



Appendix E: Test Data for E-UTRA Band 12

Product Name: 4G module

Test Model: TM18NA

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Eason Zhou
Supervised by:	Nick Peng



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E.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.38	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.97	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.64	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.93	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.43	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.99	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.63	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.66	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.58	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.66	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.71	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.61	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.82	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.86	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.55	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.31	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.53	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.35	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.58	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.36	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.54	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.80	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.52	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.80	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.56	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.83	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.92	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.01	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.56	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.11	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.44	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.17	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.54	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.64	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.60	PASS



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Band12	1.4MHz	16QAM	23173	3RB#0	22.85	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.60	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.85	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.61	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.48	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.72	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.89	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.20	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.27	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.56	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.35	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.26	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.41	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.52	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.92	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.53	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.92	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.51	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.86	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.73	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.75	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.51	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.26	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.47	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.58	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.55	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.60	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.42	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.79	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.43	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.80	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.50	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.02	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.55	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.54	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.37	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.95	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.40	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.25	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.23	PASS



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Band12	3MHz	16QAM	23165	1RB#14	23.23	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.41	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.84	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.42	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.85	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.53	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.62	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.43	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.66	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.47	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.17	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.41	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.96	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.56	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.00	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.51	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.71	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.56	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.72	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.31	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.61	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.33	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.74	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.19	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.75	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.17	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.68	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.19	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.79	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.27	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.66	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.31	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.63	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.52	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.72	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.49	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.75	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.18	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.27	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.16	PASS



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Band12	5MHz	16QAM	23155	1RB#12	22.24	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.48	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.41	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.51	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.57	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.51	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.57	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.42	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.53	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.41	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.64	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.20	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.28	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.23	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.58	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.13	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.57	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.27	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.58	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.62	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.58	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.37	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.54	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.52	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.69	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.55	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.49	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.54	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.58	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.38	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.91	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.62	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.75	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.60	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.75	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.39	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.79	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.50	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.74	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.09	PASS



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Band12	10MHz	16QAM	23130	1RB#0	23.26	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.21	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.15	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.07	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.14	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.38	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.61	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.39	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.60	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.46	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.48	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.65	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.84	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.27	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.39	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.14	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.75	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.18	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.37	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.09	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	4.34	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.95	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.95	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.61	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.94	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.78	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.43	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.19	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.88	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.69	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.41	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.16	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	4.64	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	5.44	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	5.10	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.83	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	5.00	13	PASS
Band12	5MHz	16QAM	23035	1RB#0	5.72	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.56	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.18	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.90	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.68	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.53	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.15	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.87	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	5.62	13	PASS



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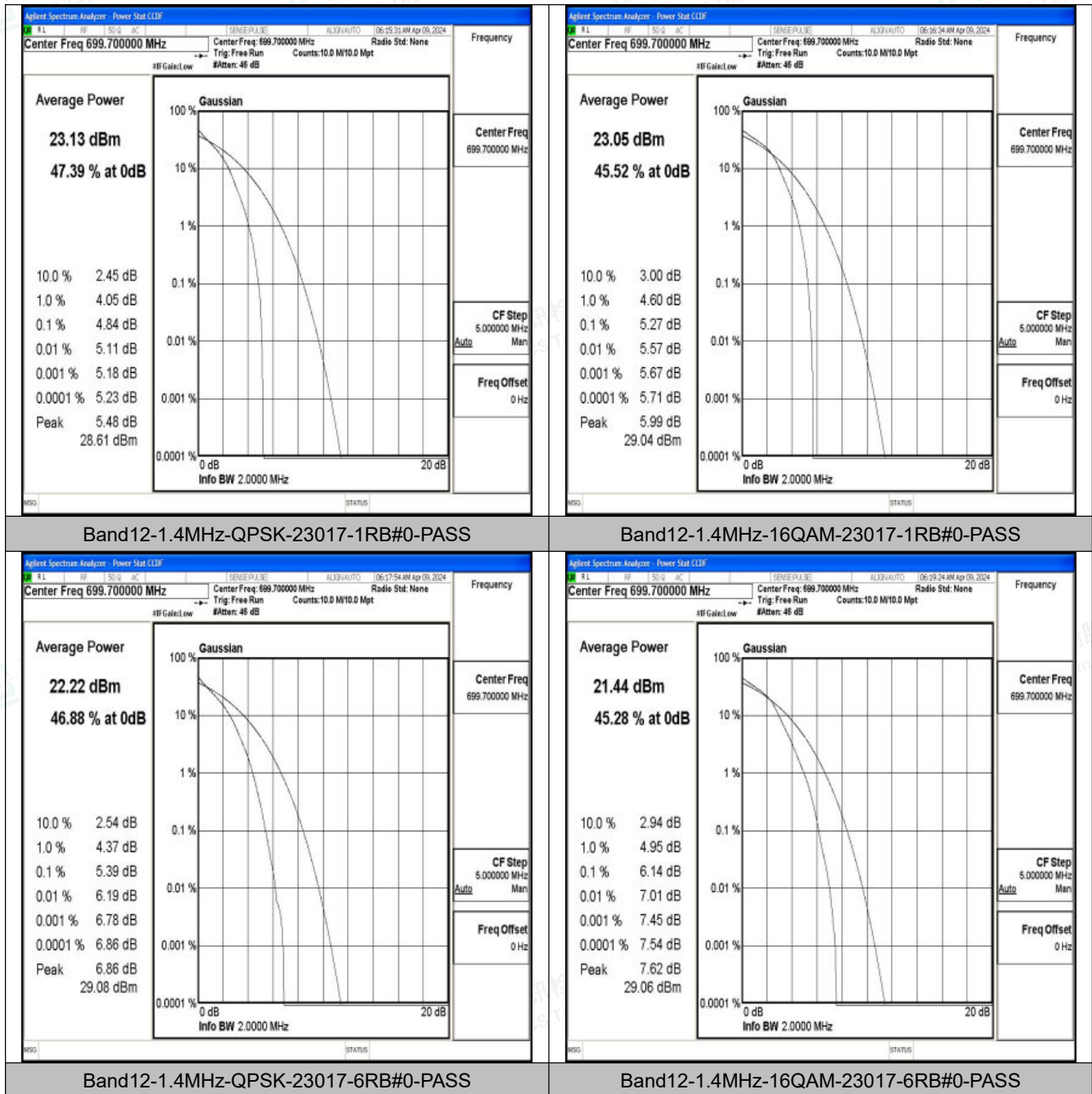


Band12	5MHz	QPSK	23155	25RB#0	5.34	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.99	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.93	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.51	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.20	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.94	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.78	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.54	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.87	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.58	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.46	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.13	13	PASS





Test Graphs

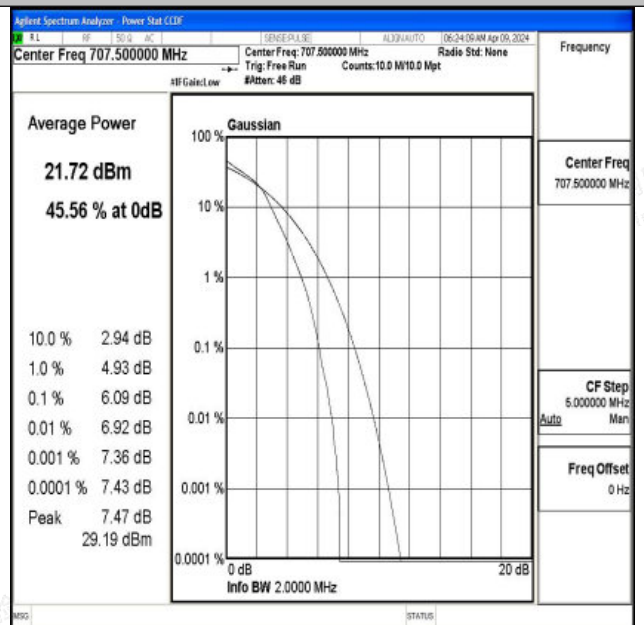
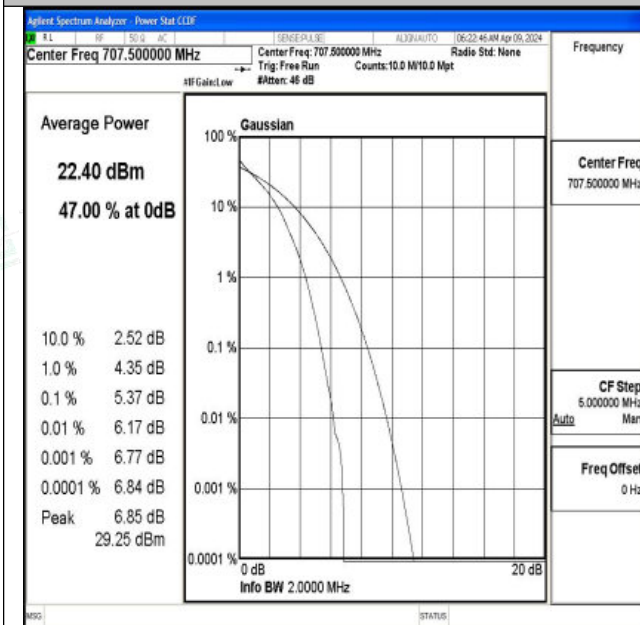
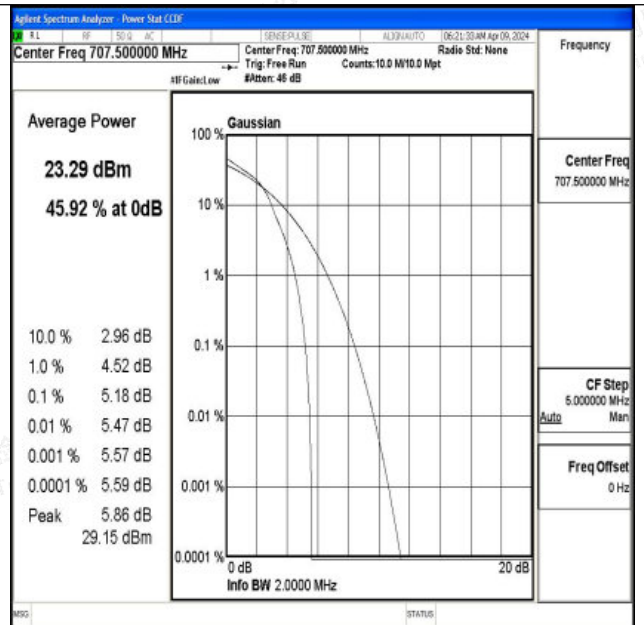
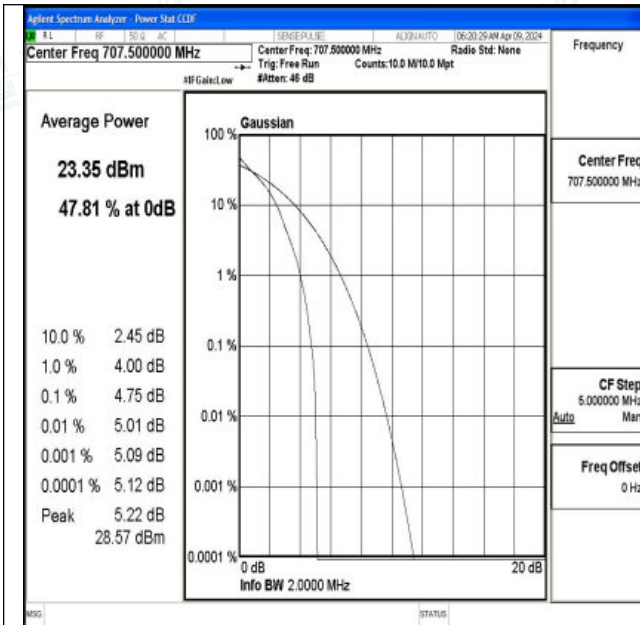


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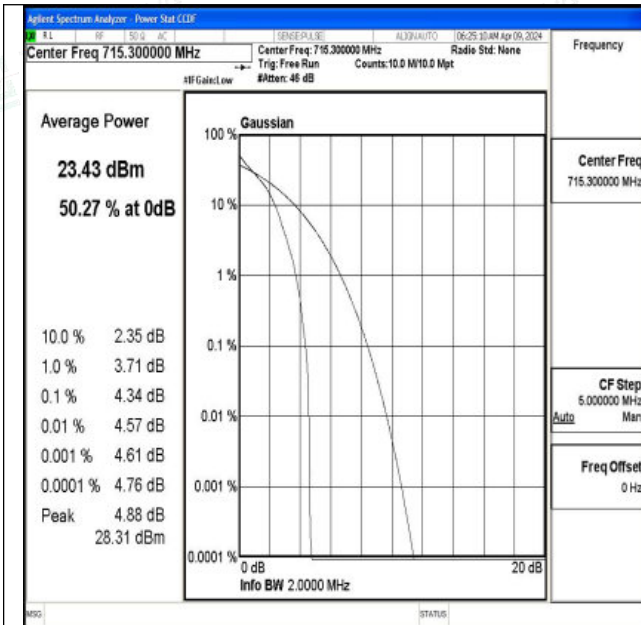


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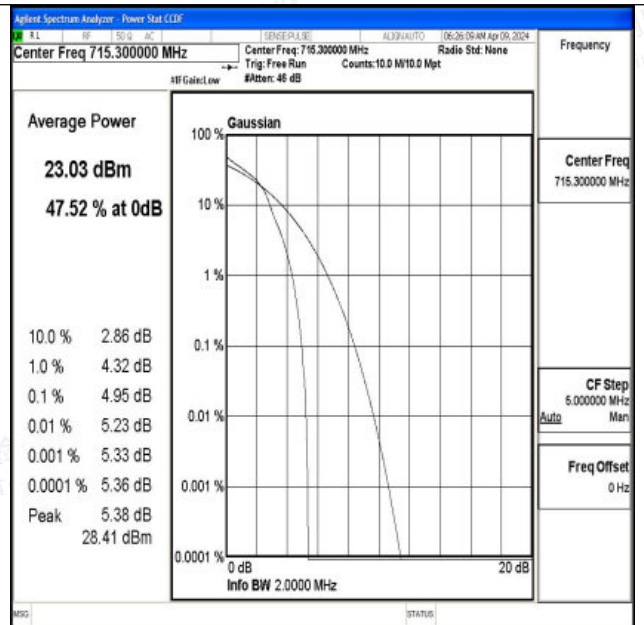
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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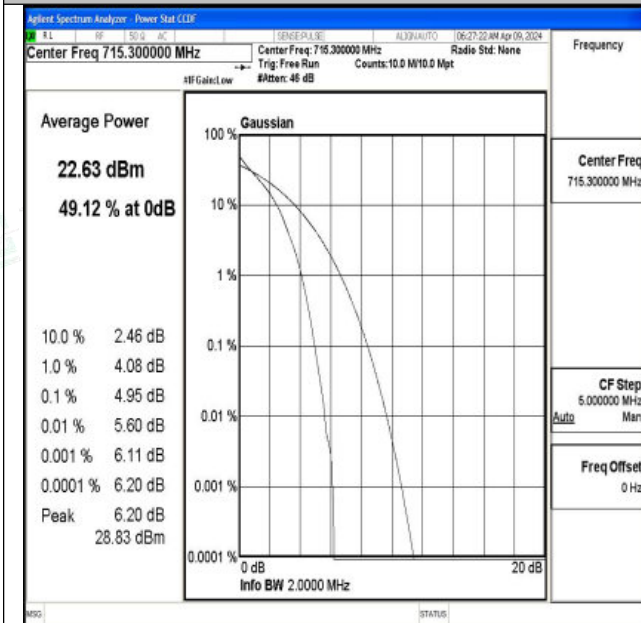
Scan code to check authenticity



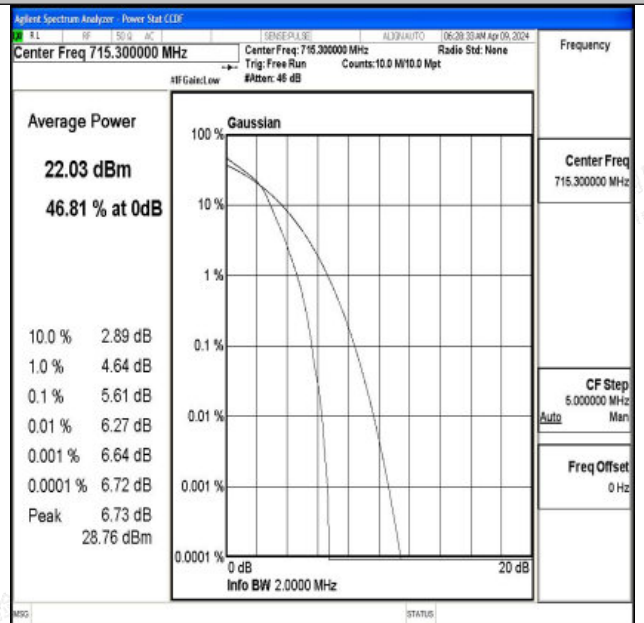
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Band12-1.4MHz-16QAM-23173-1RB#0-PASS



Band12-1.4MHz-QPSK-23173-6RB#0-PASS



Band12-1.4MHz-16QAM-23173-6RB#0-PASS

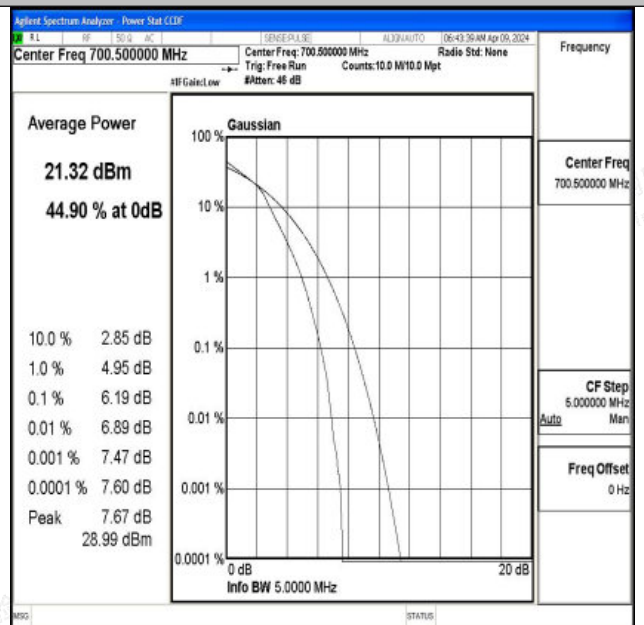
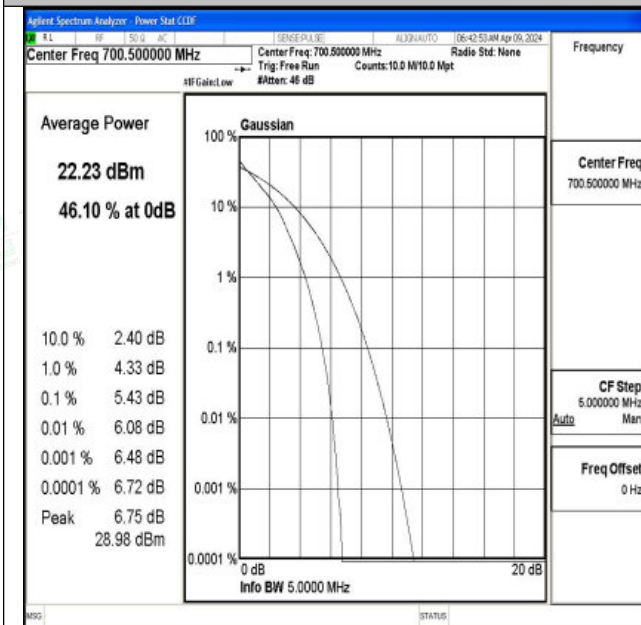
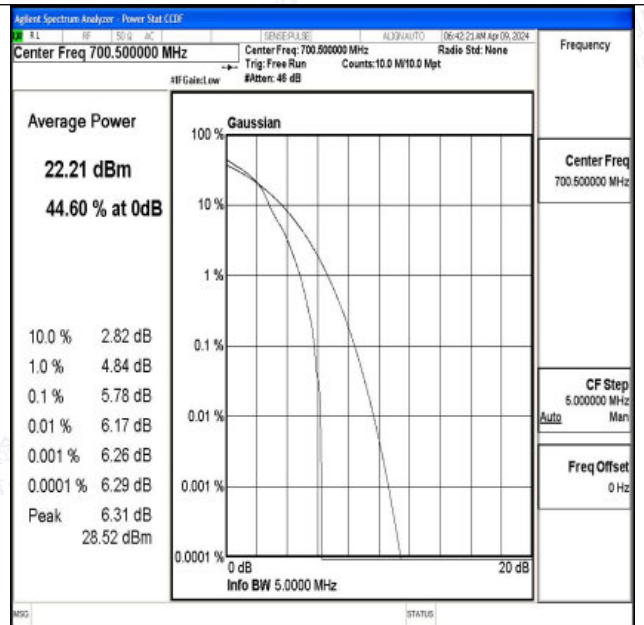
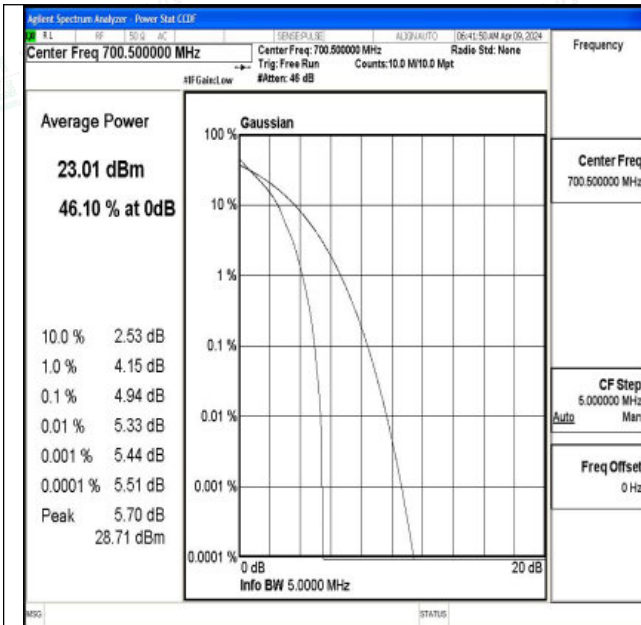


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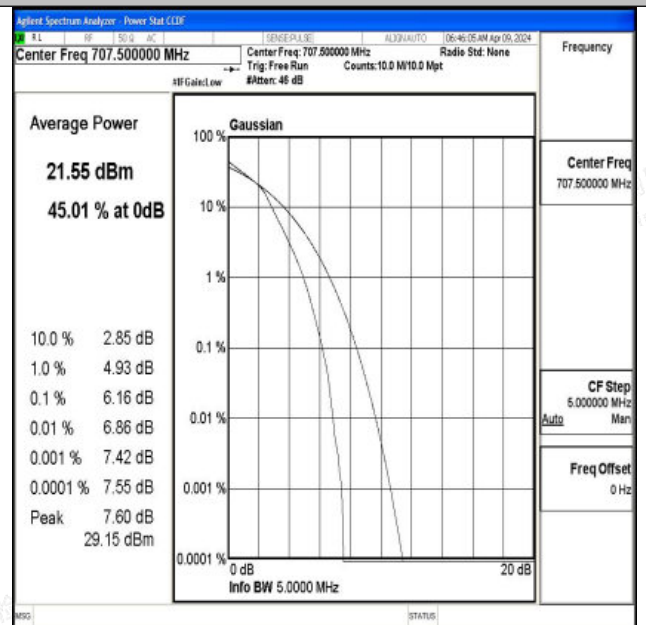
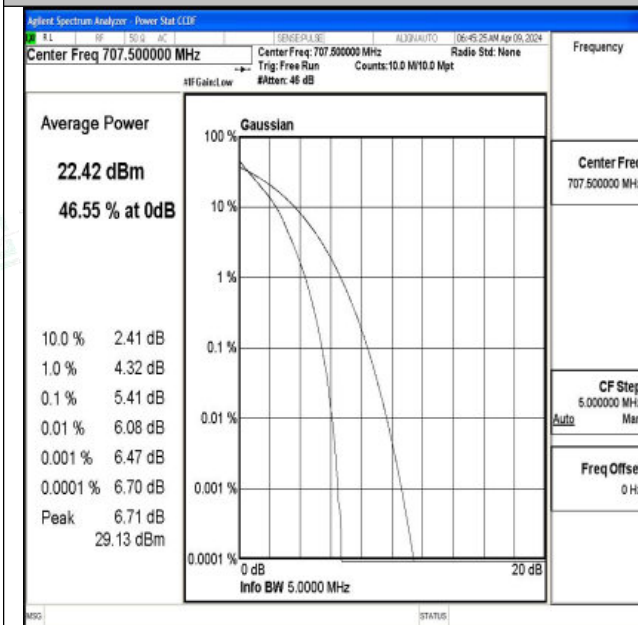
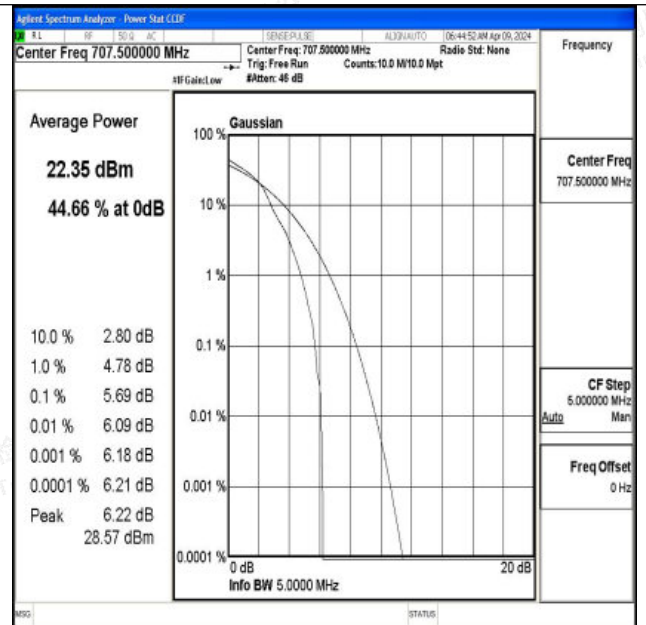
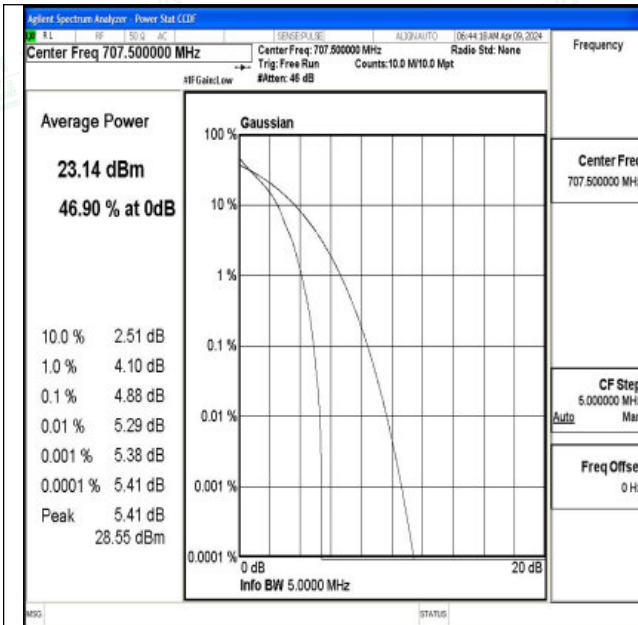


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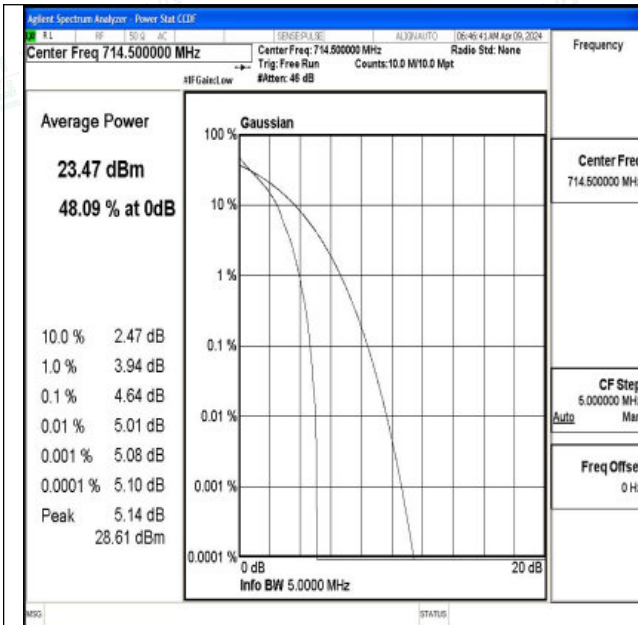


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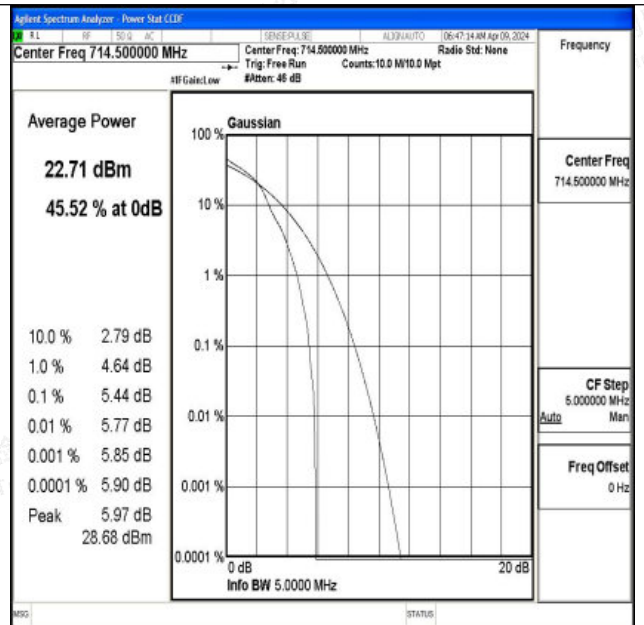
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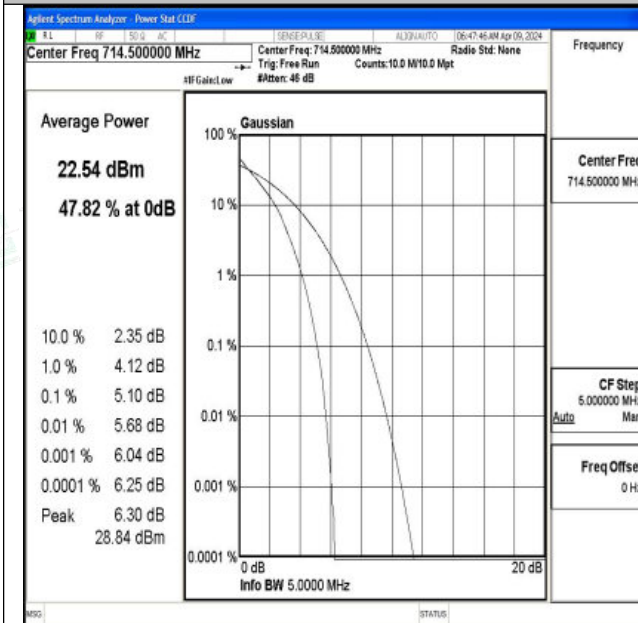
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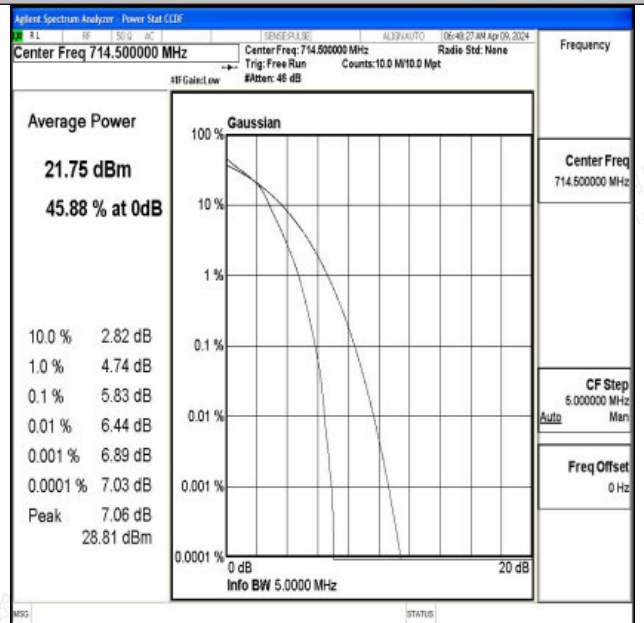
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Band12-3MHz-16QAM-23165-1RB#0-PASS



Band12-3MHz-QPSK-23165-15RB#0-PASS



Band12-3MHz-16QAM-23165-15RB#0-PASS

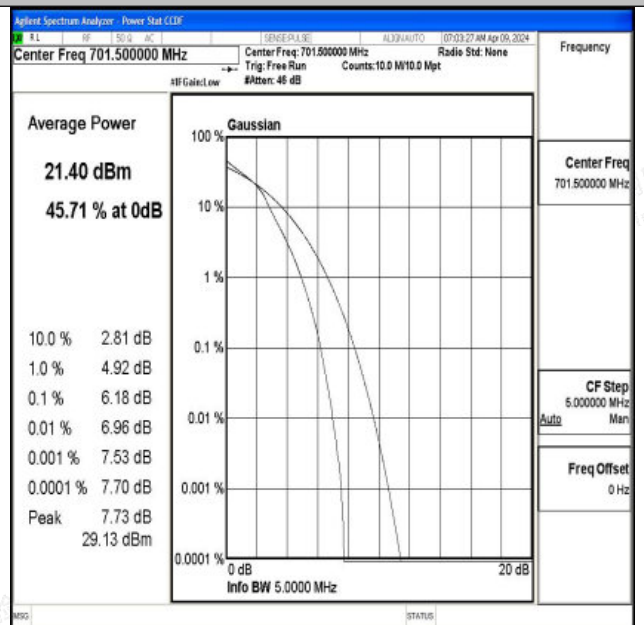
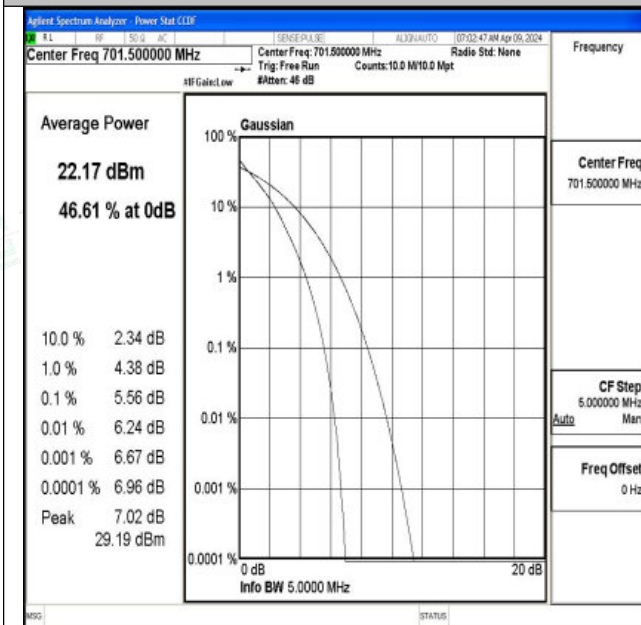
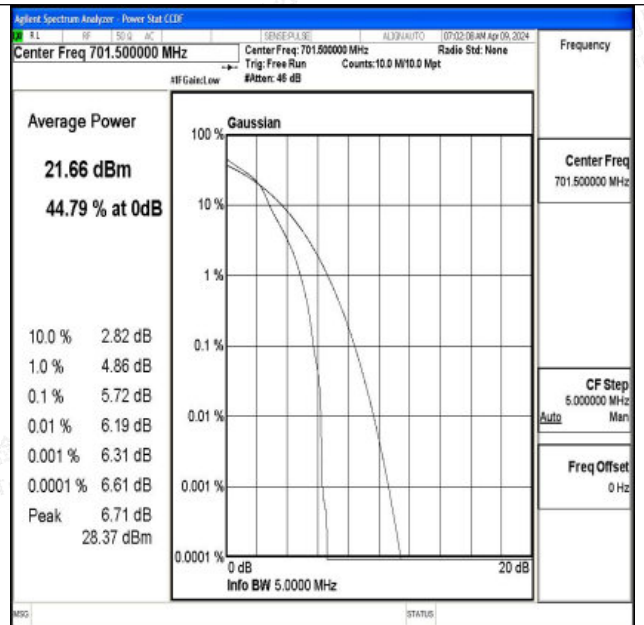
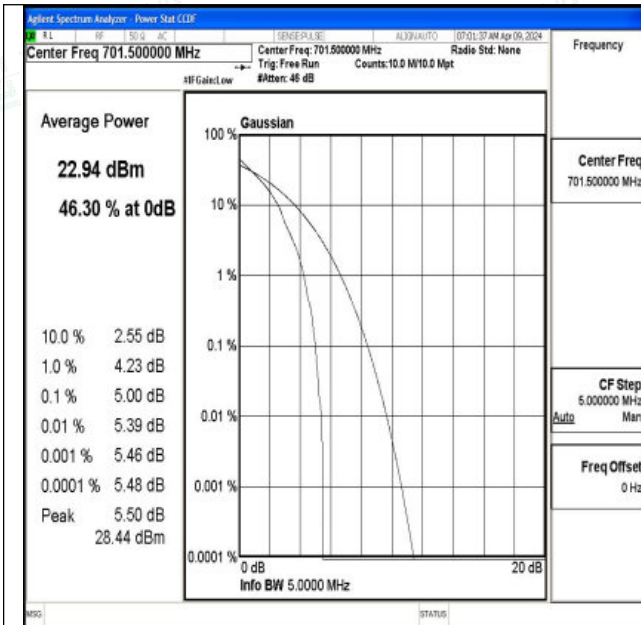


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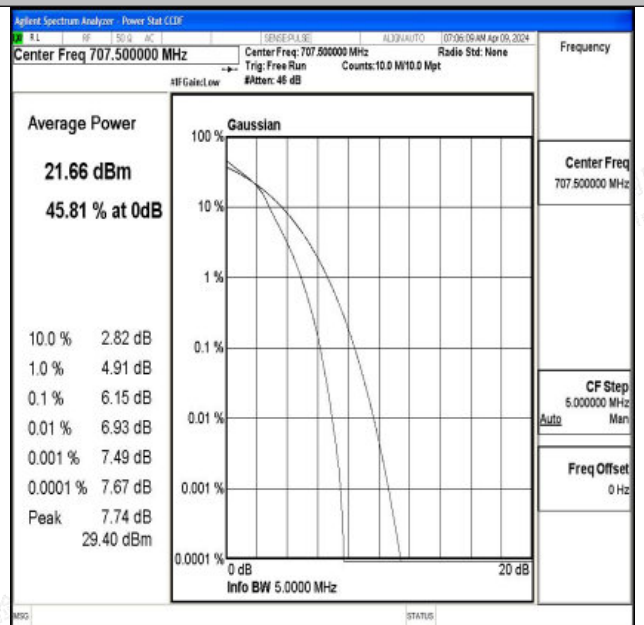
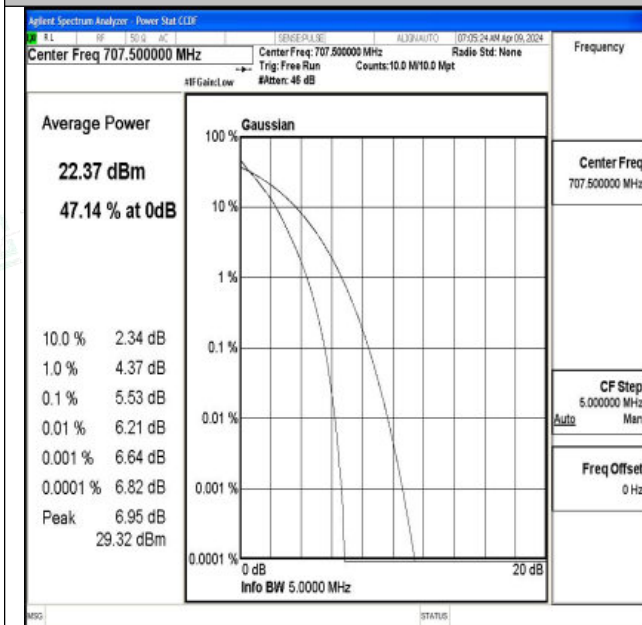
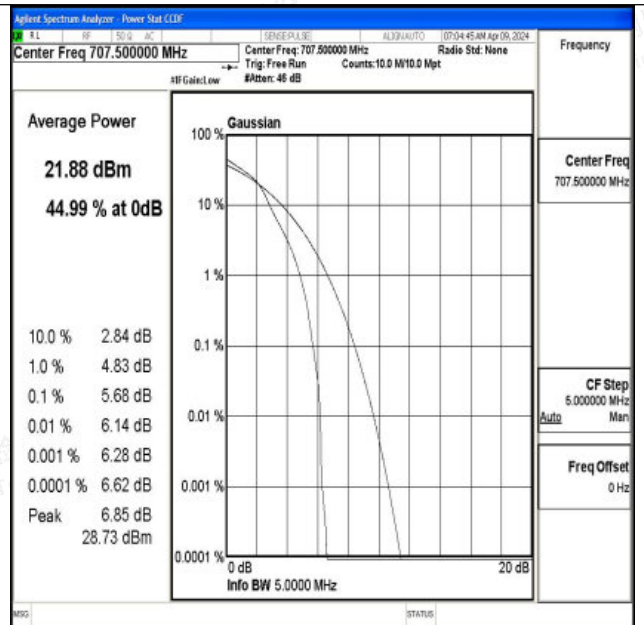
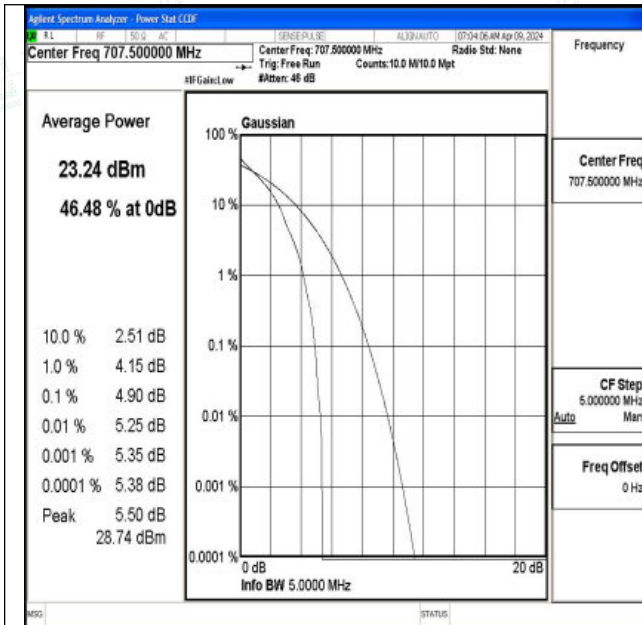


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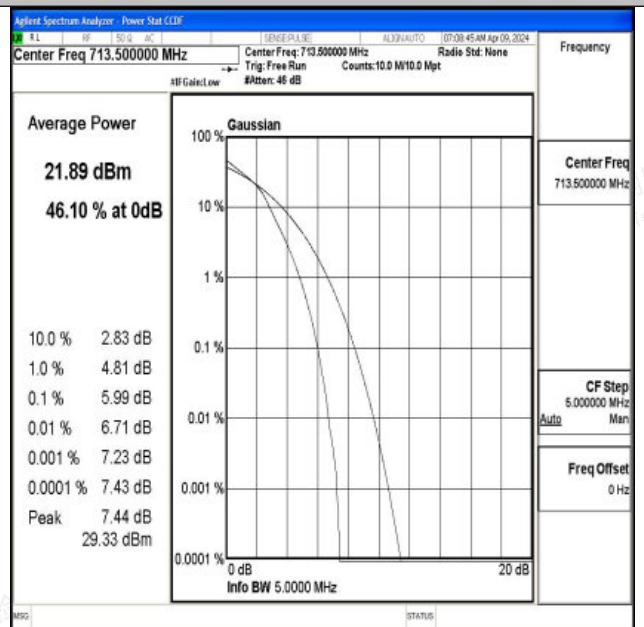
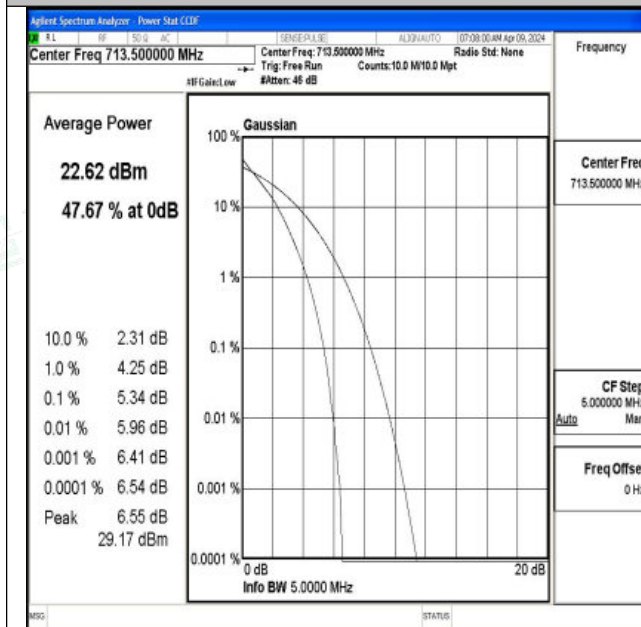
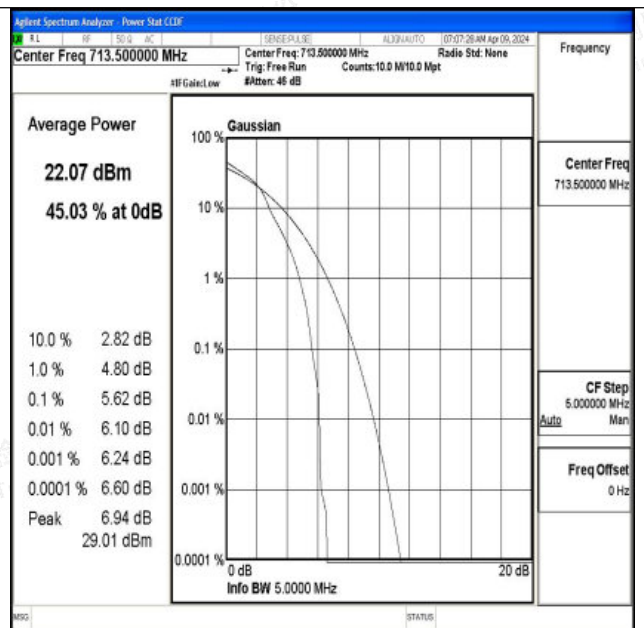
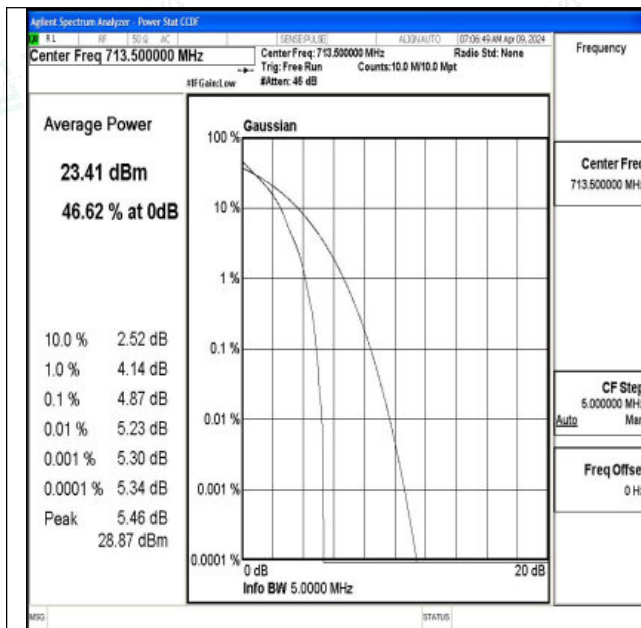


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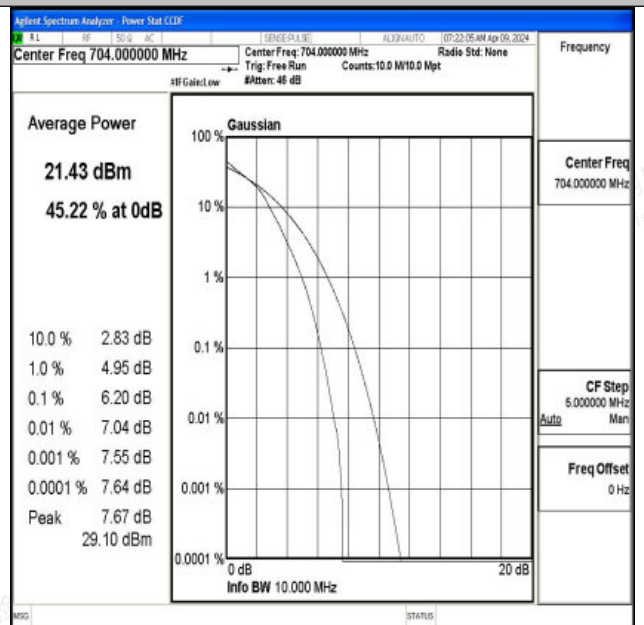
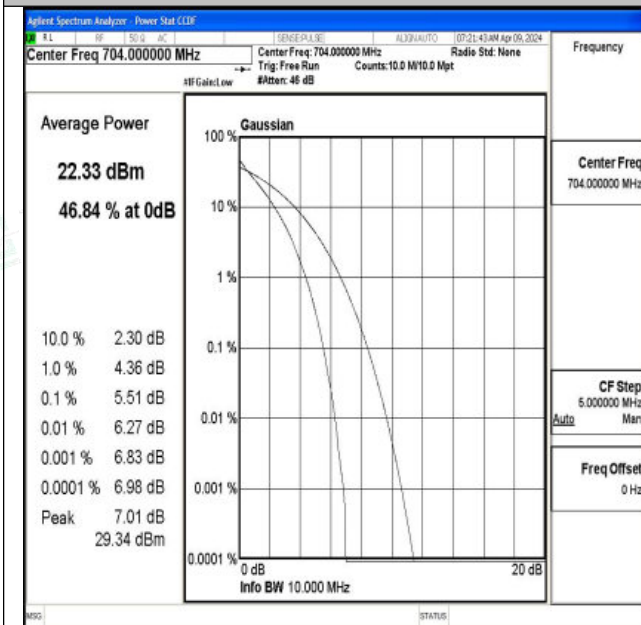
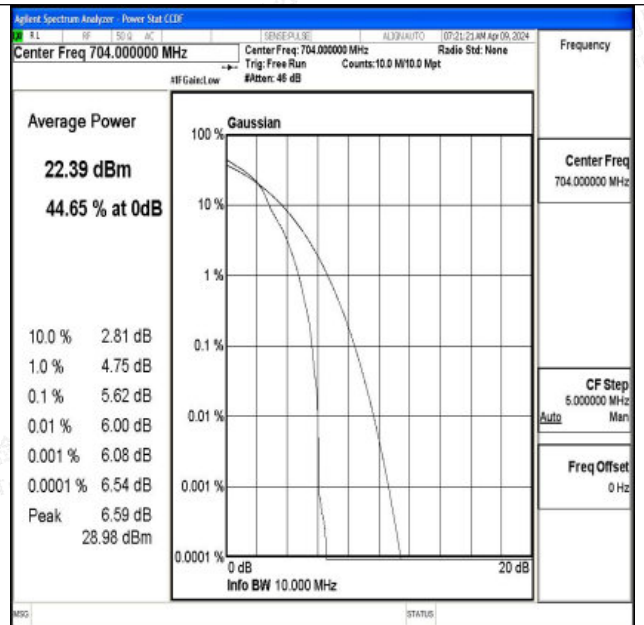
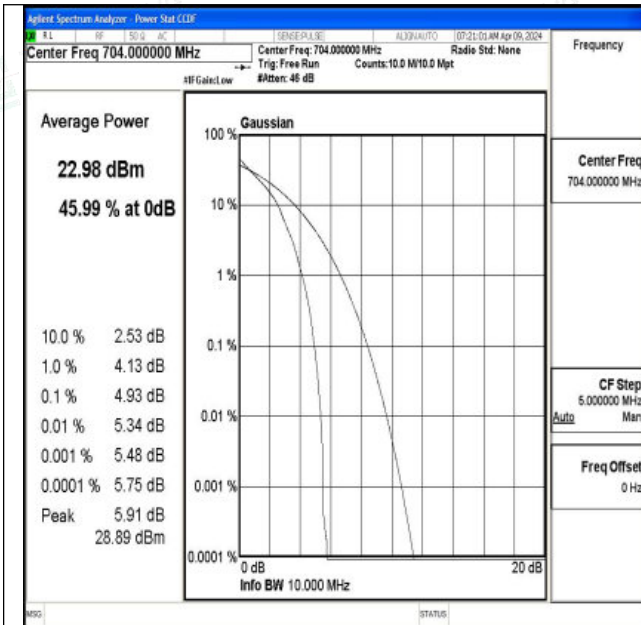


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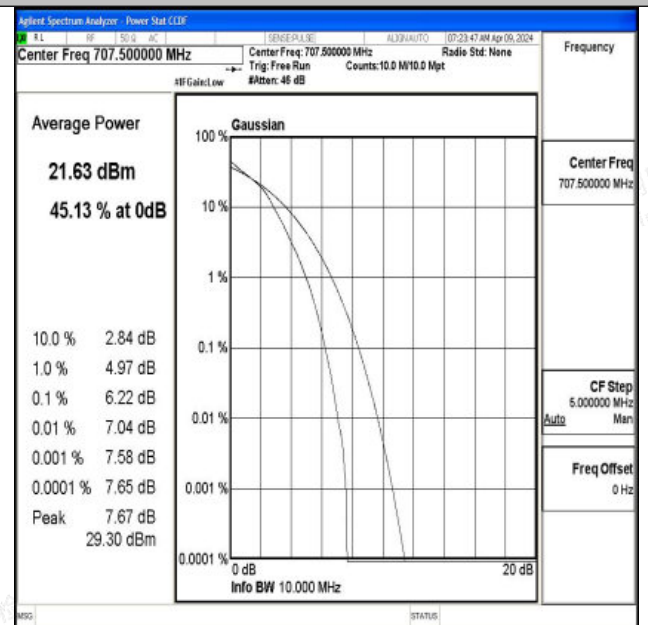
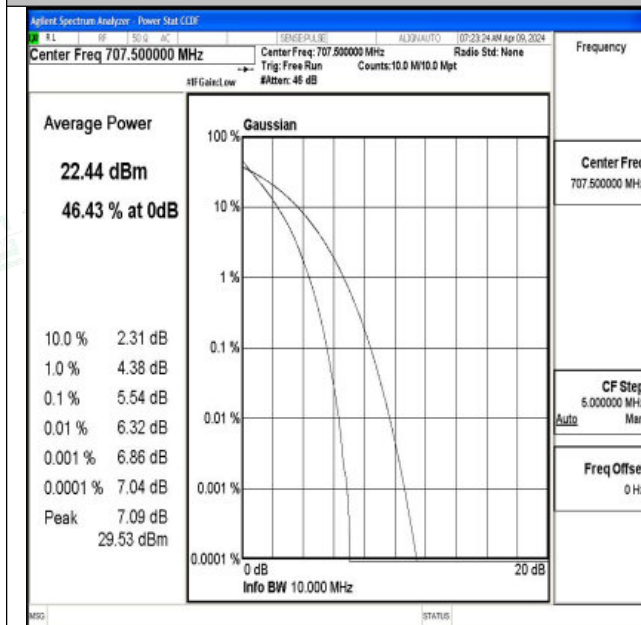
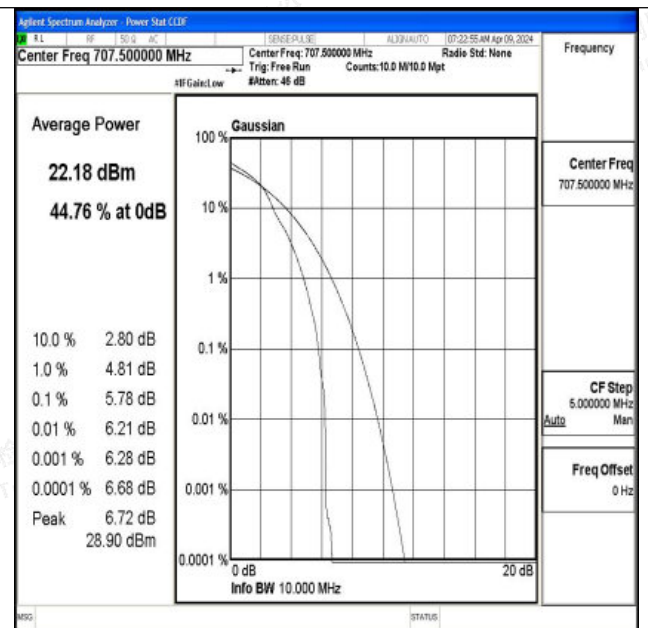
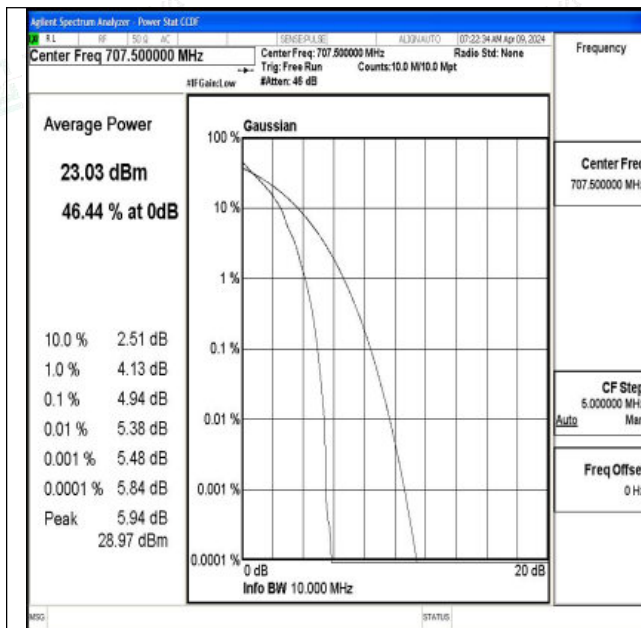


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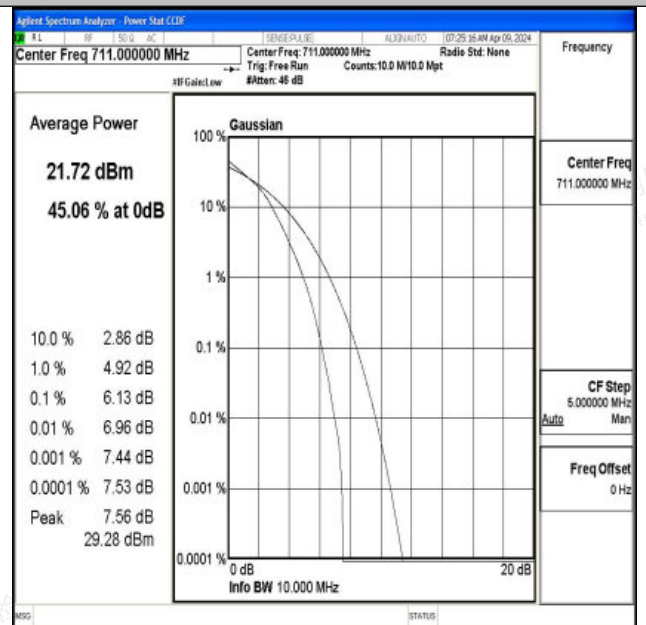
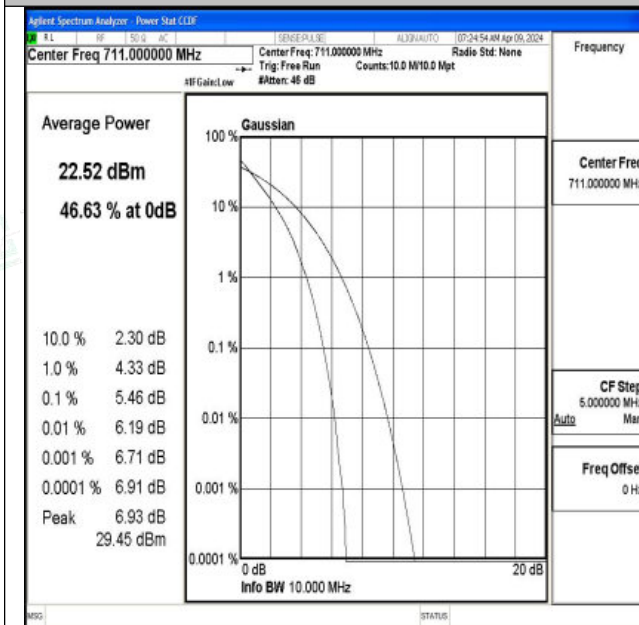
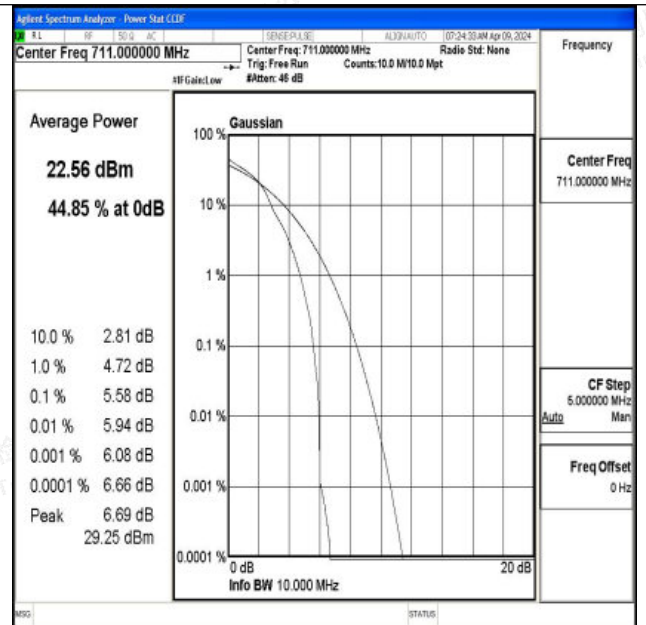
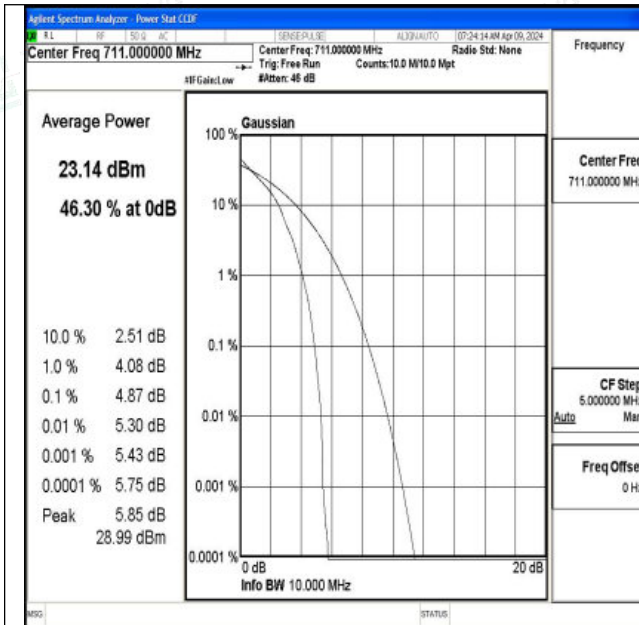


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E.3 26dB Bandwidth and Occupied Bandwidth

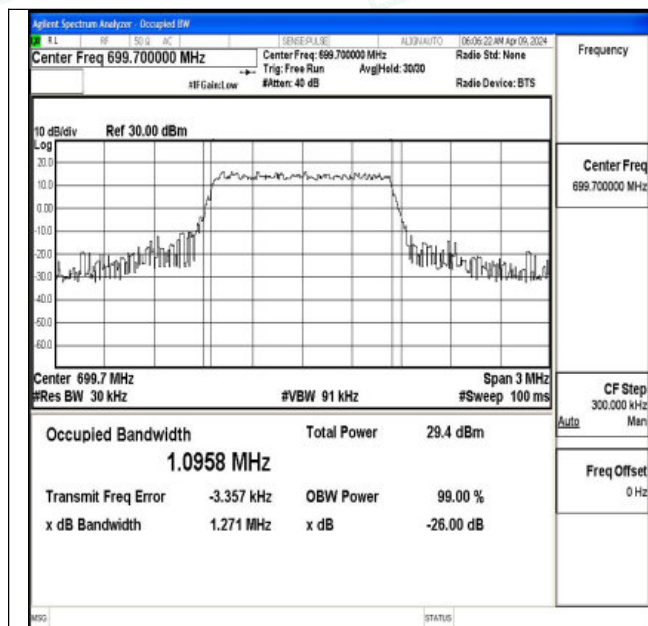
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0958	1.271	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1043	1.299	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0945	1.266	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1016	1.296	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0917	1.282	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.1055	1.340	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7176	3.154	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6989	3.108	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7129	3.134	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6987	3.099	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7167	3.152	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7031	3.094	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5192	5.342	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5175	5.260	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5329	5.294	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5176	5.271	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5249	5.274	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5091	5.146	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9883	10.18	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9851	10.06	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9973	10.02	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9988	10.15	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9788	10.03	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9906	9.915	PASS

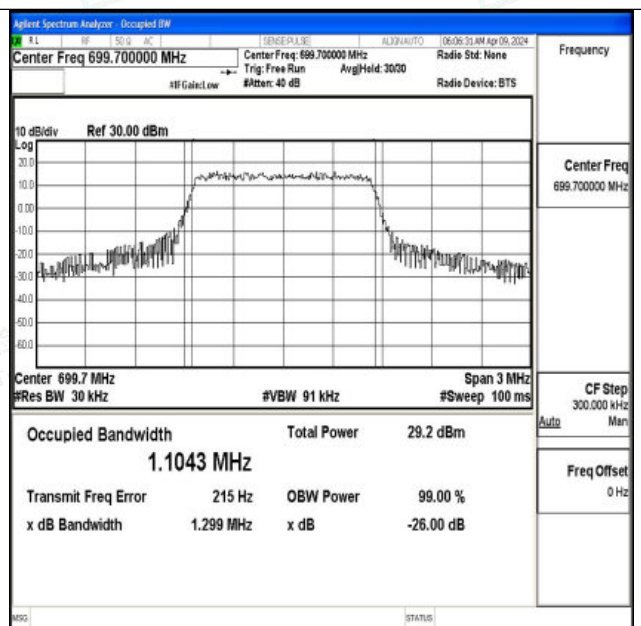




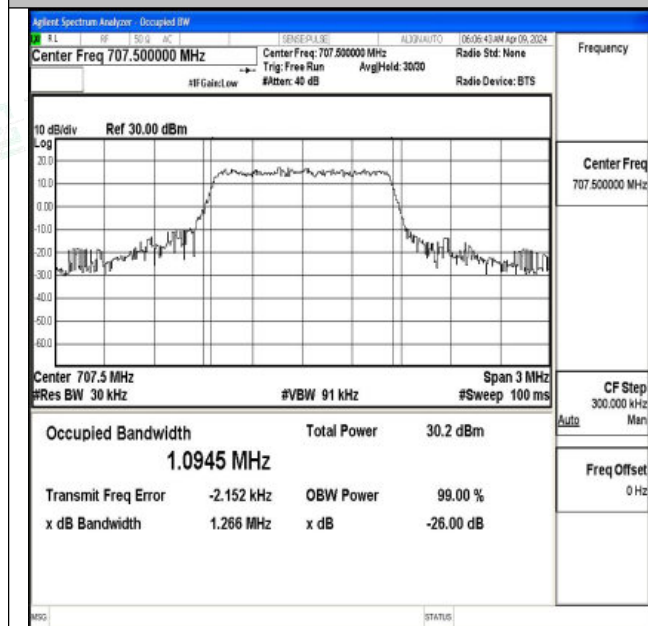
Test Graphs



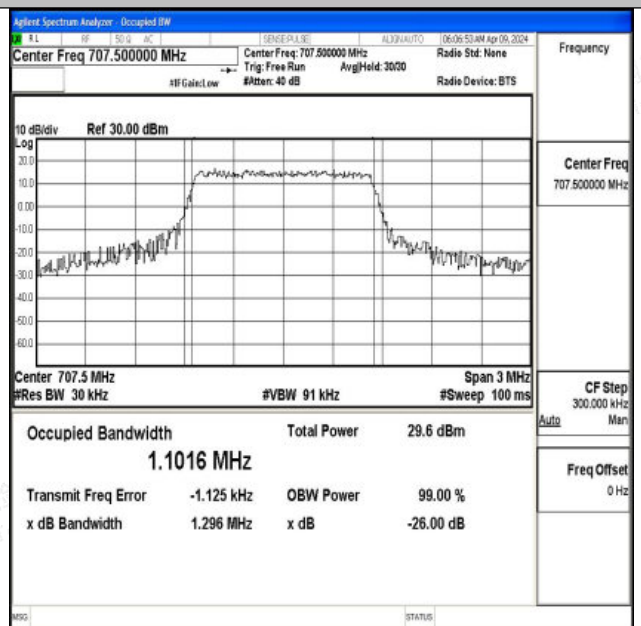
Band12-1.4MHz-QPSK-23017-6RB#0-PASS



Band12-1.4MHz-16QAM-23017-6RB#0-PASS



Band12-1.4MHz-QPSK-23095-6RB#0-PASS



Band12-1.4MHz-16QAM-23095-6RB#0-PASS

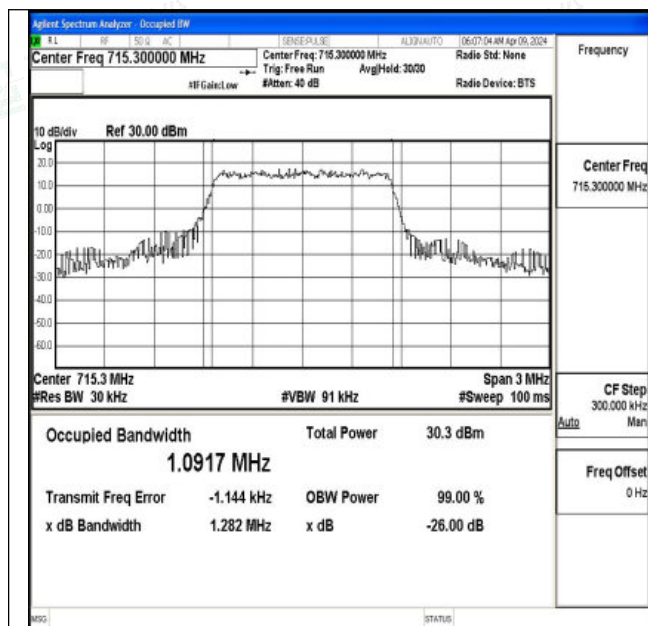


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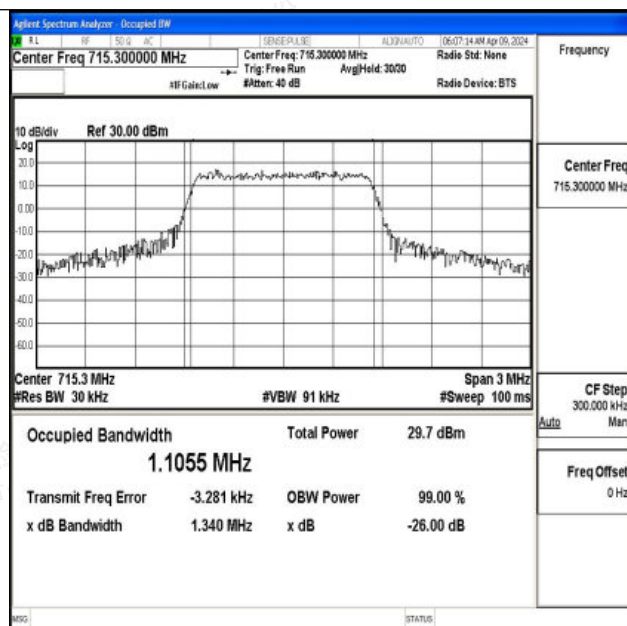
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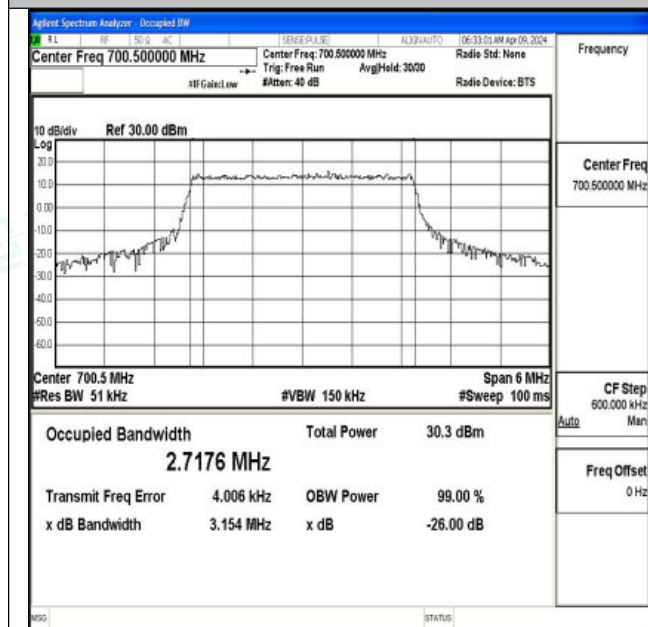
Scan code to check authenticity



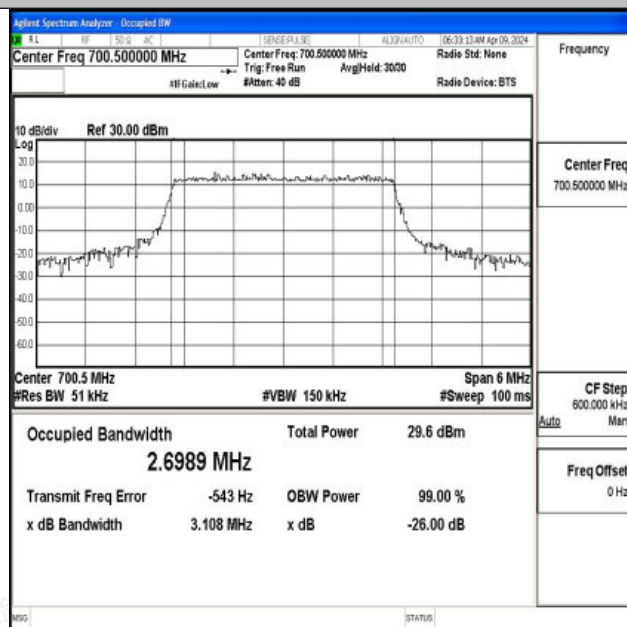
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Band12-1.4MHz-16QAM-23173-6RB#0-PASS



Band12-3MHz-QPSK-23025-15RB#0-PASS



Band12-3MHz-16QAM-23025-15RB#0-PASS

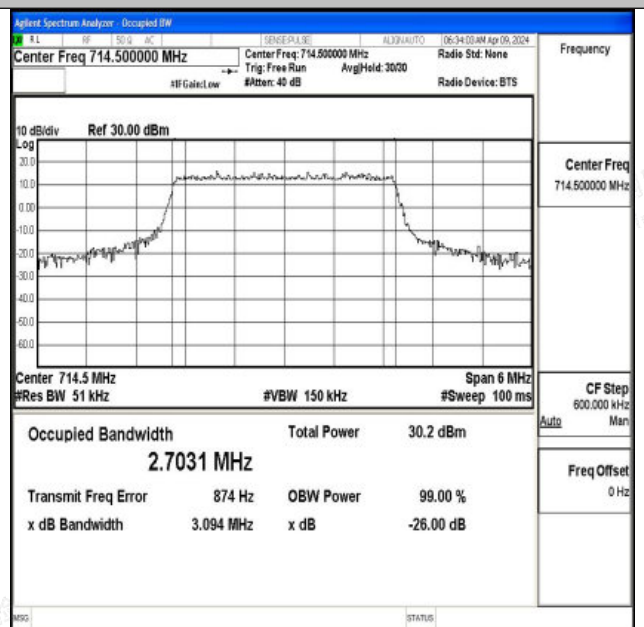
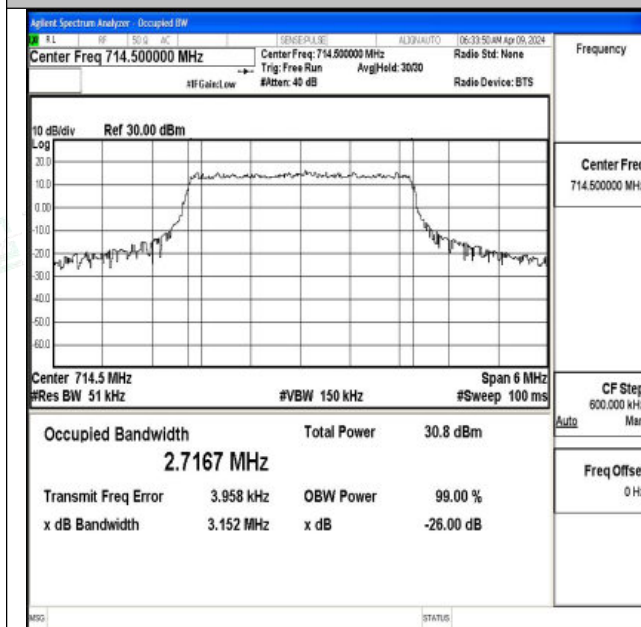
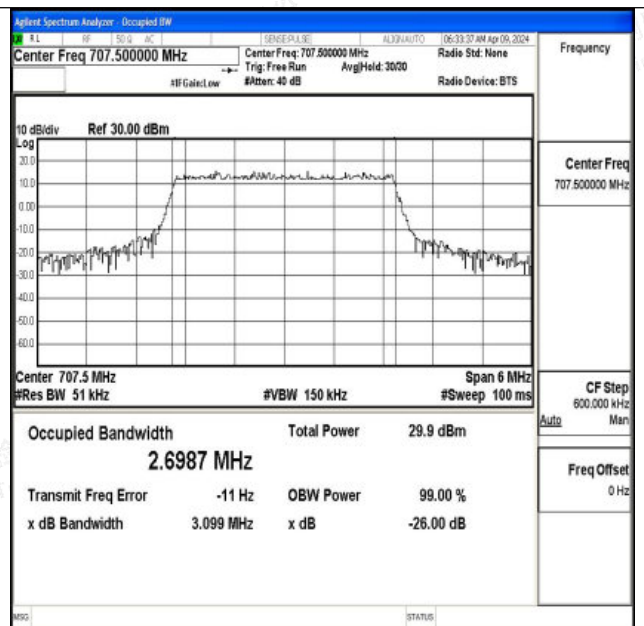
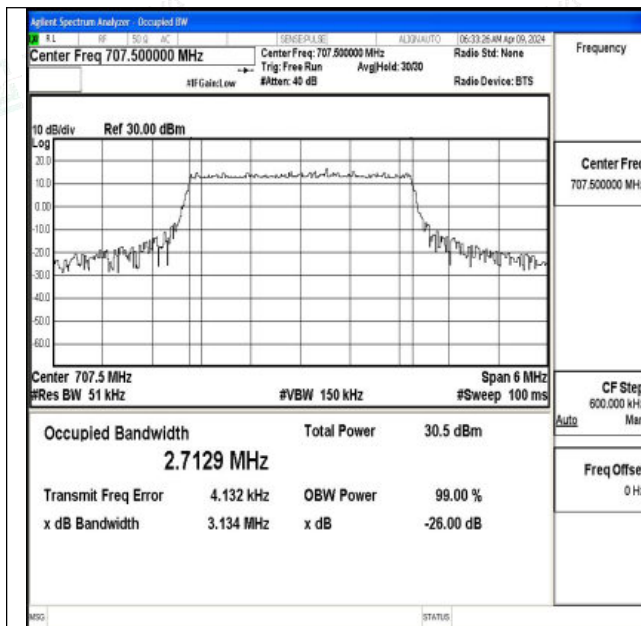


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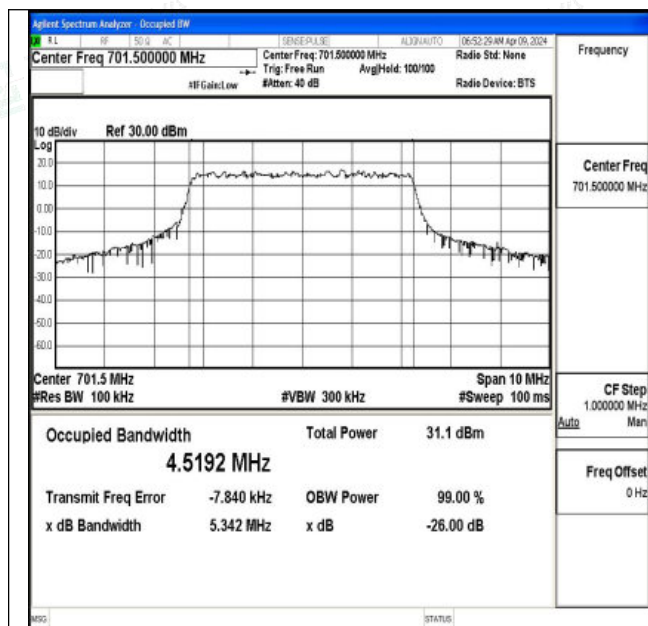


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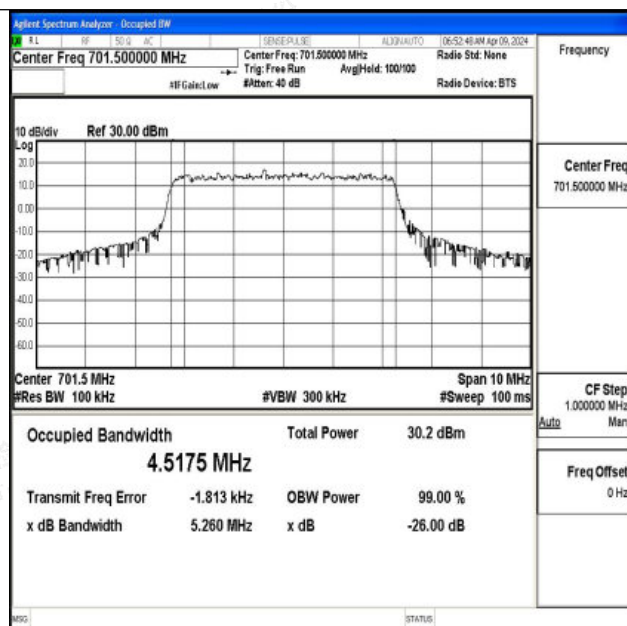
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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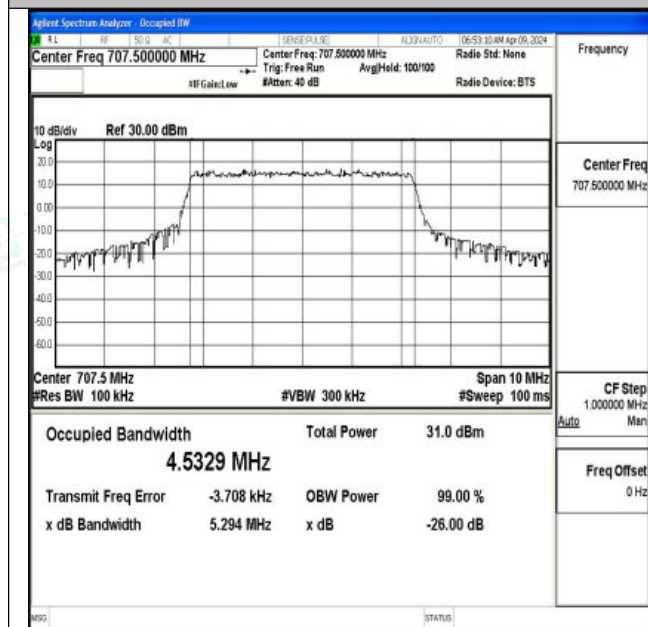
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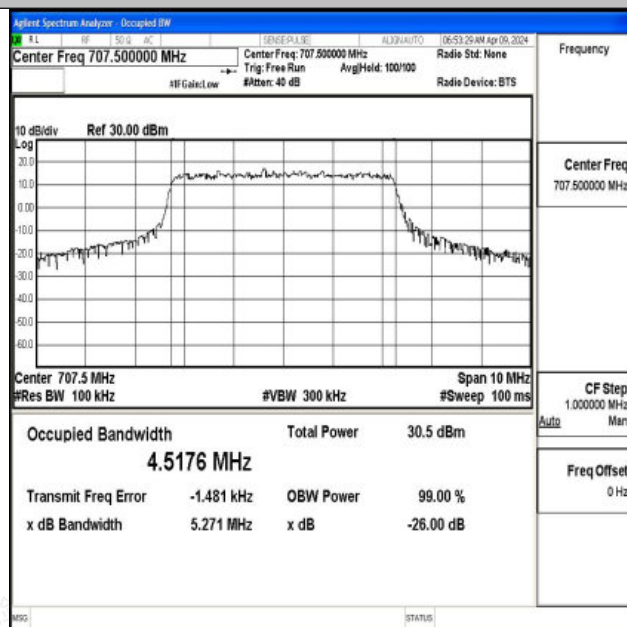
Band12-5MHz-QPSK-23035-25RB#0-PASS



Band12-5MHz-16QAM-23035-25RB#0-PASS



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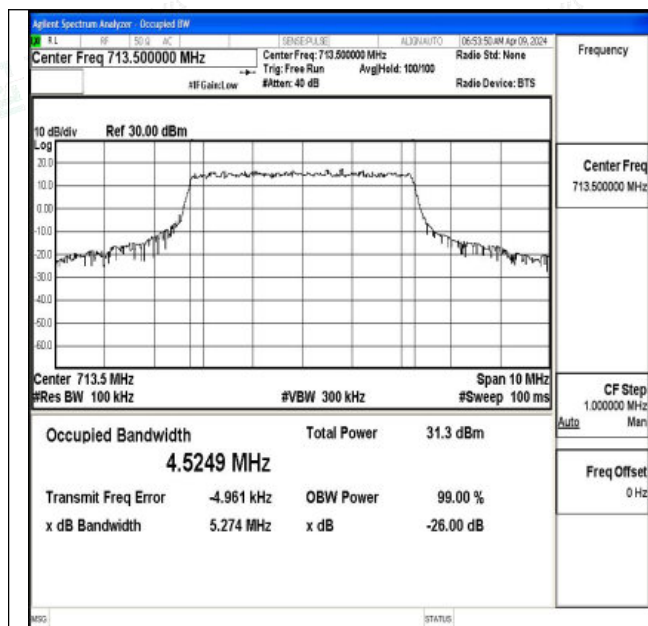


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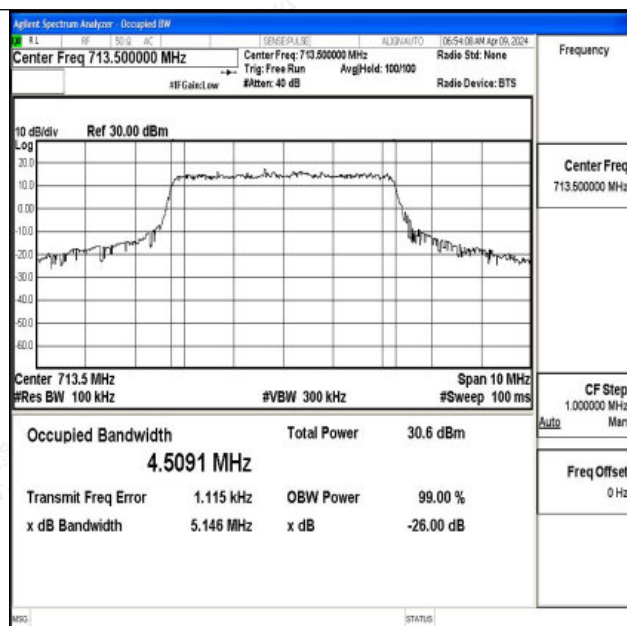
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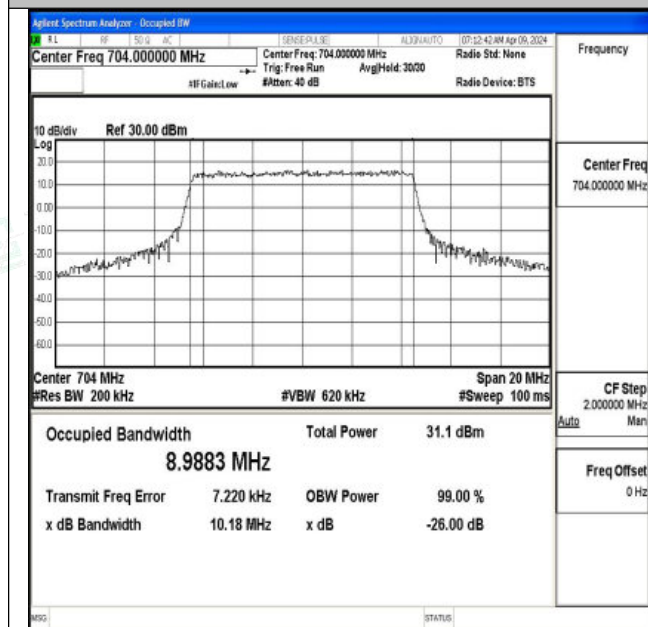
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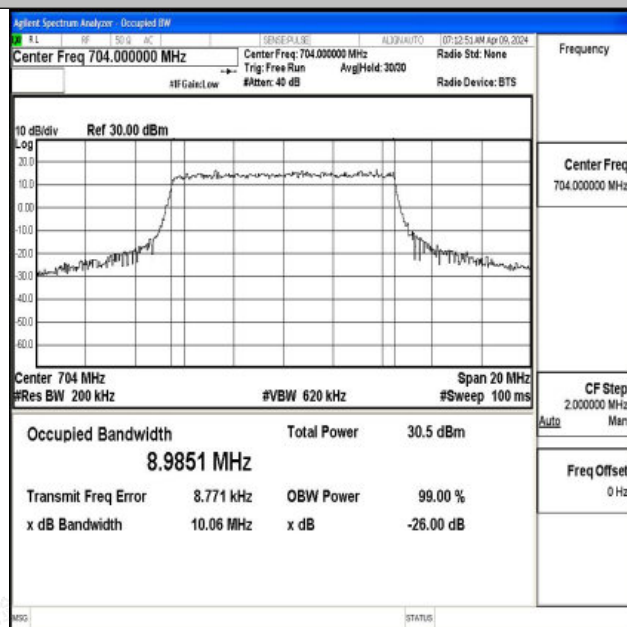
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Band12-5MHz-16QAM-23155-25RB#0-PASS



Band12-10MHz-QPSK-23060-50RB#0-PASS



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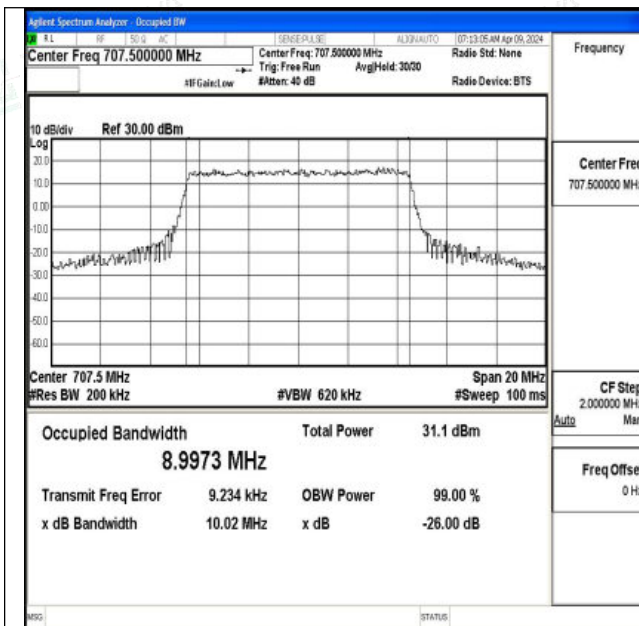


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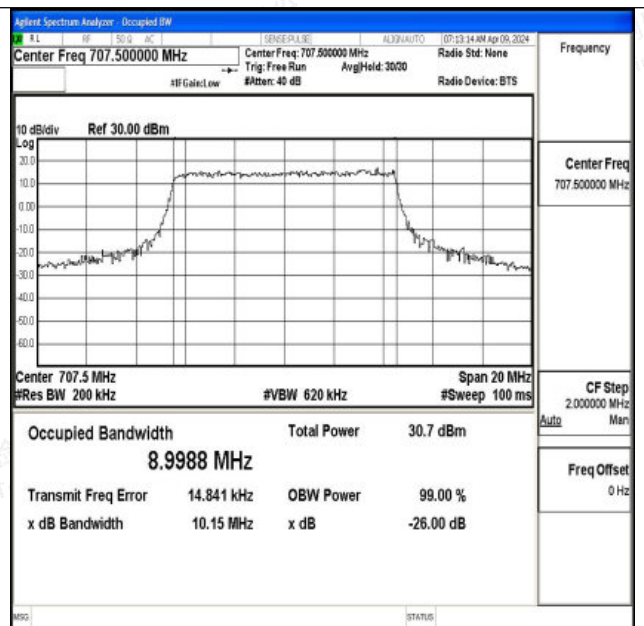
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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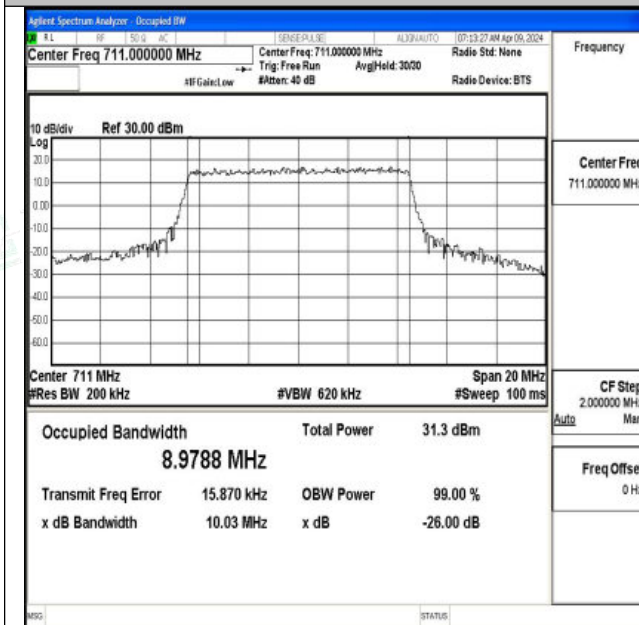
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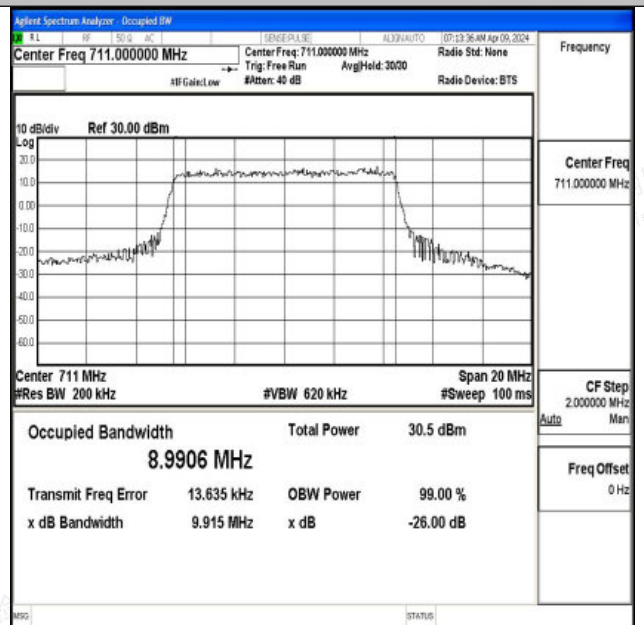
Band12-10MHz-QPSK-23095-50RB#0-PASS



Band12-10MHz-16QAM-23095-50RB#0-PASS



Band12-10MHz-QPSK-23130-50RB#0-PASS



Band12-10MHz-16QAM-23130-50RB#0-PASS



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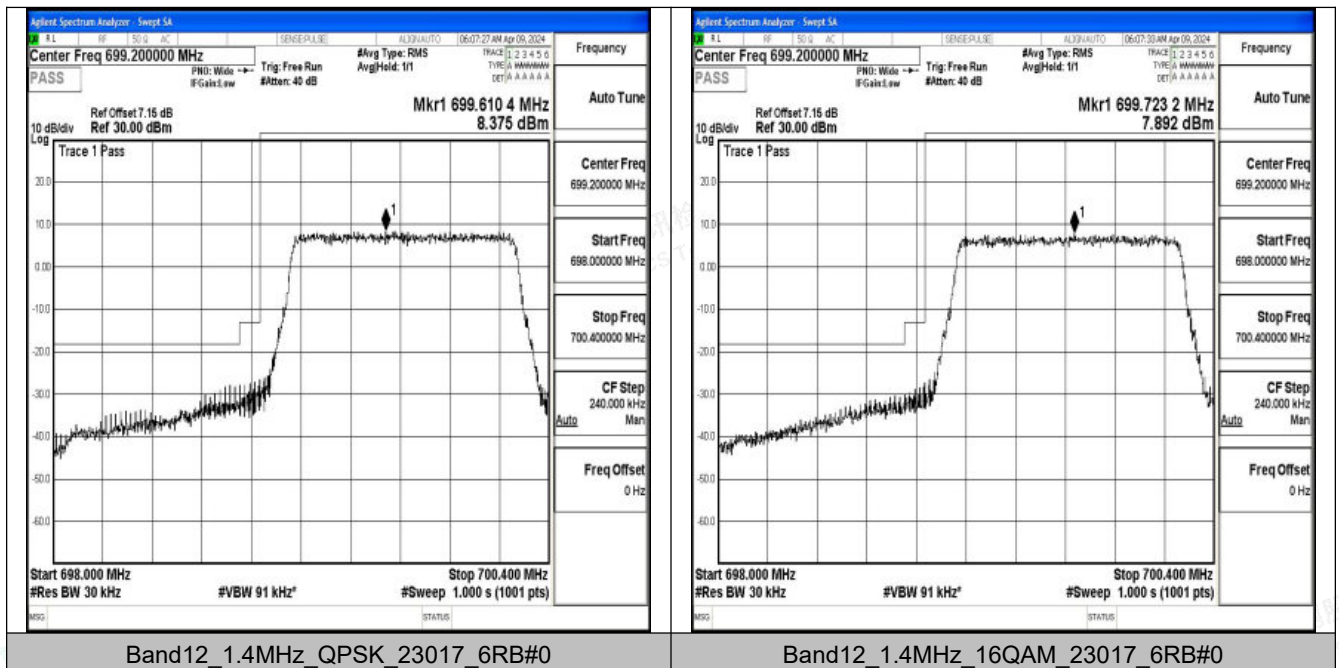


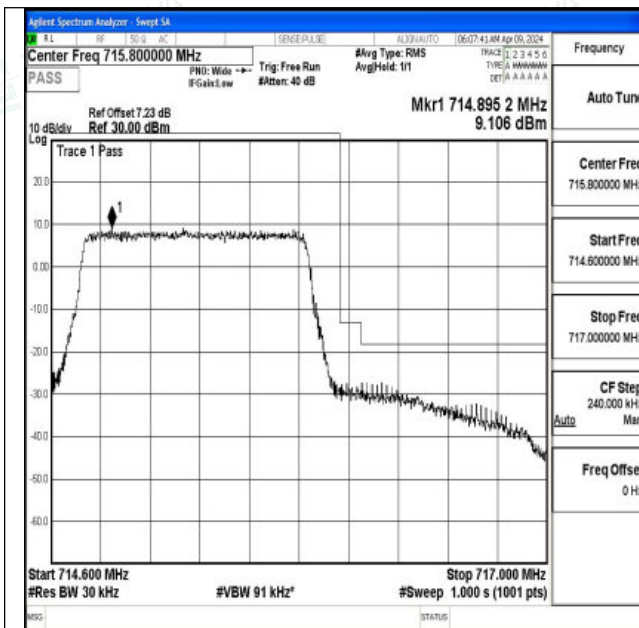
E.4 Band Edge

Test Result

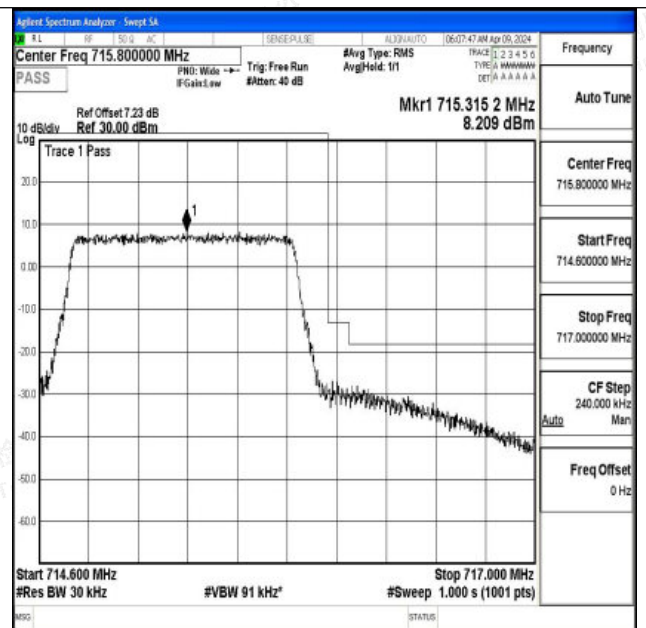
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-27.95	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-30.31	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-27.22	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-28.02	PASS
Band12	3MHz	QPSK	23025	15RB#0	-24.04	PASS
Band12	3MHz	16QAM	23025	15RB#0	-24.73	PASS
Band12	3MHz	QPSK	23165	15RB#0	-23.02	PASS
Band12	3MHz	16QAM	23165	15RB#0	-25.05	PASS
Band12	5MHz	QPSK	23035	25RB#0	-34.59	PASS
Band12	5MHz	16QAM	23035	25RB#0	-35.67	PASS
Band12	5MHz	QPSK	23155	25RB#0	-34.59	PASS
Band12	5MHz	16QAM	23155	25RB#0	-34.71	PASS
Band12	10MHz	QPSK	23060	50RB#0	-39.36	PASS
Band12	10MHz	16QAM	23060	50RB#0	-40.84	PASS
Band12	10MHz	QPSK	23130	50RB#0	-39.93	PASS
Band12	10MHz	16QAM	23130	50RB#0	-40.03	PASS

Test Graphs

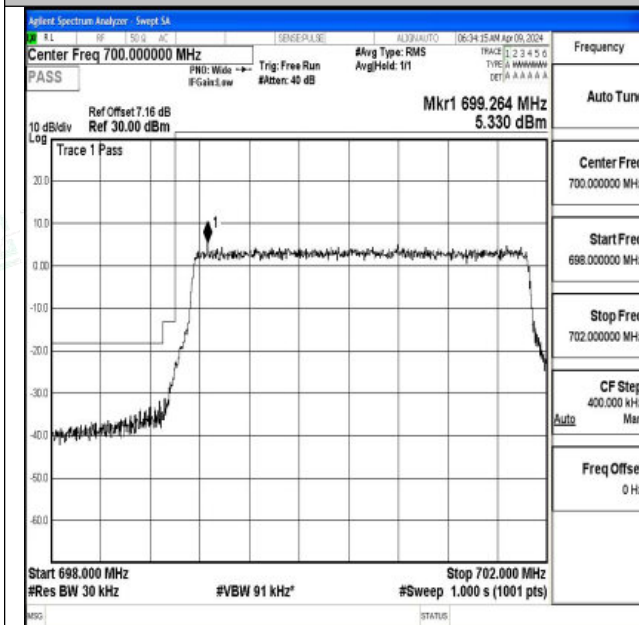




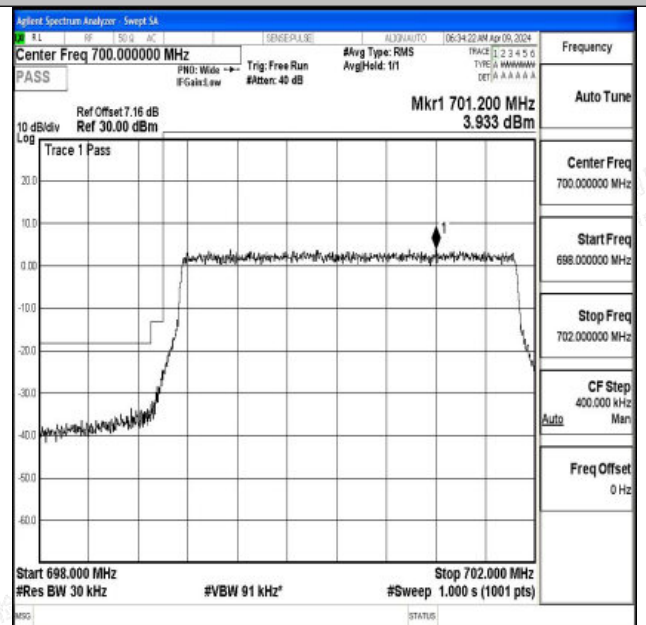
Band12_1.4MHz_QPSK_23173_6RB#0



Band12_1.4MHz_16QAM_23173_6RB#0



Band12_3MHz_QPSK_23025_15RB#0



Band12_3MHz_16QAM_23025_15RB#0

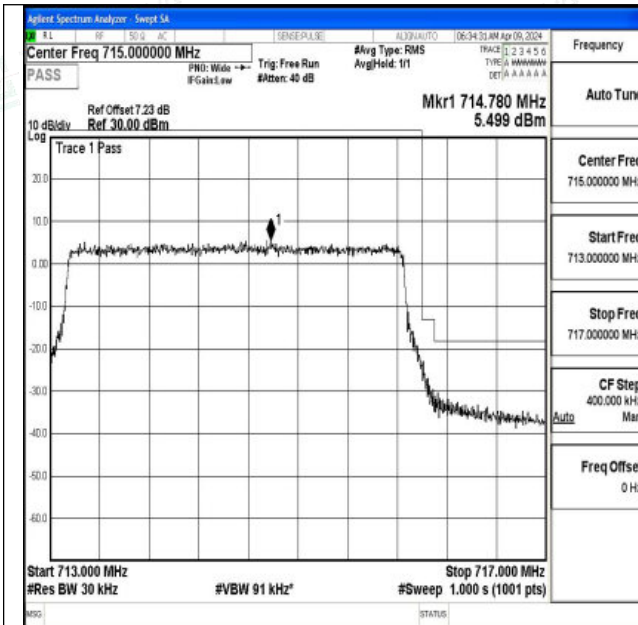


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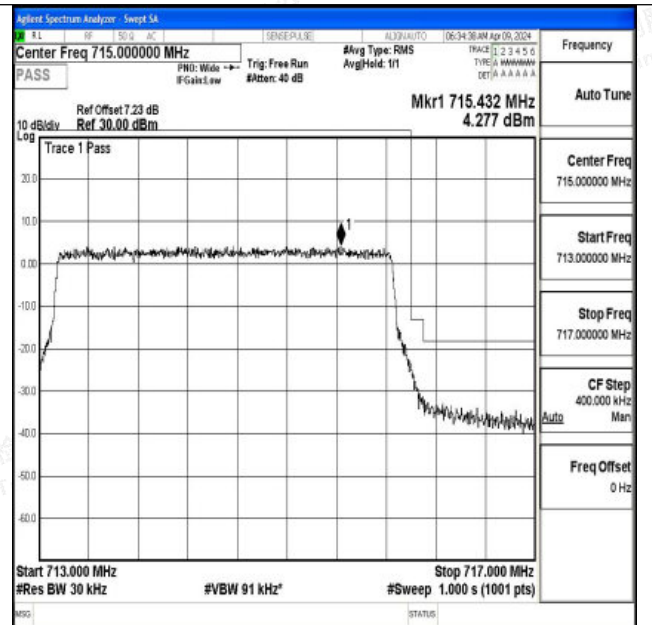
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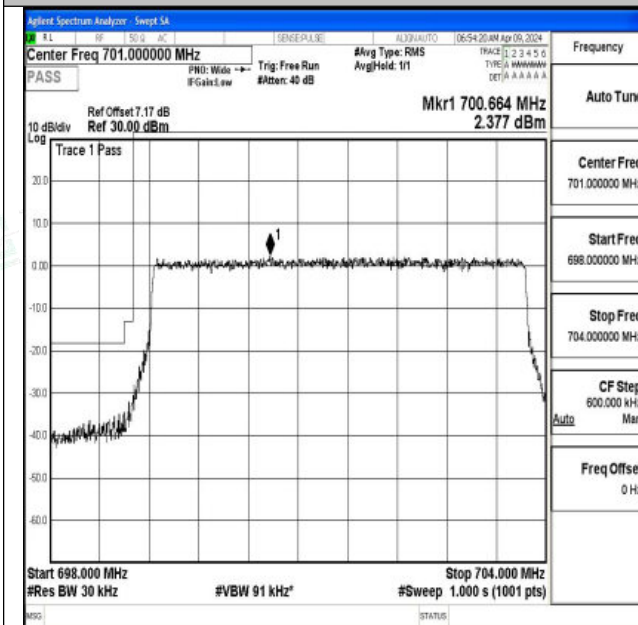
Scan code to check authenticity



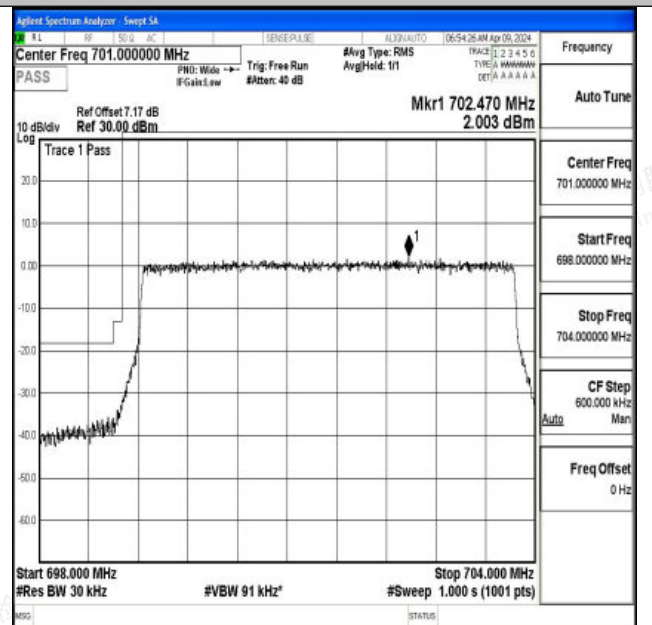
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Band12_3MHz_16QAM_23165_15RB#0



Band12_5MHz_QPSK_23035_25RB#0



Band12_5MHz_16QAM_23035_25RB#0

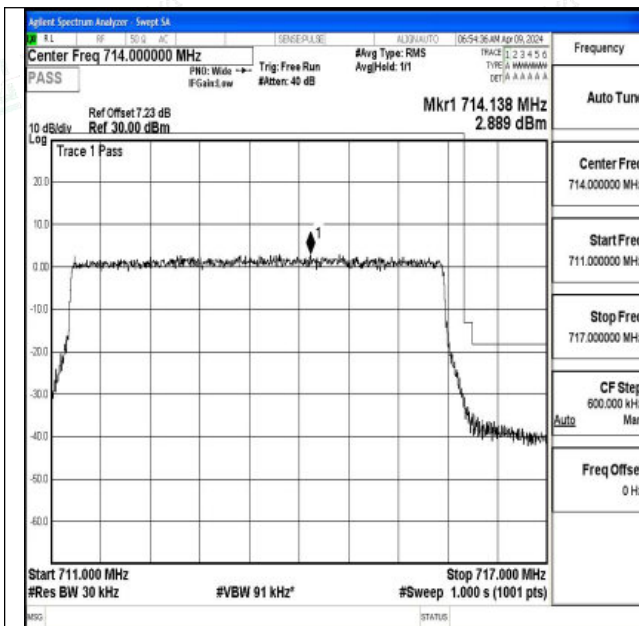


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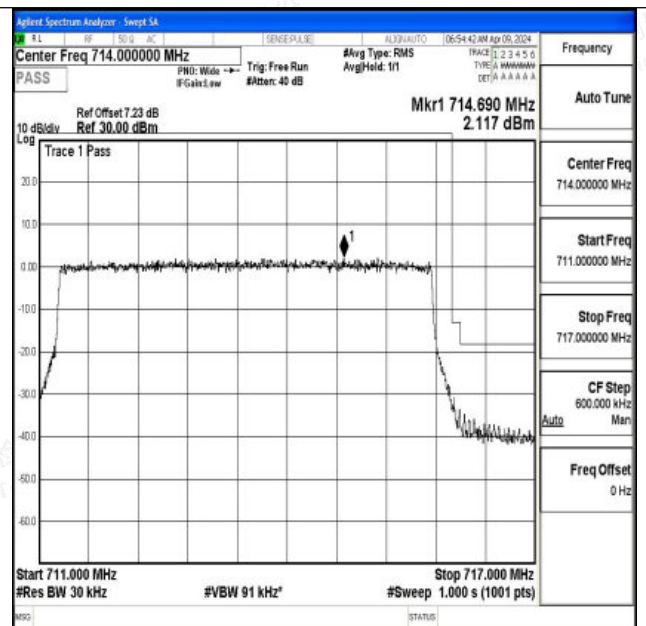
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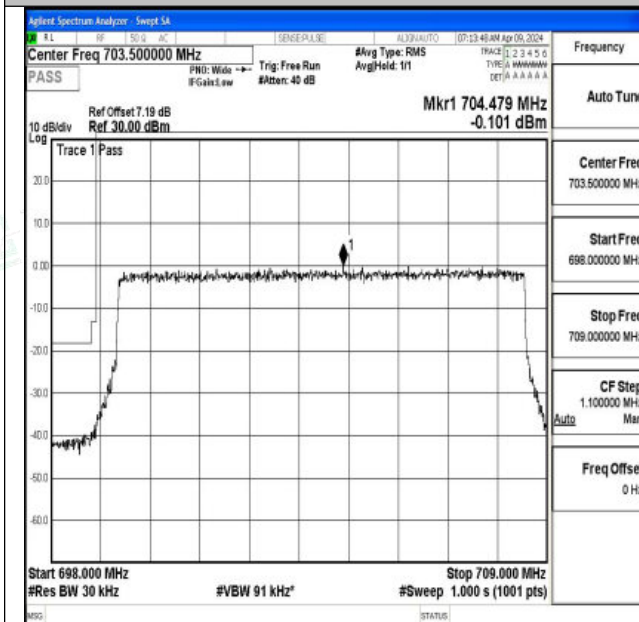
Scan code to check authenticity



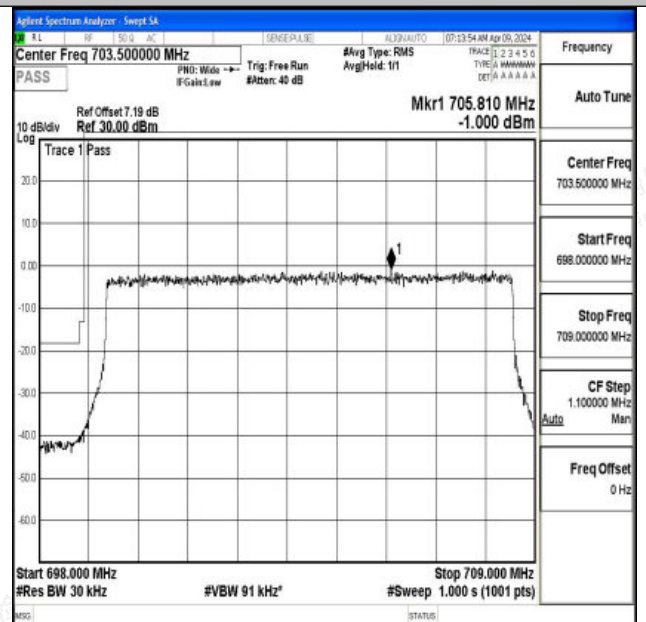
Band12_5MHz_QPSK_23155_25RB#0



Band12_5MHz_16QAM_23155_25RB#0



Band12_10MHz_QPSK_23060_50RB#0



Band12_10MHz_16QAM_23060_50RB#0

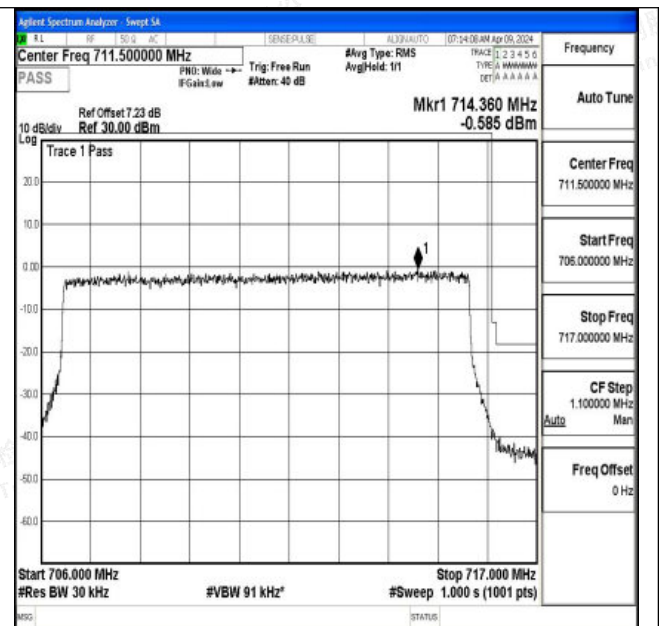
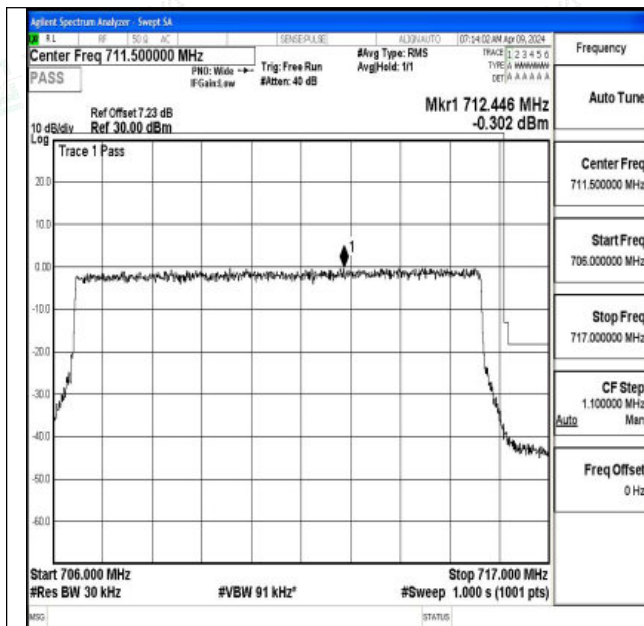


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E.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	0.009~0.15	-54.09	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	0.15~30	-53.67	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	30~1000	-46.78	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	1000~3000	-44.30	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	3000~10000	-43.58	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.009~0.15	-55.51	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	0.15~30	-52.06	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	30~1000	-45.19	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	1000~3000	-43.70	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	3000~10000	-43.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.009~0.15	-55.62	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	0.15~30	-50.73	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	30~1000	-46.22	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	1000~3000	-44.71	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	3000~10000	-44.19	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.009~0.15	-56.92	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	0.15~30	-52.56	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	30~1000	-45.64	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	1000~3000	-43.10	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	3000~10000	-44.26	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.009~0.15	-56.90	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	0.15~30	-52.10	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	30~1000	-46.58	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	1000~3000	-44.55	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3000~10000	-44.25	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.009~0.15	-55.43	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	0.15~30	-50.56	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	30~1000	-48.42	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	1000~3000	-42.33	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	3000~10000	-44.15	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.009~0.15	-57.40	PASS
Band12	3MHz	QPSK	23025	1RB#0	0.15~30	-52.40	PASS
Band12	3MHz	QPSK	23025	1RB#0	30~1000	-48.31	PASS
Band12	3MHz	QPSK	23025	1RB#0	1000~3000	-44.40	PASS



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Band12	3MHz	QPSK	23025	1RB#0	3000~10000	-44.42	PASS
Band12	3MHz	16QAM	23025	1RB#0	0.009~0.15	-58.43	PASS
Band12	3MHz	16QAM	23025	1RB#0	0.15~30	-51.56	PASS
Band12	3MHz	16QAM	23025	1RB#0	30~1000	-48.65	PASS
Band12	3MHz	16QAM	23025	1RB#0	1000~3000	-45.26	PASS
Band12	3MHz	16QAM	23025	1RB#0	3000~10000	-43.70	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.009~0.15	-57.74	PASS
Band12	3MHz	QPSK	23095	1RB#0	0.15~30	-52.41	PASS
Band12	3MHz	QPSK	23095	1RB#0	30~1000	-50.44	PASS
Band12	3MHz	QPSK	23095	1RB#0	1000~3000	-44.32	PASS
Band12	3MHz	QPSK	23095	1RB#0	3000~10000	-44.18	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.009~0.15	-56.93	PASS
Band12	3MHz	16QAM	23095	1RB#0	0.15~30	-52.71	PASS
Band12	3MHz	16QAM	23095	1RB#0	30~1000	-50.87	PASS
Band12	3MHz	16QAM	23095	1RB#0	1000~3000	-46.22	PASS
Band12	3MHz	16QAM	23095	1RB#0	3000~10000	-44.12	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.009~0.15	-55.07	PASS
Band12	3MHz	QPSK	23165	1RB#0	0.15~30	-52.37	PASS
Band12	3MHz	QPSK	23165	1RB#0	30~1000	-51.11	PASS
Band12	3MHz	QPSK	23165	1RB#0	1000~3000	-43.89	PASS
Band12	3MHz	QPSK	23165	1RB#0	3000~10000	-43.92	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.009~0.15	-55.79	PASS
Band12	3MHz	16QAM	23165	1RB#0	0.15~30	-50.89	PASS
Band12	3MHz	16QAM	23165	1RB#0	30~1000	-50.72	PASS
Band12	3MHz	16QAM	23165	1RB#0	1000~3000	-43.92	PASS
Band12	3MHz	16QAM	23165	1RB#0	3000~10000	-44.17	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.009~0.15	-55.20	PASS
Band12	5MHz	QPSK	23035	1RB#0	0.15~30	-52.67	PASS
Band12	5MHz	QPSK	23035	1RB#0	30~1000	-56.91	PASS
Band12	5MHz	QPSK	23035	1RB#0	1000~3000	-44.29	PASS
Band12	5MHz	QPSK	23035	1RB#0	3000~10000	-44.25	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.009~0.15	-58.33	PASS
Band12	5MHz	16QAM	23035	1RB#0	0.15~30	-51.01	PASS
Band12	5MHz	16QAM	23035	1RB#0	30~1000	-56.18	PASS
Band12	5MHz	16QAM	23035	1RB#0	1000~3000	-45.91	PASS
Band12	5MHz	16QAM	23035	1RB#0	3000~10000	-44.33	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.009~0.15	-57.64	PASS
Band12	5MHz	QPSK	23095	1RB#0	0.15~30	-53.51	PASS
Band12	5MHz	QPSK	23095	1RB#0	30~1000	-59.82	PASS
Band12	5MHz	QPSK	23095	1RB#0	1000~3000	-45.34	PASS



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Band12	5MHz	QPSK	23095	1RB#0	3000~10000	-43.97	PASS
Band12	5MHz	16QAM	23095	1RB#0	0.009~0.15	-56.62	PASS
Band12	5MHz	16QAM	23095	1RB#0	0.15~30	-52.70	PASS
Band12	5MHz	16QAM	23095	1RB#0	30~1000	-60.85	PASS
Band12	5MHz	16QAM	23095	1RB#0	1000~3000	-45.68	PASS
Band12	5MHz	16QAM	23095	1RB#0	3000~10000	-44.44	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.009~0.15	-58.82	PASS
Band12	5MHz	QPSK	23155	1RB#0	0.15~30	-51.25	PASS
Band12	5MHz	QPSK	23155	1RB#0	30~1000	-59.54	PASS
Band12	5MHz	QPSK	23155	1RB#0	1000~3000	-45.24	PASS
Band12	5MHz	QPSK	23155	1RB#0	3000~10000	-43.93	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.009~0.15	-56.90	PASS
Band12	5MHz	16QAM	23155	1RB#0	0.15~30	-53.05	PASS
Band12	5MHz	16QAM	23155	1RB#0	30~1000	-60.27	PASS
Band12	5MHz	16QAM	23155	1RB#0	1000~3000	-46.15	PASS
Band12	5MHz	16QAM	23155	1RB#0	3000~10000	-44.12	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.009~0.15	-56.46	PASS
Band12	10MHz	QPSK	23060	1RB#0	0.15~30	-50.87	PASS
Band12	10MHz	QPSK	23060	1RB#0	30~1000	-61.85	PASS
Band12	10MHz	QPSK	23060	1RB#0	1000~3000	-44.00	PASS
Band12	10MHz	QPSK	23060	1RB#0	3000~10000	-44.27	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.009~0.15	-55.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	0.15~30	-53.49	PASS
Band12	10MHz	16QAM	23060	1RB#0	30~1000	-62.03	PASS
Band12	10MHz	16QAM	23060	1RB#0	1000~3000	-45.71	PASS
Band12	10MHz	16QAM	23060	1RB#0	3000~10000	-44.06	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.009~0.15	-56.45	PASS
Band12	10MHz	QPSK	23095	1RB#0	0.15~30	-52.81	PASS
Band12	10MHz	QPSK	23095	1RB#0	30~1000	-62.13	PASS
Band12	10MHz	QPSK	23095	1RB#0	1000~3000	-44.84	PASS
Band12	10MHz	QPSK	23095	1RB#0	3000~10000	-43.83	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.009~0.15	-57.68	PASS
Band12	10MHz	16QAM	23095	1RB#0	0.15~30	-54.06	PASS
Band12	10MHz	16QAM	23095	1RB#0	30~1000	-61.87	PASS
Band12	10MHz	16QAM	23095	1RB#0	1000~3000	-44.16	PASS
Band12	10MHz	16QAM	23095	1RB#0	3000~10000	-44.46	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.009~0.15	-56.54	PASS
Band12	10MHz	QPSK	23130	1RB#0	0.15~30	-53.20	PASS
Band12	10MHz	QPSK	23130	1RB#0	30~1000	-62.00	PASS
Band12	10MHz	QPSK	23130	1RB#0	1000~3000	-43.88	PASS



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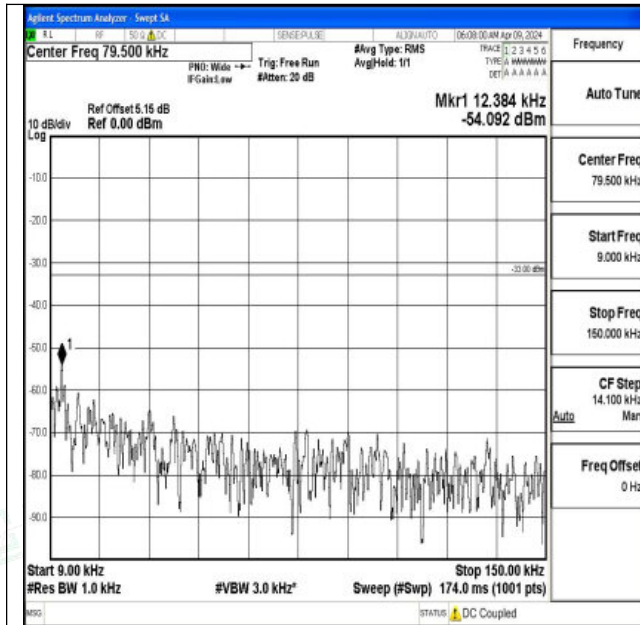
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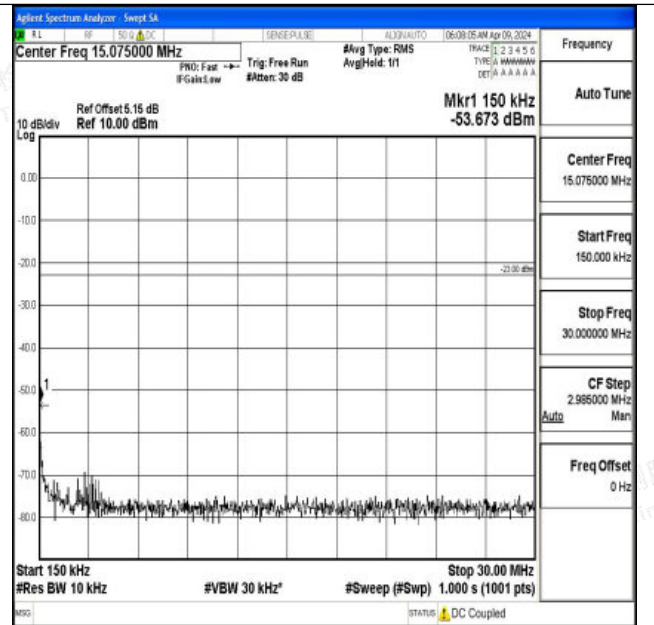


Band12	10MHz	QPSK	23130	1RB#0	3000~10000	-44.32	PASS
Band12	10MHz	16QAM	23130	1RB#0	0.009~0.15	-58.68	PASS
Band12	10MHz	16QAM	23130	1RB#0	0.15~30	-52.09	PASS
Band12	10MHz	16QAM	23130	1RB#0	30~1000	-62.02	PASS
Band12	10MHz	16QAM	23130	1RB#0	1000~3000	-44.45	PASS
Band12	10MHz	16QAM	23130	1RB#0	3000~10000	-44.21	PASS

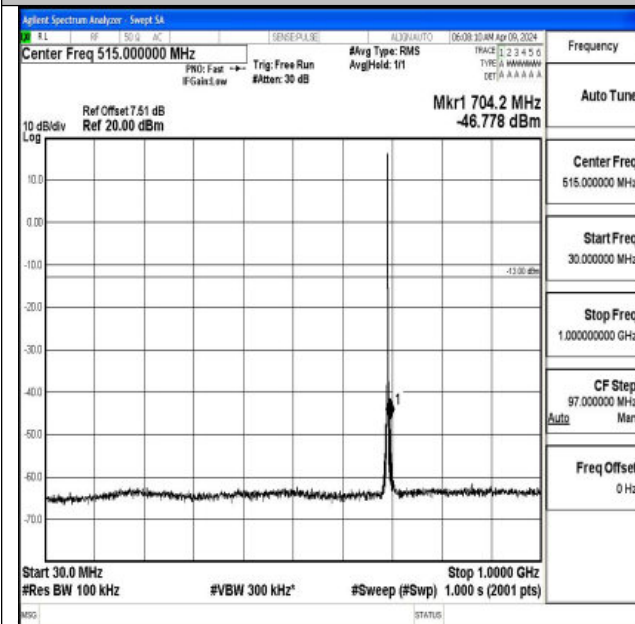
Test Graphs



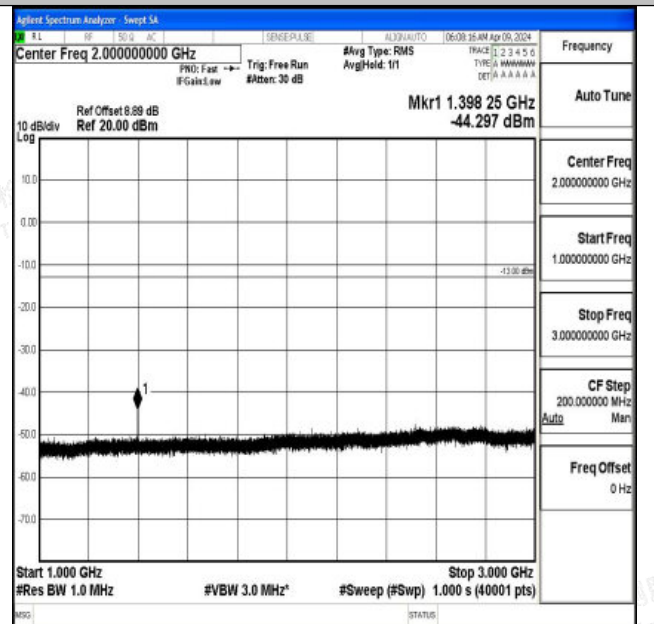
Band12_1.4MHz_QPSK_23017_1RB#0_0.009~0.15_0.009~0.15



Band12_1.4MHz_QPSK_23017_1RB#0_0.15~30_0.15~30



Band12_1.4MHz_QPSK_23017_1RB#0_30~1000_30~100



Band12_1.4MHz_QPSK_23017_1RB#0_1000~3000_1000~

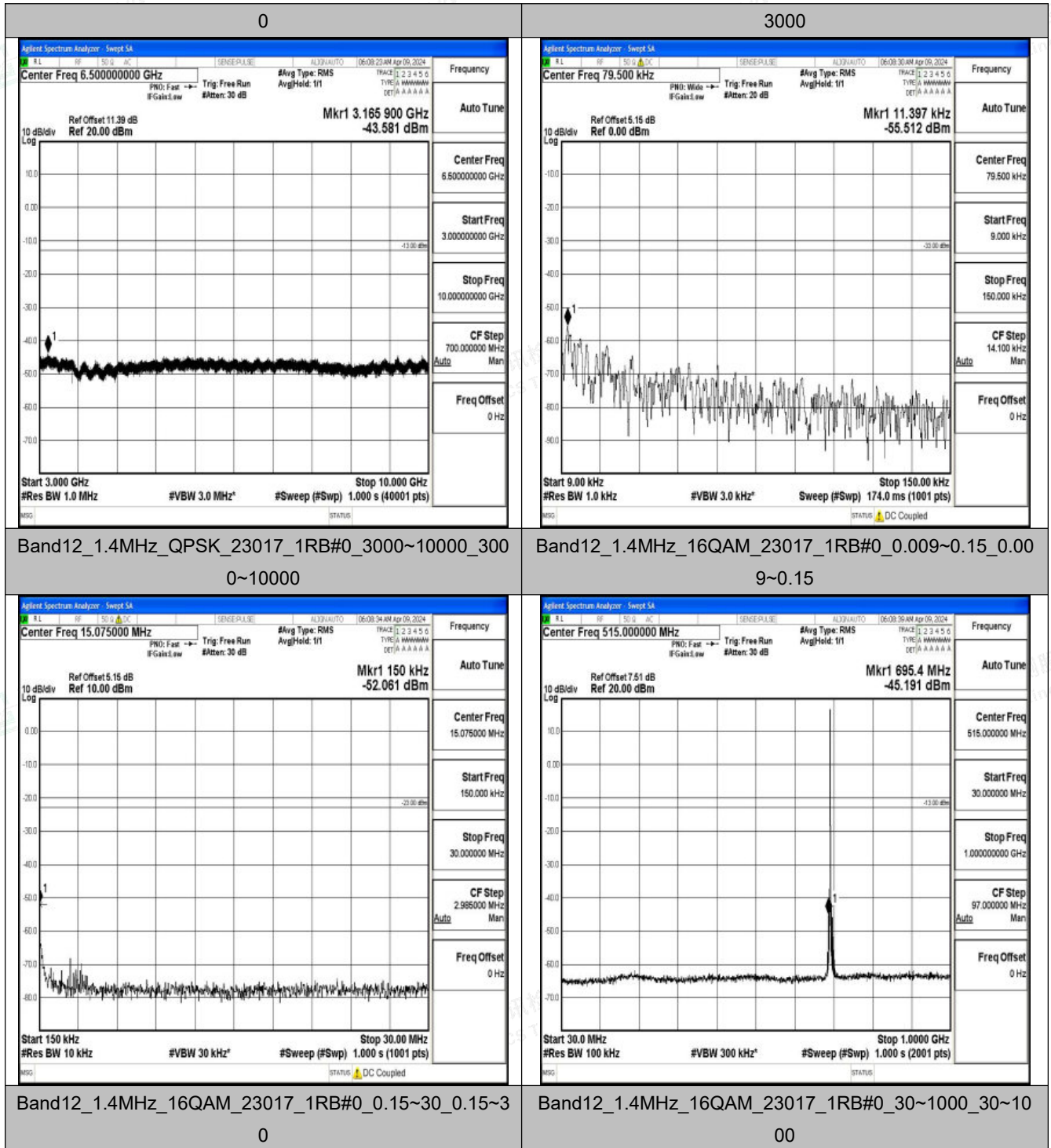


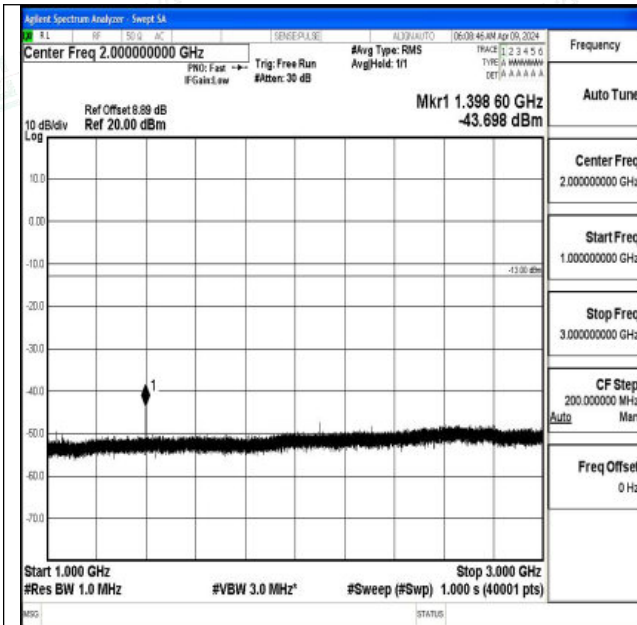
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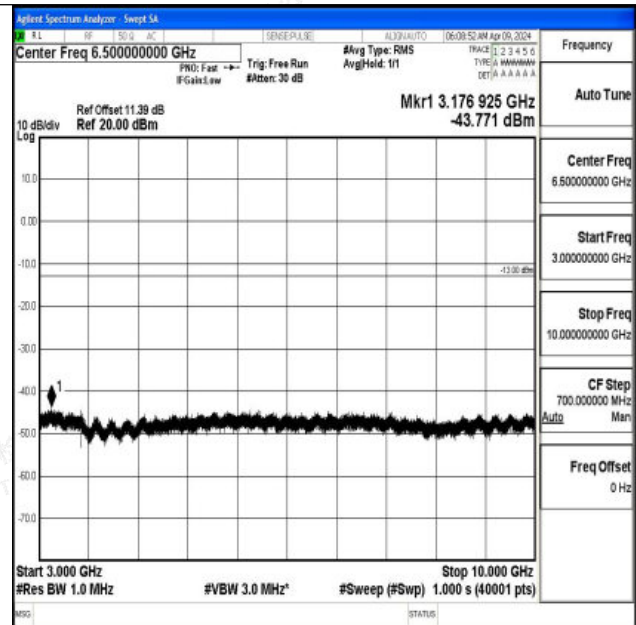
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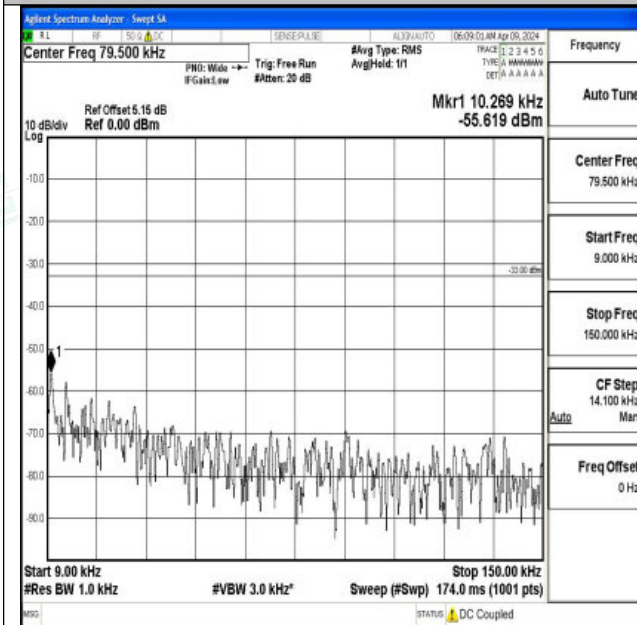




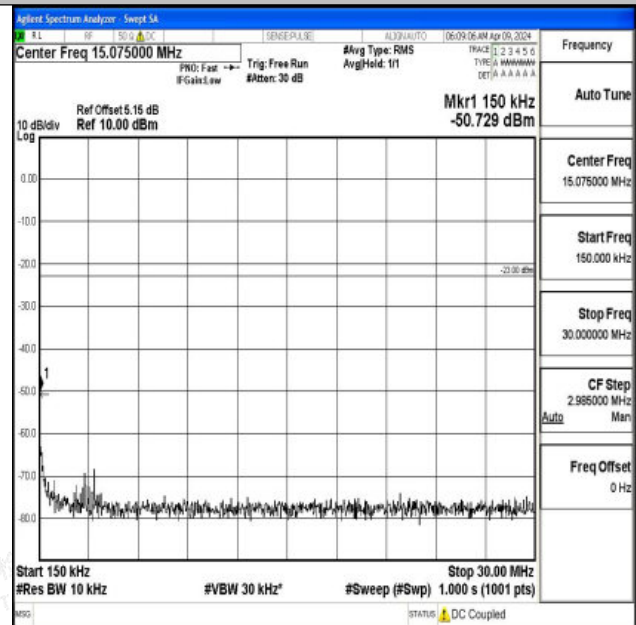
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0~3000



Band12_1.4MHz_16QAM_23017_1RB#0_3000~10000_300
0~10000



Band12_1.4MHz_QPSK_23095_1RB#0_0.009~0.15_0.00
9~0.15



Band12_1.4MHz_QPSK_23095_1RB#0_0.15~30_0.15~30

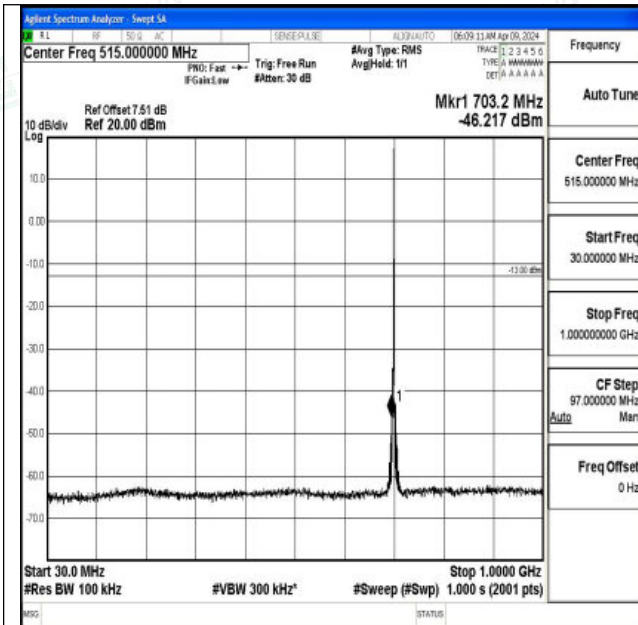


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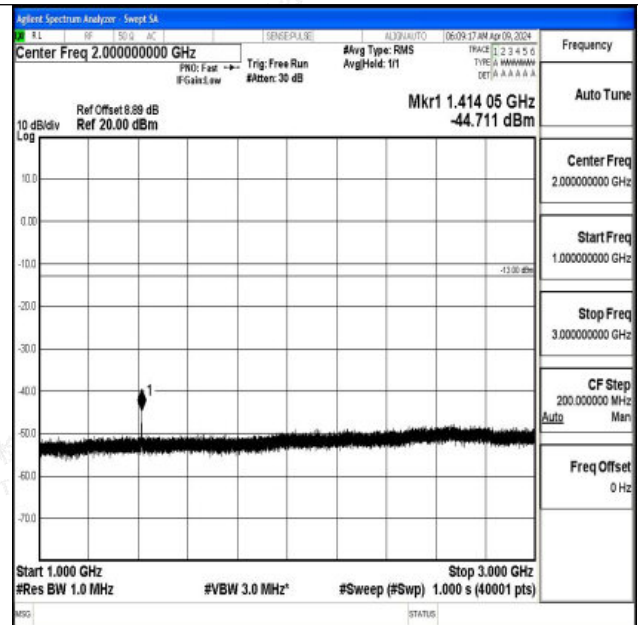
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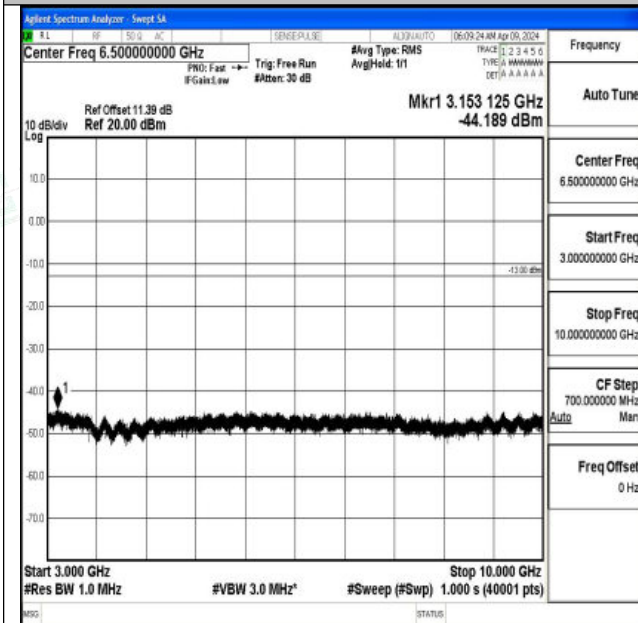
Band12_1.4MHz_QPSK_23095_1RB#0_30~1000_30~100

0



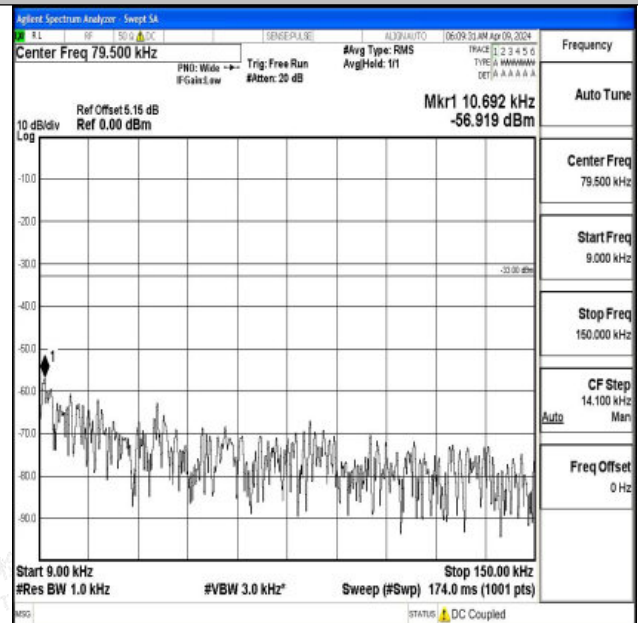
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3000



Band12_1.4MHz_QPSK_23095_1RB#0_3000~10000_3000~10000

0~10000



Band12_1.4MHz_16QAM_23095_1RB#0_0.009~0.15_0.009~0.15

9~0.15

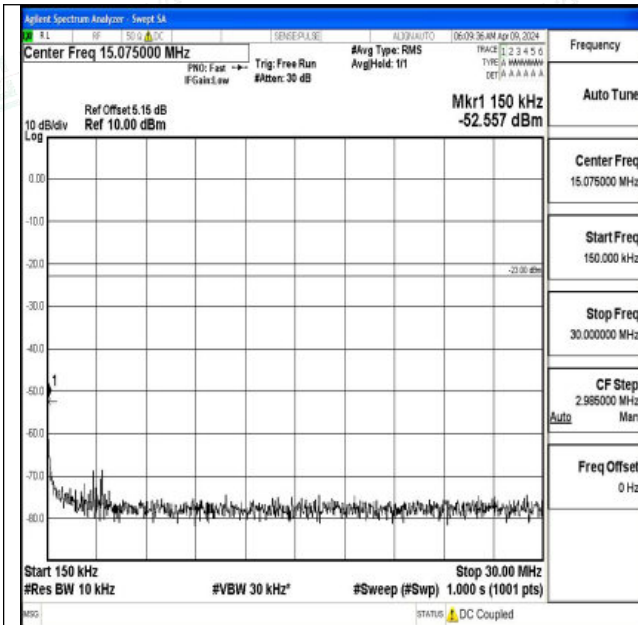


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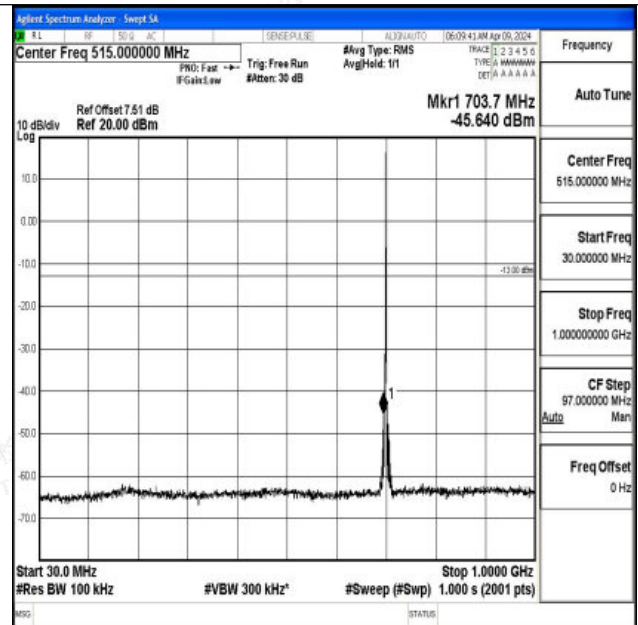
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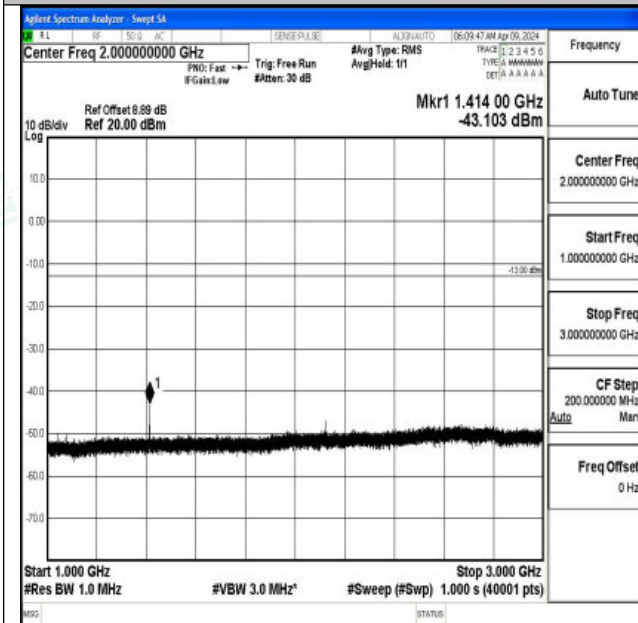
Band12_1.4MHz_16QAM_23095_1RB#0_0.15~30_0.15~3

0



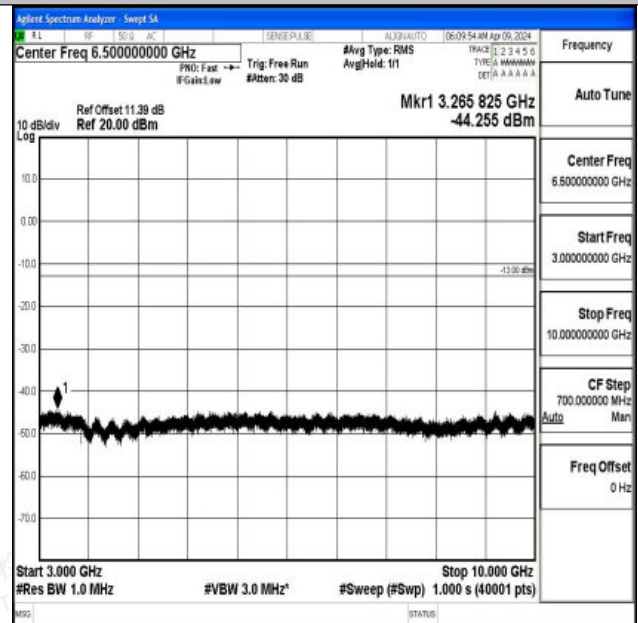
Band12_1.4MHz_16QAM_23095_1RB#0_30~1000_30~10

00



Band12_1.4MHz_16QAM_23095_1RB#0_1000~3000_100

0~3000



Band12_1.4MHz_16QAM_23095_1RB#0_3000~10000_300

0~10000



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