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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	21.39	22.26	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	21.55	22.42	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	21.17	22.04	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.35	22.22	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	21.57	22.44	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.22	22.09	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	20.70	21.57	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.44	22.31	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.78	22.65	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.29	22.16	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.47	22.34	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.80	22.67	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.29	22.16	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.66	21.53	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	21.67	22.54	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.87	22.74	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.16	22.03	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.64	22.51	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	21.83	22.70	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	21.14	22.01	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.74	21.61	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.59	21.46	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	20.66	21.53	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	20.74	21.61	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	20.61	21.48	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	20.65	21.52	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	20.76	21.63	30	PASS



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Band4	1.4MHz	16QAM	19957	6RB#0	19.77	20.64	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	20.58	21.45	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	20.59	21.46	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.61	21.48	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.60	21.47	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	20.57	21.44	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.62	21.49	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	19.63	20.50	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	20.74	21.61	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	20.62	21.49	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.60	21.47	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	20.71	21.58	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	20.61	21.48	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	20.59	21.46	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.77	20.64	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.37	22.24	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	21.59	22.46	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.18	22.05	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	20.67	21.54	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	20.59	21.46	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	20.69	21.56	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.75	21.62	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	21.46	22.33	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	21.78	22.65	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	21.29	22.16	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	20.70	21.57	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	20.57	21.44	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	20.61	21.48	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.59	21.46	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	21.68	22.55	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	21.82	22.69	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	21.14	22.01	30	PASS



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Band4	3MHz	QPSK	20385	8RB#0	20.72	21.59	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	20.72	21.59	30	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.60	21.47	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.61	21.48	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.20	21.07	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.32	21.19	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	19.89	20.76	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	19.77	20.64	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	19.68	20.55	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	19.64	20.51	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.65	20.52	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.09	20.96	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	20.47	21.34	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	19.73	20.60	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	19.67	20.54	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	19.66	20.53	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	19.65	20.52	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.60	20.47	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.78	21.65	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.18	22.05	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	19.89	20.76	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	19.77	20.64	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	19.74	20.61	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	19.65	20.52	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	19.57	20.44	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.37	22.24	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	21.59	22.46	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.20	22.07	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	20.70	21.57	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	20.59	21.46	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	20.66	21.53	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.78	21.65	30	PASS



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Band4	5MHz	QPSK	20175	1RB#0	21.48	22.35	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.80	22.67	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	21.29	22.16	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.71	21.58	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.57	21.44	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.58	21.45	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.60	21.47	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.64	22.51	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.85	22.72	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	21.12	21.99	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.76	21.63	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	20.73	21.60	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.58	21.45	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.60	21.47	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.22	21.09	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.29	21.16	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	19.85	20.72	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	19.80	20.67	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	19.72	20.59	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	19.65	20.52	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	19.68	20.55	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	20.11	20.98	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.47	21.34	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	19.77	20.64	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	19.66	20.53	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	19.68	20.55	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	19.64	20.51	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	19.57	20.44	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.82	21.69	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.20	22.07	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	19.86	20.73	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	19.77	20.64	30	PASS



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Band4	5MHz	16QAM	20375	12RB#13	19.66	20.53	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.57	20.44	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.36	22.23	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.56	22.43	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.21	22.08	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	20.69	21.56	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	20.62	21.49	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	20.66	21.53	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	20.73	21.60	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.48	22.35	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.82	22.69	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.29	22.16	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	20.66	21.53	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	20.56	21.43	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	20.61	21.48	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.62	21.49	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	21.64	22.51	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.83	22.70	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	21.15	22.02	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	20.72	21.59	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	20.69	21.56	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	20.63	21.50	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	20.62	21.49	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.18	21.05	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	20.30	21.17	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	19.89	20.76	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	19.75	20.62	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	19.70	20.57	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	19.68	20.55	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	19.68	20.55	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	20.10	20.97	30	PASS



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Band4	10MHz	16QAM	20175	1RB#49	19.76	20.63	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	19.66	20.53	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	19.67	20.54	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	19.60	20.47	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	19.59	20.46	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	20.81	21.68	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.21	22.08	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	19.87	20.74	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	19.77	20.64	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	19.70	20.57	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	19.63	20.50	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	19.56	20.43	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.36	22.23	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	21.58	22.45	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.19	22.06	30	PASS
Band4	15MHz	QPSK	20025	38RB#0	20.69	21.56	30	PASS
Band4	15MHz	QPSK	20025	38RB#18	20.58	21.45	30	PASS
Band4	15MHz	QPSK	20025	38RB#37	20.65	21.52	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	20.76	21.63	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.46	22.33	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.77	22.64	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.30	22.17	30	PASS
Band4	15MHz	QPSK	20175	38RB#0	20.70	21.57	30	PASS
Band4	15MHz	QPSK	20175	38RB#18	20.57	21.44	30	PASS
Band4	15MHz	QPSK	20175	38RB#37	20.61	21.48	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	20.57	21.44	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	21.67	22.54	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.82	22.69	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.13	22.00	30	PASS
Band4	15MHz	QPSK	20325	38RB#0	20.73	21.60	30	PASS
Band4	15MHz	QPSK	20325	38RB#18	20.74	21.61	30	PASS



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Band4	15MHz	QPSK	20325	38RB#37	20.63	21.50	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	20.61	21.48	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	20.18	21.05	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	20.29	21.16	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	19.84	20.71	30	PASS
Band4	15MHz	16QAM	20025	38RB#0	19.75	20.62	30	PASS
Band4	15MHz	16QAM	20025	38RB#18	19.72	20.59	30	PASS
Band4	15MHz	16QAM	20025	38RB#37	19.65	20.52	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	19.67	20.54	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	20.13	21.00	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.46	21.33	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	19.72	20.59	30	PASS
Band4	15MHz	16QAM	20175	38RB#0	19.67	20.54	30	PASS
Band4	15MHz	16QAM	20175	38RB#18	19.69	20.56	30	PASS
Band4	15MHz	16QAM	20175	38RB#37	19.64	20.51	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	19.56	20.43	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	20.77	21.64	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.18	22.05	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	19.88	20.75	30	PASS
Band4	15MHz	16QAM	20325	38RB#0	19.77	20.64	30	PASS
Band4	15MHz	16QAM	20325	38RB#18	19.72	20.59	30	PASS
Band4	15MHz	16QAM	20325	38RB#37	19.63	20.50	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	19.57	20.44	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	21.45	22.32	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	21.64	22.51	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.27	22.14	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	20.76	21.63	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	20.67	21.54	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	20.74	21.61	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	20.83	21.70	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.53	22.40	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	21.87	22.74	30	PASS



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Band4	20MHz	QPSK	20175	1RB#99	21.38	22.25	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	20.76	21.63	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	20.66	21.53	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	20.67	21.54	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.67	21.54	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.73	22.60	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	21.82	22.69	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.22	22.09	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	20.82	21.69	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	20.79	21.66	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.68	21.55	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.68	21.55	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	20.27	21.14	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	20.39	21.26	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	19.94	20.81	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	19.85	20.72	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	19.78	20.65	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	19.74	20.61	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	19.73	20.60	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	20.19	21.06	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	20.55	21.42	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	19.82	20.69	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	19.73	20.60	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	19.76	20.63	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	19.70	20.57	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	19.66	20.53	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	20.87	21.74	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.26	22.13	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	19.96	20.83	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	19.84	20.71	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	19.80	20.67	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	19.72	20.59	30	PASS



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Band4	20MHz	16QAM	20300	100RB#0	19.65	20.52	30	PASS
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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.00	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.82	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.12	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.86	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.70	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.90	13	PASS



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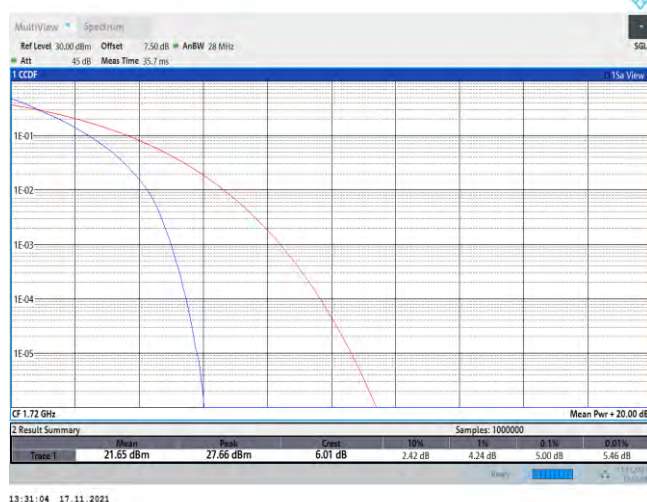
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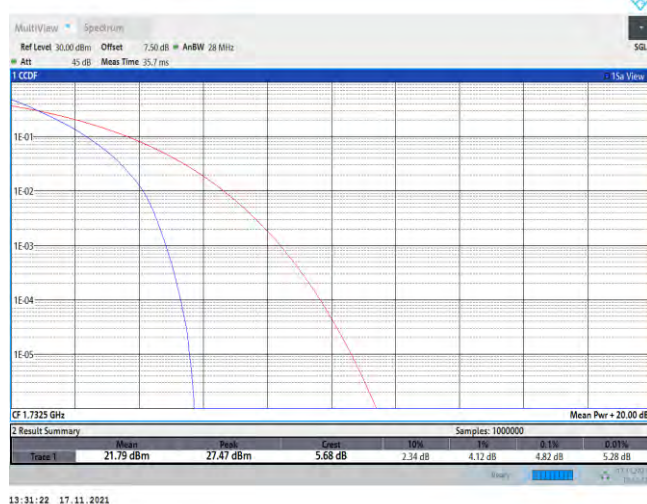
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Test Graphs

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



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



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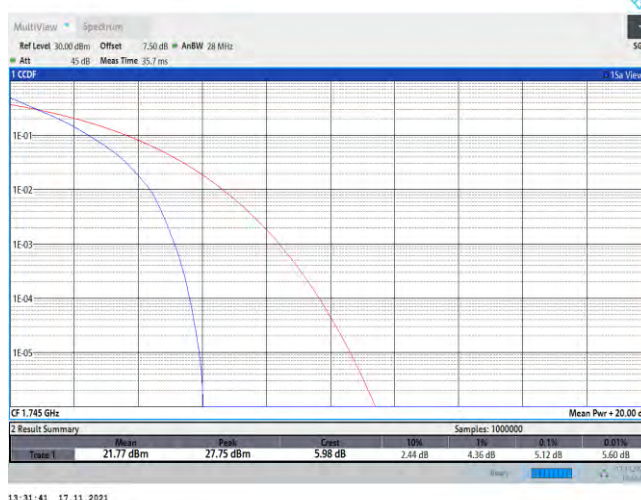
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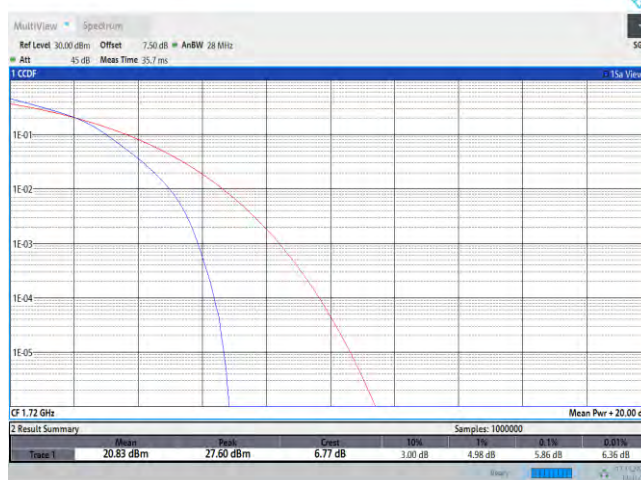
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Band4-20MHz-QPSK-20300-100RB#0



13:31:41 17.11.2021

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



13:31:12 17.11.2021



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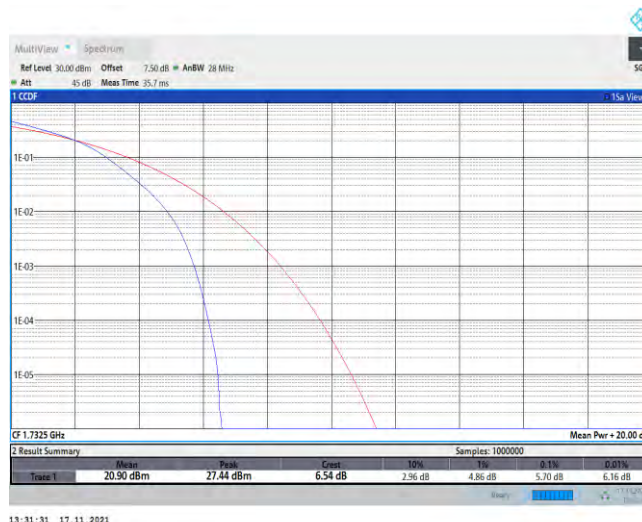
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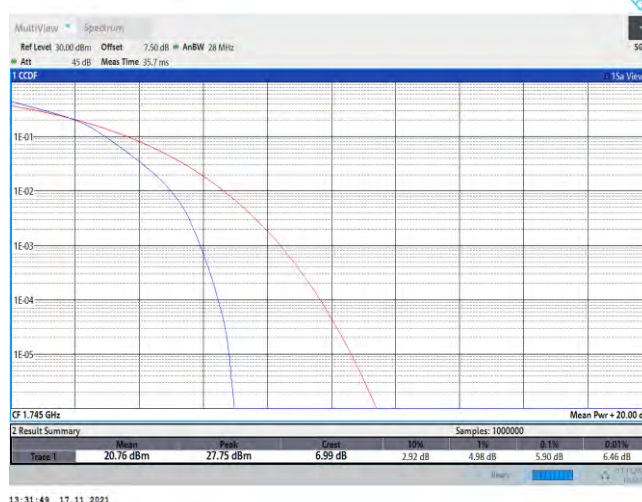
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Band4-20MHz-16QAM-20175-100RB#0



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



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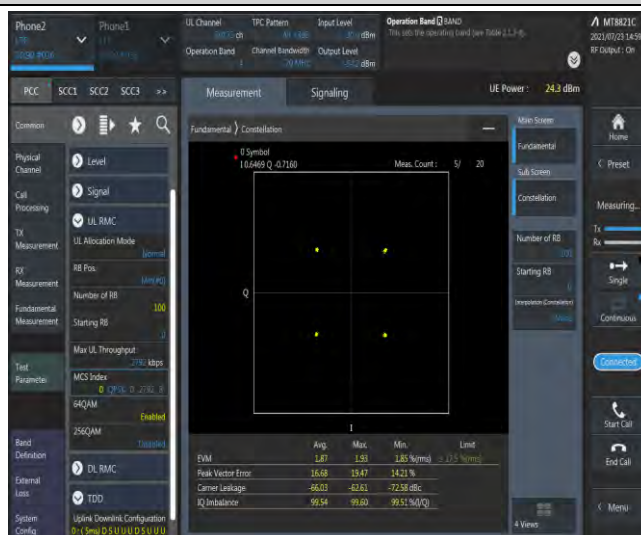
Modulation Characteristics

Test Result

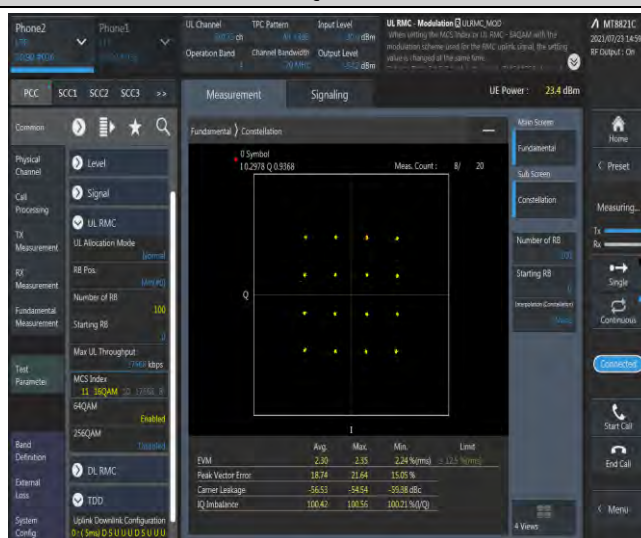
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS

Test Graphs

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



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.097	1.308	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.102	1.296	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.1	1.323	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1	1.317	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.308	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.09	1.290	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.695	2.964	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.988	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.699	2.970	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.694	2.994	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.695	3.000	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.694	3.000	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.488	4.950	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.47	4.940	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.483	4.940	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.47	4.890	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.475	4.950	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.483	4.950	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.927	9.800	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.917	9.700	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.916	9.700	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.933	9.680	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.915	9.660	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.928	9.700	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.455	14.880	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.414	14.700	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.41	14.730	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.44	14.820	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.409	14.670	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.43	14.700	PASS



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Band4	20MHz	QPSK	20050	100RB#0	17.854	19.320	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.819	19.440	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.861	19.320	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.865	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.811	19.320	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.863	19.520	PASS



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Test Graphs

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



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



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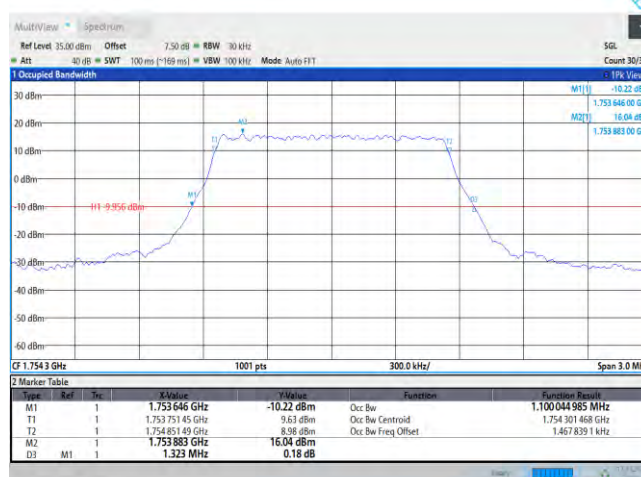
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Band4-1.4MHz-16QAM-19957-6RB#0



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



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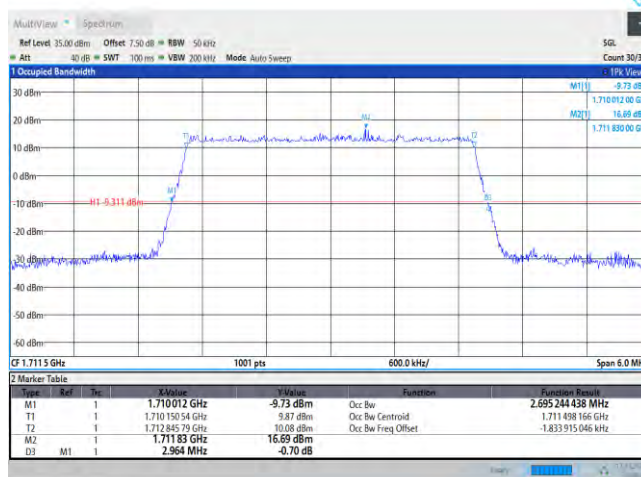
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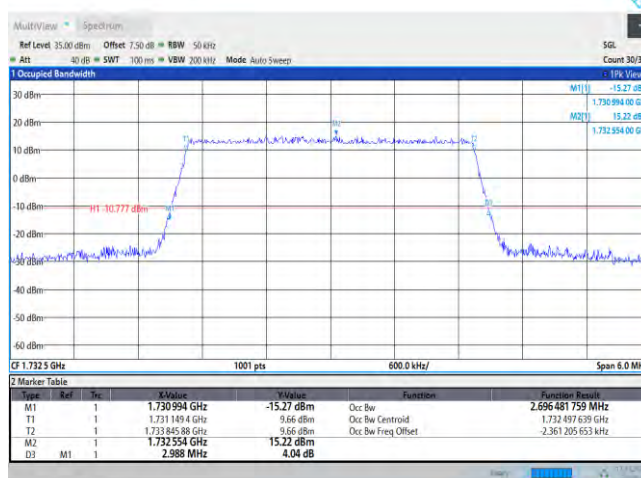
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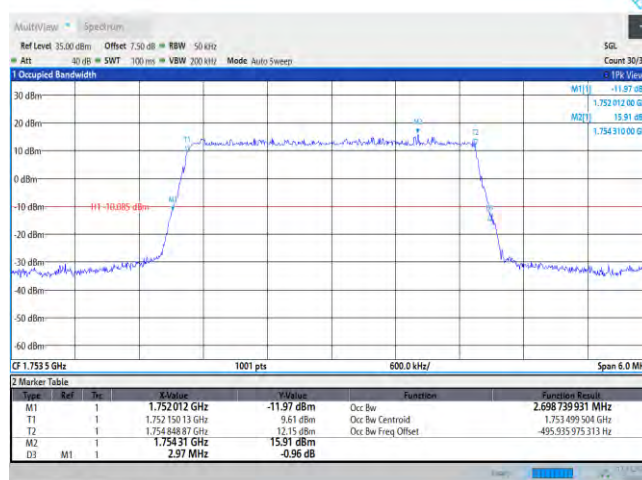


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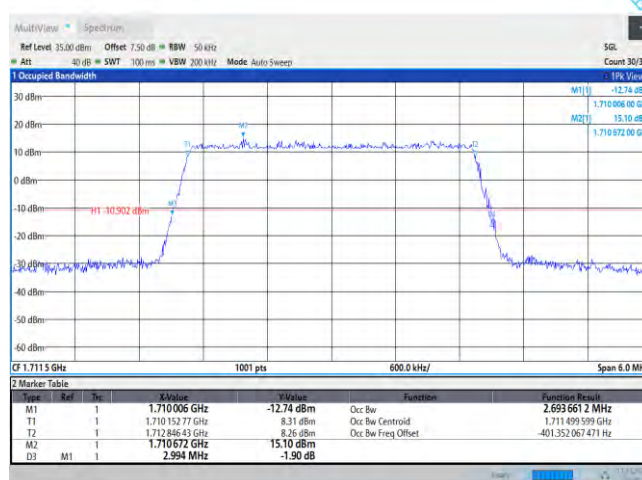
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Band4-3MHz-QPSK-20385-15RB#0



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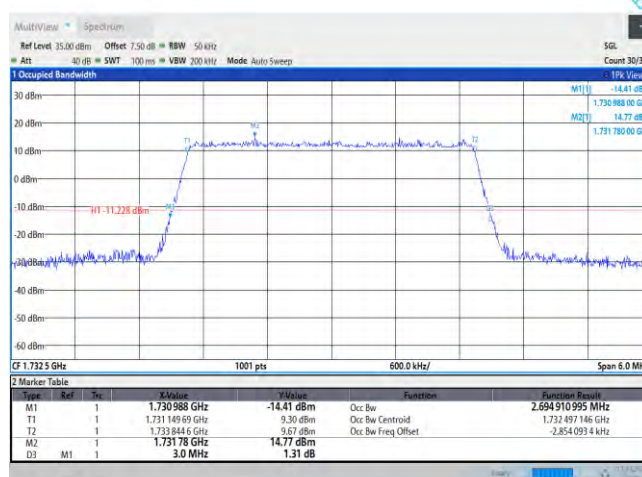


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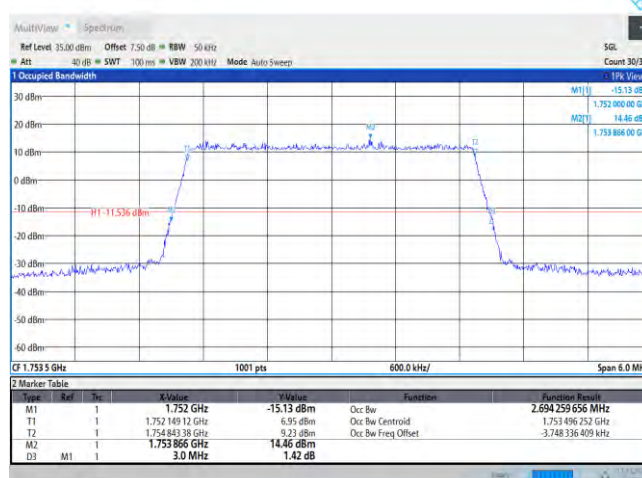
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Band4-3MHz-16QAM-20385-15RB#0



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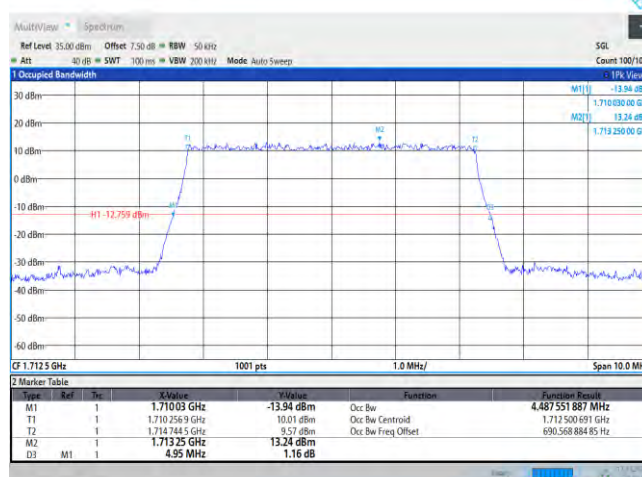


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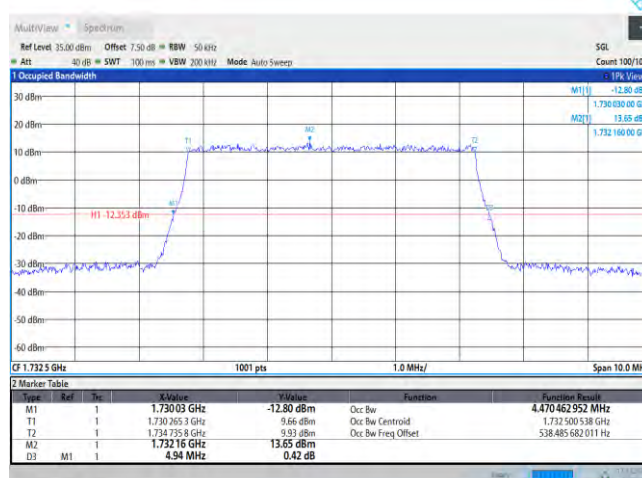
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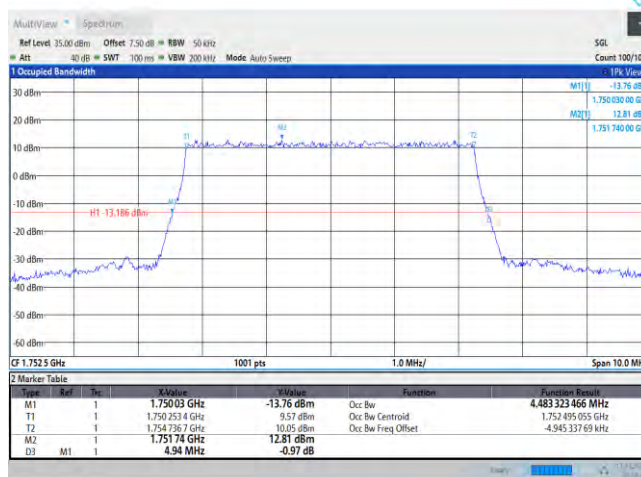
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Band4-5MHz-16QAM-19975-25RB#0



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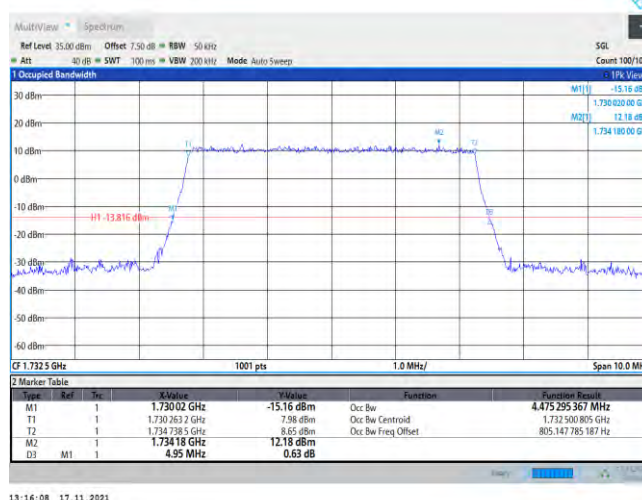
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Band4-5MHz-16QAM-20375-25RB#0



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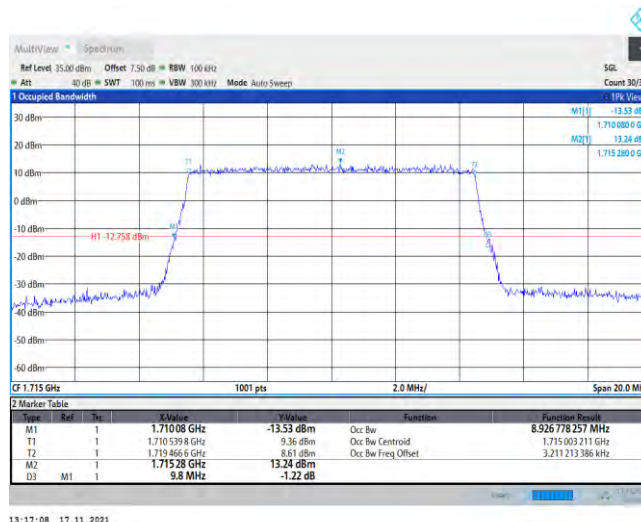
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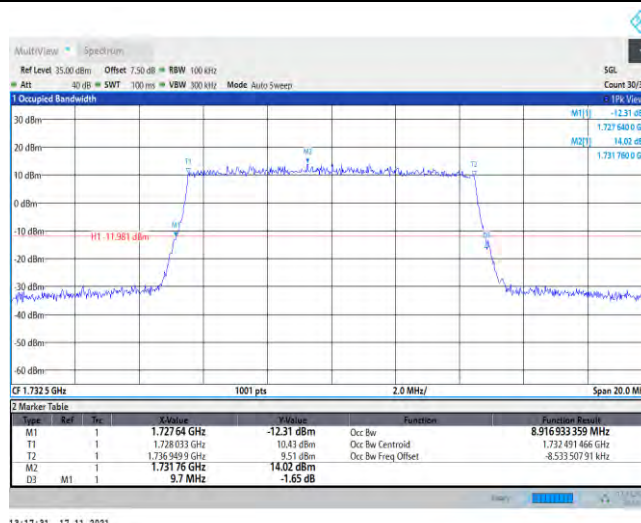
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Band4-10MHz-QPSK-20175-50RB#0



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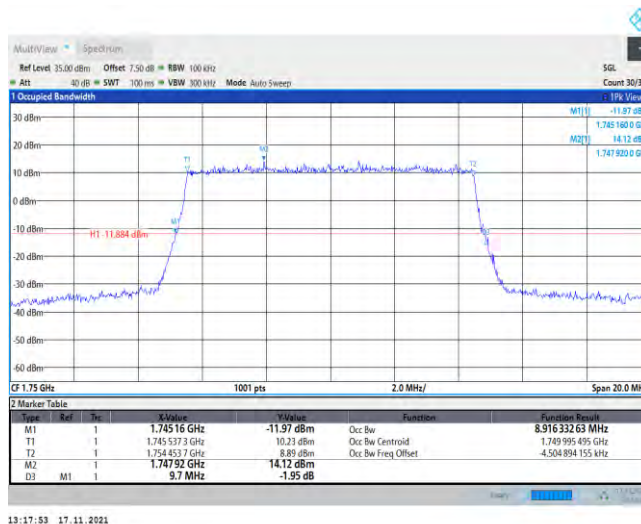
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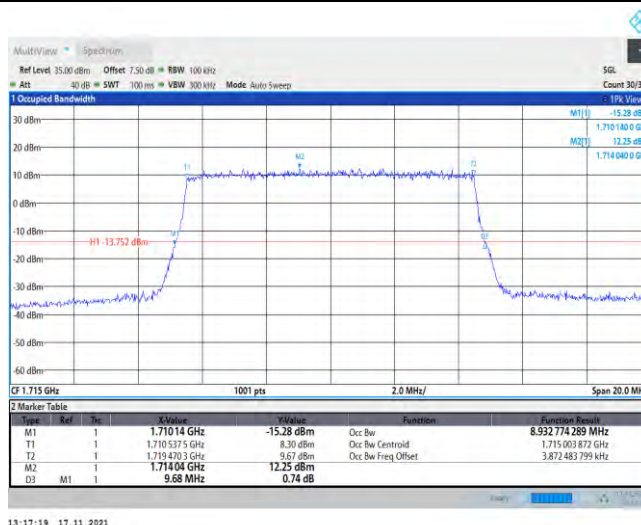
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Band4-10MHz-QPSK-20350-50RB#0



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



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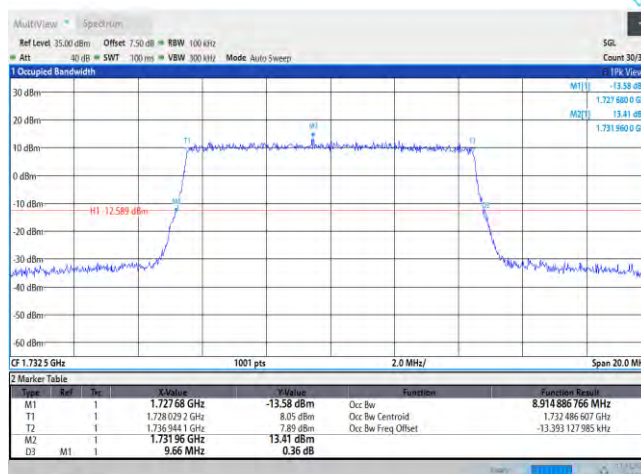


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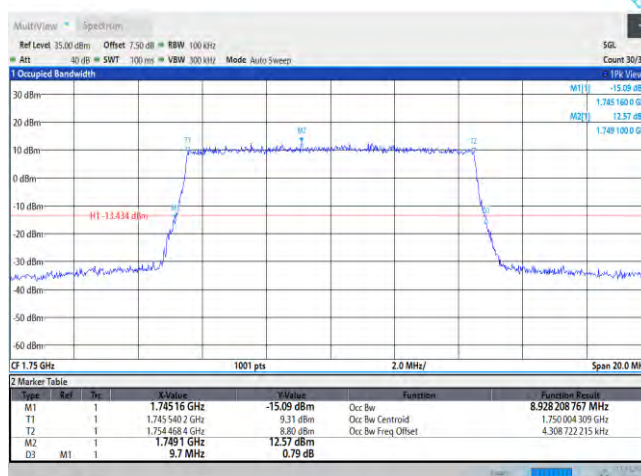
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Band4-10MHz-16QAM-20350-50RB#0



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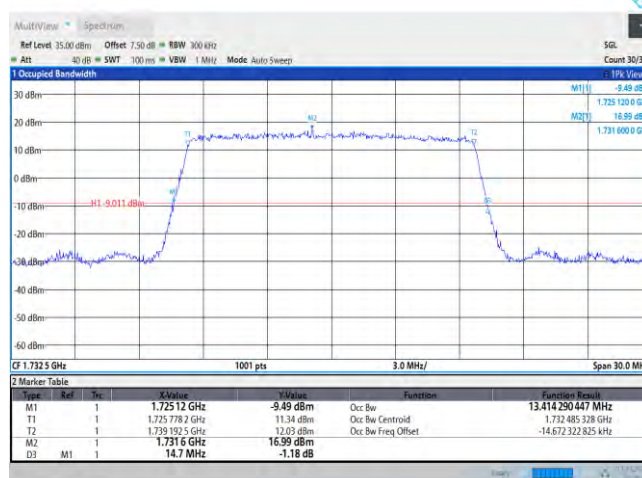
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Band4-15MHz-QPSK-20025-75RB#0



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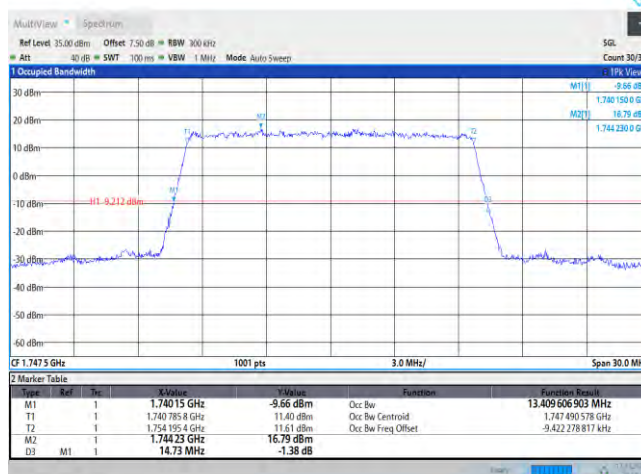
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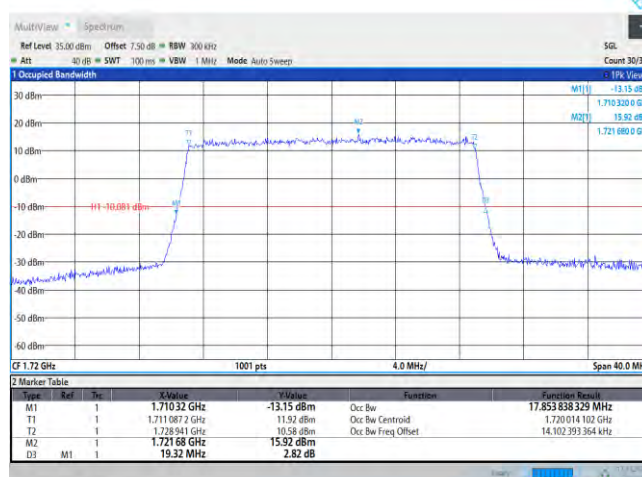
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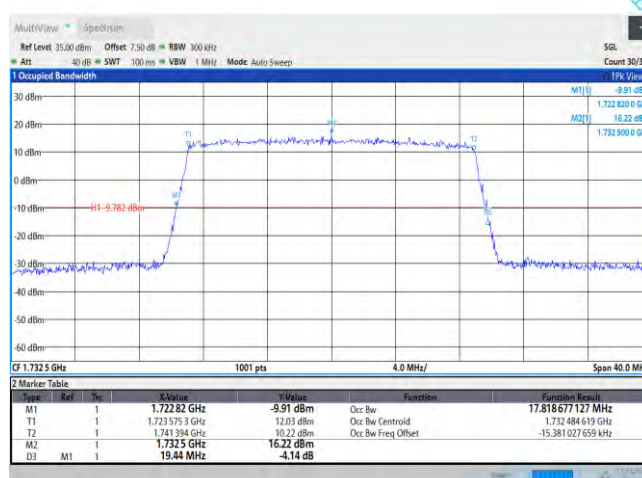
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Band4-20MHz-QPSK-20050-100RB#0



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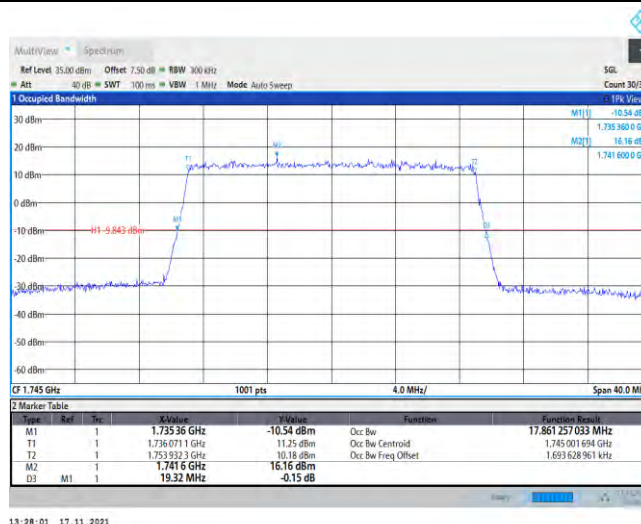
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Band4-20MHz-QPSK-20300-100RB#0



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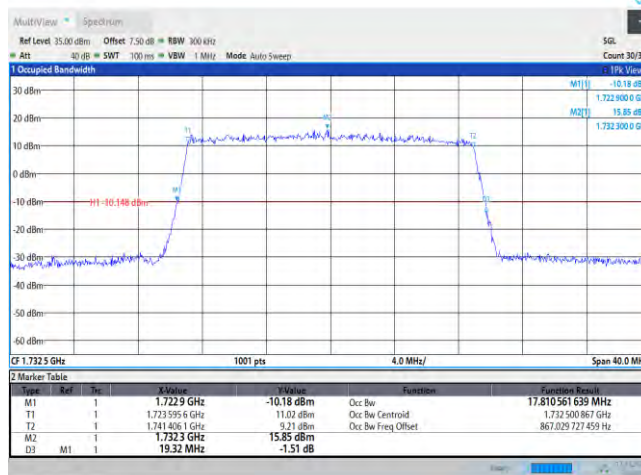


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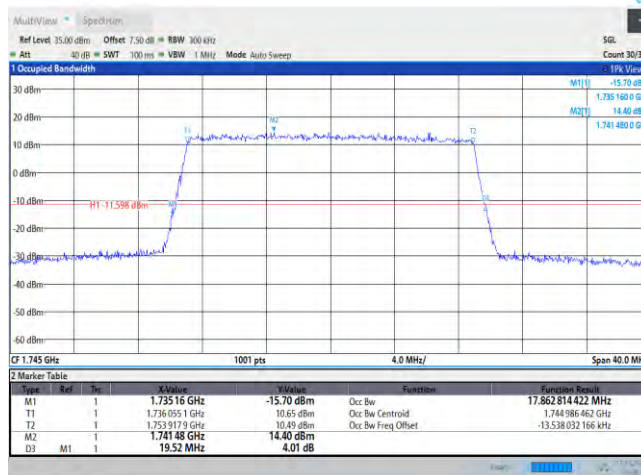
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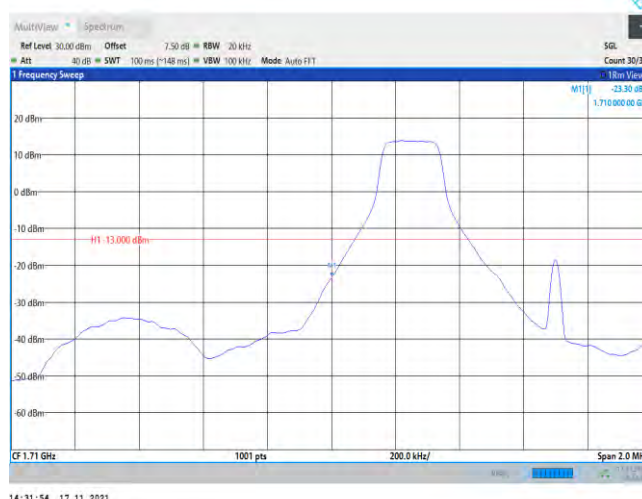
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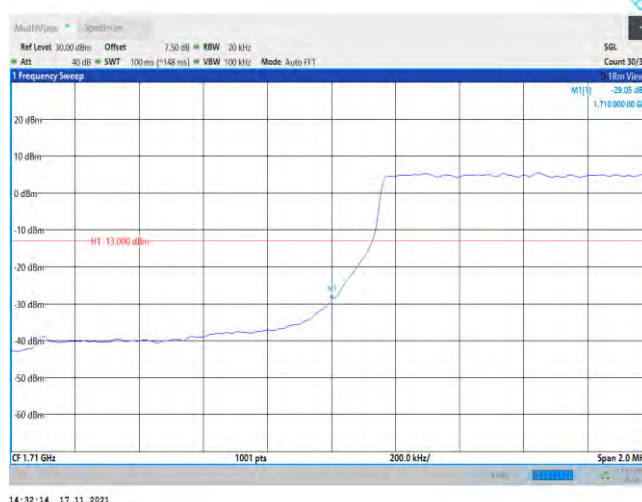
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Test Graphs

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



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



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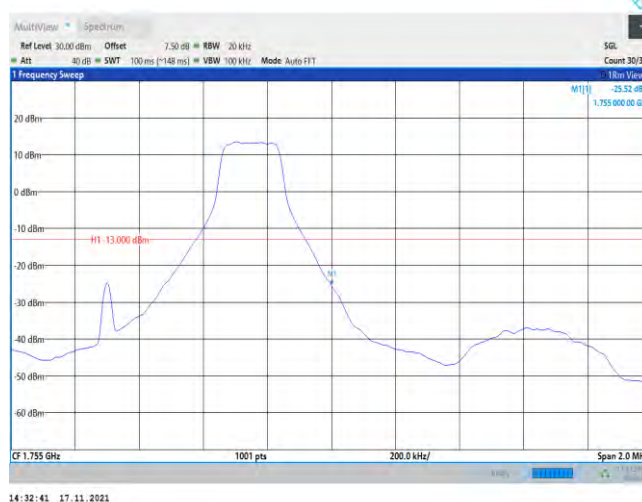
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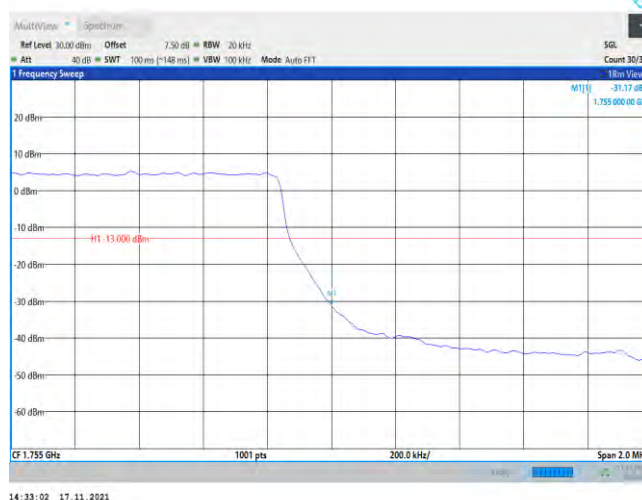
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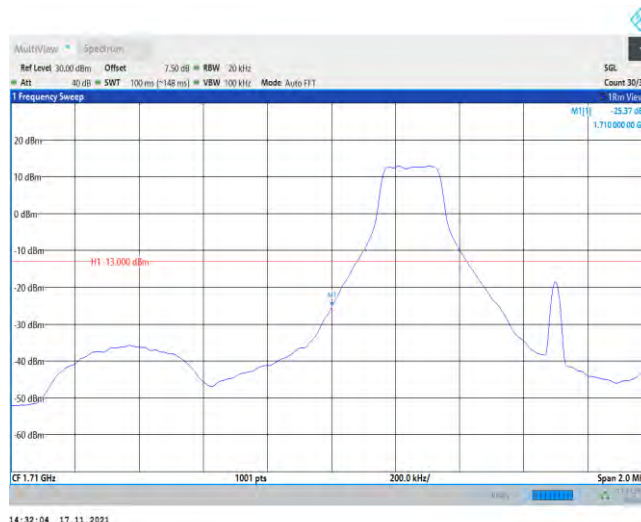
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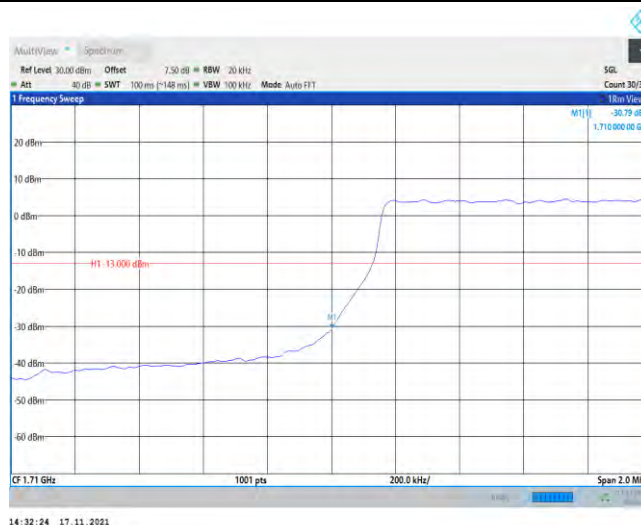
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Band4-1.4MHz-16QAM-19957-1RB#0



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



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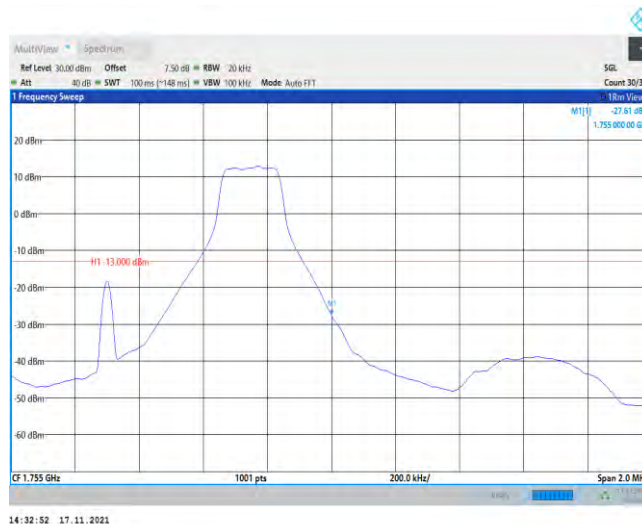
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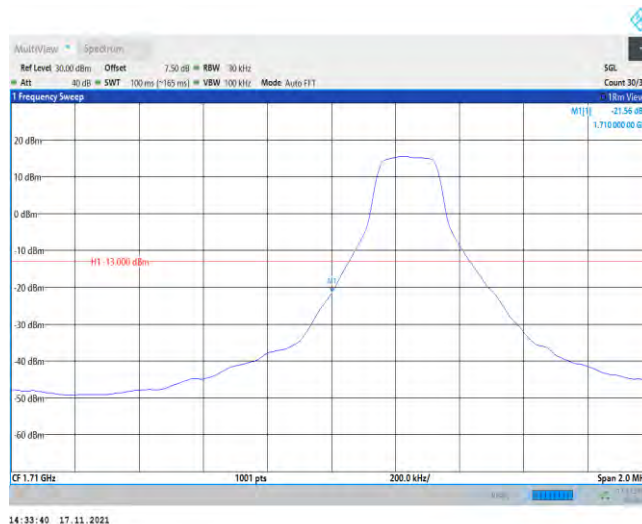


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Band4-3MHz-QPSK-19965-15RB#0



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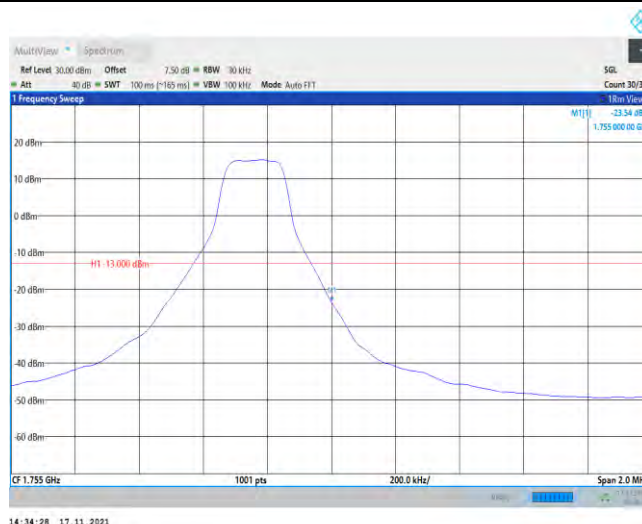
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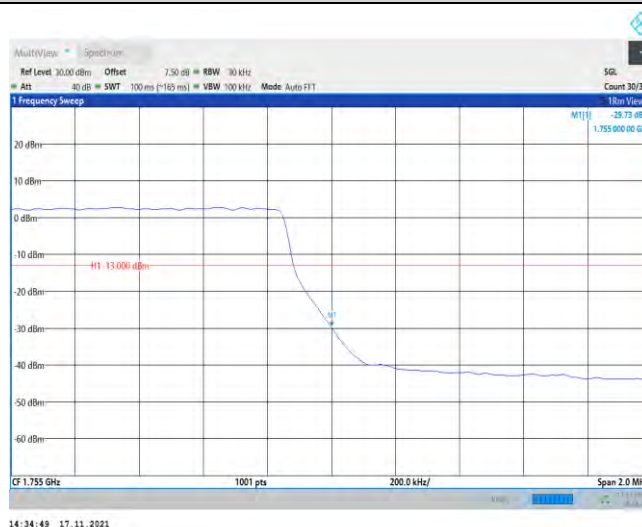
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Band4-3MHz-QPSK-20385-1RB#14



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



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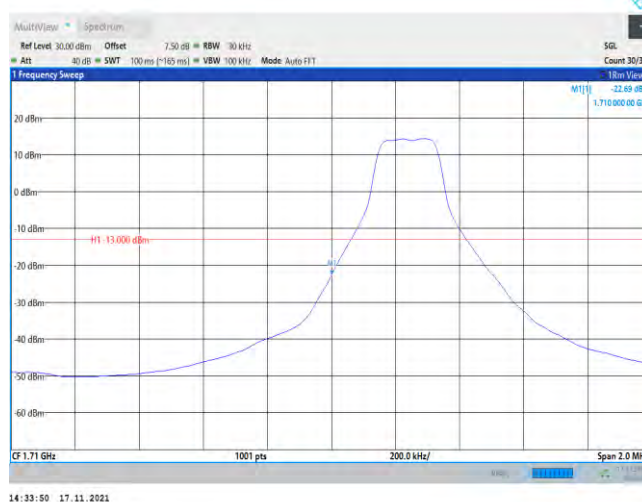
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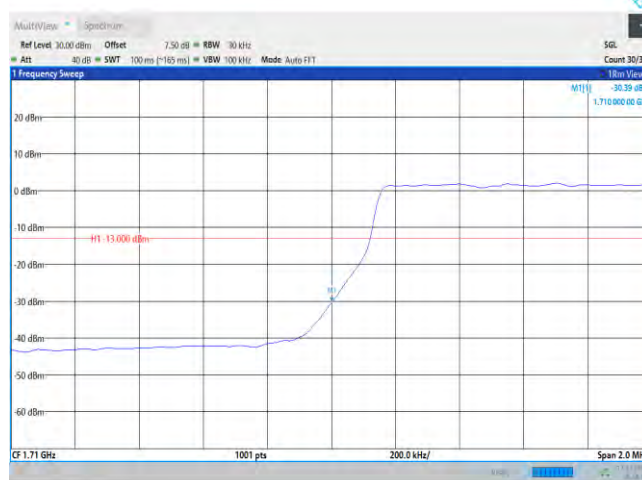
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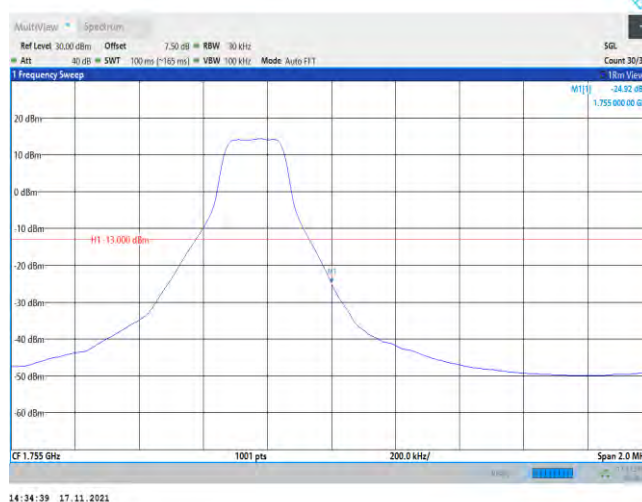
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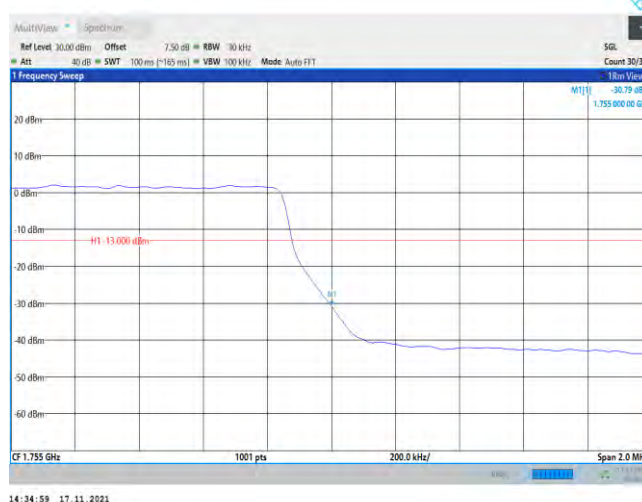
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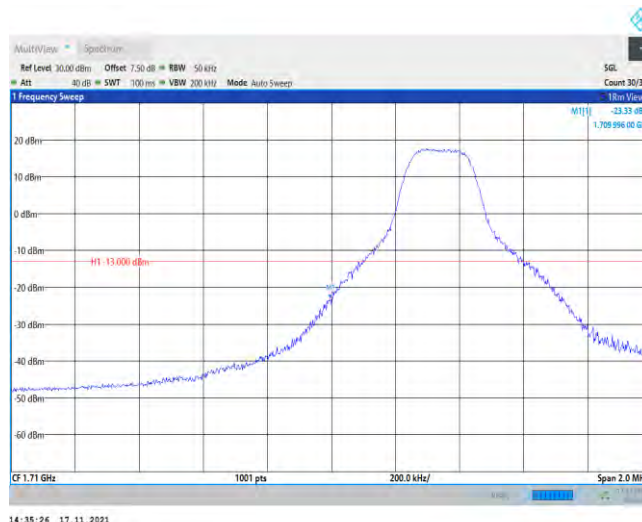
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Band4-5MHz-QPSK-19975-25RB#0



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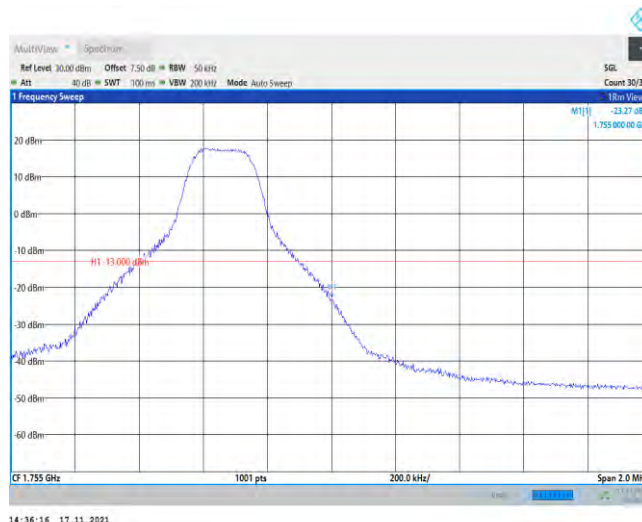


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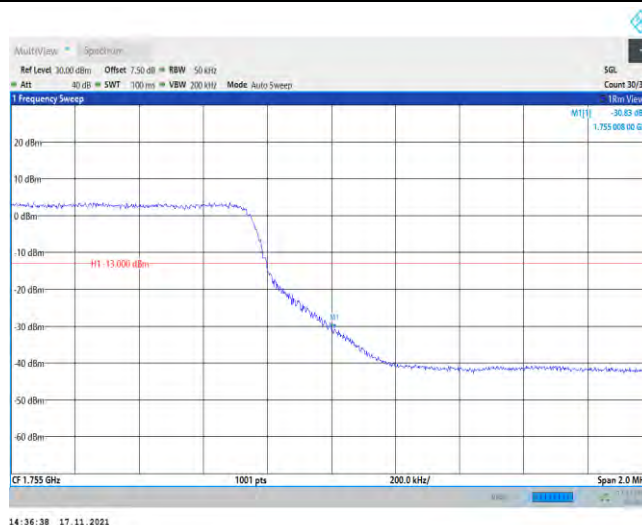
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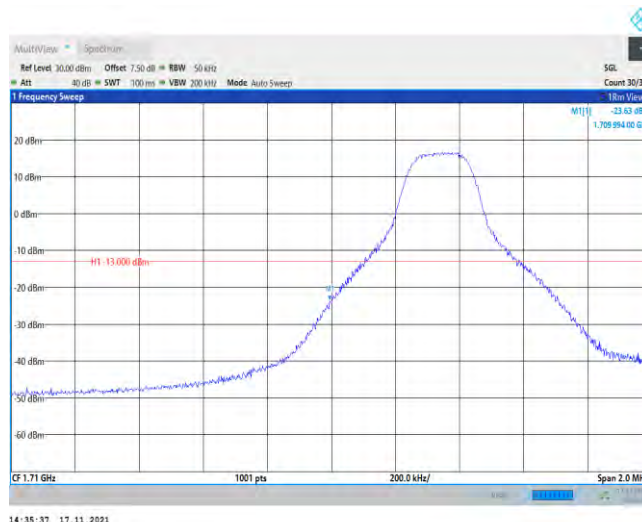
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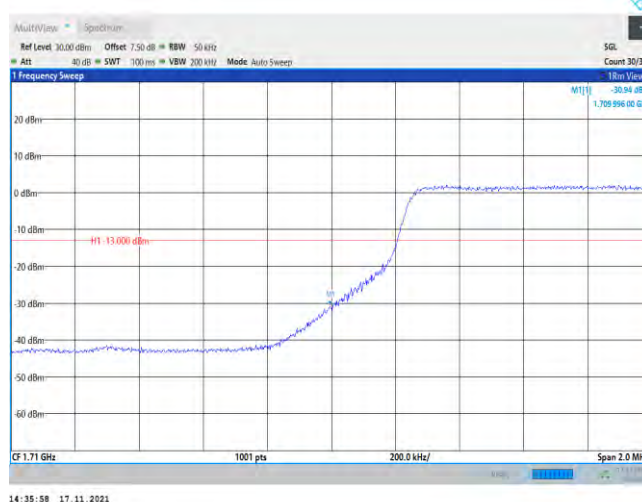
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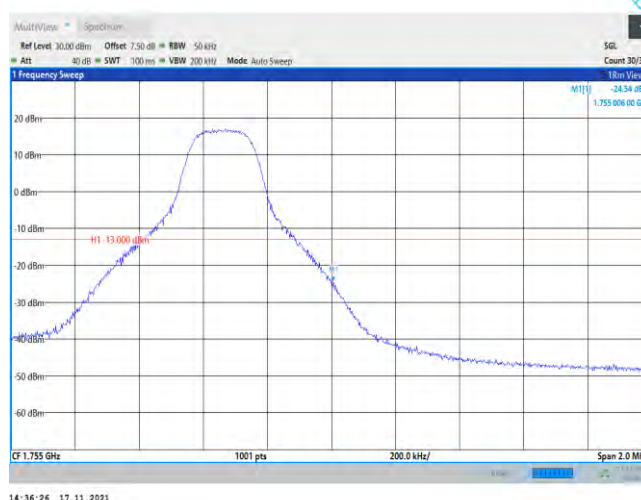


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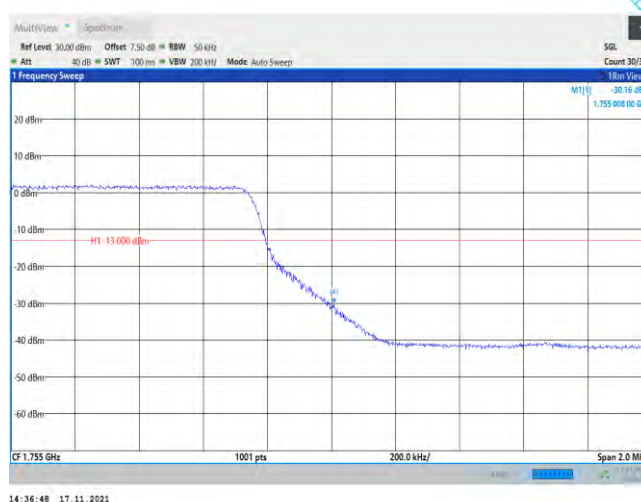
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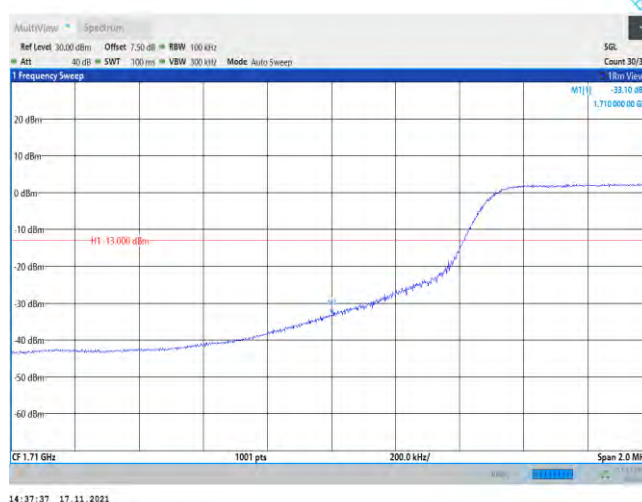
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Band4-10MHz-QPSK-20000-1RB#0



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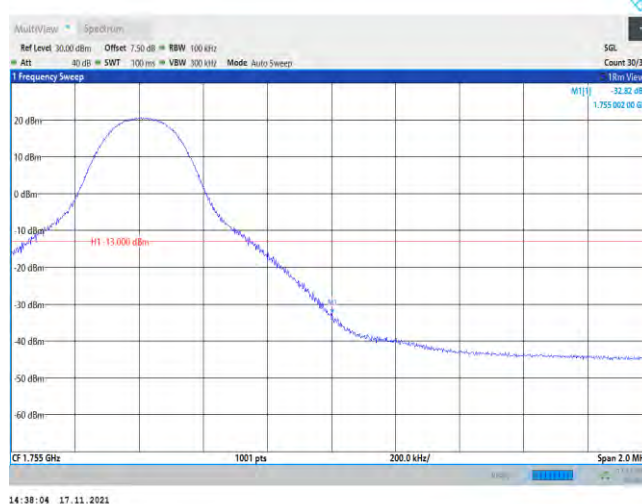
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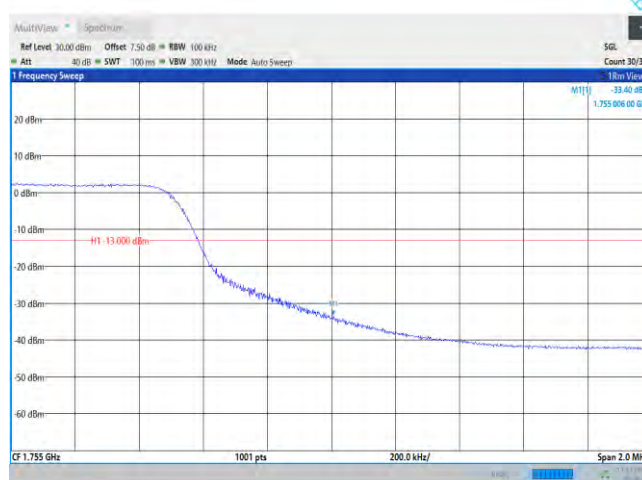
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Band4-10MHz-QPSK-20350-50RB#0



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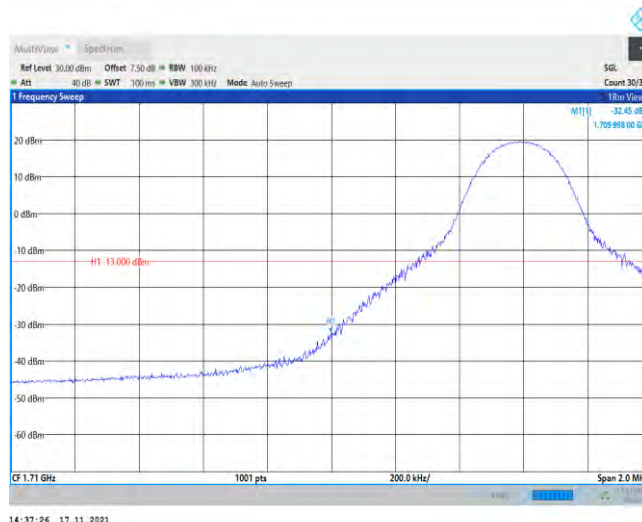
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Band4-10MHz-16QAM-20000-1RB#0



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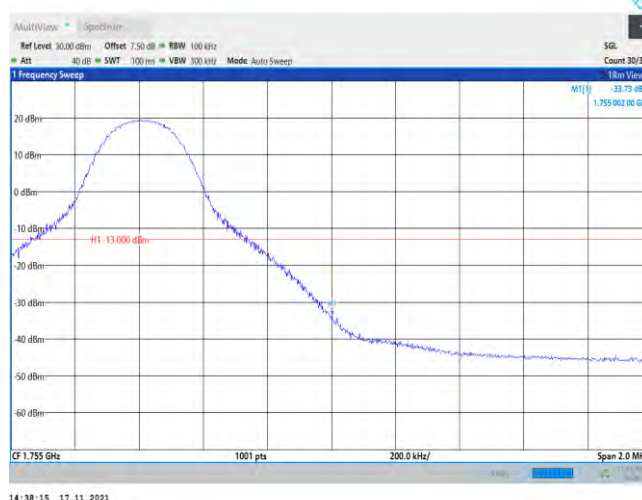


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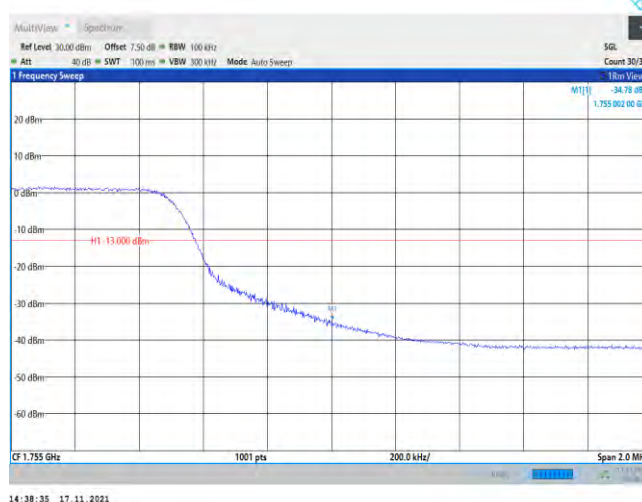
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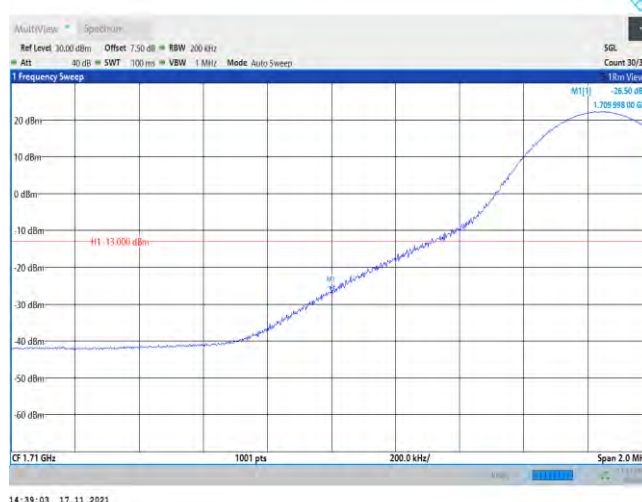


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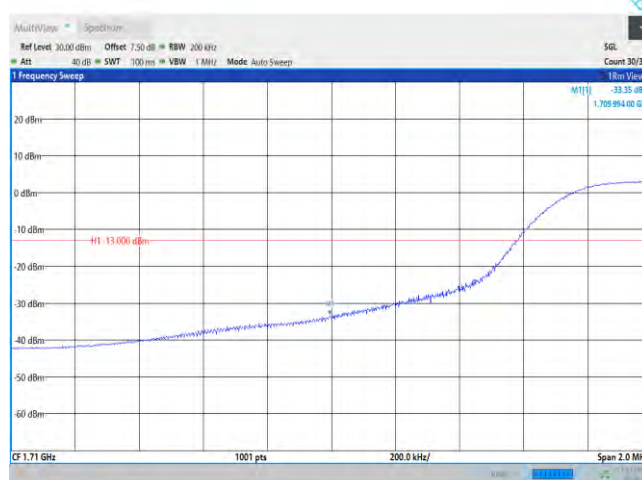
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Band4-15MHz-QPSK-20025-1RB#0



14:39:03 17.11.2021

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



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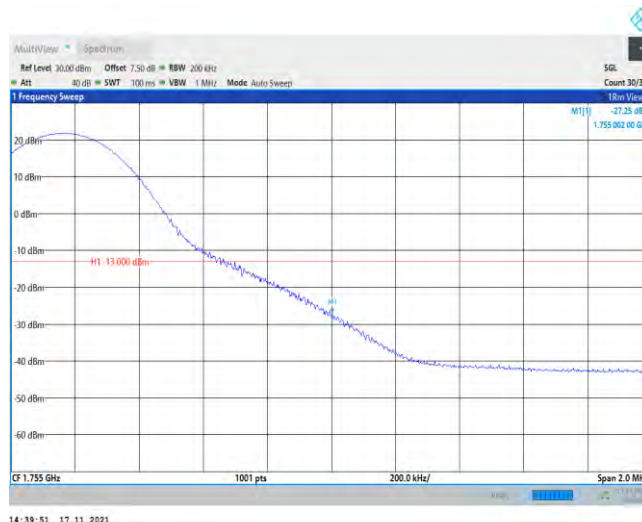
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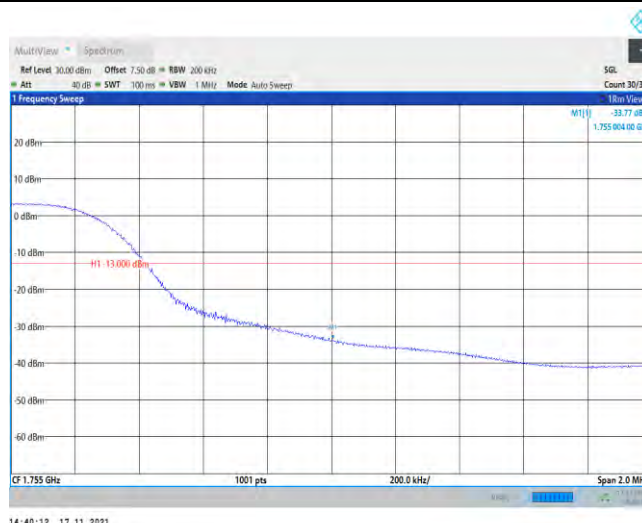
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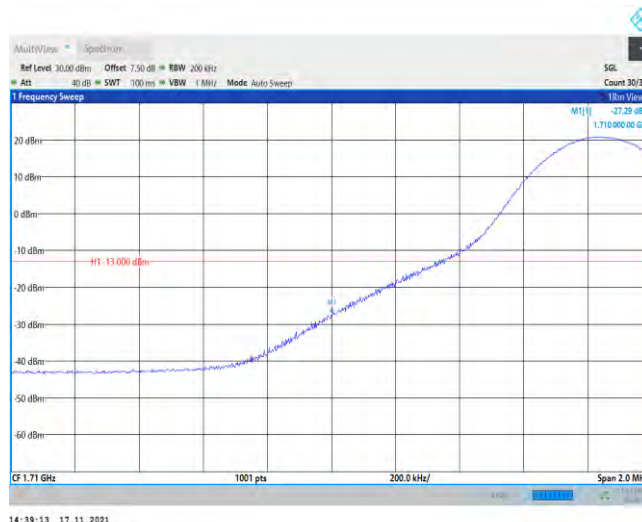
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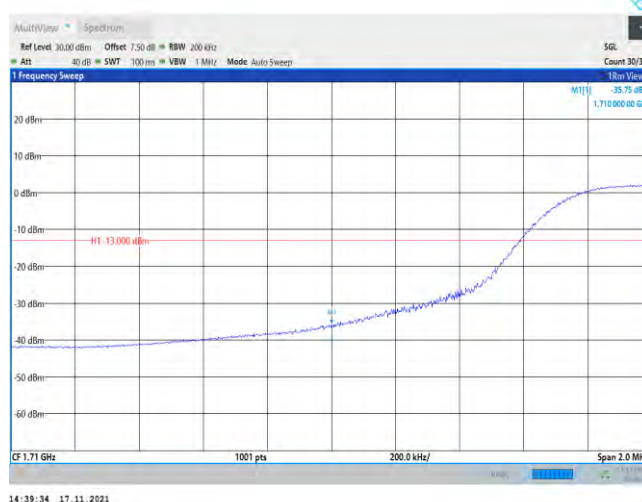
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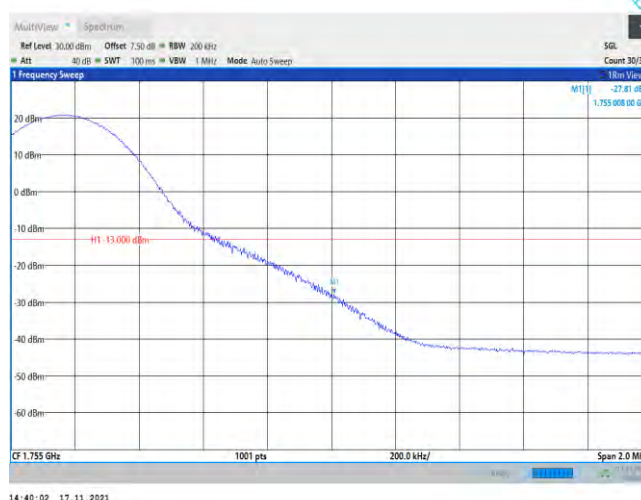
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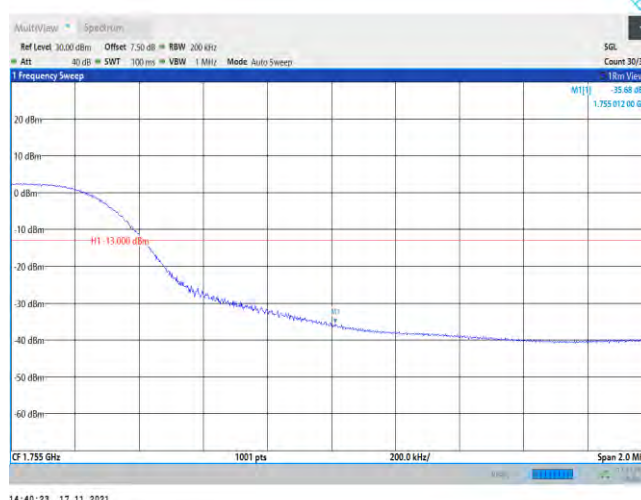
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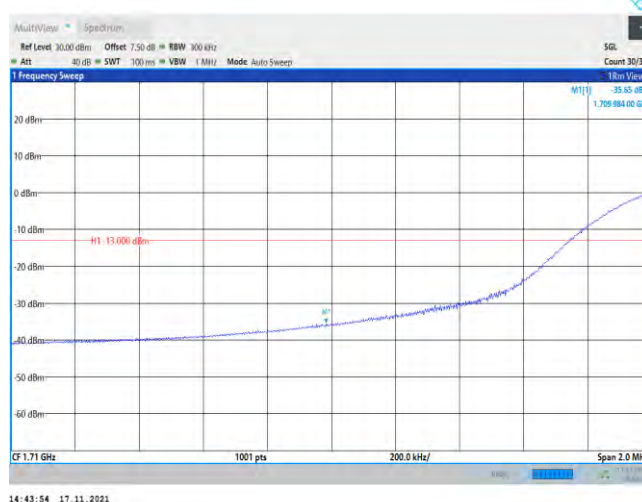
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Band4-20MHz-QPSK-20050-100RB#0



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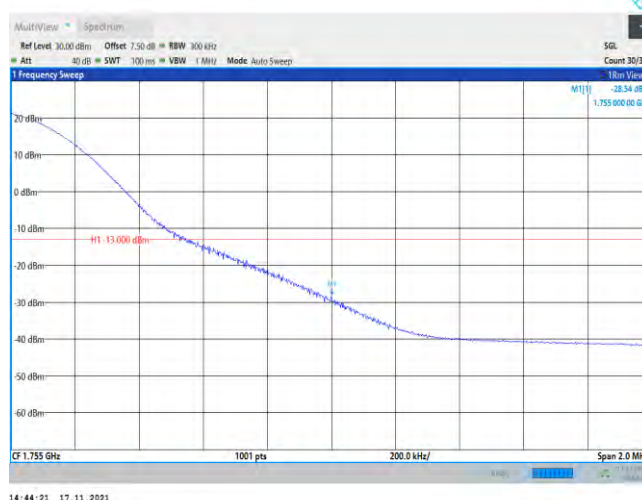


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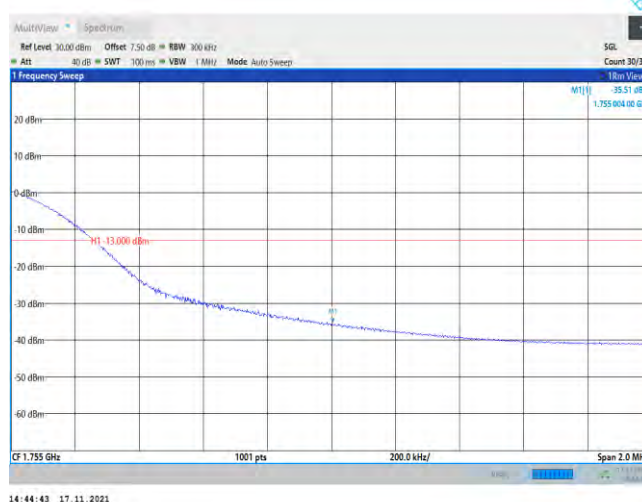
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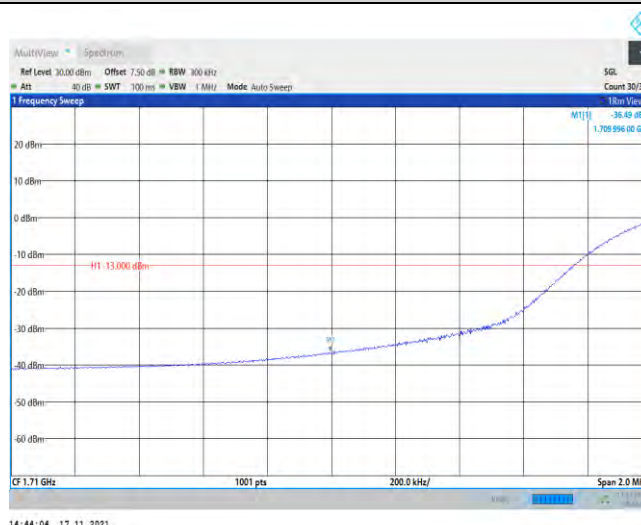
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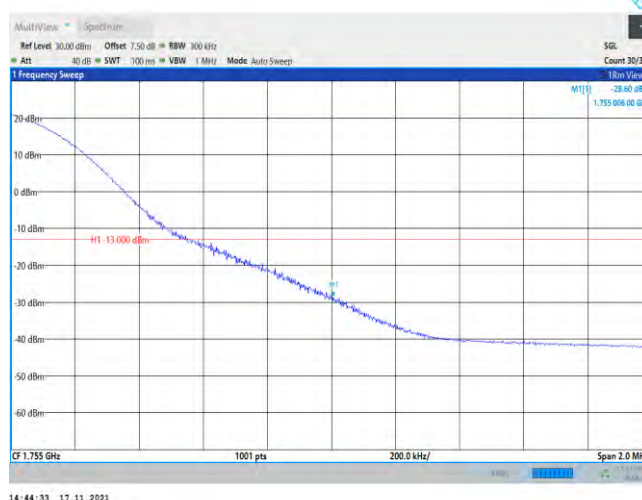
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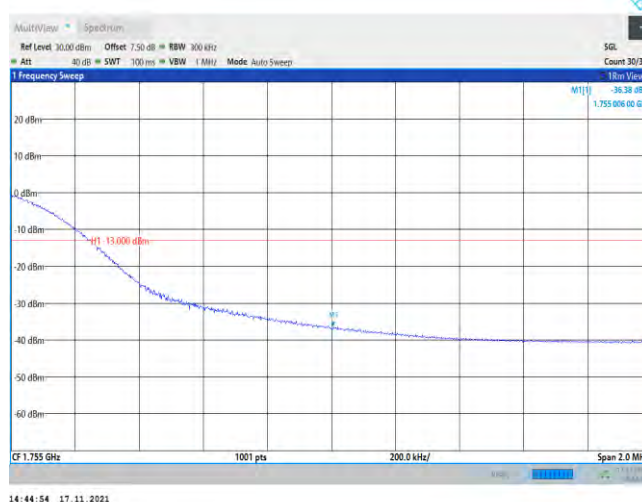
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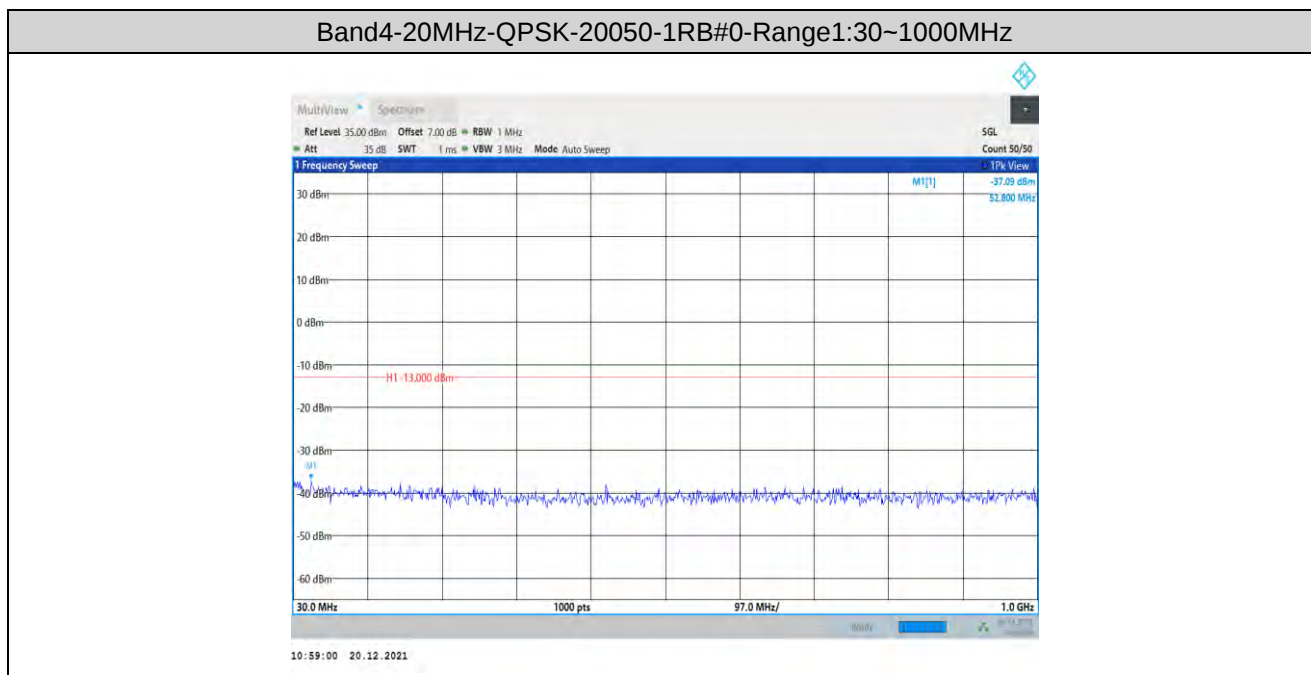
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Conducted Spurious Emission

Test Graphs



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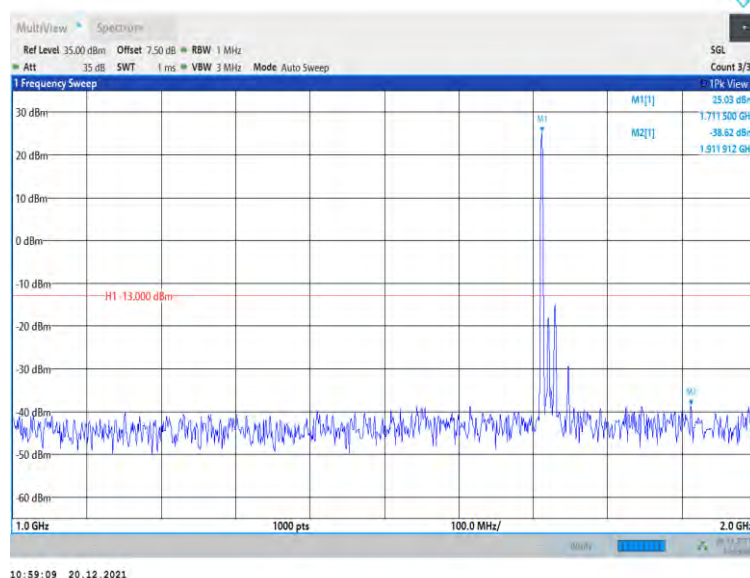
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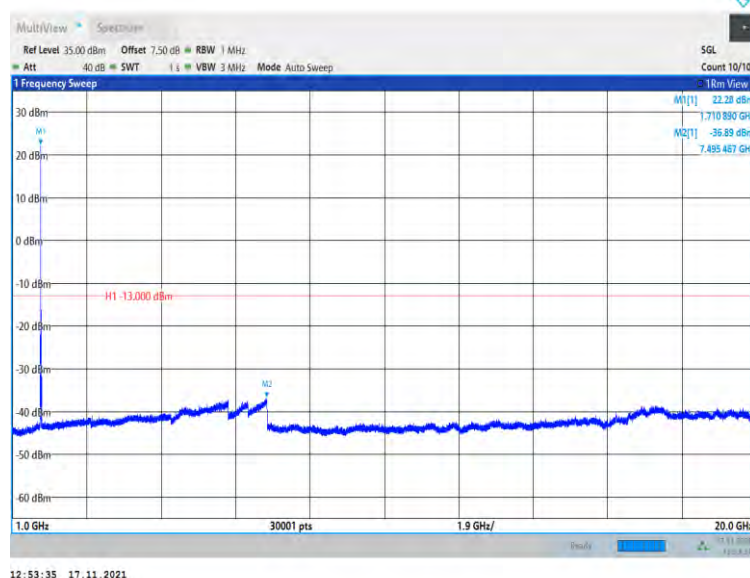
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Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~2000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~2000MHz



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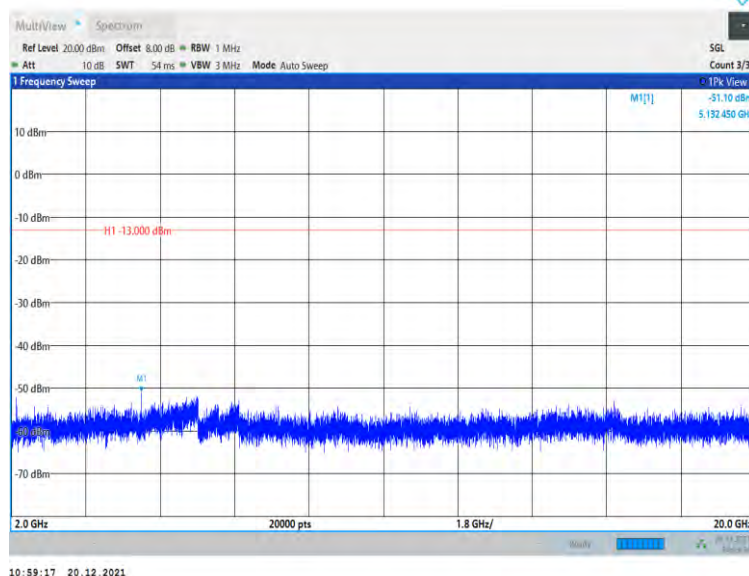
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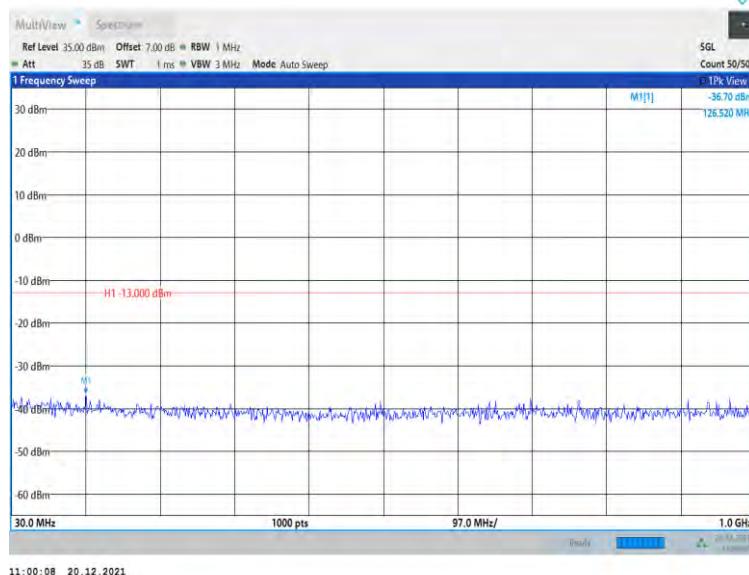
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Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



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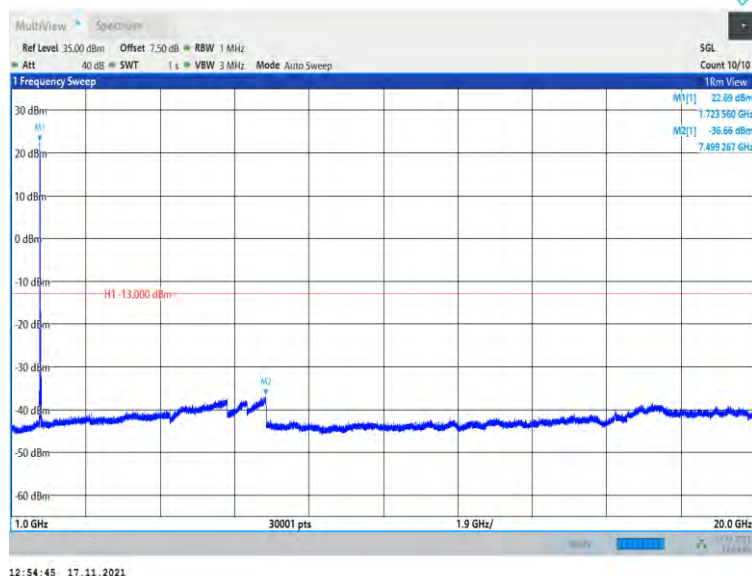


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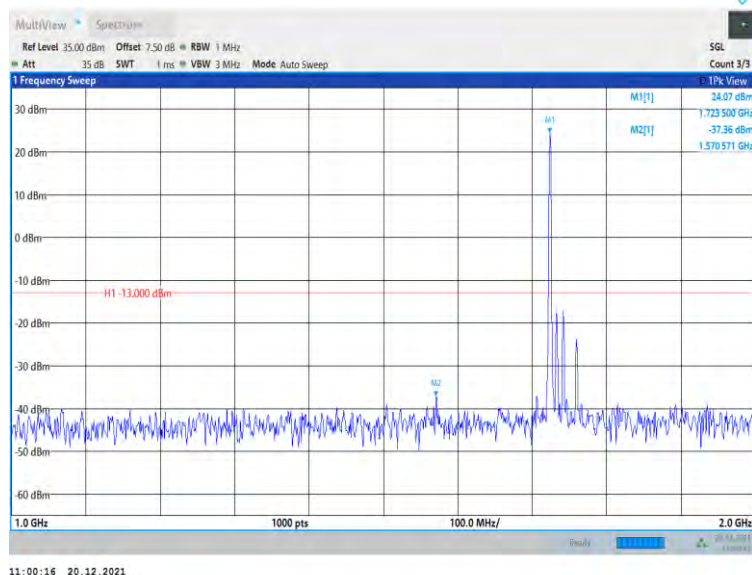
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Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~2000MHz



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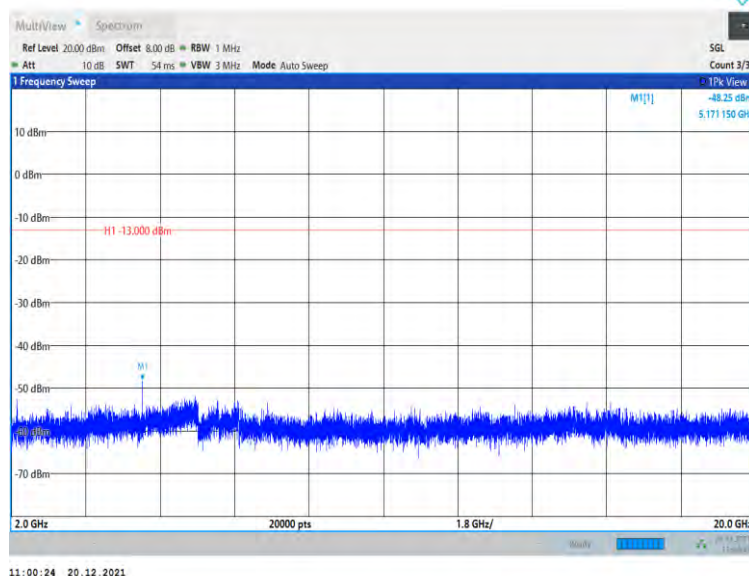
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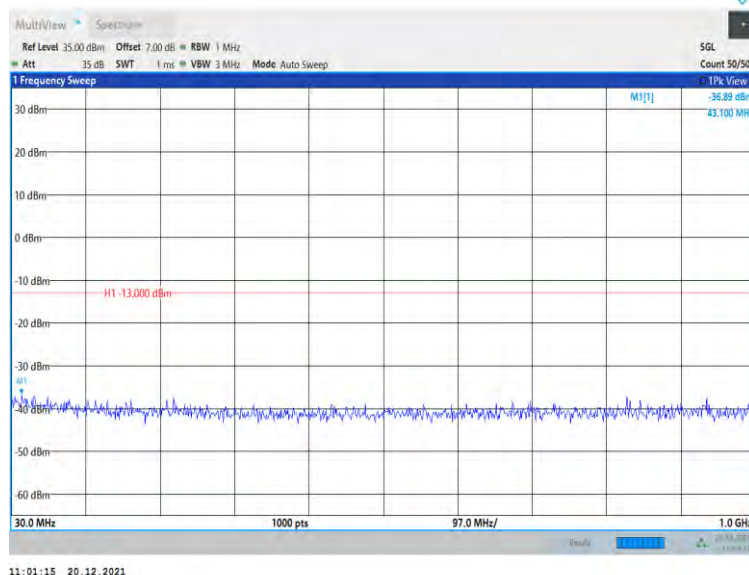
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Band4-20MHz-QPSK-20175-1RB#0-Range3:2000~20000MHz



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



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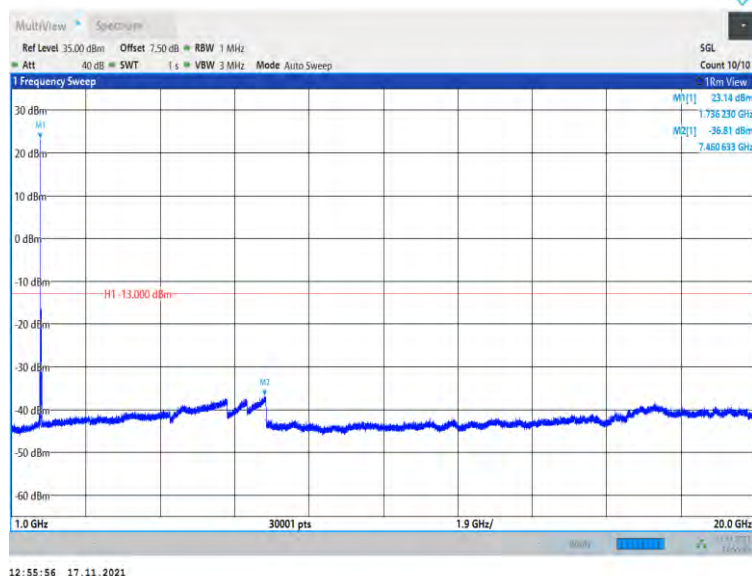
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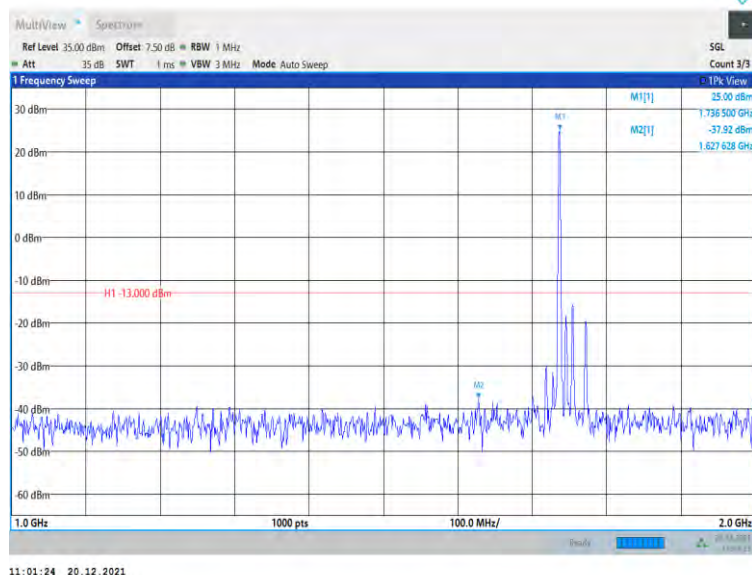
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Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~2000MHz



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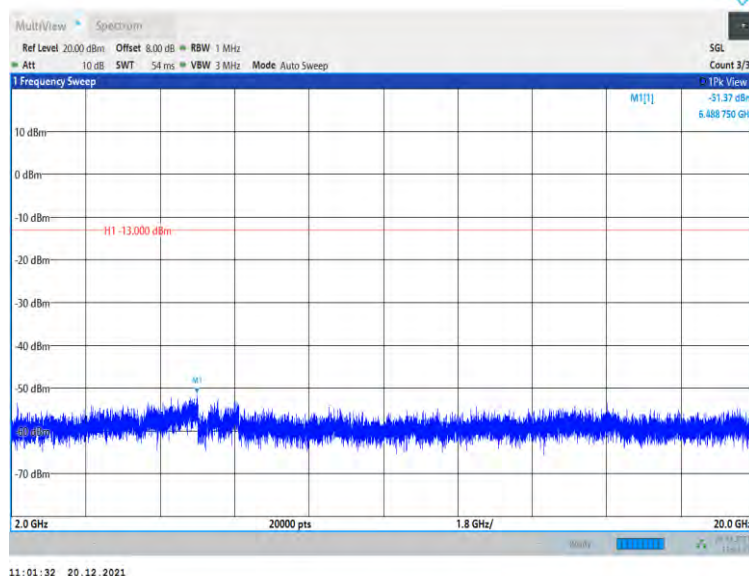


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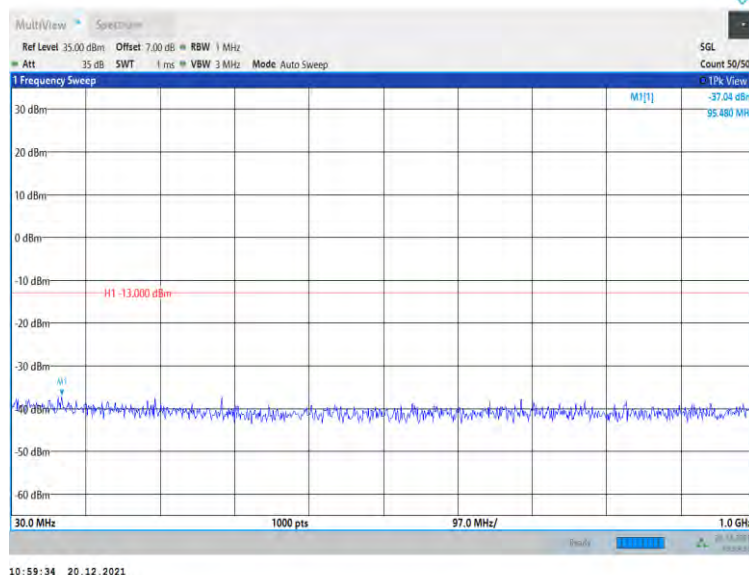
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Band4-20MHz-QPSK-20300-1RB#0-Range3:2000~20000MHz



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



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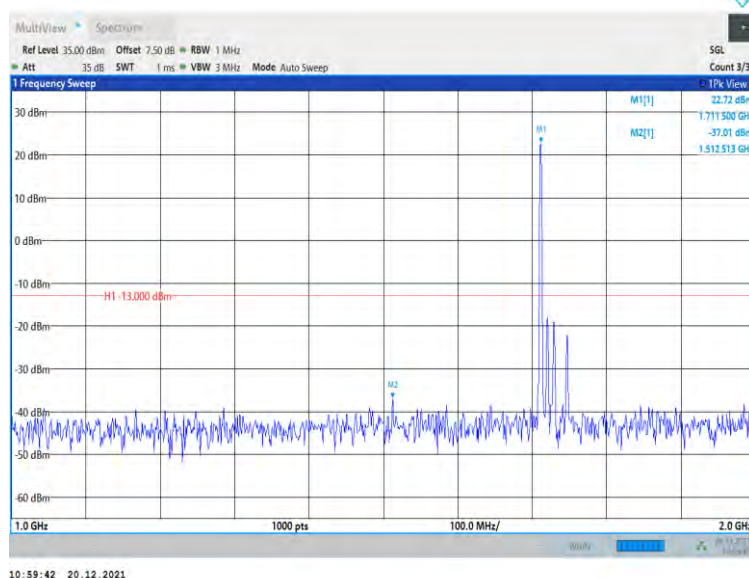
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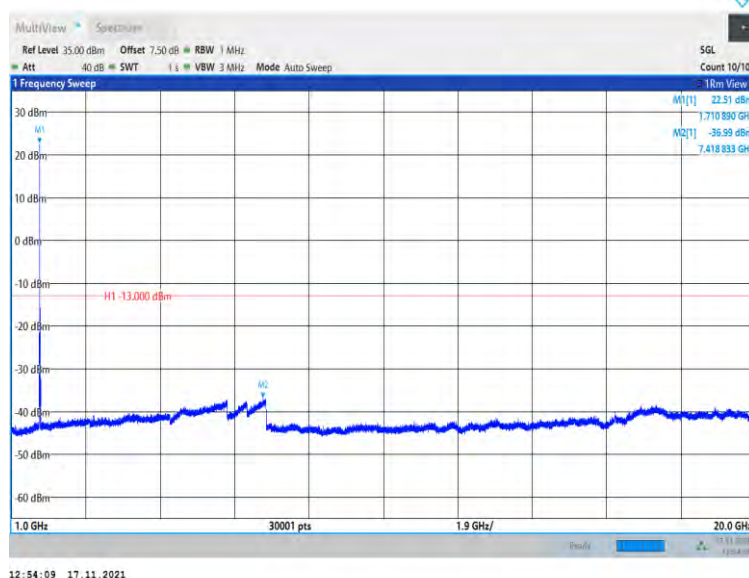
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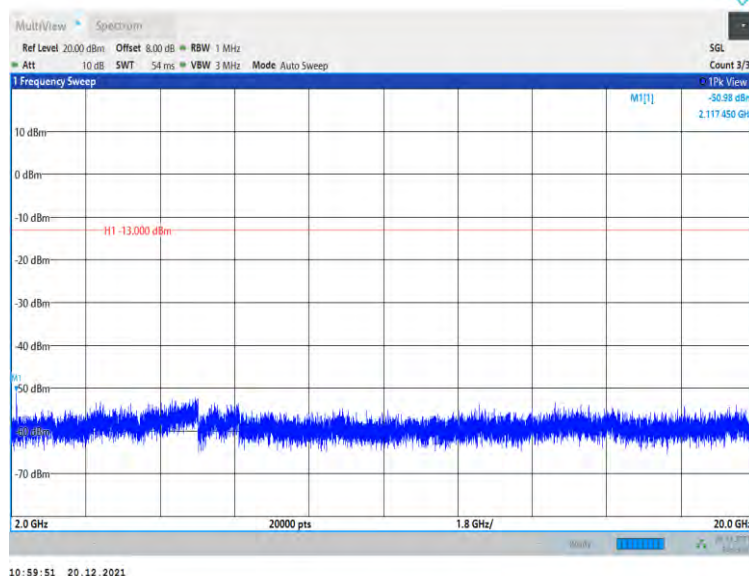
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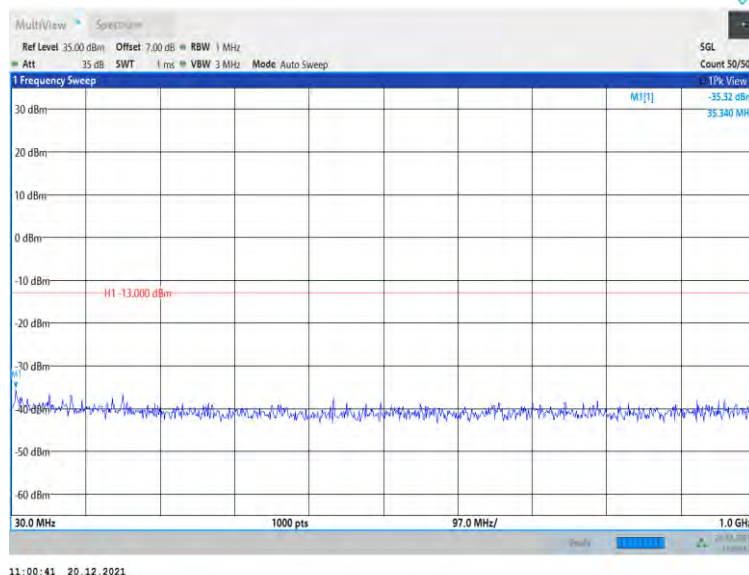
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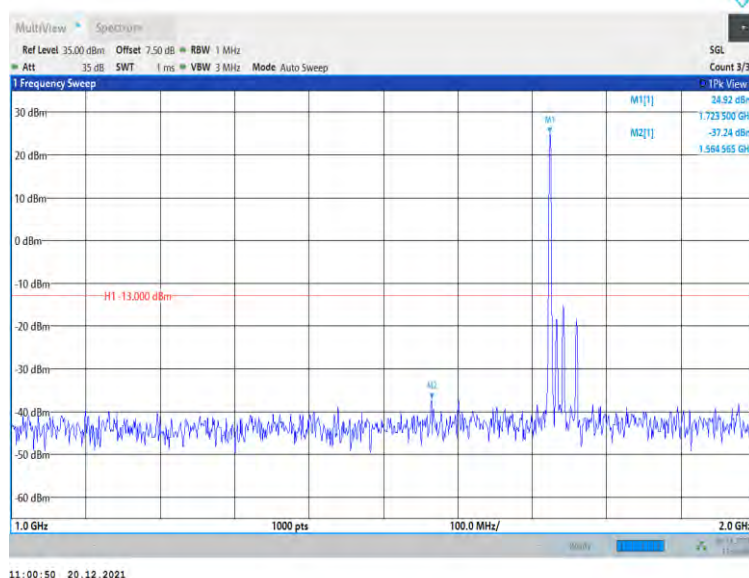
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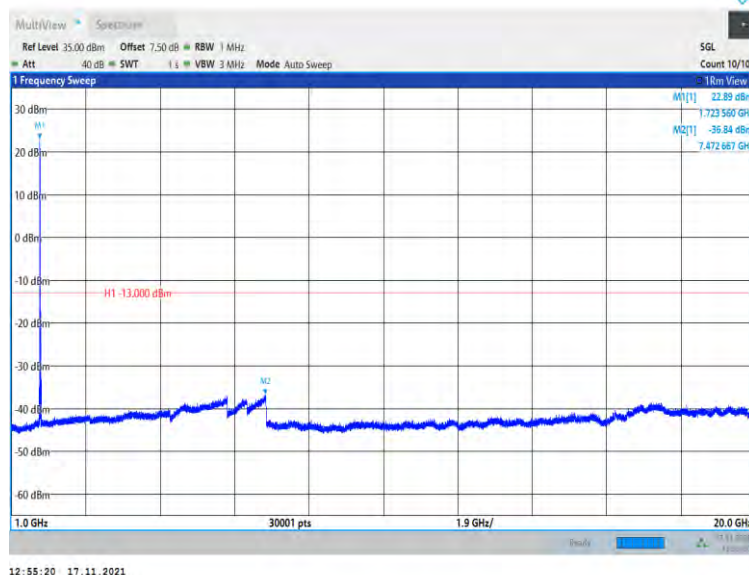
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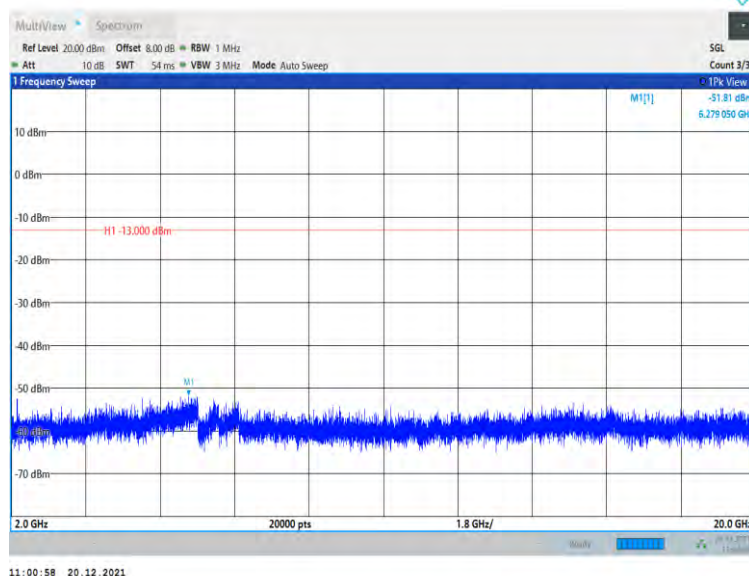
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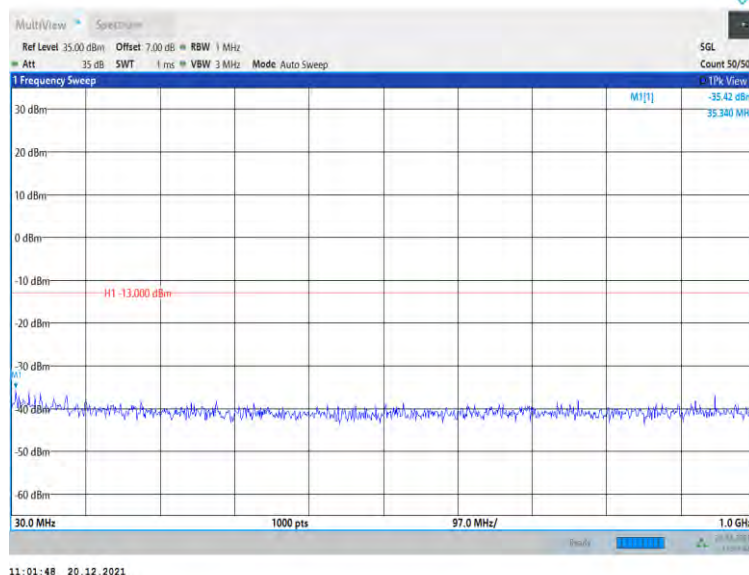
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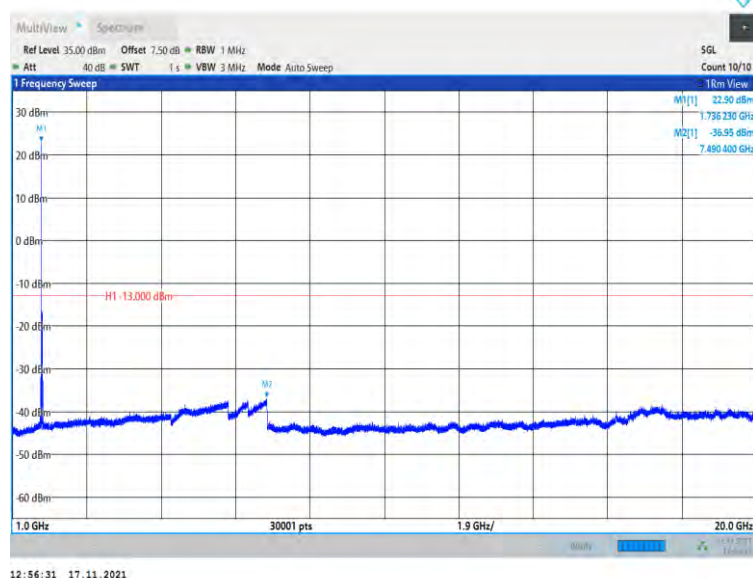
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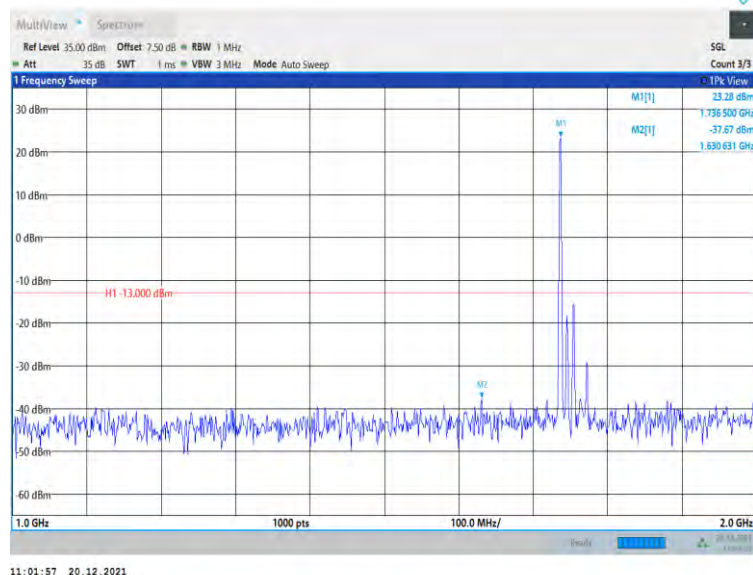
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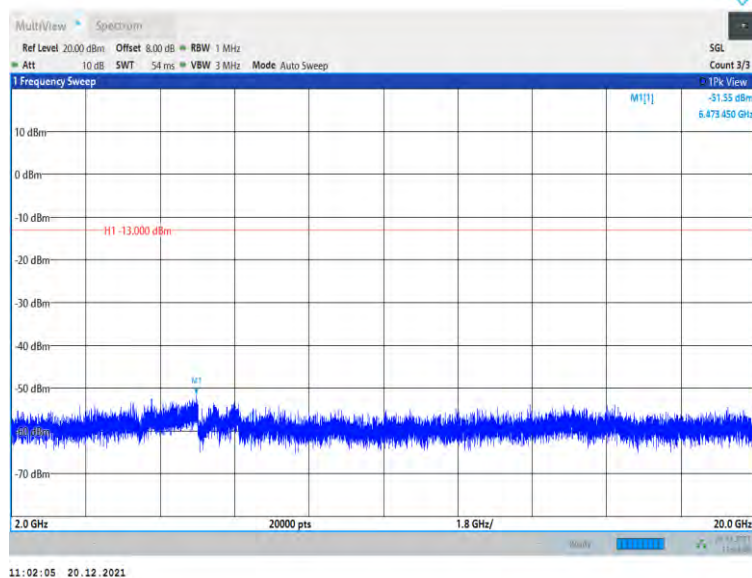
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Band4-20MHz-16QAM-20300-1RB#0-Range3:2000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_TM1
Test Channel =Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	56.72	-54.99	-13.00	41.99	168	157	Horizontal
2	5133.0000	65.61	-41.29	-13.00	28.29	196	137	Horizontal
3	6844.3600	56.78	-45.09	-13.00	32.09	125	294	Horizontal
4	8555.4500	47.45	-49.38	-13.00	36.38	324	0	Horizontal
5	10266.5400	44.40	-48.80	-13.00	35.80	256	344	Horizontal
6	11977.6300	43.19	-48.76	-13.00	35.76	125	32	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	60.78	-50.93	-13.00	37.93	268	85	Vertical
2	5133.0000	67.57	-39.33	-13.00	26.33	169	168	Vertical
3	6844.3600	59.29	-42.58	-13.00	29.58	325	326	Vertical
4	8555.4500	46.70	-50.13	-13.00	37.13	186	355	Vertical
5	10266.5400	43.07	-50.13	-13.00	37.13	285	140	Vertical
6	11977.6300	41.73	-50.22	-13.00	37.22	153	189	Vertical



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Test Band = LTE Band 4_TM1
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.0000	57.08	-54.58	-13.00	41.58	168	189	Horizontal
2	5170.5000	64.62	-42.23	-13.00	29.23	196	139	Horizontal
3	6894.0000	55.54	-46.17	-13.00	33.17	213	53	Horizontal
4	8617.9500	46.73	-50.09	-13.00	37.09	321	84	Horizontal
5	10341.5400	43.96	-49.10	-13.00	36.10	256	16	Horizontal
6	12116.2500	44.73	-47.01	-13.00	34.01	185	72	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.0000	62.05	-49.61	-13.00	36.61	196	22	Vertical
2	5170.7700	66.93	-39.92	-13.00	26.92	185	86	Vertical
3	6894.3600	55.76	-45.95	-13.00	32.95	201	168	Vertical
4	8617.9500	46.79	-50.03	-13.00	37.03	254	140	Vertical
5	10341.5400	42.86	-50.20	-13.00	37.20	346	22	Vertical
6	12065.1300	42.26	-49.59	-13.00	36.59	198	5	Vertical



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Test Band = LTE Band 4_TM1
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3471.7500	60.40	-51.21	-13.00	38.21	185	183	Horizontal
2	5208.0000	61.24	-45.56	-13.00	32.56	163	151	Horizontal
3	6944.2500	56.40	-45.27	-13.00	32.27	246	57	Horizontal
4	8680.4500	49.42	-47.05	-13.00	34.05	235	63	Horizontal
5	10416.5400	43.89	-48.87	-13.00	35.87	196	350	Horizontal
6	12152.6300	42.82	-48.91	-13.00	35.91	146	19	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3471.7500	64.31	-47.30	-13.00	34.30	186	20	Vertical
2	5208.0000	63.67	-43.13	-13.00	30.13	149	14	Vertical
3	6944.2500	56.87	-44.80	-13.00	31.80	163	14	Vertical
4	8680.4500	48.89	-47.58	-13.00	34.58	196	332	Vertical
5	10416.5400	43.20	-49.56	-13.00	36.56	246	32	Vertical
6	12152.6300	42.20	-49.53	-13.00	36.53	351	86	Vertical

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	3.96	0.002302	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.88	0.002256	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	2.90	0.001686	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	3.06	0.001766	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	3.89	0.002245	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-2.52	-0.001455	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-5.34	-0.003060	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.28	-0.001880	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-4.56	-0.002613	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-1.66	-0.000965	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	3.60	0.002093	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	2.78	0.001616	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-2.30	-0.001328	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-3.10	-0.001789	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-5.12	-0.002955	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-6.12	-0.003507	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-5.54	-0.003175	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-5.88	-0.003370	PASS



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Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	4.63	0.002692	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	3.00	0.001744	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-2.76	-0.001605	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	3.59	0.002087	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	3.55	0.002064	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	1.67	0.000971	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	2.95	0.001715	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	2.82	0.001640	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	3.71	0.002141	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-3.66	-0.002113	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-2.98	-0.001720	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-4.12	-0.002378	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-2.73	-0.001576	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-5.36	-0.003094	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-5.65	-0.003261	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-3.30	-0.001905	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-6.67	-0.003822	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	-6.51	-0.003731	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-5.49	-0.003146	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-5.72	-0.003278	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-5.87	-0.003364	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-5.34	-0.003060	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-5.54	-0.003175	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-4.66	-0.002670	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	3.95	0.002297	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-10	3.68	0.002140	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	3.79	0.002203	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	2.53	0.001471	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	3.03	0.001762	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	3.20	0.001860	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	1.85	0.001076	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	4.18	0.002430	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-4.42	-0.002551	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-10	-2.36	-0.001362	PASS



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Band4	20MHz	16QAM	20175	100RB#0	NV	0	-4.03	-0.002326	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-3.15	-0.001818	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-3.62	-0.002089	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-2.68	-0.001547	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	3.92	0.002263	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-4.52	-0.002609	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-6.54	-0.003748	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-10	-6.01	-0.003444	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-6.64	-0.003805	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-8.24	-0.004722	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-6.58	-0.003771	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-6.74	-0.003862	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-6.32	-0.003622	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-6.37	-0.003650	PASS

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