

Appendix for LTE Band4-2

FCC ID: 2AC88-GLMU19A02

CTC Laboratories, Inc.

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APPENDIX E: CONDUCTED SPURIOUS EMISSION.....90

APPENDIX F: FREQUENCY STABILITY.....169

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Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	Range1:0.009~0.15MHz	-53.17	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range2:0.15~30MHz	-50.9	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range3:30~1000MHz	-60.63	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range4:1000~5000MHz	-38.17	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range5:5000~12000MHz	-40.41	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	Range6:12000~26500MHz	-58.18	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-54.52	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-51.07	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-60.66	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-37.15	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-38.8	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.44	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range1:0.009~0.15MHz	-53.68	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range2:0.15~30MHz	-51.96	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range3:30~1000MHz	-59.46	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range4:1000~5000MHz	-40.06	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range5:5000~12000MHz	-38.95	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	Range6:12000~26500MHz	-58.59	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range1:0.009~0.15MHz	-51.77	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range2:0.15~30MHz	-52.72	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range3:30~1000MHz	-59.06	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range4:1000~5000MHz	-38.37	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range5:5000~12000MHz	-40.25	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	Range6:12000~26500MHz	-58.6	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-51.72	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-51.86	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-37.78	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-39.32	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.39	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range1:0.009~0.15MHz	-53.03	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range2:0.15~30MHz	-51.89	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range3:30~1000MHz	-60.08	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range4:1000~5000MHz	-40.25	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	Range5:5000~12000MHz	-38.78	PASS

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Band4	1.4MHz	16QAM	20393	1RB#0	Range6:12000~26500MHz	-58.32	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range1:0.009~0.15MHz	-52.56	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range2:0.15~30MHz	-51.86	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range3:30~1000MHz	-59.39	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range4:1000~5000MHz	-38.05	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range5:5000~12000MHz	-39.87	PASS
Band4	3MHz	QPSK	19965	1RB#0	Range6:12000~26500MHz	-58.48	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-54.43	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-52.51	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-60.45	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-37.28	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-38.48	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.54	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range1:0.009~0.15MHz	-53.16	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range2:0.15~30MHz	-51.35	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range3:30~1000MHz	-60.5	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range4:1000~5000MHz	-39.44	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range5:5000~12000MHz	-38.44	PASS
Band4	3MHz	QPSK	20385	1RB#0	Range6:12000~26500MHz	-58.49	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range1:0.009~0.15MHz	-52.69	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range2:0.15~30MHz	-50.34	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range3:30~1000MHz	-60.23	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range4:1000~5000MHz	-38.93	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range5:5000~12000MHz	-41.42	PASS
Band4	3MHz	16QAM	19965	1RB#0	Range6:12000~26500MHz	-58.46	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-53.45	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-53.05	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60.16	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-37.87	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-40.67	PASS
Band4	3MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.55	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range1:0.009~0.15MHz	-51.3	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range2:0.15~30MHz	-53.6	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range3:30~1000MHz	-60.24	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range4:1000~5000MHz	-39.65	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range5:5000~12000MHz	-39.63	PASS
Band4	3MHz	16QAM	20385	1RB#0	Range6:12000~26500MHz	-58.55	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range1:0.009~0.15MHz	-53.12	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range2:0.15~30MHz	-50.51	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range3:30~1000MHz	-60.09	PASS

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Band4	5MHz	QPSK	19975	1RB#0	Range4:1000~5000MHz	-38.33	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range5:5000~12000MHz	-40.2	PASS
Band4	5MHz	QPSK	19975	1RB#0	Range6:12000~26500MHz	-58.7	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-53.74	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-52.44	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-60.11	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-37.27	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-39.06	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.44	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range1:0.009~0.15MHz	-52.17	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range2:0.15~30MHz	-51.06	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range3:30~1000MHz	-60.6	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range4:1000~5000MHz	-39.08	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range5:5000~12000MHz	-38.26	PASS
Band4	5MHz	QPSK	20375	1RB#0	Range6:12000~26500MHz	-58.62	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range1:0.009~0.15MHz	-52.83	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range2:0.15~30MHz	-52.84	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range3:30~1000MHz	-60.41	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range4:1000~5000MHz	-39.39	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range5:5000~12000MHz	-42.09	PASS
Band4	5MHz	16QAM	19975	1RB#0	Range6:12000~26500MHz	-58.22	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-54.01	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-52.42	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60.51	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-37.88	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-39.2	PASS
Band4	5MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.41	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range1:0.009~0.15MHz	-51.99	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range2:0.15~30MHz	-51.09	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range3:30~1000MHz	-60.43	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range4:1000~5000MHz	-38.96	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range5:5000~12000MHz	-38.21	PASS
Band4	5MHz	16QAM	20375	1RB#0	Range6:12000~26500MHz	-58.56	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range1:0.009~0.15MHz	-52.1	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range2:0.15~30MHz	-52.46	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range3:30~1000MHz	-60.36	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range4:1000~5000MHz	-39.14	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range5:5000~12000MHz	-41.61	PASS
Band4	10MHz	QPSK	20000	1RB#0	Range6:12000~26500MHz	-58.42	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-54.62	PASS

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Band4	10MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-52.95	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-59.84	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-38.11	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-41.31	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.62	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range1:0.009~0.15MHz	-52.96	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range2:0.15~30MHz	-53.3	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range3:30~1000MHz	-60.1	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range4:1000~5000MHz	-38.25	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range5:5000~12000MHz	-39.8	PASS
Band4	10MHz	QPSK	20350	1RB#0	Range6:12000~26500MHz	-58.63	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range1:0.009~0.15MHz	-52.76	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range2:0.15~30MHz	-51.33	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range3:30~1000MHz	-61.17	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range4:1000~5000MHz	-39.35	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range5:5000~12000MHz	-41.31	PASS
Band4	10MHz	16QAM	20000	1RB#0	Range6:12000~26500MHz	-58.63	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-53.15	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-52.96	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60.44	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-38.82	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-41.35	PASS
Band4	10MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.16	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range1:0.009~0.15MHz	-52.46	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range2:0.15~30MHz	-52.44	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range3:30~1000MHz	-60.88	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range4:1000~5000MHz	-39.05	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range5:5000~12000MHz	-40.48	PASS
Band4	10MHz	16QAM	20350	1RB#0	Range6:12000~26500MHz	-58.45	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range1:0.009~0.15MHz	-52.7	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range2:0.15~30MHz	-53.11	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range3:30~1000MHz	-59.96	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range4:1000~5000MHz	-39.27	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range5:5000~12000MHz	-42.26	PASS
Band4	15MHz	QPSK	20025	1RB#0	Range6:12000~26500MHz	-58.56	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-54.23	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-50.75	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-59.9	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-38.62	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-41.72	PASS

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Band4	15MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.59	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range1:0.009~0.15MHz	-53.45	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range2:0.15~30MHz	-53.8	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range3:30~1000MHz	-60.39	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range4:1000~5000MHz	-38.04	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range5:5000~12000MHz	-40.35	PASS
Band4	15MHz	QPSK	20325	1RB#0	Range6:12000~26500MHz	-58.54	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range1:0.009~0.15MHz	-53.1	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range2:0.15~30MHz	-53.93	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range3:30~1000MHz	-60.2	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range4:1000~5000MHz	-39.38	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range5:5000~12000MHz	-42	PASS
Band4	15MHz	16QAM	20025	1RB#0	Range6:12000~26500MHz	-58.58	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-53.39	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-54.63	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60.8	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-38.52	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-40.9	PASS
Band4	15MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.36	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range1:0.009~0.15MHz	-53.02	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range2:0.15~30MHz	-55.65	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range3:30~1000MHz	-60.4	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range4:1000~5000MHz	-38.13	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range5:5000~12000MHz	-41.15	PASS
Band4	15MHz	16QAM	20325	1RB#0	Range6:12000~26500MHz	-58.51	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range1:0.009~0.15MHz	-53.04	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:0.15~30MHz	-52.81	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range3:30~1000MHz	-60.59	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range4:1000~5000MHz	-39.44	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range5:5000~12000MHz	-41.95	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range6:12000~26500MHz	-58.51	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:0.009~0.15MHz	-54.28	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:0.15~30MHz	-50.97	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range3:30~1000MHz	-60.55	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range4:1000~5000MHz	-39.54	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range5:5000~12000MHz	-41.78	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range6:12000~26500MHz	-58.53	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:0.009~0.15MHz	-54.45	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:0.15~30MHz	-53.68	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range3:30~1000MHz	-60.87	PASS

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Band4	20MHz	QPSK	20300	1RB#0	Range4:1000~5000MHz	-37.49	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range5:5000~12000MHz	-41.65	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range6:12000~26500MHz	-58.24	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:0.009~0.15MHz	-52.89	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:0.15~30MHz	-53.09	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range3:30~1000MHz	-59.92	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range4:1000~5000MHz	-39.88	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range5:5000~12000MHz	-42.58	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range6:12000~26500MHz	-58.5	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:0.009~0.15MHz	-52.1	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:0.15~30MHz	-52.6	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range3:30~1000MHz	-60.82	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range4:1000~5000MHz	-40.08	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range5:5000~12000MHz	-43.12	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range6:12000~26500MHz	-58.58	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:0.009~0.15MHz	-54.02	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:0.15~30MHz	-54.24	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range3:30~1000MHz	-60.31	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range4:1000~5000MHz	-38.36	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range5:5000~12000MHz	-41.81	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range6:12000~26500MHz	-58.52	PASS

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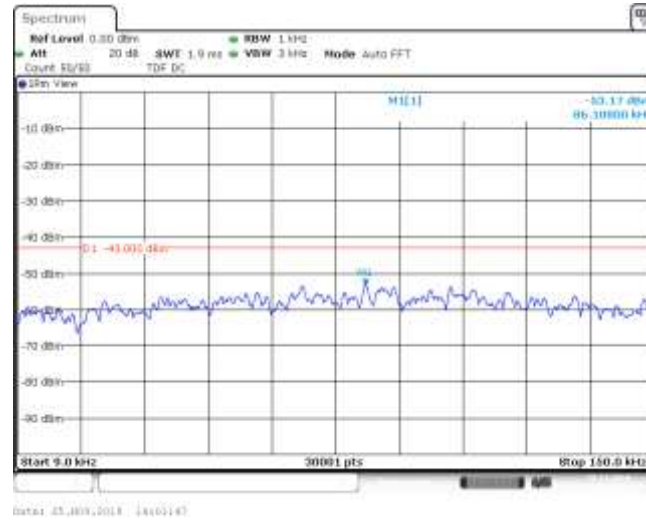
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

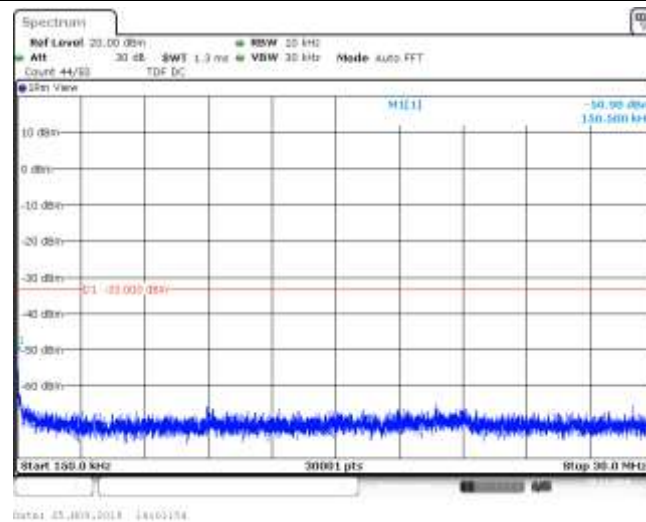
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Test Graphs

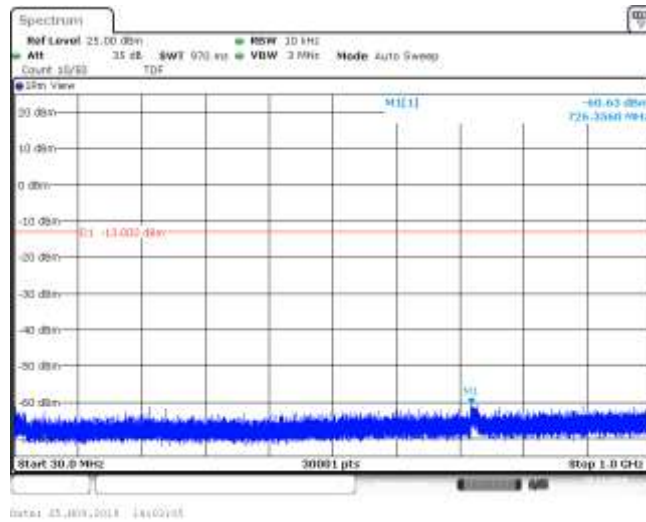
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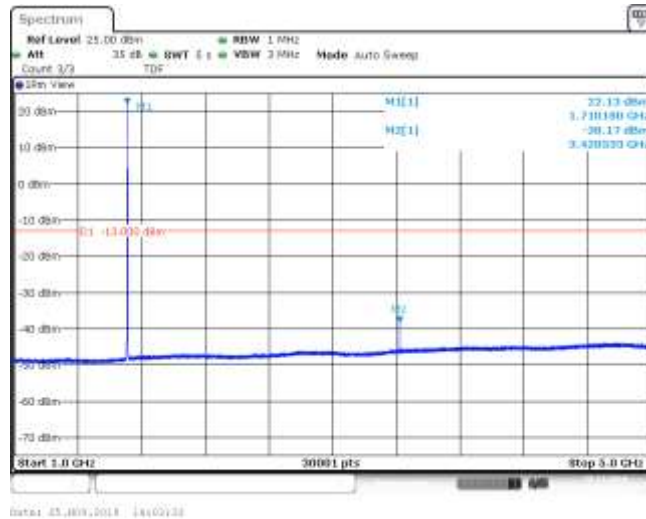
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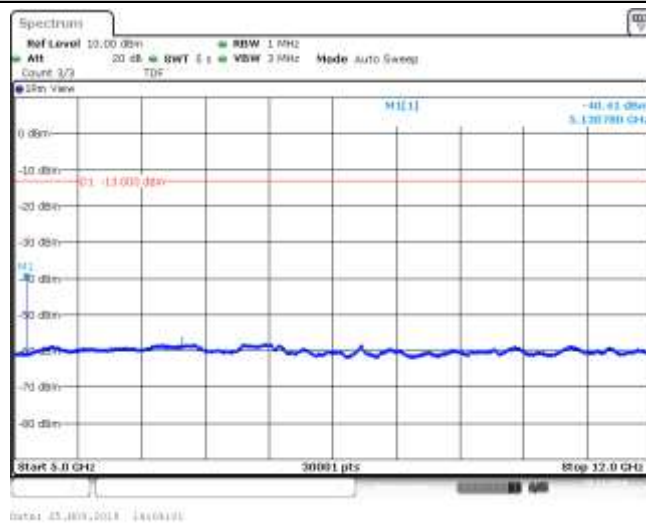
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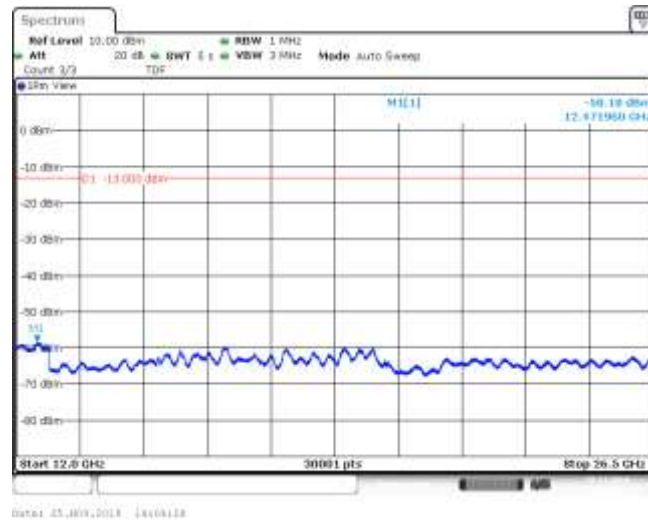
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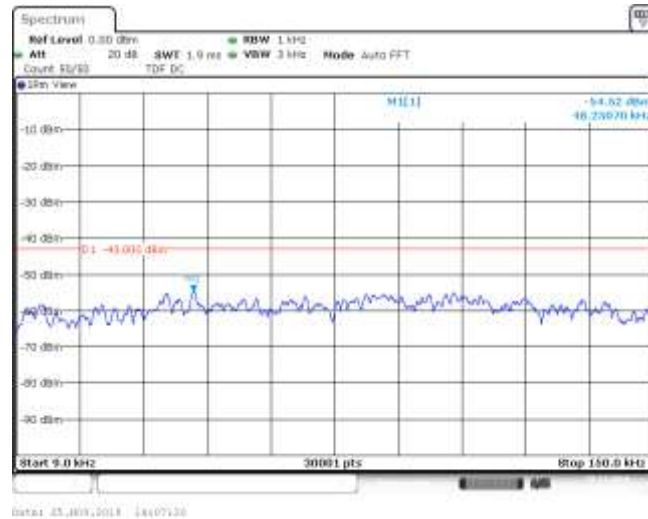
Tel.: (86)755-27521059

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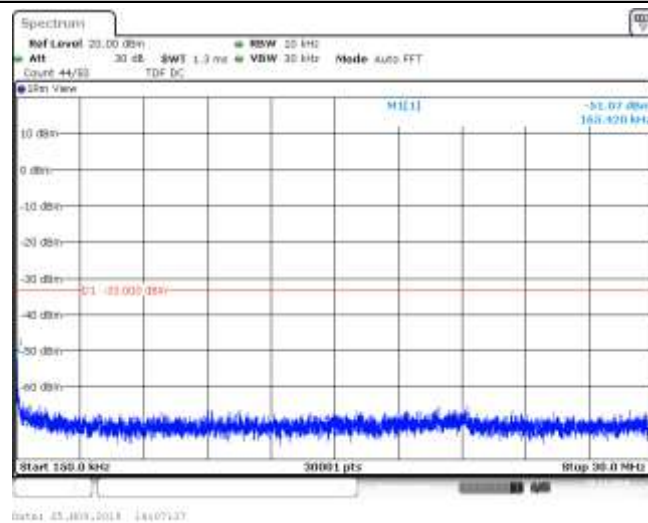
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Band4_1.4MHz_QPSK_20175_1RB#0



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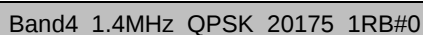
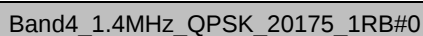
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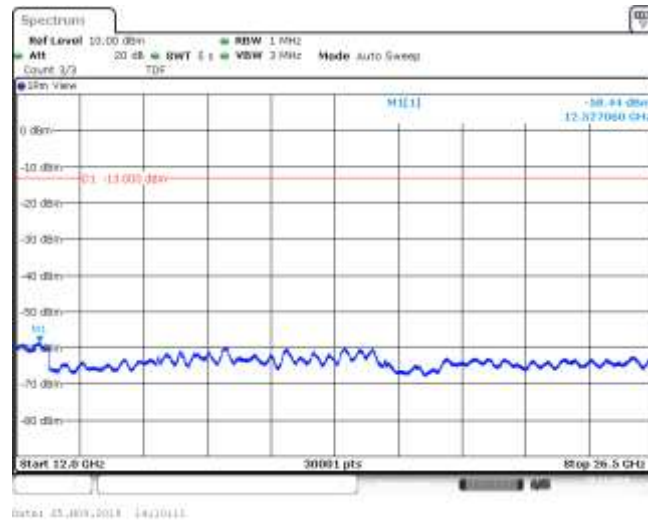
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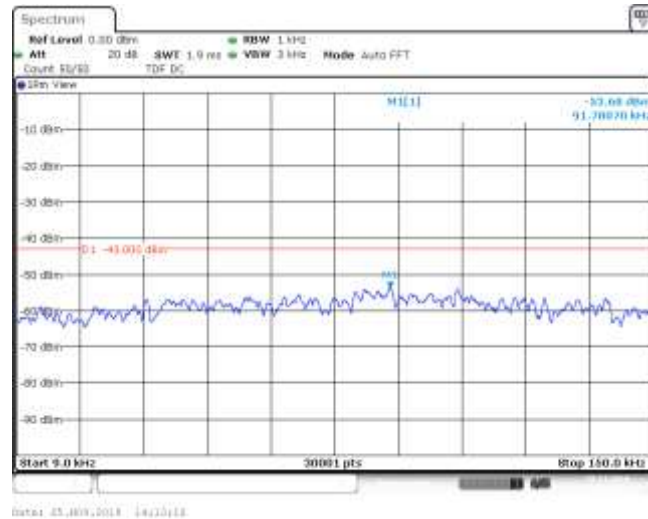
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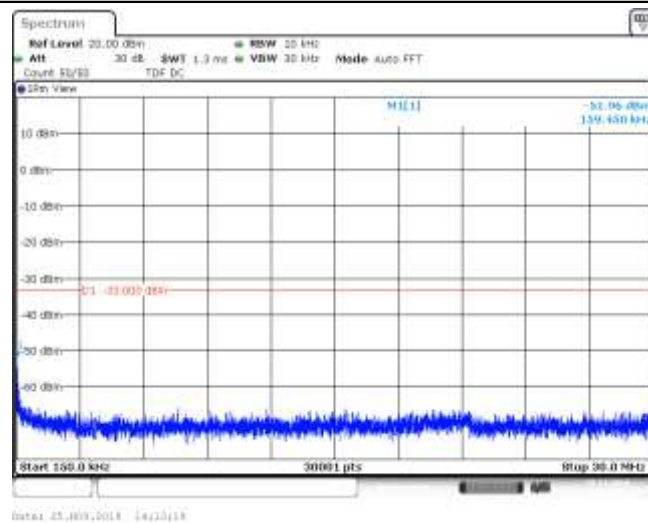
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Band4_1.4MHz_QPSK_20393_1RB#0



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Band4_1.4MHz_QPSK_20393_1RB#0

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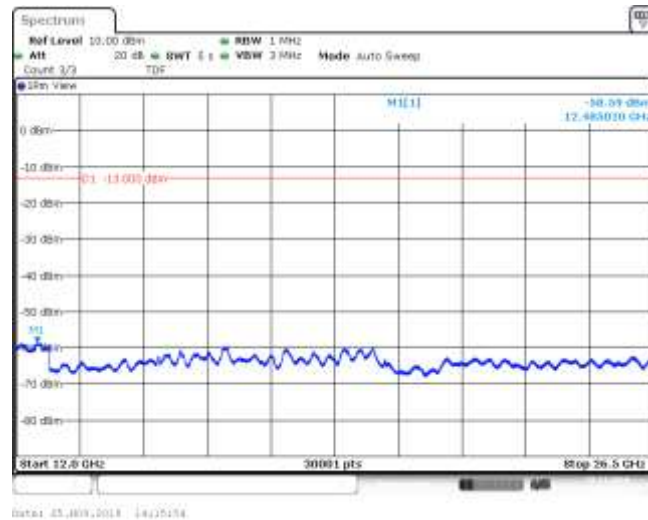
Tel.: (86)755-27521059

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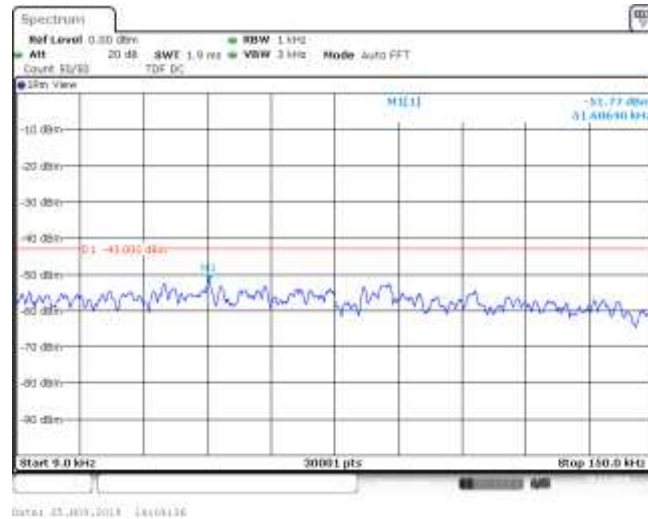
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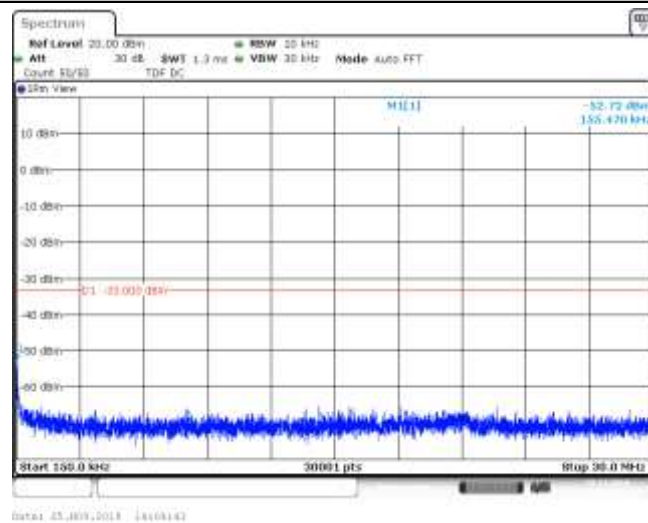
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Band4_1.4MHz_16QAM_19957_1RB#0



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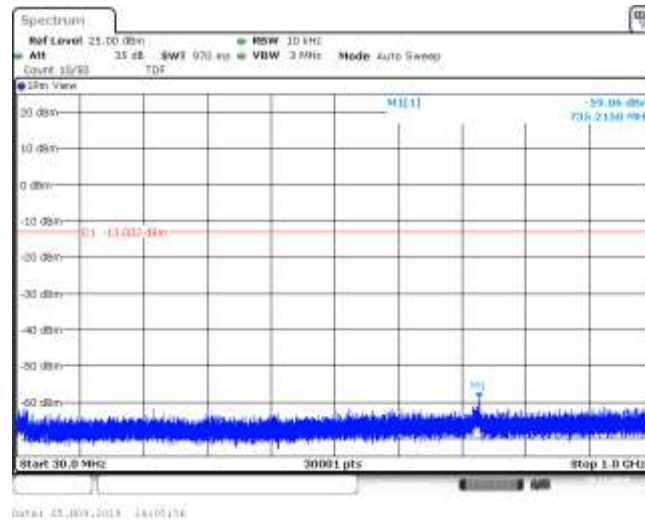
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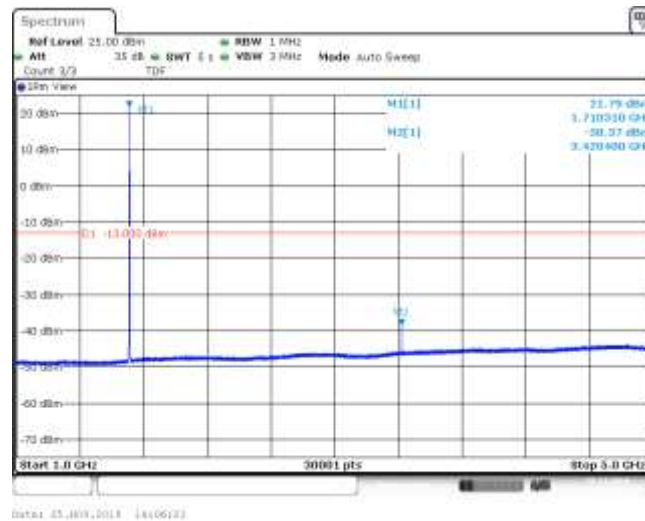
Tel.: (86)755-27521059

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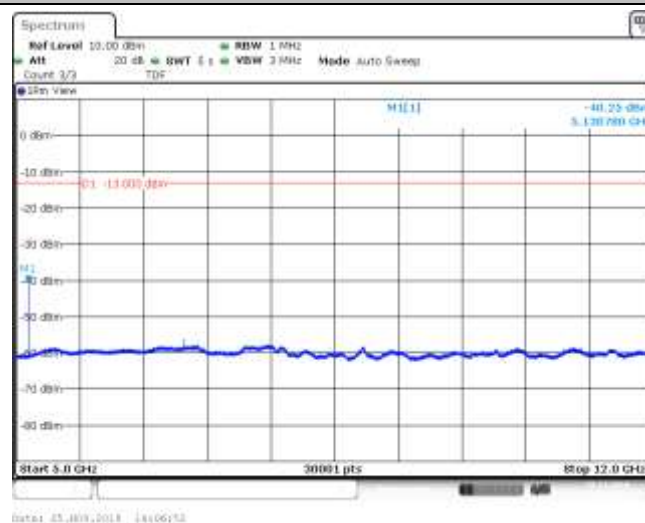
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Band4_1.4MHz_16QAM_19957_1RB#0



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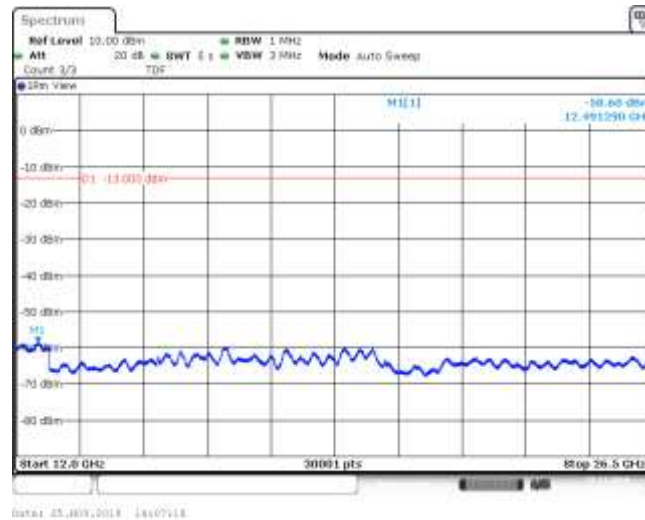
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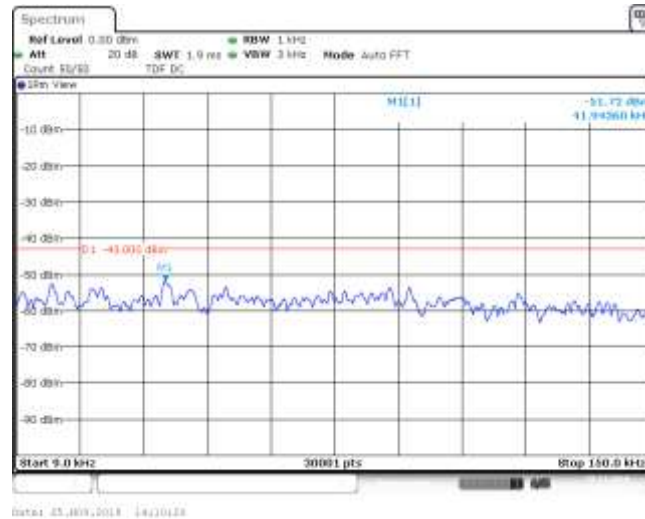
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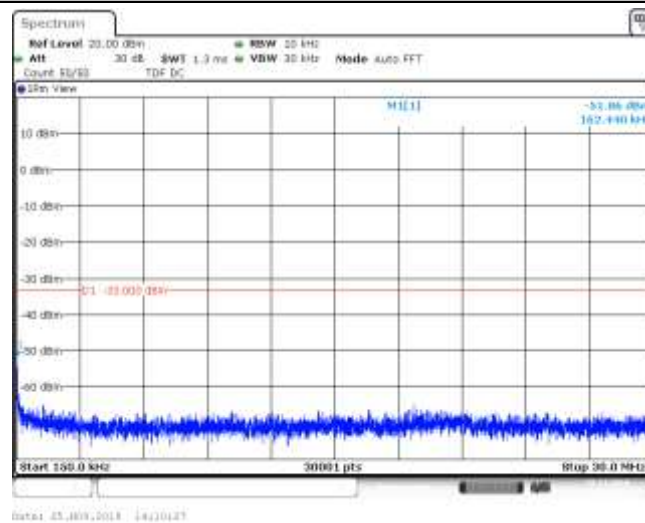
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Band4_1.4MHz_16QAM_20175_1RB#0



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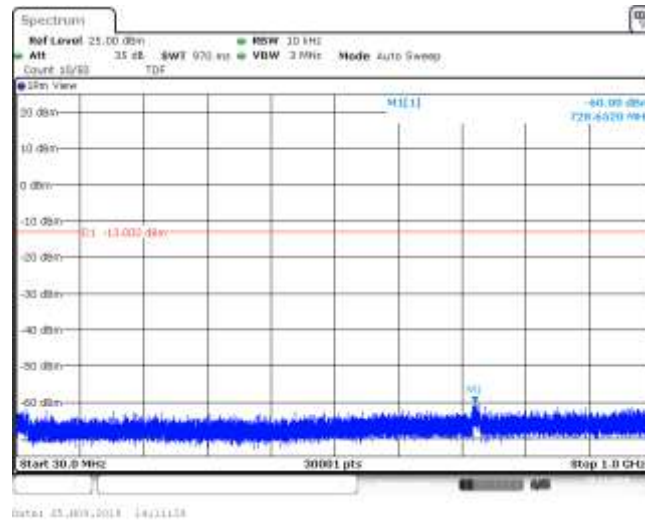
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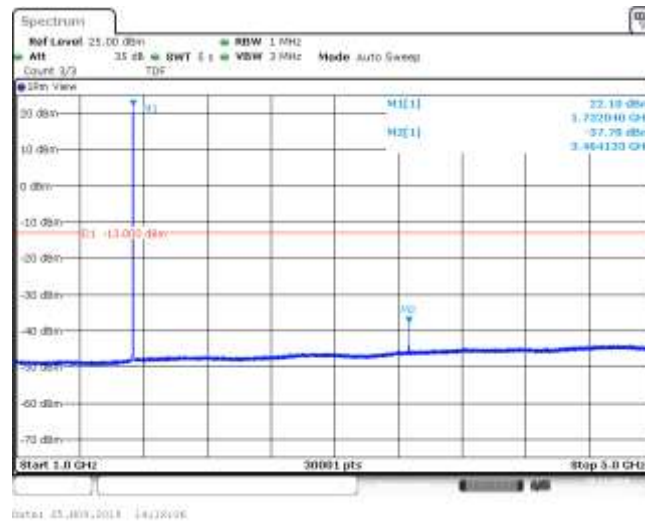
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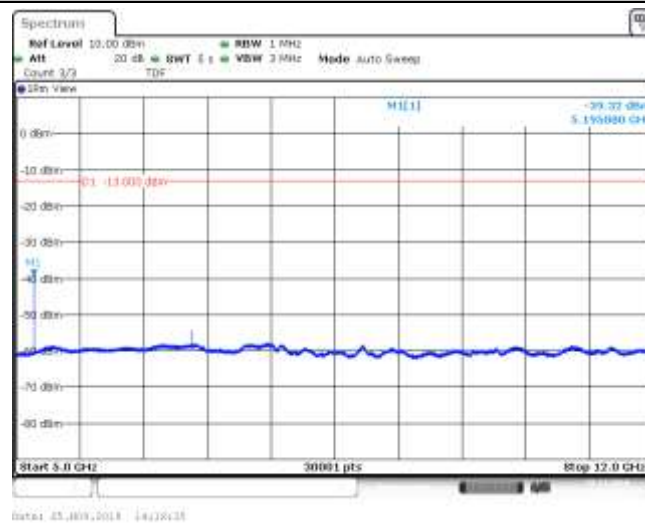
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Band4_1.4MHz_16QAM_20175_1RB#0



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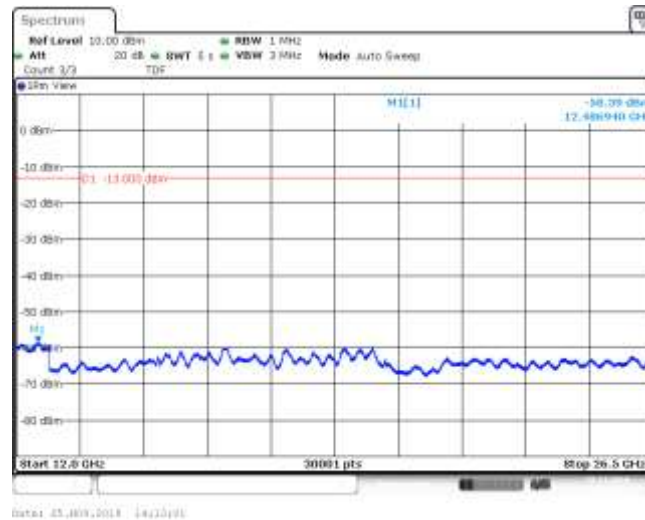
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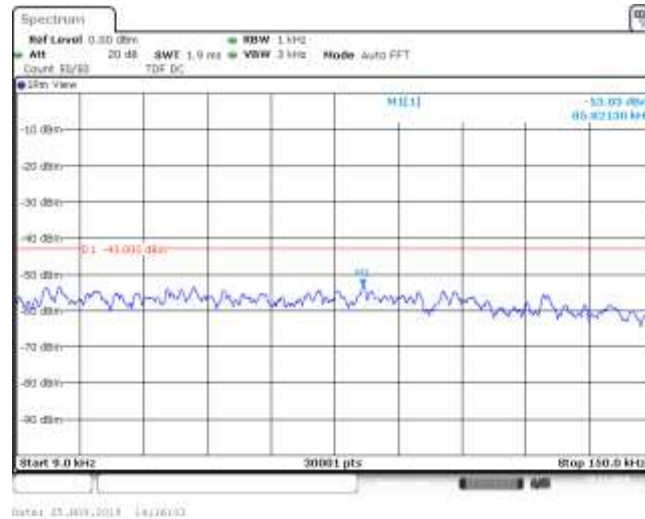
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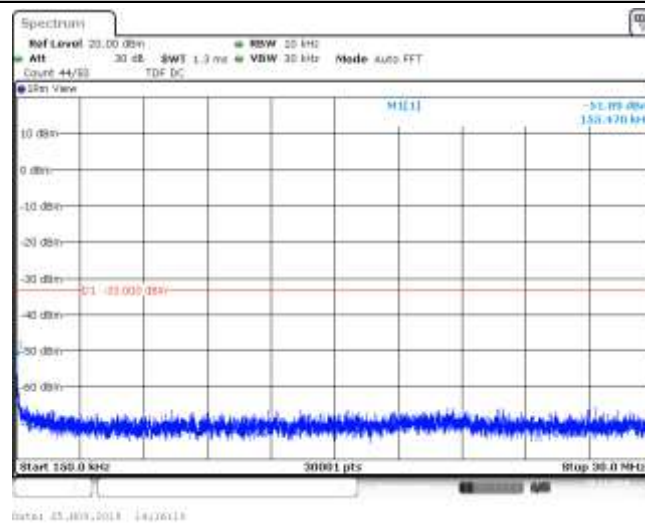
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Band4_1.4MHz_16QAM_20393_1RB#0



Band4_1.4MHz_16QAM_20393_1RB#0



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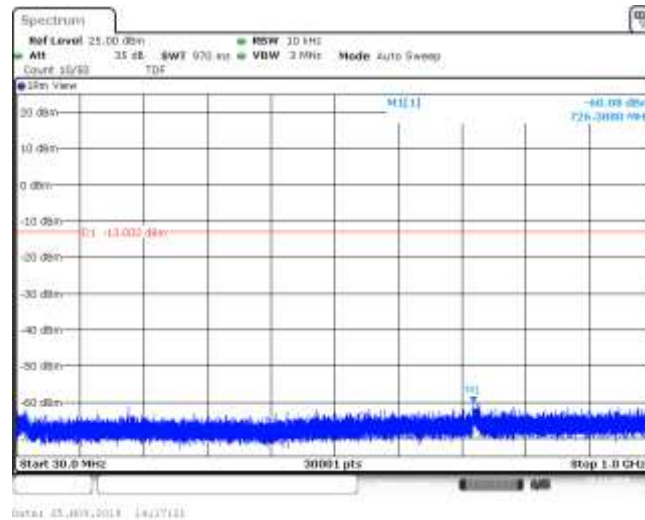
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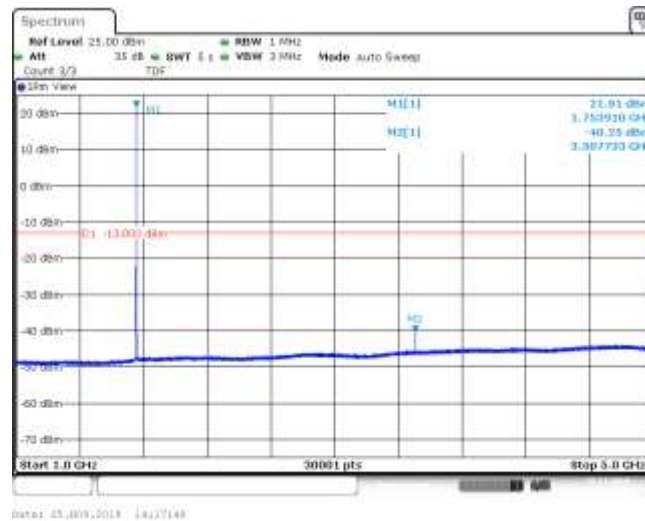
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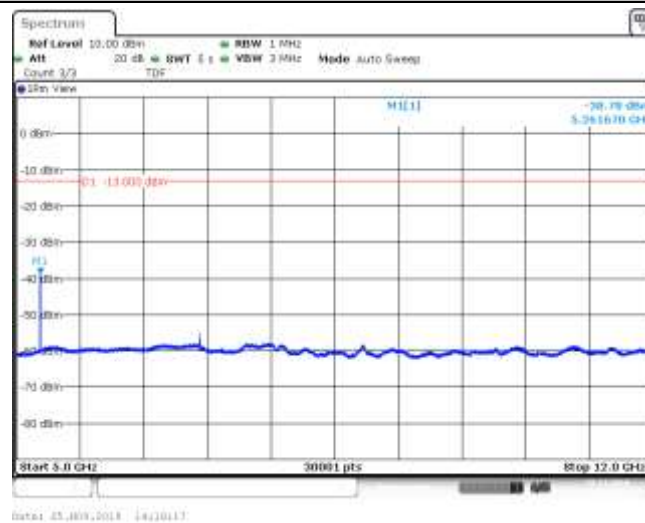
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Band4_1.4MHz_16QAM_20393_1RB#0



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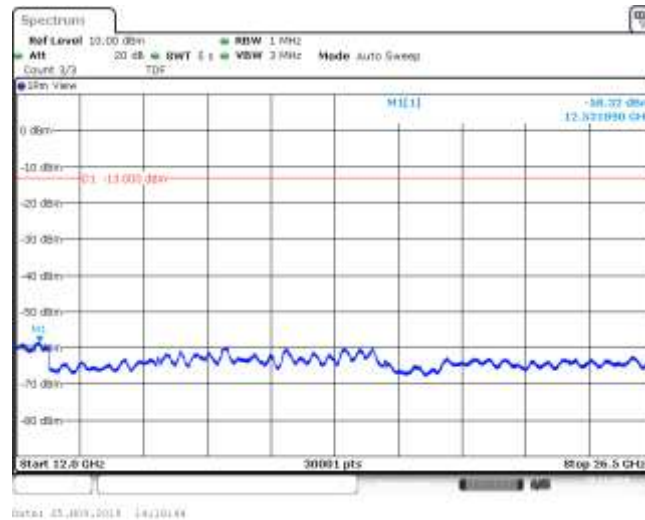
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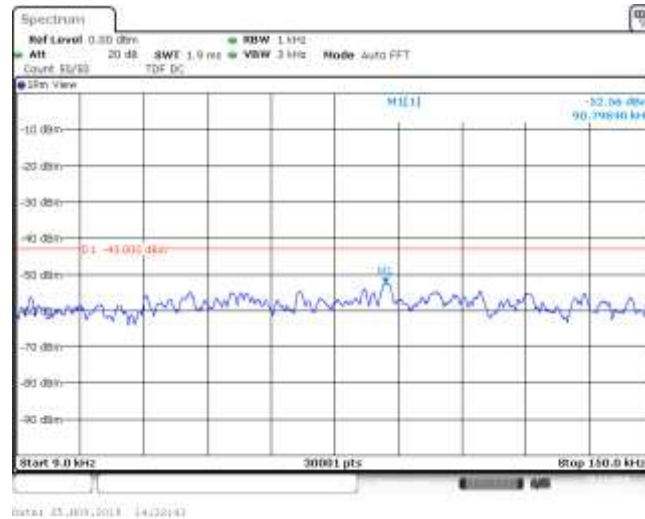
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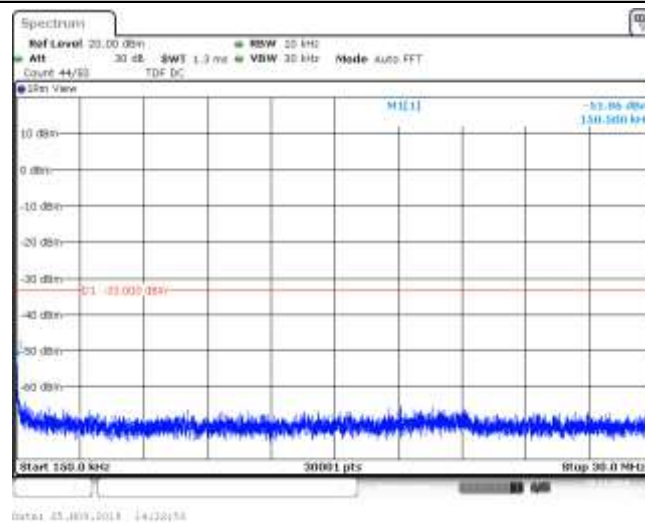
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Band4_3MHz_QPSK_19965_1RB#0



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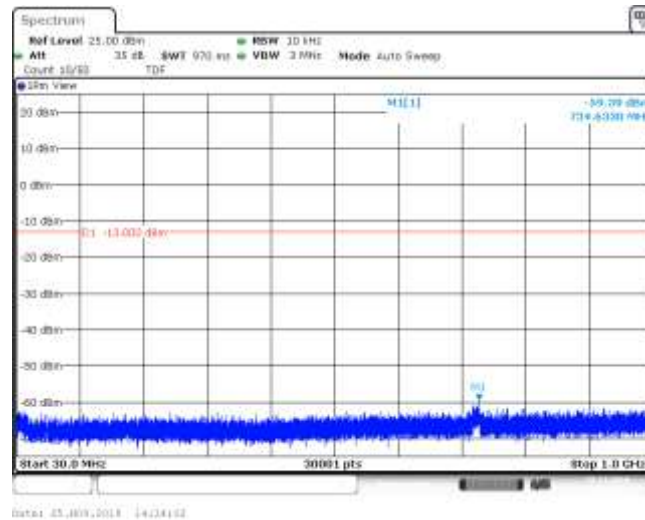
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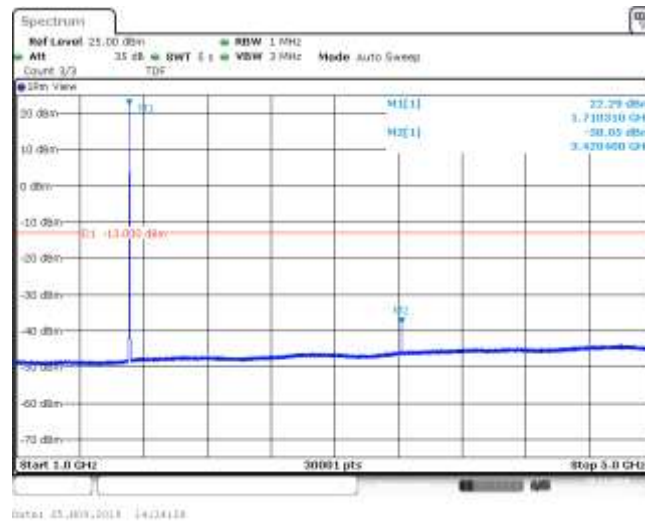
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Fax: (86)755-27521011

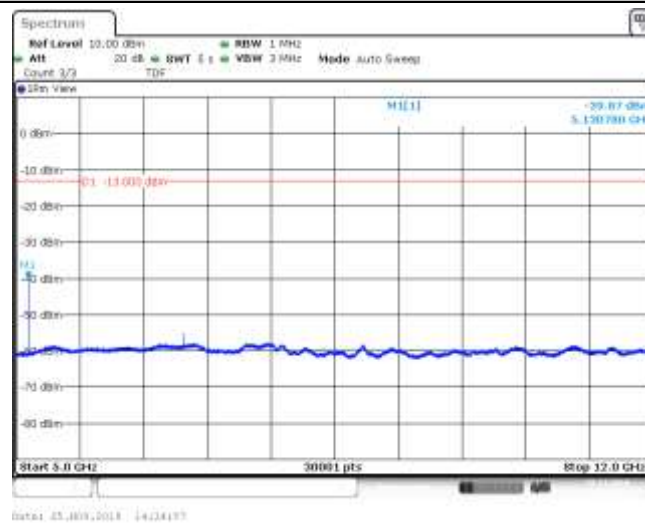
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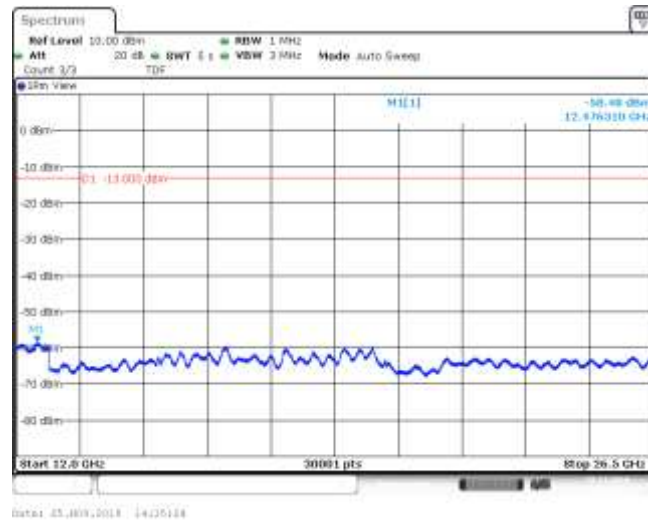
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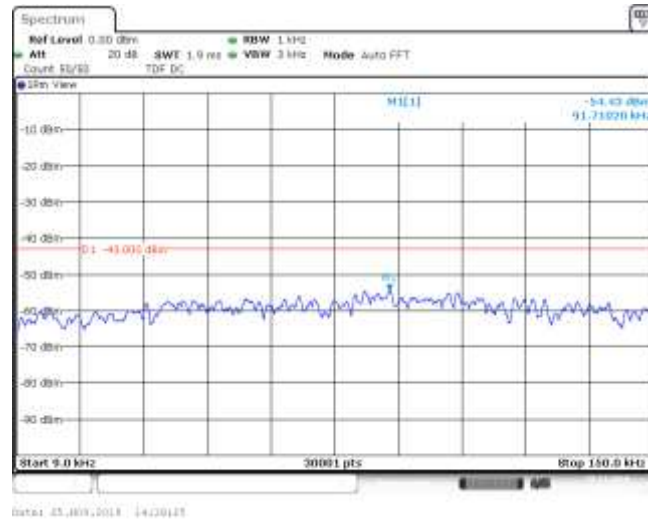
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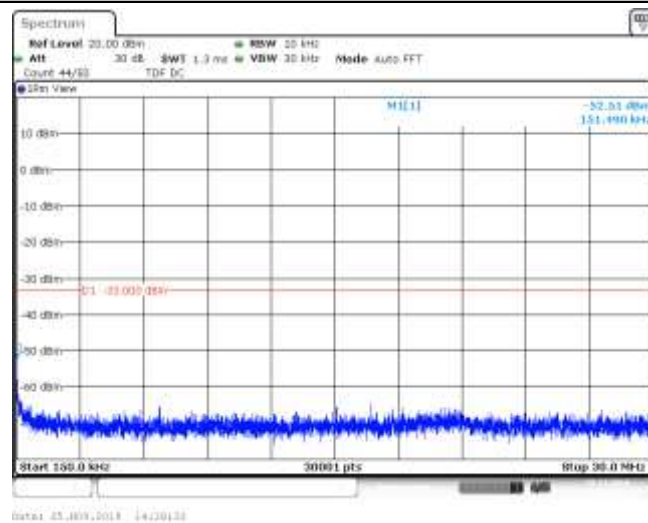
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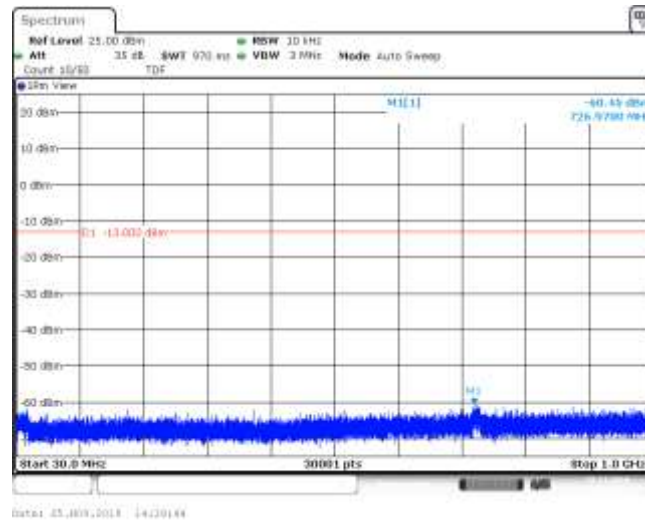
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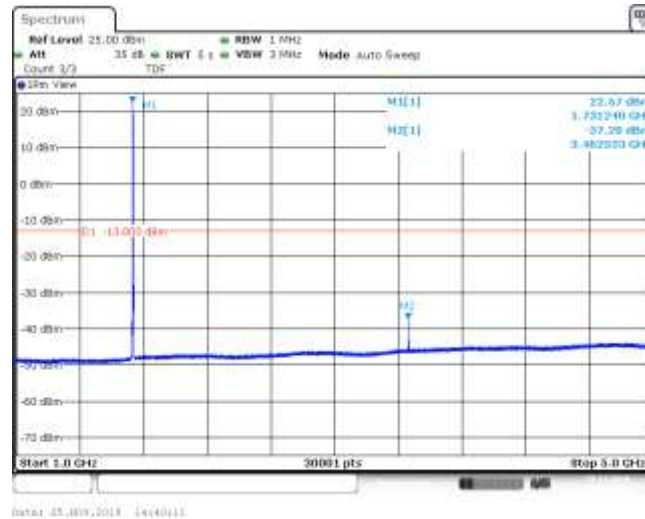
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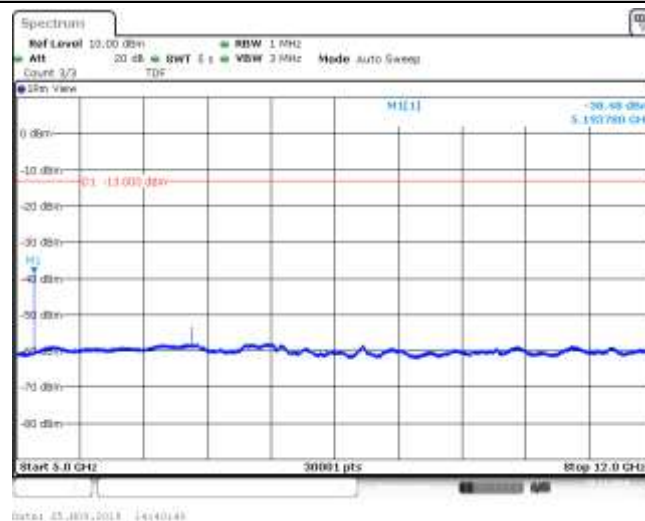
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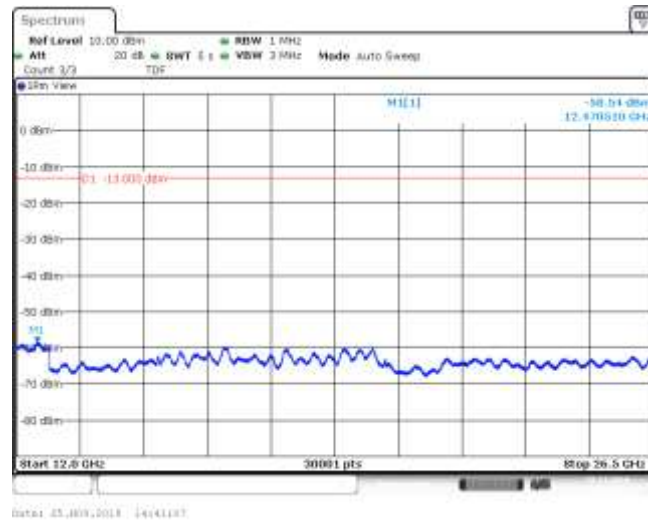
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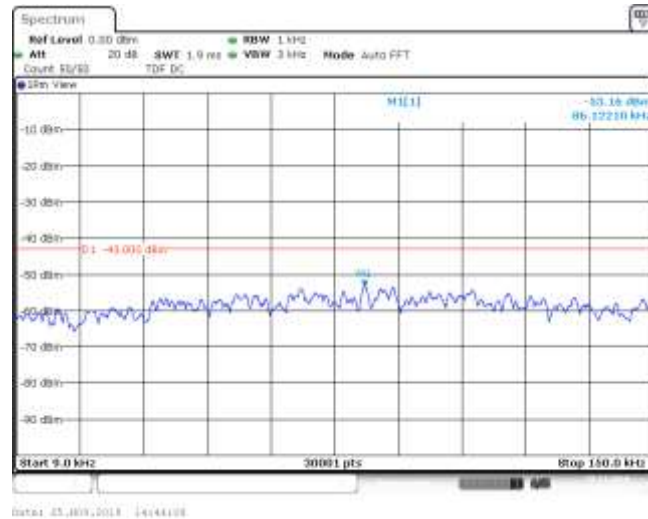
Tel.: (86)755-27521059

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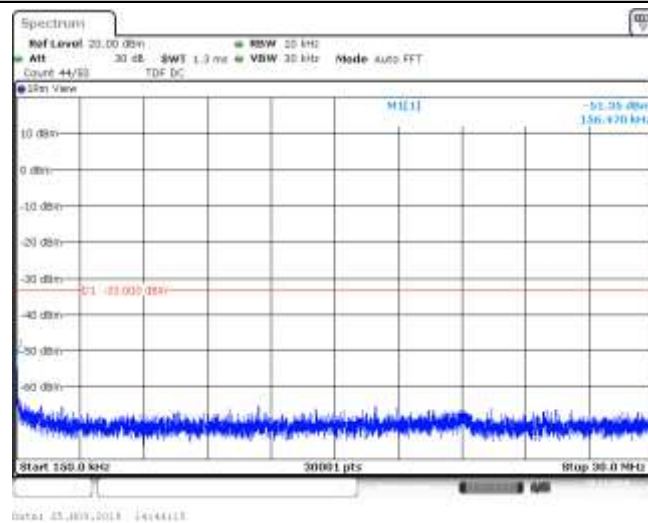
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Band4_3MHz_QPSK_20385_1RB#0



Band4_3MHz_QPSK_20385_1RB#0



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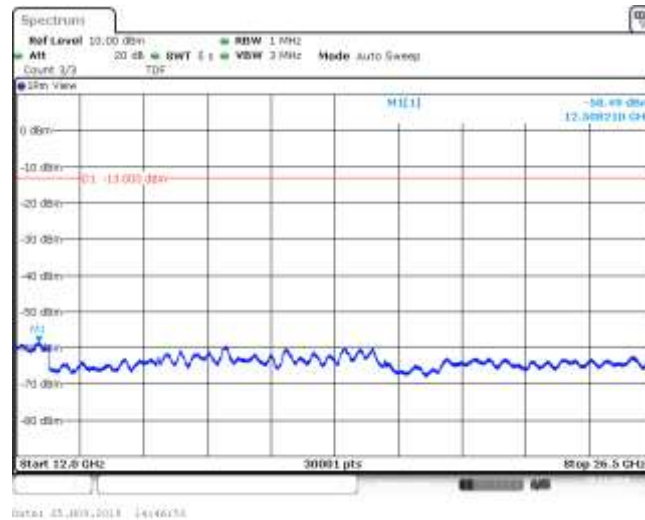
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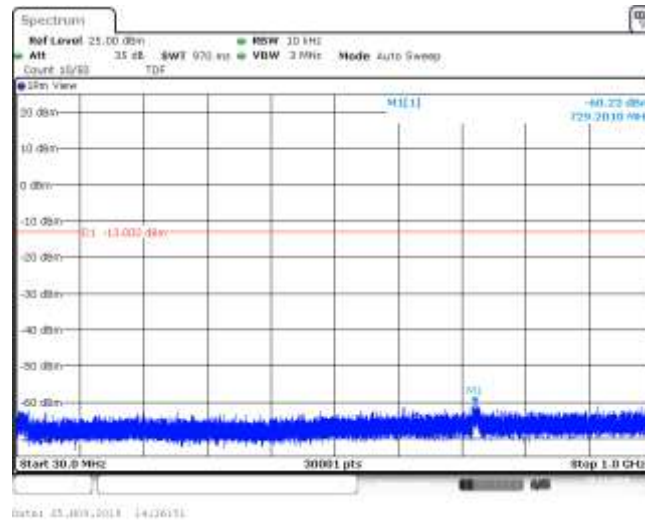
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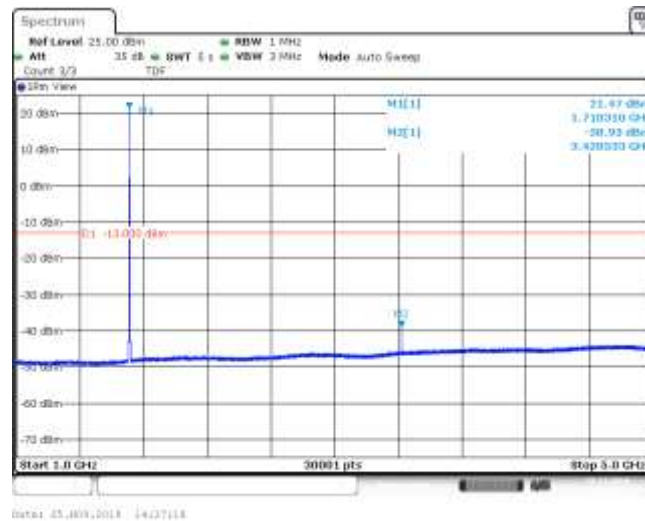


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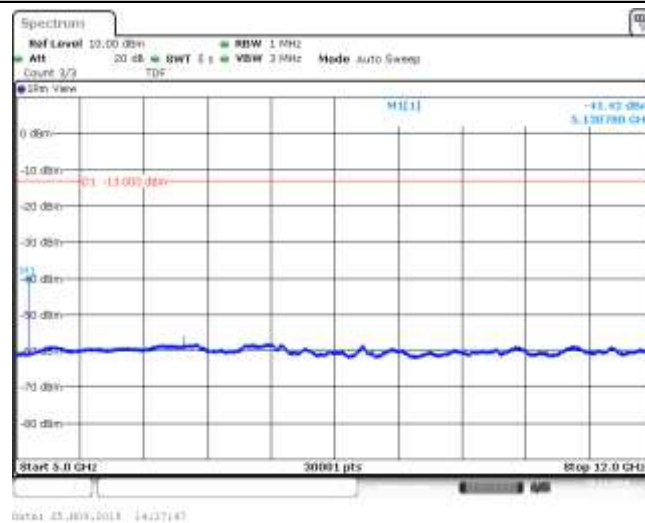




Band4_3MHz_16QAM_19965_1RB#0



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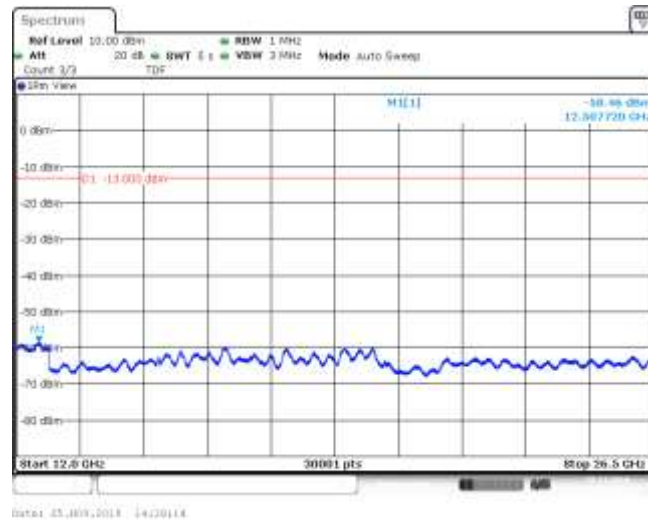
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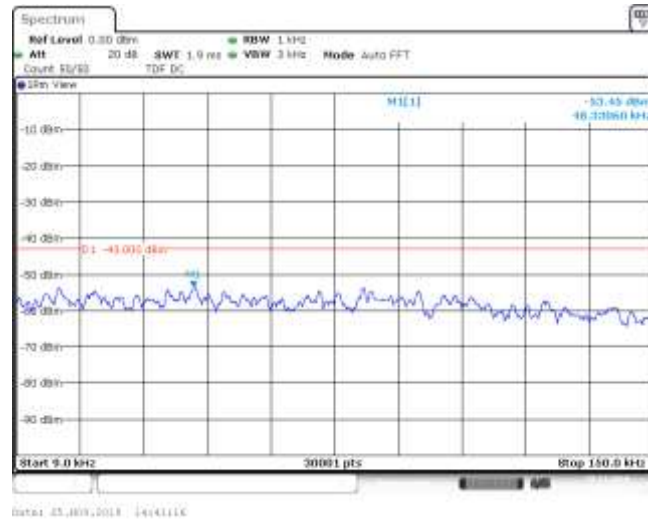
Tel.: (86)755-27521059

Fax: (86)755-27521011

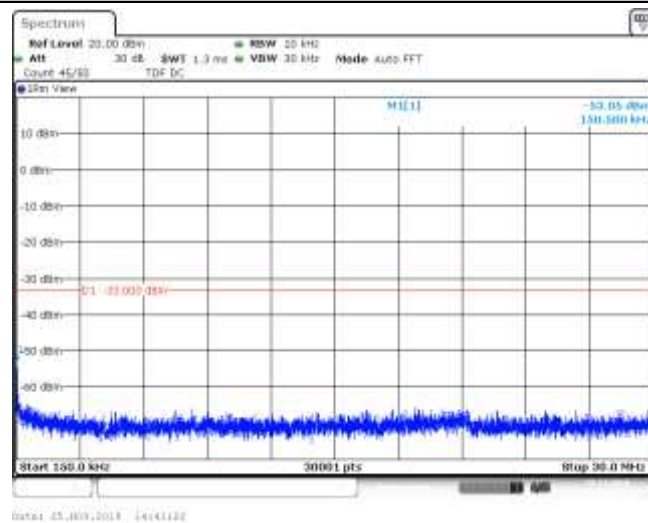
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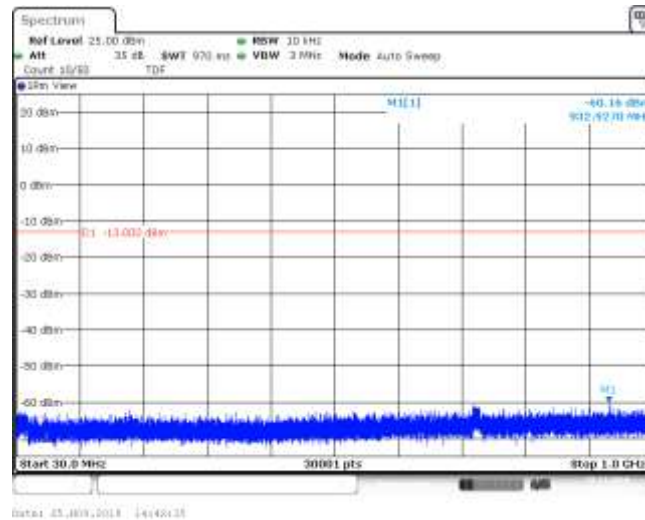
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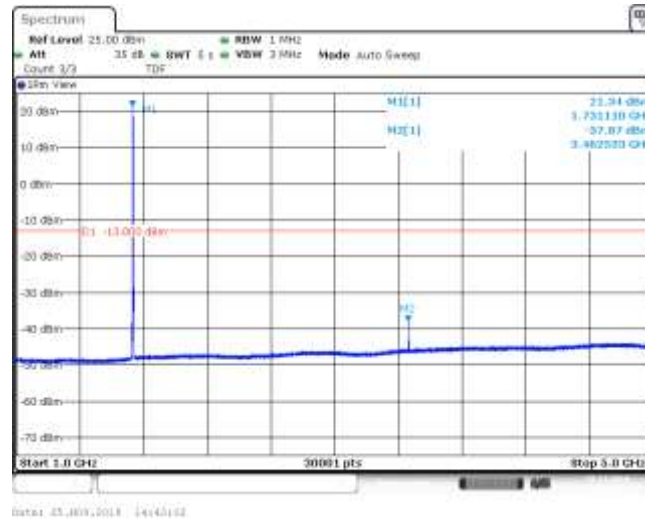
Tel.: (86)755-27521059

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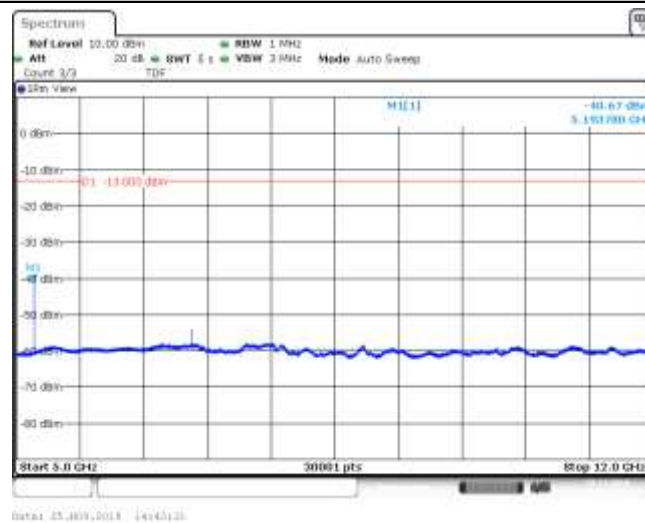
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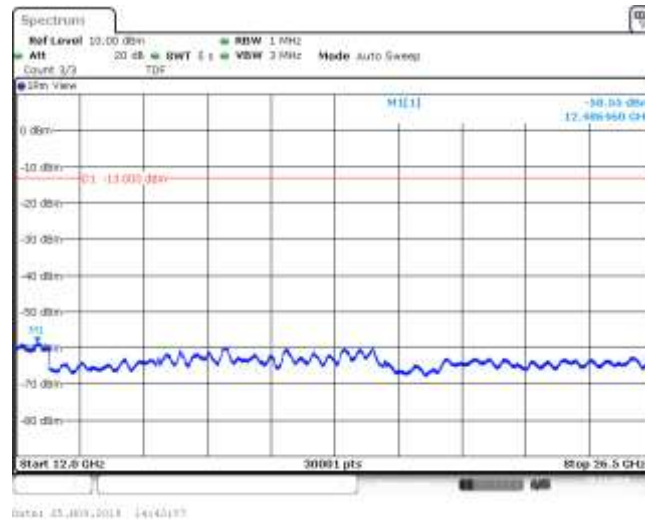
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

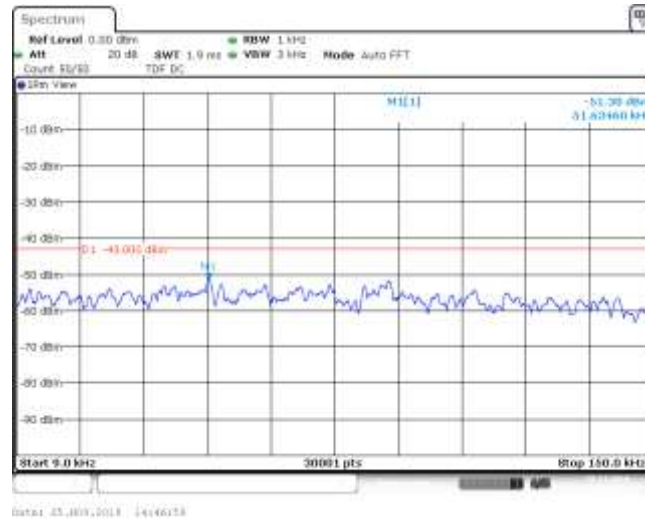
Tel.: (86)755-27521059

Fax: (86)755-27521011

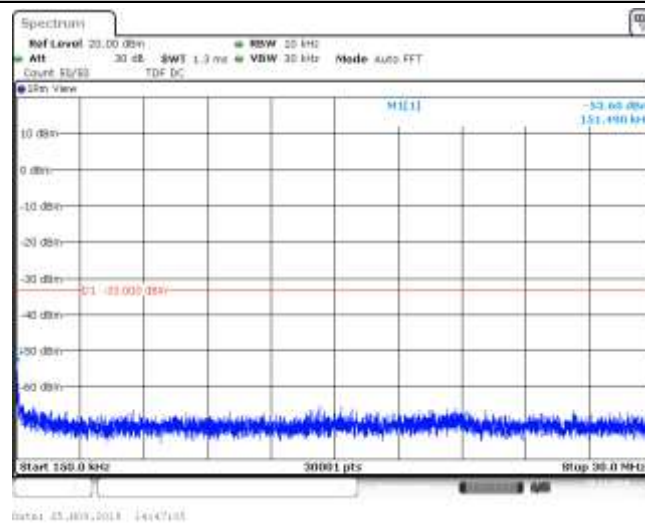
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Band4_3MHz_16QAM_20385_1RB#0



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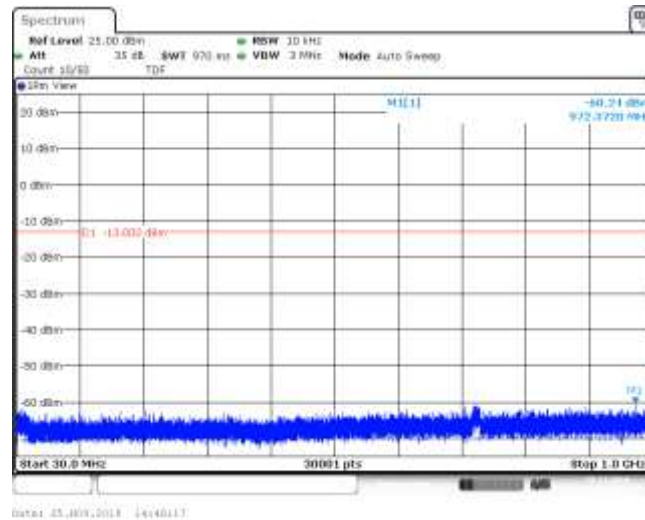
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

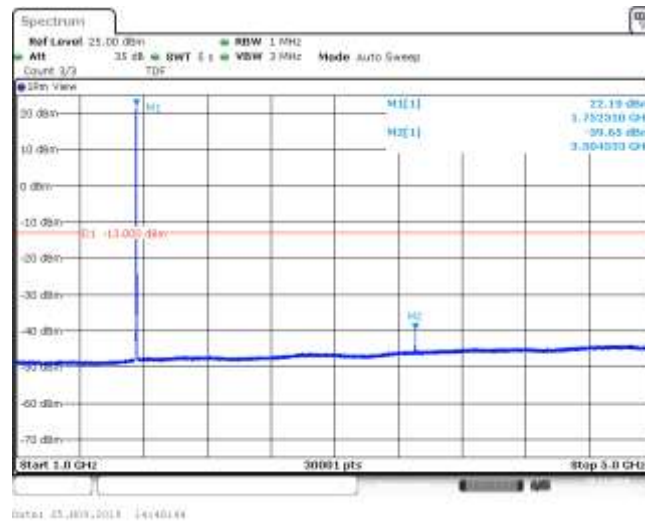
Tel.: (86)755-27521059

Fax: (86)755-27521011

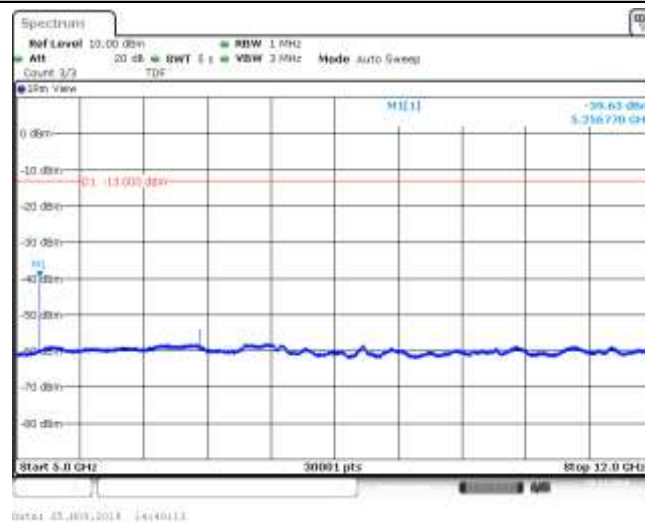
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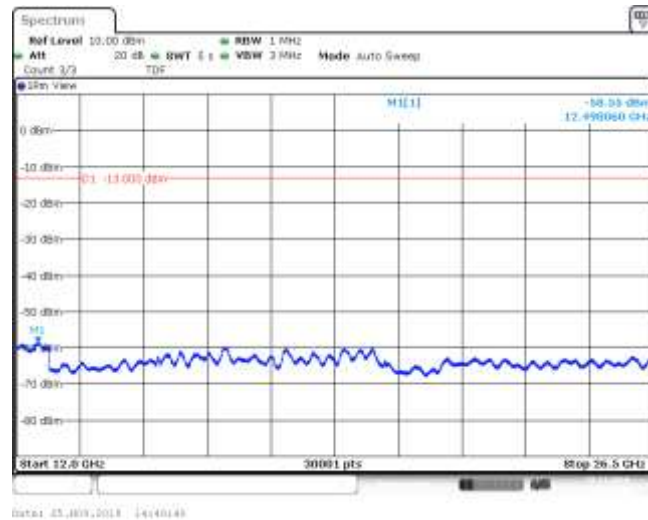
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

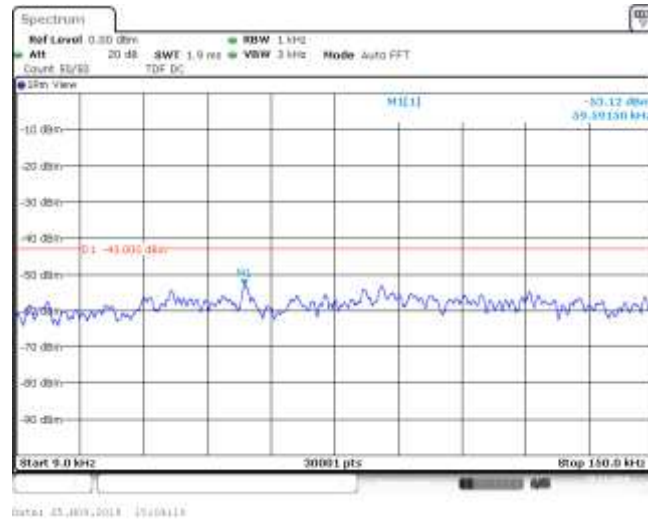
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Fax: (86)755-27521011

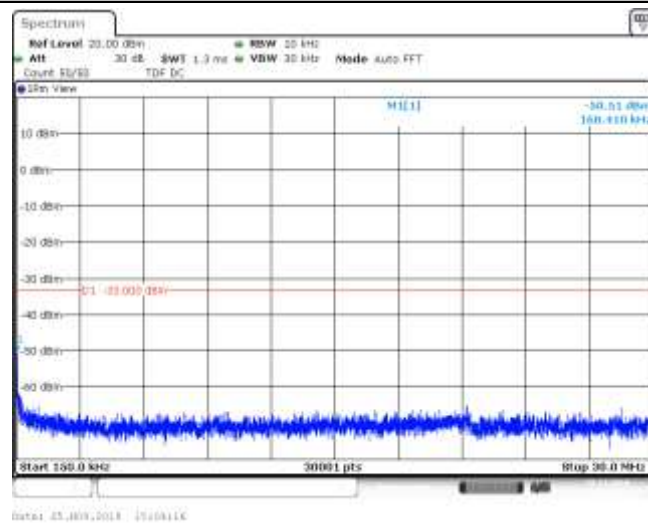
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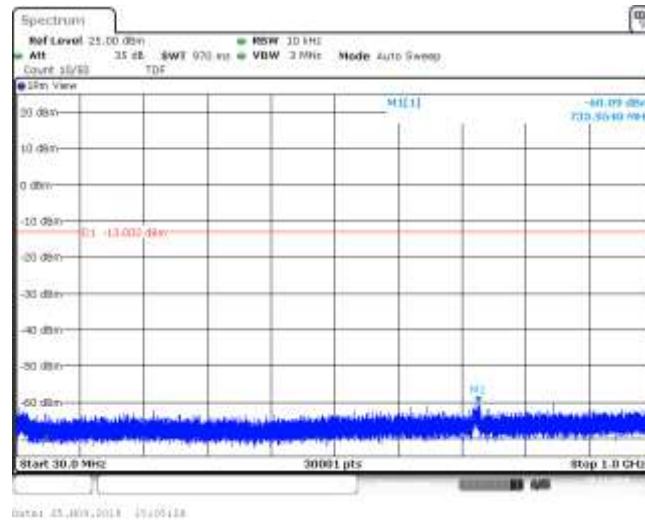
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

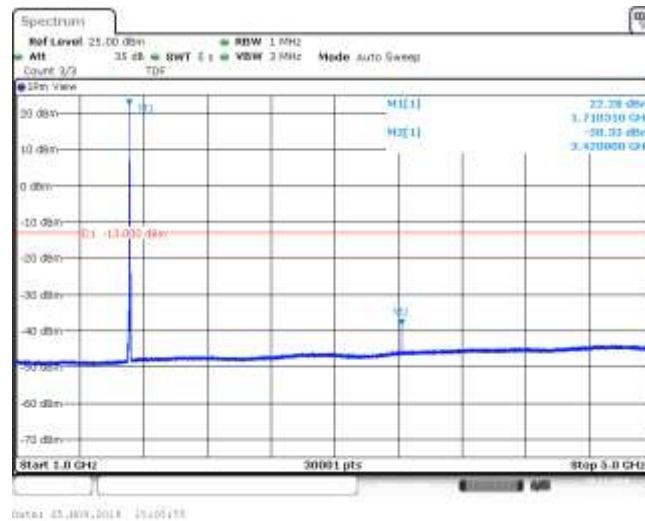
Tel.: (86)755-27521059

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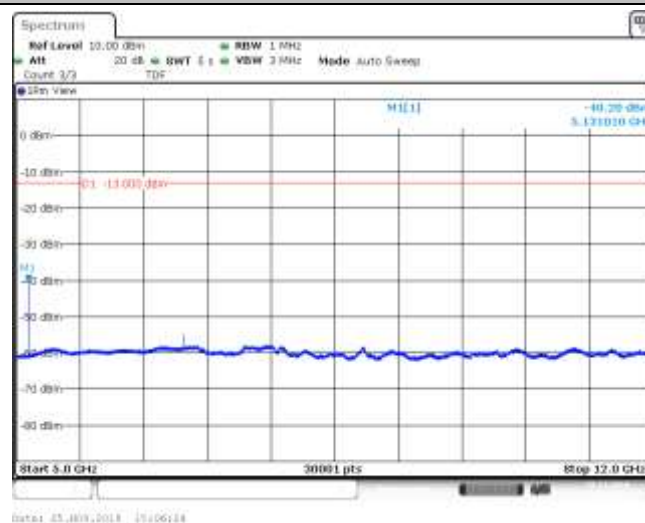
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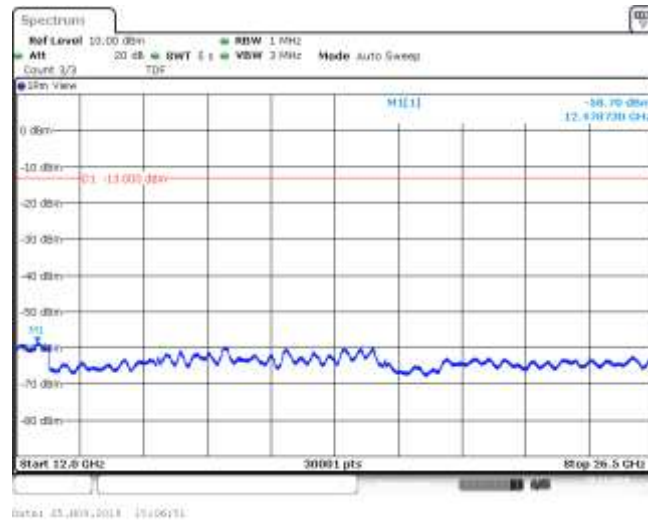
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

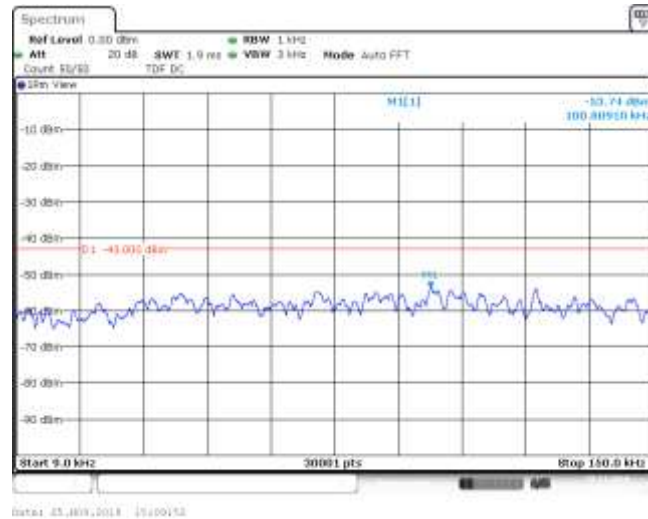
Tel.: (86)755-27521059

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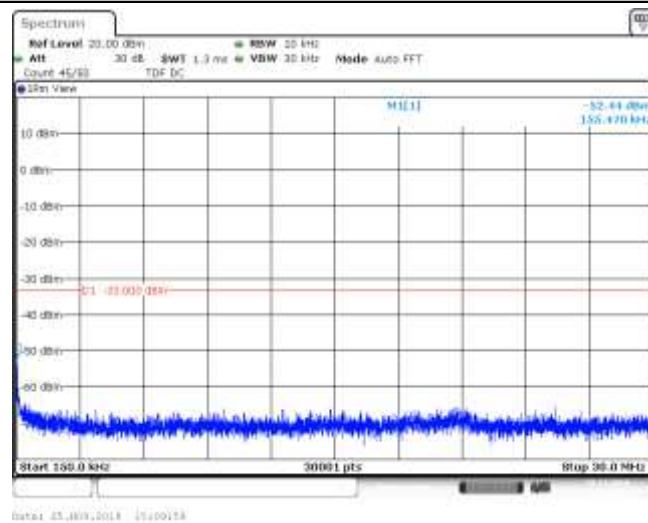
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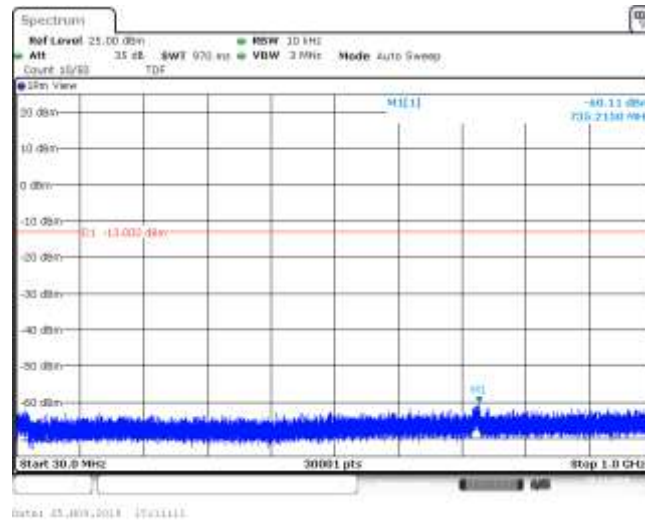
CTC Laboratories, Inc.

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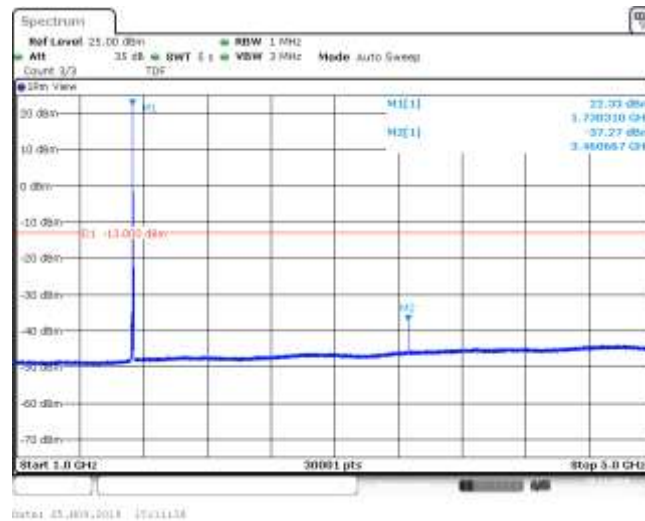
Tel.: (86)755-27521059

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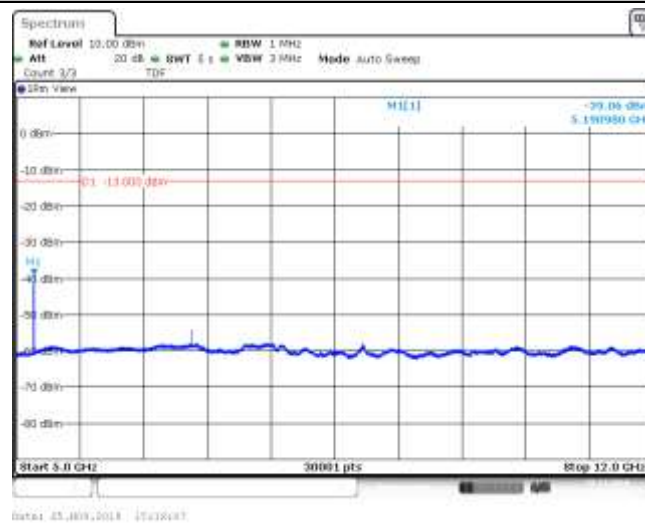
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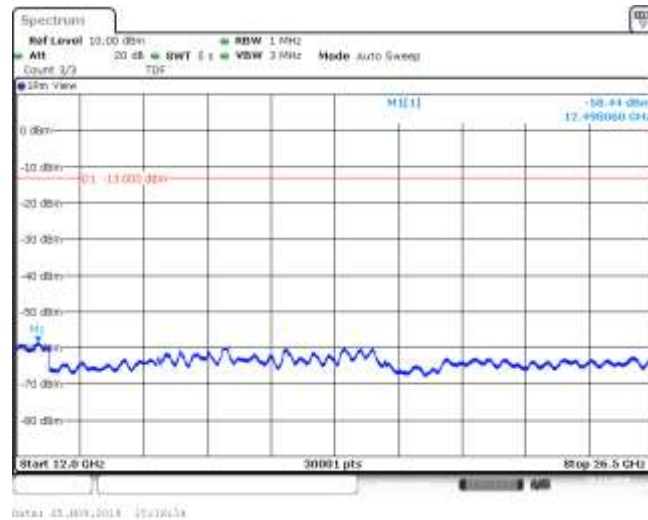
CTC Laboratories, Inc.

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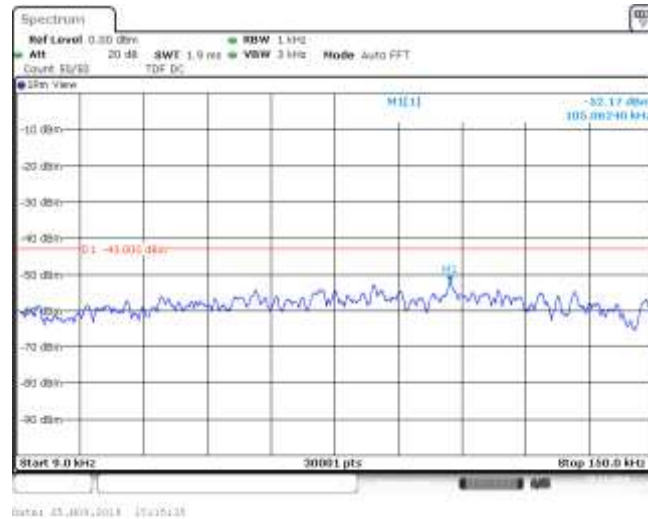
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Fax: (86)755-27521011

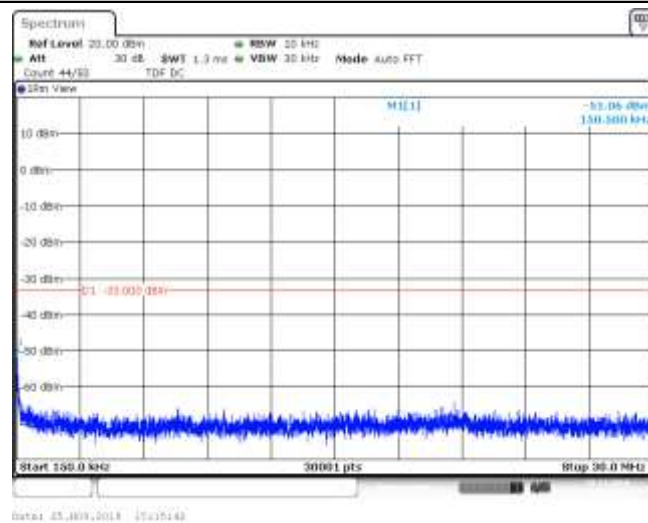
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Band4_5MHz_QPSK_20375_1RB#0



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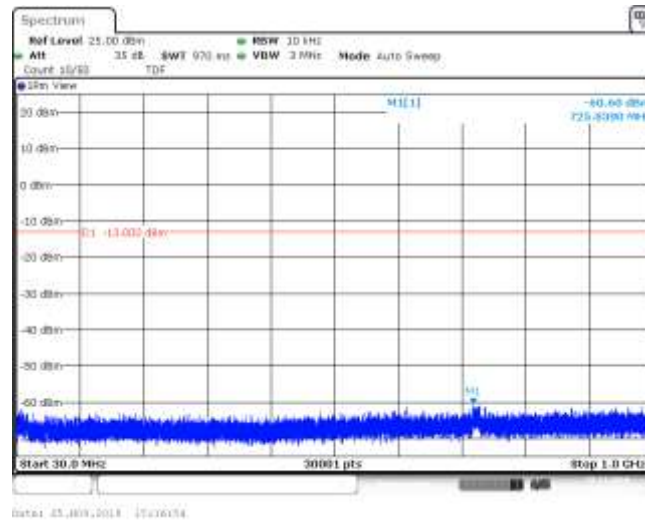
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

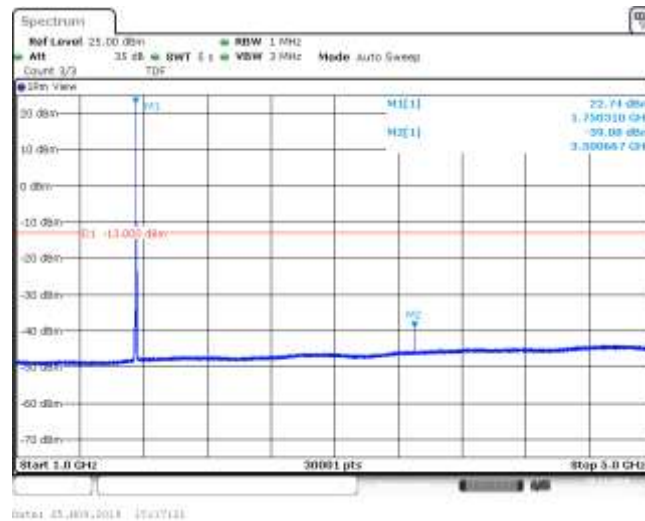
Tel.: (86)755-27521059

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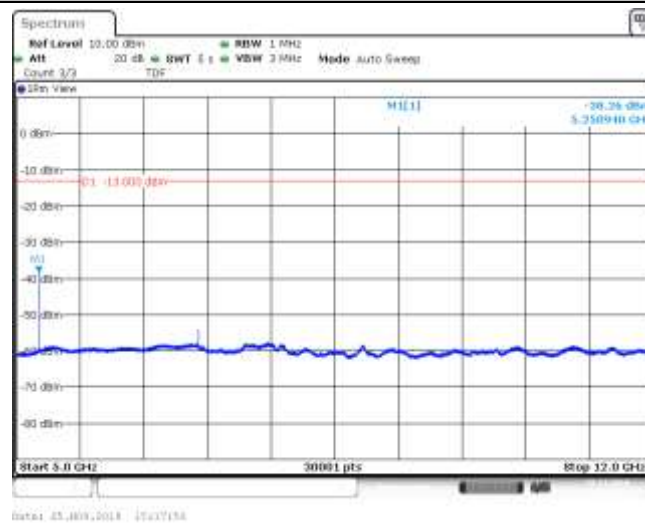
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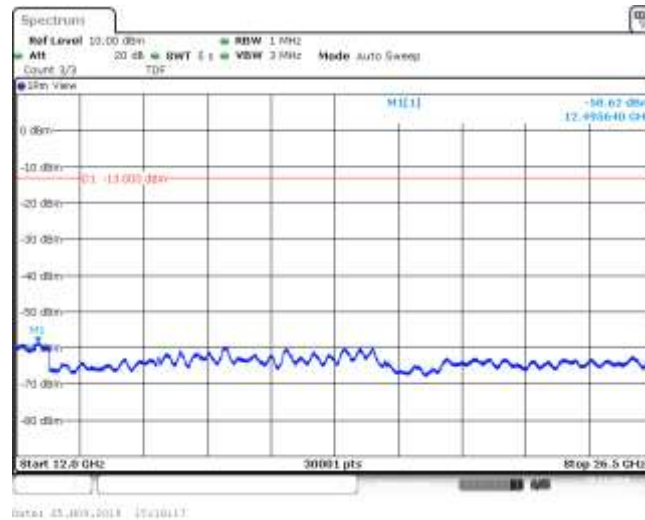
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

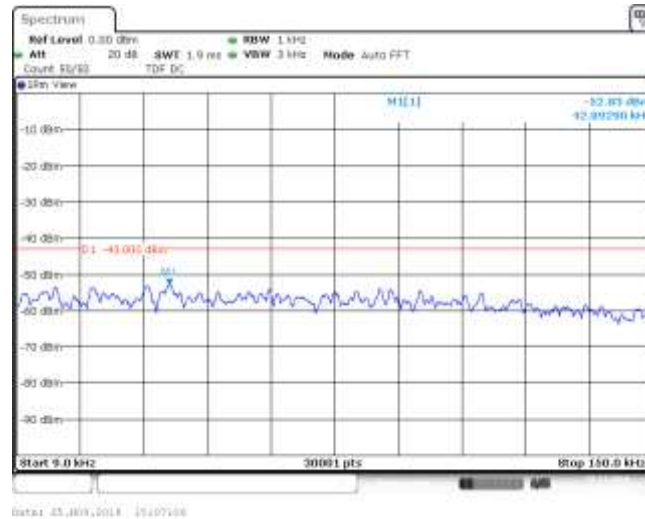
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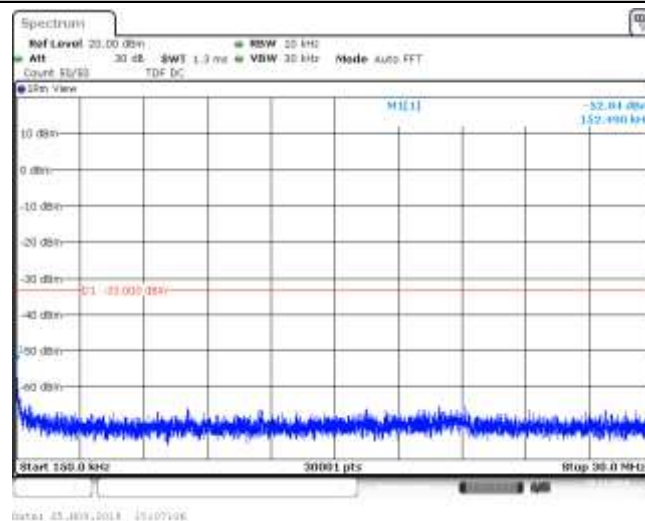
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Band4_5MHz_16QAM_19975_1RB#0



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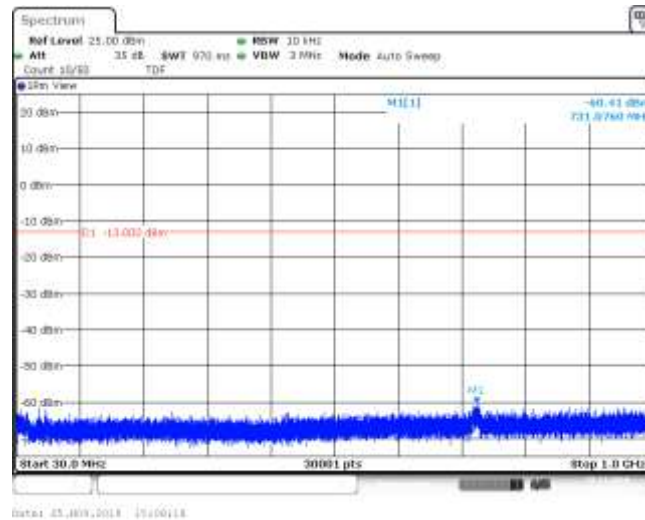
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

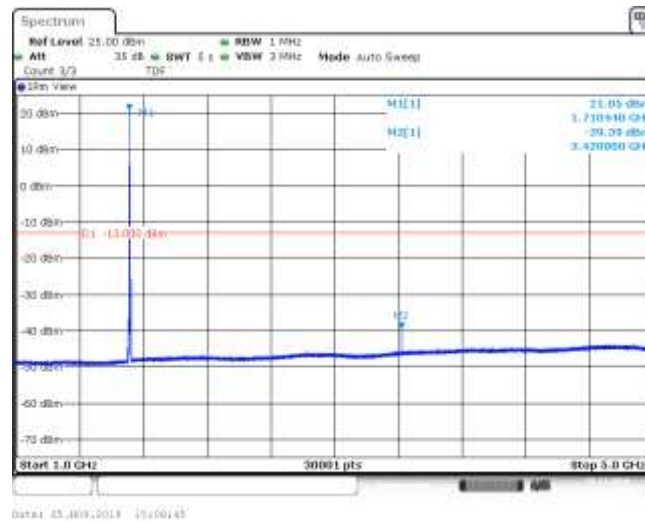
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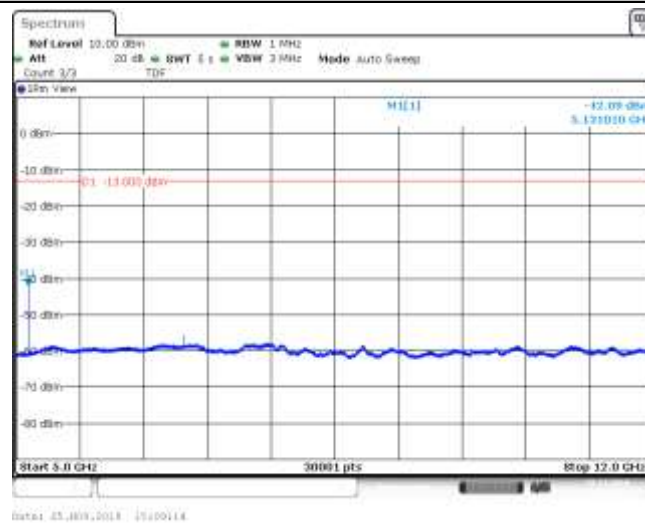
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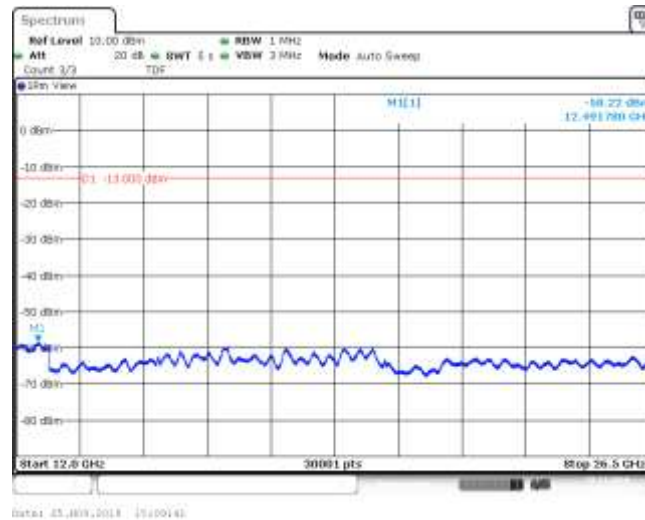
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

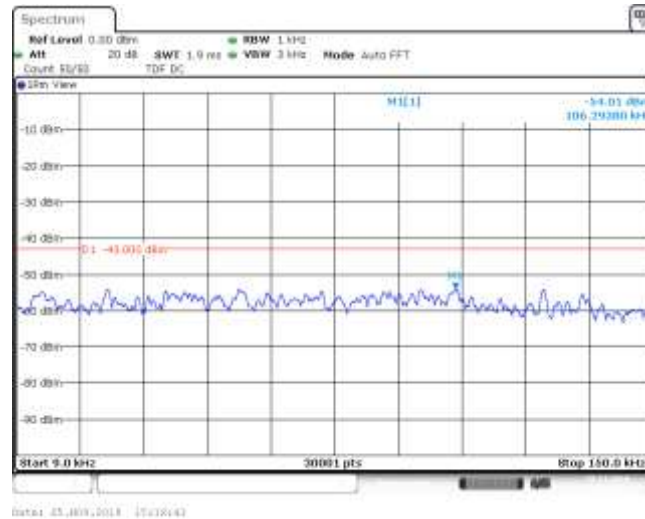
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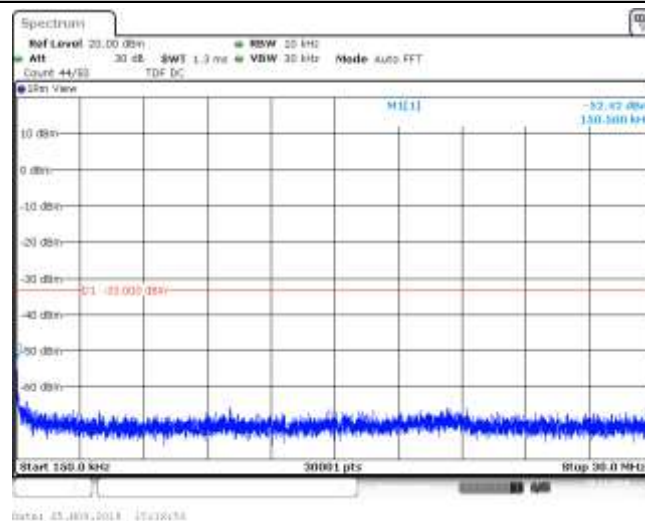
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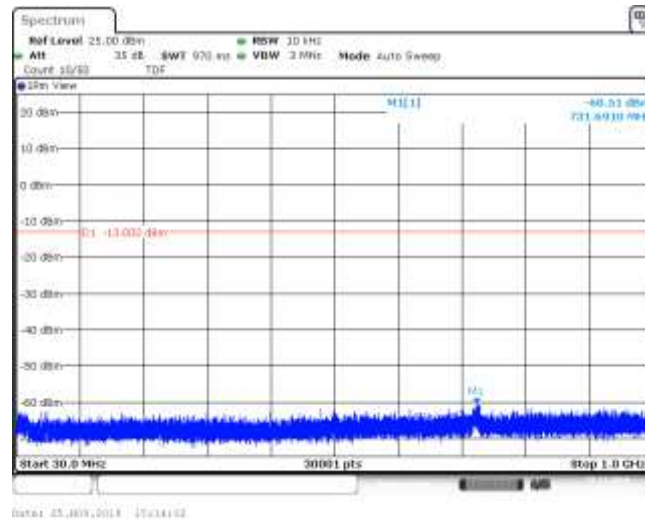
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

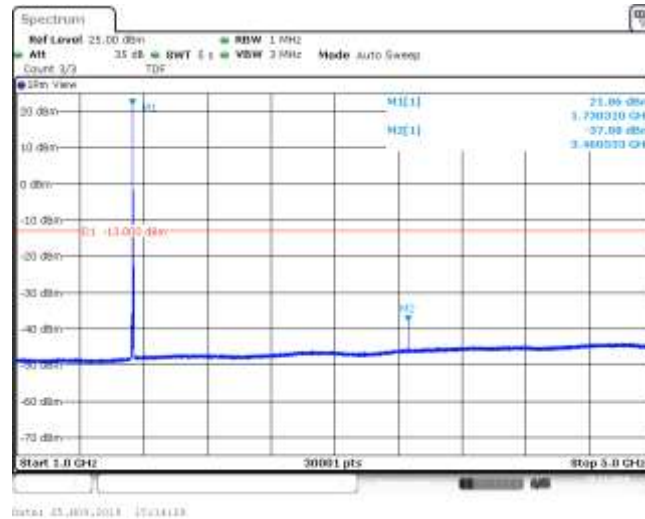
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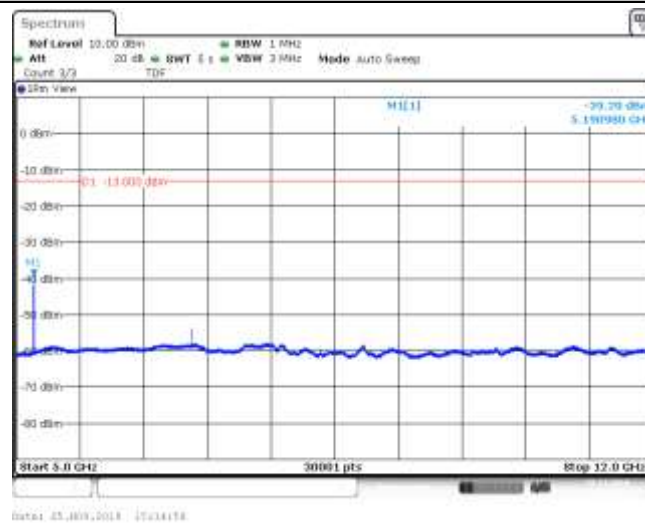
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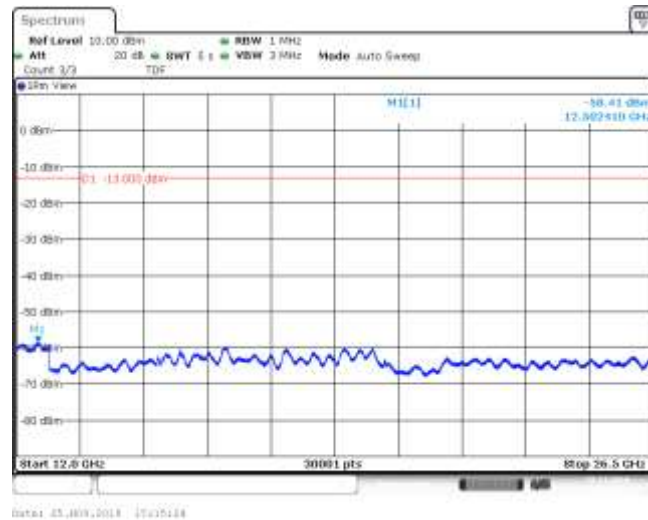
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

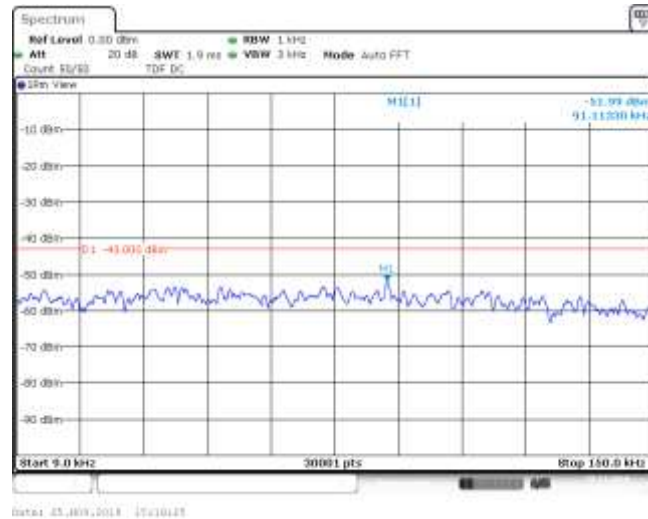
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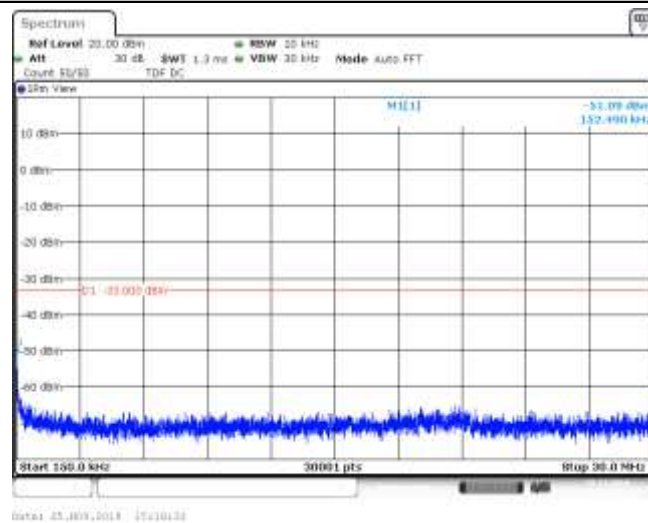
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Band4_5MHz_16QAM_20375_1RB#0



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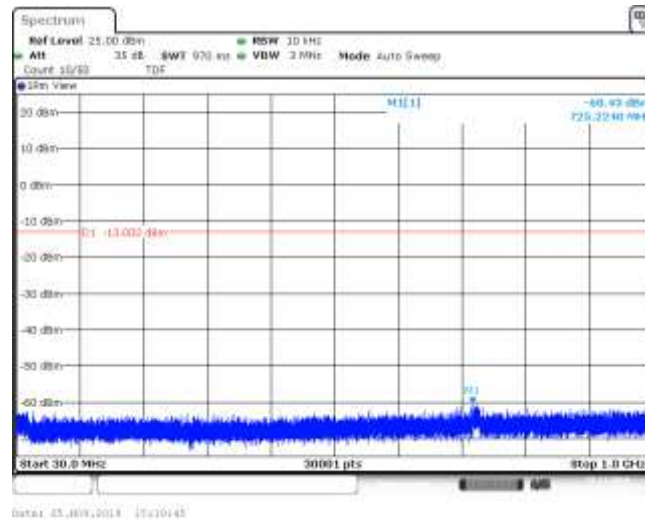
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

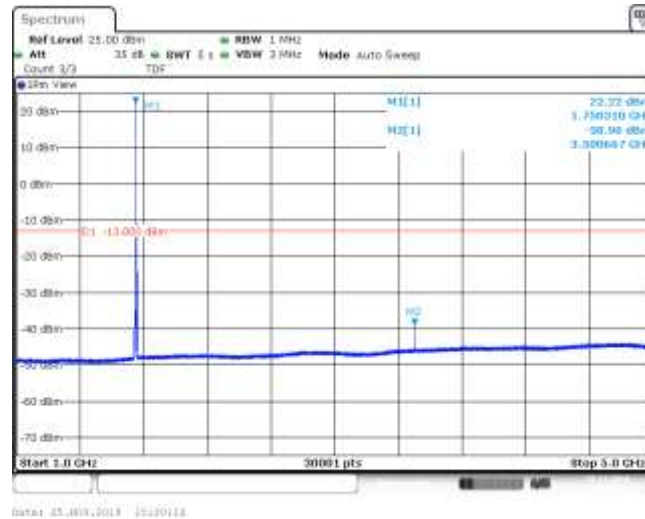
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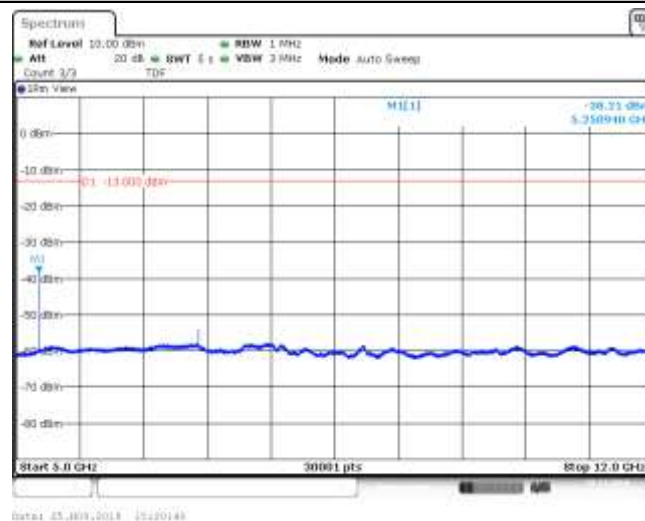
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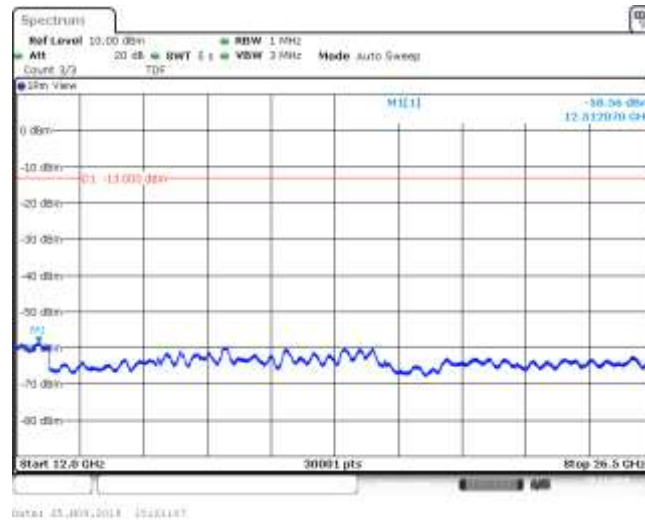
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

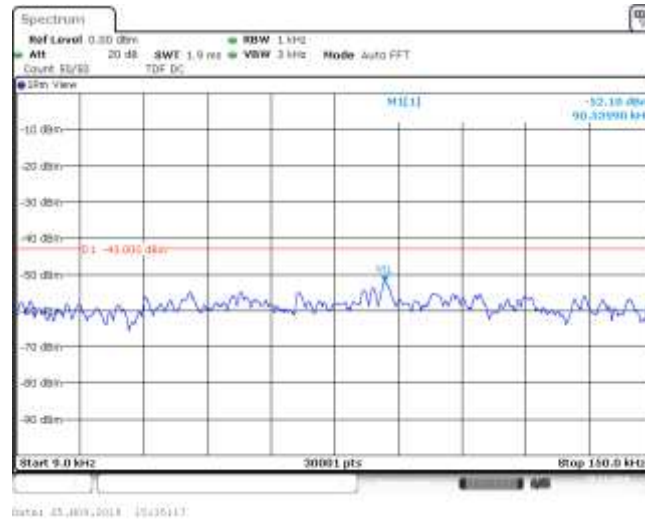
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Fax: (86)755-27521011

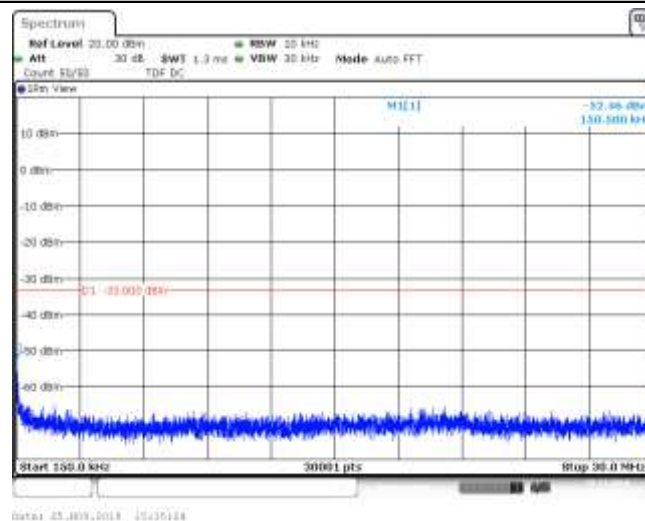
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Band4_10MHz_QPSK_20000_1RB#0



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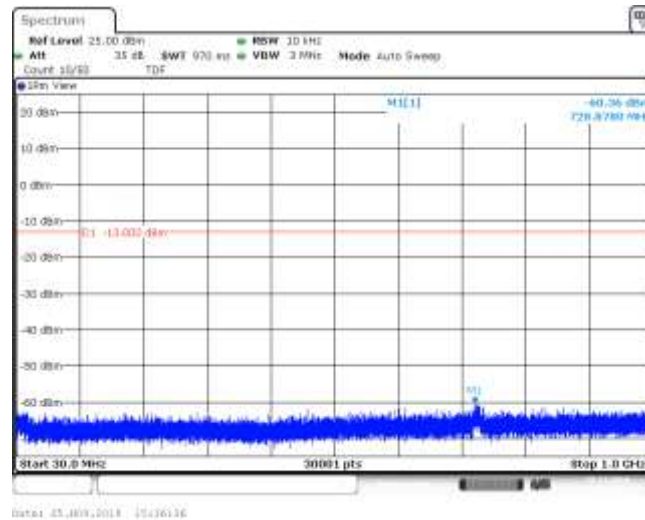
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

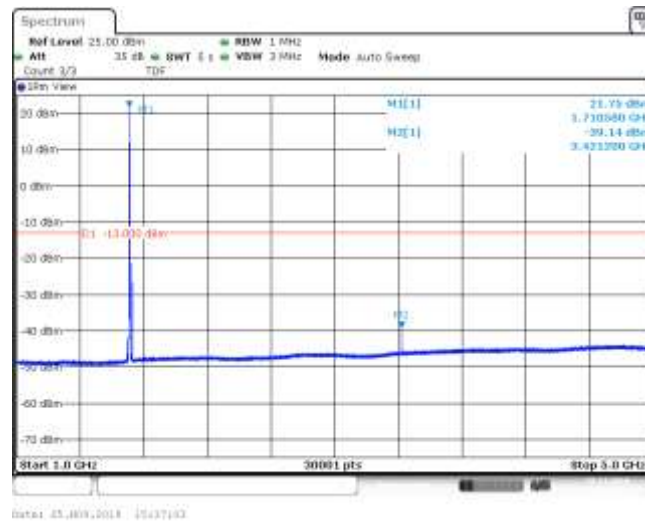
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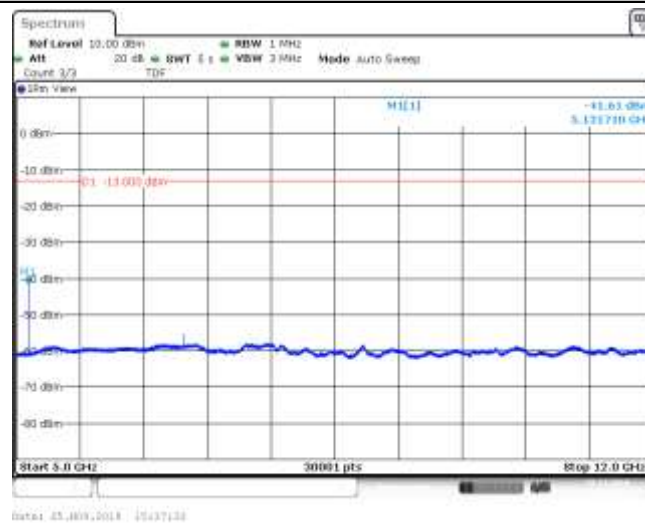
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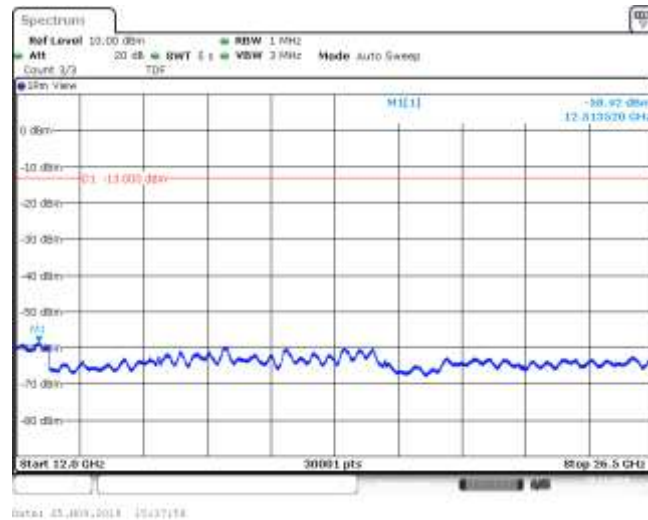
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

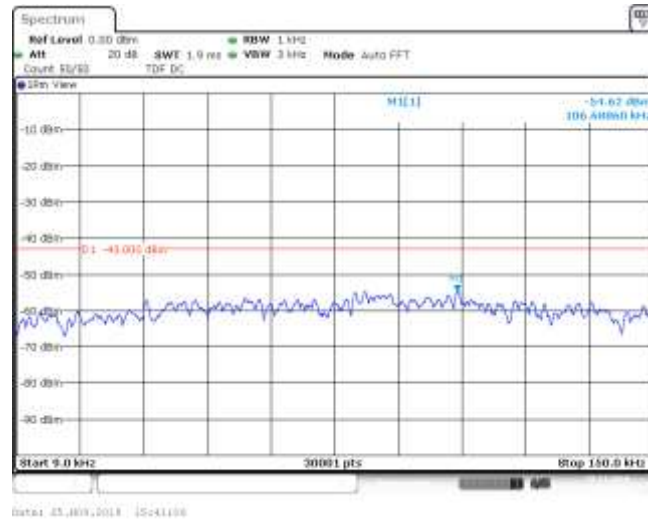
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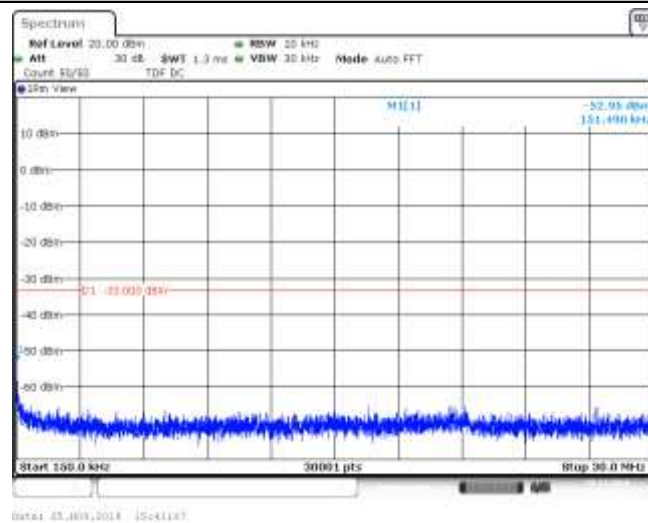
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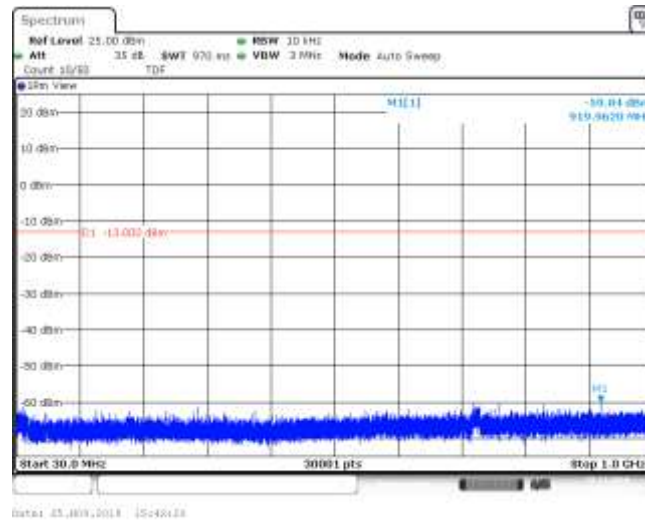
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

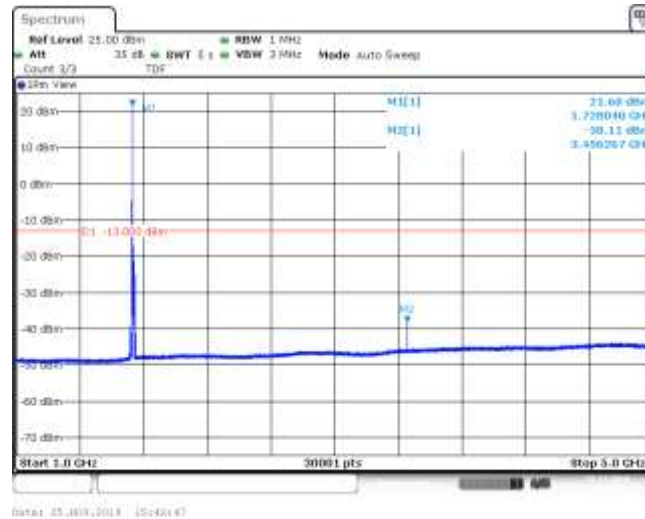
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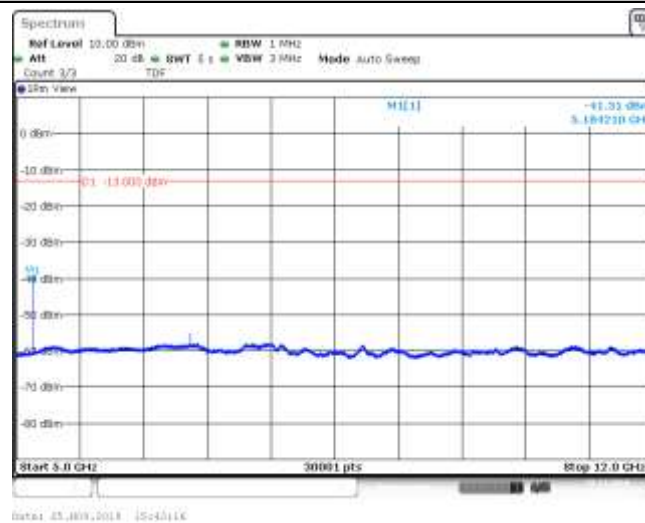
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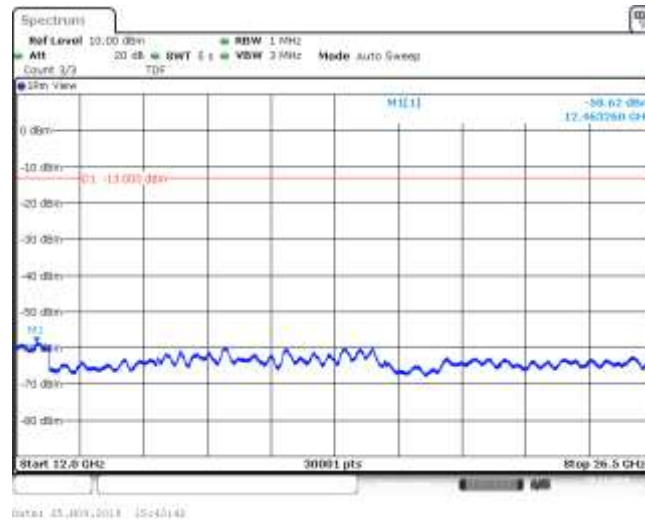
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

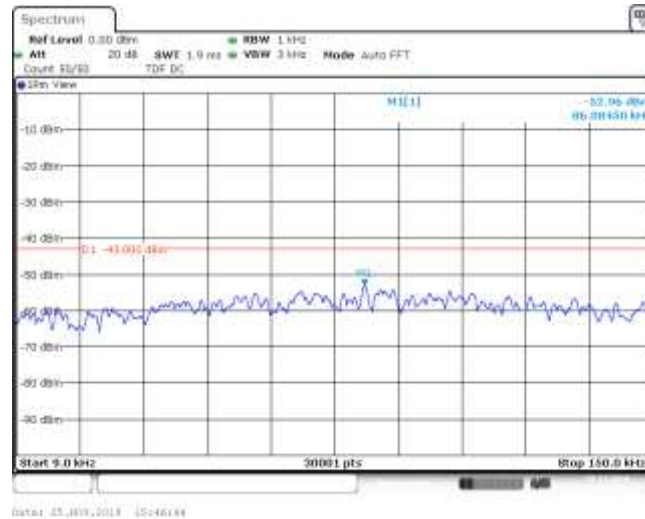
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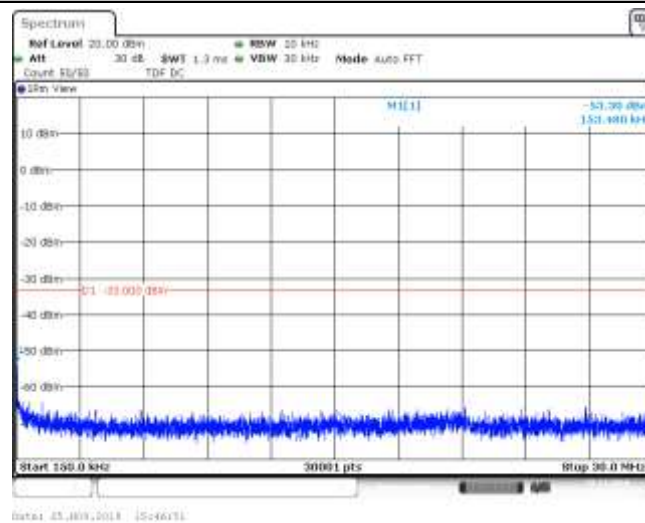
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Band4_10MHz_QPSK_20350_1RB#0



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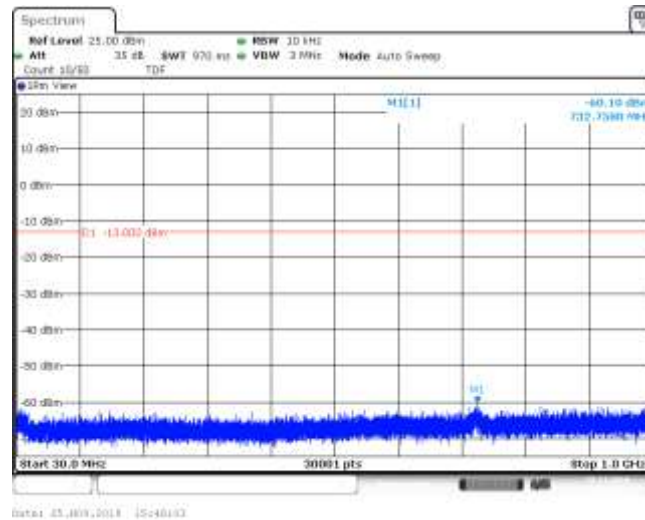
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

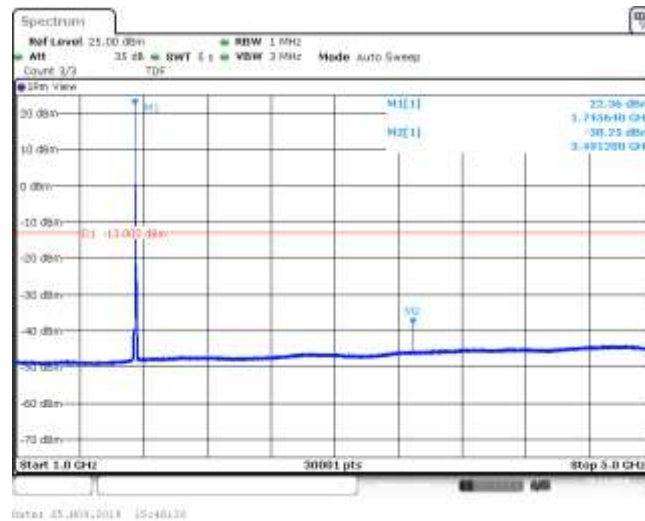
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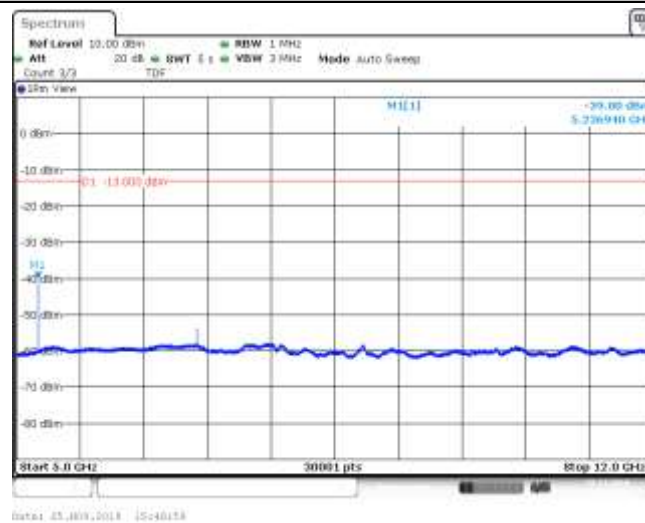
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Band4_10MHz_QPSK_20350_1RB#0



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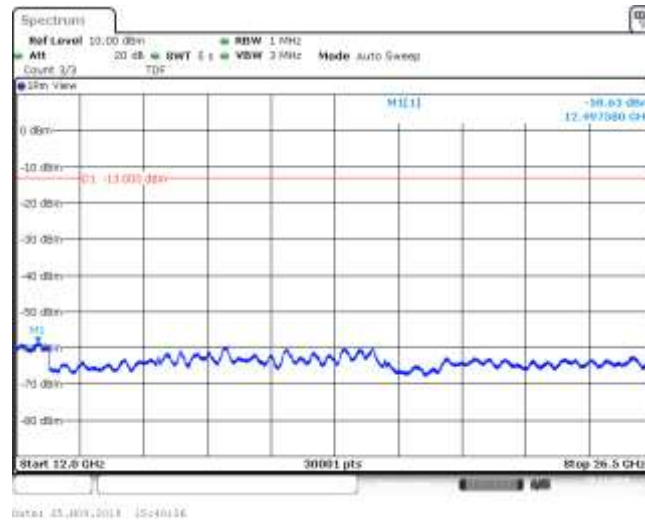
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

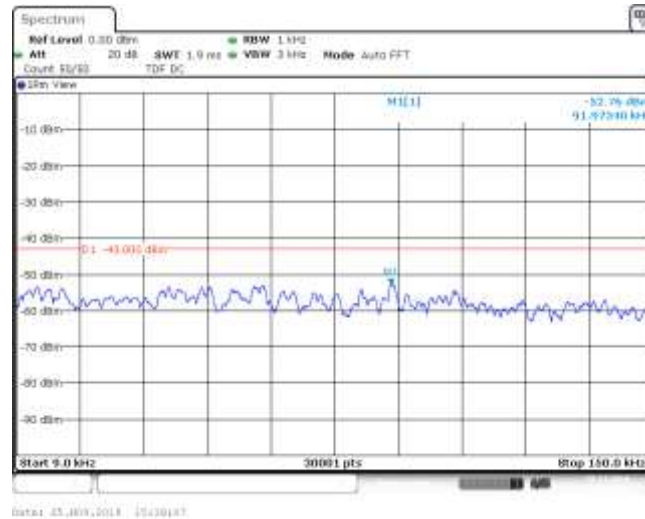
Tel.: (86)755-27521059

Fax: (86)755-27521011

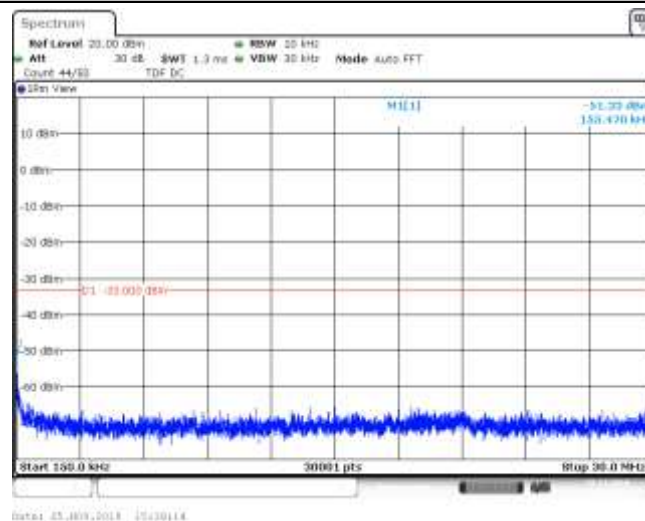
Http://www.sz-ctc.org.cn



Band4_10MHz_16QAM_20000_1RB#0



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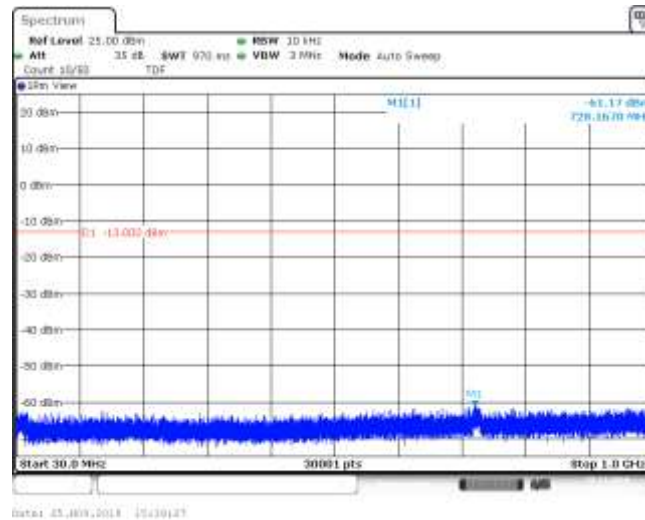
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

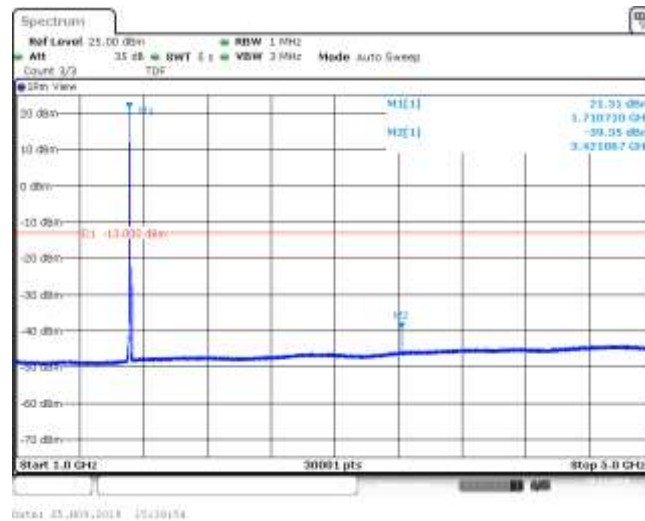
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Fax: (86)755-27521011

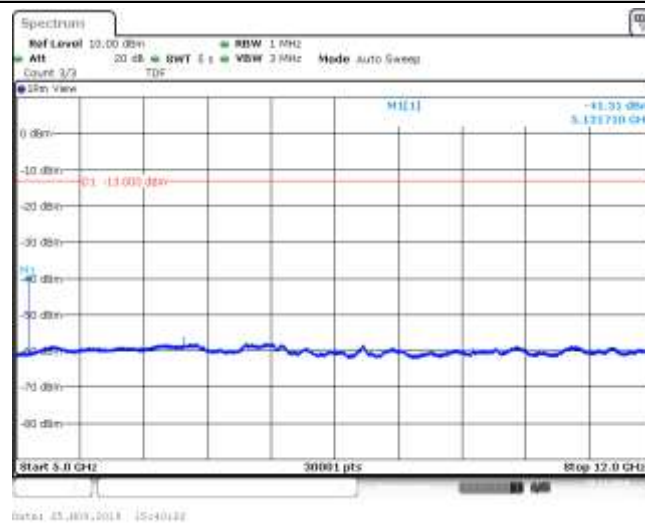
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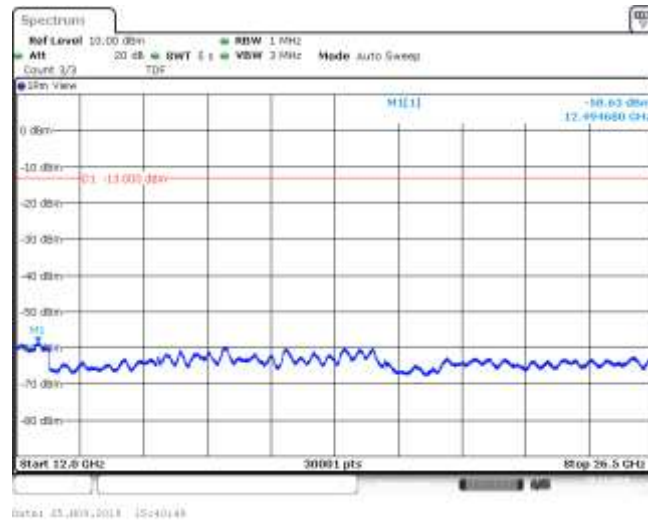
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

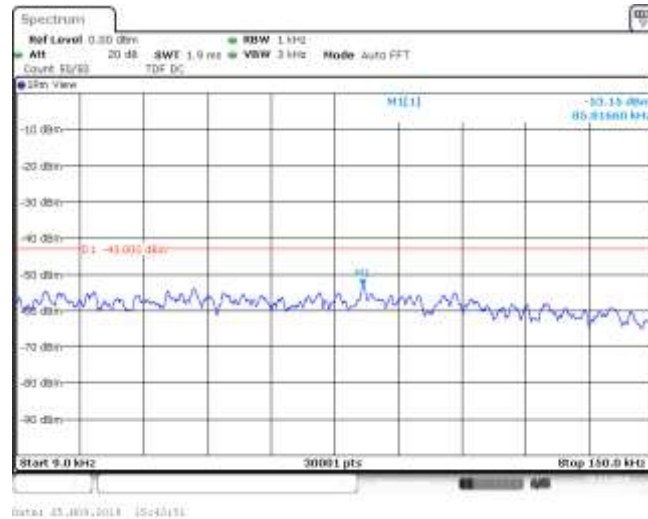
Tel.: (86)755-27521059

Fax: (86)755-27521011

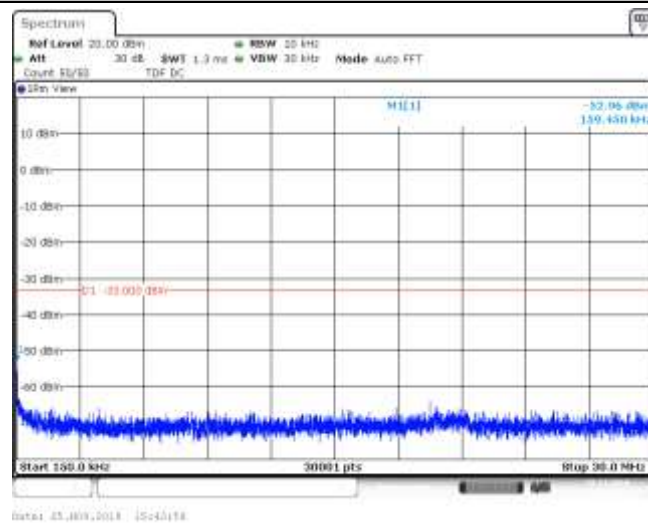
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Band4_10MHz_16QAM_20175_1RB#0



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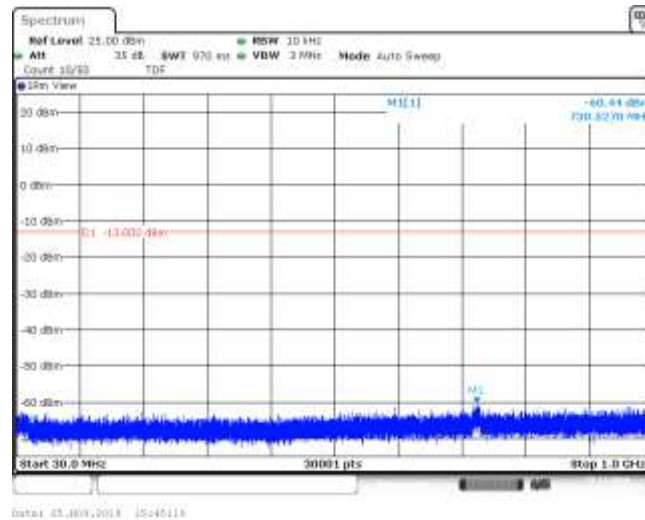
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

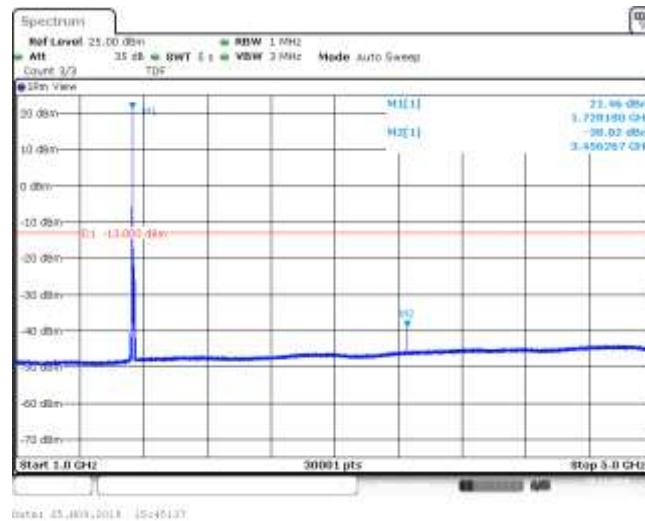
Tel.: (86)755-27521059

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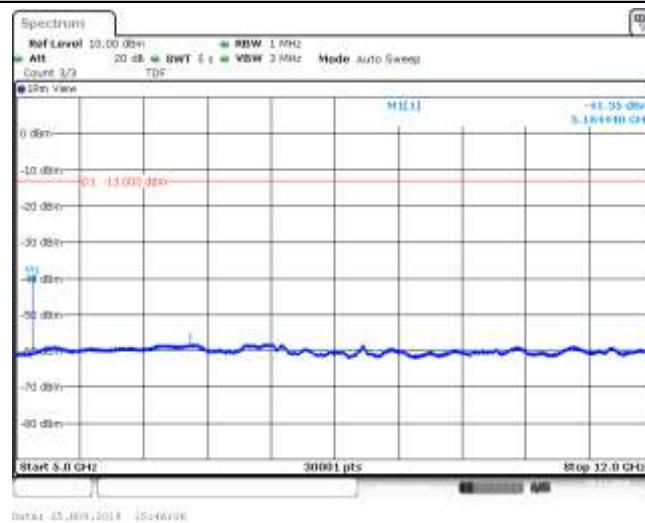
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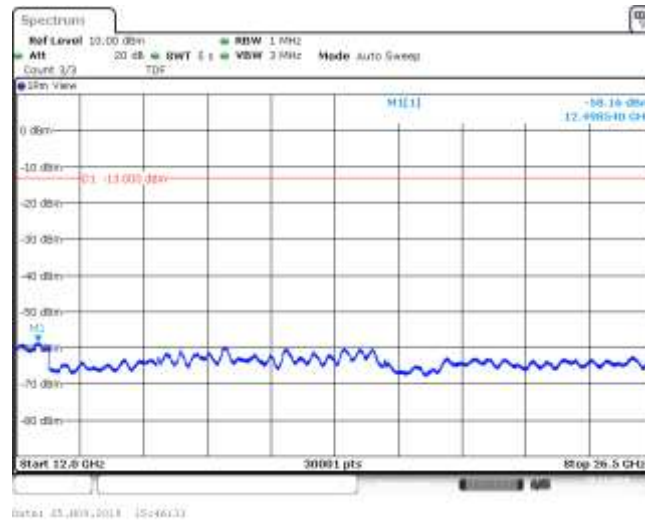
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

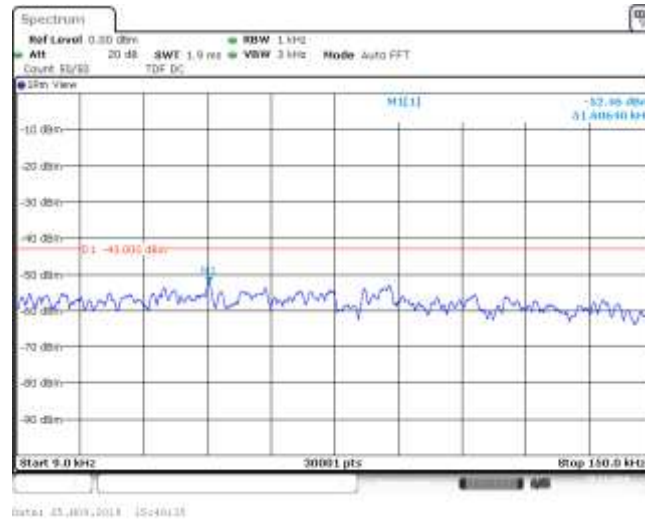
Tel.: (86)755-27521059

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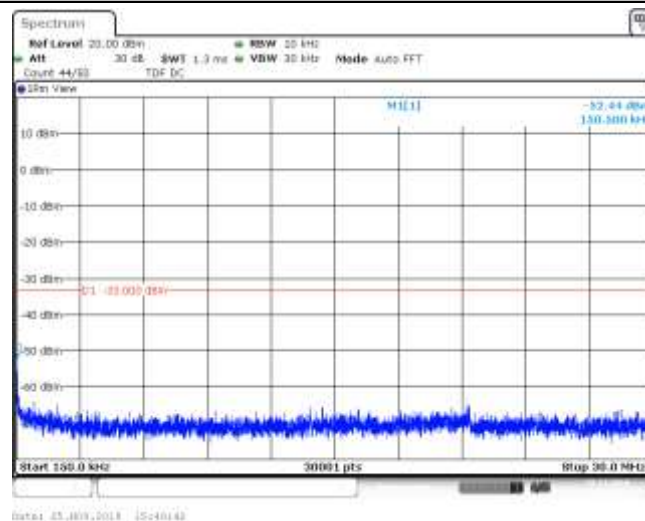
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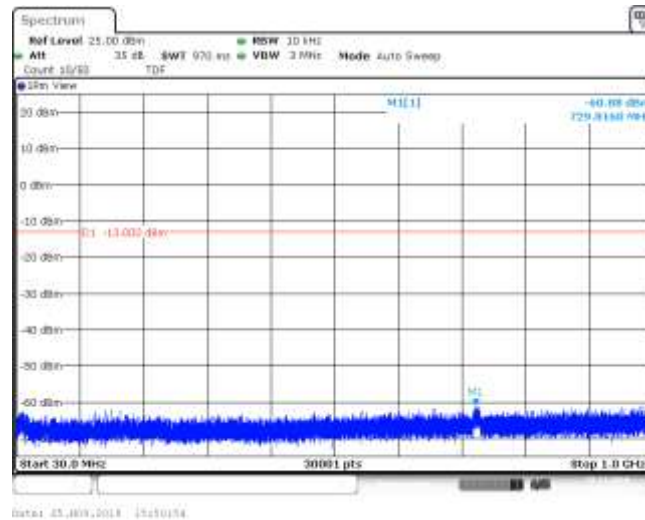
CTC Laboratories, Inc.

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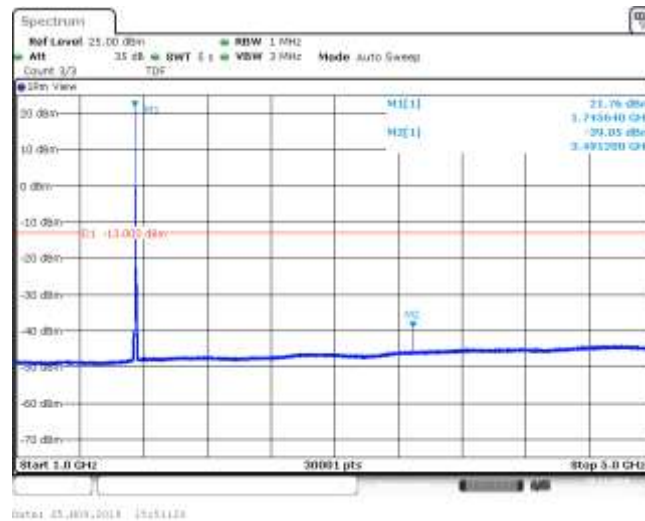
Tel.: (86)755-27521059

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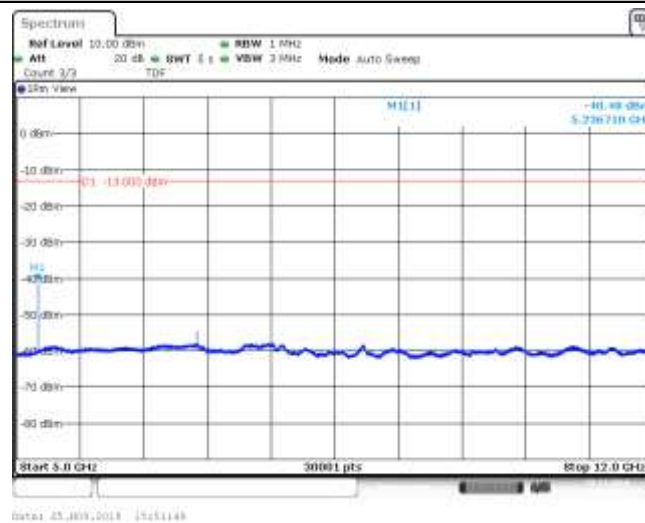
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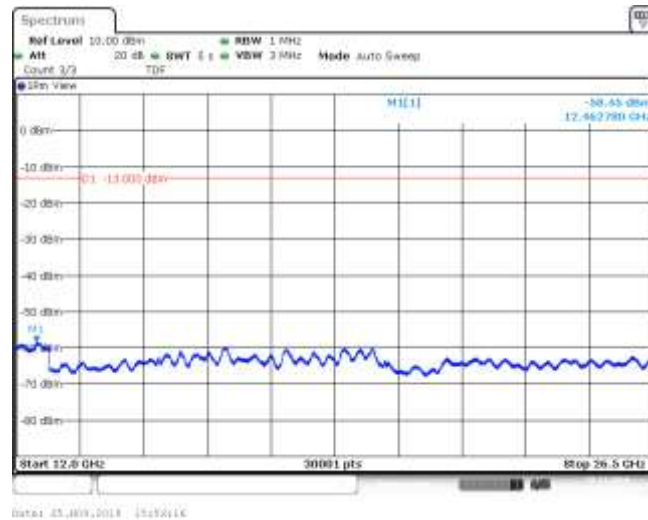
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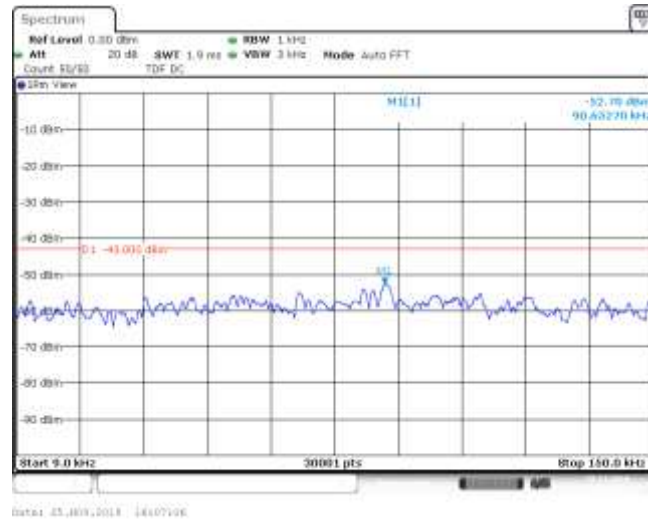
Tel.: (86)755-27521059

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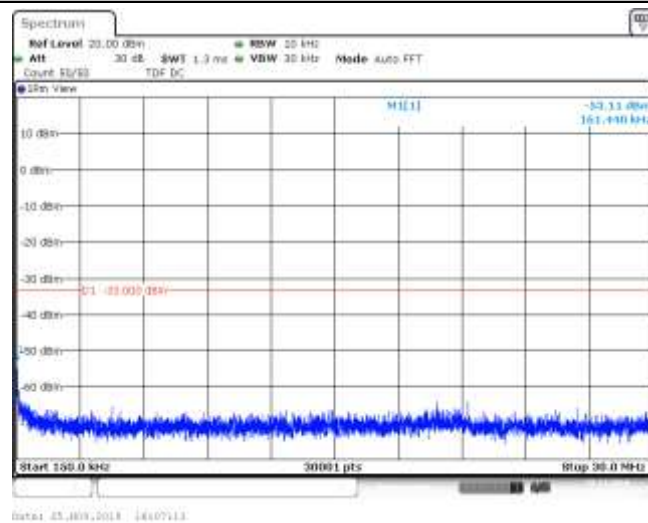
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Band4_15MHz_QPSK_20025_1RB#0



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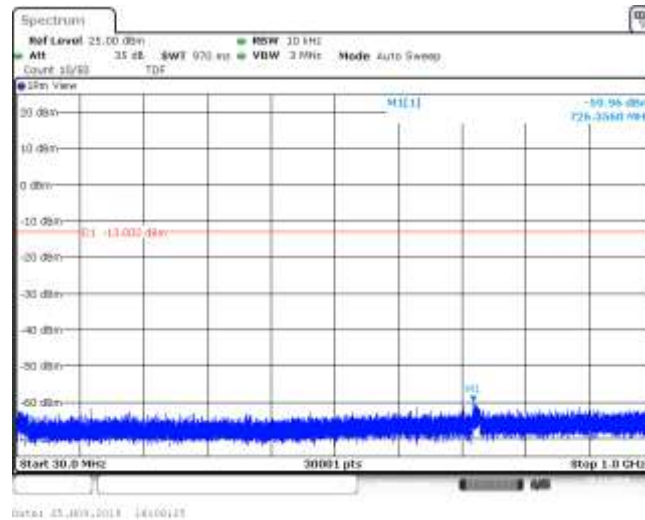
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

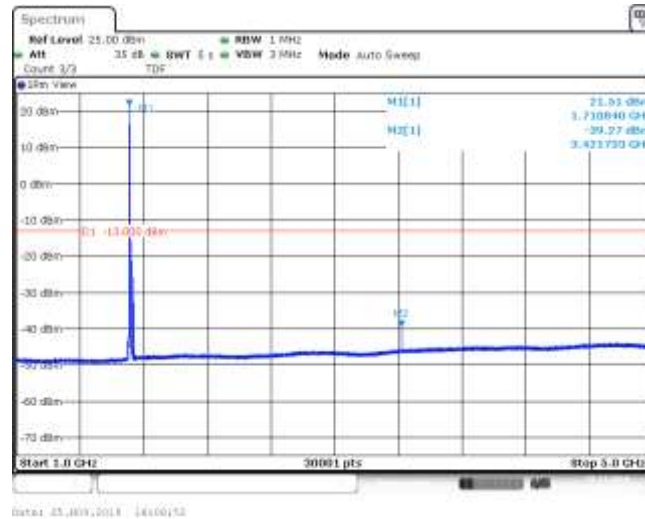
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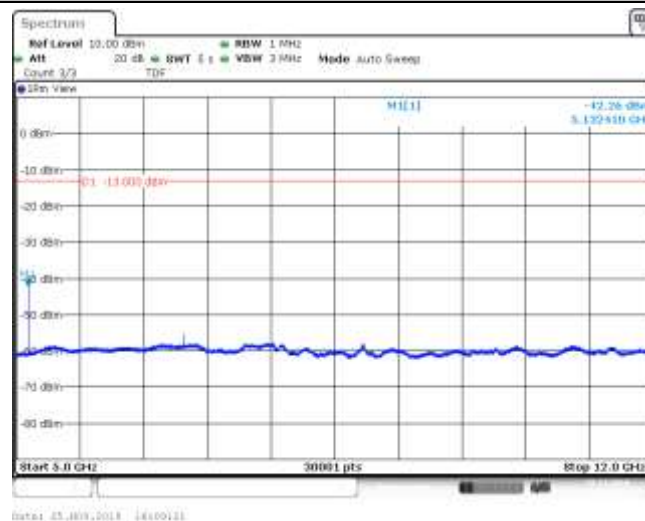
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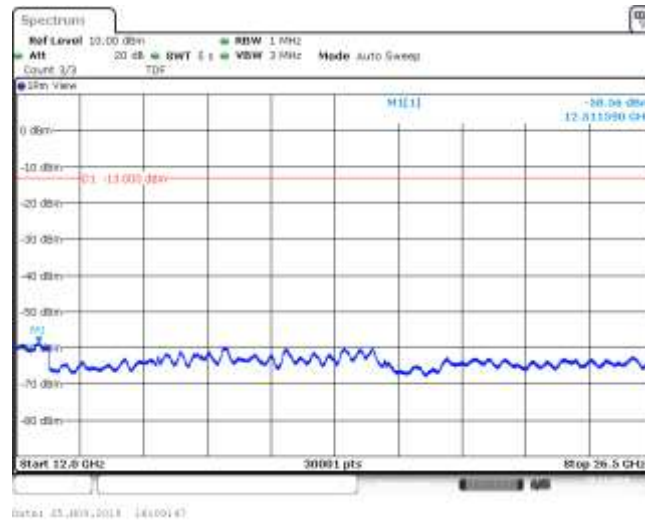
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

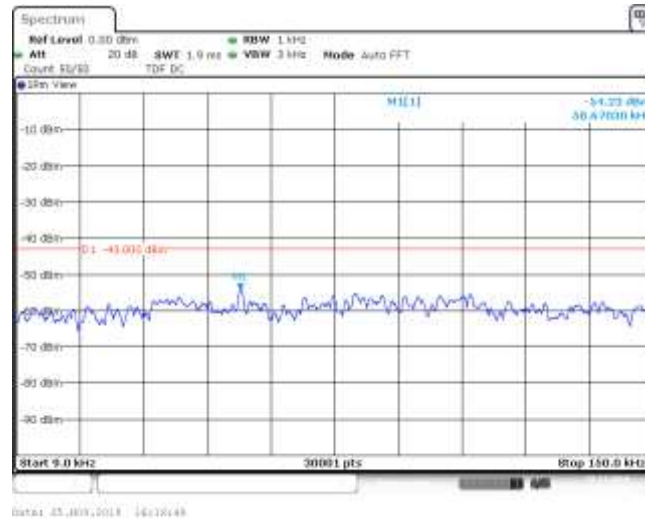
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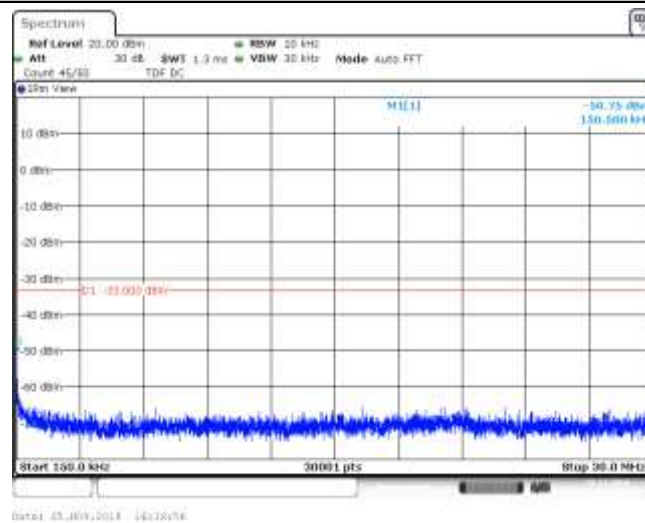
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Band4_15MHz_QPSK_20175_1RB#0



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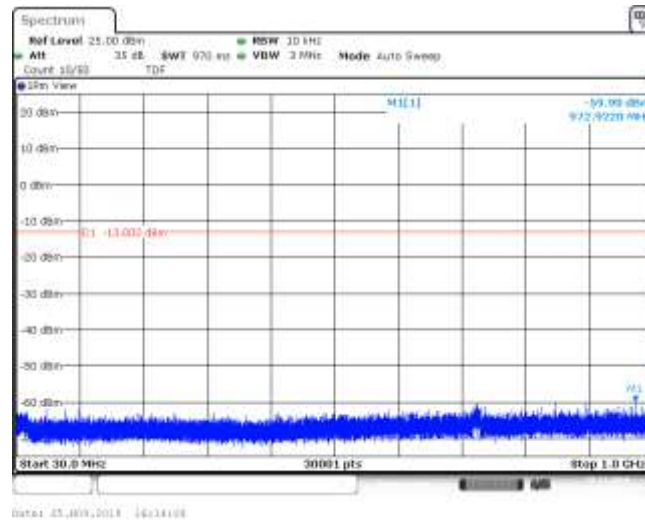
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

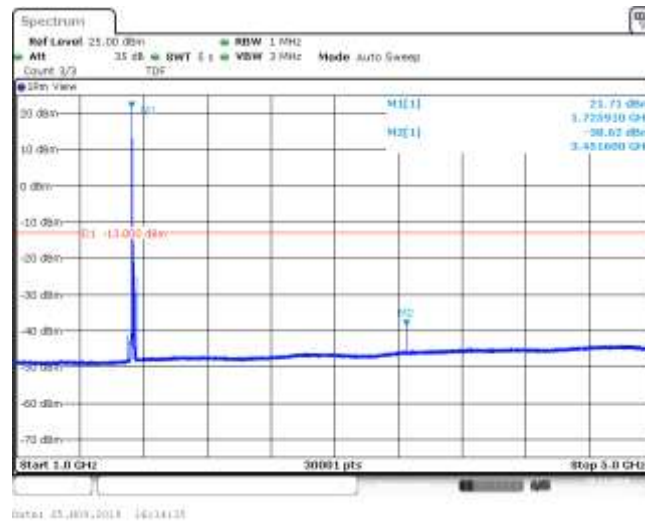
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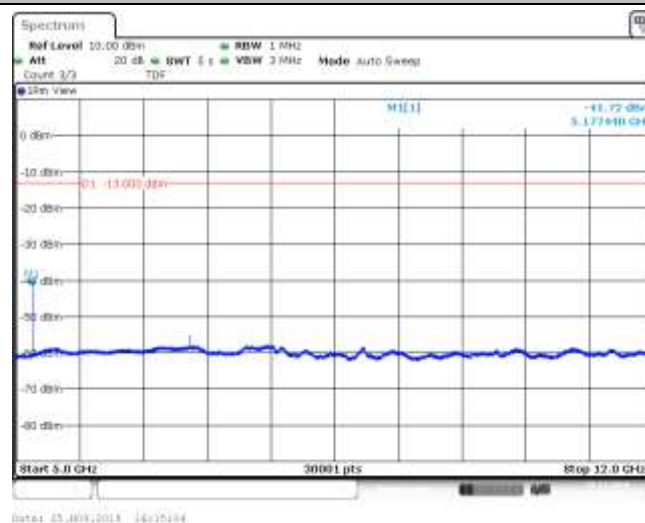
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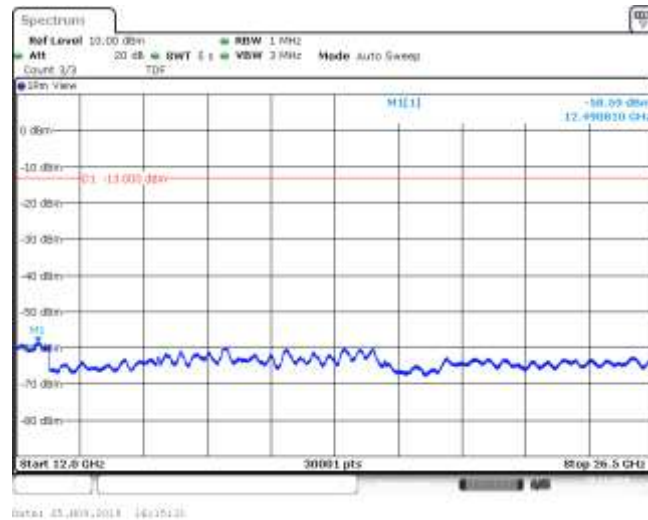
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

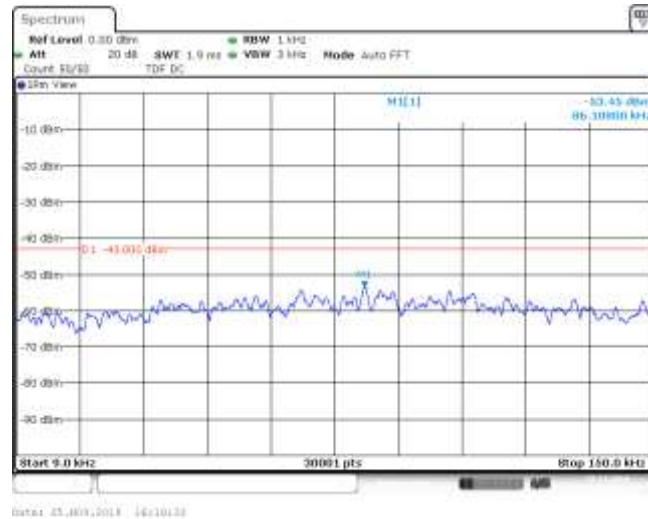
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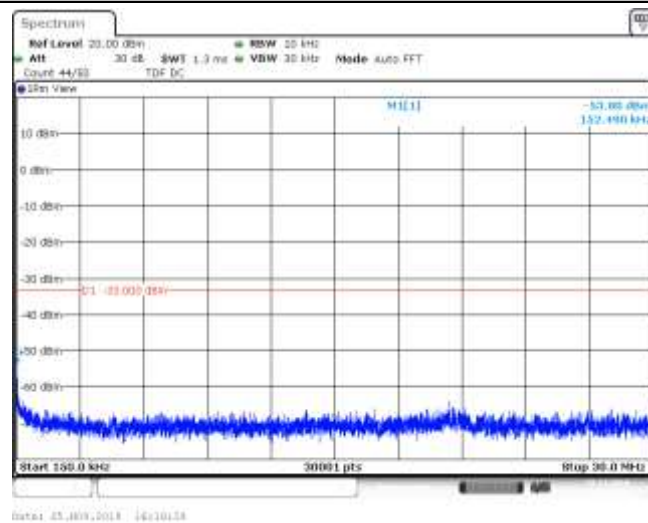
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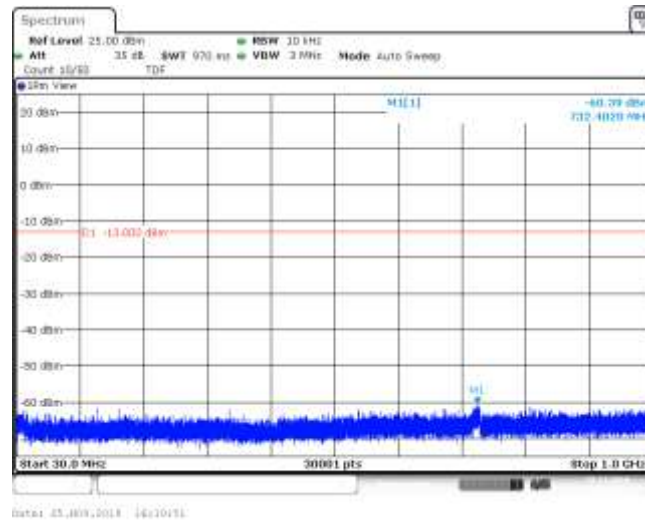
CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

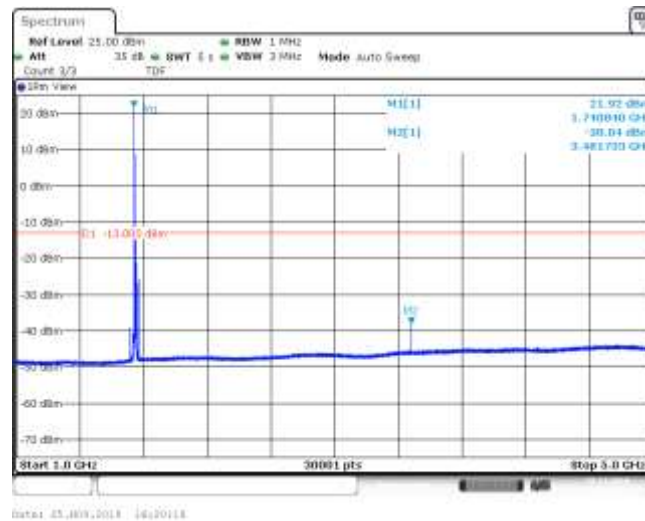
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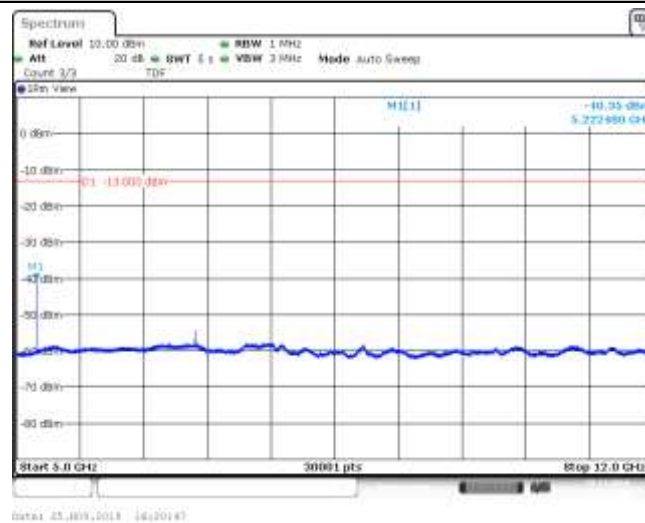
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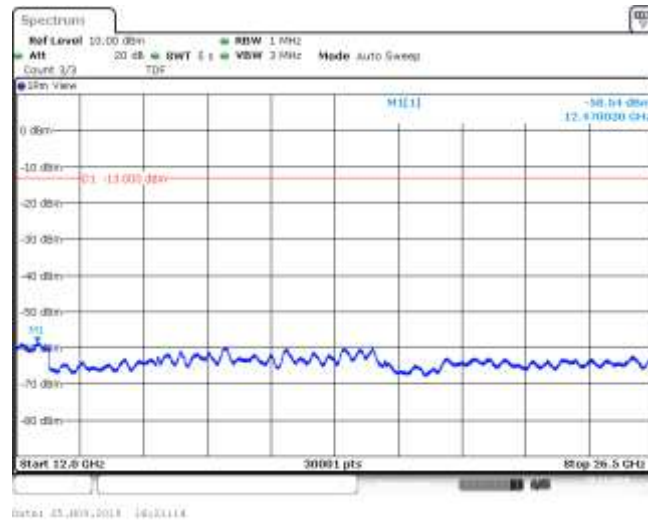
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

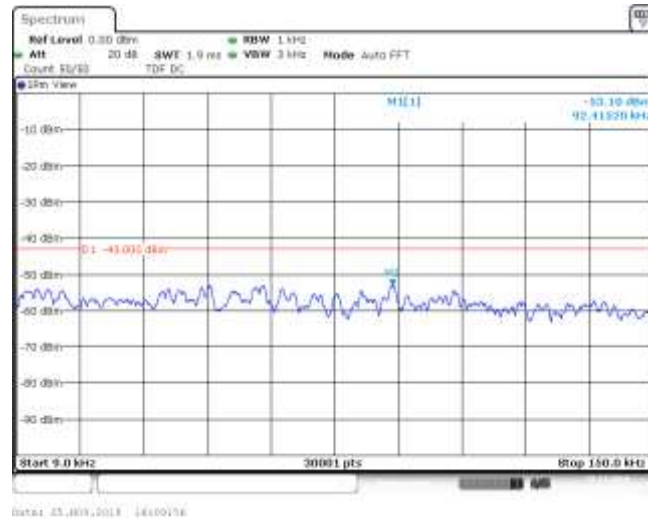
Tel.: (86)755-27521059

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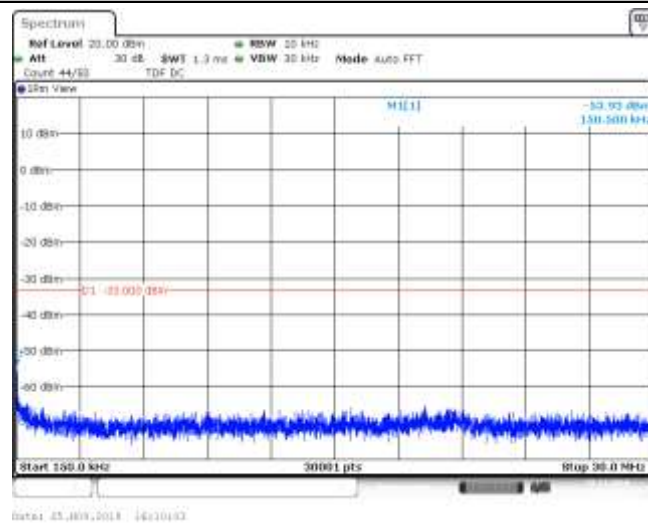
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Band4_15MHz_16QAM_20025_1RB#0



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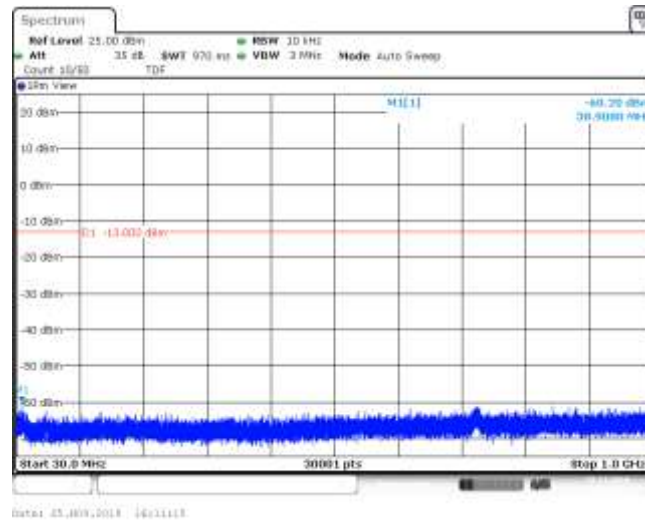
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

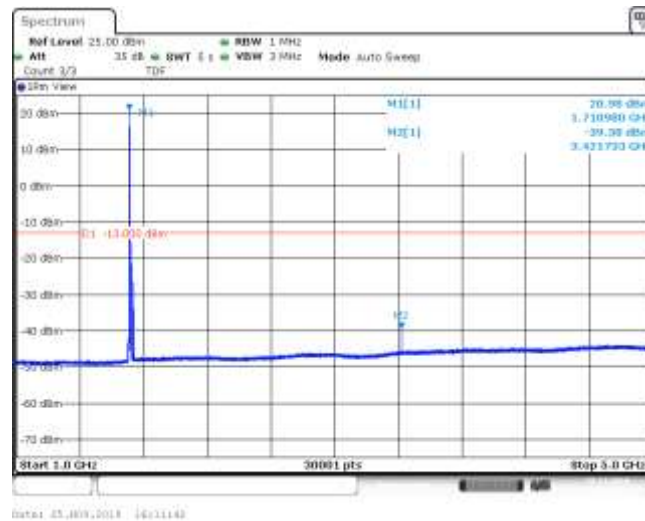
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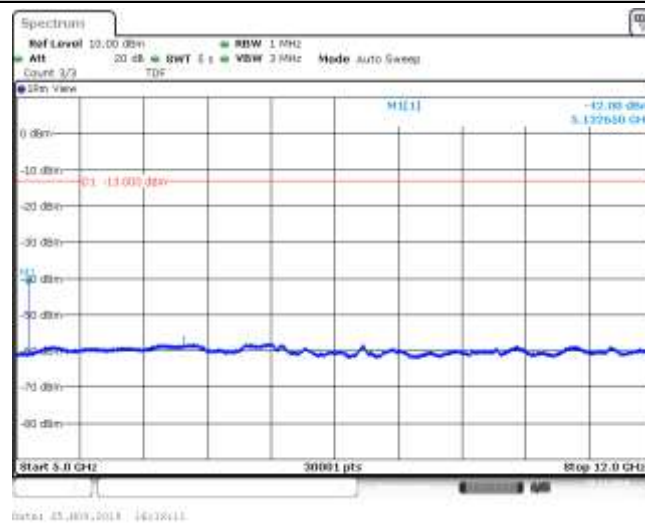
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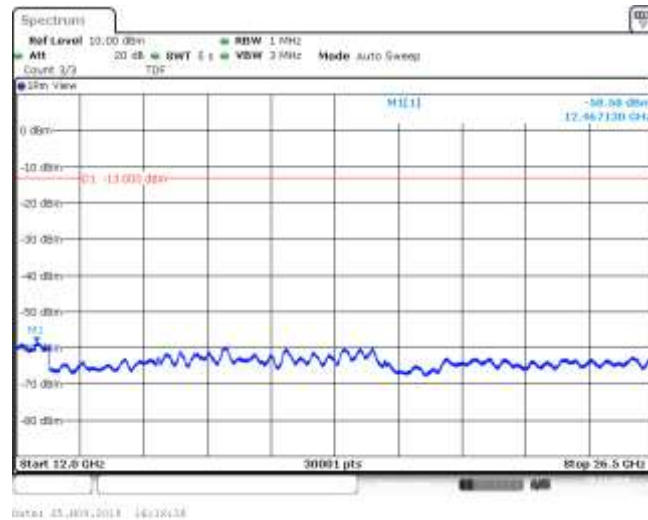
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

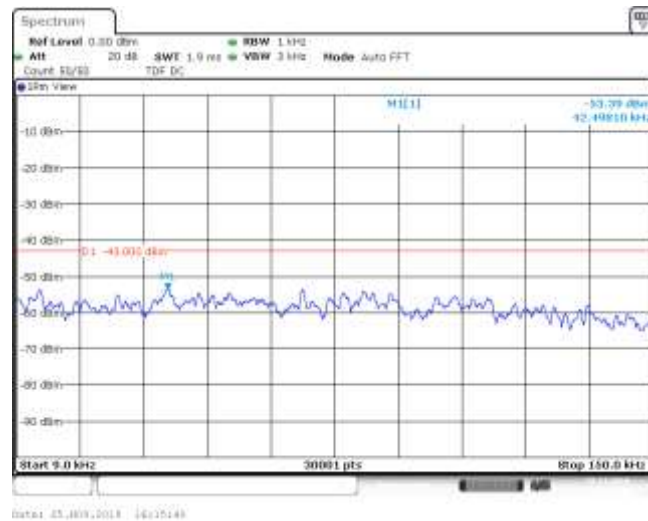
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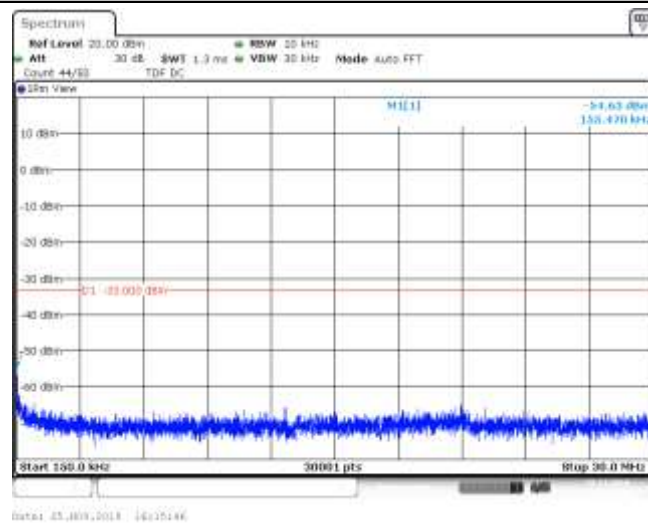
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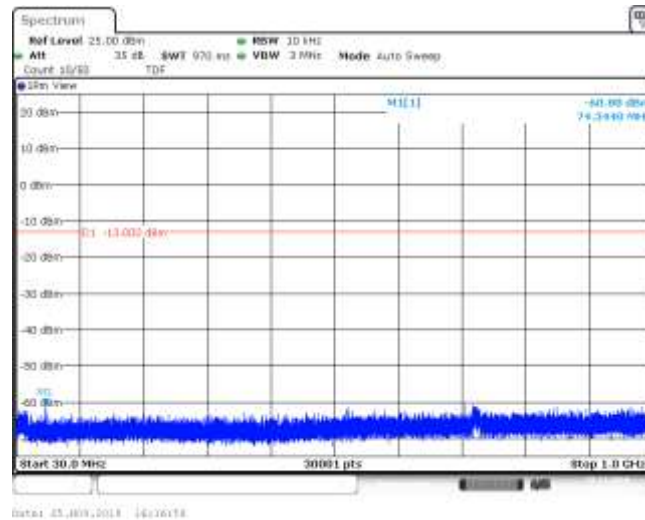
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

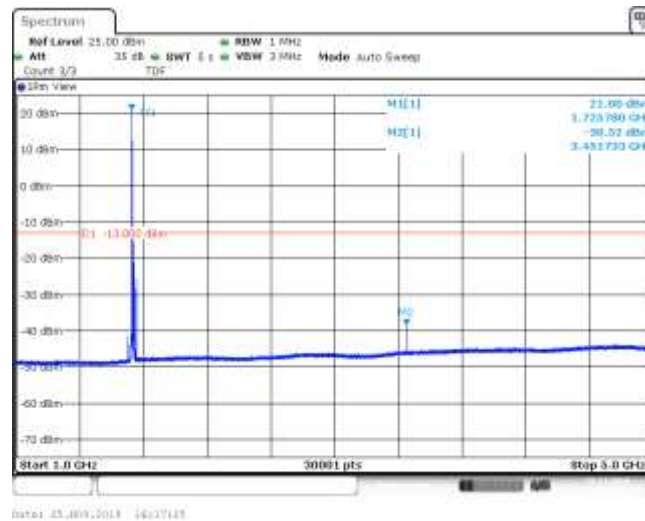
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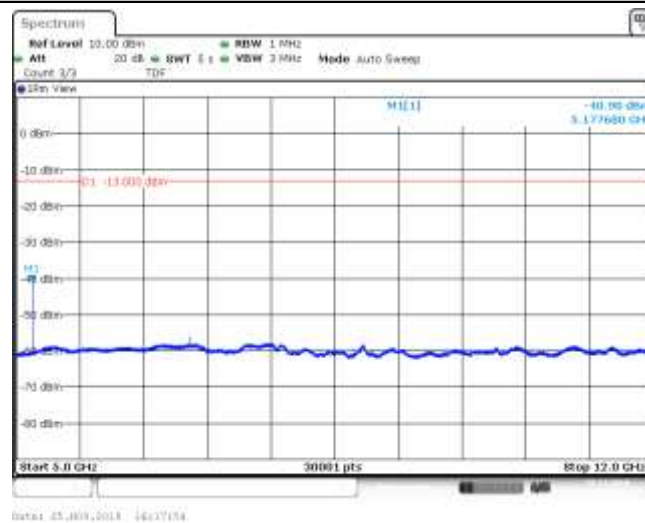
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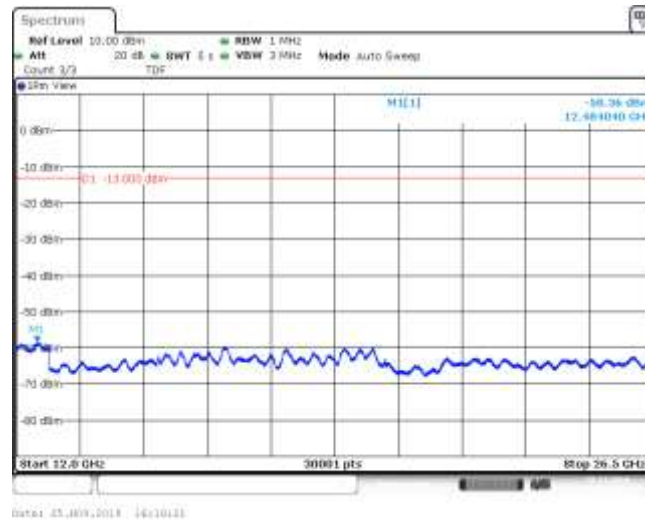
CTC Laboratories, Inc.

2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

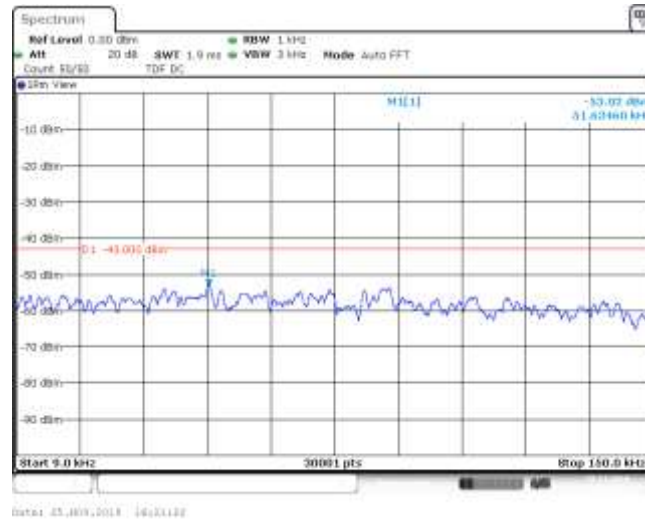
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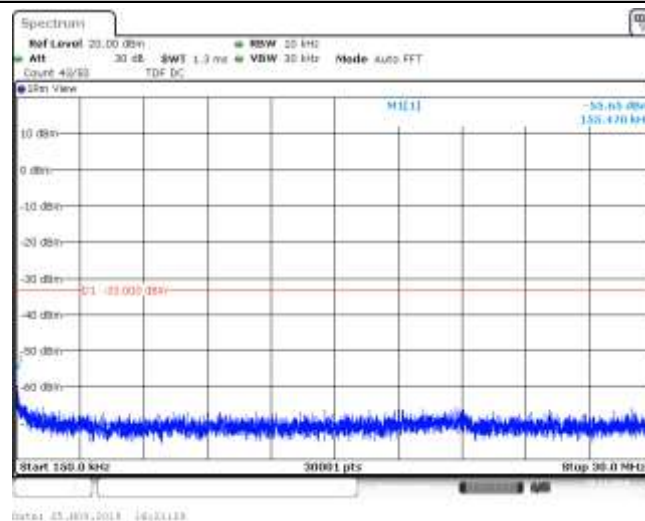
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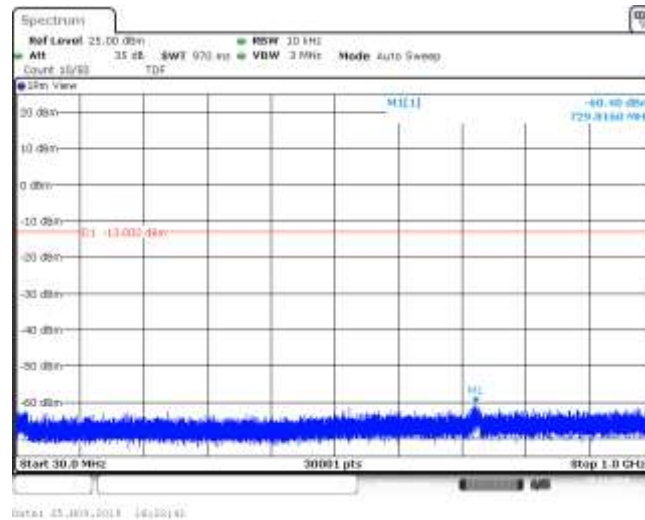
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2/F, Building 1 and 1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

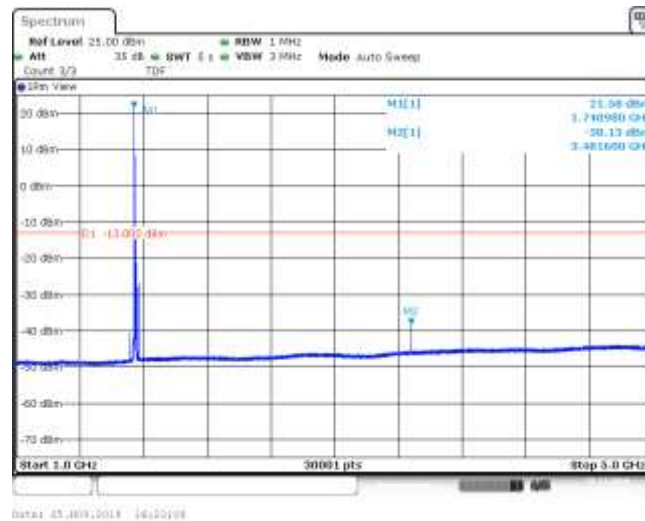
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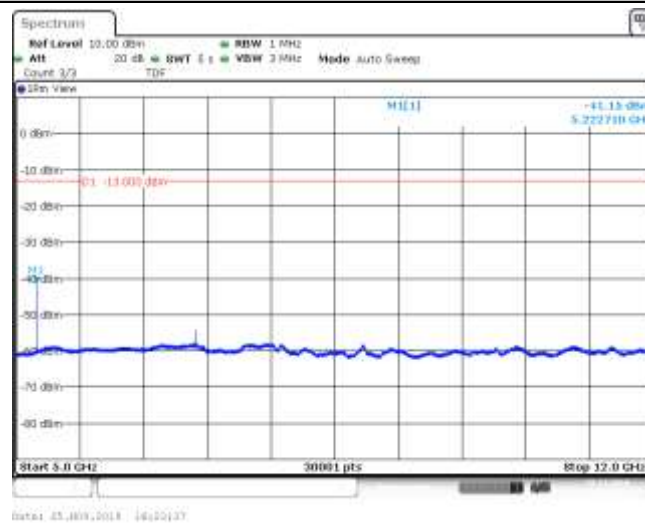
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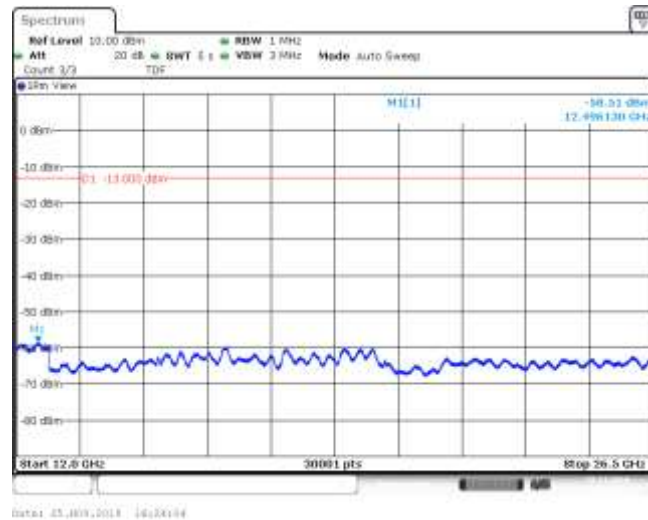
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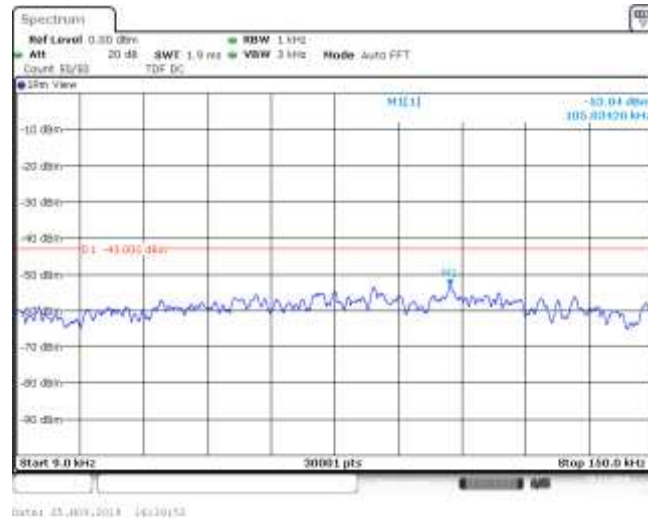
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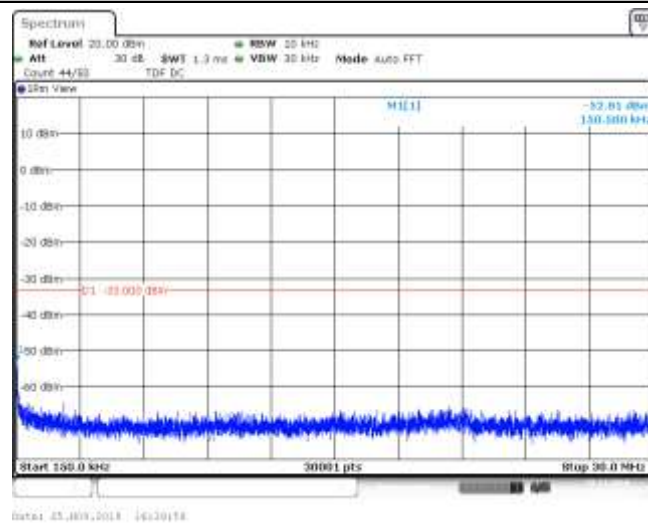
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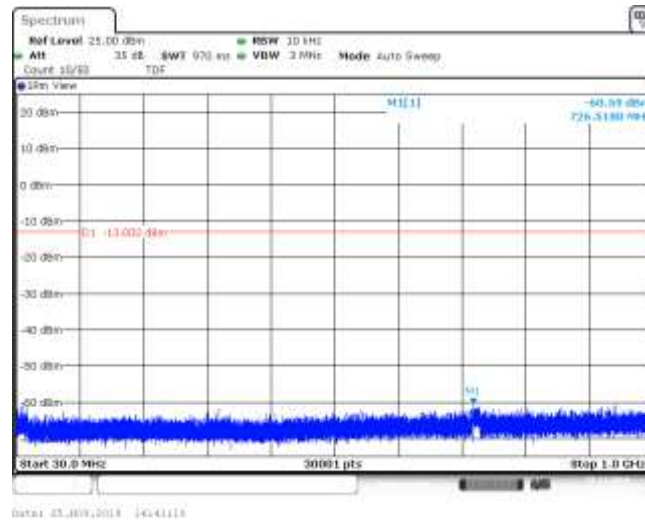
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2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

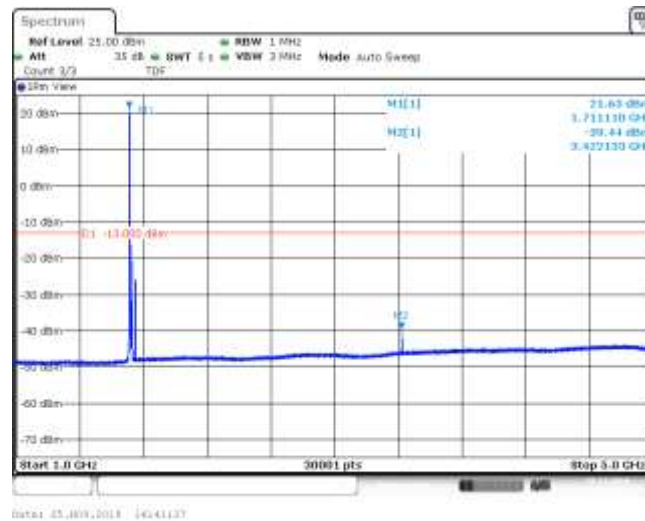
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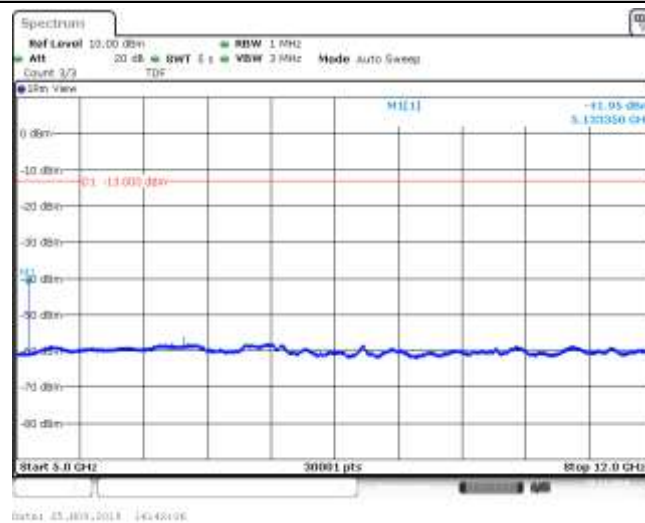
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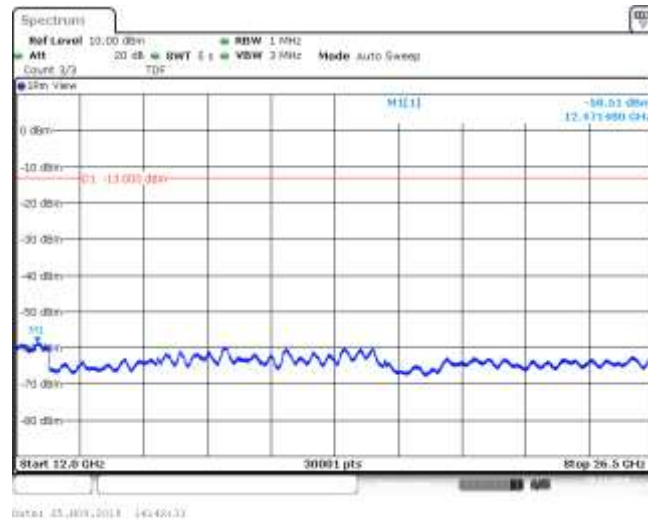
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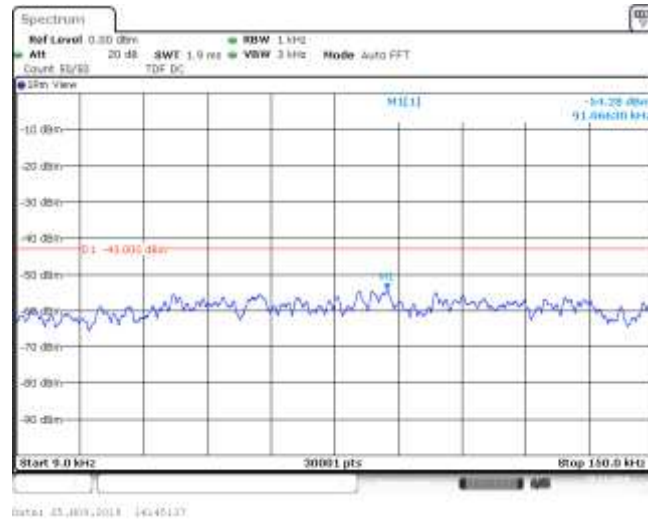
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Fax: (86)755-27521011

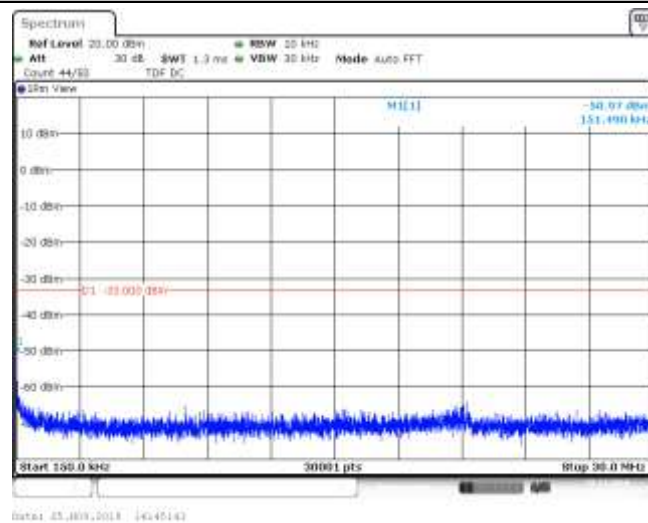
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Band4_20MHz_QPSK_20175_1RB#0



Band4_20MHz_QPSK_20175_1RB#0



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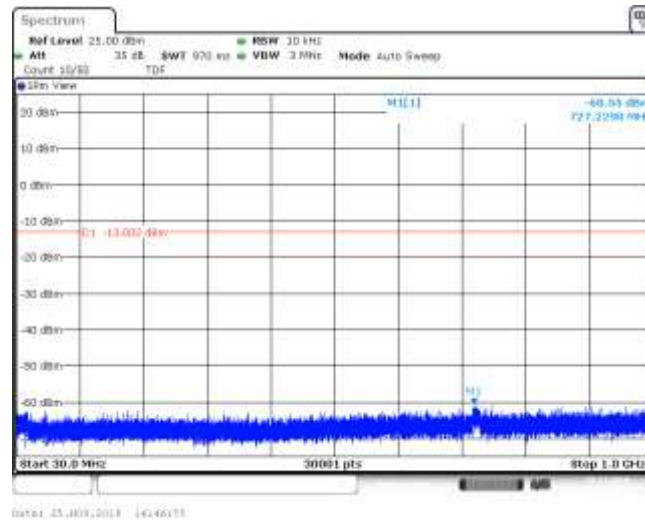
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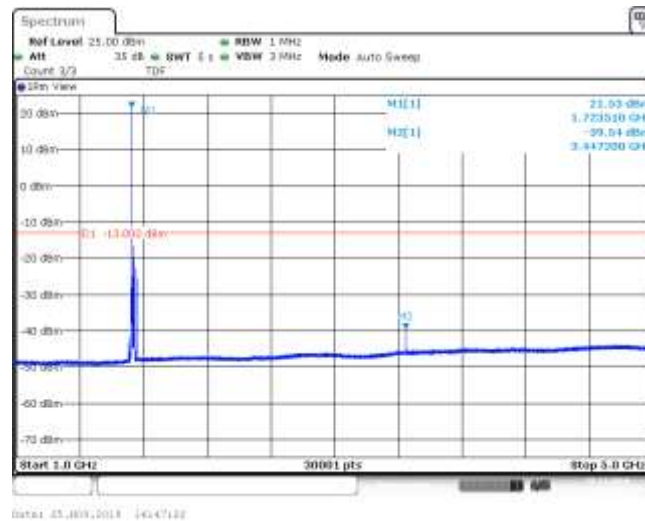
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Fax: (86)755-27521011

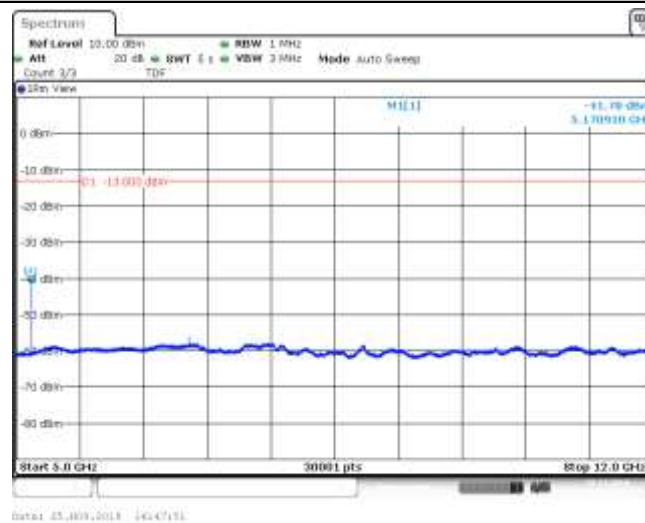
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Band4_20MHz_QPSK_20175_1RB#0



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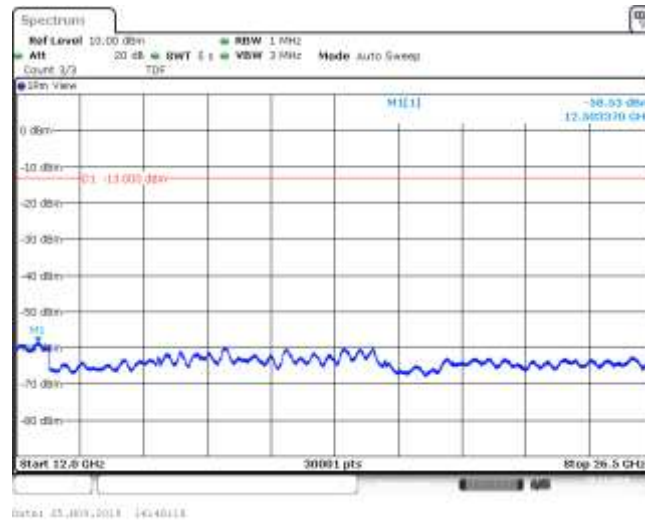
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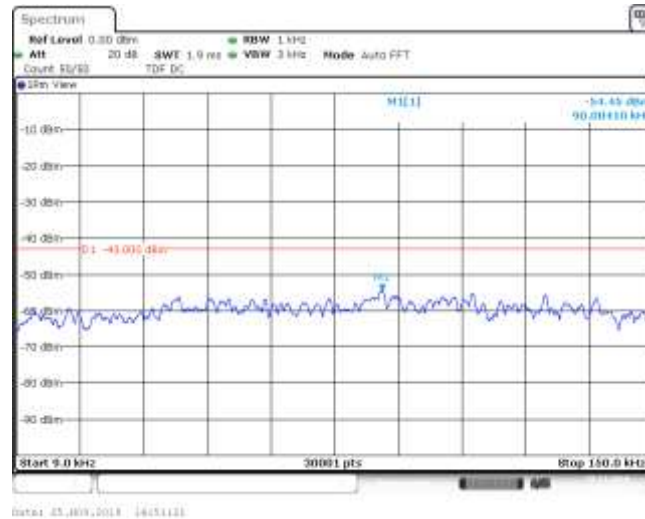
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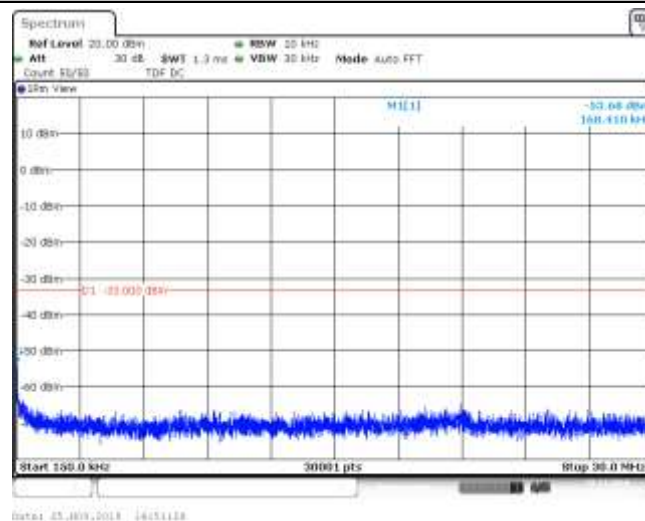
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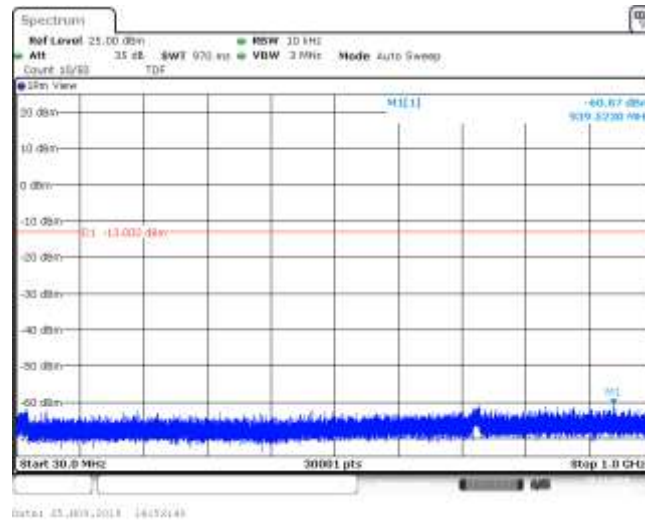
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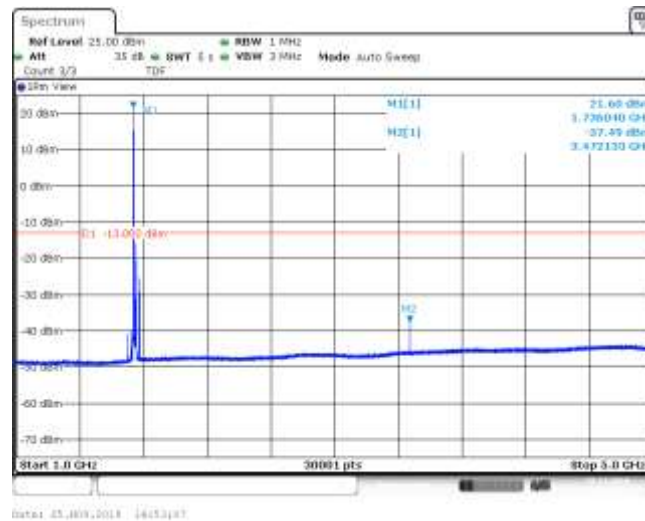
Tel.: (86)755-27521059

Fax: (86)755-27521011

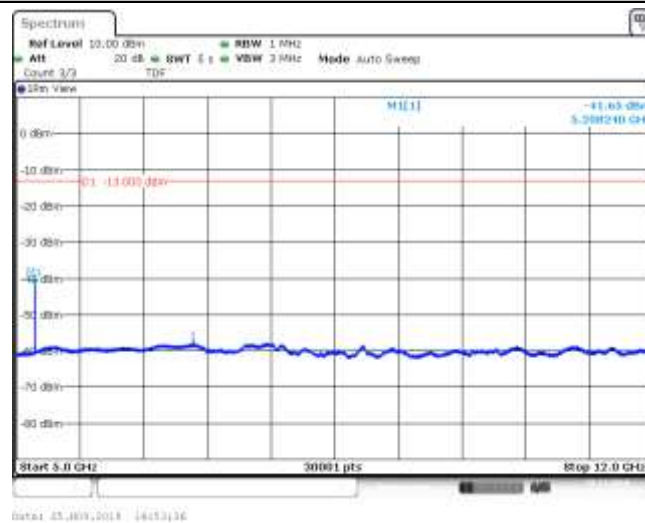
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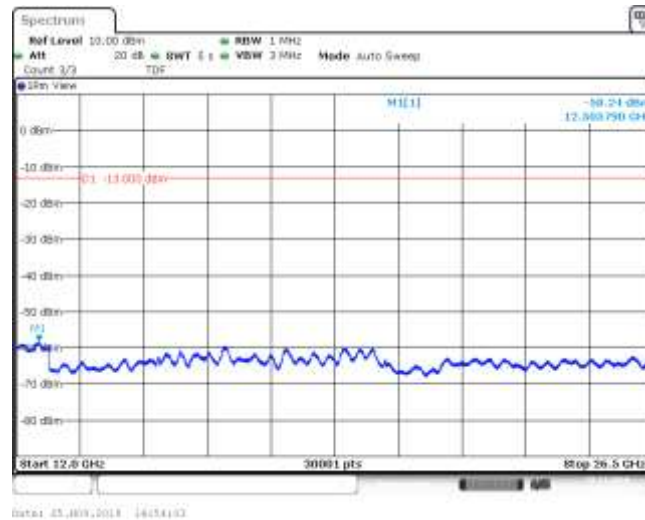
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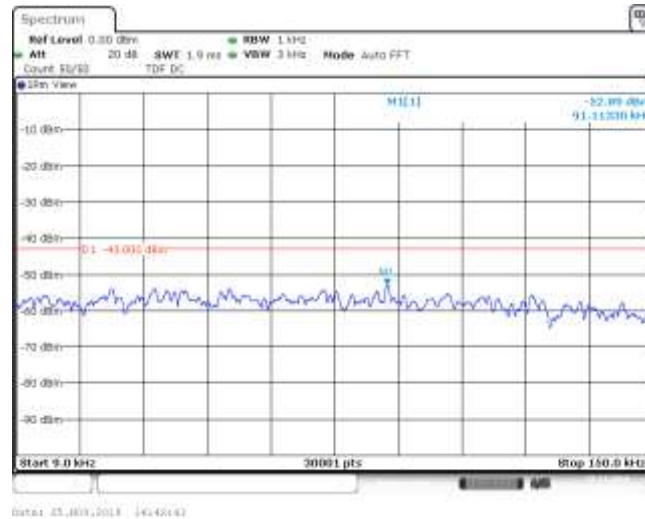
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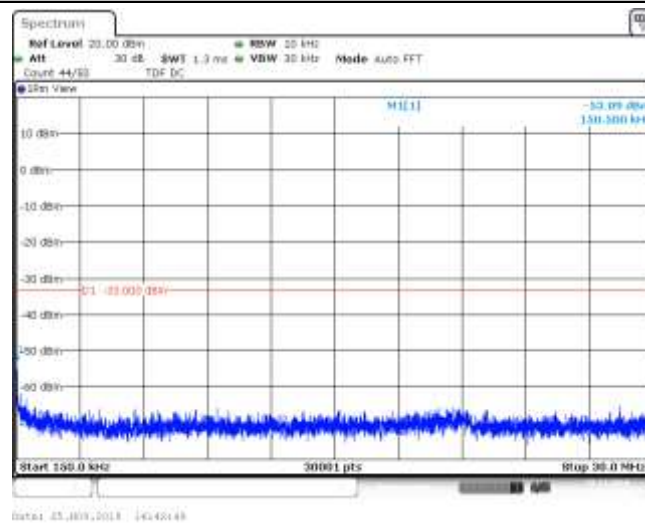
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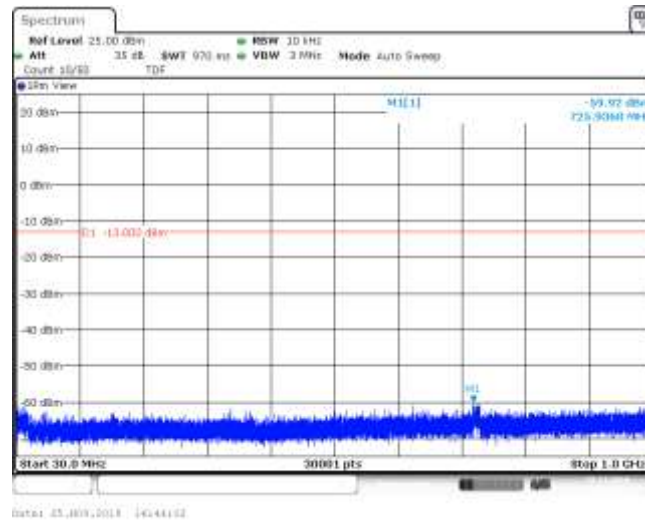
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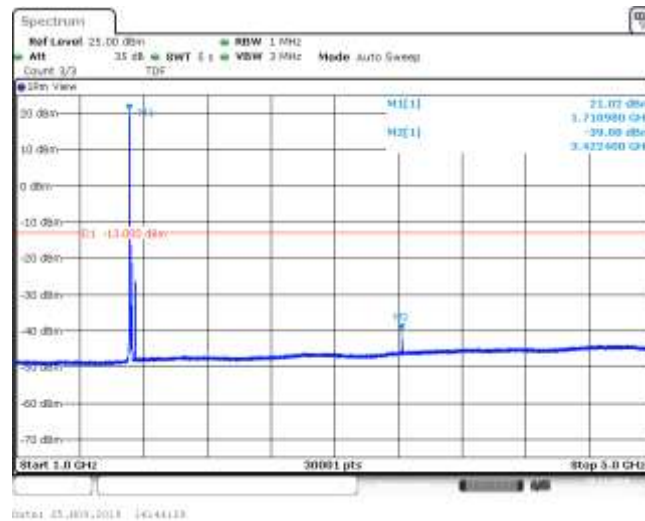
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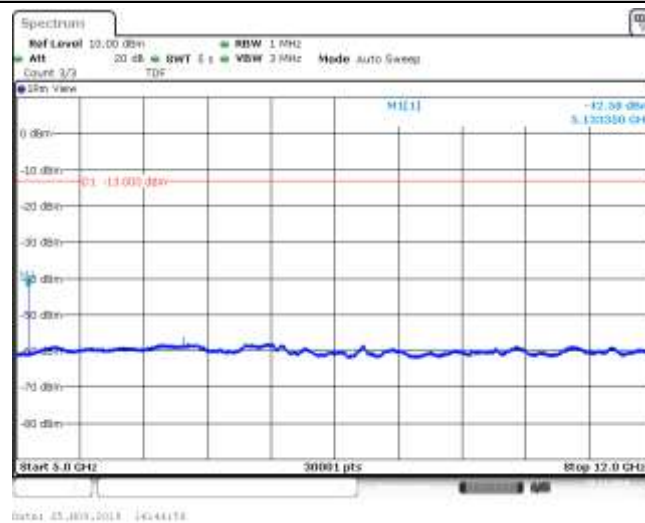
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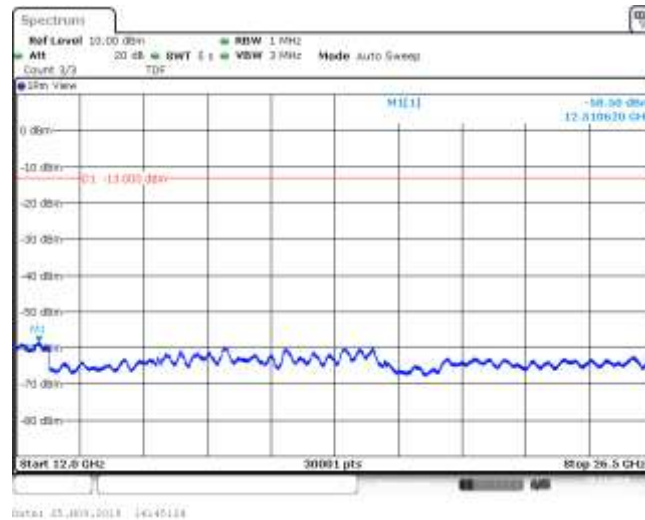
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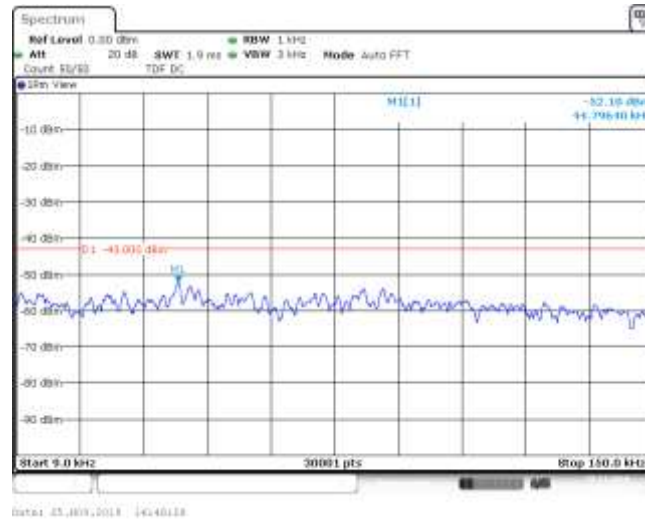
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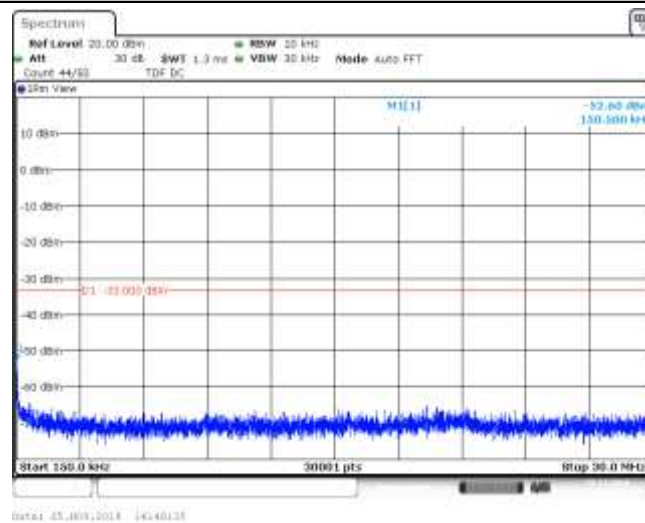
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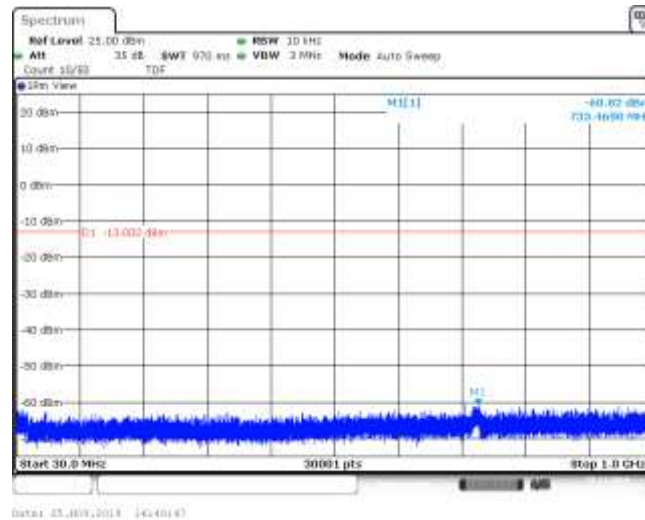
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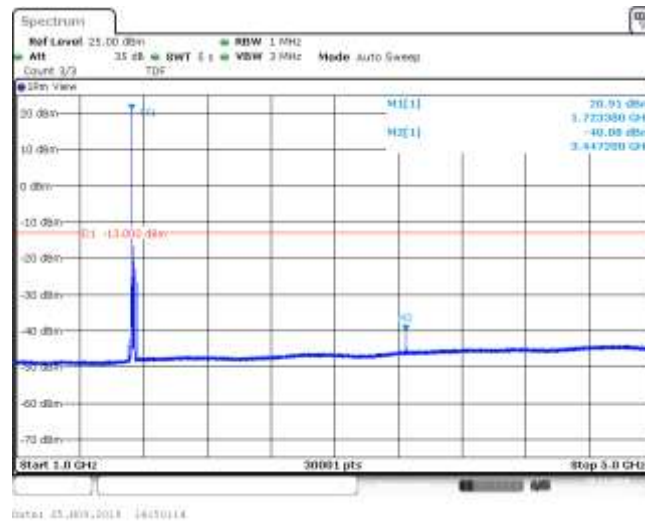
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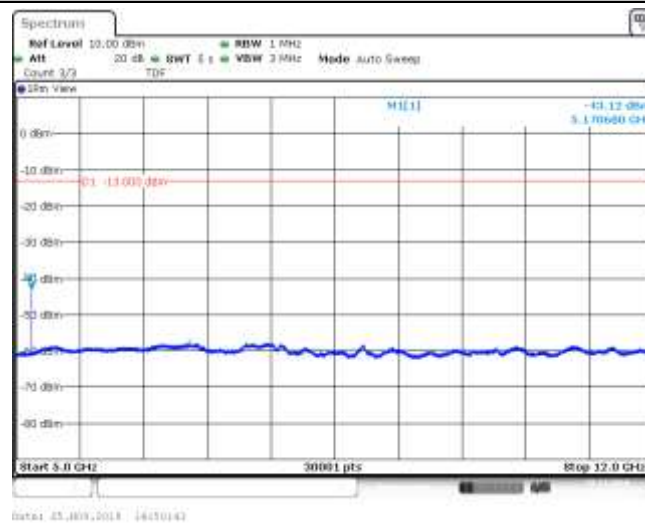
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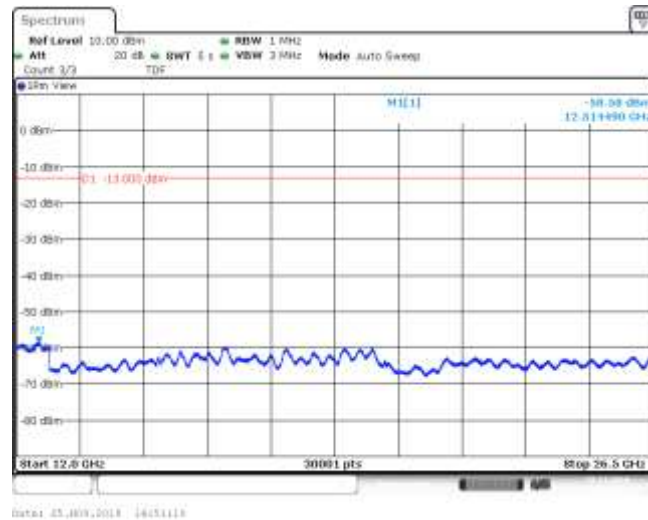
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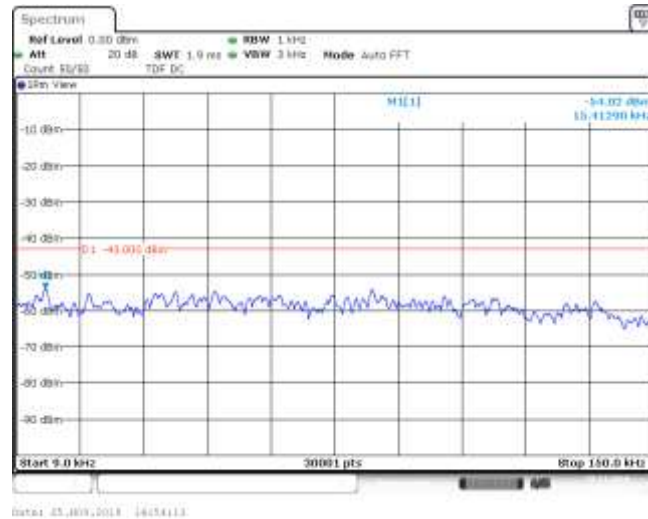
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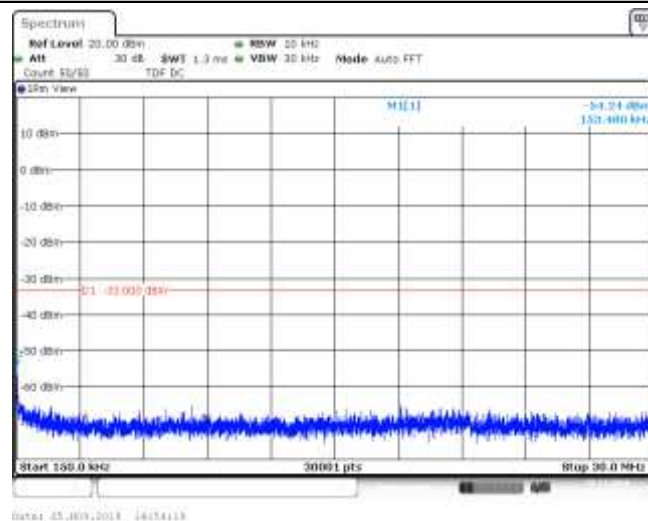
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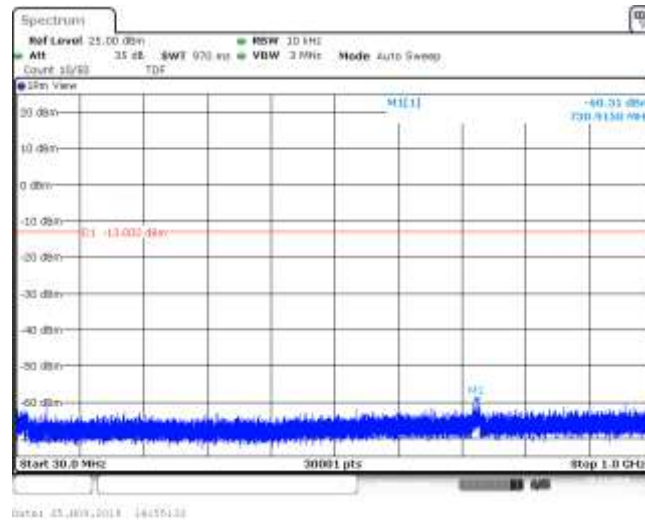
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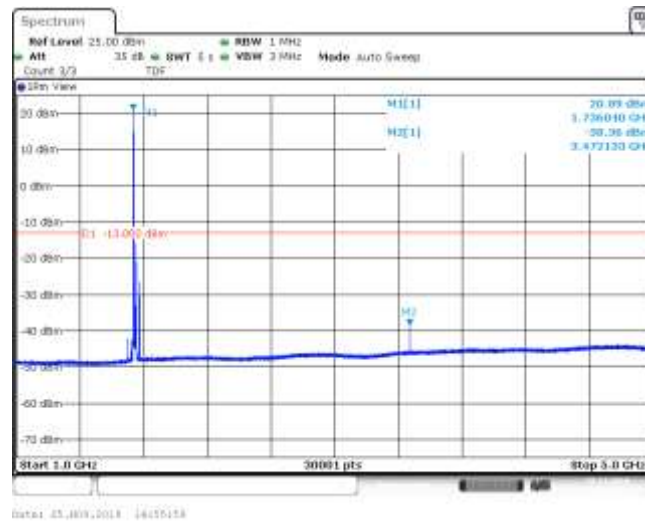
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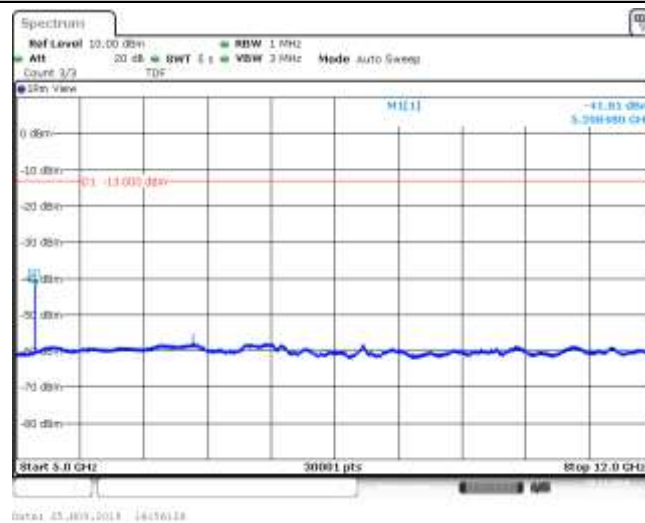
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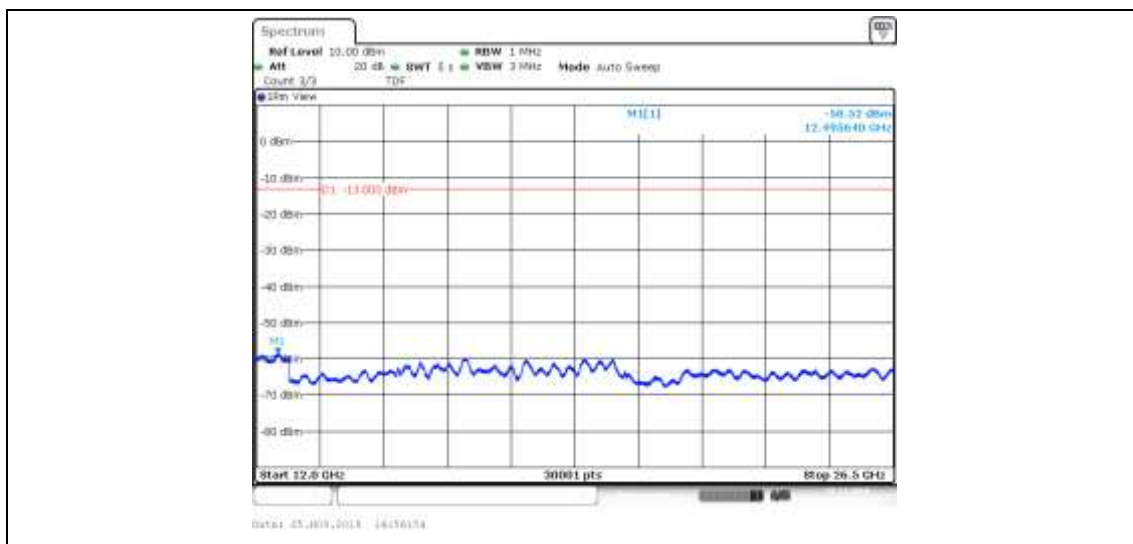
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Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	VL	NT	11.53	0.006655	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	VN	NT	11.74	0.006776	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	VH	NT	4.75	0.002742	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VL	NT	9.23	0.005328	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VN	NT	4.69	0.002707	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	VH	NT	-4.35	-0.002511	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VL	NT	-5.58	-0.003221	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VN	NT	-4.79	-0.002765	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	VH	NT	-6.01	-0.003469	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VL	NT	-11.16	-0.006442	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VN	NT	-11.92	-0.006880	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	VH	NT	-11.01	-0.006355	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VL	NT	11.01	0.006355	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VN	NT	-4.26	-0.002459	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	VH	NT	10.64	0.006141	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	10.77	0.006216	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	11.82	0.006823	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	12.69	0.007325	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	6RB#0	NV	-30	11.74	0.006776	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	NV	-20	12.16	0.007019	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	NV	0	10.86	0.006268	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	NV	10	8.34	0.004814	±2.5	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	NV	20	13.78	0.007954	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	NV	-30	6.25	0.003608	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	NV	-20	-10.67	-0.006159	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	NV	0	-11.14	-0.006430	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	NV	10	12.36	0.007134	±2.5	PASS
Band4	3MHz	QPSK	20175	15RB#0	NV	20	-9.58	-0.005530	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	-30	-3.81	-0.002199	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	-20	-14.18	-0.008185	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	0	-4.88	-0.002817	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	10	-3.93	-0.002268	±2.5	PASS
Band4	5MHz	QPSK	20175	25RB#0	NV	20	4.89	0.002823	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	-30	-4.94	-0.002851	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	-20	9.90	0.005714	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	0	-5.69	-0.003284	±2.5	PASS

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Band4	10MHz	QPSK	20175	50RB#0	NV	10	-10.63	-0.006136	±2.5	PASS
Band4	10MHz	QPSK	20175	50RB#0	NV	20	-9.56	-0.005518	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	-30	10.41	0.006009	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	-20	10.20	0.005887	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	0	4.31	0.002488	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	10	10.27	0.005928	±2.5	PASS
Band4	15MHz	QPSK	20175	75RB#0	NV	20	10.50	0.006061	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-13.03	-0.007521	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-11.66	-0.006730	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	4.32	0.002494	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-4.91	-0.002834	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	12.55	0.007244	±2.5	PASS

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