



Appendix for LTE Band4-1

FCC ID: 2AC88-GLMU19A02

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Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.53	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.54	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.51	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.34	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.39	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.38	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.51	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.58	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.47	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.79	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.75	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.62	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.84	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.58	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.54	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.66	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.65	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.81	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.79	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.85	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.95	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.64	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.95	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.72	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.32	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.38	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.29	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.62	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.70	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.90	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.73	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.63	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.72	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.54	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.52	PASS

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Band4	1.4MHz	16QAM	20393	1RB#0	21.66	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.36	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.79	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.80	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.79	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.74	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.05	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.52	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.84	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.52	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.76	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.81	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.50	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.83	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.66	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.60	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.76	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.29	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.84	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.18	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.85	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.39	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.74	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.73	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.57	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.55	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.62	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.70	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.72	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.82	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.82	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.76	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.80	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.82	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.70	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.19	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.35	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.91	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.79	PASS
Band4	3MHz	16QAM	20175	8RB#4	22.22	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.92	PASS

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Band4	3MHz	16QAM	20175	15RB#0	20.70	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.59	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.64	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.71	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.58	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.65	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.79	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.82	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.66	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.84	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.81	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.67	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.77	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.82	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.84	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.53	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.94	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.92	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.95	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.94	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.99	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.85	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.01	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.70	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.94	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.89	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.90	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.91	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.92	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.84	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.91	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.57	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.80	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.77	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.82	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.85	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.99	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.26	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.05	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.95	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.95	PASS

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Band4	5MHz	16QAM	20175	12RB#13	21.99	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.98	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.68	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.88	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.84	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.89	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.90	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.90	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.98	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.03	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.14	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.33	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.01	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.90	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.82	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.92	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.03	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.03	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.07	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.02	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.92	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.13	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.95	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.26	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.25	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.10	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.15	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.15	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.91	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.18	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.95	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.55	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.88	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.89	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.82	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.75	PASS
Band4	10MHz	16QAM	20175	1RB#0	20.99	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.07	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.13	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.92	PASS

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Band4	10MHz	16QAM	20175	25RB#12	21.91	PASS
Band4	10MHz	16QAM	20175	25RB#25	22.02	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.90	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.55	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.26	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.37	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.15	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.15	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.91	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.17	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.05	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.73	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.04	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.36	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.65	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.37	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.86	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.03	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.07	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.09	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.00	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.11	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.11	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.92	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.14	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.21	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.02	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.41	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.50	PASS
Band4	15MHz	QPSK	20325	38RB#37	21.33	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.12	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.36	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.74	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.36	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.36	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.63	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.36	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.88	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.10	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.11	PASS

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Band4	15MHz	16QAM	20175	38RB#0	20.99	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.11	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.12	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.95	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.41	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.06	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.31	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.42	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.08	PASS
Band4	15MHz	16QAM	20325	38RB#37	21.33	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.91	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.19	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.14	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.85	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.98	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.96	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.94	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.05	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.78	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.27	PASS
Band4	20MHz	QPSK	20175	1RB#99	21.99	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.97	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.94	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.06	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.01	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.91	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.18	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.96	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.23	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.19	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.17	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.16	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.32	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.69	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.08	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.93	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.93	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.94	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.03	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.06	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.21	PASS

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Band4	20MHz	16QAM	20175	1RB#99	21.13	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.96	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.95	PASS
Band4	20MHz	16QAM	20175	50RB#50	22.17	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.02	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.01	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.60	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.05	PASS
Band4	20MHz	16QAM	20300	50RB#0	22.20	PASS
Band4	20MHz	16QAM	20300	50RB#25	22.23	PASS
Band4	20MHz	16QAM	20300	50RB#50	22.12	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.16	PASS

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Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	2.81	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	3.77	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3.10	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.06	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3.16	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.14	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	3.71	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	4.67	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	4.03	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	4.93	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.06	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	4.99	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	2.96	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.09	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	3.19	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.29	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.28	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.41	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	3.83	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	4.87	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	4.12	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.19	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.06	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.25	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	3.01	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.06	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	3.22	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.20	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	3.13	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.29	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	3.77	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.93	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	4.00	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.04	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	4.03	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.13	13	PASS

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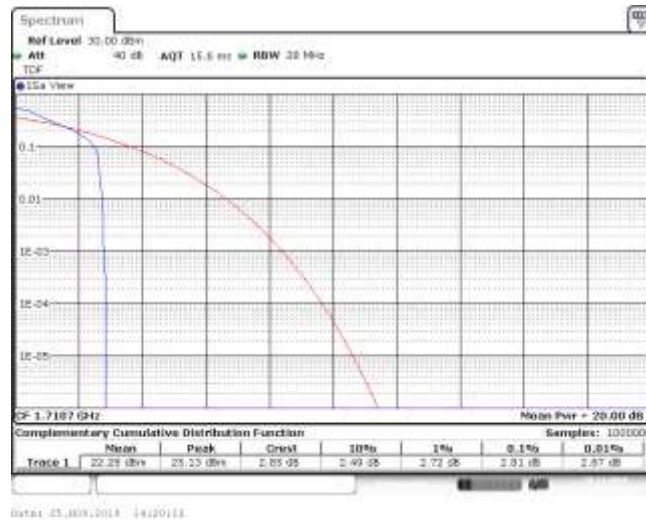
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Band4	10MHz	QPSK	20175	50RB#0	4.20	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	3.13	13	PASS
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Band4	15MHz	QPSK	20025	1RB#0	3.10	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	4.26	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	3.28	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.14	13	PASS
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Band4	15MHz	QPSK	20325	75RB#0	4.23	13	PASS
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Band4	15MHz	16QAM	20175	75RB#0	5.13	13	PASS
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Band4	20MHz	QPSK	20050	100RB#0	4.14	13	PASS
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Band4	20MHz	QPSK	20175	100RB#0	4.09	13	PASS
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Band4	20MHz	QPSK	20300	100RB#0	4.12	13	PASS
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Band4	20MHz	16QAM	20175	1RB#0	4.23	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.10	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	4.00	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.01	13	PASS

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Test Graphs

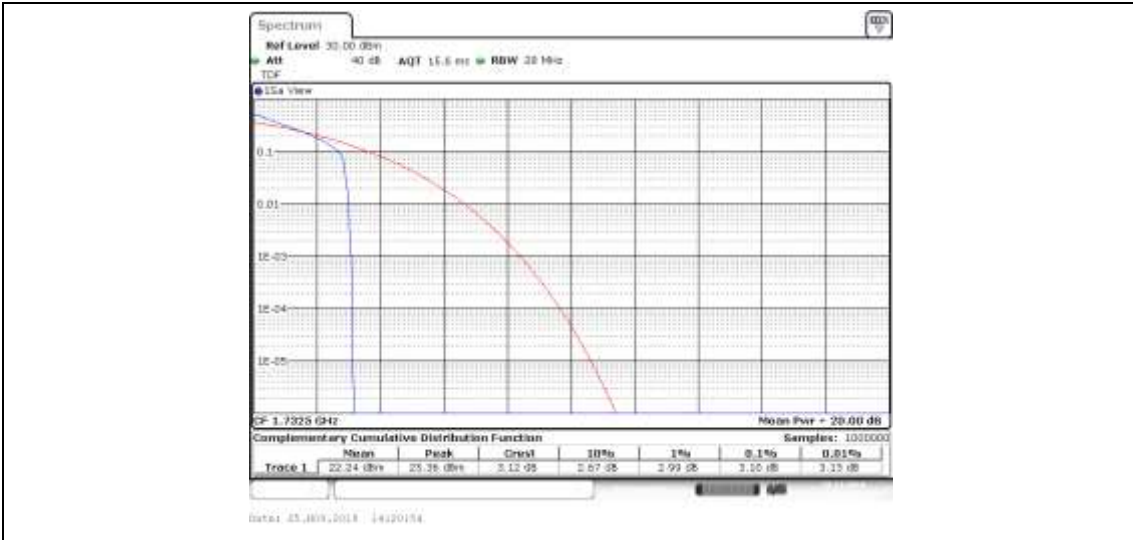
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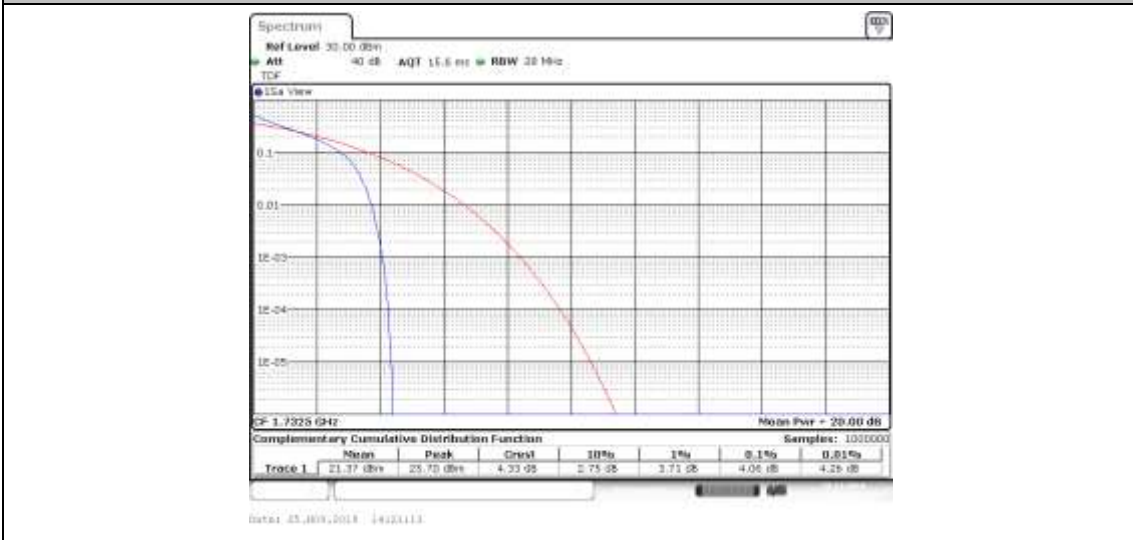
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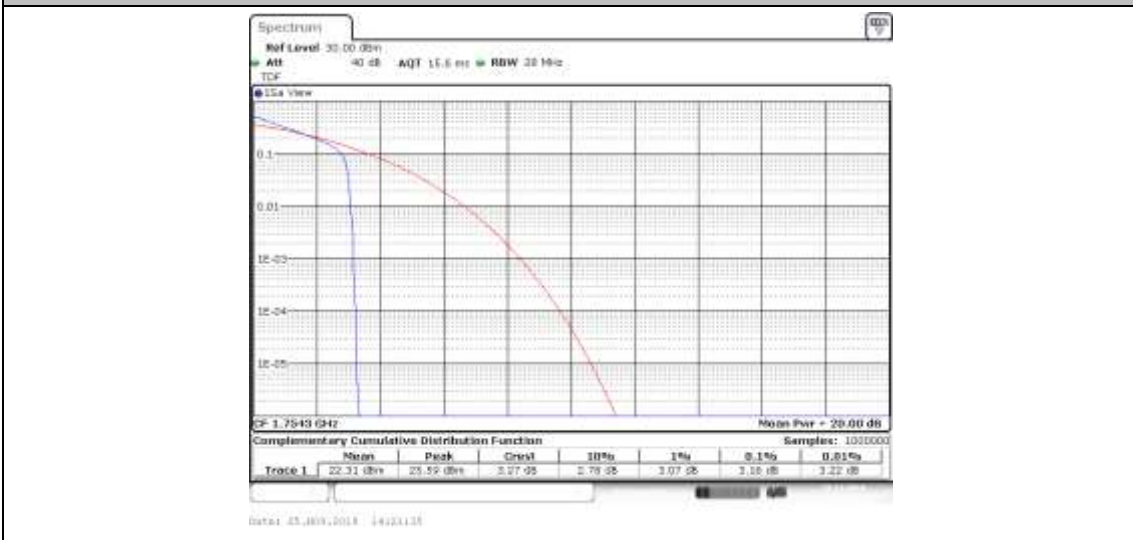
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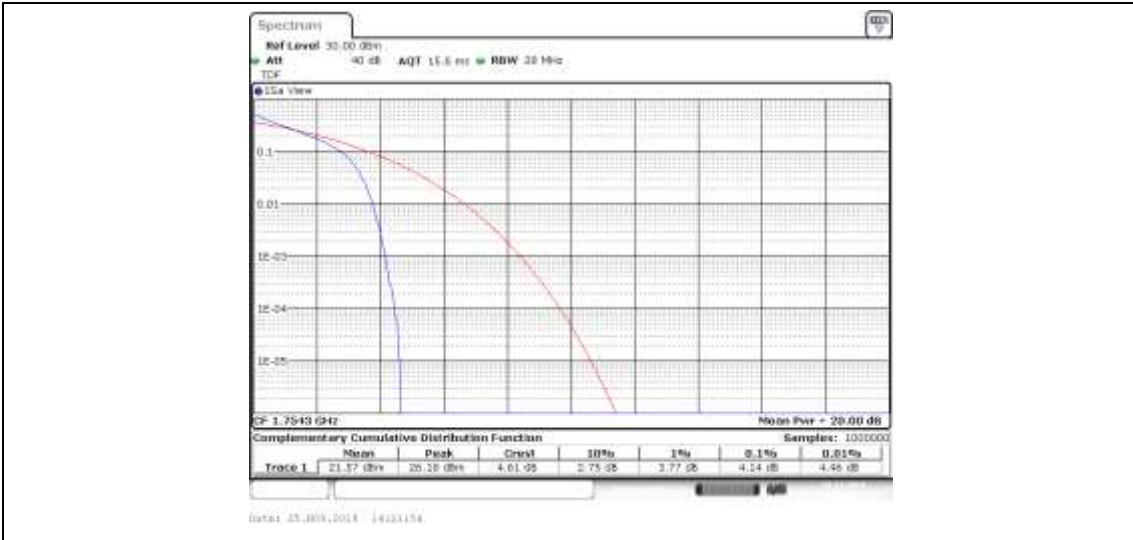
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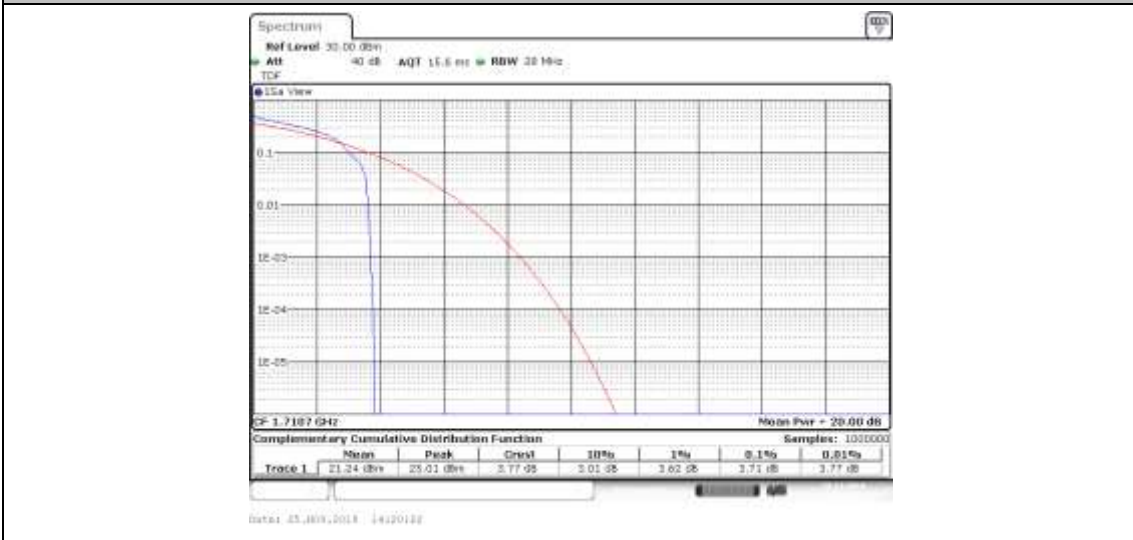
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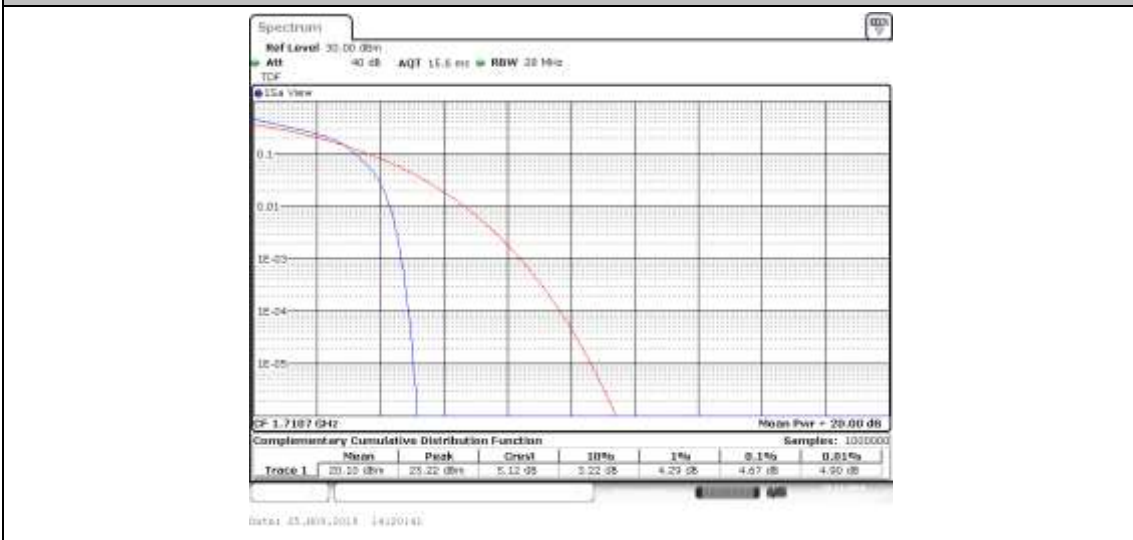
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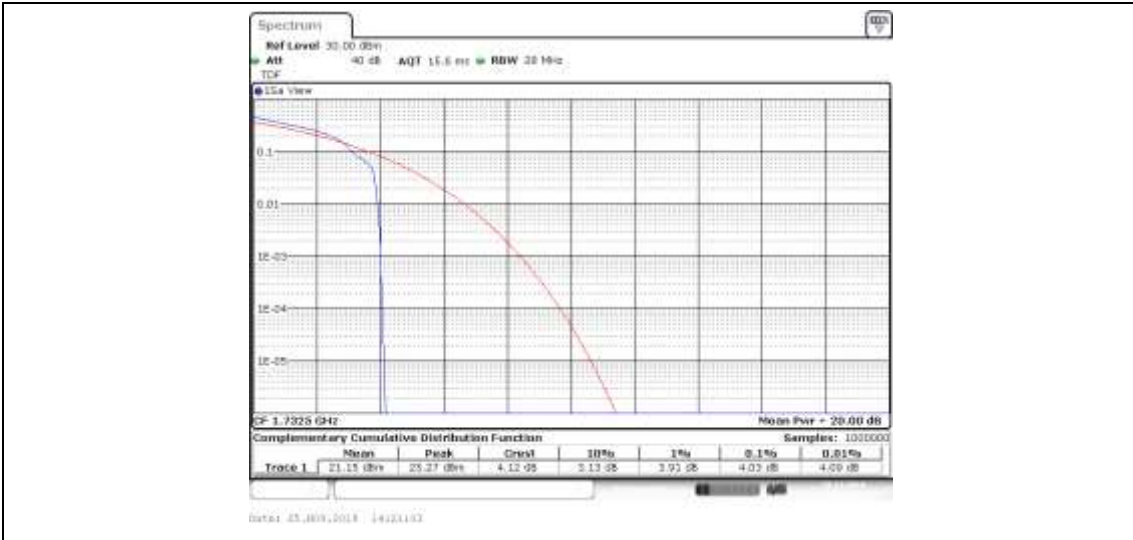
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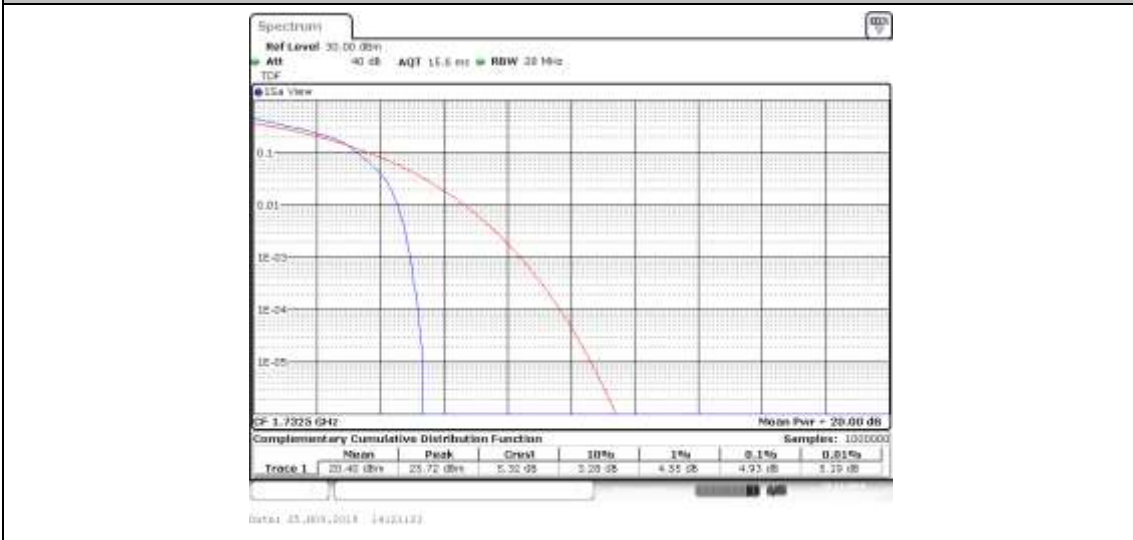
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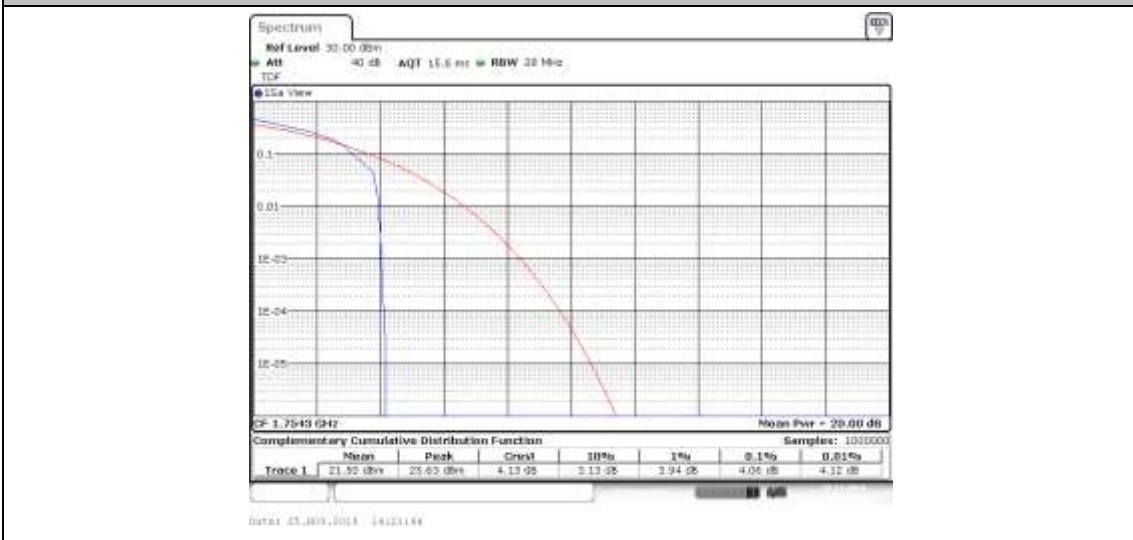
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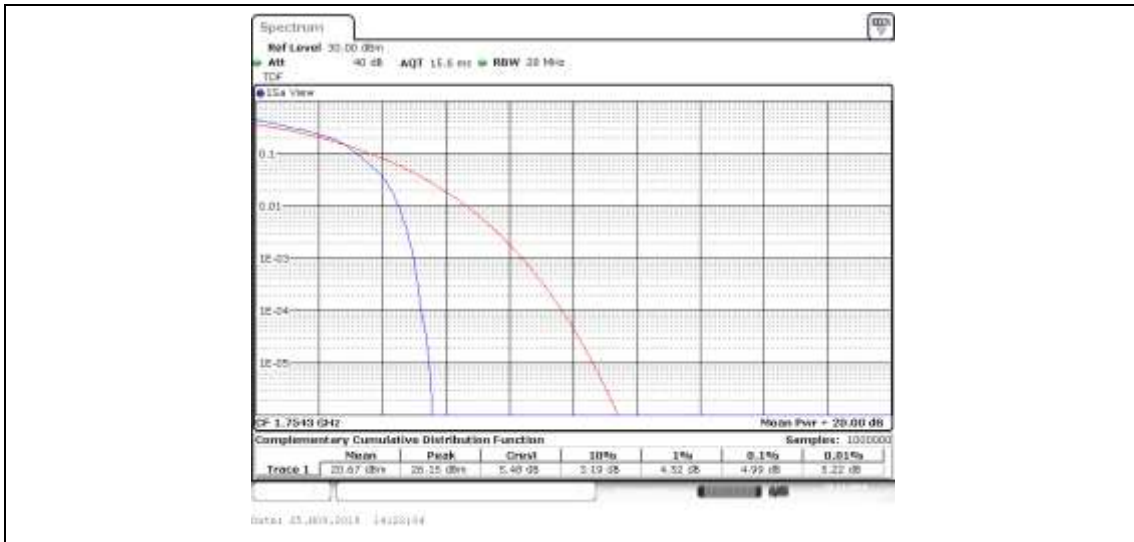
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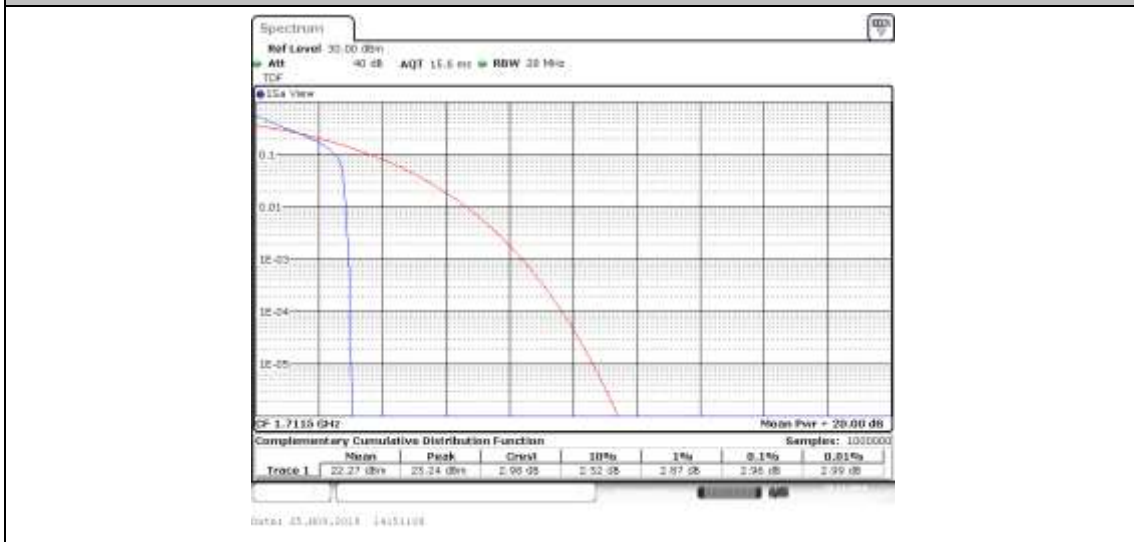
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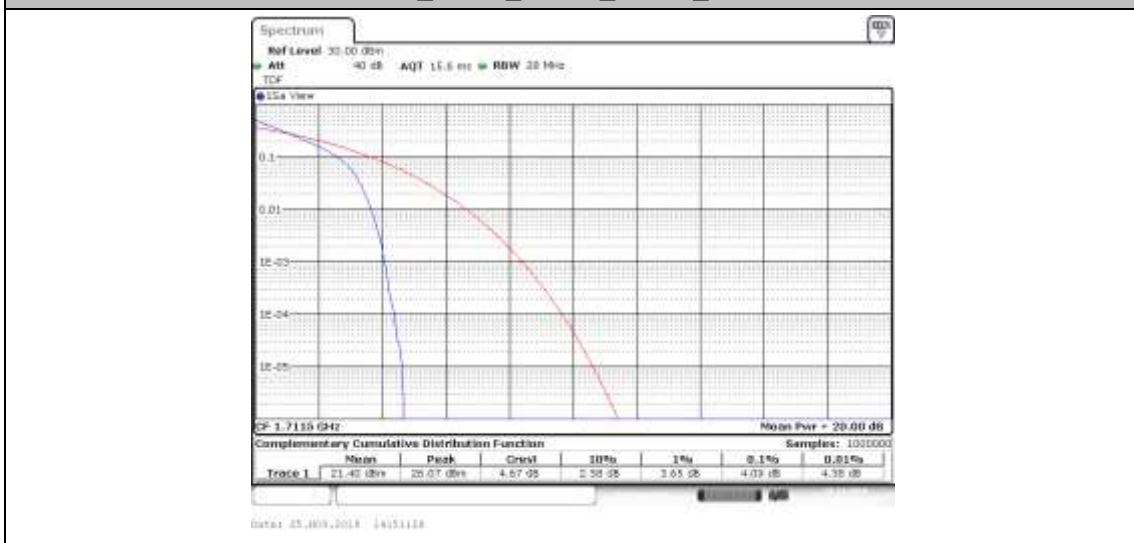
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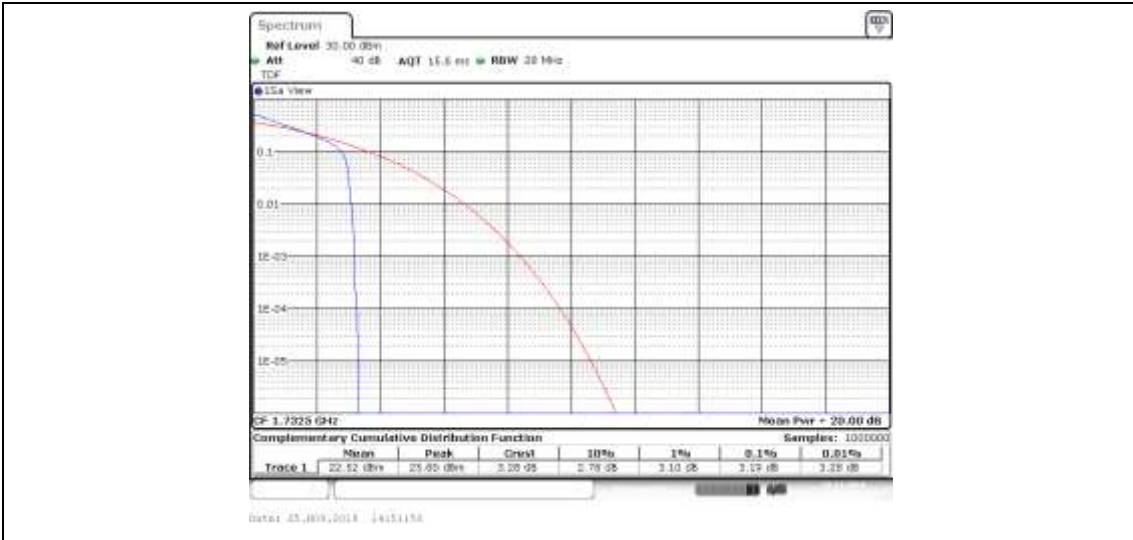
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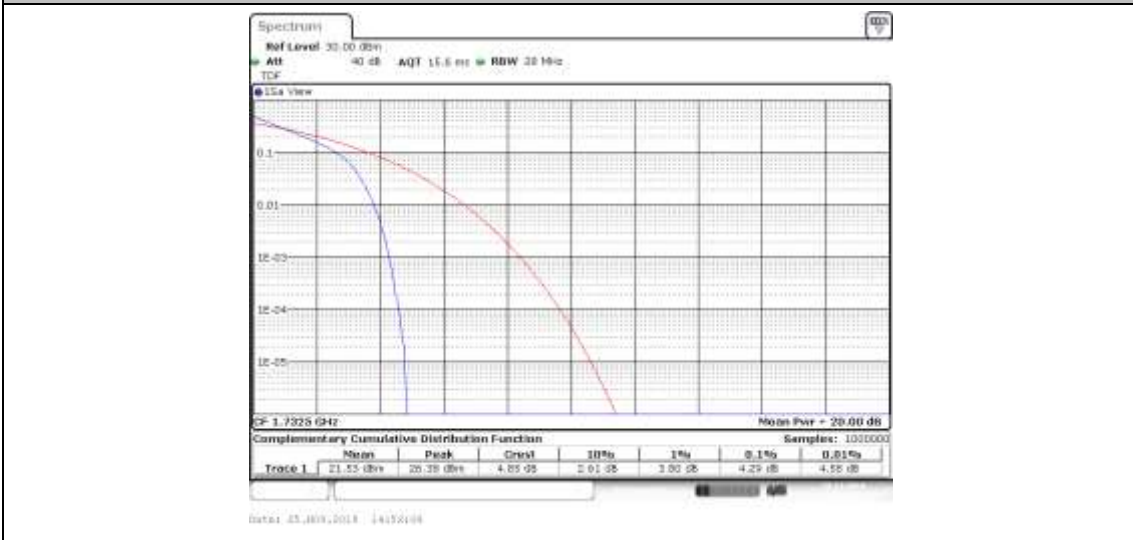
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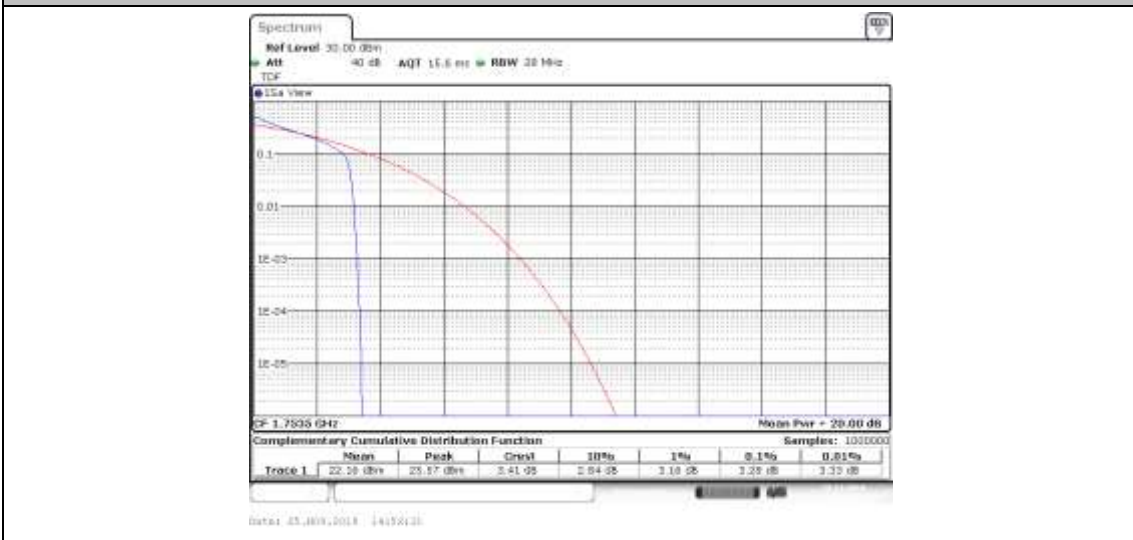
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Band4_3MHz_QPSK_20175_15RB#0



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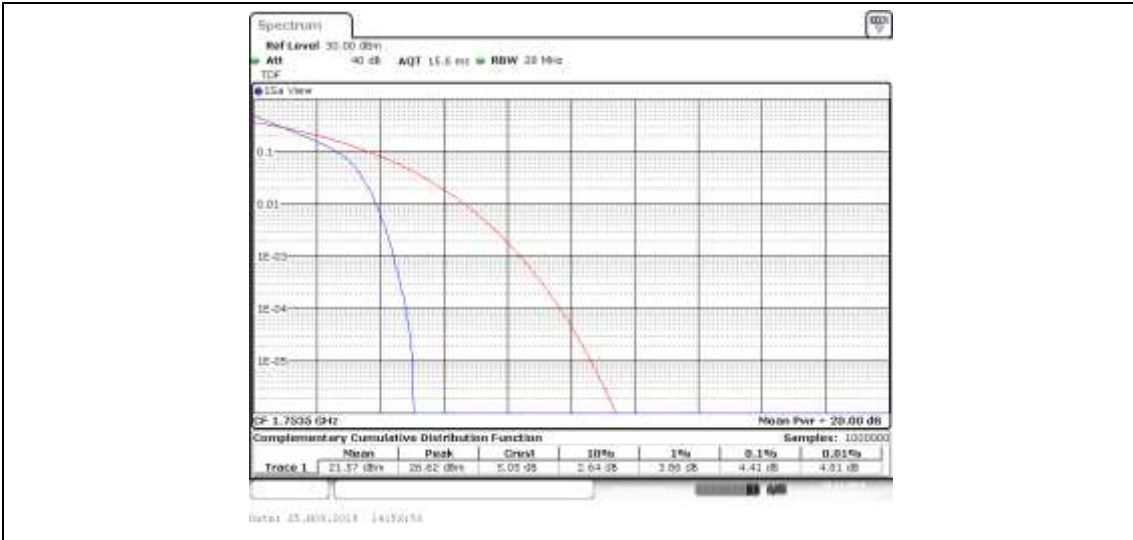
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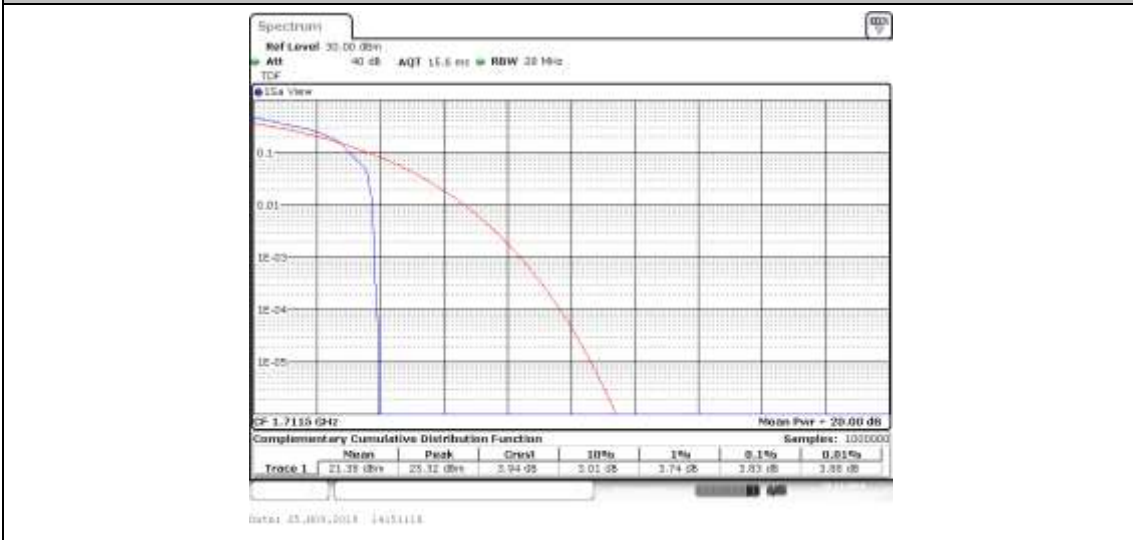
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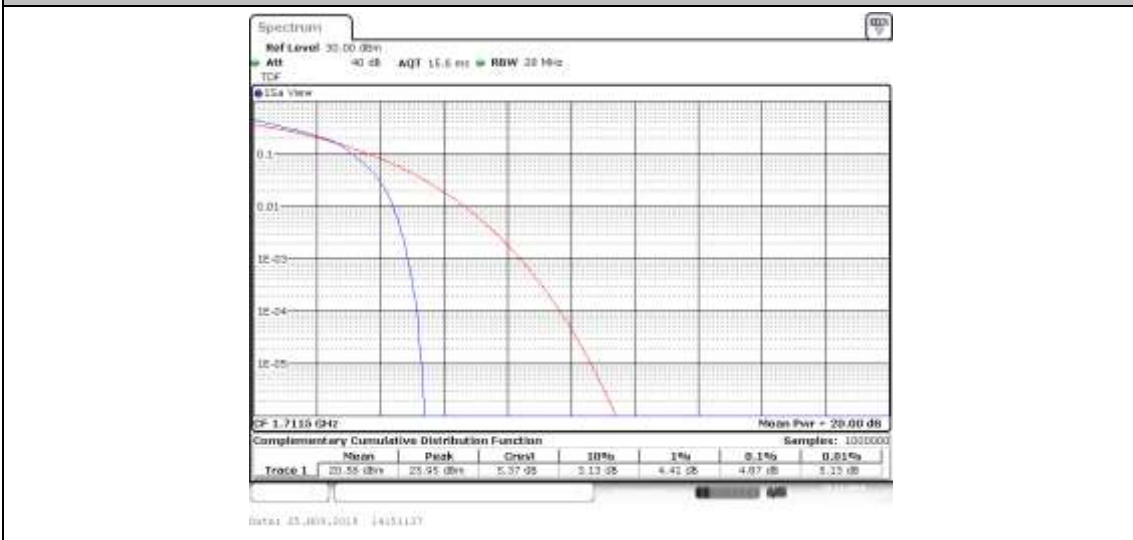
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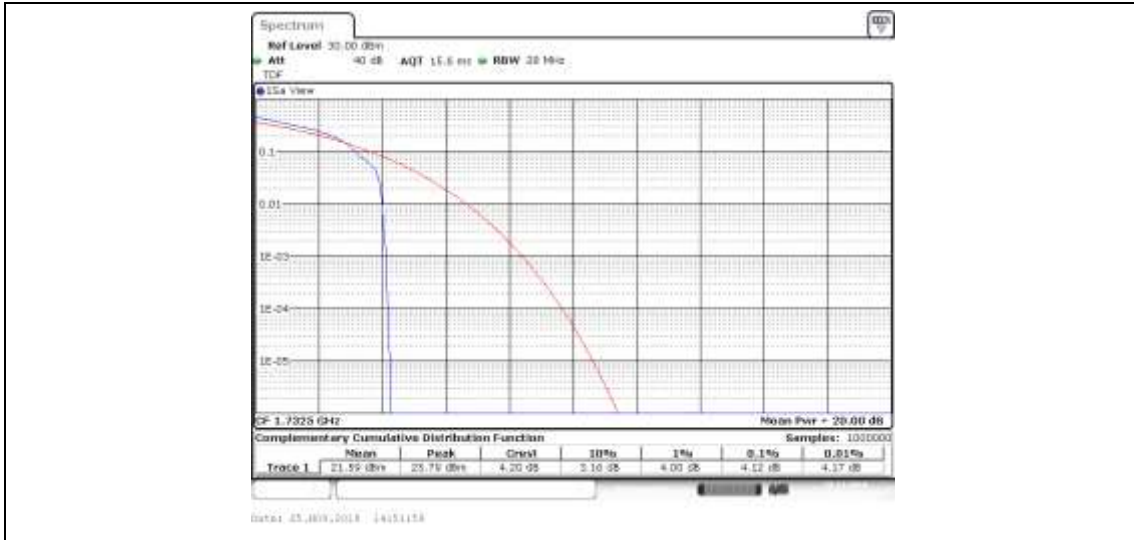
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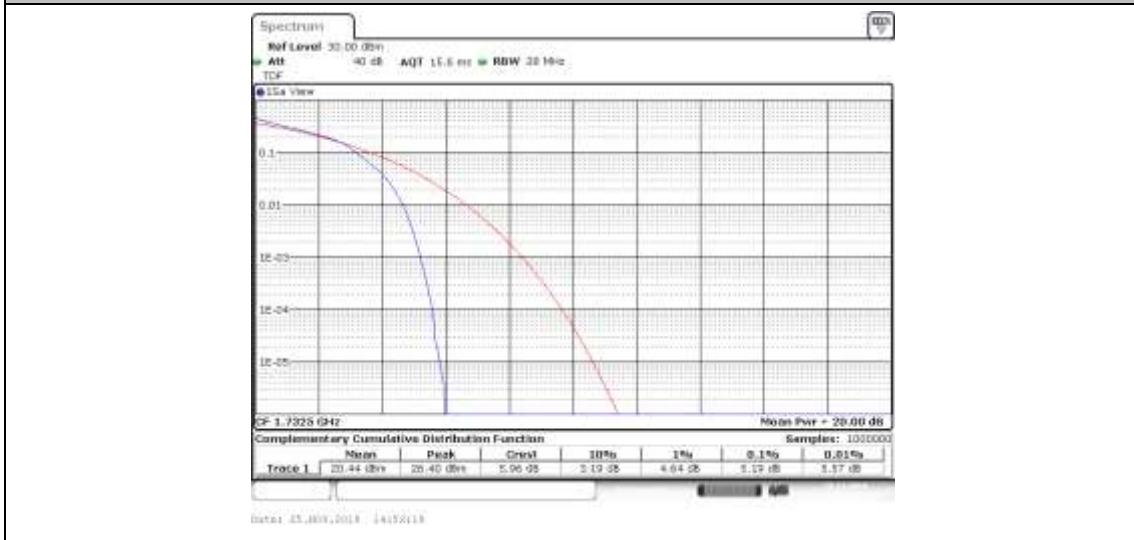
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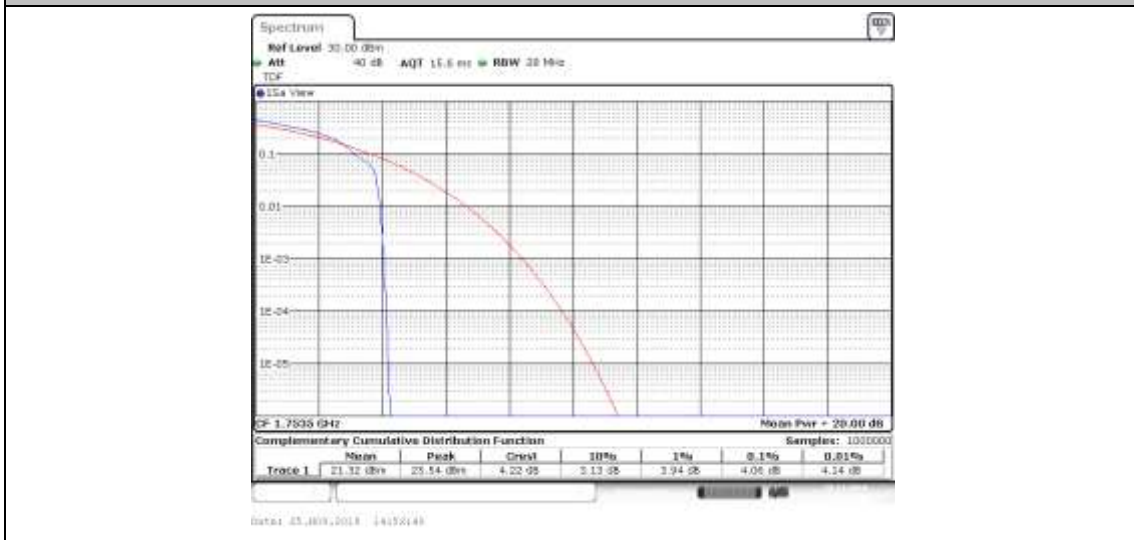
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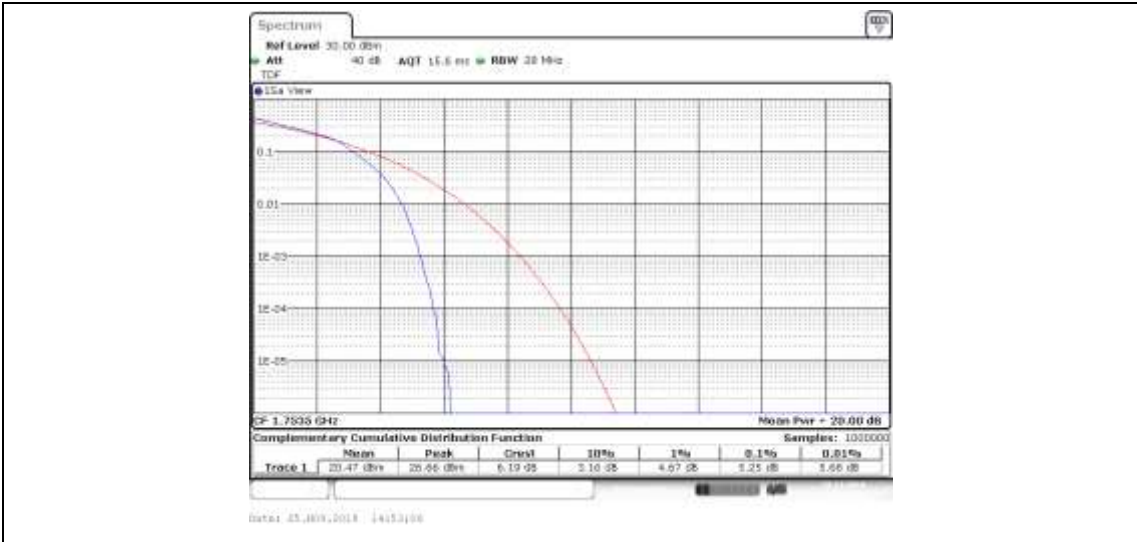


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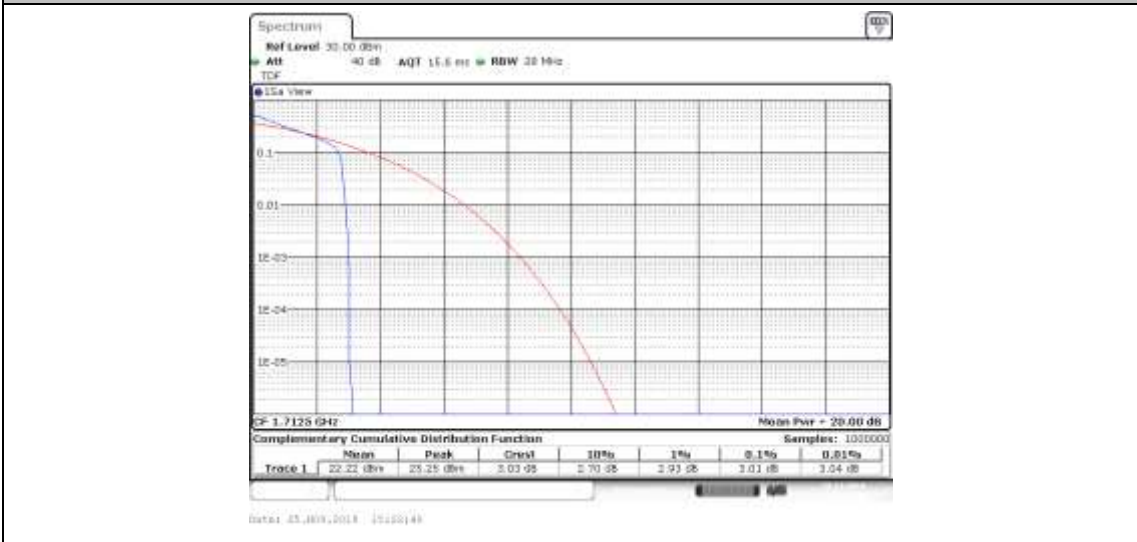
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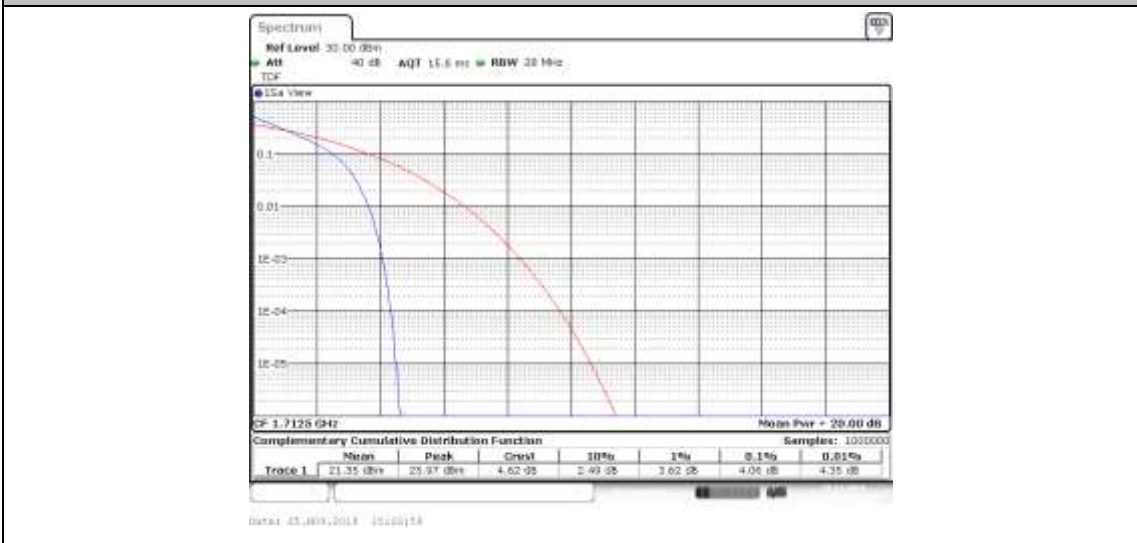
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Band4_5MHz_QPSK_19975_1RB#0



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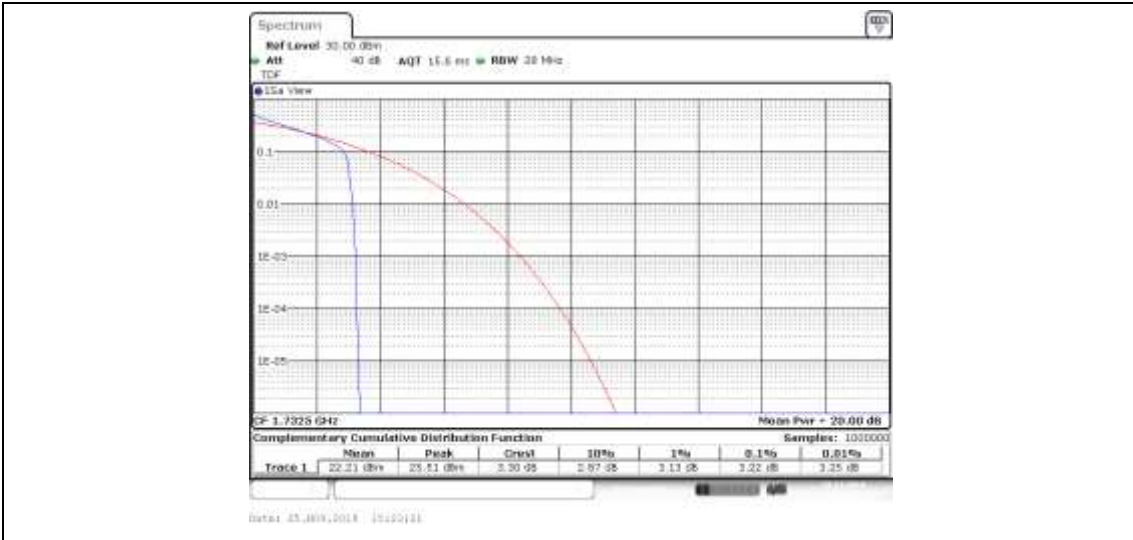
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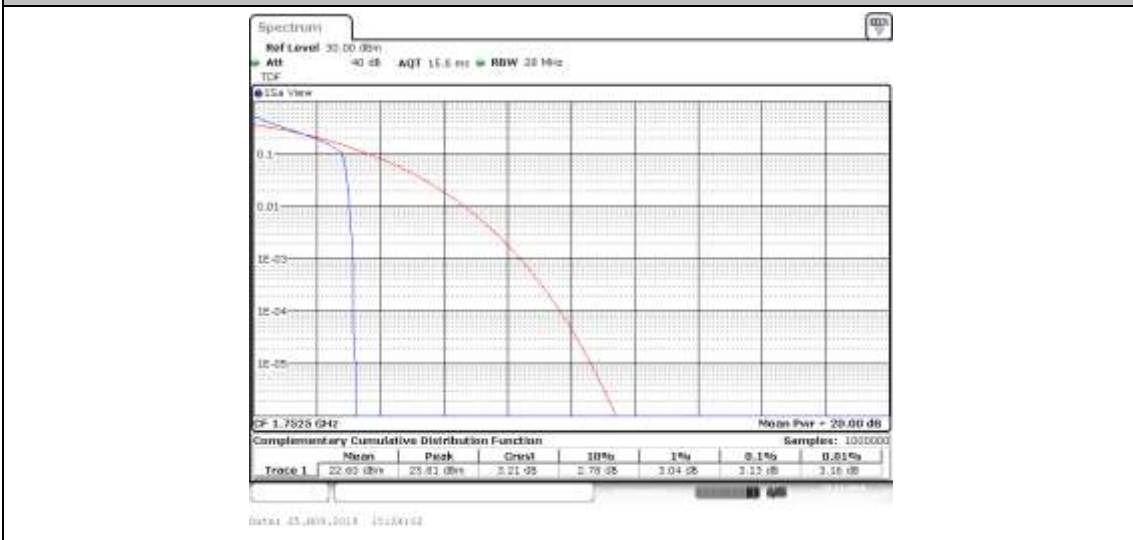
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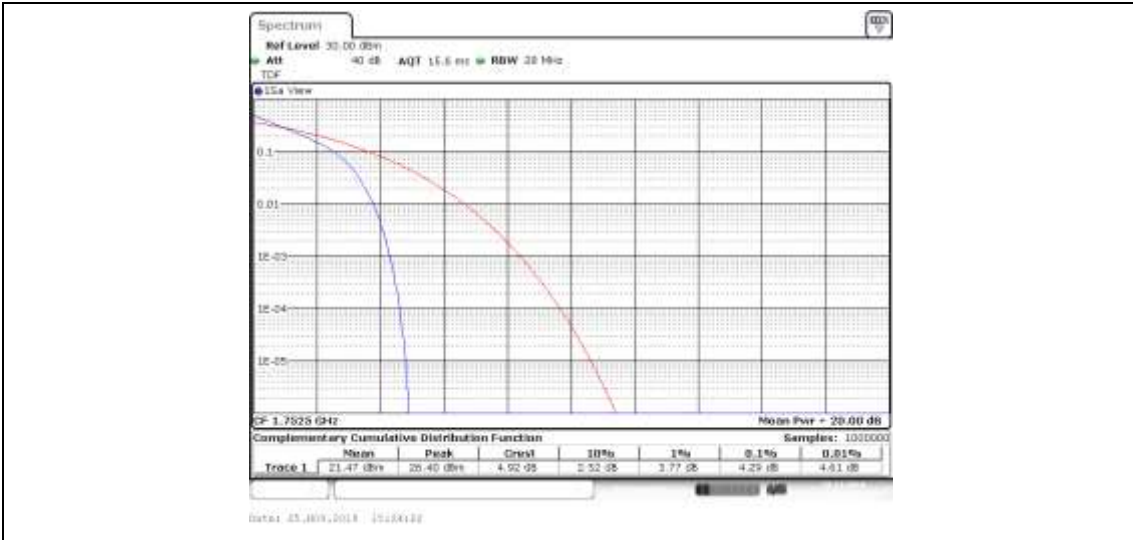
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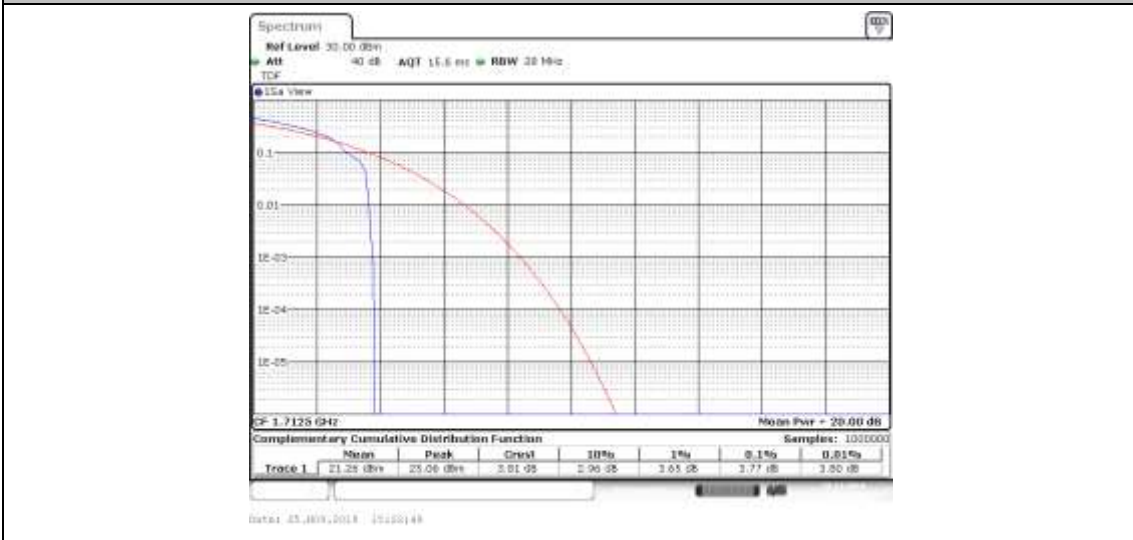
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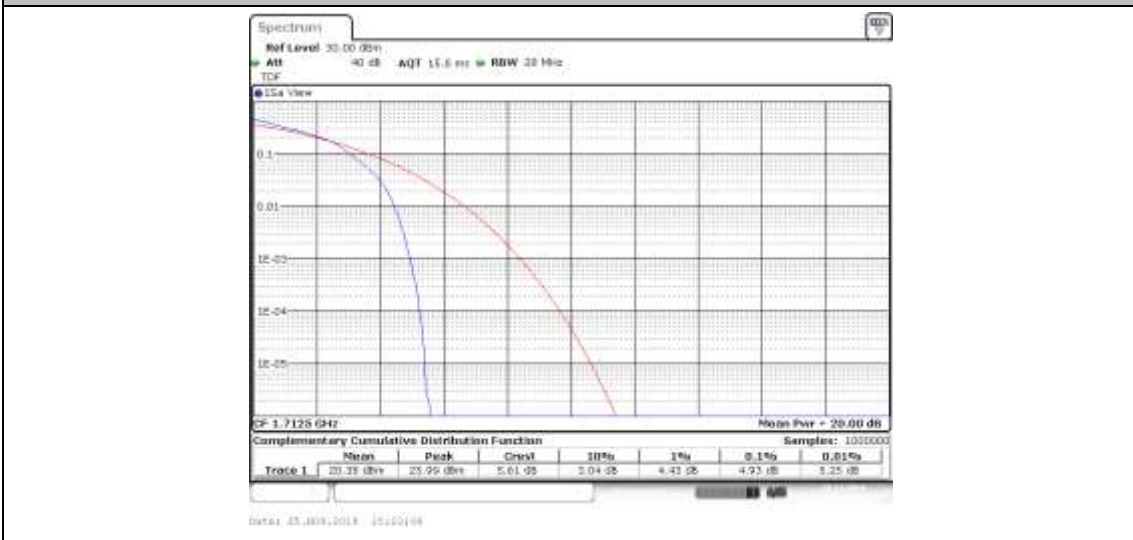
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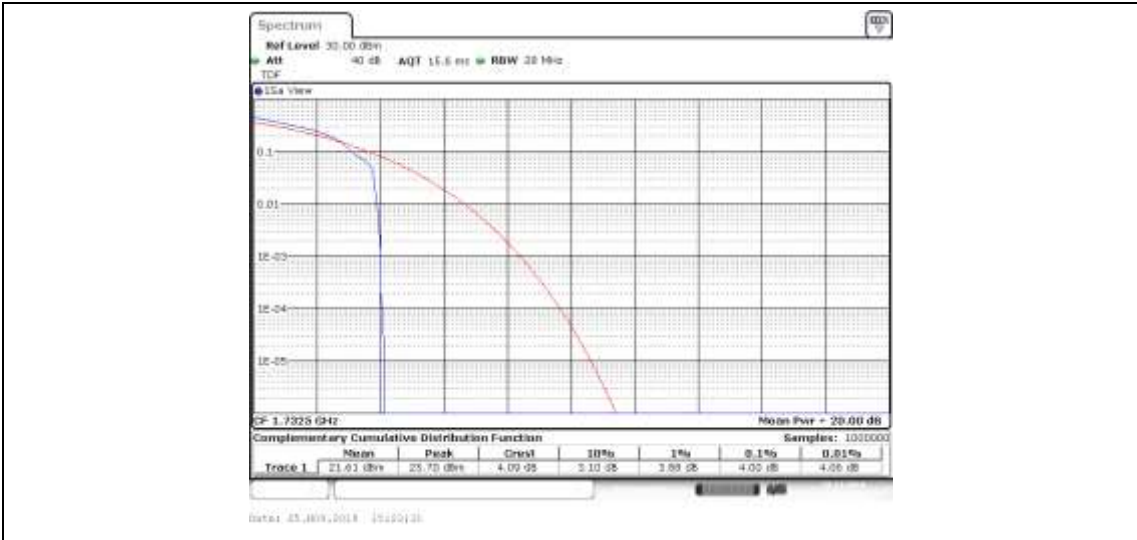
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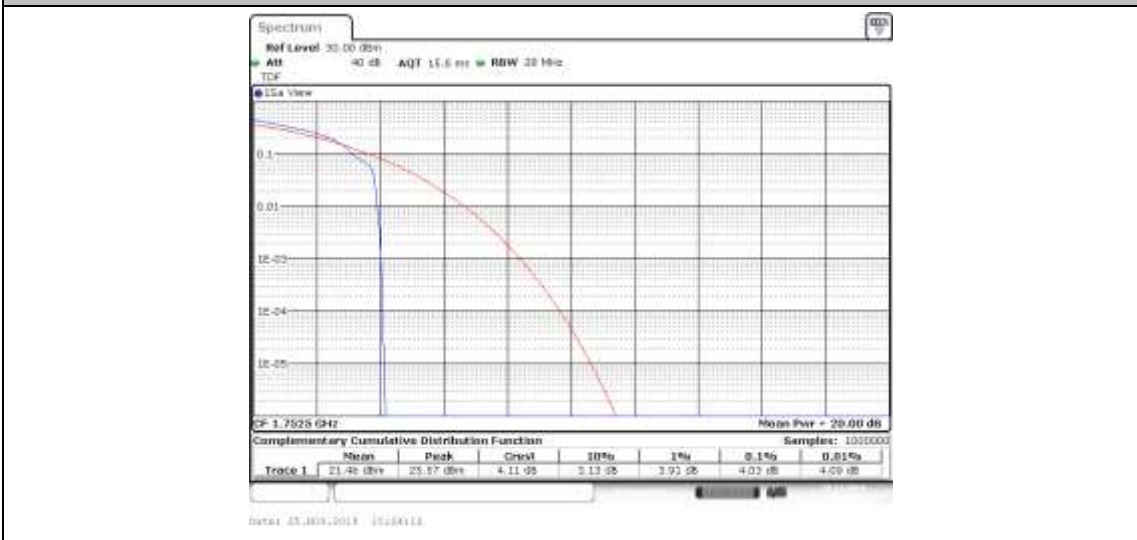
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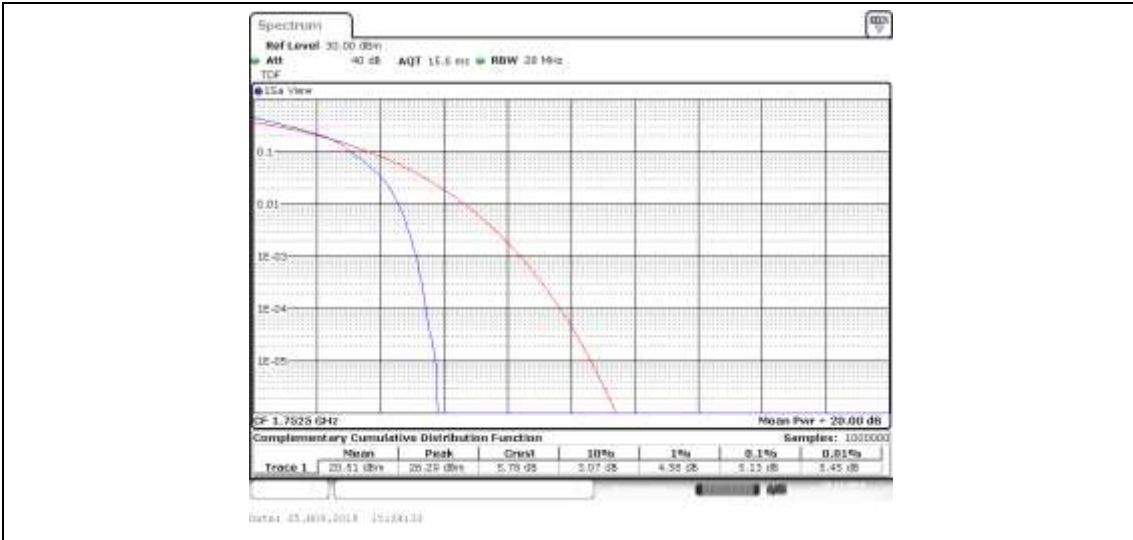
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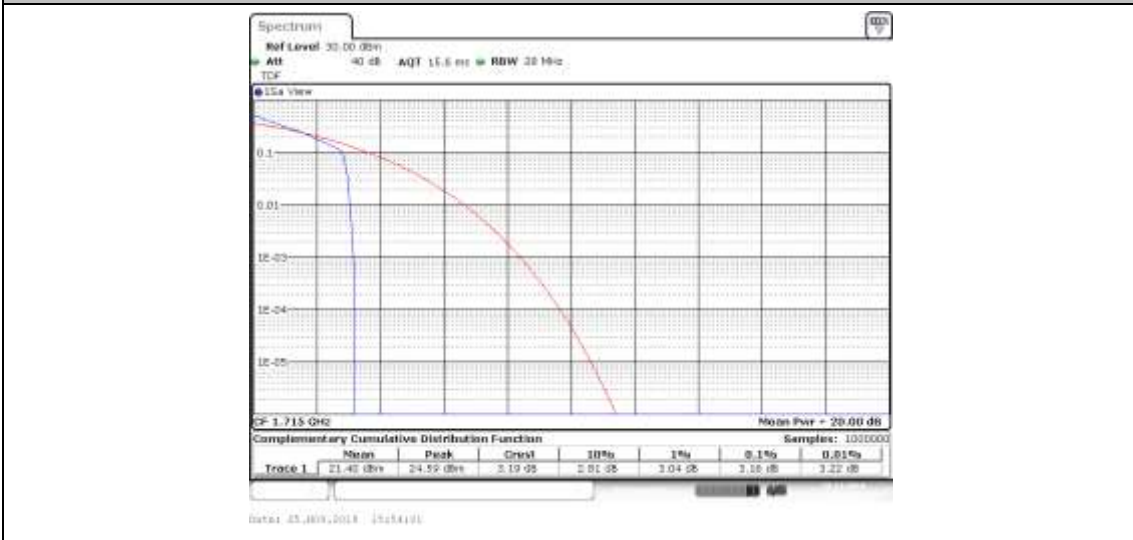
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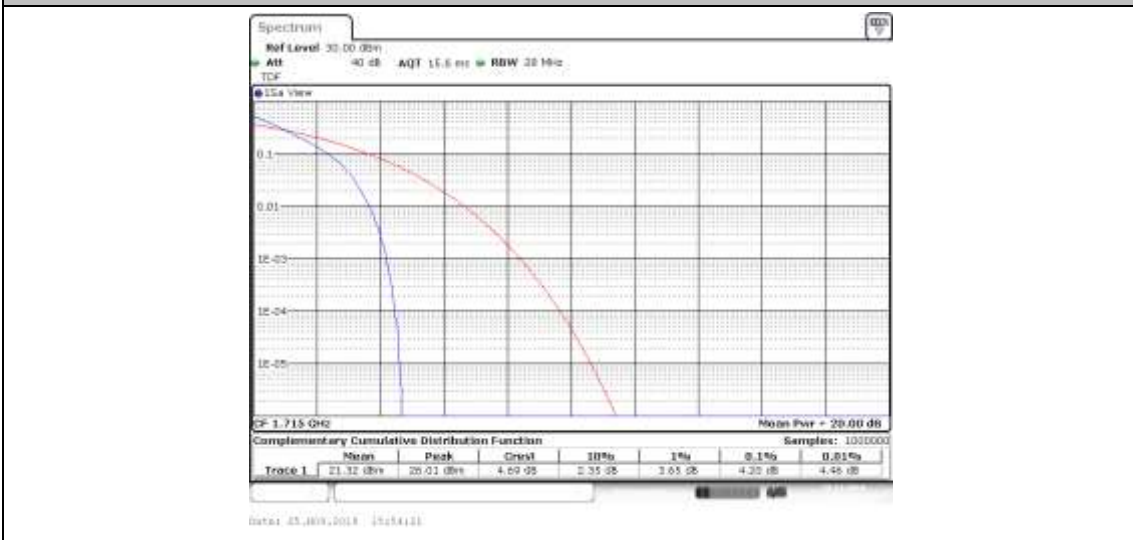
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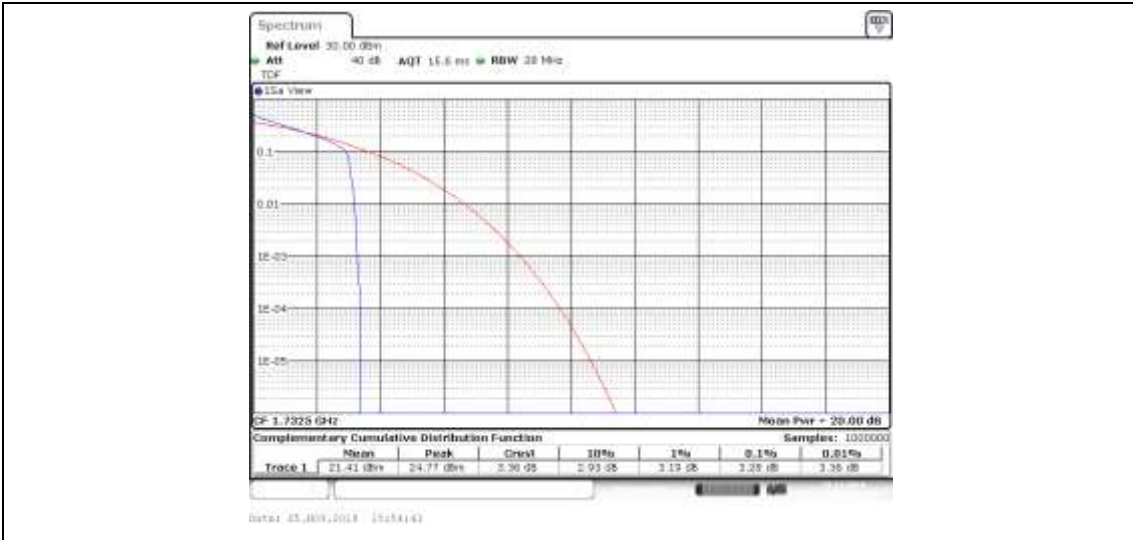
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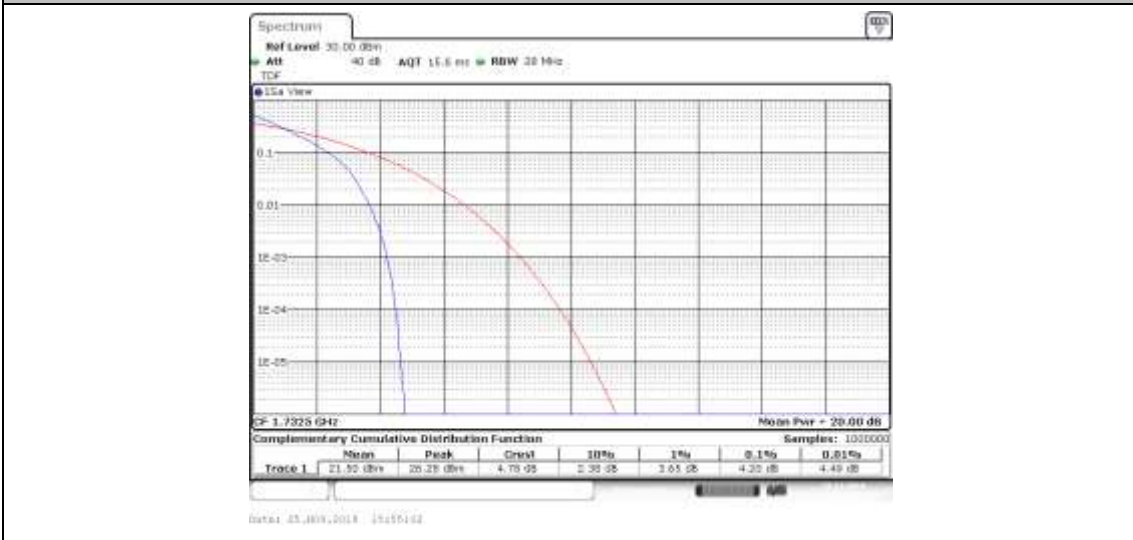
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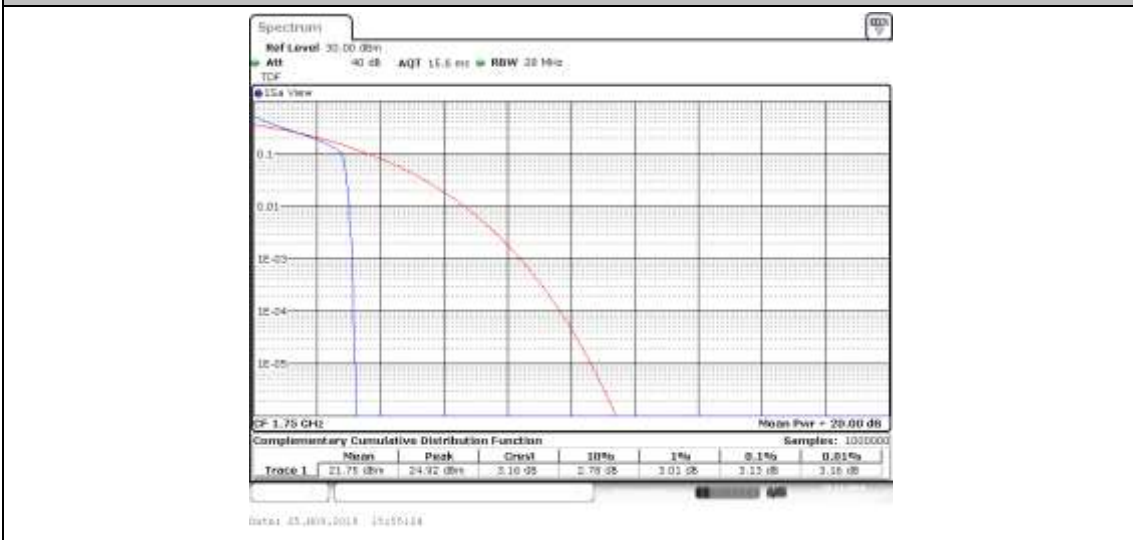
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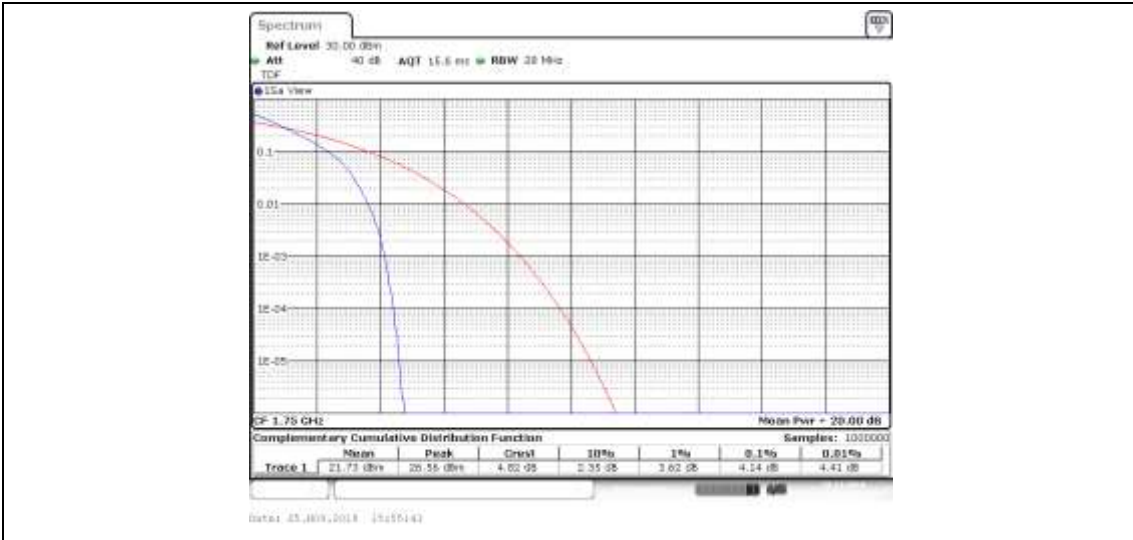
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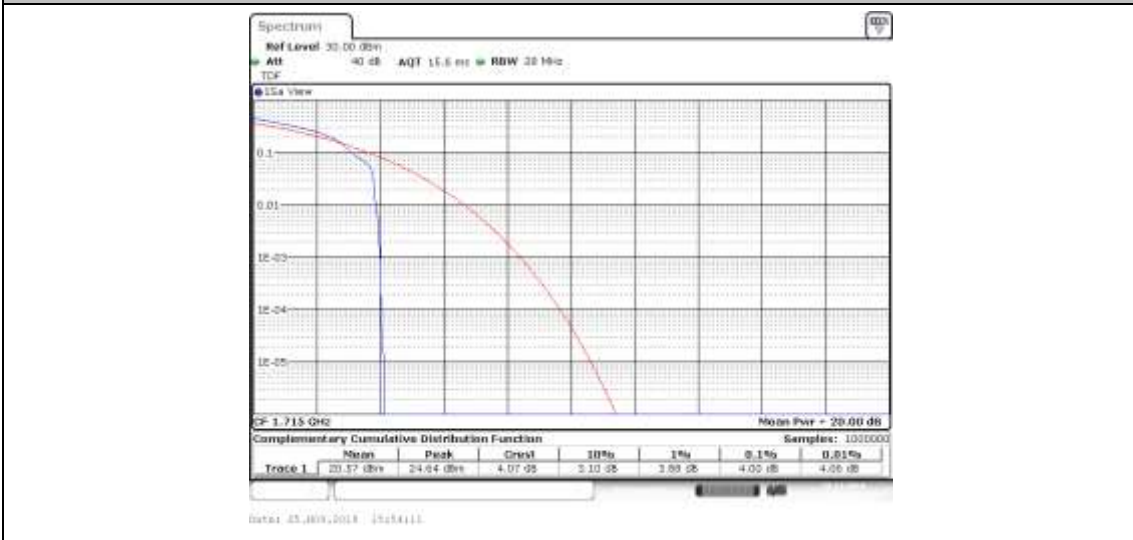
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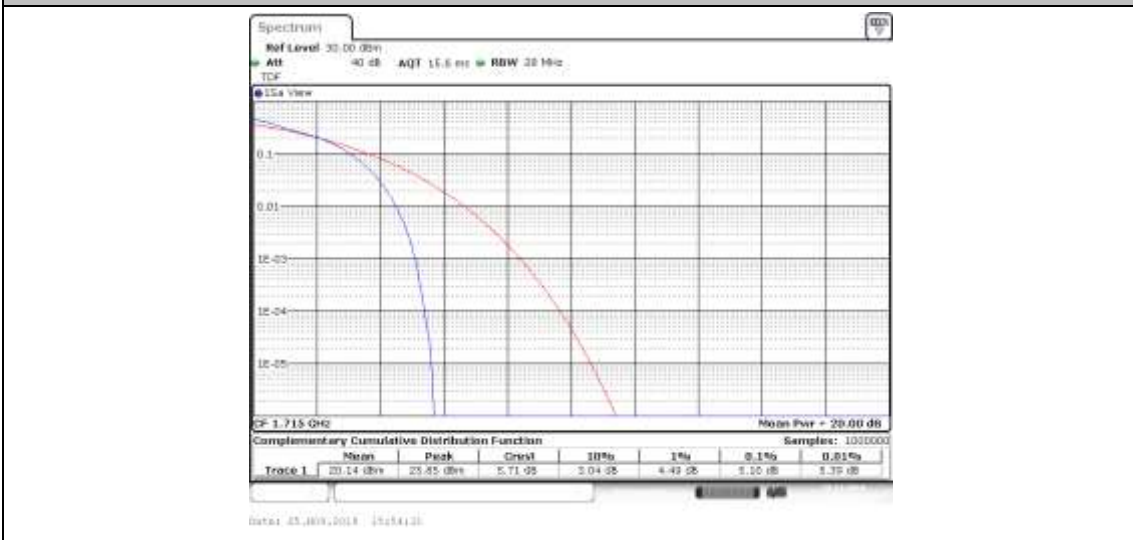
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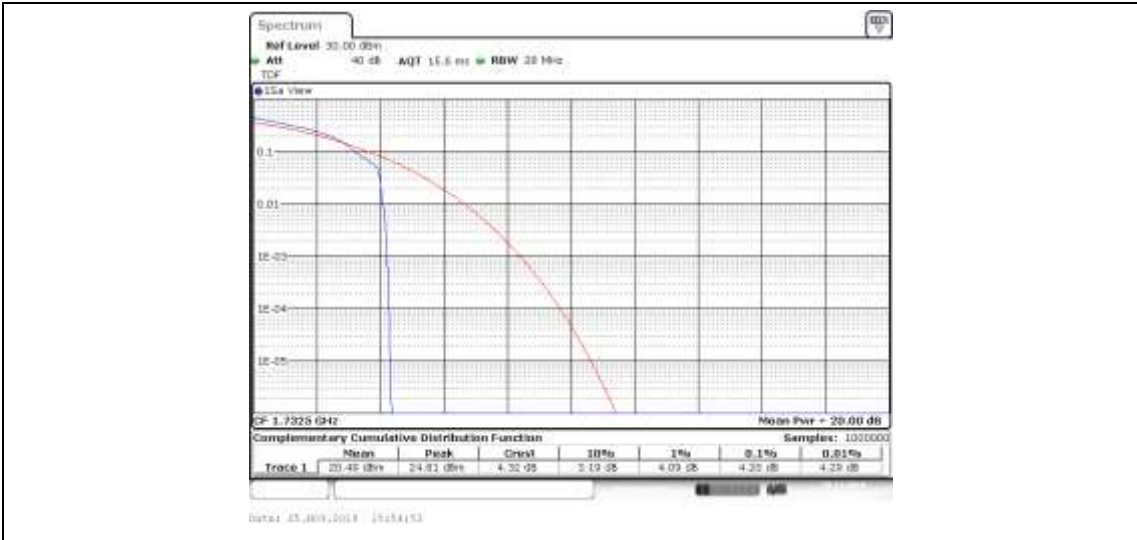
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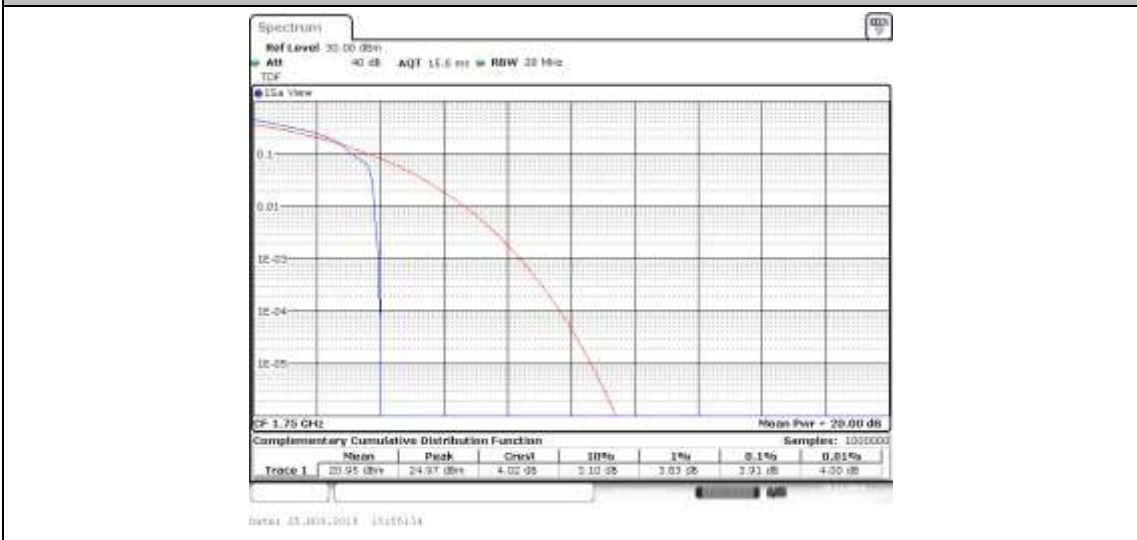
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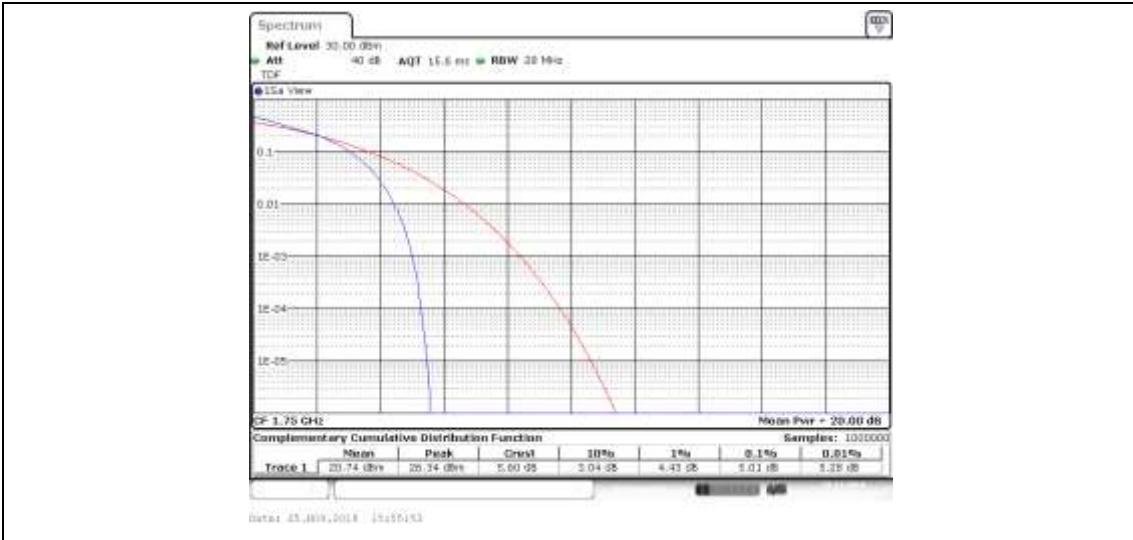
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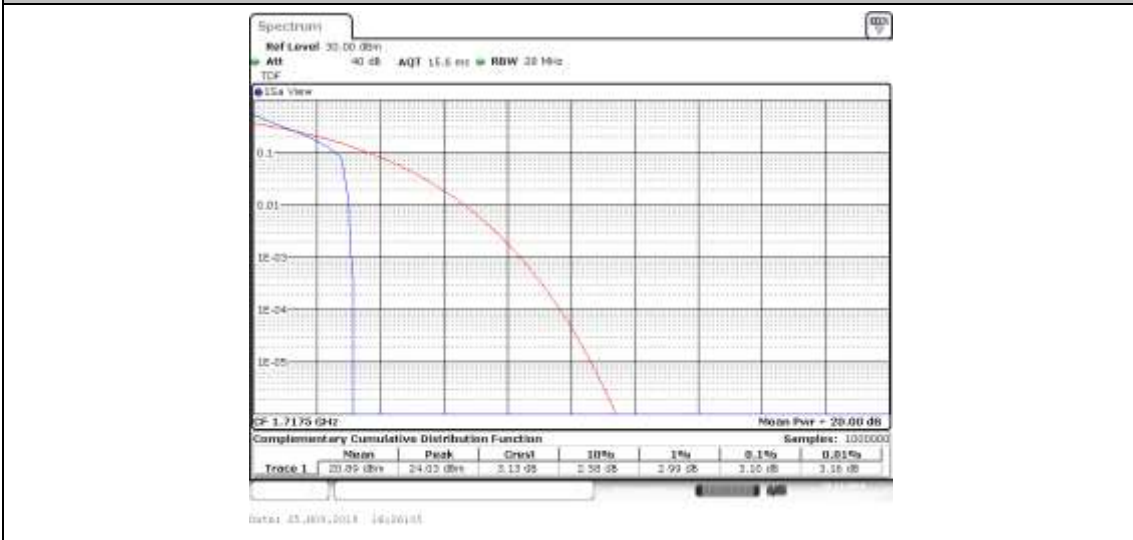
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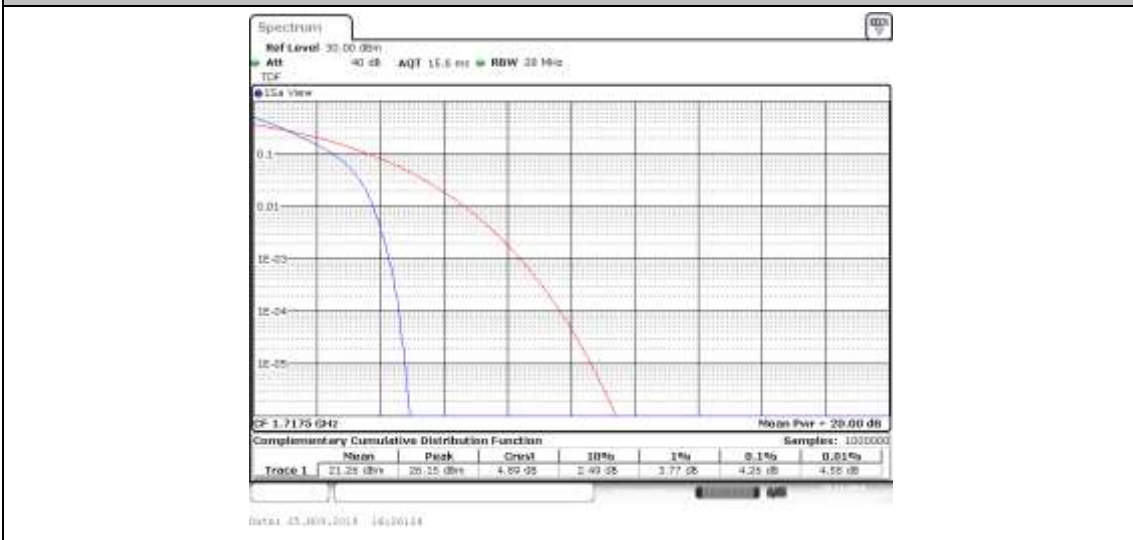
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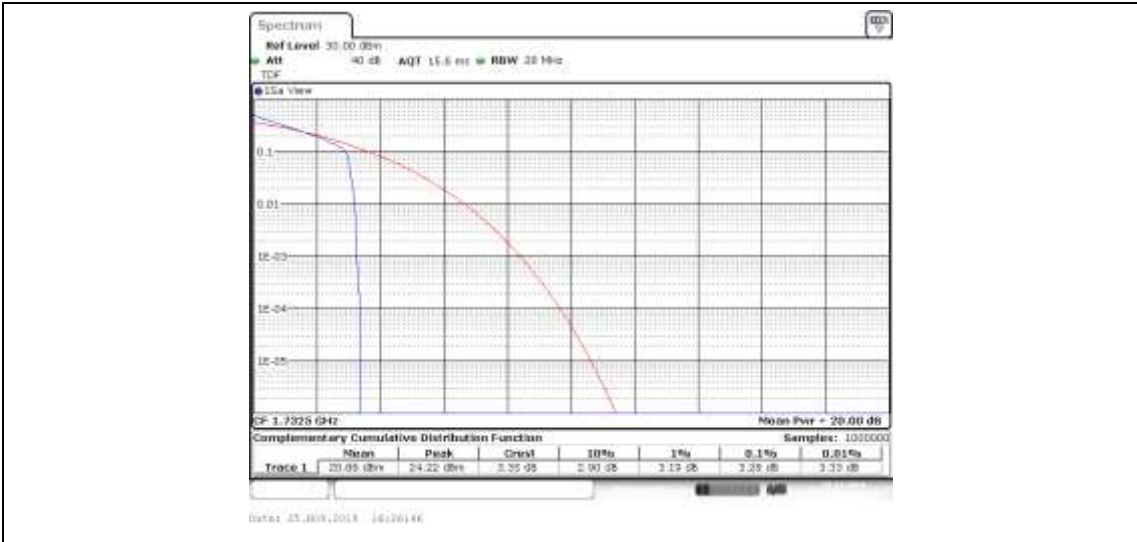
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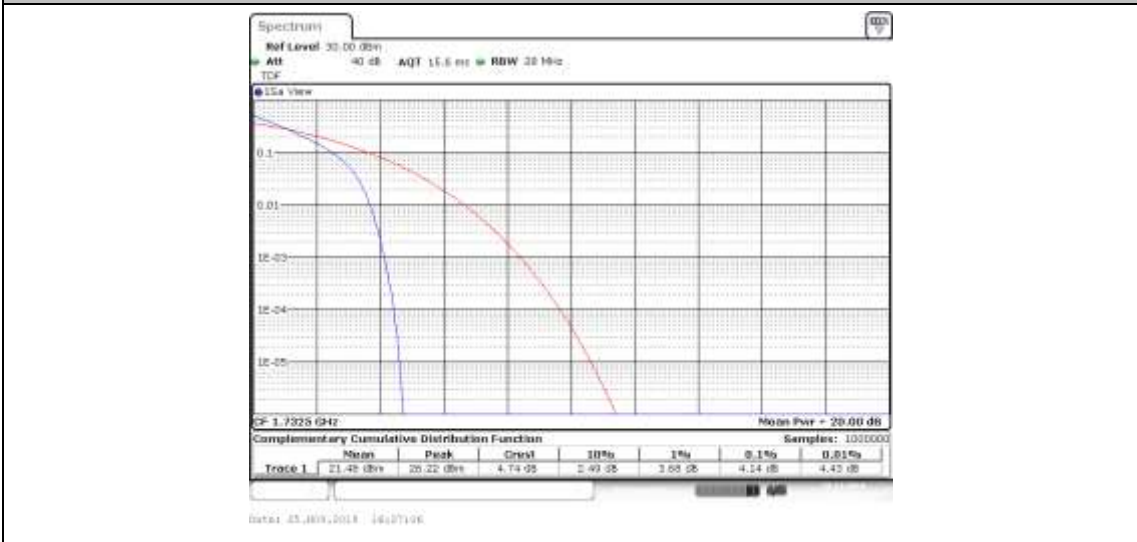
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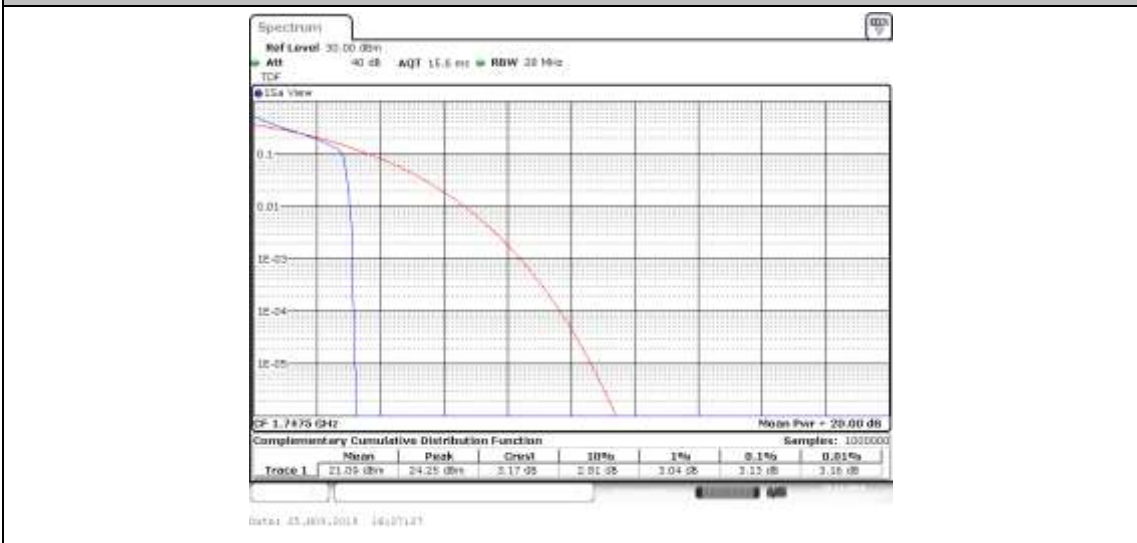
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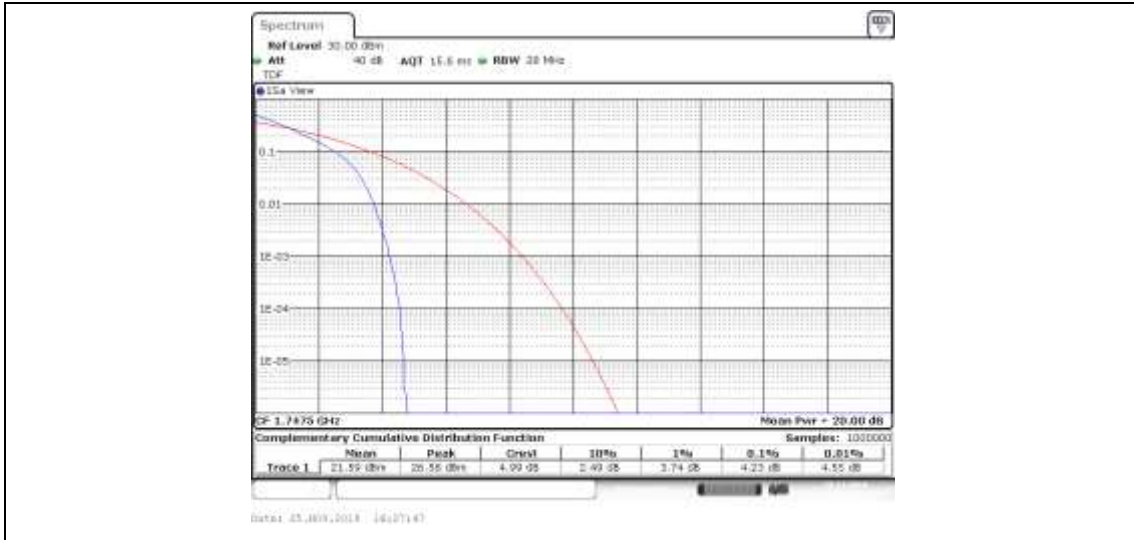
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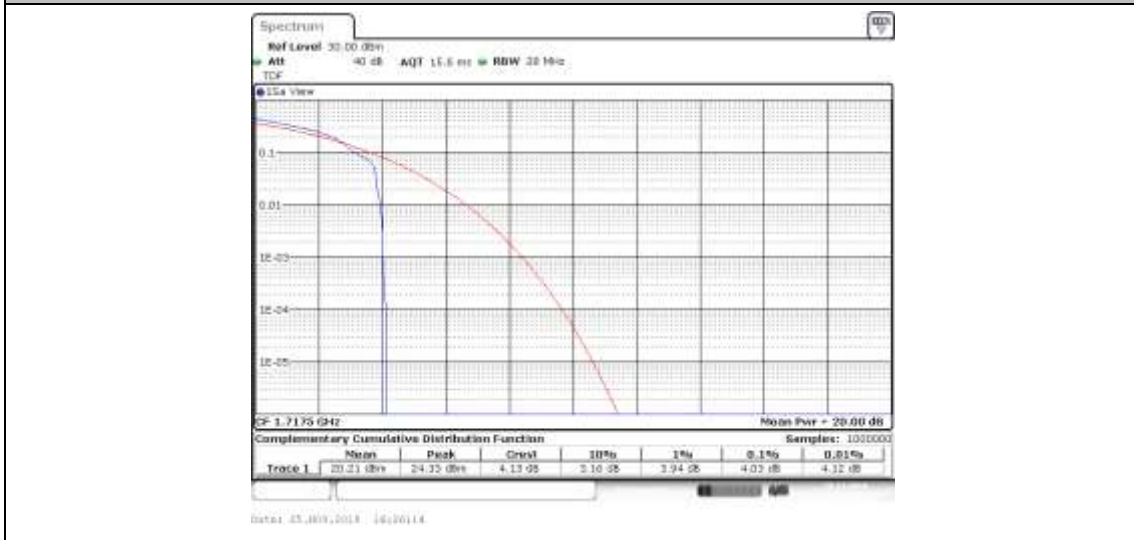
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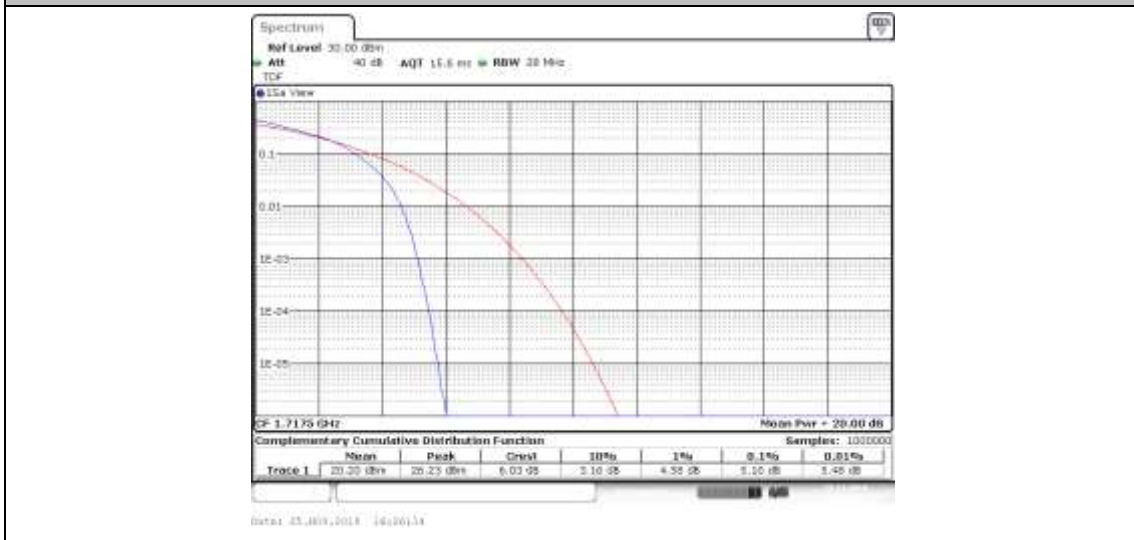
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Band4_15MHz_16QAM_20025_1RB#0



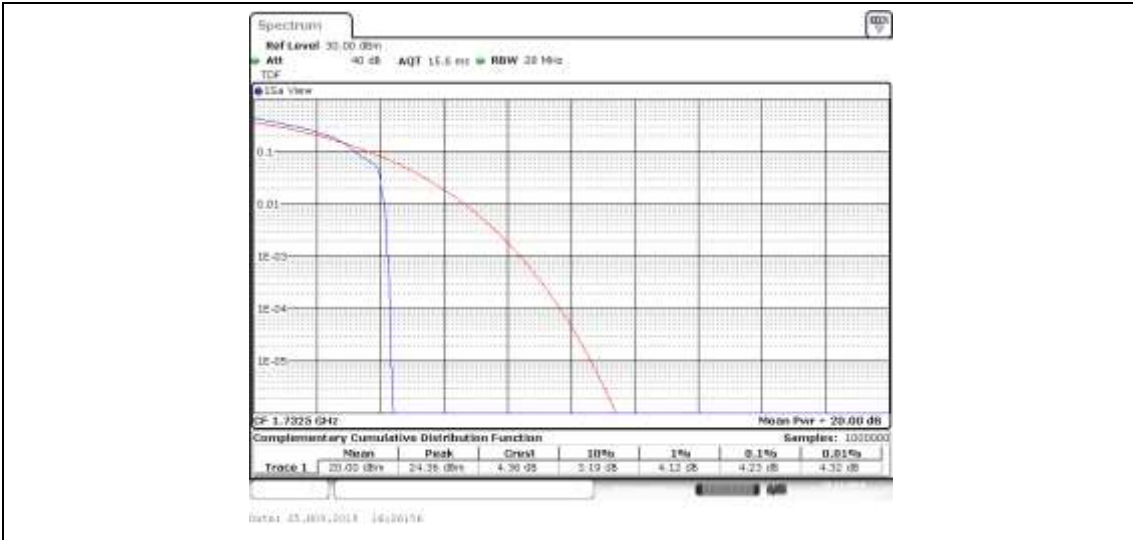
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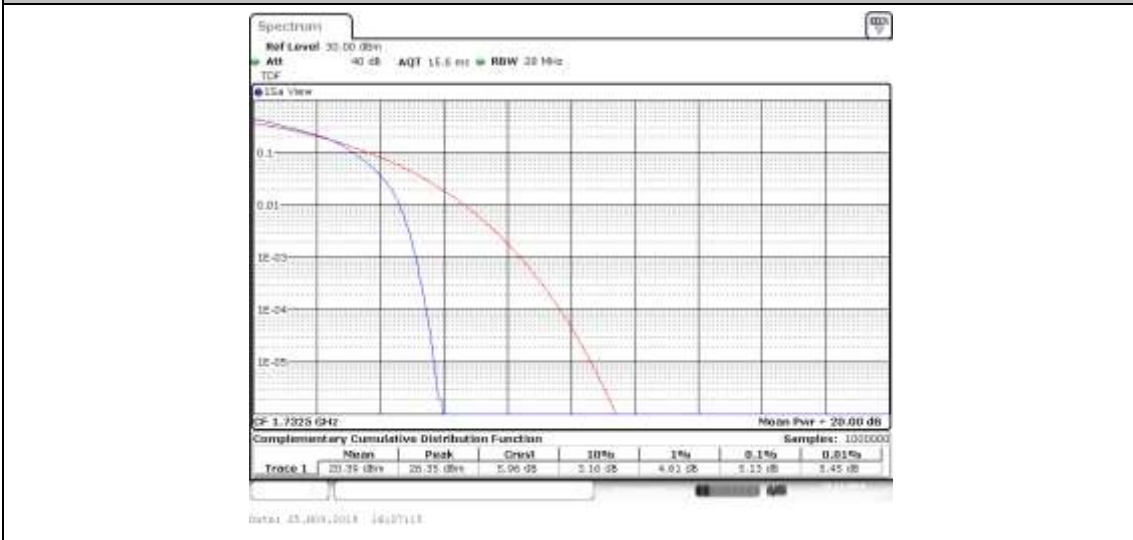
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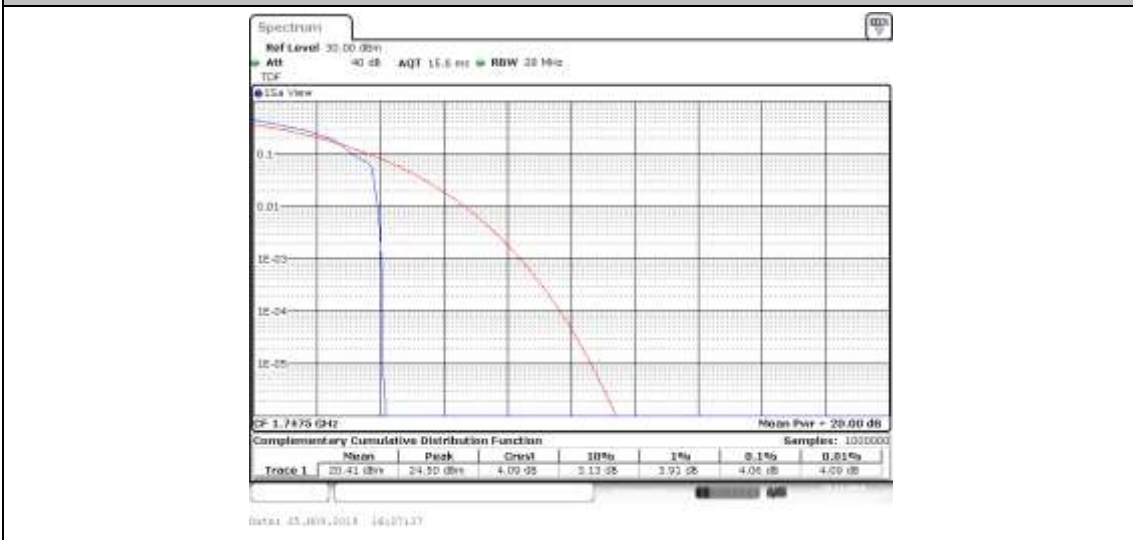
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
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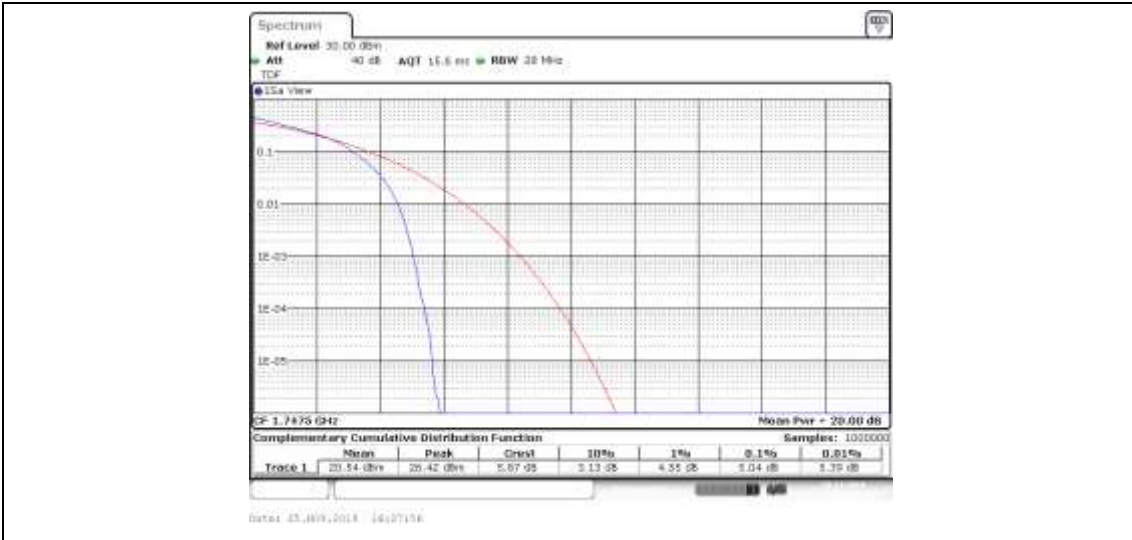
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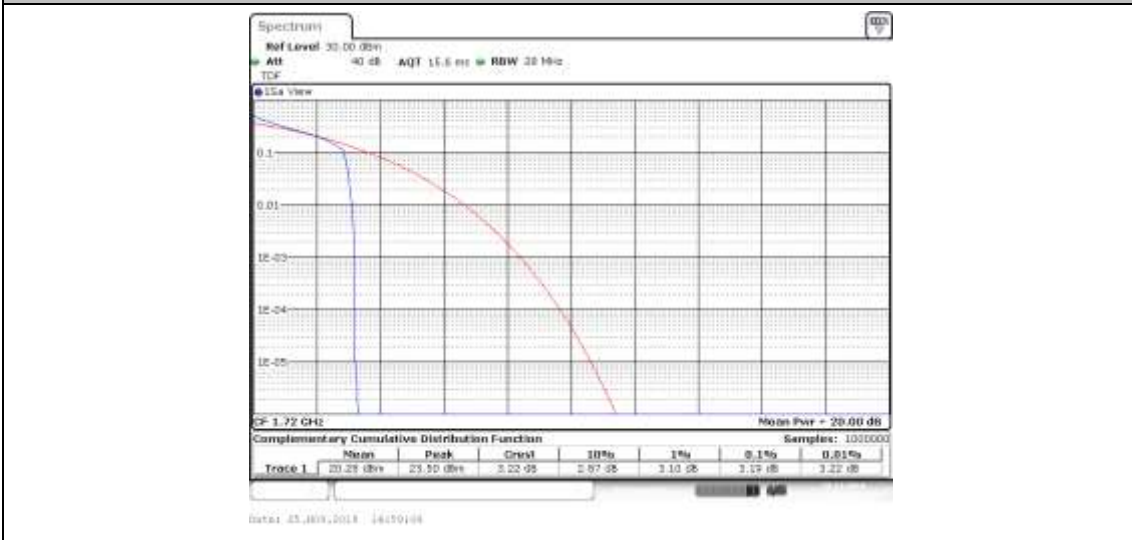
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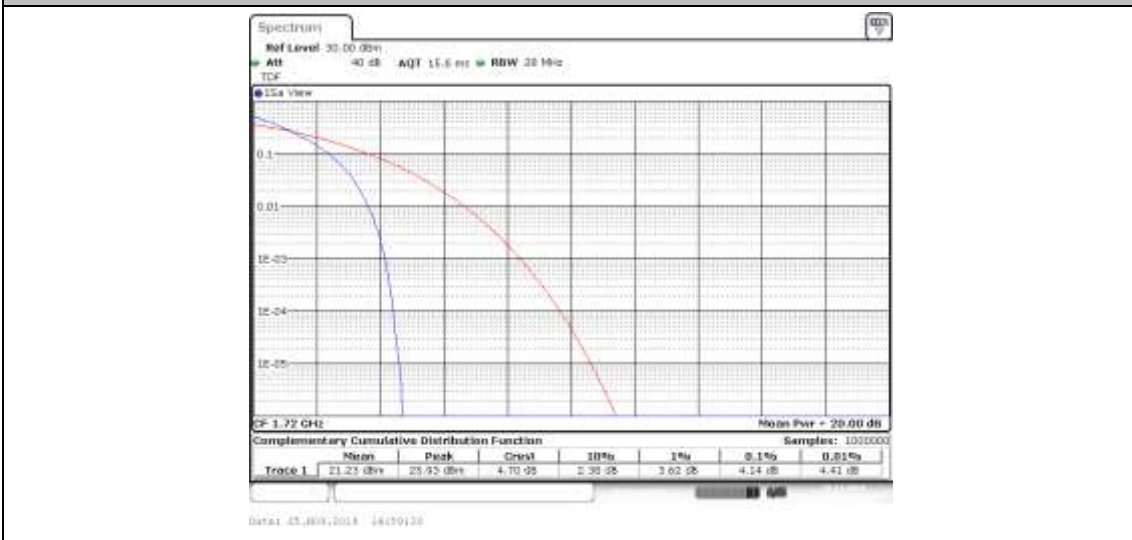
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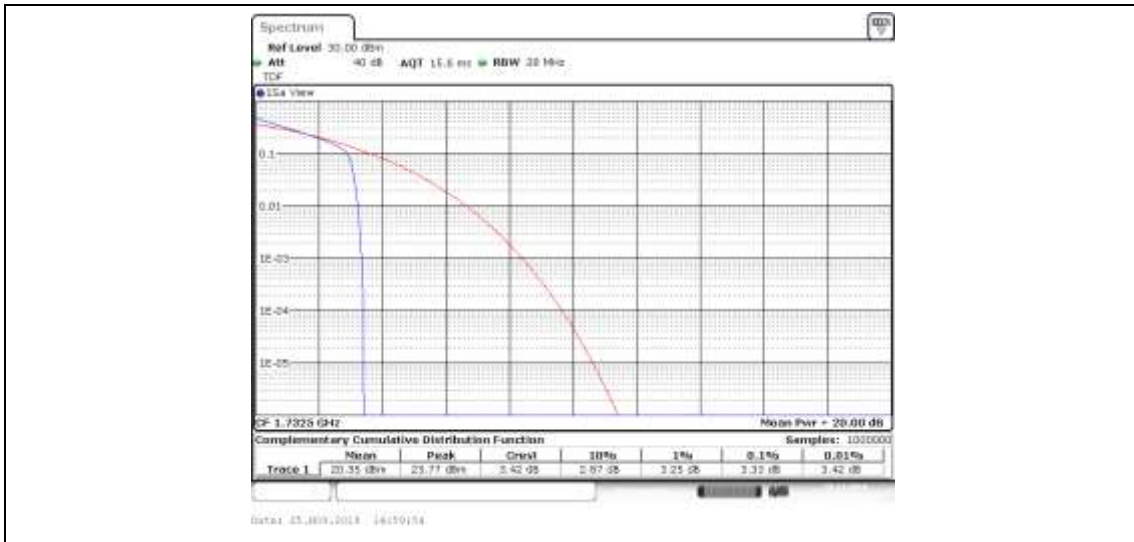
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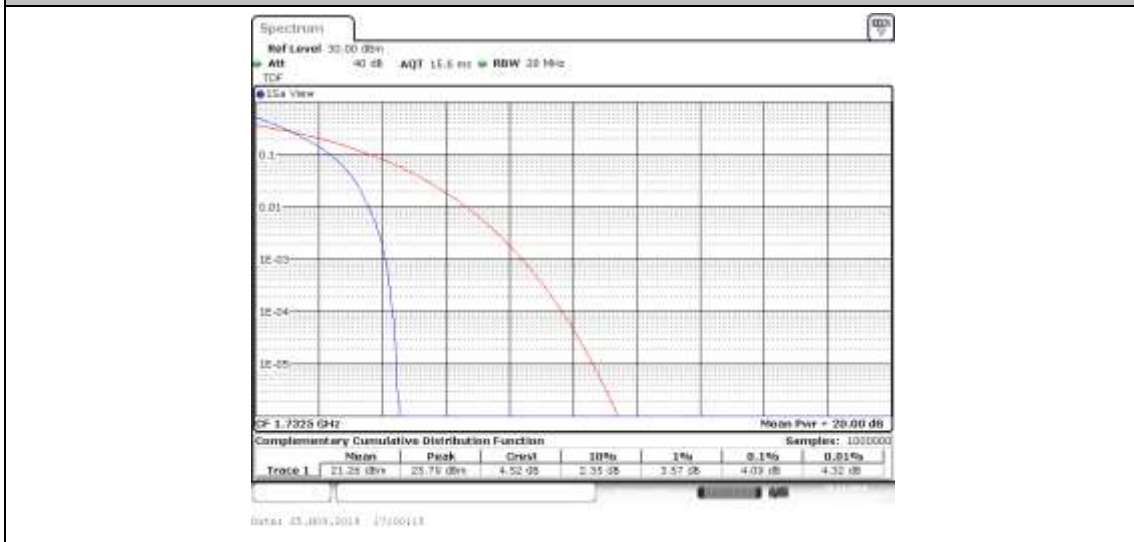
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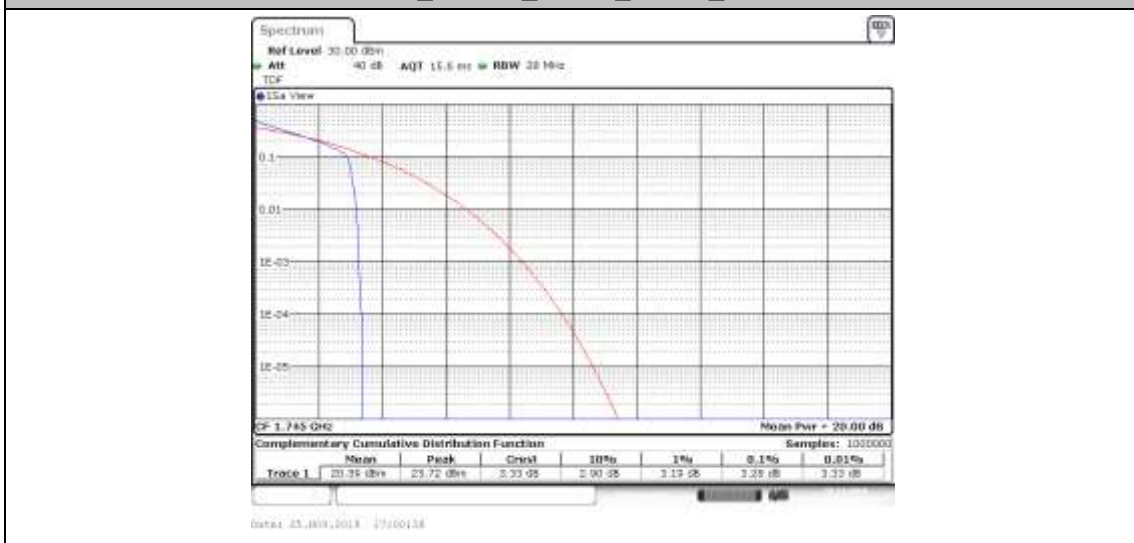
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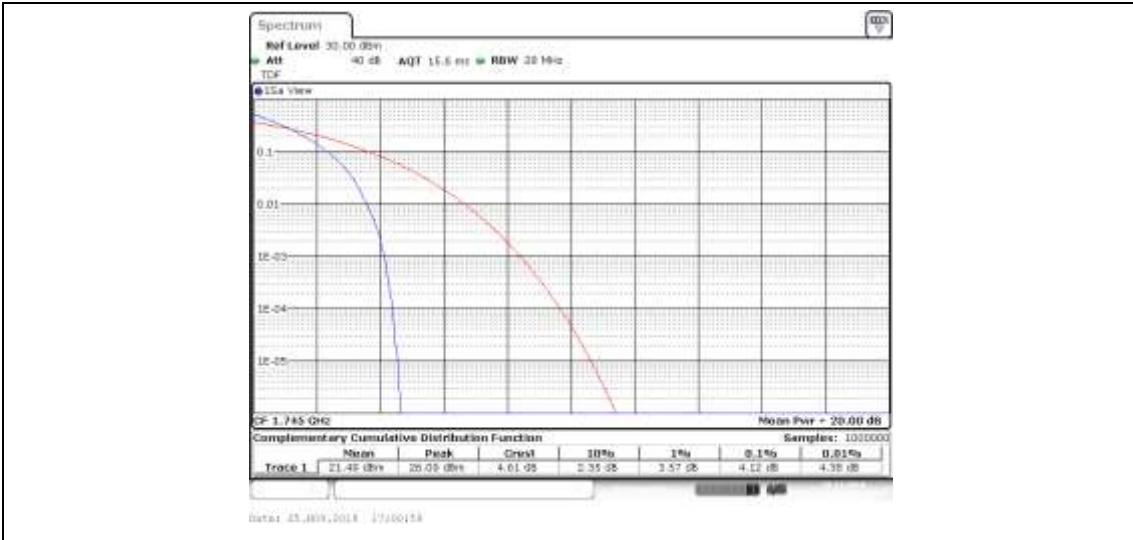
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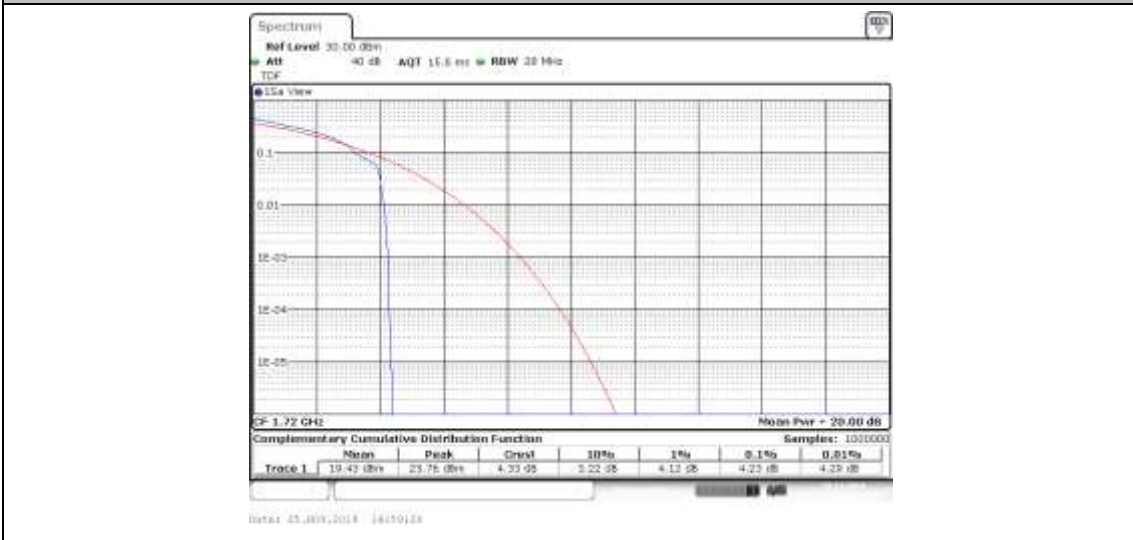
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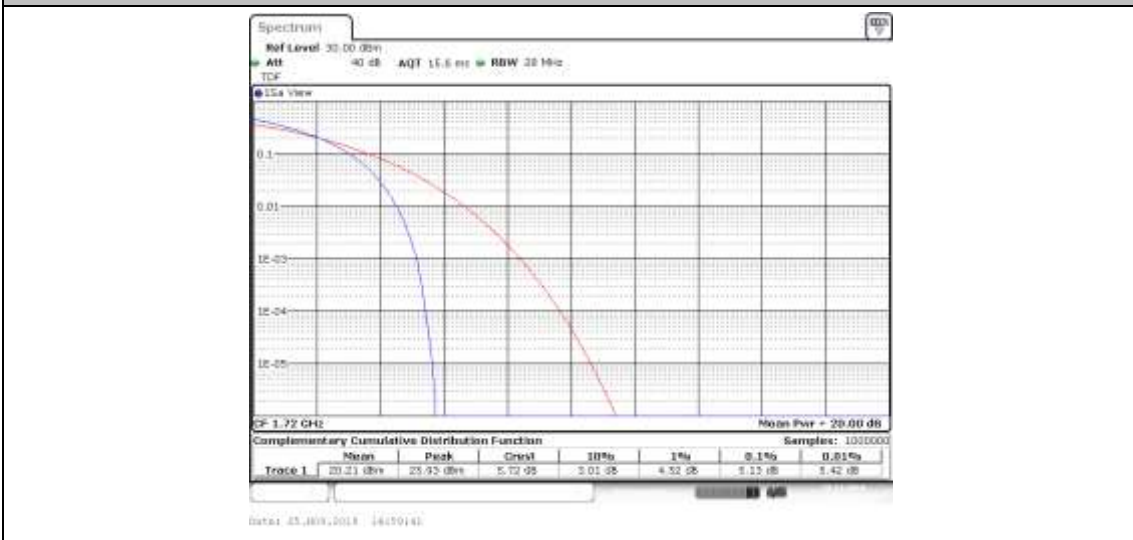
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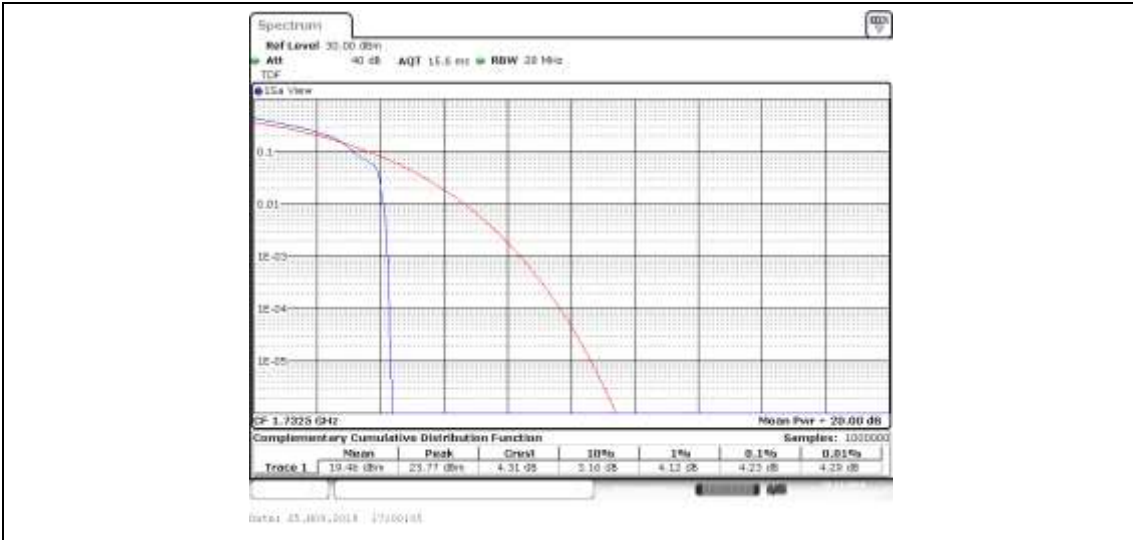
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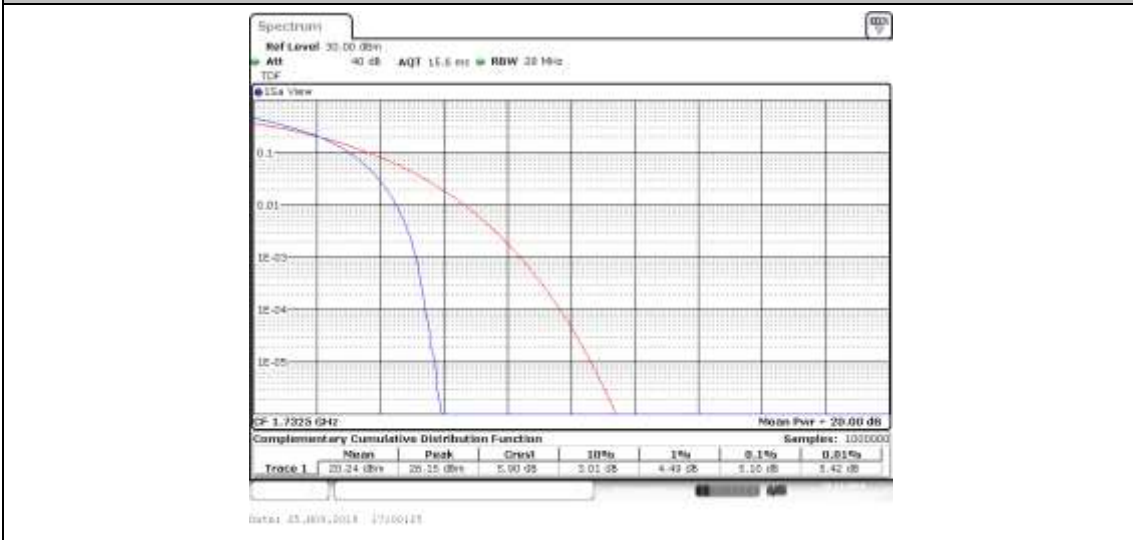
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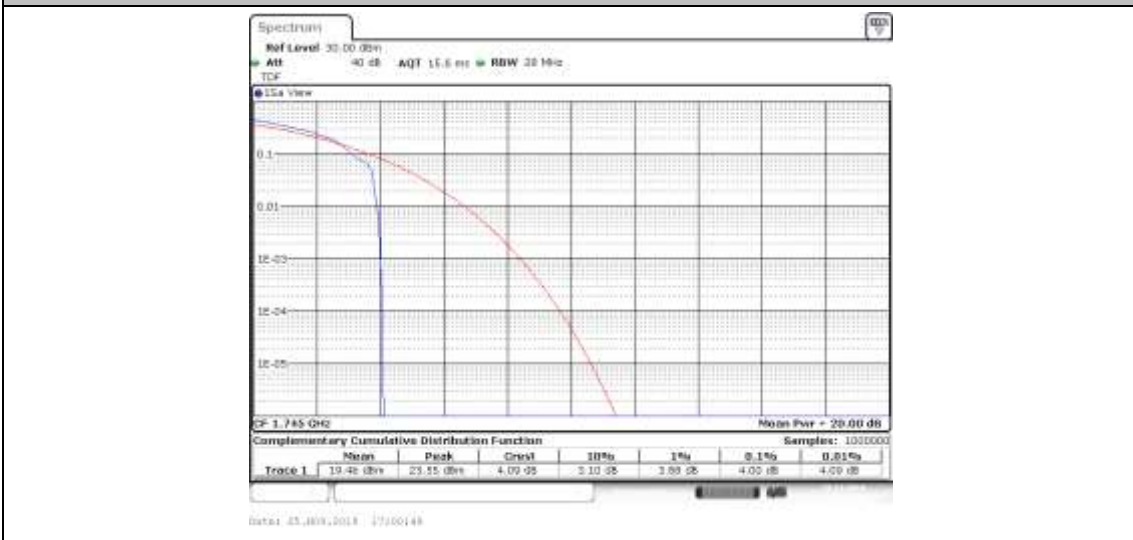
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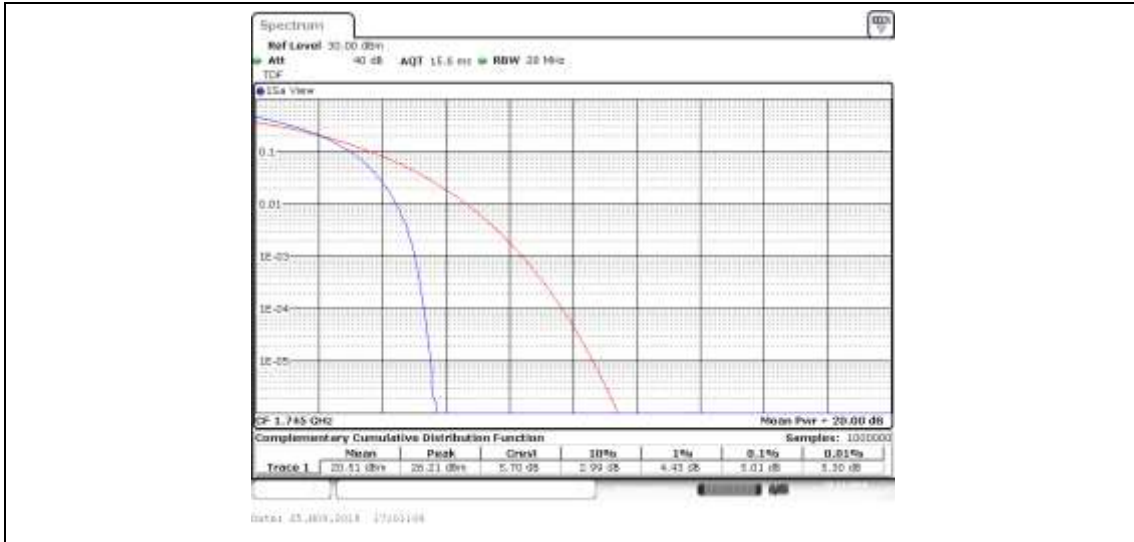
Band4_20MHz_16QAM_20175_100RB#0



Band4_20MHz_16QAM_20300_1RB#0



Band4_20MHz_16QAM_20300_100RB#0



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Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.265	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.093	1.265	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.255	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.270	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.275	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.235	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	2.910	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.705	2.890	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.900	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	2.920	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.890	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	2.880	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.496	4.810	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.496	4.790	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.496	4.840	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.496	4.790	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.505	4.800	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.780	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.952	9.533	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.952	9.567	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.952	9.600	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.918	9.533	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.918	9.533	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.918	9.533	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.378	14.300	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.478	14.350	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.428	14.350	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.378	14.300	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.428	14.300	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.378	14.300	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.97	19.333	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.97	19.333	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.97	19.333	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.97	19.333	PASS

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Band4	20MHz	16QAM	20175	100RB#0	17.97	19.333	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.97	19.333	PASS

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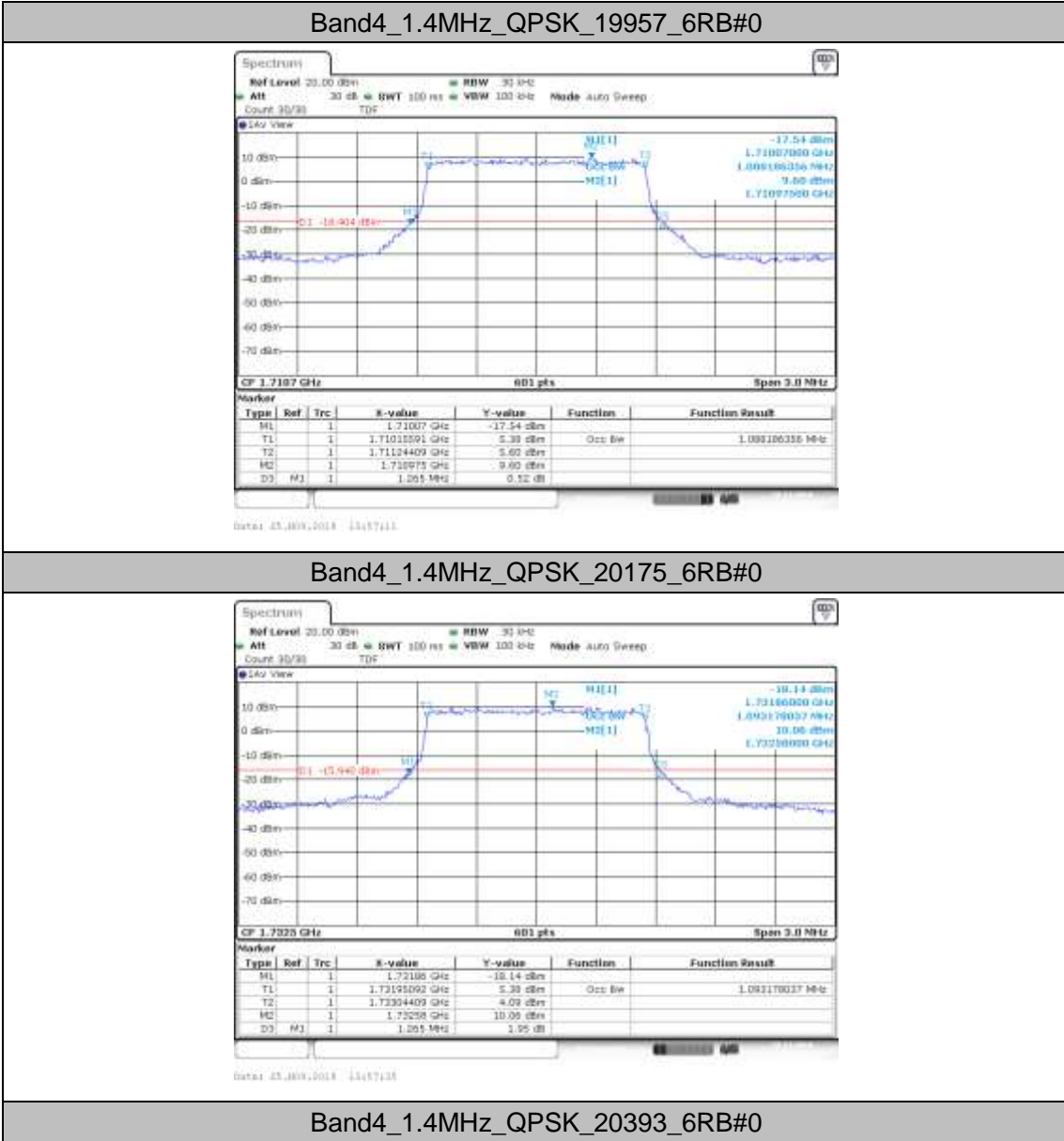
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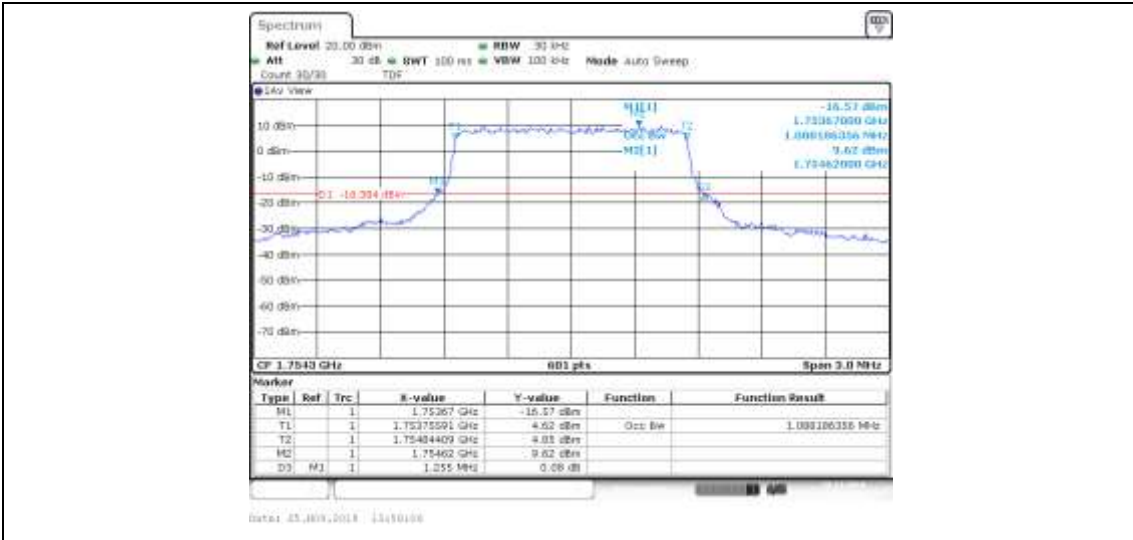
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



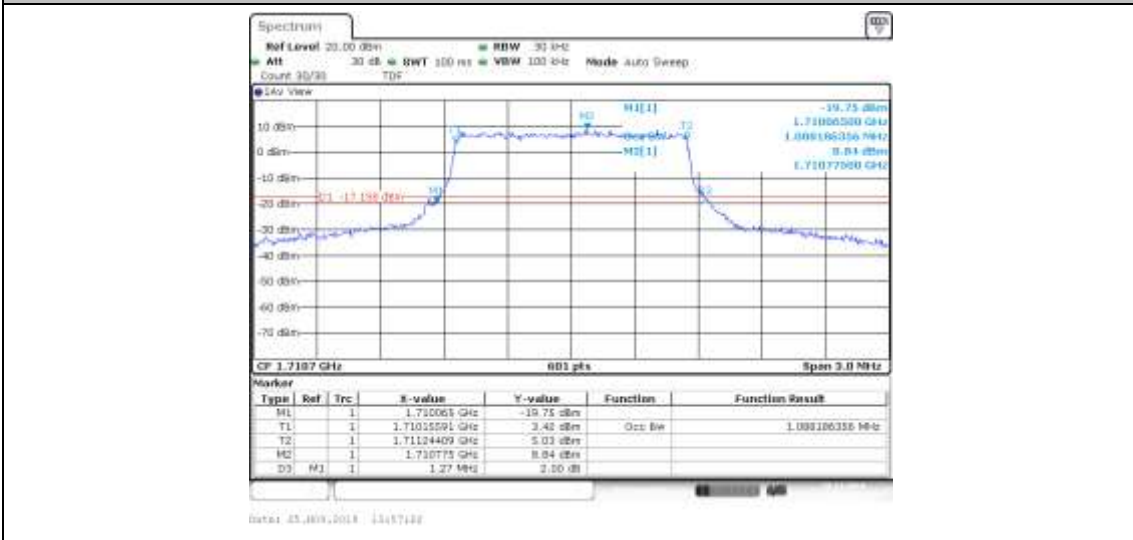
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Test Graphs

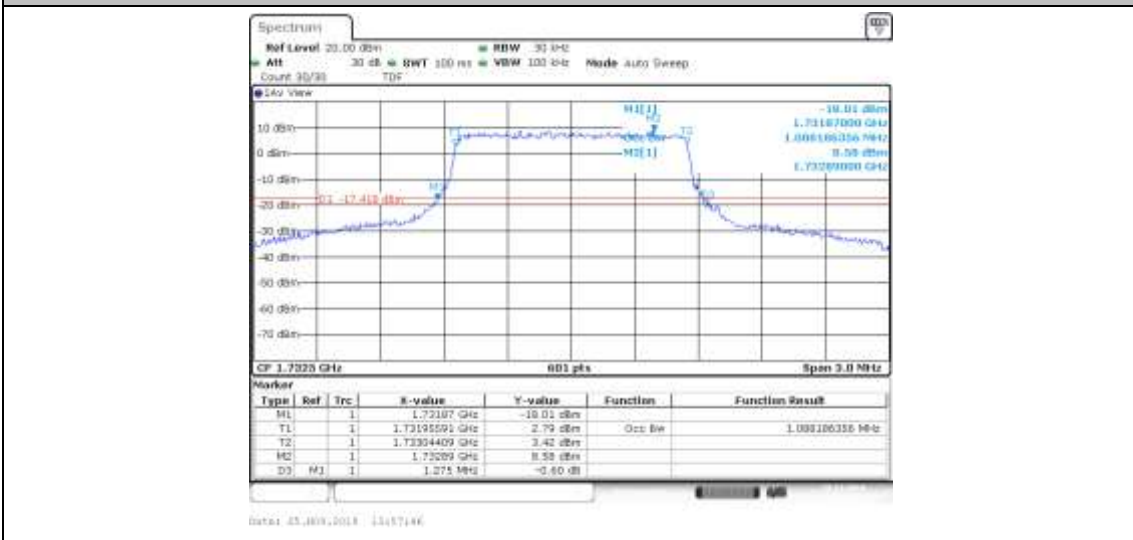




Band4_1.4MHz_16QAM_19957_6RB#0



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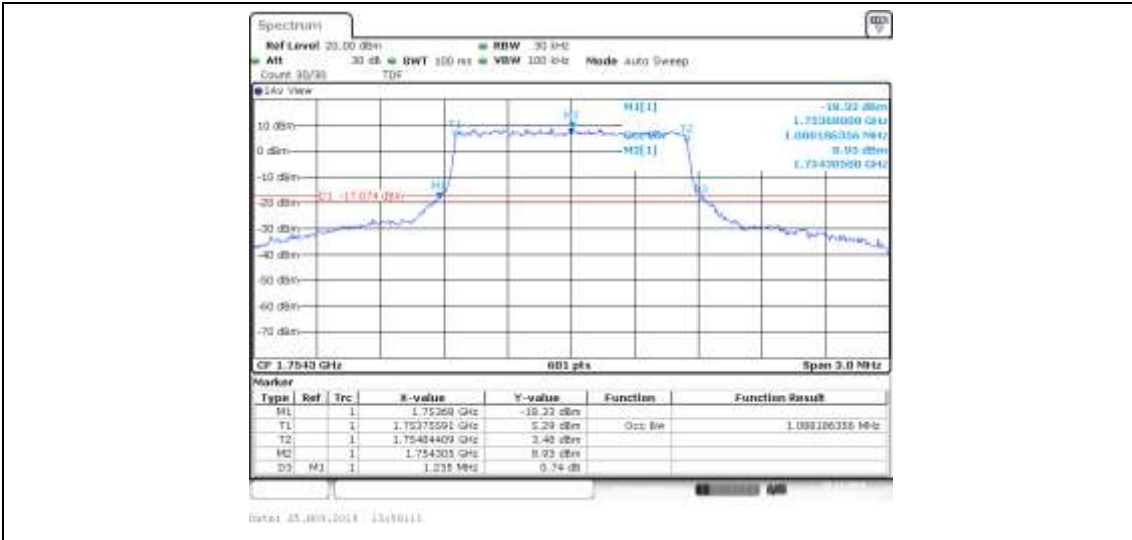
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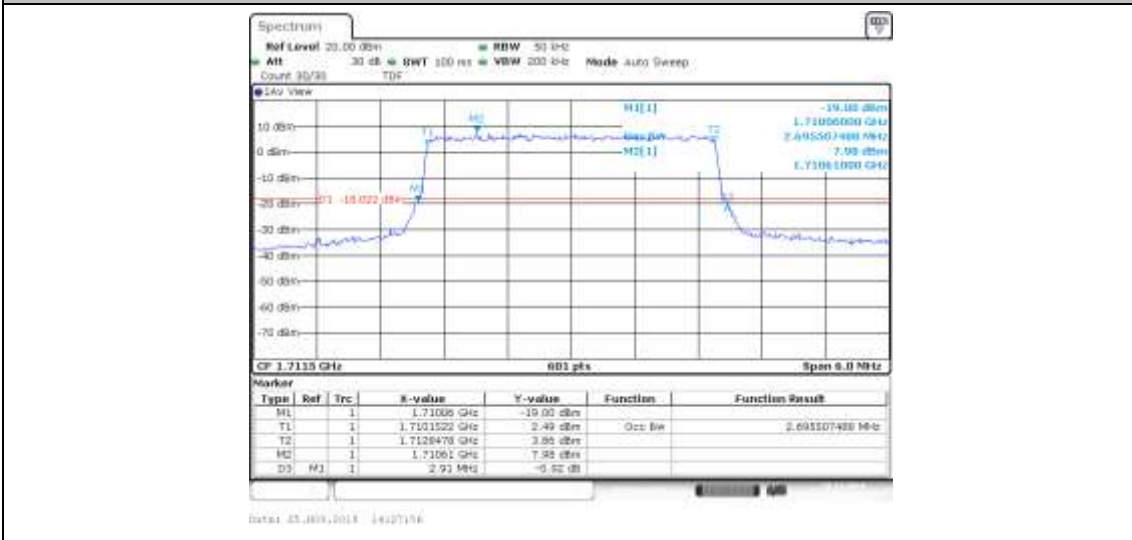
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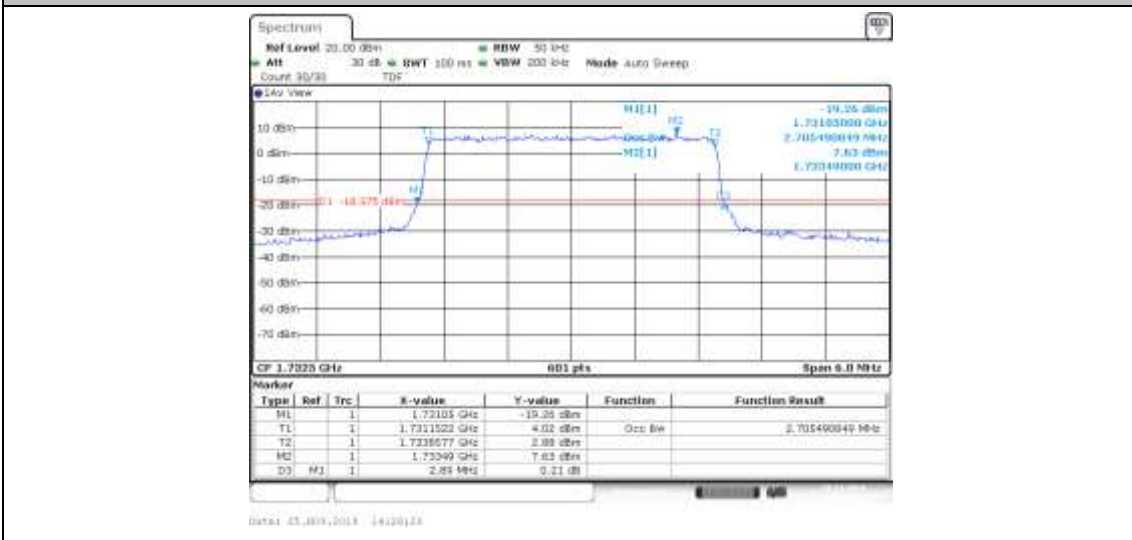
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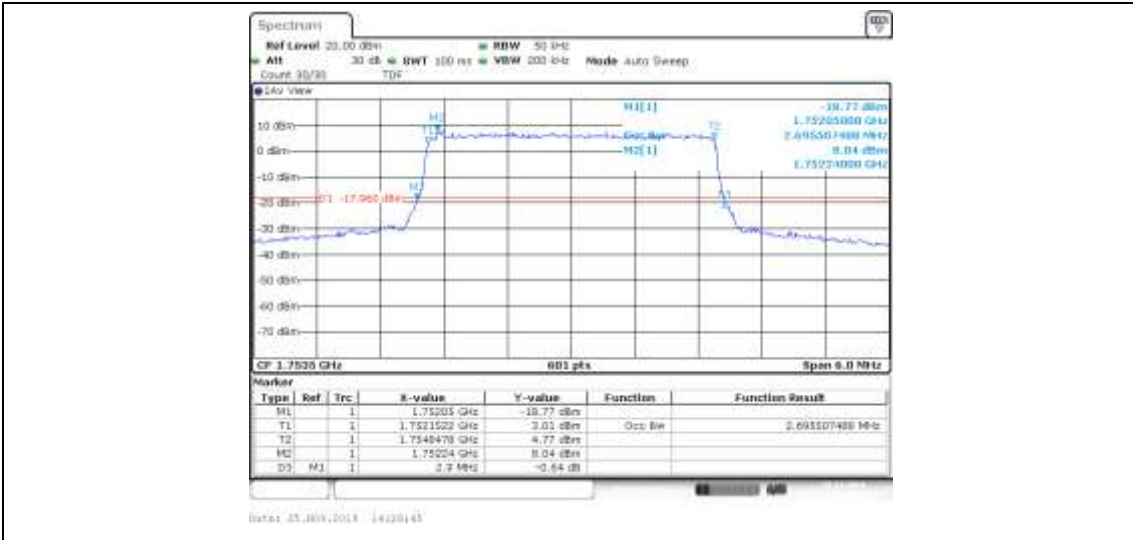
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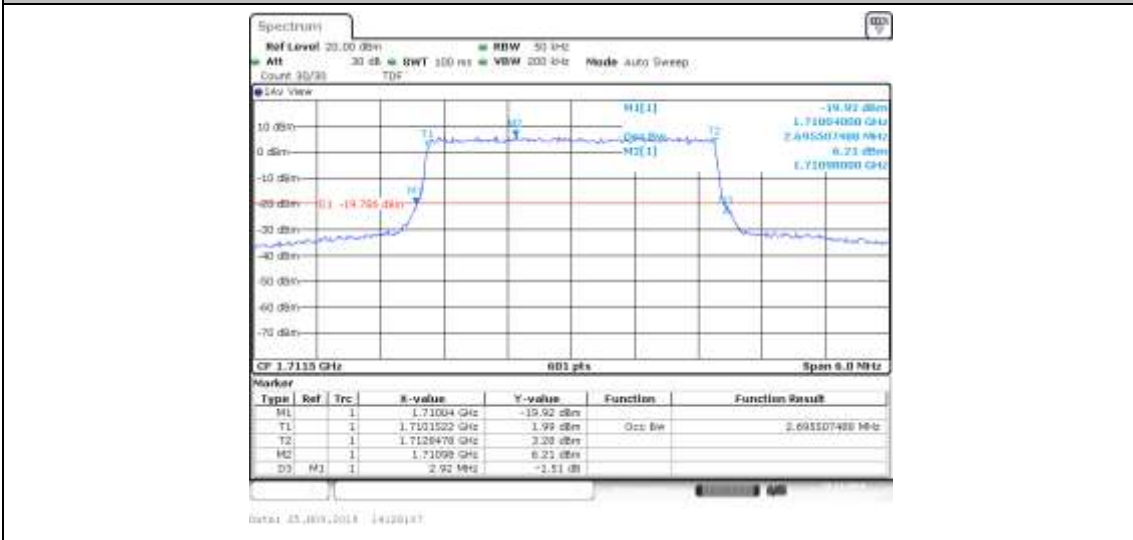
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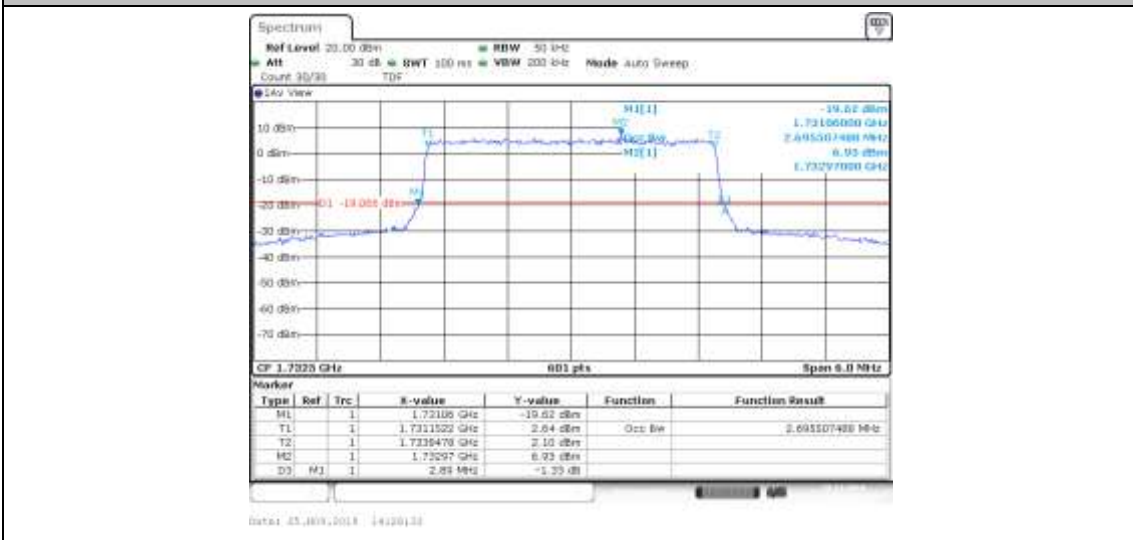
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Band4_3MHz_16QAM_19965_15RB#0



Band4_3MHz_16QAM_20175_15RB#0



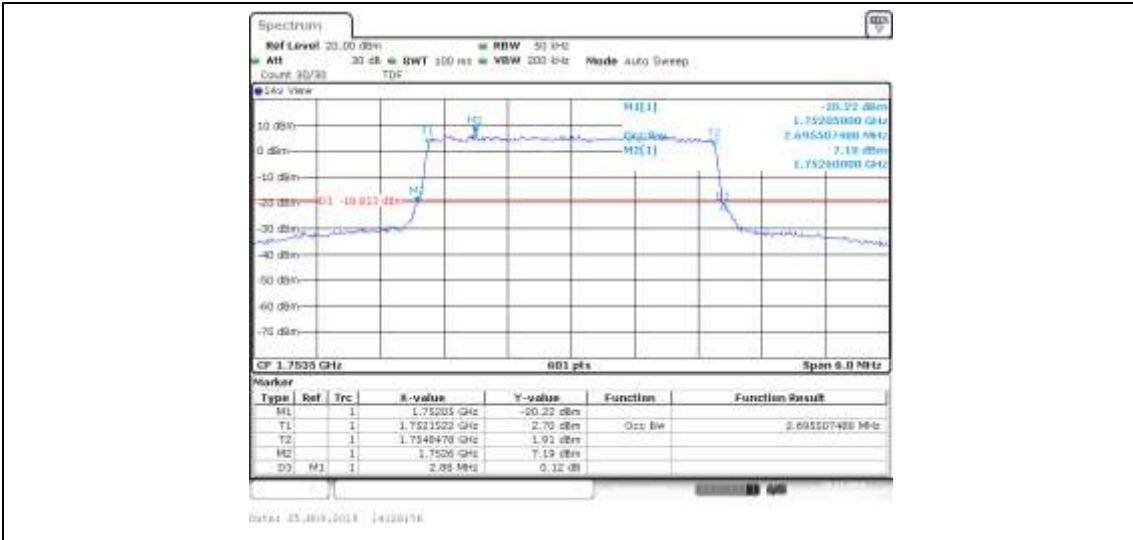
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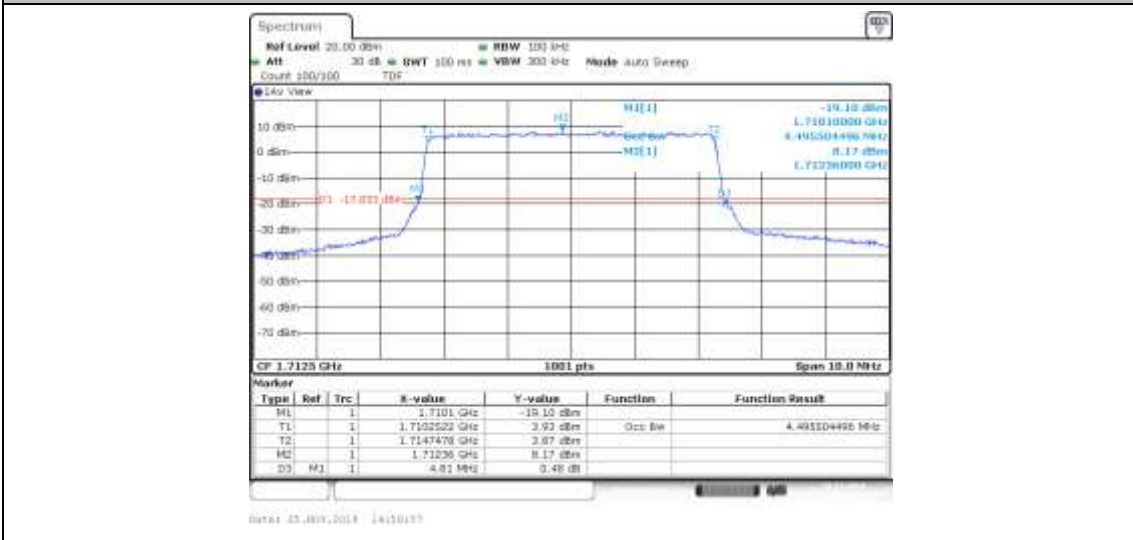
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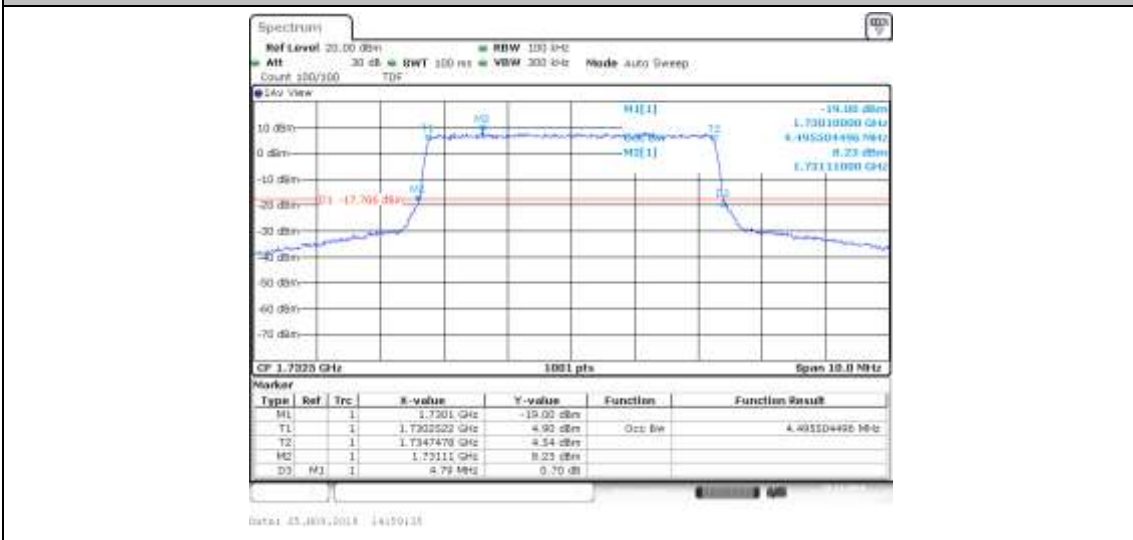
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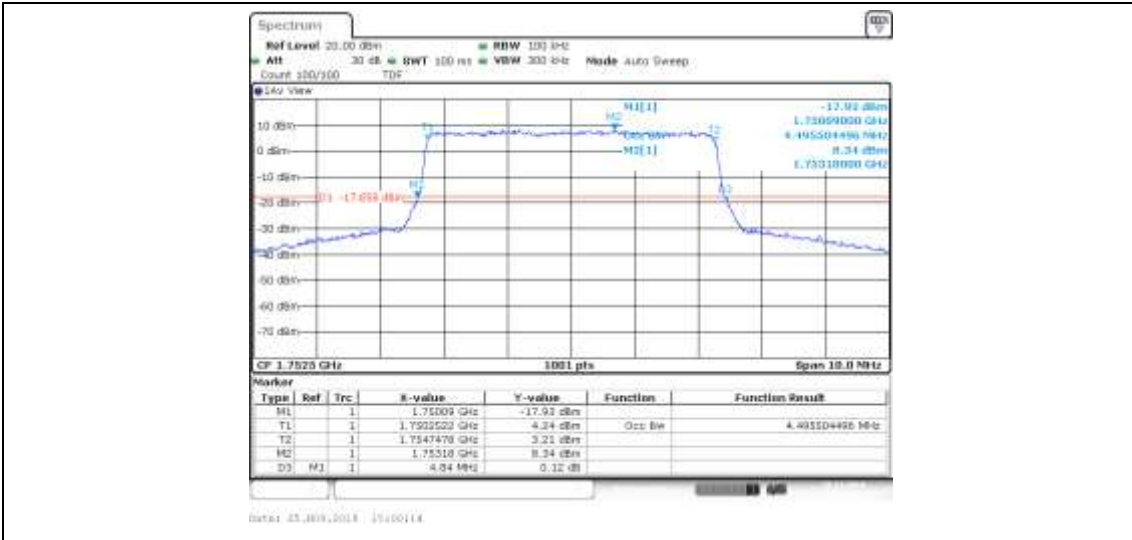
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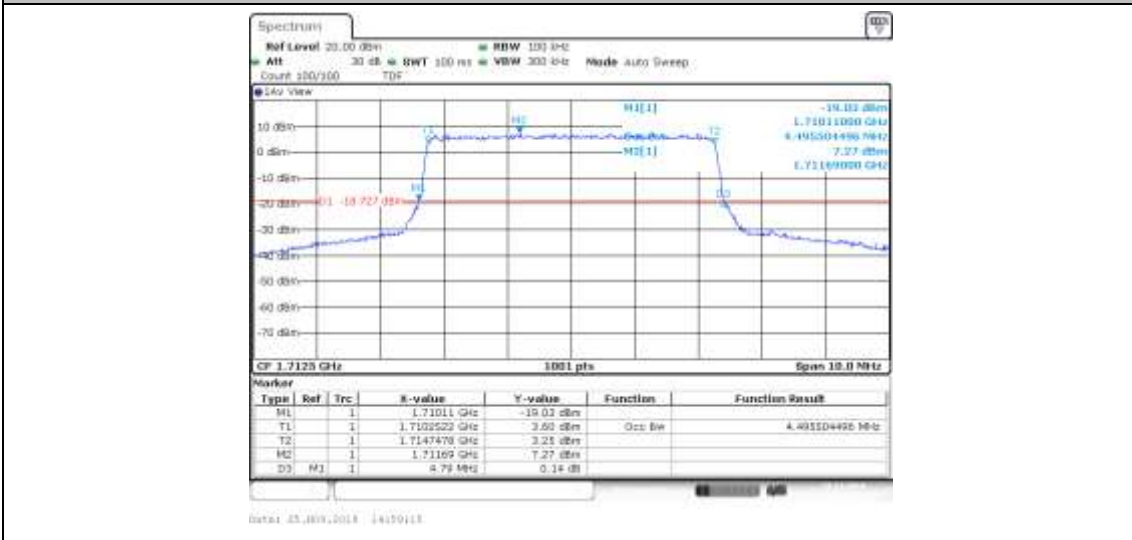
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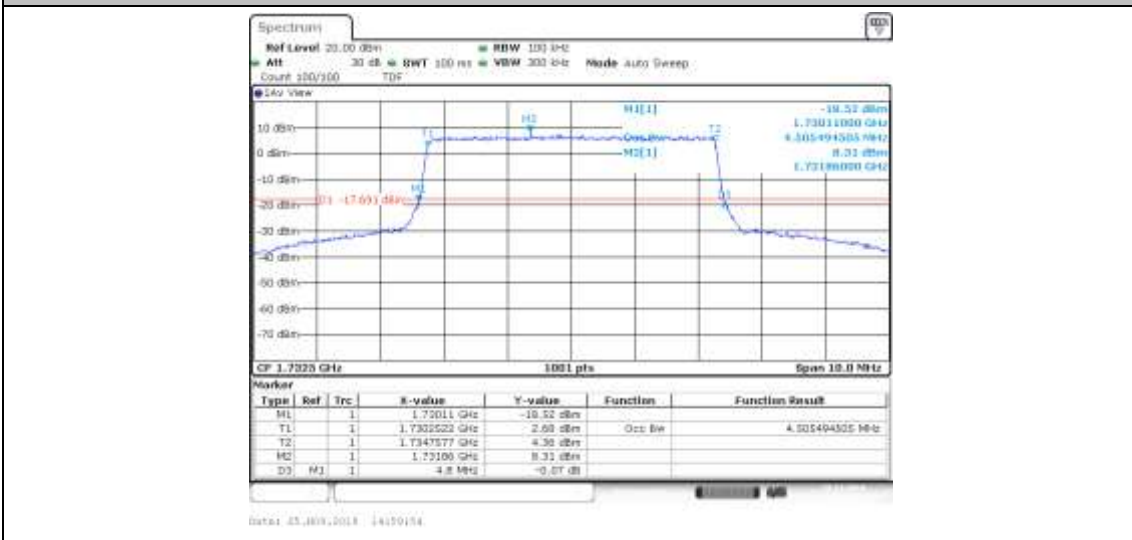
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Band4_5MHz_16QAM_19975_25RB#0



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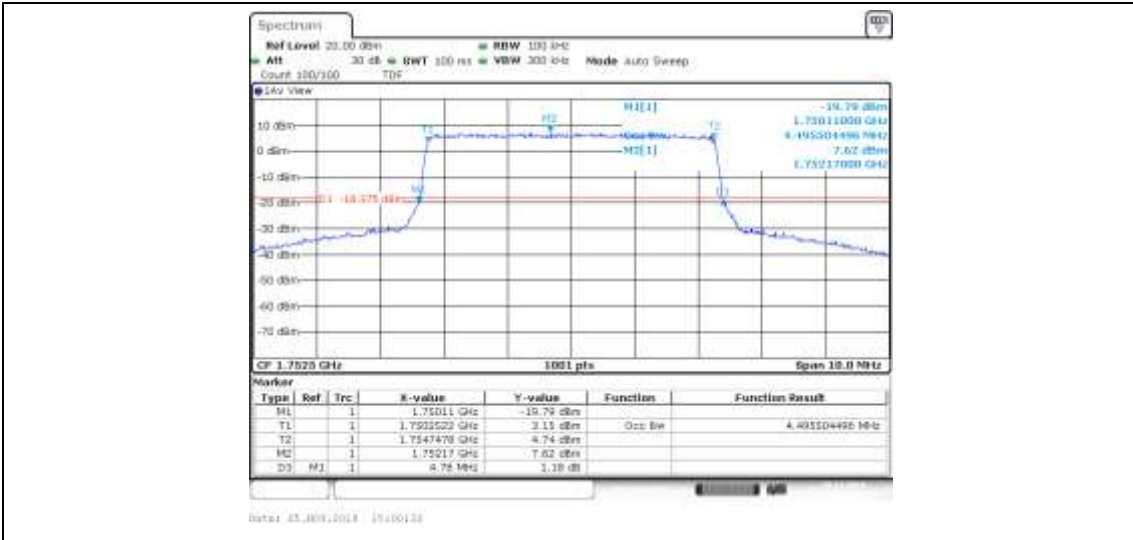
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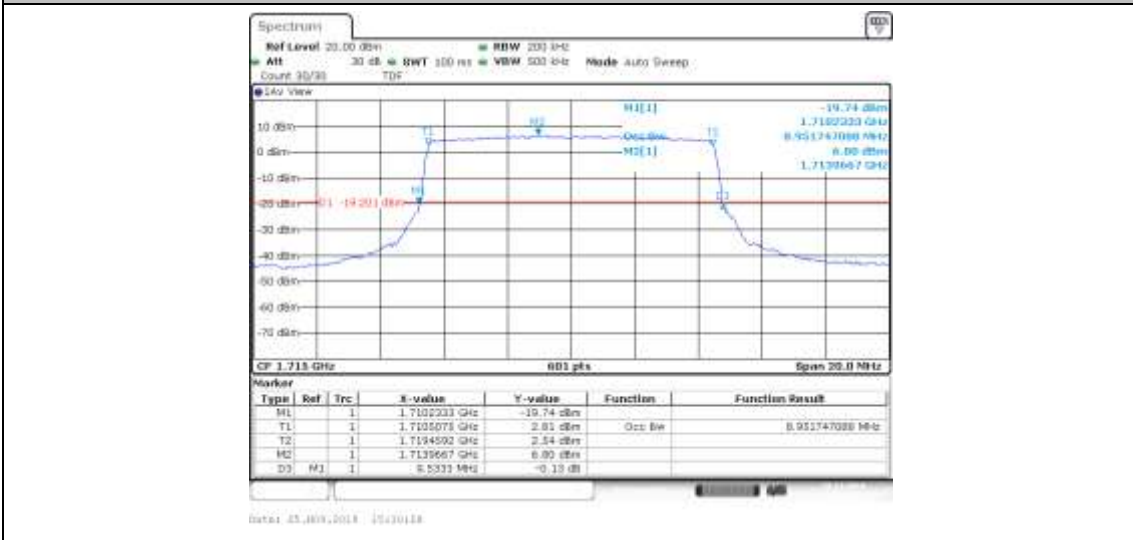
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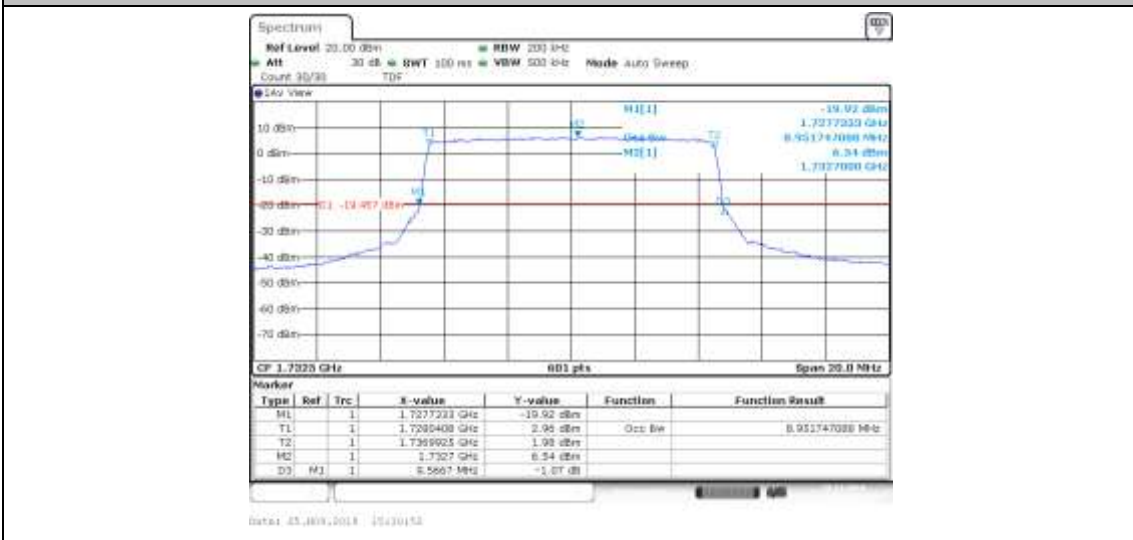
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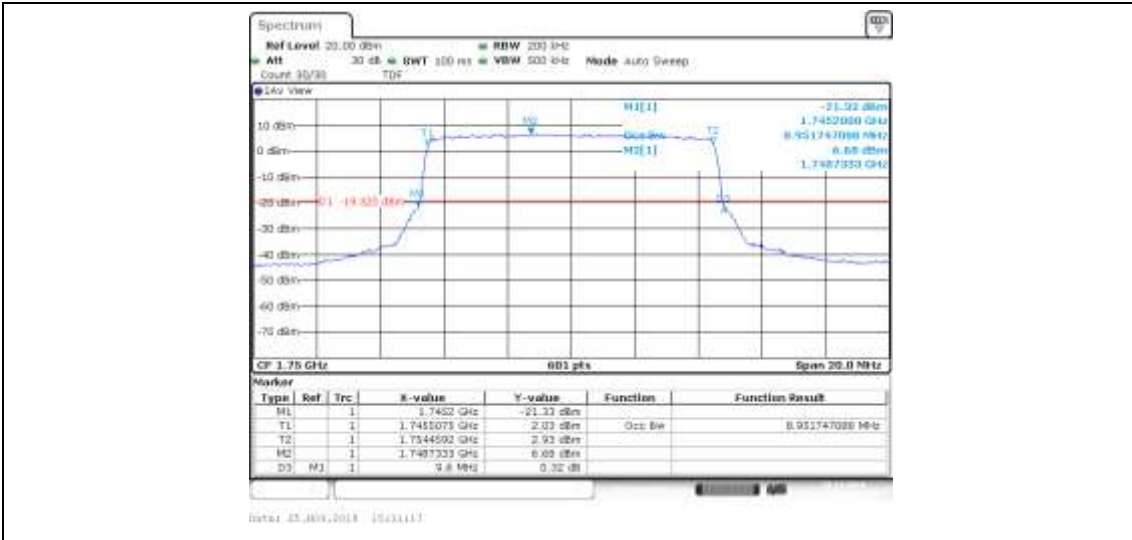
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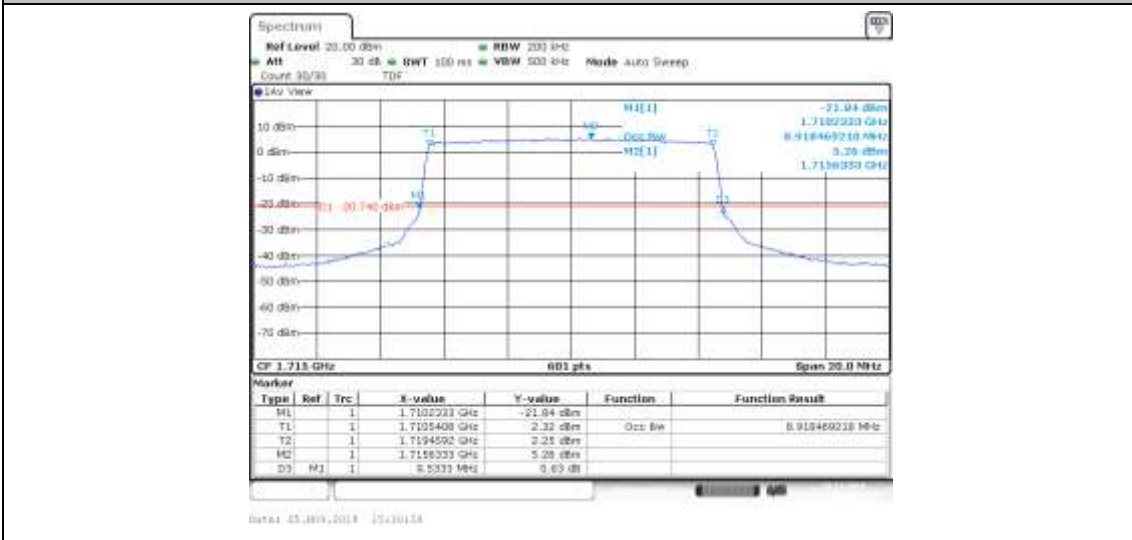
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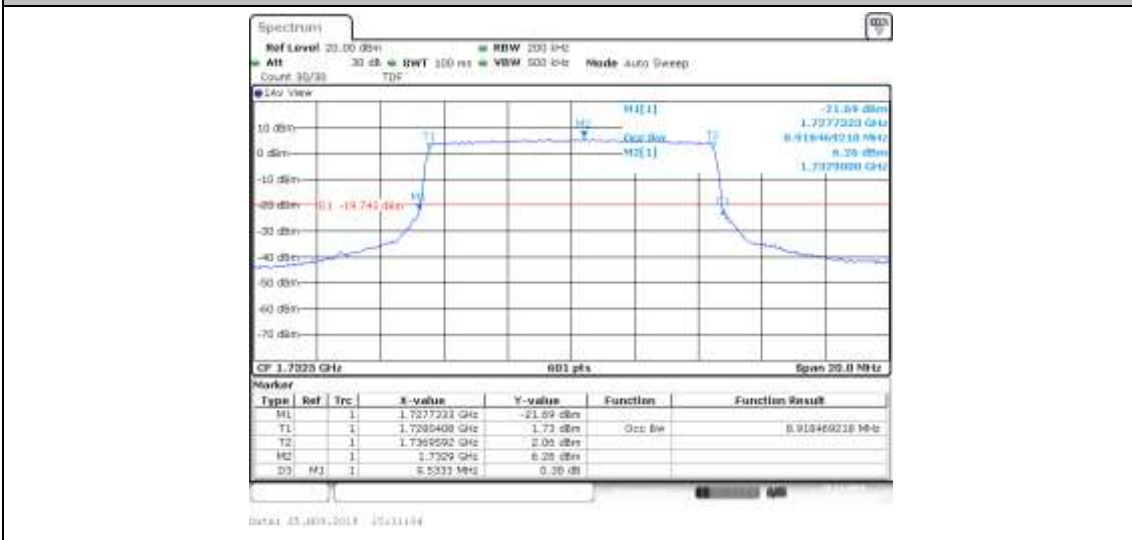
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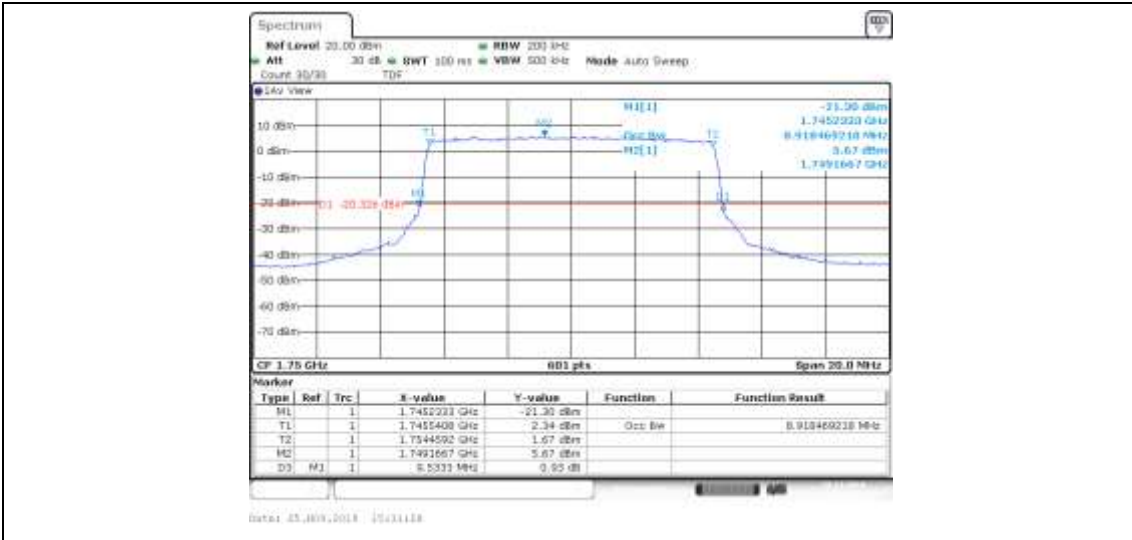
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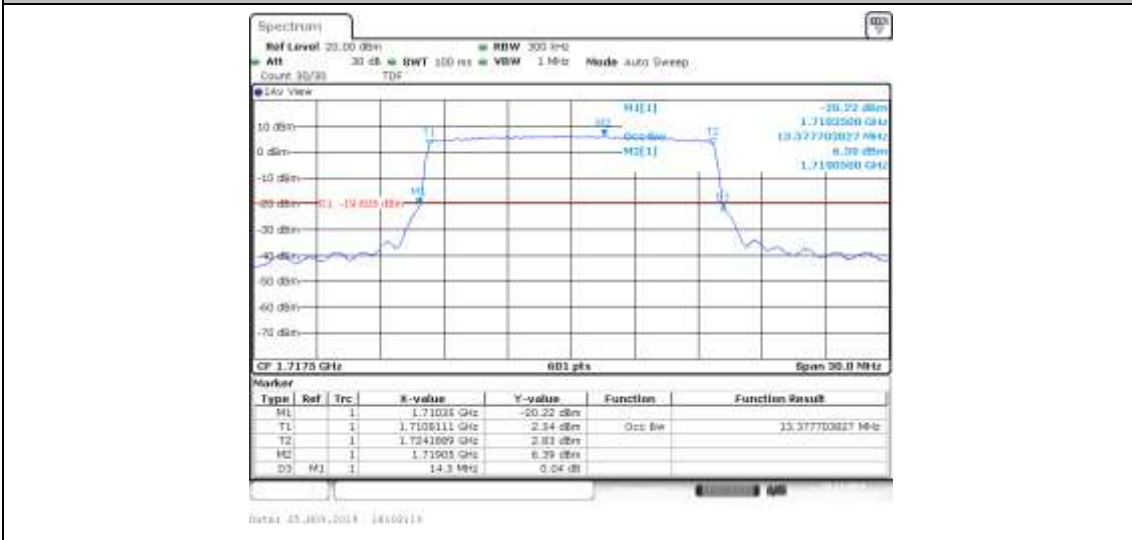
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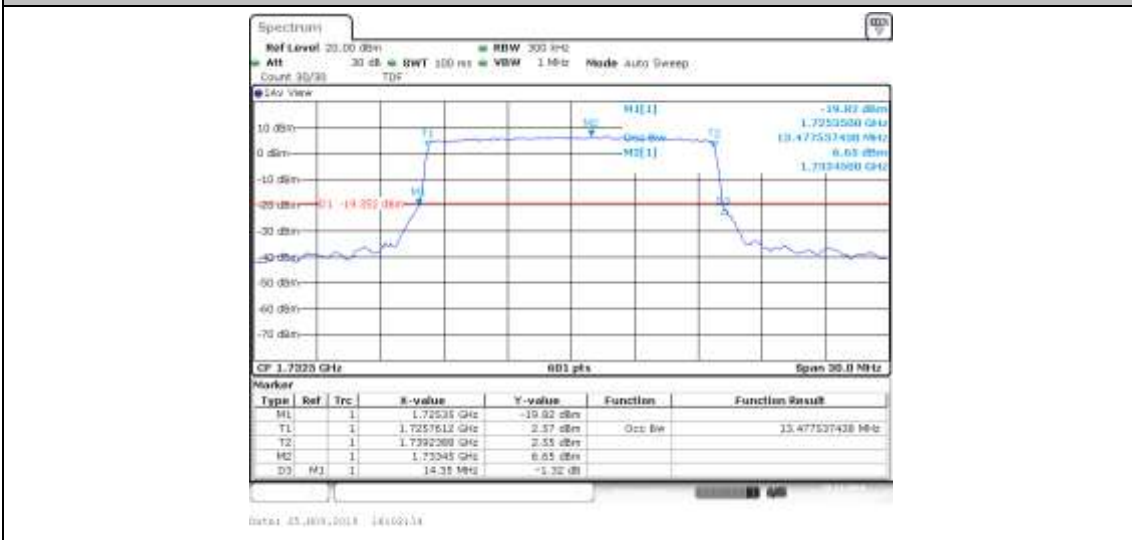
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Band4_15MHz_QPSK_20025_75RB#0



Band4_15MHz_QPSK_20175_75RB#0



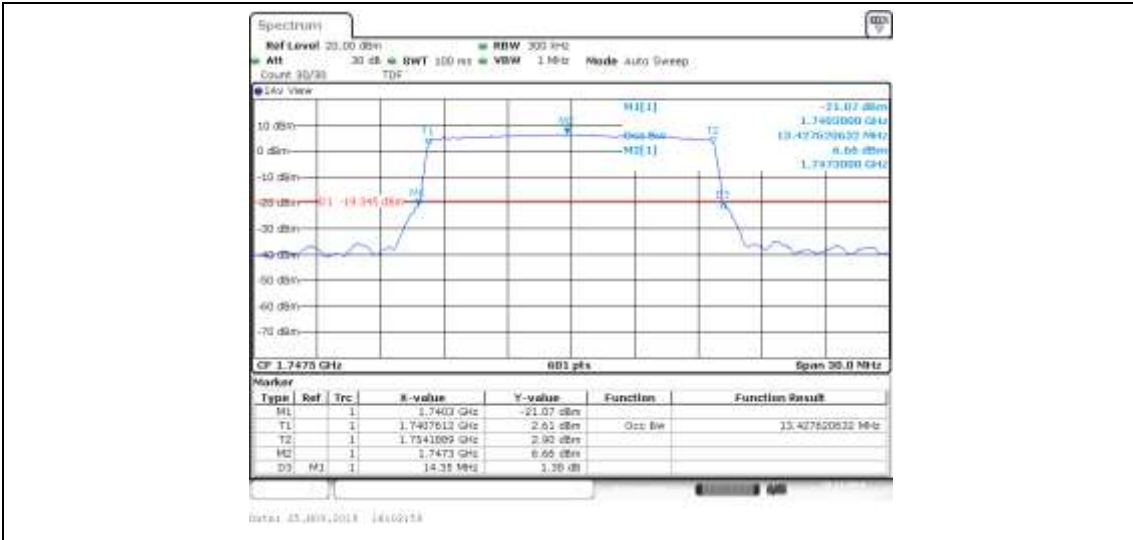
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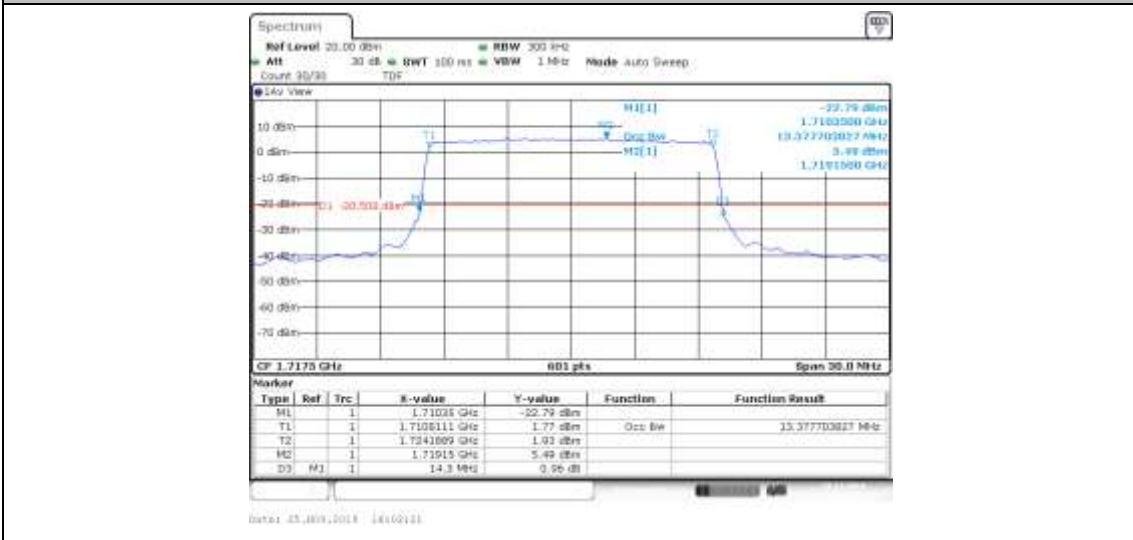
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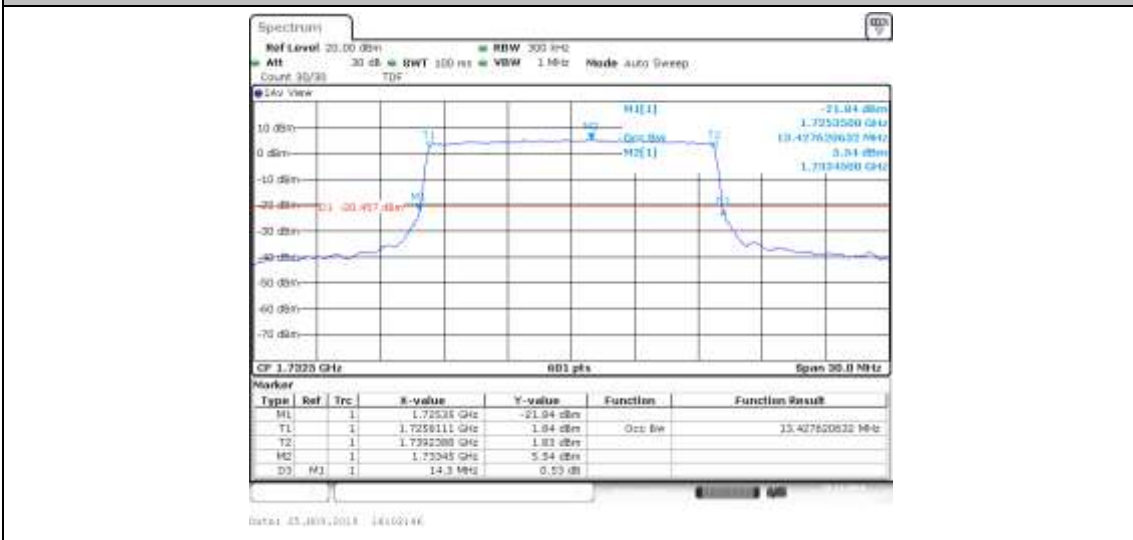
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Band4_15MHz_16QAM_2025_75RB#0



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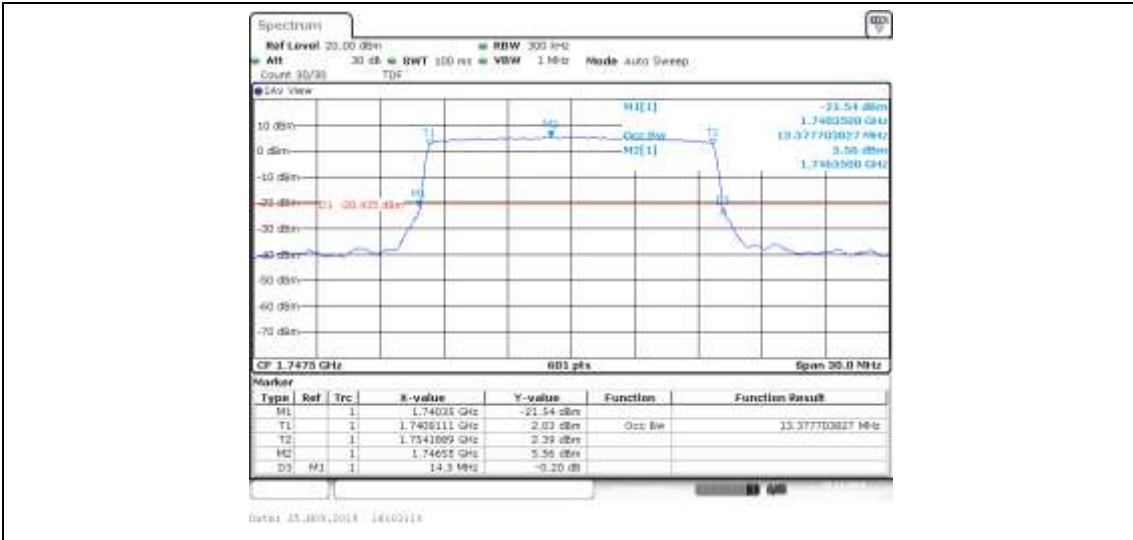
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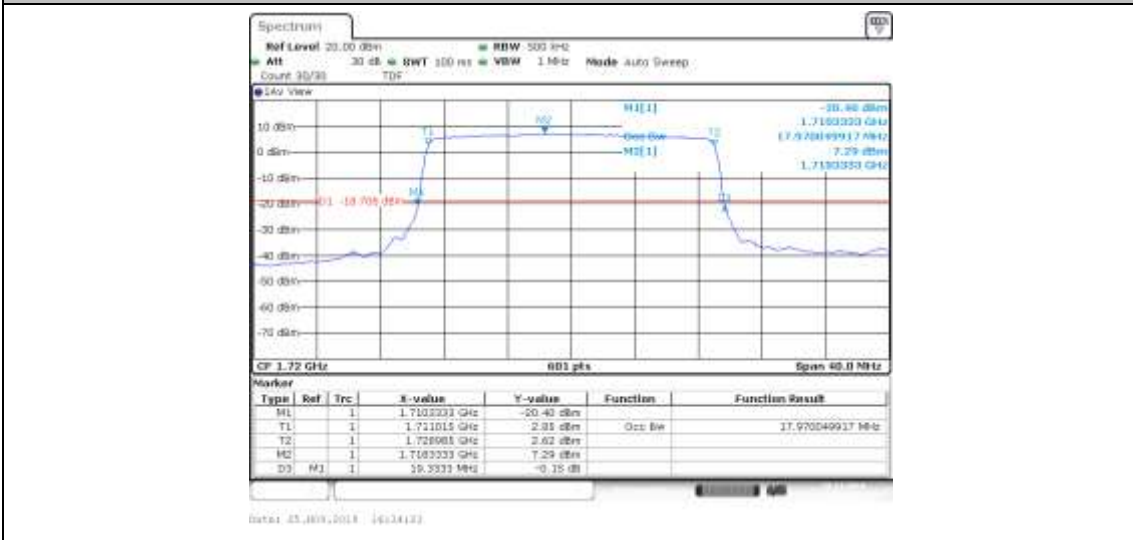
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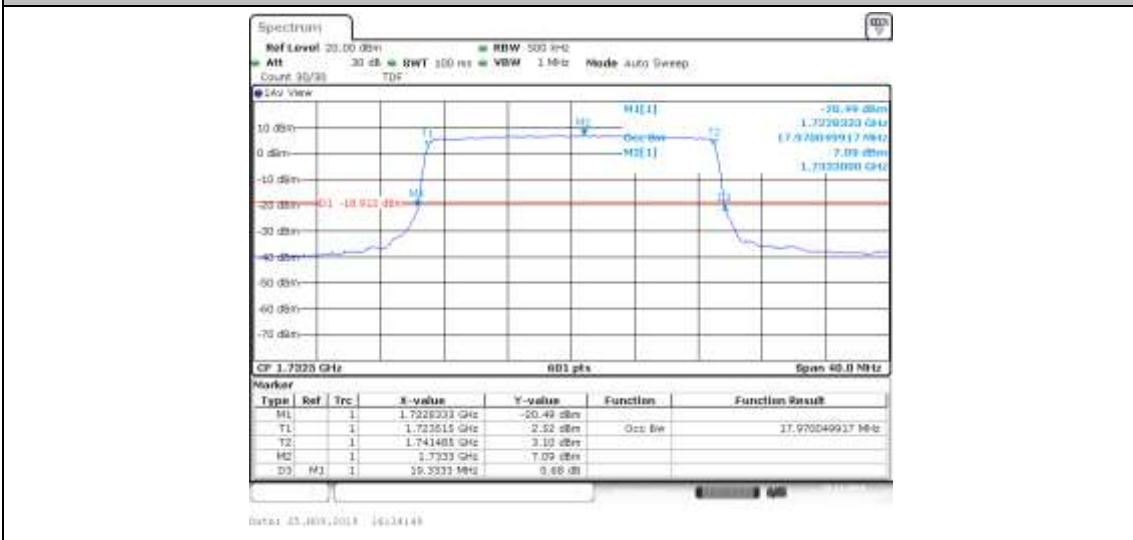
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Band4_20MHz_QPSK_20050_100RB#0



Band4_20MHz_QPSK_20175_100RB#0



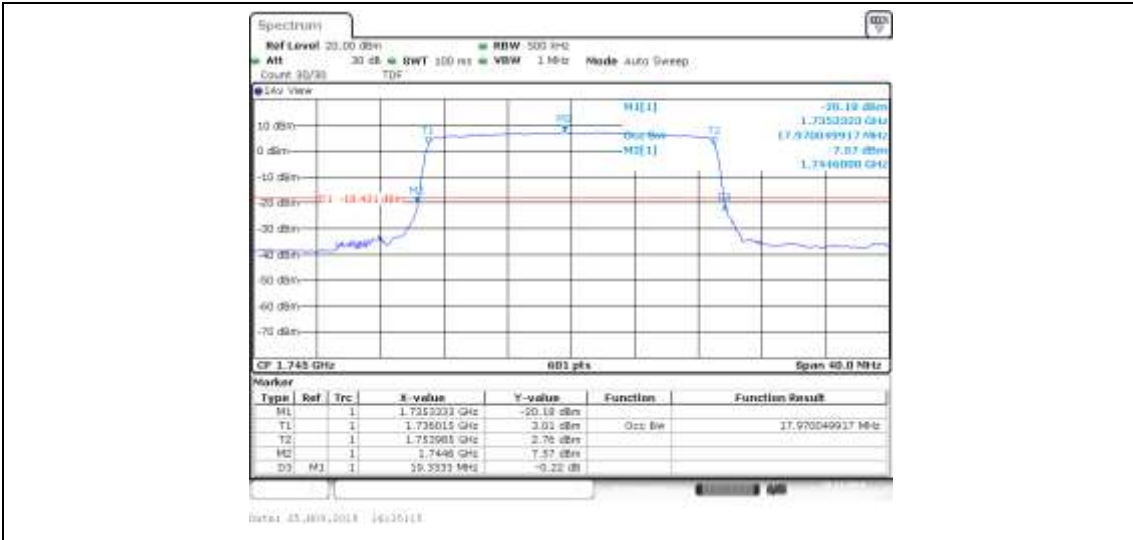
Band4_20MHz_QPSK_20300_100RB#0

CTC Laboratories, Inc.

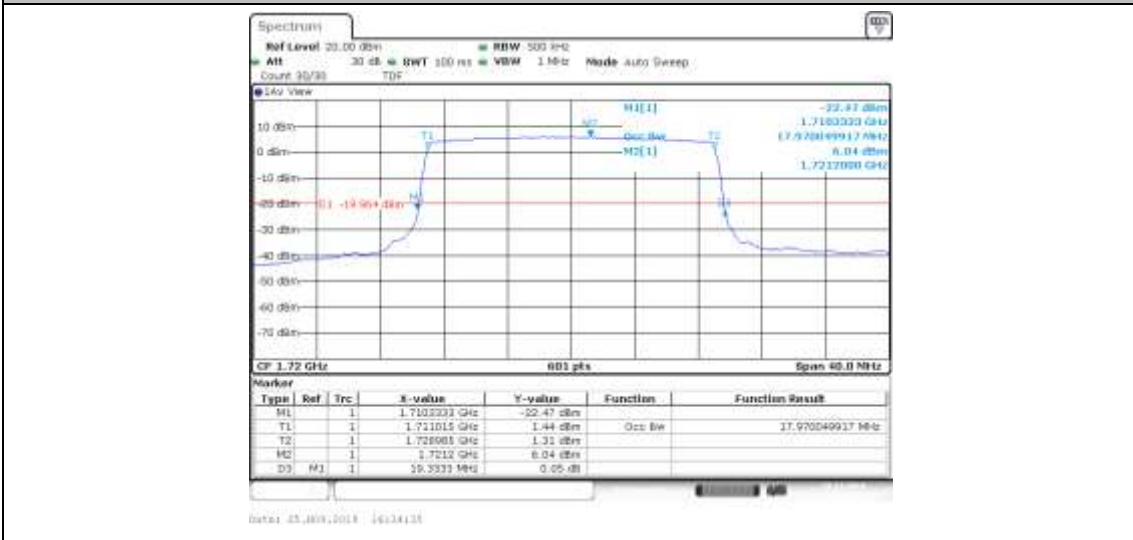
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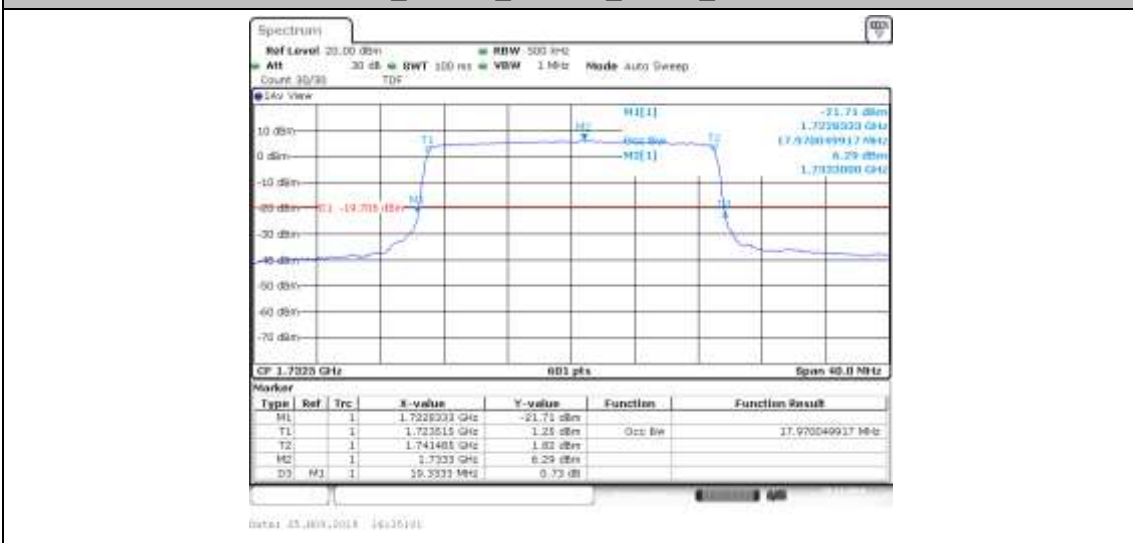
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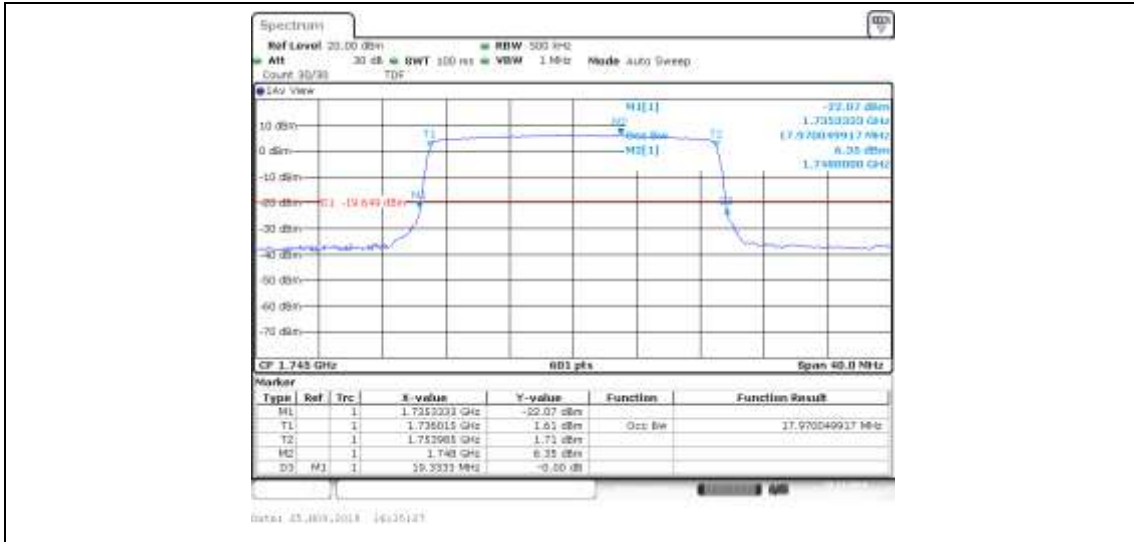
Band4_20MHz_16QAM_20050_100RB#0



Band4_20MHz_16QAM_20175_100RB#0



Band4_20MHz_16QAM_20300_100RB#0



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Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-16.35	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	-38.43	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-38.60	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-21.39	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-35.41	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	-36.90	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-16.89	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-22.82	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-18.90	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	-39.38	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-40.37	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-23.45	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-35.69	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	-38.45	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-19.25	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-22.48	PASS
Band4	3MHz	QPSK	19965	1RB#0	-14.14	PASS
Band4	3MHz	QPSK	19965	1RB#8	-44.54	PASS
Band4	3MHz	QPSK	19965	1RB#14	-42.89	PASS
Band4	3MHz	QPSK	19965	15RB#0	-23.12	PASS
Band4	3MHz	QPSK	20385	1RB#0	-42.98	PASS
Band4	3MHz	QPSK	20385	1RB#8	-43.11	PASS
Band4	3MHz	QPSK	20385	1RB#14	-15.41	PASS
Band4	3MHz	QPSK	20385	15RB#0	-22.89	PASS
Band4	3MHz	16QAM	19965	1RB#0	-16.85	PASS
Band4	3MHz	16QAM	19965	1RB#8	-44.11	PASS
Band4	3MHz	16QAM	19965	1RB#14	-43.64	PASS
Band4	3MHz	16QAM	19965	15RB#0	-24.05	PASS
Band4	3MHz	16QAM	20385	1RB#0	-43.15	PASS
Band4	3MHz	16QAM	20385	1RB#8	-43.18	PASS
Band4	3MHz	16QAM	20385	1RB#14	-16.76	PASS
Band4	3MHz	16QAM	20385	15RB#0	-24.87	PASS
Band4	5MHz	QPSK	19975	1RB#0	-16.76	PASS
Band4	5MHz	QPSK	19975	1RB#12	-43.99	PASS
Band4	5MHz	QPSK	19975	1RB#24	-50.37	PASS

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Band4	5MHz	QPSK	19975	25RB#0	-24.29	PASS
Band4	5MHz	QPSK	20375	1RB#0	-48.76	PASS
Band4	5MHz	QPSK	20375	1RB#12	-43.16	PASS
Band4	5MHz	QPSK	20375	1RB#24	-16.73	PASS
Band4	5MHz	QPSK	20375	25RB#0	-23.49	PASS
Band4	5MHz	16QAM	19975	1RB#0	-18.07	PASS
Band4	5MHz	16QAM	19975	1RB#12	-44.20	PASS
Band4	5MHz	16QAM	19975	1RB#24	-50.98	PASS
Band4	5MHz	16QAM	19975	25RB#0	-25.50	PASS
Band4	5MHz	16QAM	20375	1RB#0	-49.22	PASS
Band4	5MHz	16QAM	20375	1RB#12	-43.38	PASS
Band4	5MHz	16QAM	20375	1RB#24	-18.45	PASS
Band4	5MHz	16QAM	20375	25RB#0	-24.89	PASS
Band4	10MHz	QPSK	20000	1RB#0	-28.13	PASS
Band4	10MHz	QPSK	20000	1RB#24	-49.33	PASS
Band4	10MHz	QPSK	20000	1RB#49	-44.24	PASS
Band4	10MHz	QPSK	20000	50RB#0	-25.51	PASS
Band4	10MHz	QPSK	20350	1RB#0	-44.31	PASS
Band4	10MHz	QPSK	20350	1RB#24	-48.75	PASS
Band4	10MHz	QPSK	20350	1RB#49	-27.50	PASS
Band4	10MHz	QPSK	20350	50RB#0	-23.86	PASS
Band4	10MHz	16QAM	20000	1RB#0	-29.66	PASS
Band4	10MHz	16QAM	20000	1RB#24	-49.29	PASS
Band4	10MHz	16QAM	20000	1RB#49	-44.76	PASS
Band4	10MHz	16QAM	20000	50RB#0	-27.46	PASS
Band4	10MHz	16QAM	20350	1RB#0	-46.36	PASS
Band4	10MHz	16QAM	20350	1RB#24	-49.16	PASS
Band4	10MHz	16QAM	20350	1RB#49	-27.83	PASS
Band4	10MHz	16QAM	20350	50RB#0	-25.76	PASS
Band4	15MHz	QPSK	20025	1RB#0	-30.47	PASS
Band4	15MHz	QPSK	20025	1RB#38	-48.47	PASS
Band4	15MHz	QPSK	20025	1RB#74	-43.96	PASS
Band4	15MHz	QPSK	20025	75RB#0	-24.60	PASS
Band4	15MHz	QPSK	20325	1RB#0	-42.42	PASS
Band4	15MHz	QPSK	20325	1RB#38	-48.34	PASS
Band4	15MHz	QPSK	20325	1RB#74	-27.90	PASS
Band4	15MHz	QPSK	20325	75RB#0	-23.75	PASS
Band4	15MHz	16QAM	20025	1RB#0	-30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	-48.64	PASS
Band4	15MHz	16QAM	20025	1RB#74	-45.37	PASS
Band4	15MHz	16QAM	20025	75RB#0	-29.49	PASS

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Band4	15MHz	16QAM	20325	1RB#0	-43.52	PASS
Band4	15MHz	16QAM	20325	1RB#38	-48.30	PASS
Band4	15MHz	16QAM	20325	1RB#74	-28.64	PASS
Band4	15MHz	16QAM	20325	75RB#0	-27.56	PASS
Band4	20MHz	QPSK	20050	1RB#0	-27.86	PASS
Band4	20MHz	QPSK	20050	1RB#49	-46.94	PASS
Band4	20MHz	QPSK	20050	1RB#99	-45.42	PASS
Band4	20MHz	QPSK	20050	100RB#0	-27.05	PASS
Band4	20MHz	QPSK	20300	1RB#0	-45.79	PASS
Band4	20MHz	QPSK	20300	1RB#49	-46.64	PASS
Band4	20MHz	QPSK	20300	1RB#99	-27.52	PASS
Band4	20MHz	QPSK	20300	100RB#0	-26.14	PASS
Band4	20MHz	16QAM	20050	1RB#0	-27.96	PASS
Band4	20MHz	16QAM	20050	1RB#49	-46.59	PASS
Band4	20MHz	16QAM	20050	1RB#99	-45.80	PASS
Band4	20MHz	16QAM	20050	100RB#0	-29.09	PASS
Band4	20MHz	16QAM	20300	1RB#0	-45.89	PASS
Band4	20MHz	16QAM	20300	1RB#49	-46.60	PASS
Band4	20MHz	16QAM	20300	1RB#99	-28.08	PASS
Band4	20MHz	16QAM	20300	100RB#0	-27.58	PASS

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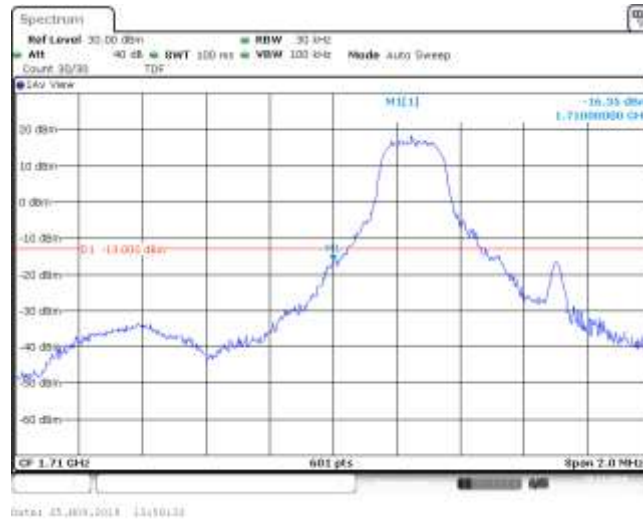
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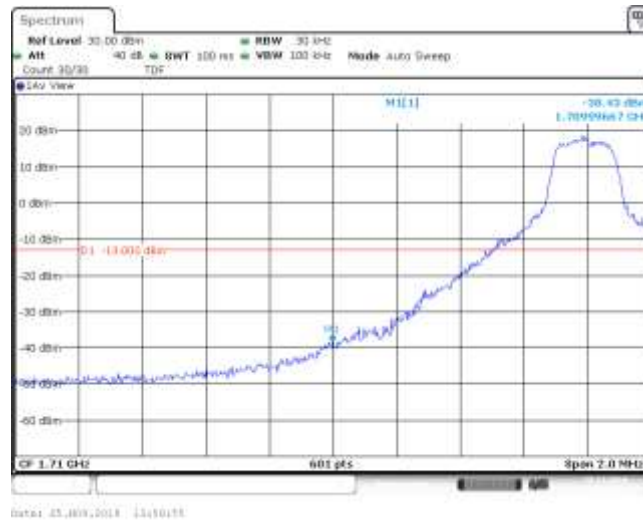
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Test Graphs

Band4_1.4MHz_QPSK_19957_1RB#0



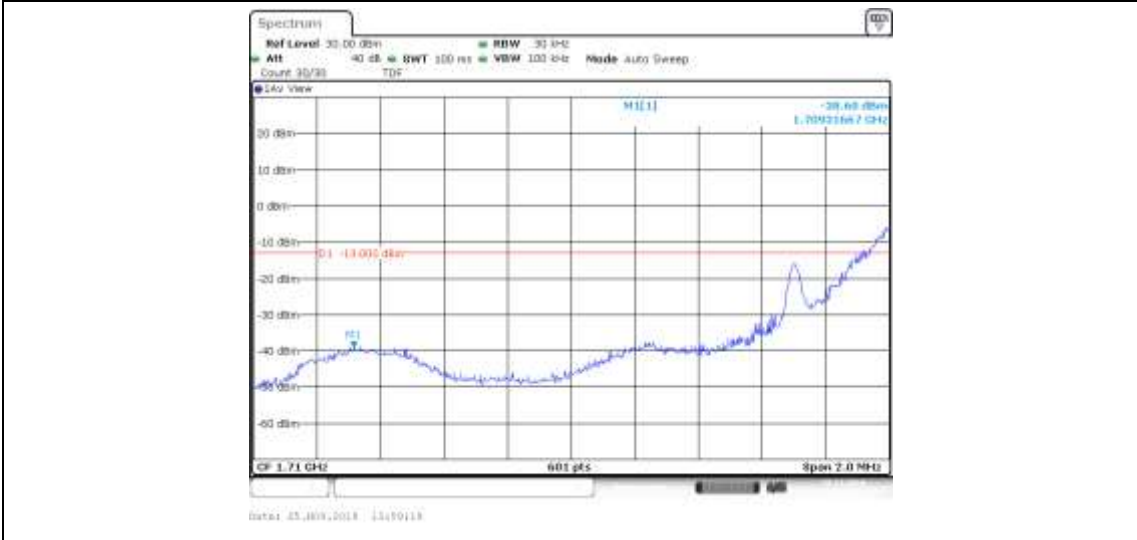
Band4_1.4MHz_QPSK_19957_1RB#2



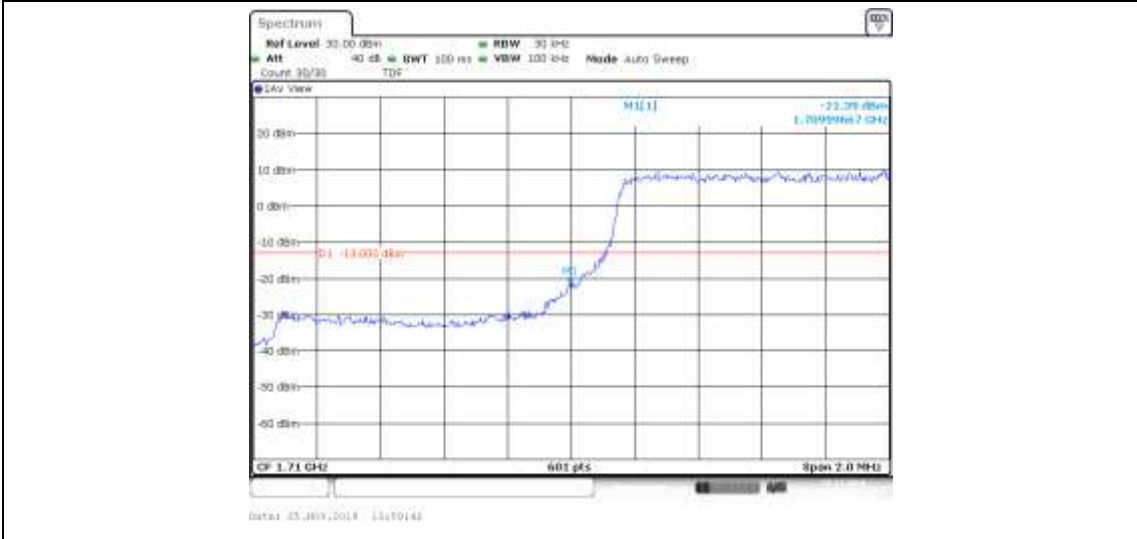
Band4_1.4MHz_QPSK_19957_1RB#5

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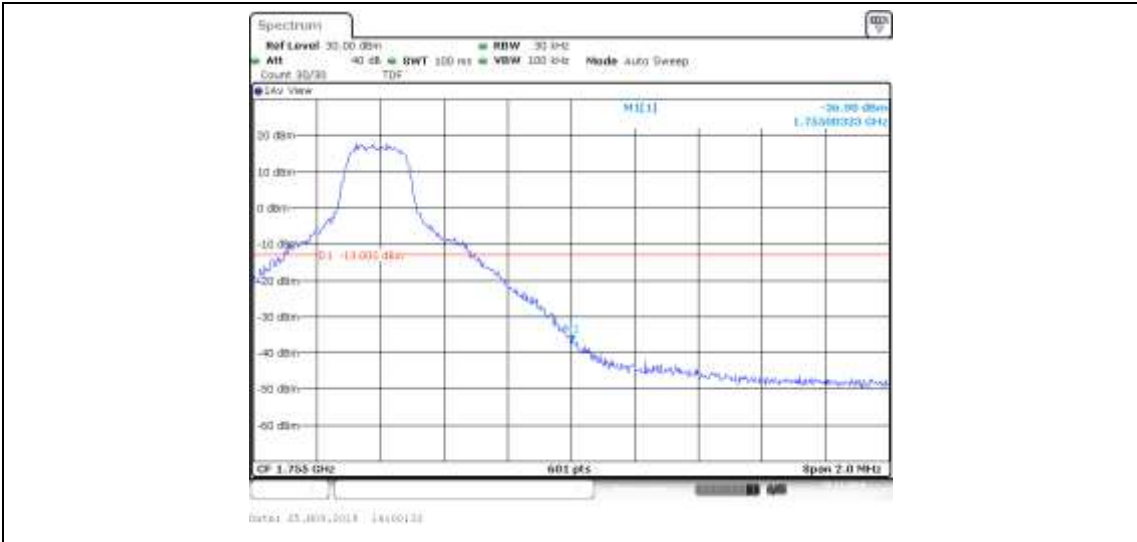
Band4_1.4MHz_QPSK_19957_6RB#0



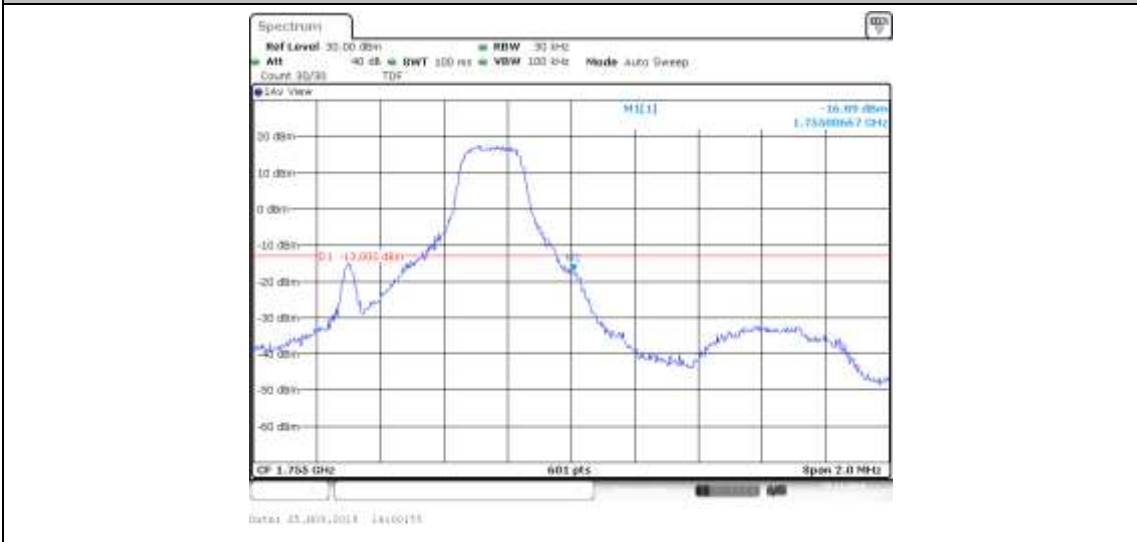
Band4_1.4MHz_QPSK_20393_1RB#0



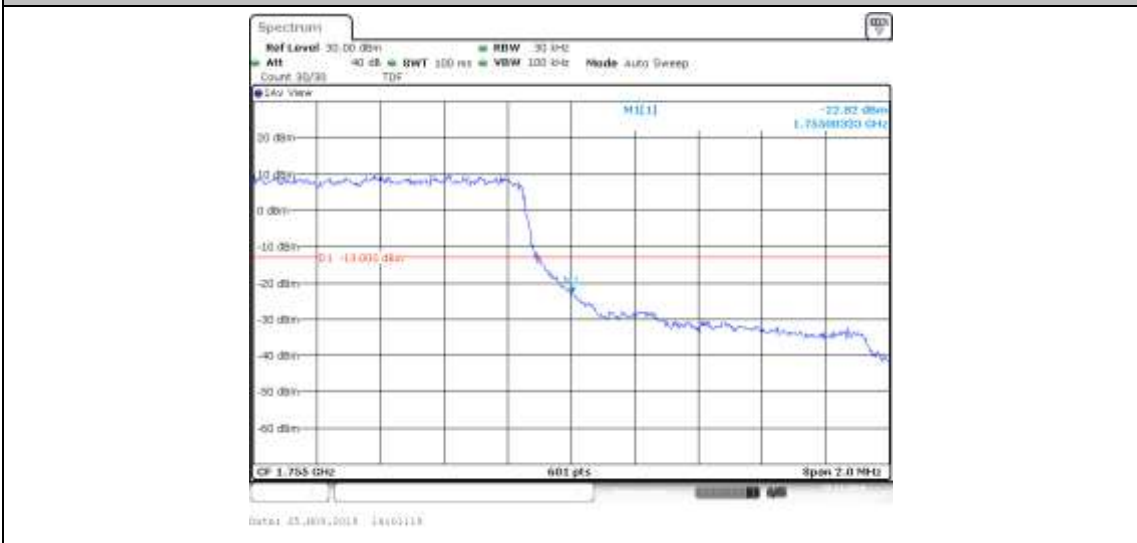
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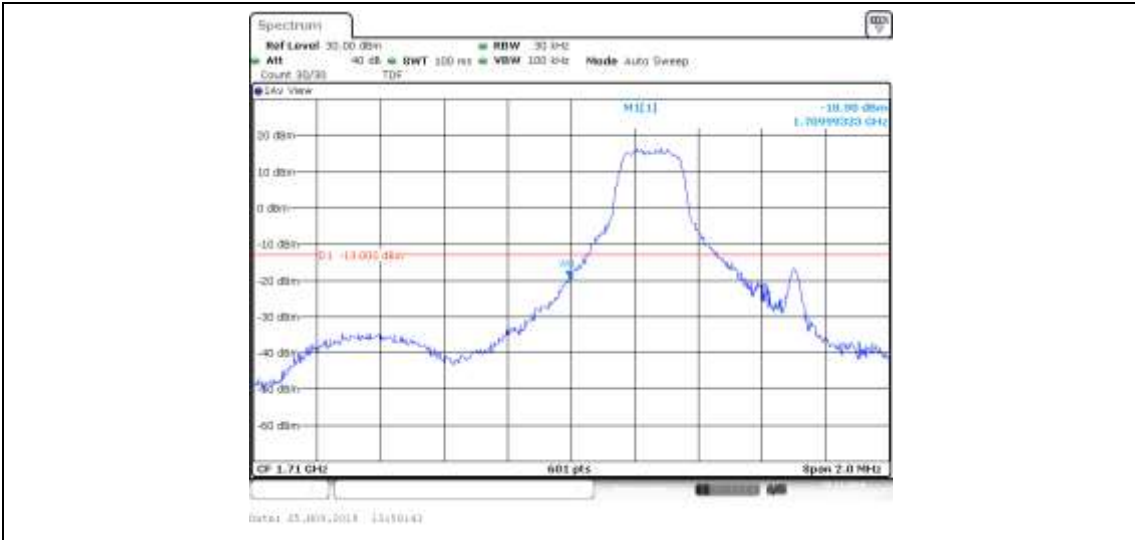
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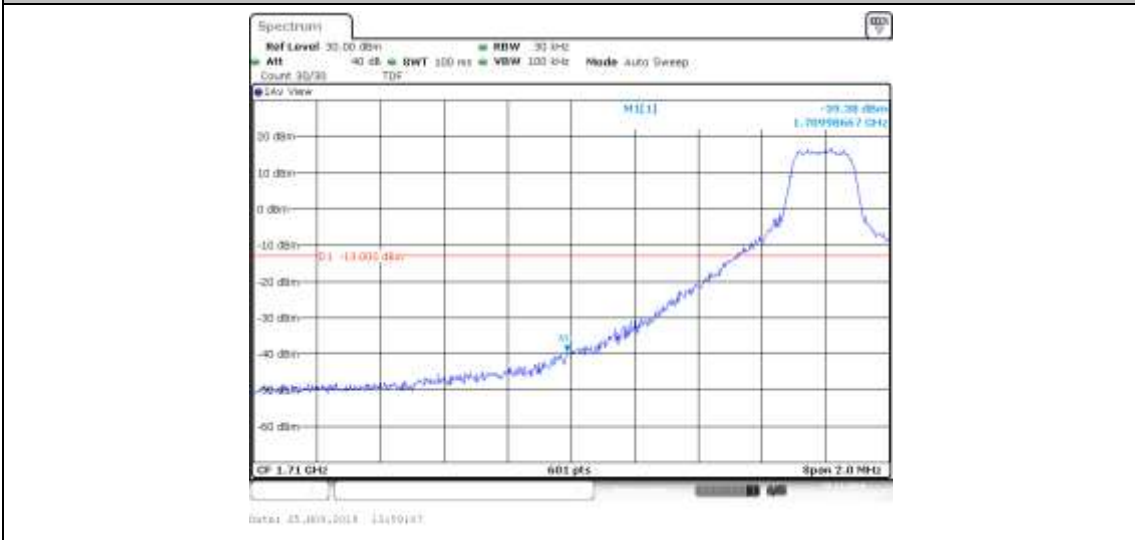
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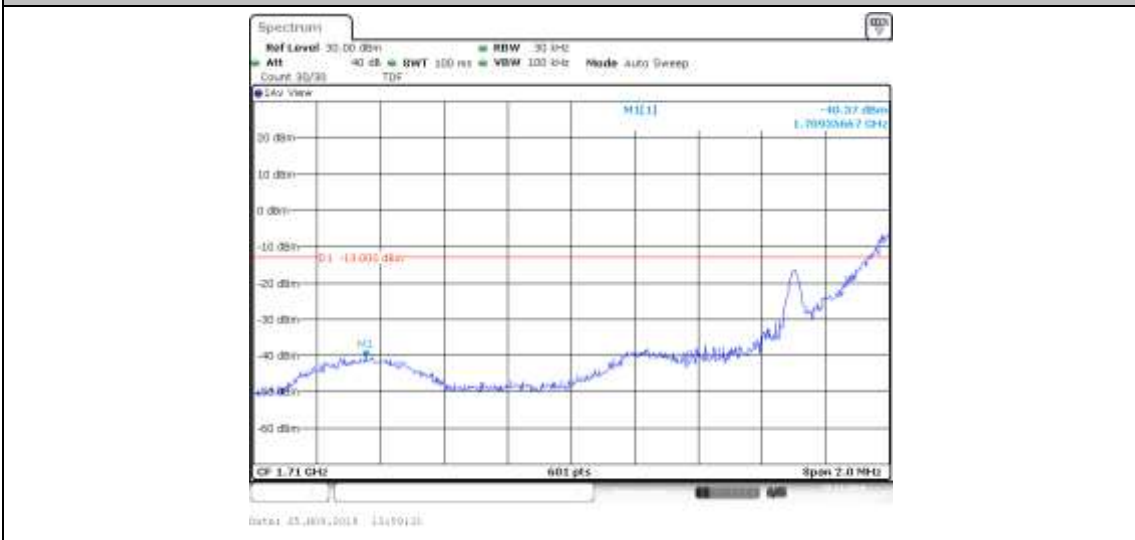
Band4_1.4MHz_16QAM_19957_1RB#0



Band4_1.4MHz_16QAM_19957_1RB#2



Band4_1.4MHz_16QAM_19957_1RB#5

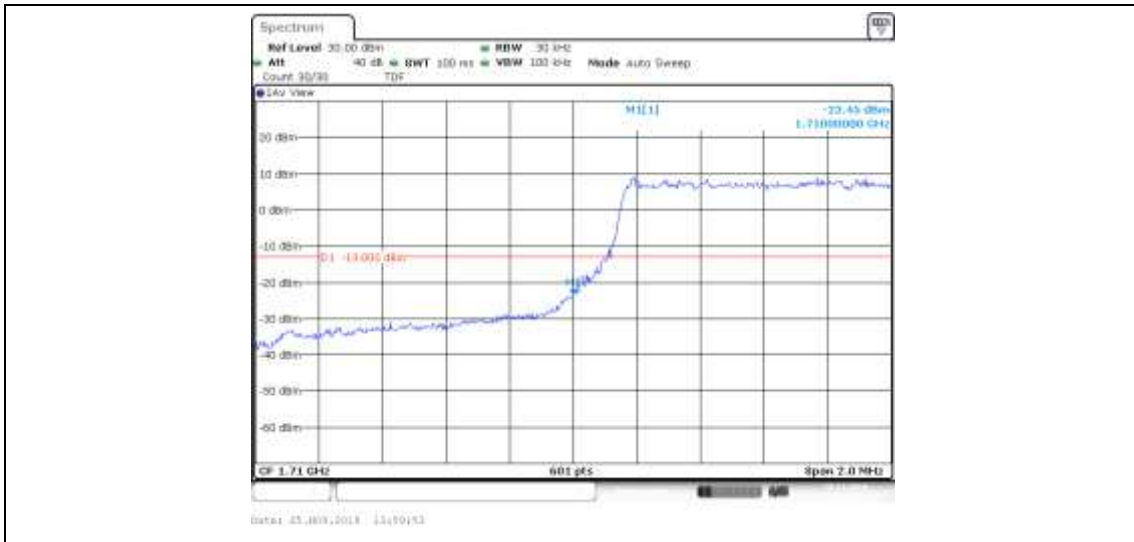


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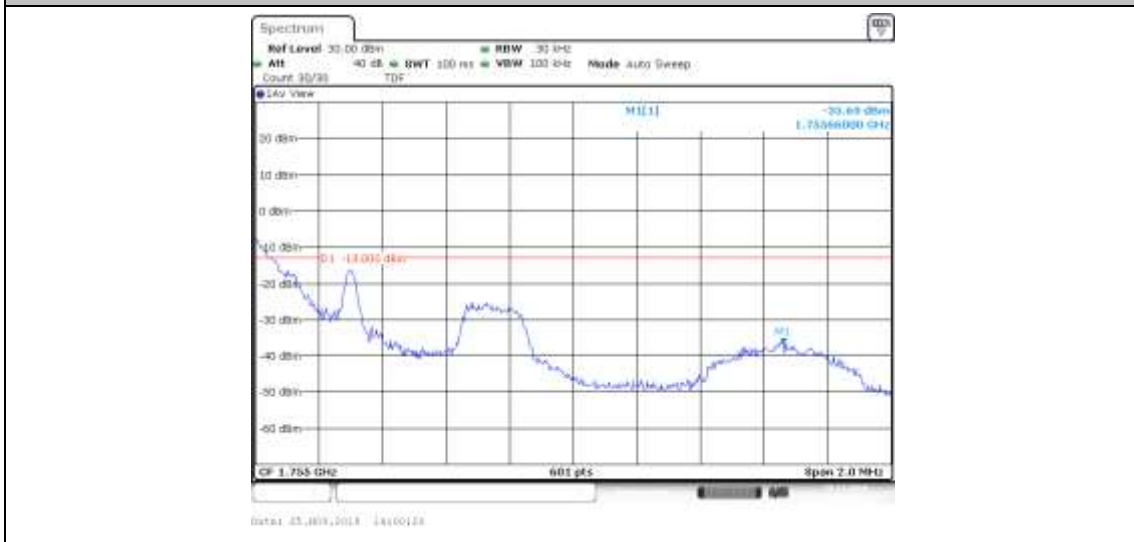
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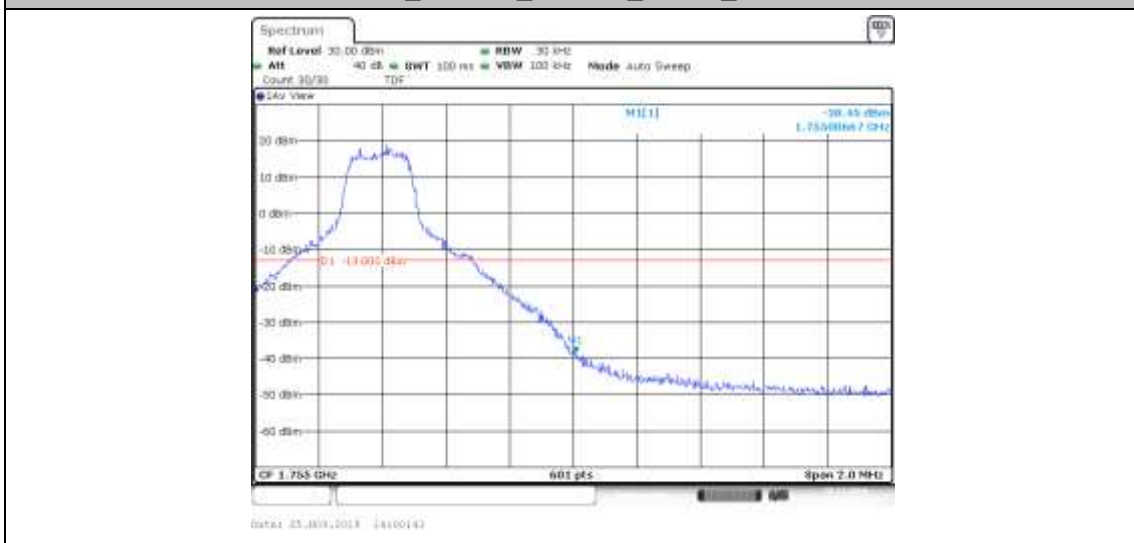
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Band4_1.4MHz_16QAM_20393_1RB#0



Band4_1.4MHz_16QAM_20393_1RB#2

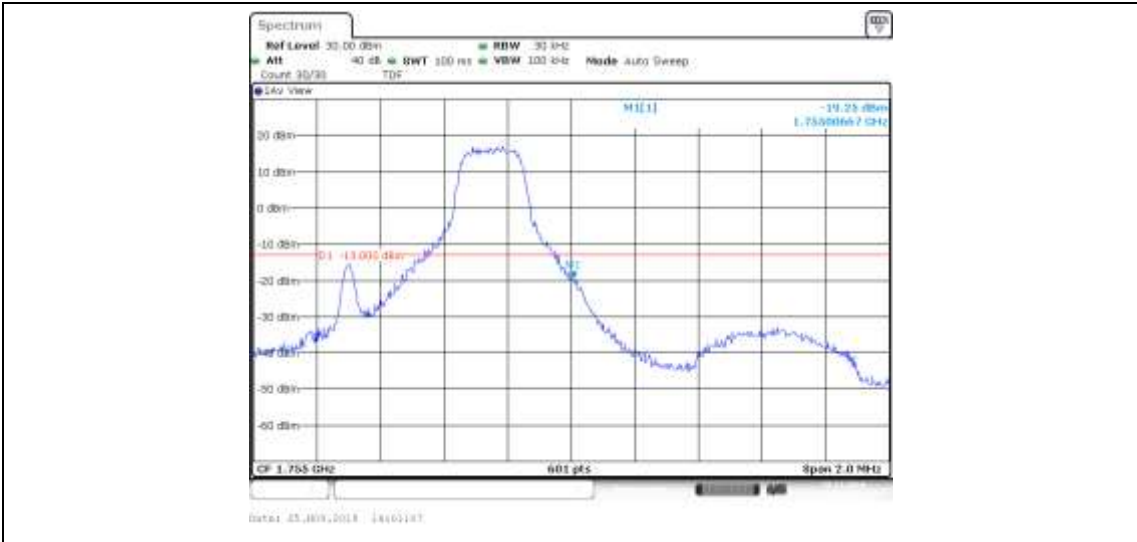


Band4_1.4MHz_16QAM_20393_1RB#5

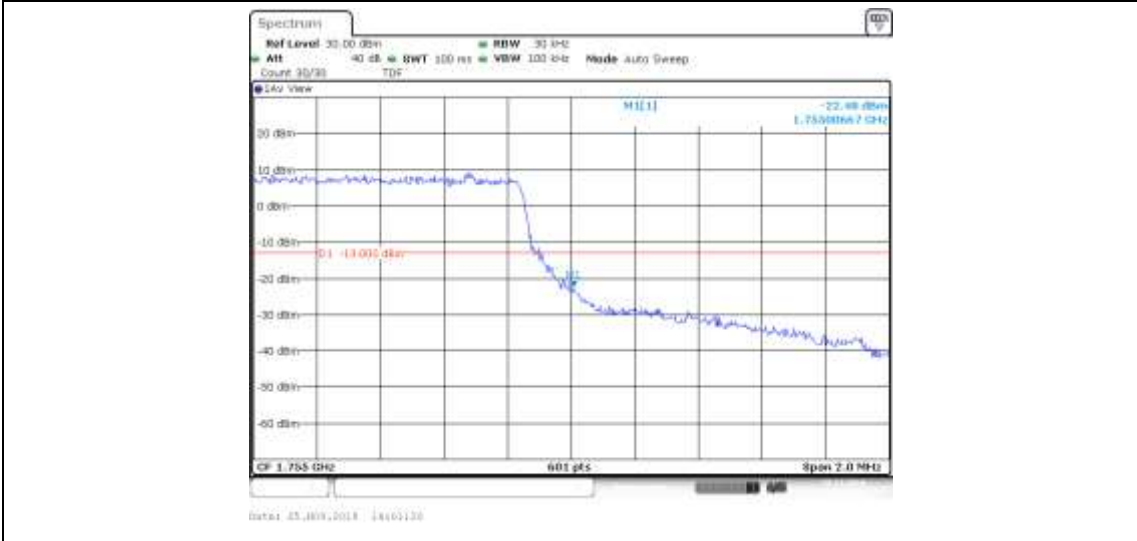
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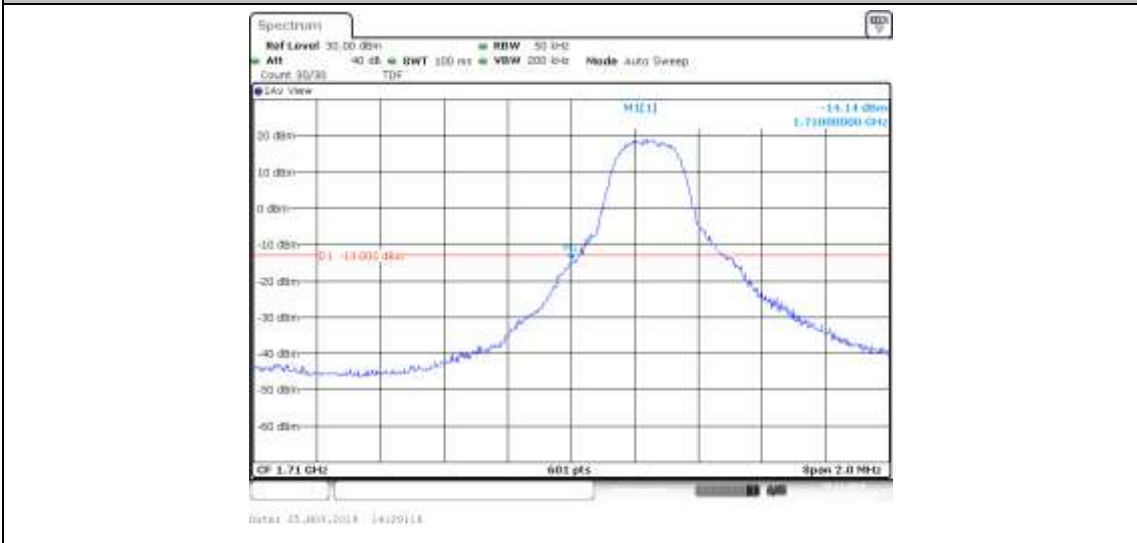
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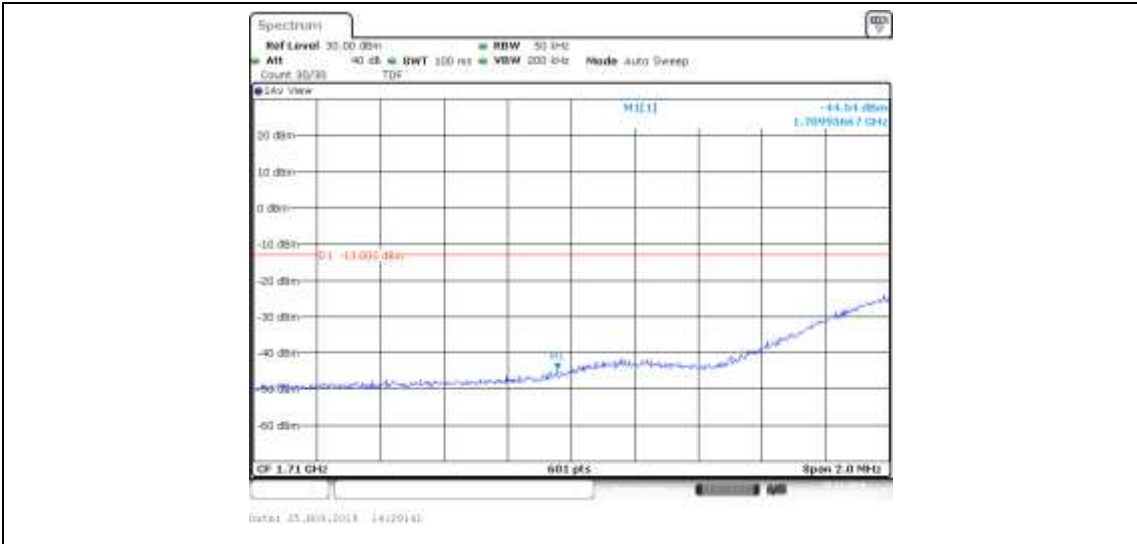
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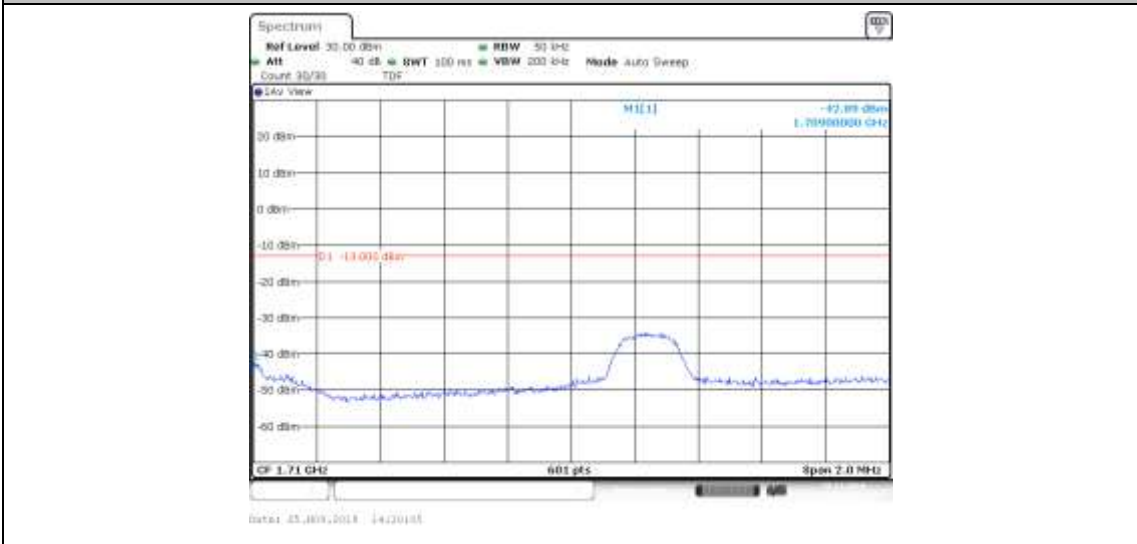
Band4_3MHz_QPSK_19965_1RB#0



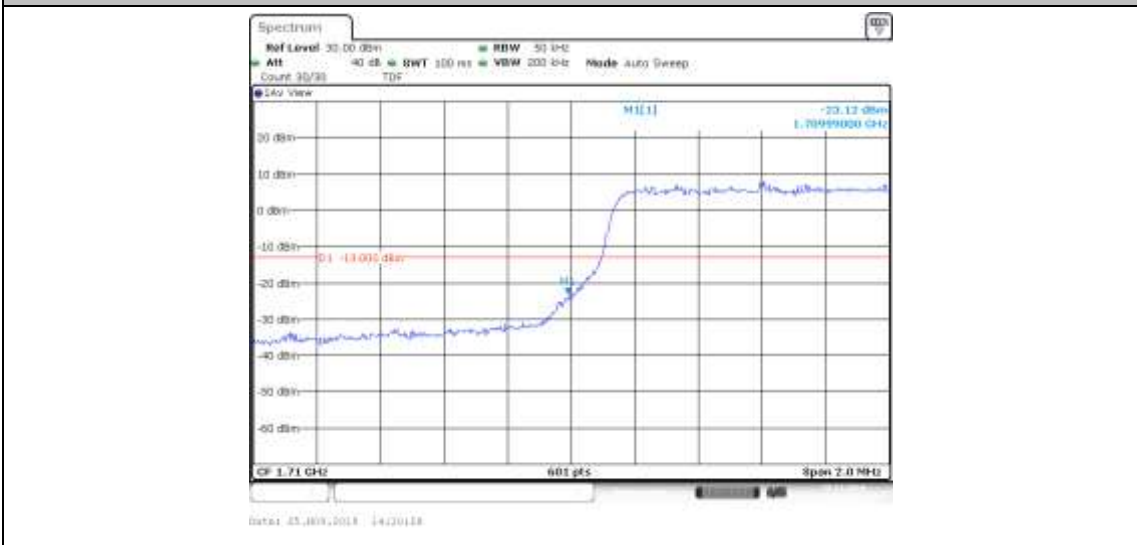
Band4_3MHz_QPSK_19965_1RB#8



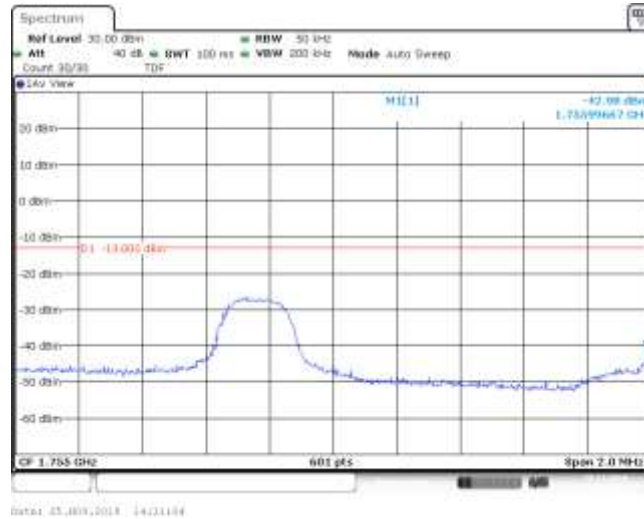
Band4_3MHz_QPSK_19965_1RB#14



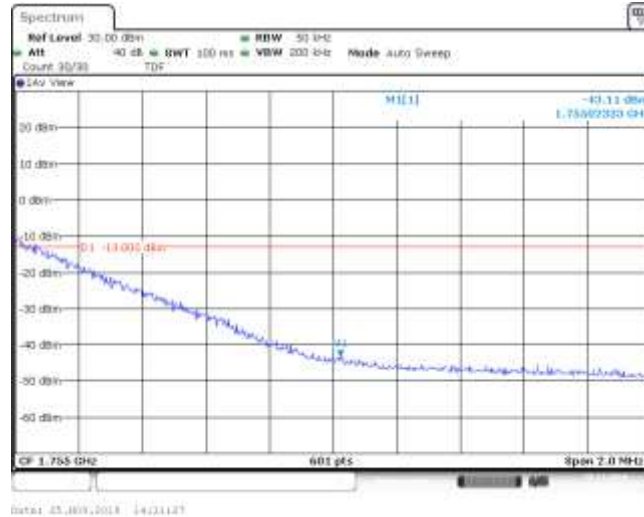
Band4_3MHz_QPSK_19965_15RB#0



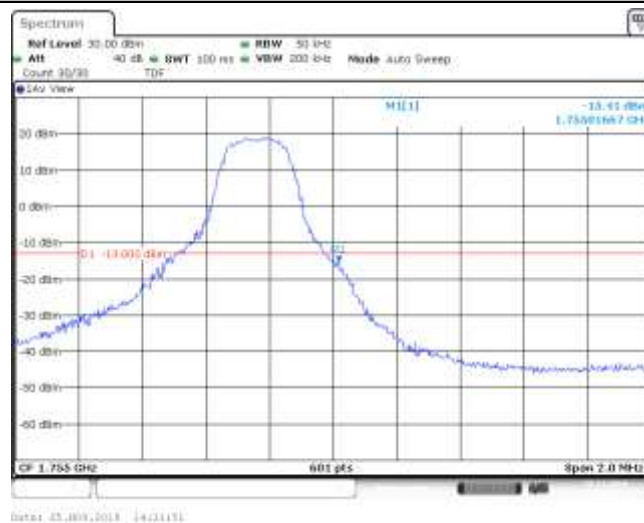
Band4_3MHz_QPSK_20385_1RB#0



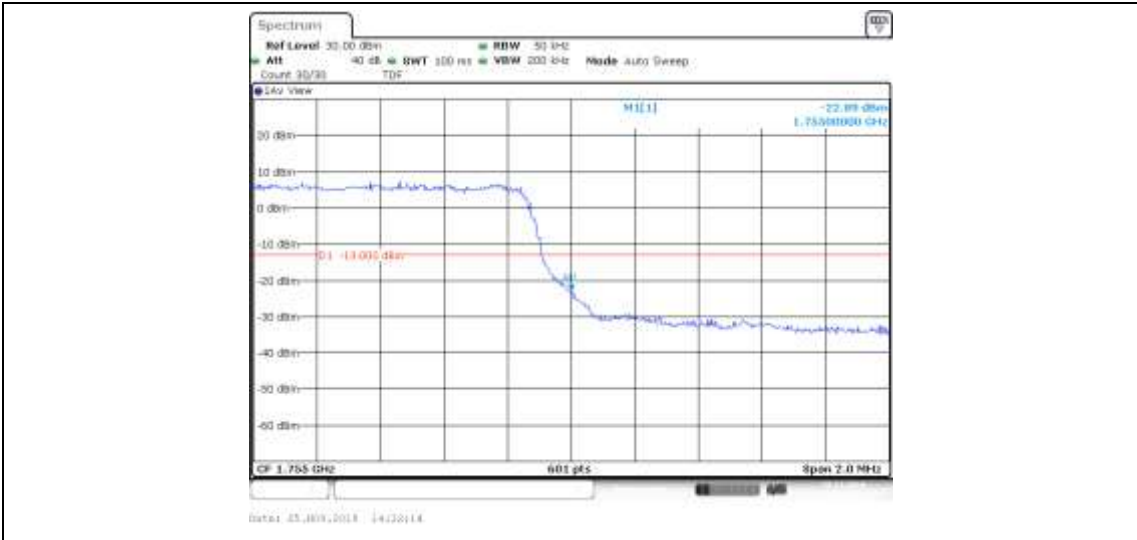
Band4_3MHz_QPSK_20385_1RB#8



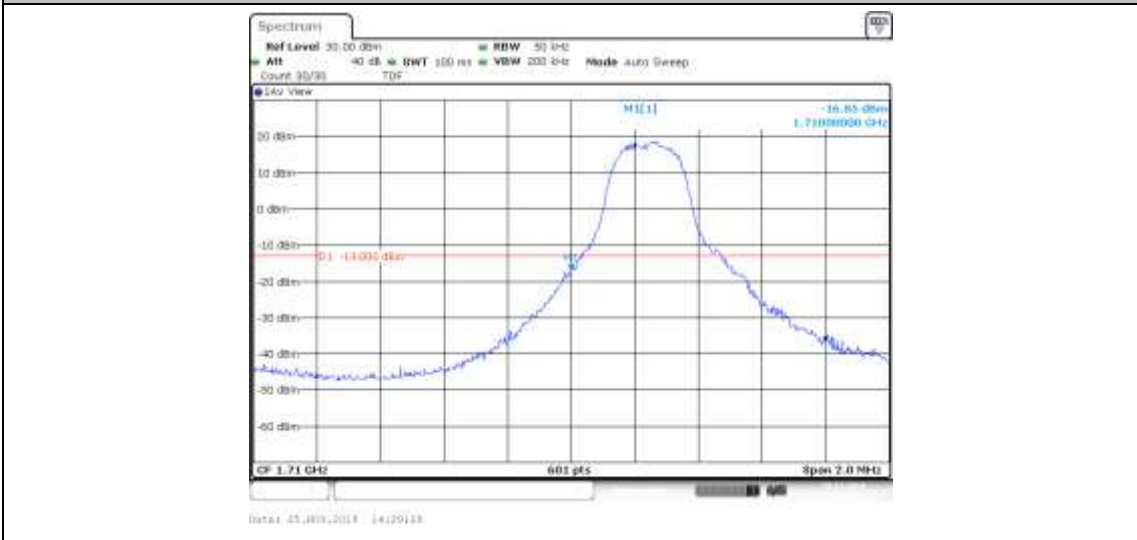
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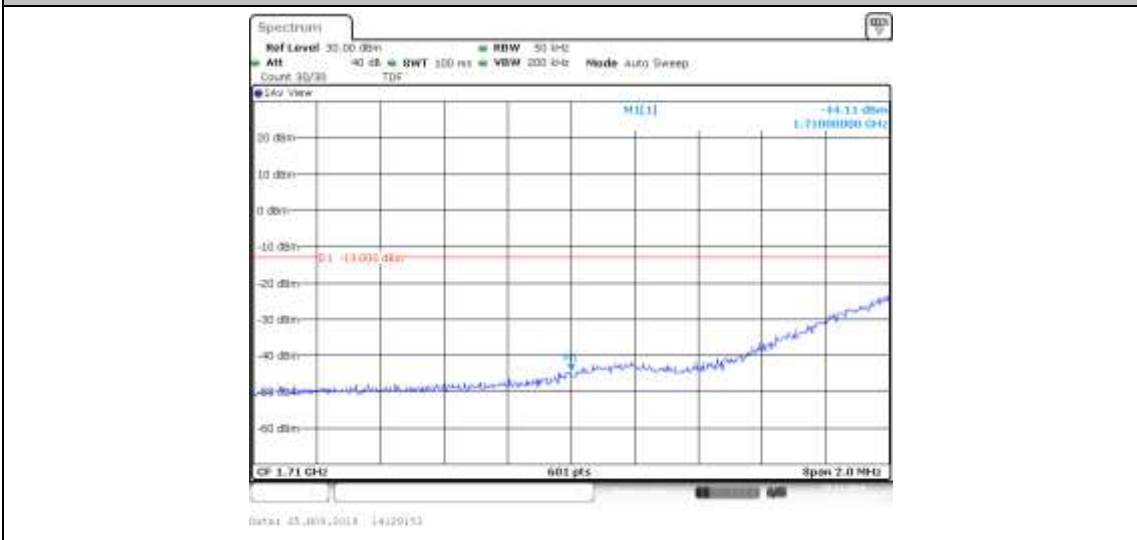
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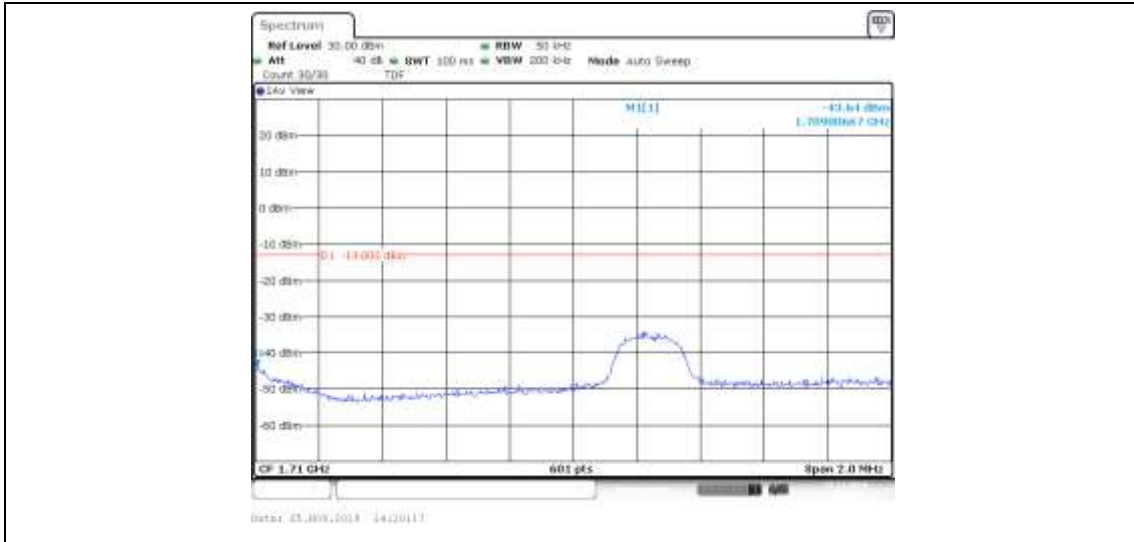
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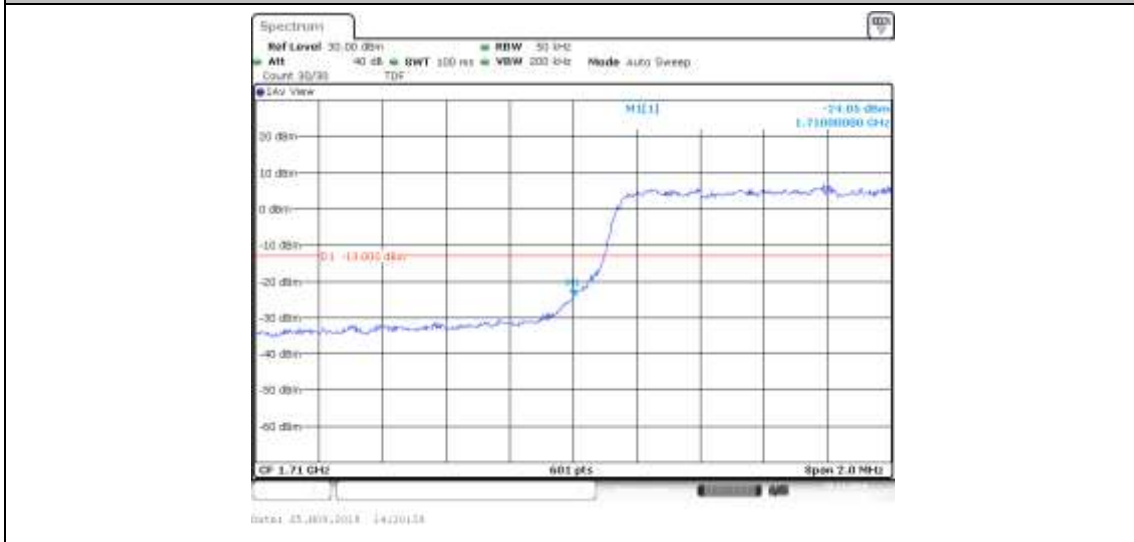
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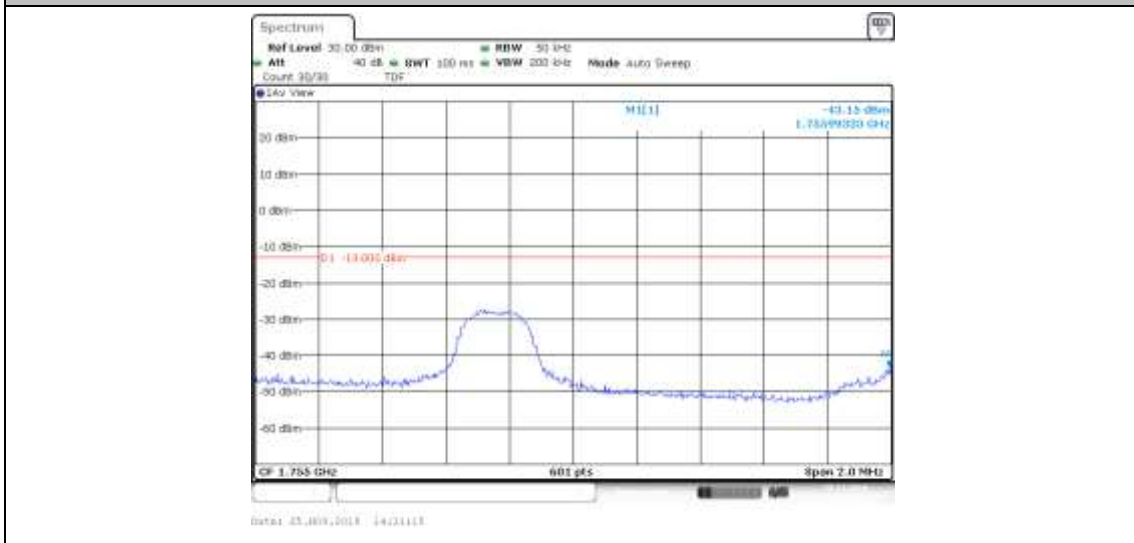
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Band4_3MHz_16QAM_19965_15RB#0



Band4_3MHz_16QAM_20385_1RB#0

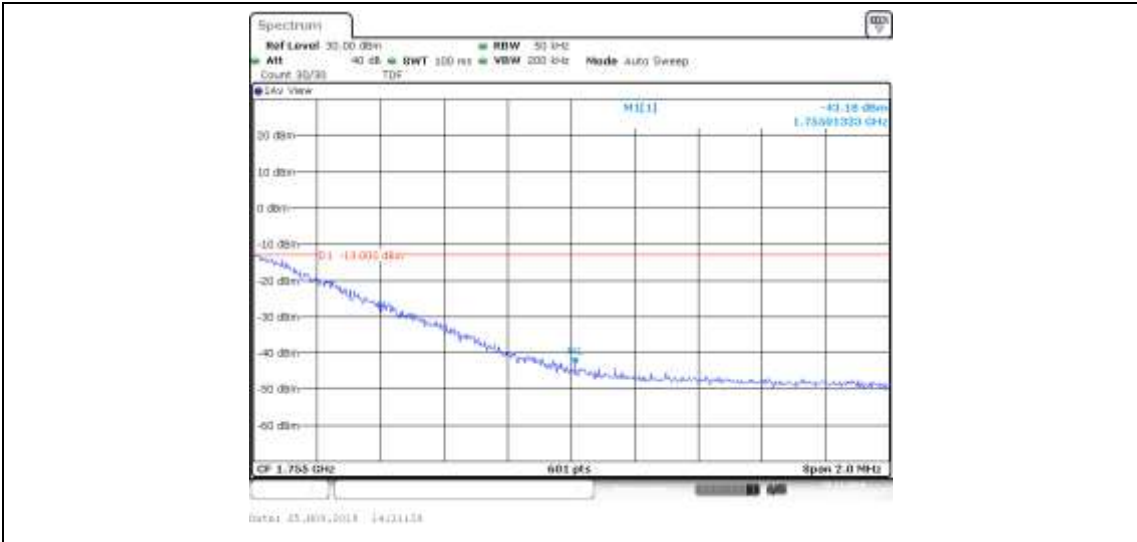


Band4_3MHz_16QAM_20385_1RB#8

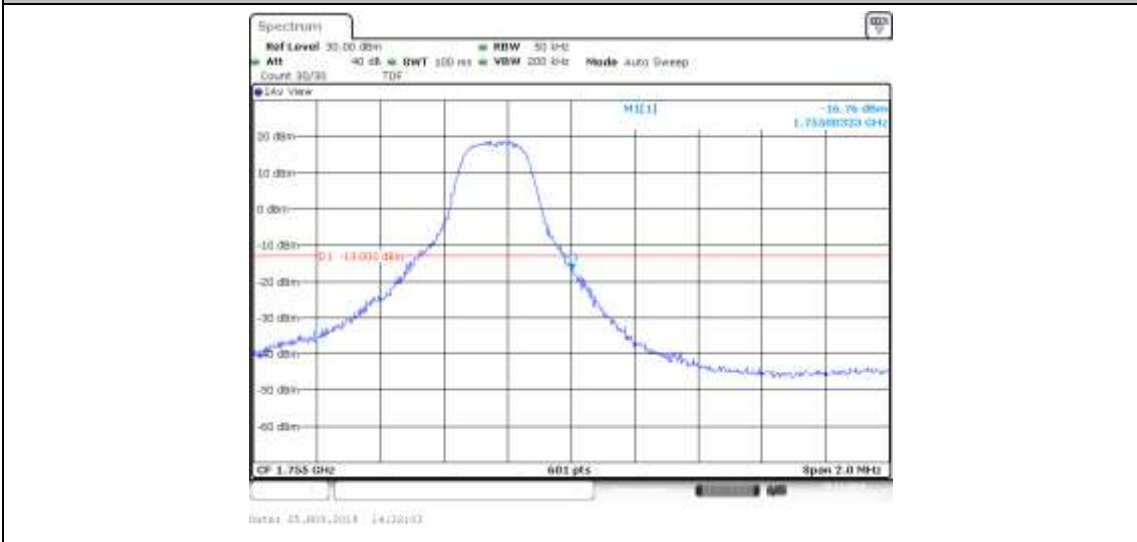
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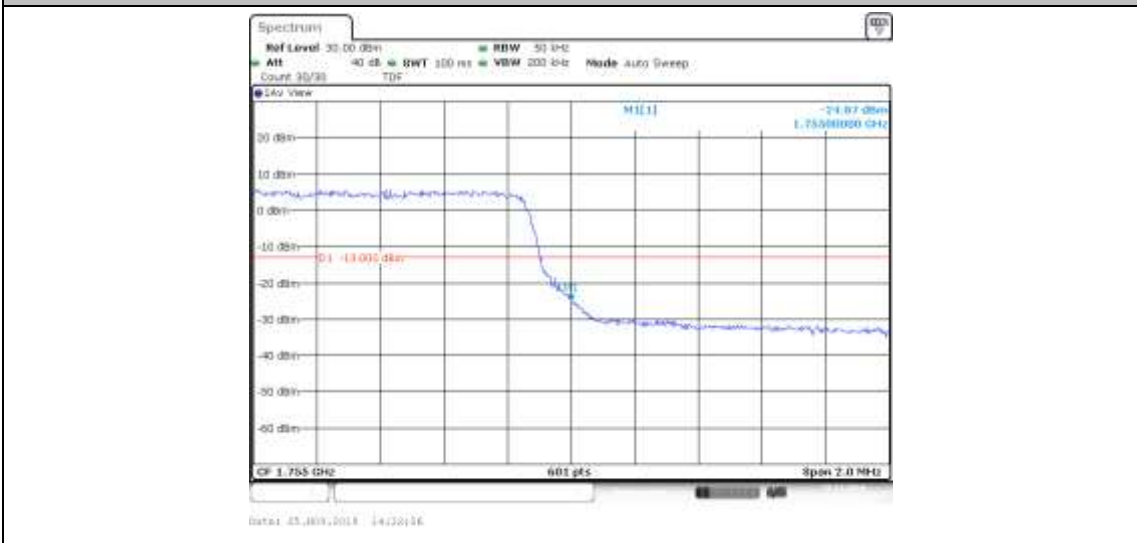
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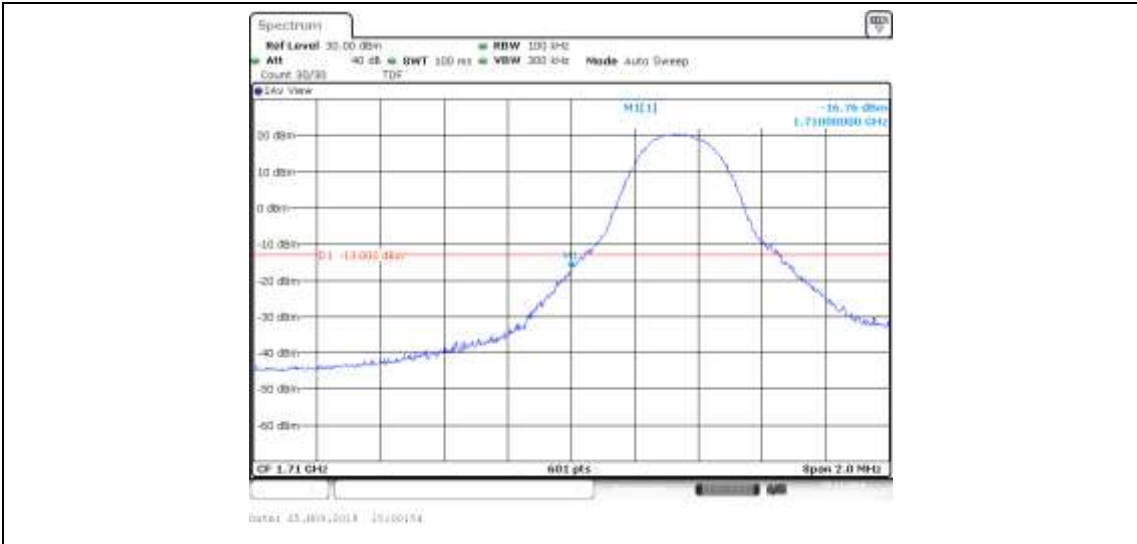
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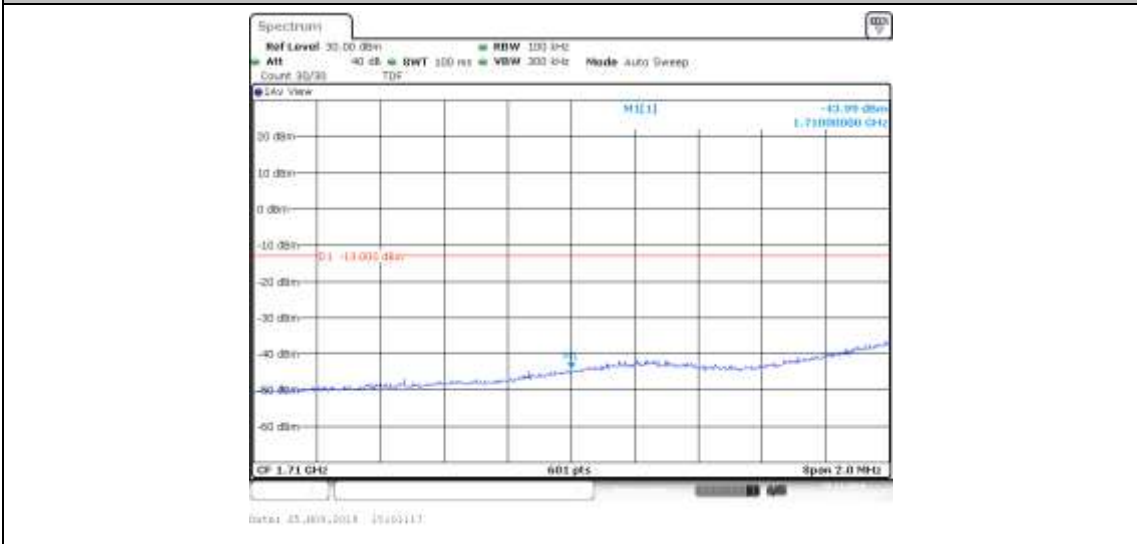
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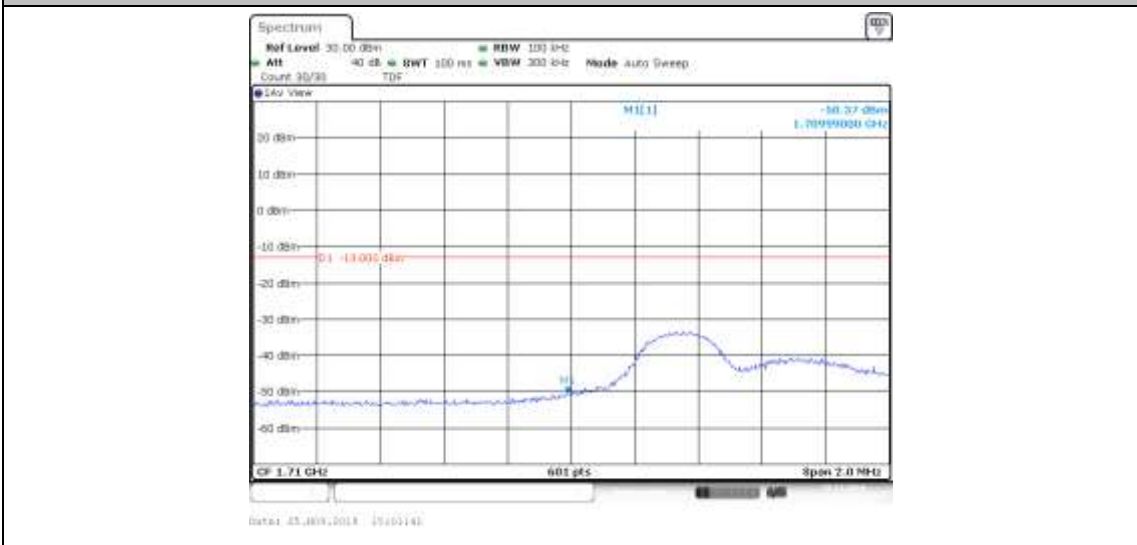
Band4_5MHz_QPSK_19975_1RB#0



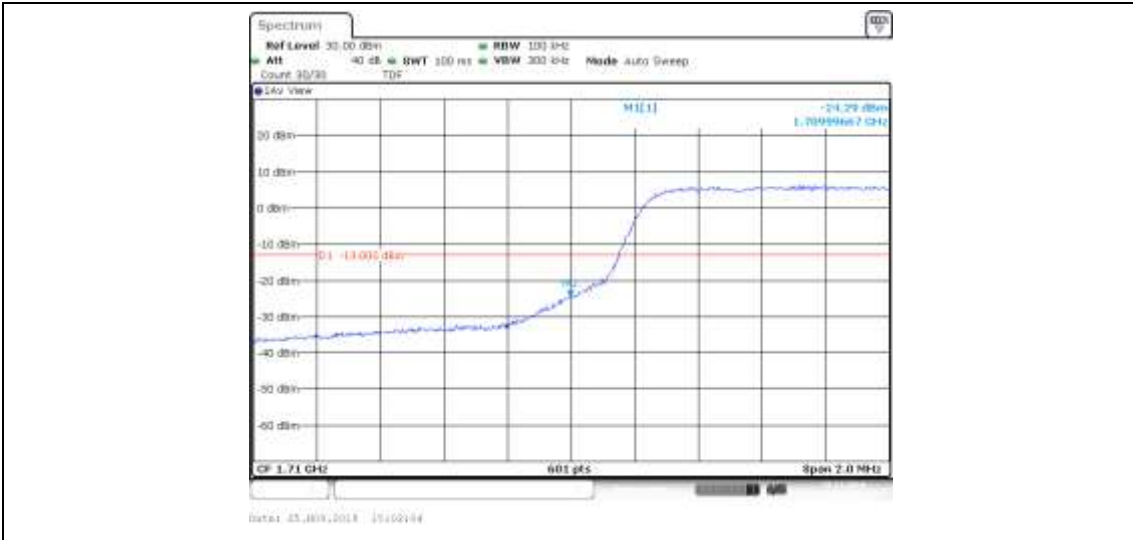
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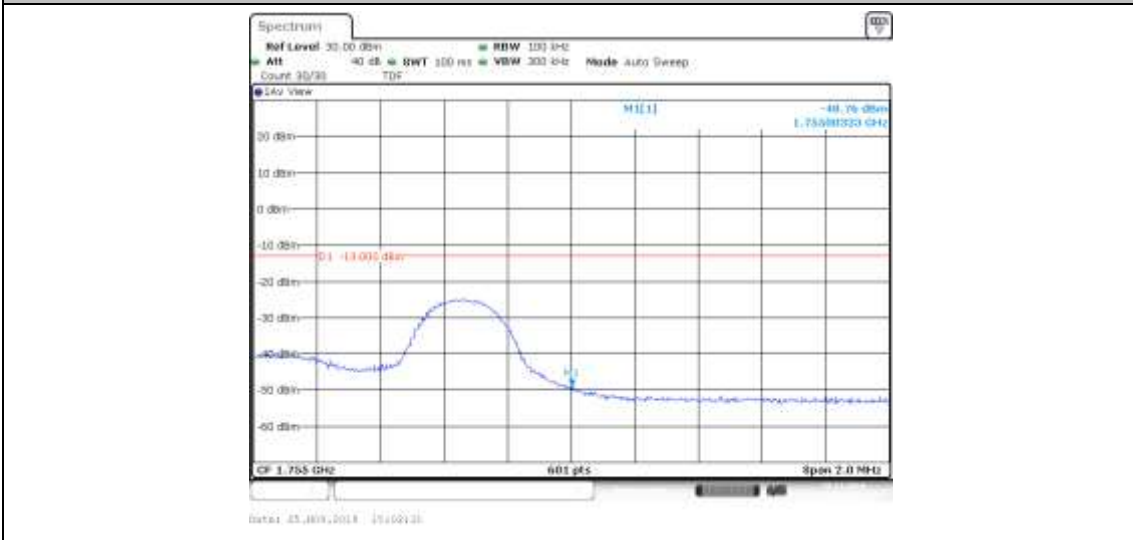
Band4_5MHz_QPSK_19975_1RB#24



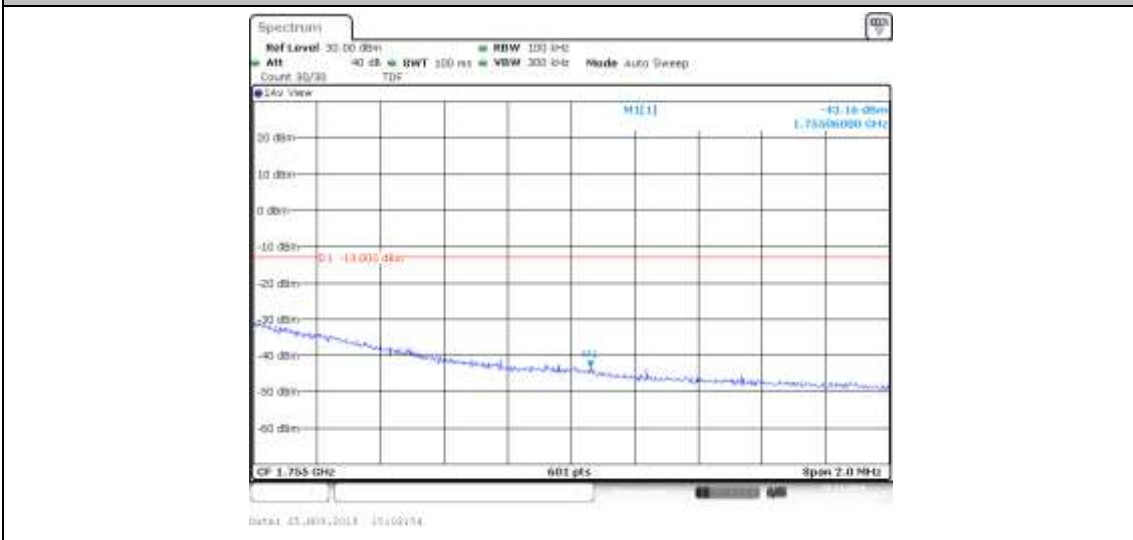
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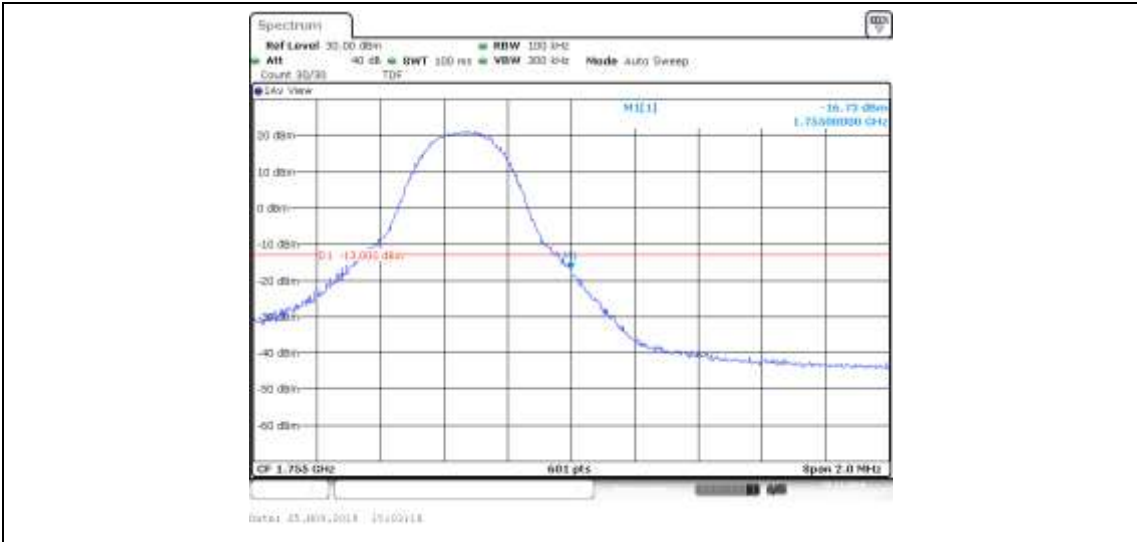
Band4_5MHz_QPSK_20375_1RB#0



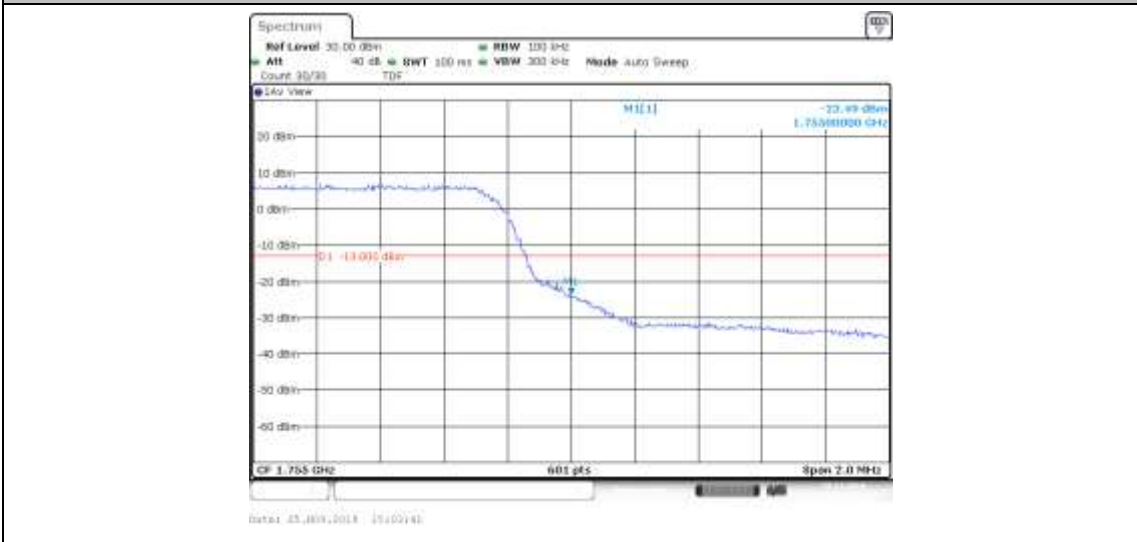
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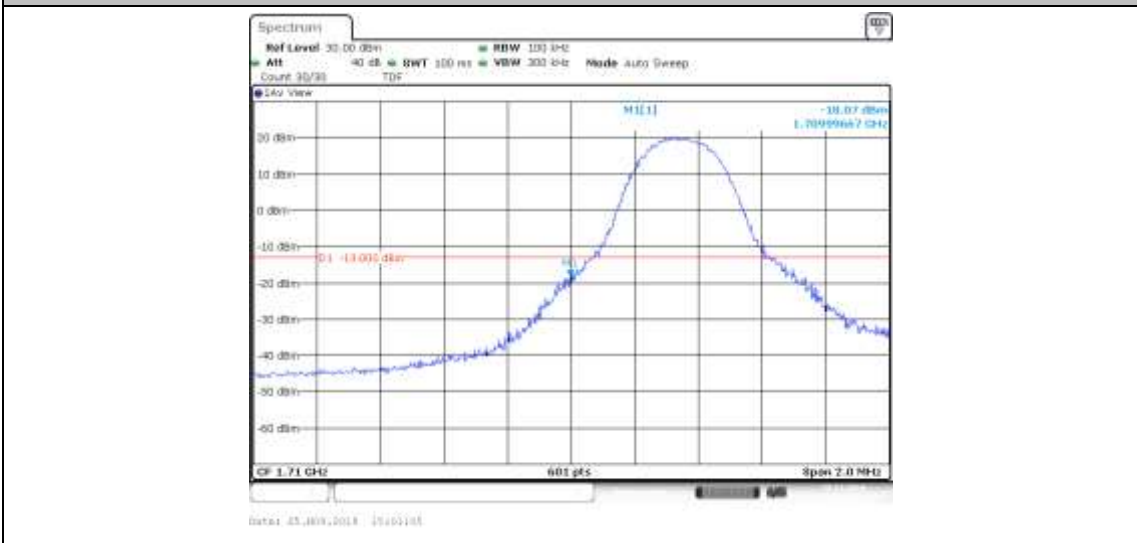
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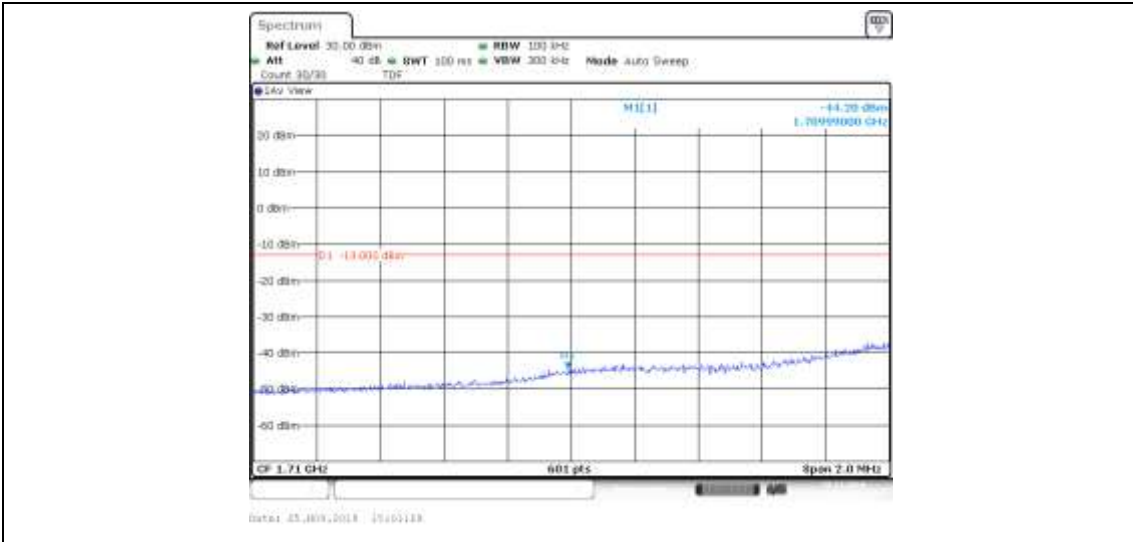
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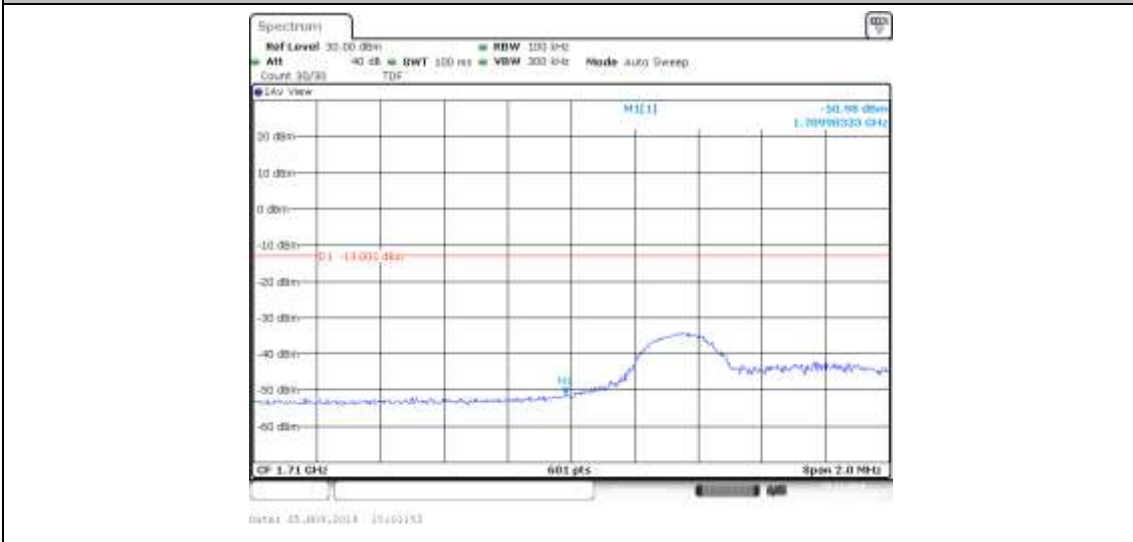
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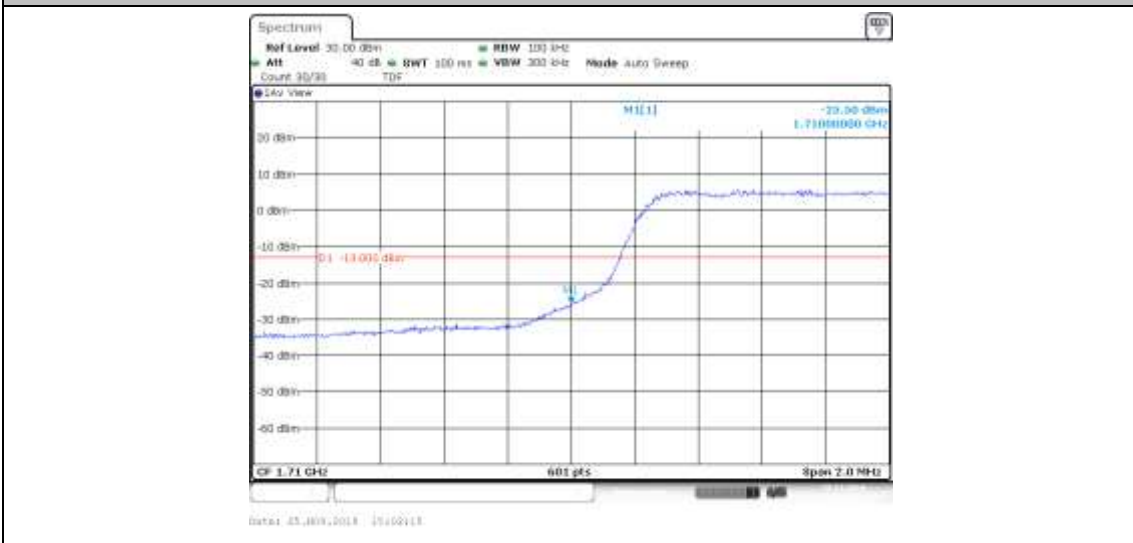
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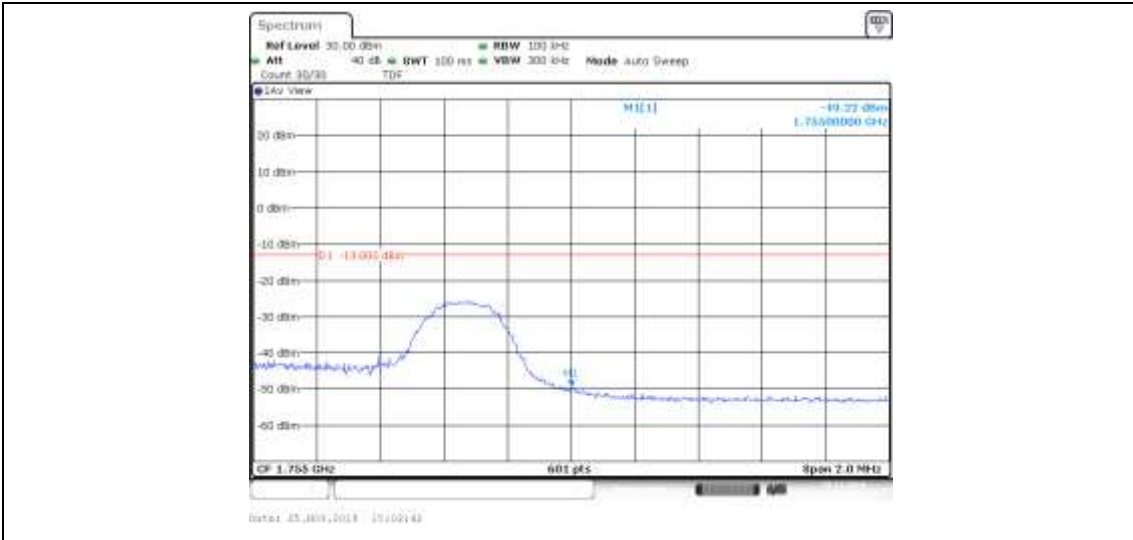
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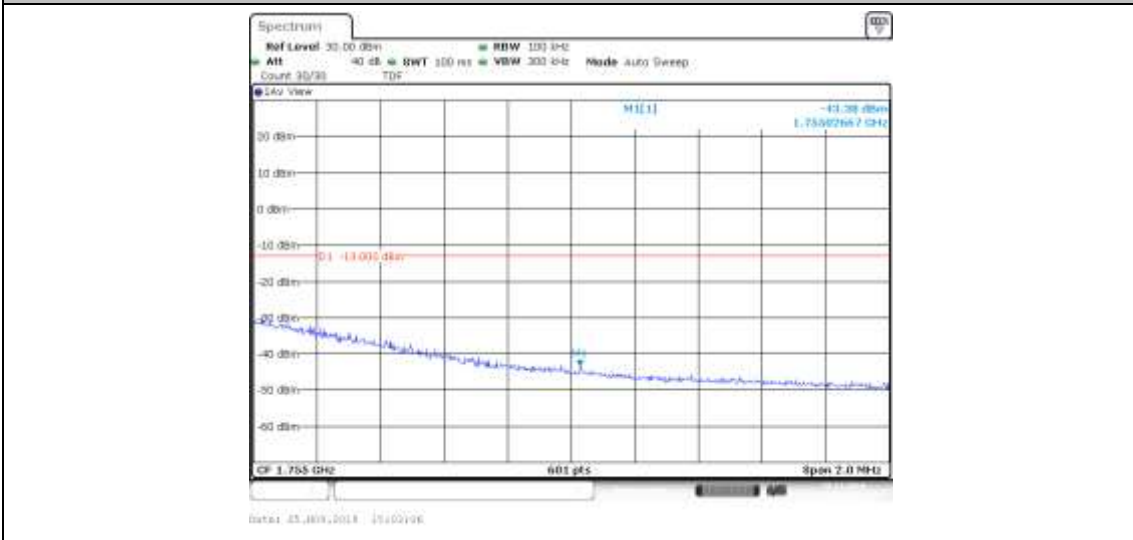
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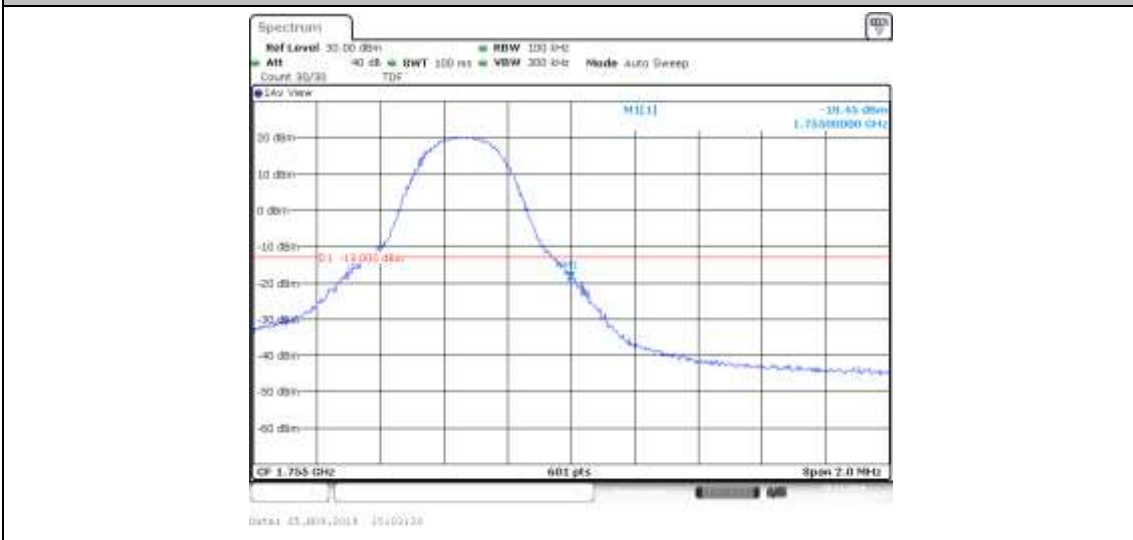
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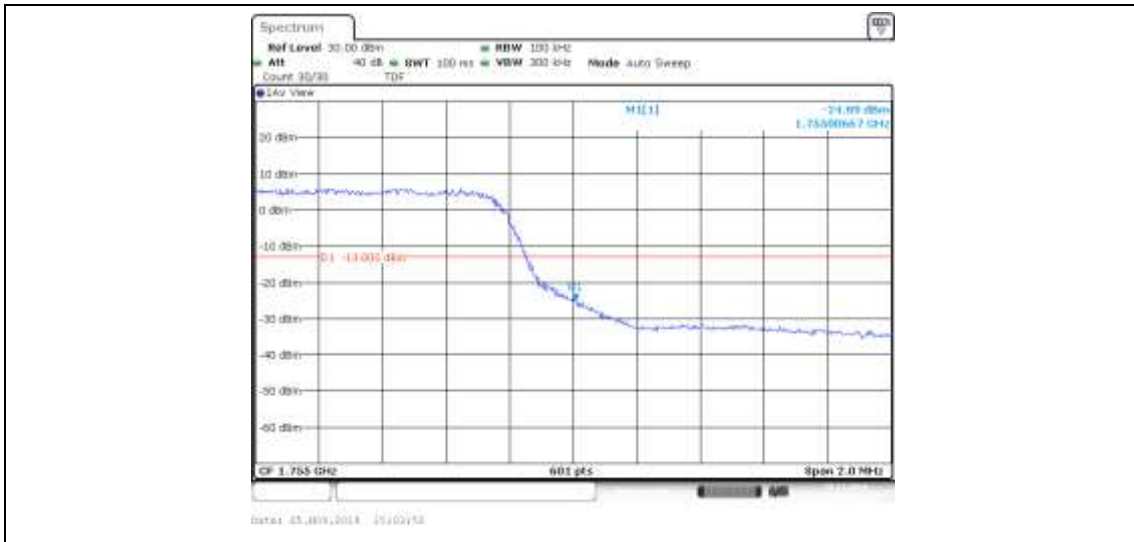
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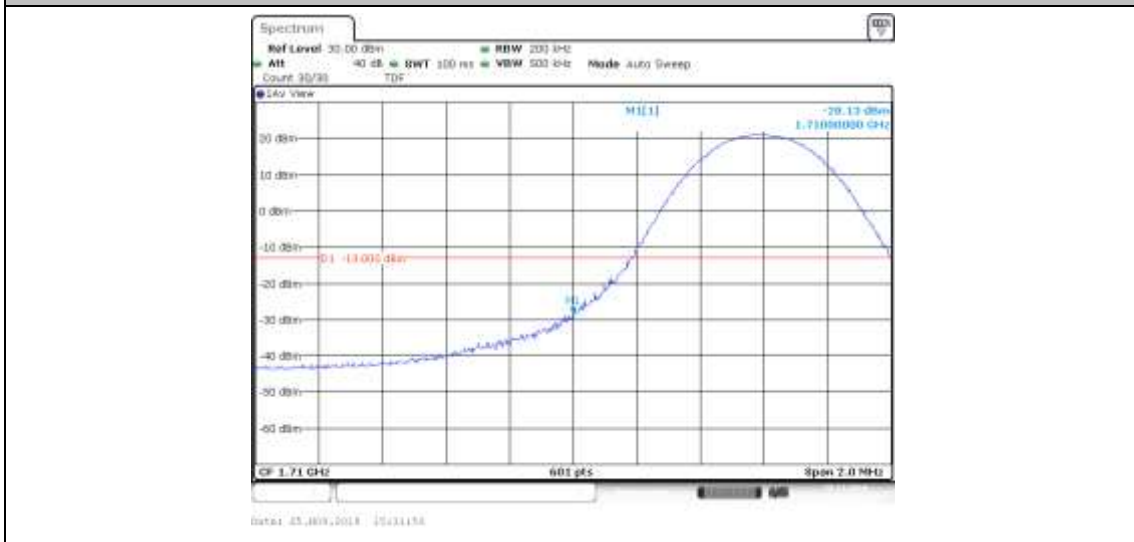
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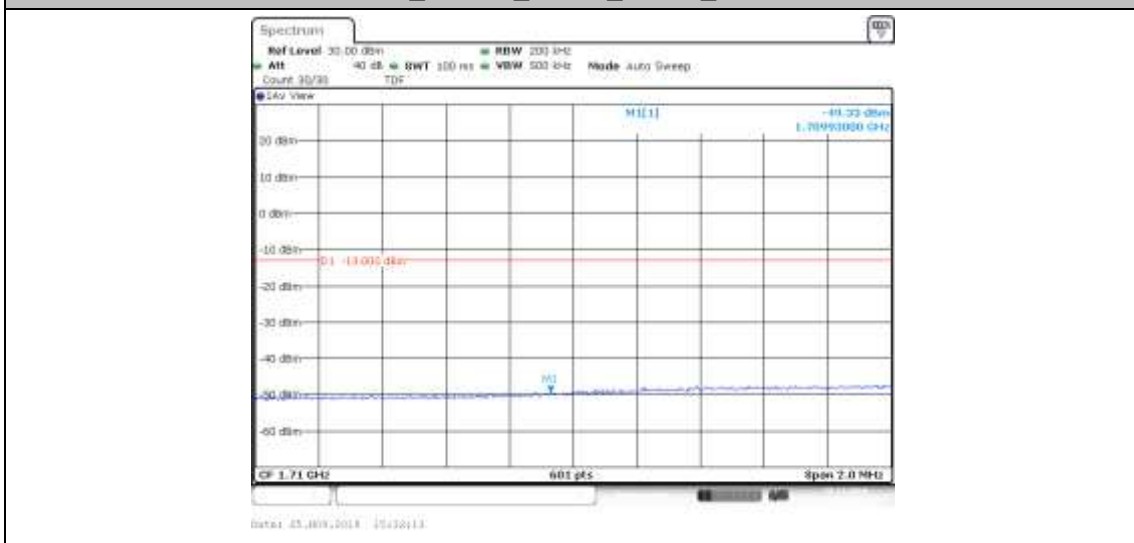
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Band4_10MHz_QPSK_20000_1RB#0



Band4_10MHz_QPSK_20000_1RB#24

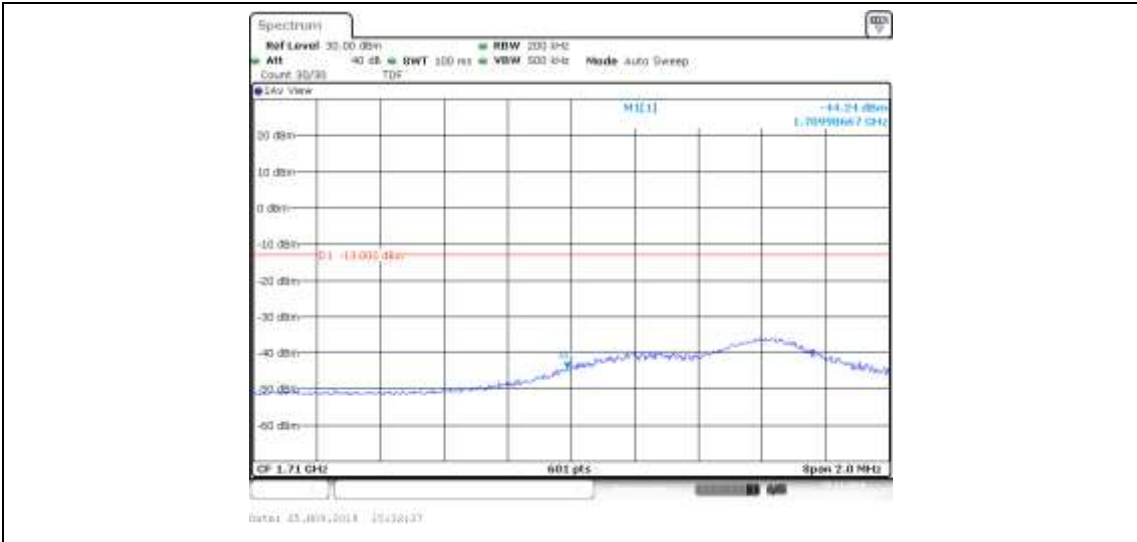


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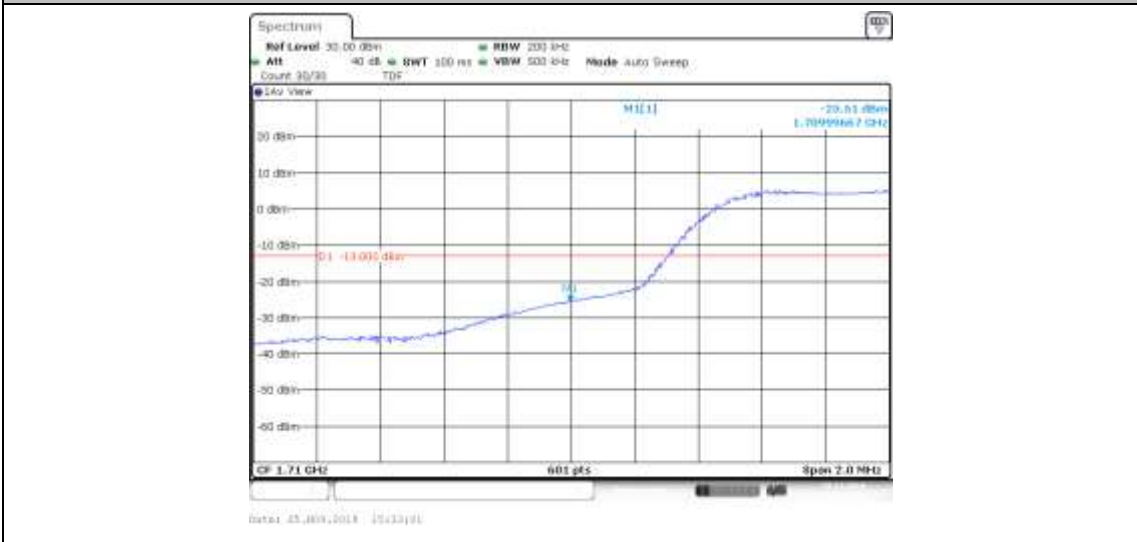
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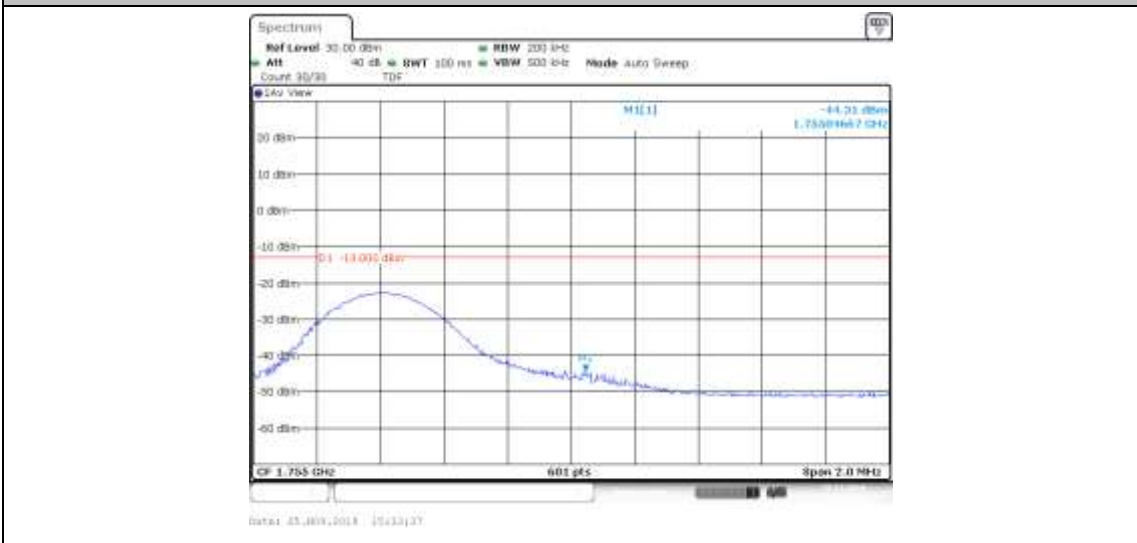
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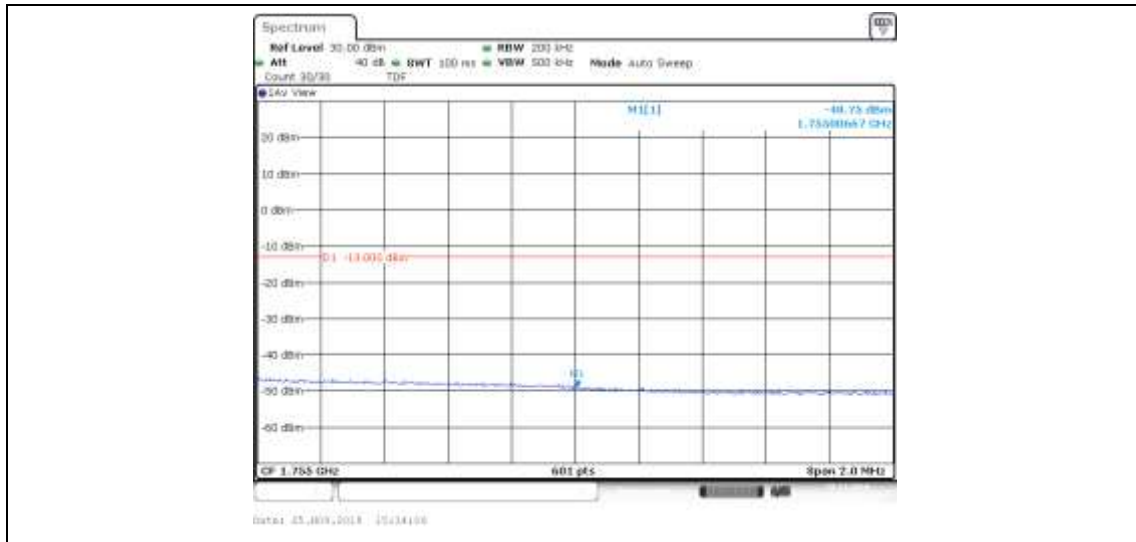
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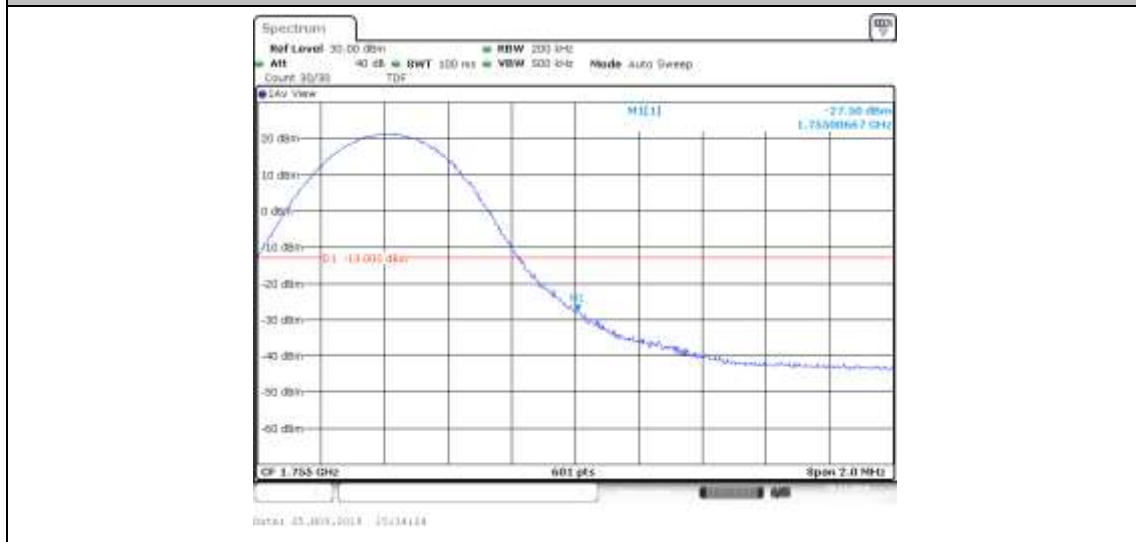
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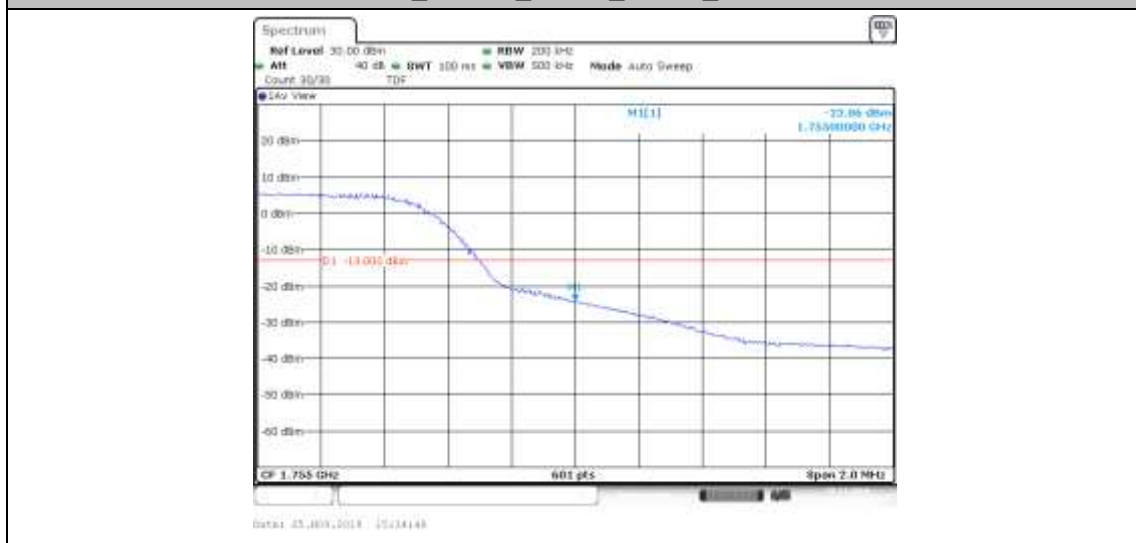
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Band4_10MHz_QPSK_20350_1RB#49



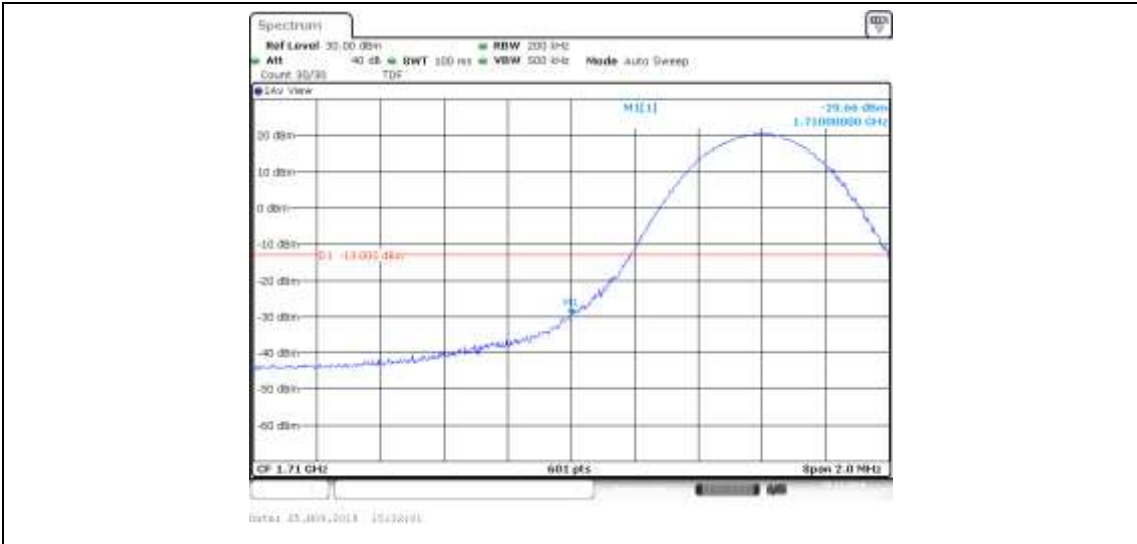
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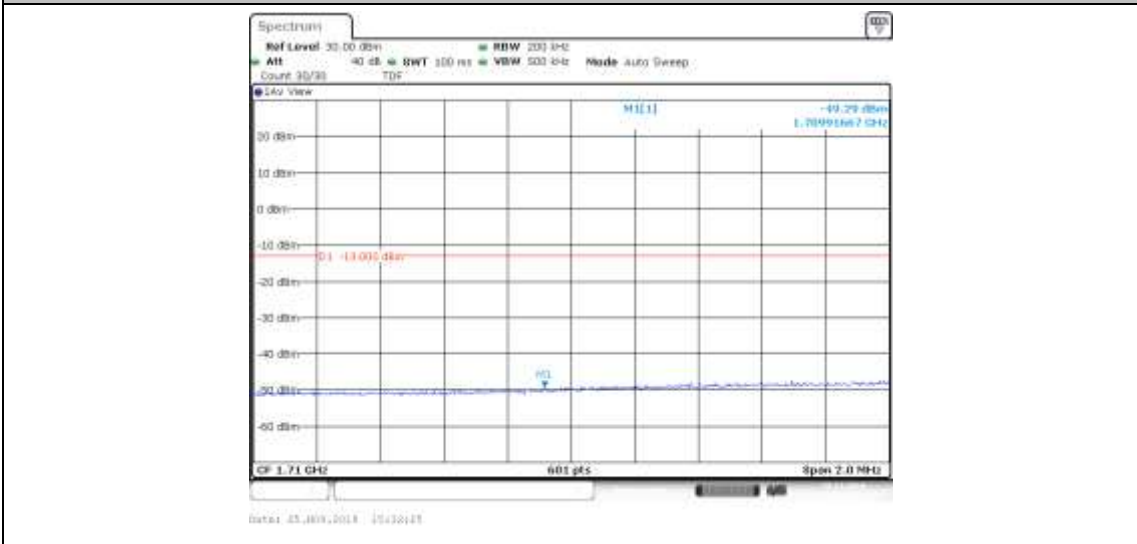
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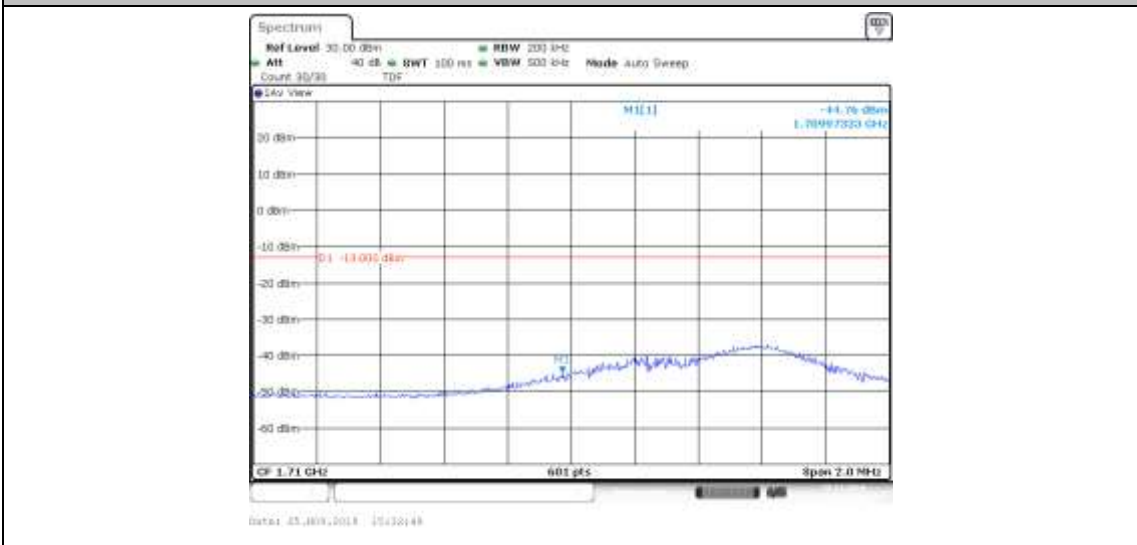
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
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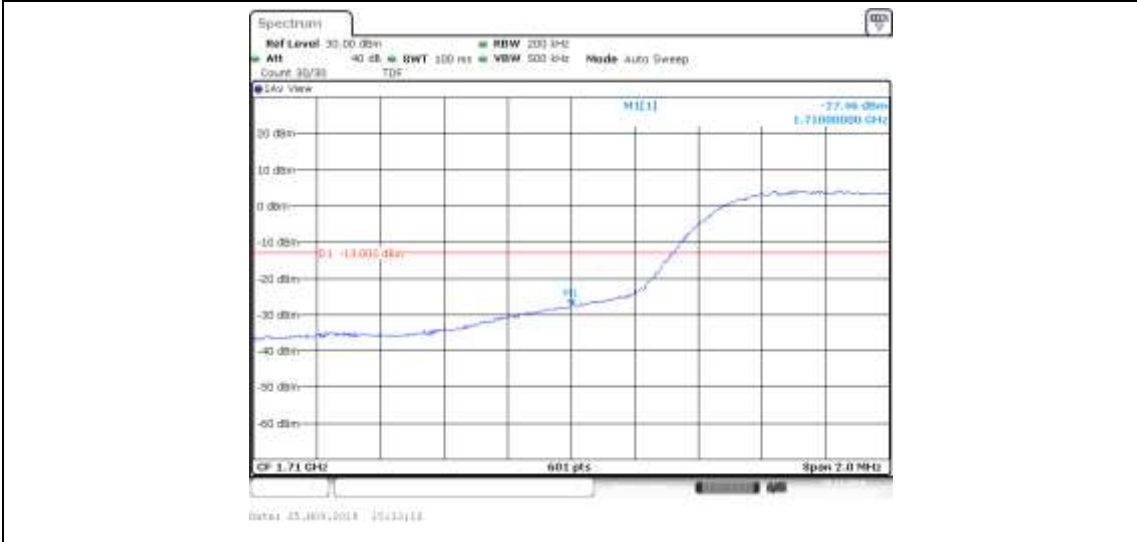
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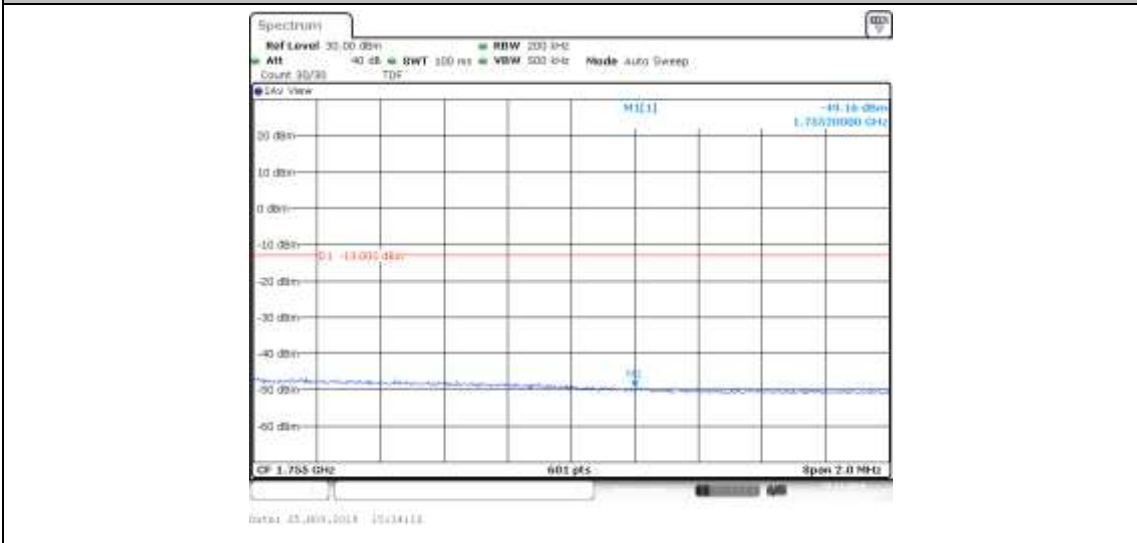
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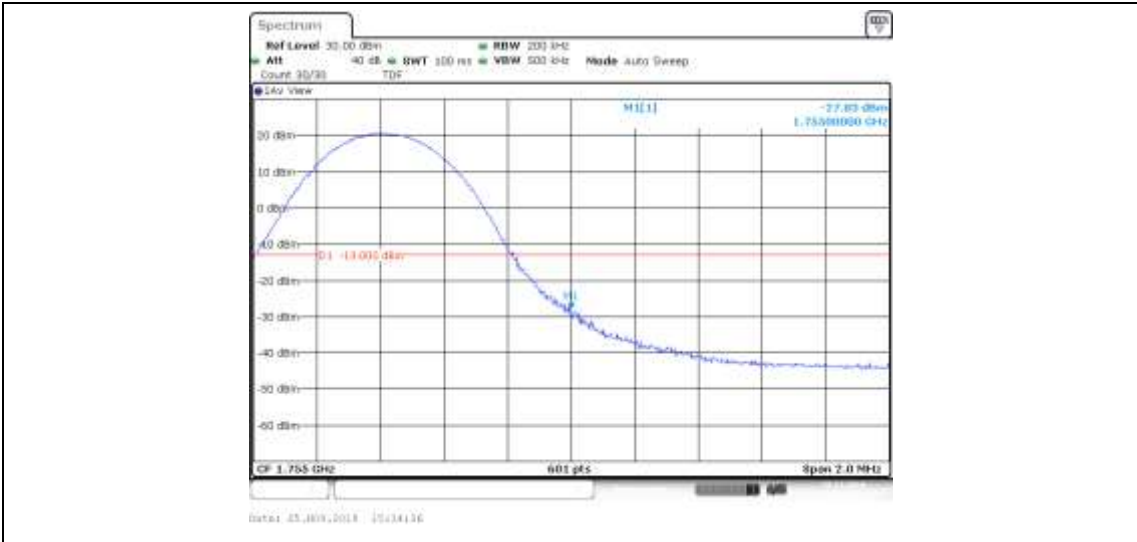
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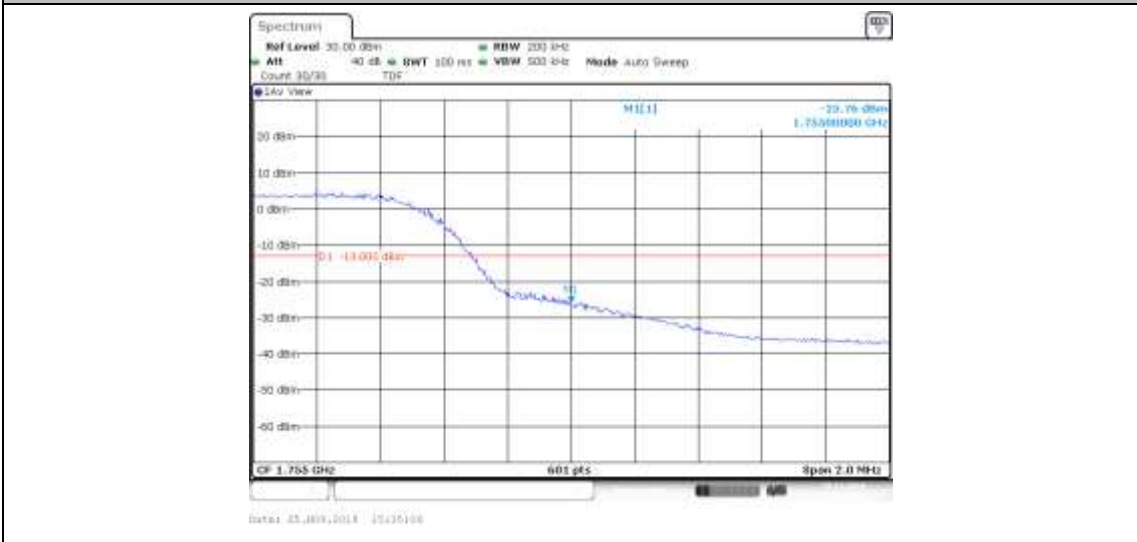
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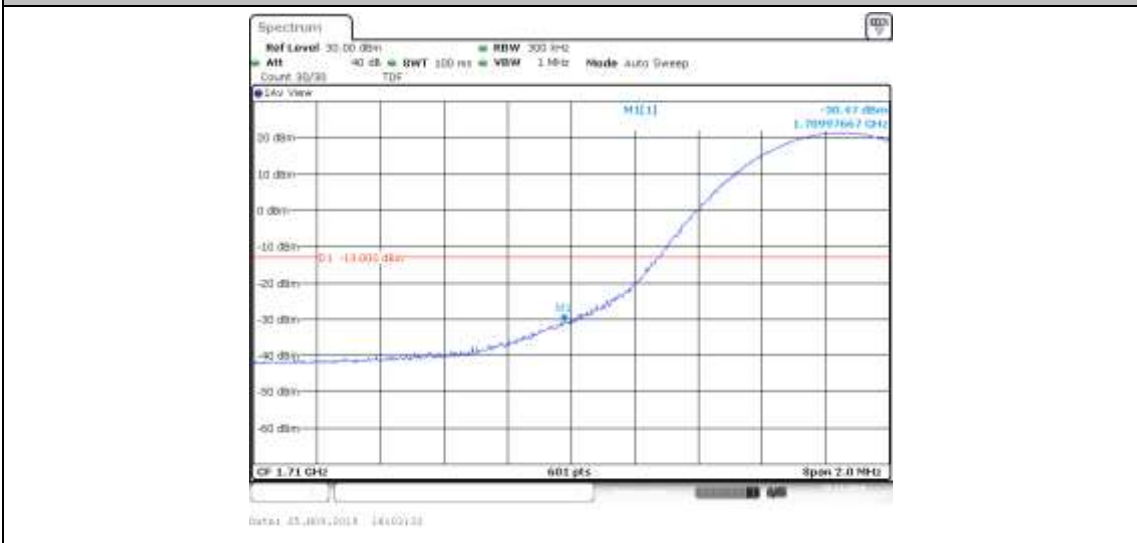
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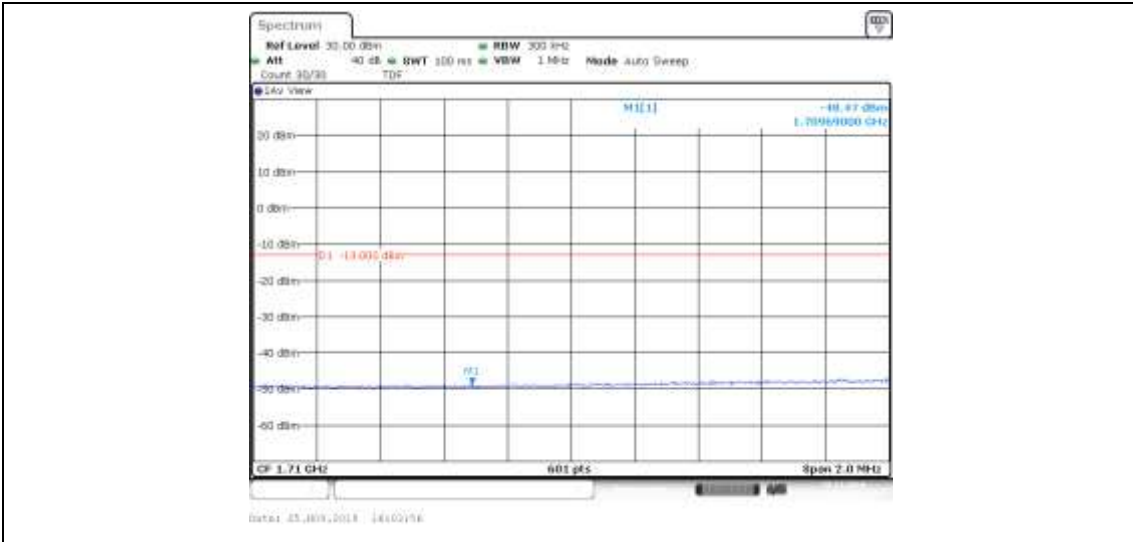
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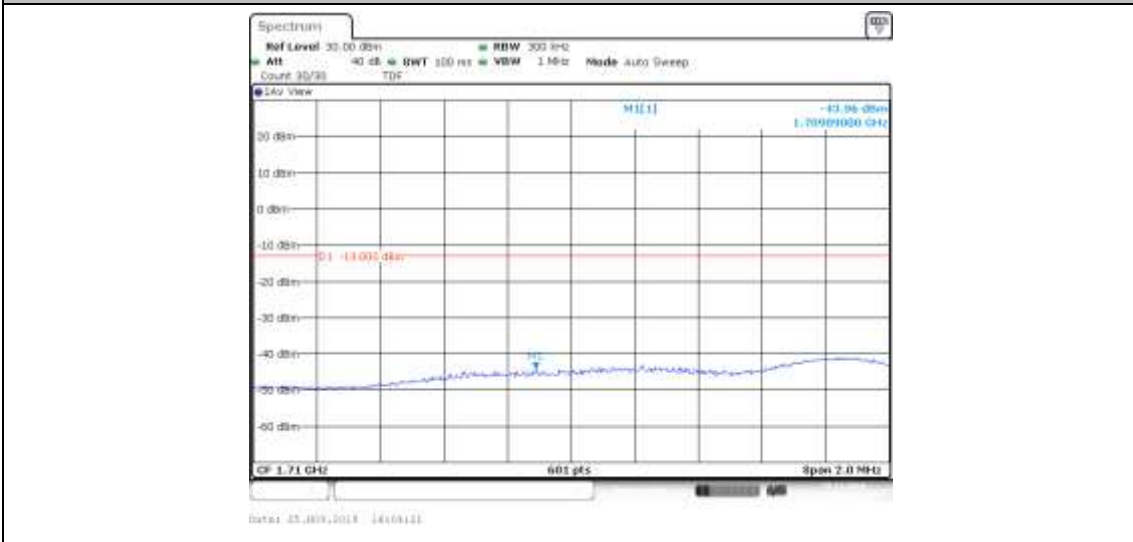
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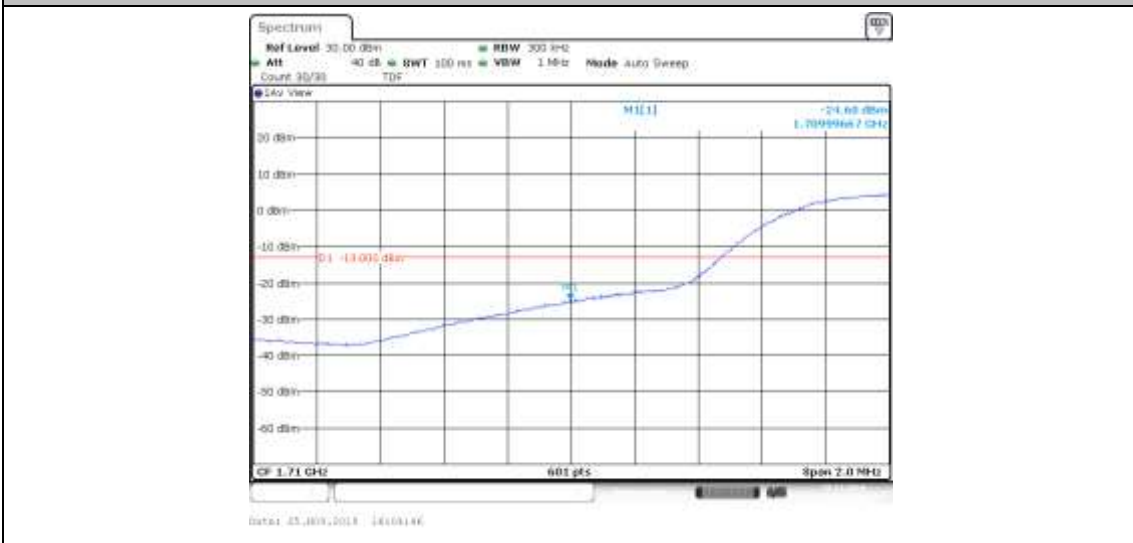
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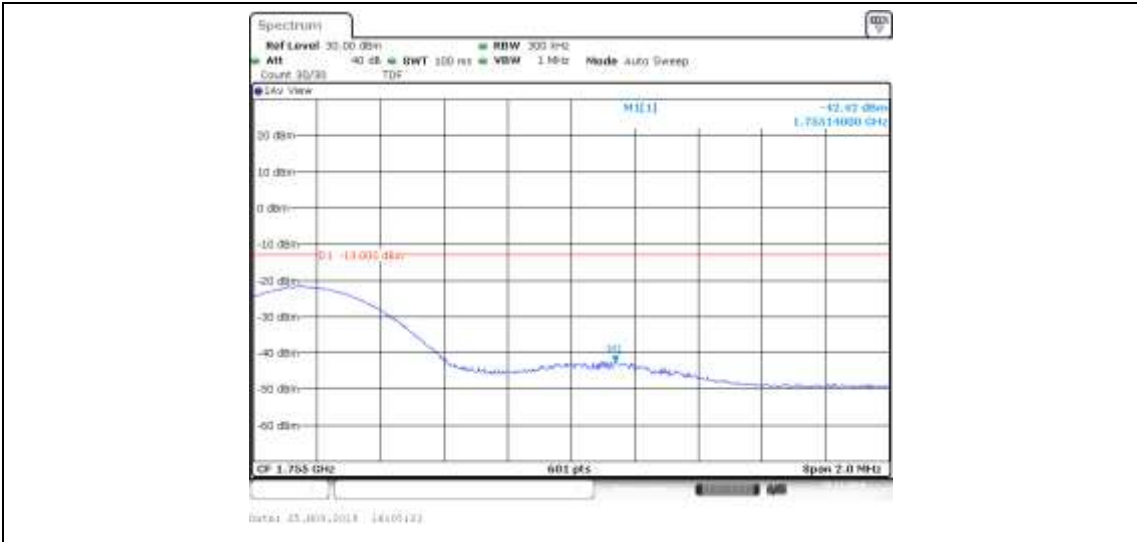
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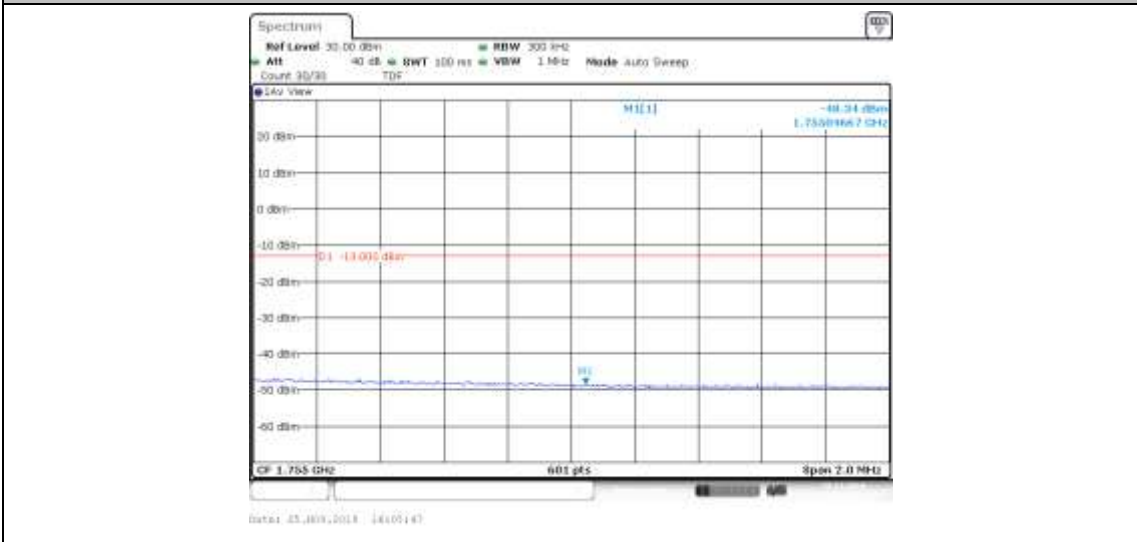
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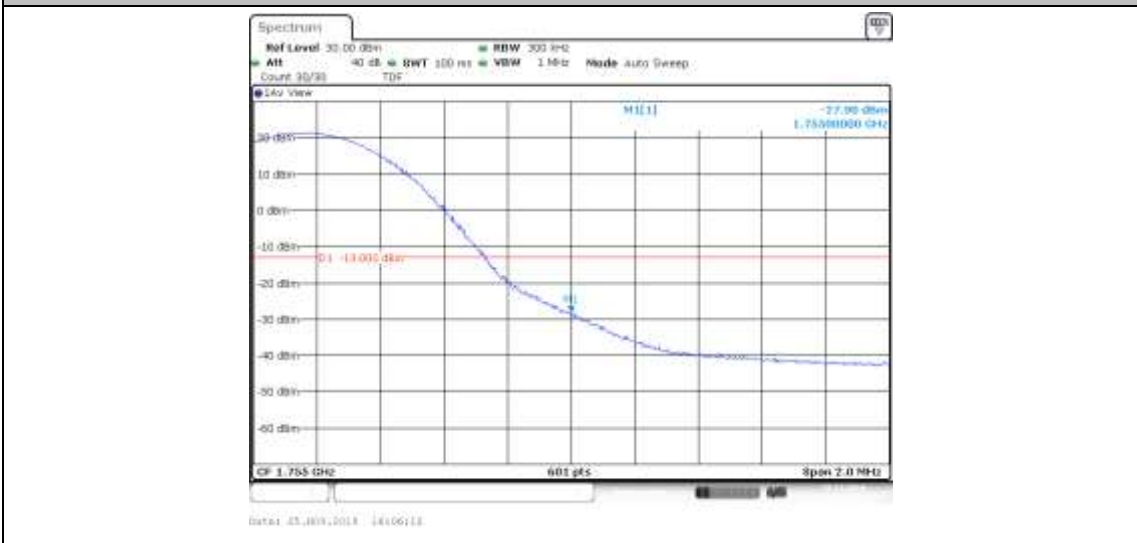
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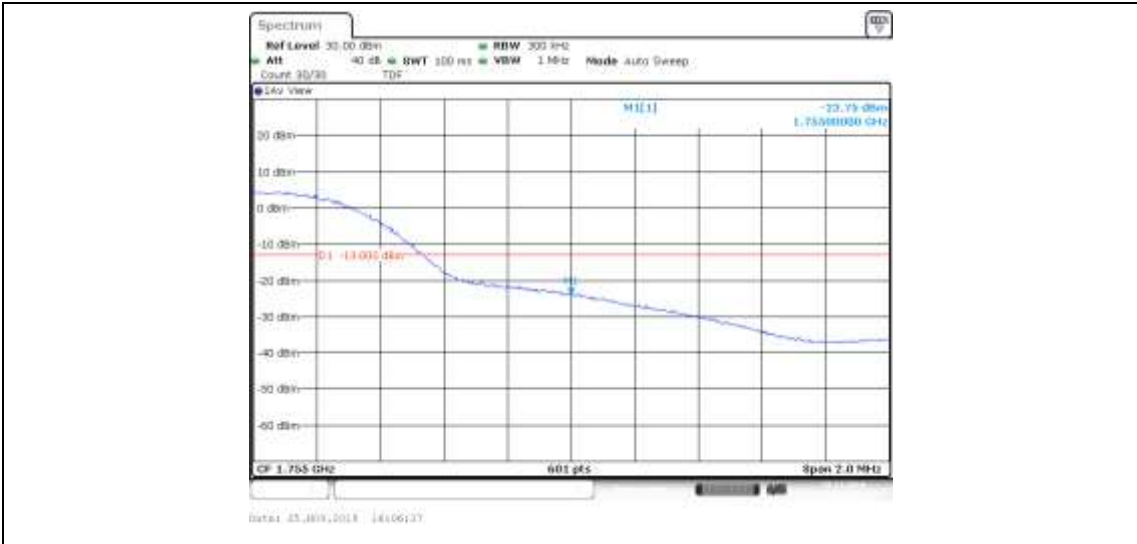
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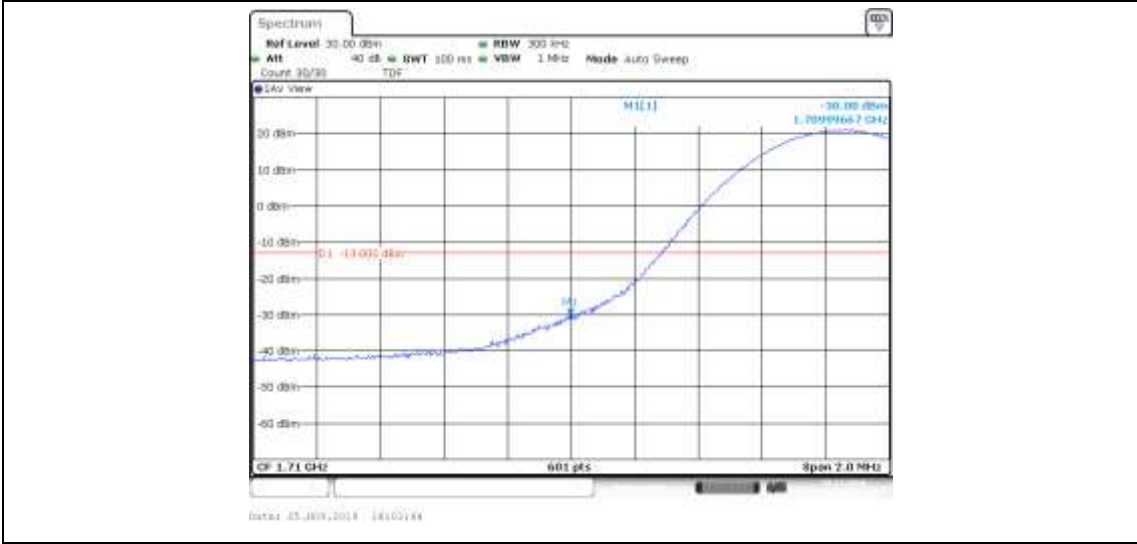
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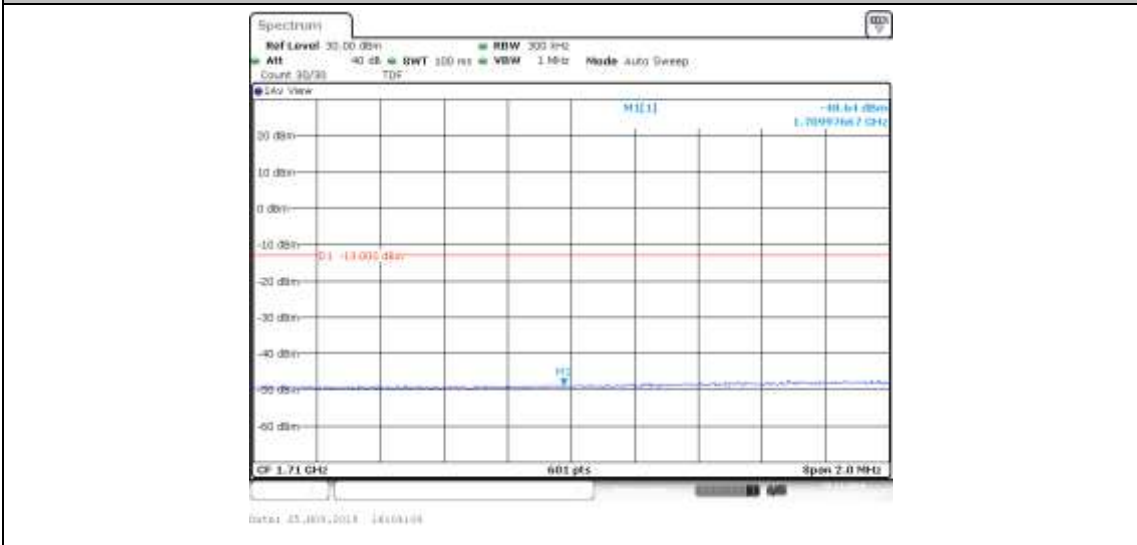
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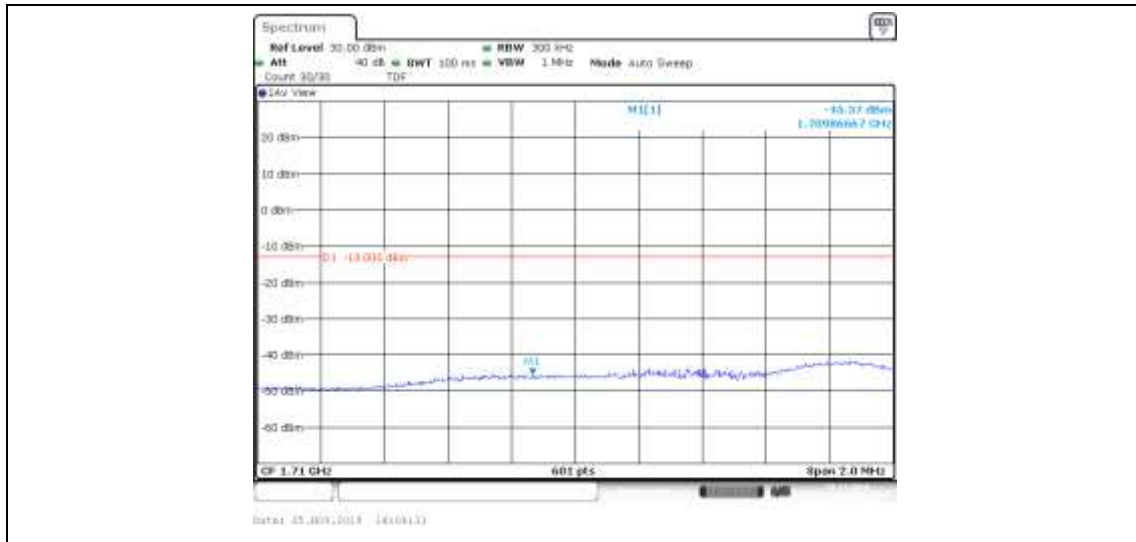
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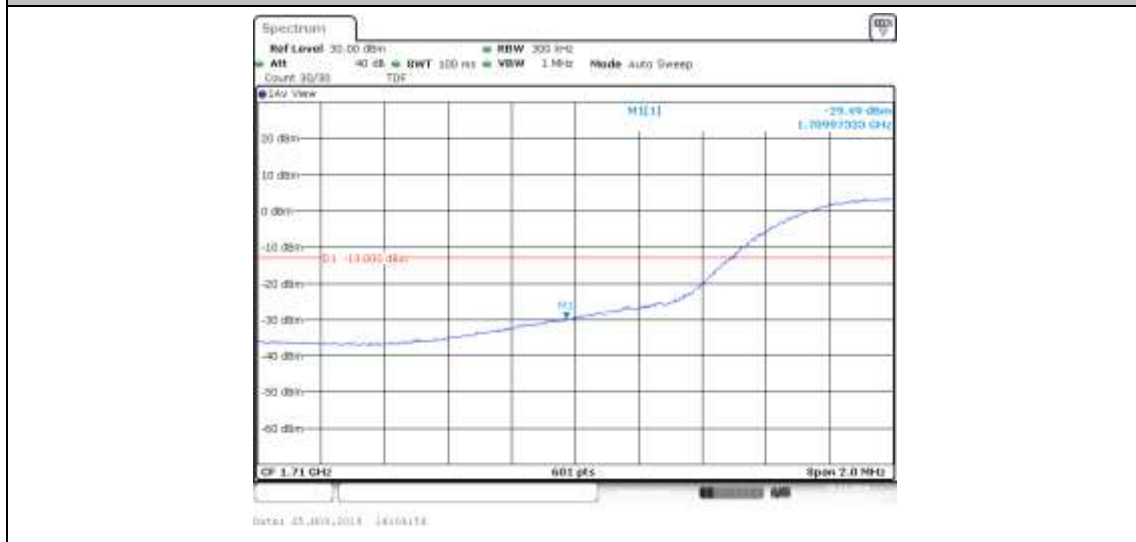
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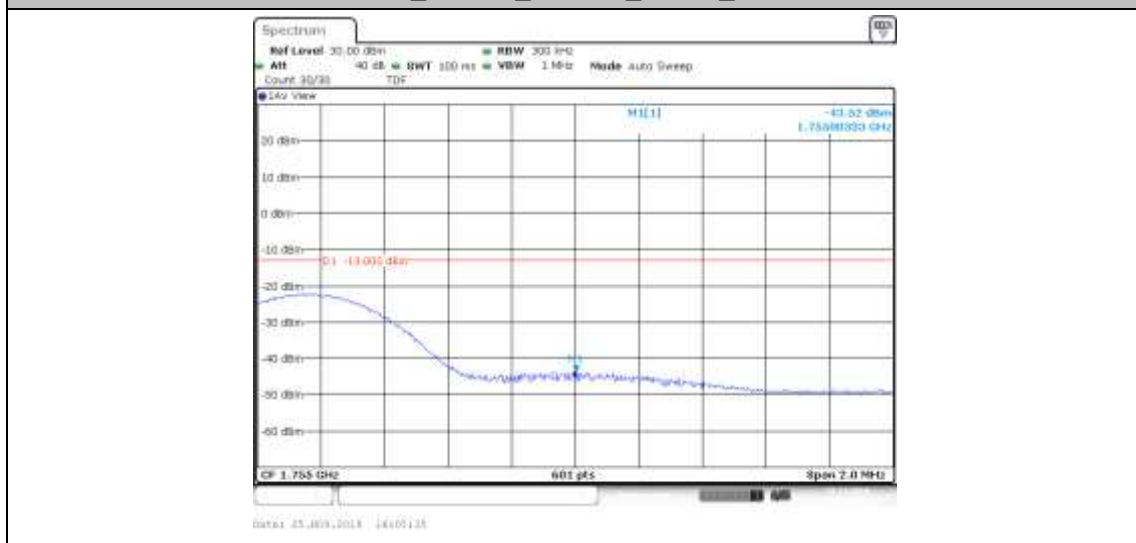
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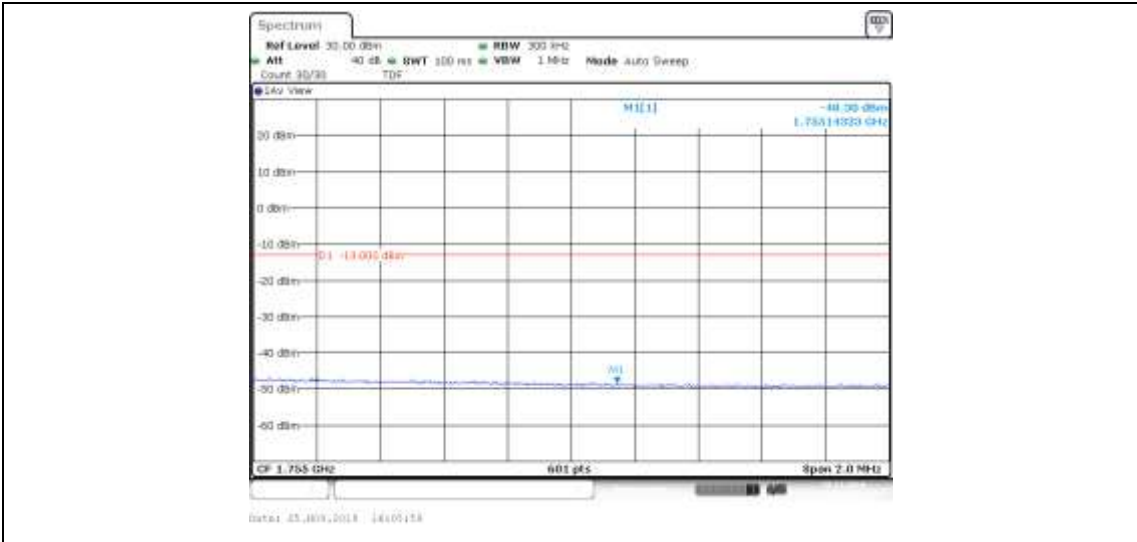
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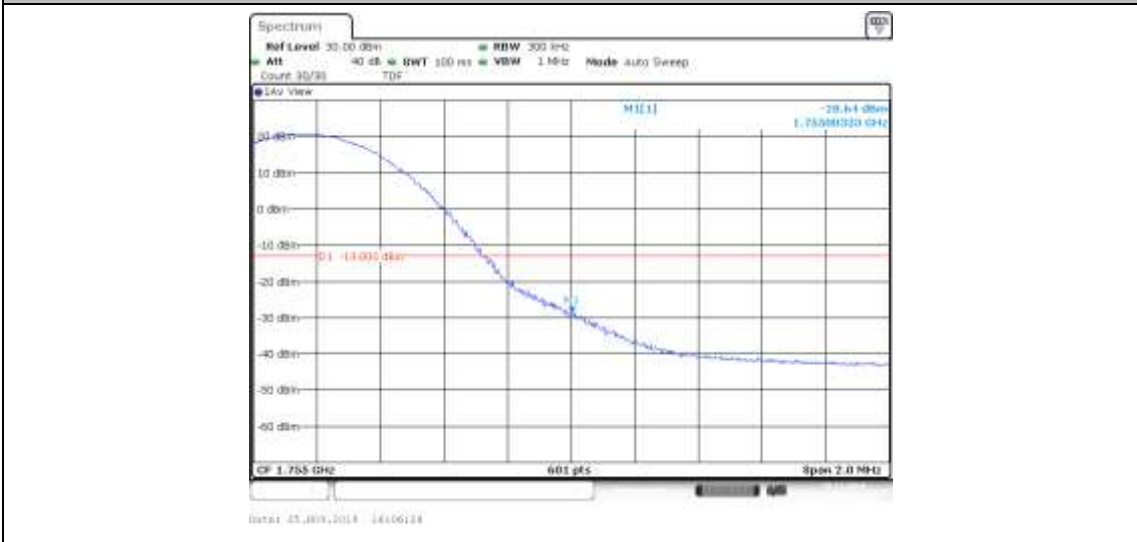
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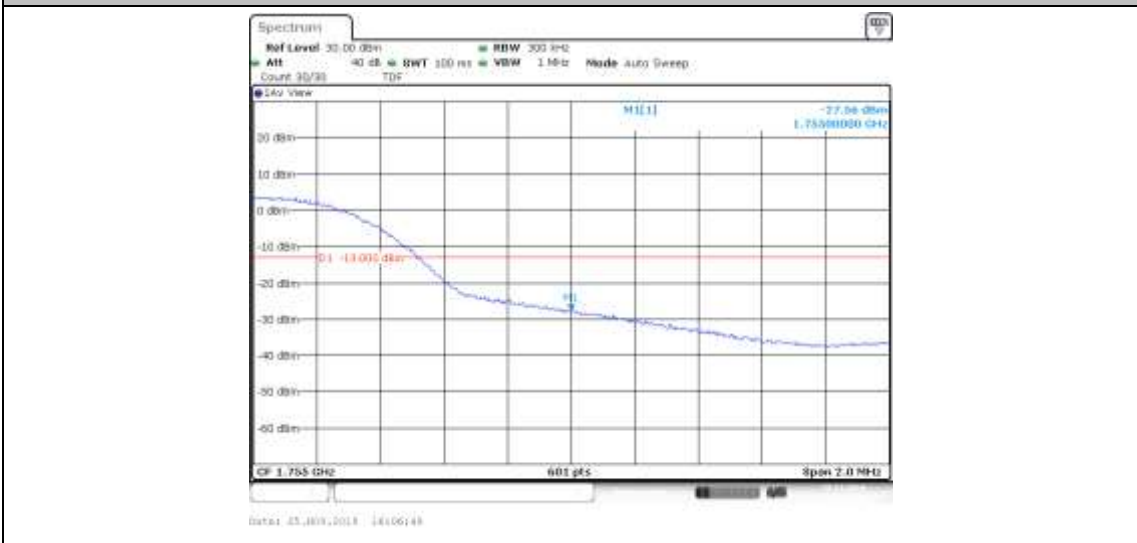
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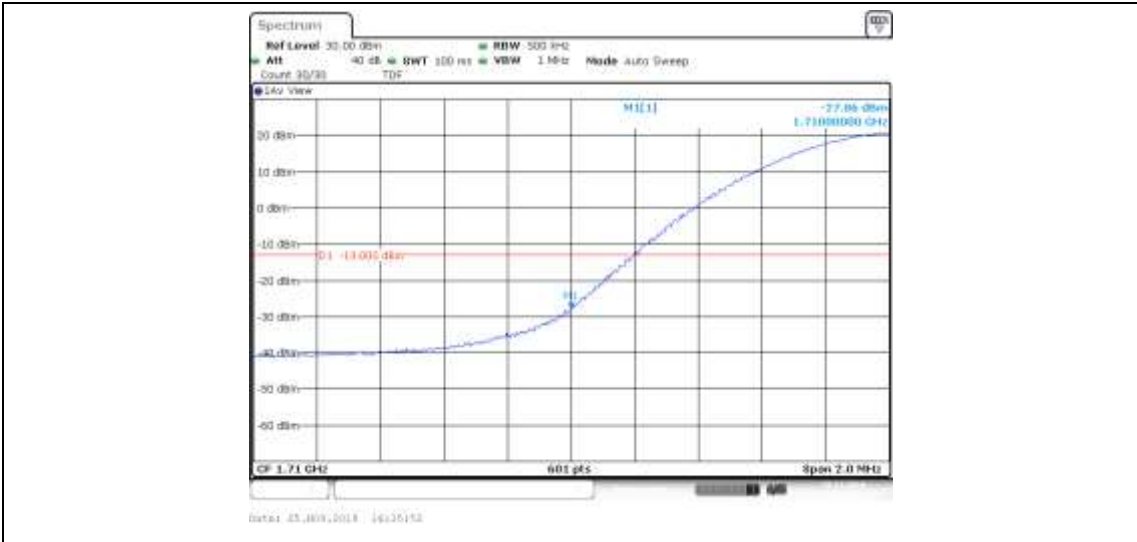
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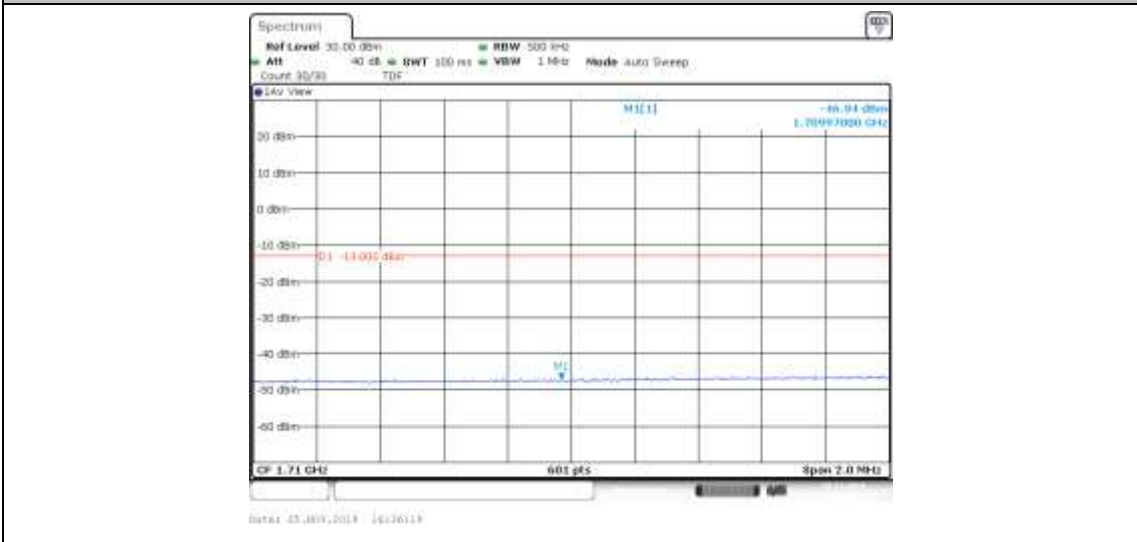
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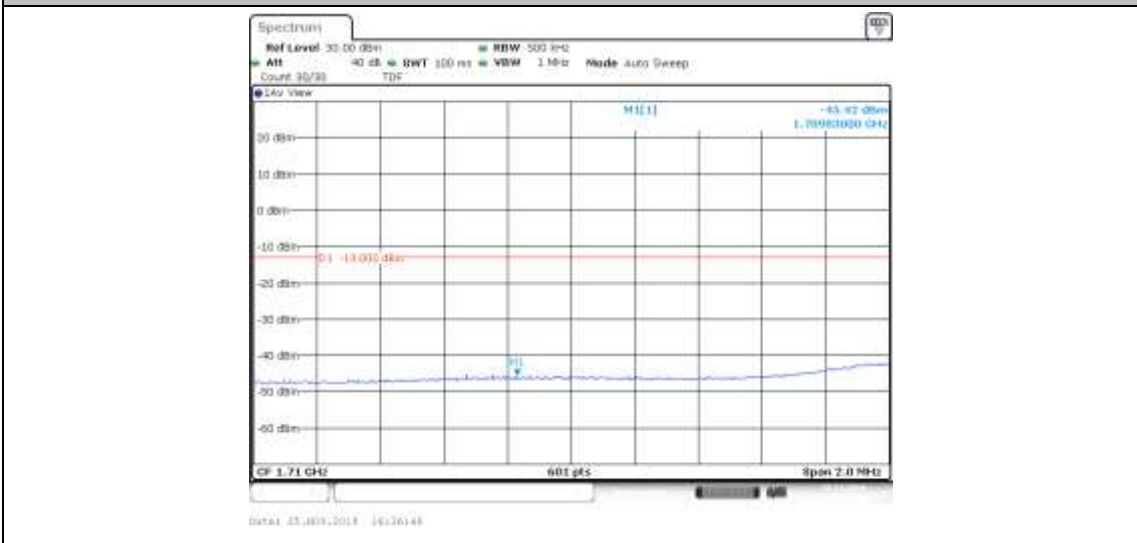
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Band4_20MHz_QPSK_20050_1RB#49



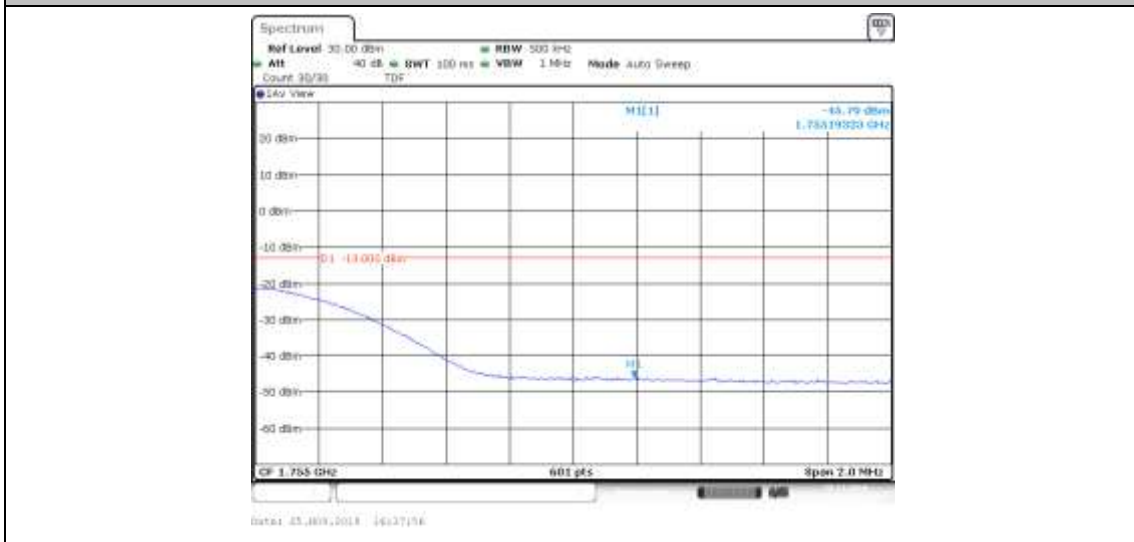
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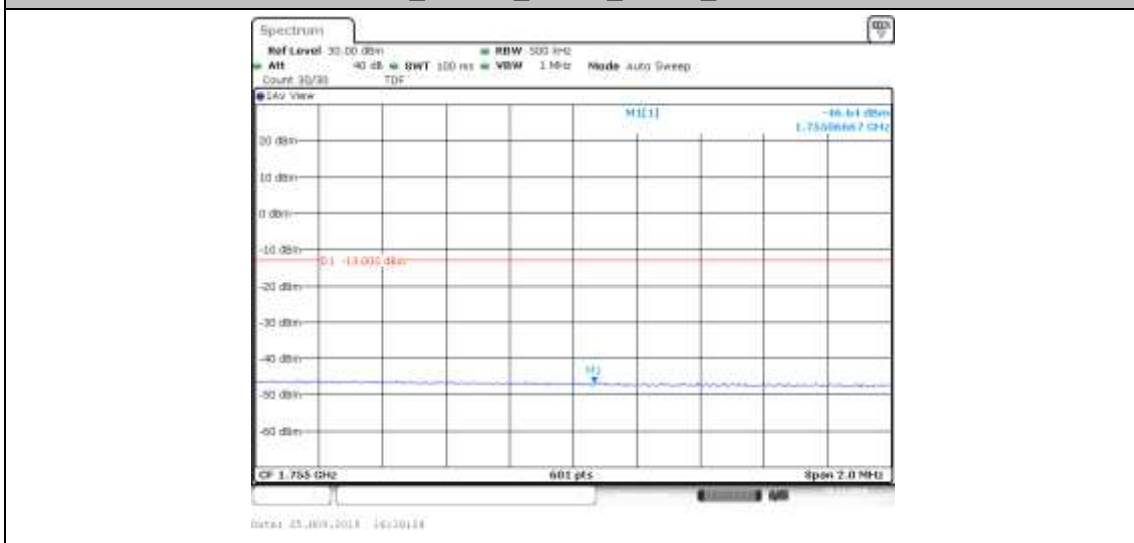
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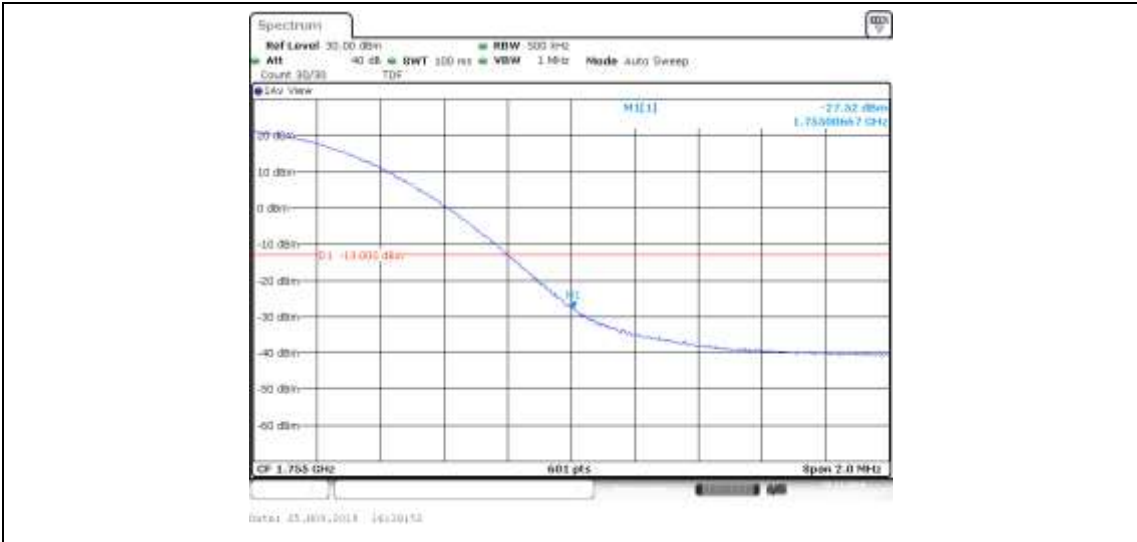


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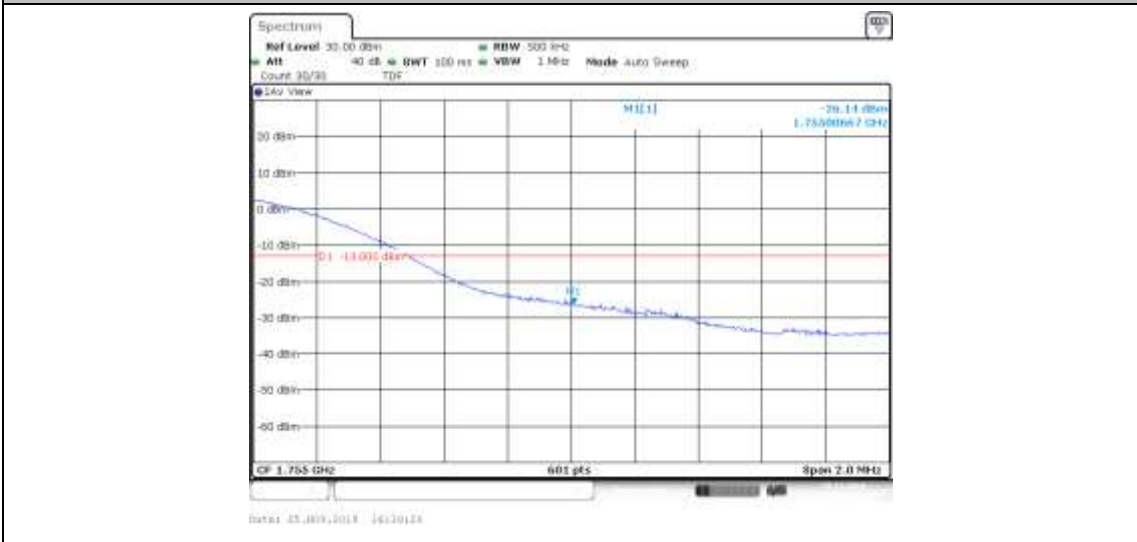
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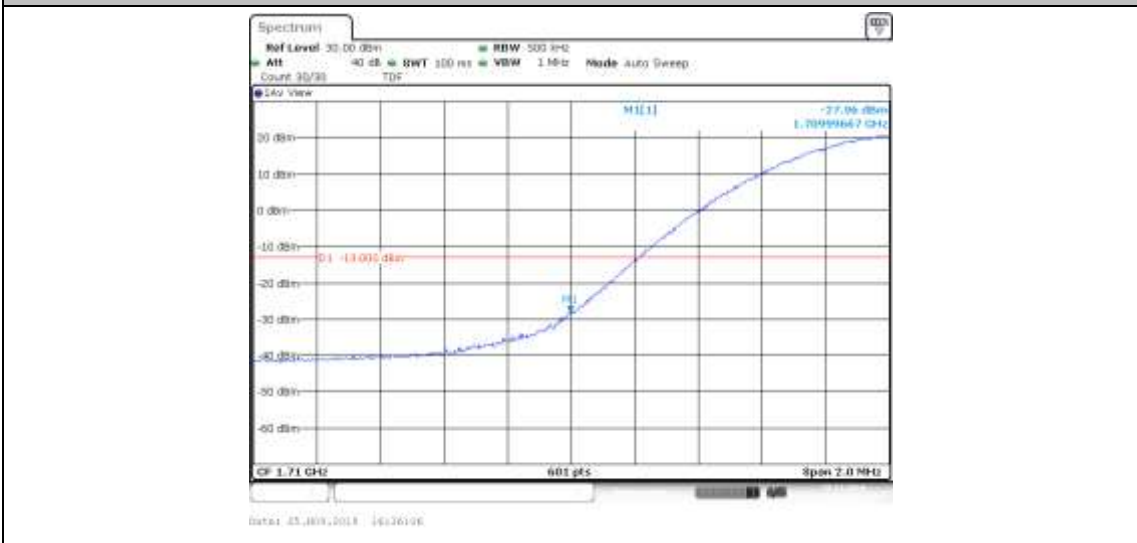
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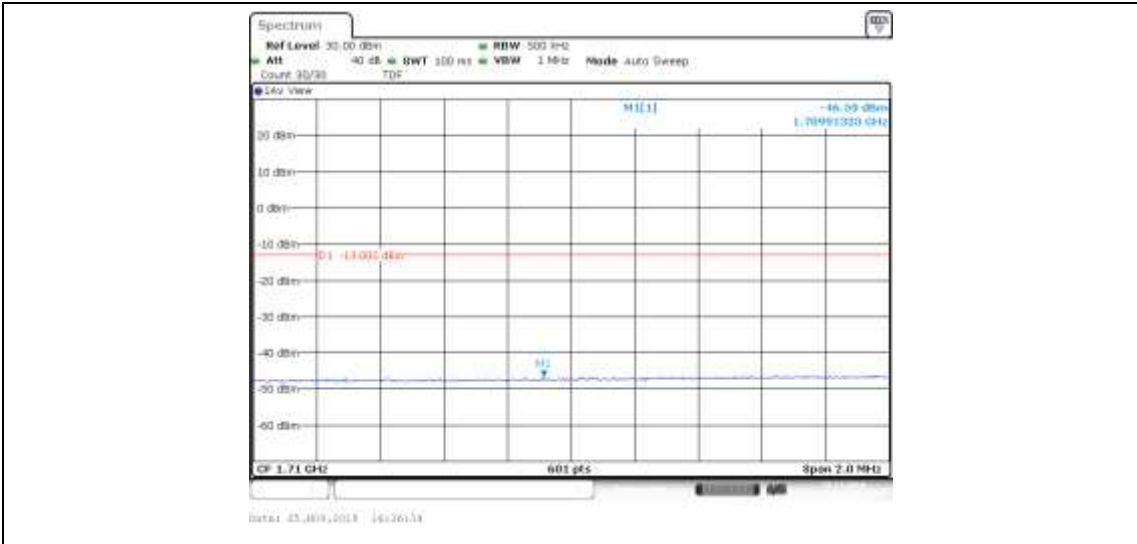
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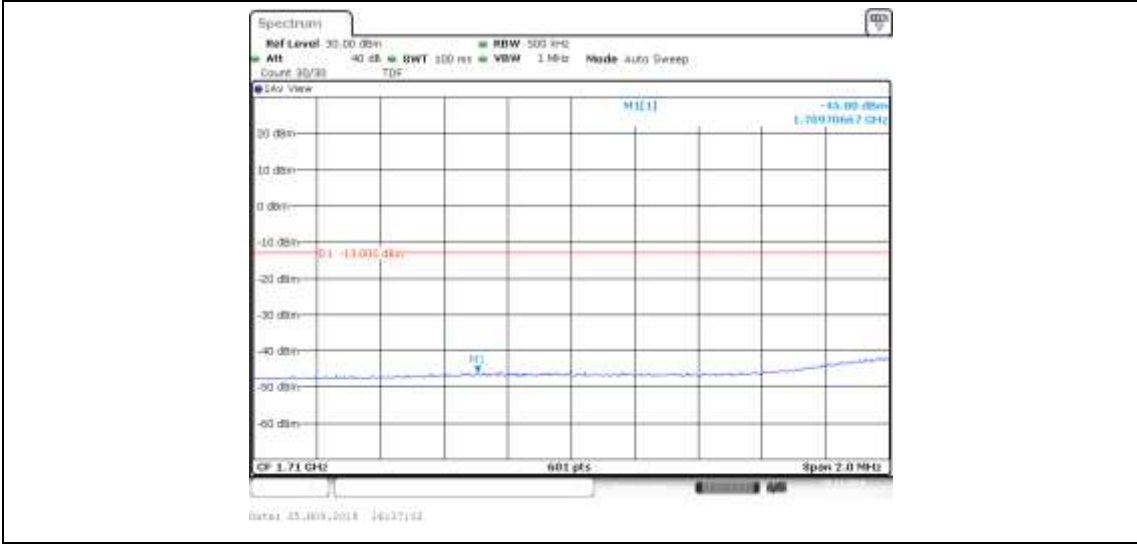
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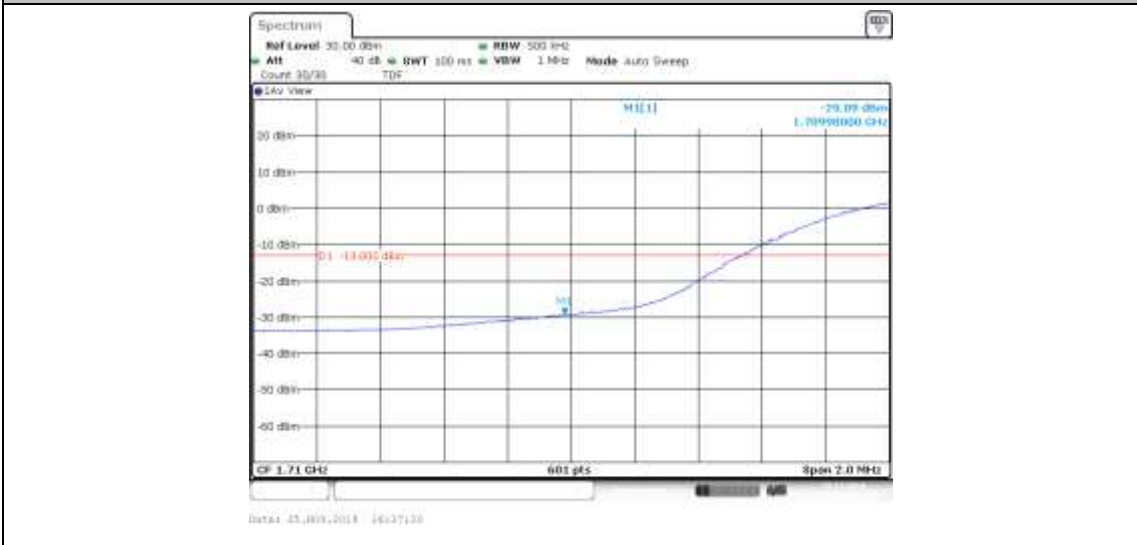
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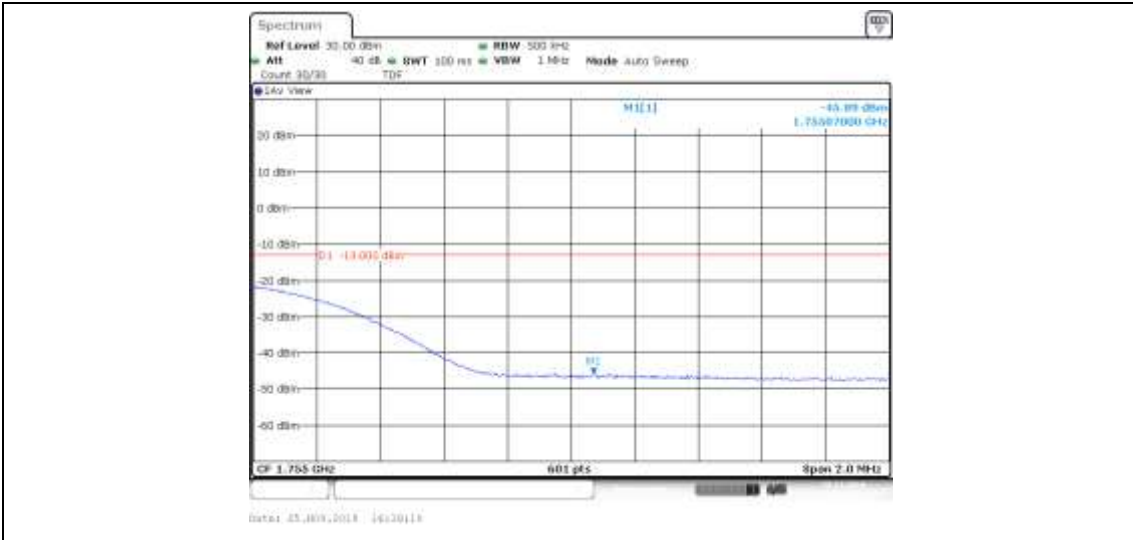
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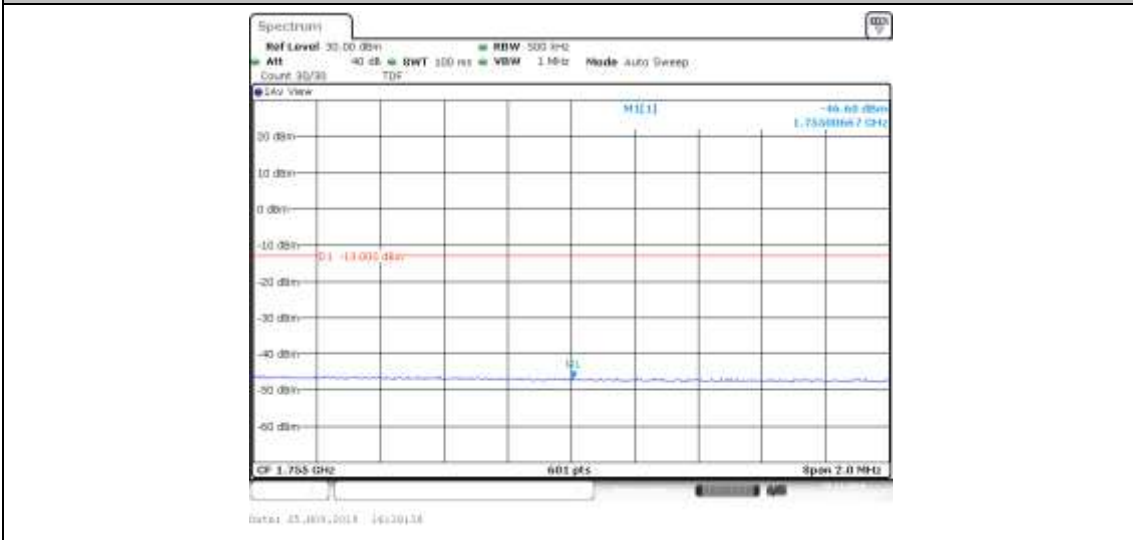
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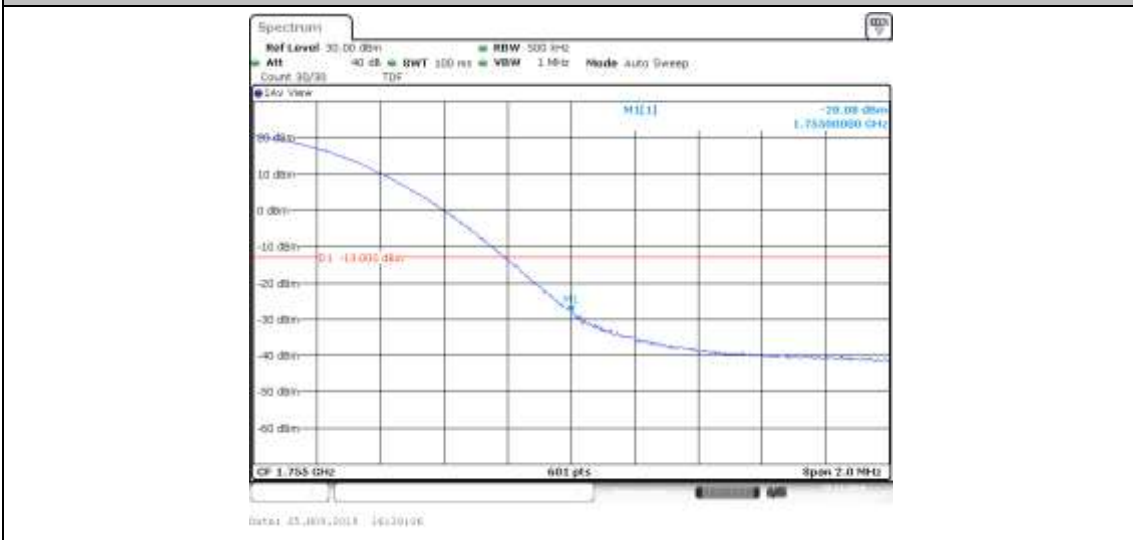
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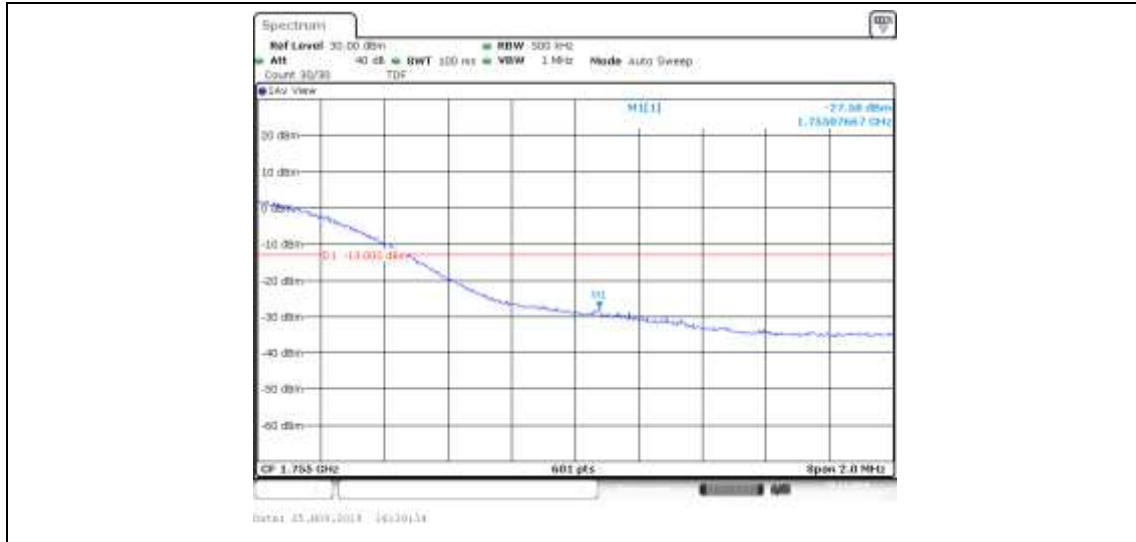
Band4_20MHz_16QAM_20300_1RB#49



Band4_20MHz_16QAM_20300_1RB#99



Band4_20MHz_16QAM_20300_100RB#0



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