

Appendix A _ Conducted Test Data

A1 Conducted output power and EIRP

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band7	5	20775	1	#0	QAM16	21.74	-5.5	16.24	33	PASS
Band7	5	20775	1	#Mid	QAM16	22.14	-5.5	16.64	33	PASS
Band7	5	20775	1	#Max	QAM16	21.78	-5.5	16.28	33	PASS
Band7	5	20775	12	#0	QAM16	20.63	-5.5	15.13	33	PASS
Band7	5	20775	12	#Mid	QAM16	20.50	-5.5	15.00	33	PASS
Band7	5	20775	12	#Max	QAM16	20.59	-5.5	15.09	33	PASS
Band7	5	20775	25	#0	QAM16	20.70	-5.5	15.2	33	PASS
Band7	5	21100	1	#0	QAM16	21.92	-5.5	16.42	33	PASS
Band7	5	21100	1	#Mid	QAM16	21.90	-5.5	16.4	33	PASS
Band7	5	21100	1	#Max	QAM16	21.80	-5.5	16.3	33	PASS
Band7	5	21100	12	#0	QAM16	20.69	-5.5	15.19	33	PASS
Band7	5	21100	12	#Mid	QAM16	20.89	-5.5	15.39	33	PASS
Band7	5	21100	12	#Max	QAM16	20.91	-5.5	15.41	33	PASS
Band7	5	21100	25	#0	QAM16	21.16	-5.5	15.66	33	PASS
Band7	5	21425	1	#0	QAM16	22.10	-5.5	16.60	33	PASS
Band7	5	21425	1	#Mid	QAM16	21.92	-5.5	16.42	33	PASS
Band7	5	21425	1	#Max	QAM16	22.08	-5.5	16.58	33	PASS
Band7	5	21425	12	#0	QAM16	20.94	-5.5	15.44	33	PASS
Band7	5	21425	12	#Mid	QAM16	20.86	-5.5	15.36	33	PASS
Band7	5	21425	12	#Max	QAM16	20.88	-5.5	15.38	33	PASS
Band7	5	21425	25	#0	QAM16	20.99	-5.5	15.49	33	PASS
Band7	5	20775	1	#0	QPSK	22.26	-5.5	16.76	33	PASS
Band7	5	20775	1	#Mid	QPSK	22.54	-5.5	17.04	33	PASS
Band7	5	20775	1	#Max	QPSK	22.50	-5.5	17.00	33	PASS
Band7	5	20775	12	#0	QPSK	21.61	-5.5	16.11	33	PASS
Band7	5	20775	12	#Mid	QPSK	21.54	-5.5	16.04	33	PASS
Band7	5	20775	12	#Max	QPSK	21.52	-5.5	16.02	33	PASS
Band7	5	20775	25	#0	QPSK	21.65	-5.5	16.15	33	PASS
Band7	5	21100	1	#0	QPSK	22.97	-5.5	17.47	33	PASS
Band7	5	21100	1	#Mid	QPSK	22.91	-5.5	17.41	33	PASS
Band7	5	21100	1	#Max	QPSK	22.73	-5.5	17.23	33	PASS
Band7	5	21100	12	#0	QPSK	22.02	-5.5	16.52	33	PASS
Band7	5	21100	12	#Mid	QPSK	21.93	-5.5	16.43	33	PASS
Band7	5	21100	12	#Max	QPSK	21.95	-5.5	16.45	33	PASS
Band7	5	21100	25	#0	QPSK	21.99	-5.5	16.49	33	PASS
Band7	5	21425	1	#0	QPSK	22.76	-5.5	17.26	33	PASS
Band7	5	21425	1	#Mid	QPSK	22.94	-5.5	17.44	33	PASS
Band7	5	21425	1	#Max	QPSK	22.99	-5.5	17.49	33	PASS



Report No.:SHATBL2410006W03

Band7	5	21425	12	#0	QPSK	21.97	-5.5	16.47	33	PASS
Band7	5	21425	12	#Mid	QPSK	21.90	-5.5	16.40	33	PASS
Band7	5	21425	12	#Max	QPSK	21.98	-5.5	16.48	33	PASS
Band7	5	21425	25	#0	QPSK	22.00	-5.5	16.50	33	PASS

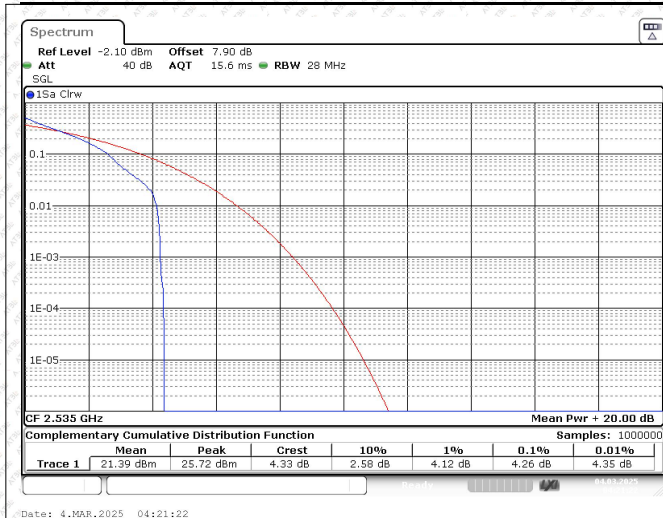
A2 Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20525	25	#0	QPSK	VL	NT	-0.97	-0.001	PASS
Band7	5	20525	25	#0	QPSK	VN	NT	-0.04	0.000	PASS
Band7	5	20525	25	#0	QPSK	VH	NT	-1.26	-0.002	PASS

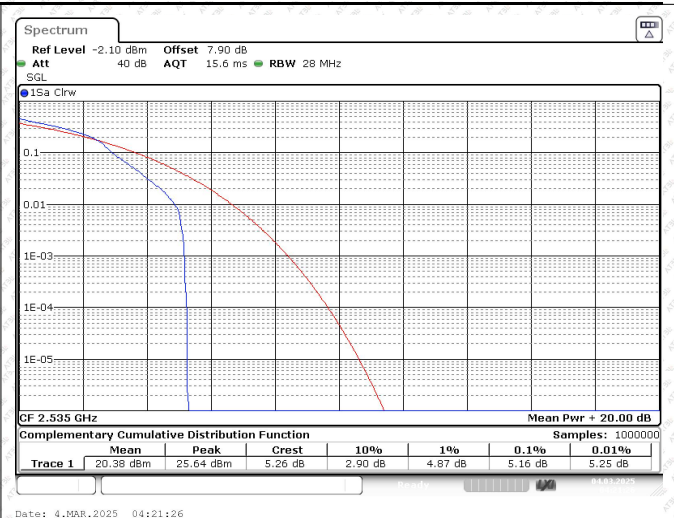
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (°C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20525	25	#0	QPSK	NV	-30	-0.82	-0.001	PASS
Band7	5	20525	25	#0	QPSK	NV	-20	1.27	0.002	PASS
Band7	5	20525	25	#0	QPSK	NV	-10	-0.79	-0.001	PASS
Band7	5	20525	25	#0	QPSK	NV	0	-1.59	-0.002	PASS
Band7	5	20525	25	#0	QPSK	NV	10	-1.1	-0.001	PASS
Band7	5	20525	25	#0	QPSK	NV	20	-0.56	-0.001	PASS
Band7	5	20525	25	#0	QPSK	NV	30	-1.89	-0.002	PASS
Band7	5	20525	25	#0	QPSK	NV	40	0.41	0.000	PASS
Band7	5	20525	25	#0	QPSK	NV	50	1.09	0.001	PASS

A3 Peak-to-Average Ratio

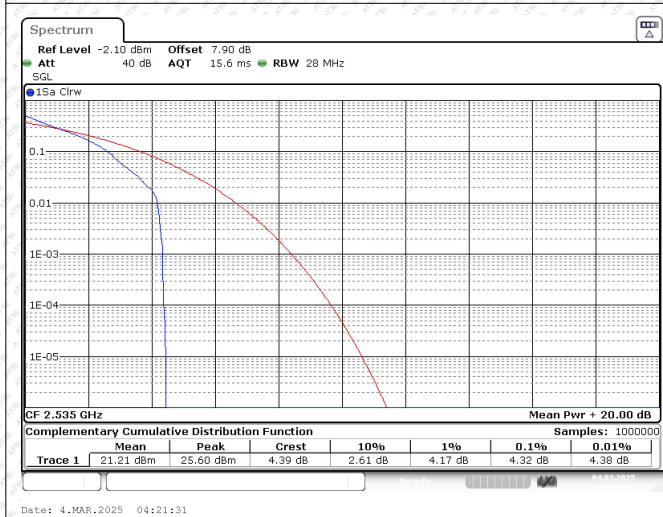
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	21100	1	#0	QAM16	5.16	13	PASS
Band7	10	21100	1	#0	QAM16	5.22	13	PASS
Band7	15	21100	1	#0	QAM16	5.13	13	PASS
Band7	20	21100	1	#0	QAM16	5.22	13	PASS
Band7	5	21100	1	#0	QPSK	4.26	13	PASS
Band7	10	21100	1	#0	QPSK	4.32	13	PASS
Band7	15	21100	1	#0	QPSK	4.35	13	PASS
Band7	20	21100	1	#0	QPSK	4.38	13	PASS



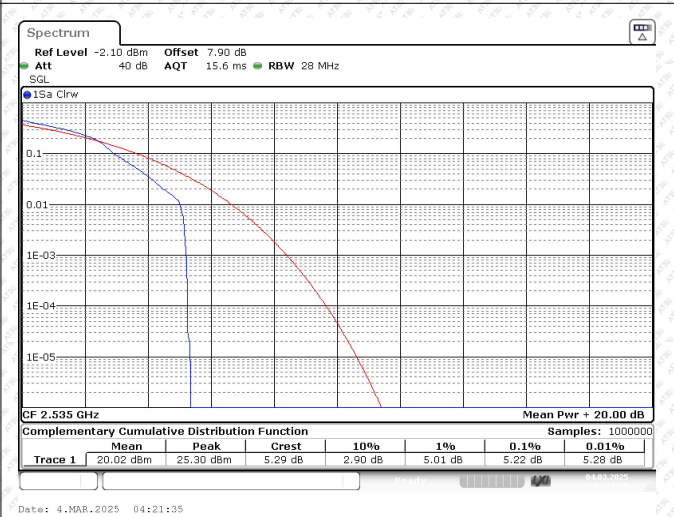
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



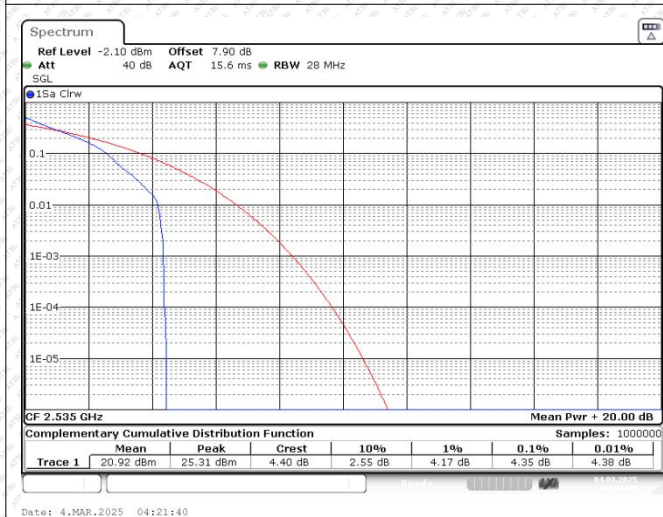
Band7 QAM16 BW=5MHz Channel=21100 RB Size=1 Position=#0



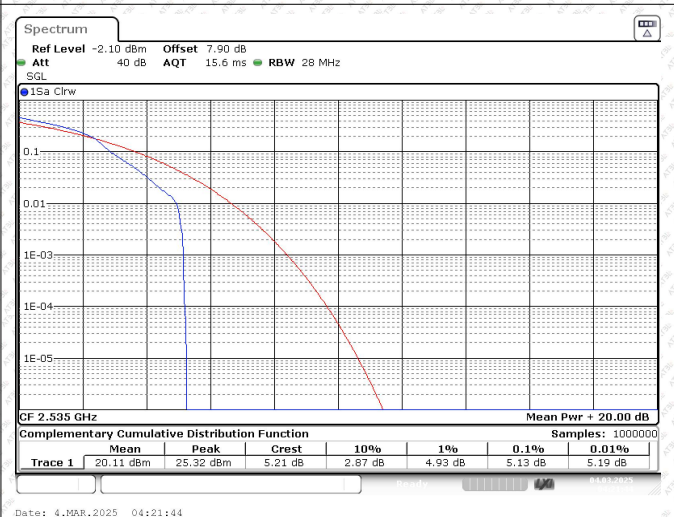
Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



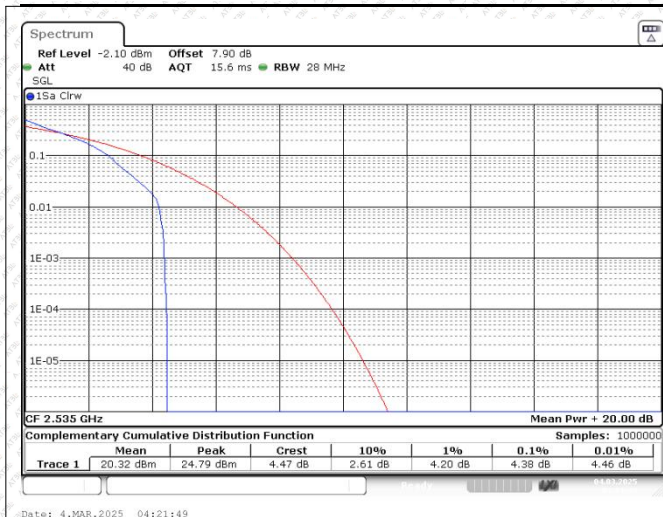
Band7 QAM16 BW=10MHz Channel=21100 RB Size=1 Position=#0



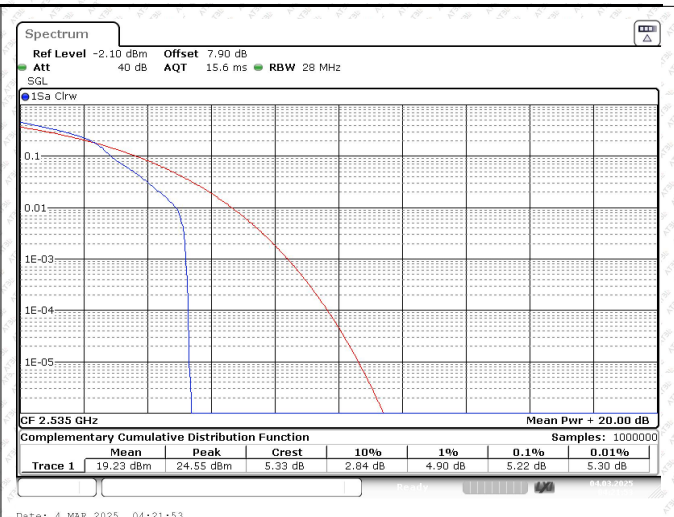
Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



Band7 QAM16 BW=15MHz Channel=21100 RB Size=1 Position=#0



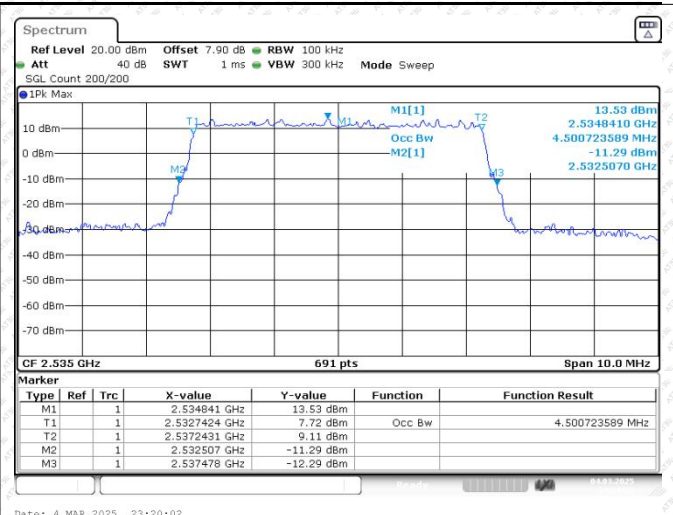
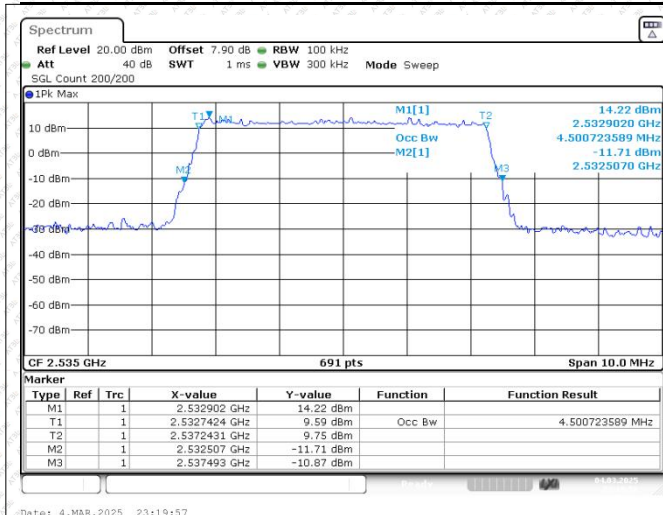
Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



Band7 QAM16 BW=20MHz Channel=21100 RB Size=1 Position=#0

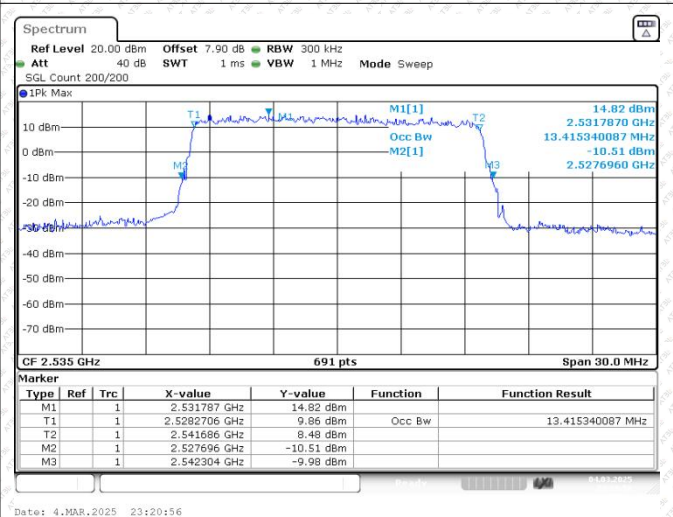
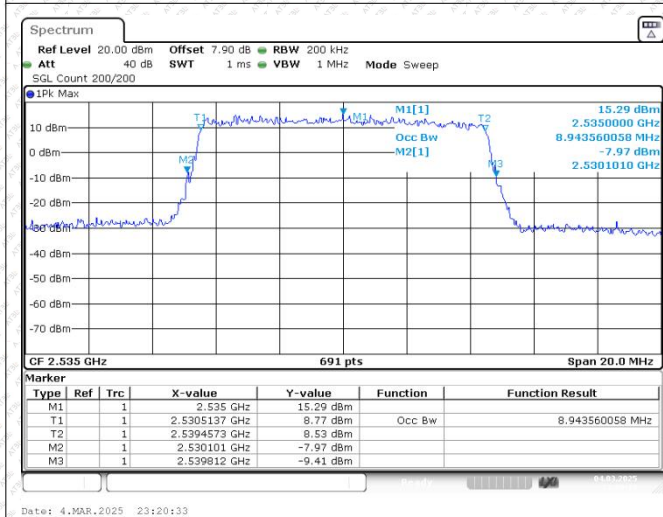
A4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QAM16	4.501	5.014	PASS
Band7	5	21100	25	#0	QAM16	4.501	4.971	PASS
Band7	5	21425	25	#0	QAM16	4.515	5.000	PASS
Band7	5	20775	25	#0	QPSK	4.501	4.899	PASS
Band7	5	21100	25	#0	QPSK	4.501	4.986	PASS
Band7	5	21425	25	#0	QPSK	4.501	4.971	PASS
Band7	10	20800	50	#0	QPSK	8.973	9.826	PASS
Band7	10	21100	50	#0	QPSK	8.944	9.710	PASS
Band7	10	21400	50	#0	QPSK	8.973	9.826	PASS
Band7	15	20825	75	#0	QPSK	13.546	14.696	PASS
Band7	15	21100	75	#0	QPSK	13.415	14.609	PASS
Band7	15	21375	75	#0	QPSK	13.459	14.652	PASS
Band7	20	20850	100	#0	QPSK	18.003	19.536	PASS
Band7	20	21100	100	#0	QPSK	17.887	19.246	PASS
Band7	20	21350	100	#0	QPSK	17.945	19.420	PASS



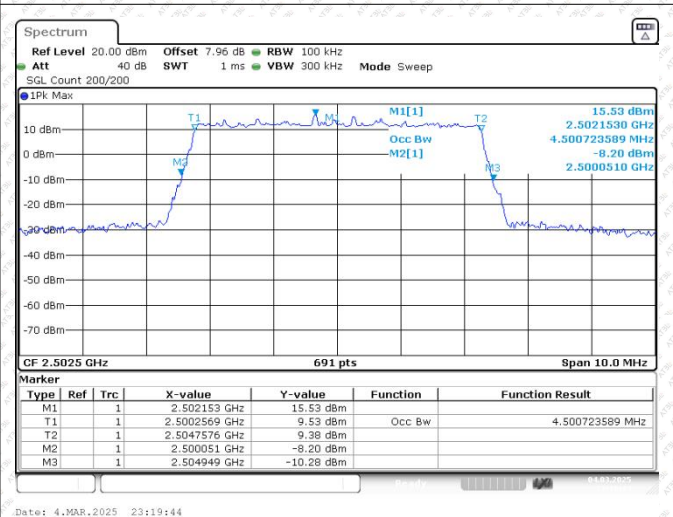
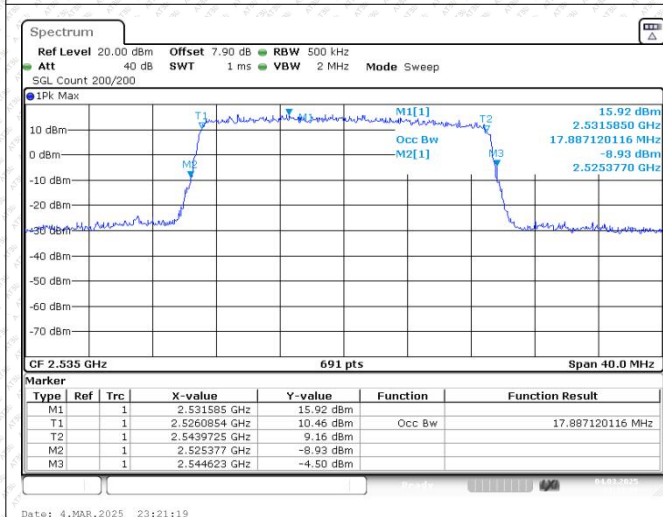
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0

Band7 QAM16 BW=5MHz Channel=21100 RB Size=25 Position=#0



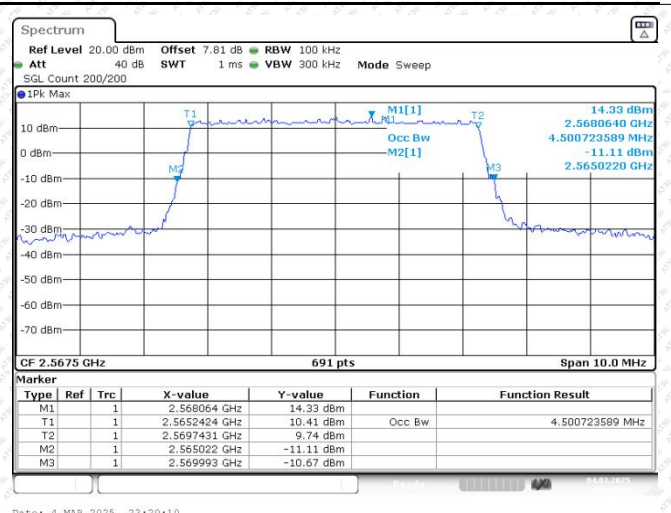
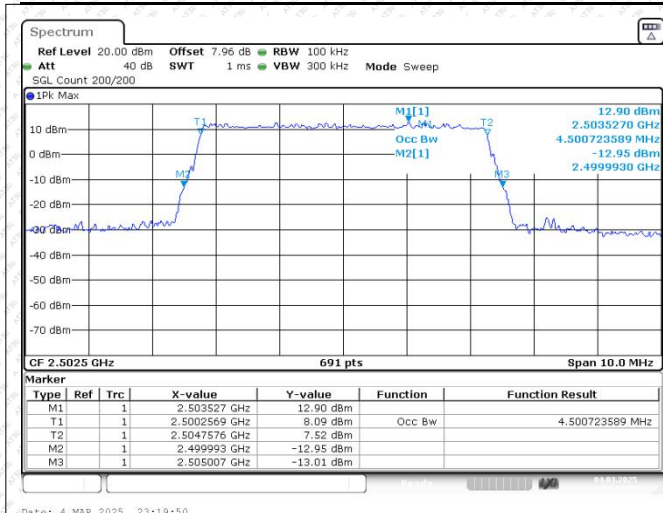
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0

Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



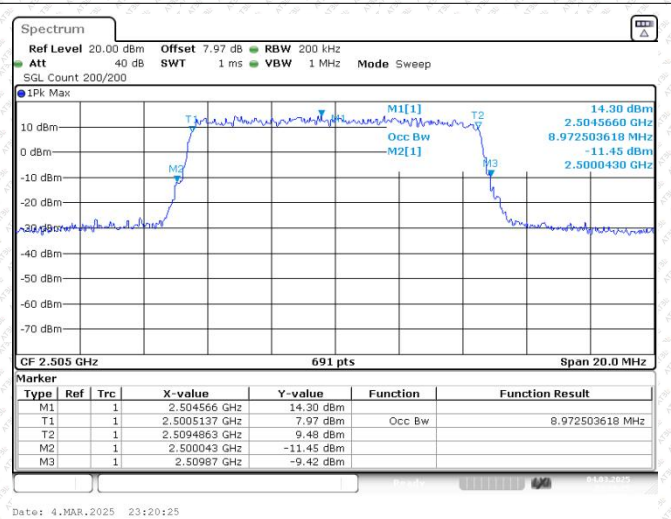
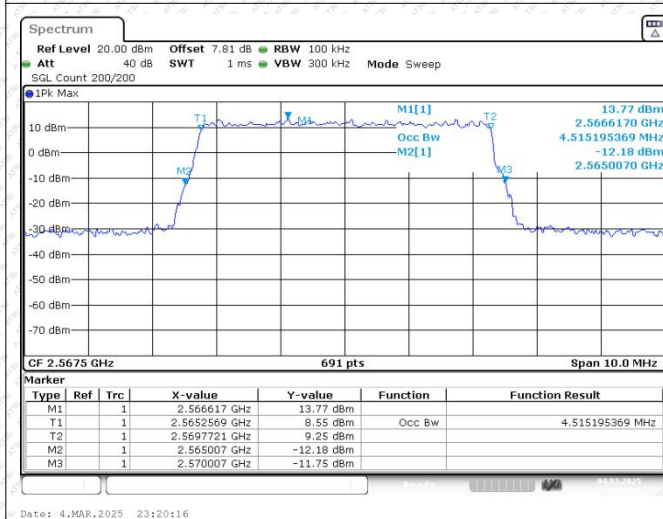
Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



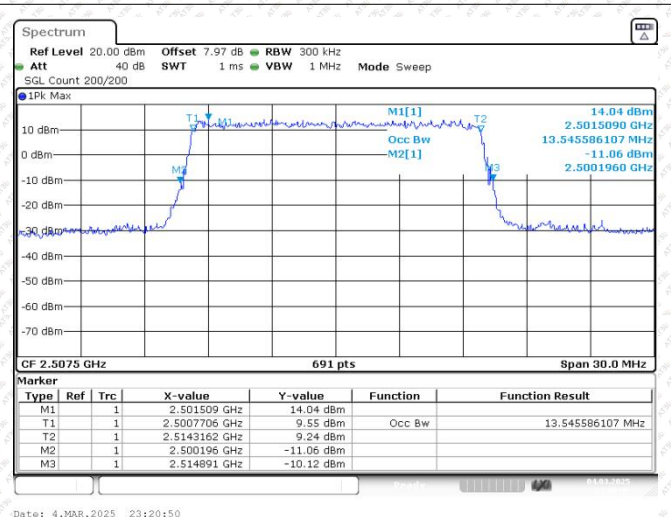
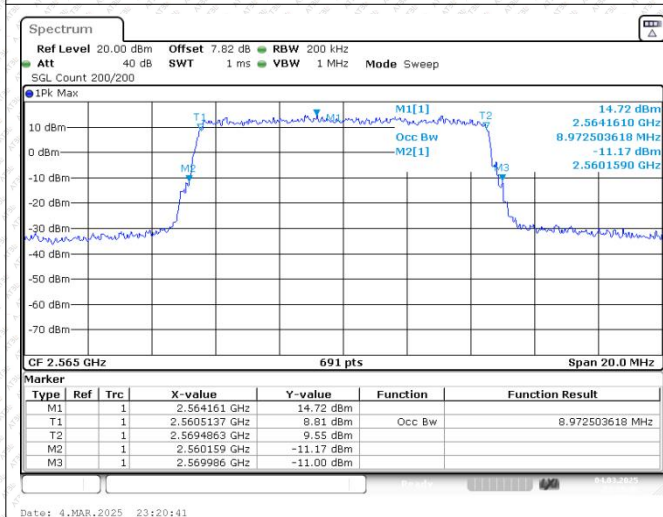
Band7 QAM16 BW=5MHz Channel=20775 RB Size=25 Position=#0

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



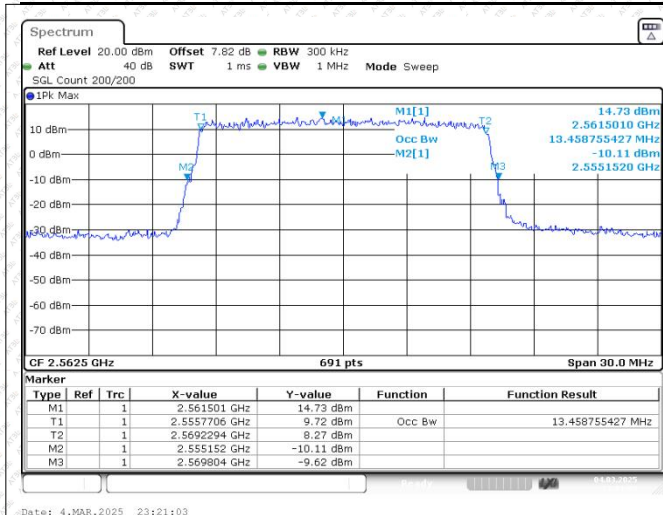
Band7 QAM16 BW=5MHz Channel=21425 RB Size=25 Position=#0

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

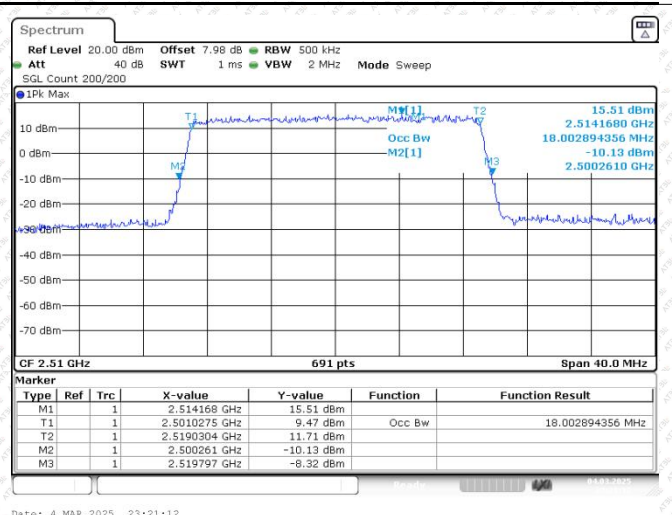


Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

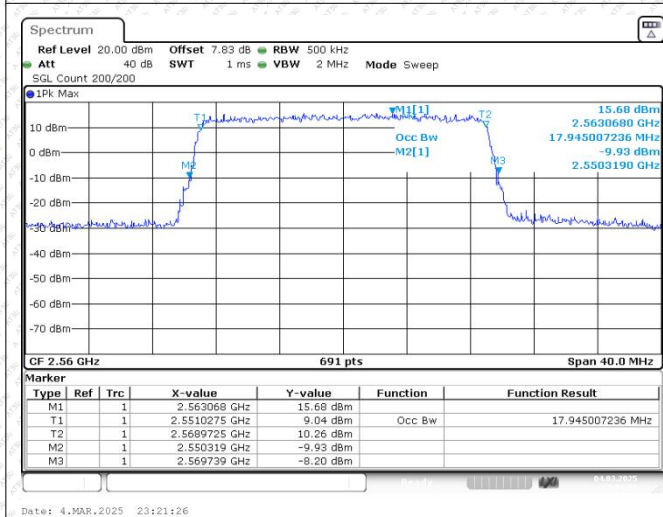
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



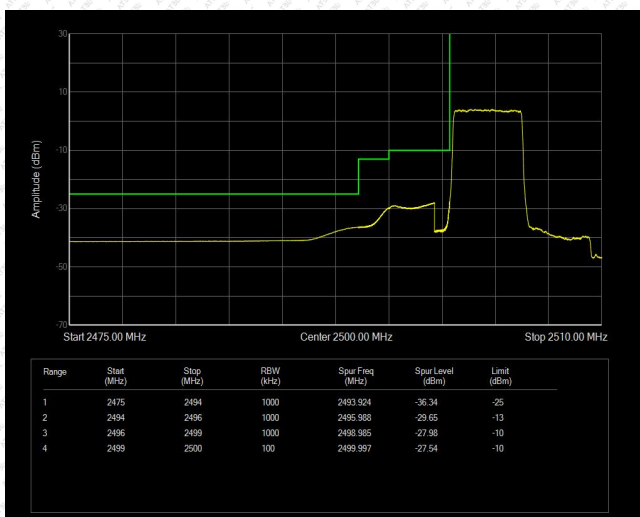
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



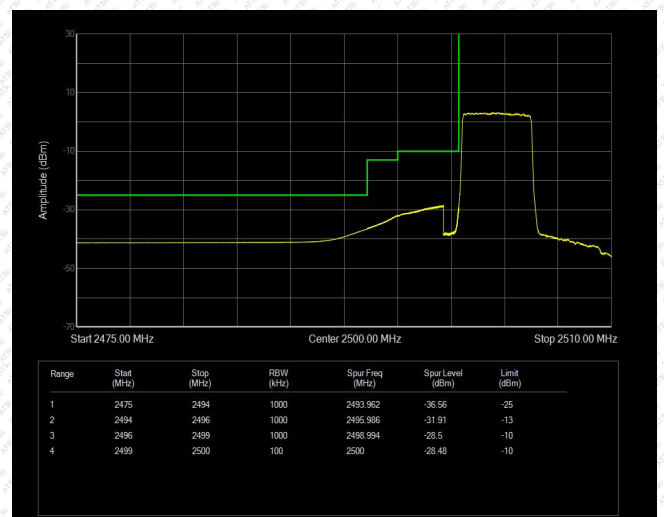
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

A5 Band edge

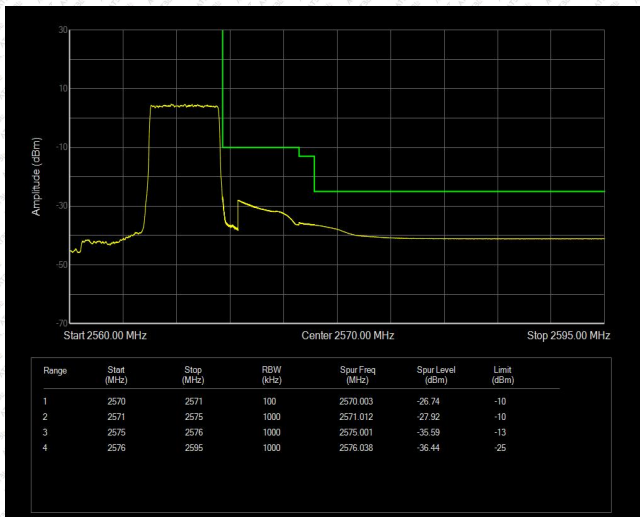
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QAM16	2493.96	-36.56	-25	PASS
Band7	5	21425	25	#0	QAM16	2576.06	-36.86	-25	PASS
Band7	5	20775	25	#0	QPSK	2493.92	-36.34	-25	PASS
Band7	5	21425	25	#0	QPSK	2576.04	-36.44	-25	PASS
Band7	10	20800	50	#0	QPSK	2489.63	-38.67	-25	PASS
Band7	10	21400	50	#0	QPSK	2580.02	-39.00	-25	PASS
Band7	15	20825	75	#0	QPSK	2484.75	-39.40	-25	PASS
Band7	15	21375	75	#0	QPSK	2585.02	-39.96	-25	PASS
Band7	20	20850	100	#0	QPSK	2479.94	-40.67	-25	PASS
Band7	20	21350	100	#0	QPSK	2590.09	-40.76	-25	PASS



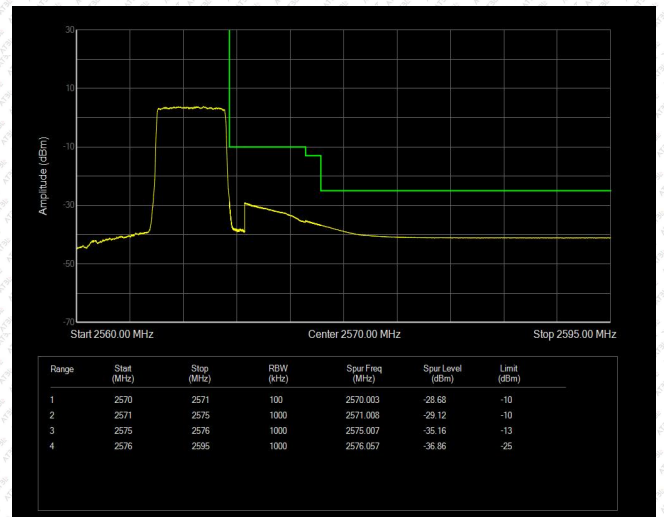
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



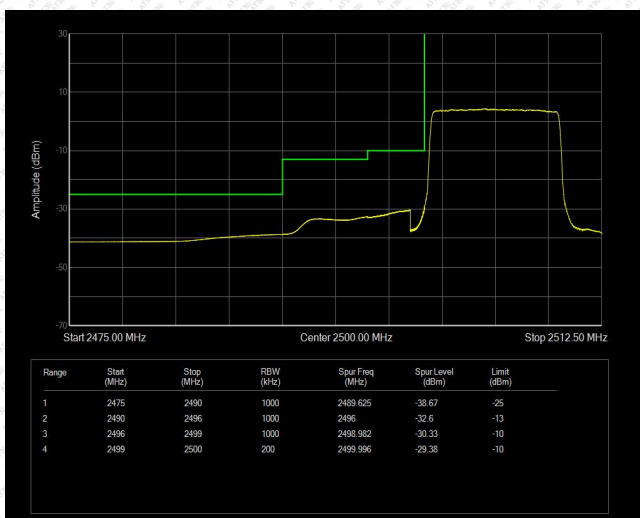
Band7 QAM16 BW=5MHz Channel=20775 RB Size=25 Position=#0



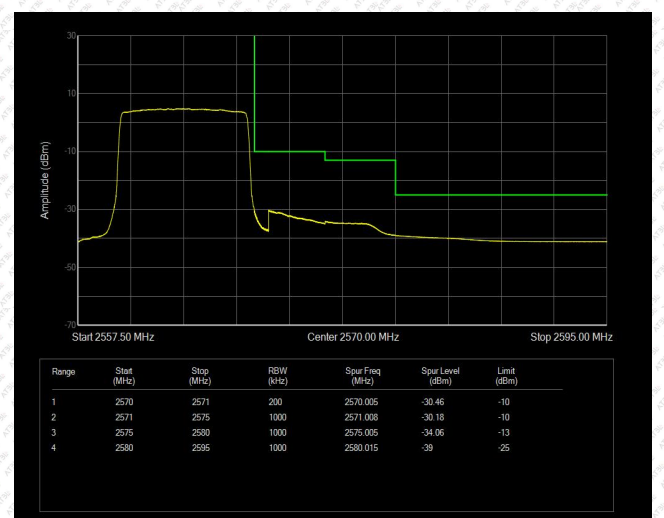
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



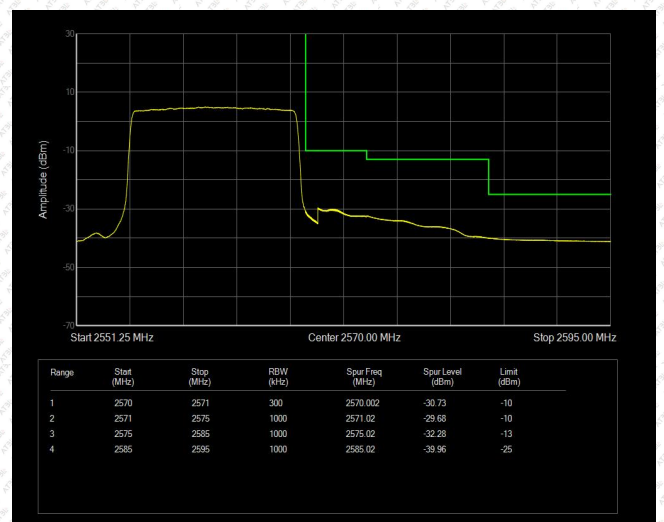
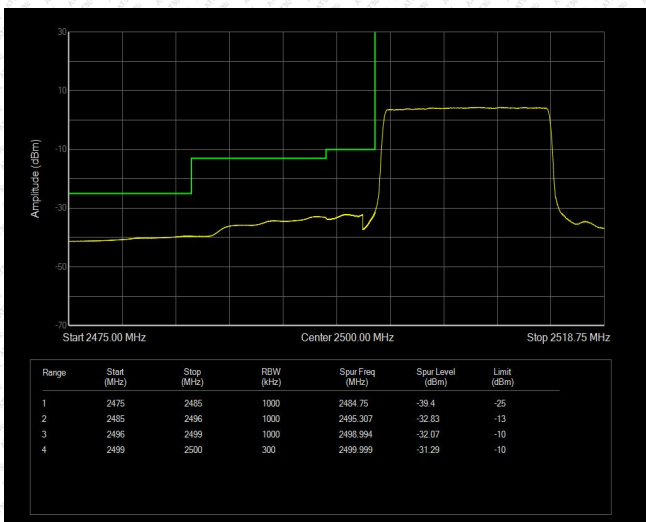
Band7 QAM16 BW=5MHz Channel=21425 RB Size=25 Position=#0



Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

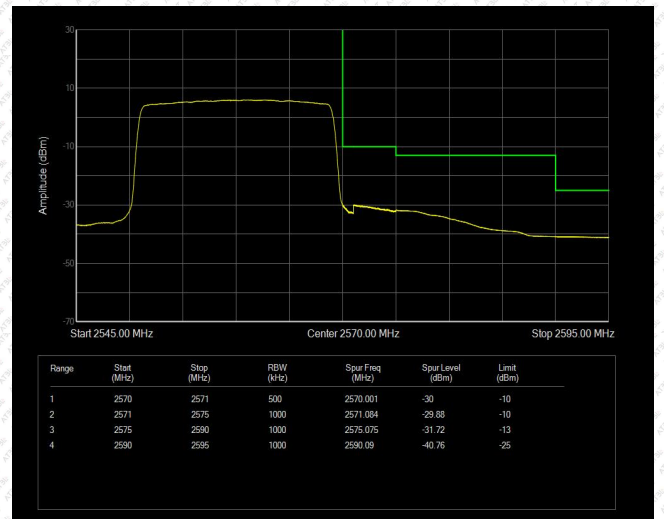
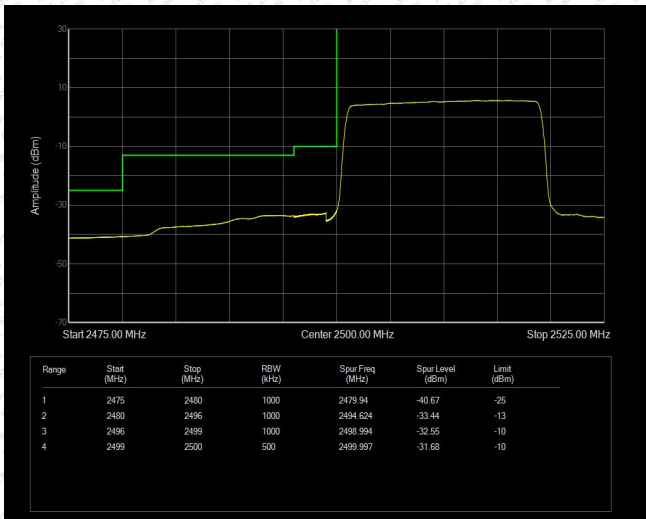


Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

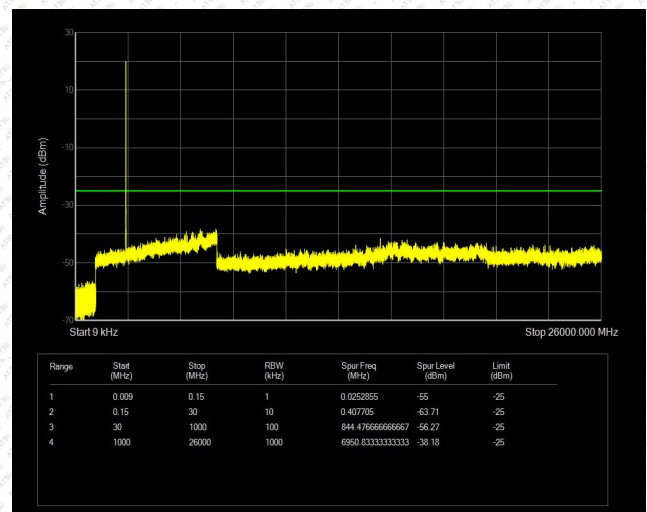
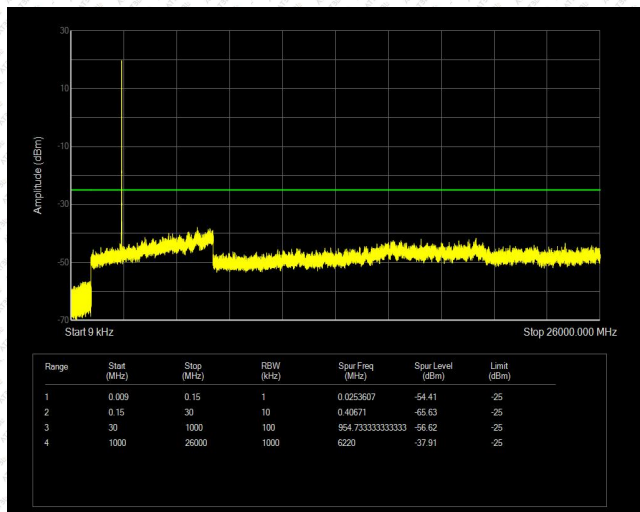


Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

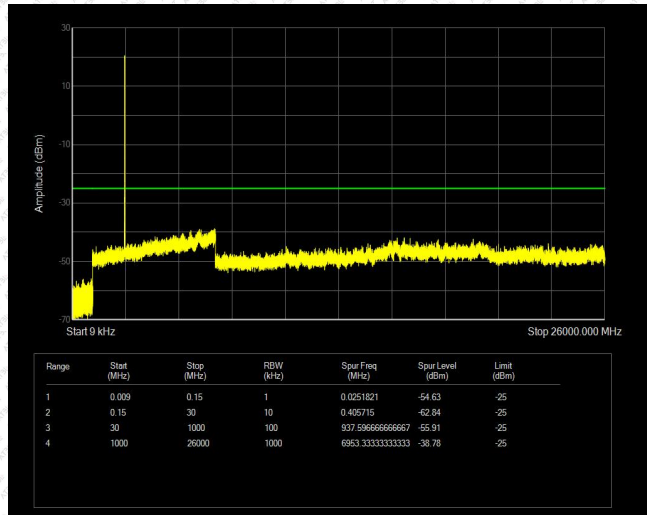
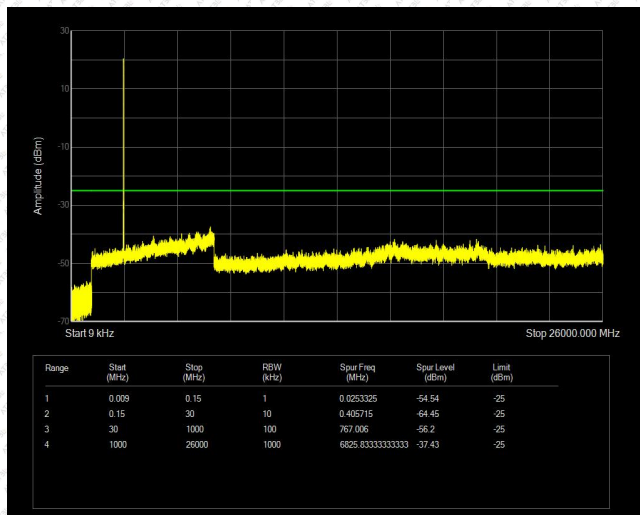
A6 Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QAM16	6950.83	-38.18	-25	PASS
Band7	5	21425	25	#0	QAM16	6953.33	-38.78	-25	PASS
Band7	5	20775	25	#0	QPSK	6220.00	-37.91	-25	PASS
Band7	5	21425	25	#0	QPSK	6825.83	-37.43	-25	PASS
Band7	10	20800	50	#0	QPSK	6825.00	-37.92	-25	PASS
Band7	10	21400	50	#0	QPSK	6824.17	-36.75	-25	PASS
Band7	15	20825	75	#0	QPSK	6233.33	-38.52	-25	PASS
Band7	15	21375	75	#0	QPSK	6174.17	-37.96	-25	PASS
Band7	20	20850	100	#0	QPSK	6862.50	-37.42	-25	PASS
Band7	20	21350	100	#0	QPSK	6720.00	-37.97	-25	PASS



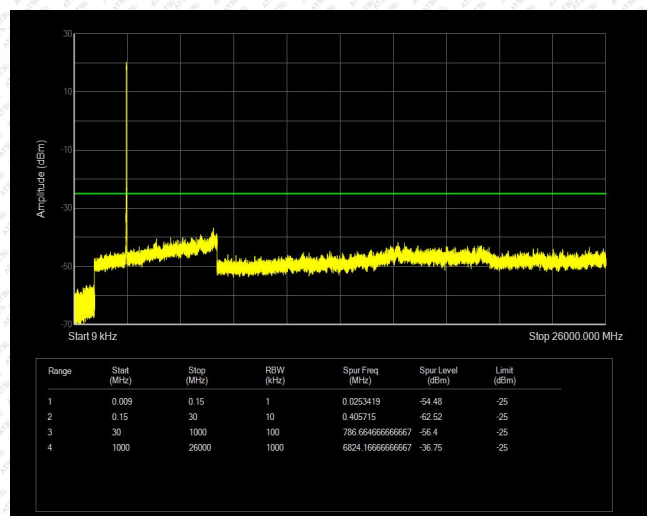
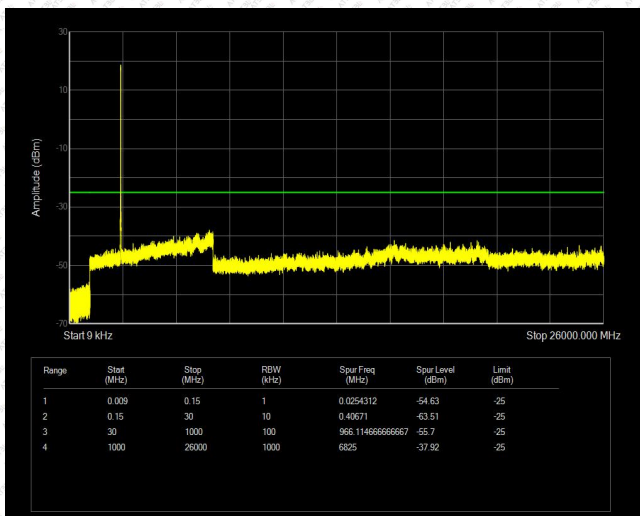
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

Band7 QAM16 BW=5MHz Channel=20775 RB Size=25 Position=#0



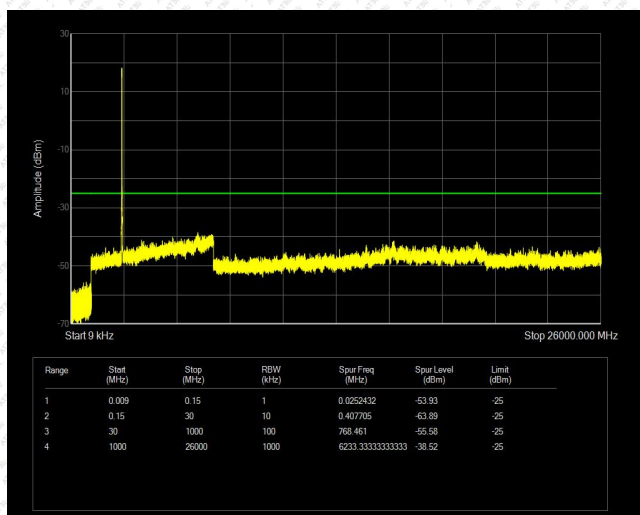
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

Band7 QAM16 BW=5MHz Channel=21425 RB Size=25 Position=#0

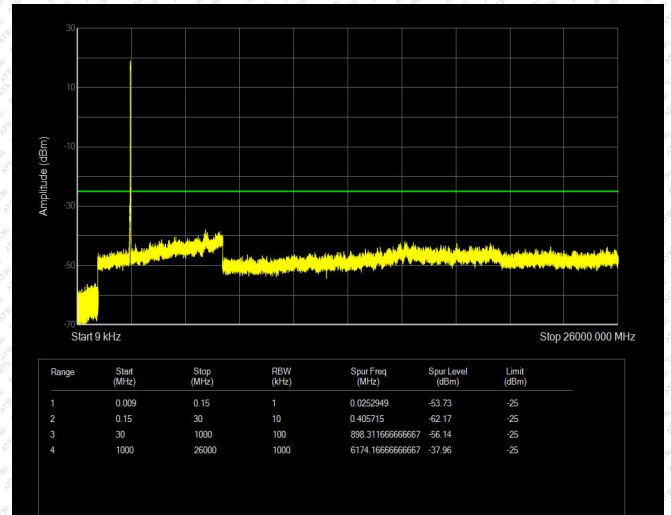


Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

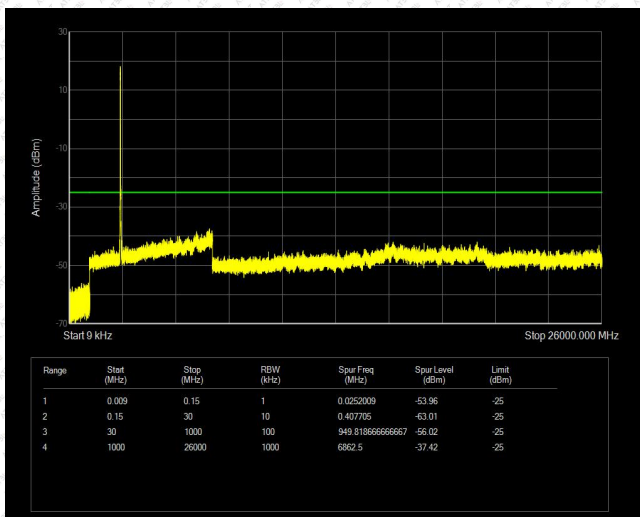
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



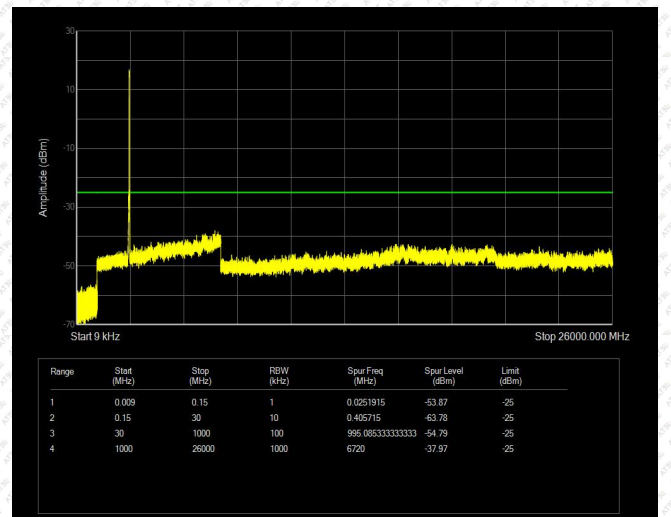
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

*****END OF THE APPENDIX A LTE Band 7*****