



# Appendix B

## E-UTRA Band 66





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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	23.13	24.53	33.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	23.40	24.8	33.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	23.29	24.69	33.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	23.54	24.94	33.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	23.68	25.08	33.00	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	23.51	24.91	33.00	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	22.40	23.8	33.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	23.24	24.64	33.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	23.25	24.65	33.00	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	23.17	24.57	33.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	23.22	24.62	33.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	23.42	24.82	33.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	23.37	24.77	33.00	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	22.22	23.62	33.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.97	24.37	33.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.86	24.26	33.00	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.97	24.37	33.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	23.26	24.66	33.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	23.30	24.7	33.00	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	23.30	24.7	33.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.15	23.55	33.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	22.01	23.41	33.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.15	23.55	33.00	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.87	23.27	33.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	22.70	24.1	33.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	22.55	23.95	33.00	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	22.52	23.92	33.00	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.39	22.79	33.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.88	23.28	33.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.06	23.46	33.00	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.85	23.25	33.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	22.39	23.79	33.00	PASS



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Band66	1.4MHz	16QAM	132322	3RB#1	22.45	23.85	33.00	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	22.37	23.77	33.00	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	21.17	22.57	33.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.45	22.85	33.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.06	23.46	33.00	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.86	23.26	33.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	22.28	23.68	33.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	22.26	23.66	33.00	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	22.13	23.53	33.00	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.04	22.44	33.00	PASS
Band66	3MHz	QPSK	131987	1RB#0	23.18	24.58	33.00	PASS
Band66	3MHz	QPSK	131987	1RB#8	23.14	24.54	33.00	PASS
Band66	3MHz	QPSK	131987	1RB#14	23.42	24.82	33.00	PASS
Band66	3MHz	QPSK	131987	8RB#0	22.25	23.65	33.00	PASS
Band66	3MHz	QPSK	131987	8RB#4	22.33	23.73	33.00	PASS
Band66	3MHz	QPSK	131987	8RB#7	22.26	23.66	33.00	PASS
Band66	3MHz	QPSK	131987	15RB#0	22.35	23.75	33.00	PASS
Band66	3MHz	QPSK	132322	1RB#0	23.22	24.62	33.00	PASS
Band66	3MHz	QPSK	132322	1RB#8	23.01	24.41	33.00	PASS
Band66	3MHz	QPSK	132322	1RB#14	23.08	24.48	33.00	PASS
Band66	3MHz	QPSK	132322	8RB#0	22.16	23.56	33.00	PASS
Band66	3MHz	QPSK	132322	8RB#4	22.24	23.64	33.00	PASS
Band66	3MHz	QPSK	132322	8RB#7	22.23	23.63	33.00	PASS
Band66	3MHz	QPSK	132322	15RB#0	22.22	23.62	33.00	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.99	24.39	33.00	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.70	24.1	33.00	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.13	24.53	33.00	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.98	23.38	33.00	PASS
Band66	3MHz	QPSK	132657	8RB#4	22.13	23.53	33.00	PASS
Band66	3MHz	QPSK	132657	8RB#7	22.08	23.48	33.00	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.04	23.44	33.00	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.92	23.32	33.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.87	23.27	33.00	PASS
Band66	3MHz	16QAM	131987	1RB#14	22.01	23.41	33.00	PASS
Band66	3MHz	16QAM	131987	8RB#0	21.18	22.58	33.00	PASS
Band66	3MHz	16QAM	131987	8RB#4	21.32	22.72	33.00	PASS
Band66	3MHz	16QAM	131987	8RB#7	21.35	22.75	33.00	PASS
Band66	3MHz	16QAM	131987	15RB#0	21.26	22.66	33.00	PASS



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Band66	3MHz	16QAM	132322	1RB#0	21.90	23.3	33.00	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.69	23.09	33.00	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.59	22.99	33.00	PASS
Band66	3MHz	16QAM	132322	8RB#0	21.11	22.51	33.00	PASS
Band66	3MHz	16QAM	132322	8RB#4	21.08	22.48	33.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	21.07	22.47	33.00	PASS
Band66	3MHz	16QAM	132322	15RB#0	21.42	22.82	33.00	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.62	23.02	33.00	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.61	23.01	33.00	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.65	23.05	33.00	PASS
Band66	3MHz	16QAM	132657	8RB#0	20.85	22.25	33.00	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.93	22.33	33.00	PASS
Band66	3MHz	16QAM	132657	8RB#7	21.01	22.41	33.00	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.25	22.65	33.00	PASS
Band66	5MHz	QPSK	131997	1RB#0	23.30	24.7	33.00	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.95	24.35	33.00	PASS
Band66	5MHz	QPSK	131997	1RB#24	23.32	24.72	33.00	PASS
Band66	5MHz	QPSK	131997	12RB#0	22.46	23.86	33.00	PASS
Band66	5MHz	QPSK	131997	12RB#6	22.21	23.61	33.00	PASS
Band66	5MHz	QPSK	131997	12RB#13	22.44	23.84	33.00	PASS
Band66	5MHz	QPSK	131997	25RB#0	22.51	23.91	33.00	PASS
Band66	5MHz	QPSK	132322	1RB#0	23.25	24.65	33.00	PASS
Band66	5MHz	QPSK	132322	1RB#12	23.10	24.5	33.00	PASS
Band66	5MHz	QPSK	132322	1RB#24	23.14	24.54	33.00	PASS
Band66	5MHz	QPSK	132322	12RB#0	22.25	23.65	33.00	PASS
Band66	5MHz	QPSK	132322	12RB#6	22.15	23.55	33.00	PASS
Band66	5MHz	QPSK	132322	12RB#13	22.12	23.52	33.00	PASS
Band66	5MHz	QPSK	132322	25RB#0	22.33	23.73	33.00	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.88	24.28	33.00	PASS
Band66	5MHz	QPSK	132647	1RB#12	23.03	24.43	33.00	PASS
Band66	5MHz	QPSK	132647	1RB#24	23.19	24.59	33.00	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.98	23.38	33.00	PASS
Band66	5MHz	QPSK	132647	12RB#6	22.20	23.6	33.00	PASS
Band66	5MHz	QPSK	132647	12RB#13	22.08	23.48	33.00	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.01	23.41	33.00	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.92	23.32	33.00	PASS
Band66	5MHz	16QAM	131997	1RB#12	22.33	23.73	33.00	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.71	23.11	33.00	PASS



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Band66	5MHz	16QAM	131997	12RB#0	21.29	22.69	33.00	PASS
Band66	5MHz	16QAM	131997	12RB#6	21.47	22.87	33.00	PASS
Band66	5MHz	16QAM	131997	12RB#13	21.43	22.83	33.00	PASS
Band66	5MHz	16QAM	131997	25RB#0	21.36	22.76	33.00	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.65	23.05	33.00	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.09	23.49	33.00	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.73	23.13	33.00	PASS
Band66	5MHz	16QAM	132322	12RB#0	21.05	22.45	33.00	PASS
Band66	5MHz	16QAM	132322	12RB#6	21.15	22.55	33.00	PASS
Band66	5MHz	16QAM	132322	12RB#13	21.16	22.56	33.00	PASS
Band66	5MHz	16QAM	132322	25RB#0	21.10	22.5	33.00	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.50	22.9	33.00	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.96	23.36	33.00	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.56	22.96	33.00	PASS
Band66	5MHz	16QAM	132647	12RB#0	20.83	22.23	33.00	PASS
Band66	5MHz	16QAM	132647	12RB#6	21.05	22.45	33.00	PASS
Band66	5MHz	16QAM	132647	12RB#13	21.00	22.4	33.00	PASS
Band66	5MHz	16QAM	132647	25RB#0	21.11	22.51	33.00	PASS
Band66	10MHz	QPSK	132022	1RB#0	23.21	24.61	33.00	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.98	24.38	33.00	PASS
Band66	10MHz	QPSK	132022	1RB#49	23.60	25	33.00	PASS
Band66	10MHz	QPSK	132022	25RB#0	22.37	23.77	33.00	PASS
Band66	10MHz	QPSK	132022	25RB#12	22.35	23.75	33.00	PASS
Band66	10MHz	QPSK	132022	25RB#25	22.54	23.94	33.00	PASS
Band66	10MHz	QPSK	132022	50RB#0	22.44	23.84	33.00	PASS
Band66	10MHz	QPSK	132322	1RB#0	23.20	24.6	33.00	PASS
Band66	10MHz	QPSK	132322	1RB#24	23.33	24.73	33.00	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.90	24.3	33.00	PASS
Band66	10MHz	QPSK	132322	25RB#0	22.50	23.9	33.00	PASS
Band66	10MHz	QPSK	132322	25RB#12	22.40	23.8	33.00	PASS
Band66	10MHz	QPSK	132322	25RB#25	22.23	23.63	33.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.26	23.66	33.00	PASS
Band66	10MHz	QPSK	132622	1RB#0	22.98	24.38	33.00	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.48	24.88	33.00	PASS
Band66	10MHz	QPSK	132622	1RB#49	23.27	24.67	33.00	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.13	23.53	33.00	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.25	23.65	33.00	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.26	23.66	33.00	PASS



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Band66	10MHz	QPSK	132622	50RB#0	21.93	23.33	33.00	PASS
Band66	10MHz	16QAM	132022	1RB#0	22.04	23.44	33.00	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.10	23.5	33.00	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.69	23.09	33.00	PASS
Band66	10MHz	16QAM	132022	25RB#0	21.42	22.82	33.00	PASS
Band66	10MHz	16QAM	132022	25RB#12	21.58	22.98	33.00	PASS
Band66	10MHz	16QAM	132022	25RB#25	21.53	22.93	33.00	PASS
Band66	10MHz	16QAM	132022	50RB#0	21.37	22.77	33.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.95	23.35	33.00	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.94	23.34	33.00	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.82	23.22	33.00	PASS
Band66	10MHz	16QAM	132322	25RB#0	21.61	23.01	33.00	PASS
Band66	10MHz	16QAM	132322	25RB#12	21.33	22.73	33.00	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.34	22.74	33.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	21.27	22.67	33.00	PASS
Band66	10MHz	16QAM	132622	1RB#0	21.75	23.15	33.00	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.81	23.21	33.00	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.71	23.11	33.00	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.26	22.66	33.00	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.19	22.59	33.00	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.06	22.46	33.00	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.17	22.57	33.00	PASS
Band66	15MHz	QPSK	132047	1RB#0	23.33	24.73	33.00	PASS
Band66	15MHz	QPSK	132047	1RB#38	23.26	24.66	33.00	PASS
Band66	15MHz	QPSK	132047	1RB#74	23.33	24.73	33.00	PASS
Band66	15MHz	QPSK	132047	36RB#0	22.51	23.91	33.00	PASS
Band66	15MHz	QPSK	132047	36RB#18	22.47	23.87	33.00	PASS
Band66	15MHz	QPSK	132047	36RB#39	22.58	23.98	33.00	PASS
Band66	15MHz	QPSK	132047	75RB#0	22.38	23.78	33.00	PASS
Band66	15MHz	QPSK	132322	1RB#0	23.36	24.76	33.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	23.19	24.59	33.00	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.84	24.24	33.00	PASS
Band66	15MHz	QPSK	132322	36RB#0	22.49	23.89	33.00	PASS
Band66	15MHz	QPSK	132322	36RB#18	22.26	23.66	33.00	PASS
Band66	15MHz	QPSK	132322	36RB#39	22.04	23.44	33.00	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.29	23.69	33.00	PASS
Band66	15MHz	QPSK	132597	1RB#0	23.05	24.45	33.00	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.38	24.78	33.00	PASS



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Band66	15MHz	QPSK	132597	1RB#74	23.17	24.57	33.00	PASS
Band66	15MHz	QPSK	132597	36RB#0	22.09	23.49	33.00	PASS
Band66	15MHz	QPSK	132597	36RB#18	22.43	23.83	33.00	PASS
Band66	15MHz	QPSK	132597	36RB#39	22.37	23.77	33.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.14	23.54	33.00	PASS
Band66	15MHz	16QAM	132047	1RB#0	22.10	23.5	33.00	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.95	23.35	33.00	PASS
Band66	15MHz	16QAM	132047	1RB#74	22.11	23.51	33.00	PASS
Band66	15MHz	16QAM	132047	36RB#0	21.51	22.91	33.00	PASS
Band66	15MHz	16QAM	132047	36RB#18	21.50	22.9	33.00	PASS
Band66	15MHz	16QAM	132047	36RB#39	21.43	22.83	33.00	PASS
Band66	15MHz	16QAM	132047	75RB#0	21.49	22.89	33.00	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.05	23.45	33.00	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.80	23.2	33.00	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.95	23.35	33.00	PASS
Band66	15MHz	16QAM	132322	36RB#0	21.51	22.91	33.00	PASS
Band66	15MHz	16QAM	132322	36RB#18	21.38	22.78	33.00	PASS
Band66	15MHz	16QAM	132322	36RB#39	21.16	22.56	33.00	PASS
Band66	15MHz	16QAM	132322	75RB#0	21.29	22.69	33.00	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.89	23.29	33.00	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.78	23.18	33.00	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.79	23.19	33.00	PASS
Band66	15MHz	16QAM	132597	36RB#0	21.26	22.66	33.00	PASS
Band66	15MHz	16QAM	132597	36RB#18	21.29	22.69	33.00	PASS
Band66	15MHz	16QAM	132597	36RB#39	21.20	22.6	33.00	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.24	22.64	33.00	PASS
Band66	20MHz	QPSK	132072	1RB#0	23.49	24.89	33.00	PASS
Band66	20MHz	QPSK	132072	1RB#49	23.48	24.88	33.00	PASS
Band66	20MHz	QPSK	132072	1RB#99	23.15	24.55	33.00	PASS
Band66	20MHz	QPSK	132072	50RB#0	22.53	23.93	33.00	PASS
Band66	20MHz	QPSK	132072	50RB#25	22.54	23.94	33.00	PASS
Band66	20MHz	QPSK	132072	50RB#50	22.45	23.85	33.00	PASS
Band66	20MHz	QPSK	132072	100RB#0	22.43	23.83	33.00	PASS
Band66	20MHz	QPSK	132322	1RB#0	23.49	24.89	33.00	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.30	24.7	33.00	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.71	24.11	33.00	PASS
Band66	20MHz	QPSK	132322	50RB#0	22.62	24.02	33.00	PASS
Band66	20MHz	QPSK	132322	50RB#25	22.34	23.74	33.00	PASS



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Band66	20MHz	QPSK	132322	50RB#50	22.10	23.5	33.00	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.34	23.74	33.00	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.07	24.47	33.00	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.55	24.95	33.00	PASS
Band66	20MHz	QPSK	132572	1RB#99	23.44	24.84	33.00	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.00	23.4	33.00	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.43	23.83	33.00	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.40	23.8	33.00	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.11	23.51	33.00	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.99	23.39	33.00	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.86	23.26	33.00	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.93	23.33	33.00	PASS
Band66	20MHz	16QAM	132072	50RB#0	21.54	22.94	33.00	PASS
Band66	20MHz	16QAM	132072	50RB#25	21.58	22.98	33.00	PASS
Band66	20MHz	16QAM	132072	50RB#50	21.48	22.88	33.00	PASS
Band66	20MHz	16QAM	132072	100RB#0	21.46	22.86	33.00	PASS
Band66	20MHz	16QAM	132322	1RB#0	22.08	23.48	33.00	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.95	23.35	33.00	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.79	23.19	33.00	PASS
Band66	20MHz	16QAM	132322	50RB#0	21.35	22.75	33.00	PASS
Band66	20MHz	16QAM	132322	50RB#25	21.47	22.87	33.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	21.33	22.73	33.00	PASS
Band66	20MHz	16QAM	132322	100RB#0	21.24	22.64	33.00	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.88	23.28	33.00	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.95	23.35	33.00	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.78	23.18	33.00	PASS
Band66	20MHz	16QAM	132572	50RB#0	21.28	22.68	33.00	PASS
Band66	20MHz	16QAM	132572	50RB#25	21.28	22.68	33.00	PASS
Band66	20MHz	16QAM	132572	50RB#50	21.20	22.6	33.00	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.36	22.76	33.00	PASS

Remark:

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

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

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



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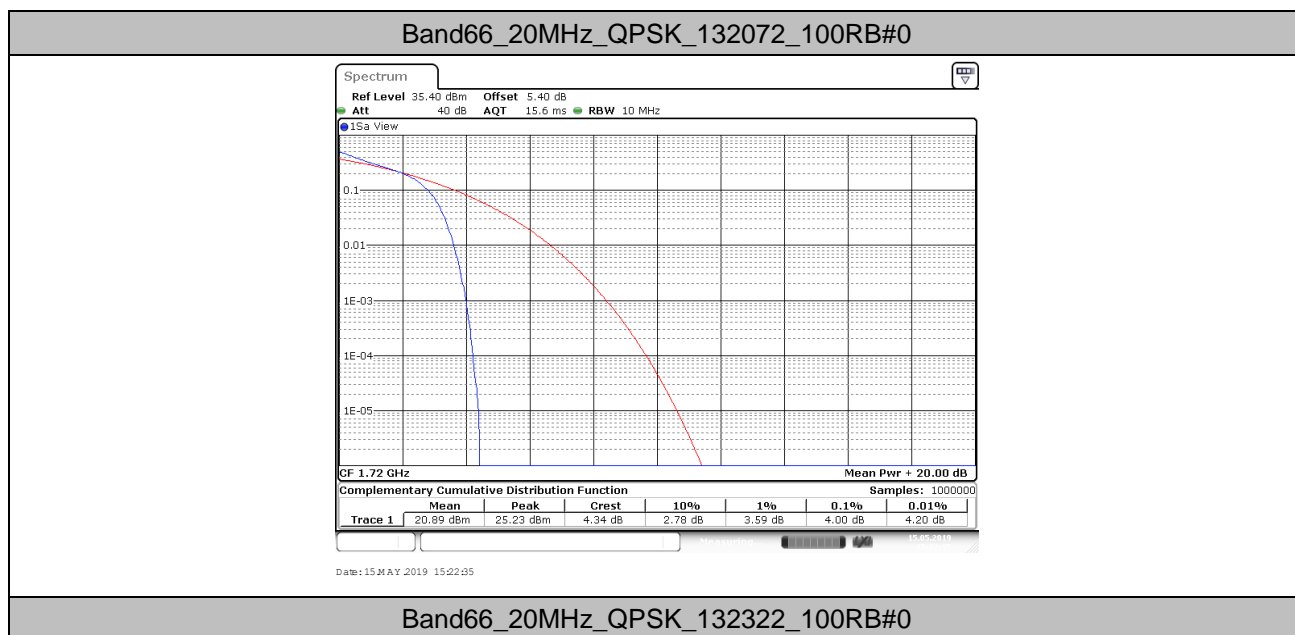
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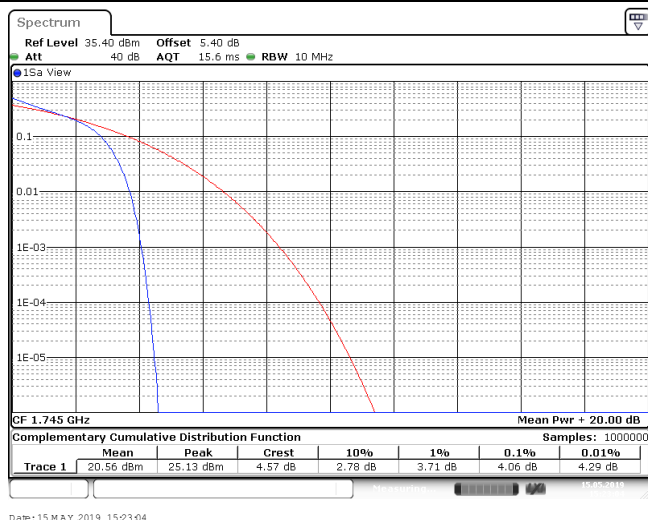
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

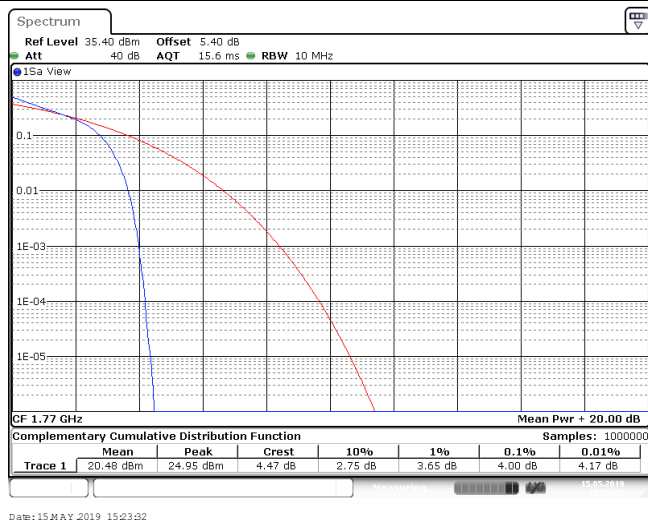
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	4.00	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	4.06	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	4.00	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.83	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.88	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.83	13	PASS

### 2.2. Test Plots





Band66\_20MHz\_QPSK\_132572\_100RB#0

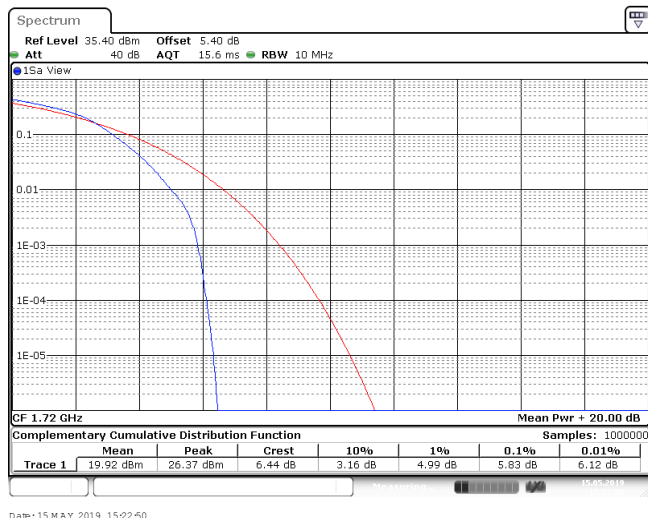


Band66\_20MHz\_16QAM\_132072\_100RB#0

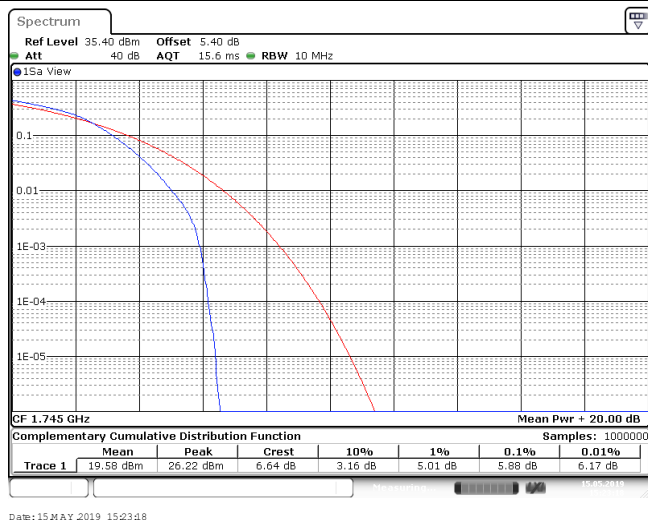


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**Band66\_20MHz\_16QAM\_132322\_100RB#0**



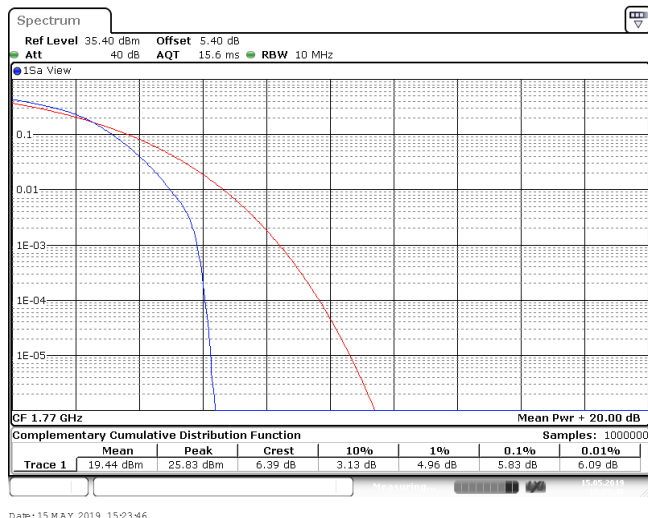
**Band66\_20MHz\_16QAM\_132572\_100RB#0**



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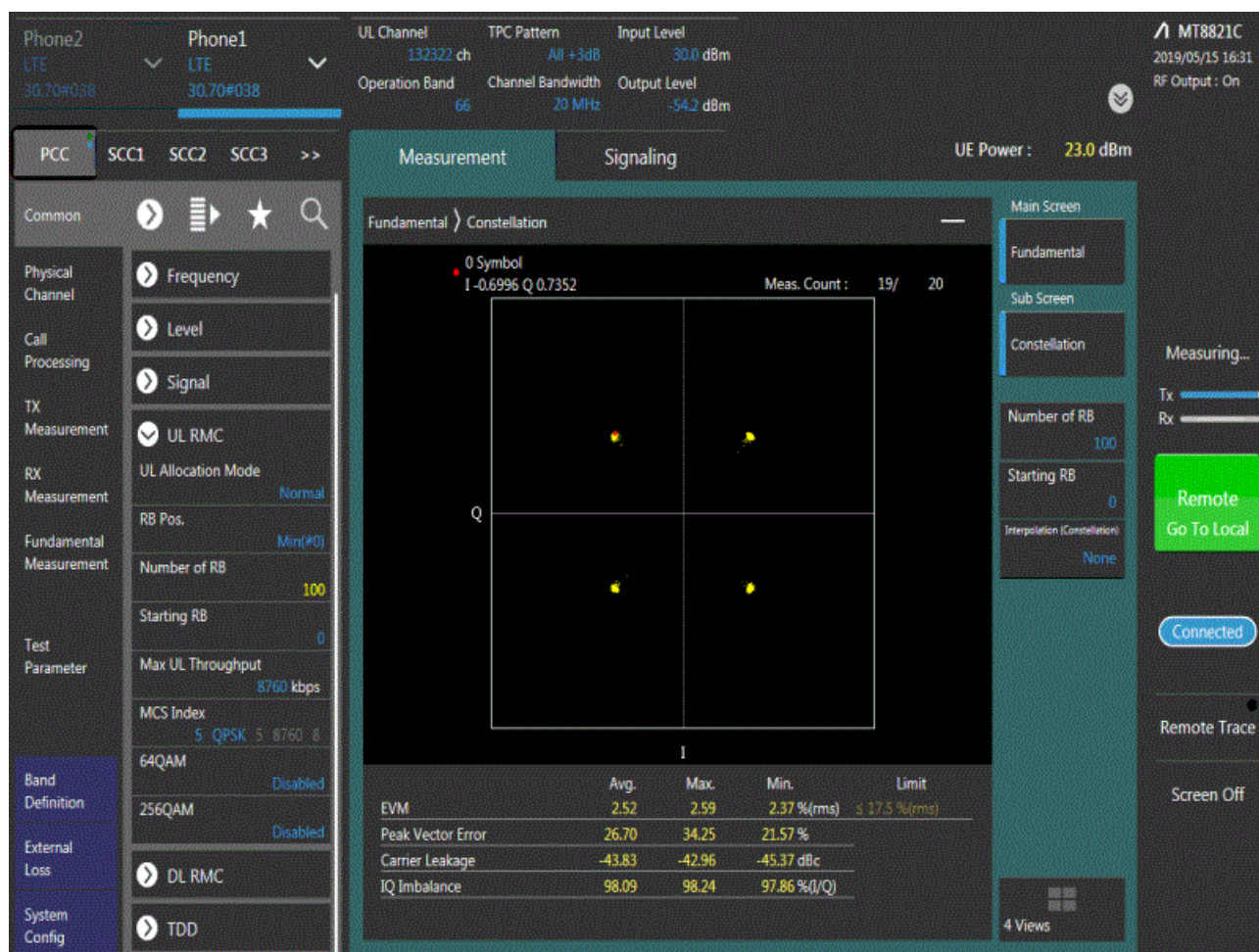
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### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE Band 66

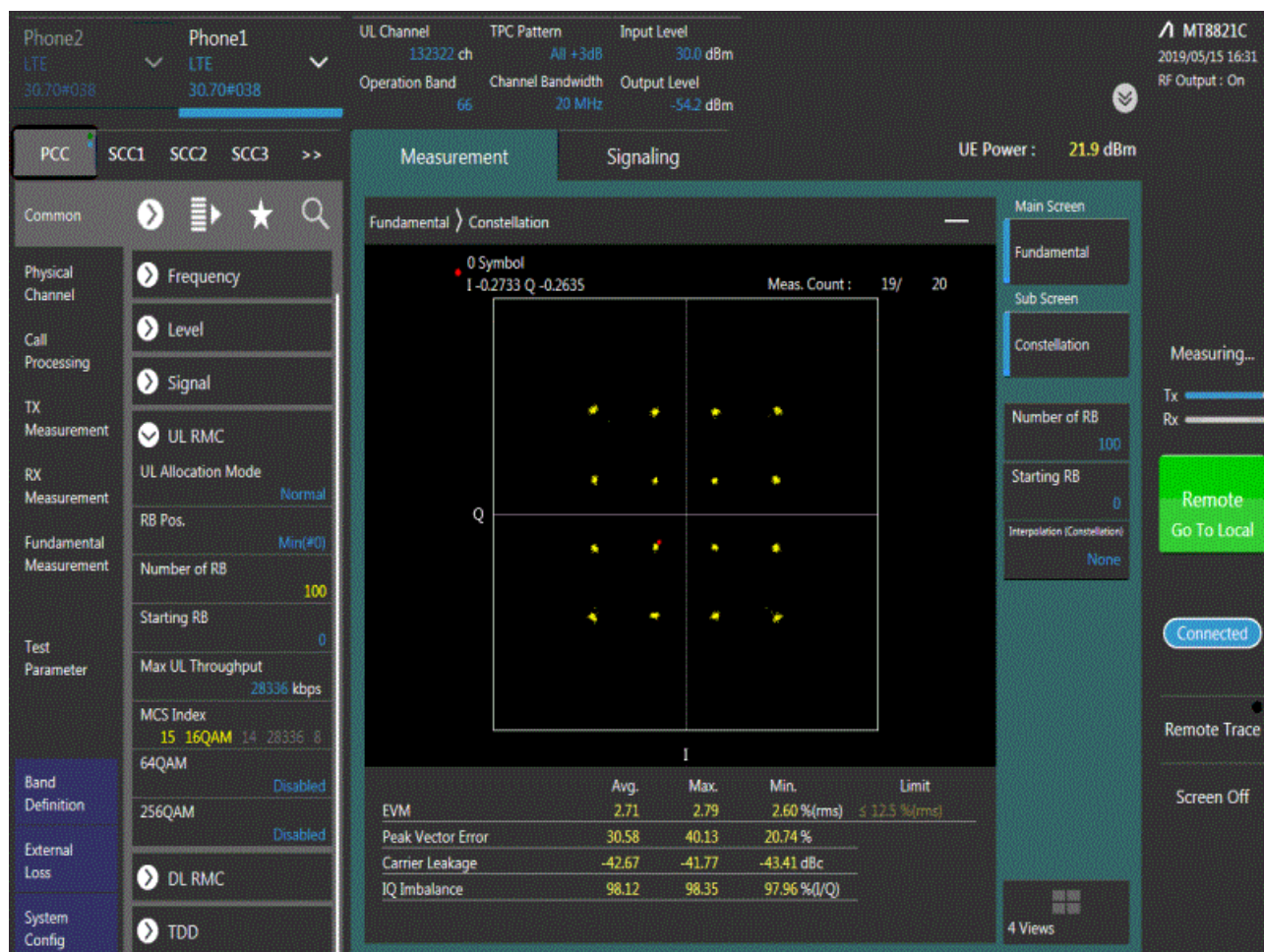
#### 3.2. Test Mode = LTE /TM1 20MHz

##### 3.2.1. Test Channel = MCH



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

#### 3.3.1. Test Channel = MCH







## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.091	1.299	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.094	1.287	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.094	1.287	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.088	1.296	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.091	1.290	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.091	1.281	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.697	2.988	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.697	3.000	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.697	2.994	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.685	2.982	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.970	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.685	2.970	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.476	4.920	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.466	4.940	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.930	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.486	4.950	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.486	4.960	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.486	4.950	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.931	9.740	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.911	9.700	PASS
Band66	10MHz	QPSK	132622	50RB#0	8.931	9.680	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.931	9.740	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.931	9.720	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.931	9.780	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.397	14.730	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.397	14.700	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.427	14.760	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.457	14.730	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.457	14.640	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.427	14.760	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.862	19.320	PASS



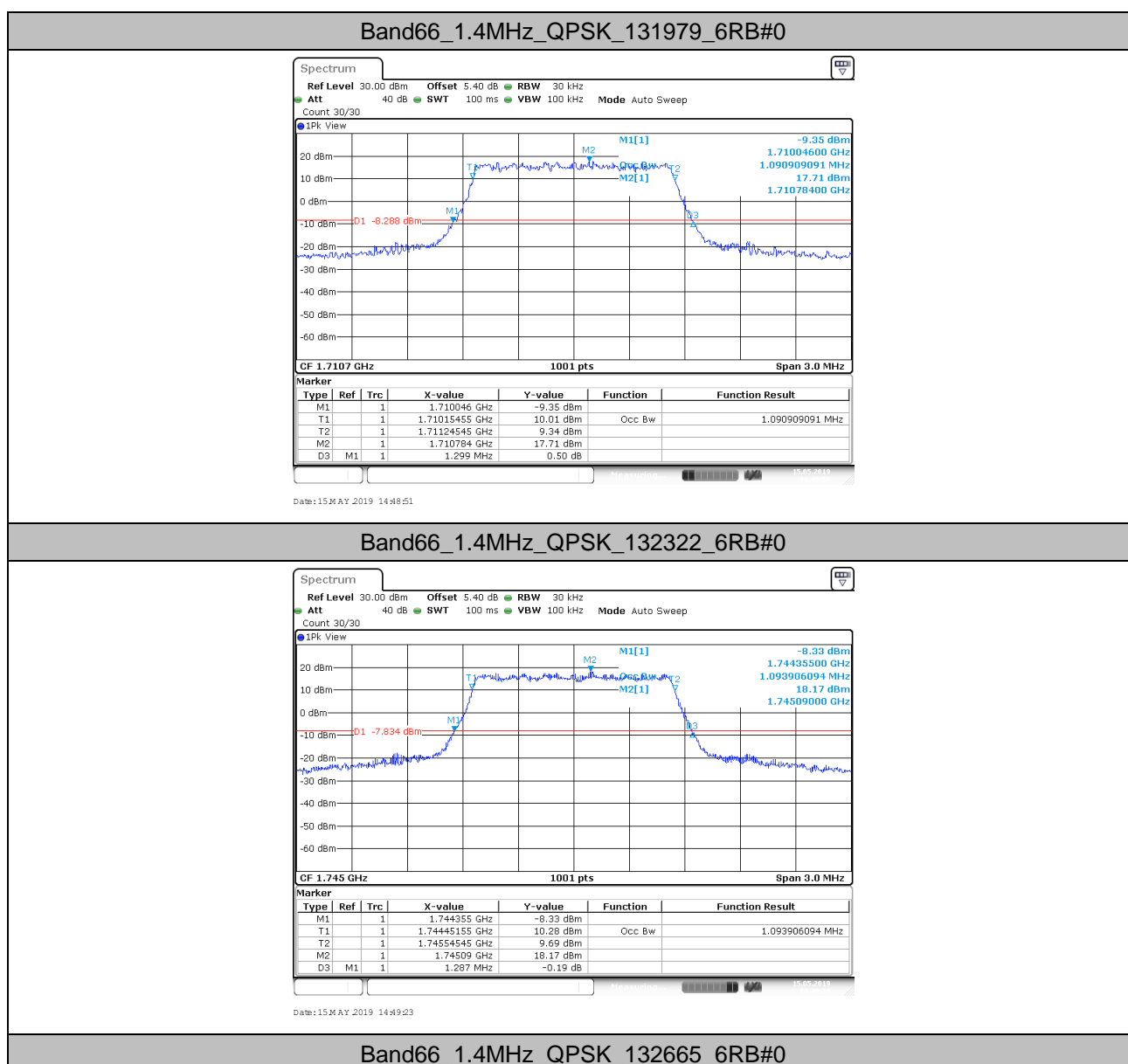
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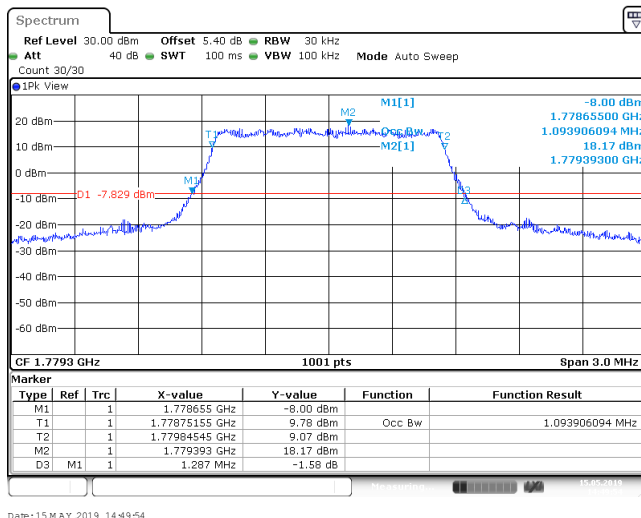
Band66	20MHz	QPSK	132322	100RB#0	17.862	19.400	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.862	19.400	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.822	19.400	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.822	19.400	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.862	19.440	PASS

## 4.2. Test Plots

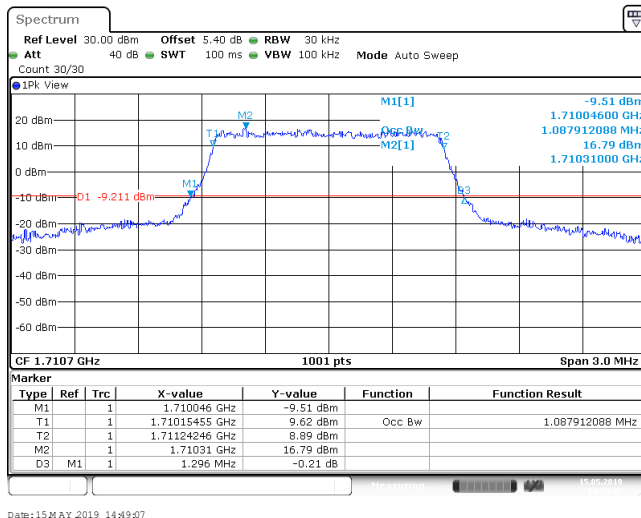


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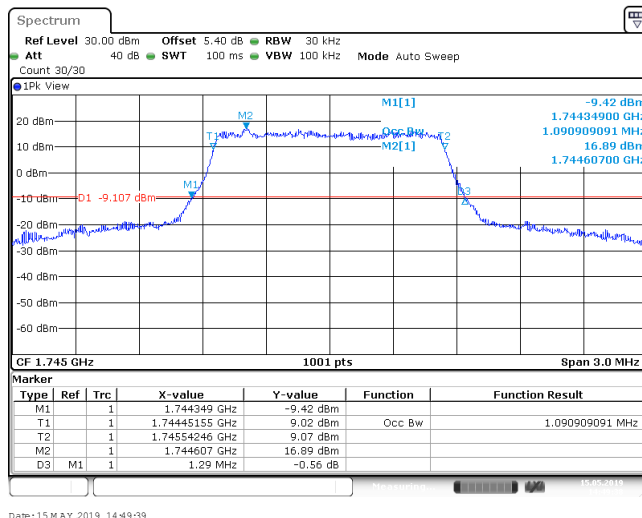


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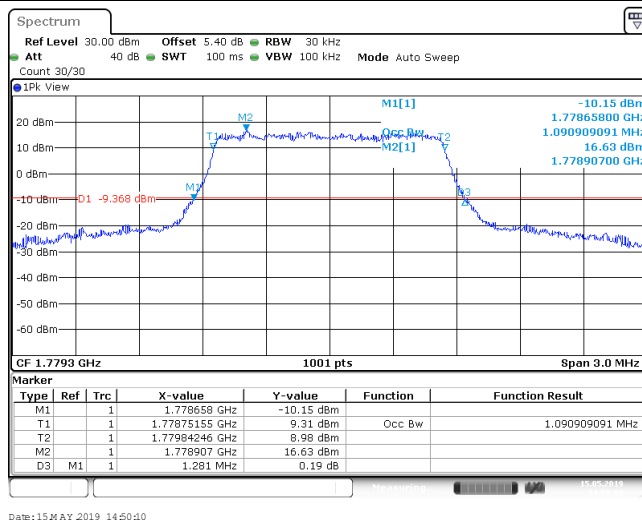


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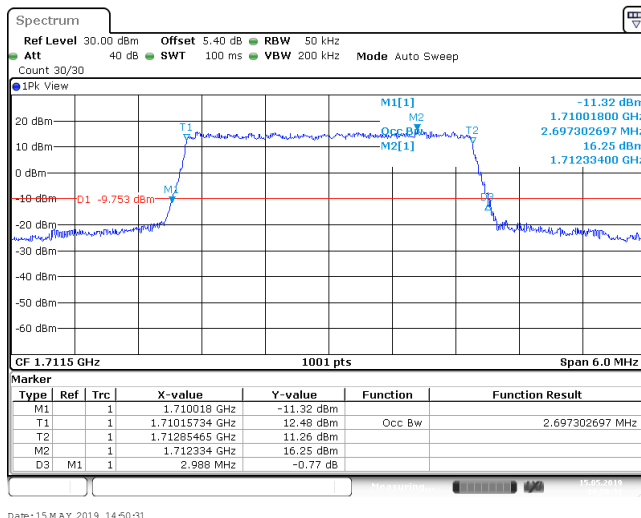


Band66\_1.4MHz\_16QAM\_132665\_6RB#0

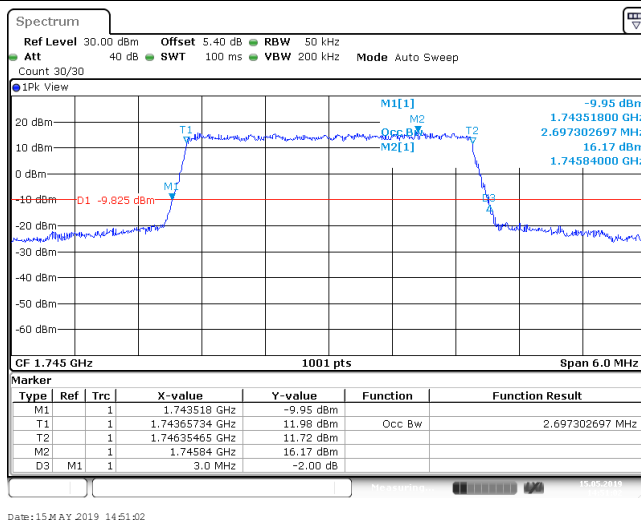


Band66\_3MHz\_QPSK\_131987\_15RB#0





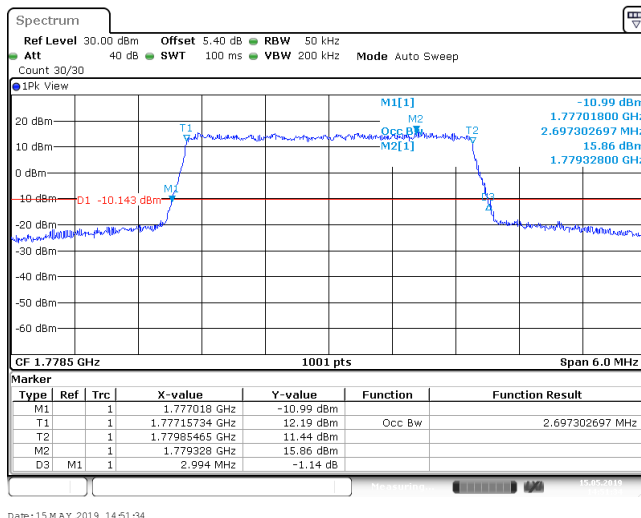
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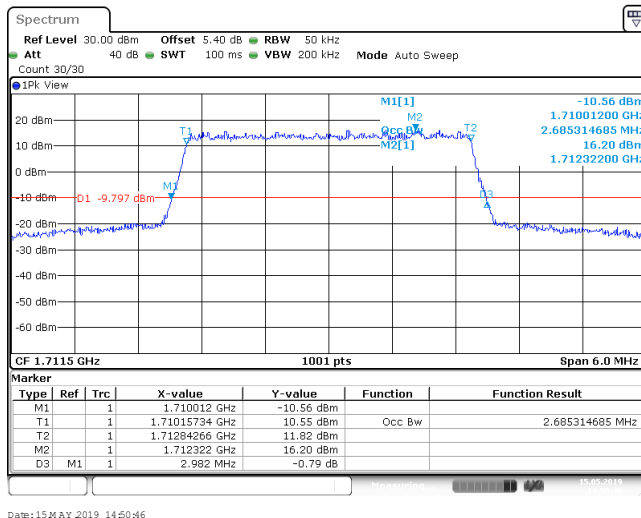
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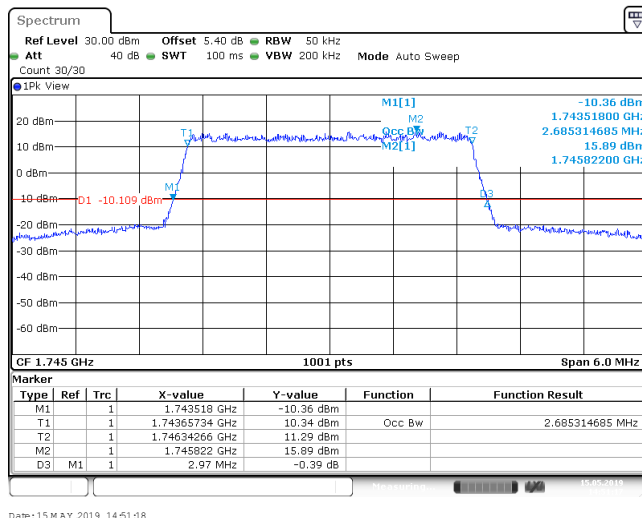


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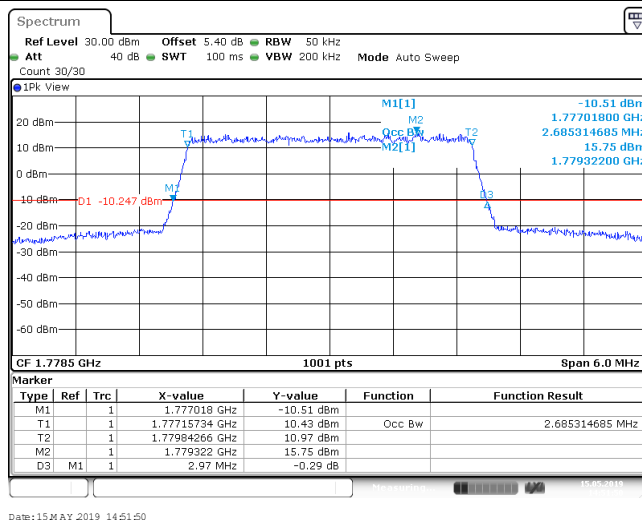
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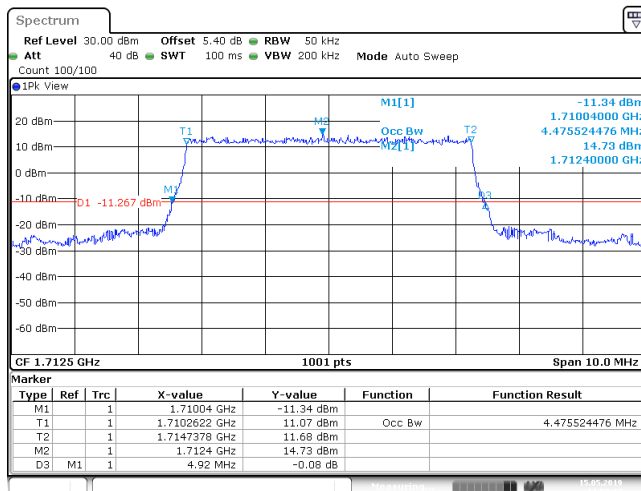
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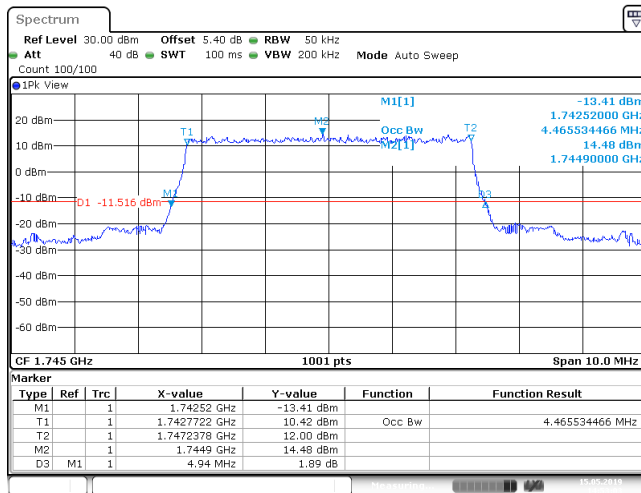
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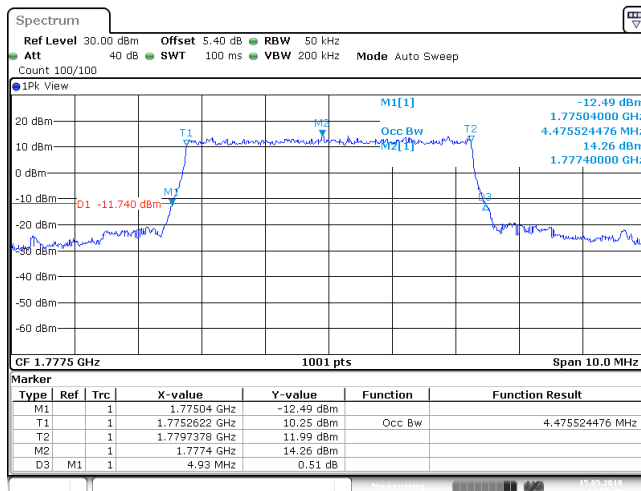
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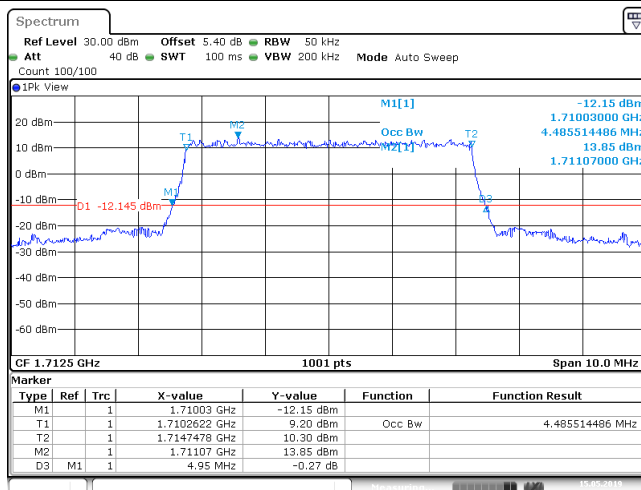
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Date: 15 MAY 2019 14:53:49

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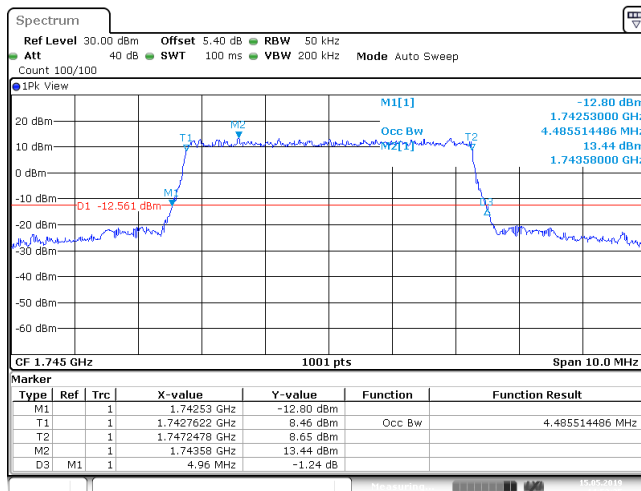


Date: 15 MAY 2019 14:52:40

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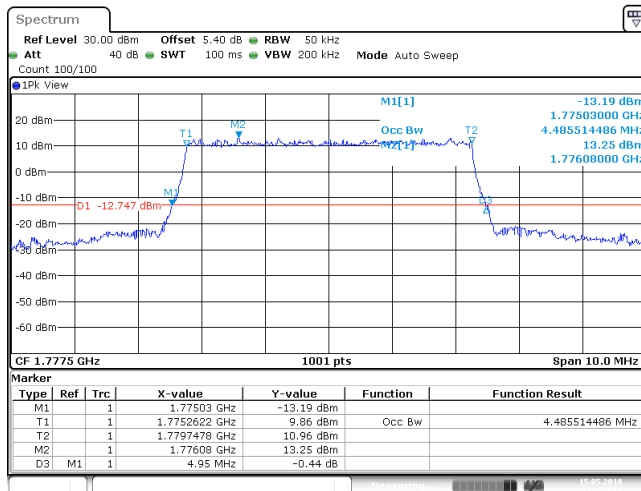






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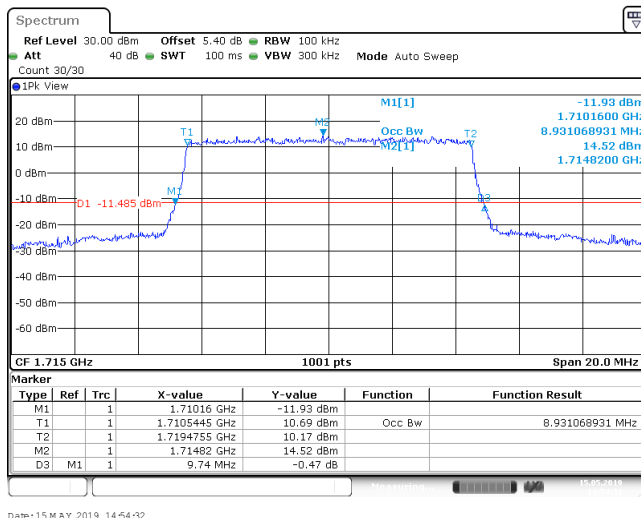
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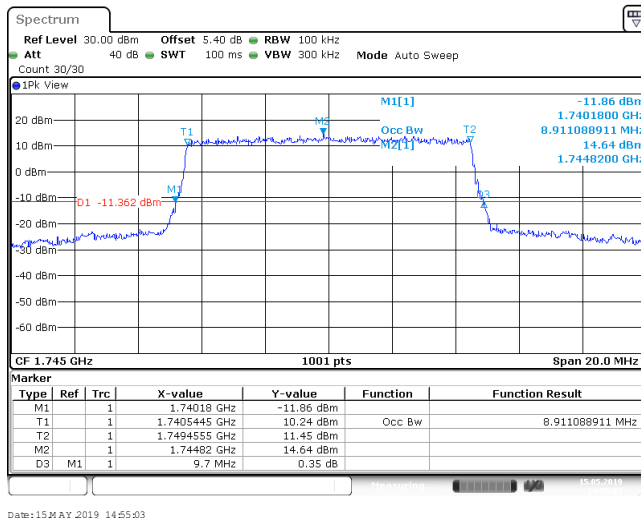
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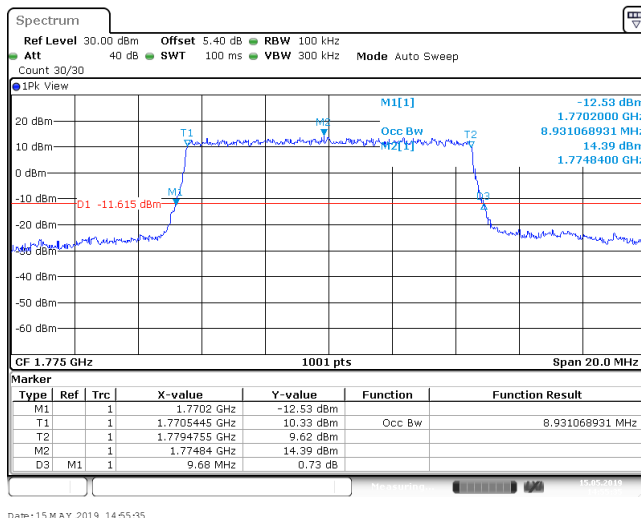


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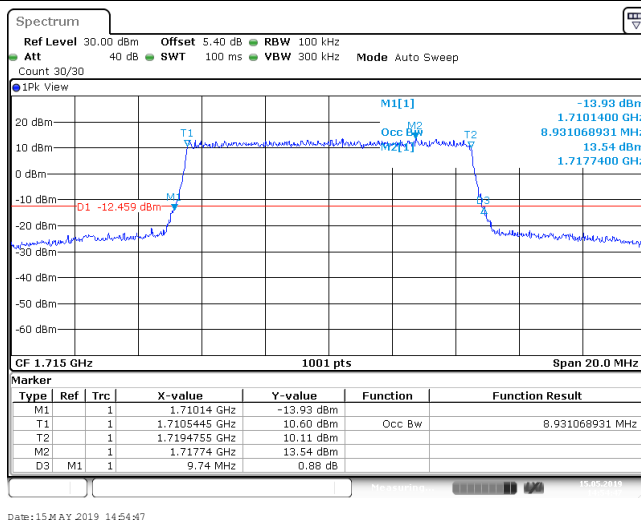


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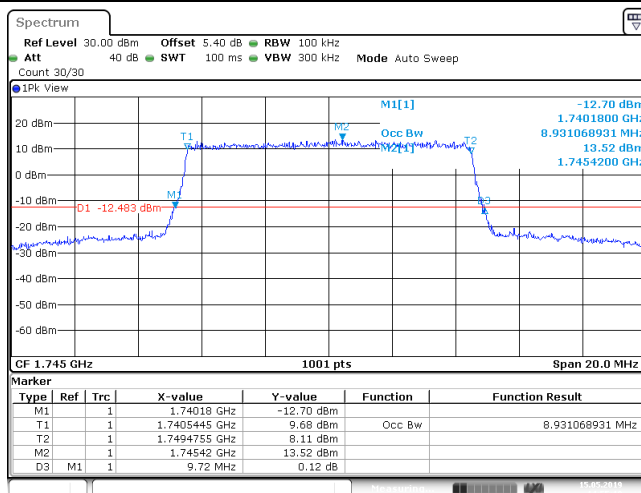


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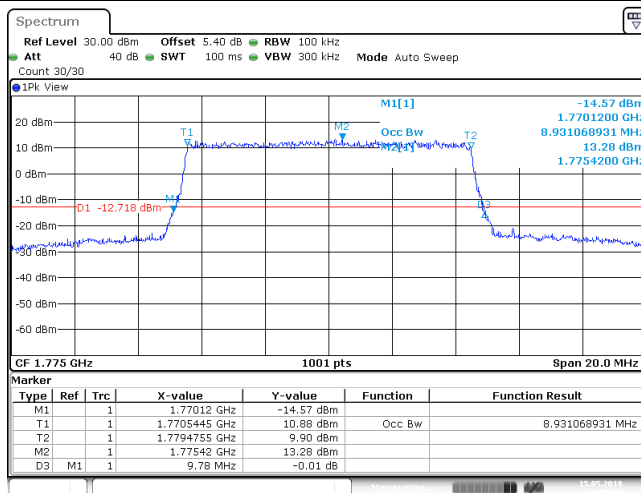
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Date: 15 MAY 2019 14:55:19

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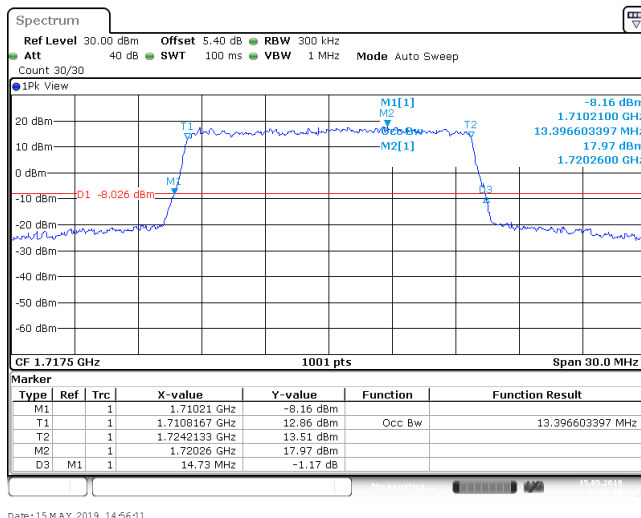


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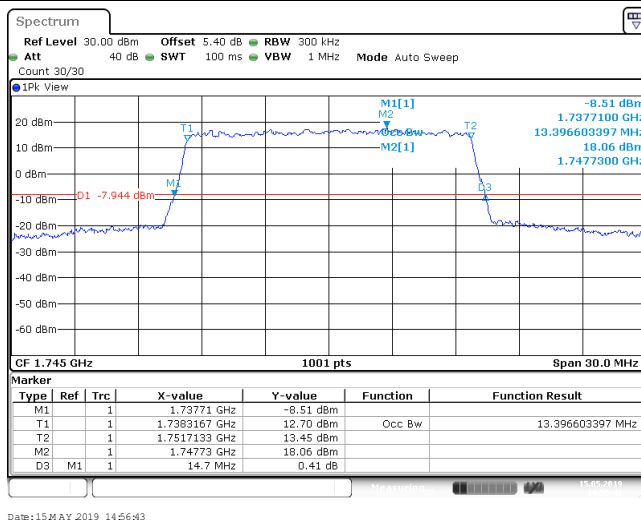
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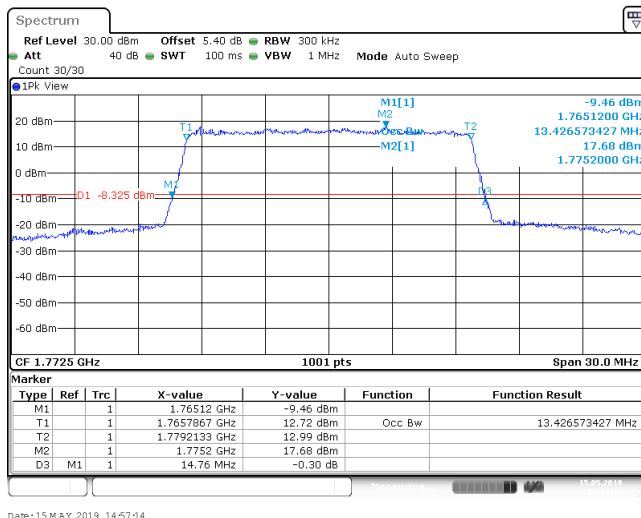


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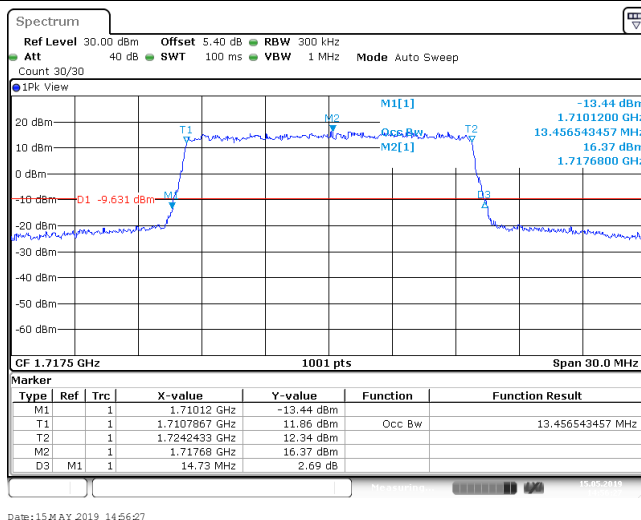


## Band66\_15MHz\_QPSK\_132597\_75RB#0



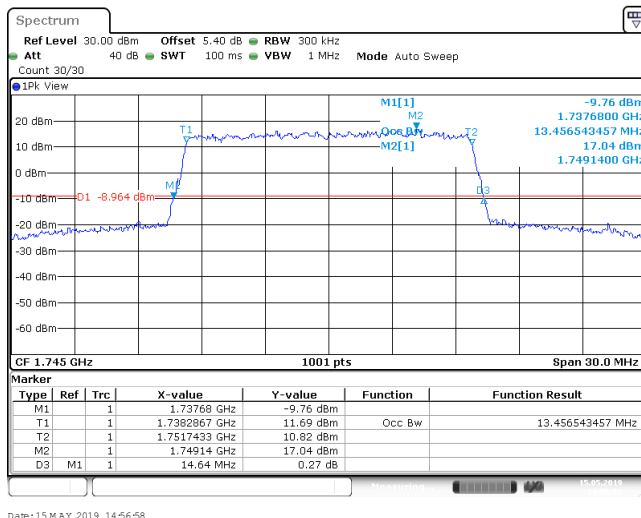


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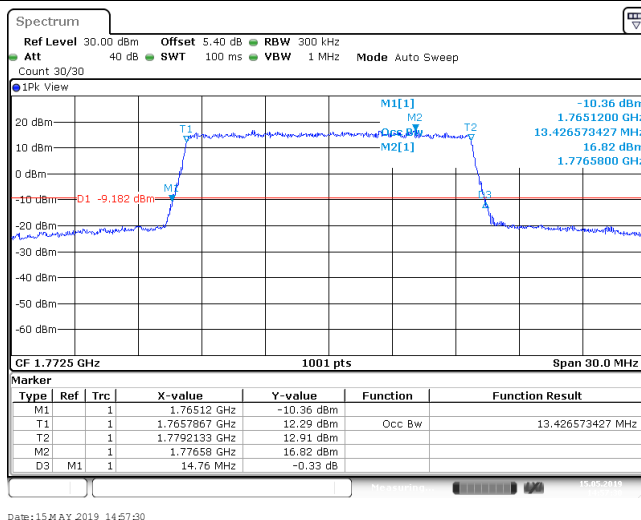


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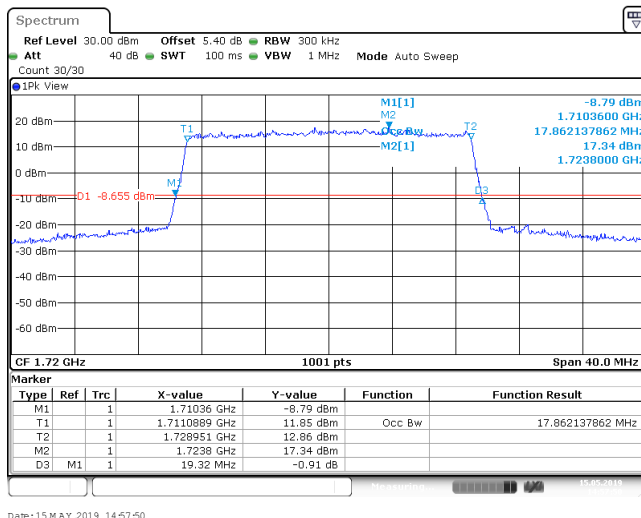


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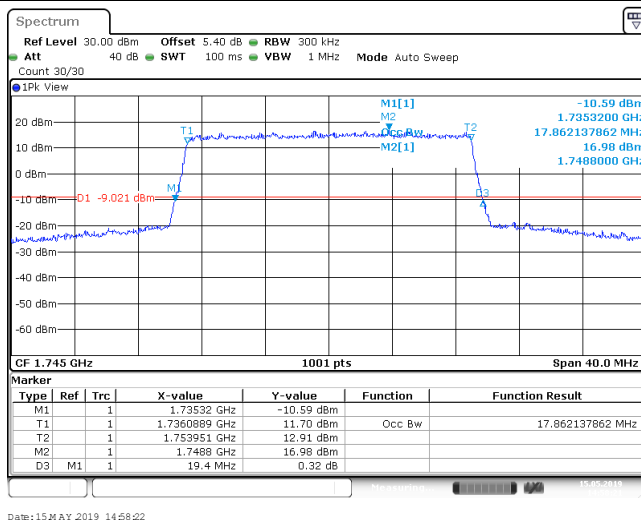


## Band66\_20MHz\_QPSK\_132072\_100RB#0





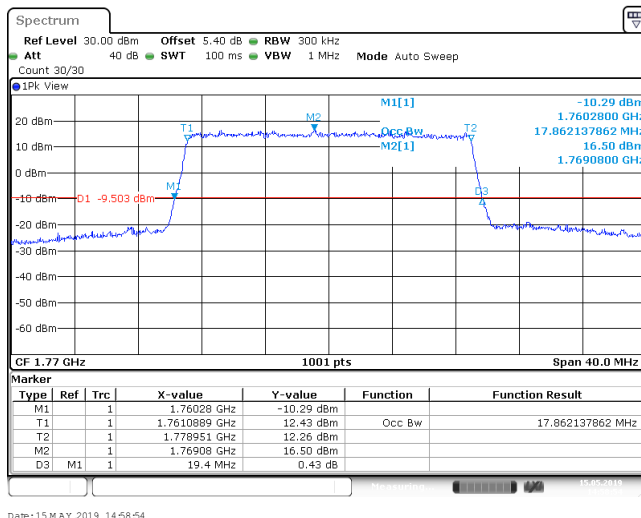
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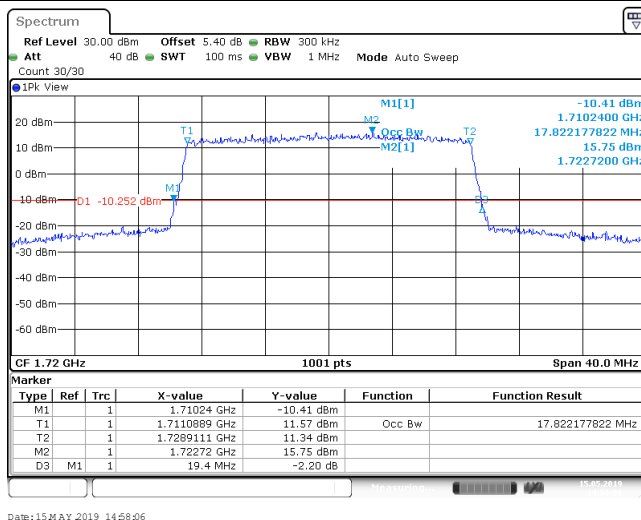
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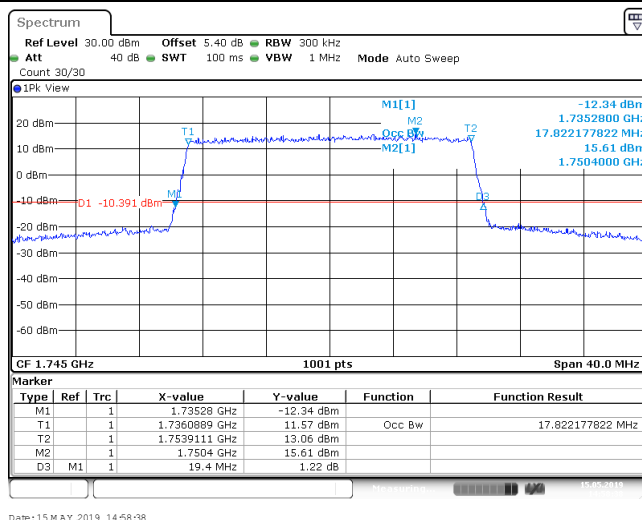


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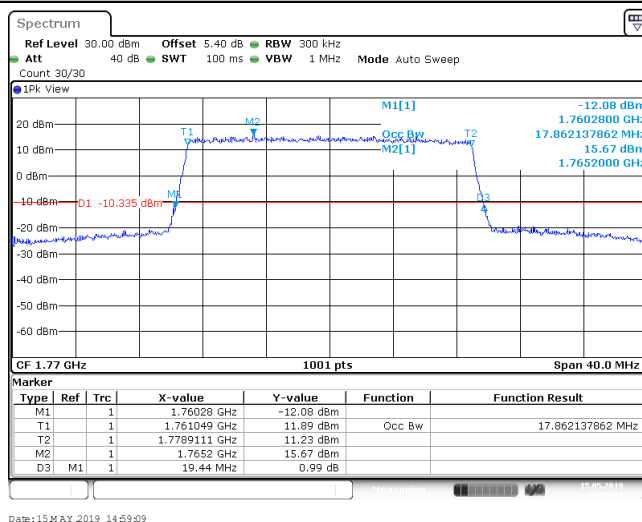
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Date: 15 MAY 2019 14:58:38

Band66	20MHz	16QAM	132572	100RB#0
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Date: 15 MAY 2019 14:59:00



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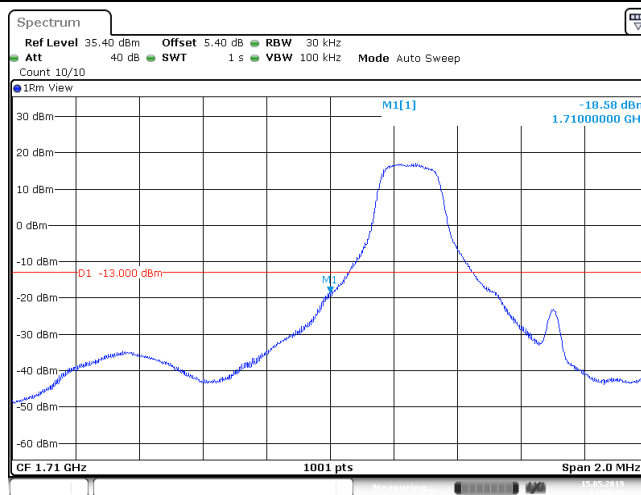
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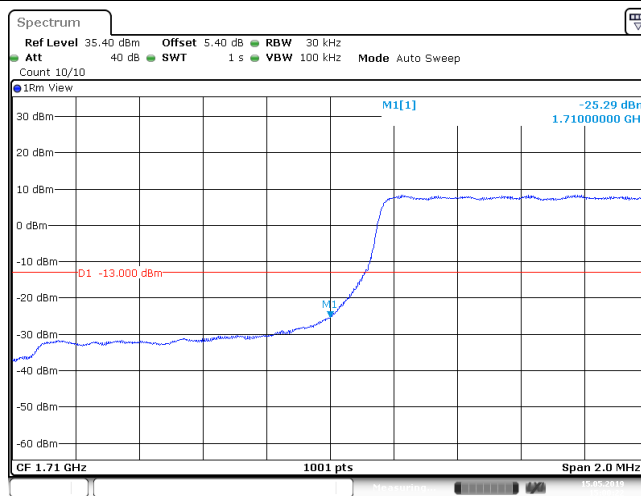
## 5. Band Edge Compliance

### 5.1. Test Plots

Band66\_1.4MHz\_QPSK\_131979\_1RB#0

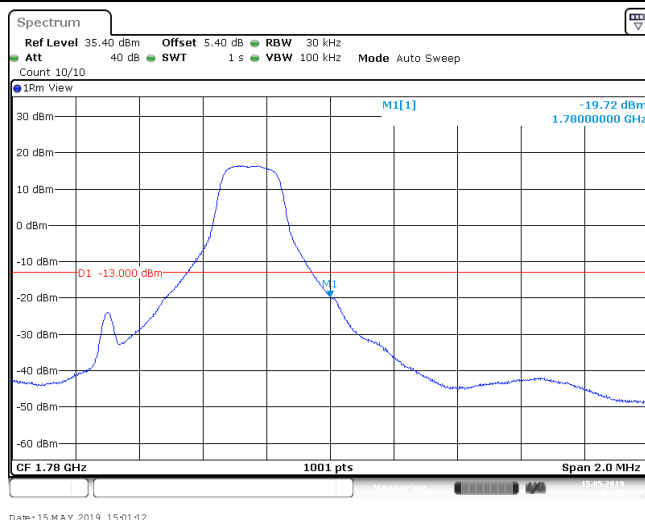


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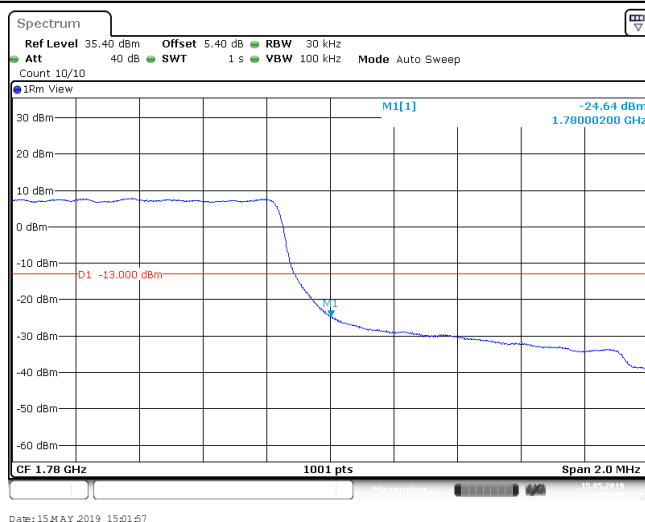


Band66\_1.4MHz\_QPSK\_132665\_1RB#5





Band66 1.4MHz QPSK 132665 6RB#0



Band66\_1.4MHz\_16QAM\_131979\_1RB#0

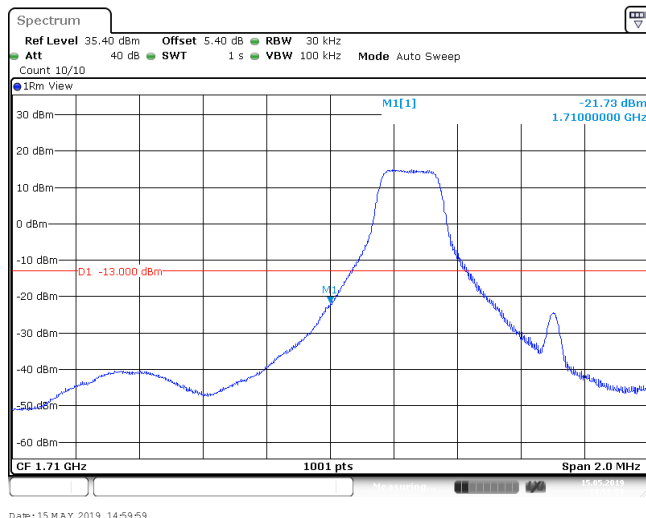


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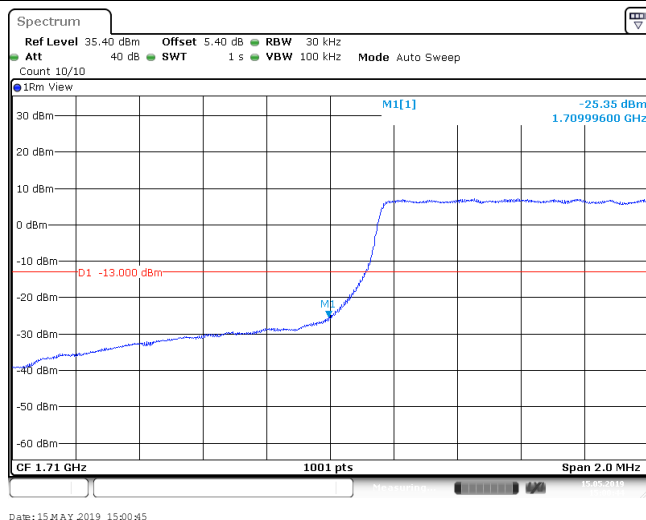
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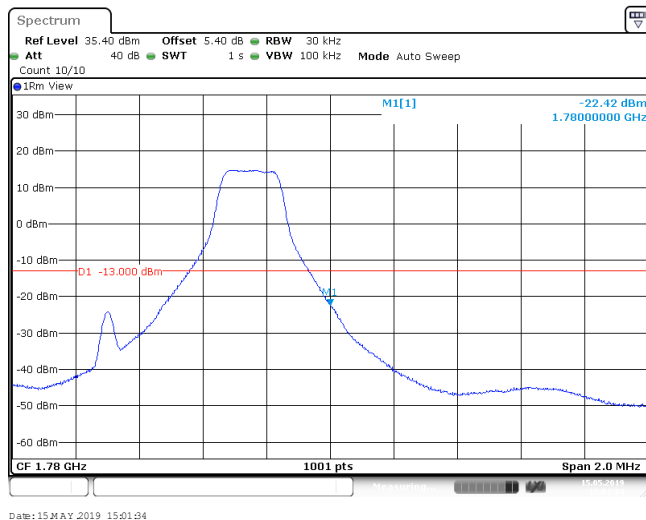
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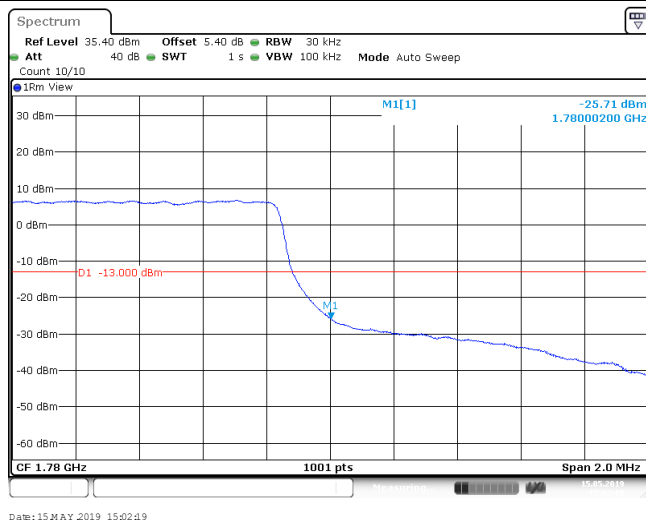
Band66\_1.4MHz\_16QAM\_132665\_1RB#5



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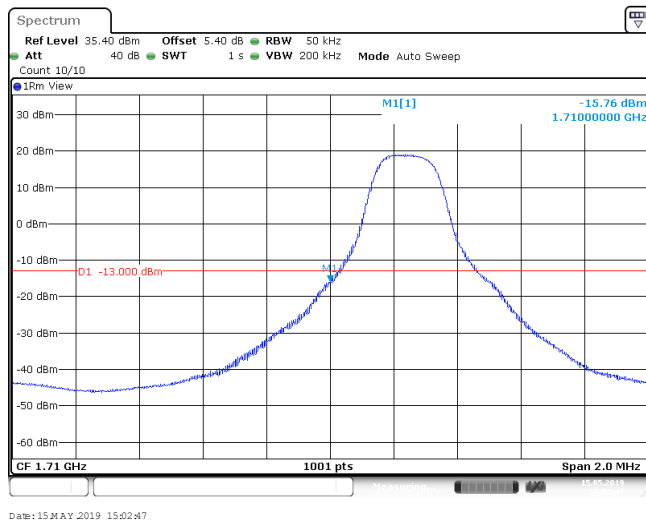


Band66\_1.4MHz\_16QAM\_132665\_6RB#0

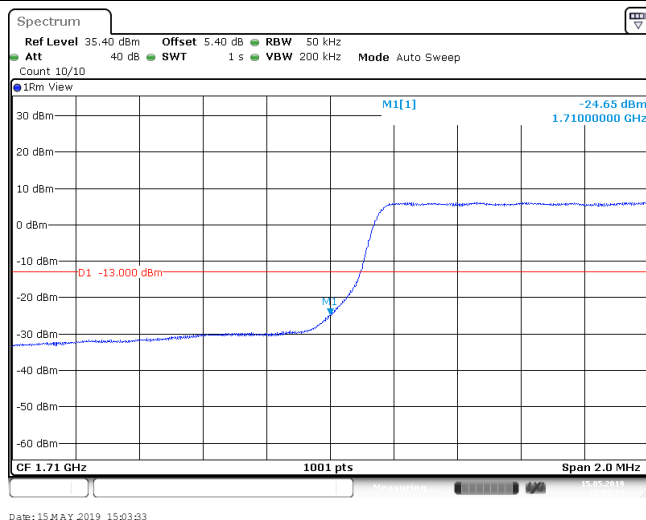


Band66\_3MHz\_QPSK\_131987\_1RB#0





**Band66\_3MHz\_QPSK\_131987\_15RB#0**

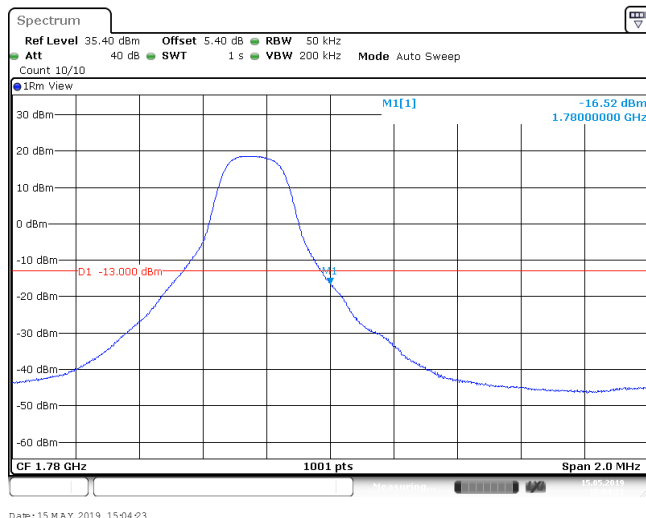


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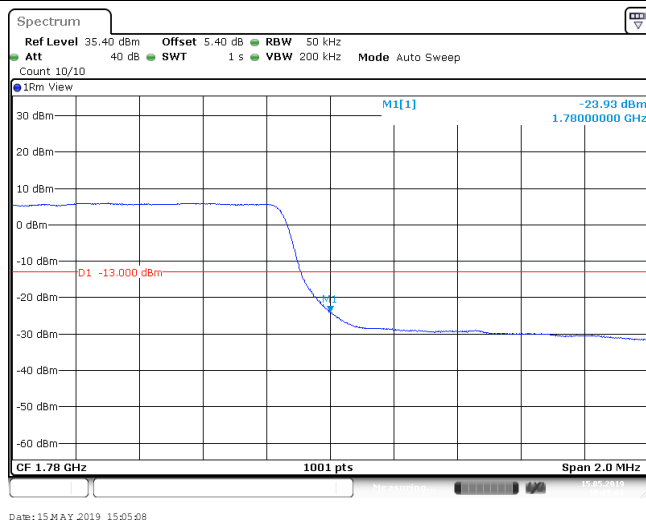


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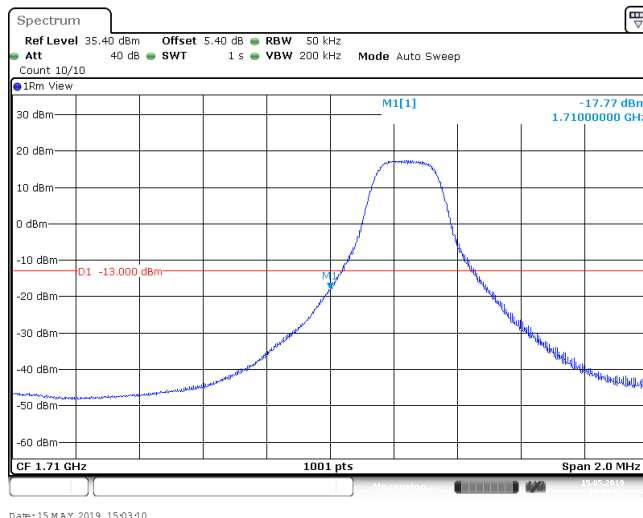
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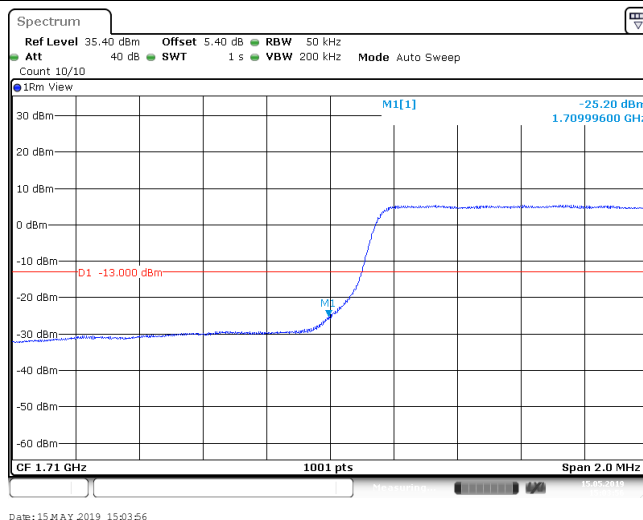
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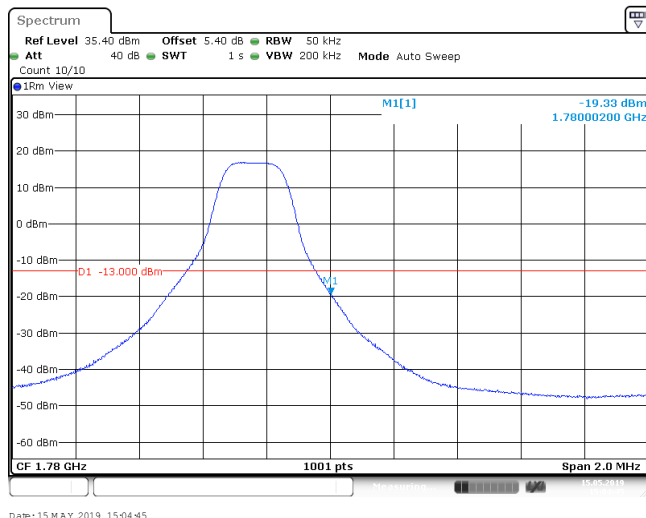


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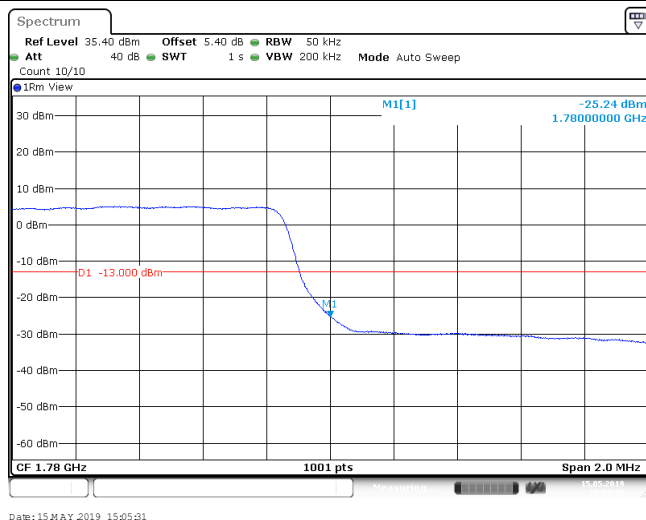


Band66\_3MHz\_16QAM\_132657\_1RB#14





**Band66\_3MHz\_16QAM\_132657\_15RB#0**

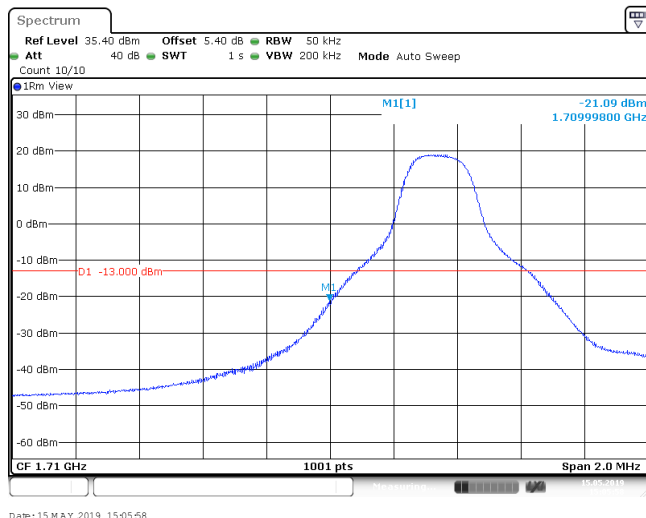


**Band66\_5MHz\_QPSK\_131997\_1RB#0**

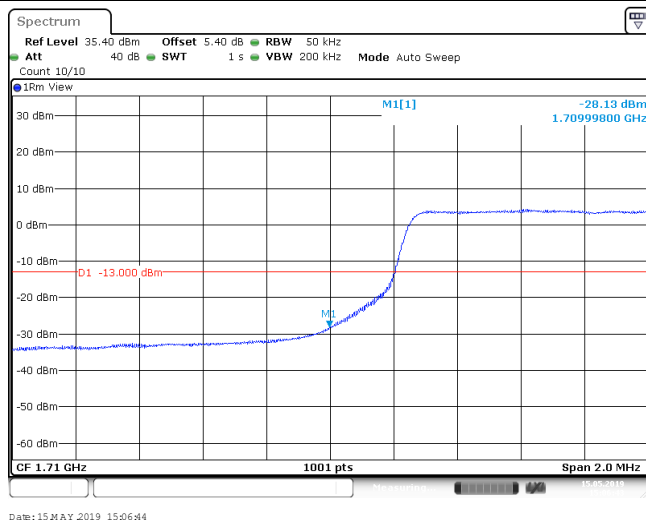


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Band66\_5MHz\_QPSK\_131997\_25RB#0



Band66\_5MHz\_QPSK\_132647\_1RB#24

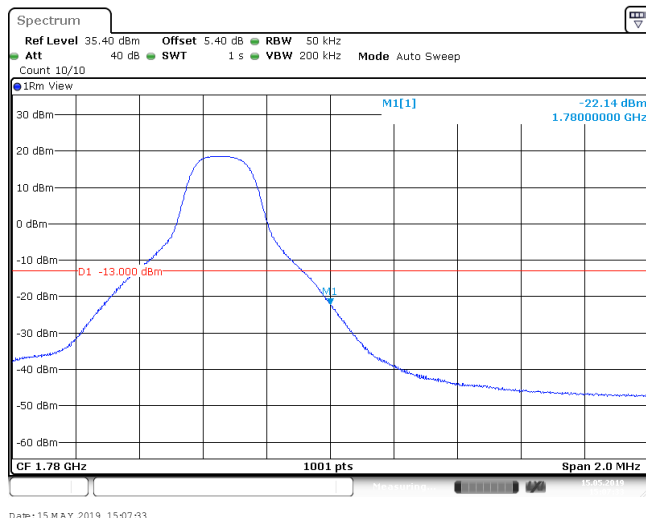


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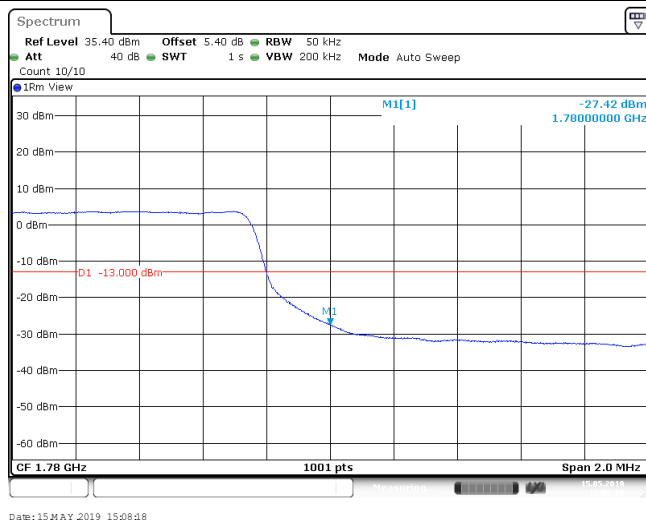
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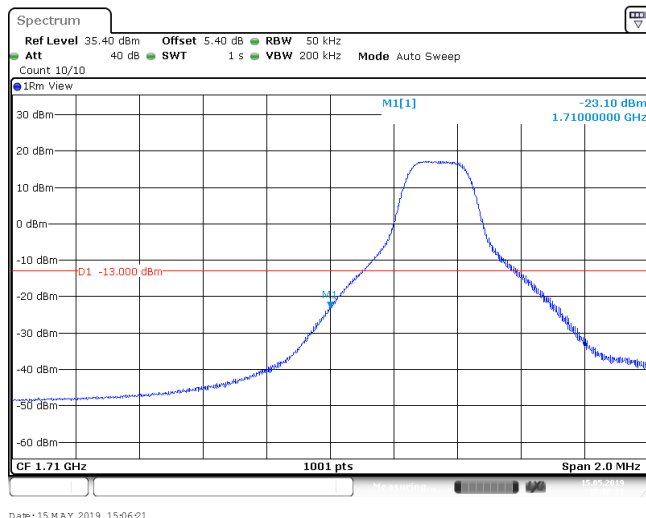
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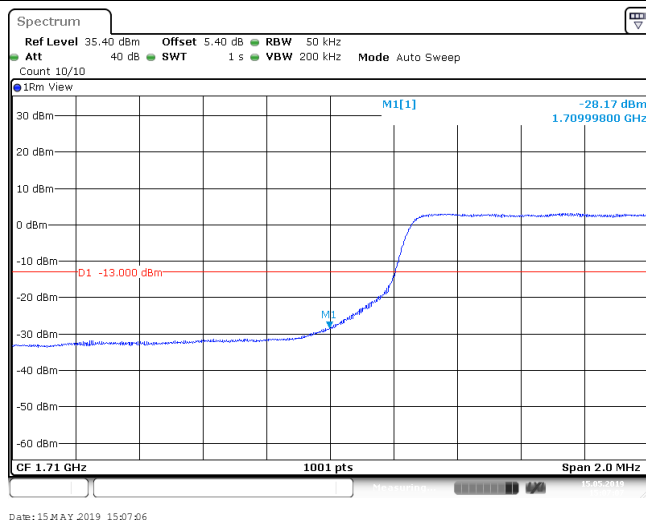
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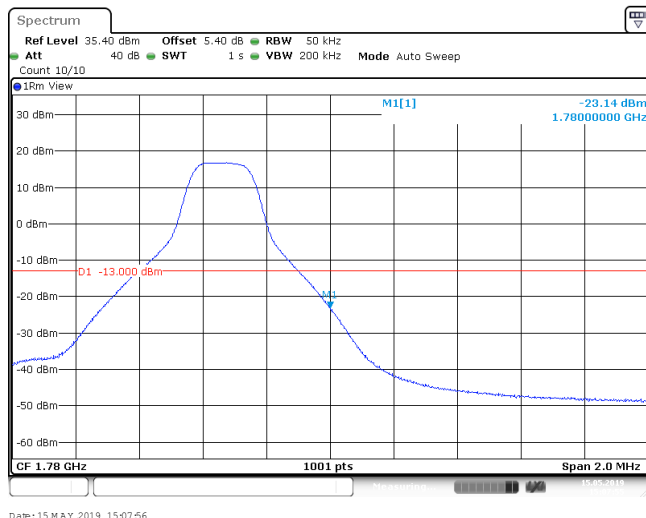


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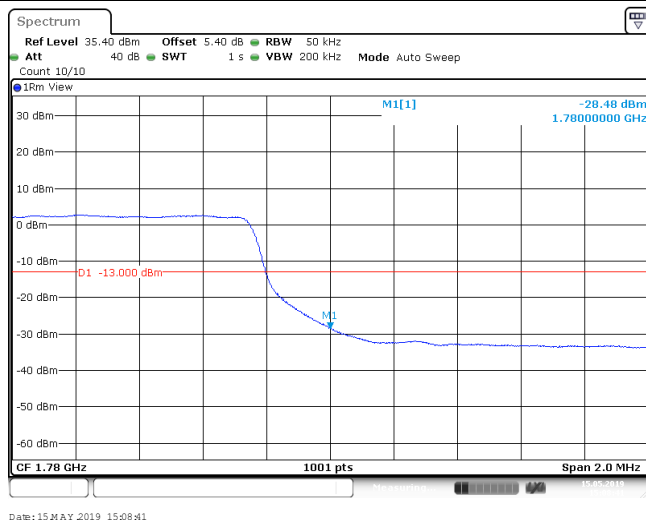


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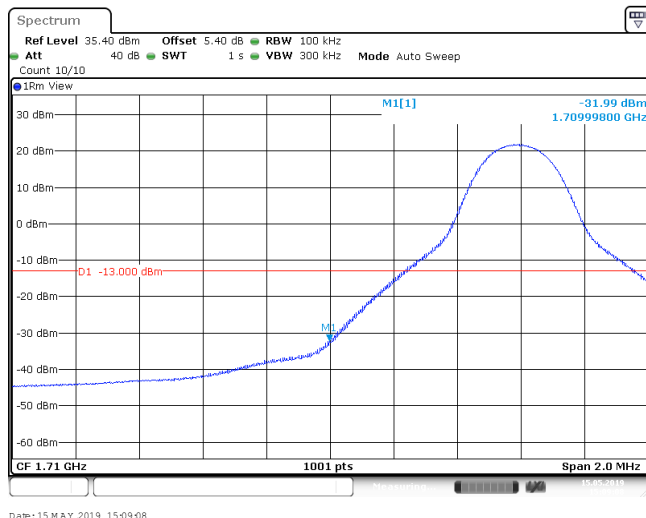


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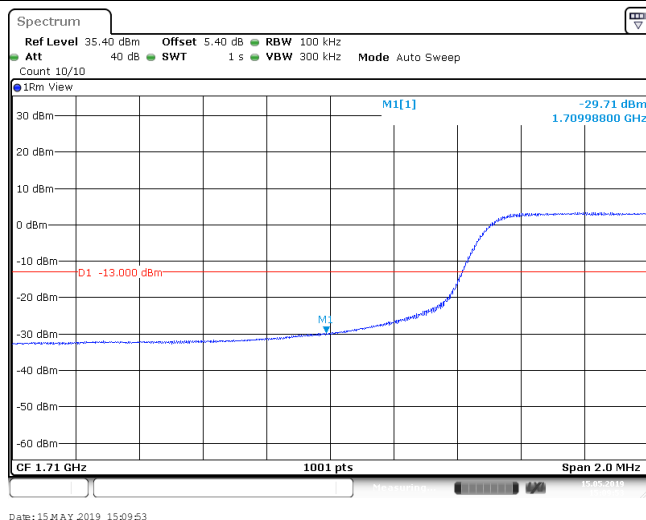


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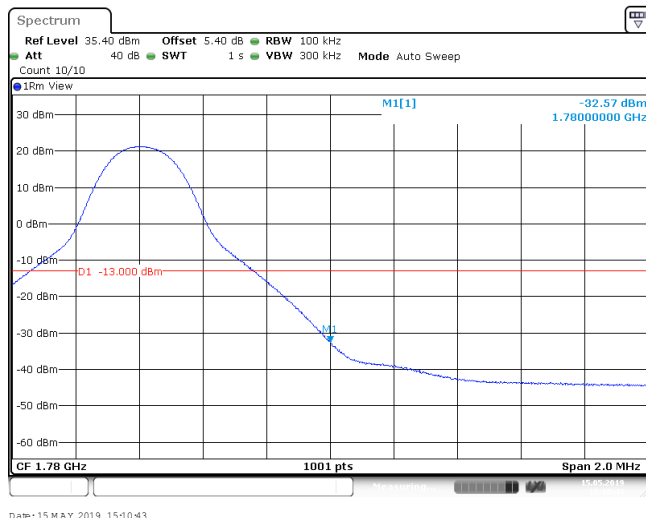


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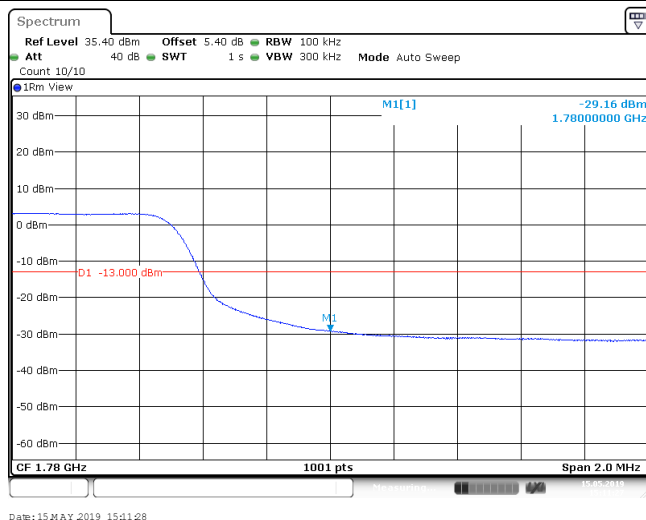


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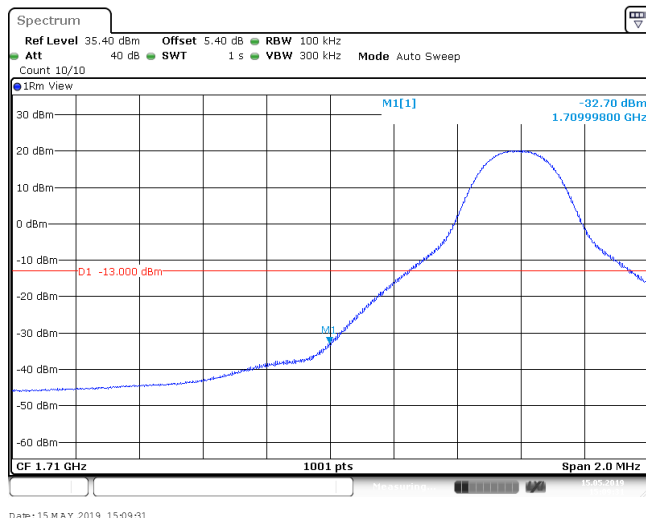
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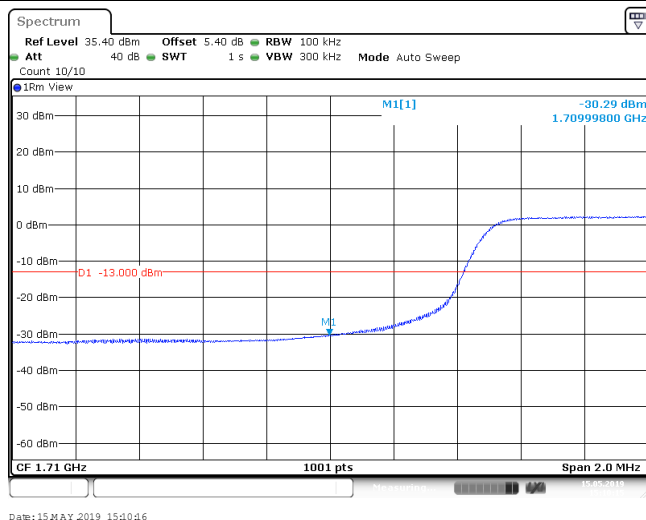
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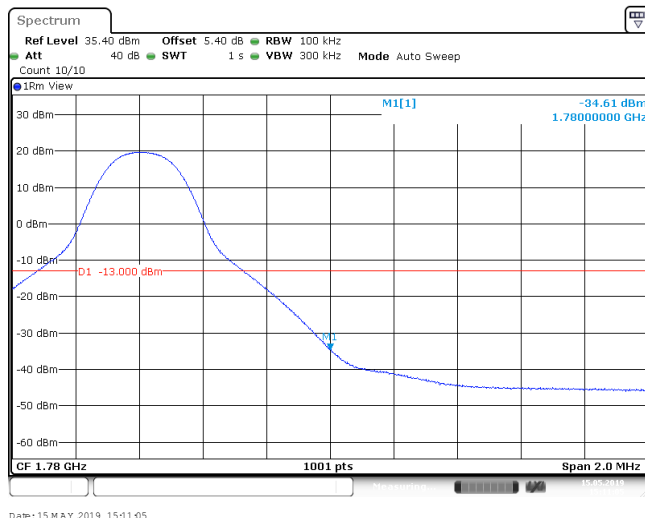
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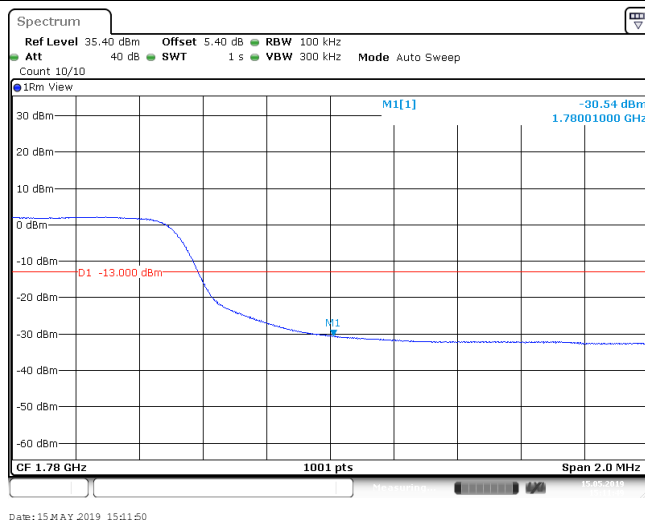
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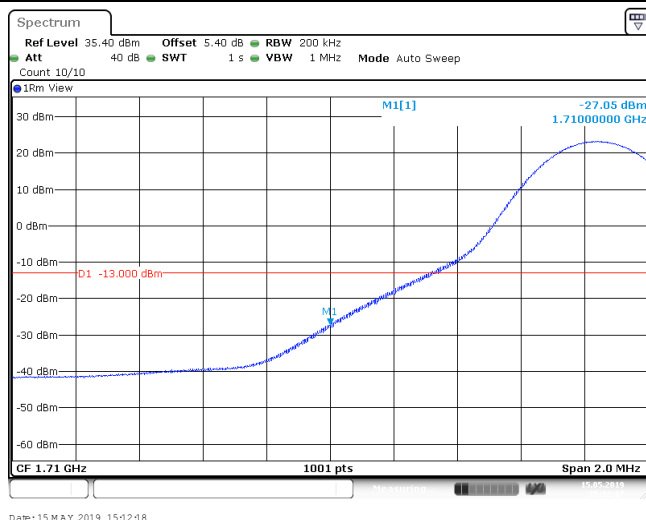


Band66\_10MHz\_16QAM\_132622\_50RB#0

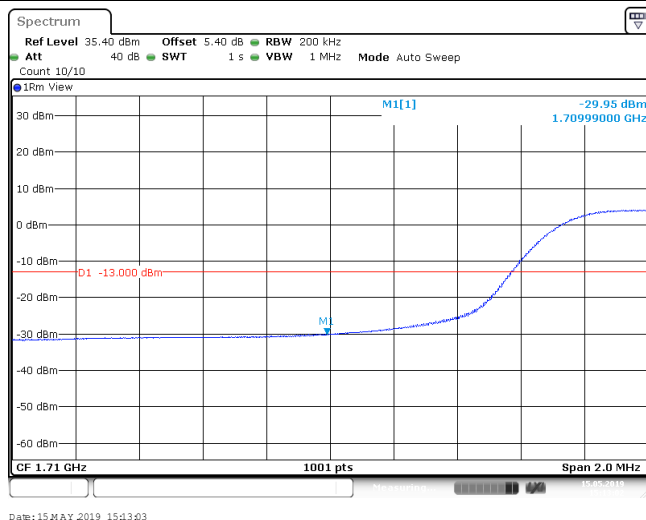


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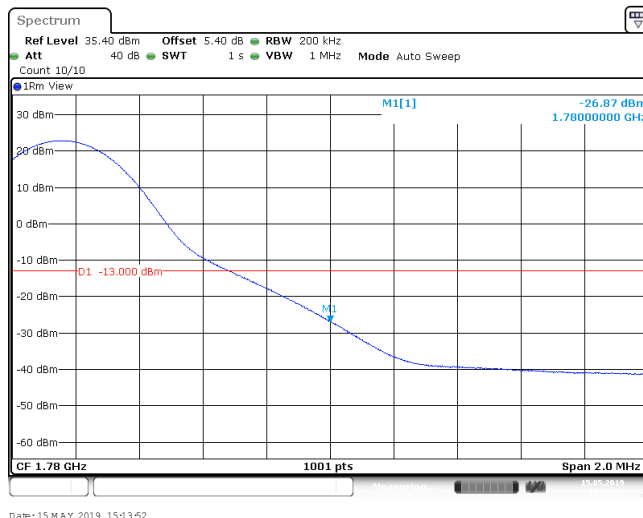


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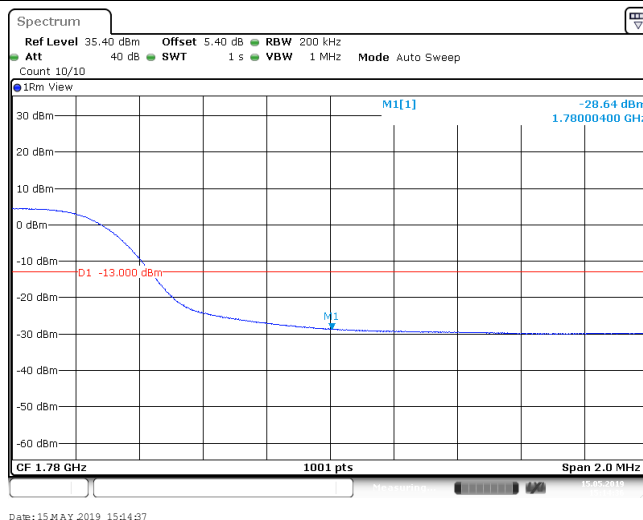


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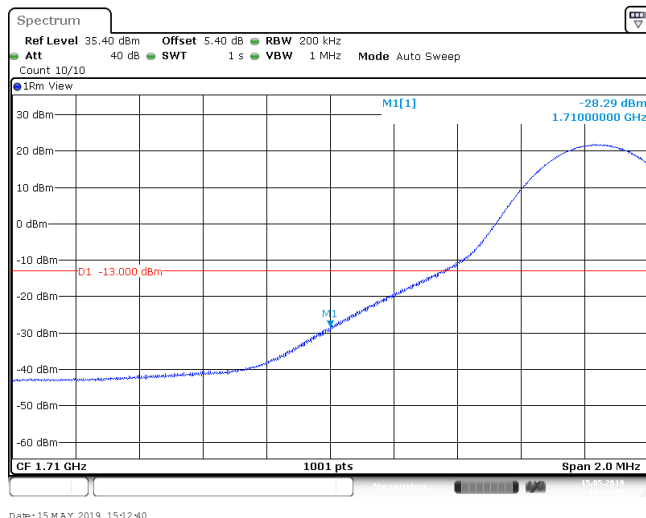
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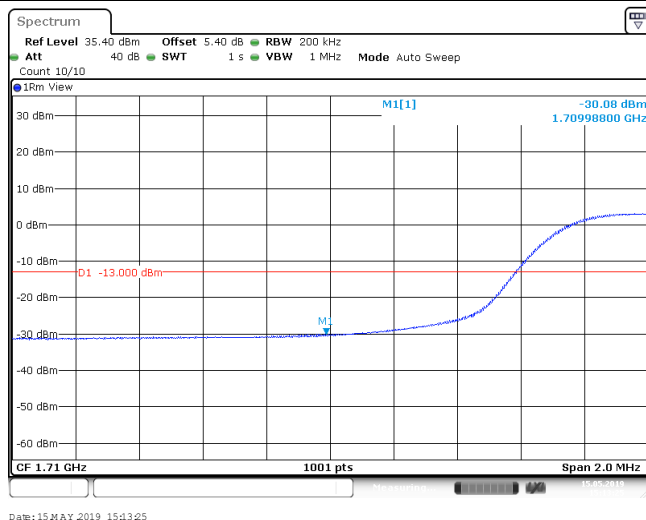
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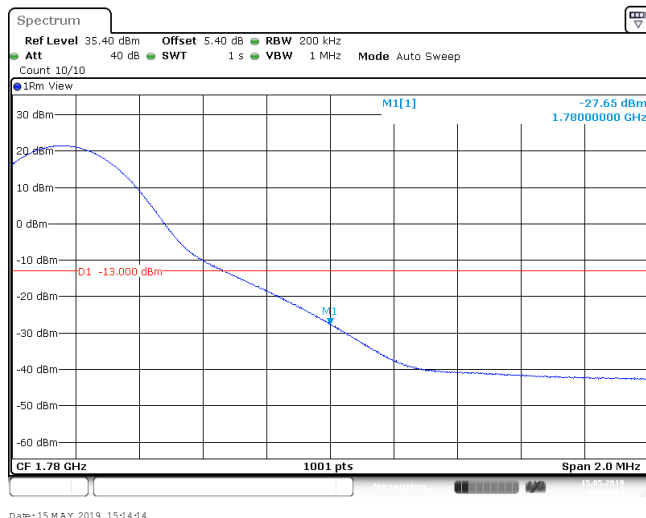
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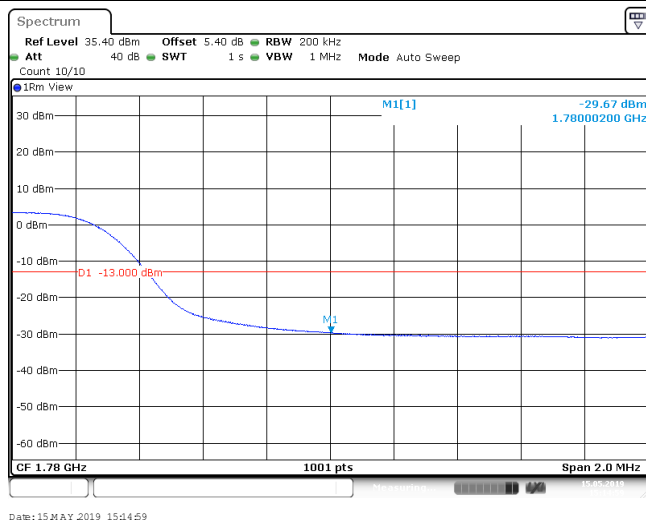
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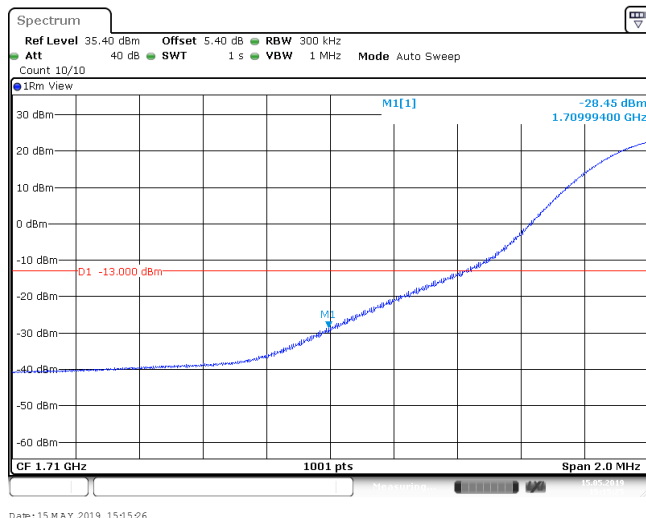


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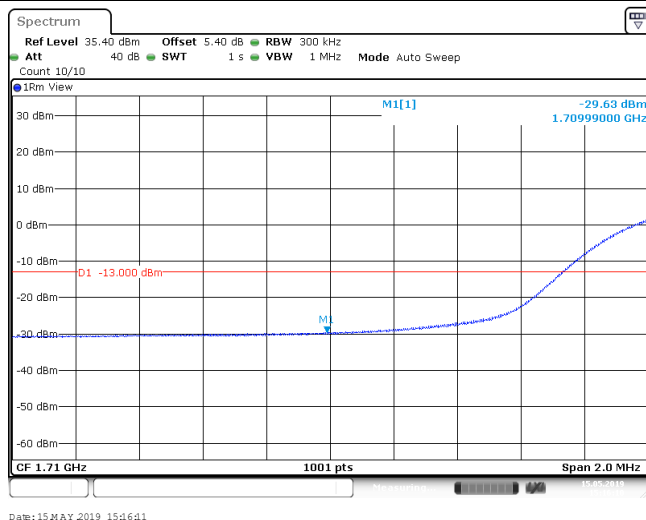


Band66\_20MHz\_QPSK\_132072\_1RB#0





Band66\_20MHz\_QPSK\_132072\_100RB#0

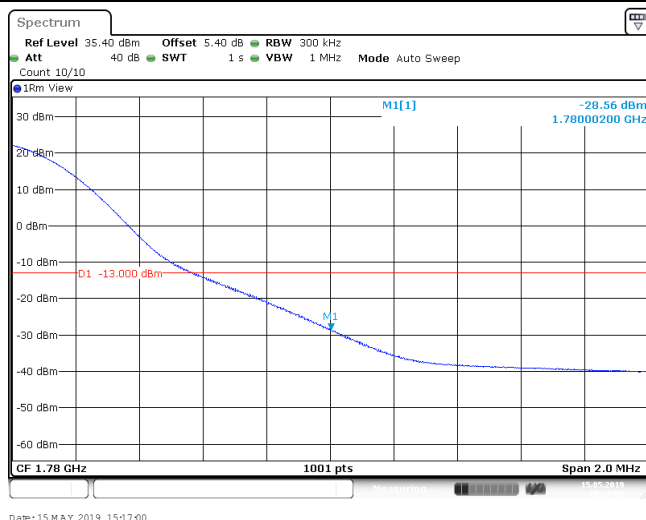


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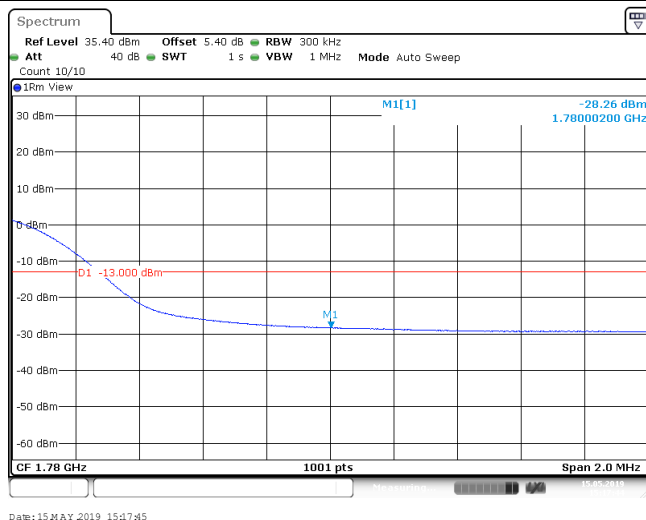


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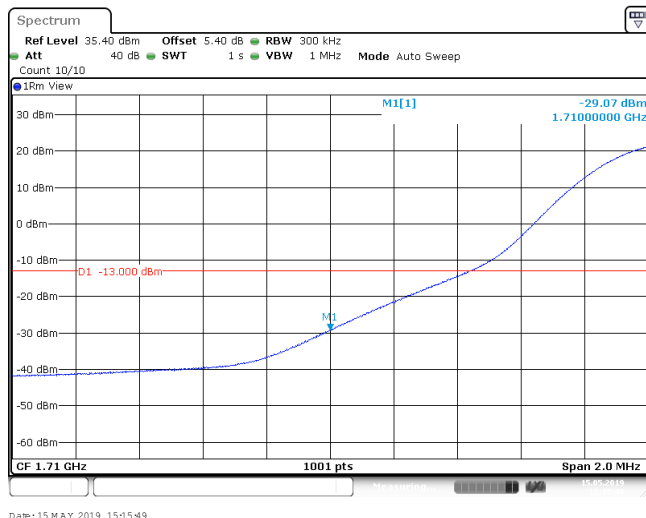
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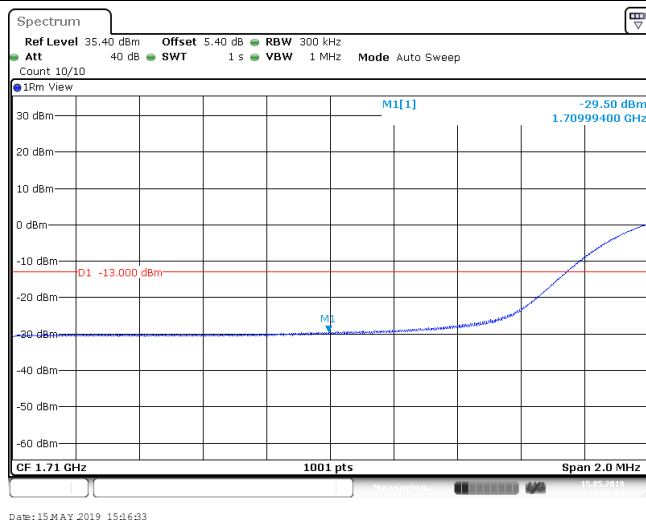
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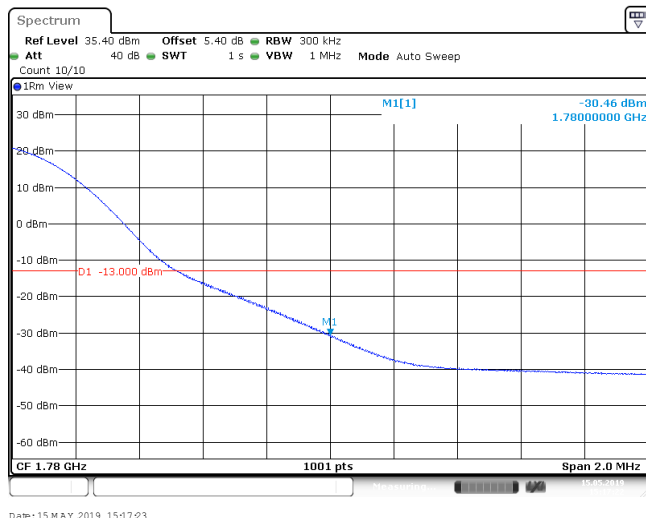


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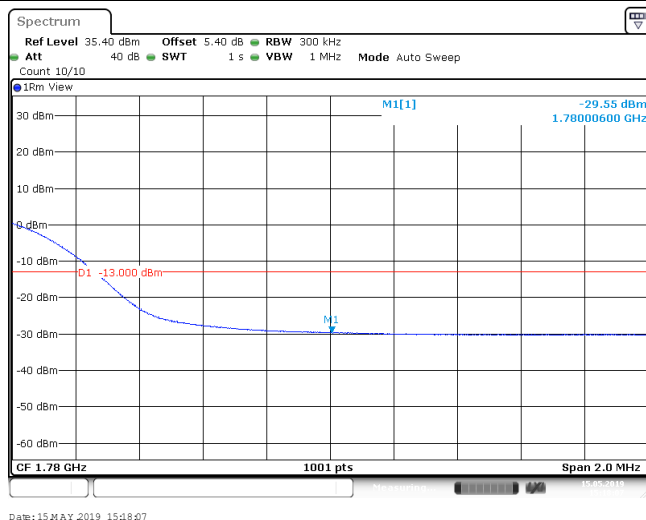
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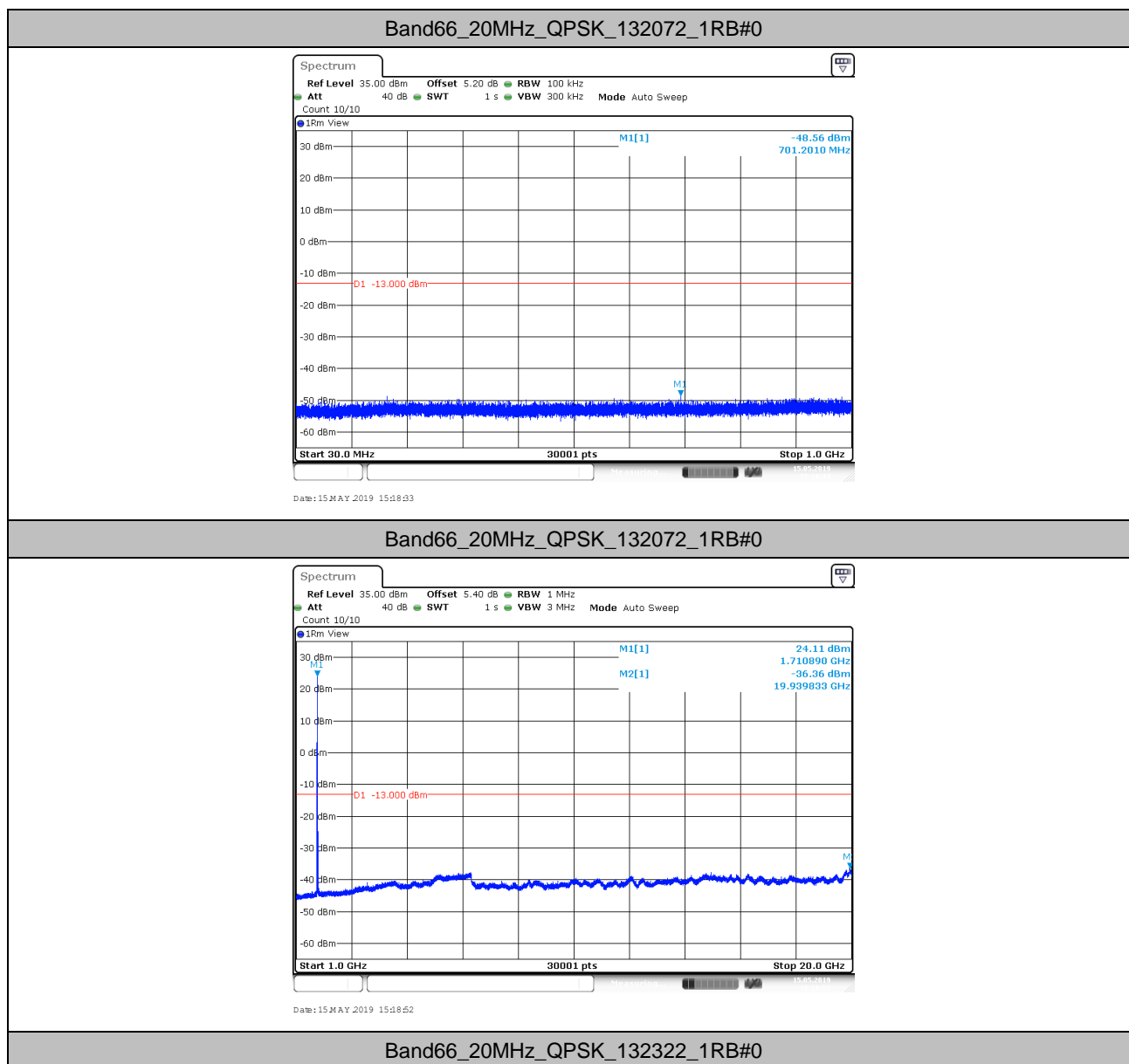


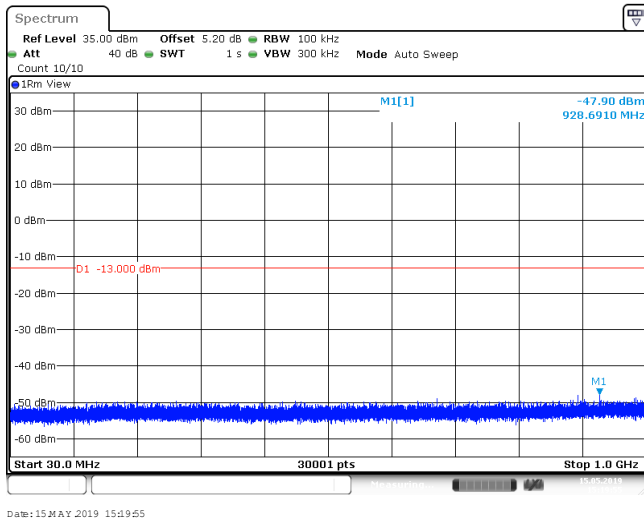
## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

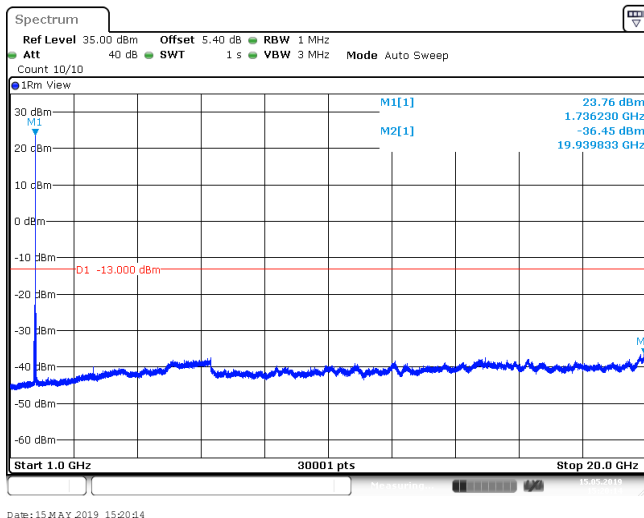
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



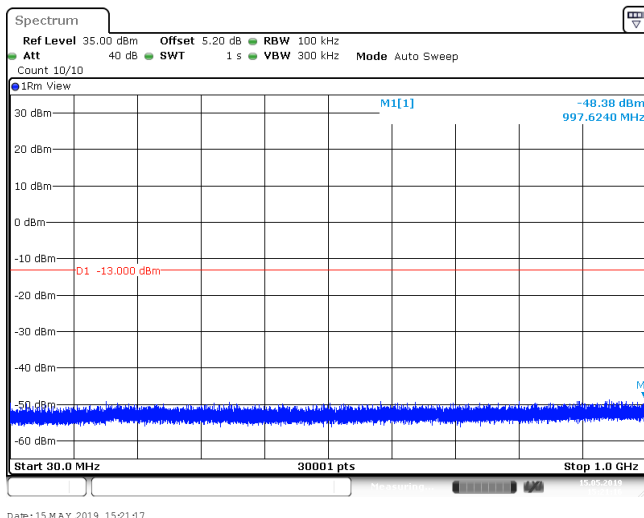


Band66\_20MHz\_QPSK\_132322\_1RB#0

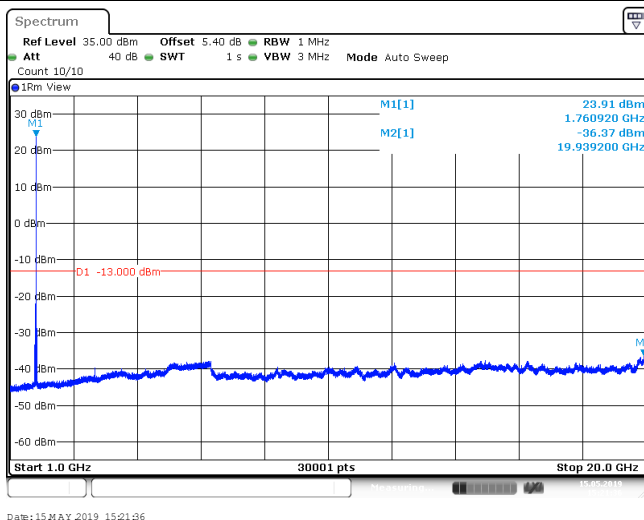


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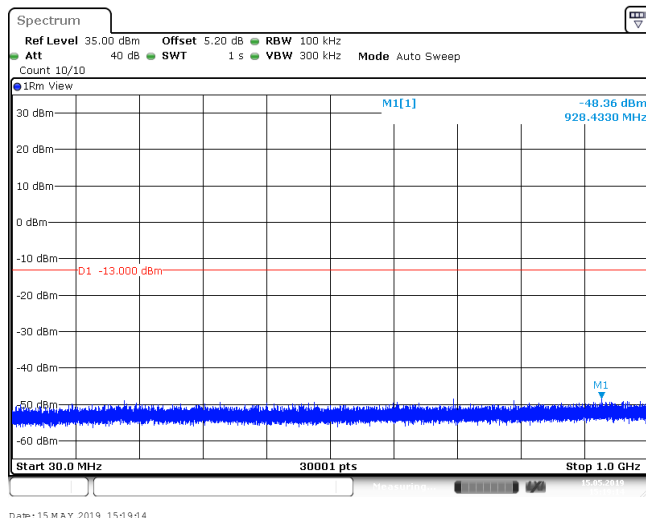
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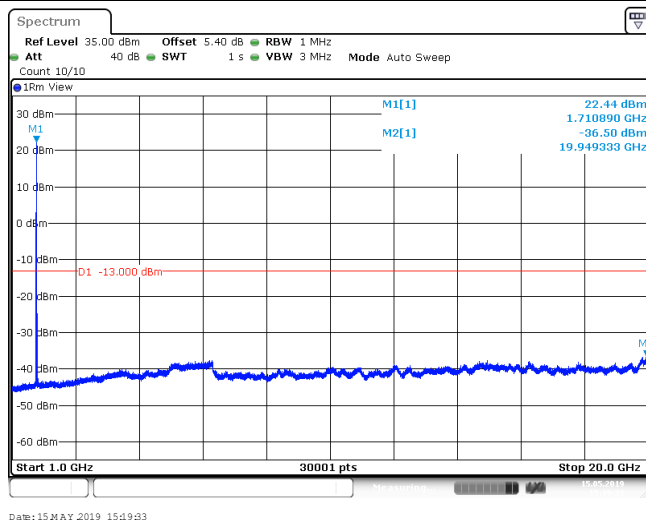
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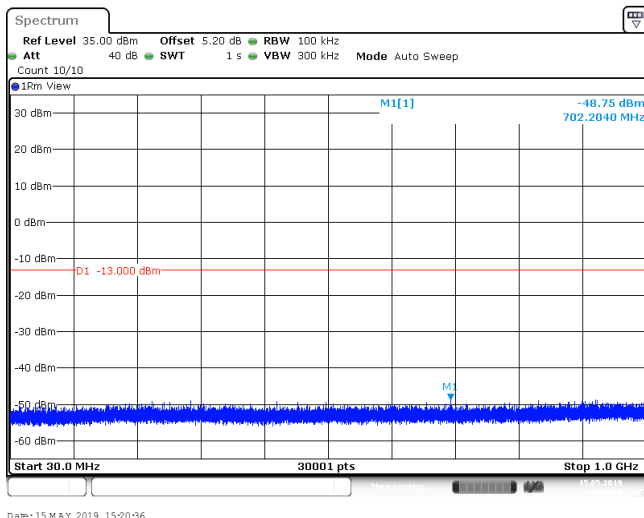


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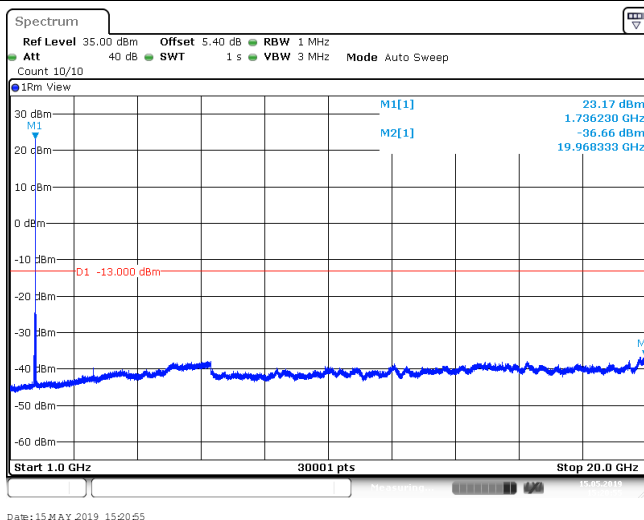


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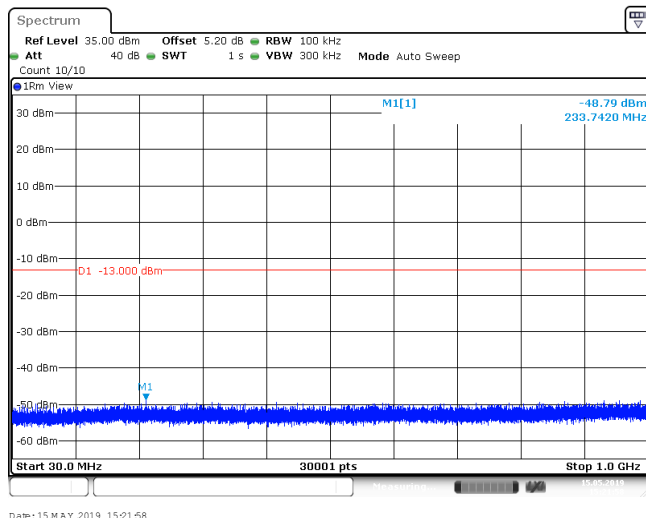


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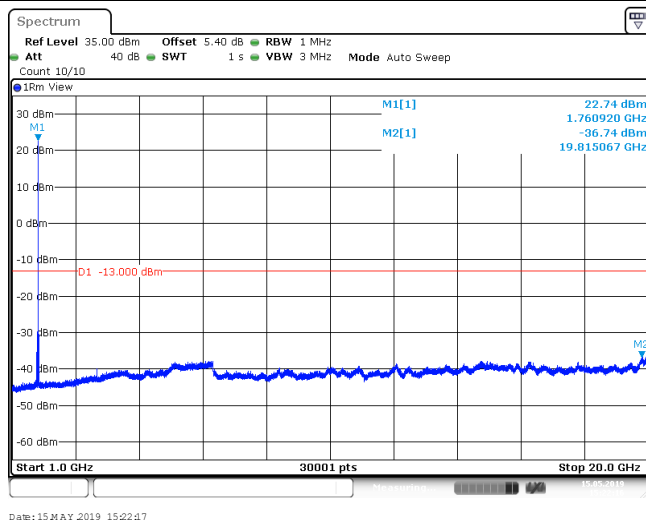


Band66\_20MHz\_16QAM\_132572\_1RB#0





## Band66\_20MHz\_16QAM\_132572\_1RB#0



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## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band 66

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

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.850000	-81.42	-13.00	68.42	Vertical
125.000000	-86.70	-13.00	73.70	Vertical
342.400000	-85.97	-13.00	72.97	Vertical
3421.850000	-46.50	-13.00	33.50	Vertical
5132.975000	-61.36	-13.00	48.36	Vertical
7935.775000	-63.90	-13.00	50.90	Vertical
62.550000	-77.54	-13.00	64.54	Horizontal
196.800000	-78.54	-13.00	65.54	Horizontal
575.995833	-79.74	-13.00	66.74	Horizontal
3421.850000	-49.06	-13.00	36.06	Horizontal
5132.975000	-66.02	-13.00	53.02	Horizontal
8007.275000	-64.46	-13.00	51.46	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.550000	-77.54	-13.00	64.54	Vertical
196.800000	-78.54	-13.00	65.54	Vertical
575.995833	-79.74	-13.00	66.74	Vertical
3421.850000	-49.06	-13.00	36.06	Vertical
5132.975000	-66.02	-13.00	53.02	Vertical
8007.275000	-64.46	-13.00	51.46	Vertical
62.250000	-77.44	-13.00	64.44	Horizontal
206.400000	-81.46	-13.00	68.46	Horizontal
575.995833	-79.90	-13.00	66.90	Horizontal
3471.900000	-47.88	-13.00	34.88	Horizontal
6040.050000	-64.97	-13.00	51.97	Horizontal
9242.275000	-62.92	-13.00	49.92	Horizontal



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### 7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.900000	-81.20	-13.00	68.20	Vertical
355.200000	-85.77	-13.00	72.77	Vertical
3521.950000	-38.50	-13.00	25.50	Vertical
5283.450000	-65.18	-13.00	52.18	Vertical
7044.625000	-63.94	-13.00	50.94	Vertical
9266.000000	-63.51	-13.00	50.51	Vertical
62.650000	-77.28	-13.00	64.28	Horizontal
300.350000	-86.12	-13.00	73.12	Horizontal
575.995833	-80.81	-13.00	67.81	Horizontal
3522.275000	-42.72	-13.00	29.72	Horizontal
6028.675000	-65.22	-13.00	52.22	Horizontal
7968.925000	-63.53	-13.00	50.53	Horizontal

#### Remark:

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 had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.







## 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	1.60	0.000930	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	2.60	0.001512	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	1.50	0.000872	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-2.50	-0.001433	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.30	-0.001891	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-2.80	-0.001605	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	0.50	0.000282	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	0.70	0.000395	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	1.00	0.000565	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	1.60	0.000930	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	3.40	0.001977	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	1.40	0.000814	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-2.90	-0.001662	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-3.90	-0.002235	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-4.10	-0.002350	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	0.90	0.000508	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	1.90	0.001073	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	1.30	0.000734	±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	1.90	0.001105	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	2.30	0.001337	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	3.10	0.001802	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	1.30	0.000756	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	2.70	0.001570	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-2.40	-0.001375	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-2.50	-0.001433	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	-3.70	-0.002120	±2.5	PASS



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Band66	20MHz	QPSK	132322	100RB#0	NV	10	-4.10	-0.002350	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-3.50	-0.002006	±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	0.30	0.000169	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	1.80	0.001017	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-0.10	-0.000056	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	0.20	0.000113	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	1.40	0.000814	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	1.00	0.000581	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	0.40	0.000233	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	0.50	0.000291	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	2.10	0.001221	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-4.60	-0.002636	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-3.20	-0.001834	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-4.10	-0.002350	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-4.40	-0.002521	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	-3.80	-0.002178	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	-0.90	-0.000508	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	0.60	0.000339	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-0.90	-0.000508	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	1.20	0.000678	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-0.30	-0.000169	±2.5	PASS

The End



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