FCC LTE Band12 Test Data

General Description of EUT	
Product Name:	4G Smartphone
Test Model:	Connect Pro
Sample ID:	202304-0231-9-#2
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202304-0231-106 The report only show the worst case data.	

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1. Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.63	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.83	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.62	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.73	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.72	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.71	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.69	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.67	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.78	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.69	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.73	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.72	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.74	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.76	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.60	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.63	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.60	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.69	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.70	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.78	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.78	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.80	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.91	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.64	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.66	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.61	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.75	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.79	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.03	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.79	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.69	PASS

Band12	1.4MHz	16QAM	23095	3RB#1	21.67	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.72	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.67	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.55	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.74	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.50	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.57	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.60	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.50	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.66	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.67	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.69	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.72	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.70	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.82	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.79	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.82	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.76	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.84	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.85	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.82	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.82	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.75	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.75	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.74	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.86	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.89	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.85	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.80	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.97	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.89	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.91	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.78	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.78	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.85	PASS

Band12	3MHz	16QAM	23025	15RB#0	20.79	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.03	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.94	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.92	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.84	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.86	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.78	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.73	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.74	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.71	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.65	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.85	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.84	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.83	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.70	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.55	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.67	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.64	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.59	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.57	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.76	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.71	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.57	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.78	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.67	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.78	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.72	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.71	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.74	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.62	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.76	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.67	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.63	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.64	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.63	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.70	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.62	PASS

Band12	5MHz	16QAM	23035	1RB#12	21.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.75	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.52	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.62	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.68	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.67	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.91	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.04	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.92	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.78	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.71	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.69	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.80	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.65	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.68	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.67	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.66	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.76	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.53	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.88	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.65	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.67	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.70	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.73	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.72	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.56	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.89	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.63	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.86	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.83	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.78	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.83	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.68	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.82	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.70	PASS

Band12	10MHz	QPSK	23130	25RB#0	21.94	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.93	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.87	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.84	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.99	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.86	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.66	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.65	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.75	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.67	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.86	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.04	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.83	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.87	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.86	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.83	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.81	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.64	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.80	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.61	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.97	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.96	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.85	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.89	PASS

2. Peak-to-Average Ratio(CCDF)

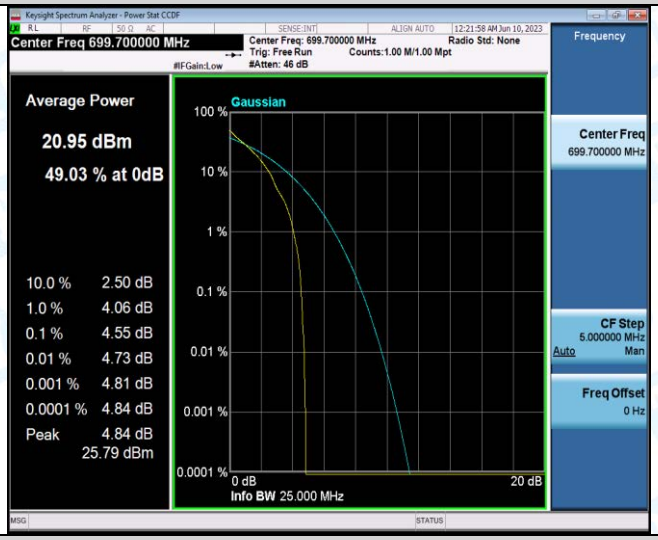
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	4.55	13	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	5.15	13	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	4.92	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.30	13	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	3.84	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.49	13	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	5.27	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.00	13	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	5.81	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	6.15	13	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	4.73	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.36	13	PASS
Band12	3MHz	QPSK	23025	1RB#0	4.57	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.10	13	PASS
Band12	3MHz	QPSK	23095	1RB#0	4.59	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.32	13	PASS
Band12	3MHz	QPSK	23165	1RB#0	3.76	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.48	13	PASS
Band12	3MHz	16QAM	23025	1RB#0	5.40	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	6.00	13	PASS
Band12	3MHz	16QAM	23095	1RB#0	5.32	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	6.19	13	PASS
Band12	3MHz	16QAM	23165	1RB#0	4.69	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.44	13	PASS
Band12	5MHz	QPSK	23035	1RB#0	4.79	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.22	13	PASS
Band12	5MHz	QPSK	23095	1RB#0	4.71	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.35	13	PASS
Band12	5MHz	QPSK	23155	1RB#0	4.37	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.77	13	PASS

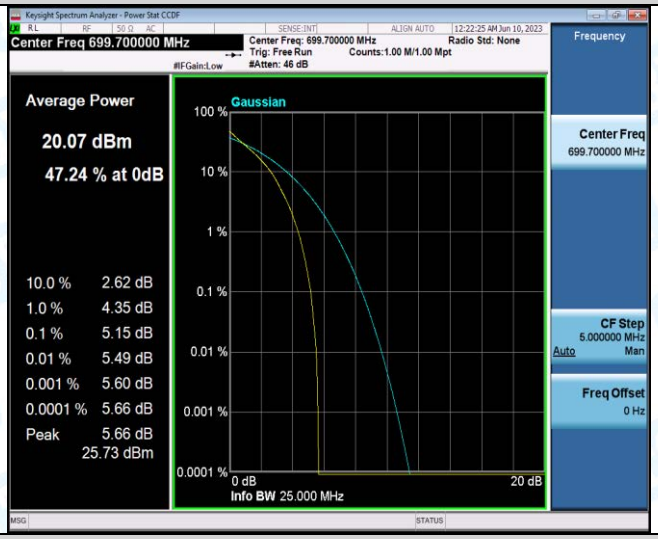
Band12	5MHz	16QAM	23035	1RB#0	5.47	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	5.97	13	PASS
Band12	5MHz	16QAM	23095	1RB#0	5.31	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	6.14	13	PASS
Band12	5MHz	16QAM	23155	1RB#0	4.96	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.59	13	PASS
Band12	10MHz	QPSK	23060	1RB#0	4.54	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.33	13	PASS
Band12	10MHz	QPSK	23095	1RB#0	4.39	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.26	13	PASS
Band12	10MHz	QPSK	23130	1RB#0	4.82	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.14	13	PASS
Band12	10MHz	16QAM	23060	1RB#0	5.39	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23095	1RB#0	5.05	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.07	13	PASS
Band12	10MHz	16QAM	23130	1RB#0	5.71	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.94	13	PASS

Test Graphs

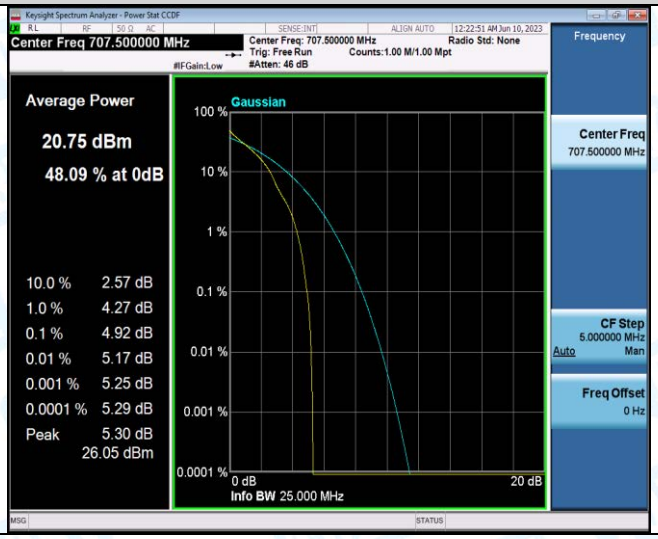
Band12-1.4MHz-QPSK-23017-1RB#0



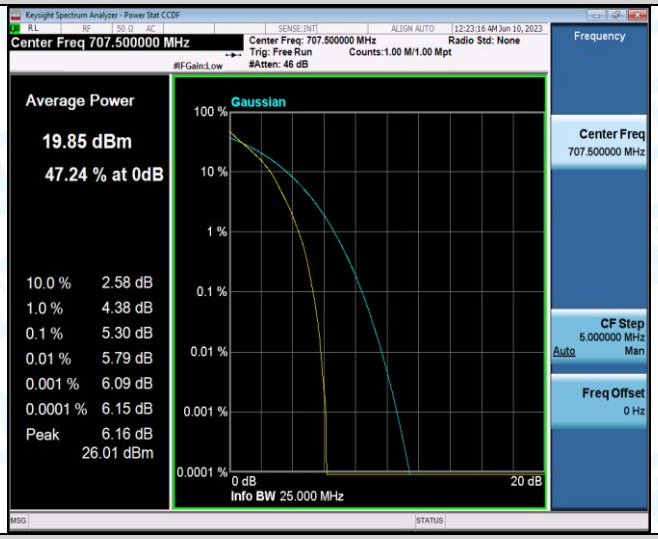
Band12-1.4MHz-QPSK-23017-6RB#0



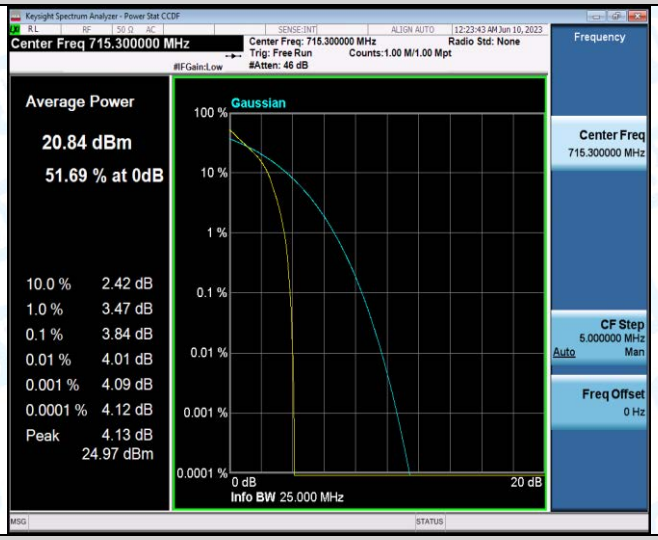
Band12-1.4MHz-QPSK-23095-1RB#0



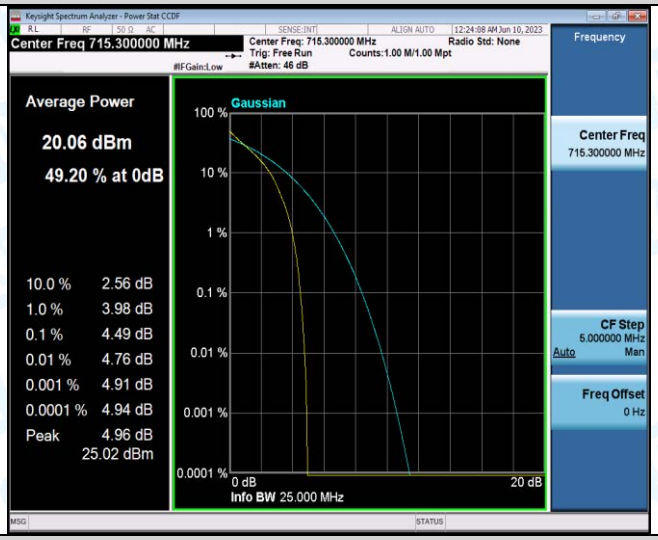
Band12-1.4MHz-QPSK-23095-6RB#0



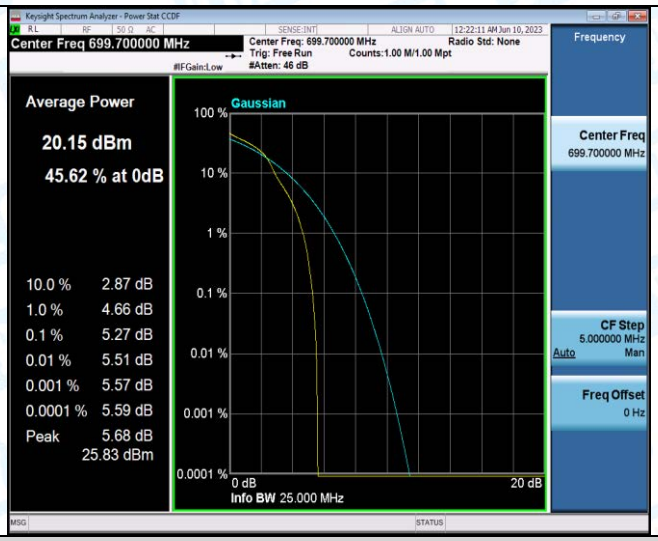
Band12-1.4MHz-QPSK-23173-1RB#0



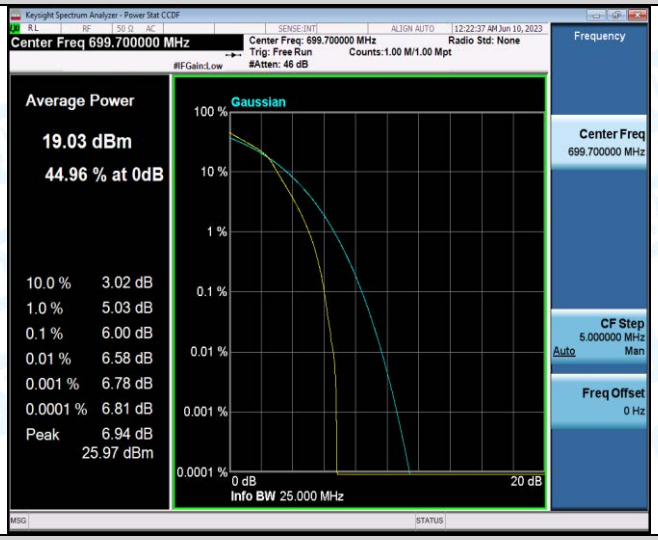
Band12-1.4MHz-QPSK-23173-6RB#0



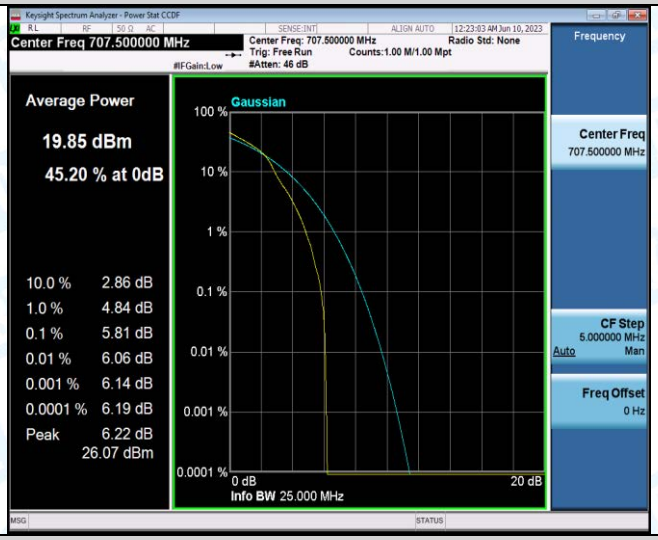
Band12-1.4MHz-16QAM-23017-1RB#0



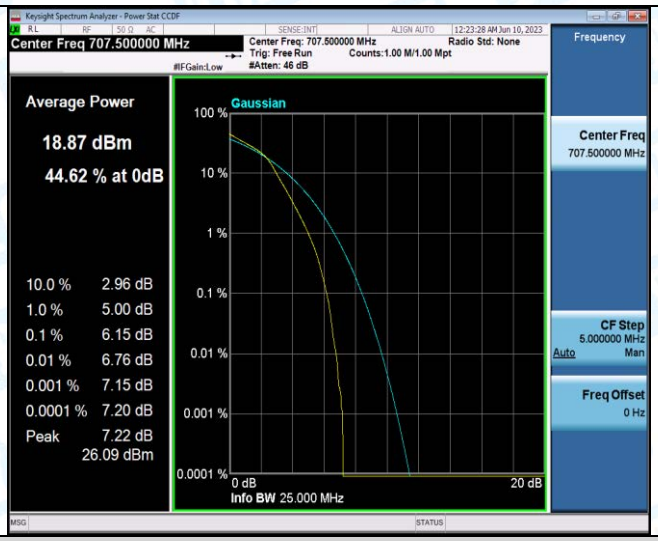
Band12-1.4MHz-16QAM-23017-6RB#0



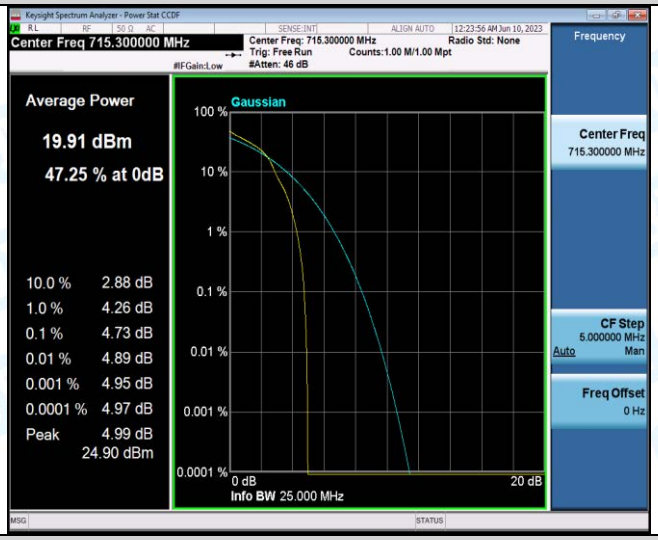
Band12-1.4MHz-16QAM-23095-1RB#0



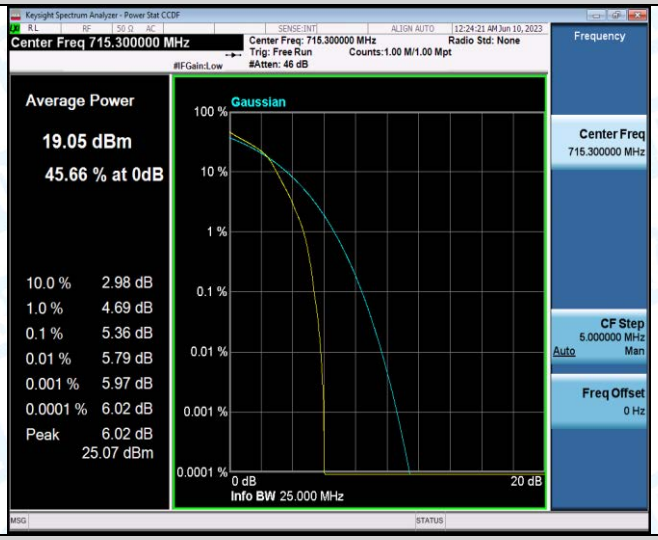
Band12-1.4MHz-16QAM-23095-6RB#0



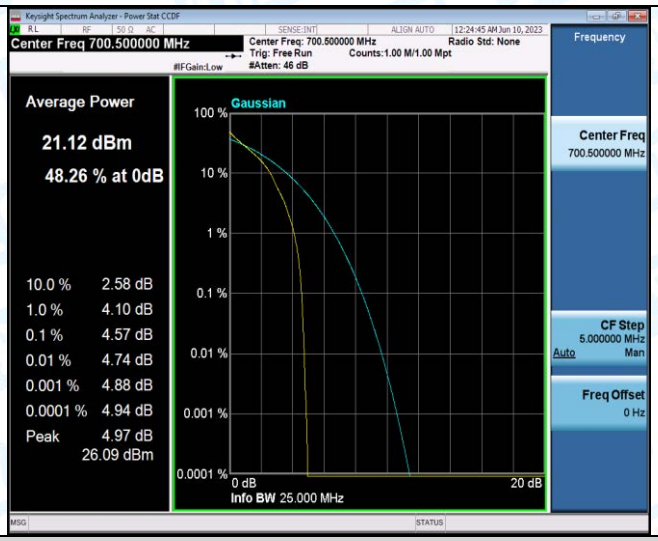
Band12-1.4MHz-16QAM-23173-1RB#0



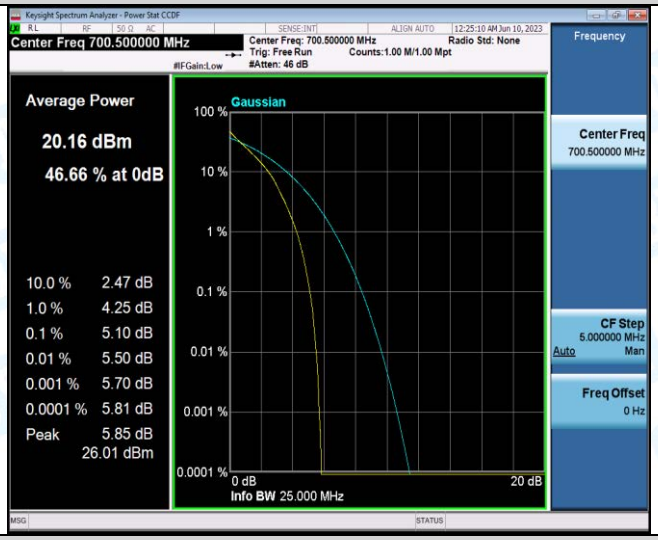
Band12-1.4MHz-16QAM-23173-6RB#0



Band12-3MHz-QPSK-23025-1RB#0



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



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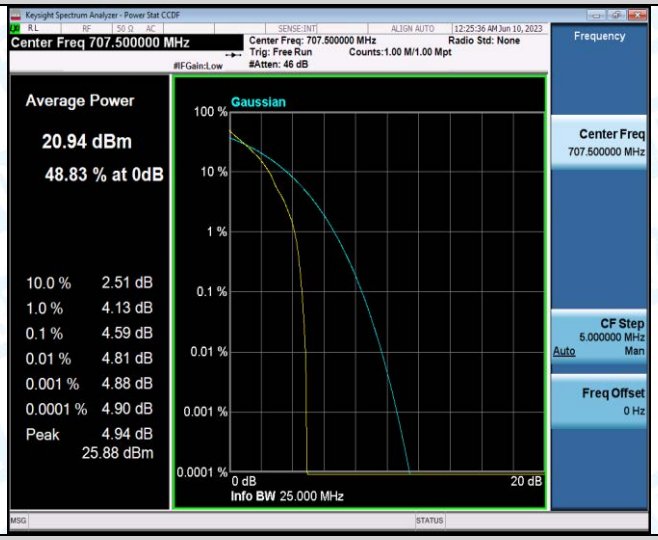

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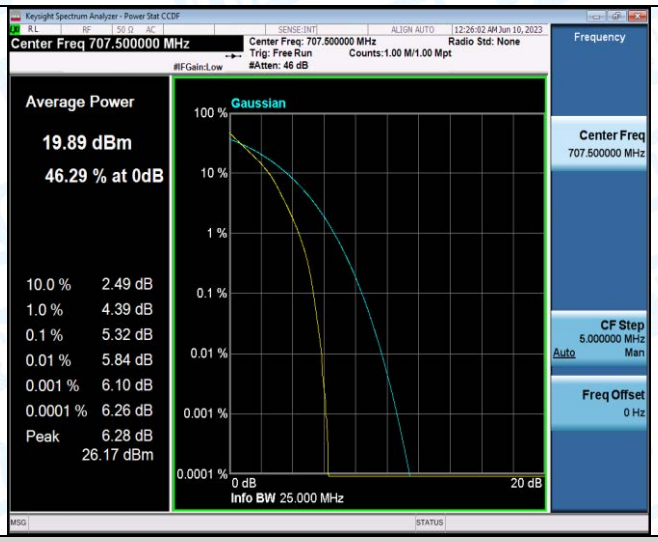

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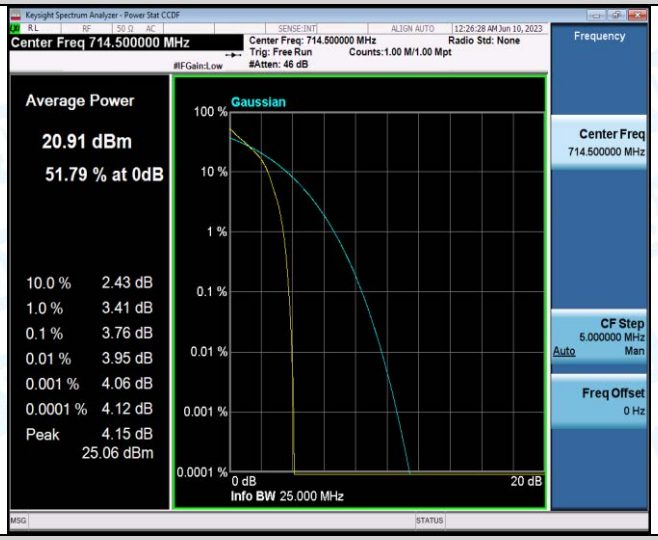

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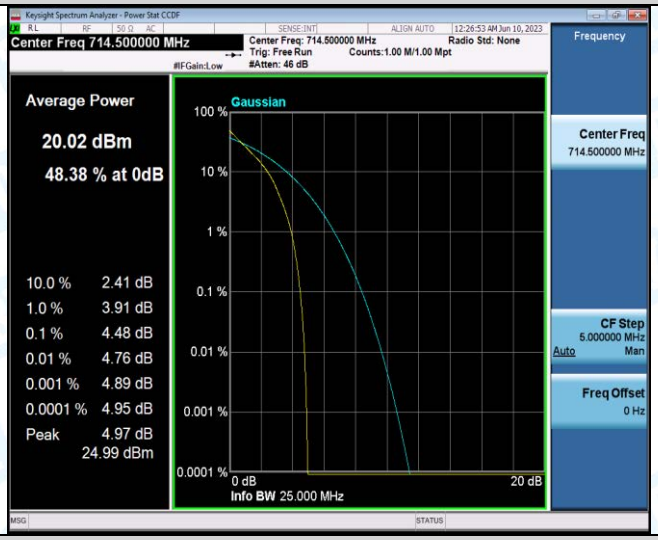

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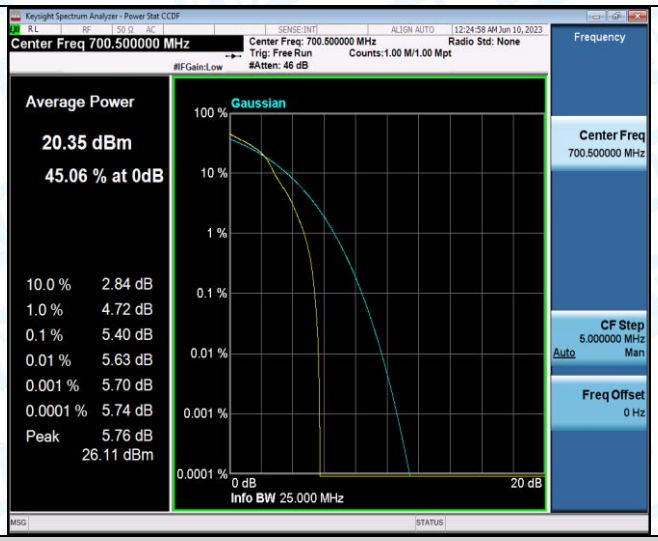

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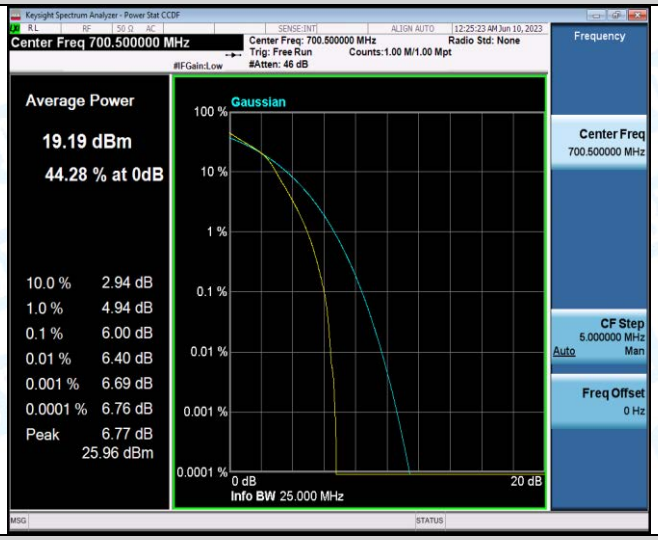

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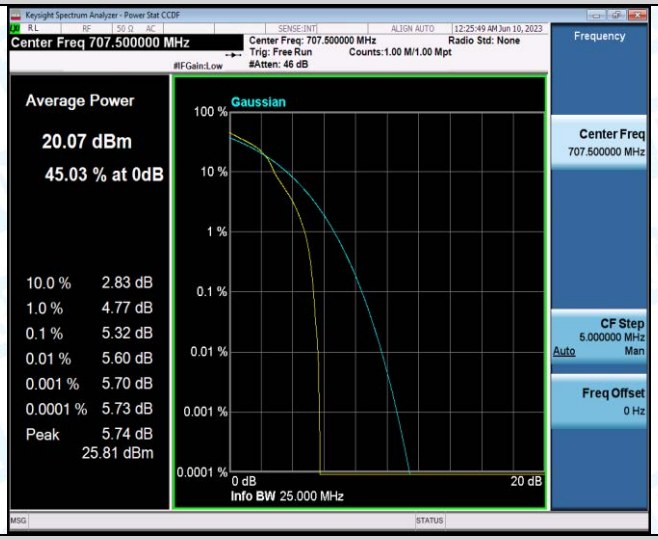

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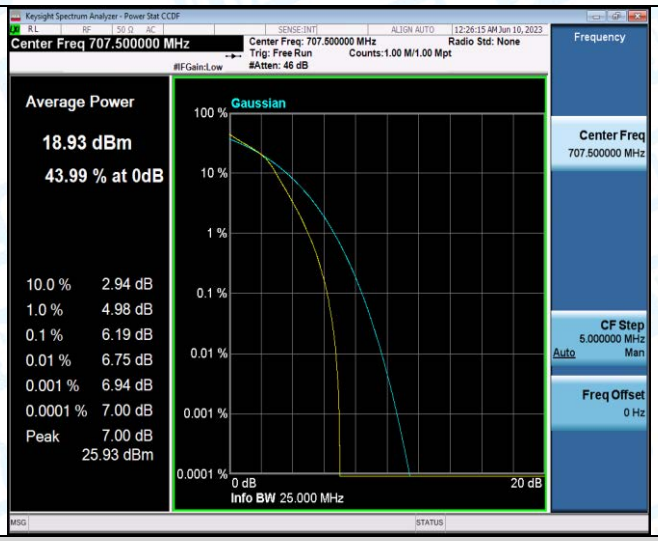

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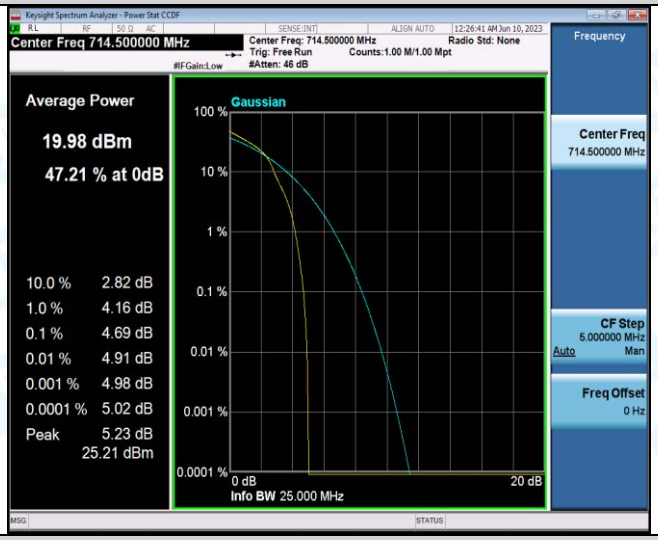

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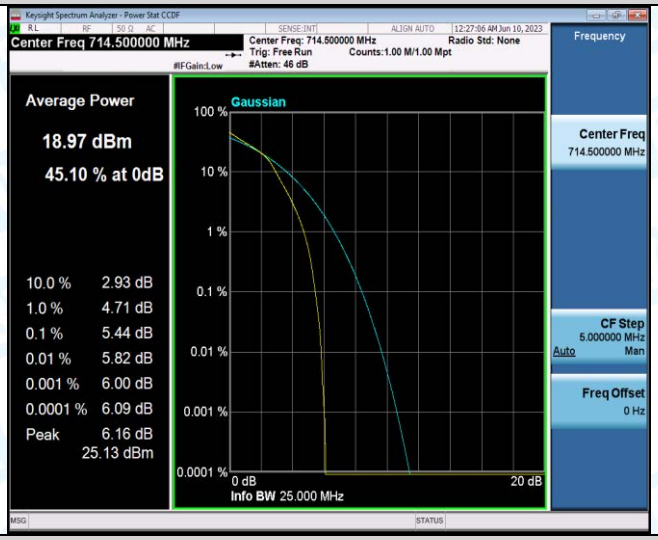

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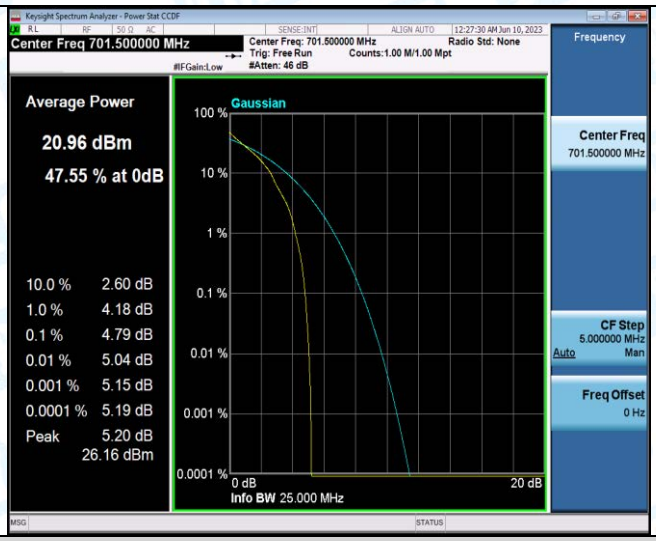

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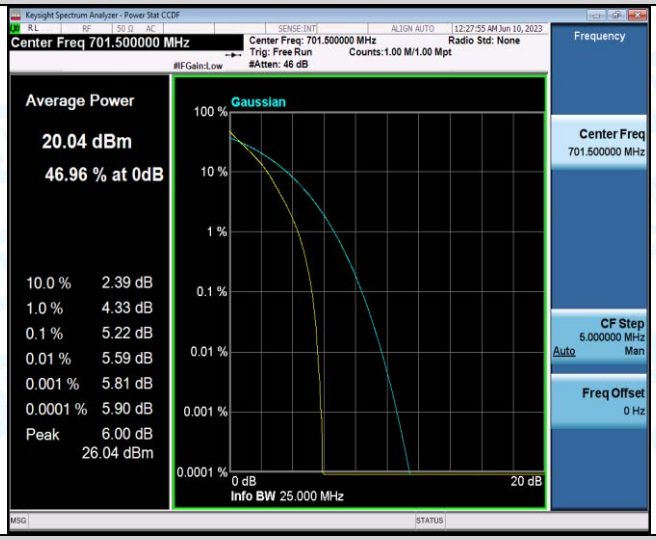

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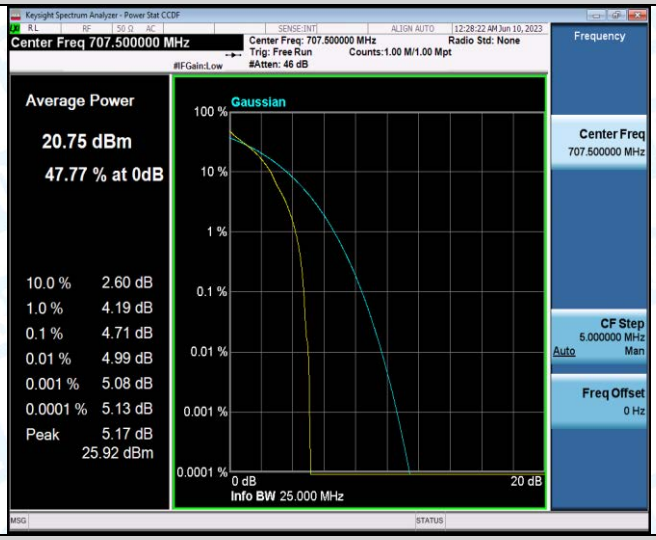

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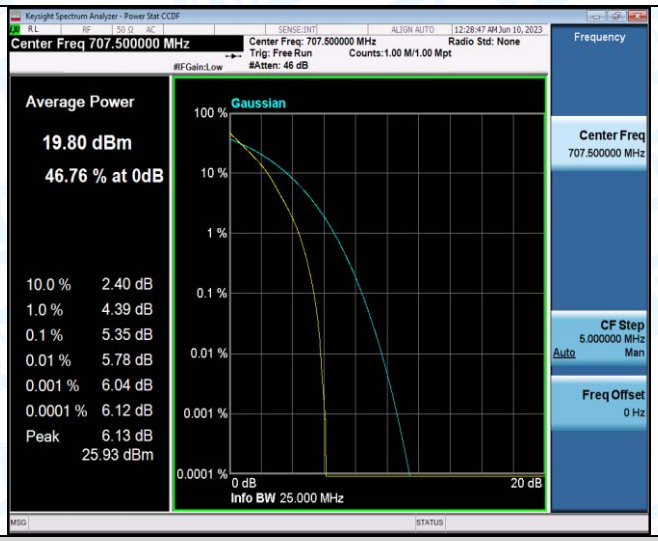

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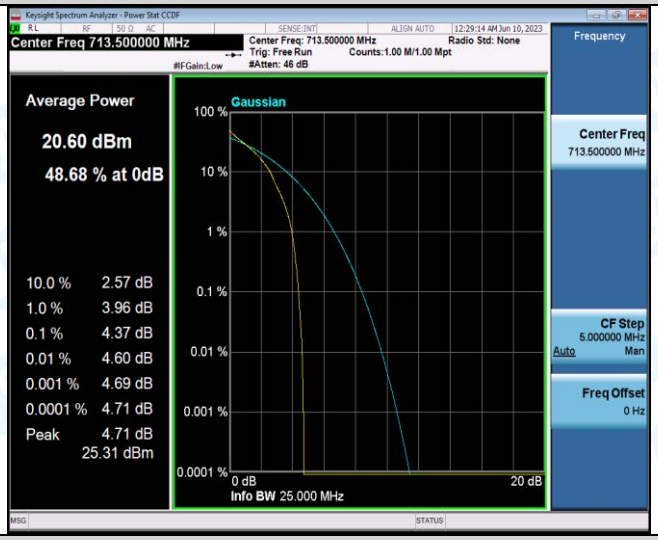

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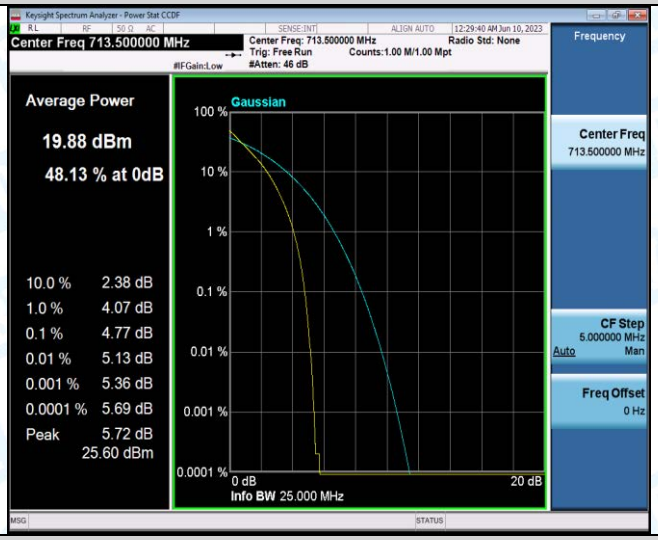

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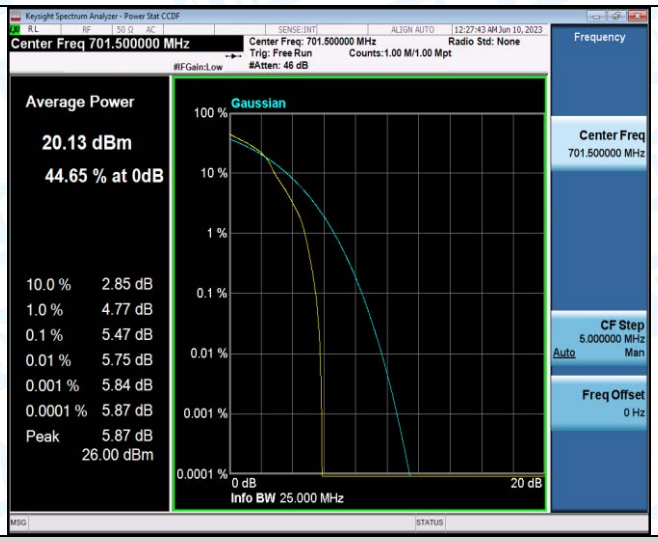

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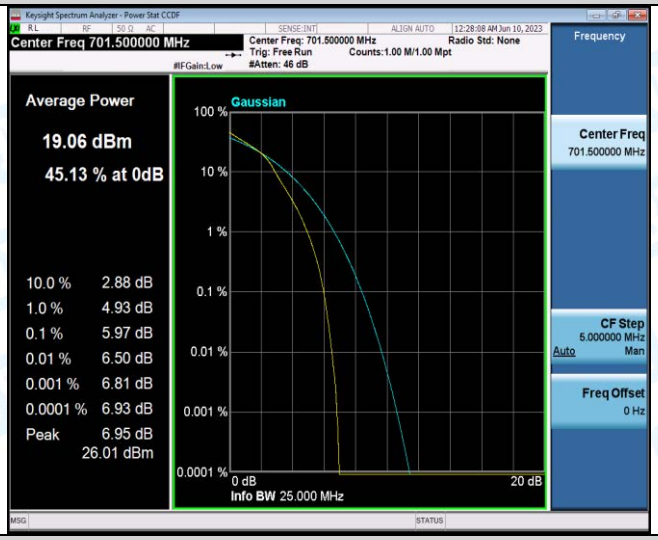

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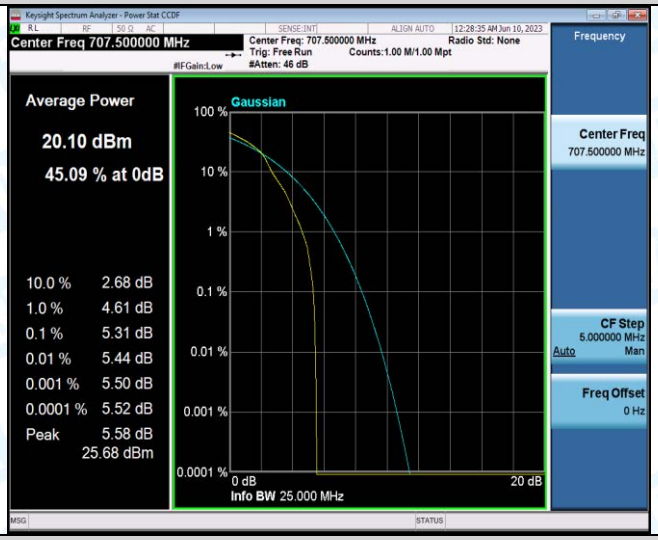

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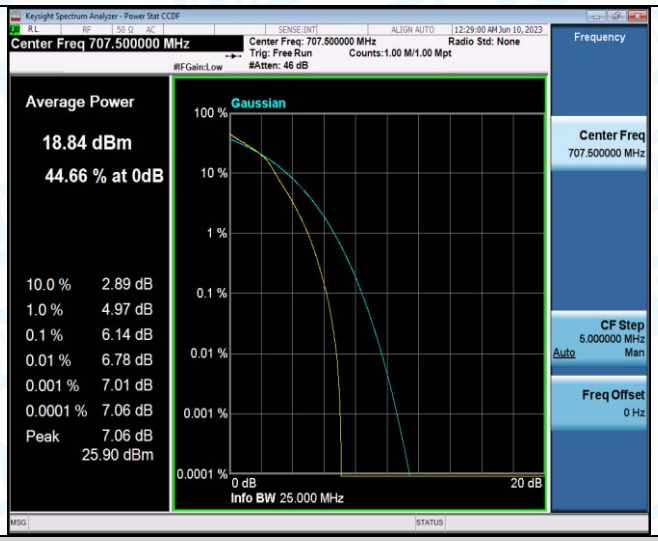

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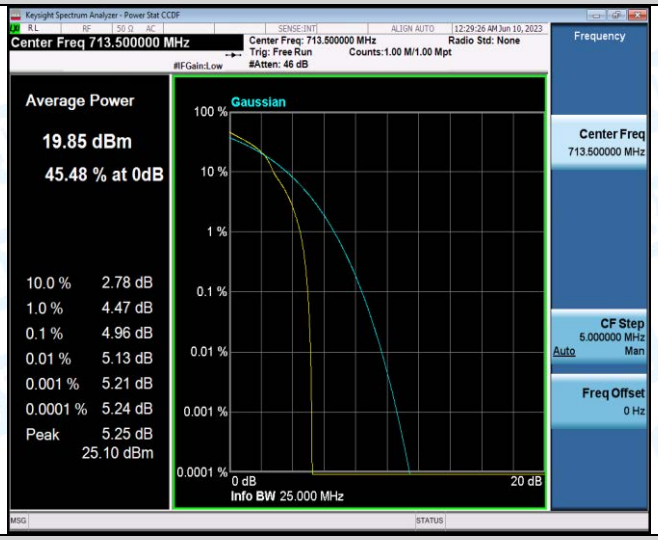

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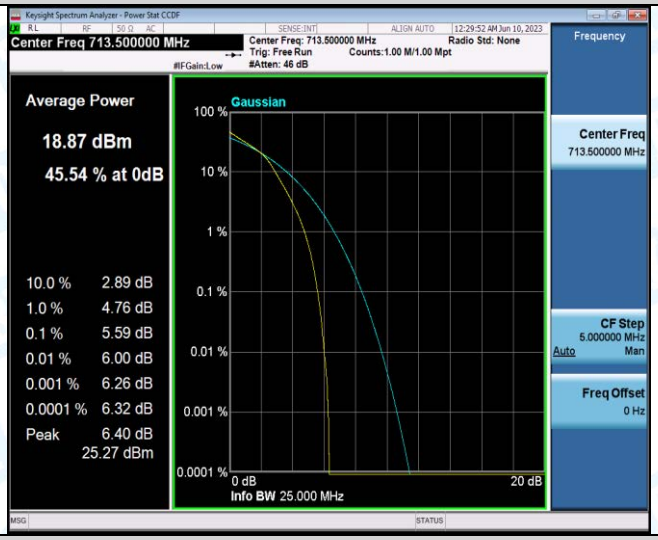

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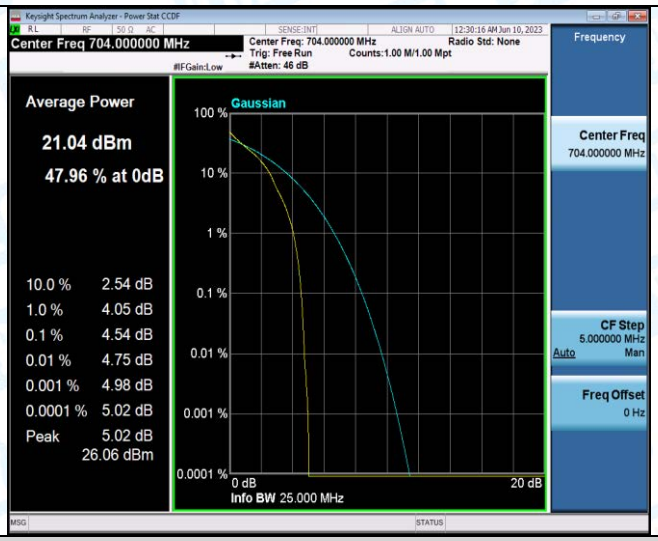

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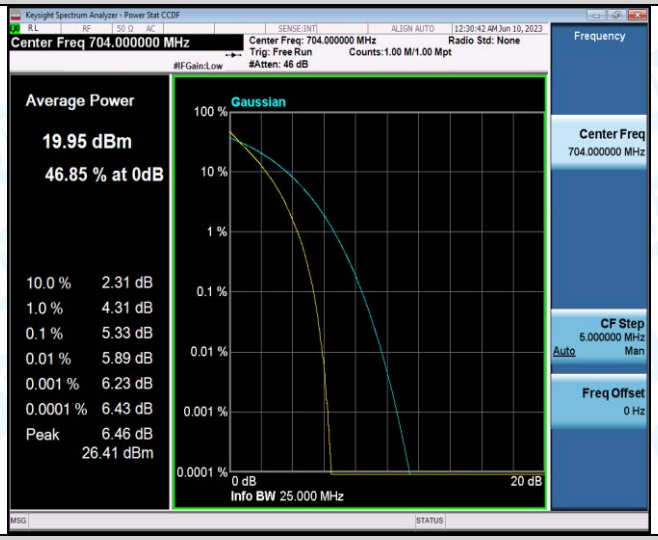

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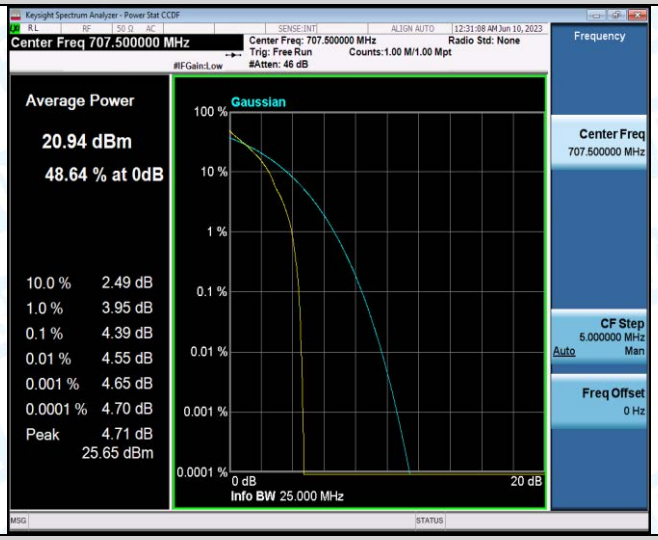

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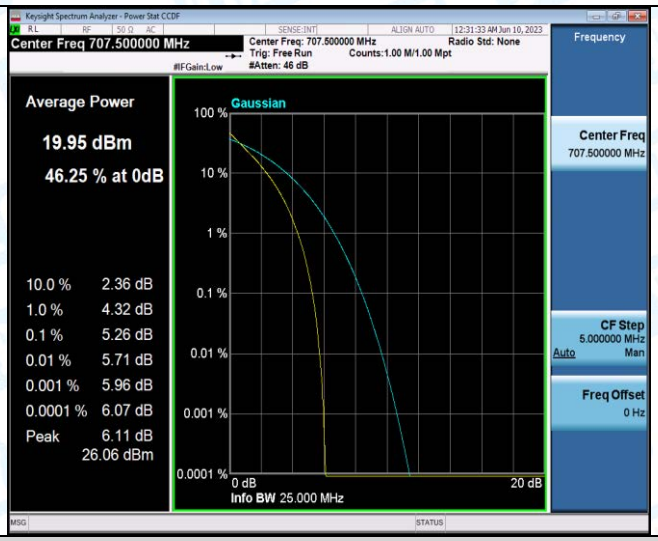

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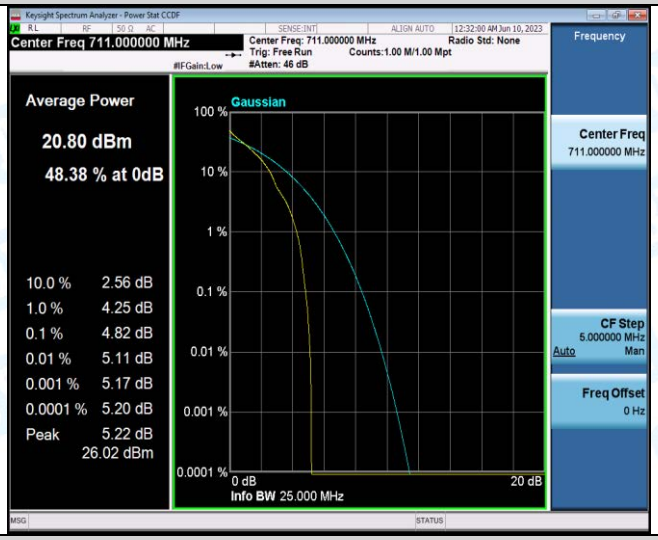

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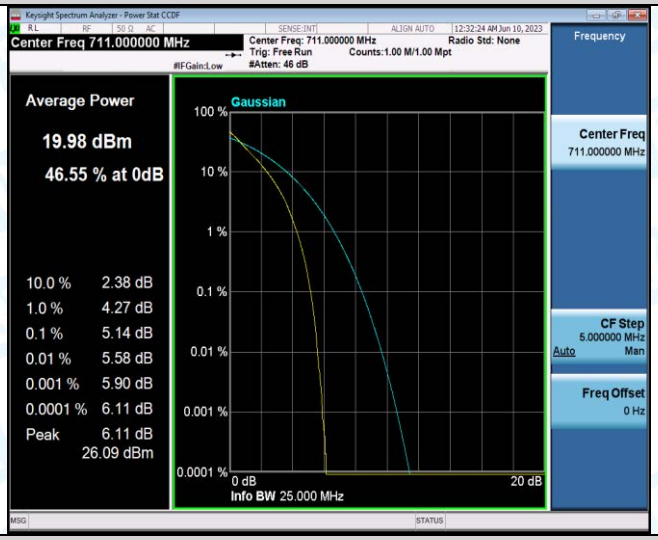

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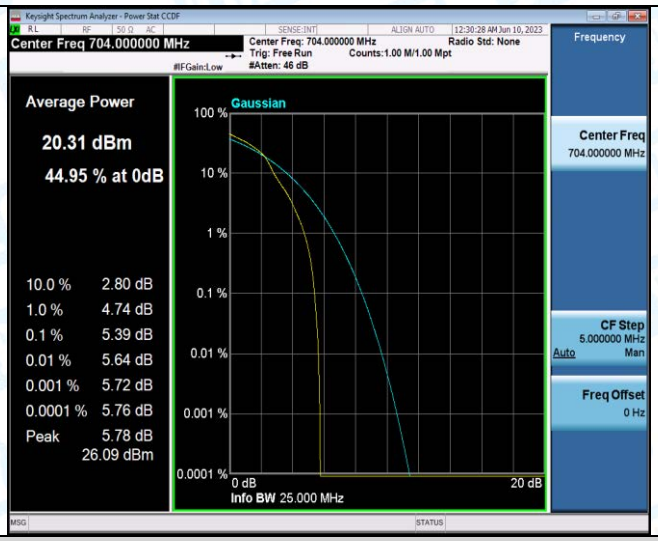

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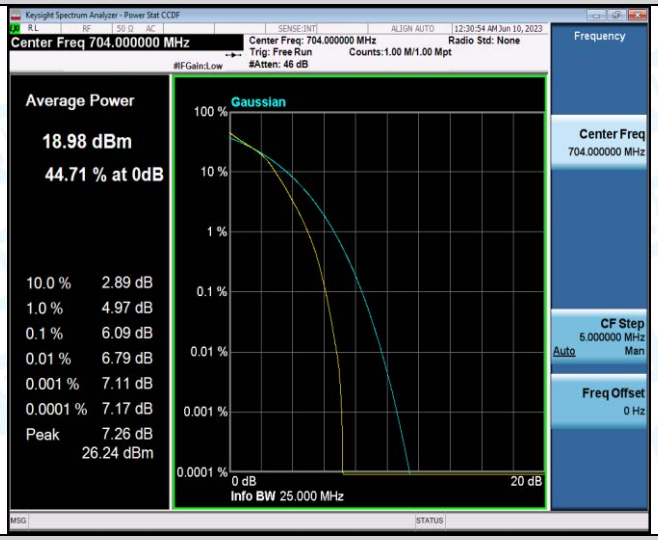

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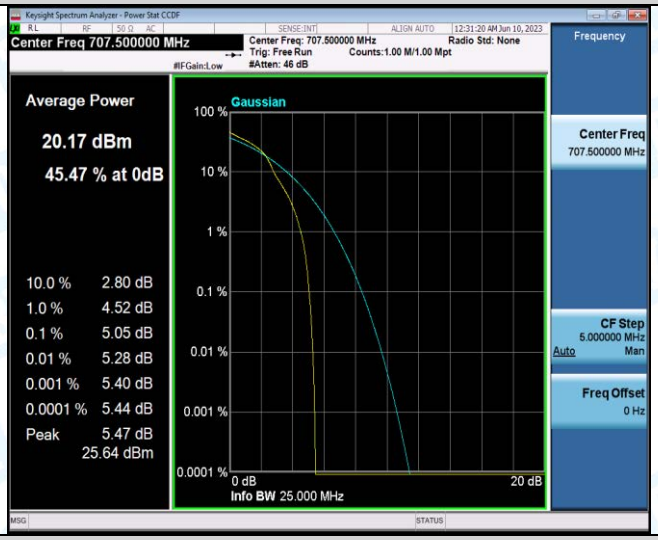

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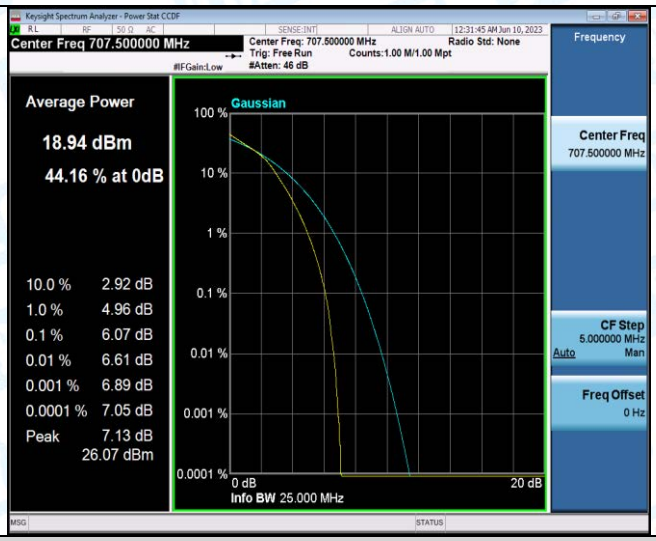

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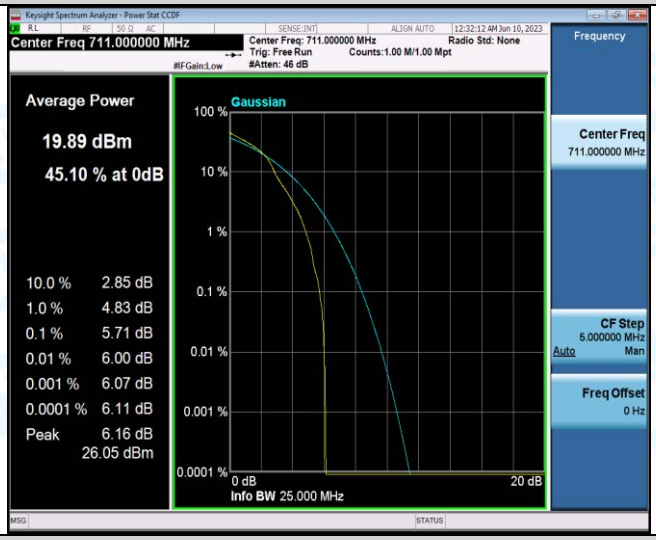
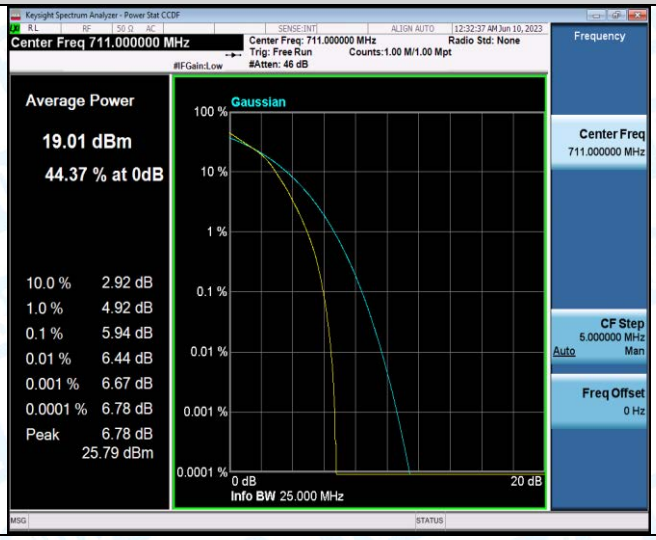


Band12-10MHz-16QAM-23130-50RB#0



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	1.1012	1.280	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0952	1.301	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0913	1.291	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0977	1.280	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0884	1.272	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0978	1.301	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6845	2.911	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.6904	2.899	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6848	2.901	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6833	2.896	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.6819	2.897	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6798	2.903	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5234	5.177	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5092	5.163	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5171	5.183	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5073	5.127	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5298	5.219	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5238	5.179	PASS
Band12	10MHz	QPSK	23060	50RB#0	9.0041	10.18	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9965	10.19	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0080	10.11	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9782	10.01	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9993	10.11	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.0187	10.15	PASS

Test Graphs

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

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

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

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

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

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

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

Band12-3MHz-QPSK-23095-15RB#0

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

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

Band12-3MHz-16QAM-23095-15RB#0

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

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

Band12-5MHz-QPSK-23095-25RB#0

Band12-5MHz-QPSK-23155-25RB#0

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

Band12-5MHz-16QAM-23095-25RB#0

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