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Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Power (dBm)</i>	<i>Gain (dBm)</i>	<i>ERP (dBm)</i>	<i>Verdict</i>
Band12	1.4	23017	1	#0	QPSK	22.66	-6.4	14.11	PASS
Band12	1.4	23017	1	#Mid	QPSK	22.62	-6.4	14.07	PASS
Band12	1.4	23017	1	#Max	QPSK	22.37	-6.4	13.82	PASS
Band12	1.4	23017	3	#0	QPSK	22.48	-6.4	13.93	PASS
Band12	1.4	23017	3	#Mid	QPSK	22.45	-6.4	13.90	PASS
Band12	1.4	23017	3	#Max	QPSK	22.34	-6.4	13.79	PASS
Band12	1.4	23017	6	#0	QPSK	21.35	-6.4	12.80	PASS
Band12	1.4	23017	1	#0	16QAM	21.55	-6.4	13.00	PASS
Band12	1.4	23017	1	#Mid	16QAM	21.48	-6.4	12.93	PASS
Band12	1.4	23017	1	#Max	16QAM	21.32	-6.4	12.77	PASS
Band12	1.4	23017	3	#0	16QAM	21.55	-6.4	13.00	PASS
Band12	1.4	23017	3	#Mid	16QAM	21.52	-6.4	12.97	PASS
Band12	1.4	23017	3	#Max	16QAM	21.39	-6.4	12.84	PASS
Band12	1.4	23017	6	#0	16QAM	20.55	-6.4	12.00	PASS
Band12	1.4	23095	1	#0	QPSK	22.01	-6.4	13.46	PASS
Band12	1.4	23095	1	#Mid	QPSK	22.13	-6.4	13.58	PASS
Band12	1.4	23095	1	#Max	QPSK	22.25	-6.4	13.70	PASS
Band12	1.4	23095	3	#0	QPSK	22.06	-6.4	13.51	PASS
Band12	1.4	23095	3	#Mid	QPSK	22.09	-6.4	13.54	PASS
Band12	1.4	23095	3	#Max	QPSK	22.19	-6.4	13.64	PASS
Band12	1.4	23095	6	#0	QPSK	21.01	-6.4	12.46	PASS
Band12	1.4	23095	1	#0	16QAM	21.04	-6.4	12.49	PASS
Band12	1.4	23095	1	#Mid	16QAM	21.12	-6.4	12.57	PASS
Band12	1.4	23095	1	#Max	16QAM	21.32	-6.4	12.77	PASS
Band12	1.4	23095	3	#0	16QAM	21.13	-6.4	12.58	PASS
Band12	1.4	23095	3	#Mid	16QAM	21.19	-6.4	12.64	PASS
Band12	1.4	23095	3	#Max	16QAM	21.30	-6.4	12.75	PASS
Band12	1.4	23095	6	#0	16QAM	20.22	-6.4	11.67	PASS
Band12	1.4	23173	1	#0	QPSK	22.43	-6.4	13.88	PASS
Band12	1.4	23173	1	#Mid	QPSK	22.32	-6.4	13.77	PASS
Band12	1.4	23173	1	#Max	QPSK	21.93	-6.4	13.38	PASS
Band12	1.4	23173	3	#0	QPSK	22.30	-6.4	13.75	PASS
Band12	1.4	23173	3	#Mid	QPSK	22.22	-6.4	13.67	PASS
Band12	1.4	23173	3	#Max	QPSK	22.02	-6.4	13.47	PASS
Band12	1.4	23173	6	#0	QPSK	21.25	-6.4	12.70	PASS
Band12	1.4	23173	1	#0	16QAM	21.13	-6.4	12.58	PASS
Band12	1.4	23173	1	#Mid	16QAM	21.17	-6.4	12.62	PASS

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Band12	1.4	23173	1	#Max	16QAM	20.88	-6.4	12.33	PASS
Band12	1.4	23173	3	#0	16QAM	21.40	-6.4	12.85	PASS
Band12	1.4	23173	3	#Mid	16QAM	21.42	-6.4	12.87	PASS
Band12	1.4	23173	3	#Max	16QAM	21.27	-6.4	12.72	PASS
Band12	1.4	23173	6	#0	16QAM	20.47	-6.4	11.92	PASS
Band12	3	23025	1	#0	QPSK	22.40	-6.4	13.85	PASS
Band12	3	23025	1	#Mid	QPSK	22.06	-6.4	13.51	PASS
Band12	3	23025	1	#Max	QPSK	21.66	-6.4	13.11	PASS
Band12	3	23025	8	#0	QPSK	21.20	-6.4	12.65	PASS
Band12	3	23025	8	#Mid	QPSK	21.06	-6.4	12.51	PASS
Band12	3	23025	8	#Max	QPSK	20.82	-6.4	12.27	PASS
Band12	3	23025	15	#0	QPSK	21.00	-6.4	12.45	PASS
Band12	3	23025	1	#0	16QAM	21.62	-6.4	13.07	PASS
Band12	3	23025	1	#Mid	16QAM	21.33	-6.4	12.78	PASS
Band12	3	23025	1	#Max	16QAM	20.91	-6.4	12.36	PASS
Band12	3	23025	8	#0	16QAM	20.27	-6.4	11.72	PASS
Band12	3	23025	8	#Mid	16QAM	20.13	-6.4	11.58	PASS
Band12	3	23025	8	#Max	16QAM	19.95	-6.4	11.40	PASS
Band12	3	23025	15	#0	16QAM	20.11	-6.4	11.56	PASS
Band12	3	23095	1	#0	QPSK	21.76	-6.4	13.21	PASS
Band12	3	23095	1	#Mid	QPSK	22.10	-6.4	13.55	PASS
Band12	3	23095	1	#Max	QPSK	22.43	-6.4	13.88	PASS
Band12	3	23095	8	#0	QPSK	20.84	-6.4	12.29	PASS
Band12	3	23095	8	#Mid	QPSK	20.98	-6.4	12.43	PASS
Band12	3	23095	8	#Max	QPSK	21.19	-6.4	12.64	PASS
Band12	3	23095	15	#0	QPSK	21.02	-6.4	12.47	PASS
Band12	3	23095	1	#0	16QAM	20.82	-6.4	12.27	PASS
Band12	3	23095	1	#Mid	16QAM	21.19	-6.4	12.64	PASS
Band12	3	23095	1	#Max	16QAM	21.50	-6.4	12.95	PASS
Band12	3	23095	8	#0	16QAM	19.92	-6.4	11.37	PASS
Band12	3	23095	8	#Mid	16QAM	20.09	-6.4	11.54	PASS
Band12	3	23095	8	#Max	16QAM	20.26	-6.4	11.71	PASS
Band12	3	23095	15	#0	16QAM	20.07	-6.4	11.52	PASS
Band12	3	23165	1	#0	QPSK	22.10	-6.4	13.55	PASS
Band12	3	23165	1	#Mid	QPSK	22.30	-6.4	13.75	PASS
Band12	3	23165	1	#Max	QPSK	21.92	-6.4	13.37	PASS
Band12	3	23165	8	#0	QPSK	21.19	-6.4	12.64	PASS
Band12	3	23165	8	#Mid	QPSK	21.26	-6.4	12.71	PASS
Band12	3	23165	8	#Max	QPSK	21.29	-6.4	12.74	PASS
Band12	3	23165	15	#0	QPSK	21.21	-6.4	12.66	PASS
Band12	3	23165	1	#0	16QAM	20.85	-6.4	12.30	PASS
Band12	3	23165	1	#Mid	16QAM	21.10	-6.4	12.55	PASS
Band12	3	23165	1	#Max	16QAM	20.81	-6.4	12.26	PASS
Band12	3	23165	8	#0	16QAM	20.21	-6.4	11.66	PASS

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Band12	3	23165	8	#Mid	16QAM	20.28	-6.4	11.73	PASS
Band12	3	23165	8	#Max	16QAM	20.29	-6.4	11.74	PASS
Band12	3	23165	15	#0	16QAM	20.30	-6.4	11.75	PASS
Band12	5	23035	1	#0	QPSK	22.39	-6.4	13.84	PASS
Band12	5	23035	1	#Mid	QPSK	21.84	-6.4	13.29	PASS
Band12	5	23035	1	#Max	QPSK	21.51	-6.4	12.96	PASS
Band12	5	23035	12	#0	QPSK	20.96	-6.4	12.41	PASS
Band12	5	23035	12	#Mid	QPSK	20.74	-6.4	12.19	PASS
Band12	5	23035	12	#Max	QPSK	20.47	-6.4	11.92	PASS
Band12	5	23035	25	#0	QPSK	20.73	-6.4	12.18	PASS
Band12	5	23035	1	#0	16QAM	21.72	-6.4	13.17	PASS
Band12	5	23035	1	#Mid	16QAM	21.16	-6.4	12.61	PASS
Band12	5	23035	1	#Max	16QAM	20.99	-6.4	12.44	PASS
Band12	5	23035	12	#0	16QAM	20.04	-6.4	11.49	PASS
Band12	5	23035	12	#Mid	16QAM	19.87	-6.4	11.32	PASS
Band12	5	23035	12	#Max	16QAM	19.61	-6.4	11.06	PASS
Band12	5	23035	25	#0	16QAM	19.83	-6.4	11.28	PASS
Band12	5	23095	1	#0	QPSK	21.67	-6.4	13.12	PASS
Band12	5	23095	1	#Mid	QPSK	22.13	-6.4	13.58	PASS
Band12	5	23095	1	#Max	QPSK	22.84	-6.4	14.29	PASS
Band12	5	23095	12	#0	QPSK	20.69	-6.4	12.14	PASS
Band12	5	23095	12	#Mid	QPSK	21.01	-6.4	12.46	PASS
Band12	5	23095	12	#Max	QPSK	21.36	-6.4	12.81	PASS
Band12	5	23095	25	#0	QPSK	21.05	-6.4	12.50	PASS
Band12	5	23095	1	#0	16QAM	20.88	-6.4	12.33	PASS
Band12	5	23095	1	#Mid	16QAM	21.29	-6.4	12.74	PASS
Band12	5	23095	1	#Max	16QAM	22.10	-6.4	13.55	PASS
Band12	5	23095	12	#0	16QAM	19.75	-6.4	11.20	PASS
Band12	5	23095	12	#Mid	16QAM	20.06	-6.4	11.51	PASS
Band12	5	23095	12	#Max	16QAM	20.40	-6.4	11.85	PASS
Band12	5	23095	25	#0	16QAM	20.14	-6.4	11.59	PASS
Band12	5	23155	1	#0	QPSK	22.62	-6.4	14.07	PASS
Band12	5	23155	1	#Mid	QPSK	22.18	-6.4	13.63	PASS
Band12	5	23155	1	#Max	QPSK	21.95	-6.4	13.40	PASS
Band12	5	23155	12	#0	QPSK	21.26	-6.4	12.71	PASS
Band12	5	23155	12	#Mid	QPSK	21.20	-6.4	12.65	PASS
Band12	5	23155	12	#Max	QPSK	21.22	-6.4	12.67	PASS
Band12	5	23155	25	#0	QPSK	21.20	-6.4	12.65	PASS
Band12	5	23155	1	#0	16QAM	21.87	-6.4	13.32	PASS
Band12	5	23155	1	#Mid	16QAM	21.40	-6.4	12.85	PASS
Band12	5	23155	1	#Max	16QAM	21.38	-6.4	12.83	PASS
Band12	5	23155	12	#0	16QAM	20.33	-6.4	11.78	PASS
Band12	5	23155	12	#Mid	16QAM	20.31	-6.4	11.76	PASS
Band12	5	23155	12	#Max	16QAM	20.28	-6.4	11.73	PASS

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Band12	5	23155	25	#0	16QAM	20.27	-6.4	11.72	PASS
Band12	10	23060	1	#0	QPSK	22.31	-6.4	13.76	PASS
Band12	10	23060	1	#Mid	QPSK	21.53	-6.4	12.98	PASS
Band12	10	23060	1	#Max	QPSK	22.31	-6.4	13.76	PASS
Band12	10	23060	25	#0	QPSK	20.53	-6.4	11.98	PASS
Band12	10	23060	25	#Mid	QPSK	20.53	-6.4	11.98	PASS
Band12	10	23060	25	#Max	QPSK	20.64	-6.4	12.09	PASS
Band12	10	23060	50	#0	QPSK	20.60	-6.4	12.05	PASS
Band12	10	23095	1	#0	QPSK	21.50	-6.4	12.95	PASS
Band12	10	23095	1	#Mid	QPSK	22.06	-6.4	13.51	PASS
Band12	10	23095	1	#Max	QPSK	22.39	-6.4	13.84	PASS
Band12	10	23095	25	#0	QPSK	20.47	-6.4	11.92	PASS
Band12	10	23095	25	#Mid	QPSK	21.03	-6.4	12.48	PASS
Band12	10	23095	25	#Max	QPSK	21.36	-6.4	12.81	PASS
Band12	10	23095	50	#0	QPSK	20.95	-6.4	12.40	PASS
Band12	10	23130	1	#0	QPSK	21.90	-6.4	13.35	PASS
Band12	10	23130	1	#Mid	QPSK	22.76	-6.4	14.21	PASS
Band12	10	23130	1	#Max	QPSK	22.22	-6.4	13.67	PASS
Band12	10	23130	25	#0	QPSK	21.26	-6.4	12.71	PASS
Band12	10	23130	25	#Mid	QPSK	21.55	-6.4	13.00	PASS
Band12	10	23130	25	#Max	QPSK	21.12	-6.4	12.57	PASS
Band12	10	23130	50	#0	QPSK	21.23	-6.4	12.68	PASS

Appendix 2.Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band12	1.4	23017	6	#0	QPSK	LV	NT	-15.52	-0.022	PASS
Band12	1.4	23017	6	#0	QPSK	NV	NT	-14.03	-0.020	PASS
Band12	1.4	23017	6	#0	QPSK	HV	NT	-18.61	-0.027	PASS
Band12	1.4	23017	6	#0	16QAM	LV	NT	5.92	0.008	PASS
Band12	1.4	23017	6	#0	16QAM	NV	NT	9.64	0.014	PASS
Band12	1.4	23017	6	#0	16QAM	HV	NT	8.83	0.013	PASS
Band12	1.4	23095	6	#0	QPSK	LV	NT	-8.05	-0.011	PASS
Band12	1.4	23095	6	#0	QPSK	NV	NT	-17.15	-0.024	PASS
Band12	1.4	23095	6	#0	QPSK	HV	NT	2.07	0.003	PASS
Band12	1.4	23095	6	#0	16QAM	LV	NT	13.06	0.018	PASS
Band12	1.4	23095	6	#0	16QAM	NV	NT	22.96	0.032	PASS
Band12	1.4	23095	6	#0	16QAM	HV	NT	2.93	0.004	PASS
Band12	1.4	23173	6	#0	QPSK	LV	NT	0.00	0.000	PASS
Band12	1.4	23173	6	#0	QPSK	NV	NT	0.00	0.000	PASS
Band12	1.4	23173	6	#0	QPSK	HV	NT	0.00	0.000	PASS
Band12	1.4	23173	6	#0	16QAM	LV	NT	0.00	0.000	PASS
Band12	1.4	23173	6	#0	16QAM	NV	NT	0.00	0.000	PASS
Band12	1.4	23173	6	#0	16QAM	HV	NT	0.00	0.000	PASS
Band12	3	23025	15	#0	QPSK	LV	NT	-18.18	-0.026	PASS
Band12	3	23025	15	#0	QPSK	NV	NT	-5.26	-0.008	PASS
Band12	3	23025	15	#0	QPSK	HV	NT	-16.87	-0.024	PASS
Band12	3	23025	15	#0	16QAM	LV	NT	0.19	0.000	PASS
Band12	3	23025	15	#0	16QAM	NV	NT	16.87	0.024	PASS
Band12	3	23025	15	#0	16QAM	HV	NT	9.63	0.014	PASS
Band12	3	23095	15	#0	QPSK	LV	NT	-10.24	-0.014	PASS
Band12	3	23095	15	#0	QPSK	NV	NT	3.19	0.005	PASS
Band12	3	23095	15	#0	QPSK	HV	NT	10.56	0.015	PASS
Band12	3	23095	15	#0	16QAM	LV	NT	1.57	0.002	PASS
Band12	3	23095	15	#0	16QAM	NV	NT	16.97	0.024	PASS
Band12	3	23095	15	#0	16QAM	HV	NT	13.86	0.020	PASS
Band12	3	23165	15	#0	QPSK	LV	NT	-6.25	-0.009	PASS
Band12	3	23165	15	#0	QPSK	NV	NT	-4.46	-0.006	PASS
Band12	3	23165	15	#0	QPSK	HV	NT	7.08	0.010	PASS
Band12	3	23165	15	#0	16QAM	LV	NT	9.48	0.013	PASS
Band12	3	23165	15	#0	16QAM	NV	NT	17.95	0.025	PASS
Band12	3	23165	15	#0	16QAM	HV	NT	5.26	0.007	PASS
Band12	5	23035	25	#0	QPSK	LV	NT	-16.62	-0.024	PASS
Band12	5	23035	25	#0	QPSK	NV	NT	-18.51	-0.026	PASS
Band12	5	23035	25	#0	QPSK	HV	NT	2.22	0.003	PASS
Band12	5	23035	25	#0	16QAM	LV	NT	18.85	0.027	PASS

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Band12	5	23035	25	#0	16QAM	NV	NT	13.23	0.019	PASS
Band12	5	23035	25	#0	16QAM	HV	NT	12.60	0.018	PASS
Band12	5	23095	25	#0	QPSK	LV	NT	-4.18	-0.006	PASS
Band12	5	23095	25	#0	QPSK	NV	NT	0.26	0.000	PASS
Band12	5	23095	25	#0	QPSK	HV	NT	7.30	0.010	PASS
Band12	5	23095	25	#0	16QAM	LV	NT	11.59	0.016	PASS
Band12	5	23095	25	#0	16QAM	NV	NT	2.06	0.003	PASS
Band12	5	23095	25	#0	16QAM	HV	NT	16.18	0.023	PASS
Band12	5	23155	25	#0	QPSK	LV	NT	-16.92	-0.024	PASS
Band12	5	23155	25	#0	QPSK	NV	NT	-16.97	-0.024	PASS
Band12	5	23155	25	#0	QPSK	HV	NT	-13.45	-0.019	PASS
Band12	5	23155	25	#0	16QAM	LV	NT	14.73	0.021	PASS
Band12	5	23155	25	#0	16QAM	NV	NT	1.56	0.002	PASS
Band12	5	23155	25	#0	16QAM	HV	NT	12.55	0.018	PASS
Band12	10	23060	50	#0	QPSK	LV	NT	-14.61	-0.021	PASS
Band12	10	23060	50	#0	QPSK	NV	NT	-6.74	-0.010	PASS
Band12	10	23060	50	#0	QPSK	HV	NT	-0.90	-0.001	PASS
Band12	10	23095	50	#0	QPSK	LV	NT	5.68	0.008	PASS
Band12	10	23095	50	#0	QPSK	NV	NT	13.72	0.019	PASS
Band12	10	23095	50	#0	QPSK	HV	NT	-4.99	-0.007	PASS
Band12	10	23130	50	#0	QPSK	LV	NT	1.87	0.003	PASS
Band12	10	23130	50	#0	QPSK	NV	NT	2.62	0.004	PASS
Band12	10	23130	50	#0	QPSK	HV	NT	15.22	0.021	PASS
Band12	1.4	23017	6	#0	QPSK	NV	-30	-4.78	-0.007	PASS
Band12	1.4	23017	6	#0	QPSK	NV	-20	-21.43	-0.031	PASS
Band12	1.4	23017	6	#0	QPSK	NV	0	-14.53	-0.021	PASS
Band12	1.4	23017	6	#0	QPSK	NV	10	2.75	0.004	PASS
Band12	1.4	23017	6	#0	QPSK	NV	20	-7.37	-0.011	PASS
Band12	1.4	23017	6	#0	QPSK	NV	30	-14.16	-0.020	PASS
Band12	1.4	23017	6	#0	QPSK	NV	40	-20.63	-0.029	PASS
Band12	1.4	23017	6	#0	QPSK	NV	50	-0.92	-0.001	PASS
Band12	1.4	23017	6	#0	16QAM	NV	-30	-6.09	-0.009	PASS
Band12	1.4	23017	6	#0	16QAM	NV	-20	-14.85	-0.021	PASS
Band12	1.4	23017	6	#0	16QAM	NV	0	-19.80	-0.028	PASS
Band12	1.4	23017	6	#0	16QAM	NV	10	5.51	0.008	PASS
Band12	1.4	23017	6	#0	16QAM	NV	20	-4.12	-0.006	PASS
Band12	1.4	23017	6	#0	16QAM	NV	30	-7.30	-0.010	PASS
Band12	1.4	23017	6	#0	16QAM	NV	40	0.39	0.001	PASS
Band12	1.4	23017	6	#0	16QAM	NV	50	-3.65	-0.005	PASS
Band12	1.4	23095	6	#0	QPSK	NV	-30	-7.85	-0.011	PASS
Band12	1.4	23095	6	#0	QPSK	NV	-20	-24.03	-0.034	PASS
Band12	1.4	23095	6	#0	QPSK	NV	0	-8.93	-0.013	PASS
Band12	1.4	23095	6	#0	QPSK	NV	10	-8.34	-0.012	PASS
Band12	1.4	23095	6	#0	QPSK	NV	20	-15.95	-0.023	PASS

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Band12	1.4	23095	6	#0	QPSK	NV	30	-20.16	-0.028	PASS
Band12	1.4	23095	6	#0	QPSK	NV	40	1.90	0.003	PASS
Band12	1.4	23095	6	#0	QPSK	NV	50	-1.27	-0.002	PASS
Band12	1.4	23095	6	#0	16QAM	NV	-30	-7.57	-0.011	PASS
Band12	1.4	23095	6	#0	16QAM	NV	-20	-1.89	-0.003	PASS
Band12	1.4	23095	6	#0	16QAM	NV	0	-8.77	-0.012	PASS
Band12	1.4	23095	6	#0	16QAM	NV	10	-8.97	-0.013	PASS
Band12	1.4	23095	6	#0	16QAM	NV	20	-16.51	-0.023	PASS
Band12	1.4	23095	6	#0	16QAM	NV	30	-15.26	-0.022	PASS
Band12	1.4	23095	6	#0	16QAM	NV	40	-20.30	-0.029	PASS
Band12	1.4	23095	6	#0	16QAM	NV	50	-17.82	-0.025	PASS
Band12	1.4	23173	6	#0	QPSK	NV	-30	1.77	0.002	PASS
Band12	1.4	23173	6	#0	QPSK	NV	-20	-9.76	-0.014	PASS
Band12	1.4	23173	6	#0	QPSK	NV	0	-8.30	-0.012	PASS
Band12	1.4	23173	6	#0	QPSK	NV	10	-13.32	-0.019	PASS
Band12	1.4	23173	6	#0	QPSK	NV	20	-7.27	-0.010	PASS
Band12	1.4	23173	6	#0	QPSK	NV	30	-16.12	-0.023	PASS
Band12	1.4	23173	6	#0	QPSK	NV	40	-14.19	-0.020	PASS
Band12	1.4	23173	6	#0	QPSK	NV	50	-22.60	-0.032	PASS
Band12	1.4	23173	6	#0	16QAM	NV	-30	-17.37	-0.024	PASS
Band12	1.4	23173	6	#0	16QAM	NV	-20	-17.29	-0.024	PASS
Band12	1.4	23173	6	#0	16QAM	NV	0	-15.94	-0.022	PASS
Band12	1.4	23173	6	#0	16QAM	NV	10	-19.04	-0.027	PASS
Band12	1.4	23173	6	#0	16QAM	NV	20	5.35	0.007	PASS
Band12	1.4	23173	6	#0	16QAM	NV	30	2.40	0.003	PASS
Band12	1.4	23173	6	#0	16QAM	NV	40	8.07	0.011	PASS
Band12	1.4	23173	6	#0	16QAM	NV	50	13.73	0.019	PASS
Band12	3	23025	15	#0	QPSK	NV	-30	-2.17	-0.003	PASS
Band12	3	23025	15	#0	QPSK	NV	-20	-18.01	-0.026	PASS
Band12	3	23025	15	#0	QPSK	NV	0	-5.56	-0.008	PASS
Band12	3	23025	15	#0	QPSK	NV	10	-10.21	-0.015	PASS
Band12	3	23025	15	#0	QPSK	NV	20	-15.49	-0.022	PASS
Band12	3	23025	15	#0	QPSK	NV	30	-16.44	-0.023	PASS
Band12	3	23025	15	#0	QPSK	NV	40	-13.12	-0.019	PASS
Band12	3	23025	15	#0	QPSK	NV	50	-9.54	-0.014	PASS
Band12	3	23025	15	#0	16QAM	NV	-30	-8.44	-0.012	PASS
Band12	3	23025	15	#0	16QAM	NV	-20	-11.03	-0.016	PASS
Band12	3	23025	15	#0	16QAM	NV	0	-11.79	-0.017	PASS
Band12	3	23025	15	#0	16QAM	NV	10	-7.54	-0.011	PASS
Band12	3	23025	15	#0	16QAM	NV	20	-8.50	-0.012	PASS
Band12	3	23025	15	#0	16QAM	NV	30	-5.49	-0.008	PASS
Band12	3	23025	15	#0	16QAM	NV	40	-6.59	-0.009	PASS
Band12	3	23025	15	#0	16QAM	NV	50	-3.05	-0.004	PASS
Band12	3	23095	15	#0	QPSK	NV	-30	-17.28	-0.024	PASS

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Band12	3	23095	15	#0	QPSK	NV	-20	-19.76	-0.028	PASS
Band12	3	23095	15	#0	QPSK	NV	0	-22.43	-0.032	PASS
Band12	3	23095	15	#0	QPSK	NV	10	-6.09	-0.009	PASS
Band12	3	23095	15	#0	QPSK	NV	20	3.85	0.005	PASS
Band12	3	23095	15	#0	QPSK	NV	30	-2.26	-0.003	PASS
Band12	3	23095	15	#0	QPSK	NV	40	-2.98	-0.004	PASS
Band12	3	23095	15	#0	QPSK	NV	50	-9.27	-0.013	PASS
Band12	3	23095	15	#0	16QAM	NV	-30	3.25	0.005	PASS
Band12	3	23095	15	#0	16QAM	NV	-20	1.96	0.003	PASS
Band12	3	23095	15	#0	16QAM	NV	0	0.67	0.001	PASS
Band12	3	23095	15	#0	16QAM	NV	10	-7.45	-0.011	PASS
Band12	3	23095	15	#0	16QAM	NV	20	-2.46	-0.003	PASS
Band12	3	23095	15	#0	16QAM	NV	30	-2.47	-0.003	PASS
Band12	3	23095	15	#0	16QAM	NV	40	0.03	0.000	PASS
Band12	3	23095	15	#0	16QAM	NV	50	-0.86	-0.001	PASS
Band12	3	23165	15	#0	QPSK	NV	-30	-19.58	-0.027	PASS
Band12	3	23165	15	#0	QPSK	NV	-20	4.89	0.007	PASS
Band12	3	23165	15	#0	QPSK	NV	0	-5.68	-0.008	PASS
Band12	3	23165	15	#0	QPSK	NV	10	5.74	0.008	PASS
Band12	3	23165	15	#0	QPSK	NV	20	2.56	0.004	PASS
Band12	3	23165	15	#0	QPSK	NV	30	-1.65	-0.002	PASS
Band12	3	23165	15	#0	QPSK	NV	40	-4.68	-0.007	PASS
Band12	3	23165	15	#0	QPSK	NV	50	5.25	0.007	PASS
Band12	3	23165	15	#0	16QAM	NV	-30	5.55	0.008	PASS
Band12	3	23165	15	#0	16QAM	NV	-20	7.54	0.011	PASS
Band12	3	23165	15	#0	16QAM	NV	0	14.72	0.021	PASS
Band12	3	23165	15	#0	16QAM	NV	10	17.08	0.024	PASS
Band12	3	23165	15	#0	16QAM	NV	20	16.95	0.024	PASS
Band12	3	23165	15	#0	16QAM	NV	30	15.89	0.022	PASS
Band12	3	23165	15	#0	16QAM	NV	40	10.84	0.015	PASS
Band12	3	23165	15	#0	16QAM	NV	50	11.22	0.016	PASS
Band12	5	23035	25	#0	QPSK	NV	-30	-21.79	-0.031	PASS
Band12	5	23035	25	#0	QPSK	NV	-20	-11.33	-0.016	PASS
Band12	5	23035	25	#0	QPSK	NV	0	-14.16	-0.020	PASS
Band12	5	23035	25	#0	QPSK	NV	10	-13.99	-0.020	PASS
Band12	5	23035	25	#0	QPSK	NV	20	-9.56	-0.014	PASS
Band12	5	23035	25	#0	QPSK	NV	30	-14.22	-0.020	PASS
Band12	5	23035	25	#0	QPSK	NV	40	-13.12	-0.019	PASS
Band12	5	23035	25	#0	QPSK	NV	50	-5.89	-0.008	PASS
Band12	5	23035	25	#0	16QAM	NV	-30	-5.04	-0.007	PASS
Band12	5	23035	25	#0	16QAM	NV	-20	-2.03	-0.003	PASS
Band12	5	23035	25	#0	16QAM	NV	0	-0.53	-0.001	PASS
Band12	5	23035	25	#0	16QAM	NV	10	-7.17	-0.010	PASS
Band12	5	23035	25	#0	16QAM	NV	20	-4.39	-0.006	PASS

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Band12	5	23035	25	#0	16QAM	NV	30	-6.15	-0.009	PASS
Band12	5	23035	25	#0	16QAM	NV	40	-5.55	-0.008	PASS
Band12	5	23035	25	#0	16QAM	NV	50	-7.40	-0.011	PASS
Band12	5	23095	25	#0	QPSK	NV	-30	-16.47	-0.023	PASS
Band12	5	23095	25	#0	QPSK	NV	-20	-18.20	-0.026	PASS
Band12	5	23095	25	#0	QPSK	NV	0	-16.19	-0.023	PASS
Band12	5	23095	25	#0	QPSK	NV	10	-19.40	-0.027	PASS
Band12	5	23095	25	#0	QPSK	NV	20	-14.93	-0.021	PASS
Band12	5	23095	25	#0	QPSK	NV	30	-17.31	-0.024	PASS
Band12	5	23095	25	#0	QPSK	NV	40	-17.09	-0.024	PASS
Band12	5	23095	25	#0	QPSK	NV	50	-14.82	-0.021	PASS
Band12	5	23095	25	#0	16QAM	NV	-30	-16.75	-0.024	PASS
Band12	5	23095	25	#0	16QAM	NV	-20	-9.87	-0.014	PASS
Band12	5	23095	25	#0	16QAM	NV	0	-9.96	-0.014	PASS
Band12	5	23095	25	#0	16QAM	NV	10	-10.43	-0.015	PASS
Band12	5	23095	25	#0	16QAM	NV	20	-9.03	-0.013	PASS
Band12	5	23095	25	#0	16QAM	NV	30	-3.32	-0.005	PASS
Band12	5	23095	25	#0	16QAM	NV	40	-5.52	-0.008	PASS
Band12	5	23095	25	#0	16QAM	NV	50	1.76	0.002	PASS
Band12	5	23155	25	#0	QPSK	NV	-30	-14.03	-0.020	PASS
Band12	5	23155	25	#0	QPSK	NV	-20	-22.39	-0.031	PASS
Band12	5	23155	25	#0	QPSK	NV	0	4.18	0.006	PASS
Band12	5	23155	25	#0	QPSK	NV	10	2.68	0.004	PASS
Band12	5	23155	25	#0	QPSK	NV	20	2.35	0.003	PASS
Band12	5	23155	25	#0	QPSK	NV	30	3.59	0.005	PASS
Band12	5	23155	25	#0	QPSK	NV	40	5.32	0.007	PASS
Band12	5	23155	25	#0	QPSK	NV	50	7.50	0.011	PASS
Band12	5	23155	25	#0	16QAM	NV	-30	14.41	0.020	PASS
Band12	5	23155	25	#0	16QAM	NV	-20	-10.81	-0.015	PASS
Band12	5	23155	25	#0	16QAM	NV	0	-15.26	-0.021	PASS
Band12	5	23155	25	#0	16QAM	NV	10	-9.04	-0.013	PASS
Band12	5	23155	25	#0	16QAM	NV	20	-12.83	-0.018	PASS
Band12	5	23155	25	#0	16QAM	NV	30	-14.82	-0.021	PASS
Band12	5	23155	25	#0	16QAM	NV	40	-16.04	-0.022	PASS
Band12	5	23155	25	#0	16QAM	NV	50	-2.63	-0.004	PASS
Band12	10	23060	50	#0	QPSK	NV	-30	-7.55	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	-20	-8.91	-0.013	PASS
Band12	10	23060	50	#0	QPSK	NV	0	-8.50	-0.012	PASS
Band12	10	23060	50	#0	QPSK	NV	10	-7.67	-0.011	PASS
Band12	10	23060	50	#0	QPSK	NV	20	-2.20	-0.003	PASS
Band12	10	23060	50	#0	QPSK	NV	30	-6.01	-0.009	PASS
Band12	10	23060	50	#0	QPSK	NV	40	2.53	0.004	PASS
Band12	10	23060	50	#0	QPSK	NV	50	-6.01	-0.009	PASS
Band12	10	23095	50	#0	QPSK	NV	-30	-20.13	-0.028	PASS

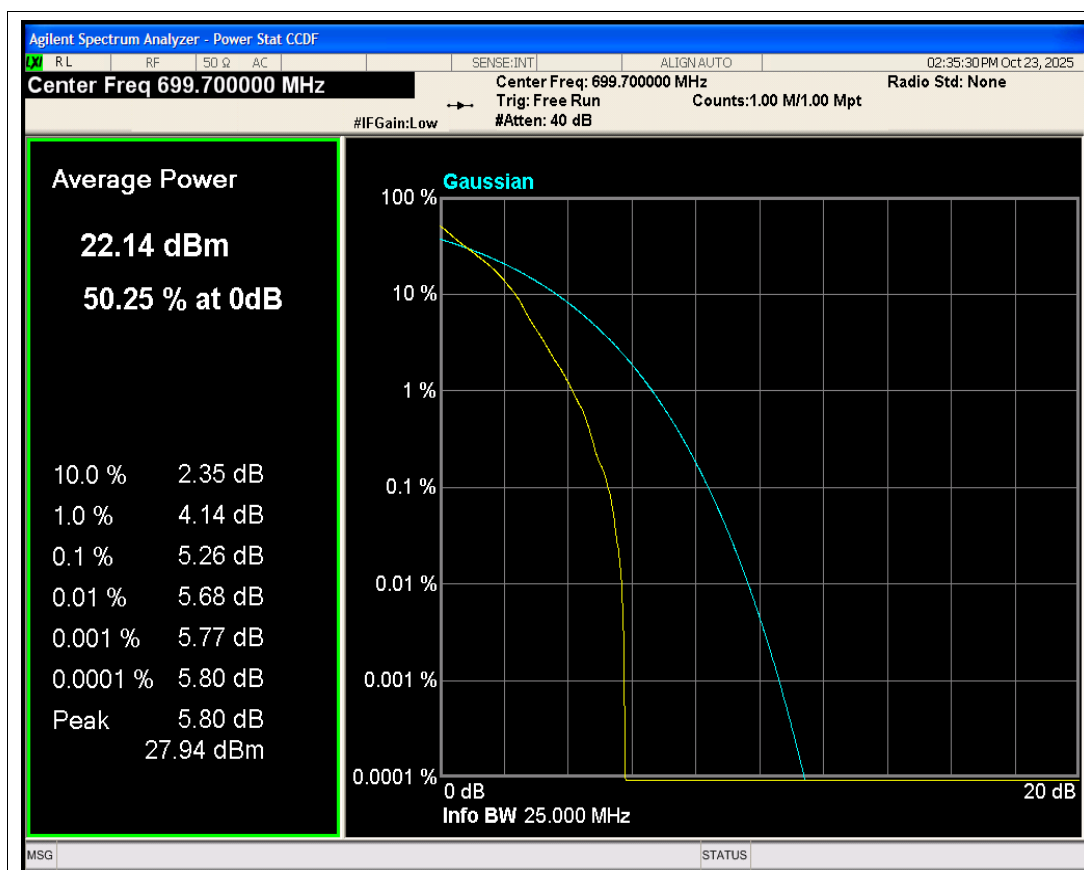
Report No.: STS2512370W01_Appendix LTE Band 12

Band12	10	23095	50	#0	QPSK	NV	-20	-18.40	-0.026	PASS
Band12	10	23095	50	#0	QPSK	NV	0	-16.04	-0.023	PASS
Band12	10	23095	50	#0	QPSK	NV	10	-17.65	-0.025	PASS
Band12	10	23095	50	#0	QPSK	NV	20	-15.75	-0.022	PASS
Band12	10	23095	50	#0	QPSK	NV	30	-12.83	-0.018	PASS
Band12	10	23095	50	#0	QPSK	NV	40	-7.07	-0.010	PASS
Band12	10	23095	50	#0	QPSK	NV	50	-4.82	-0.007	PASS
Band12	10	23130	50	#0	QPSK	NV	-30	-7.58	-0.011	PASS
Band12	10	23130	50	#0	QPSK	NV	-20	-0.03	0.000	PASS
Band12	10	23130	50	#0	QPSK	NV	0	3.59	0.005	PASS
Band12	10	23130	50	#0	QPSK	NV	10	5.24	0.007	PASS
Band12	10	23130	50	#0	QPSK	NV	20	1.60	0.002	PASS
Band12	10	23130	50	#0	QPSK	NV	30	0.63	0.001	PASS
Band12	10	23130	50	#0	QPSK	NV	40	14.18	0.020	PASS
Band12	10	23130	50	#0	QPSK	NV	50	9.94	0.014	PASS

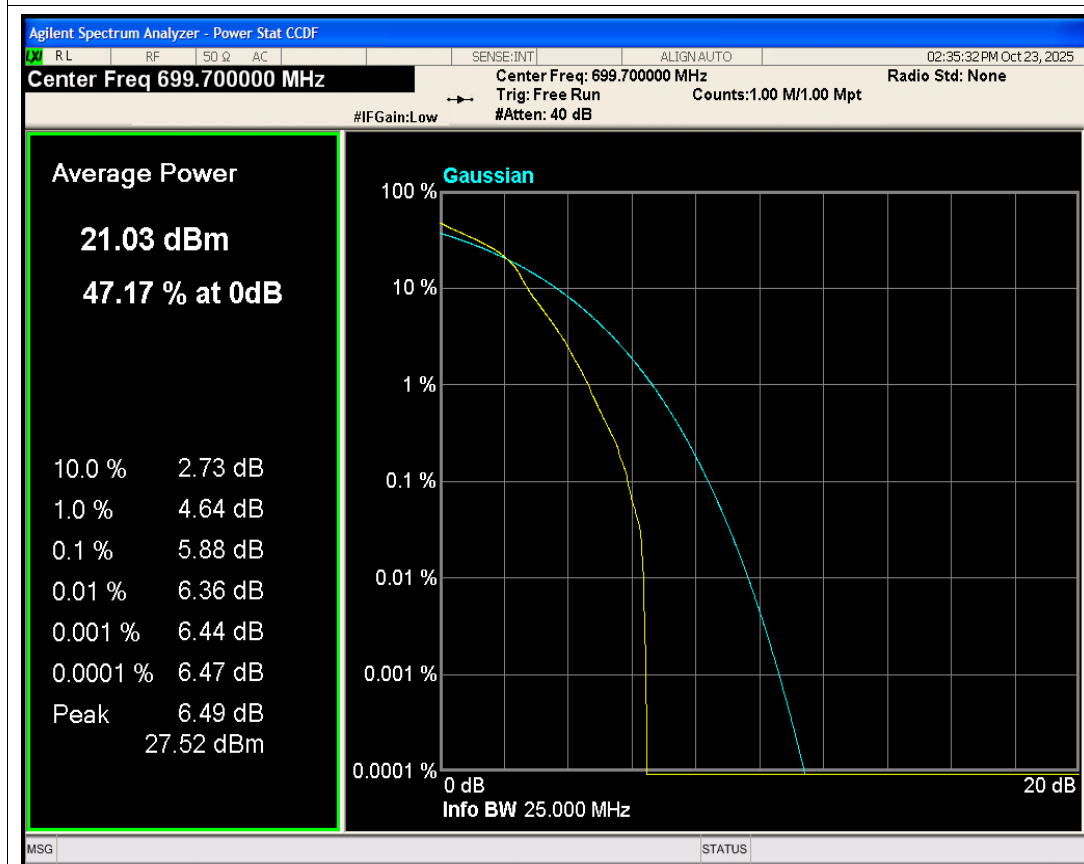
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band12	1.4	23017	1	#0	QPSK	5.26	13	PASS
Band12	1.4	23017	1	#0	16QAM	5.88	13	PASS
Band12	1.4	23095	1	#0	QPSK	5.23	13	PASS
Band12	1.4	23095	1	#0	16QAM	6.07	13	PASS
Band12	1.4	23173	1	#0	QPSK	5.01	13	PASS
Band12	1.4	23173	1	#0	16QAM	5.79	13	PASS
Band12	3	23025	1	#0	QPSK	5.10	13	PASS
Band12	3	23025	1	#0	16QAM	5.91	13	PASS
Band12	3	23095	1	#0	QPSK	5.31	13	PASS
Band12	3	23095	1	#0	16QAM	6.05	13	PASS
Band12	3	23165	1	#0	QPSK	4.62	13	PASS
Band12	3	23165	1	#0	16QAM	5.18	13	PASS
Band12	5	23035	1	#0	QPSK	5.33	13	PASS
Band12	5	23035	1	#0	16QAM	5.62	13	PASS
Band12	5	23095	1	#0	QPSK	5.01	13	PASS
Band12	5	23095	1	#0	16QAM	5.39	13	PASS
Band12	5	23155	1	#0	QPSK	4.14	13	PASS
Band12	5	23155	1	#0	16QAM	4.80	13	PASS
Band12	10	23060	1	#0	QPSK	5.08	13	PASS
Band12	10	23095	1	#0	QPSK	5.00	13	PASS
Band12	10	23130	1	#0	QPSK	4.97	13	PASS

Report No.: STS2512370W01_Appendix LTE Band 12

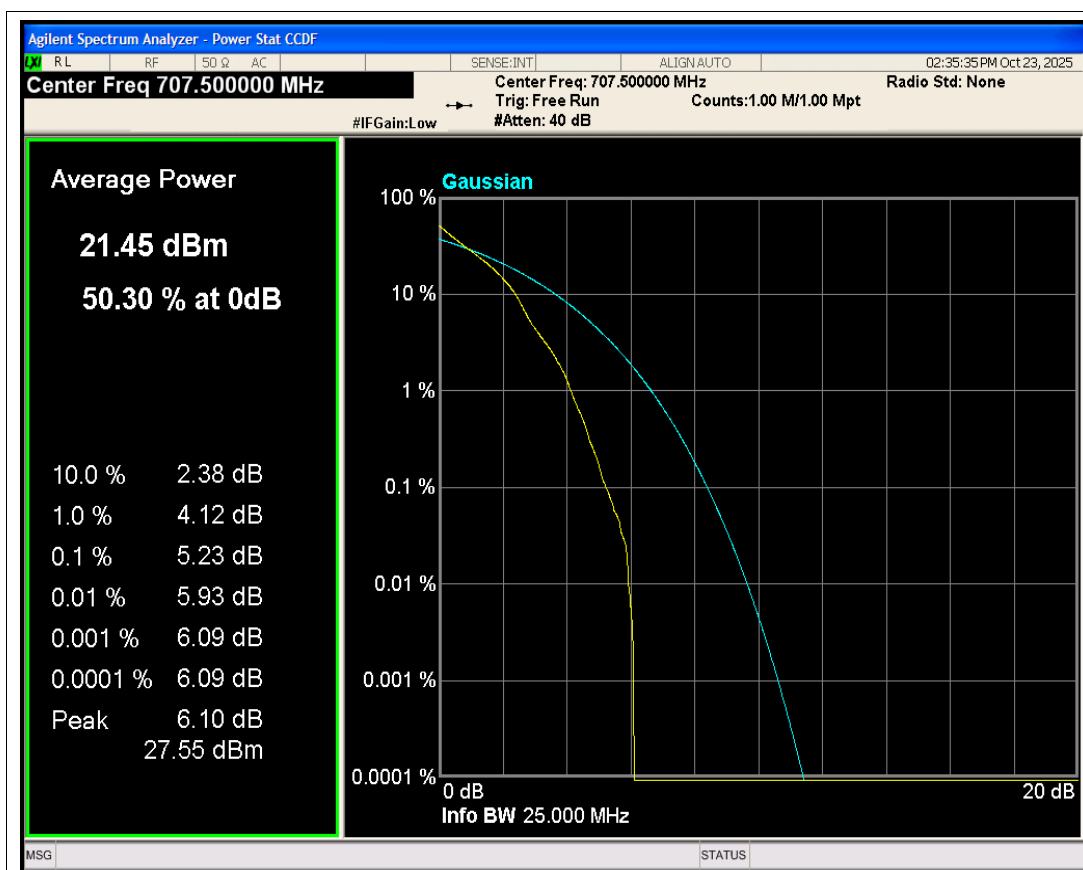


Band12 QPSK BW=1.4MHz Channel=23017 RB Size=1 Position=#0

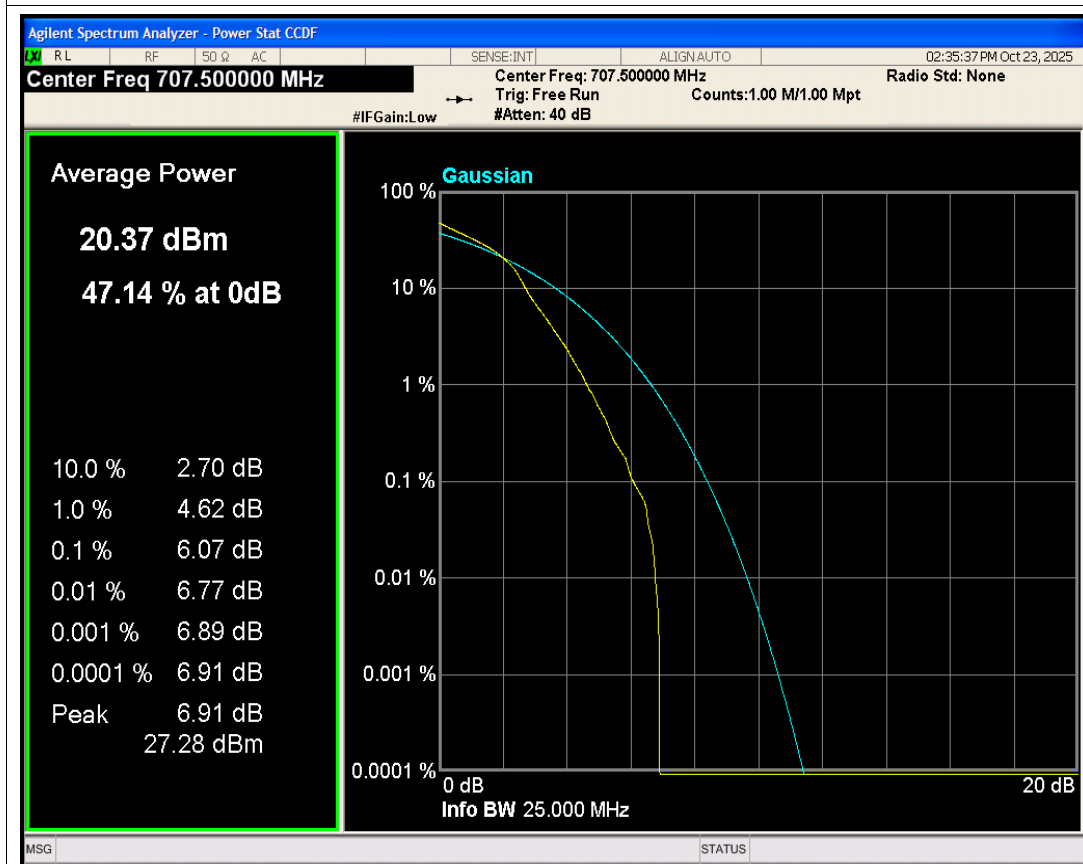


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

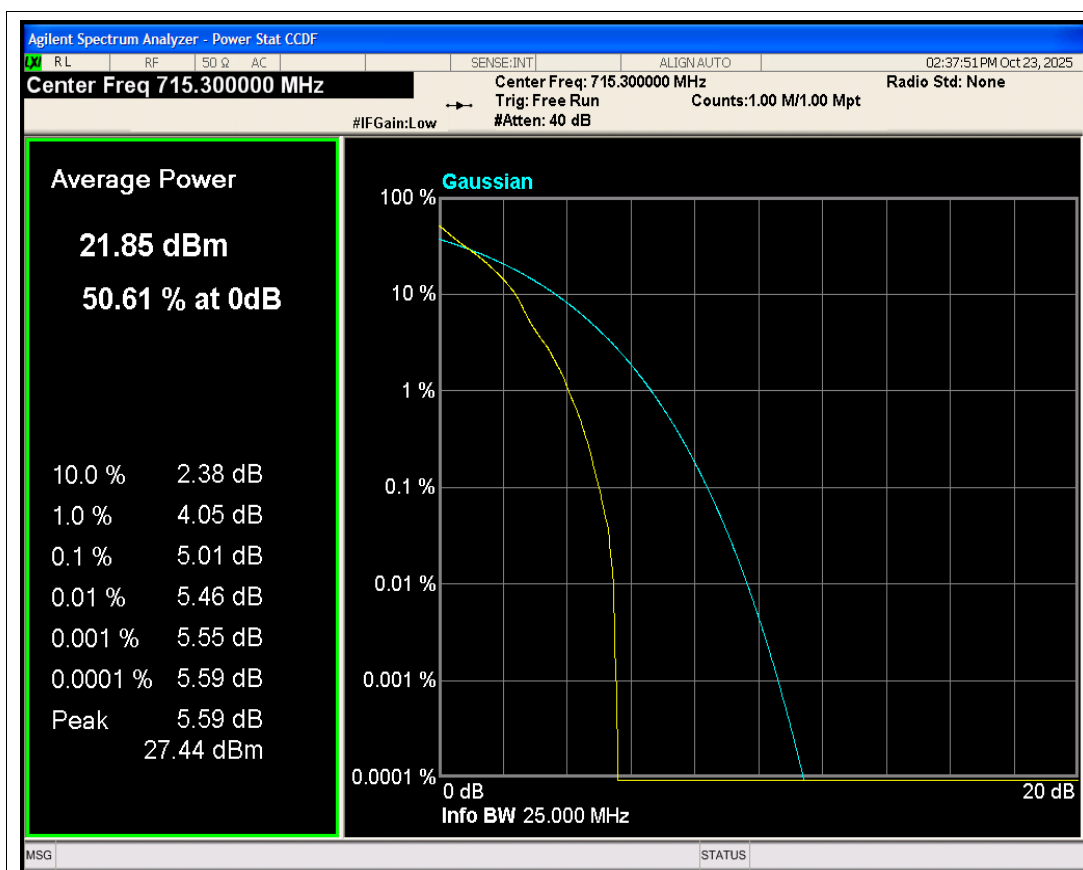


Band12 QPSK BW=1.4MHz Channel=23095 RB Size=1 Position=#0

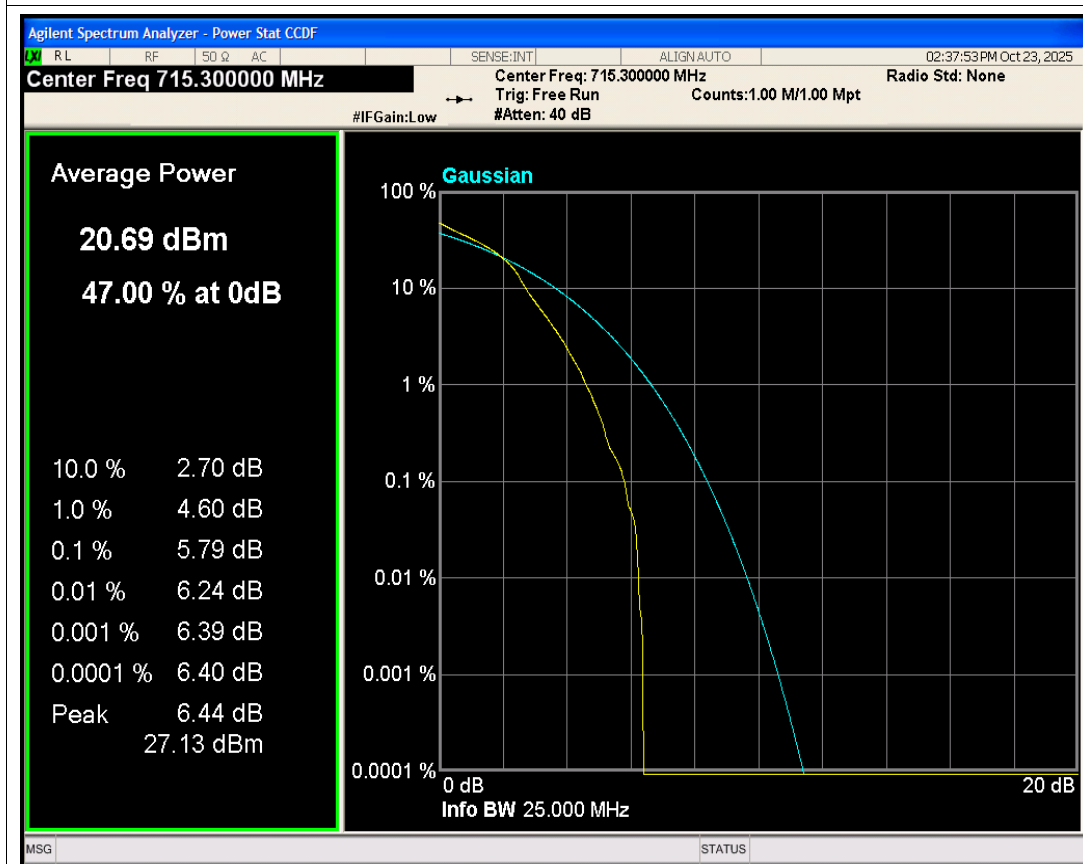


Band12 16QAM BW=1.4MHz Channel=23095 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

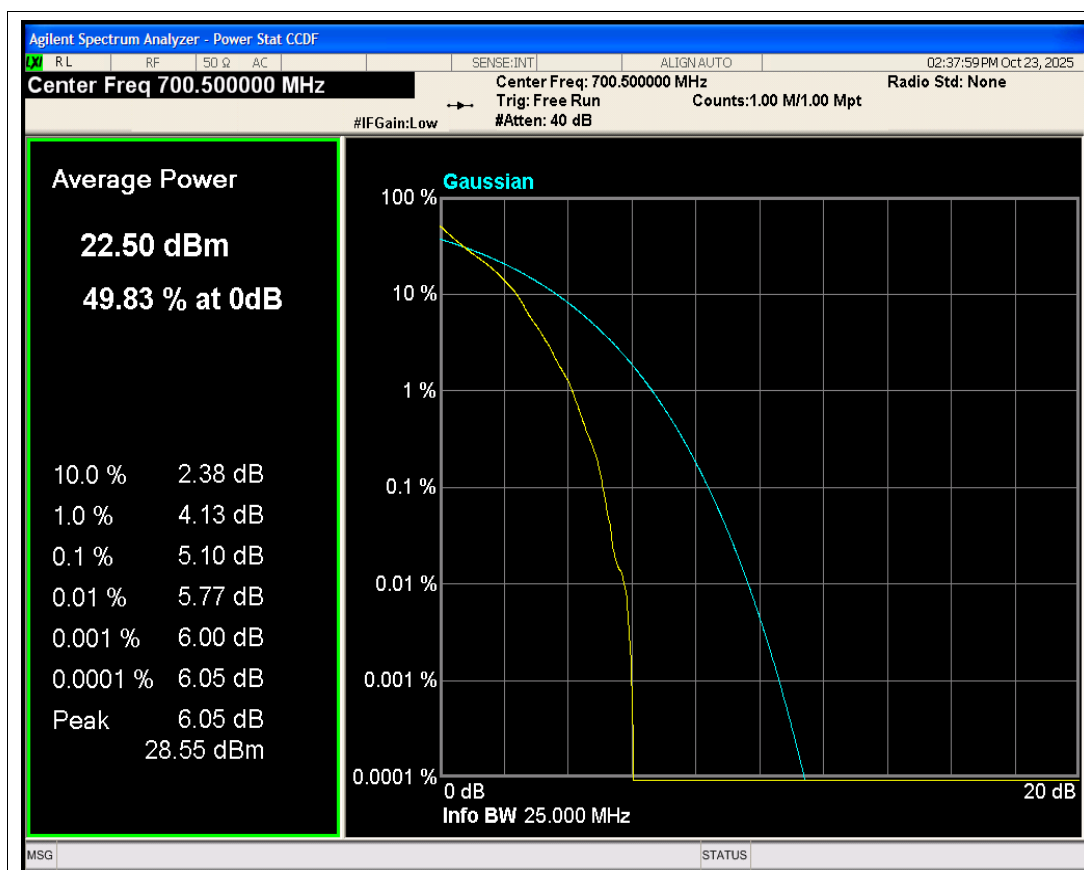


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=1 Position=#0

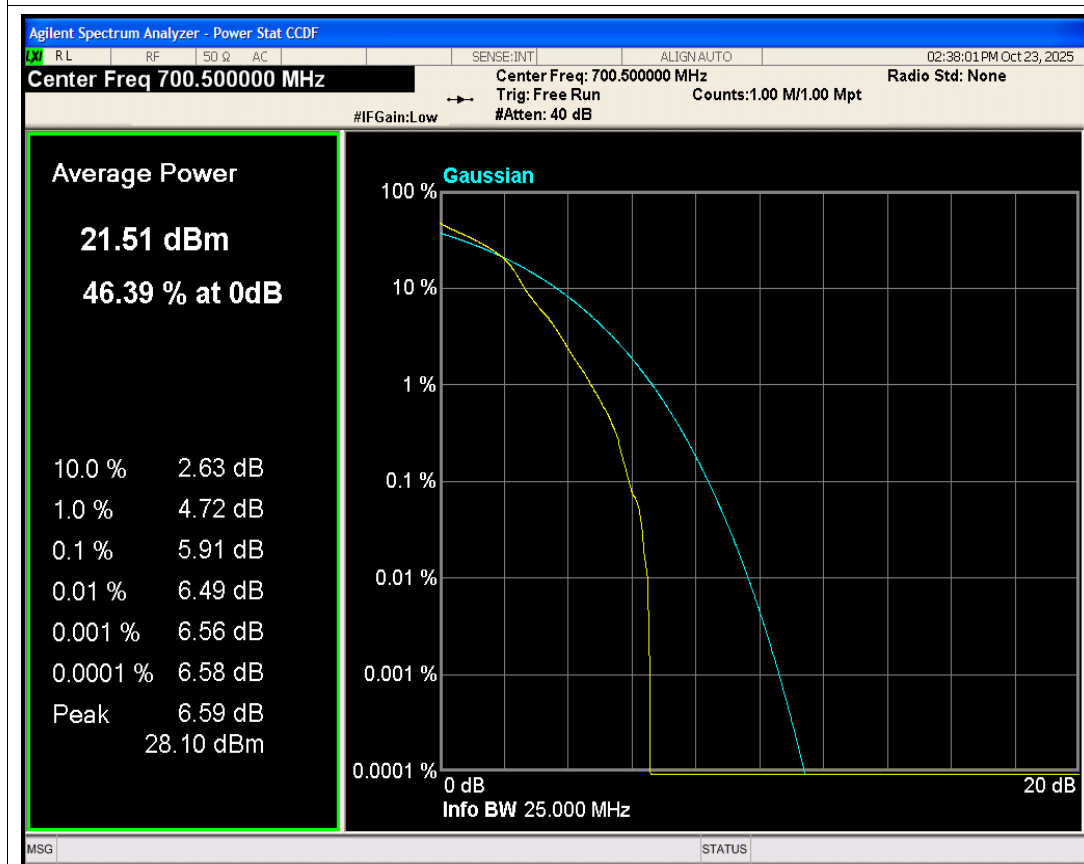


Band12 16QAM BW=1.4MHz Channel=23173 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

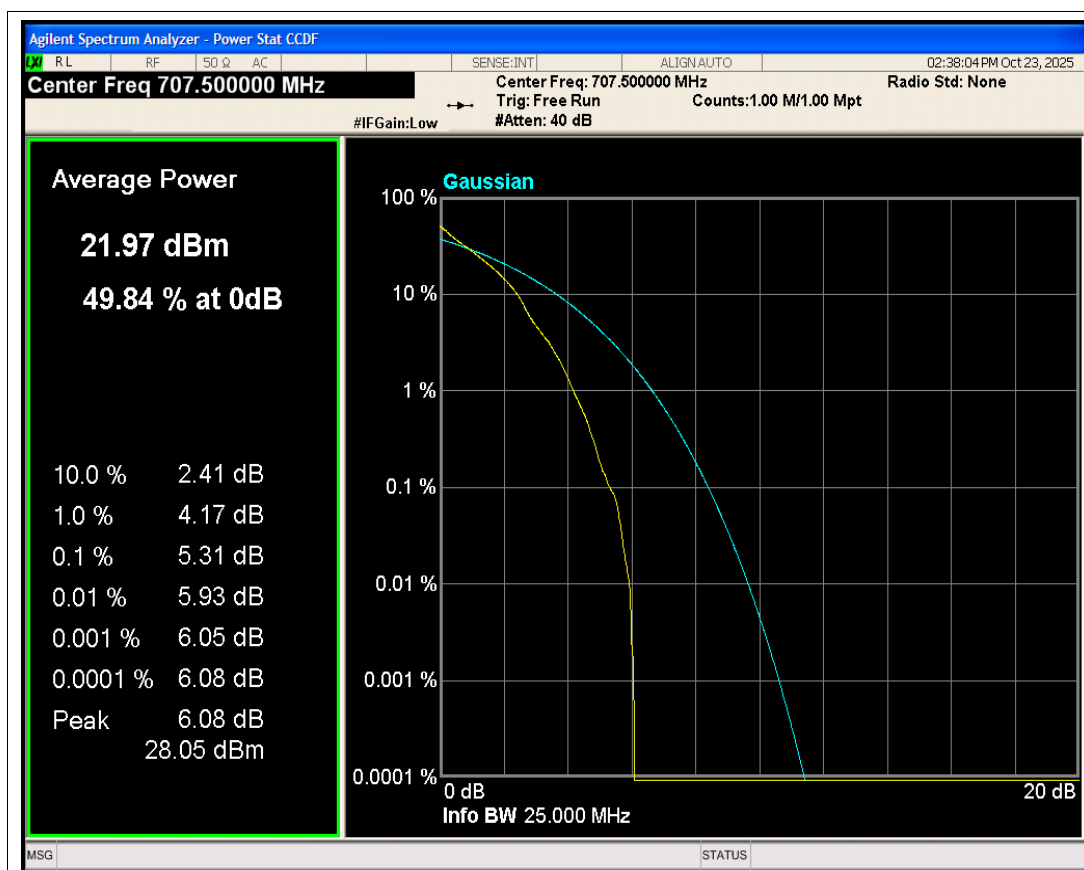


Band12 QPSK BW=3MHz Channel=23025 RB Size=1 Position=#0

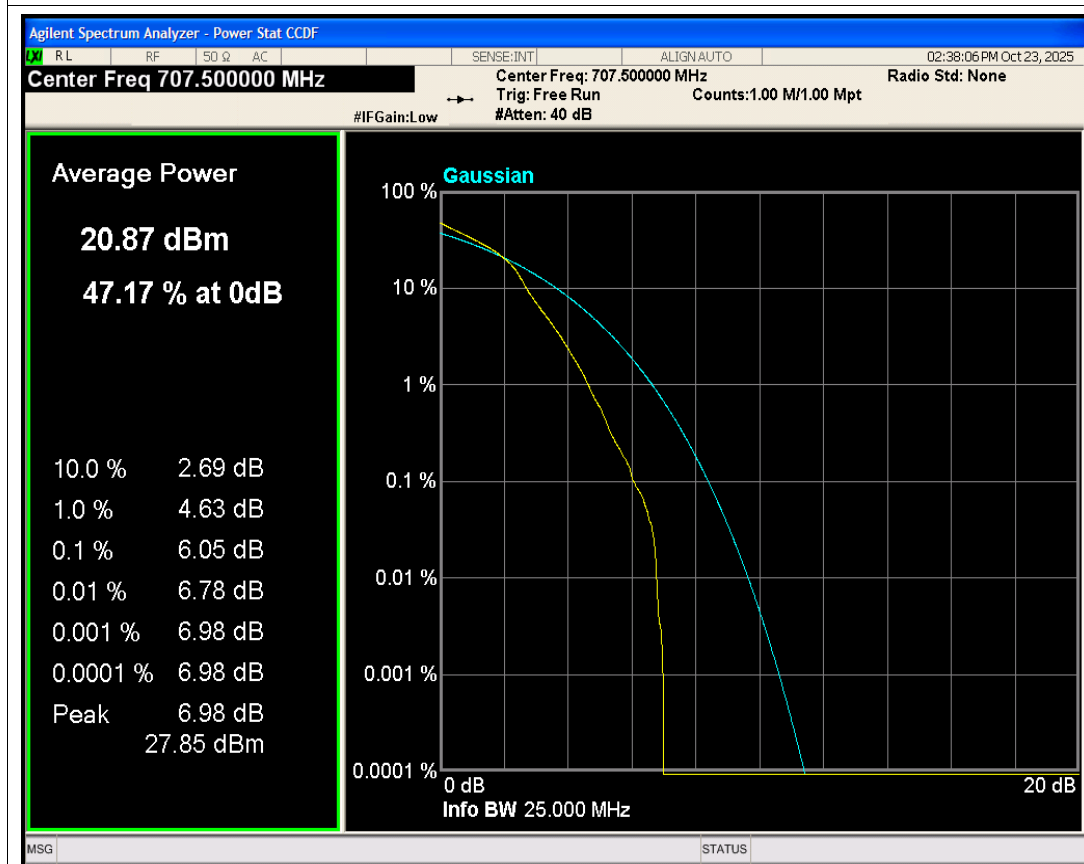


Band12 16QAM BW=3MHz Channel=23025 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

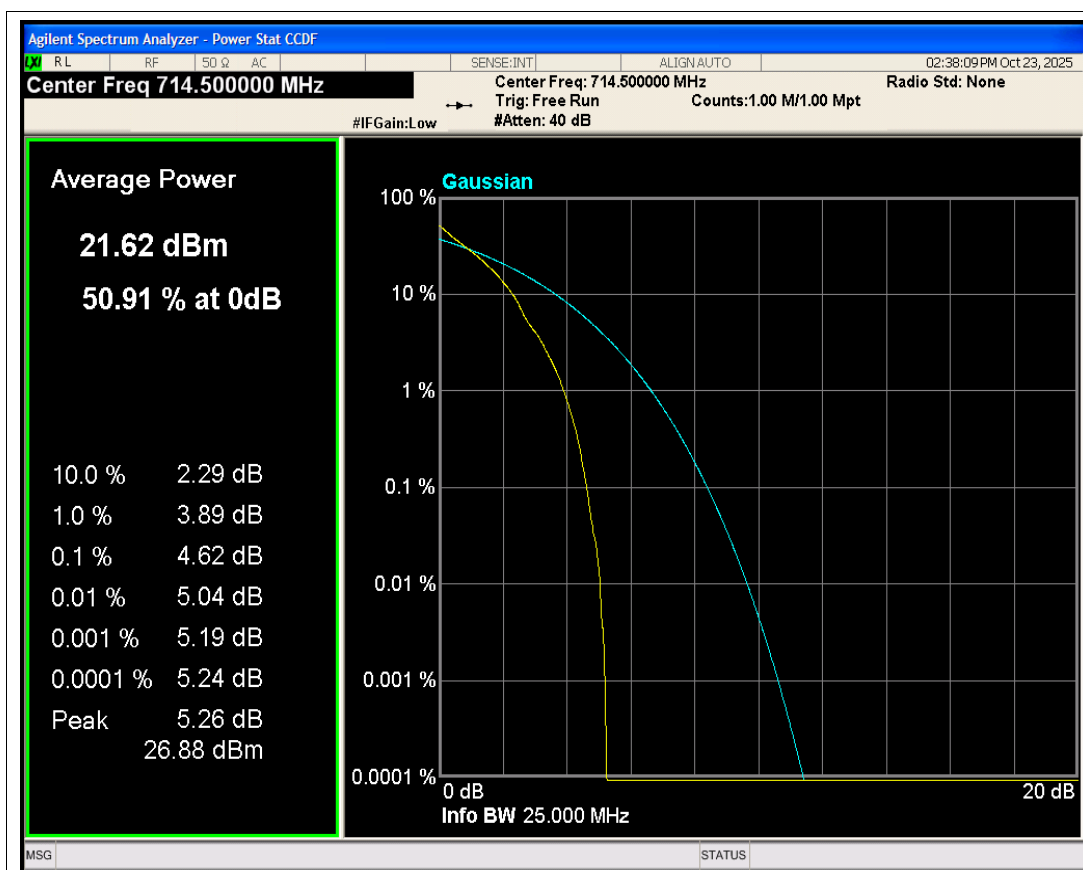


Band12 QPSK BW=3MHz Channel=23095 RB Size=1 Position=#0

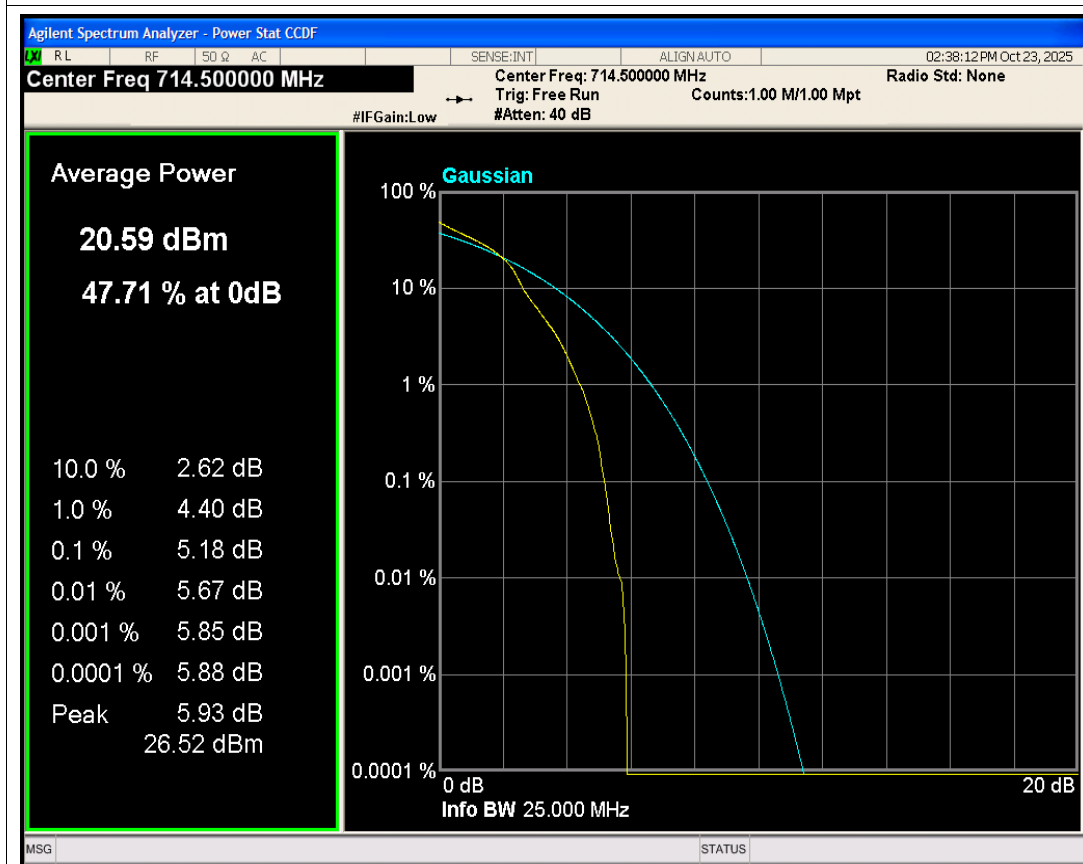


Band12 16QAM BW=3MHz Channel=23095 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

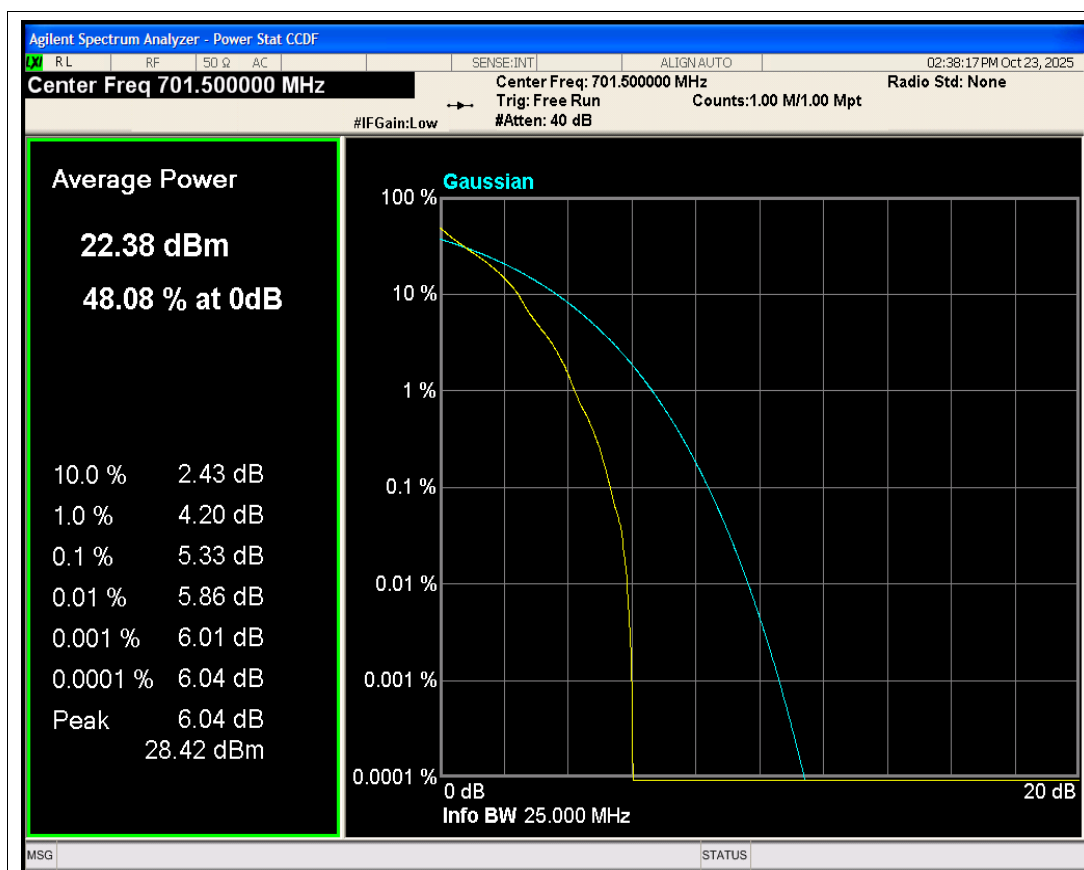


Band12 QPSK BW=3MHz Channel=23165 RB Size=1 Position=#0

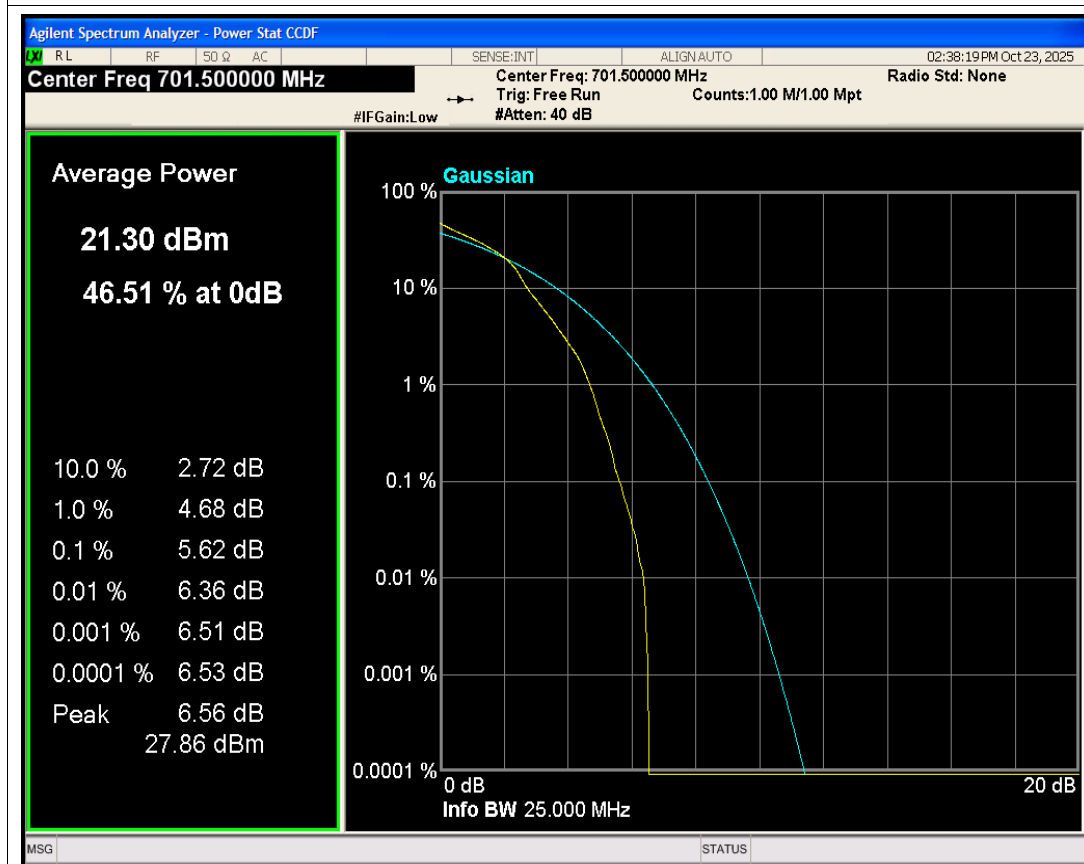


Band12 16QAM BW=3MHz Channel=23165 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

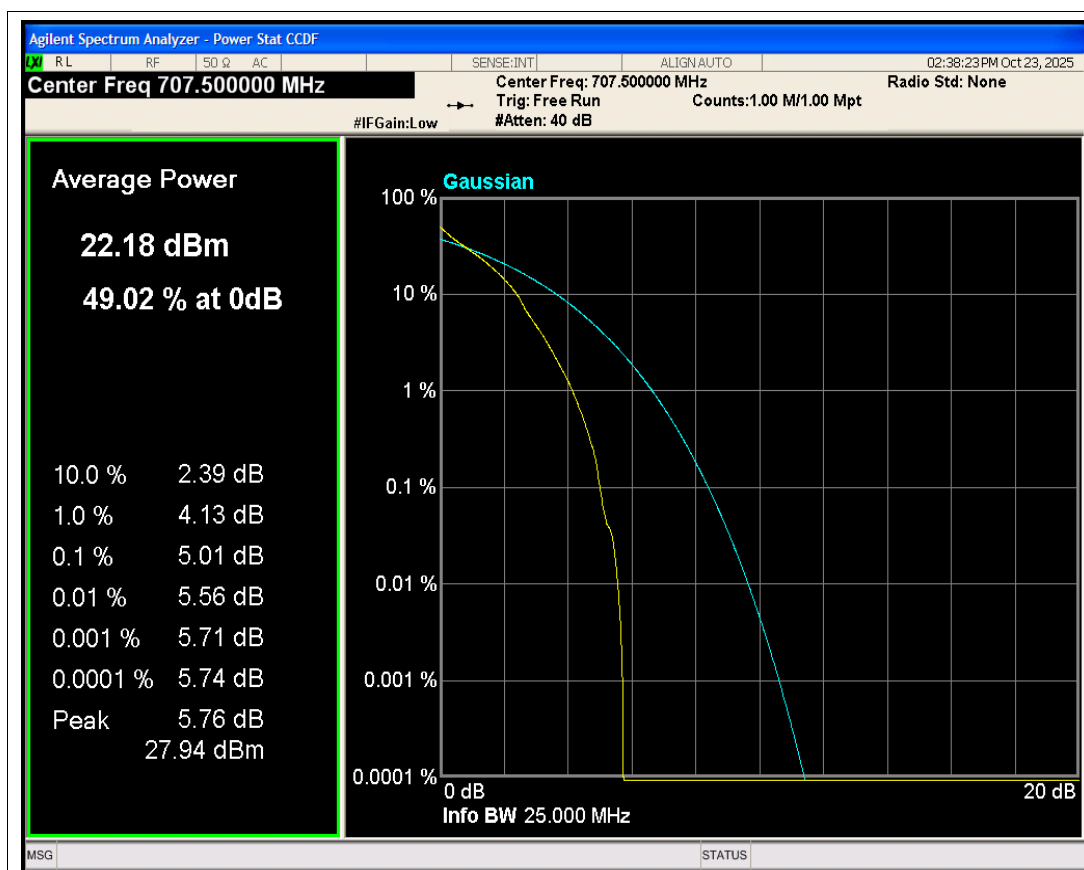


Band12 QPSK BW=5MHz Channel=23035 RB Size=1 Position=#0

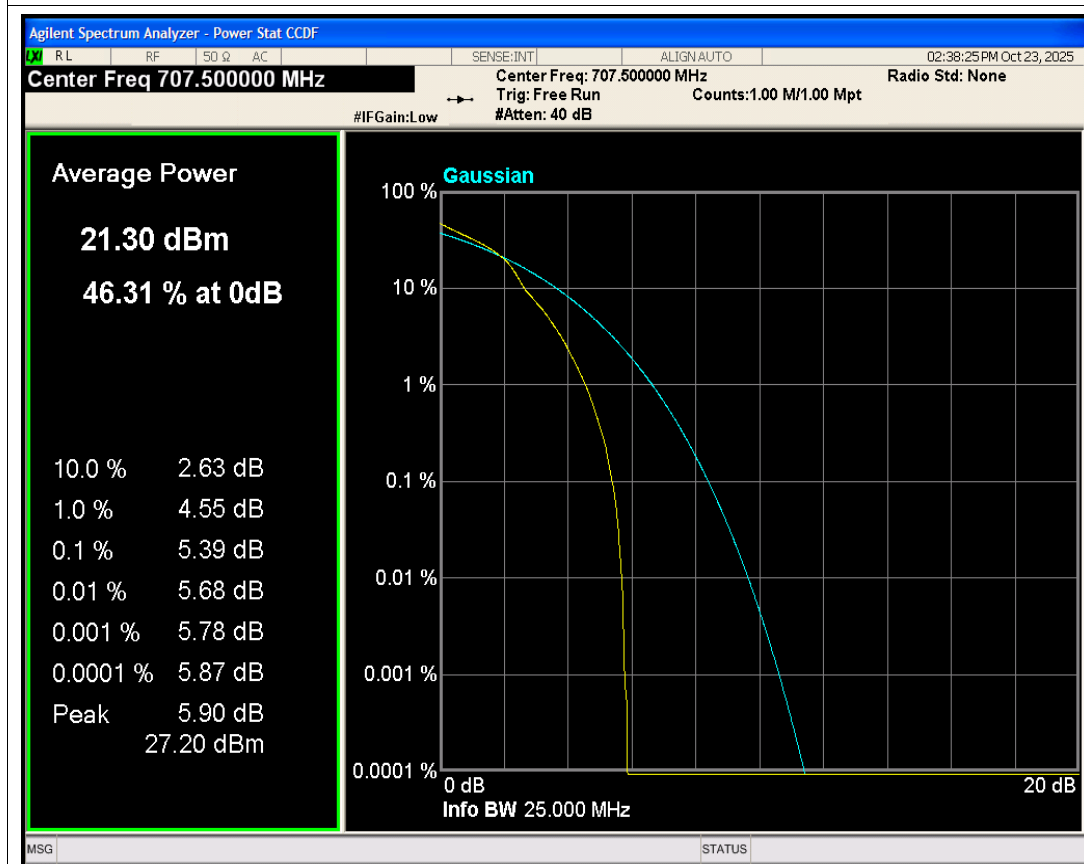


Band12 16QAM BW=5MHz Channel=23035 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

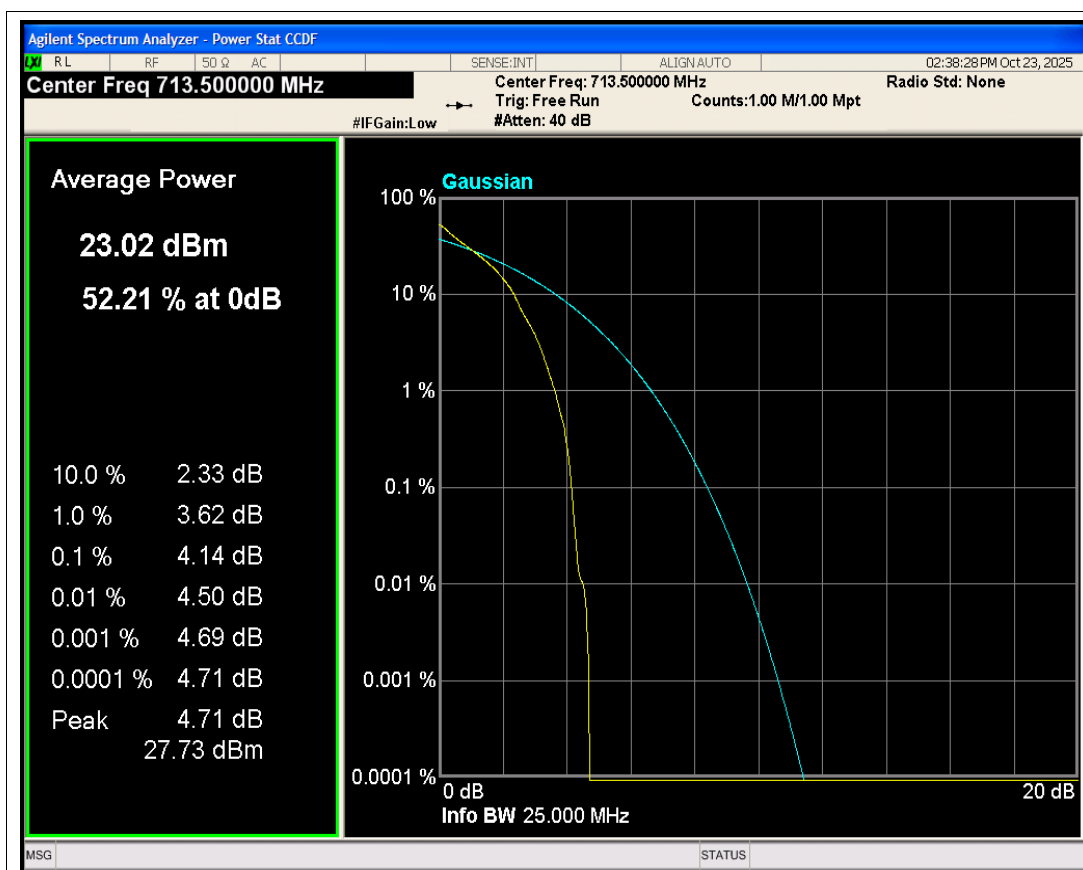


Band12 QPSK BW=5MHz Channel=23095 RB Size=1 Position=#0

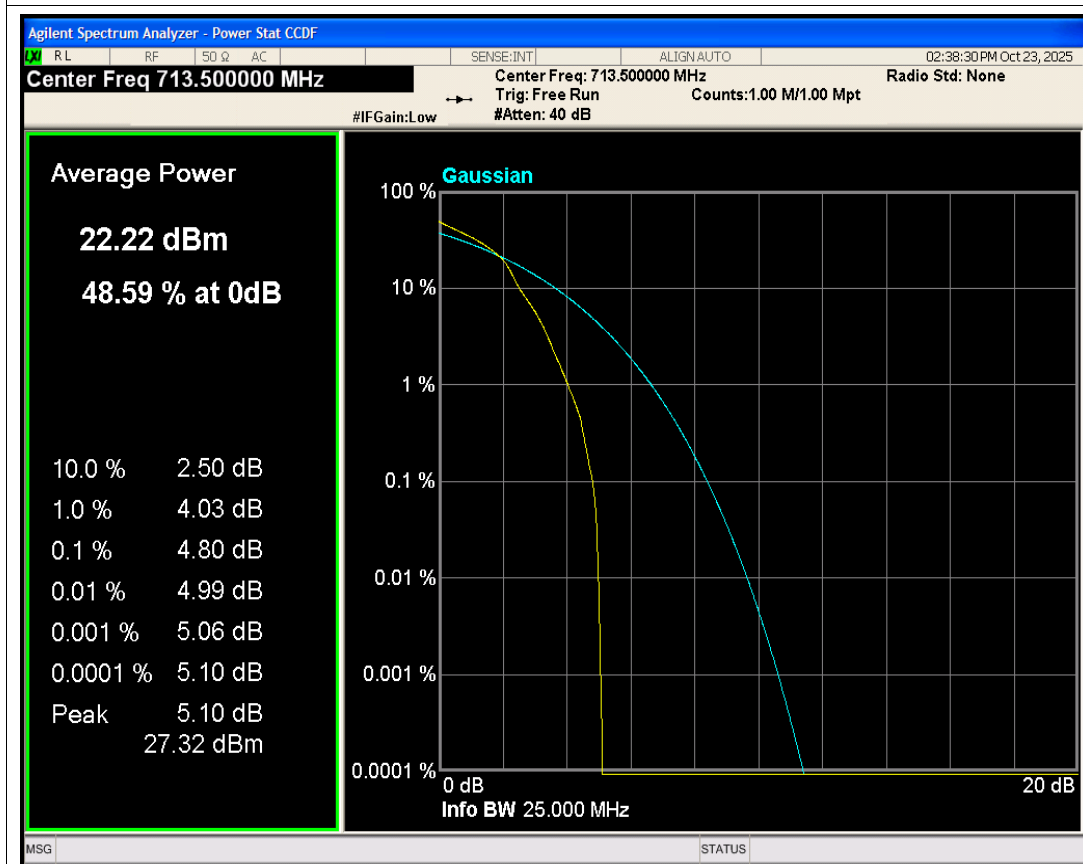


Band12 16QAM BW=5MHz Channel=23095 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

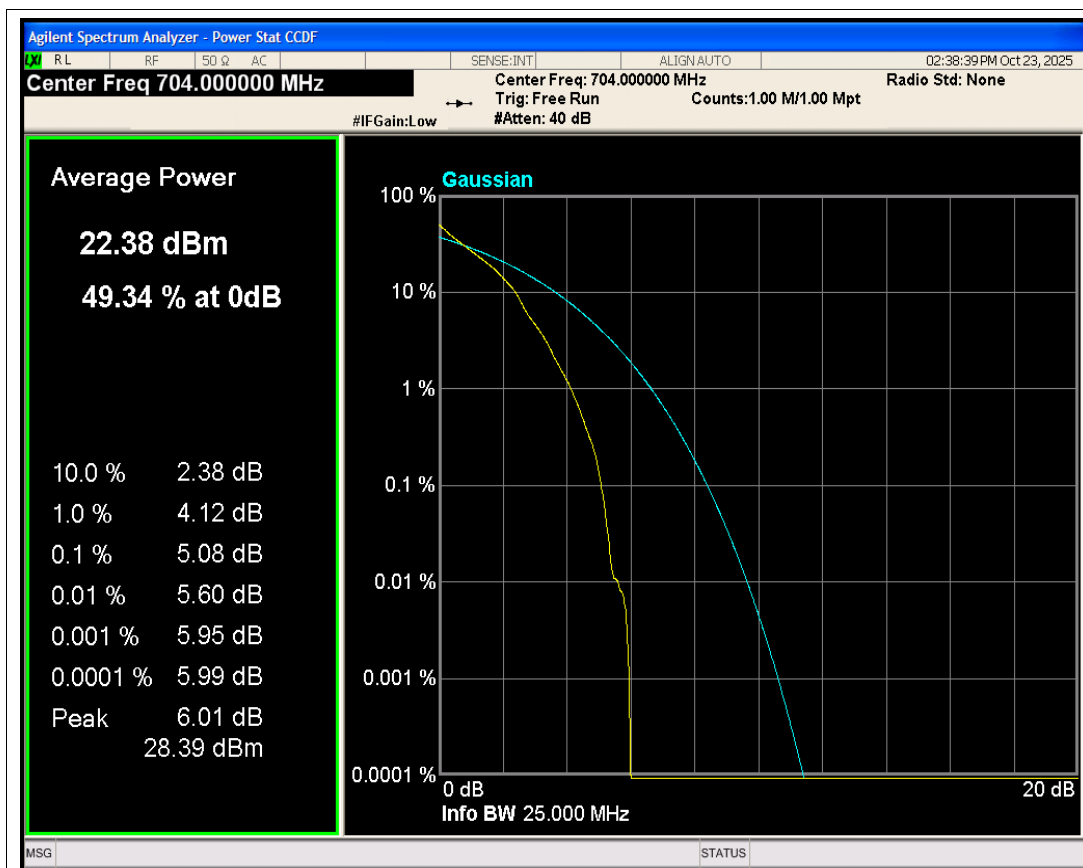


Band12 QPSK BW=5MHz Channel=23155 RB Size=1 Position=#0

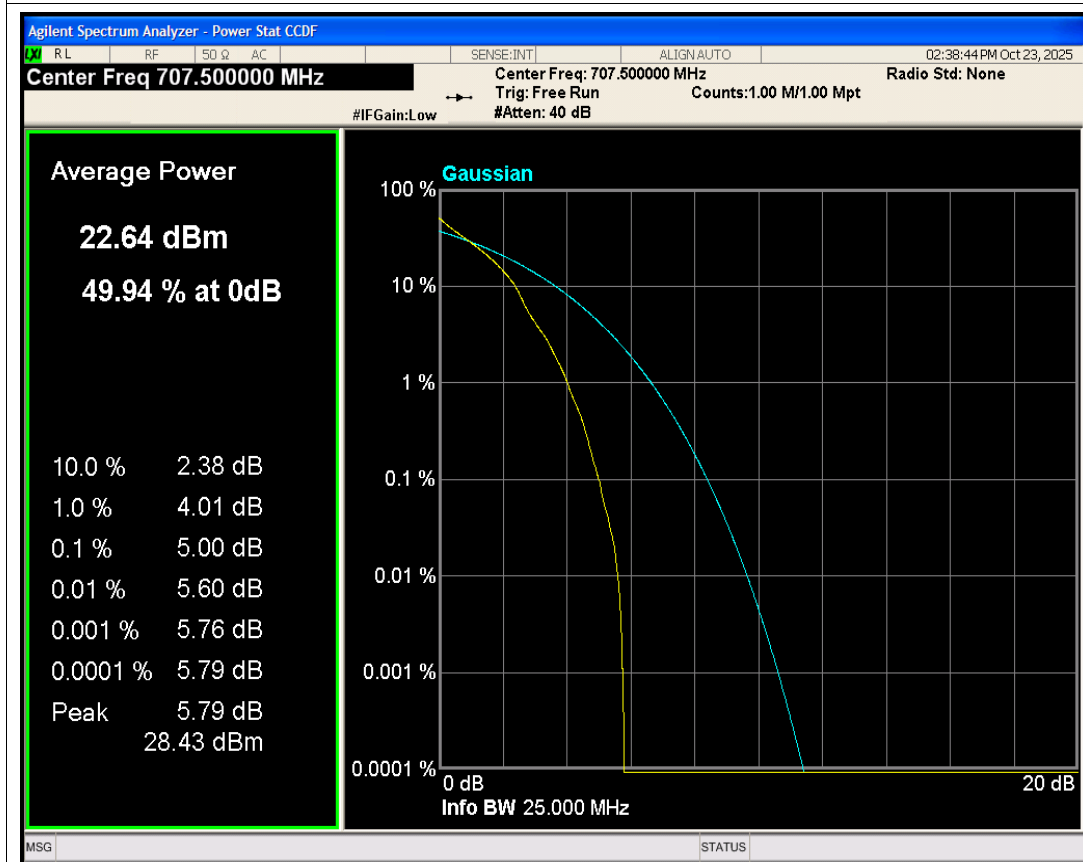


Band12 16QAM BW=5MHz Channel=23155 RB Size=1 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

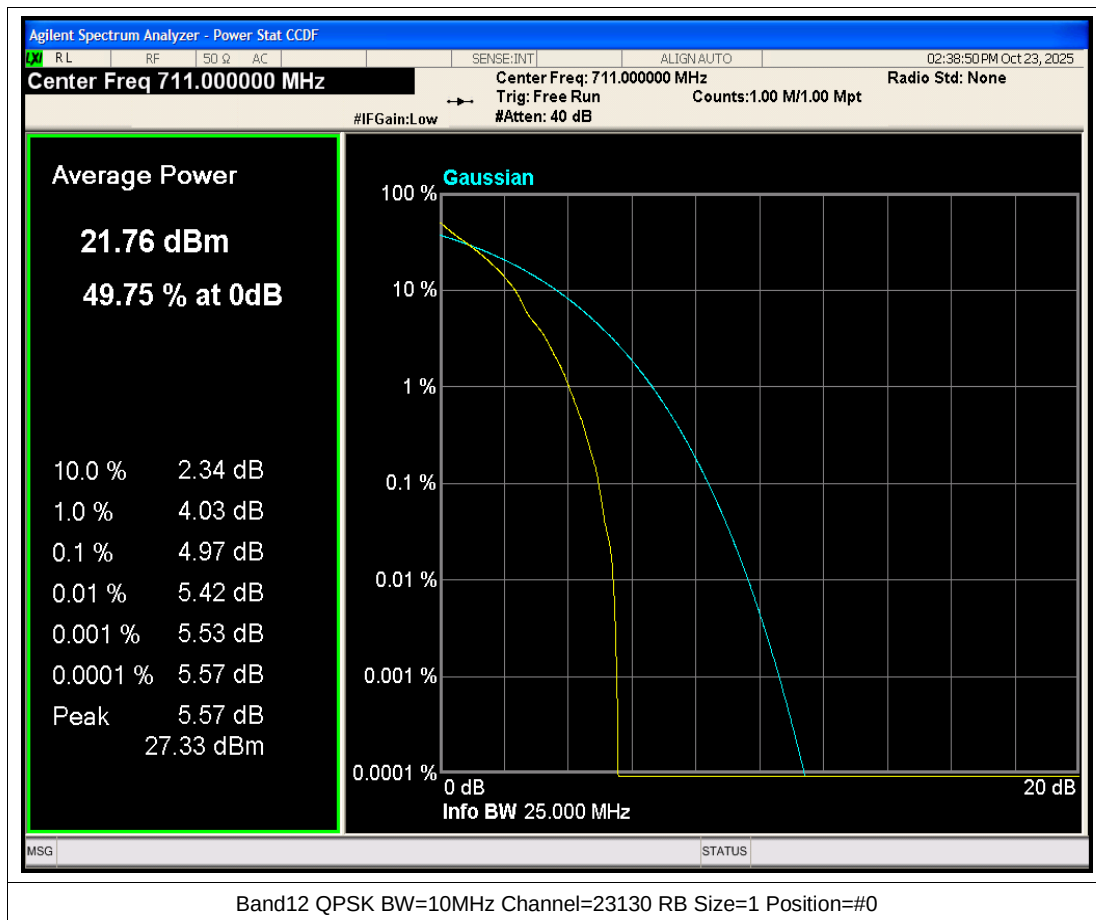


Band12 QPSK BW=10MHz Channel=23060 RB Size=1 Position=#0



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

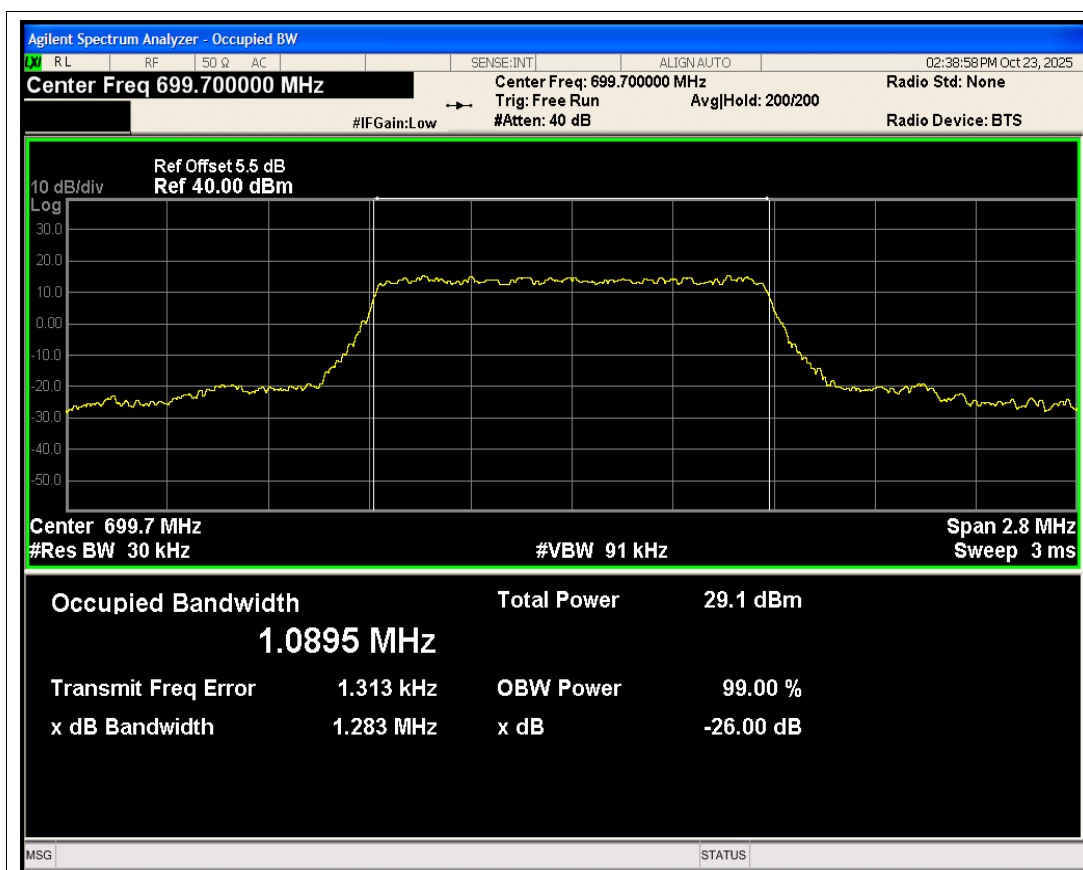
Report No.: STS2512370W01_Appendix LTE Band 12



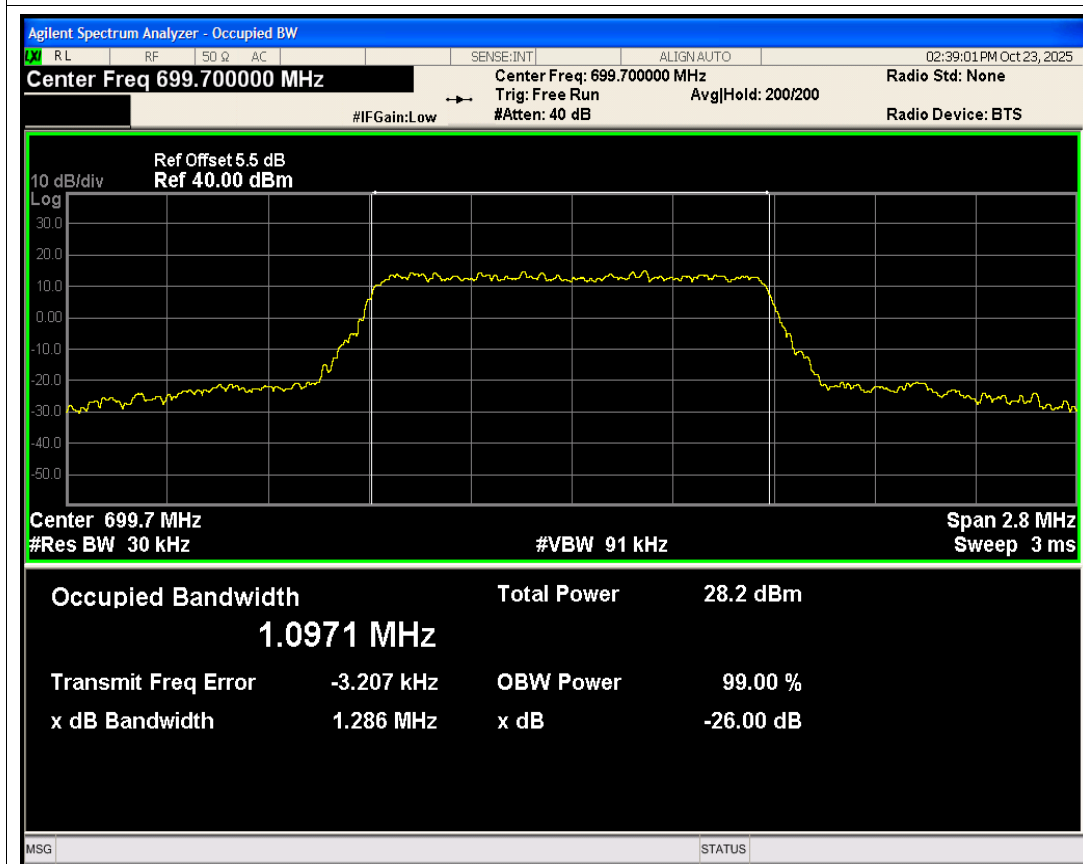
Appendix 4.Occupied bandwidth

<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>99% OBW (MHz)</i>	<i>-26dB EBW (MHz)</i>	<i>Verdict</i>
Band12	1.4	23017	6	#0	QPSK	1.090	1.283	PASS
Band12	1.4	23017	6	#0	16QAM	1.097	1.286	PASS
Band12	1.4	23095	6	#0	QPSK	1.095	1.280	PASS
Band12	1.4	23095	6	#0	16QAM	1.093	1.261	PASS
Band12	1.4	23173	6	#0	QPSK	1.101	1.276	PASS
Band12	1.4	23173	6	#0	16QAM	1.093	1.267	PASS
Band12	3	23025	15	#0	QPSK	2.699	2.947	PASS
Band12	3	23025	15	#0	16QAM	2.698	2.947	PASS
Band12	3	23095	15	#0	QPSK	2.714	2.926	PASS
Band12	3	23095	15	#0	16QAM	2.697	2.949	PASS
Band12	3	23165	15	#0	QPSK	2.699	2.969	PASS
Band12	3	23165	15	#0	16QAM	2.698	2.968	PASS
Band12	5	23035	25	#0	QPSK	4.525	4.961	PASS
Band12	5	23035	25	#0	16QAM	4.507	4.923	PASS
Band12	5	23095	25	#0	QPSK	4.506	4.984	PASS
Band12	5	23095	25	#0	16QAM	4.512	4.980	PASS
Band12	5	23155	25	#0	QPSK	4.529	4.983	PASS
Band12	5	23155	25	#0	16QAM	4.541	4.914	PASS
Band12	10	23060	50	#0	QPSK	8.973	9.697	PASS
Band12	10	23095	50	#0	QPSK	8.989	9.661	PASS
Band12	10	23130	50	#0	QPSK	8.958	9.619	PASS

Report No.: STS2512370W01_Appendix LTE Band 12

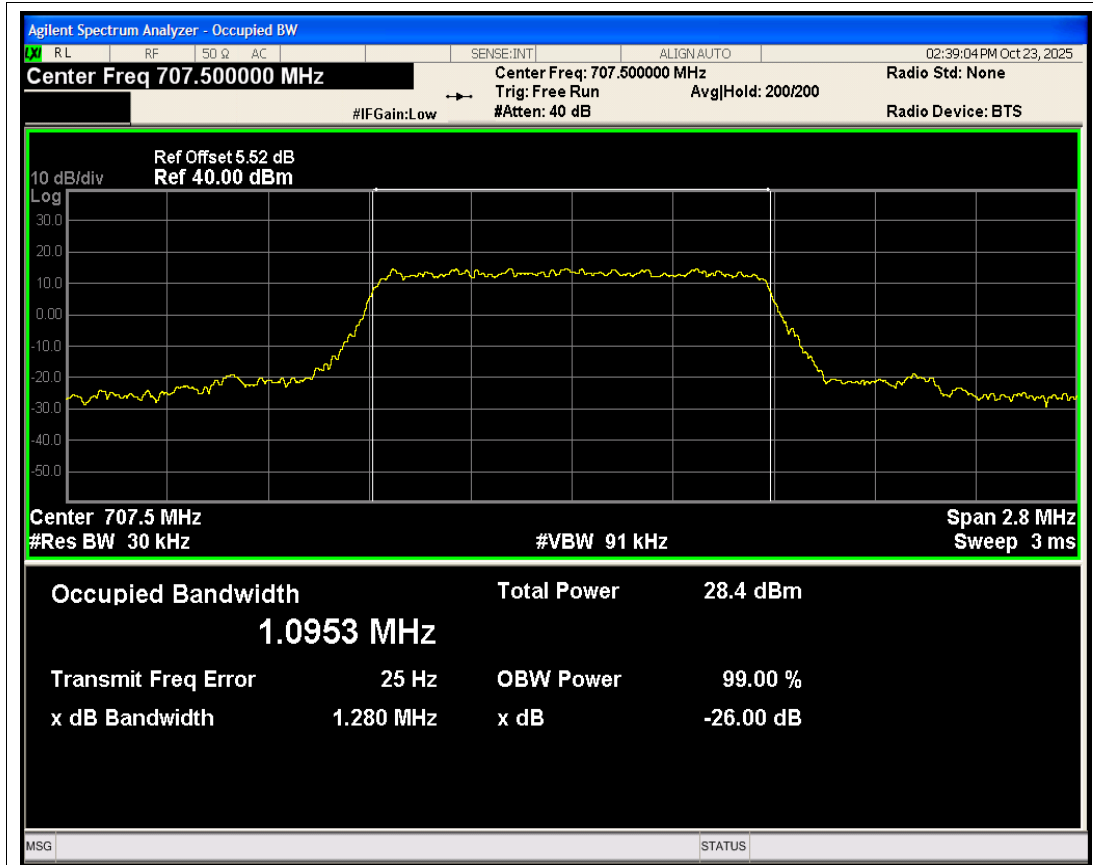


Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

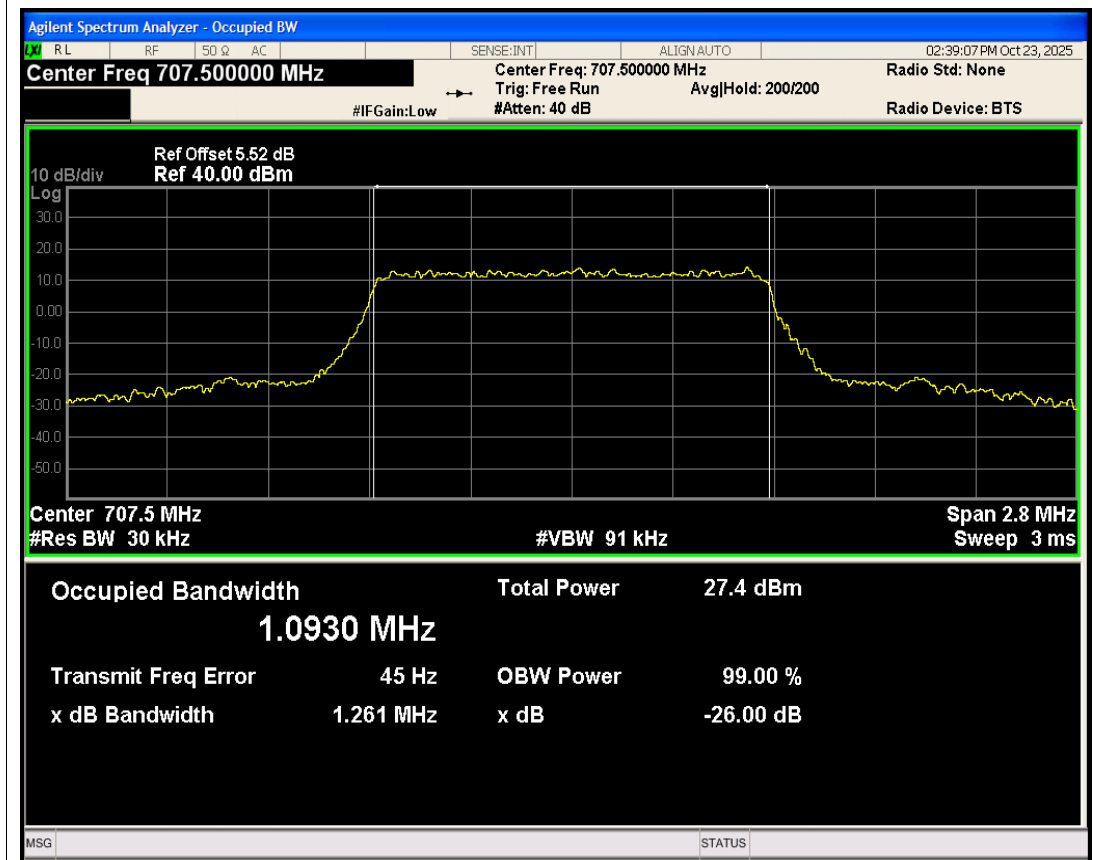


Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

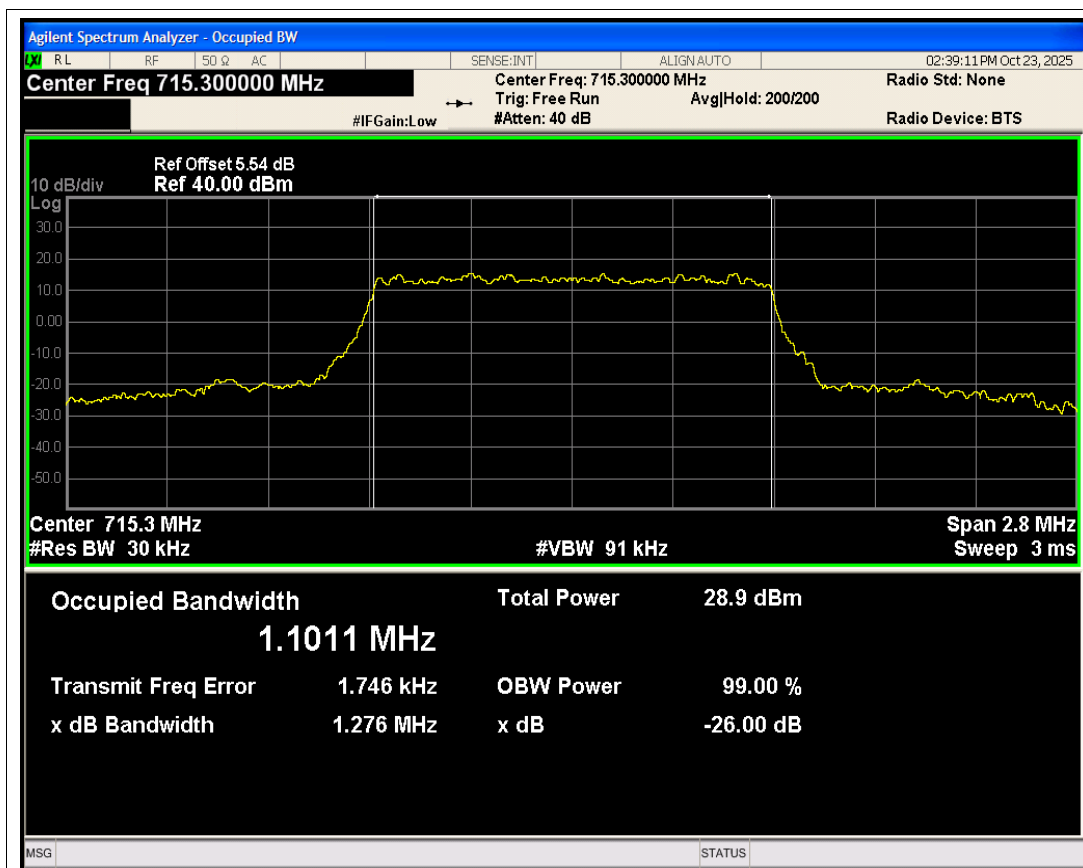


Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0

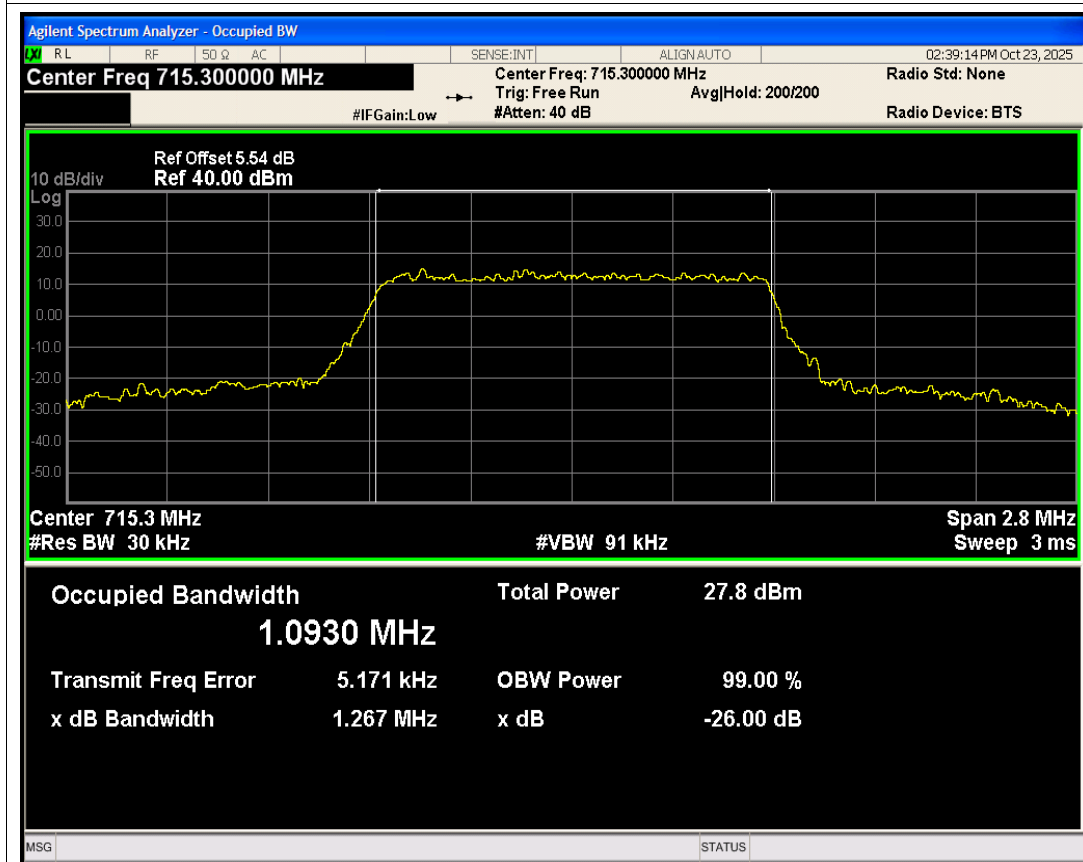


Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

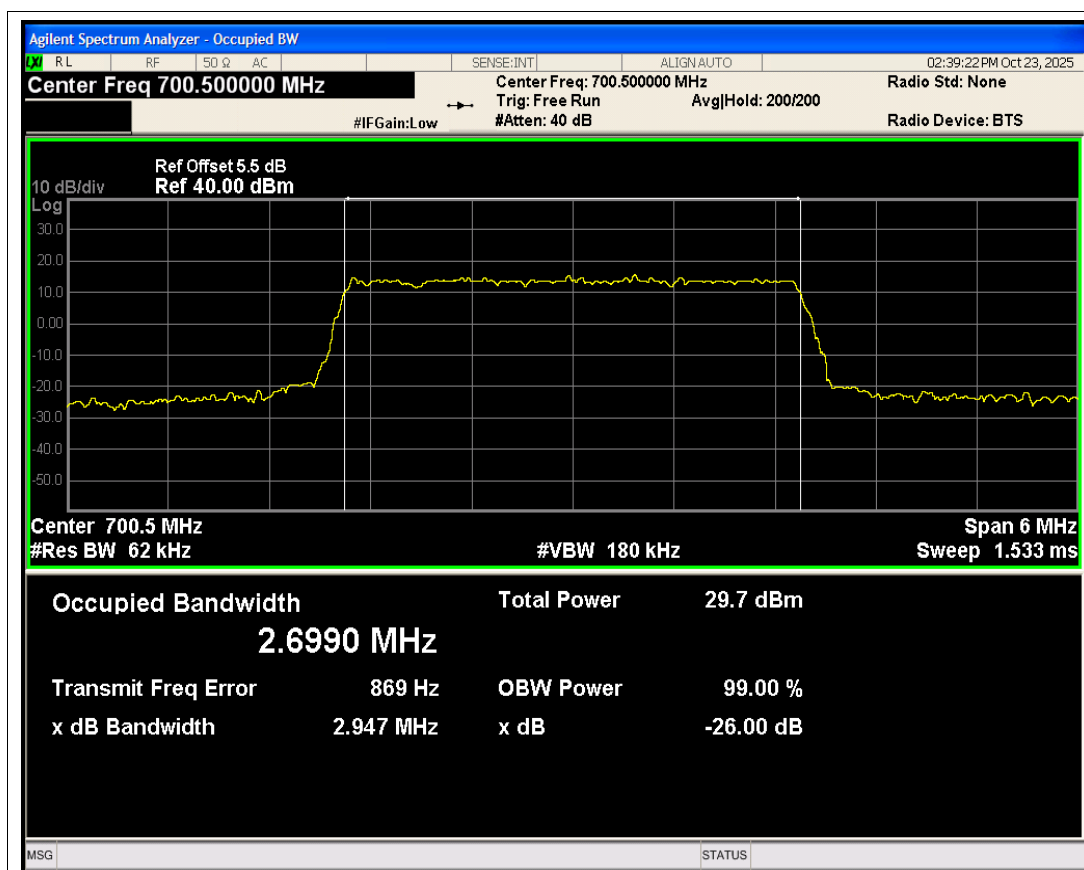


Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

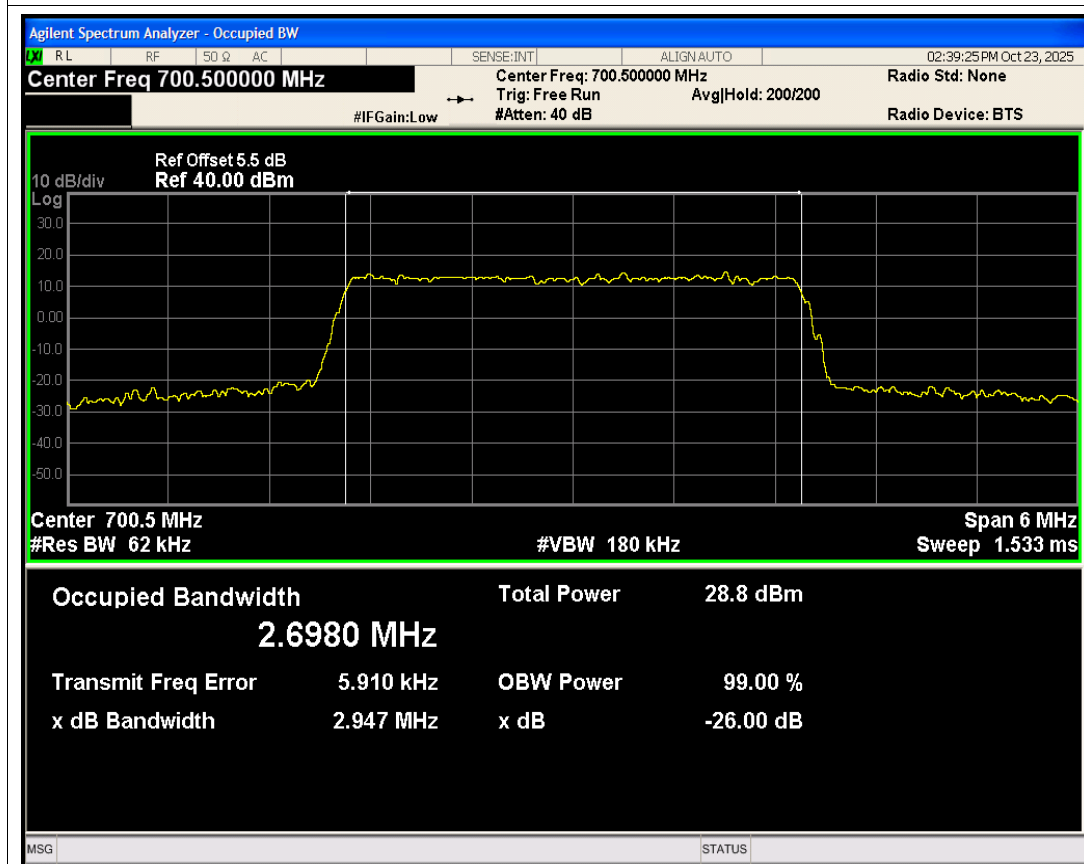


Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

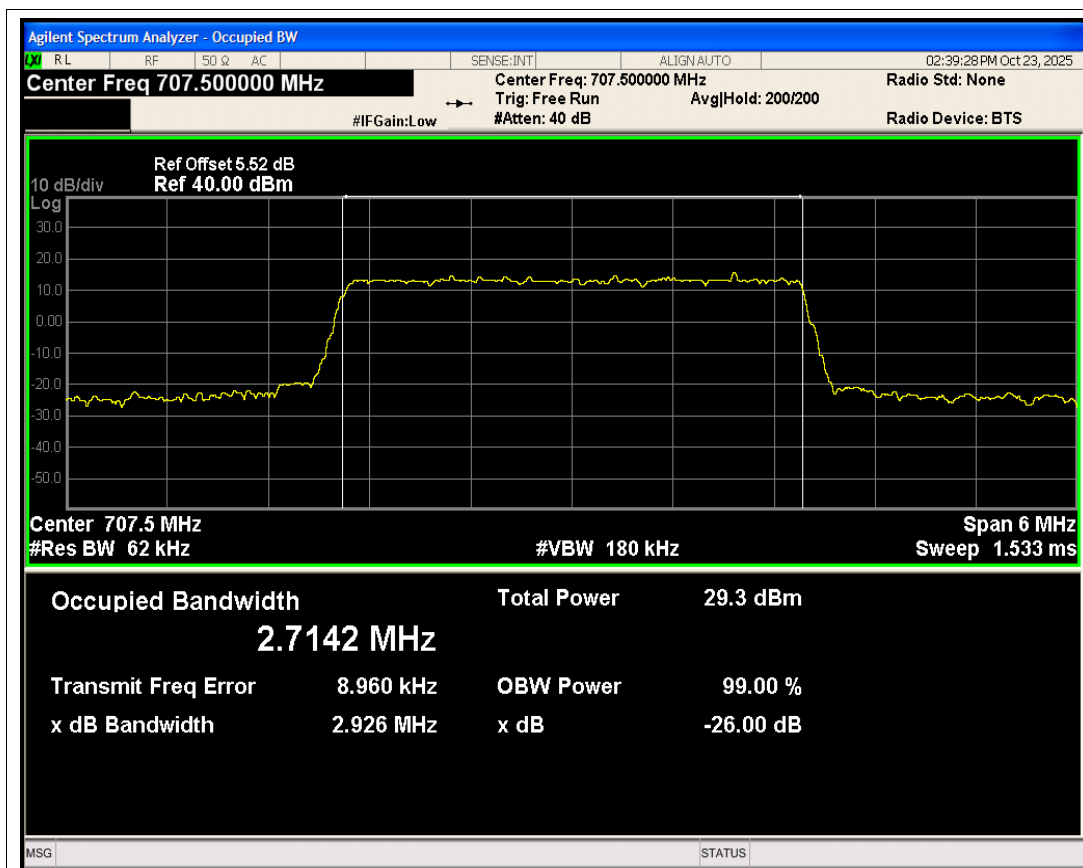


Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

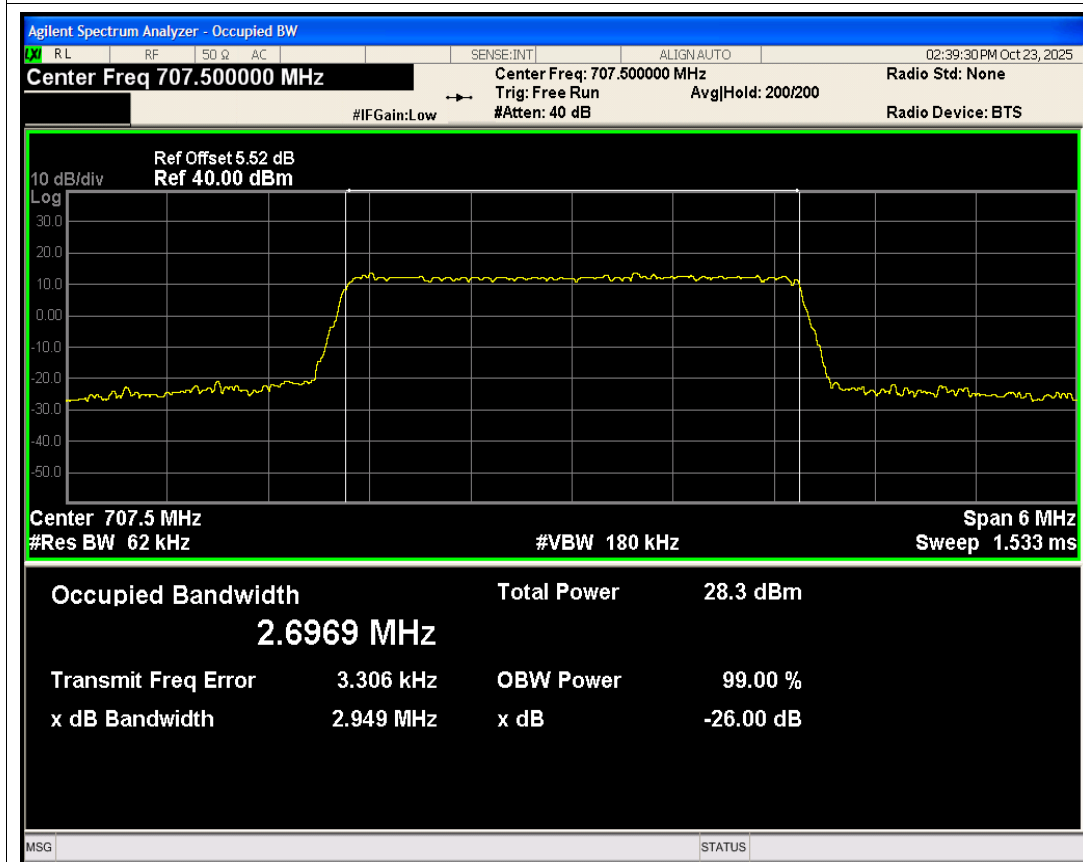


Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

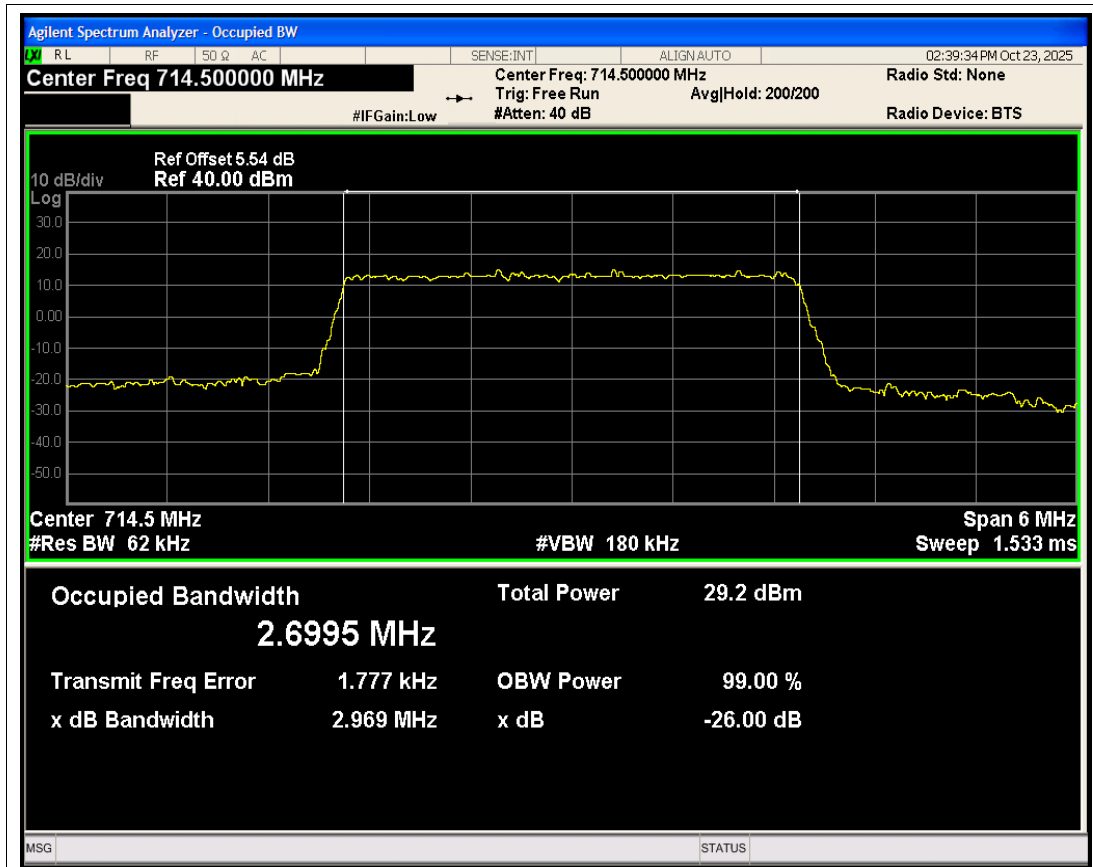


Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0

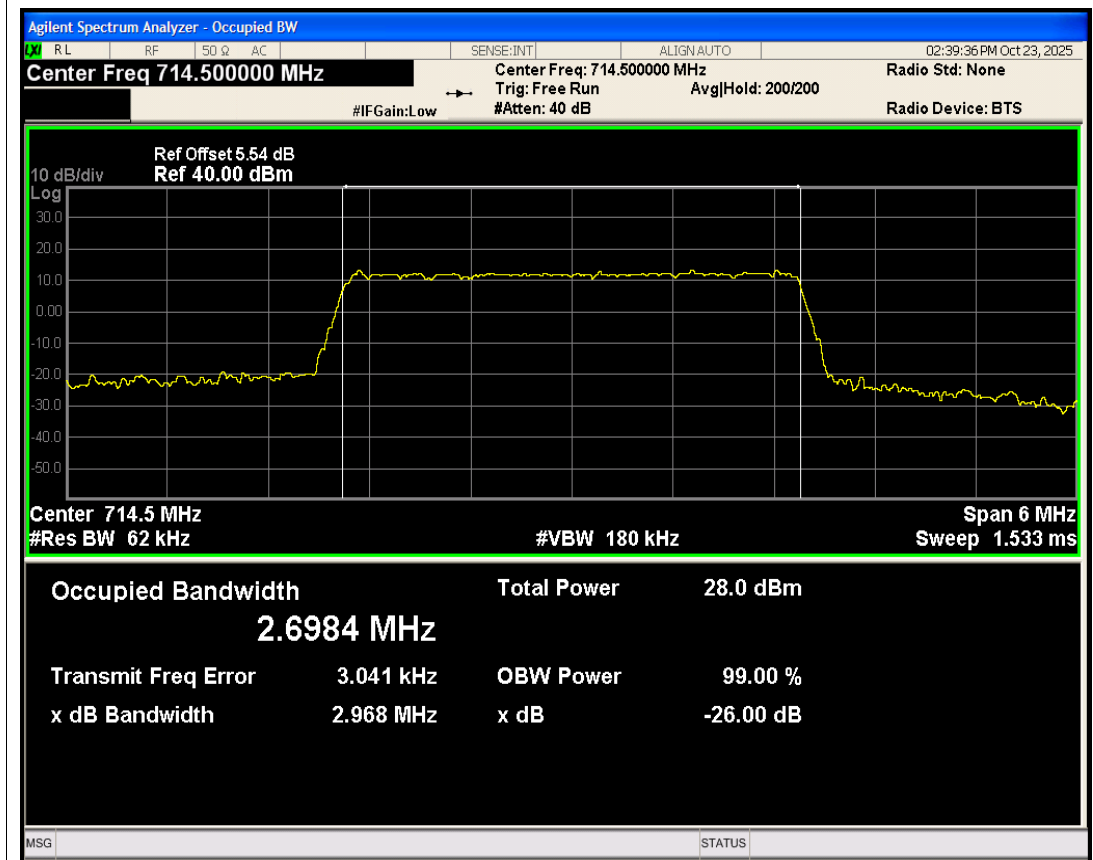


Band12 16QAM BW=3MHz Channel=23095 RB Size=15 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

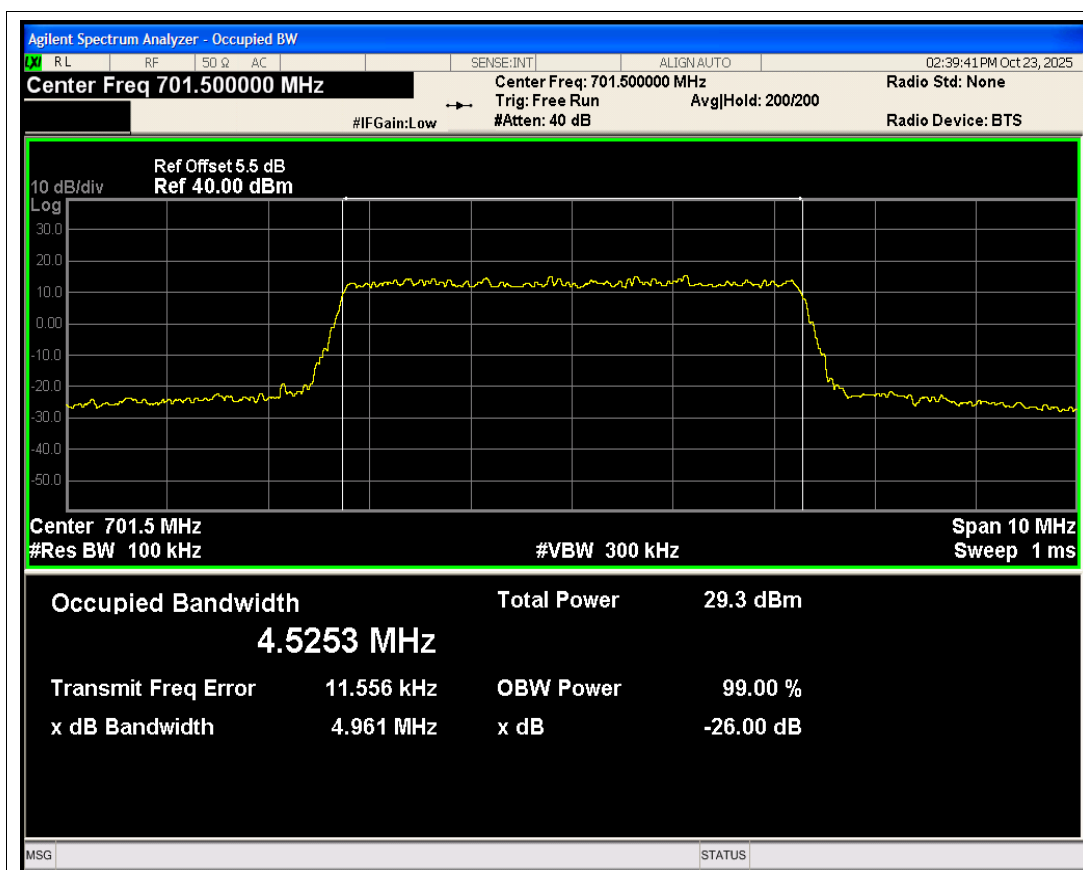


Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

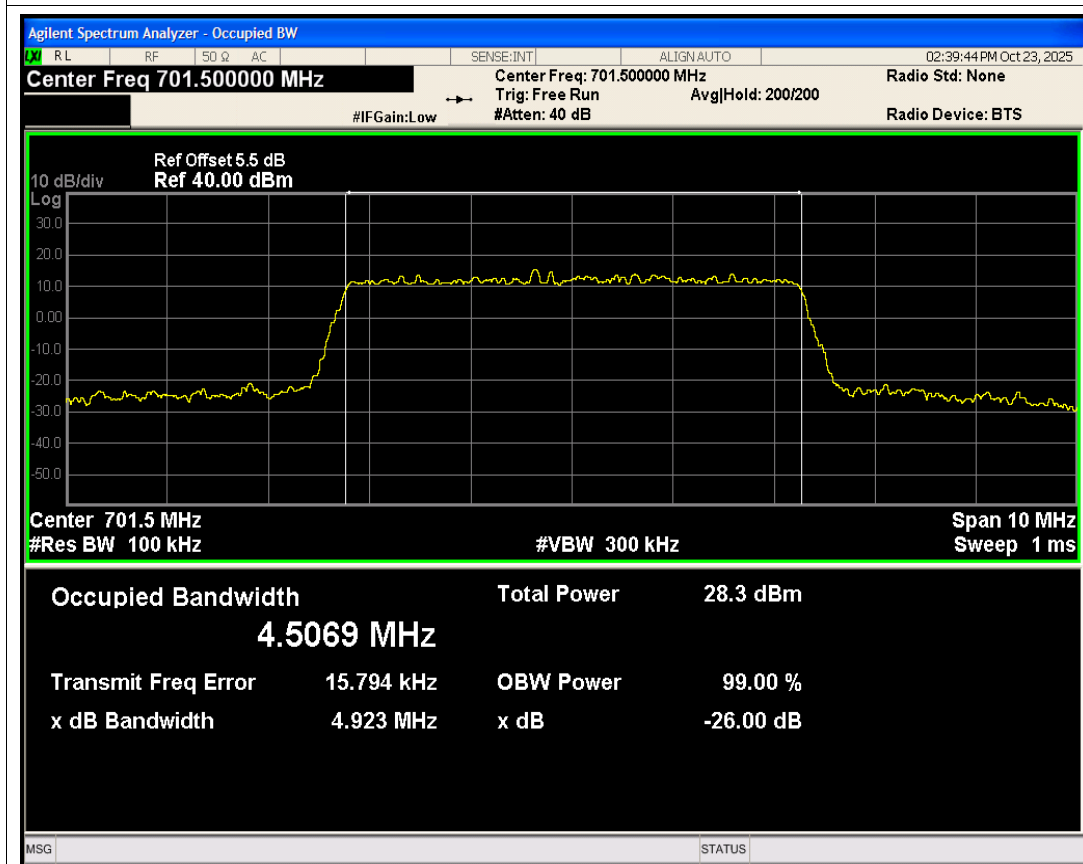


Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

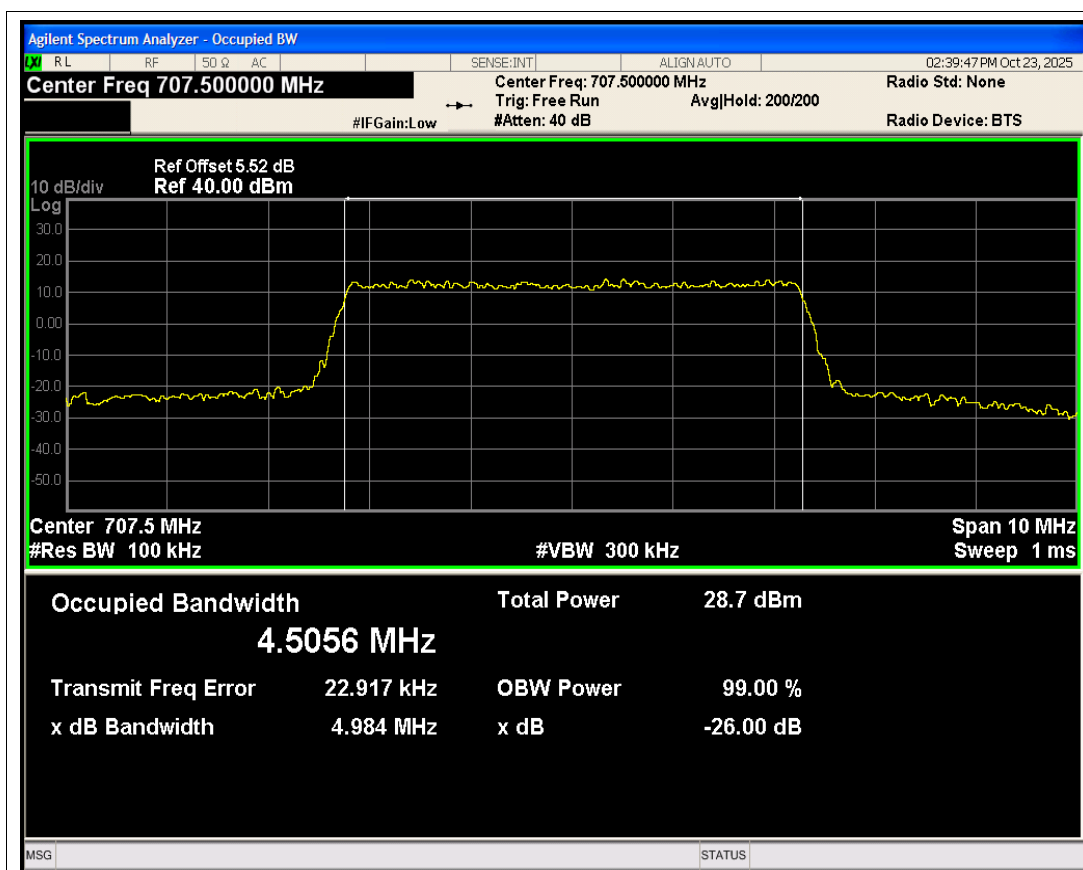


Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0

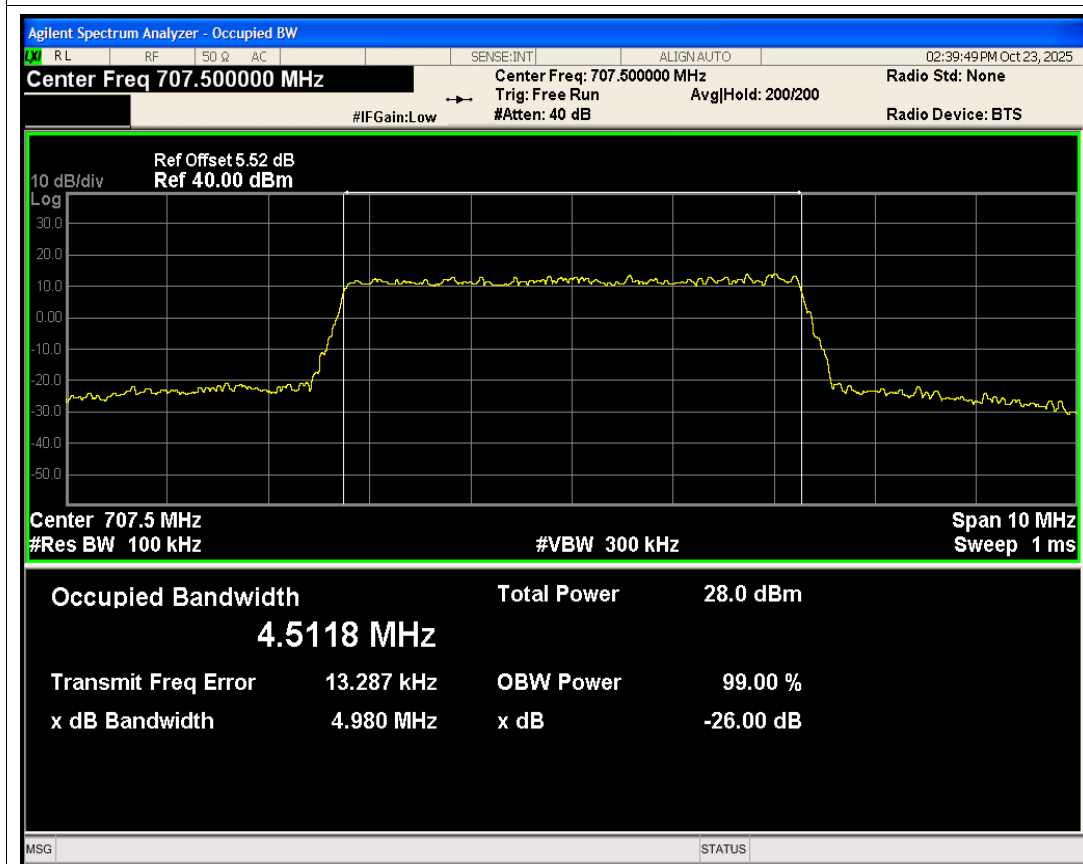


Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

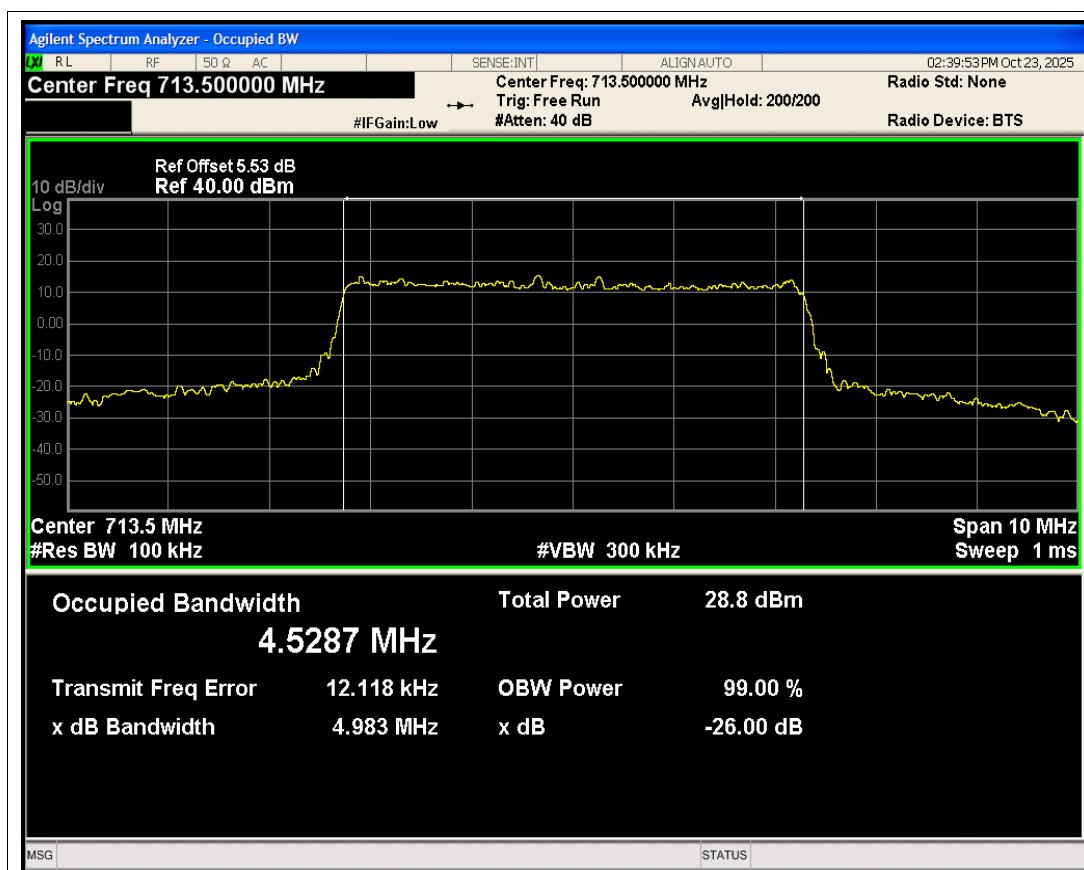


Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0

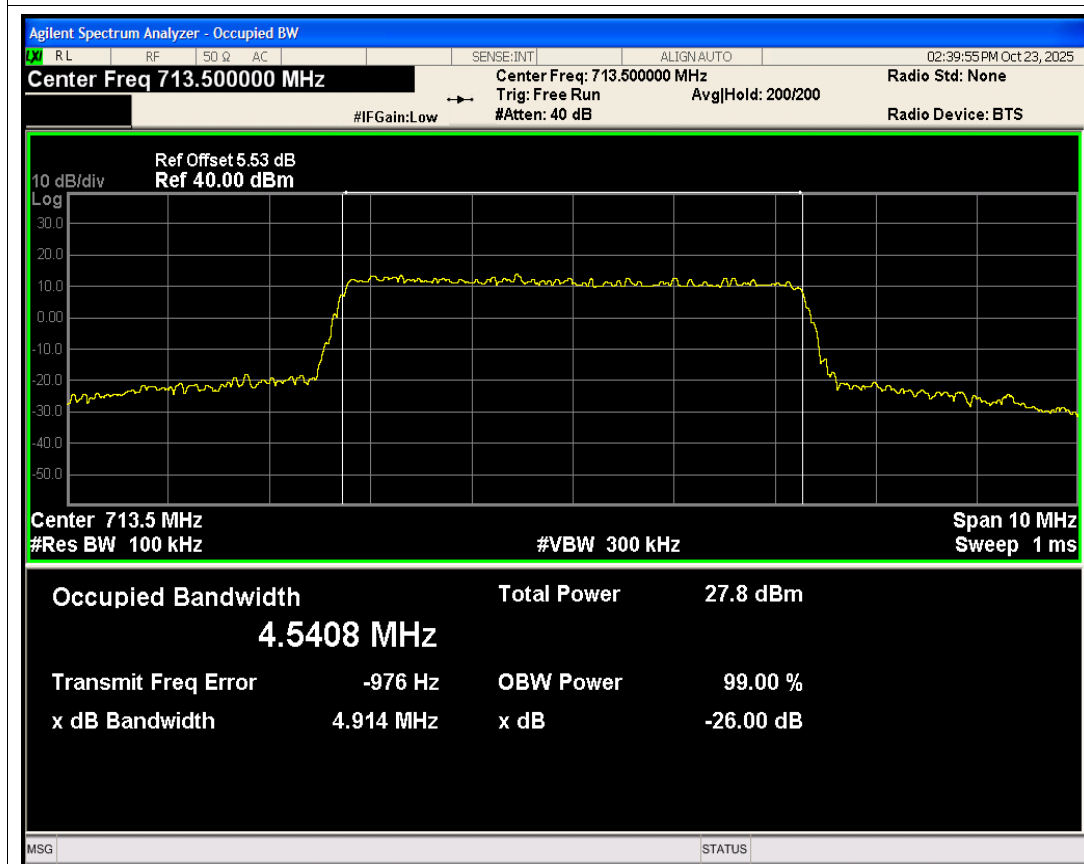


Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

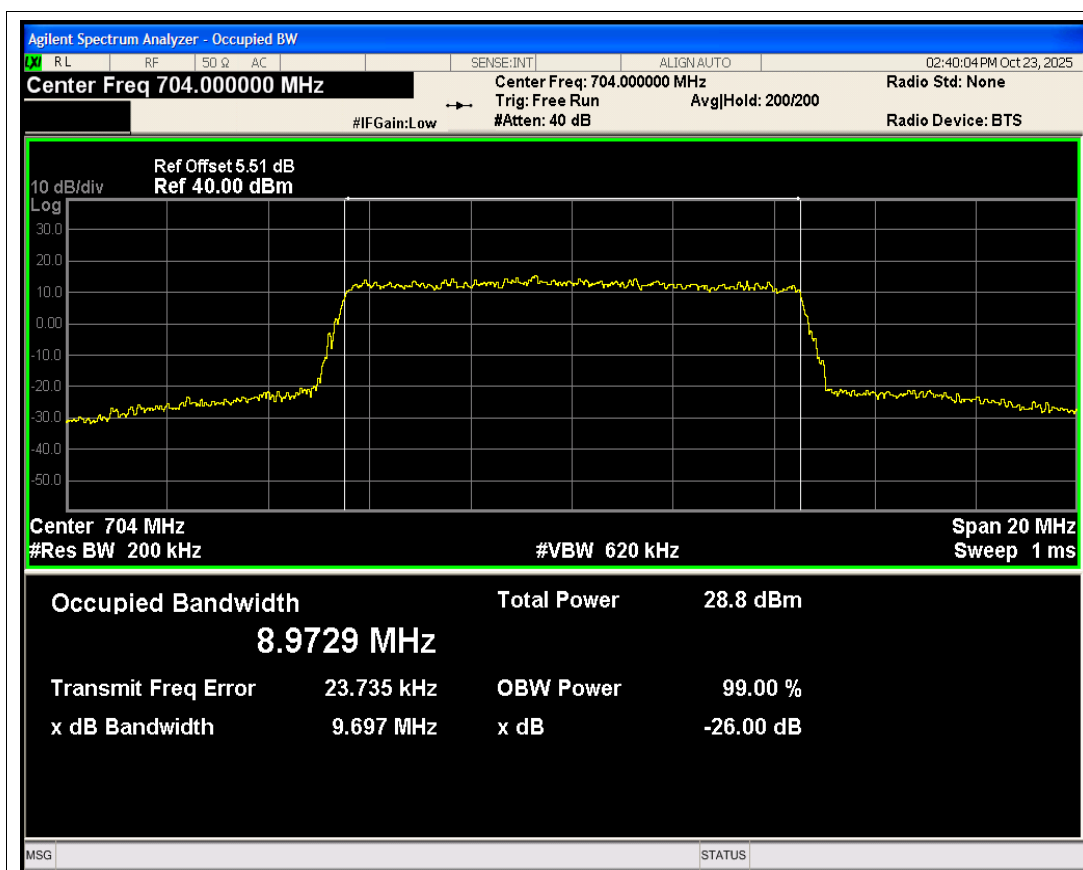


Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0

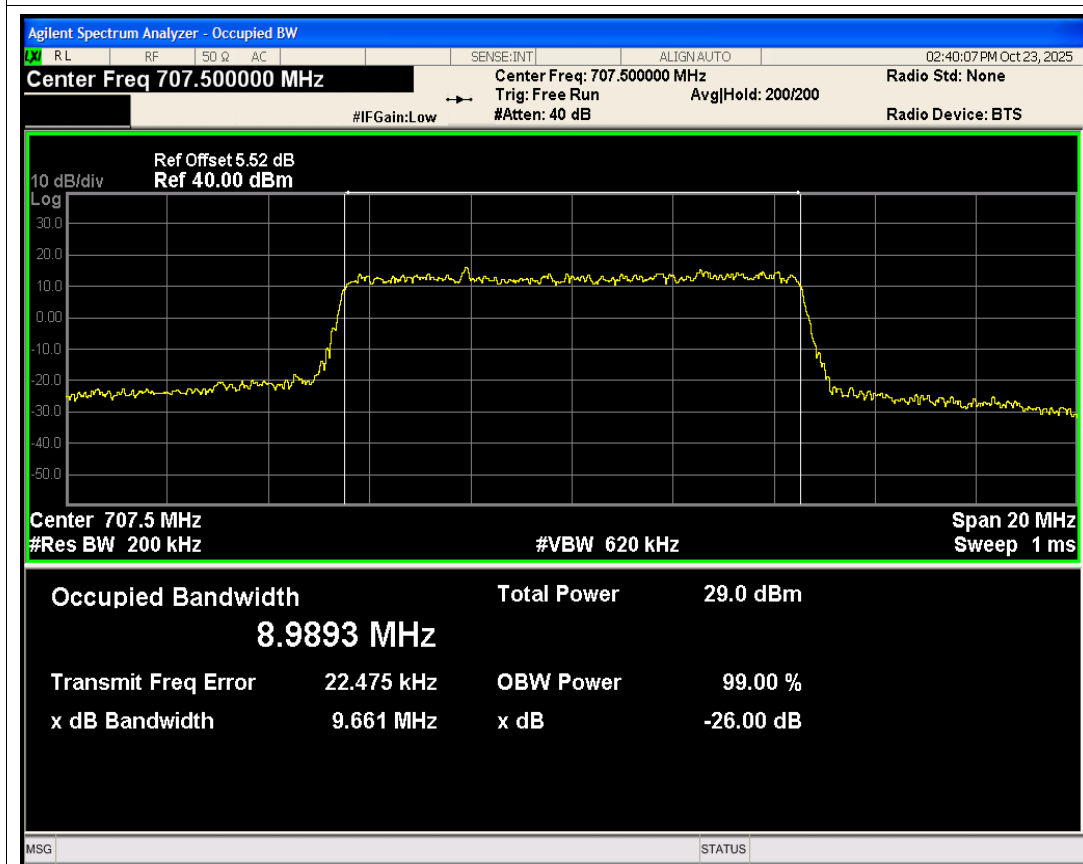


Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12

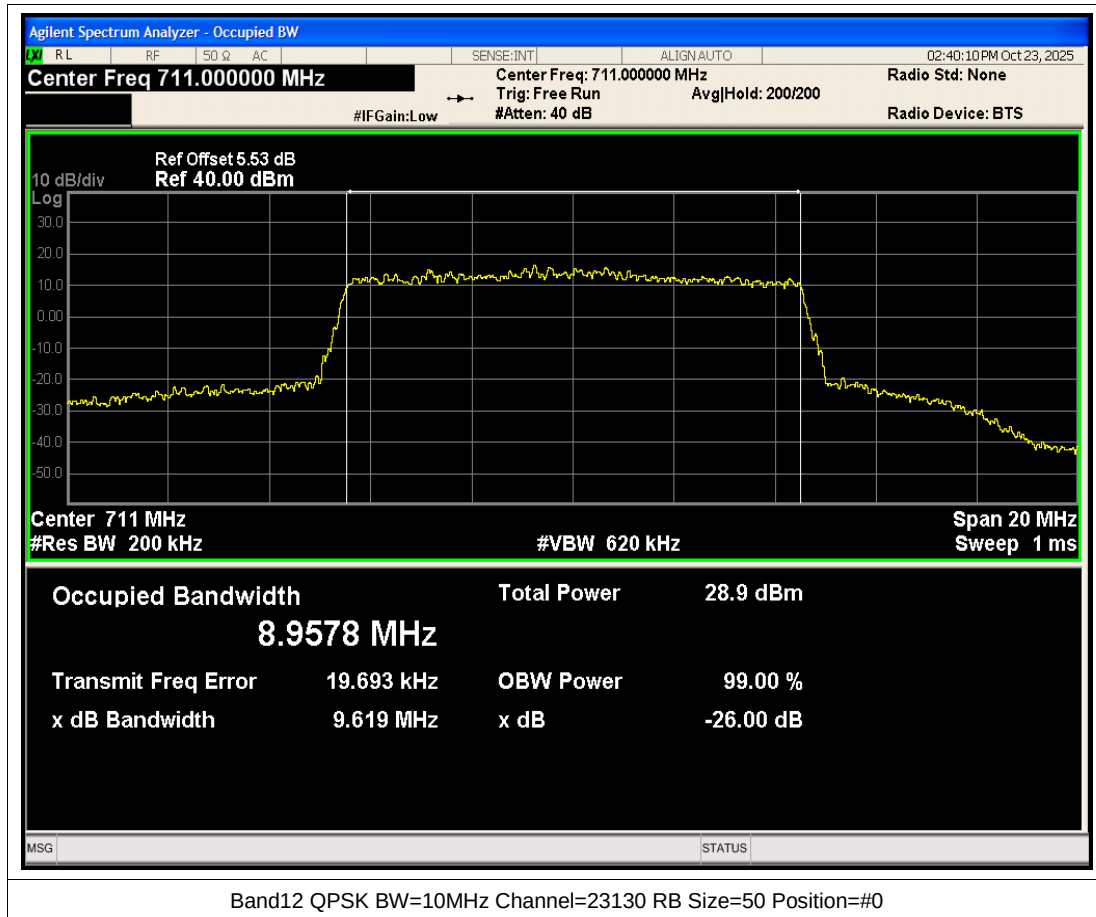


Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



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

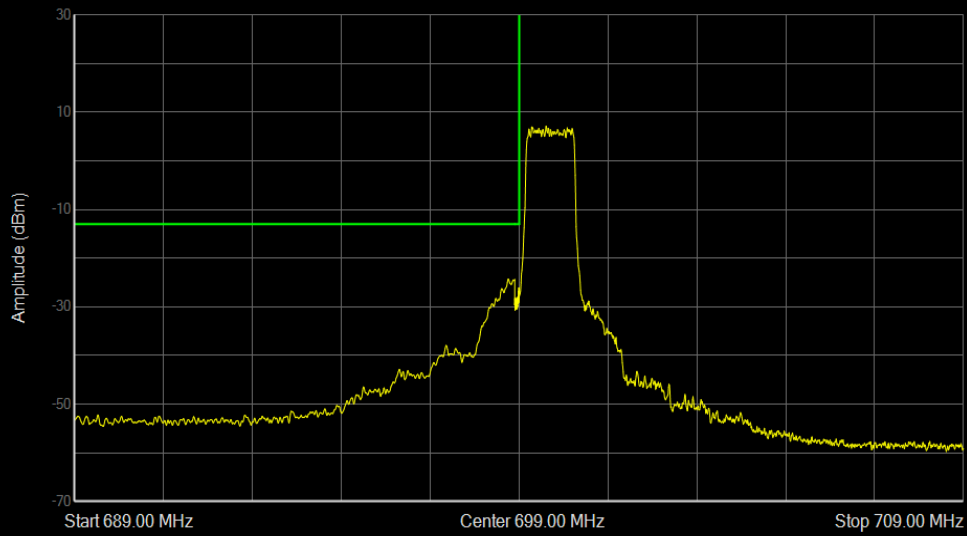
Report No.: STS2512370W01_Appendix LTE Band 12



Appendix 5.Band edge

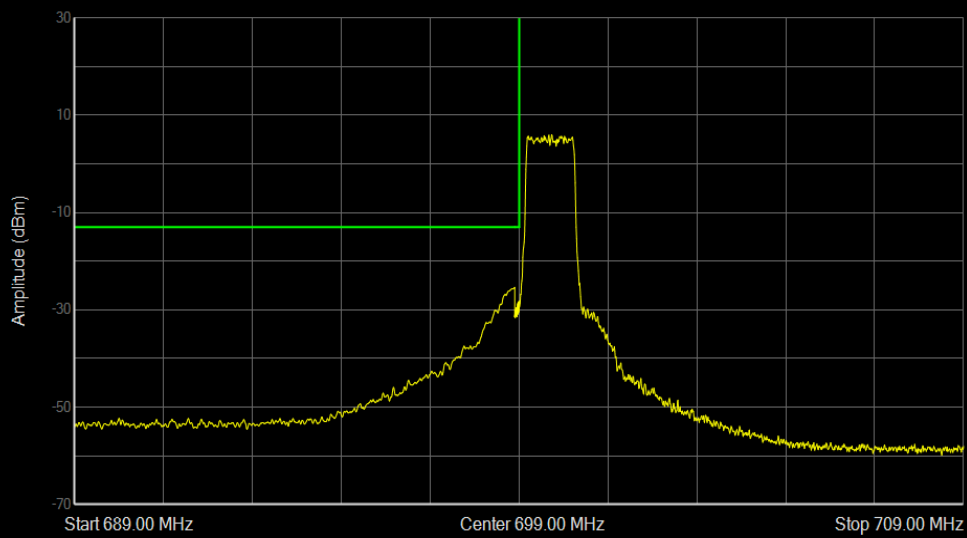
<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
Band12	1.4	23017	6	#0	QPSK	698.75	-24.28	-13	PASS
Band12	1.4	23017	6	#0	16QAM	698.90	-25.40	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.11	-22.92	-13	PASS
Band12	1.4	23173	6	#0	16QAM	716.11	-25.83	-13	PASS
Band12	3	23025	15	#0	QPSK	698.90	-27.51	-13	PASS
Band12	3	23025	15	#0	16QAM	698.86	-27.55	-13	PASS
Band12	3	23165	15	#0	QPSK	716.17	-27.36	-13	PASS
Band12	3	23165	15	#0	16QAM	716.27	-30.04	-13	PASS
Band12	5	23035	25	#0	QPSK	698.68	-29.49	-13	PASS
Band12	5	23035	25	#0	16QAM	698.71	-30.57	-13	PASS
Band12	5	23155	25	#0	QPSK	716.28	-27.44	-13	PASS
Band12	5	23155	25	#0	16QAM	716.30	-29.49	-13	PASS
Band12	10	23060	50	#0	QPSK	698.76	-32.34	-13	PASS
Band12	10	23130	50	#0	QPSK	716.11	-32.31	-13	PASS

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.7515	-24.28	-13
2	698.9	699	30	698.993	-26.1	-13

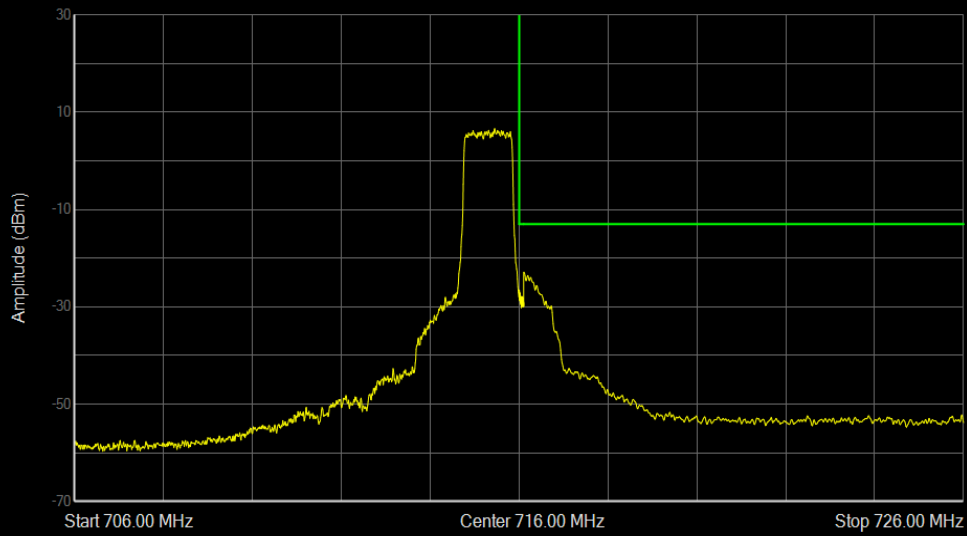
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-25.4	-13
2	698.9	699	30	698.992	-28.3	-13

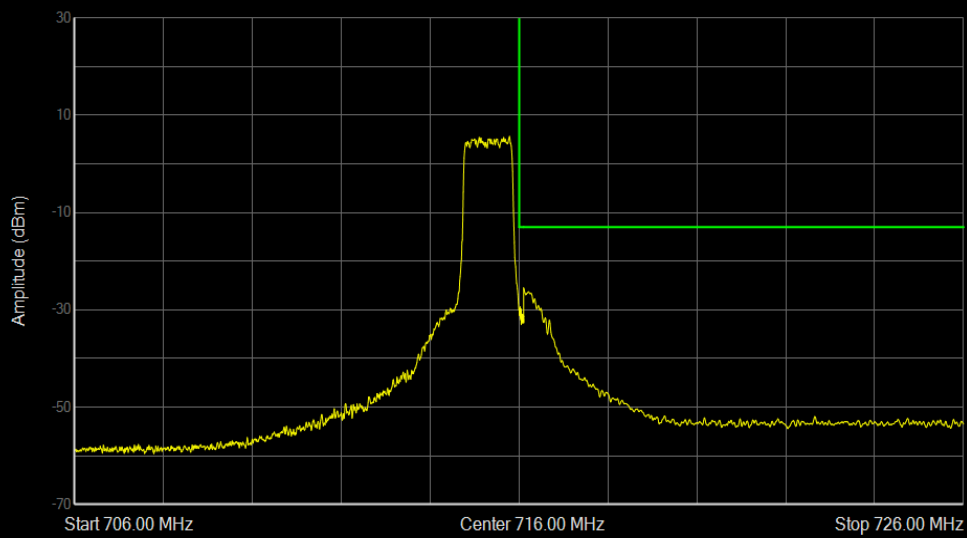
Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0014	-26.58	-13
2	716.1	726	100	716.1099	-22.92	-13

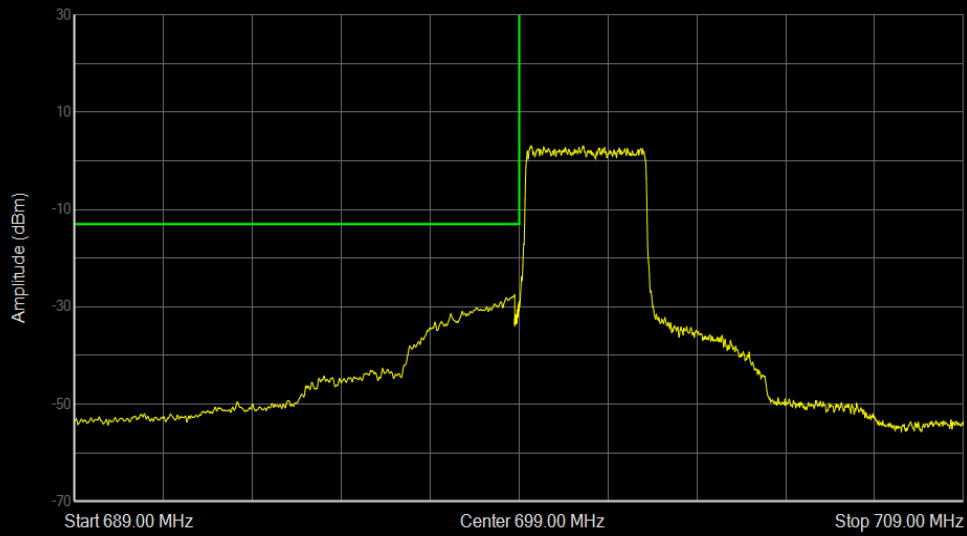
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0197	-29.45	-13
2	716.1	726	100	716.1099	-25.83	-13

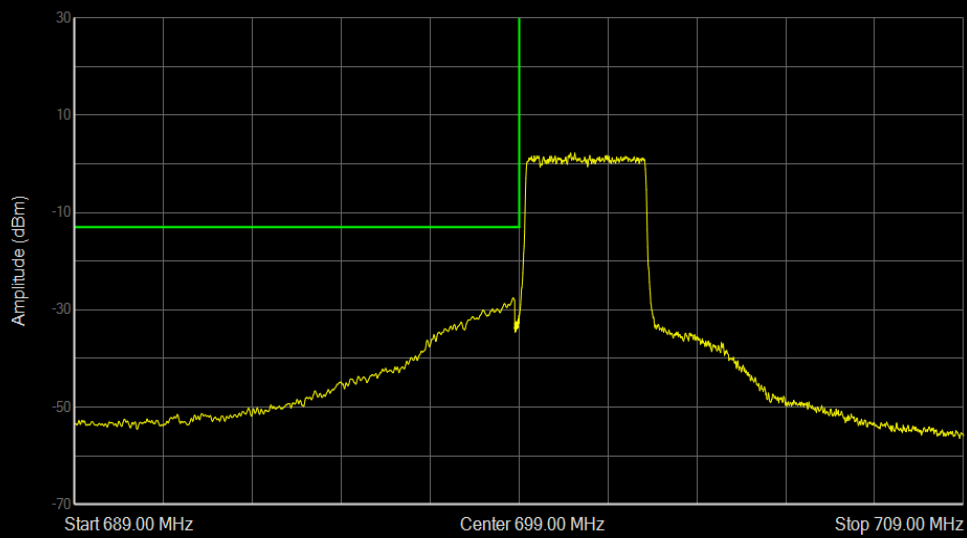
Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.9	-27.51	-13
2	698.9	699	30	698.9961	-29	-13

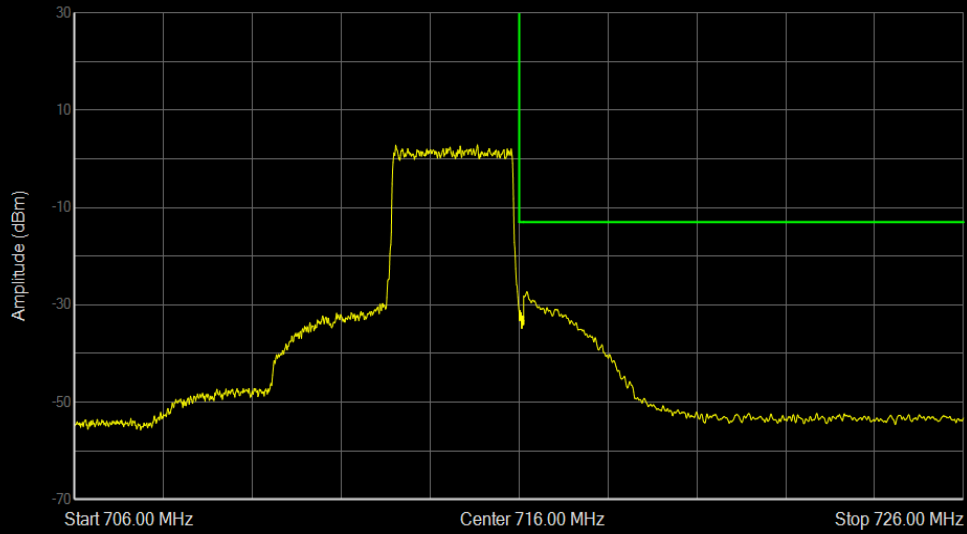
Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.8604	-27.55	-13
2	698.9	699	30	698.9961	-31.11	-13

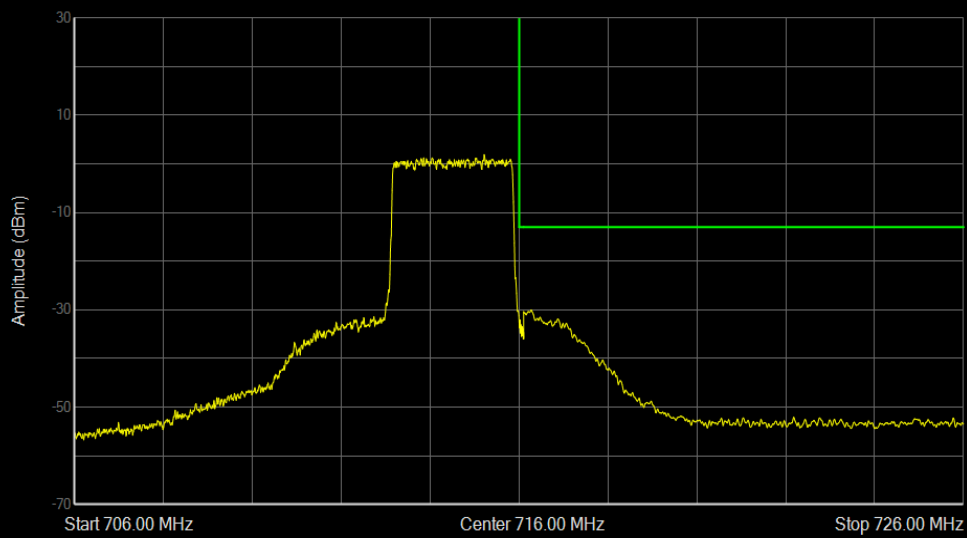
Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0128	-31.24	-13
2	716.1	726	100	716.1693	-27.36	-13

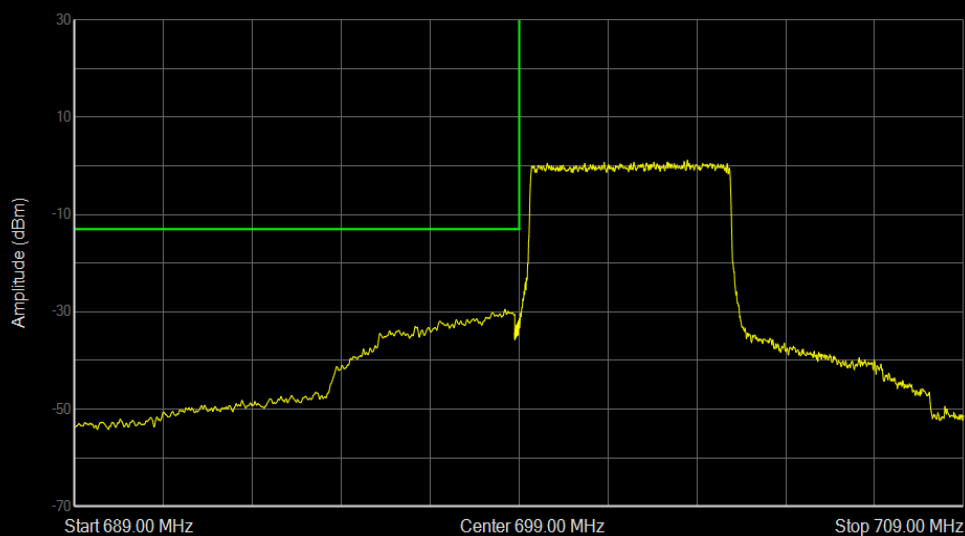
Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0097	-32.17	-13
2	716.1	726	100	716.2683	-30.04	-13

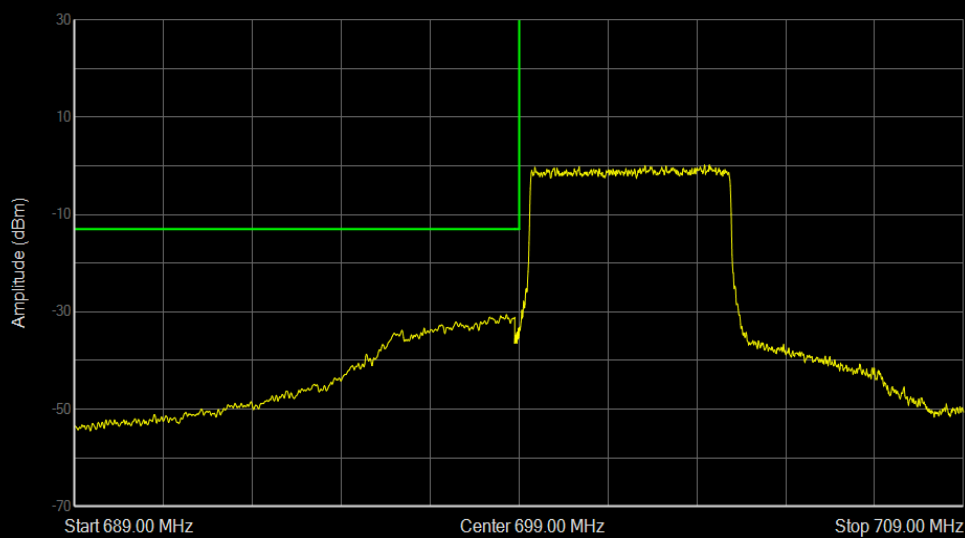
Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.6822	-29.49	-13
2	698.9	699	30	699	-31.44	-13

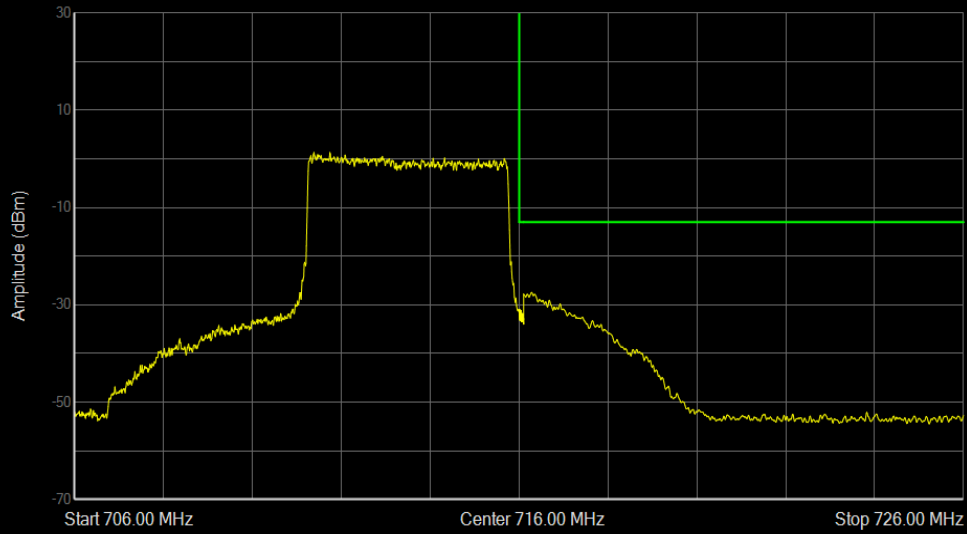
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	689	698.9	100	698.7119	-30.57	-13
2	698.9	699	30	698.9988	-33.32	-13

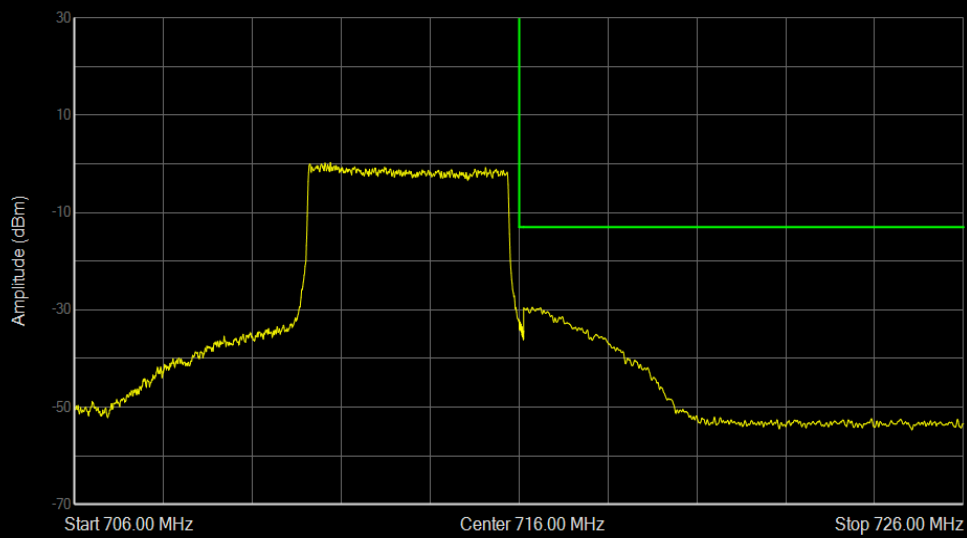
Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0051	-30.99	-13
2	716.1	726	100	716.2782	-27.44	-13

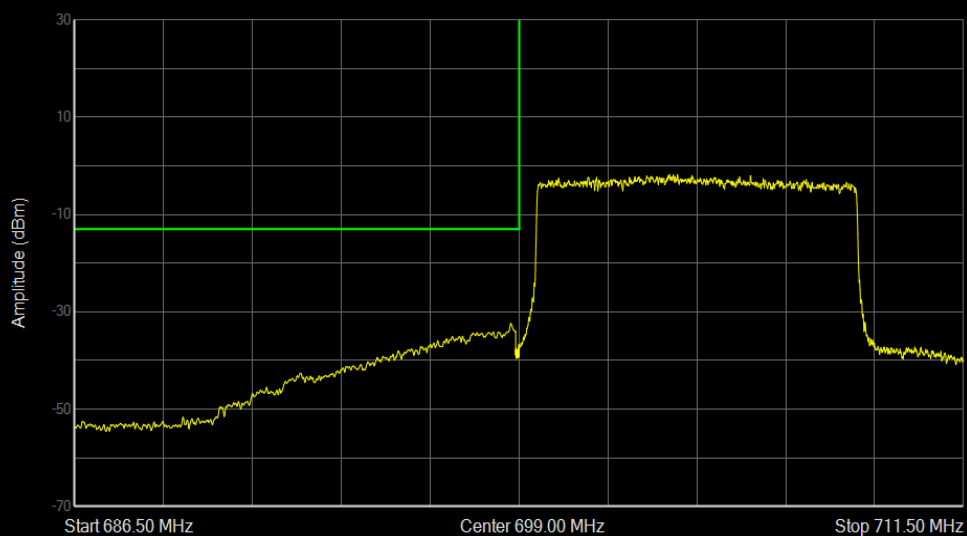
Band12 QPSK BW=5MHz Channel=23155 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0017	-32.16	-13
2	716.1	726	100	716.298	-29.49	-13

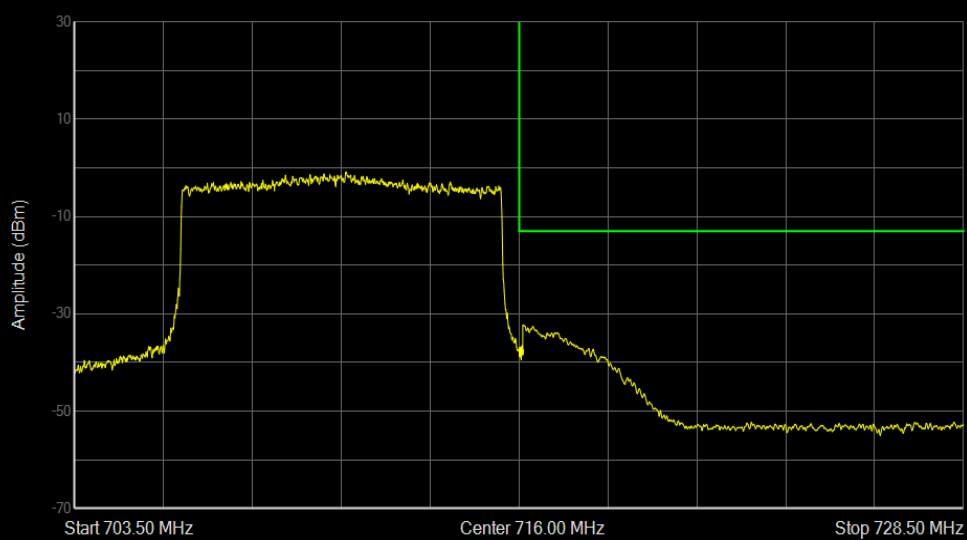
Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.7636	-32.34	-13
2	698.9	699	30	698.9931	-36.74	-13

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



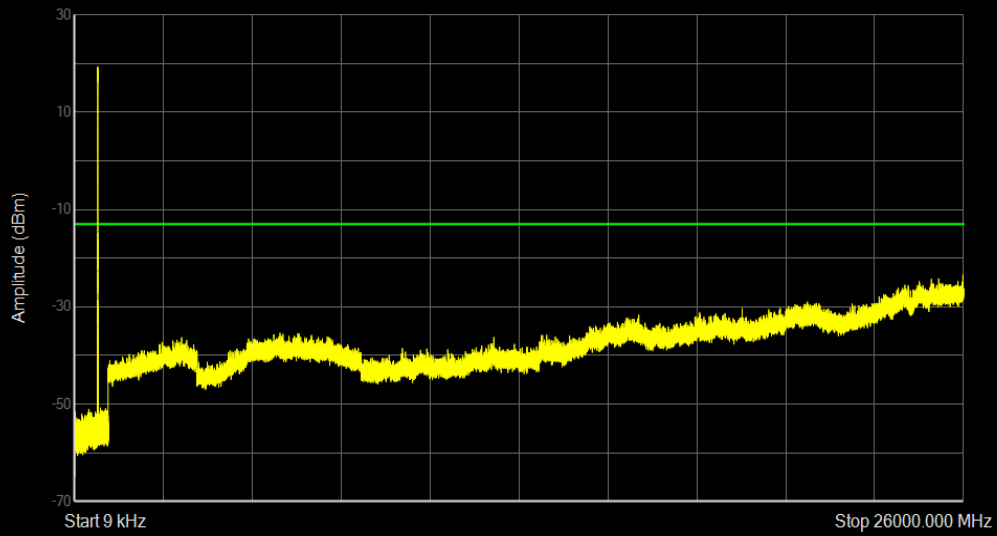
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0819	-36.54	-13
2	716.1	728.5	100	716.1124	-32.31	-13

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

Appendix 6.Out-of-band emissions

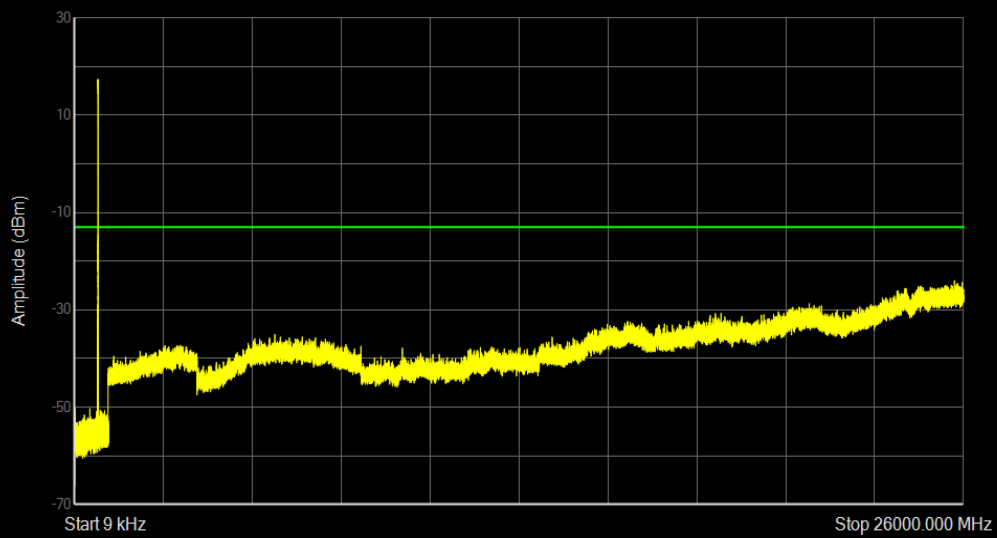
<i>Band</i>	<i>Bandwidth (MHz)</i>	<i>UL Channel</i>	<i>RB Size</i>	<i>RB Position</i>	<i>Modulation</i>	<i>Spur Freq (MHz)</i>	<i>Spur Level (dBm)</i>	<i>Limit (dBm)</i>	<i>Verdict</i>
Band12	1.4	23017	6	#0	QPSK	25681.25	-23.96	-13	PASS
Band12	1.4	23017	6	#0	16QAM	25983.13	-23.43	-13	PASS
Band12	1.4	23095	6	#0	QPSK	25127.50	-24.27	-13	PASS
Band12	1.4	23095	6	#0	16QAM	25735.00	-24.00	-13	PASS
Band12	1.4	23173	6	#0	QPSK	25788.75	-24.17	-13	PASS
Band12	1.4	23173	6	#0	16QAM	25803.13	-23.54	-13	PASS
Band12	3	23025	15	#0	QPSK	25529.38	-23.81	-13	PASS
Band12	3	23025	15	#0	16QAM	25894.38	-24.24	-13	PASS
Band12	3	23095	15	#0	QPSK	25061.25	-23.48	-13	PASS
Band12	3	23095	15	#0	16QAM	25315.63	-24.02	-13	PASS
Band12	3	23165	15	#0	QPSK	25986.88	-24.35	-13	PASS
Band12	3	23165	15	#0	16QAM	25988.75	-23.81	-13	PASS
Band12	5	23035	25	#0	QPSK	25733.13	-24.40	-13	PASS
Band12	5	23035	25	#0	16QAM	24706.25	-23.79	-13	PASS
Band12	5	23095	25	#0	QPSK	25855.63	-23.65	-13	PASS
Band12	5	23095	25	#0	16QAM	25516.25	-23.60	-13	PASS
Band12	5	23155	25	#0	QPSK	25818.13	-23.54	-13	PASS
Band12	5	23155	25	#0	16QAM	25954.38	-23.61	-13	PASS
Band12	10	23060	50	#0	QPSK	24700.00	-23.63	-13	PASS
Band12	10	23095	50	#0	QPSK	25979.38	-24.05	-13	PASS
Band12	10	23130	50	#0	QPSK	25106.88	-23.97	-13	PASS

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0118764	-46.1	-13
2	0.15	30	10	6.093135	-42.91	-13
3	30	1000	100	776.63325	-50.79	-13
4	1000	26000	1000	25983.125	-23.43	-13

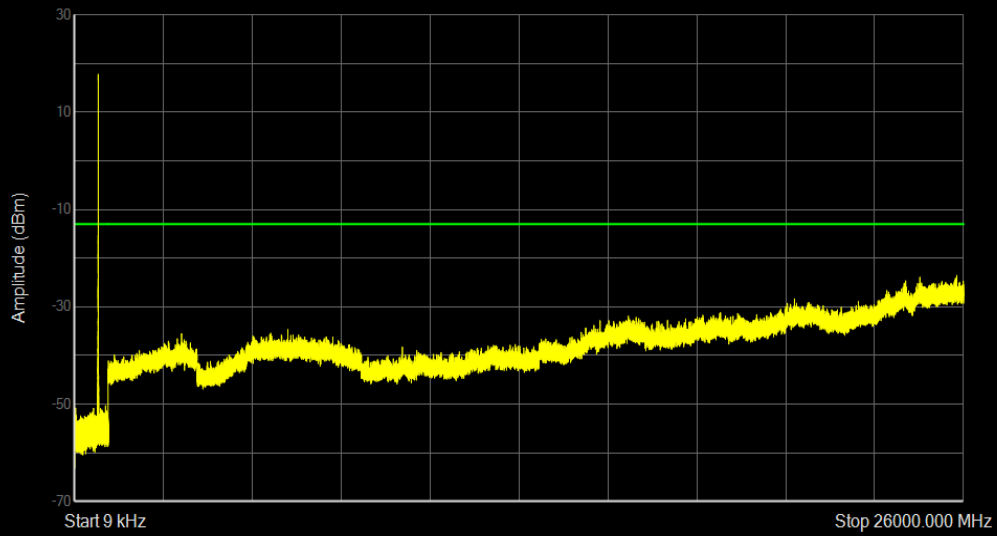
Band12 16QAM BW=1.4MHz Channel=23017 RB Size=6 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010173825	-46.2	-13
2	0.15	30	10	6.12820875	-41.41	-13
3	30	1000	100	30.07275	-50.27	-13
4	1000	26000	1000	25735	-24	-13

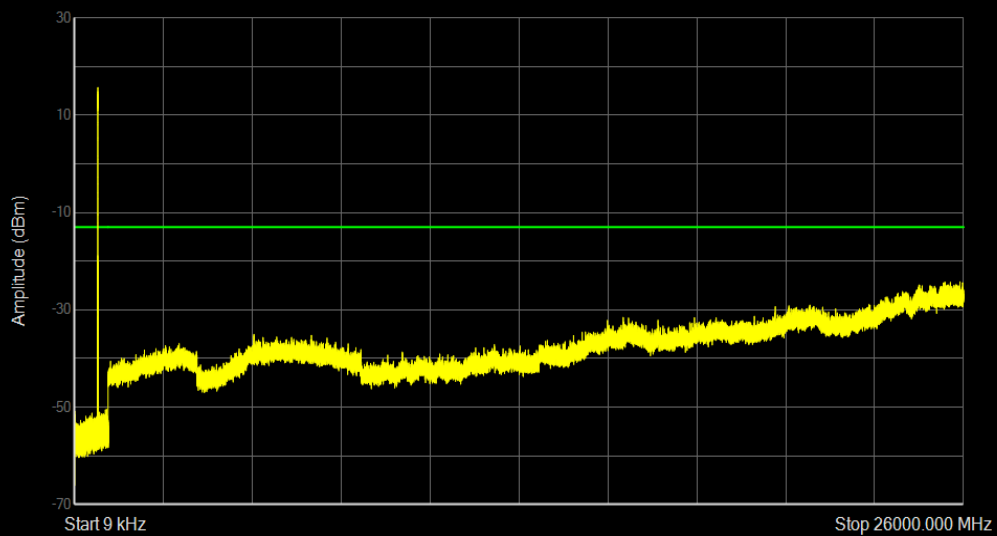
Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0

Report No.: STS2512370W01_Appendix LTE Band 12



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.117108225	-46.41	-13
2	0.15	30	10	6.66103125	-42.04	-13
3	30	1000	100	926.1345	-50.32	-13
4	1000	26000	1000	25803.125	-23.54	-13

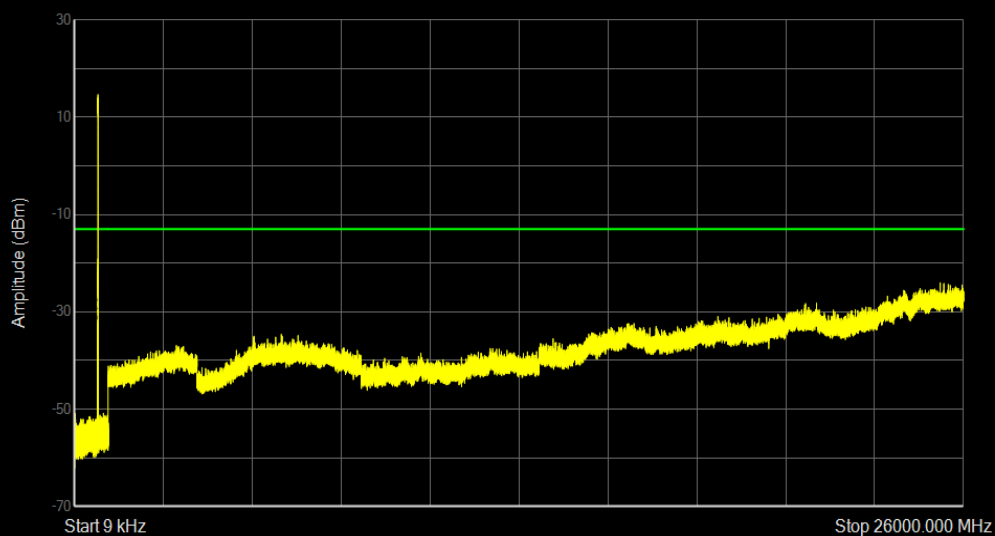
Band12 16QAM BW=1.4MHz Channel=23173 RB Size=6 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-46.31	-13
2	0.15	30	10	6.29238375	-42.31	-13
3	30	1000	100	966.438	-50.47	-13
4	1000	26000	1000	25894.375	-24.24	-13

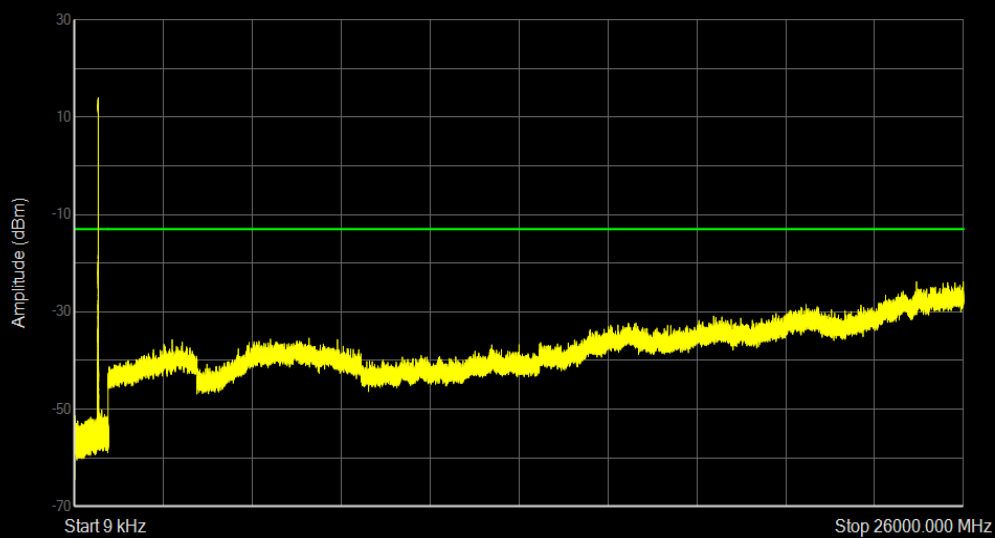
Band12 16QAM BW=3MHz Channel=23025 RB Size=15 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.114577275	-46.94	-13
2	0.15	30	10	6.10432875	-41.01	-13
3	30	1000	100	866.84325	-50.85	-13
4	1000	26000	1000	25315.625	-24.02	-13

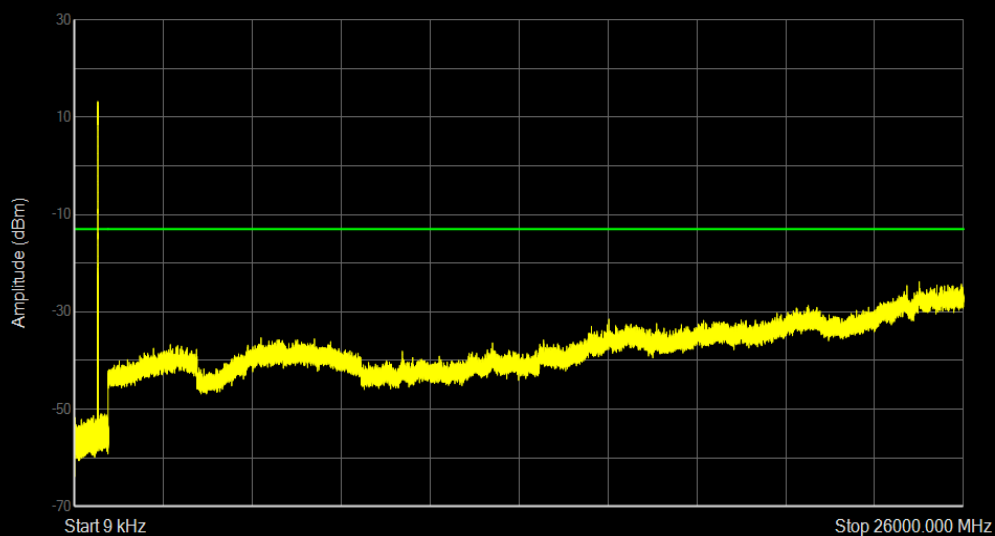
Band12 16QAM BW=3MHz Channel=23095 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01195395	-44.7	-13
2	0.15	30	10	6.00134625	-42.55	-13
3	30	1000	100	815.2635	-50.22	-13
4	1000	26000	1000	25988.75	-23.81	-13

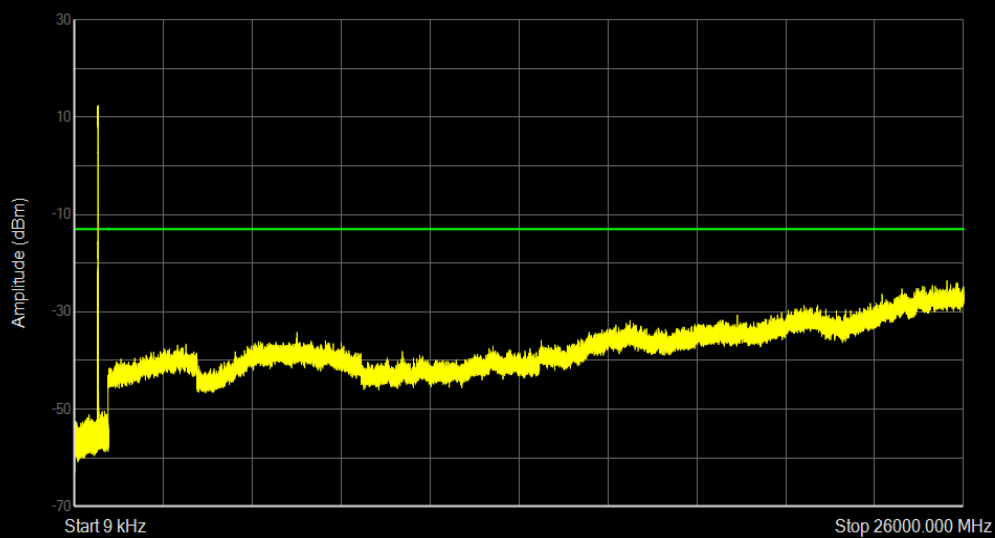
Band12 16QAM BW=3MHz Channel=23165 RB Size=15 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00931725	-45.33	-13
2	0.15	30	10	6.0438825	-42.64	-13
3	30	1000	100	790.98925	-50.99	-13
4	1000	26000	1000	24706.25	-23.79	-13

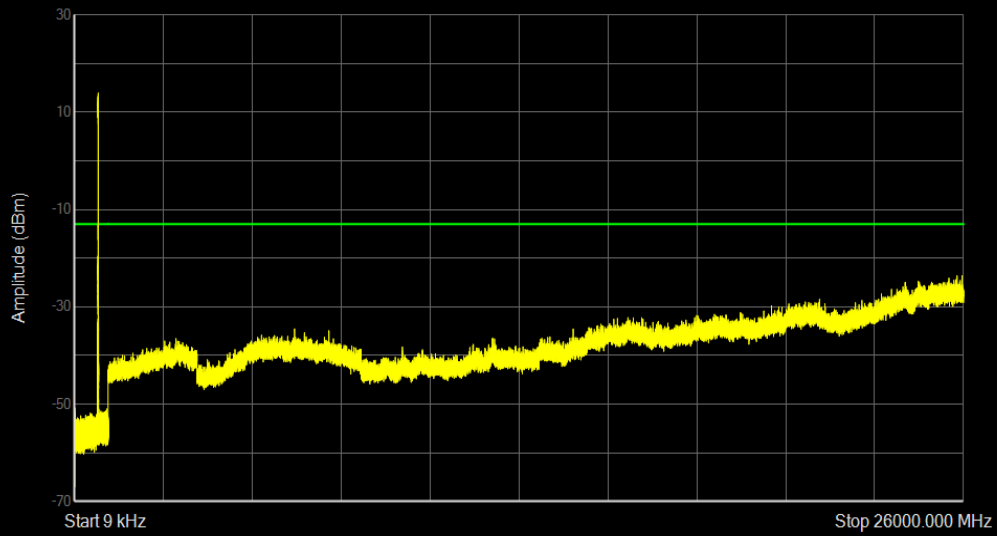
Band12 16QAM BW=5MHz Channel=23035 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01016325	-46.86	-13
2	0.15	30	10	6.05358375	-42.87	-13
3	30	1000	100	899.96875	-50.4	-13
4	1000	26000	1000	25516.25	-23.6	-13

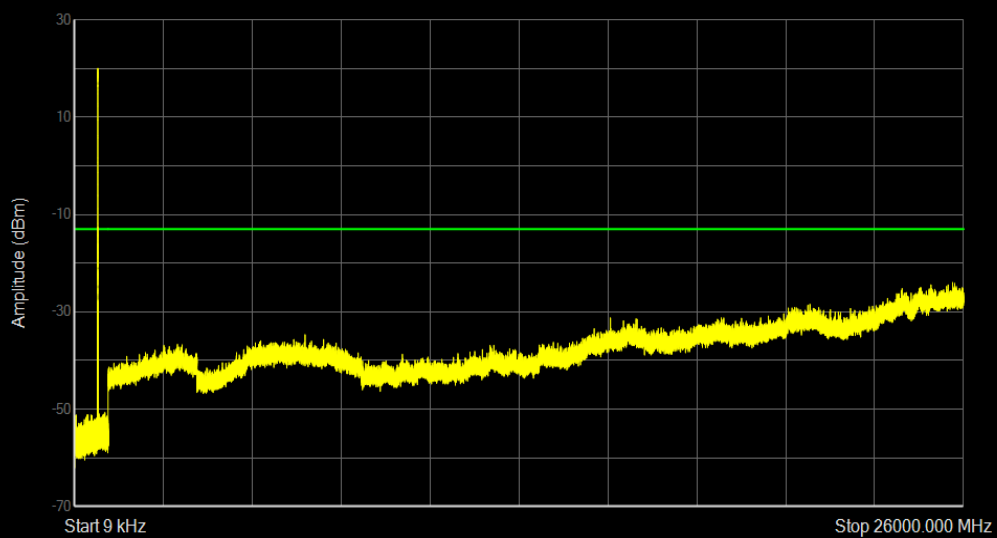
Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009172725	-46.4	-13
2	0.15	30	10	6.11477625	-41.86	-13
3	30	1000	100	30.291	-50.79	-13
4	1000	26000	1000	25954.375	-23.61	-13

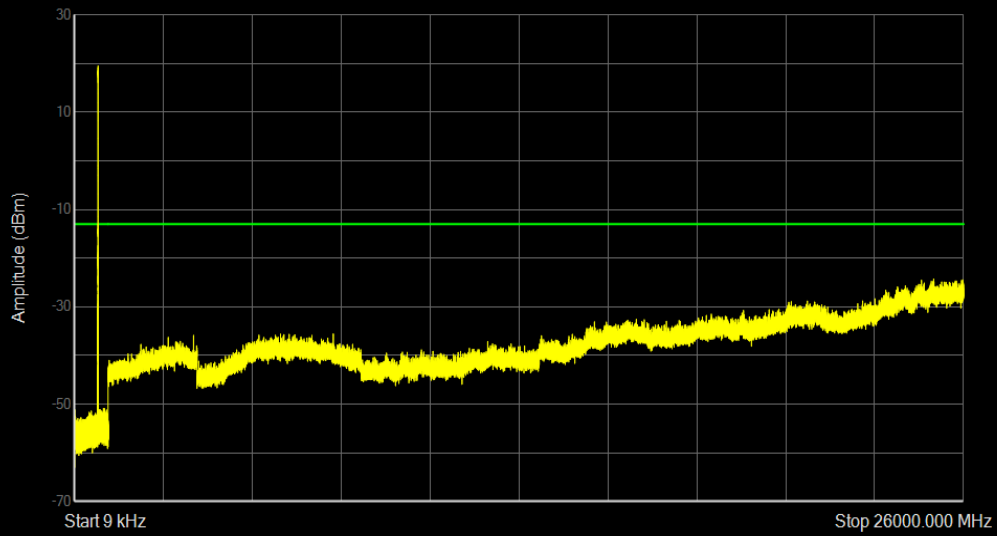
Band12 16QAM BW=5MHz Channel=23155 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00900705	-45.27	-13
2	0.15	30	10	6.1065675	-40.84	-13
3	30	1000	100	693.383	-48.95	-13
4	1000	26000	1000	25681.25	-23.96	-13

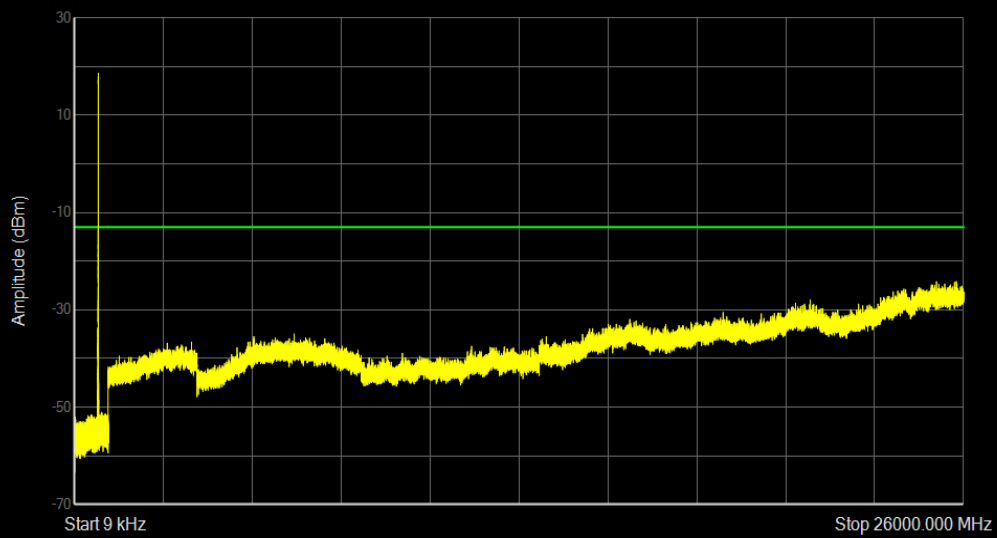
Band12 QPSK BW=1.4MHz Channel=23017 RB Size=6 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.115388025	-47.25	-13
2	0.15	30	10	6.1065675	-41.93	-13
3	30	1000	100	864.75775	-50.88	-13
4	1000	26000	1000	25127.5	-24.27	-13

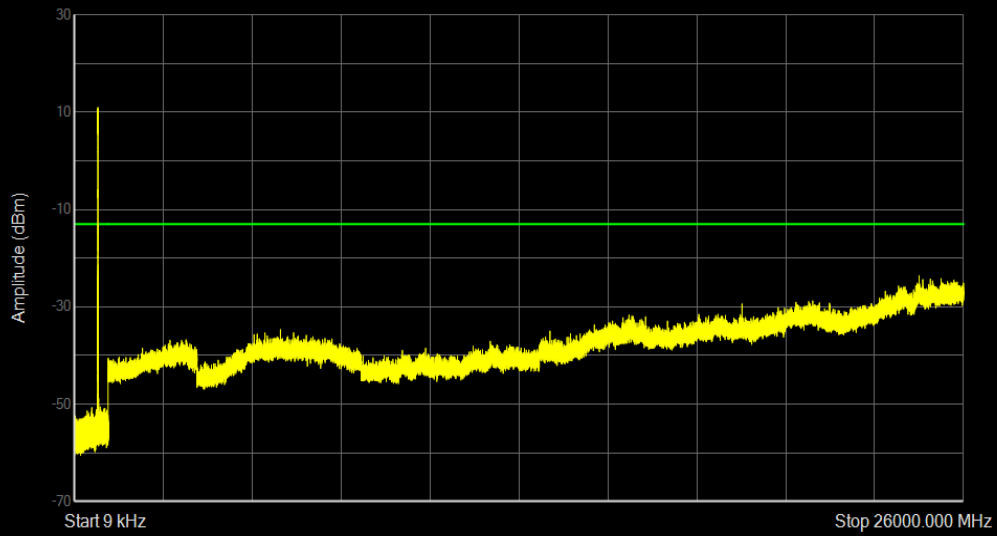
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.117439575	-46.35	-13
2	0.15	30	10	6.05059875	-43.01	-13
3	30	1000	100	816.16075	-51.07	-13
4	1000	26000	1000	25788.75	-24.17	-13

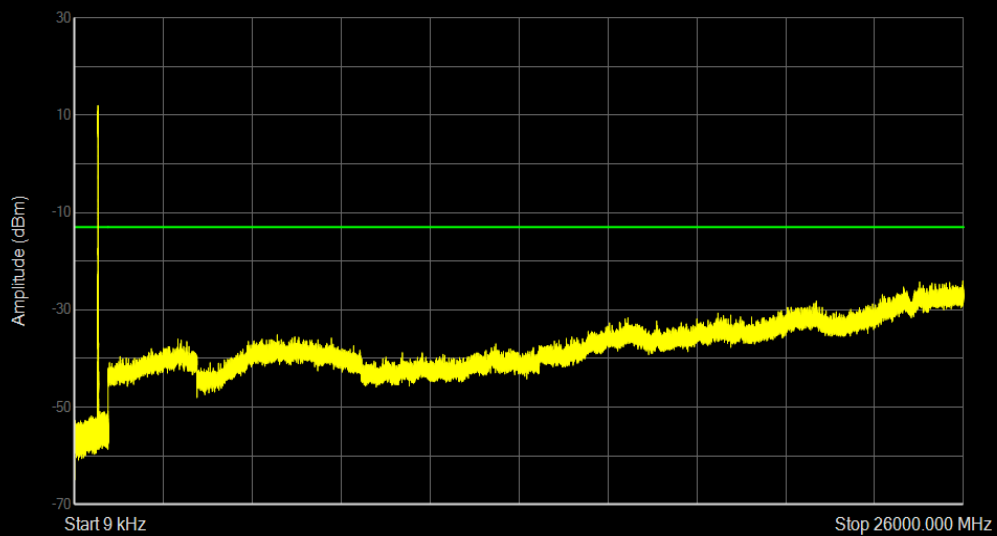
Band12 QPSK BW=1.4MHz Channel=23173 RB Size=6 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-44.74	-13
2	0.15	30	10	6.4737225	-43.19	-13
3	30	1000	100	767.61225	-50.55	-13
4	1000	26000	1000	24700	-23.63	-13

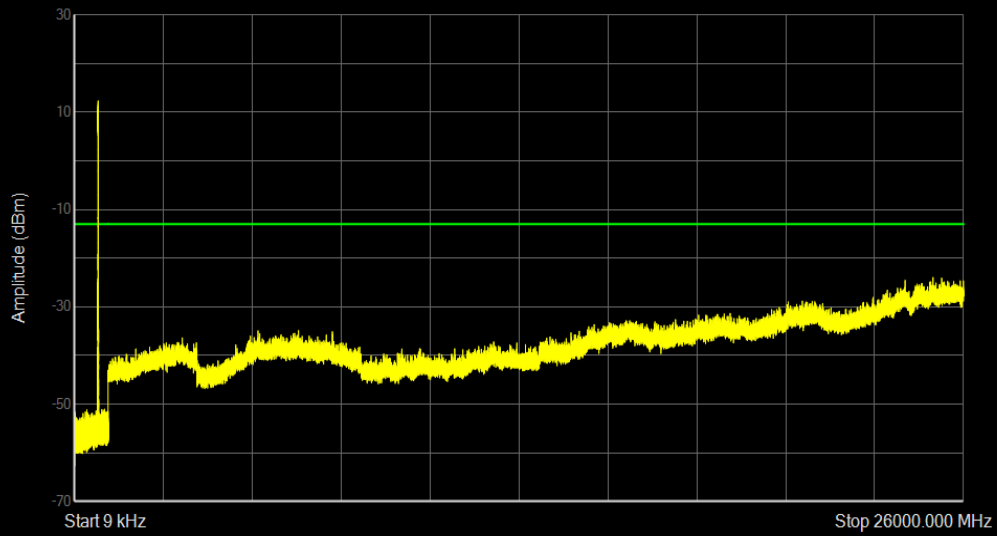
Band12 QPSK BW=10MHz Channel=23060 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.116170575	-47.27	-13
2	0.15	30	10	6.10283625	-42.4	-13
3	30	1000	100	994.762	-50.78	-13
4	1000	26000	1000	25979.375	-24.05	-13

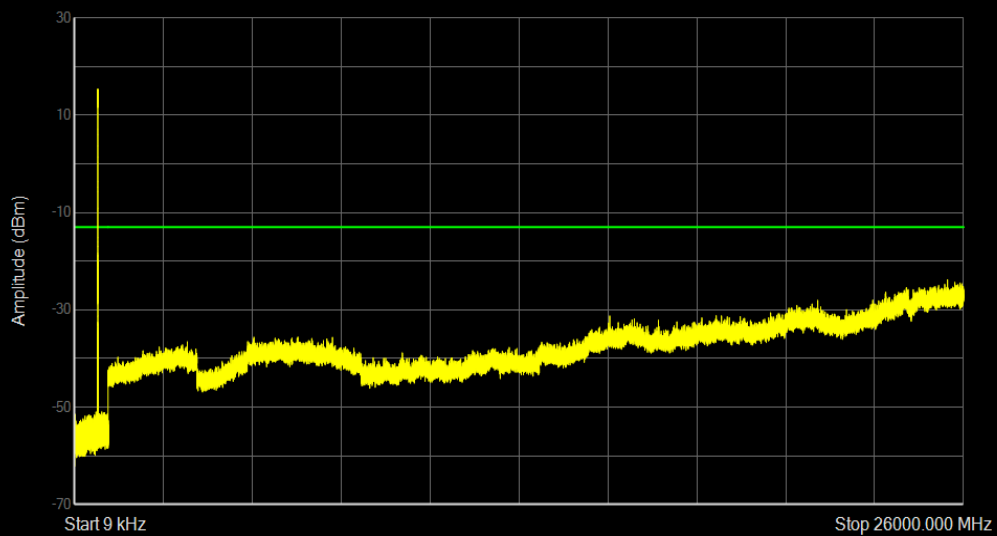
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.115324575	-46.78	-13
2	0.15	30	10	6.06627	-41.99	-13
3	30	1000	100	900.06575	-51.03	-13
4	1000	26000	1000	25106.875	-23.97	-13

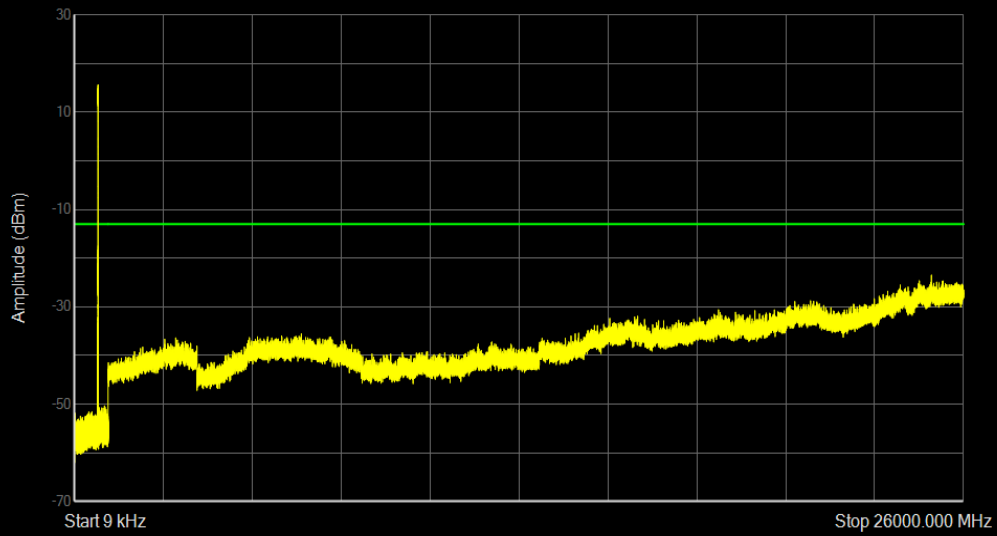
Band12 QPSK BW=10MHz Channel=23130 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0099024	-45.47	-13
2	0.15	30	10	5.9961225	-43.71	-13
3	30	1000	100	817.4945	-50.97	-13
4	1000	26000	1000	25529.375	-23.81	-13

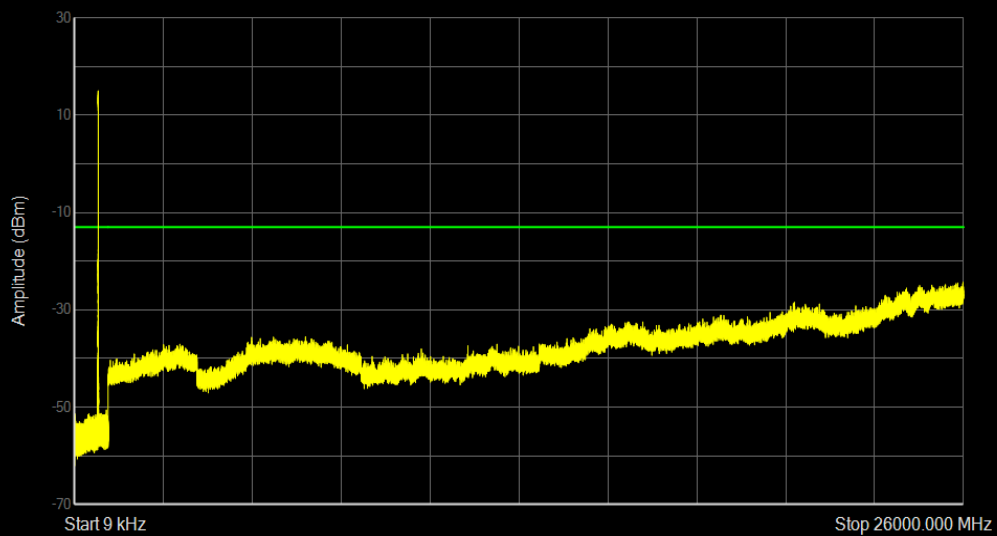
Band12 QPSK BW=3MHz Channel=23025 RB Size=15 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01033245	-45.53	-13
2	0.15	30	10	6.11925375	-42.09	-13
3	30	1000	100	896.62225	-50.37	-13
4	1000	26000	1000	25061.25	-23.48	-13

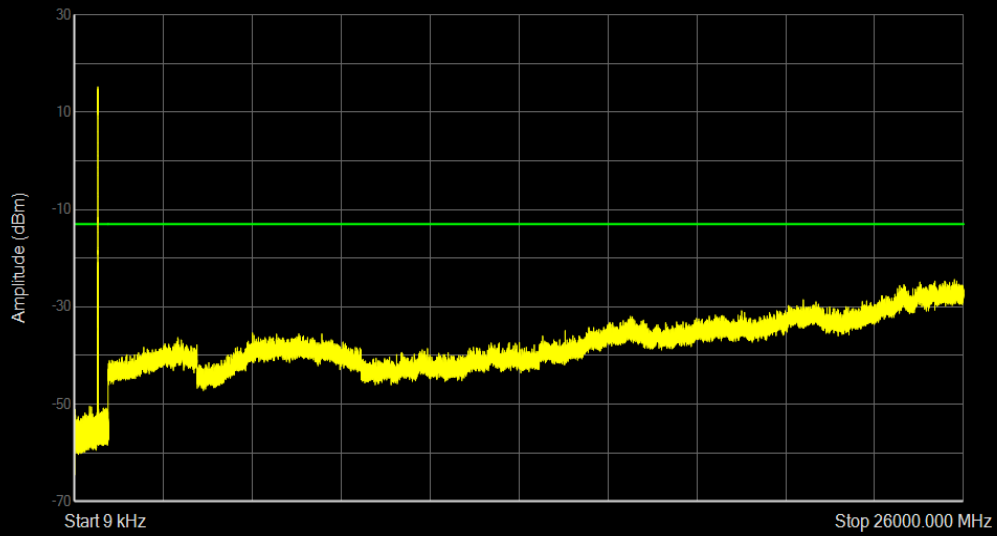
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0097755	-44.83	-13
2	0.15	30	10	6.111045	-41.29	-13
3	30	1000	100	950.60275	-50.58	-13
4	1000	26000	1000	25986.875	-24.35	-13

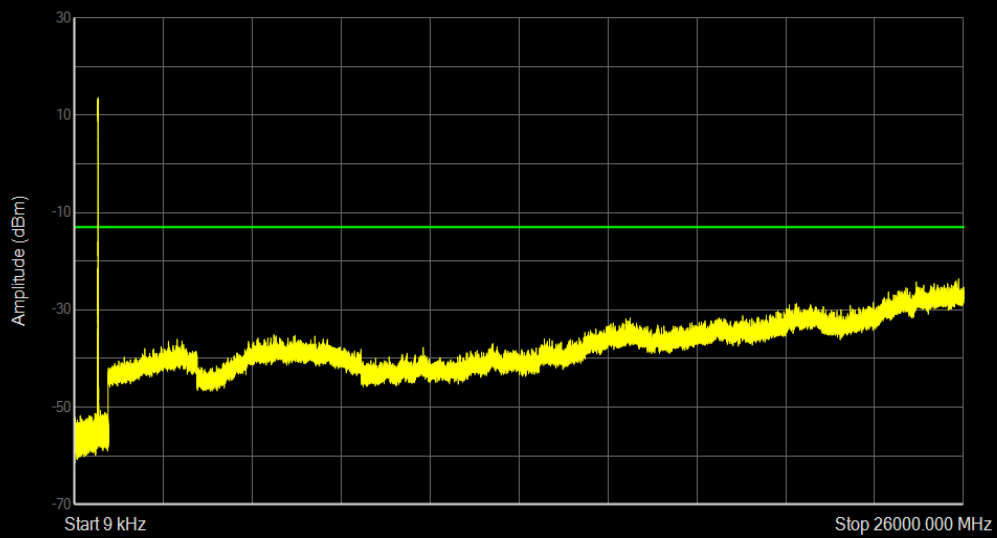
Band12 QPSK BW=3MHz Channel=23165 RB Size=15 Position=#0

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009165675	-45.32	-13
2	0.15	30	10	6.10806	-42.11	-13
3	30	1000	100	458.8855	-50.48	-13
4	1000	26000	1000	25733.125	-24.4	-13

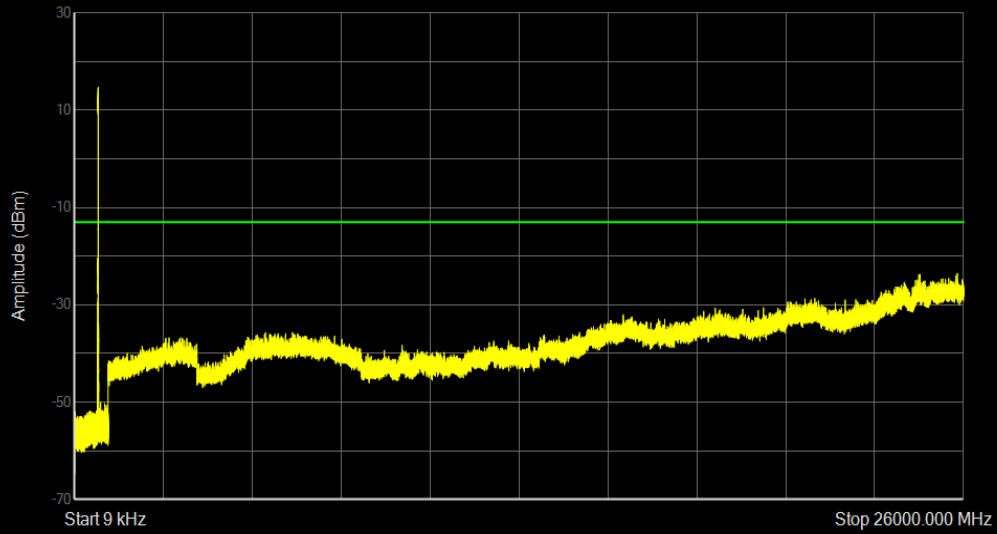
Band12 QPSK BW=5MHz Channel=23035 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010209075	-45.78	-13
2	0.15	30	10	6.099105	-42.06	-13
3	30	1000	100	776.6575	-50.74	-13
4	1000	26000	1000	25855.625	-23.65	-13

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

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Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009638025	-46.86	-13
2	0.15	30	10	6.1065675	-42.11	-13
3	30	1000	100	782.429	-50.05	-13
4	1000	26000	1000	25818.125	-23.54	-13

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