Appendix B

E-UTRA Band 4

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	21.26	21.96	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	21.31	22.01	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	20.94	21.64	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.21	21.91	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#2	21.29	21.99	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.04	21.74	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	20.15	20.85	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	20.95	21.65	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.13	21.83	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	20.57	21.27	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	20.88	21.58	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#2	21.07	21.77	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	20.54	21.24	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.01	20.71	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	20.87	21.57	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.53	22.23	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.04	21.74	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	20.91	21.61	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#2	21.48	22.18	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	20.98	21.68	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.23	20.93	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.05	20.75	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	20.29	20.99	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	19.51	20.21	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	20.11	20.81	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#2	20.32	21.02	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	19.69	20.39	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.00	19.70	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	19.79	20.49	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	19.65	20.35	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	19.55	20.25	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	19.83	20.53	30.00	PASS

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Band4	1.4MHz	16QAM	20175	3RB#2	19.69	20.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	19.73	20.43	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	18.96	19.66	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	19.55	20.25	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	19.70	20.40	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.21	20.91	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	19.57	20.27	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#2	19.69	20.39	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	20.16	20.86	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	18.99	19.69	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.21	21.91	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#7	21.30	22.00	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	20.92	21.62	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.15	20.85	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	20.23	20.93	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	20.03	20.73	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.17	20.87	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	20.92	21.62	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#7	21.11	21.81	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	20.57	21.27	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.14	20.84	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	20.13	20.83	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	20.04	20.74	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.00	20.70	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	20.86	21.56	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#7	21.48	22.18	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	21.04	21.74	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.16	20.86	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	20.25	20.95	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.17	20.87	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.22	20.92	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.08	20.78	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#7	20.25	20.95	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	19.55	20.25	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.02	19.72	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	19.09	19.79	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	18.92	19.62	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	18.94	19.64	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	19.77	20.47	30.00	PASS

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Band4	3MHz	16QAM	20175	1RB#7	19.66	20.36	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	19.58	20.28	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.11	19.81	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	19.14	19.84	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	19.11	19.81	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	18.96	19.66	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	19.56	20.26	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#7	19.77	20.47	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.19	20.89	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	19.06	19.76	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	19.17	19.87	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	19.04	19.74	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	18.96	19.66	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.21	21.91	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#13	21.29	21.99	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.00	21.70	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	20.12	20.82	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	20.20	20.90	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	20.07	20.77	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.15	20.85	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	20.88	21.58	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#13	21.04	21.74	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	20.59	21.29	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.12	20.82	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.07	20.77	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.04	20.74	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.04	20.74	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	20.95	21.65	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#13	21.48	22.18	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	20.98	21.68	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.14	20.84	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	20.30	21.00	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.13	20.83	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.14	20.84	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.10	20.80	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#13	20.29	20.99	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	19.54	20.24	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	18.98	19.68	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	19.11	19.81	30.00	PASS

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Band4	5MHz	16QAM	19975	12RB#13	18.91	19.61	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	18.93	19.63	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	19.86	20.56	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#13	19.67	20.37	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	19.55	20.25	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	19.12	19.82	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	19.20	19.90	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	19.07	19.77	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	18.97	19.67	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	19.56	20.26	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#13	19.69	20.39	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.24	20.94	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	19.04	19.74	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	19.19	19.89	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	19.04	19.74	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.00	19.70	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.26	21.96	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#25	21.30	22.00	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	20.97	21.67	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	20.19	20.89	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#13	20.25	20.95	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	20.02	20.72	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	20.12	20.82	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	20.91	21.61	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#25	21.09	21.79	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	20.58	21.28	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	20.15	20.85	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#13	20.11	20.81	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	20.03	20.73	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.04	20.74	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	20.93	21.63	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#25	21.57	22.27	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	21.06	21.76	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	20.24	20.94	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#13	20.23	20.93	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	20.20	20.90	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	20.18	20.88	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.07	20.77	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#25	20.30	21.00	30.00	PASS

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Band4	10MHz	16QAM	20000	1RB#49	19.60	20.30	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	18.99	19.69	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#13	19.08	19.78	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	18.88	19.58	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	18.98	19.68	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	19.81	20.51	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#25	19.69	20.39	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	19.65	20.35	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	19.16	19.86	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#13	19.17	19.87	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	19.07	19.77	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	19.02	19.72	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	19.50	20.20	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#25	19.69	20.39	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	20.16	20.86	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	19.11	19.81	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#13	19.17	19.87	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	19.05	19.75	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	19.01	19.71	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.18	21.88	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	21.27	21.97	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	20.98	21.68	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	20.16	20.86	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	20.23	20.93	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	20.01	20.71	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	20.15	20.85	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	20.89	21.59	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.13	21.83	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	20.61	21.31	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	20.19	20.89	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	20.11	20.81	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	20.01	20.71	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	20.02	20.72	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	20.88	21.58	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.57	22.27	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	20.98	21.68	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	20.14	20.84	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	20.29	20.99	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	20.23	20.93	30.00	PASS

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Band4	15MHz	QPSK	20325	75RB#0	20.22	20.92	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	20.08	20.78	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	20.28	20.98	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	19.53	20.23	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	19.03	19.73	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	19.06	19.76	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	18.91	19.61	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	18.98	19.68	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	19.78	20.48	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	19.69	20.39	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	19.60	20.30	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	19.12	19.82	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	19.17	19.87	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	19.04	19.74	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	19.01	19.71	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	19.53	20.23	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	19.71	20.41	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.18	20.88	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	19.07	19.77	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	19.21	19.91	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	19.08	19.78	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	19.03	19.73	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	21.36	22.06	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#50	21.46	22.16	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.11	21.81	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	20.30	21.00	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	20.38	21.08	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	20.19	20.89	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	20.30	21.00	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.08	21.78	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#50	21.44	22.14	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	20.76	21.46	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	20.29	20.99	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	20.23	20.93	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	20.14	20.84	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.20	20.90	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.06	21.76	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#50	21.68	22.38	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.18	21.88	30.00	PASS

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Band4	20MHz	QPSK	20300	50RB#0	20.34	21.04	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	20.43	21.13	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.33	21.03	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.34	21.04	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	20.21	20.91	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#50	20.42	21.12	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	19.71	20.41	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	19.14	19.84	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	19.21	19.91	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	19.08	19.78	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	19.10	19.80	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	19.96	20.66	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#50	19.83	20.53	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	19.75	20.45	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	19.29	19.99	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	19.33	20.03	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	19.22	19.92	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	19.13	19.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	19.69	20.39	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#50	19.88	20.58	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.36	21.06	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	19.21	19.91	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	19.34	20.04	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	19.20	19.90	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	19.14	19.84	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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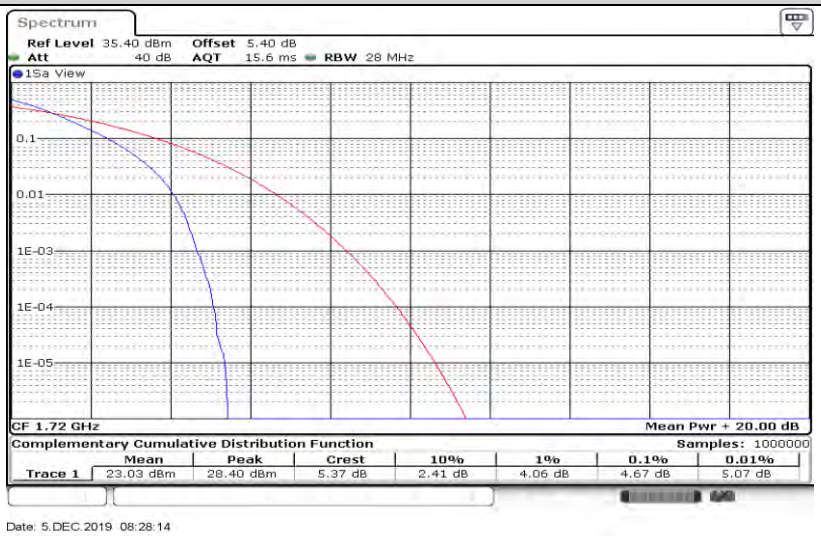
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.67	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.87	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.96	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.62	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.77	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.86	13	PASS

2.2. Test Plots

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



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

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

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

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

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

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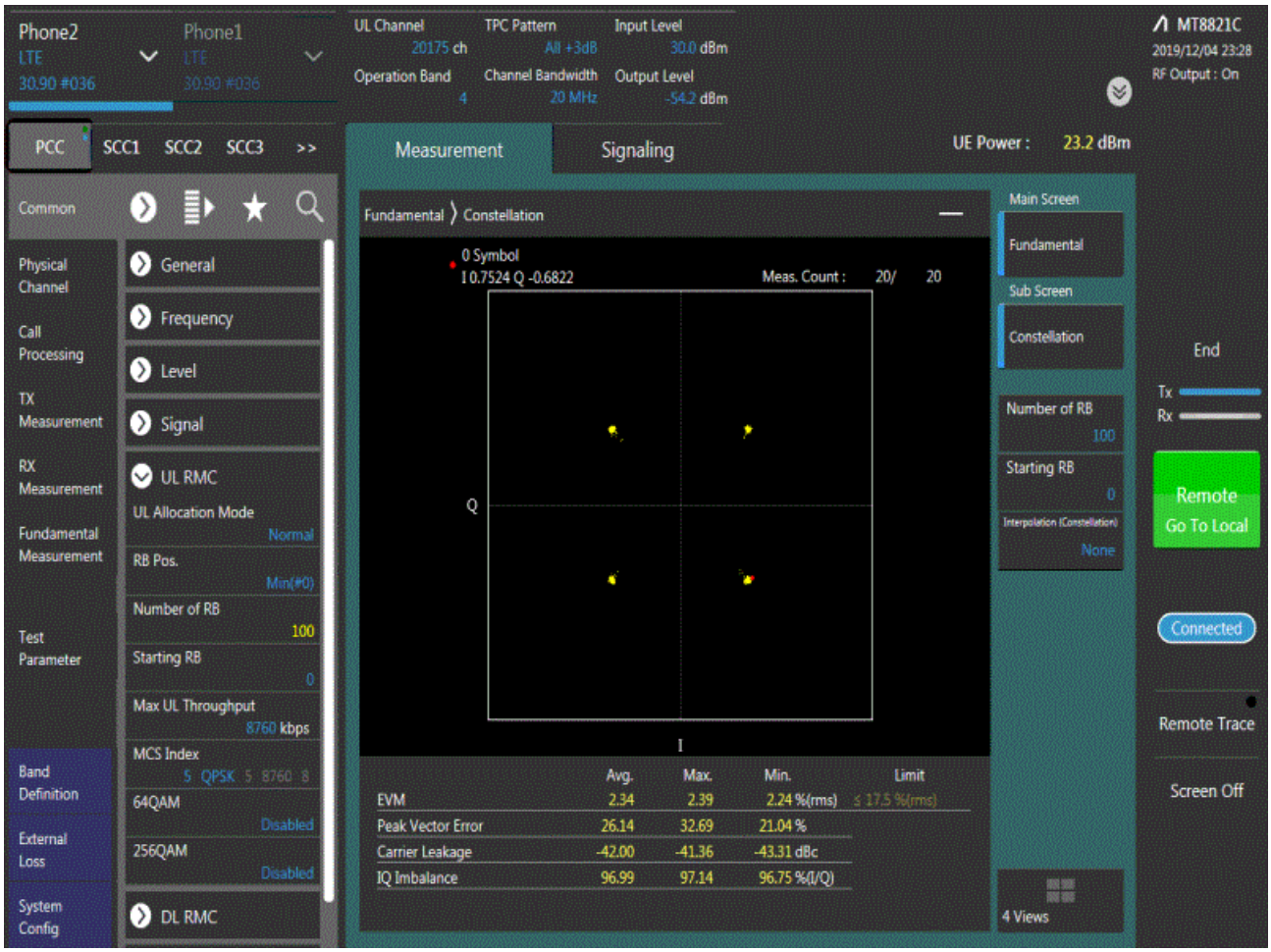
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1.Test Channel = MCH



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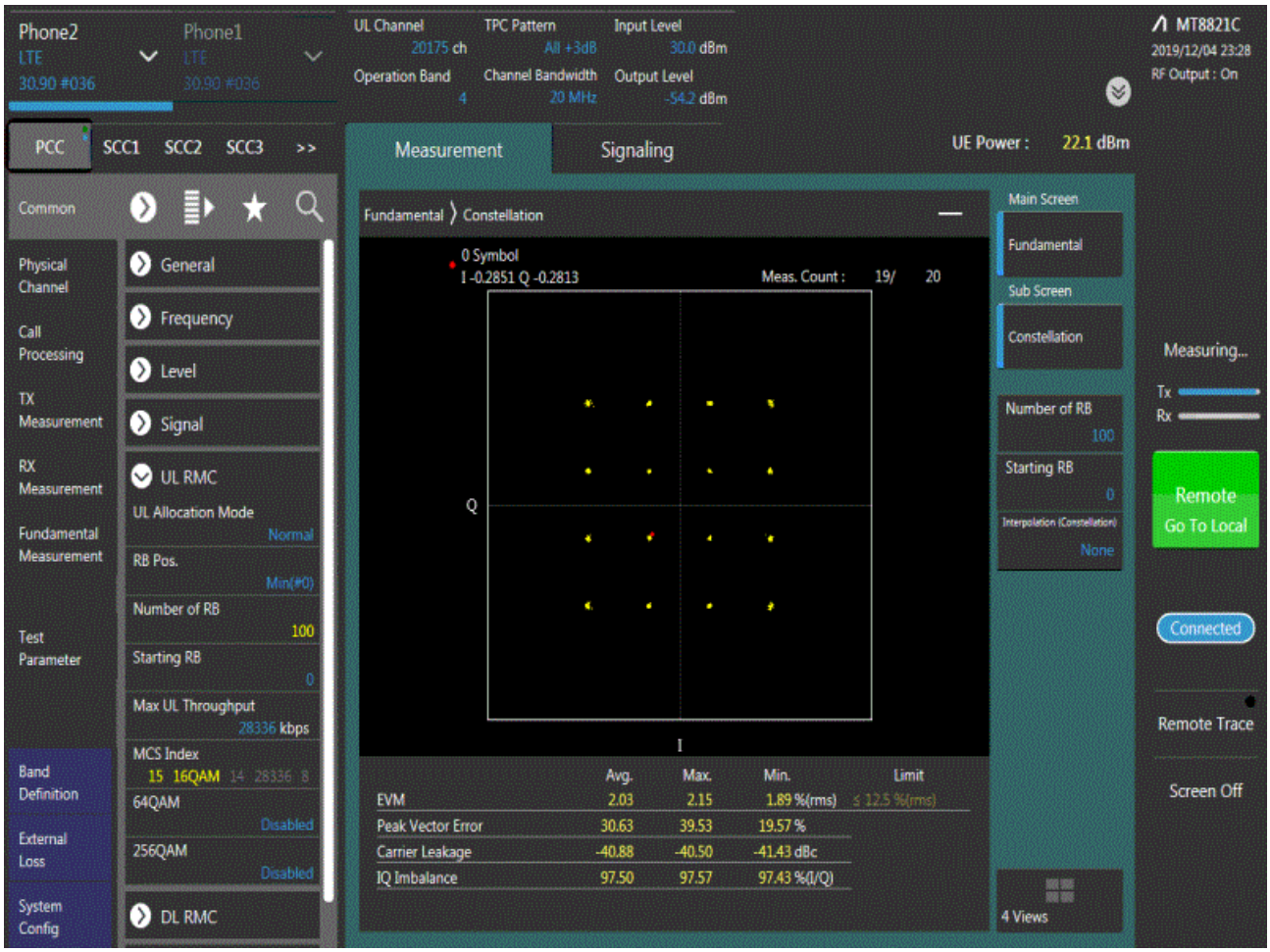
3.2. Test Mode = LTE /TM2 20MHz

3.2.1.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	1.094	1.287	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.094	1.275	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.290	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.281	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.082	1.260	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.278	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	2.982	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	2.994	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.994	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.970	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.964	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.910	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.920	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.960	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.496	4.960	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.950	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.720	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.911	9.680	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.680	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.720	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.680	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.700	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.427	14.730	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.427	14.640	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.760	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.670	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.427	14.550	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.760	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.822	19.360	PASS

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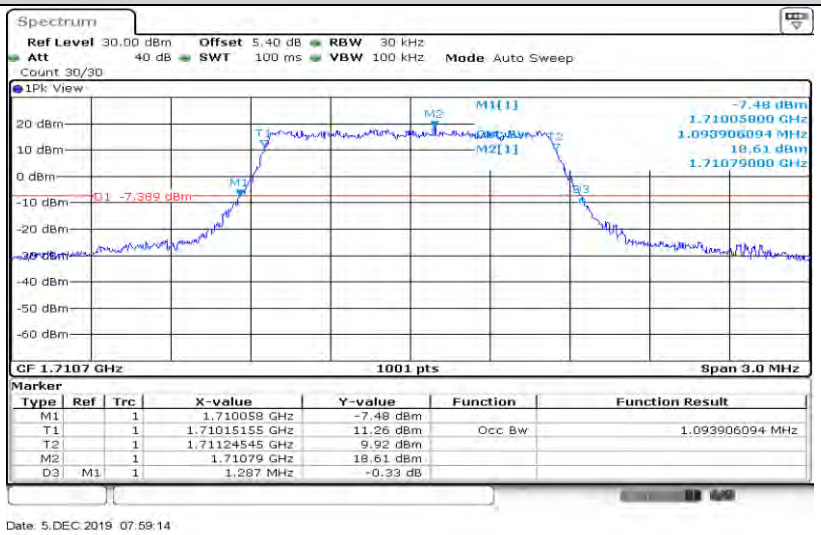
Band4	20MHz	QPSK	20175	100RB#0	17.822	19.400	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.862	19.360	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.320	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.400	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.862	19.400	PASS

4.2. Test Plots

Band4-1.4MHz-QPSK-19957-6RB#0-1.094



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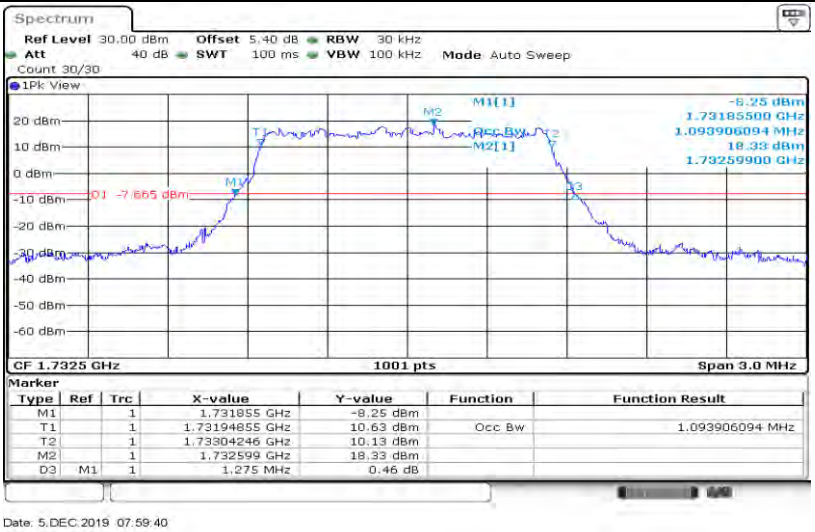

Band4-1.4MHz-QPSK-20393-6RB#0-1.091

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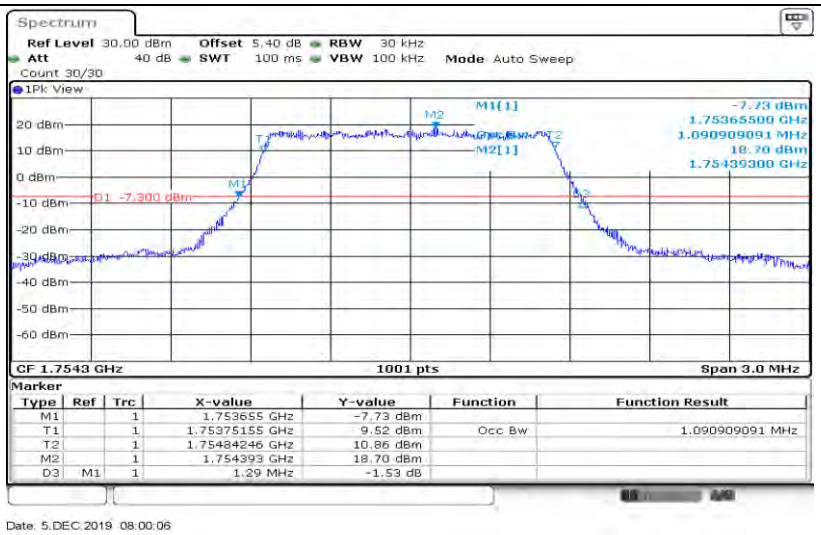

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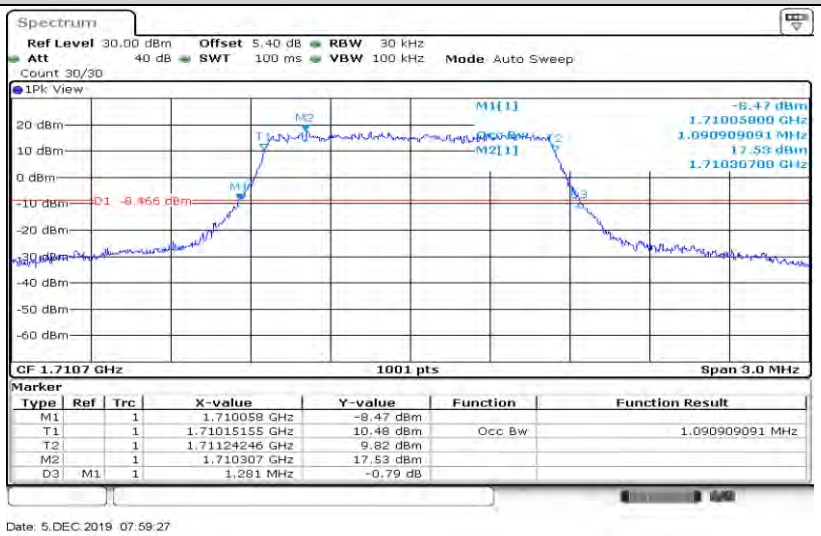

Band4-1.4MHz-16QAM-20175-6RB#0-1.082

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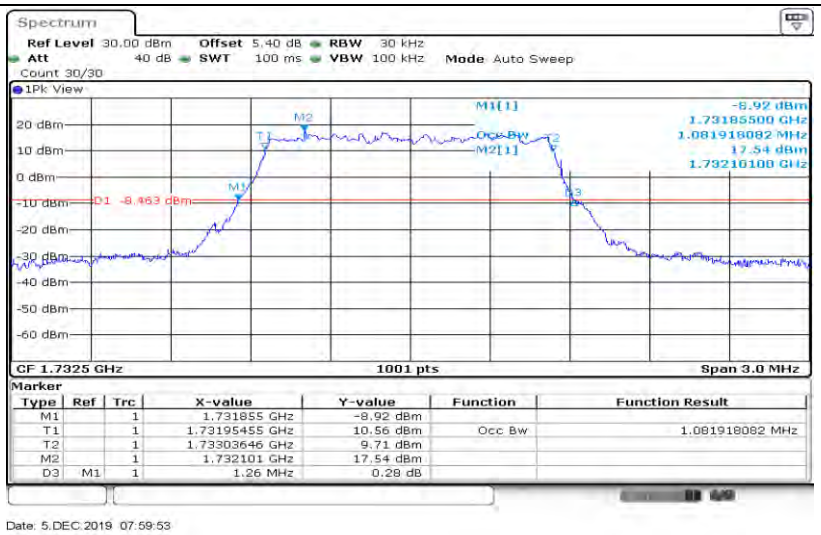
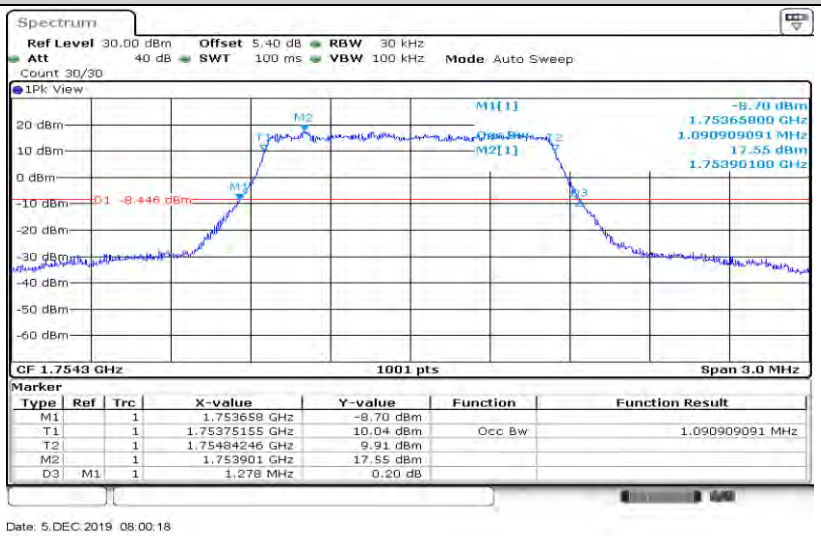


Band4-1.4MHz-16QAM-20393-6RB#0-1.091



Band4-3MHz-QPSK-19965-15RB#0-2.697

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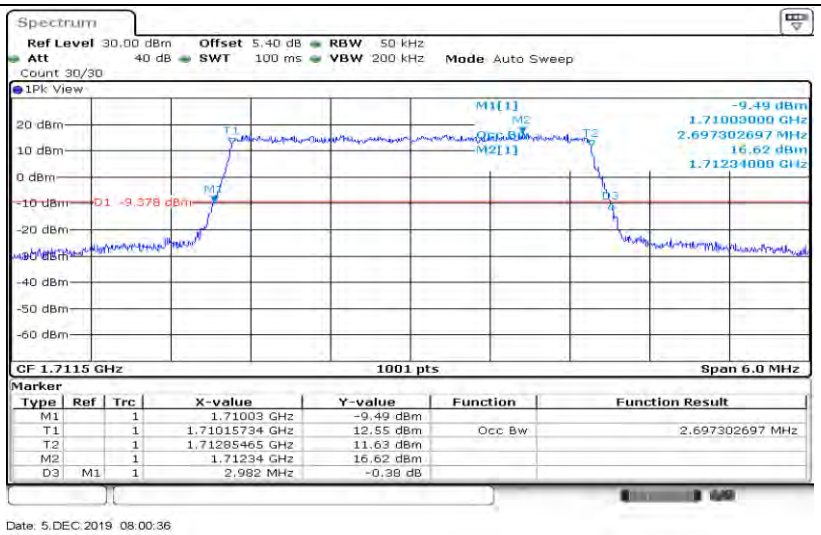
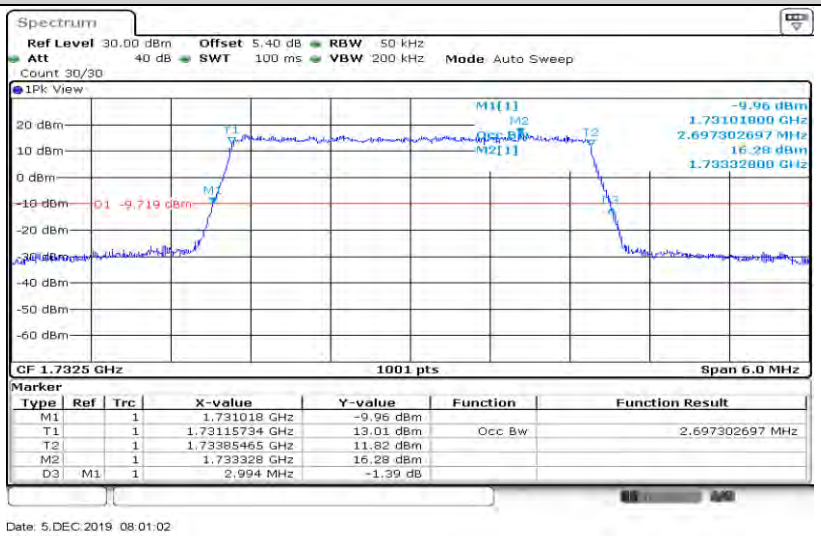


Band4-3MHz-QPSK-20175-15RB#0-2.697



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

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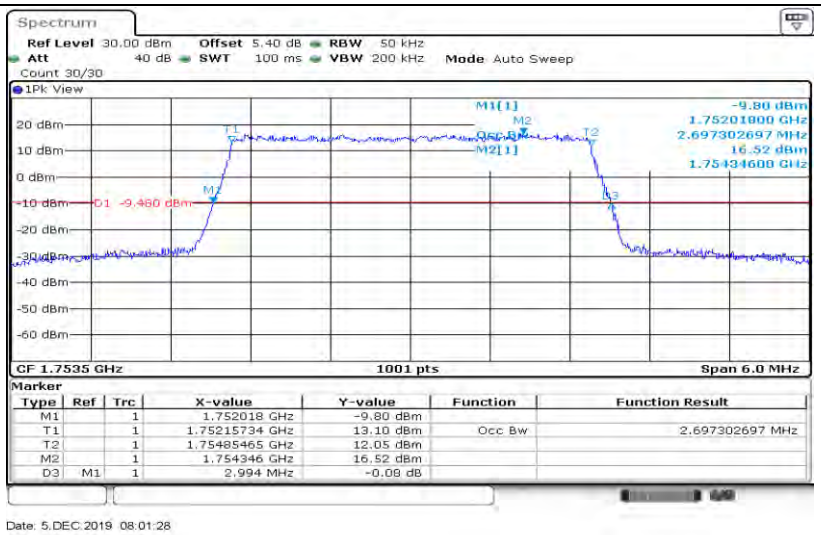
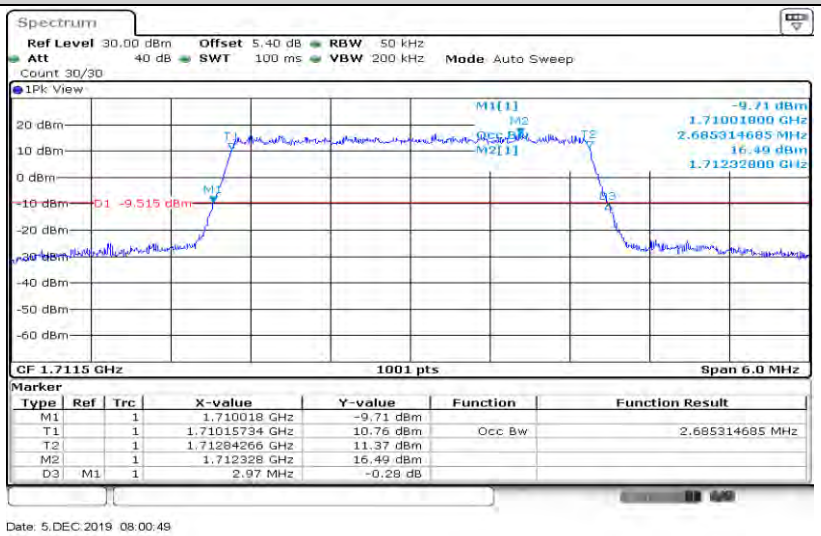


Band4-3MHz-16QAM-19965-15RB#0-2.685



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

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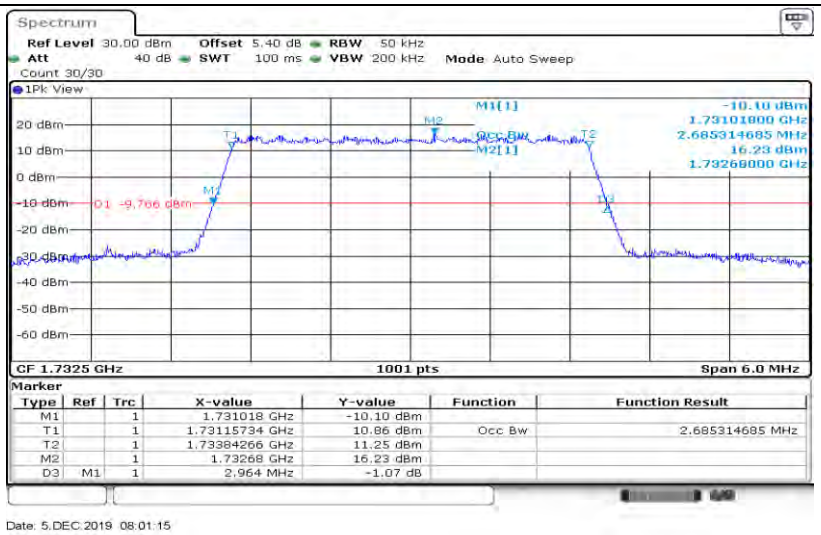

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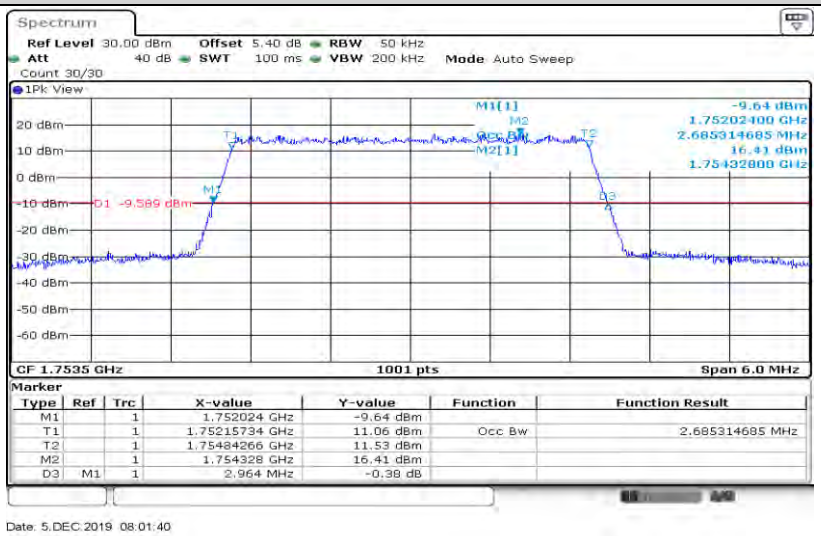

Date: 5.DEC.2019 08:01:40

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

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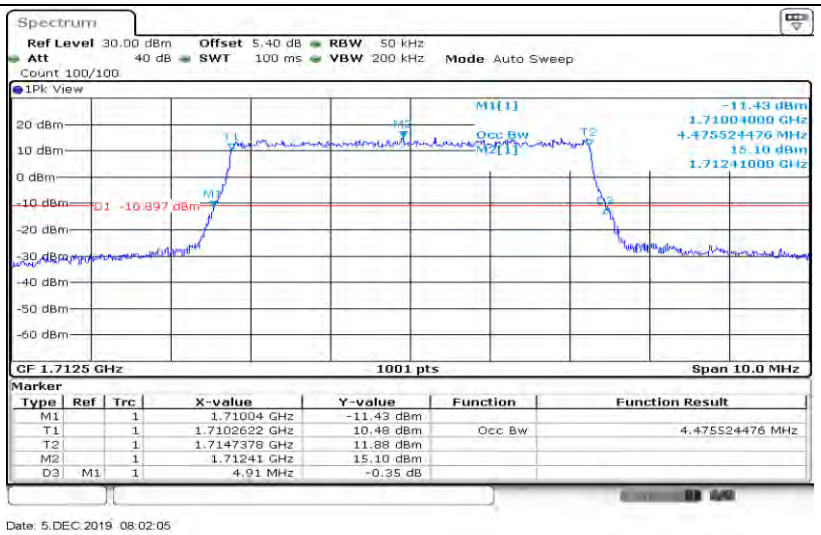

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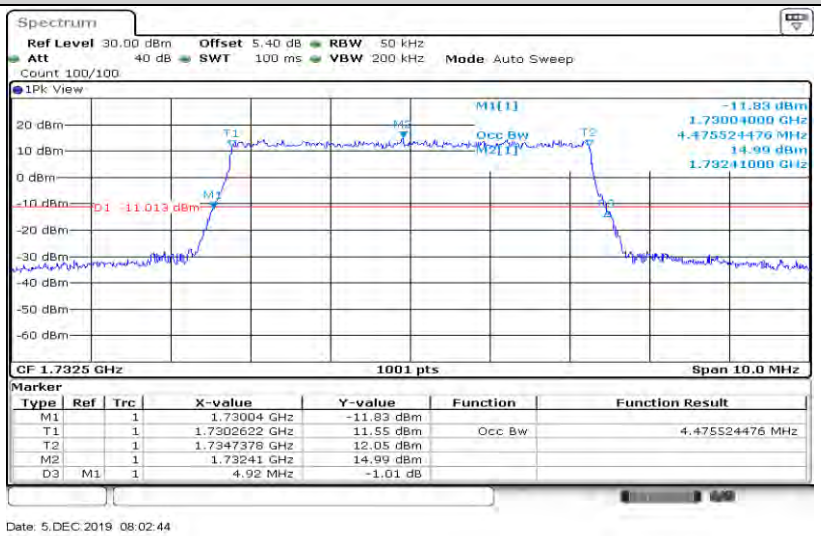

Band4-5MHz-QPSK-20375-25RB#0-4.476

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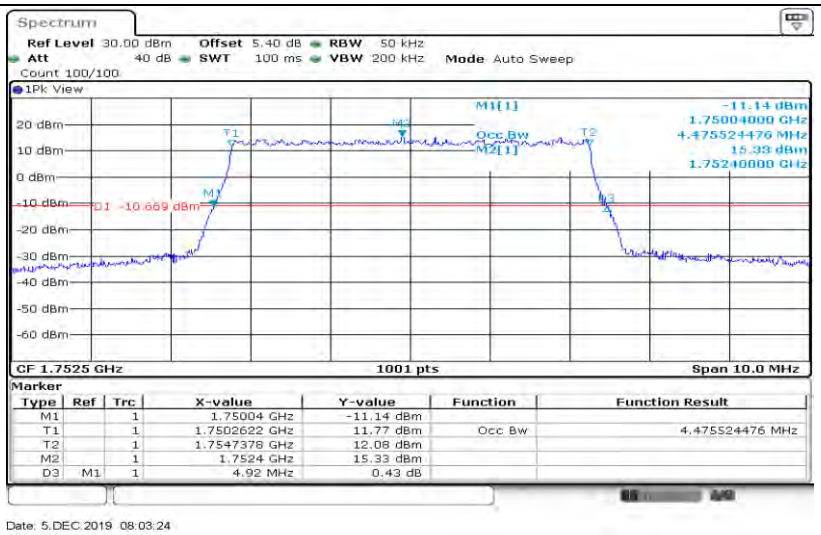
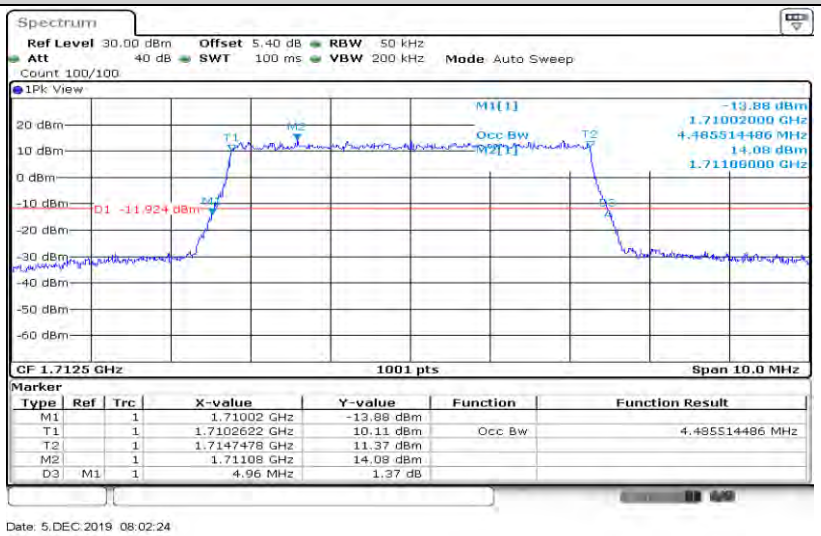


Band4-5MHz-16QAM-19975-25RB#0-4.486



Band4-5MHz-16QAM-20175-25RB#0-4.496

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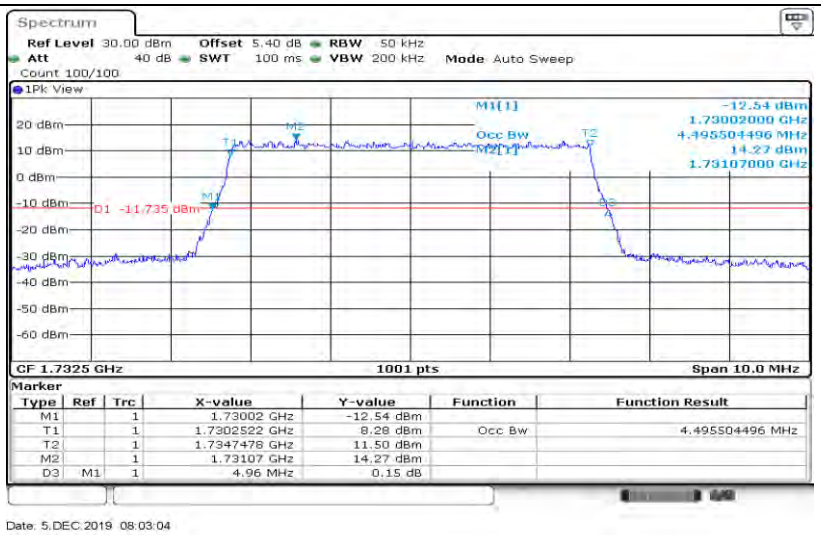

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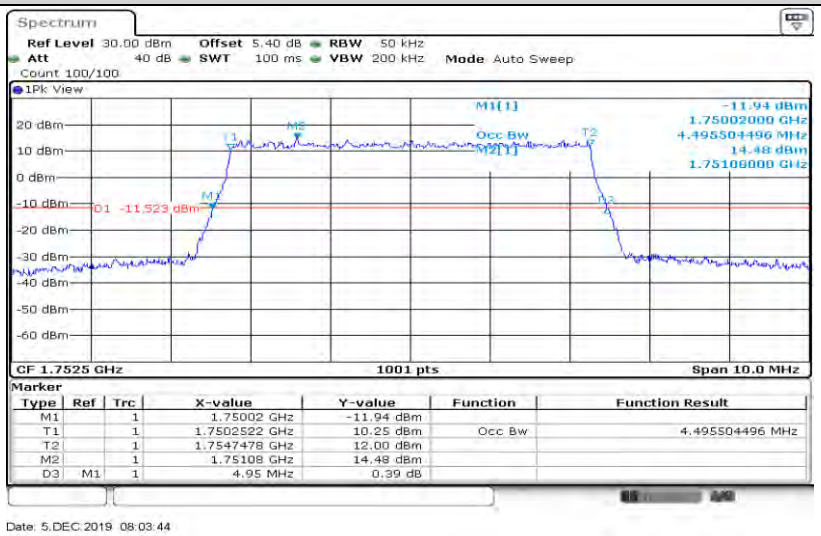

Band4-10MHz-QPSK-20000-50RB#0-8.931

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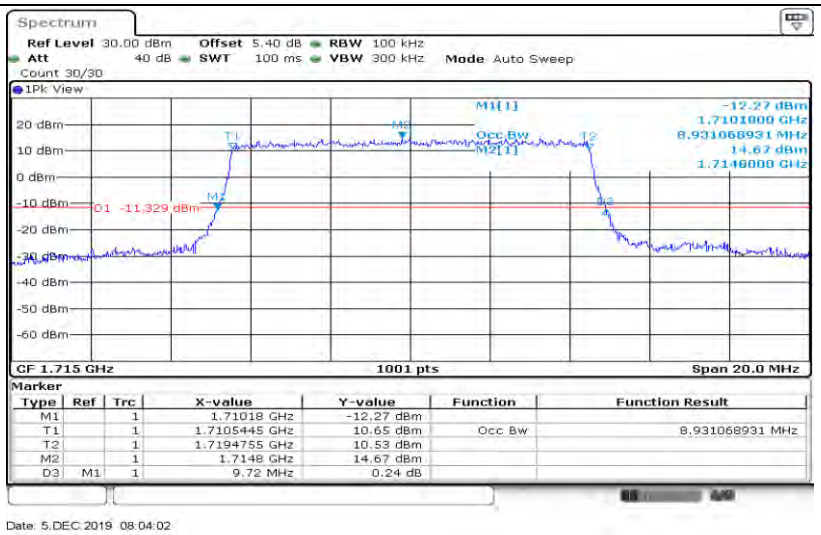

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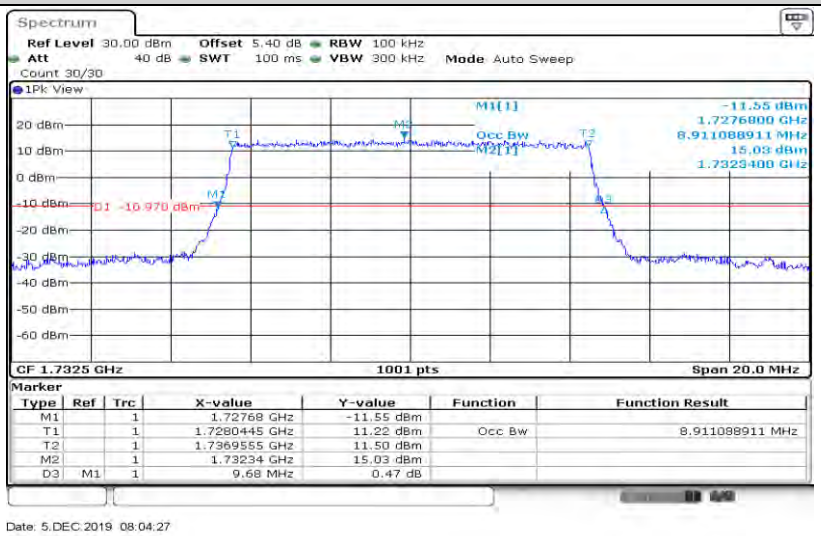
Band4-10MHz-QPSK-20175-50RB#0-8.911



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Band4-10MHz-QPSK-20350-50RB#0-8.931

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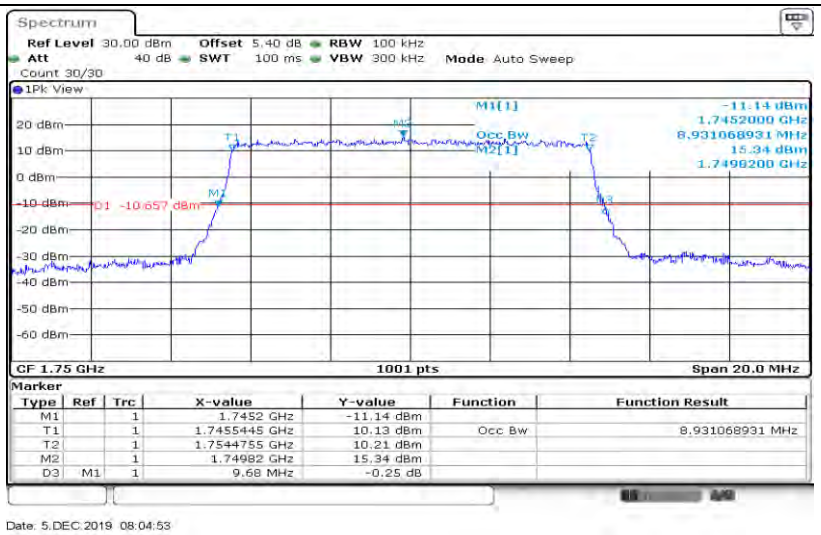
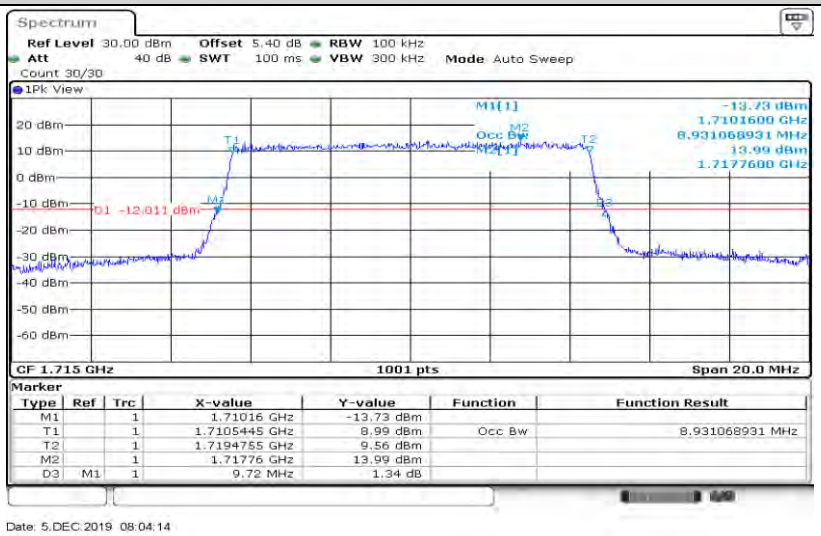


Band4-10MHz-16QAM-20000-50RB#0-8.931



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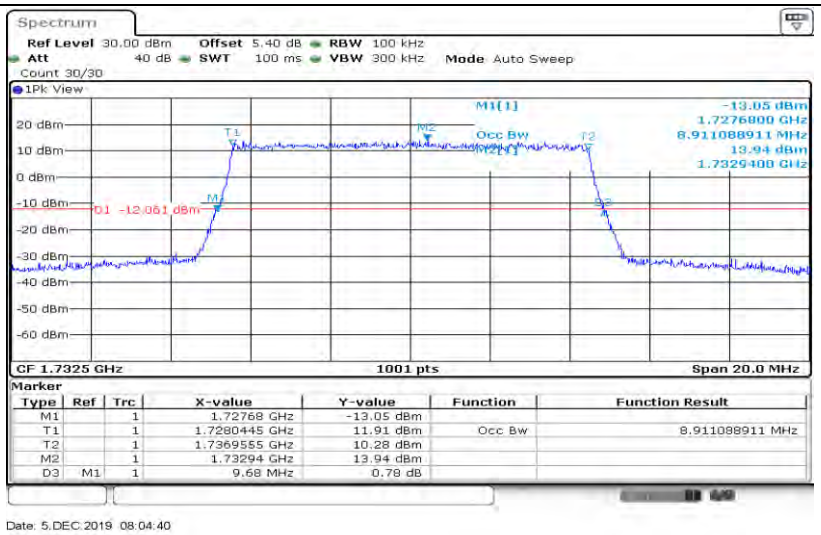

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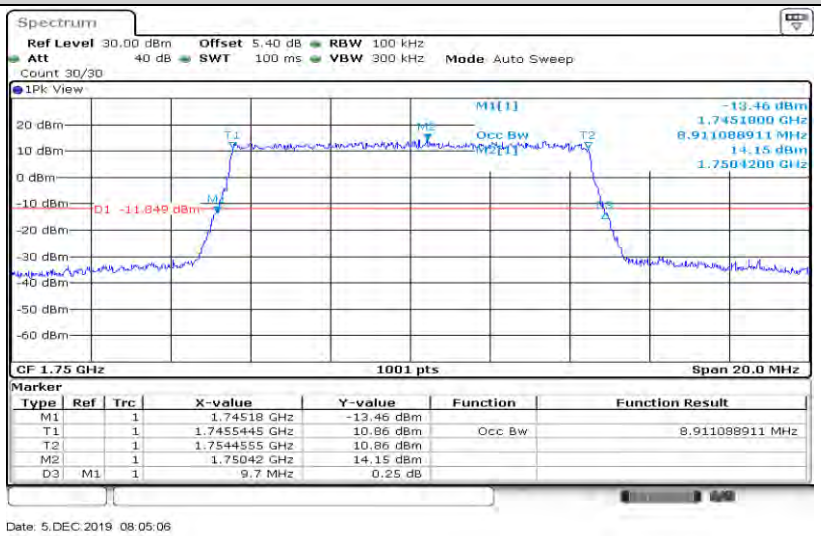

Band4-15MHz-QPSK-20025-75RB#0-13.427

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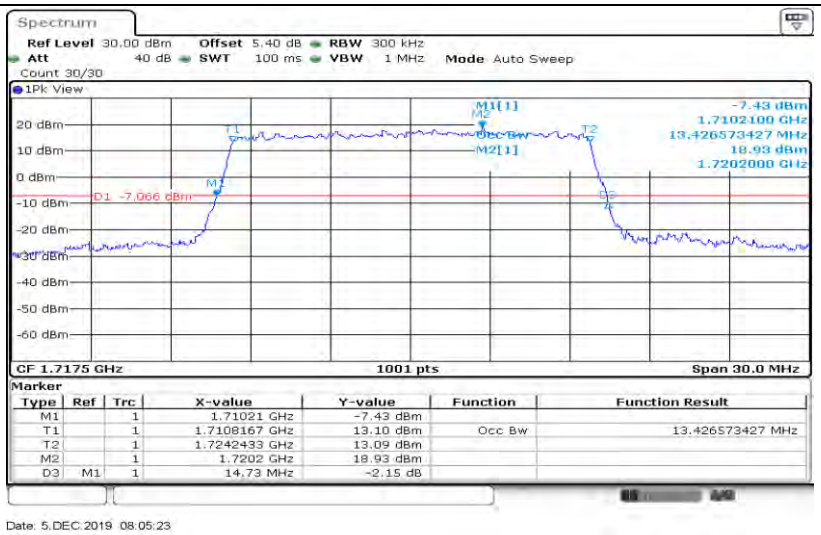

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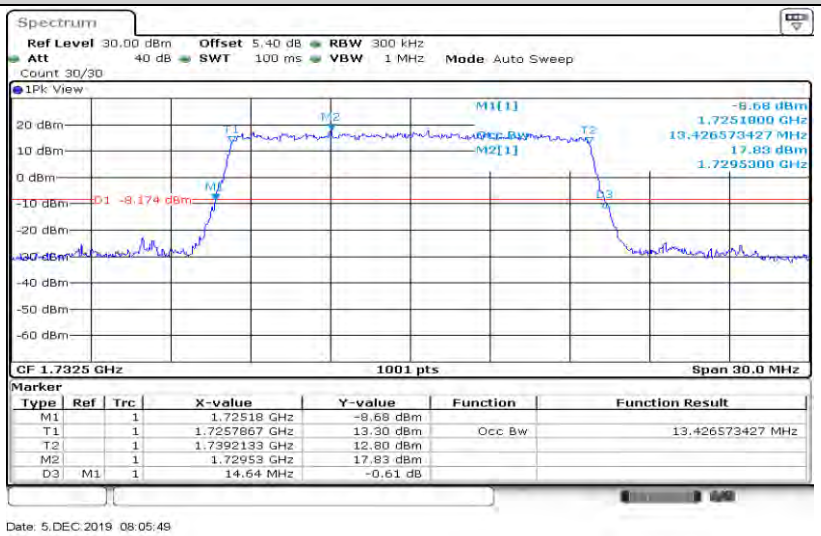

Band4-15MHz-QPSK-20325-75RB#0-13.457

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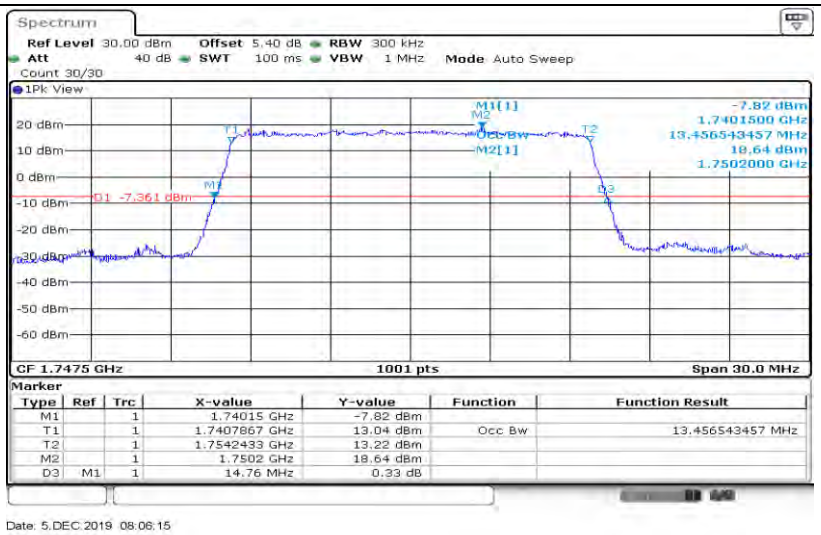

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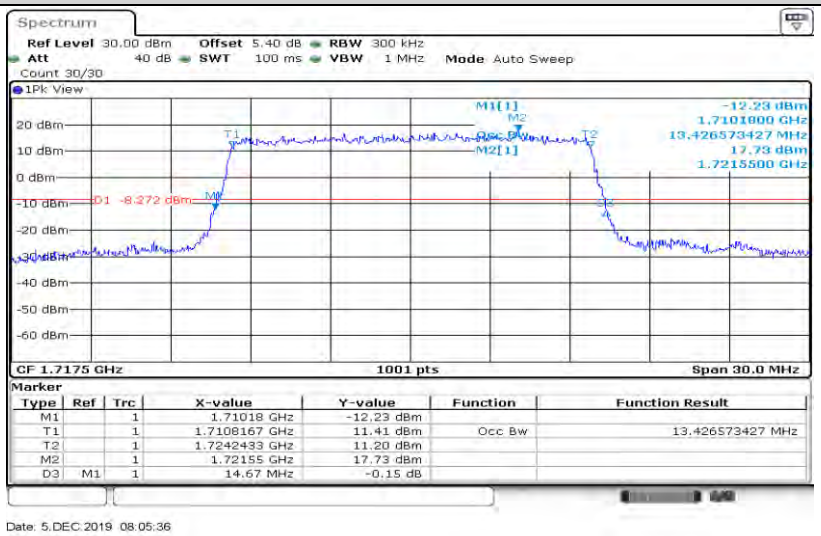

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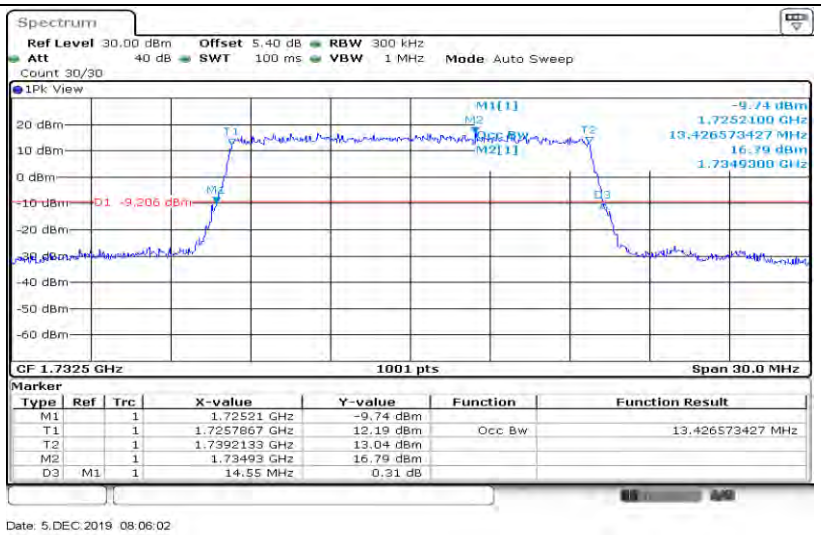

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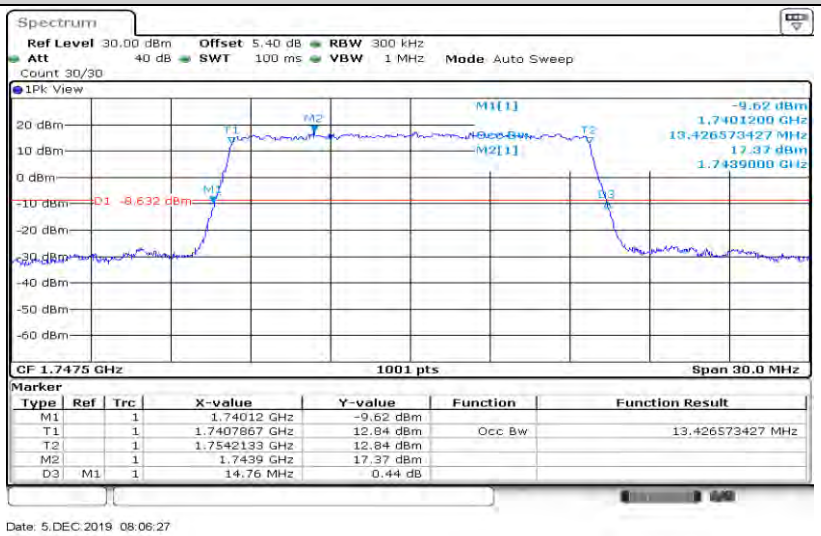

Band4-20MHz-QPSK-20050-100RB#0-17.822

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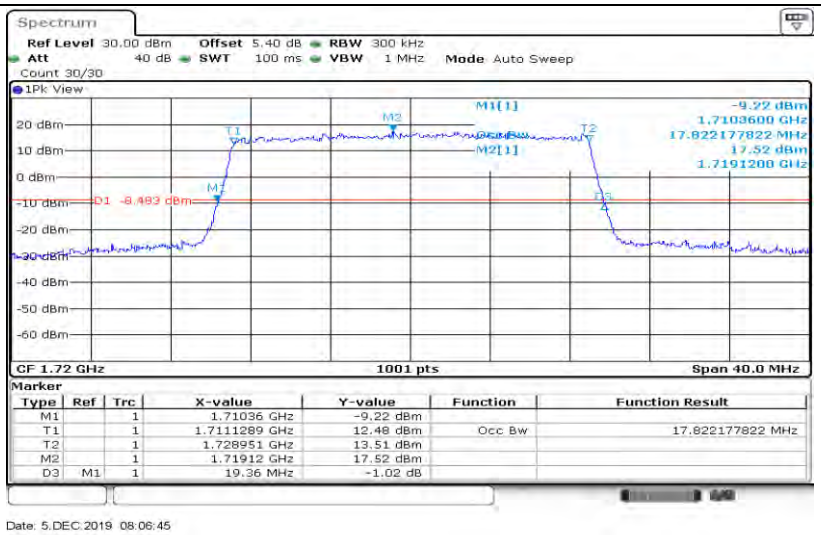

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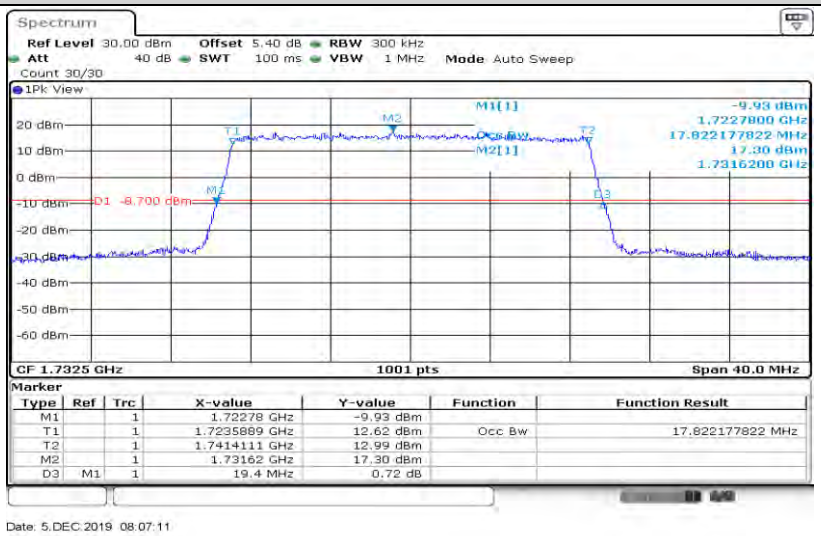

Band4-20MHz-QPSK-20300-100RB#0-17.862

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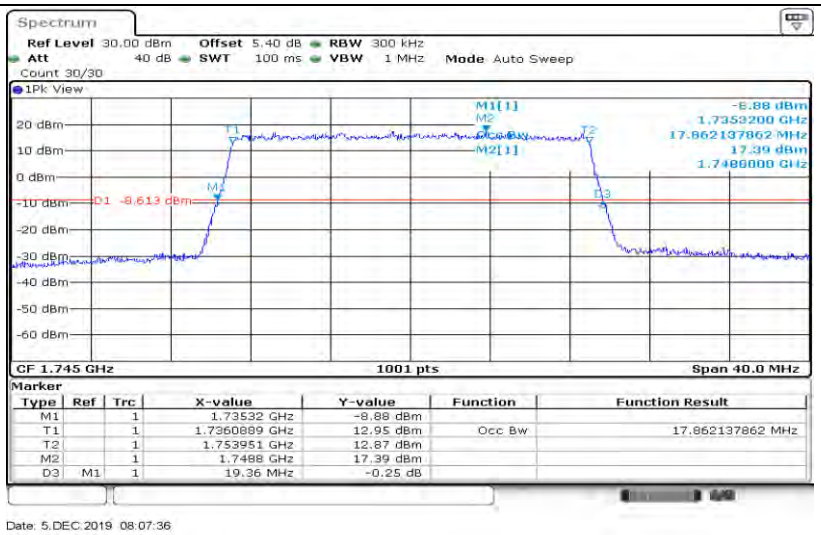
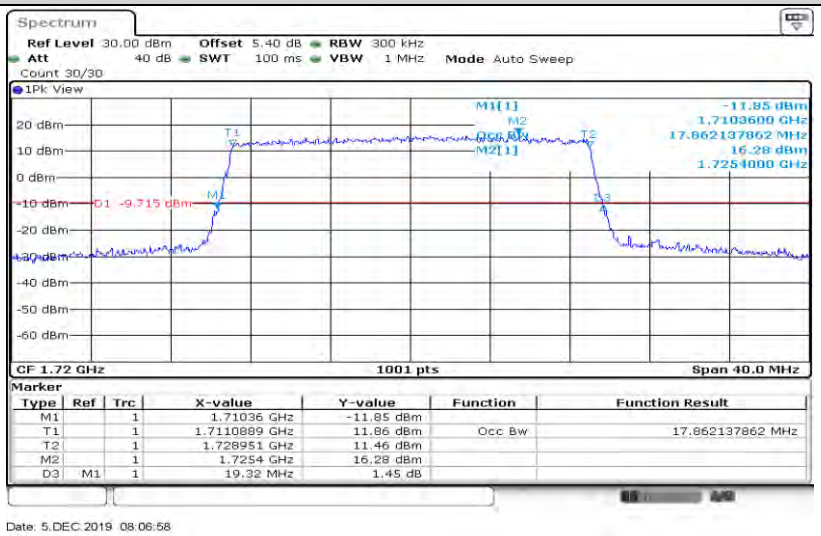


Band4-20MHz-16QAM-20050-100RB#0-17.862



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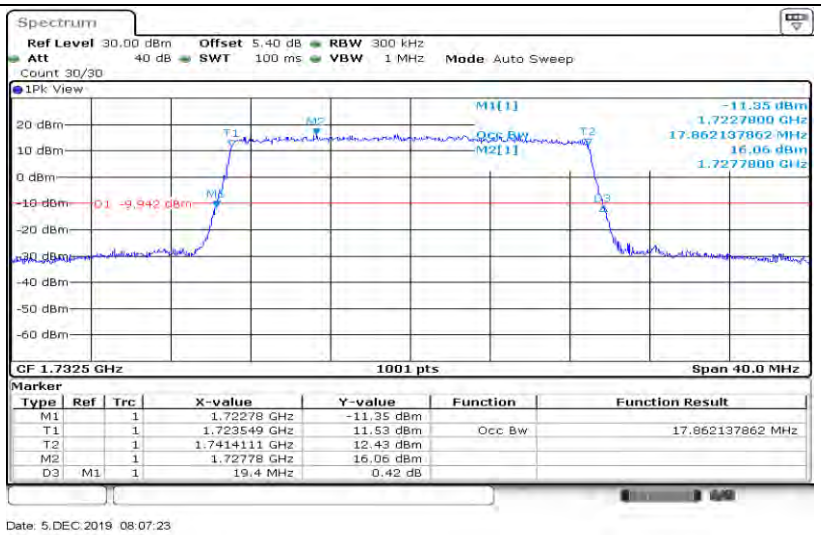
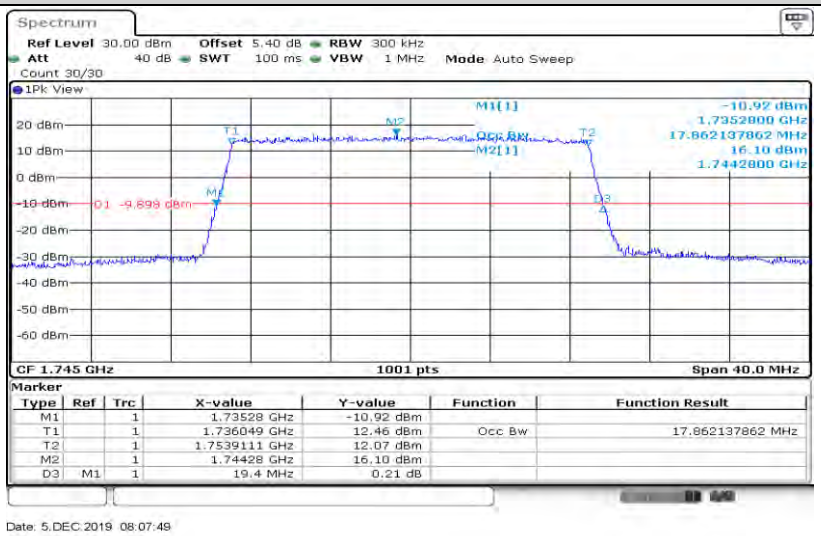


Band4-20MHz-16QAM-20300-100RB#0-17.862



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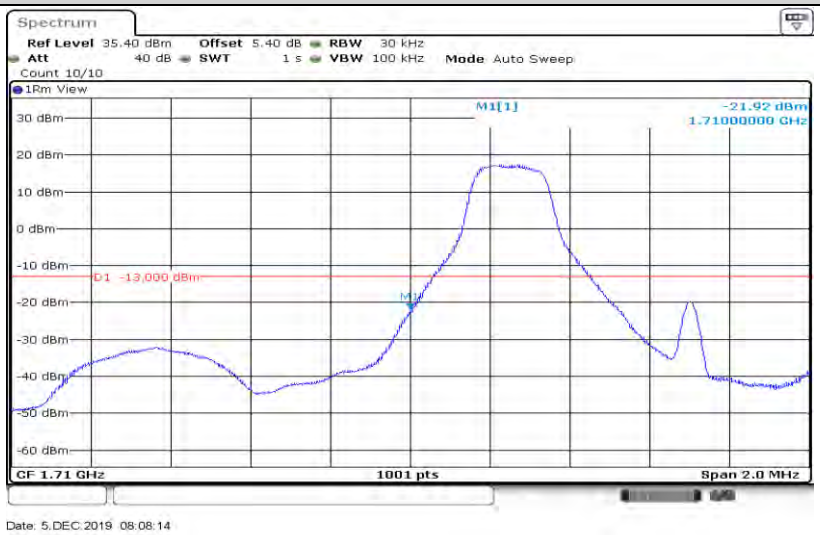
5. Band Edge Compliance

5.1. Test Plots

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



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

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

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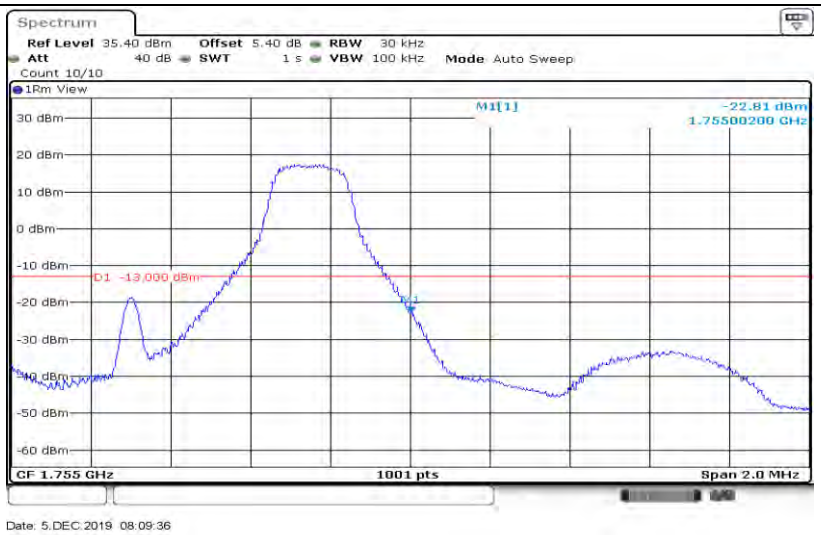

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Band4-1.4MHz-16QAM-19957-1RB#0

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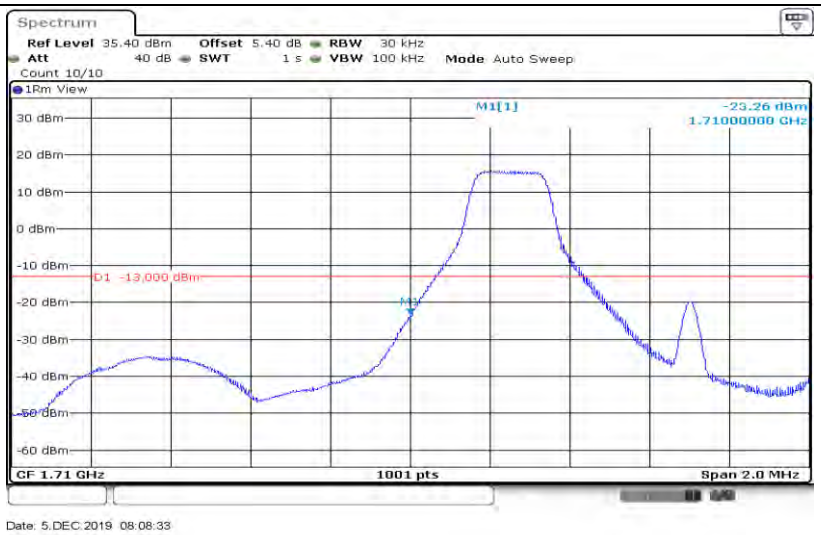

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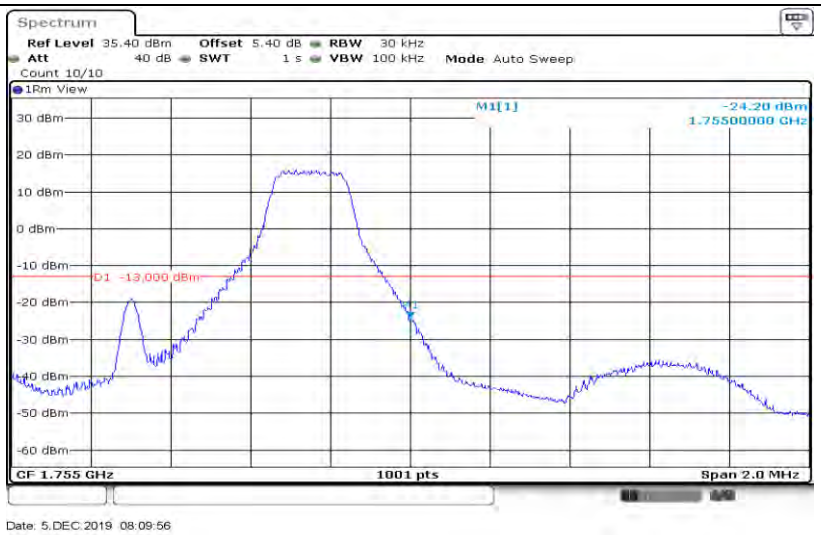

Band4-1.4MHz-16QAM-20393-6RB#0

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

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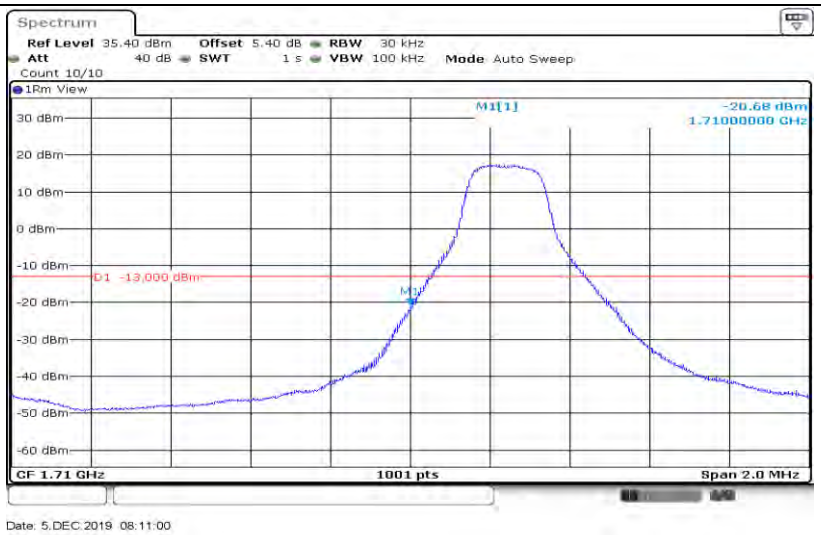

Band4-3MHz-QPSK-19965-15RB#0

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

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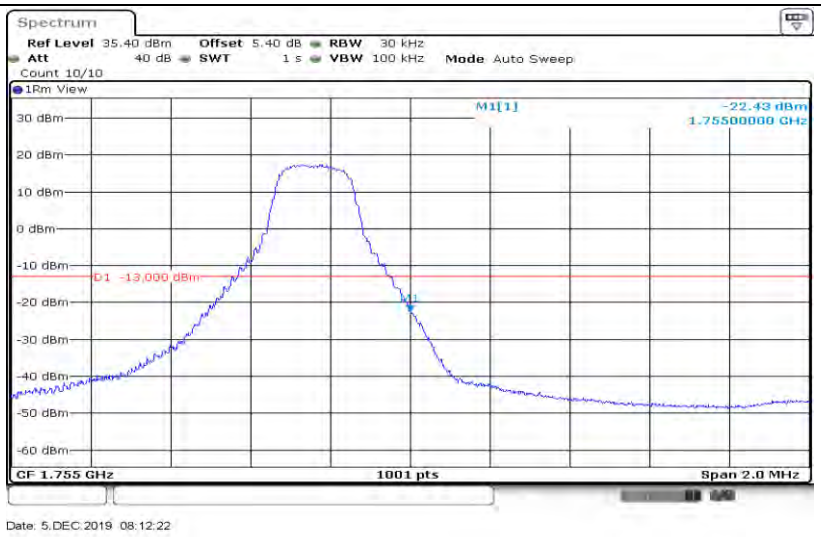

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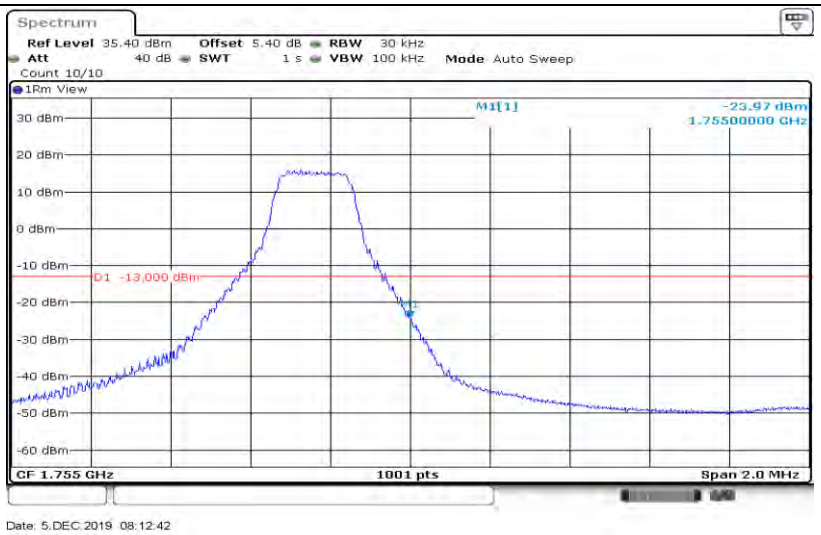

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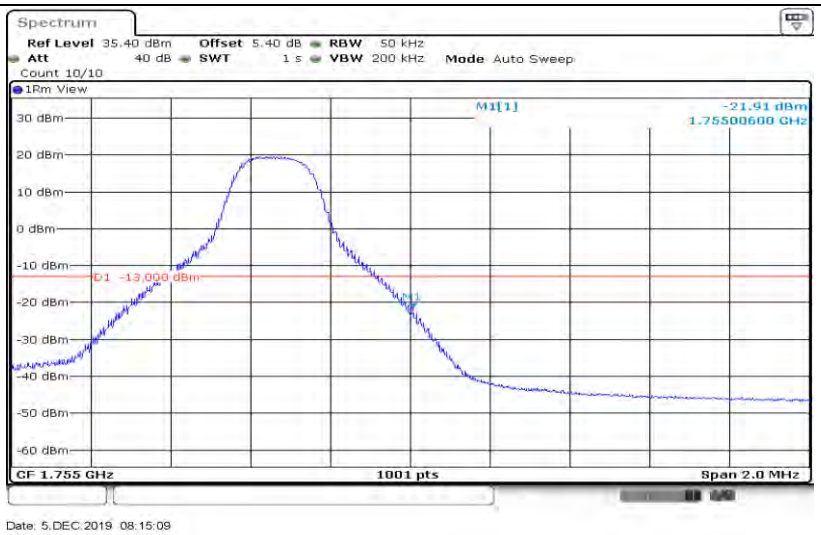

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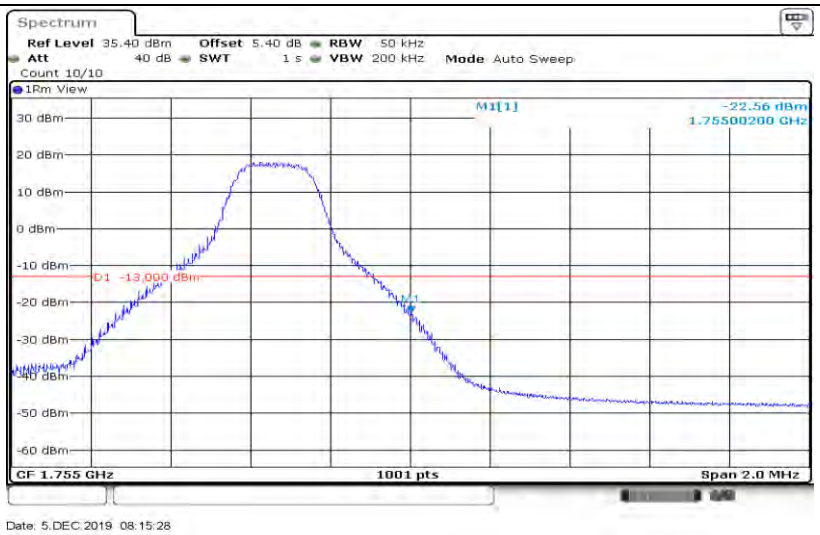

Band4-5MHz-16QAM-20375-25RB#0

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

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

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

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

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

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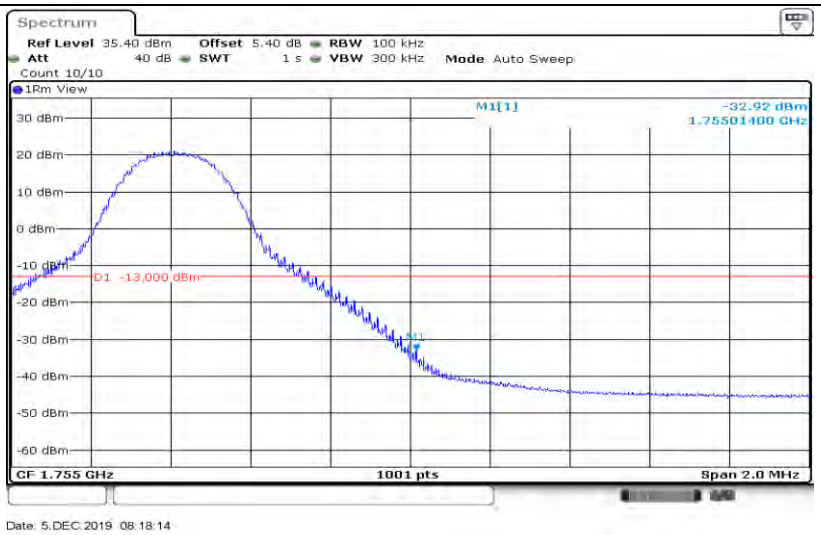

Band4-10MHz-16QAM-20350-50RB#0

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

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

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

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

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

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

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

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

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

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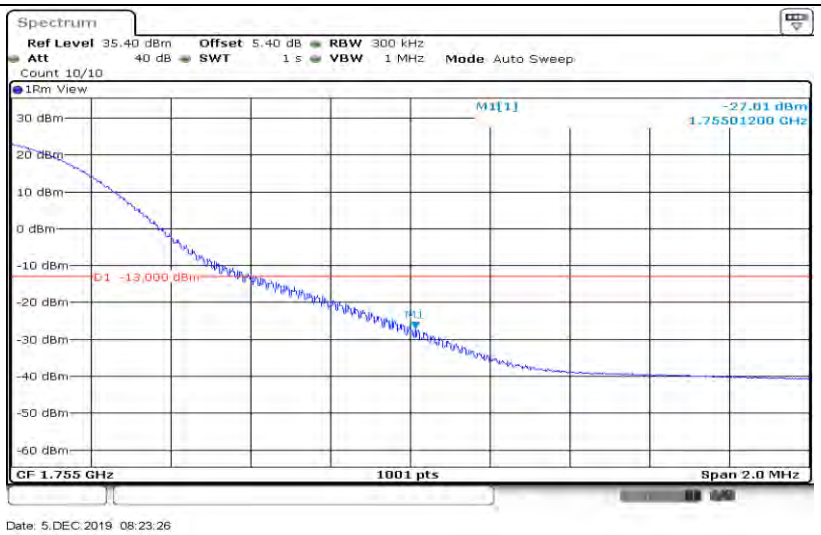
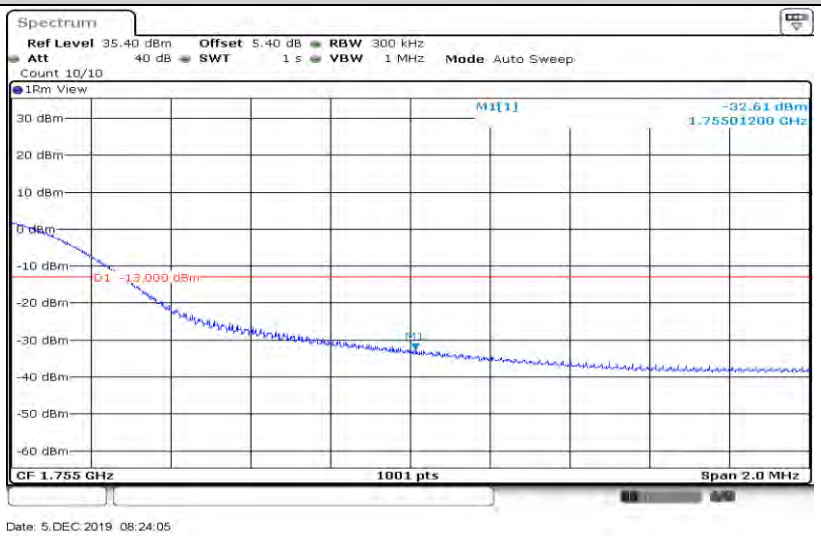


Band4-20MHz-QPSK-20300-100RB#0



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

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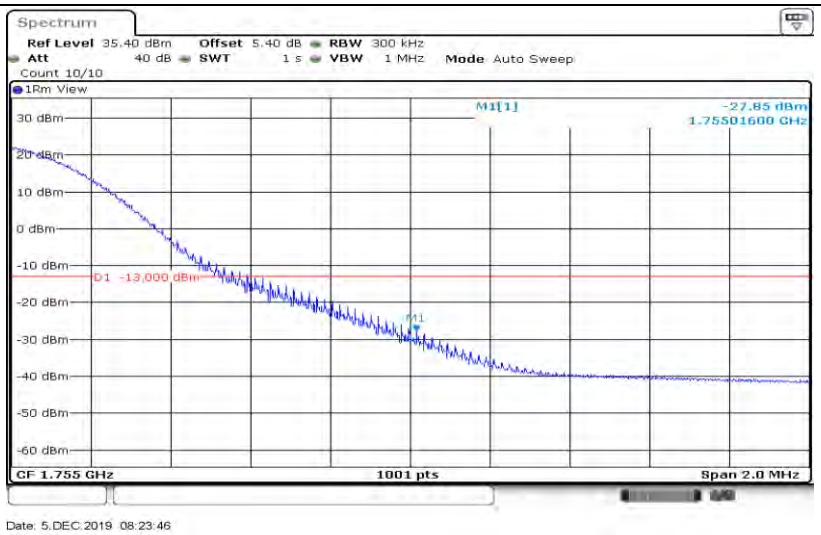

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Band4-20MHz-16QAM-20300-100RB#0

Date: 5.DEC.2019 08:24:25

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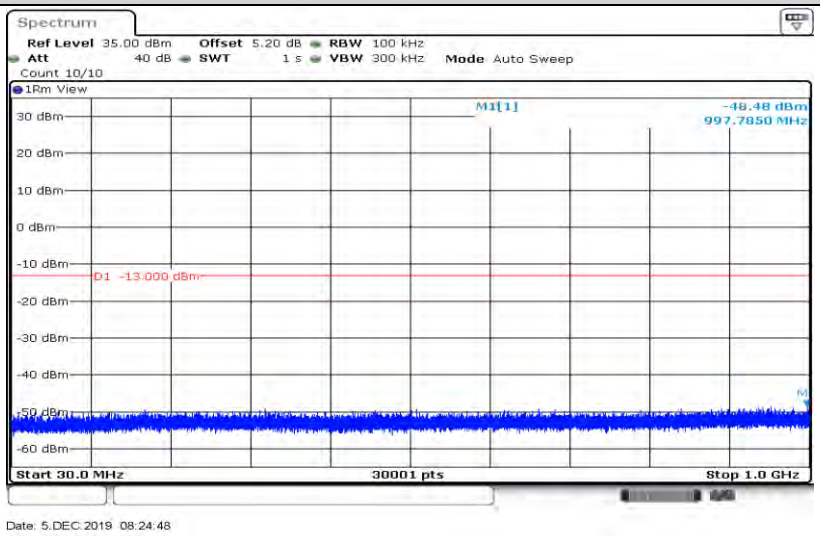
6. Spurious Emission at Antenna Terminal

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.

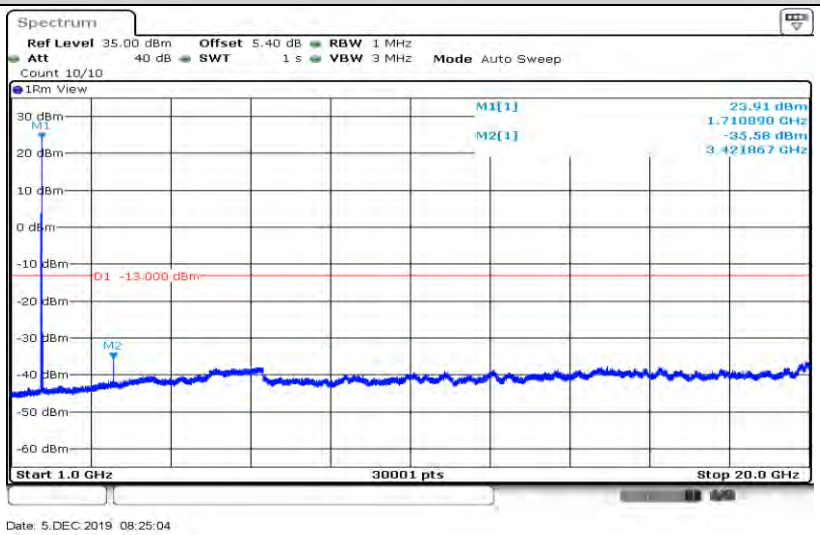
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

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



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



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

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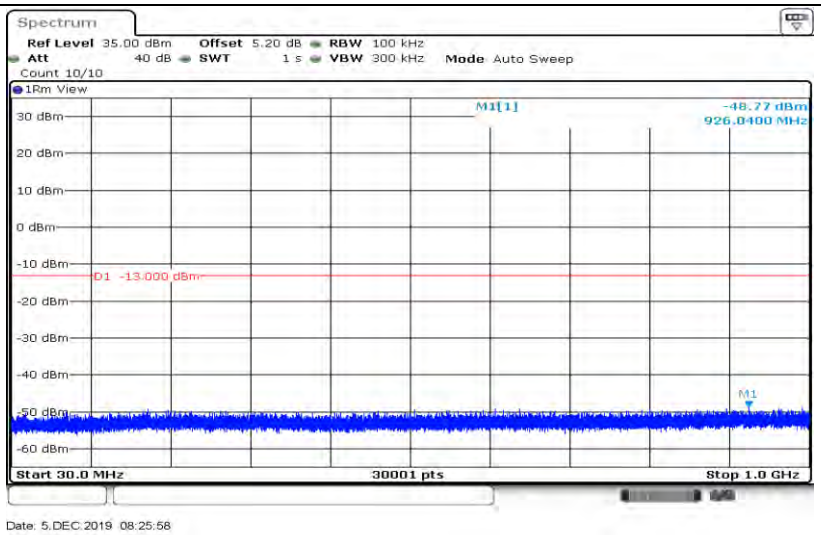

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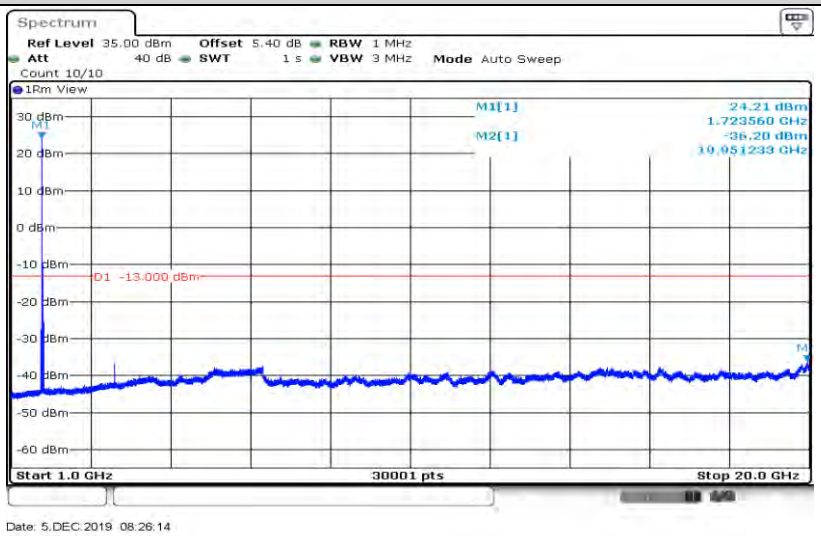

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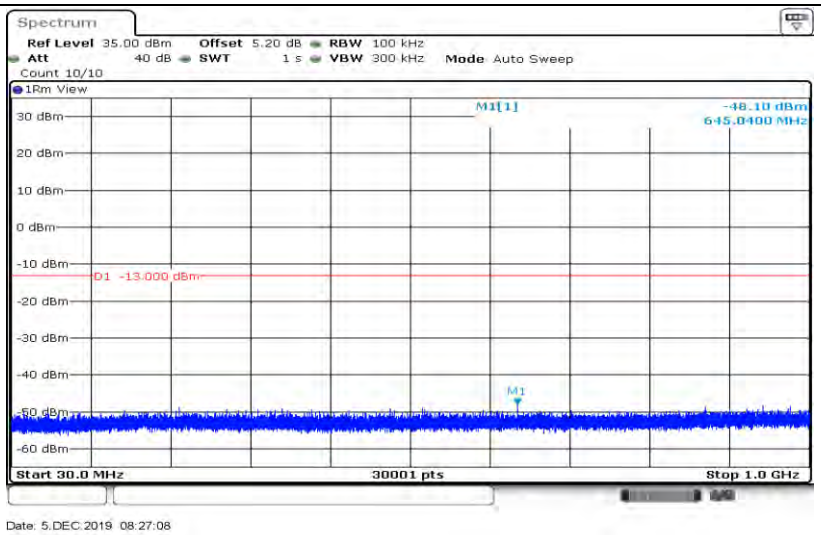
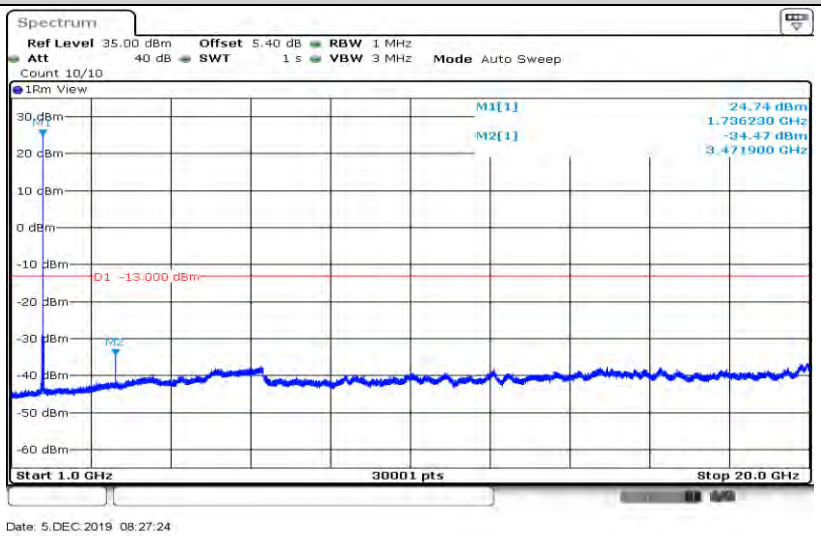


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



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

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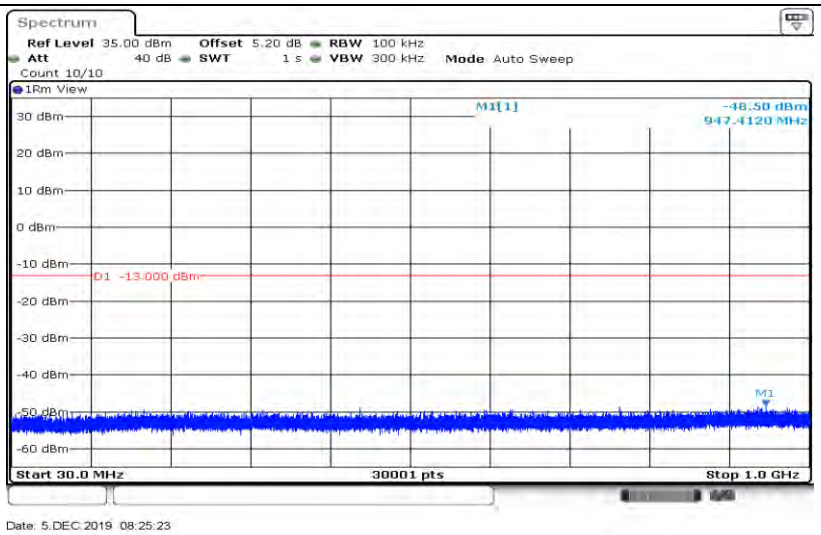
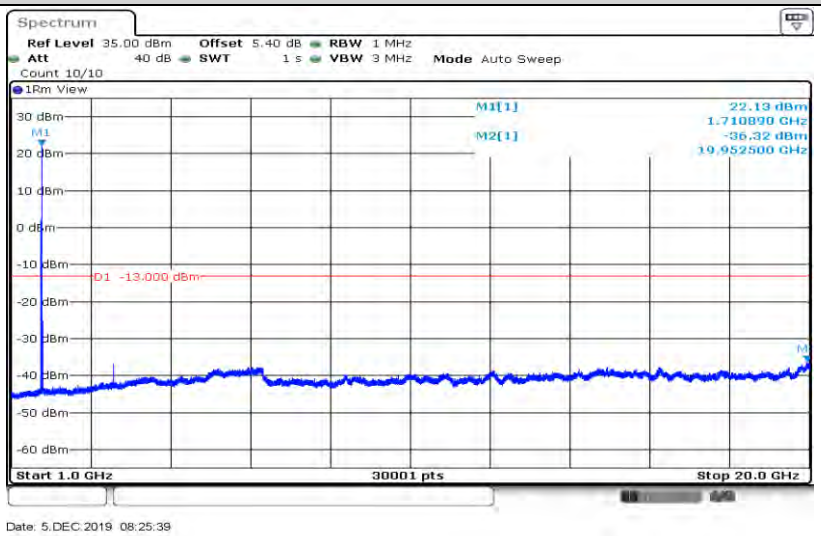


Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



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

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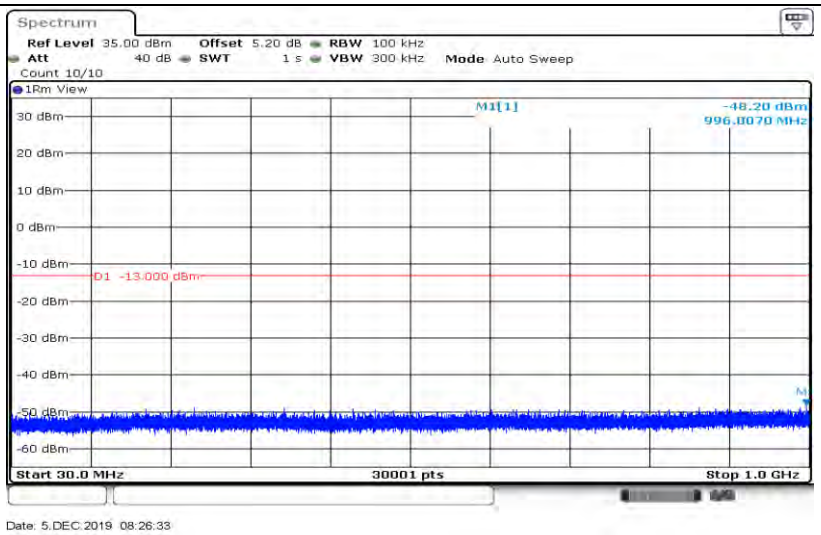
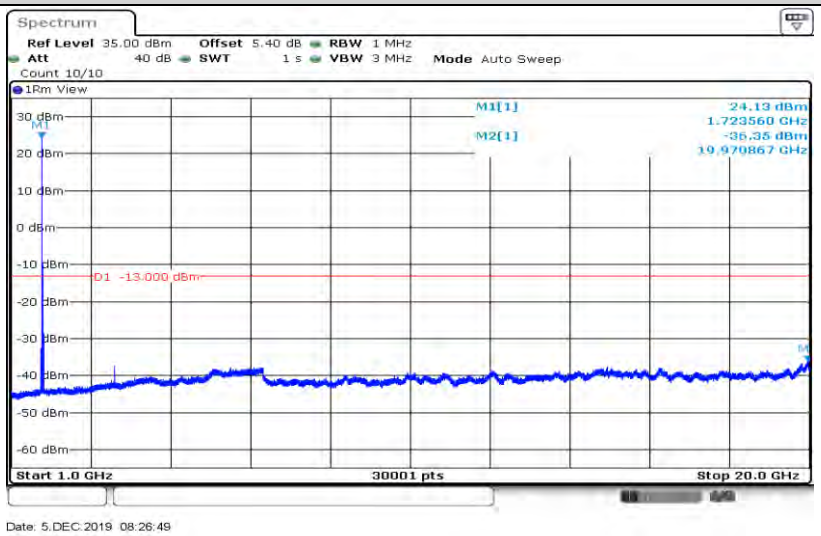


Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz

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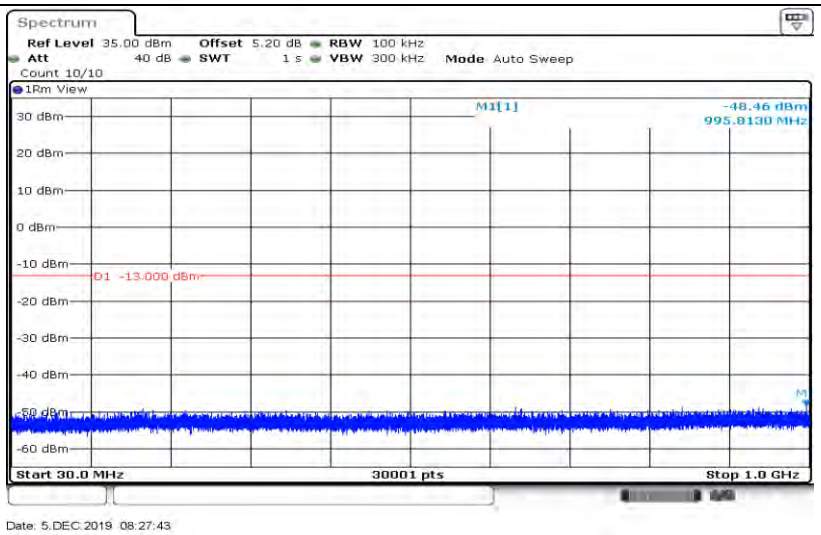
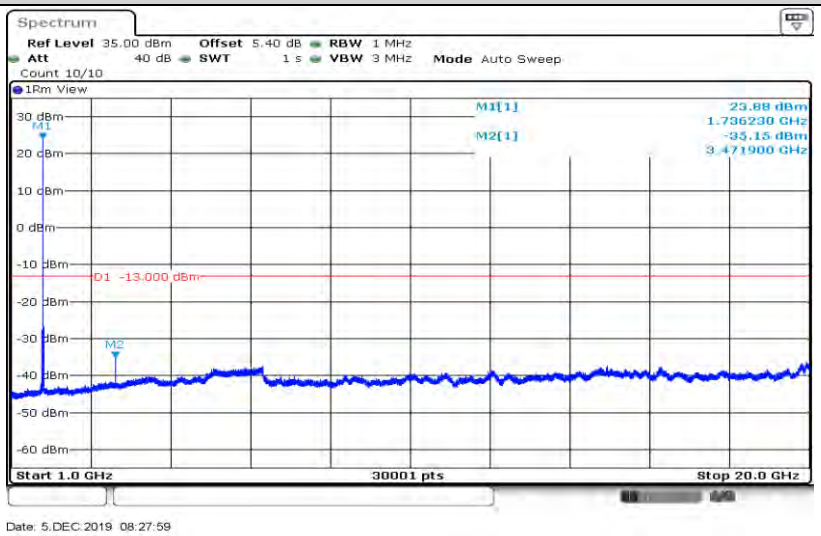


Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
111.2416	-63.81	-13.00	50.81	174	56	Vertical
2700.7401	-36.49	-13.00	23.49	165	75	Vertical
3447.0149	-43.15	-13.00	30.15	198	130	Vertical
5171.0724	-46.89	-13.00	33.89	174	56	Vertical
8617.6873	-47.24	-13.00	34.24	195	0	Vertical
17996.4999	-33.65	-13.00	20.65	251	0	Vertical
43.8232	-64.83	-13.00	51.83	271	34	Horizontal
2713.1426	-35.75	-13.00	22.75	245	358	Horizontal
3447.0149	-37.15	-13.00	24.15	263	287	Horizontal
5170.5724	-49.37	-13.00	36.37	247	254	Horizontal
6894.1298	-54.26	-13.00	41.26	225	0	Horizontal
17997.9999	-38.61	-13.00	25.61	296	0	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.8649	-65.67	-13.00	52.67	178	21	Vertical
2705.9412	-36.58	-13.00	23.58	198	93	Vertical
3422.0141	-40.31	-13.00	27.31	174	124	Vertical
5133.0711	-49.78	-13.00	36.78	185	90	Vertical
8555.1852	-45.98	-13.00	32.98	162	21	Vertical
17998.5000	-33.67	-13.00	20.67	199	290	Vertical
40.9615	-64.34	-13.00	51.34	187	354	Horizontal
2698.7397	-35.06	-13.00	22.06	175	150	Horizontal
3422.0141	-34.48	-13.00	21.48	165	316	Horizontal
5133.0711	-51.95	-13.00	38.95	184	53	Horizontal
8555.1852	-50.29	-13.00	37.29	174	21	Horizontal
16401.4467	-38.15	-13.00	25.15	199	281	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.4056	-65.27	-13.00	52.27	227	221	Vertical
2698.7397	-36.55	-13.00	23.55	263	106	Vertical
3472.5158	-45.57	-13.00	32.57	284	132	Vertical
5208.5736	-49.72	-13.00	36.72	278	254	Vertical
14485.3828	-42.71	-13.00	29.71	261	289	Vertical
17904.9968	-35.19	-13.00	22.19	298	132	Vertical
43.7262	-64.91	-13.00	51.91	184	293	Horizontal
2699.1398	-35.21	-13.00	22.21	195	83	Horizontal
3472.0157	-37.97	-13.00	24.97	178	191	Horizontal
5208.0736	-51.88	-13.00	38.88	196	118	Horizontal
16397.9466	-37.98	-13.00	24.98	184	293	Horizontal
17989.4997	-38.59	-13.00	25.59	175	356	Horizontal

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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	1.80	0.001047	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.20	0.000698	±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	1.70	0.000981	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.00	0.000577	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	2.00	0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	1.30	0.000756	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	2.30	0.001328	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	0.70	0.000404	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-2.20	-0.001261	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-2.90	-0.001662	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	1.30	0.000756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	1.00	0.000581	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	0.90	0.000523	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	2.10	0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	1.30	0.000756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	2.40	0.001395	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	2.10	0.001221	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	1.00	0.000577	±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	0.10	0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.50	0.000289	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.60	0.000346	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.40	-0.000231	±2.5	PASS

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Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-2.50	-0.001433	±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	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	2.30	0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	1.90	0.001105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	1.70	0.000988	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	1.40	0.000814	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	1.20	0.000698	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	1.90	0.001105	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	0.40	0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	1.80	0.001039	±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	20	0.20	0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	0.80	0.000462	±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	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-1.50	-0.000860	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-2.60	-0.001490	±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	20	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-2.00	-0.001146	±2.5	PASS

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