



## **Appendix C: Test Data for E-UTRA Band 4**

**Product Name: POS Terminal**

**Test Model: TP50**

### C.1 Effective (Isotropic) Radiated Power Output Data

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band4	1.4MHz	19957	QPSK	1	0	Low	20.90	PASS
Band4	1.4MHz	19957	QPSK	1	5	Low	20.86	PASS
Band4	1.4MHz	19957	QPSK	6	0	Low	18.63	PASS
Band4	1.4MHz	20175	QPSK	1	0	Low	19.91	PASS
Band4	1.4MHz	20175	QPSK	1	5	Low	20.00	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	17.67	PASS
Band4	1.4MHz	20393	QPSK	1	0	High	20.95	PASS
Band4	1.4MHz	20393	QPSK	1	5	High	21.10	PASS
Band4	1.4MHz	20393	QPSK	6	0	High	18.87	PASS
Band4	1.4MHz	19957	16QAM	1	0	Low	19.97	PASS
Band4	1.4MHz	19957	16QAM	1	5	Low	19.66	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	18.74	PASS
Band4	1.4MHz	20175	16QAM	1	0	Low	19.17	PASS
Band4	1.4MHz	20175	16QAM	1	5	Low	19.00	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	17.74	PASS
Band4	1.4MHz	20393	16QAM	1	0	High	20.41	PASS
Band4	1.4MHz	20393	16QAM	1	5	High	20.21	PASS
Band4	1.4MHz	20393	16QAM	6	0	High	18.88	PASS
Band4	3MHz	19965	QPSK	1	0	Low	20.99	PASS
Band4	3MHz	19965	QPSK	1	5	Low	20.77	PASS
Band4	3MHz	19965	QPSK	6	0	Low	18.76	PASS
Band4	3MHz	20175	QPSK	1	0	Low	19.78	PASS
Band4	3MHz	20175	QPSK	1	5	Low	19.84	PASS
Band4	3MHz	20175	QPSK	6	0	Low	17.76	PASS
Band4	3MHz	20385	QPSK	1	0	High	20.87	PASS
Band4	3MHz	20385	QPSK	1	5	High	20.82	PASS
Band4	3MHz	20385	QPSK	6	0	High	18.74	PASS
Band4	3MHz	19965	16QAM	1	0	Low	19.87	PASS
Band4	3MHz	19965	16QAM	1	5	Low	19.69	PASS
Band4	3MHz	19965	16QAM	6	0	Low	18.77	PASS
Band4	3MHz	20175	16QAM	1	0	Low	18.87	PASS
Band4	3MHz	20175	16QAM	1	5	Low	18.76	PASS
Band4	3MHz	20175	16QAM	6	0	Low	17.68	PASS
Band4	3MHz	20385	16QAM	1	0	High	19.84	PASS
Band4	3MHz	20385	16QAM	1	5	High	19.85	PASS
Band4	3MHz	20385	16QAM	6	0	High	18.76	PASS
Band4	5MHz	19975	QPSK	1	0	Low	21.26	PASS



Band4	5MHz	19975	QPSK	1	5	Low	21.19	PASS
Band4	5MHz	19975	QPSK	6	0	Low	20.85	PASS
Band4	5MHz	20175	QPSK	1	0	Low	20.16	PASS
Band4	5MHz	20175	QPSK	1	5	Low	20.06	PASS
Band4	5MHz	20175	QPSK	6	0	Low	20.06	PASS
Band4	5MHz	20375	QPSK	1	0	High	22.00	PASS
Band4	5MHz	20375	QPSK	1	5	High	22.57	PASS
Band4	5MHz	20375	QPSK	6	0	High	22.65	PASS
Band4	5MHz	19975	16QAM	1	0	Low	21.50	PASS
Band4	5MHz	19975	16QAM	1	5	Low	21.43	PASS
Band4	5MHz	19975	16QAM	6	0	Low	20.86	PASS
Band4	5MHz	20175	16QAM	1	0	Low	20.37	PASS
Band4	5MHz	20175	16QAM	1	5	Low	20.23	PASS
Band4	5MHz	20175	16QAM	6	0	Low	20.08	PASS
Band4	5MHz	20375	16QAM	1	0	High	22.66	PASS
Band4	5MHz	20375	16QAM	1	5	High	22.87	PASS
Band4	5MHz	20375	16QAM	6	0	High	21.83	PASS
Band4	10MHz	20000	QPSK	1	0	Low	20.93	PASS
Band4	10MHz	20000	QPSK	1	5	Low	20.71	PASS
Band4	10MHz	20000	QPSK	6	0	Low	19.55	PASS
Band4	10MHz	20175	QPSK	1	0	Low	19.75	PASS
Band4	10MHz	20175	QPSK	1	5	Low	19.74	PASS
Band4	10MHz	20175	QPSK	6	0	Low	18.58	PASS
Band4	10MHz	20350	QPSK	1	0	High	21.07	PASS
Band4	10MHz	20350	QPSK	1	5	High	20.93	PASS
Band4	10MHz	20350	QPSK	6	0	High	19.61	PASS
Band4	10MHz	20000	16QAM	1	0	Low	20.93	PASS
Band4	10MHz	20000	16QAM	1	5	Low	20.79	PASS
Band4	10MHz	20000	16QAM	6	0	Low	19.63	PASS
Band4	10MHz	20175	16QAM	1	0	Low	19.94	PASS
Band4	10MHz	20175	16QAM	1	5	Low	19.81	PASS
Band4	10MHz	20175	16QAM	6	0	Low	18.71	PASS
Band4	10MHz	20350	16QAM	1	0	High	21.16	PASS
Band4	10MHz	20350	16QAM	1	5	High	20.91	PASS
Band4	10MHz	20350	16QAM	6	0	High	19.66	PASS
Band4	15MHz	20025	QPSK	1	0	Low	20.79	PASS
Band4	15MHz	20025	QPSK	1	5	Low	20.68	PASS
Band4	15MHz	20025	QPSK	6	0	Low	20.51	PASS
Band4	15MHz	20175	QPSK	1	0	Low	19.81	PASS
Band4	15MHz	20175	QPSK	1	5	Low	19.80	PASS
Band4	15MHz	20175	QPSK	6	0	Low	19.73	PASS
Band4	15MHz	20325	QPSK	1	0	High	20.98	PASS
Band4	15MHz	20325	QPSK	1	5	High	20.91	PASS



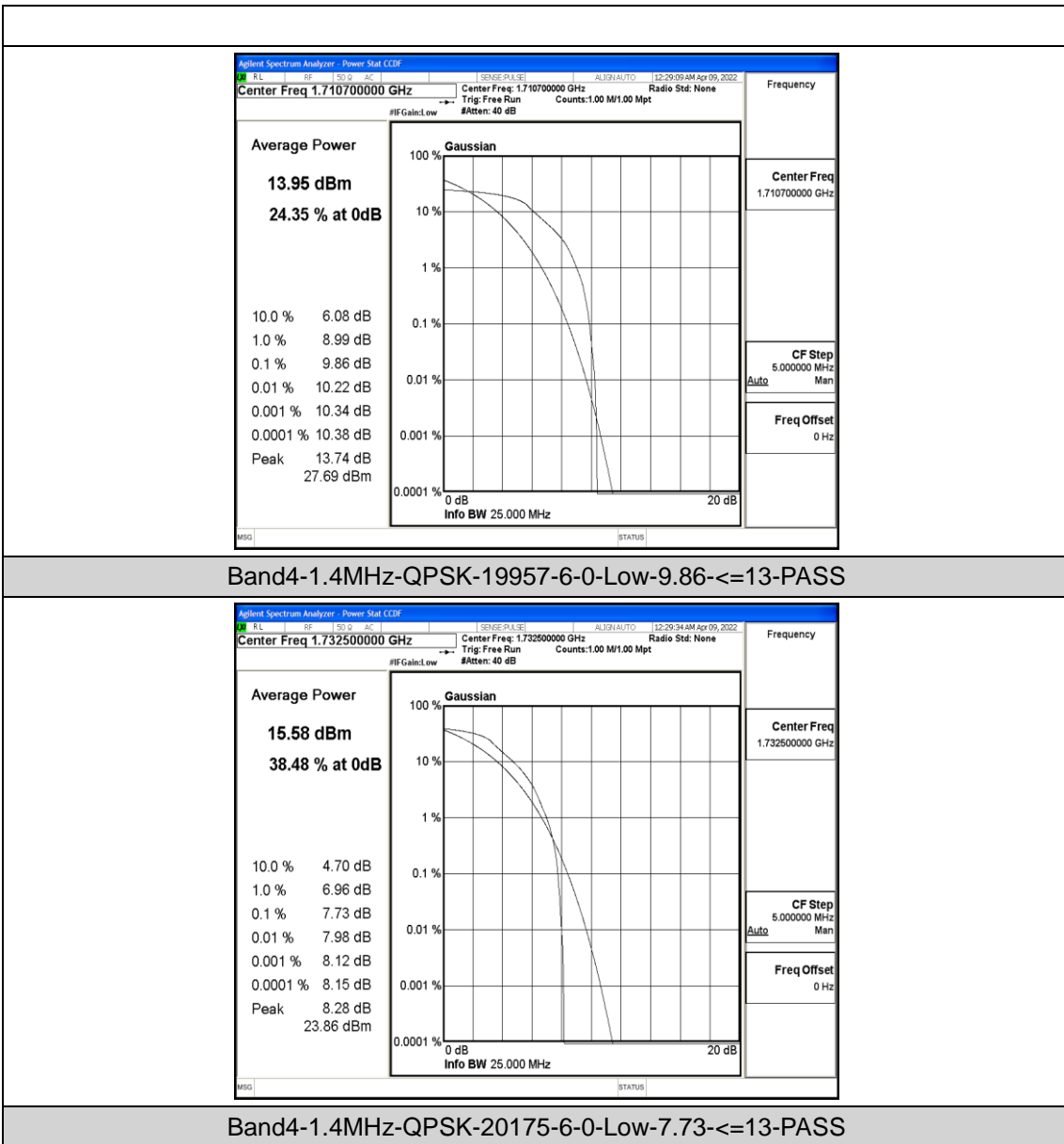
Band4	15MHz	20325	QPSK	6	0	High	20.66	PASS
Band4	15MHz	20025	16QAM	1	0	Low	20.89	PASS
Band4	15MHz	20025	16QAM	1	5	Low	20.75	PASS
Band4	15MHz	20025	16QAM	6	0	Low	20.62	PASS
Band4	15MHz	20175	16QAM	1	0	Low	19.99	PASS
Band4	15MHz	20175	16QAM	1	5	Low	19.80	PASS
Band4	15MHz	20175	16QAM	6	0	Low	19.82	PASS
Band4	15MHz	20325	16QAM	1	0	High	21.14	PASS
Band4	15MHz	20325	16QAM	1	5	High	20.98	PASS
Band4	15MHz	20325	16QAM	6	0	High	20.83	PASS
Band4	20MHz	20050	QPSK	1	0	Low	20.72	PASS
Band4	20MHz	20050	QPSK	1	5	Low	20.51	PASS
Band4	20MHz	20050	QPSK	6	0	Low	20.33	PASS
Band4	20MHz	20175	QPSK	1	0	Low	19.74	PASS
Band4	20MHz	20175	QPSK	1	5	Low	19.71	PASS
Band4	20MHz	20175	QPSK	6	0	Low	19.72	PASS
Band4	20MHz	20300	QPSK	1	0	High	20.91	PASS
Band4	20MHz	20300	QPSK	1	5	High	20.75	PASS
Band4	20MHz	20300	QPSK	6	0	High	20.53	PASS
Band4	20MHz	20050	16QAM	1	0	Low	20.65	PASS
Band4	20MHz	20050	16QAM	1	5	Low	20.58	PASS
Band4	20MHz	20050	16QAM	6	0	Low	20.45	PASS
Band4	20MHz	20175	16QAM	1	0	Low	19.95	PASS
Band4	20MHz	20175	16QAM	1	5	Low	19.81	PASS
Band4	20MHz	20175	16QAM	6	0	Low	19.81	PASS
Band4	20MHz	20300	16QAM	1	0	High	21.02	PASS
Band4	20MHz	20300	16QAM	1	5	High	20.83	PASS
Band4	20MHz	20300	16QAM	6	0	High	20.68	PASS

## C.2 Peak-to-Average Ratio(CCDF)

### Test Result

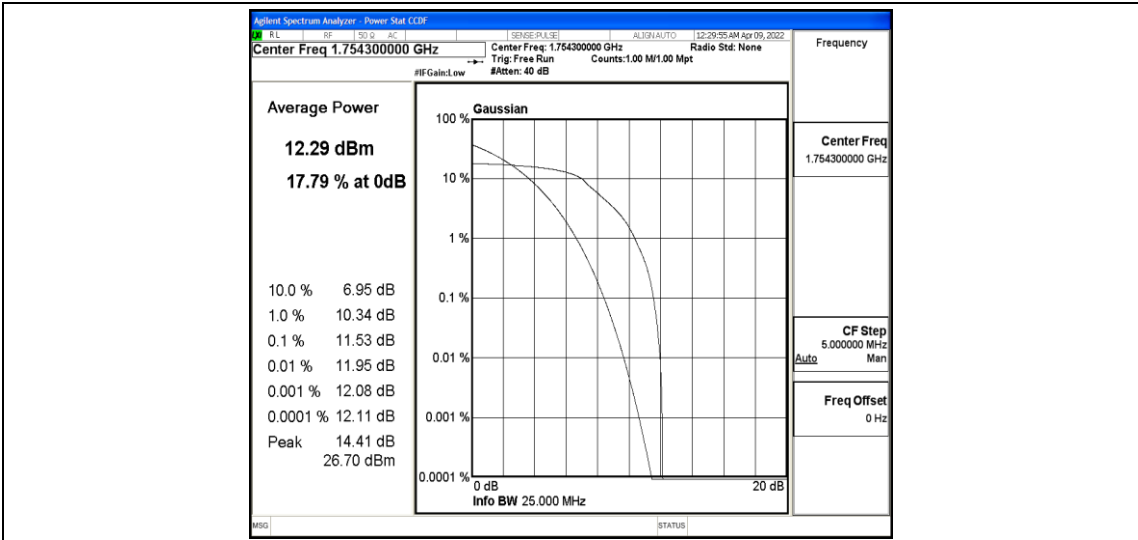
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	19957	QPSK	6	0	Low	9.86	<=13	PASS
Band4	1.4MHz	20175	QPSK	6	0	Low	7.73	<=13	PASS
Band4	1.4MHz	20393	QPSK	6	0	Low	11.53	<=13	PASS
Band4	1.4MHz	19957	16QAM	6	0	Low	11.74	<=13	PASS
Band4	1.4MHz	20175	16QAM	6	0	Low	9.20	<=13	PASS
Band4	1.4MHz	20393	16QAM	6	0	Low	11.57	<=13	PASS
Band4	3MHz	19965	QPSK	6	0	Low	8.27	<=13	PASS
Band4	3MHz	20175	QPSK	6	0	Low	10.38	<=13	PASS
Band4	3MHz	20385	QPSK	6	0	Low	10.88	<=13	PASS
Band4	3MHz	19965	16QAM	6	0	Low	8.72	<=13	PASS
Band4	3MHz	20175	16QAM	6	0	Low	8.35	<=13	PASS
Band4	3MHz	20385	16QAM	6	0	Low	10.88	<=13	PASS
Band4	5MHz	19975	QPSK	6	0	Low	9.71	<=13	PASS
Band4	5MHz	20175	QPSK	6	0	Low	8.53	<=13	PASS
Band4	5MHz	20375	QPSK	6	0	Low	9.85	<=13	PASS
Band4	5MHz	19975	16QAM	6	0	Low	10.75	<=13	PASS
Band4	5MHz	20175	16QAM	6	0	Low	8.07	<=13	PASS
Band4	5MHz	20375	16QAM	6	0	Low	8.04	<=13	PASS
Band4	10MHz	20000	QPSK	6	0	Low	9.48	<=13	PASS
Band4	10MHz	20175	QPSK	6	0	Low	9.62	<=13	PASS
Band4	10MHz	20350	QPSK	6	0	Low	8.96	<=13	PASS
Band4	10MHz	20000	16QAM	6	0	Low	8.69	<=13	PASS
Band4	10MHz	20175	16QAM	6	0	Low	8.73	<=13	PASS
Band4	10MHz	20350	16QAM	6	0	Low	8.98	<=13	PASS
Band4	15MHz	20025	QPSK	6	0	Low	9.47	<=13	PASS
Band4	15MHz	20175	QPSK	6	0	Low	8.44	<=13	PASS
Band4	15MHz	20325	QPSK	6	0	Low	9.24	<=13	PASS
Band4	15MHz	20025	16QAM	6	0	Low	8.10	<=13	PASS
Band4	15MHz	20175	16QAM	6	0	Low	9.70	<=13	PASS
Band4	15MHz	20325	16QAM	6	0	Low	7.45	<=13	PASS
Band4	20MHz	20050	QPSK	6	0	Low	11.36	<=13	PASS
Band4	20MHz	20175	QPSK	6	0	Low	9.40	<=13	PASS
Band4	20MHz	20300	QPSK	6	0	Low	9.16	<=13	PASS
Band4	20MHz	20050	16QAM	6	0	Low	9.93	<=13	PASS
Band4	20MHz	20175	16QAM	6	0	Low	8.74	<=13	PASS
Band4	20MHz	20300	16QAM	6	0	Low	10.41	<=13	PASS

Test Graphs

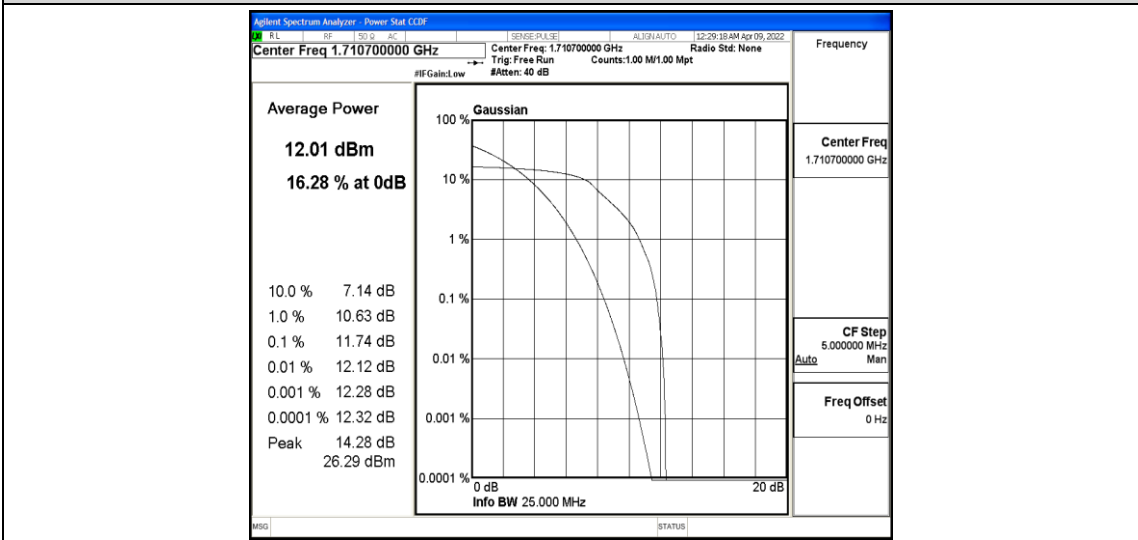


Band4-1.4MHz-QPSK-19957-6-0-Low-9.86-<=13-PASS

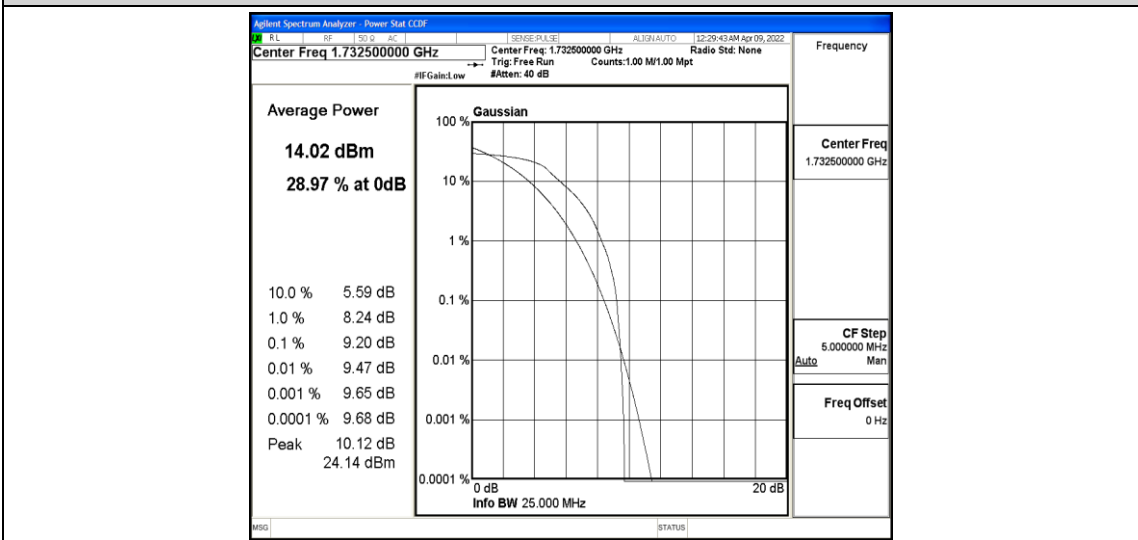
Band4-1.4MHz-QPSK-20175-6-0-Low-7.73-<=13-PASS



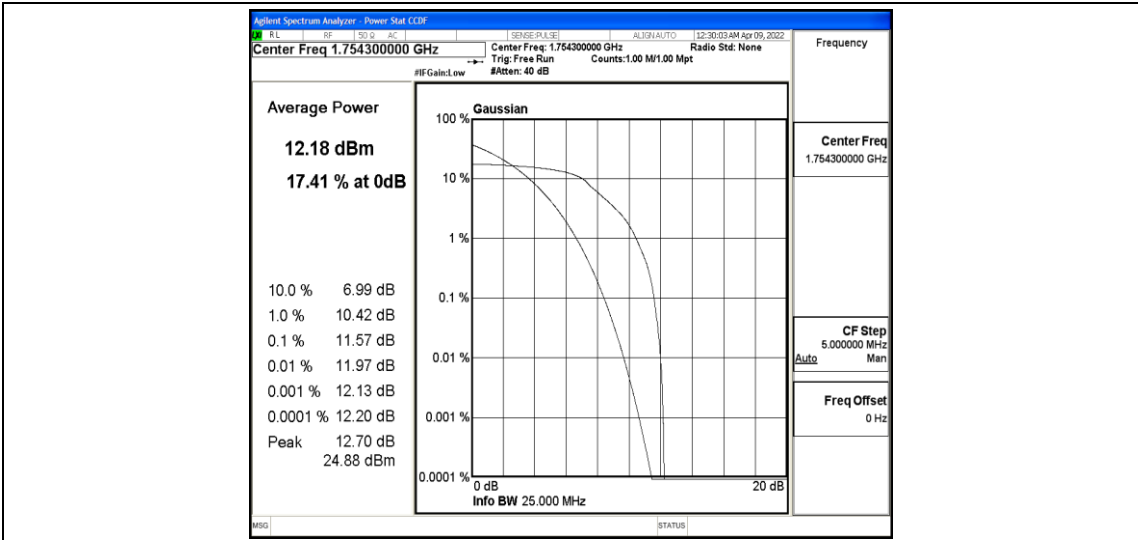
Band4-1.4MHz-QPSK-20393-6-0-Low-11.53-<=13-PASS



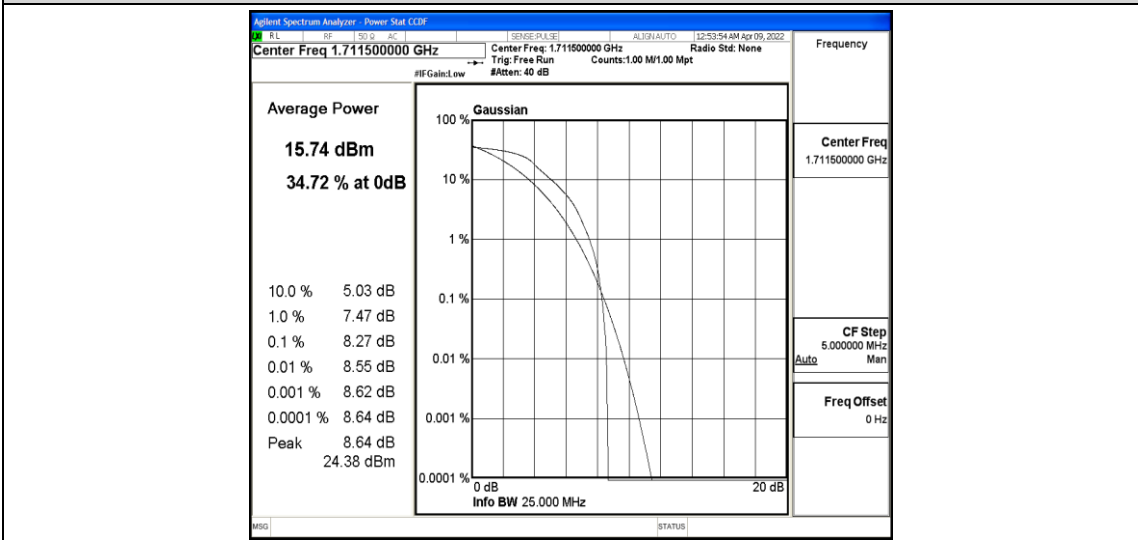
Band4-1.4MHz-16QAM-19957-6-0-Low-11.74-<=13-PASS



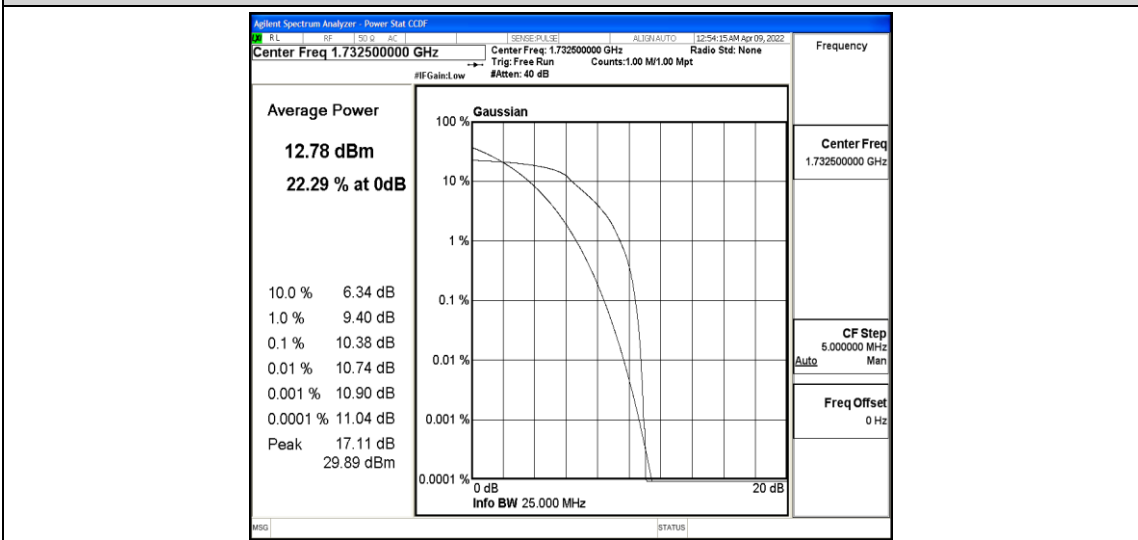
Band4-1.4MHz-16QAM-20175-6-0-Low-9.20-<=13-PASS



Band4-1.4MHz-16QAM-20393-6-0-Low-11.57-<=13-PASS

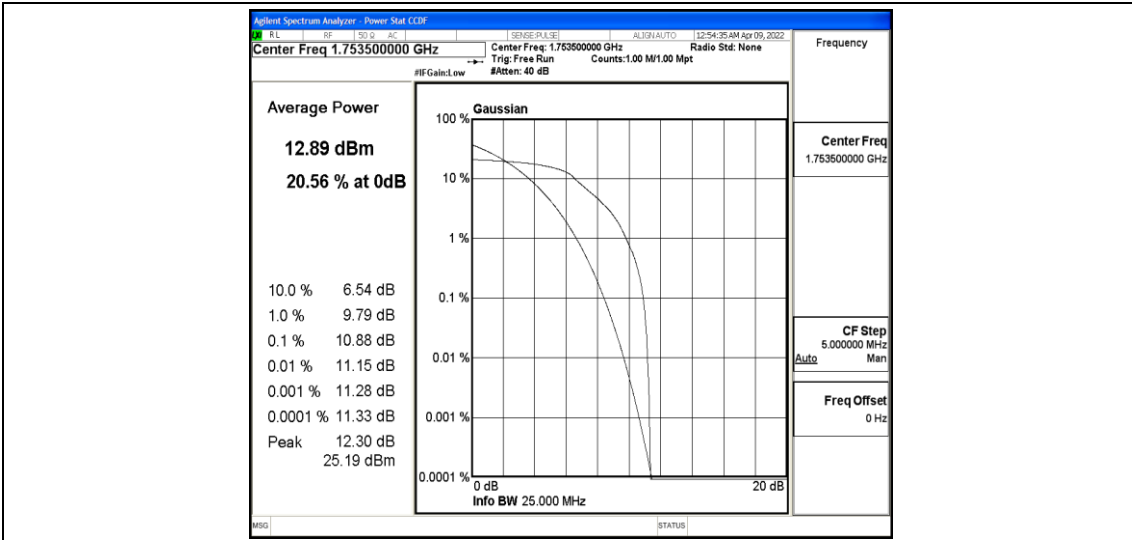


Band4-3MHz-QPSK-19965-6-0-Low-8.27-<=13-PASS

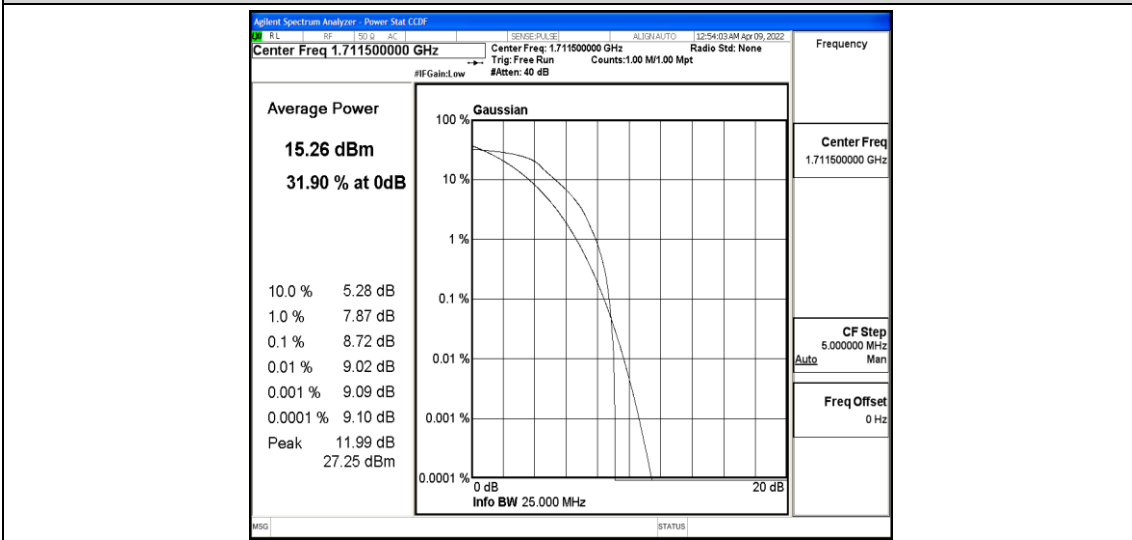


Band4-3MHz-QPSK-20175-6-0-Low-10.38-<=13-PASS

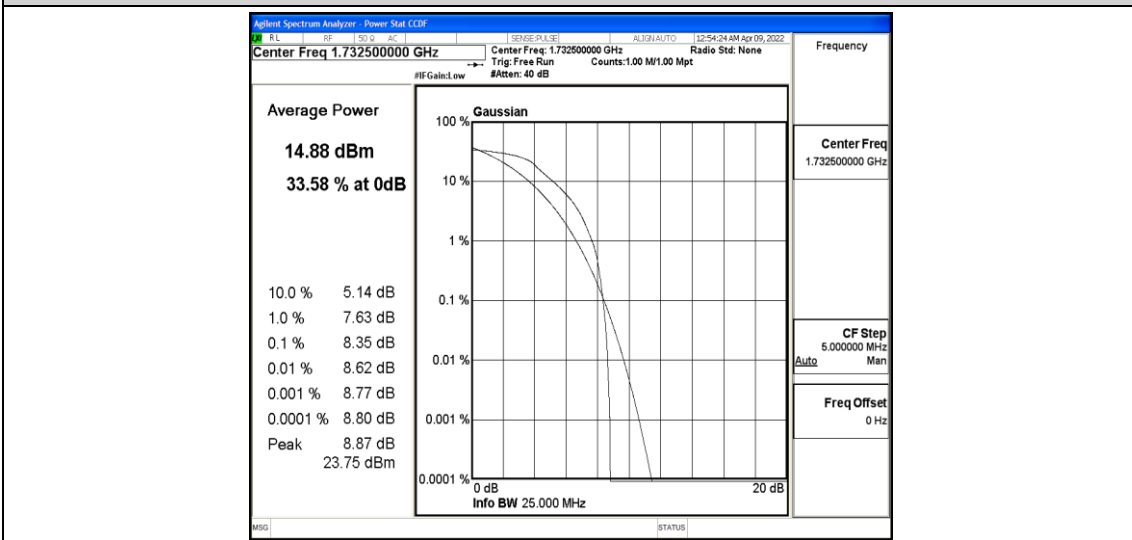




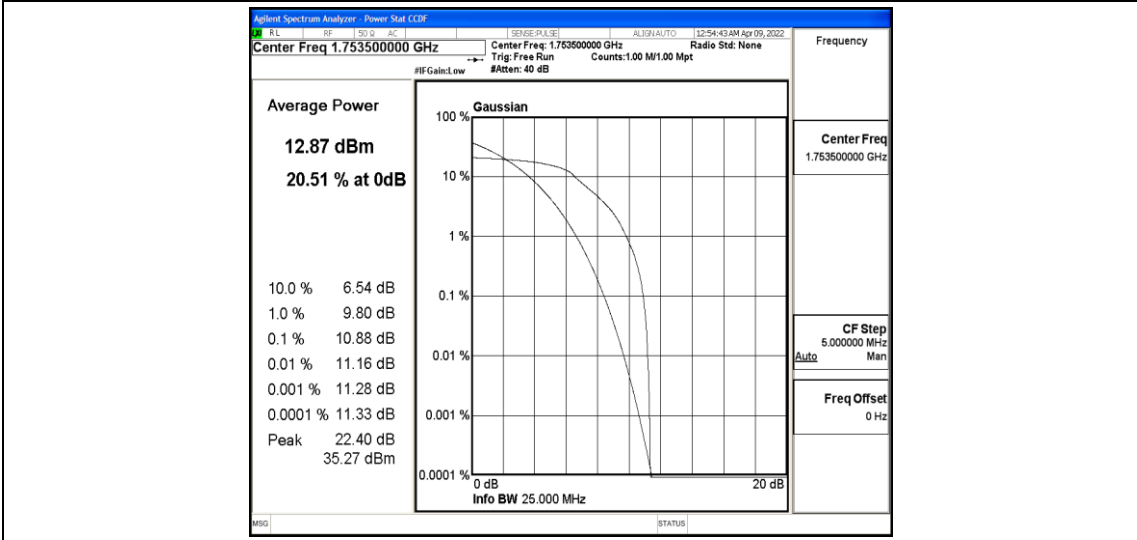
Band4-3MHz-QPSK-20385-6-0-Low-10.88-<=13-PASS



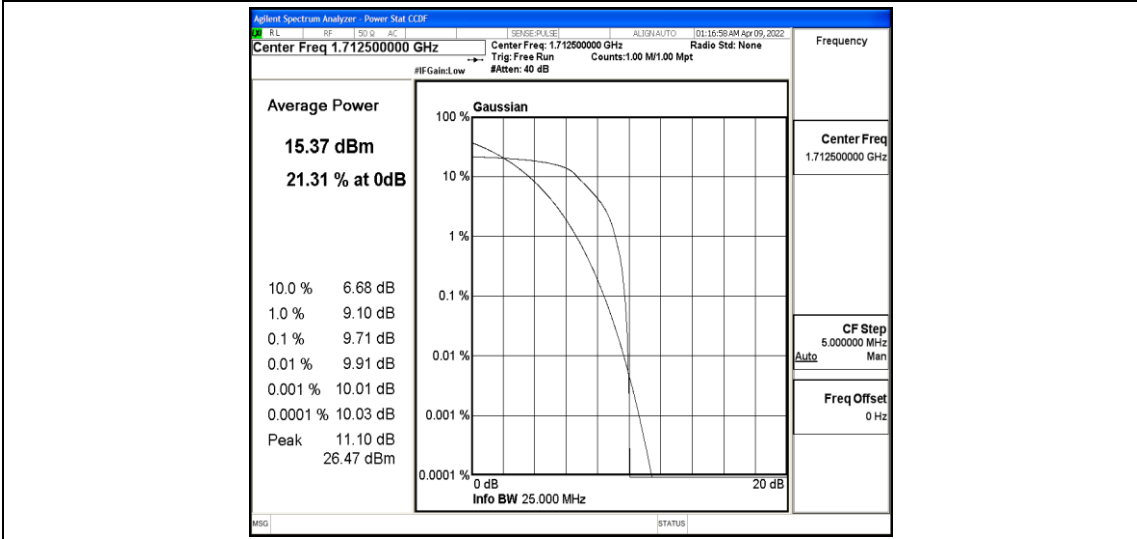
Band4-3MHz-16QAM-19965-6-0-Low-8.72-<=13-PASS



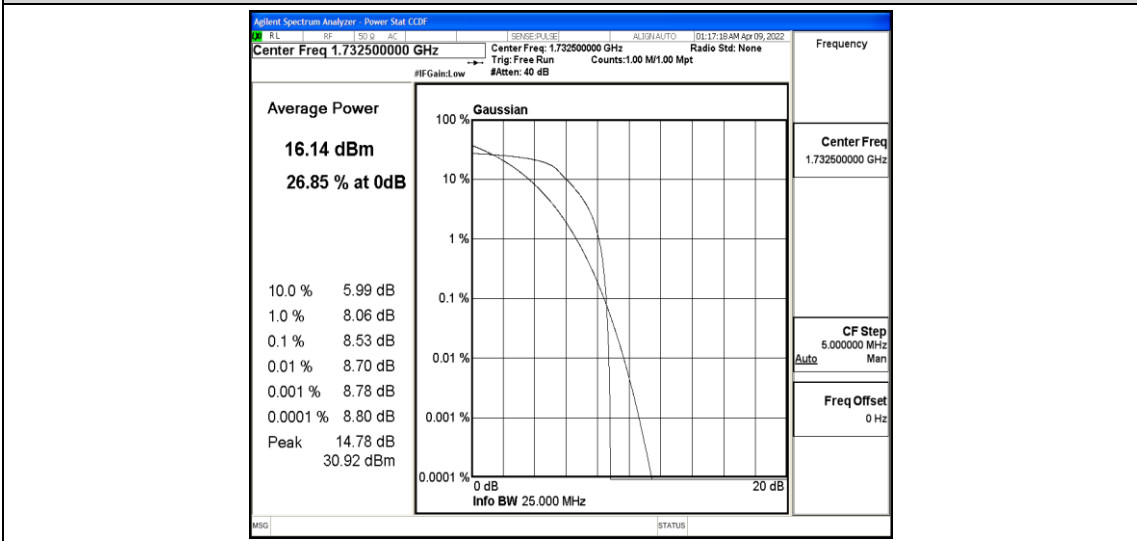
Band4-3MHz-16QAM-20175-6-0-Low-8.35-<=13-PASS



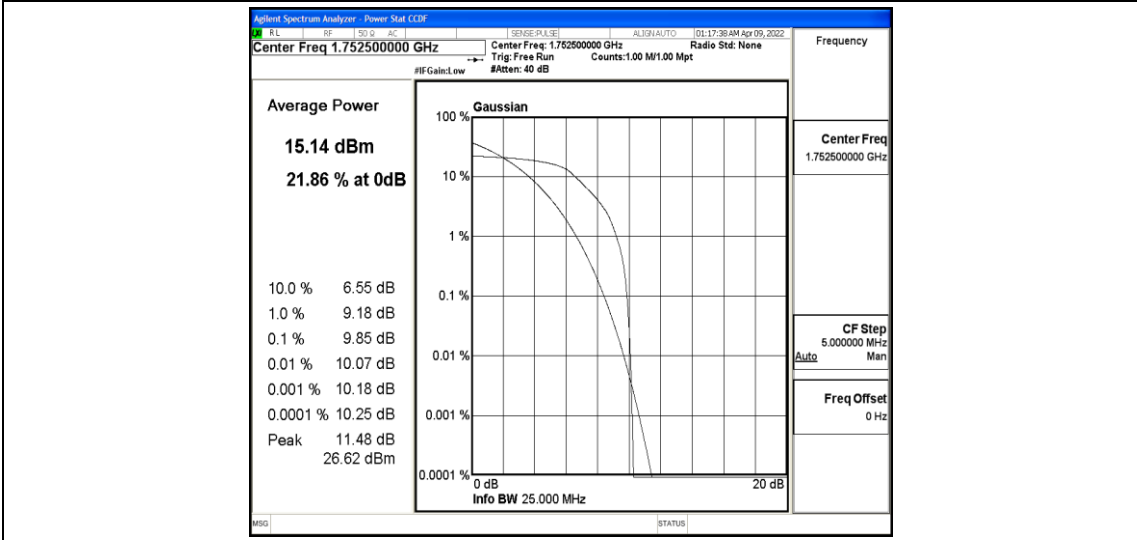
Band4-3MHz-16QAM-20385-6-0-Low-10.88-<=13-PASS



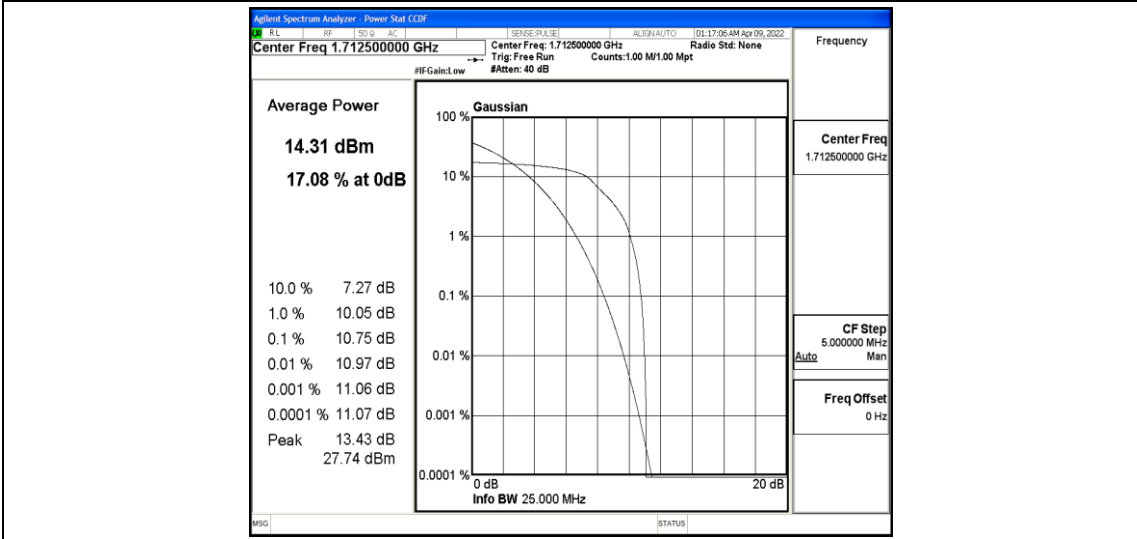
Band4-5MHz-QPSK-19975-6-0-Low-9.71-<=13-PASS



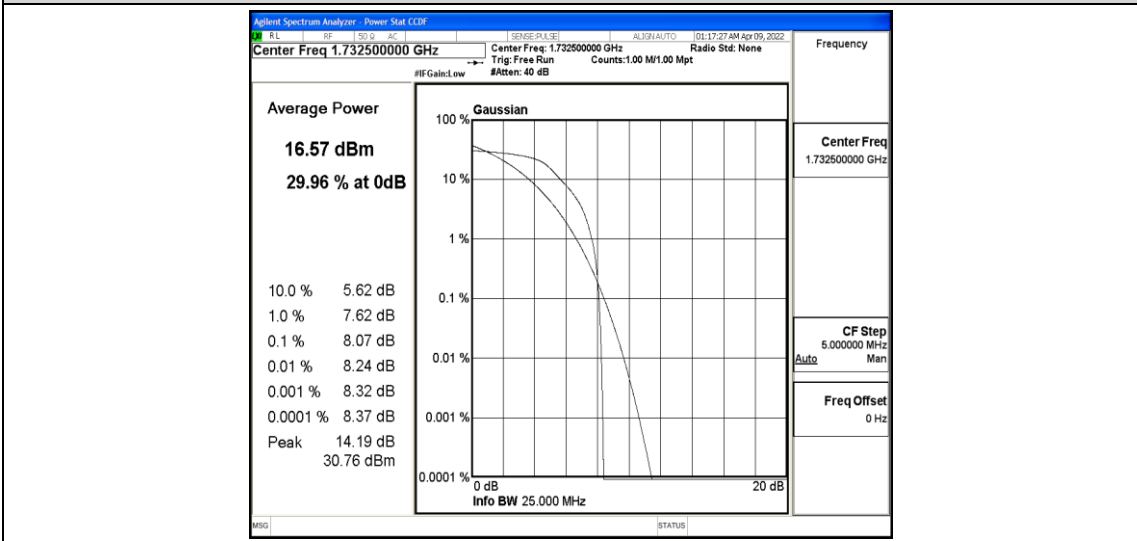
Band4-5MHz-QPSK-20175-6-0-Low-8.53-<=13-PASS



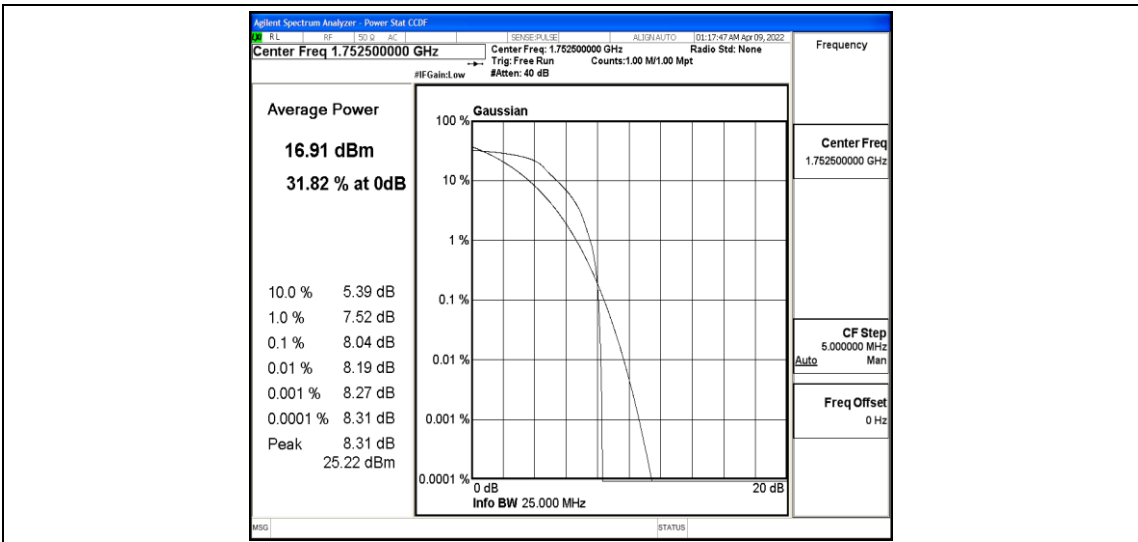
Band4-5MHz-QPSK-20375-6-0-Low-9.85-<=13-PASS



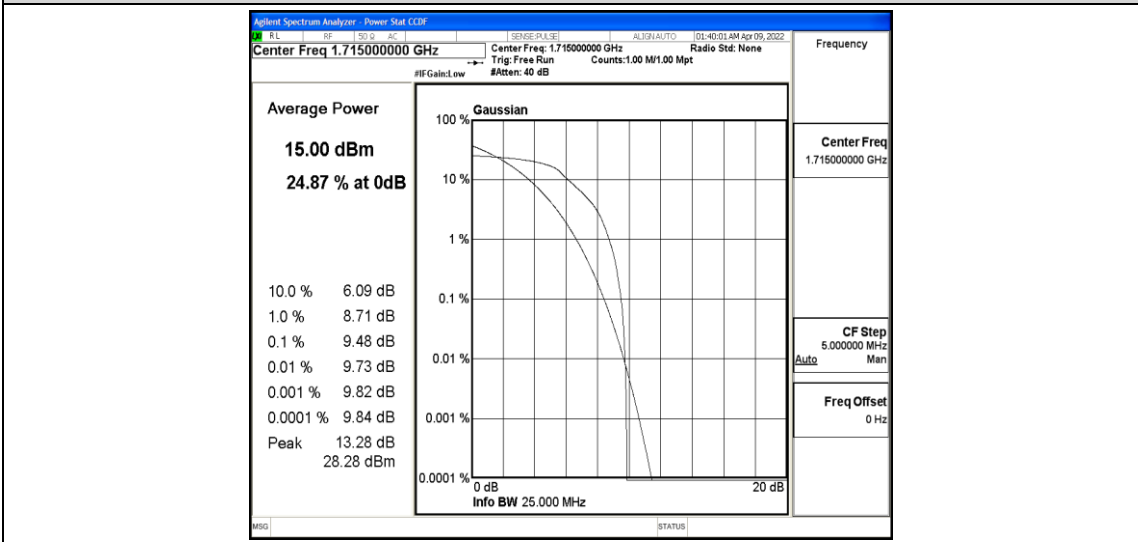
Band4-5MHz-16QAM-19975-6-0-Low-10.75-<=13-PASS



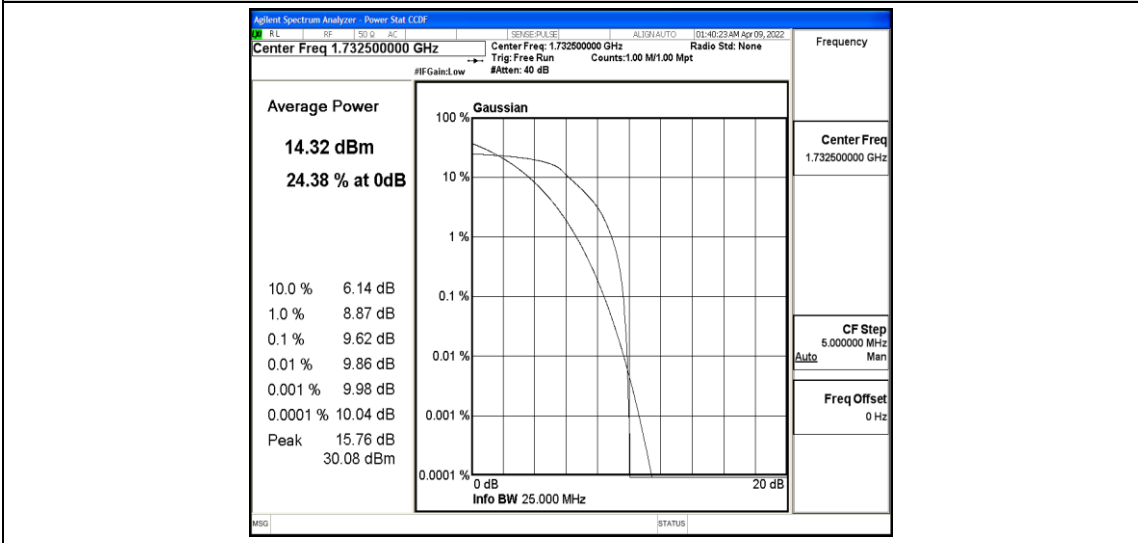
Band4-5MHz-16QAM-20175-6-0-Low-8.07-<=13-PASS



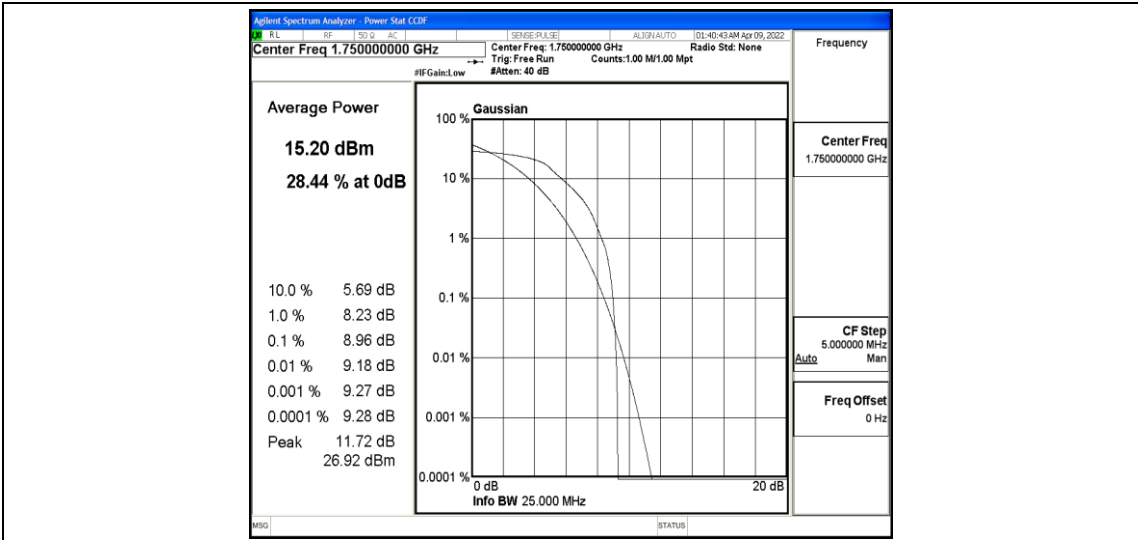
Band4-5MHz-16QAM-20375-6-0-Low-8.04-<=13-PASS



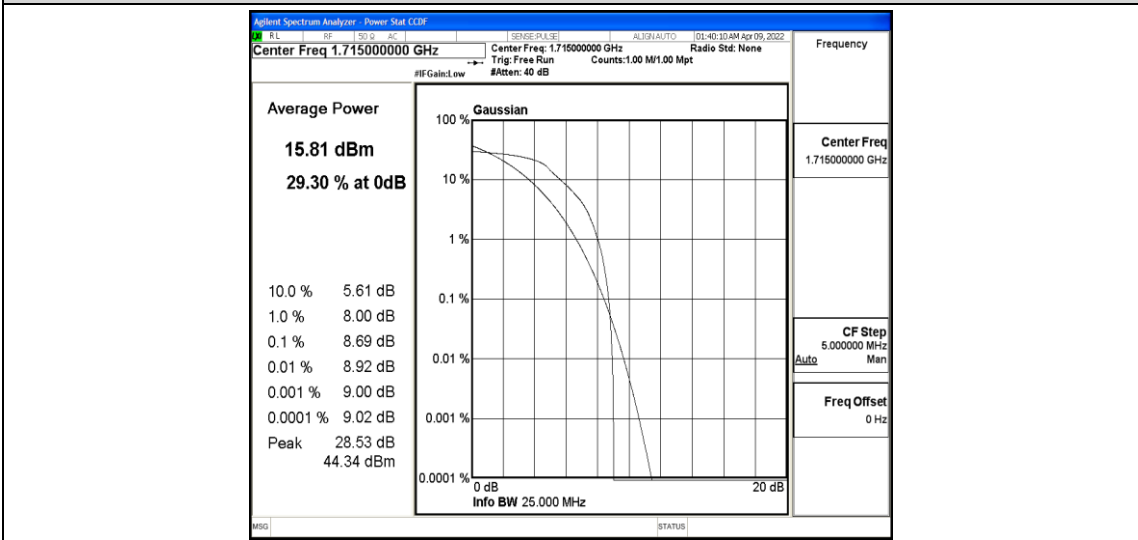
Band4-10MHz-QPSK-20000-6-0-Low-9.48-<=13-PASS



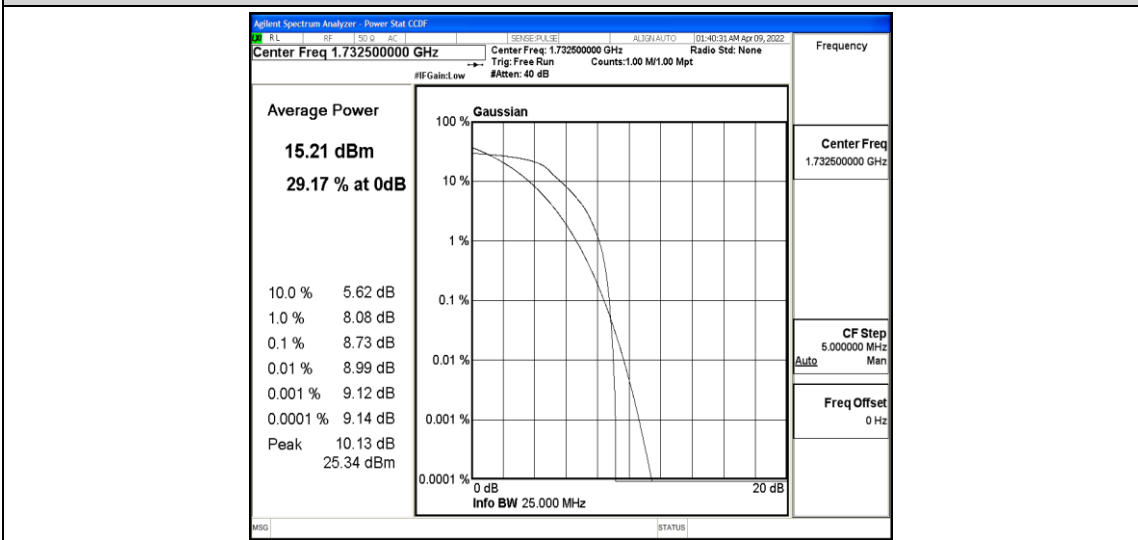
Band4-10MHz-QPSK-20175-6-0-Low-9.62-<=13-PASS



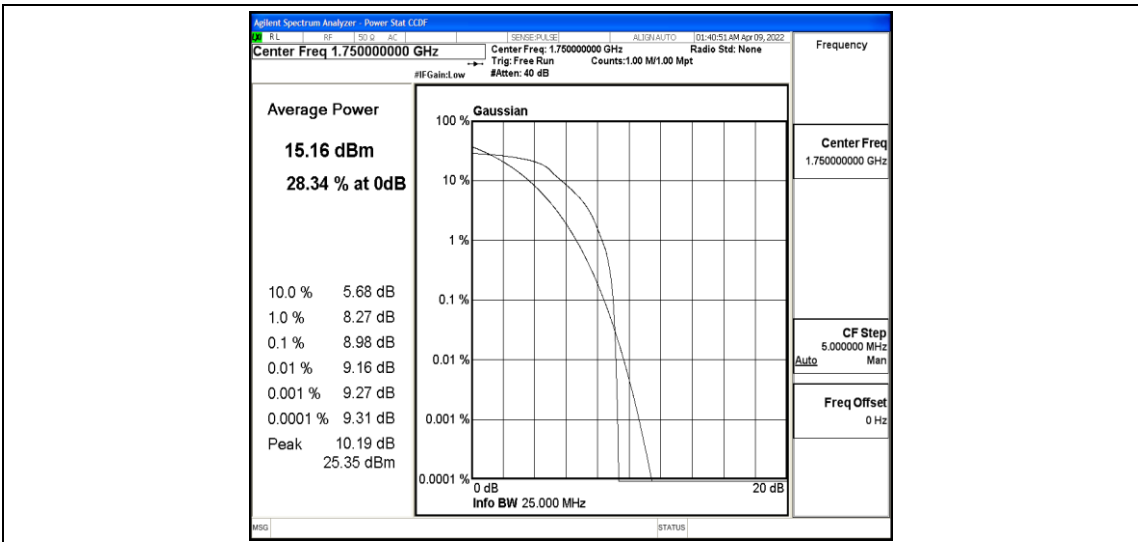
Band4-10MHz-QPSK-20350-6-0-Low-8.96-<=13-PASS



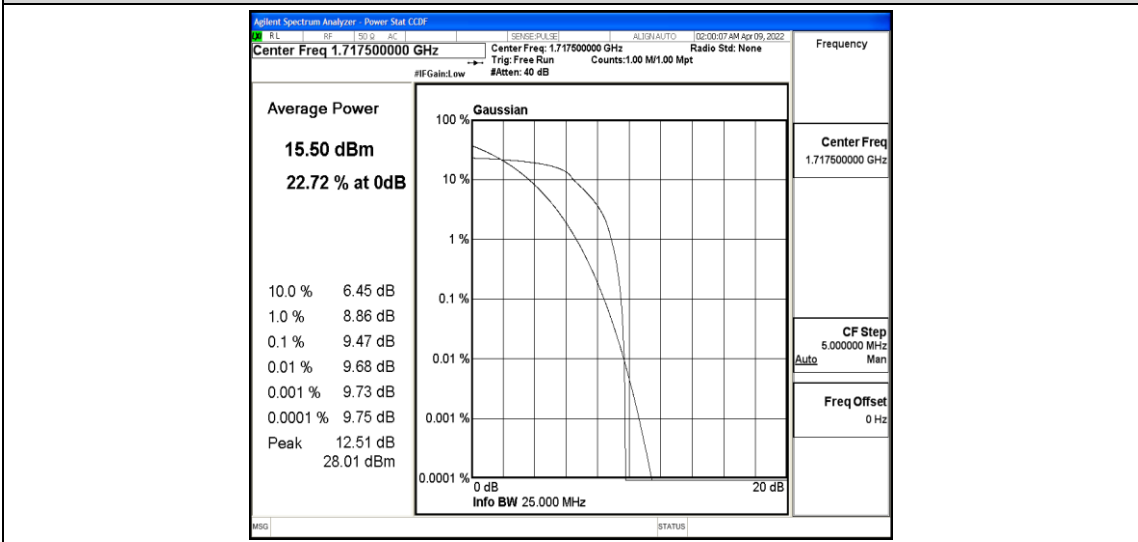
Band4-10MHz-16QAM-20000-6-0-Low-8.69-<=13-PASS



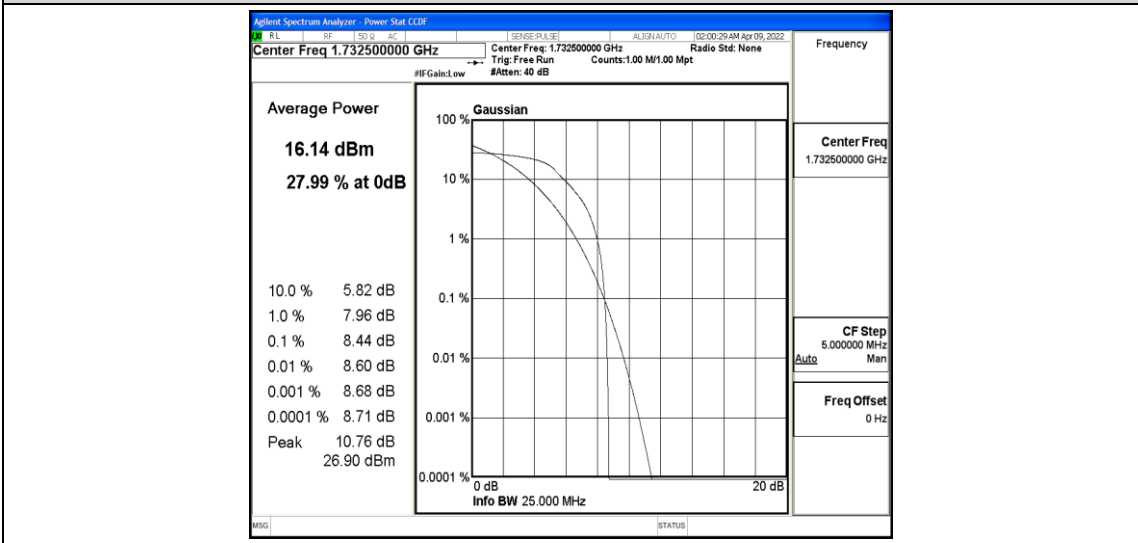
Band4-10MHz-16QAM-20175-6-0-Low-8.73-<=13-PASS



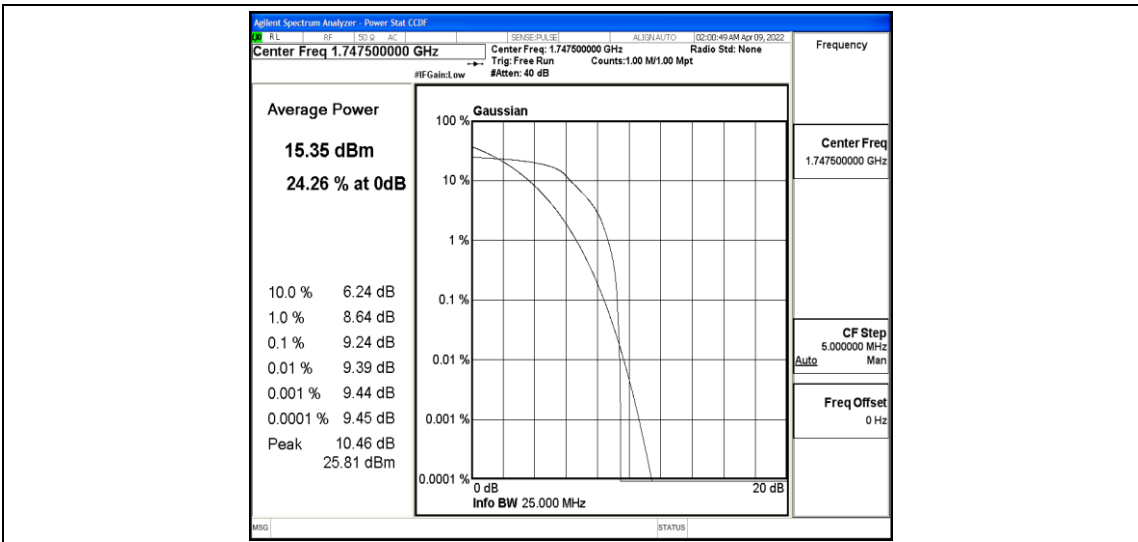
Band4-10MHz-16QAM-20350-6-0-Low-8.98-=<=13-PASS



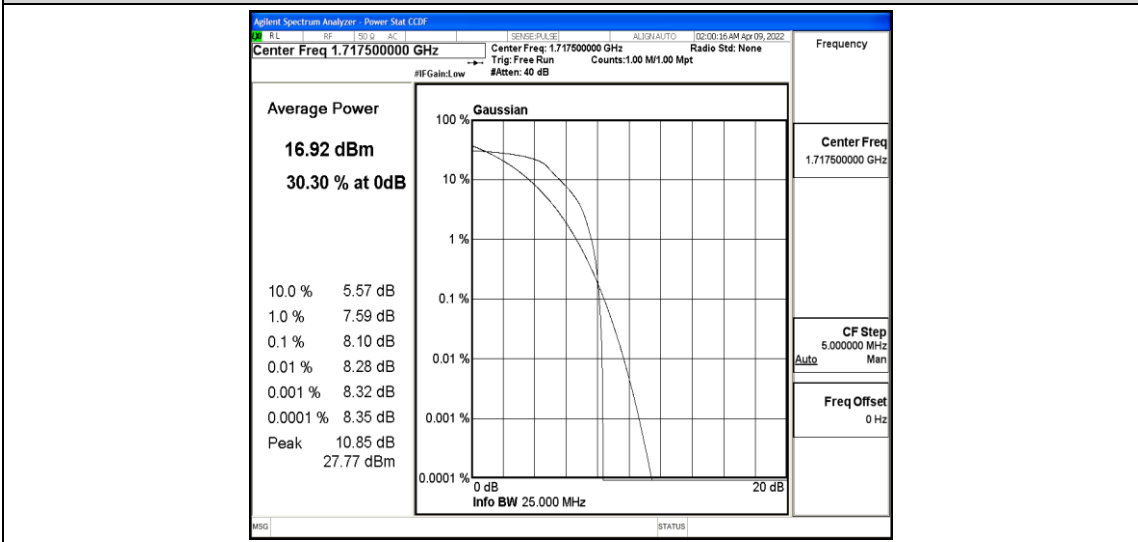
Band4-15MHz-QPSK-20025-6-0-Low-9.47-=<=13-PASS



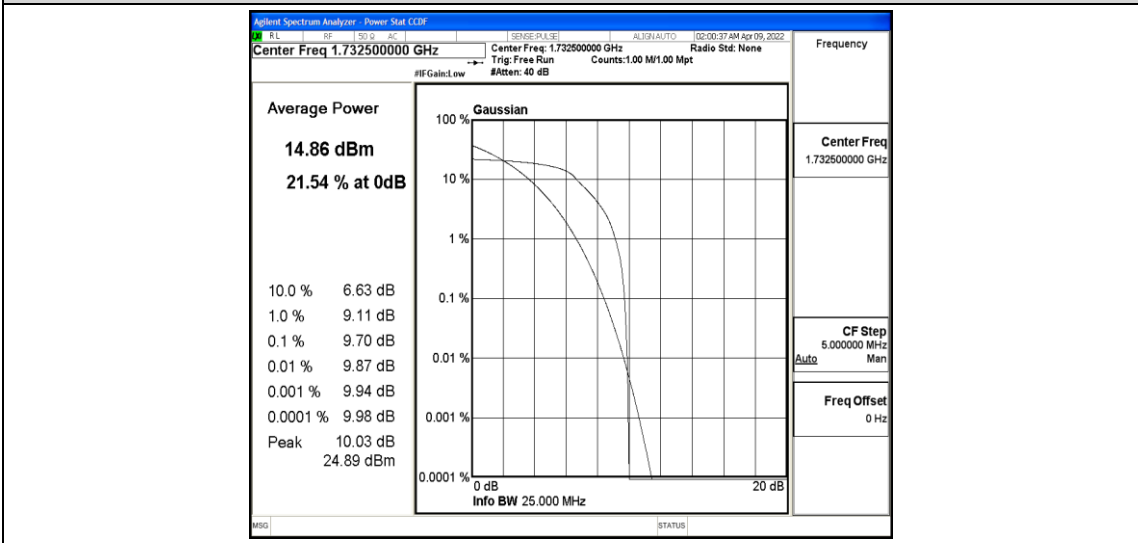
Band4-15MHz-QPSK-20175-6-0-Low-8.44-=<=13-PASS



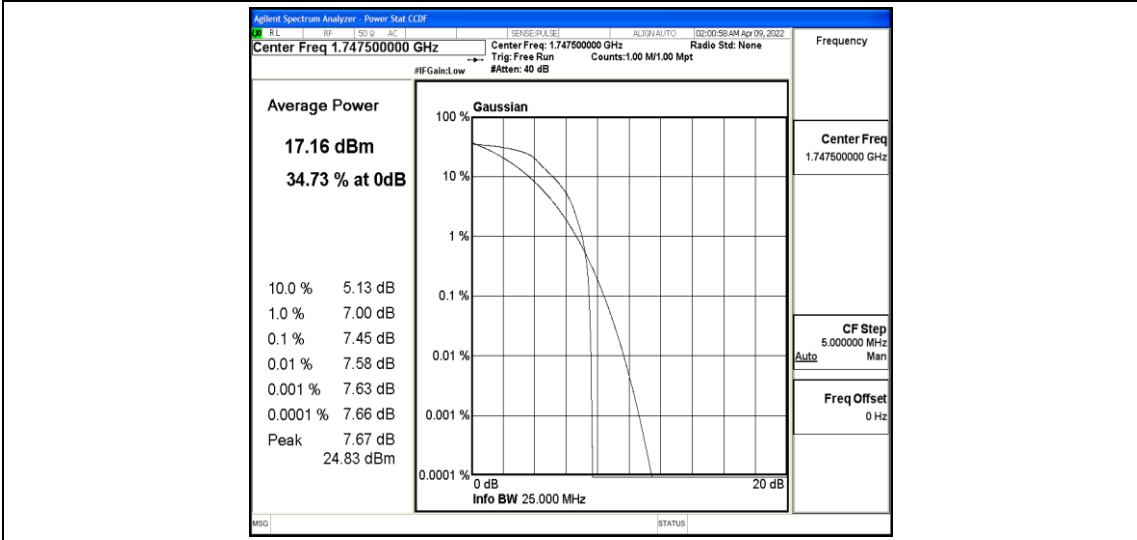
Band4-15MHz-QPSK-20325-6-0-Low-9.24-<=13-PASS



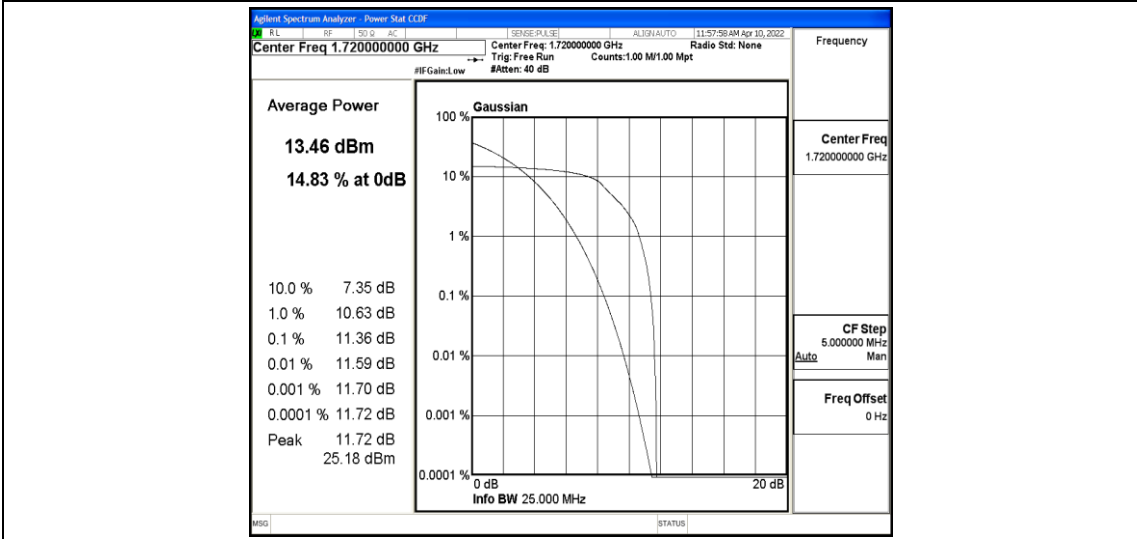
Band4-15MHz-16QAM-20025-6-0-Low-8.10-<=13-PASS



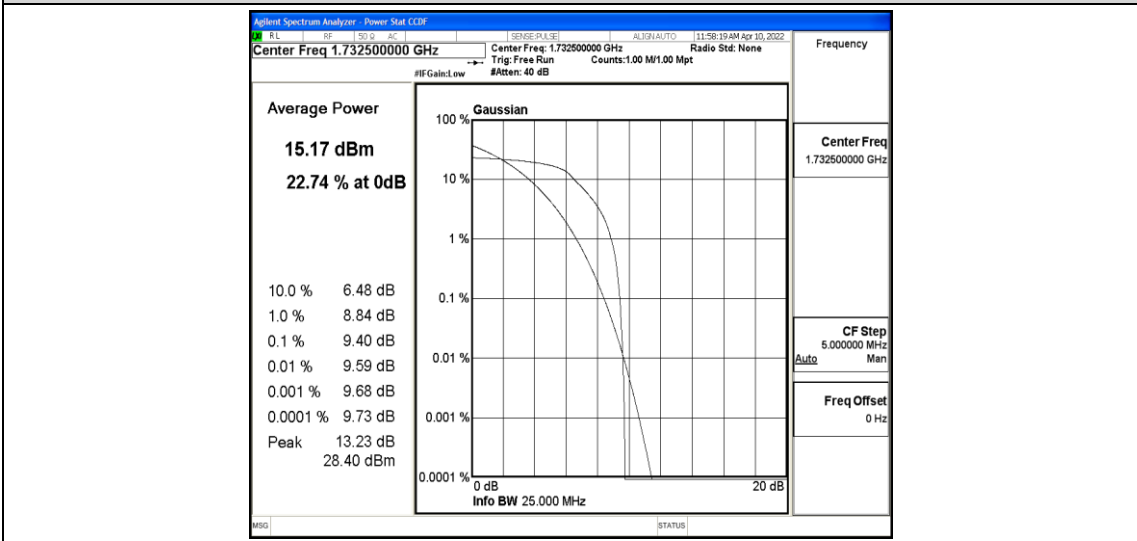
Band4-15MHz-16QAM-20175-6-0-Low-9.70-<=13-PASS



Band4-15MHz-16QAM-20325-6-0-Low-7.45-<=13-PASS

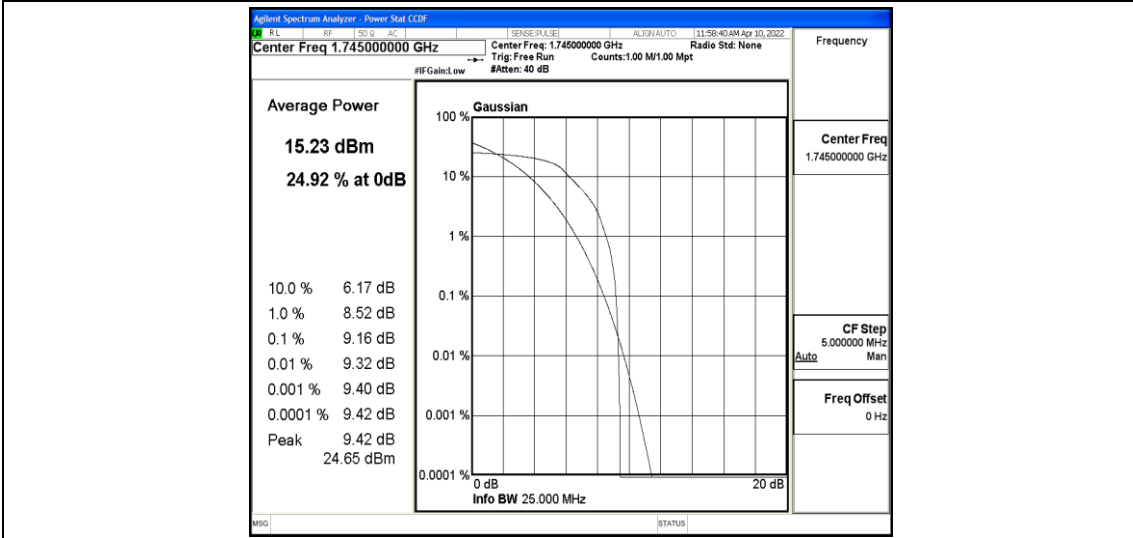


Band4-20MHz-QPSK-20050-6-0-Low-11.36-<=13-PASS

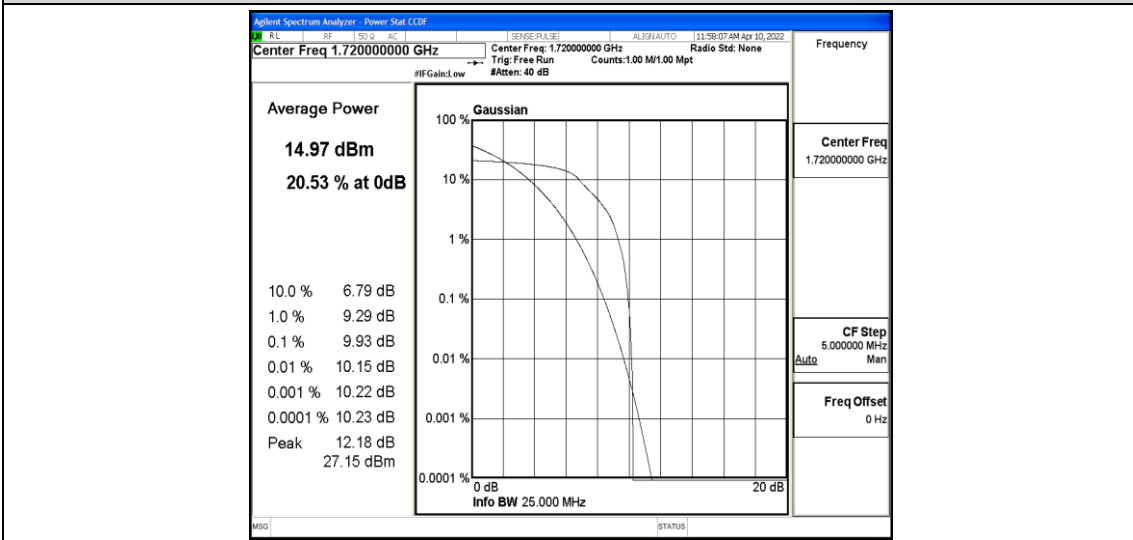


Band4-20MHz-QPSK-20175-6-0-Low-9.40-<=13-PASS

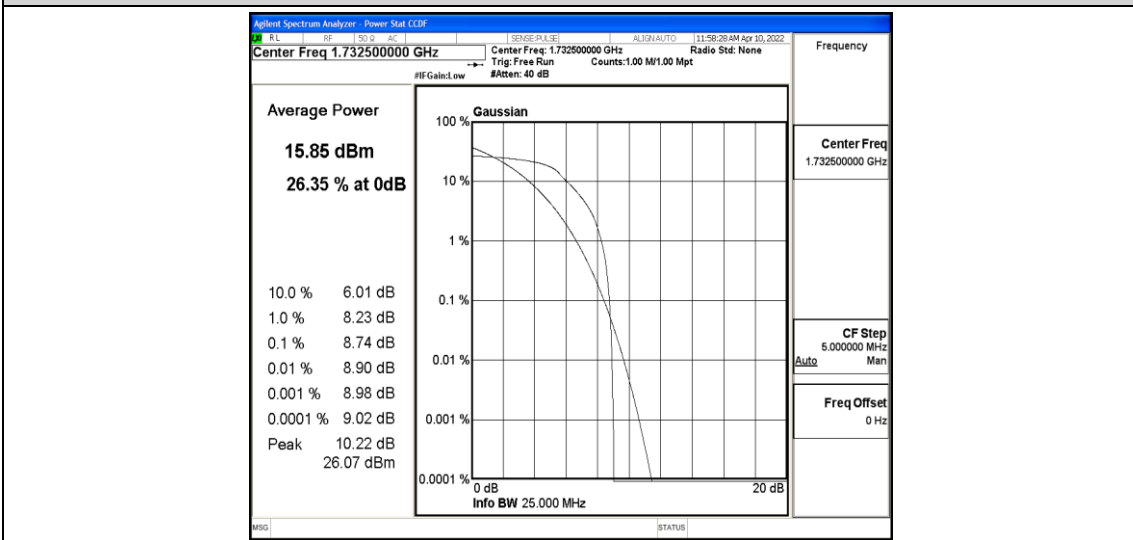




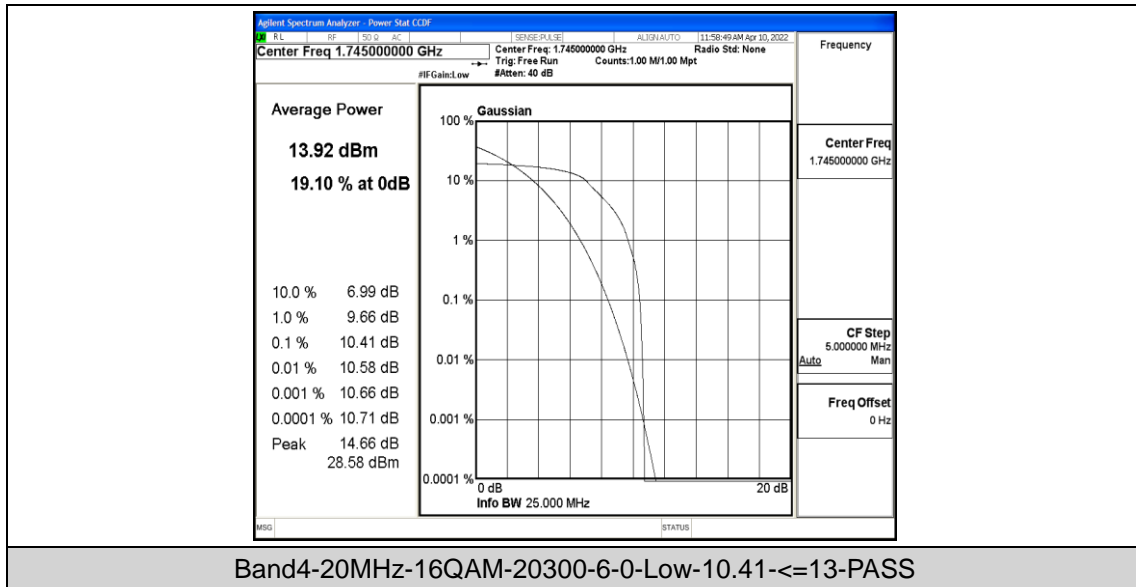
Band4-20MHz-QPSK-20300-6-0-Low-9.16-<=13-PASS



Band4-20MHz-16QAM-20050-6-0-Low-9.93-<=13-PASS



Band4-20MHz-16QAM-20175-6-0-Low-8.74-<=13-PASS



### C.3 26dB Bandwidth and Occupied Bandwidth

#### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0935	1.094	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.1233	1.123	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0921	1.092	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1006	1.101	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1100	1.110	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.1000	1.100	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6929	2.693	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7083	2.708	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6898	2.690	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6856	2.686	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6923	2.692	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6788	2.679	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4975	4.497	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5257	4.526	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5078	4.508	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4958	4.496	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5130	4.513	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.4959	4.496	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9765	8.976	PASS
Band4	10MHz	QPSK	20175	50RB#0	9.0669	9.067	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9989	8.999	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9837	8.984	PASS
Band4	10MHz	16QAM	20175	50RB#0	9.0406	9.041	PASS
Band4	10MHz	16QAM	20350	50RB#0	9.0037	9.004	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.515	13.51	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.645	13.65	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.546	13.55	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.485	13.48	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.578	13.58	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.502	13.50	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.034	18.03	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.104	18.10	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.012	18.01	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.011	18.01	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.082	18.08	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.981	17.98	PASS

Test Graphs



Band4-1.4MHz-QPSK-19957-6RB#0-1.0935



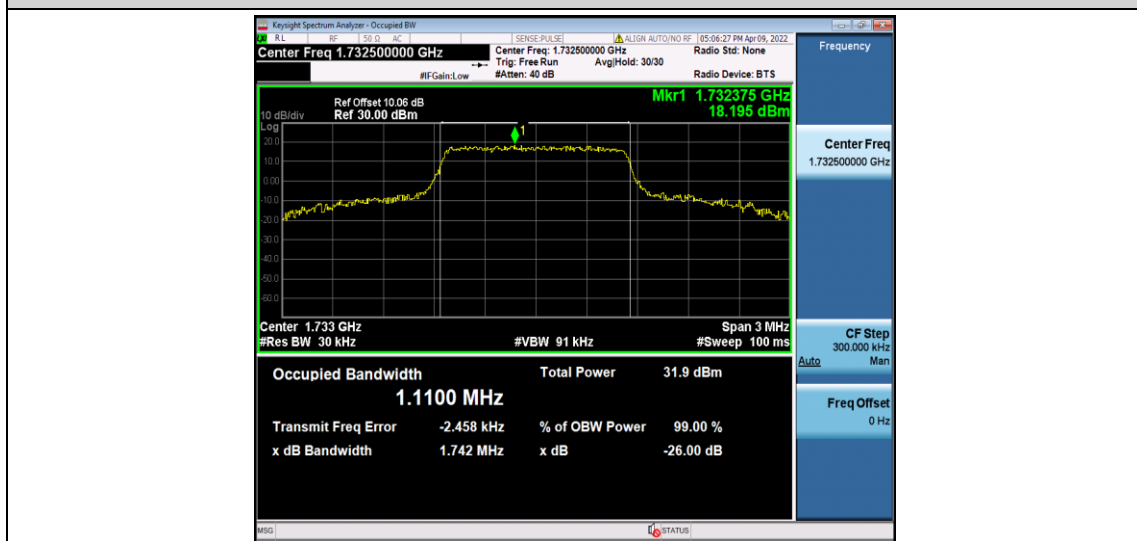
Band4-1.4MHz-QPSK-20175-6RB#0-1.1233



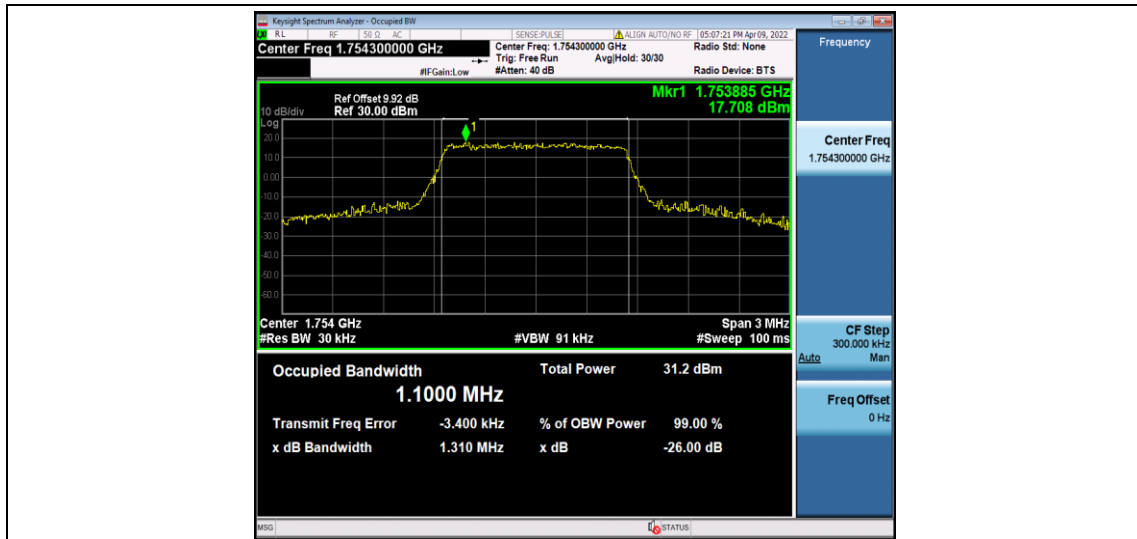
Band4-1.4MHz-QPSK-20393-6RB#0-1.0921



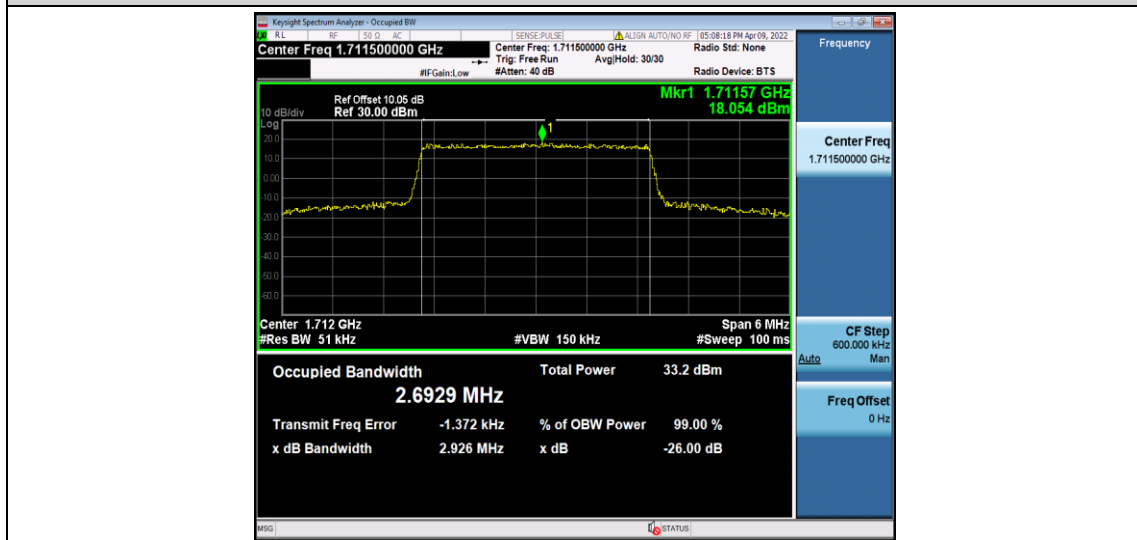
Band4-1.4MHz-16QAM-19957-6RB#0-1.1006



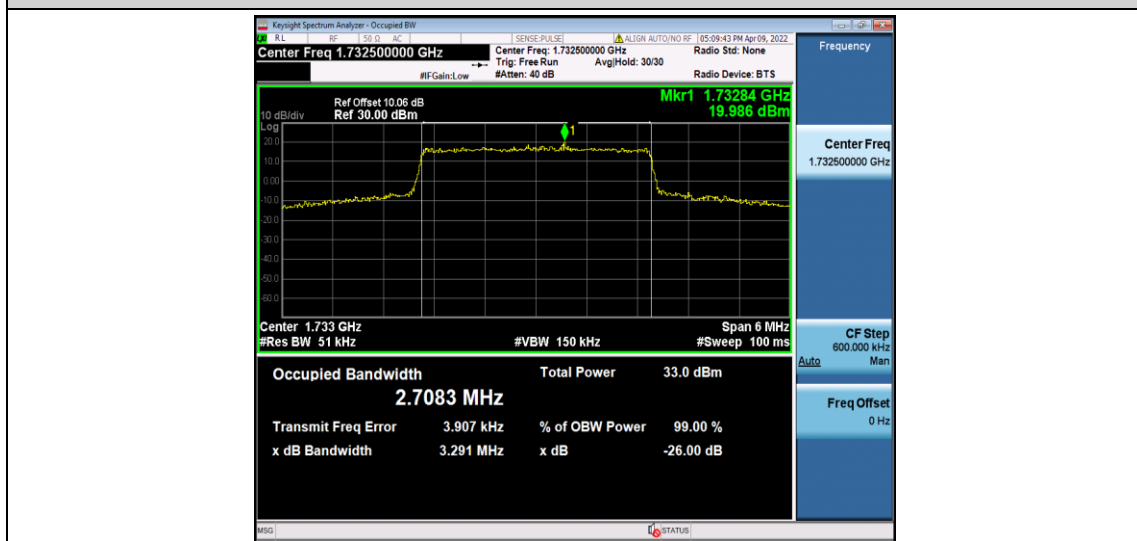
Band4-1.4MHz-16QAM-20175-6RB#0-1.1100



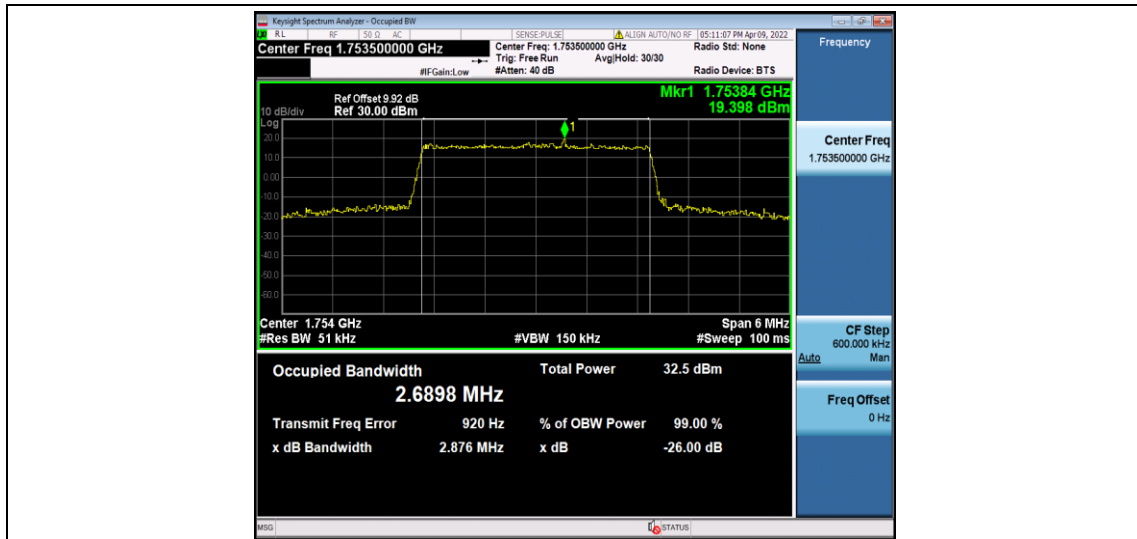
Band4-1.4MHz-16QAM-20393-6RB#0-1.1000



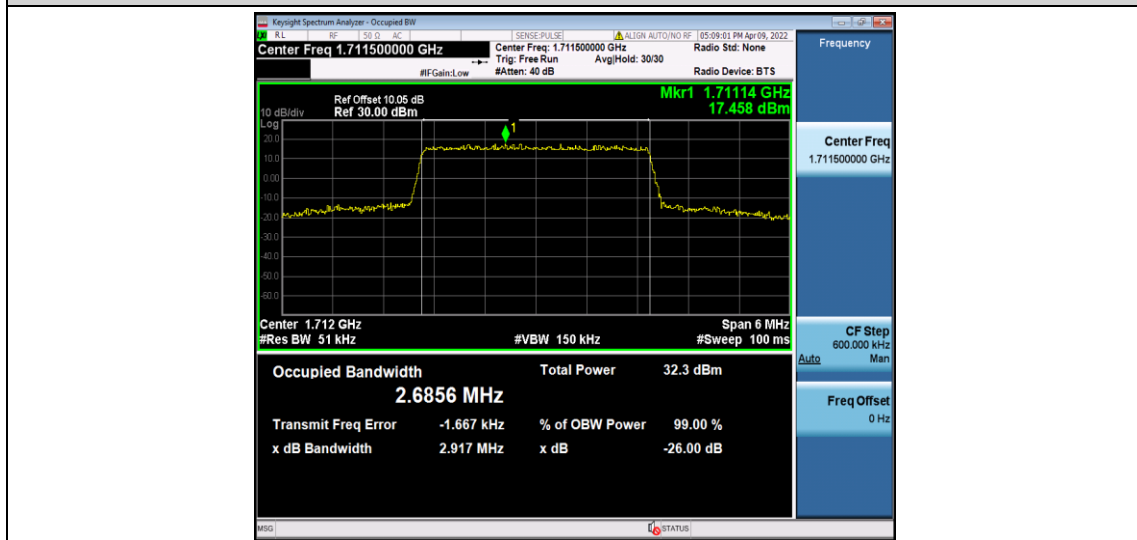
Band4-3MHz-QPSK-19965-15RB#0-2.6929



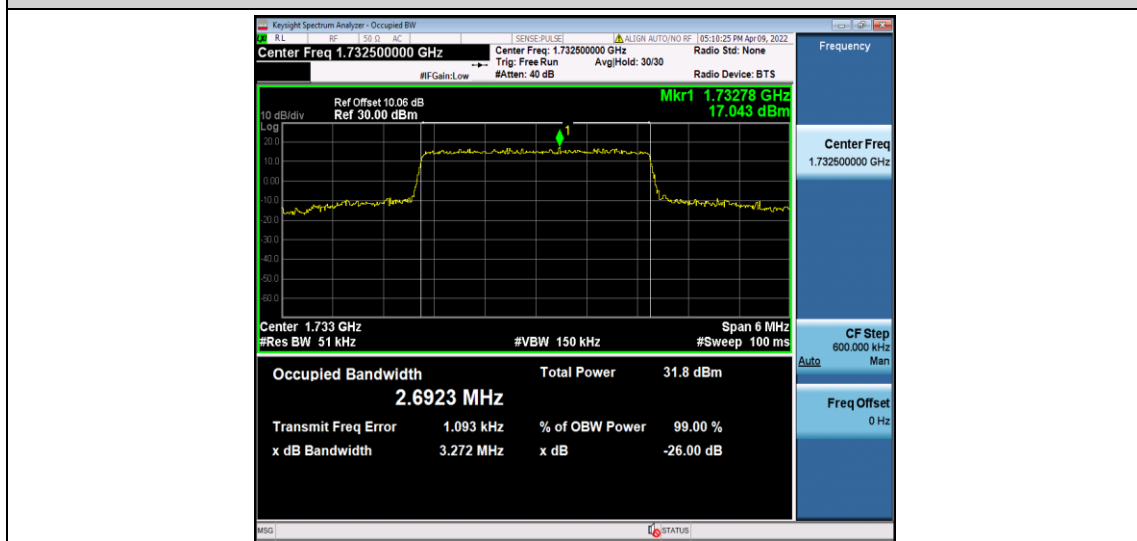
Band4-3MHz-QPSK-20175-15RB#0-2.7083



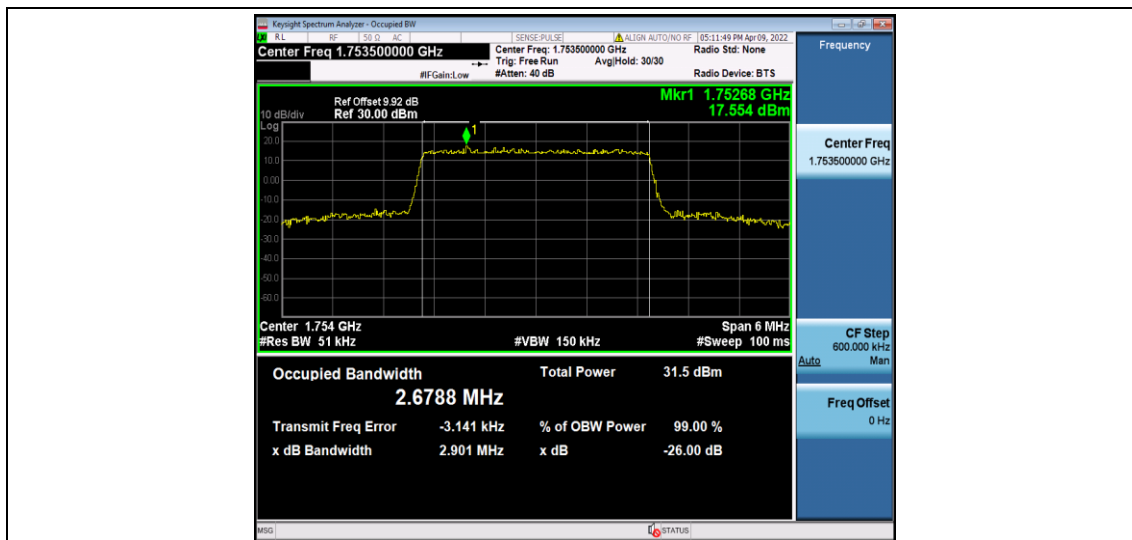
Band4-3MHz-QPSK-20385-15RB#0-2.6898



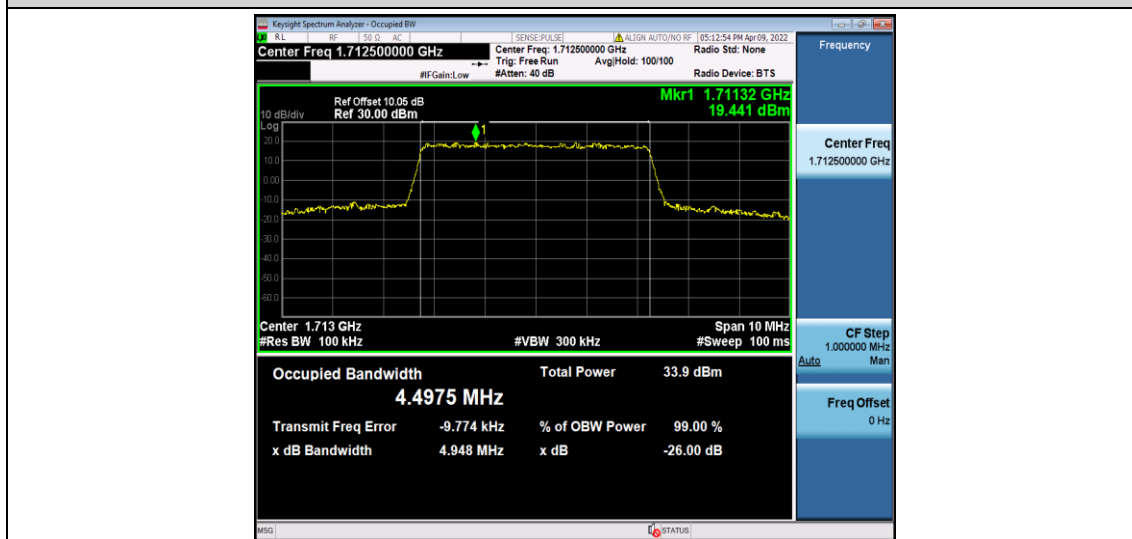
Band4-3MHz-16QAM-19965-15RB#0-2.6856



Band4-3MHz-16QAM-20175-15RB#0-2.6923



Band4-3MHz-16QAM-20385-15RB#0-2.6788



Band4-5MHz-QPSK-19975-25RB#0-4.4975

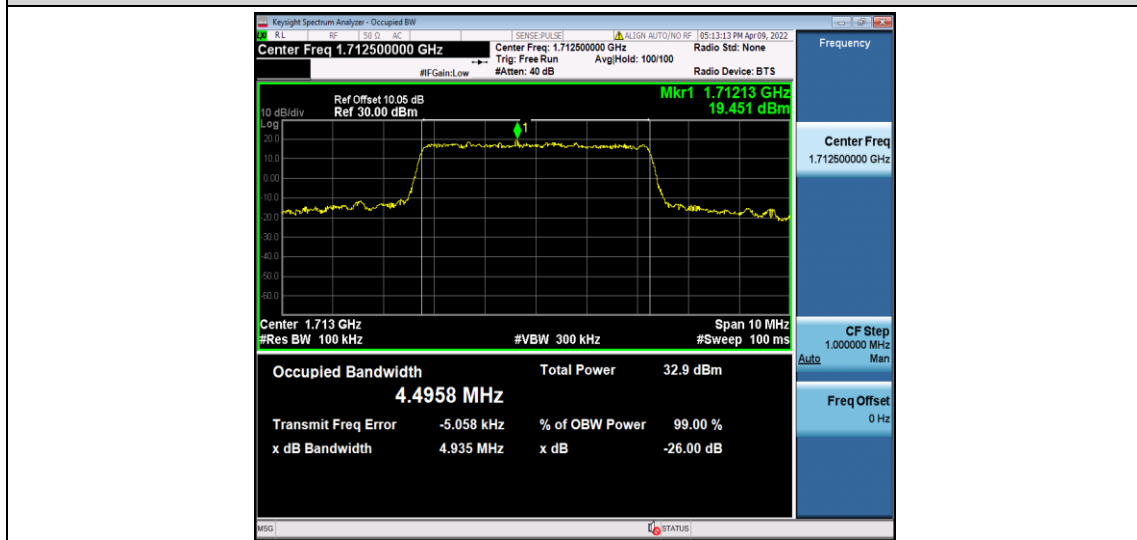


Band4-5MHz-QPSK-20175-25RB#0-4.5257

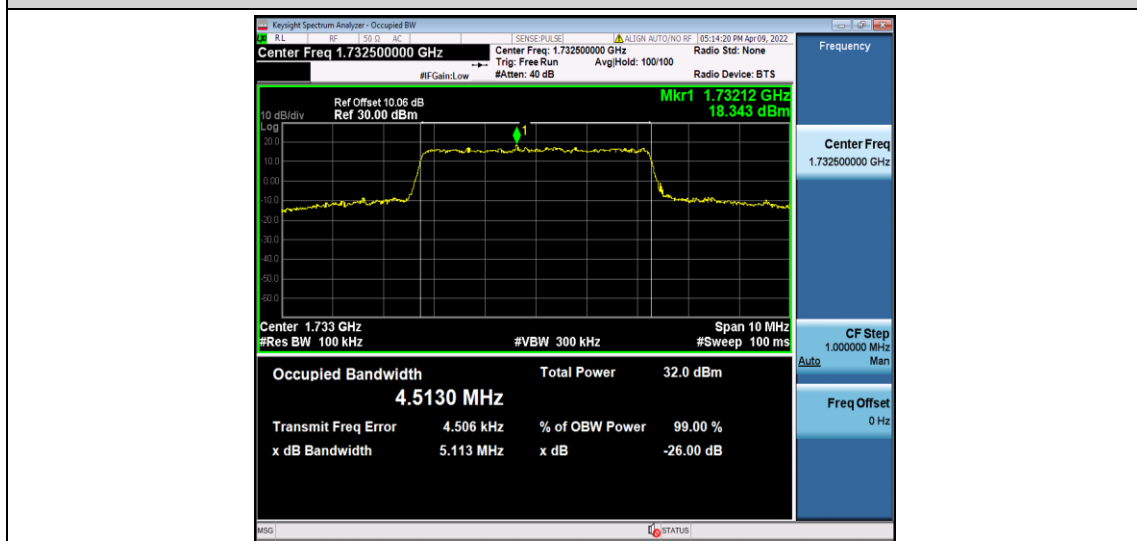




Band4-5MHz-QPSK-20375-25RB#0-4.5078



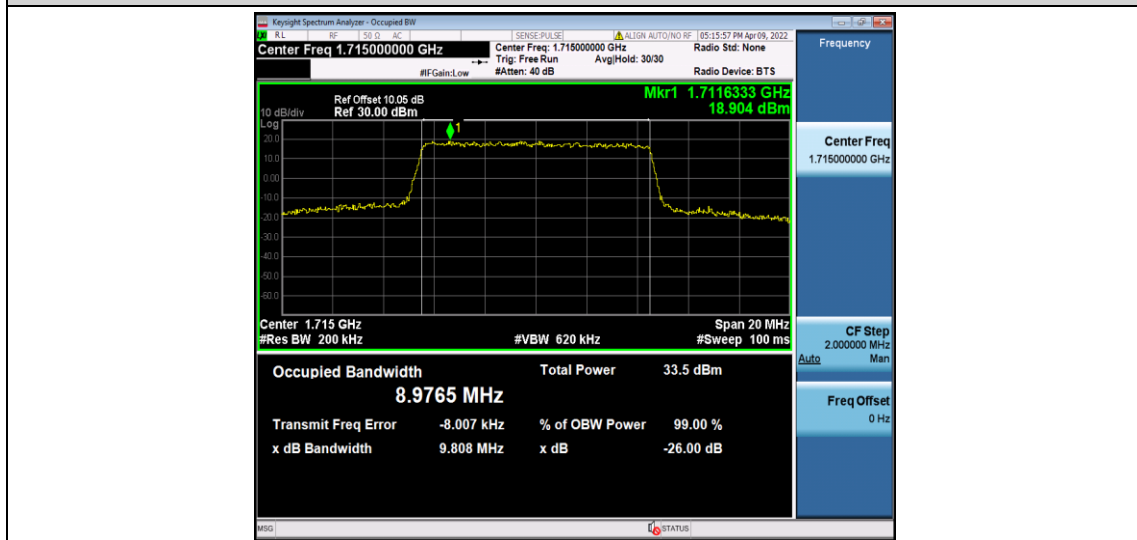
Band4-5MHz-16QAM-19975-25RB#0-4.4958



Band4-5MHz-16QAM-20175-25RB#0-4.5130



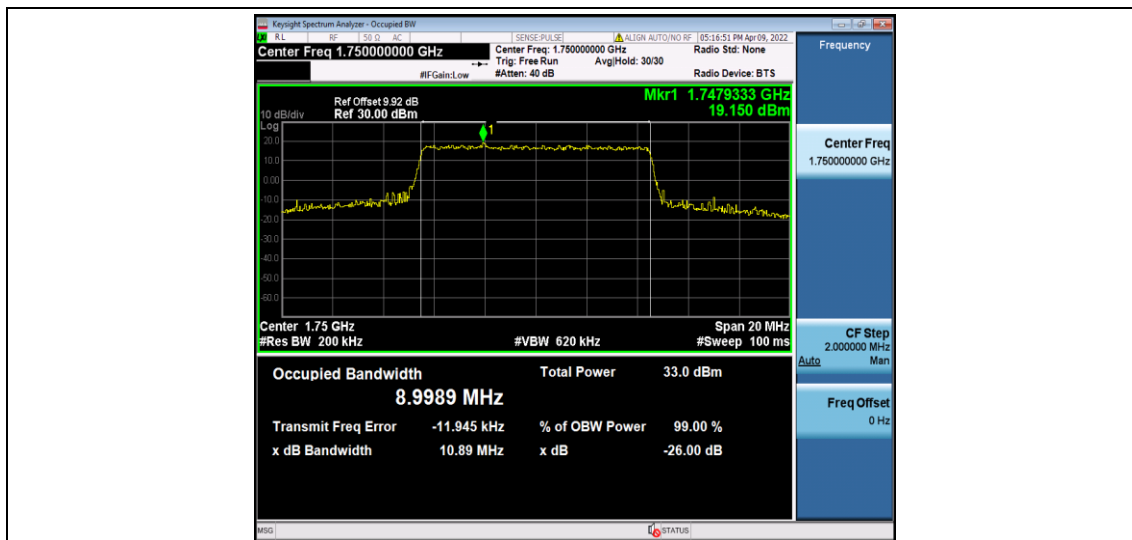
Band4-5MHz-16QAM-20375-25RB#0-4.4959



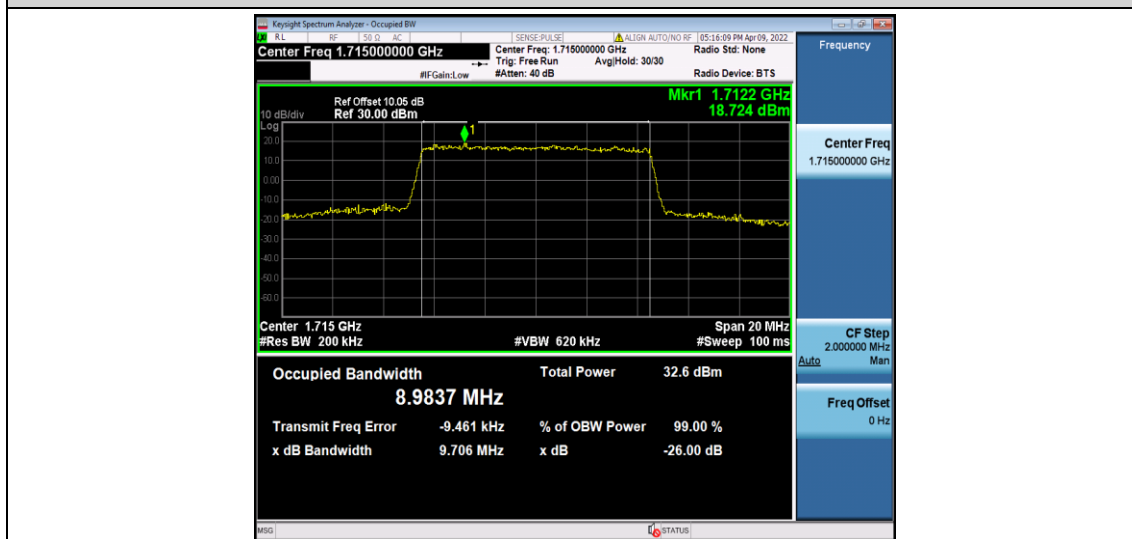
Band4-10MHz-QPSK-20000-50RB#0-8.9765



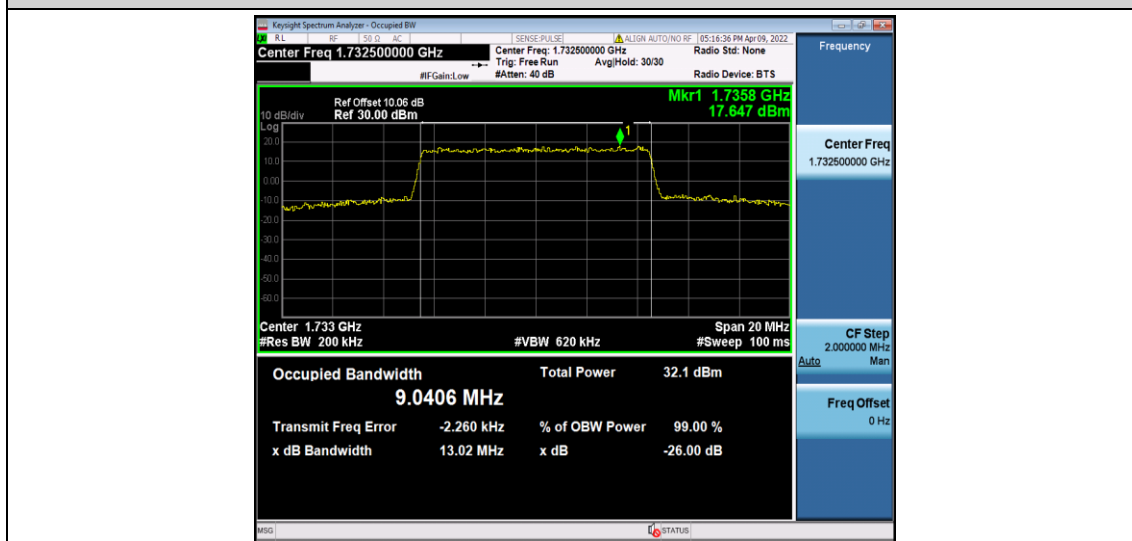
Band4-10MHz-QPSK-20175-50RB#0-9.0669



Band4-10MHz-QPSK-20350-50RB#0-8.9989



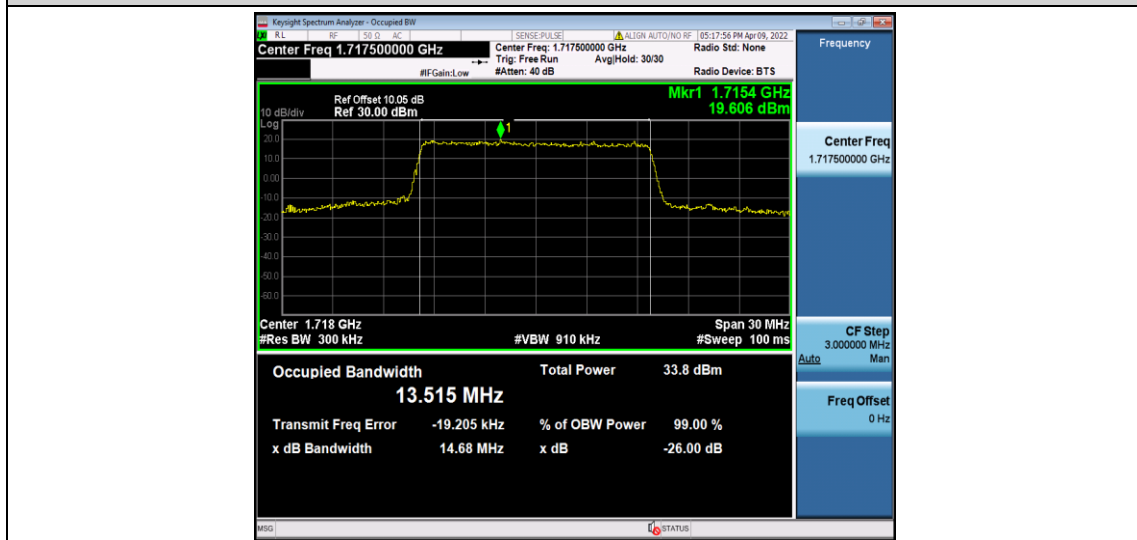
Band4-10MHz-16QAM-20000-50RB#0-8.9837



Band4-10MHz-16QAM-20175-50RB#0-9.0406



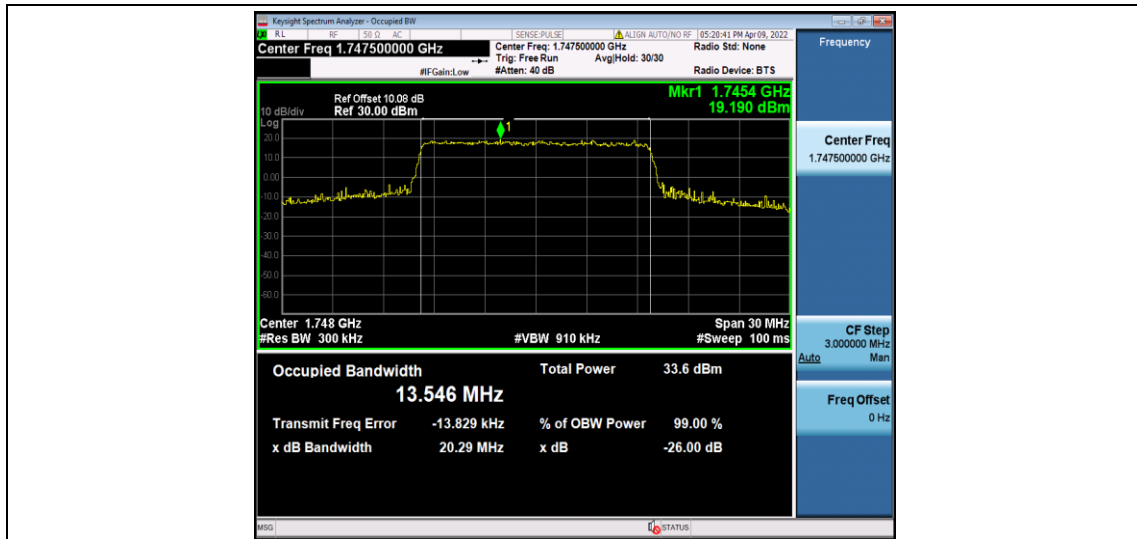
Band4-10MHz-16QAM-20350-50RB#0-9.0037



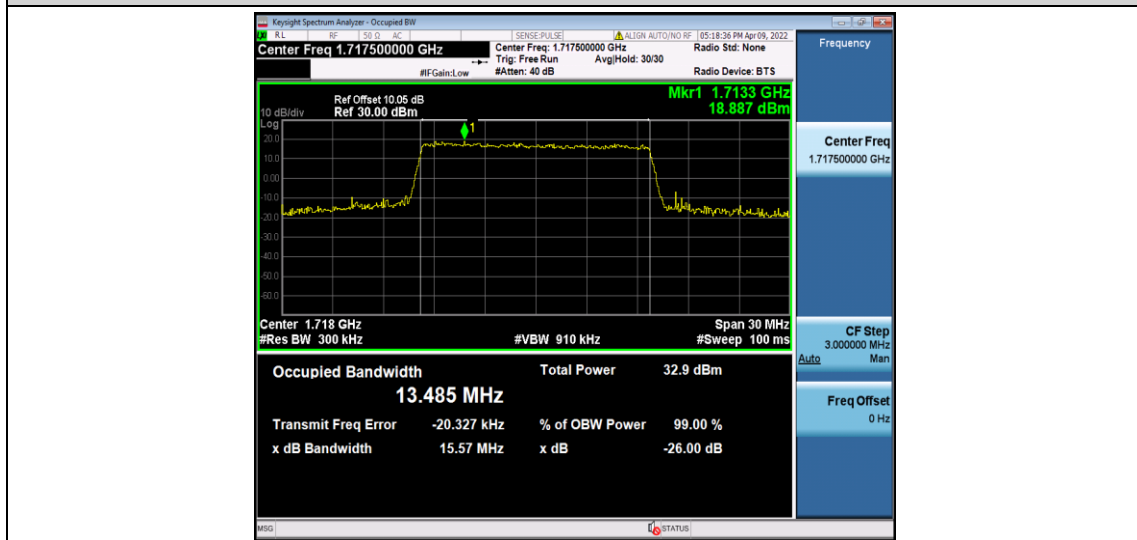
Band4-15MHz-QPSK-20025-75RB#0-13.515



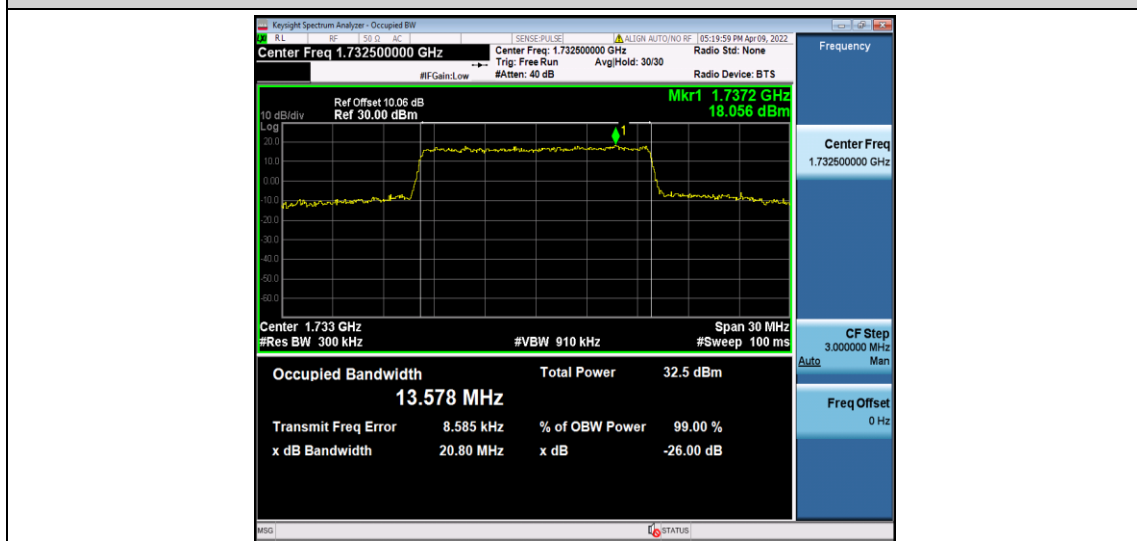
Band4-15MHz-QPSK-20175-75RB#0-13.645



Band4-15MHz-QPSK-20325-75RB#0-13.546



Band4-15MHz-16QAM-20025-75RB#0-13.485



Band4-15MHz-16QAM-20175-75RB#0-13.578