



# Appendix B

## E-UTRA Band 4



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result for Down Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.33	24.78	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.25	24.70	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.44	24.89	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.23	24.68	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.25	24.70	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.25	24.70	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.36	23.81	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.34	24.79	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.24	24.69	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.30	24.75	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.35	24.80	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.25	24.70	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.34	24.79	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.23	23.68	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.20	24.65	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.19	24.64	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.28	24.73	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.33	24.78	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.13	24.58	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.32	24.77	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.21	23.66	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	20.57	23.02	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	20.69	23.14	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.67	23.12	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	20.54	22.99	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	20.56	23.01	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	20.43	22.88	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	19.37	21.82	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.35	22.80	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	20.69	23.14	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	20.57	23.02	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.64	23.09	30.00	PASS



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Band4	1.4MHz	64QAM	20175	3RB#1	20.60	23.05	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	20.56	23.01	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	19.58	22.03	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.64	23.09	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	20.44	22.89	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.54	22.99	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.51	22.96	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	20.52	22.97	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.69	23.14	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	19.46	21.91	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.47	23.92	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.17	23.62	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.42	23.87	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.31	23.76	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.32	23.77	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.30	23.75	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.34	22.79	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.53	23.98	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.23	23.68	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.50	23.95	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.21	23.66	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.31	23.76	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.40	23.85	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.24	22.69	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.40	23.85	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.13	23.58	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.49	23.94	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.16	23.61	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.18	23.63	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.37	23.82	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.26	22.71	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.34	24.79	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.44	24.89	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.31	24.76	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.39	23.84	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.47	23.92	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.41	23.86	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.41	23.86	30.00	PASS



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Band4	3MHz	QPSK	20175	1RB#0	22.34	24.79	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.27	24.72	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.22	24.67	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.36	23.81	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.26	23.71	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.33	23.78	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.36	23.81	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.20	24.65	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.23	24.68	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.14	24.59	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.29	23.74	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.11	23.56	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.31	23.76	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.32	23.77	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.70	23.15	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.41	22.86	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.39	22.84	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	19.37	21.82	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	19.53	21.98	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	19.50	21.95	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.48	21.93	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.67	23.12	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.31	22.76	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.70	23.15	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	19.44	21.89	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	19.60	22.05	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	19.49	21.94	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.49	21.94	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.65	23.10	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.67	23.12	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.70	23.15	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	19.38	21.83	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	19.68	22.13	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	19.38	21.83	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.56	22.01	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.50	23.95	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.49	23.94	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.48	23.93	30.00	PASS



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Band4	3MHz	16QAM	19965	8RB#0	20.40	22.85	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.29	22.74	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.44	22.89	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.35	22.80	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.50	23.95	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.41	23.86	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.35	23.80	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.38	22.83	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.26	22.71	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.34	22.79	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.34	22.79	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.34	23.79	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.40	23.85	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.57	24.02	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.30	22.75	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.34	22.79	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.30	22.75	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.28	22.73	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.41	24.86	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.32	24.77	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.39	24.84	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.43	23.88	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.33	23.78	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.36	23.81	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.34	23.79	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.34	24.79	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.40	24.85	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.28	24.73	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.42	23.87	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.40	23.85	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.32	23.77	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.38	23.83	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.25	24.70	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.30	24.75	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.20	24.65	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.39	23.84	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.41	23.86	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.38	23.83	30.00	PASS



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Band4	5MHz	QPSK	20375	25RB#0	21.42	23.87	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.60	23.05	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.39	22.84	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.67	23.12	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	19.45	21.90	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	19.53	21.98	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	19.32	21.77	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.56	22.01	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.38	22.83	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.31	22.76	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.48	22.93	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	19.51	21.96	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	19.68	22.13	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	19.70	22.15	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.54	21.99	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.62	23.07	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.38	22.83	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.56	23.01	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	19.60	22.05	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	19.61	22.06	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	19.67	22.12	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.57	22.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.53	23.98	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.19	24.64	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.53	23.98	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.33	22.78	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.10	22.55	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.32	22.77	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.30	22.75	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.49	23.94	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.54	23.99	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.38	23.83	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.40	22.85	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.37	22.82	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.28	22.73	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.32	22.77	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.39	23.84	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.44	23.89	30.00	PASS



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Band4	5MHz	16QAM	20375	1RB#24	21.34	23.79	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.35	22.80	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.34	22.79	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.33	22.78	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.35	22.80	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.30	24.75	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.30	24.75	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.26	24.71	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.43	23.88	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.40	23.85	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.33	23.78	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.39	23.84	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.39	24.84	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.28	24.73	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.29	24.74	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.44	23.89	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.36	23.81	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.34	23.79	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.35	23.80	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.25	24.70	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.35	24.80	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.27	24.72	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.30	23.75	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.26	23.71	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.31	23.76	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.44	23.89	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.52	22.97	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.62	23.07	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.52	22.97	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	19.42	21.87	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	19.38	21.83	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	19.61	22.06	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.52	21.97	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.54	22.99	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.40	22.85	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.46	22.91	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	19.42	21.87	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	19.54	21.99	30.00	PASS



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Band4	10MHz	64QAM	20175	25RB#25	19.50	21.95	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.58	22.03	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.39	22.84	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.46	22.91	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.54	22.99	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	19.40	21.85	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	19.44	21.89	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	19.54	21.99	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.65	22.10	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.43	23.88	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.22	23.67	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.37	23.82	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.39	22.84	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.38	22.83	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.29	22.74	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.35	22.80	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.53	23.98	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.27	23.72	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.41	23.86	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.40	22.85	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.32	22.77	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.30	22.75	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.30	22.75	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.60	24.05	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.30	23.75	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.41	23.86	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.22	22.67	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.20	22.65	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.26	22.71	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.35	22.80	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.35	24.80	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.38	24.83	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.26	24.71	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	21.32	23.77	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	21.35	23.80	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	21.26	23.71	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.36	23.81	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.41	24.86	30.00	PASS



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Band4	15MHz	QPSK	20175	1RB#38	22.30	24.75	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.31	24.76	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.35	23.80	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	21.28	23.73	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	21.30	23.75	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.38	23.83	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.27	24.72	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.37	24.82	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.23	24.68	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	21.53	23.98	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.46	23.91	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.29	23.74	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.39	23.84	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.31	22.76	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.47	22.92	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.47	22.92	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	19.37	21.82	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	19.52	21.97	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	19.41	21.86	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.69	22.14	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.47	22.92	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.42	22.87	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.50	22.95	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	19.44	21.89	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	19.42	21.87	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	19.36	21.81	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.32	21.77	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.37	22.82	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.67	23.12	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.39	22.84	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	19.57	22.02	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	19.45	21.90	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	19.56	22.01	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.40	21.85	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.42	23.87	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.48	23.93	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.35	23.80	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	20.25	22.70	30.00	PASS



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Band4	15MHz	16QAM	20025	36RB#18	20.41	22.86	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	20.21	22.66	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.30	22.75	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.49	23.94	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.61	24.06	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.42	23.87	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.29	22.74	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.21	22.66	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.25	22.70	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.33	22.78	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.34	23.79	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.52	23.97	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.29	23.74	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	20.45	22.90	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	20.39	22.84	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.24	22.69	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.34	22.79	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.56	25.01	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.30	24.75	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.41	24.86	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.32	23.77	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.22	23.67	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.41	23.86	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.28	23.73	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.51	24.96	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.24	24.69	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.35	24.80	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.52	23.97	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.36	23.81	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.36	23.81	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.45	23.90	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.50	24.95	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.35	24.80	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.48	24.93	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.40	23.85	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.29	23.74	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.39	23.84	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.35	23.80	30.00	PASS



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Band4	20MHz	64QAM	20050	1RB#0	20.56	23.01	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.41	22.86	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.46	22.91	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	19.55	22.00	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	19.67	22.12	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	19.57	22.02	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.63	22.08	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.32	22.77	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.55	23.00	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.32	22.77	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	19.32	21.77	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	19.44	21.89	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	19.44	21.89	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.42	21.87	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.42	22.87	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.35	22.80	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.57	23.02	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	19.60	22.05	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	19.66	22.11	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	19.32	21.77	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.36	21.81	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.78	24.23	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.18	23.63	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.70	24.15	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.25	22.70	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.16	22.61	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.36	22.81	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.22	22.67	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.59	24.04	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.36	23.81	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.46	23.91	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.49	22.94	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.31	22.76	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.32	22.77	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.40	22.85	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.58	24.03	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.21	23.66	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.59	24.04	30.00	PASS



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Band4	20MHz	16QAM	20300	50RB#0	20.36	22.81	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.24	22.69	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.35	22.80	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.41	22.86	30.00	PASS

## 1.2. Test Result for Up Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	21.47	21.09	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	21.43	21.05	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	21.68	21.30	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.61	21.23	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	21.64	21.26	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.67	21.29	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	20.63	20.25	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.67	21.29	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.57	21.19	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.73	21.35	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.77	21.39	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.79	21.41	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.65	21.27	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.85	20.47	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	21.62	21.24	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.51	21.13	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.66	21.28	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.50	21.12	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	21.71	21.33	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	21.69	21.31	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.56	20.18	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	19.56	19.18	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	19.57	19.19	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	19.58	19.20	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	19.44	19.06	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	19.46	19.08	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	19.73	19.35	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	18.45	18.07	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	19.94	19.56	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	19.49	19.11	30.00	PASS



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Band4	1.4MHz	64QAM	20175	1RB#5	20.04	19.66	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	19.67	19.29	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	19.65	19.27	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	19.63	19.25	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	18.68	18.30	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	19.92	19.54	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	19.61	19.23	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	19.75	19.37	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	19.70	19.32	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	19.70	19.32	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	19.67	19.29	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	18.71	18.33	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	20.61	20.23	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	20.38	20.00	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	20.86	20.48	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	20.48	20.10	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	20.77	20.39	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	20.76	20.38	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.48	19.10	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	20.74	20.36	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	20.64	20.26	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.80	20.42	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.67	20.29	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	20.65	20.27	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.82	20.44	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	19.58	19.20	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	20.79	20.41	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	20.40	20.02	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.73	20.35	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	20.58	20.20	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	20.59	20.21	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	20.77	20.39	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.61	19.23	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.60	21.22	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	21.73	21.35	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.77	21.39	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	20.59	20.21	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	20.72	20.34	30.00	PASS



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Band4	3MHz	QPSK	19965	8RB#7	20.73	20.35	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.85	20.47	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	21.60	21.22	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	21.69	21.31	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	21.61	21.23	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	20.75	20.37	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	20.78	20.40	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	20.75	20.37	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.67	20.29	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	21.75	21.37	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	21.77	21.39	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	21.52	21.14	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	20.69	20.31	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	20.62	20.24	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.57	20.19	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.63	20.25	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	19.71	19.33	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	19.74	19.36	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	19.90	19.52	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	18.51	18.13	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	18.47	18.09	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	18.48	18.10	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	18.55	18.17	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	19.85	19.47	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	19.97	19.59	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	19.79	19.41	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	18.73	18.35	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	18.68	18.30	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	18.84	18.46	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	18.63	18.25	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	19.88	19.50	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	19.86	19.48	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	19.71	19.33	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	18.71	18.33	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	18.72	18.34	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	18.66	18.28	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	18.68	18.30	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.73	20.35	30.00	PASS



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Band4	3MHz	16QAM	19965	1RB#8	20.60	20.22	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	20.72	20.34	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	19.64	19.26	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	19.72	19.34	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	19.52	19.14	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.54	19.16	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.74	20.36	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	20.86	20.48	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.62	20.24	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	19.72	19.34	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	19.78	19.40	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	19.76	19.38	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.58	19.20	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.82	20.44	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.75	20.37	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.52	20.14	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	19.71	19.33	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	19.64	19.26	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	19.60	19.22	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	19.59	19.21	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.43	21.05	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	21.50	21.12	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.62	21.24	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	20.64	20.26	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	20.63	20.25	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	20.61	20.23	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.69	20.31	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.71	21.33	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.61	21.23	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	21.52	21.14	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.61	20.23	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.66	20.28	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.79	20.41	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.81	20.43	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.60	21.22	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.46	21.08	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	21.59	21.21	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.83	20.45	30.00	PASS



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Band4	5MHz	QPSK	20375	12RB#6	20.60	20.22	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.72	20.34	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.68	20.30	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	19.70	19.32	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	19.47	19.09	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	19.75	19.37	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	18.64	18.26	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	18.60	18.22	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	18.61	18.23	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	18.66	18.28	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	19.96	19.58	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	19.78	19.40	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	19.76	19.38	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	18.63	18.25	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	18.68	18.30	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	18.85	18.47	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	18.72	18.34	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	19.84	19.46	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	19.62	19.24	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	19.90	19.52	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	18.71	18.33	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	18.55	18.17	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	18.55	18.17	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	18.67	18.29	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.69	20.31	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.44	20.06	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	20.75	20.37	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	19.66	19.28	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	19.62	19.24	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	19.63	19.25	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	19.69	19.31	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	20.73	20.35	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.62	20.24	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	20.56	20.18	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	19.57	19.19	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	19.60	19.22	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	19.78	19.40	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	19.72	19.34	30.00	PASS



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Band4	5MHz	16QAM	20375	1RB#0	20.62	20.24	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.59	20.21	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.63	20.25	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	19.65	19.27	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	19.59	19.21	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	19.61	19.23	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.68	19.30	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.57	21.19	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.61	21.23	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.68	21.30	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	20.79	20.41	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	20.74	20.36	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	20.64	20.26	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	20.78	20.40	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.69	21.31	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.75	21.37	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.55	21.17	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	20.73	20.35	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	20.66	20.28	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	20.74	20.36	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.81	20.43	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	21.75	21.37	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.53	21.15	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	21.56	21.18	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	20.79	20.41	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	20.77	20.39	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	20.79	20.41	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	20.77	20.39	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	19.75	19.37	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	19.49	19.11	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	19.72	19.34	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	18.67	18.29	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	18.65	18.27	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	18.63	18.25	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	18.71	18.33	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	19.96	19.58	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	19.70	19.32	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	19.80	19.42	30.00	PASS



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Band4	10MHz	64QAM	20175	25RB#0	18.73	18.35	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	18.70	18.32	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	18.80	18.42	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	18.75	18.37	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	19.94	19.56	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	19.56	19.18	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	19.71	19.33	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	18.70	18.32	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	18.55	18.17	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	18.62	18.24	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	18.71	18.33	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	20.72	20.34	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	20.51	20.13	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	20.80	20.42	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	19.70	19.32	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	19.68	19.30	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	19.64	19.26	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	19.69	19.31	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	20.74	20.36	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	20.52	20.14	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	20.56	20.18	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	19.74	19.36	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	19.63	19.25	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	19.72	19.34	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	19.72	19.34	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	20.70	20.32	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	20.39	20.01	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	20.58	20.20	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	19.73	19.35	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	19.54	19.16	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	19.78	19.40	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	19.66	19.28	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.49	21.11	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	21.83	21.45	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.68	21.30	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	20.79	20.41	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	20.62	20.24	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	20.66	20.28	30.00	PASS



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Band4	15MHz	QPSK	20025	75RB#0	20.77	20.39	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.68	21.30	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.74	21.36	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.77	21.39	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	20.83	20.45	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	20.82	20.44	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	20.73	20.35	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	20.72	20.34	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	21.64	21.26	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.87	21.49	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.56	21.18	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	20.78	20.40	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	20.75	20.37	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	20.66	20.28	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	20.77	20.39	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	19.68	19.30	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	19.79	19.41	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	19.82	19.44	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	18.68	18.30	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	18.55	18.17	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	18.64	18.26	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	18.72	18.34	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	19.81	19.43	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.06	19.68	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	19.87	19.49	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	18.80	18.42	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	18.82	18.44	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	18.79	18.41	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	18.77	18.39	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	19.85	19.47	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	19.96	19.58	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	19.82	19.44	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	18.78	18.40	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#18	18.71	18.33	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	18.71	18.33	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	18.80	18.42	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	20.52	20.14	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	20.70	20.32	30.00	PASS



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Band4	15MHz	16QAM	20025	1RB#74	20.80	20.42	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	19.68	19.30	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	19.55	19.17	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	19.66	19.28	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	19.76	19.38	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	20.71	20.33	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.79	20.41	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	20.85	20.47	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	19.77	19.39	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	19.77	19.39	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	19.71	19.33	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	19.69	19.31	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	20.81	20.43	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	20.85	20.47	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.64	20.26	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	19.77	19.39	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	19.71	19.33	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	19.64	19.26	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	19.73	19.35	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	21.79	21.41	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	21.70	21.32	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.84	21.46	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	20.80	20.42	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	20.63	20.25	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	20.65	20.27	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	20.81	20.43	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.77	21.39	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	21.74	21.36	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	21.78	21.40	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	20.72	20.34	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	20.69	20.31	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	20.91	20.53	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.77	20.39	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.81	21.43	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	21.60	21.22	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.73	21.35	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	20.81	20.43	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	20.76	20.38	30.00	PASS



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Band4	20MHz	QPSK	20300	50RB#50	20.81	20.43	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	20.90	20.52	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	19.75	19.37	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	19.56	19.18	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.04	19.66	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	18.73	18.35	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	18.54	18.16	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	18.63	18.25	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	18.68	18.30	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	19.88	19.50	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	19.63	19.25	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.05	19.67	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	18.80	18.42	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	18.72	18.34	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	18.79	18.41	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	18.78	18.40	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	19.97	19.59	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	19.42	19.04	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	19.96	19.58	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	18.78	18.40	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	18.71	18.33	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	18.65	18.27	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	18.73	18.35	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	20.98	20.60	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	20.61	20.23	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	20.88	20.50	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	19.73	19.35	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	19.54	19.16	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	19.62	19.24	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	19.70	19.32	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	20.84	20.46	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	20.41	20.03	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.00	20.62	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	19.70	19.32	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	19.65	19.27	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	19.70	19.32	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	19.74	19.36	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	20.90	20.52	30.00	PASS



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Band4	20MHz	16QAM	20300	1RB#49	20.49	20.11	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	20.87	20.49	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	19.73	19.35	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	19.70	19.32	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	19.55	19.17	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	19.68	19.30	30.00	PASS

**Remark:**

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

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



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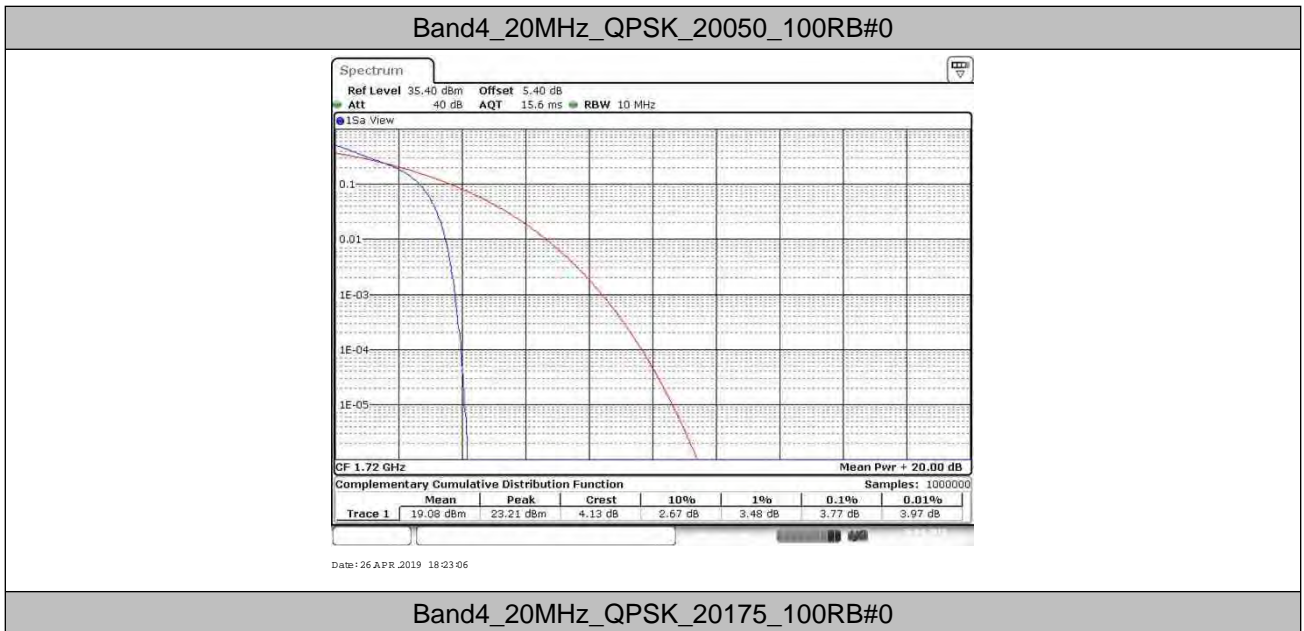


## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	3.77	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	3.97	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	3.88	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	5.54	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.12	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	5.68	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.57	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.71	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.59	13	PASS

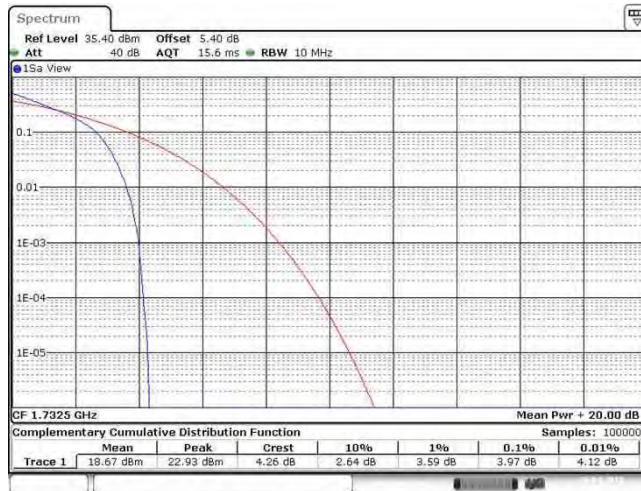
### 2.2. Test Plots



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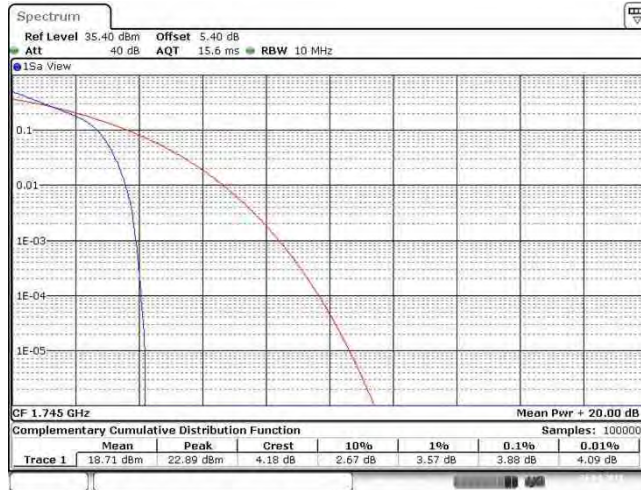
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Date: 26 APR. 2019 18:24:02

**Band4\_20MHz\_QPSK\_20300\_100RB#0**

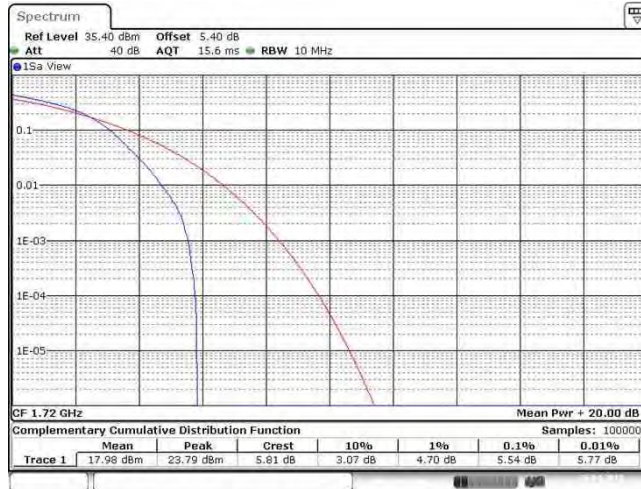


Date: 26 APR. 2019 18:24:57

**Band4\_20MHz\_64QAM\_20050\_100RB#0**

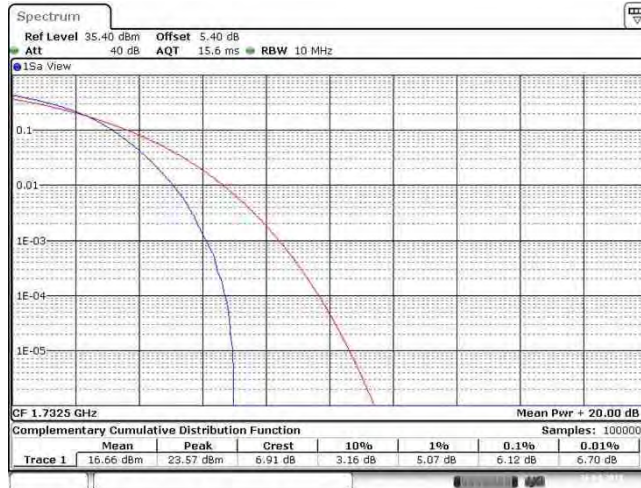


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Date: 26 APR. 2019 18:23:43

**Band4\_20MHz\_64QAM\_20175\_100RB#0**



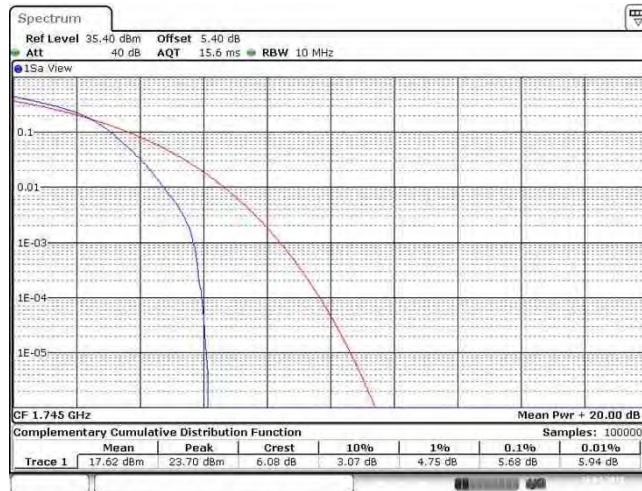
Date: 26 APR. 2019 18:24:38

**Band4\_20MHz\_64QAM\_20300\_100RB#0**



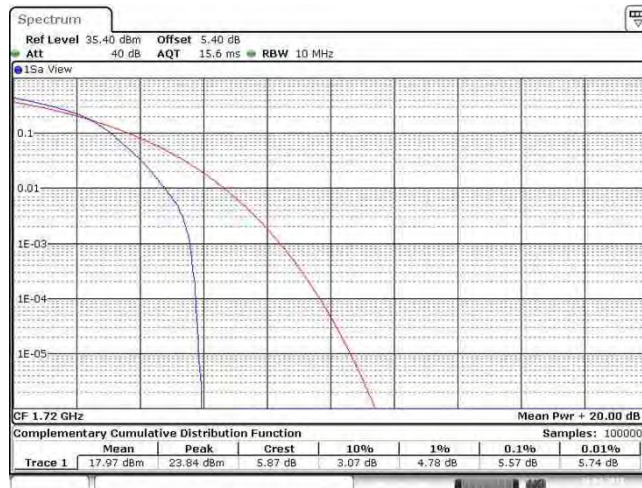
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Date: 26 APR. 2019 18:25:34

**Band4\_20MHz\_16QAM\_20050\_100RB#0**

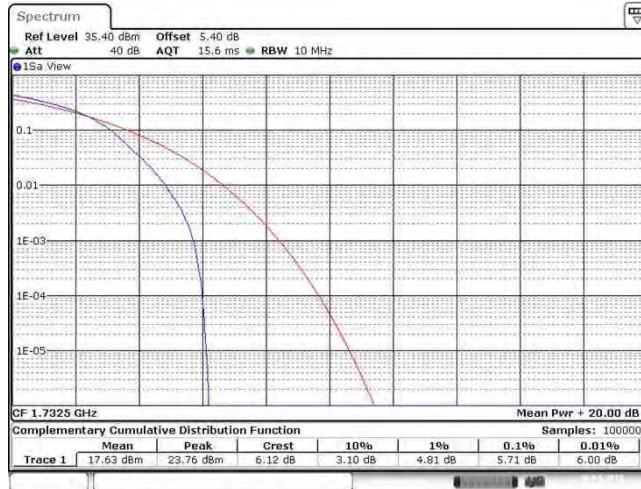


Date: 26 APR. 2019 18:23:25

**Band4\_20MHz\_16QAM\_20175\_100RB#0**

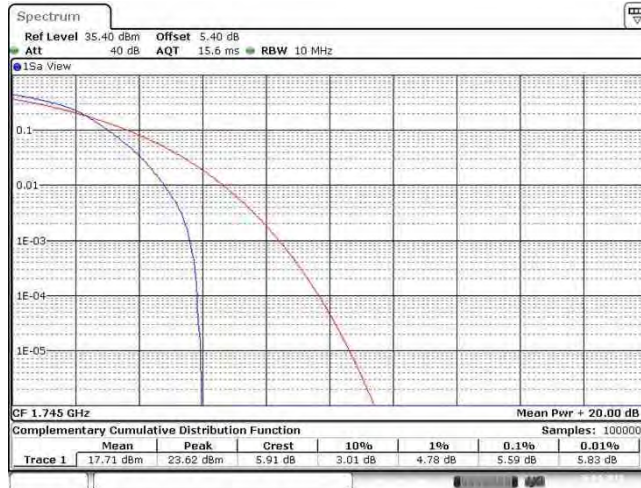


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Date: 26 APR. 2019 18:24:20

**Band4\_20MHz\_16QAM\_20300\_100RB#0**



Date: 26 APR. 2019 18:25:45



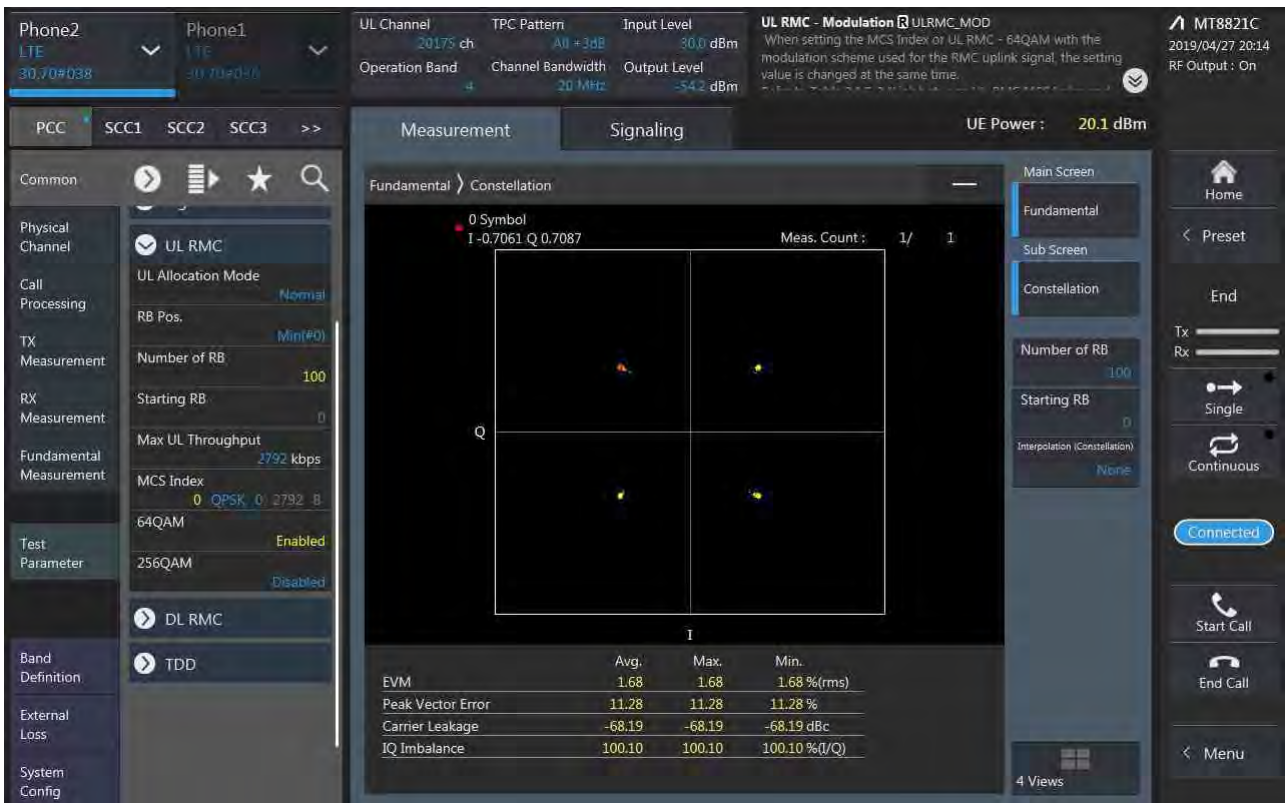
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### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE Band 4

#### 3.2. Test Mode = LTE /TM1 20MHz

#### 3.2.1. Test Channel = MCH

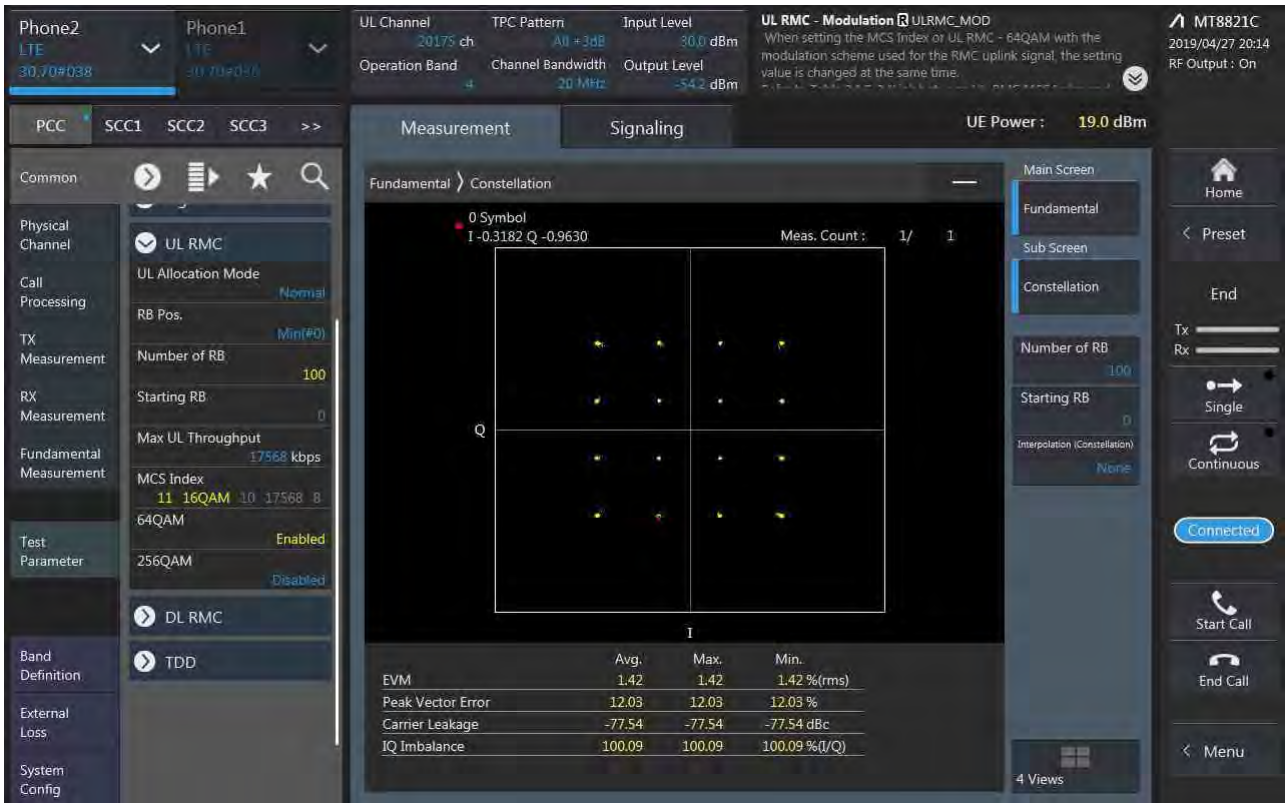


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### 3.3. Test Mode = LTE /TM2 20MHz

#### 3.3.1. Test Channel = MCH

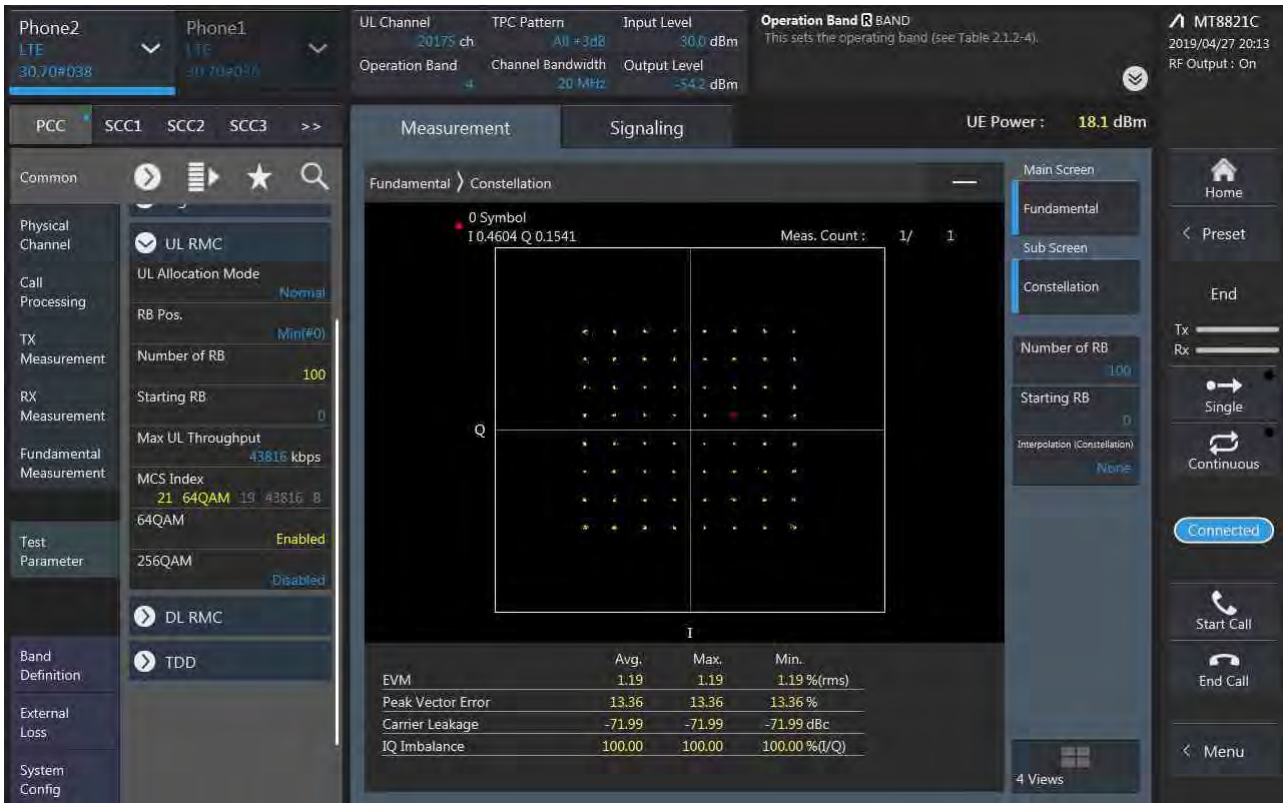


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### 3.4. Test Mode = LTE /TM3 20MHz

#### 3.4.1. Test Channel = MCH





## 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	1.103	1.251	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.106	1.254	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.100	1.251	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.103	1.251	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.094	1.251	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.100	1.257	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.245	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.100	1.251	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.100	1.248	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	2.988	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.703	2.988	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.976	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.697	2.952	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.703	2.970	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.703	2.970	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.691	2.964	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.697	2.976	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.691	2.970	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.860	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.900	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.880	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.486	4.900	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.890	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.466	4.930	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.940	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.910	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.740	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.951	9.800	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.951	9.820	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.951	9.780	PASS



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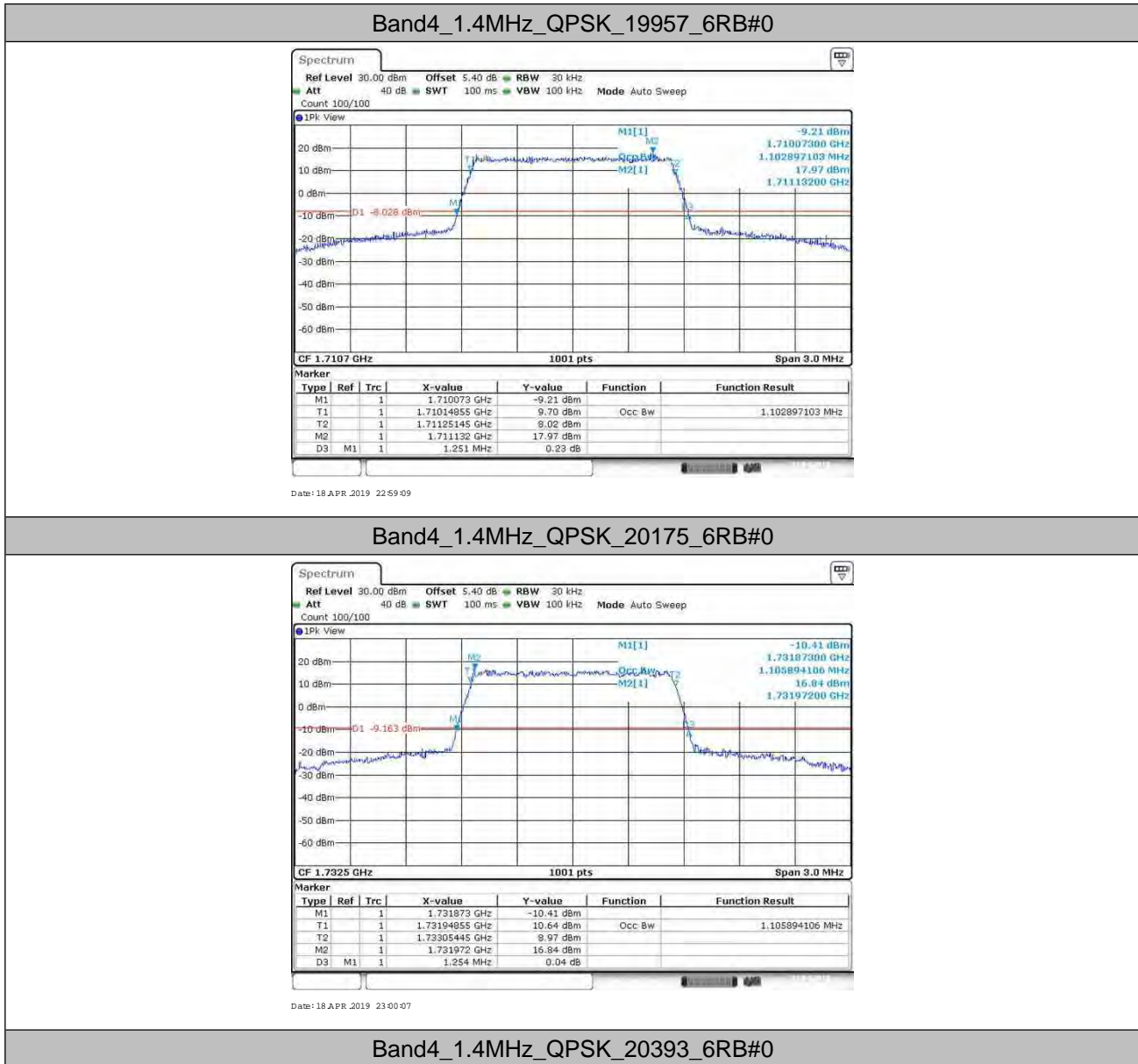


Band4	10MHz	64QAM	20175	50RB#0	8.951	9.780	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.951	9.800	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.951	9.800	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.971	9.820	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.951	9.840	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.516	15.090	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.546	15.270	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.546	15.120	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.516	14.910	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.546	14.970	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.487	15.180	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.487	15.060	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.487	14.970	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.516	15.060	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.942	19.760	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.982	19.760	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.942	19.880	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.902	19.760	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.982	19.840	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.982	19.840	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.942	19.680	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.982	19.800	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.982	19.840	PASS



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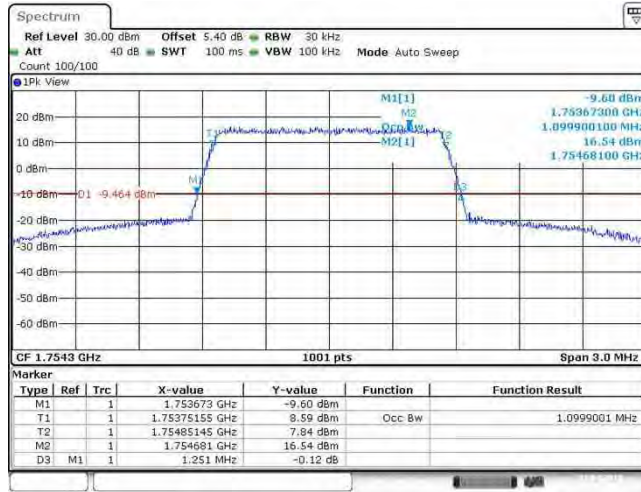
## 4.2. Test Plots



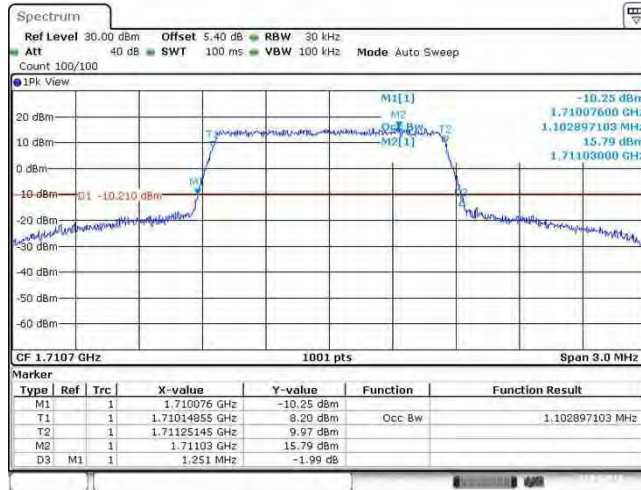
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 Shenzhen Branch: 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



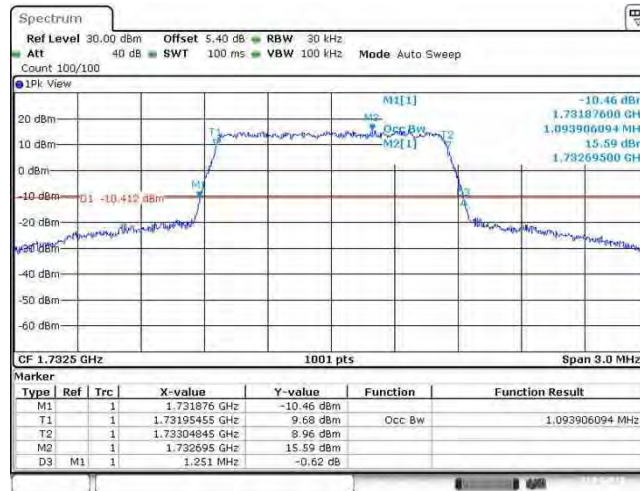
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**Band4\_1.4MHz\_64QAM\_20175\_6RB#0**

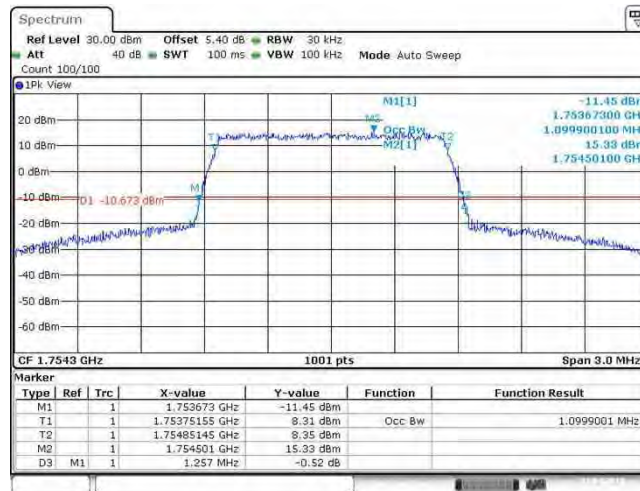


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Date: 18 APR. 2019 23:00:46

**Band4\_1.4MHz\_64QAM\_20393\_6RB#0**

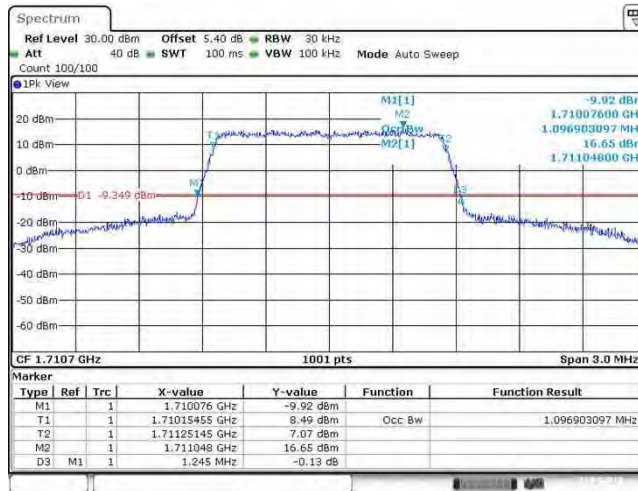


Date: 18 APR. 2019 23:01:45

**Band4\_1.4MHz\_16QAM\_19957\_6RB#0**

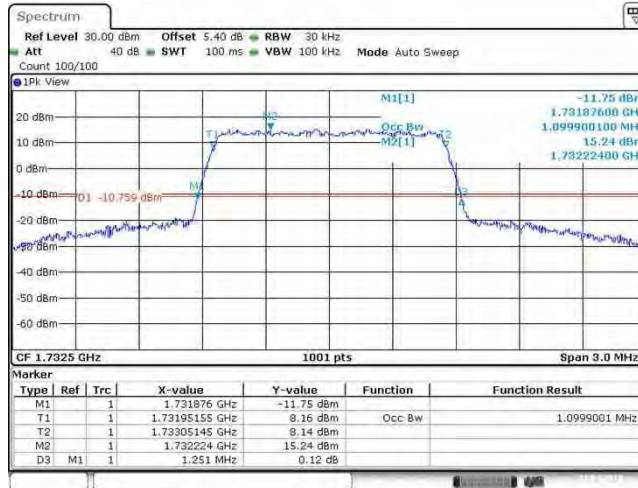


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Date: 18 APR. 2019 22:59:28

**Band4\_1.4MHz\_16QAM\_20175\_6RB#0**

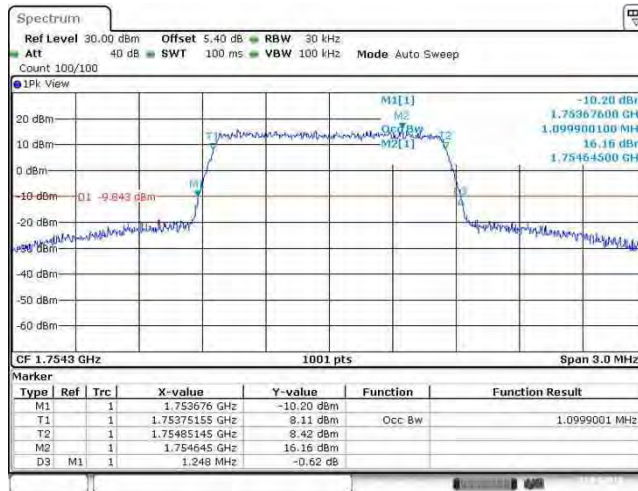


Date: 18 APR. 2019 23:00:27

**Band4\_1.4MHz\_16QAM\_20393\_6RB#0**

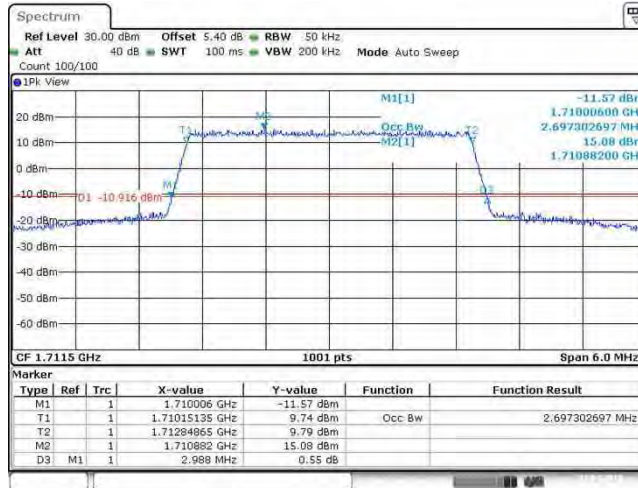


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Date: 18 APR 2019 23:01:25

**Band4\_3MHz\_QPSK\_19965\_15RB#0**

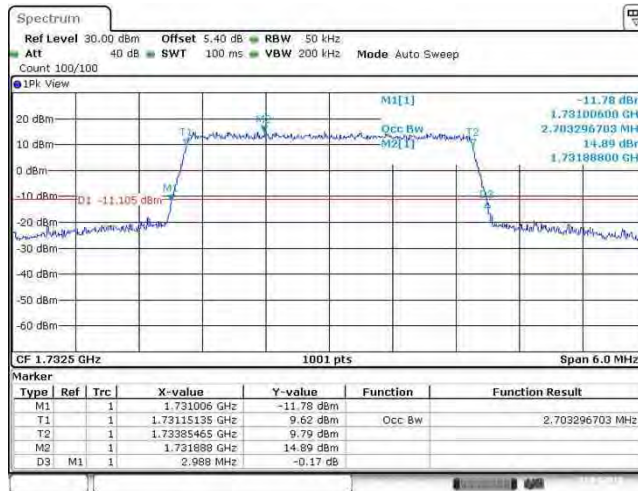


Date: 18 APR 2019 23:02:06

**Band4\_3MHz\_QPSK\_20175\_15RB#0**

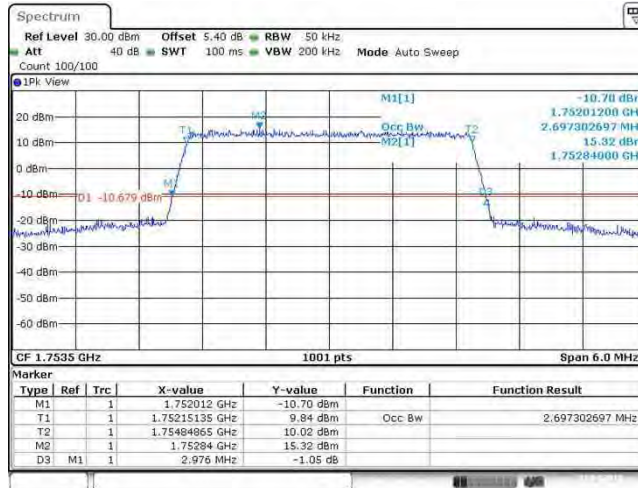


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Date: 18 APR 2019 23:03:06

**Band4\_3MHz\_QPSK\_20385\_15RB#0**



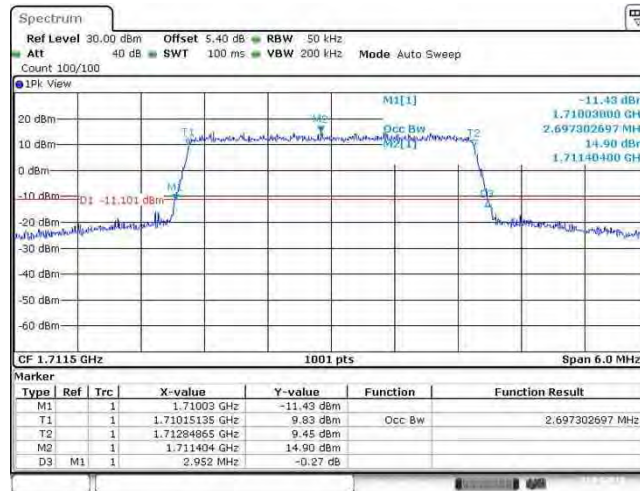
Date: 18 APR 2019 23:04:05

**Band4\_3MHz\_64QAM\_19965\_15RB#0**



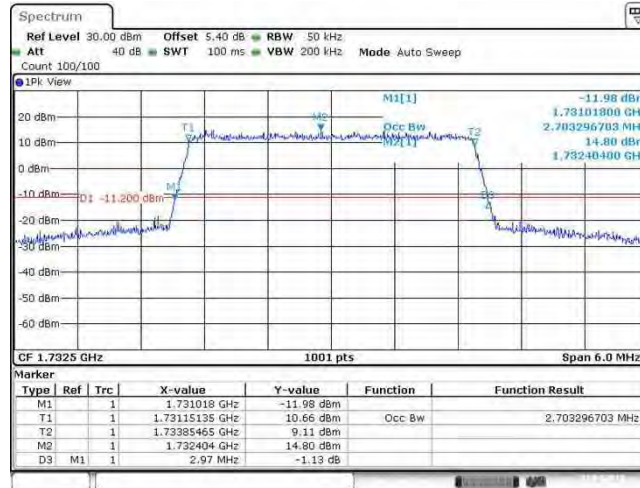
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Date: 18 APR 2019 23:02:46

**Band4\_3MHz\_64QAM\_20175\_15RB#0**

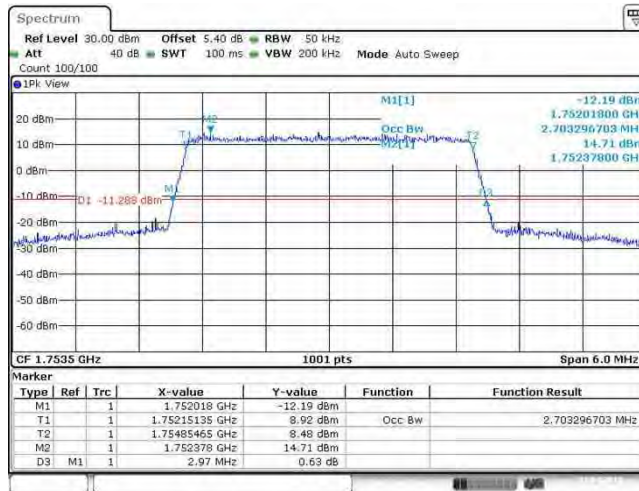


Date: 18 APR 2019 23:03:45

**Band4\_3MHz\_64QAM\_20385\_15RB#0**

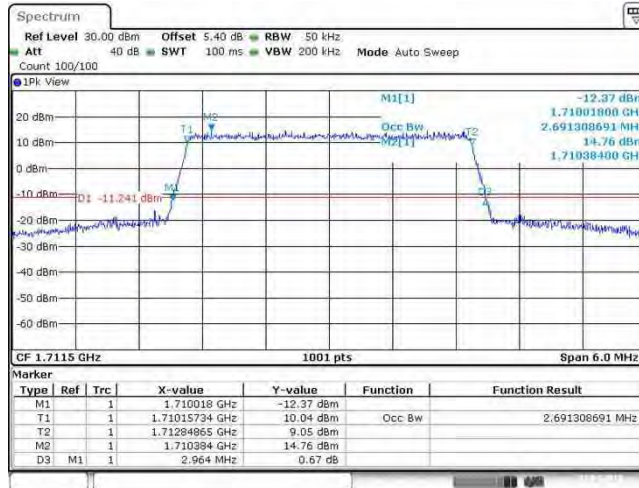


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Date: 18 APR 2019 23:04:43

**Band4\_3MHz\_16QAM\_19965\_15RB#0**

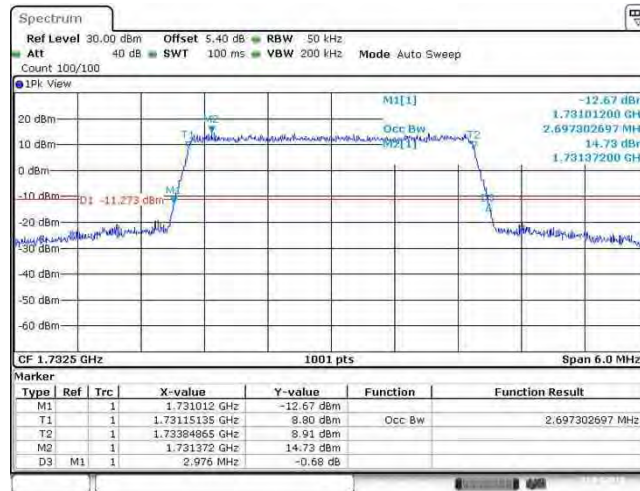


Date: 18 APR 2019 23:02:26

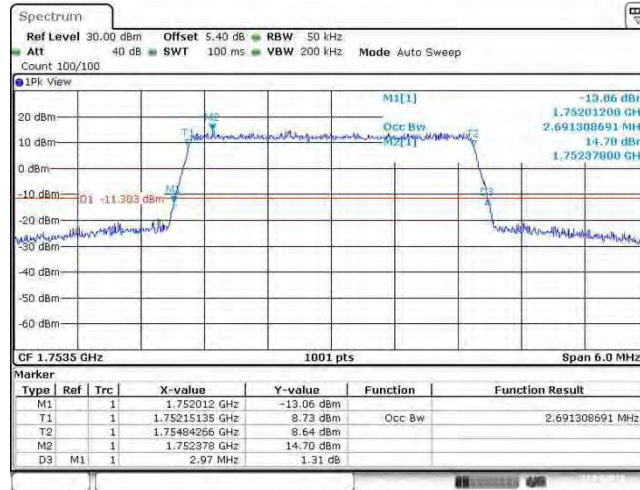
**Band4\_3MHz\_16QAM\_20175\_15RB#0**



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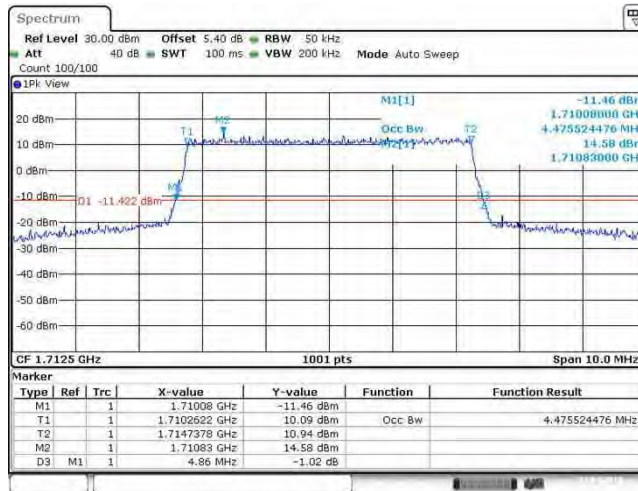
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**Band4\_5MHz\_QPSK\_19975\_25RB#0**

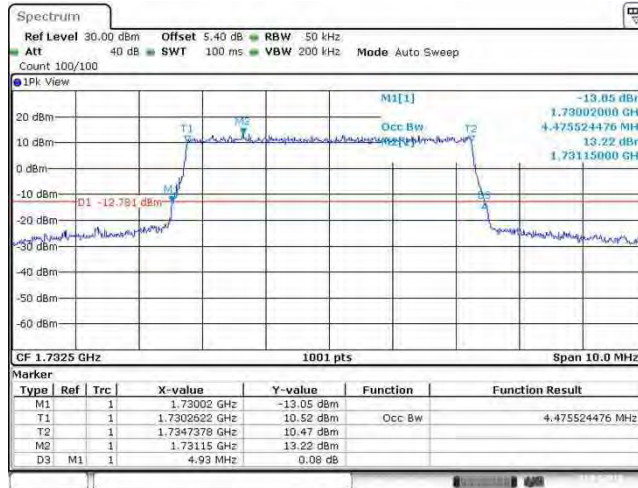


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Date: 18 APR 2019 23:05:05

**Band4\_5MHz\_QPSK\_20175\_25RB#0**

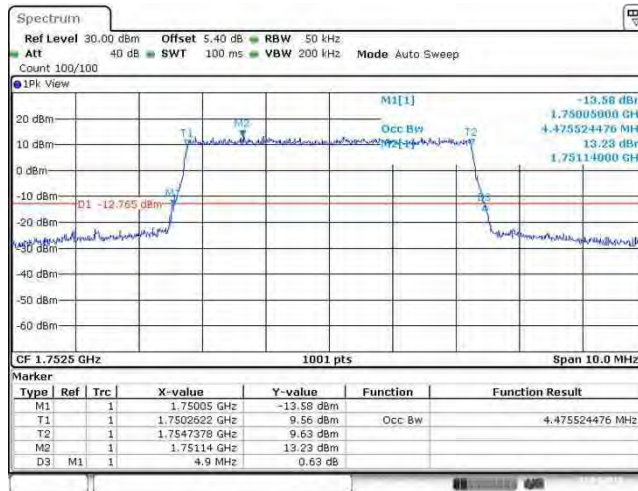


Date: 18 APR 2019 23:06:04

**Band4\_5MHz\_QPSK\_20375\_25RB#0**

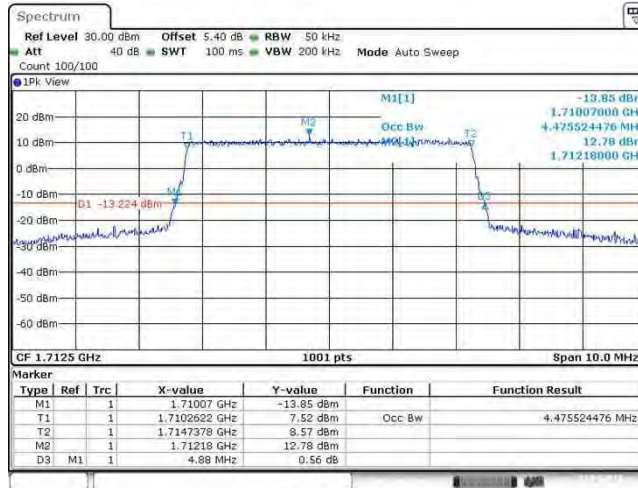


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Date: 18 APR 2019 23:07:02

**Band4\_5MHz\_64QAM\_19975\_25RB#0**

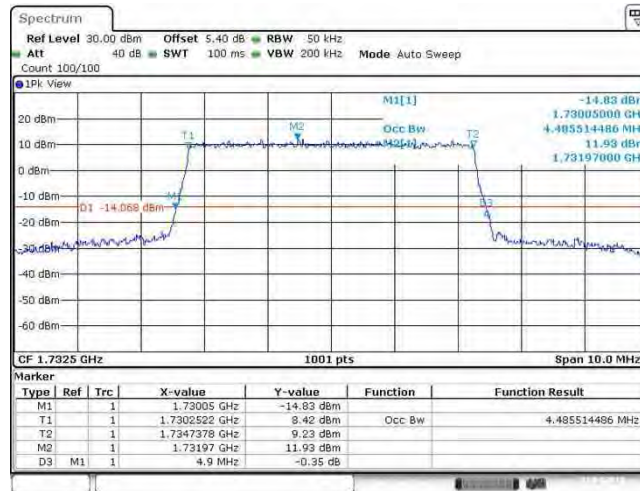


Date: 18 APR 2019 23:05:44

**Band4\_5MHz\_64QAM\_20175\_25RB#0**

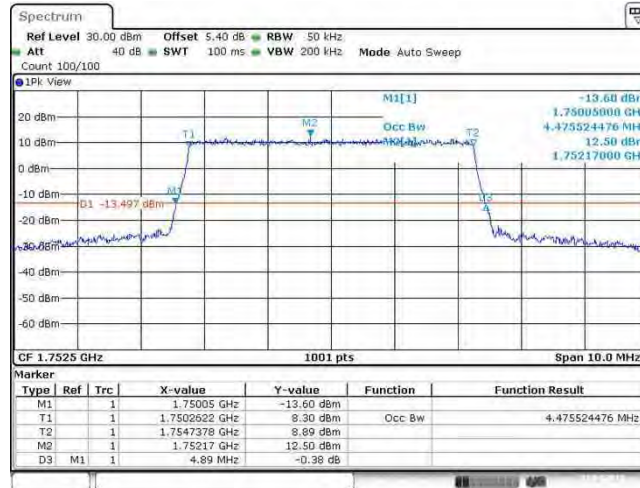


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Date: 18 APR 2019 23:06:43

**Band4\_5MHz\_64QAM\_20375\_25RB#0**

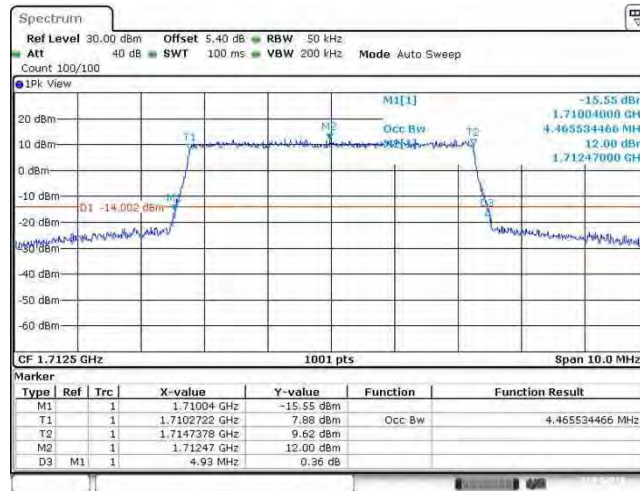


Date: 18 APR 2019 23:07:41

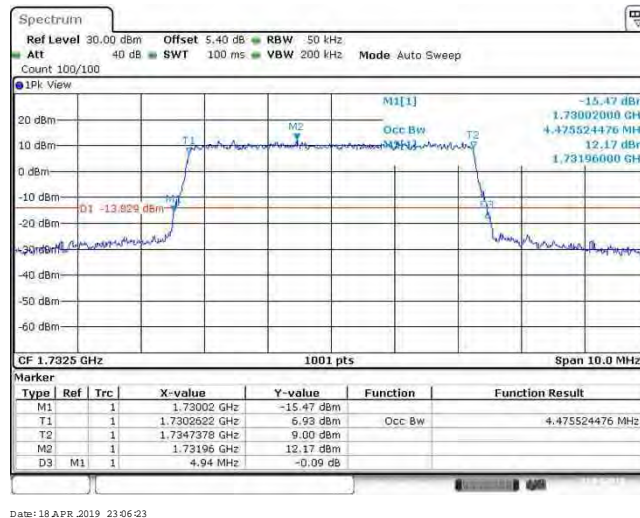
**Band4\_5MHz\_16QAM\_19975\_25RB#0**



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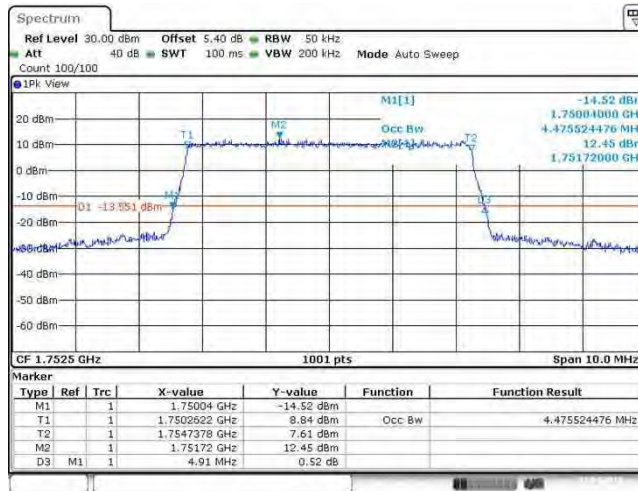
**Band4\_5MHz\_16QAM\_20175\_25RB#0**



**Band4\_5MHz\_16QAM\_20375\_25RB#0**

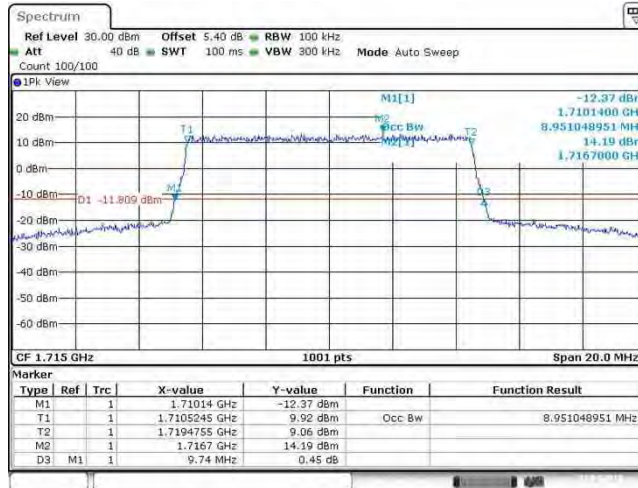


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Date: 18 APR 2019 23:07:22

**Band4\_10MHz\_QPSK\_20000\_50RB#0**



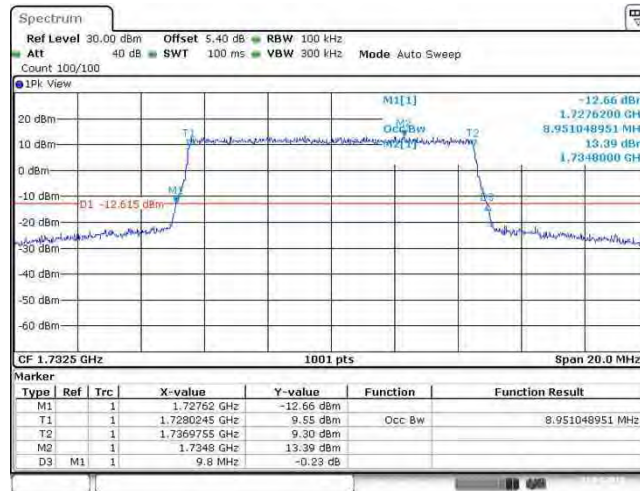
Date: 18 APR 2019 23:08:03

**Band4\_10MHz\_QPSK\_20175\_50RB#0**



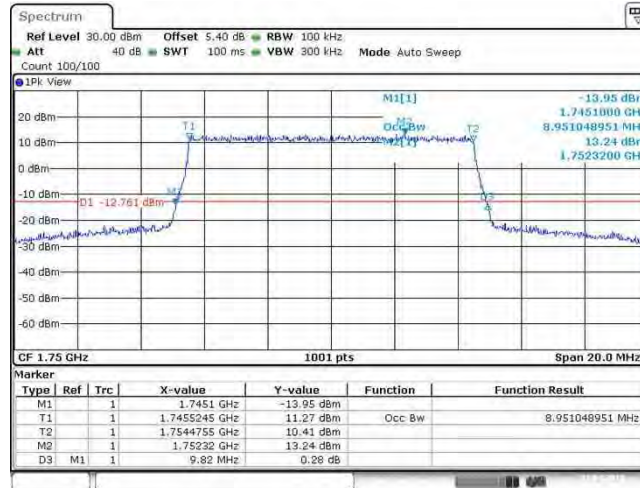
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Date: 18 APR 2019 23:09:01

**Band4\_10MHz\_QPSK\_20350\_50RB#0**



Date: 18 APR 2019 23:10:00

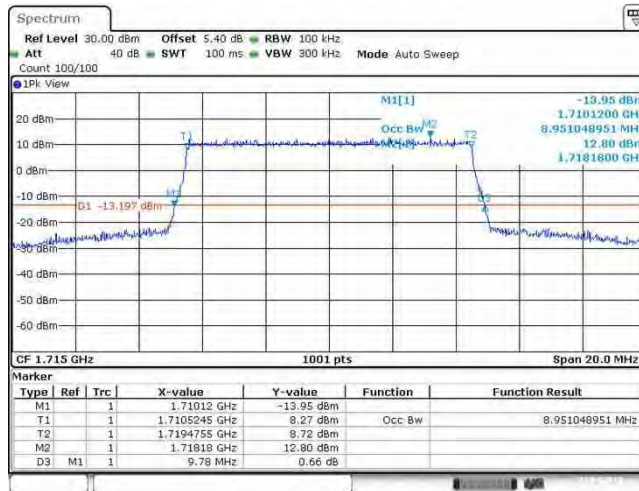
**Band4\_10MHz\_64QAM\_20000\_50RB#0**



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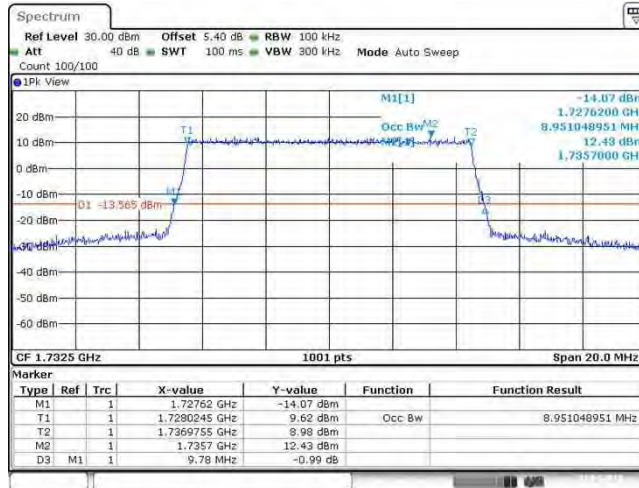
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Date: 18 APR 2019 23:08:42

**Band4\_10MHz\_64QAM\_20175\_50RB#**

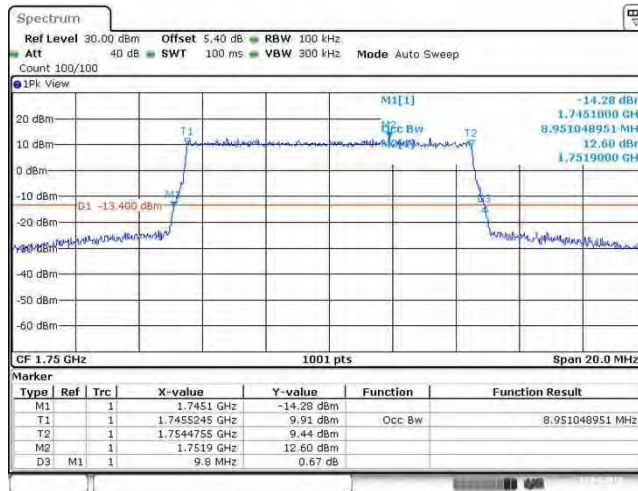


Date: 18 APR 2019 23:09:40

**Band4\_10MHz\_64QAM\_20350\_50RB#**

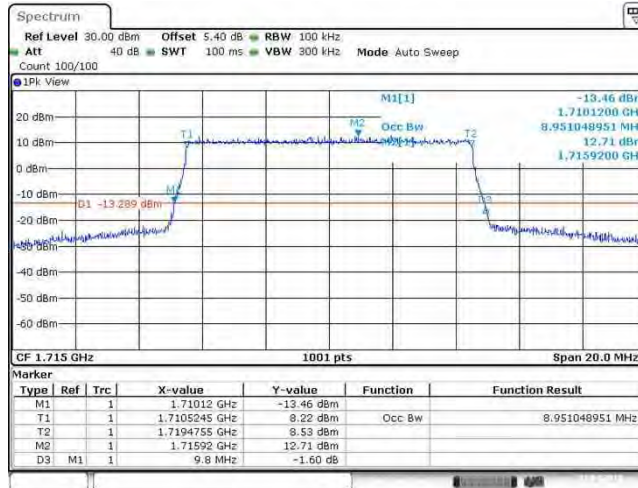


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Date: 18 APR 2019 23:00:39

**Band4\_10MHz\_16QAM\_20000\_50RB#**

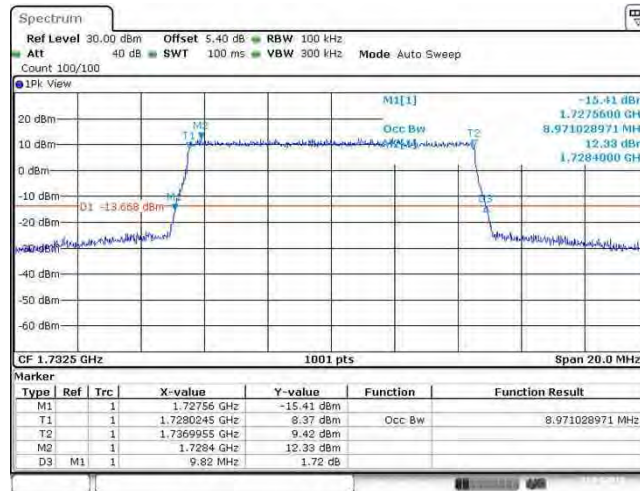


Date: 18 APR 2019 23:08:22

**Band4\_10MHz\_16QAM\_20175\_50RB#**

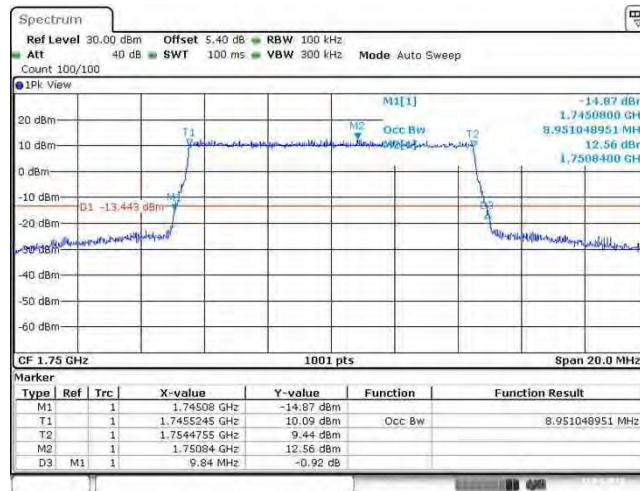


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Date: 18 APR 2019 23:09:21

**Band4\_10MHz\_16QAM\_20350\_50RB#**

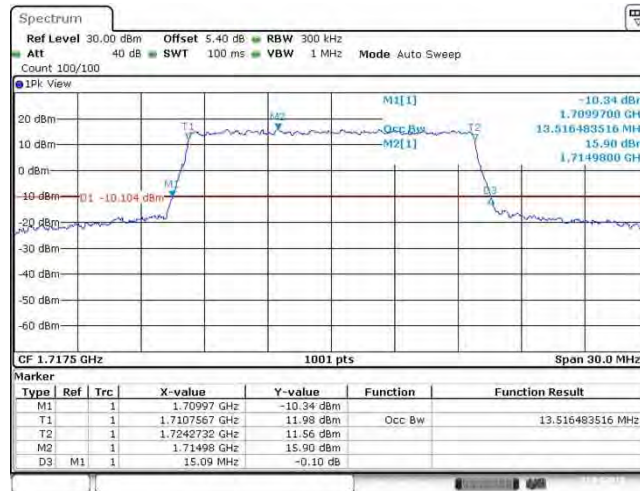


Date: 18 APR 2019 23:40:19

**Band4\_15MHz\_QPSK\_2025\_75RB#**

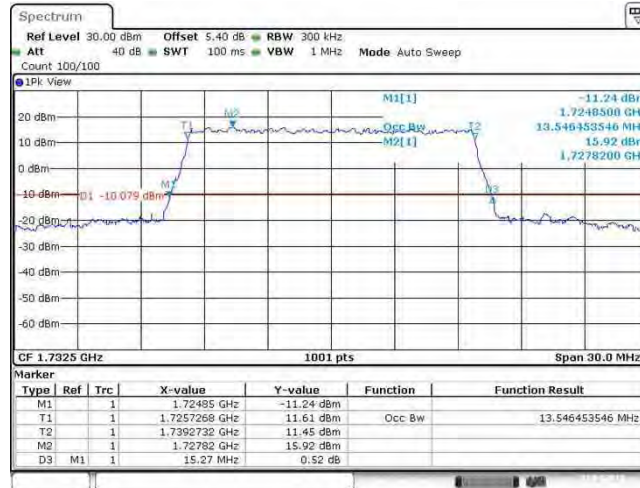


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Date: 18 APR 2019 23:11:00

**Band4\_15MHz\_QPSK\_20175\_75RB#0**

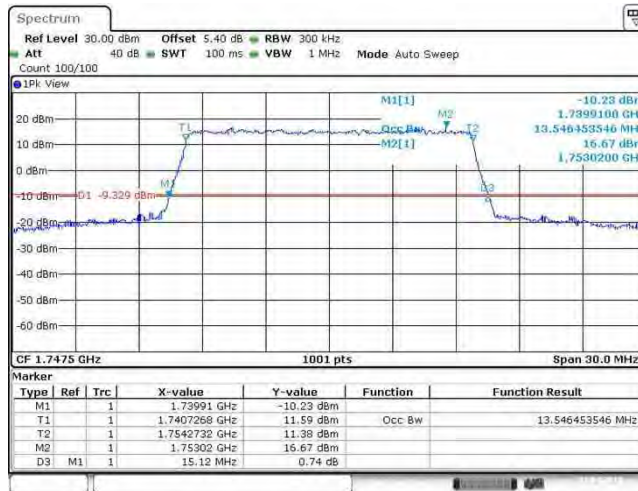


Date: 18 APR 2019 23:41:59

**Band4\_15MHz\_QPSK\_20325\_75RB#0**

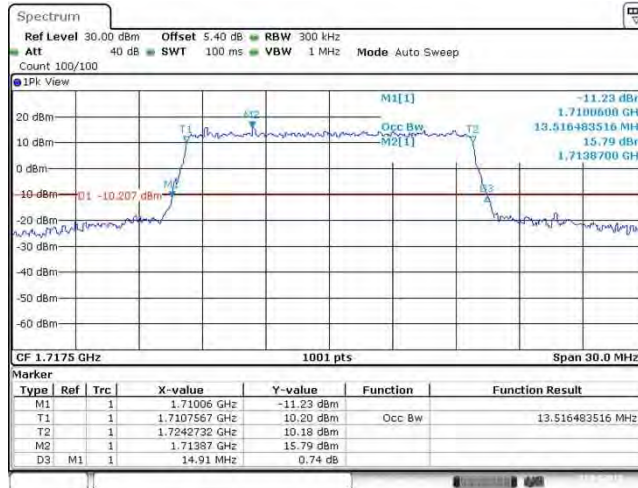


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Date: 18 APR 2019 23:12:58

**Band4\_15MHz\_64QAM\_2025\_75RB#0**

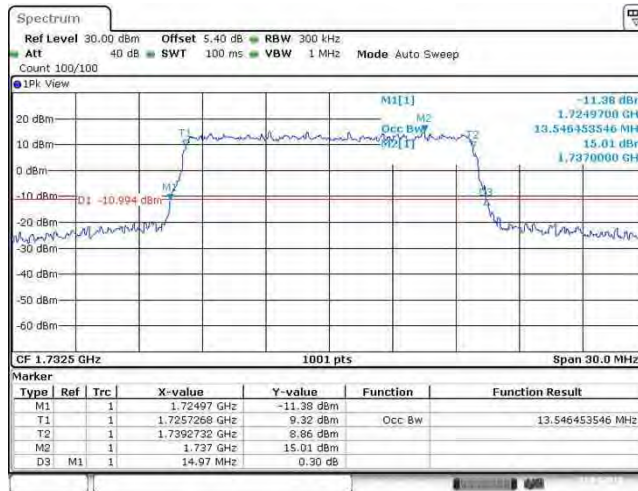


Date: 18 APR 2019 23:41:39

**Band4\_15MHz\_64QAM\_20175\_75RB#0**

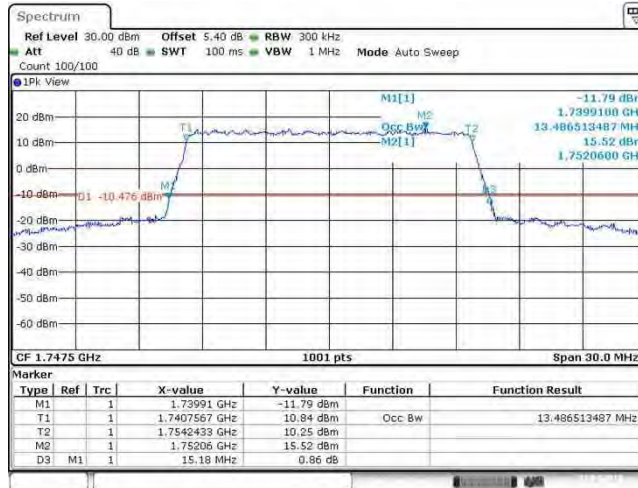


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Date: 18 APR 2019 23:12:38

**Band4\_15MHz\_64QAM\_20325\_75RB#0**

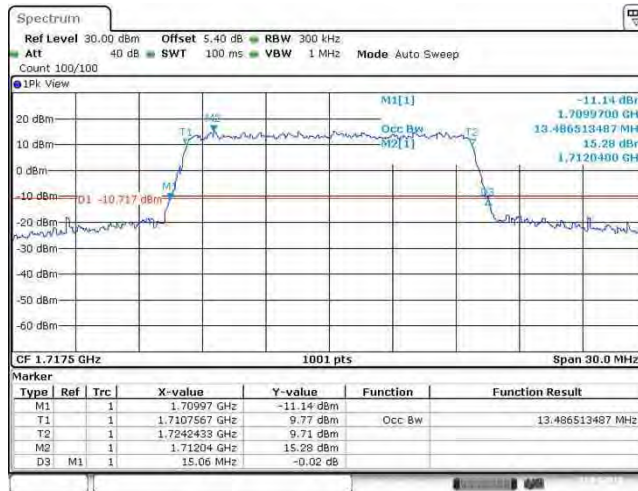


Date: 18 APR 2019 23:13:36

**Band4\_15MHz\_16QAM\_20025\_75RB#0**

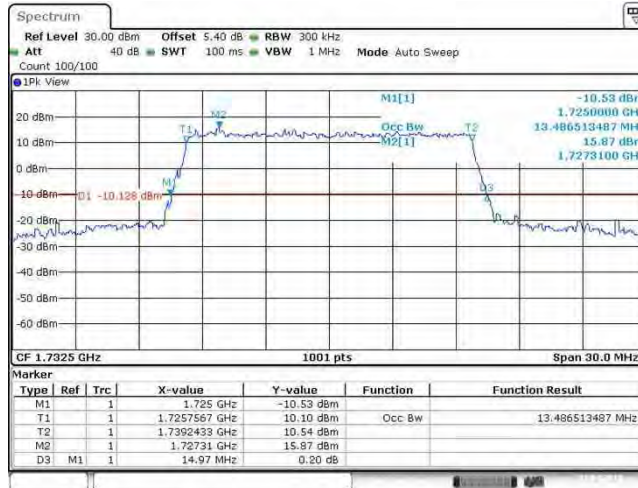


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Date: 18 APR 2019 23:11:20

**Band4\_15MHz\_16QAM\_20175\_75RB#0**



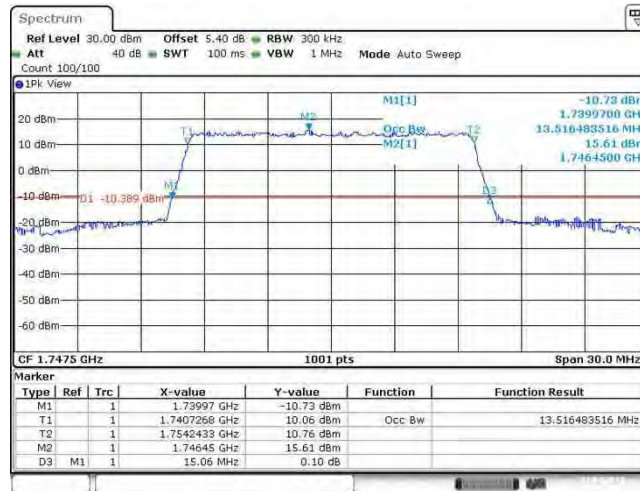
Date: 18 APR 2019 23:42:18

**Band4\_15MHz\_16QAM\_20325\_75RB#0**



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Date: 18 APR 2019 23:33:17

**Band4\_20MHz\_QPSK\_20050\_100RB#**

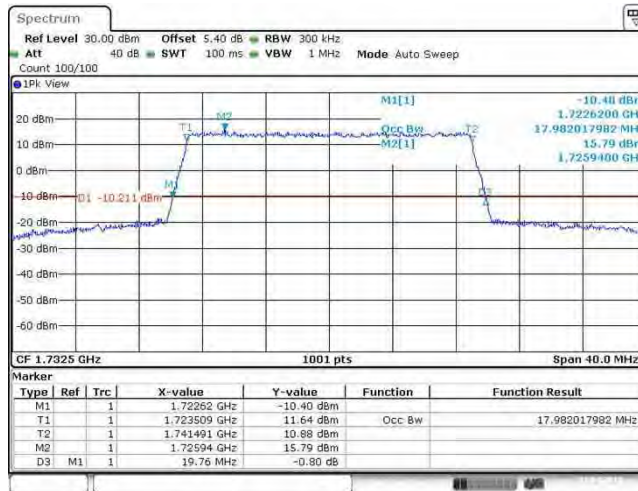


Date: 18 APR 2019 23:43:58

**Band4\_20MHz\_QPSK\_20175\_100RB#**

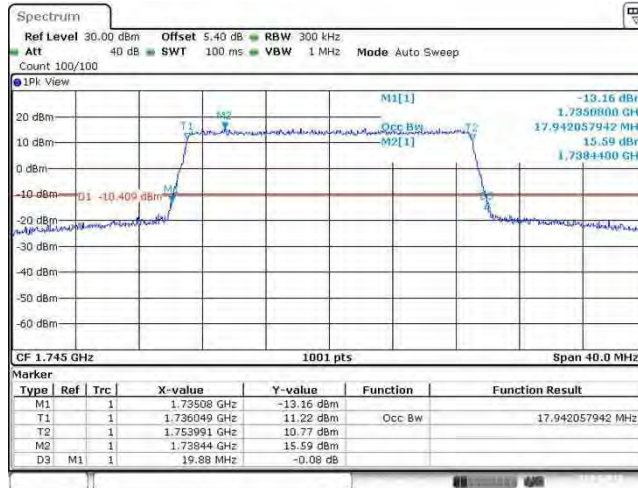


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Date: 18 APR 2019 23:14:57

**Band4\_20MHz\_QPSK\_20300\_100RB#0**

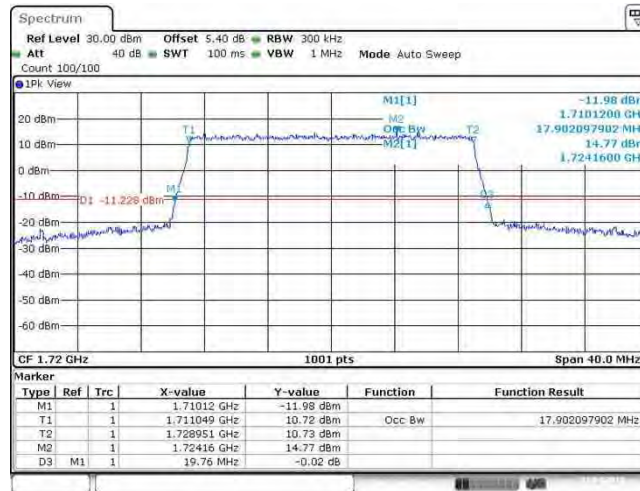


Date: 18 APR 2019 23:15:55

**Band4\_20MHz\_64QAM\_20050\_100RB#0**

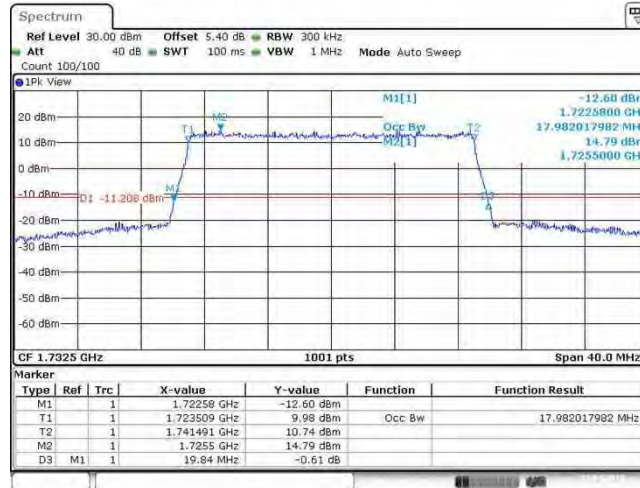


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Date: 18 APR 2019 23:43:37

**Band4\_20MHz\_64QAM\_20175\_100RB#0**

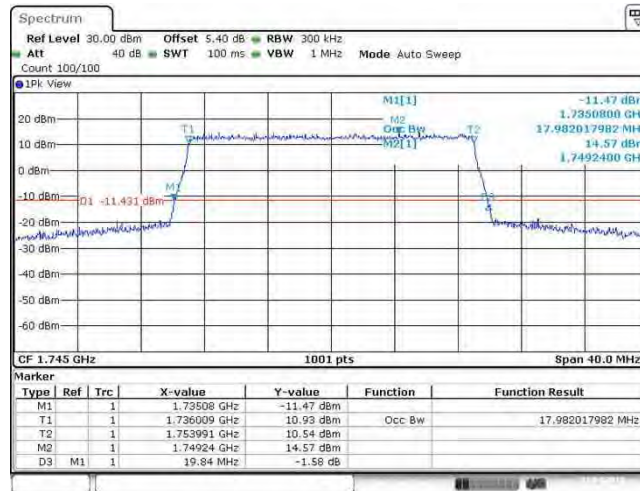


Date: 18 APR 2019 23:45:36

**Band4\_20MHz\_64QAM\_20300\_100RB#0**

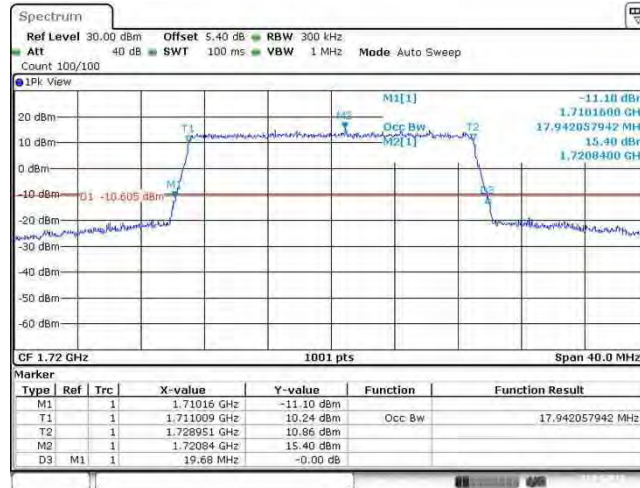


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Date: 18 APR 2019 23:16:34

**Band4\_20MHz\_16QAM\_20050\_100RB#0**

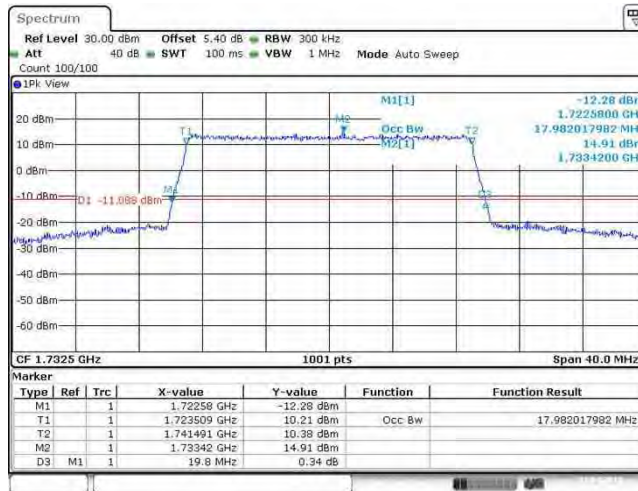


Date: 18 APR 2019 23:44:17

**Band4\_20MHz\_16QAM\_20175\_100RB#0**

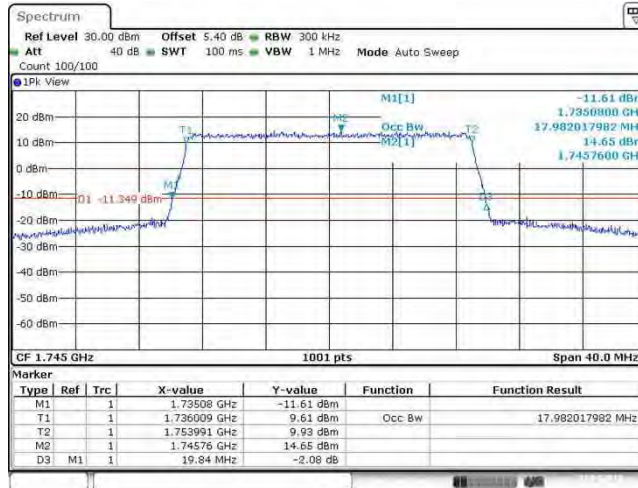


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Date: 18 APR 2019 23:35:16

**Band4\_20MHz\_16QAM\_20300\_100RB#0**



Date: 18 APR 2019 23:46:15

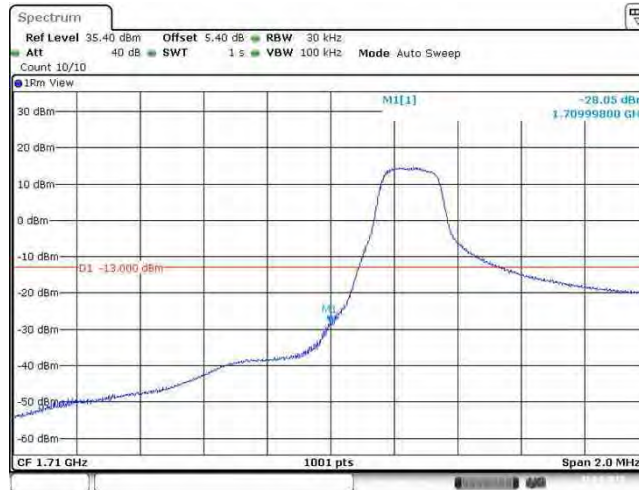


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## 5. Band Edge Compliance

### 5.1. Test Plots

Band4\_1.4MHz\_QPSK\_19957\_1RB#0



Date: 18 APR.2019 23:16:56

Band4\_1.4MHz\_QPSK\_19957\_6RB#0



Date: 18 APR.2019 23:17:53

Band4\_1.4MHz\_QPSK\_20393\_1RB#5



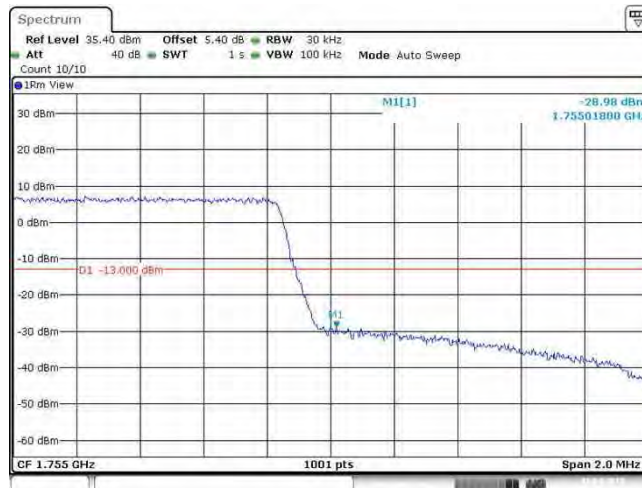
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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 18 APR. 2019 23:18:52

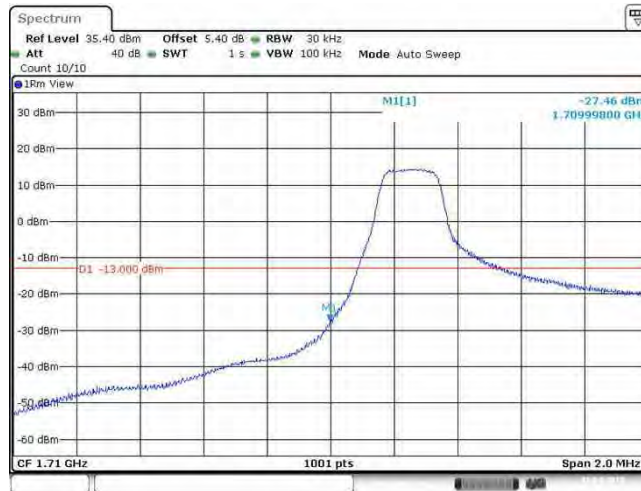
**Band4\_1.4MHz\_QPSK\_20393\_6RB#0**



Date: 18 APR. 2019 23:19:49

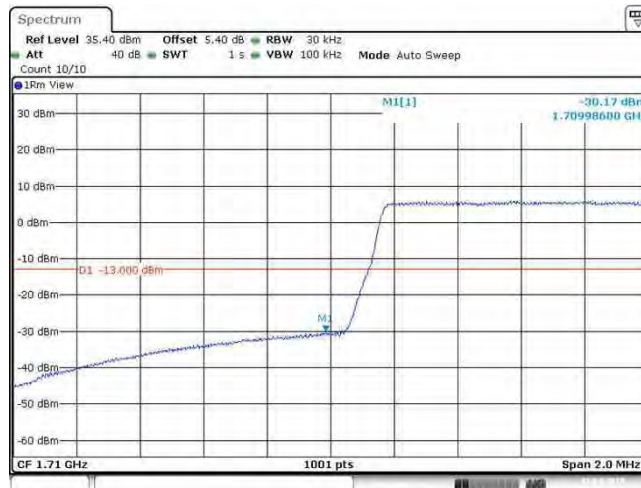
**Band4\_1.4MHz\_64QAM\_19957\_1RB#0**





Date: 18 APR. 2019 23:17:34

**Band4\_1.4MHz\_64QAM\_19957\_6RB#0**



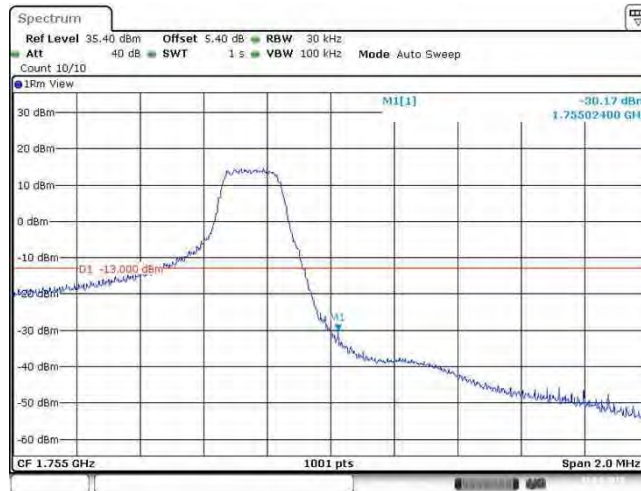
Date: 18 APR. 2019 23:48:31

**Band4\_1.4MHz\_64QAM\_20393\_1RB#5**



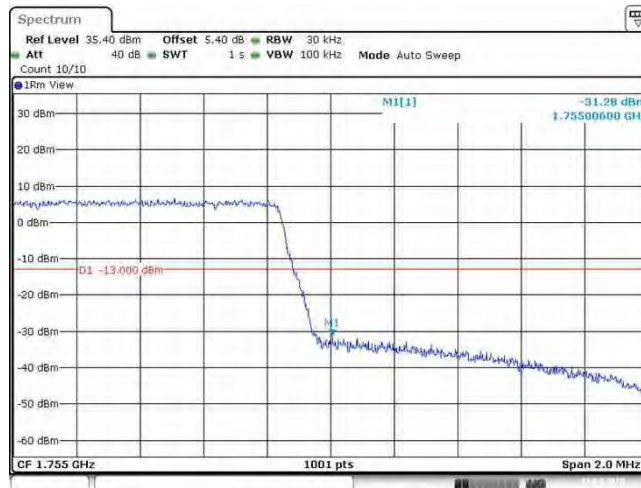
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Date: 18 APR. 2019 23:19:30

**Band4\_1.4MHz\_64QAM\_20393\_6RB#0**

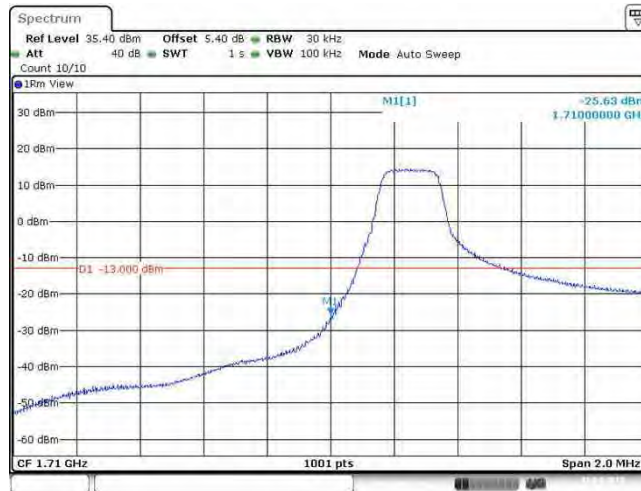


Date: 18 APR. 2019 23:20:28

**Band4\_1.4MHz\_16QAM\_19957\_1RB#0**

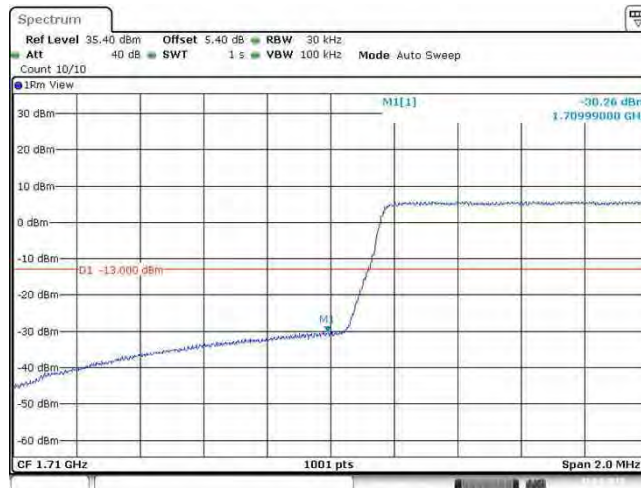


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Date: 18 APR. 2019 23:47:15

**Band4\_1.4MHz\_16QAM\_19957\_6RB#0**

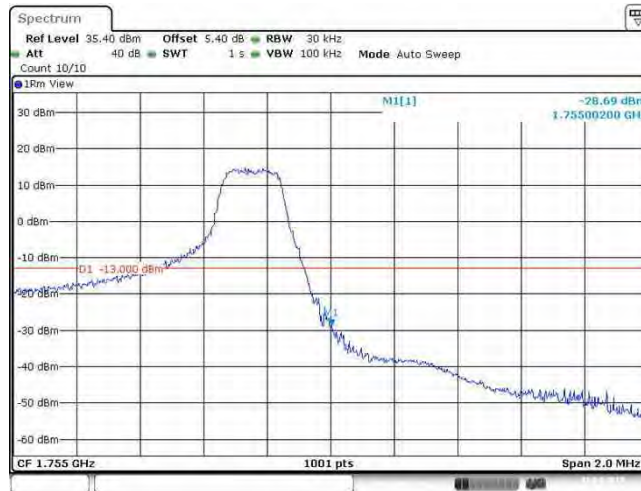


Date: 18 APR. 2019 23:48:12

**Band4\_1.4MHz\_16QAM\_20393\_1RB#5**

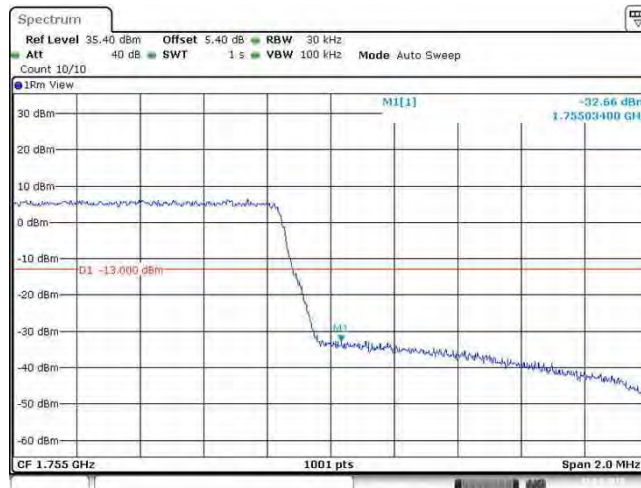


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Date: 18 APR. 2019 23:19:11

**Band4\_1.4MHz\_16QAM\_20393\_6RB#0**

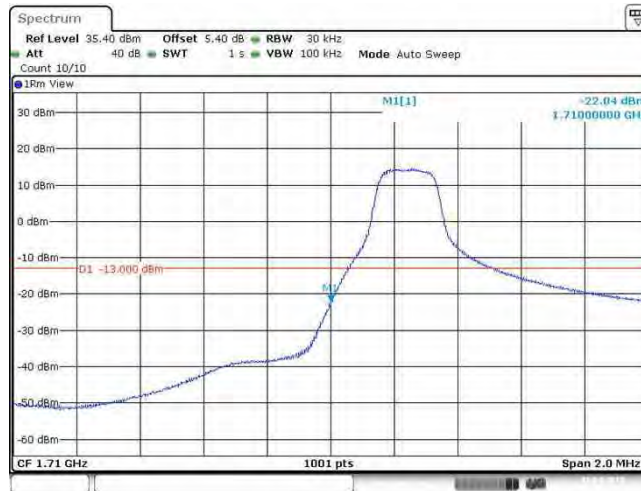


Date: 18 APR. 2019 23:20:09

**Band4\_3MHz\_QPSK\_19965\_1RB#0**



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Date: 18 APR. 2019 23:20:49

**Band4\_3MHz\_QPSK\_19965\_15RB#0**



Date: 18 APR. 2019 23:21:47

**Band4\_3MHz\_QPSK\_20385\_1RB#14**

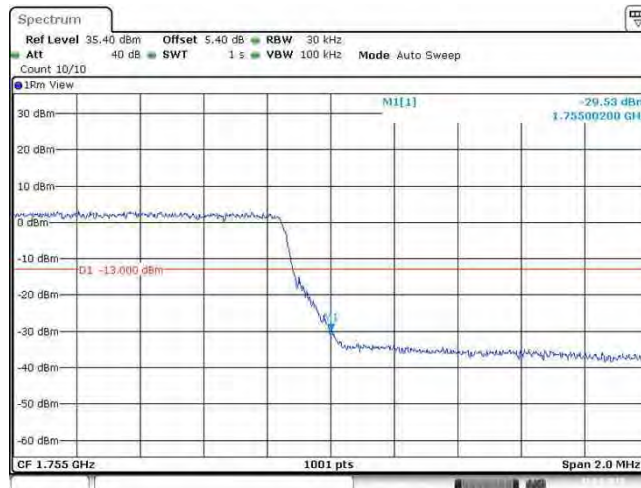


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Date: 18.APR.2019 23:22:46

**Band4\_3MHz\_QPSK\_20385\_15RB#0**

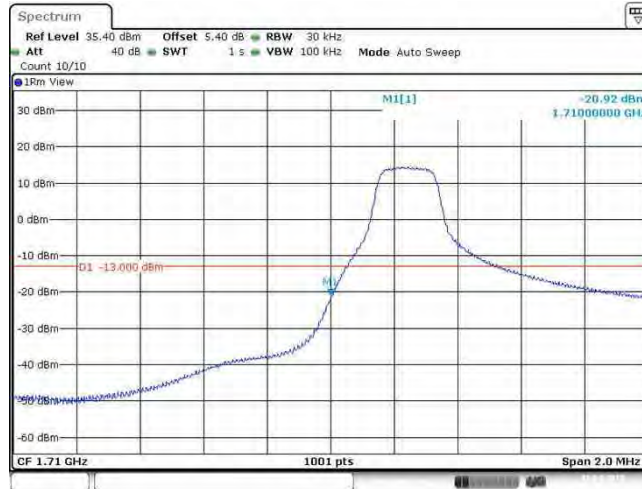


Date: 18.APR.2019 23:23:43

**Band4\_3MHz\_64QAM\_19965\_1RB#0**

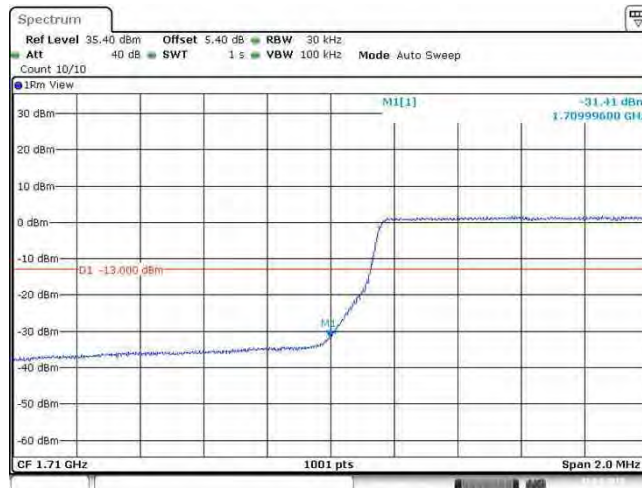


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Date: 18 APR. 2019 23:21:27

**Band4\_3MHz\_64QAM\_19965\_15RB#0**

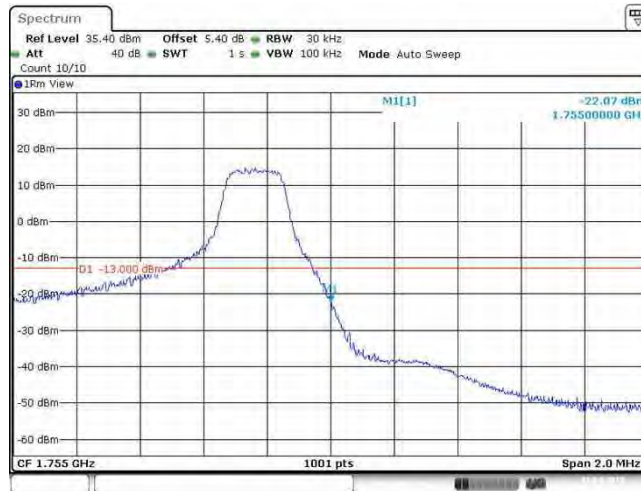


Date: 18 APR. 2019 23:22:25

**Band4\_3MHz\_64QAM\_20385\_1RB#14**

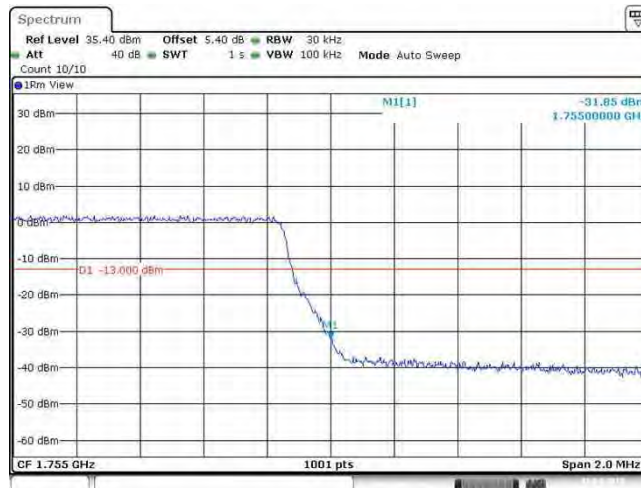


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Date: 18 APR. 2019 23:23:24

**Band4\_3MHz\_64QAM\_20385\_15RB#0**

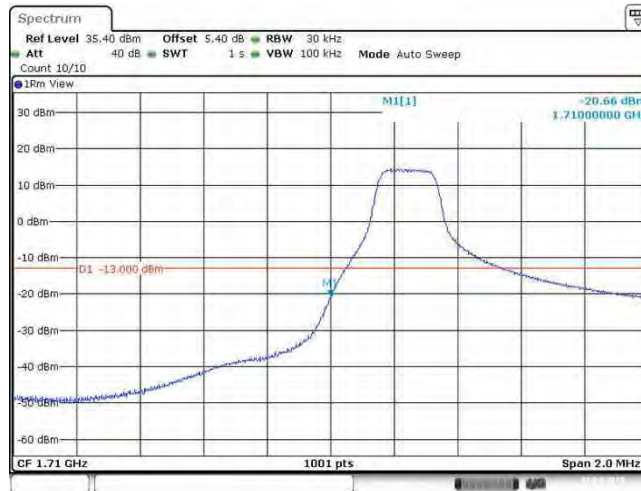


Date: 18 APR. 2019 23:24:21

**Band4\_3MHz\_16QAM\_19965\_1RB#0**

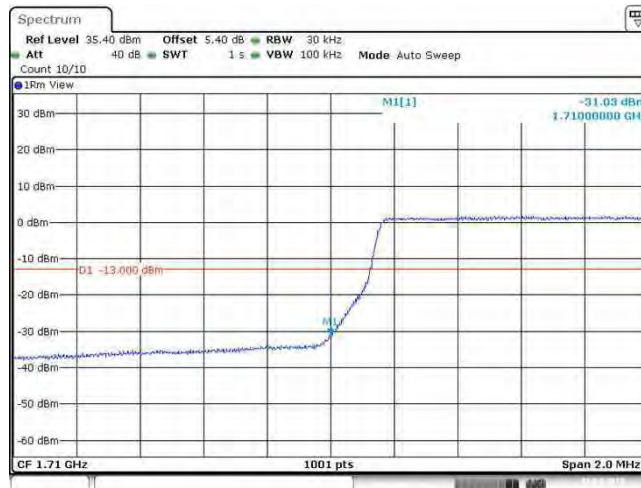


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Date: 18 APR. 2019 23:21:08

**Band4\_3MHz\_16QAM\_19965\_15RB#0**



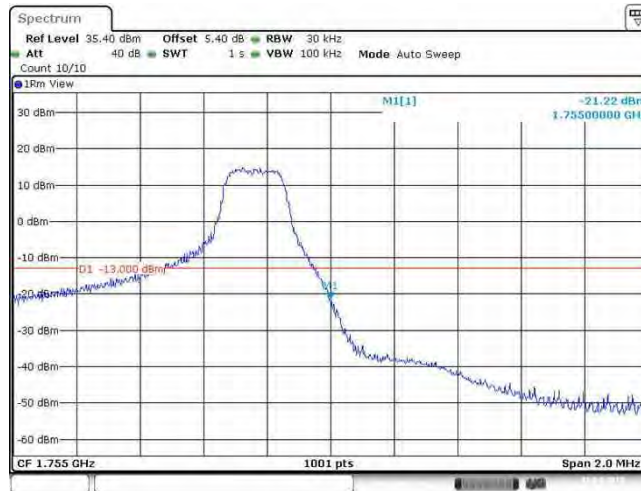
Date: 18 APR. 2019 23:22:06

**Band4\_3MHz\_16QAM\_20385\_1RB#14**



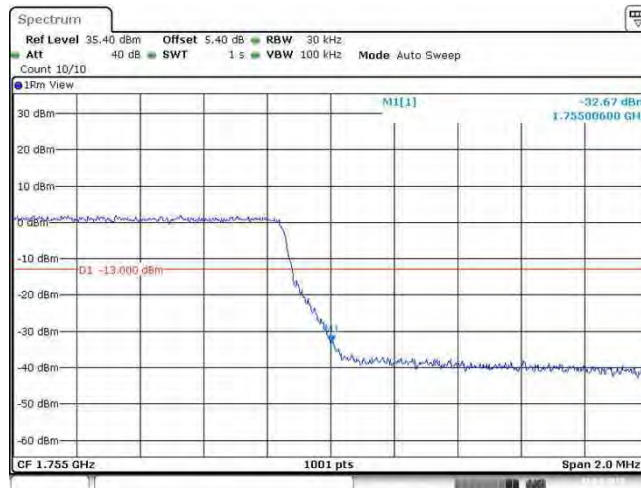
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Date: 18 APR. 2019 23:23:05

**Band4\_3MHz\_16QAM\_20385\_15RB#0**

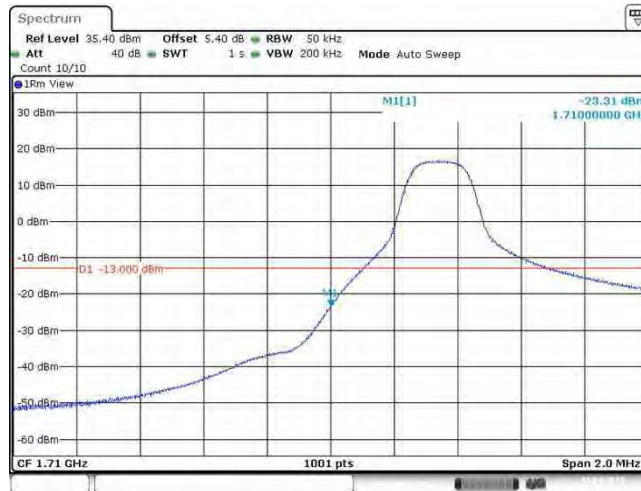


Date: 18 APR. 2019 23:24:02

**Band4\_5MHz\_QPSK\_19975\_1RB#0**

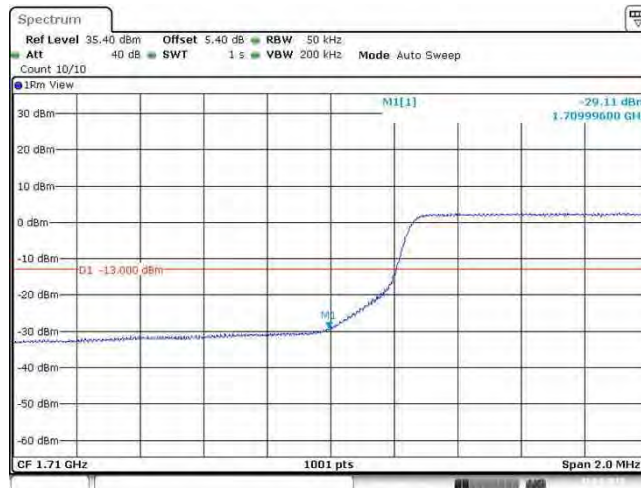


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Date: 18 APR. 2019 23:24:43

**Band4\_5MHz\_QPSK\_19975\_25RB#0**

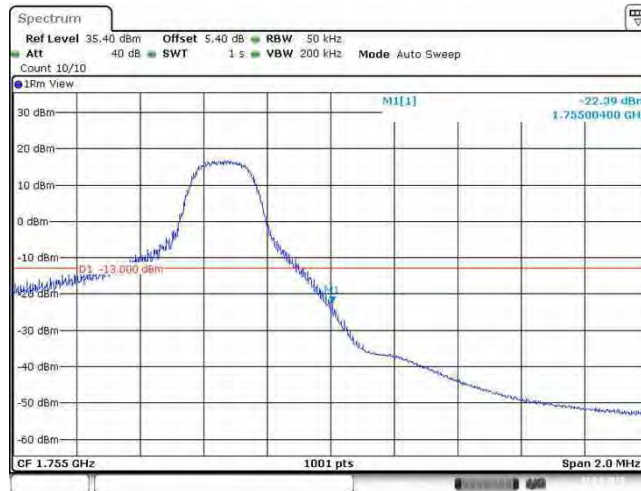


Date: 18 APR. 2019 23:25:40

**Band4\_5MHz\_QPSK\_20375\_1RB#24**



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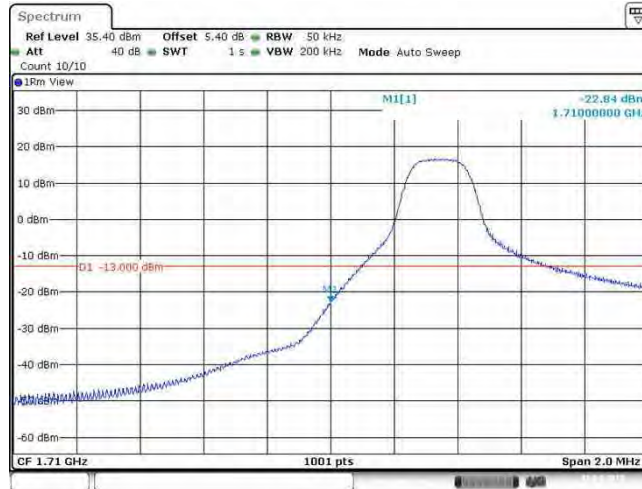
**Band4\_5MHz\_QPSK\_20375\_25RB#0**



**Band4\_5MHz\_64QAM\_19975\_1RB#0**

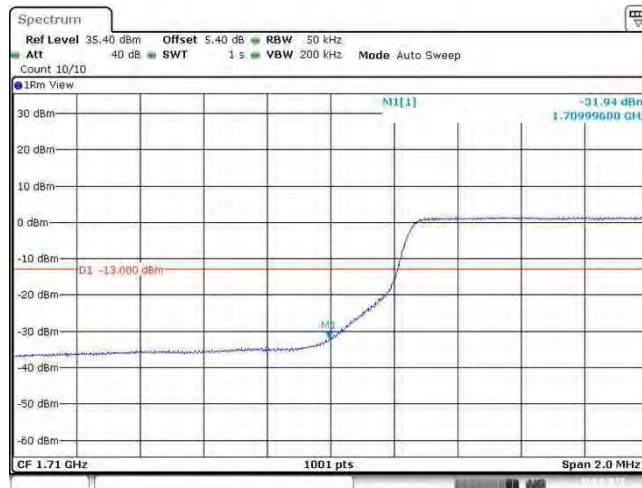


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Date: 18 APR. 2019 23:25:21

**Band4\_5MHz\_64QAM\_19975\_25RB#0**

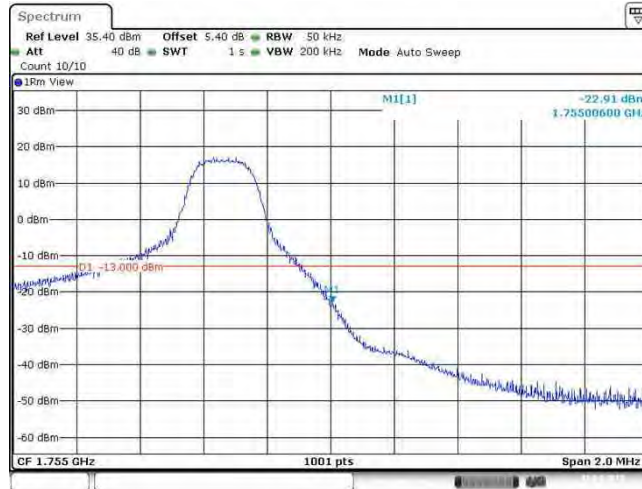


Date: 18 APR. 2019 23:26:19

**Band4\_5MHz\_64QAM\_20375\_1RB#24**

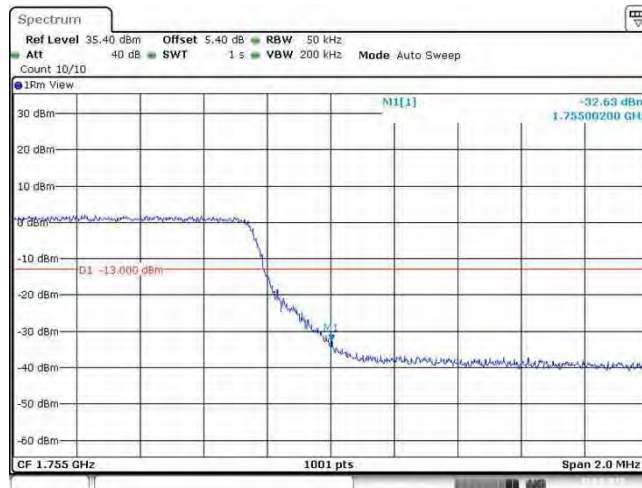


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Date: 18 APR. 2019 23:27:18

**Band4\_5MHz\_64QAM\_20375\_25RB#0**

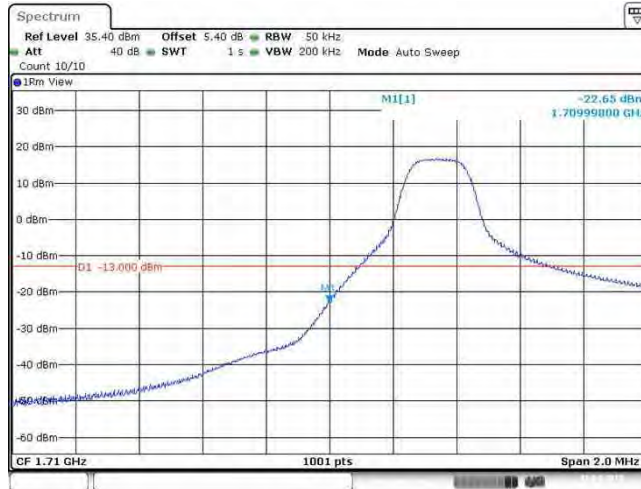


Date: 18 APR. 2019 23:28:15

**Band4\_5MHz\_16QAM\_19975\_1RB#0**

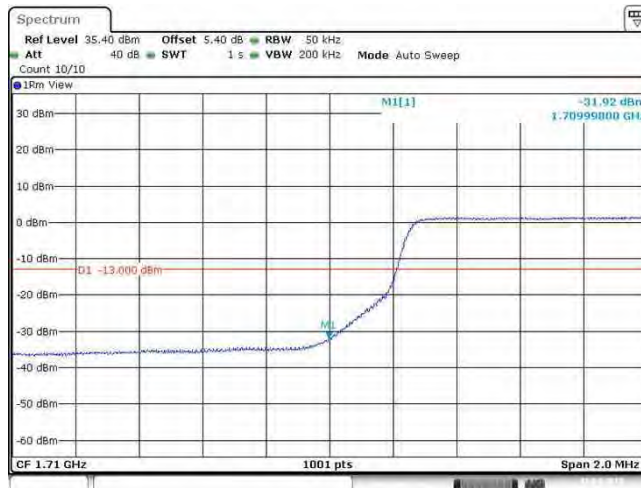


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Date: 18 APR. 2019 23:25:02

**Band4\_5MHz\_16QAM\_19975\_25RB#0**

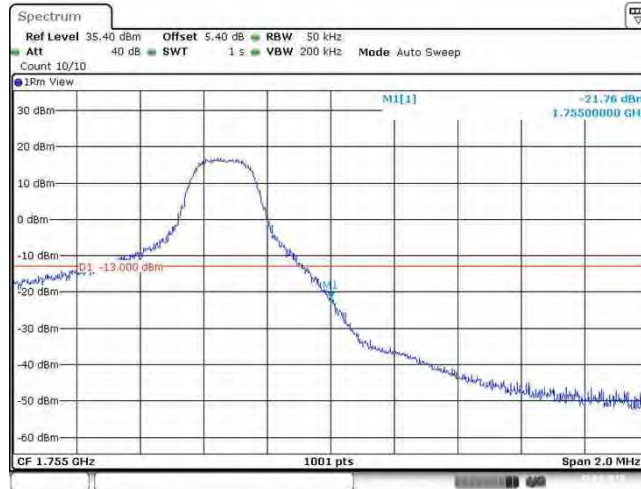


Date: 18 APR. 2019 23:25:59

**Band4\_5MHz\_16QAM\_20375\_1RB#24**

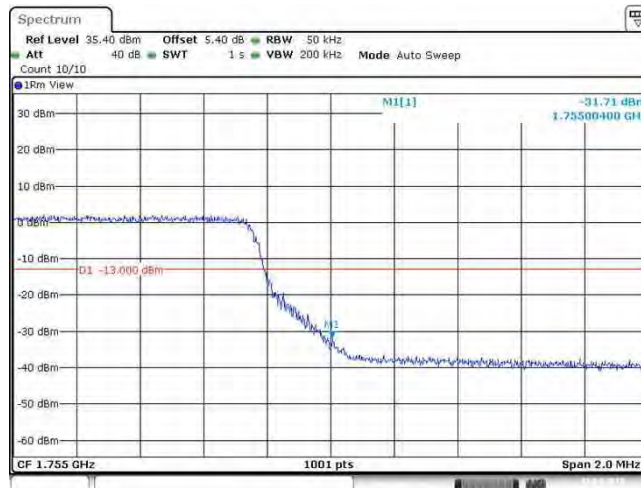


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Date: 18 APR. 2019 23:26:59

**Band4\_5MHz\_16QAM\_20375\_25RB#0**



Date: 18 APR. 2019 23:27:56

**Band4\_10MHz\_QPSK\_2000\_1RB#0**



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Date: 18 APR. 2019 23:28:36

**Band4\_10MHz\_QPSK\_20000\_50RB#0**



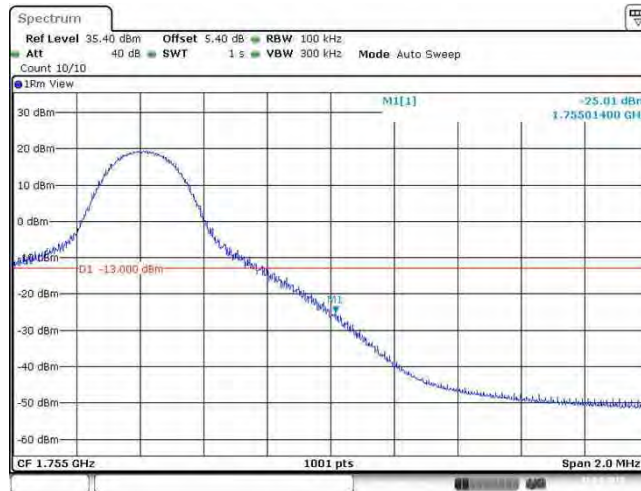
Date: 18 APR. 2019 23:29:34

**Band4\_10MHz\_QPSK\_20350\_1RB#49**



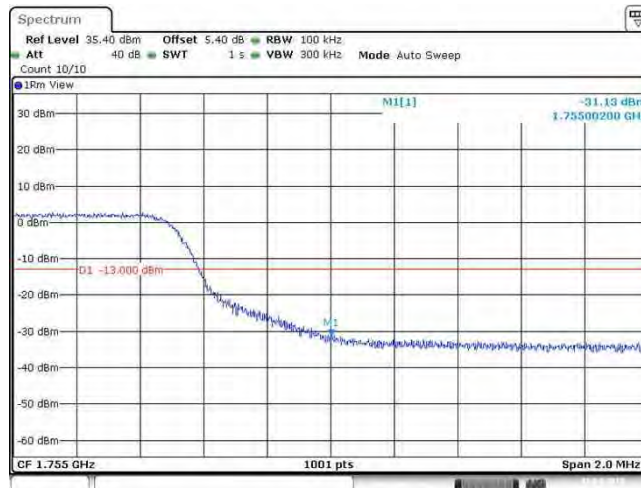
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Date: 18 APR. 2019 23:30:33

**Band4\_10MHz\_QPSK\_20350\_50RB#0**



Date: 18 APR. 2019 23:31:30

**Band4\_10MHz\_64QAM\_20000\_1RB#0**



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Date: 18 APR. 2019 23:29:14

**Band4\_10MHz\_64QAM\_20000\_50RB#0**

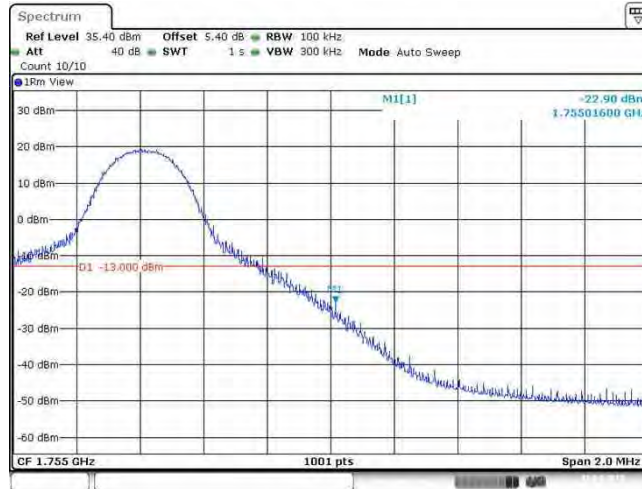


Date: 18 APR. 2019 23:30:12

**Band4\_10MHz\_64QAM\_20350\_1RB#49**

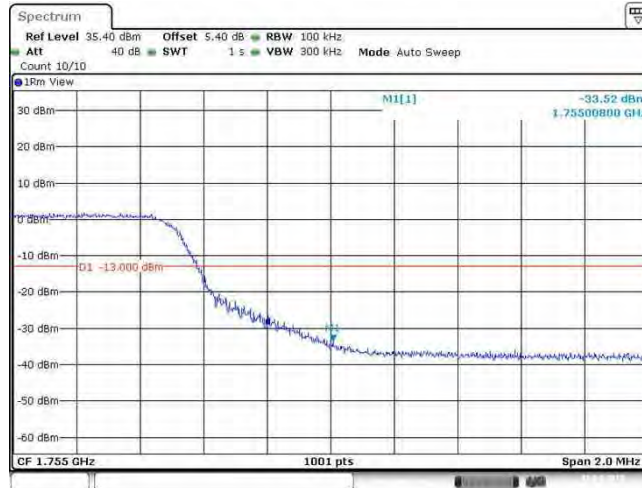


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Date: 18 APR. 2019 23:31:11

**Band4\_10MHz\_64QAM\_20350\_50RB#0**

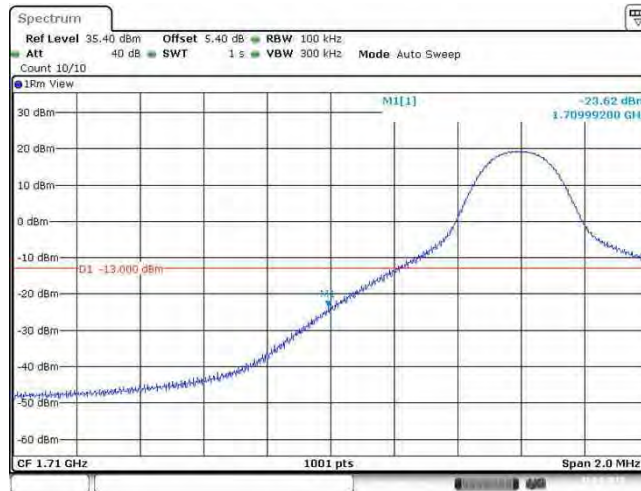


Date: 18 APR. 2019 23:32:08

**Band4\_10MHz\_16QAM\_20000\_1RB#0**



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Date: 18 APR. 2019 23:28:55

**Band4\_10MHz\_16QAM\_20000\_50RB#0**

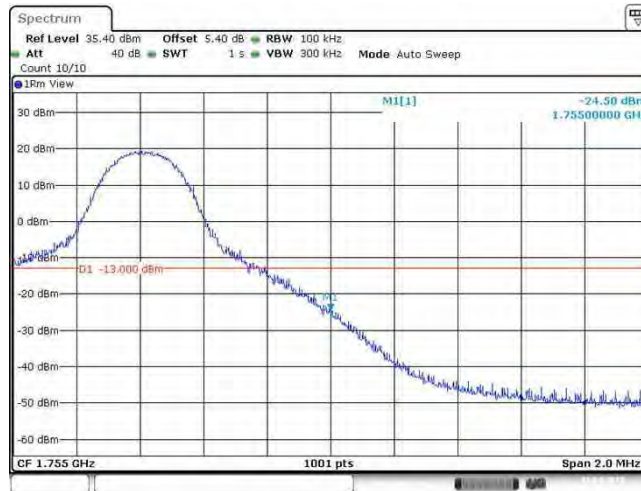


Date: 18 APR. 2019 23:29:53

**Band4\_10MHz\_16QAM\_20350\_1RB#49**

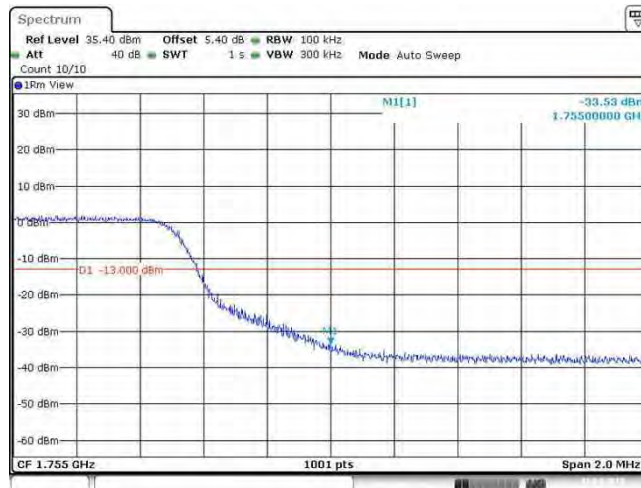


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Date: 18 APR. 2019 23:30:52

**Band4\_10MHz\_16QAM\_20350\_50RB#0**

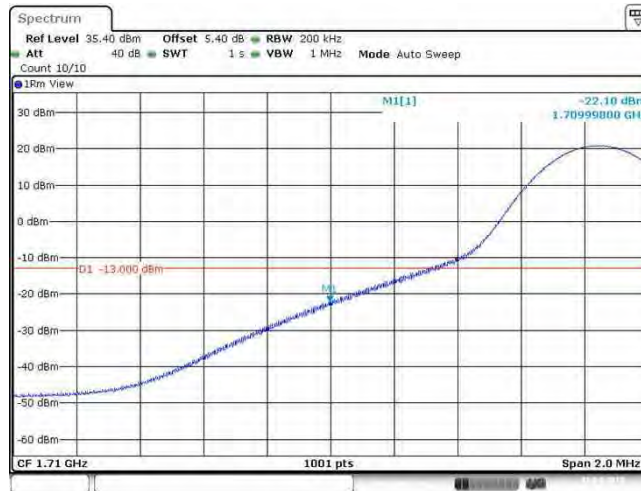


Date: 18 APR. 2019 23:31:49

**Band4\_15MHz\_QPSK\_20025\_1RB#0**



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Date: 18 APR. 2019 23:32:29

**Band4\_15MHz\_QPSK\_20025\_75RB#0**

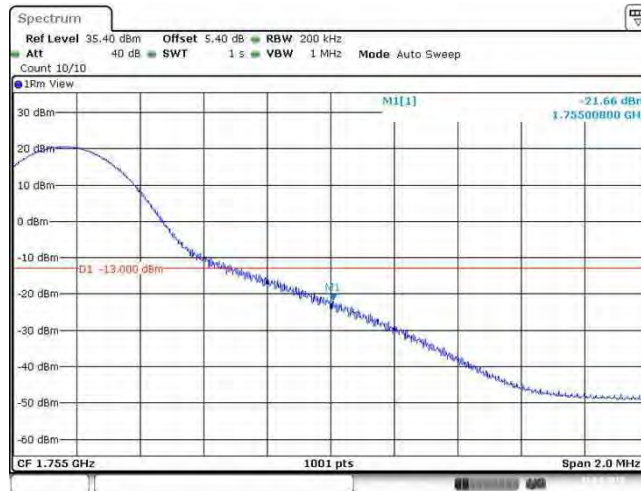


Date: 18 APR. 2019 23:33:27

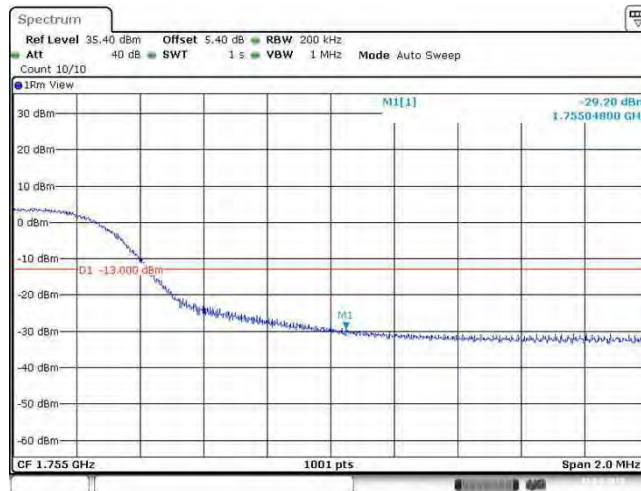
**Band4\_15MHz\_QPSK\_20325\_1RB#74**



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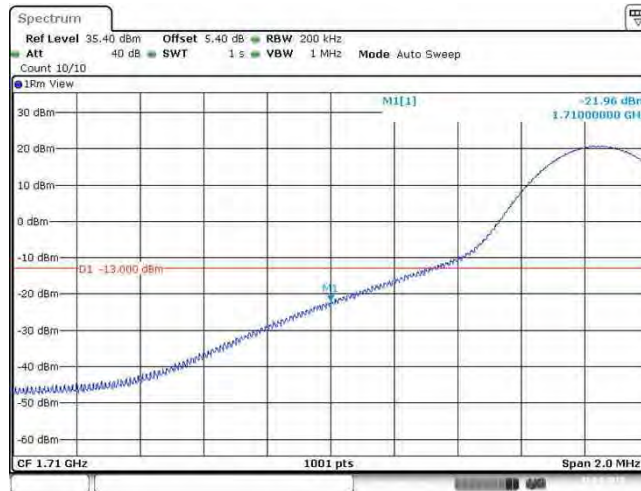
**Band4\_15MHz\_QPSK\_20325\_75RB#0**



**Band4\_15MHz\_64QAM\_20025\_1RB#0**



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Date: 18 APR. 2019 23:33:08

**Band4\_15MHz\_64QAM\_20025\_75RB#0**



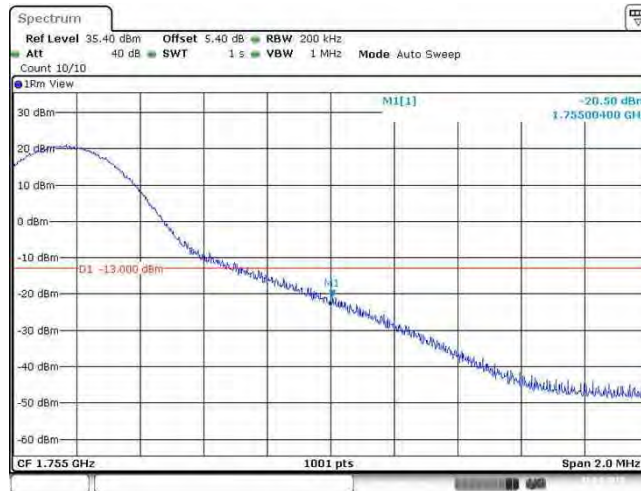
Date: 18 APR. 2019 23:34:05

**Band4\_15MHz\_64QAM\_20325\_1RB#74**



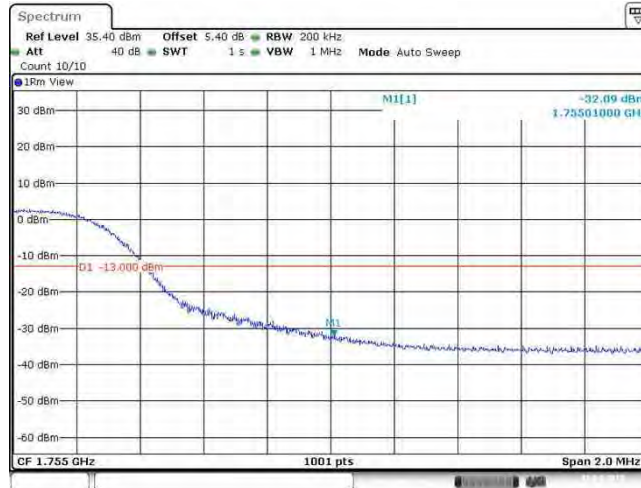
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Date: 18 APR. 2019 23:35:04

**Band4\_15MHz\_64QAM\_20325\_75RB#0**



Date: 18 APR. 2019 23:36:02

**Band4\_15MHz\_16QAM\_20025\_1RB#0**



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Date: 18 APR. 2019 23:32:49

**Band4\_15MHz\_16QAM\_20025\_75RB#0**

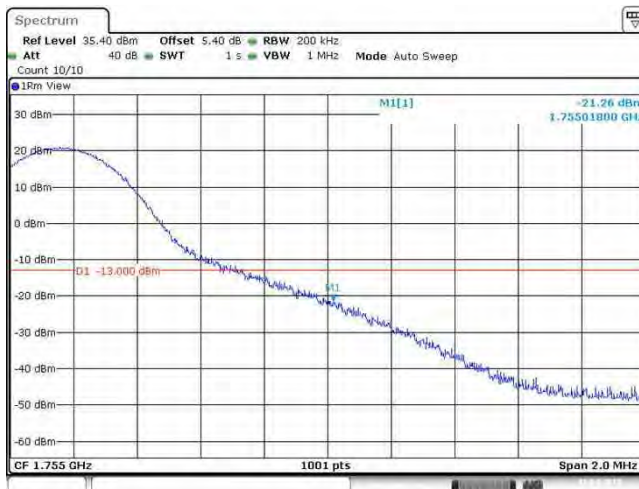


Date: 18 APR. 2019 23:33:46

**Band4\_15MHz\_16QAM\_20325\_1RB#74**

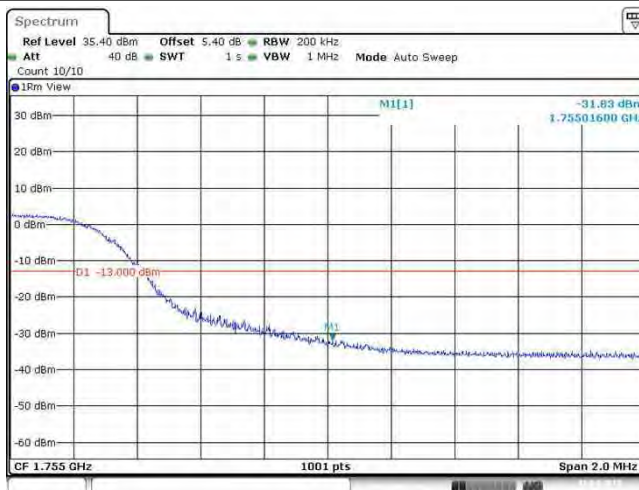


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Date: 18 APR. 2019 23:34:45

**Band4\_15MHz\_16QAM\_20325\_75RB#0**

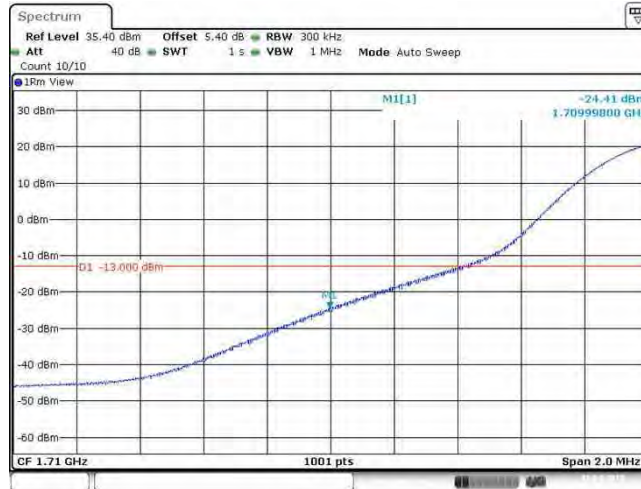


Date: 18 APR. 2019 23:35:42

**Band4\_20MHz\_QPSK\_20050\_1RB#0**



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Date: 18 APR. 2019 23:36:23

**Band4\_20MHz\_QPSK\_20050\_100RB#0**

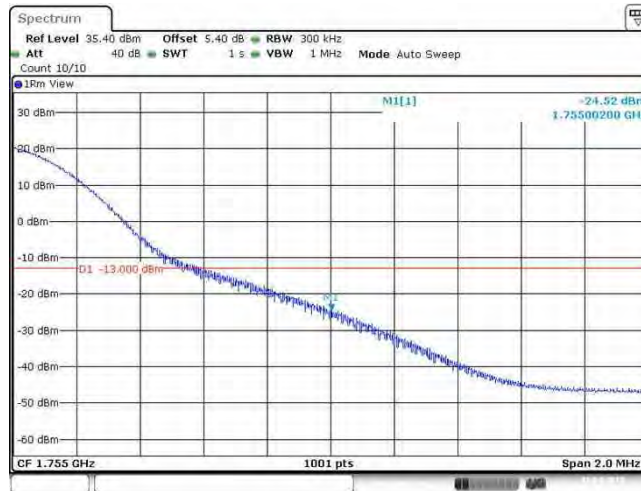


Date: 18 APR. 2019 23:37:20

**Band4\_20MHz\_QPSK\_20300\_1RB#99**

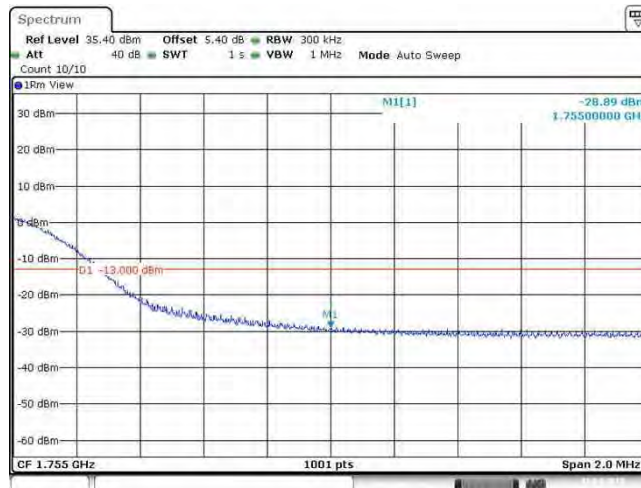


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Date: 18 APR. 2019 23:38:19

**Band4\_20MHz\_QPSK\_20300\_100RB#0**



Date: 18 APR. 2019 23:39:17

**Band4\_20MHz\_64QAM\_20050\_1RB#0**



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Date: 18 APR. 2019 23:37:01

**Band4\_20MHz\_64QAM\_20050\_100RB#0**

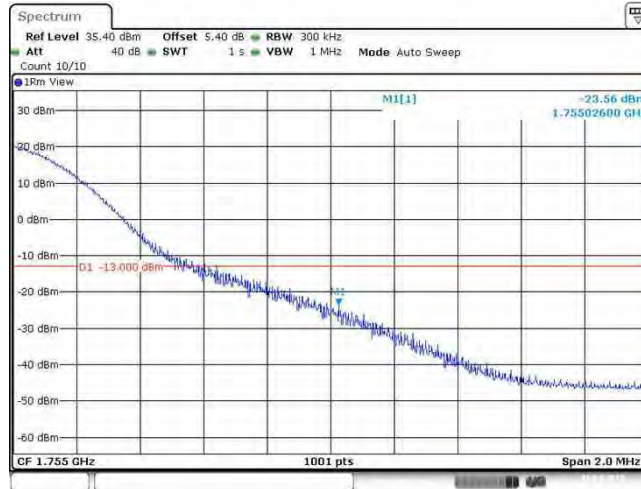


Date: 18 APR. 2019 23:37:59

**Band4\_20MHz\_64QAM\_20300\_1RB#99**

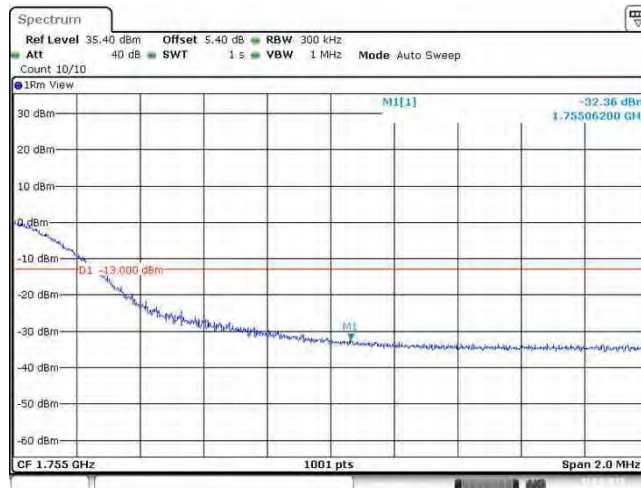


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Date: 18 APR. 2019 23:38:58

**Band4\_20MHz\_64QAM\_20300\_100RB#0**



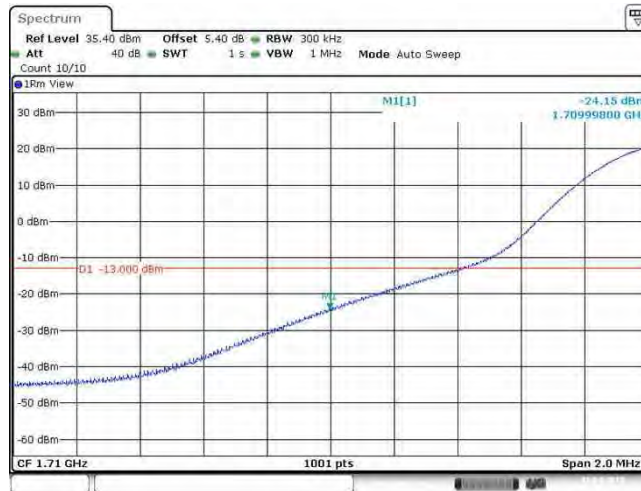
Date: 18 APR. 2019 23:39:55

**Band4\_20MHz\_16QAM\_20050\_1RB#0**



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 18 APR. 2019 23:36:42

**Band4\_20MHz\_16QAM\_20050\_100RB#0**



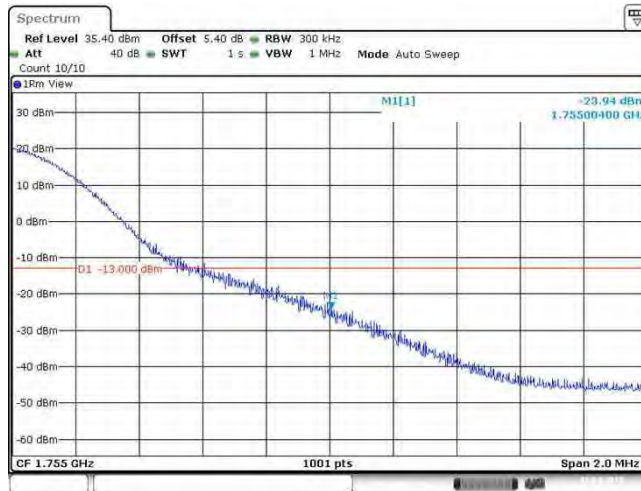
Date: 18 APR. 2019 23:37:39

**Band4\_20MHz\_16QAM\_20300\_1RB#99**



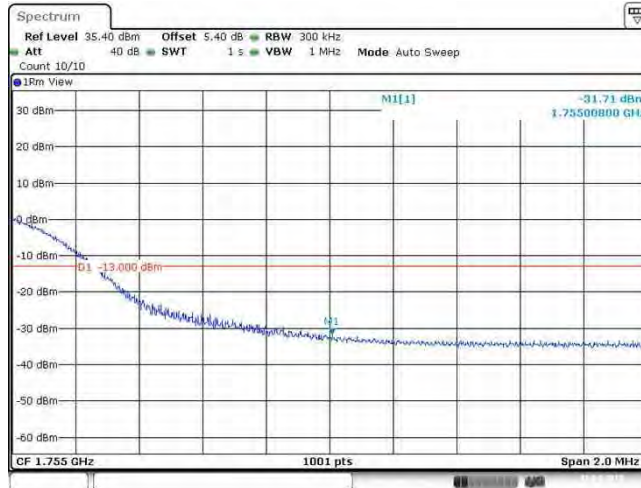
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Date: 18 APR. 2019 23:38:39

**Band4\_20MHz\_16QAM\_20300\_100RB#0**



Date: 18 APR. 2019 23:39:36



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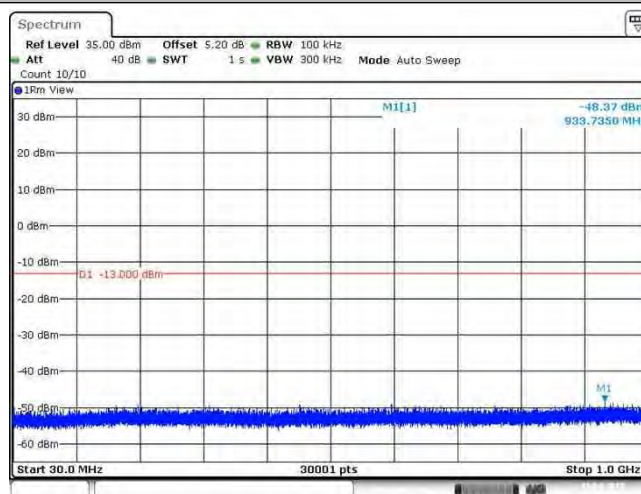
## 6. Spurious Emission at Antenna Terminal

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.

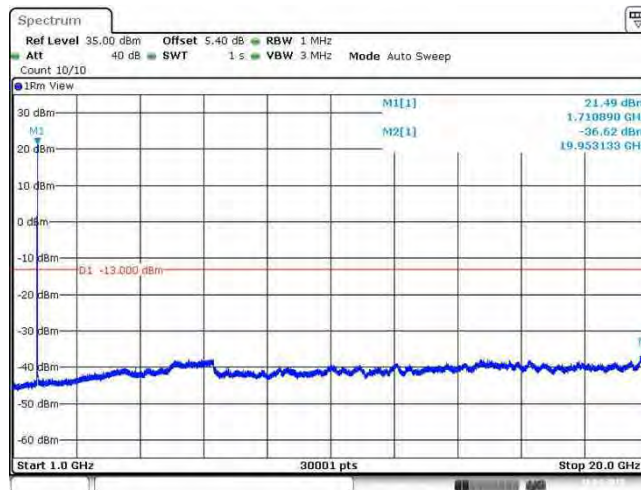
### 6.1. Test Plots

Band4\_20MHz\_QPSK\_20050\_1RB#0



Date: 18 APR 2019 23:40:16

Band4\_20MHz\_QPSK\_20050\_1RB#0



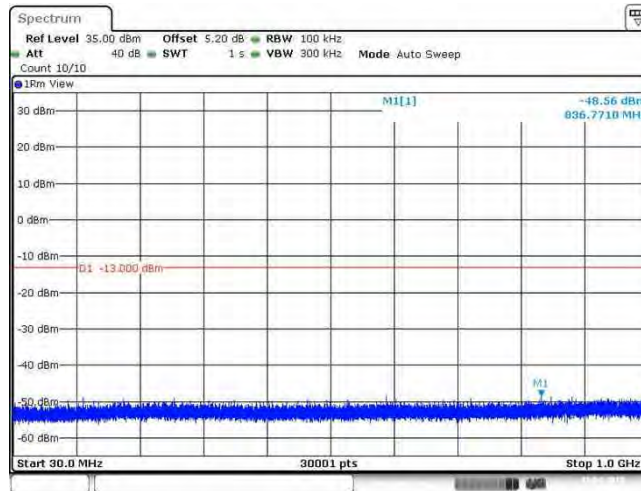
Date: 18 APR 2019 23:40:35

Band4\_20MHz\_QPSK\_20175\_1RB#0



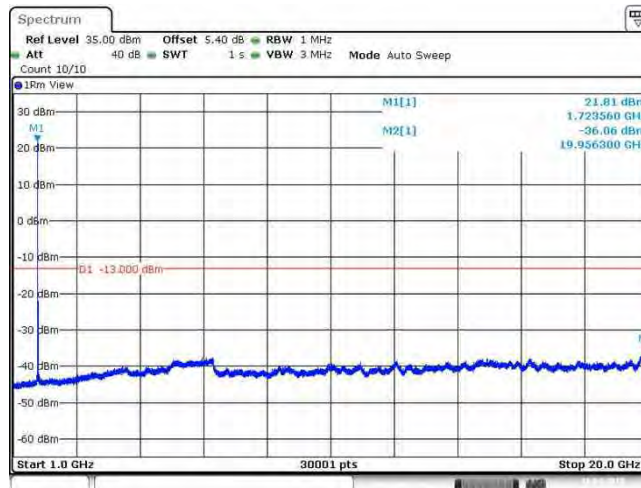
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 18 APR. 2019 23:42:09

Band4\_20MHz\_QPSK\_20175\_1RB#0

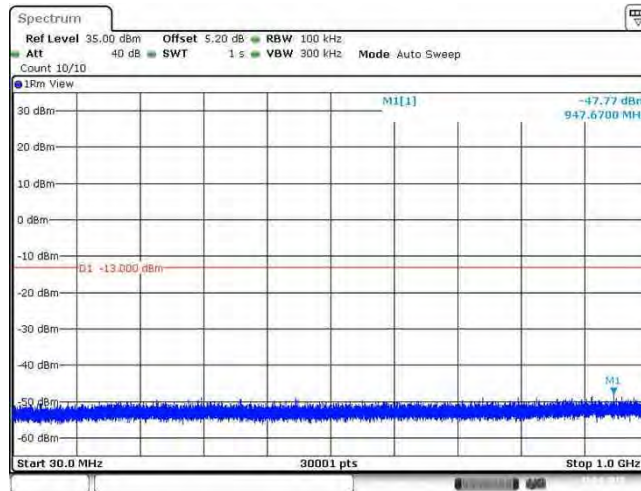


Date: 18 APR. 2019 23:42:08

Band4\_20MHz\_QPSK\_20300\_1RB#0

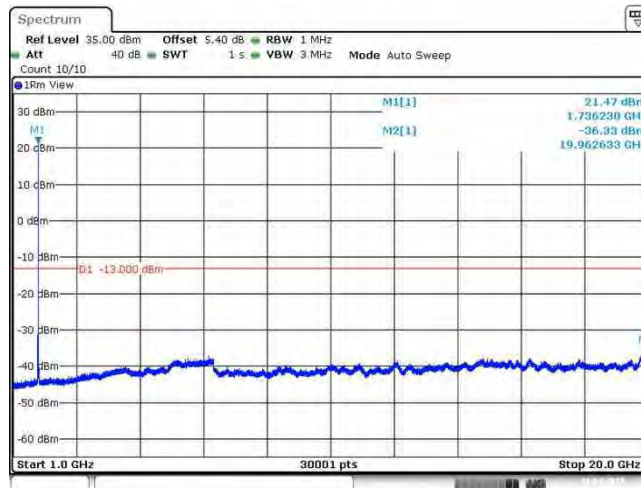


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Date: 18 APR. 2019 23:44:02

Band4\_20MHz\_QPSK\_20300\_1RB#0

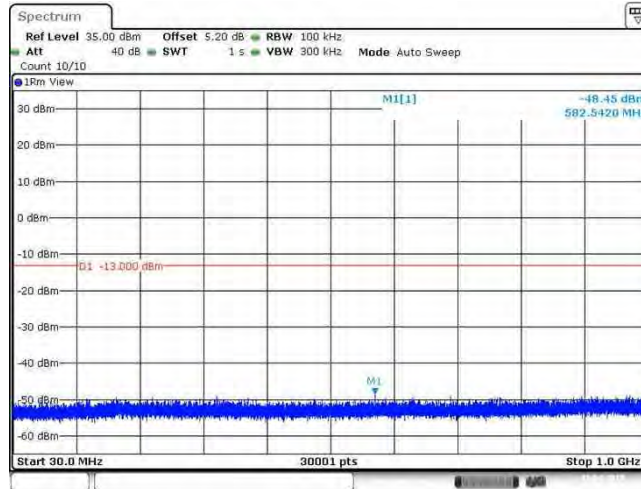


Date: 18 APR. 2019 23:44:21

Band4\_20MHz\_64QAM\_20050\_1RB#0

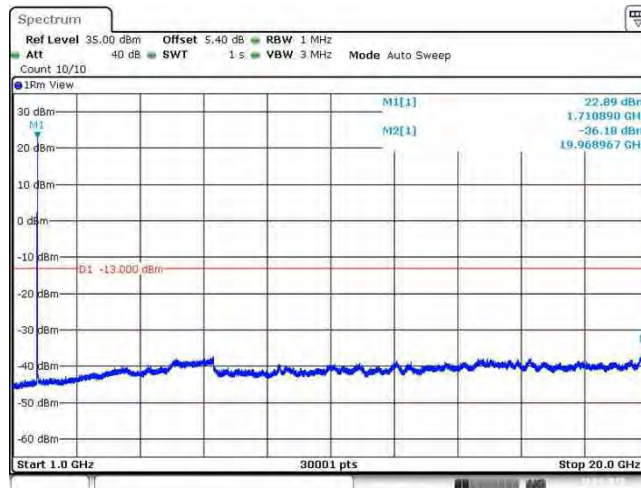


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Date: 18 APR. 2019 23:41:31

**Band4\_20MHz\_64QAM\_20050\_1RB#0**

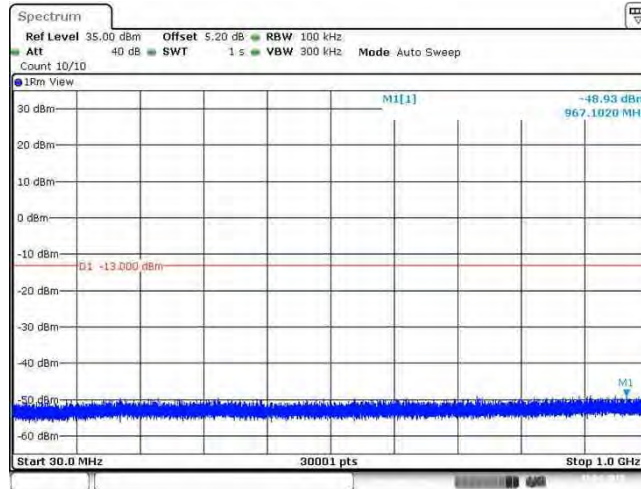


Date: 18 APR. 2019 23:41:50

**Band4\_20MHz\_64QAM\_20175\_1RB#0**

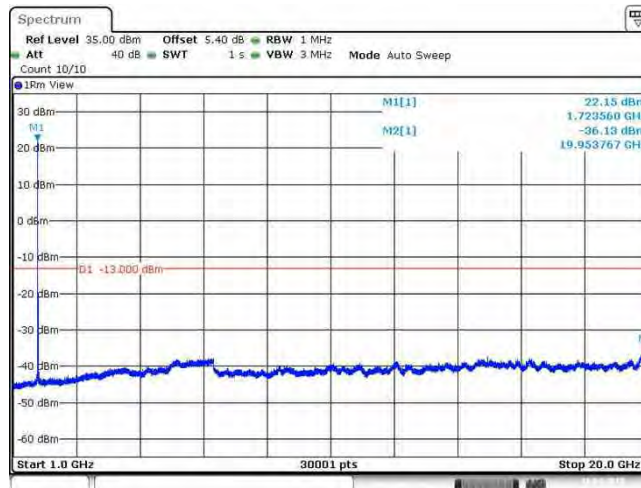


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Date: 18 APR. 2019 23:43:24

**Band4\_20MHz\_64QAM\_20175\_1RB#0**

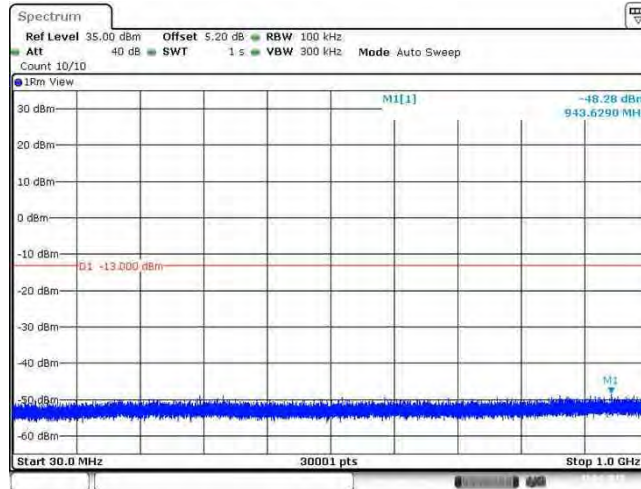


Date: 18 APR. 2019 23:43:43

**Band4\_20MHz\_64QAM\_20300\_1RB#0**

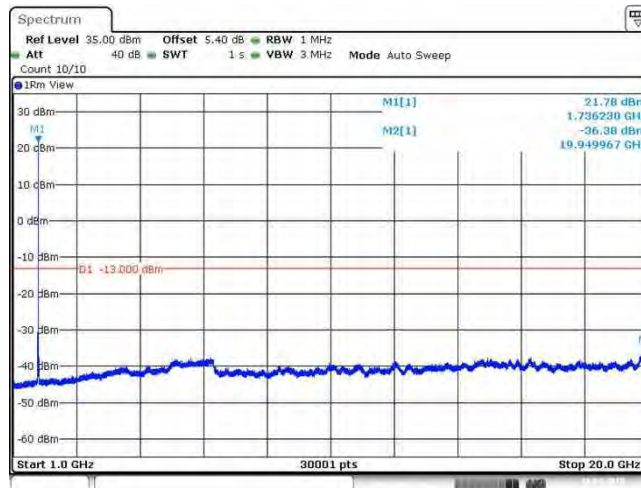


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Date: 18 APR. 2019 23:45:18

**Band4\_20MHz\_64QAM\_20300\_1RB#0**

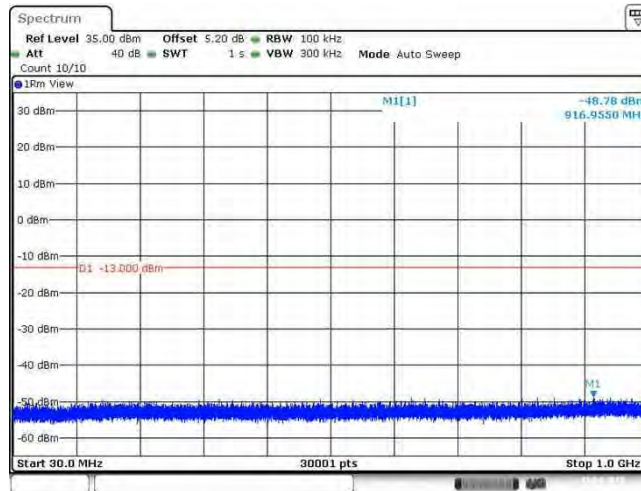


Date: 18 APR. 2019 23:45:37

**Band4\_20MHz\_16QAM\_20050\_1RB#0**

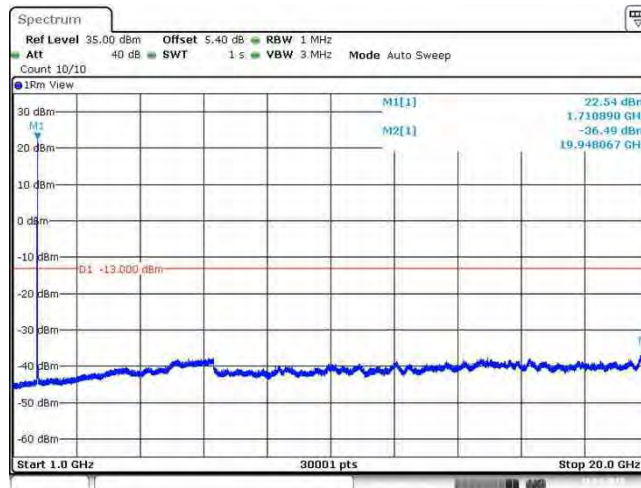


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Date: 18 APR. 2019 23:40:53

Band4\_20MHz\_16QAM\_20050\_1RB#0



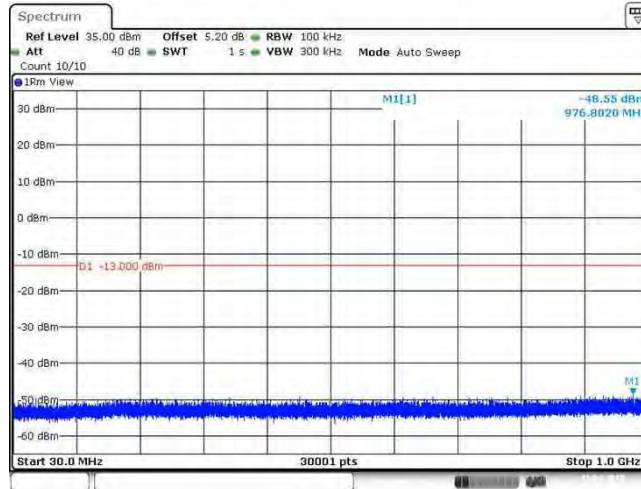
Date: 18 APR. 2019 23:41:42

Band4\_20MHz\_16QAM\_20175\_1RB#0



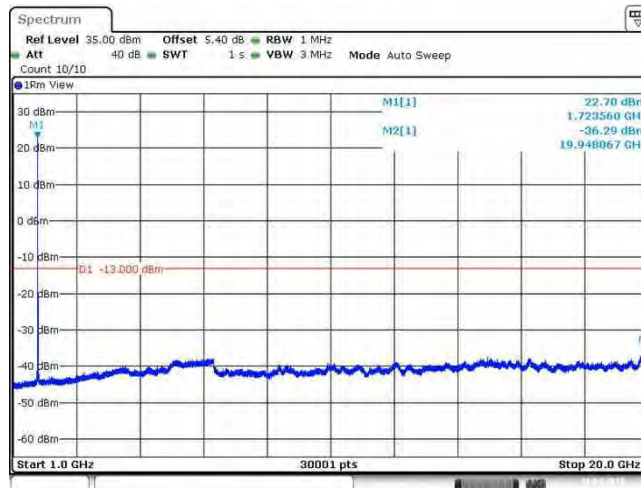
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Date: 18 APR. 2019 23:42:47

**Band4\_20MHz\_16QAM\_20175\_1RB#0**

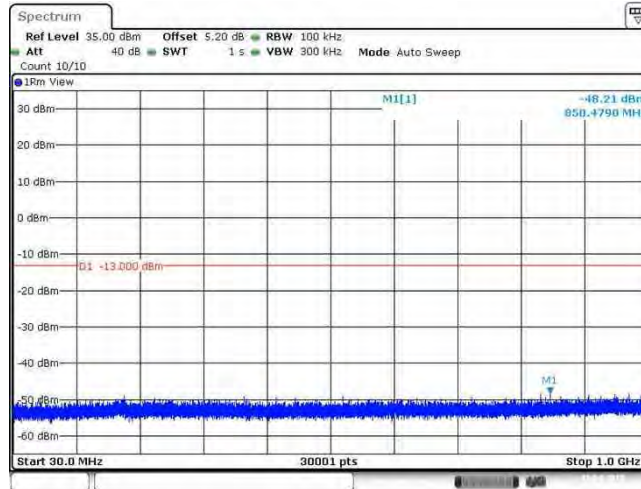


Date: 18 APR. 2019 23:43:06

**Band4\_20MHz\_16QAM\_20300\_1RB#0**

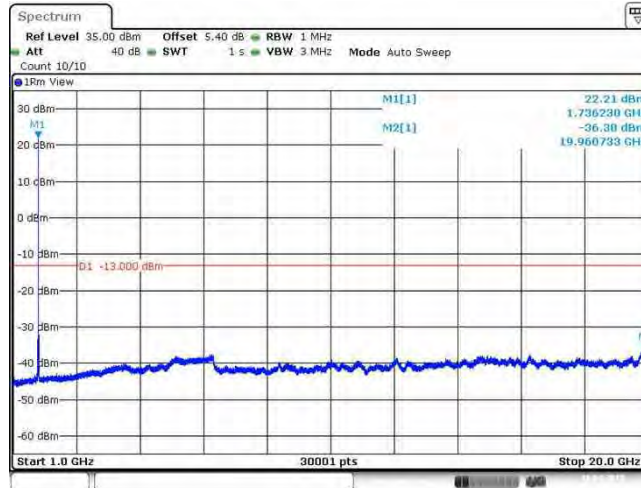


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Date: 18 APR. 2019 23:44:40

**Band4\_20MHz\_16QAM\_20300\_1RB#0**



Date: 18 APR. 2019 23:44:59



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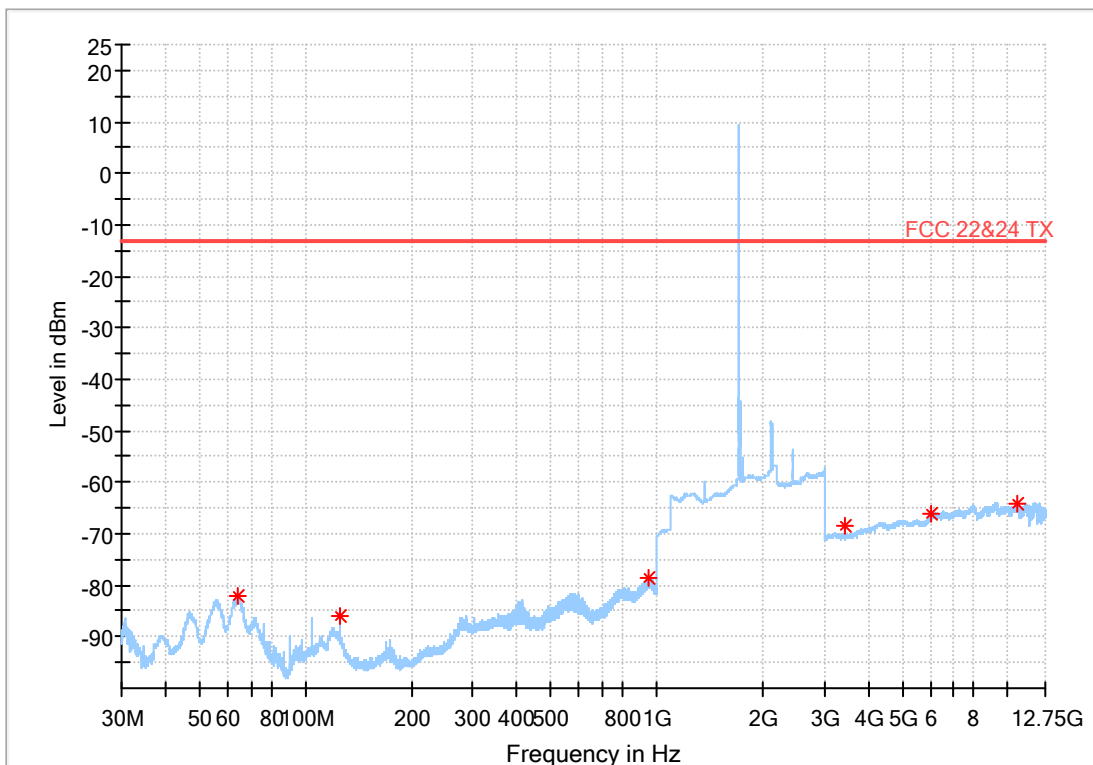
## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band 4

#### 7.1.1. Test Mode = LTE/TM1 Down Ant)

##### 7.1.1.1. Test Channel = LCH\_Vertical

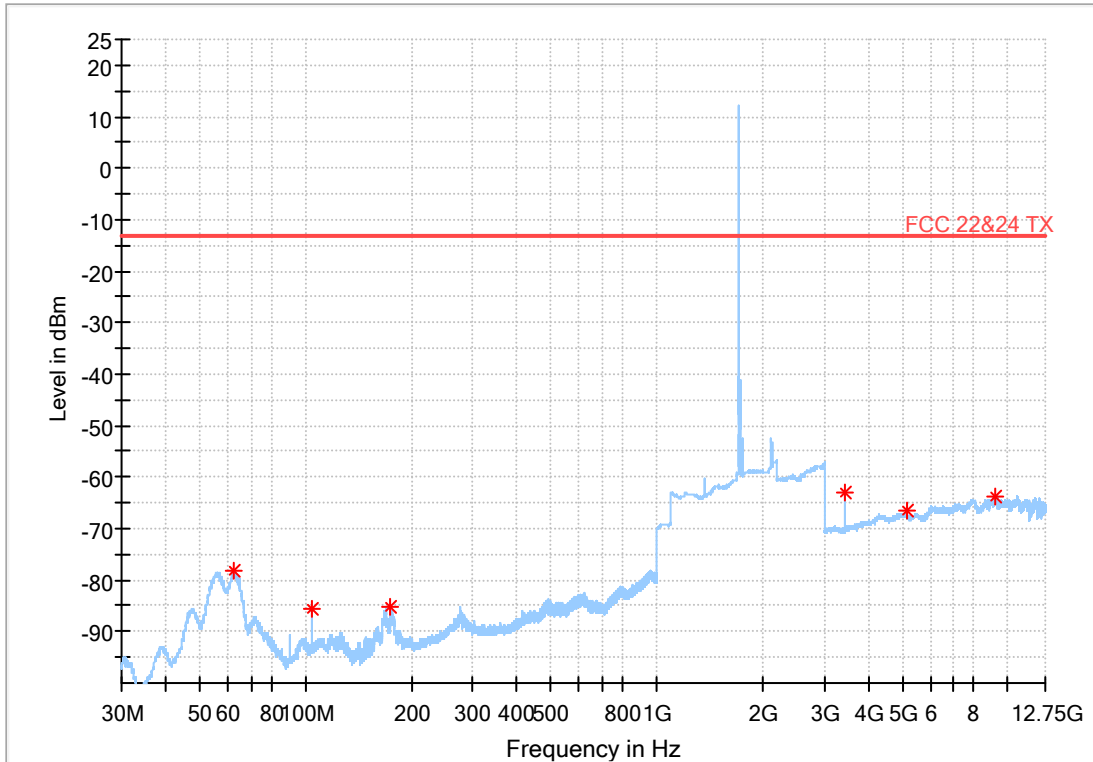
Full Spectrum



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### 7.1.1.2. Test Channel = LCH\_Horizontal

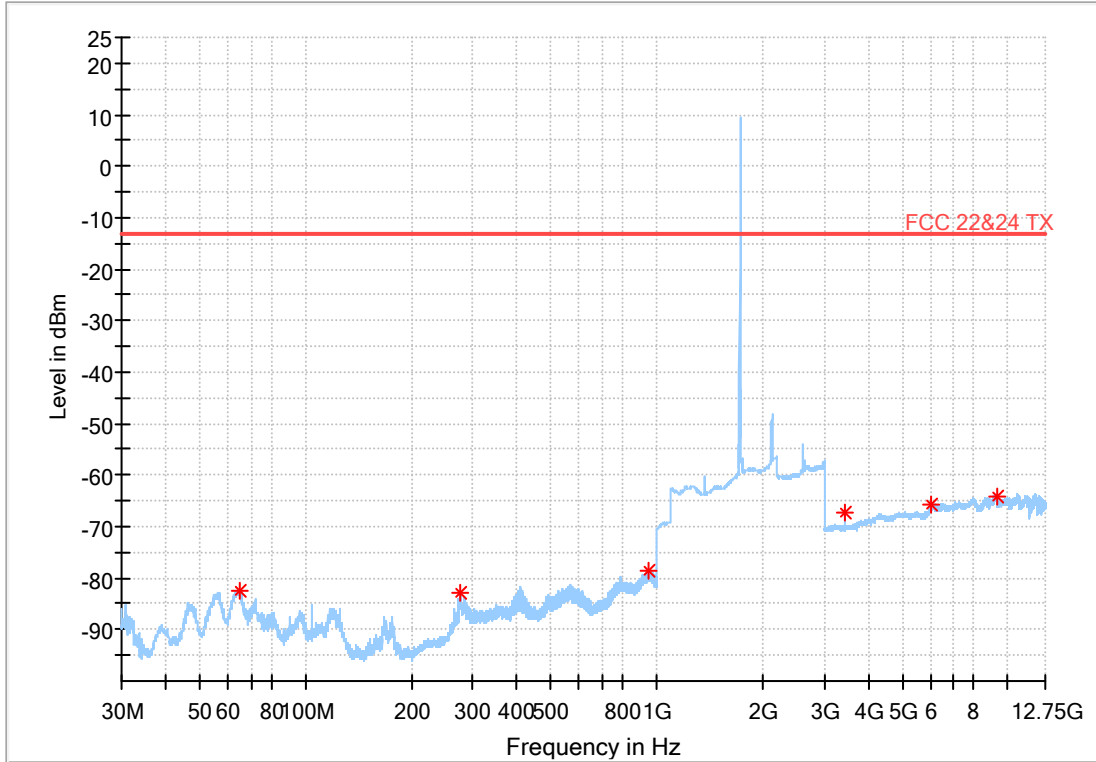
Full Spectrum



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### 7.1.1.3. Test Channel = MCH\_Vertical

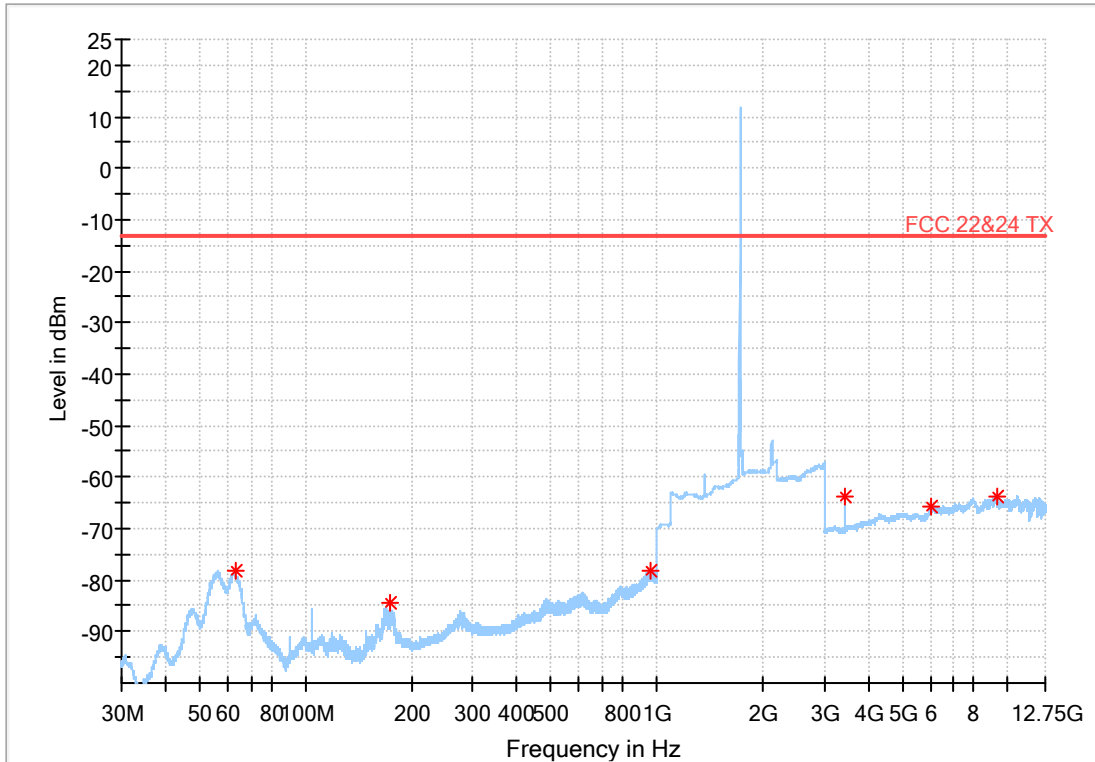
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### 7.1.1.4. Test Channel = MCH\_ Horizontal

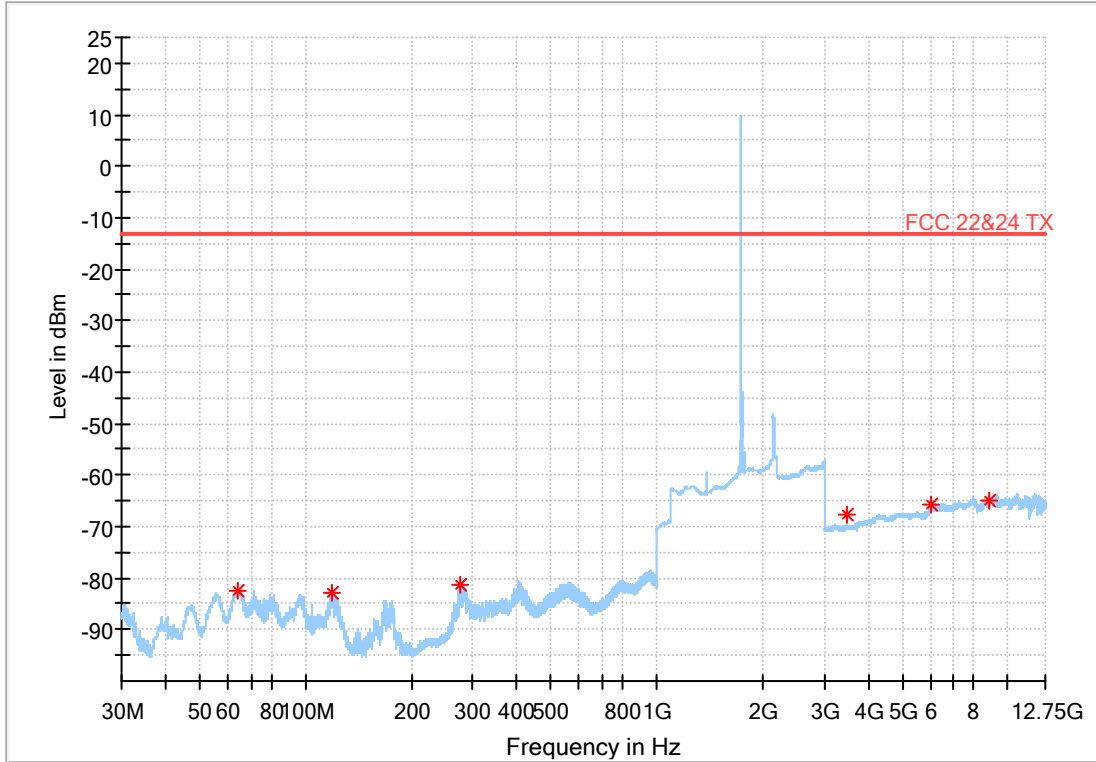
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### 7.1.1.5. Test Channel = HCH\_Vertical

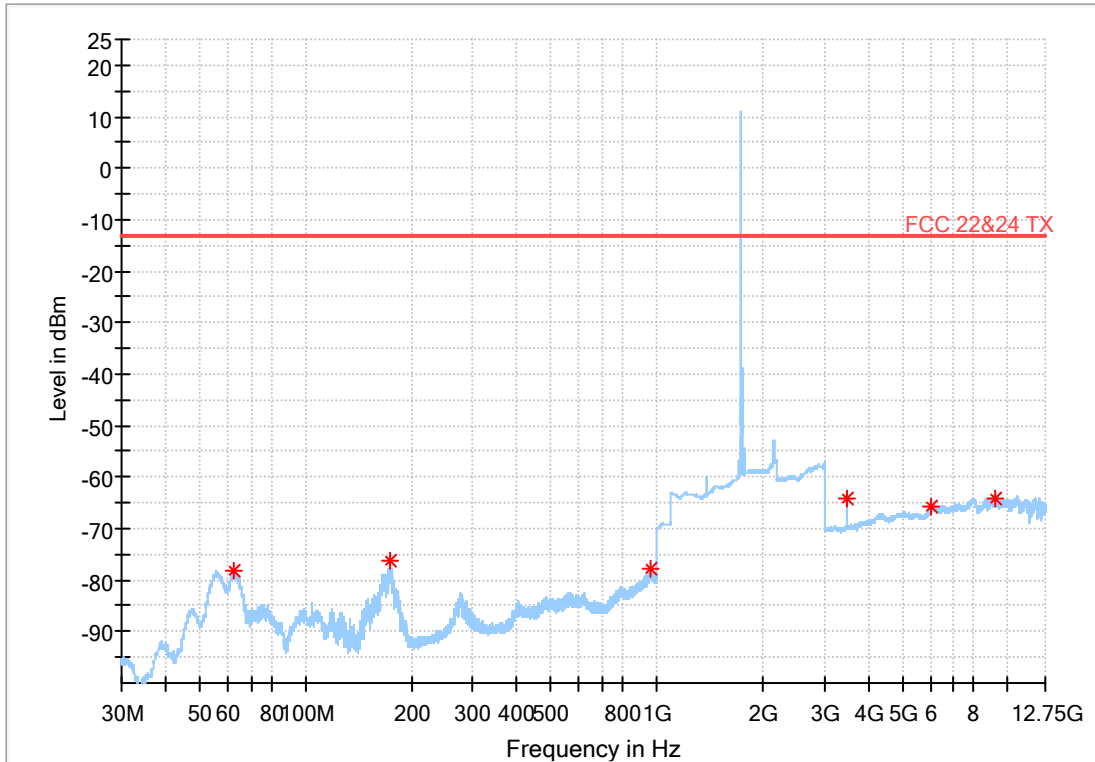
Full Spectrum



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### 7.1.1.6. Test Channel = HCH\_ Horizontal

Full Spectrum



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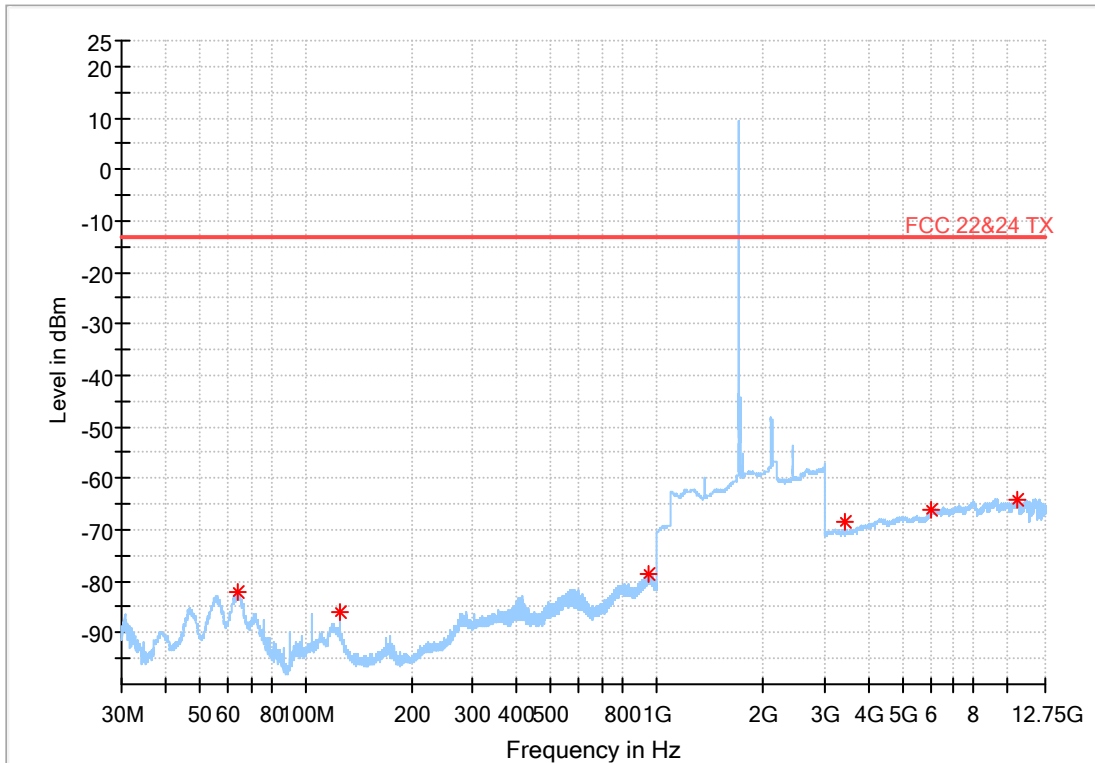
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### 7.1.2. Test Mode = LTE/TM1 (Up Ant)

#### 7.1.2.1. Test Channel = LCH\_Vertical

Full Spectrum

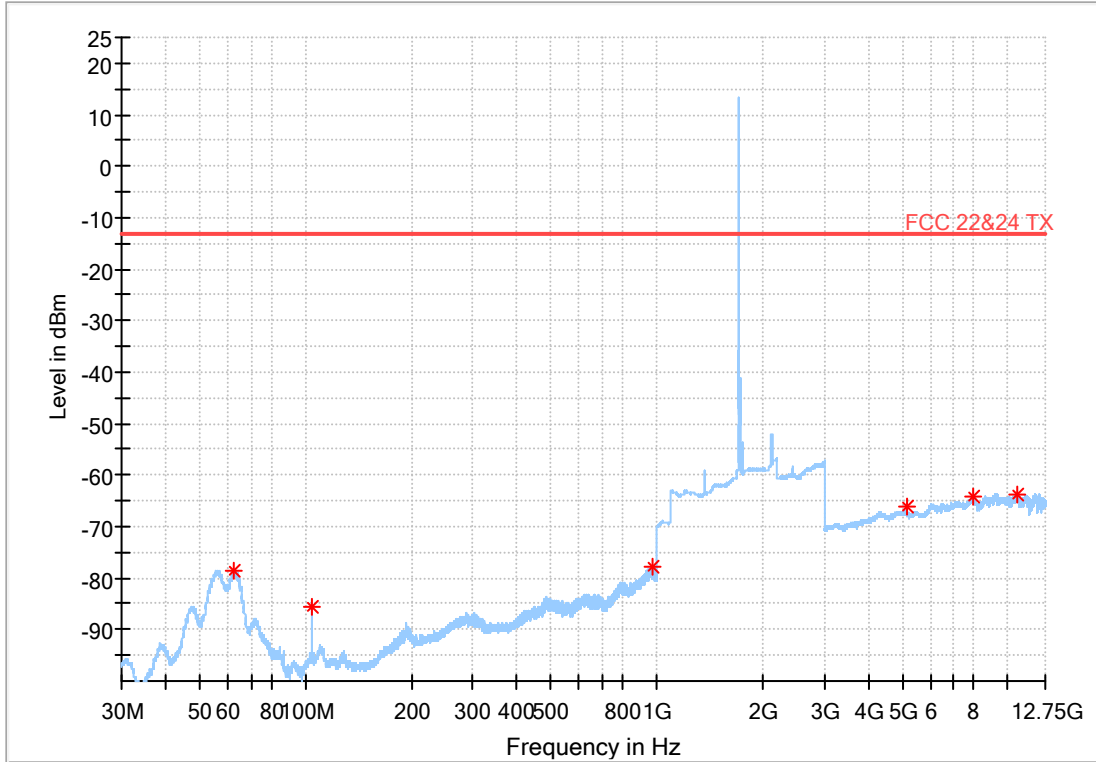


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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 7.1.2.2. Test Channel = LCH\_Horizontal

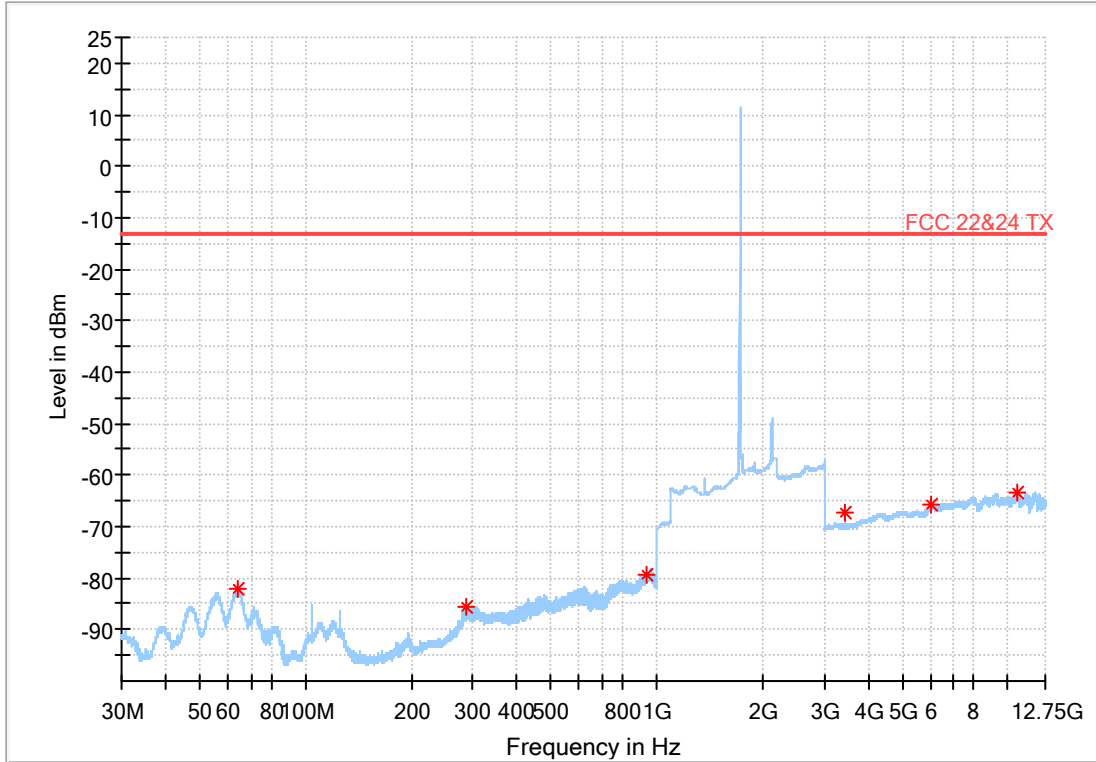
Full Spectrum



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### 7.1.2.3. Test Channel = MCH\_Vertical

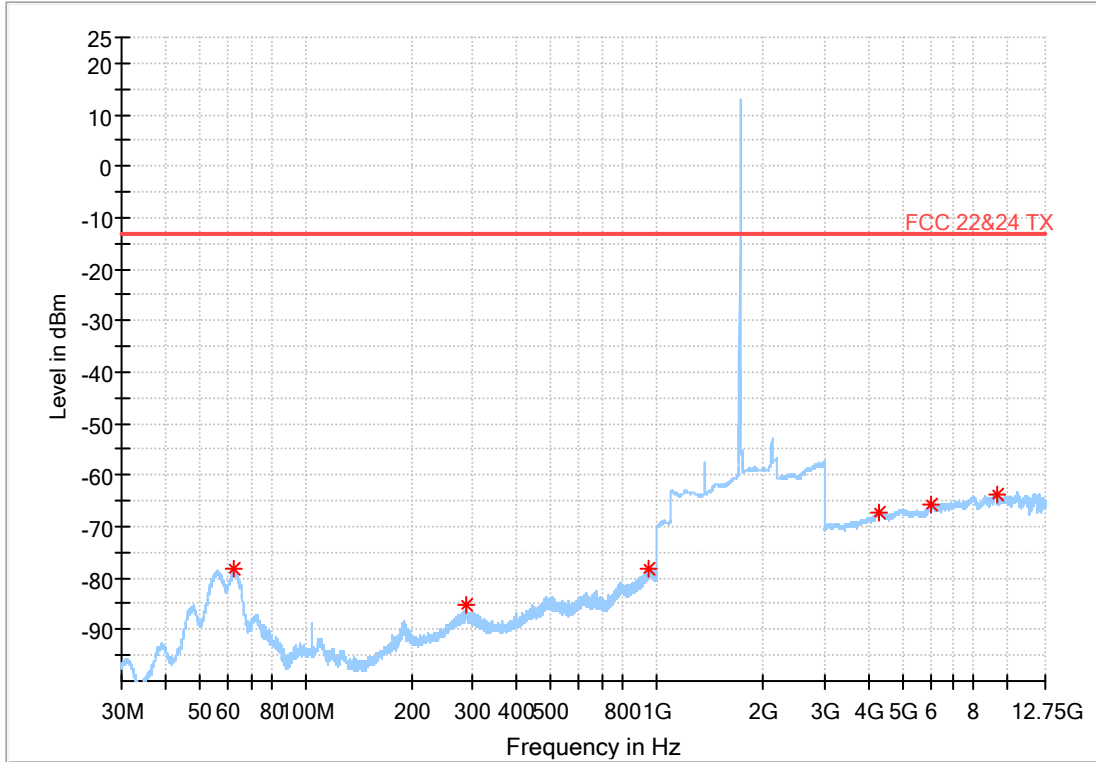
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**7.1.2.4. Test Channel = MCH\_ Horizontal**

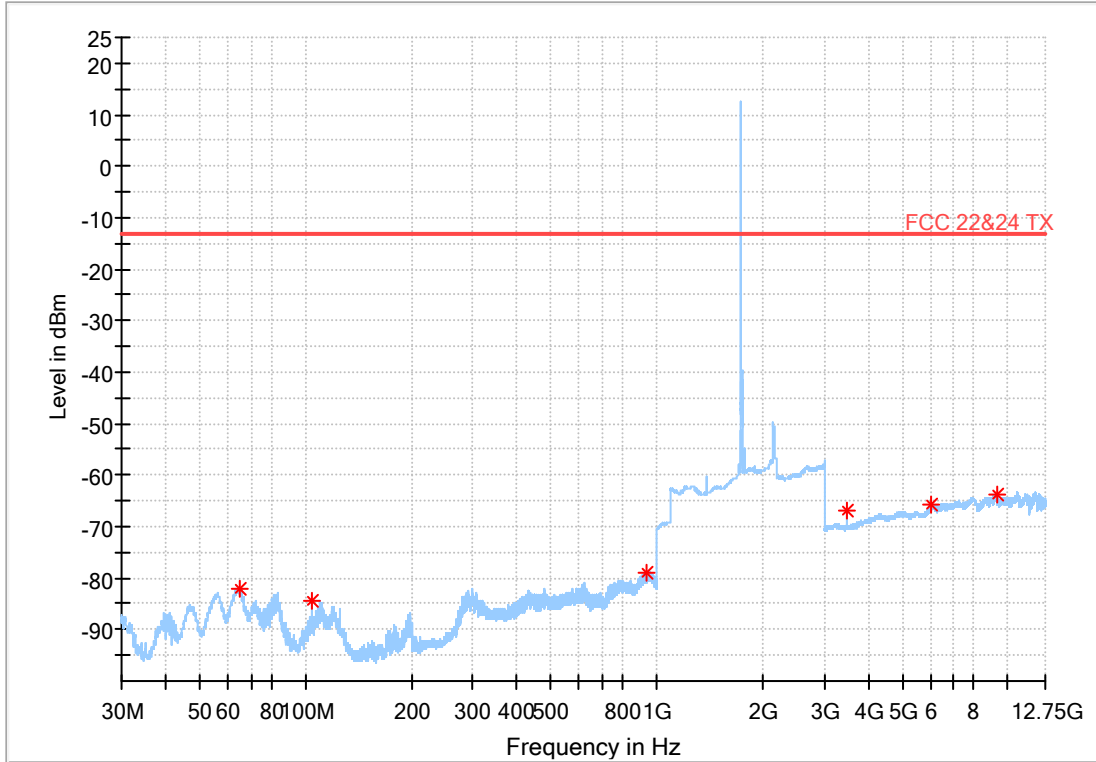
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### 7.1.2.5. Test Channel = HCH\_Vertical

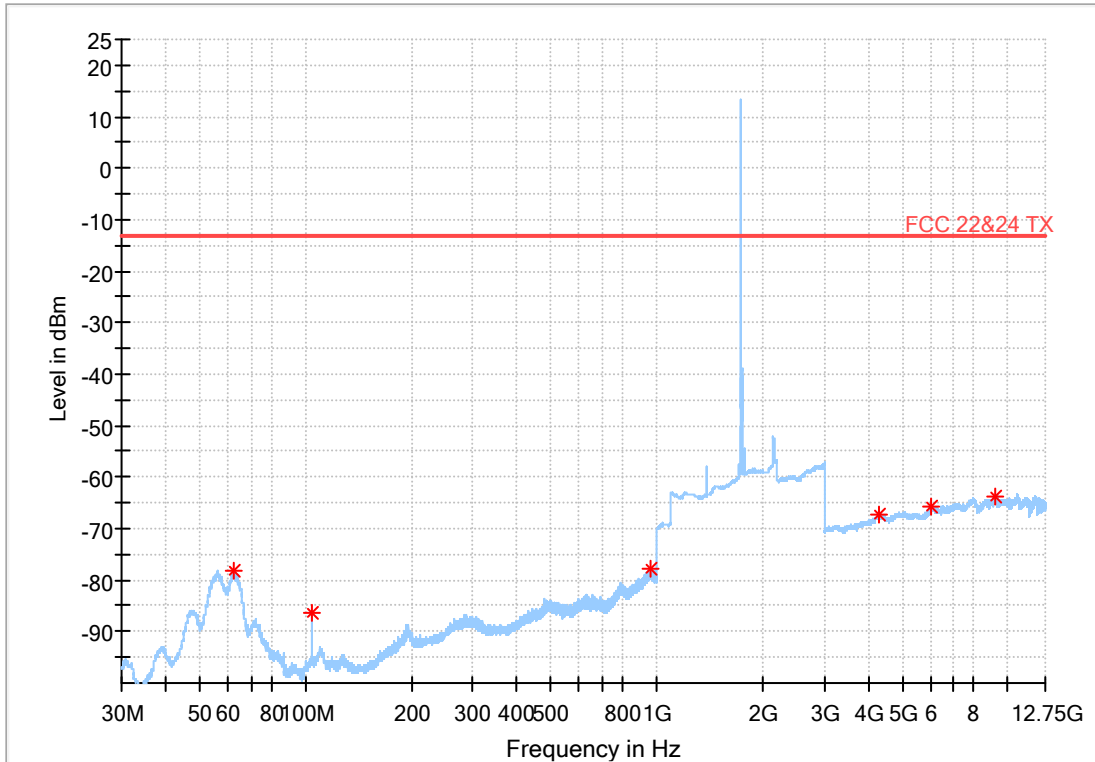
Full Spectrum



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### 7.1.2.6. Test Channel = HCH\_ Horizontal

Full Spectrum



**NOTE:**

- 1) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all combinations and all modulations, but only the worst case data presented in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-3.10	-0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-2.40	-0.001395	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	0.10	0.000057	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-1.70	-0.000974	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	0.20	0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-1.20	-0.000688	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-1.70	-0.000988	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-2.40	-0.001395	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	0.50	0.000289	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	0.10	0.000058	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-0.10	-0.000057	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-0.80	-0.000458	±2.5	PASS



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## 8.2. Frequency Vs Temperature

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	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-3.00	-0.001744	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-3.00	-0.001744	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-1.60	-0.000930	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-1.70	-0.000988	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.30	0.000173	±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	0	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.50	-0.000289	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-0.60	-0.000344	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-0.50	-0.000287	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-0.10	-0.000057	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-0.60	-0.000344	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	-1.90	-0.001105	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-2.70	-0.001570	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-2.20	-0.001279	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-2.00	-0.001163	±2.5	PASS



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Band4	20MHz	64QAM	20050	100RB#0	NV	50	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.30	0.000173	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-0.50	-0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	0.20	0.000115	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-0.80	-0.000458	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-0.10	-0.000057	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-0.40	-0.000229	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-0.60	-0.000344	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-2.20	-0.001279	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-2.00	-0.001163	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-2.30	-0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-2.50	-0.001453	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-2.80	-0.001628	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-2.70	-0.001570	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-2.30	-0.001337	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-0.30	-0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.50	0.000289	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-1.80	-0.001039	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-0.70	-0.000404	±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	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-0.10	-0.000057	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-1.20	-0.000688	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	0.20	0.000115	±2.5	PASS



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