



# Appendix B

## E-UTRA Band 66



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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
Band66	1.4MHz	QPSK	131979	1RB#0	22.15	22.75	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.14	22.74	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.09	22.69	30	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	22.17	22.77	30	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	22.22	22.82	30	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	22.19	22.79	30	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.16	21.76	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.34	22.94	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.35	22.95	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.43	23.03	30	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.39	22.99	30	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	22.37	22.97	30	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	22.38	22.98	30	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.30	21.90	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.12	22.72	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.35	22.95	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.26	22.86	30	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.22	22.82	30	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	22.23	22.83	30	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	22.38	22.98	30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.35	21.95	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	20.97	21.57	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	21.01	21.61	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.02	21.62	30	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	20.96	21.56	30	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	21.31	21.91	30	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.20	21.80	30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.11	20.71	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.25	21.85	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.25	21.85	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.15	21.75	30	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	21.12	21.72	30	PASS



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Band66	1.4MHz	16QAM	132322	3RB#1	21.09	21.69	30	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	21.11	21.71	30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.04	20.64	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.31	21.91	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.18	21.78	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.17	21.77	30	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	21.38	21.98	30	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.36	21.96	30	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.18	21.78	30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.34	20.94	30	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.19	22.79	30	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.24	22.84	30	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.08	22.68	30	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.35	21.95	30	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.18	21.78	30	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.32	21.92	30	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.23	21.83	30	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.43	23.03	30	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.48	23.08	30	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.34	22.94	30	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.36	21.96	30	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.48	22.08	30	PASS
Band66	3MHz	QPSK	132322	8RB#7	21.39	21.99	30	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.34	21.94	30	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.17	22.77	30	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.19	22.79	30	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.32	22.92	30	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.46	22.06	30	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.19	21.79	30	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.24	21.84	30	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.40	22.00	30	PASS
Band66	3MHz	16QAM	131987	1RB#0	20.97	21.57	30	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.06	21.66	30	PASS
Band66	3MHz	16QAM	131987	1RB#14	20.86	21.46	30	PASS
Band66	3MHz	16QAM	131987	8RB#0	20.15	20.75	30	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.06	20.66	30	PASS
Band66	3MHz	16QAM	131987	8RB#7	19.92	20.52	30	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.06	20.66	30	PASS



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Band66	3MHz	16QAM	132322	1RB#0	21.33	21.93	30	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.35	21.95	30	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.32	21.92	30	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.15	20.75	30	PASS
Band66	3MHz	16QAM	132322	8RB#4	20.24	20.84	30	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.15	20.75	30	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.03	20.63	30	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.67	22.27	30	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.32	21.92	30	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.10	21.70	30	PASS
Band66	3MHz	16QAM	132657	8RB#0	20.38	20.98	30	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.26	20.86	30	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.32	20.92	30	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.39	20.99	30	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.08	22.68	30	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.04	22.64	30	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.00	22.60	30	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.29	21.89	30	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.19	21.79	30	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.17	21.77	30	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.23	22.83	30	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.40	23.00	30	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.37	22.97	30	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.19	22.79	30	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.52	22.12	30	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.37	21.97	30	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.35	21.95	30	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.41	22.01	30	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.35	22.95	30	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.11	22.71	30	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.37	22.97	30	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.50	22.10	30	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.23	21.83	30	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.10	21.70	30	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.17	21.67	30	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.19	21.79	30	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.08	21.68	30	PASS
Band66	5MHz	16QAM	131997	1RB#24	20.76	21.36	30	PASS



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Band66	5MHz	16QAM	131997	12RB#0	20.15	20.75	30	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.07	20.67	30	PASS
Band66	5MHz	16QAM	131997	12RB#13	19.85	20.45	30	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.20	20.80	30	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.17	21.77	30	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.24	21.84	30	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.25	21.85	30	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.24	20.84	30	PASS
Band66	5MHz	16QAM	132322	12RB#6	20.12	20.72	30	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.19	20.79	30	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.24	20.84	30	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.44	22.04	30	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.04	21.64	30	PASS
Band66	5MHz	16QAM	132647	1RB#24	20.96	21.56	30	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.59	21.19	30	PASS
Band66	5MHz	16QAM	132647	12RB#6	20.35	20.95	30	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.14	20.74	30	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.43	21.03	30	PASS
Band66	10MHz	QPSK	132022	1RB#0	21.93	22.53	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.19	22.79	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	21.76	22.36	30	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.43	22.03	30	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.18	21.78	30	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.31	21.91	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.05	21.65	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.37	22.97	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.80	23.40	30	PASS
Band66	10MHz	QPSK	132322	1RB#49	21.99	22.59	30	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.72	22.32	30	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.48	22.08	30	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.46	22.06	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.16	21.76	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.24	22.84	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.57	23.17	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.01	22.61	30	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.67	22.27	30	PASS
Band66	10MHz	QPSK	132622	25RB#12	21.38	21.98	30	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.09	21.69	30	PASS



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Band66	10MHz	QPSK	132622	50RB#0	21.23	21.83	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	20.91	21.51	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	20.24	20.84	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.05	21.65	30	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.25	20.85	30	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.01	20.61	30	PASS
Band66	10MHz	16QAM	132022	25RB#25	19.91	20.51	30	PASS
Band66	10MHz	16QAM	132022	27RB#0	20.25	20.85	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.14	21.74	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.48	22.08	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	20.80	21.40	30	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.44	21.04	30	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.34	20.94	30	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.11	20.71	30	PASS
Band66	10MHz	16QAM	132322	27RB#0	20.27	20.87	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.10	21.70	30	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.58	22.18	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	20.54	21.14	30	PASS
Band66	10MHz	16QAM	132622	25RB#0	20.59	21.19	30	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.43	21.03	30	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.10	20.70	30	PASS
Band66	10MHz	16QAM	132622	27RB#0	20.40	21.00	30	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.17	22.77	30	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.28	22.88	30	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.22	22.82	30	PASS
Band66	15MHz	QPSK	132047	38RB#0	22.33	22.93	30	PASS
Band66	15MHz	QPSK	132047	38RB#18	22.41	23.01	30	PASS
Band66	15MHz	QPSK	132047	38RB#37	22.35	22.95	30	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.07	21.67	30	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.80	23.40	30	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.96	23.56	30	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.09	22.69	30	PASS
Band66	15MHz	QPSK	132322	38RB#0	22.81	23.41	30	PASS
Band66	15MHz	QPSK	132322	38RB#18	22.92	23.52	30	PASS
Band66	15MHz	QPSK	132322	38RB#37	22.47	23.07	30	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.25	21.85	30	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.64	23.24	30	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.99	23.59	30	PASS



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Band66	15MHz	QPSK	132597	1RB#74	22.20	22.80	30	PASS
Band66	15MHz	QPSK	132597	38RB#0	22.67	23.27	30	PASS
Band66	15MHz	QPSK	132597	38RB#18	22.72	23.32	30	PASS
Band66	15MHz	QPSK	132597	38RB#37	22.67	23.27	30	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.22	21.82	30	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.07	21.67	30	PASS
Band66	15MHz	16QAM	132047	1RB#38	20.67	21.27	30	PASS
Band66	15MHz	16QAM	132047	1RB#74	20.77	21.37	30	PASS
Band66	15MHz	16QAM	132047	27RB#0	20.14	20.74	30	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.57	22.17	30	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.32	21.92	30	PASS
Band66	15MHz	16QAM	132322	1RB#74	20.63	21.23	30	PASS
Band66	15MHz	16QAM	132322	27RB#0	20.47	21.07	30	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.27	21.87	30	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.75	22.35	30	PASS
Band66	15MHz	16QAM	132597	1RB#74	20.91	21.51	30	PASS
Band66	15MHz	16QAM	132597	27RB#0	20.41	21.01	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.15	22.75	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.56	23.16	30	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.36	22.96	30	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.48	22.08	30	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.55	22.15	30	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.33	21.93	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.19	21.79	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.83	23.43	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.94	23.54	30	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.59	23.19	30	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.10	22.70	30	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.57	22.17	30	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.51	22.11	30	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.26	21.86	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.54	23.14	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.99	23.59	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	21.98	22.58	30	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.72	22.32	30	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.70	22.30	30	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.11	21.71	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.22	21.82	30	PASS



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Band66	20MHz	16QAM	132072	1RB#0	20.94	21.54	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.07	21.67	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	20.93	21.53	30	PASS
Band66	20MHz	16QAM	132072	27RB#0	20.07	20.67	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.18	21.78	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.35	21.95	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	20.48	21.08	30	PASS
Band66	20MHz	16QAM	132322	27RB#0	20.57	21.17	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.32	21.92	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.69	22.29	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	20.72	21.32	30	PASS
Band66	20MHz	16QAM	132572	27RB#0	20.28	20.88	30	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

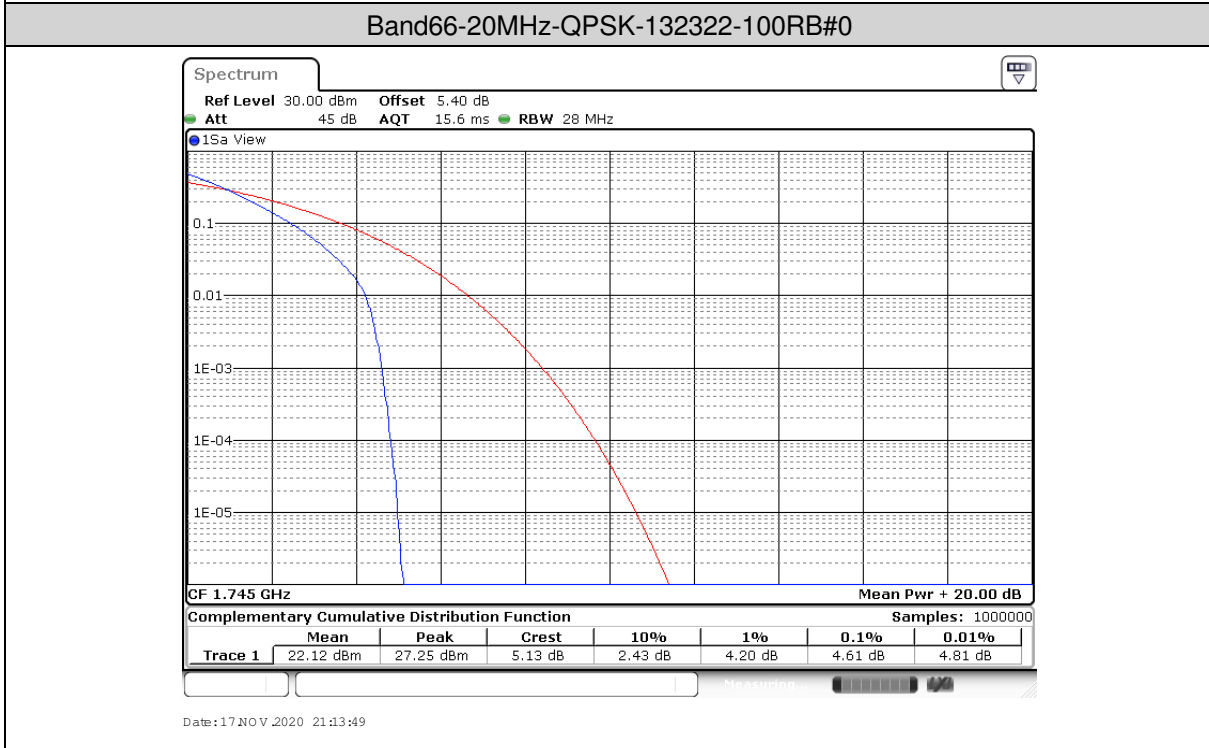
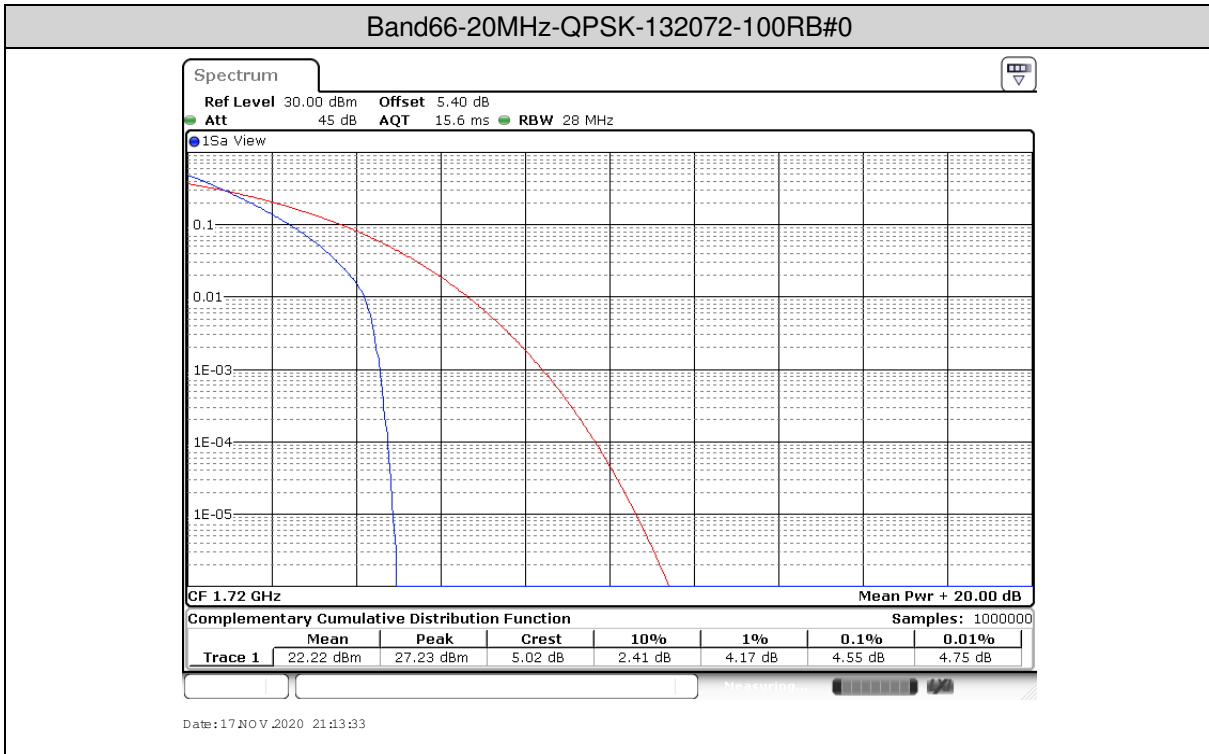
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	4.55	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.61	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.55	13	PASS
Band66	20MHz	16QAM	132072	27RB#0	5.42	13	PASS
Band66	20MHz	16QAM	132322	27RB#0	5.48	13	PASS
Band66	20MHz	16QAM	132572	27RB#0	5.36	13	PASS



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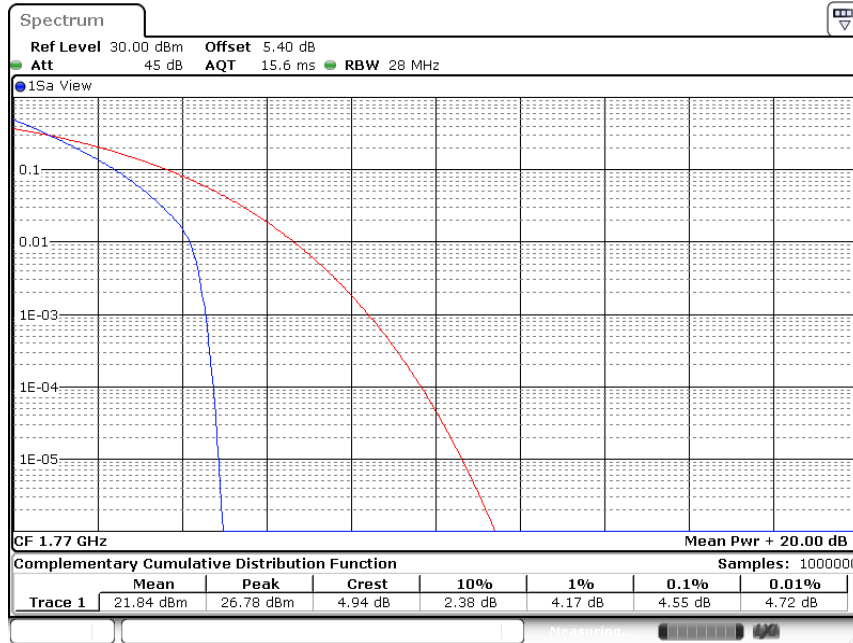
## 2.2 Test Plots



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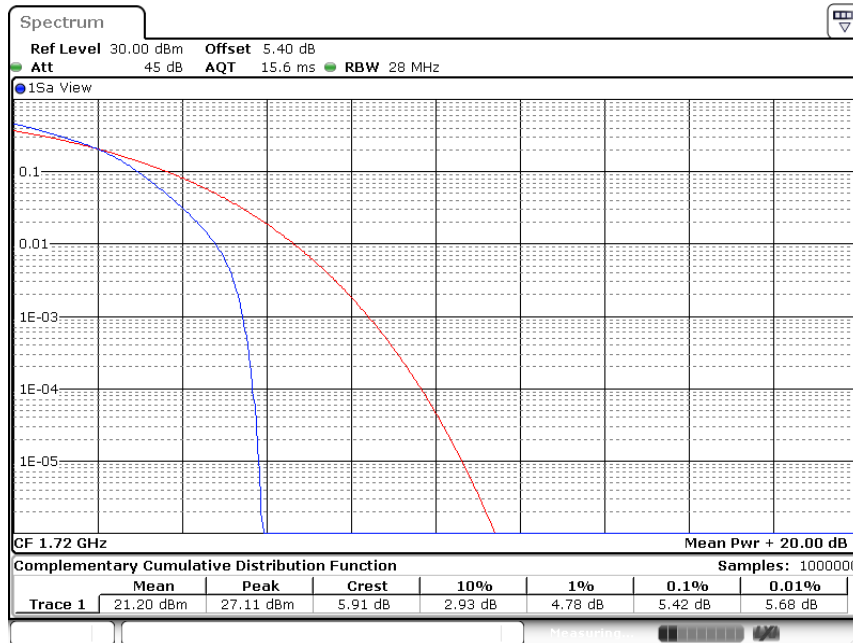
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**Band66-20MHz-QPSK-132572-100RB#0**



Date: 17 NOV 2020 21:14:06

**Band66-20MHz-16QAM-132072-27RB#0**

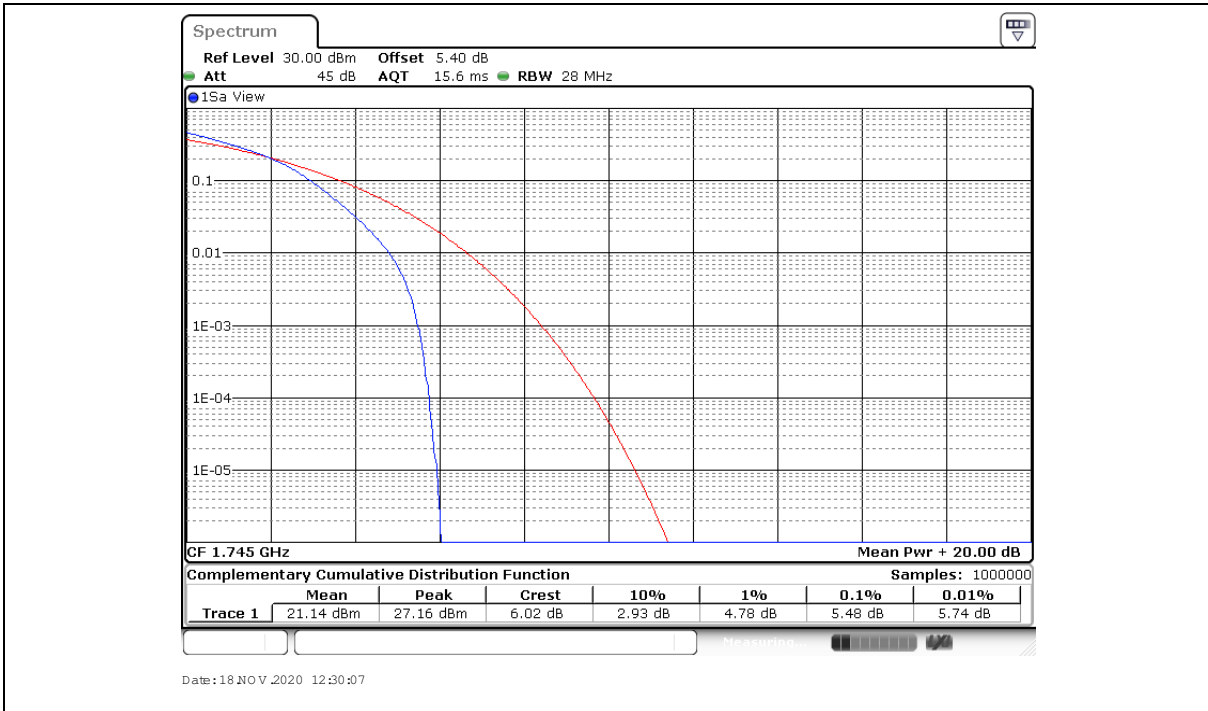


Date: 18 NOV 2020 12:29:51

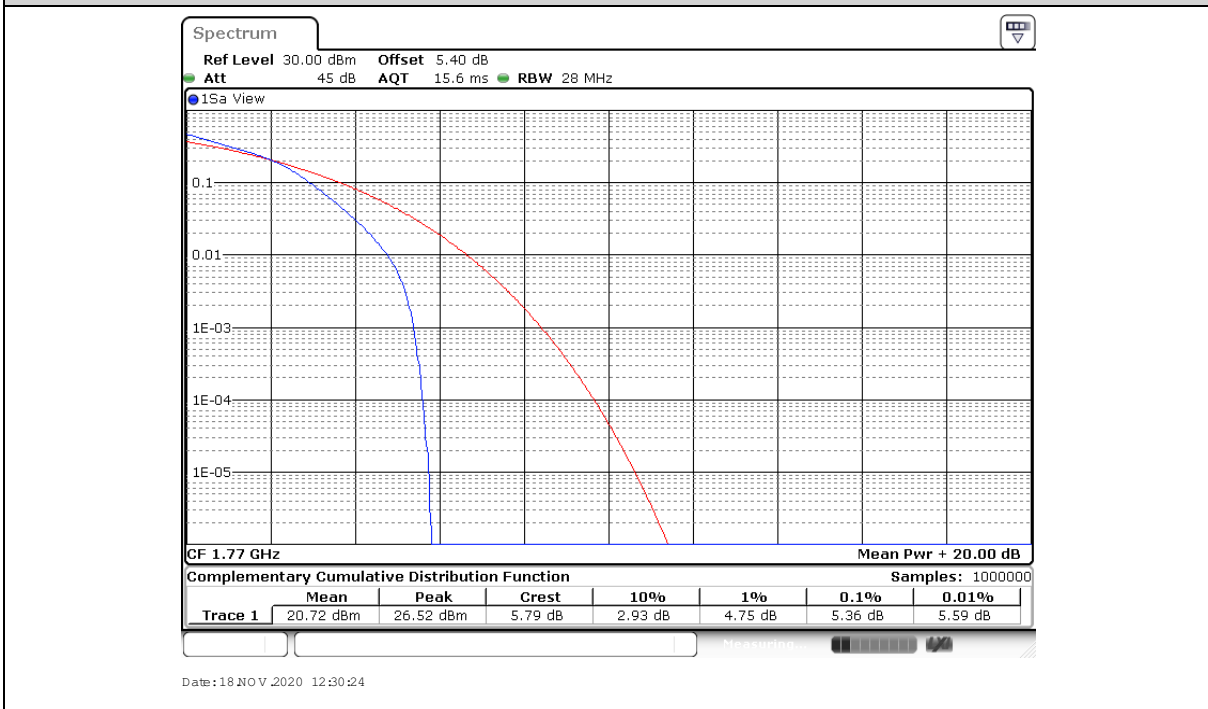
**Band66-20MHz-16QAM-132322-27RB#0**



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Band66-20MHz-16QAM-132572-27RB#0



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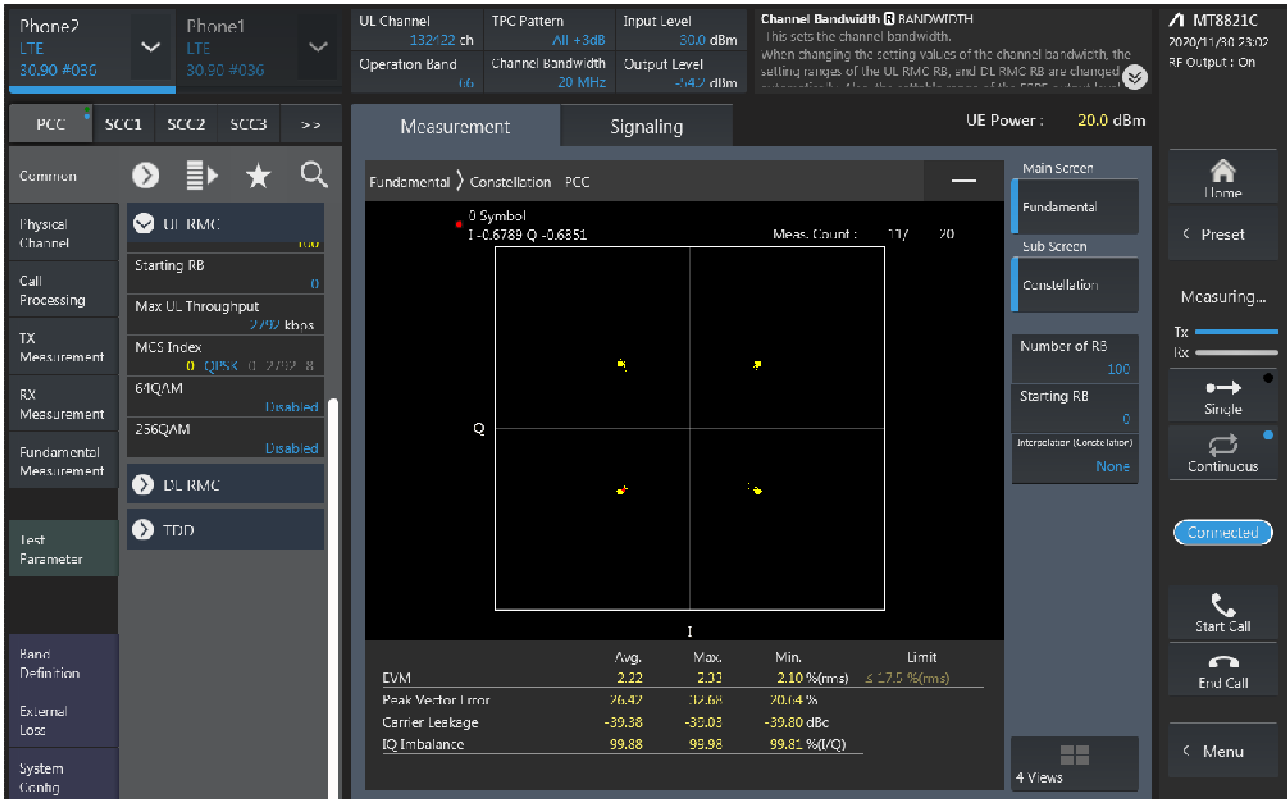
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### 3 Modulation Characteristics

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

##### 3.1.1 Test Channel = MCH

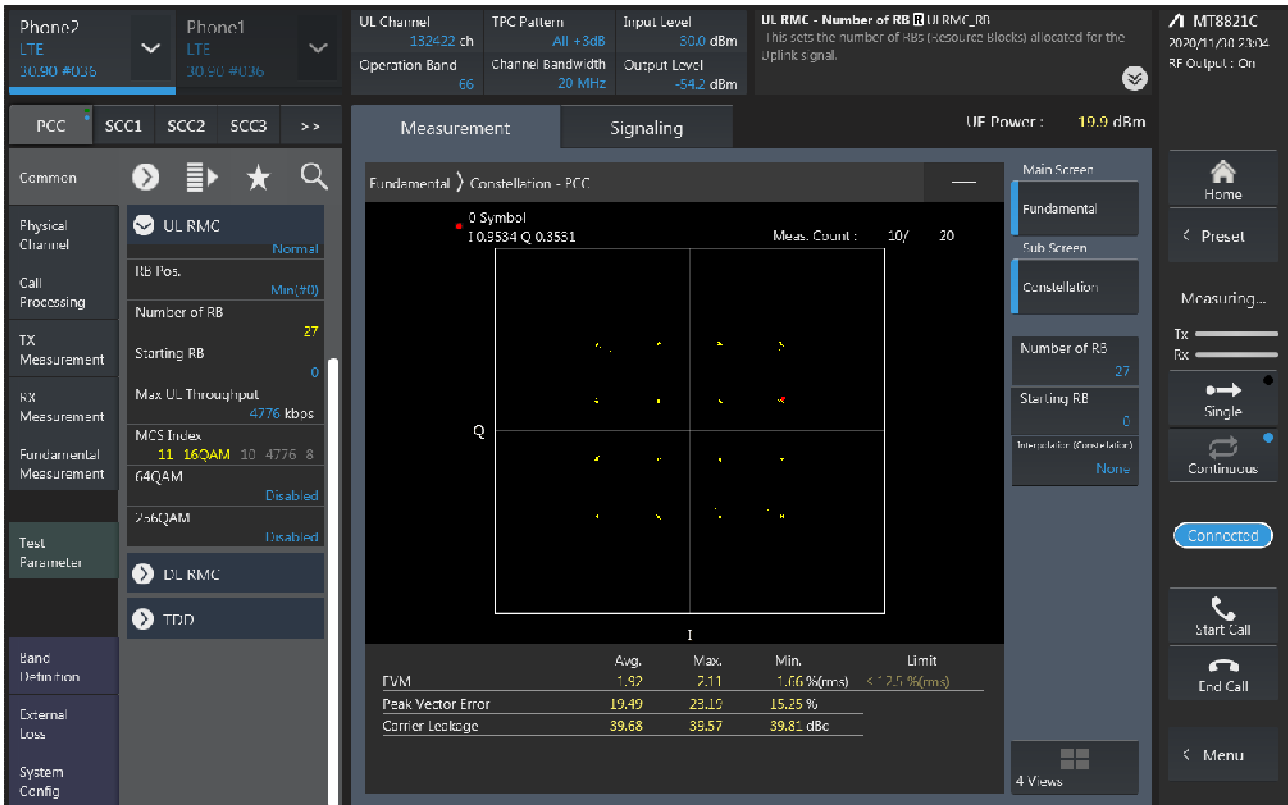


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### 3.2 Test Mode = LTE /TM2 20MHz

#### 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
Band66	1.4MHz	QPSK	131979	6RB#0	1.091	1.296	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.091	1.293	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.094	1.290	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.091	1.281	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.091	1.281	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.091	1.305	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	2.994	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.691	2.982	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.697	2.988	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.685	2.958	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.970	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.685	2.976	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	4.910	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	4.910	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.900	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.476	4.960	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.486	4.970	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.486	4.980	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.911	9.700	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.931	9.680	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.891	9.680	PASS
Band66	10MHz	16QAM	132022	27RB#0	4.875	5.720	PASS
Band66	10MHz	16QAM	132322	27RB#0	4.875	5.720	PASS
Band66	10MHz	16QAM	132622	27RB#0	4.875	5.740	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.427	14.700	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.427	14.820	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.427	14.730	PASS
Band66	15MHz	16QAM	132047	27RB#0	5.095	6.090	PASS
Band66	15MHz	16QAM	132322	27RB#0	5.065	6.120	PASS
Band66	15MHz	16QAM	132597	27RB#0	5.065	6.090	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.862	19.400	PASS



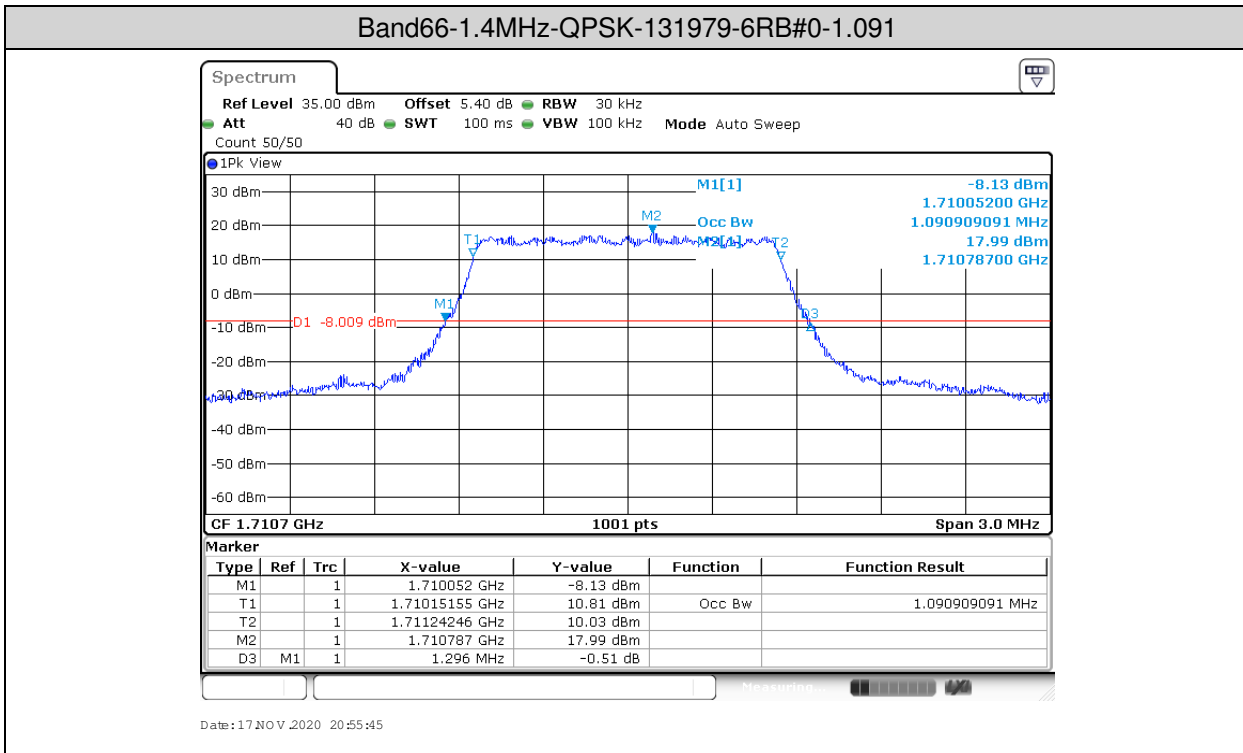
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Band66	20MHz	QPSK	132322	100RB#0	17.782	19.440	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.822	19.440	PASS
Band66	20MHz	16QAM	132072	27RB#0	5.195	6.440	PASS
Band66	20MHz	16QAM	132322	27RB#0	5.155	6.360	PASS
Band66	20MHz	16QAM	132572	27RB#0	5.155	6.520	PASS

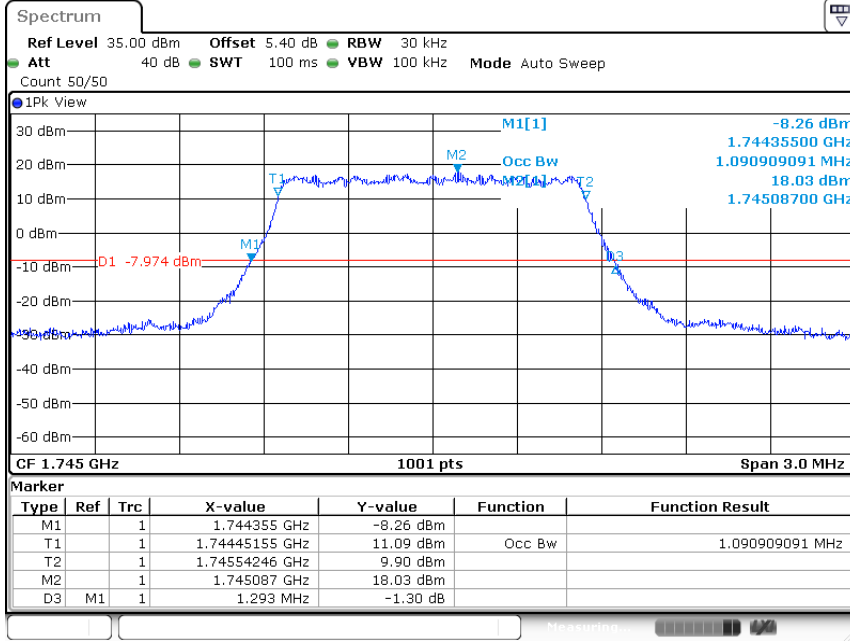
## 4.2 Test Plots



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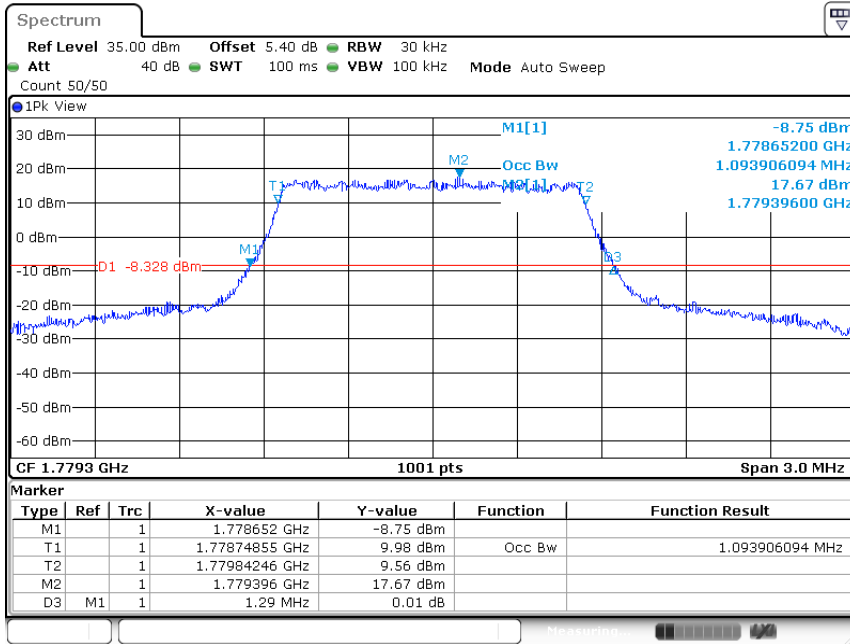
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**Band66-1.4MHz-QPSK-132322-6RB#0-1.091**



Date: 17 NOV 2020 20:56:04

**Band66-1.4MHz-QPSK-132665-6RB#0-1.094**

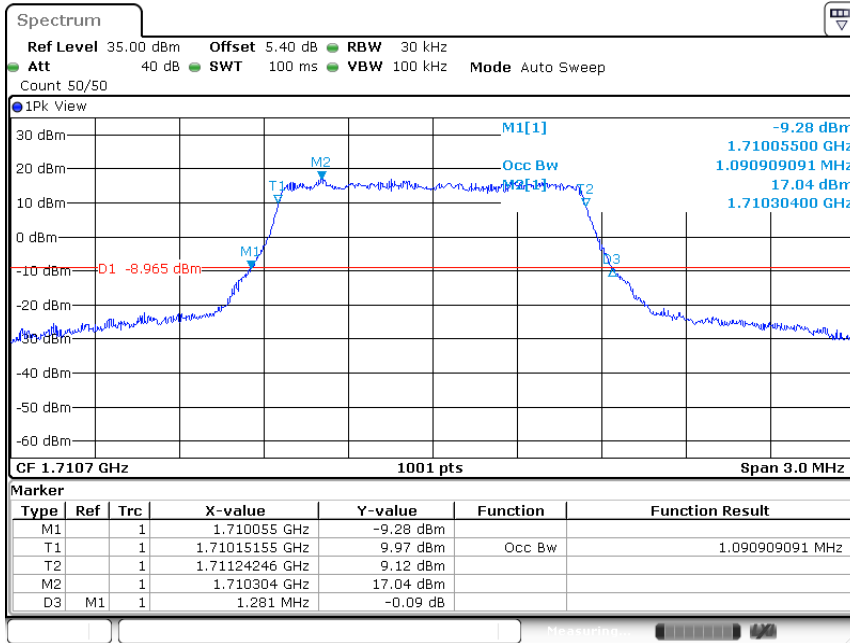


Date: 17 NOV 2020 20:56:22



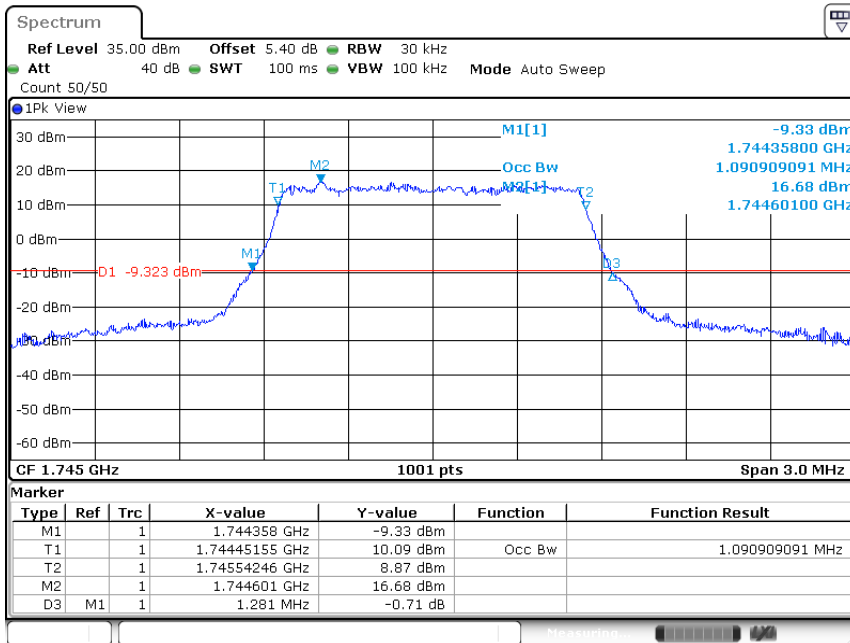
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**Band66-1.4MHz-16QAM-131979-6RB#0-1.091**



Date: 18 NOV 2020 12:11:53

**Band66-1.4MHz-16QAM-132322-6RB#0-1.091**

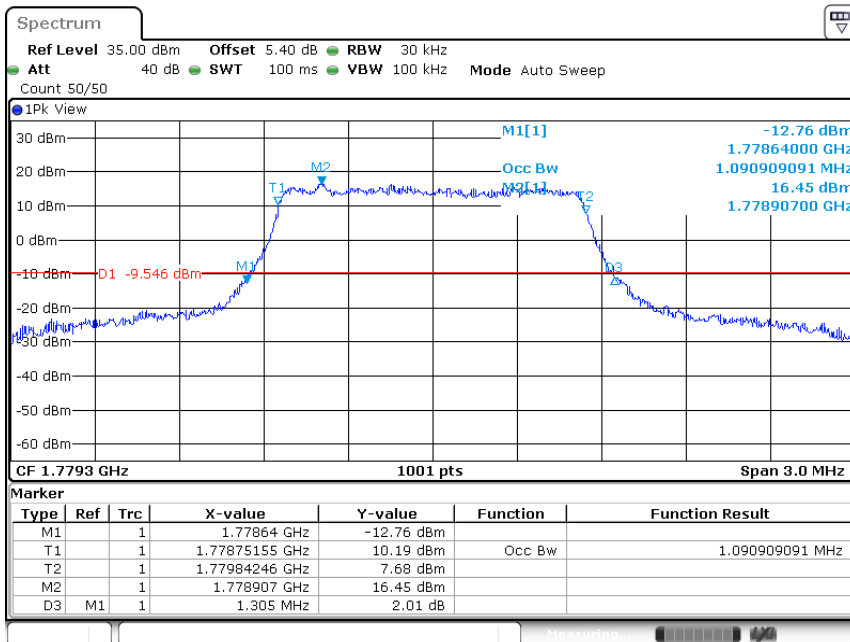


Date: 18 NOV 2020 12:12:11



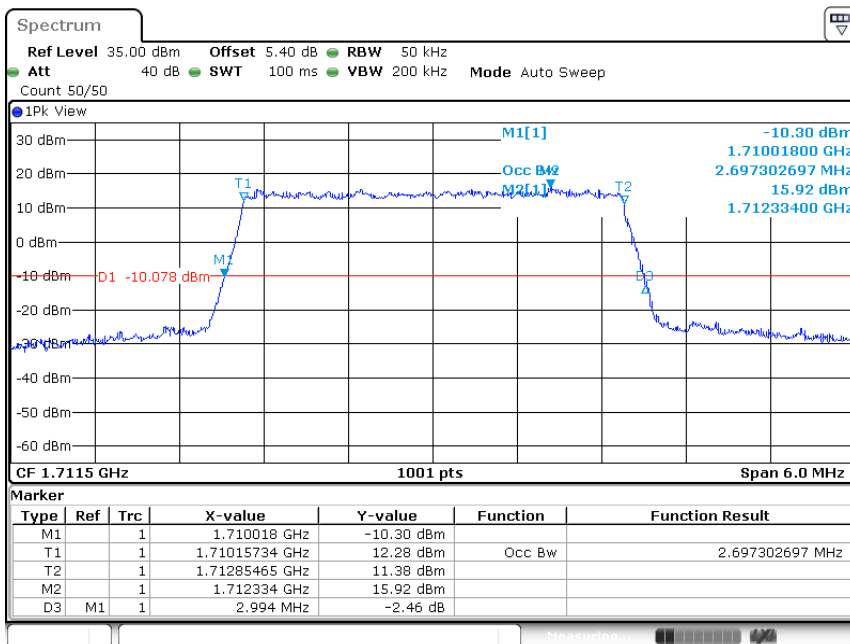
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Band66-1.4MHz-16QAM-132665-6RB#0-1.091



Date: 18 NOV 2020 12:12:30

Band66-3MHz-QPSK-131987-15RB#0-2.697



Date: 17 NOV 2020 20:56:46

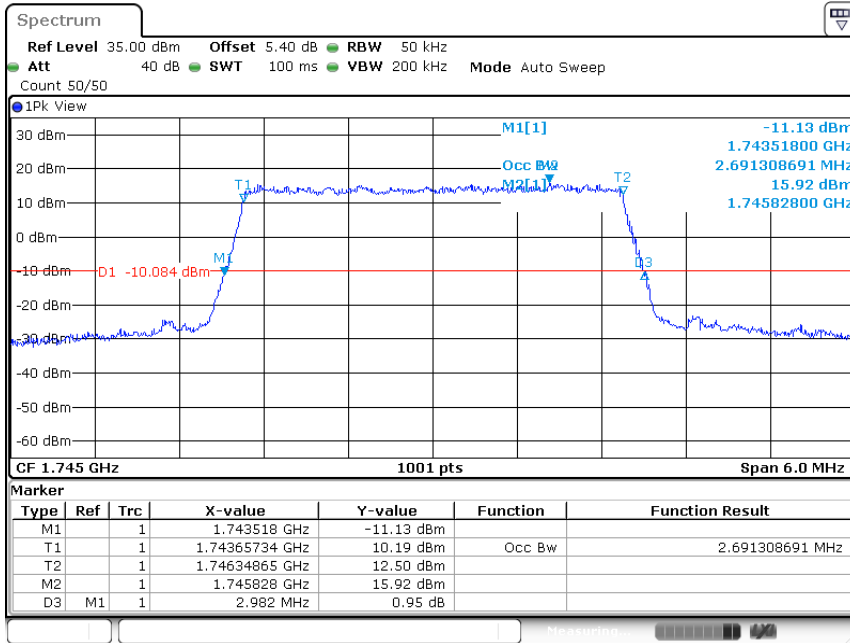


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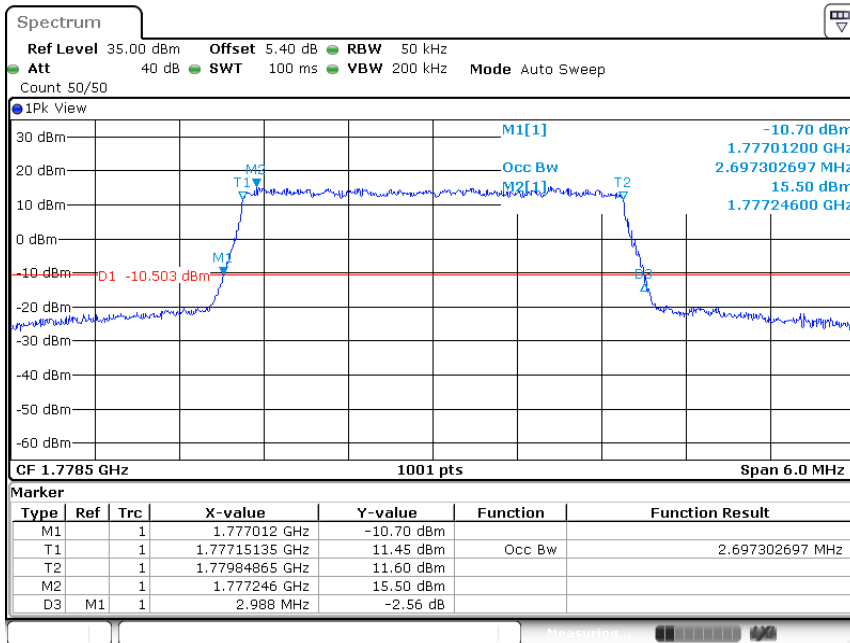
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**Band66-3MHz-QPSK-132322-15RB#0-2.691**



Date: 17 NOV 2020 20:57:05

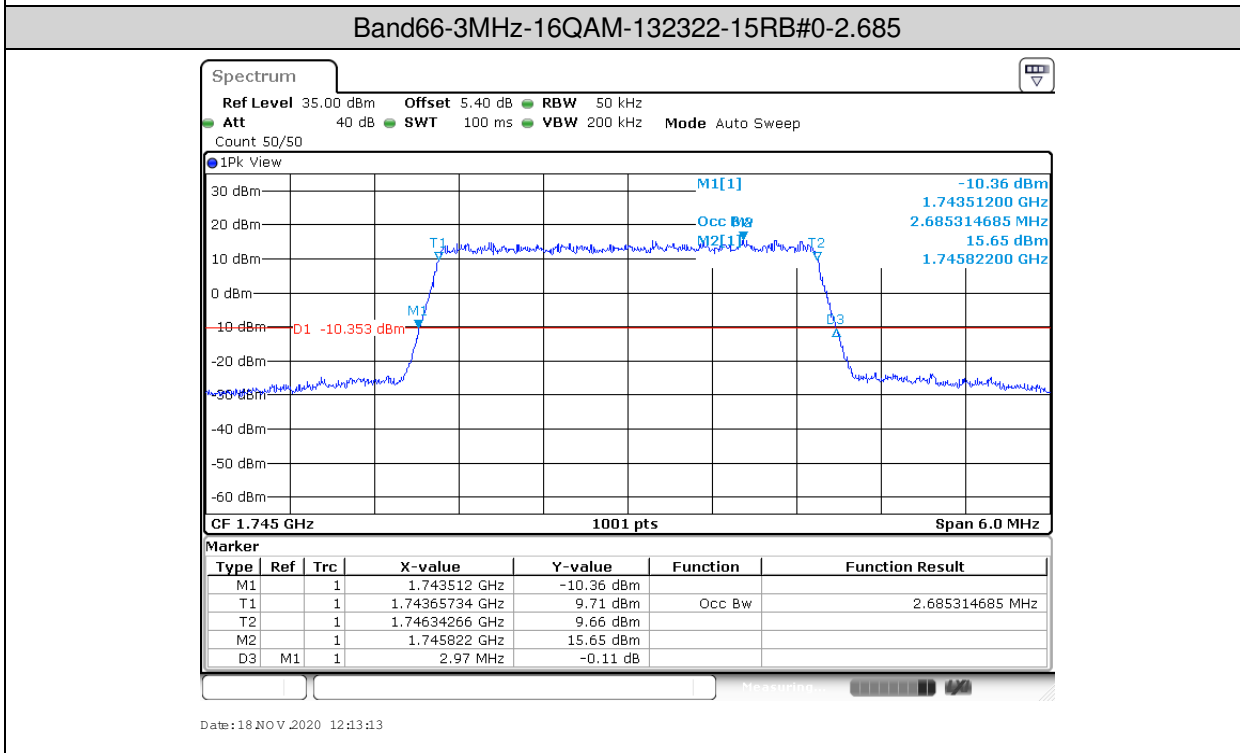
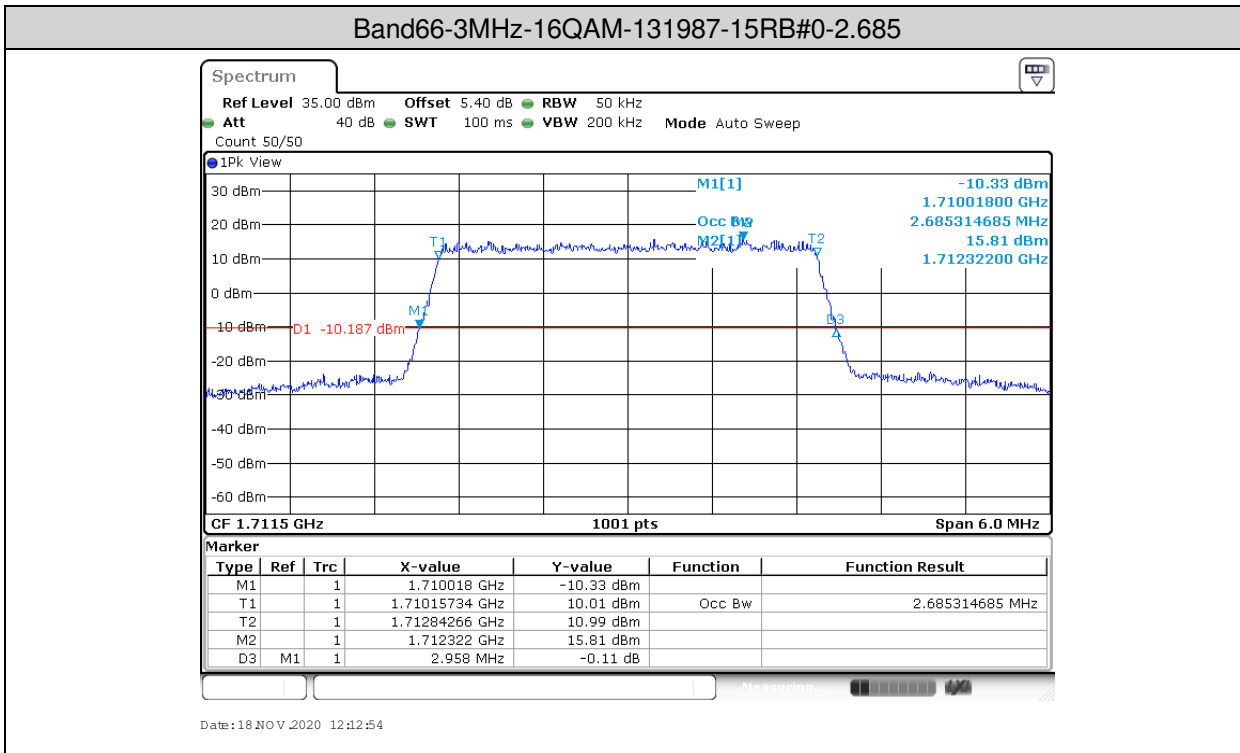
**Band66-3MHz-QPSK-132657-15RB#0-2.697**



Date: 17 NOV 2020 20:57:24



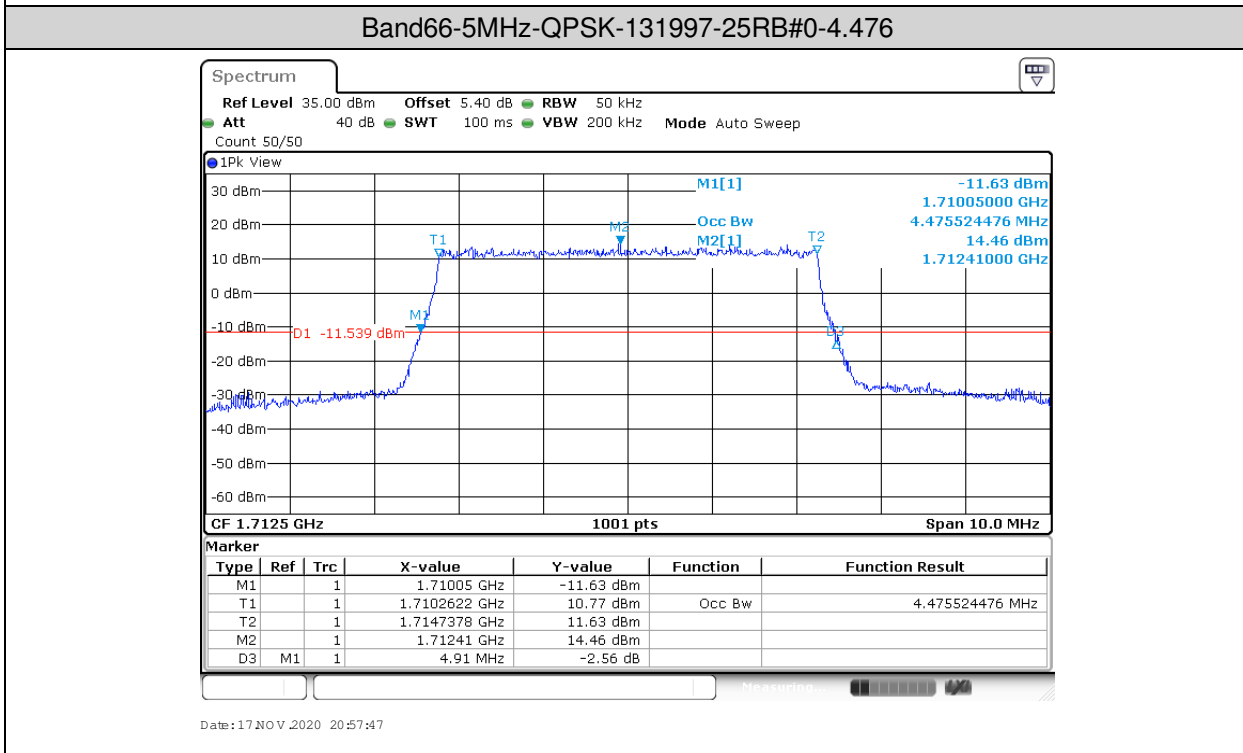
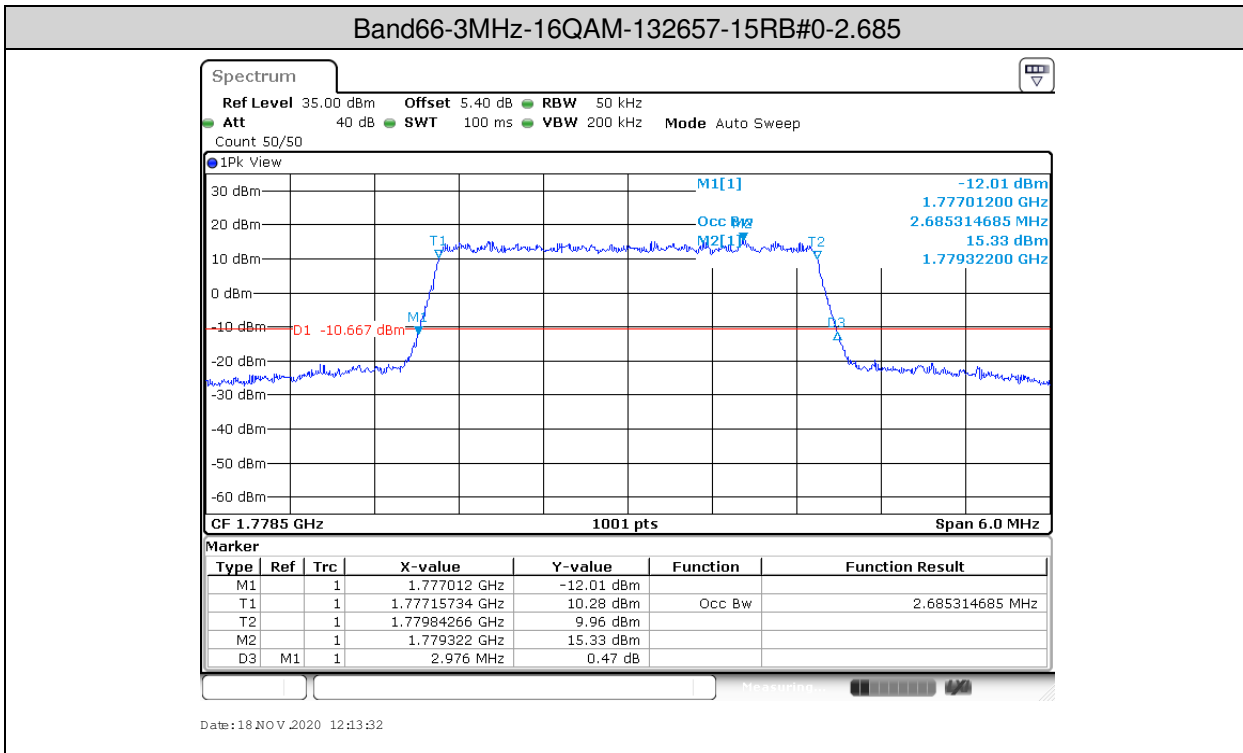
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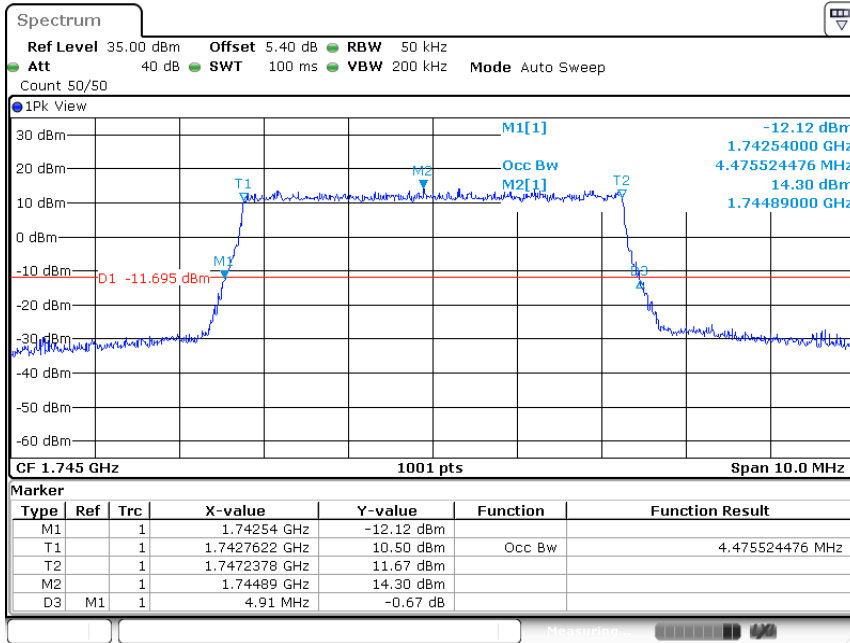
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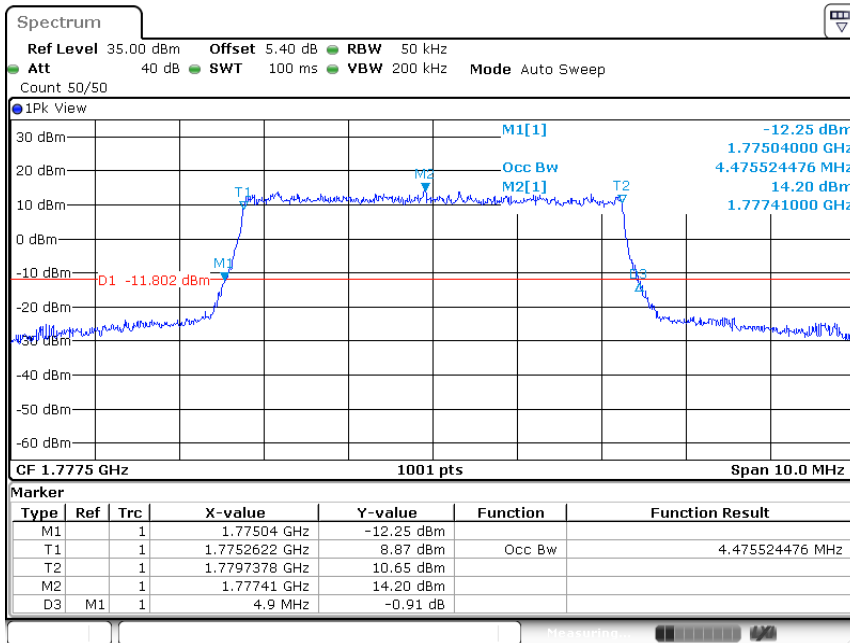
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**Band66-5MHz-QPSK-132322-25RB#0-4.476**



Date: 17 NOV 2020 20:58:06

**Band66-5MHz-QPSK-132647-25RB#0-4.476**

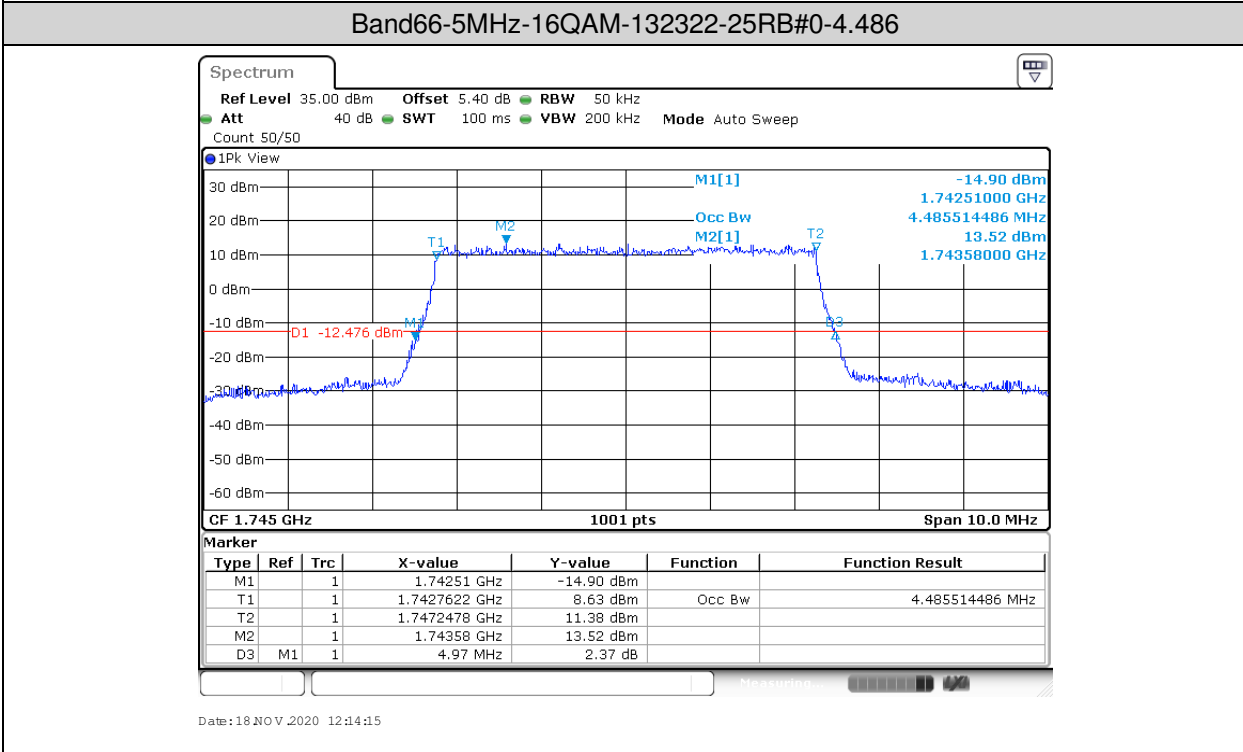
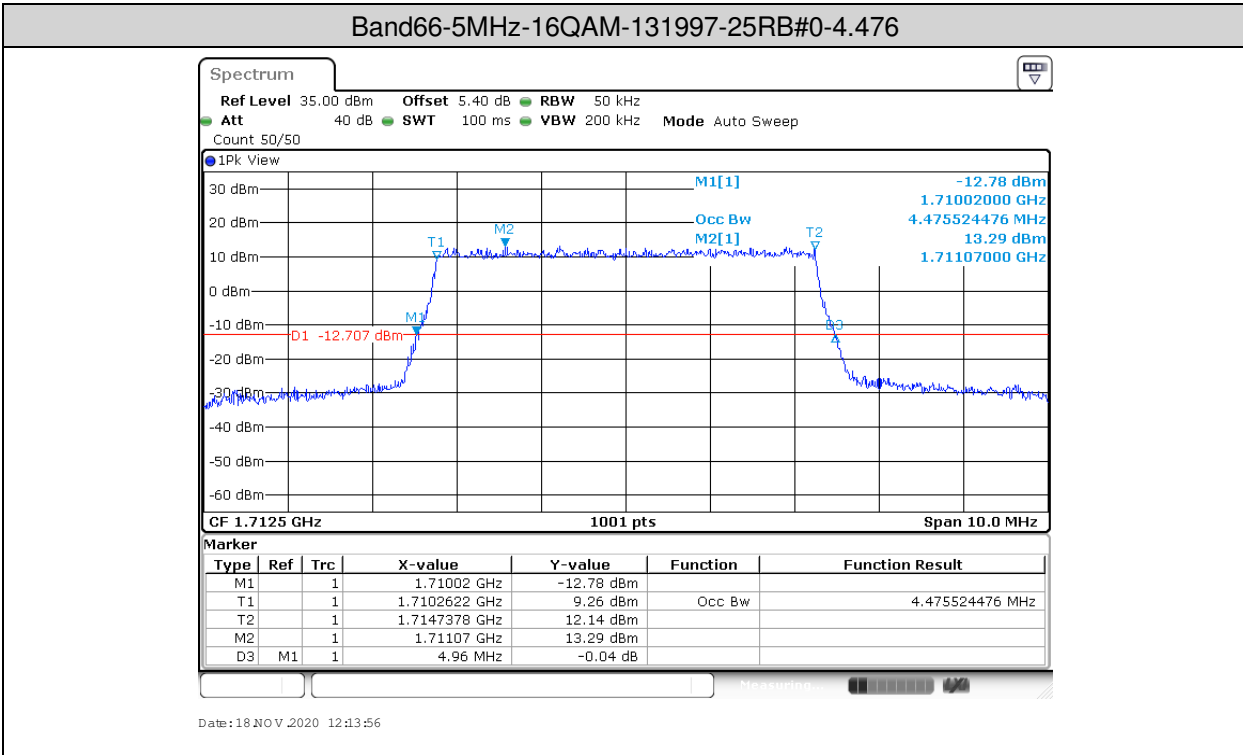


Date: 17 NOV 2020 20:58:24



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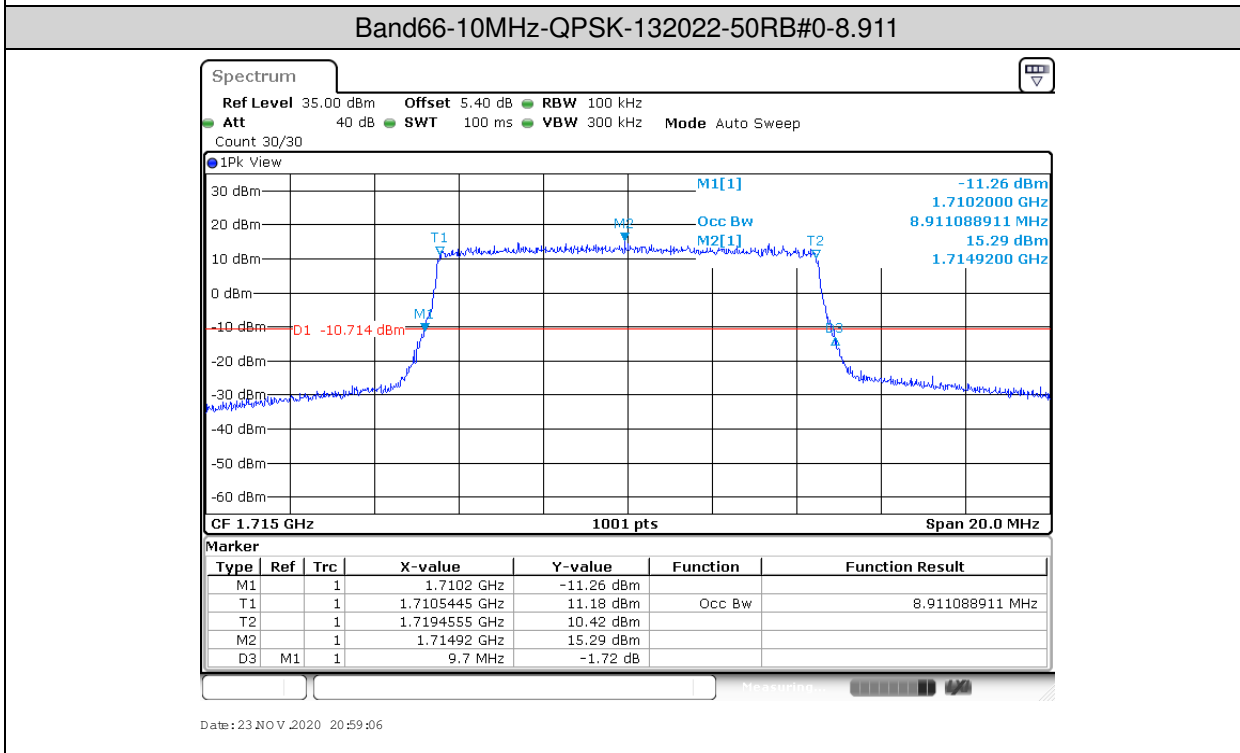
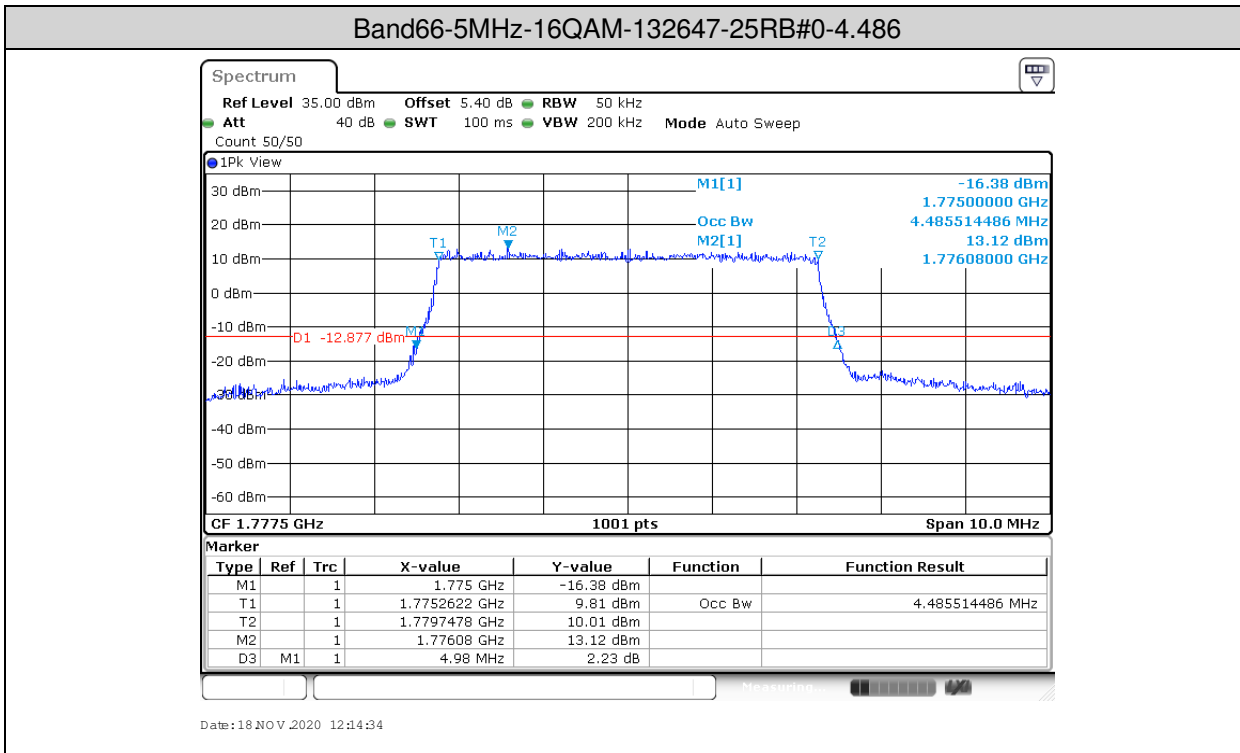




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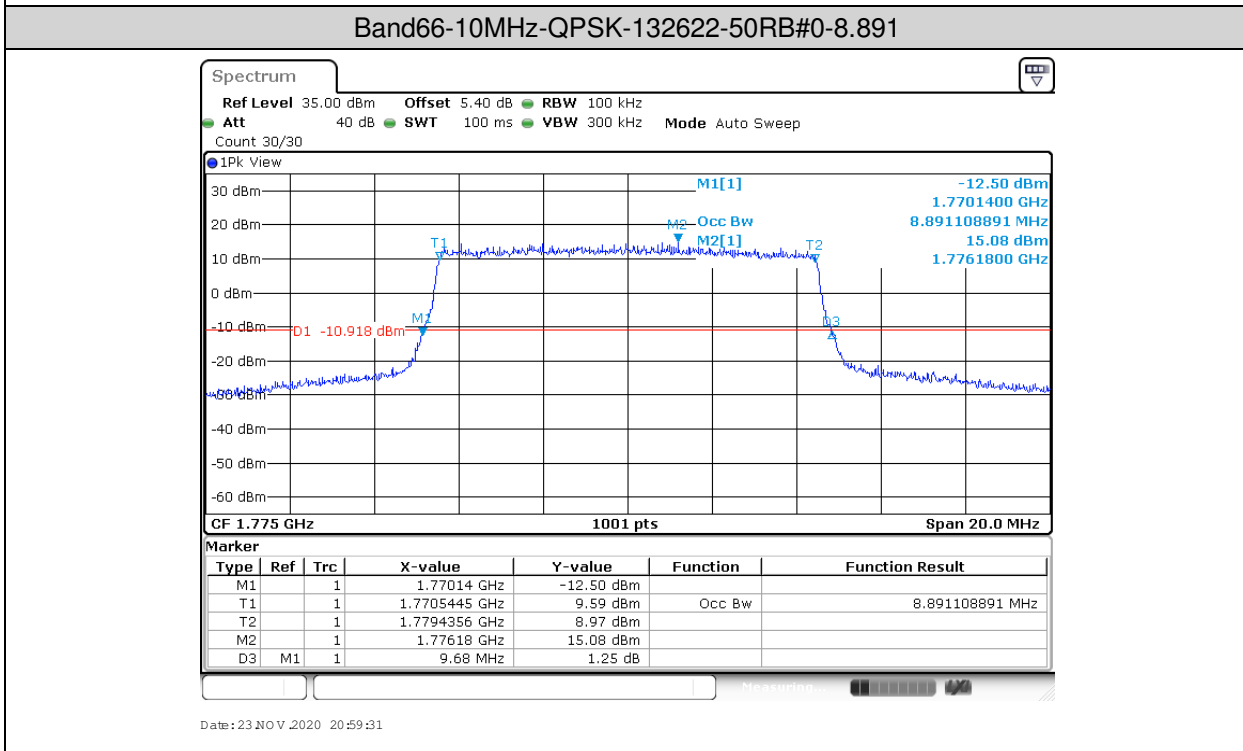
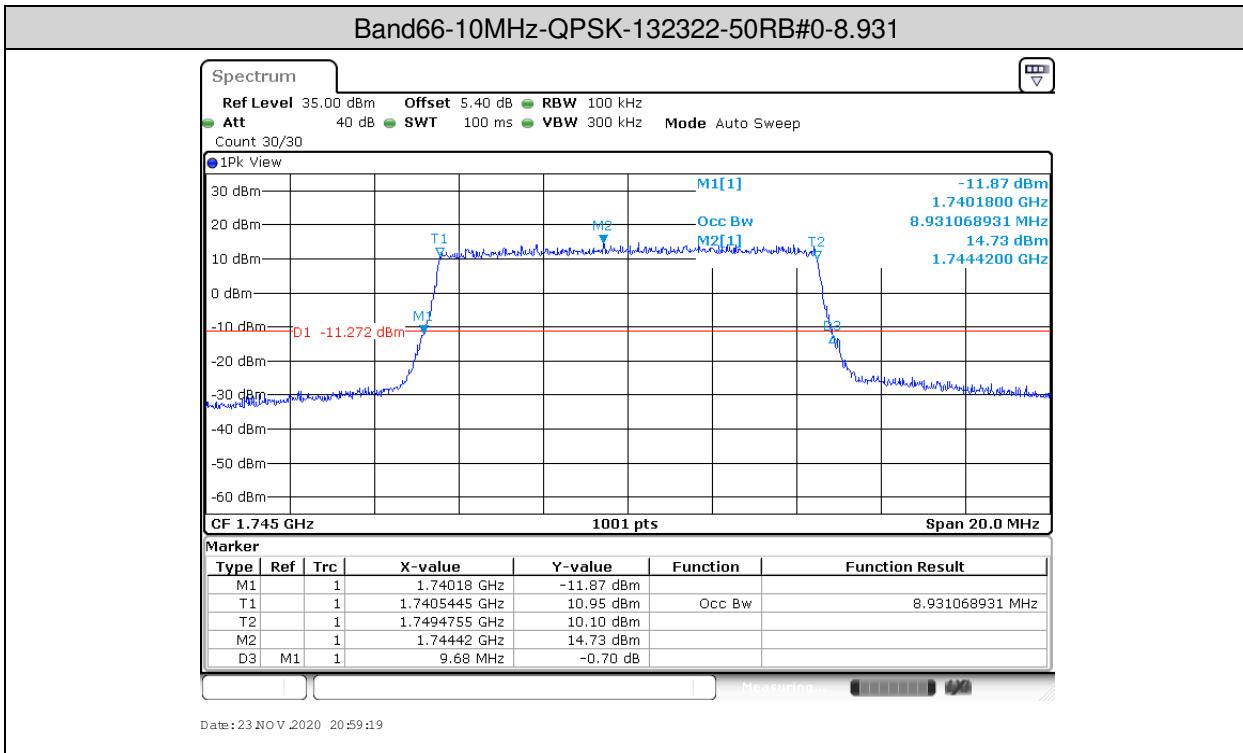
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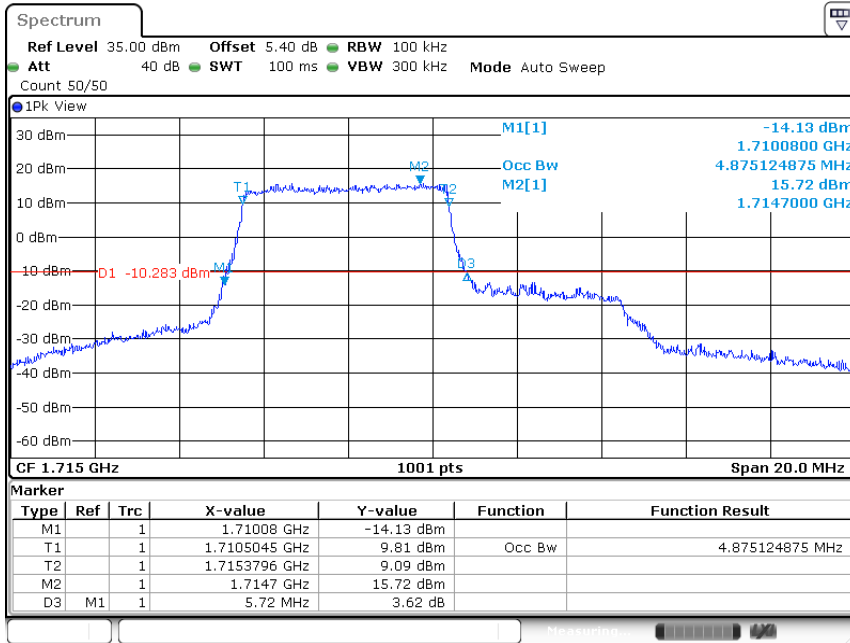


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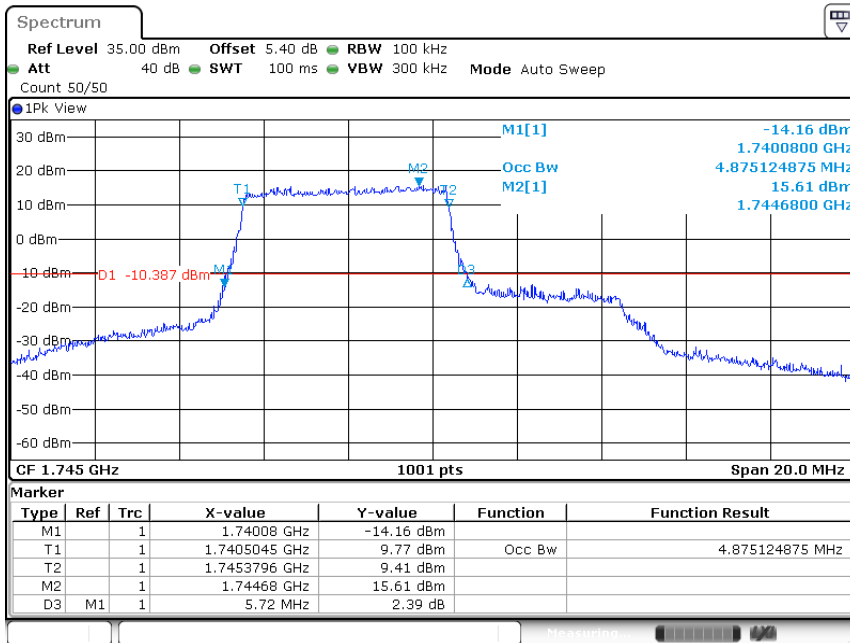
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**Band66-10MHz-16QAM-132022-27RB#0-4.875**



Date: 18 NOV 2020 12:14:58

**Band66-10MHz-16QAM-132322-27RB#0-4.875**

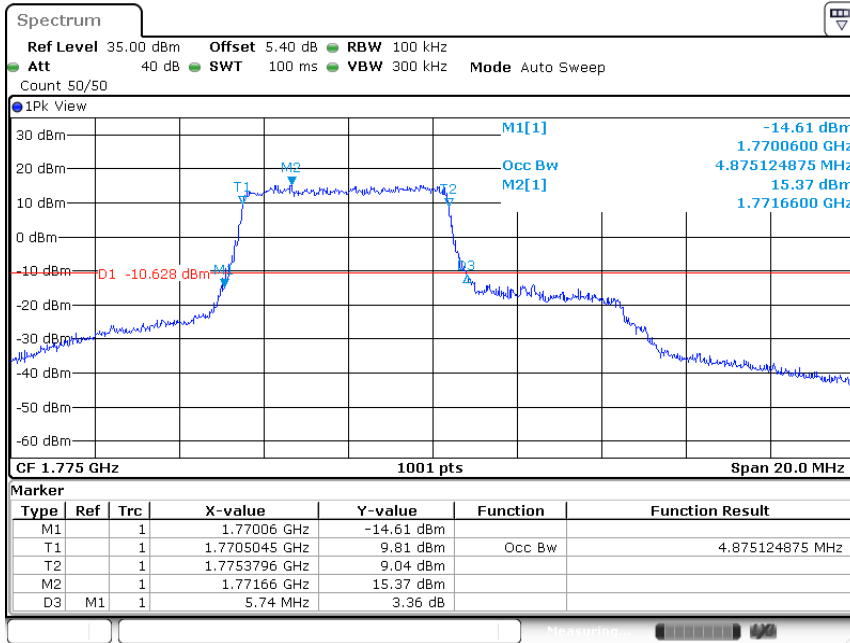


Date: 18 NOV 2020 12:15:17



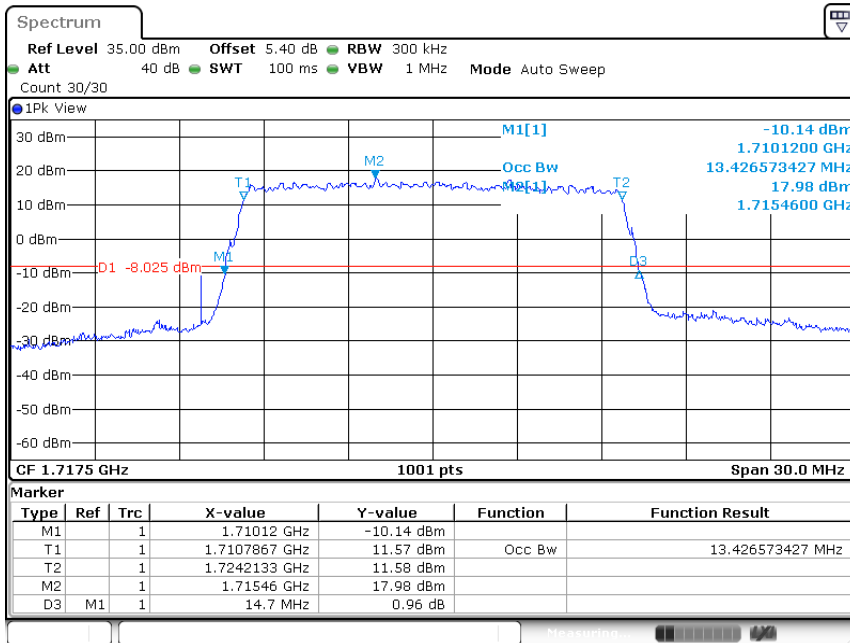
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**Band66-10MHz-16QAM-132622-27RB#0-4.875**



Date: 18 NOV 2020 12:15:36

**Band66-15MHz-QPSK-132047-75RB#0-13.427**

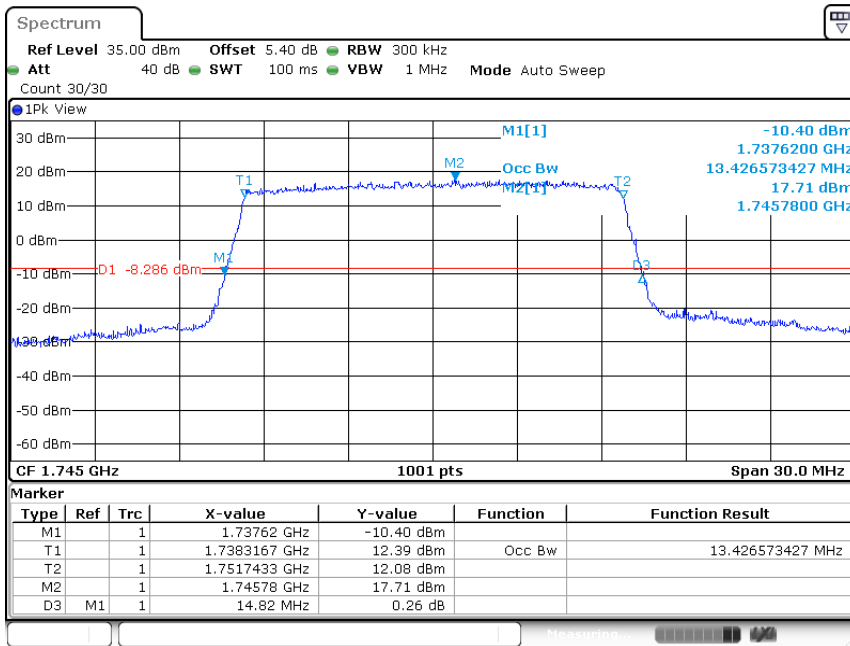


Date: 23 NOV 2020 21:00:55



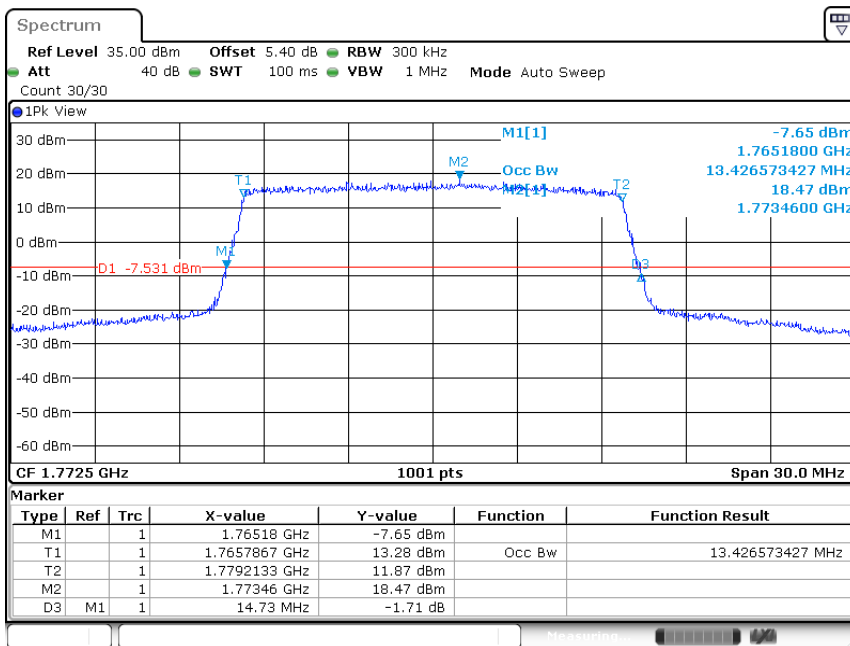
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Band66-15MHz-QPSK-132322-75RB#0-13.427



Date: 23 NOV 2020 21:01:38

Band66-15MHz-QPSK-132597-75RB#0-13.427

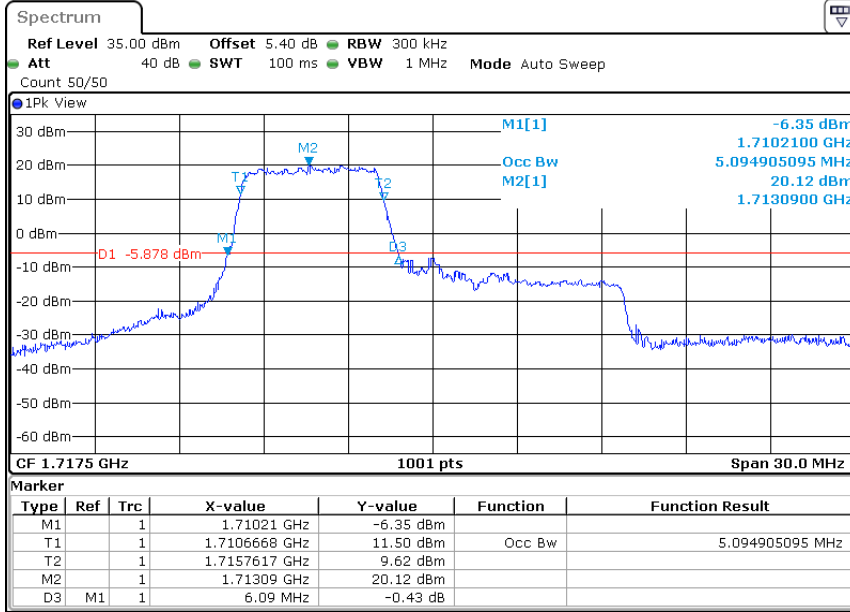


Date: 23 NOV 2020 21:01:50



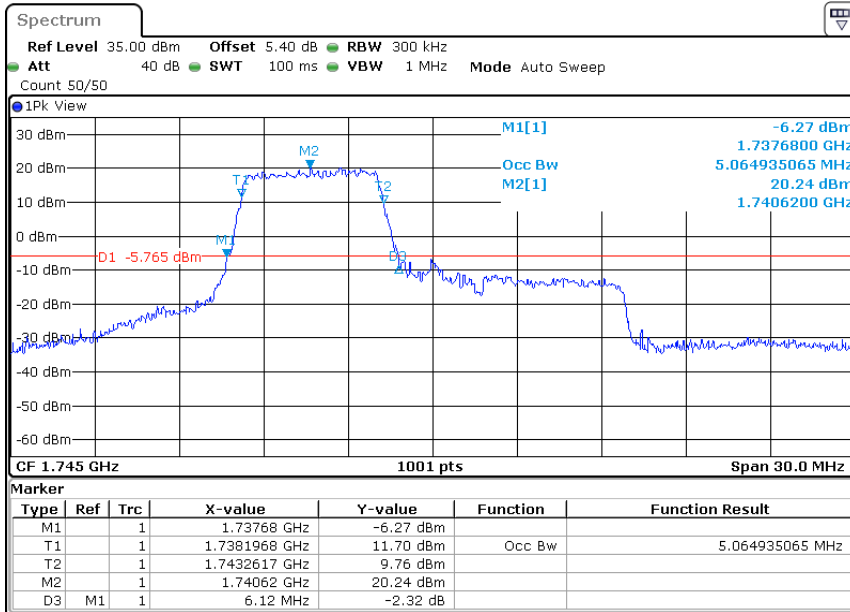
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**Band66-15MHz-16QAM-132047-27RB#0-5.095**



Date: 18 NOV 2020 12:16:00

**Band66-15MHz-16QAM-132322-27RB#0-5.065**

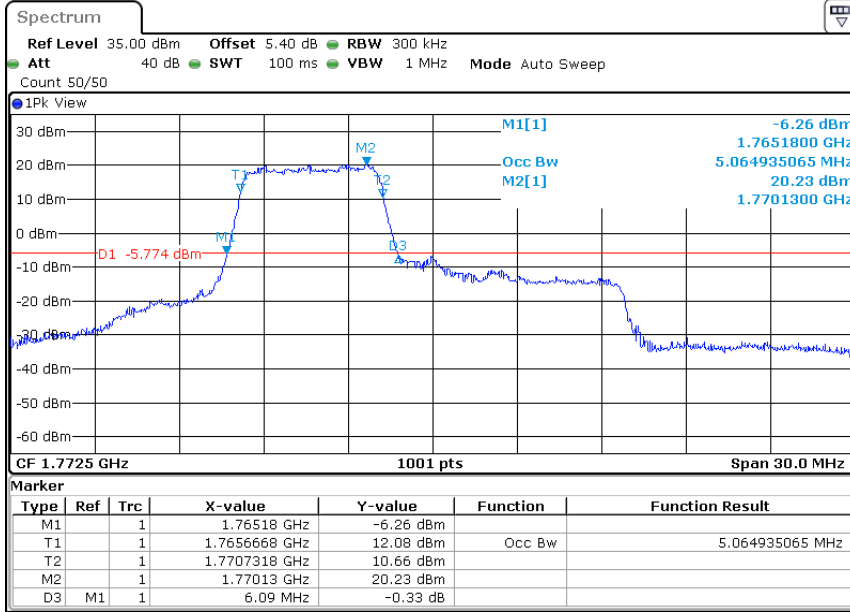


Date: 18 NOV 2020 12:16:19



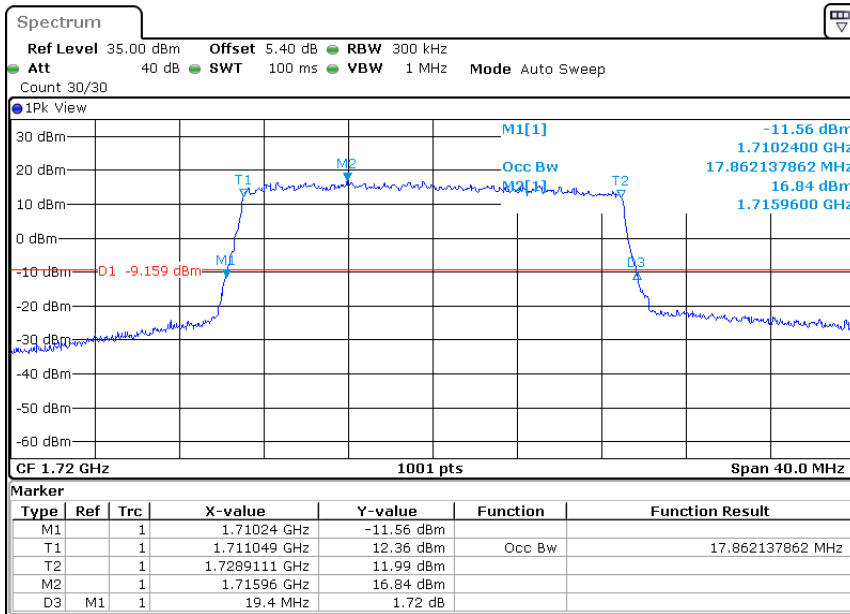
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**Band66-15MHz-16QAM-132597-27RB#0-5.065**



Date: 18 NOV 2020 12:16:38

**Band66-20MHz-QPSK-132072-100RB#0-17.862**



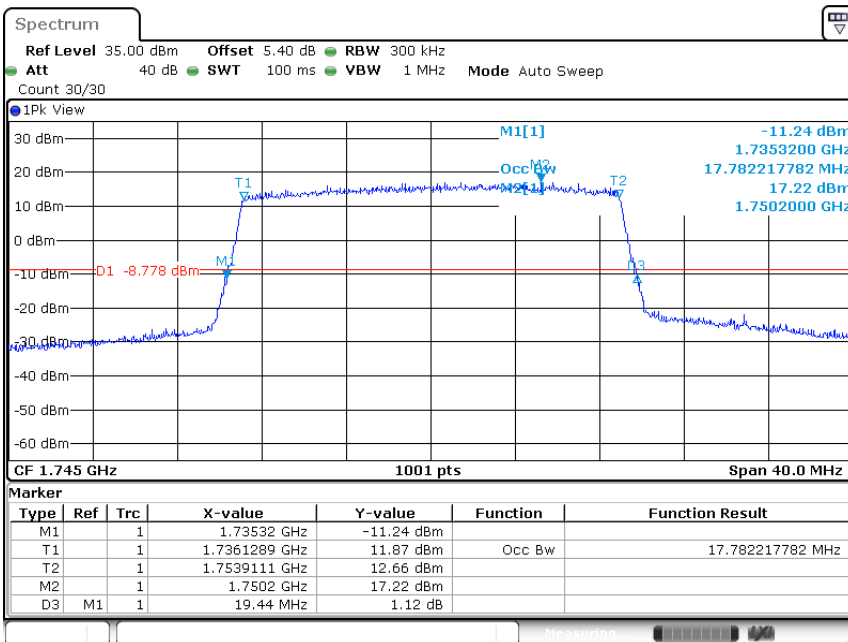
Date: 23 NOV 2020 21:02:54



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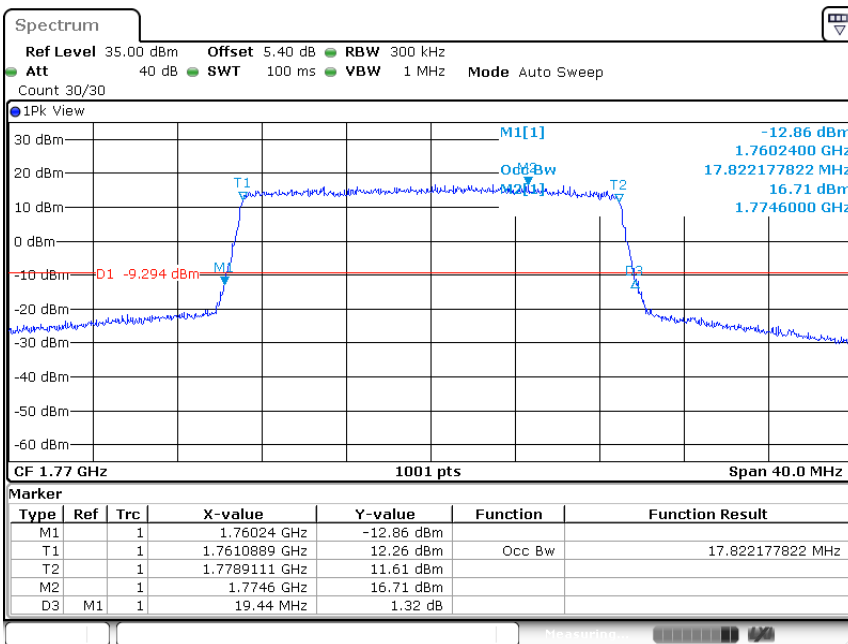


**Band66-20MHz-QPSK-132322-100RB#0-17.782**



Date: 23 NOV 2020 21:03:12

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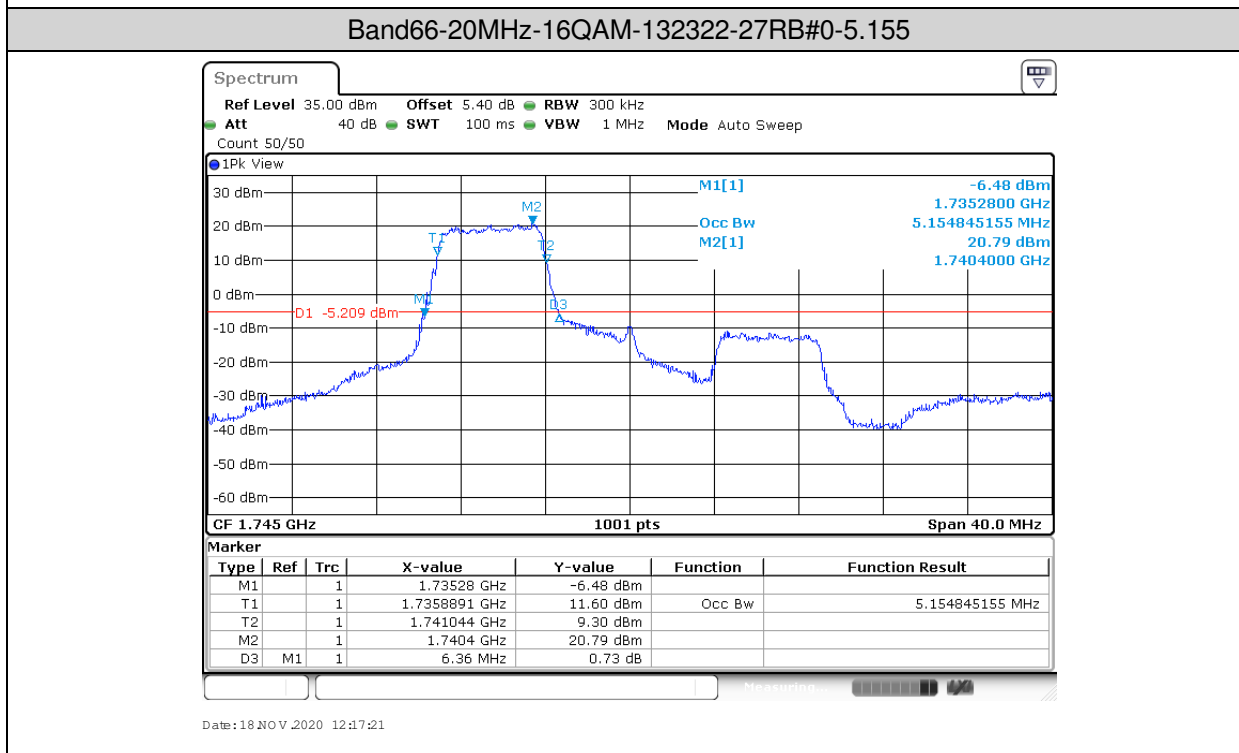
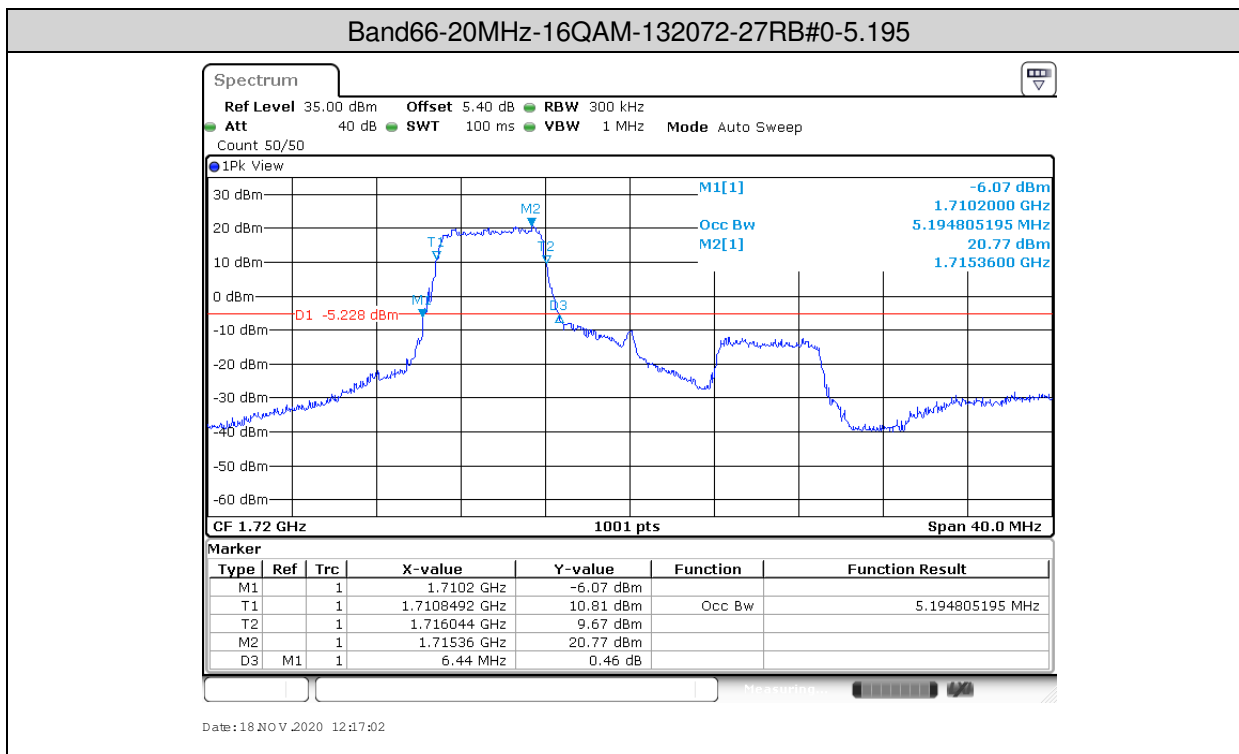
Date: 23 NOV 2020 21:03:28



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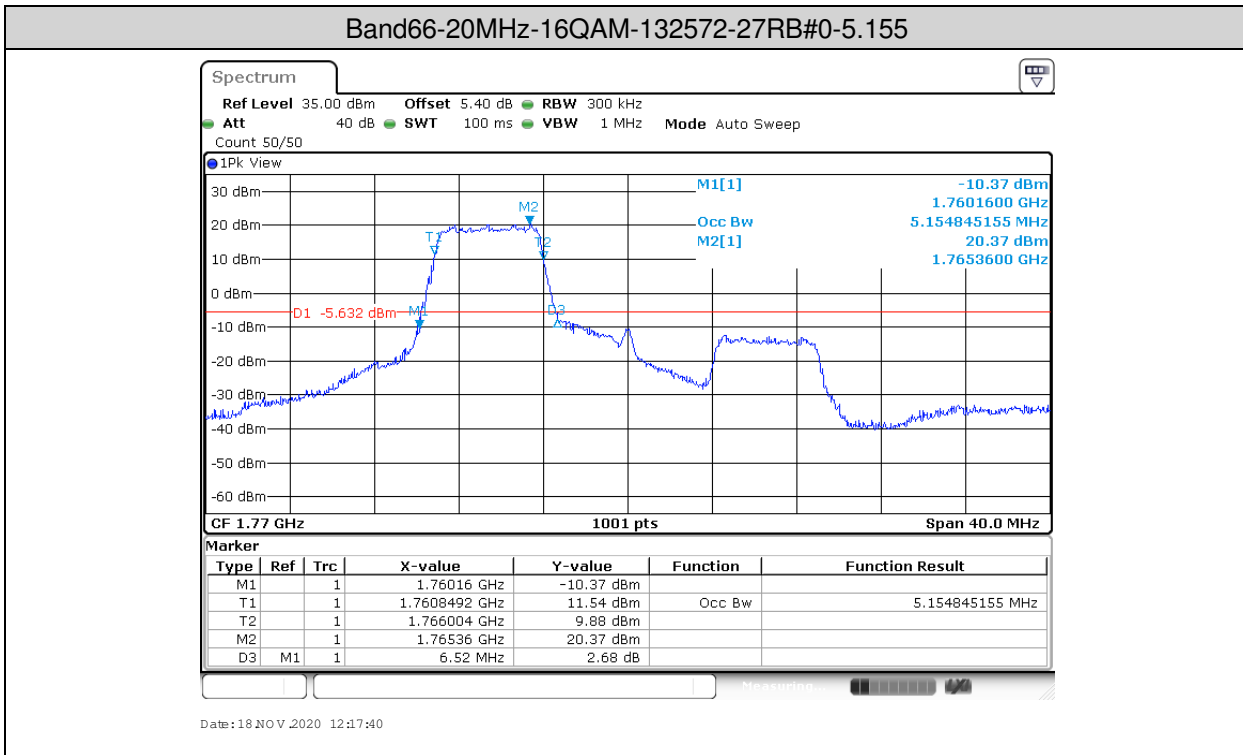
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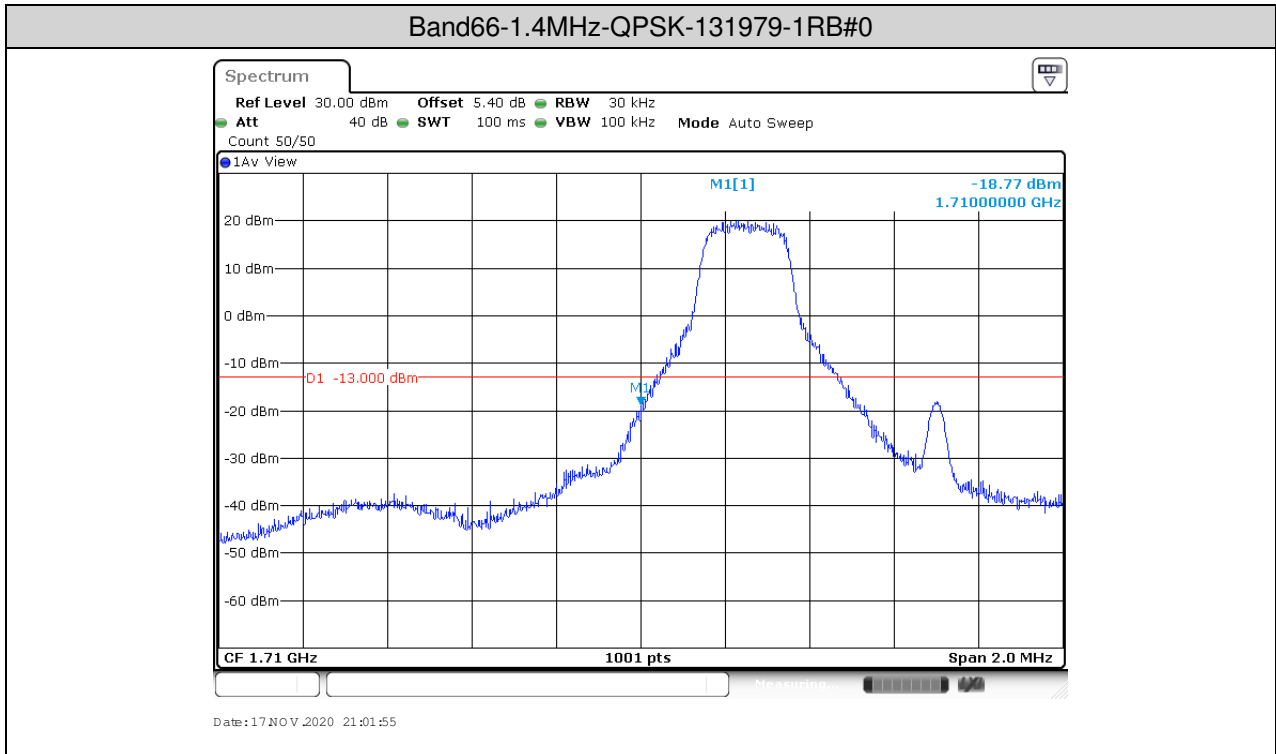


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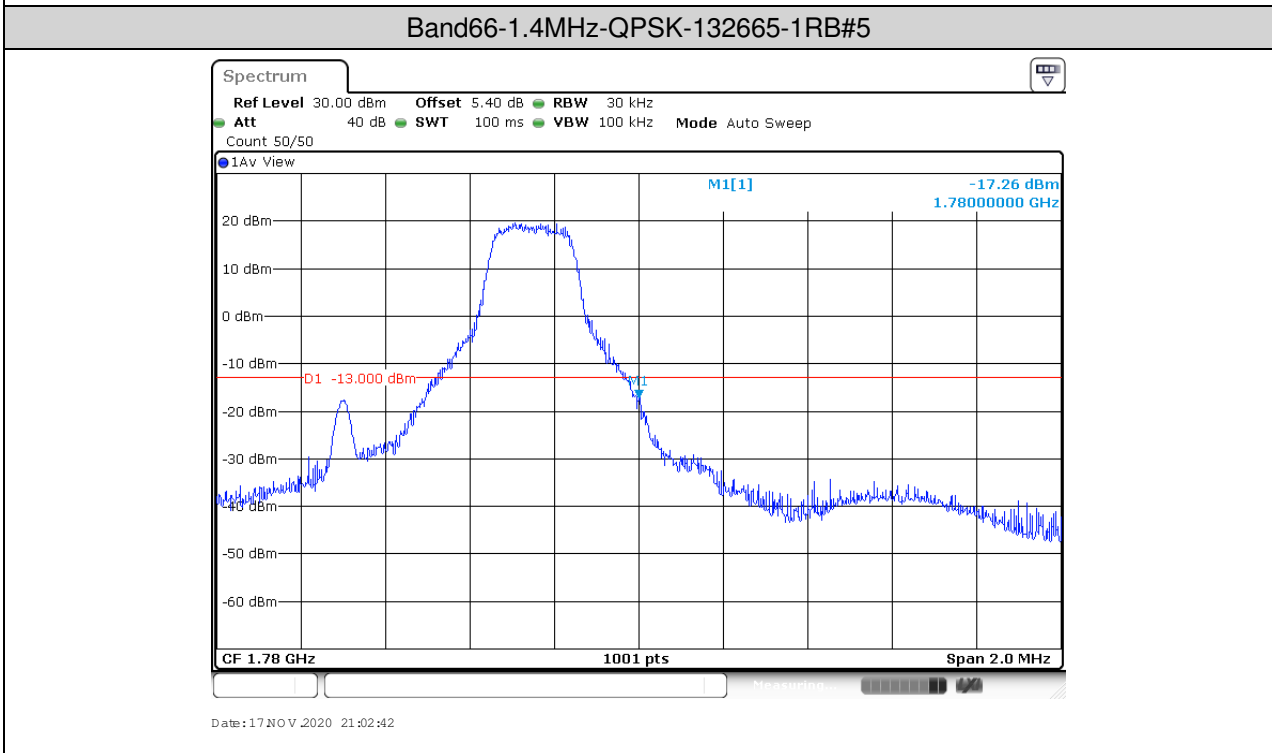
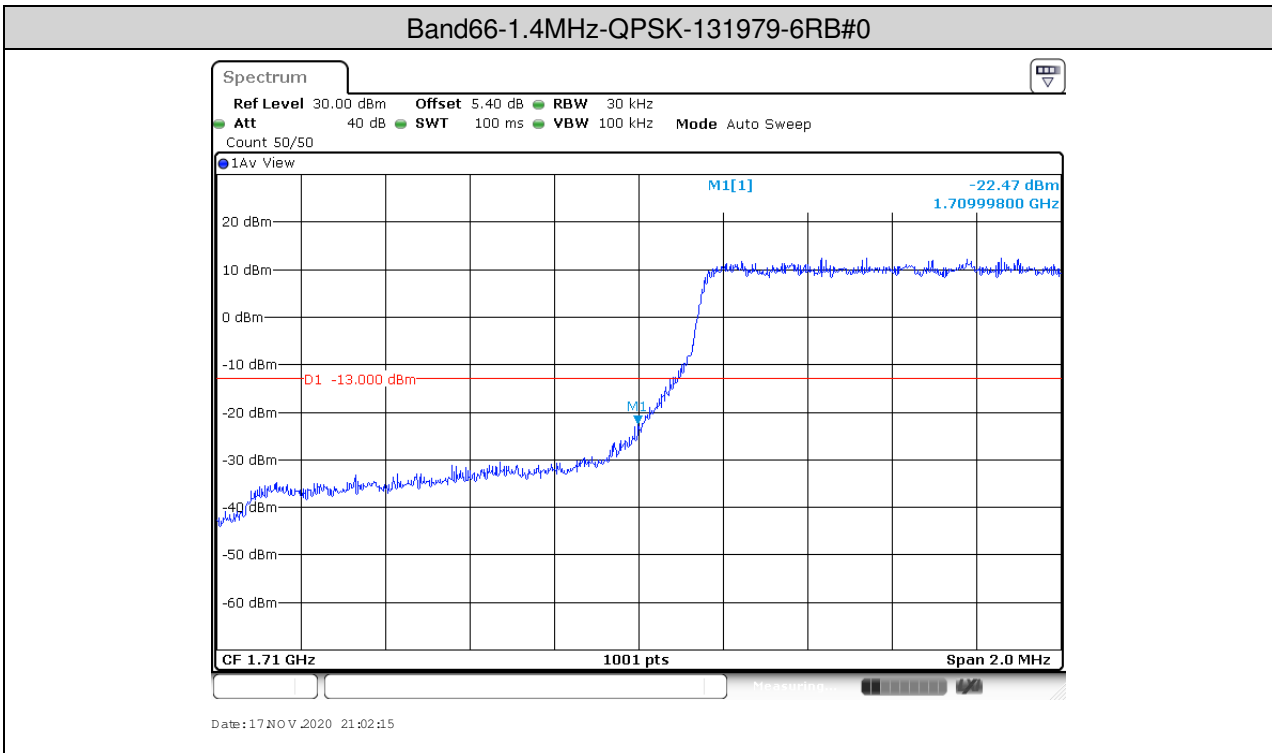
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## 5 Band Edge Compliance

### 5.1 Test Plots

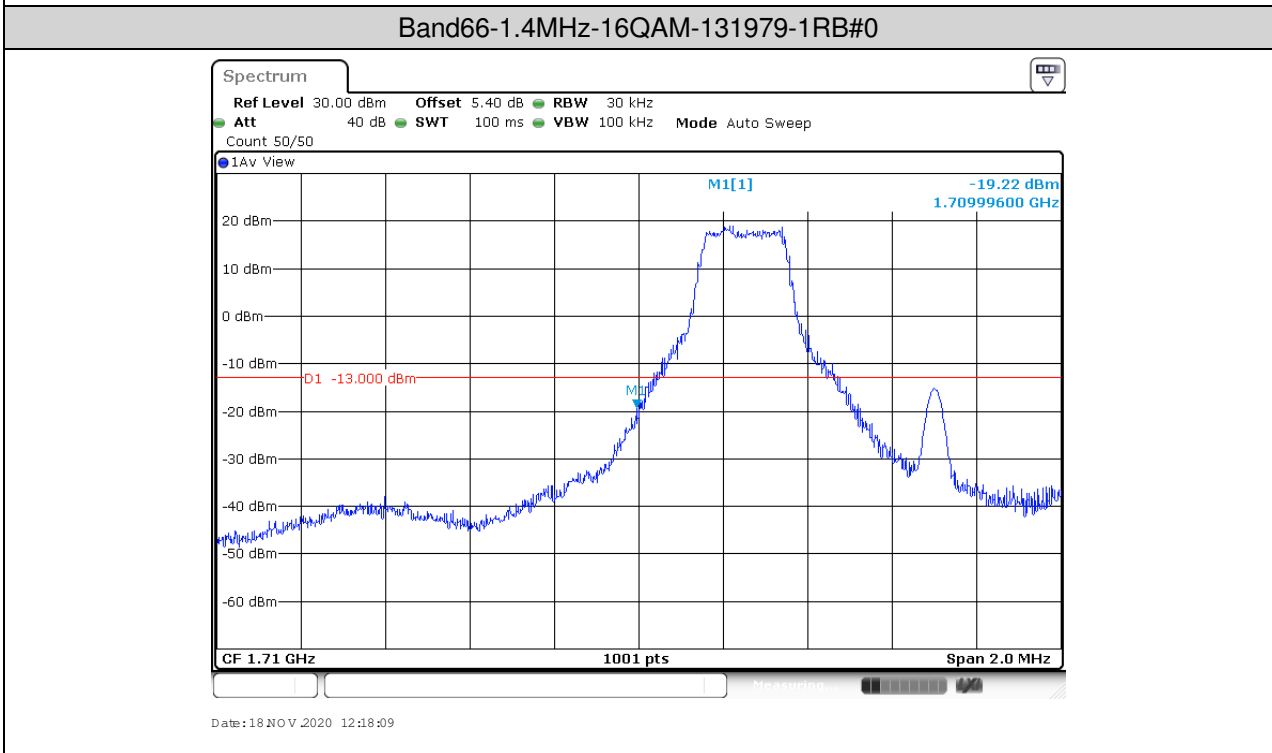
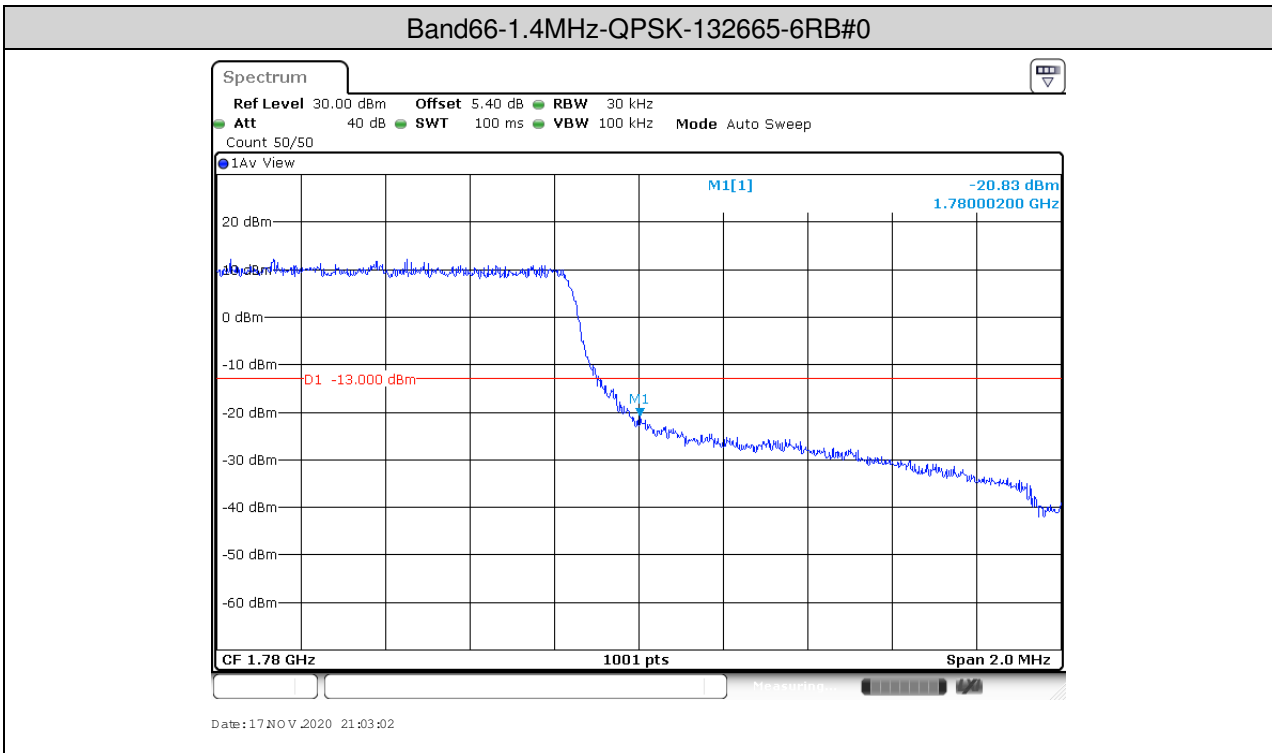


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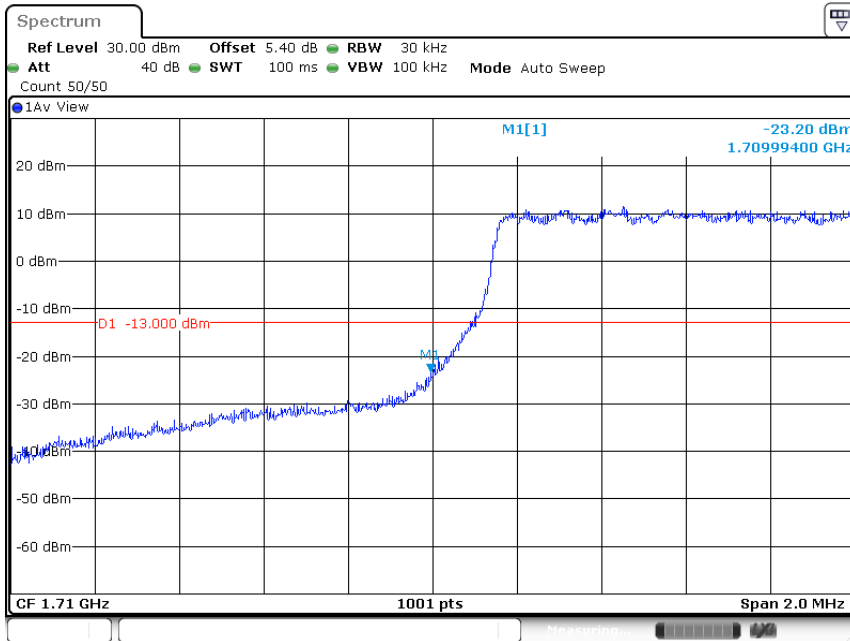
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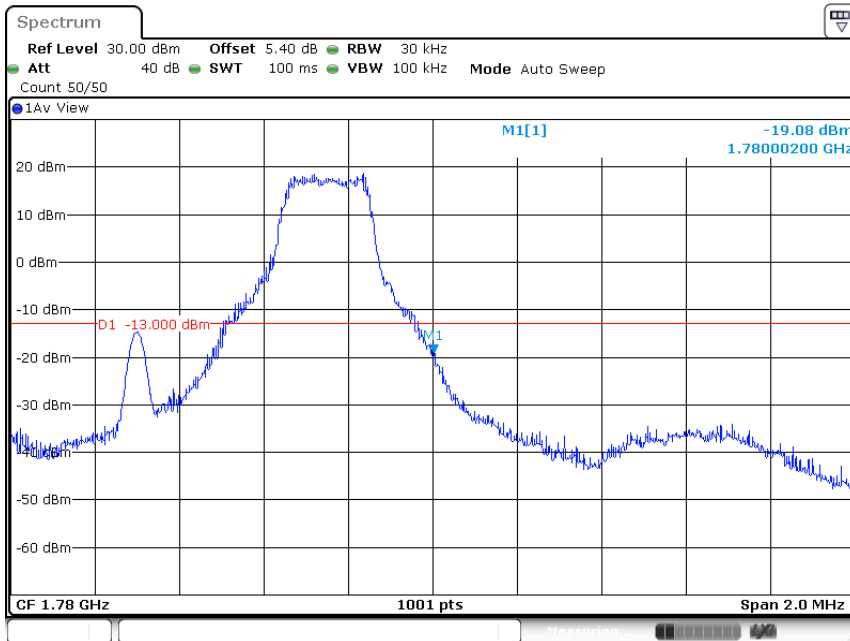
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**Band66-1.4MHz-16QAM-131979-6RB#0**



Date: 18 NOV 2020 12:18:28

**Band66-1.4MHz-16QAM-132665-1RB#5**

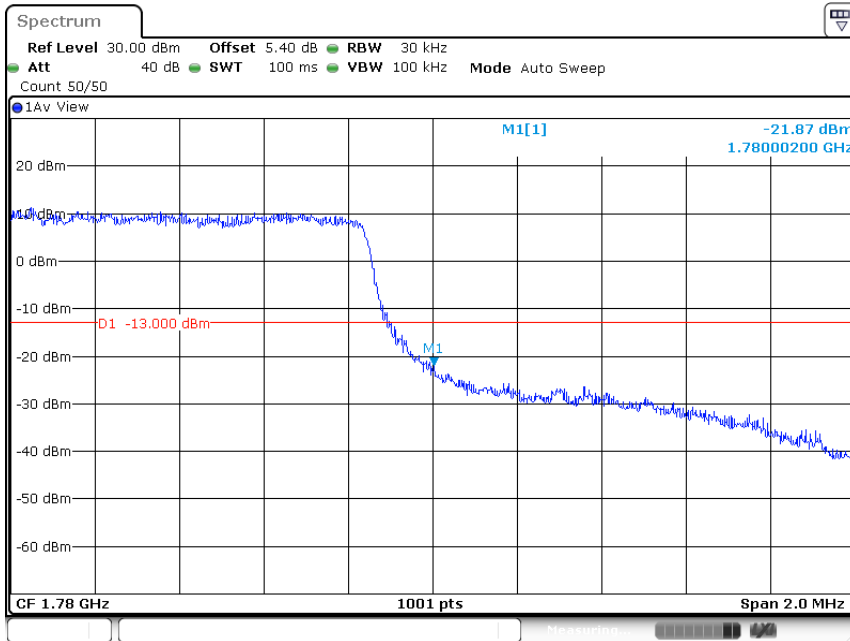


Date: 18 NOV 2020 12:18:56



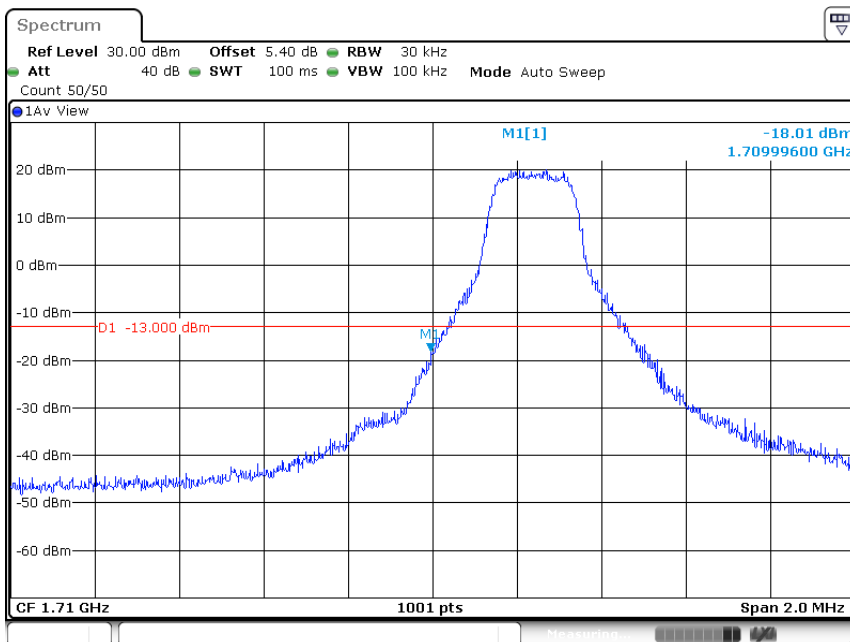
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**Band66-1.4MHz-16QAM-132665-6RB#0**



Date: 18 NOV 2020 12:19:16

**Band66-3MHz-QPSK-131987-1RB#0**



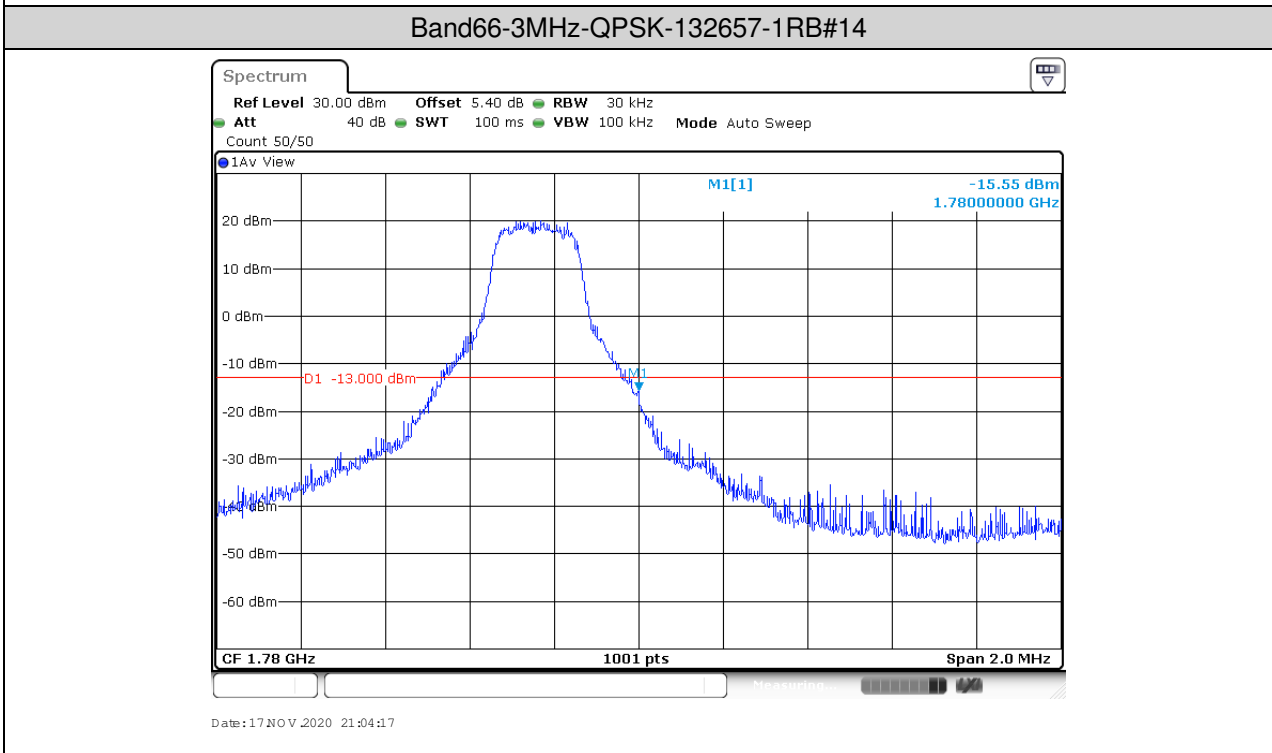
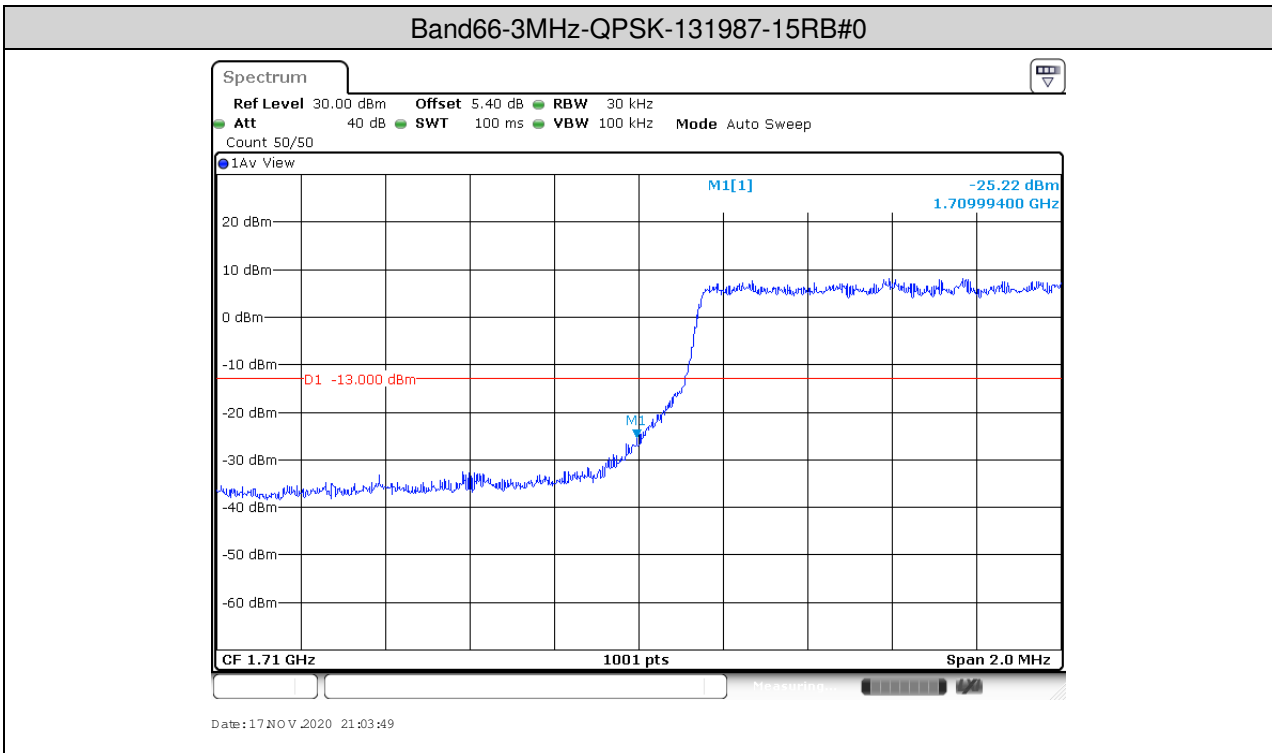
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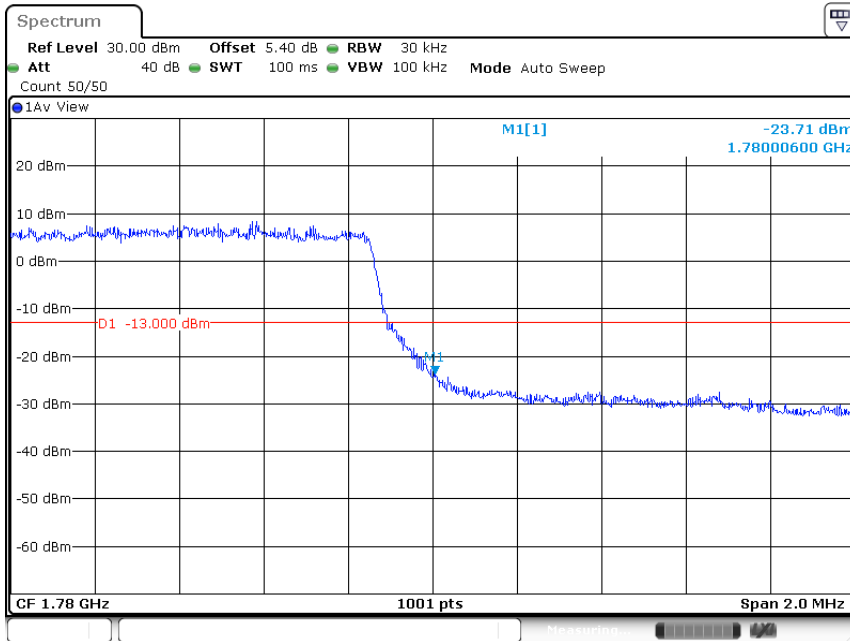




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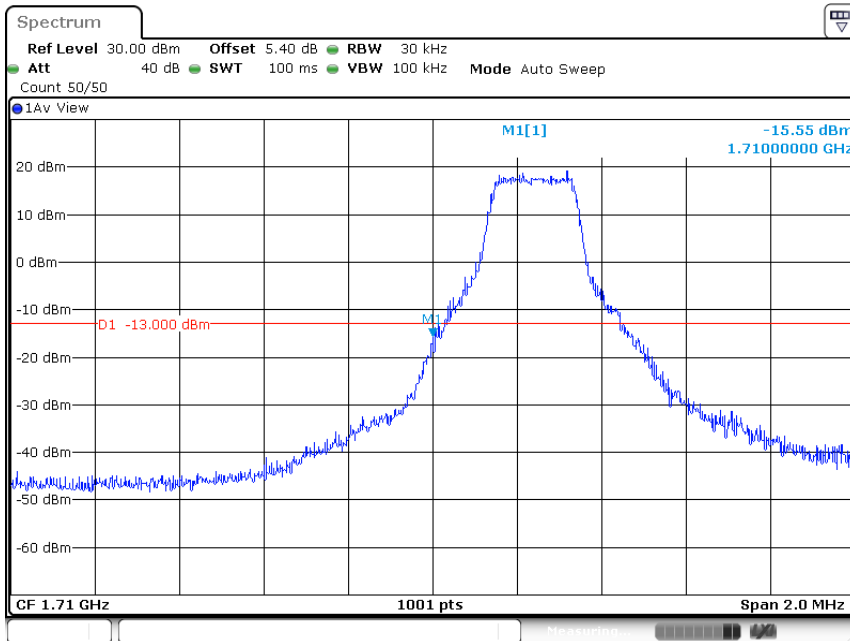
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**Band66-3MHz-QPSK-132657-15RB#0**



Date: 17 NOV 2020 21:04:36

**Band66-3MHz-16QAM-131987-1RB#0**



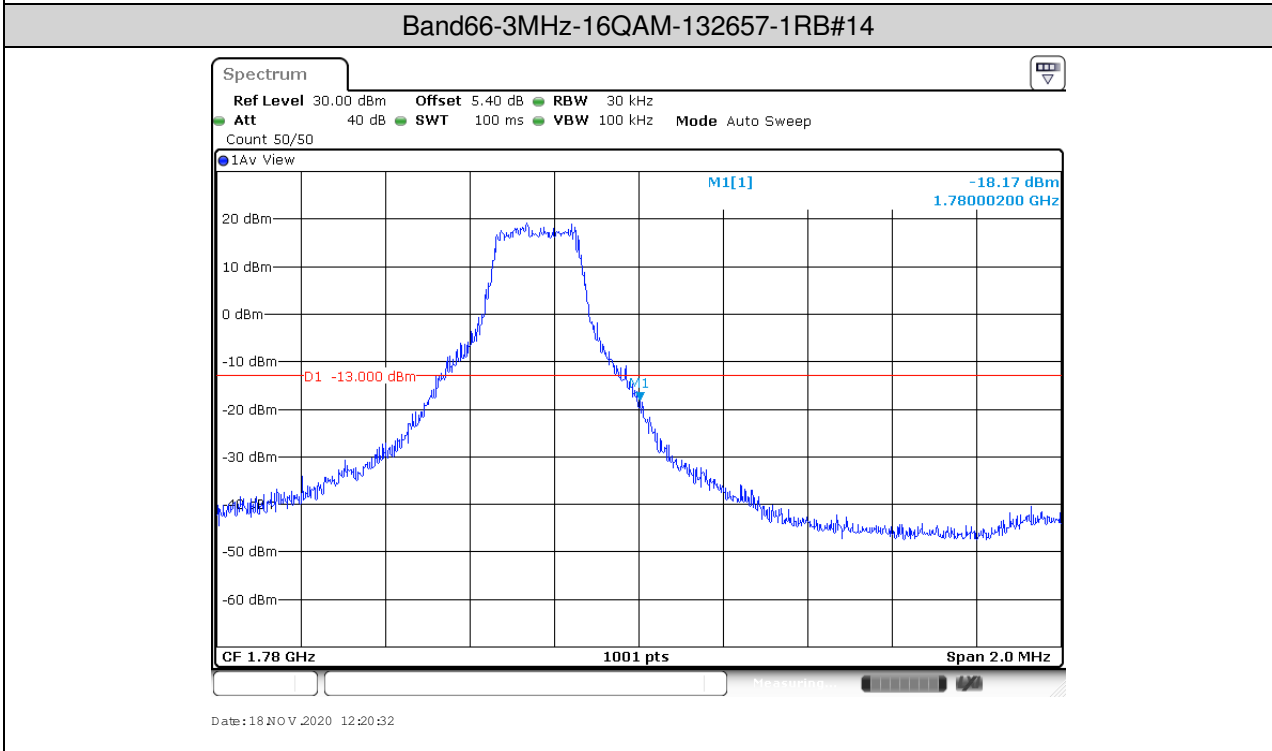
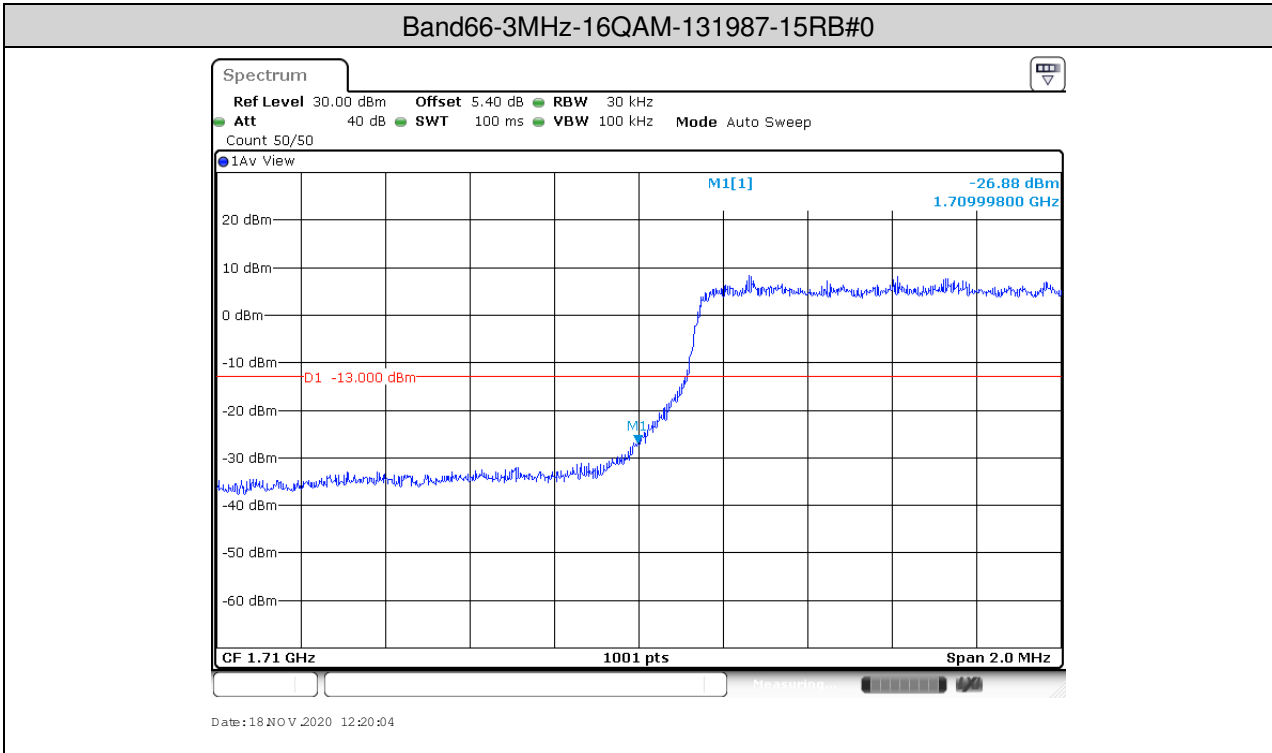
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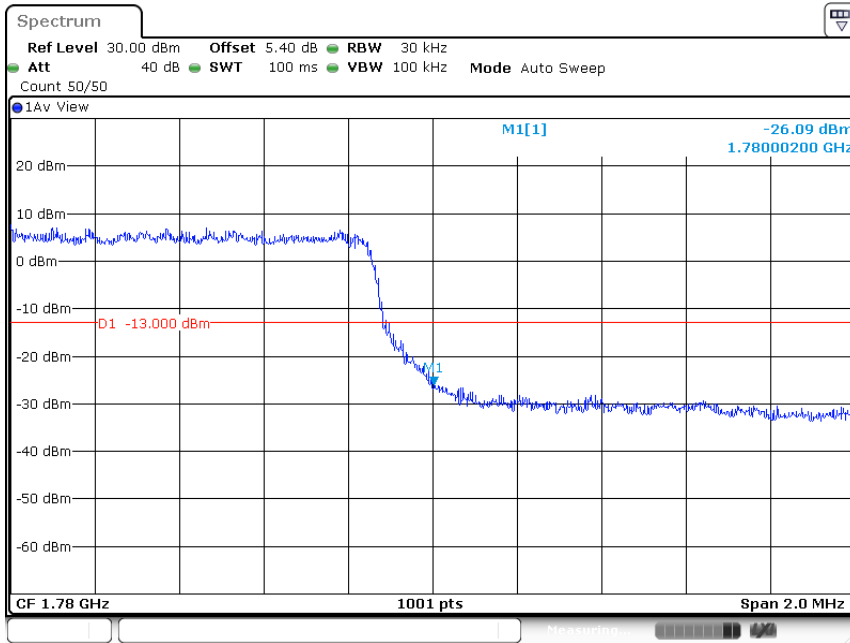


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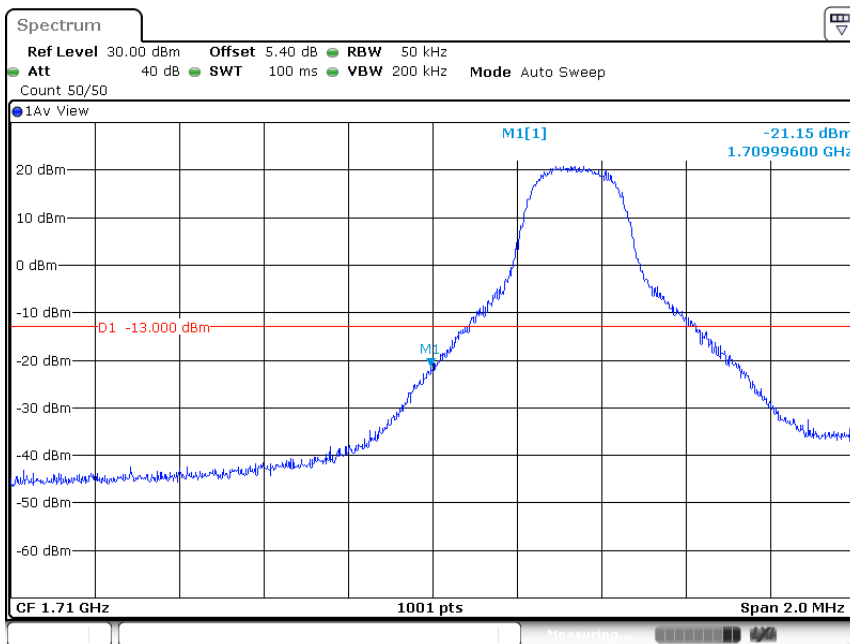
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**Band66-3MHz-16QAM-132657-15RB#0**



Date: 18 NOV 2020 12:20:52

**Band66-5MHz-QPSK-131997-1RB#0**

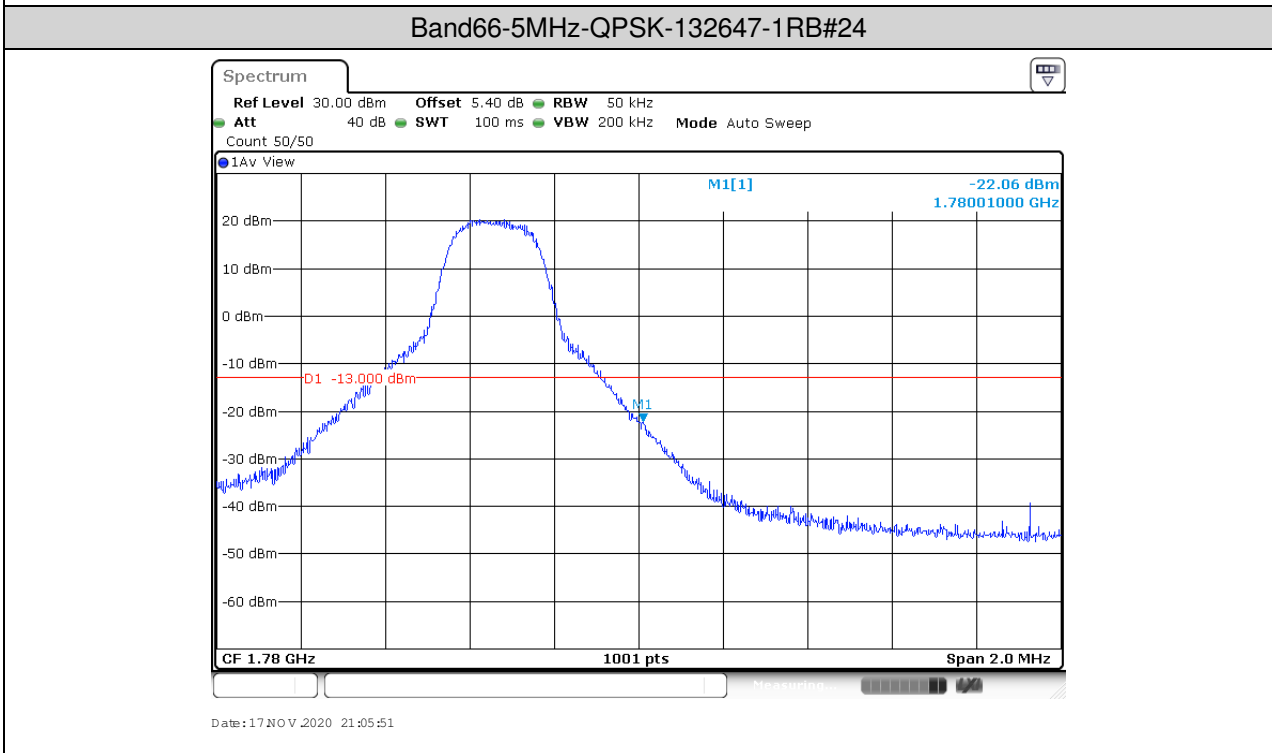
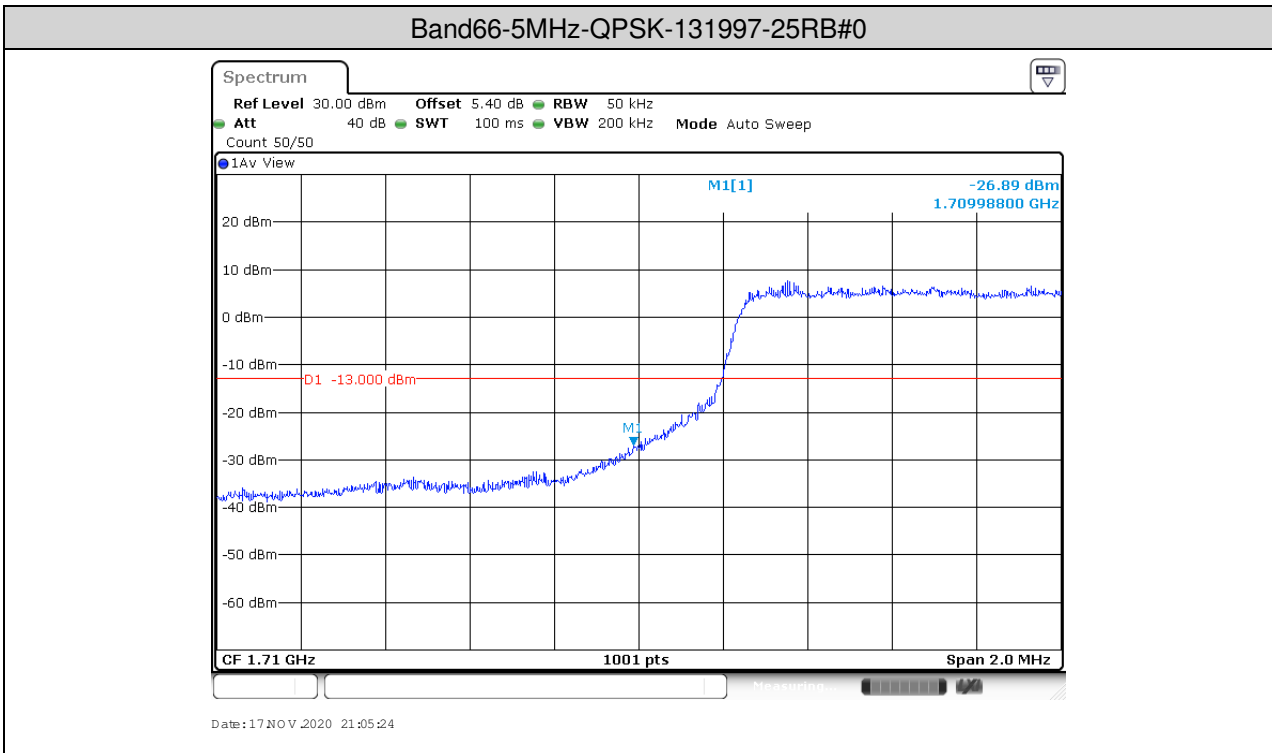


Date: 17 NOV 2020 21:05:04



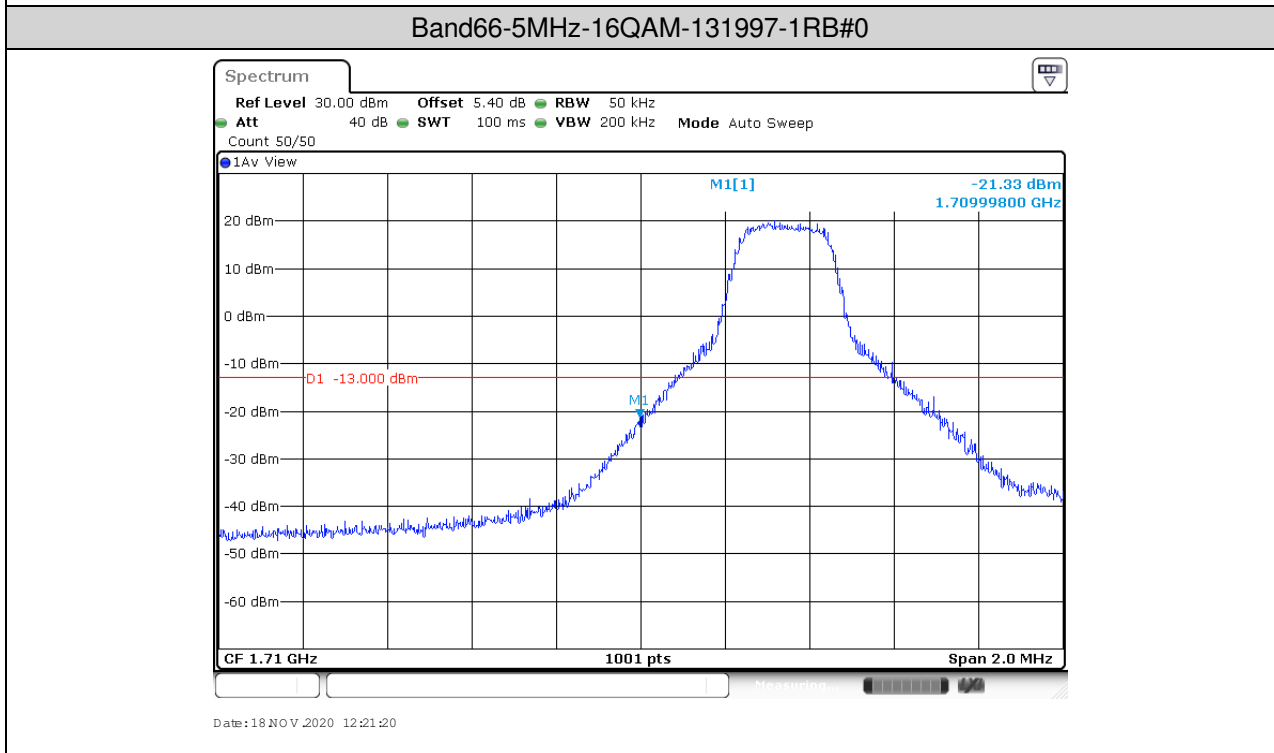
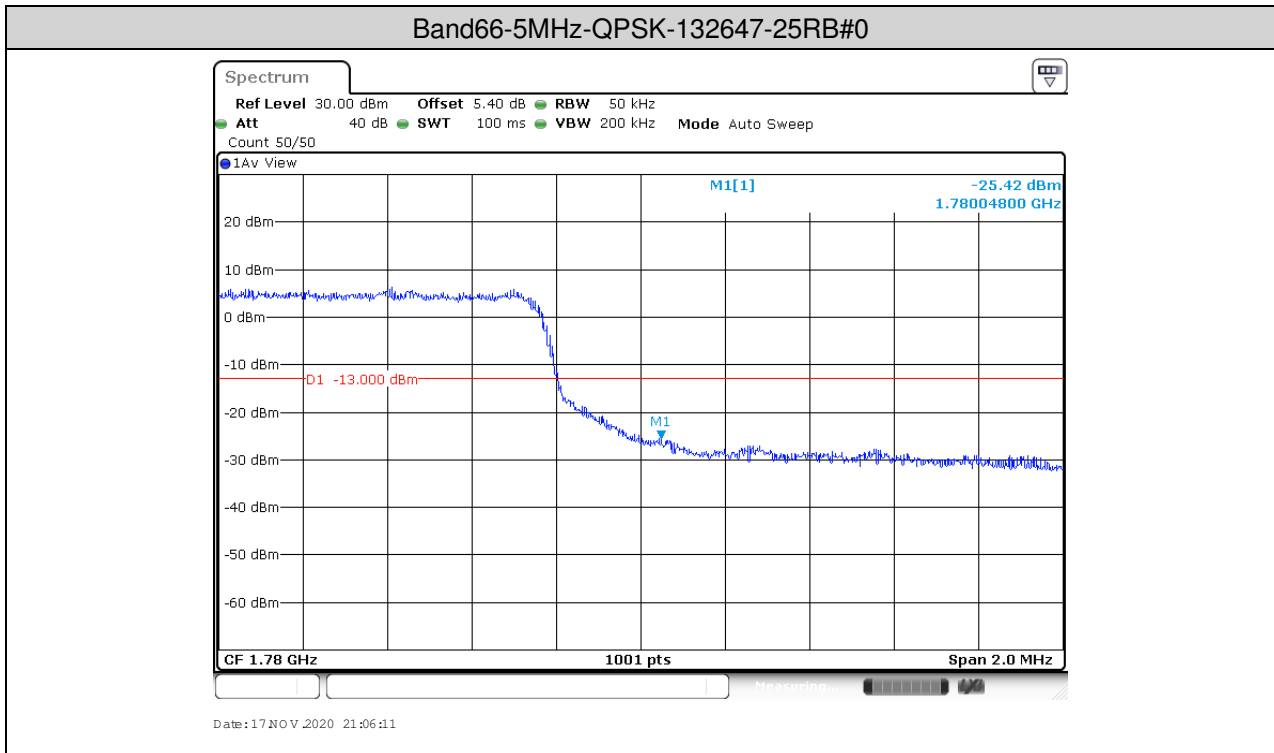
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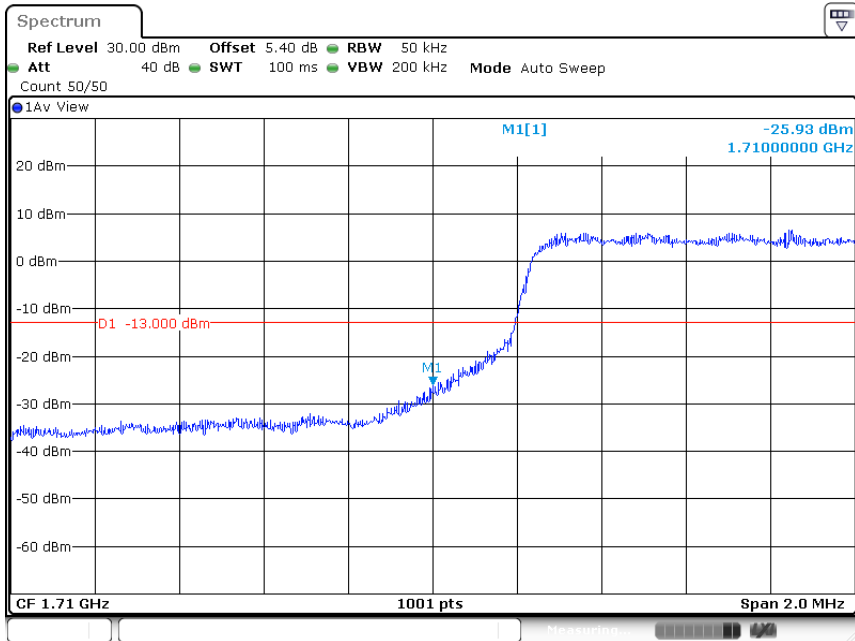
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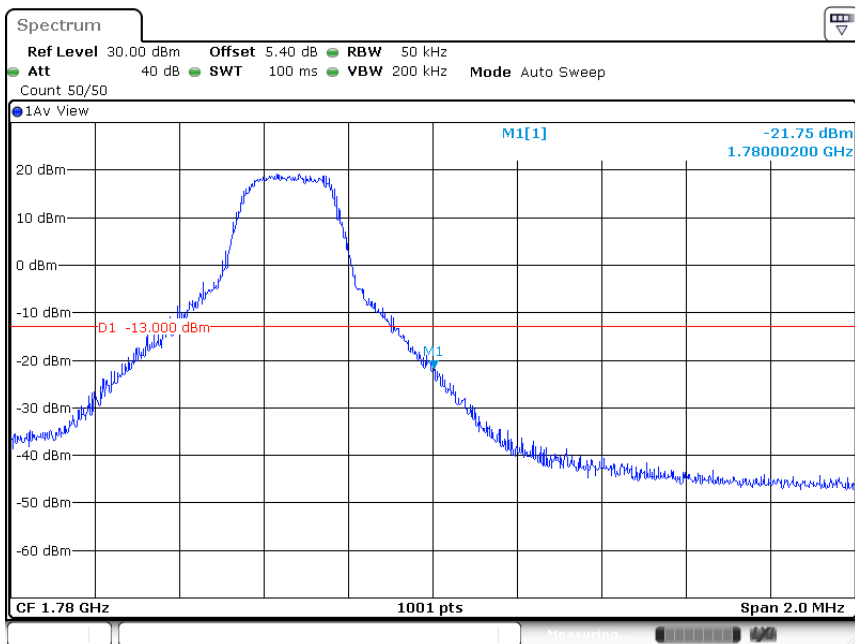
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**Band66-5MHz-16QAM-131997-25RB#0**



Date: 18 NOV 2020 12:21:40

**Band66-5MHz-16QAM-132647-1RB#24**

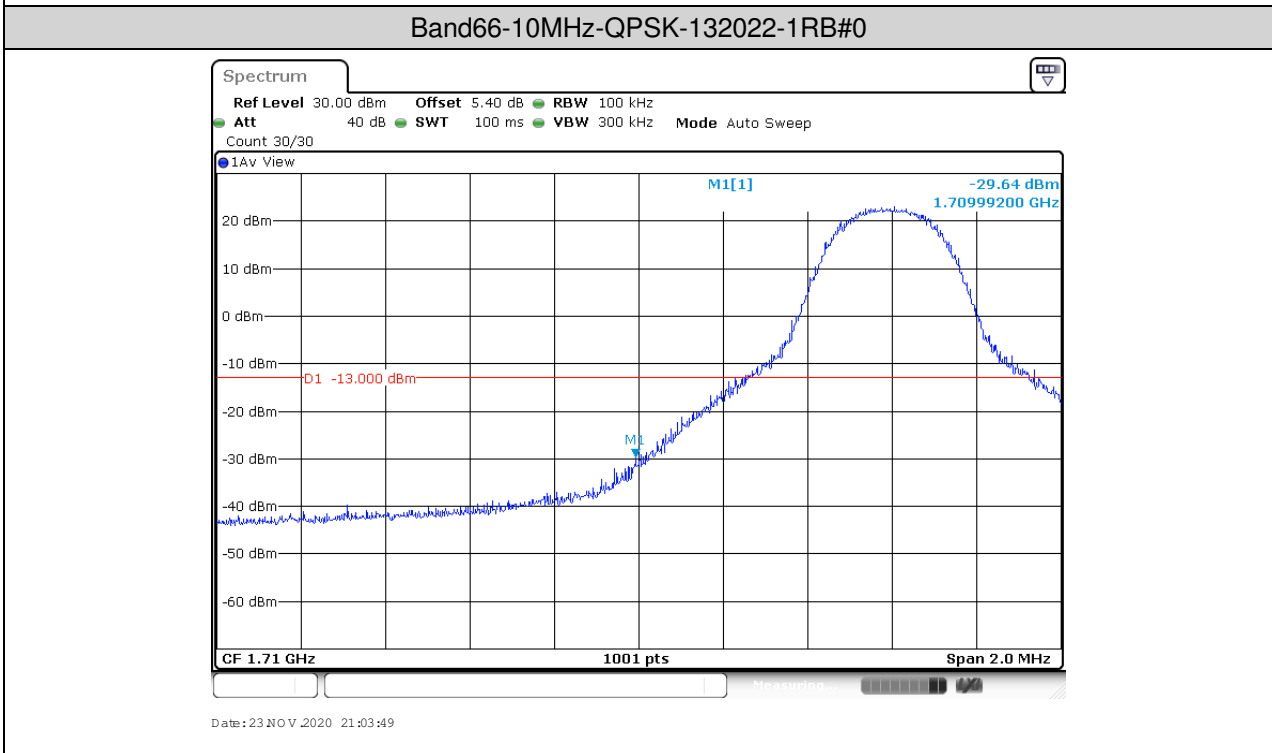
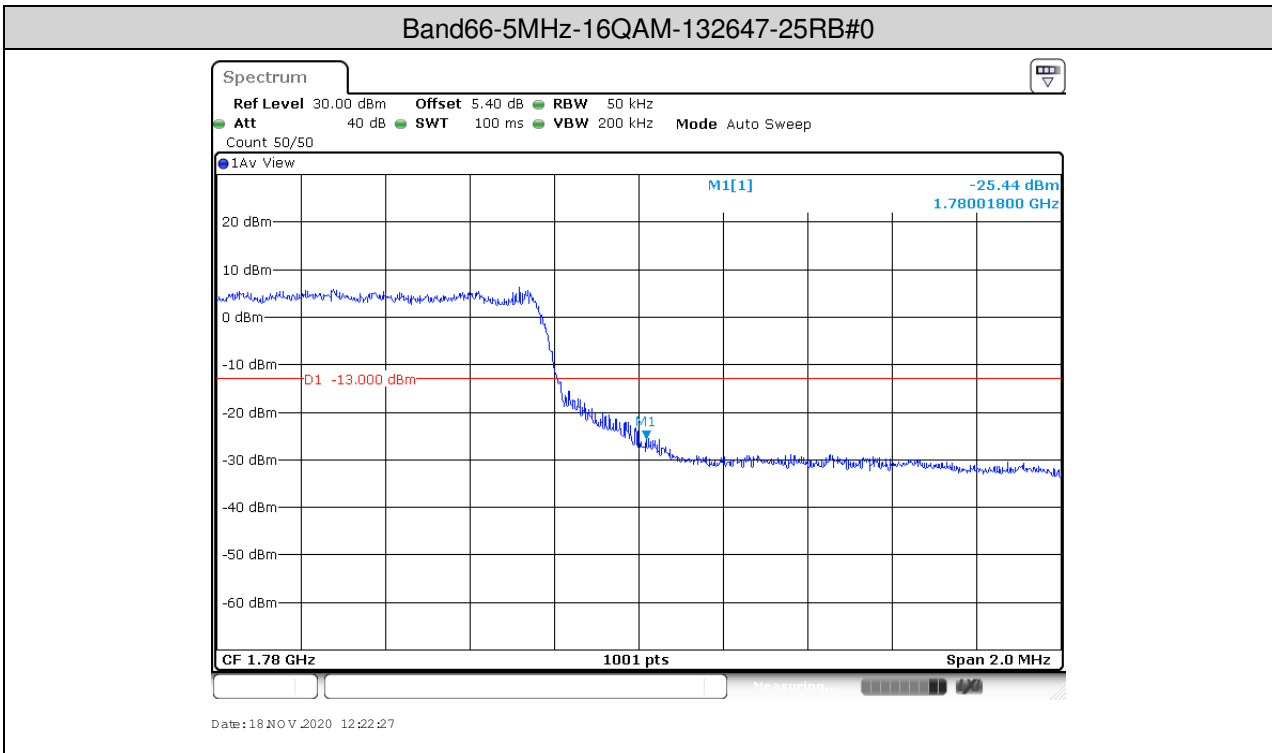


Date: 18 NOV 2020 12:22:07



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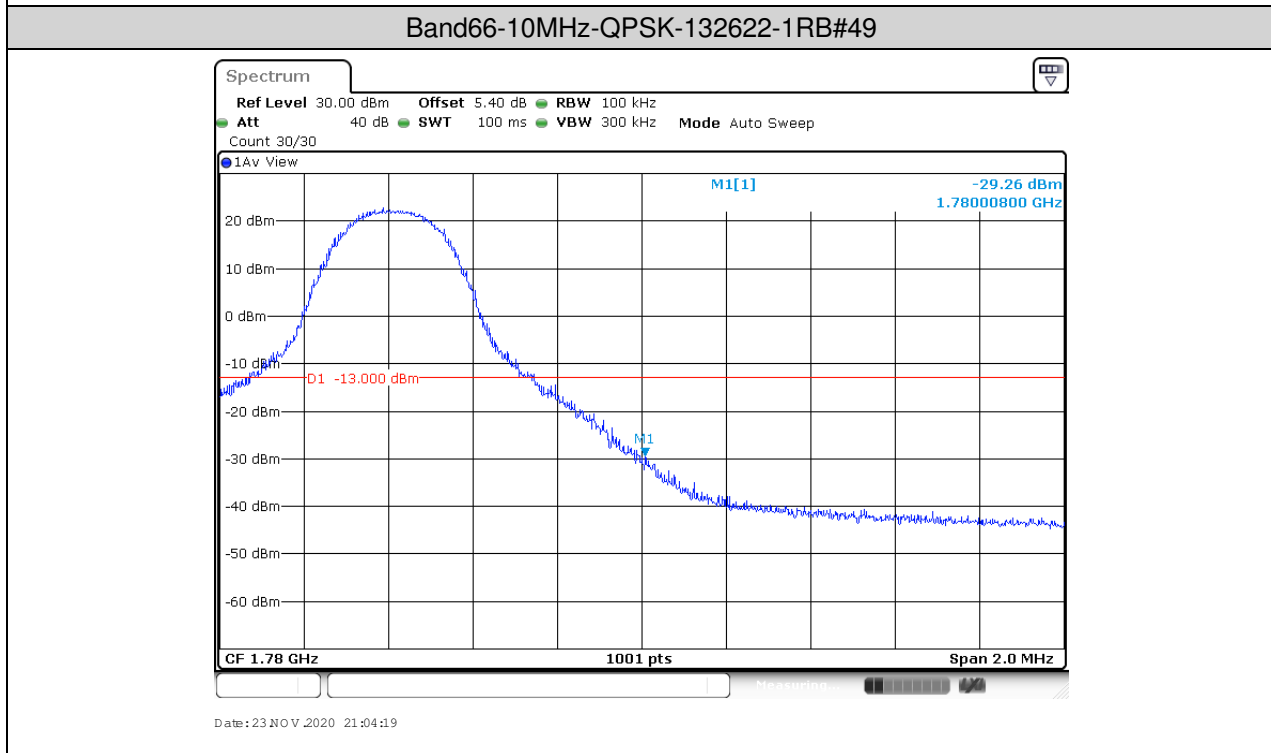
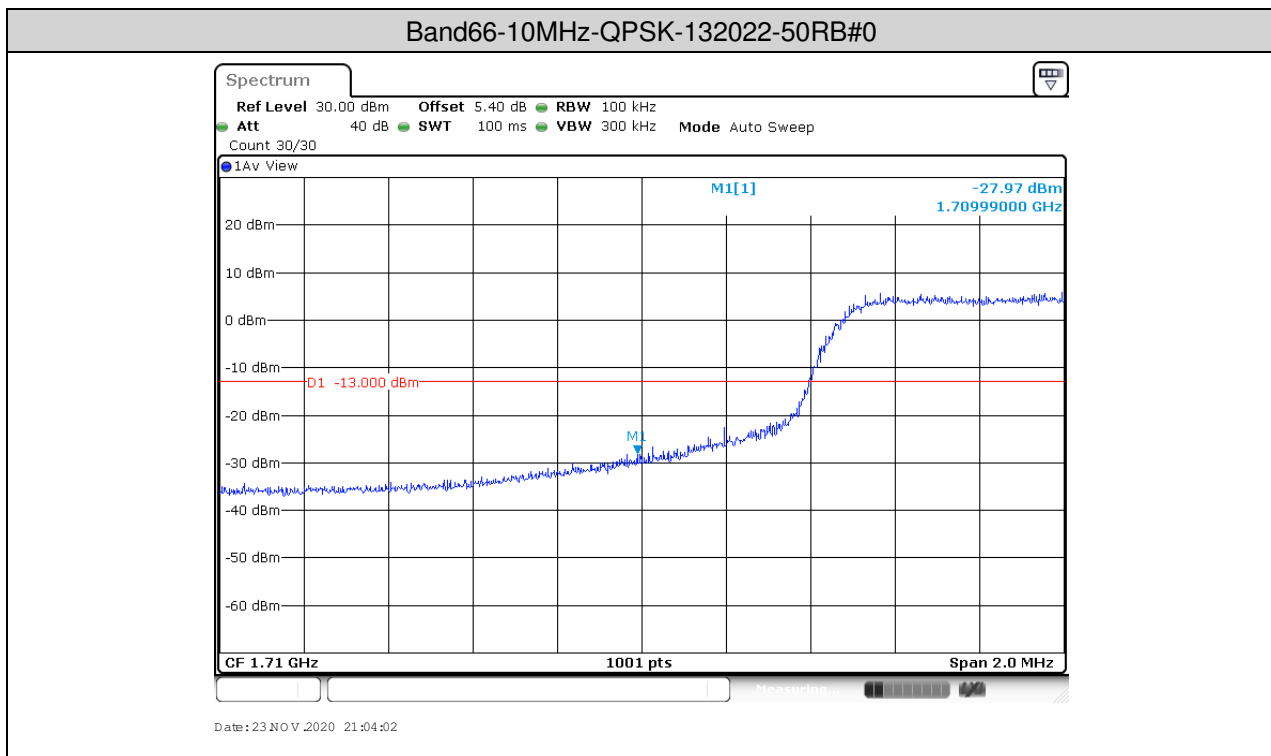
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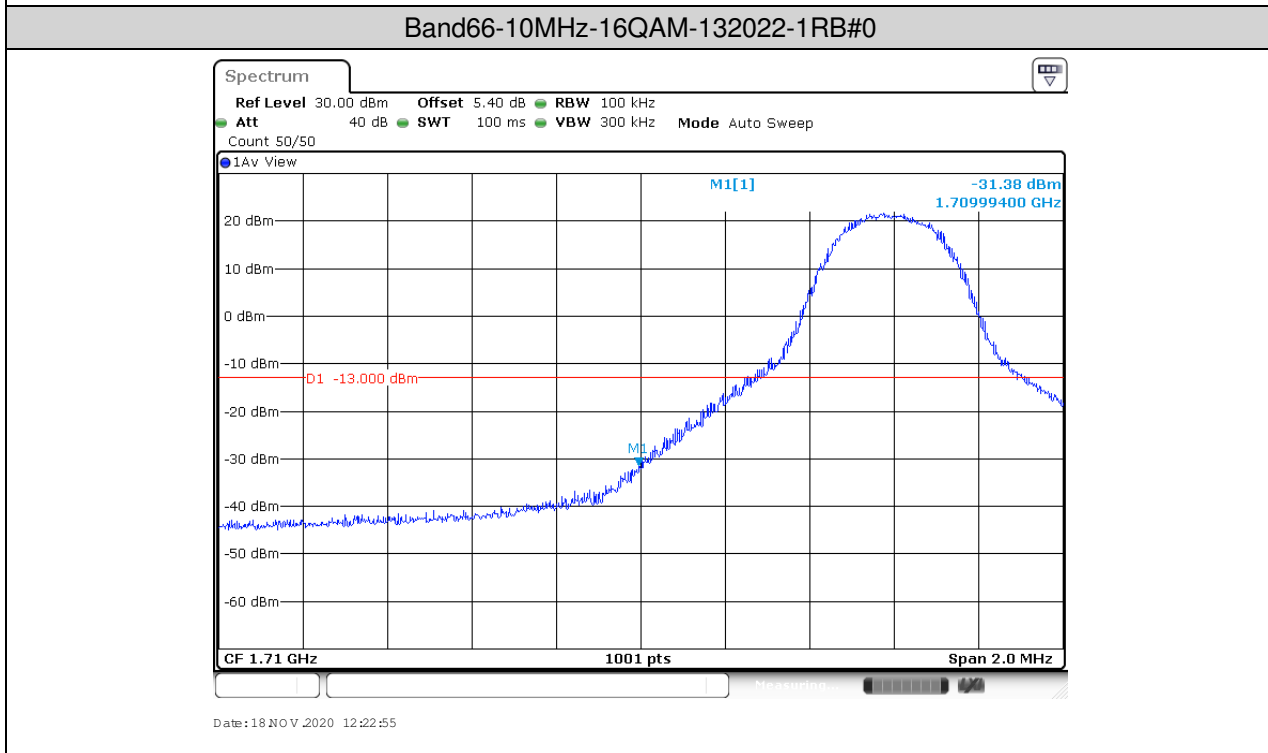
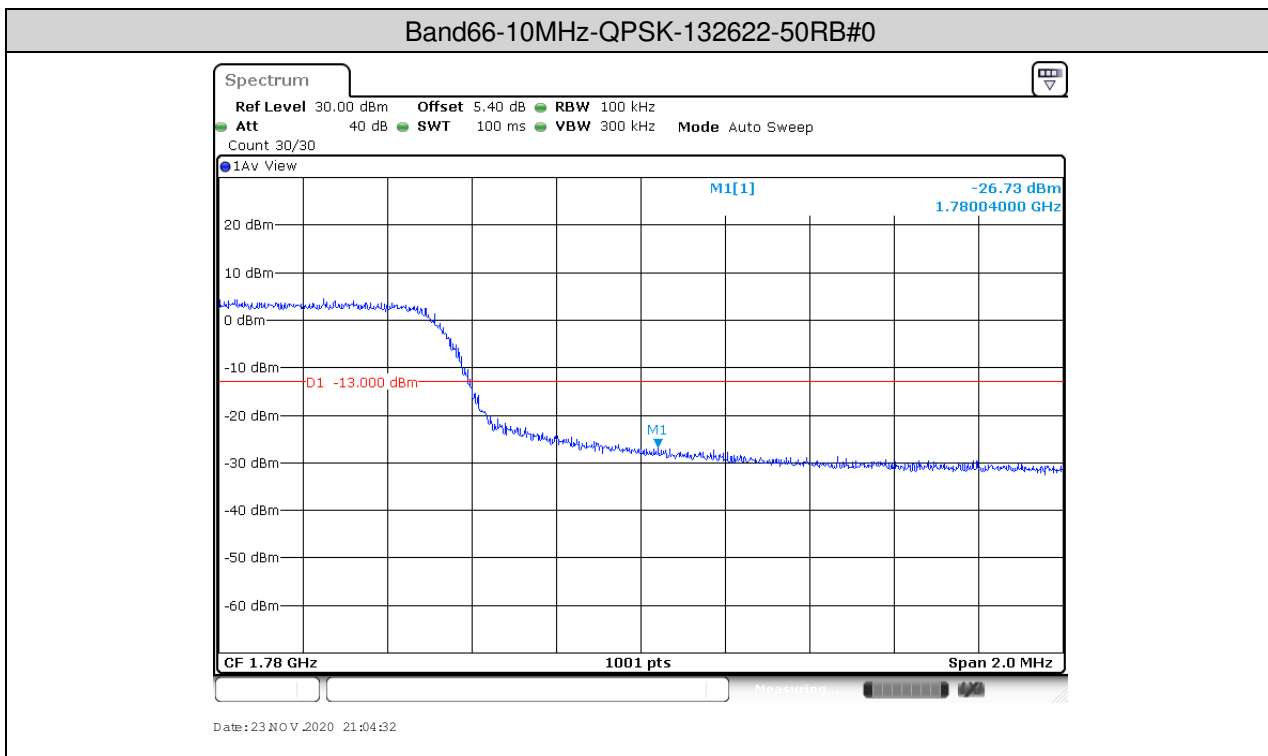
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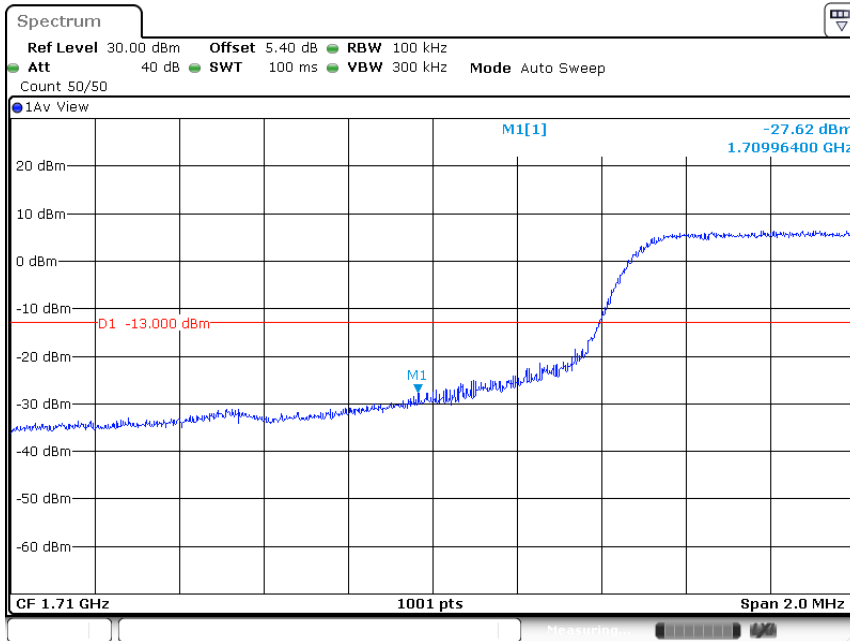
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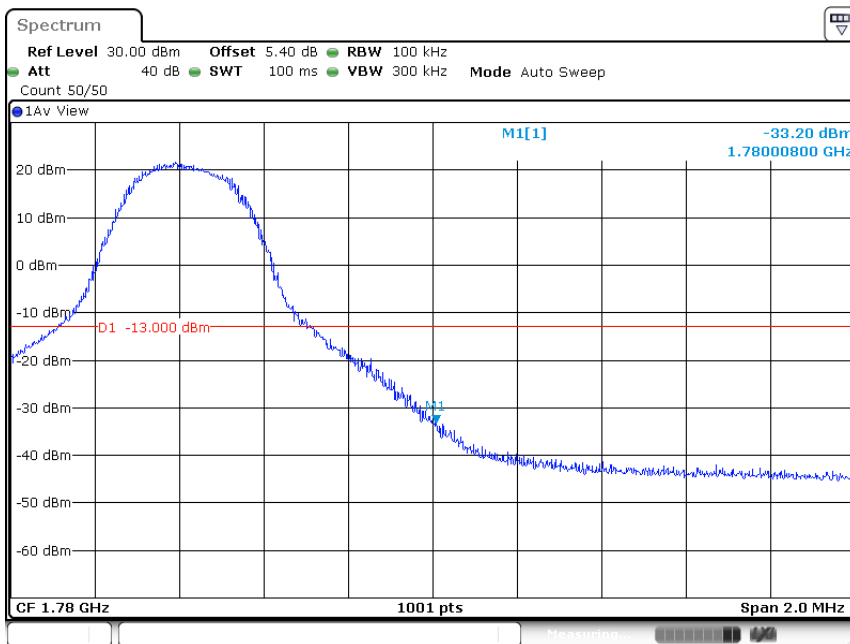
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**Band66-10MHz-16QAM-132022-27RB#0**



Date: 18 NOV 2020 12:23:15

**Band66-10MHz-16QAM-132622-1RB#49**

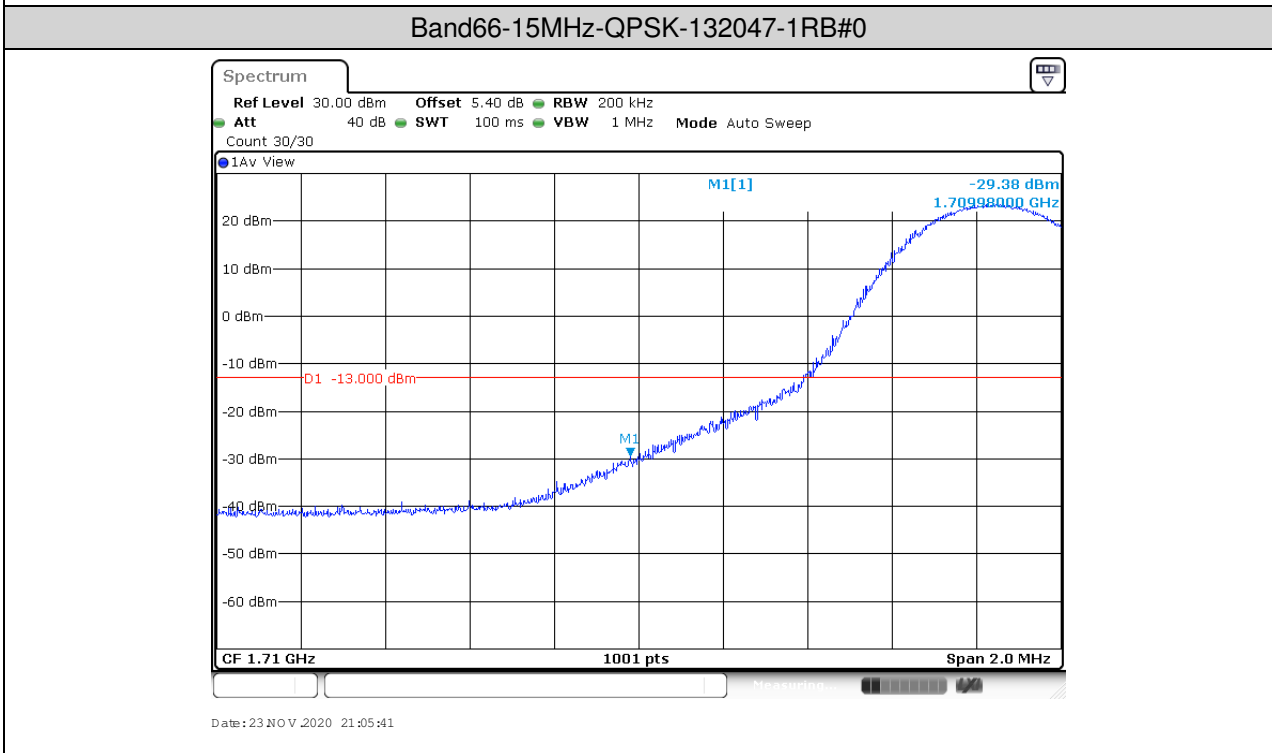
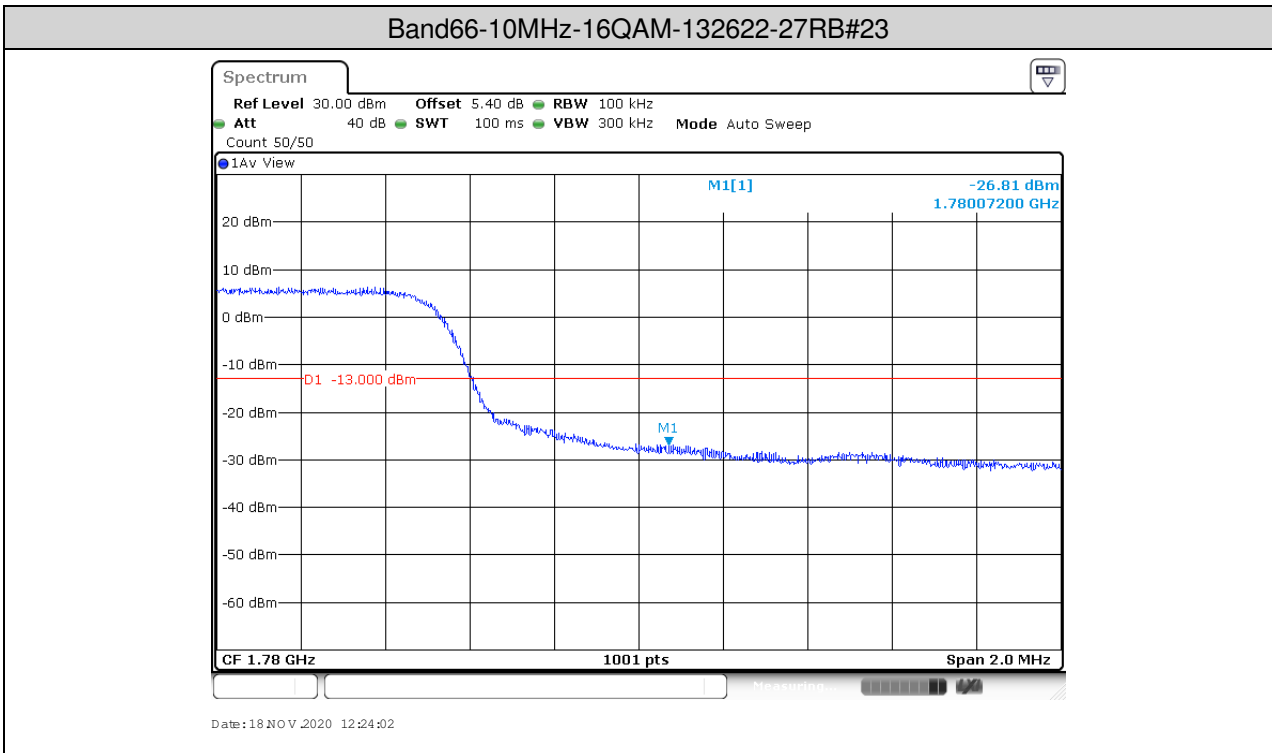


Date: 18 NOV 2020 12:23:42



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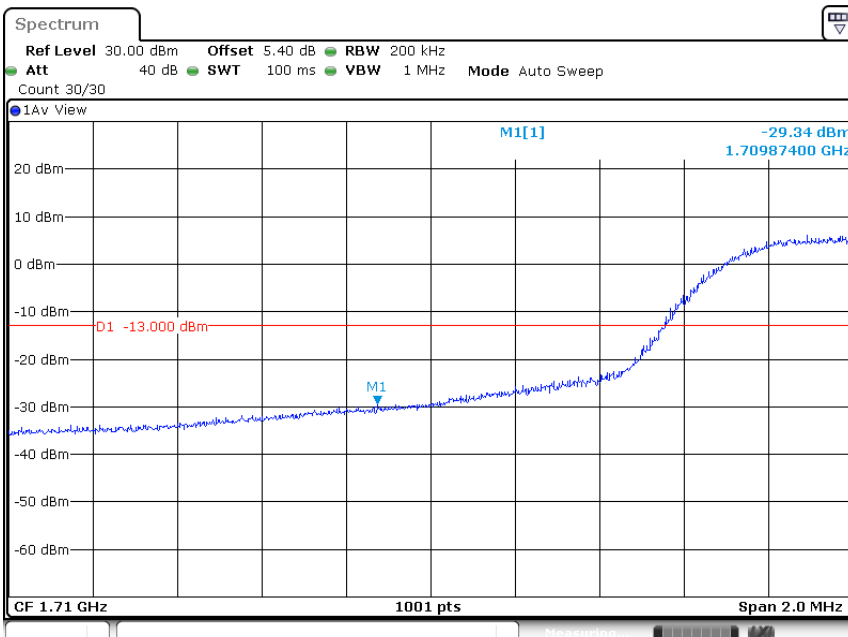
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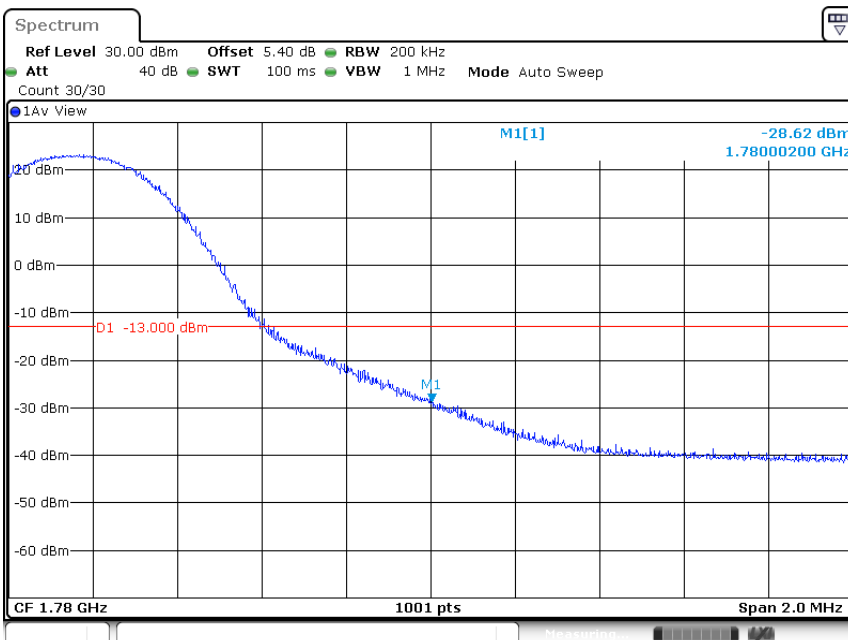
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Band66-15MHz-QPSK-132047-75RB#0



Date: 23 NOV 2020 21:05:56

Band66-15MHz-QPSK-132597-1RB#74

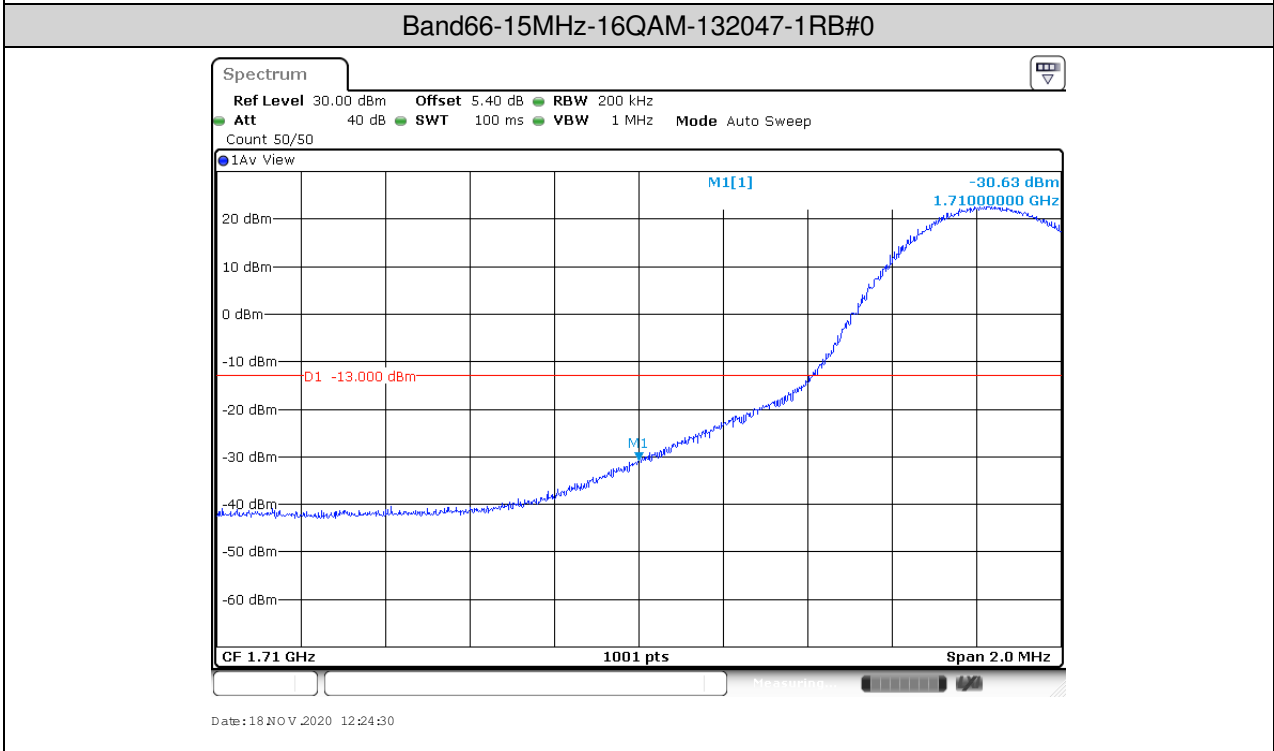
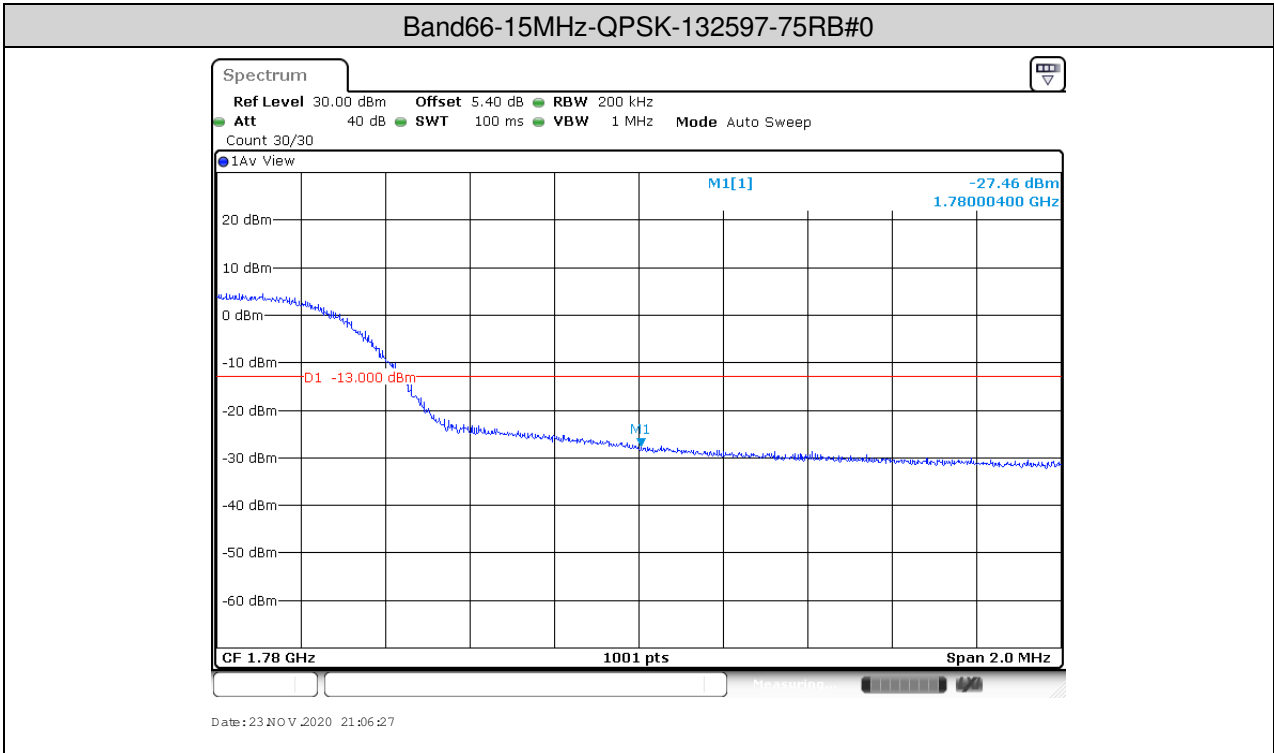


Date: 23 NOV 2020 21:06:14



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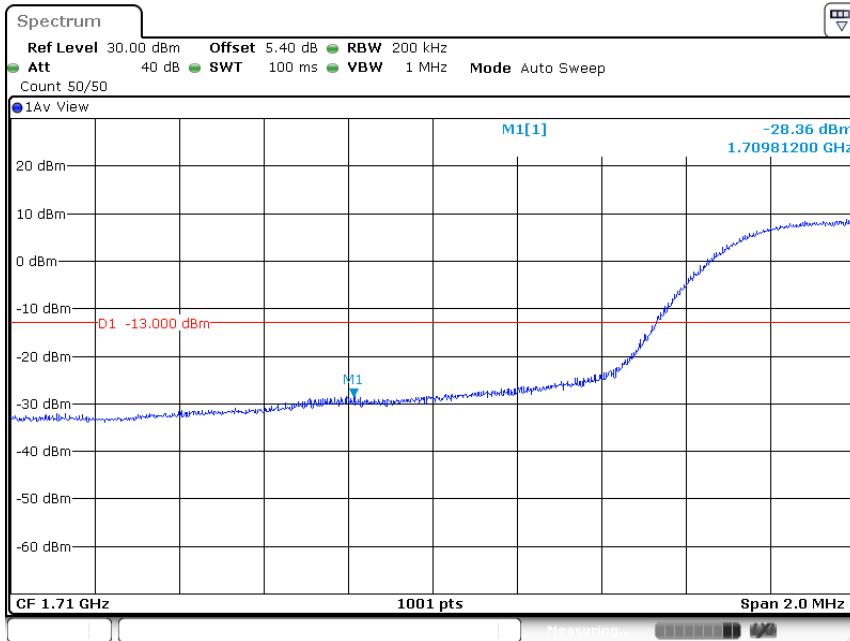
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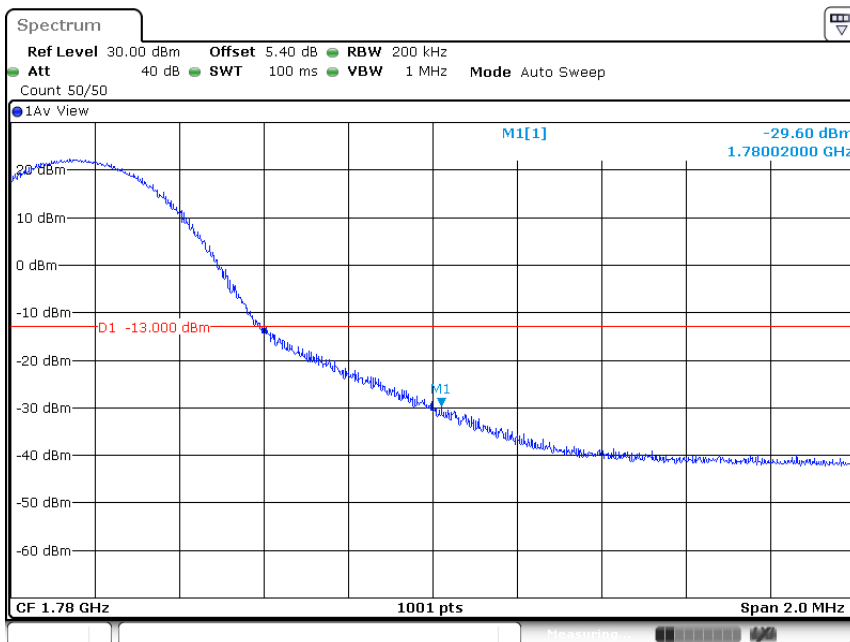
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**Band66-15MHz-16QAM-132047-27RB#0**



Date: 18 NOV 2020 12:24:49

**Band66-15MHz-16QAM-132597-1RB#74**



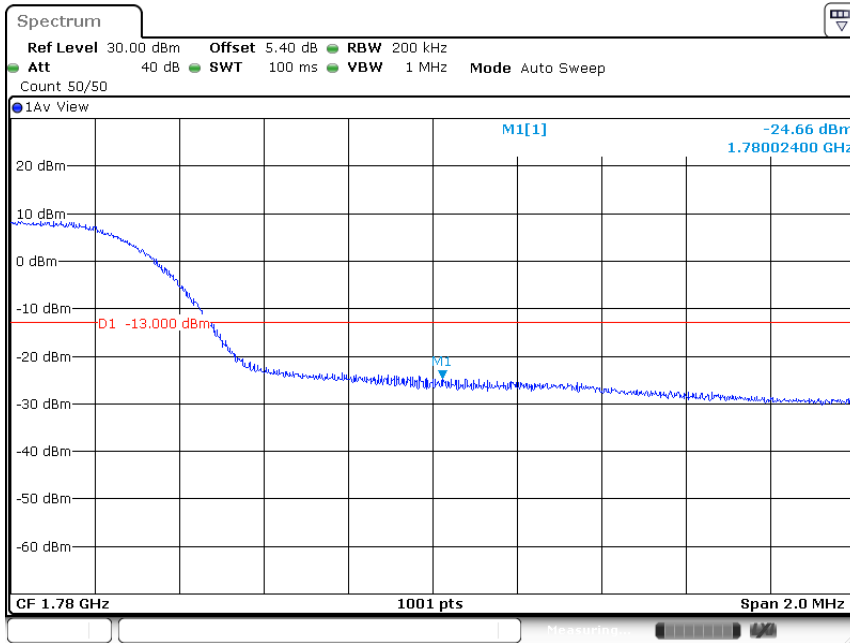
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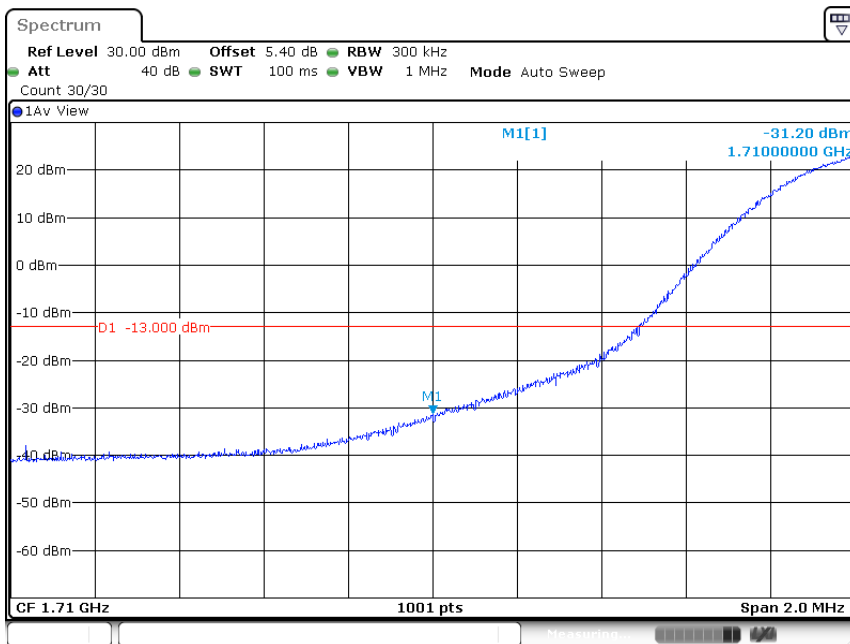
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**Band66-15MHz-16QAM-132597-27RB#48**



Date: 18 NOV 2020 12:25:37

**Band66-20MHz-QPSK-132072-1RB#0**



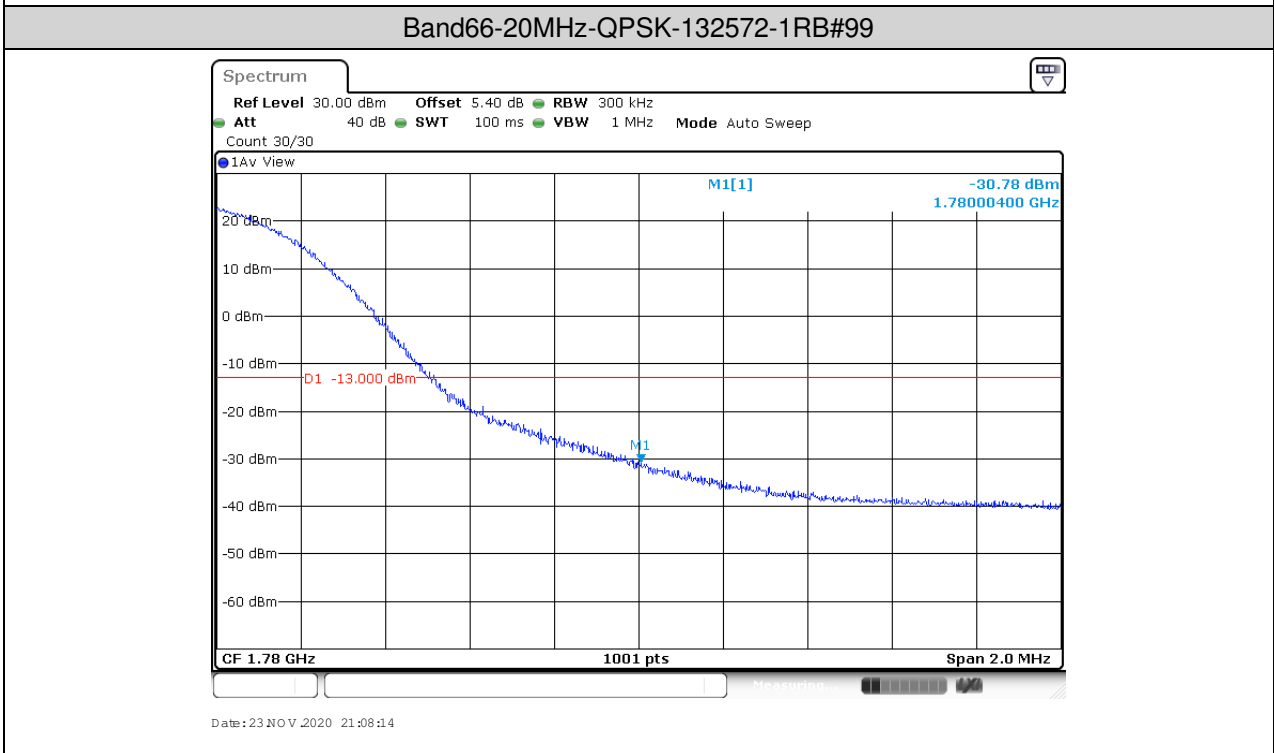
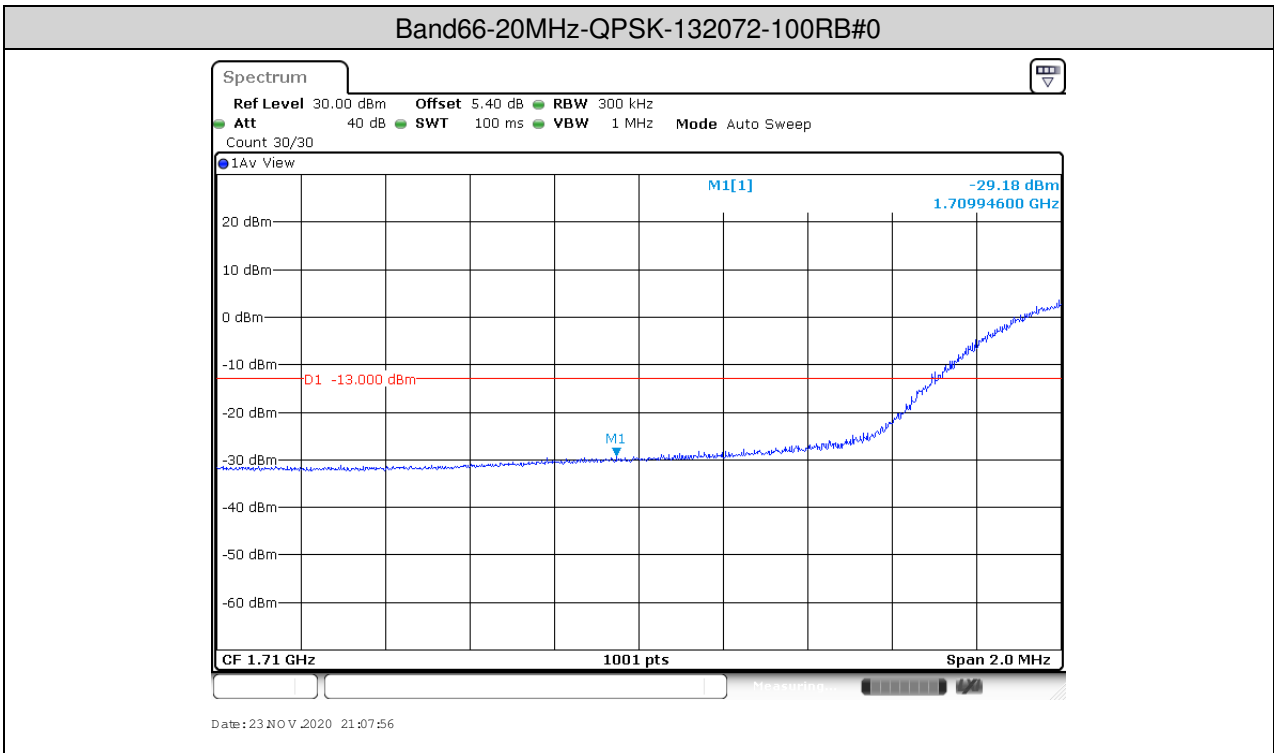
Date: 23 NOV 2020 21:07:38



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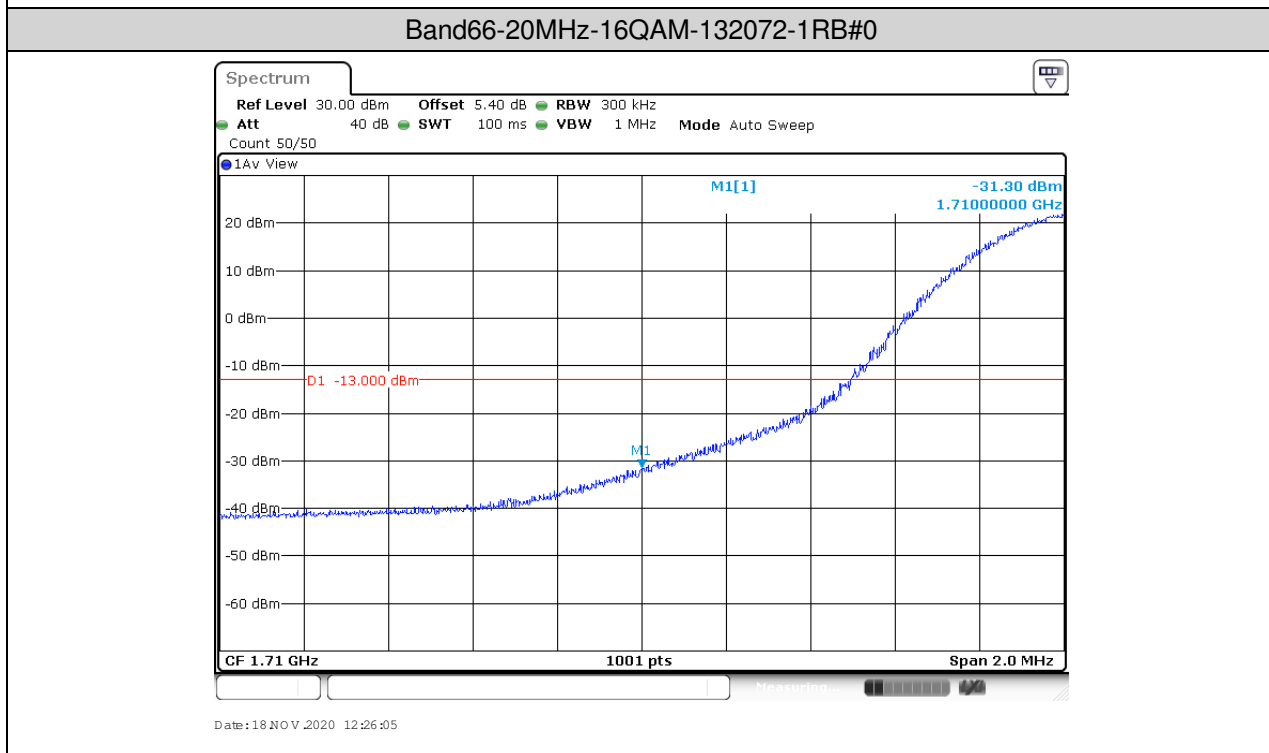
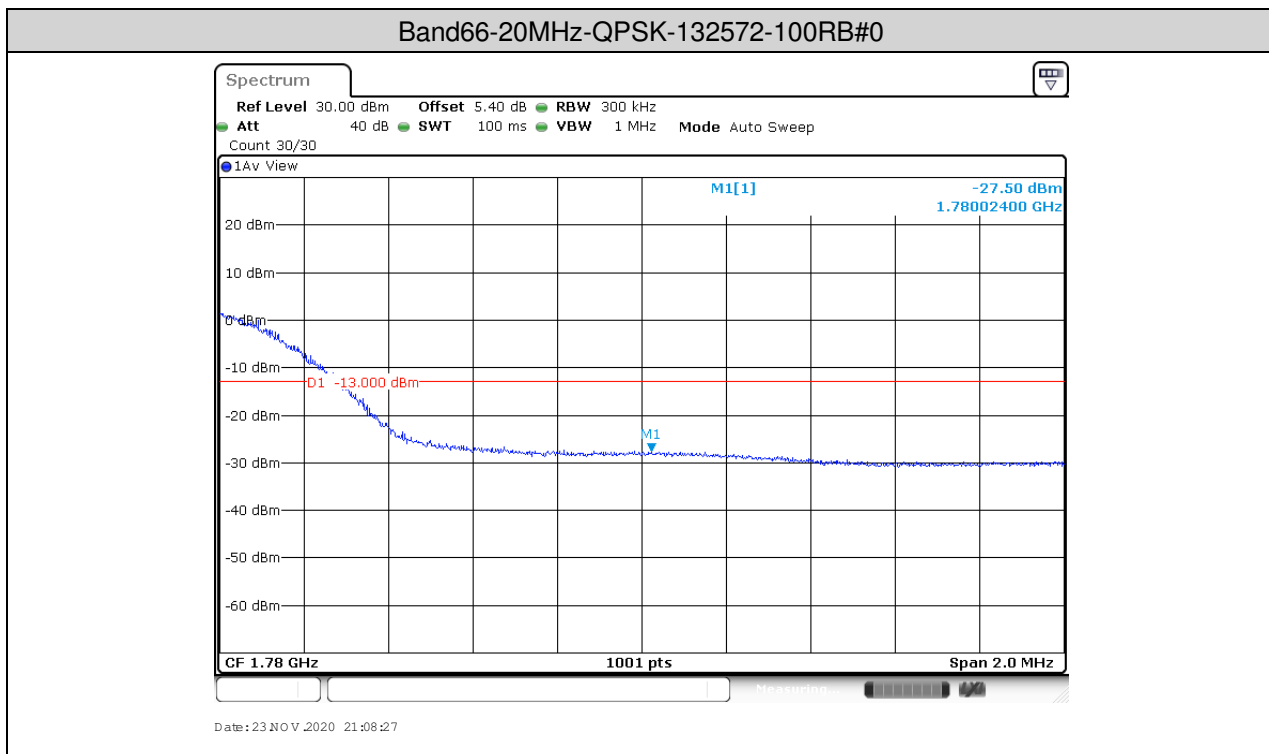
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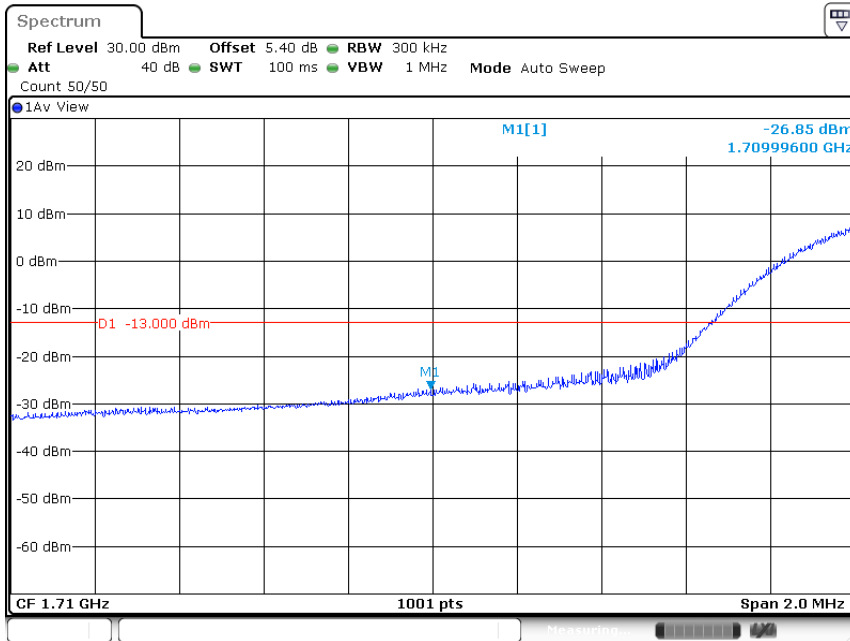


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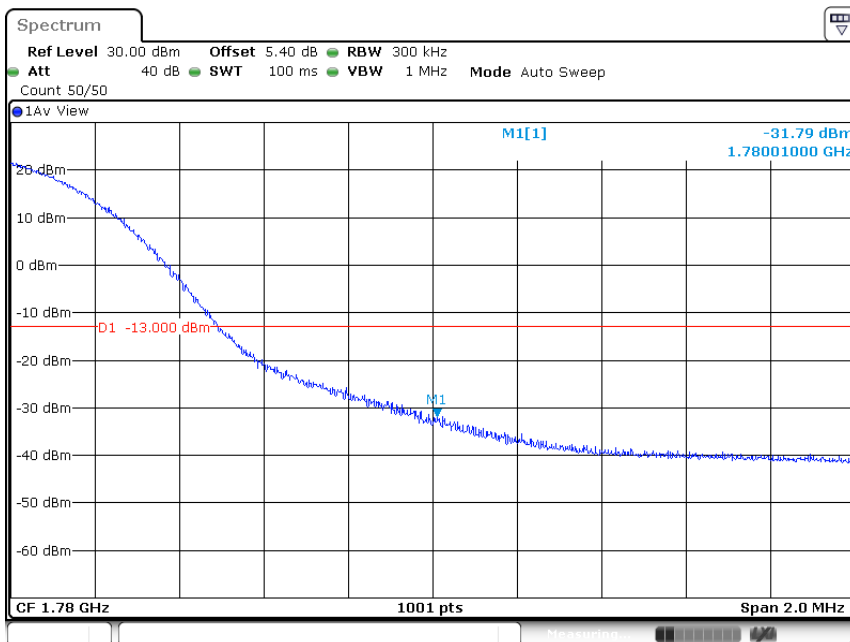
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**Band66-20MHz-16QAM-132072-27RB#0**



Date: 18 NOV 2020 12:26:24

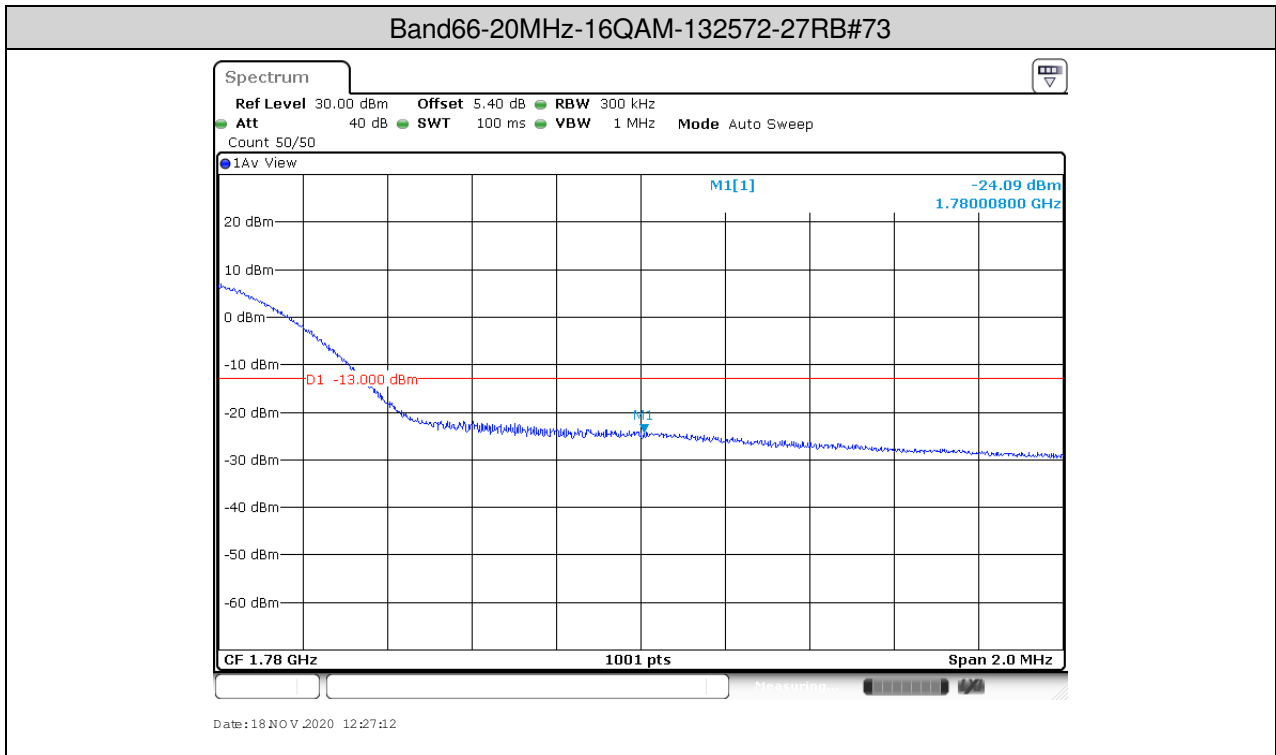
**Band66-20MHz-16QAM-132572-1RB#99**



Date: 18 NOV 2020 12:26:52



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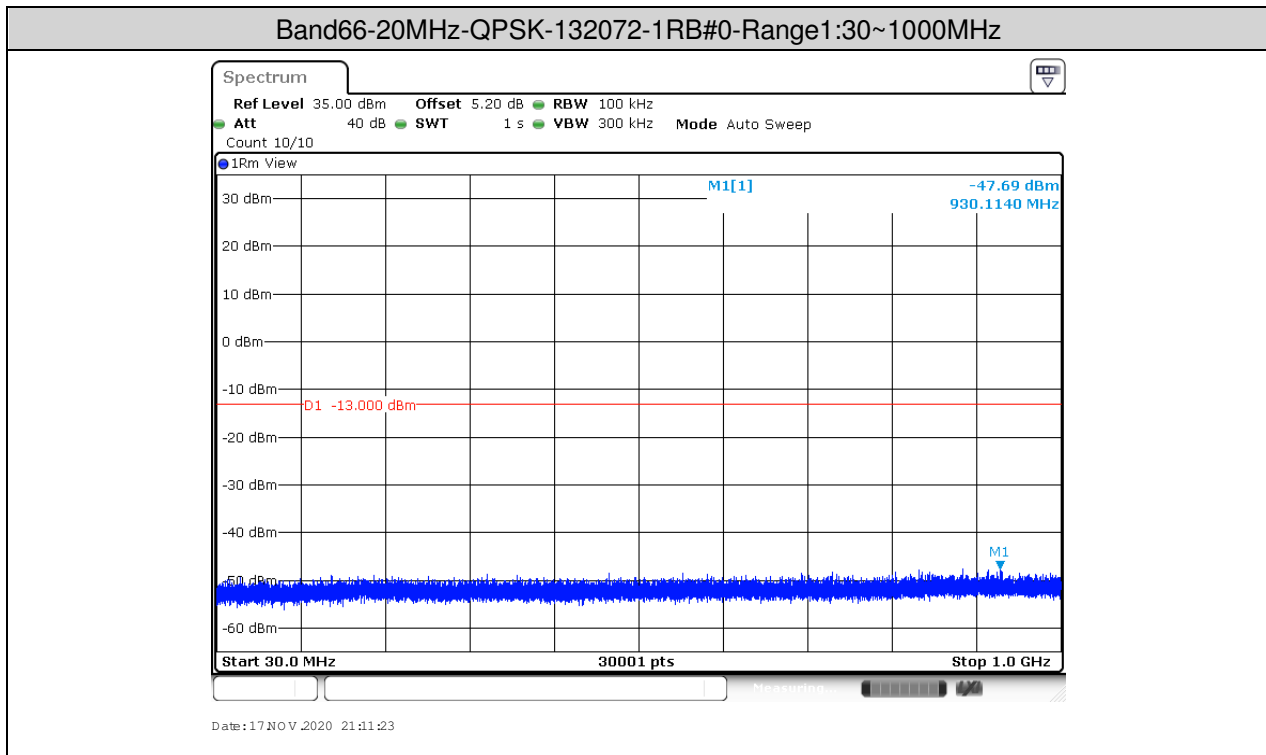
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## 6 Spurious Emission at Antenna Terminal

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  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

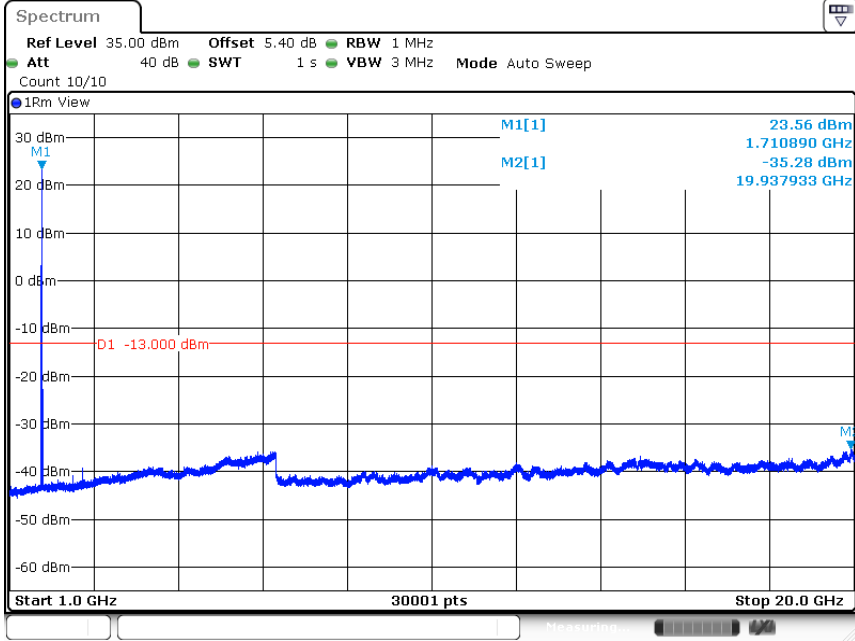
### 6.1 Test Plots



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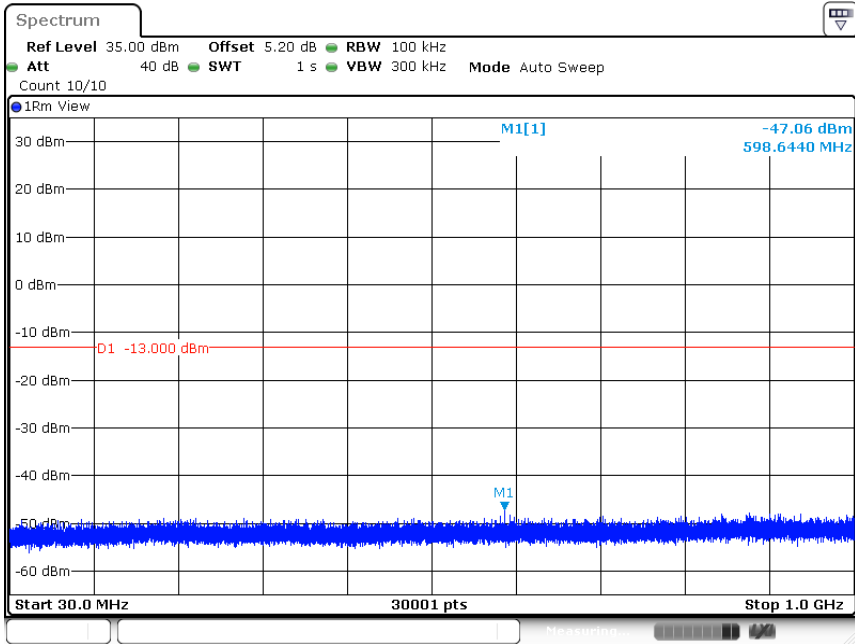
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**Band66-20MHz-QPSK-132072-1RB#0-Range2:1000~20000MHz**



Date: 17 NOV 2020 21:11:43

**Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1000MHz**

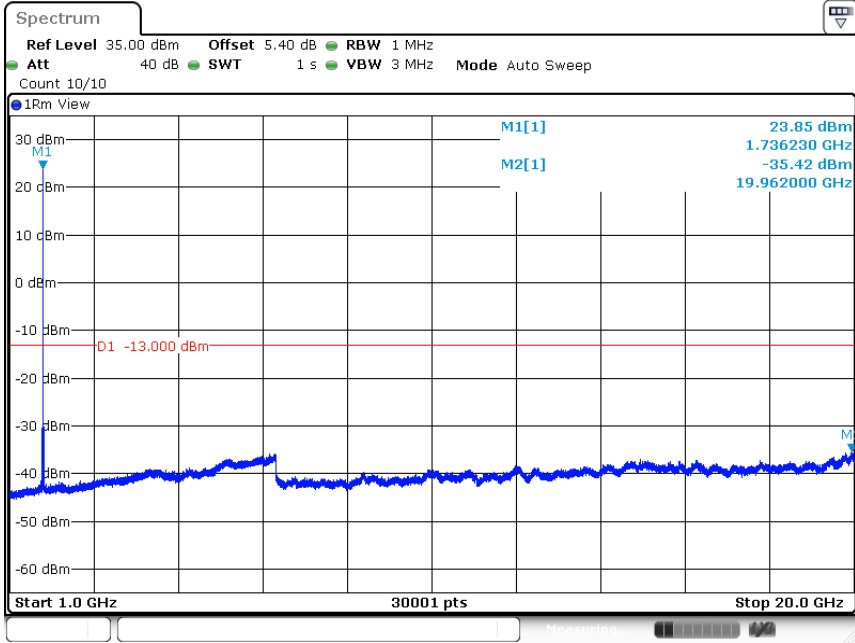


Date: 17 NOV 2020 21:12:08



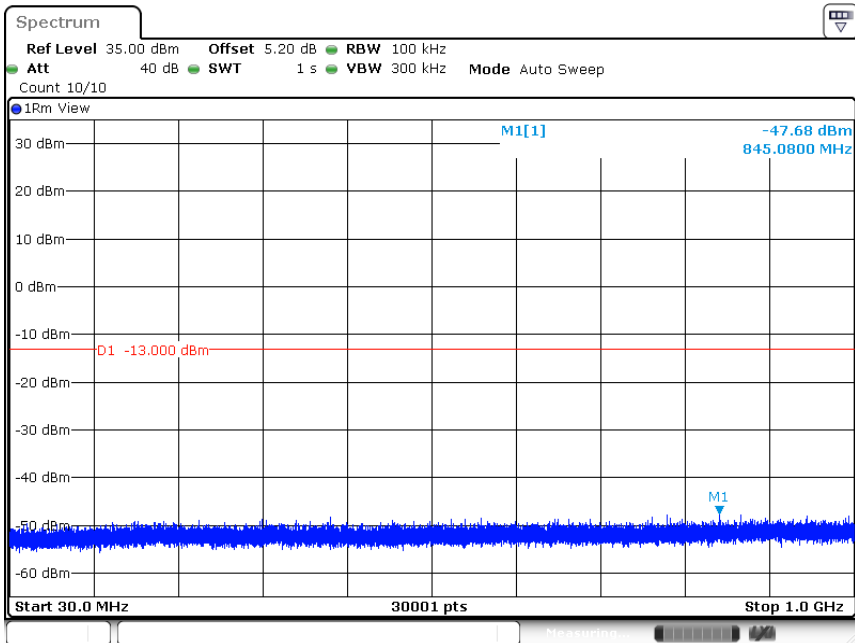
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**Band66-20MHz-QPSK-132322-1RB#0-Range2:1000~20000MHz**



Date: 17 NOV 2020 21:12:27

**Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1000MHz**

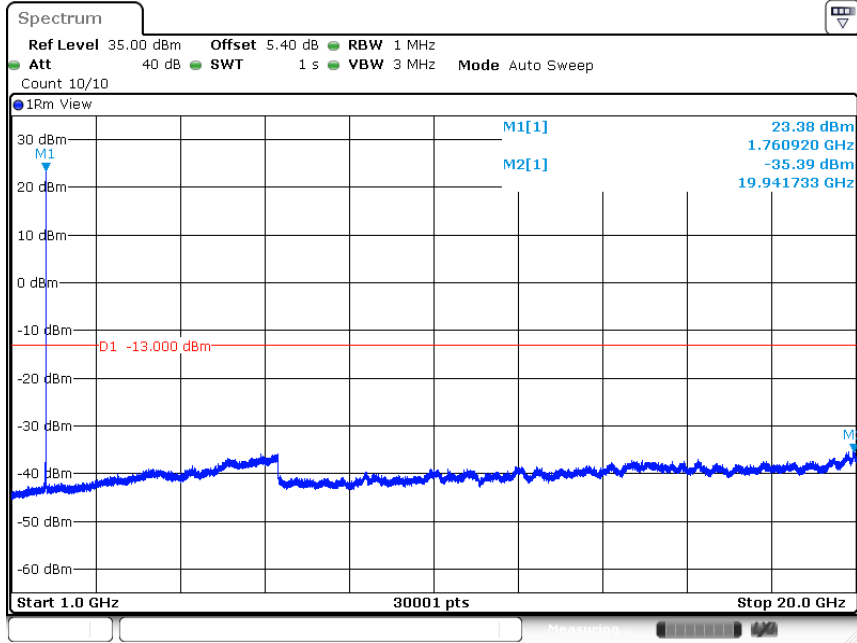


Date: 17 NOV 2020 21:12:52



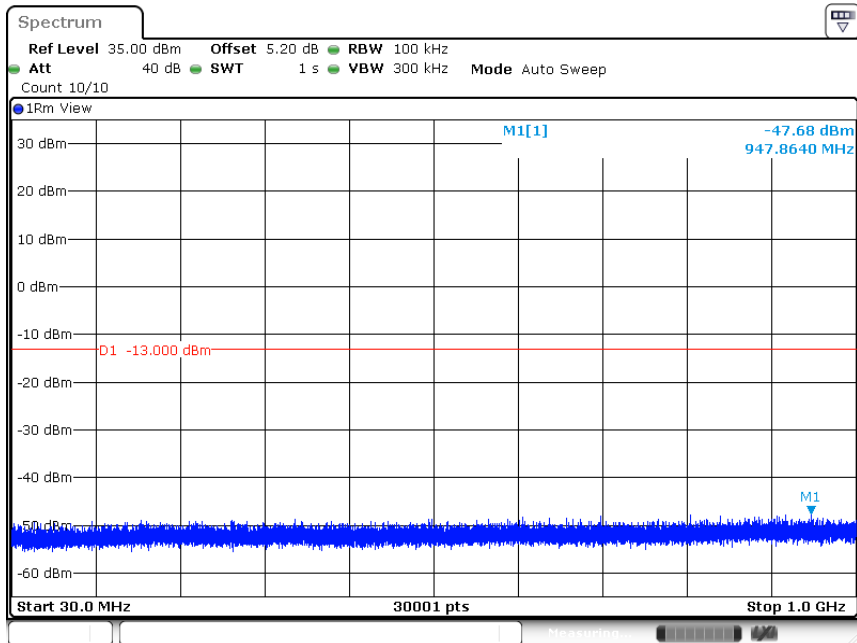
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**Band66-20MHz-QPSK-132572-1RB#0-Range2:1000~20000MHz**



Date: 17 NOV 2020 21:13:12

**Band66-20MHz-16QAM-132072-1RB#0-Range1:30~1000MHz**



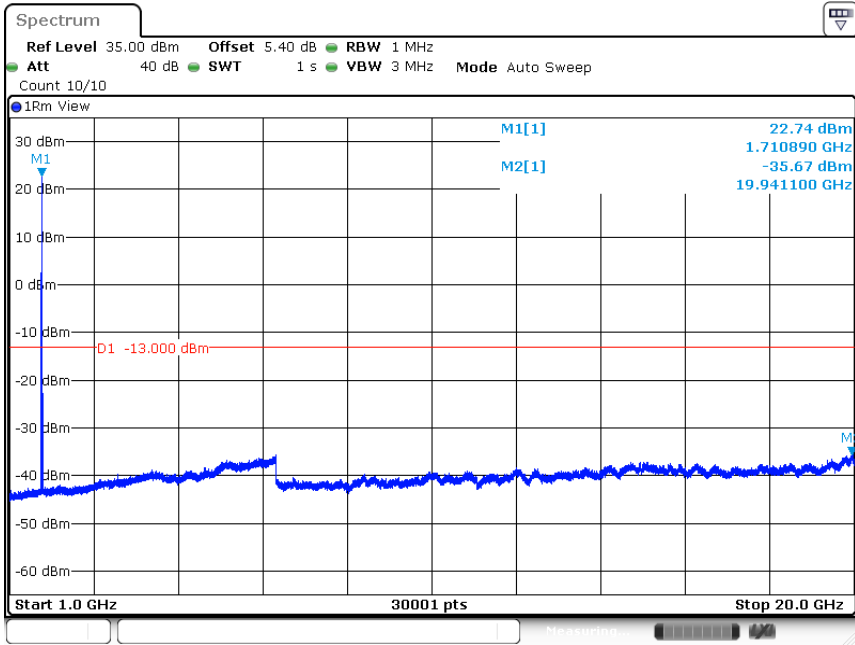
Date: 18 NOV 2020 12:27:41



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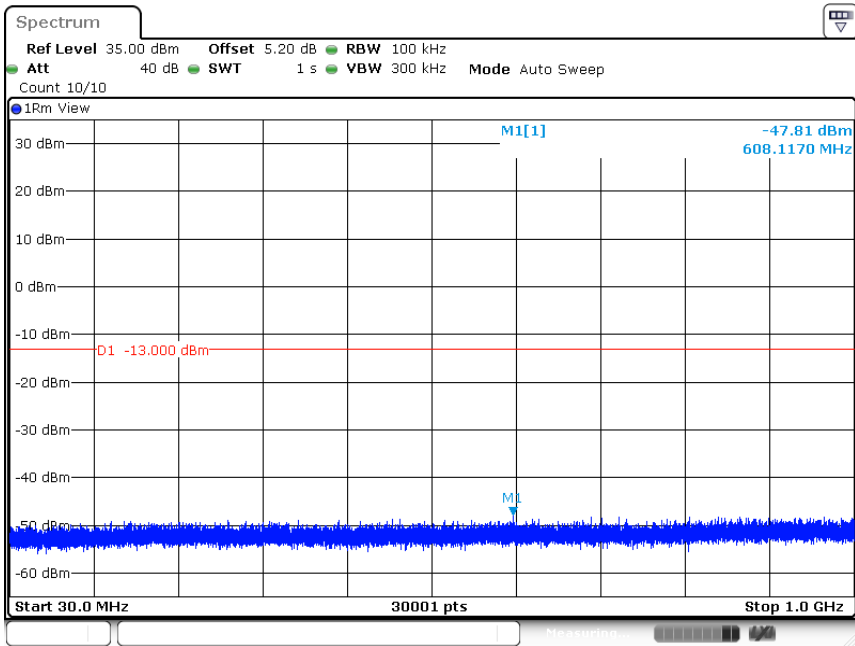


**Band66-20MHz-16QAM-132072-1RB#0-Range2:1000~20000MHz**



Date: 18 NOV. 2020 12:28:00

**Band66-20MHz-16QAM-132322-1RB#0-Range1:30~1000MHz**

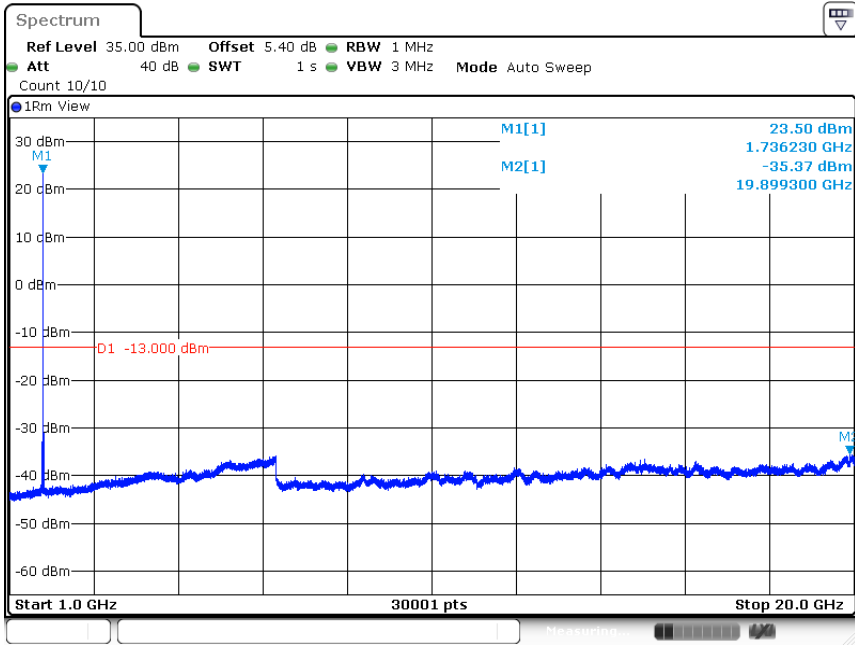


Date: 18 NOV. 2020 12:28:25



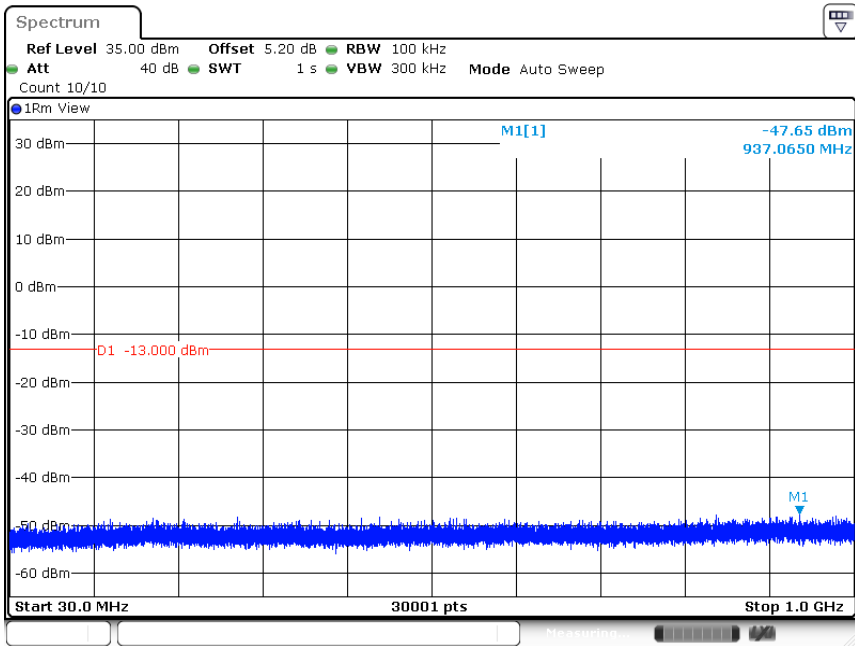
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**Band66-20MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz**



Date: 18 NOV. 2020 12:28:45

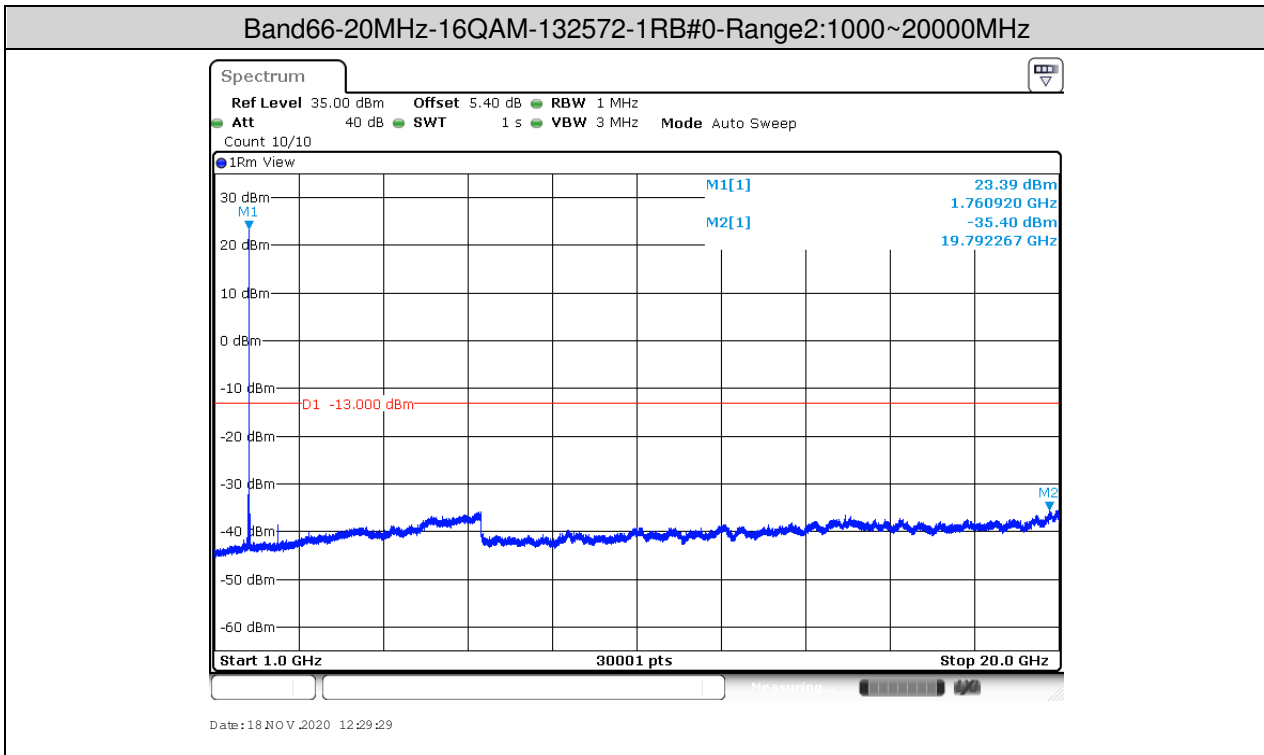
**Band66-20MHz-16QAM-132572-1RB#0-Range1:30~1000MHz**



Date: 18 NOV. 2020 12:29:09



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## 7 Field Strength of Spurious Radiation

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

#### 7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.2926	-57.89	-13.00	44.89	Vertical
118.7594	-61.26	-13.00	48.26	Vertical
527.2469	-66.04	-13.00	53.04	Vertical
3422.0141	-44.76	-13.00	31.76	Vertical
5133.5711	-55.90	-13.00	42.90	Vertical
17995.4999	-41.00	-13.00	28.00	Vertical
46.4908	-57.46	-13.00	44.46	Horizontal
119.2930	-67.59	-13.00	54.59	Horizontal
237.4449	-66.38	-13.00	53.38	Horizontal
3422.0141	-46.00	-13.00	33.00	Horizontal
7478.1493	-56.63	-13.00	43.63	Horizontal
16397.9466	-44.41	-13.00	31.41	Horizontal

#### 7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.7034	-57.79	-13.00	44.79	Vertical
117.4014	-60.75	-13.00	47.75	Vertical
677.3619	-62.25	-13.00	49.25	Vertical
3472.0157	-41.89	-13.00	28.89	Vertical
5208.0736	-52.27	-13.00	39.27	Vertical
17999.5000	-40.85	-13.00	27.85	Vertical
45.9573	-57.64	-13.00	44.64	Horizontal
120.9420	-66.18	-13.00	53.18	Horizontal
245.9813	-66.36	-13.00	53.36	Horizontal
3472.5158	-45.43	-13.00	32.43	Horizontal
5208.0736	-45.01	-13.00	32.01	Horizontal
16403.9468	-44.50	-13.00	31.50	Horizontal



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### 7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.5279	-57.83	-13.00	44.83	Vertical
116.1888	-60.53	-13.00	47.53	Vertical
2719.9440	-37.01	-13.00	24.01	Vertical
3502.0167	-41.95	-13.00	28.95	Vertical
5253.0751	-56.21	-13.00	43.21	Vertical
17997.4999	-40.97	-13.00	27.97	Vertical
47.1699	-57.88	-13.00	44.88	Horizontal
239.3365	-66.30	-13.00	53.30	Horizontal
2697.9396	-35.83	-13.00	22.83	Horizontal
3502.5168	-40.92	-13.00	27.92	Horizontal
5253.0751	-55.59	-13.00	42.59	Horizontal
16390.9464	-44.30	-13.00	31.30	Horizontal

**Remark:**

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



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## 8 Frequency Stability

### 8.1 Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	2.90	0.001686	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	-1.20	-0.000698	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	2.90	0.001686	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-5.90	-0.003381	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-8.90	-0.005100	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-1.20	-0.000688	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	3.60	0.002034	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	4.30	0.002429	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	0.10	0.000056	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	VL	NT	1.40	0.000814	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	VN	NT	2.60	0.001512	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	VH	NT	1.10	0.000640	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	VL	NT	-7.30	-0.004183	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	VN	NT	-0.20	-0.000115	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	VH	NT	-2.30	-0.001318	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	VL	NT	5.40	0.003051	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	VN	NT	-0.90	-0.000508	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	VH	NT	9.90	0.005593	±2.5	PASS

### 8.2 Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	-2.20	-0.001279	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	-1.30	-0.000756	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-10	2.70	0.001570	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	-1.00	-0.000581	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	3.40	0.001977	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	0.50	0.000291	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	30	7.50	0.004360	±2.5	PASS



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Band66	20MHz	QPSK	132072	100RB#0	NV	40	-2.30	-0.001337	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	50	2.70	0.001570	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.10	-0.000630	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-5.50	-0.003152	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-6.20	-0.003553	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-4.80	-0.002751	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-1.80	-0.001032	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-3.50	-0.002006	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-1.60	-0.000917	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-4.20	-0.002407	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-2.90	-0.001662	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	0.50	0.000282	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	5.90	0.003333	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-10	5.30	0.002994	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	3.30	0.001864	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	3.10	0.001751	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	6.70	0.003785	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	30	5.50	0.003107	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	40	1.00	0.000565	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	50	-1.90	-0.001073	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	-30	0.74	0.000430	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	-20	-2.50	-0.001453	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	-10	3.00	0.001744	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	0	-0.10	-0.000058	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	10	0.30	0.000174	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	20	-3.30	-0.001919	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	30	2.20	0.001279	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	40	5.30	0.003081	±2.5	PASS
Band66	20MHz	16QAM	132072	27RB#0	NV	50	0.10	0.000058	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	-30	-6.30	-0.003610	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	-20	-6.70	-0.003840	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	-10	-1.80	-0.001032	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	0	2.40	0.001375	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	10	-3.20	-0.001834	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	20	-3.40	-0.001948	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	30	-3.80	-0.002178	±2.5	PASS
Band66	20MHz	16QAM	132322	27RB#0	NV	40	-3.00	-0.001719	±2.5	PASS



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Band66	20MHz	16QAM	132322	27RB#0	NV	50	3.70	0.002120	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	-30	-1.00	-0.000565	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	-20	3.00	0.001695	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	-10	2.30	0.001299	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	0	11.10	0.006271	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	10	1.70	0.000960	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	20	3.70	0.002090	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	30	0.70	0.000395	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	40	2.40	0.001356	±2.5	PASS
Band66	20MHz	16QAM	132572	27RB#0	NV	50	1.10	0.000621	±2.5	PASS

The End



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