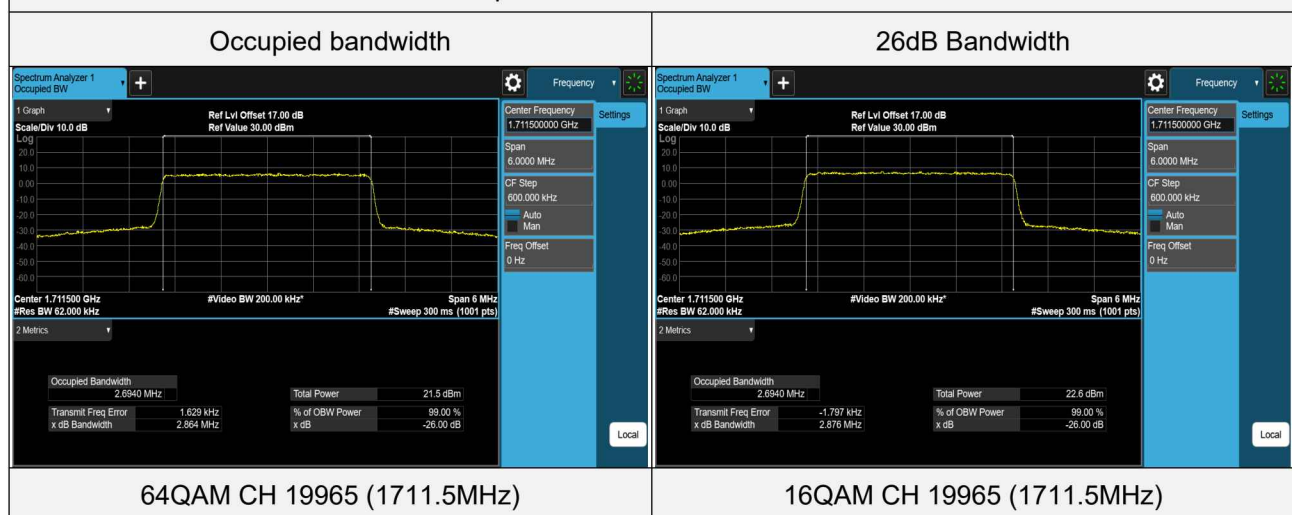


LTE Band 4 (Channel Bandwidth 3MHz)

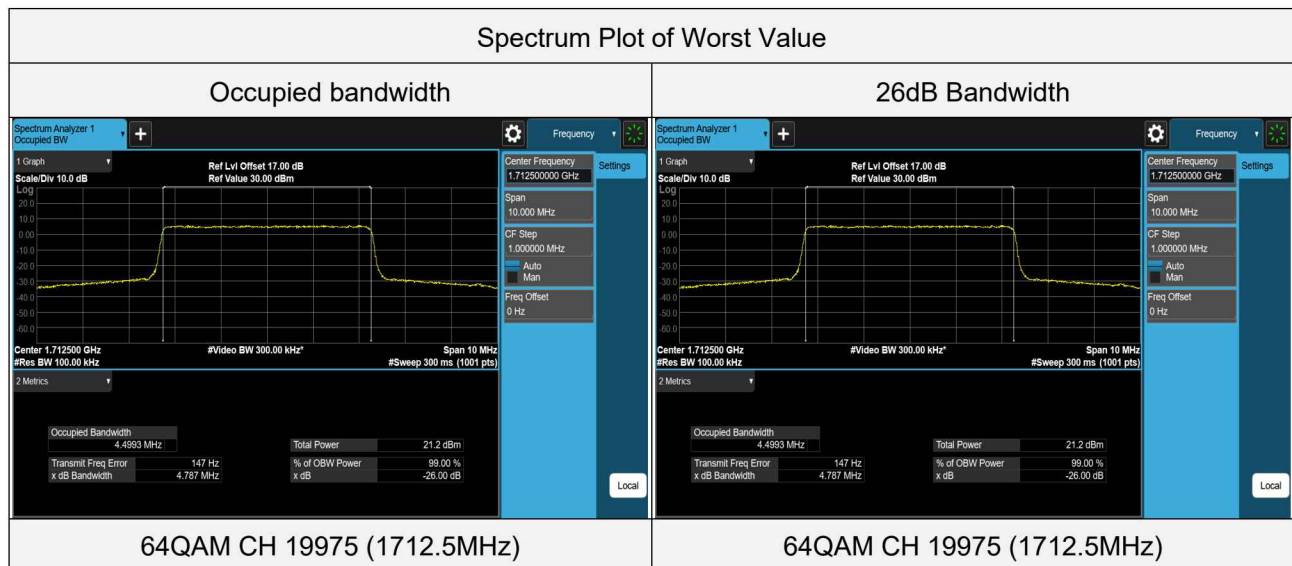
Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	19965	1711.5	2.6933	2.869
QPSK	20175	1732.5	2.6936	2.865
QPSK	20385	1753.5	2.6915	2.869
16QAM	19965	1711.5	2.6940	2.876
16QAM	20175	1732.5	2.6928	2.867
16QAM	20385	1753.5	2.6905	2.870
64QAM	19965	1711.5	2.6940	2.864
64QAM	20175	1732.5	2.6934	2.864
64QAM	20385	1753.5	2.6920	2.856

Spectrum Plot of Worst Value



LTE Band 4 (Channel Bandwidth 5MHz)

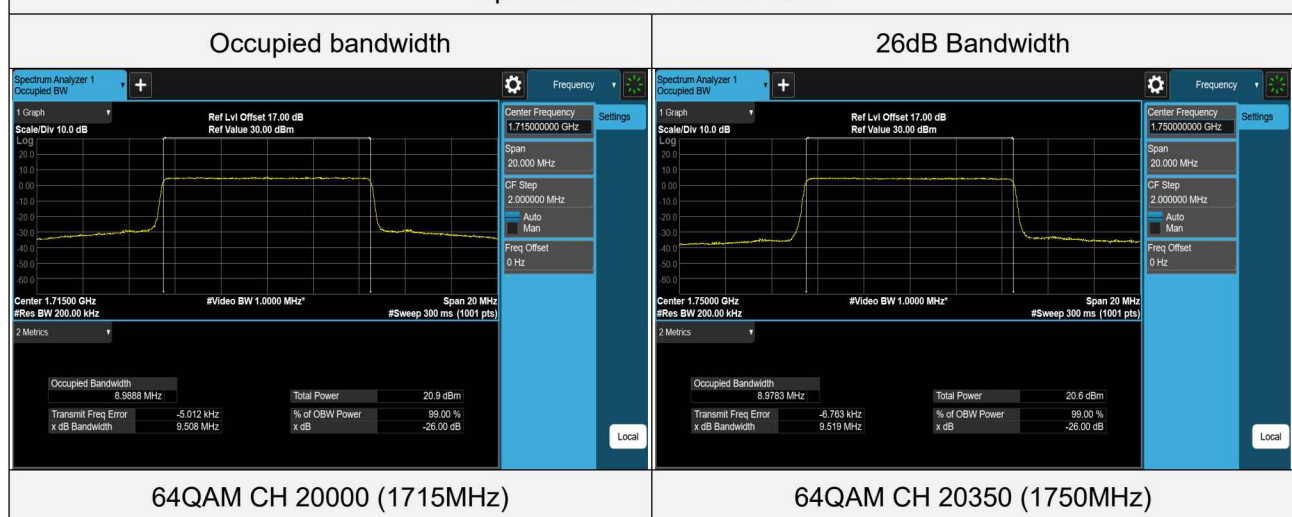
Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4965	4.784
QPSK	20175	1732.5	4.4948	4.778
QPSK	20375	1752.5	4.4927	4.774
16QAM	19975	1712.5	4.4932	4.773
16QAM	20175	1732.5	4.4907	4.769
16QAM	20375	1752.5	4.4922	4.763
64QAM	19975	1712.5	4.4993	4.787
64QAM	20175	1732.5	4.4932	4.783
64QAM	20375	1752.5	4.4930	4.777



LTE Band 4 (Channel Bandwidth 10MHz)

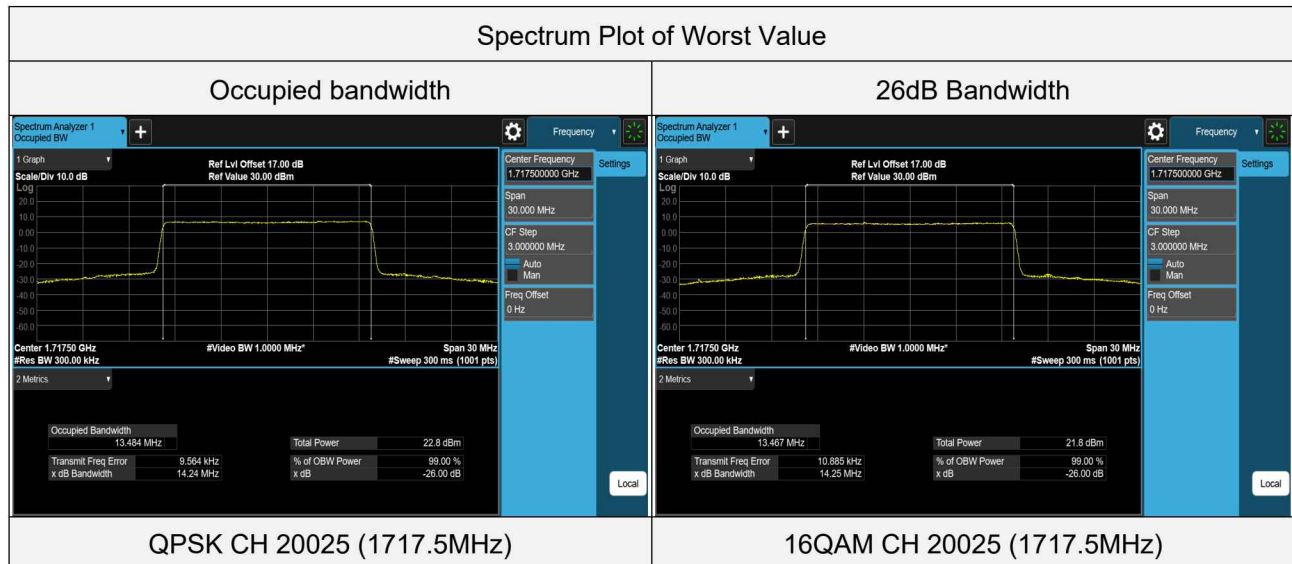
Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20000	1715	8.9845	9.516
QPSK	20175	1732.5	8.9803	9.499
QPSK	20350	1750	8.9769	9.498
16QAM	20000	1715	8.9858	9.502
16QAM	20175	1732.5	8.9791	9.488
16QAM	20350	1750	8.9745	9.498
64QAM	20000	1715	8.9888	9.508
64QAM	20175	1732.5	8.9783	9.505
64QAM	20350	1750	8.9783	9.519

Spectrum Plot of Worst Value



LTE Band 4 (Channel Bandwidth 15MHz)

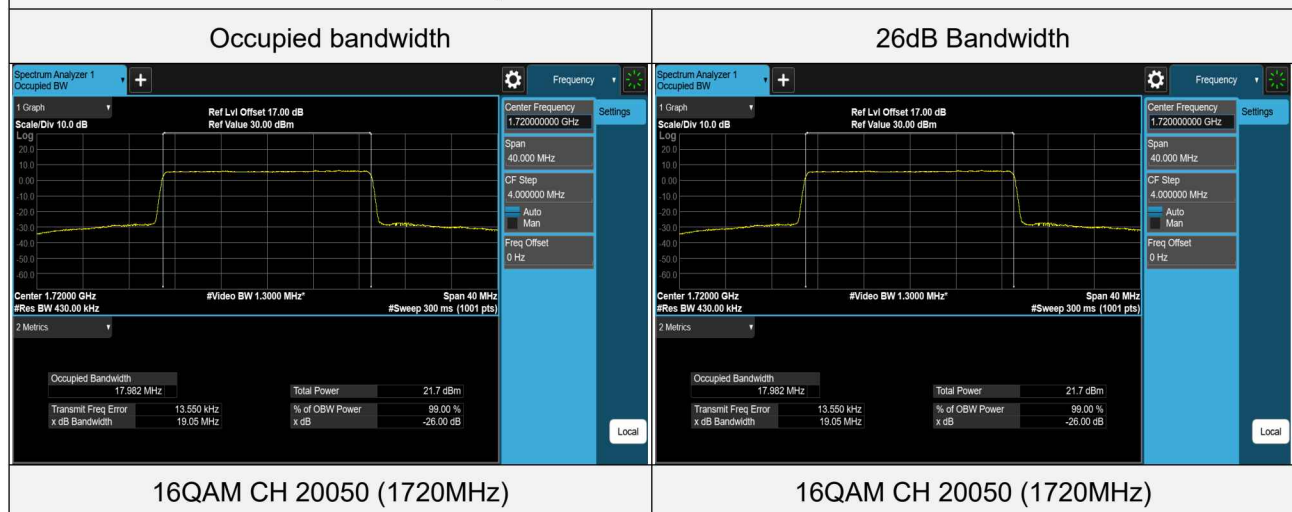
Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20025	1717.5	13.484	14.24
QPSK	20175	1732.5	13.471	14.23
QPSK	20325	1747.5	13.462	14.22
16QAM	20025	1717.5	13.467	14.25
16QAM	20175	1732.5	13.456	14.23
16QAM	20325	1747.5	13.452	14.22
64QAM	20025	1717.5	13.465	14.25
64QAM	20175	1732.5	13.457	14.22
64QAM	20325	1747.5	13.448	14.23



LTE Band 4 (Channel Bandwidth 20MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20050	1720	17.970	19.05
QPSK	20175	1732.5	17.948	19.02
QPSK	20300	1745	17.943	19.02
16QAM	20050	1720	17.982	19.05
16QAM	20175	1732.5	17.954	19.02
16QAM	20300	1745	17.951	19.03
64QAM	20050	1720	17.971	19.04
64QAM	20175	1732.5	17.950	19.02
64QAM	20300	1745	17.949	19.03

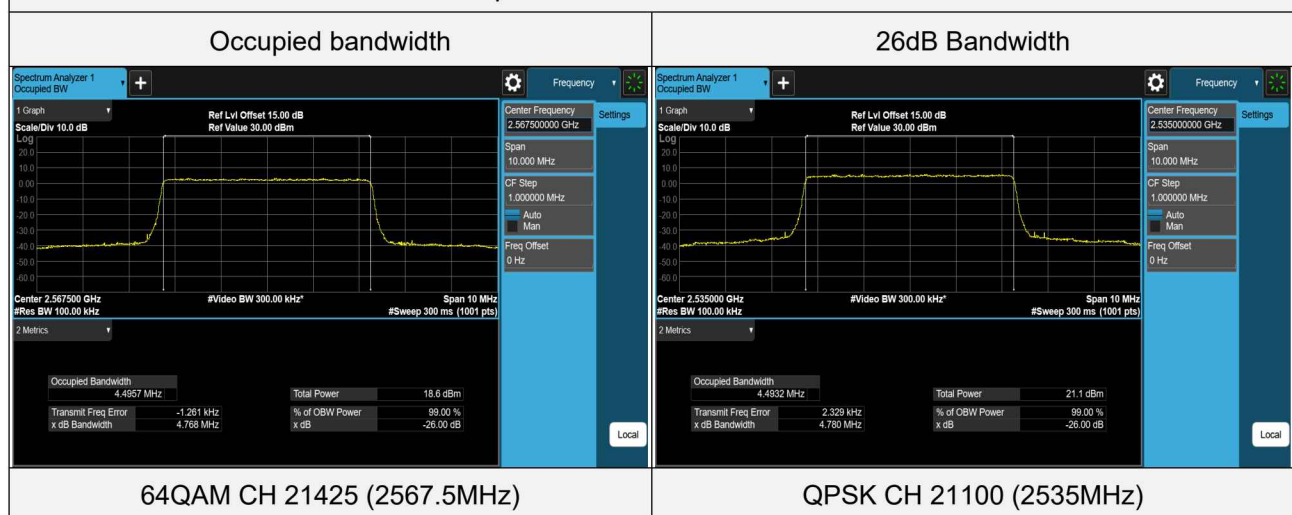
Spectrum Plot of Worst Value



LTE Band 7 (Channel Bandwidth 5MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20775	2502.5	4.4882	4.767
QPSK	21100	2535	4.4932	4.780
QPSK	21425	2567.5	4.4916	4.780
16QAM	20775	2502.5	4.4892	4.766
16QAM	21100	2535	4.4939	4.771
16QAM	21425	2567.5	4.4883	4.771
64QAM	20775	2502.5	4.4921	4.772
64QAM	21100	2535	4.4925	4.776
64QAM	21425	2567.5	4.4957	4.768

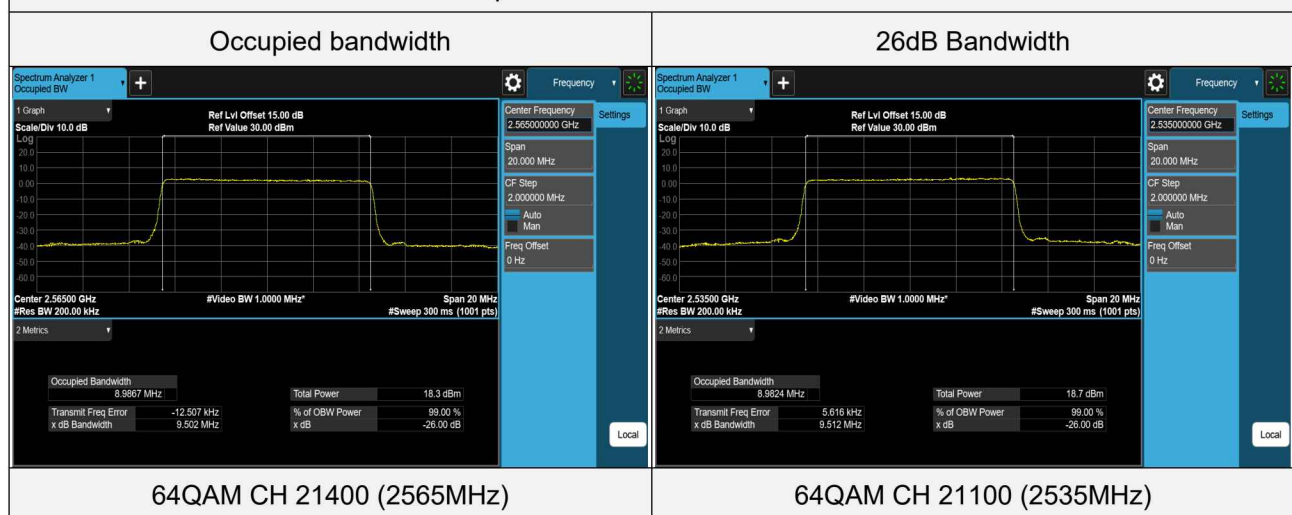
Spectrum Plot of Worst Value



LTE Band 7 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20800	2505	8.9718	9.488
QPSK	21100	2535	8.9834	9.498
QPSK	21400	2565	8.9813	9.492
16QAM	20800	2505	8.9678	9.482
16QAM	21100	2535	8.9783	9.492
16QAM	21400	2565	8.9840	9.488
64QAM	20800	2505	8.9694	9.498
64QAM	21100	2535	8.9824	9.512
64QAM	21400	2565	8.9867	9.502

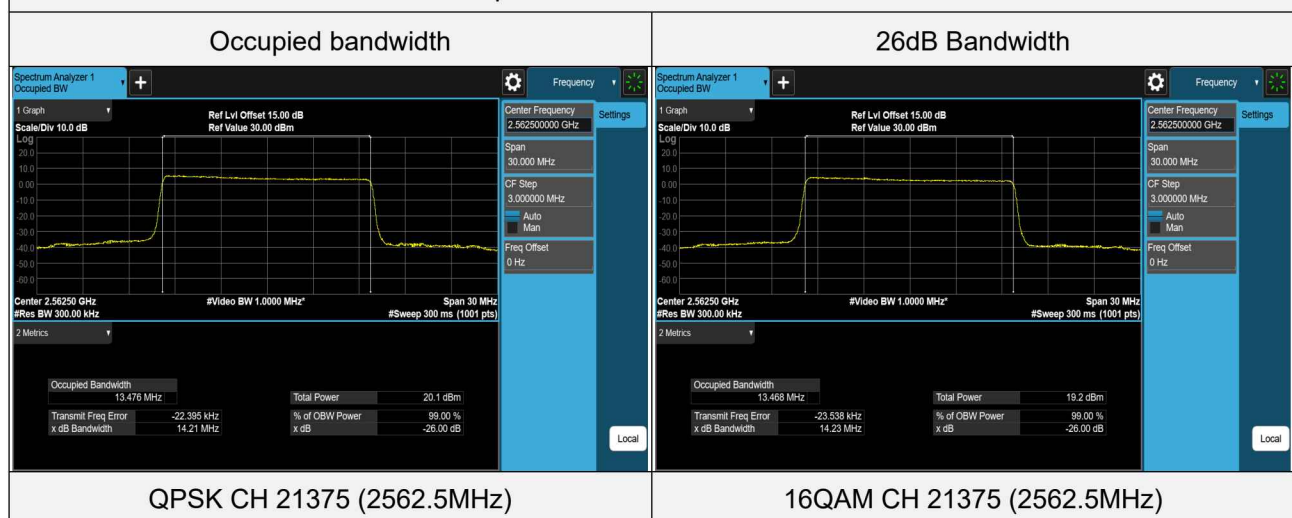
Spectrum Plot of Worst Value



LTE Band 7 (Channel Bandwidth 15MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20825	2507.5	13.431	14.21
QPSK	21100	2535	13.475	14.22
QPSK	21375	2562.5	13.476	14.21
16QAM	20825	2507.5	13.427	14.22
16QAM	21100	2535	13.469	14.22
16QAM	21375	2562.5	13.468	14.23
64QAM	20825	2507.5	13.425	14.21
64QAM	21100	2535	13.464	14.23
64QAM	21375	2562.5	13.462	14.21

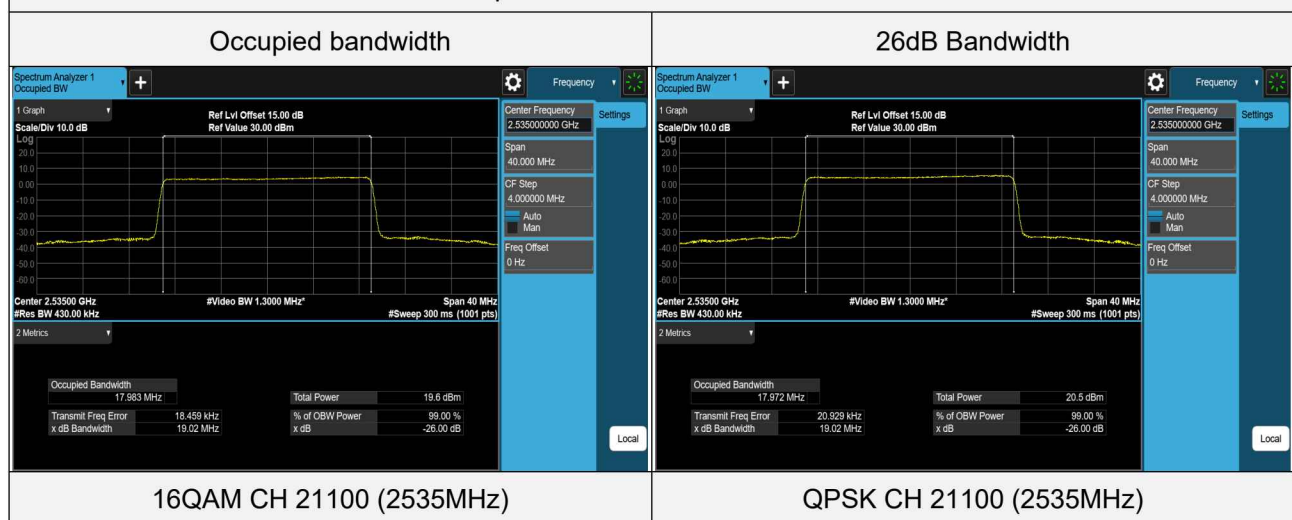
Spectrum Plot of Worst Value



LTE Band 7 (Channel Bandwidth 20MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	20850	2510	17.870	18.98
QPSK	21100	2535	17.972	19.02
QPSK	21350	2560	17.937	18.99
16QAM	20850	2510	17.896	18.99
16QAM	21100	2535	17.983	19.02
16QAM	21350	2560	17.942	18.99
64QAM	20850	2510	17.883	18.99
64QAM	21100	2535	17.979	19.02
64QAM	21350	2560	17.934	19.00

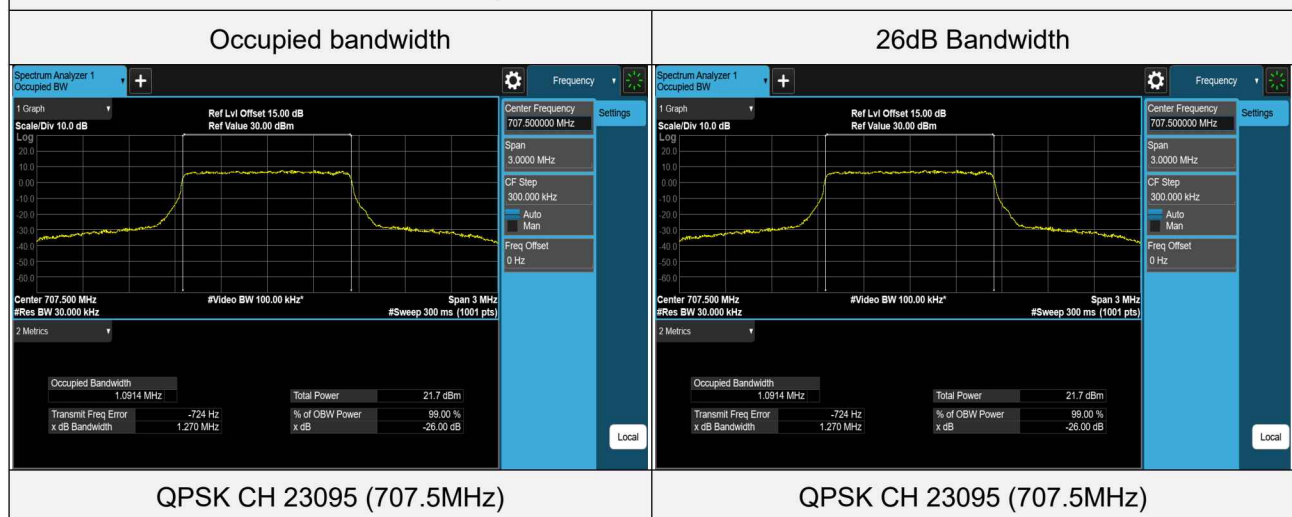
Spectrum Plot of Worst Value



LTE Band 12 (Channel Bandwidth 1.4MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23017	699.7	1.0872	1.252
QPSK	23095	707.5	1.0914	1.270
QPSK	23173	715.3	1.0905	1.263
16QAM	23017	699.7	1.0870	1.254
16QAM	23095	707.5	1.0869	1.261
16QAM	23173	715.3	1.0866	1.246
64QAM	23017	699.7	1.0886	1.248
64QAM	23095	707.5	1.0885	1.244
64QAM	23173	715.3	1.0882	1.250

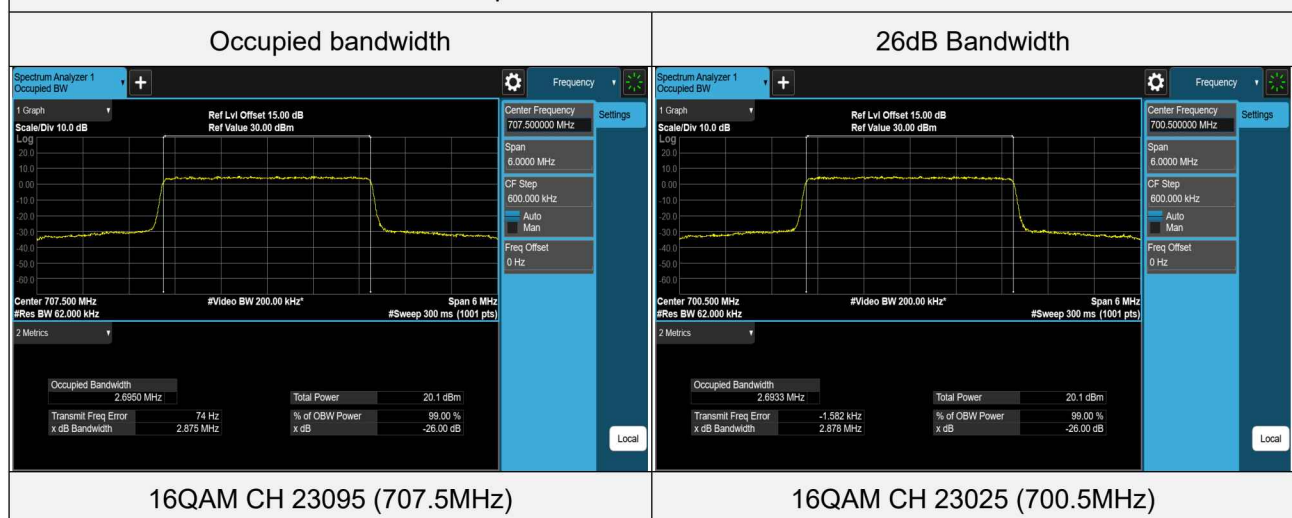
Spectrum Plot of Worst Value



LTE Band 12 (Channel Bandwidth 3MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23025	700.5	2.6916	2.875
QPSK	23095	707.5	2.6932	2.870
QPSK	23165	714.5	2.6932	2.870
16QAM	23025	700.5	2.6933	2.878
16QAM	23095	707.5	2.6950	2.875
16QAM	23165	714.5	2.6926	2.867
64QAM	23025	700.5	2.6925	2.861
64QAM	23095	707.5	2.6925	2.859
64QAM	23165	714.5	2.6915	2.860

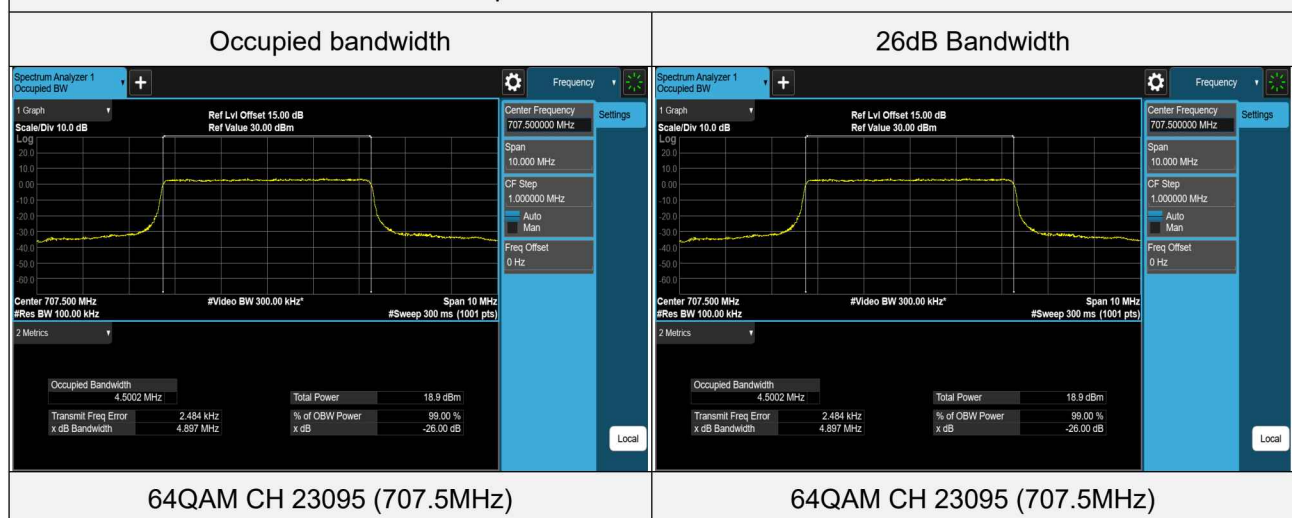
Spectrum Plot of Worst Value



LTE Band 12 (Channel Bandwidth 5MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23035	701.5	4.4971	4.896
QPSK	23095	707.5	4.4983	4.881
QPSK	23155	713.5	4.4959	4.884
16QAM	23035	701.5	4.4937	4.864
16QAM	23095	707.5	4.4952	4.865
16QAM	23155	713.5	4.4932	4.870
64QAM	23035	701.5	4.4950	4.892
64QAM	23095	707.5	4.5002	4.897
64QAM	23155	713.5	4.4954	4.881

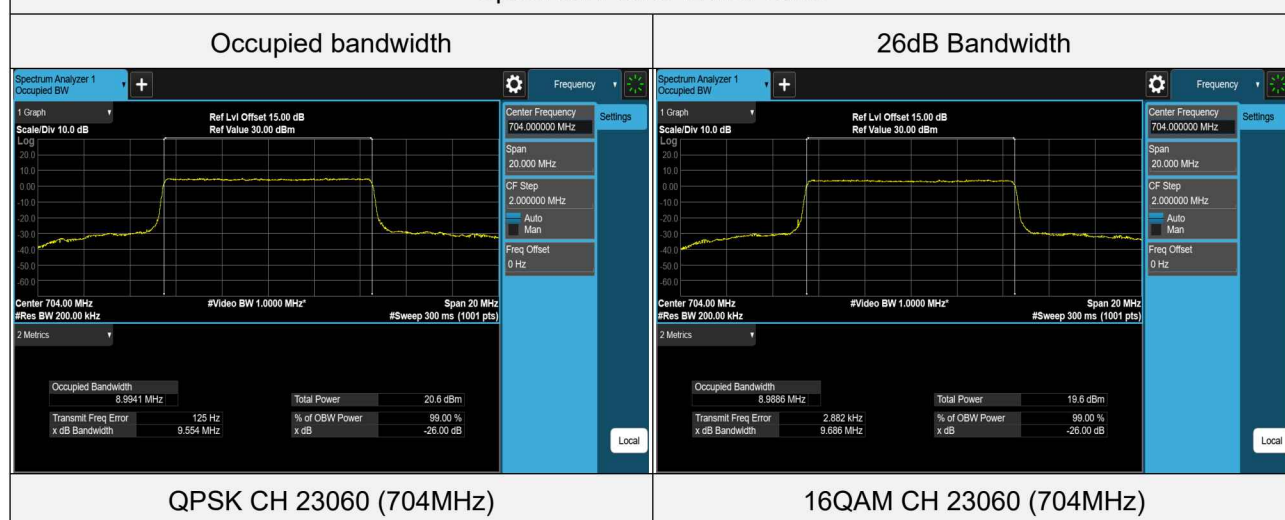
Spectrum Plot of Worst Value



LTE Band 12 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23060	704	8.9941	9.554
QPSK	23095	707.5	8.9925	9.542
QPSK	23130	711	8.9750	9.562
16QAM	23060	704	8.9886	9.686
16QAM	23095	707.5	8.9847	9.548
16QAM	23130	711	8.9720	9.547
64QAM	23060	704	8.9939	9.583
64QAM	23095	707.5	8.9904	9.601
64QAM	23130	711	8.9744	9.560

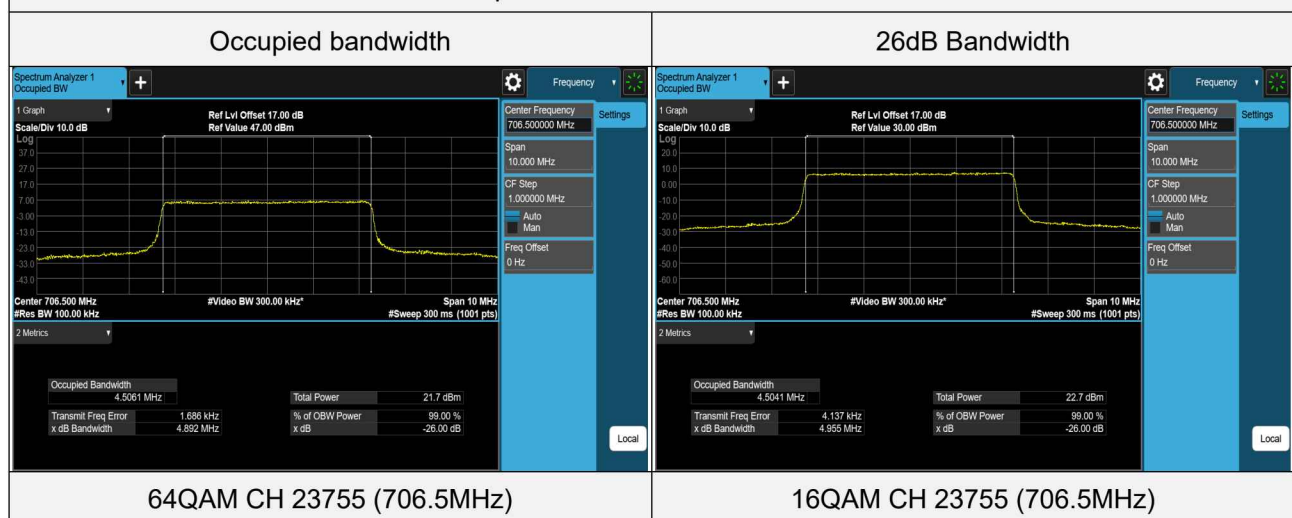
Spectrum Plot of Worst Value



LTE Band 17 (Channel Bandwidth 5MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23755	706.5	4.5007	4.920
QPSK	23790	710	4.4939	4.871
QPSK	23825	713.5	4.4929	4.852
16QAM	23755	706.5	4.5041	4.955
16QAM	23790	710	4.4907	4.836
16QAM	23825	713.5	4.4876	4.840
64QAM	23755	706.5	4.5061	4.892
64QAM	23790	710	4.4949	4.855
64QAM	23825	713.5	4.4880	4.840

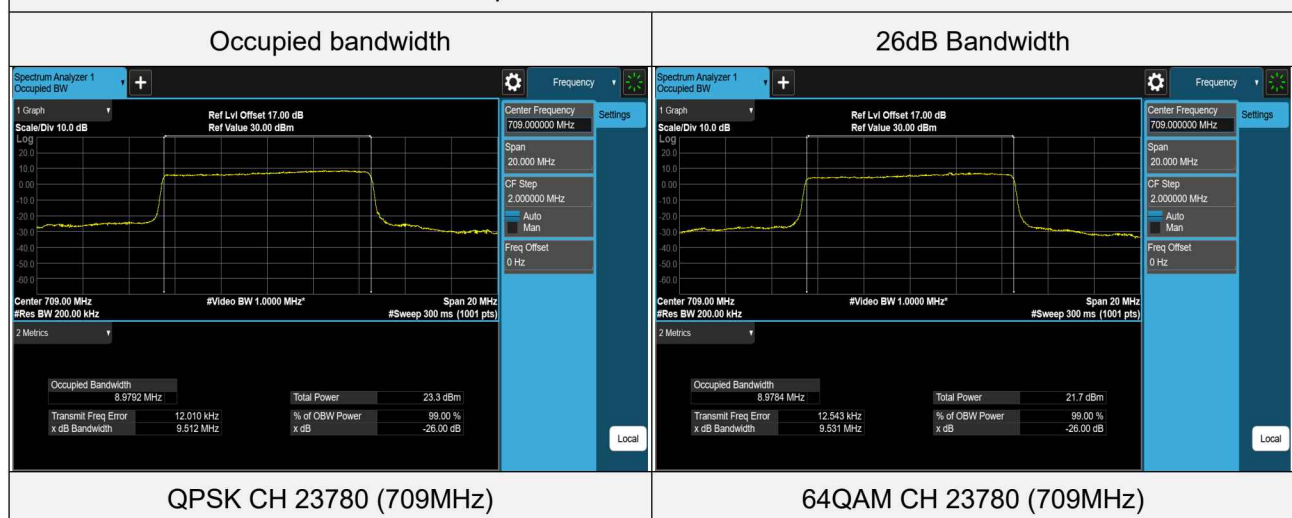
Spectrum Plot of Worst Value



LTE Band 17 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	23780	709	8.9792	9.512
QPSK	23790	710	8.9555	9.503
QPSK	23800	711	8.9422	9.505
16QAM	23780	709	8.9731	9.513
16QAM	23790	710	8.9570	9.522
16QAM	23800	711	8.9403	9.503
64QAM	23780	709	8.9784	9.531
64QAM	23790	710	8.9556	9.517
64QAM	23800	711	8.9422	9.499

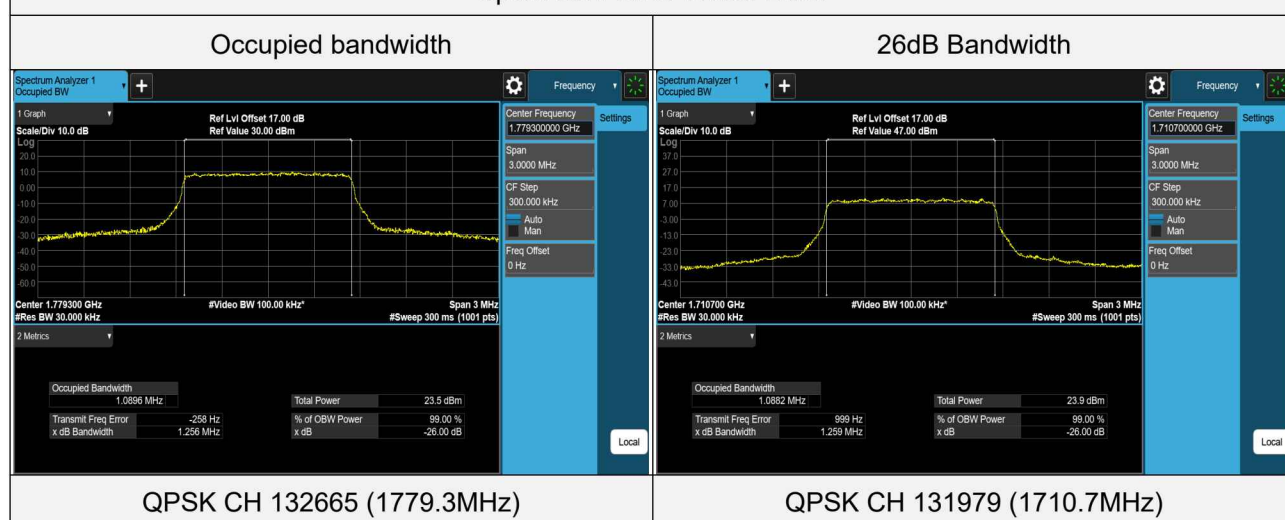
Spectrum Plot of Worst Value



LTE Band 66 (Channel Bandwidth 1.4MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	131979	1710.7	1.0882	1.259
QPSK	132322	1745	1.0891	1.258
QPSK	132665	1779.3	1.0896	1.256
16QAM	131979	1710.7	1.0879	1.258
16QAM	132322	1745	1.0868	1.242
16QAM	132665	1779.3	1.0886	1.254
64QAM	131979	1710.7	1.0870	1.257
64QAM	132322	1745	1.0882	1.254
64QAM	132665	1779.3	1.0875	1.254

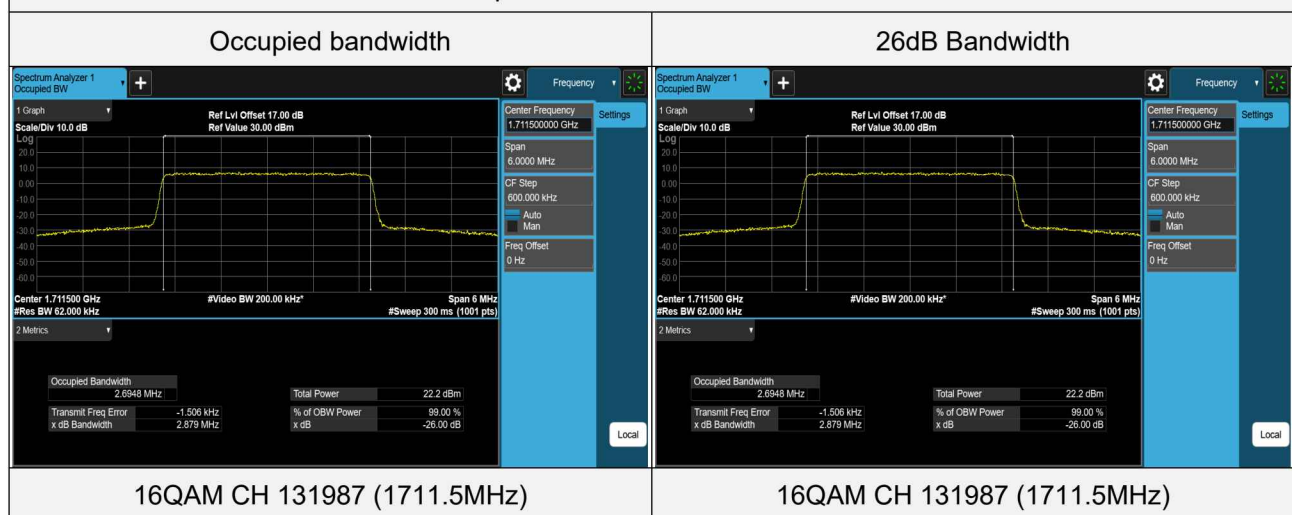
Spectrum Plot of Worst Value



LTE Band 66 (Channel Bandwidth 3MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	131987	1711.5	2.6931	2.867
QPSK	132322	1745	2.6911	2.868
QPSK	132657	1778.5	2.6929	2.872
16QAM	131987	1711.5	2.6948	2.879
16QAM	132322	1745	2.6914	2.876
16QAM	132657	1778.5	2.6926	2.876
64QAM	131987	1711.5	2.6933	2.867
64QAM	132322	1745	2.6922	2.862
64QAM	132657	1778.5	2.6912	2.857

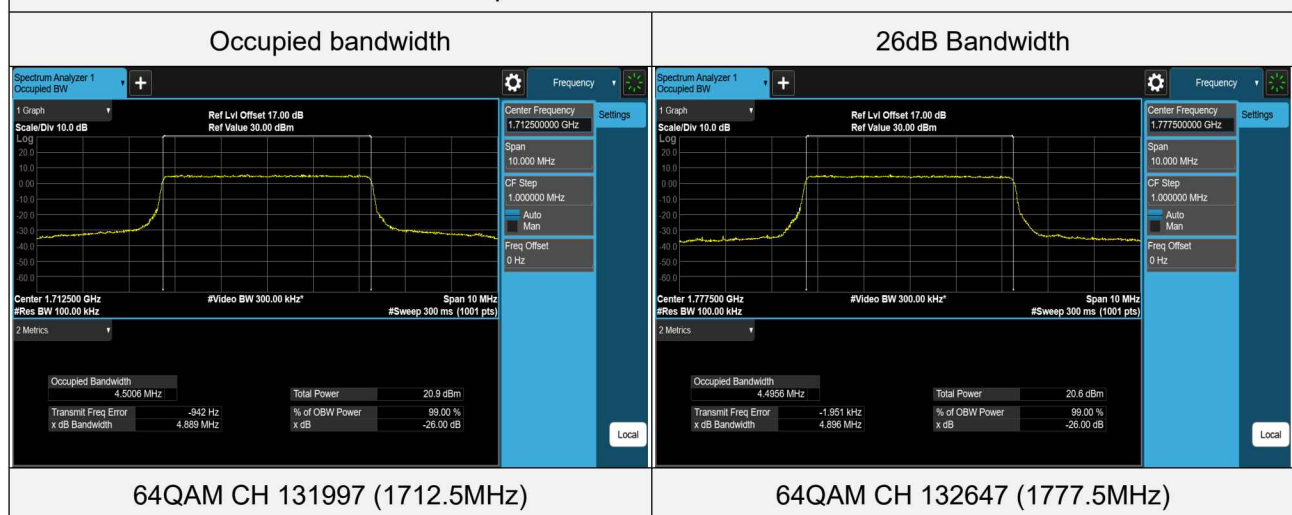
Spectrum Plot of Worst Value



LTE Band 66 (Channel Bandwidth 5MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	131997	1712.5	4.4980	4.894
QPSK	132322	1745	4.4965	4.867
QPSK	132647	1777.5	4.4996	4.881
16QAM	131997	1712.5	4.4972	4.870
16QAM	132322	1745	4.4904	4.870
16QAM	132647	1777.5	4.4947	4.892
64QAM	131997	1712.5	4.5006	4.889
64QAM	132322	1745	4.4976	4.879
64QAM	132647	1777.5	4.4956	4.896

Spectrum Plot of Worst Value



LTE Band 66 (Channel Bandwidth 10MHz)

Test Condition	Channel	Frequency (MHz)	Occupied bandwidth (MHz)	26dB Bandwidth (MHz)
QPSK	132022	1715	8.9854	9.558
QPSK	132322	1745	8.9811	9.558
QPSK	132622	1775	8.9813	9.551
16QAM	132022	1715	8.9866	9.535
16QAM	132322	1745	8.9745	9.533
16QAM	132622	1775	8.9766	9.542
64QAM	132022	1715	8.9846	9.579
64QAM	132322	1745	8.9826	9.572
64QAM	132622	1775	8.9794	9.559

Spectrum Plot of Worst Value

