

# Appendix B

## E-UTRA Band 2



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# 1 Effective (Isotropic) Radiated Power

## 1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.33	23.03	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.51	23.21	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.59	23.29	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.54	23.24	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.52	23.22	33	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.61	23.31	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.53	22.23	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.43	23.13	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.47	23.17	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.46	23.16	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.43	23.13	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.48	23.18	33	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.53	23.23	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.58	22.28	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.64	23.34	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.47	23.17	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.45	23.15	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.79	23.49	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.68	23.38	33	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.54	23.24	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.95	22.65	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.08	21.78	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.15	21.85	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.11	21.81	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.00	21.70	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.27	21.97	33	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.18	21.88	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.10	20.80	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.32	22.02	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.34	22.04	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.25	21.95	33	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.08	21.78	33	PASS

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Band2	1.4MHz	16QAM	18900	3RB#1	21.32	22.02	33	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.24	21.94	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.31	21.01	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.27	21.97	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.17	21.87	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	20.98	21.68	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.20	21.90	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.18	21.88	33	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.16	21.86	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.30	21.00	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.51	23.21	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.67	23.37	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.39	23.09	33	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.74	22.44	33	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.54	22.24	33	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.58	22.28	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.68	22.38	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.53	23.23	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.43	23.13	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.40	23.10	33	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.60	22.30	33	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.69	22.39	33	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.61	22.31	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.66	22.36	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.70	23.40	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.36	23.06	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.42	23.12	33	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.99	22.69	33	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.60	22.30	33	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.62	22.32	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.82	22.52	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.57	22.27	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.16	21.86	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.19	21.89	33	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.31	21.01	33	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.23	20.93	33	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.26	20.96	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.27	20.97	33	PASS

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Band2	3MHz	16QAM	18900	1RB#0	21.23	21.93	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.30	22.00	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.26	21.96	33	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.34	21.04	33	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.36	21.06	33	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.32	21.02	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.25	20.95	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.62	22.32	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.25	21.95	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.83	21.53	33	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.33	21.03	33	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.18	20.88	33	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.02	20.72	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.29	20.99	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.44	23.14	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.49	23.19	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.57	23.27	33	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.62	22.32	33	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.65	22.35	33	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.54	22.24	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.21	22.91	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.50	23.20	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.44	23.14	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.23	22.93	33	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.56	22.26	33	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.59	22.29	33	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.62	22.32	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.75	23.45	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.36	23.06	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.35	23.05	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.11	22.81	33	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.61	22.31	33	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.59	22.29	33	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.48	22.18	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.93	22.63	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.02	21.72	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.58	22.28	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.37	22.07	33	PASS

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Band2	5MHz	16QAM	18625	12RB#0	20.39	21.09	33	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.32	21.02	33	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.24	20.94	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.41	21.11	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.20	21.90	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.45	22.15	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.26	21.96	33	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.26	20.96	33	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.48	21.18	33	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.19	20.89	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.32	21.02	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.33	22.03	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.28	21.98	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.88	21.58	33	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.62	21.32	33	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.30	21.00	33	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.02	20.72	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.33	21.03	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.66	23.36	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.77	23.47	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.09	22.79	33	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.79	22.49	33	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.62	22.32	33	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.52	22.22	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.55	22.25	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.59	23.29	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.04	23.74	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.08	22.78	33	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.69	22.39	33	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.68	22.38	33	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.41	22.11	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.23	21.93	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.27	22.97	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.29	23.99	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.84	22.54	33	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.93	22.63	33	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.93	22.63	33	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.76	22.16	33	PASS

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Band2	10MHz	QPSK	19150	50RB#0	21.17	21.87	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.19	21.89	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.72	22.42	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.66	22.36	33	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.71	21.41	33	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.54	21.24	33	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.37	21.07	33	PASS
Band2	10MHz	16QAM	18650	27RB#0	20.58	21.28	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.16	21.86	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.73	22.43	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.86	21.56	33	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.54	21.24	33	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.59	21.29	33	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.14	20.84	33	PASS
Band2	10MHz	16QAM	18900	27RB#0	20.37	21.07	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	20.87	21.57	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.90	22.60	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.74	21.44	33	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.56	21.26	33	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.48	21.18	33	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.36	21.06	33	PASS
Band2	10MHz	16QAM	19150	27RB#0	20.46	21.16	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.45	23.15	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.66	23.36	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.33	23.03	33	PASS
Band2	15MHz	QPSK	18675	38RB#0	22.83	23.53	33	PASS
Band2	15MHz	QPSK	18675	38RB#18	22.77	23.47	33	PASS
Band2	15MHz	QPSK	18675	38RB#37	22.61	23.31	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.62	22.32	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.69	23.39	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.96	23.66	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	21.96	22.66	33	PASS
Band2	15MHz	QPSK	18900	38RB#0	22.42	23.12	33	PASS
Band2	15MHz	QPSK	18900	38RB#18	22.93	23.63	33	PASS
Band2	15MHz	QPSK	18900	38RB#37	22.86	23.56	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.46	22.16	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.56	23.26	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.47	23.17	33	PASS

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Band2	15MHz	QPSK	19125	1RB#74	21.96	22.66	33	PASS
Band2	15MHz	QPSK	19125	38RB#0	22.50	23.20	33	PASS
Band2	15MHz	QPSK	19125	38RB#18	23.01	23.71	33	PASS
Band2	15MHz	QPSK	19125	38RB#37	23.06	23.76	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.36	22.06	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.28	21.98	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.53	22.23	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.72	22.42	33	PASS
Band2	15MHz	16QAM	18675	27RB#0	20.70	21.40	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.16	21.86	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.02	22.72	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	20.76	21.46	33	PASS
Band2	15MHz	16QAM	18900	27RB#0	20.47	21.17	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.13	21.83	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.90	22.60	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	20.95	21.65	33	PASS
Band2	15MHz	16QAM	19125	27RB#0	20.36	21.06	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.51	23.21	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.89	23.59	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.27	22.97	33	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.80	22.50	33	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.73	22.43	33	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.77	22.47	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.38	23.08	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.60	23.30	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.52	24.22	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.80	22.50	33	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.95	22.65	33	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.81	22.51	33	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.48	22.18	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.79	23.49	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.54	23.24	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.32	24.02	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.26	22.96	33	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.86	22.56	33	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.14	22.84	33	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.69	22.39	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.41	23.11	33	PASS

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Band2	20MHz	16QAM	18700	1RB#0	21.19	21.89	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.65	22.35	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.47	22.17	33	PASS
Band2	20MHz	16QAM	18700	27RB#0	21.26	21.96	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.35	22.05	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.44	22.14	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.47	22.17	33	PASS
Band2	20MHz	16QAM	18900	27RB#0	20.96	21.66	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.33	22.03	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.48	22.18	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.53	22.23	33	PASS
Band2	20MHz	16QAM	19100	27RB#0	21.05	21.75	33	PASS

## Remark:

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

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

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

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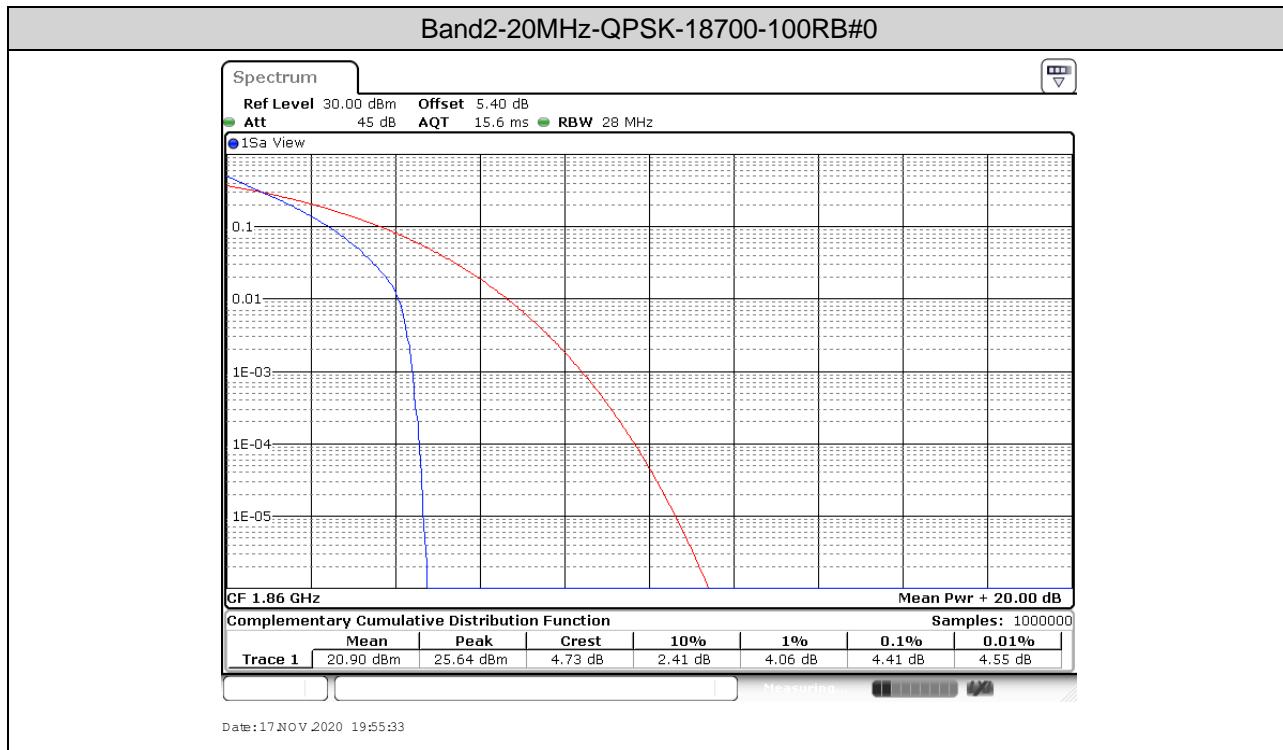
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## 2 Peak-to-Average Ratio (CCDF)

### 2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.41	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.67	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.67	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.28	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.54	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.57	13	PASS

### 2.2 Test Plots



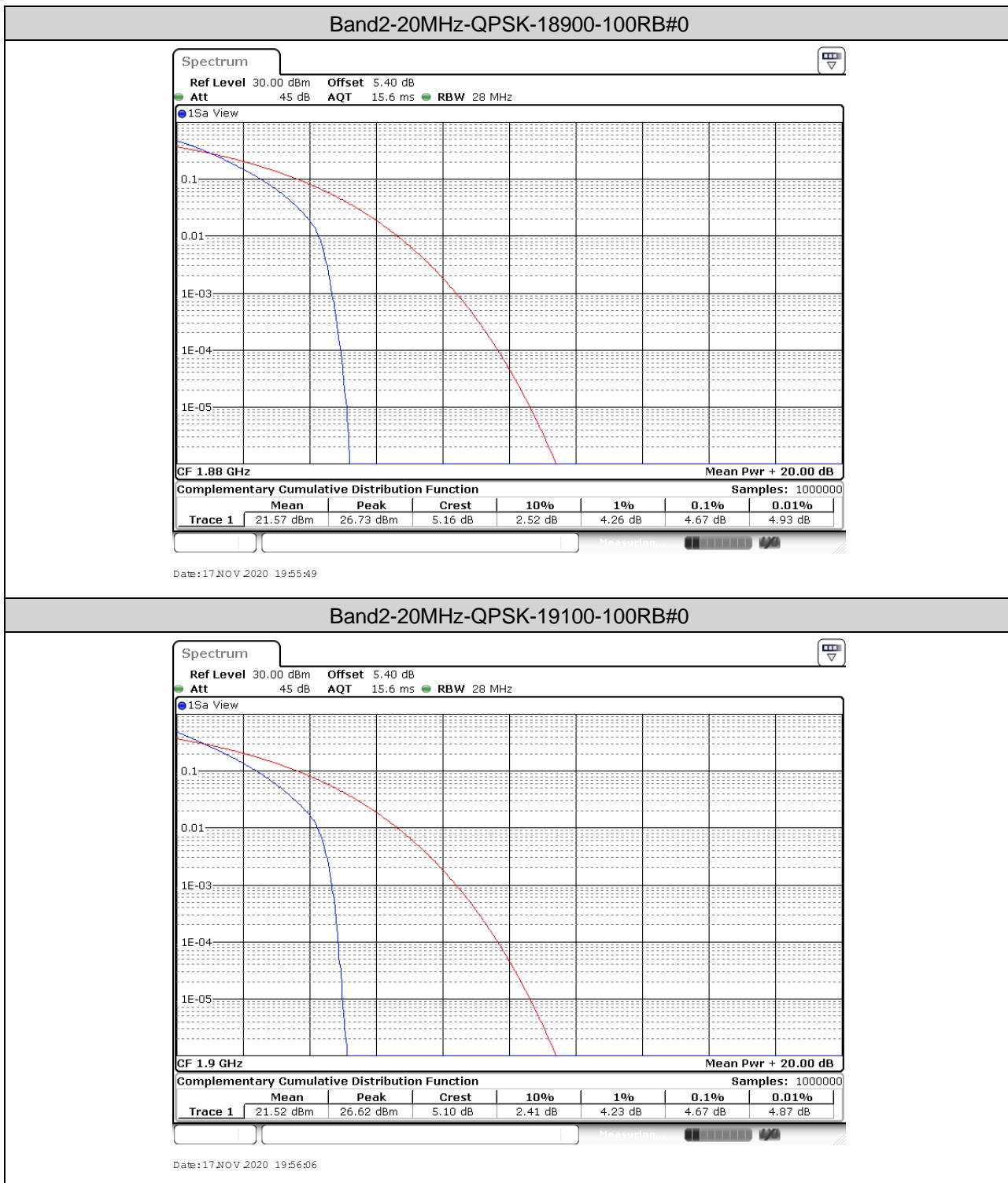
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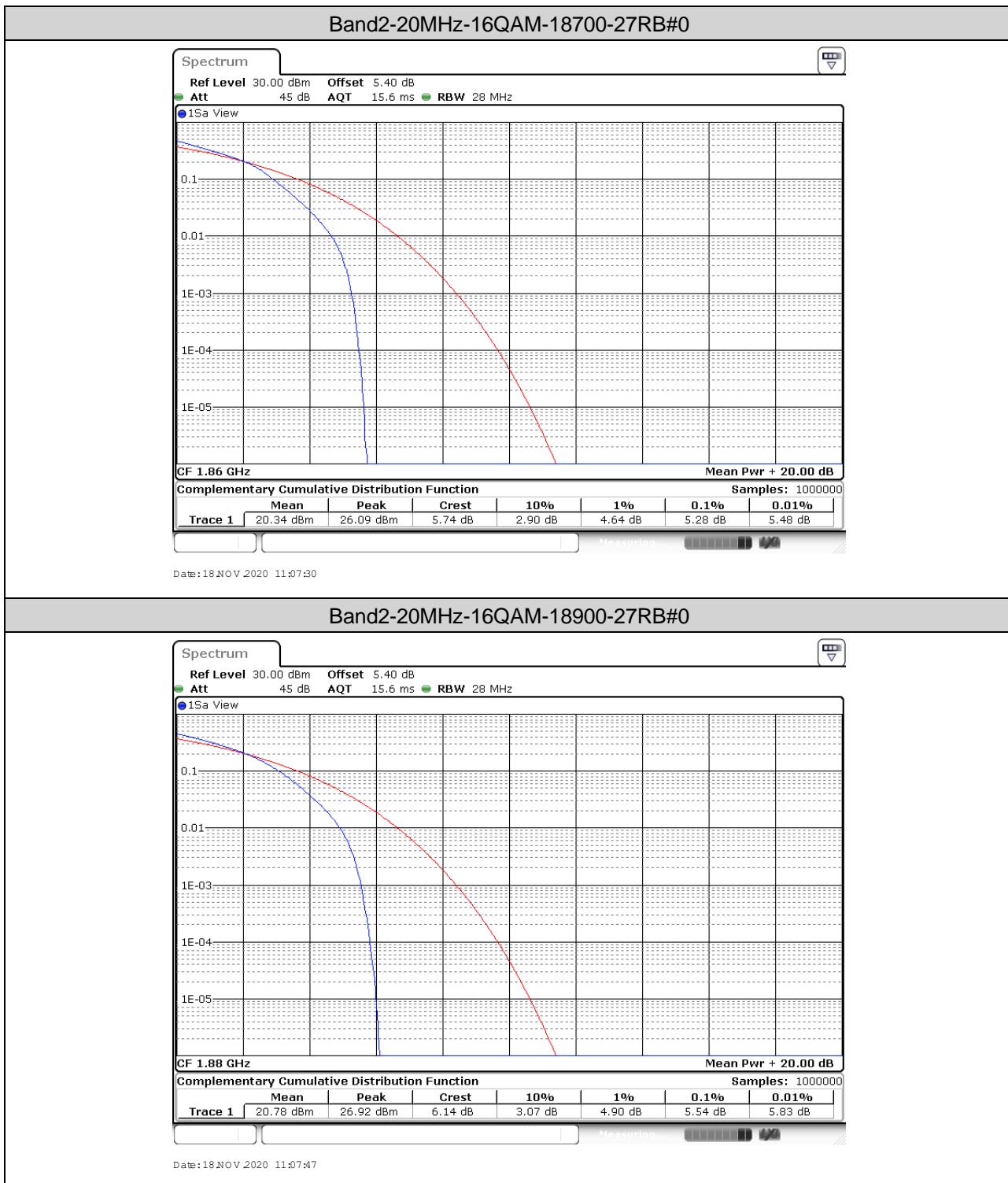


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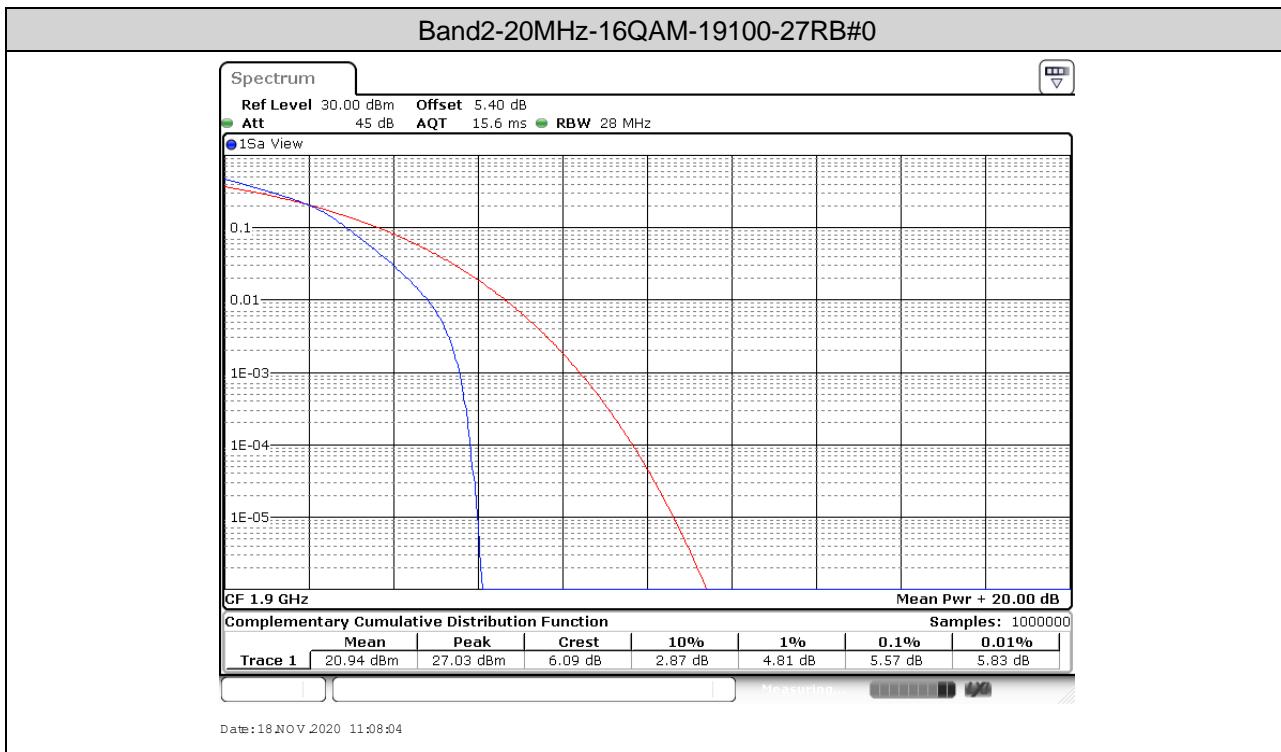


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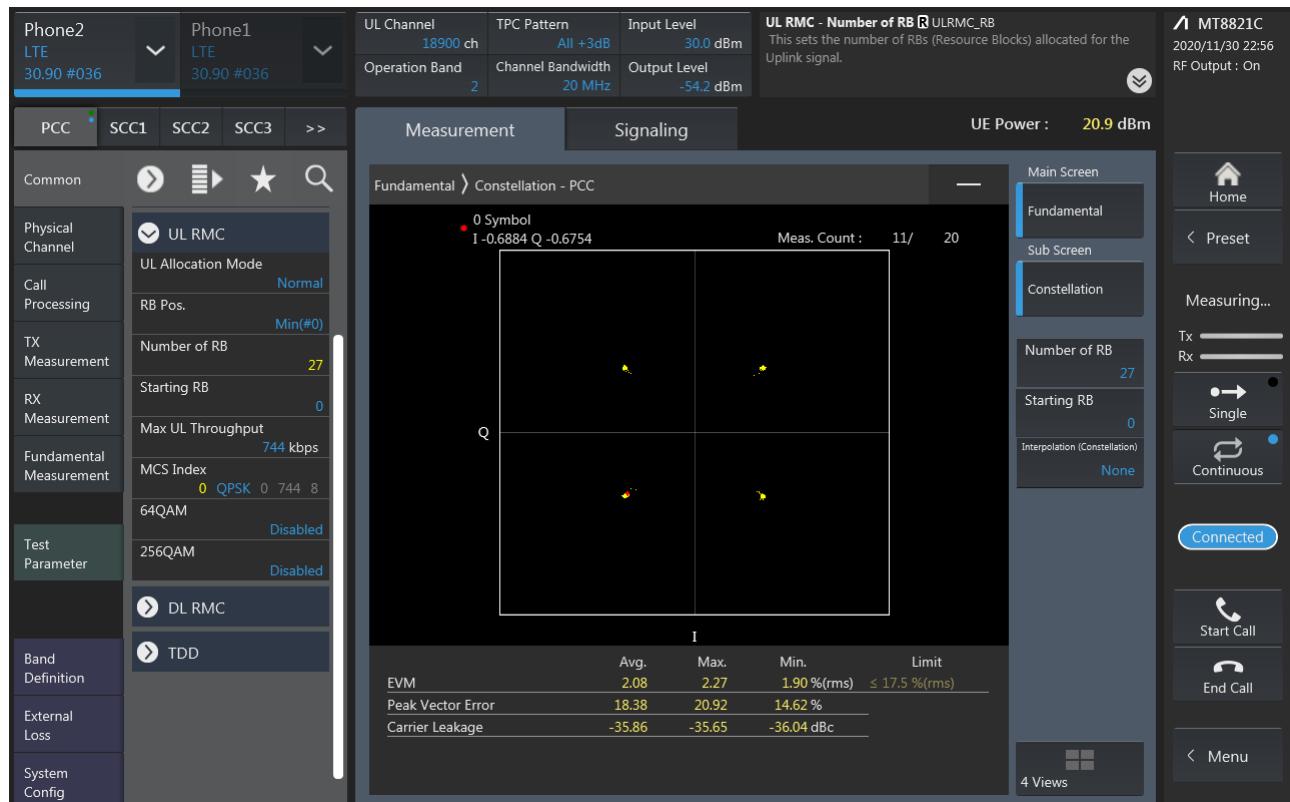


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### 3 Modulation Characteristics

#### 3.1 Test Mode = LTE /TM1 20MHz

##### 3.1.1 Test Channel = MCH



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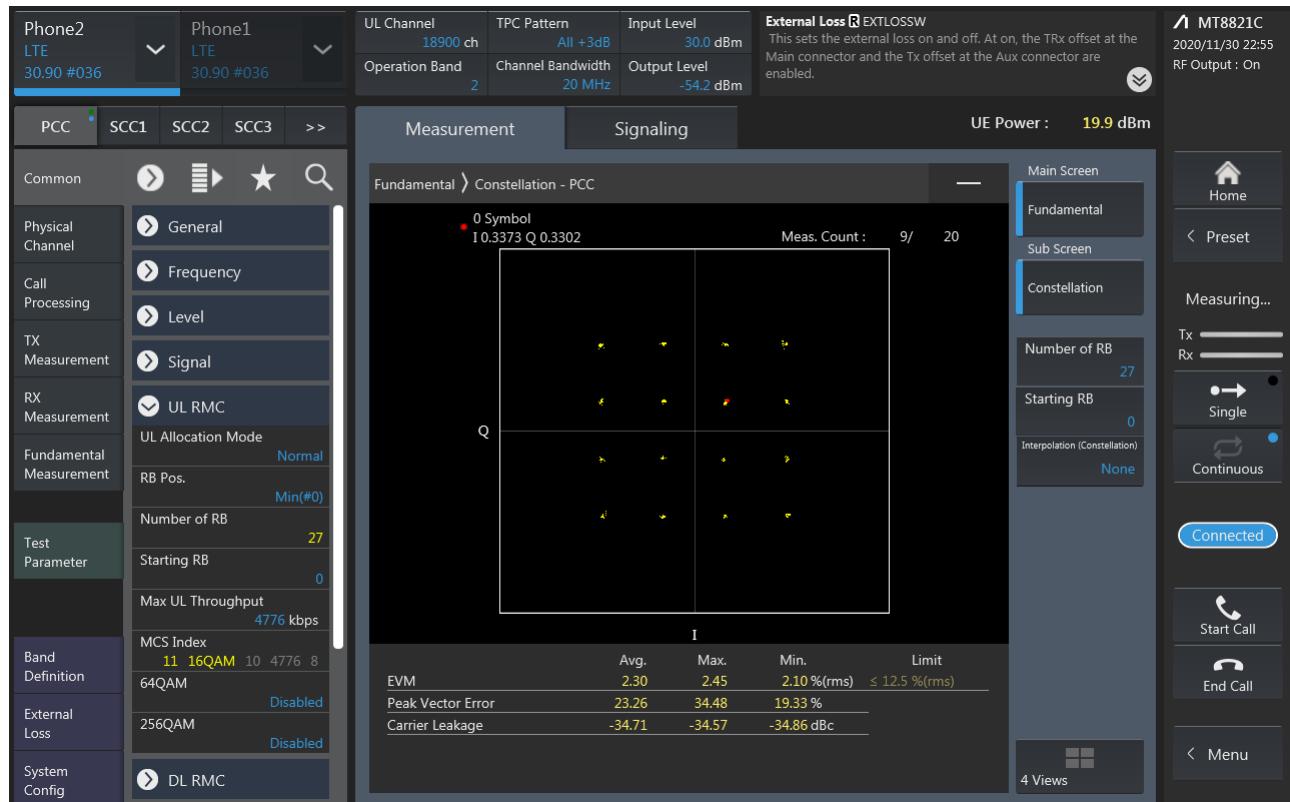
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## 3.2 Test Mode = LTE /TM2 20MHz

### 3.2.1 Test Channel = MCH



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## 4 26dB Bandwidth and Occupied Bandwidth

### 4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.091	1.293	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.091	1.284	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.094	1.293	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.1	1.308	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.097	1.302	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.311	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.697	2.988	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.703	2.982	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.697	2.994	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.697	2.988	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.697	2.976	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.697	2.982	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.476	4.920	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.466	4.930	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.900	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.486	4.920	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.476	4.920	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.476	4.910	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.911	9.700	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.891	9.700	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.891	9.600	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.875	5.700	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.895	5.620	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.875	5.660	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.910	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.397	14.790	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.457	14.730	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.065	6.120	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.065	6.030	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.065	6.060	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.902	19.360	PASS

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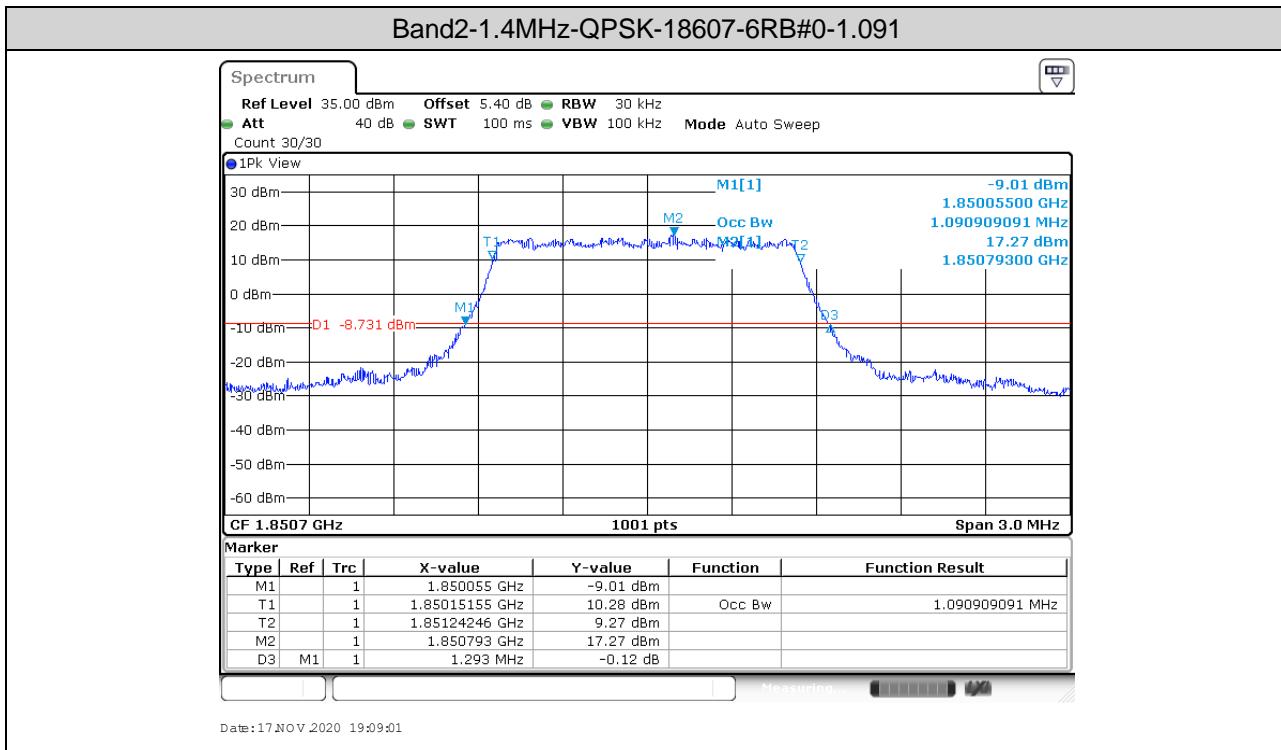


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Band2	20MHz	QPSK	18900	100RB#0	17.782	19.320	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.902	19.480	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.195	6.480	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.195	6.480	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.195	6.480	PASS

## 4.2 Test Plots



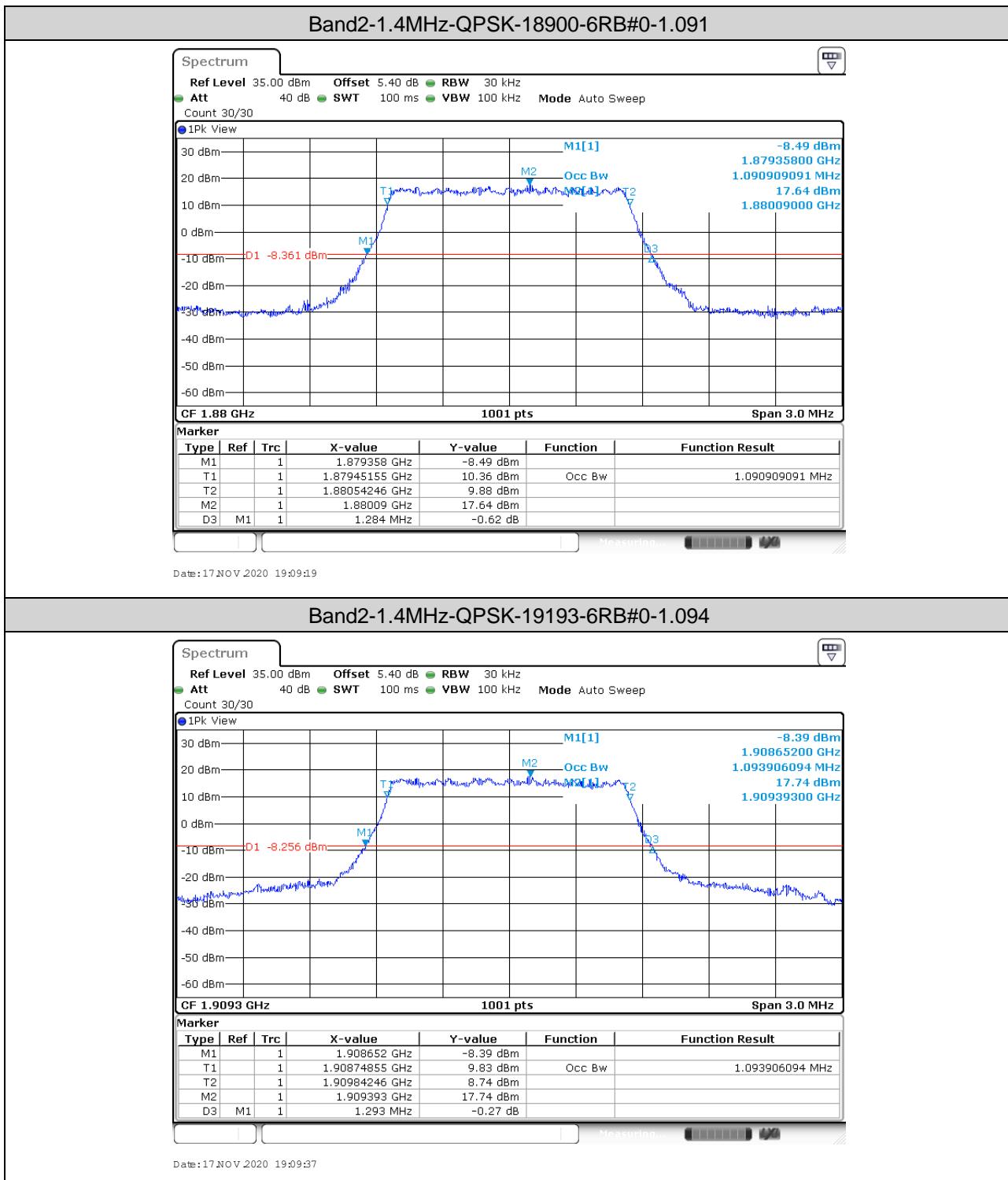
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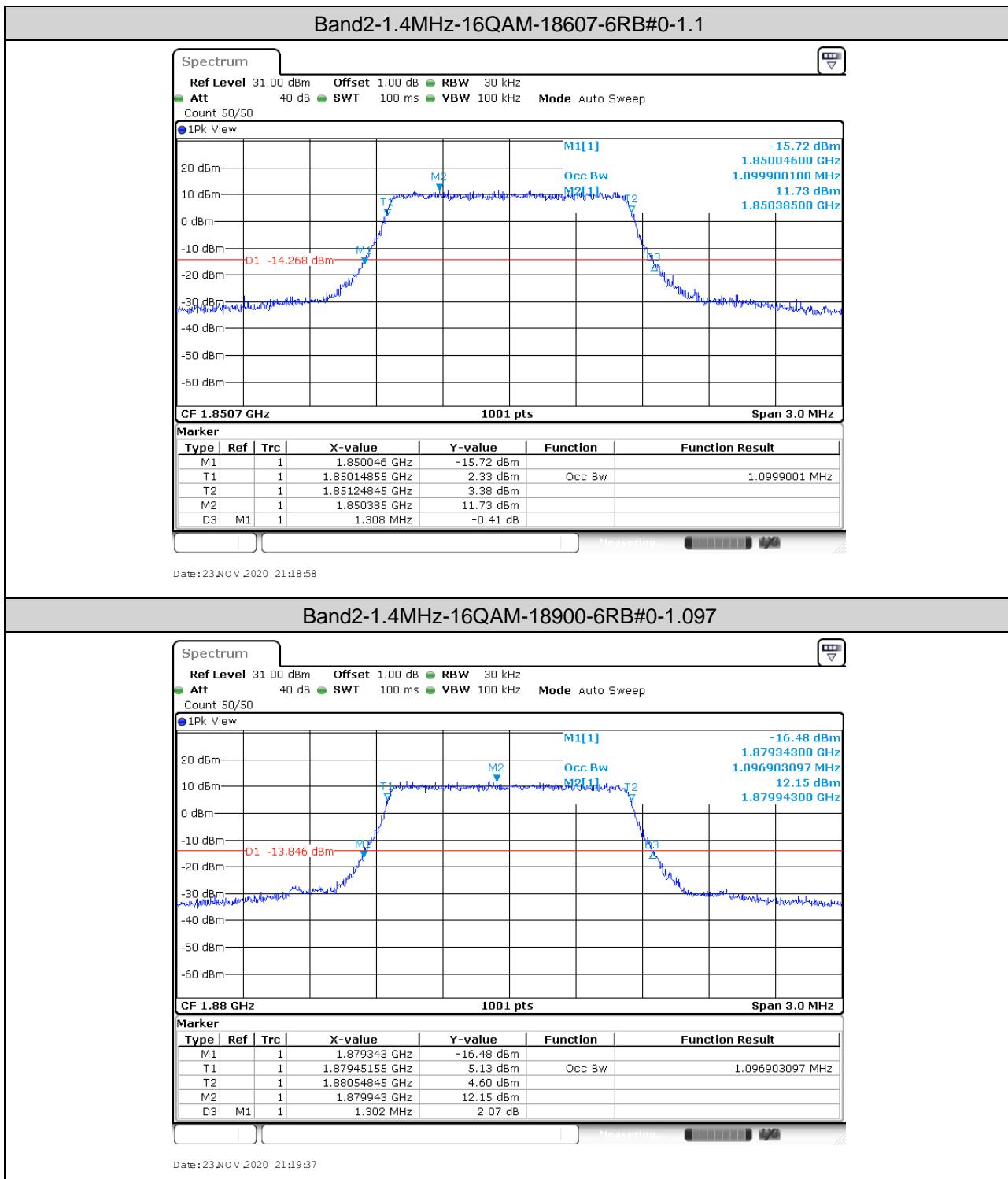


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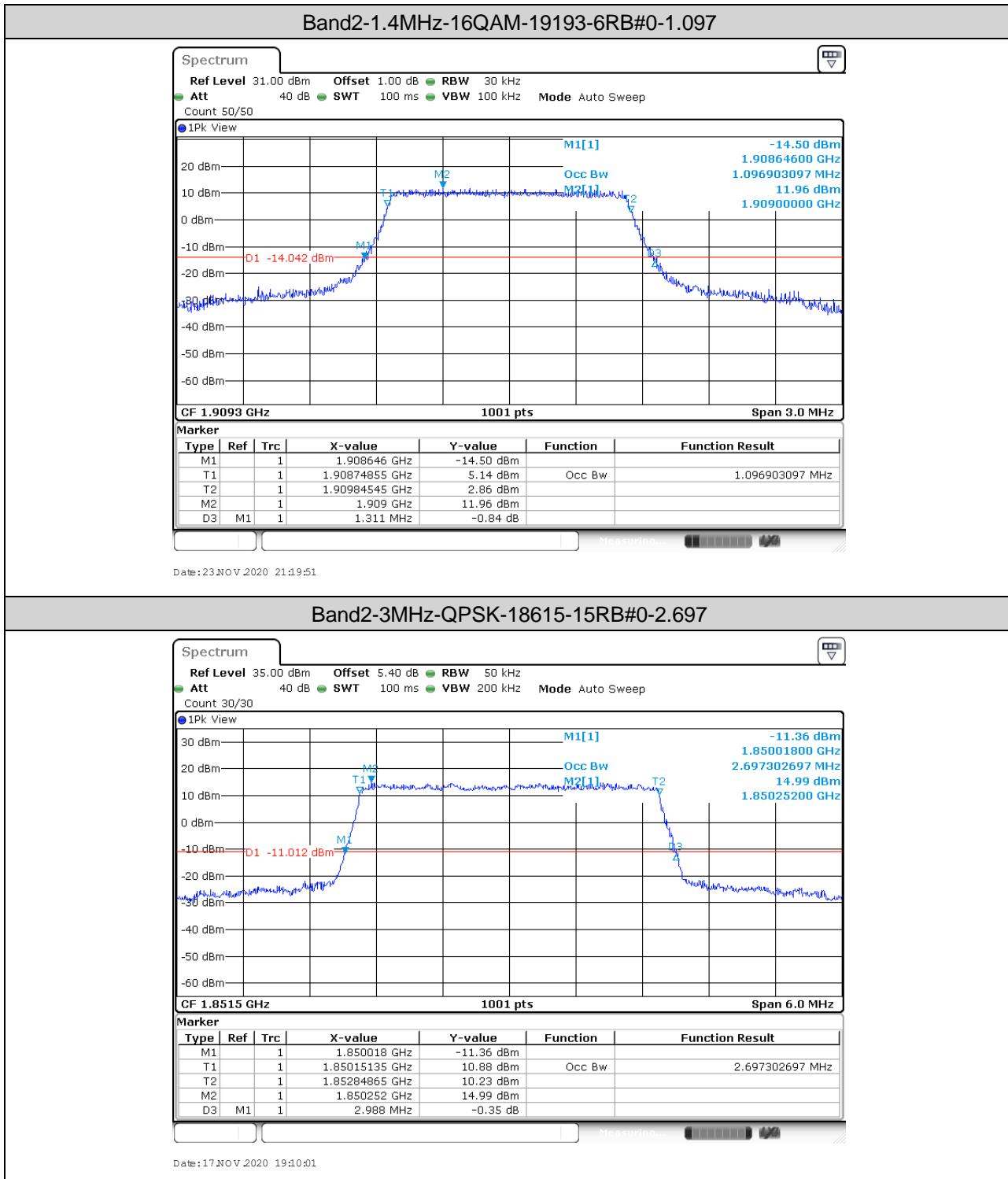
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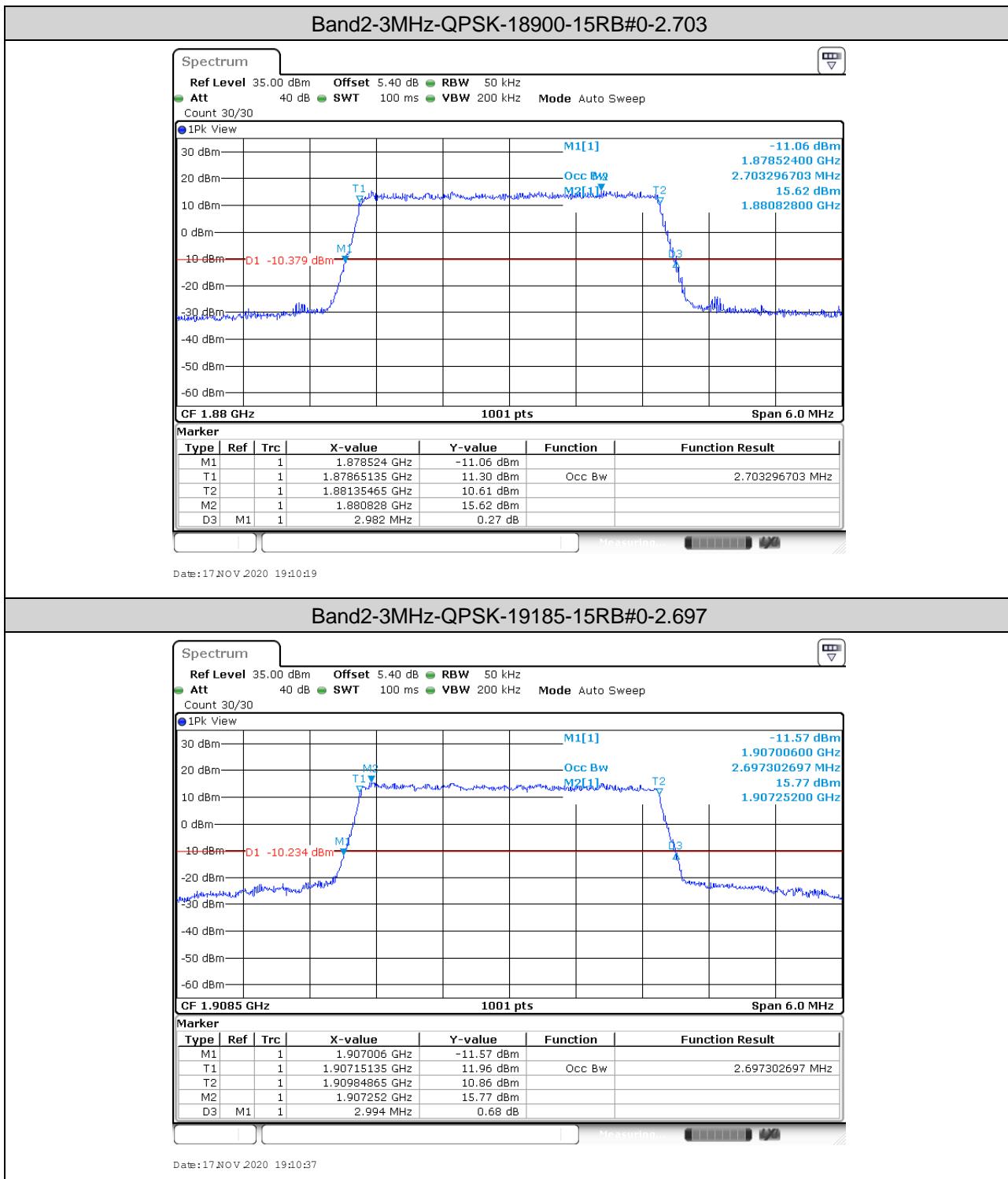


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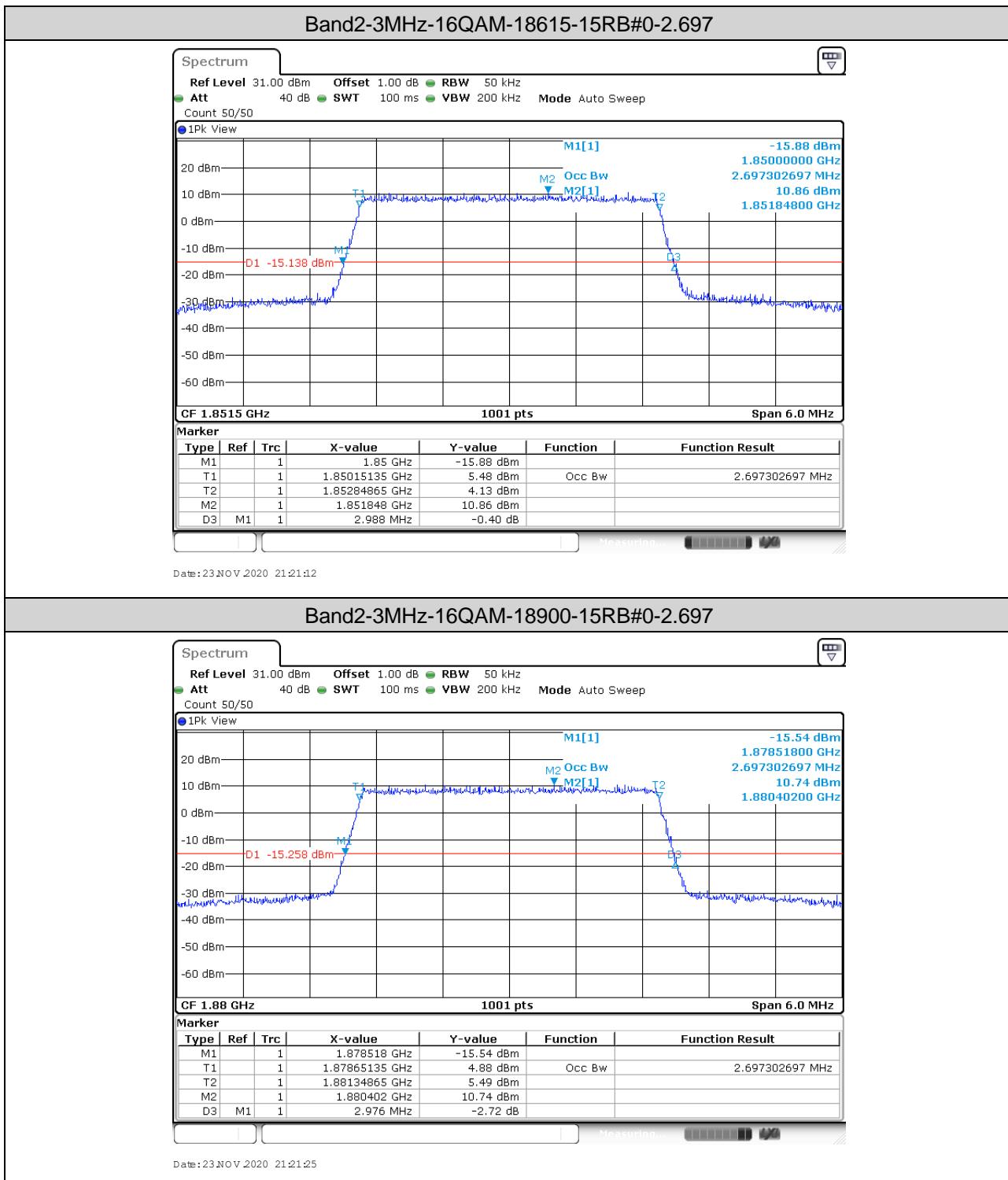
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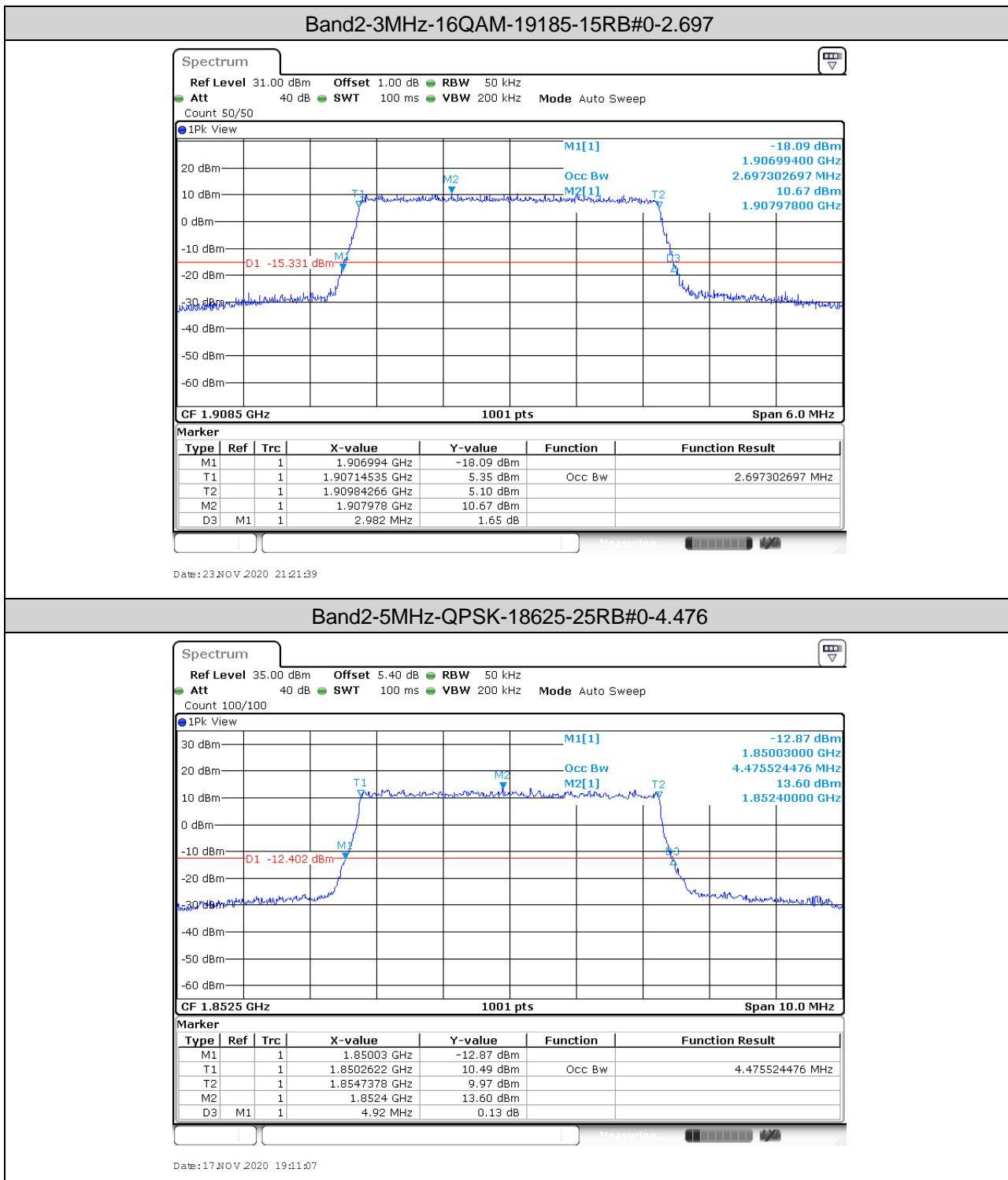
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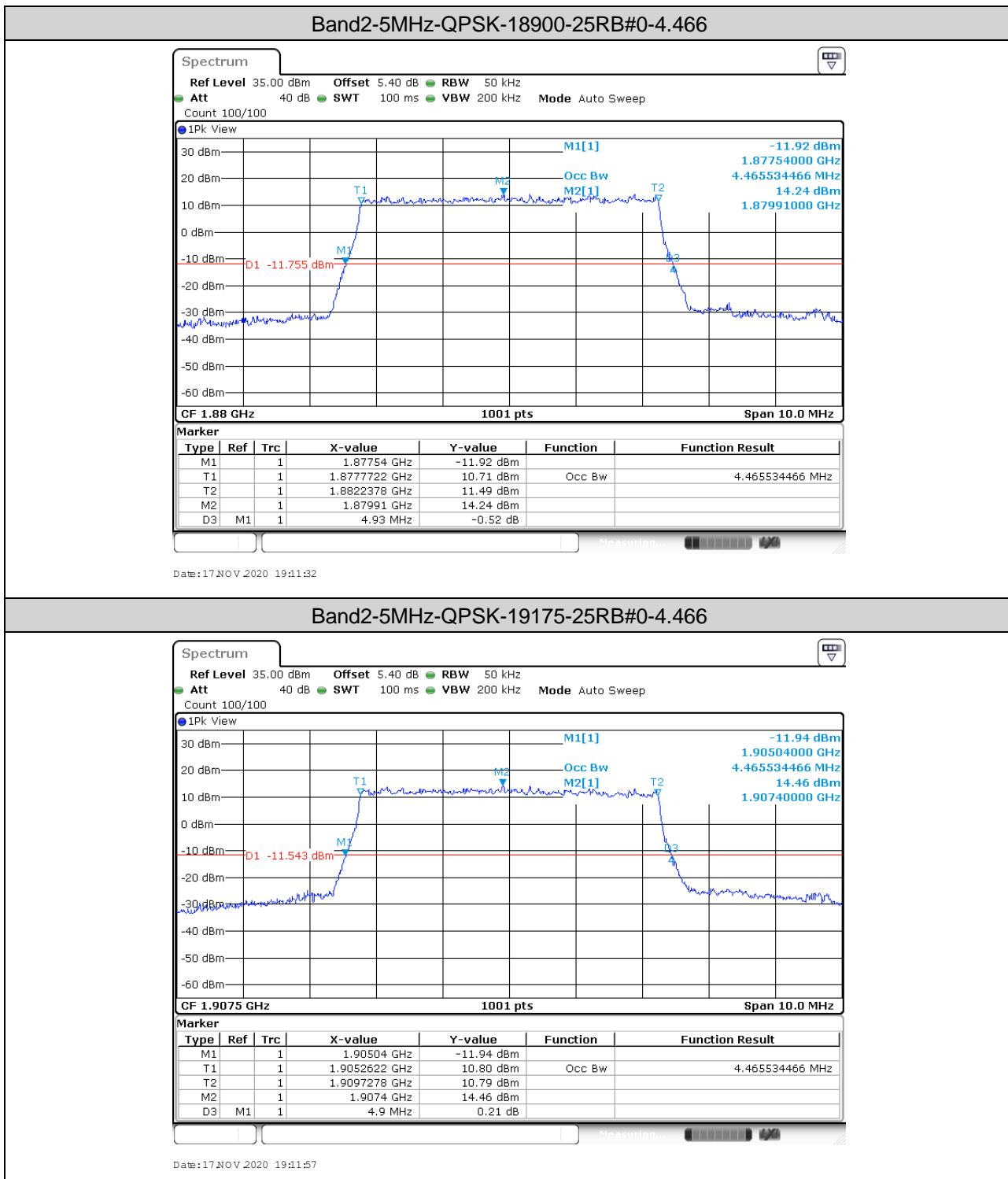


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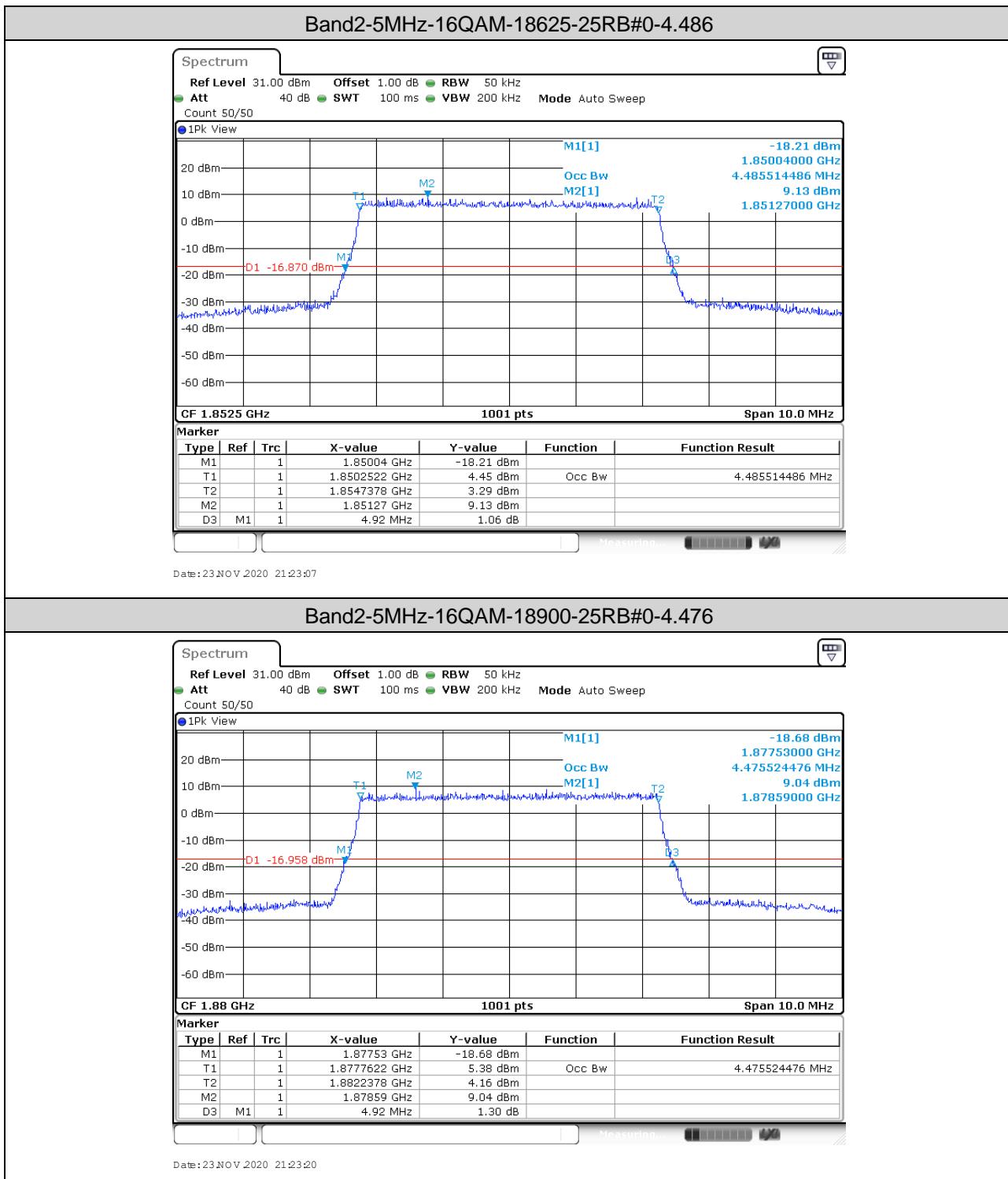
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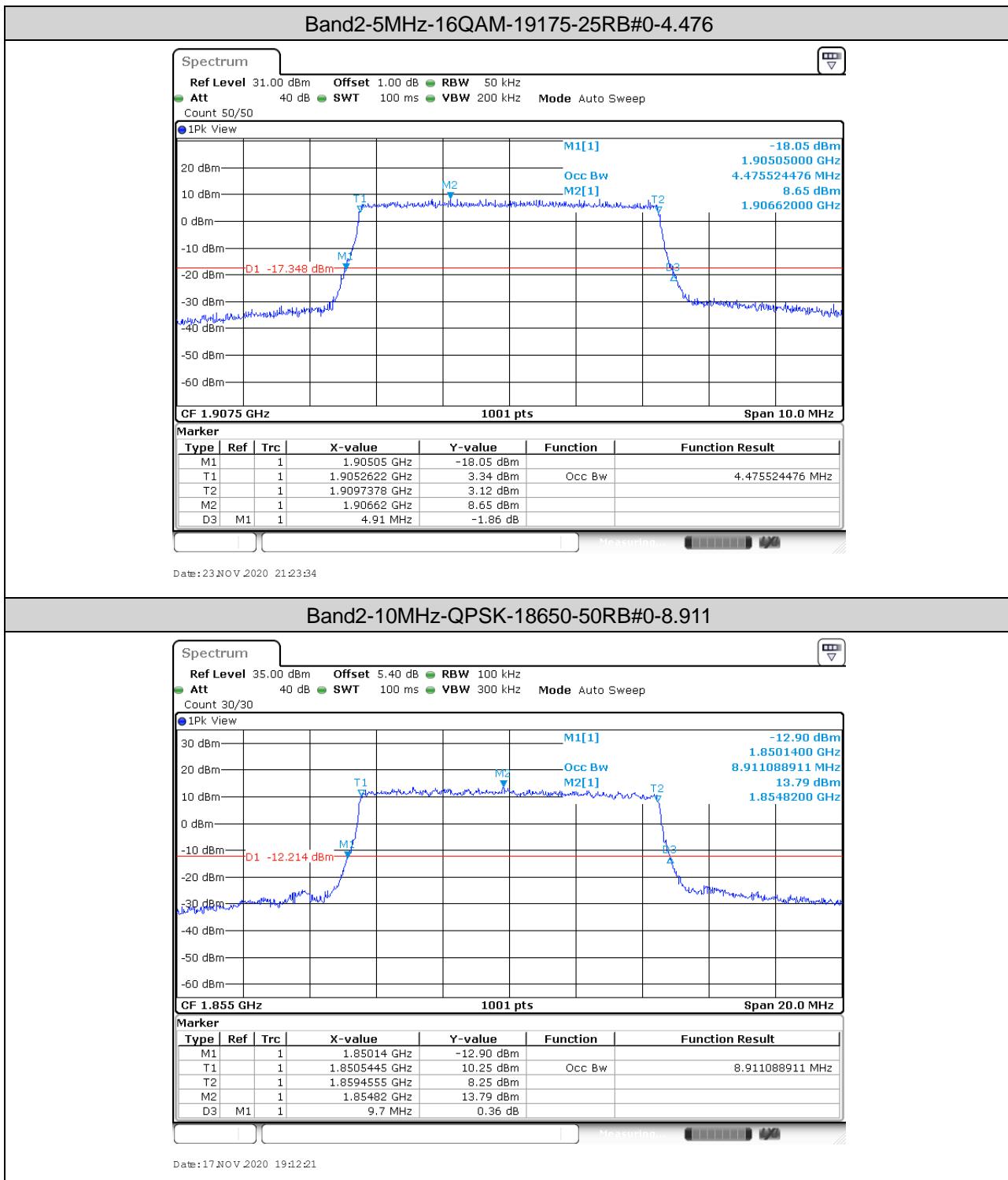
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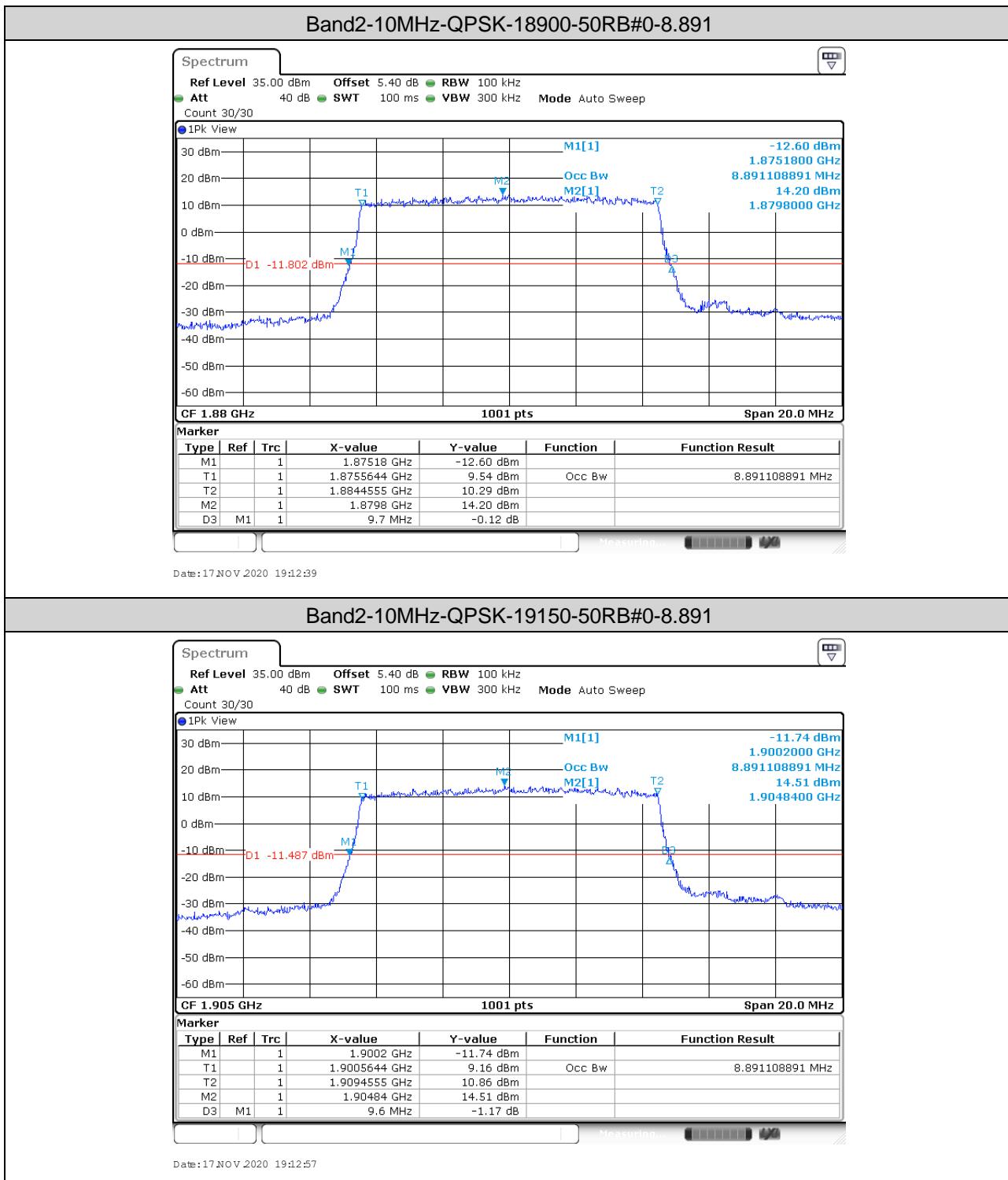


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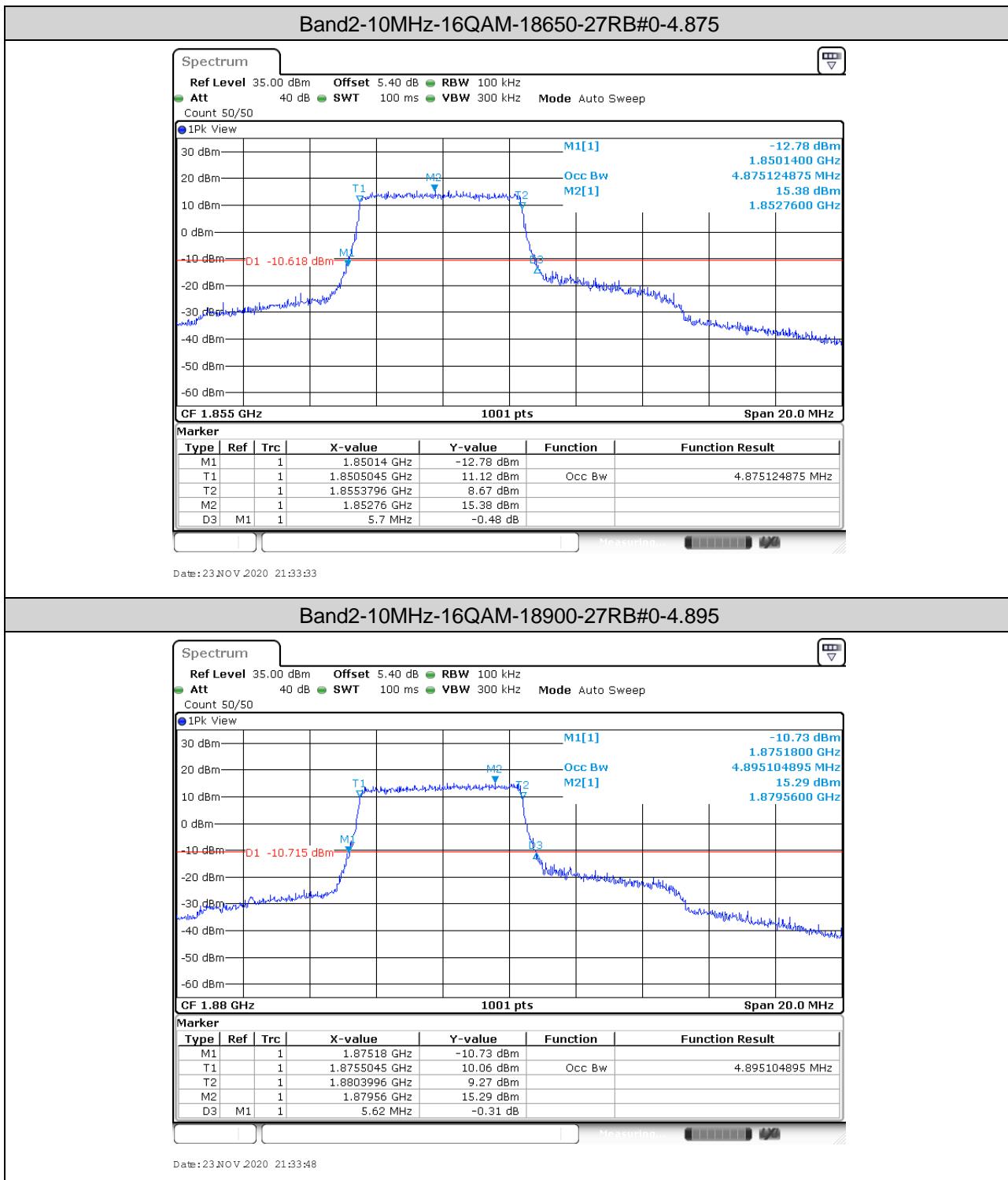
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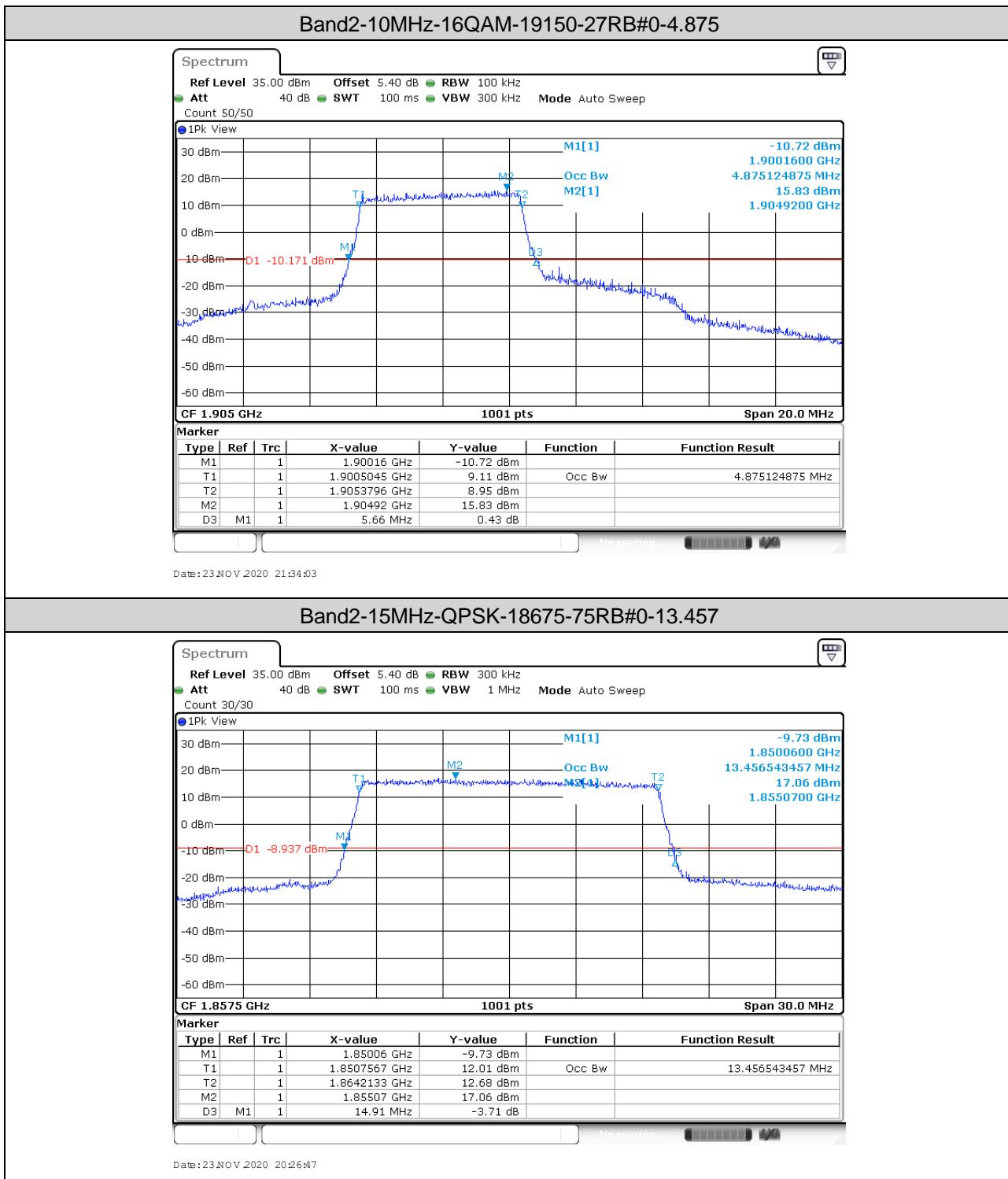
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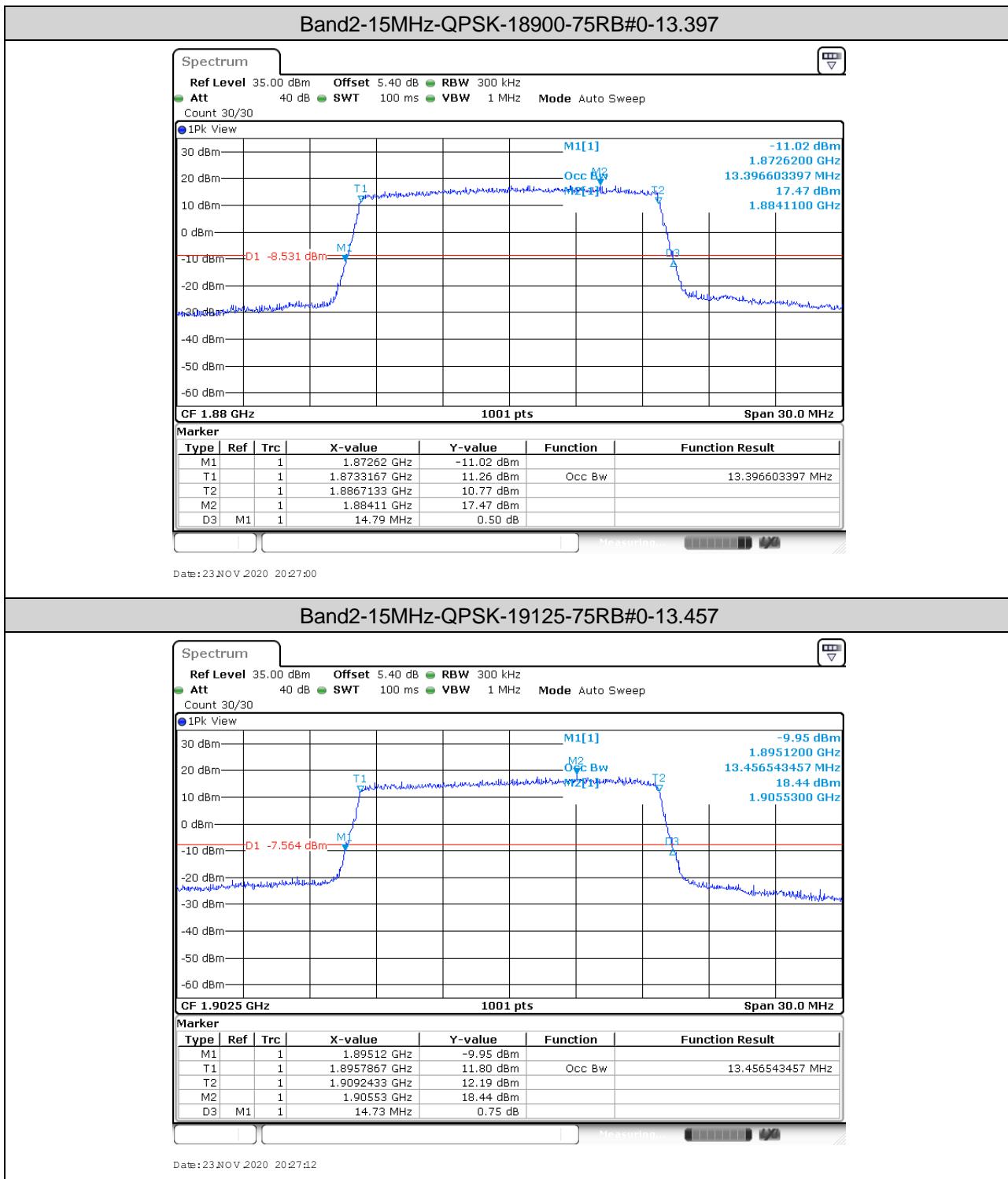
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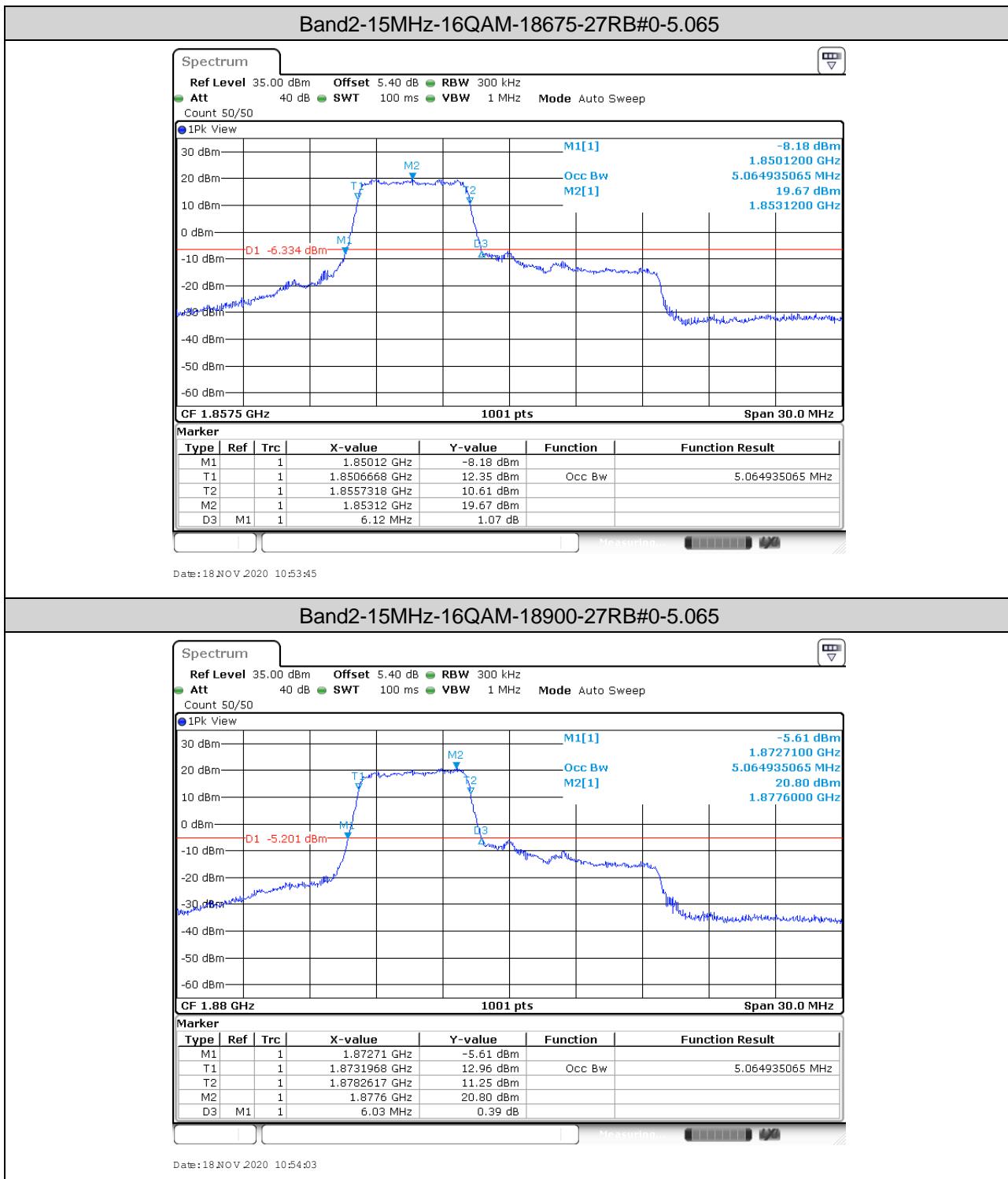
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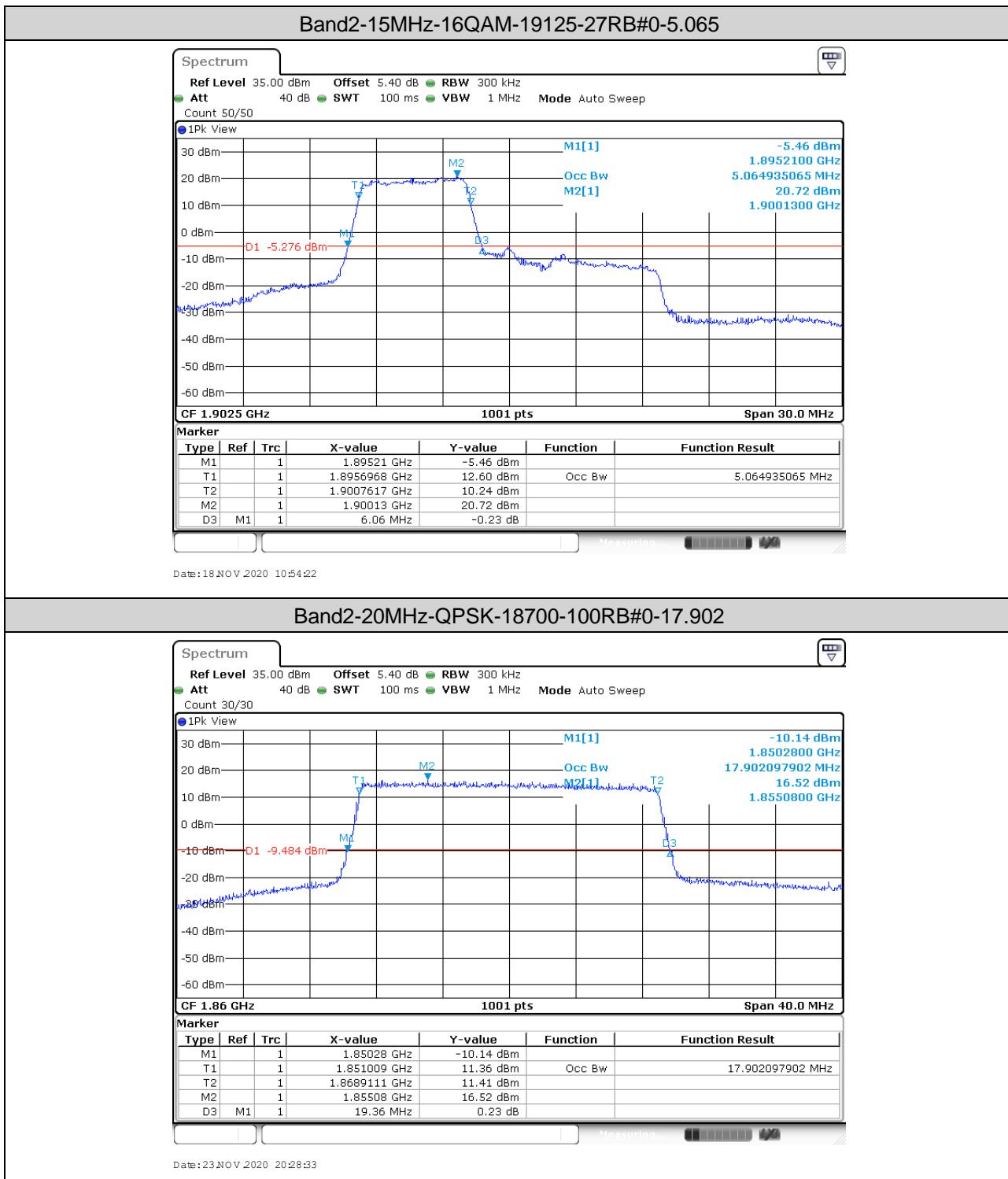


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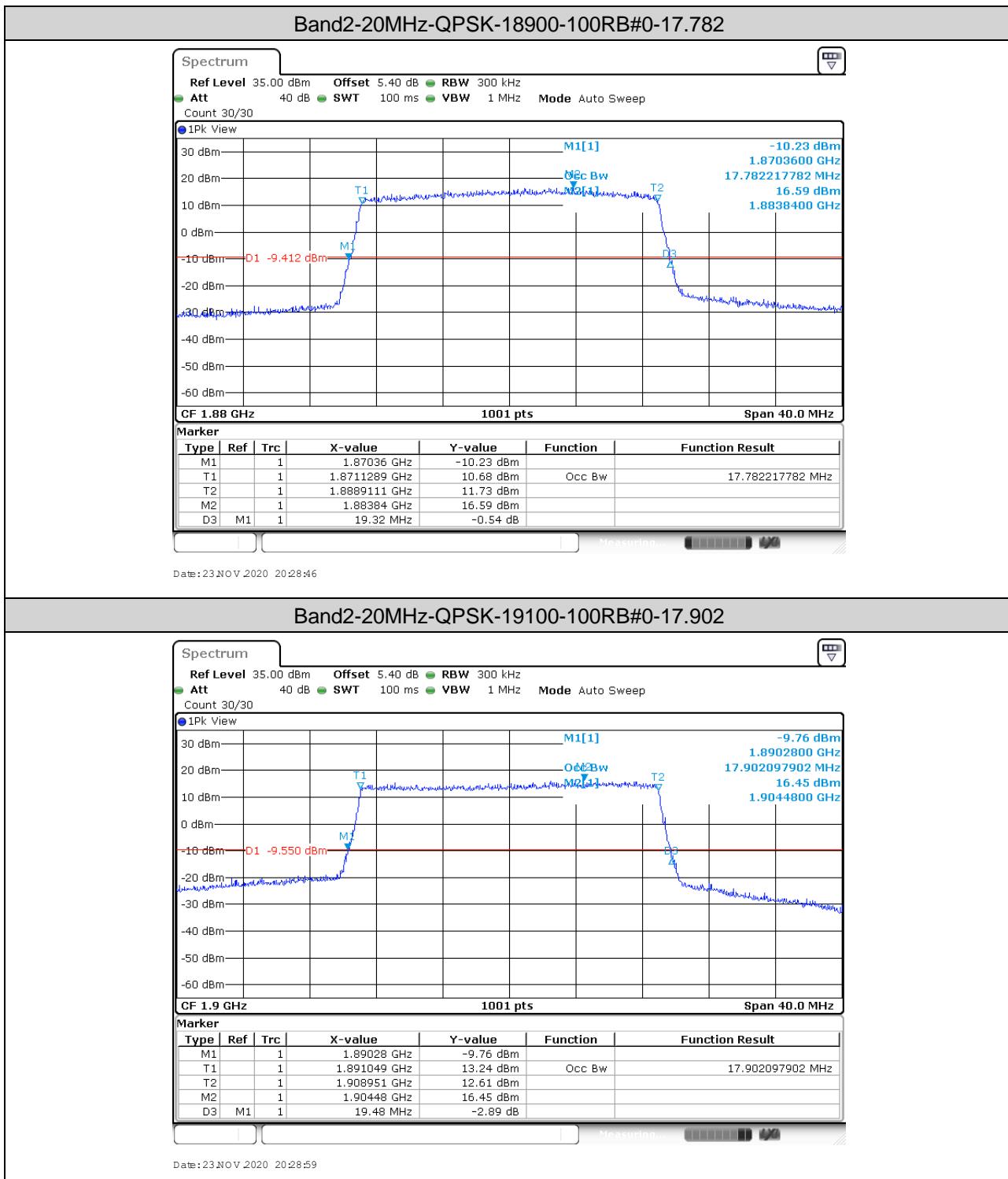
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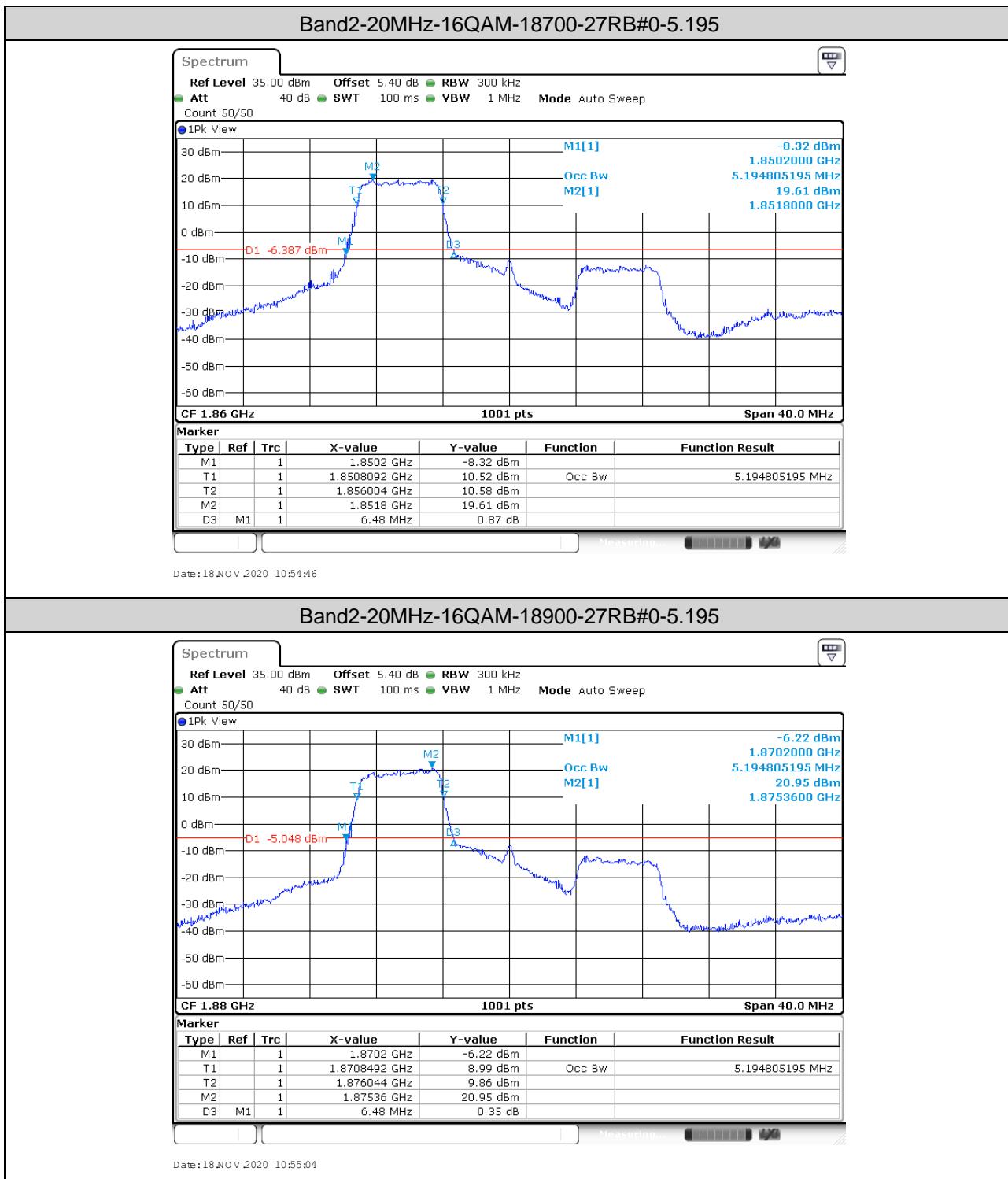
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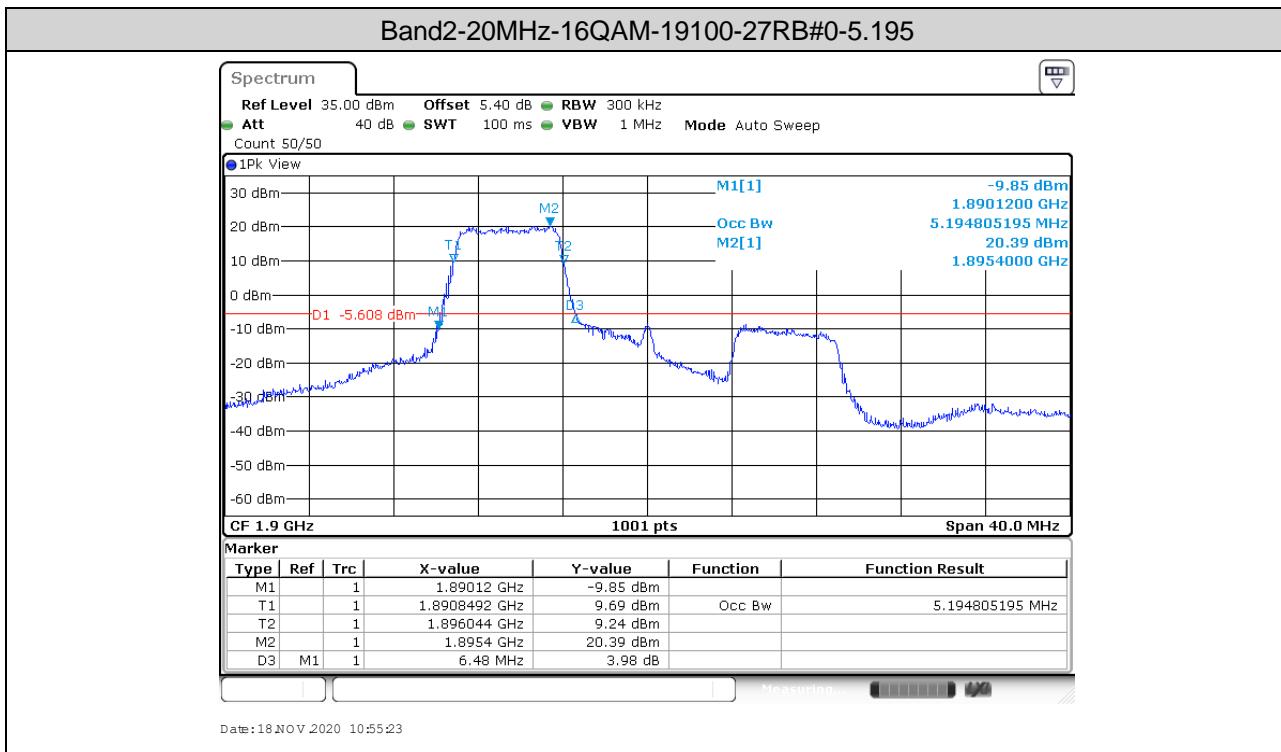
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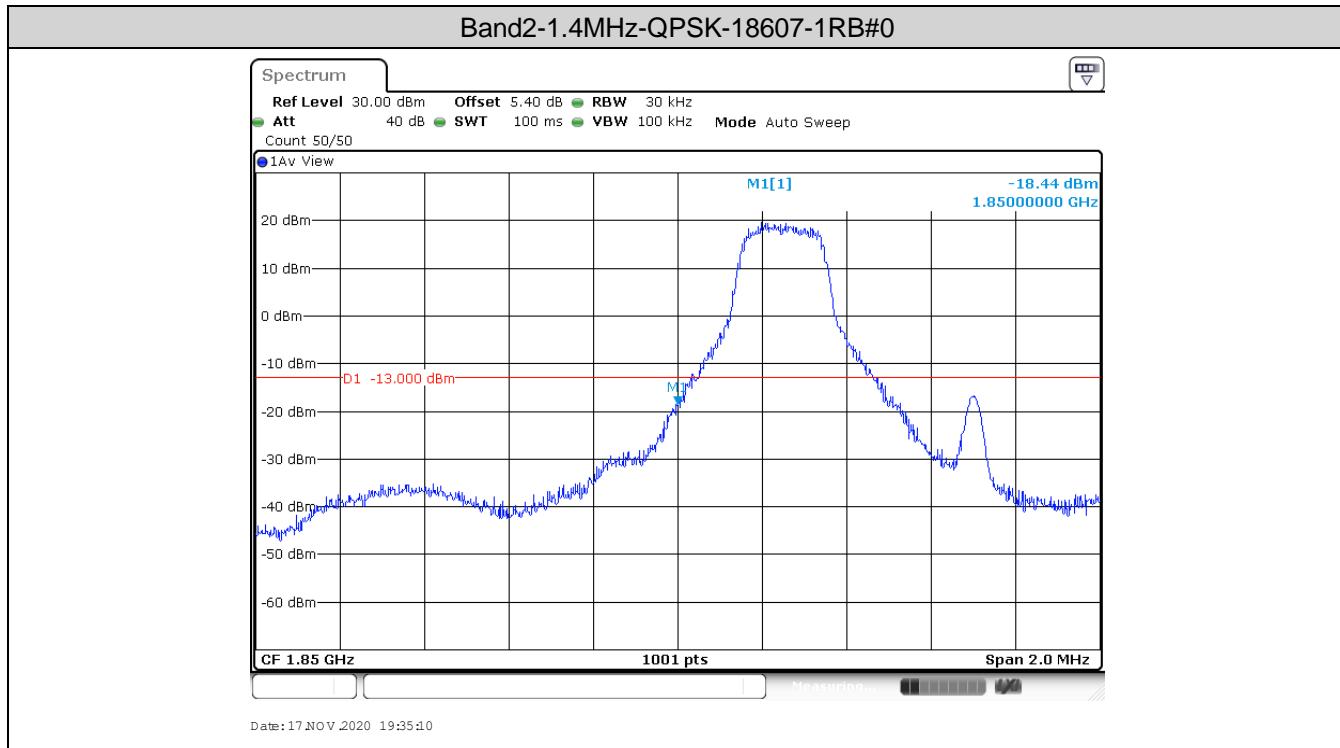
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## 5 Band Edge Compliance

### 5.1 Test Plots



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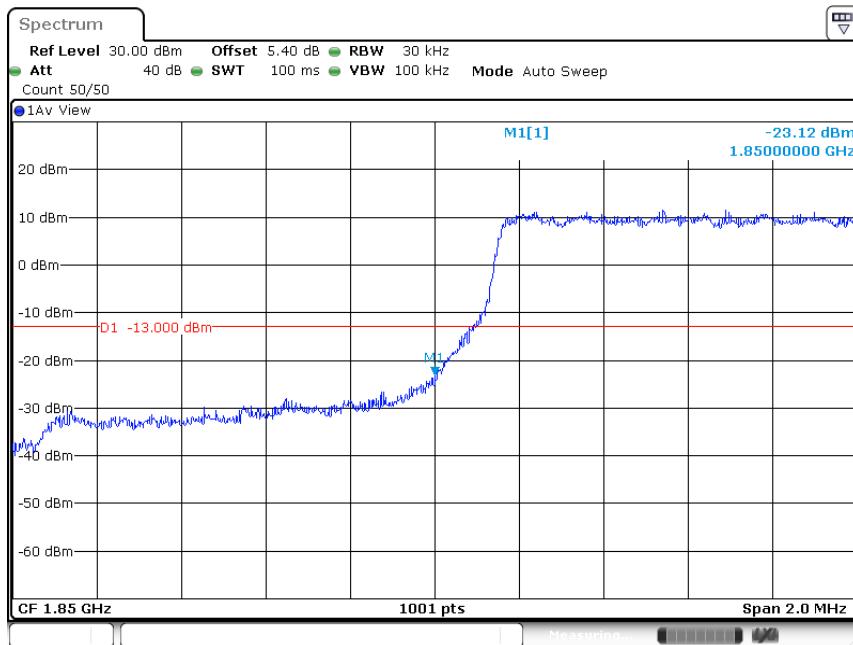
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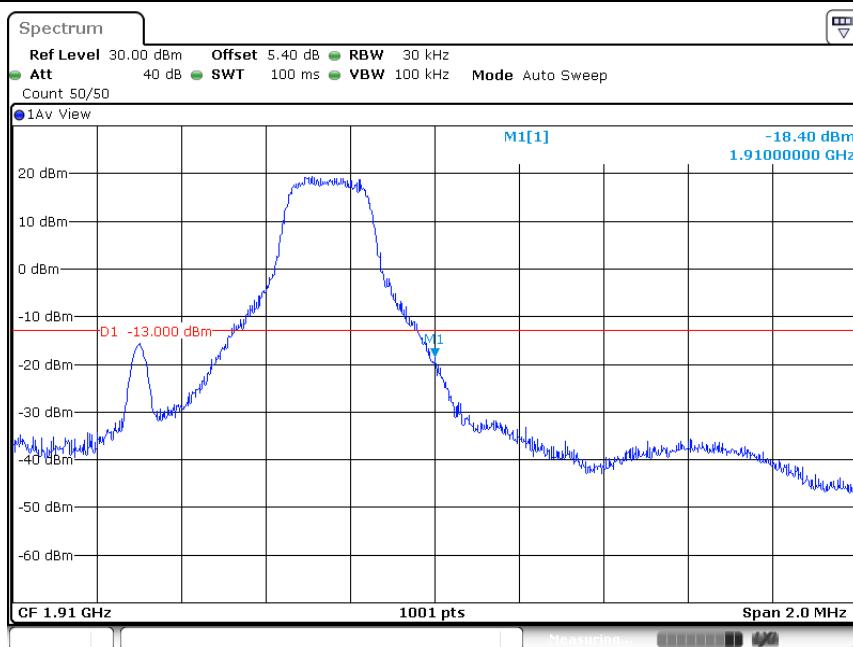
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## Band2-1.4MHz-QPSK-18607-6RB#0



Date: 17 NOV 2020 19:35:30

## Band2-1.4MHz-QPSK-19193-1RB#5



Date: 17 NOV 2020 19:35:57

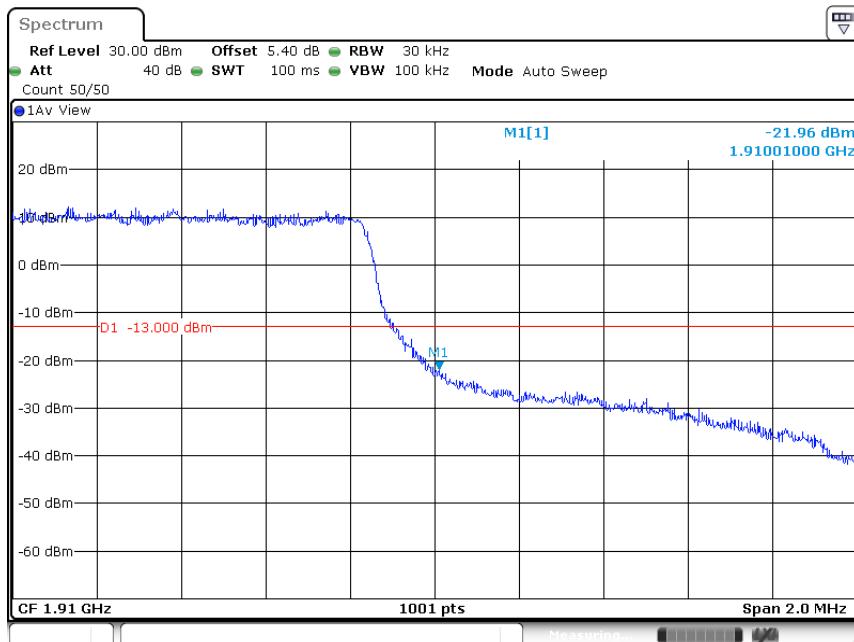
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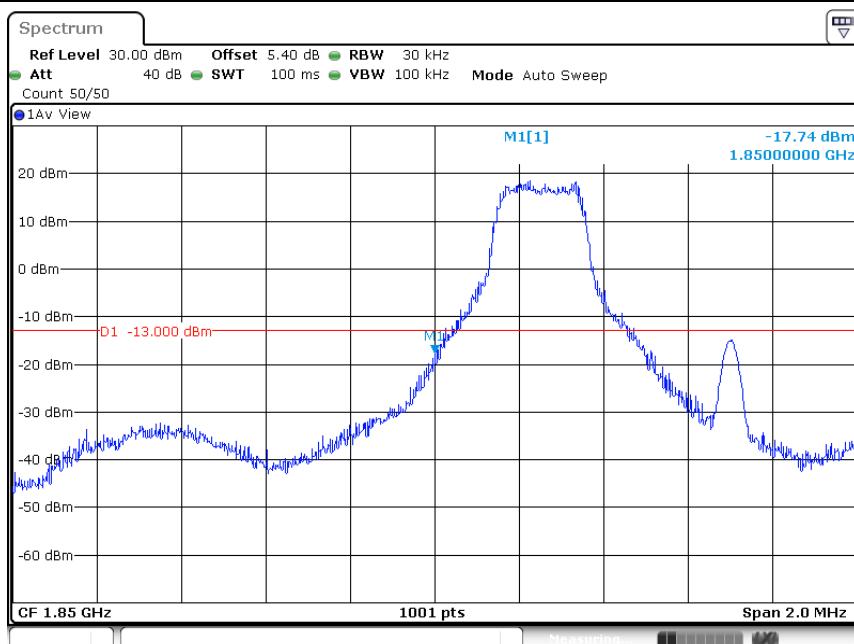
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## Band2-1.4MHz-QPSK-19193-6RB#0



Date: 17 NOV 2020 19:36:17

## Band2-1.4MHz-16QAM-18607-1RB#0



Date: 18 NOV 2020 10:55:51

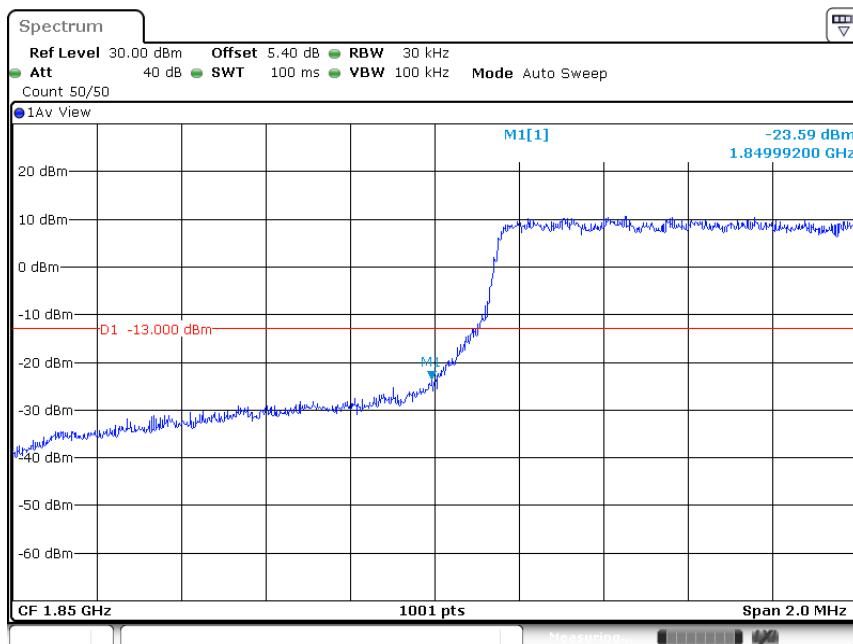
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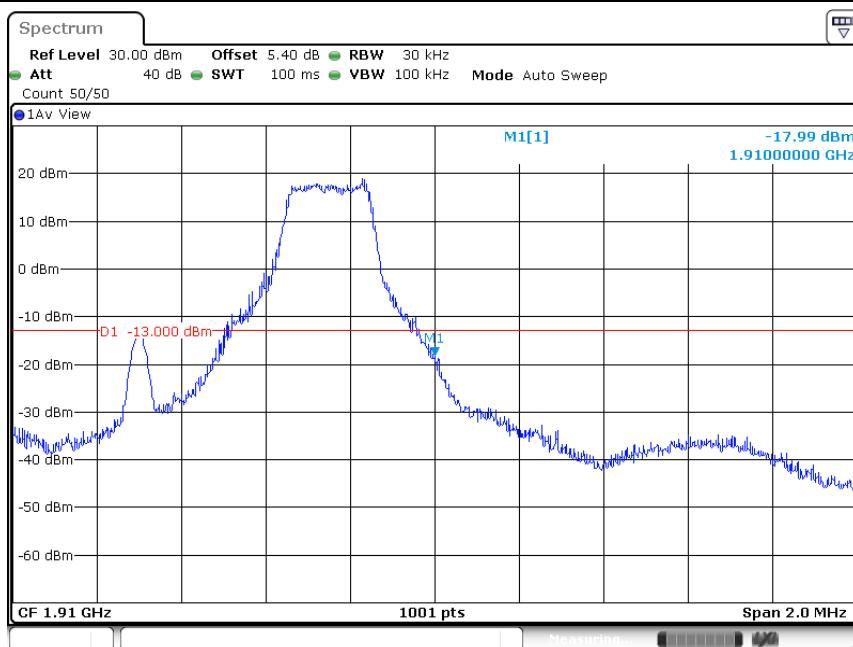
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## Band2-1.4MHz-16QAM-18607-6RB#0



Date: 18 NOV 2020 10:56:11

## Band2-1.4MHz-16QAM-19193-1RB#5



Date: 18 NOV 2020 10:56:38

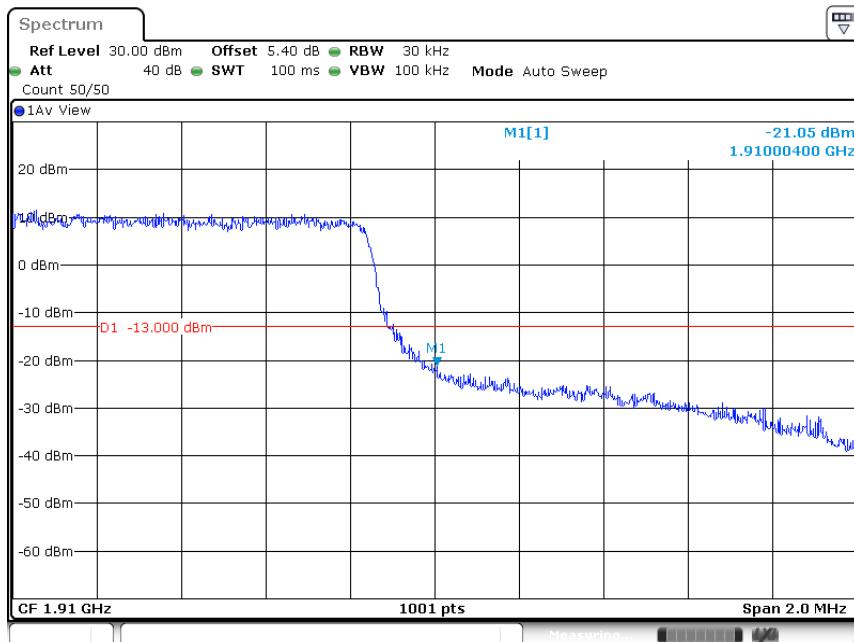
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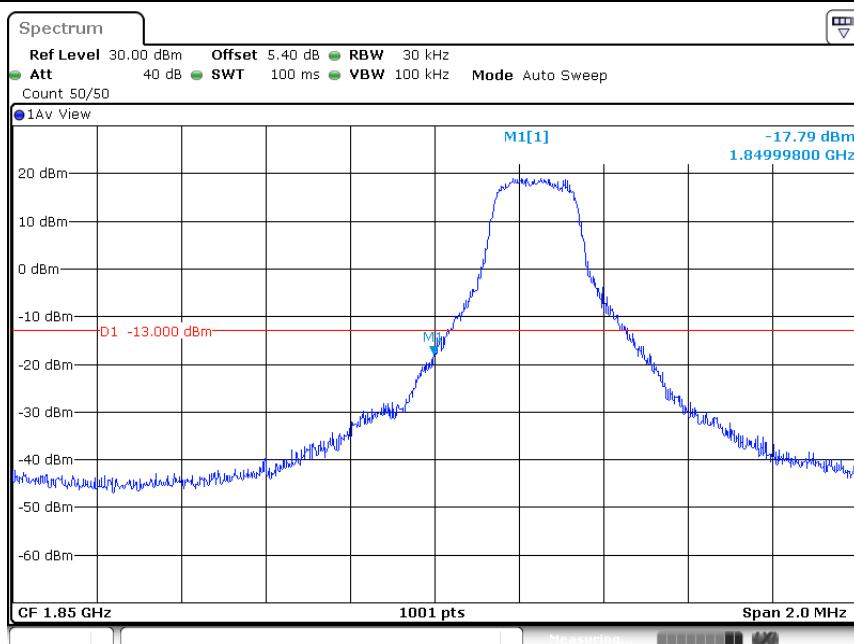
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## Band2-1.4MHz-16QAM-19193-6RB#0



Date: 18 NOV 2020 10:56:58

## Band2-3MHz-QPSK-18615-1RB#0



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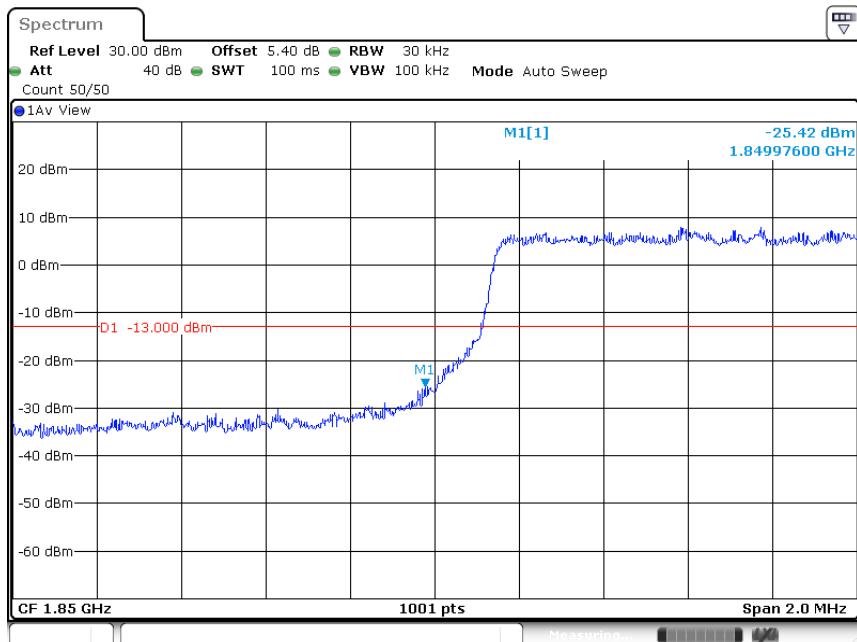


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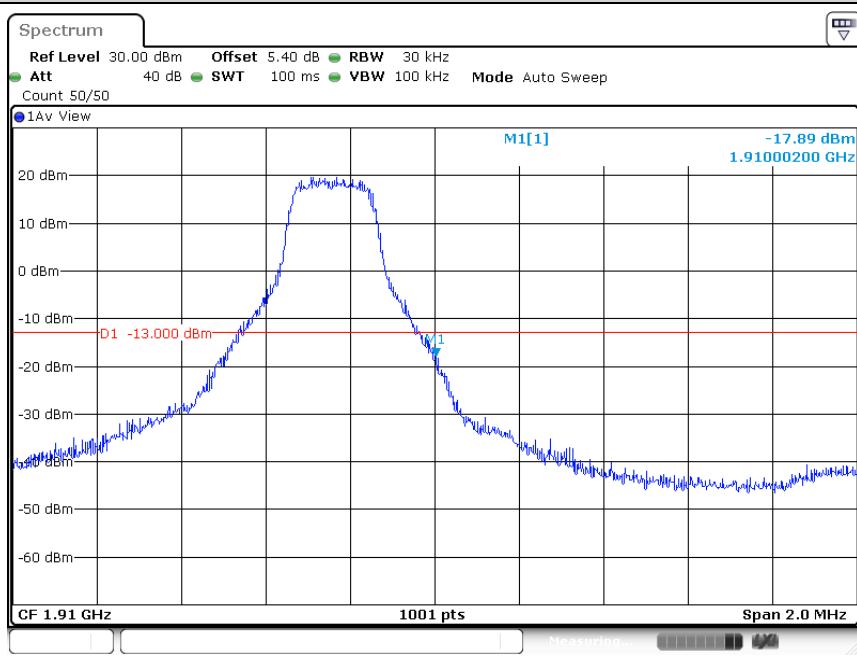
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## Band2-3MHz-QPSK-18615-15RB#0



Date: 17 NOV 2020 19:37:04

## Band2-3MHz-QPSK-19185-1RB#14



Date: 17 NOV 2020 19:37:32

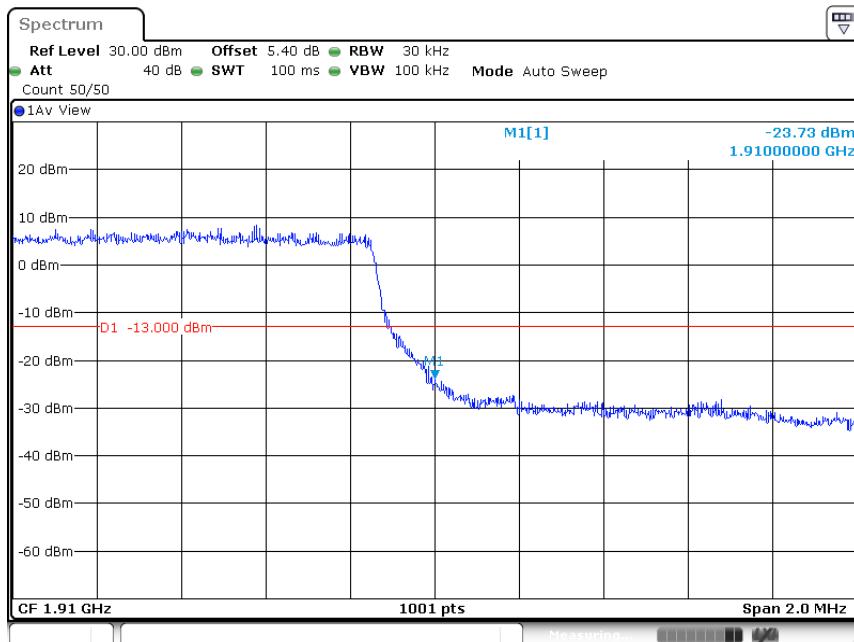
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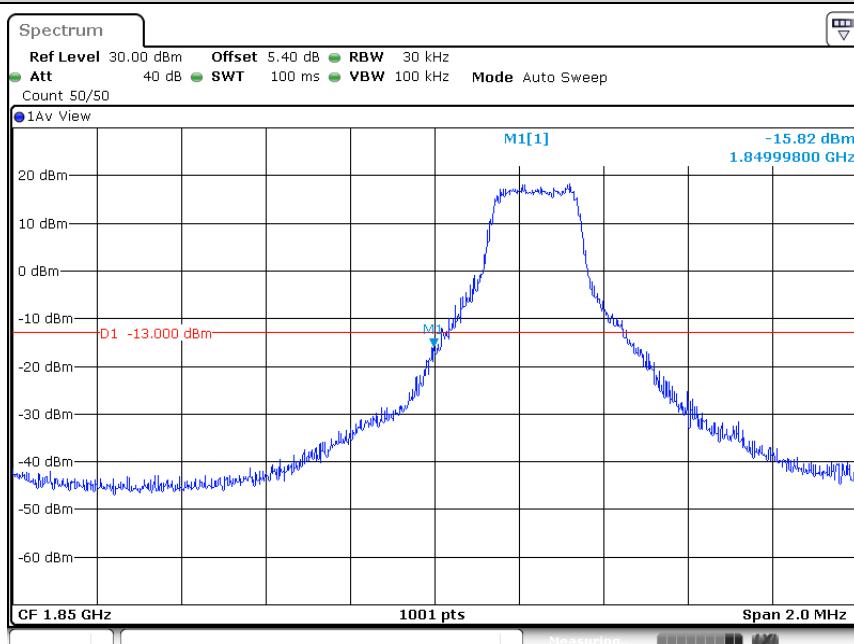
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## Band2-3MHz-QPSK-19185-15RB#0



Date: 17 NOV 2020 19:37:51

## Band2-3MHz-16QAM-18615-1RB#0



Date: 18 NOV 2020 10:57:26

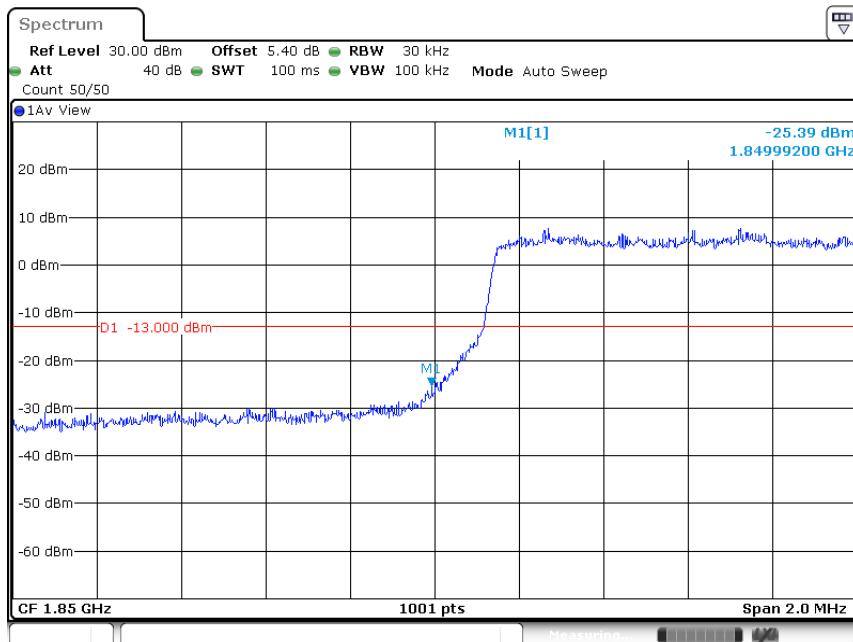
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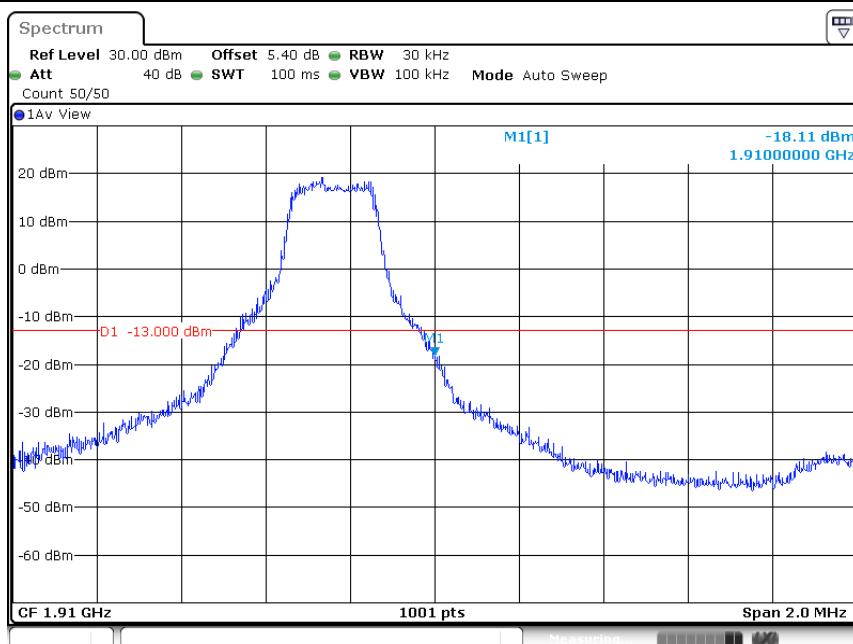
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## Band2-3MHz-16QAM-18615-15RB#0



Date: 18 NOV 2020 10:57:45

## Band2-3MHz-16QAM-19185-1RB#14



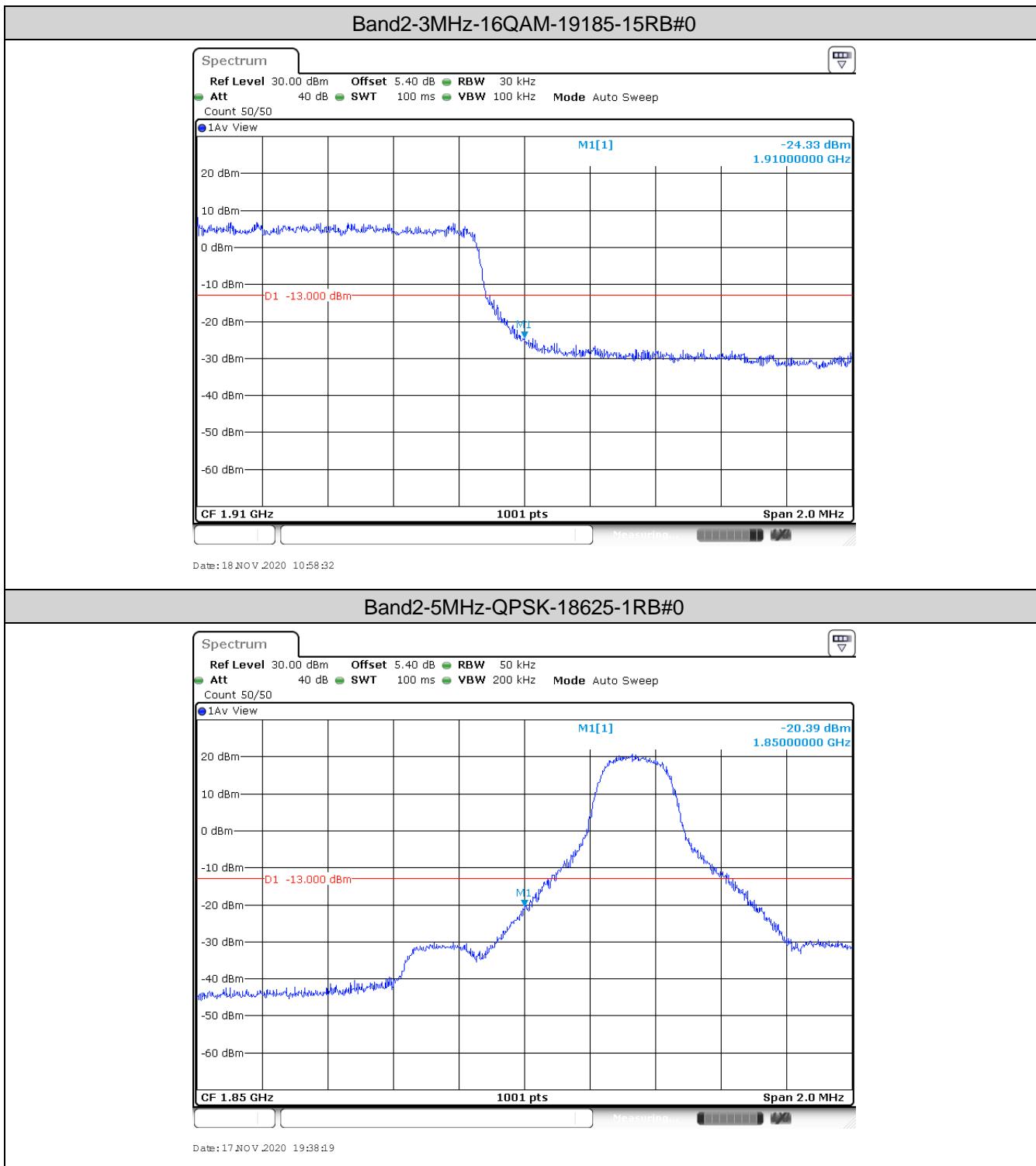
Date: 18 NOV 2020 10:58:13

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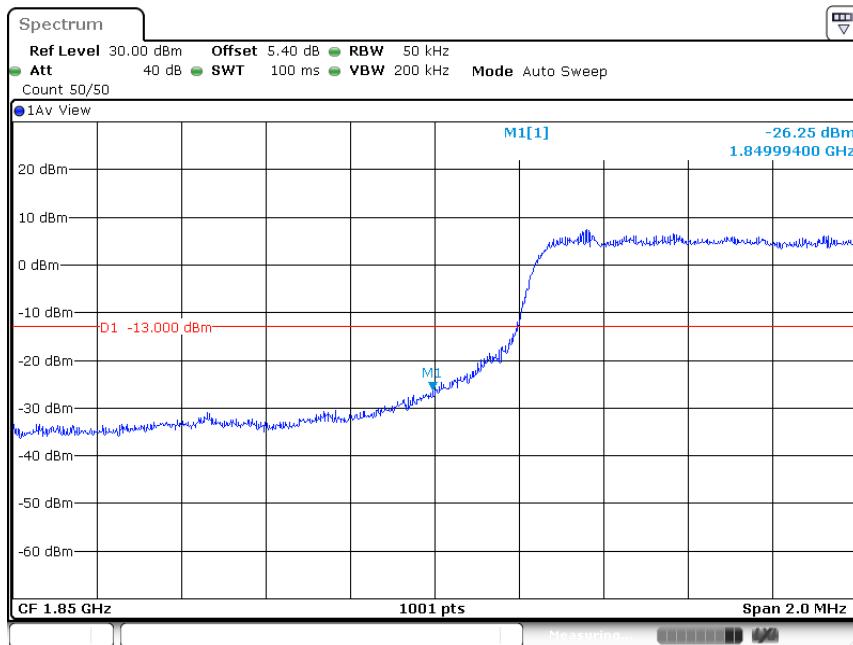
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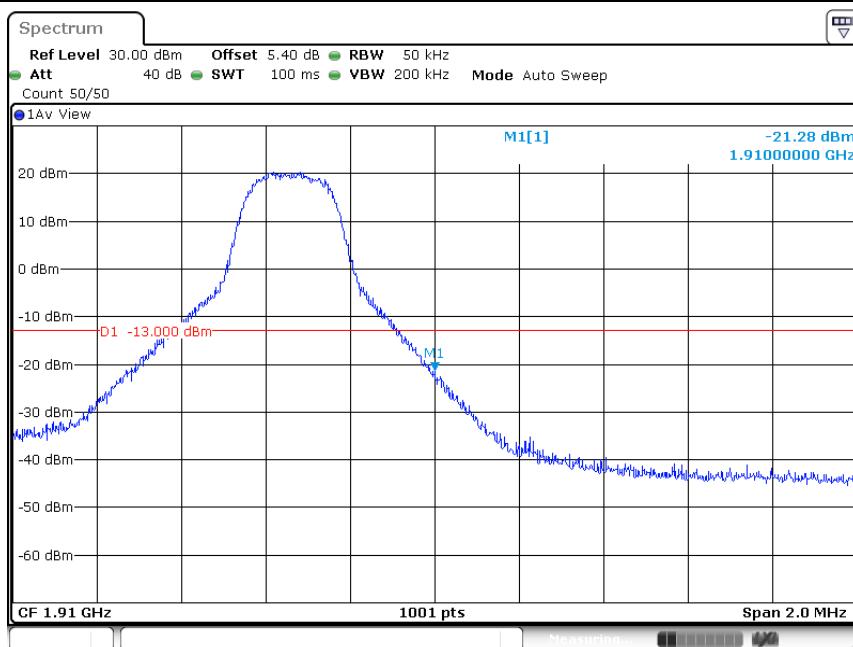
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## Band2-5MHz-QPSK-18625-25RB#0



Date: 17 NOV 2020 19:38:39

## Band2-5MHz-QPSK-19175-1RB#24



Date: 17 NOV 2020 19:39:06

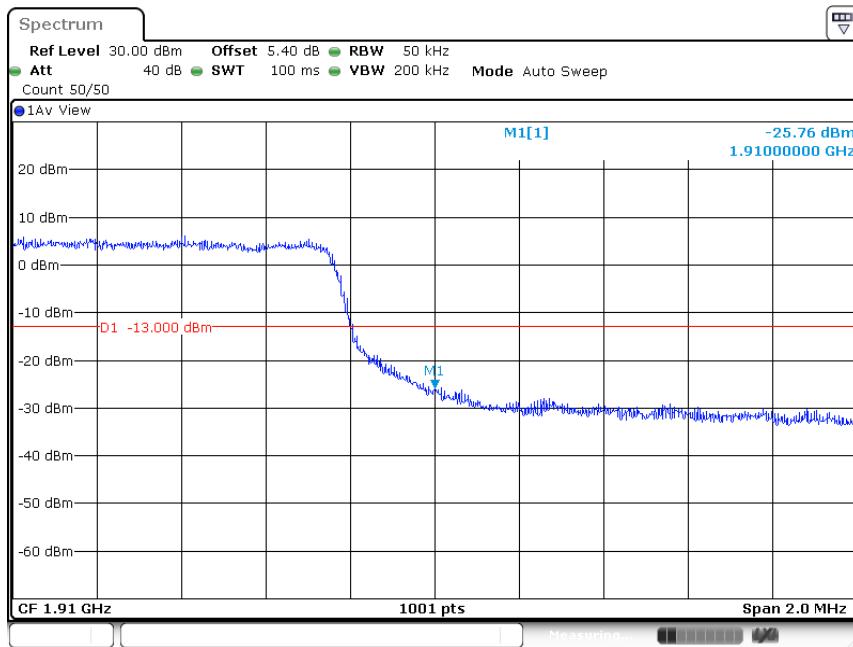
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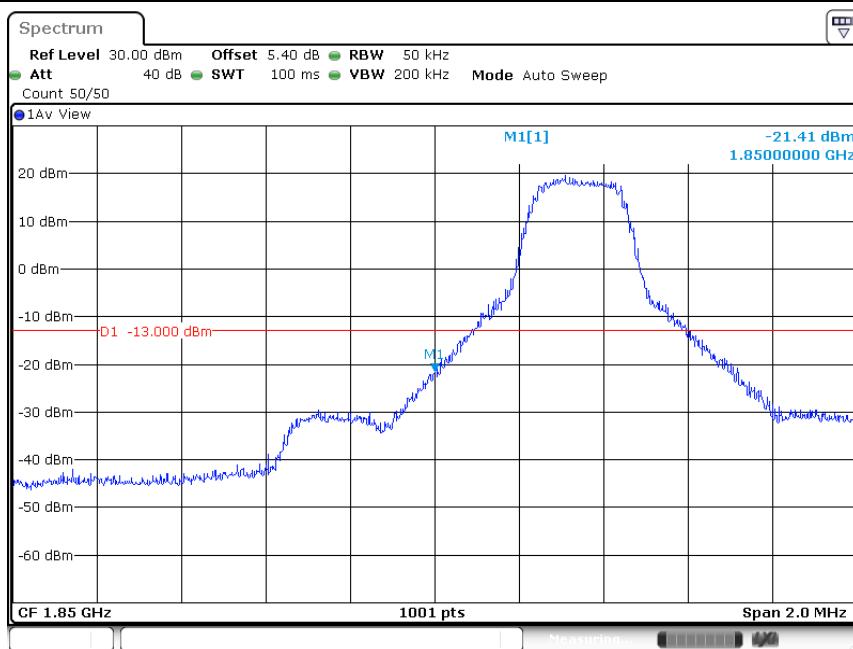
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## Band2-5MHz-QPSK-19175-25RB#0



Date: 17 NOV 2020 19:39:26

## Band2-5MHz-16QAM-18625-1RB#0



Date: 18 NOV 2020 10:59:00

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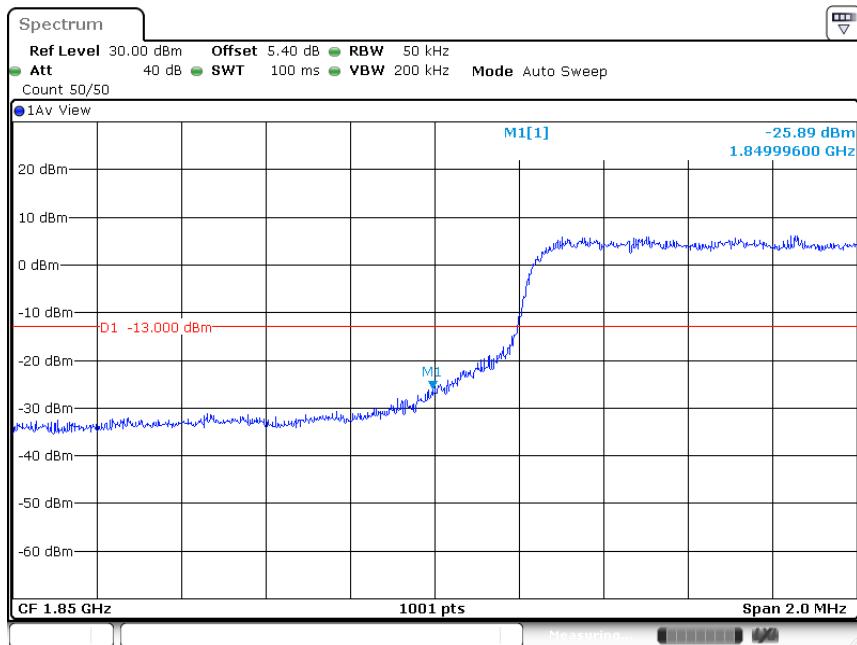
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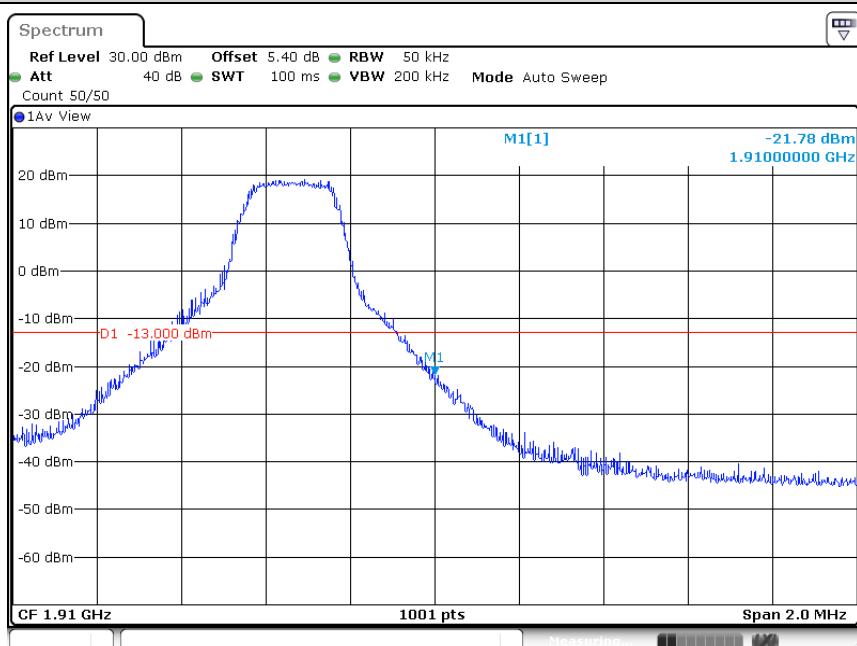


## Band2-5MHz-16QAM-18625-25RB#0



Date: 18 NOV 2020 10:59:20

## Band2-5MHz-16QAM-19175-1RB#24



Date: 18 NOV 2020 10:59:47

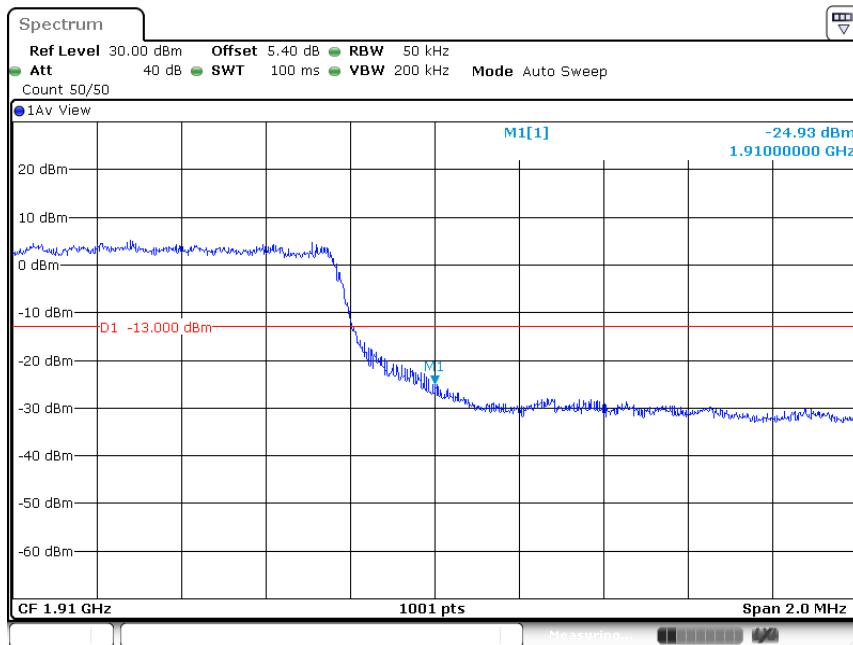
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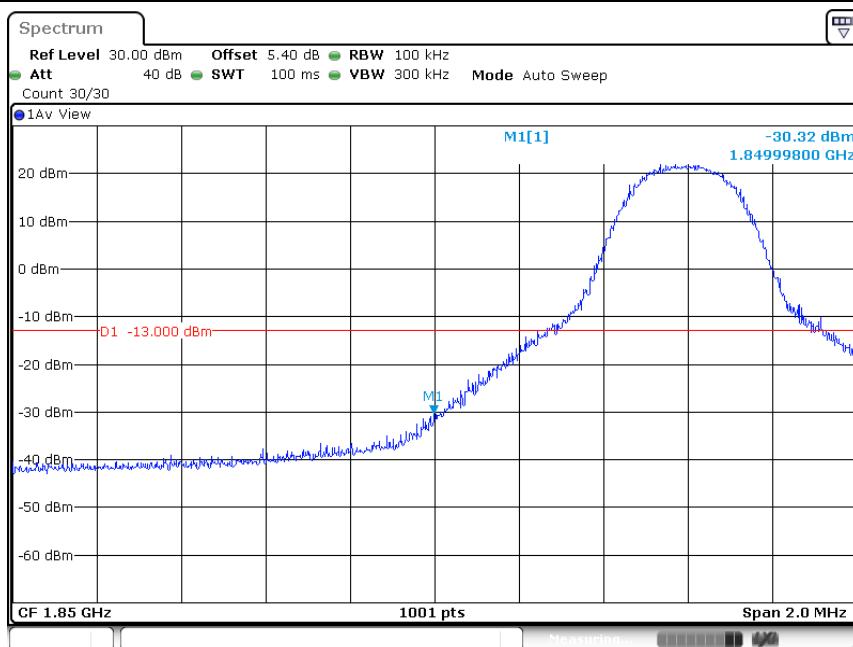
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## Band2-5MHz-16QAM-19175-25RB#0



Date: 18 NOV 2020 11:00:07

## Band2-10MHz-QPSK-18650-1RB#0



Date: 23 NOV 2020 20:29:20

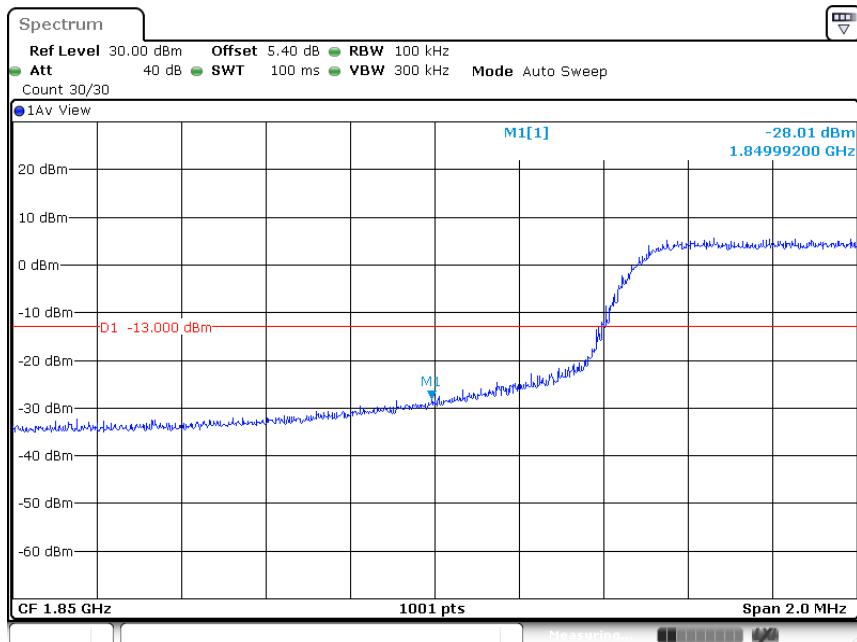
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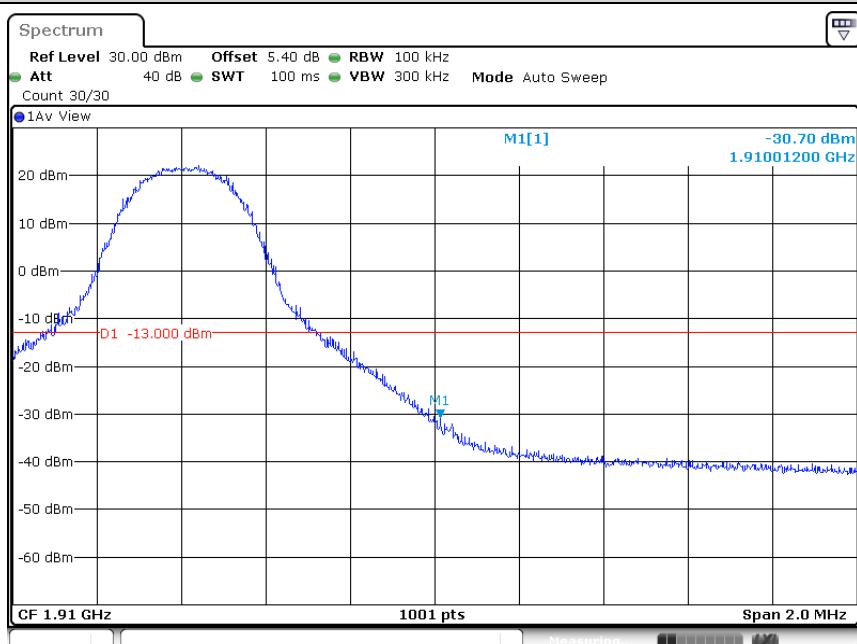
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## Band2-10MHz-QPSK-18650-50RB#0



Date: 23 NOV 2020 20:29:33

## Band2-10MHz-QPSK-19150-1RB#49



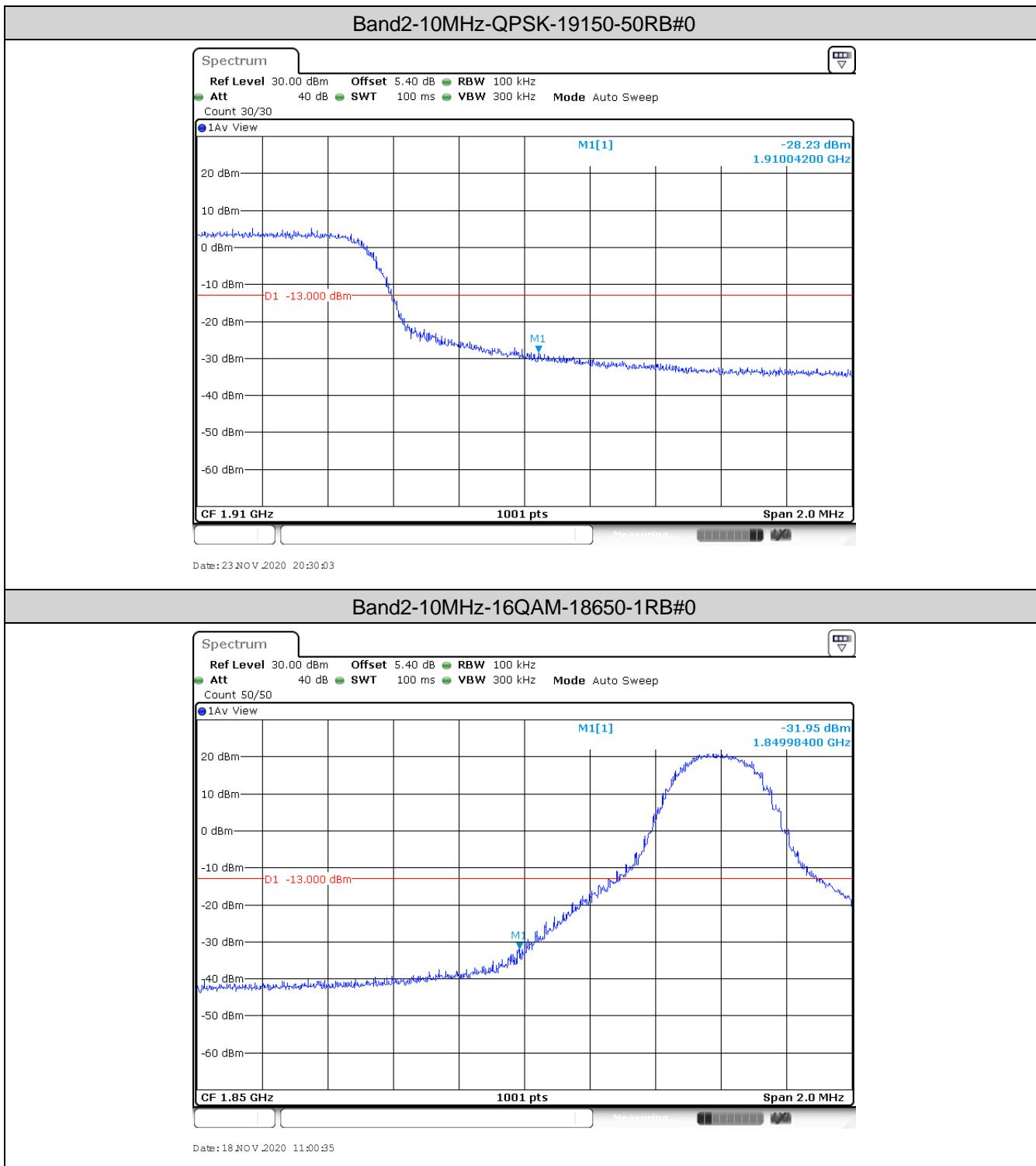
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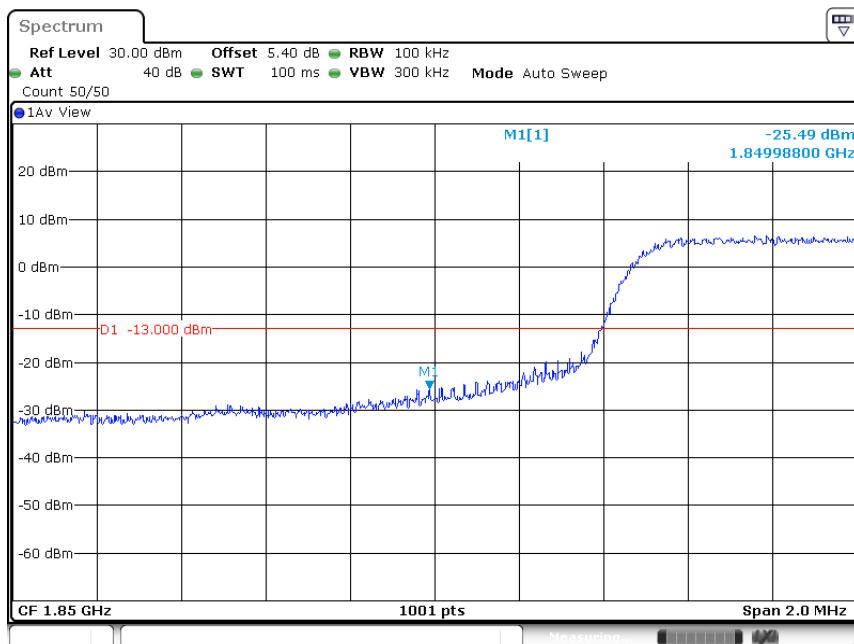
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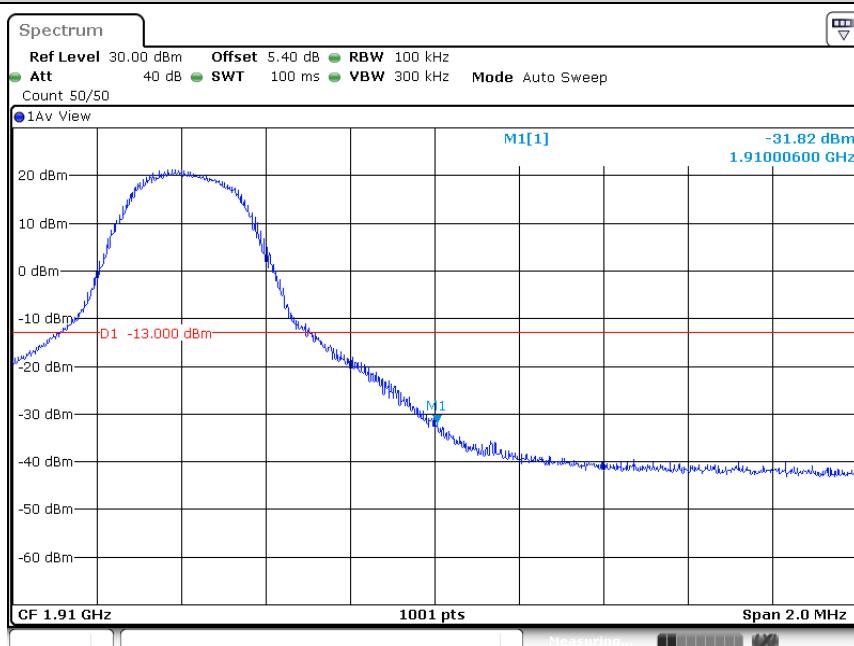
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## Band2-10MHz-16QAM-18650-27RB#0



Date: 18 NOV 2020 11:00:55

## Band2-10MHz-16QAM-19150-1RB#49



Date: 18 NOV 2020 11:01:22

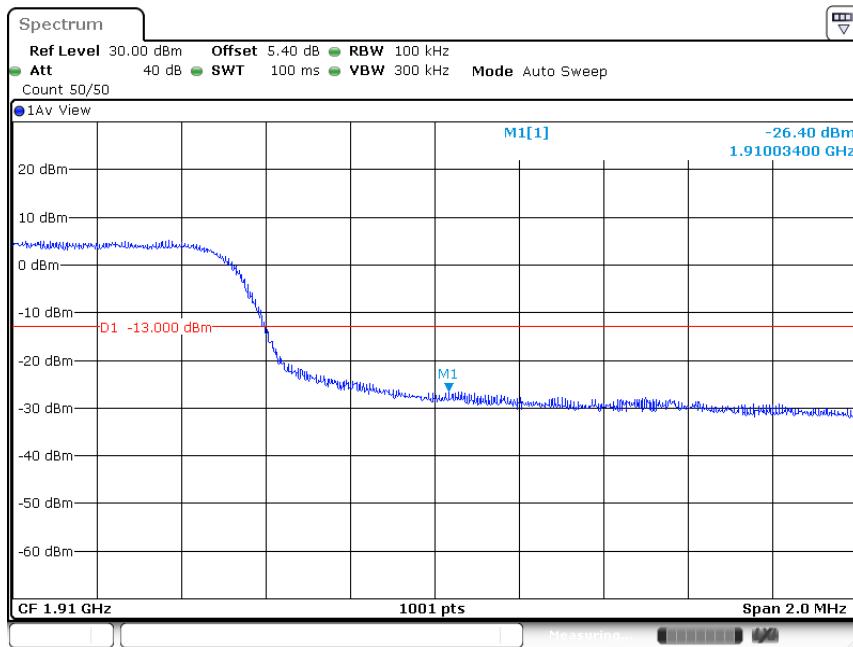
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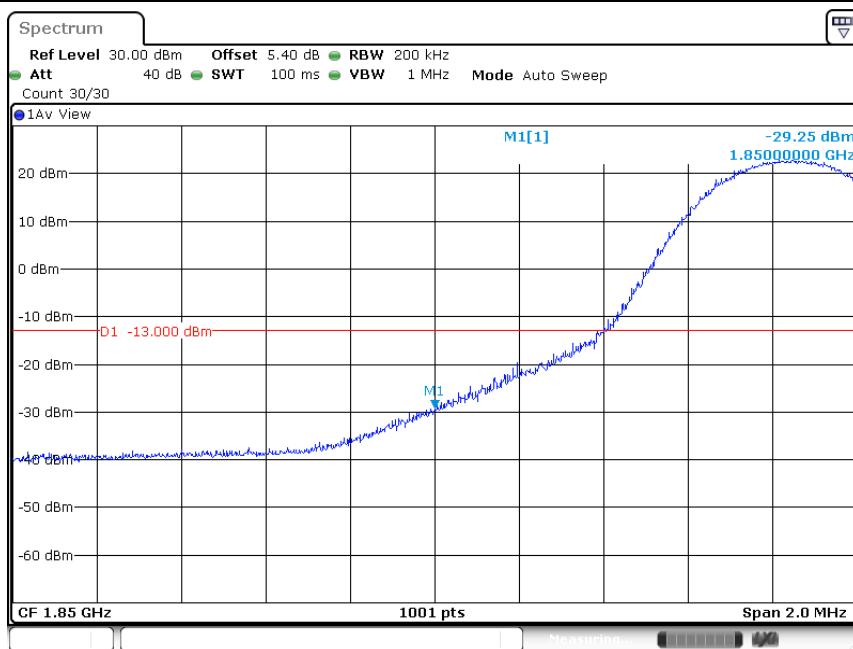
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## Band2-10MHz-16QAM-19150-27RB#23



Date: 18 NOV 2020 11:01:42

## Band2-15MHz-QPSK-18675-1RB#0



Date: 23 NOV 2020 20:30:41

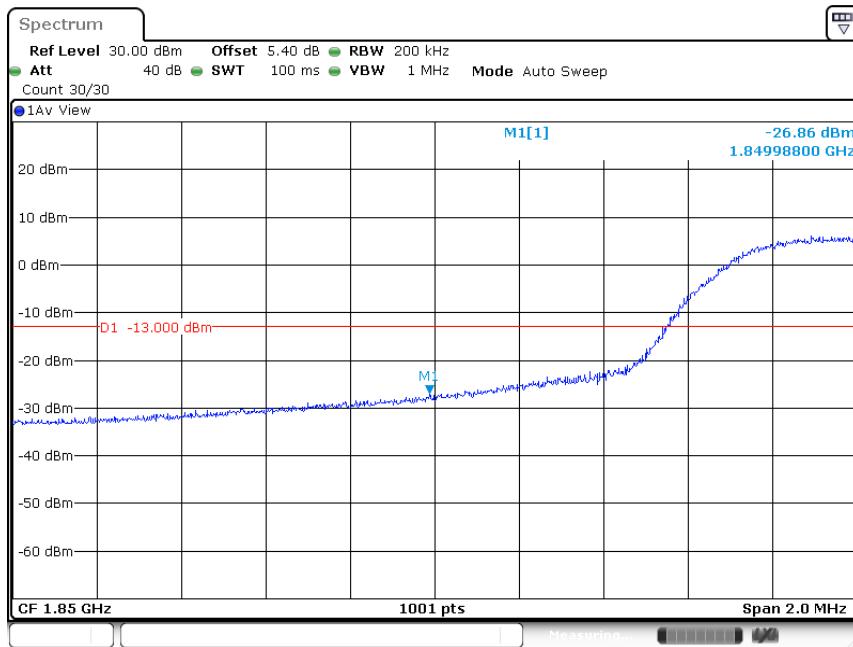
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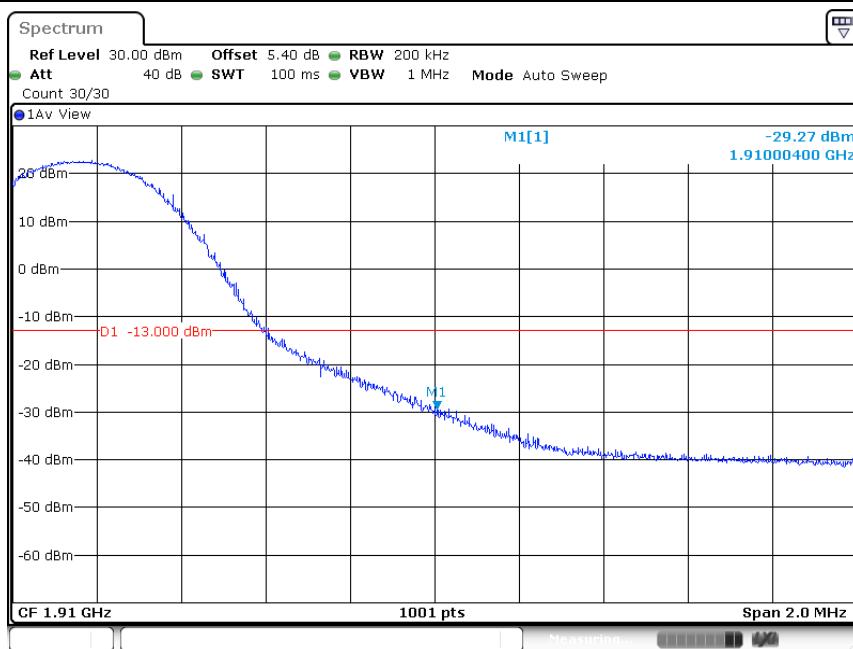
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## Band2-15MHz-QPSK-18675-75RB#0



Date: 23 NOV 2020 20:30:55

## Band2-15MHz-QPSK-19125-1RB#74



Date: 23 NOV 2020 20:31:12

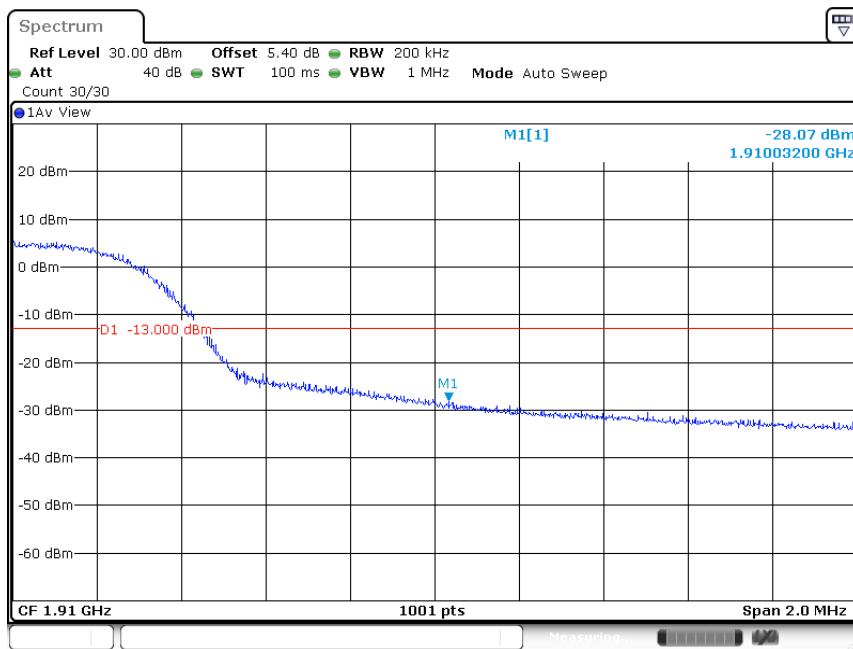
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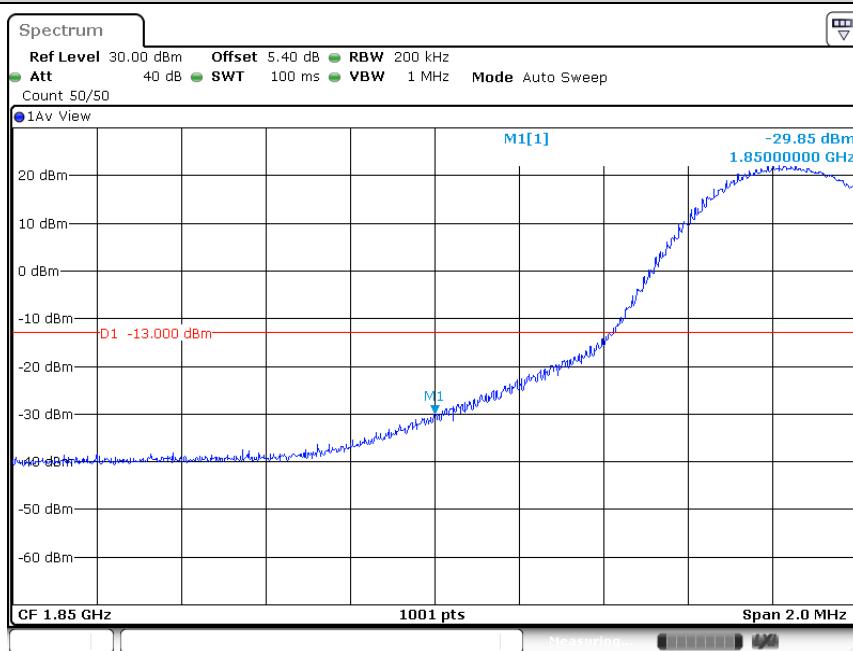
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## Band2-15MHz-QPSK-19125-75RB#0



Date: 23 NOV 2020 20:31:26

## Band2-15MHz-16QAM-18675-1RB#0



Date: 18 NOV 2020 11:02:10

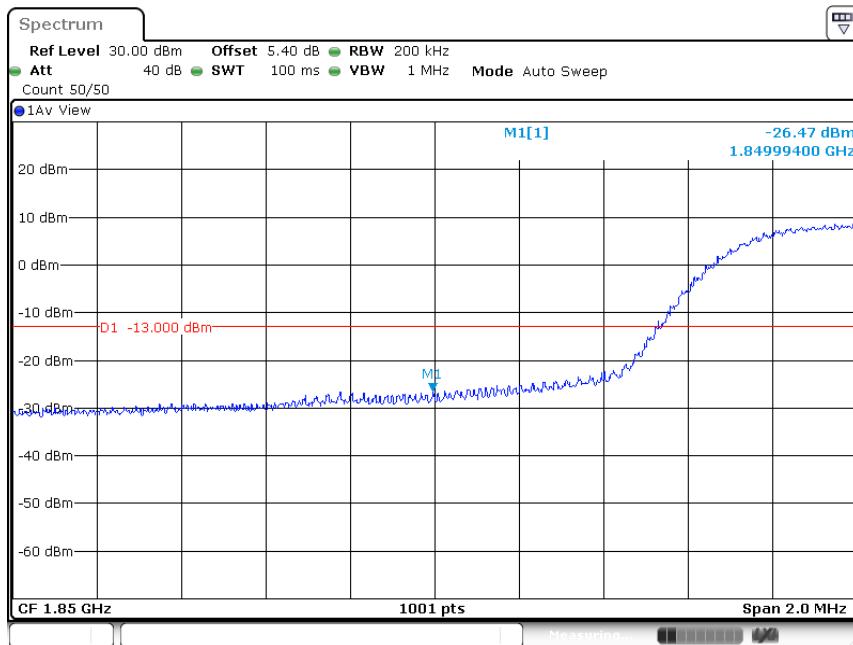
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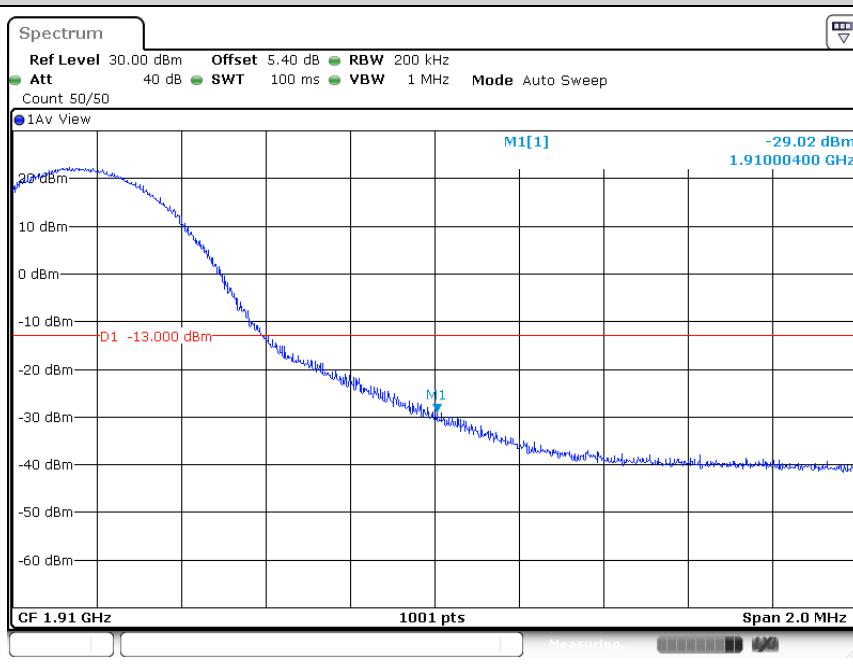


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## Band2-15MHz-16QAM-18675-27RB#0



## Band2-15MHz-16QAM-19125-1RB#74



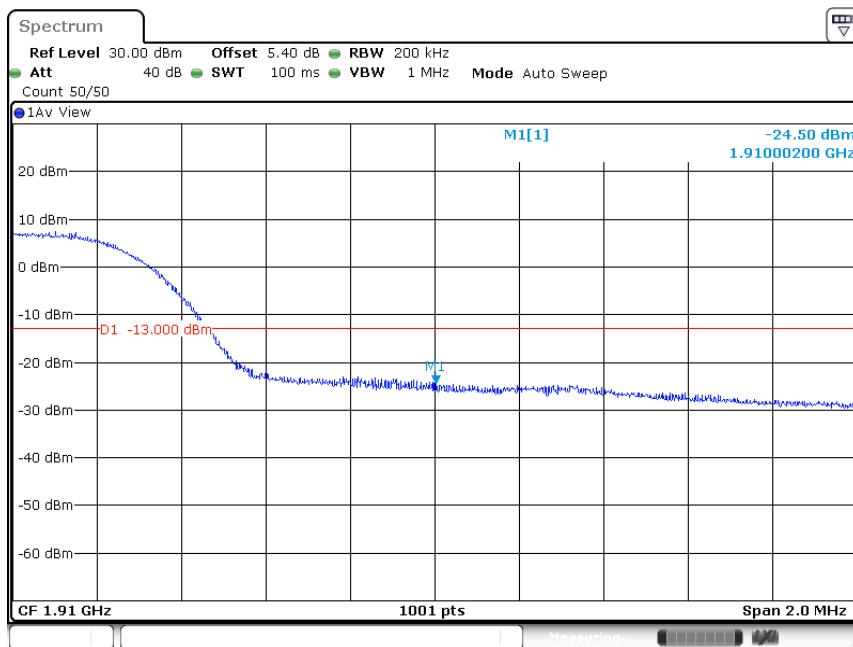
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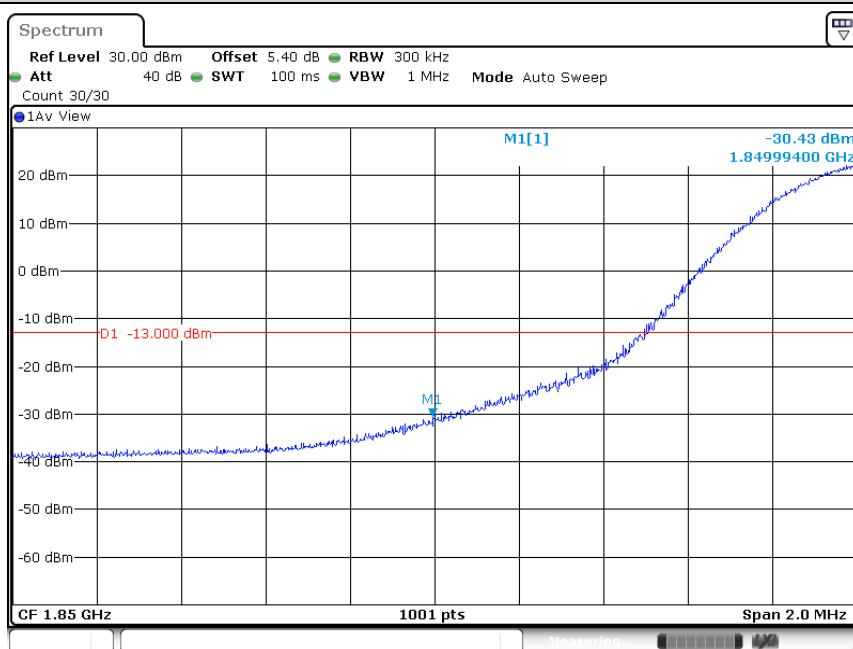
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## Band2-15MHz-16QAM-19125-27RB#48



Date: 18 NOV 2020 11:03:17

## Band2-20MHz-QPSK-18700-1RB#0



Date: 23 NOV 2020 20:32:04

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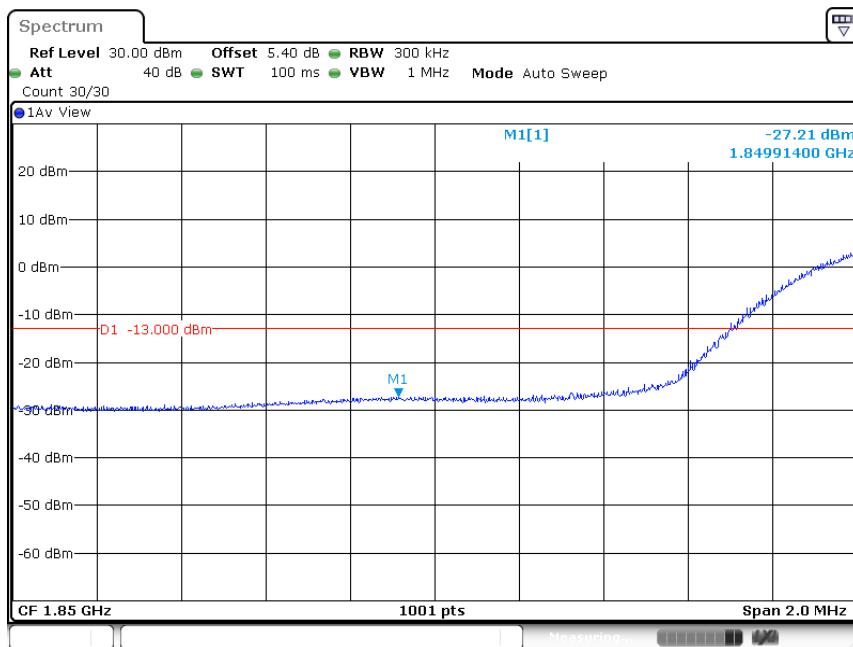
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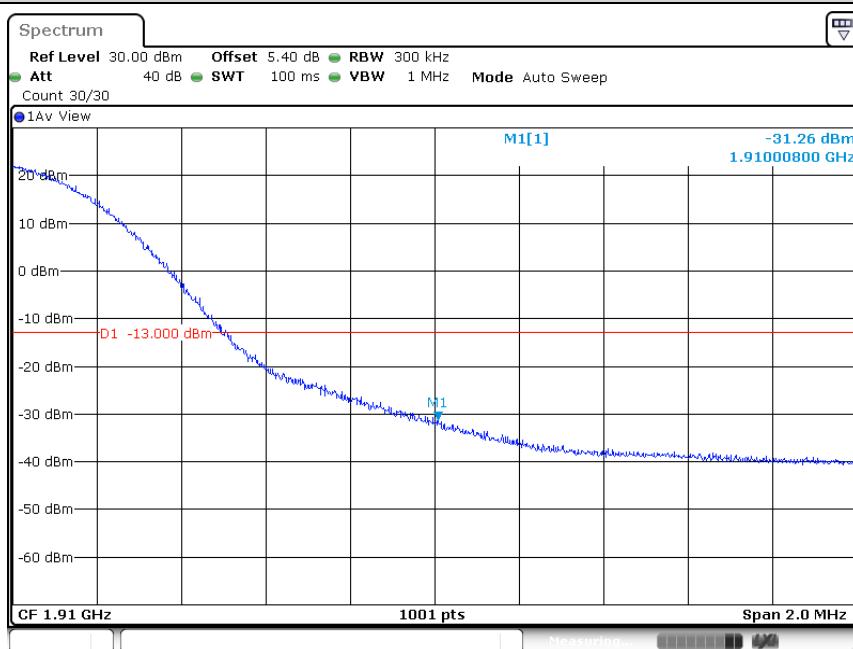
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## Band2-20MHz-QPSK-18700-100RB#0



Date: 23 NOV 2020 20:32:17

## Band2-20MHz-QPSK-19100-1RB#99



Date: 23 NOV 2020 20:32:35

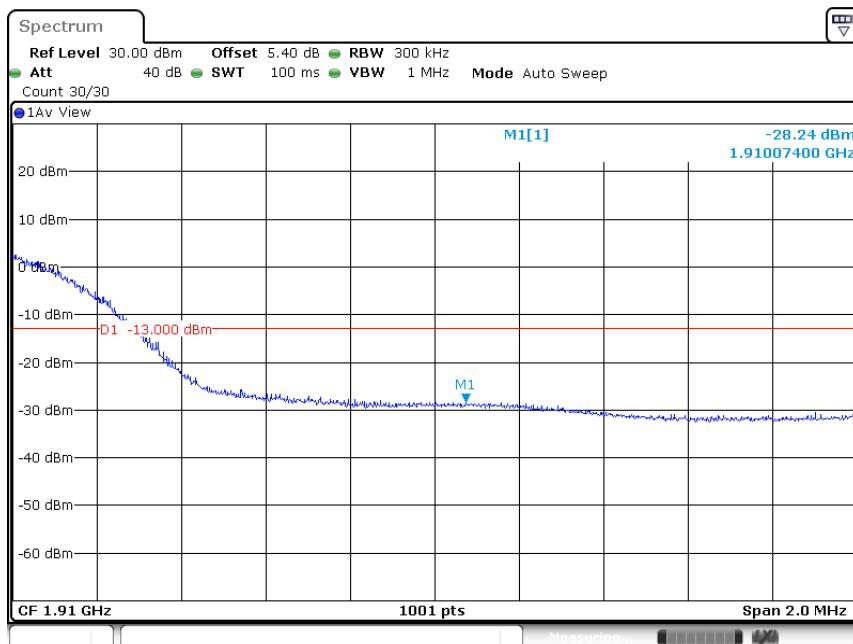
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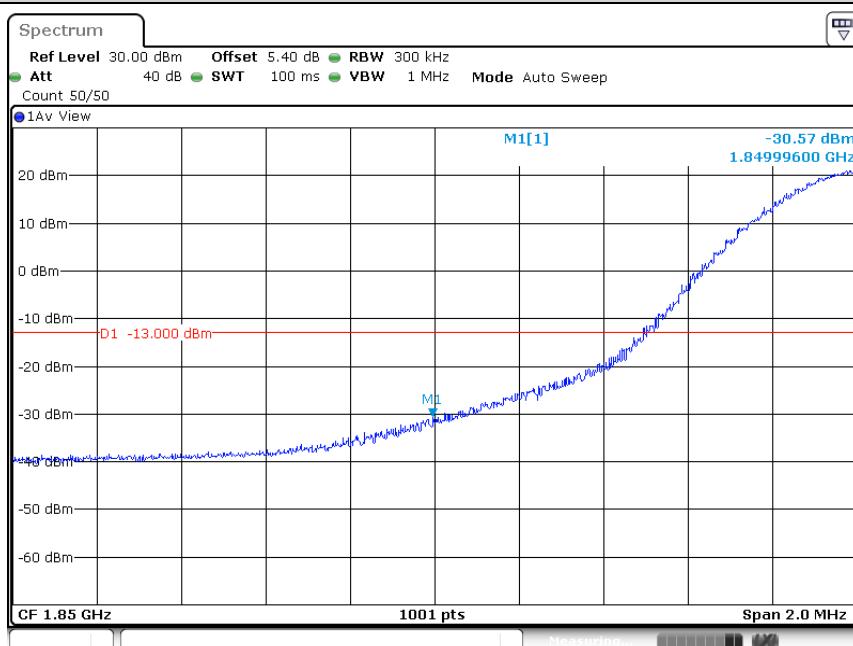
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## Band2-20MHz-QPSK-19100-100RB#0



Date: 23 NOV 2020 20:32:48

## Band2-20MHz-16QAM-18700-1RB#0



Date: 18 NOV 2020 11:03:45

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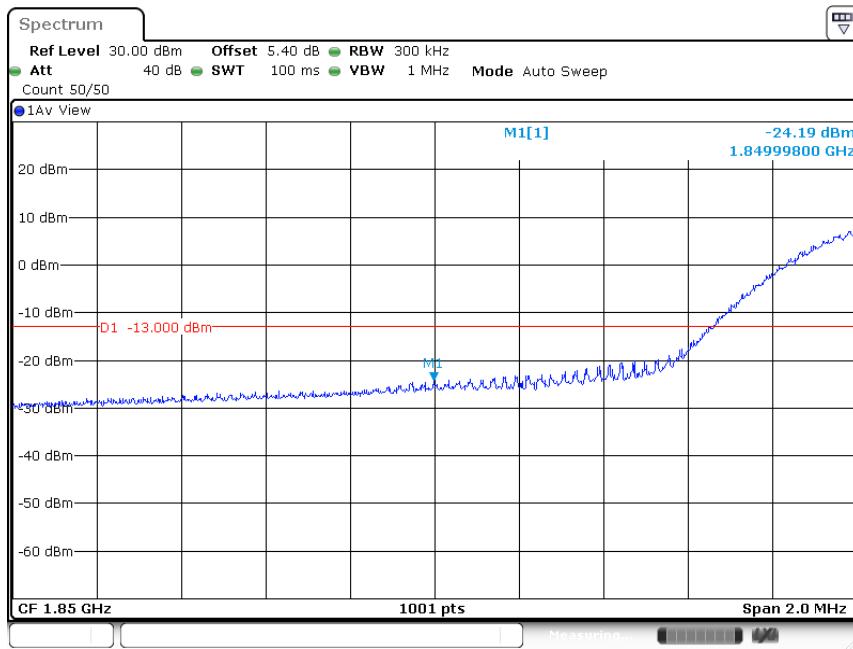
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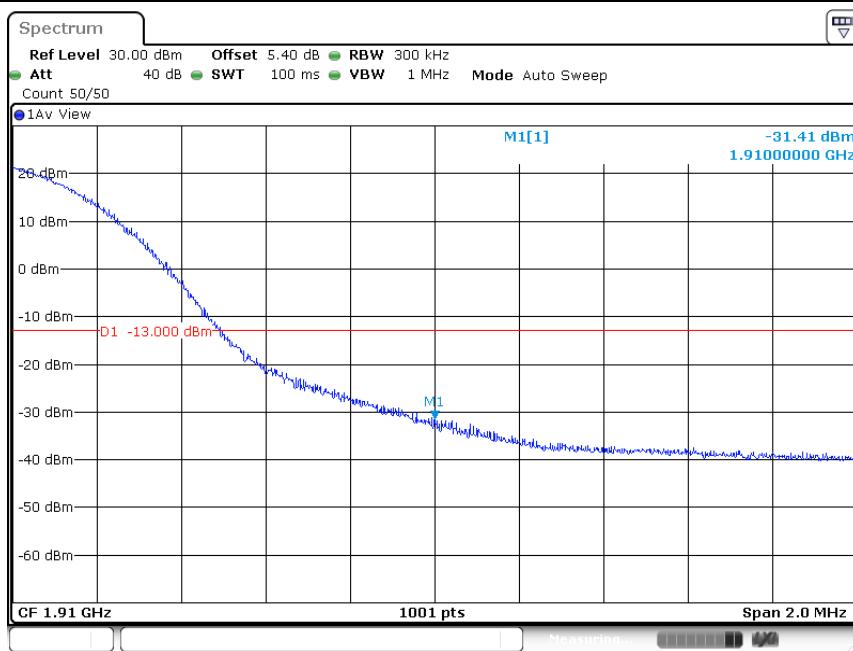
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## Band2-20MHz-16QAM-18700-27RB#0



Date: 18 NOV 2020 11:04:04

## Band2-20MHz-16QAM-19100-1RB#99



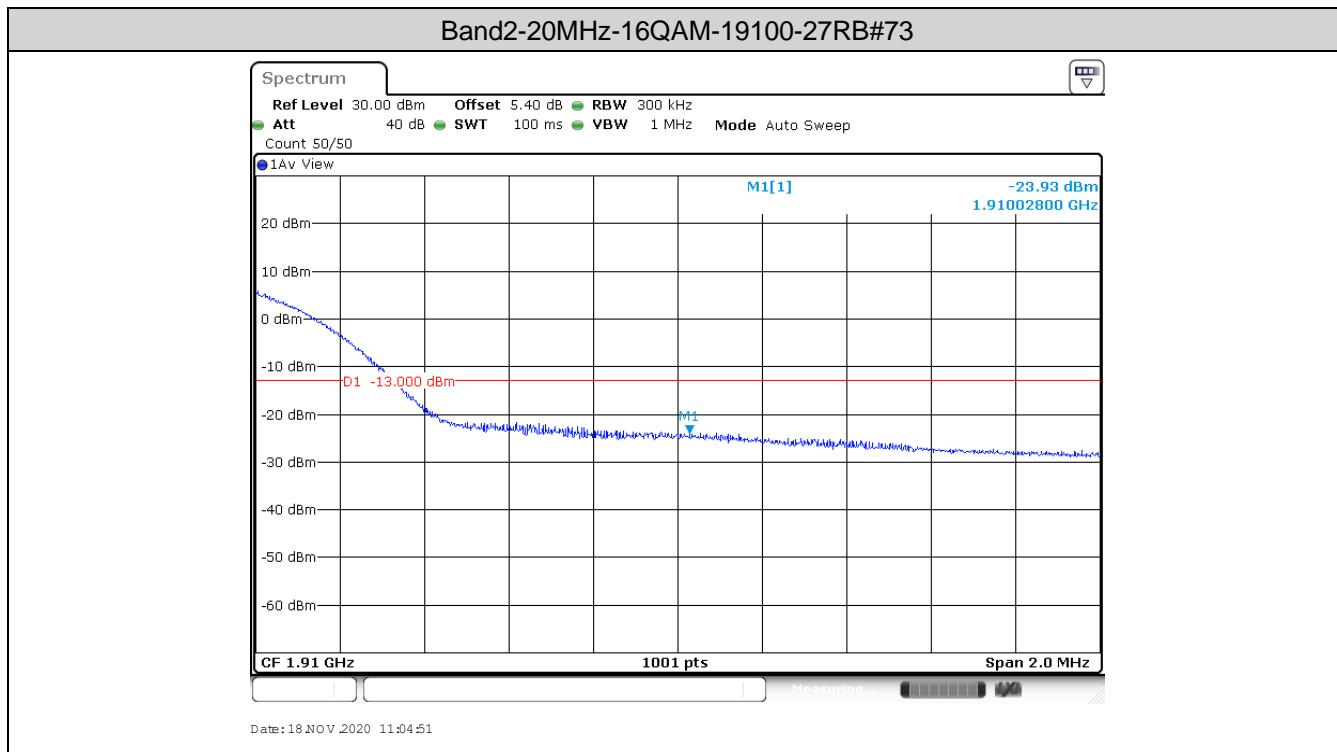
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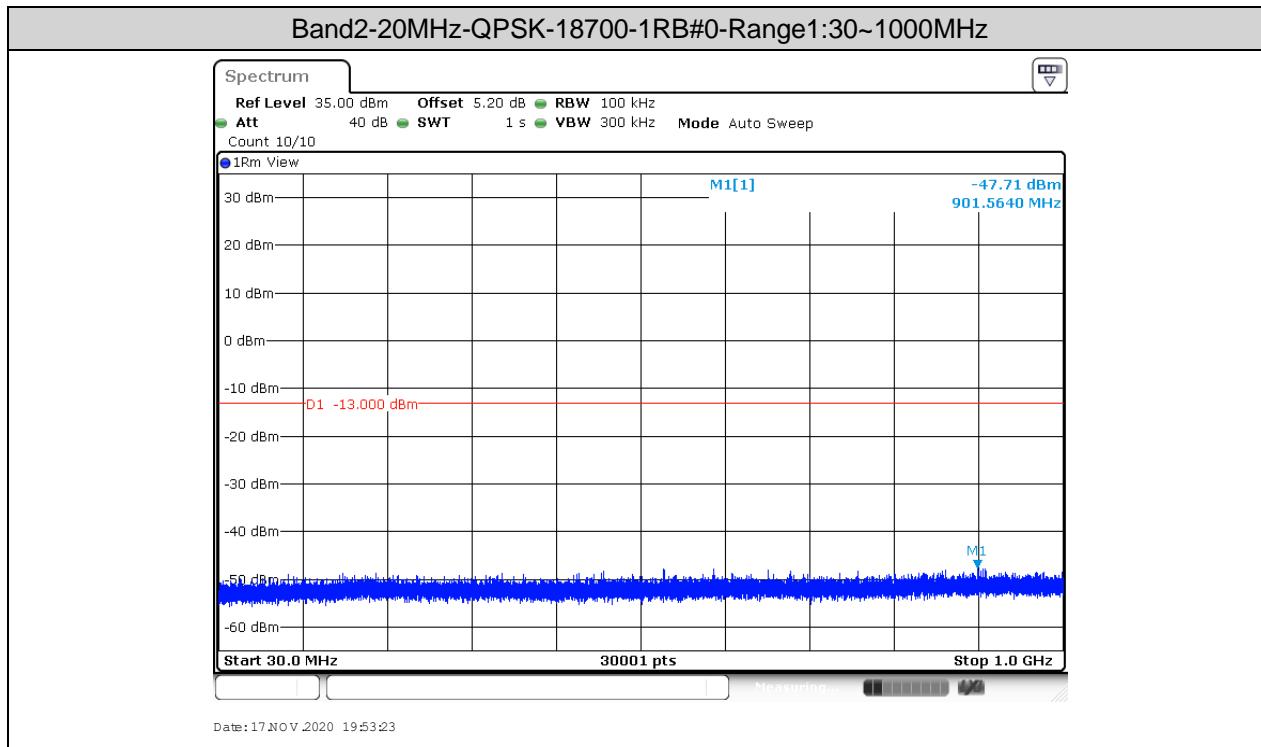
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## 6 Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " 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



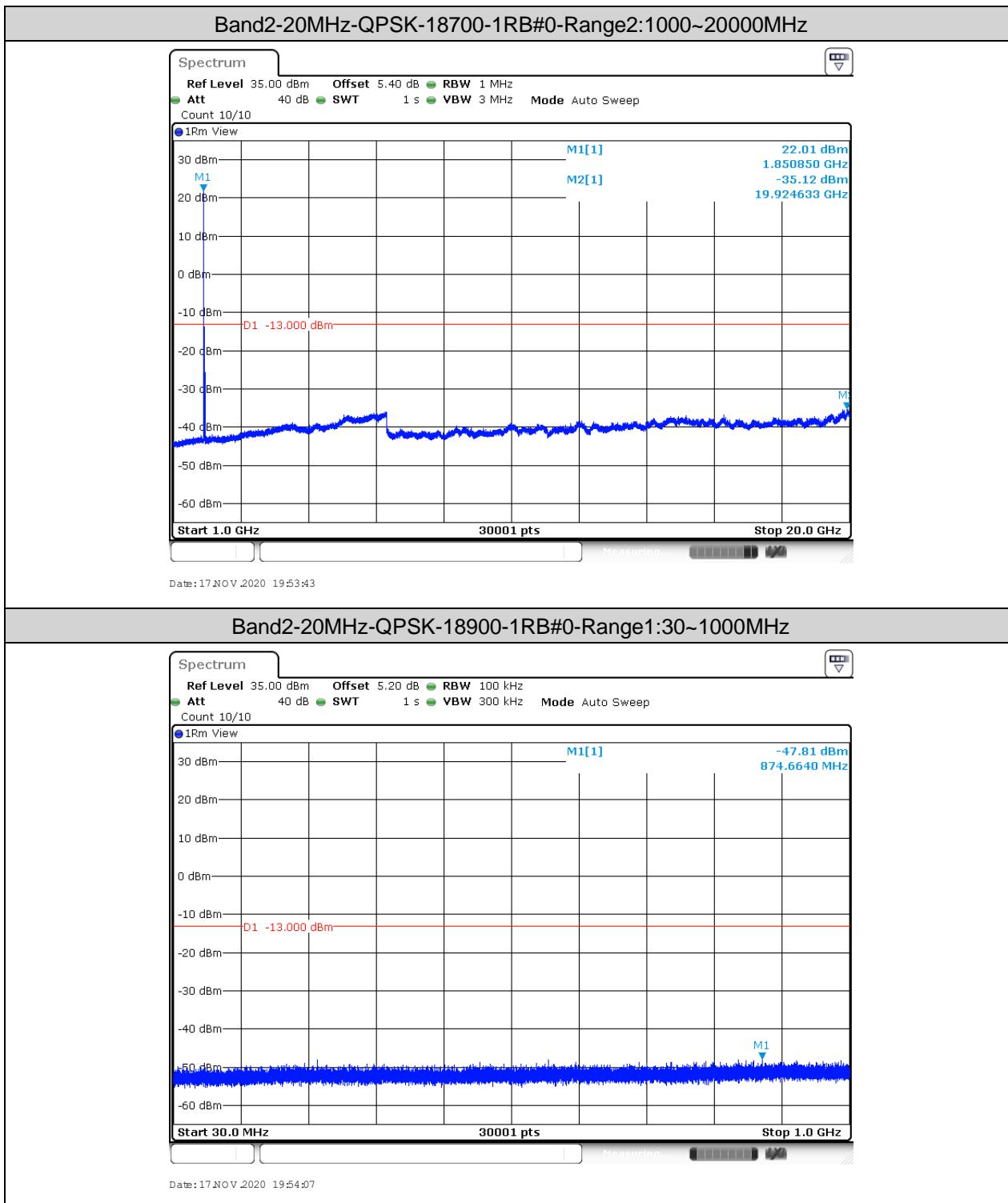
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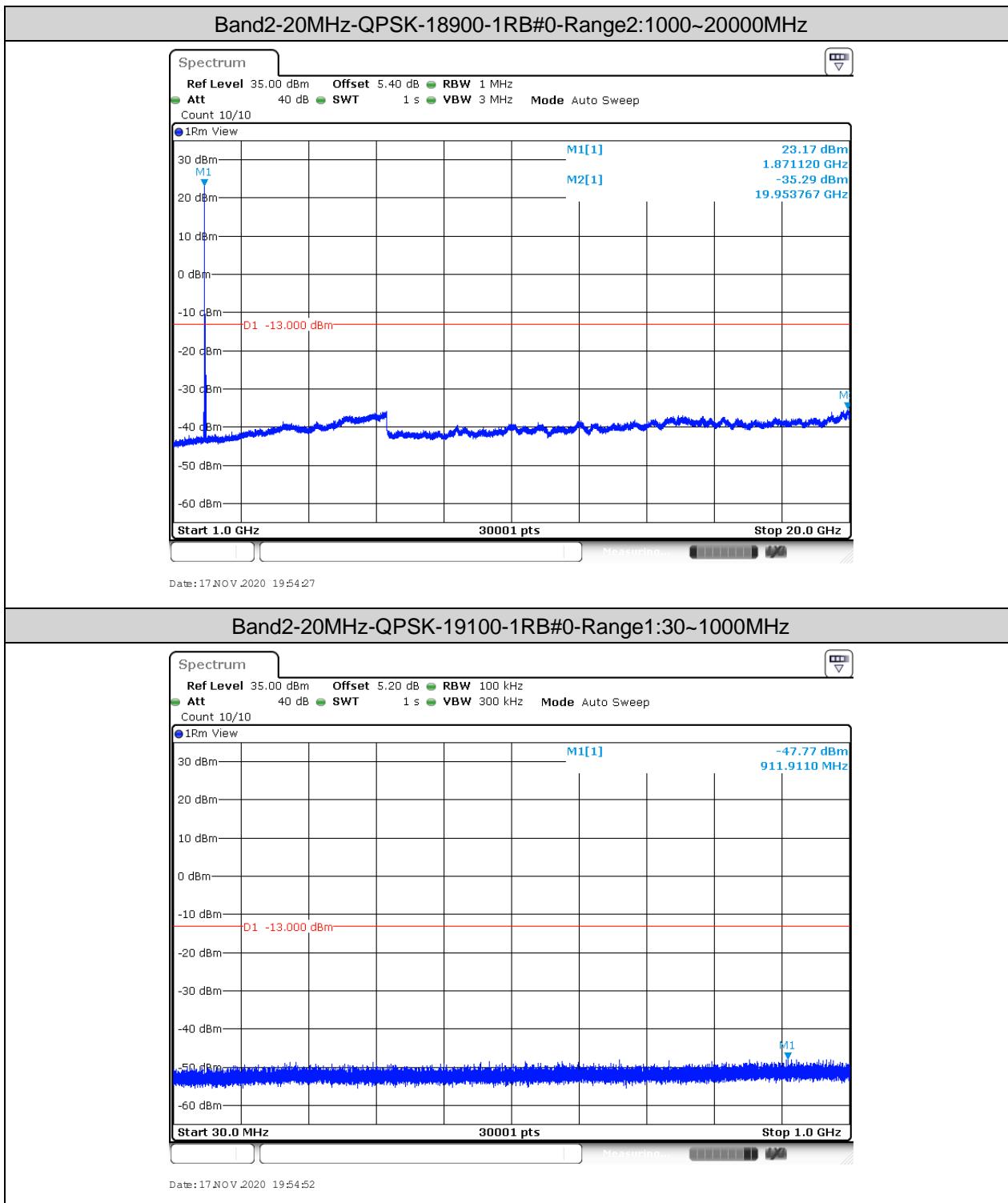
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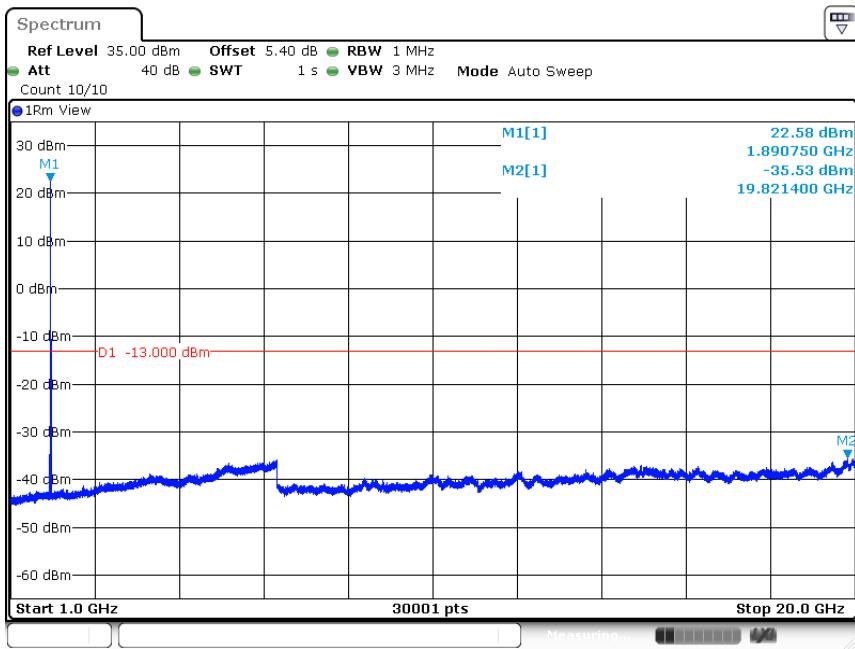
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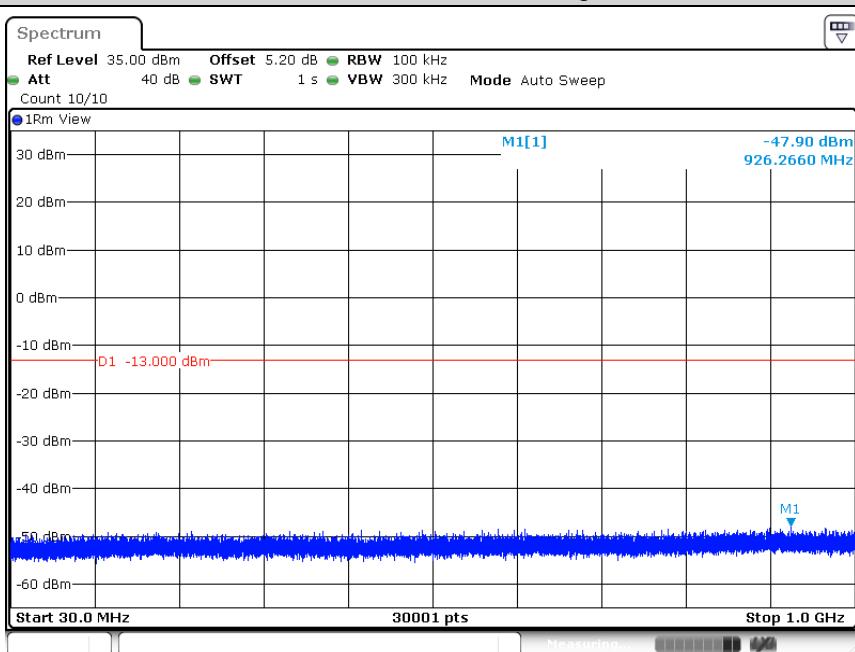
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## Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



## Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



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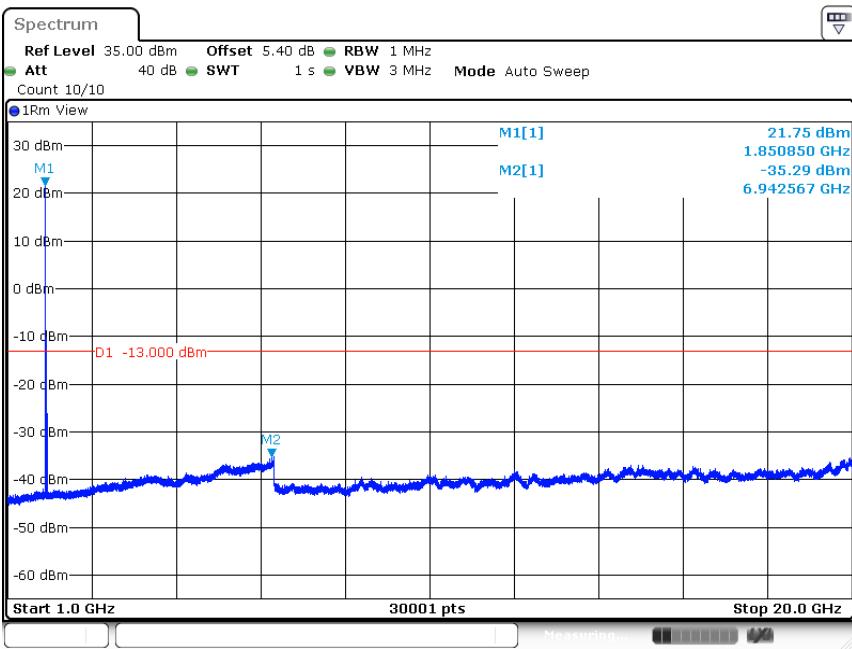
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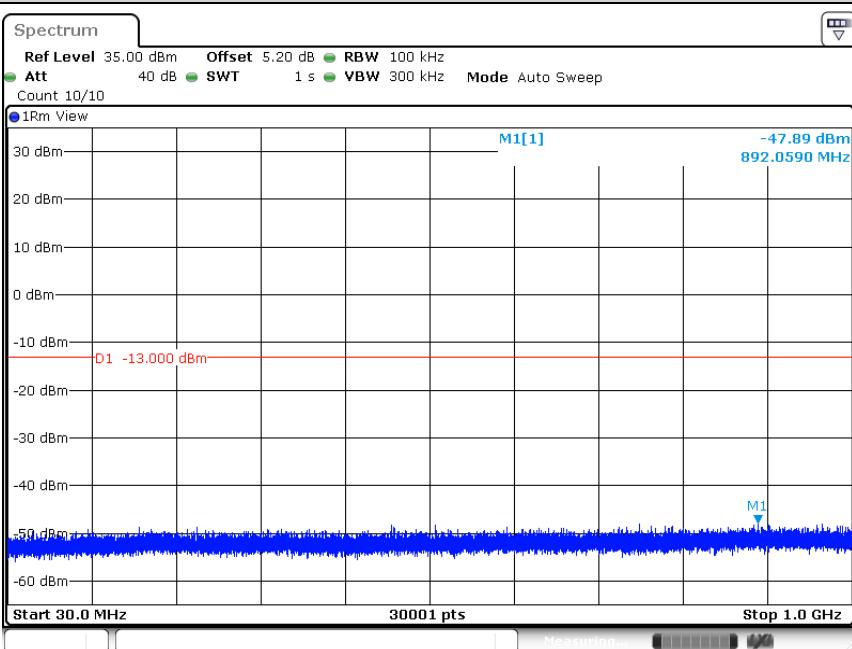
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## Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz



## Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



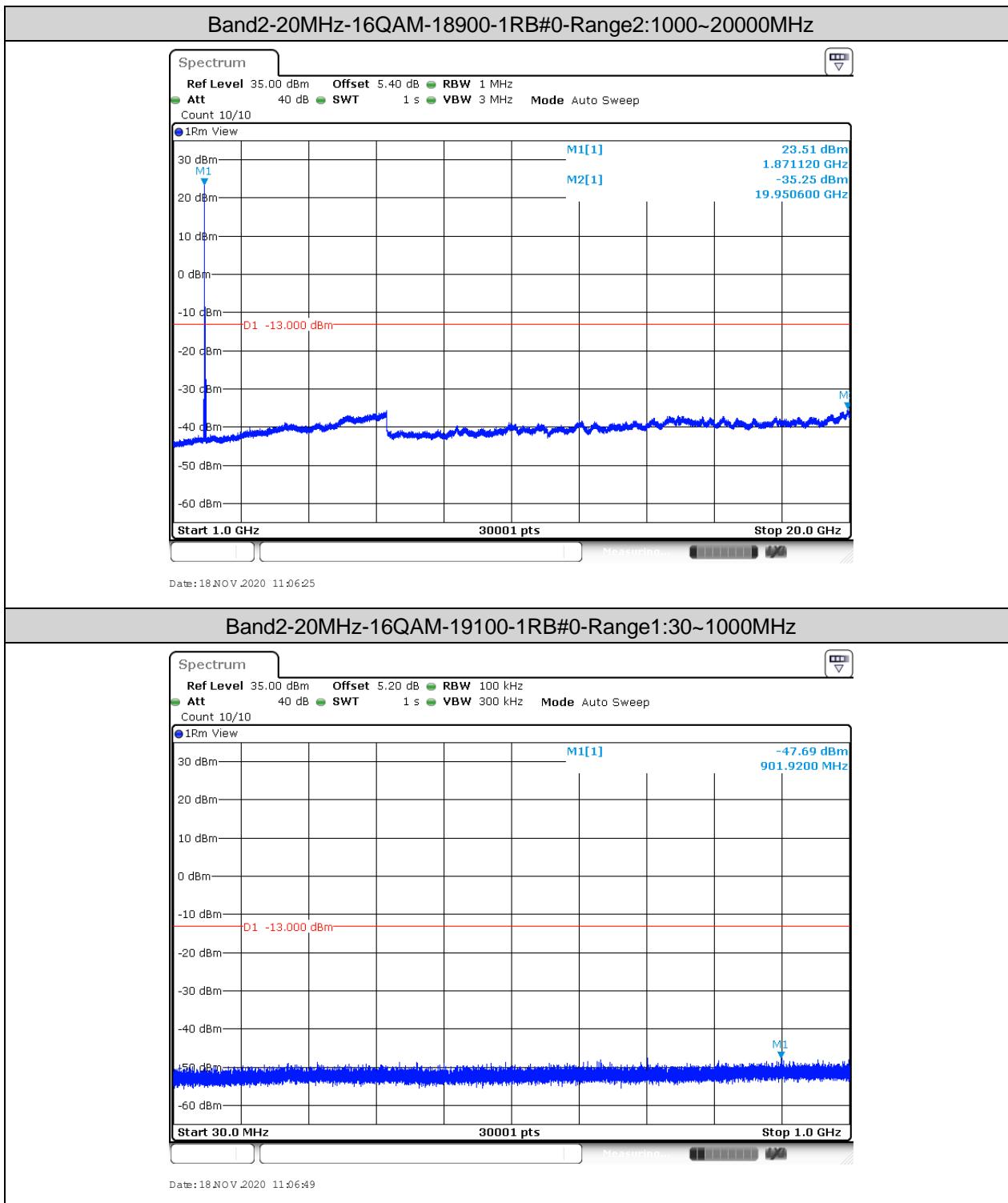
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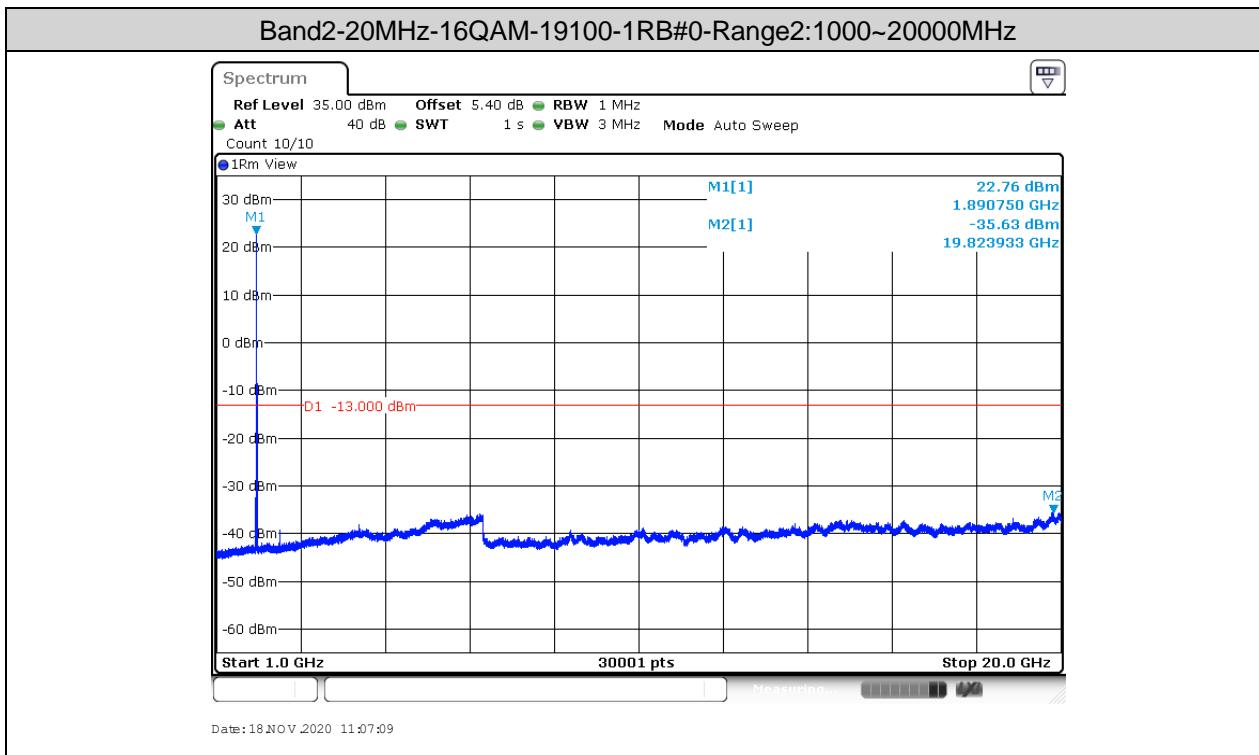
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## 7 Field Strength of Spurious Radiation

### 7.1 Test Mode =LTE/TM1 20MHz

#### 7.1.1 Test Channel = LCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
49.4010	-57.96	-13.00	44.96	163	225	Horizontal
119.4385	-67.26	-13.00	54.26	111	289	Horizontal
231.1396	-67.26	-13.00	54.26	154	352	Horizontal
3702.0234	-47.94	-13.00	34.94	185	130	Horizontal
5553.0851	-56.76	-13.00	43.76	166	4	Horizontal
16399.4466	-43.84	-13.00	30.84	203	352	Horizontal
30.1940	-62.77	-13.00	49.77	184	194	Vertical
77.8719	-58.44	-13.00	45.44	285	194	Vertical
377.8109	-67.85	-13.00	54.85	122	352	Vertical
3702.5234	-47.54	-13.00	34.54	169	289	Vertical
5553.0851	-56.31	-13.00	43.31	211	67	Vertical
17997.4999	-40.71	-13.00	27.71	296	352	Vertical

#### 7.1.2 Test Channel = MCH

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
47.3154	-58.49	-13.00	45.49	186	194	Horizontal
120.9906	-67.03	-13.00	54.03	111	257	Horizontal
235.4563	-66.46	-13.00	53.46	139	162	Horizontal
3742.0247	-49.80	-13.00	36.80	174	321	Horizontal
5613.0871	-57.27	-13.00	44.27	188	352	Horizontal
16399.4466	-44.45	-13.00	31.45	215	321	Horizontal
30.3880	-64.10	-13.00	51.10	166	67	Vertical
119.2930	-60.93	-13.00	47.93	137	352	Vertical
427.2834	-67.28	-13.00	54.28	206	320	Vertical
3742.0247	-54.14	-13.00	41.14	118	352	Vertical
5613.5871	-56.22	-13.00	43.22	175	162	Vertical
17999.5000	-40.95	-13.00	27.95	251	130	Vertical

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**7.1.3 Test Channel = HCH**

Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.0914	-58.19	-13.00	45.19	222	225	Horizontal
120.5540	-66.43	-13.00	53.43	219	289	Horizontal
237.0569	-66.79	-13.00	53.79	163	320	Horizontal
3782.5261	-52.23	-13.00	39.23	111	352	Horizontal
5673.0891	-56.88	-13.00	43.88	185	352	Horizontal
16386.9462	-44.54	-13.00	31.54	169	257	Horizontal
51.3896	-58.12	-13.00	45.12	263	257	Vertical
119.2445	-60.66	-13.00	47.66	211	352	Vertical
339.4940	-68.11	-13.00	55.11	184	162	Vertical
3782.0261	-56.39	-13.00	43.39	166	98	Vertical
5673.5891	-55.78	-13.00	42.78	194	67	Vertical
17999.5000	-40.84	-13.00	27.84	128	320	Vertical

## Remark:

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

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## 8 Frequency Stability

### 8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	-0.20	-0.000108	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-1.10	-0.000591	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-0.50	-0.000269	±2.5	PASS	
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-3.40	-0.001809	±2.5	PASS	
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-2.80	-0.001489	±2.5	PASS	
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-3.20	-0.001702	±2.5	PASS	
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-3.10	-0.001632	±2.5	PASS	
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-2.70	-0.001421	±2.5	PASS	
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-3.40	-0.001789	±2.5	PASS	
Band2	20MHz	16QAM	18700	27RB#0	VL	NT	0.40	0.000215	±2.5	PASS	
Band2	20MHz	16QAM	18700	27RB#0	VN	NT	0.20	0.000108	±2.5	PASS	
Band2	20MHz	16QAM	18700	27RB#0	VH	NT	-0.80	-0.000430	±2.5	PASS	
Band2	20MHz	16QAM	18900	27RB#0	VL	NT	-4.20	-0.002234	±2.5	PASS	
Band2	20MHz	16QAM	18900	27RB#0	VN	NT	-3.30	-0.001755	±2.5	PASS	
Band2	20MHz	16QAM	18900	27RB#0	VH	NT	-3.70	-0.001968	±2.5	PASS	
Band2	20MHz	16QAM	19100	27RB#0	VL	NT	-1.90	-0.001000	±2.5	PASS	
Band2	20MHz	16QAM	19100	27RB#0	VN	NT	-1.60	-0.000842	±2.5	PASS	
Band2	20MHz	16QAM	19100	27RB#0	VH	NT	-3.10	-0.001632	±2.5	PASS	

### 8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	2.80	0.001505	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	0.70	0.000376	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	-10	0.40	0.000215	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	0	1.20	0.000645	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	10	1.30	0.000699	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	20	0.10	0.000054	±2.5	PASS	
Band2	20MHz	QPSK	18700	100RB#0	NV	30	1.50	0.000806	±2.5	PASS	

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Band2	20MHz	QPSK	18700	100RB#0	NV	40	0.70	0.000376	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	0.70	0.000376	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-3.60	-0.001915	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-3.20	-0.001702	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-2.20	-0.001170	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-3.70	-0.001968	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-3.30	-0.001755	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-3.40	-0.001809	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-3.30	-0.001755	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.90	-0.002074	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-2.20	-0.001170	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-3.90	-0.002053	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-3.20	-0.001684	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-10	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-4.00	-0.002105	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-4.70	-0.002474	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-2.40	-0.001263	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-0.80	-0.000421	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-3.40	-0.001789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-1.80	-0.000947	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-30	1.90	0.001022	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-20	0.20	0.000108	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-10	2.20	0.001183	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	0	0.70	0.000376	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	10	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	20	0.90	0.000484	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	30	0.40	0.000215	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	40	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	50	-0.20	-0.000108	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-30	-1.30	-0.000691	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-20	-2.80	-0.001489	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-10	-3.40	-0.001809	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	0	-4.60	-0.002447	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	10	-2.20	-0.001170	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	20	-3.50	-0.001862	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	30	-4.30	-0.002287	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	40	-2.70	-0.001436	±2.5	PASS

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Band2	20MHz	16QAM	18900	27RB#0	NV	50	-3.90	-0.002074	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-30	-3.00	-0.001579	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-20	-2.30	-0.001211	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-10	-3.80	-0.002000	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	0	-2.90	-0.001526	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	10	-1.40	-0.000737	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	20	-2.10	-0.001105	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	30	-3.20	-0.001684	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	40	-3.90	-0.002053	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	50	-3.30	-0.001737	±2.5	PASS

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The End

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