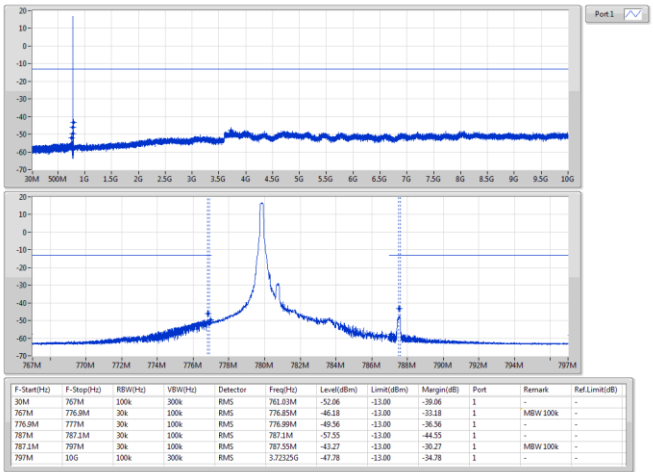
Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

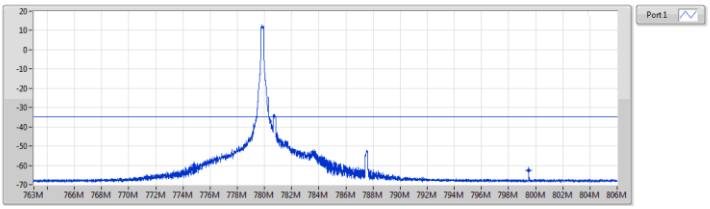
782MHz_QPSK_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	761.83M	-52.06	-13.00	-39.06	1	-	-
767M	776.9M	30k	100k	RMS	776.85M	-46.18	-13.00	-33.18	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.99M	-49.56	-13.00	-36.56	1	-	-
787M	787.1M	30k	100k	RMS	787.1M	-57.55	-13.00	-44.55	1	-	-
787.1M	797M	30k	100k	RMS	787.55M	-43.27	-13.00	-30.27	1	MBW 100k	-
797M	10G	100k	300k	RMS	3.72325G	-47.78	-13.00	-34.78	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

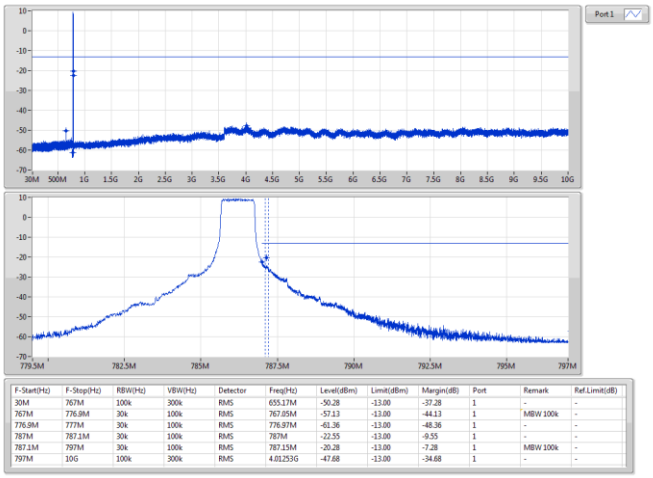
782MHz_QPSK_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.81M	-59.95	-35.00	-24.95	1	-	-
793M	806M	10k	30k	RMS	799.49M	-62.70	-35.00	-27.70	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

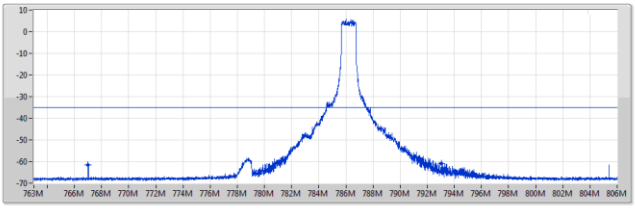
784.5MHz_QPSK_RB 6,#RB 0,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	655.17M	-50.28	-13.00	-37.28	1	-	-
767M	776.9M	30k	100k	RMS	767.05M	-57.13	-13.00	-44.13	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.97M	-61.36	-13.00	-48.36	1	-	-
787M	787.1M	30k	100k	RMS	787M	-22.55	-13.00	-9.55	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-20.28	-13.00	-7.28	1	MBW 100k	-
797M	10G	100k	300k	RMS	4.01253G	-47.68	-13.00	-34.68	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

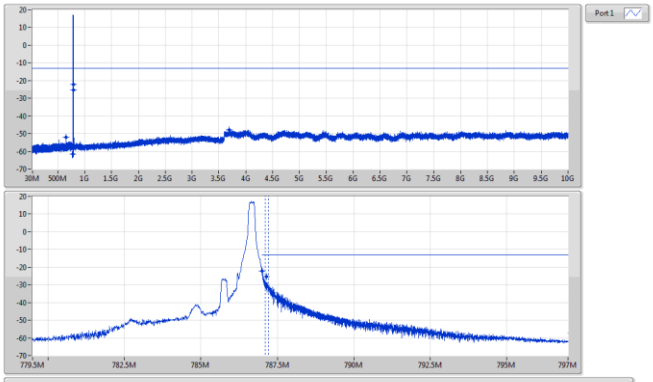
784.5MHz_QPSK_RB 6,#RB 0,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	767.01M	-61.55	-35.00	-26.55	1	-	-
793M	806M	10k	30k	RMS	793.03M	-60.81	-35.00	-25.81	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

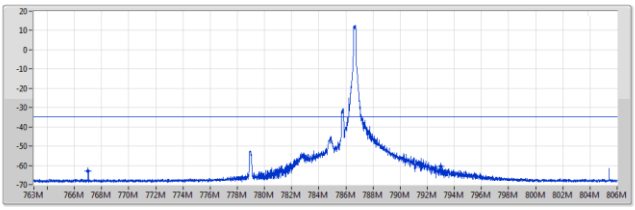
784.5MHz_QPSK_RB 1,#RB 5,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	655.17M	-51.92	-13.00	-38.92	1	-	-
767M	776.8M	30k	100k	RMS	767.05M	-57.37	-13.00	-44.37	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.97M	-61.73	-13.00	-48.73	1	-	-
787M	787.1M	30k	100k	RMS	787M	-22.17	-13.00	-9.17	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-25.41	-13.00	-12.41	1	MBW 100k	-
797M	10G	100k	300k	RMS	3.60595G	-47.68	-13.00	-34.68	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

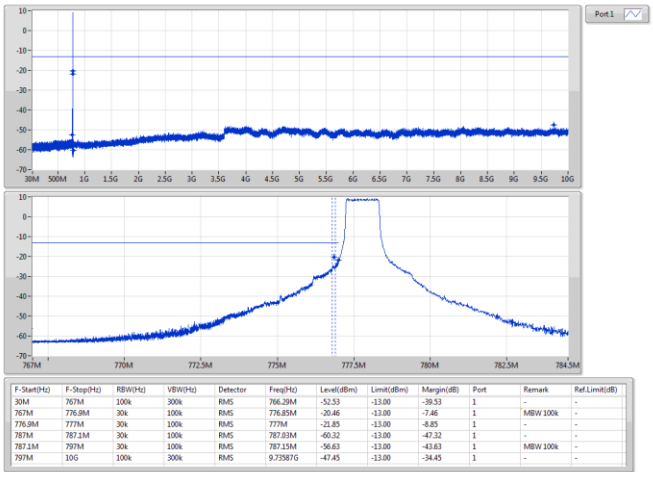
784.5MHz_QPSK_RB 1,#RB 5,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	767.01M	-63.06	-35.00	-28.06	1	-	-
793M	806M	10k	30k	RMS	793.01M	-60.66	-35.00	-25.66	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

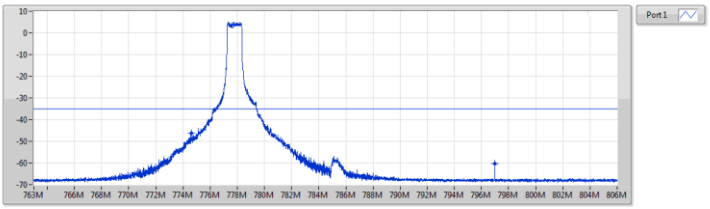
779.5MHz_16QAM_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	766.29M	-52.53	-13.00	-39.53	1	-	-
767M	776.9M	30k	100k	RMS	776.85M	-20.46	-13.00	-7.46	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-21.85	-13.00	-8.85	1	-	-
787M	787.1M	30k	100k	RMS	787.03M	-60.32	-13.00	-47.32	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-56.63	-13.00	-43.63	1	MBW 100k	-
797M	10G	100k	300k	RMS	9.73587G	-47.45	-13.00	-34.45	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

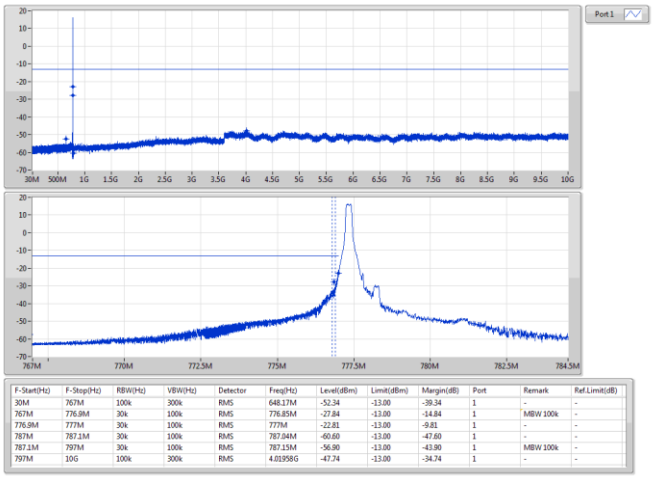
779.5MHz_16QAM_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.59M	-46.21	-35.00	-11.21	1	-	-
793M	806M	10k	30k	RMS	796.99M	-60.17	-35.00	-25.17	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

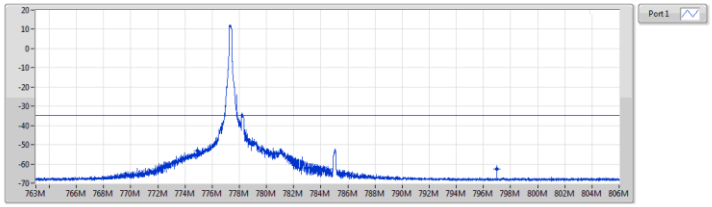
779.5MHz_16QAM_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	648.17M	-52.34	-13.00	-39.34	1	-	-
767M	776.9M	30k	100k	RMS	776.85M	-27.84	-13.00	-14.84	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-22.81	-13.00	-9.81	1	-	-
787M	787.1M	30k	100k	RMS	787.04M	-60.60	-13.00	-47.60	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-56.90	-13.00	-43.90	1	MBW 100k	-
797M	10G	100k	300k	RMS	4.01958G	-47.74	-13.00	-34.74	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

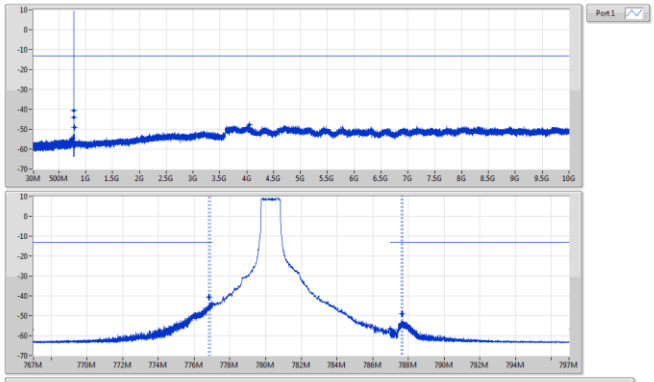
779.5MHz_16QAM_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.93M	-53.26	-35.00	-18.26	1	-	-
793M	806M	10k	30k	RMS	796.98M	-62.48	-35.00	-27.48	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

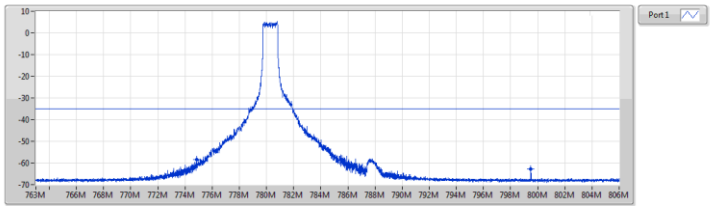
782MHz_16QAM_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	741.01M	-54.59	-13.00	-41.59	1	-	-
767M	776.8M	30k	100k	RMS	776.85M	-40.53	-13.00	-27.53	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.98M	-44.17	-13.00	-31.17	1	-	-
787M	787.1M	30k	100k	RMS	787M	-56.43	-13.00	-43.43	1	-	-
787.1M	797M	30k	100k	RMS	787.85M	-49.19	-13.00	-36.19	1	MBW 100k	-
797M	10G	100k	300k	RMS	4.05149G	-47.76	-13.00	-34.76	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

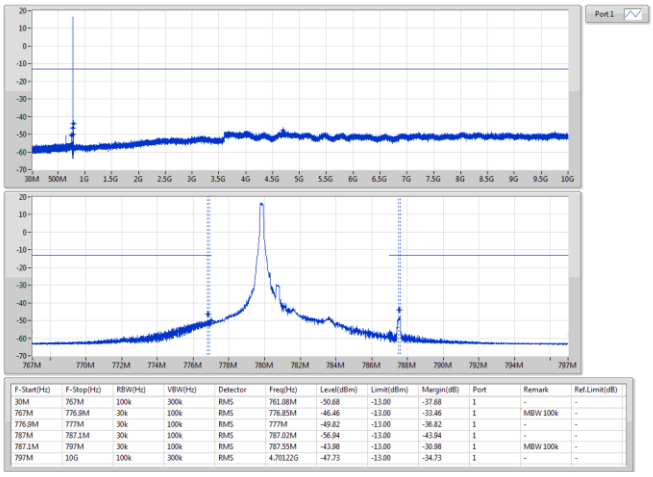
782MHz_16QAM_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.86M	-58.59	-35.00	-23.59	1	-	-
793M	806M	10k	30k	RMS	799.49M	-62.66	-35.00	-27.66	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

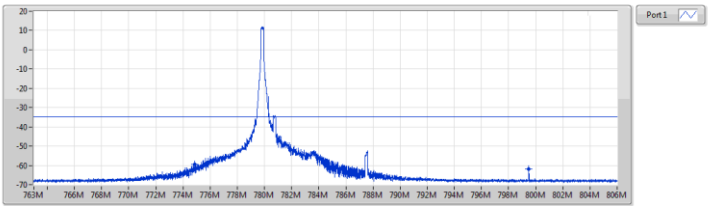
782MHz_16QAM_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	761.08M	-50.68	-13.00	-37.68	1	-	-
767M	776.9M	30k	100k	RMS	776.85M	-46.46	-13.00	-33.46	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-49.82	-13.00	-36.82	1	-	-
787M	787.1M	30k	100k	RMS	787.02M	-56.94	-13.00	-43.94	1	-	-
787.1M	797M	30k	100k	RMS	787.55M	-43.98	-13.00	-30.98	1	MBW 100k	-
797M	10G	100k	300k	RMS	4.70122G	-47.73	-13.00	-34.73	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

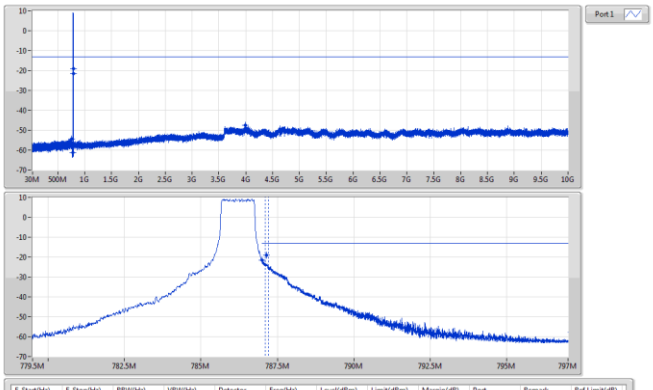
782MHz_16QAM_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.84M	-59.58	-35.00	-24.58	1	-	-
793M	806M	10k	30k	RMS	799.49M	-61.96	-35.00	-26.96	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

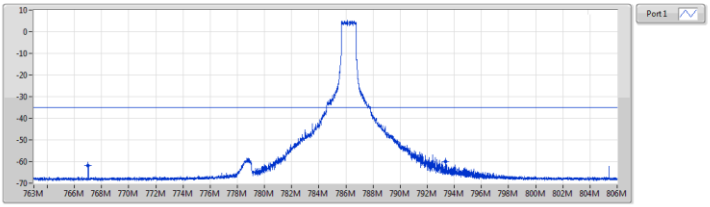
784.5MHz_16QAM_RB 6,#RB 0,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	760.1M	-54.23	-13.00	-41.23	1	-	-
767M	776.9M	30k	100k	RMS	767.05M	-57.14	-13.00	-44.14	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.96M	-61.31	-13.00	-48.31	1	-	-
787M	787.1M	30k	100k	RMS	787M	-21.52	-13.00	-8.52	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-19.19	-13.00	-6.19	1	MBW 100k	-
797M	10G	100k	300k	RMS	3.99688G	-47.60	-13.00	-34.60	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

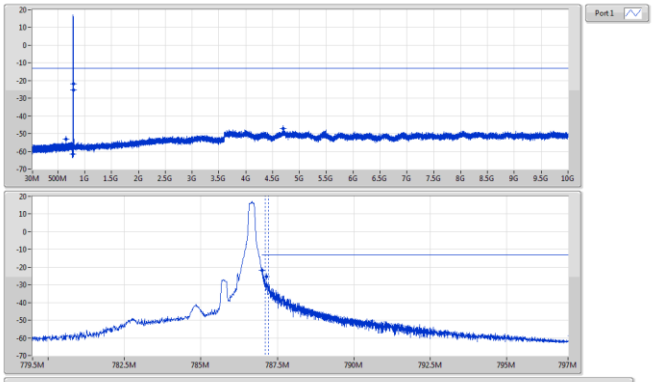
784.5MHz_16QAM_RB 6,#RB 0,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	767.01M	-61.89	-35.00	-26.89	1	-	-
793M	806M	10k	30k	RMS	793.34M	-59.96	-35.00	-24.96	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

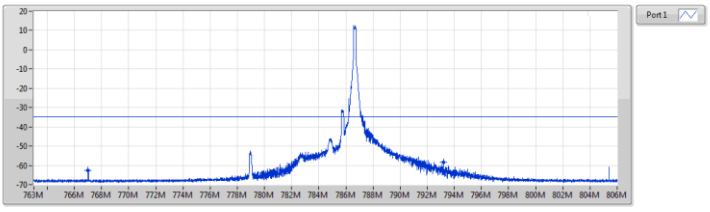
784.5MHz_16QAM_RB 1,#RB 5,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	767M	100k	300k	RMS	655.61M	-52.97	-13.00	-39.97	1	-	-
767M	776.8M	30k	100k	RMS	767.05M	-56.99	-13.00	-43.99	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.97M	-61.64	-13.00	-48.64	1	-	-
787M	787.1M	30k	100k	RMS	787M	-21.92	-13.00	-8.92	1	-	-
787.1M	797M	30k	100k	RMS	787.15M	-25.43	-13.00	-12.43	1	MBW 100k	-
797M	10G	100k	300k	RMS	4.69846G	-47.13	-13.00	-34.13	1	-	-

Band 13_LTE-M1_5MHz_Nss1_1TX **CSE-TX**

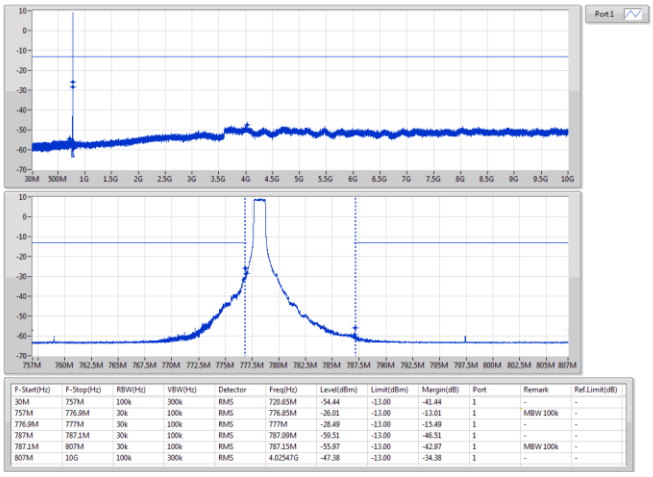
784.5MHz_16QAM_RB 1,#RB 5,NB 3



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	767.01M	-62.64	-35.00	-27.64	1	-	-
793M	806M	10k	30k	RMS	793.2M	-58.51	-35.00	-23.51	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

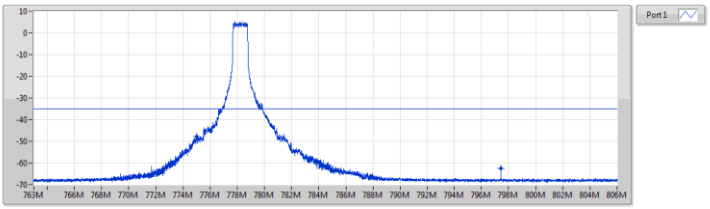
782MHz_QPSK_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	720.65M	-54.44	-13.00	-41.44	1	-	-
757M	776.9M	30k	100k	RMS	776.85M	-26.01	-13.00	-13.01	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-28.49	-13.00	-15.49	1	-	-
787M	787.1M	30k	100k	RMS	787.09M	-59.51	-13.00	-46.51	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-55.97	-13.00	-42.97	1	MBW 100k	-
807M	10G	100k	300k	RMS	4.02547G	-47.38	-13.00	-34.38	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

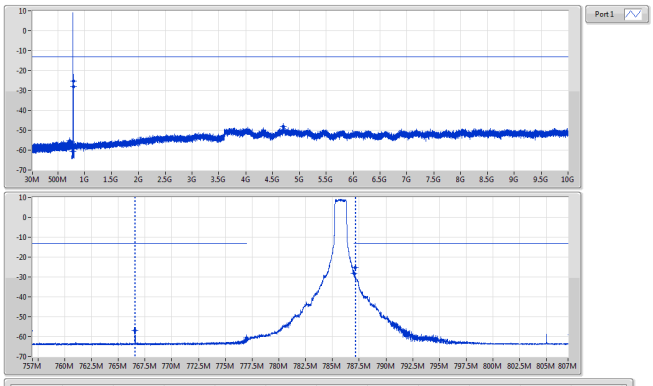
782MHz_QPSK_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.99M	-47.96	-35.00	-12.96	1	-	-
793M	806M	10k	30k	RMS	797.42M	-62.56	-35.00	-27.56	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-05,12,**

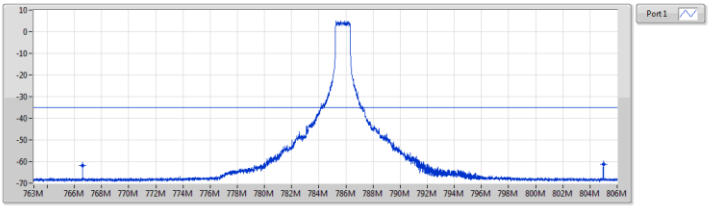
782MHz_QPSK_RB 6,#RB 0,NB 7



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	722.9M	-55.19	-13.00	-42.19	1	-	-
757M	776.9M	30k	100k	RMS	766.55M	-56.72	-13.00	-43.72	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.98M	-60.76	-13.00	-47.76	1	-	-
787M	787.1M	30k	100k	RMS	787.03M	-28.01	-13.00	-15.01	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-25.35	-13.00	-12.35	1	MBW 100k	-
807M	10G	100k	300k	RMS	4.69505G	-48.21	-13.00	-35.21	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-13**

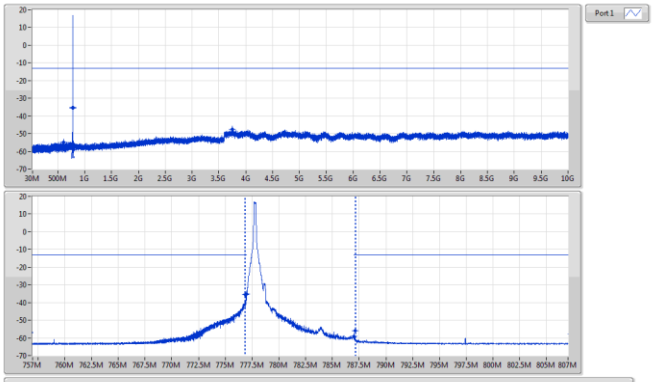
782MHz_QPSK_RB 6,#RB 0,NB 7



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	766.58M	-61.93	-35.00	-26.93	1	-	-
793M	806M	10k	30k	RMS	804.98M	-61.11	-35.00	-26.11	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

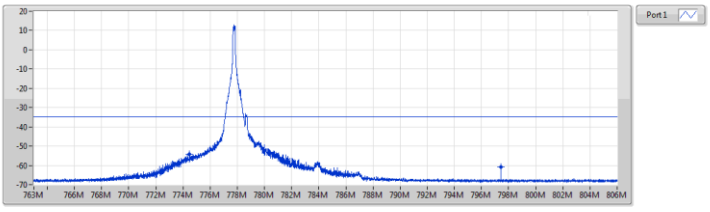
782MHz_QPSK_RB 1,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	611.33M	-54.76	-13.00	-41.76	1	-	-
757M	776.8M	30k	100k	RMS	776.85M	-35.57	-13.00	-22.57	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-35.22	-13.00	-22.22	1	-	-
787M	787.1M	30k	100k	RMS	787.02M	-59.04	-13.00	-46.04	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-56.10	-13.00	-43.10	1	MBW 100k	-
807M	10G	100k	300k	RMS	3.74631G	-47.65	-13.00	-34.65	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

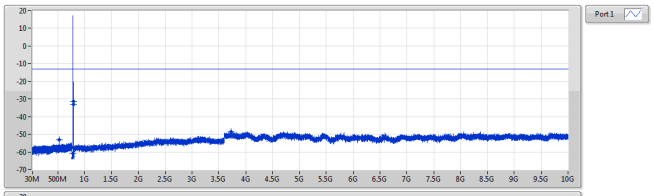
782MHz_QPSK_RB 1,#RB 0,NB 0

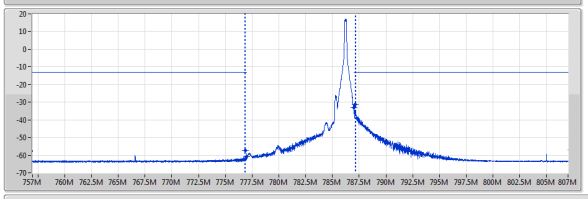


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.45M	-54.24	-35.00	-19.24	1	-	-
793M	806M	10k	30k	RMS	797.42M	-60.94	-35.00	-25.94	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-05,12,**

782MHz_QPSK_RB 1,#RB 5,NB 7

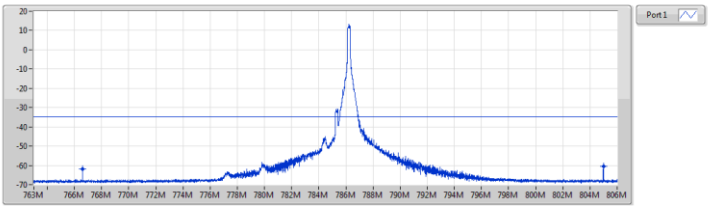




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	524.31M	-53.22	-13.00	-40.22	1	-	-
757M	776.9M	30k	100k	RMS	776.85M	-57.20	-13.00	-44.20	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.98M	-60.76	-13.00	-47.76	1	-	-
787M	787.1M	30k	100k	RMS	787.01M	-33.19	-13.00	-20.19	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-31.38	-13.00	-18.38	1	MBW 100k	-
807M	10G	100k	300k	RMS	3.72792G	-48.40	-13.00	-35.40	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-13**

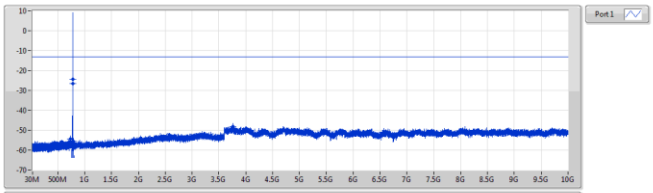
782MHz_QPSK_RB 1,#RB 5,NB 7

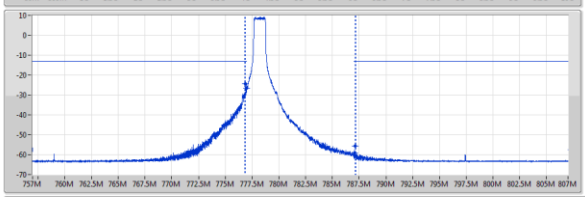


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	766.58M	-61.79	-35.00	-26.79	1	-	-
793M	806M	10k	30k	RMS	804.98M	-60.34	-35.00	-25.34	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

782MHz_16QAM_RB 6,#RB 0,NB 0

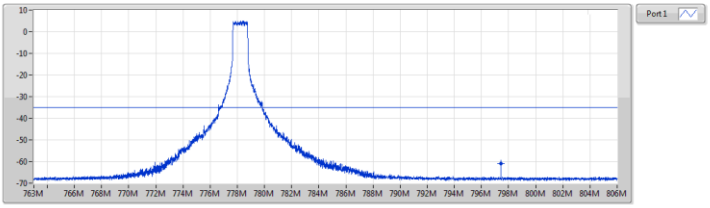




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	734.97M	-54.49	-13.00	-41.49	1	-	-
757M	776.9M	30k	100k	RMS	776.85M	-24.38	-13.00	-11.38	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.99M	-26.50	-13.00	-13.50	1	-	-
787M	787.1M	30k	100k	RMS	787.06M	-58.99	-13.00	-45.99	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-55.54	-13.00	-42.54	1	MBW 100k	-
807M	10G	100k	300k	RMS	3.76163G	-48.07	-13.00	-35.07	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

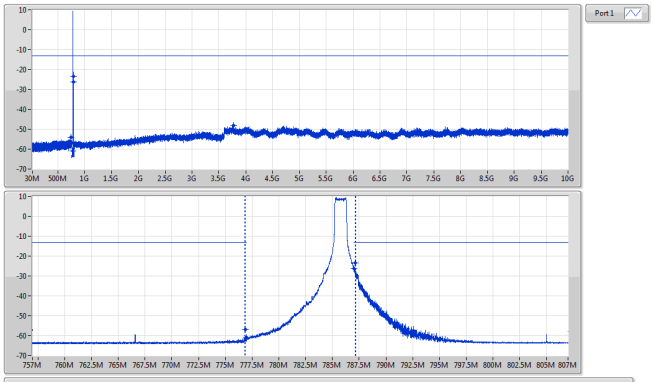
782MHz_16QAM_RB 6,#RB 0,NB 0



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.99M	-48.66	-35.00	-13.66	1	-	-
793M	806M	10k	30k	RMS	797.42M	-60.89	-35.00	-25.89	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-05,12,**

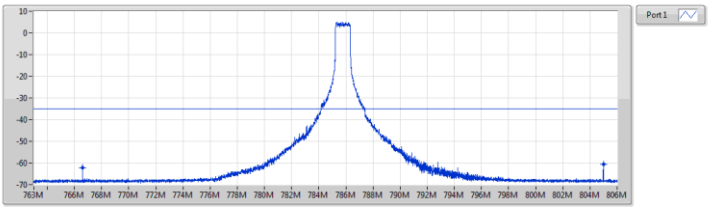
782MHz_16QAM_RB 6,#RB 0,NB 7



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	742.12M	-54.13	-13.00	-41.13	1	-	-
757M	776.9M	30k	100k	RMS	776.85M	-56.93	-13.00	-43.93	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.99M	-61.03	-13.00	-48.03	1	-	-
787M	787.1M	30k	100k	RMS	787.01M	-26.24	-13.00	-13.24	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-23.58	-13.00	-10.58	1	MBW 100k	-
807M	10G	100k	300k	RMS	3.77236G	-48.02	-13.00	-35.02	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-13**

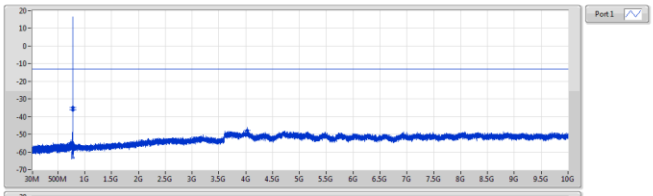
782MHz_16QAM_RB 6,#RB 0,NB 7

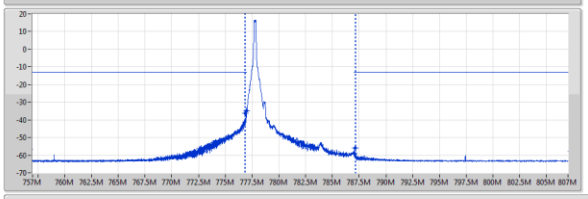


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	766.58M	-62.22	-35.00	-27.22	1	-	-
793M	806M	10k	30k	RMS	804.98M	-60.63	-35.00	-25.63	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

782MHz_16QAM_RB 1,#RB 0,NB 0

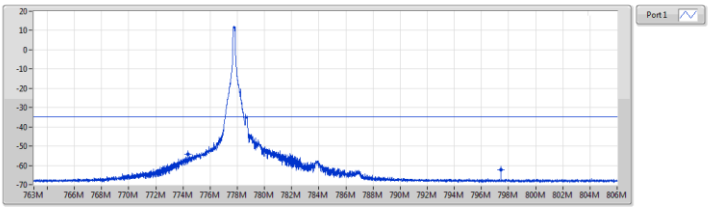




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	741.44M	-54.77	-13.00	-41.77	1	-	-
757M	776.9M	30k	100k	RMS	776.85M	-36.08	-13.00	-23.08	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	777M	-34.89	-13.00	-21.89	1	-	-
787M	787.1M	30k	100k	RMS	787.01M	-58.59	-13.00	-45.59	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-55.79	-13.00	-42.79	1	MBW 100k	-
807M	10G	100k	300k	RMS	4.0221G	-47.70	-13.00	-34.70	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX**

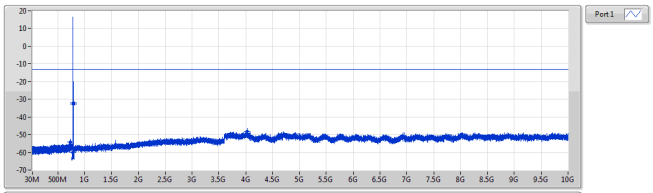
782MHz_16QAM_RB 1,#RB 0,NB 0

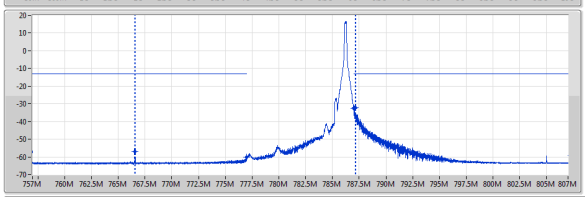


F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	774.36M	-54.26	-35.00	-19.26	1	-	-
793M	806M	10k	30k	RMS	797.42M	-62.09	-35.00	-27.09	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-05,12,**

782MHz_16QAM_RB 1,#RB 5,NB 7

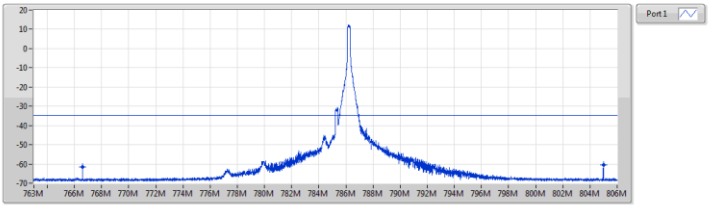




F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
30M	757M	100k	300k	RMS	730.92M	-54.29	-13.00	-41.29	1	-	-
757M	776.9M	30k	100k	RMS	766.55M	-57.16	-13.00	-44.16	1	MBW 100k	-
776.9M	777M	30k	100k	RMS	776.98M	-60.30	-13.00	-47.30	1	-	-
787M	787.1M	30k	100k	RMS	787.01M	-32.59	-13.00	-19.59	1	-	-
787.1M	807M	30k	100k	RMS	787.15M	-31.97	-13.00	-18.97	1	MBW 100k	-
807M	10G	100k	300k	RMS	4.02761G	-48.03	-13.00	-35.03	1	-	-

Band 13_LTE-M1_10MHz_Nss1_1TX **CSE-TX-Port-13**

782MHz_16QAM_RB 1,#RB 5,NB 7



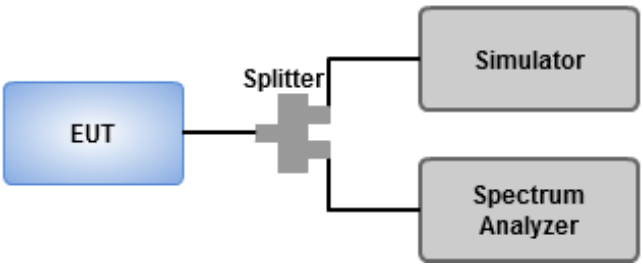
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	VBW(Hz)	Detector	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Remark	Ref.Limit(dB)
763M	775M	10k	30k	RMS	766.58M	-61.59	-35.00	-26.59	1	-	-
793M	806M	10k	30k	RMS	804.98M	-60.50	-35.00	-25.50	1	-	-

3.4 Occupied Bandwidth

3.4.1 Test Procedures

1. Set resolution bandwidth (RBW) = 30 kHz, Video bandwidth= 100 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Using occupied bandwidth measurement function of spectrum analyzer to measure occupied bandwidth.

3.4.2 Test Setup



3.4.3 Test Result of Occupied Bandwidth

Summary of LTE Band 12

Mode	Max-OBW	ITU-Code	Min-OBW
	(Hz)		(Hz)
Band 12_LTE-M1_1.4MHz_Nss1_1TX_RB 6	1.098M	1M10	1.092M
Band 12_LTE-M1_3MHz_Nss1_1TX_RB 6	1.113M	1M11	1.101M
Band 12_LTE-M1_5MHz_Nss1_1TX_RB 6	1.115M	1M12	1.097M
Band 12_LTE-M1_10MHz_Nss1_1TX_RB 6	1.128M	1M13	1.108M

Max-N dB = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

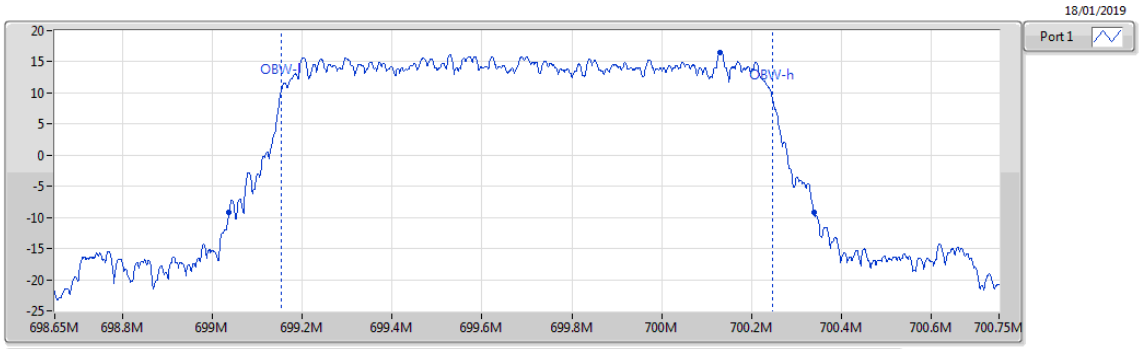
Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
LTE-M1_1.4MHz_Nss1_1TX	-	-	-	-
699.7MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.301M	1.092M
707.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.294M	1.098M
715.3MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.274M	1.097M
699.7MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.293M	1.094M
707.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.282M	1.096M
715.3MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.275M	1.098M
LTE-M1_3MHz_Nss1_1TX	-	-	-	-
700.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.395M	1.104M
707.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.438M	1.113M
714.5MHz_QPSK_RB 6,#RB 0,NB 1	Pass	Inf	1.433M	1.101M
700.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.391M	1.104M
707.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.42M	1.111M
714.5MHz_16QAM_RB 6,#RB 0,NB 1	Pass	Inf	1.42M	1.107M
LTE-M1_5MHz_Nss1_1TX	-	-	-	-
701.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.339M	1.098M
707.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.335M	1.097M
713.5MHz_QPSK_RB 6,#RB 0,NB 3	Pass	Inf	1.391M	1.102M
701.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.459M	1.115M
707.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.395M	1.115M
713.5MHz_16QAM_RB 6,#RB 0,NB 3	Pass	Inf	1.538M	1.114M
LTE-M1_10MHz_Nss1_1TX	-	-	-	-
704MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.65M	1.128M
707.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.485M	1.108M
711MHz_QPSK_RB 6,#RB 0,NB 7	Pass	Inf	1.785M	1.117M
704MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.5M	1.12M
707.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.575M	1.124M
711MHz_16QAM_RB 6,#RB 0,NB 7	Pass	Inf	1.59M	1.115M

Port X-N dB = Port **X** 26dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

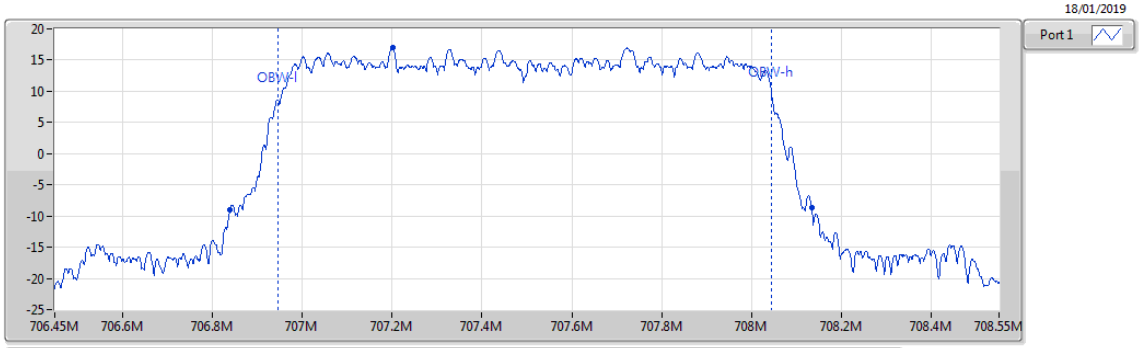
699.7MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.301M	699.03745M	700.3384M	1.092M	699.153455M	700.245892M	1	699.7M	2.1M	30k	100k

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

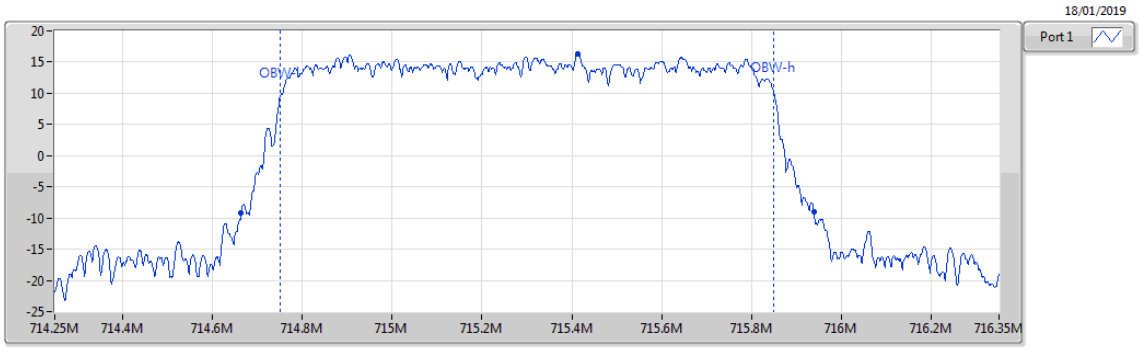
707.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.294M	706.83955M	708.13315M	1.098M	706.946345M	708.044832M	1	707.5M	2.1M	30k	100k

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

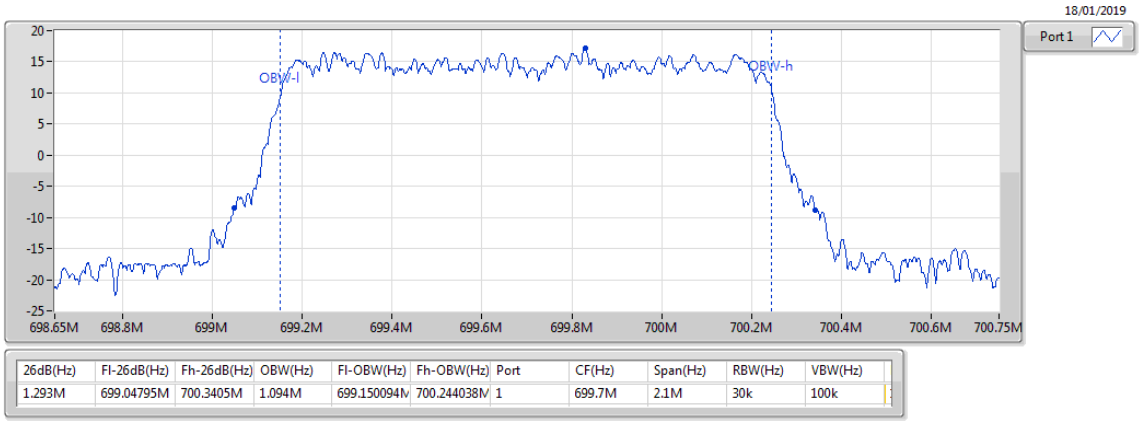
715.3MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.274M	714.66475M	715.9384M	1.097M	714.751938M	715.84845M	1	715.3M	2.1M	30k	100k

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

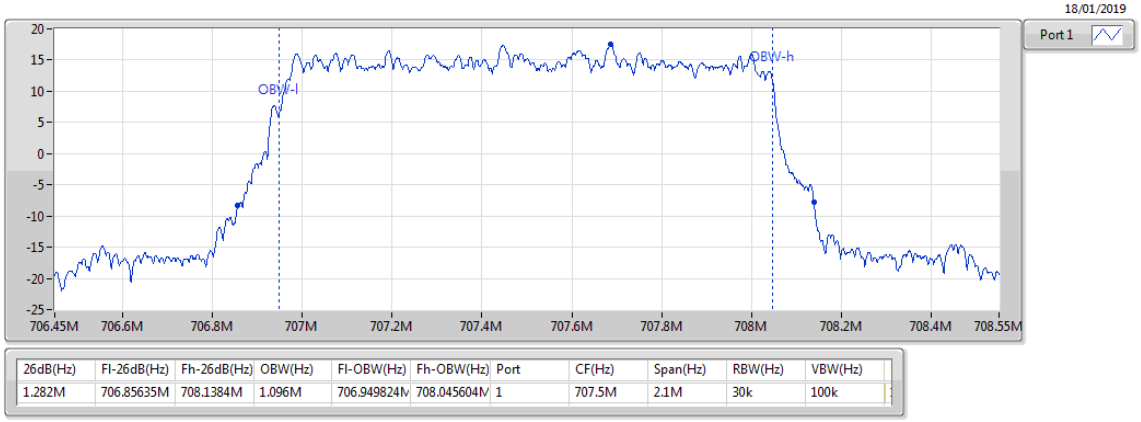
699.7MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.293M	699.04795M	700.3405M	1.094M	699.150094M	700.244038M	1	699.7M	2.1M	30k	100k

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

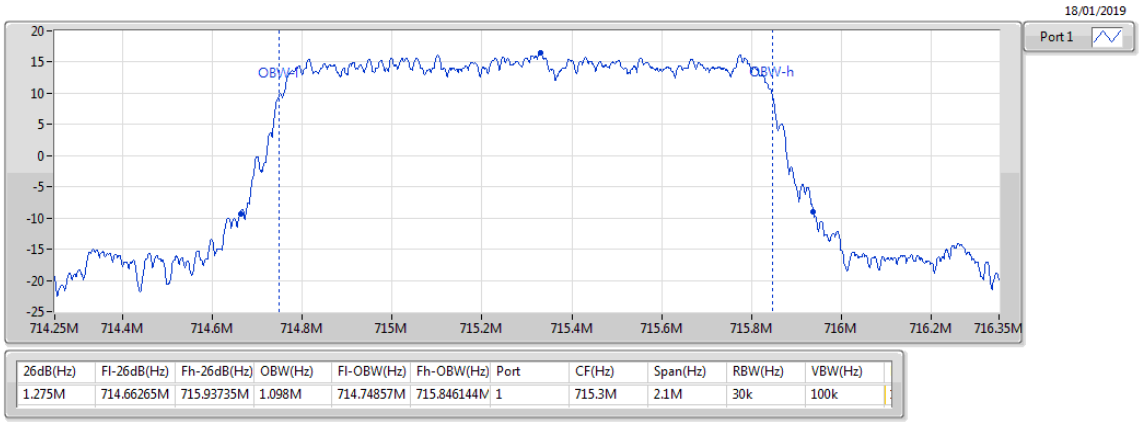
707.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.282M	706.85635M	708.1384M	1.096M	706.949824M	708.045604M	1	707.5M	2.1M	30k	100k

Band 12_LTE-M1_1.4MHz_Nss1_1TX **EBW**

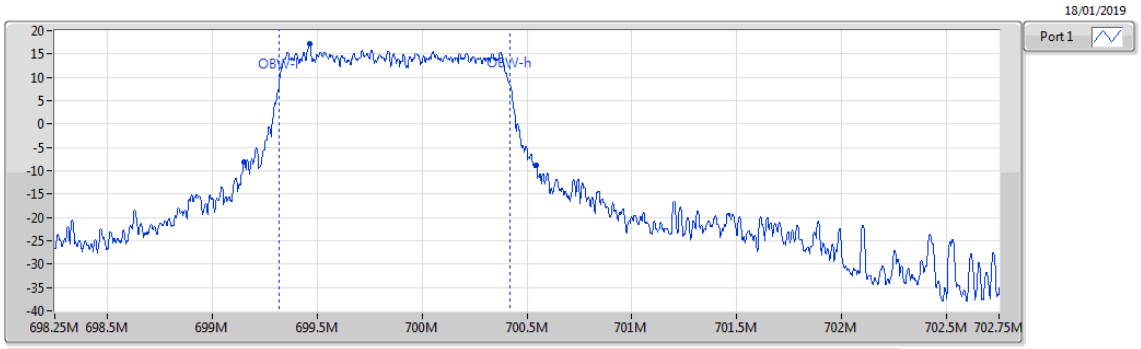
715.3MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.275M	714.66265M	715.93735M	1.098M	714.74857M	715.846144M	1	715.3M	2.1M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

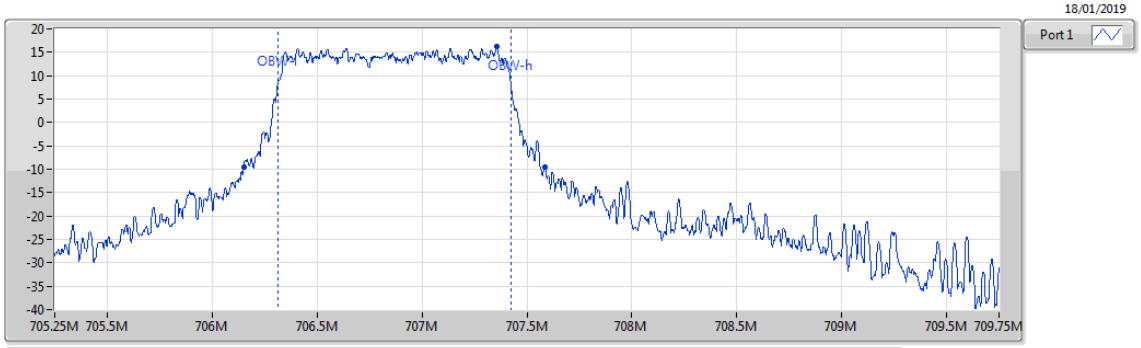
700.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.395M	699.15M	700.545M	1.104M	699.316709M	700.42096M	1	700.5M	4.5M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

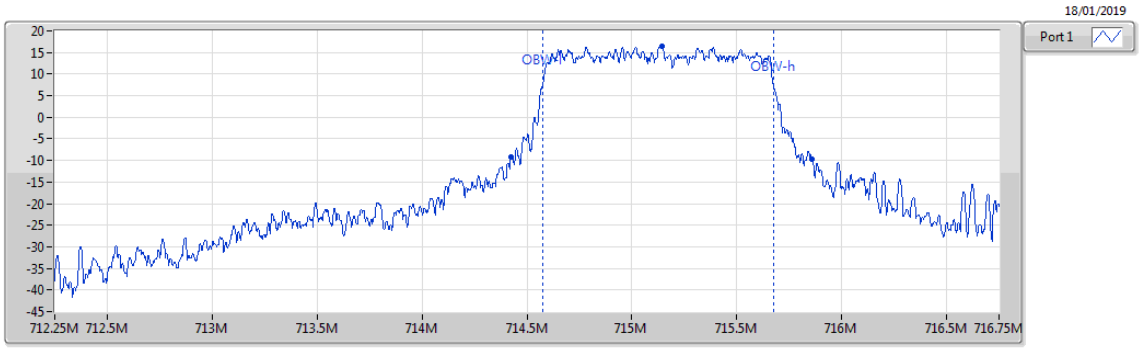
707.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.438M	706.15M	707.58775M	1.113M	706.312316M	707.425396M	1	707.5M	4.5M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

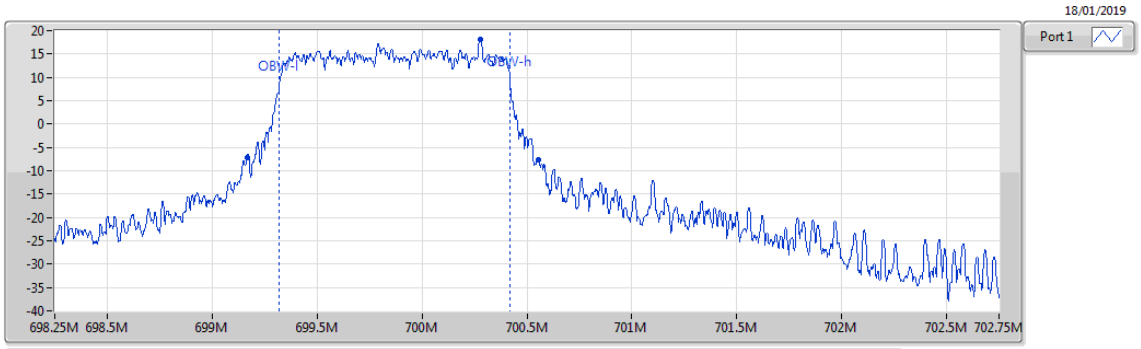
714.5MHz_QPSK_RB 6,#RB 0,NB 1



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.433M	714.4235M	715.85675M	1.101M	714.576994M	715.677532M	1	714.5M	4.5M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

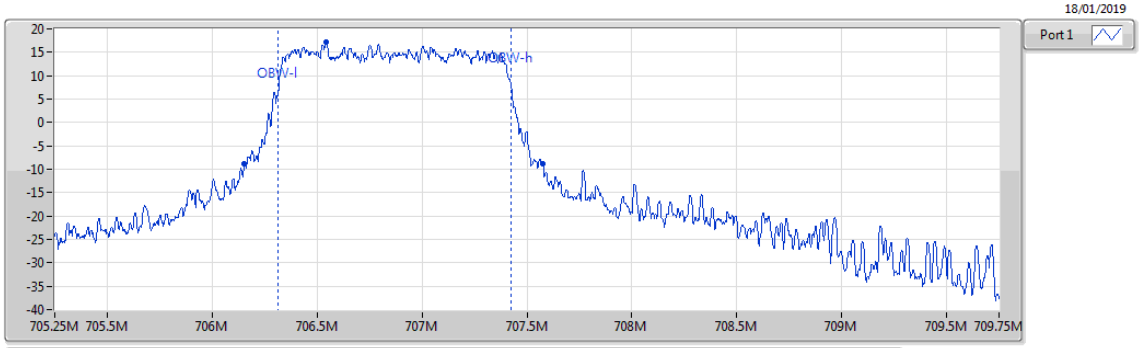
700.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.391M	699.16575M	700.55625M	1.104M	699.317731M	700.421557M	1	700.5M	4.5M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

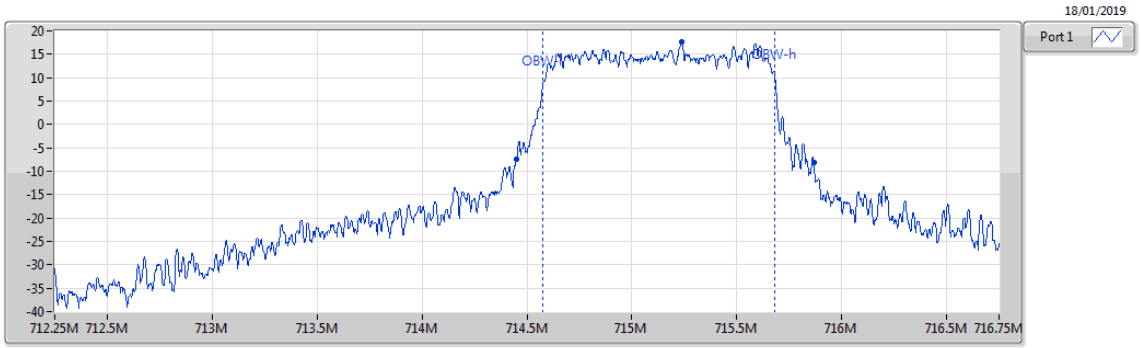
707.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.42M	706.1545M	707.57425M	1.111M	706.31123M	707.422025M	1	707.5M	4.5M	30k	100k

Band 12_LTE-M1_3MHz_Nss1_1TX **EBW**

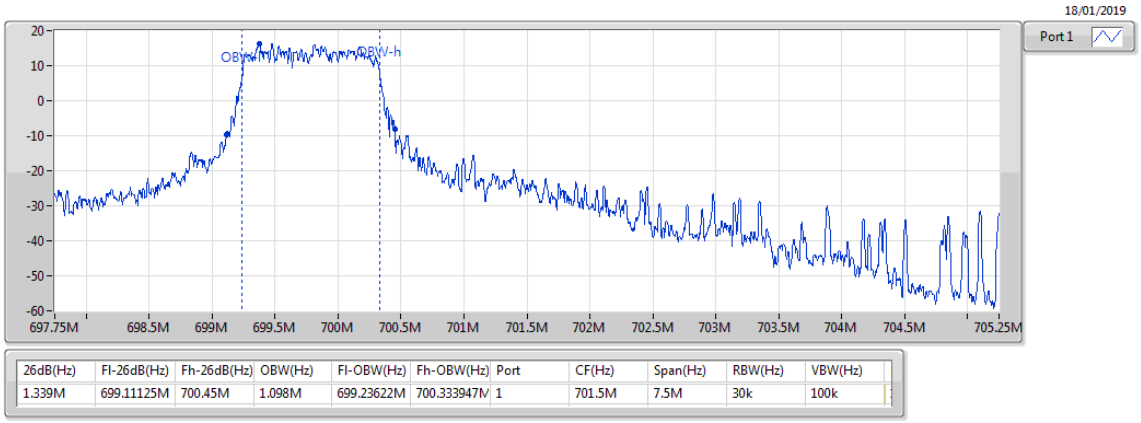
714.5MHz_16QAM_RB 6,#RB 0,NB 1



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.42M	714.44825M	715.868M	1.107M	714.575685M	715.682704M	1	714.5M	4.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

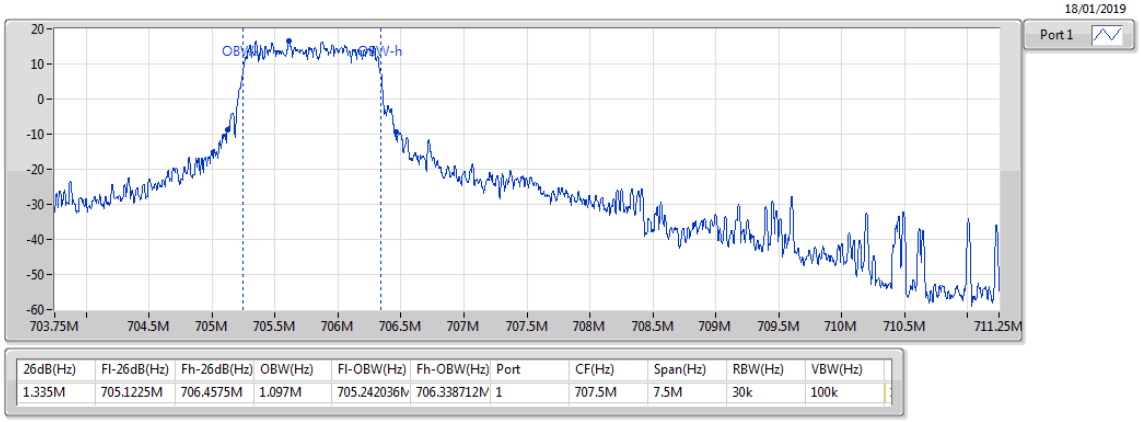
701.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.339M	699.11125M	700.45M	1.098M	699.23622M	700.333947M	1	701.5M	7.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

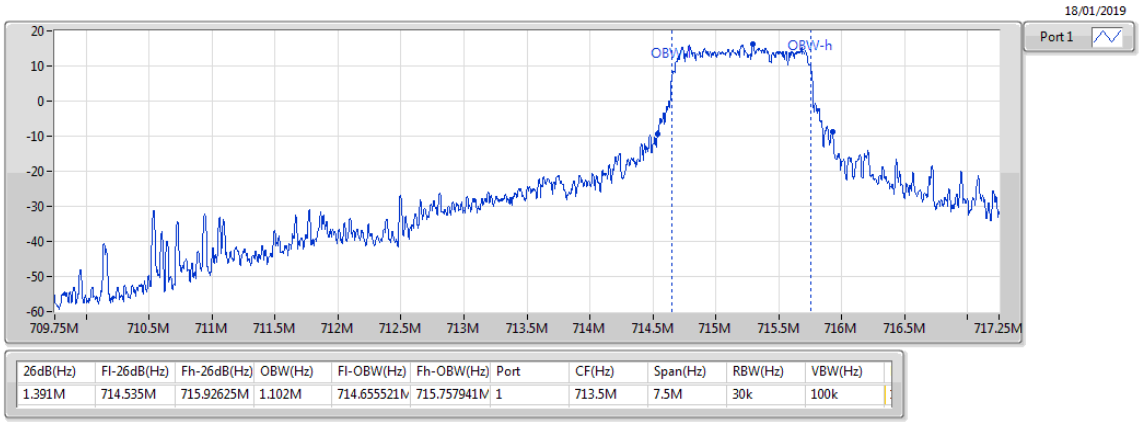
707.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.335M	705.1225M	706.4575M	1.097M	705.242036M	706.338712M	1	707.5M	7.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

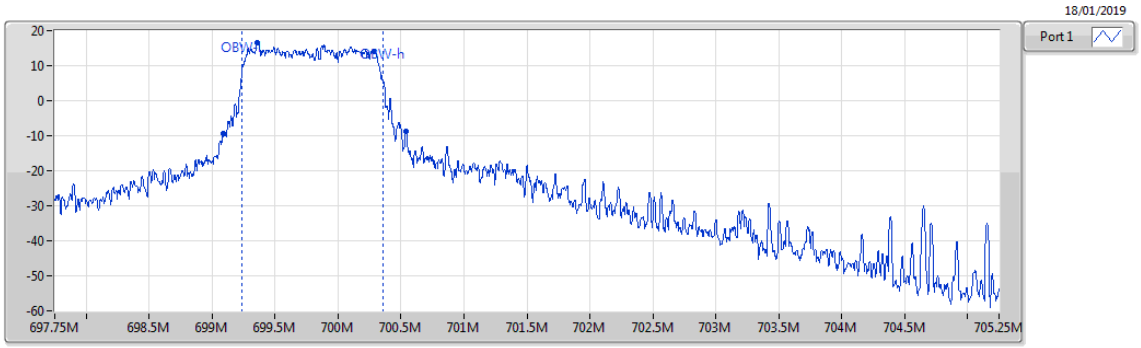
713.5MHz_QPSK_RB 6,#RB 0,NB 3



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.391M	714.535M	715.92625M	1.102M	714.655521M	715.757941M	1	713.5M	7.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

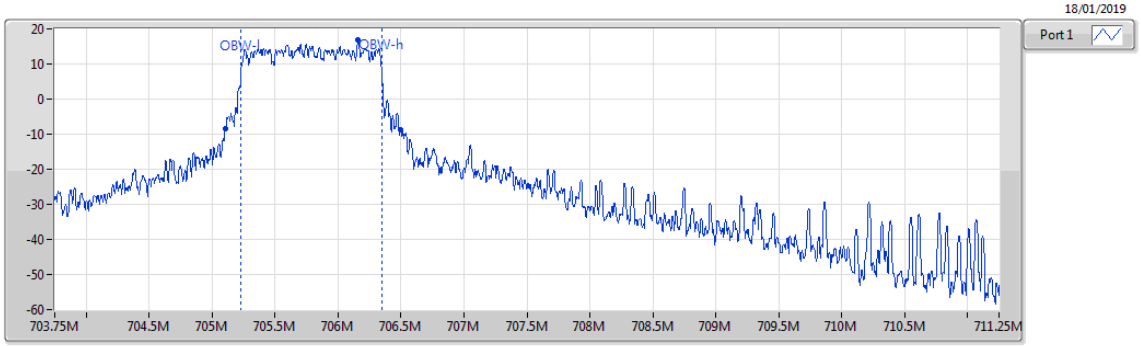
701.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.459M	699.085M	700.54375M	1.115M	699.238389M	700.353186M	1	701.5M	7.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

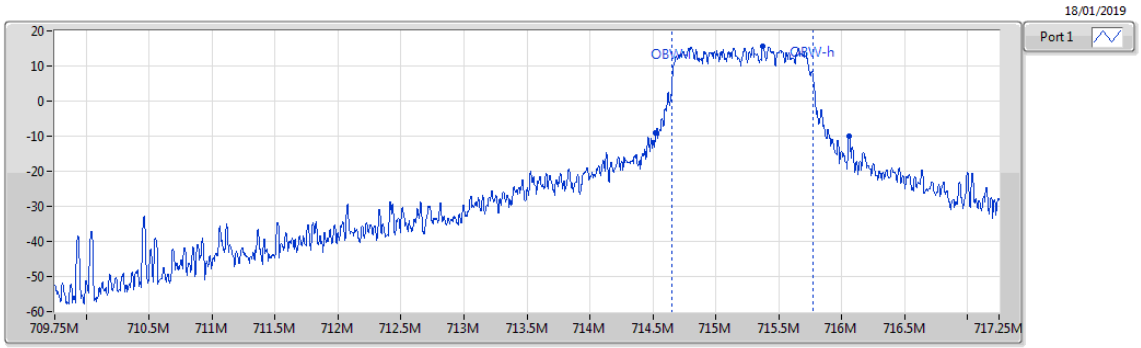
707.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.395M	705.10375M	706.49875M	1.115M	705.230978M	706.346375M	1	707.5M	7.5M	30k	100k

Band 12_LTE-M1_5MHz_Nss1_1TX **EBW**

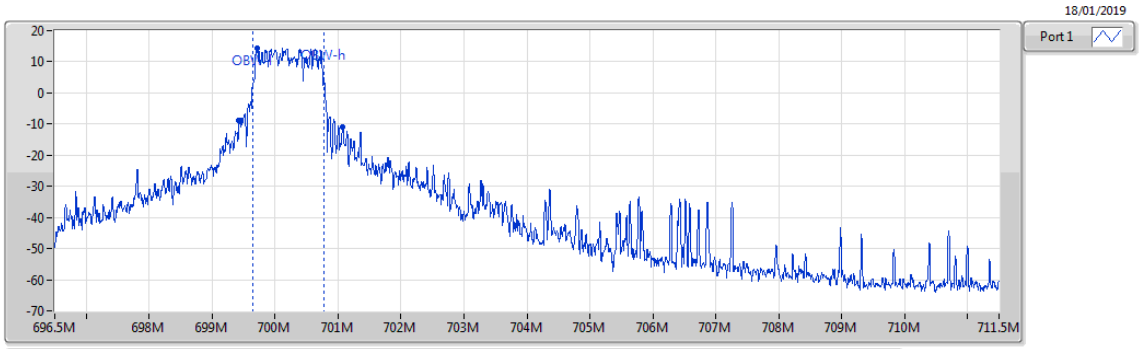
713.5MHz_16QAM_RB 6,#RB 0,NB 3



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.538M	714.52375M	716.06125M	1.114M	714.655524M	715.769553M	1	713.5M	7.5M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

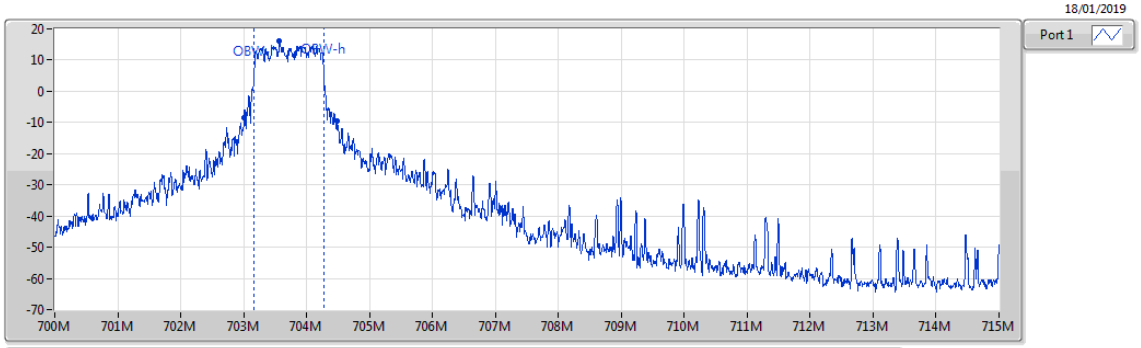
704MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.65M	699.425M	701.075M	1.128M	699.647385M	700.775875M	1	704M	15M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

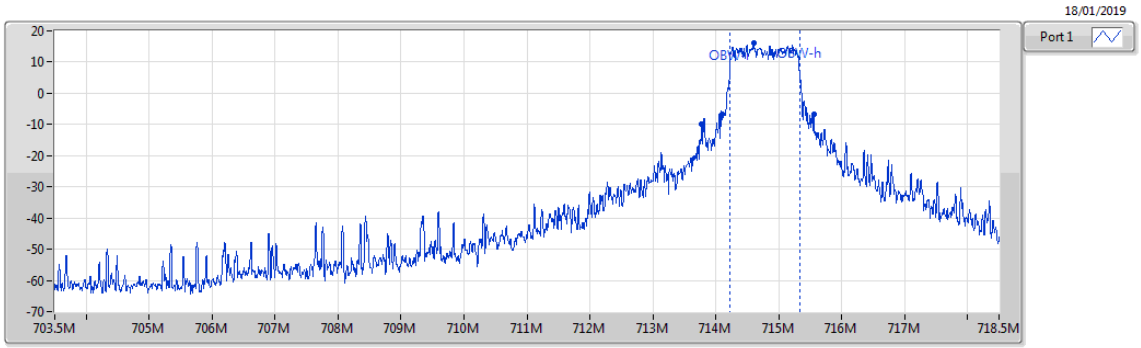
707.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.485M	703.0075M	704.4925M	1.108M	703.164091M	704.272457M	1	707.5M	15M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

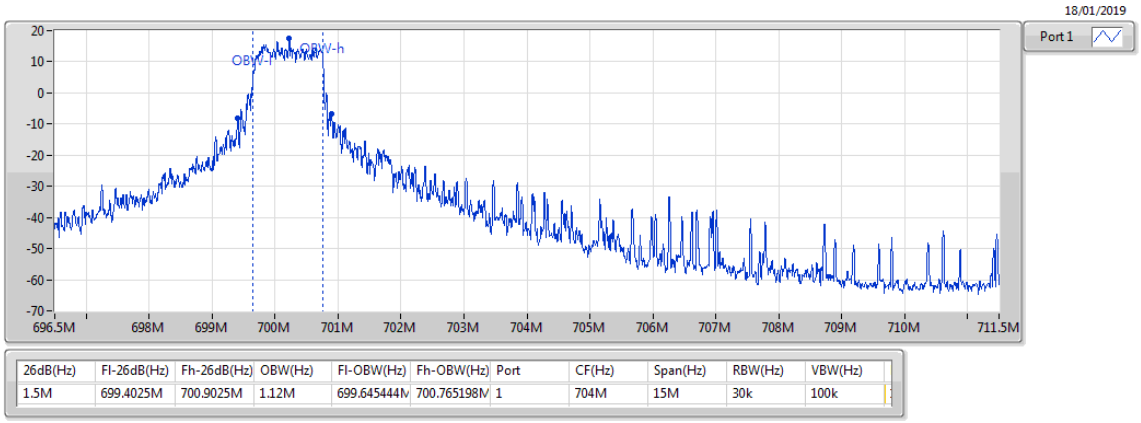
711MHz_QPSK_RB 6,#RB 0,NB 7



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.785M	713.775M	715.56M	1.117M	714.219693M	715.336394M	1	711M	15M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

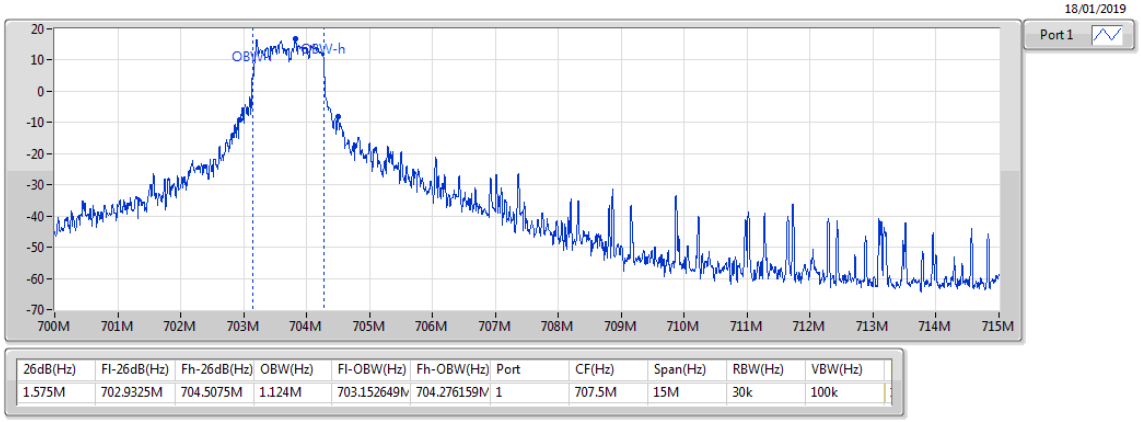
704MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.5M	699.4025M	700.9025M	1.12M	699.645444M	700.765198M	1	704M	15M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

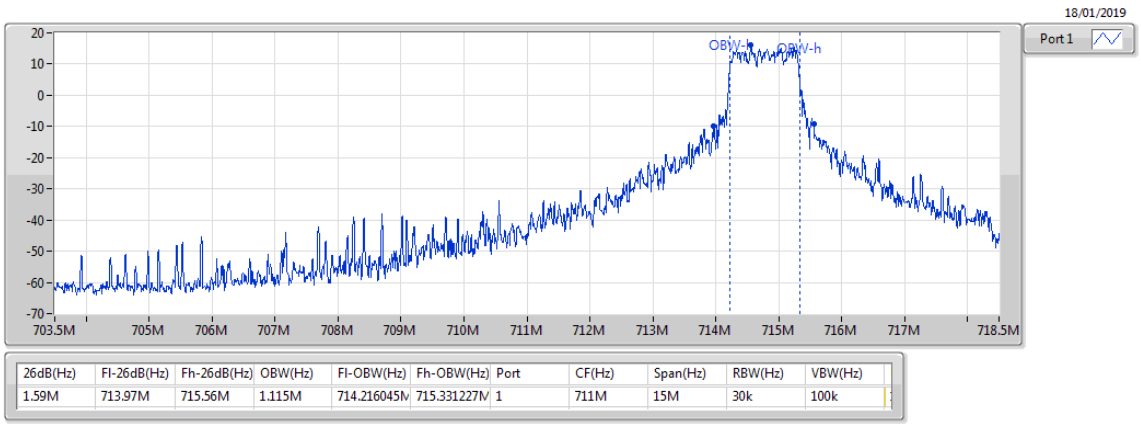
707.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.575M	702.9325M	704.5075M	1.124M	703.152649M	704.276159M	1	707.5M	15M	30k	100k

Band 12_LTE-M1_10MHz_Nss1_1TX **EBW**

711MHz_16QAM_RB 6,#RB 0,NB 7



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.59M	713.97M	715.56M	1.115M	714.216045M	715.331227M	1	711M	15M	30k	100k

Summary of LTE Band 13

Mode	Max-OBW	ITU-Code	Min-OBW
	(Hz)		(Hz)
Band 13_LTE-M1_5MHz_Nss1_1TX_RB 6	1.11M	1M11	1.087M
Band 13_LTE-M1_10MHz_Nss1_1TX_RB 6	1.127M	1M13	1.118M

Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

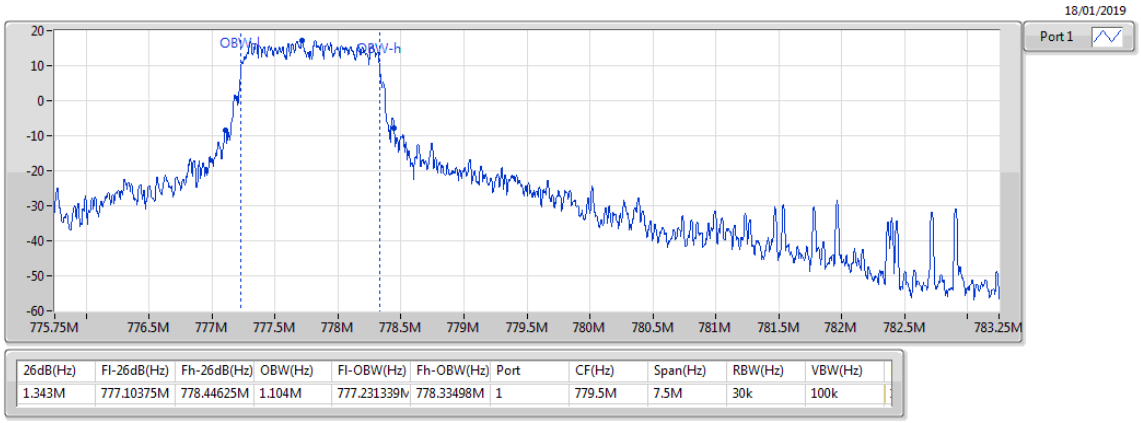
Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
LTE-M1_5MHz_Nss1_1TX	-	-	-	-
779.5MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.343M	1.104M
782MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.444M	1.094M
784.5MHz_QPSK_RB 6,#RB 0,NB 3	Pass	Inf	1.436M	1.087M
779.5MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.53M	1.109M
782MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.339M	1.11M
784.5MHz_16QAM_RB 6,#RB 0,NB 3	Pass	Inf	1.436M	1.108M
LTE-M1_10MHz_Nss1_1TX	-	-	-	-
782MHz_QPSK_RB 6,#RB 0,NB 0	Pass	Inf	1.635M	1.118M
782MHz_16QAM_RB 6,#RB 0,NB 0	Pass	Inf	1.478M	1.127M

Port X-N dB = Port **X** 26dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

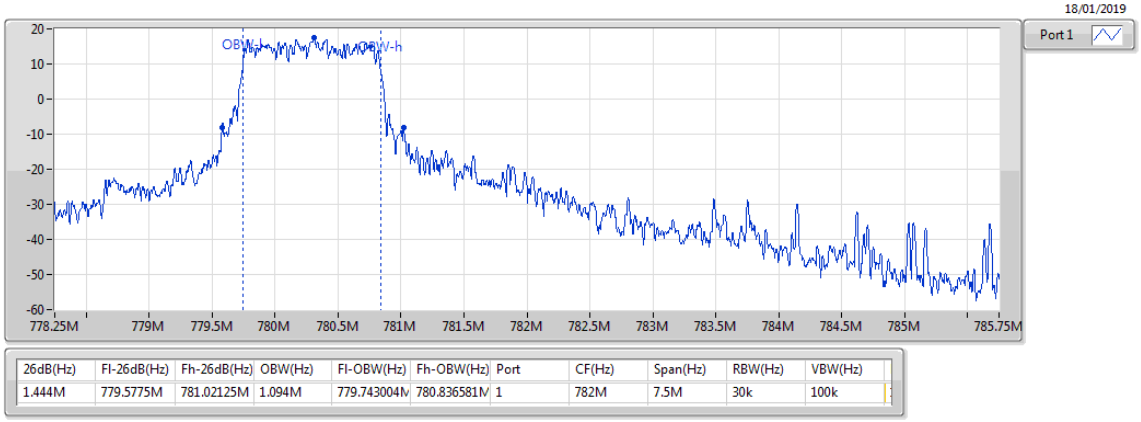
779.5MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.343M	777.10375M	778.44625M	1.104M	777.231339M	778.33498M	1	779.5M	7.5M	30k	100k

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

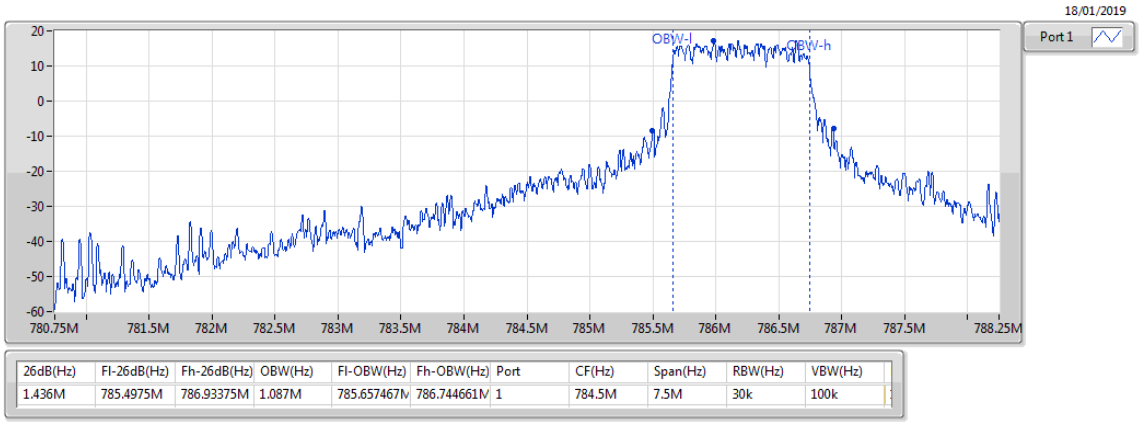
782MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.444M	779.5775M	781.02125M	1.094M	779.743004M	780.836581M	1	782M	7.5M	30k	100k

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

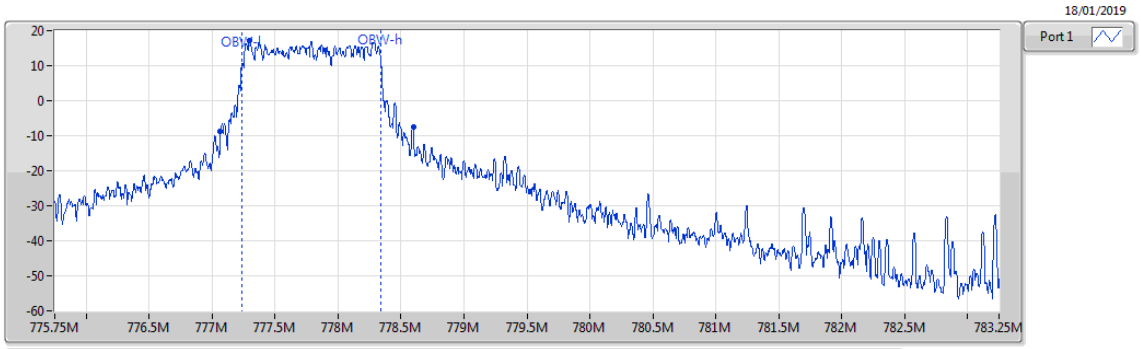
784.5MHz_QPSK_RB 6,#RB 0,NB 3



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.436M	785.4975M	786.93375M	1.087M	785.657467M	786.744661M	1	784.5M	7.5M	30k	100k

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

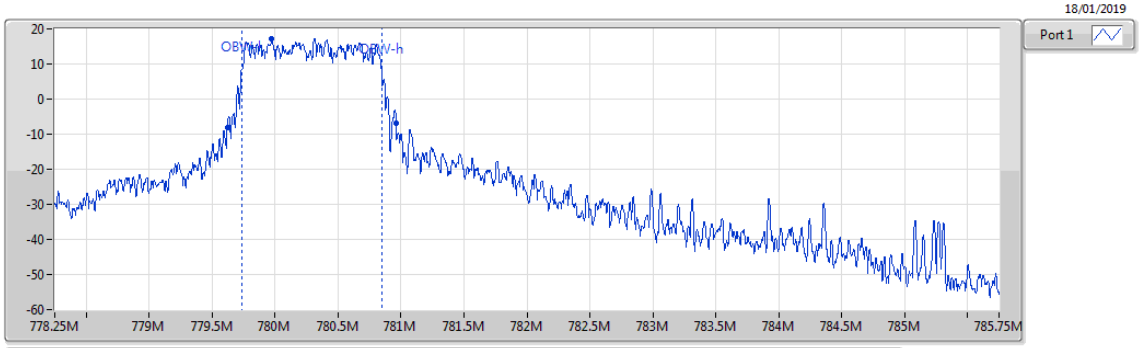
779.5MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.53M	777.06625M	778.59625M	1.109M	777.234228M	778.342924M	1	779.5M	7.5M	30k	100k

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

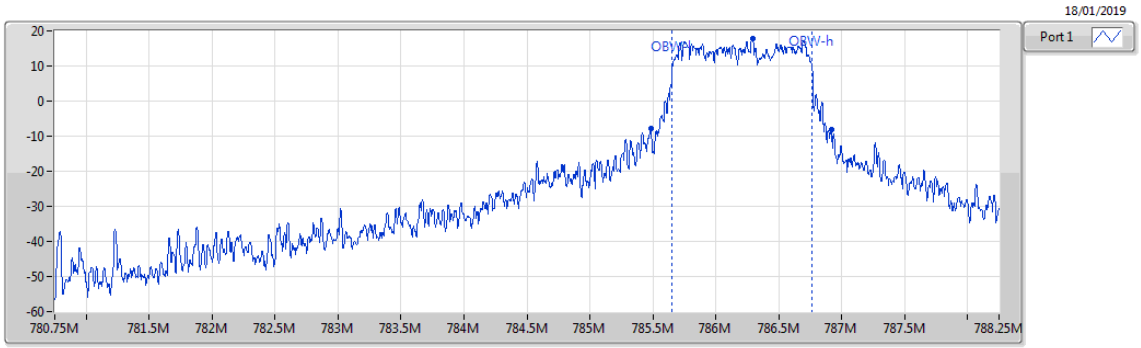
782MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.339M	779.6225M	780.96125M	1.11M	779.736062M	780.846439M	1	782M	7.5M	30k	100k

Band 13_LTE-M1_5MHz_Nss1_1TX **EBW**

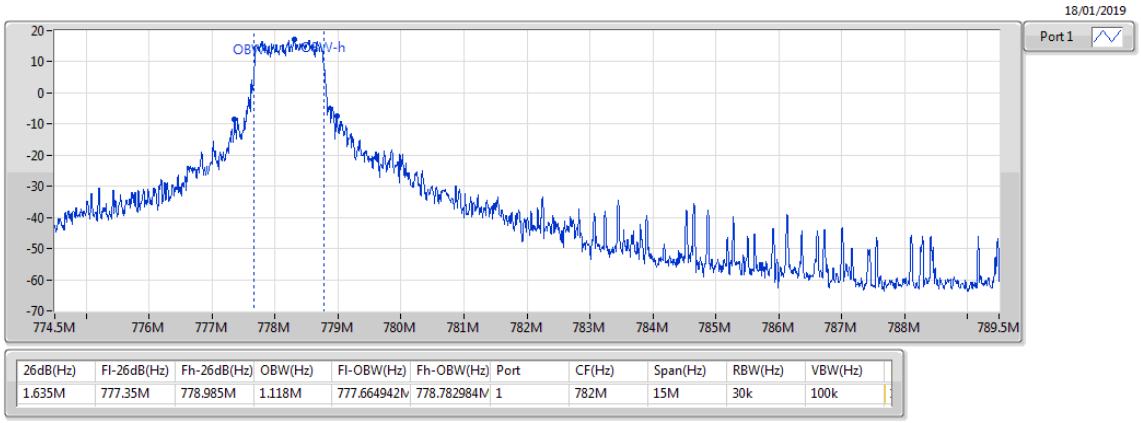
784.5MHz_16QAM_RB 6,#RB 0,NB 3



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.436M	785.4825M	786.91875M	1.108M	785.654938M	786.762743M	1	784.5M	7.5M	30k	100k

Band 13_LTE-M1_10MHz_Nss1_1TX **EBW**

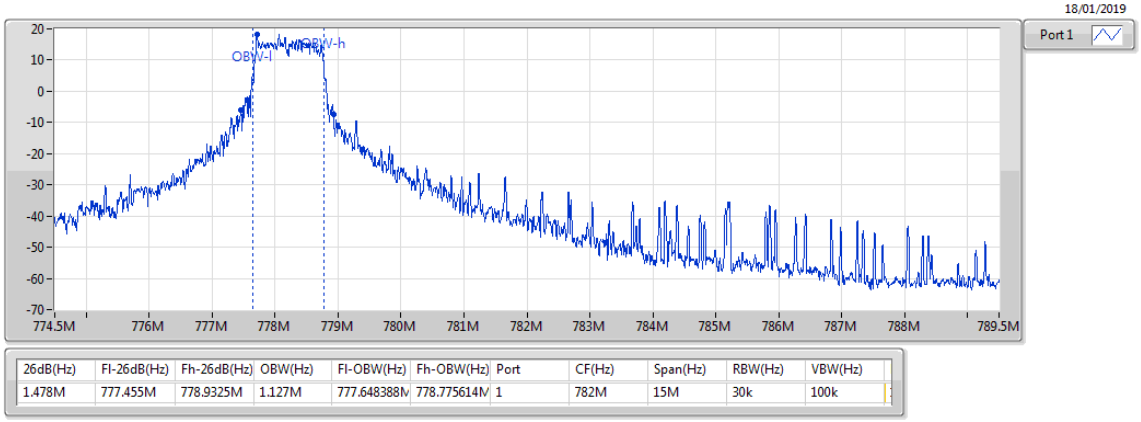
782MHz_QPSK_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.635M	777.35M	778.985M	1.118M	777.664942M	778.782984M	1	782M	15M	30k	100k

Band 13_LTE-M1_10MHz_Nss1_1TX **EBW**

782MHz_16QAM_RB 6,#RB 0,NB 0



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Port	CF(Hz)	Span(Hz)	RBW(Hz)	VBW(Hz)
1.478M	777.455M	778.9325M	1.127M	777.648388M	778.775614M	1	782M	15M	30k	100k

3.5 Frequency Stability

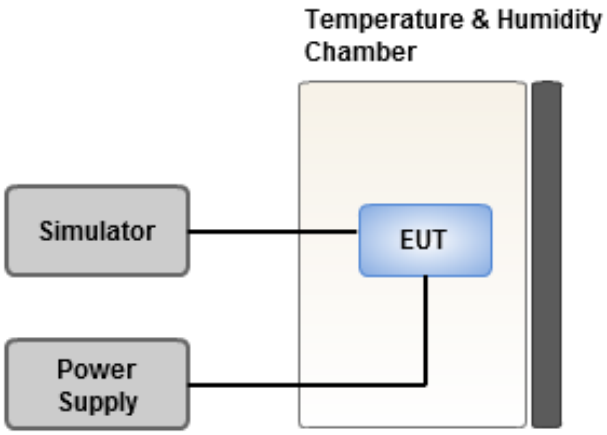
3.5.1 Limit of Frequency Stability

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

3.5.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. The test shall be performed under normal and extreme condition for temperature and voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.5.3 Test Setup



3.5.4 Test Result of Frequency Stability

LTE Band: 12	Frequency Drift (ppm)			
Temperature (°C)	CB: 1.4MHz	CB: 3MHz	CB: 5MHz	CB: 10MHz
T20°CVmax	-0.014	-0.013	-0.013	-0.013
T20°CVmin	-0.013	-0.013	-0.013	-0.13
T75°CVnom	-0.046	-0.043	-0.045	-0.044
T70°CVnom	-0.041	-0.042	-0.044	-0.043
T60°CVnom	-0.038	-0.037	-0.039	-0.036
T50°CVnom	-0.033	-0.034	-0.036	-0.031
T40°CVnom	-0.027	-0.025	-0.028	-0.025
T30°CVnom	-0.015	-0.016	-0.016	-0.014
T20°CVnom	-0.014	-0.013	-0.012	-0.012
T10°CVnom	-0.013	-0.012	-0.012	-0.012
T0°CVnom	-0.013	-0.012	-0.012	-0.012
T-10°CVnom	-0.012	-0.011	-0.011	-0.011
T-20°CVnom	-0.011	-0.01	-0.01	-0.011
T-30°CVnom	-0.011	-0.01	-0.01	-0.011
T-35°CVnom	-0.009	-0.01	-0.01	-0.01
Vnom [V]: 3.6	Vmax [V]: 3.7		Vmin [V]: 2.45	
Tnom [°C]: 20	Tmax [°C]: 75		Tmin [°C]: -35	

LTE Band: 13	Frequency Drift (ppm)	
Temperature (°C)	CB: 5MHz	CB: 10MHz
T20°CVmax	-0.013	-0.012
T20°CVmin	-0.013	-0.013
T75°CVnom	-0.043	-0.041
T70°CVnom	-0.04	-0.038
T60°CVnom	-0.037	-0.035
T50°CVnom	-0.031	-0.028
T40°CVnom	-0.025	-0.027
T30°CVnom	-0.011	-0.016
T20°CVnom	-0.013	-0.013
T10°CVnom	-0.012	-0.013
T0°CVnom	-0.012	-0.012
T-10°CVnom	-0.012	-0.012
T-20°CVnom	-0.009	-0.011
T-30°CVnom	-0.008	-0.009
T-35°CVnom	-0.008	-0.008
Vnom [V]: 3.6	Vmax [V]: 3.7	Vmin [V]: 2.45
Tnom [°C]: 20	Tmax [°C]: 75	Tmin [°C]: -35

3.6 Peak to Average Ratio

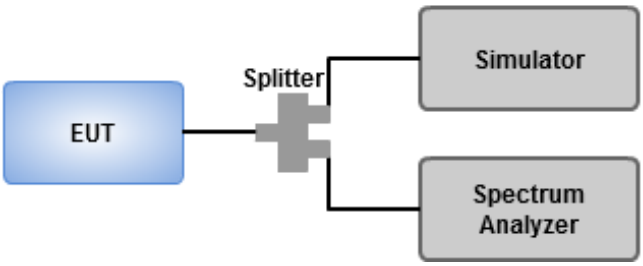
3.6.1 Limit of Peak to Average Ratio

The Peakto-average ratio (PAR) of the transmiss ion may not exceed 13 dB.

3.6.2 Test Procedures

1. Set the number of counts to a value that stabilizes the measured CCDF curve.
2. Set the measurement interval to 1 ms.
3. Record the maximum PAPR level associated with a probability of 0.1%.

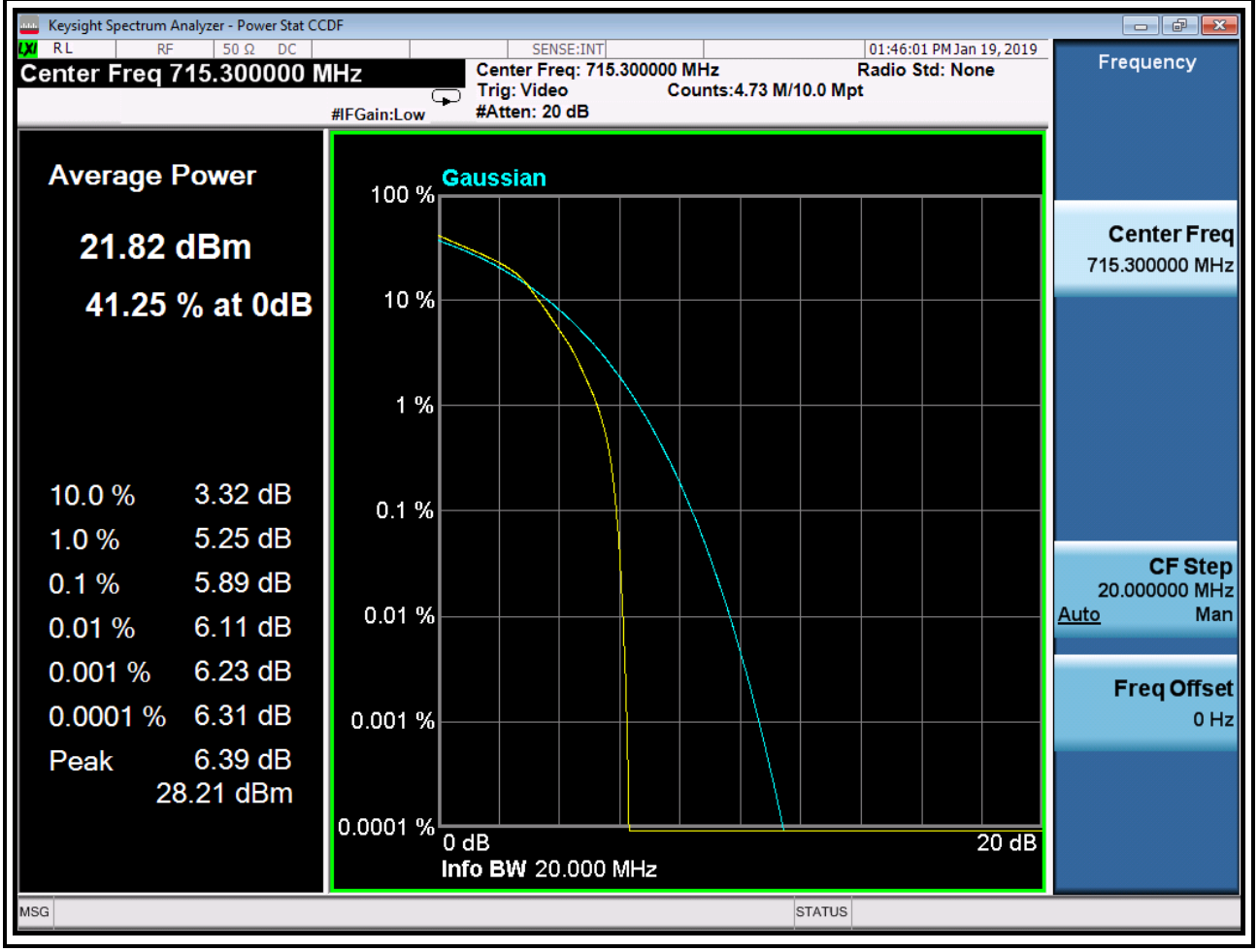
3.6.3 Test Setup



3.6.4 Test Result of Peak to Average Ratio

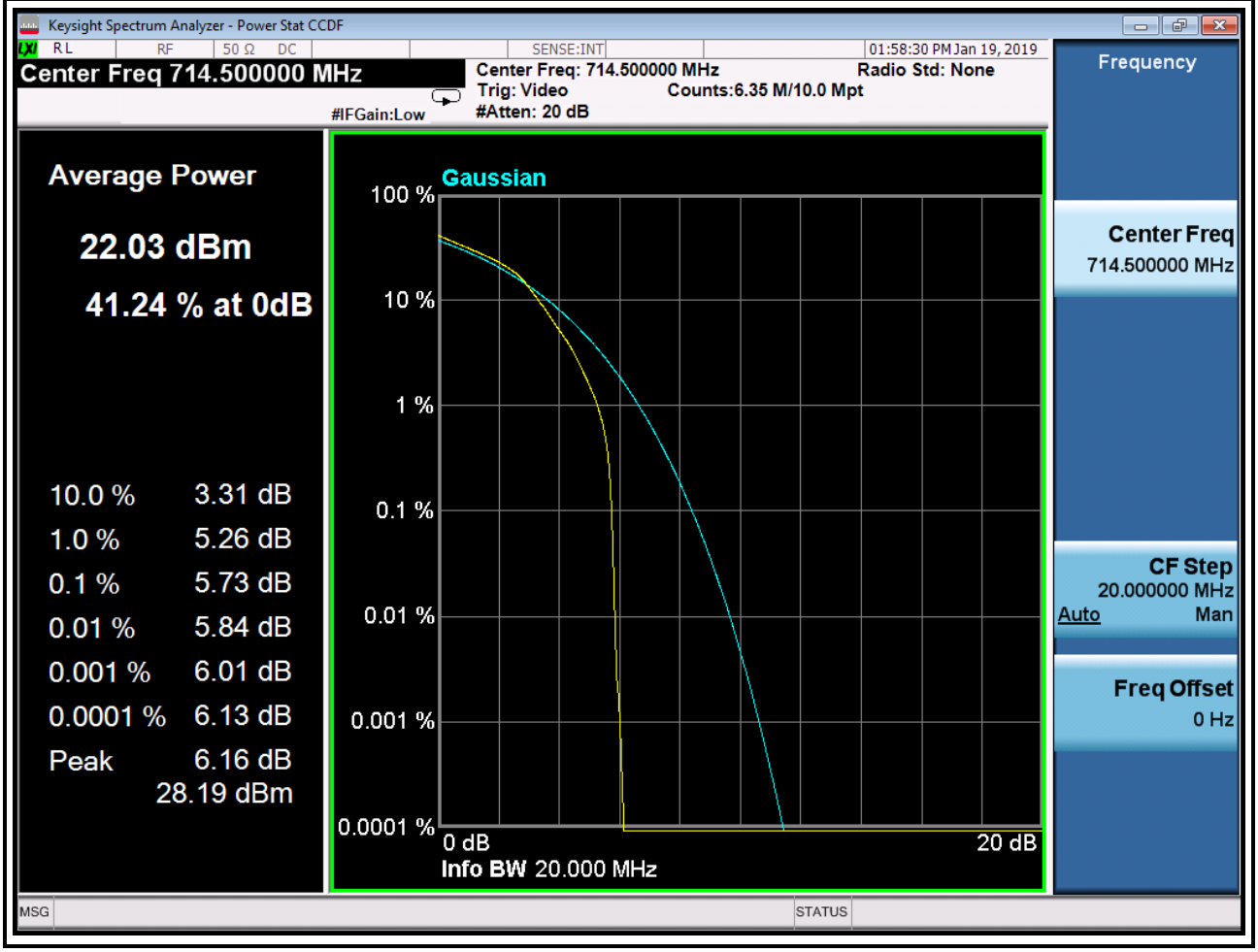
Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 12	1.4	QPSK	23017	699.7	5.38
LTE Band 12	1.4	QPSK	23095	707.5	5.48
LTE Band 12	1.4	QPSK	23173	715.3	5.52
LTE Band 12	1.4	16QAM	23017	699.7	5.88
LTE Band 12	1.4	16QAM	23095	707.5	5.88
LTE Band 12	1.4	16QAM	23173	715.3	5.89

Worst plot



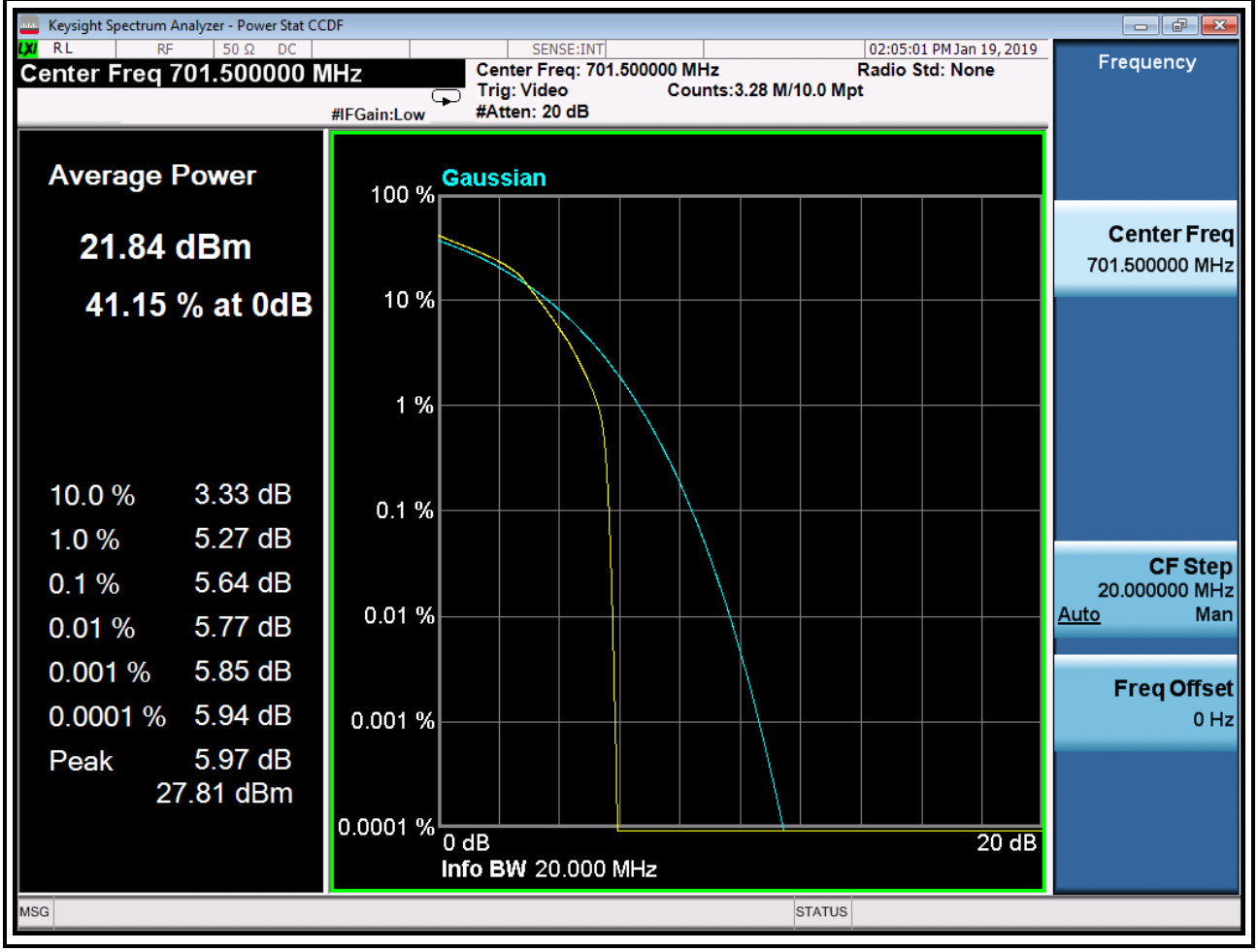
Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 12	3	QPSK	23025	700.5	5.07
LTE Band 12	3	QPSK	23095	707.5	5.18
LTE Band 12	3	QPSK	23165	714.5	5.21
LTE Band 12	3	16QAM	23025	700.5	5.65
LTE Band 12	3	16QAM	23095	707.5	5.68
LTE Band 12	3	16QAM	23165	714.5	5.73

Worst plot



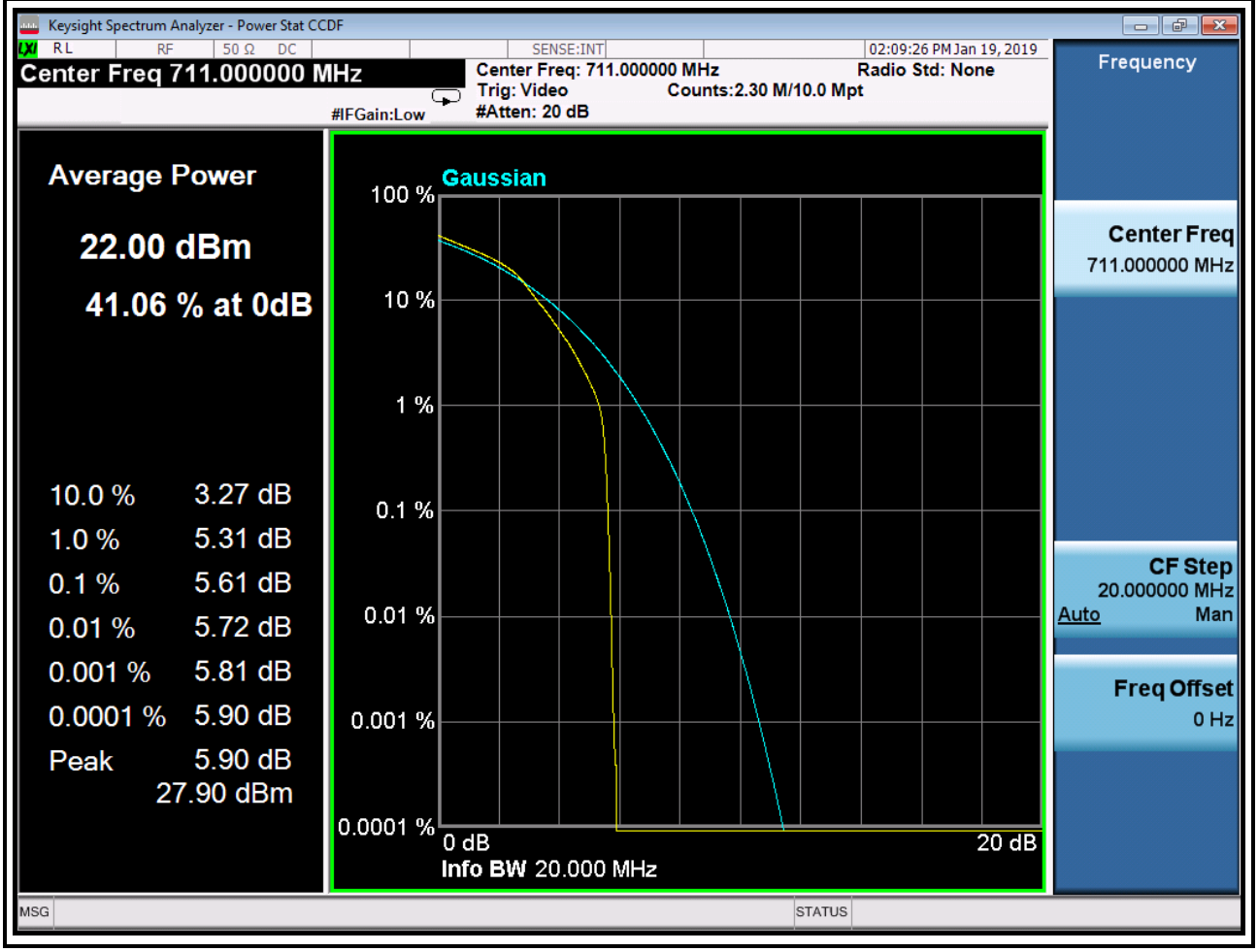
Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 12	5	QPSK	23035	701.5	5.05
LTE Band 12	5	QPSK	23095	707.5	4.99
LTE Band 12	5	QPSK	23155	713.5	5.20
LTE Band 12	5	16QAM	23035	701.5	5.64
LTE Band 12	5	16QAM	23095	707.5	5.51
LTE Band 12	5	16QAM	23155	713.5	5.61

Worst plot



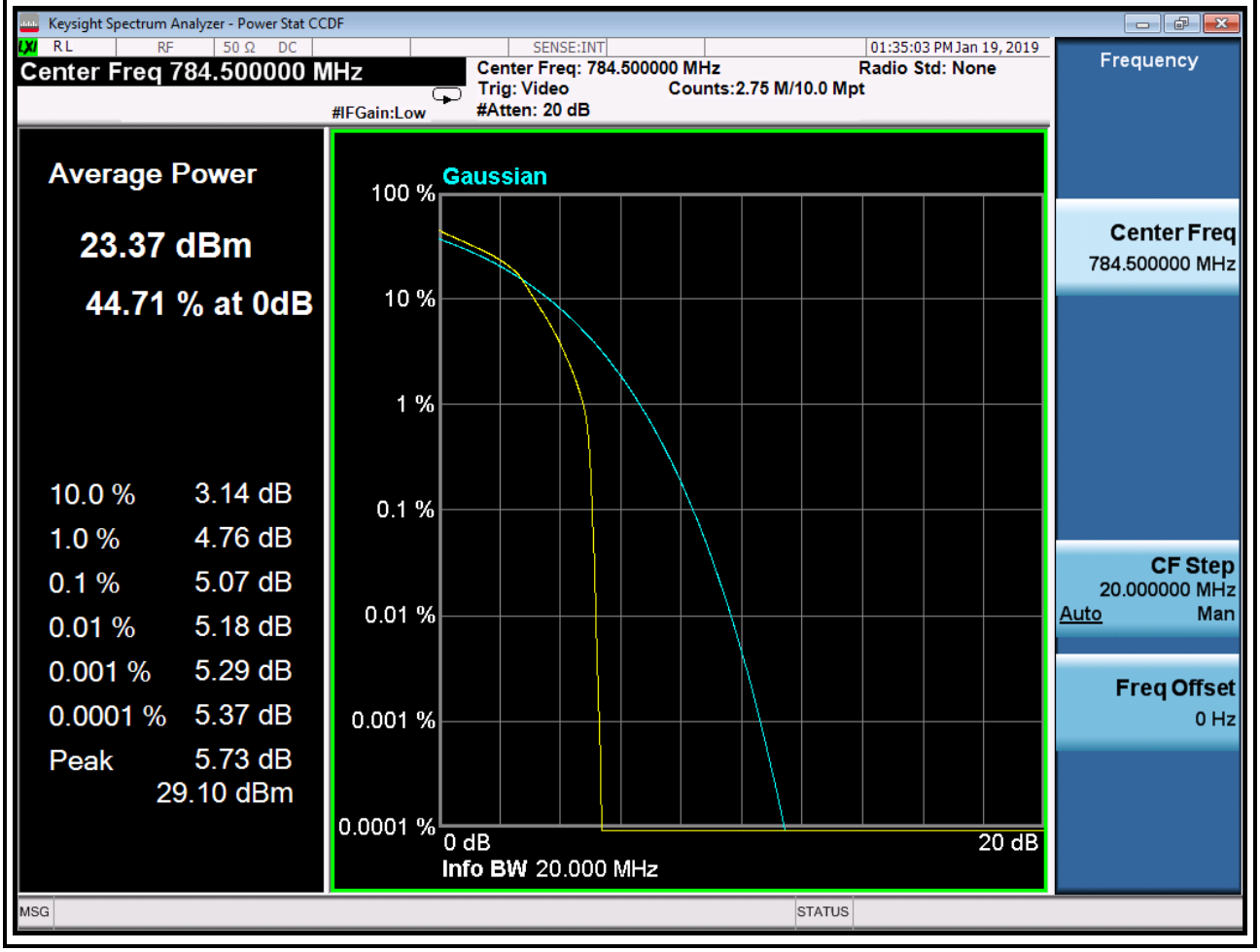
Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 12	10	QPSK	23060	704.0	4.97
LTE Band 12	10	QPSK	23095	707.5	4.87
LTE Band 12	10	QPSK	23130	711.0	4.99
LTE Band 12	10	16QAM	23060	704.0	5.52
LTE Band 12	10	16QAM	23095	707.5	5.52
LTE Band 12	10	16QAM	23130	711.0	5.61

Worst plot



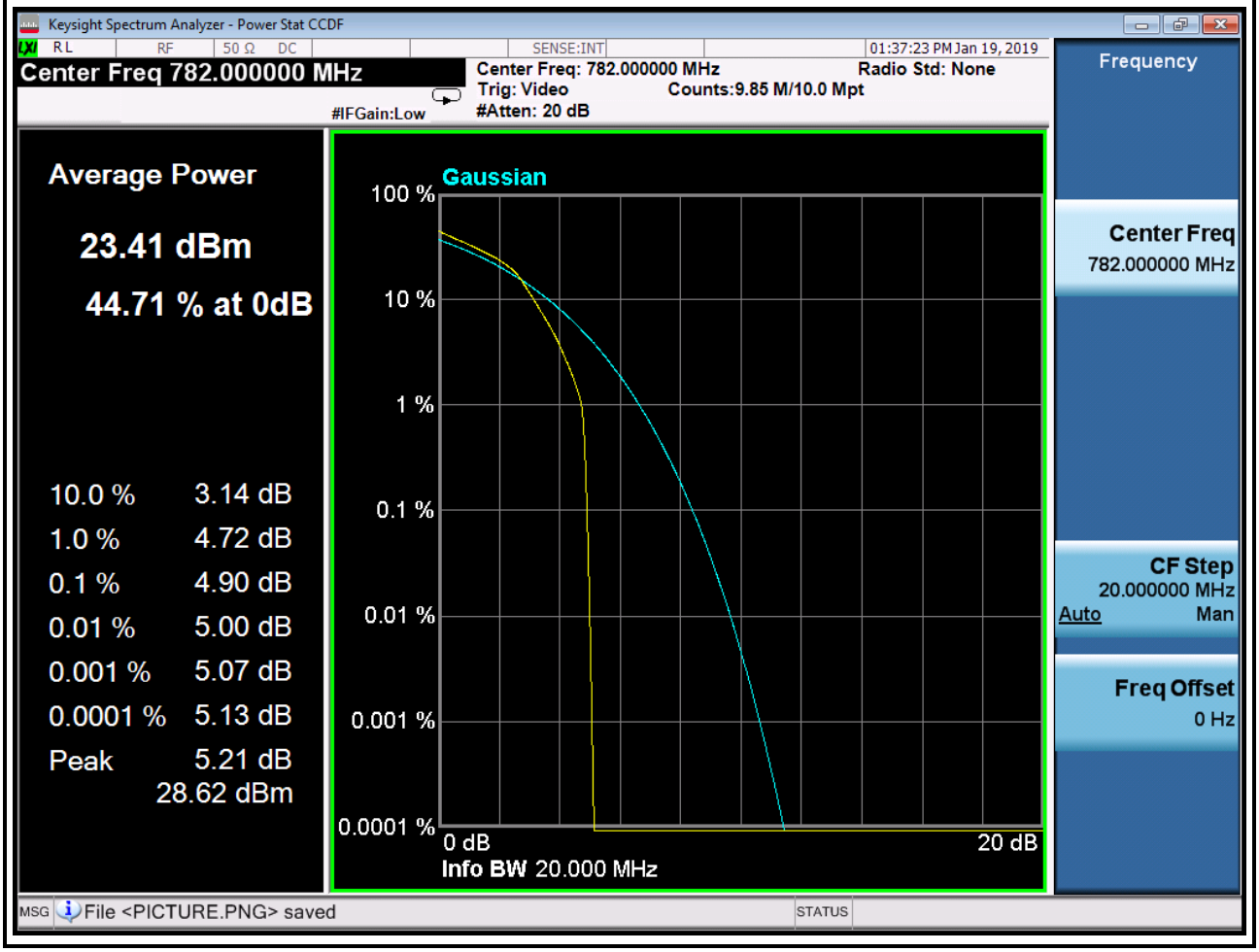
Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 13	5	QPSK	23205	779.5	4.62
LTE Band 13	5	QPSK	23230	782.0	4.47
LTE Band 13	5	QPSK	23255	784.5	4.57
LTE Band 13	5	16QAM	23205	779.5	5.04
LTE Band 13	5	16QAM	23230	782.0	4.93
LTE Band 13	5	16QAM	23255	784.5	5.07

Worst plot



Mode	Channel Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak to Average Ratio (dB)
LTE Band 13	10	QPSK	23230	782.0	4.43
LTE Band 13	10	16QAM	23230	782.0	4.90

Worst plot



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0155
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