

Appendix A: Effective (Isotropic) Radiated Power

Test Result

Test Band: LTE CatM1 B4 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.94	21.67	21.65	/	2.58	24.52	24.25	24.23	30.00	PASS
	1	2	21.71	21.44	21.72	/	2.58	24.29	24.02	24.3	30.00	PASS
	1	5	21.74	21.87	21.49	/	2.58	24.32	24.45	24.07	30.00	PASS
	3	0	20.69	20.78	20.84	/	2.58	23.27	23.36	23.42	30.00	PASS
	3	2	20.71	20.74	20.95	/	2.58	23.29	23.32	23.53	30.00	PASS
	3	3	20.27	20.49	20.95	/	2.58	22.85	23.07	23.53	30.00	PASS
	6	0	20.64	20.75	20.43	/	2.58	23.22	23.33	23.01	30.00	PASS
16QAM	1	0	20.95	20.86	20.61	/	2.58	23.53	23.44	23.19	30.00	PASS
	1	2	20.47	20.42	20.36	/	2.58	23.05	23	22.94	30.00	PASS
	1	5	20.48	20.57	20.65	/	2.58	23.06	23.15	23.23	30.00	PASS
	3	0	20.45	20.61	20.26	/	2.58	23.03	23.19	22.84	30.00	PASS
	3	2	20.33	20.45	20.36	/	2.58	22.91	23.03	22.94	30.00	PASS
	3	3	20.66	20.25	20.45	/	2.58	23.24	22.83	23.03	30.00	PASS
	6	0	20.44	20.34	20.20	/	2.58	23.02	22.92	22.78	30.00	PASS

Test Band: LTE CatM1 B4 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.49	21.83	21.38	/	2.58	24.07	24.41	23.96	30.00	PASS
	1	2	21.68	21.87	21.66	/	2.58	24.26	24.45	24.24	30.00	PASS
	1	5	21.67	21.73	21.52	/	2.58	24.25	24.31	24.1	30.00	PASS
	3	0	20.67	21.12	21.15	/	2.58	23.25	23.7	23.73	30.00	PASS
	3	2	20.81	21.17	20.92	/	2.58	23.39	23.75	23.5	30.00	PASS
	3	3	20.74	20.98	20.82	/	2.58	23.32	23.56	23.4	30.00	PASS
	6	0	20.69	21.17	20.38	/	2.58	23.27	23.75	22.96	30.00	PASS
16QAM	1	0	21.06	21.21	21.47	/	2.58	23.64	23.79	24.05	30.00	PASS
	1	2	20.45	20.34	20.47	/	2.58	23.03	22.92	23.05	30.00	PASS
	1	5	20.43	20.55	21.03	/	2.58	23.01	23.13	23.61	30.00	PASS
	3	0	20.41	20.63	20.24	/	2.58	22.99	23.21	22.82	30.00	PASS
	3	2	20.36	20.46	20.47	/	2.58	22.94	23.04	23.05	30.00	PASS
	3	3	20.71	20.54	20.27	/	2.58	23.29	23.12	22.85	30.00	PASS
	6	0	20.48	20.69	20.32	/	2.58	23.06	23.27	22.9	30.00	PASS

Test Band: LTE CatM1 B4 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.89	21.66	21.68	/	2.58	24.47	24.24	24.26	30.00	PASS
	1	2	21.48	21.59	21.82	/	2.58	24.06	24.17	24.4	30.00	PASS
	1	5	21.64	21.53	21.64	/	2.58	24.22	24.11	24.22	30.00	PASS
	3	0	20.79	20.72	20.75	/	2.58	23.37	23.3	23.33	30.00	PASS
	3	2	20.73	20.75	20.86	/	2.58	23.31	23.33	23.44	30.00	PASS
	3	3	20.65	20.87	20.83	/	2.58	23.23	23.45	23.41	30.00	PASS
	6	0	20.71	21.15	20.49	/	2.58	23.29	23.73	23.07	30.00	PASS
16QAM	1	0	20.98	21.18	20.68	/	2.58	23.56	23.76	23.26	30.00	PASS
	1	2	20.46	20.29	20.34	/	2.58	23.04	22.87	22.92	30.00	PASS
	1	5	20.42	20.91	20.68	/	2.58	23	23.49	23.26	30.00	PASS
	3	0	20.51	20.62	20.76	/	2.58	23.09	23.2	23.34	30.00	PASS
	3	2	20.35	20.74	20.28	/	2.58	22.93	23.32	22.86	30.00	PASS
	3	3	20.66	20.35	20.44	/	2.58	23.24	22.93	23.02	30.00	PASS
	6	0	20.45	20.72	20.58	/	2.58	23.03	23.3	23.16	30.00	PASS

Test Band: LTE CatM1 B4 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.52	21.66	21.75	/	2.58	24.1	24.24	24.33	30.00	PASS
	1	2	21.39	21.54	21.84	/	2.58	23.97	24.12	24.42	30.00	PASS
	1	5	21.77	21.65	21.58	/	2.58	24.35	24.23	24.16	30.00	PASS
	3	0	20.73	20.72	20.93	/	2.58	23.31	23.3	23.51	30.00	PASS
	3	2	20.75	20.77	20.91	/	2.58	23.33	23.35	23.49	30.00	PASS
	3	3	20.67	20.89	20.89	/	2.58	23.25	23.47	23.47	30.00	PASS
	6	0	20.61	20.72	20.49	/	2.58	23.19	23.3	23.07	30.00	PASS
16QAM	1	0	20.93	21.25	20.63	/	2.58	23.51	23.83	23.21	30.00	PASS
	1	2	20.47	20.55	20.04	/	2.58	23.05	23.13	22.62	30.00	PASS
	1	5	20.29	20.83	20.98	/	2.58	22.87	23.41	23.56	30.00	PASS
	3	0	20.43	20.65	20.75	/	2.58	23.01	23.23	23.33	30.00	PASS
	3	2	20.74	20.26	20.53	/	2.58	23.32	22.84	23.11	30.00	PASS
	3	3	20.65	20.26	20.47	/	2.58	23.23	22.84	23.05	30.00	PASS
	6	0	20.43	20.71	20.42	/	2.58	23.01	23.29	23	30.00	PASS

Test Band: LTE CatM1 B4 _ 15MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.48	21.99	21.82	/	2.58	24.06	24.57	24.4	30.00	PASS
	1	2	21.71	21.67	21.83	/	2.58	24.29	24.25	24.41	30.00	PASS
	1	5	21.25	21.64	21.43	/	2.58	23.83	24.22	24.01	30.00	PASS
	3	0	20.75	20.79	20.92	/	2.58	23.33	23.37	23.5	30.00	PASS
	3	2	20.73	20.72	20.94	/	2.58	23.31	23.3	23.52	30.00	PASS
	3	3	20.73	20.83	20.95	/	2.58	23.31	23.41	23.53	30.00	PASS
	6	0	20.69	20.74	20.58	/	2.58	23.27	23.32	23.16	30.00	PASS
16QAM	1	0	20.95	21.24	21.36	/	2.58	23.53	23.82	23.94	30.00	PASS
	1	2	20.57	20.69	20.54	/	2.58	23.15	23.27	23.12	30.00	PASS
	1	5	20.23	20.84	21.03	/	2.58	22.81	23.42	23.61	30.00	PASS
	3	0	20.51	20.65	20.27	/	2.58	23.09	23.23	22.85	30.00	PASS
	3	2	20.59	20.72	20.31	/	2.58	23.17	23.3	22.89	30.00	PASS
	3	3	20.59	20.25	20.28	/	2.58	23.17	22.83	22.86	30.00	PASS
	6	0	20.45	20.39	20.33	/	2.58	23.03	22.97	22.91	30.00	PASS

Test Band: LTE CatM1 B4 _ 20MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	21.59	21.54	21.87	/	2.58	24.17	24.12	24.45	30.00	PASS
	1	2	21.48	21.69	21.75	/	2.58	24.06	24.27	24.33	30.00	PASS
	1	5	21.27	21.67	21.39	/	2.58	23.85	24.25	23.97	30.00	PASS
	3	0	20.75	21.02	20.88	/	2.58	23.33	23.6	23.46	30.00	PASS
	3	2	20.71	20.68	20.78	/	2.58	23.29	23.26	23.36	30.00	PASS
	3	3	20.78	20.88	20.82	/	2.58	23.36	23.46	23.4	30.00	PASS
	6	0	20.65	21.12	20.42	/	2.58	23.23	23.7	23	30.00	PASS
16QAM	1	0	21.07	21.04	21.09	/	2.58	23.65	23.62	23.67	30.00	PASS
	1	2	20.27	20.73	20.78	/	2.58	22.85	23.31	23.36	30.00	PASS
	1	5	20.44	20.86	21.04	/	2.58	23.02	23.44	23.62	30.00	PASS
	3	0	20.42	20.25	20.43	/	2.58	23	22.83	23.01	30.00	PASS
	3	2	20.32	20.46	20.63	/	2.58	22.9	23.04	23.21	30.00	PASS
	3	3	20.64	20.25	20.31	/	2.58	23.22	22.83	22.89	30.00	PASS
	6	0	20.43	20.32	20.57	/	2.58	23.01	22.9	23.15	30.00	PASS

Note:

1) dBd = dBi - 2.15

2) EIRP = Conducted output power + Antenna gain (dBi)

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

Test Result

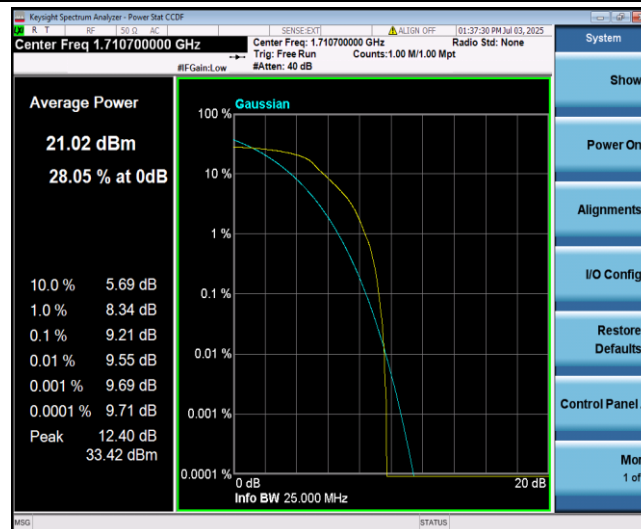
Band	Bandwidth	Channel	Modulation	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	7.43	<=13	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	9.21	<=13	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	8.24	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	8.86	<=13	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	8.77	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	11.82	<=13	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	9.50	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	10.82	<=13	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	9.33	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	8.78	<=13	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	9.33	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	10.61	<=13	PASS
Band4	3MHz	19965	QPSK	1	0	Low	8.56	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	Low	9.23	<=13	PASS
Band4	3MHz	20175	QPSK	1	0	Low	7.75	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	9.53	<=13	PASS
Band4	3MHz	20385	QPSK	1	0	High	9.21	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	High	9.51	<=13	PASS
Band4	3MHz	19965	16QAM	1	0	Low	10.92	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	Low	9.55	<=13	PASS
Band4	3MHz	20175	16QAM	1	0	Low	9.50	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	Low	9.08	<=13	PASS
Band4	3MHz	20385	16QAM	1	0	High	9.59	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	High	11.11	<=13	PASS
Band4	5MHz	19975	QPSK	1	0	Low	9.42	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	Low	8.98	<=13	PASS
Band4	5MHz	20175	QPSK	1	0	Low	8.05	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	9.07	<=13	PASS
Band4	5MHz	20375	QPSK	1	0	High	8.76	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	High	9.27	<=13	PASS
Band4	5MHz	19975	16QAM	1	0	Low	9.64	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	8.34	<=13	PASS
Band4	5MHz	20175	16QAM	1	0	Low	11.40	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	11.39	<=13	PASS
Band4	5MHz	20375	16QAM	1	0	High	8.47	<=13	PASS
Band4	5MHz	20375	16QAM	6	0	High	9.10	<=13	PASS

Band4	10MHz	20000	QPSK	1	0	Low	8.12	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	Low	8.69	<=13	PASS
Band4	10MHz	20175	QPSK	1	0	Low	8.20	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	Low	9.47	<=13	PASS
Band4	10MHz	20350	QPSK	1	0	High	8.92	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	High	11.26	<=13	PASS
Band4	10MHz	20000	16QAM	1	0	Low	8.95	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	Low	10.98	<=13	PASS
Band4	10MHz	20175	16QAM	1	0	Low	9.19	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	8.38	<=13	PASS
Band4	10MHz	20350	16QAM	1	0	High	8.39	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	High	9.05	<=13	PASS
Band4	15MHz	20025	QPSK	1	0	Low	7.91	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	Low	9.26	<=13	PASS
Band4	15MHz	20175	QPSK	1	0	Low	9.27	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	11.19	<=13	PASS
Band4	15MHz	20325	QPSK	1	0	High	8.57	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	High	7.22	<=13	PASS
Band4	15MHz	20025	16QAM	1	0	Low	8.70	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	Low	8.33	<=13	PASS
Band4	15MHz	20175	16QAM	1	0	Low	9.19	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	Low	9.04	<=13	PASS
Band4	15MHz	20325	16QAM	1	0	High	11.28	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	High	8.94	<=13	PASS
Band4	20MHz	20050	QPSK	1	0	Low	7.97	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	Low	12.19	<=13	PASS
Band4	20MHz	20175	QPSK	1	0	Low	7.93	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	8.07	<=13	PASS
Band4	20MHz	20300	QPSK	1	0	High	10.89	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	High	8.07	<=13	PASS
Band4	20MHz	20050	16QAM	1	0	Low	9.32	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	Low	8.80	<=13	PASS
Band4	20MHz	20175	16QAM	1	0	Low	9.48	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	8.98	<=13	PASS
Band4	20MHz	20300	16QAM	1	0	High	7.86	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	High	8.67	<=13	PASS

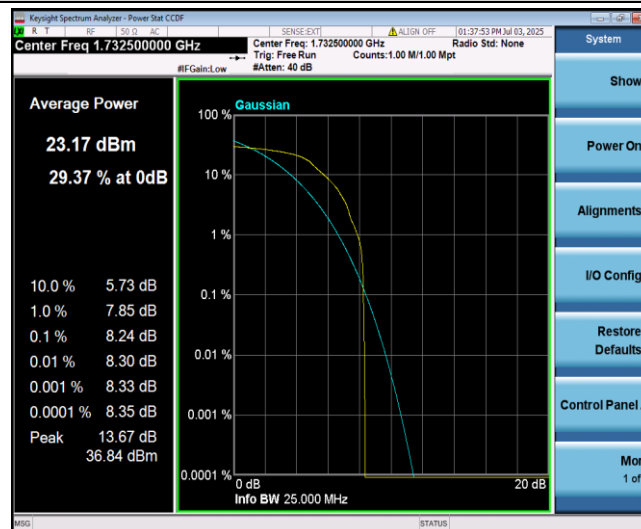
Test Graphs



Band4-1.4MHz-QPSK-19957-1-0-Low-7.43-<=13-PASS



Band4-1.4MHz-QPSK-19957-6-0-Low-9.21-<=13-PASS



Band4-1.4MHz-QPSK-20175-1-0-Low-8.24-<=13-PASS



Band4-1.4MHz-QPSK-20175-6-0-Low-8.86-<=13-PASS



Band4-1.4MHz-QPSK-20393-1-0-High-8.77-<=13-PASS



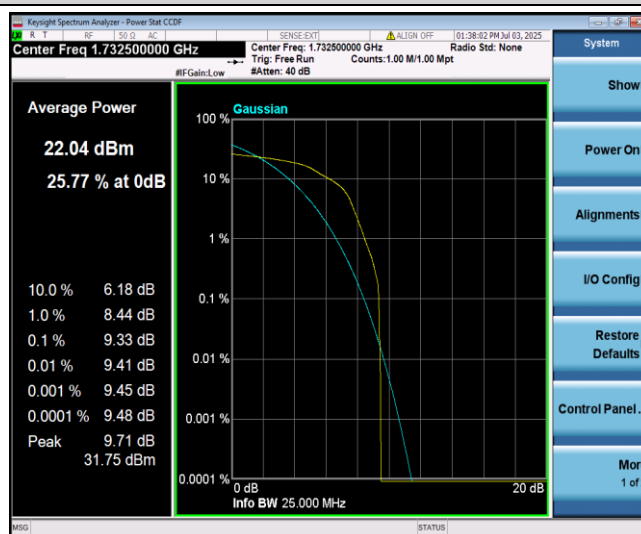
Band4-1.4MHz-QPSK-20393-6-0-High-11.82-<=13-PASS



Band4-1.4MHz-16QAM-19957-1-0-Low-9.50-<=13-PASS



Band4-1.4MHz-16QAM-19957-6-0-Low-10.82-<=13-PASS



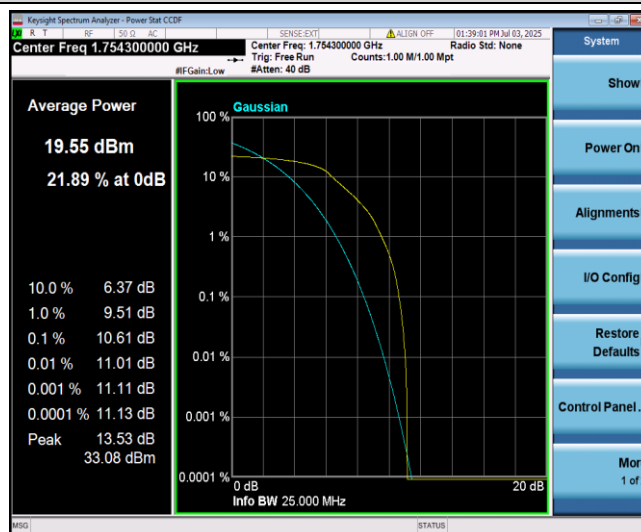
Band4-1.4MHz-16QAM-20175-1-0-Low-9.33-<=13-PASS



Band4-1.4MHz-16QAM-20175-6-0-Low-8.78-<=13-PASS



Band4-1.4MHz-16QAM-20393-1-0-High-9.33-<=13-PASS



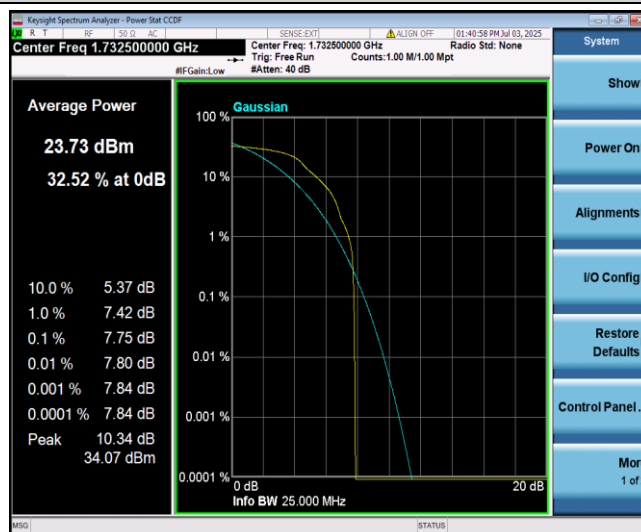
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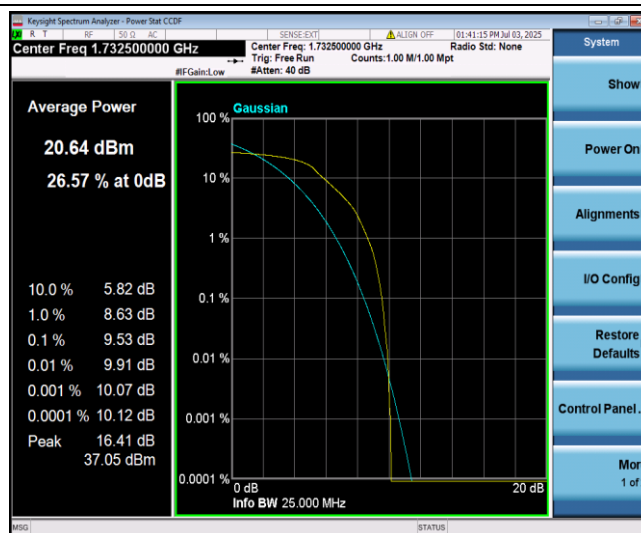
Band4-3MHz-QPSK-19965-1-0-Low-8.56-≤13-PASS



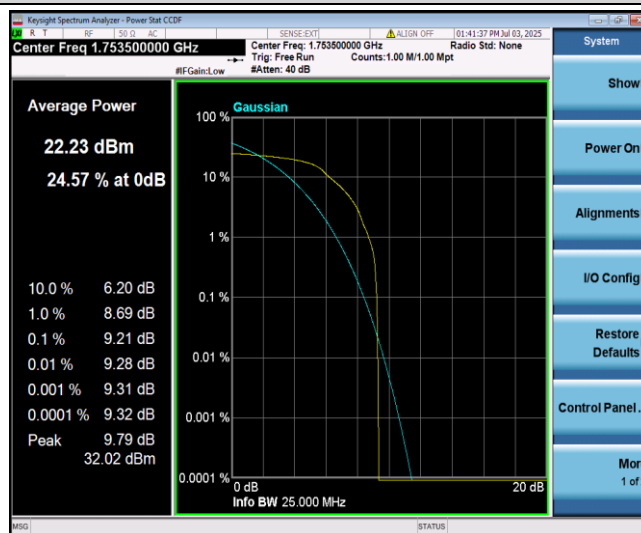
Band4-3MHz-QPSK-19965-6-0-Low-9.23-≤13-PASS



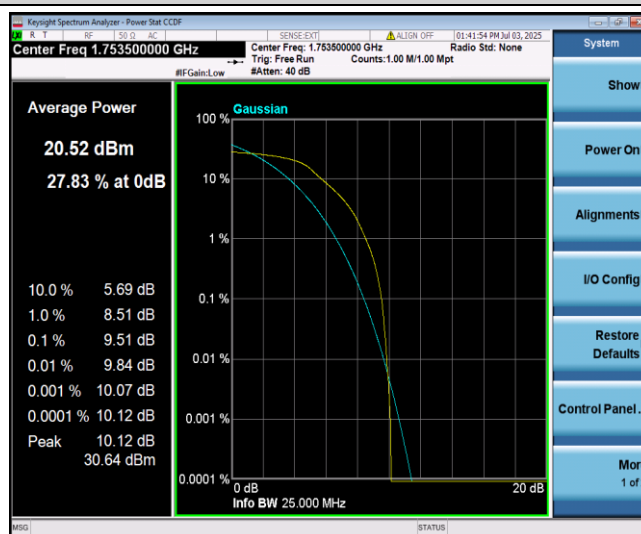
Band4-3MHz-QPSK-20175-1-0-Low-7.75-≤13-PASS



Band4-3MHz-QPSK-20175-6-0-Low-9.53-≤13-PASS



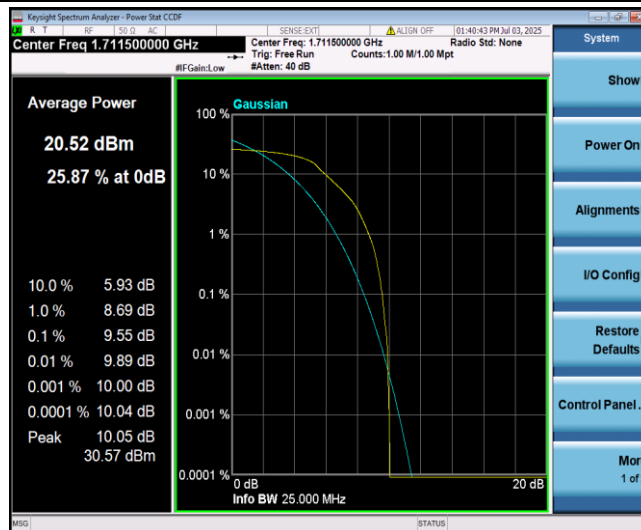
Band4-3MHz-QPSK-20385-1-0-High-9.21-≤13-PASS



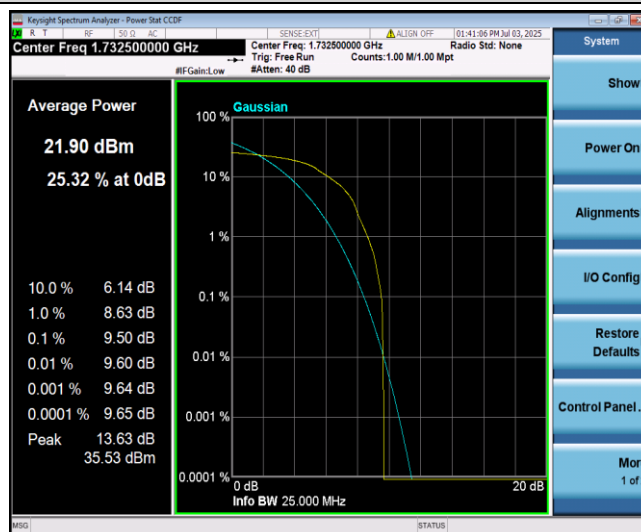
Band4-3MHz-QPSK-20385-6-0-High-9.51-≤13-PASS



Band4-3MHz-16QAM-19965-1-0-Low-10.92-<=13-PASS



Band4-3MHz-16QAM-19965-6-0-Low-9.55-<=13-PASS



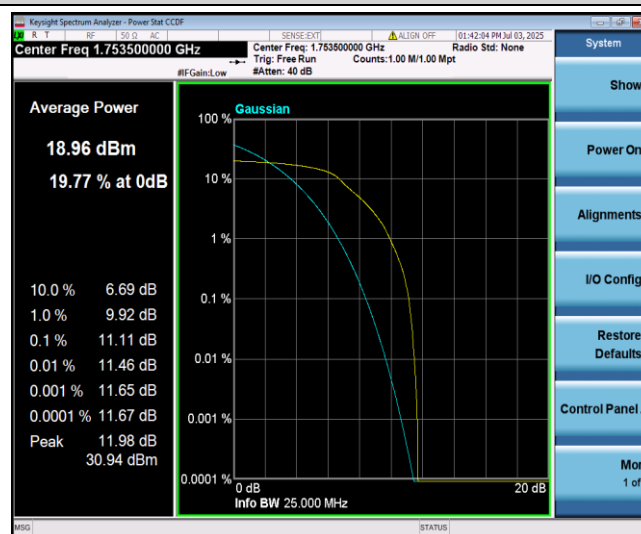
Band4-3MHz-16QAM-20175-1-0-Low-9.50-<=13-PASS



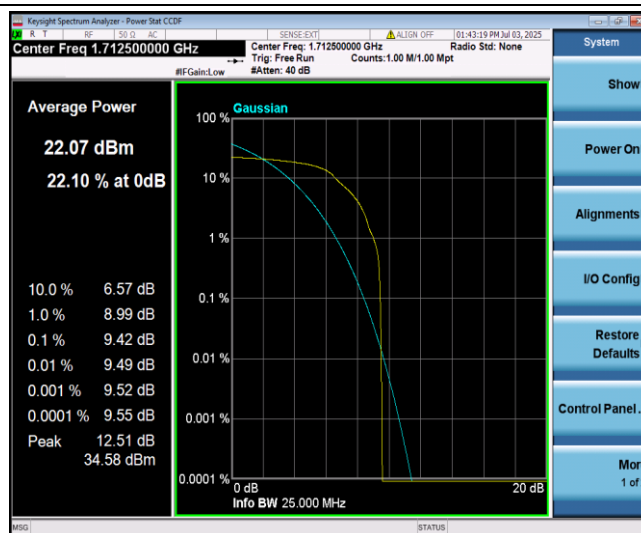
Band4-3MHz-16QAM-20175-6-0-Low-9.08-<=13-PASS



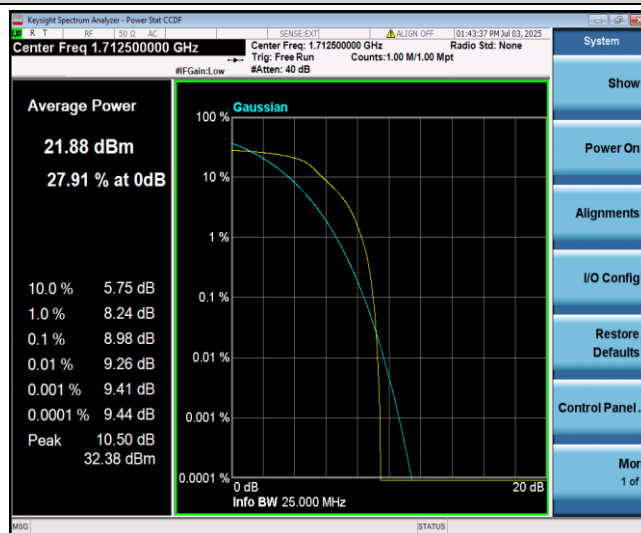
Band4-3MHz-16QAM-20385-1-0-High-9.59-<=13-PASS



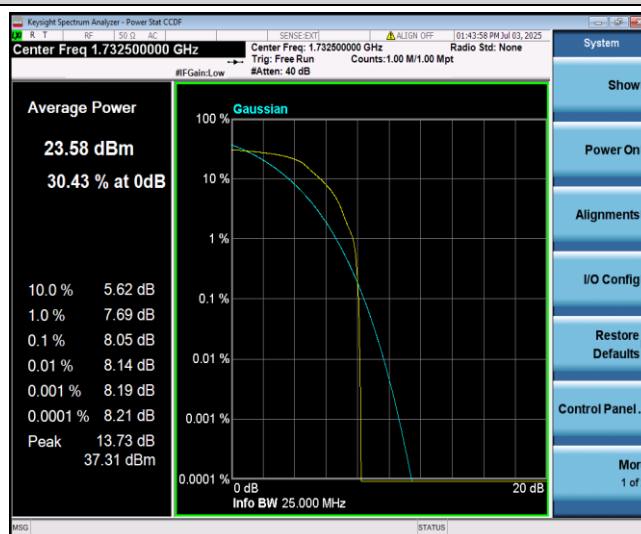
Band4-3MHz-16QAM-20385-6-0-High-11.11-<=13-PASS



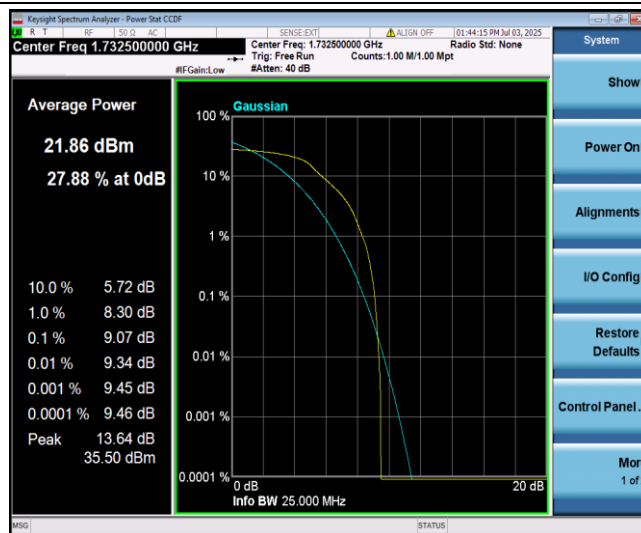
Band4-5MHz-QPSK-19975-1-0-Low-9.42-<=13-PASS



Band4-5MHz-QPSK-19975-6-0-Low-8.98-<=13-PASS



Band4-5MHz-QPSK-20175-1-0-Low-8.05-<=13-PASS



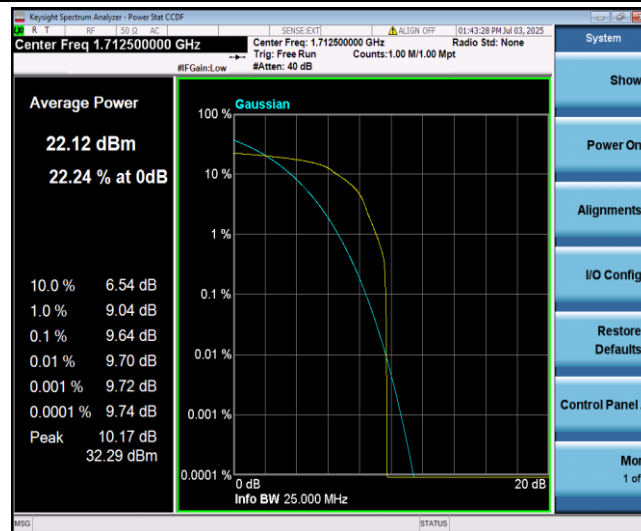
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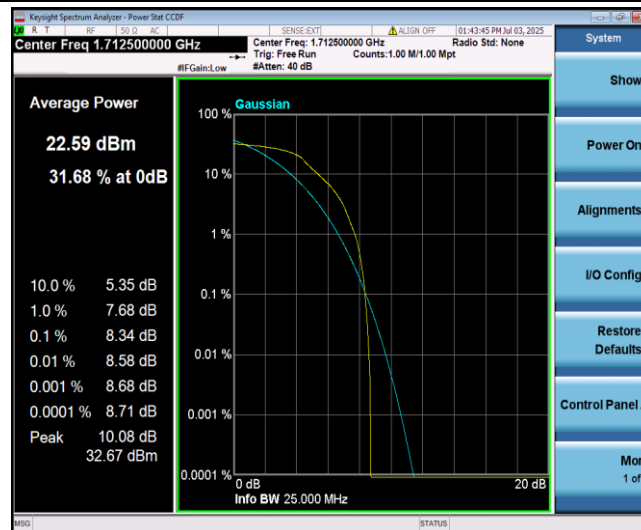
Band4-5MHz-QPSK-20375-1-0-High-8.76-<=13-PASS



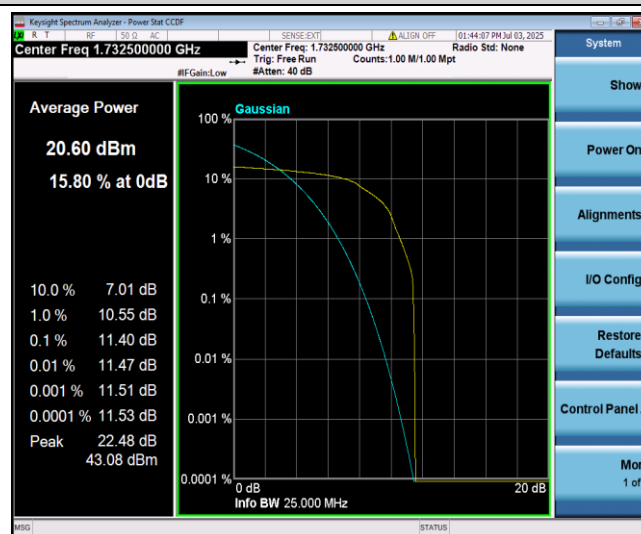
Band4-5MHz-QPSK-20375-6-0-High-9.27-<=13-PASS



Band4-5MHz-16QAM-19975-1-0-Low-9.64-<=13-PASS



Band4-5MHz-16QAM-19975-6-0-Low-8.34-<=13-PASS



Band4-5MHz-16QAM-20175-1-0-Low-11.40-<=13-PASS



Band4-5MHz-16QAM-20175-6-0-Low-11.39-=<=13-PASS



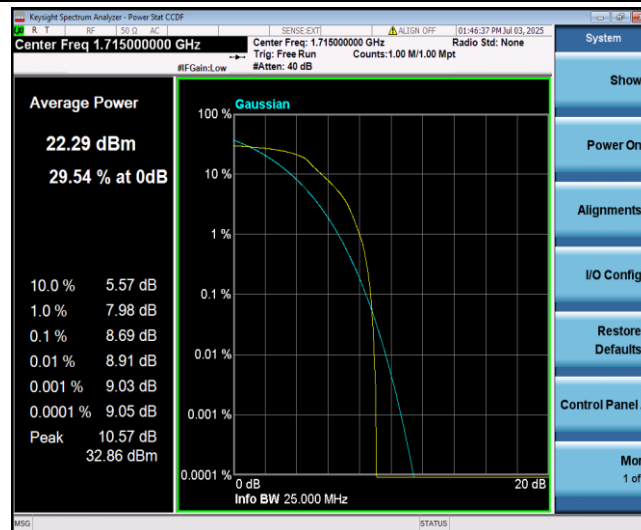
Band4-5MHz-16QAM-20375-1-0-High-8.47-=<=13-PASS



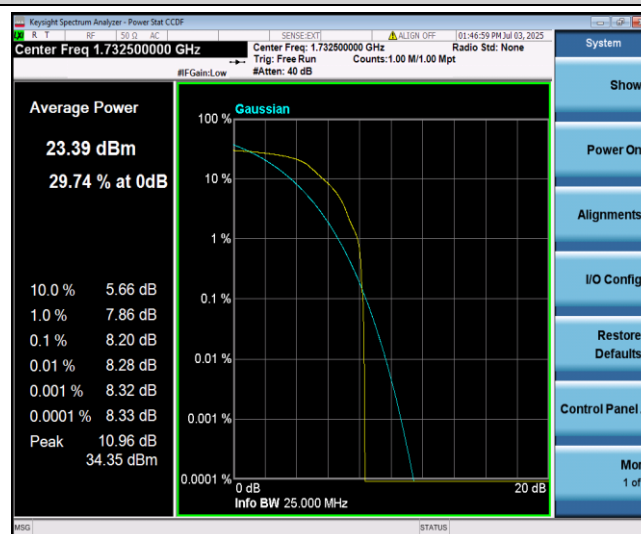
Band4-5MHz-16QAM-20375-6-0-High-9.10-=<=13-PASS



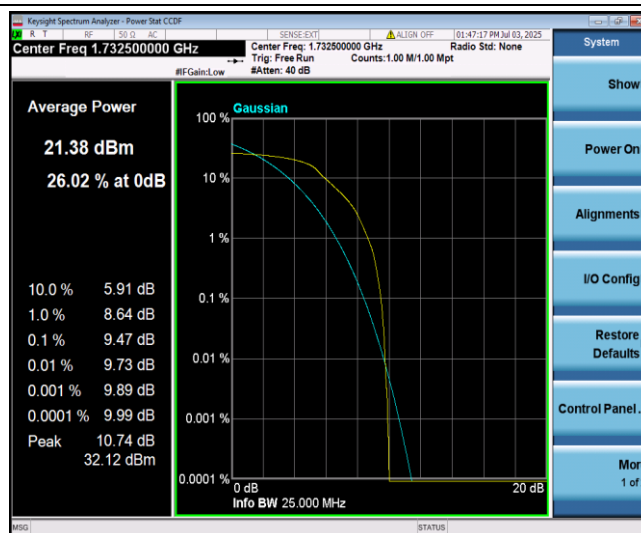
Band4-10MHz-QPSK-20000-1-0-Low-8.12-<=13-PASS



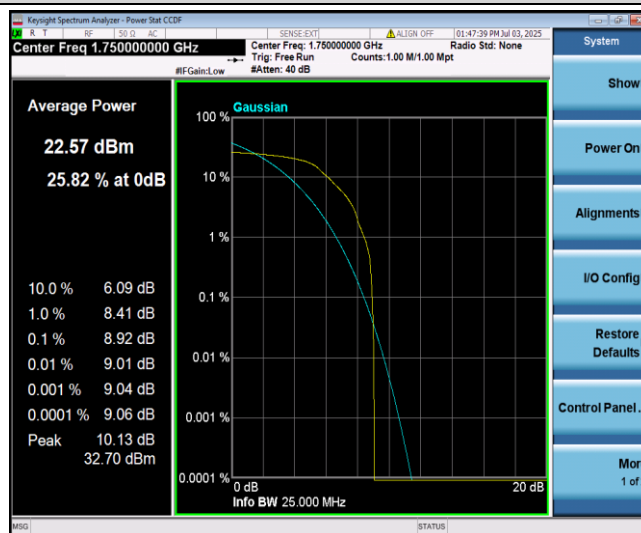
Band4-10MHz-QPSK-20000-6-0-Low-8.69-<=13-PASS



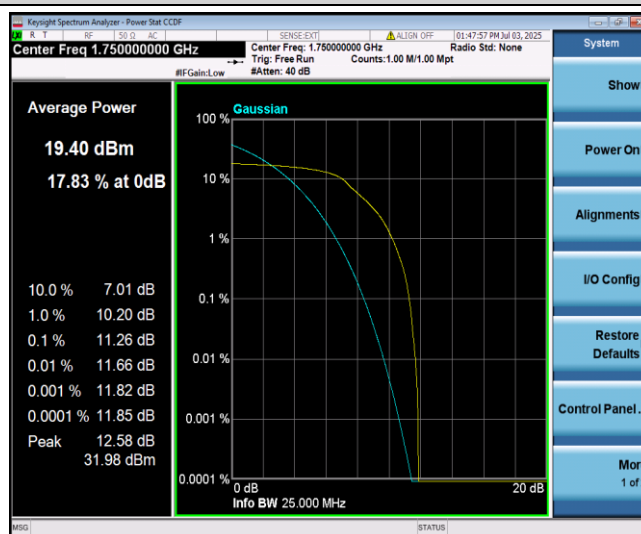
Band4-10MHz-QPSK-20175-1-0-Low-8.20-<=13-PASS



Band4-10MHz-QPSK-20175-6-0-Low-9.47-<=13-PASS



Band4-10MHz-QPSK-20350-1-0-High-8.92-<=13-PASS



Band4-10MHz-QPSK-20350-6-0-High-11.26-<=13-PASS