



# Appendix B

## E-UTRA Band 5



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Conducted Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.28	17.83	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.27	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.21	17.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.26	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.32	17.87	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.23	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.30	16.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.35	17.9	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.42	17.97	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.27	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.25	17.8	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.33	17.88	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.30	17.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.39	16.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.07	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.07	17.62	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.98	17.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.04	17.59	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.10	17.65	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.03	17.58	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.10	16.65	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.73	17.28	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.53	17.08	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.30	16.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.20	16.75	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.42	16.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.30	16.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.49	16.04	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.38	16.93	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.68	17.23	38.45	PASS



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Band5	1.4MHz	16QAM	20525	1RB#5	22.78	17.33	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.26	16.81	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.40	16.95	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.19	16.74	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.37	15.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.24	16.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.03	16.58	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.11	16.66	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.09	16.64	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.06	16.61	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.02	16.57	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.08	15.63	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.65	16.2	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.63	16.18	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	21.40	15.95	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.21	15.76	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	21.39	15.94	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.28	15.83	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.52	15.07	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.29	15.84	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.69	16.24	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.75	16.3	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.25	15.8	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	21.31	15.86	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.29	15.84	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.35	14.9	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.20	15.75	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.12	15.67	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.09	15.64	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.05	15.6	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	21.07	15.62	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	20.96	15.51	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.02	14.57	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.35	17.9	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.29	17.84	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.39	17.94	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.38	16.93	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.40	16.95	38.45	PASS



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Band5	3MHz	QPSK	20415	8RB#7	22.29	16.84	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.40	16.95	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.36	17.91	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.43	17.98	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.45	18	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.46	17.01	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.37	16.92	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.35	16.9	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.46	17.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.94	17.49	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.99	17.54	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.21	17.76	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.14	16.69	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.10	16.65	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.15	16.7	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.20	16.75	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.57	17.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.70	17.25	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.62	17.17	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.30	15.85	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.30	15.85	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.41	15.96	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.30	15.85	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.47	17.02	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.42	16.97	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.80	17.35	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.41	15.96	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.58	16.13	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.34	15.89	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.56	16.11	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.33	16.88	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.30	16.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.74	17.29	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.05	15.6	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.13	15.68	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.17	15.72	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.17	15.72	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.74	16.29	38.45	PASS



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Band5	3MHz	64QAM	20415	1RB#8	21.51	16.06	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.30	15.85	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	21.25	15.8	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	21.41	15.96	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	21.34	15.89	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.50	15.05	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.45	16	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.74	16.29	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.83	16.38	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	21.28	15.83	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	21.34	15.89	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	21.23	15.78	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.36	14.91	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.26	15.81	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.07	15.62	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.12	15.67	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	21.19	15.74	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	21.04	15.59	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.95	15.5	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.05	14.6	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.34	17.89	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.29	17.84	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.47	18.02	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.43	16.98	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.49	17.04	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.45	17	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.44	16.99	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.39	17.94	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.43	17.98	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.34	17.89	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.51	17.06	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.49	17.04	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.47	17.02	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.54	17.09	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.19	17.74	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.23	17.78	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.01	17.56	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.27	16.82	38.45	PASS



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Band5	5MHz	QPSK	20625	12RB#6	22.25	16.8	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.21	16.76	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.18	16.73	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.94	17.49	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.69	17.24	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.02	17.57	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.48	16.03	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.42	15.97	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.51	16.06	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.46	16.01	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.35	16.9	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.86	17.41	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.78	17.33	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.57	16.12	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.48	16.03	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.48	16.03	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.54	16.09	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.77	17.32	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.70	17.25	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.42	16.97	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.30	15.85	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.21	15.76	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.31	15.86	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.34	15.89	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.67	16.22	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.57	16.12	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.27	15.82	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	21.22	15.77	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	21.50	16.05	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	21.28	15.83	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.45	15	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.34	15.89	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.76	16.31	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.83	16.38	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	21.23	15.78	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#6	21.41	15.96	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	21.20	15.75	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.35	14.9	38.45	PASS



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Band5	5MHz	64QAM	20625	1RB#0	21.28	15.83	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.05	15.6	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.05	15.6	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	21.07	15.62	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	21.13	15.68	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.97	15.52	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.13	14.68	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.37	17.92	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.47	18.02	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.22	17.77	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.42	16.97	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.50	17.05	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.45	17	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.44	16.99	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.27	17.82	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.57	18.12	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.29	17.84	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.49	17.04	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.53	17.08	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.47	17.02	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.42	16.97	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.43	17.98	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.35	17.9	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.09	17.64	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.42	16.97	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.39	16.94	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.25	16.8	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.32	16.87	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.51	17.06	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.50	17.05	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.06	17.61	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.44	15.99	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.51	16.06	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.29	15.84	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.47	16.02	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.93	17.48	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.03	17.58	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.54	17.09	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#0	21.39	15.94	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.44	15.99	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.48	16.03	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.40	15.95	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.90	17.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.82	17.37	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.36	16.91	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.37	15.92	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.43	15.98	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.22	15.77	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.40	15.95	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.67	16.22	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.63	16.18	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.23	15.78	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	21.20	15.75	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	21.46	16.01	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	21.35	15.9	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.43	14.98	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.36	15.91	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.78	16.33	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.70	16.25	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	21.22	15.77	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	21.32	15.87	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	21.19	15.74	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.37	14.92	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.30	15.85	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.01	15.56	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.05	15.6	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	21.18	15.73	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	21.16	15.71	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	21.02	15.57	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.08	14.63	38.45	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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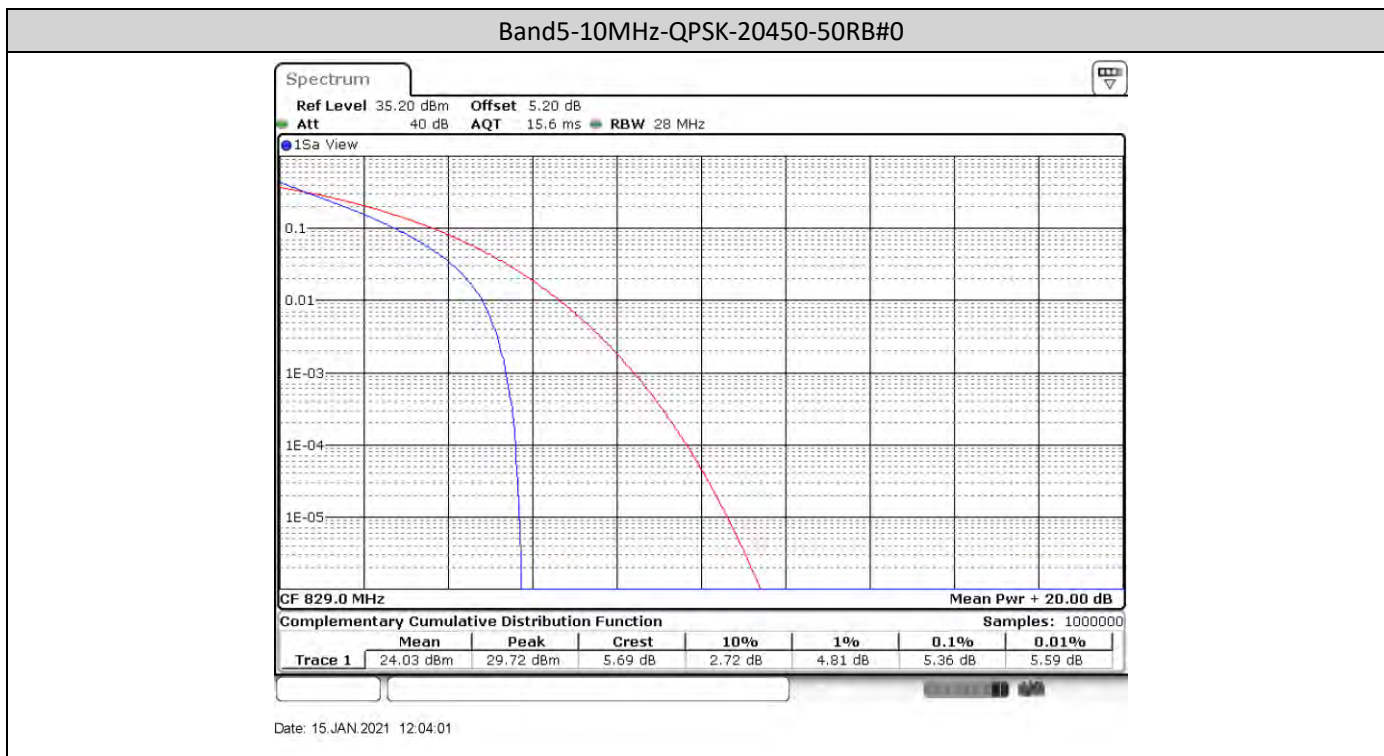


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.36	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.45	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.45	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.96	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.93	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.96	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.20	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.26	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.29	13	PASS

### 2.2. Test Plots



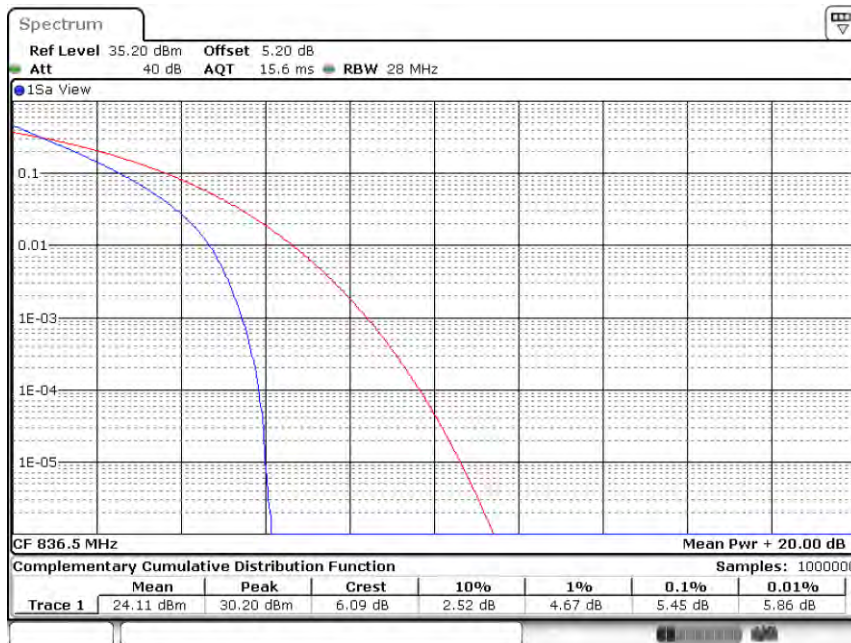
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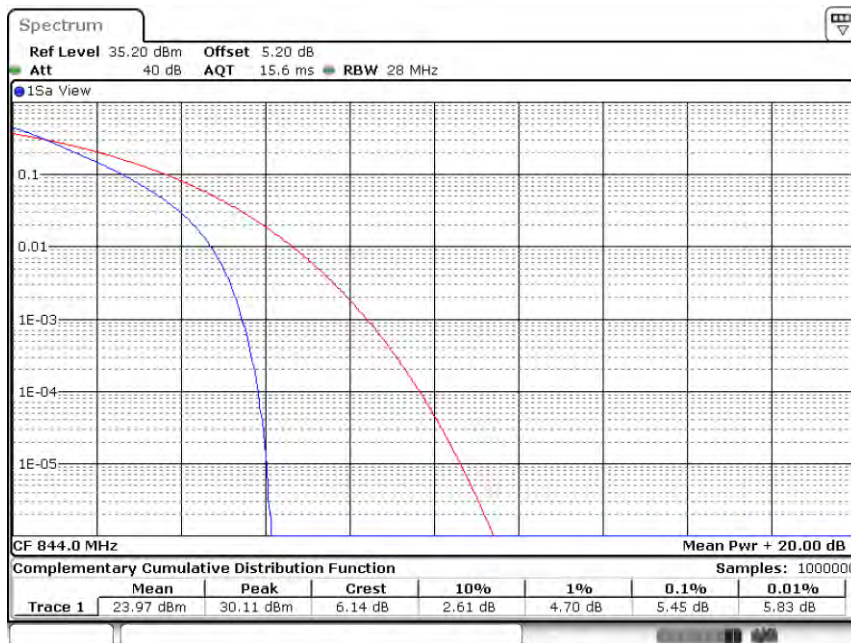


**Band5-10MHz-QPSK-20525-50RB#0**



Date: 15 JAN 2021 12:04:24

**Band5-10MHz-QPSK-20600-50RB#0**



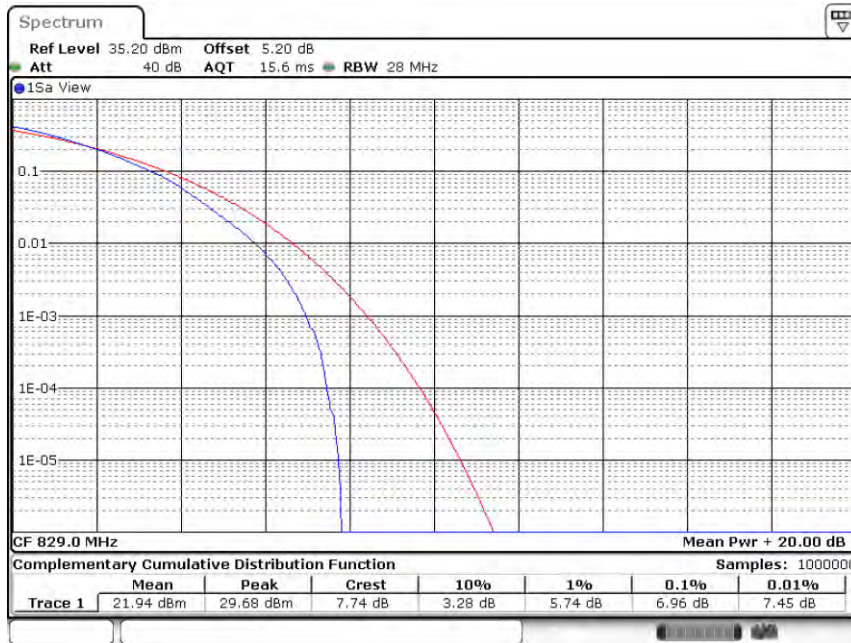
Date: 15 JAN 2021 12:04:46



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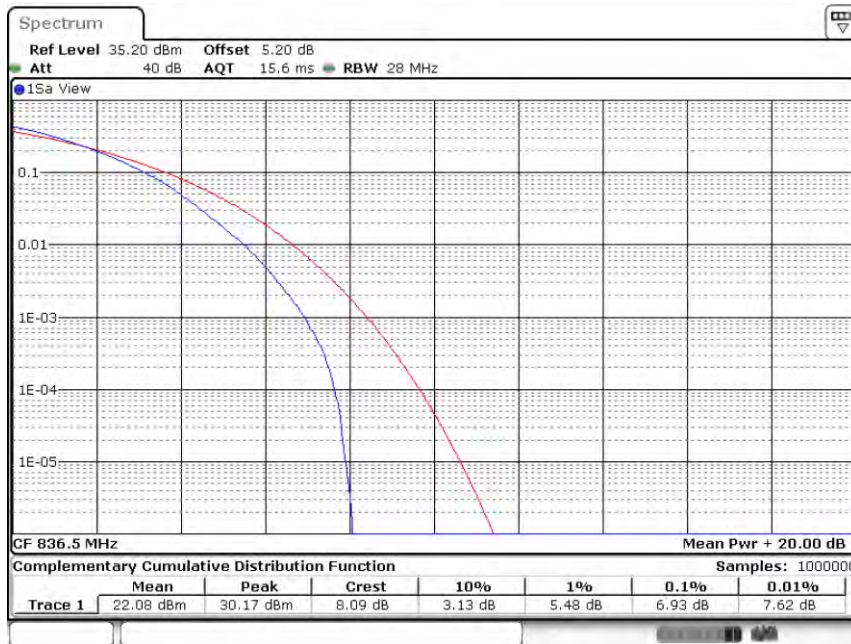
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**Band5-10MHz-64QAM-20450-50RB#0**



Date: 15 JAN 2021 12:47:13

**Band5-10MHz-64QAM-20525-50RB#0**



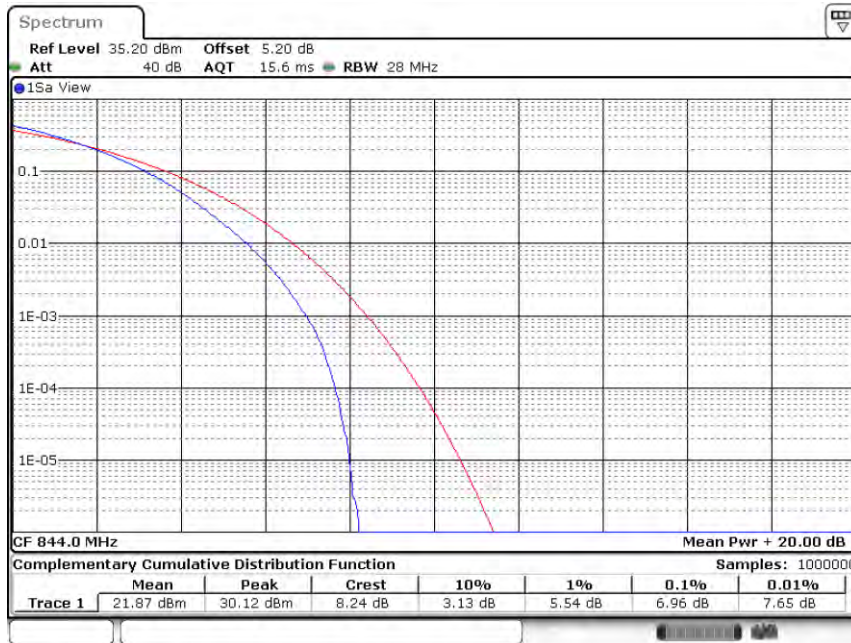
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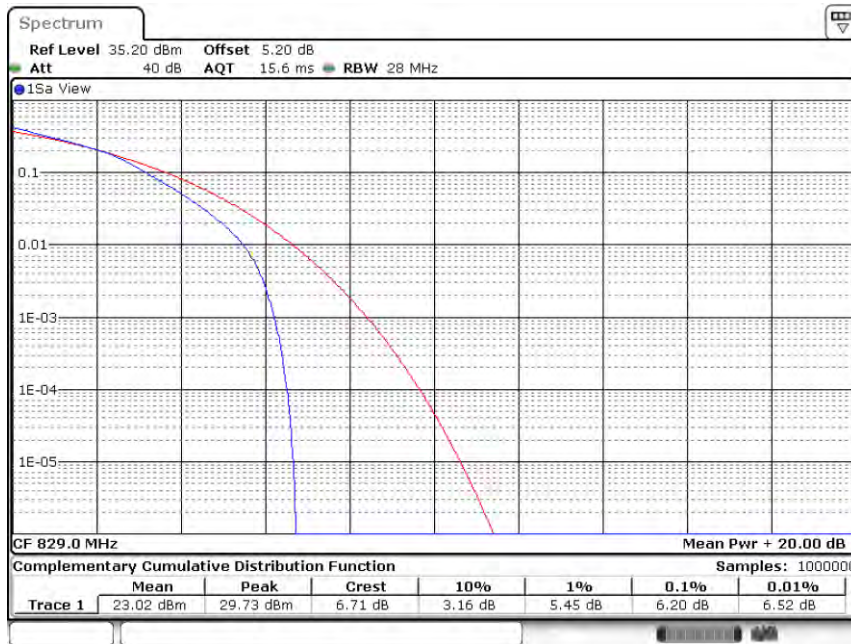


**Band5-10MHz-64QAM-20600-50RB#0**



Date: 15 JAN 2021 12:47:35

**Band5-10MHz-16QAM-20450-50RB#0**



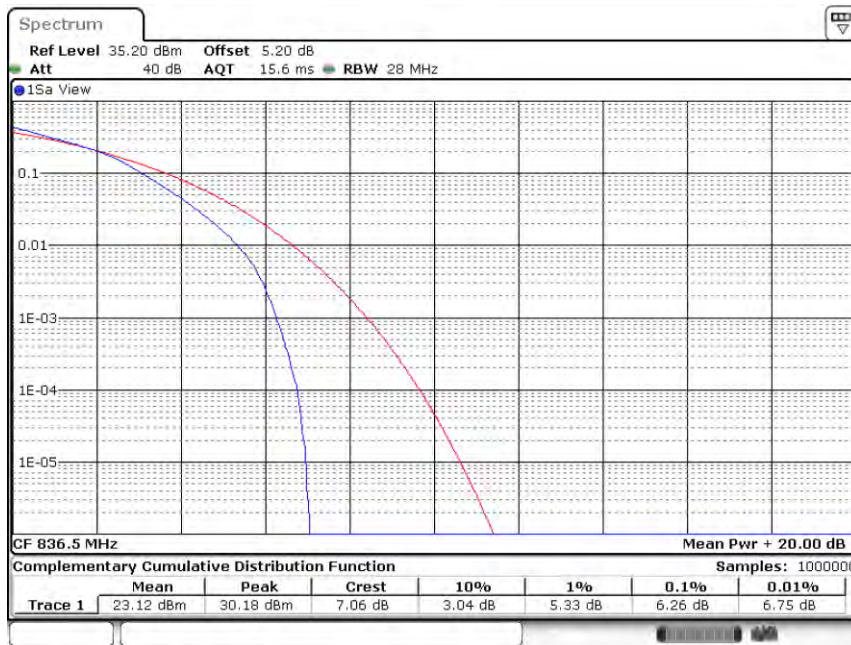
Date: 15 JAN 2021 12:04:12



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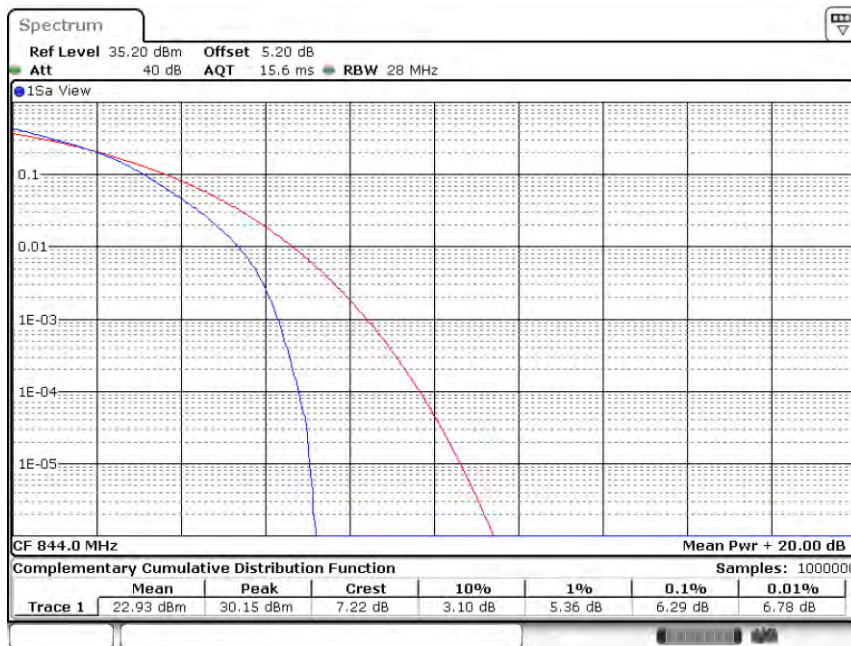


**Band5-10MHz-16QAM-20525-50RB#0**



Date: 15 JAN 2021 12:04:35

**Band5-10MHz-16QAM-20600-50RB#0**



Date: 15 JAN 2021 12:04:57

Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



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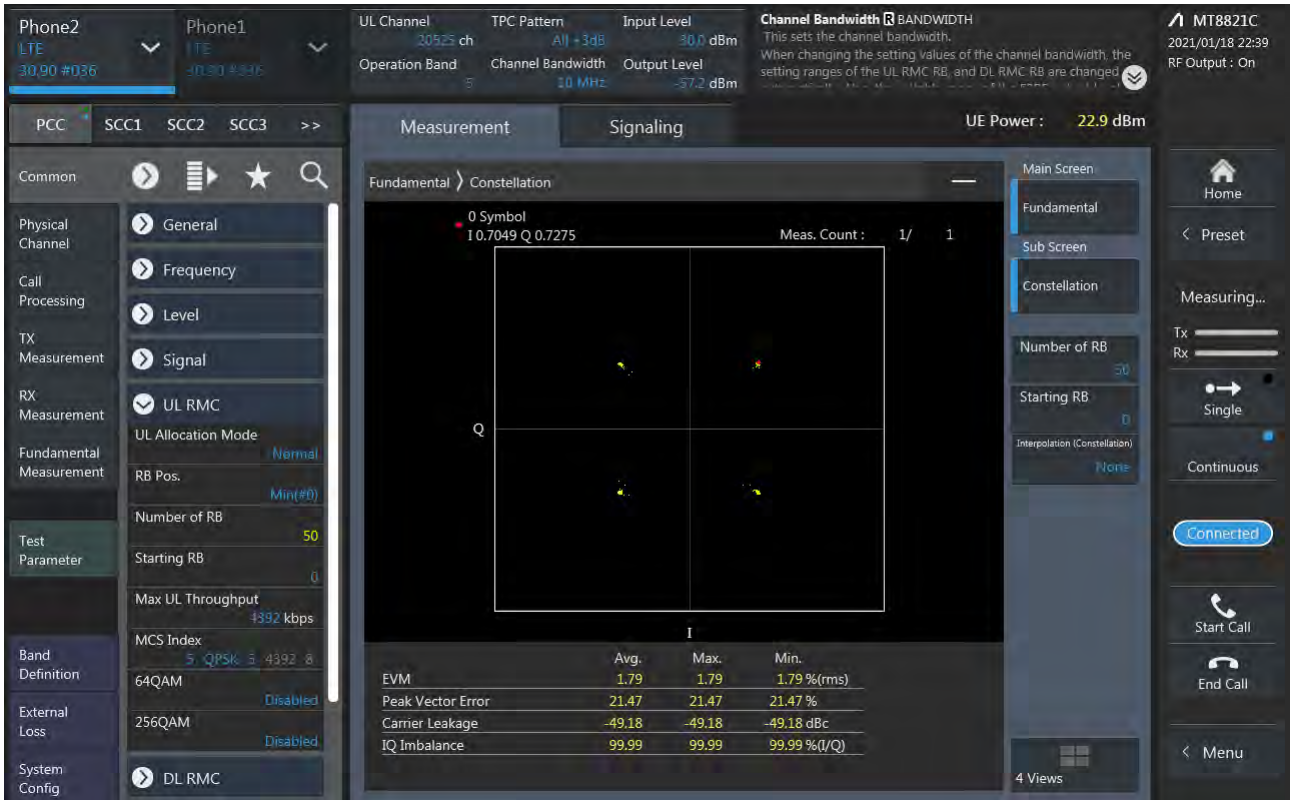
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



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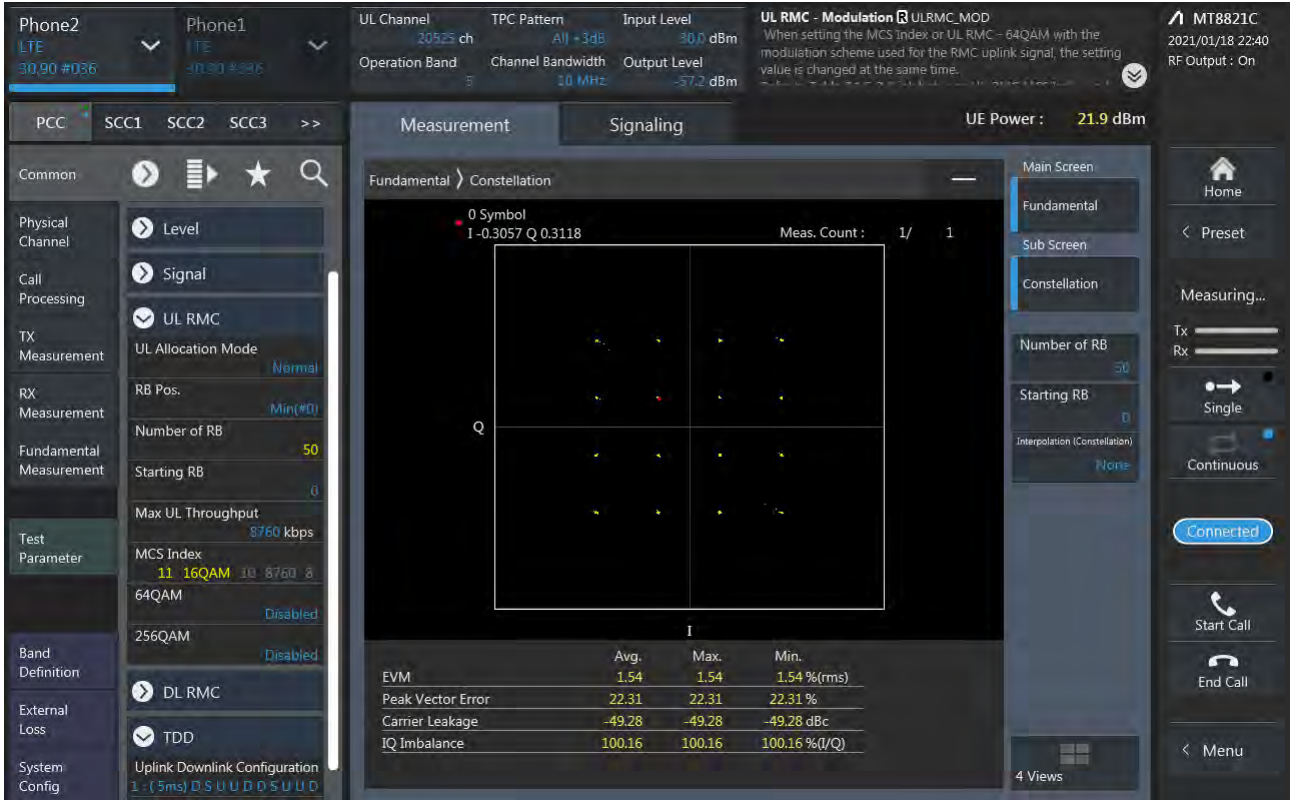
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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.236	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.236	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.088	1.239	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.245	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.094	1.242	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.094	1.239	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.239	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.233	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.088	1.239	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	3.012	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.994	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.691	2.988	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.994	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.988	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.988	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.910	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.910	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.900	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.870	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.496	4.900	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.900	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.910	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.740	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.640	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.911	9.680	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.660	PASS



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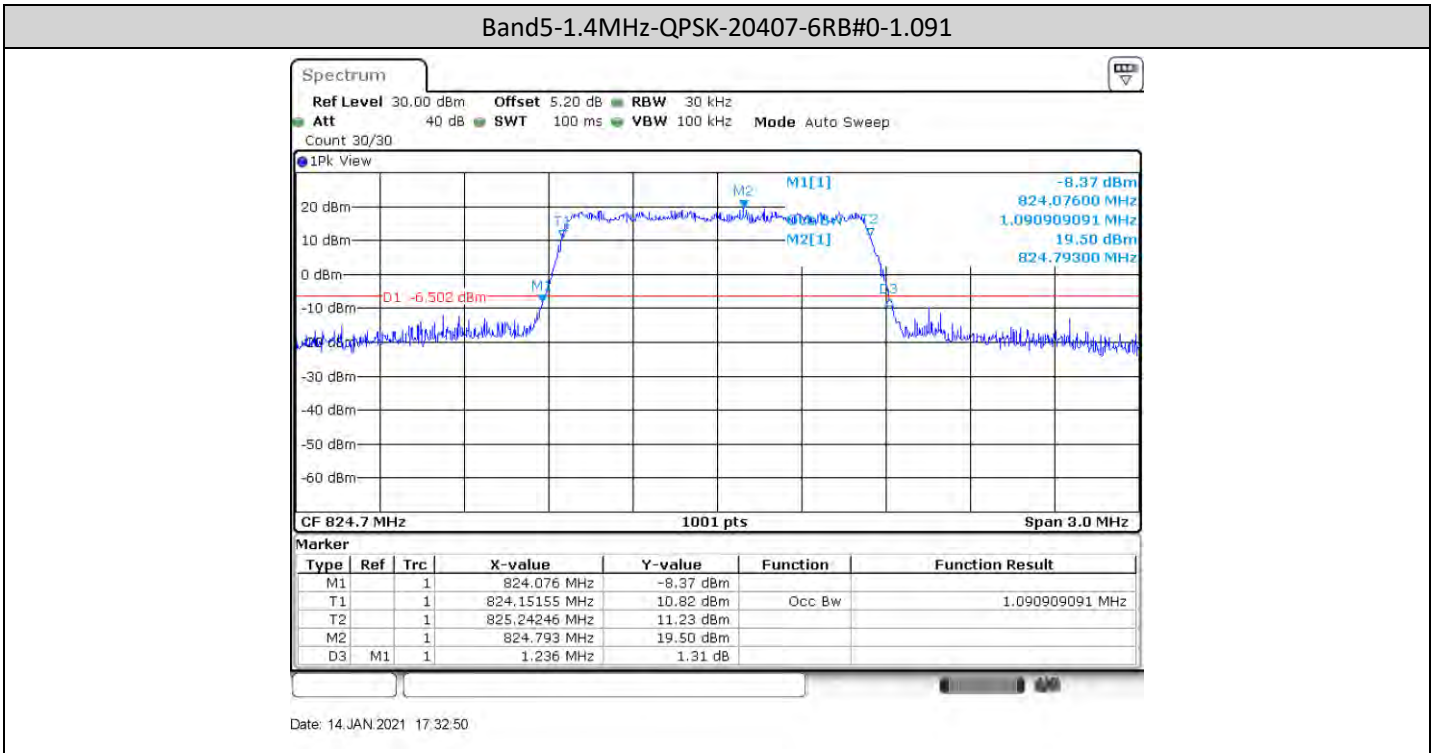
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Band5	10MHz	64QAM	20525	50RB#0	8.911	9.560	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.740	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.931	9.680	PASS

## 4.2. Test Plots

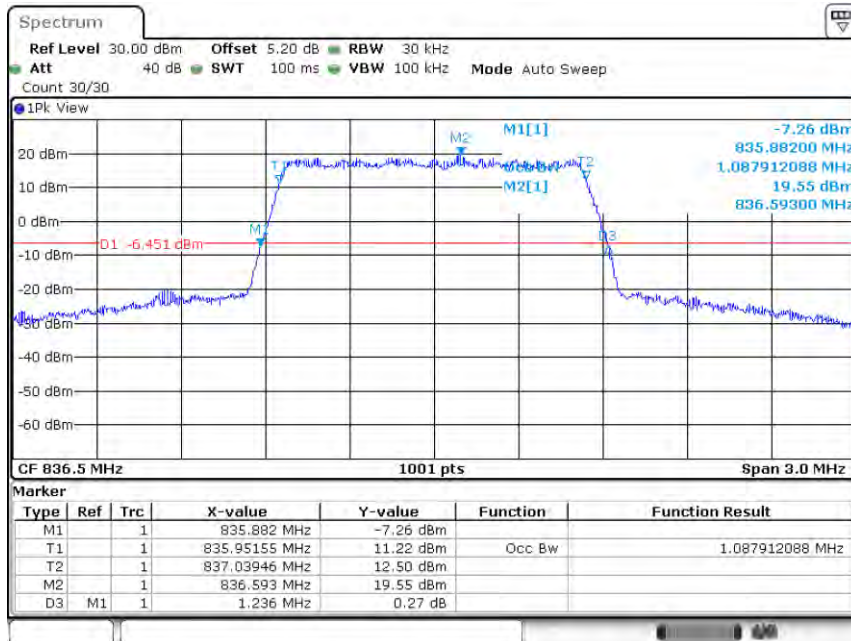


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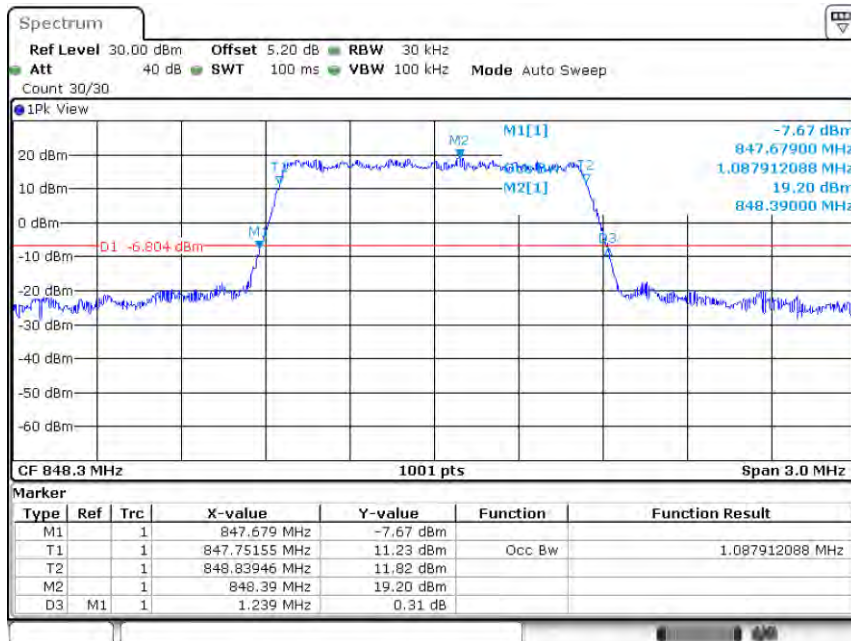
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**Band5-1.4MHz-QPSK-20525-6RB#0-1.088**



Date: 14.JAN.2021 17:33:16

**Band5-1.4MHz-QPSK-20643-6RB#0-1.088**



Date: 14.JAN.2021 17:33:42

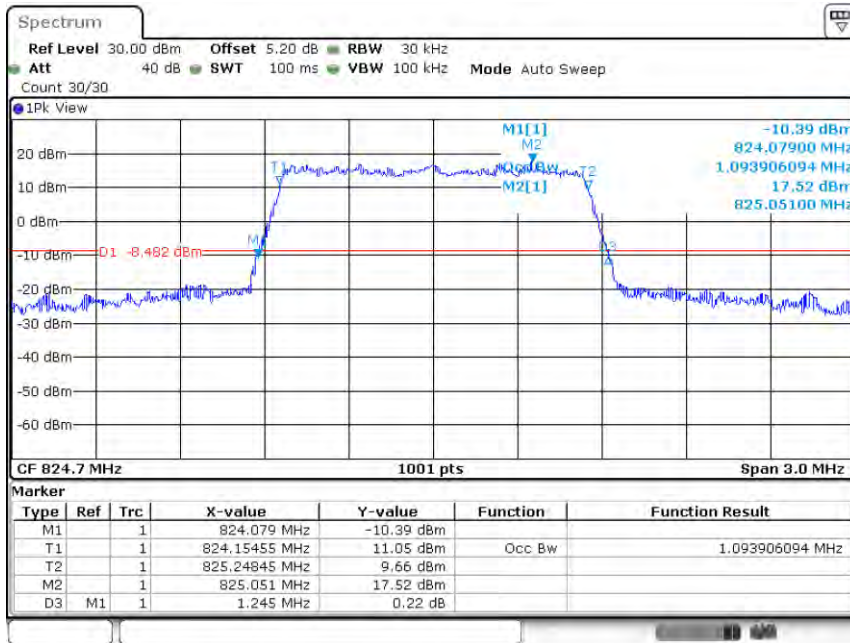


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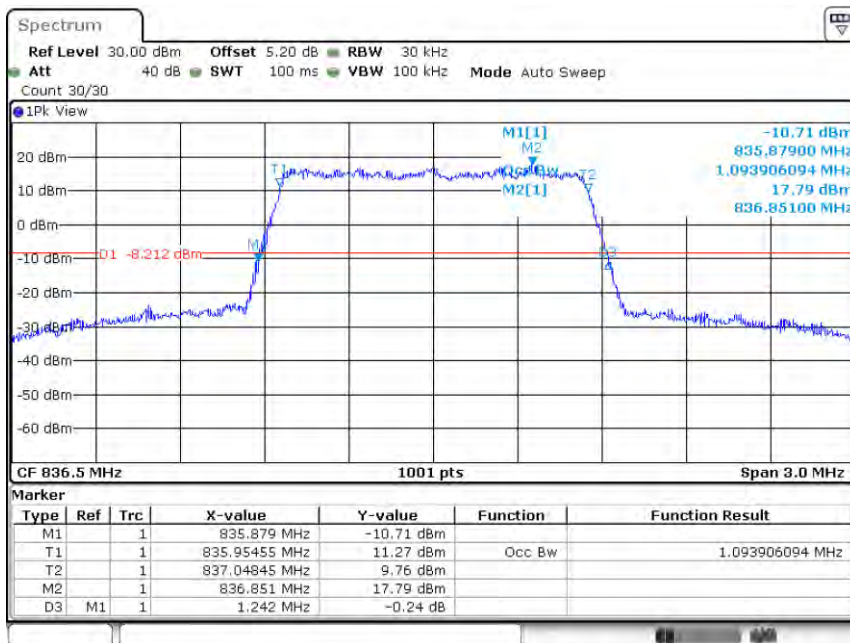


**Band5-1.4MHz-64QAM-20407-6RB#0-1.094**



Date: 15 JAN 2021 12:33:08

**Band5-1.4MHz-64QAM-20525-6RB#0-1.094**



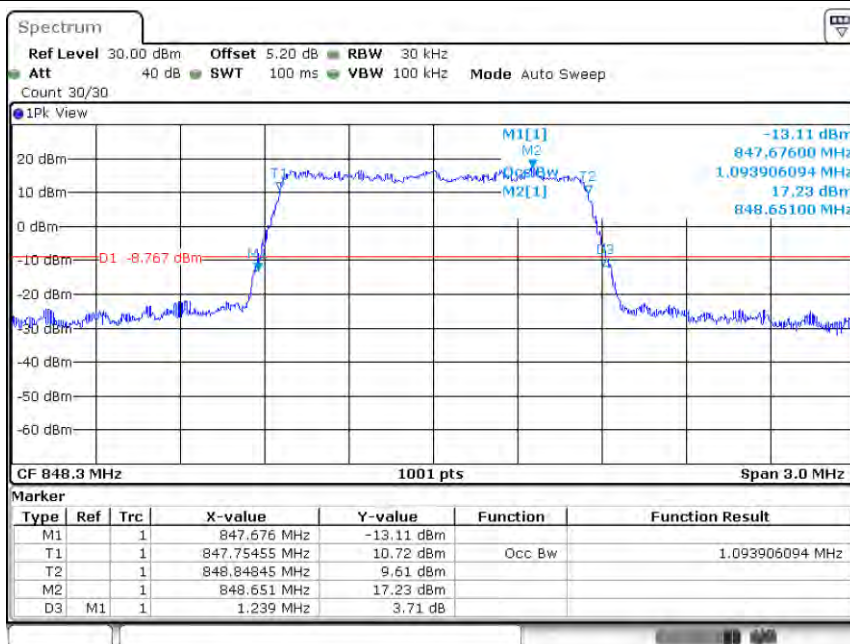
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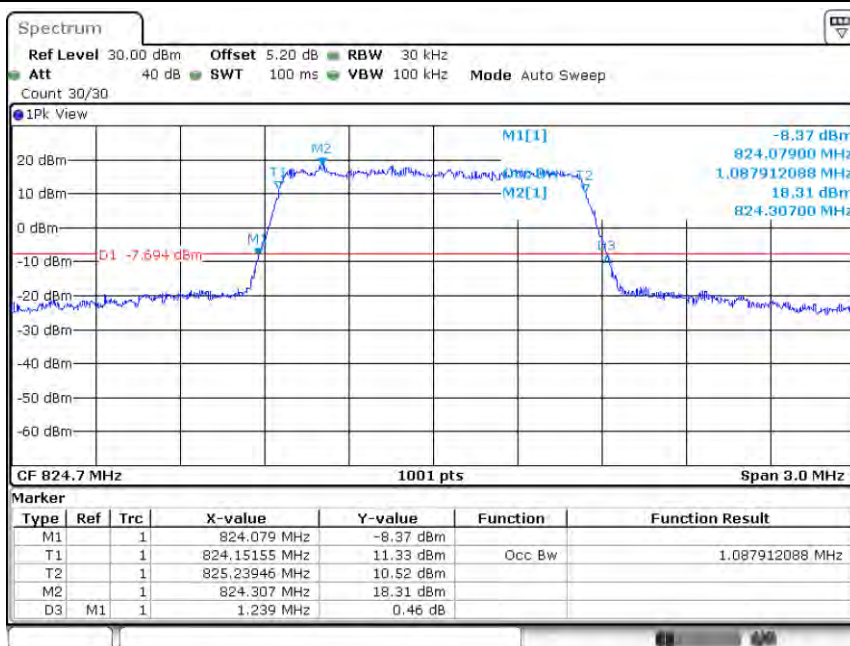


**Band5-1.4MHz-64QAM-20643-6RB#0-1.094**



Date: 15.JAN.2021 12:33:34

**Band5-1.4MHz-16QAM-20407-6RB#0-1.088**



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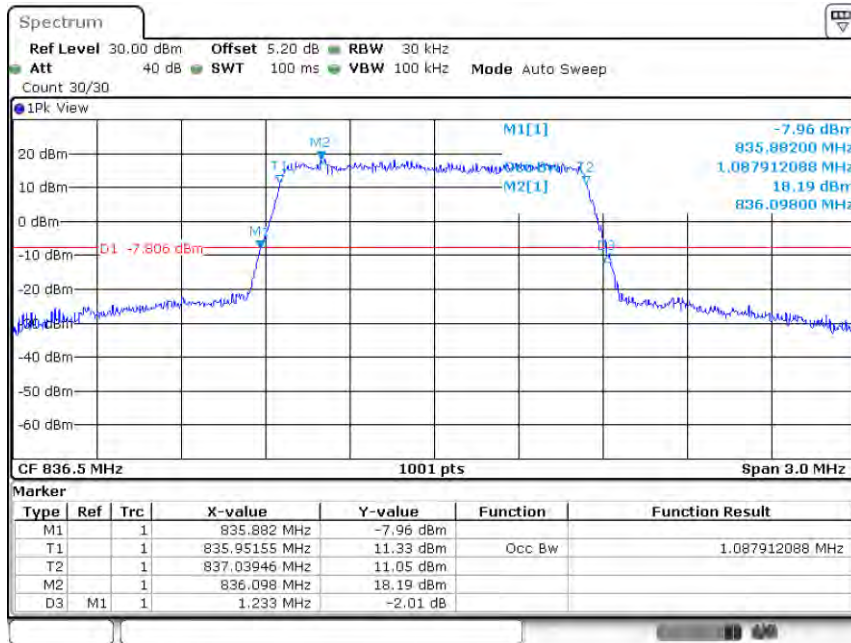
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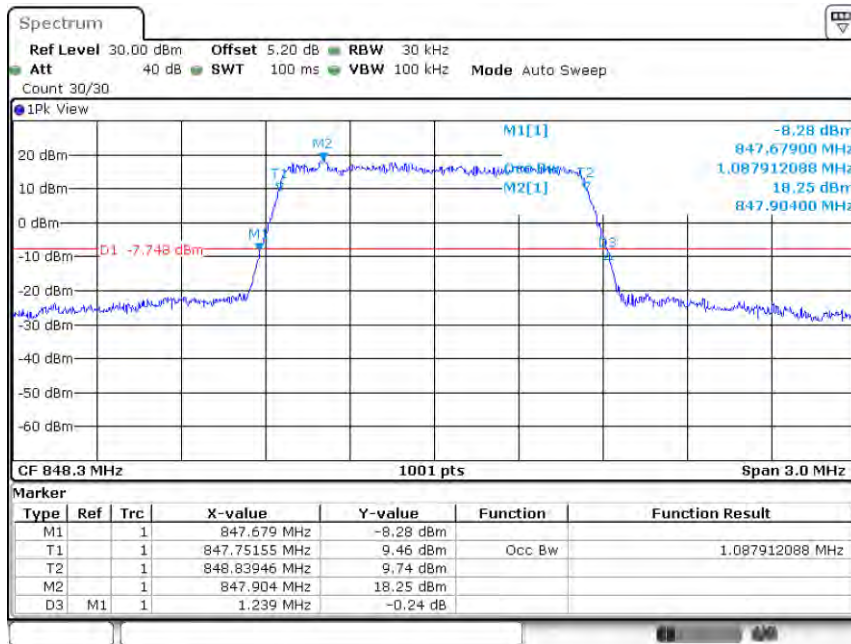


**Band5-1.4MHz-16QAM-20525-6RB#0-1.088**



Date: 14.JAN.2021 17:33:29

**Band5-1.4MHz-16QAM-20643-6RB#0-1.088**



Date: 14.JAN.2021 17:33:54

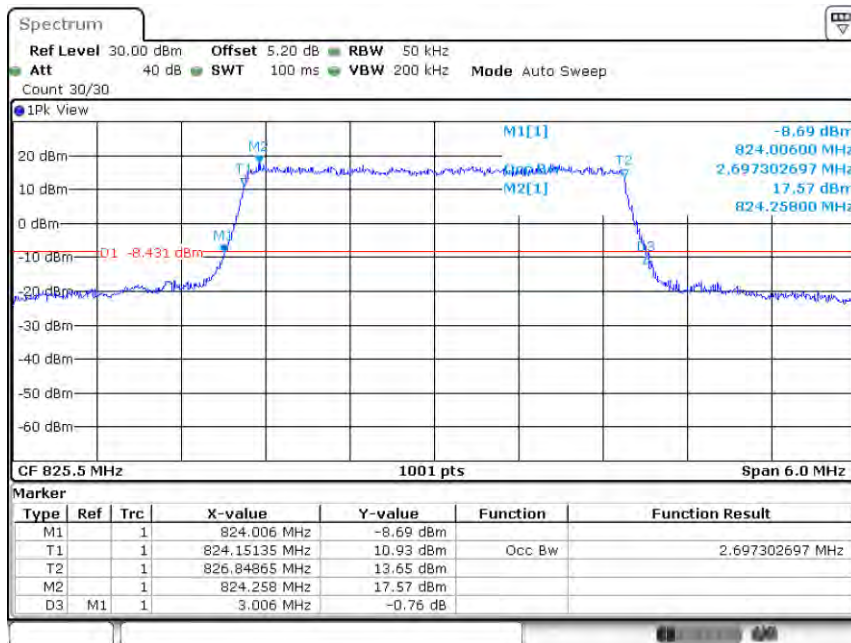


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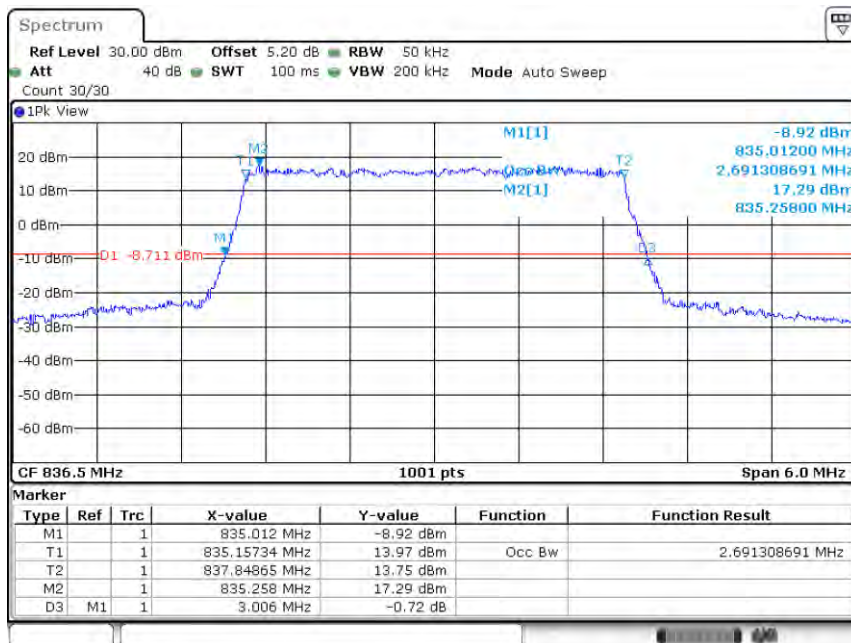


**Band5-3MHz-QPSK-20415-15RB#0-2.697**



Date: 14.JAN.2021 17:34:12

**Band5-3MHz-QPSK-20525-15RB#0-2.691**

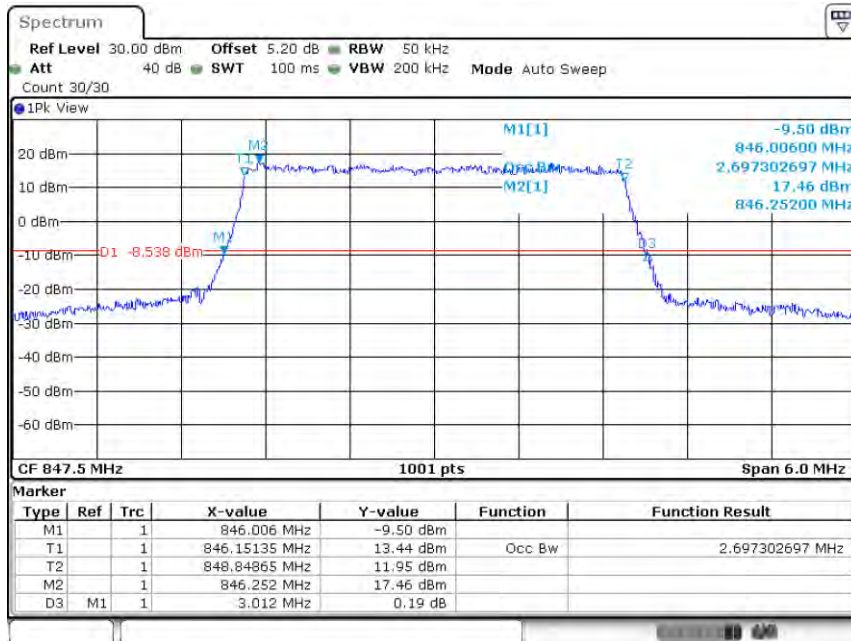


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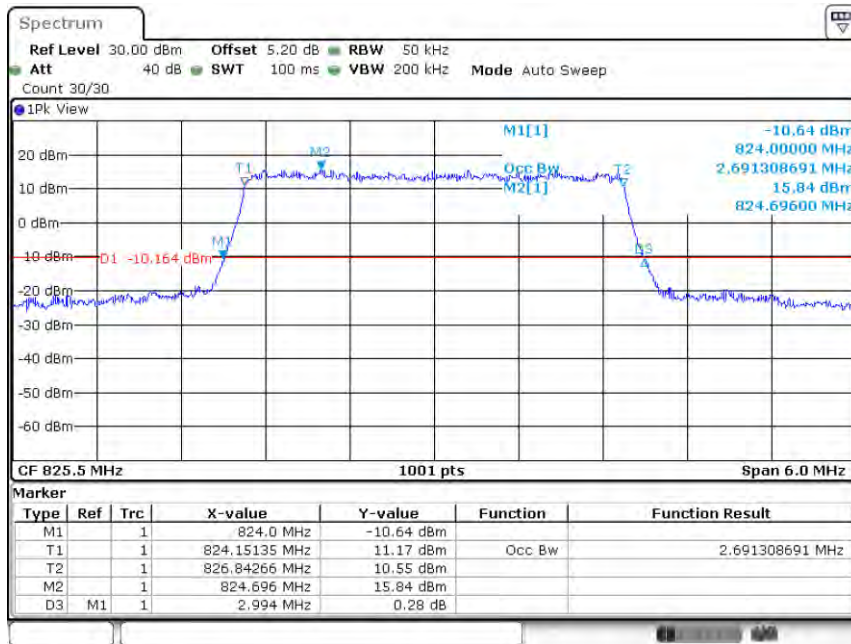
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**Band5-3MHz-QPSK-20635-15RB#0-2.697**



Date: 14 JAN 2021 17:35:03

**Band5-3MHz-64QAM-20415-15RB#0-2.691**



Date: 15 JAN 2021 12:33:54

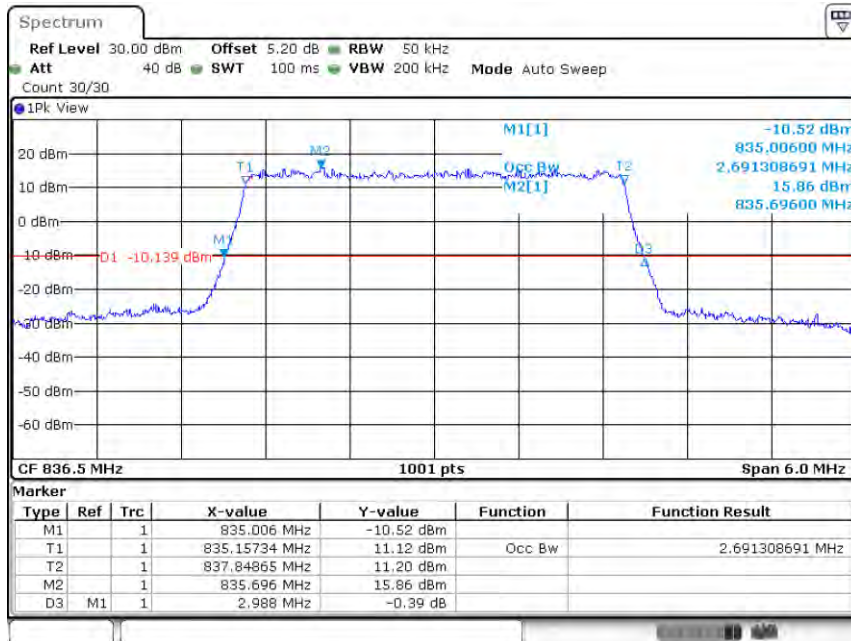


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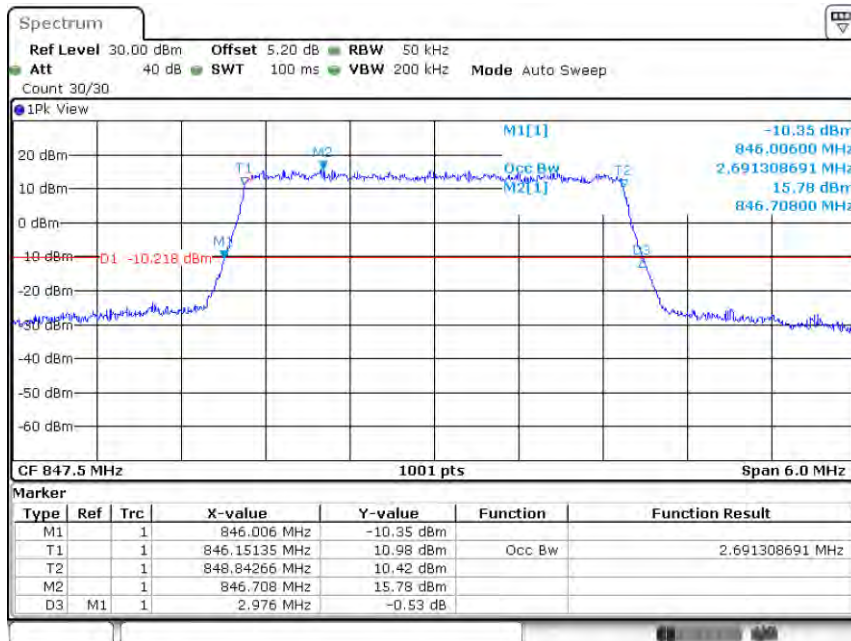


**Band5-3MHz-64QAM-20525-15RB#0-2.691**



Date: 15 JAN 2021 12:34:07

**Band5-3MHz-64QAM-20635-15RB#0-2.691**



Date: 15 JAN 2021 12:34:20

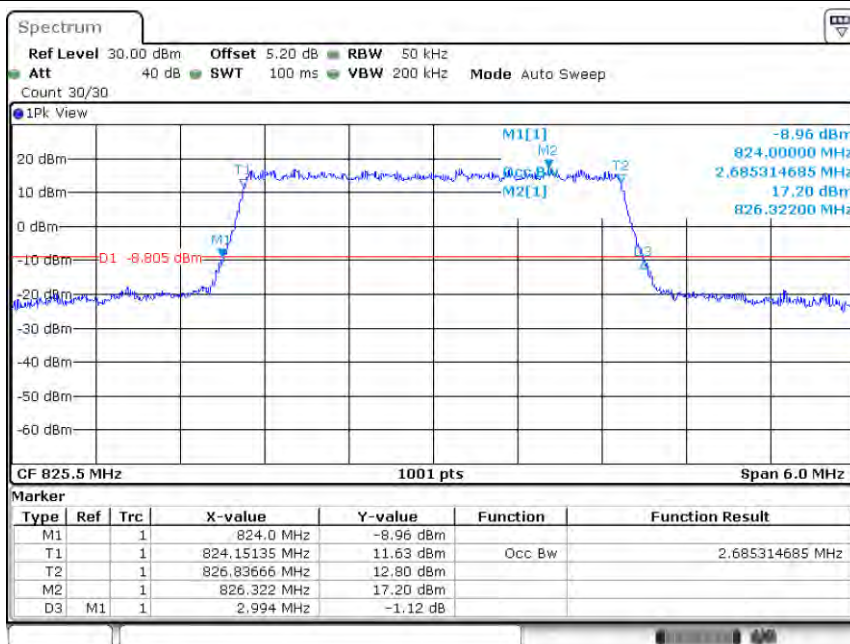


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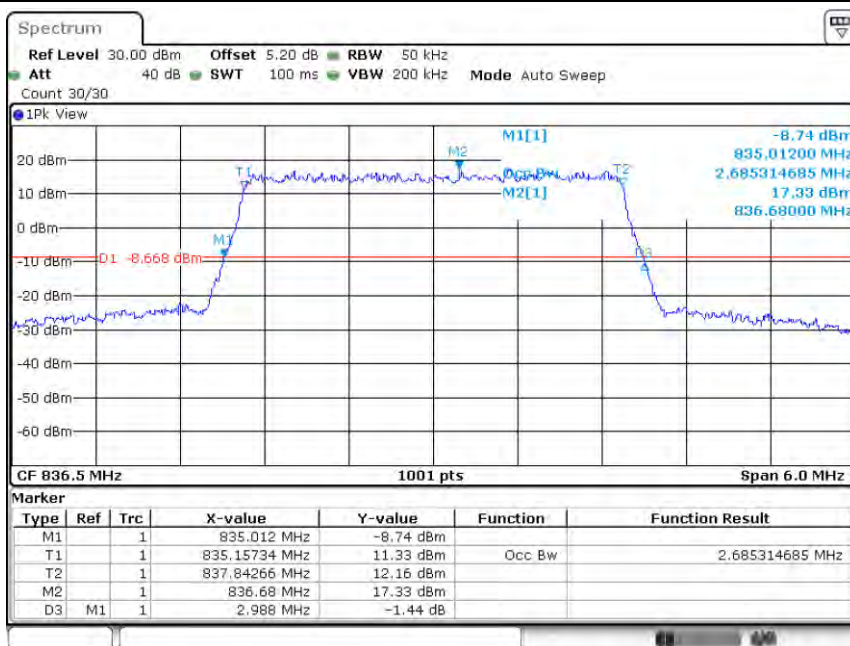


Band5-3MHz-16QAM-20415-15RB#0-2.685



Date: 14.JAN.2021 17:34:24

Band5-3MHz-16QAM-20525-15RB#0-2.685



Date: 14.JAN.2021 17:34:50



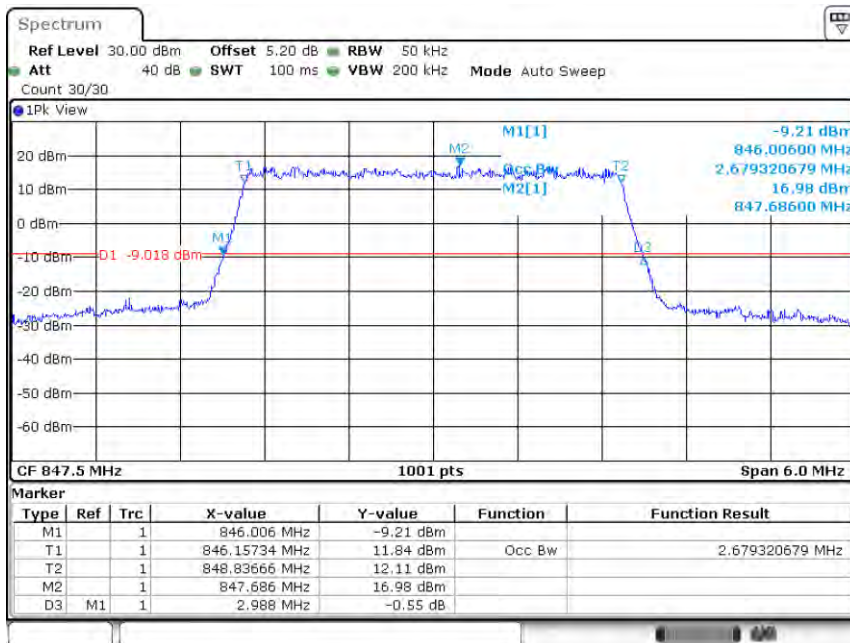
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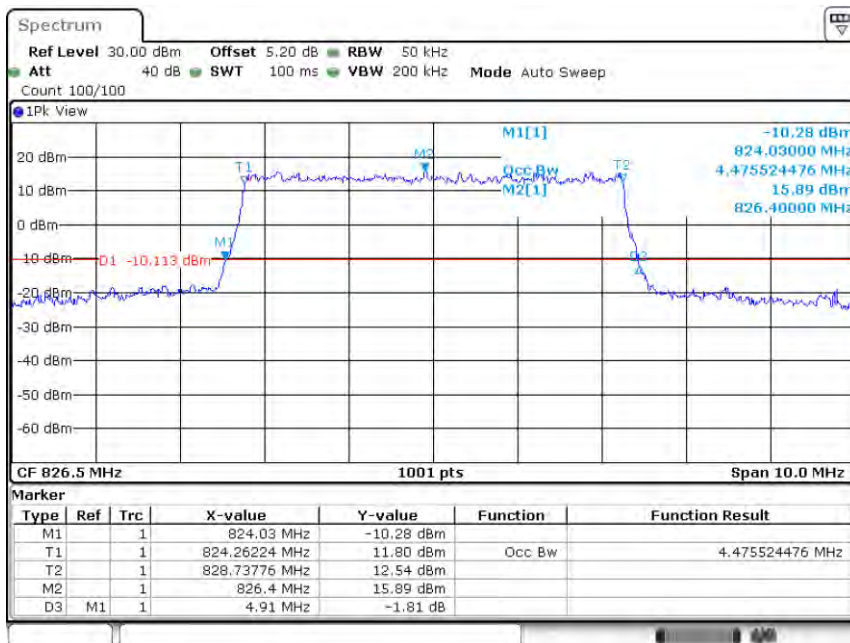


Band5-3MHz-16QAM-20635-15RB#0-2.679



Date: 14.JAN.2021 17:35:16

Band5-5MHz-QPSK-20425-25RB#0-4.476



Date: 14.JAN.2021 17:35:40

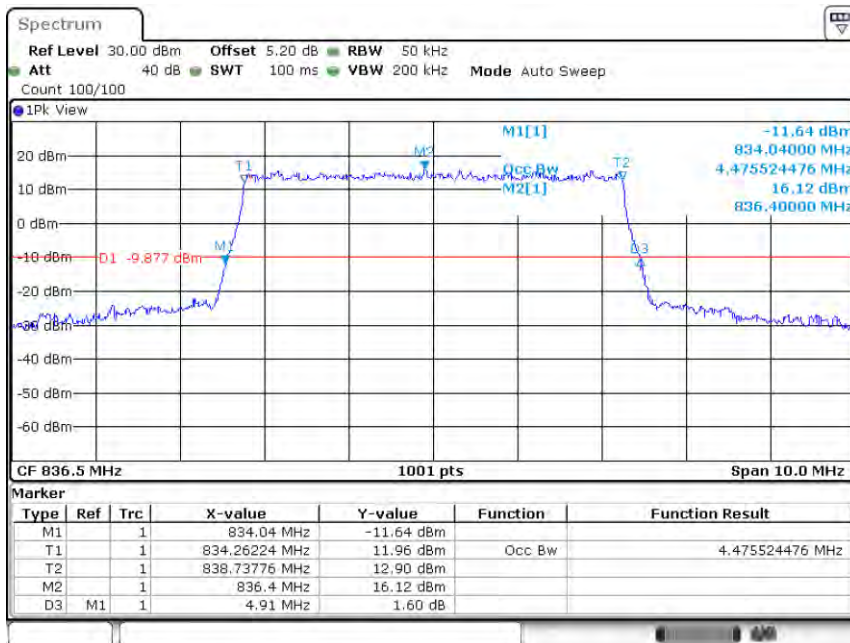


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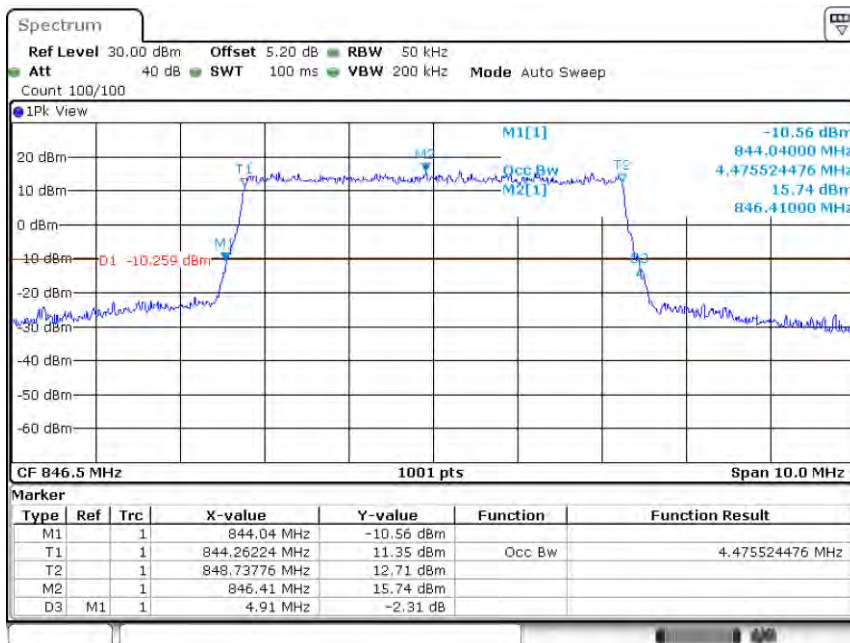


Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 14.JAN.2021 17:36:20

Band5-5MHz-QPSK-20625-25RB#0-4.476



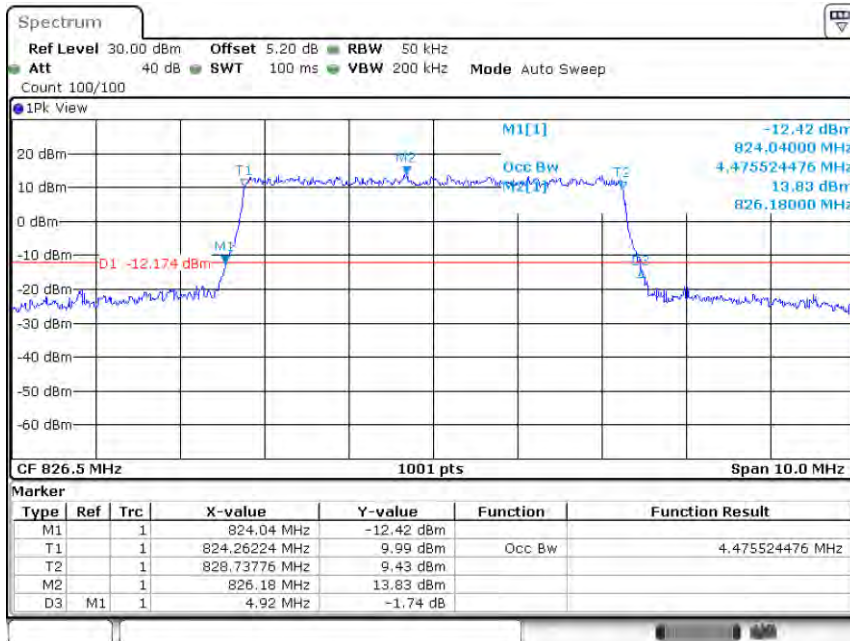
Date: 14.JAN.2021 17:36:59



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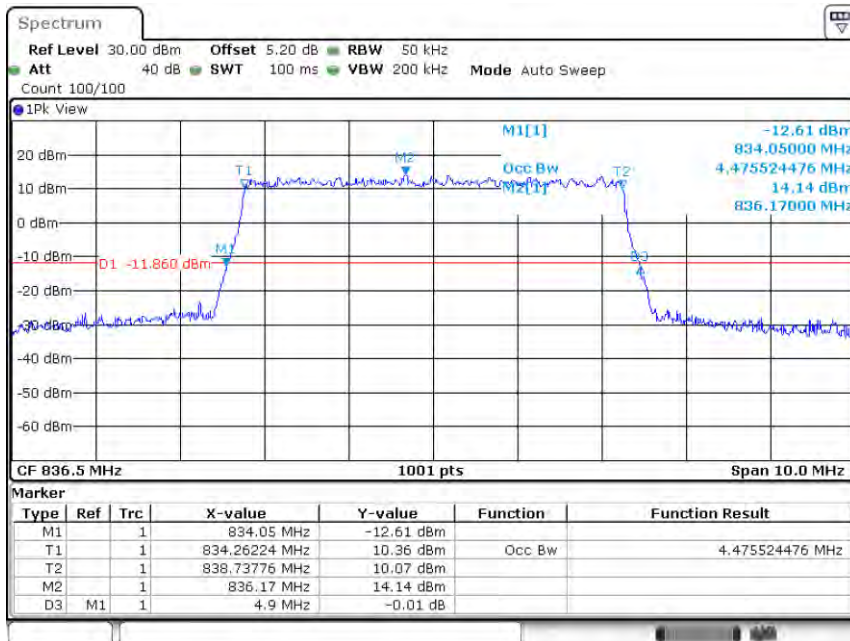


**Band5-5MHz-64QAM-20425-25RB#0-4.476**



Date: 15 JAN 2021 12:34:47

**Band5-5MHz-64QAM-20525-25RB#0-4.476**



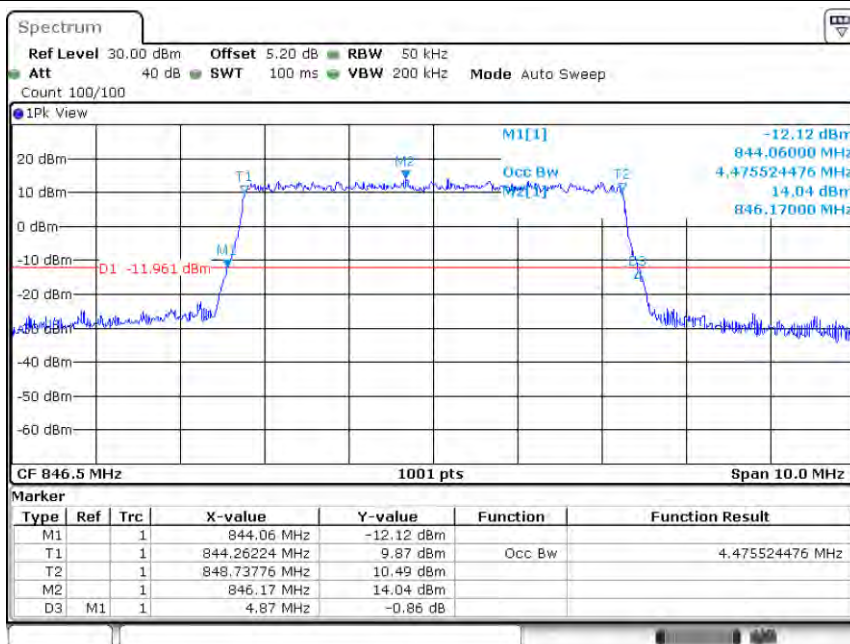
Date: 15 JAN 2021 12:35:06



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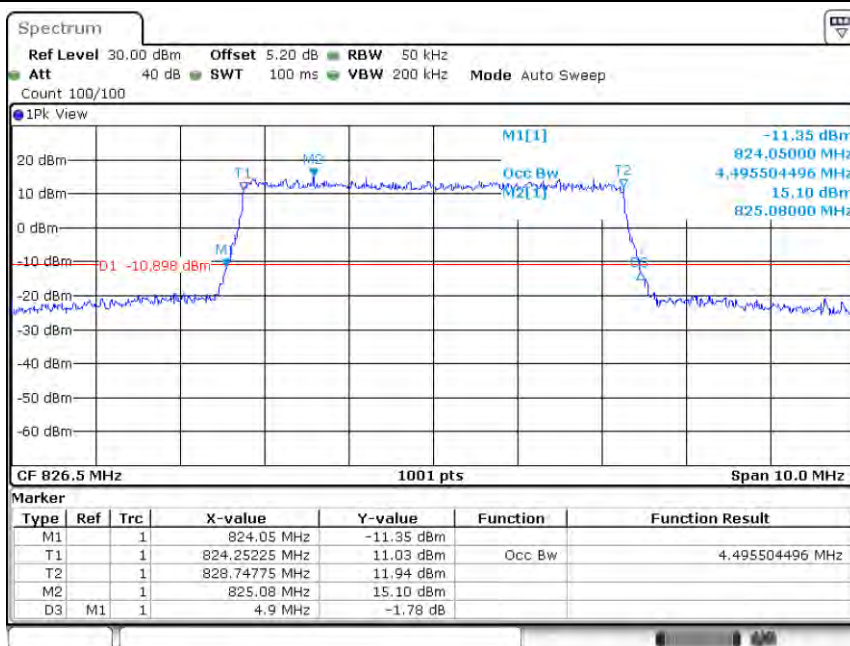


**Band5-5MHz-64QAM-20625-25RB#0-4.476**



Date: 15.JAN.2021 12:35:26

**Band5-5MHz-16QAM-20425-25RB#0-4.496**



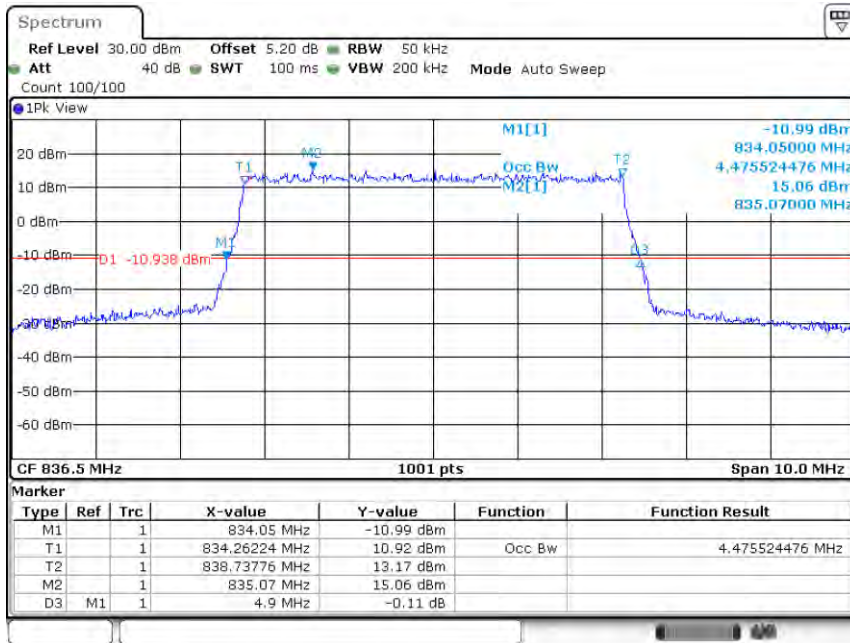
Date: 14.JAN.2021 17:36:00



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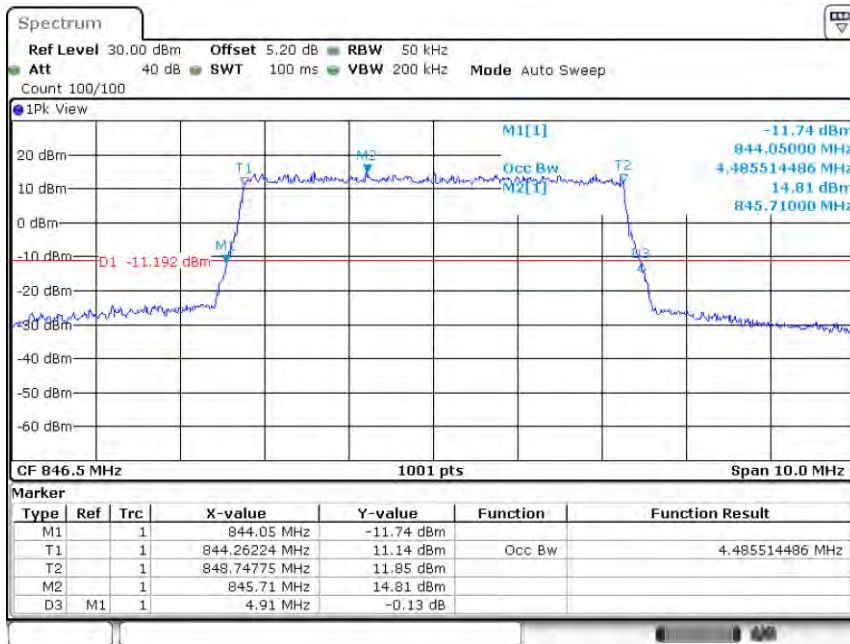


**Band5-5MHz-16QAM-20525-25RB#0-4.476**



Date: 14 JAN 2021 17:36:39

**Band5-5MHz-16QAM-20625-25RB#0-4.486**



Date: 14 JAN 2021 17:37:19

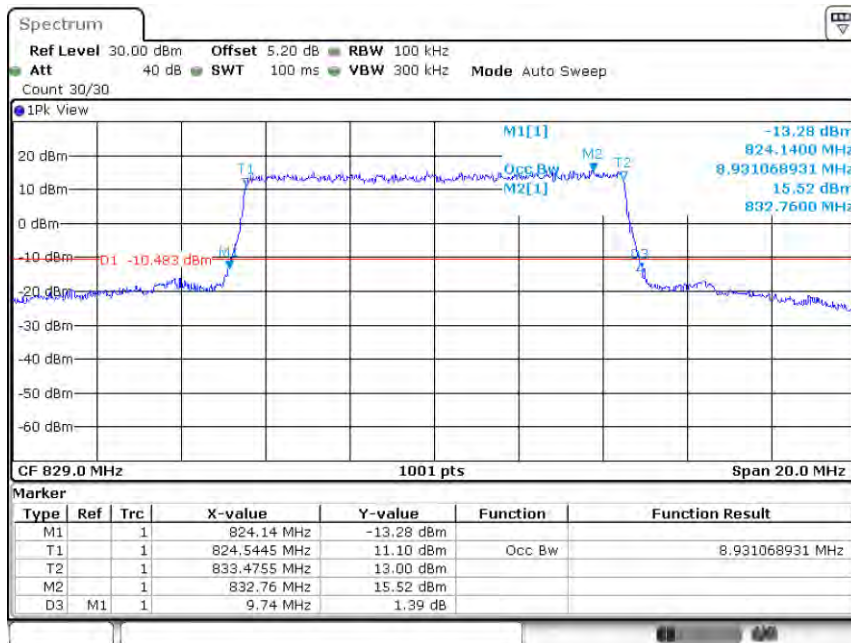


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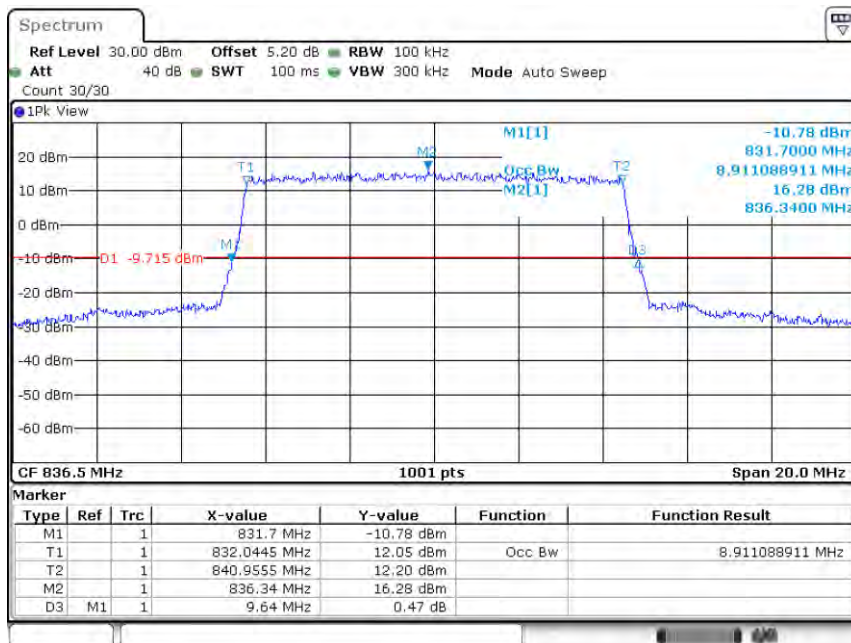


**Band5-10MHz-QPSK-20450-50RB#0-8.931**



Date: 14.JAN.2021 17:37:36

**Band5-10MHz-QPSK-20525-50RB#0-8.911**

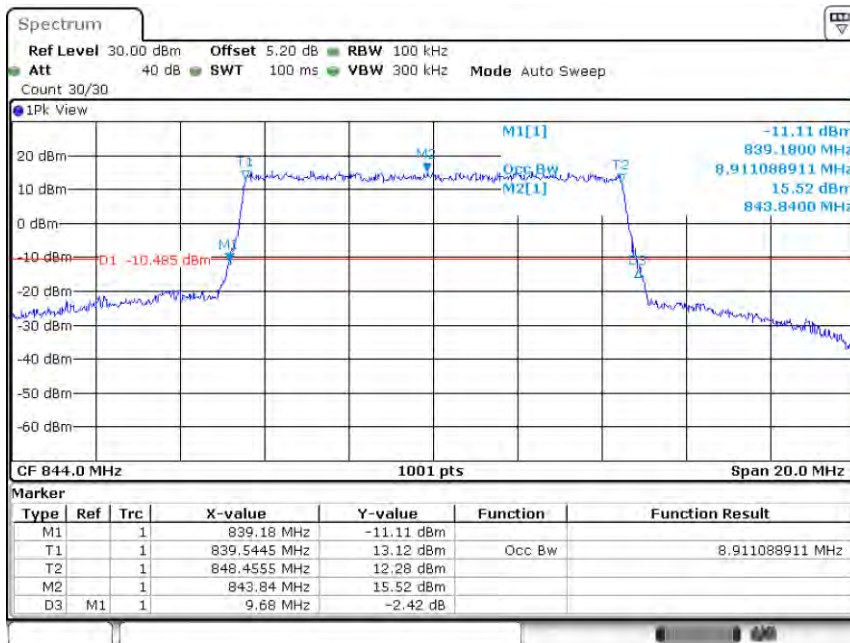


Date: 14.JAN.2021 17:38:02



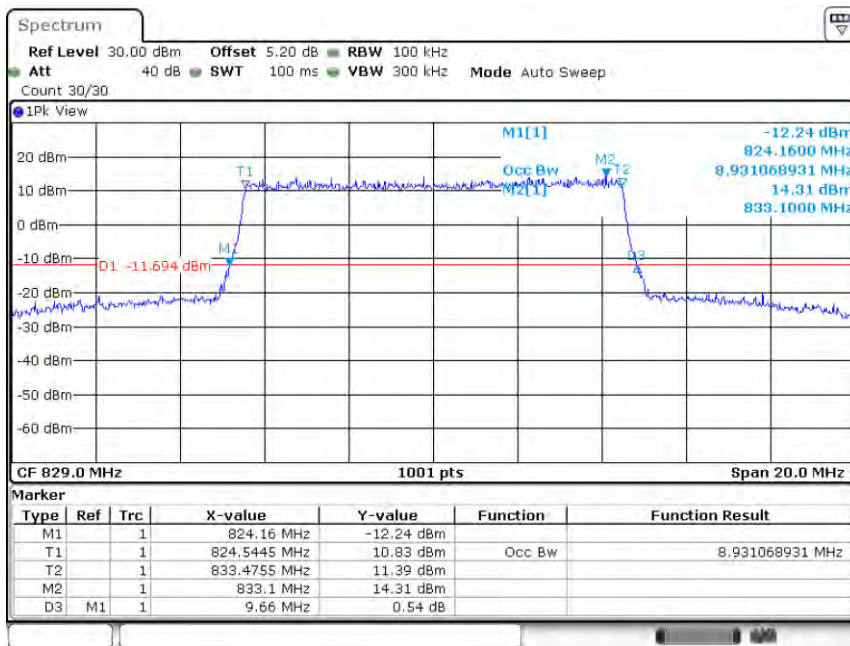
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**Band5-10MHz-QPSK-20600-50RB#0-8.911**



Date: 14 JAN 2021 17:38:27

**Band5-10MHz-64QAM-20450-50RB#0-8.931**



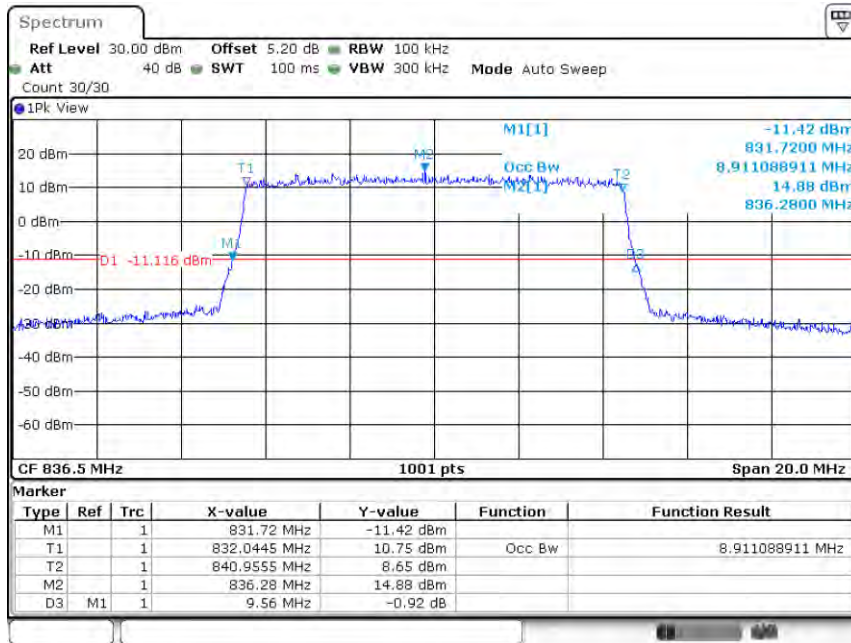
Date: 15 JAN 2021 12:35:46



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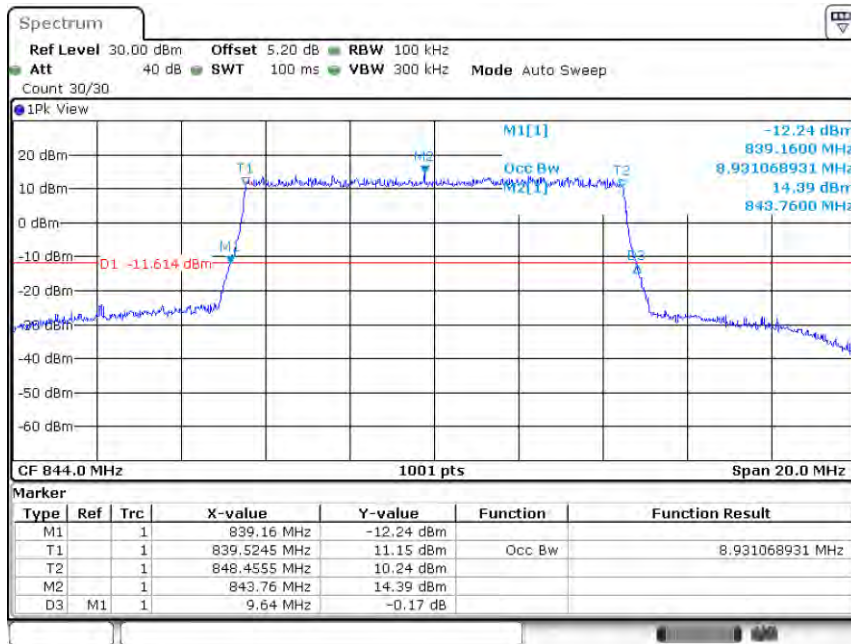


**Band5-10MHz-64QAM-20525-50RB#0-8.911**



Date: 15 JAN 2021 12:35:58

**Band5-10MHz-64QAM-20600-50RB#0-8.931**



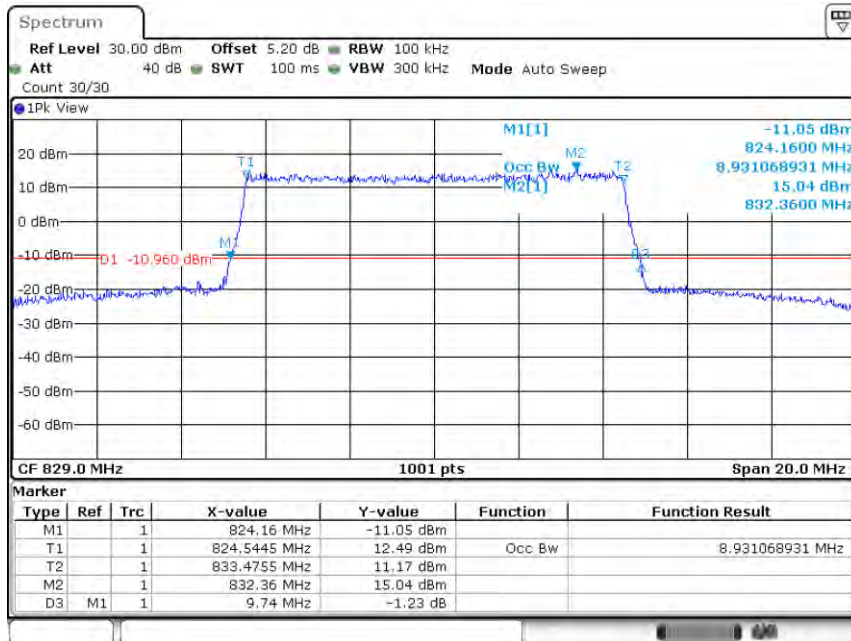
Date: 15 JAN 2021 12:36:11



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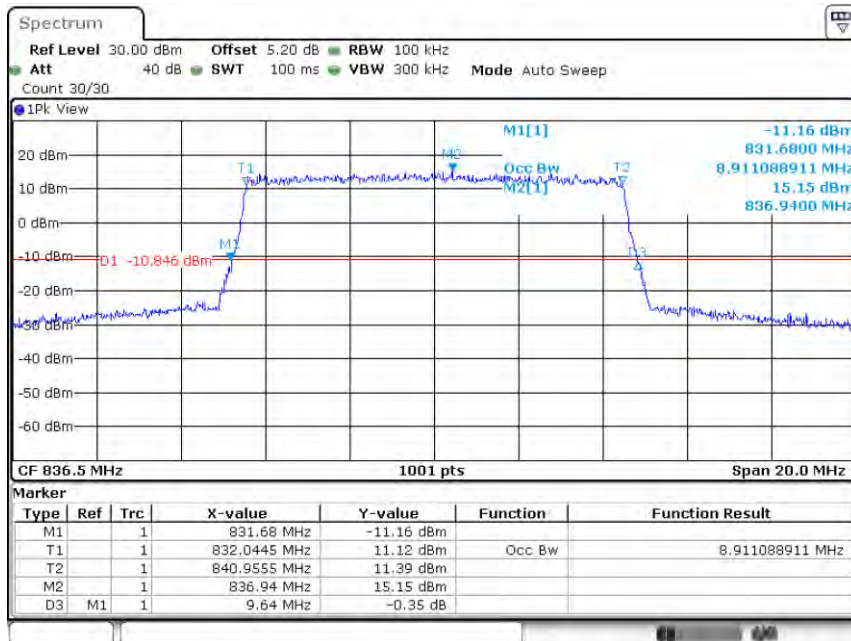


**Band5-10MHz-16QAM-20450-50RB#0-8.931**



Date: 14.JAN.2021 17:37:49

**Band5-10MHz-16QAM-20525-50RB#0-8.911**

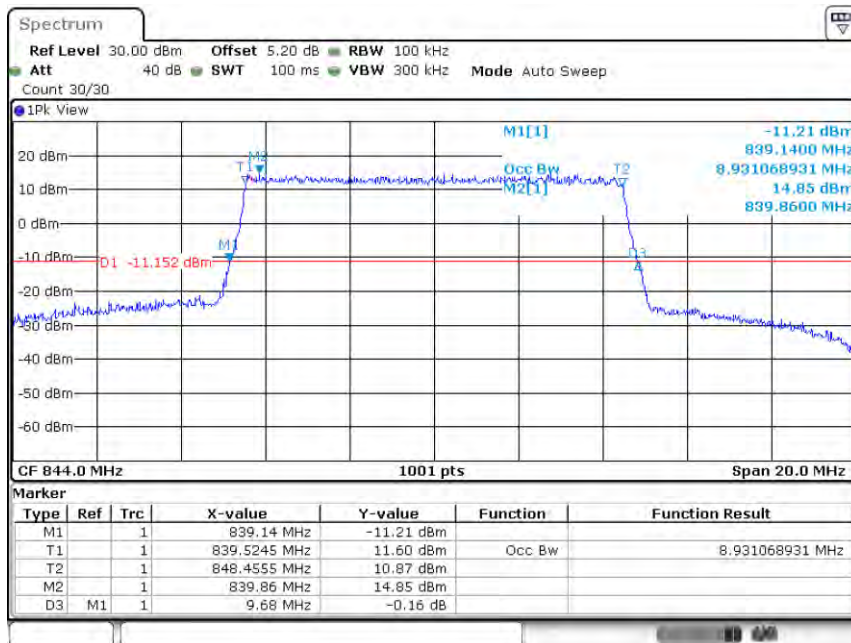


Date: 14.JAN.2021 17:38:14



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Band5-10MHz-16QAM-20600-50RB#0-8.931



Date: 14 JAN 2021 17:38:40



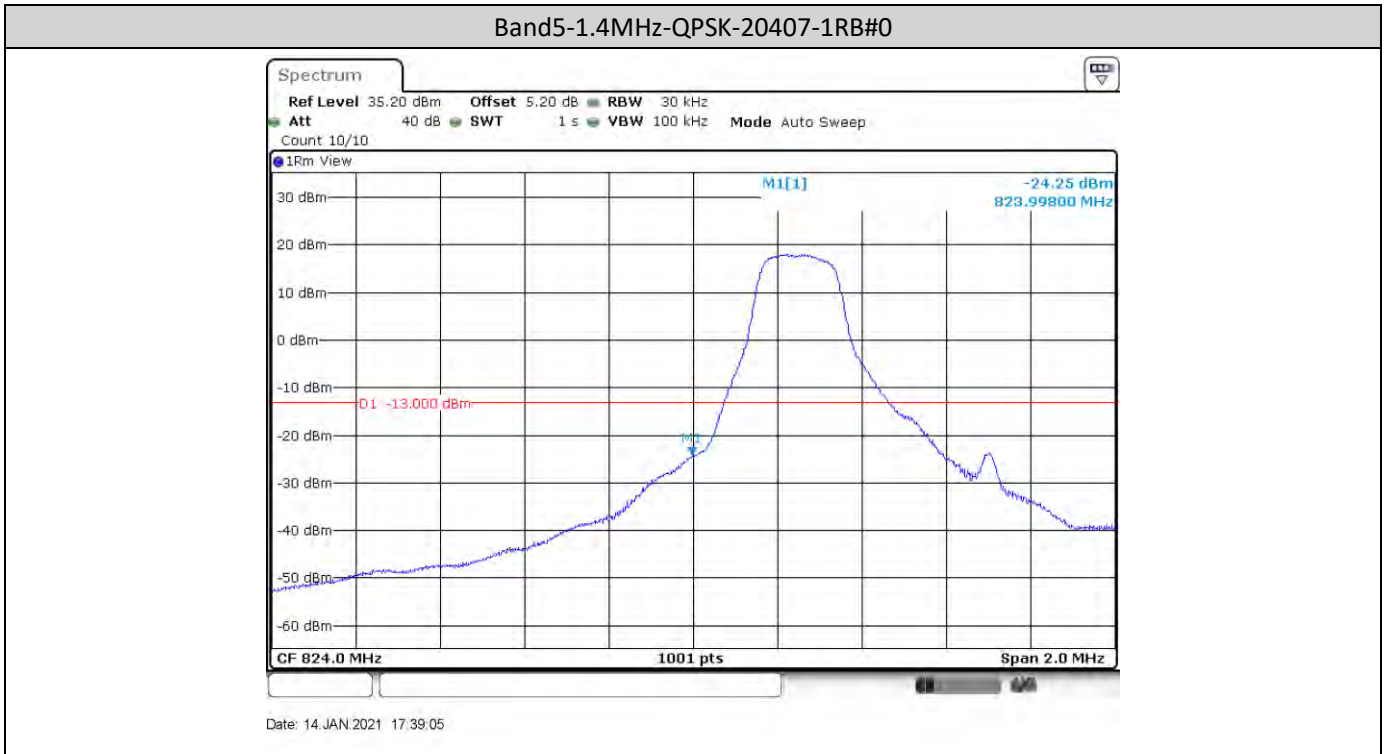
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## 5. Band Edge Compliance

### 5.1. Test Plots



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**Band5-1.4MHz-QPSK-20407-6RB#0**



Date: 14 JAN 2021 17:39:46

**Band5-1.4MHz-QPSK-20643-1RB#5**



Date: 14 JAN 2021 17:40:32



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**Band5-1.4MHz-QPSK-20643-6RB#0**



Date: 14 JAN 2021 17:41:12

**Band5-1.4MHz-64QAM-20407-1RB#0**



Date: 15 JAN 2021 12:36:39



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**Band5-1.4MHz-64QAM-20407-6RB#0**



Date: 15 JAN 2021 12:37:00

**Band5-1.4MHz-64QAM-20643-1RB#5**



Date: 15 JAN 2021 12:37:26



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**Band5-1.4MHz-64QAM-20643-6RB#0**



Date: 15.JAN.2021 12:37:47

**Band5-1.4MHz-16QAM-20407-1RB#0**



Date: 14.JAN.2021 17:39:26



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**Band5-1.4MHz-16QAM-20407-6RB#0**



Date: 14 JAN 2021 17:40:07

**Band5-1.4MHz-16QAM-20643-1RB#5**



Date: 14 JAN 2021 17:40:52



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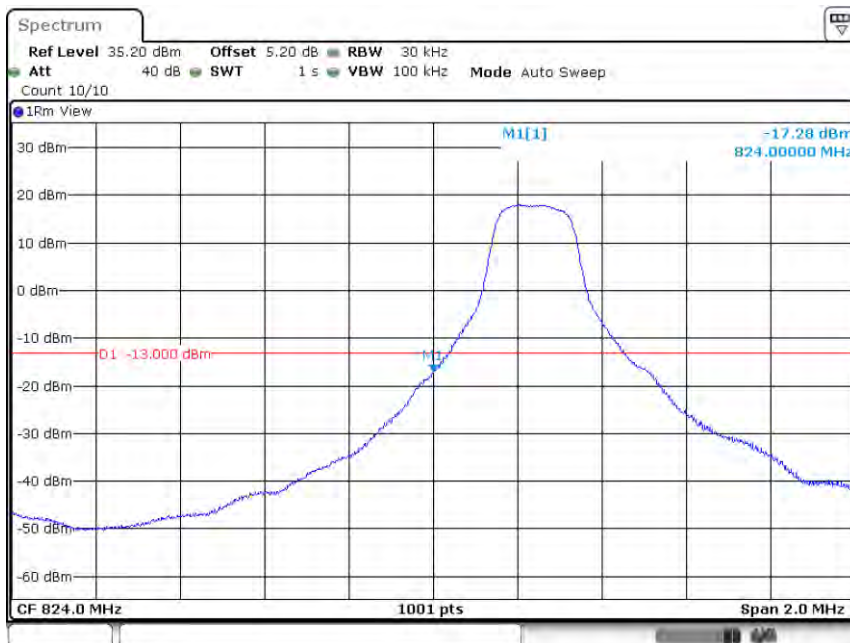


**Band5-1.4MHz-16QAM-20643-6RB#0**



Date: 14 JAN 2021 17:41:33

**Band5-3MHz-QPSK-20415-1RB#0**



Date: 14 JAN 2021 17:41:58



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**Band5-3MHz-QPSK-20415-15RB#0**



Date: 14 JAN 2021 17:42:39

**Band5-3MHz-QPSK-20635-1RB#14**



Date: 14 JAN 2021 17:43:24



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**Band5-3MHz-QPSK-20635-15RB#0**



Date: 14 JAN 2021 17:44:05

**Band5-3MHz-64QAM-20415-1RB#0**



Date: 15 JAN 2021 12:38:14



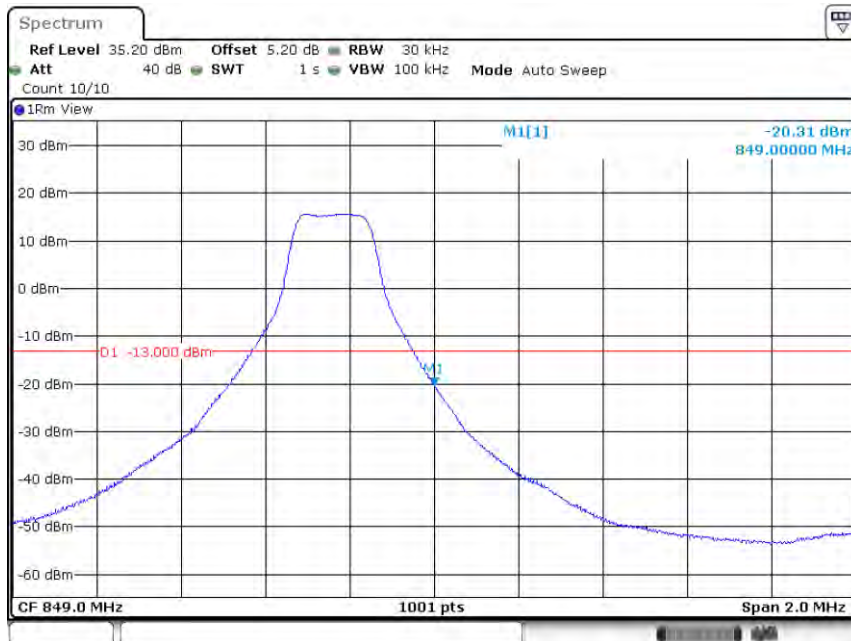
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**Band5-3MHz-64QAM-20415-15RB#0**



Date: 15 JAN 2021 12:38:35

**Band5-3MHz-64QAM-20635-1RB#14**



Date: 15 JAN 2021 12:39:00



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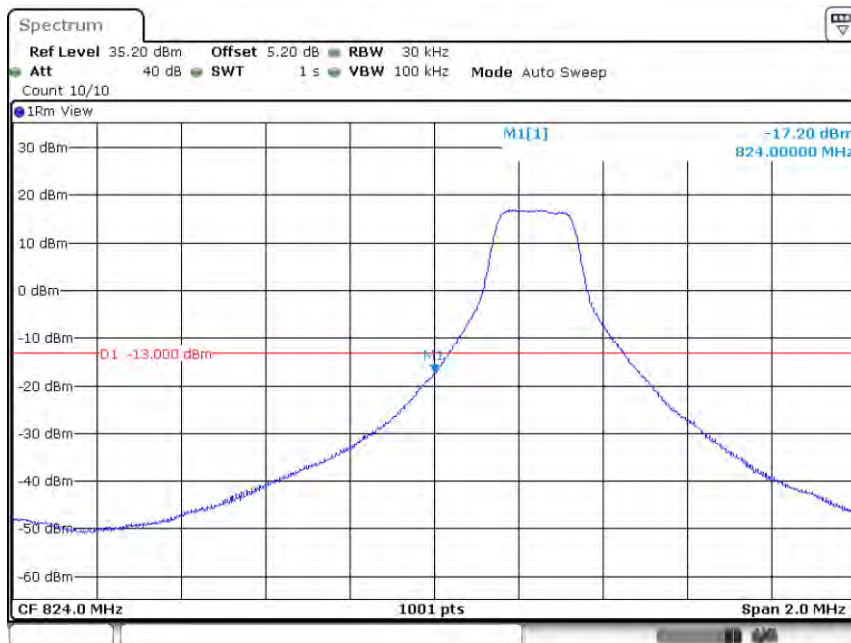


**Band5-3MHz-64QAM-20635-15RB#0**



Date: 15 JAN 2021 12:39:21

**Band5-3MHz-16QAM-20415-1RB#0**



Date: 14 JAN 2021 17:42:19



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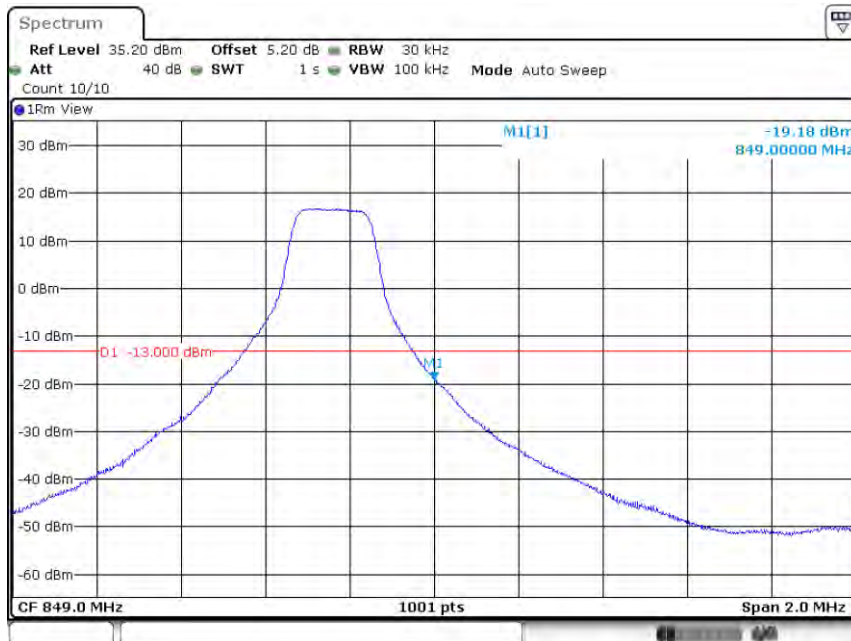


**Band5-3MHz-16QAM-20415-15RB#0**



Date: 14 JAN 2021 17:42:59

**Band5-3MHz-16QAM-20635-1RB#14**



Date: 14 JAN 2021 17:43:44



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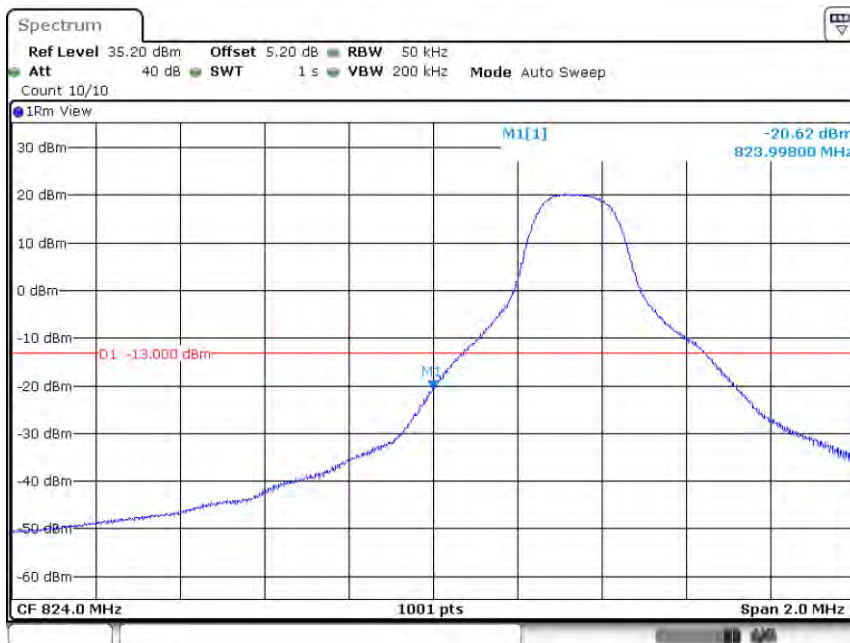


**Band5-3MHz-16QAM-20635-15RB#0**



Date: 14 JAN 2021 17:44:25

**Band5-5MHz-QPSK-20425-1RB#0**



Date: 14 JAN 2021 17:44:50

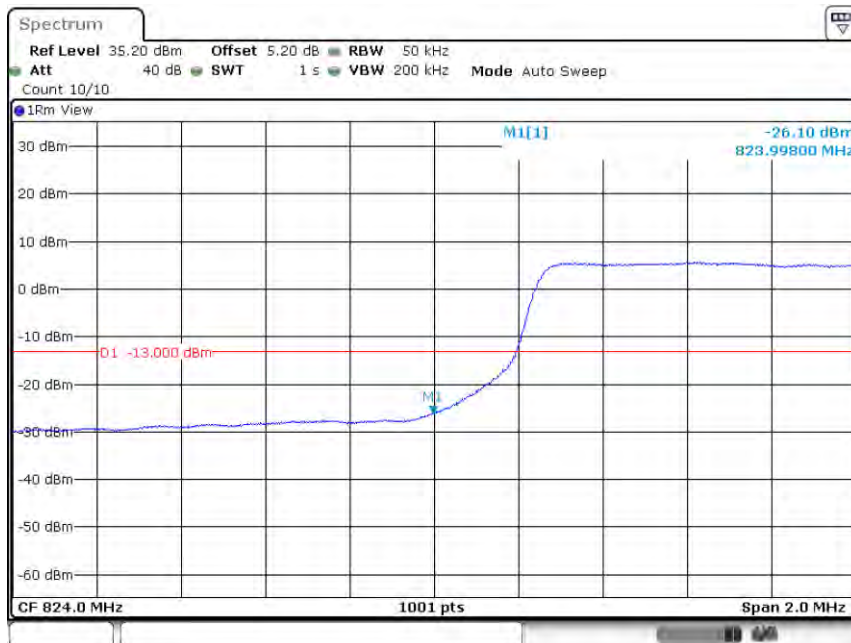


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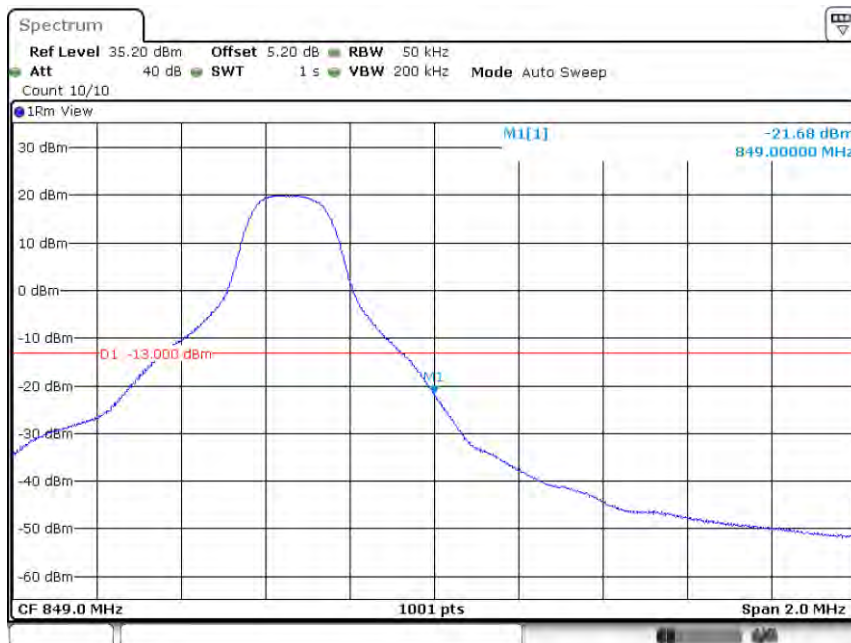
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**Band5-5MHz-QPSK-20425-25RB#0**



Date: 14 JAN 2021 17:45:31

**Band5-5MHz-QPSK-20625-1RB#24**



Date: 14 JAN 2021 17:46:16

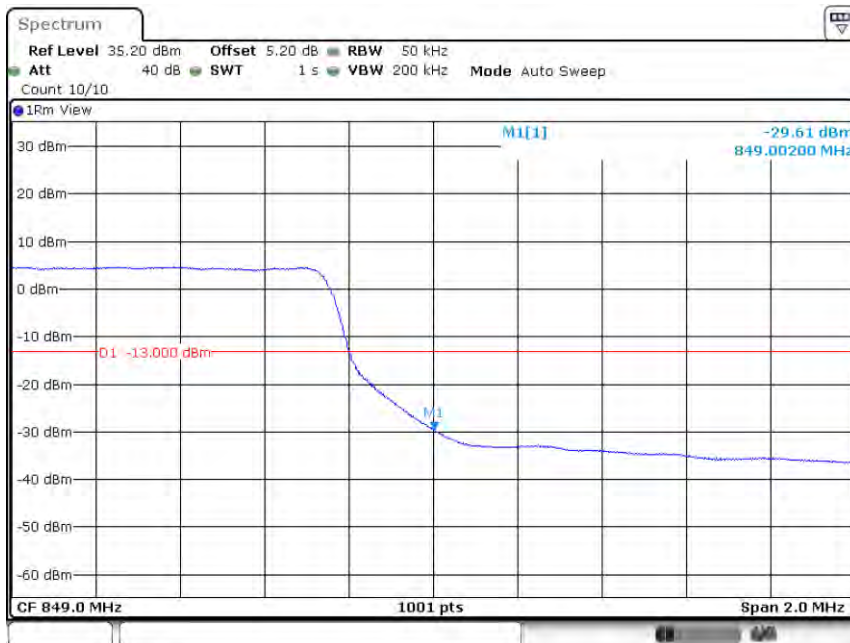


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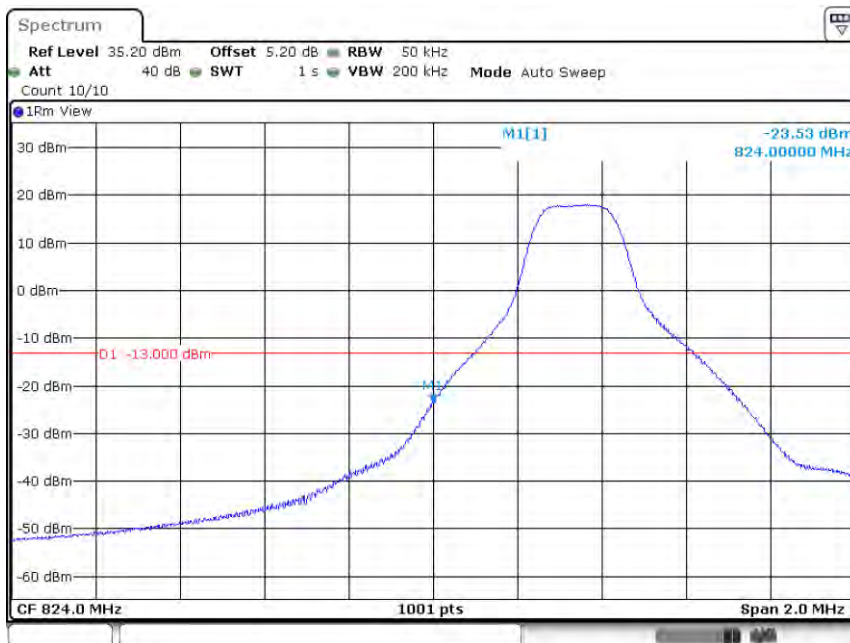


**Band5-5MHz-QPSK-20625-25RB#0**



Date: 14 JAN 2021 17:46:57

**Band5-5MHz-64QAM-20425-1RB#0**

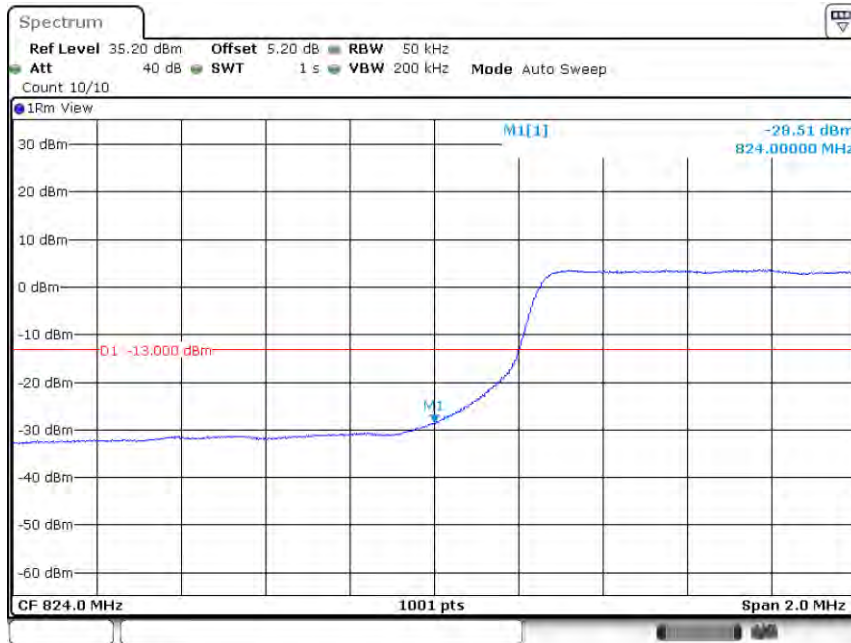


Date: 15 JAN 2021 12:39:48



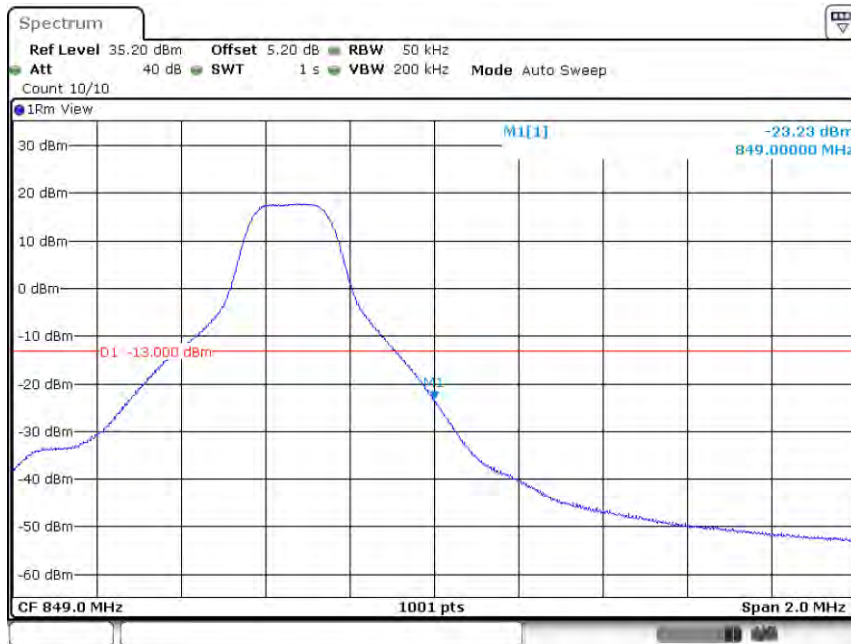
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**Band5-5MHz-64QAM-20425-25RB#0**



Date: 15 JAN 2021 12:40:09

**Band5-5MHz-64QAM-20625-1RB#24**



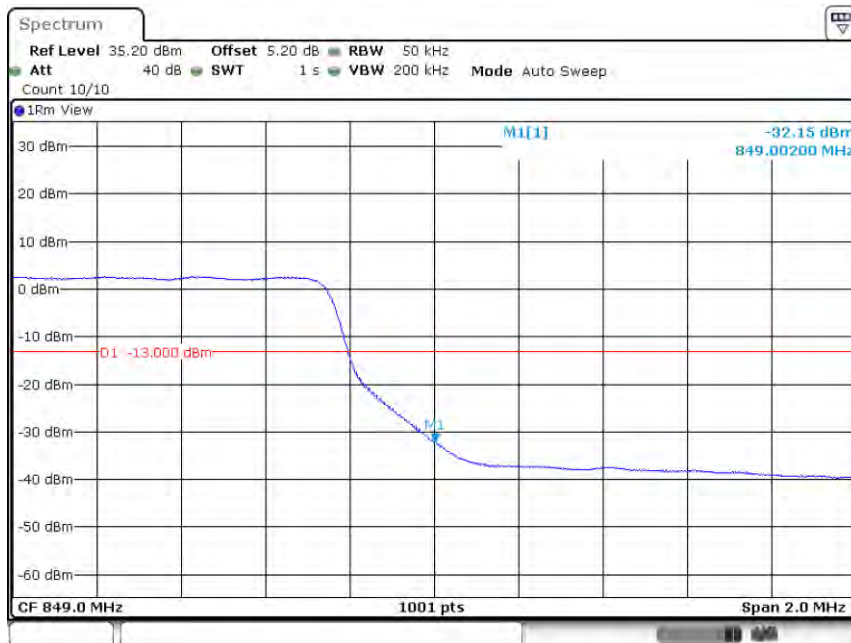
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**Band5-5MHz-64QAM-20625-25RB#0**



Date: 15 JAN 2021 12:40:55

**Band5-5MHz-16QAM-20425-1RB#0**



Date: 14 JAN 2021 17:45:11



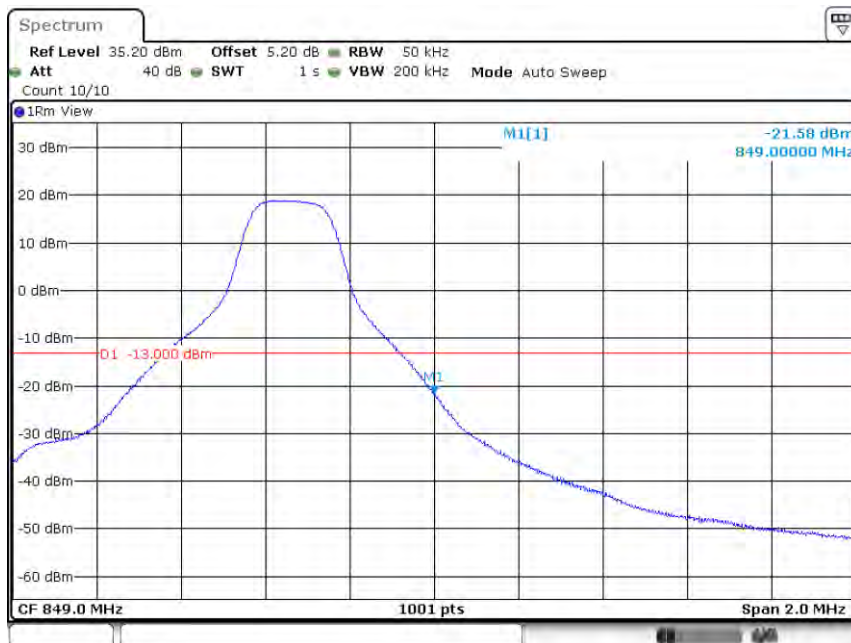
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**Band5-5MHz-16QAM-20425-25RB#0**



Date: 14 JAN 2021 17:45:51

**Band5-5MHz-16QAM-20625-1RB#24**



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**Band5-5MHz-16QAM-20625-25RB#0**



Date: 14 JAN 2021 17:47:17

**Band5-10MHz-QPSK-20450-1RB#0**



Date: 14 JAN 2021 17:47:42

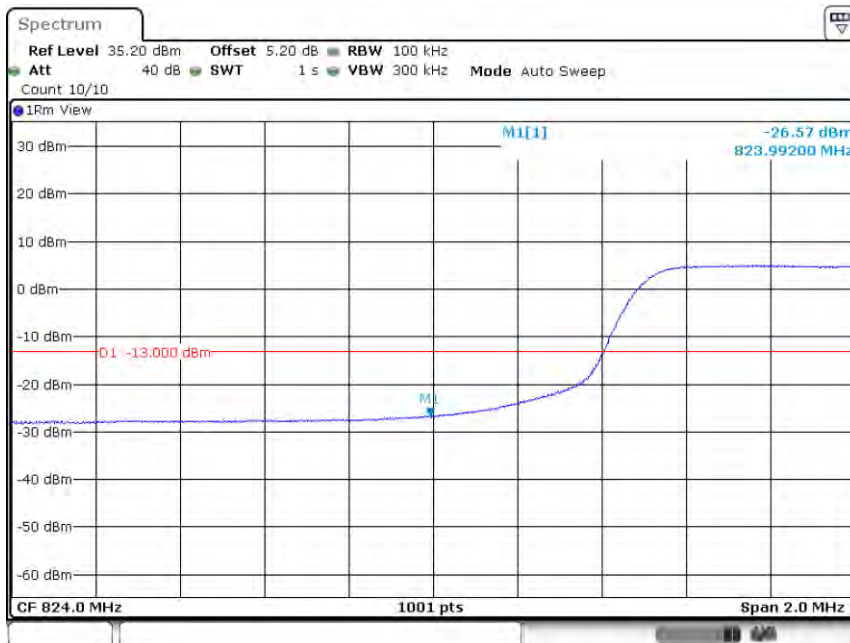


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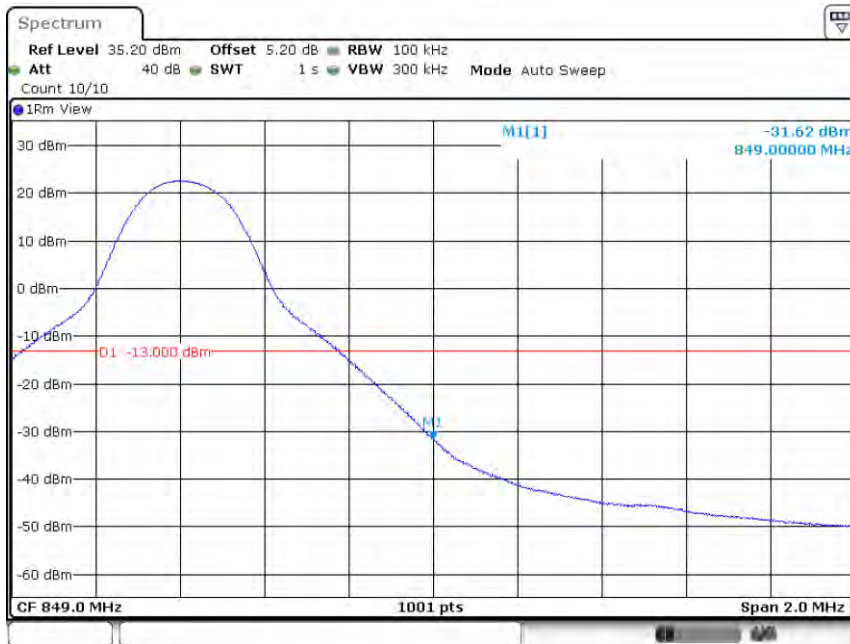


Band5-10MHz-QPSK-20450-50RB#0



Date: 14 JAN 2021 17:48:23

Band5-10MHz-QPSK-20600-1RB#49



Date: 14 JAN 2021 17:49:08



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**Band5-10MHz-QPSK-20600-50RB#0**



Date: 14 JAN 2021 17:49:49

**Band5-10MHz-64QAM-20450-1RB#0**



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**Band5-10MHz-64QAM-20450-50RB#0**



Date: 15 JAN 2021 12:41:43

**Band5-10MHz-64QAM-20600-1RB#49**



Date: 15 JAN 2021 12:42:09



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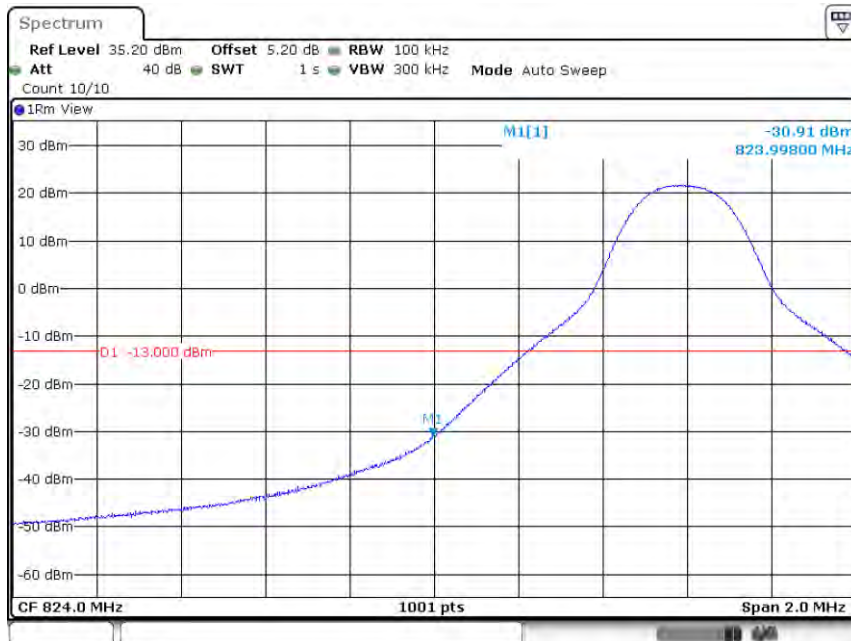


**Band5-10MHz-64QAM-20600-50RB#0**



Date: 15 JAN 2021 12:42:30

**Band5-10MHz-16QAM-20450-1RB#0**



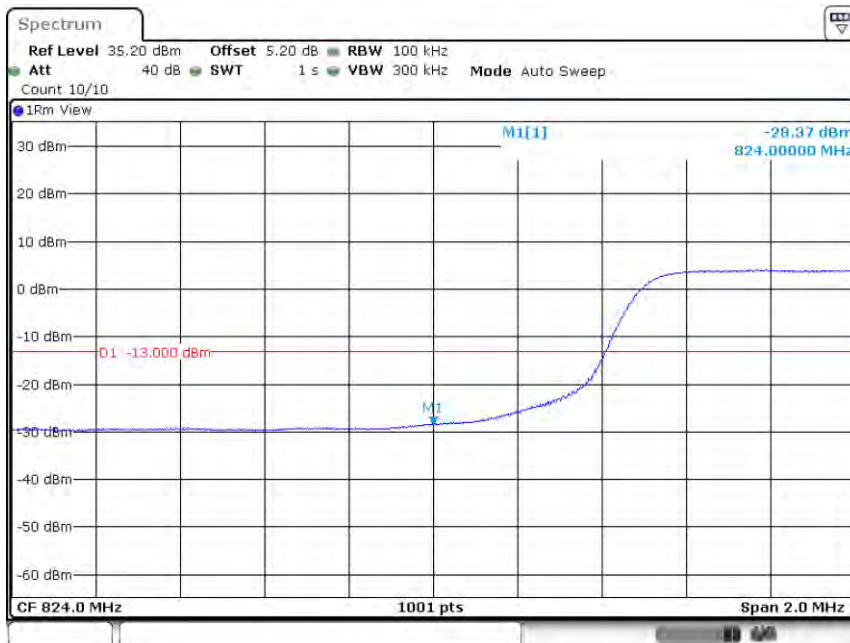
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**Band5-10MHz-16QAM-20450-50RB#0**



Date: 14 JAN 2021 17:48:43

**Band5-10MHz-16QAM-20600-1RB#49**



Date: 14 JAN 2021 17:49:28



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**Band5-10MHz-16QAM-20600-50RB#0**



Date: 14 JAN 2021 17:50:09



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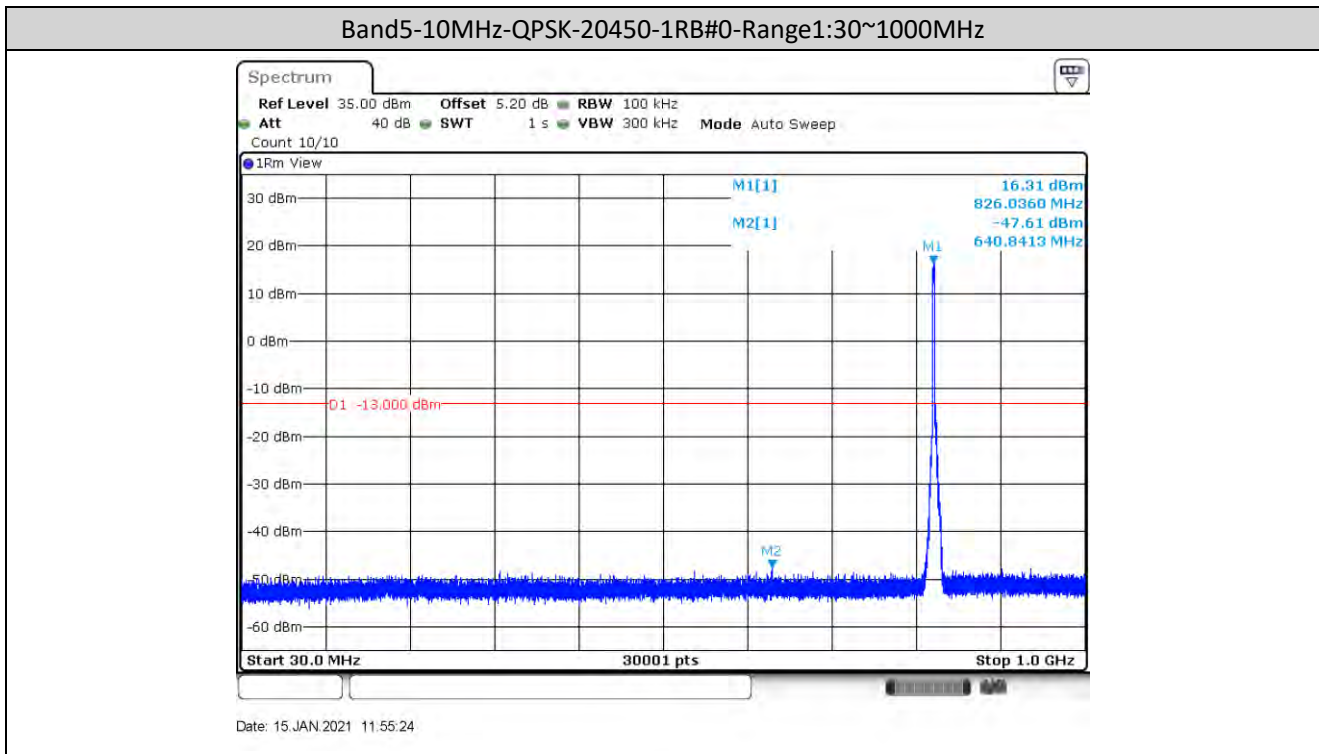


## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " 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.

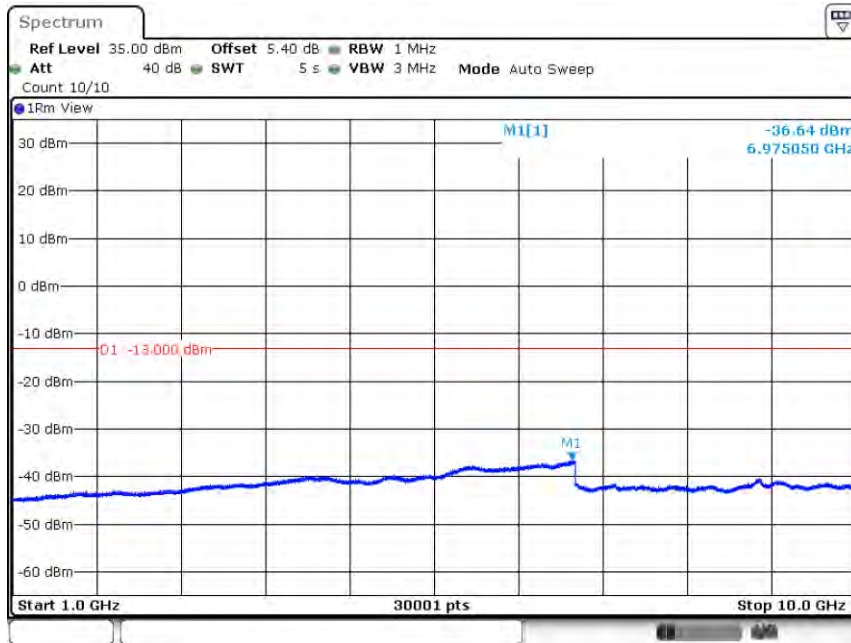
### 6.1. Test Plots



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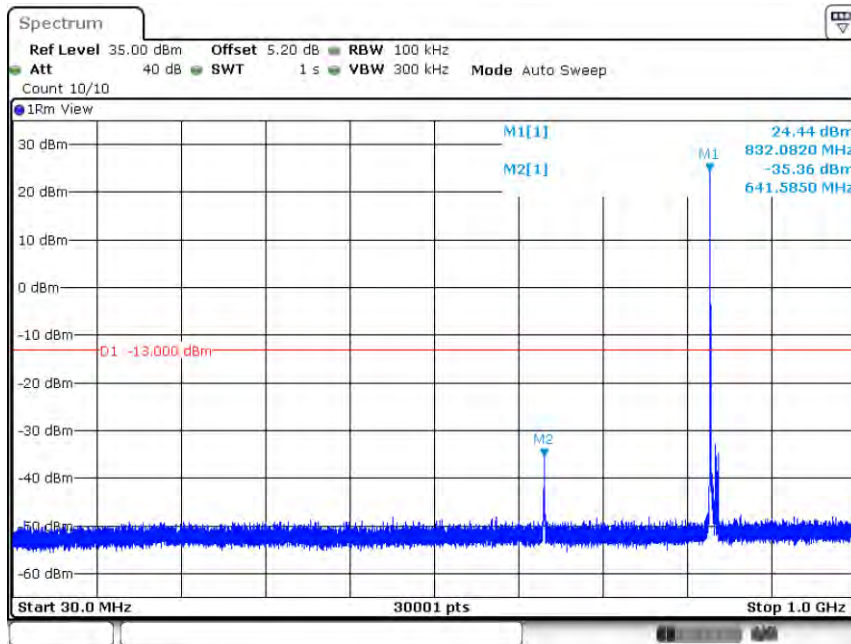
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**Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 11:56:31

**Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz**



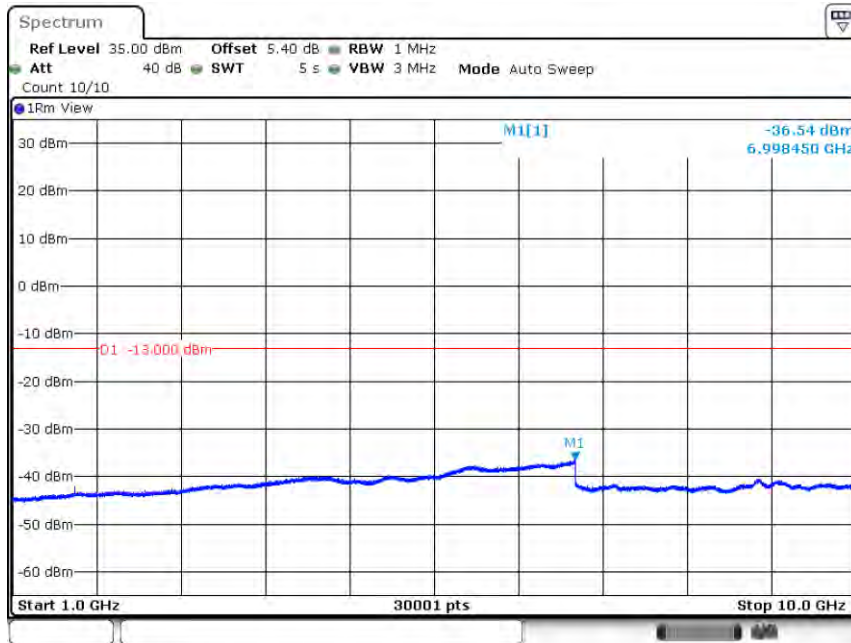
Date: 15 JAN 2021 11:58:18



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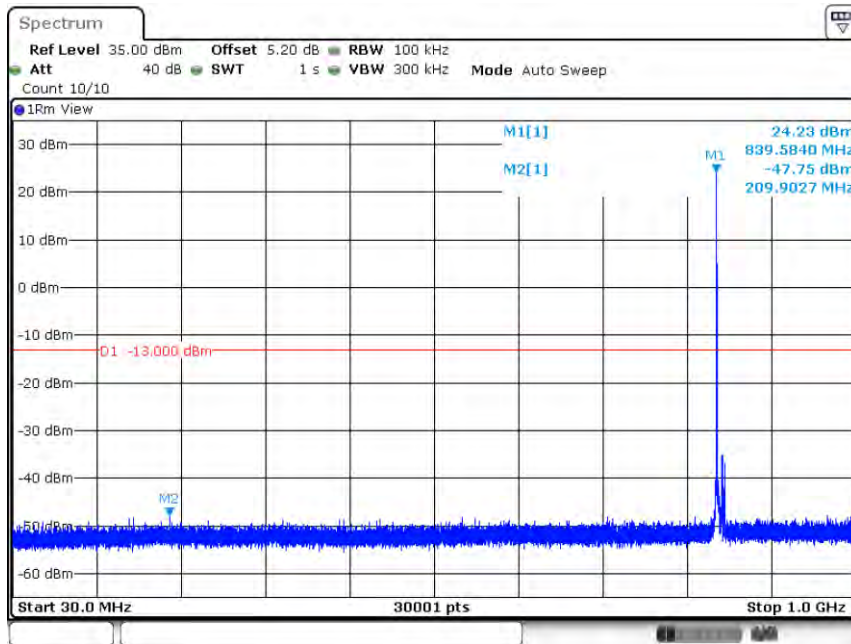
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**Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 11:59:25

**Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz**



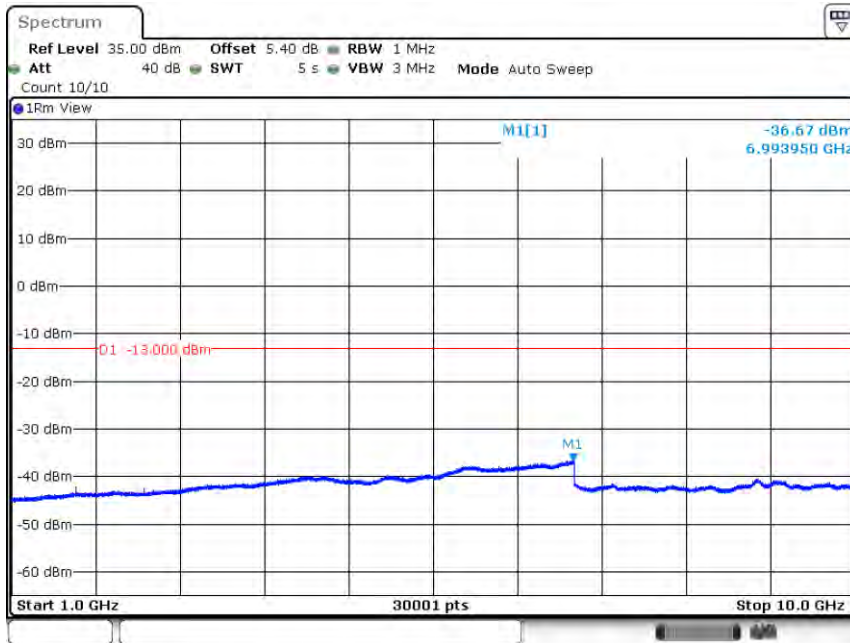
Date: 15 JAN 2021 12:01:12



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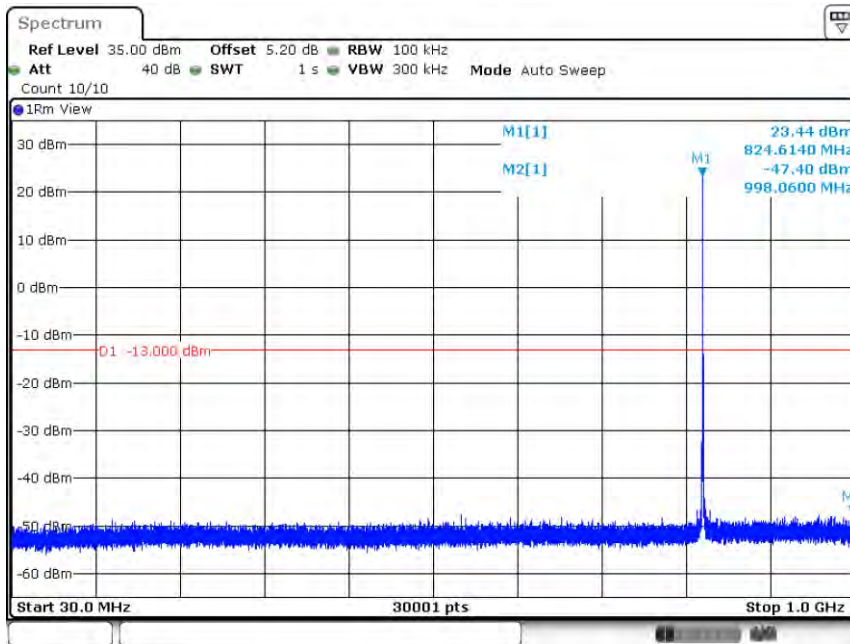


**Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:02:19

**Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz**



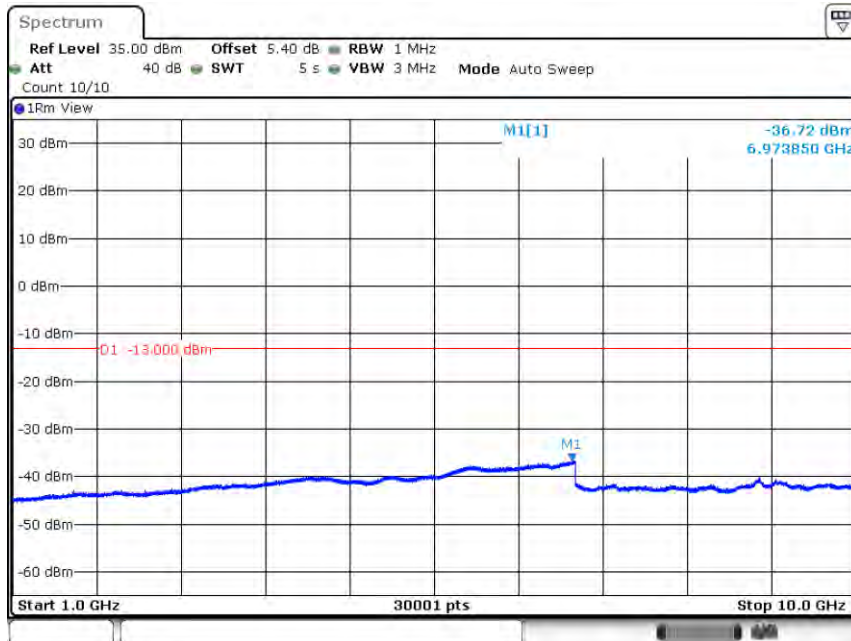
Date: 15 JAN 2021 12:42:55



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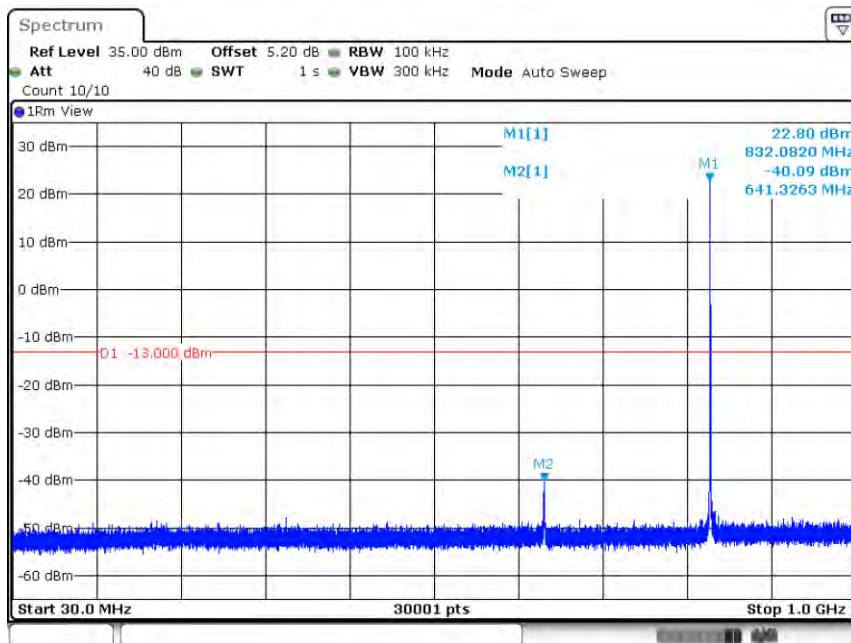
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**Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:44:02

**Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz**



Date: 15 JAN 2021 12:44:22

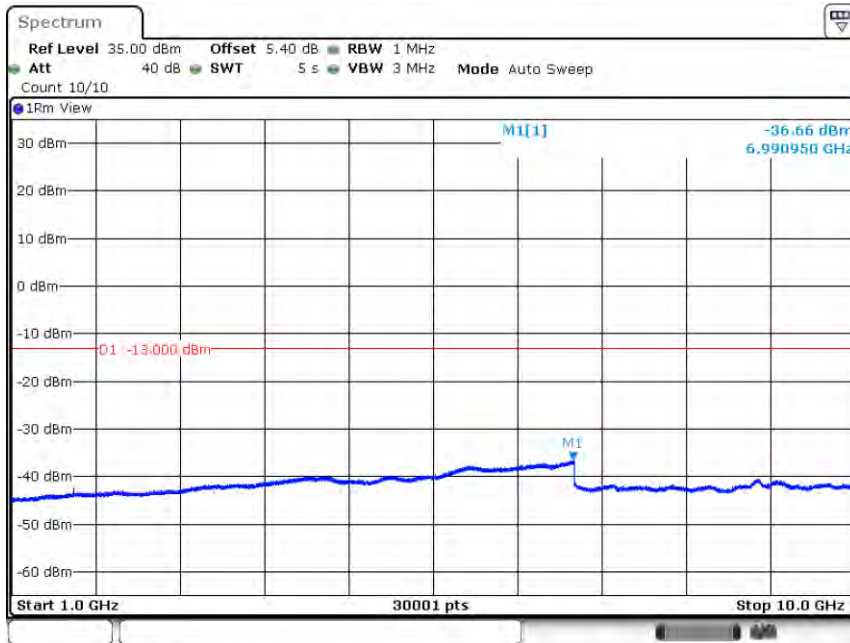


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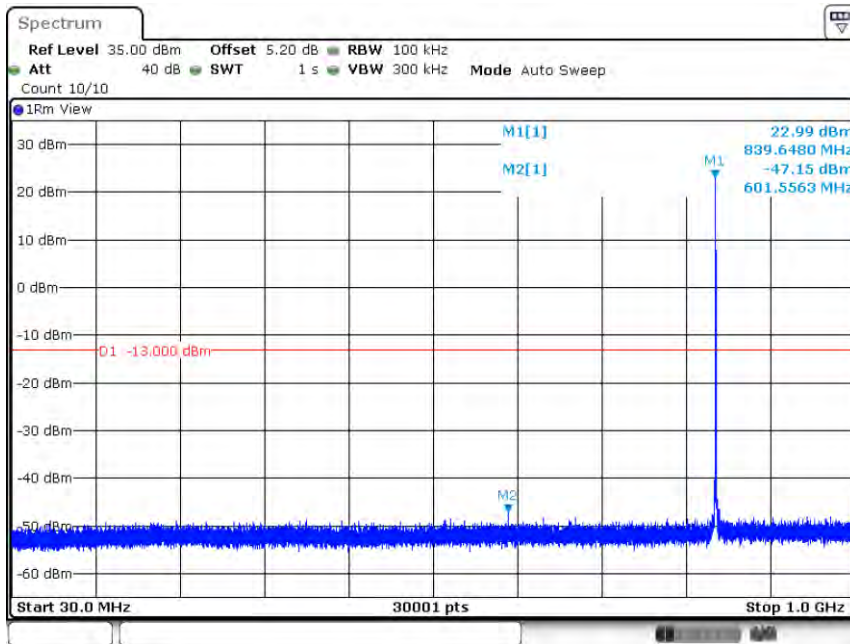


**Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:45:29

**Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz**



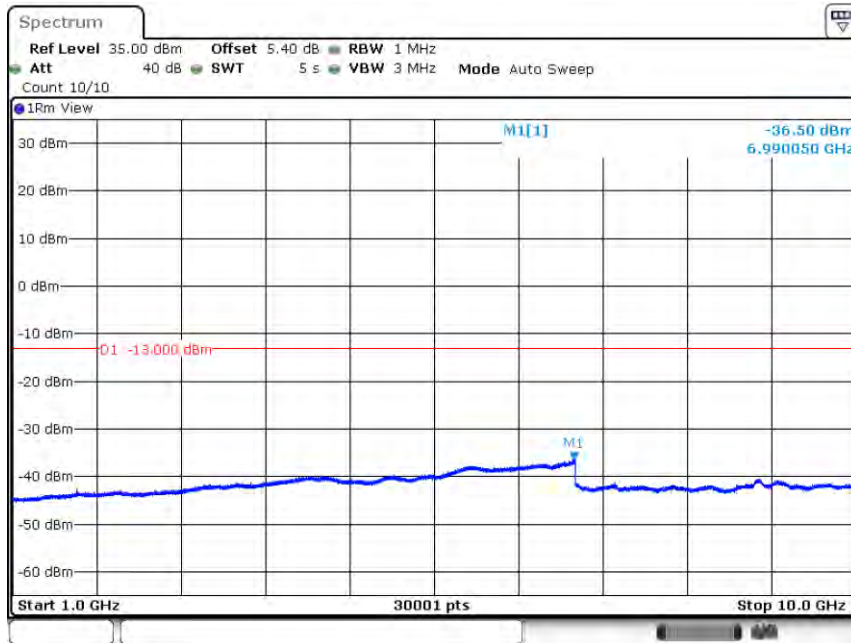
Date: 15 JAN 2021 12:45:49



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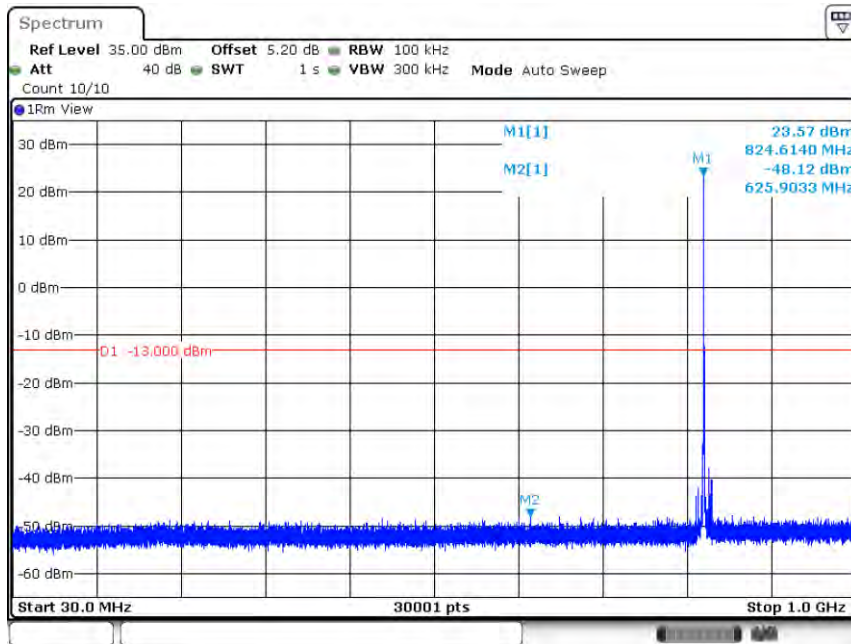


**Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:46:56

**Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz**

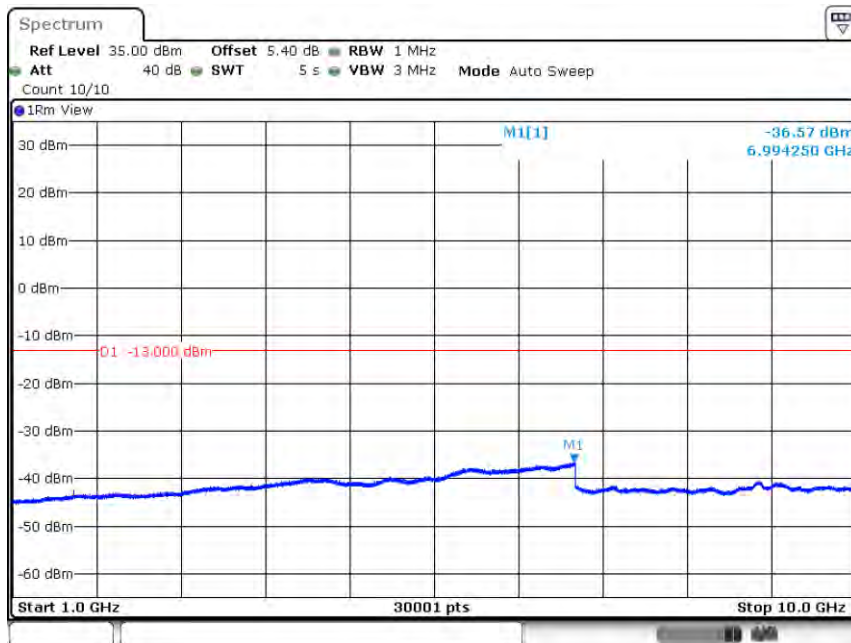


Date: 15 JAN 2021 11:56:51



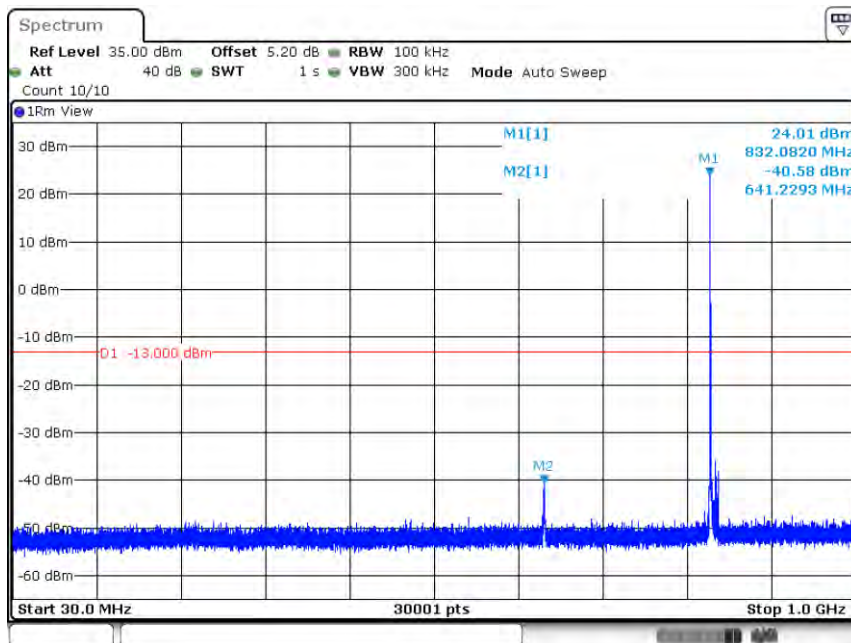
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**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 11:57:58

**Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz**



Date: 15 JAN 2021 11:59:45

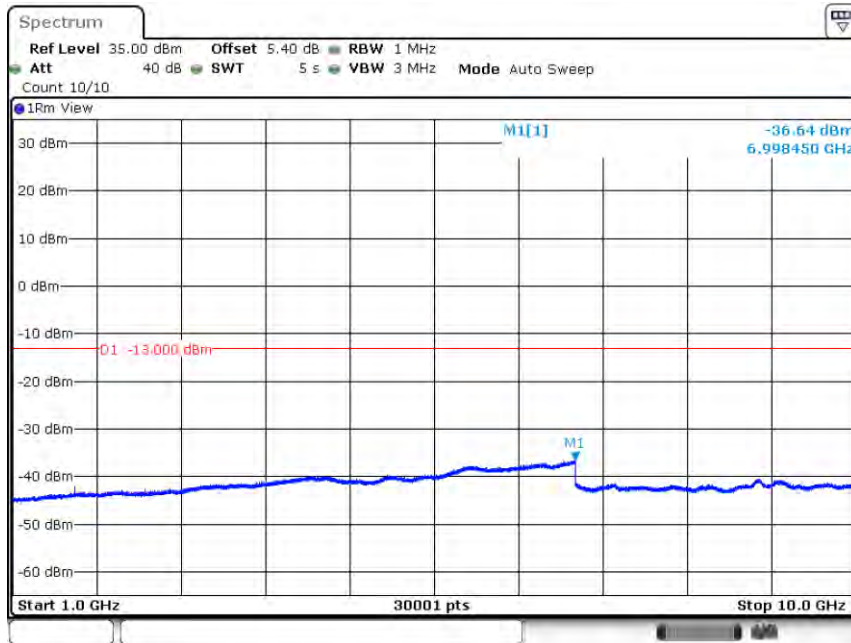


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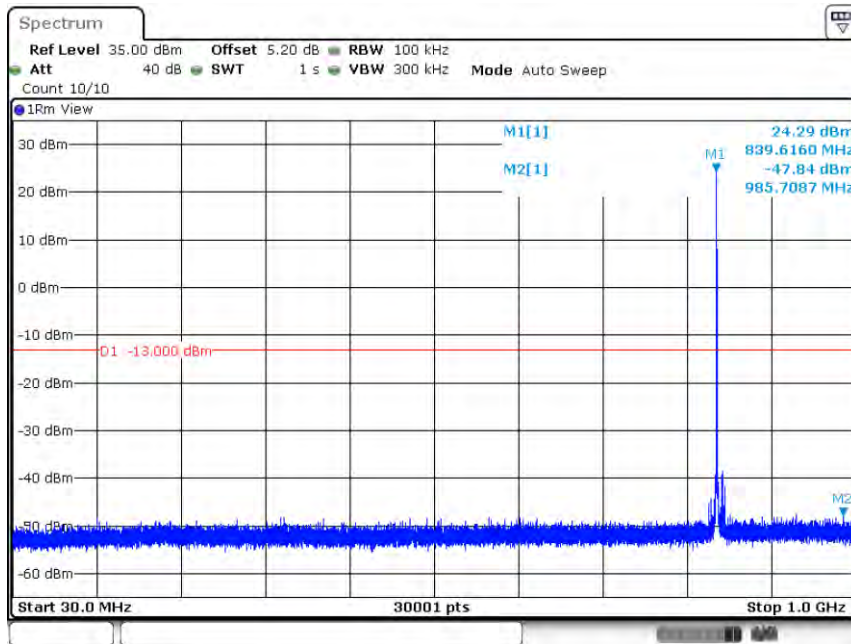


**Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:00:52

**Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz**



Date: 15 JAN 2021 12:02:39

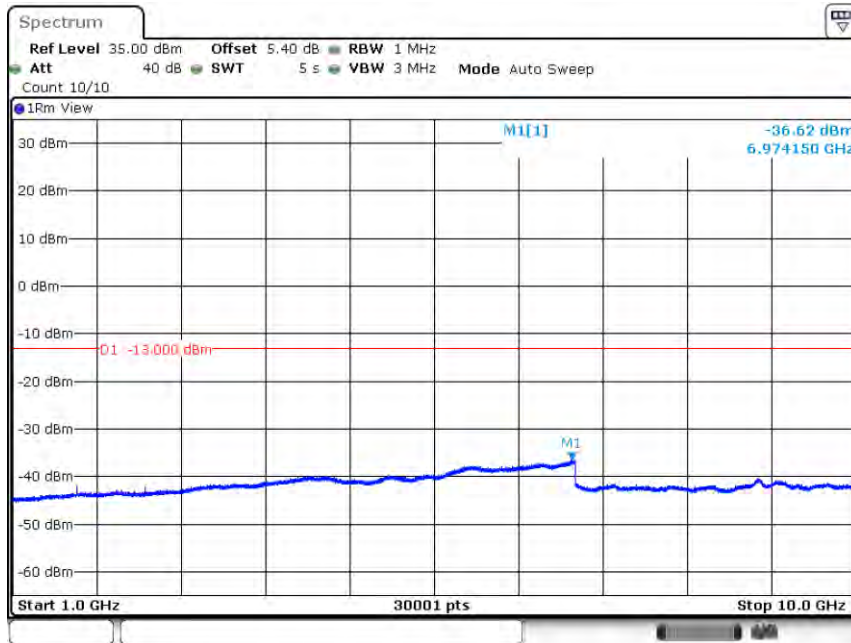


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**Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz**



Date: 15 JAN 2021 12:03:46



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE\_Band=5 BW=10MHz \_TM1

#### 7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.3075	-73.53	-64.64	-13.00	51.64	Horizontal
2	497.9622	-73.59	-66.37	-13.00	53.37	Horizontal
3	1649.0811	-63.45	-59.21	-13.00	46.21	Horizontal
4	2698.7123	-66.19	-54.62	-13.00	41.62	Horizontal
5	5298.6433	-54.61	-53.03	-13.00	40.03	Horizontal
6	9295.3098	-57.64	-50.90	-13.00	37.90	Horizontal



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**7.2. Test Band = LTE\_Band=5 BW=10MHz\_TM1**

**7.2.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.7327	-73.23	-64.49	-13.00	51.49	Vertical
2	447.7585	-73.40	-67.25	-13.00	54.25	Vertical
3	1649.0811	-63.12	-58.25	-13.00	45.25	Vertical
4	2695.7120	-66.22	-55.97	-13.00	42.97	Vertical
5	5299.5767	-53.78	-52.71	-13.00	39.71	Vertical
6	9295.0765	-57.72	-50.82	-13.00	37.82	Vertical



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**7.3. Test Band = LTE\_Band=5 BW=10MHz\_TM1**

**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2179	-72.87	-63.84	-13.00	50.84	Horizontal
2	443.2717	-73.16	-67.79	-13.00	54.79	Horizontal
3	1664.0830	-62.98	-58.85	-13.00	45.85	Horizontal
4	2700.7126	-66.29	-54.68	-13.00	41.68	Horizontal
5	5349.2783	-54.56	-53.69	-13.00	40.69	Horizontal
6	9246.3082	-57.82	-50.96	-13.00	37.96	Horizontal



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**7.4. Test Band = LTE\_Band=5 BW=10MHz\_TM1**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.7925	-73.37	-64.51	-13.00	51.51	Vertical
2	422.8991	-73.12	-67.89	-13.00	54.89	Vertical
3	1664.0830	-63.24	-58.29	-13.00	45.29	Vertical
4	2676.7096	-66.03	-55.93	-13.00	42.93	Vertical
5	5009.0670	-54.36	-55.72	-13.00	42.72	Vertical
6	9046.3349	-56.58	-51.17	-13.00	38.17	Vertical



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**7.5. Test Band = LTE\_Band=5 BW=10MHz \_TM1**

**7.5.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.1265	-73.70	-64.72	-13.00	51.72	Horizontal
2	468.9799	-73.02	-66.96	-13.00	53.96	Horizontal
3	1679.3349	-61.75	-57.52	-13.00	44.52	Horizontal
4	2707.9635	-66.33	-54.70	-13.00	41.70	Horizontal
5	5252.6751	-53.45	-52.86	-13.00	39.86	Horizontal
6	9285.2762	-57.69	-50.89	-13.00	37.89	Horizontal



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**7.6. Test Band = LTE\_Band=5 BW=10MHz\_TM1**

**7.6.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.2775	-73.27	-64.38	-13.00	51.38	Vertical
2	464.9781	-73.09	-66.62	-13.00	53.62	Vertical
3	1679.3349	-63.01	-57.76	-13.00	44.76	Vertical
4	2676.9596	-66.15	-56.05	-13.00	43.05	Vertical
5	5299.3433	-54.25	-53.18	-13.00	40.18	Vertical
6	9758.2586	-57.96	-50.08	-13.00	37.08	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	1.50	0.001777	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	2.50	0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	1.10	0.001303	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	0.60	0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	1.00	0.001185	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	-2.30	-0.002725	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-1.70	-0.002032	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	1.40	0.001674	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-2.30	-0.002750	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	0.90	0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.60	-0.000711	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
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Band5	10MHz	QPSK	20450	50RB#0	NV	-30	1.00	0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-2.30	-0.002774	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	0.60	0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	0.90	0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-3.20	-0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	1.40	0.001659	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	0.10	0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	0.20	0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	1.40	0.001689	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-10	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	0.70	0.000844	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	1.20	0.001448	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	1.70	0.002051	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	0.10	0.000121	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	0.20	0.000241	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-2.90	-0.003467	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	-1.80	-0.002152	±2.5	PASS



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Band5	10MHz	64QAM	20525	50RB#0	NV	-10	-3.00	-0.003586	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	-1.90	-0.002271	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	50	0.30	0.000359	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	-1.50	-0.001777	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-10	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	-3.10	-0.003673	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	0.20	0.000237	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-2.60	-0.003136	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.80	-0.002171	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-10	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-2.40	-0.002869	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.30	0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.90	-0.002251	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-10	-0.40	-0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-1.30	-0.001540	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	10	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.40	-0.000474	±2.5	PASS



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