

# Appendix for Band 12

Report No.: BCTC2203264445-6E

Applicant: Emdoor Information Co.,Ltd.

Product Name: Rugged Tablet

Model/Type  
reference: EM-I16H

Tested Date: 2022-03-31 to 2022-04-11

Issued Date: 2022-04-11

**Shenzhen BCTC Testing Co., Ltd.**

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## Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Average Powe [dBm]	E.R.P [dBm]	Verdict
Band12	1.4	23017	1	#0	QPSK	24.3	22.65	PASS
Band12	1.4	23017	1	#Mid	QPSK	24.51	22.86	PASS
Band12	1.4	23017	1	#Max	QPSK	24.47	22.82	PASS
Band12	1.4	23017	3	#0	QPSK	24.23	22.58	PASS
Band12	1.4	23017	3	#Mid	QPSK	24.37	22.72	PASS
Band12	1.4	23017	3	#Max	QPSK	24.47	22.82	PASS
Band12	1.4	23017	6	#0	QPSK	23.37	21.72	PASS
Band12	1.4	23017	1	#0	QAM16	23.18	21.53	PASS
Band12	1.4	23017	1	#Mid	QAM16	23.31	21.66	PASS
Band12	1.4	23017	1	#Max	QAM16	23.17	21.52	PASS
Band12	1.4	23017	3	#0	QAM16	23.57	21.92	PASS
Band12	1.4	23017	3	#Mid	QAM16	23.58	21.93	PASS
Band12	1.4	23017	3	#Max	QAM16	23.42	21.77	PASS
Band12	1.4	23017	6	#0	QAM16	22.44	20.79	PASS
Band12	1.4	23095	1	#0	QPSK	24.48	22.83	PASS
Band12	1.4	23095	1	#Mid	QPSK	24.68	23.03	PASS
Band12	1.4	23095	1	#Max	QPSK	24.42	22.77	PASS
Band12	1.4	23095	3	#0	QPSK	24.3	22.65	PASS
Band12	1.4	23095	3	#Mid	QPSK	24.28	22.63	PASS
Band12	1.4	23095	3	#Max	QPSK	24.34	22.69	PASS
Band12	1.4	23095	6	#0	QPSK	23.43	21.78	PASS
Band12	1.4	23095	1	#0	QAM16	23.33	21.68	PASS
Band12	1.4	23095	1	#Mid	QAM16	23.51	21.86	PASS
Band12	1.4	23095	1	#Max	QAM16	23.29	21.64	PASS
Band12	1.4	23095	3	#0	QAM16	23.43	21.78	PASS
Band12	1.4	23095	3	#Mid	QAM16	23.47	21.82	PASS
Band12	1.4	23095	3	#Max	QAM16	23.36	21.71	PASS
Band12	1.4	23095	6	#0	QAM16	22.48	20.83	PASS
Band12	1.4	23173	1	#0	QPSK	23.92	22.27	PASS
Band12	1.4	23173	1	#Mid	QPSK	24.17	22.52	PASS
Band12	1.4	23173	1	#Max	QPSK	24.24	22.59	PASS
Band12	1.4	23173	3	#0	QPSK	24.24	22.59	PASS
Band12	1.4	23173	3	#Mid	QPSK	24.41	22.76	PASS
Band12	1.4	23173	3	#Max	QPSK	24.16	22.51	PASS
Band12	1.4	23173	6	#0	QPSK	23.33	21.68	PASS
Band12	1.4	23173	1	#0	QAM16	23.14	21.49	PASS
Band12	1.4	23173	1	#Mid	QAM16	23.17	21.52	PASS

Band12	1.4	23173	1	#Max	QAM16	23.12	21.47	PASS
Band12	1.4	23173	3	#0	QAM16	23.2	21.55	PASS
Band12	1.4	23173	3	#Mid	QAM16	23.29	21.64	PASS
Band12	1.4	23173	3	#Max	QAM16	23.59	21.94	PASS
Band12	1.4	23173	6	#0	QAM16	22.5	20.85	PASS
Band12	3	23025	1	#0	QPSK	24.32	22.67	PASS
Band12	3	23025	1	#Mid	QPSK	24.43	22.78	PASS
Band12	3	23025	1	#Max	QPSK	24.5	22.85	PASS
Band12	3	23025	8	#0	QPSK	23.36	21.71	PASS
Band12	3	23025	8	#Mid	QPSK	23.37	21.72	PASS
Band12	3	23025	8	#Max	QPSK	23.39	21.74	PASS
Band12	3	23025	15	#0	QPSK	23.32	21.67	PASS
Band12	3	23025	1	#0	QAM16	23.76	22.11	PASS
Band12	3	23025	1	#Mid	QAM16	23.63	21.98	PASS
Band12	3	23025	1	#Max	QAM16	23.71	22.06	PASS
Band12	3	23025	8	#0	QAM16	22.04	20.39	PASS
Band12	3	23025	8	#Mid	QAM16	22.06	20.41	PASS
Band12	3	23025	8	#Max	QAM16	22.06	20.41	PASS
Band12	3	23025	15	#0	QAM16	22.39	20.74	PASS
Band12	3	23095	1	#0	QPSK	24.32	22.67	PASS
Band12	3	23095	1	#Mid	QPSK	24.35	22.70	PASS
Band12	3	23095	1	#Max	QPSK	24.12	22.47	PASS
Band12	3	23095	8	#0	QPSK	23.42	21.77	PASS
Band12	3	23095	8	#Mid	QPSK	23.41	21.76	PASS
Band12	3	23095	8	#Max	QPSK	23.25	21.60	PASS
Band12	3	23095	15	#0	QPSK	23.38	21.73	PASS
Band12	3	23095	1	#0	QAM16	23.16	21.51	PASS
Band12	3	23095	1	#Mid	QAM16	23.02	21.37	PASS
Band12	3	23095	1	#Max	QAM16	23	21.35	PASS
Band12	3	23095	8	#0	QAM16	22.28	20.63	PASS
Band12	3	23095	8	#Mid	QAM16	22.31	20.66	PASS
Band12	3	23095	8	#Max	QAM16	22.2	20.55	PASS
Band12	3	23095	15	#0	QAM16	22.38	20.73	PASS
Band12	3	23165	1	#0	QPSK	24.25	22.60	PASS
Band12	3	23165	1	#Mid	QPSK	24.37	22.72	PASS
Band12	3	23165	1	#Max	QPSK	24.54	22.89	PASS
Band12	3	23165	8	#0	QPSK	23.41	21.76	PASS
Band12	3	23165	8	#Mid	QPSK	23.46	21.81	PASS
Band12	3	23165	8	#Max	QPSK	23.4	21.75	PASS
Band12	3	23165	15	#0	QPSK	23.34	21.69	PASS
Band12	3	23165	1	#0	QAM16	23.23	21.58	PASS
Band12	3	23165	1	#Mid	QAM16	23.16	21.51	PASS
Band12	3	23165	1	#Max	QAM16	23.27	21.62	PASS

Band12	3	23165	8	#0	QAM16	22.09	20.44	PASS
Band12	3	23165	8	#Mid	QAM16	22.16	20.51	PASS
Band12	3	23165	8	#Max	QAM16	22.25	20.60	PASS
Band12	3	23165	15	#0	QAM16	22.42	20.77	PASS
Band12	5	23035	1	#0	QPSK	24.19	22.54	PASS
Band12	5	23035	1	#Mid	QPSK	24.45	22.80	PASS
Band12	5	23035	1	#Max	QPSK	24.36	22.71	PASS
Band12	5	23035	12	#0	QPSK	23.47	21.82	PASS
Band12	5	23035	12	#Mid	QPSK	23.41	21.76	PASS
Band12	5	23035	12	#Max	QPSK	23.4	21.75	PASS
Band12	5	23035	25	#0	QPSK	23.34	21.69	PASS
Band12	5	23035	1	#0	QAM16	23.39	21.74	PASS
Band12	5	23035	1	#Mid	QAM16	23.3	21.65	PASS
Band12	5	23035	1	#Max	QAM16	23.62	21.97	PASS
Band12	5	23035	12	#0	QAM16	22.11	20.46	PASS
Band12	5	23035	12	#Mid	QAM16	22.15	20.50	PASS
Band12	5	23035	12	#Max	QAM16	22.33	20.68	PASS
Band12	5	23035	25	#0	QAM16	22.44	20.79	PASS
Band12	5	23095	1	#0	QPSK	24.39	22.74	PASS
Band12	5	23095	1	#Mid	QPSK	24.3	22.65	PASS
Band12	5	23095	1	#Max	QPSK	24.1	22.45	PASS
Band12	5	23095	12	#0	QPSK	23.38	21.73	PASS
Band12	5	23095	12	#Mid	QPSK	23.46	21.81	PASS
Band12	5	23095	12	#Max	QPSK	23.38	21.73	PASS
Band12	5	23095	25	#0	QPSK	23.41	21.76	PASS
Band12	5	23095	1	#0	QAM16	23.41	21.76	PASS
Band12	5	23095	1	#Mid	QAM16	23.46	21.81	PASS
Band12	5	23095	1	#Max	QAM16	23.13	21.48	PASS
Band12	5	23095	12	#0	QAM16	22.11	20.46	PASS
Band12	5	23095	12	#Mid	QAM16	22.23	20.58	PASS
Band12	5	23095	12	#Max	QAM16	22.2	20.55	PASS
Band12	5	23095	25	#0	QAM16	22.33	20.68	PASS
Band12	5	23155	1	#0	QPSK	24.29	22.64	PASS
Band12	5	23155	1	#Mid	QPSK	24.4	22.75	PASS
Band12	5	23155	1	#Max	QPSK	24.33	22.68	PASS
Band12	5	23155	12	#0	QPSK	23.39	21.74	PASS
Band12	5	23155	12	#Mid	QPSK	23.4	21.75	PASS
Band12	5	23155	12	#Max	QPSK	23.32	21.67	PASS
Band12	5	23155	25	#0	QPSK	23.31	21.66	PASS
Band12	5	23155	1	#0	QAM16	23.43	21.78	PASS
Band12	5	23155	1	#Mid	QAM16	23.51	21.86	PASS
Band12	5	23155	1	#Max	QAM16	23.33	21.68	PASS
Band12	5	23155	12	#0	QAM16	22.31	20.66	PASS

Band12	5	23155	12	#Mid	QAM16	22.3	20.65	PASS
Band12	5	23155	12	#Max	QAM16	22.39	20.74	PASS
Band12	5	23155	25	#0	QAM16	22.42	20.77	PASS
Band12	10	23060	1	#0	QPSK	24.17	22.52	PASS
Band12	10	23060	1	#Mid	QPSK	24.4	22.75	PASS
Band12	10	23060	1	#Max	QPSK	24.35	22.70	PASS
Band12	10	23060	25	#0	QPSK	23.27	21.62	PASS
Band12	10	23060	25	#Mid	QPSK	23.48	21.83	PASS
Band12	10	23060	25	#Max	QPSK	23.47	21.82	PASS
Band12	10	23060	50	#0	QPSK	23.43	21.78	PASS
Band12	10	23060	1	#0	QAM16	23.62	21.97	PASS
Band12	10	23060	1	#Mid	QAM16	23.85	22.20	PASS
Band12	10	23060	1	#Max	QAM16	23.71	22.06	PASS
Band12	10	23060	25	#0	QAM16	22.32	20.67	PASS
Band12	10	23060	25	#Mid	QAM16	22.44	20.79	PASS
Band12	10	23060	25	#Max	QAM16	22.41	20.76	PASS
Band12	10	23060	50	#0	QAM16	22.43	20.78	PASS
Band12	10	23095	1	#0	QPSK	24.19	22.54	PASS
Band12	10	23095	1	#Mid	QPSK	24.35	22.70	PASS
Band12	10	23095	1	#Max	QPSK	24.2	22.55	PASS
Band12	10	23095	25	#0	QPSK	23.34	21.69	PASS
Band12	10	23095	25	#Mid	QPSK	23.4	21.75	PASS
Band12	10	23095	25	#Max	QPSK	23.37	21.72	PASS
Band12	10	23095	50	#0	QPSK	23.36	21.71	PASS
Band12	10	23095	1	#0	QAM16	23.01	21.36	PASS
Band12	10	23095	1	#Mid	QAM16	23.09	21.44	PASS
Band12	10	23095	1	#Max	QAM16	22.94	21.29	PASS
Band12	10	23095	25	#0	QAM16	22.37	20.72	PASS
Band12	10	23095	25	#Mid	QAM16	22.6	20.95	PASS
Band12	10	23095	25	#Max	QAM16	22.58	20.93	PASS
Band12	10	23095	50	#0	QAM16	22.5	20.85	PASS
Band12	10	23130	1	#0	QPSK	24.27	22.62	PASS
Band12	10	23130	1	#Mid	QPSK	24.61	22.96	PASS
Band12	10	23130	1	#Max	QPSK	24.23	22.58	PASS
Band12	10	23130	25	#0	QPSK	23.47	21.82	PASS
Band12	10	23130	25	#Mid	QPSK	23.49	21.84	PASS
Band12	10	23130	25	#Max	QPSK	23.37	21.72	PASS
Band12	10	23130	50	#0	QPSK	23.39	21.74	PASS
Band12	10	23130	1	#0	QAM16	23.23	21.58	PASS
Band12	10	23130	1	#Mid	QAM16	23.29	21.64	PASS
Band12	10	23130	1	#Max	QAM16	23	21.35	PASS
Band12	10	23130	25	#0	QAM16	22.48	20.83	PASS
Band12	10	23130	25	#Mid	QAM16	22.48	20.83	PASS

Band12	10	23130	25	#Max	QAM16	22.51	20.86	PASS
Band12	10	23130	50	#0	QAM16	22.41	20.76	PASS

## Appendix 2. Frequency stability

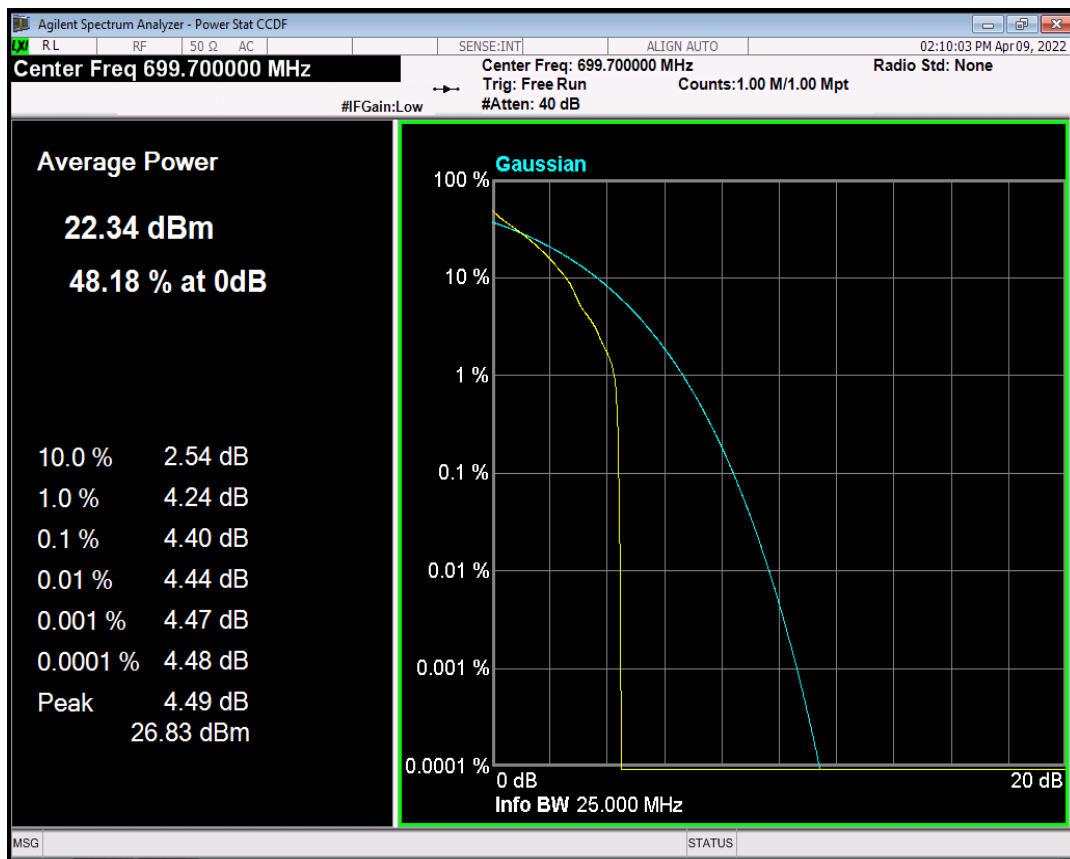
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
Band12	1.4	23017	6	#0	QPSK	-1.33	-0.002	-2.5	2.5	PASS
Band12	1.4	23017	6	#0	QAM16	-0.80	-0.001	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QPSK	-1.20	-0.002	-2.5	2.5	PASS
Band12	1.4	23095	6	#0	QAM16	-0.97	-0.001	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QPSK	0.31	0.000	-2.5	2.5	PASS
Band12	1.4	23173	6	#0	QAM16	-1.30	-0.002	-2.5	2.5	PASS
Band12	3	23025	15	#0	QPSK	-2.07	-0.003	-2.5	2.5	PASS
Band12	3	23025	15	#0	QAM16	-2.03	-0.003	-2.5	2.5	PASS
Band12	3	23095	15	#0	QPSK	-0.56	-0.001	-2.5	2.5	PASS
Band12	3	23095	15	#0	QAM16	-1.49	-0.002	-2.5	2.5	PASS
Band12	3	23165	15	#0	QPSK	-1.02	-0.001	-2.5	2.5	PASS
Band12	3	23165	15	#0	QAM16	-0.92	-0.001	-2.5	2.5	PASS
Band12	5	23035	25	#0	QPSK	-1.34	-0.002	-2.5	2.5	PASS
Band12	5	23035	25	#0	QAM16	-1.03	-0.001	-2.5	2.5	PASS
Band12	5	23095	25	#0	QPSK	-0.86	-0.001	-2.5	2.5	PASS
Band12	5	23095	25	#0	QAM16	-1.49	-0.002	-2.5	2.5	PASS
Band12	5	23155	25	#0	QPSK	-0.46	-0.001	-2.5	2.5	PASS
Band12	5	23155	25	#0	QAM16	-1.19	-0.002	-2.5	2.5	PASS
Band12	10	23060	50	#0	QPSK	-0.19	0.000	-2.5	2.5	PASS
Band12	10	23060	50	#0	QAM16	-0.43	-0.001	-2.5	2.5	PASS
Band12	10	23095	50	#0	QPSK	-2.02	-0.003	-2.5	2.5	PASS
Band12	10	23095	50	#0	QAM16	-1.67	-0.002	-2.5	2.5	PASS
Band12	10	23130	50	#0	QPSK	-2.43	-0.003	-2.5	2.5	PASS
Band12	10	23130	50	#0	QAM16	-1.86	-0.003	-2.5	2.5	PASS

## Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band12	1.4	23017	1	#0	QPSK	4.40	13	PASS
Band12	1.4	23017	1	#0	QAM16	5.31	13	PASS
Band12	1.4	23095	1	#0	QPSK	4.48	13	PASS
Band12	1.4	23095	1	#0	QAM16	5.40	13	PASS
Band12	1.4	23173	1	#0	QPSK	4.35	13	PASS

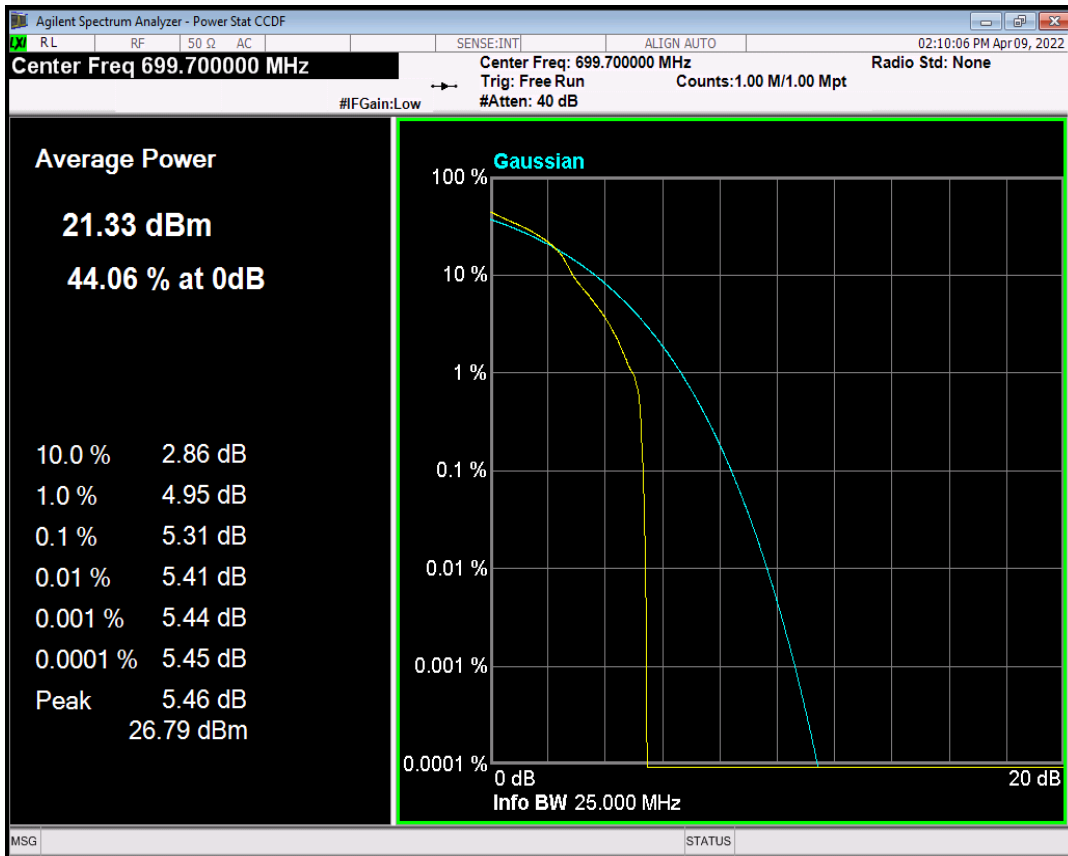
Band12	1.4	23173	1	#0	QAM16	5.22	13	PASS
Band12	3	23025	1	#0	QPSK	4.41	13	PASS
Band12	3	23025	1	#0	QAM16	5.24	13	PASS
Band12	3	23095	1	#0	QPSK	4.45	13	PASS
Band12	3	23095	1	#0	QAM16	5.33	13	PASS
Band12	3	23165	1	#0	QPSK	4.46	13	PASS
Band12	3	23165	1	#0	QAM16	5.31	13	PASS
Band12	5	23035	1	#0	QPSK	4.42	13	PASS
Band12	5	23035	1	#0	QAM16	5.20	13	PASS
Band12	5	23095	1	#0	QPSK	4.43	13	PASS
Band12	5	23095	1	#0	QAM16	5.18	13	PASS
Band12	5	23155	1	#0	QPSK	4.40	13	PASS
Band12	5	23155	1	#0	QAM16	5.06	13	PASS
Band12	10	23060	1	#0	QPSK	4.36	13	PASS
Band12	10	23060	1	#0	QAM16	5.26	13	PASS
Band12	10	23095	1	#0	QPSK	4.41	13	PASS
Band12	10	23095	1	#0	QAM16	5.31	13	PASS
Band12	10	23130	1	#0	QPSK	4.45	13	PASS
Band12	10	23130	1	#0	QAM16	5.35	13	PASS

Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#0

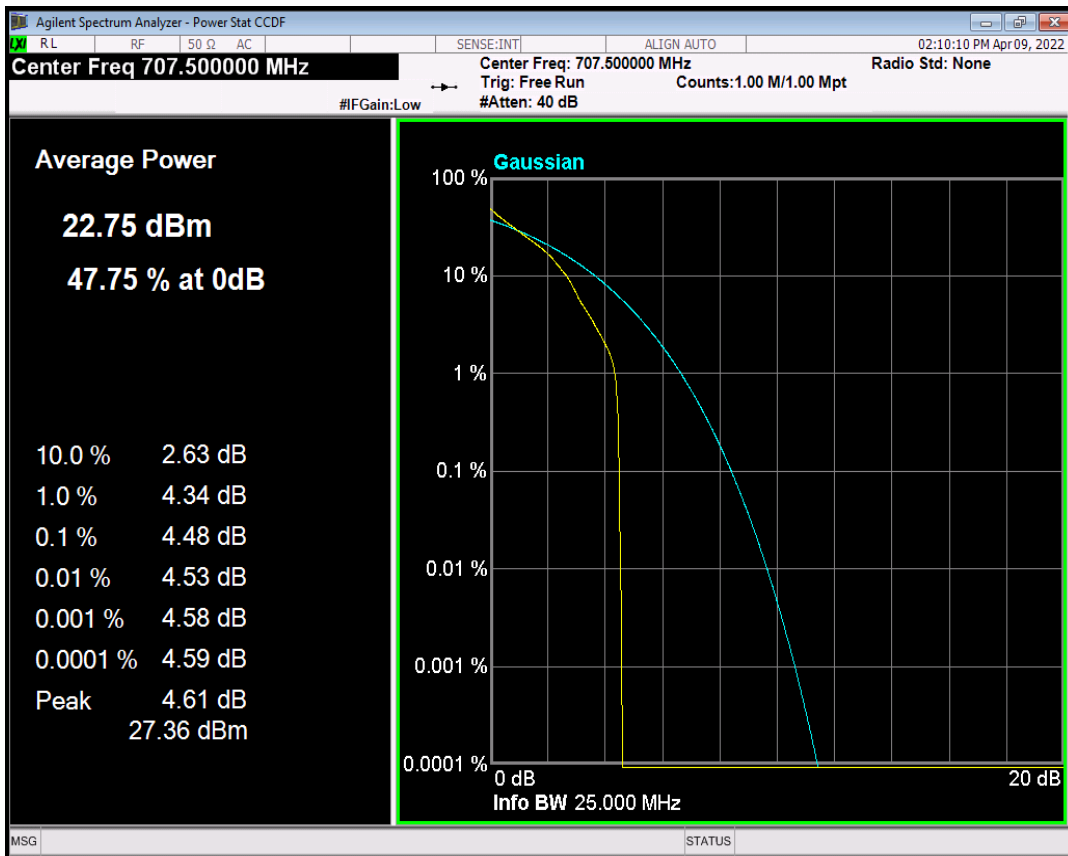


Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=1 Position=#0

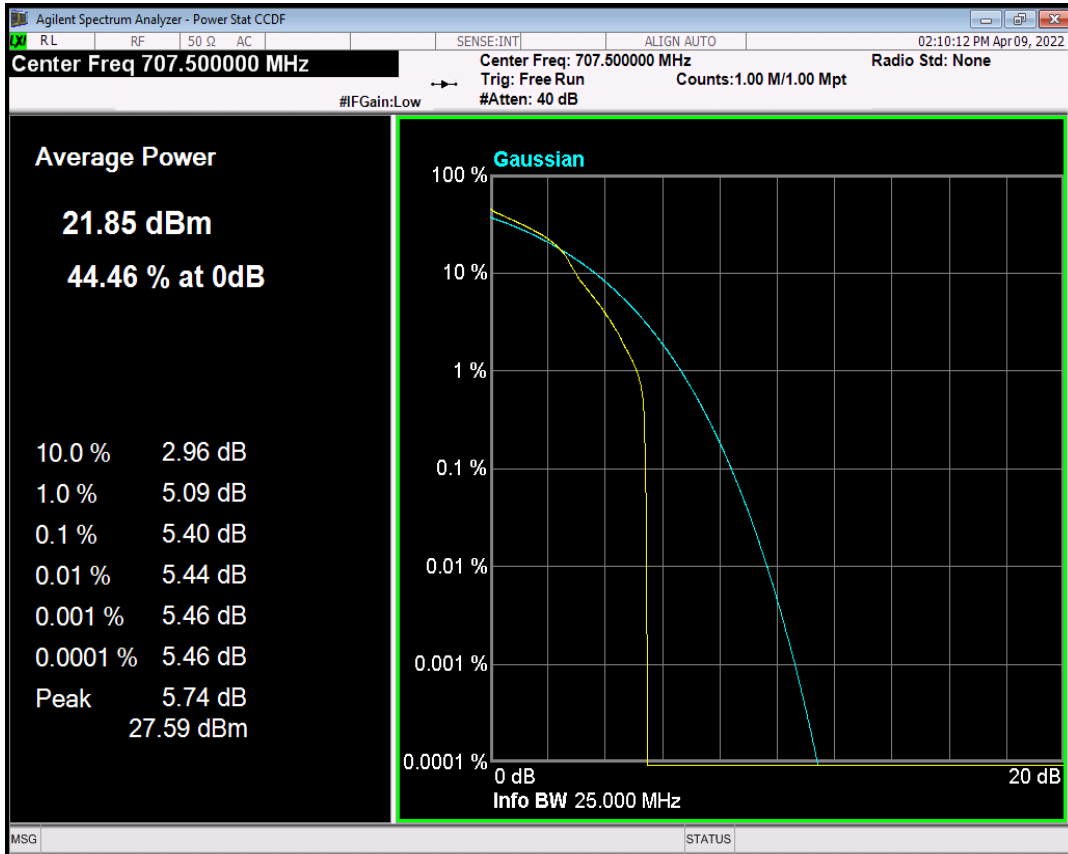




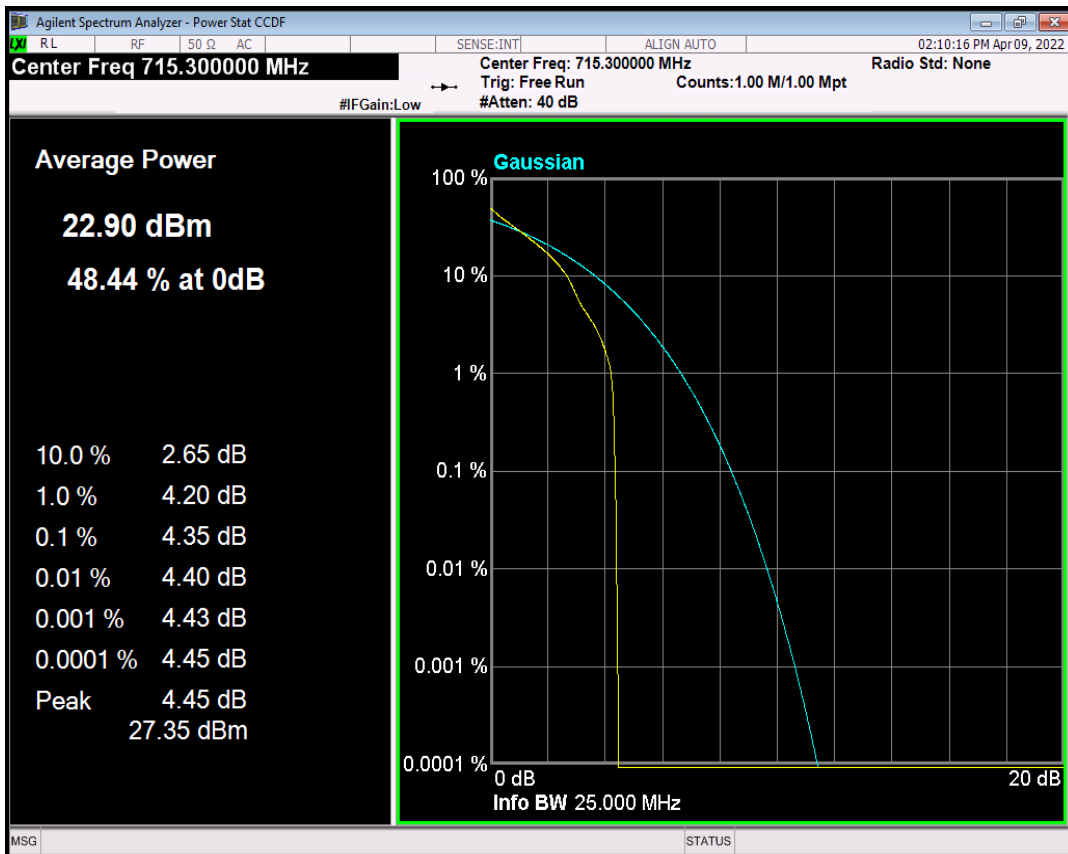
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0



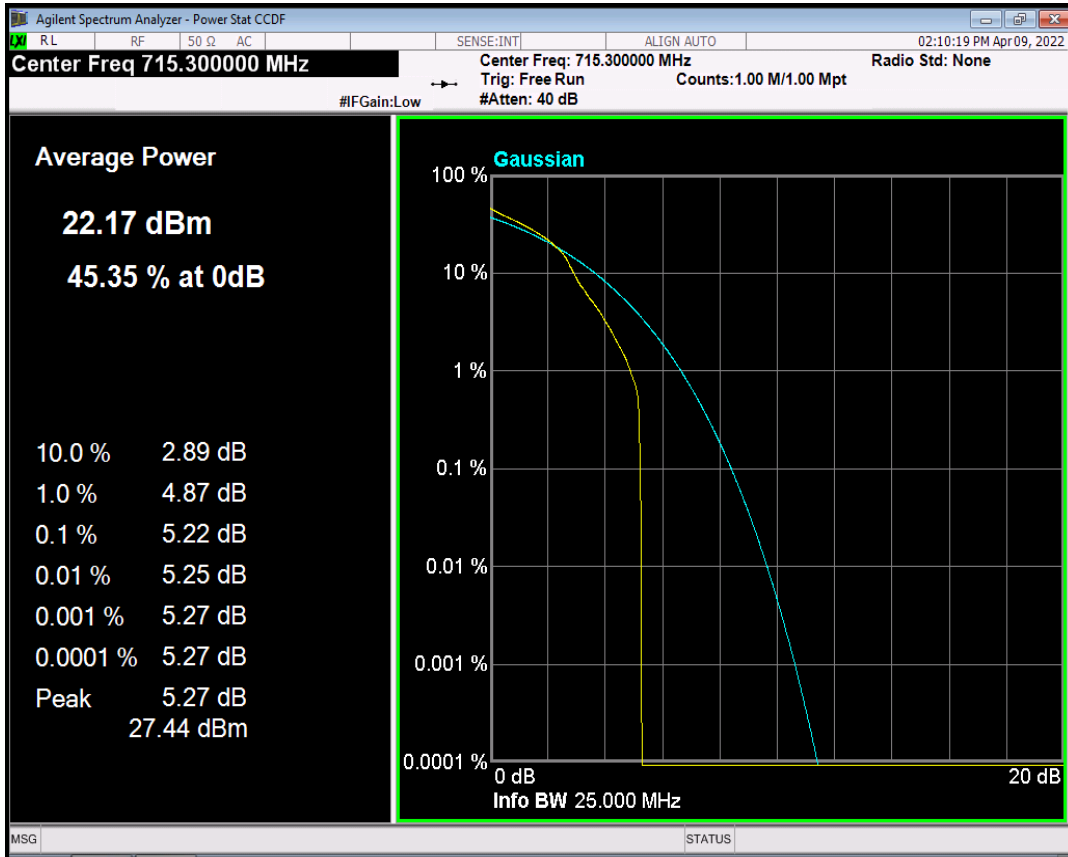
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=1 Position=#0



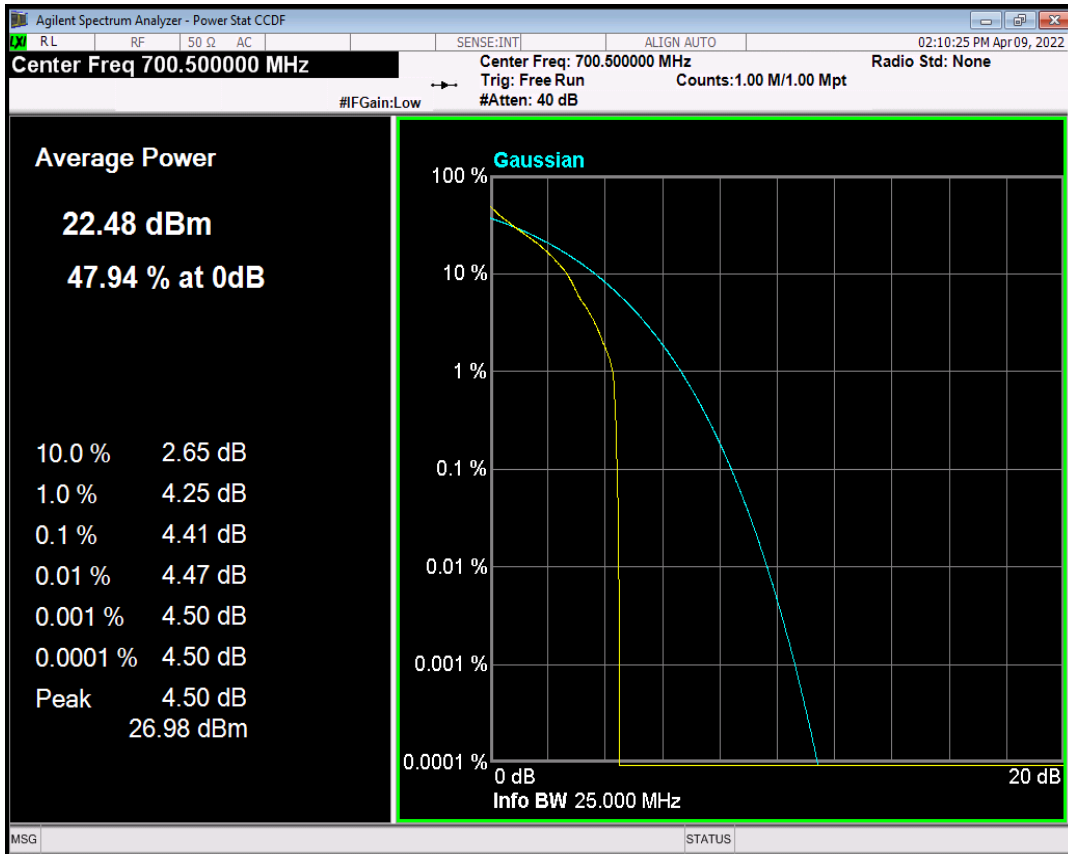
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#0



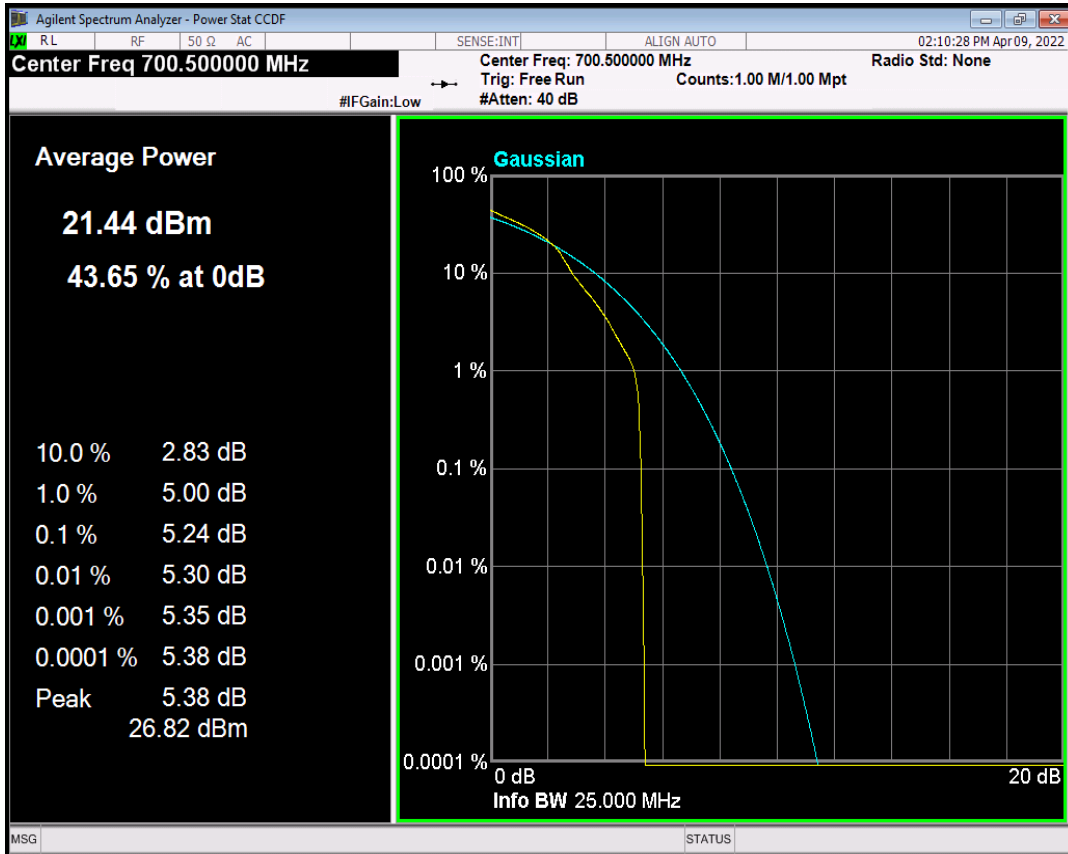
Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=1 Position=#0



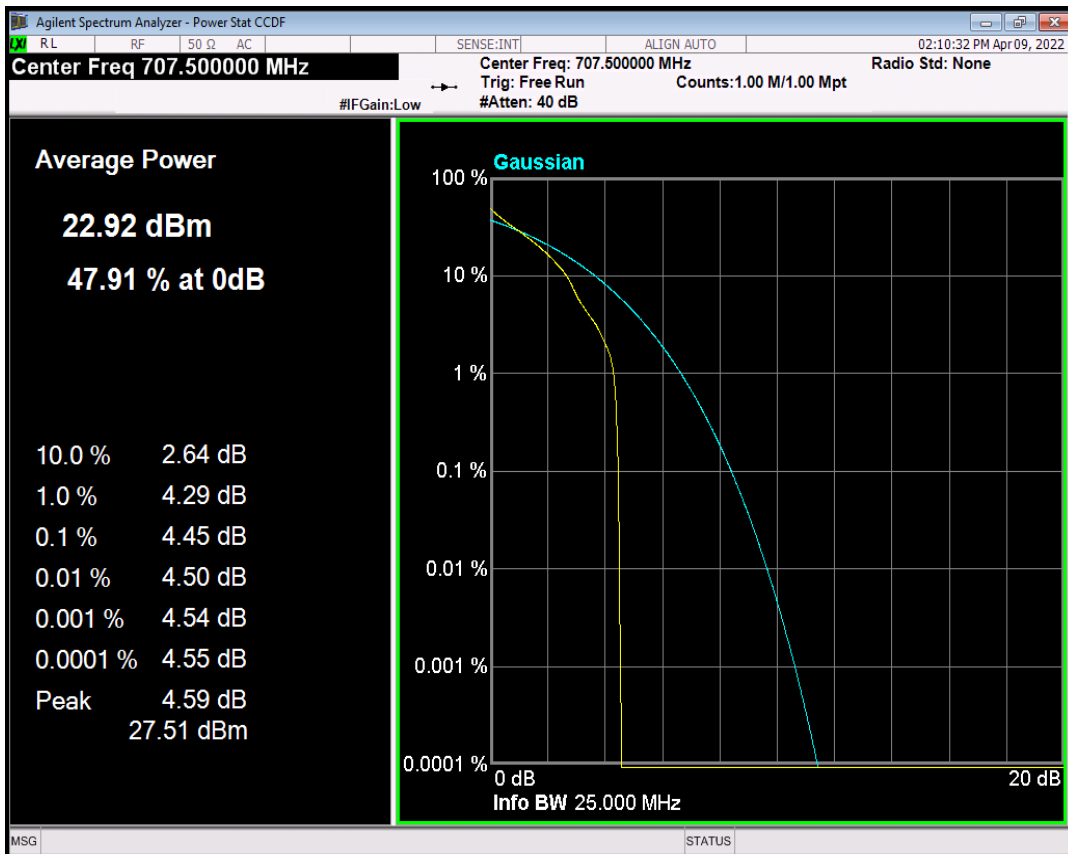
Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0



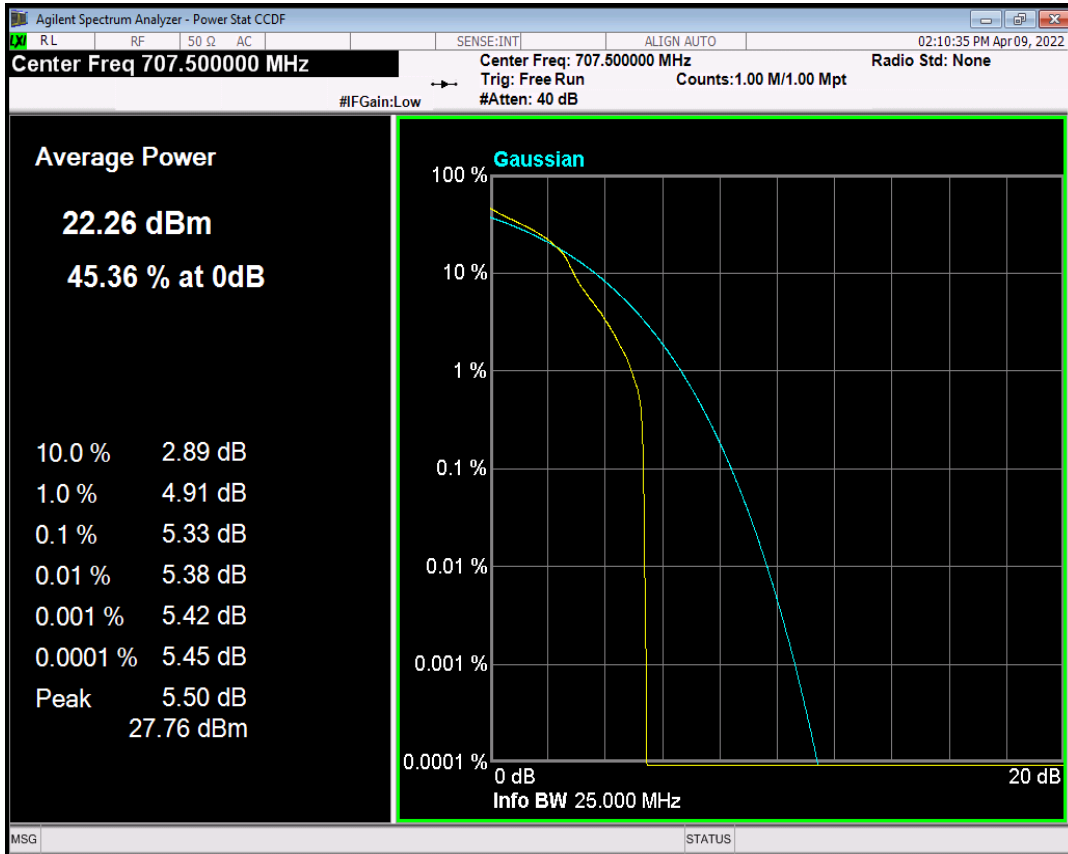
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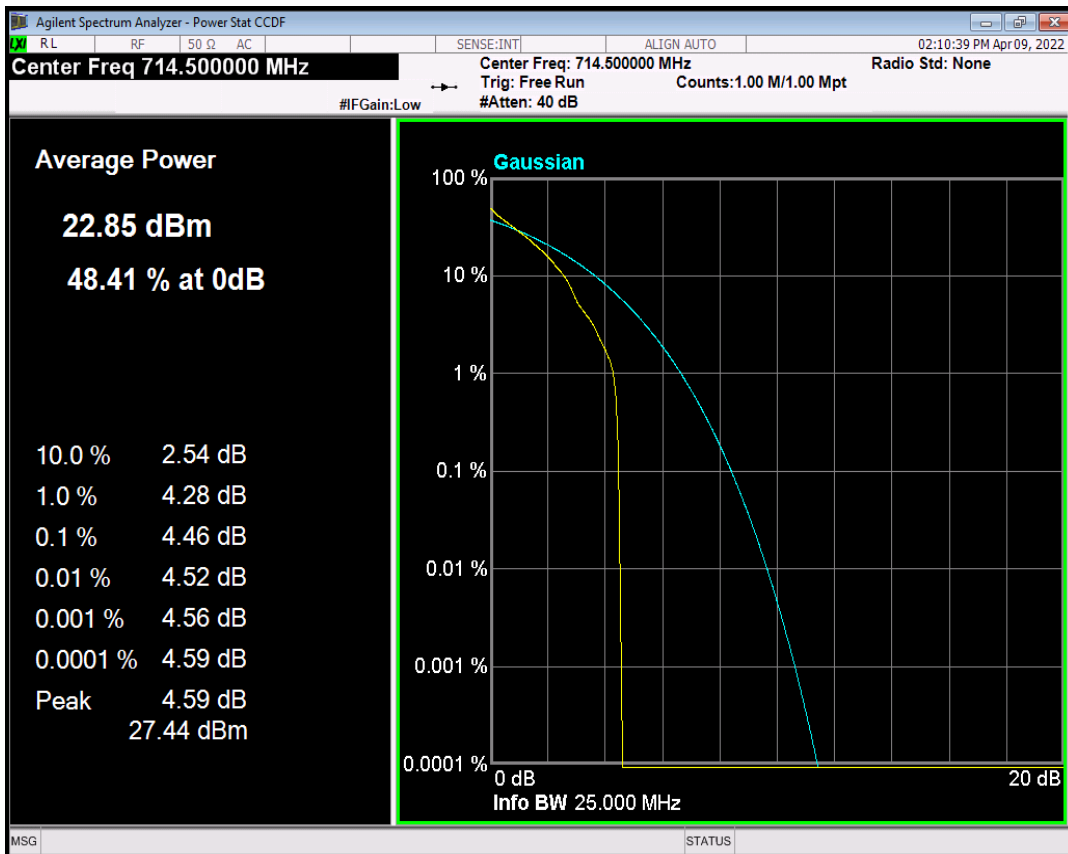
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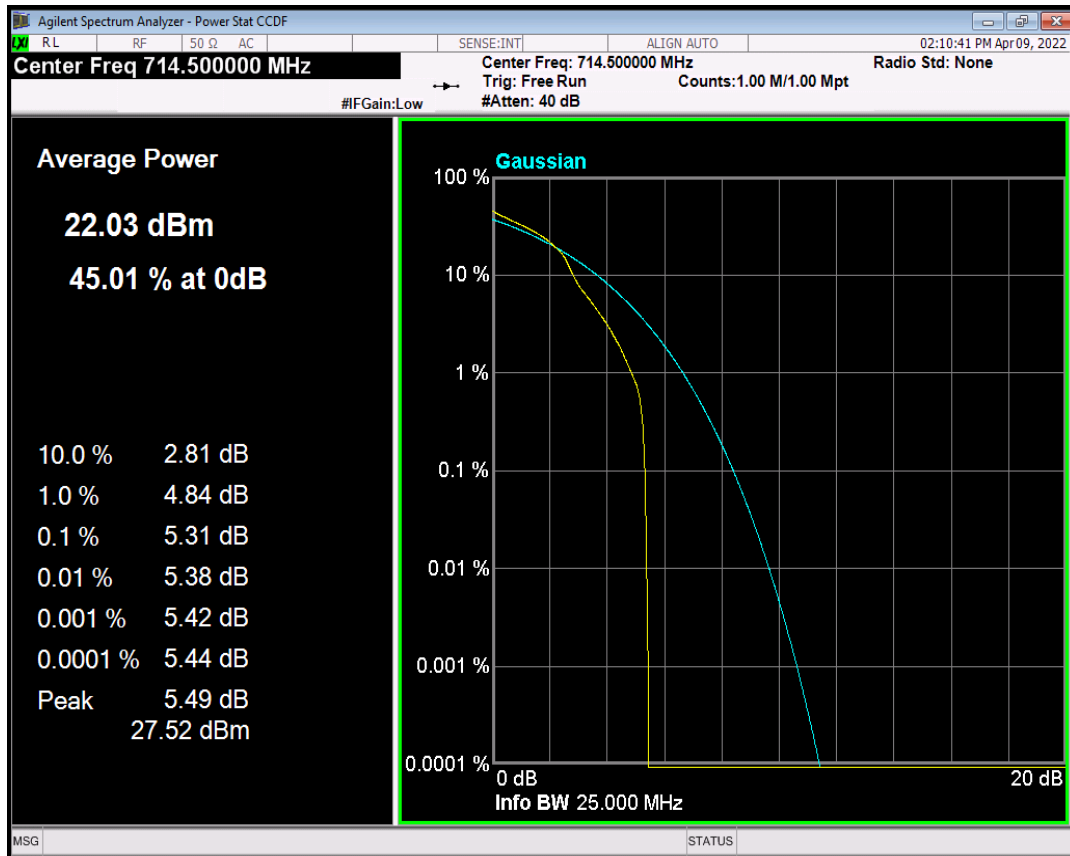
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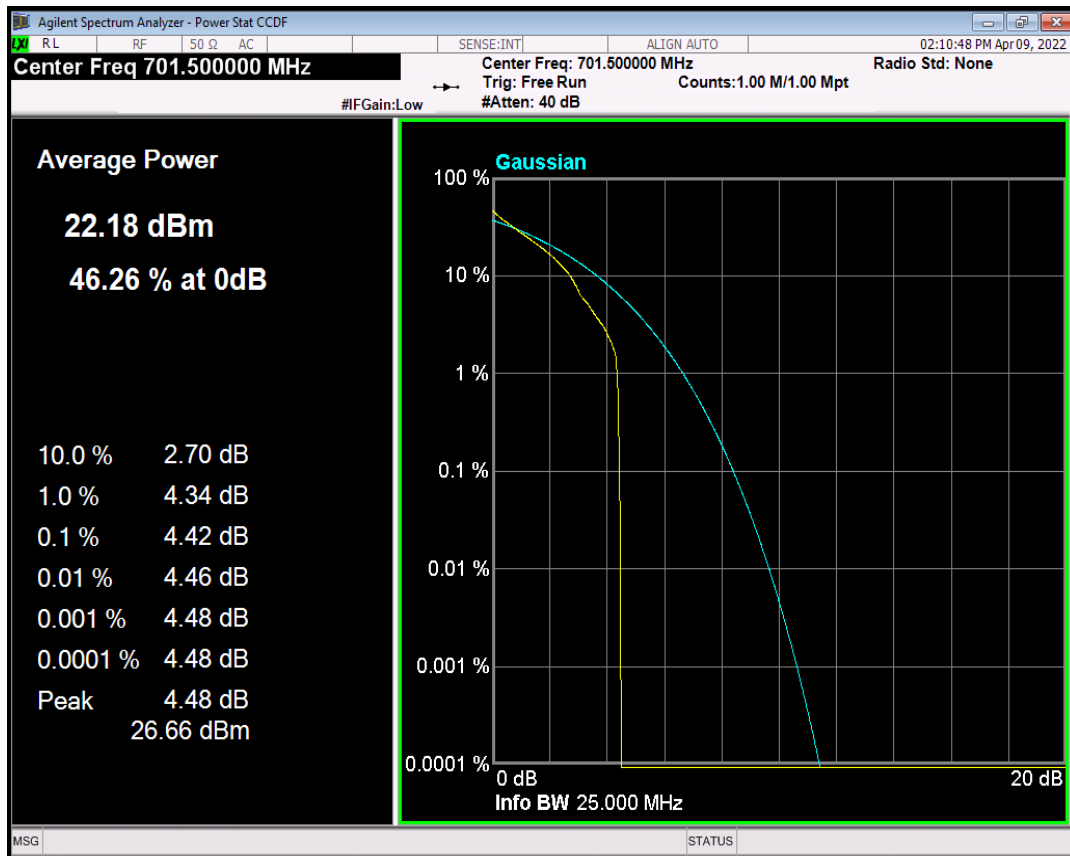
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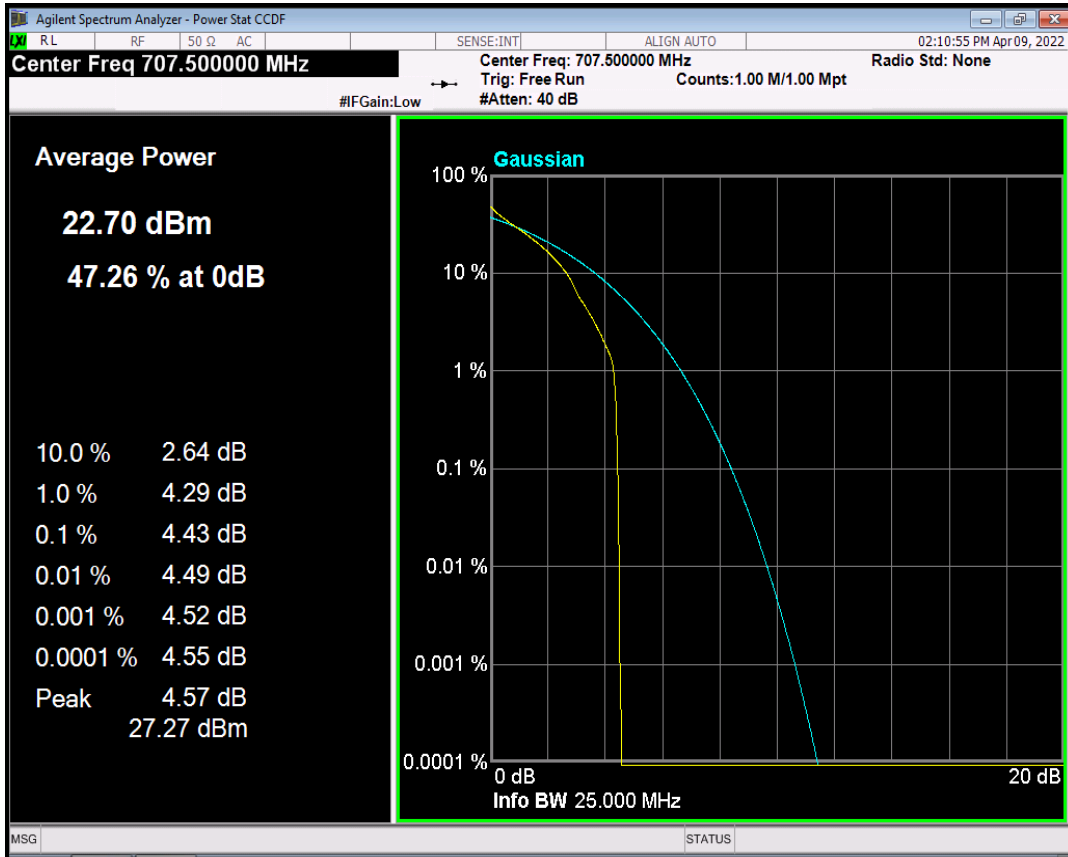
Band12 QAM16 BW=3MHz Channel=23165 RB Size=1 Position=#0



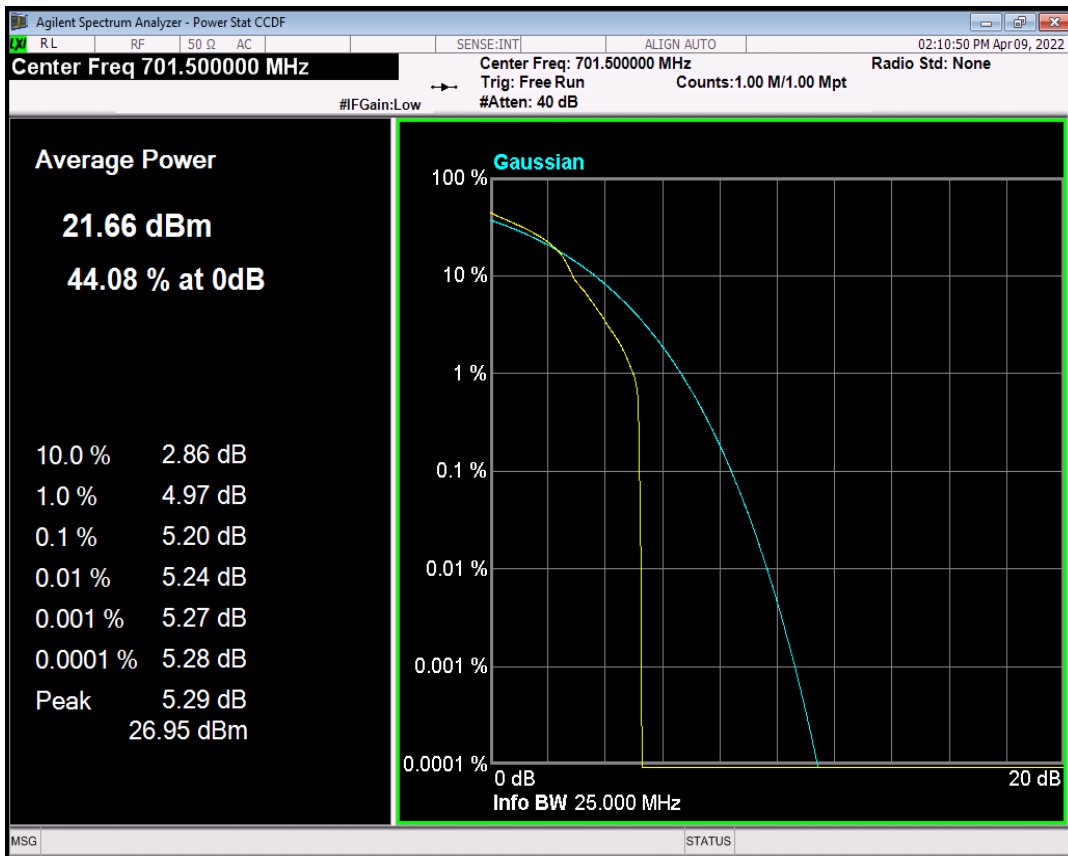
Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0



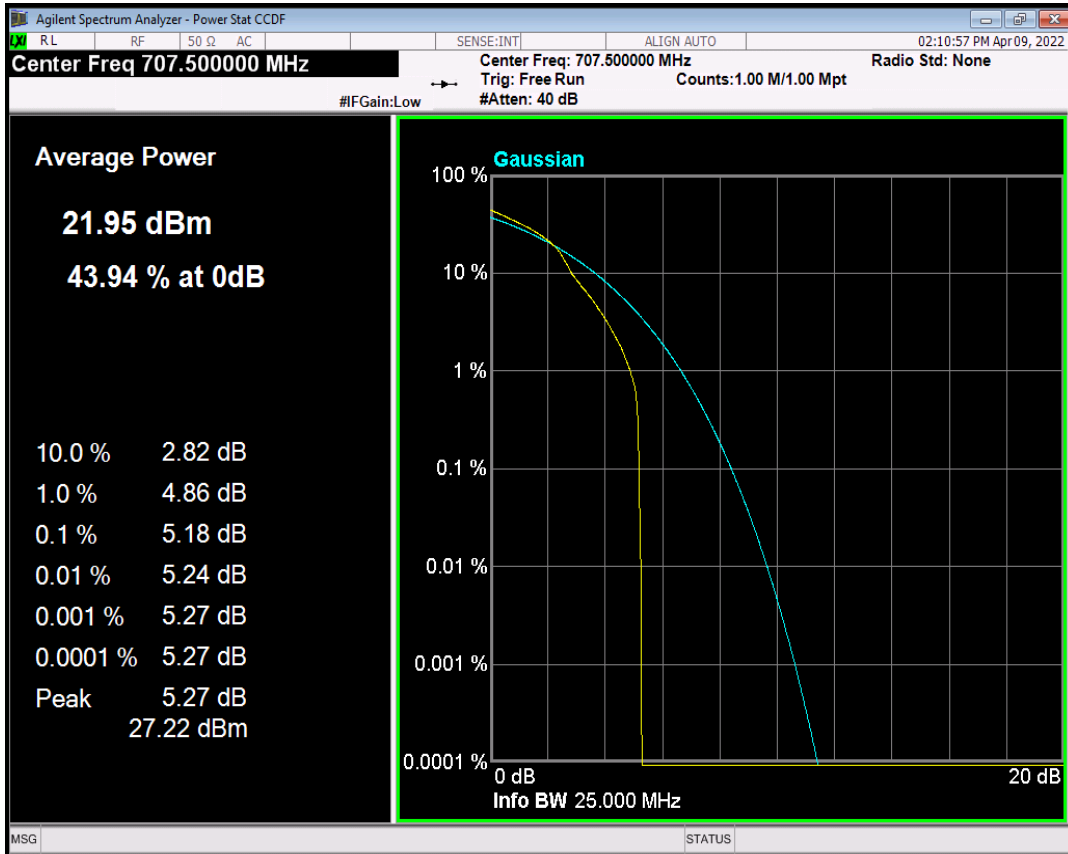
Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0



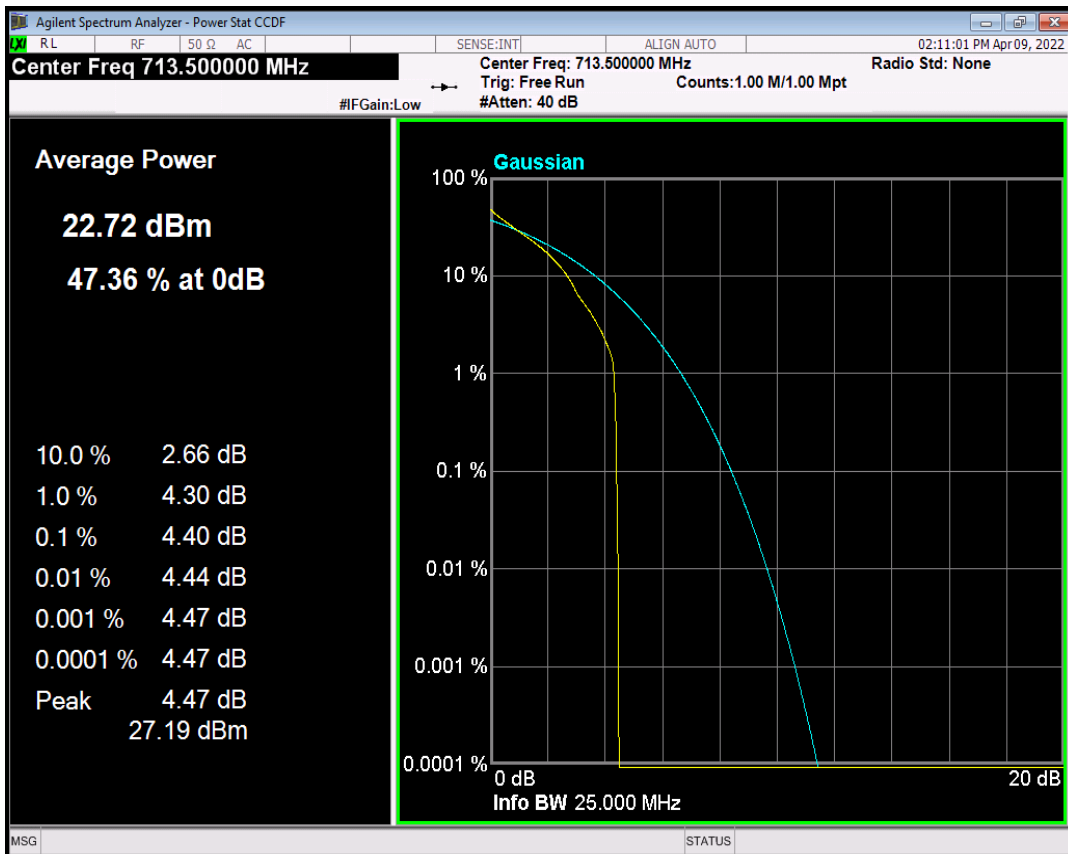
Band12 QAM16 BW=5MHz Channel=23035 RB Size=1 Position=#0



Band12 QAM16 BW=5MHz Channel=23095 RB Size=1 Position=#0

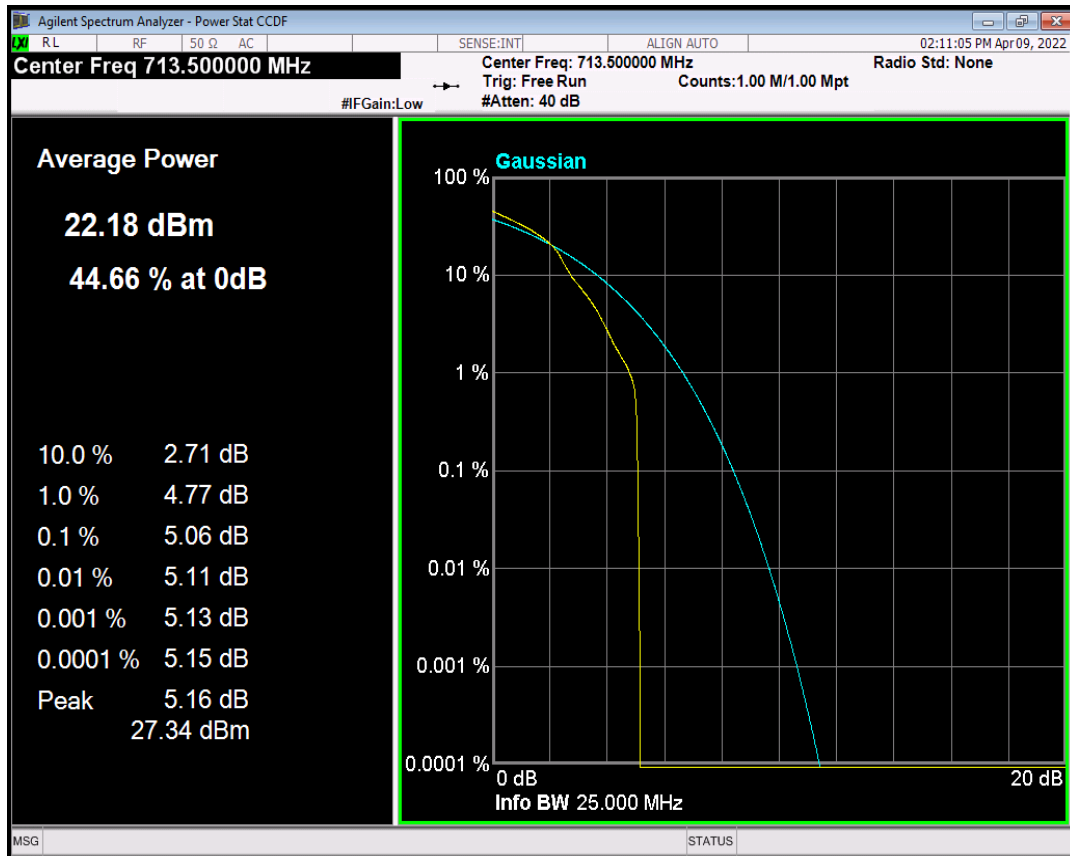


Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0

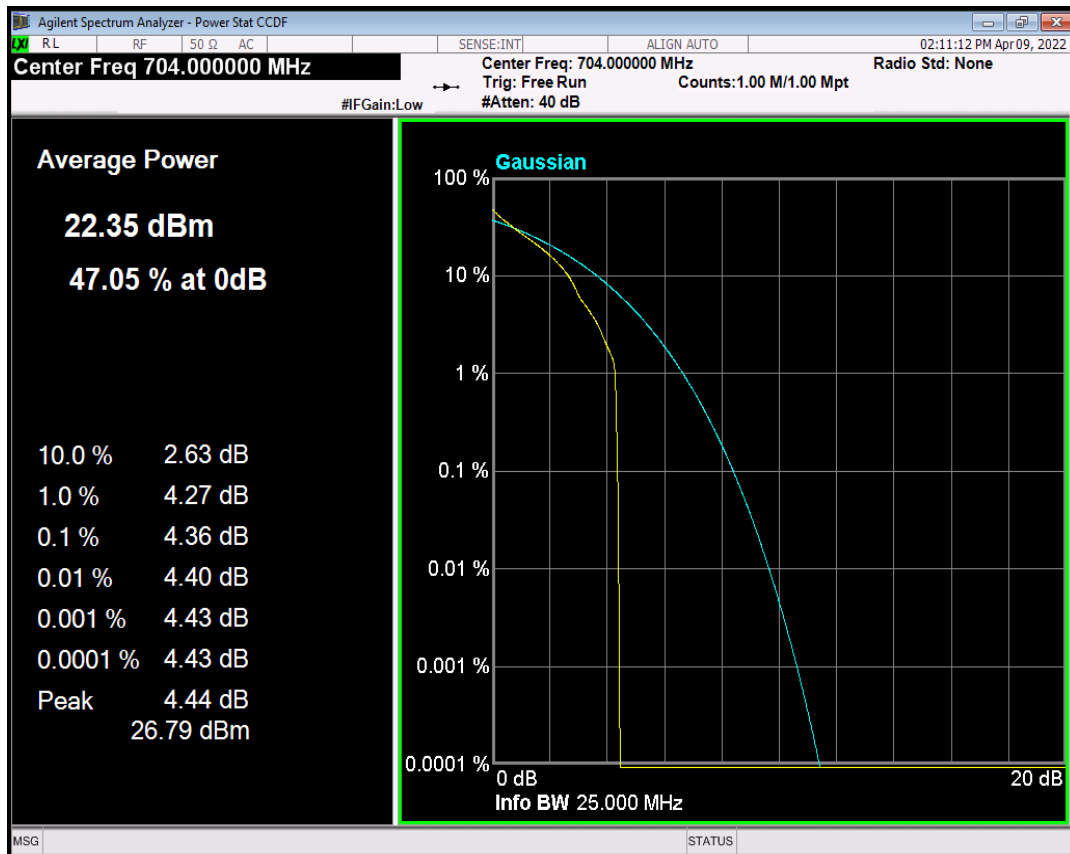


Band12 QAM16 BW=5MHz Channel=23155 RB Size=1 Position=#0

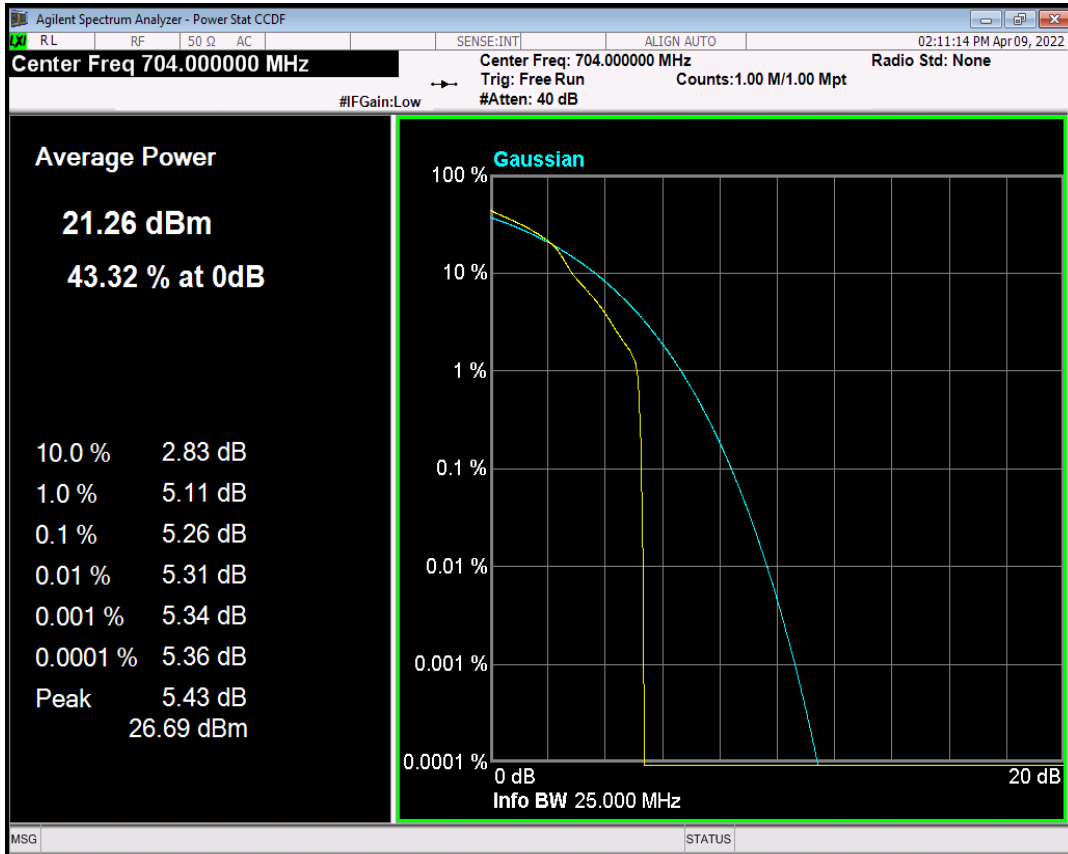




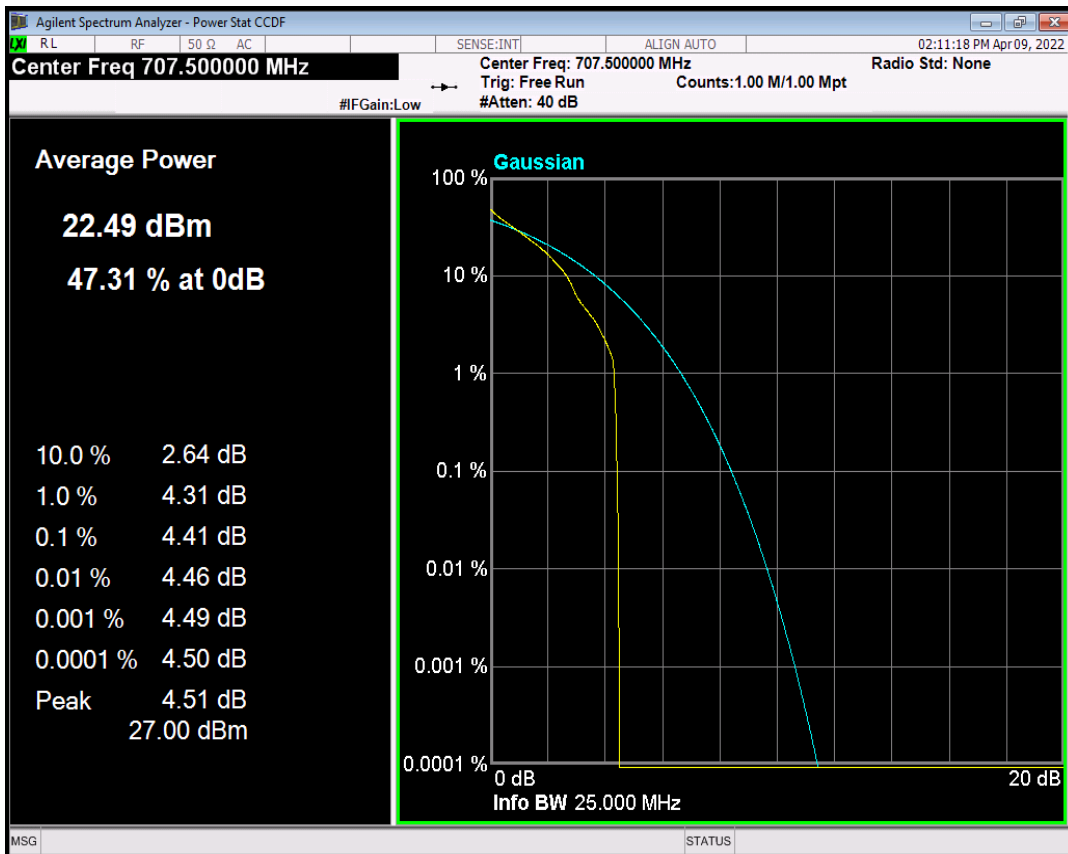
Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0



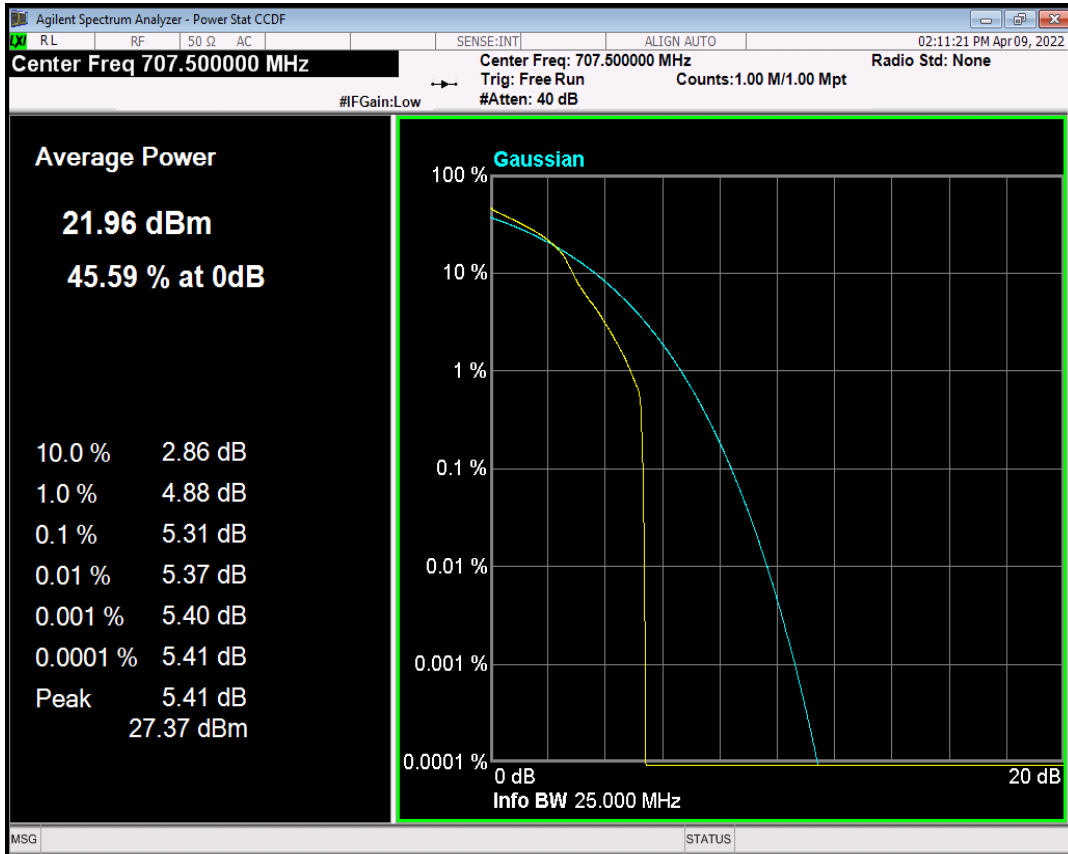
Band12 QAM16 BW=10MHz Channel=23060 RB Size=1 Position=#0



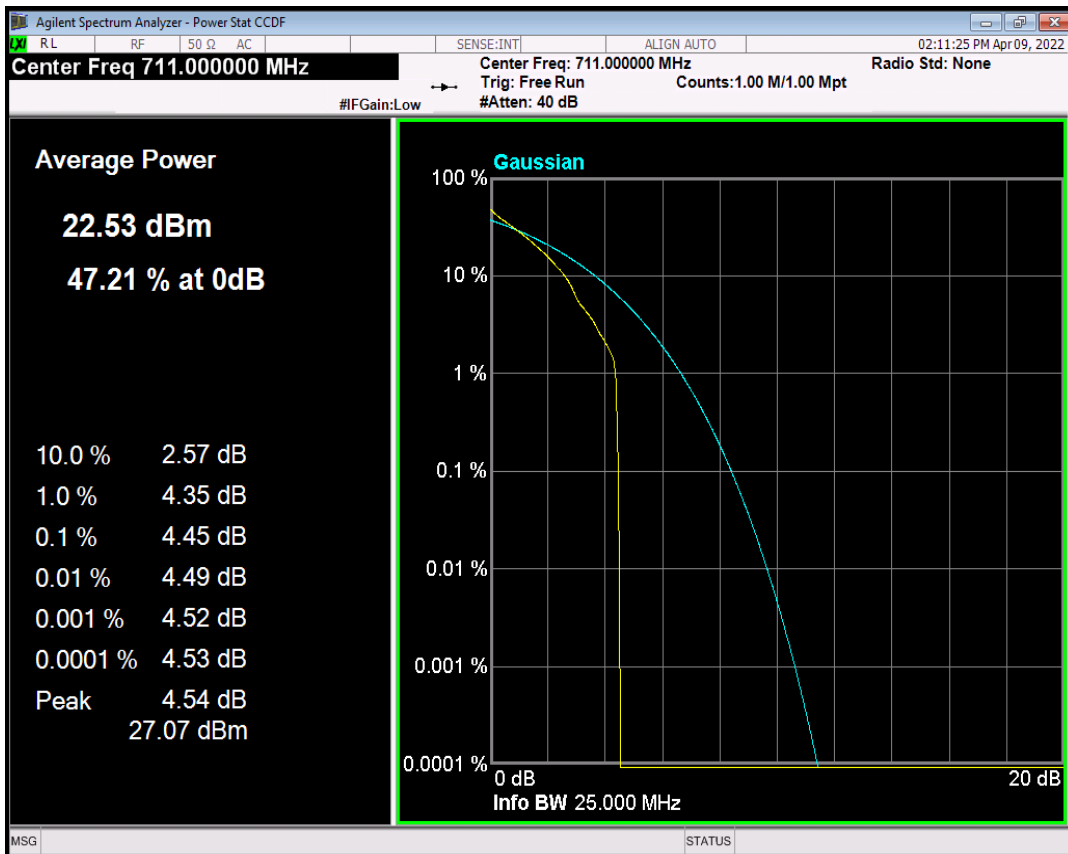
Band12 QPSK BW=10MHz Channel=23095 RB Size=1 Position=#0



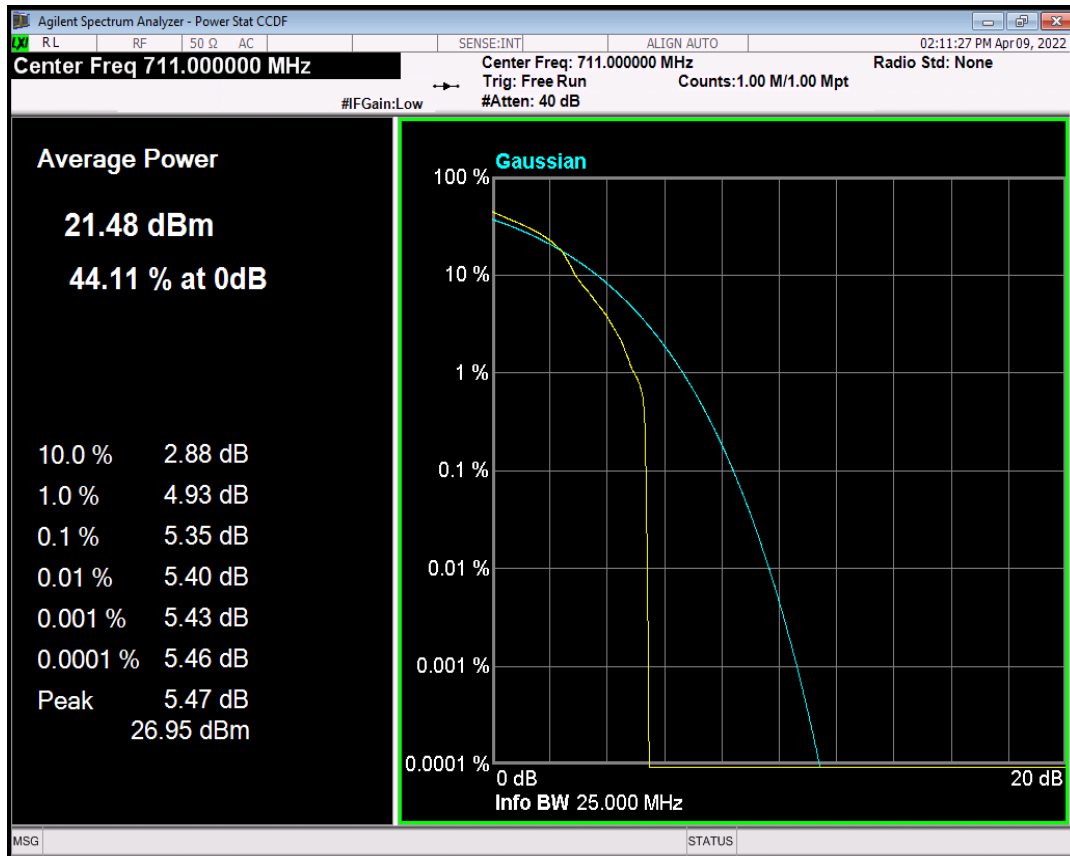
Band12 QAM16 BW=10MHz Channel=23095 RB Size=1 Position=#0



Band12 QPSK BW=10MHz Channel=23130 RB Size=1 Position=#0



Band12 QAM16 BW=10MHz Channel=23130 RB Size=1 Position=#0

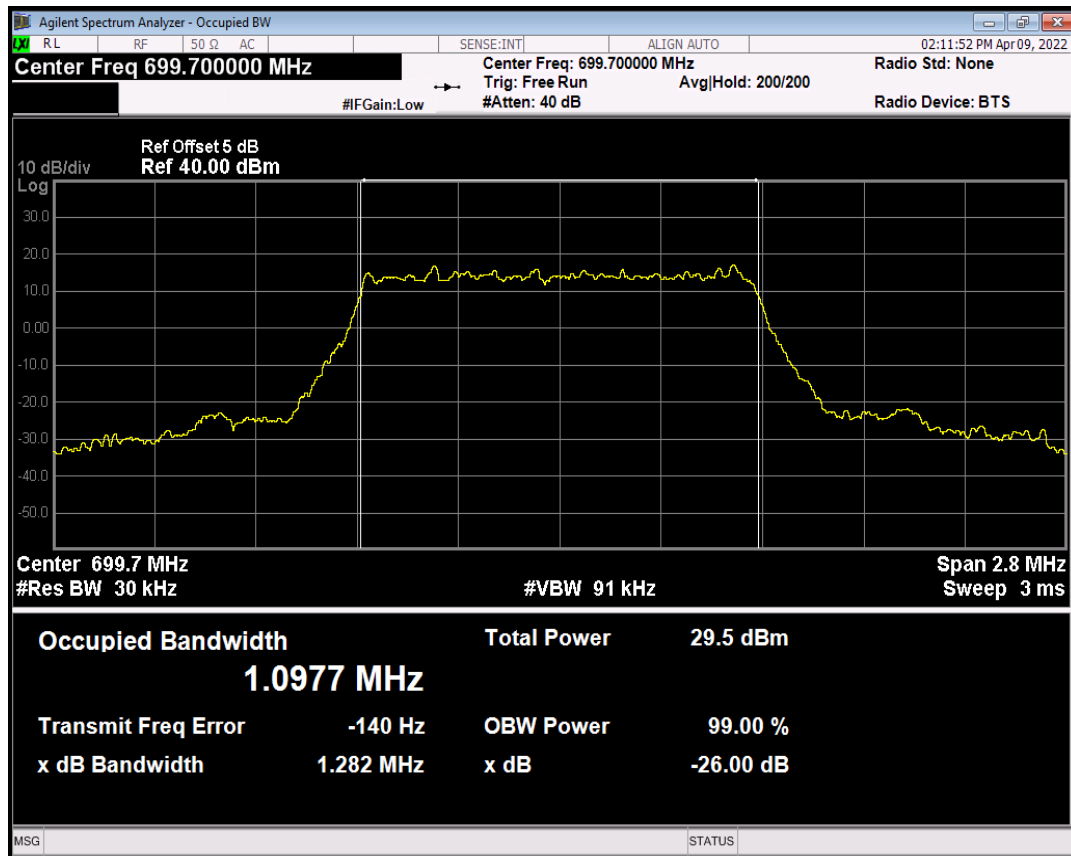


#### Appendix 4. Occupied bandwidth

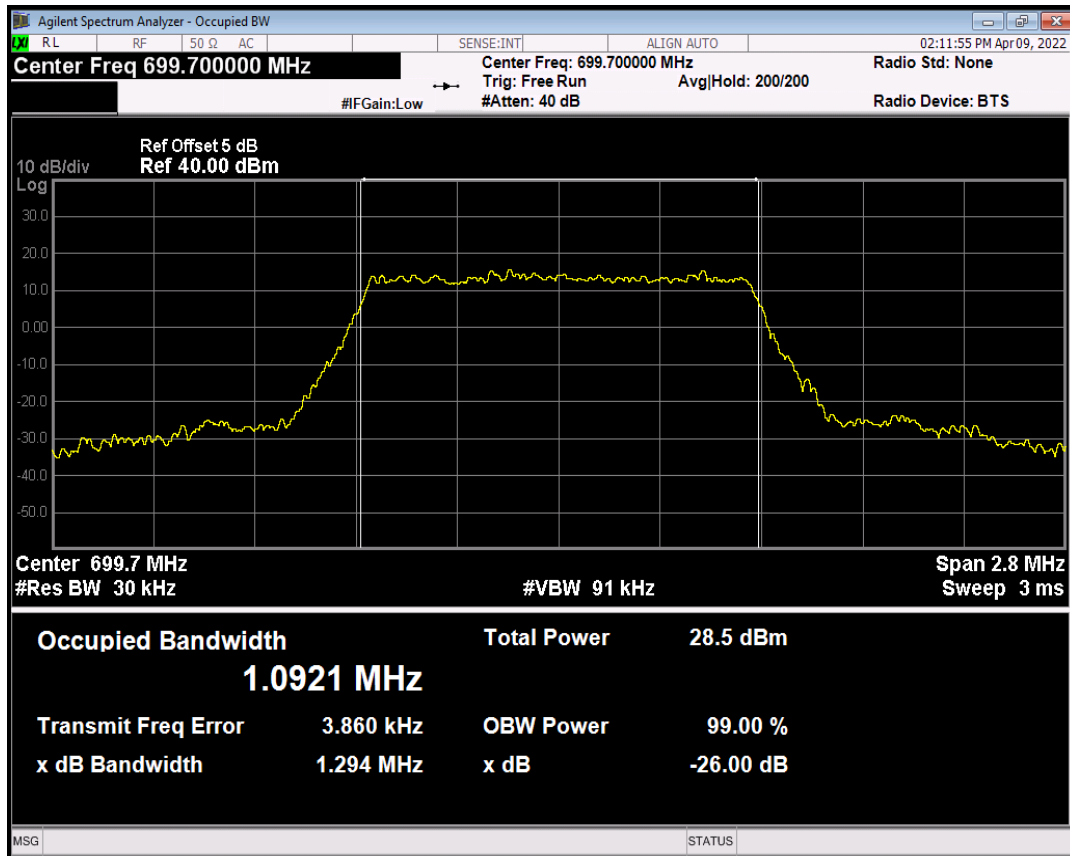
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23017	6	#0	QPSK	1.098	1.282	PASS
Band12	1.4	23017	6	#0	QAM16	1.092	1.294	PASS
Band12	1.4	23095	6	#0	QPSK	1.091	1.283	PASS
Band12	1.4	23095	6	#0	QAM16	1.102	1.281	PASS
Band12	1.4	23173	6	#0	QPSK	1.097	1.301	PASS
Band12	1.4	23173	6	#0	QAM16	1.097	1.270	PASS
Band12	3	23025	15	#0	QPSK	2.704	2.934	PASS
Band12	3	23025	15	#0	QAM16	2.703	2.988	PASS
Band12	3	23095	15	#0	QPSK	2.698	2.943	PASS
Band12	3	23095	15	#0	QAM16	2.699	2.963	PASS
Band12	3	23165	15	#0	QPSK	2.706	2.985	PASS
Band12	3	23165	15	#0	QAM16	2.705	2.989	PASS
Band12	5	23035	25	#0	QPSK	4.517	4.923	PASS
Band12	5	23035	25	#0	QAM16	4.514	4.949	PASS
Band12	5	23095	25	#0	QPSK	4.503	4.906	PASS
Band12	5	23095	25	#0	QAM16	4.491	4.910	PASS
Band12	5	23155	25	#0	QPSK	4.520	4.990	PASS
Band12	5	23155	25	#0	QAM16	4.539	4.981	PASS

Band12	10	23060	50	#0	QPSK	9.027	9.955	PASS
Band12	10	23060	50	#0	QAM16	8.995	9.791	PASS
Band12	10	23095	50	#0	QPSK	8.906	9.785	PASS
Band12	10	23095	50	#0	QAM16	8.904	9.597	PASS
Band12	10	23130	50	#0	QPSK	8.953	9.747	PASS
Band12	10	23130	50	#0	QAM16	8.964	9.742	PASS

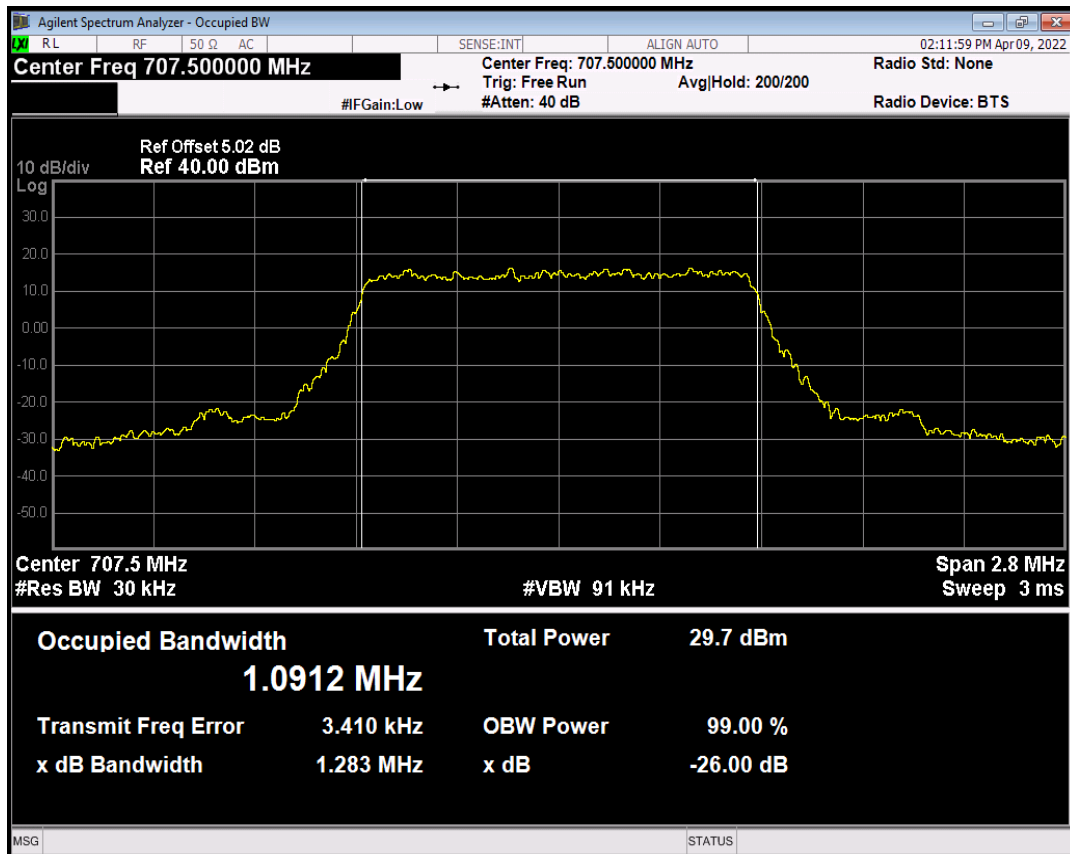
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



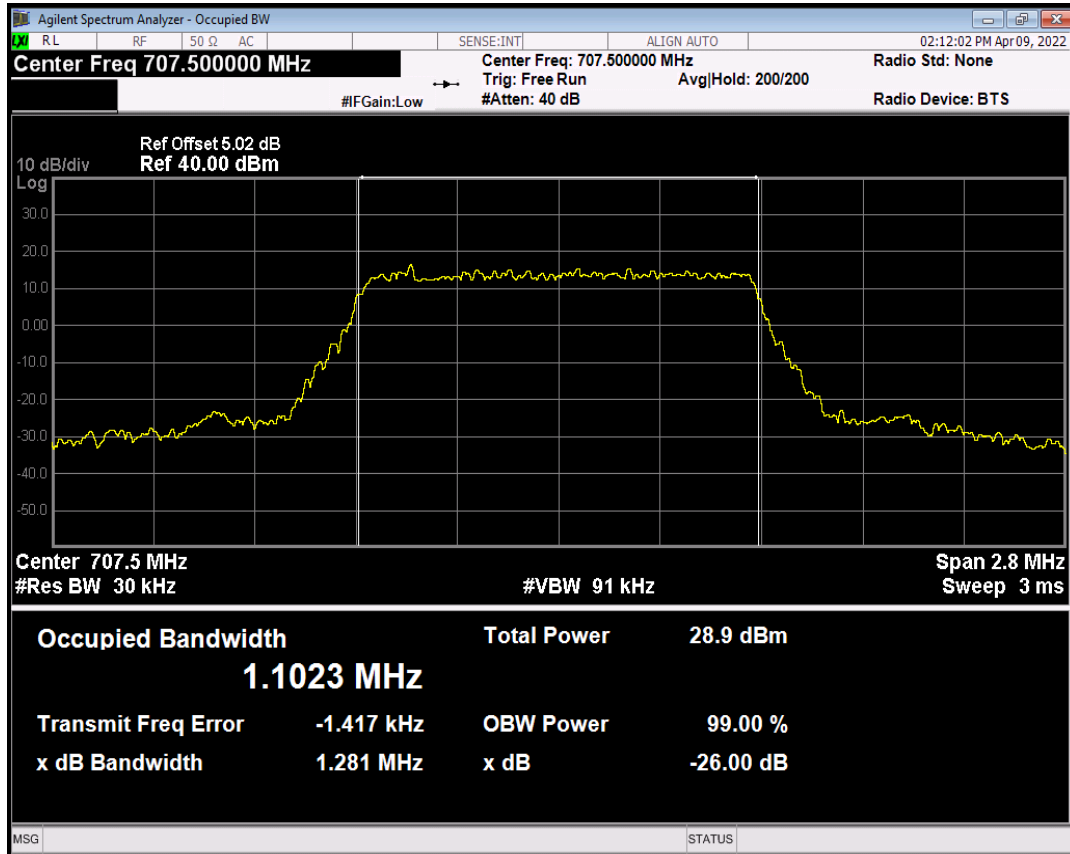
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



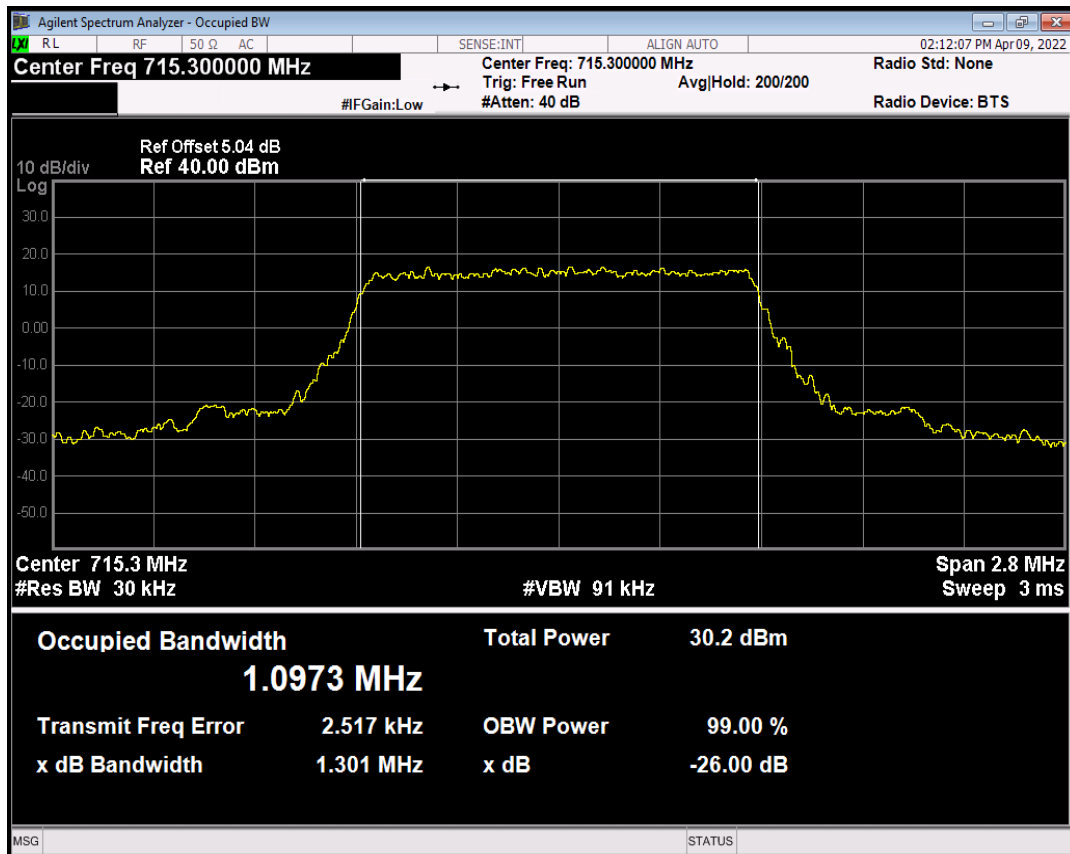
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



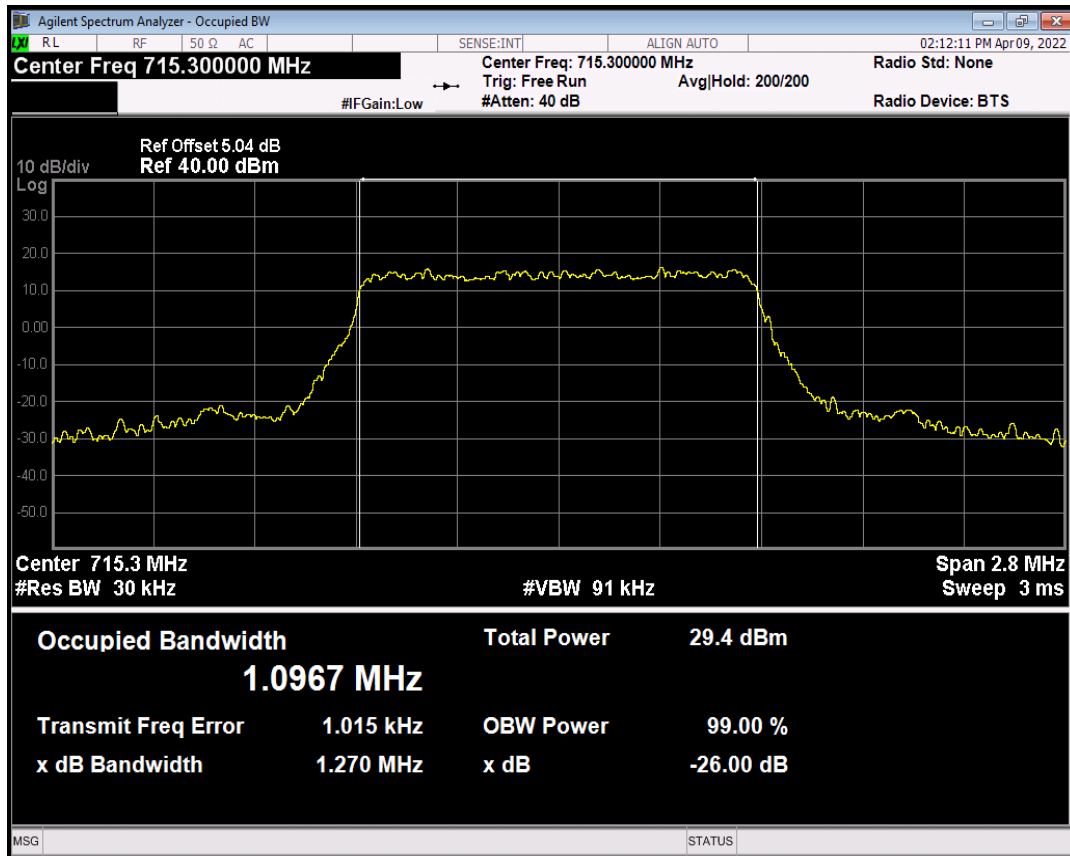
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0



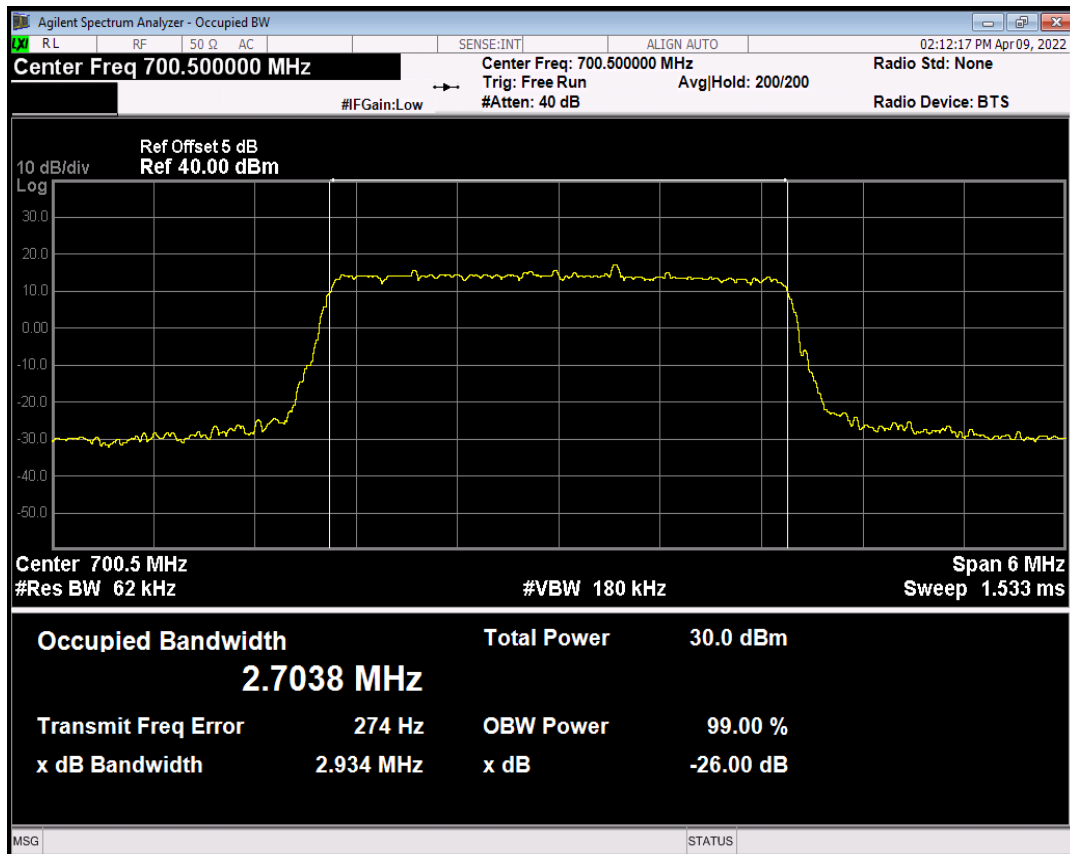
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

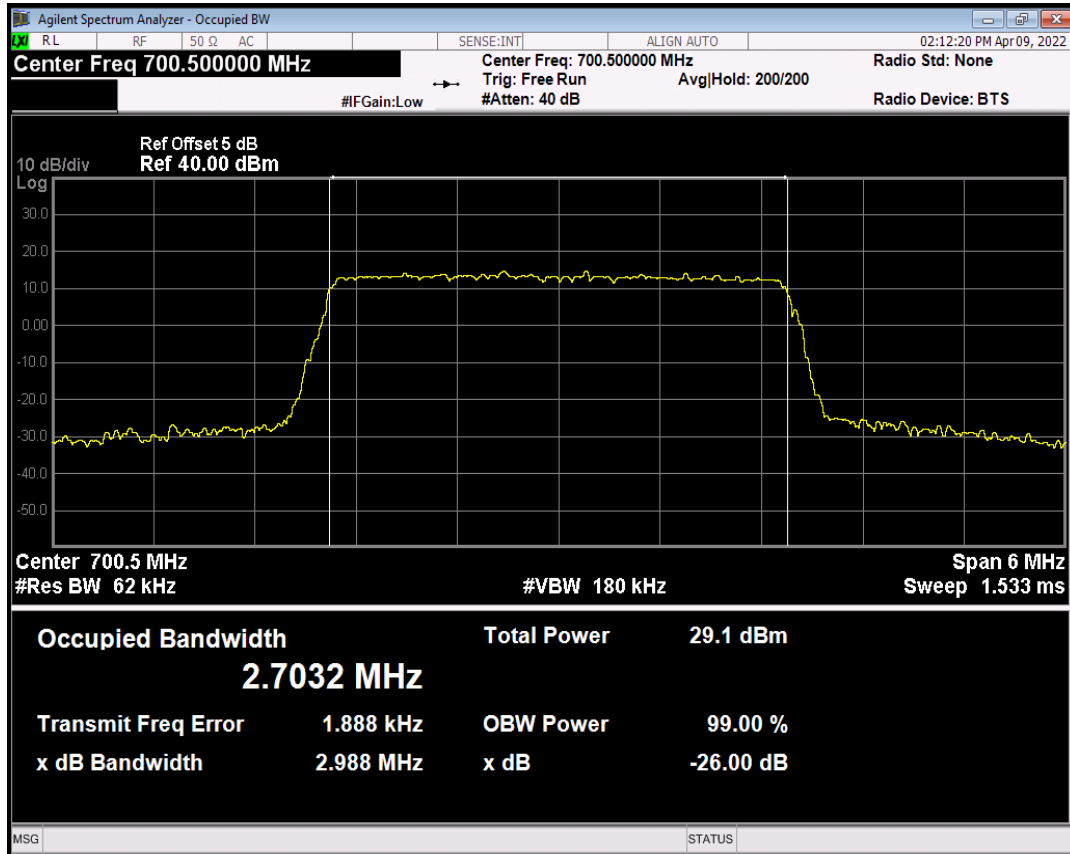


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

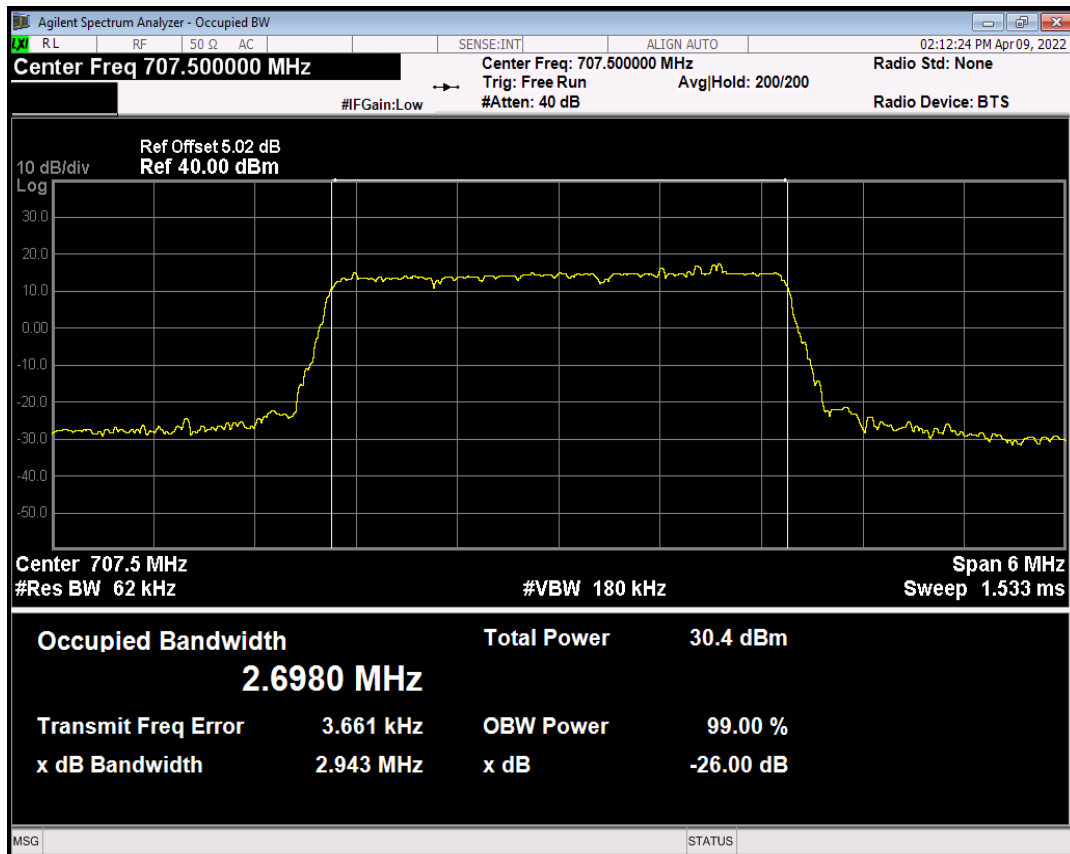


Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

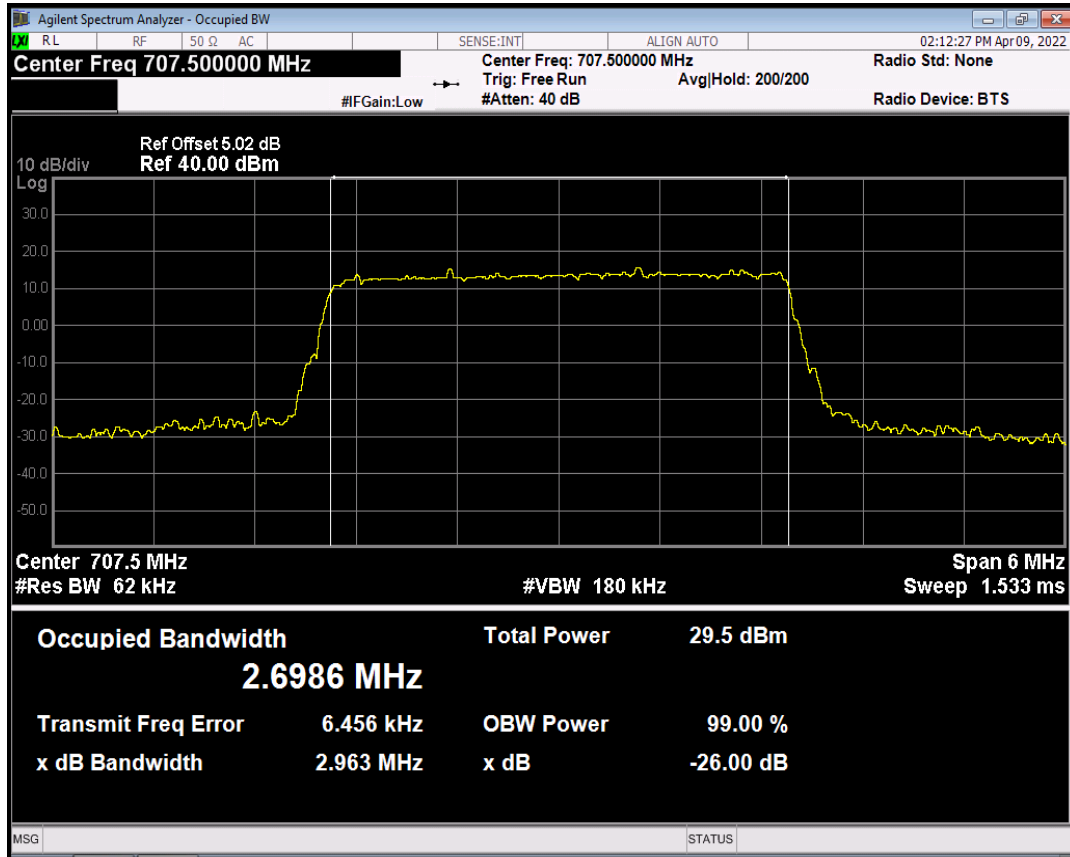




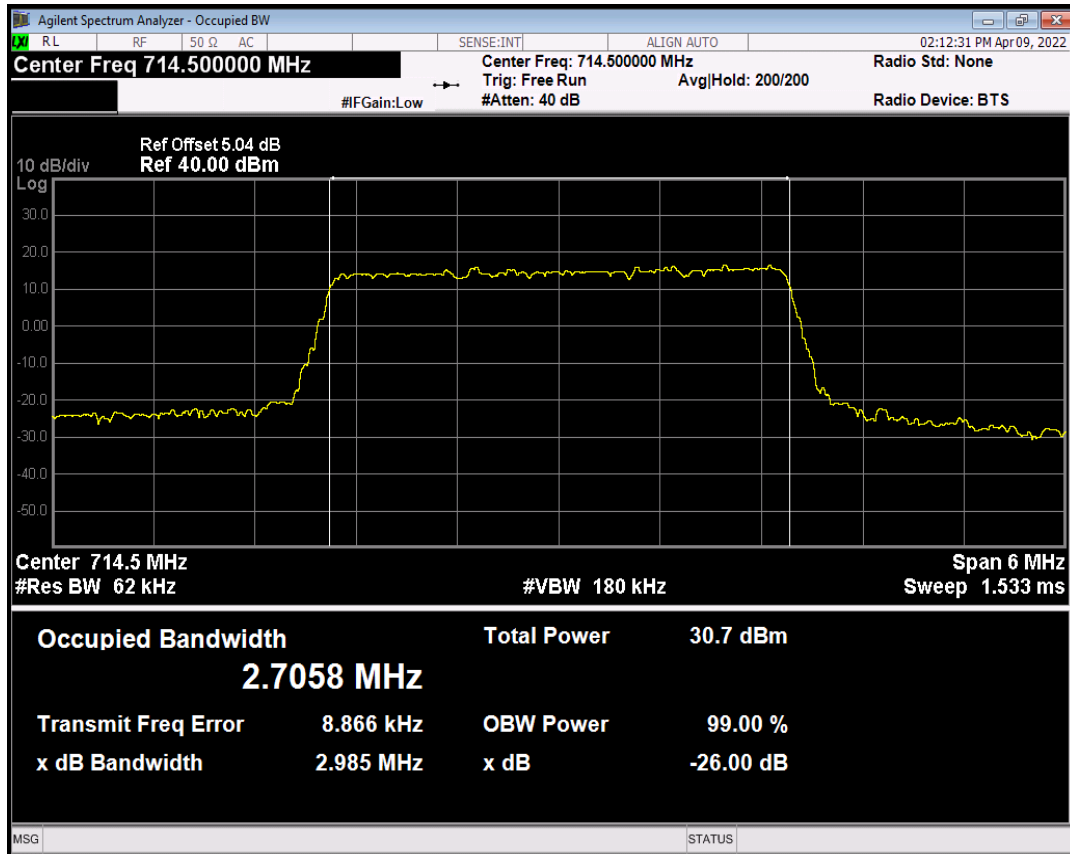
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



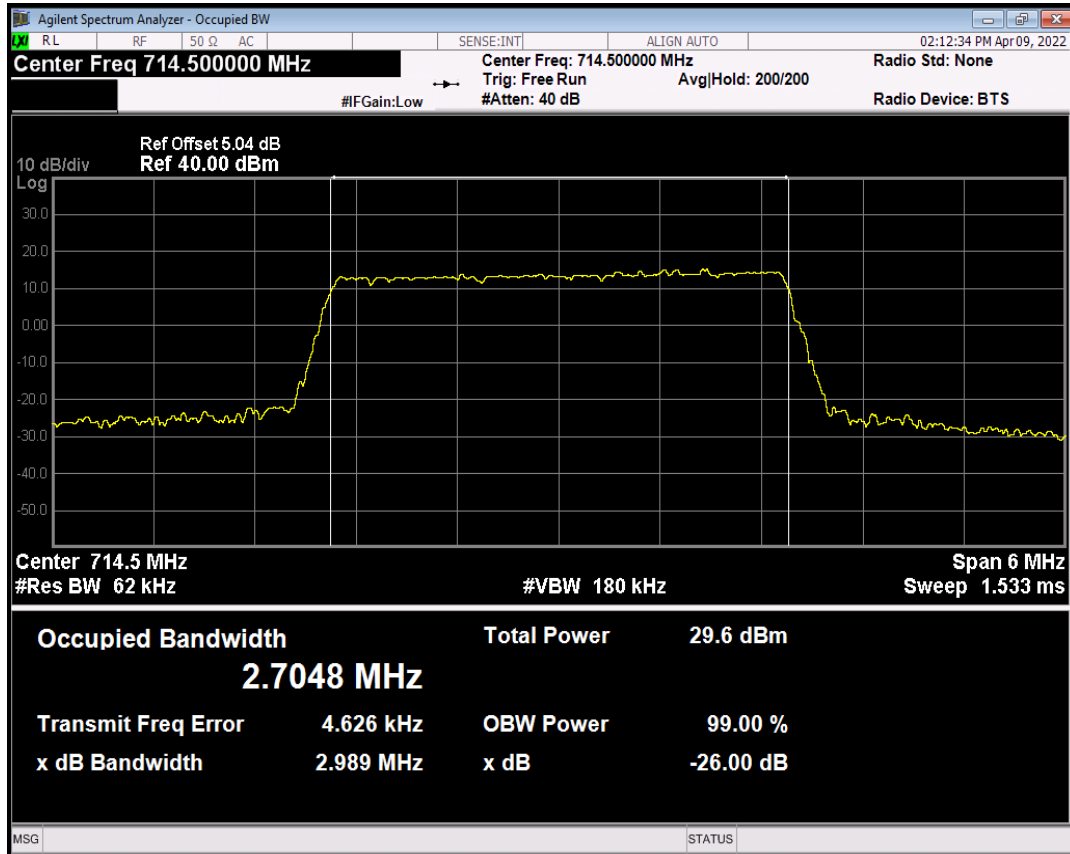
Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0



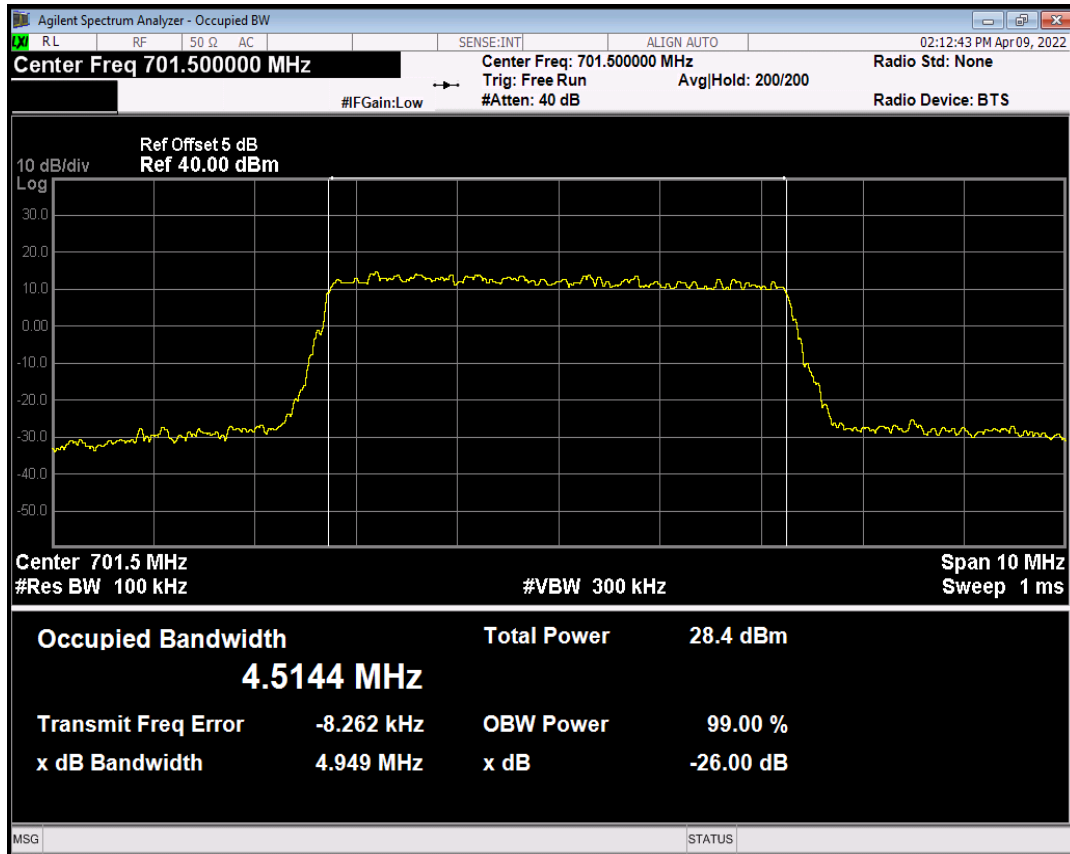
Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



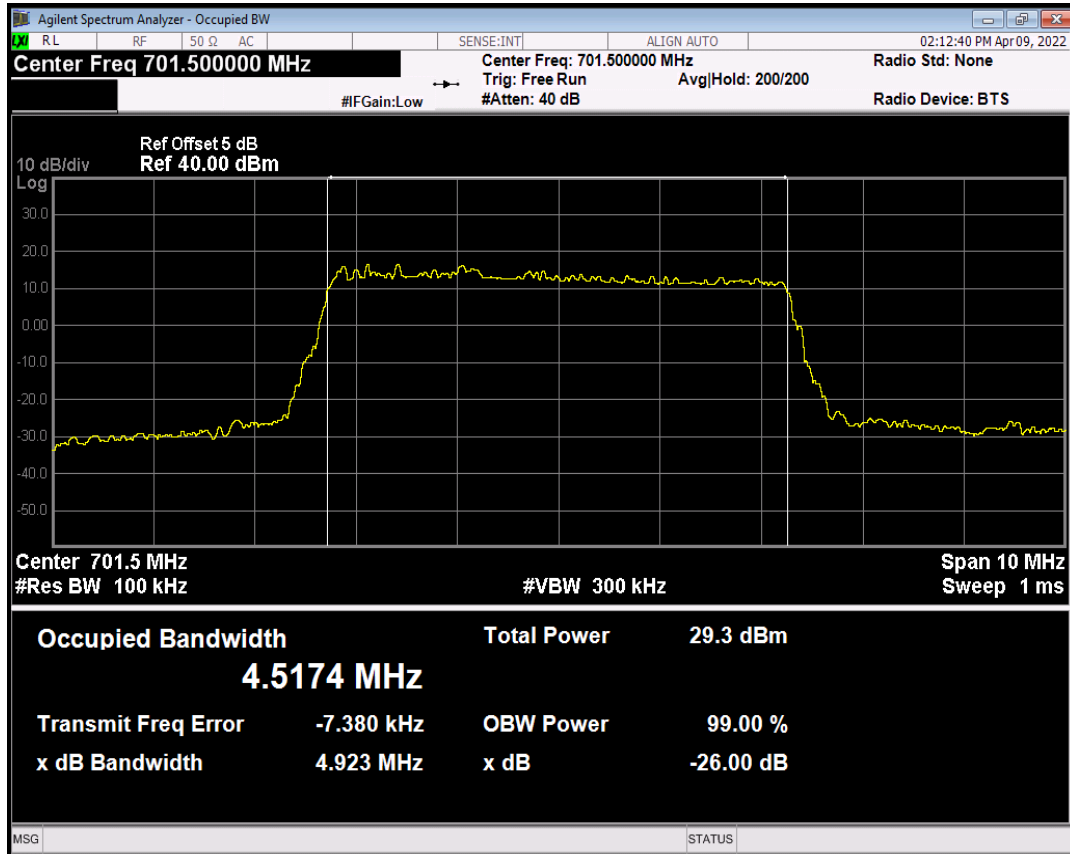
Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



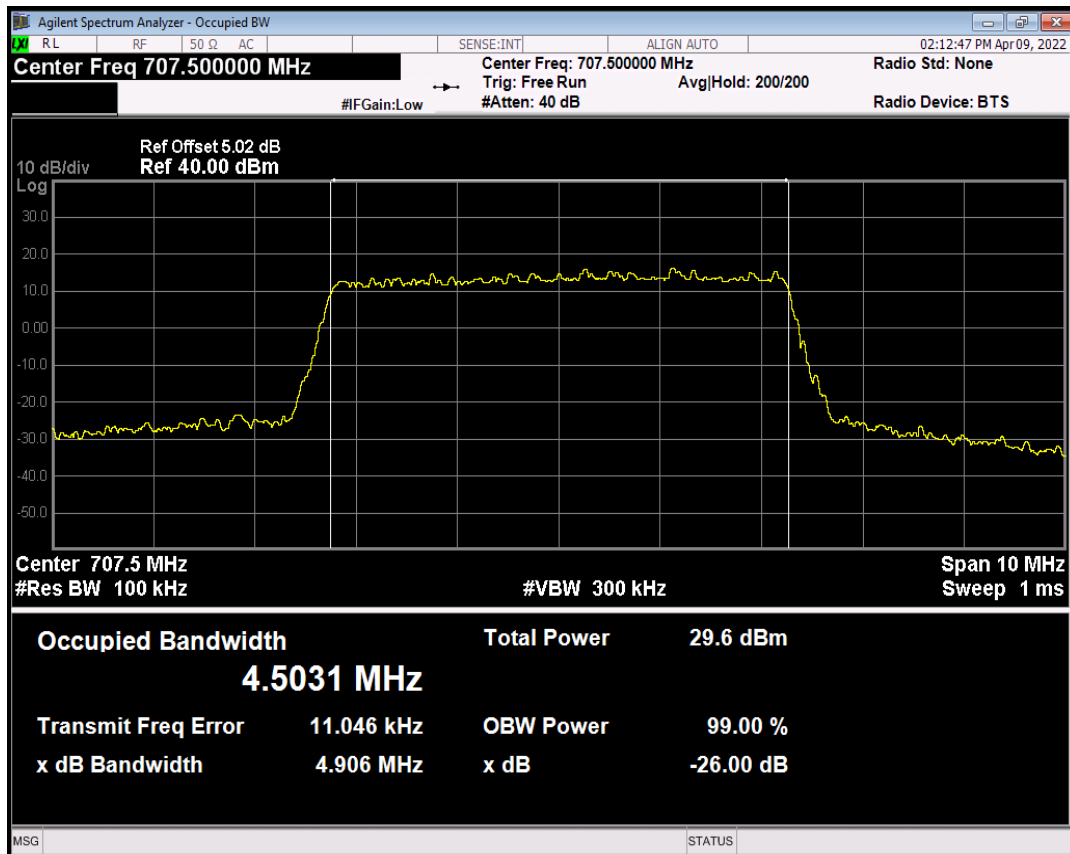
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



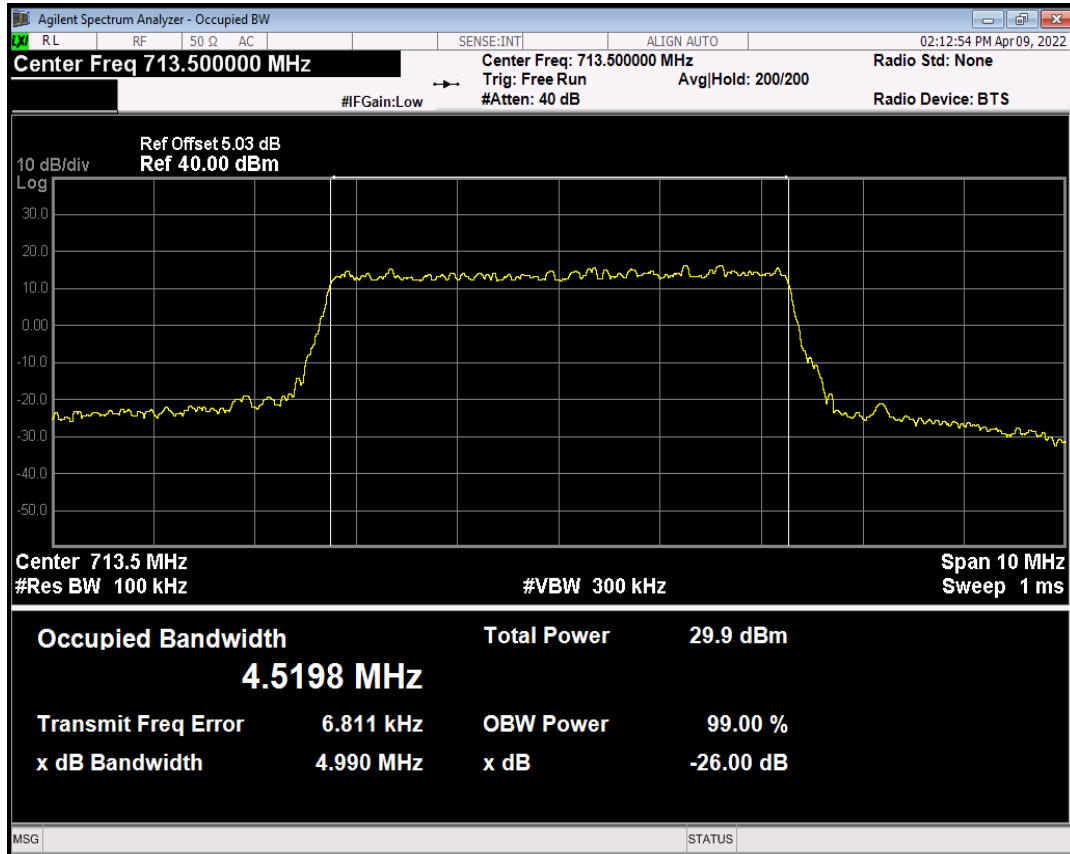
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



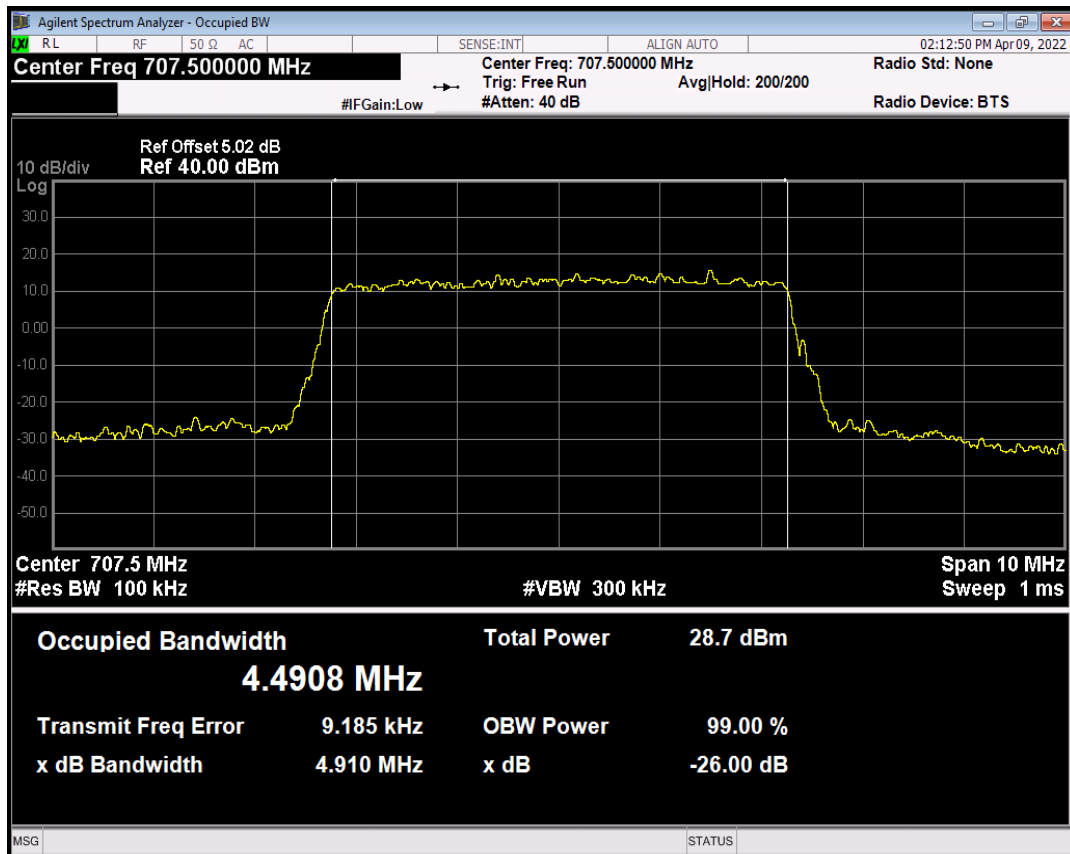
Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



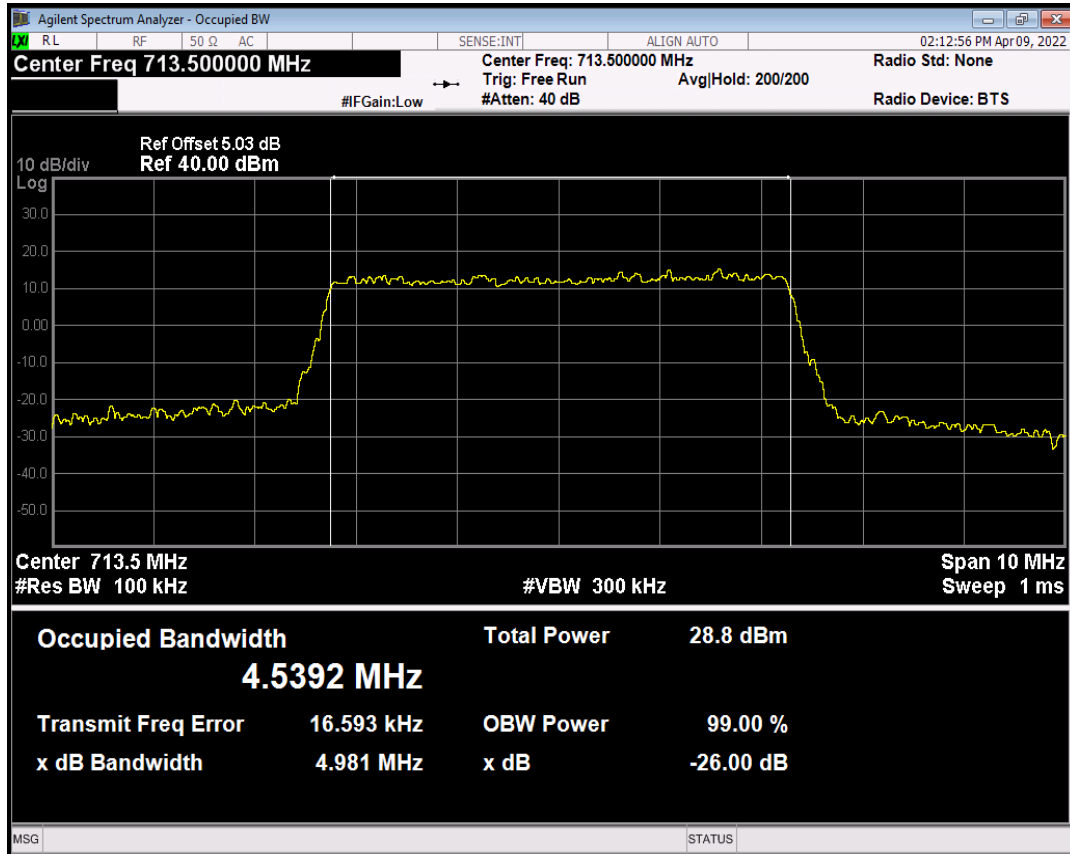
Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



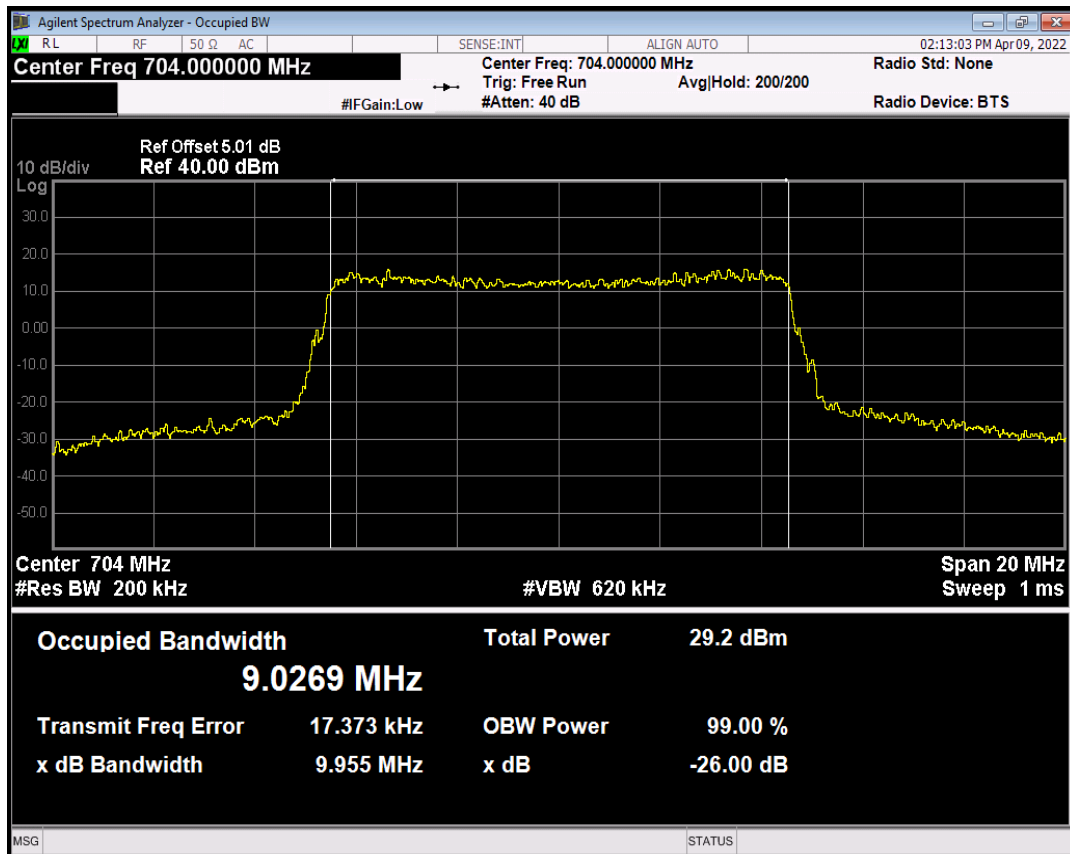
Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0



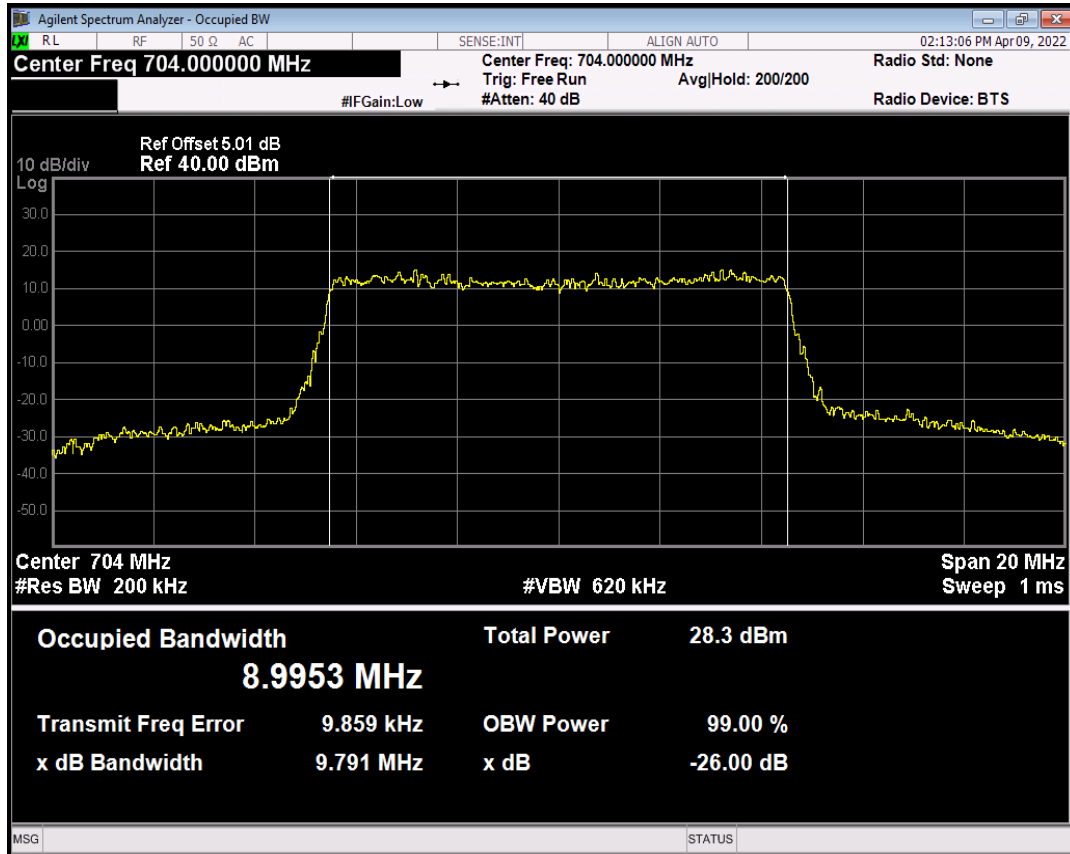
Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



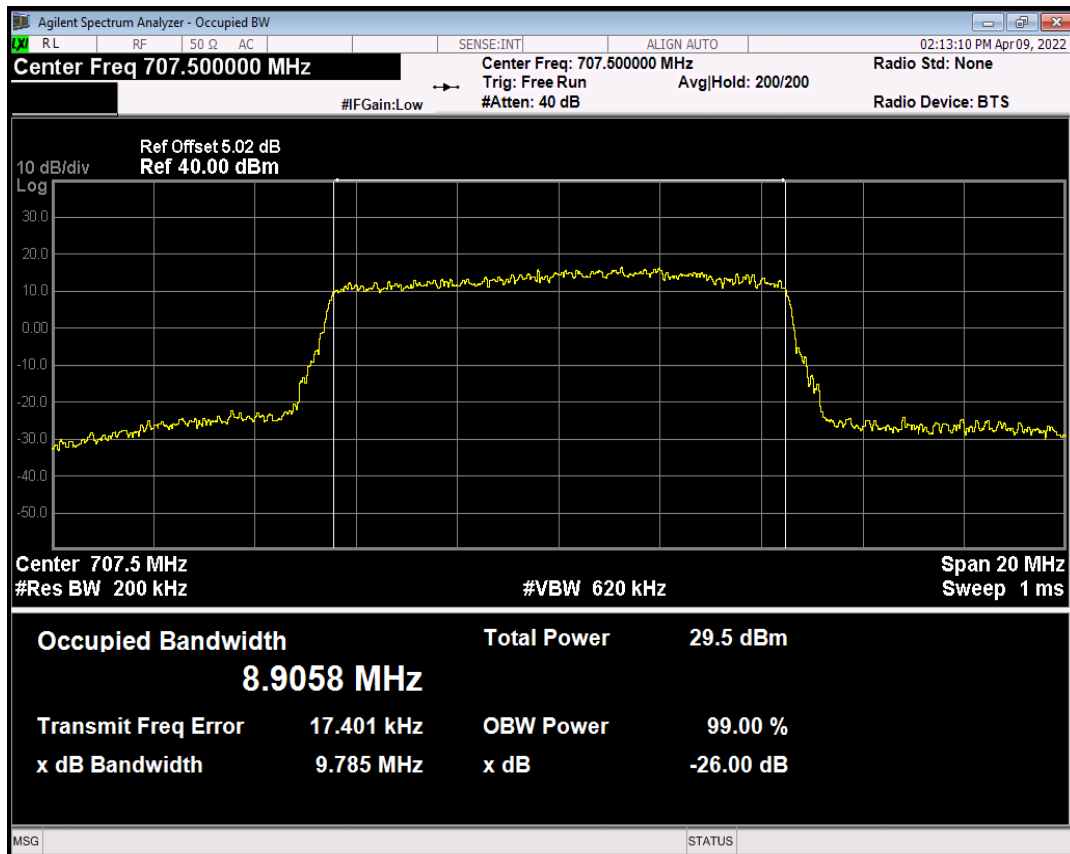
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



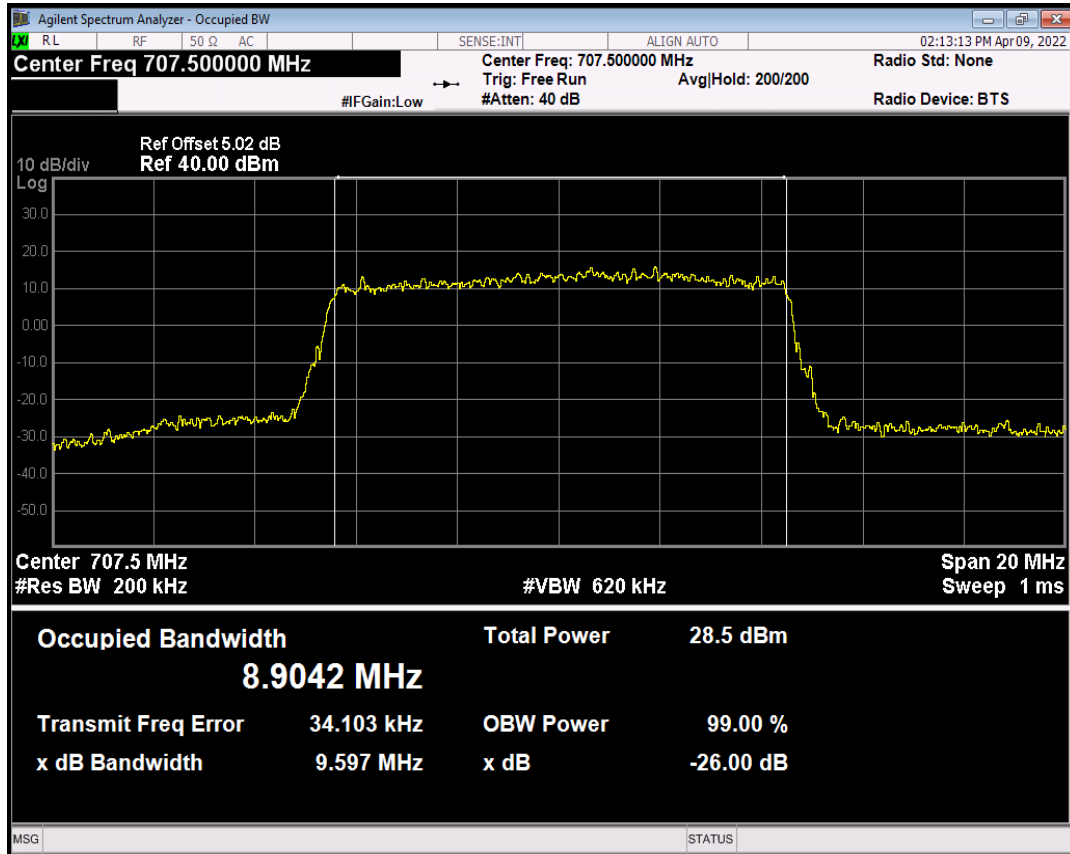
Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



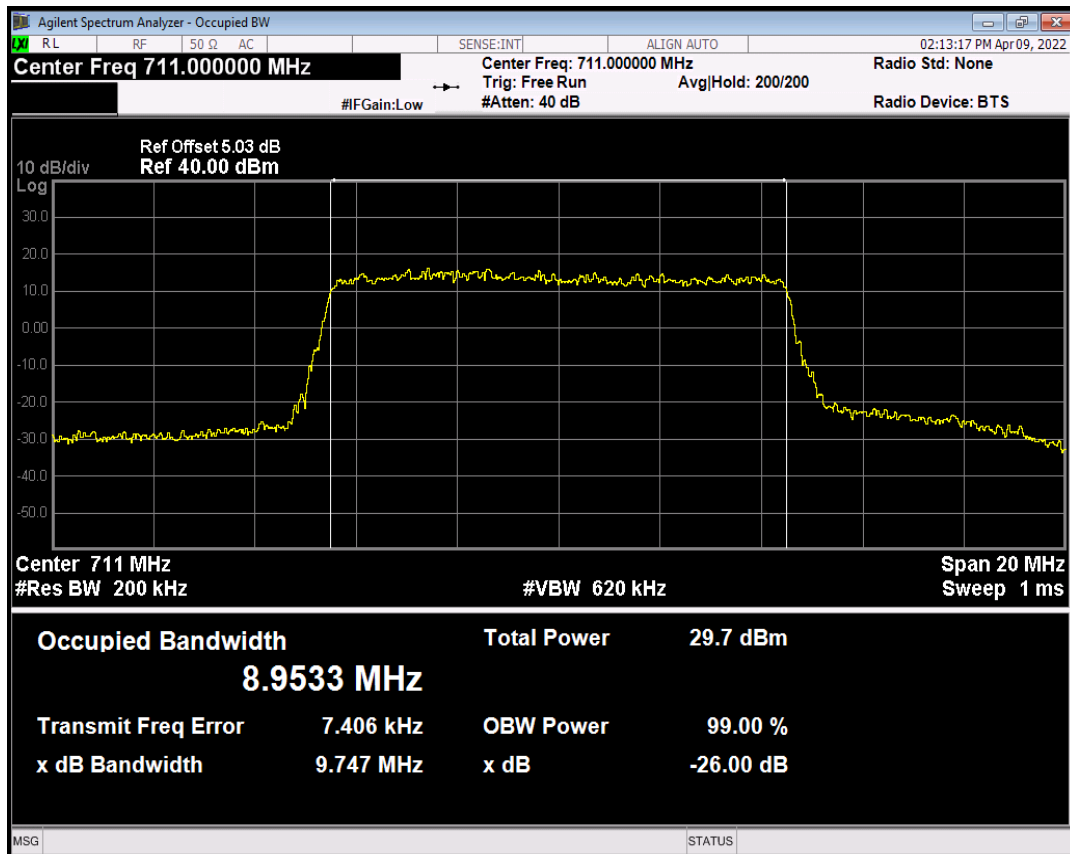
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0

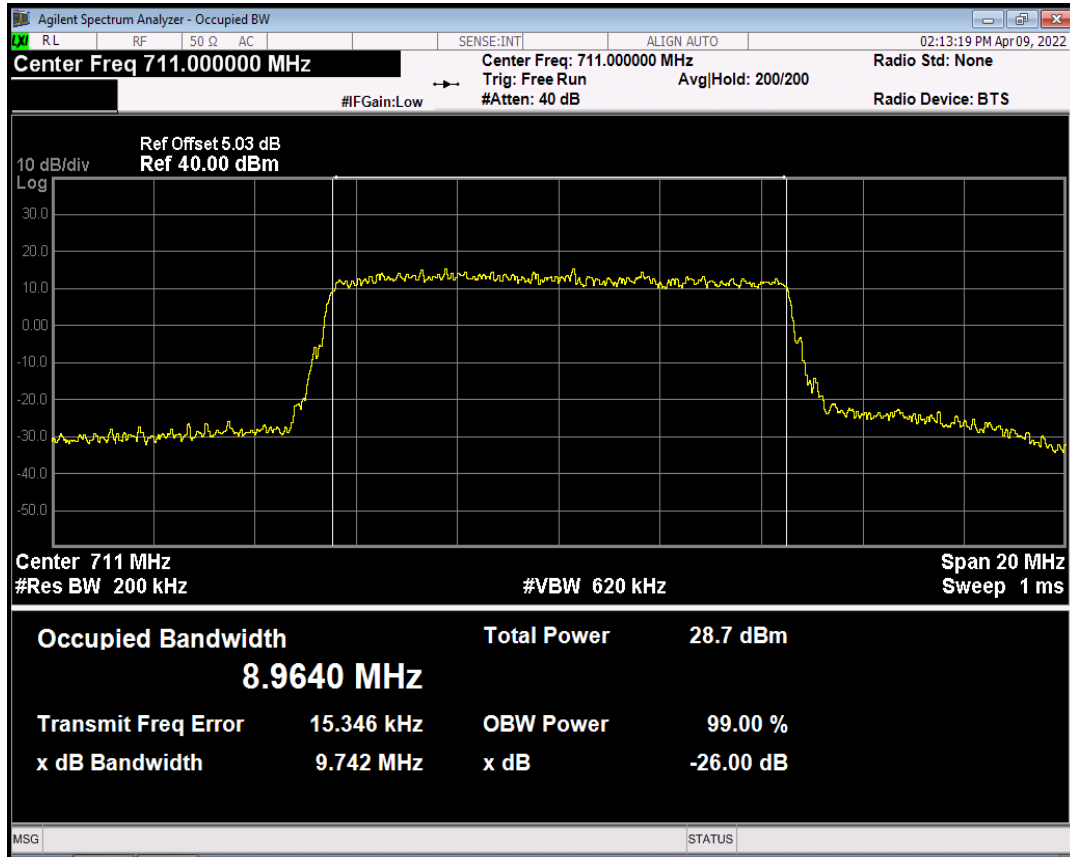


Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0



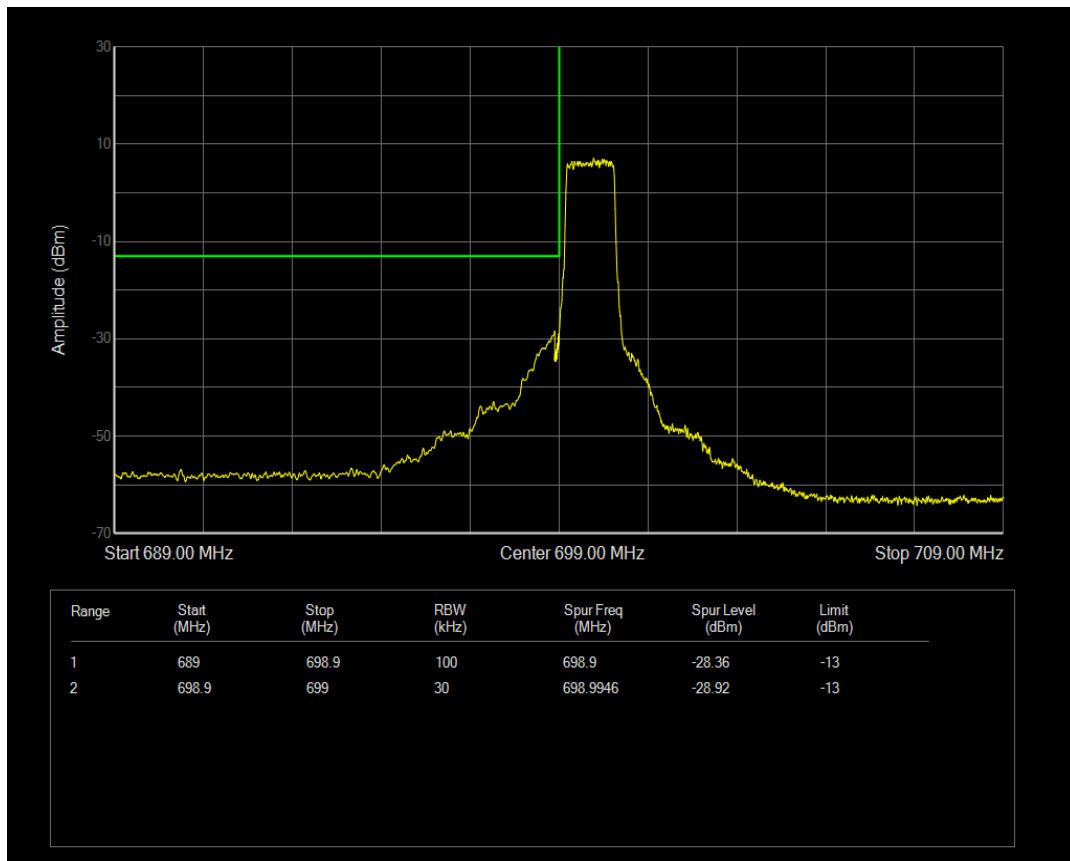


## Appendix 5. Band edge

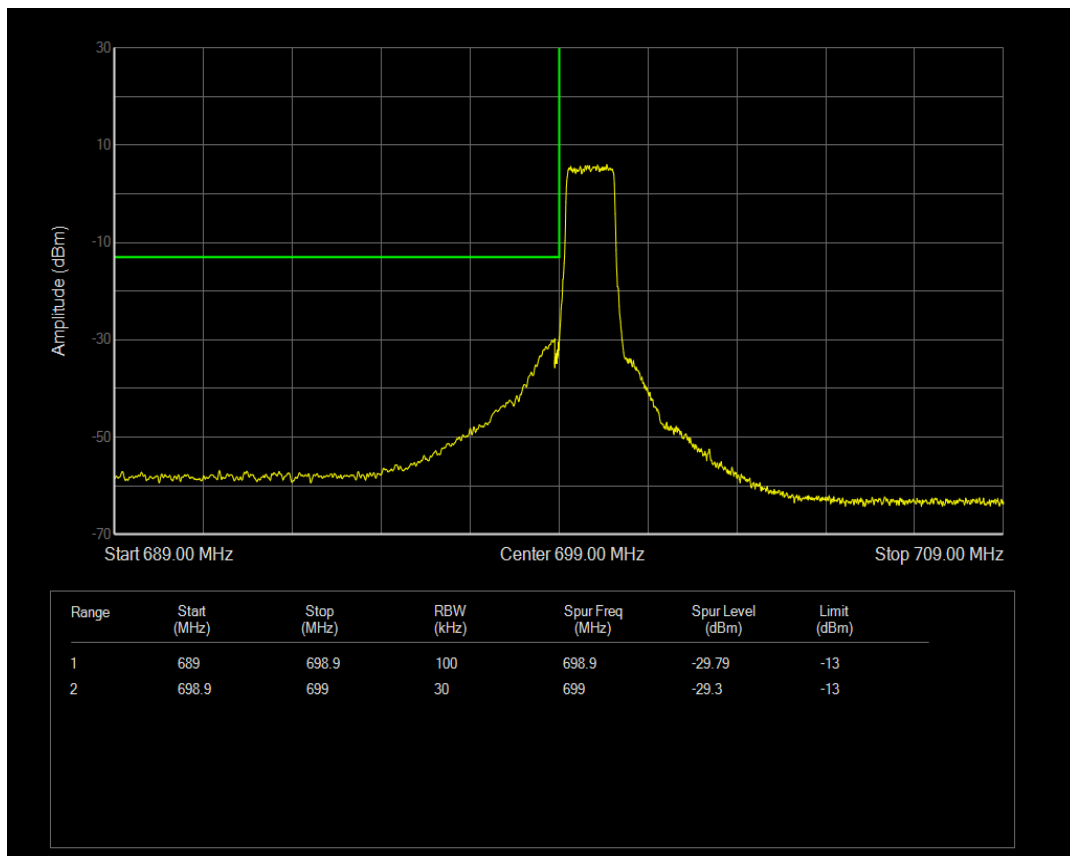
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	698.90	-28.36	-13	PASS
Band12	1.4	23017	6	#0	QAM16	699.00	-29.30	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.00	-25.79	-13	PASS
Band12	1.4	23173	6	#0	QAM16	716.00	-27.00	-13	PASS
Band12	3	23025	15	#0	QPSK	699.00	-28.30	-13	PASS
Band12	3	23025	15	#0	QAM16	699.00	-30.29	-13	PASS
Band12	3	23165	15	#0	QPSK	716.00	-27.23	-13	PASS
Band12	3	23165	15	#0	QAM16	716.00	-27.34	-13	PASS
Band12	5	23035	25	#0	QPSK	698.90	-30.82	-13	PASS
Band12	5	23035	25	#0	QAM16	699.00	-31.89	-13	PASS
Band12	5	23155	25	#0	QPSK	716.11	-29.37	-13	PASS
Band12	5	23155	25	#0	QAM16	716.11	-29.60	-13	PASS
Band12	10	23060	50	#0	QPSK	698.89	-32.44	-13	PASS
Band12	10	23060	50	#0	QAM16	698.90	-34.05	-13	PASS
Band12	10	23130	50	#0	QPSK	716.22	-30.88	-13	PASS
Band12	10	23130	50	#0	QAM16	716.20	-32.46	-13	PASS



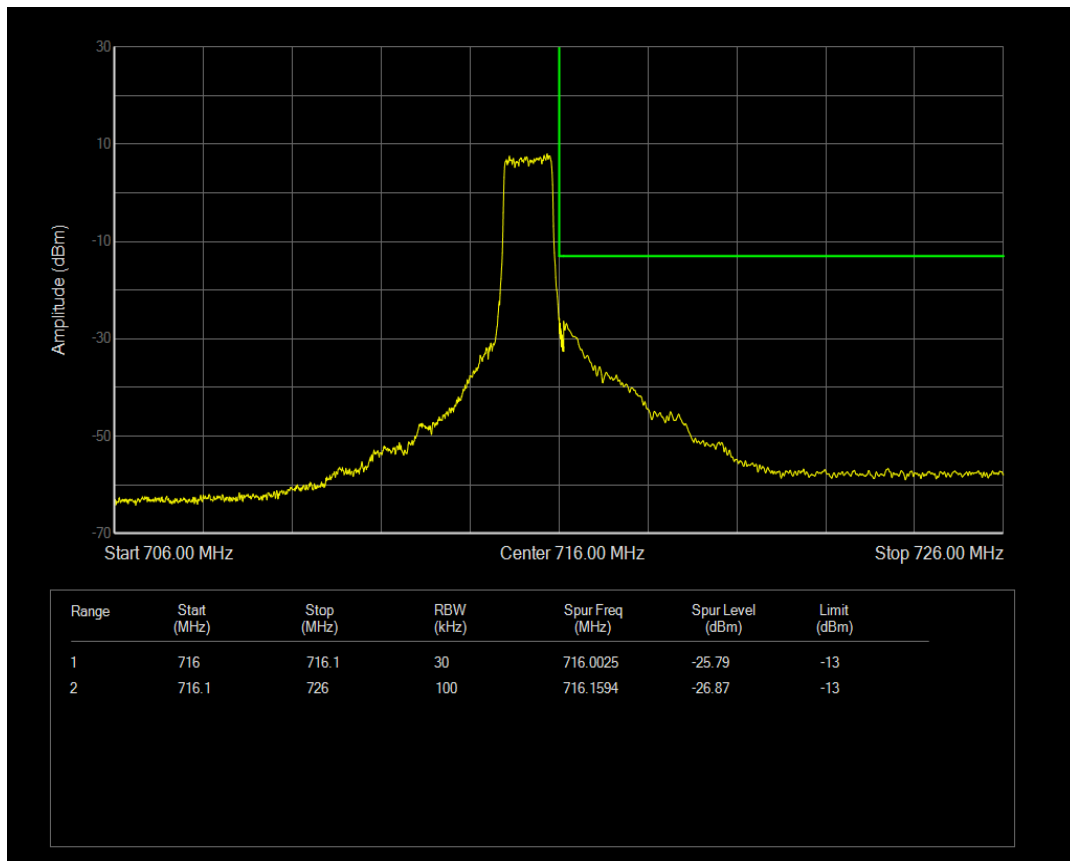
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



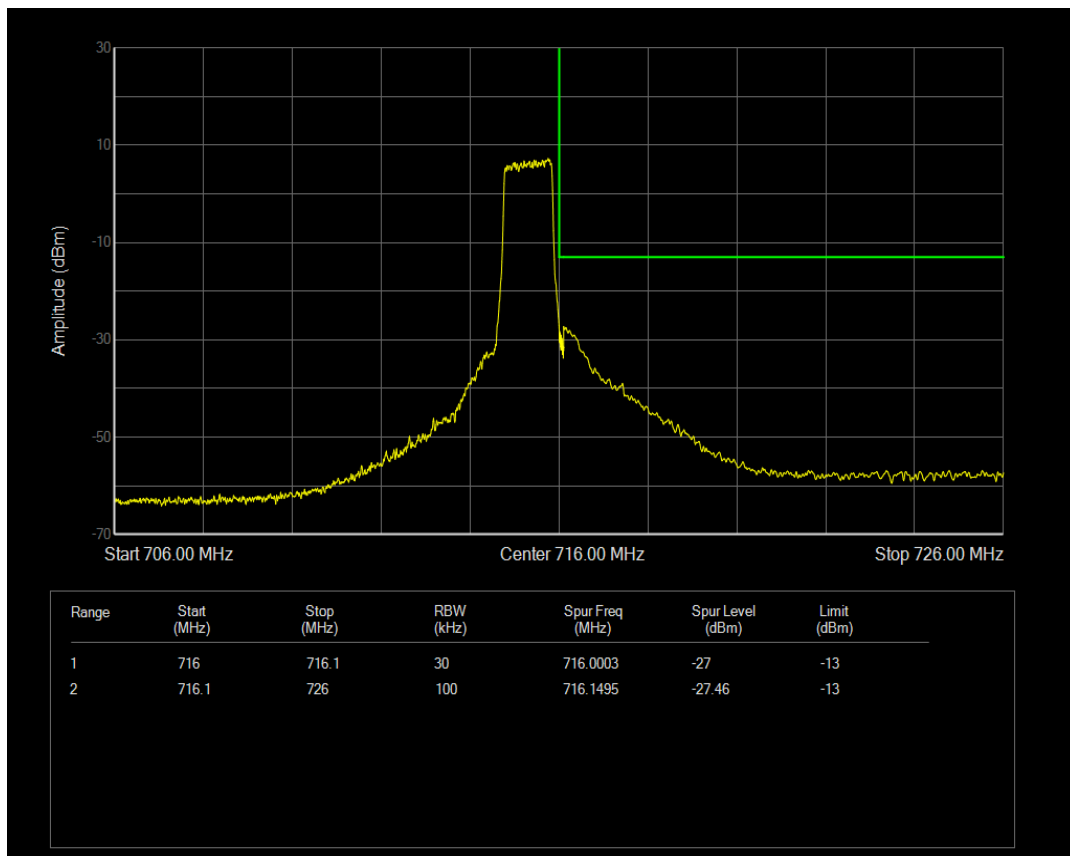
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

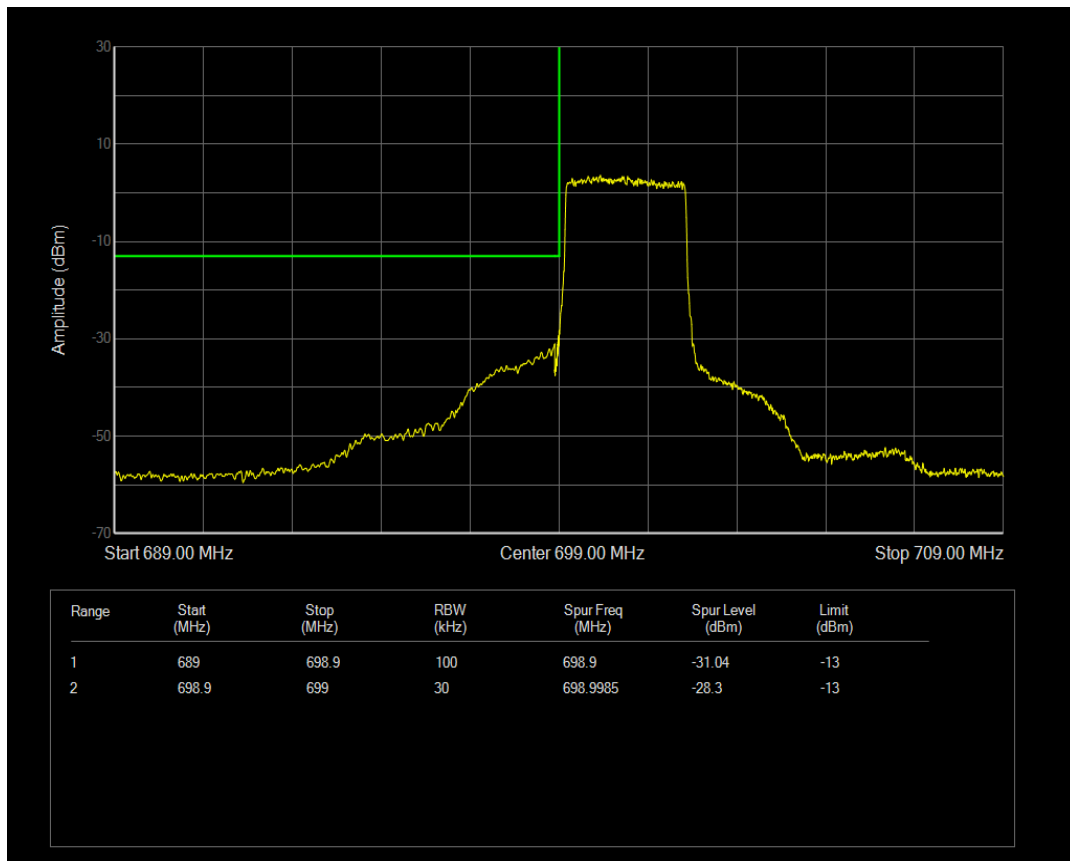


Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0

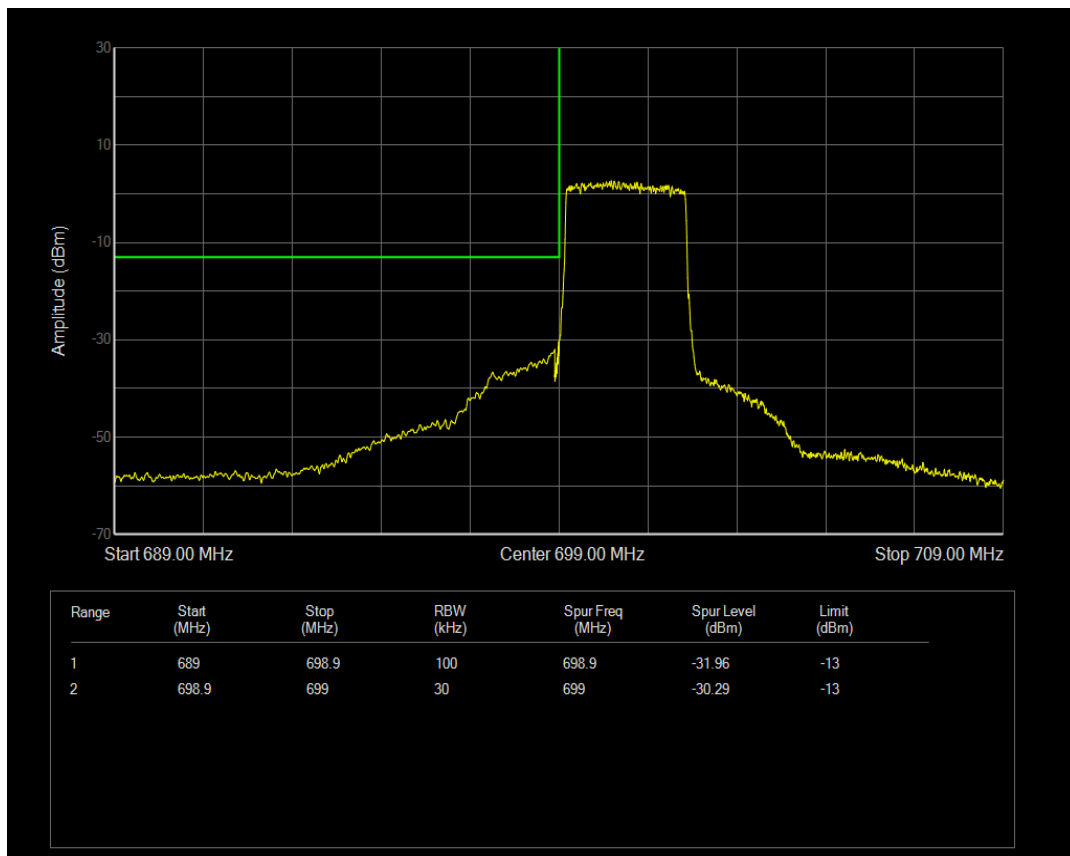




Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

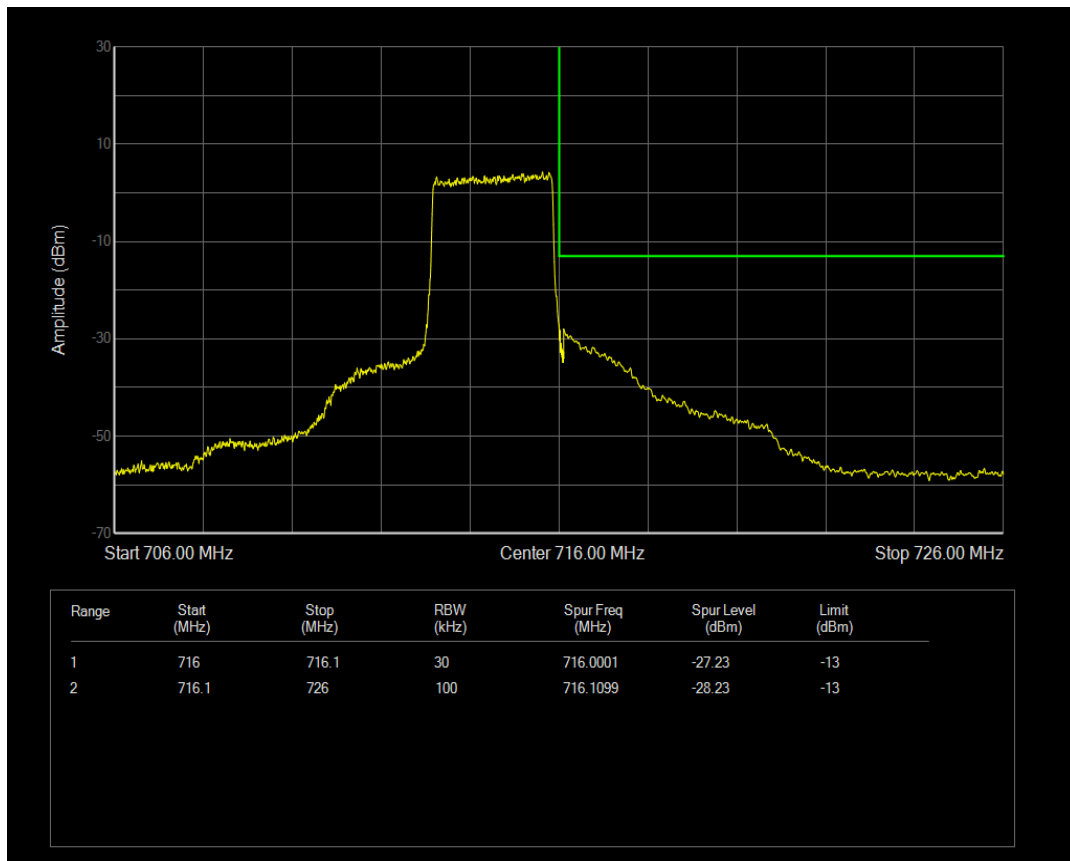


Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0

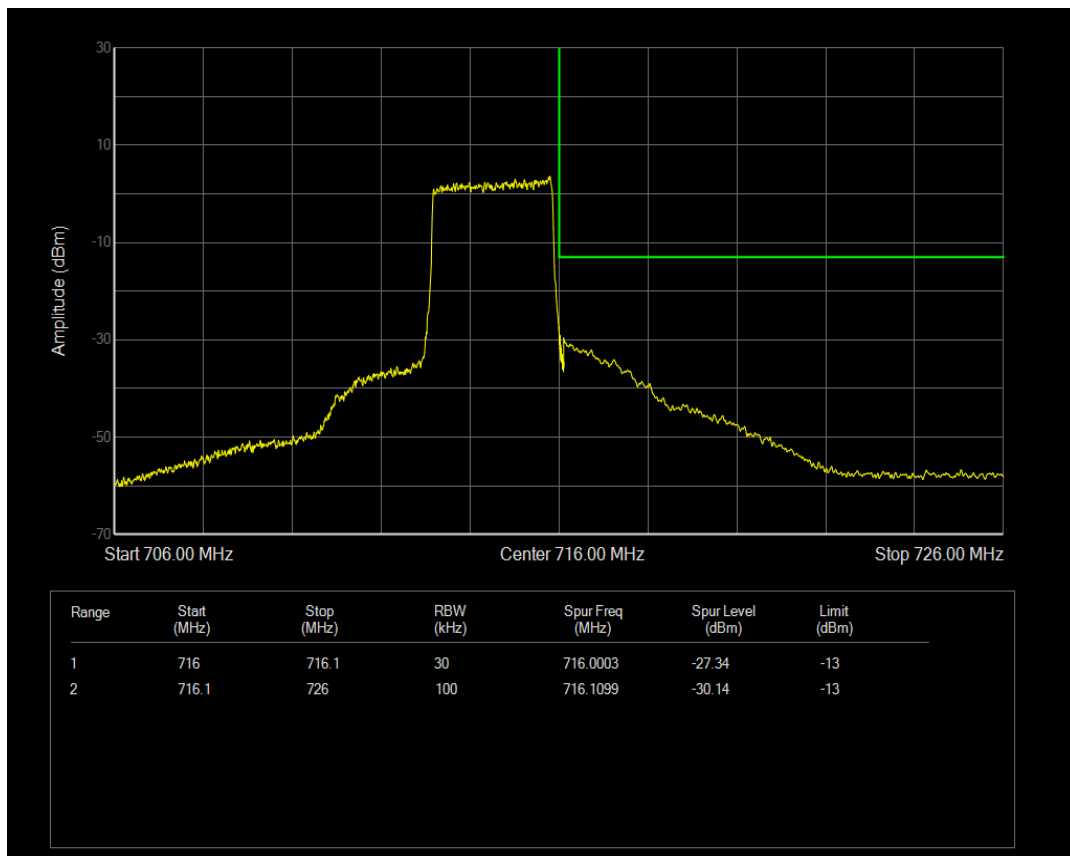




Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

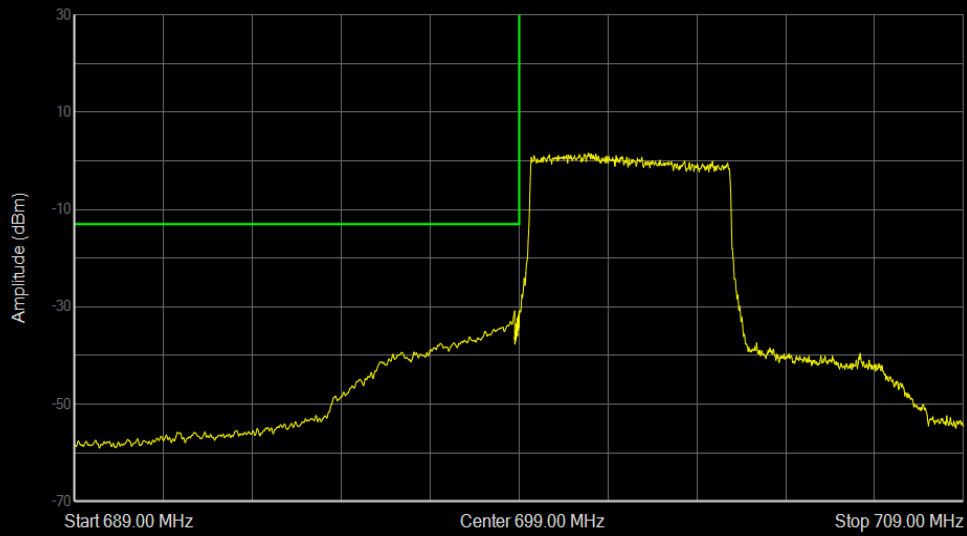


Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0



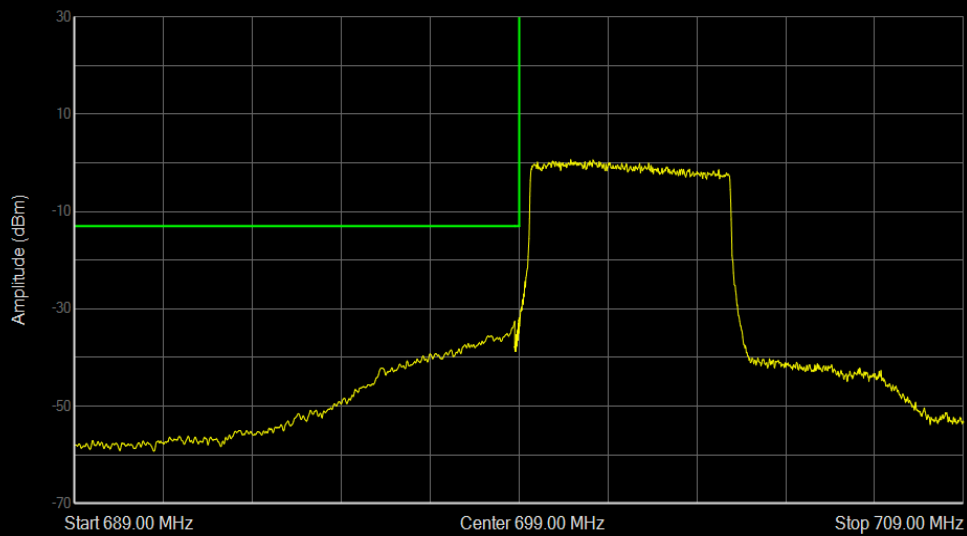


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



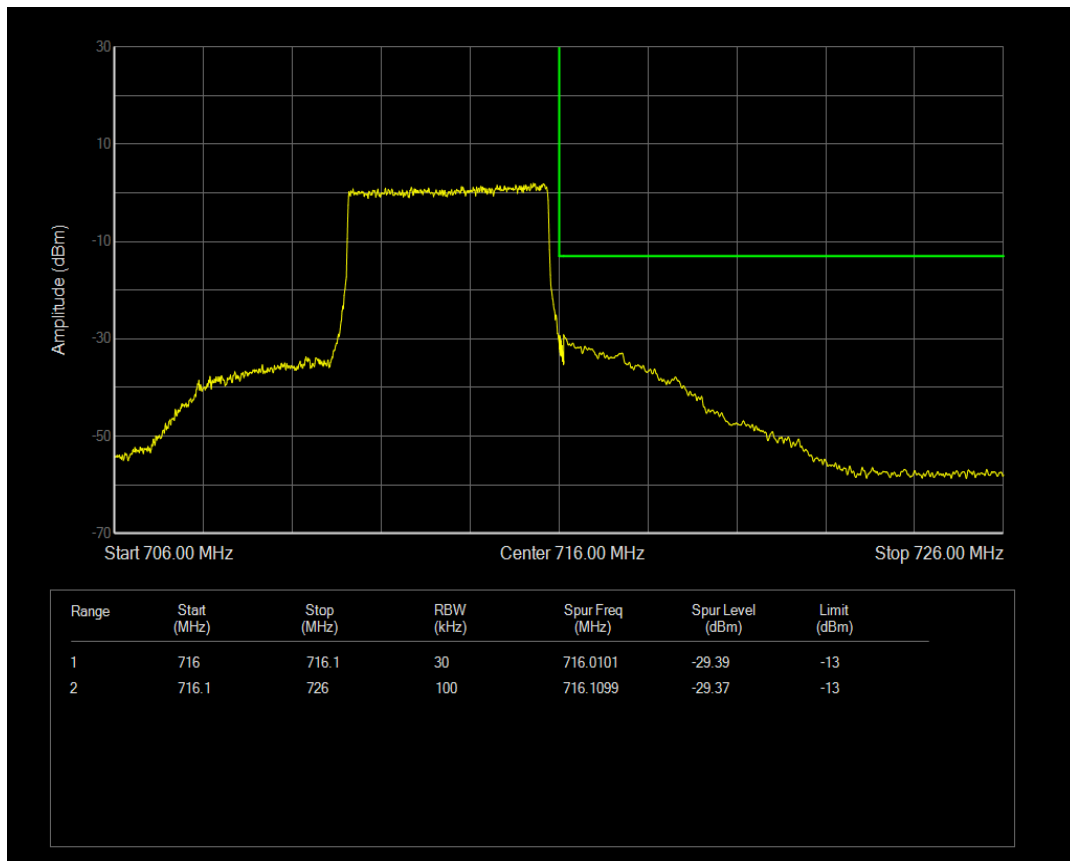
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-30.82	-13
2	698.9	699	30	698.9984	-31.02	-13

Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0

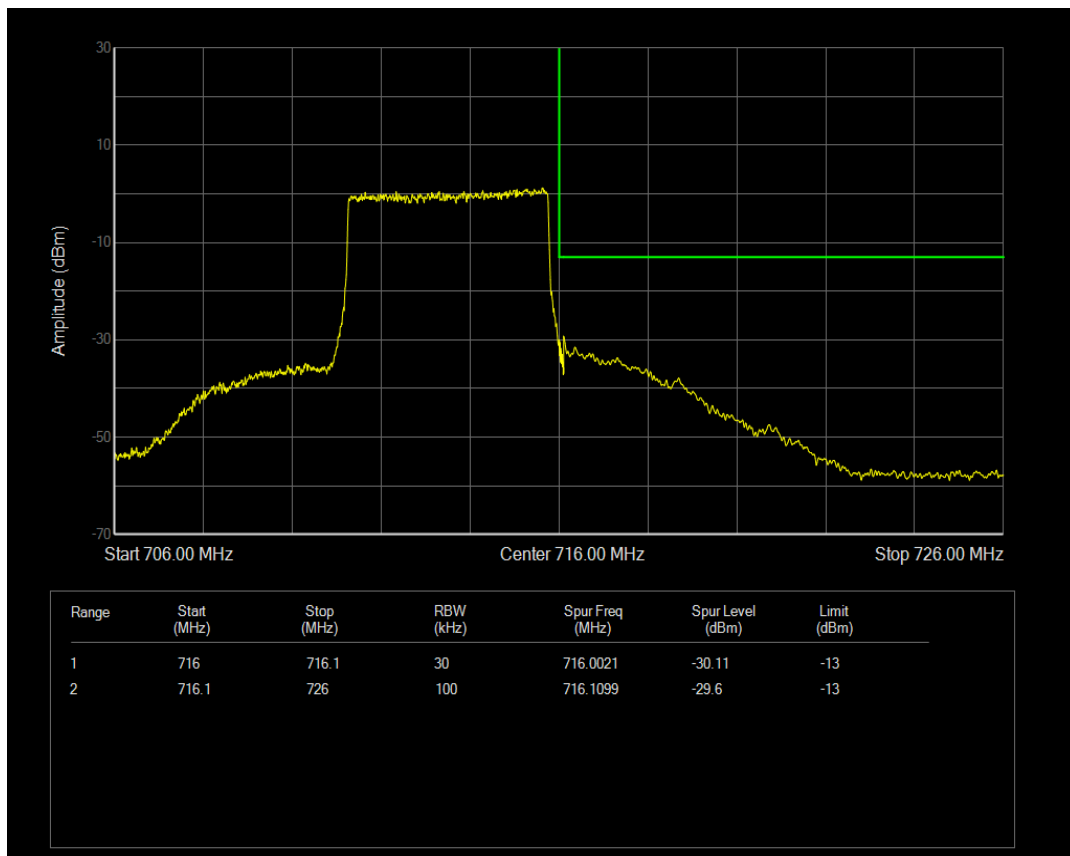


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-32.52	-13
2	698.9	699	30	698.998	-31.89	-13

Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



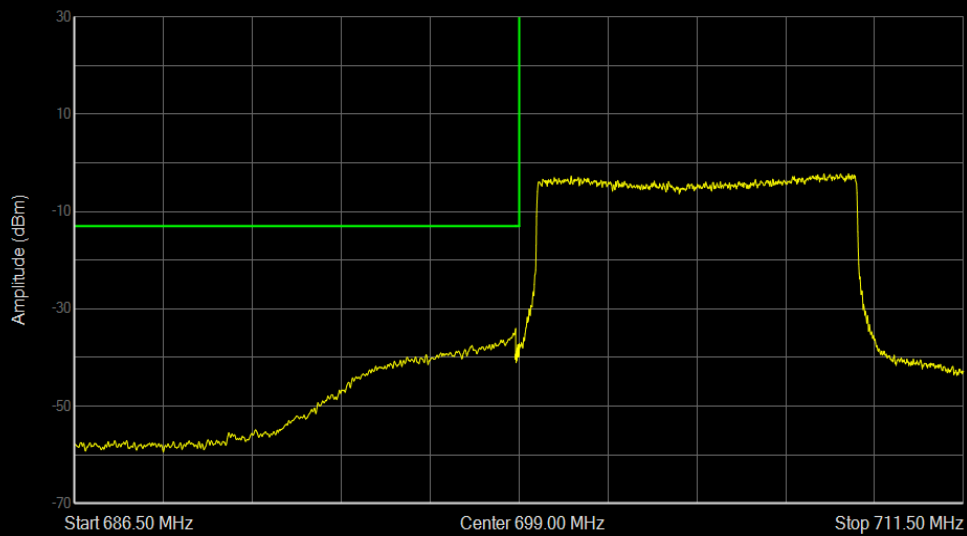


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.8876	-32.44	-13
2	698.9	699	30	698.9918	-35.43	-13

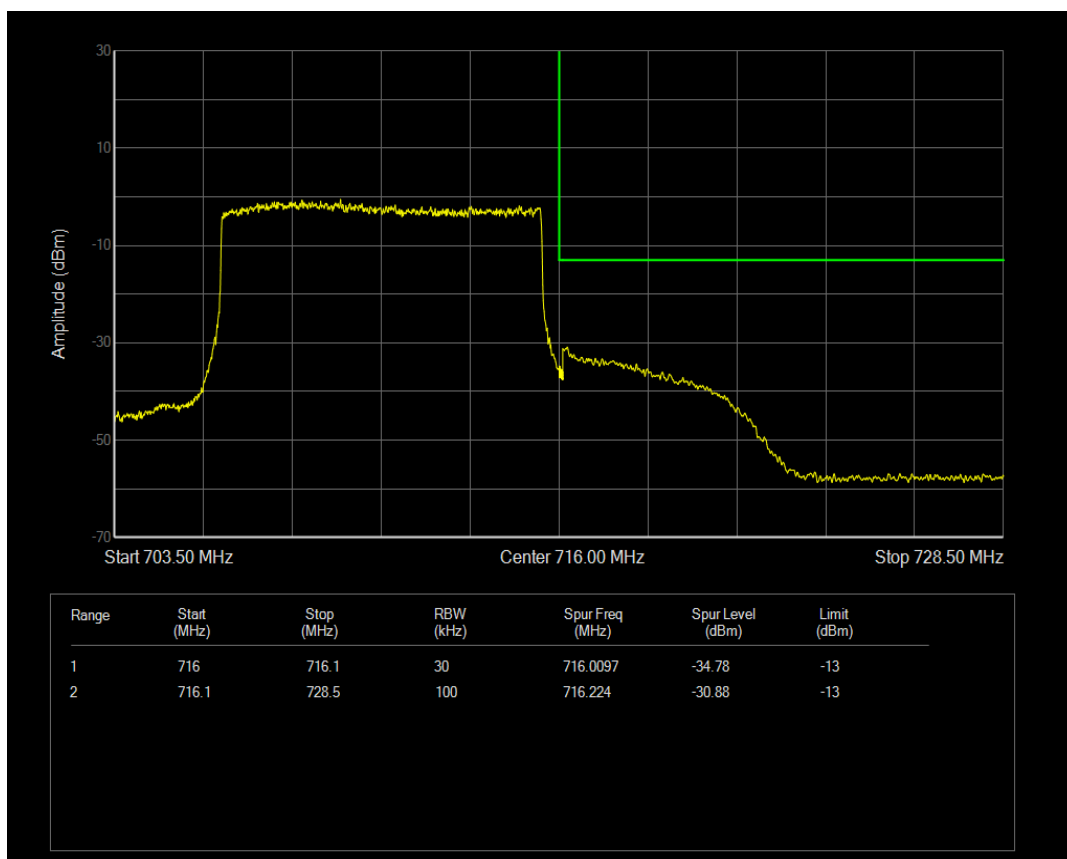
Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



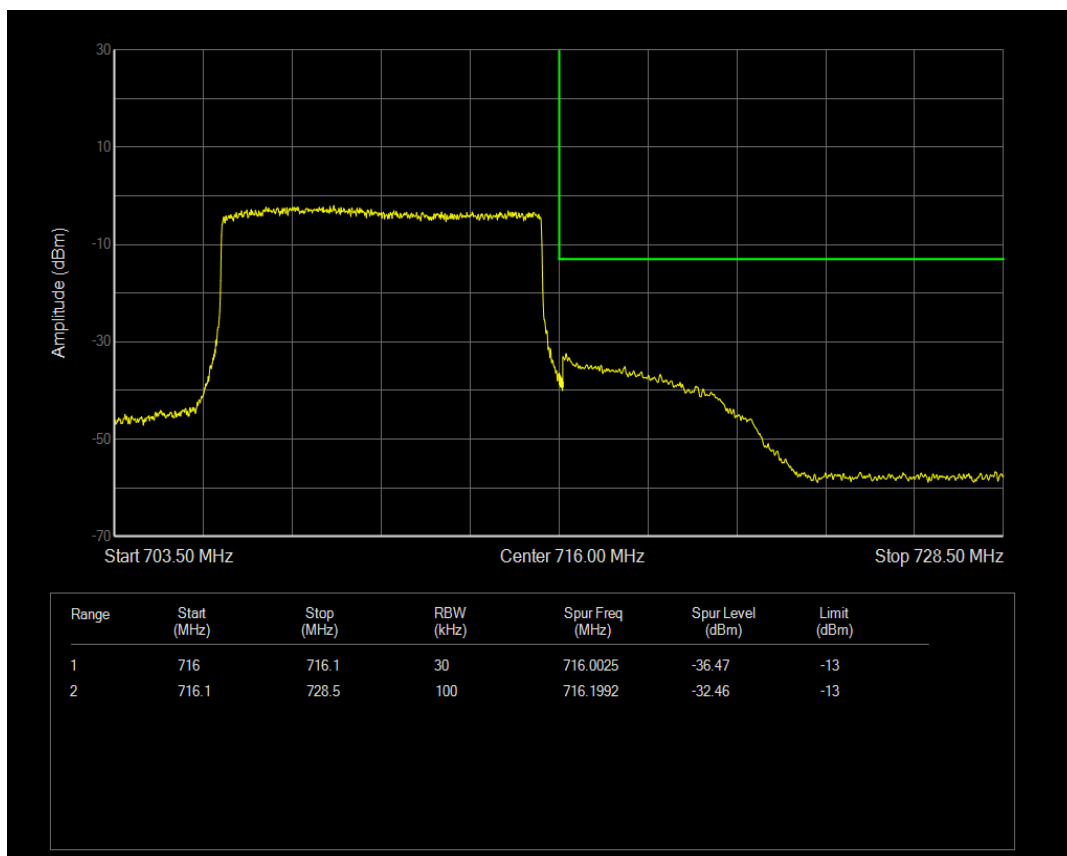
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.9	-34.05	-13
2	698.9	699	30	698.9995	-37.17	-13



Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



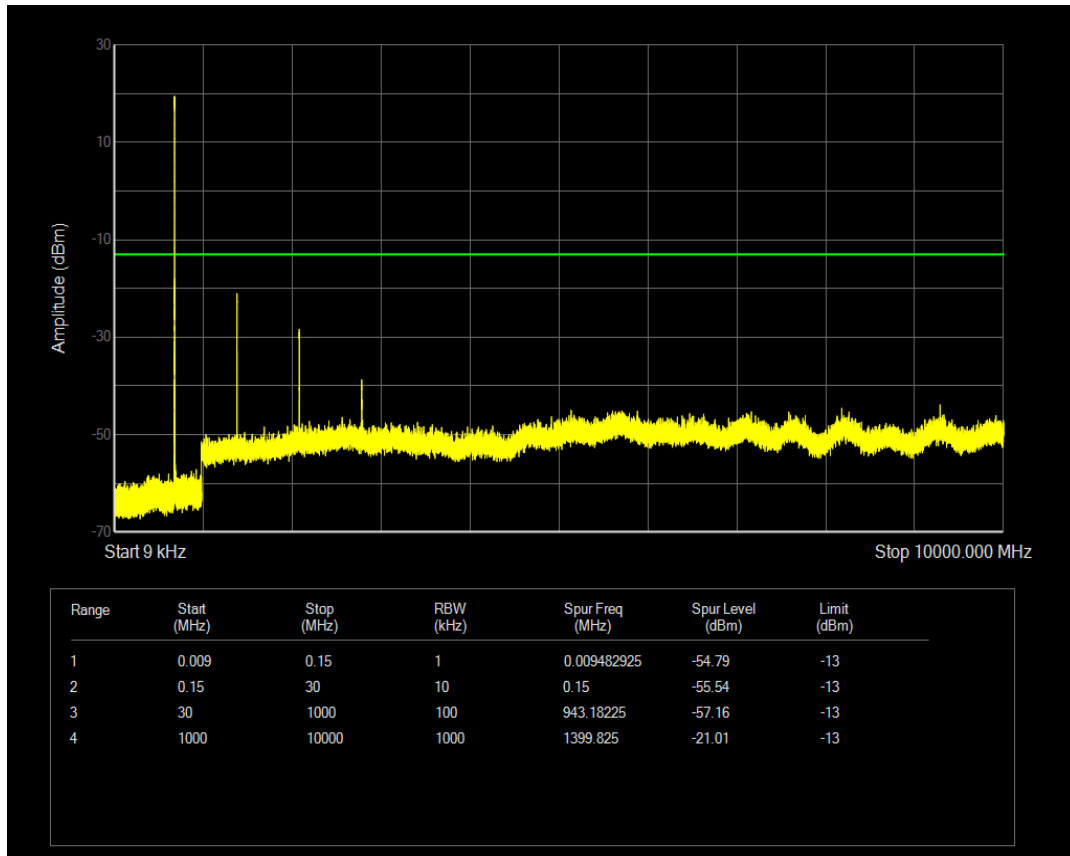
Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0



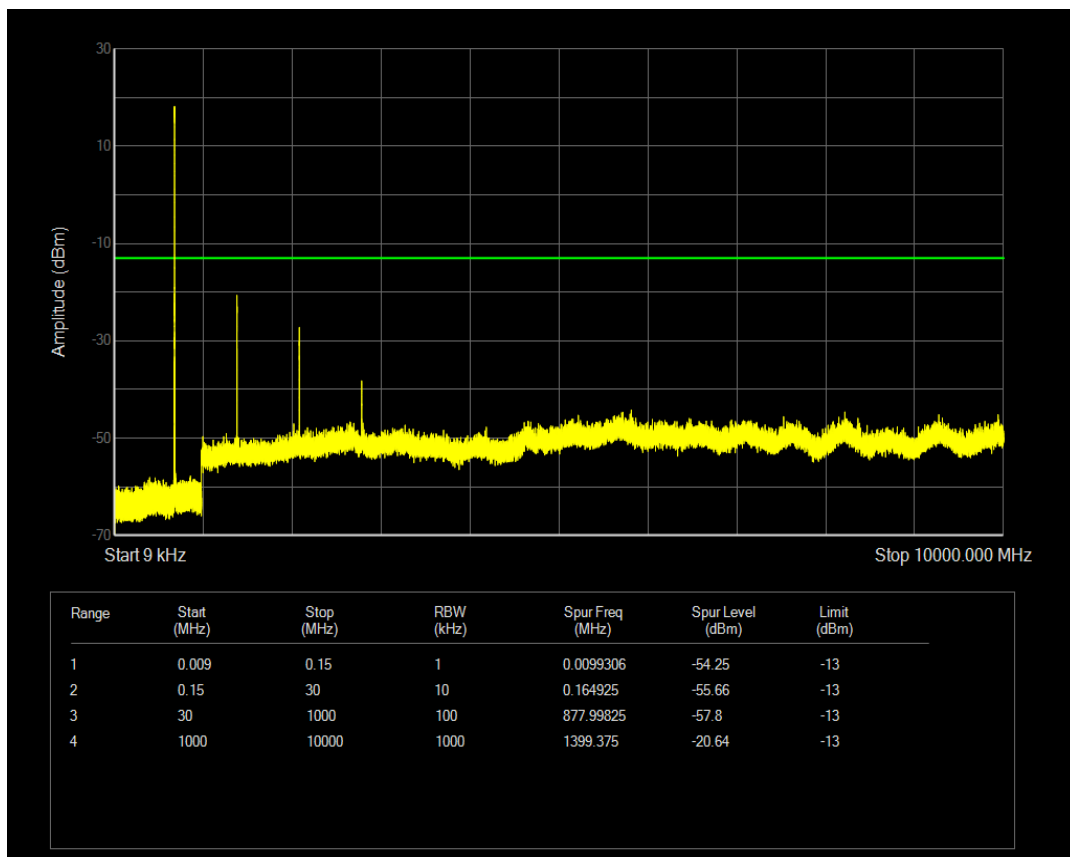
## Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	6	#0	QPSK	1399.83	-21.01	-13	PASS
Band12	1.4	23017	6	#0	QAM16	1399.38	-20.64	-13	PASS
Band12	1.4	23095	6	#0	QPSK	1415.35	-15.87	-13	PASS
Band12	1.4	23095	6	#0	QAM16	1415.35	-16.29	-13	PASS
Band12	1.4	23173	6	#0	QPSK	1431.33	-18.33	-13	PASS
Band12	1.4	23173	6	#0	QAM16	1430.65	-18.44	-13	PASS
Band12	3	23025	15	#0	QPSK	1399.60	-25.76	-13	PASS
Band12	3	23025	15	#0	QAM16	1399.60	-26.34	-13	PASS
Band12	3	23095	15	#0	QPSK	1417.15	-20.09	-13	PASS
Band12	3	23095	15	#0	QAM16	1415.58	-19.98	-13	PASS
Band12	3	23165	15	#0	QPSK	1429.53	-22.49	-13	PASS
Band12	3	23165	15	#0	QAM16	1430.88	-22.21	-13	PASS
Band12	5	23035	25	#0	QPSK	1401.40	-29.38	-13	PASS
Band12	5	23035	25	#0	QAM16	1401.63	-28.03	-13	PASS
Band12	5	23095	25	#0	QPSK	1417.38	-22.50	-13	PASS
Band12	5	23095	25	#0	QAM16	1415.35	-21.44	-13	PASS
Band12	5	23155	25	#0	QPSK	1426.83	-24.81	-13	PASS
Band12	5	23155	25	#0	QAM16	1428.63	-24.81	-13	PASS
Band12	10	23060	50	#0	QPSK	1415.13	-25.58	-13	PASS
Band12	10	23060	50	#0	QAM16	1413.10	-26.07	-13	PASS
Band12	10	23095	50	#0	QPSK	1417.60	-24.64	-13	PASS
Band12	10	23095	50	#0	QAM16	1415.58	-23.20	-13	PASS
Band12	10	23130	50	#0	QPSK	1417.60	-24.04	-13	PASS
Band12	10	23130	50	#0	QAM16	1417.38	-26.03	-13	PASS

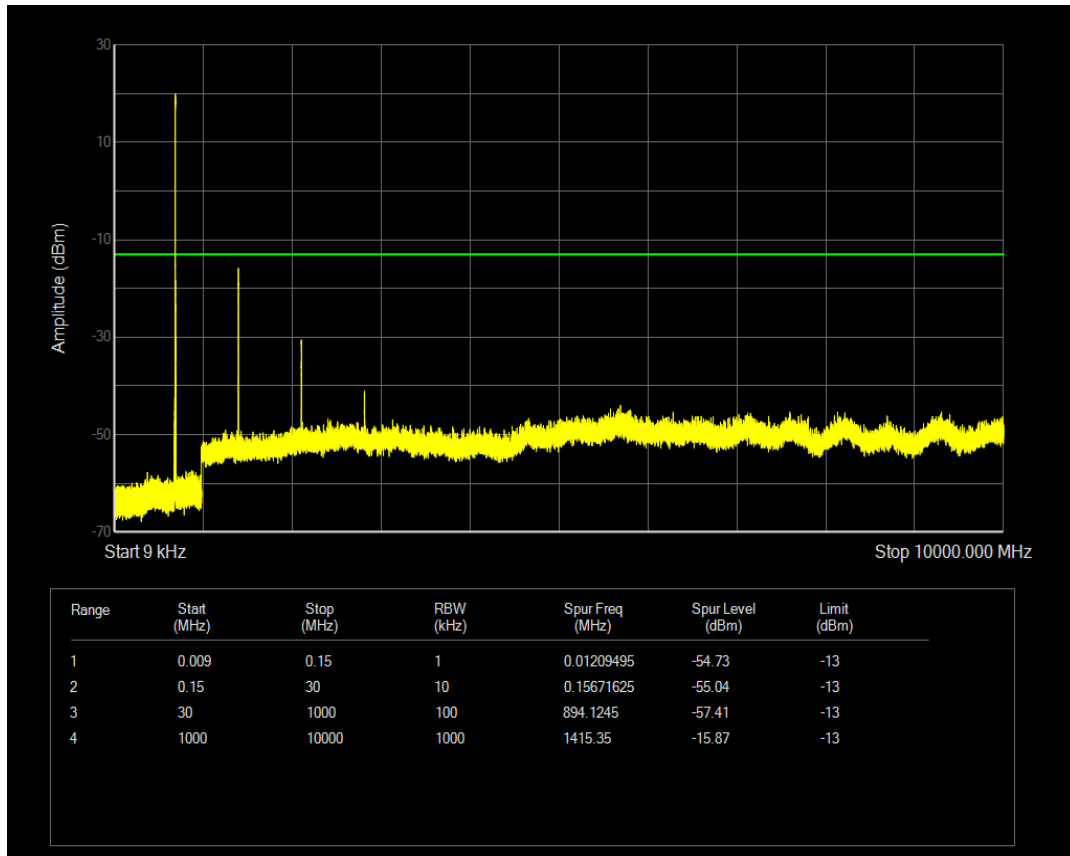
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



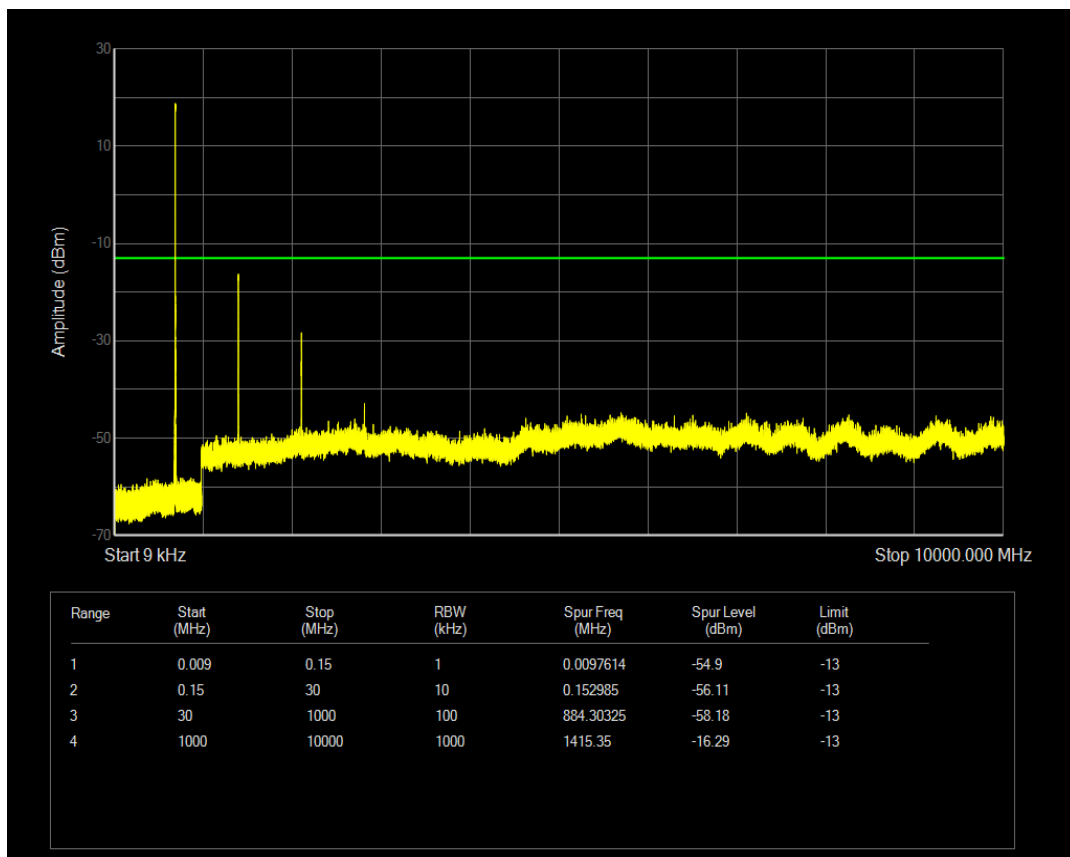
Band12 QAM16 BW=1.4MHz Channel=23017 RB Size=6 Position=#0



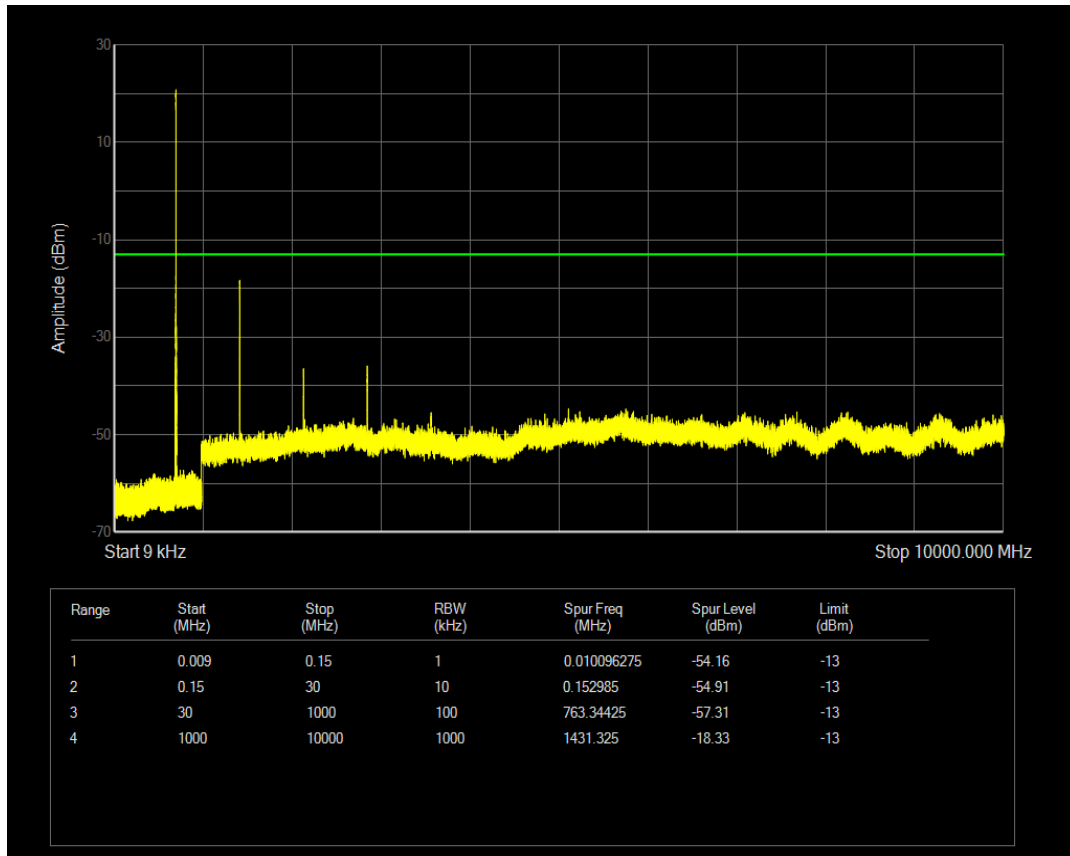
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



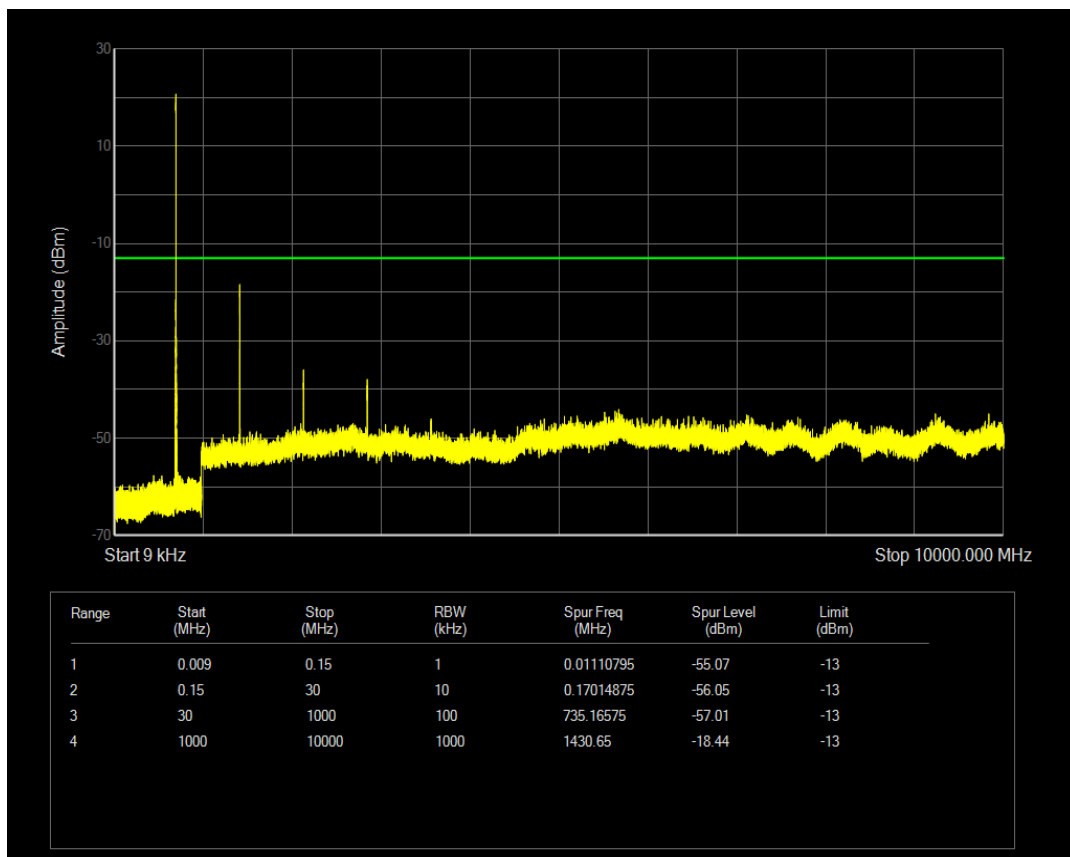
Band12 QAM16 BW=1.4MHz Channel=23095 RB Size=6 Position=#0



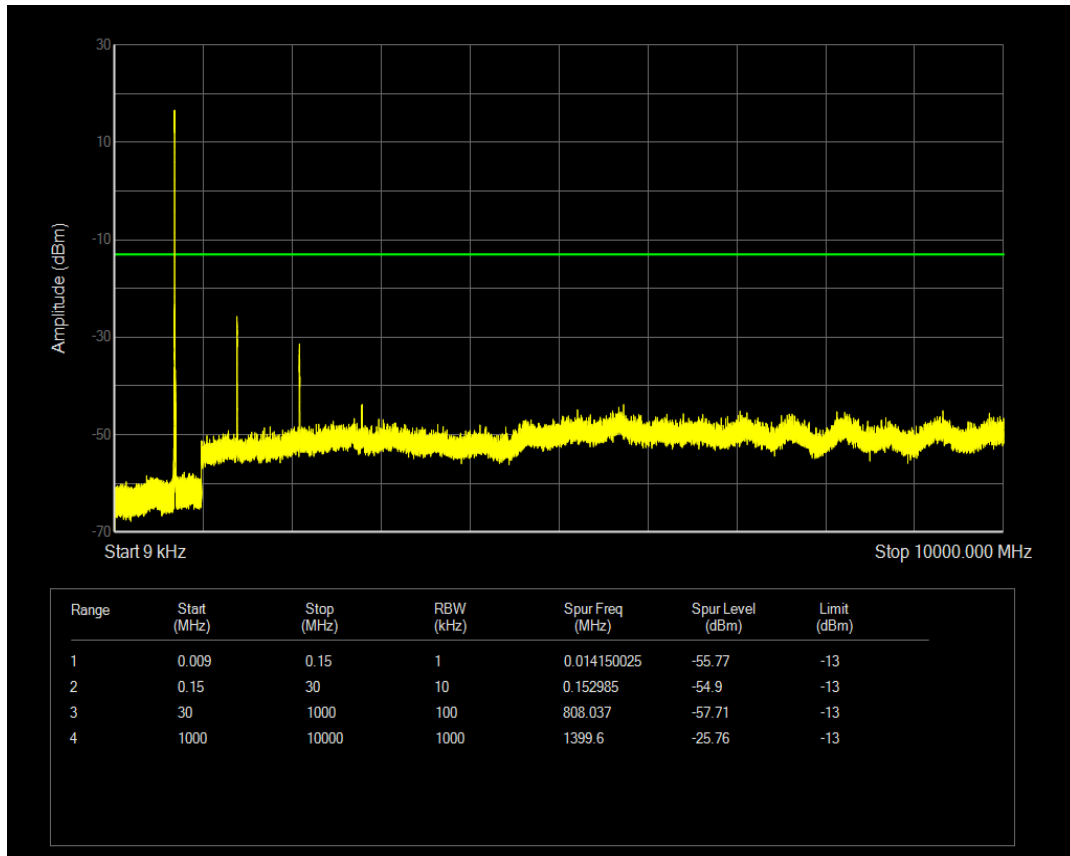
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



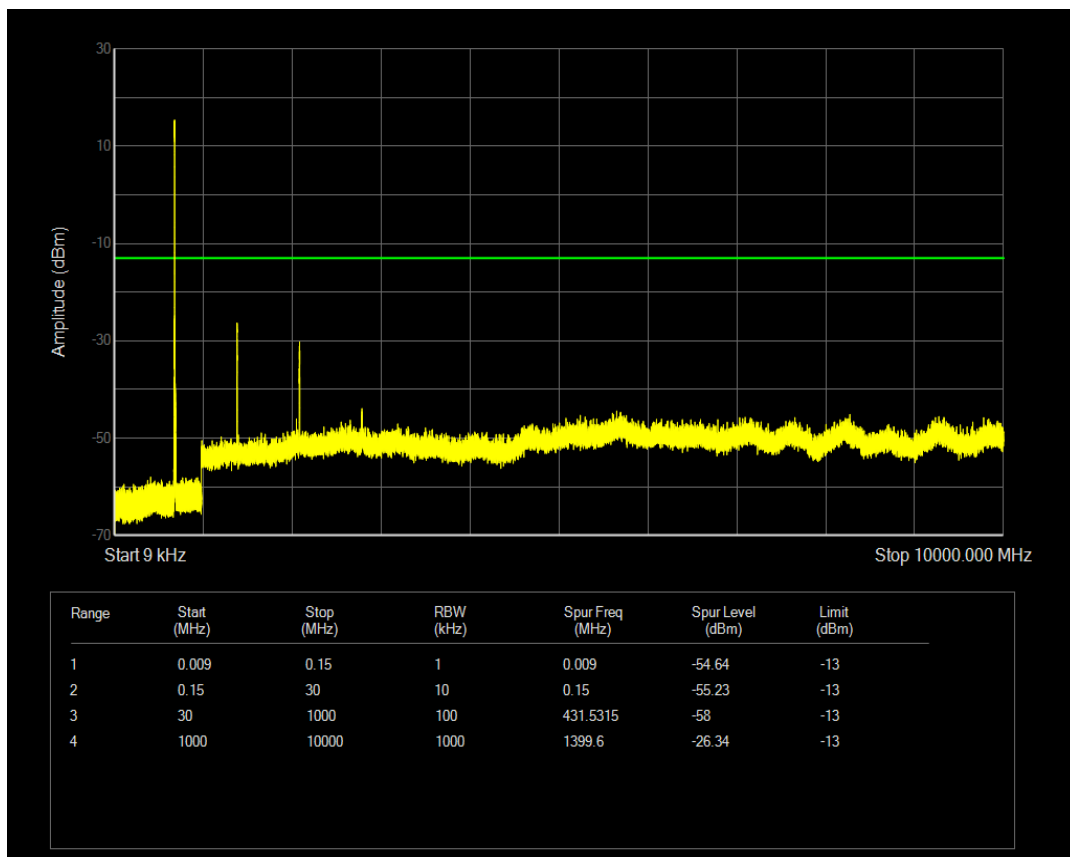
Band12 QAM16 BW=1.4MHz Channel=23173 RB Size=6 Position=#0



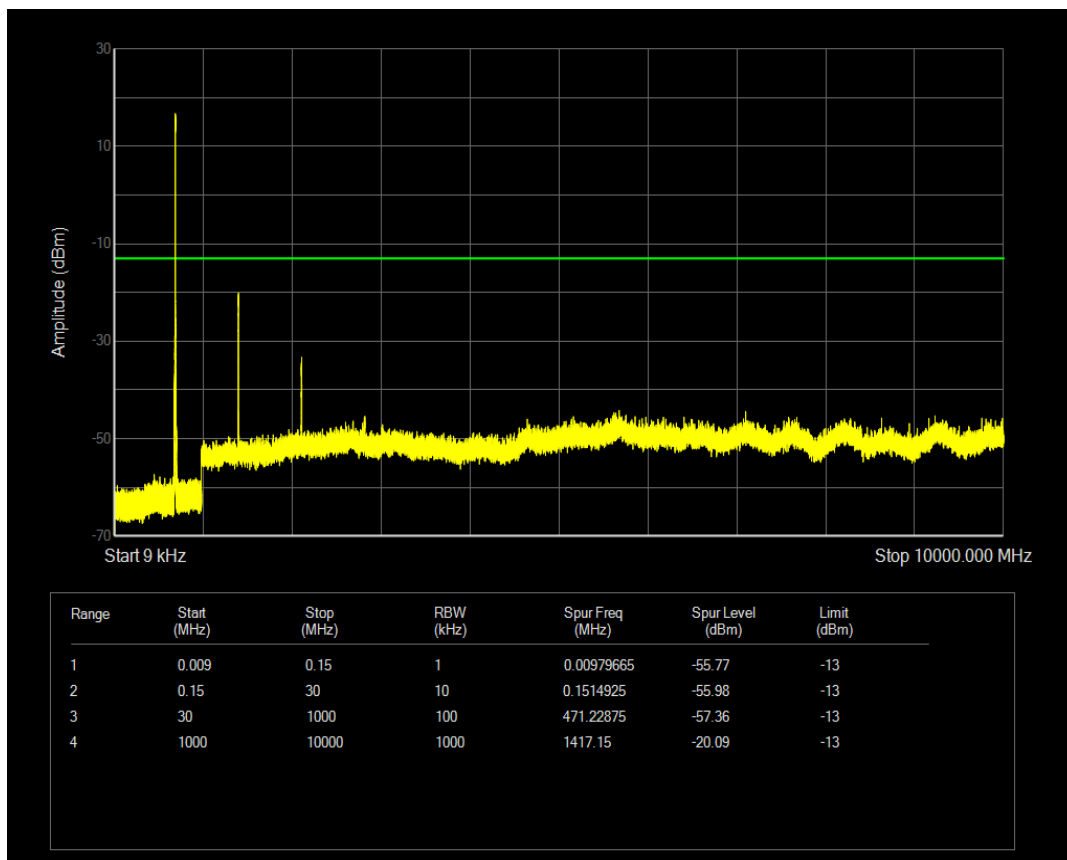
Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



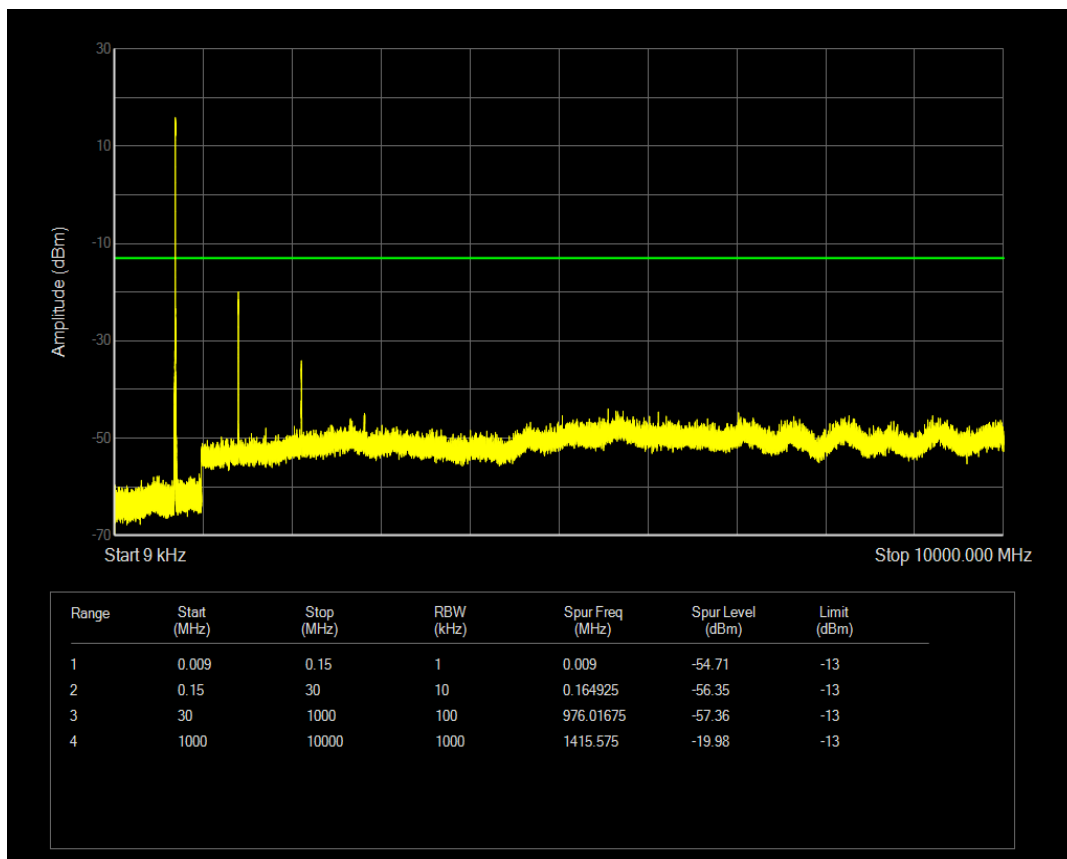
Band12 QAM16 BW=3MHz Channel=23025 RB Size=15 Position=#0



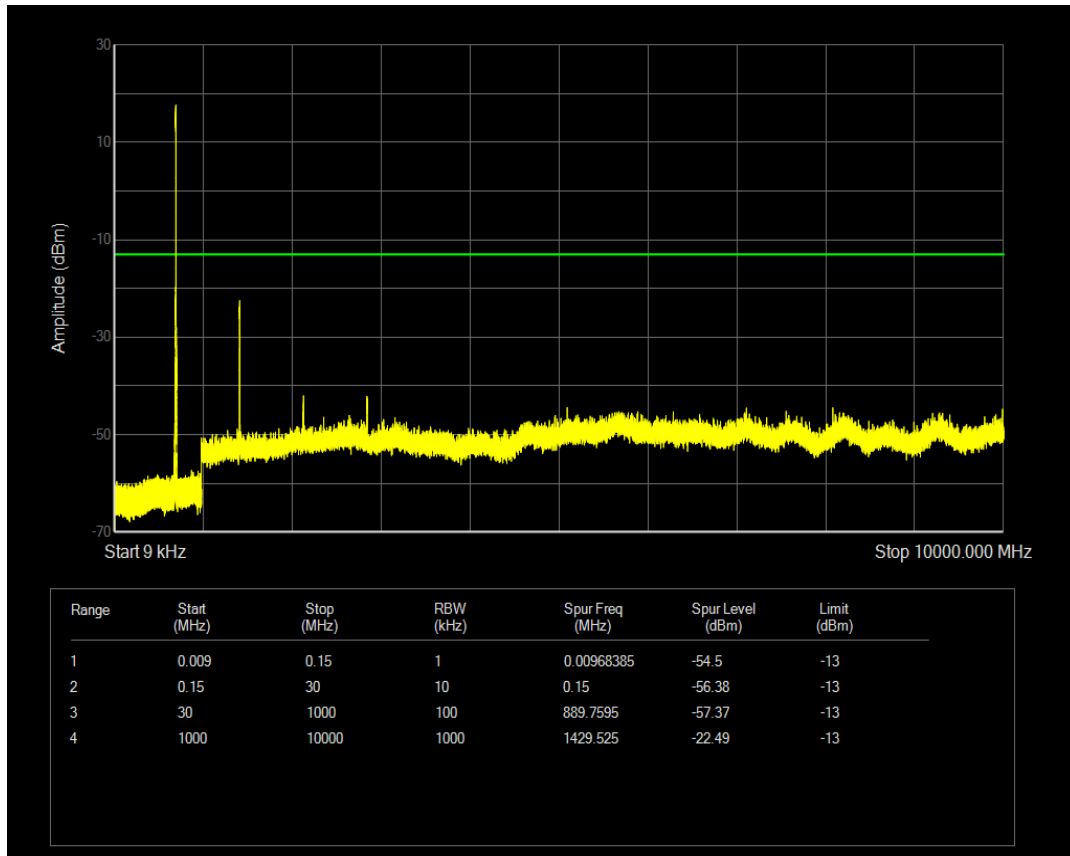
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



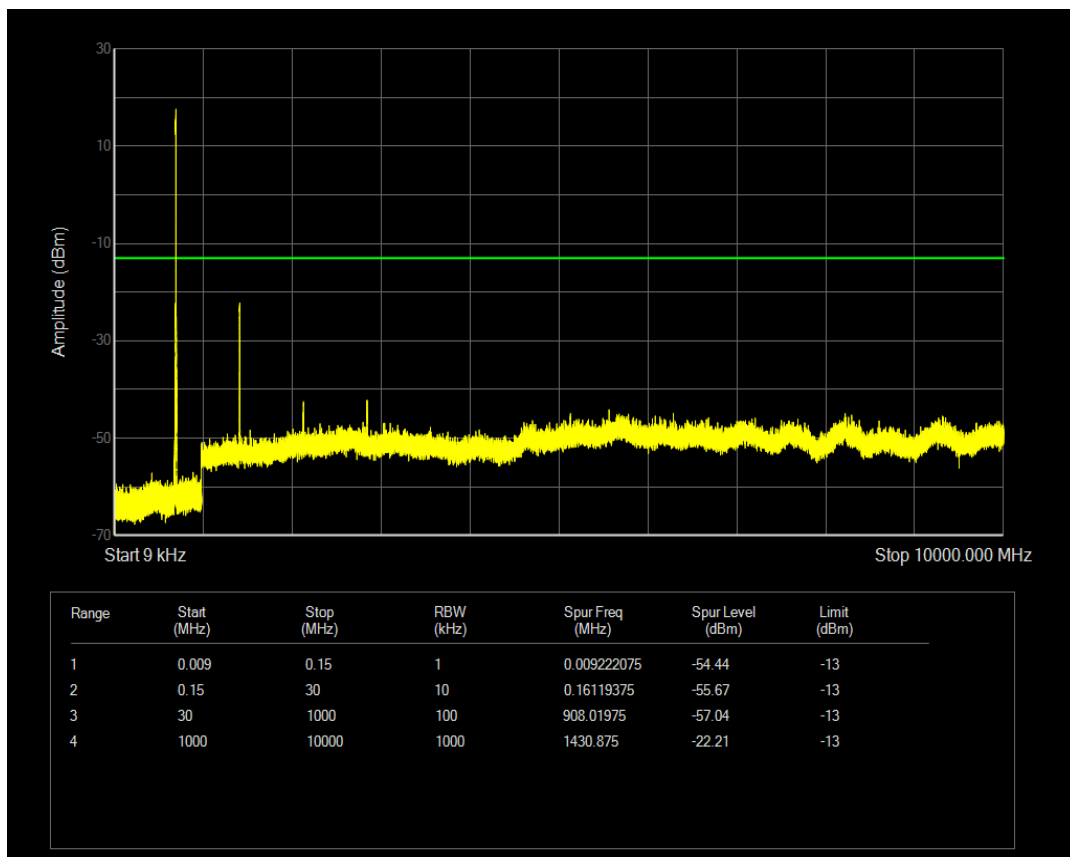
Band12 QAM16 BW=3MHz Channel=23095 RB Size=15 Position=#0



Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

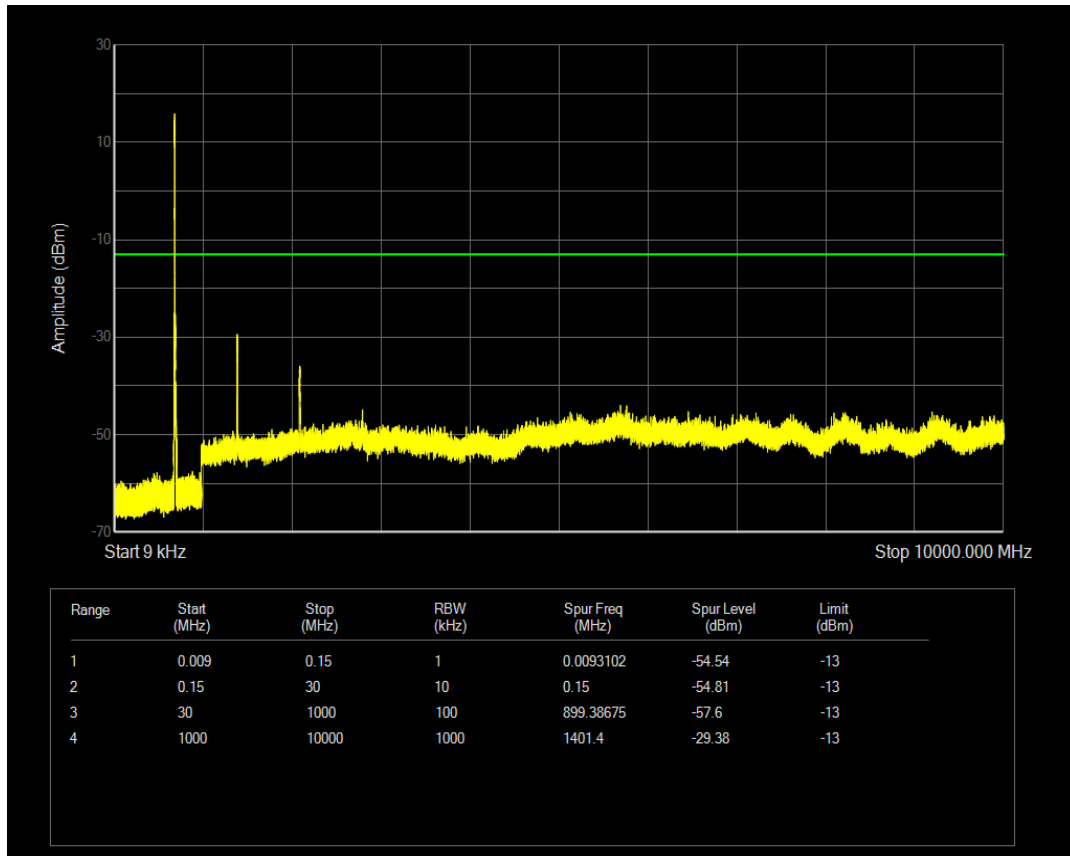


Band12 QAM16 BW=3MHz Channel=23165 RB Size=15 Position=#0

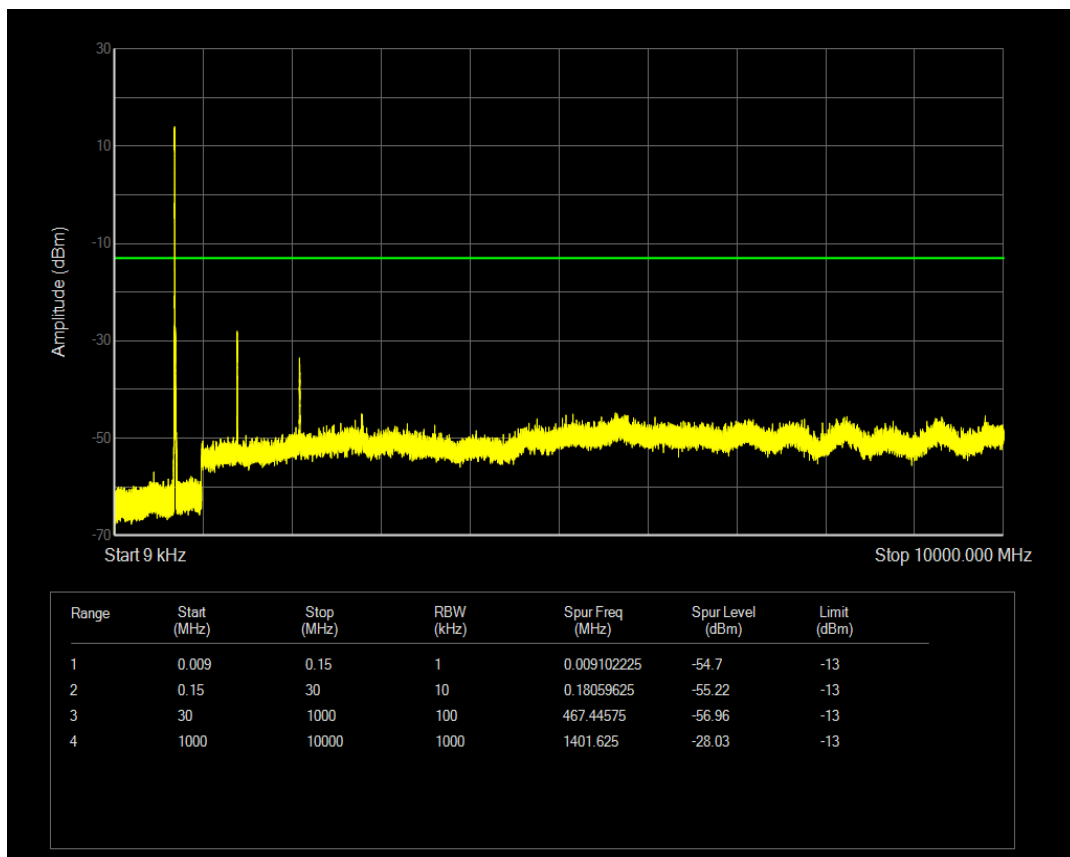


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

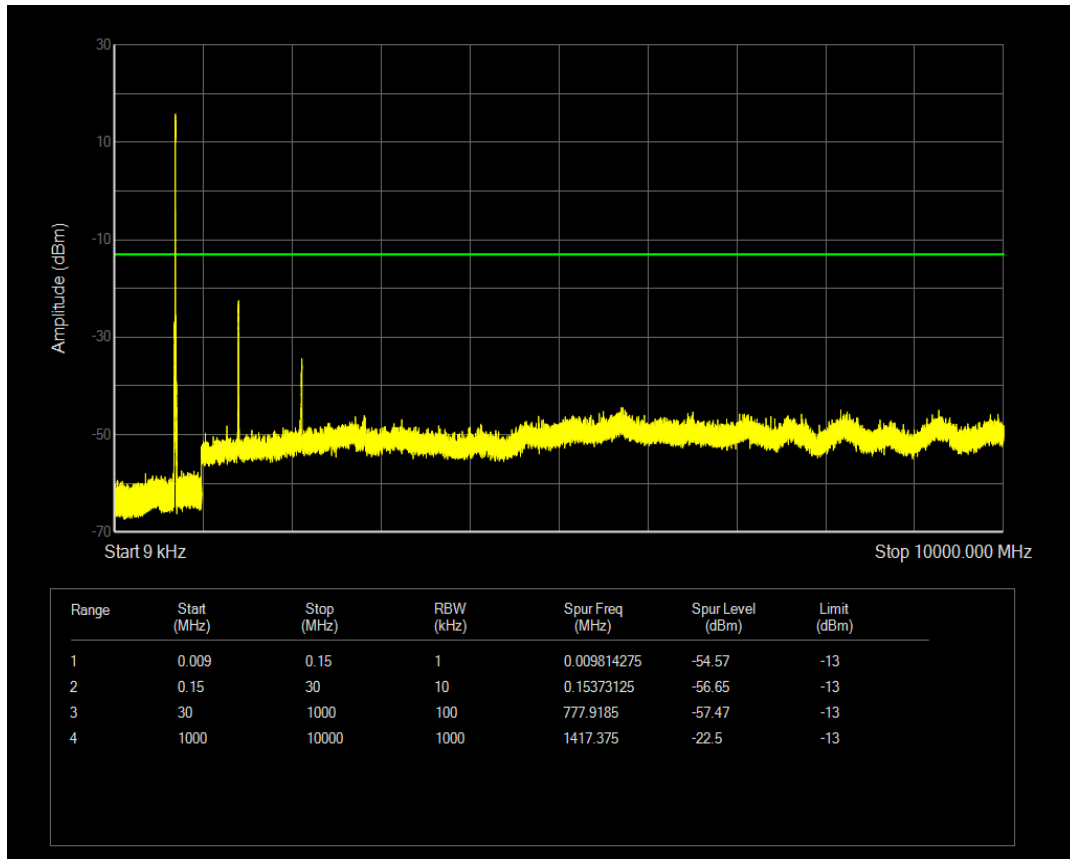




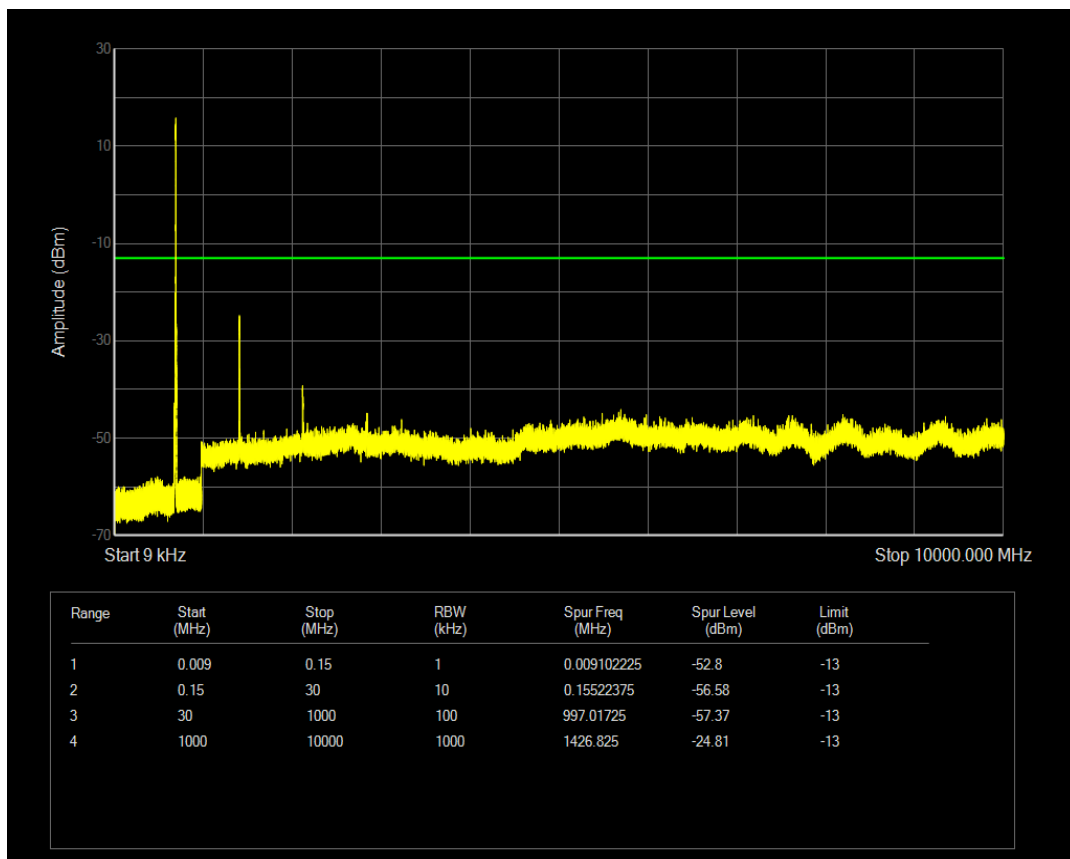
Band12 QAM16 BW=5MHz Channel=23035 RB Size=25 Position=#0



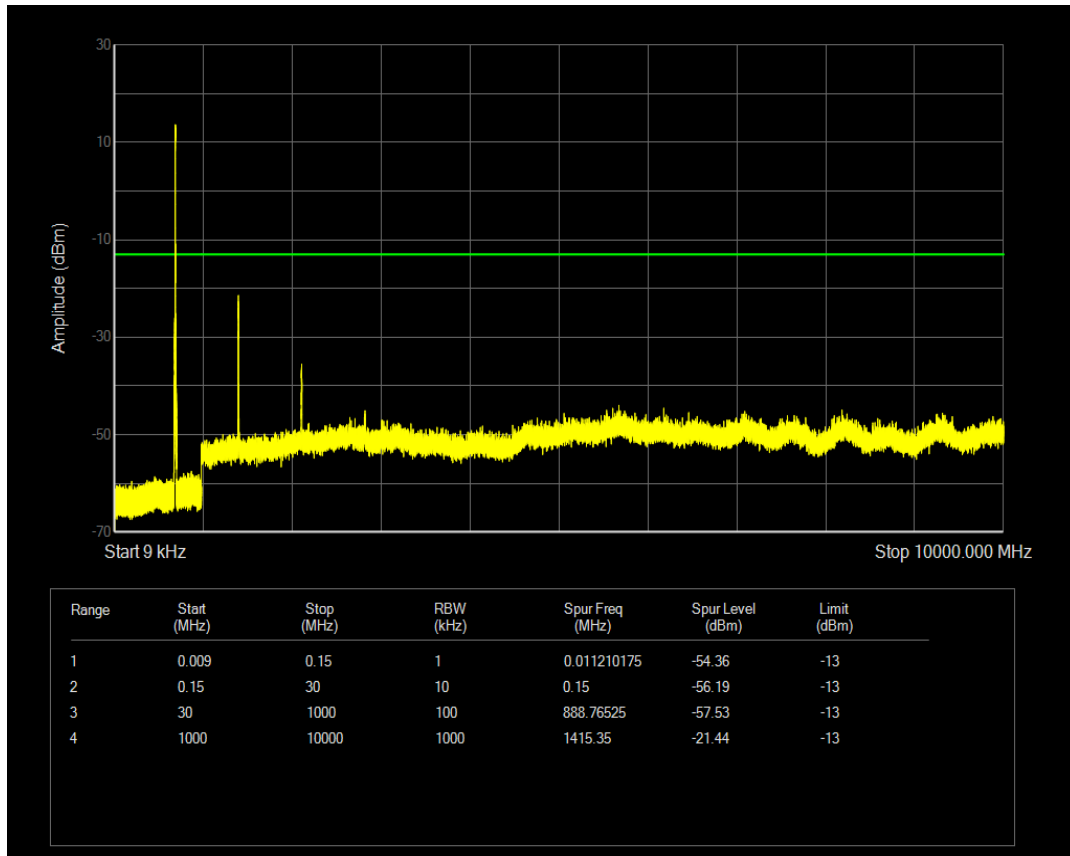
Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



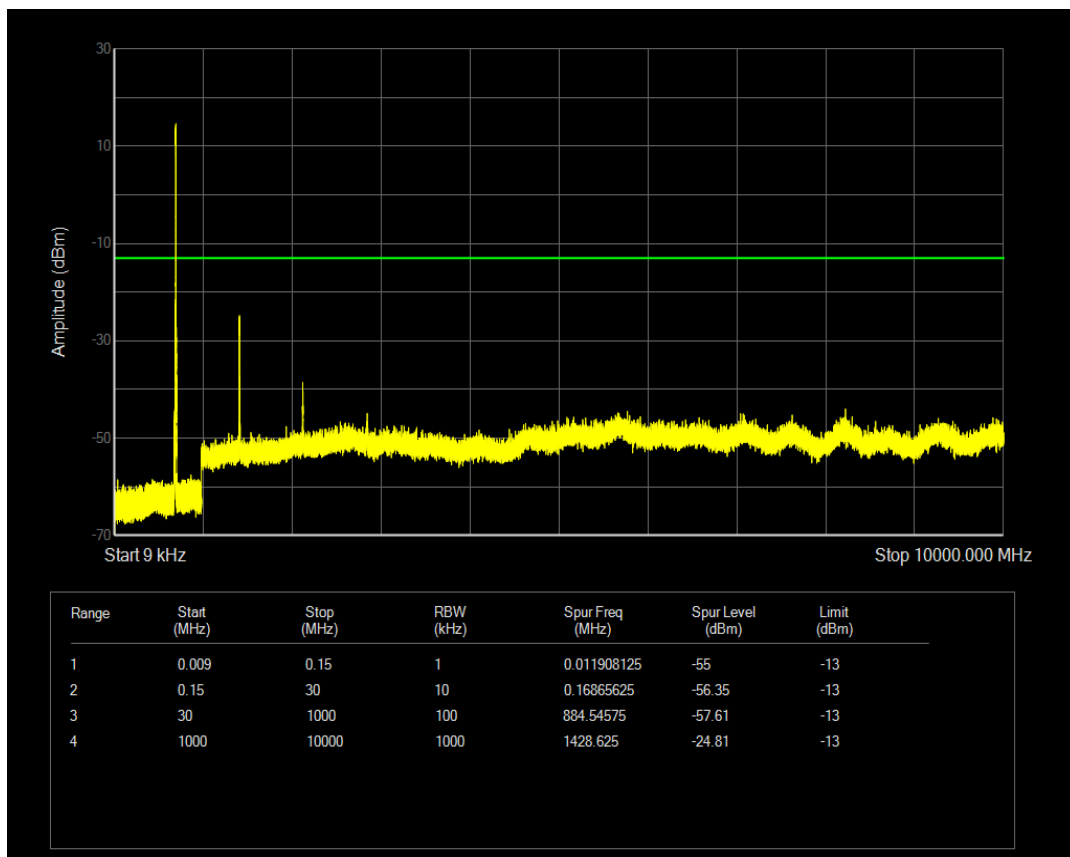
Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



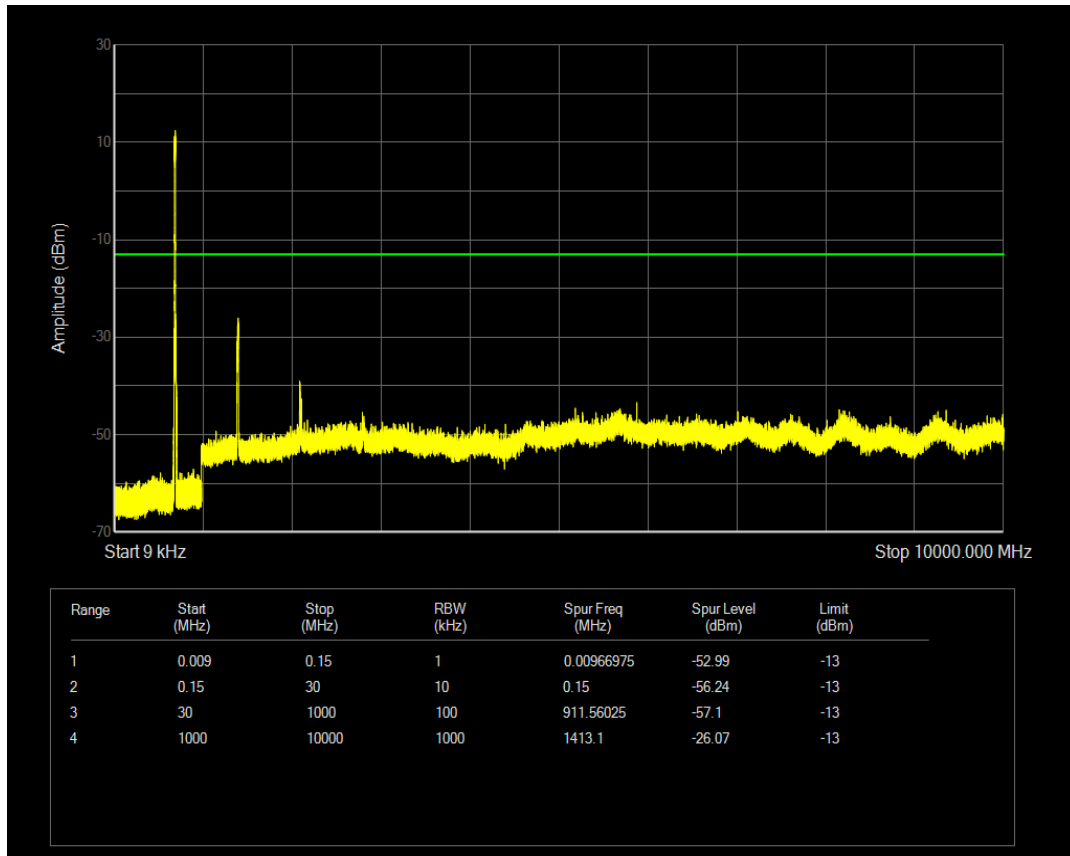
Band12 QAM16 BW=5MHz Channel=23095 RB Size=25 Position=#0



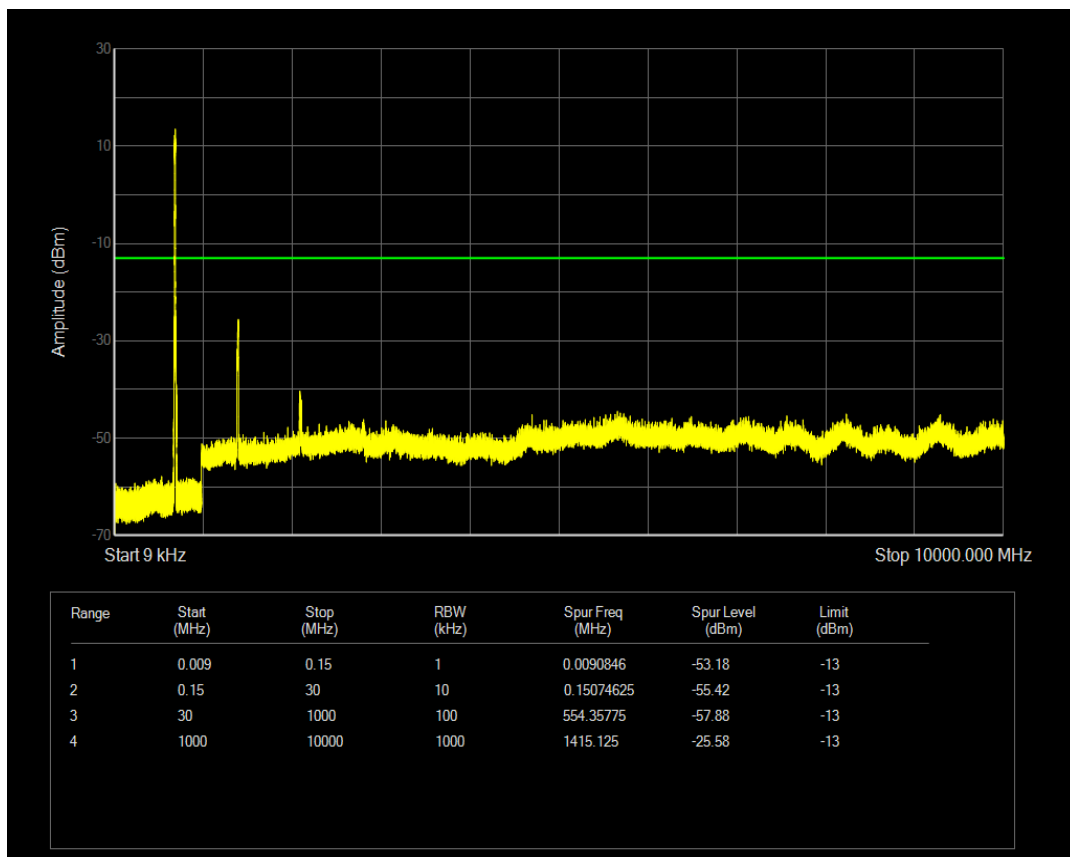
Band12 QAM16 BW=5MHz Channel=23155 RB Size=25 Position=#0



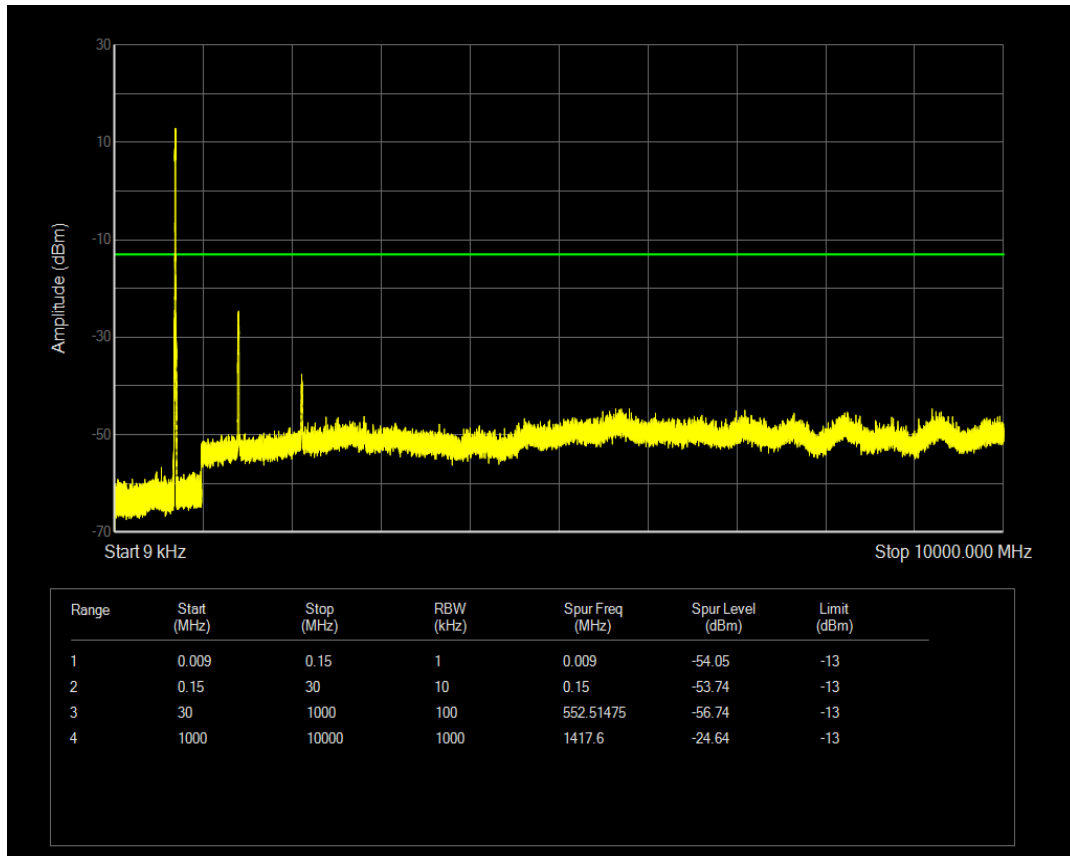
Band12 QAM16 BW=10MHz Channel=23060 RB Size=50 Position=#0



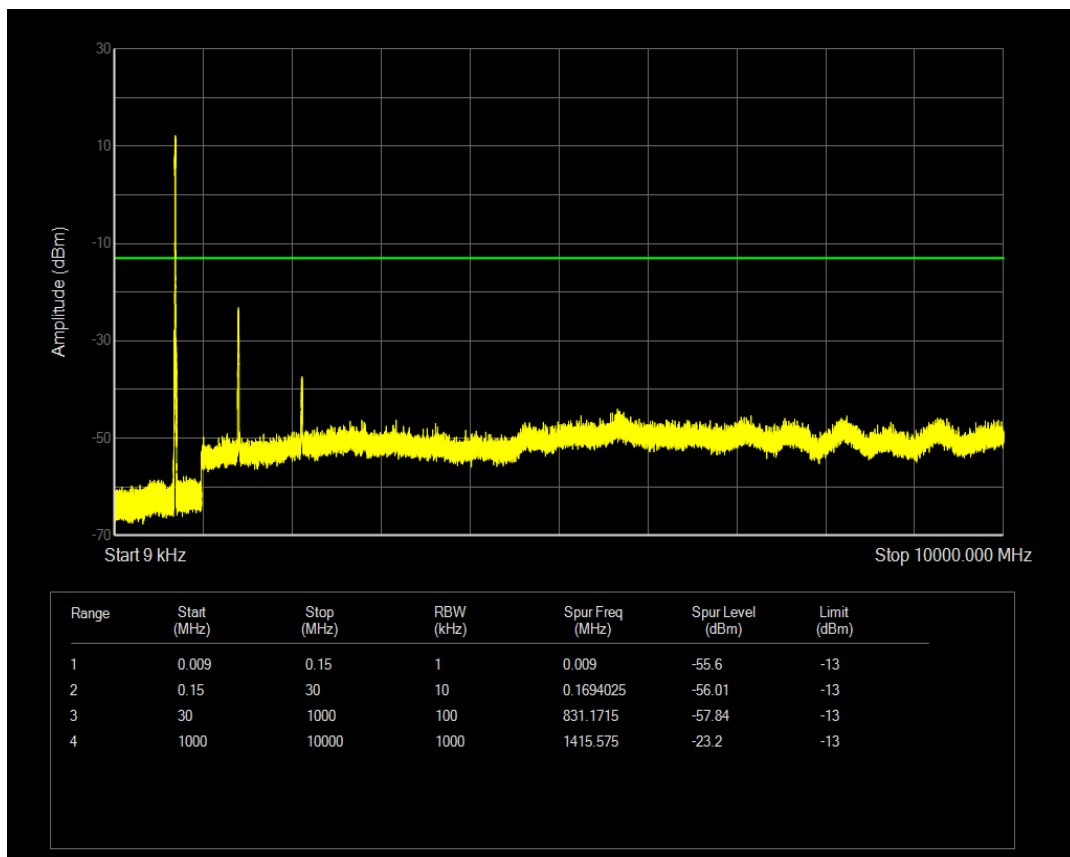
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



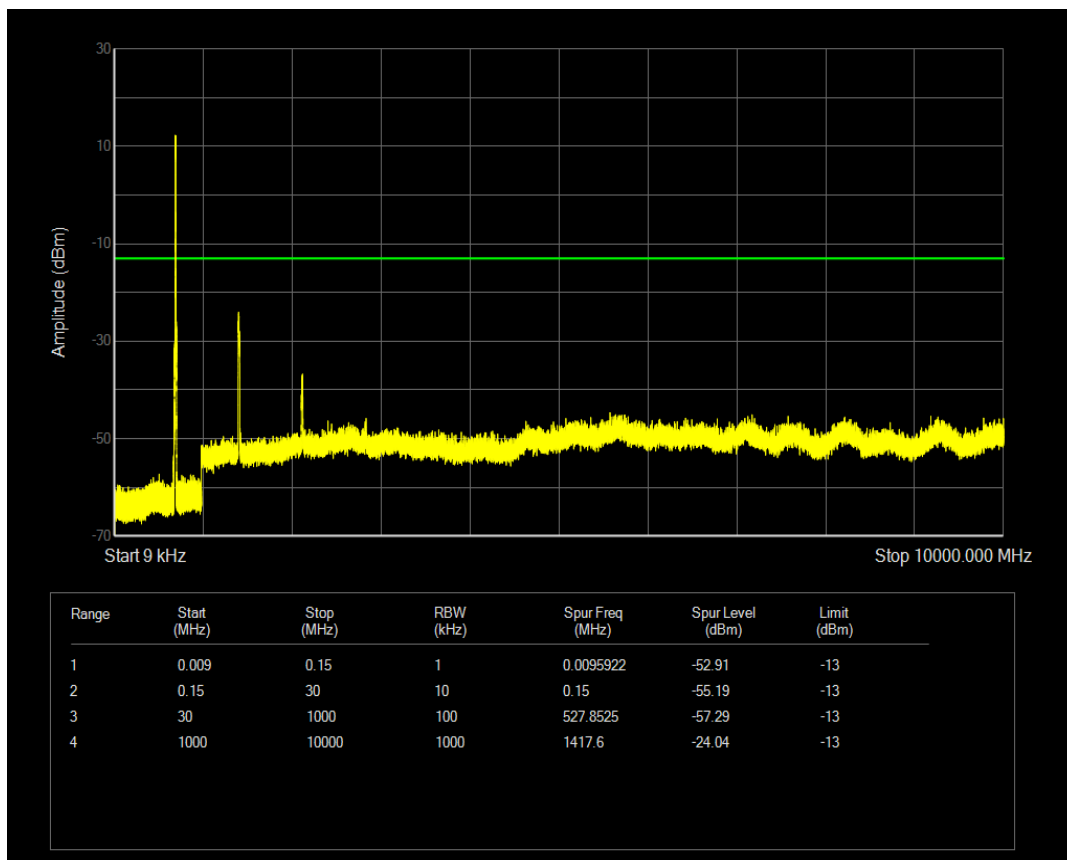
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



Band12 QAM16 BW=10MHz Channel=23095 RB Size=50 Position=#0



Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Band12 QAM16 BW=10MHz Channel=23130 RB Size=50 Position=#0

