

FCC LTE-Cat M1 Band4 Test Data

General Description of EUT	
Product Name:	Elevate Telematic Unit
Test Model:	p5
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Yan zhen ming
Note: For a more detailed features description, please refer to the report TBR-C-202307-0089-21 . The report only show the worst case data.	

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1. Conducted Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result (dBm)	Limit	Verdict
Band4	1.4MHz	QPSK	19957	1	0	Low	23.33	30	PASS
Band4	1.4MHz	QPSK	19957	1	5	Low	23.68	30	PASS
Band4	1.4MHz	QPSK	19957	6	0	Low	21.85	30	PASS
Band4	1.4MHz	QPSK	20175	1	0	Low	23.41	30	PASS
Band4	1.4MHz	QPSK	20175	1	5	Low	23.80	30	PASS
Band4	1.4MHz	QPSK	20175	6	0	Low	21.82	30	PASS
Band4	1.4MHz	QPSK	20393	1	0	High	24.16	30	PASS
Band4	1.4MHz	QPSK	20393	1	5	High	23.89	30	PASS
Band4	1.4MHz	QPSK	20393	6	0	High	21.93	30	PASS
Band4	1.4MHz	16QAM	19957	1	0	Low	22.92	30	PASS
Band4	1.4MHz	16QAM	19957	1	5	Low	23.18	30	PASS
Band4	1.4MHz	16QAM	19957	6	0	Low	21.85	30	PASS
Band4	1.4MHz	16QAM	20175	1	0	Low	22.76	30	PASS
Band4	1.4MHz	16QAM	20175	1	5	Low	23.30	30	PASS
Band4	1.4MHz	16QAM	20175	6	0	Low	21.82	30	PASS
Band4	1.4MHz	16QAM	20393	1	0	High	23.42	30	PASS
Band4	1.4MHz	16QAM	20393	1	5	High	23.45	30	PASS
Band4	1.4MHz	16QAM	20393	6	0	High	21.92	30	PASS
Band4	3MHz	QPSK	19965	1	0	Low	23.50	30	PASS
Band4	3MHz	QPSK	19965	1	5	Low	23.74	30	PASS
Band4	3MHz	QPSK	19965	6	0	Low	21.85	30	PASS
Band4	3MHz	QPSK	20175	1	0	Low	23.95	30	PASS
Band4	3MHz	QPSK	20175	1	5	Low	24.07	30	PASS
Band4	3MHz	QPSK	20175	6	0	Low	21.96	30	PASS
Band4	3MHz	QPSK	20385	1	0	High	23.83	30	PASS
Band4	3MHz	QPSK	20385	1	5	High	23.81	30	PASS
Band4	3MHz	QPSK	20385	6	0	High	21.94	30	PASS
Band4	3MHz	16QAM	19965	1	0	Low	23.24	30	PASS
Band4	3MHz	16QAM	19965	1	5	Low	23.10	30	PASS
Band4	3MHz	16QAM	19965	6	0	Low	21.85	30	PASS
Band4	3MHz	16QAM	20175	1	0	Low	22.42	30	PASS
Band4	3MHz	16QAM	20175	1	5	Low	22.44	30	PASS
Band4	3MHz	16QAM	20175	6	0	Low	21.95	30	PASS
Band4	3MHz	16QAM	20385	1	0	High	23.05	30	PASS
Band4	3MHz	16QAM	20385	1	5	High	23.48	30	PASS
Band4	3MHz	16QAM	20385	6	0	High	21.94	30	PASS
Band4	5MHz	QPSK	19975	1	0	Low	23.78	30	PASS
Band4	5MHz	QPSK	19975	1	5	Low	23.90	30	PASS
Band4	5MHz	QPSK	19975	6	0	Low	22.89	30	PASS

Band4	5MHz	QPSK	20175	1	0	Low	23.97	30	PASS
Band4	5MHz	QPSK	20175	1	5	Low	24.02	30	PASS
Band4	5MHz	QPSK	20175	6	0	Low	23.01	30	PASS
Band4	5MHz	QPSK	20375	1	0	High	24.22	30	PASS
Band4	5MHz	QPSK	20375	1	5	High	24.20	30	PASS
Band4	5MHz	QPSK	20375	6	0	High	23.09	30	PASS
Band4	5MHz	16QAM	19975	1	0	Low	24.47	30	PASS
Band4	5MHz	16QAM	19975	1	5	Low	24.69	30	PASS
Band4	5MHz	16QAM	19975	6	0	Low	22.88	30	PASS
Band4	5MHz	16QAM	20175	1	0	Low	24.61	30	PASS
Band4	5MHz	16QAM	20175	1	5	Low	24.70	30	PASS
Band4	5MHz	16QAM	20175	6	0	Low	23.03	30	PASS
Band4	5MHz	16QAM	20375	1	0	High	23.67	30	PASS
Band4	5MHz	16QAM	20375	1	5	High	23.87	30	PASS
Band4	5MHz	16QAM	20375	6	0	High	23.10	30	PASS
Band4	10MHz	QPSK	20000	1	0	Low	23.84	30	PASS
Band4	10MHz	QPSK	20000	1	5	Low	23.99	30	PASS
Band4	10MHz	QPSK	20000	6	0	Low	22.95	30	PASS
Band4	10MHz	QPSK	20175	1	0	Low	23.85	30	PASS
Band4	10MHz	QPSK	20175	1	5	Low	23.98	30	PASS
Band4	10MHz	QPSK	20175	6	0	Low	22.97	30	PASS
Band4	10MHz	QPSK	20350	1	0	High	23.95	30	PASS
Band4	10MHz	QPSK	20350	1	5	High	24.02	30	PASS
Band4	10MHz	QPSK	20350	6	0	High	23.25	30	PASS
Band4	10MHz	16QAM	20000	1	0	Low	24.48	30	PASS
Band4	10MHz	16QAM	20000	1	5	Low	24.62	30	PASS
Band4	10MHz	16QAM	20000	6	0	Low	22.95	30	PASS
Band4	10MHz	16QAM	20175	1	0	Low	24.18	30	PASS
Band4	10MHz	16QAM	20175	1	5	Low	24.67	30	PASS
Band4	10MHz	16QAM	20175	6	0	Low	22.97	30	PASS
Band4	10MHz	16QAM	20350	1	0	High	24.17	30	PASS
Band4	10MHz	16QAM	20350	1	5	High	24.32	30	PASS
Band4	10MHz	16QAM	20350	6	0	High	23.16	30	PASS
Band4	15MHz	QPSK	20025	1	0	Low	23.83	30	PASS
Band4	15MHz	QPSK	20025	1	5	Low	23.92	30	PASS
Band4	15MHz	QPSK	20025	6	0	Low	23.85	30	PASS
Band4	15MHz	QPSK	20175	1	0	Low	23.56	30	PASS
Band4	15MHz	QPSK	20175	1	5	Low	23.85	30	PASS
Band4	15MHz	QPSK	20175	6	0	Low	23.87	30	PASS
Band4	15MHz	QPSK	20325	1	0	High	23.99	30	PASS
Band4	15MHz	QPSK	20325	1	5	High	24.03	30	PASS
Band4	15MHz	QPSK	20325	6	0	High	24.02	30	PASS
Band4	15MHz	16QAM	20025	1	0	Low	24.49	30	PASS
Band4	15MHz	16QAM	20025	1	5	Low	24.83	30	PASS

Band4	15MHz	16QAM	20025	6	0	Low	23.88	30	PASS
Band4	15MHz	16QAM	20175	1	0	Low	24.55	30	PASS
Band4	15MHz	16QAM	20175	1	5	Low	24.72	30	PASS
Band4	15MHz	16QAM	20175	6	0	Low	23.87	30	PASS
Band4	15MHz	16QAM	20325	1	0	High	24.20	30	PASS
Band4	15MHz	16QAM	20325	1	5	High	24.18	30	PASS
Band4	15MHz	16QAM	20325	6	0	High	24.01	30	PASS
Band4	20MHz	QPSK	20050	1	0	Low	23.82	30	PASS
Band4	20MHz	QPSK	20050	1	5	Low	23.94	30	PASS
Band4	20MHz	QPSK	20050	6	0	Low	23.86	30	PASS
Band4	20MHz	QPSK	20175	1	0	Low	23.78	30	PASS
Band4	20MHz	QPSK	20175	1	5	Low	23.79	30	PASS
Band4	20MHz	QPSK	20175	6	0	Low	24.01	30	PASS
Band4	20MHz	QPSK	20300	1	0	High	24.30	30	PASS
Band4	20MHz	QPSK	20300	1	5	High	24.21	30	PASS
Band4	20MHz	QPSK	20300	6	0	High	24.12	30	PASS
Band4	20MHz	16QAM	20050	1	0	Low	24.48	30	PASS
Band4	20MHz	16QAM	20050	1	5	Low	24.51	30	PASS
Band4	20MHz	16QAM	20050	6	0	Low	23.94	30	PASS
Band4	20MHz	16QAM	20175	1	0	Low	24.75	30	PASS
Band4	20MHz	16QAM	20175	1	5	Low	24.77	30	PASS
Band4	20MHz	16QAM	20175	6	0	Low	24.01	30	PASS
Band4	20MHz	16QAM	20300	1	0	High	23.67	30	PASS
Band4	20MHz	16QAM	20300	1	5	High	23.86	30	PASS
Band4	20MHz	16QAM	20300	6	0	High	24.12	30	PASS

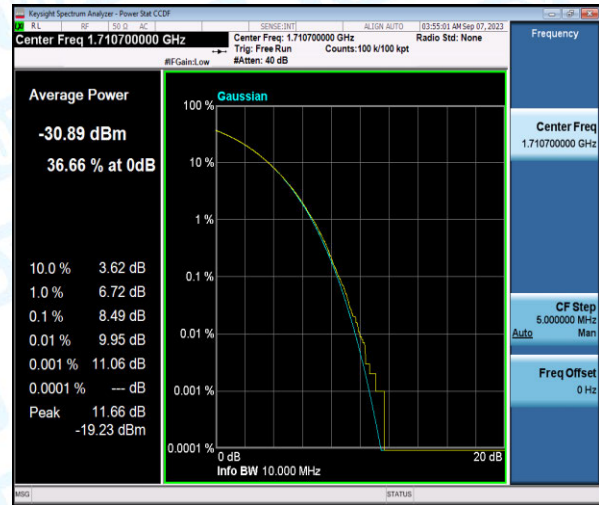
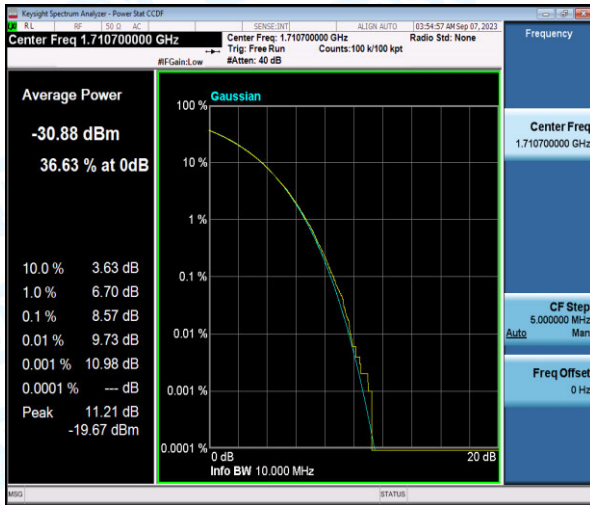
2. Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	8.57	<=13	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	8.49	<=13	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	8.52	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	8.51	<=13	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	8.62	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	8.57	<=13	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	8.50	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	8.47	<=13	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	8.52	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	8.58	<=13	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	8.55	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	8.62	<=13	PASS
Band4	3MHz	19965	QPSK	1	0	Low	11.77	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	Low	9.19	<=13	PASS
Band4	3MHz	20175	QPSK	1	0	Low	8.63	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	8.59	<=13	PASS
Band4	3MHz	20385	QPSK	1	0	High	8.16	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	High	9.93	<=13	PASS
Band4	3MHz	19965	16QAM	1	0	Low	8.41	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	Low	8.16	<=13	PASS
Band4	3MHz	20175	16QAM	1	0	Low	8.58	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	Low	8.61	<=13	PASS
Band4	3MHz	20385	16QAM	1	0	High	9.16	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	High	8.51	<=13	PASS
Band4	5MHz	19975	QPSK	1	0	Low	8.94	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	Low	8.57	<=13	PASS
Band4	5MHz	20175	QPSK	1	0	Low	8.54	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	8.65	<=13	PASS
Band4	5MHz	20375	QPSK	1	0	High	8.63	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	High	8.60	<=13	PASS
Band4	5MHz	19975	16QAM	1	0	Low	9.90	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	9.52	<=13	PASS
Band4	5MHz	20175	16QAM	1	0	Low	8.39	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	8.62	<=13	PASS
Band4	5MHz	20375	16QAM	1	0	High	8.61	<=13	PASS
Band4	5MHz	20375	16QAM	6	0	High	8.66	<=13	PASS
Band4	10MHz	20000	QPSK	1	0	Low	8.71	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	Low	8.53	<=13	PASS
Band4	10MHz	20175	QPSK	1	0	Low	7.64	<=13	PASS

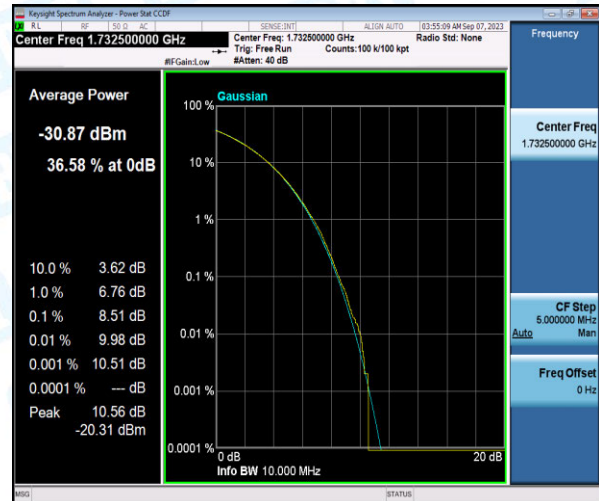
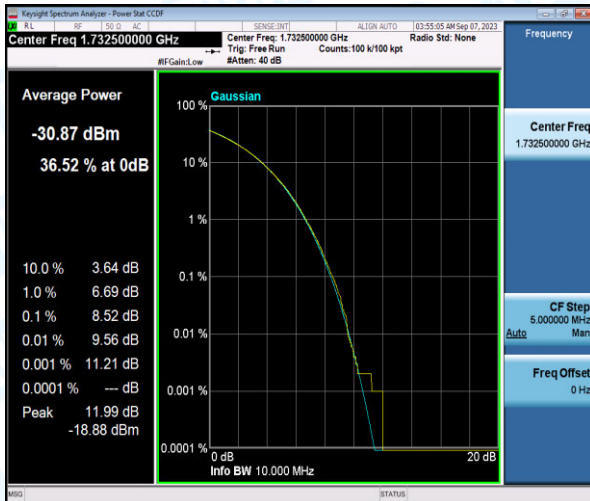
Band4	10MHz	20175	QPSK	6	0	Low	9.58	<=13	PASS
Band4	10MHz	20350	QPSK	1	0	High	9.35	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	High	8.48	<=13	PASS
Band4	10MHz	20000	16QAM	1	0	Low	8.48	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	Low	8.57	<=13	PASS
Band4	10MHz	20175	16QAM	1	0	Low	12.60	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	6.33	<=13	PASS
Band4	10MHz	20350	16QAM	1	0	High	9.69	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	High	10.27	<=13	PASS
Band4	15MHz	20025	QPSK	1	0	Low	9.12	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	Low	7.09	<=13	PASS
Band4	15MHz	20175	QPSK	1	0	Low	8.55	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	8.60	<=13	PASS
Band4	15MHz	20325	QPSK	1	0	High	8.70	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	High	12.46	<=13	PASS
Band4	15MHz	20025	16QAM	1	0	Low	12.63	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	Low	6.36	<=13	PASS
Band4	15MHz	20175	16QAM	1	0	Low	8.63	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	Low	8.49	<=13	PASS
Band4	15MHz	20325	16QAM	1	0	High	8.40	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	High	11.96	<=13	PASS
Band4	20MHz	20050	QPSK	1	0	Low	8.54	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	Low	8.59	<=13	PASS
Band4	20MHz	20175	QPSK	1	0	Low	8.03	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	11.28	<=13	PASS
Band4	20MHz	20300	QPSK	1	0	High	8.48	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	High	8.61	<=13	PASS
Band4	20MHz	20050	16QAM	1	0	Low	8.53	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	Low	8.55	<=13	PASS
Band4	20MHz	20175	16QAM	1	0	Low	12.45	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	10.32	<=13	PASS
Band4	20MHz	20300	16QAM	1	0	High	8.59	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	High	8.47	<=13	PASS

Test Graphs



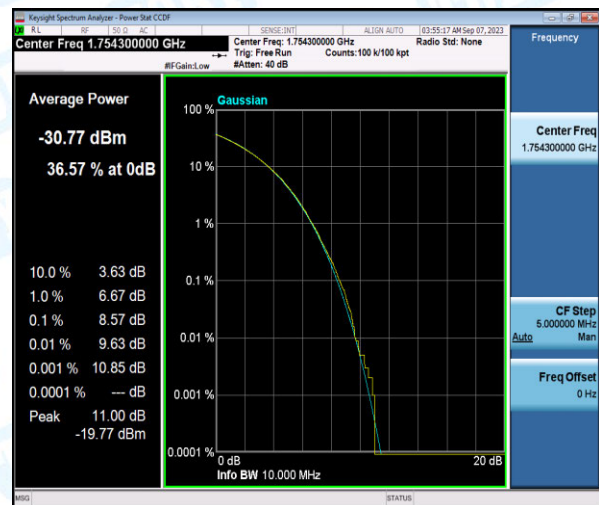
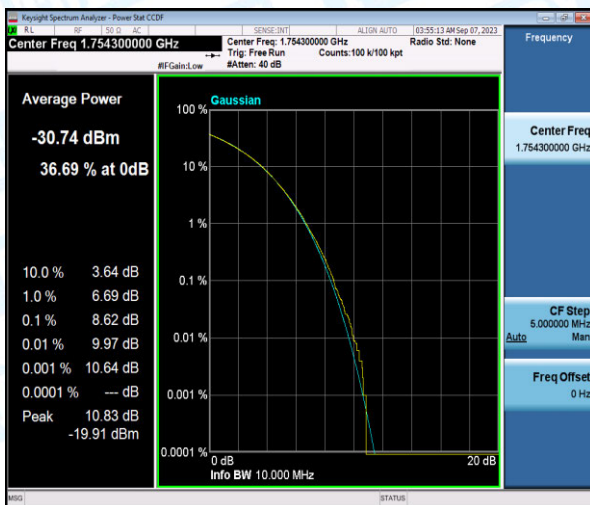
Band4-1.4MHz-QPSK-19957-1-0-Low-8.57-<=13-PASS

Band4-1.4MHz-QPSK-19957-6-0-Low-8.49-<=13-PASS



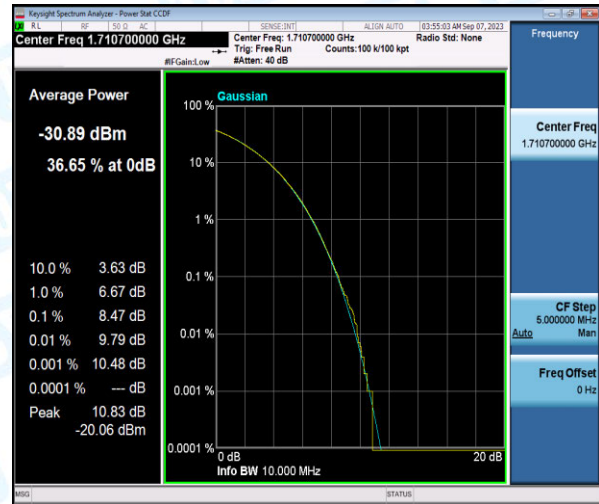
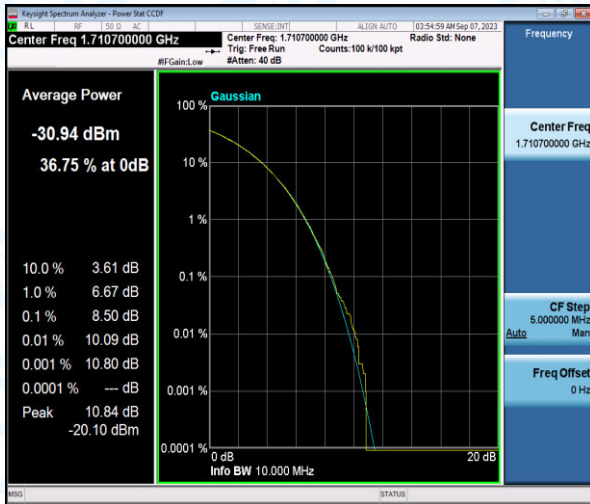
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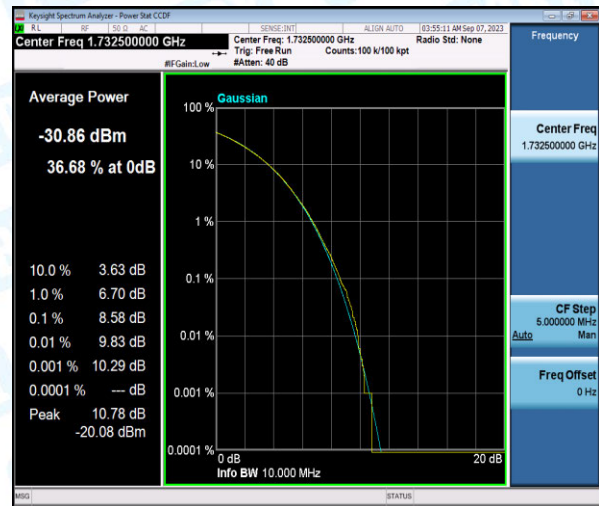
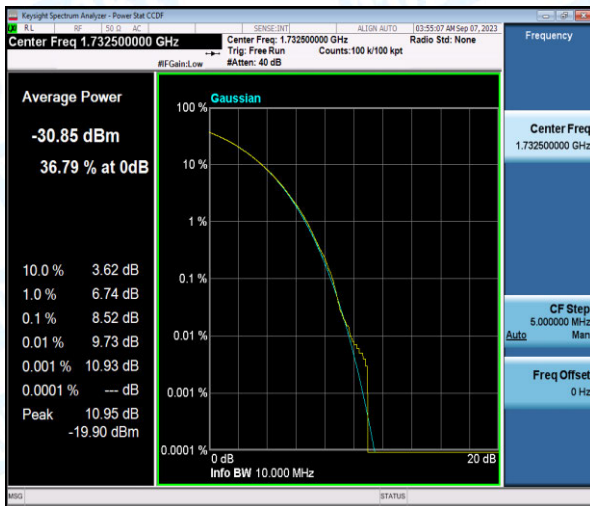
Band4-1.4MHz-QPSK-20393-1-0-High-8.62-<=13-PASS

Band4-1.4MHz-QPSK-20393-6-0-High-8.57-<=13-PASS



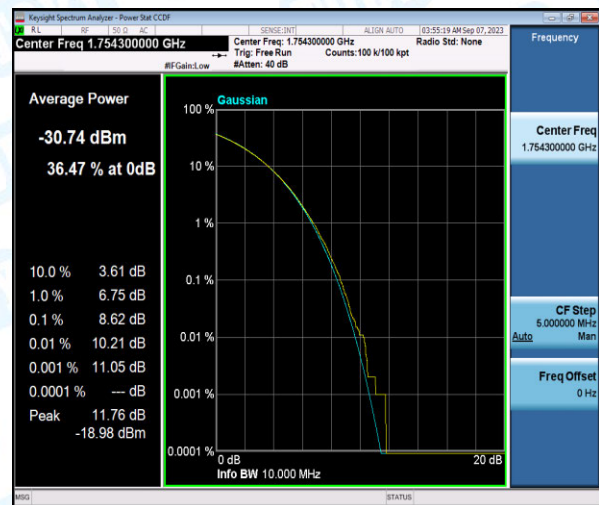
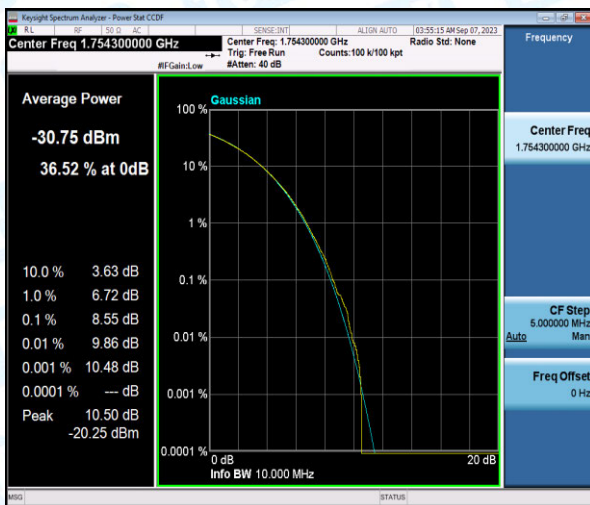
Band4-1.4MHz-16QAM-19957-1-0-Low-8.50-<=13-PASS

Band4-1.4MHz-16QAM-19957-6-0-Low-8.47-<=13-PASS



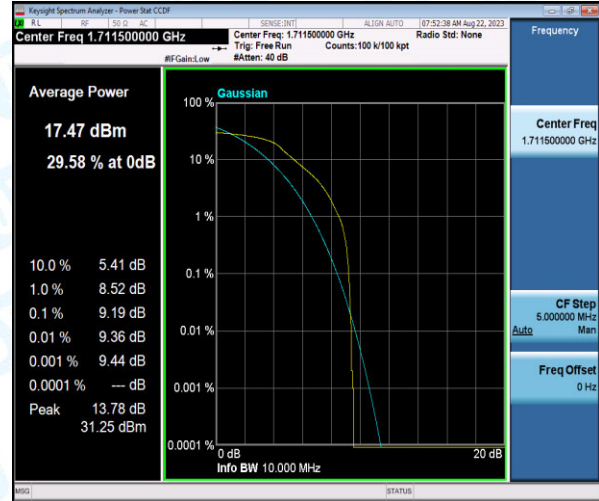
Band4-1.4MHz-16QAM-20175-1-0-Low-8.52-<=13-PASS

Band4-1.4MHz-16QAM-20175-6-0-Low-8.58-<=13-PASS



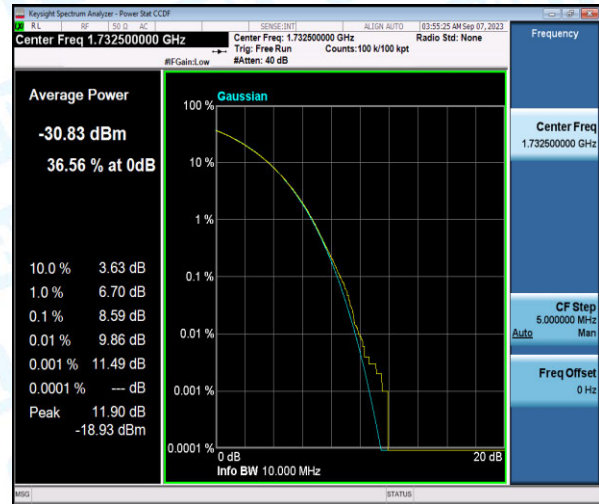
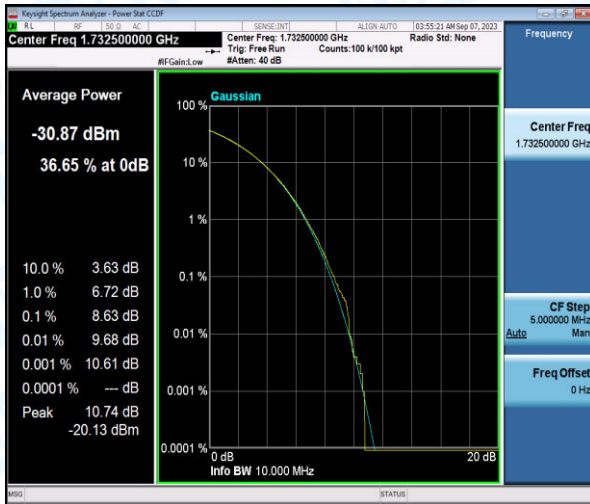
Band4-1.4MHz-16QAM-20393-1-0-High-8.55-<=13-PASS

Band4-1.4MHz-16QAM-20393-6-0-High-8.62-<=13-PASS



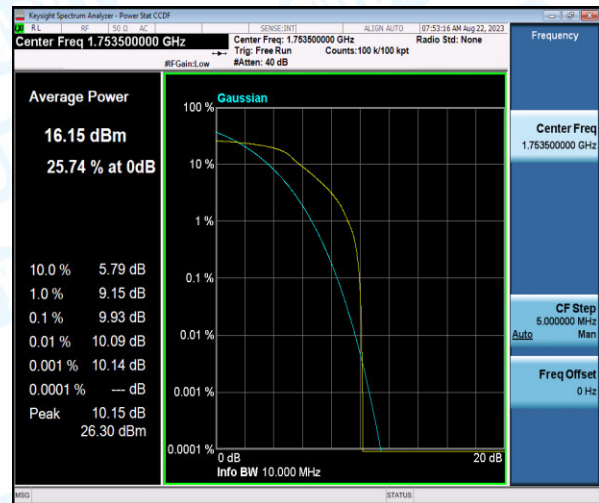
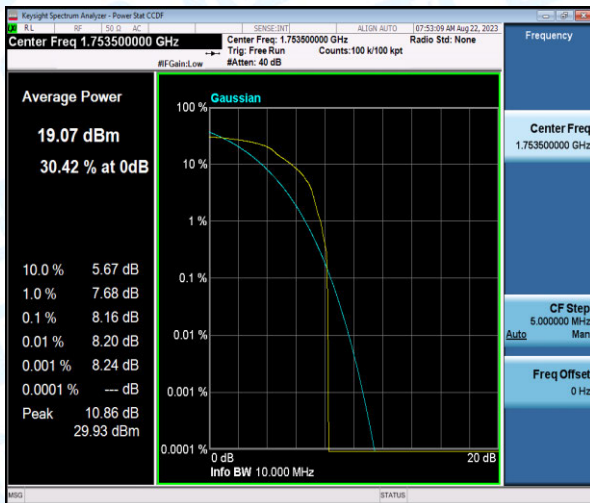
Band4-3MHz-QPSK-19965-1-0-Low-11.77-<=13-PASS

Band4-3MHz-QPSK-19965-6-0-Low-9.19-<=13-PASS



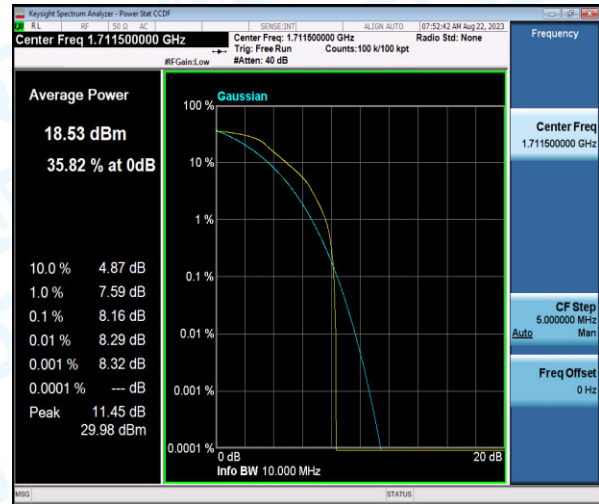
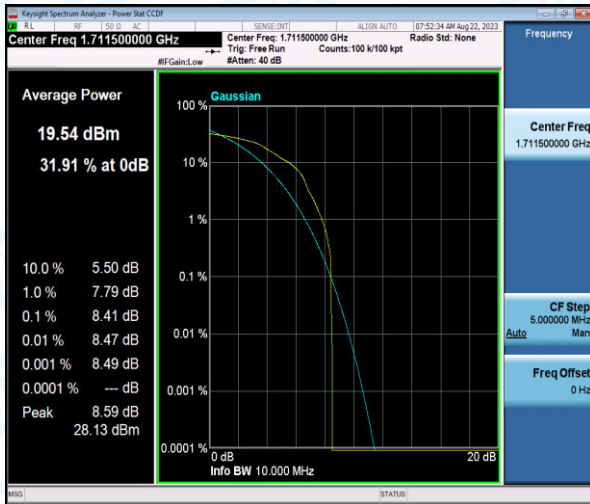
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Band4-3MHz-QPSK-20175-6-0-Low-8.59-<=13-PASS



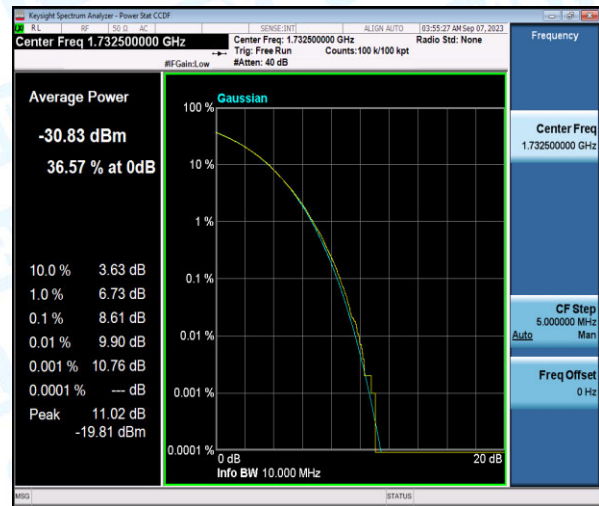
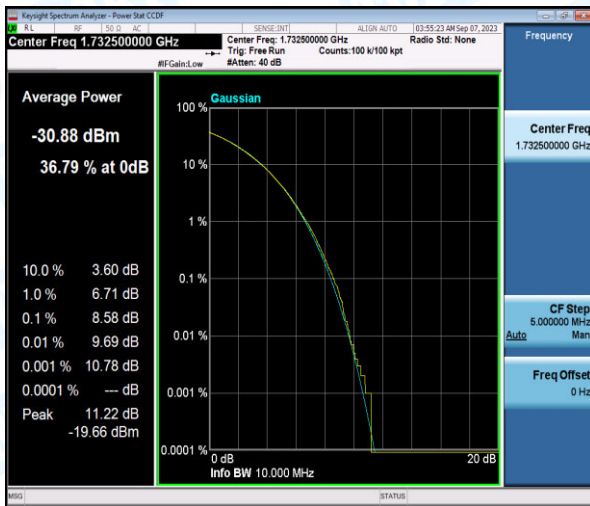
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Band4-3MHz-QPSK-20385-6-0-High-9.93-<=13-PASS



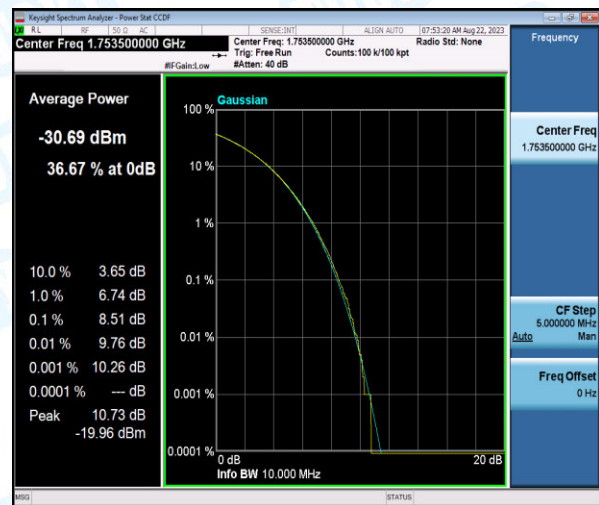
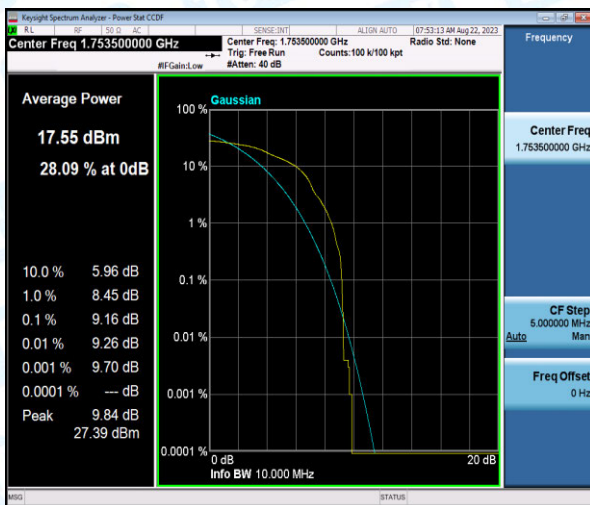
Band4-3MHz-16QAM-19965-1-0-Low-8.41<=13-PASS

Band4-3MHz-16QAM-19965-6-0-Low-8.16<=13-PASS



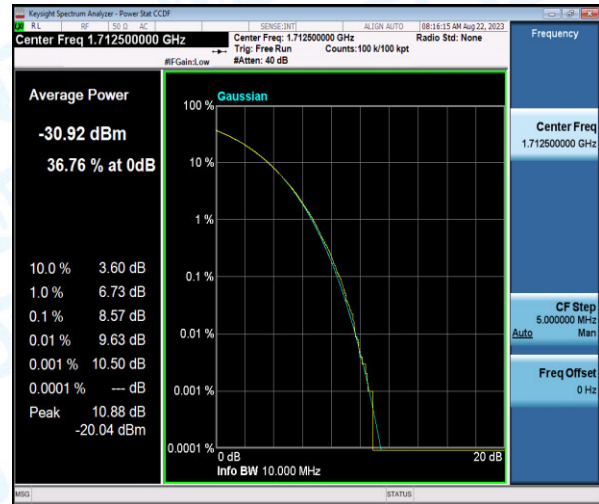
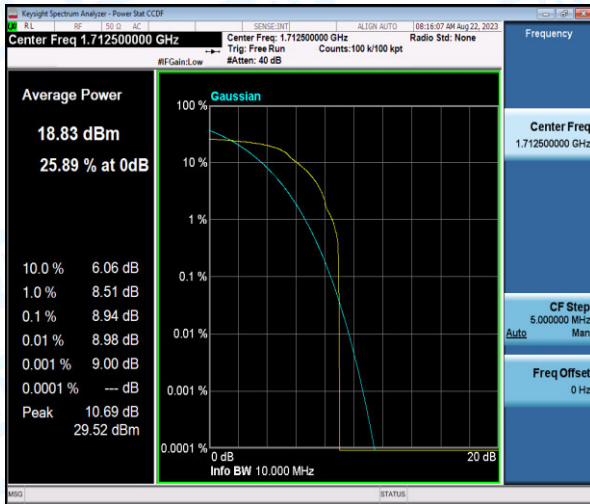
Band4-3MHz-16QAM-20175-1-0-Low-8.58<=13-PASS

Band4-3MHz-16QAM-20175-6-0-Low-8.61<=13-PASS



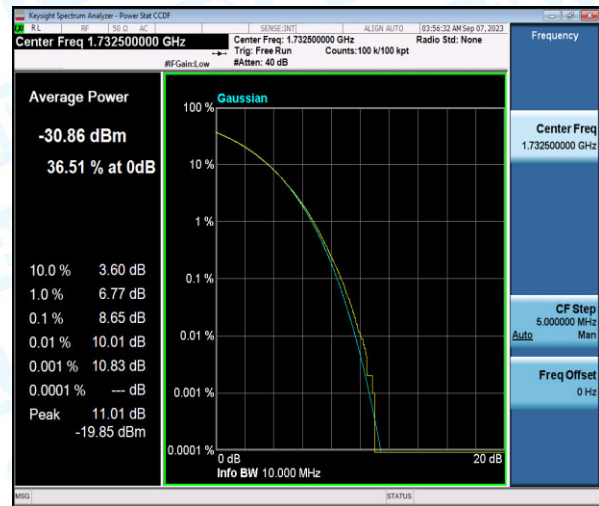
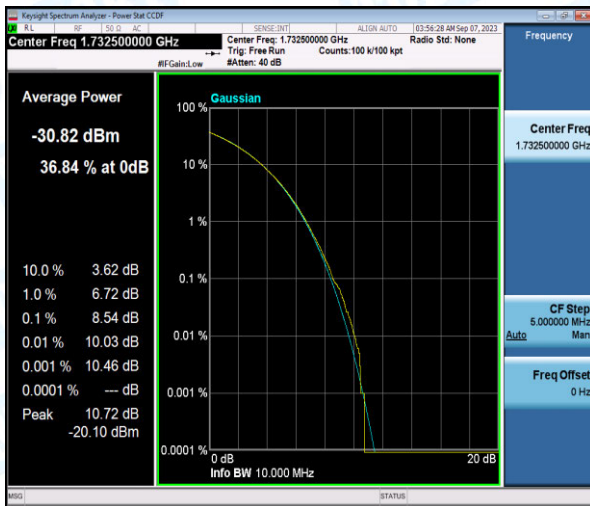
Band4-3MHz-16QAM-20385-1-0-High-9.16<=13-PASS

Band4-3MHz-16QAM-20385-6-0-High-8.51<=13-PASS



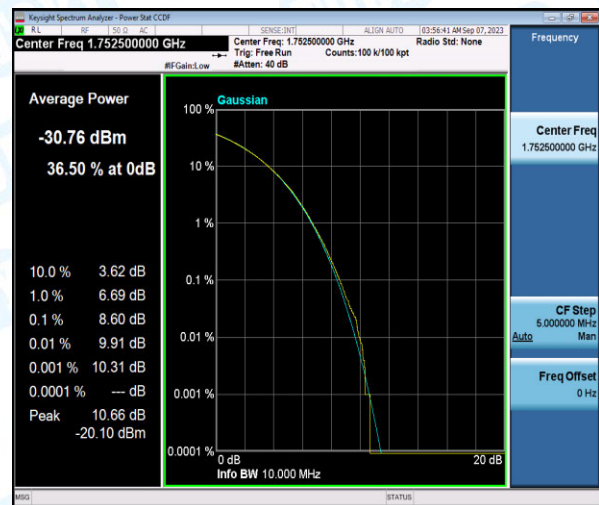
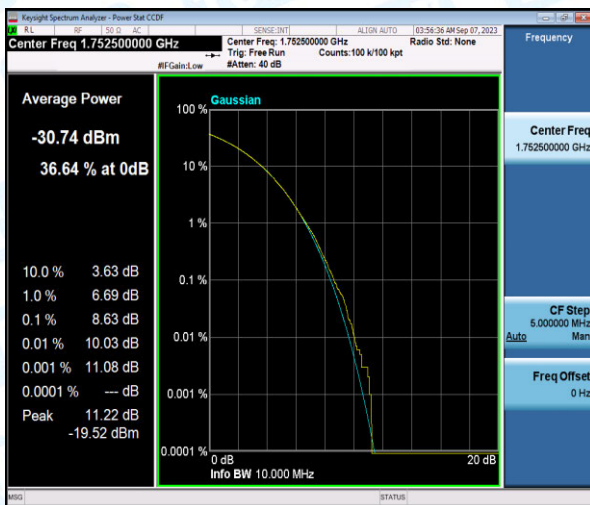
Band4-5MHz-QPSK-19975-1-0-Low-8.94-<=13-PASS

Band4-5MHz-QPSK-19975-6-0-Low-8.57-<=13-PASS



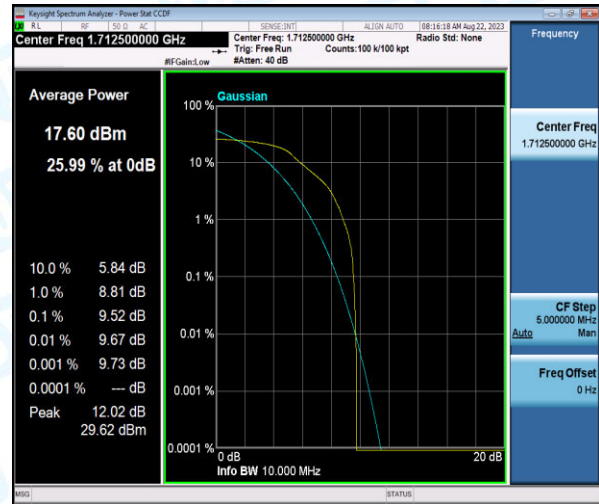
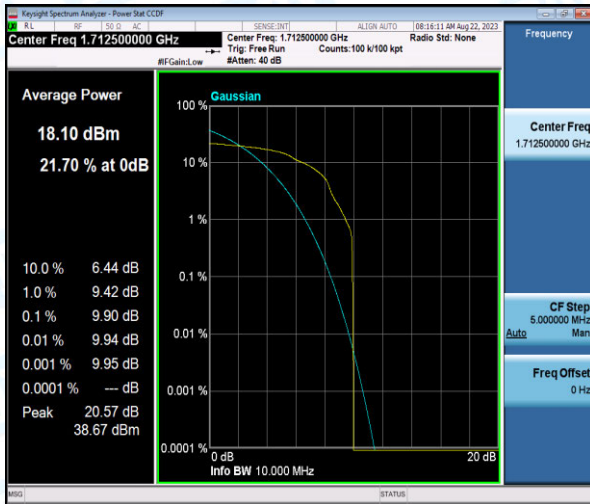
Band4-5MHz-QPSK-20175-1-0-Low-8.54-<=13-PASS

Band4-5MHz-QPSK-20175-6-0-Low-8.65-<=13-PASS



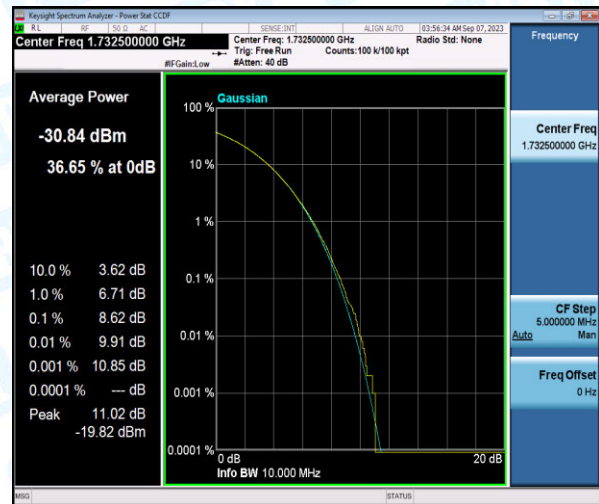
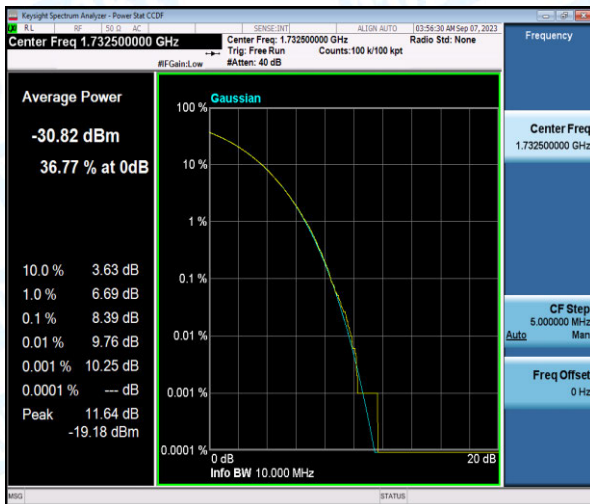
Band4-5MHz-QPSK-20375-1-0-High-8.63-<=13-PASS

Band4-5MHz-QPSK-20375-6-0-High-8.60-<=13-PASS



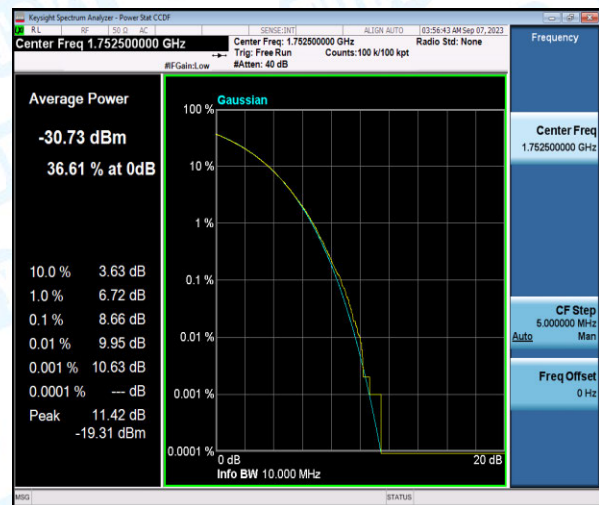
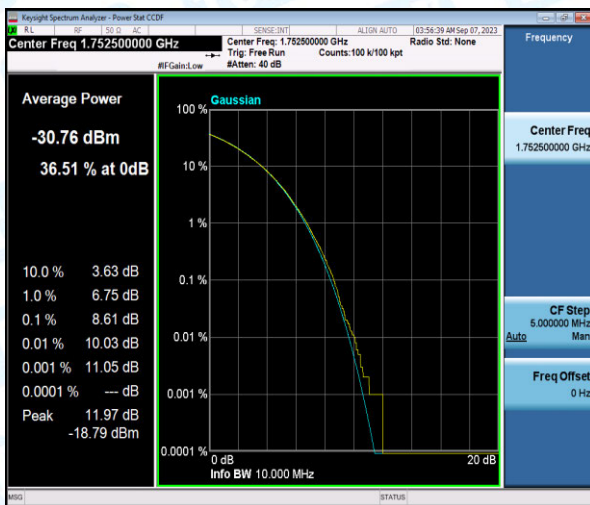
Band4-5MHz-16QAM-19975-1-0-Low-9.90-<=13-PASS

Band4-5MHz-16QAM-19975-6-0-Low-9.52-<=13-PASS



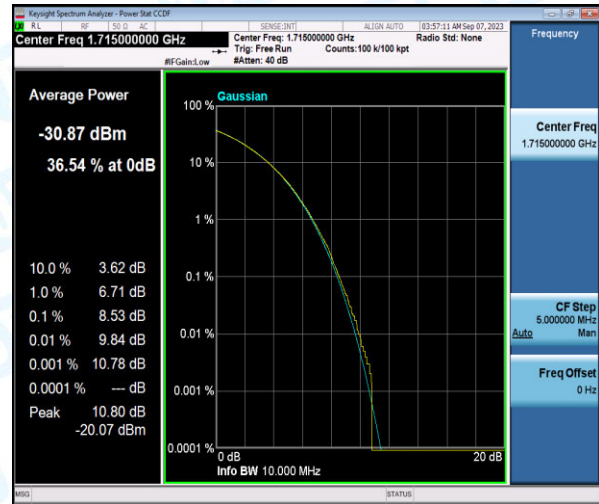
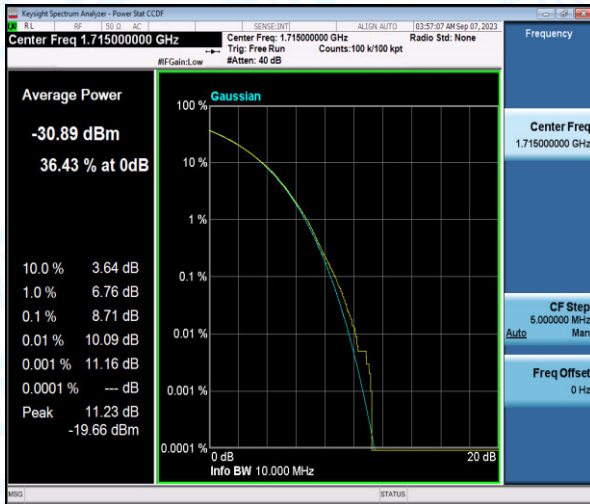
Band4-5MHz-16QAM-20175-1-0-Low-8.39-<=13-PASS

Band4-5MHz-16QAM-20175-6-0-Low-8.62-<=13-PASS



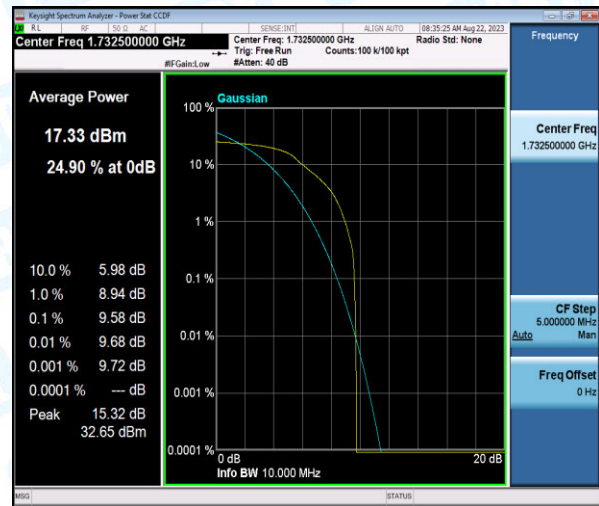
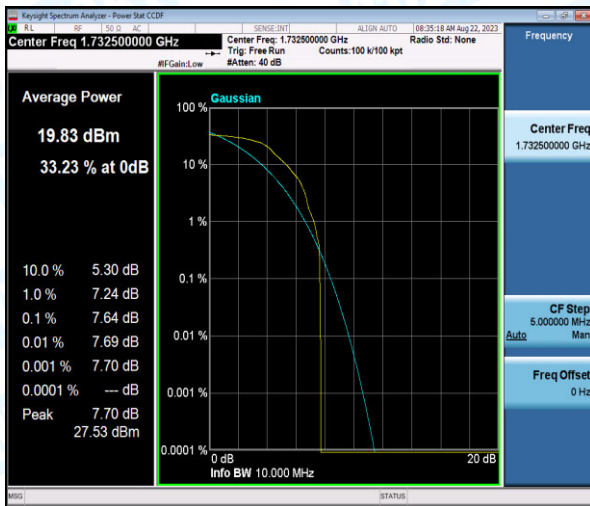
Band4-5MHz-16QAM-20375-1-0-High-8.61-<=13-PASS

Band4-5MHz-16QAM-20375-6-0-High-8.66-<=13-PASS



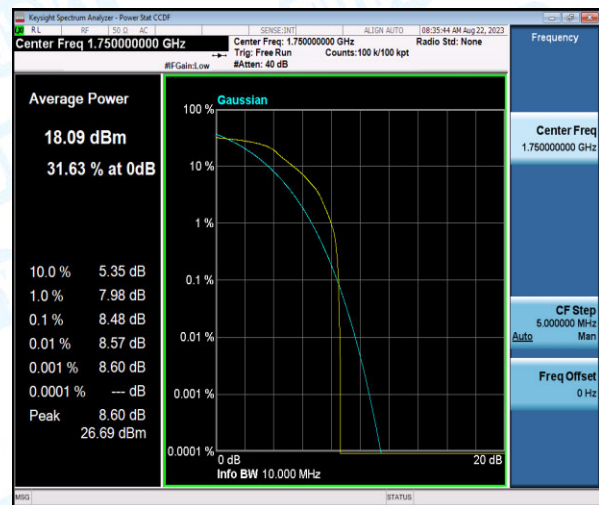
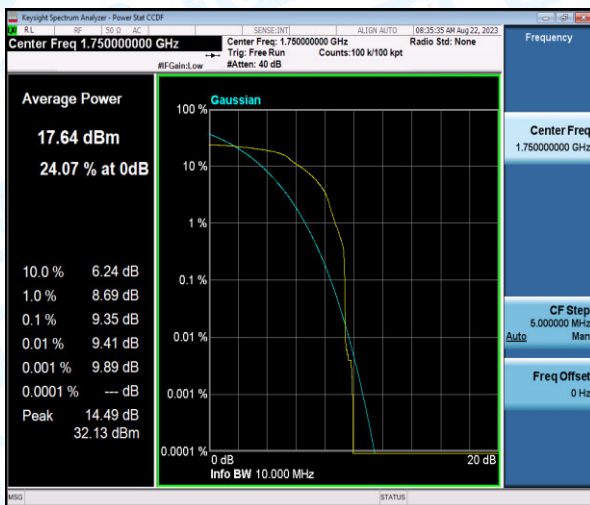
Band4-10MHz-QPSK-20000-1-0-Low-8.71-<=13-PASS

Band4-10MHz-QPSK-20000-6-0-Low-8.53-<=13-PASS



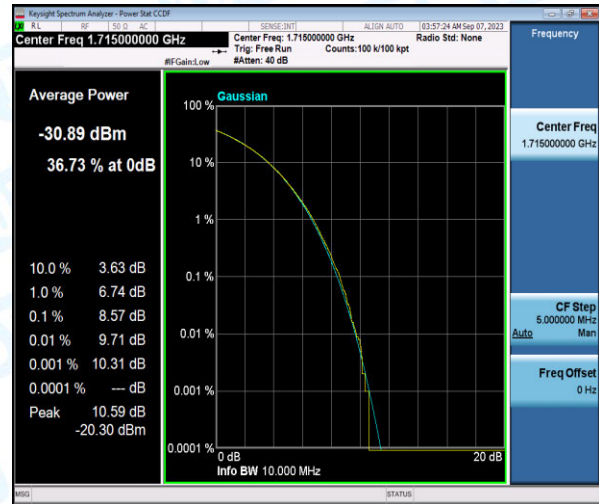
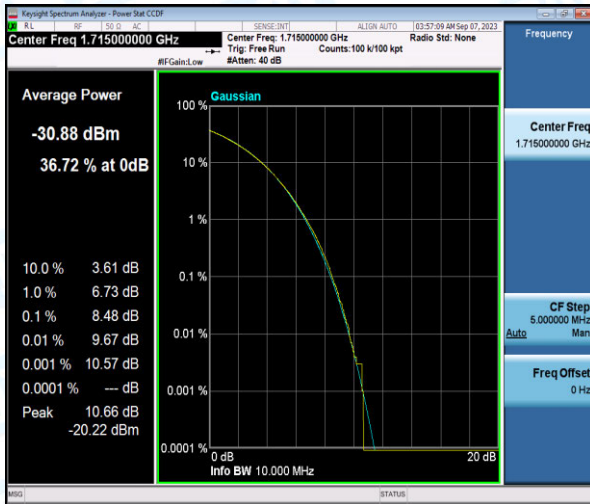
Band4-10MHz-QPSK-20175-1-0-Low-7.64-<=13-PASS

Band4-10MHz-QPSK-20175-6-0-Low-9.58-<=13-PASS



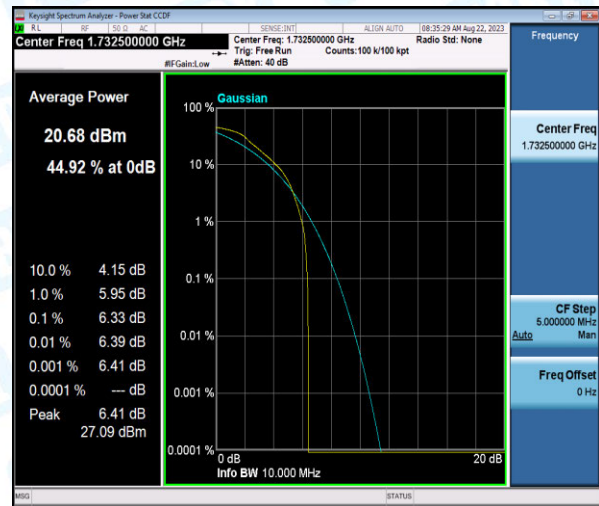
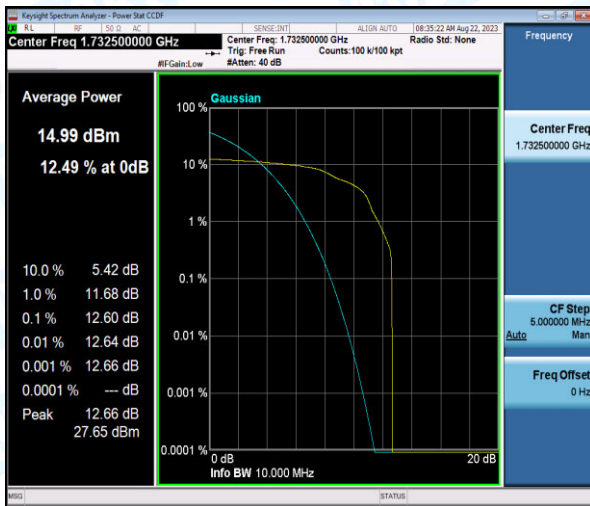
Band4-10MHz-QPSK-20350-1-0-High-9.35-<=13-PASS

Band4-10MHz-QPSK-20350-6-0-High-8.48-<=13-PASS



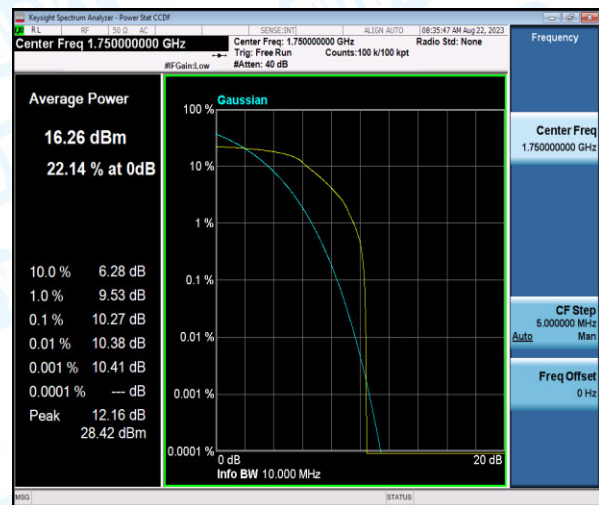
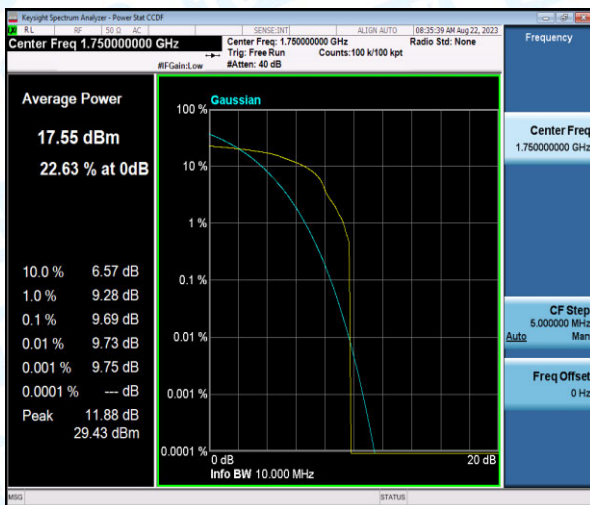
Band4-10MHz-16QAM-20000-1-0-Low-8.48-<=13-PASS

Band4-10MHz-16QAM-20000-6-0-Low-8.57-<=13-PASS



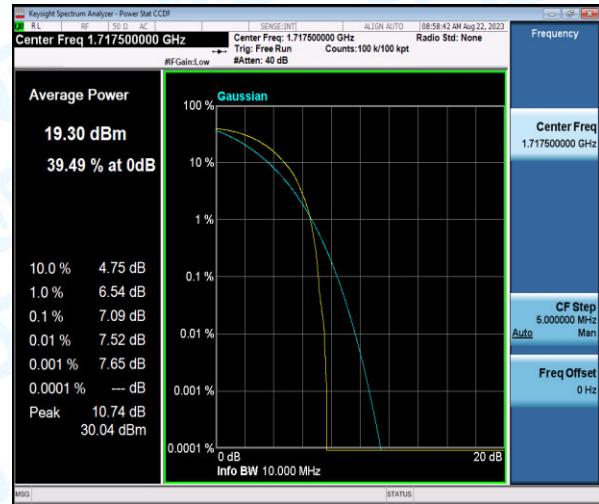
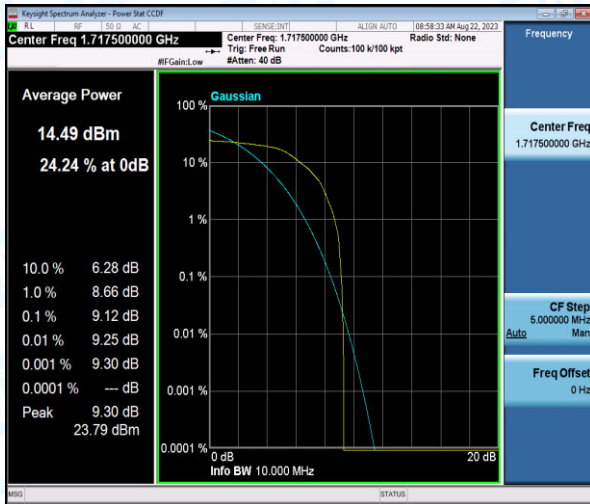
Band4-10MHz-16QAM-20175-1-0-Low-12.60-<=13-PASS

Band4-10MHz-16QAM-20175-6-0-Low-6.33-<=13-PASS



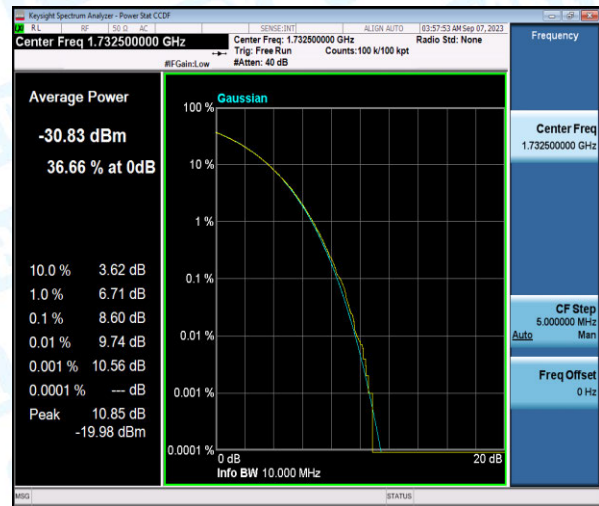
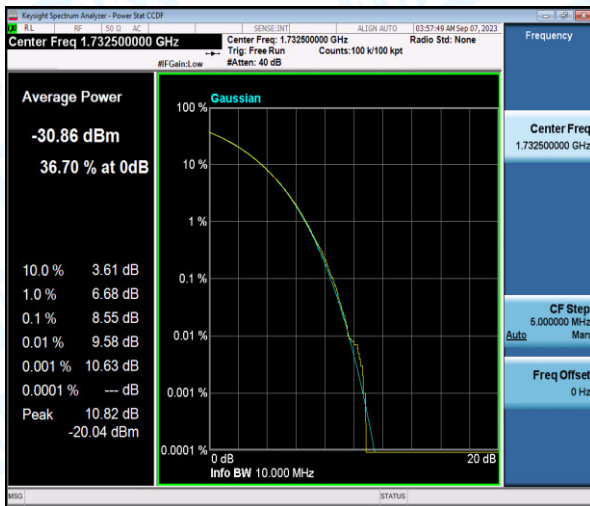
Band4-10MHz-16QAM-20350-1-0-High-9.69-<=13-PASS

Band4-10MHz-16QAM-20350-6-0-High-10.27-<=13-PASS



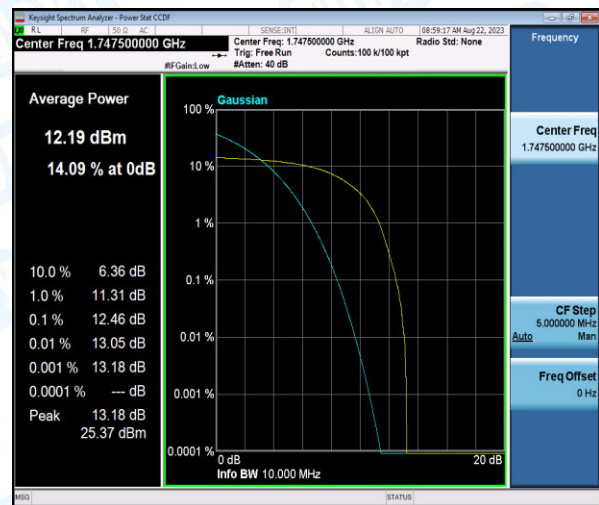
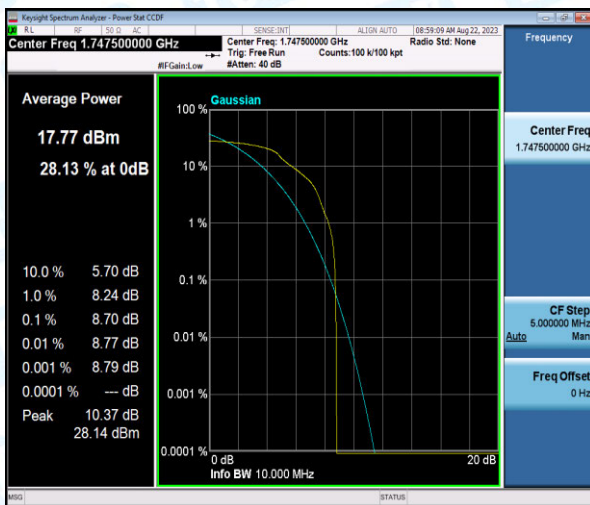
Band4-15MHz-QPSK-20025-1-0-Low-9.12-<=13-PASS

Band4-15MHz-QPSK-20025-6-0-Low-7.09-<=13-PASS



Band4-15MHz-QPSK-20175-1-0-Low-8.55-<=13-PASS

Band4-15MHz-QPSK-20175-6-0-Low-8.60-<=13-PASS



Band4-15MHz-QPSK-20325-1-0-High-8.70-<=13-PASS

Band4-15MHz-QPSK-20325-6-0-High-12.46-<=13-PASS