Appendix D: Test Data for E-UTRA Band 12

Product Name: Telematics Module

Test Model: 8400-13001-00

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Ling Zhu

D.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.02	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.98	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.90	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.98	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.96	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.92	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.05	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.84	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.90	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.69	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.64	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.75	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.76	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.06	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.57	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.51	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.46	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.61	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.41	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.52	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.73	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.79	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.81	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.76	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.58	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.04	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.08	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.18	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.76	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.79	PASS

Band12	1.4MHz	16QAM	23095	1RB#5	21.81	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.60	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.60	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.57	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.19	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.05	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.99	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.10	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.72	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.72	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.49	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.93	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.99	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.88	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.86	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.94	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.95	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.00	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.95	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.87	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.67	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.91	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.75	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.76	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.84	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.05	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.65	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.51	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.46	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.63	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.60	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.63	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.60	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.88	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.95	PASS

Band12	3MHz	16QAM	23025	1RB#14	21.82	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.24	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.24	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.31	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.13	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.82	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.80	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.76	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.21	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.21	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.24	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.87	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.15	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.11	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.58	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.10	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.10	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.06	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.92	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.87	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.80	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.79	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.03	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.03	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.98	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.62	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.51	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.65	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.62	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.06	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.86	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.90	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.97	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.97	PASS

Band12	5MHz	QPSK	23155	1RB#24	22.82	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.81	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.81	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.75	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.78	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.38	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.41	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.27	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.11	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.17	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.07	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.20	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.26	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.20	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.74	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.95	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.95	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.91	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.90	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.67	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.66	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.71	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.78	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.78	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.84	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.02	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.76	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.71	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.54	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.94	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.94	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.01	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.90	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.80	PASS

Band12	10MHz	QPSK	23095	1RB#49	22.71	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.86	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.97	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.74	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.91	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.53	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.44	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.40	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.44	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.80	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.70	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.22	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.01	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.87	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.09	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.09	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.96	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.03	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.95	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.86	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.79	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.12	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.12	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.10	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.11	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.60	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.45	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.45	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.98	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.92	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.95	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.92	PASS

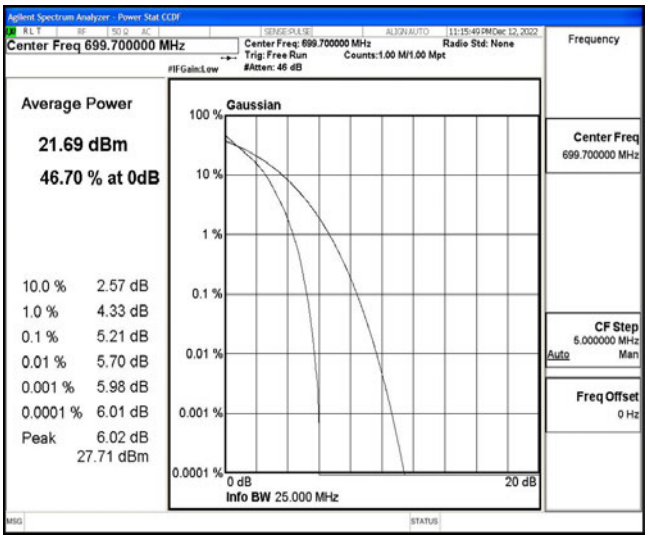
D.2 Peak-to-Average Ratio(CCDF)

Test Result

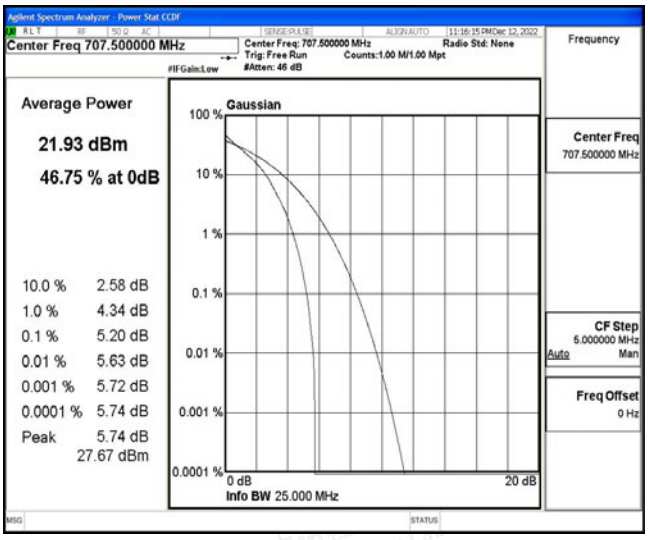
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	5.21	13	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	5.20	13	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	4.56	13	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	6.02	13	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	5.89	13	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	5.22	13	PASS
Band12	3MHz	QPSK	23025	15RB#0	5.20	13	PASS
Band12	3MHz	QPSK	23095	15RB#0	5.18	13	PASS
Band12	3MHz	QPSK	23165	15RB#0	4.76	13	PASS
Band12	3MHz	16QAM	23025	15RB#0	5.98	13	PASS
Band12	3MHz	16QAM	23095	15RB#0	5.88	13	PASS
Band12	3MHz	16QAM	23165	15RB#0	5.52	13	PASS
Band12	5MHz	QPSK	23035	25RB#0	5.37	13	PASS
Band12	5MHz	QPSK	23095	25RB#0	5.25	13	PASS
Band12	5MHz	QPSK	23155	25RB#0	5.05	13	PASS
Band12	5MHz	16QAM	23035	25RB#0	6.02	13	PASS
Band12	5MHz	16QAM	23095	25RB#0	5.98	13	PASS
Band12	5MHz	16QAM	23155	25RB#0	5.79	13	PASS
Band12	10MHz	QPSK	23060	50RB#0	5.37	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.31	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.99	13	PASS

Test Graphs

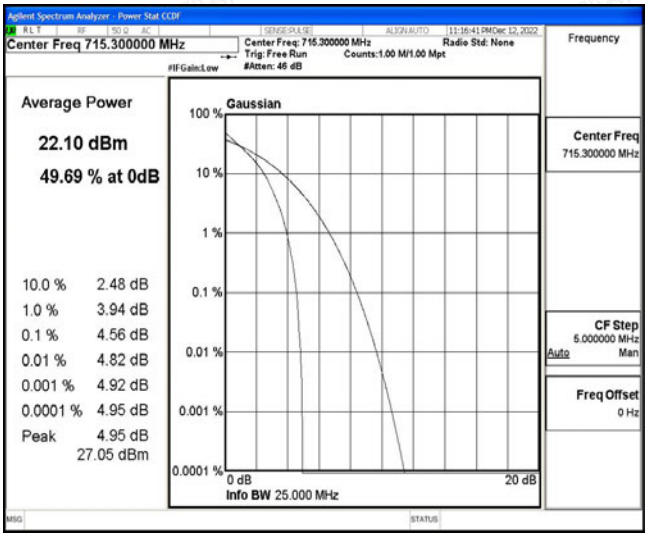
Band12-1.4MHz-QPSK-23017-6RB#0



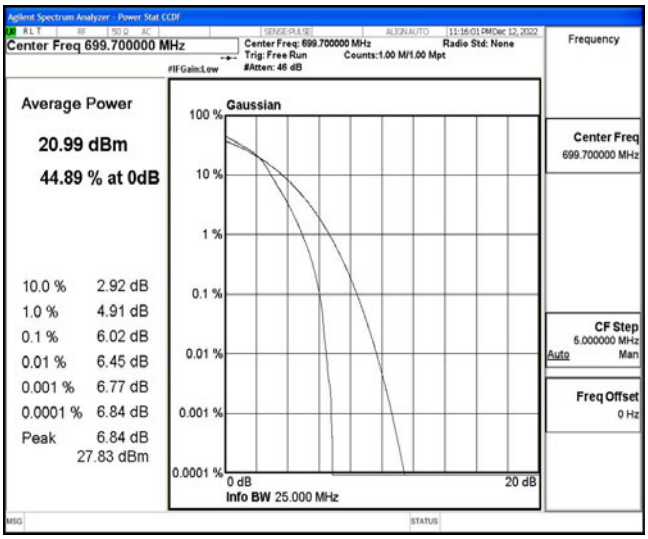
Band12-1.4MHz-QPSK-23095-6RB#0



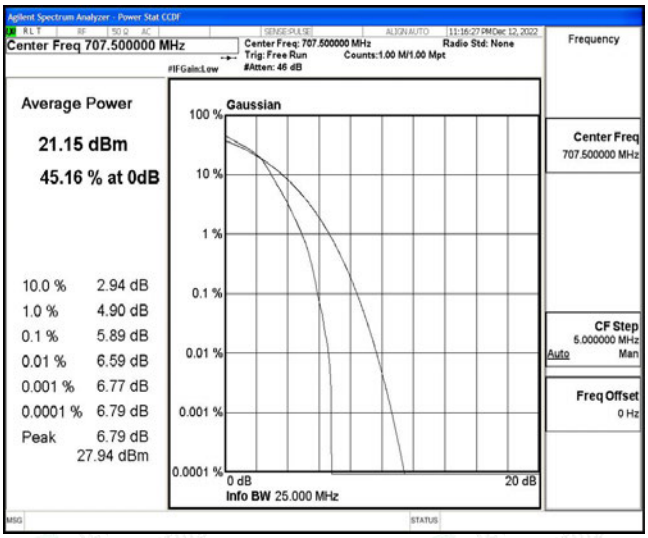
Band12-1.4MHz-QPSK-23173-6RB#0



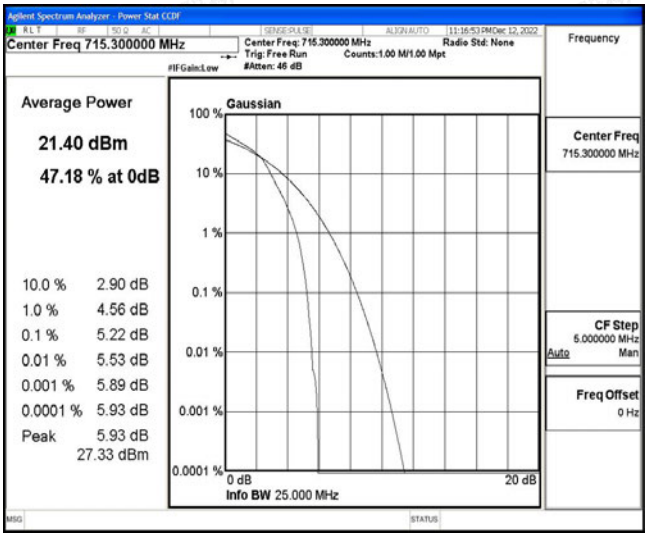
Band12-1.4MHz-16QAM-23017-6RB#0



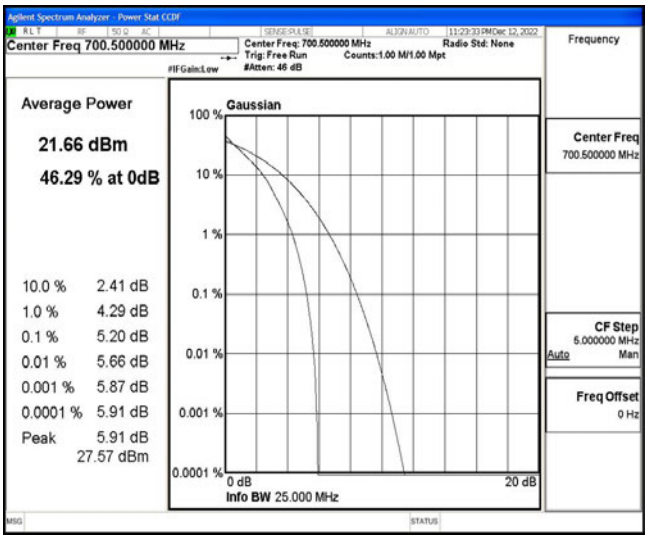
Band12-1.4MHz-16QAM-23095-6RB#0



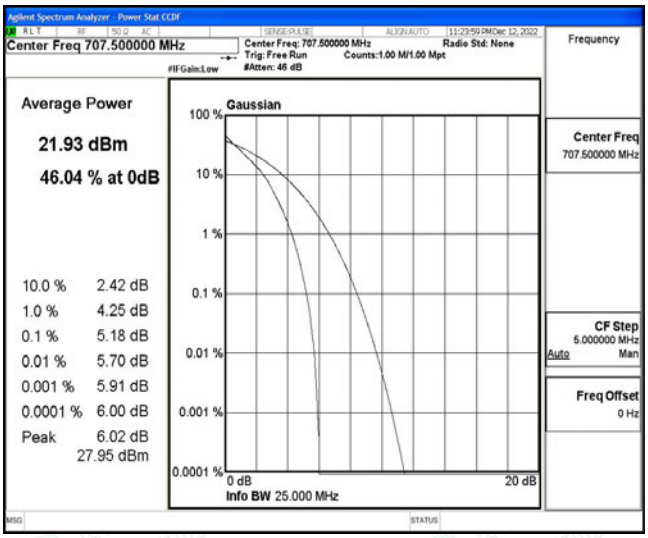
Band12-1.4MHz-16QAM-23173-6RB#0



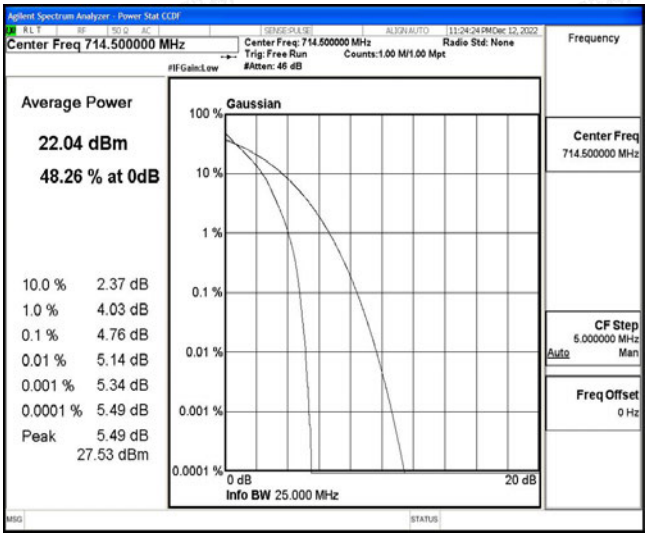
Band12-3MHz-QPSK-23025-15RB#0



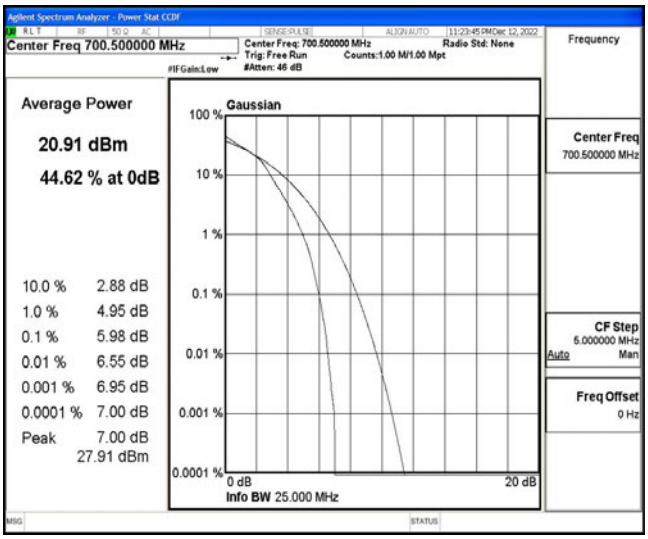
Band12-3MHz-QPSK-23095-15RB#0



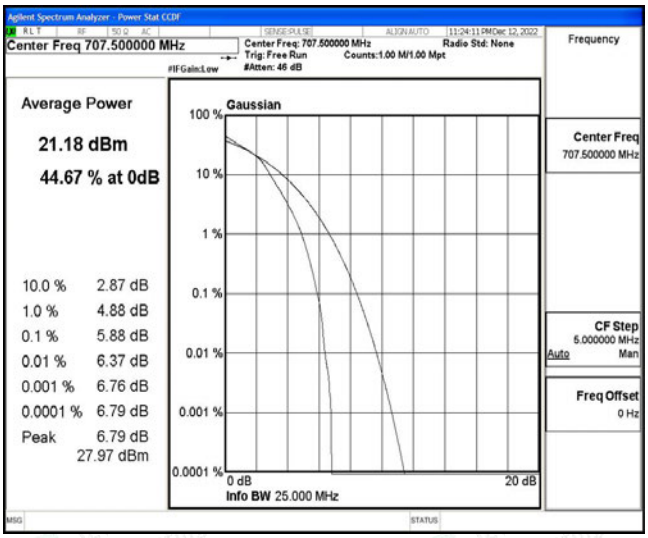
Band12-3MHz-QPSK-23165-15RB#0



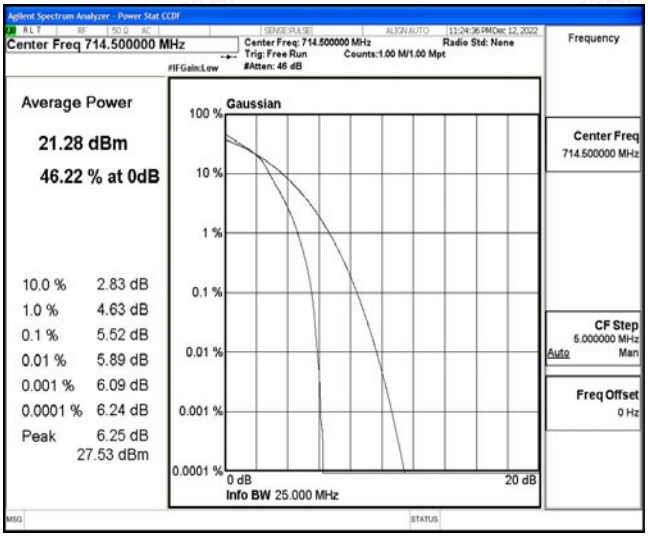
Band12-3MHz-16QAM-23025-15RB#0



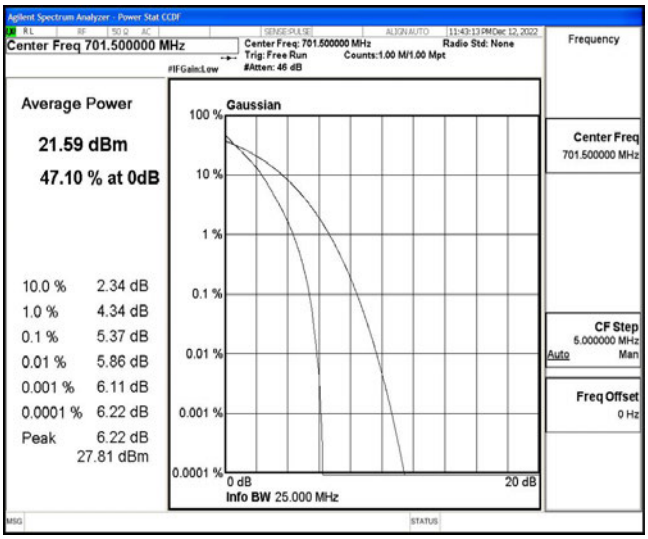
Band12-3MHz-16QAM-23095-15RB#0



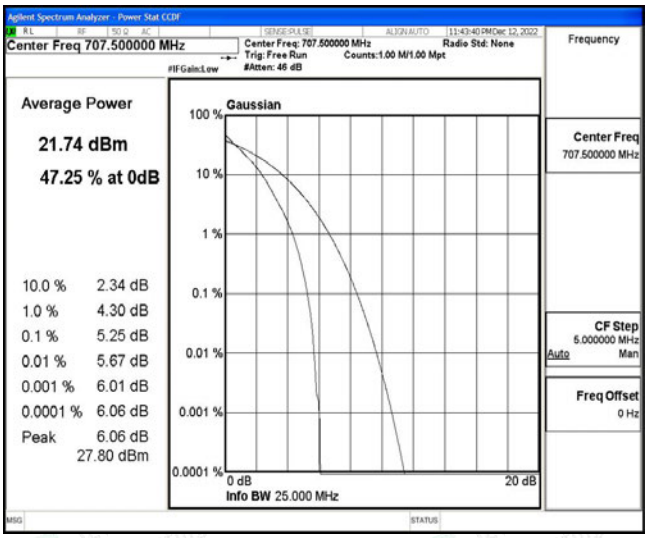
Band12-3MHz-16QAM-23165-15RB#0



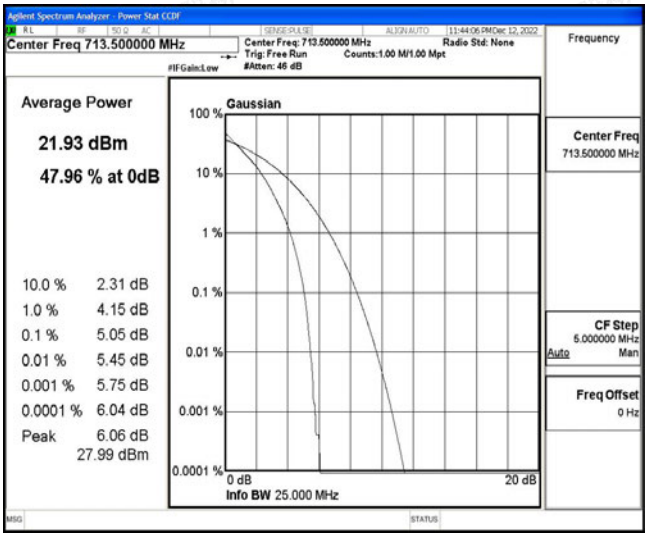
Band12-5MHz-QPSK-23035-25RB#0



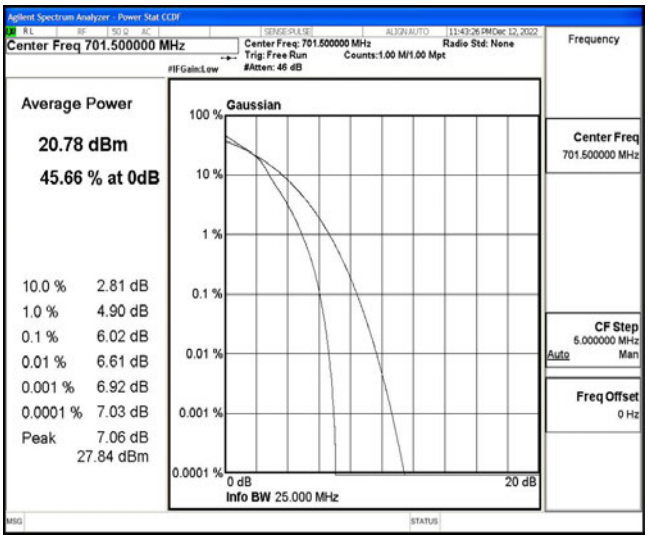
Band12-5MHz-QPSK-23095-25RB#0



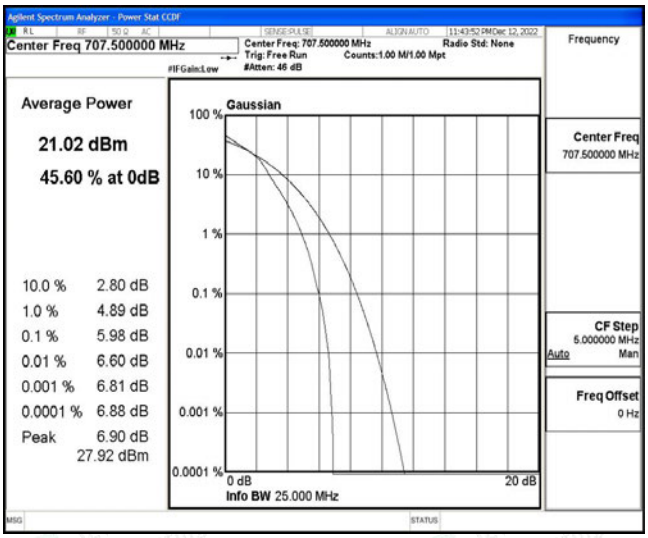
Band12-5MHz-QPSK-23155-25RB#0



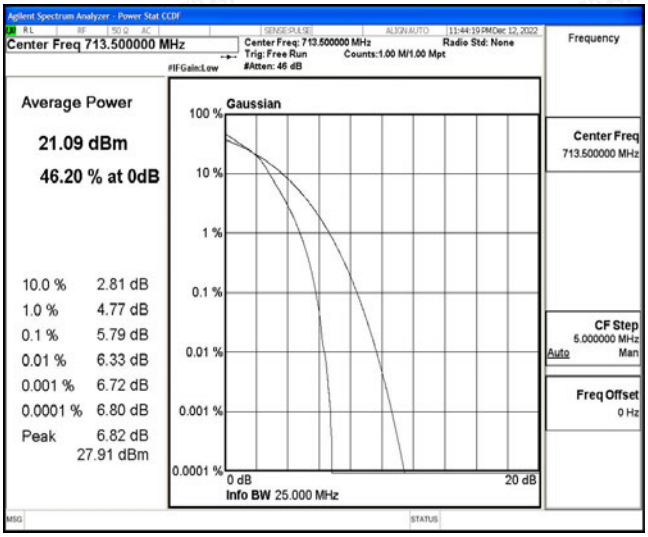
Band12-5MHz-16QAM-23035-25RB#0



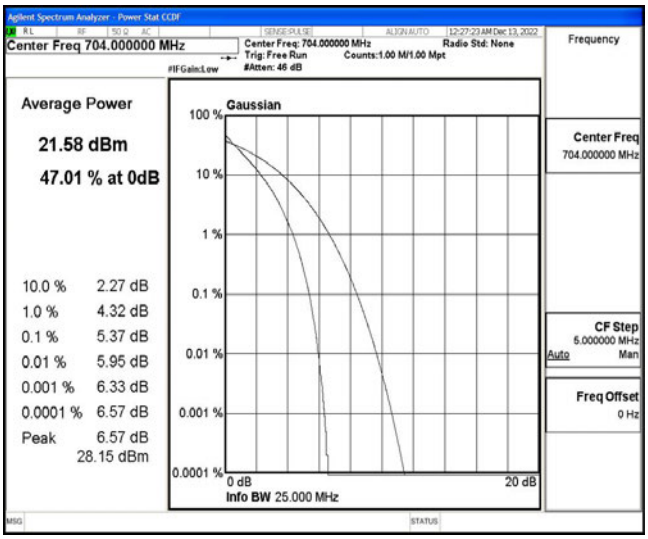
Band12-5MHz-16QAM-23095-25RB#0



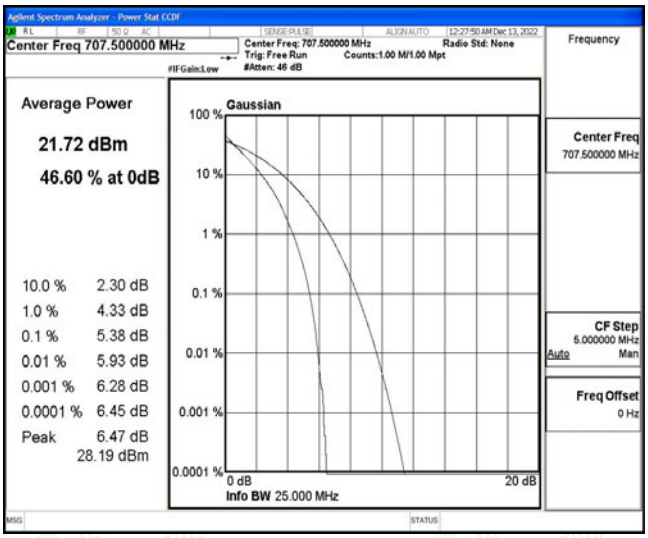
Band12-5MHz-16QAM-23155-25RB#0



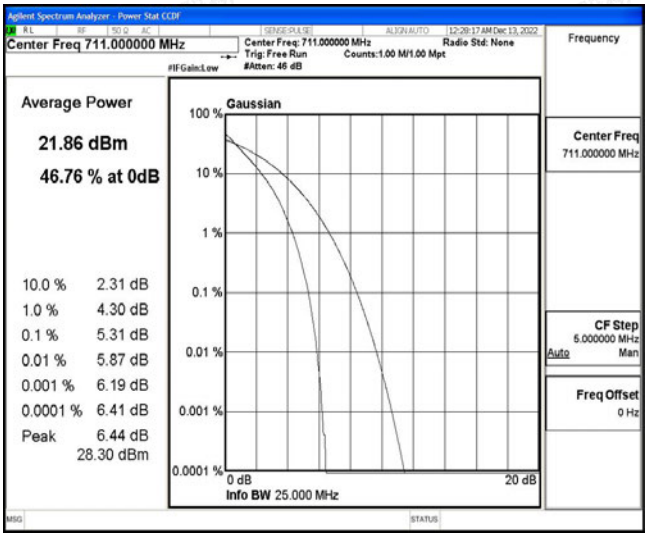
Band12-10MHz-QPSK-23060-50RB#0



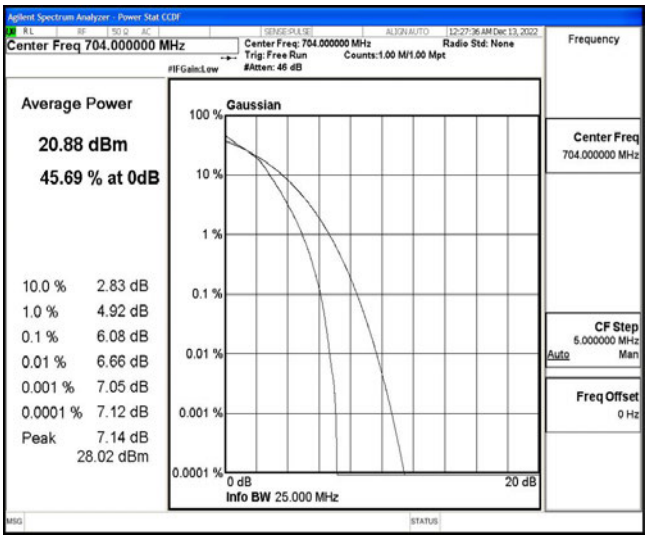
Band12-10MHz-QPSK-23095-50RB#0



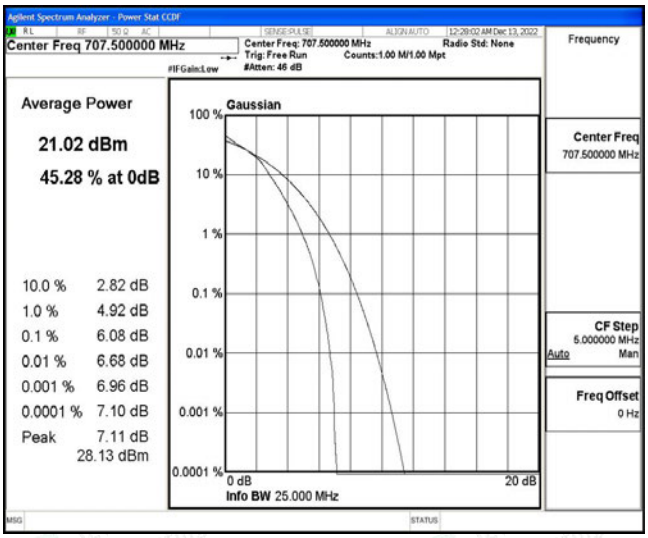
Band12-10MHz-QPSK-23130-50RB#0



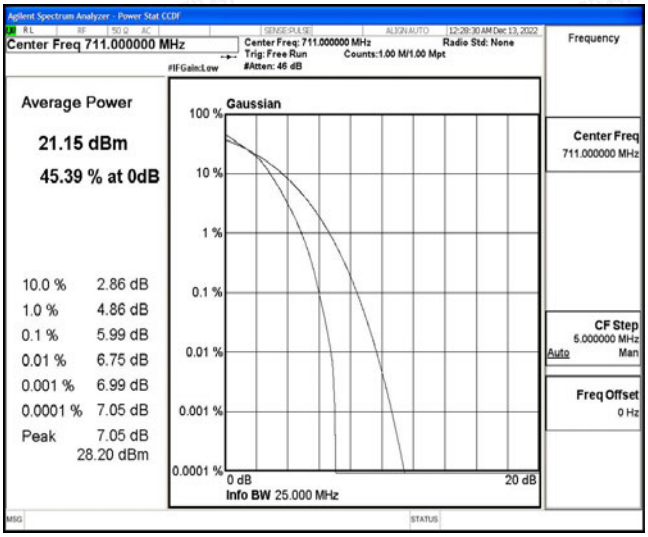
Band12-10MHz-16QAM-23060-50RB#0



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



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


Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
#Atten: 46 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
Frequency
Average Power
21.15 dBm
45.39 % at 0dB
10.0 % 2.86 dB
1.0 % 4.86 dB
0.1 % 5.99 dB
0.01 % 6.75 dB
0.001 % 6.99 dB
0.0001 % 7.05 dB
Peak 7.05 dB
28.20 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
711.000000 MHz
CF Step
5.000000 MHz
Auto Man
Freq Offset
0 Hz

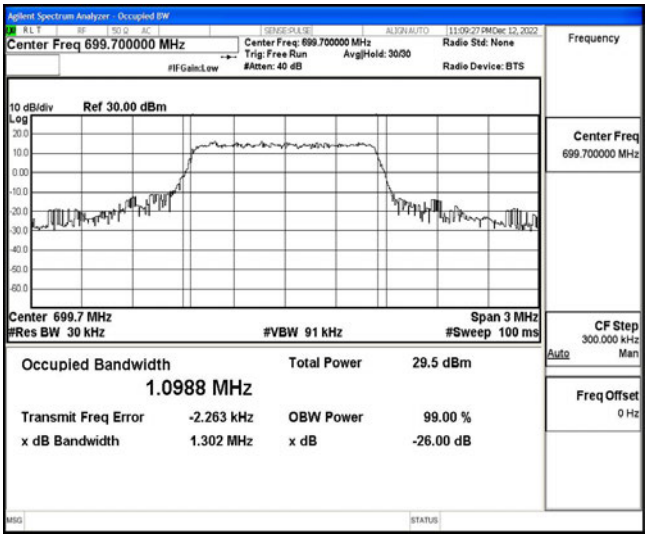
D.3 26dB Bandwidth and Occupied Bandwidth

Test Result

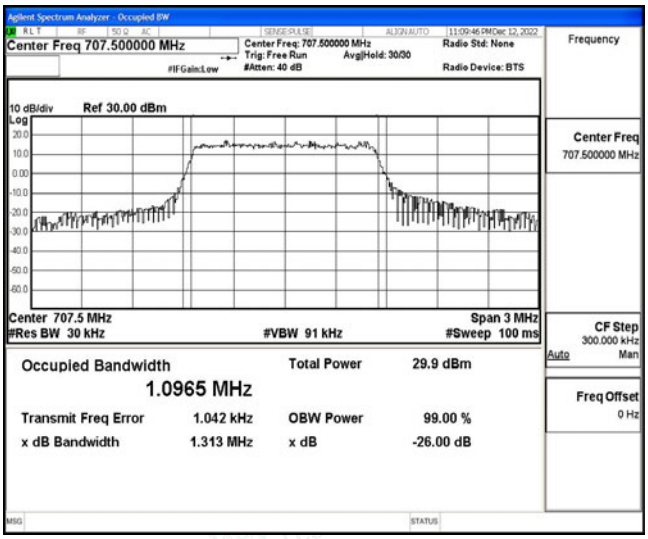
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0988	1.302	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0965	1.313	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0994	1.308	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.1042	1.283	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.1055	1.353	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0950	1.359	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7101	3.087	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7138	3.135	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.7132	3.093	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.7024	3.104	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7161	3.368	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.7088	3.193	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5422	5.325	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5203	5.422	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.5136	5.139	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.5236	5.254	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5525	5.383	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.5379	5.470	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9860	9.971	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9970	10.04	PASS
Band12	10MHz	QPSK	23130	50RB#0	9.0104	10.24	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9975	10.11	PASS
Band12	10MHz	16QAM	23095	50RB#0	9.0057	9.933	PASS
Band12	10MHz	16QAM	23130	50RB#0	9.0177	10.06	PASS

Test Graphs

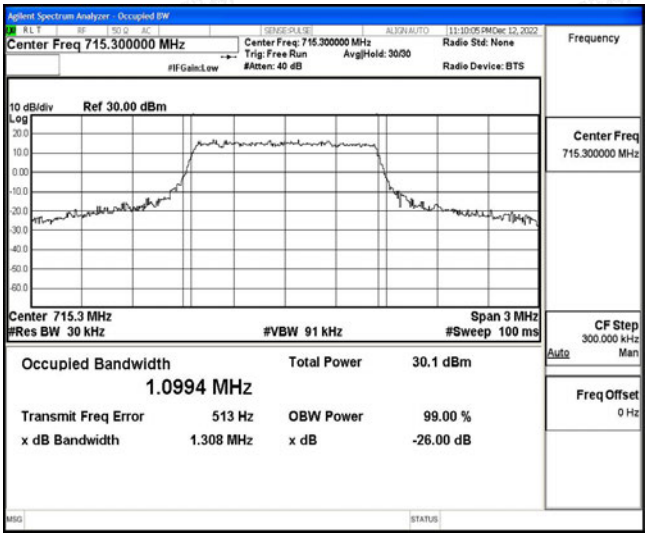
Band12-1.4MHz-QPSK-23017-6RB#0



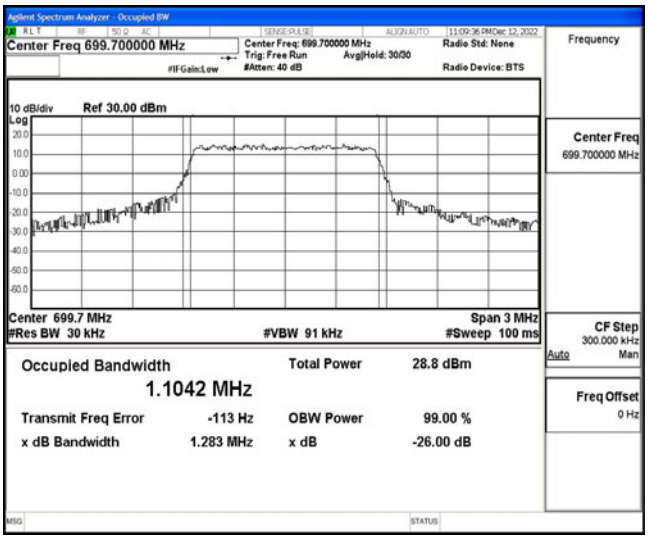
Band12-1.4MHz-QPSK-23095-6RB#0



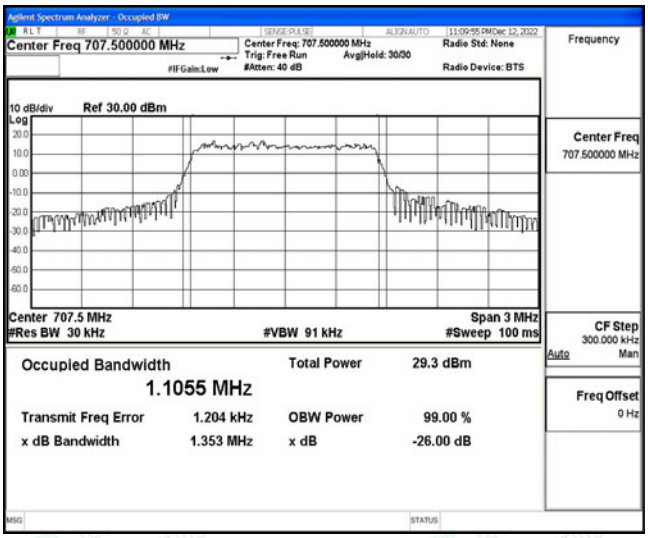
Band12-1.4MHz-QPSK-23173-6RB#0



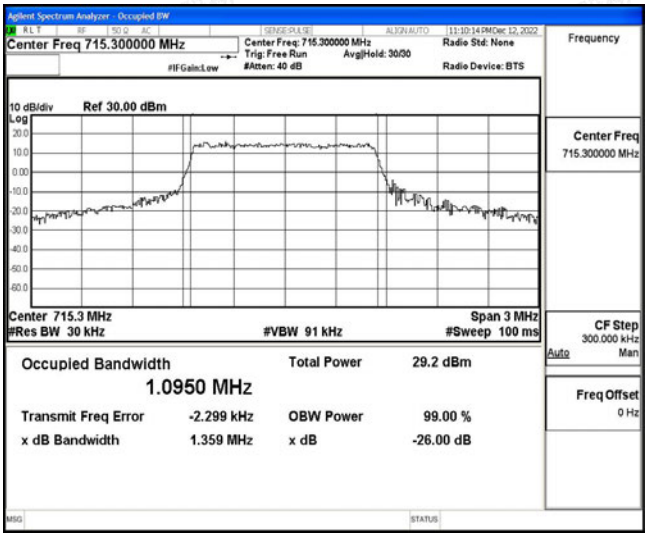
Band12-1.4MHz-16QAM-23017-6RB#0



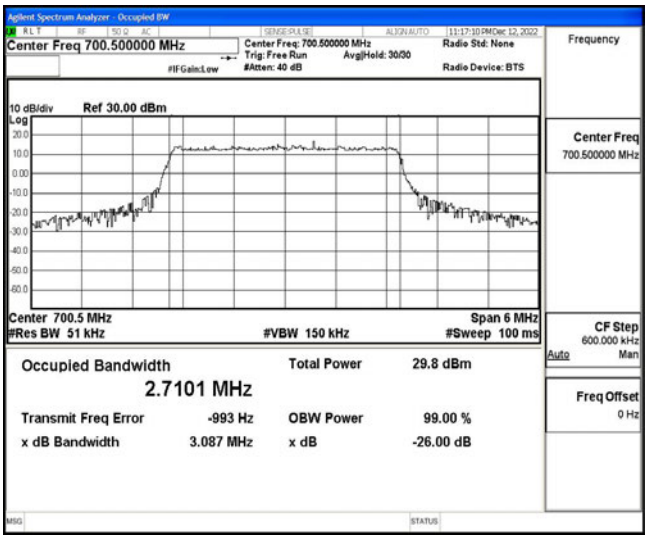
Band12-1.4MHz-16QAM-23095-6RB#0



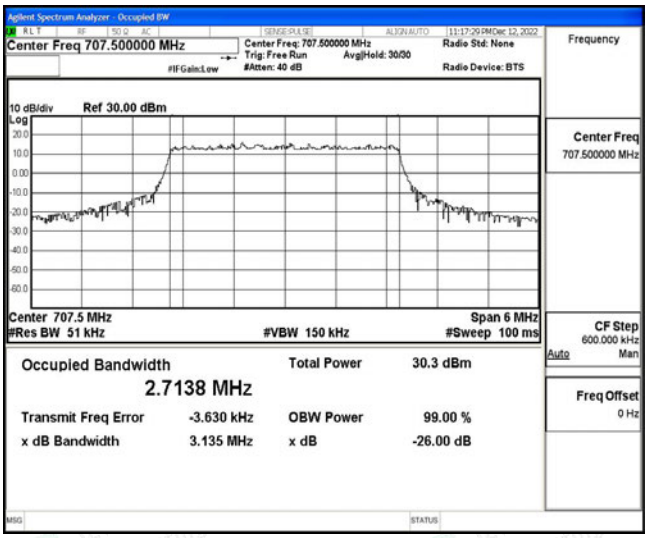
Band12-1.4MHz-16QAM-23173-6RB#0



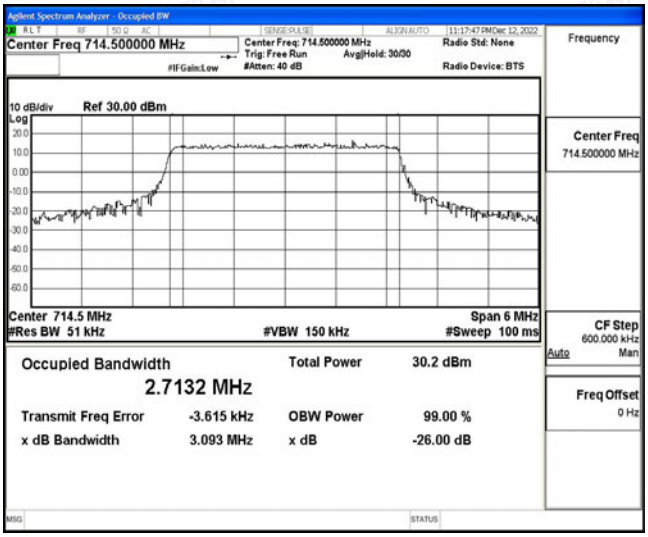
Band12-3MHz-QPSK-23025-15RB#0



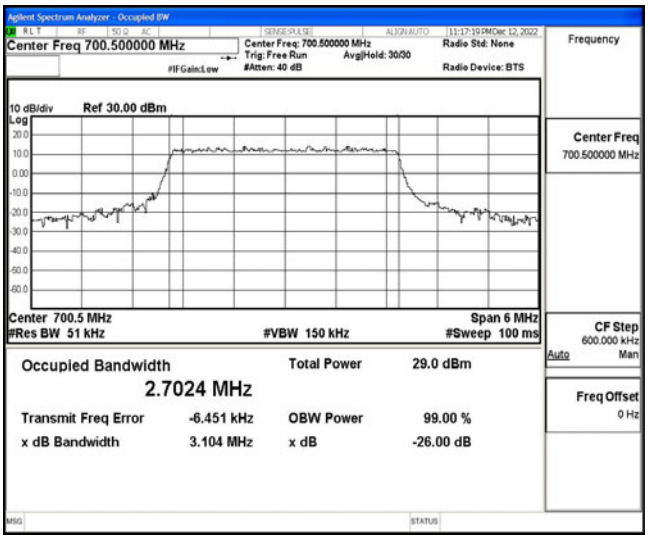
Band12-3MHz-QPSK-23095-15RB#0



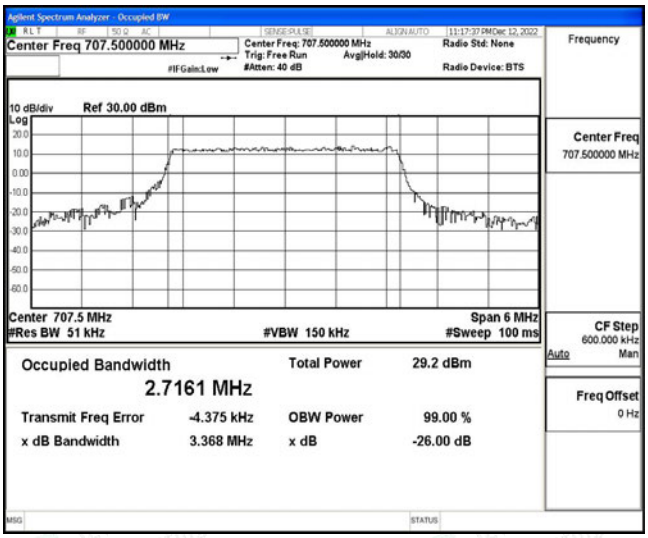
Band12-3MHz-QPSK-23165-15RB#0



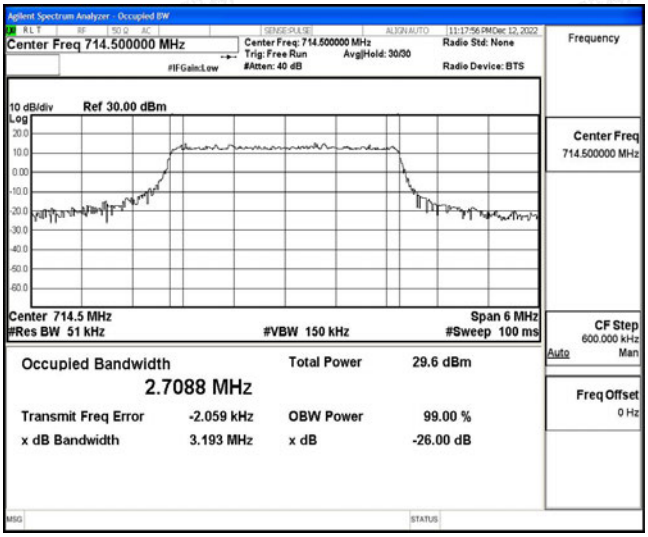
Band12-3MHz-16QAM-23025-15RB#0



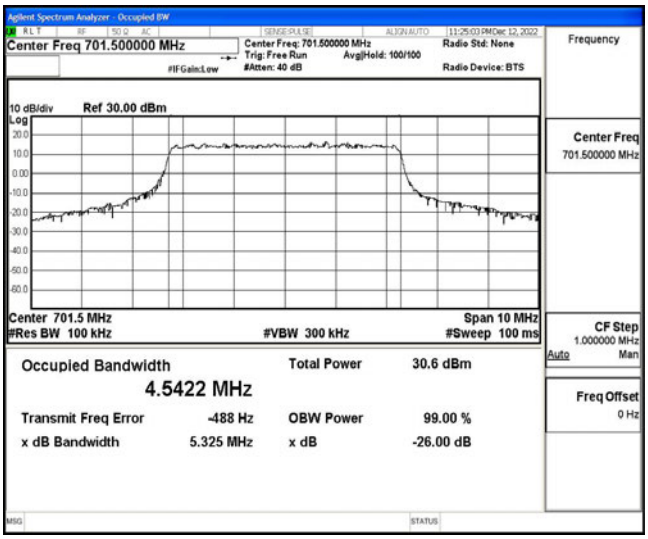
Band12-3MHz-16QAM-23095-15RB#0



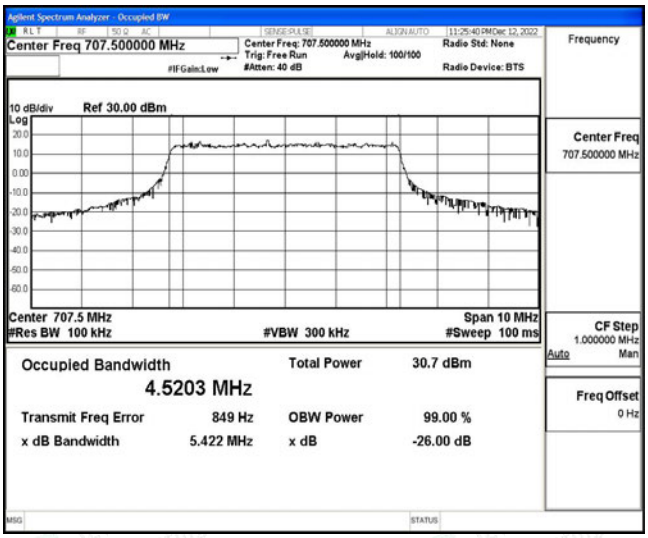
Band12-3MHz-16QAM-23165-15RB#0



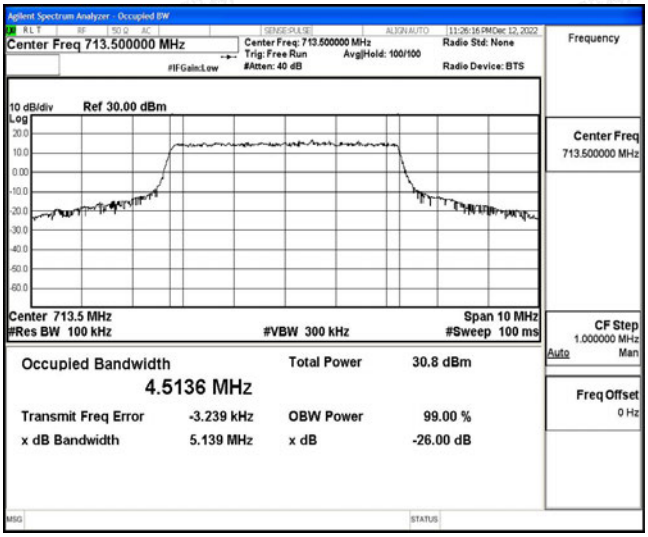
Band12-5MHz-QPSK-23035-25RB#0



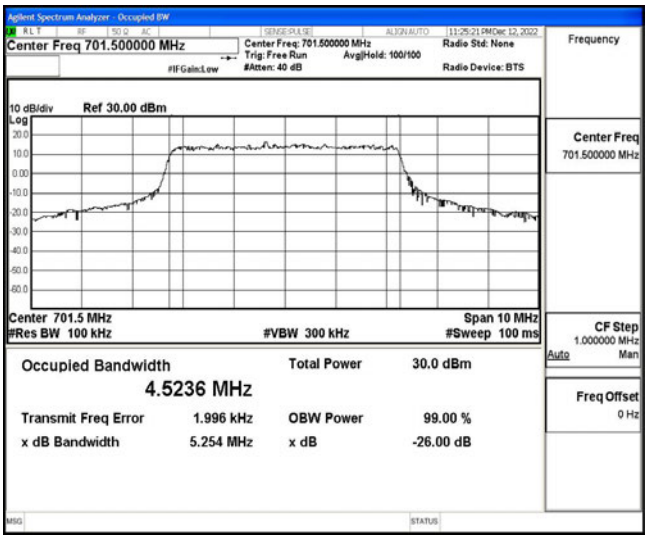
Band12-5MHz-QPSK-23095-25RB#0



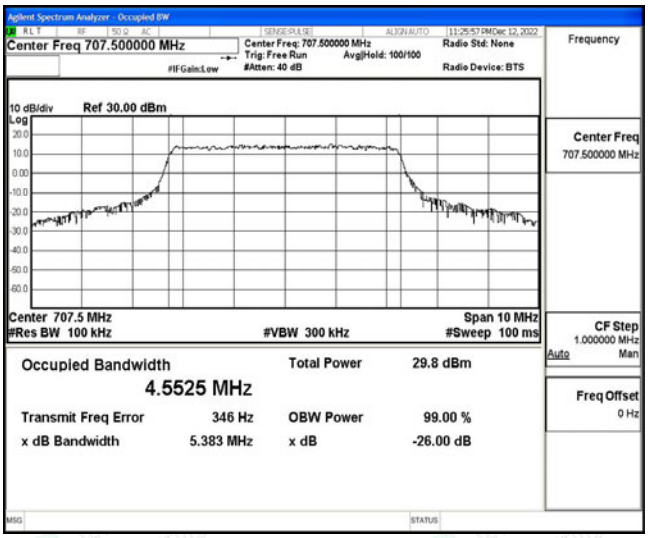
Band12-5MHz-QPSK-23155-25RB#0



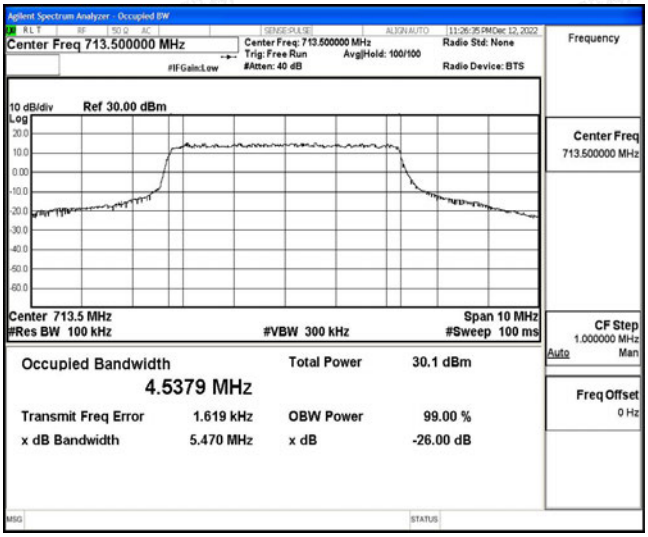
Band12-5MHz-16QAM-23035-25RB#0



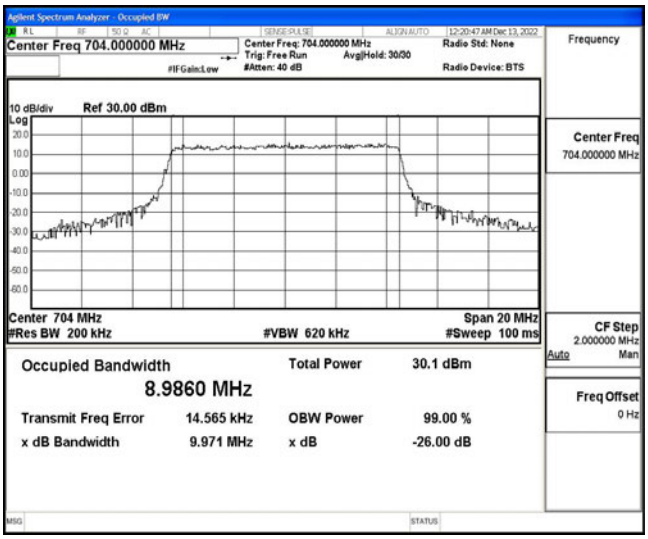
Band12-5MHz-16QAM-23095-25RB#0



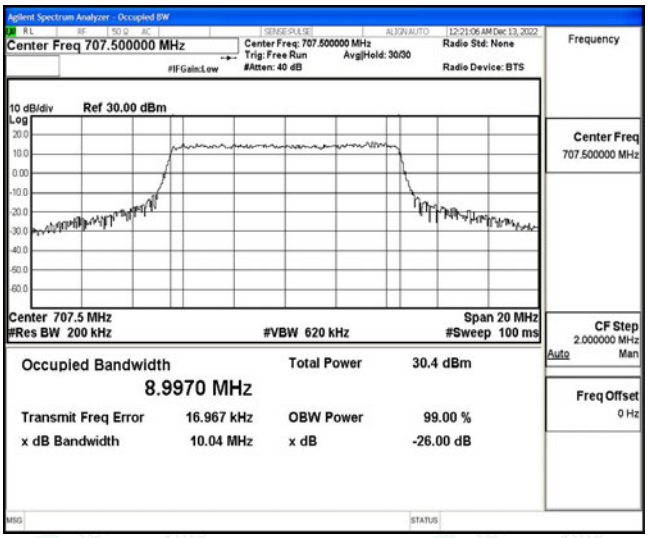
Band12-5MHz-16QAM-23155-25RB#0



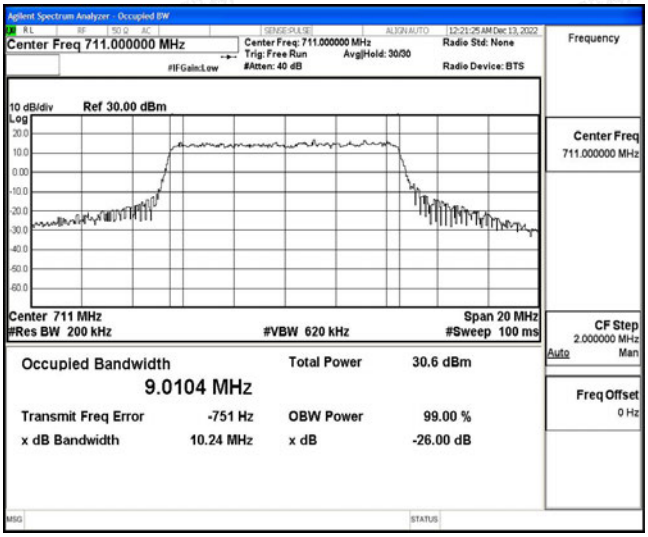
Band12-10MHz-QPSK-23060-50RB#0



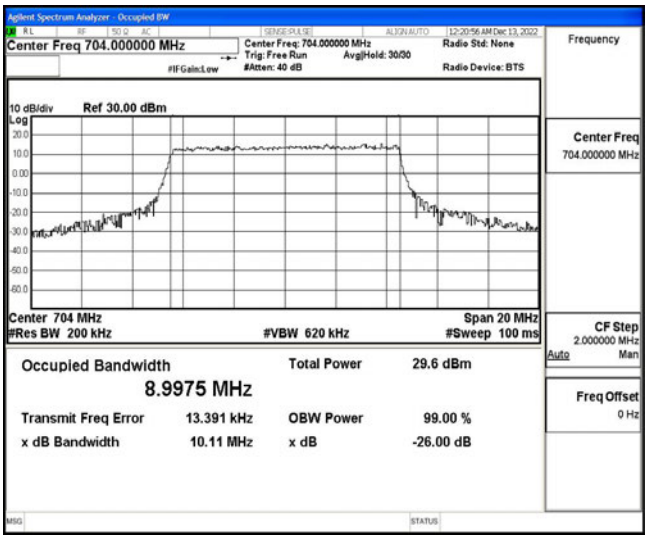
Band12-10MHz-QPSK-23095-50RB#0



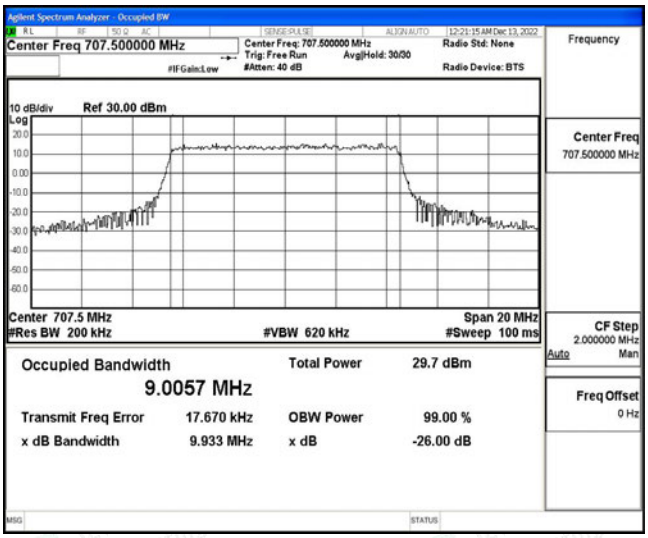
Band12-10MHz-QPSK-23130-50RB#0



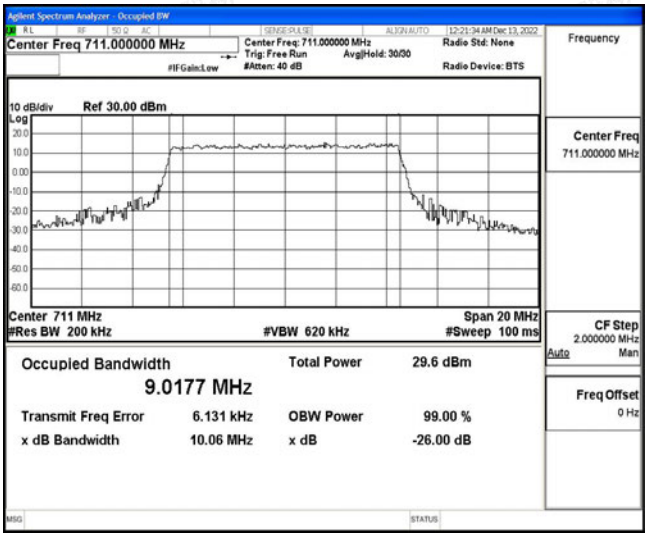
Band12-10MHz-16QAM-23060-50RB#0



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



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


Agilent Spectrum Analyzer - Occupied BW
Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
Avg|Hold: 30/30
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
12:21:34 AM Dec 13, 2022
Frequency
10 dB/div
Ref 30.00 dBm
Log
Center Freq
711.000000 MHz
Center 711 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
#Sweep 100 ms
CF Step
2.000000 MHz
Auto
Man
Occupied Bandwidth
9.0177 MHz
Total Power
29.6 dBm
Transmit Freq Error
6.131 kHz
OBW Power
99.00 %
x dB Bandwidth
10.06 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

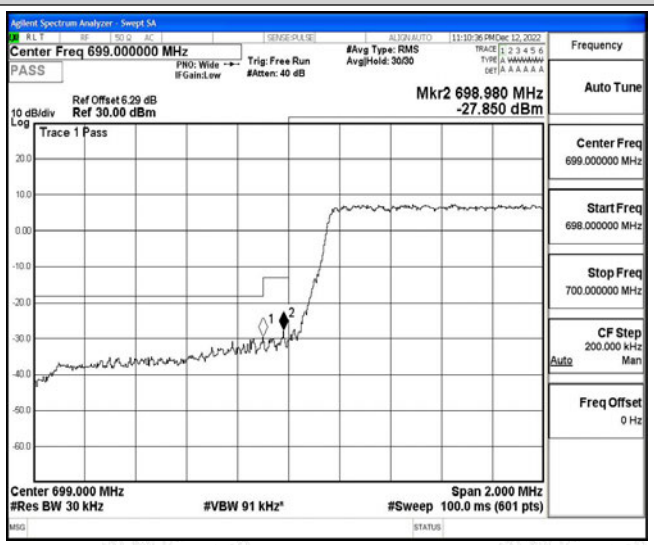
D.4 Band Edge

Test Result

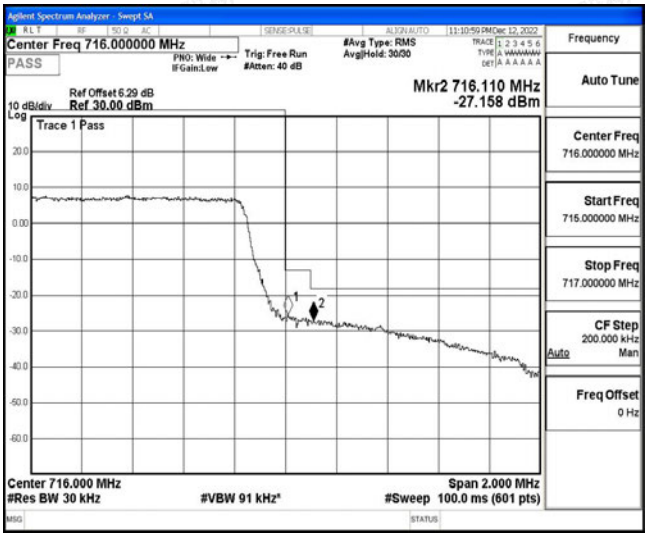
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	-29.50,-27.85	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-25.50,-27.16	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-31.27,-29.07	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-26.61,-27.35	PASS
Band12	3MHz	QPSK	23025	15RB#0	-31.63,-22.13	PASS
Band12	3MHz	QPSK	23165	15RB#0	-22.14,-28.49	PASS
Band12	3MHz	16QAM	23025	15RB#0	-30.99,-23.19	PASS
Band12	3MHz	16QAM	23165	15RB#0	-22.14,-30.74	PASS
Band12	5MHz	QPSK	23035	25RB#0	-26.13	PASS
Band12	5MHz	QPSK	23155	25RB#0	-25.93	PASS
Band12	5MHz	16QAM	23035	25RB#0	-27.26	PASS
Band12	5MHz	16QAM	23155	25RB#0	-25.69	PASS
Band12	10MHz	QPSK	23060	50RB#0	-33.10,-30.65	PASS
Band12	10MHz	QPSK	23130	50RB#0	-29.39,-32.17	PASS
Band12	10MHz	16QAM	23060	50RB#0	-34.20,-31.40	PASS
Band12	10MHz	16QAM	23130	50RB#0	-29.84,-32.47	PASS

Test Graphs

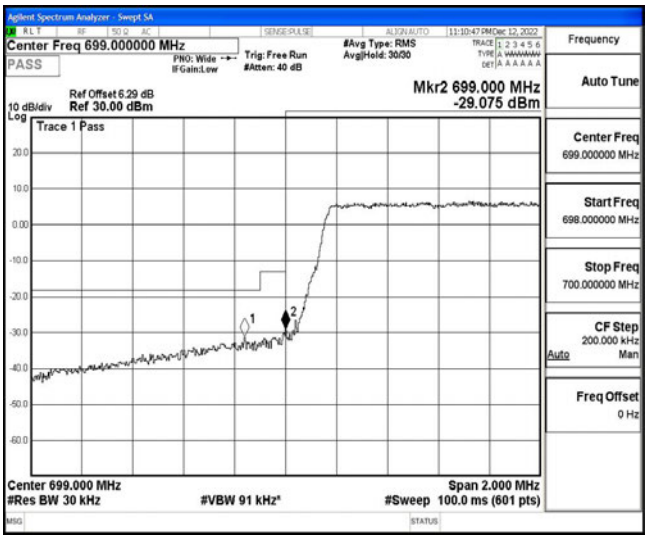
Band12-1.4MHz-QPSK-23017-6RB#0



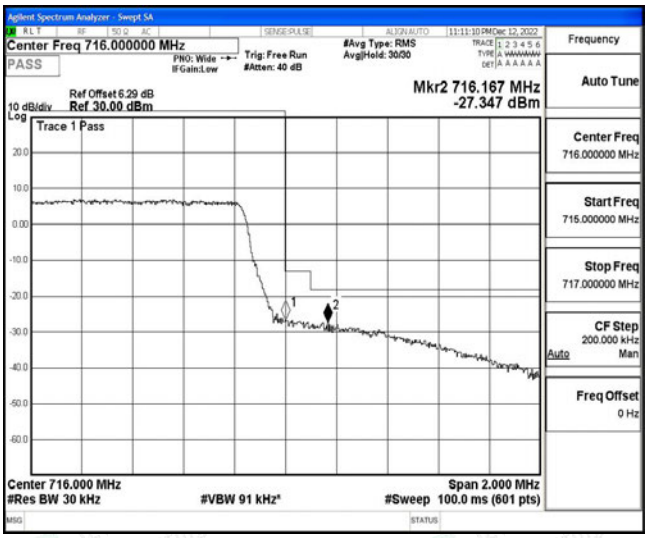
Band12-1.4MHz-QPSK-23173-6RB#0



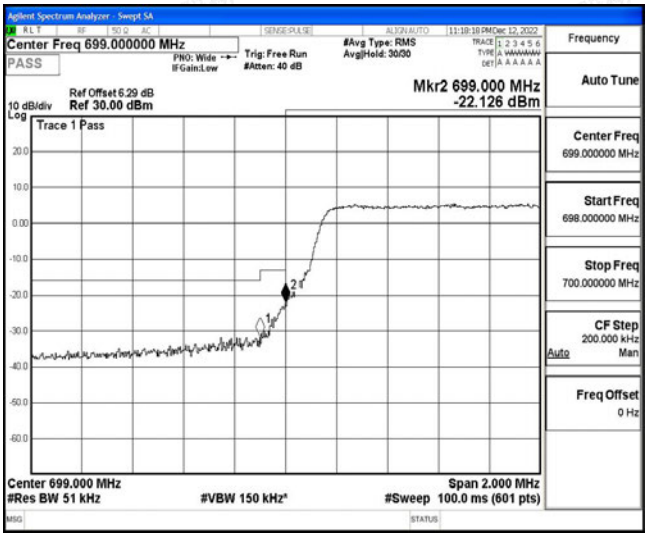
Band12-1.4MHz-16QAM-23017-6RB#0



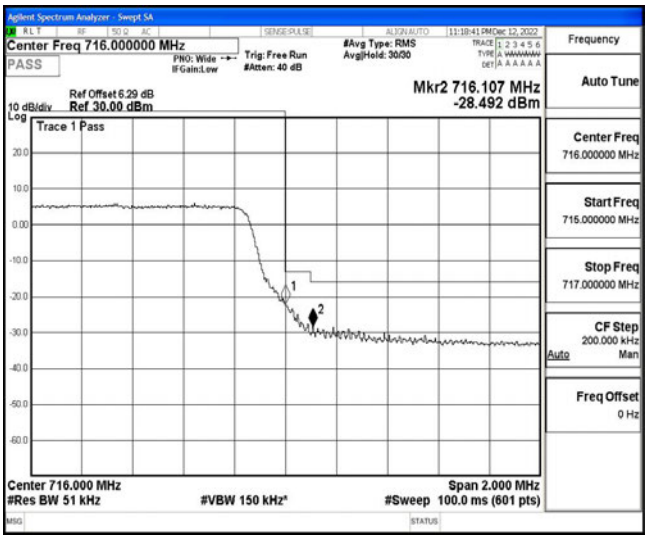
Band12-1.4MHz-16QAM-23173-6RB#0



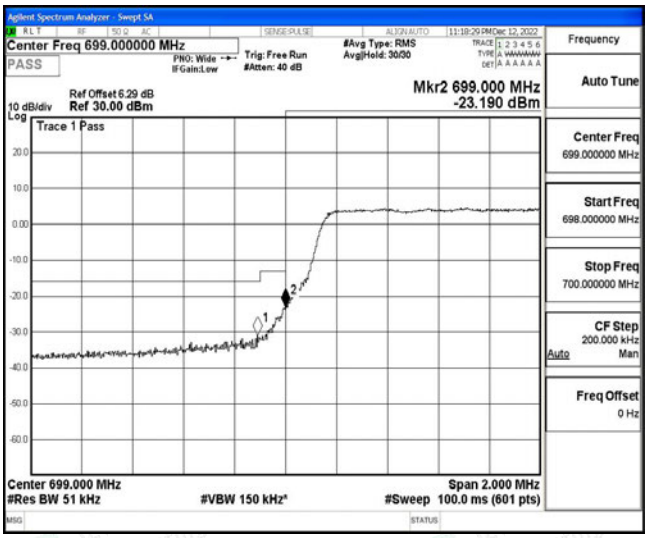
Band12-3MHz-QPSK-23025-15RB#0



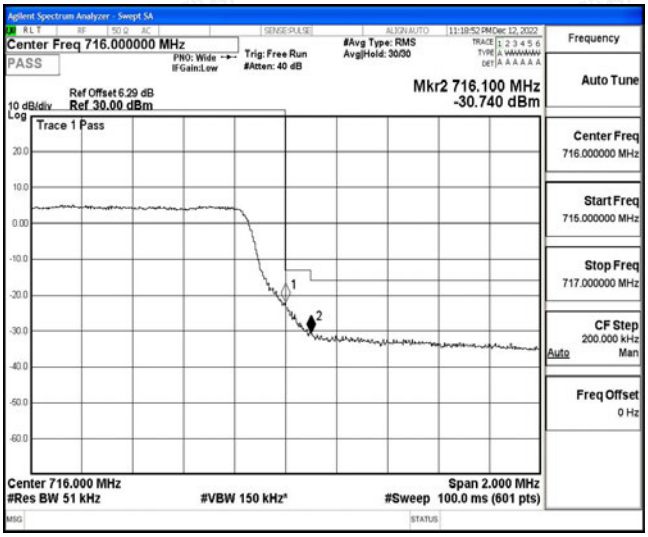
Band12-3MHz-QPSK-23165-15RB#0



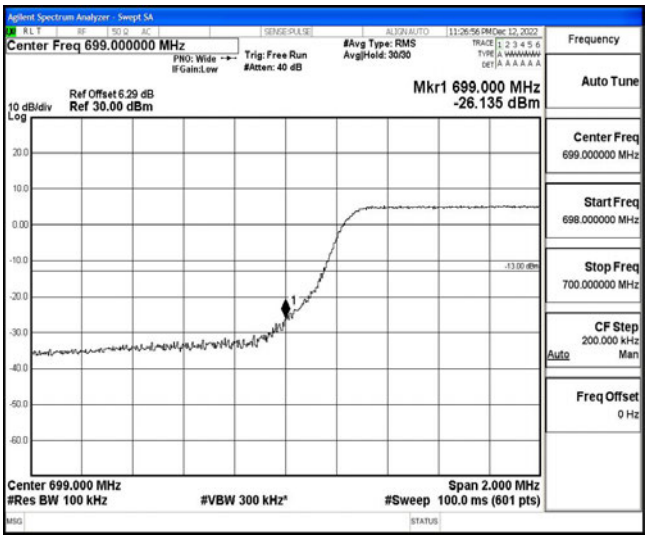
Band12-3MHz-16QAM-23025-15RB#0



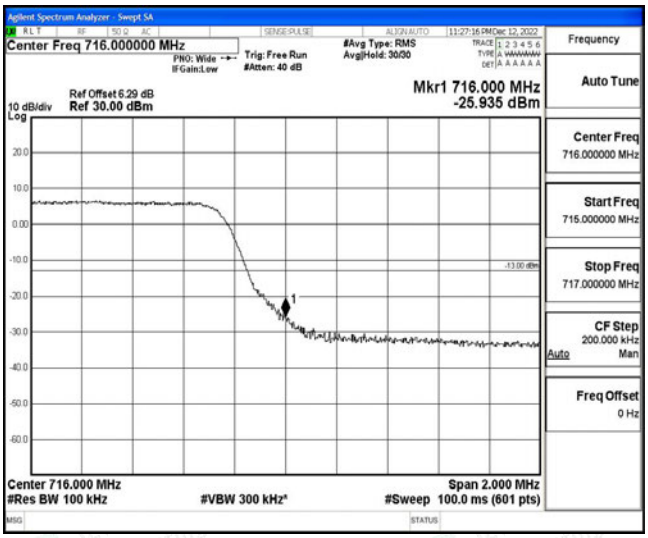
Band12-3MHz-16QAM-23165-15RB#0



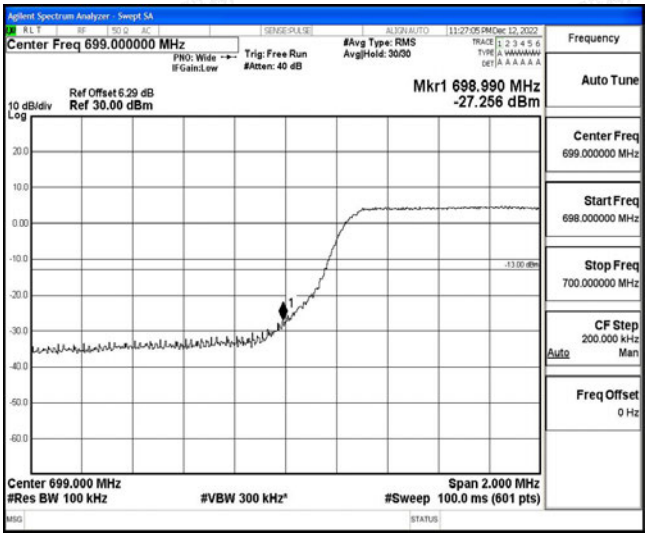
Band12-5MHz-QPSK-23035-25RB#0



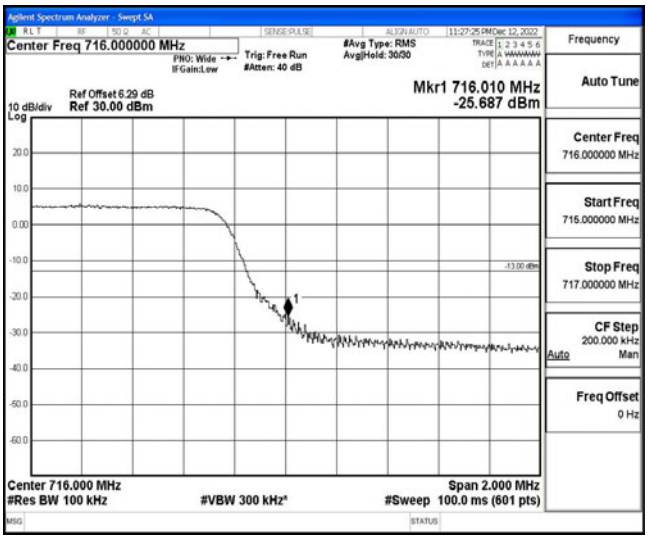
Band12-5MHz-QPSK-23155-25RB#0



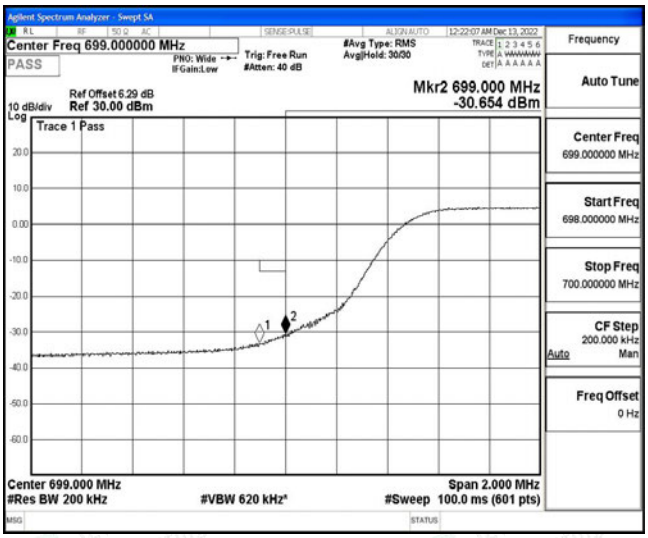
Band12-5MHz-16QAM-23035-25RB#0



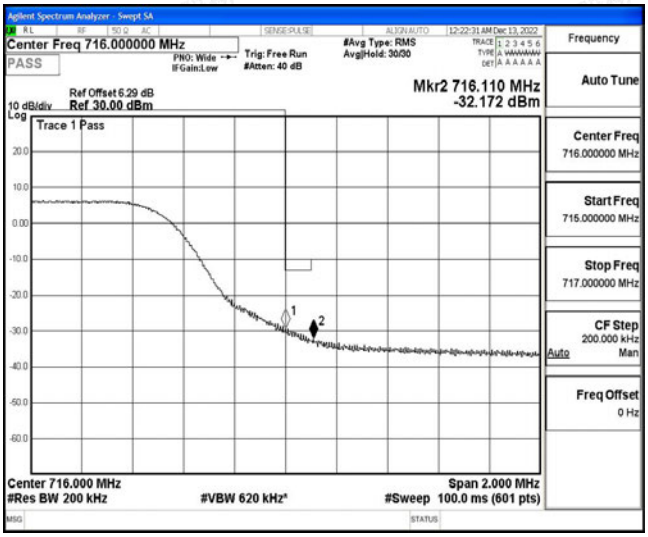
Band12-5MHz-16QAM-23155-25RB#0



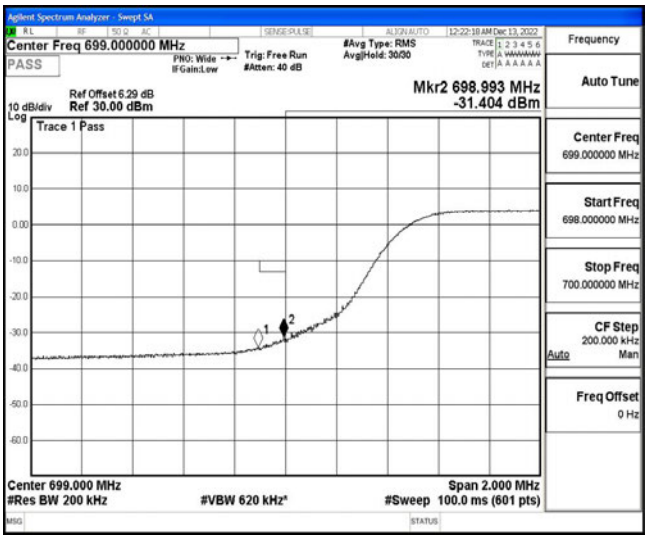
Band12-10MHz-QPSK-23060-50RB#0



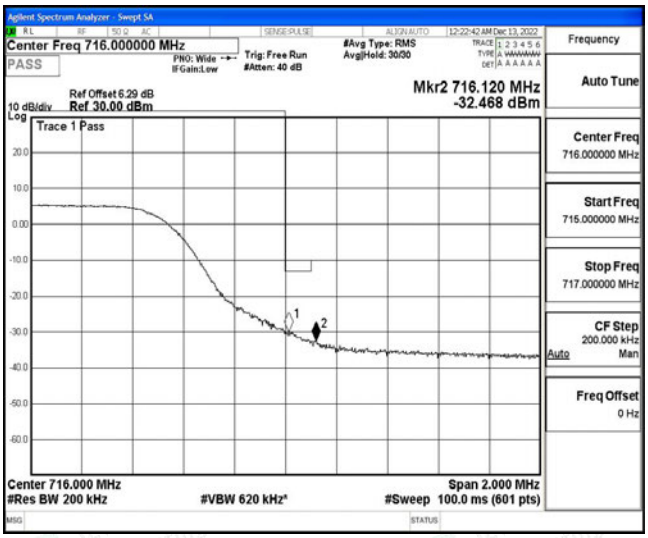
Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



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



D.5 Conducted Spurious Emission

Test Result

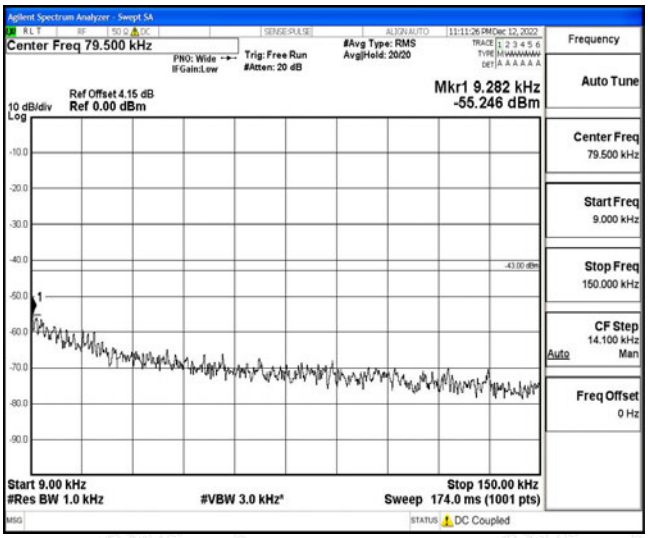
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range1:0.009~0.15MHz	-55.25	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range2:0.15~30MHz	-50.87	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range3:30~1000MHz	-41.31	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	Range4:1000~10000MHz	-44.82	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-54.6	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-52.02	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-40.84	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range4:1000~10000MHz	-44.89	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range1:0.009~0.15MHz	-54.78	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range2:0.15~30MHz	-51.63	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range3:30~1000MHz	-40.24	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range4:1000~10000MHz	-44.97	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range1:0.009~0.15MHz	-55.01	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range2:0.15~30MHz	-50.37	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range3:30~1000MHz	-40.57	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	Range4:1000~10000MHz	-45.02	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-54.25	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-49.82	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-40.58	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	Range4:1000~10000MHz	-44.94	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range1:0.009~0.15MHz	-53.97	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range2:0.15~30MHz	-51.32	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range3:30~1000MHz	-41.11	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	Range4:1000~10000MHz	-44.94	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range1:0.009~0.15MHz	-56.17	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range2:0.15~30MHz	-50.91	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range3:30~1000MHz	-40.72	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range4:1000~10000MHz	-44.93	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-55.3	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-52.23	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-40.82	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range4:1000~10000MHz	-44.97	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range1:0.009~0.15MHz	-53	PASS

Band12	3MHz	QPSK	23165	1RB#0	Range2:0.15~30MHz	-51.71	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range3:30~1000MHz	-41.01	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range4:1000~10000MHz	-44.94	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range1:0.009~0.15MHz	-55.74	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range2:0.15~30MHz	-52.45	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range3:30~1000MHz	-39.8	PASS
Band12	3MHz	16QAM	23025	1RB#0	Range4:1000~10000MHz	-44.96	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-56.51	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-51.88	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-40.71	PASS
Band12	3MHz	16QAM	23095	1RB#0	Range4:1000~10000MHz	-44.85	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range1:0.009~0.15MHz	-55.36	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range2:0.15~30MHz	-49.49	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range3:30~1000MHz	-40.54	PASS
Band12	3MHz	16QAM	23165	1RB#0	Range4:1000~10000MHz	-44.84	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range1:0.009~0.15MHz	-55.79	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range2:0.15~30MHz	-51.6	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range3:30~1000MHz	-41.13	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range4:1000~10000MHz	-44.86	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-55.28	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-51.46	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-41.02	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range4:1000~10000MHz	-44.72	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range1:0.009~0.15MHz	-56.04	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range2:0.15~30MHz	-51.12	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range3:30~1000MHz	-40.88	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range4:1000~10000MHz	-44.79	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range1:0.009~0.15MHz	-55.55	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range2:0.15~30MHz	-51.47	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range3:30~1000MHz	-40.62	PASS
Band12	5MHz	16QAM	23035	1RB#0	Range4:1000~10000MHz	-44.97	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-55.06	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-49.41	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-40.09	PASS
Band12	5MHz	16QAM	23095	1RB#0	Range4:1000~10000MHz	-44.92	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range1:0.009~0.15MHz	-54.1	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range2:0.15~30MHz	-53.03	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range3:30~1000MHz	-39.44	PASS
Band12	5MHz	16QAM	23155	1RB#0	Range4:1000~10000MHz	-44.89	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range1:0.009~0.15MHz	-55.25	PASS

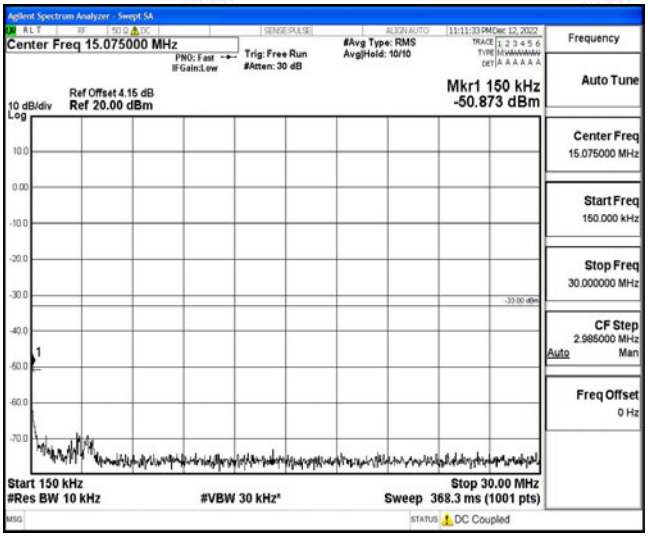
Band12	10MHz	QPSK	23060	1RB#0	Range2:0.15~30MHz	-50.05	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range3:30~1000MHz	-40.75	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range4:1000~10000MHz	-44.92	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:0.009~0.15MHz	-53.08	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:0.15~30MHz	-49.35	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range3:30~1000MHz	-41.1	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range4:1000~10000MHz	-44.91	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:0.009~0.15MHz	-56.51	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:0.15~30MHz	-53.03	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range3:30~1000MHz	-40.89	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range4:1000~10000MHz	-44.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:0.009~0.15MHz	-56.31	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:0.15~30MHz	-50.73	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range3:30~1000MHz	-41.36	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range4:1000~10000MHz	-44.87	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:0.009~0.15MHz	-56.5	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:0.15~30MHz	-50.03	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range3:30~1000MHz	-40.41	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range4:1000~10000MHz	-44.85	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:0.009~0.15MHz	-55.74	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:0.15~30MHz	-50.87	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range3:30~1000MHz	-40.46	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range4:1000~10000MHz	-45.01	PASS

Test Graphs

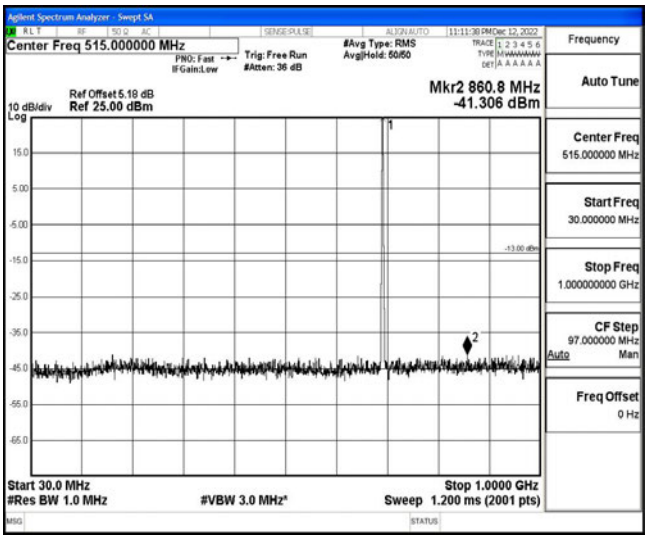
Band12-1.4MHz-QPSK-23017-1RB#0-Range1:0.009~0.15MHz



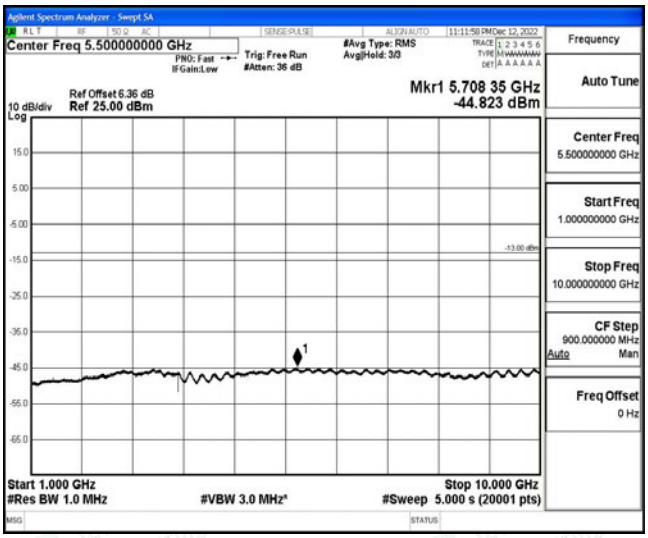
Band12-1.4MHz-QPSK-23017-1RB#0-Range2:0.15~30MHz



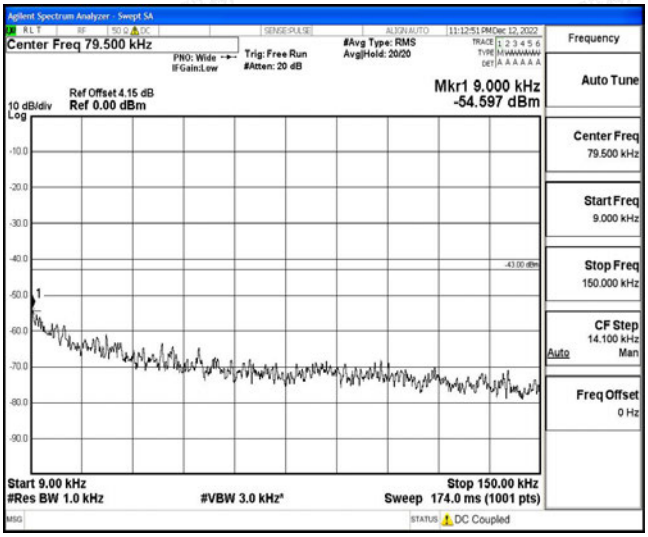
Band12-1.4MHz-QPSK-23017-1RB#0-Range3:30~1000MHz



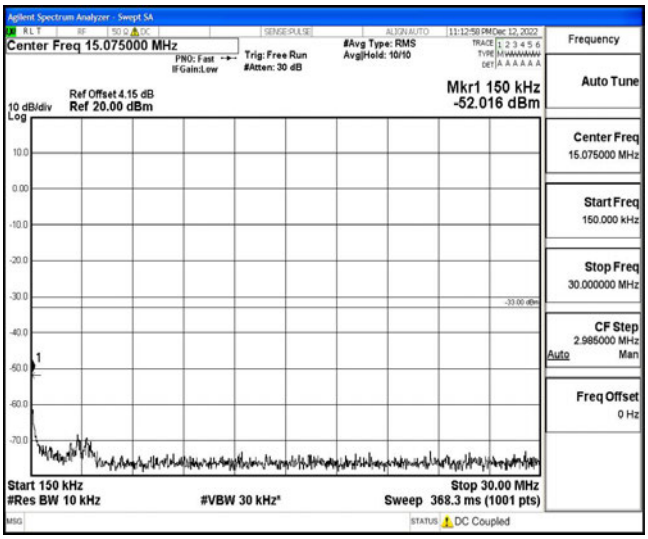
Band12-1.4MHz-QPSK-23017-1RB#0-Range4:1000~10000MHz



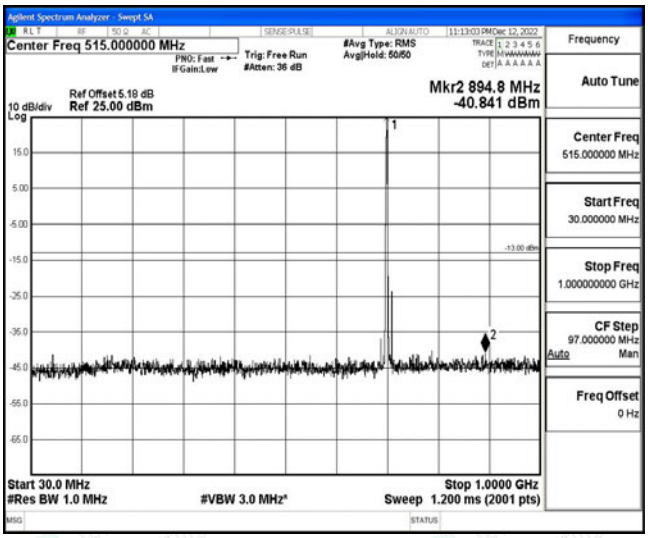
Band12-1.4MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



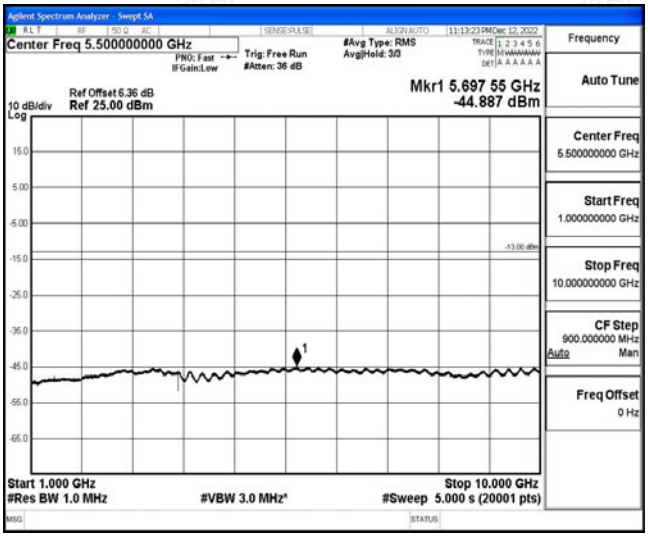
Band12-1.4MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



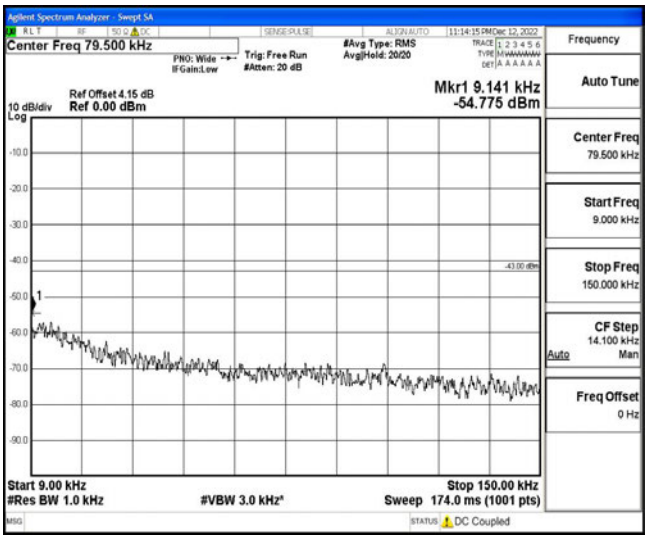
Band12-1.4MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



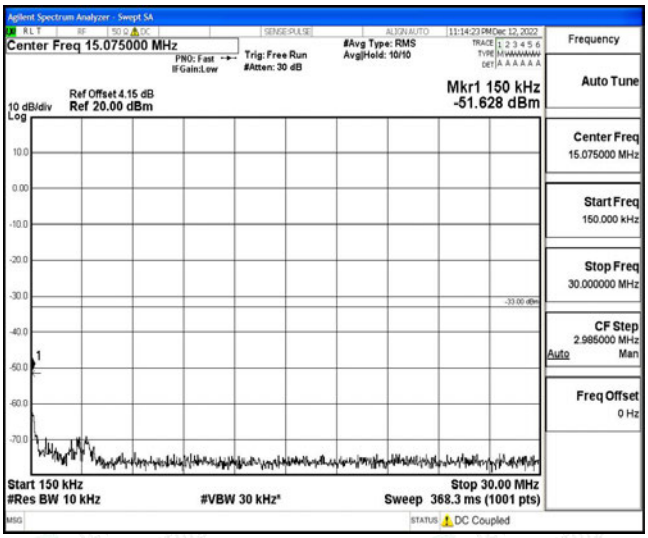
Band12-1.4MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



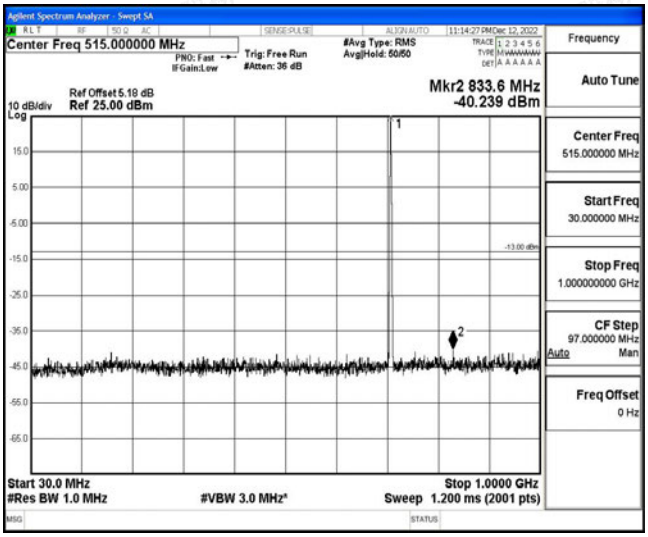
Band12-1.4MHz-QPSK-23173-1RB#0-Range1:0.009~0.15MHz



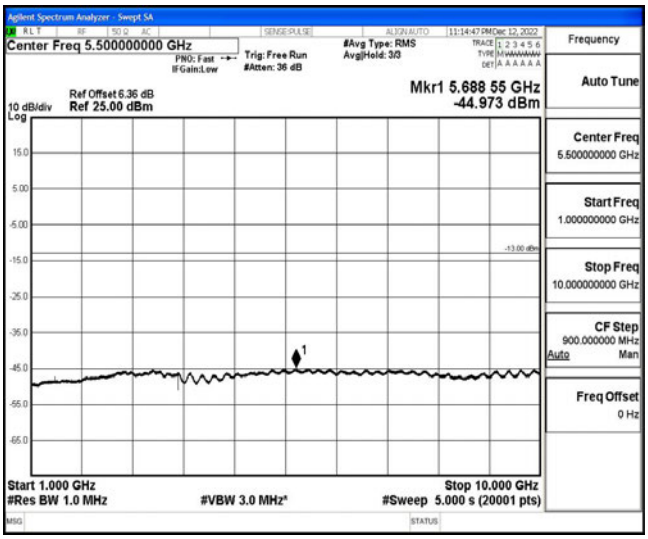
Band12-1.4MHz-QPSK-23173-1RB#0-Range2:0.15~30MHz



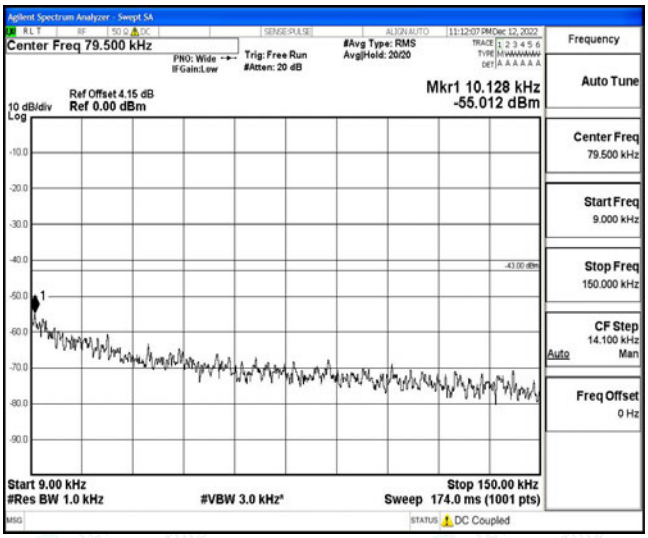
Band12-1.4MHz-QPSK-23173-1RB#0-Range3:30~1000MHz



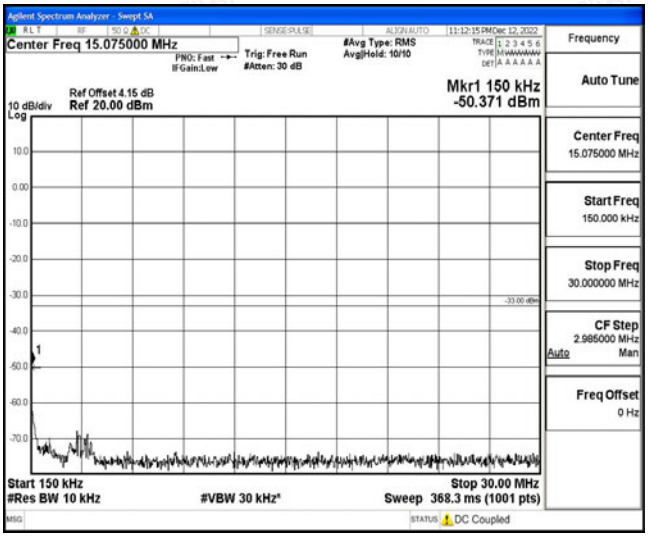
Band12-1.4MHz-QPSK-23173-1RB#0-Range4:1000~10000MHz



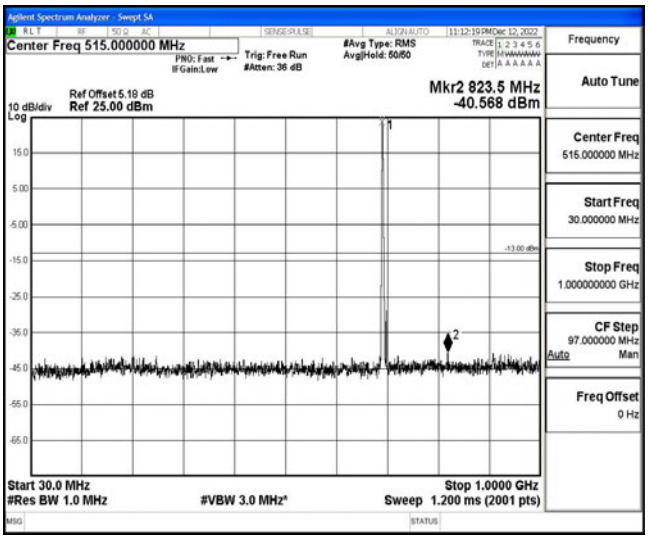
Band12-1.4MHz-16QAM-23017-1RB#0-Range1:0.009~0.15MHz



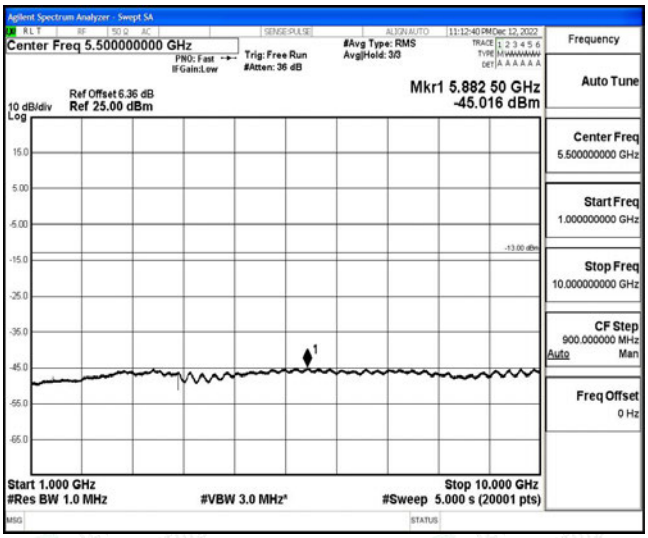
Band12-1.4MHz-16QAM-23017-1RB#0-Range2:0.15~30MHz



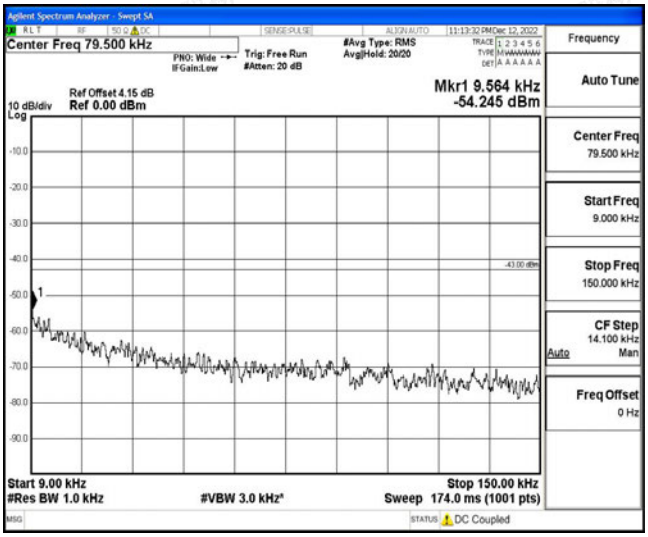
Band12-1.4MHz-16QAM-23017-1RB#0-Range3:30~1000MHz



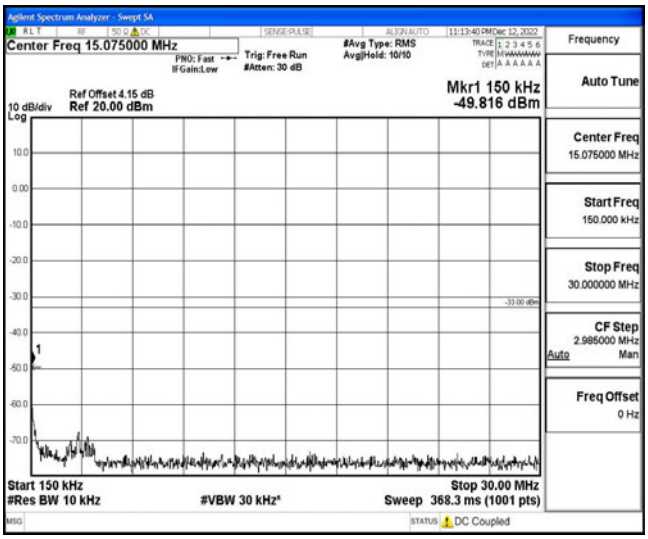
Band12-1.4MHz-16QAM-23017-1RB#0-Range4:1000~10000MHz



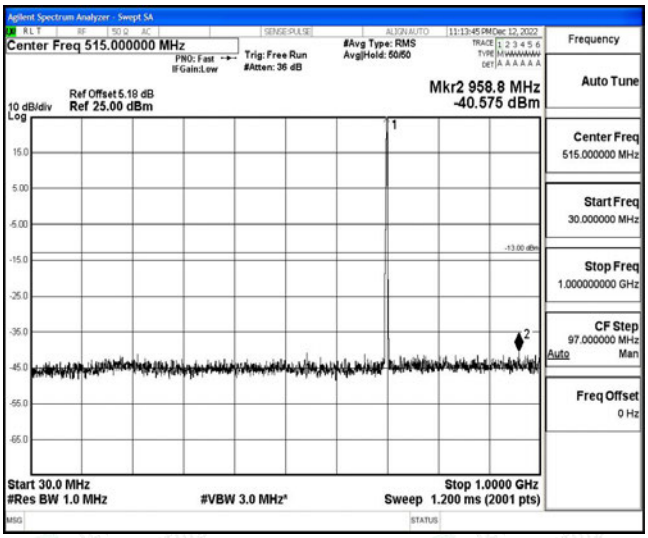
Band12-1.4MHz-16QAM-23095-1RB#0-Range1:0.009~0.15MHz



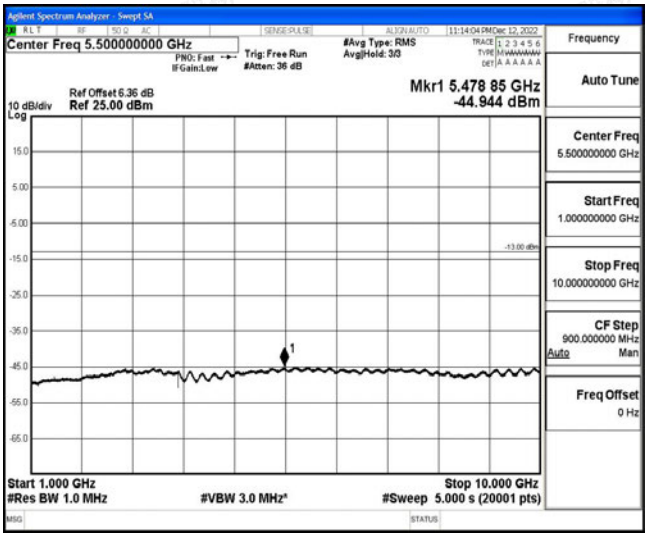
Band12-1.4MHz-16QAM-23095-1RB#0-Range2:0.15~30MHz



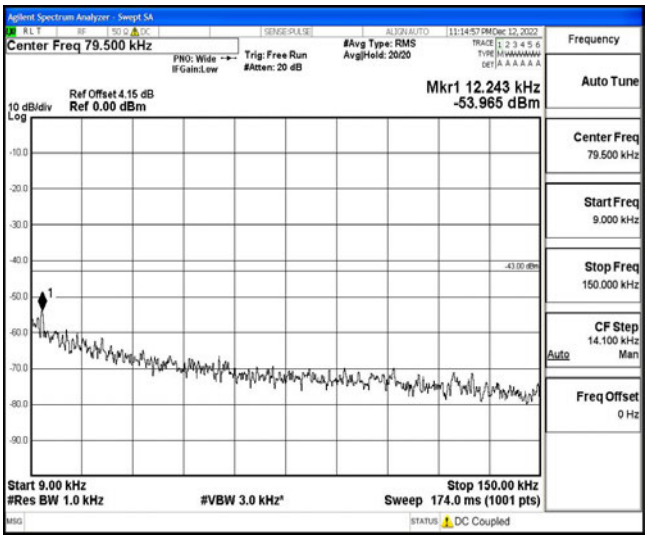
Band12-1.4MHz-16QAM-23095-1RB#0-Range3:30~1000MHz



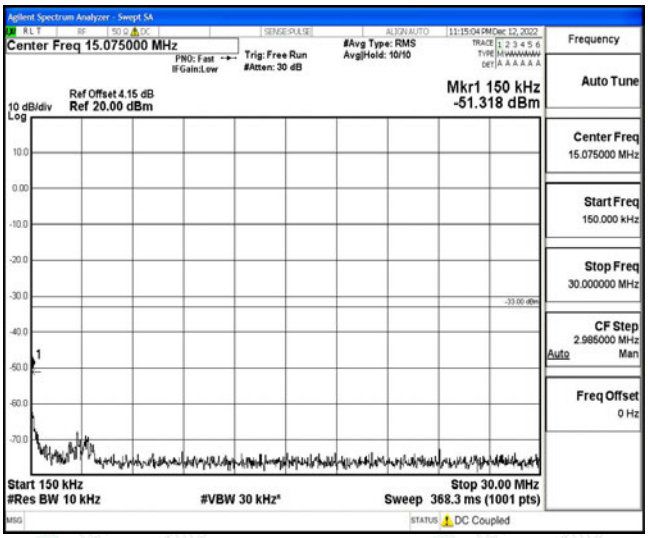
Band12-1.4MHz-16QAM-23095-1RB#0-Range4:1000~10000MHz



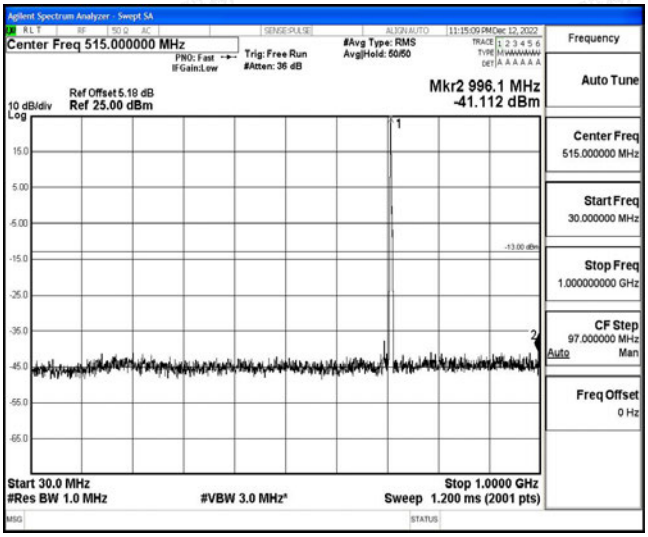
Band12-1.4MHz-16QAM-23173-1RB#0-Range1:0.009~0.15MHz



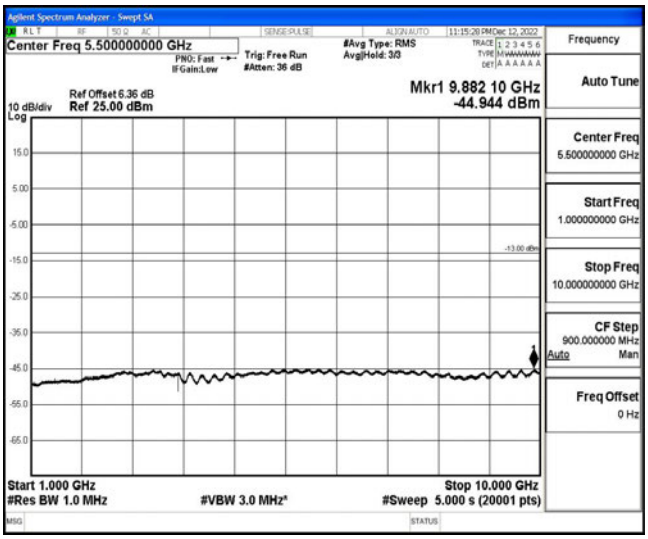
Band12-1.4MHz-16QAM-23173-1RB#0-Range2:0.15~30MHz



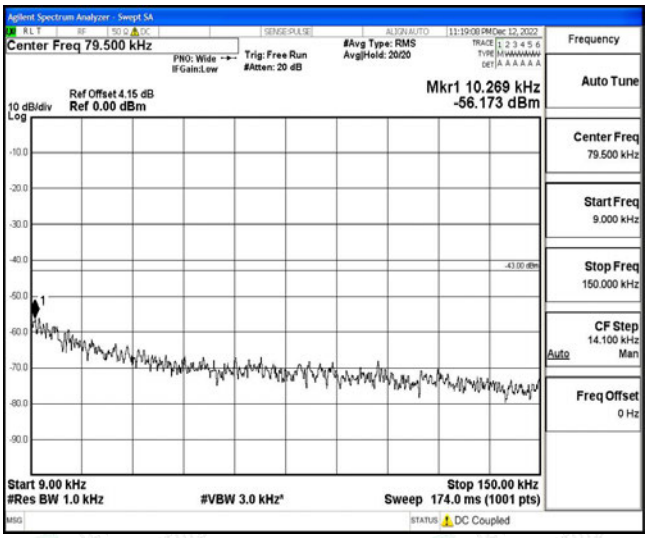
Band12-1.4MHz-16QAM-23173-1RB#0-Range3:30~1000MHz



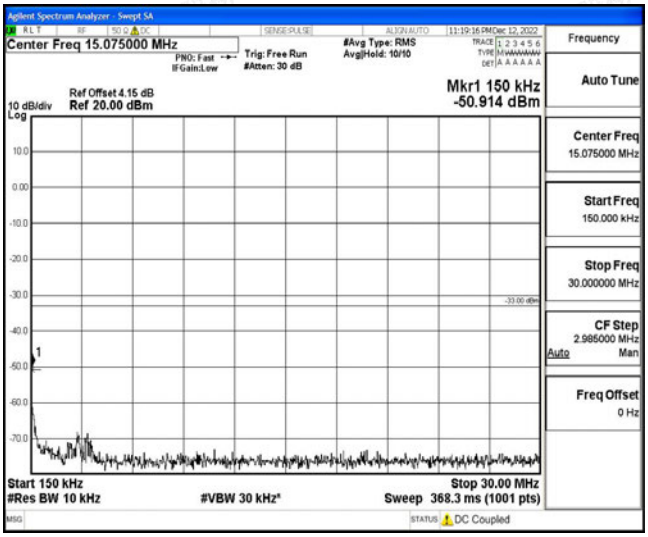
Band12-1.4MHz-16QAM-23173-1RB#0-Range4:1000~10000MHz



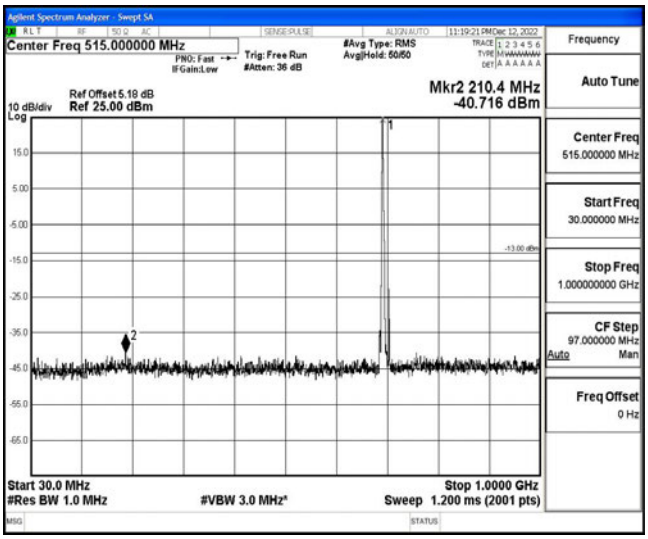
Band12-3MHz-QPSK-23025-1RB#0-Range1:0.009~0.15MHz



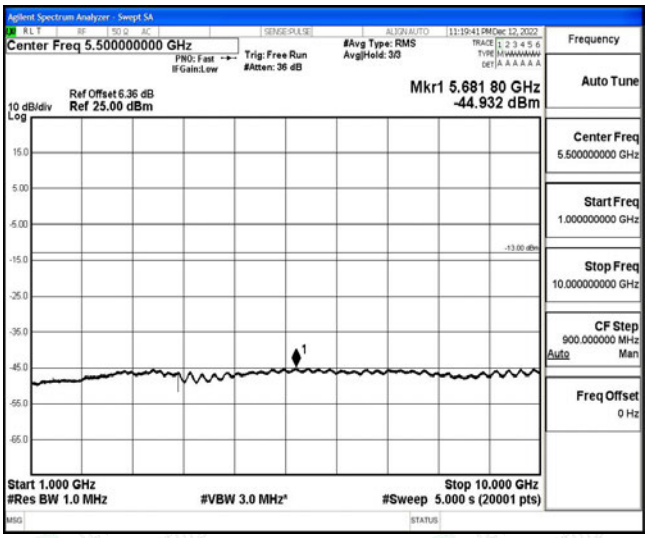
Band12-3MHz-QPSK-23025-1RB#0-Range2:0.15~30MHz



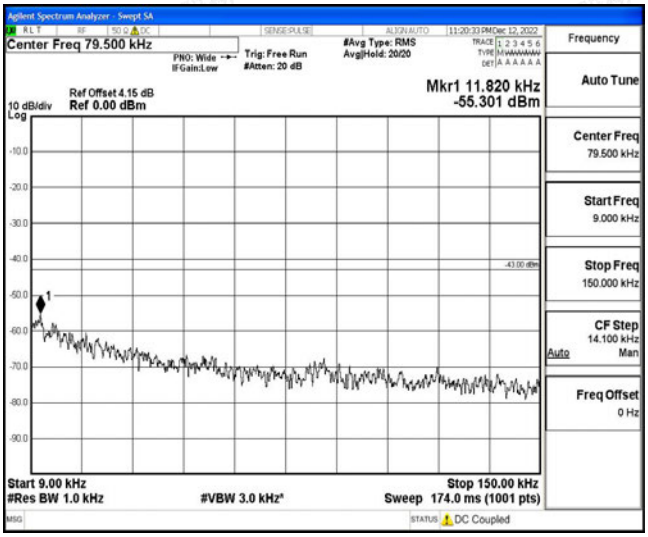
Band12-3MHz-QPSK-23025-1RB#0-Range3:30~1000MHz



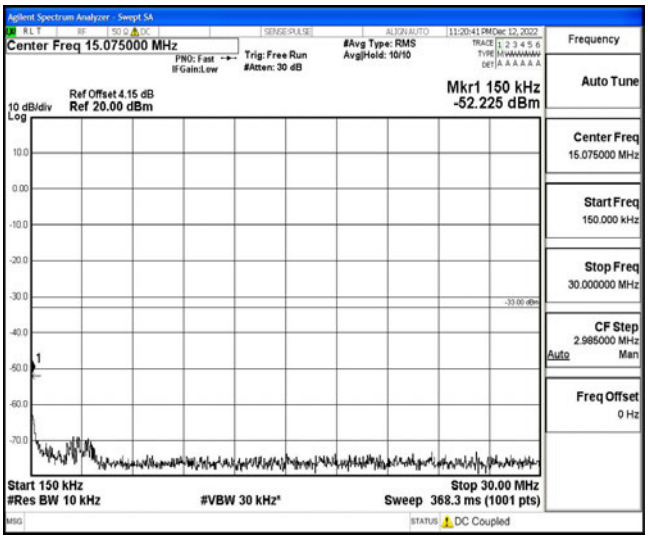
Band12-3MHz-QPSK-23025-1RB#0-Range4:1000~10000MHz



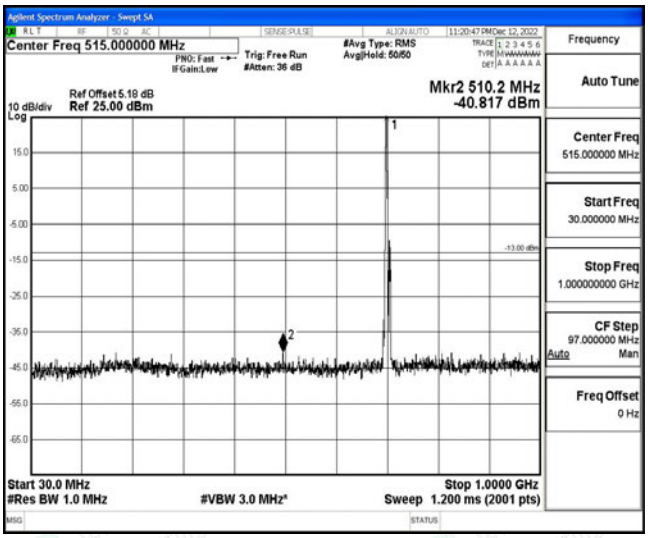
Band12-3MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



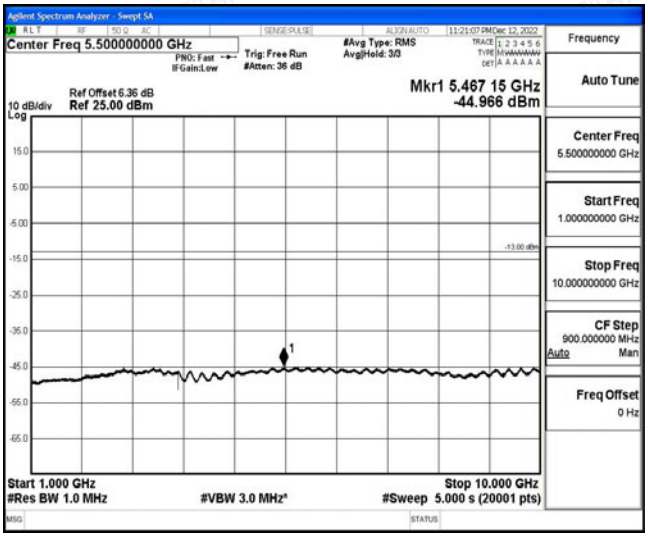
Band12-3MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



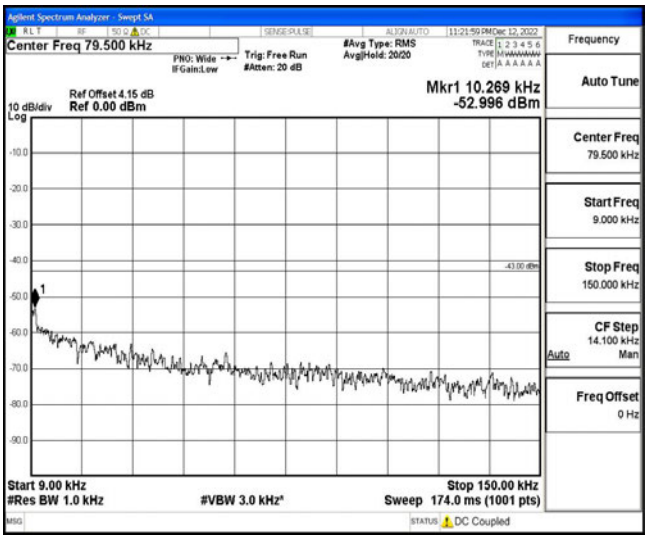
Band12-3MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



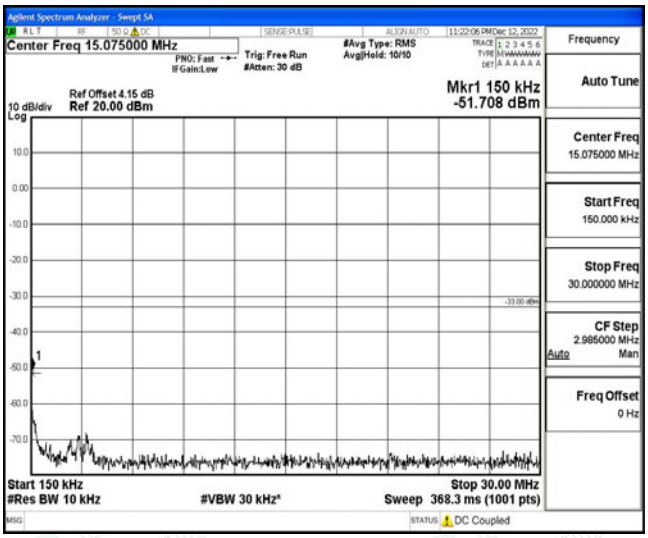
Band12-3MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



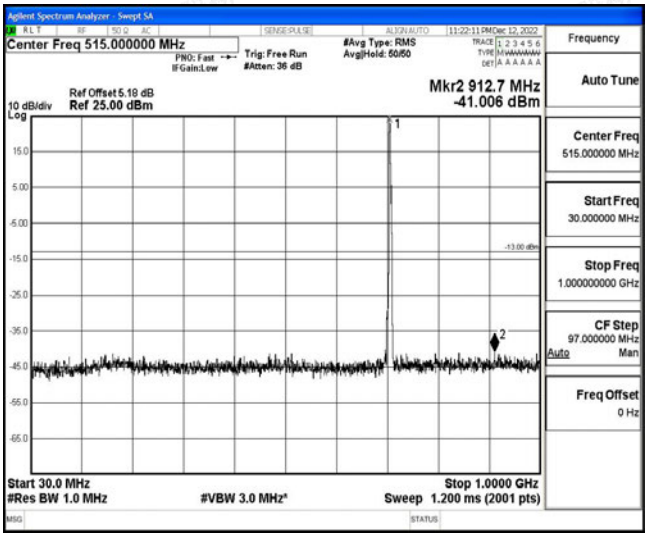
Band12-3MHz-QPSK-23165-1RB#0-Range1:0.009~0.15MHz



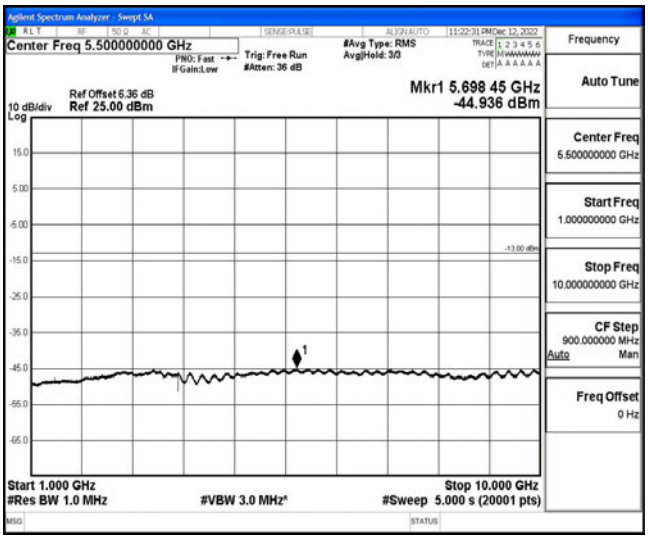
Band12-3MHz-QPSK-23165-1RB#0-Range2:0.15~30MHz



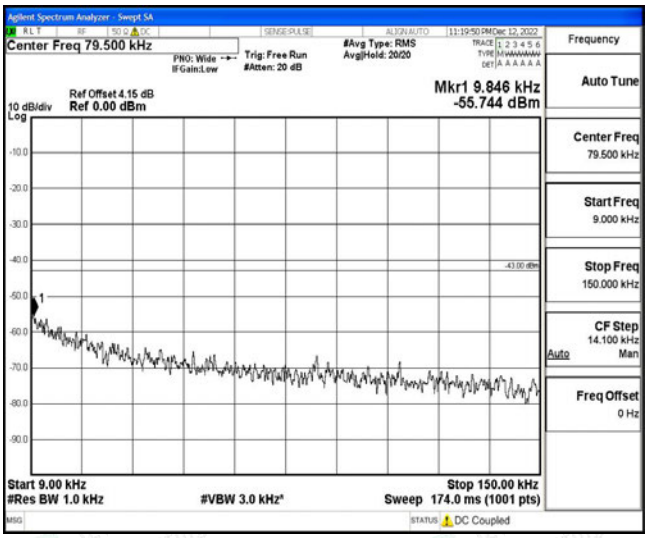
Band12-3MHz-QPSK-23165-1RB#0-Range3:30~1000MHz



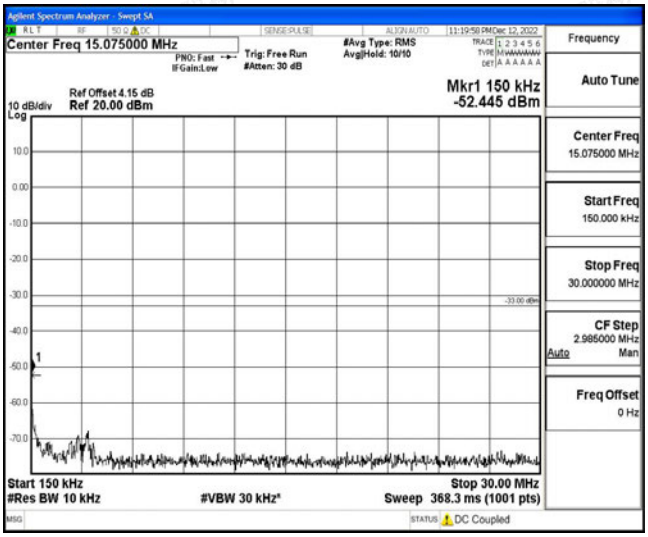
Band12-3MHz-QPSK-23165-1RB#0-Range4:1000~10000MHz



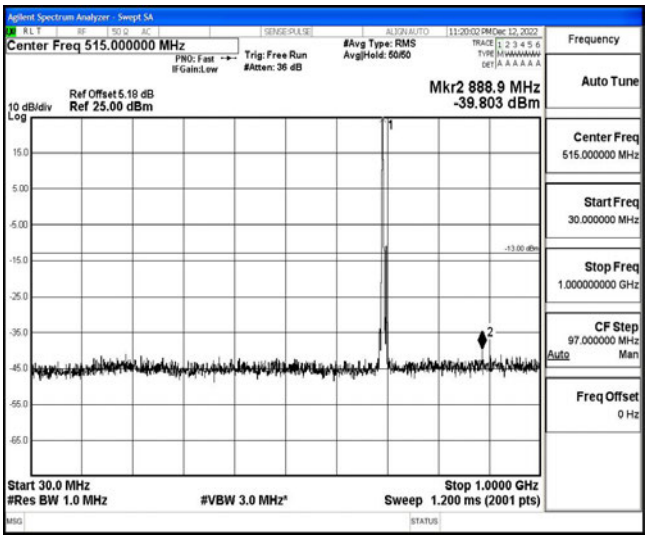
Band12-3MHz-16QAM-23025-1RB#0-Range1:0.009~0.15MHz



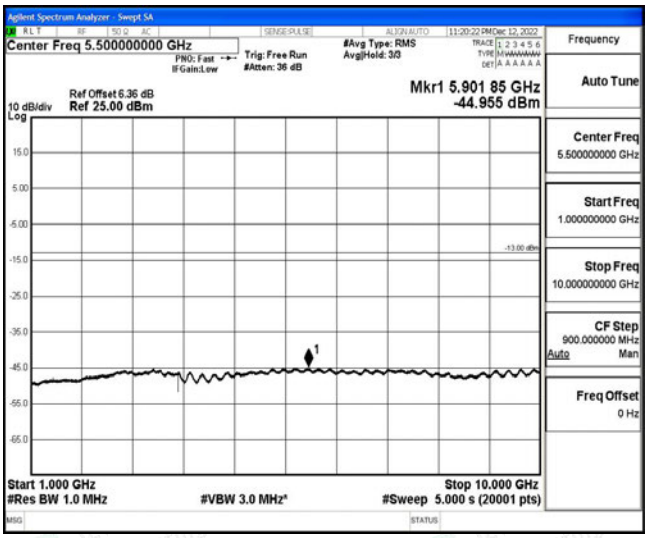
Band12-3MHz-16QAM-23025-1RB#0-Range2:0.15~30MHz



Band12-3MHz-16QAM-23025-1RB#0-Range3:30~1000MHz



Band12-3MHz-16QAM-23025-1RB#0-Range4:1000~10000MHz



Band12-3MHz-16QAM-23095-1RB#0-Range1:0.009~0.15MHz