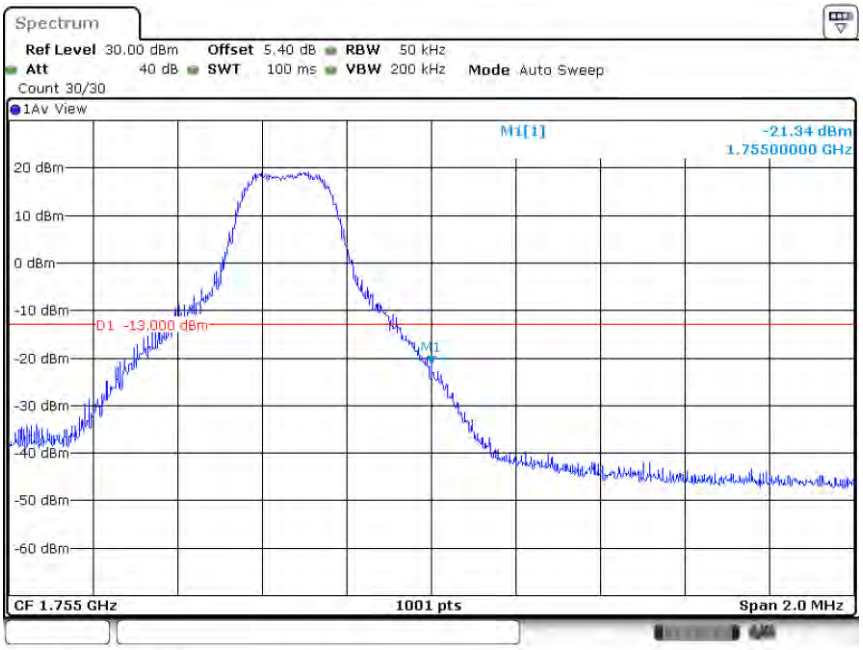
Band4-5MHz-64QAM-20375-1RB#24



Date: 22.OCT.2020 16:40:17

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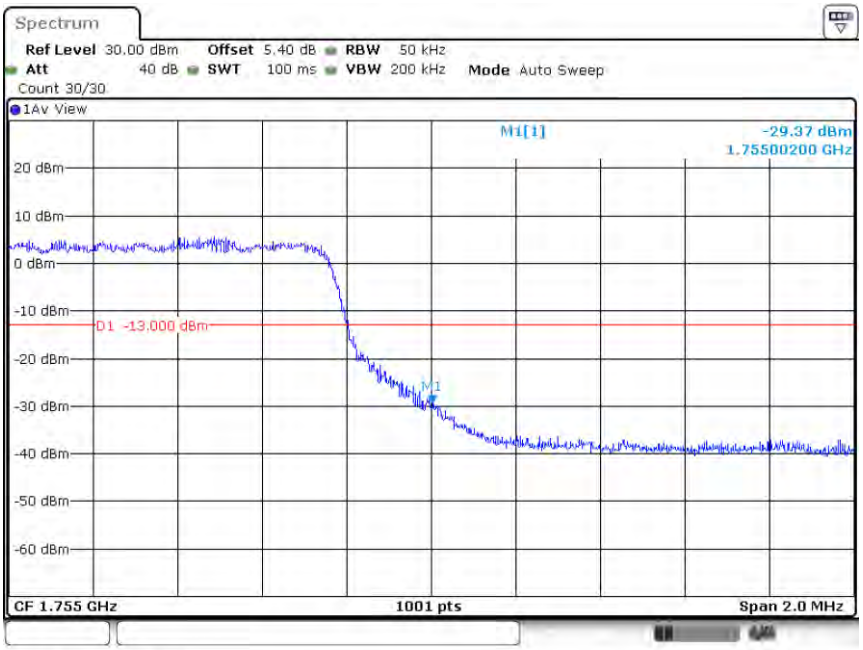
Band4-5MHz-64QAM-20375-25RB#0



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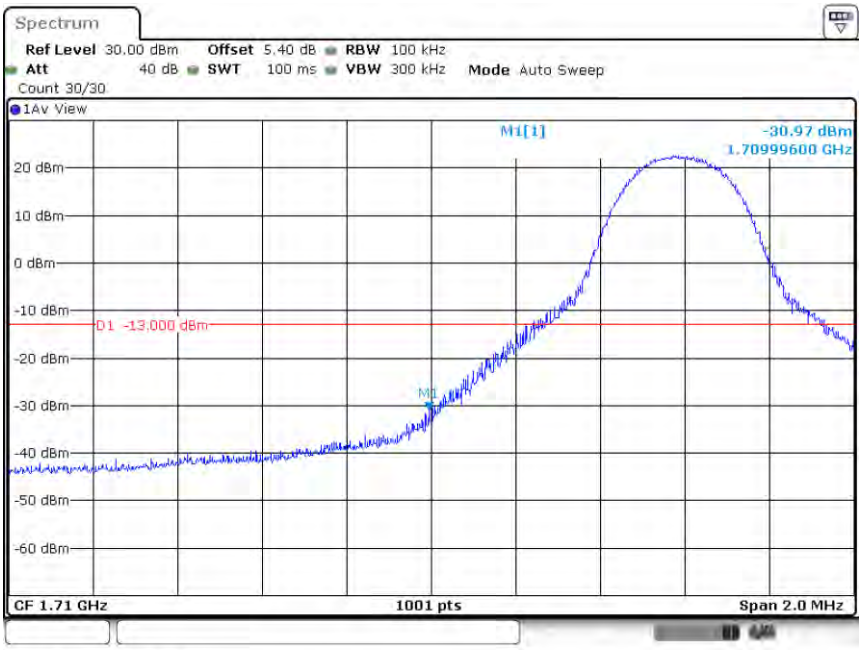
Band4-10MHz-QPSK-20000-1RB#0



Date: 22.OCT.2020 14:48:49

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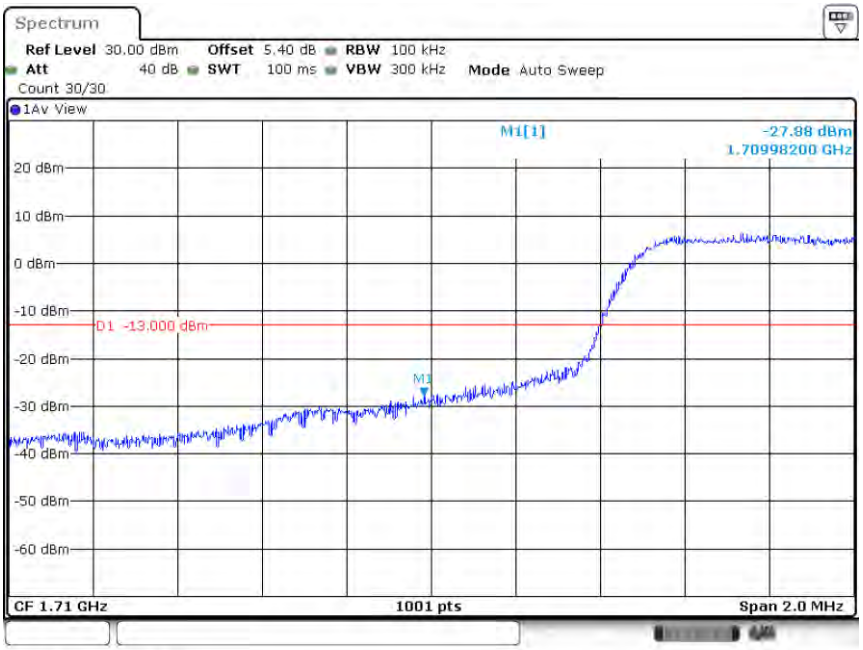
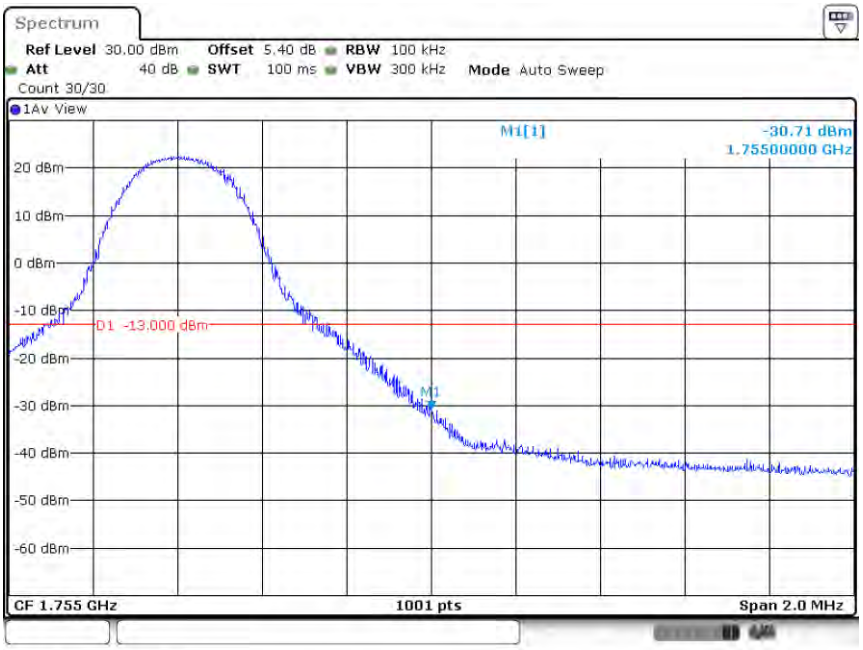
Band4-10MHz-QPSK-20000-50RB#0



Date: 22.OCT.2020 14:49:22

Band4-10MHz-QPSK-20350-1RB#49



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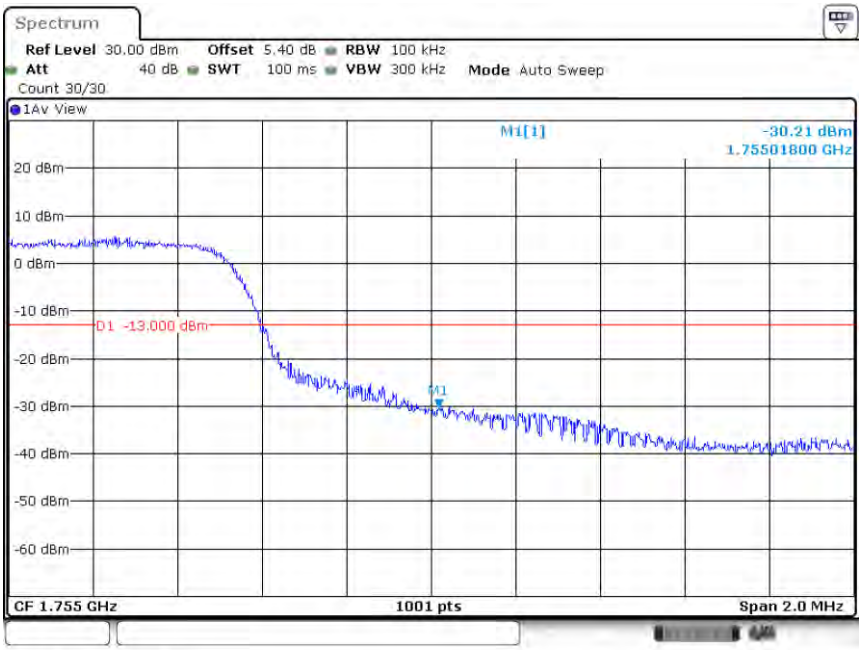
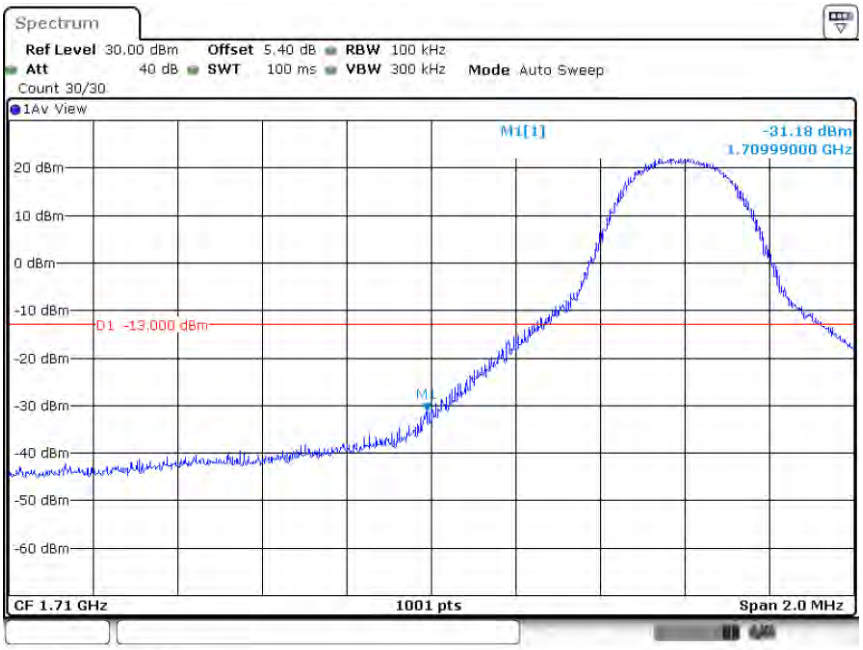
Band4-10MHz-QPSK-20350-50RB#0



Date: 22.OCT.2020 14:50:37

Band4-10MHz-16QAM-20000-1RB#0



Date: 22.OCT.2020 14:49:06

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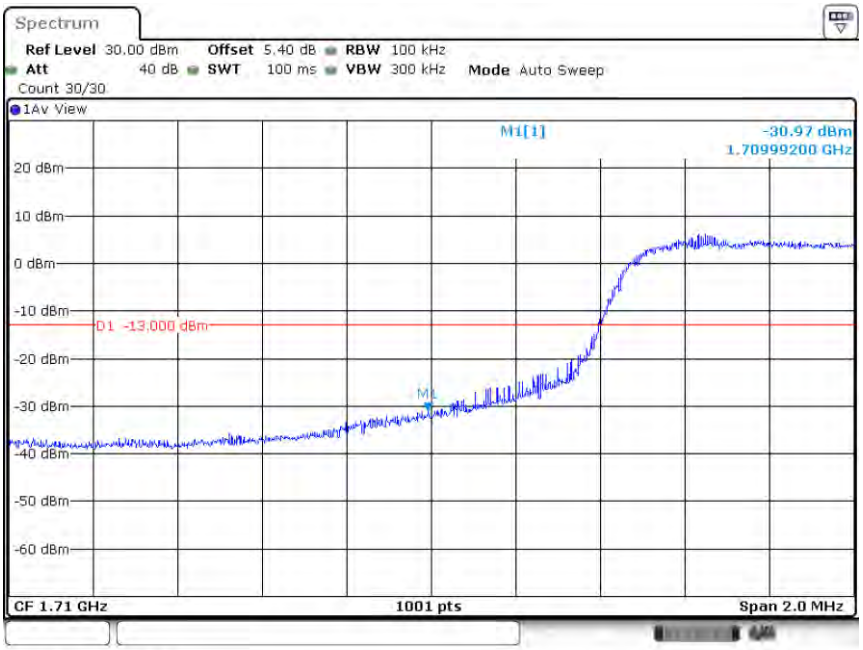
Band4-10MHz-16QAM-20000-50RB#0



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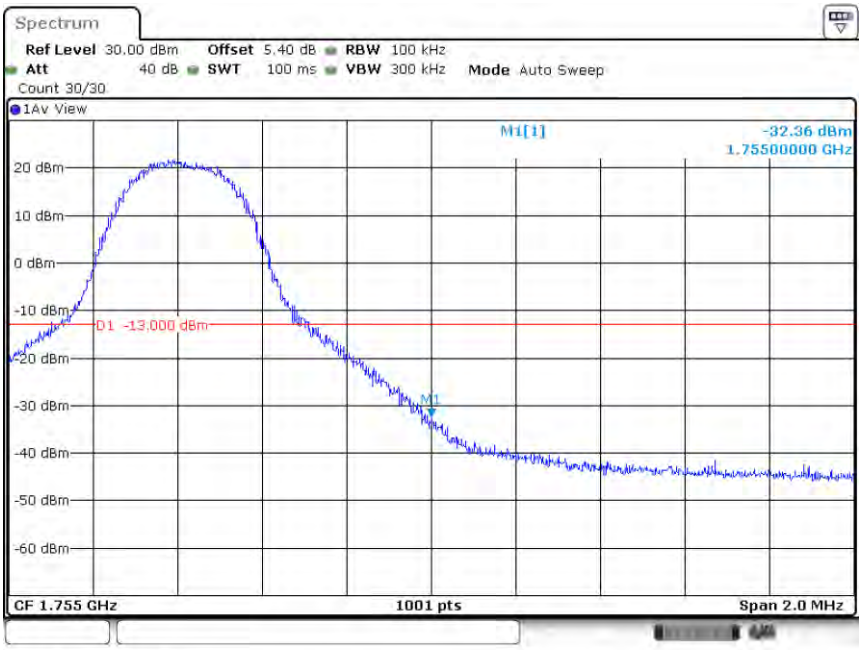
Band4-10MHz-16QAM-20350-1RB#49



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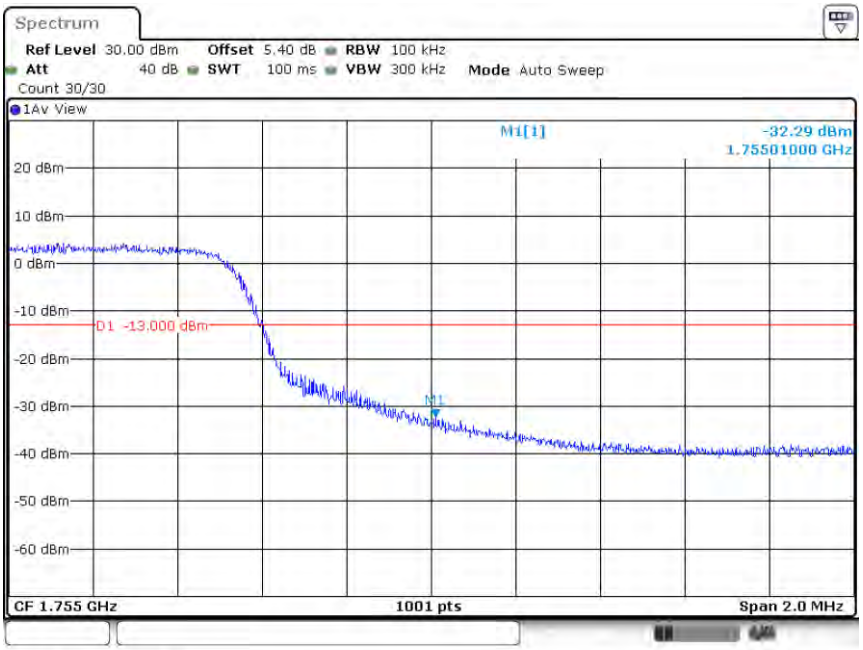
Band4-10MHz-16QAM-20350-50RB#0



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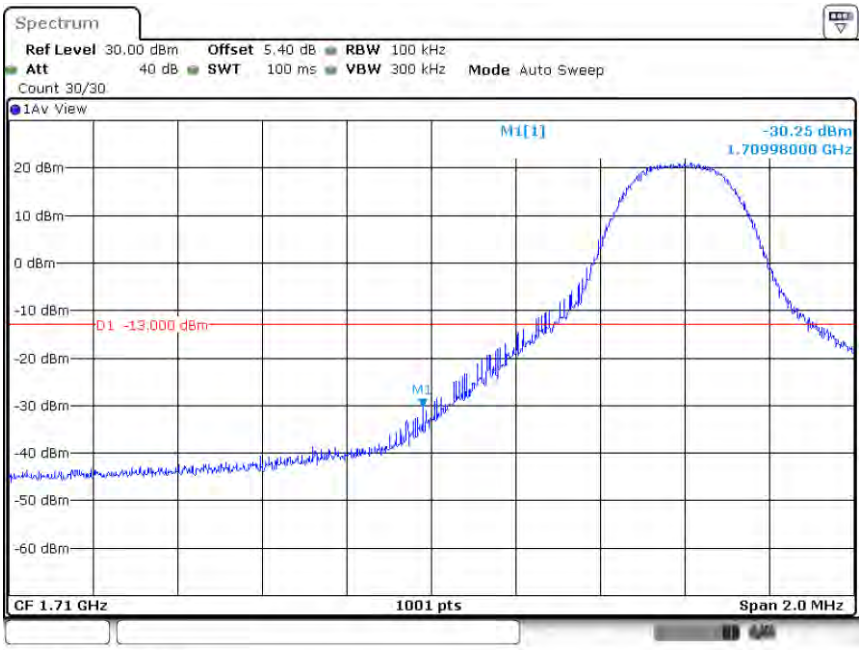
Band4-10MHz-64QAM-20000-1RB#0



Date: 22.OCT.2020 16:43:12

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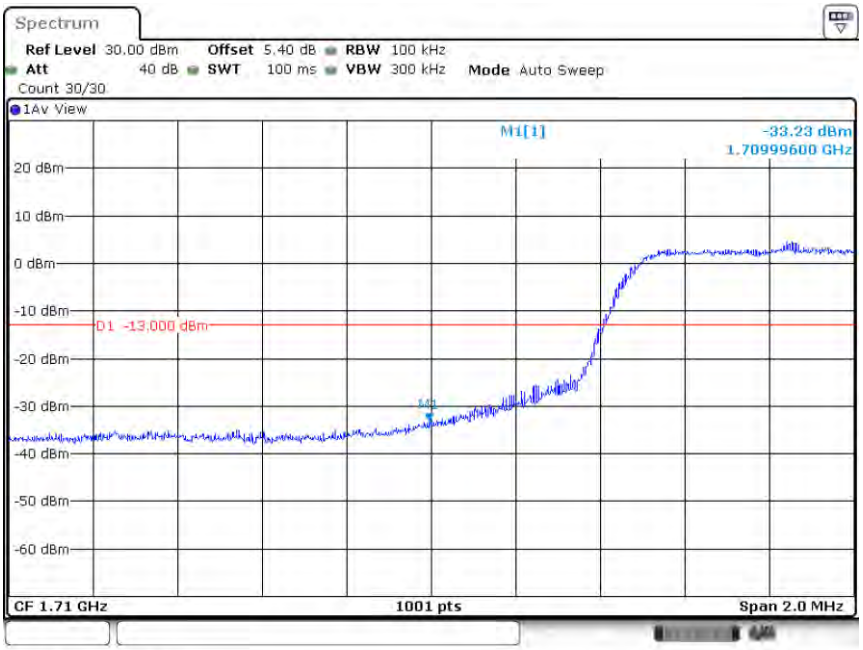

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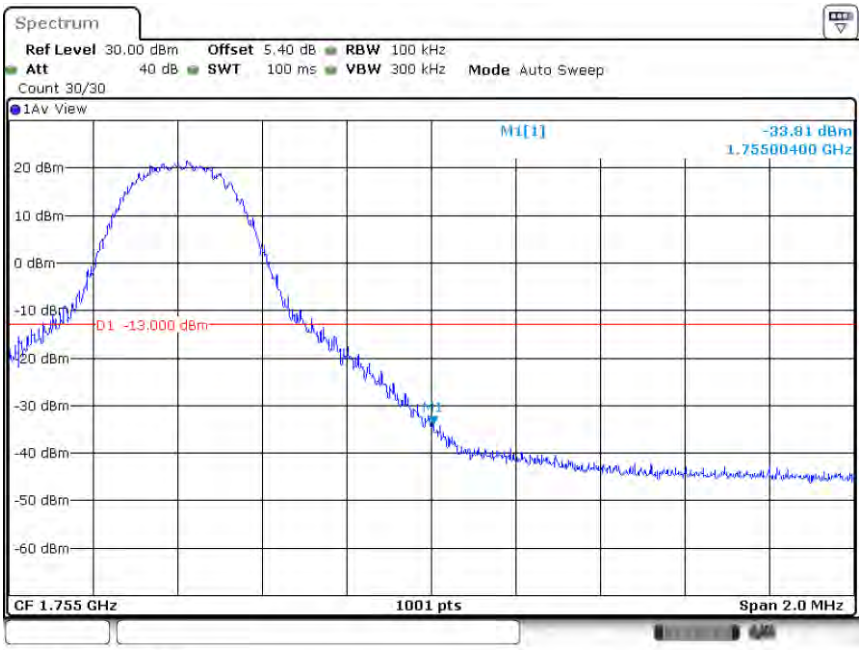
Band4-10MHz-64QAM-20350-1RB#49



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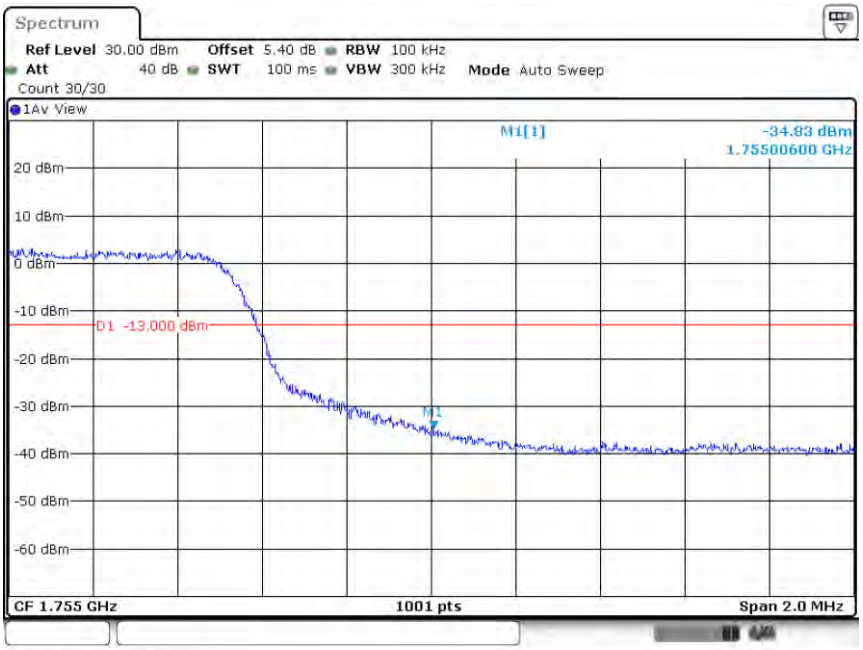

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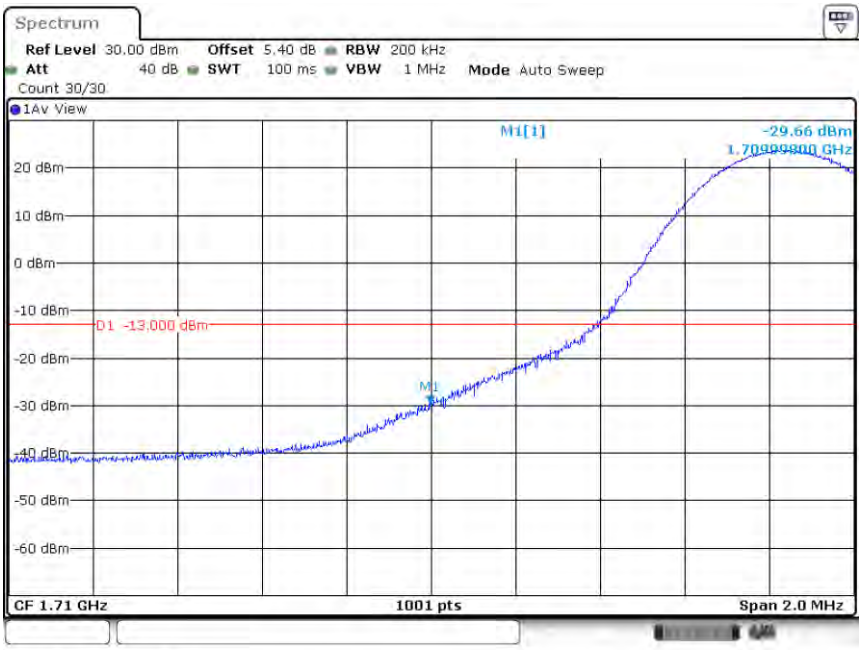
Band4-15MHz-QPSK-20025-1RB#0



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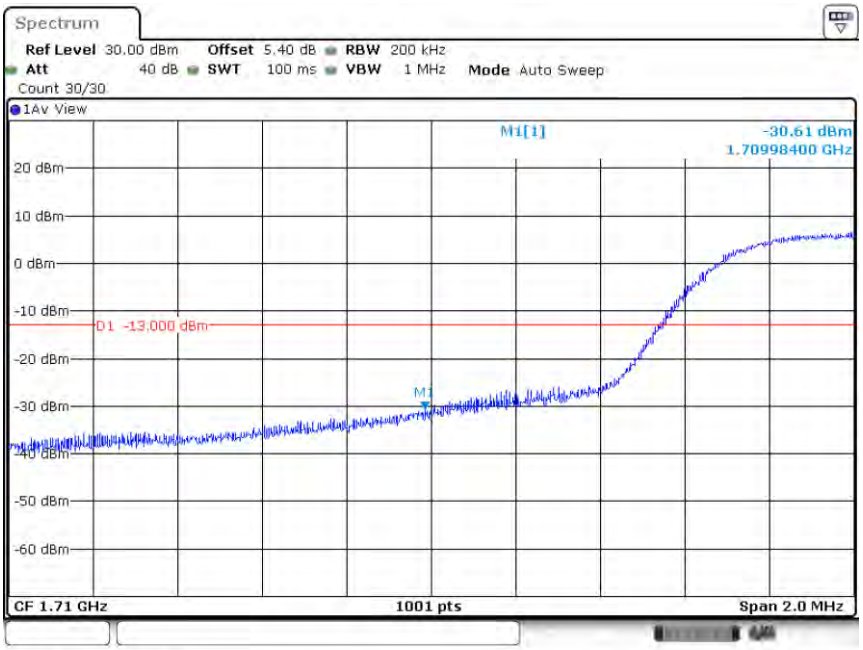
Band4-15MHz-QPSK-20025-75RB#0



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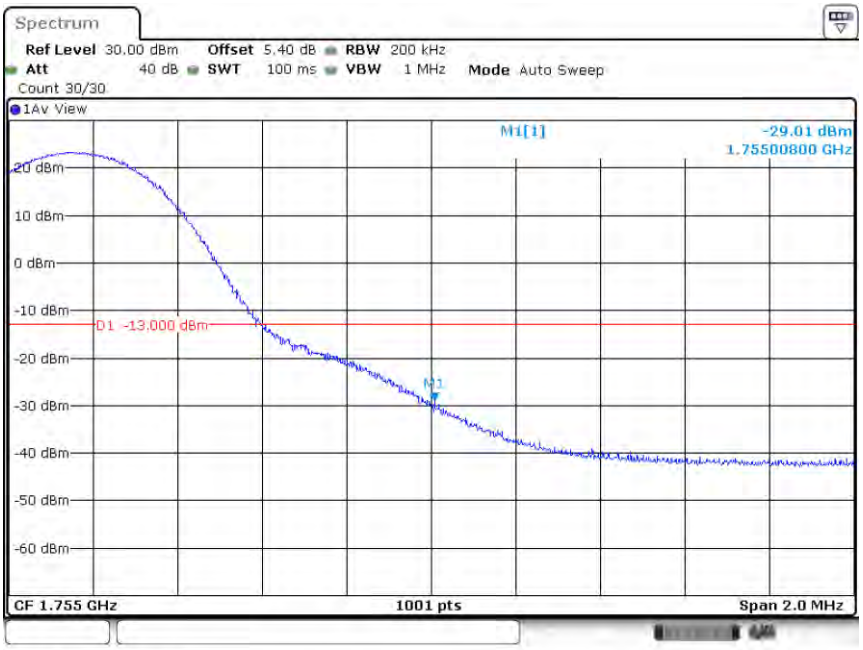
Band4-15MHz-QPSK-20325-1RB#74



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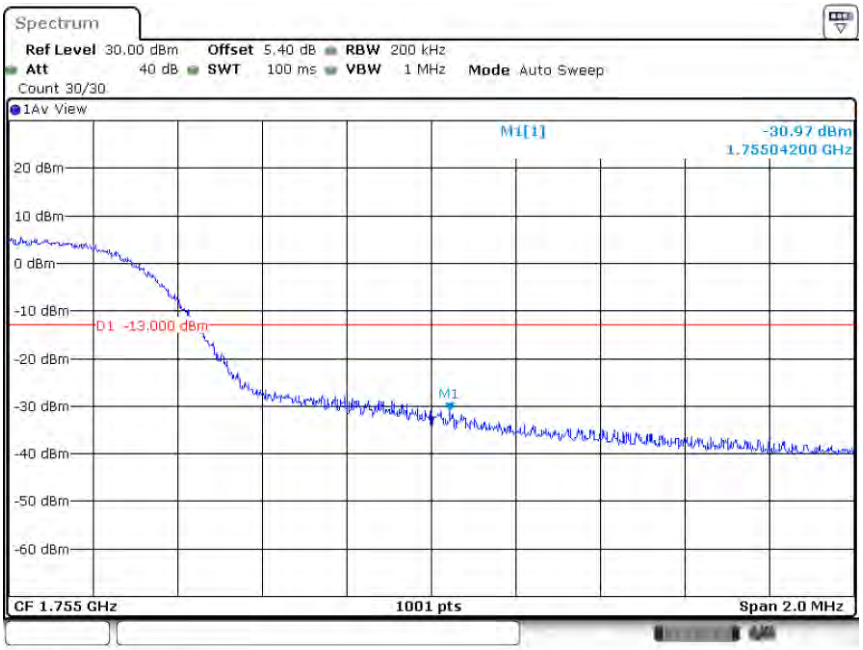
Band4-15MHz-QPSK-20325-75RB#0



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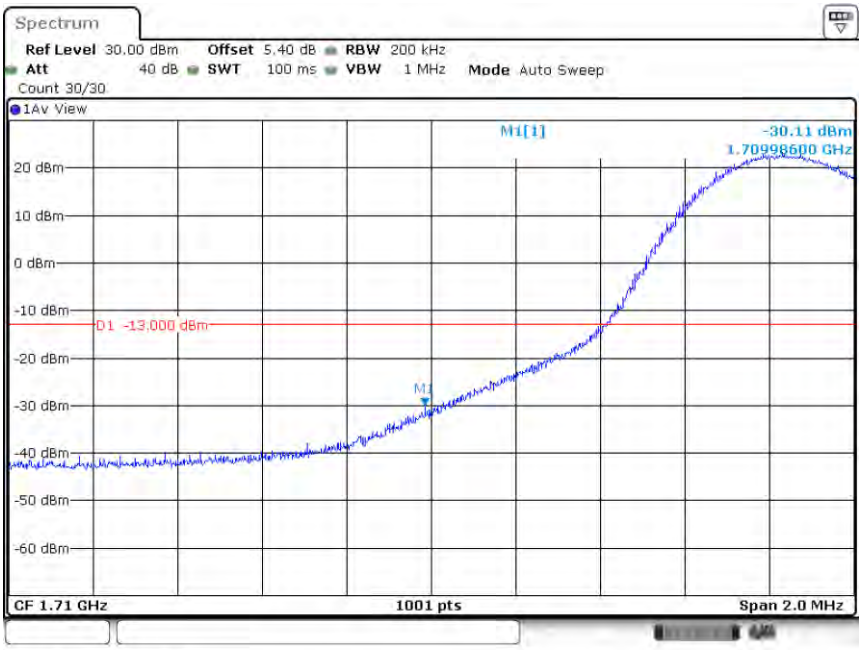
Band4-15MHz-16QAM-20025-1RB#0



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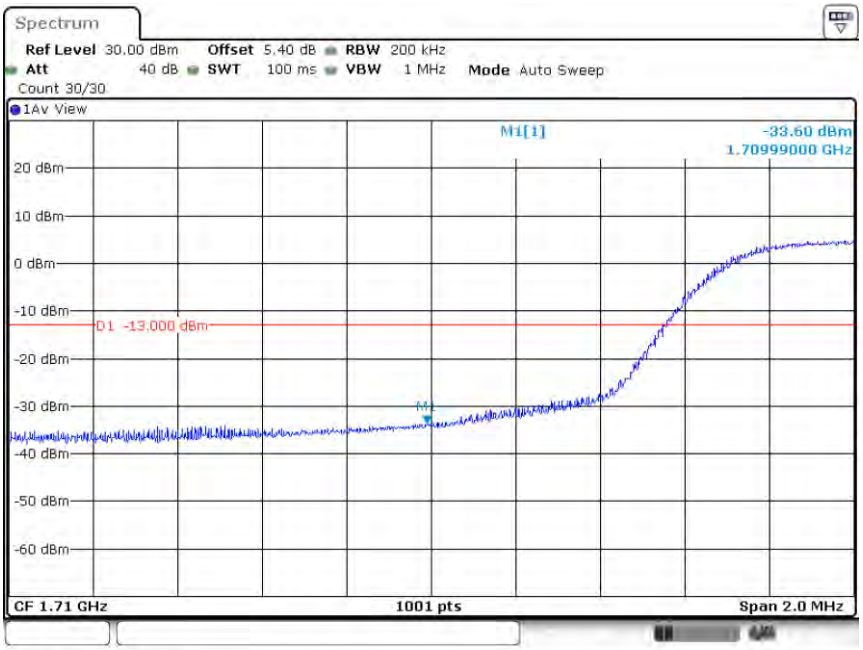

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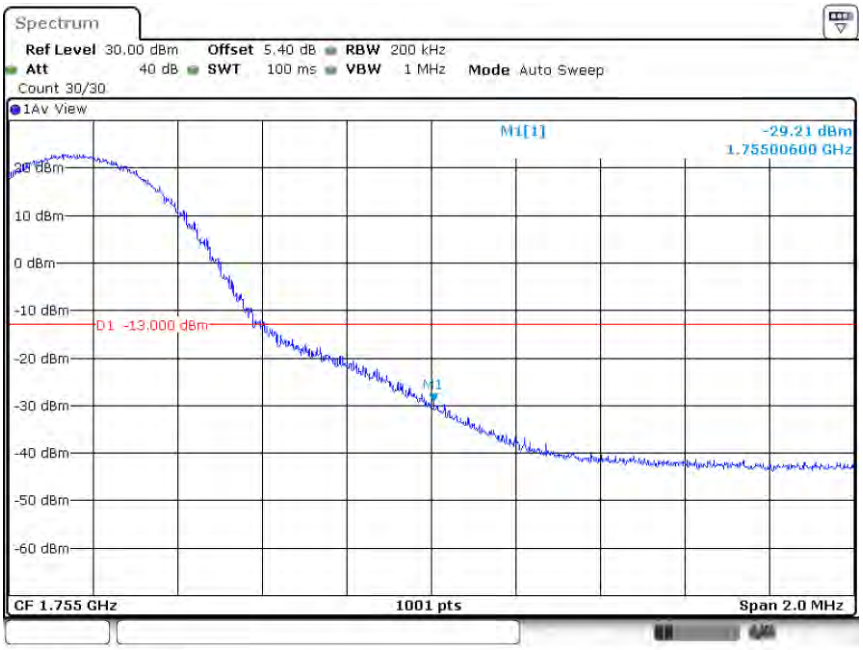
Band4-15MHz-16QAM-20325-1RB#74



Date: 22.OCT.2020 14:52:52

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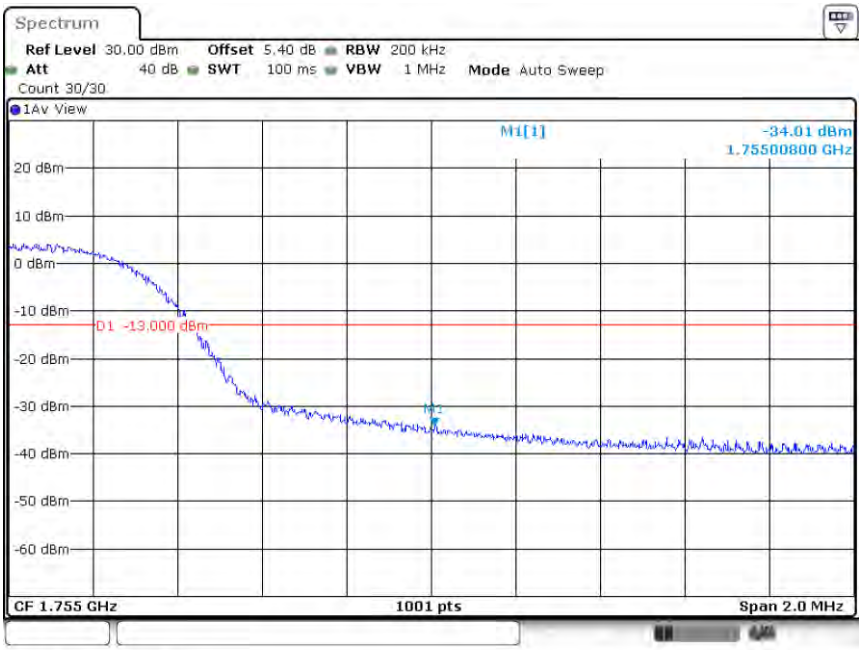
Band4-15MHz-16QAM-20325-75RB#0



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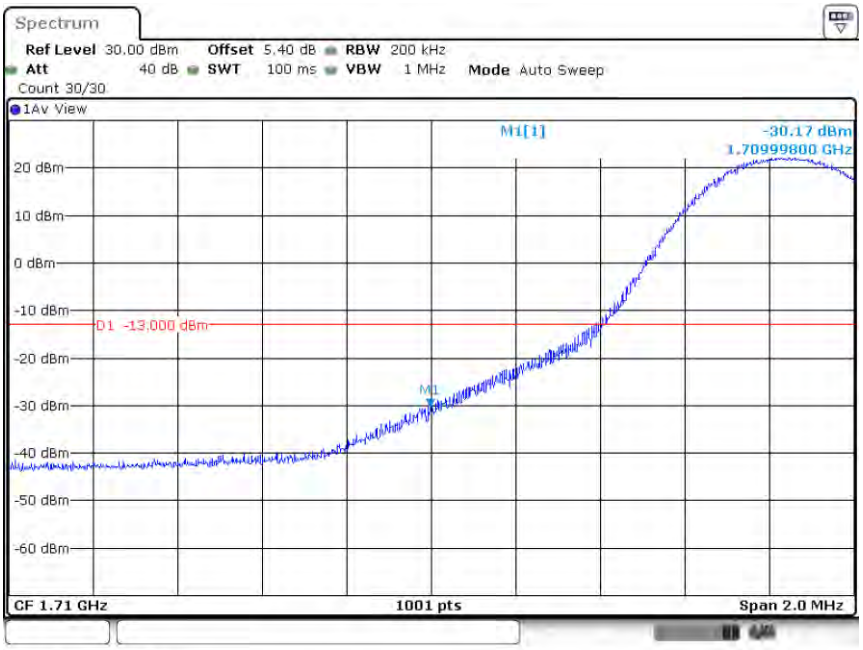
Band4-15MHz-64QAM-20025-1RB#0



Date: 22.OCT.2020 16:44:37

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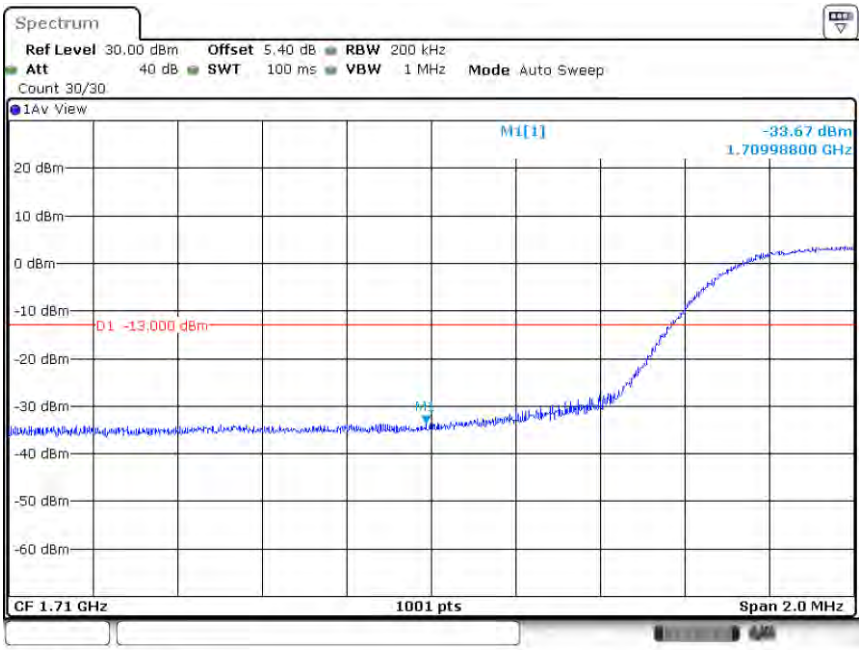
Band4-15MHz-64QAM-20025-75RB#0



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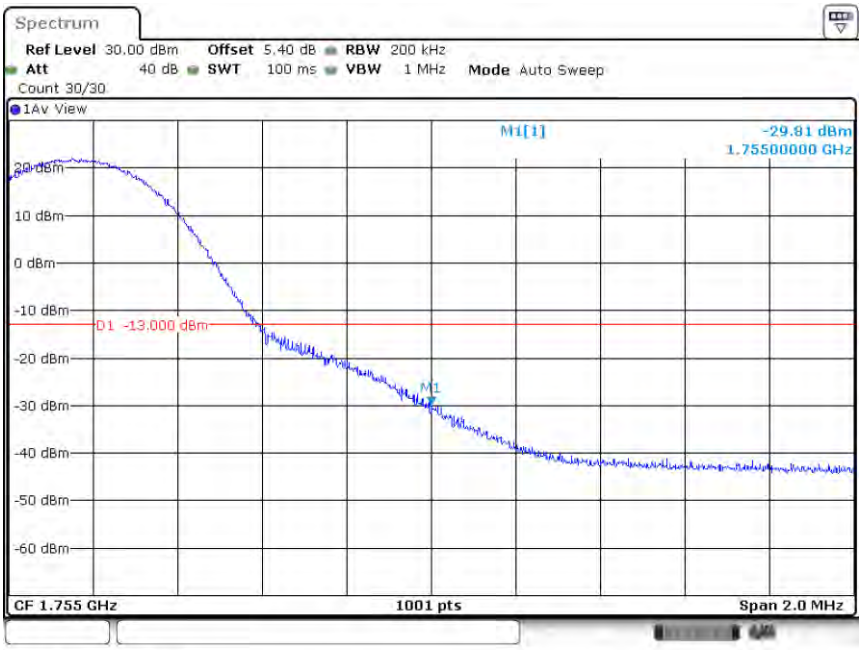
Band4-15MHz-64QAM-20325-1RB#74



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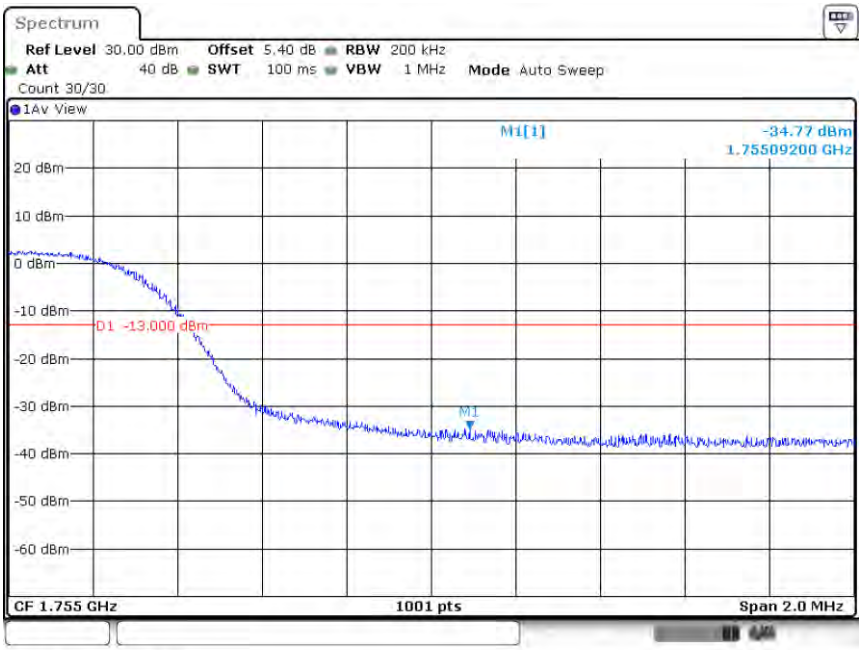
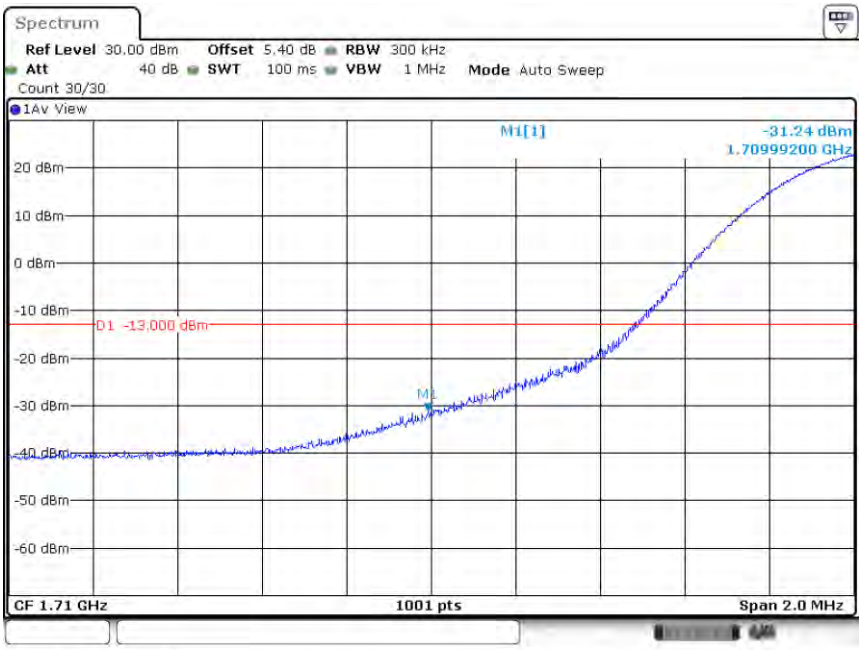


Date: 22.OCT.2020 16:45:35

Band4-20MHz-QPSK-20050-1RB#0



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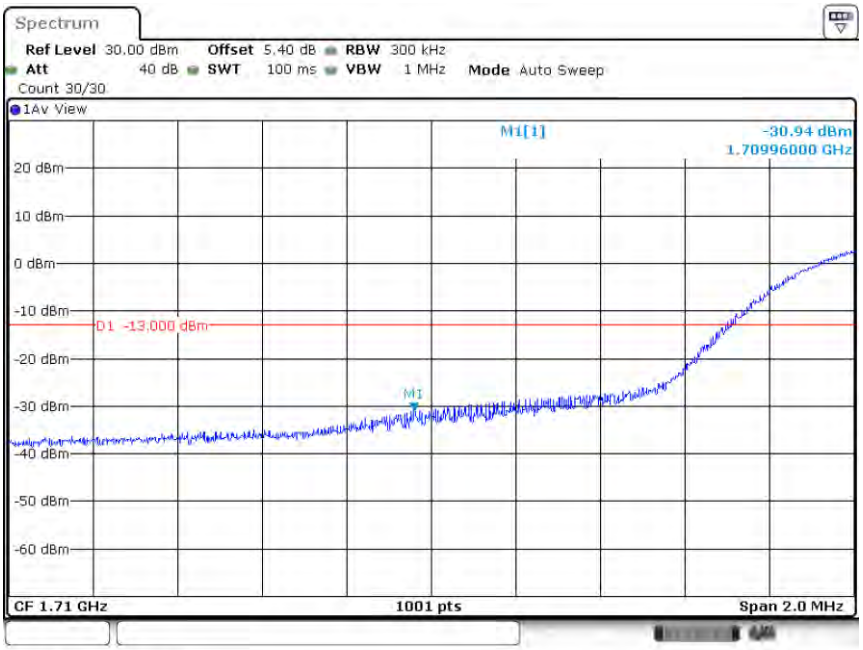
Band4-20MHz-QPSK-20050-100RB#0



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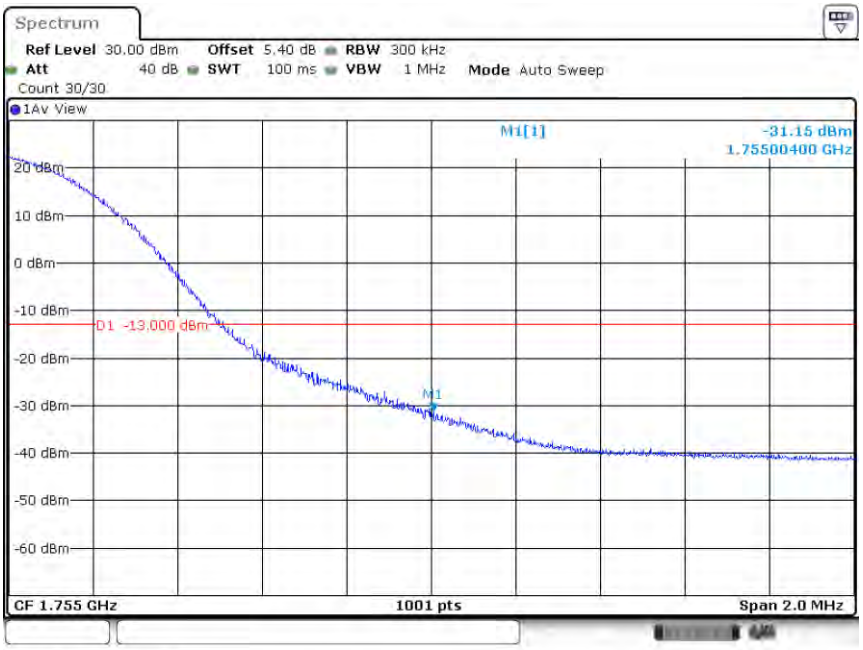
Band4-20MHz-QPSK-20300-1RB#99



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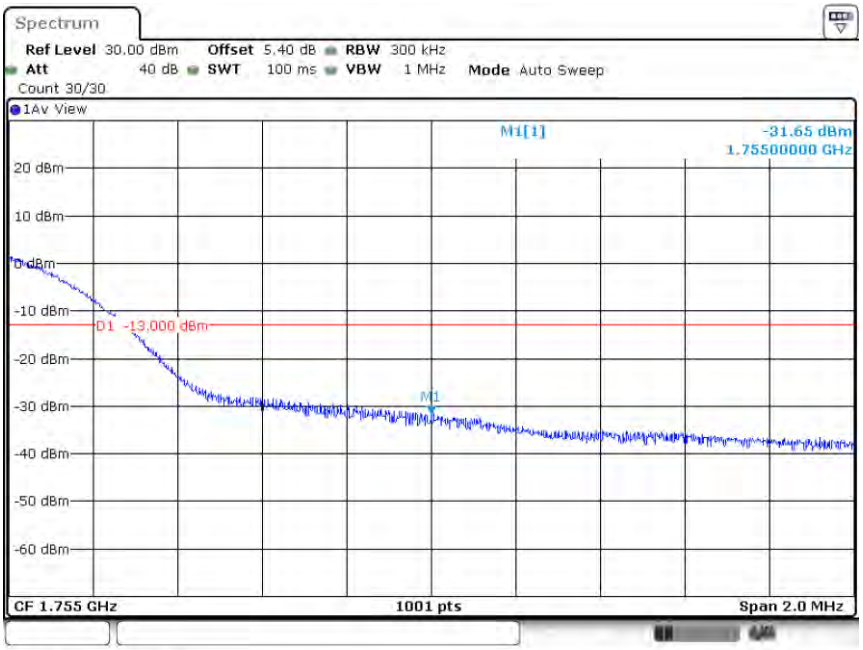
Band4-20MHz-QPSK-20300-100RB#0



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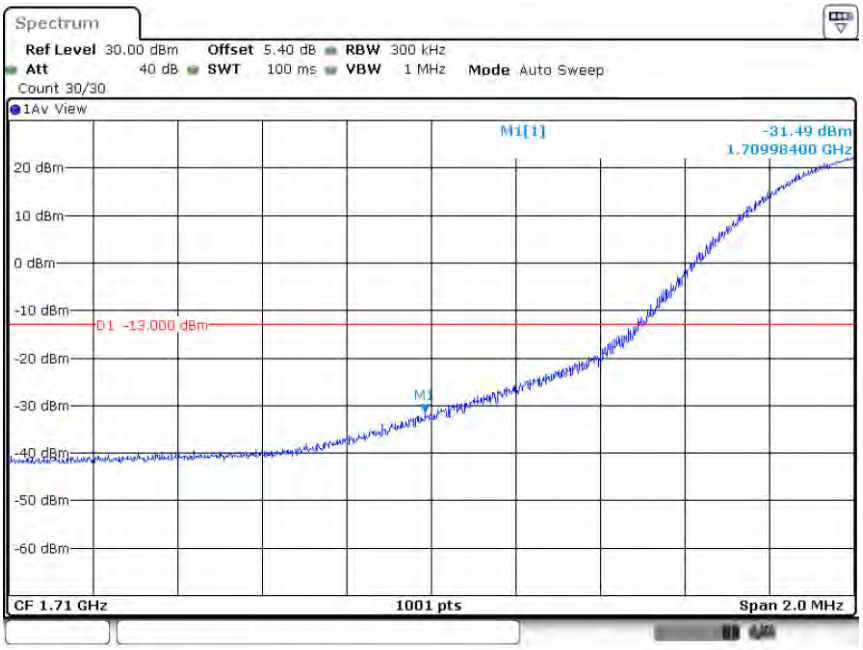
Band4-20MHz-16QAM-20050-1RB#0



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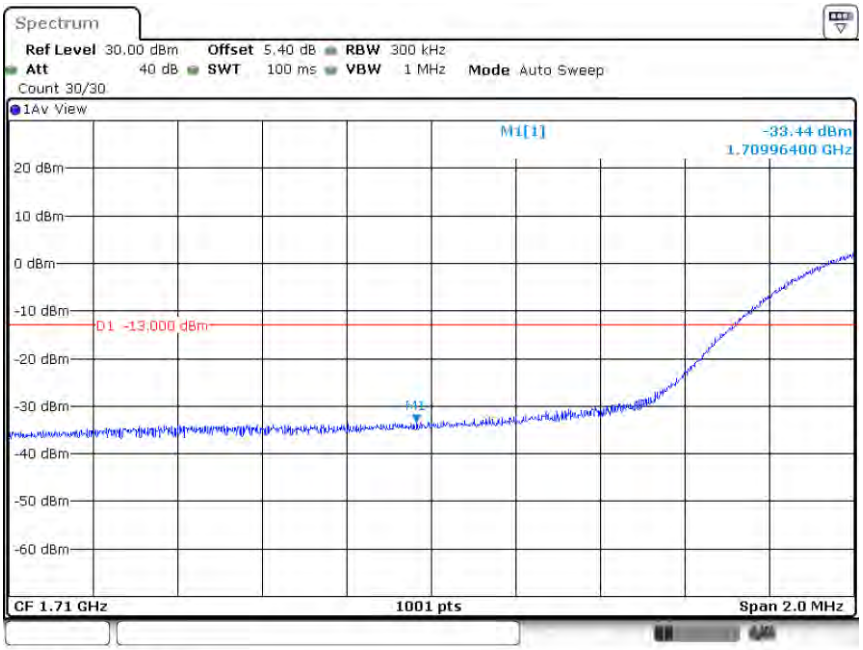
Band4-20MHz-16QAM-20050-100RB#0



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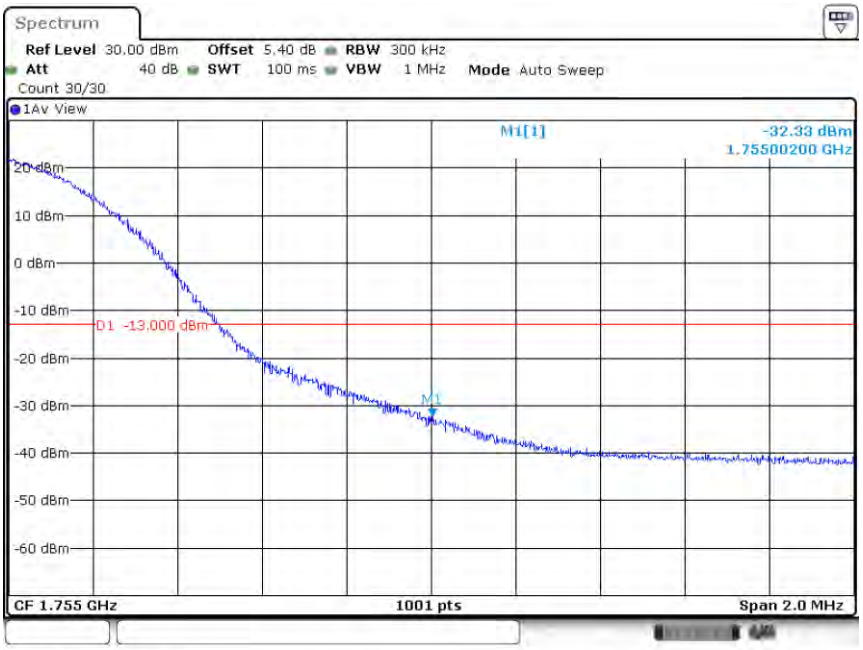
Band4-20MHz-16QAM-20300-1RB#99



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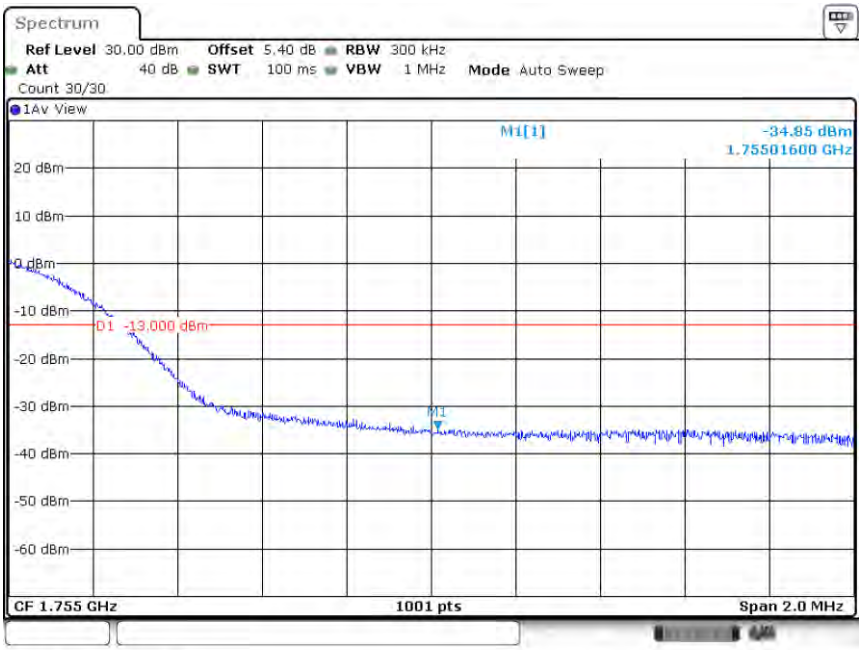
Band4-20MHz-16QAM-20300-100RB#0



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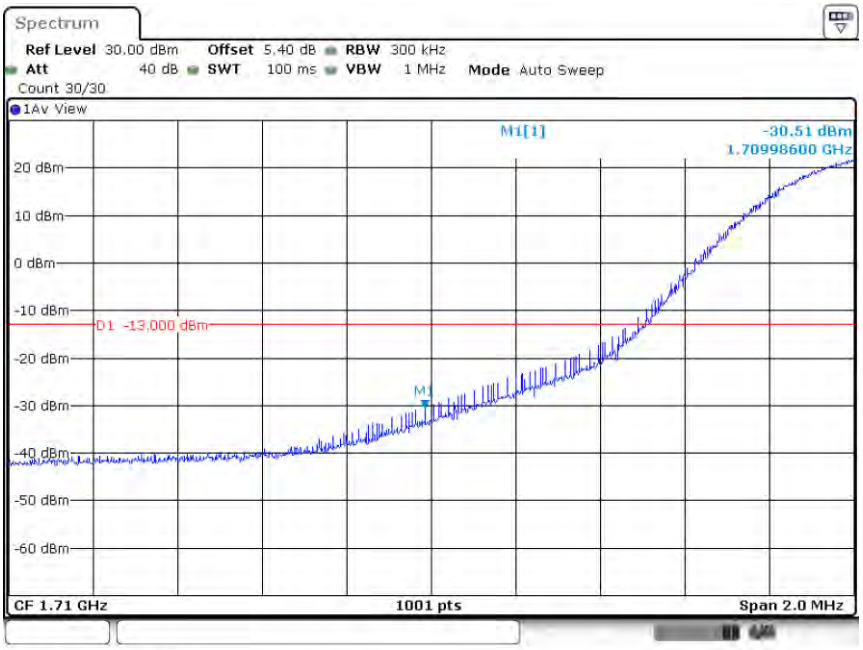
Band4-20MHz-64QAM-20050-1RB#0



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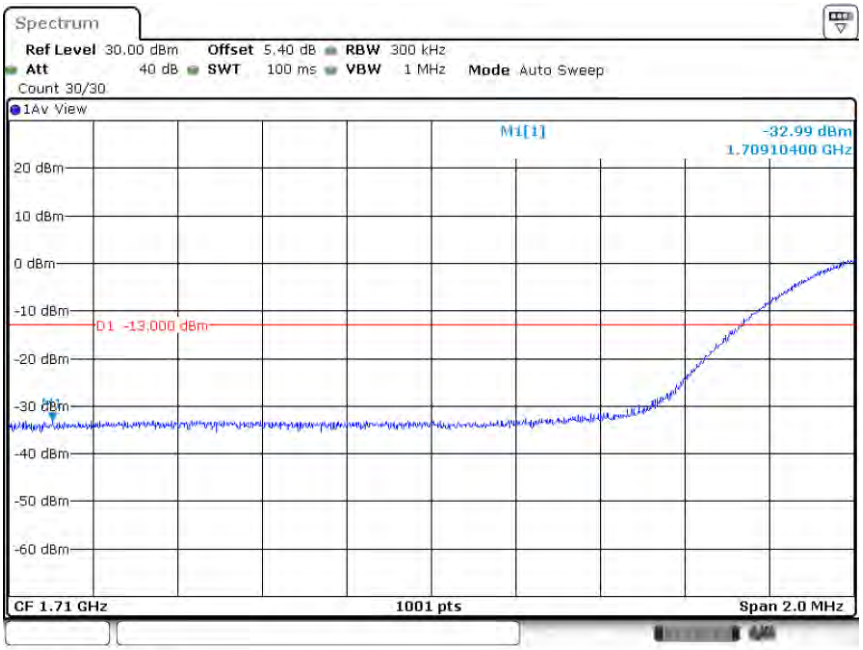
Band4-20MHz-64QAM-20050-100RB#0



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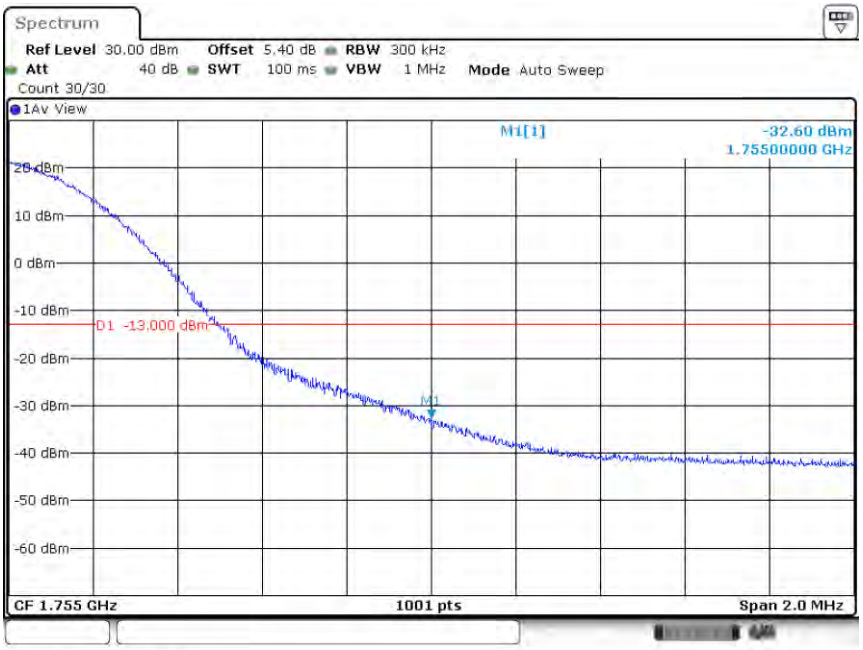
Band4-20MHz-64QAM-20300-1RB#99



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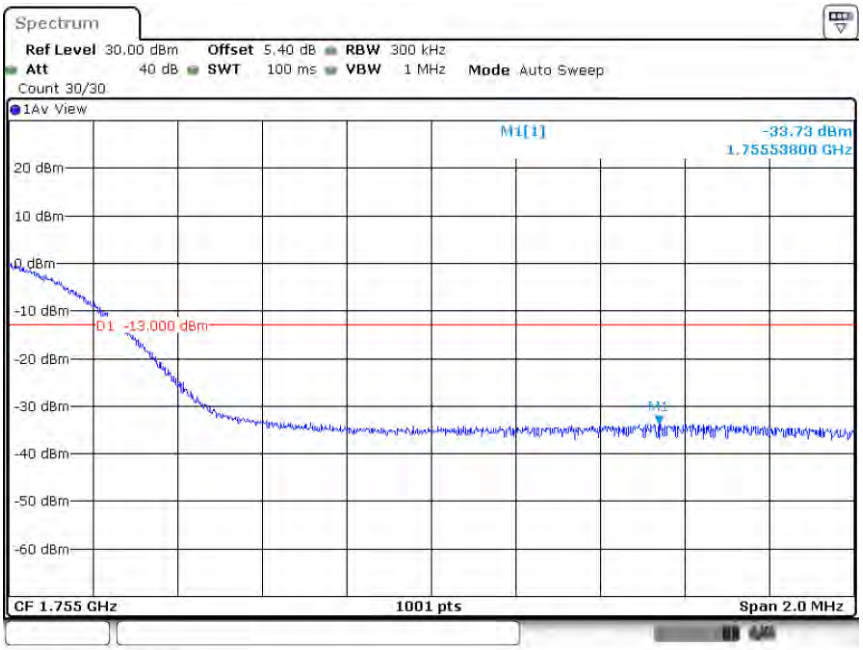
Band4-20MHz-64QAM-20300-100RB#0



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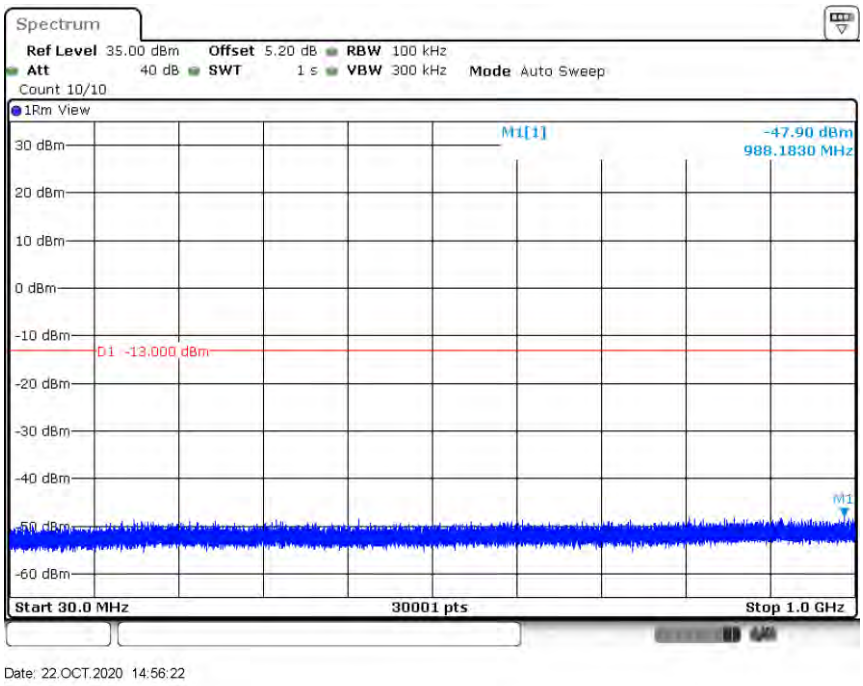
6 Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1 Test Plots

Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz



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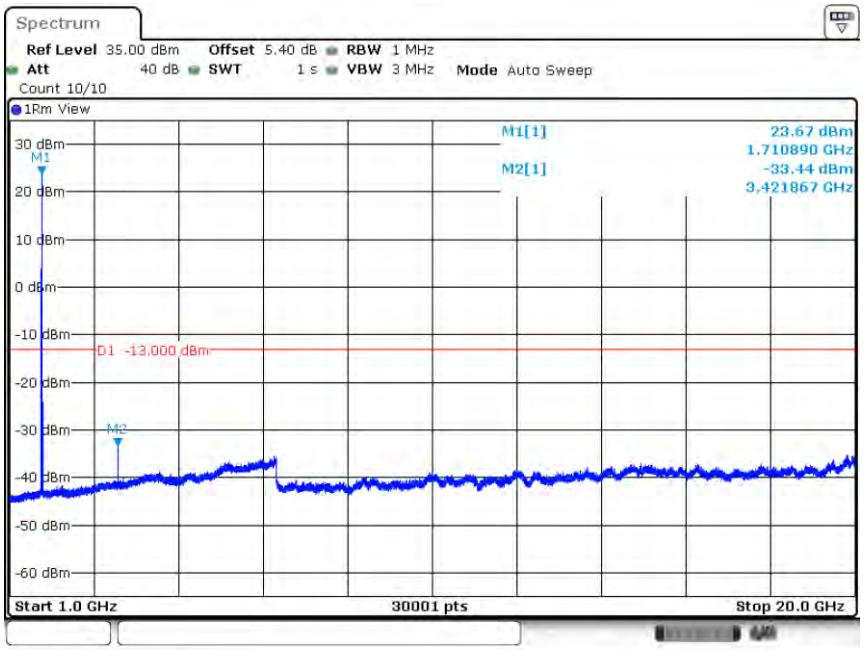
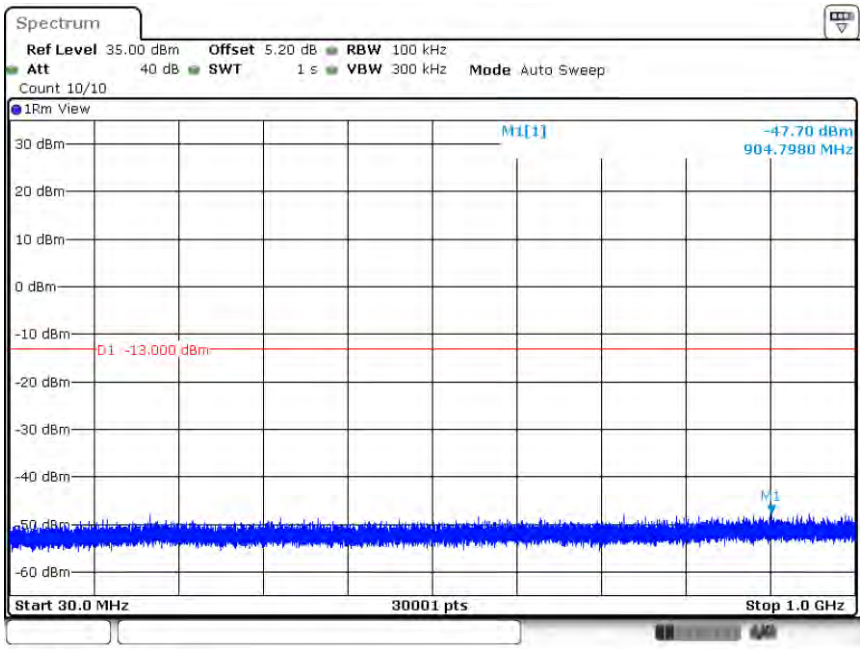
Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:56:40

Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 14:57:41

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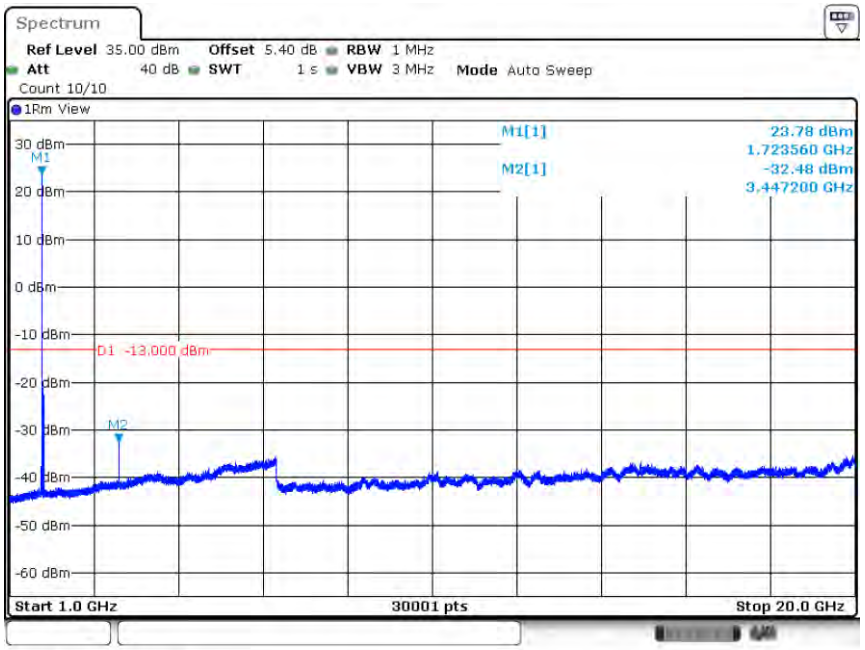
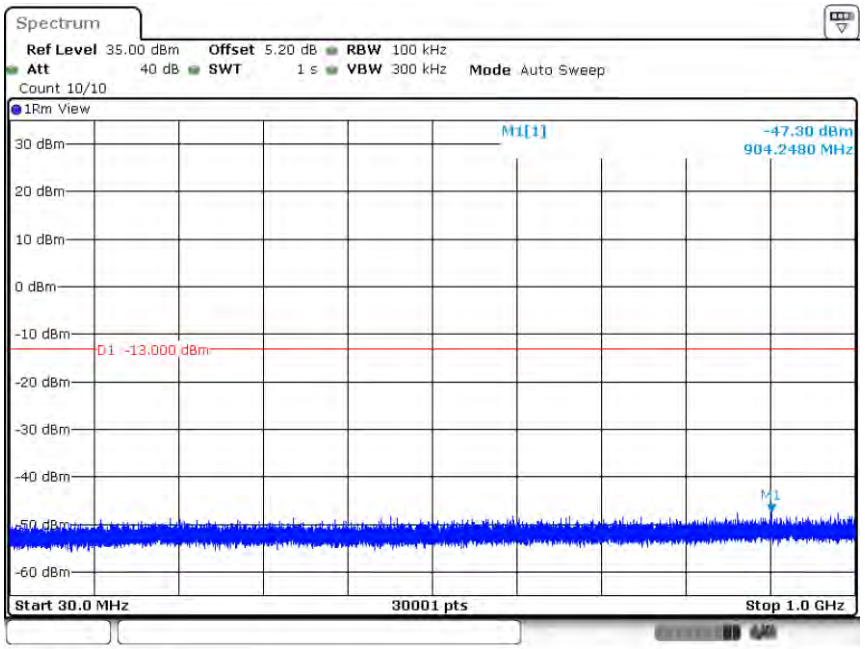
Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:57:59

Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 14:59:00

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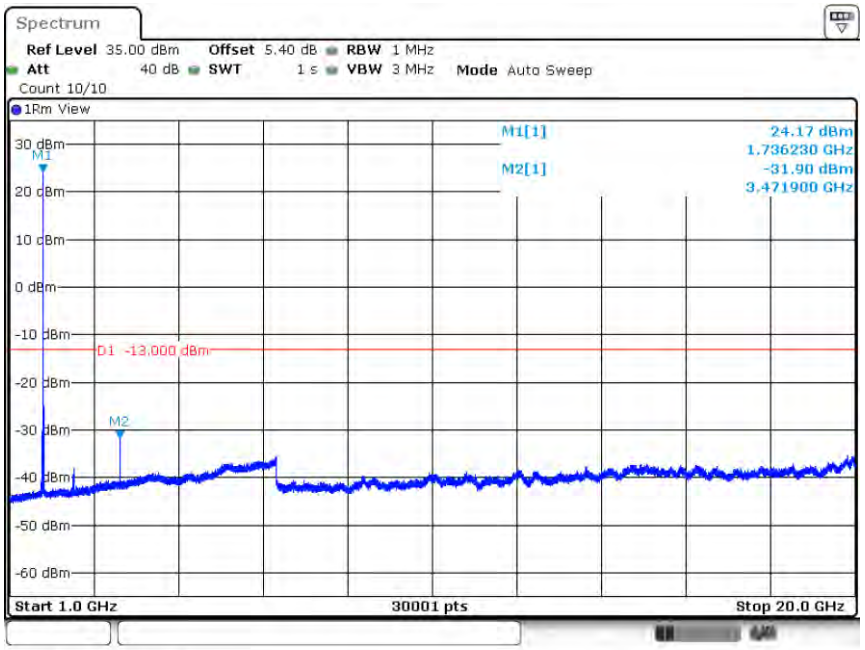
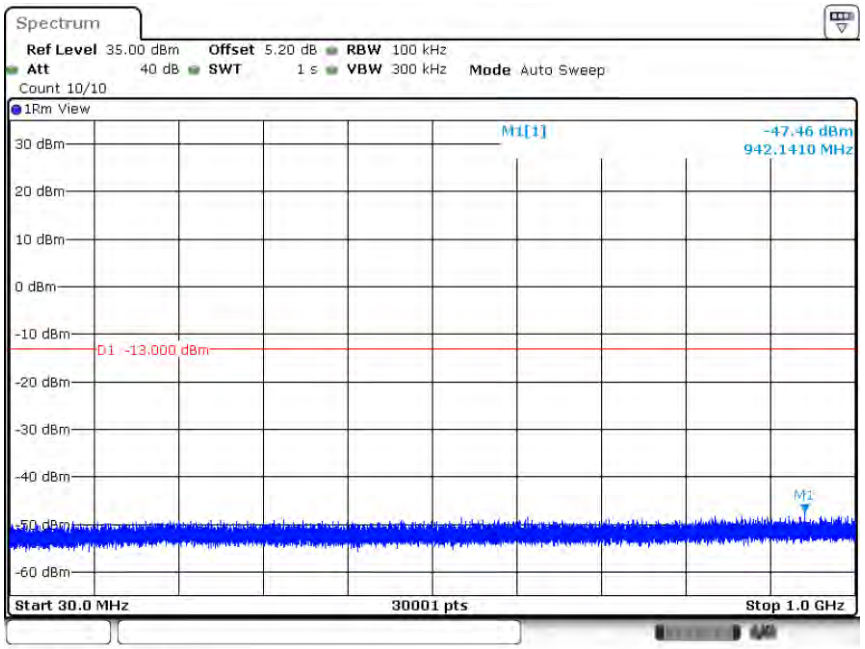
Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:59:17

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 14:57:01

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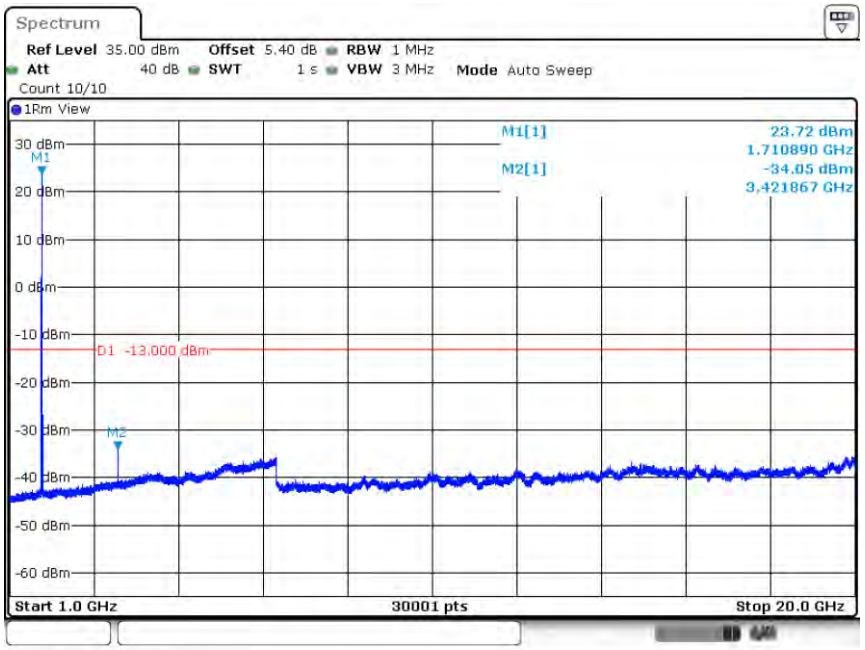
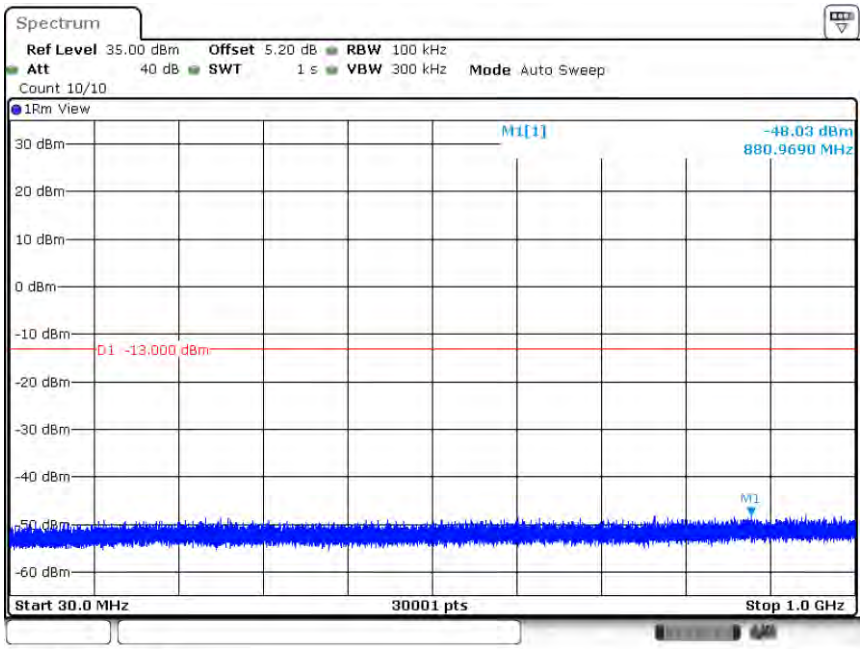
Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 22.OCT.2020 14:57:19

Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 14:58:20

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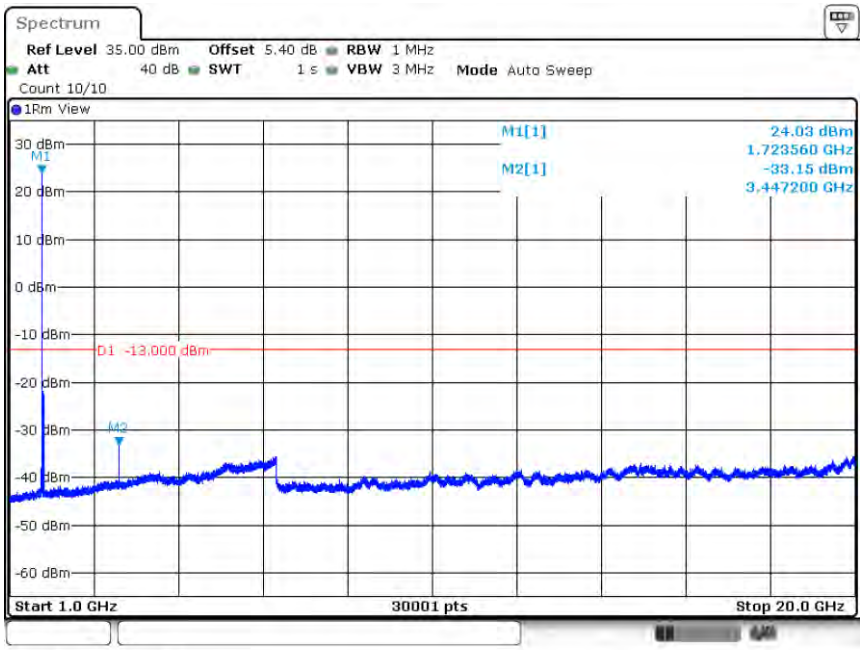
Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



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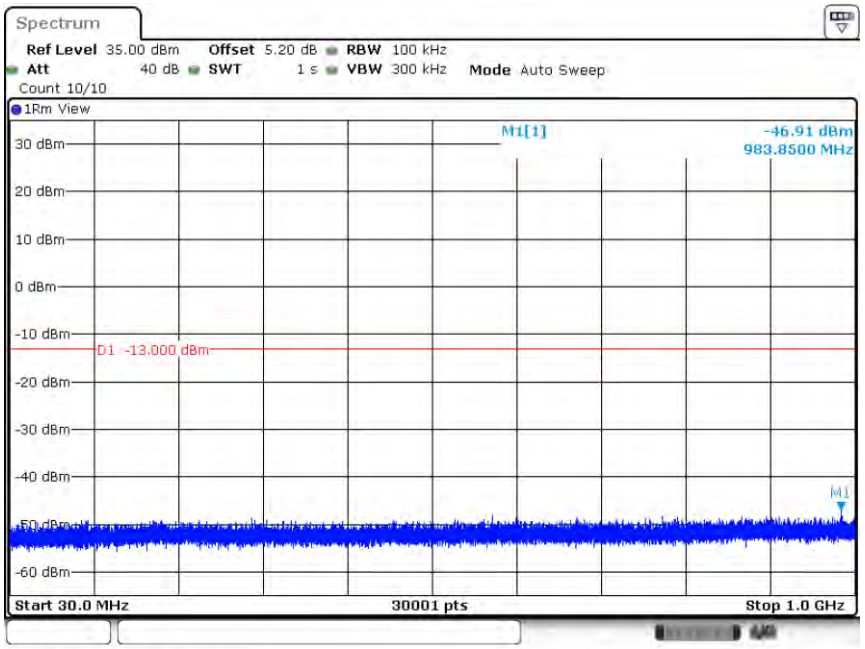

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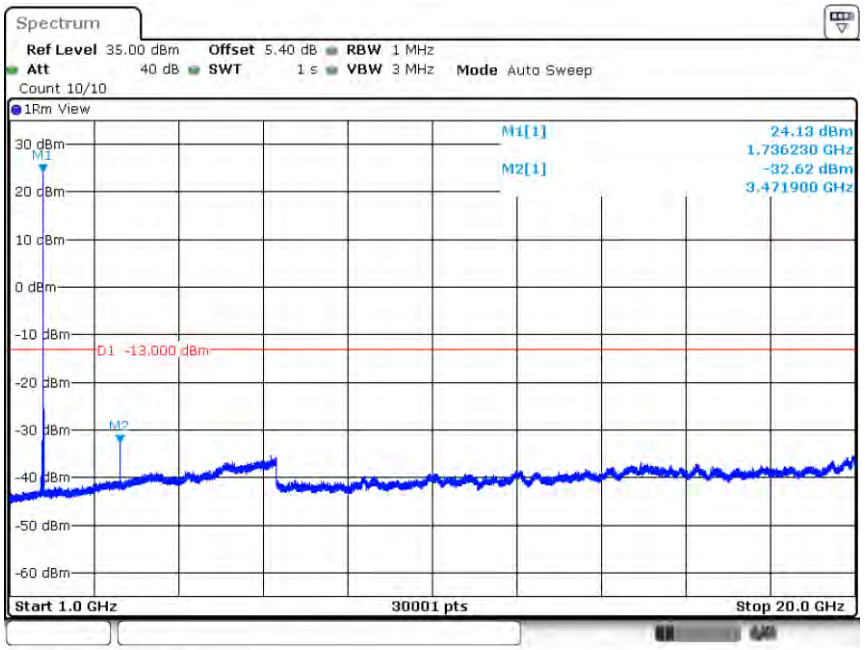
Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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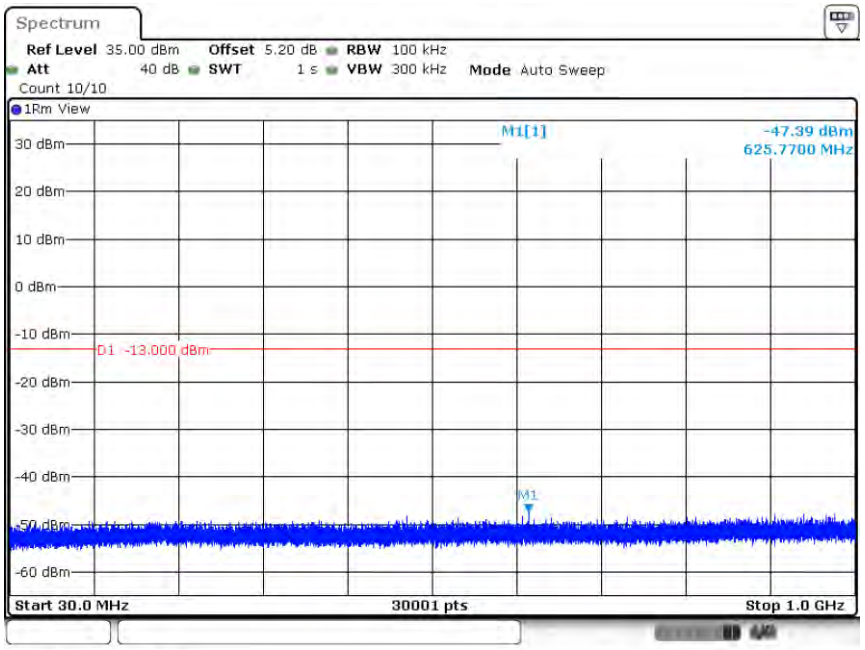
Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 16:47:27

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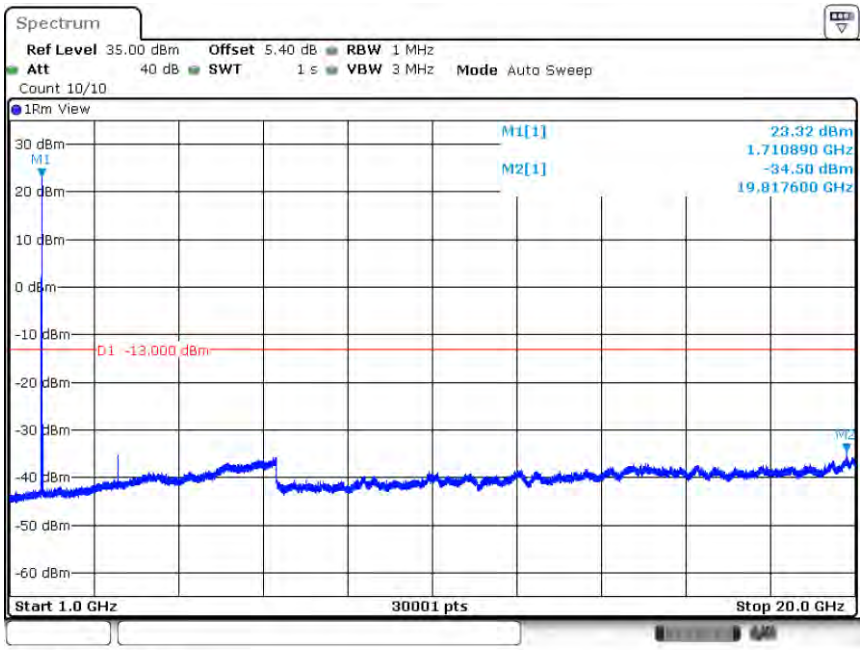

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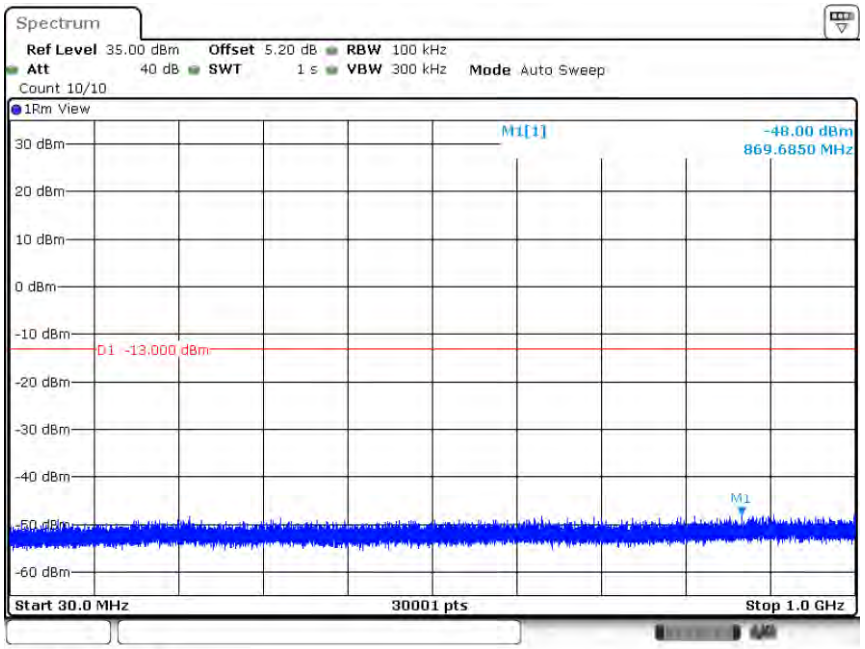
Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



Date: 22.OCT.2020 16:48:06

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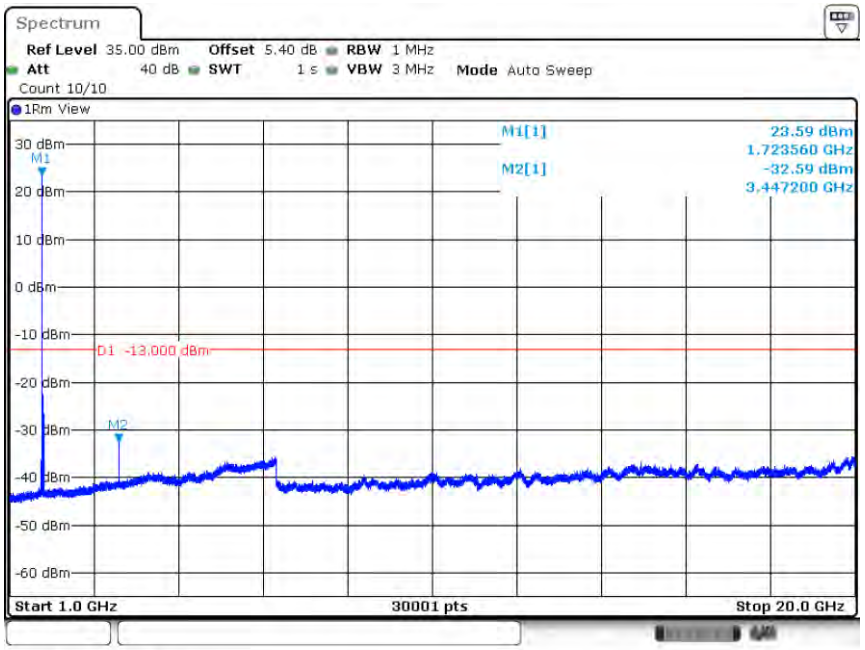
Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz



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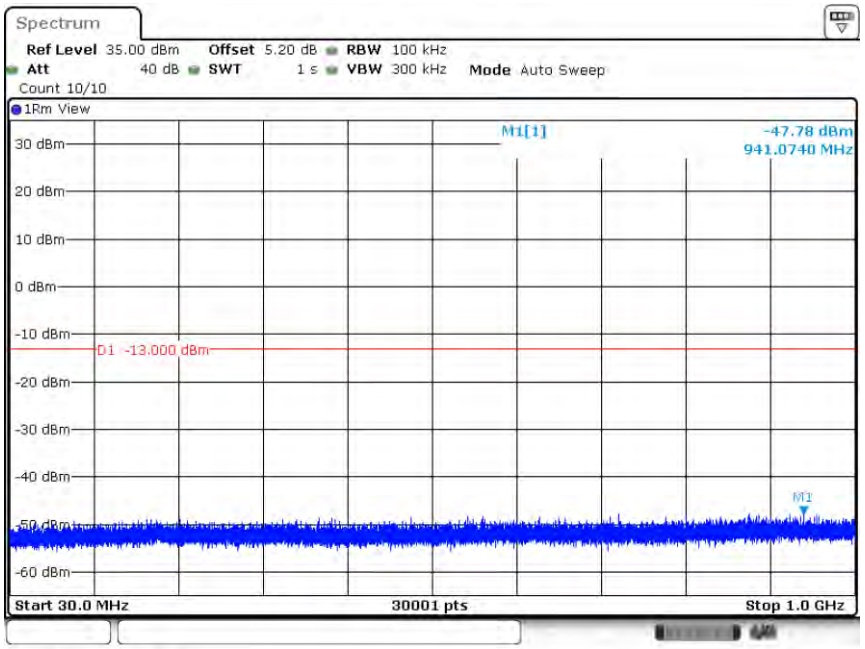
Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz



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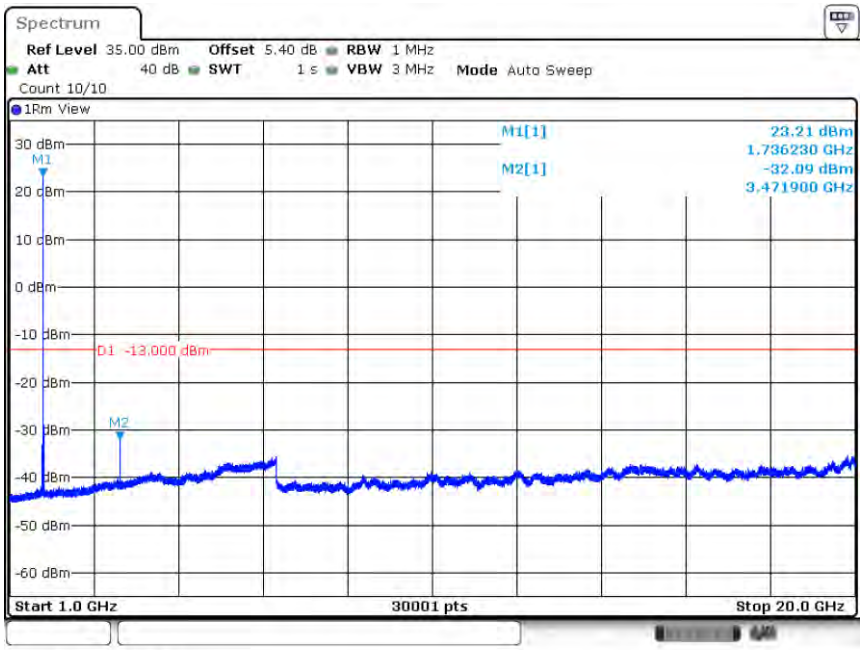

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7 Field Strength of Spurious Radiation

7.1 Test Band = LTE_4 _TM1

7.1.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.8902	-63.60	-13.00	50.60	Horizontal
2	245.2053	-67.61	-13.00	54.61	Horizontal
3	3422.0141	-51.74	-13.00	38.74	Horizontal
4	5133.0711	-58.86	-13.00	45.86	Horizontal
5	6844.1281	-55.67	-13.00	42.67	Horizontal
6	8555.1852	-52.69	-13.00	39.69	Horizontal

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7.2 Test Band = LTE_4 _TM1

7.2.1 Test Channel = Low Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	31.1156	-68.57	-13.00	55.57	Vertical
2	106.9248	-63.96	-13.00	50.96	Vertical
3	520.2140	-65.53	-13.00	52.53	Vertical
4	3422.0141	-51.06	-13.00	38.06	Vertical
5	5133.0711	-59.16	-13.00	46.16	Vertical
6	6844.6282	-55.77	-13.00	42.77	Vertical

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7.3 Test Band = LTE_4 _TM1

7.3.1 Test Channel = Middle Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.2112	-62.95	-13.00	49.95	Horizontal
2	228.1324	-67.30	-13.00	54.30	Horizontal
3	3447.0149	-47.16	-13.00	34.16	Horizontal
4	5170.5724	-59.99	-13.00	46.99	Horizontal
5	6894.1298	-55.67	-13.00	42.67	Horizontal
6	8617.6873	-53.19	-13.00	40.19	Horizontal

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7.4 Test Band = LTE_4 _TM1

7.4.1 Test Channel = Middle Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.5335	-70.46	-13.00	57.46	Vertical
2	105.5183	-64.21	-13.00	51.21	Vertical
3	3447.0149	-47.74	-13.00	34.74	Vertical
4	5171.0724	-59.73	-13.00	46.73	Vertical
5	6894.6298	-56.49	-13.00	43.49	Vertical
6	17996.499	-40.47	-13.00	27.47	Vertical

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7.5 Test Band = LTE_4 _TM1

7.5.1 Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.1442	-63.10	-13.00	50.10	Horizontal
2	227.2109	-67.51	-13.00	54.51	Horizontal
3	3472.0157	-47.94	-13.00	34.94	Horizontal
4	5208.5736	-57.63	-13.00	44.63	Horizontal
5	6944.6315	-55.77	-13.00	42.77	Horizontal
6	16381.946	-44.05	-13.00	31.05	Horizontal

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7.6 Test Band = LTE_4 _TM1

7.6.1 Test Channel = High Channel

Suspected Data List					
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	30.7275	-71.13	-13.00	58.13	Vertical
2	112.4541	-64.77	-13.00	51.77	Vertical
3	340.8520	-67.71	-13.00	54.71	Vertical
4	3472.0157	-48.27	-13.00	35.27	Vertical
5	5208.5736	-53.26	-13.00	40.26	Vertical
6	11148.7716	-51.65	-13.00	38.65	Vertical

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8 Frequency Stability

8.1 Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	0.80	0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.90	0.002267	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.90	0.001105	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	2.10	0.001212	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.20	0.000693	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	2.50	0.001453	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-1.10	-0.000635	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	1.60	0.000930	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	2.20	0.001279	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	1.40	0.000808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-4.20	-0.002407	±2.5	PASS

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8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	1.80	0.001047	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	2.10	0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	1.70	0.000988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	1.30	0.000756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.90	-0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.10	0.000635	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.30	0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.00	-0.001146	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	2.20	0.001279	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	1.60	0.000930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	0.80	0.000465	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	2.40	0.001395	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	0.50	0.000291	±2.5	PASS

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Band4	20MHz	16QAM	20050	100RB#0	NV	30	1.60	0.000930	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	2.70	0.001570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	2.60	0.001512	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-1.20	-0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	1.10	0.000635	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	1.90	0.001097	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	1.20	0.000693	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	1.60	0.000924	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	0.20	0.000115	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-4.30	-0.002464	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	1.10	0.000640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-10	1.70	0.000988	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	0.40	0.000233	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	0.70	0.000407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	1.50	0.000872	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	1.20	0.000698	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	2.60	0.001512	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.20	0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-1.50	-0.000866	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-10	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	0.20	0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	0.90	0.000519	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	1.30	0.000750	±2.5	PASS

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Band4	20MHz	64QAM	20175	100RB#0	NV	40	1.70	0.000981	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-10	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-2.30	-0.001318	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-2.20	-0.001261	±2.5	PASS

The End

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