



Appendix B

E-UTRA BAND 4



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
BAND4	1.4MHz	QPSK	19957	1RB#0	23.30	24.7	30.00	PASS
BAND4	1.4MHz	QPSK	19957	1RB#2	23.31	24.71	30.00	PASS
BAND4	1.4MHz	QPSK	19957	1RB#5	23.23	24.63	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#0	23.29	24.69	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#1	23.36	24.76	30.00	PASS
BAND4	1.4MHz	QPSK	19957	3RB#3	23.14	24.54	30.00	PASS
BAND4	1.4MHz	QPSK	19957	6RB#0	22.24	23.64	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#0	23.21	24.61	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#2	23.30	24.7	30.00	PASS
BAND4	1.4MHz	QPSK	20175	1RB#5	23.19	24.59	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#0	23.12	24.52	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#1	23.38	24.78	30.00	PASS
BAND4	1.4MHz	QPSK	20175	3RB#3	23.29	24.69	30.00	PASS
BAND4	1.4MHz	QPSK	20175	6RB#0	22.28	23.68	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#0	23.39	24.79	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#2	23.42	24.82	30.00	PASS
BAND4	1.4MHz	QPSK	20393	1RB#5	23.42	24.82	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#0	23.32	24.72	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#1	23.49	24.89	30.00	PASS
BAND4	1.4MHz	QPSK	20393	3RB#3	23.45	24.85	30.00	PASS
BAND4	1.4MHz	QPSK	20393	6RB#0	22.50	23.9	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#0	22.13	23.53	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#2	22.10	23.5	30.00	PASS
BAND4	1.4MHz	16QAM	19957	1RB#5	22.30	23.7	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#0	22.34	23.74	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#1	22.69	24.09	30.00	PASS
BAND4	1.4MHz	16QAM	19957	3RB#3	22.30	23.7	30.00	PASS
BAND4	1.4MHz	16QAM	19957	6RB#0	21.33	22.73	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#0	22.41	23.81	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#2	22.38	23.78	30.00	PASS
BAND4	1.4MHz	16QAM	20175	1RB#5	22.21	23.61	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#0	22.57	23.97	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#1	22.53	23.93	30.00	PASS
BAND4	1.4MHz	16QAM	20175	3RB#3	22.34	23.74	30.00	PASS



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BAND4	1.4MHz	16QAM	20175	6RB#0	21.30	22.7	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#0	22.28	23.68	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#2	22.81	24.21	30.00	PASS
BAND4	1.4MHz	16QAM	20393	1RB#5	22.44	23.84	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#0	22.65	24.05	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#1	22.75	24.15	30.00	PASS
BAND4	1.4MHz	16QAM	20393	3RB#3	22.36	23.76	30.00	PASS
BAND4	1.4MHz	16QAM	20393	6RB#0	21.49	22.89	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#0	23.13	24.53	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#8	23.04	24.44	30.00	PASS
BAND4	3MHz	QPSK	19965	1RB#14	23.15	24.55	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#0	22.28	23.68	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#4	22.21	23.61	30.00	PASS
BAND4	3MHz	QPSK	19965	8RB#7	22.21	23.61	30.00	PASS
BAND4	3MHz	QPSK	19965	15RB#0	22.21	23.61	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#0	23.27	24.67	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#8	23.25	24.65	30.00	PASS
BAND4	3MHz	QPSK	20175	1RB#14	23.20	24.6	30.00	PASS
BAND4	3MHz	QPSK	20175	8RB#0	22.18	23.58	30.00	PASS
BAND4	3MHz	QPSK	20175	8RB#4	22.28	23.68	30.00	PASS
BAND4	3MHz	QPSK	20175	8RB#7	22.49	23.89	30.00	PASS
BAND4	3MHz	QPSK	20175	15RB#0	22.30	23.7	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#0	23.40	24.8	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#8	23.38	24.78	30.00	PASS
BAND4	3MHz	QPSK	20385	1RB#14	23.45	24.85	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#0	22.60	24	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#4	22.49	23.89	30.00	PASS
BAND4	3MHz	QPSK	20385	8RB#7	22.53	23.93	30.00	PASS
BAND4	3MHz	QPSK	20385	15RB#0	22.58	23.98	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#0	22.30	23.7	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#8	22.06	23.46	30.00	PASS
BAND4	3MHz	16QAM	19965	1RB#14	22.42	23.82	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#0	21.26	22.66	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#4	21.14	22.54	30.00	PASS
BAND4	3MHz	16QAM	19965	8RB#7	21.04	22.44	30.00	PASS
BAND4	3MHz	16QAM	19965	15RB#0	21.23	22.63	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#0	22.35	23.75	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#8	22.26	23.66	30.00	PASS
BAND4	3MHz	16QAM	20175	1RB#14	22.31	23.71	30.00	PASS
BAND4	3MHz	16QAM	20175	8RB#0	21.16	22.56	30.00	PASS
BAND4	3MHz	16QAM	20175	8RB#4	21.15	22.55	30.00	PASS

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BAND4	3MHz	16QAM	20175	8RB#7	21.13	22.53	30.00	PASS
BAND4	3MHz	16QAM	20175	15RB#0	21.22	22.62	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#0	22.61	24.01	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#8	22.47	23.87	30.00	PASS
BAND4	3MHz	16QAM	20385	1RB#14	22.50	23.9	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#0	21.65	23.05	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#4	21.68	23.08	30.00	PASS
BAND4	3MHz	16QAM	20385	8RB#7	21.48	22.88	30.00	PASS
BAND4	3MHz	16QAM	20385	15RB#0	21.74	23.14	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#0	23.25	24.65	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#12	22.94	24.34	30.00	PASS
BAND4	5MHz	QPSK	19975	1RB#24	23.26	24.66	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#0	22.22	23.62	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#6	22.29	23.69	30.00	PASS
BAND4	5MHz	QPSK	19975	12RB#13	22.38	23.78	30.00	PASS
BAND4	5MHz	QPSK	19975	25RB#0	22.33	23.73	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#0	23.35	24.75	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#12	23.20	24.6	30.00	PASS
BAND4	5MHz	QPSK	20175	1RB#24	23.46	24.86	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#0	22.32	23.72	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#6	22.23	23.63	30.00	PASS
BAND4	5MHz	QPSK	20175	12RB#13	22.41	23.81	30.00	PASS
BAND4	5MHz	QPSK	20175	25RB#0	22.32	23.72	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#0	23.44	24.84	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#12	23.18	24.58	30.00	PASS
BAND4	5MHz	QPSK	20375	1RB#24	23.64	25.04	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#0	22.48	23.88	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#6	22.53	23.93	30.00	PASS
BAND4	5MHz	QPSK	20375	12RB#13	22.64	24.04	30.00	PASS
BAND4	5MHz	QPSK	20375	25RB#0	22.57	23.97	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#0	22.28	23.68	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#12	22.34	23.74	30.00	PASS
BAND4	5MHz	16QAM	19975	1RB#24	22.22	23.62	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#0	21.16	22.56	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#6	21.34	22.74	30.00	PASS
BAND4	5MHz	16QAM	19975	12RB#13	21.23	22.63	30.00	PASS
BAND4	5MHz	16QAM	19975	25RB#0	21.39	22.79	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#0	22.95	24.35	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#12	22.44	23.84	30.00	PASS
BAND4	5MHz	16QAM	20175	1RB#24	22.40	23.8	30.00	PASS
BAND4	5MHz	16QAM	20175	12RB#0	21.22	22.62	30.00	PASS

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BAND4	5MHz	16QAM	20175	12RB#6	21.42	22.82	30.00	PASS
BAND4	5MHz	16QAM	20175	12RB#13	21.37	22.77	30.00	PASS
BAND4	5MHz	16QAM	20175	25RB#0	21.35	22.75	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#0	22.62	24.02	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#12	22.64	24.04	30.00	PASS
BAND4	5MHz	16QAM	20375	1RB#24	22.48	23.88	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#0	21.49	22.89	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#6	21.46	22.86	30.00	PASS
BAND4	5MHz	16QAM	20375	12RB#13	21.62	23.02	30.00	PASS
BAND4	5MHz	16QAM	20375	25RB#0	21.59	22.99	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#0	23.15	24.55	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#24	23.54	24.94	30.00	PASS
BAND4	10MHz	QPSK	20000	1RB#49	23.00	24.4	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#0	22.45	23.85	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#12	22.45	23.85	30.00	PASS
BAND4	10MHz	QPSK	20000	25RB#25	22.27	23.67	30.00	PASS
BAND4	10MHz	QPSK	20000	50RB#0	22.27	23.67	30.00	PASS
BAND4	10MHz	QPSK	20175	1RB#0	23.47	24.87	30.00	PASS
BAND4	10MHz	QPSK	20175	1RB#24	23.66	25.06	30.00	PASS
BAND4	10MHz	QPSK	20175	1RB#49	23.32	24.72	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#0	22.38	23.78	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#12	22.52	23.92	30.00	PASS
BAND4	10MHz	QPSK	20175	25RB#25	22.38	23.78	30.00	PASS
BAND4	10MHz	QPSK	20175	50RB#0	22.29	23.69	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#0	23.46	24.86	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#24	23.41	24.81	30.00	PASS
BAND4	10MHz	QPSK	20350	1RB#49	23.29	24.69	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#0	22.69	24.09	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#12	22.51	23.91	30.00	PASS
BAND4	10MHz	QPSK	20350	25RB#25	22.40	23.8	30.00	PASS
BAND4	10MHz	QPSK	20350	50RB#0	22.58	23.98	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#0	22.41	23.81	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#24	22.09	23.49	30.00	PASS
BAND4	10MHz	16QAM	20000	1RB#49	22.39	23.79	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#0	21.30	22.7	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#12	21.40	22.8	30.00	PASS
BAND4	10MHz	16QAM	20000	25RB#25	21.46	22.86	30.00	PASS
BAND4	10MHz	16QAM	20000	50RB#0	21.41	22.81	30.00	PASS
BAND4	10MHz	16QAM	20175	1RB#0	22.69	24.09	30.00	PASS
BAND4	10MHz	16QAM	20175	1RB#24	22.40	23.8	30.00	PASS
BAND4	10MHz	16QAM	20175	1RB#49	22.46	23.86	30.00	PASS

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BAND4	10MHz	16QAM	20175	25RB#0	21.52	22.92	30.00	PASS
BAND4	10MHz	16QAM	20175	25RB#12	21.54	22.94	30.00	PASS
BAND4	10MHz	16QAM	20175	25RB#25	21.41	22.81	30.00	PASS
BAND4	10MHz	16QAM	20175	50RB#0	21.31	22.71	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#0	22.63	24.03	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#24	22.54	23.94	30.00	PASS
BAND4	10MHz	16QAM	20350	1RB#49	22.59	23.99	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#0	21.52	22.92	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#12	21.45	22.85	30.00	PASS
BAND4	10MHz	16QAM	20350	25RB#25	21.54	22.94	30.00	PASS
BAND4	10MHz	16QAM	20350	50RB#0	21.67	23.07	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#0	23.41	24.81	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#38	23.18	24.58	30.00	PASS
BAND4	15MHz	QPSK	20025	1RB#74	23.04	24.44	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#0	22.66	24.06	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#18	22.33	23.73	30.00	PASS
BAND4	15MHz	QPSK	20025	36RB#39	22.16	23.56	30.00	PASS
BAND4	15MHz	QPSK	20025	75RB#0	22.37	23.77	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#0	23.48	24.88	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#38	23.24	24.64	30.00	PASS
BAND4	15MHz	QPSK	20175	1RB#74	23.51	24.91	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#0	22.42	23.82	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#18	22.42	23.82	30.00	PASS
BAND4	15MHz	QPSK	20175	36RB#39	22.56	23.96	30.00	PASS
BAND4	15MHz	QPSK	20175	75RB#0	22.31	23.71	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#0	23.47	24.87	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#38	23.12	24.52	30.00	PASS
BAND4	15MHz	QPSK	20325	1RB#74	23.29	24.69	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#0	22.83	24.23	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#18	22.30	23.7	30.00	PASS
BAND4	15MHz	QPSK	20325	36RB#39	22.30	23.7	30.00	PASS
BAND4	15MHz	QPSK	20325	75RB#0	22.48	23.88	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#0	22.39	23.79	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#38	22.29	23.69	30.00	PASS
BAND4	15MHz	16QAM	20025	1RB#74	22.25	23.65	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#0	21.39	22.79	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#18	21.28	22.68	30.00	PASS
BAND4	15MHz	16QAM	20025	36RB#39	21.27	22.67	30.00	PASS
BAND4	15MHz	16QAM	20025	75RB#0	21.29	22.69	30.00	PASS
BAND4	15MHz	16QAM	20175	1RB#0	22.83	24.23	30.00	PASS
BAND4	15MHz	16QAM	20175	1RB#38	22.68	24.08	30.00	PASS

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BAND4	15MHz	16QAM	20175	1RB#74	22.57	23.97	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#0	21.48	22.88	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#18	21.31	22.71	30.00	PASS
BAND4	15MHz	16QAM	20175	36RB#39	21.37	22.77	30.00	PASS
BAND4	15MHz	16QAM	20175	75RB#0	21.27	22.67	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#0	22.64	24.04	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#38	22.45	23.85	30.00	PASS
BAND4	15MHz	16QAM	20325	1RB#74	22.62	24.02	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#0	21.46	22.86	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#18	21.59	22.99	30.00	PASS
BAND4	15MHz	16QAM	20325	36RB#39	21.38	22.78	30.00	PASS
BAND4	15MHz	16QAM	20325	75RB#0	21.49	22.89	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#0	23.30	24.7	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#49	23.26	24.66	30.00	PASS
BAND4	20MHz	QPSK	20050	1RB#99	22.82	24.22	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#0	22.60	24	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#25	22.15	23.55	30.00	PASS
BAND4	20MHz	QPSK	20050	50RB#50	22.10	23.5	30.00	PASS
BAND4	20MHz	QPSK	20050	100RB#0	22.50	23.9	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#0	23.39	24.79	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#49	23.21	24.61	30.00	PASS
BAND4	20MHz	QPSK	20175	1RB#99	23.51	24.91	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#0	22.36	23.76	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#25	22.44	23.84	30.00	PASS
BAND4	20MHz	QPSK	20175	50RB#50	22.41	23.81	30.00	PASS
BAND4	20MHz	QPSK	20175	100RB#0	22.26	23.66	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#0	23.21	24.61	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#49	23.41	24.81	30.00	PASS
BAND4	20MHz	QPSK	20300	1RB#99	22.88	24.28	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#0	22.52	23.92	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#25	22.35	23.75	30.00	PASS
BAND4	20MHz	QPSK	20300	50RB#50	22.11	23.51	30.00	PASS
BAND4	20MHz	QPSK	20300	100RB#0	22.37	23.77	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#0	22.38	23.78	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#49	22.58	23.98	30.00	PASS
BAND4	20MHz	16QAM	20050	1RB#99	22.33	23.73	30.00	PASS
BAND4	20MHz	16QAM	20050	50RB#0	21.44	22.84	30.00	PASS
BAND4	20MHz	16QAM	20050	50RB#25	21.27	22.67	30.00	PASS
BAND4	20MHz	16QAM	20050	50RB#50	21.45	22.85	30.00	PASS
BAND4	20MHz	16QAM	20050	100RB#0	21.27	22.67	30.00	PASS
BAND4	20MHz	16QAM	20175	1RB#0	22.33	23.73	30.00	PASS

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BAND4	20MHz	16QAM	20175	1RB#49	22.39	23.79	30.00	PASS
BAND4	20MHz	16QAM	20175	1RB#99	22.49	23.89	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#0	21.41	22.81	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#25	21.13	22.53	30.00	PASS
BAND4	20MHz	16QAM	20175	50RB#50	21.45	22.85	30.00	PASS
BAND4	20MHz	16QAM	20175	100RB#0	21.29	22.69	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#0	22.40	23.8	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#49	22.43	23.83	30.00	PASS
BAND4	20MHz	16QAM	20300	1RB#99	22.35	23.75	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#0	21.38	22.78	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#25	21.31	22.71	30.00	PASS
BAND4	20MHz	16QAM	20300	50RB#50	21.51	22.91	30.00	PASS
BAND4	20MHz	16QAM	20300	100RB#0	21.52	22.92	30.00	PASS

Note:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

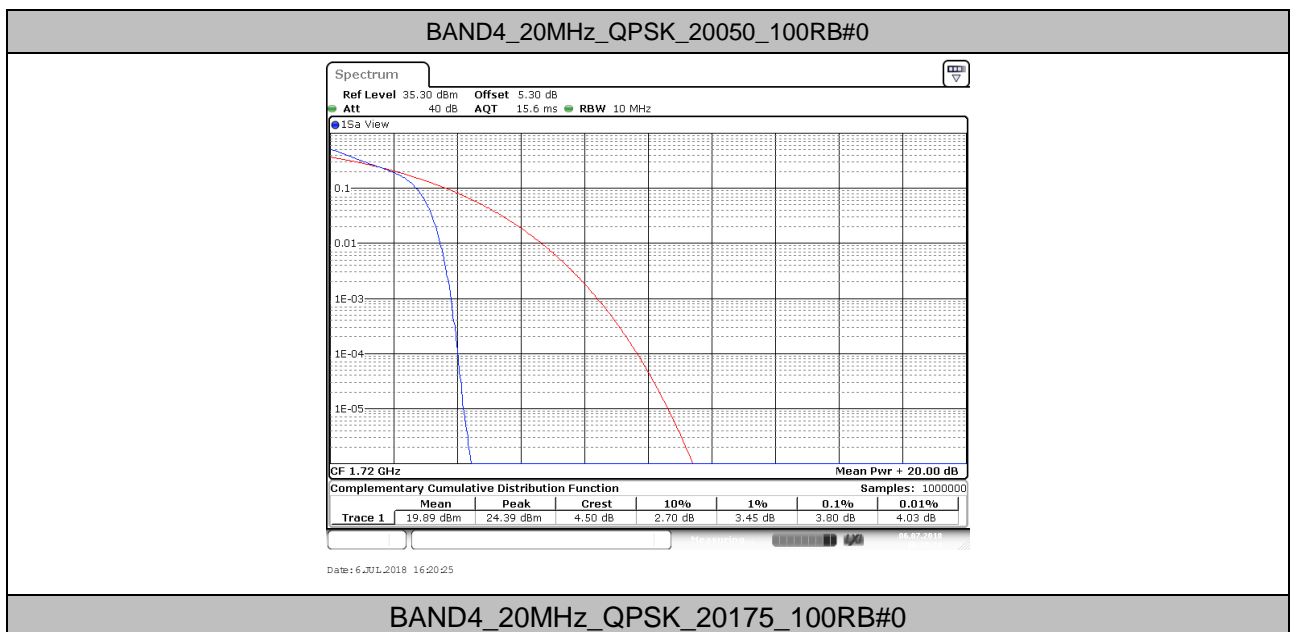


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND4	20MHz	QPSK	20050	100RB#0	3.80	13	PASS
BAND4	20MHz	QPSK	20175	100RB#0	4.03	13	PASS
BAND4	20MHz	QPSK	20300	100RB#0	3.65	13	PASS
BAND4	20MHz	16QAM	20050	100RB#0	5.54	13	PASS
BAND4	20MHz	16QAM	20175	100RB#0	5.71	13	PASS
BAND4	20MHz	16QAM	20300	100RB#0	5.33	13	PASS

2.2. Test Plots

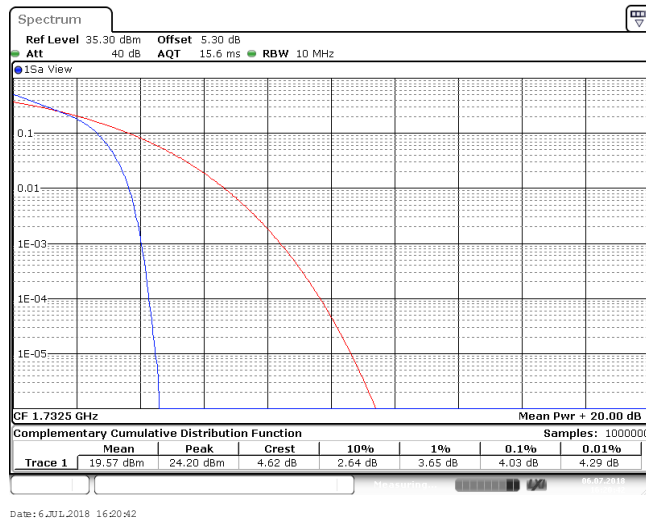




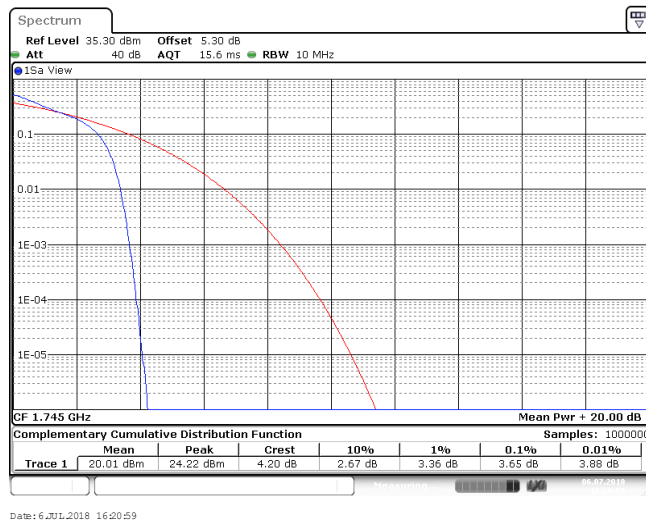
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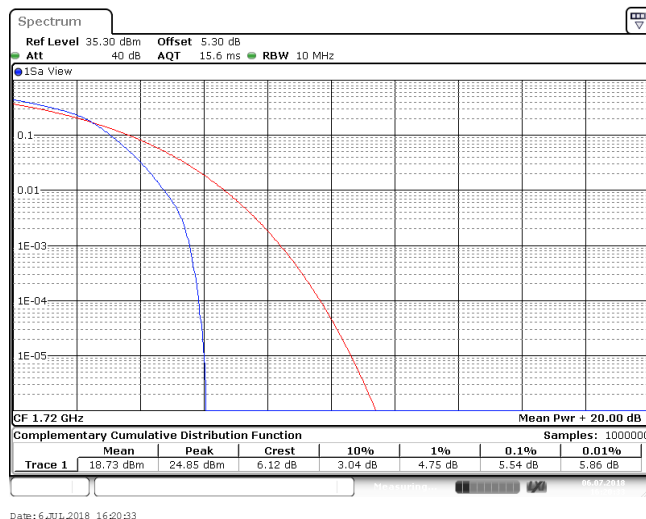
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BAND4_20MHz_QPSK_20300_100RB#0



BAND4_20MHz_16QAM_20050_100RB#0



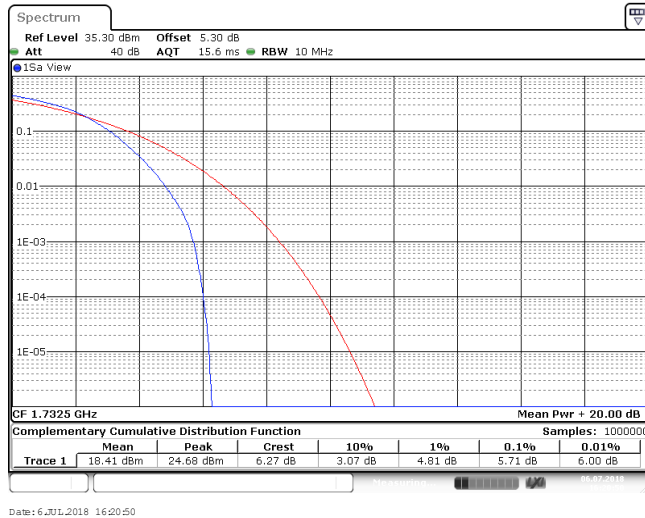
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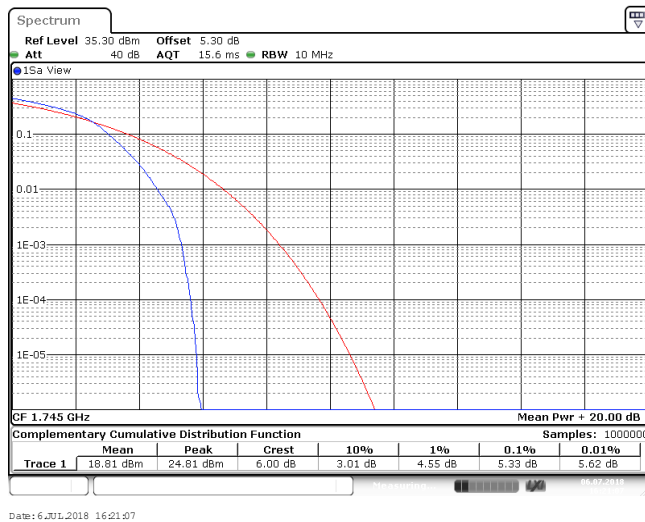
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BAND4_20MHz_16QAM_20300_100RB#0

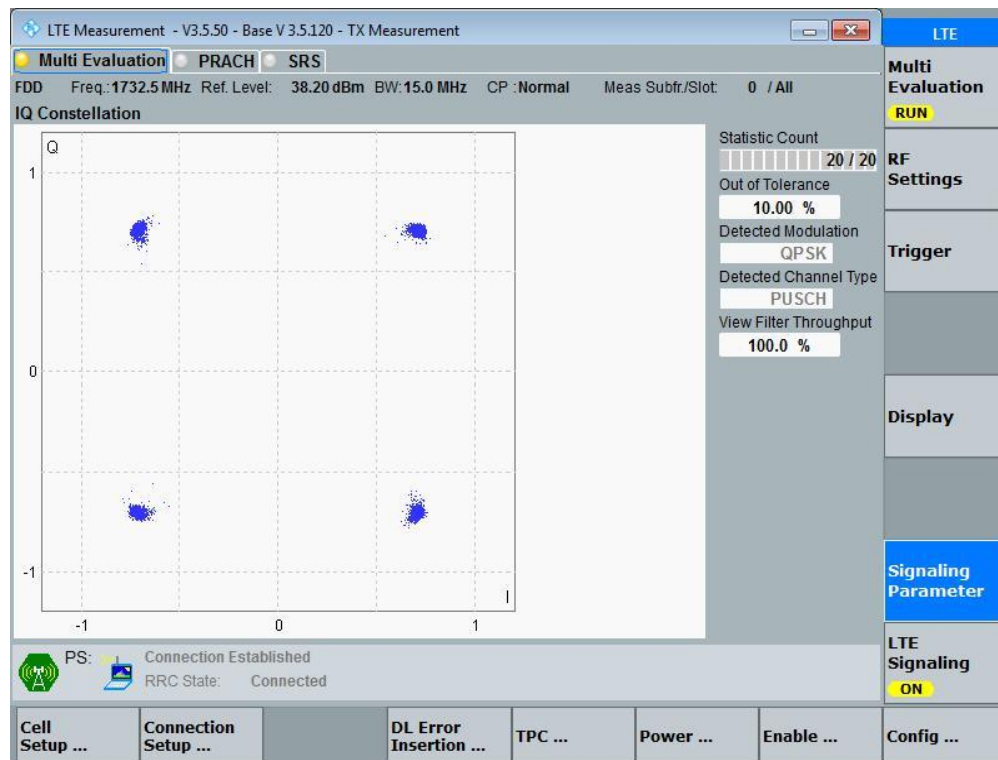


3. Modulation Characteristics

3.1. Test BAND = LTE BAND4

3.1.1. Test Mode = LTE /TM1 20MHz

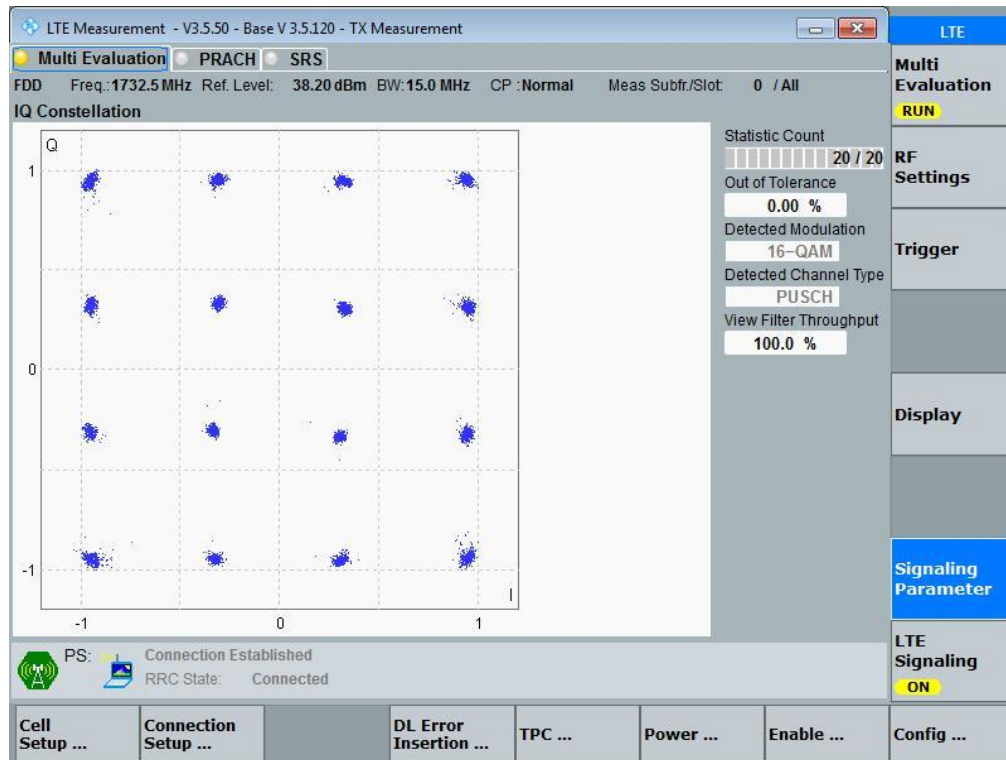
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND4	1.4MHz	QPSK	19957	6RB#0	1.106	1.356	PASS
BAND4	1.4MHz	QPSK	20175	6RB#0	1.088	1.281	PASS
BAND4	1.4MHz	QPSK	20393	6RB#0	1.100	1.332	PASS
BAND4	1.4MHz	16QAM	19957	6RB#0	1.094	1.314	PASS
BAND4	1.4MHz	16QAM	20175	6RB#0	1.094	1.290	PASS
BAND4	1.4MHz	16QAM	20393	6RB#0	1.094	1.332	PASS
BAND4	3MHz	QPSK	19965	15RB#0	2.709	3.312	PASS
BAND4	3MHz	QPSK	20175	15RB#0	2.703	2.982	PASS
BAND4	3MHz	QPSK	20385	15RB#0	2.709	3.336	PASS
BAND4	3MHz	16QAM	19965	15RB#0	2.691	2.976	PASS
BAND4	3MHz	16QAM	20175	15RB#0	2.685	2.970	PASS
BAND4	3MHz	16QAM	20385	15RB#0	2.697	2.994	PASS
BAND4	5MHz	QPSK	19975	25RB#0	4.486	4.990	PASS
BAND4	5MHz	QPSK	20175	25RB#0	4.476	4.960	PASS
BAND4	5MHz	QPSK	20375	25RB#0	4.496	5.660	PASS
BAND4	5MHz	16QAM	19975	25RB#0	4.505	4.980	PASS
BAND4	5MHz	16QAM	20175	25RB#0	4.496	4.980	PASS
BAND4	5MHz	16QAM	20375	25RB#0	4.505	5.000	PASS
BAND4	10MHz	QPSK	20000	50RB#0	8.931	9.800	PASS
BAND4	10MHz	QPSK	20175	50RB#0	8.951	9.780	PASS
BAND4	10MHz	QPSK	20350	50RB#0	8.951	11.560	PASS
BAND4	10MHz	16QAM	20000	50RB#0	8.931	9.740	PASS
BAND4	10MHz	16QAM	20175	50RB#0	8.911	9.780	PASS
BAND4	10MHz	16QAM	20350	50RB#0	8.951	10.860	PASS
BAND4	15MHz	QPSK	20025	75RB#0	13.457	14.820	PASS
BAND4	15MHz	QPSK	20175	75RB#0	13.516	14.730	PASS
BAND4	15MHz	QPSK	20325	75RB#0	13.516	17.010	PASS
BAND4	15MHz	16QAM	20025	75RB#0	13.457	14.760	PASS
BAND4	15MHz	16QAM	20175	75RB#0	13.487	14.700	PASS
BAND4	15MHz	16QAM	20325	75RB#0	13.487	16.410	PASS
BAND4	20MHz	QPSK	20050	100RB#0	17.822	19.360	PASS
BAND4	20MHz	QPSK	20175	100RB#0	17.902	19.520	PASS
BAND4	20MHz	QPSK	20300	100RB#0	17.862	19.440	PASS



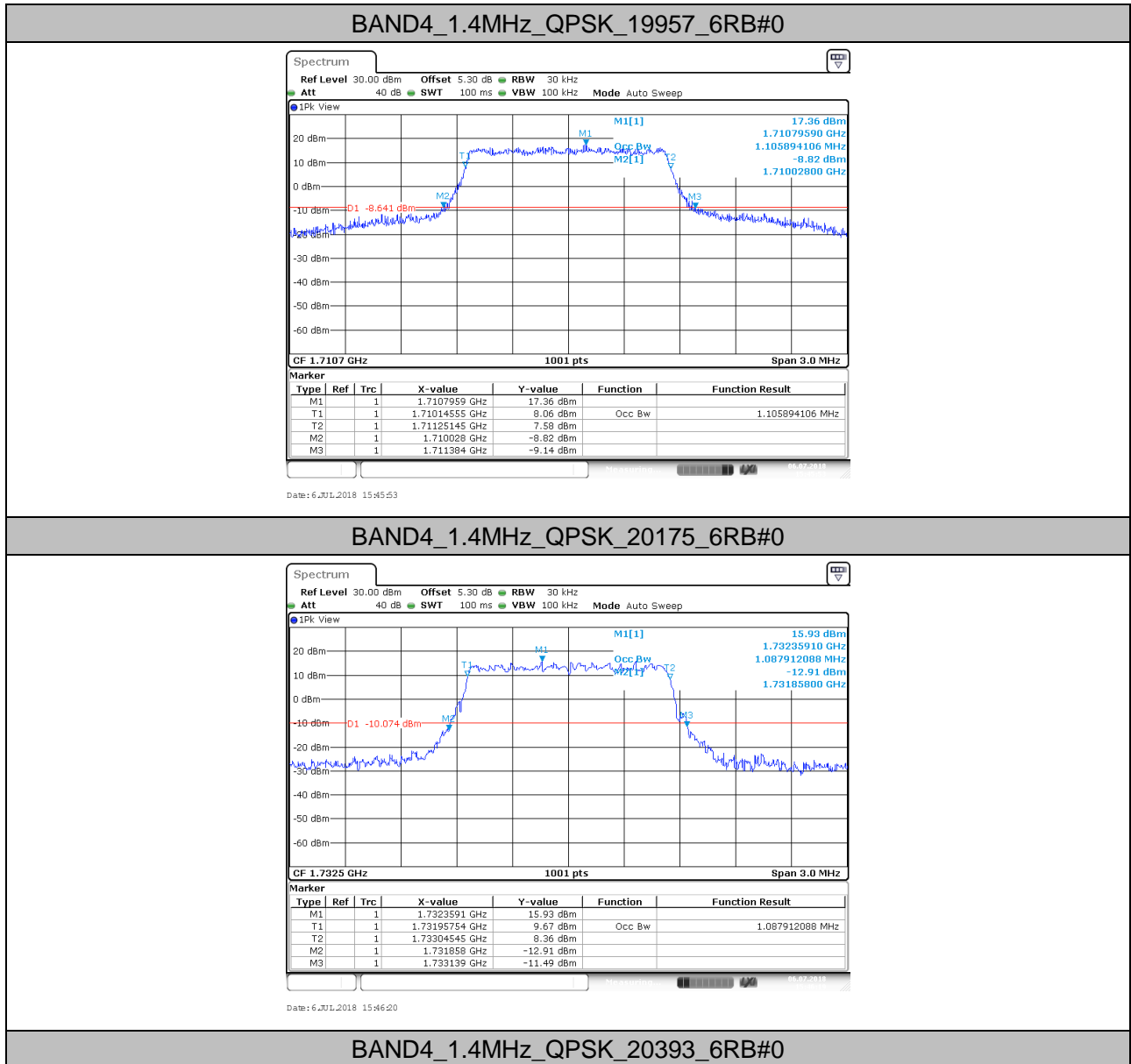
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BAND4	20MHz	16QAM	20050	100RB#0	17.862	19.320	PASS
BAND4	20MHz	16QAM	20175	100RB#0	17.942	19.520	PASS
BAND4	20MHz	16QAM	20300	100RB#0	17.902	20.160	PASS

4.2. Test Plots

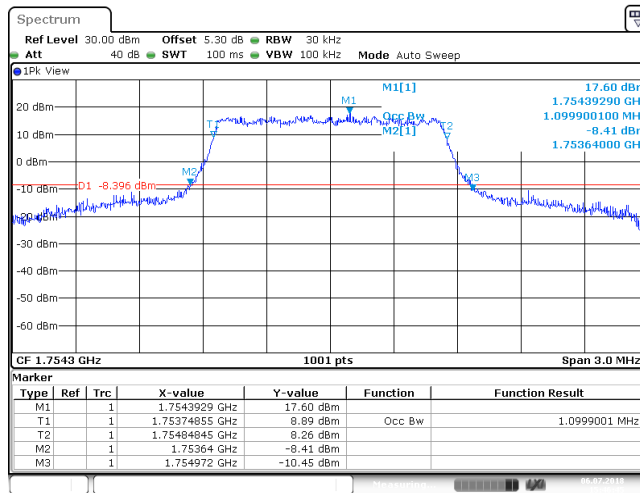




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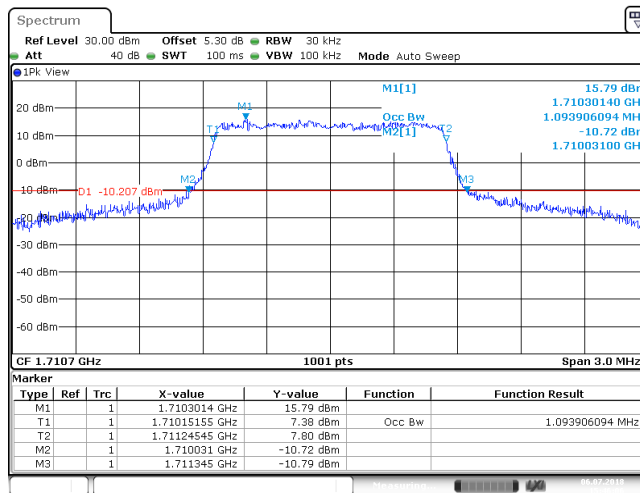
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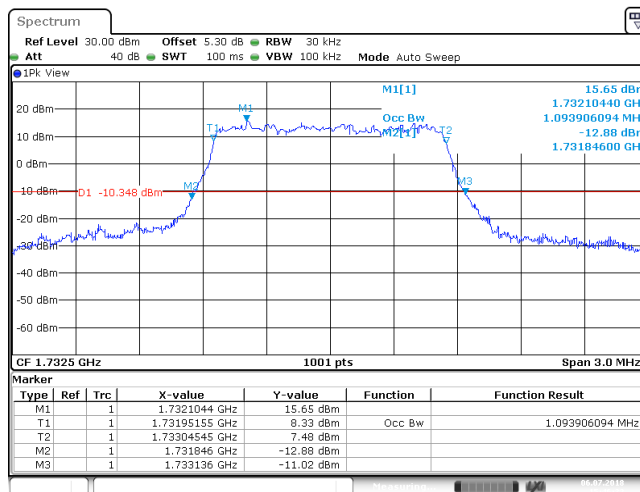
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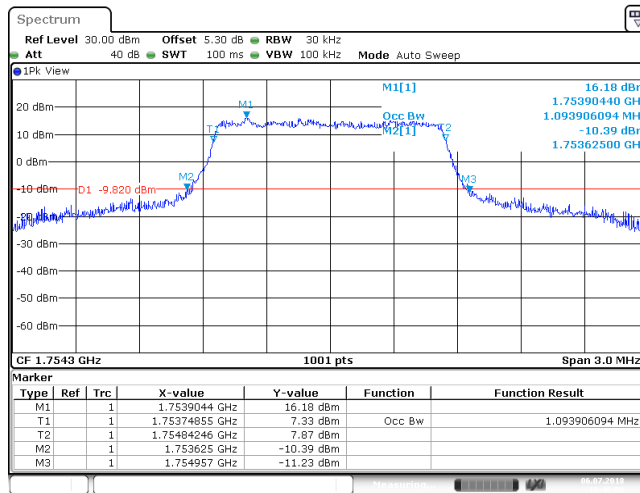
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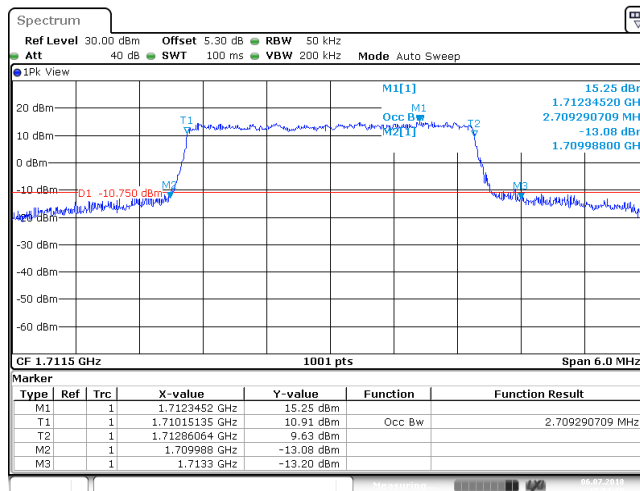
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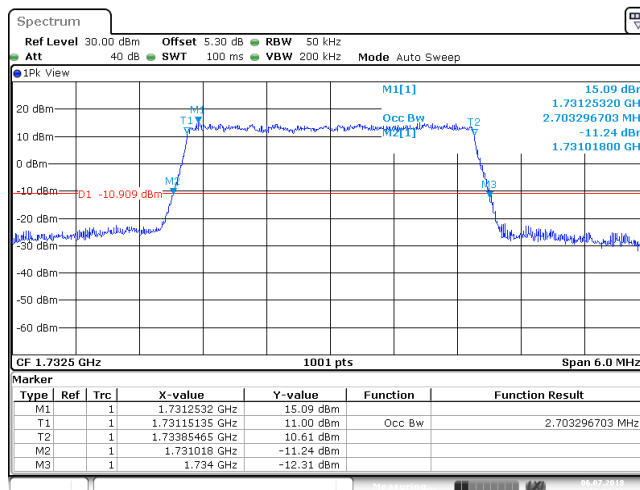
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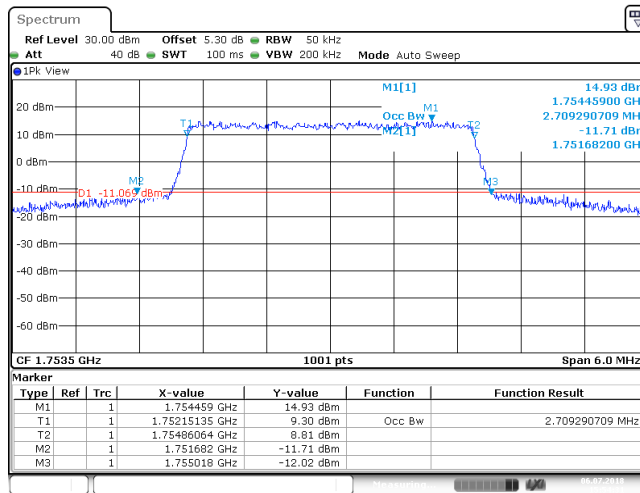
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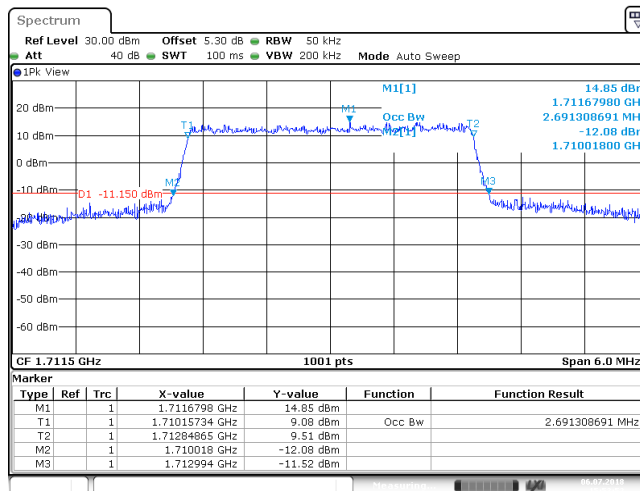
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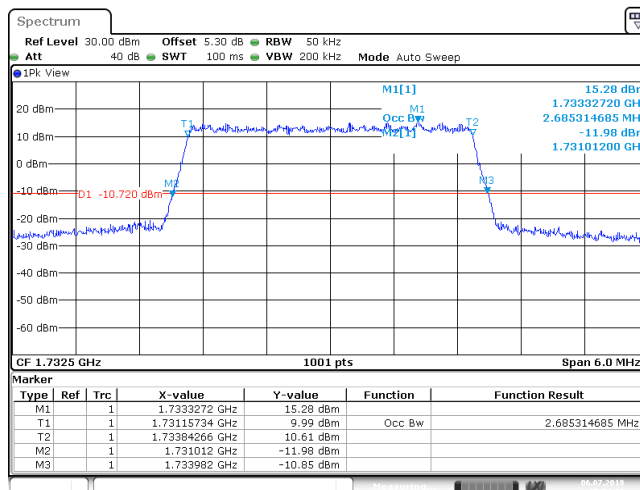
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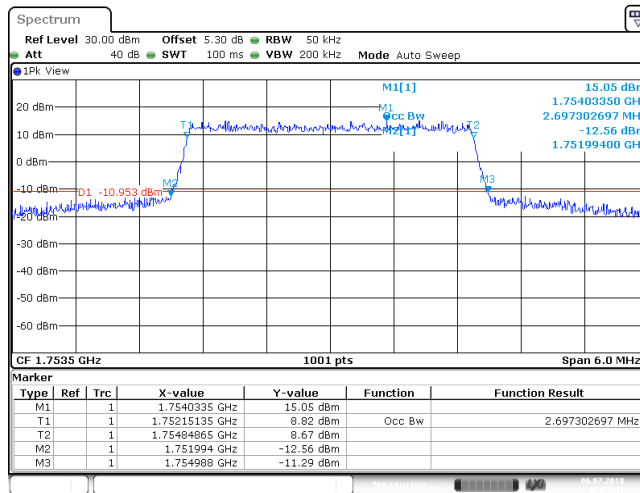
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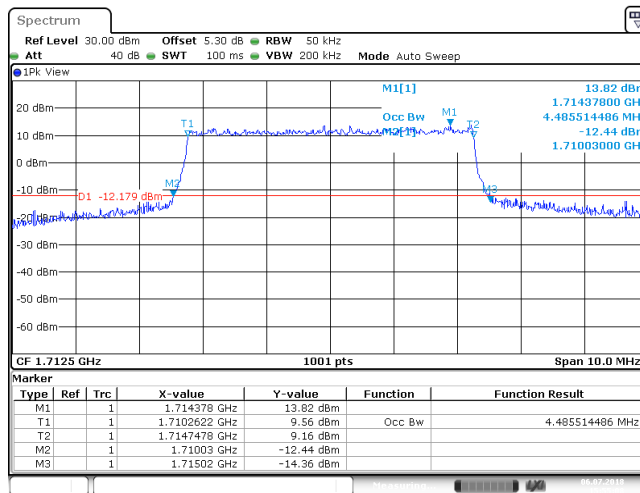
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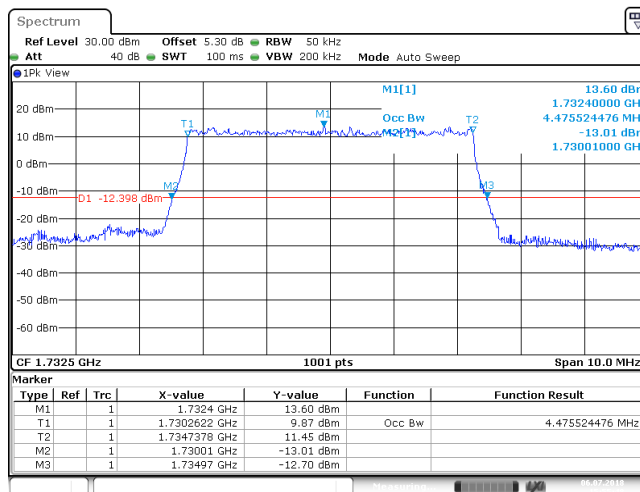
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BAND4_5MHz_QPSK_19975_25RB#0



BAND4_5MHz_QPSK_20175_25RB#0



BAND4_5MHz_QPSK_20375_25RB#0

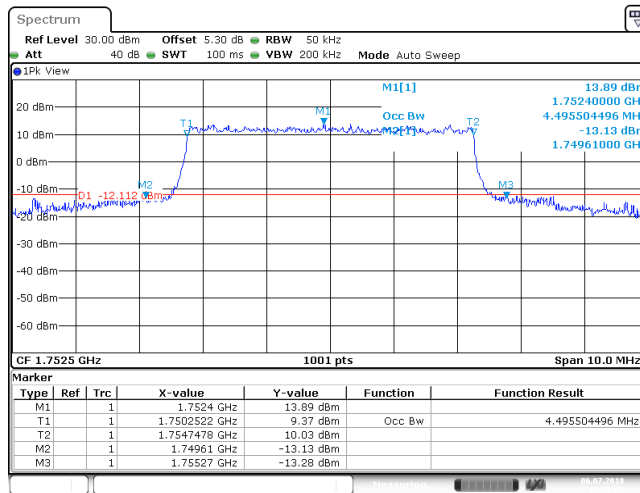
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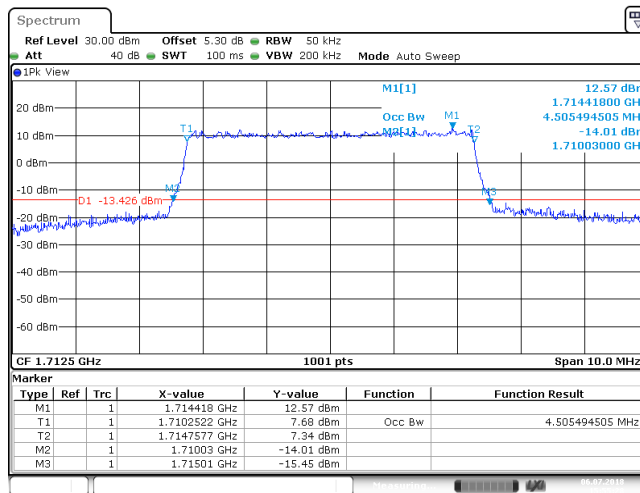
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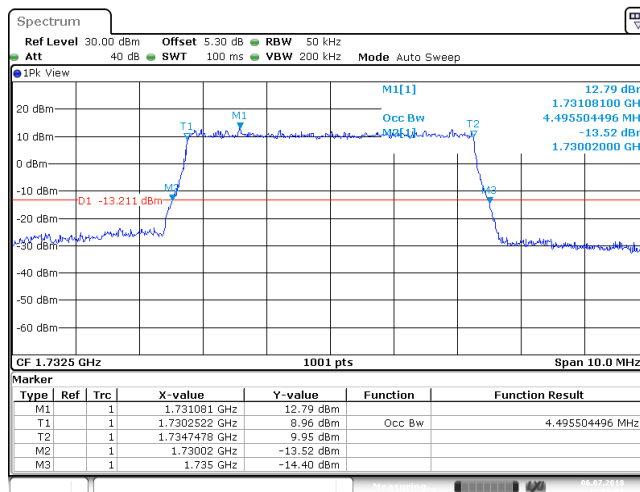
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BAND4_5MHz_16QAM_20175_25RB#0



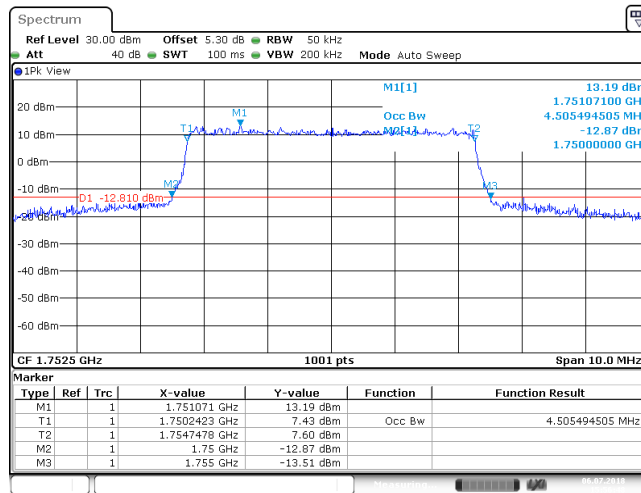
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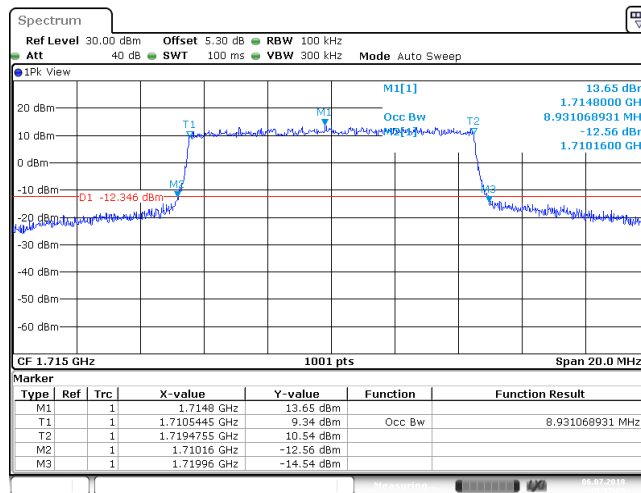
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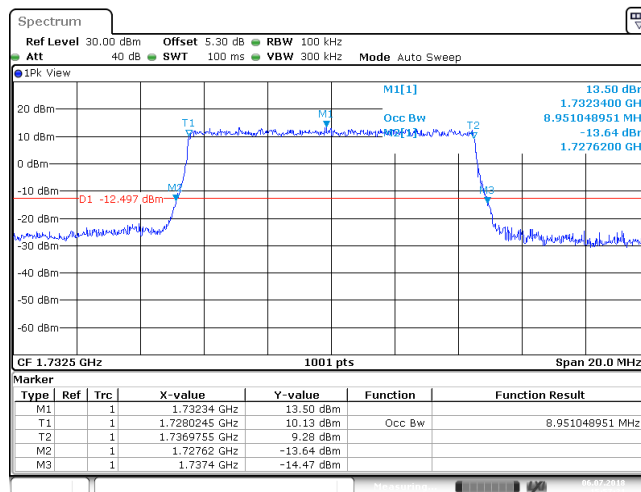
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BAND4_10MHz_QPSK_20175_50RB#0



BAND4_10MHz_QPSK_20350_50RB#0

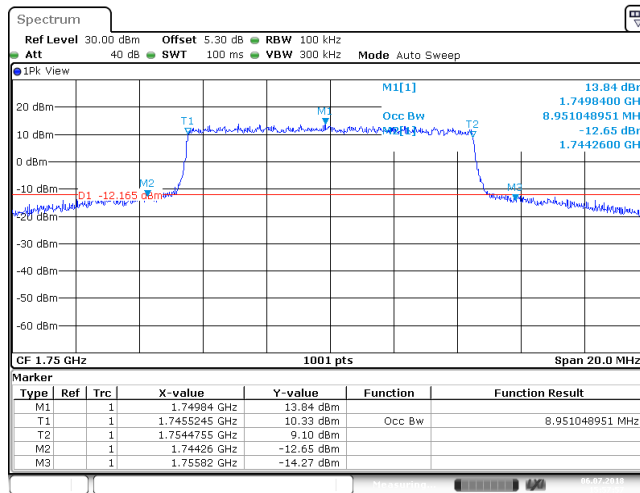
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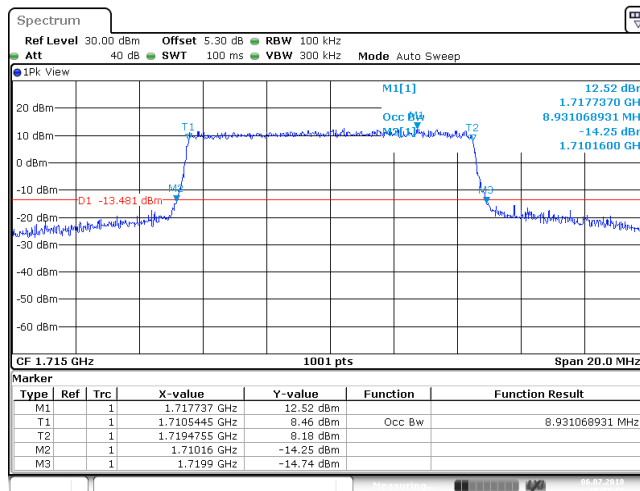
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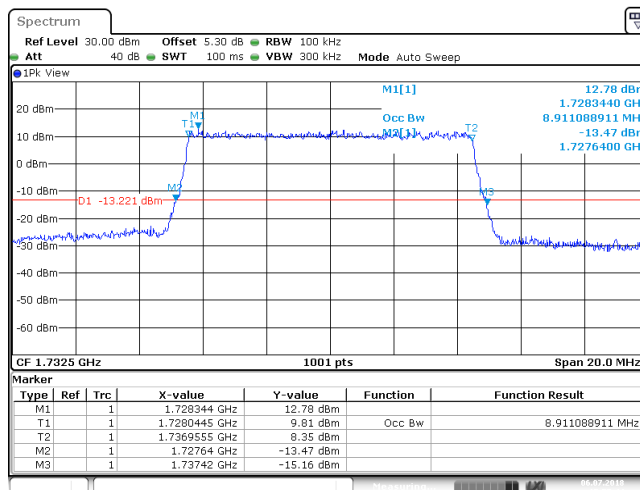
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Date: 6 JUL 2018 15:57:44

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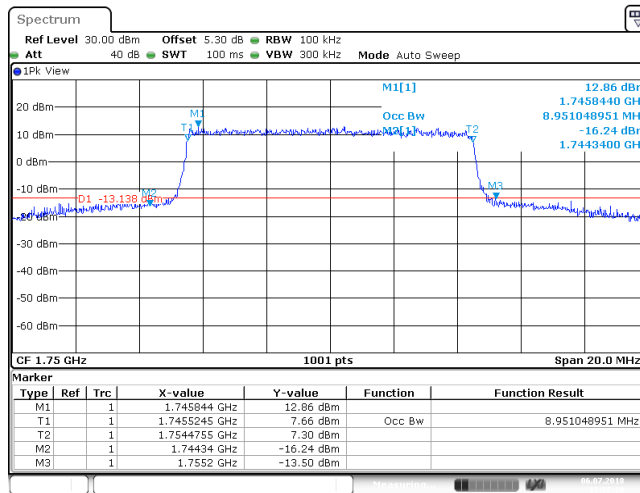
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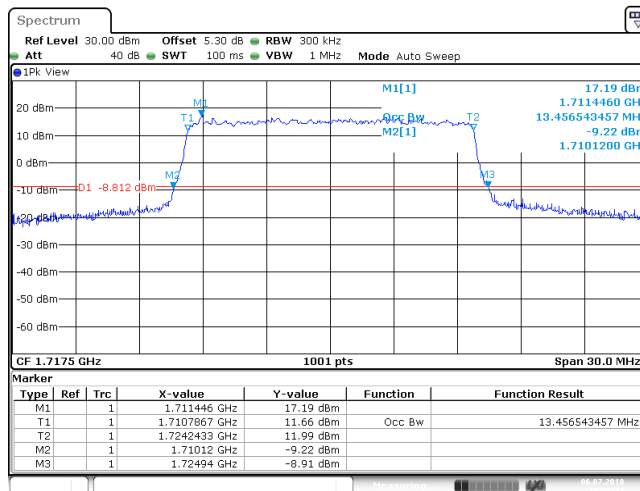
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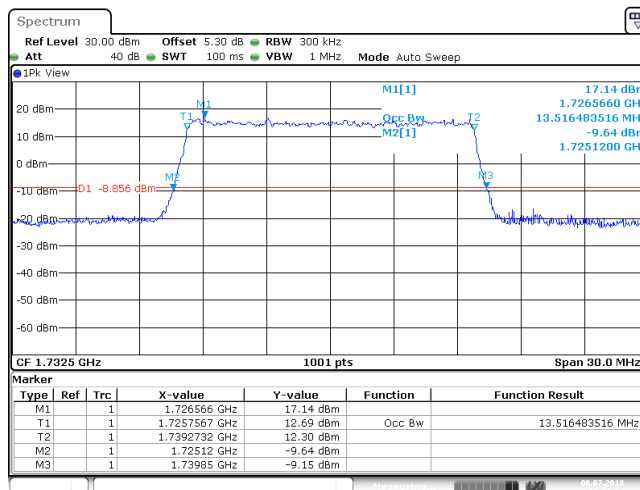
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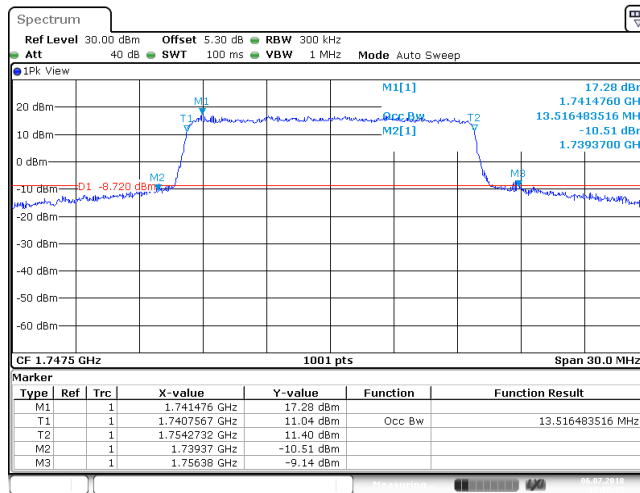
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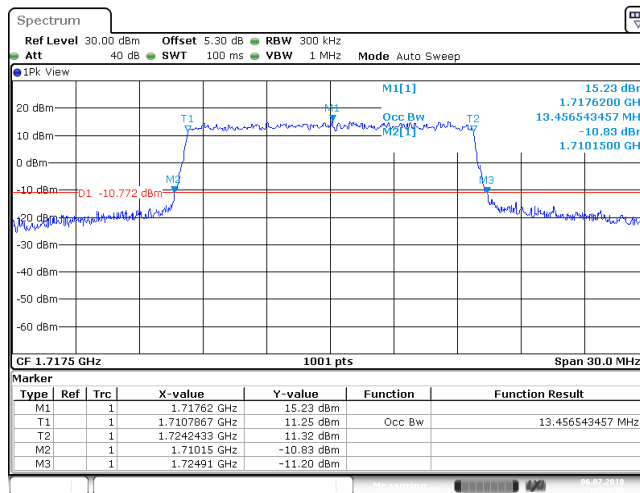
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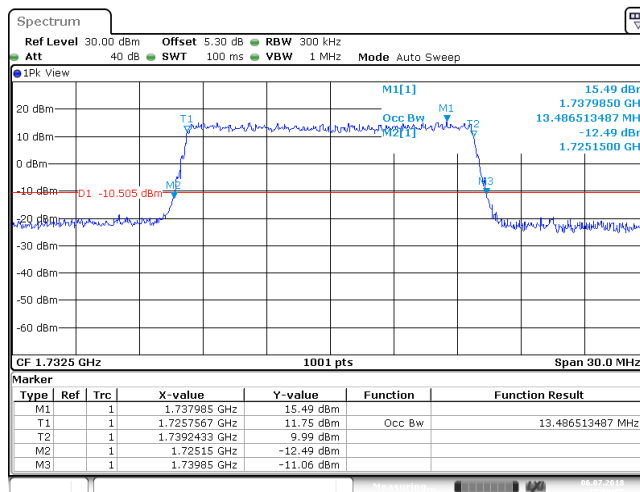
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BAND4_15MHz_16QAM_20025_75RB#0



BAND4_15MHz_16QAM_20175_75RB#0



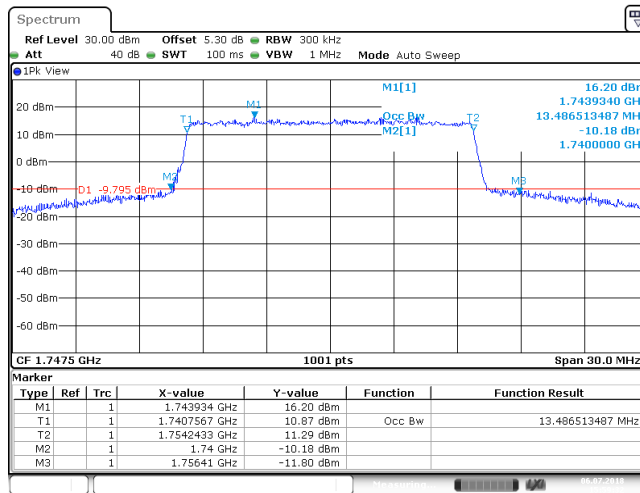
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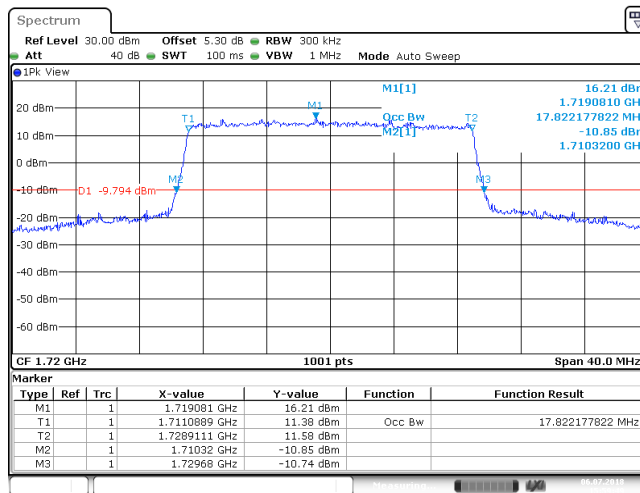
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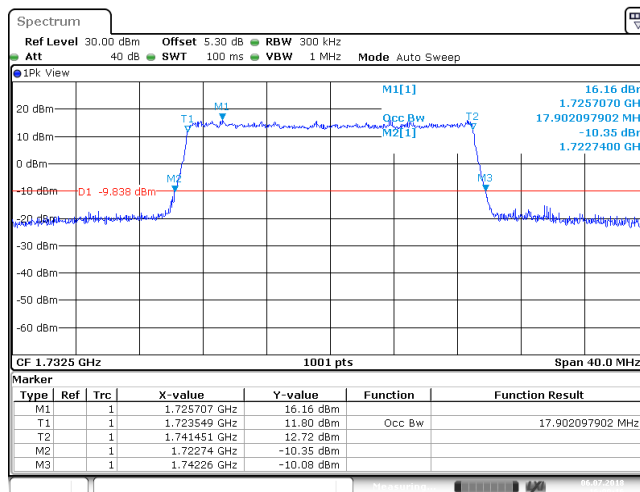
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BAND4_20MHz_QPSK_20050_100RB#0



BAND4_20MHz_QPSK_20175_100RB#0



BAND4_20MHz_QPSK_20300_100RB#0

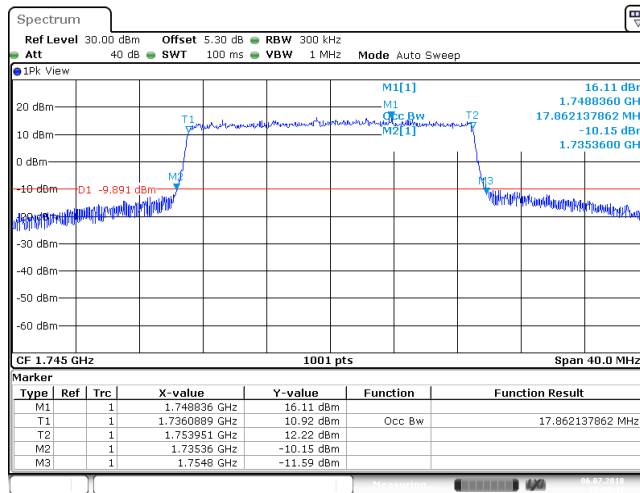
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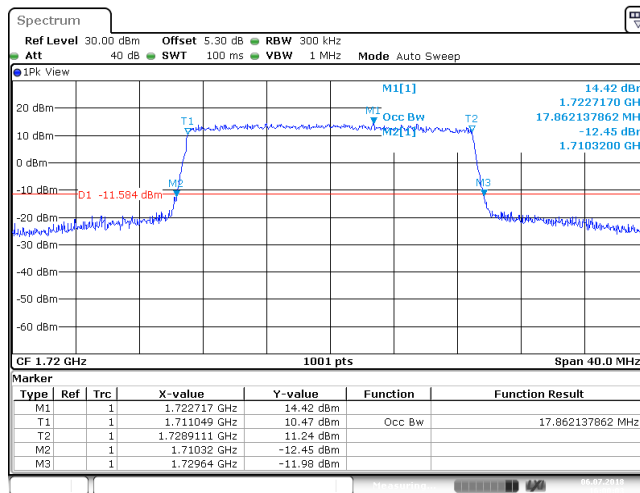
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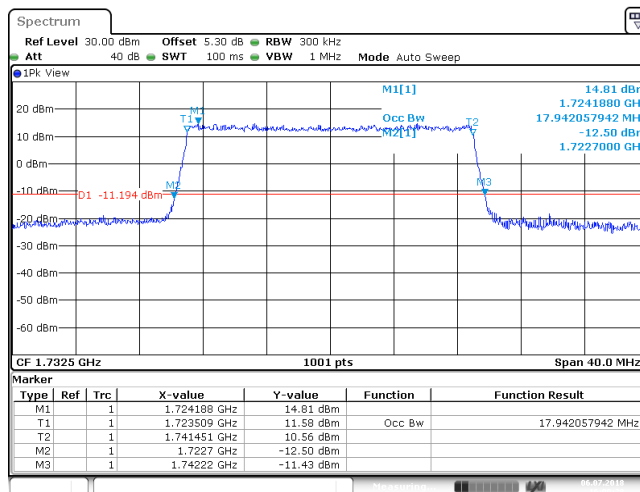
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BAND4_20MHz_16QAM_20050_100RB#0



BAND4_20MHz_16QAM_20175_100RB#0



BAND4_20MHz_16QAM_20300_100RB#0

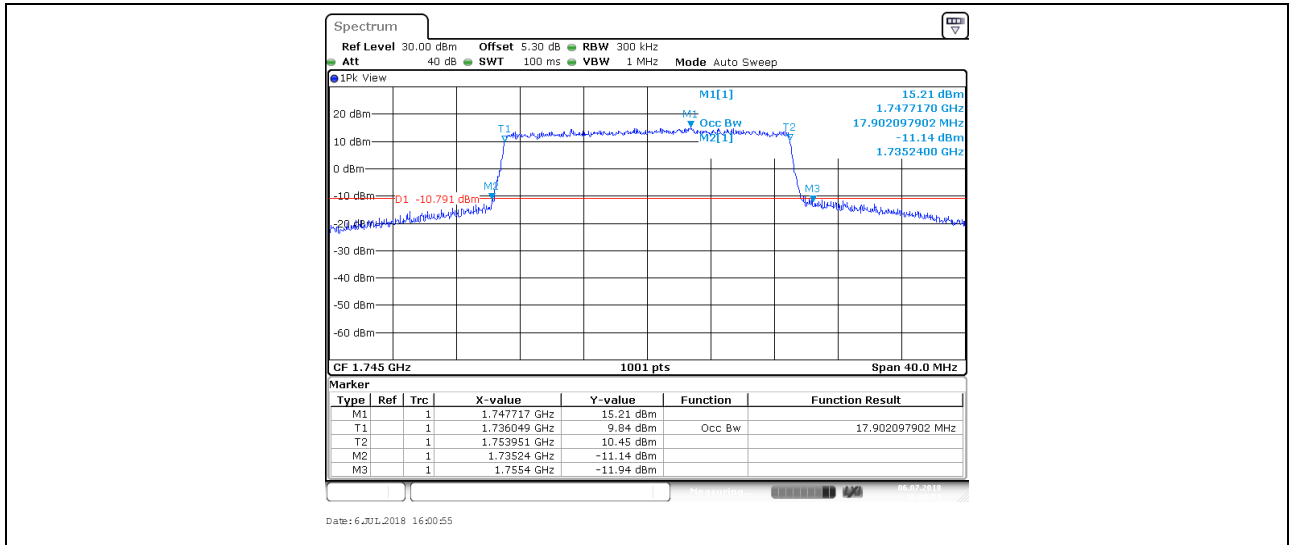
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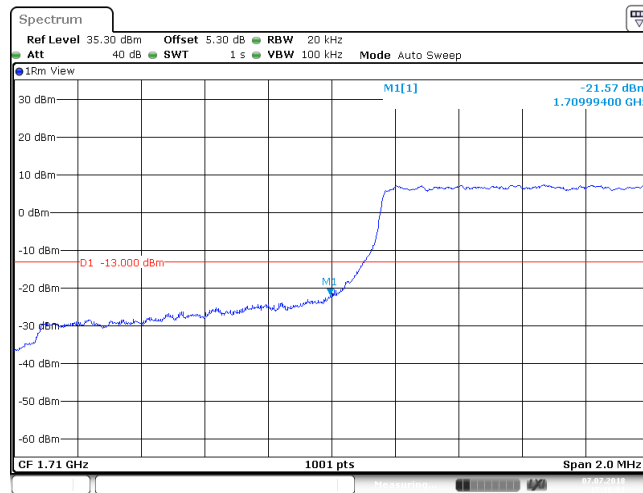




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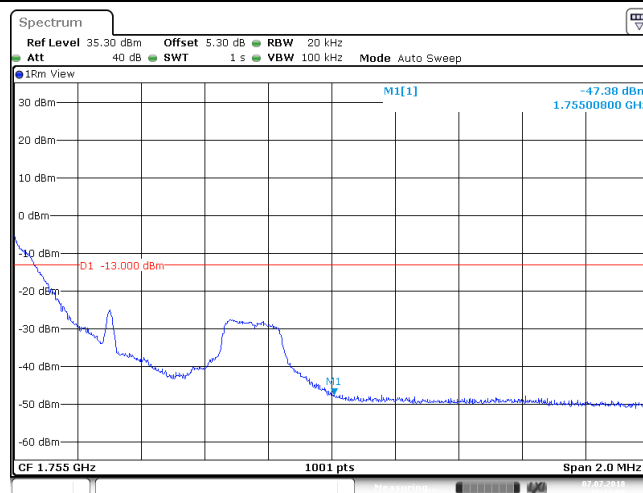
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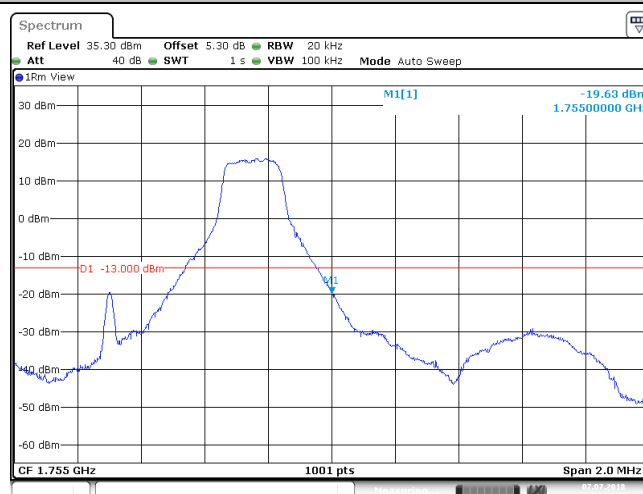
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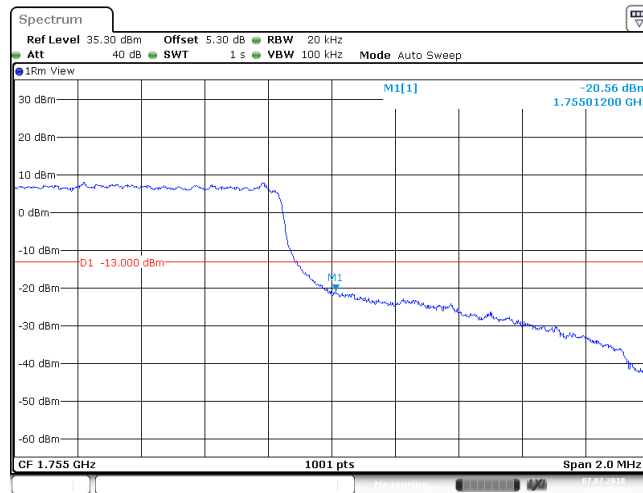
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Shenzhen Branch

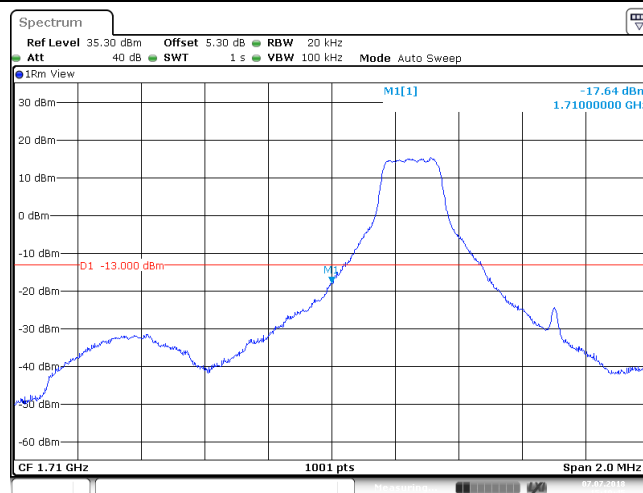
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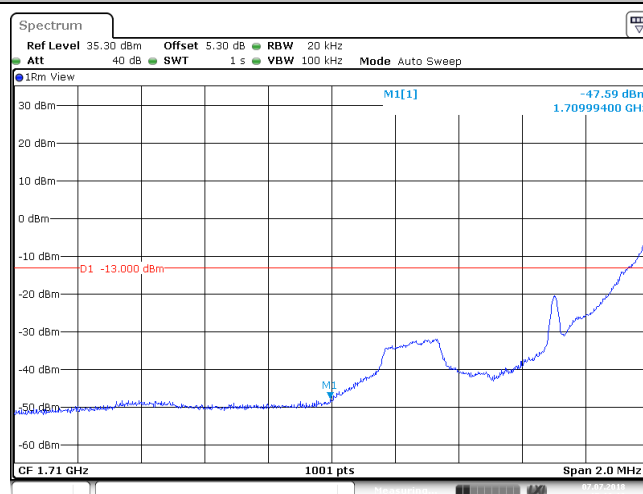
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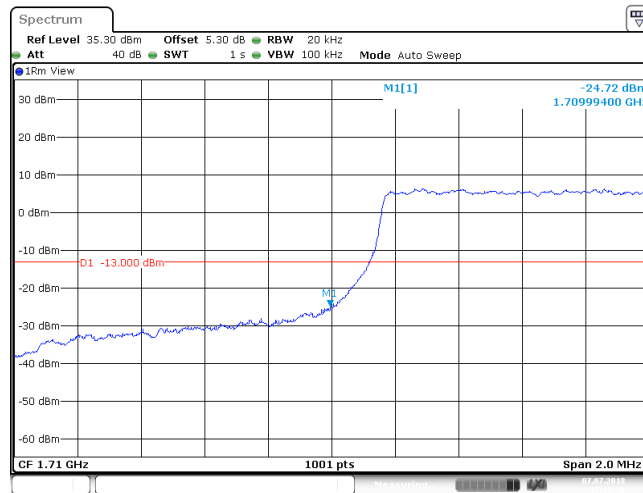
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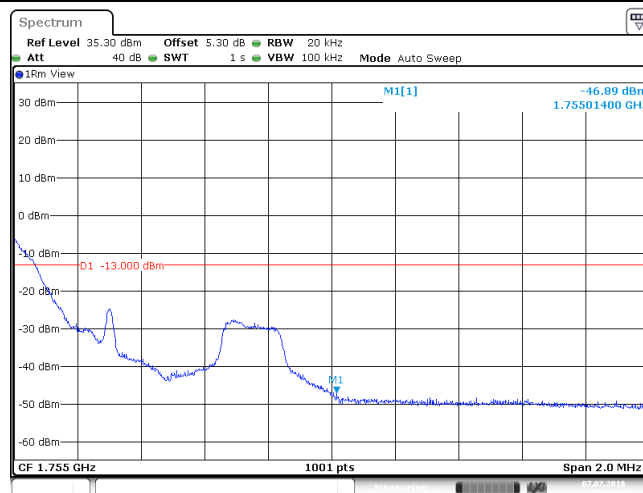
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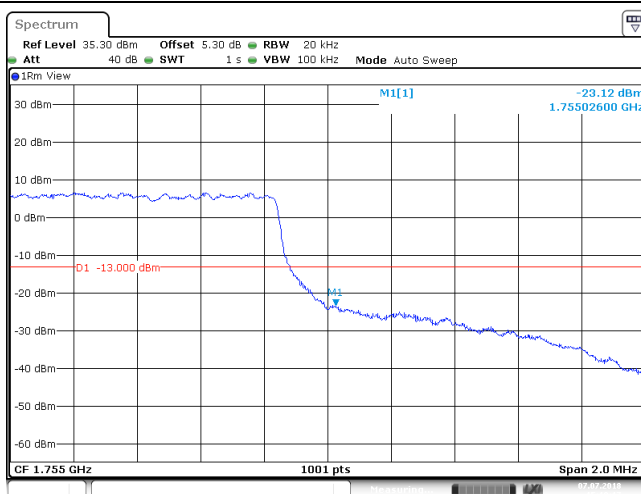
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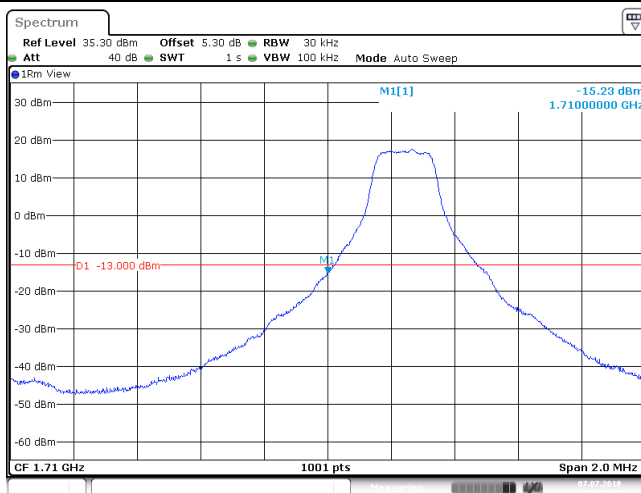
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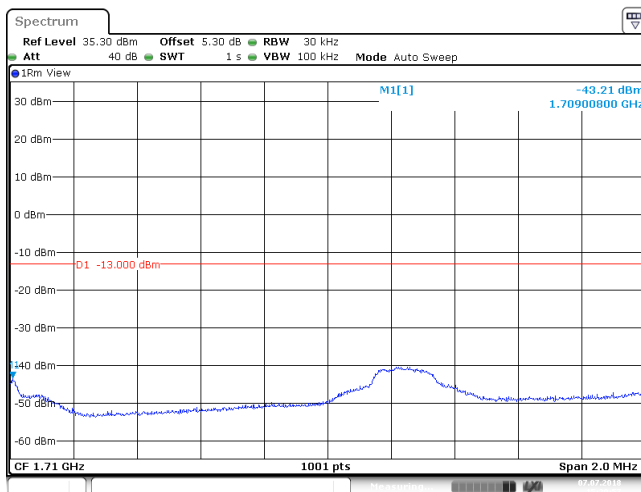
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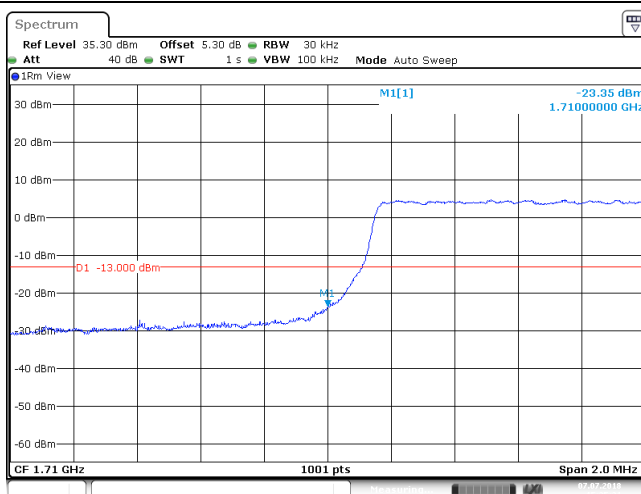
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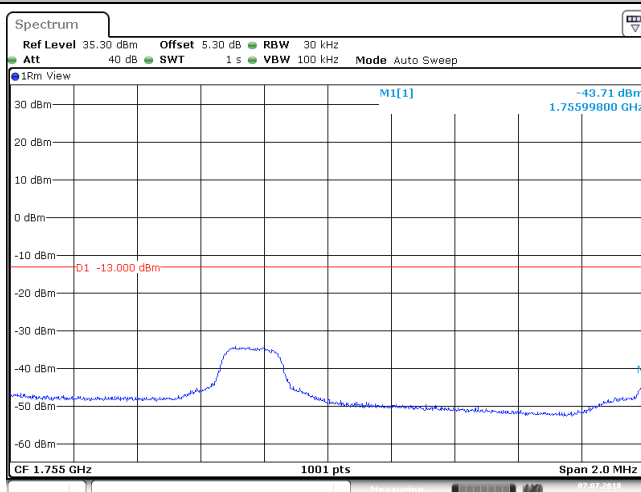
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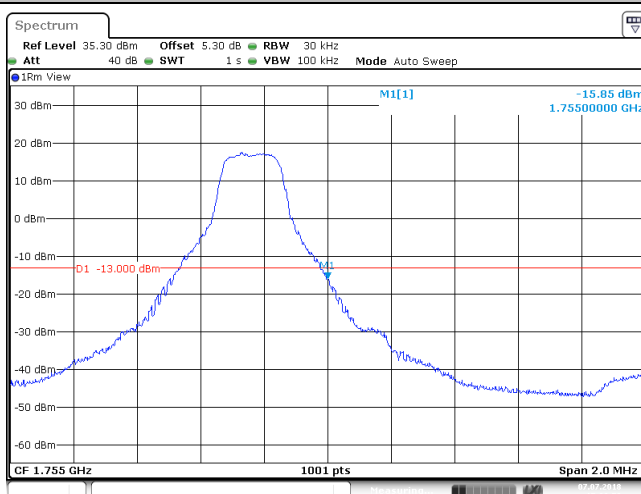
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BAND4_3MHz_QPSK_20385_1RB#0



BAND4_3MHz_QPSK_20385_1RB#14



BAND4_3MHz_QPSK_20385_15RB#0

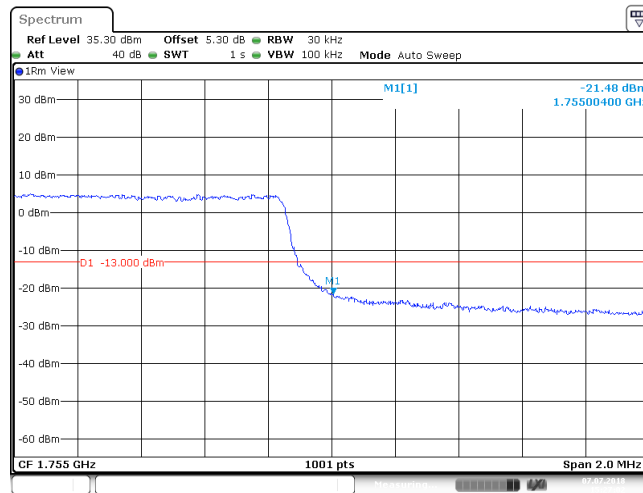
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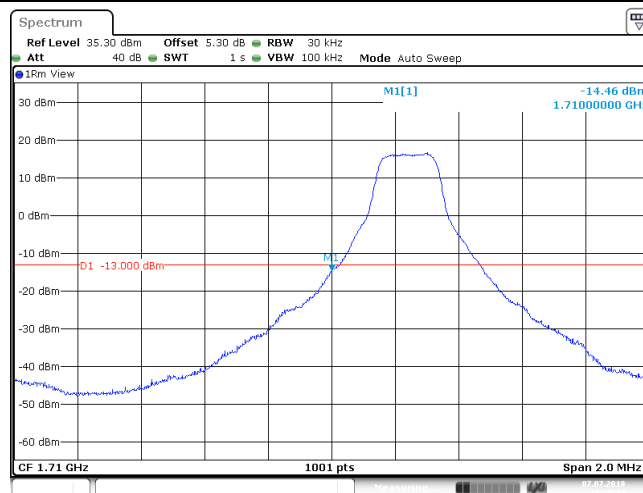
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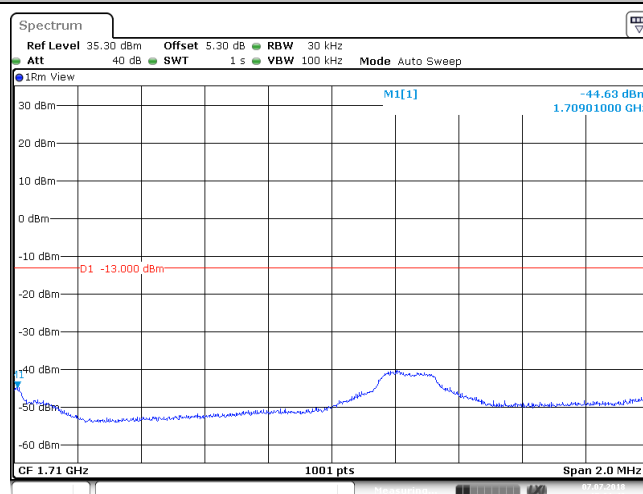
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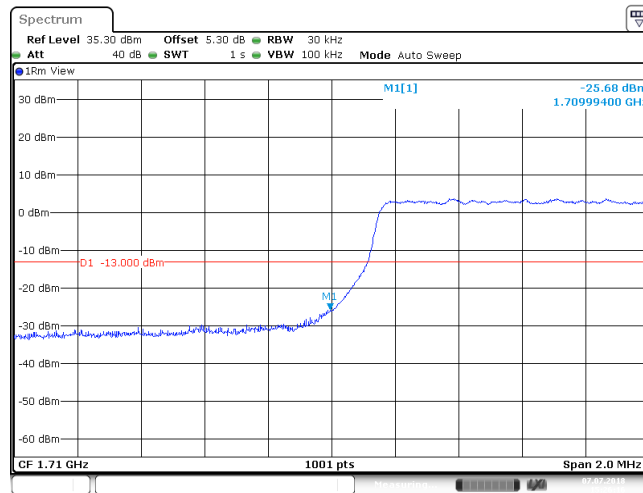
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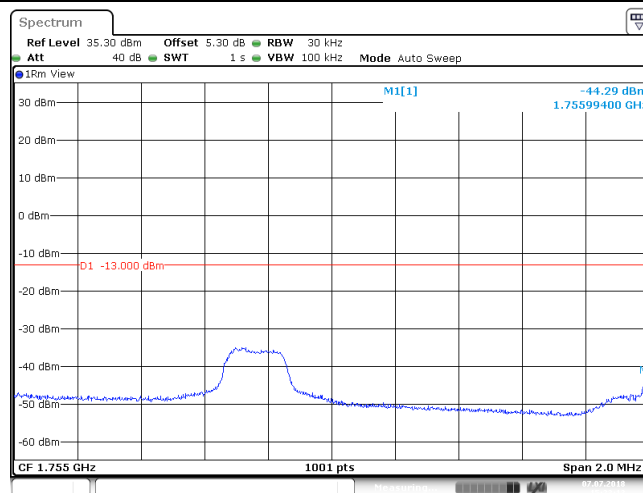
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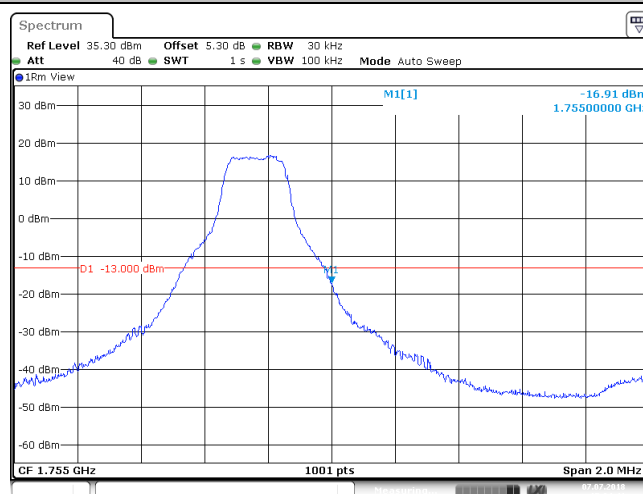
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BAND4_3MHz_16QAM_20385_1RB#14



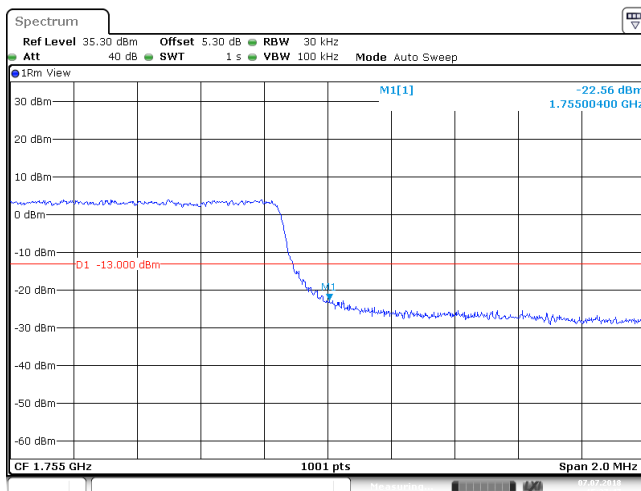
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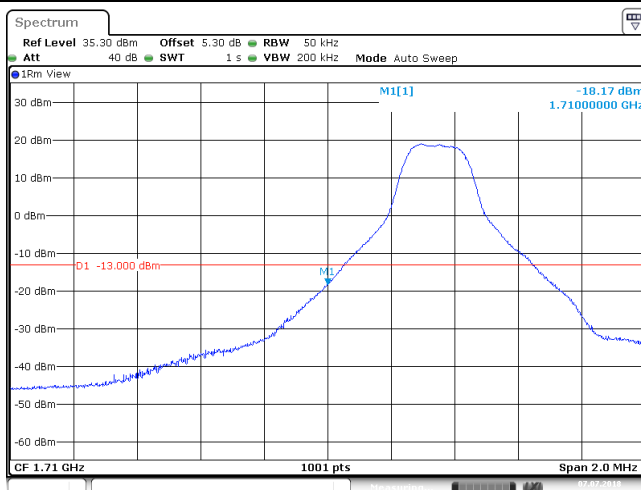
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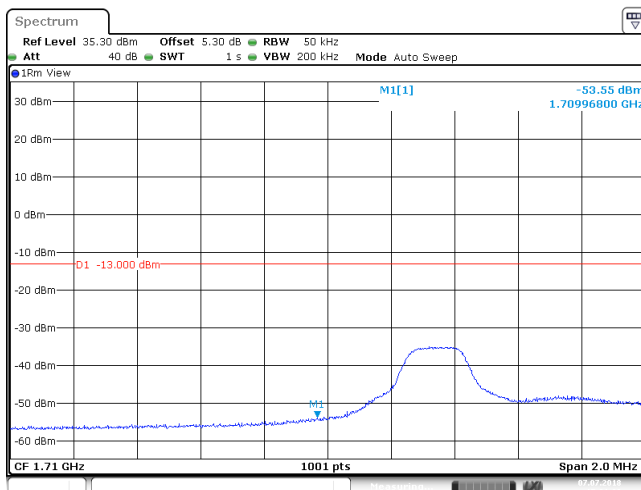
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BAND4_5MHz_QPSK_19975_1RB#0



BAND4_5MHz_QPSK_19975_1RB#24



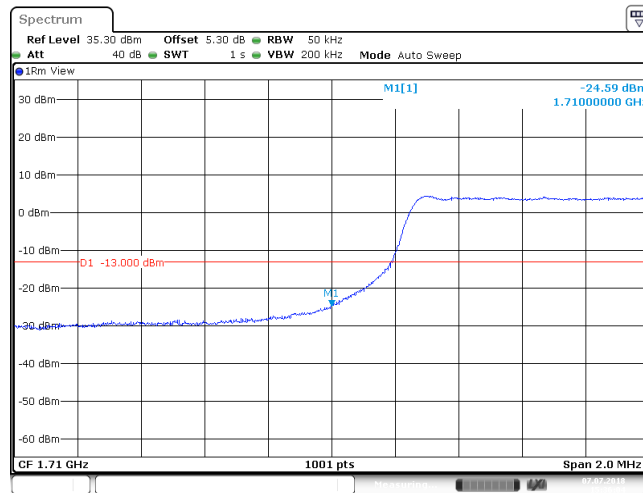
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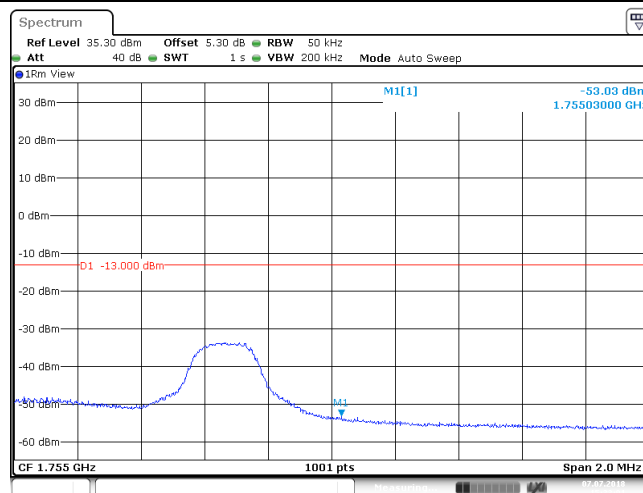
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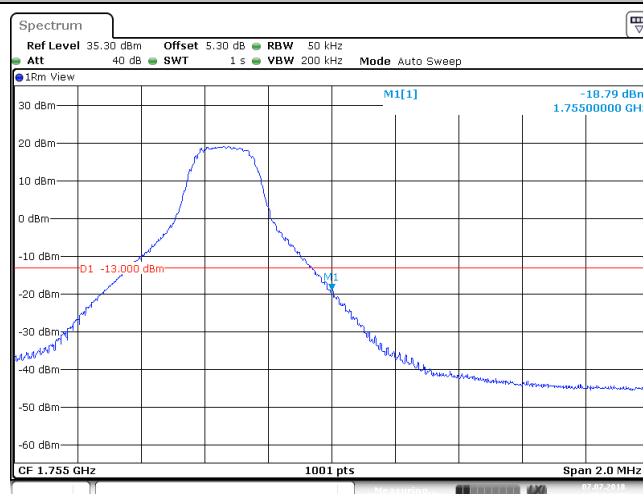
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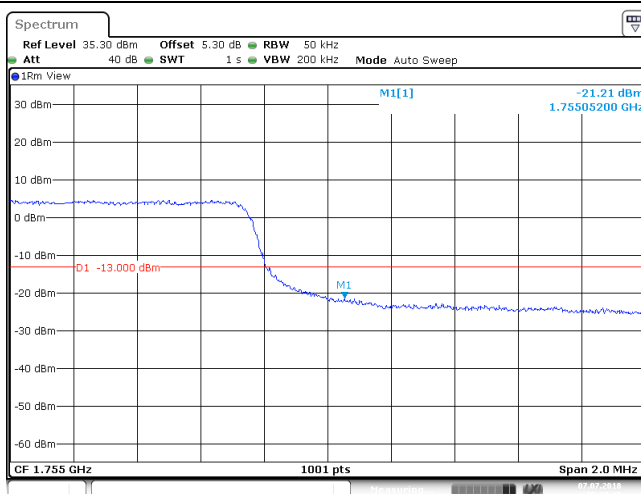
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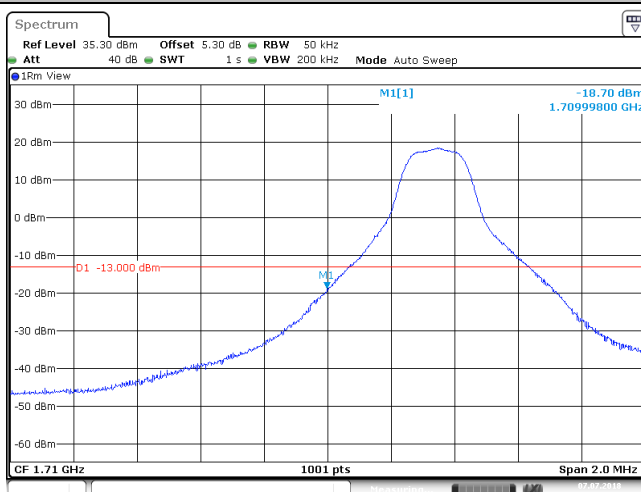
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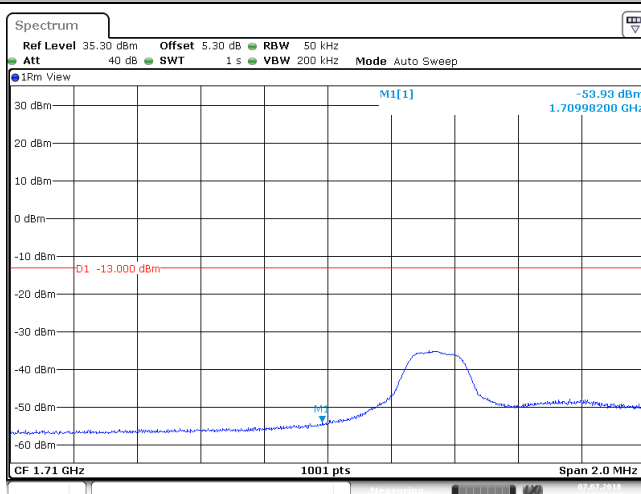
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BAND4_5MHz_16QAM_19975_1RB#24



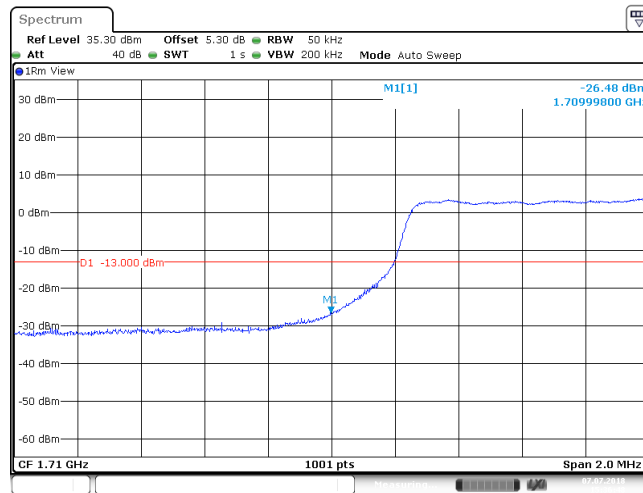
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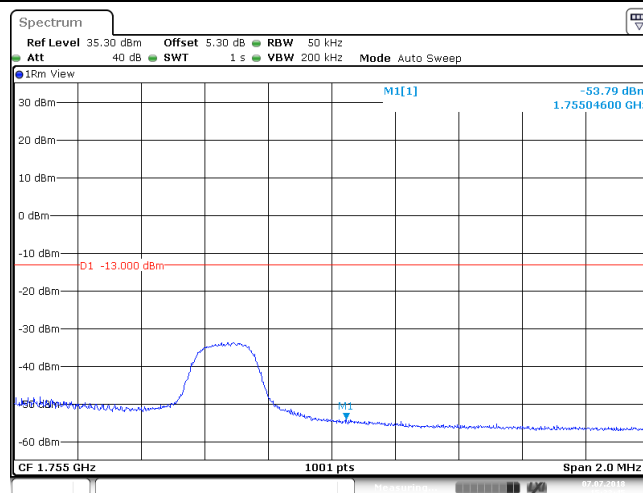
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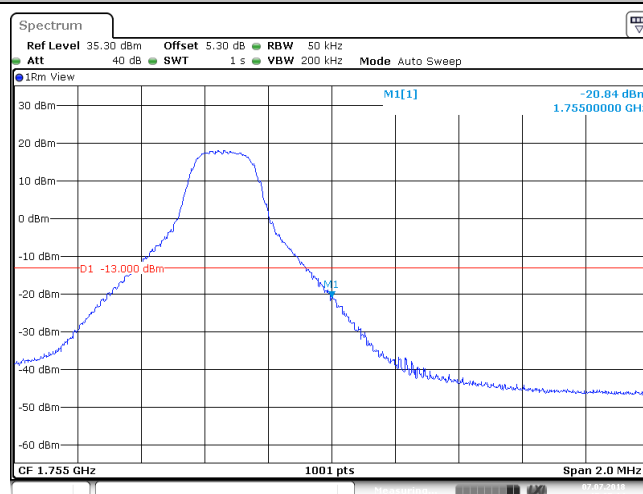
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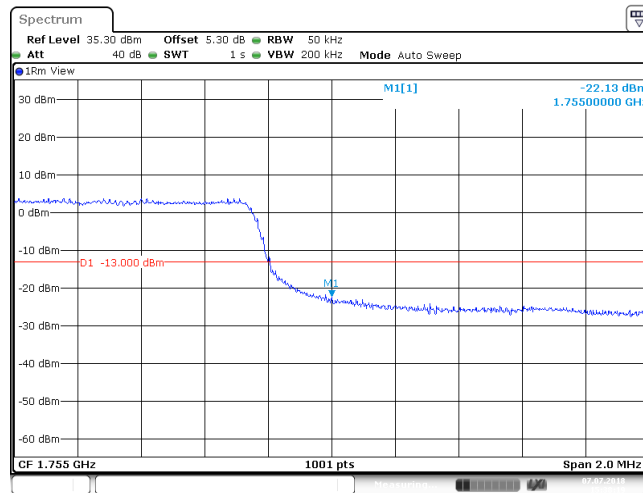
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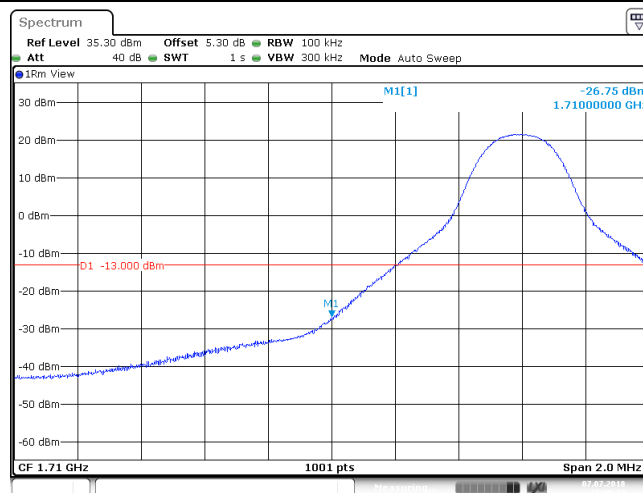
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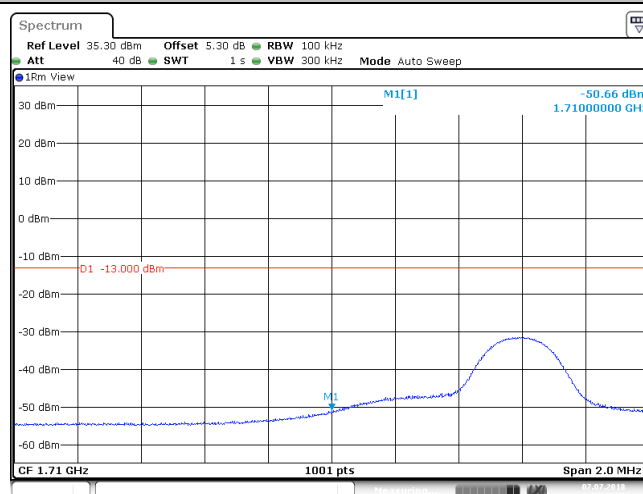
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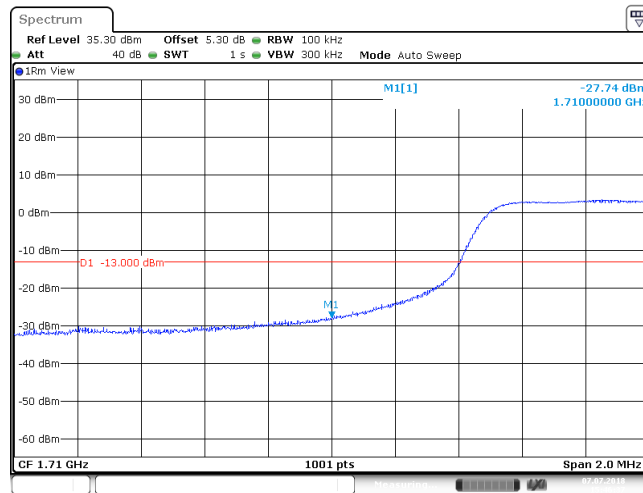
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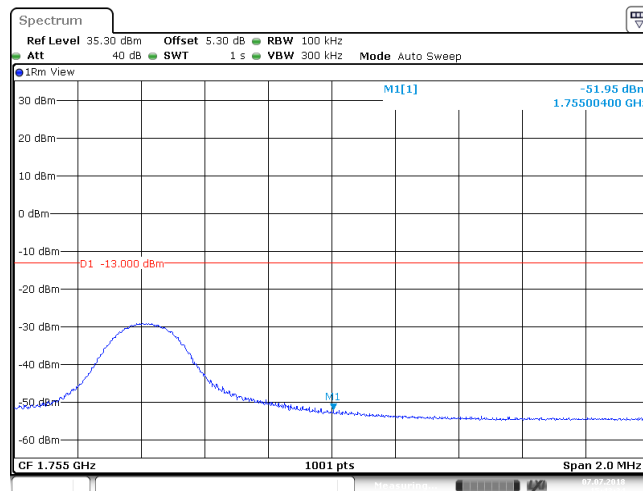
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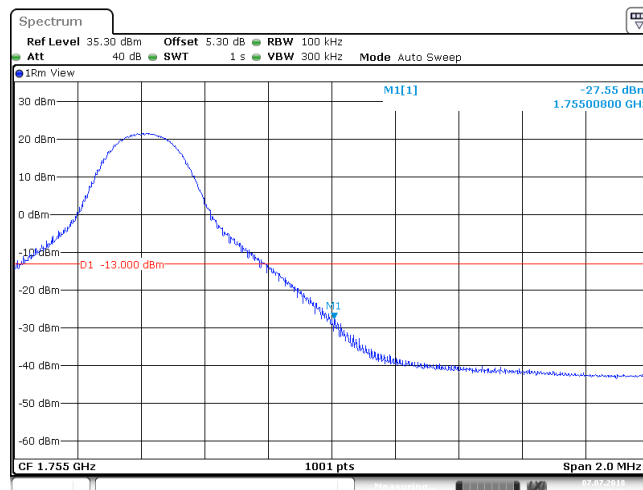
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Date: 7 JUL 2018 15:43:44

BAND4_10MHz_QPSK_20350_1RB#49



Date: 7 JUL 2018 15:45:03

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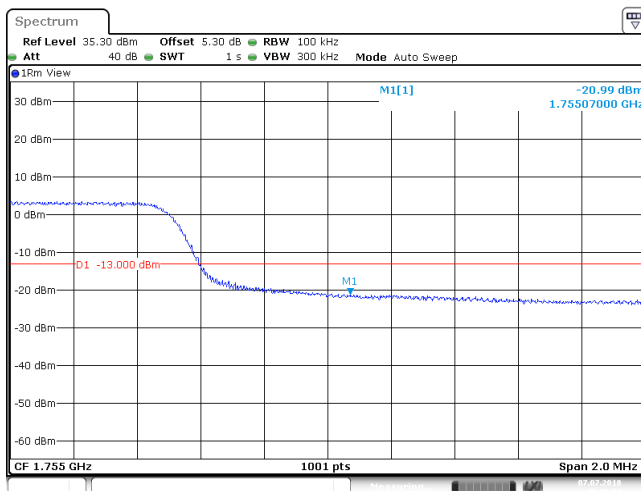
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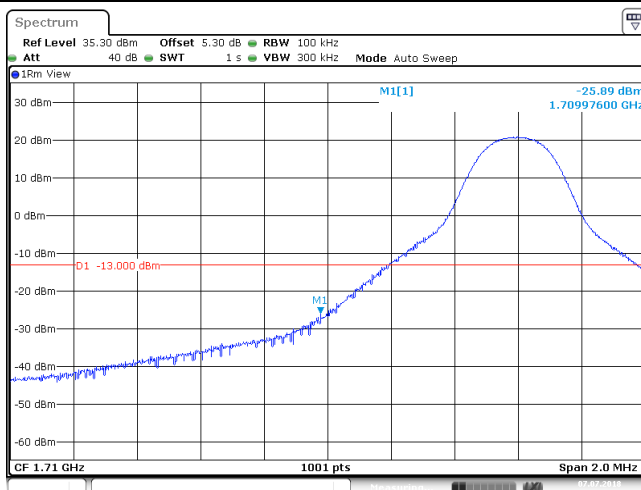
Report No.: SZEM180600485001

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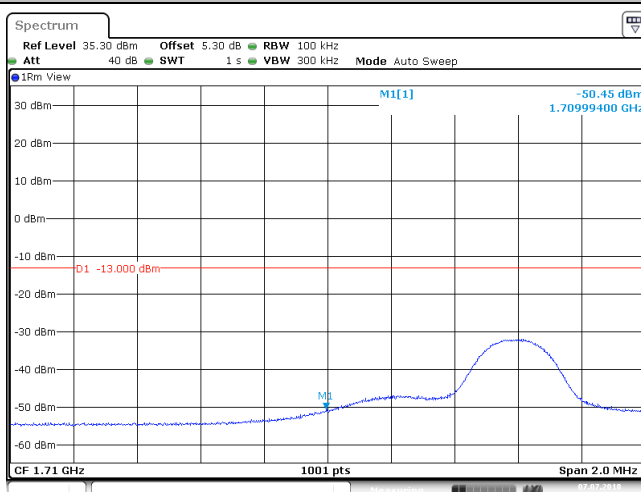
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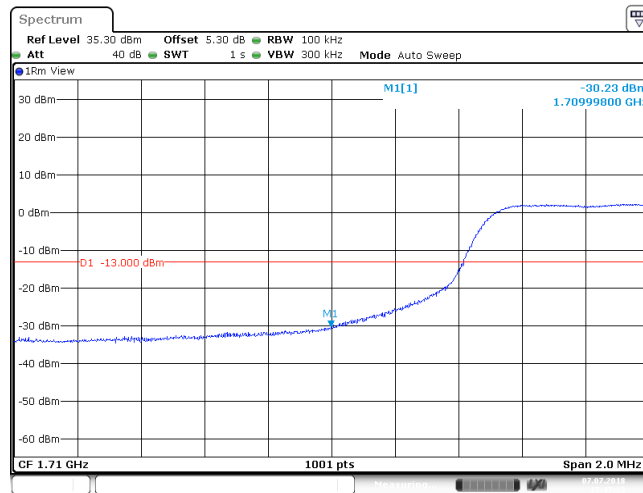
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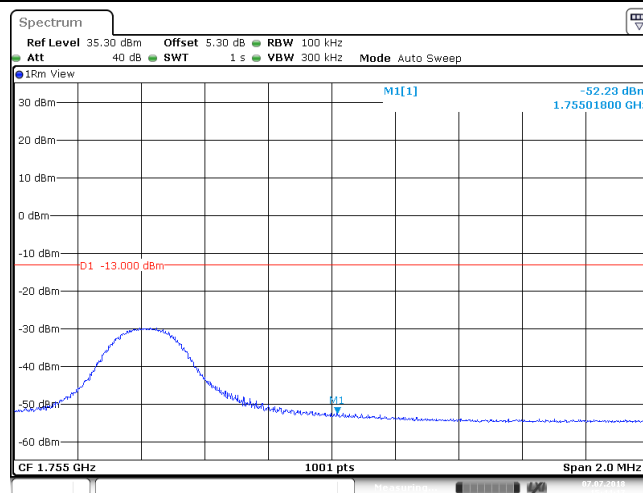
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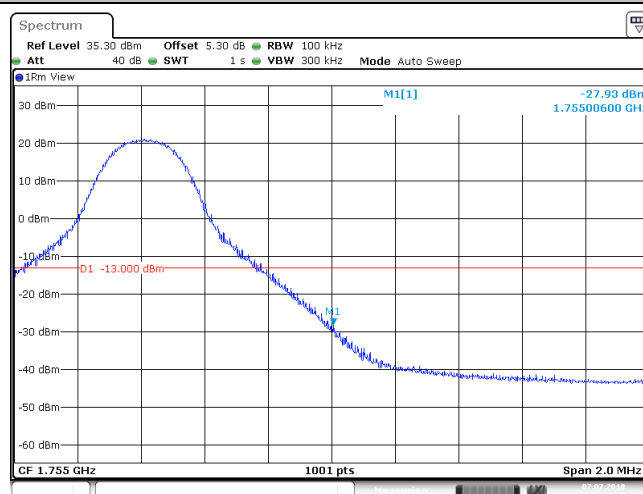
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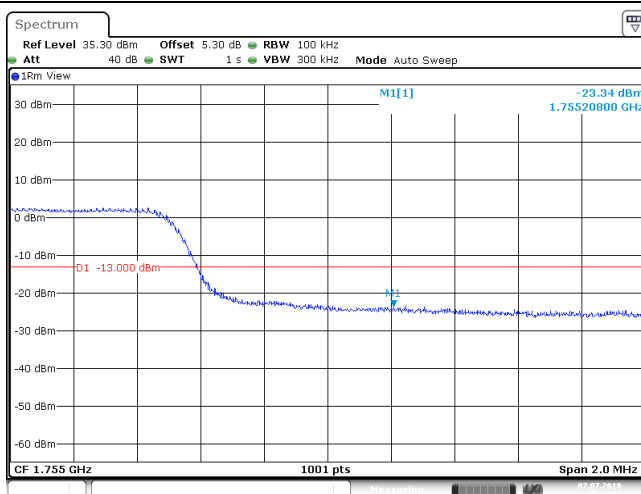
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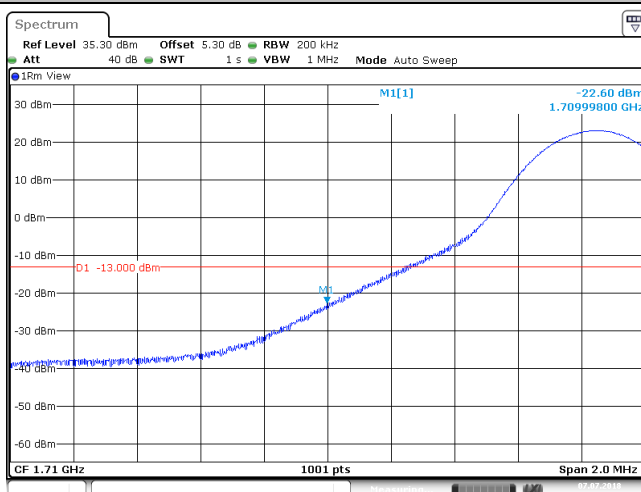
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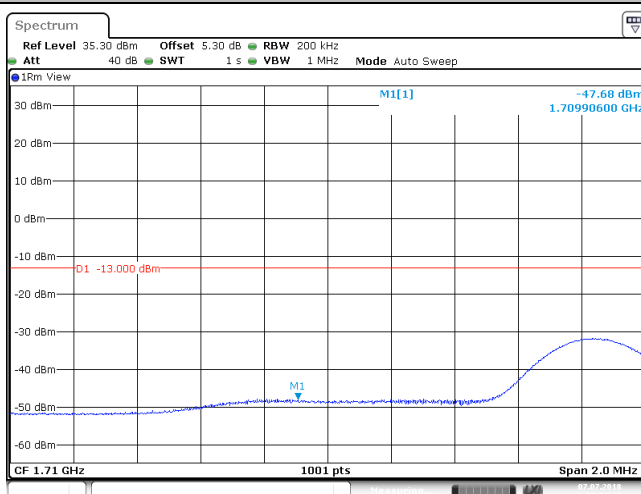
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Date: 7 JUL 2018 15:52:41

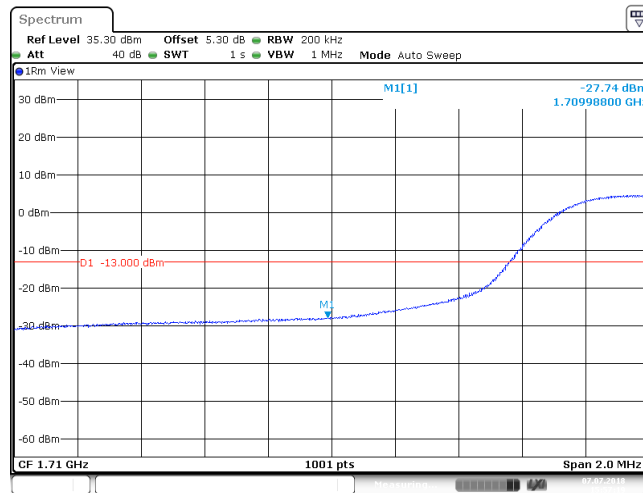
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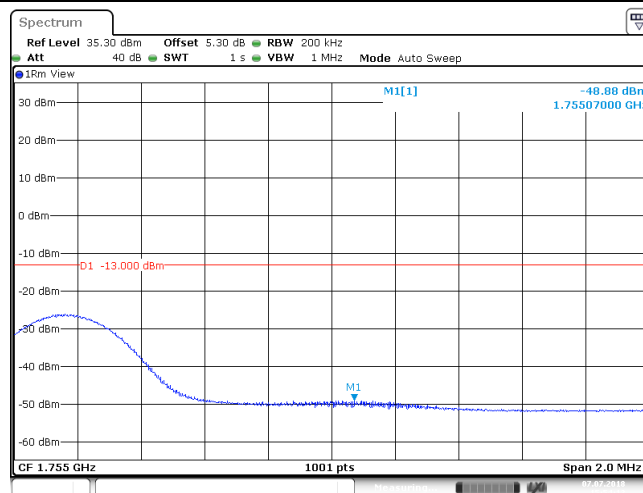
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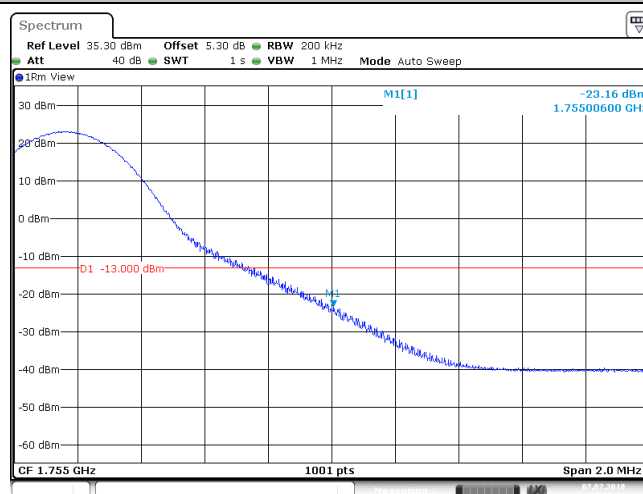
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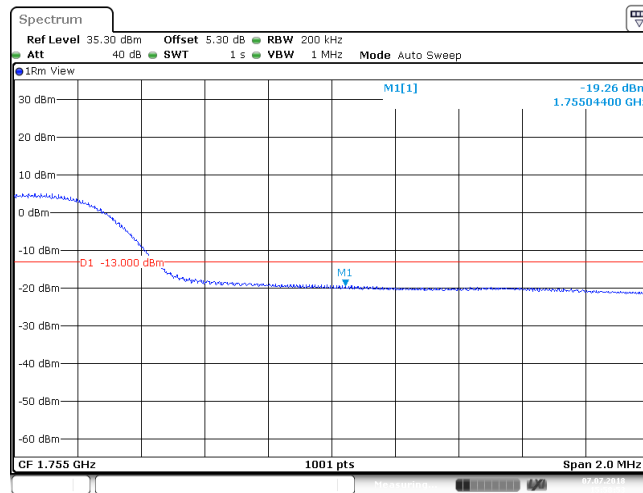
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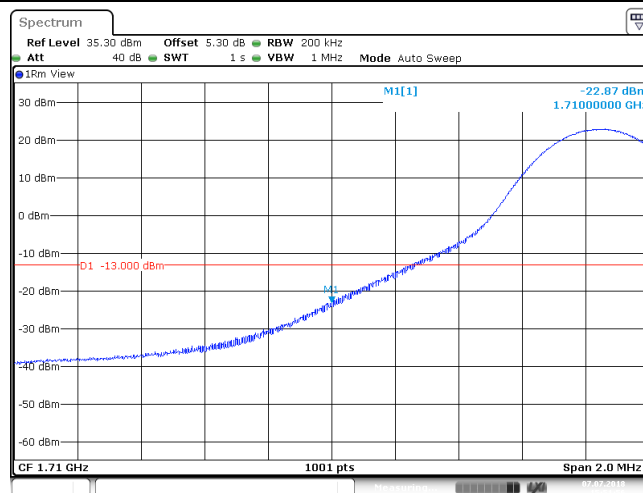
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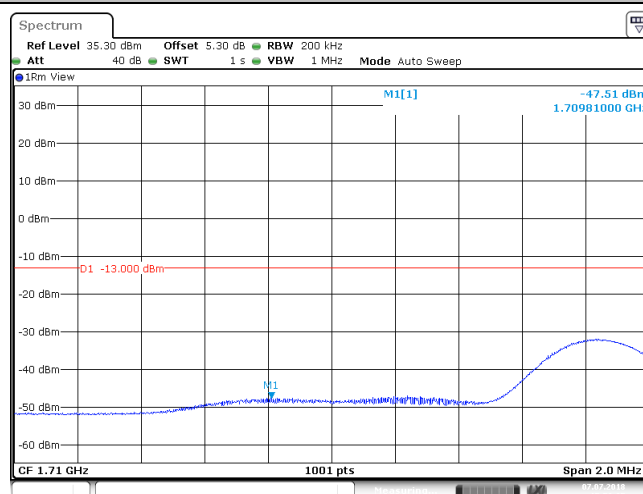
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Date: 7 JUL 2018 15:53:26

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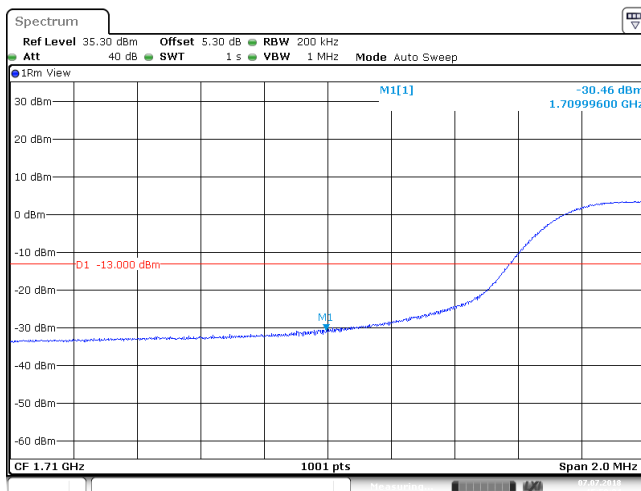
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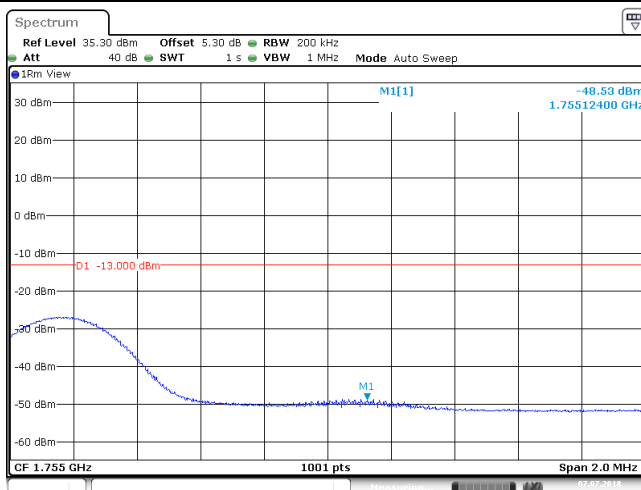
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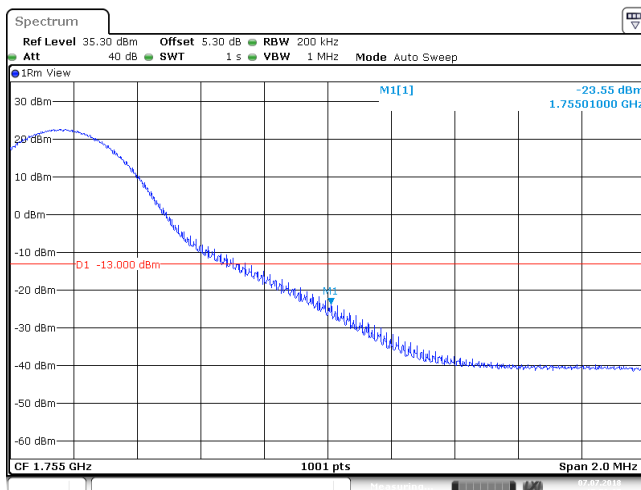
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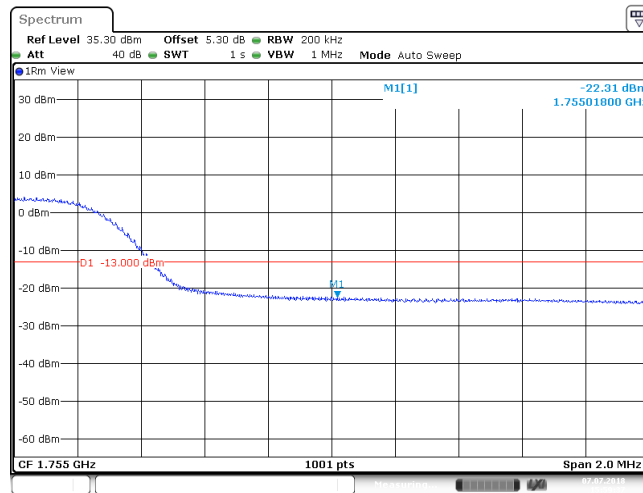
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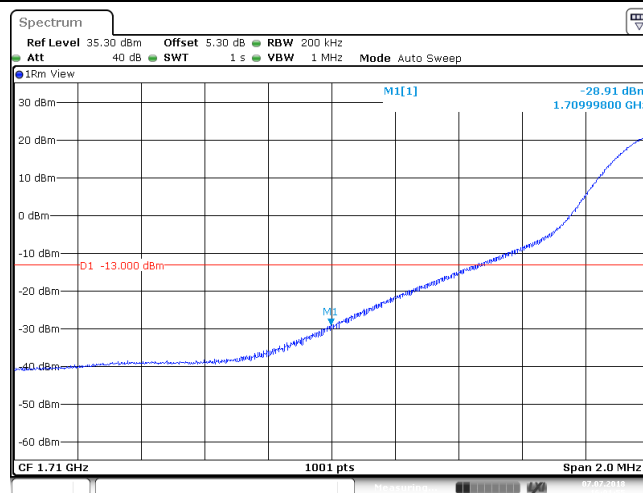
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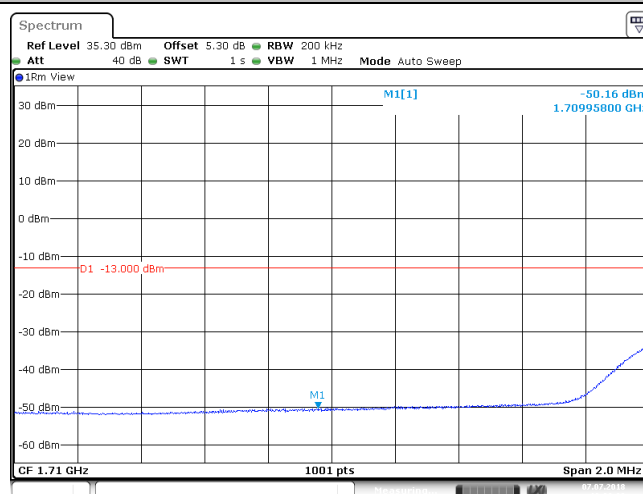
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Date: 7 JUL 2018 16:03:31

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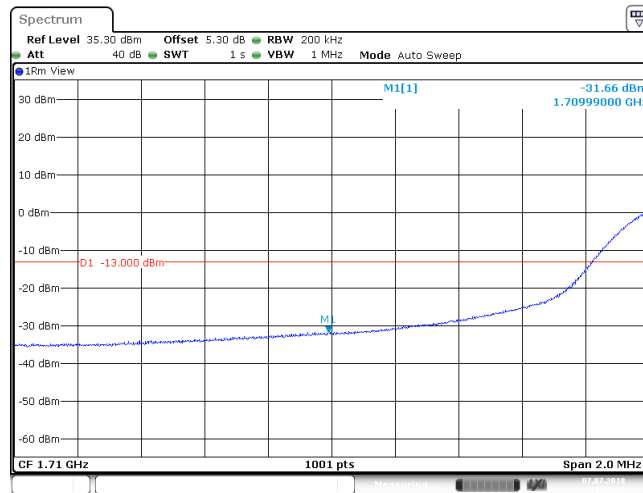
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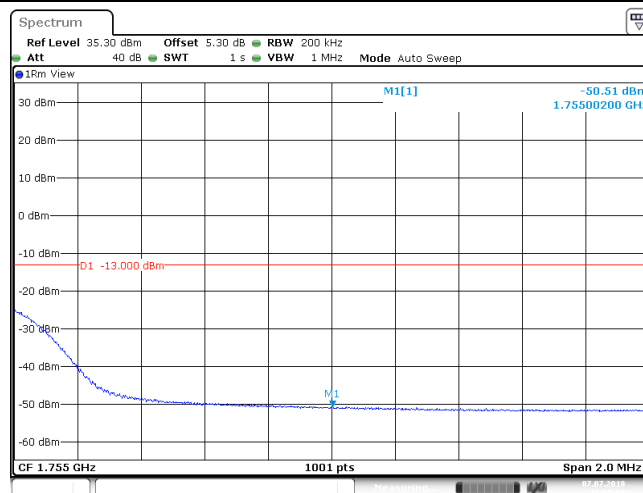
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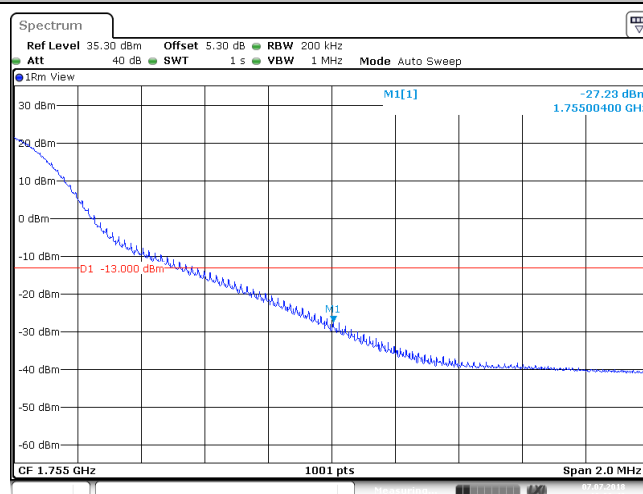
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Date: 7 JUL 2018 16:06:43

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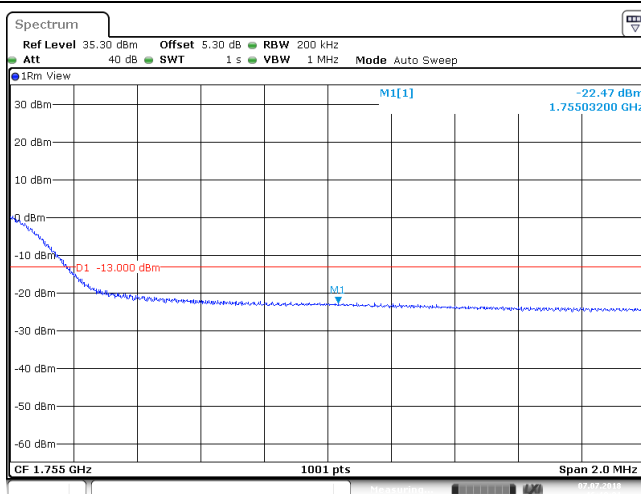
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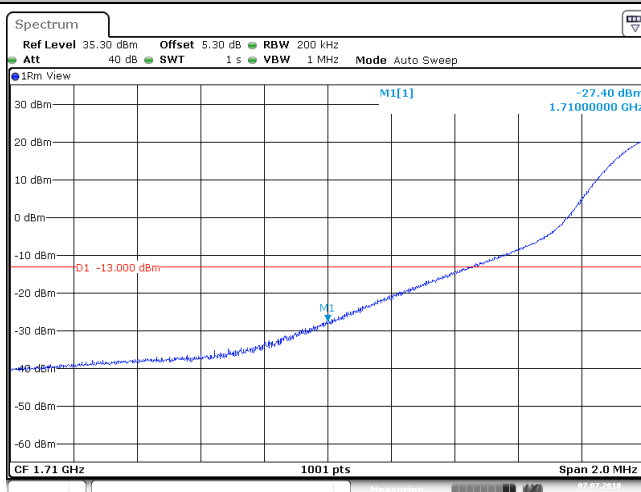
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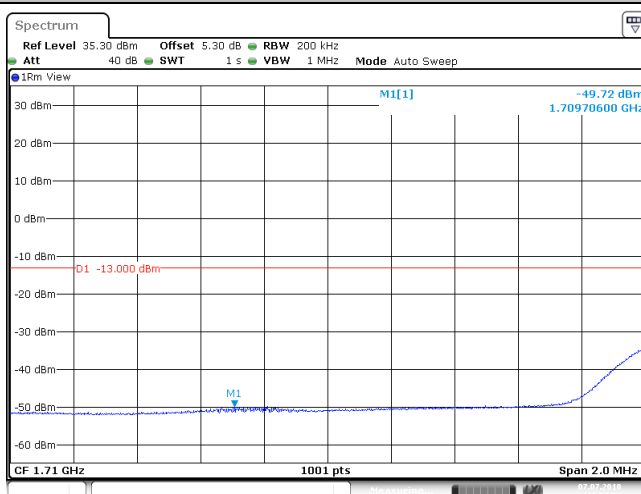
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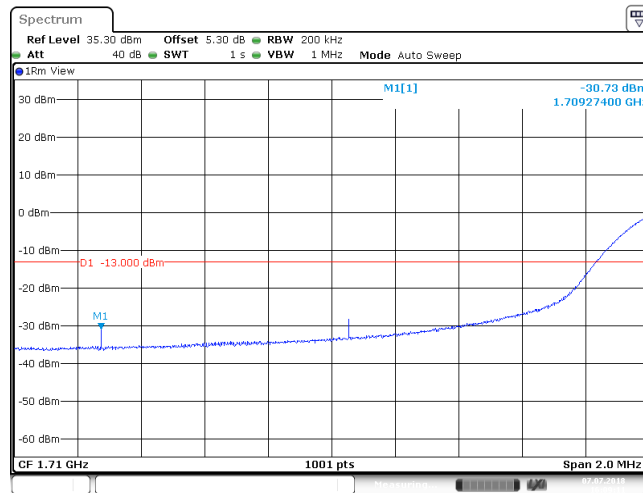
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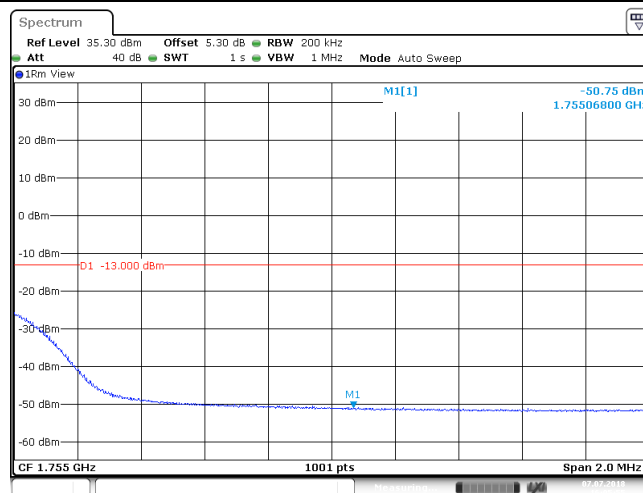
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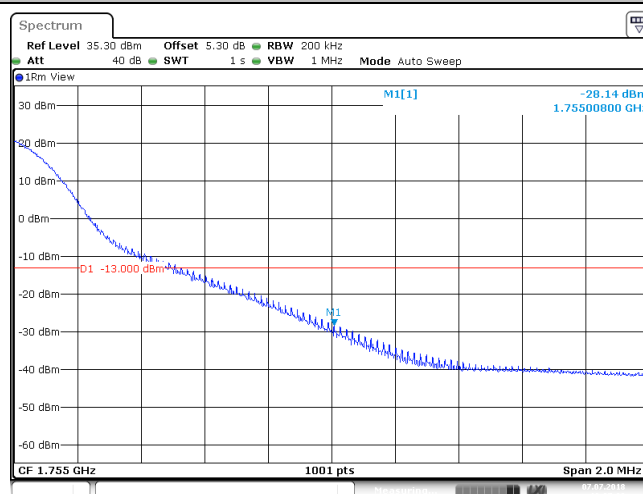
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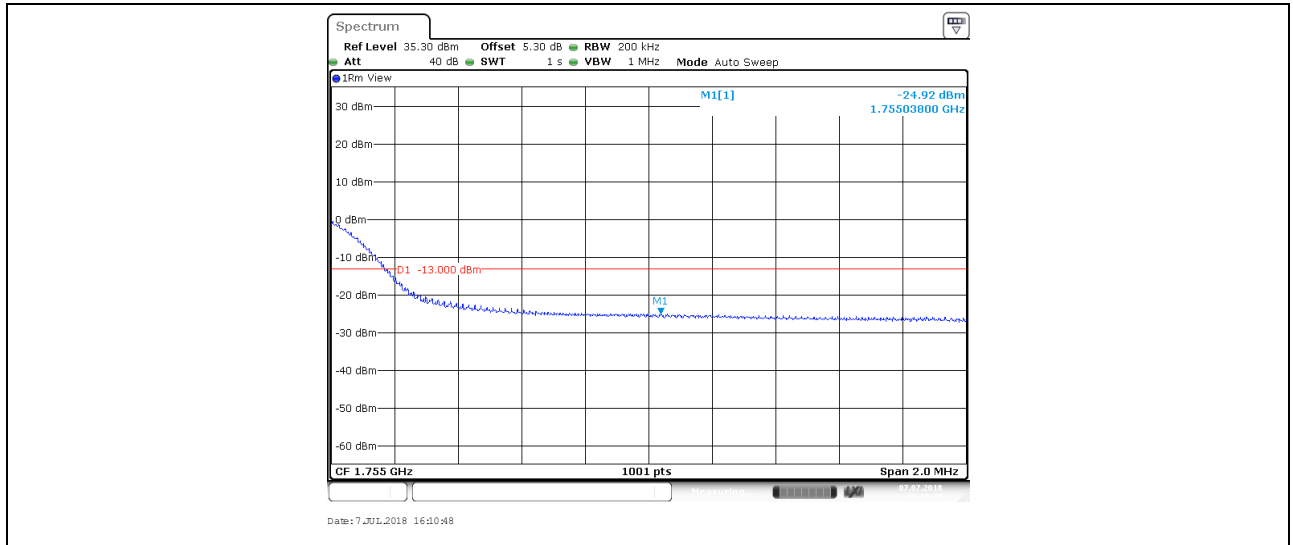
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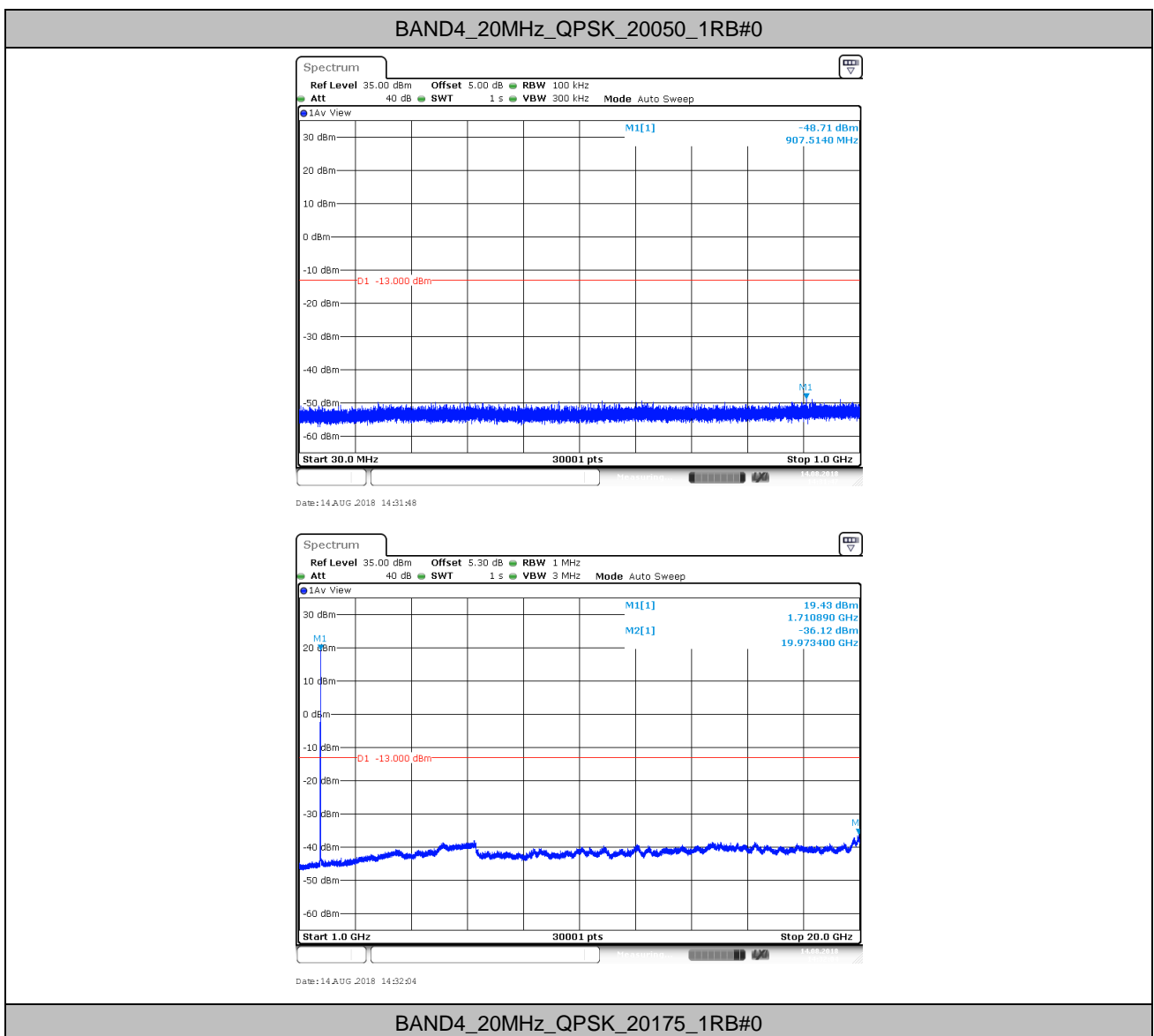




6. Spurious Emission at Antenna Terminal

NOTE: 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.

6.1. Test Plots

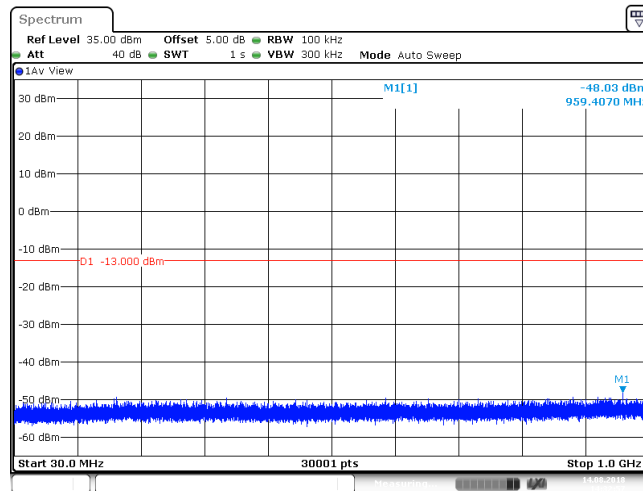




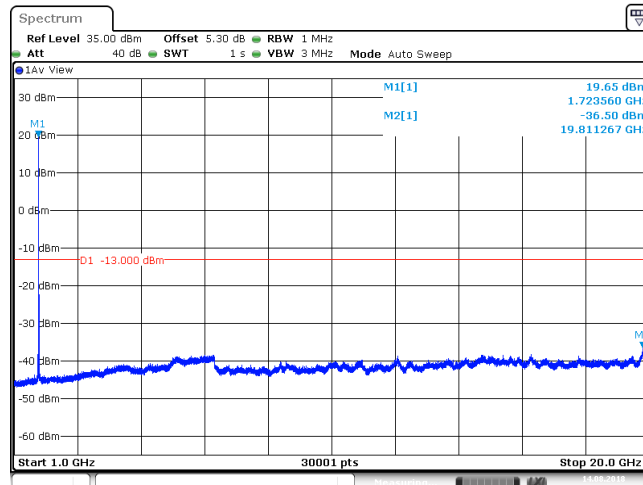
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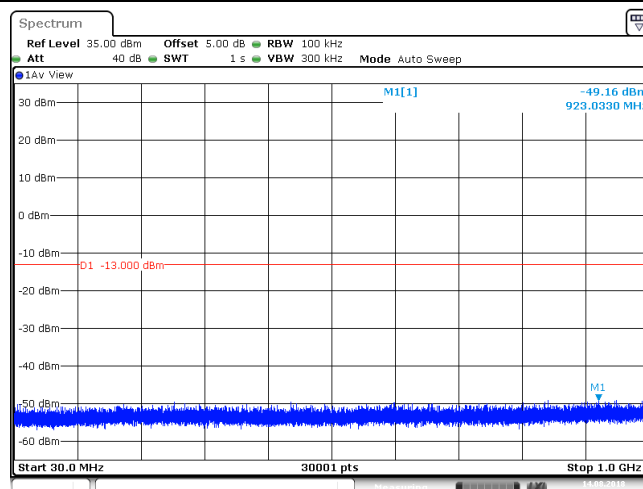


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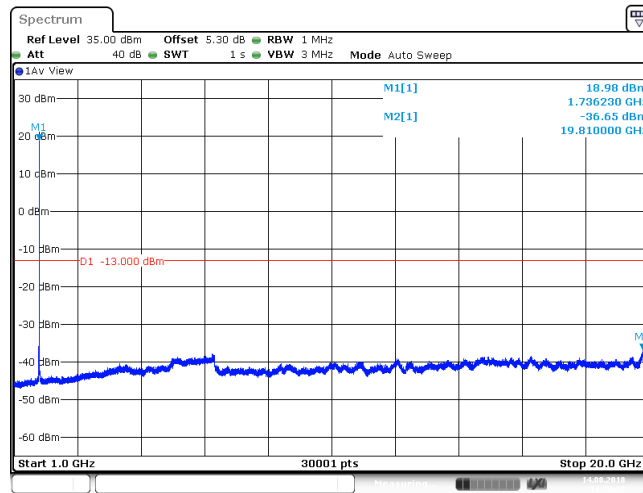
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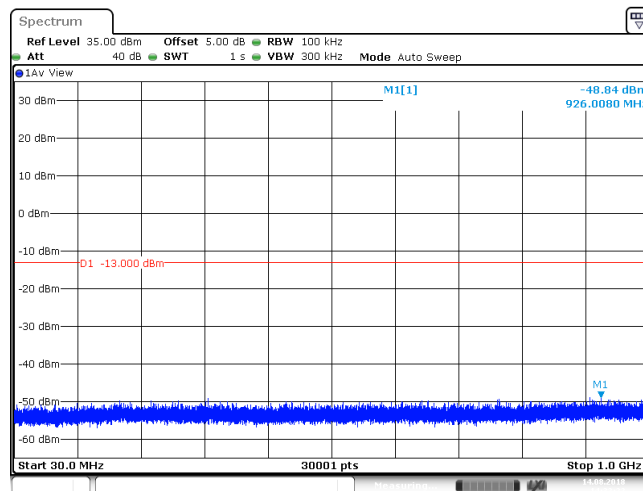
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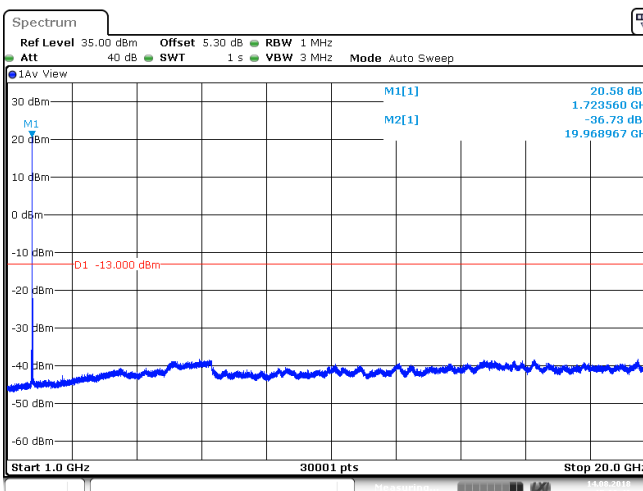


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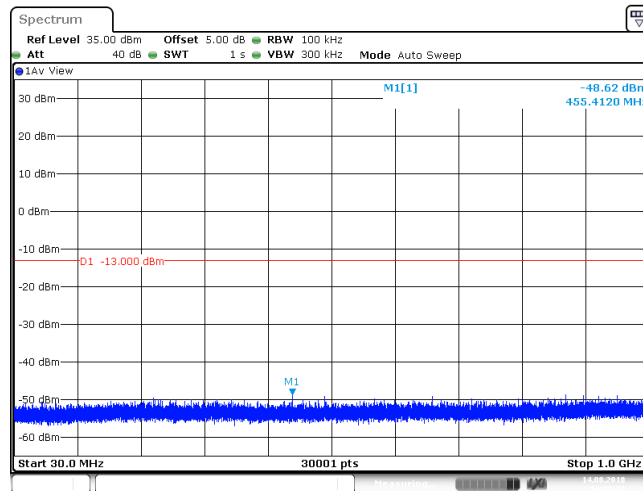
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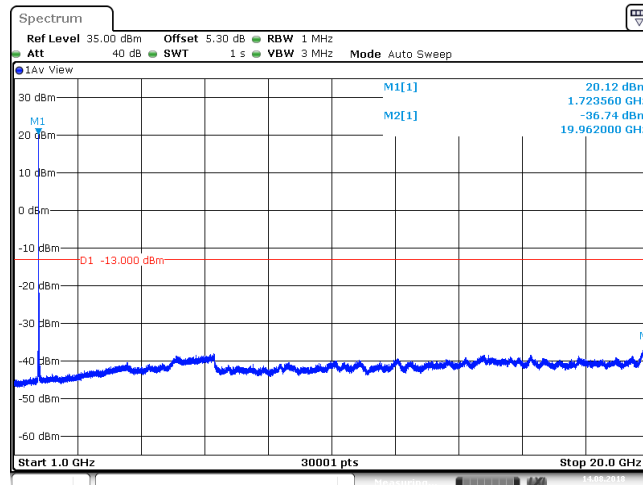
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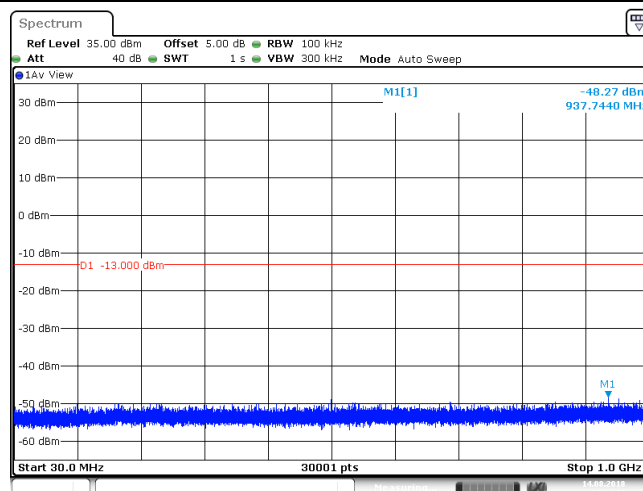


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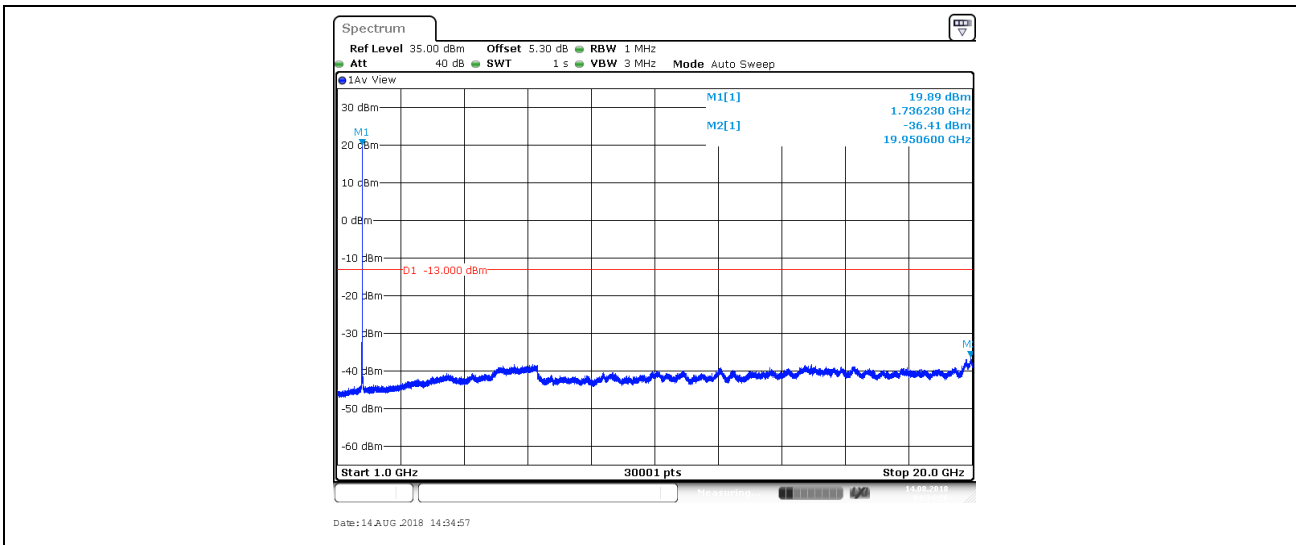
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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 4

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.350000	-81.90	-13.00	68.90	Vertical
125.000000	-85.60	-13.00	72.60	Vertical
3421.850000	-44.66	-13.00	31.66	Vertical
5133.300000	-55.20	-13.00	42.20	Vertical
6844.425000	-58.11	-13.00	45.11	Vertical
8555.550000	-61.17	-13.00	48.17	Vertical
62.700000	-77.70	-13.00	64.70	Horizontal
537.587500	-80.10	-13.00	67.10	Horizontal
3422.175000	-45.65	-13.00	32.65	Horizontal
5133.300000	-61.85	-13.00	48.85	Horizontal
6844.425000	-60.95	-13.00	47.95	Horizontal
8555.550000	-63.80	-13.00	50.80	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.200000	-81.98	-13.00	68.98	Vertical
125.000000	-85.21	-13.00	72.21	Vertical
345.750000	-86.22	-13.00	73.22	Vertical
3447.200000	-49.67	-13.00	36.67	Vertical
5170.675000	-55.09	-13.00	42.09	Vertical
6894.475000	-61.16	-13.00	48.16	Vertical
62.750000	-77.75	-13.00	64.75	Horizontal
537.587500	-79.54	-13.00	66.54	Horizontal
3446.875000	-50.34	-13.00	37.34	Horizontal
5170.675000	-62.13	-13.00	49.13	Horizontal



6894.150000	-62.81	-13.00	49.81	Horizontal
10003.750000	-64.38	-13.00	51.38	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.350000	-82.29	-13.00	69.29	Vertical
353.650000	-86.15	-13.00	73.15	Vertical
3471.900000	-44.76	-13.00	31.76	Vertical
5208.050000	-55.32	-13.00	42.32	Vertical
6944.200000	-56.00	-13.00	43.00	Vertical
8680.350000	-62.60	-13.00	49.60	Vertical
63.100000	-77.74	-13.00	64.74	Horizontal
145.600000	-90.93	-13.00	77.93	Horizontal
537.587500	-80.04	-13.00	67.04	Horizontal
3471.900000	-44.18	-13.00	31.18	Horizontal
5208.050000	-61.70	-13.00	48.70	Horizontal
6944.200000	-58.52	-13.00	45.52	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all 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
BAND4	20MHz	QPSK	20050	100RB#0	VL	NT	11.39	0.006622	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	VN	NT	10.51	0.006110	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	VH	NT	-14.18	-0.008244	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	VL	NT	10.61	0.006124	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	VN	NT	-10.36	-0.005980	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	VH	NT	-12.04	-0.006949	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	VL	NT	-17.28	-0.009903	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	VN	NT	-16.78	-0.009616	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	VH	NT	-12.50	-0.007163	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	VL	NT	-13.92	-0.008093	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	VN	NT	-14.52	-0.008442	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	VH	NT	-14.76	-0.008581	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	VL	NT	-10.87	-0.006274	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	VN	NT	-11.54	-0.006661	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	VH	NT	-11.99	-0.006921	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	VL	NT	-12.12	-0.006946	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	VN	NT	-11.49	-0.006585	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	VH	NT	-11.86	-0.006797	±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
BAND4	20MHz	QPSK	20050	100RB#0	NV	-30	10.84	0.006302	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	NV	-20	12.72	0.007395	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	NV	0	12.10	0.007035	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	NV	10	12.25	0.007122	±2.5	PASS
BAND4	20MHz	QPSK	20050	100RB#0	NV	20	-11.39	-0.006622	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	NV	-30	-13.06	-0.007538	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	NV	-20	12.03	0.006944	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	NV	0	-12.62	-0.007284	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	NV	10	-10.70	-0.006176	±2.5	PASS
BAND4	20MHz	QPSK	20175	100RB#0	NV	20	-11.36	-0.006557	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	NV	-30	-14.25	-0.008166	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	NV	-20	-13.92	-0.007977	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	NV	0	-16.44	-0.009421	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	NV	10	-19.00	-0.010888	±2.5	PASS
BAND4	20MHz	QPSK	20300	100RB#0	NV	20	-11.96	-0.006854	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	NV	-30	10.59	0.006157	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	NV	-20	10.90	0.006337	±2.5	PASS

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BAND4	20MHz	16QAM	20050	100RB#0	NV	0	10.70	0.006221	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	NV	10	10.90	0.006337	±2.5	PASS
BAND4	20MHz	16QAM	20050	100RB#0	NV	20	11.00	0.006395	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	NV	-30	13.19	0.007613	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	NV	-20	10.66	0.006153	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	NV	0	-11.20	-0.006465	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	NV	10	-12.37	-0.007140	±2.5	PASS
BAND4	20MHz	16QAM	20175	100RB#0	NV	20	-10.79	-0.006228	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	NV	-30	-13.19	-0.007559	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	NV	-20	-12.99	-0.007444	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	NV	0	-14.38	-0.008241	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	NV	10	-17.52	-0.010040	±2.5	PASS
BAND4	20MHz	16QAM	20300	100RB#0	NV	20	-13.07	-0.007490	±2.5	PASS

The End