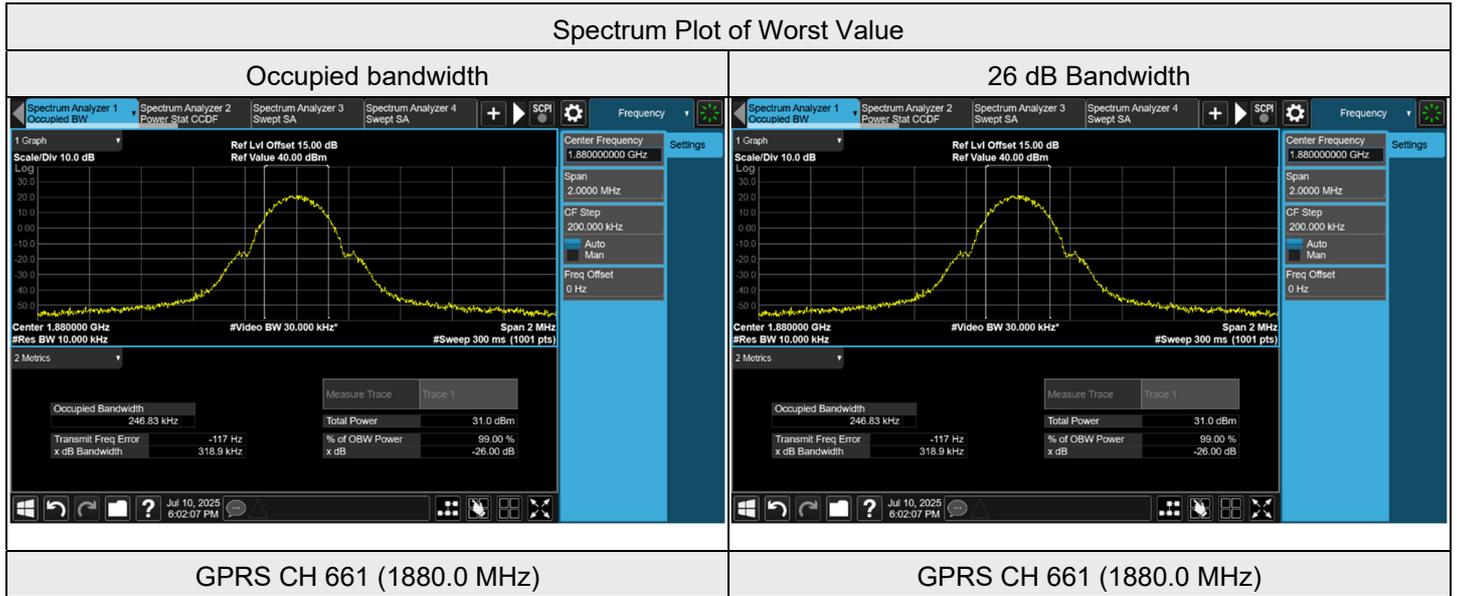


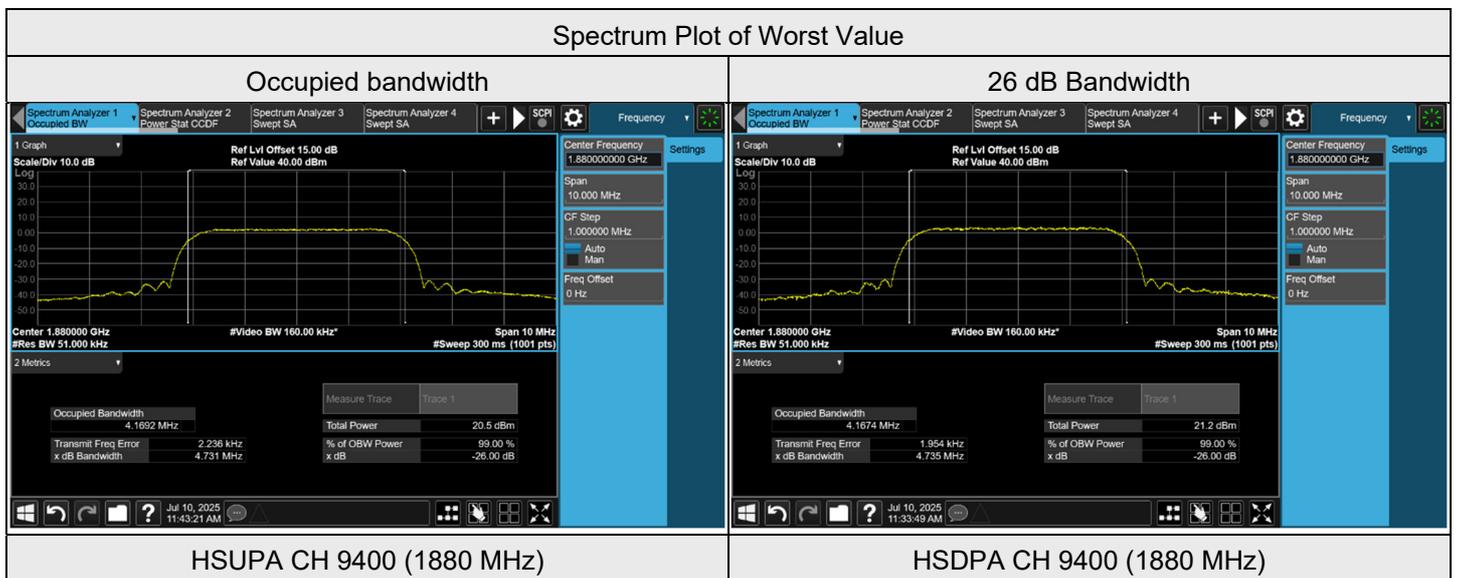
7.4.2 GSM 1900

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
GSM	512	1850.2	243.88	313.2
GSM	661	1880.0	244.25	312.1
GSM	810	1909.8	245.41	315.8
GPRS	512	1850.2	243.53	318.0
GPRS	661	1880.0	246.83	318.9
GPRS	810	1909.8	244.19	310.1



7.4.3 WCDMA Band II

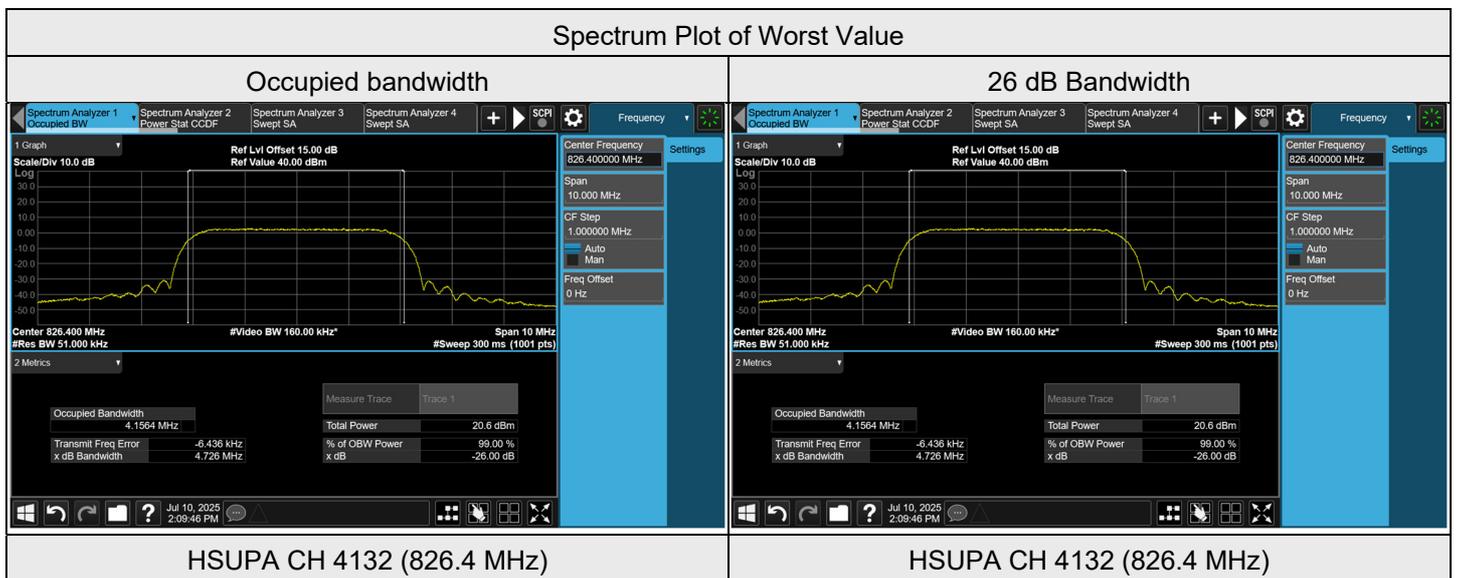
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA	9262	1852.4	4.1576	4.720
WCDMA	9400	1880	4.1643	4.724
WCDMA	9538	1907.6	4.1645	4.729
HSDPA	9262	1852.4	4.1612	4.729
HSDPA	9400	1880	4.1674	4.735
HSDPA	9538	1907.6	4.1663	4.727
HSUPA	9262	1852.4	4.1606	4.727
HSUPA	9400	1880	4.1692	4.731
HSUPA	9538	1907.6	4.1628	4.729





7.4.4 WCDMA Band V

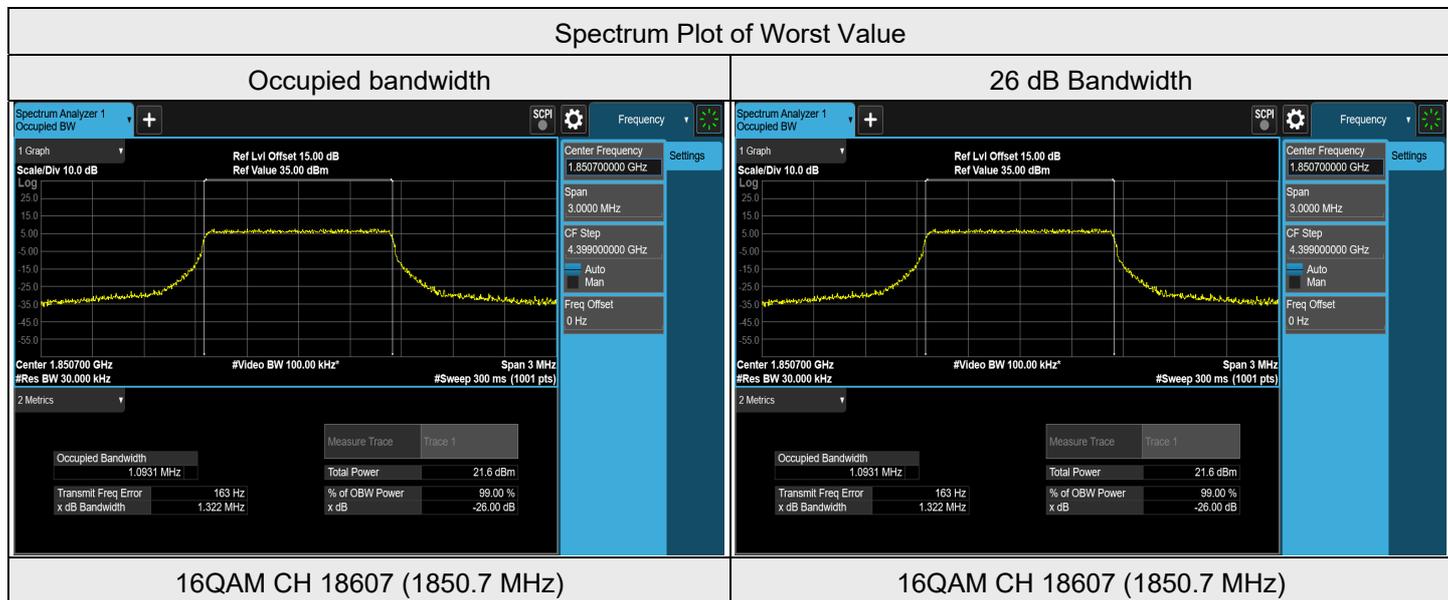
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
WCDMA	4132	826.4	4.1526	4.709
WCDMA	4182	836.4	4.1351	4.704
WCDMA	4223	846.6	4.1368	4.701
HSDPA	4132	826.4	4.1536	4.719
HSDPA	4182	836.4	4.1345	4.712
HSDPA	4223	846.6	4.1388	4.709
HSUPA	4132	826.4	4.1564	4.726
HSUPA	4182	836.4	4.1347	4.713
HSUPA	4223	846.6	4.1363	4.711



7.4.5 LTE Band 2

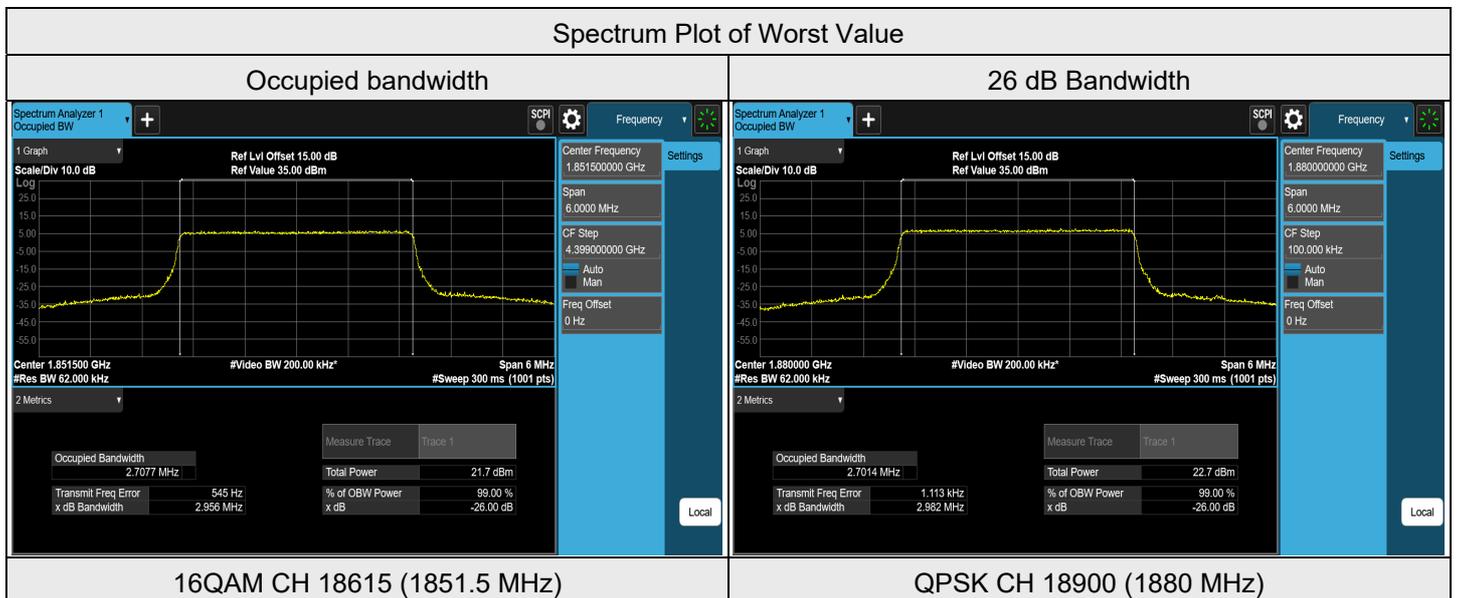
LTE Band 2, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18607	1850.7	1.0915	1.304
QPSK	18900	1880	1.0903	1.297
QPSK	19193	1909.3	1.0891	1.287
16QAM	18607	1850.7	1.0931	1.322
16QAM	18900	1880	1.0921	1.315
16QAM	19193	1909.3	1.0914	1.307
64QAM	18607	1850.7	1.0914	1.310
64QAM	18900	1880	1.0917	1.292
64QAM	19193	1909.3	1.0896	1.290



LTE Band 2, Channel Bandwidth: 3 MHz

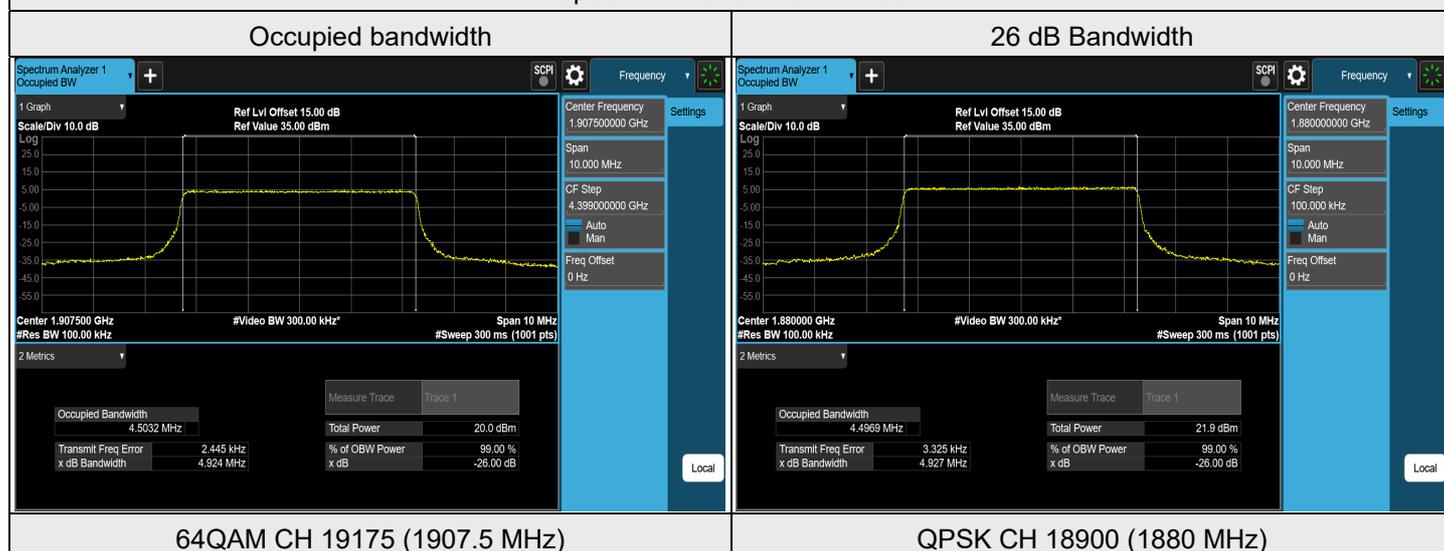
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18615	1851.5	2.7031	2.937
QPSK	18900	1880	2.7014	2.982
QPSK	19185	1908.5	2.7024	2.945
16QAM	18615	1851.5	2.7077	2.956
16QAM	18900	1880	2.7036	2.955
16QAM	19185	1908.5	2.7020	2.952
64QAM	18615	1851.5	2.7036	2.969
64QAM	18900	1880	2.7009	2.963
64QAM	19185	1908.5	2.7021	2.957



LTE Band 2, Channel Bandwidth: 5 MHz

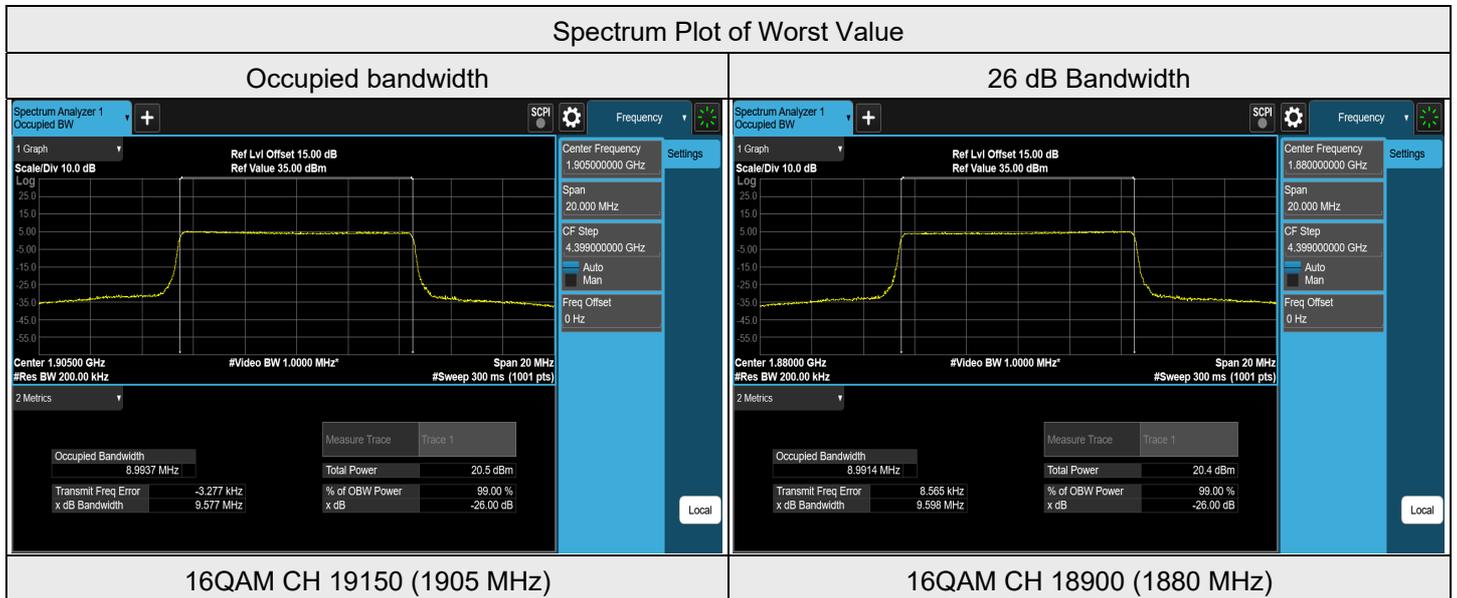
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18625	1852.5	4.5019	4.922
QPSK	18900	1880	4.4969	4.927
QPSK	19175	1907.5	4.4997	4.905
16QAM	18625	1852.5	4.4985	4.886
16QAM	18900	1880	4.4971	4.882
16QAM	19175	1907.5	4.5020	4.923
64QAM	18625	1852.5	4.4938	4.894
64QAM	18900	1880	4.5001	4.906
64QAM	19175	1907.5	4.5032	4.924

Spectrum Plot of Worst Value



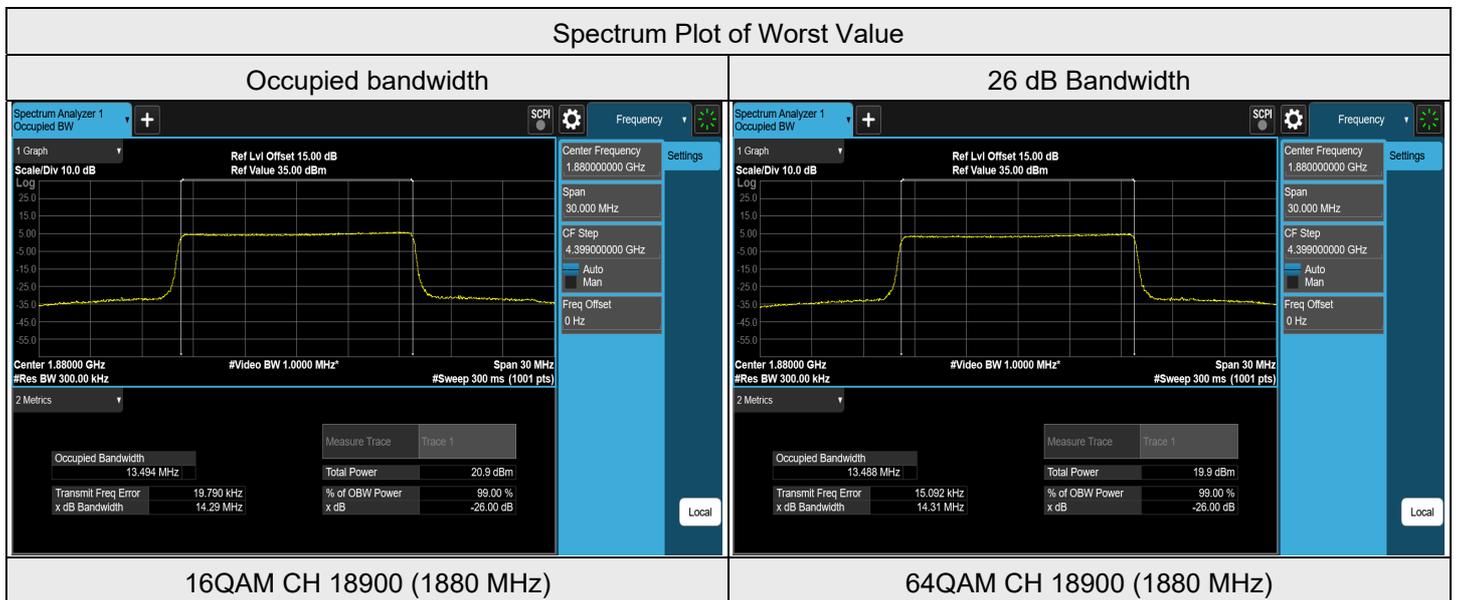
LTE Band 2, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18650	1855	8.9823	9.556
QPSK	18900	1880	8.9832	9.594
QPSK	19150	1905	8.9898	9.568
16QAM	18650	1855	8.9818	9.584
16QAM	18900	1880	8.9914	9.598
16QAM	19150	1905	8.9937	9.577
64QAM	18650	1855	8.9751	9.572
64QAM	18900	1880	8.9903	9.557
64QAM	19150	1905	8.9907	9.549



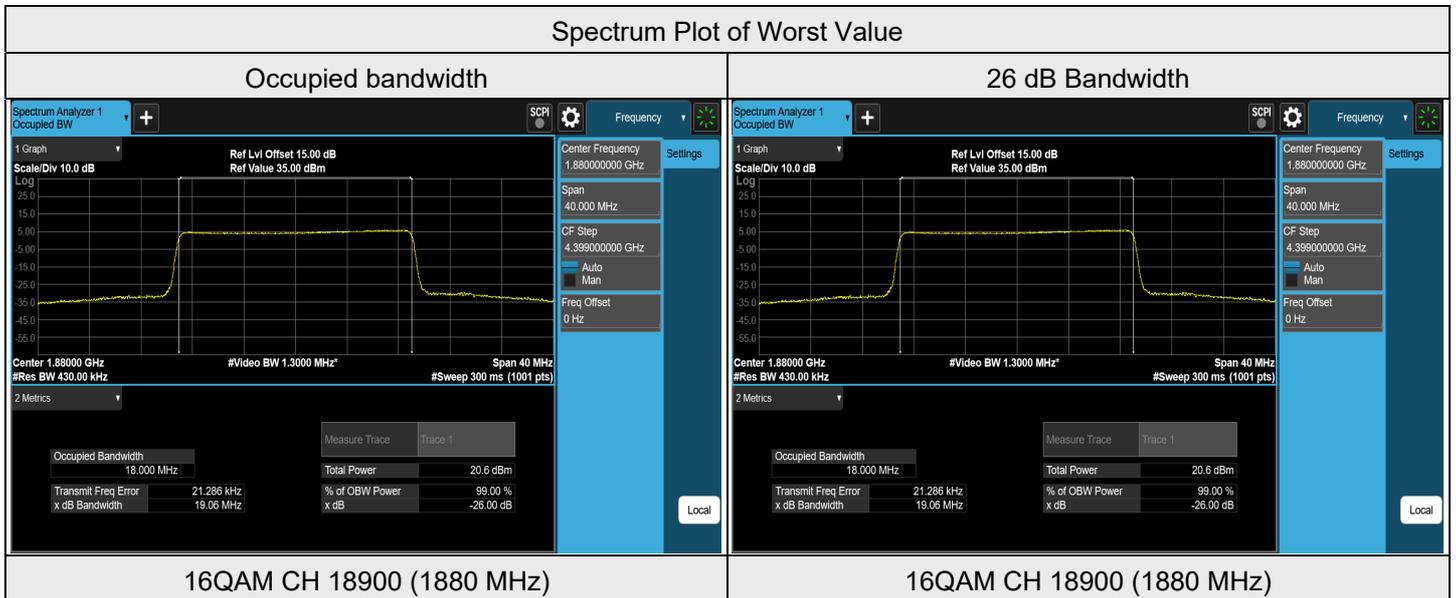
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.4535	14.268
QPSK	18900	1880	13.4888	14.266
QPSK	19125	1902.5	13.4757	14.263
16QAM	18675	1857.5	13.4452	14.255
16QAM	18900	1880	13.4940	14.285
16QAM	19125	1902.5	13.4686	14.264
64QAM	18675	1857.5	13.4468	14.263
64QAM	18900	1880	13.4876	14.313
64QAM	19125	1902.5	13.4702	14.264



LTE Band 2, Channel Bandwidth: 20 MHz

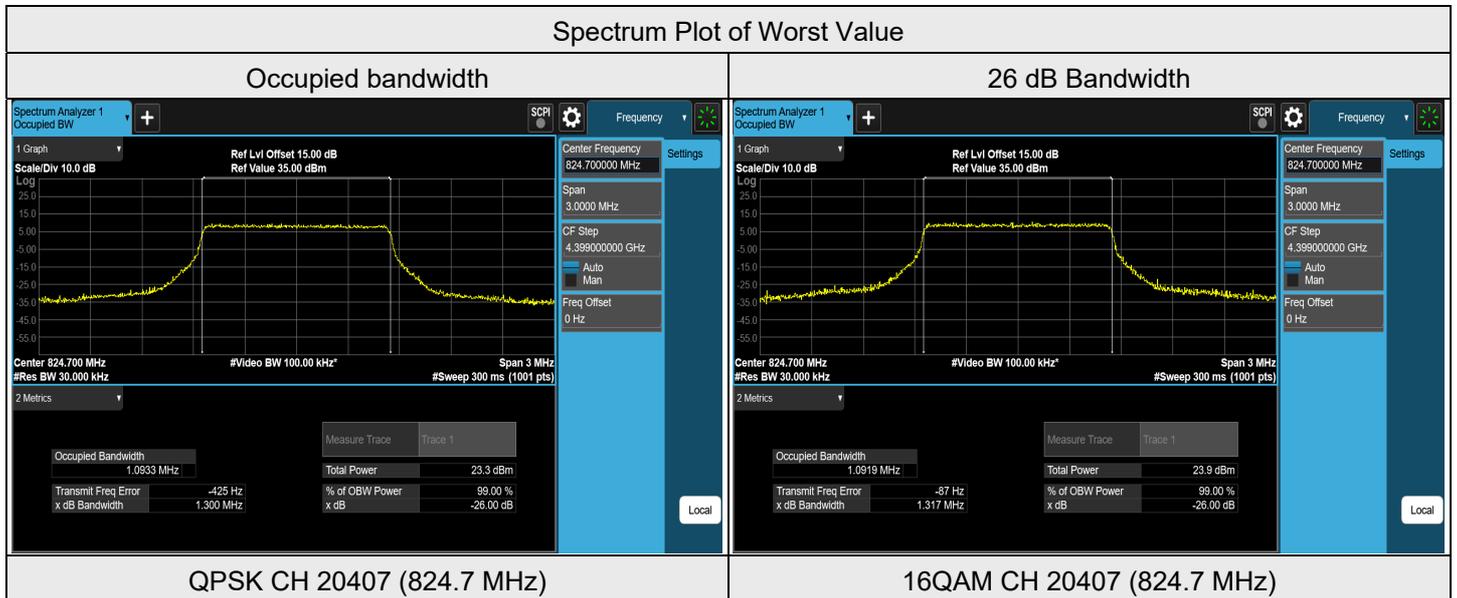
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.9259	19.034
QPSK	18900	1880	17.9947	19.026
QPSK	19100	1900	17.9433	19.022
16QAM	18700	1860	17.9254	19.049
16QAM	18900	1880	18.0002	19.058
16QAM	19100	1900	17.9478	19.021
64QAM	18700	1860	17.9221	19.027
64QAM	18900	1880	17.9949	19.050
64QAM	19100	1900	17.9478	19.023



7.4.6 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

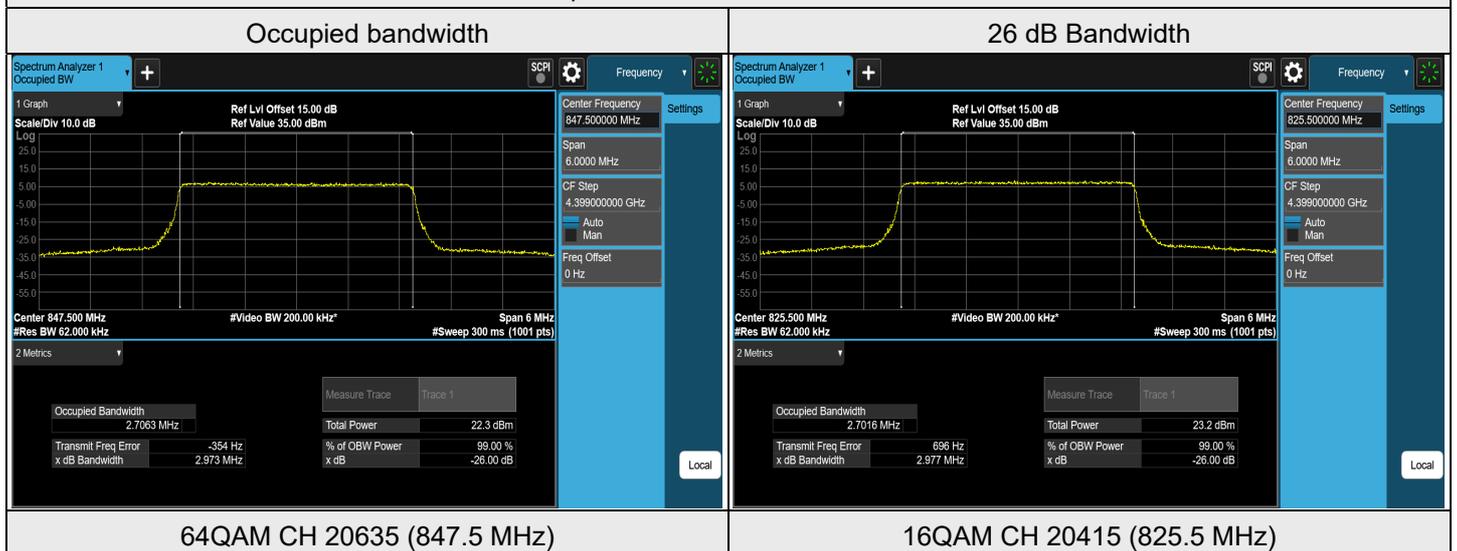
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0933	1.300
QPSK	20525	836.5	1.0897	1.306
QPSK	20643	848.3	1.0924	1.292
16QAM	20407	824.7	1.0919	1.317
16QAM	20525	836.5	1.0924	1.311
16QAM	20643	848.3	1.0928	1.287
64QAM	20407	824.7	1.0930	1.303
64QAM	20525	836.5	1.0930	1.314
64QAM	20643	848.3	1.0901	1.295



LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.7011	2.958
QPSK	20525	836.5	2.7036	2.950
QPSK	20635	847.5	2.7049	2.968
16QAM	20415	825.5	2.7016	2.977
16QAM	20525	836.5	2.7022	2.968
16QAM	20635	847.5	2.7019	2.957
64QAM	20415	825.5	2.7040	2.971
64QAM	20525	836.5	2.7007	2.935
64QAM	20635	847.5	2.7063	2.973

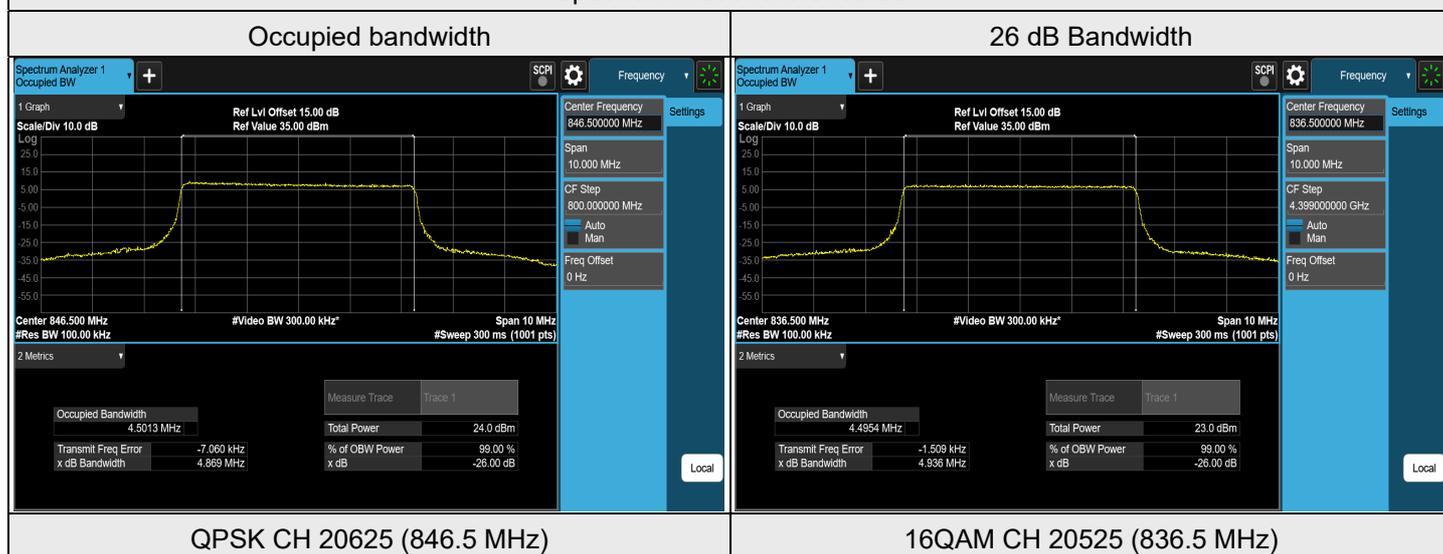
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4966	4.895
QPSK	20525	836.5	4.4962	4.852
QPSK	20625	846.5	4.5013	4.869
16QAM	20425	826.5	4.5005	4.887
16QAM	20525	836.5	4.4954	4.936
16QAM	20625	846.5	4.4981	4.882
64QAM	20425	826.5	4.4996	4.912
64QAM	20525	836.5	4.4946	4.861
64QAM	20625	846.5	4.5010	4.896

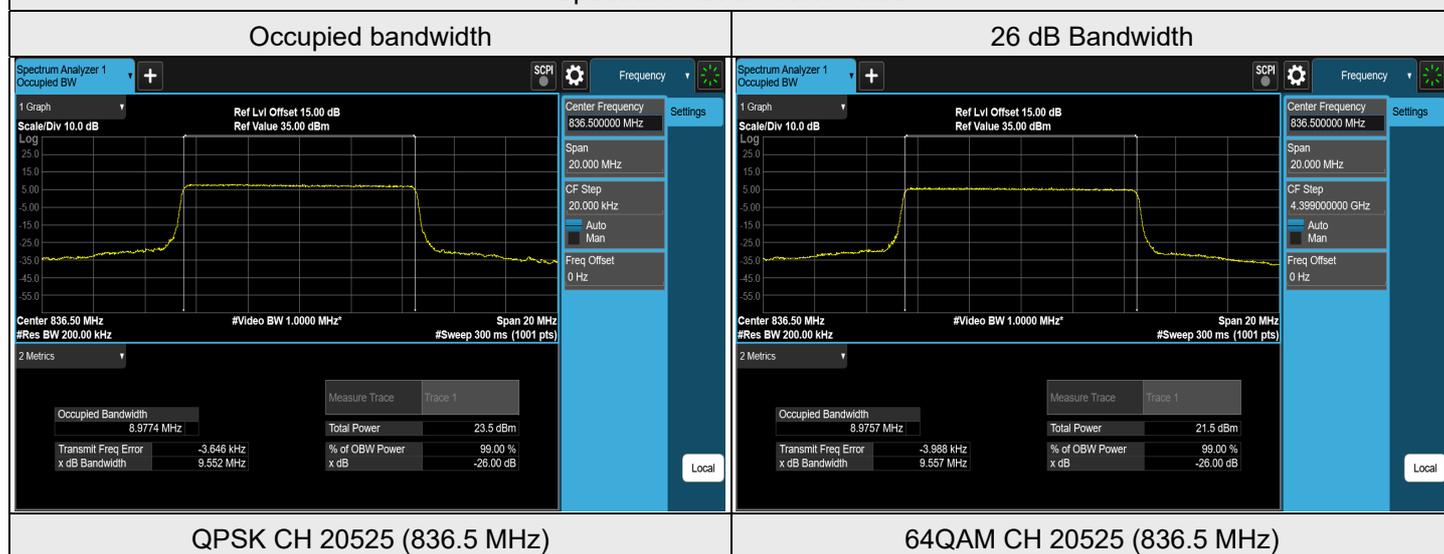
Spectrum Plot of Worst Value



LTE Band 5, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9629	9.543
QPSK	20525	836.5	8.9774	9.552
QPSK	20600	844	8.9497	9.512
16QAM	20450	829	8.9666	9.547
16QAM	20525	836.5	8.9756	9.538
16QAM	20600	844	8.9477	9.522
64QAM	20450	829	8.9667	9.549
64QAM	20525	836.5	8.9757	9.557
64QAM	20600	844	8.9529	9.548

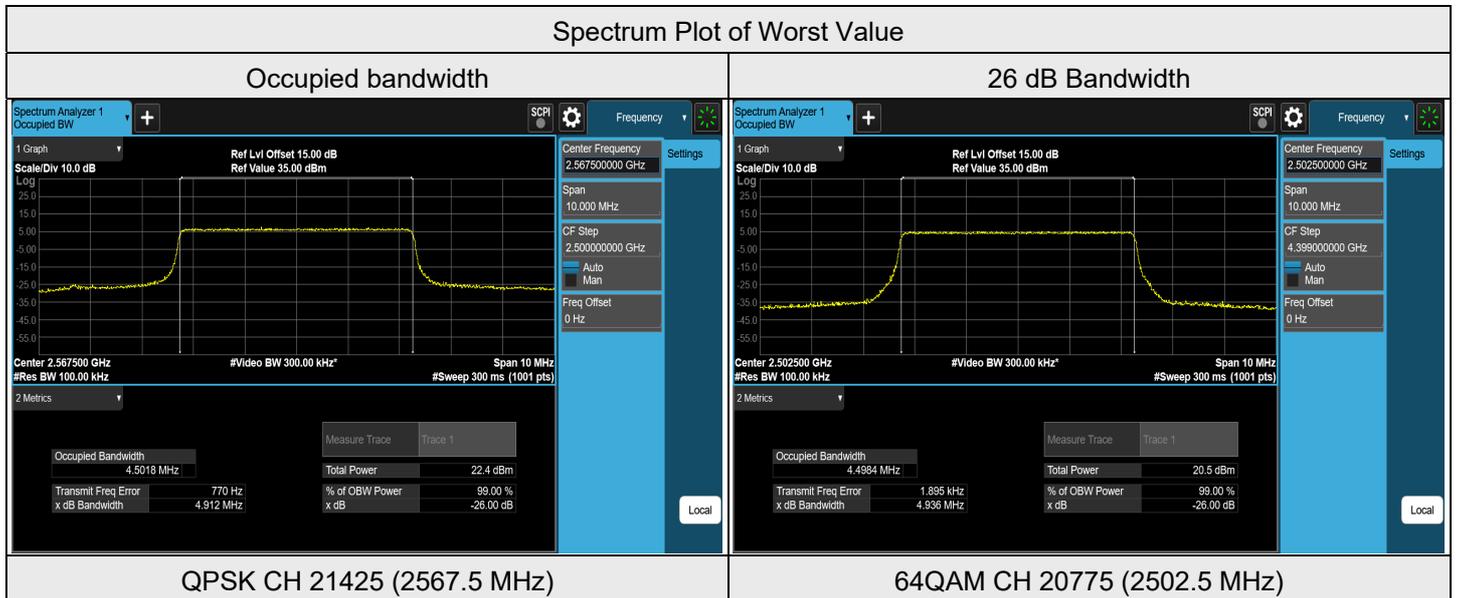
Spectrum Plot of Worst Value



7.4.7 LTE Band 7

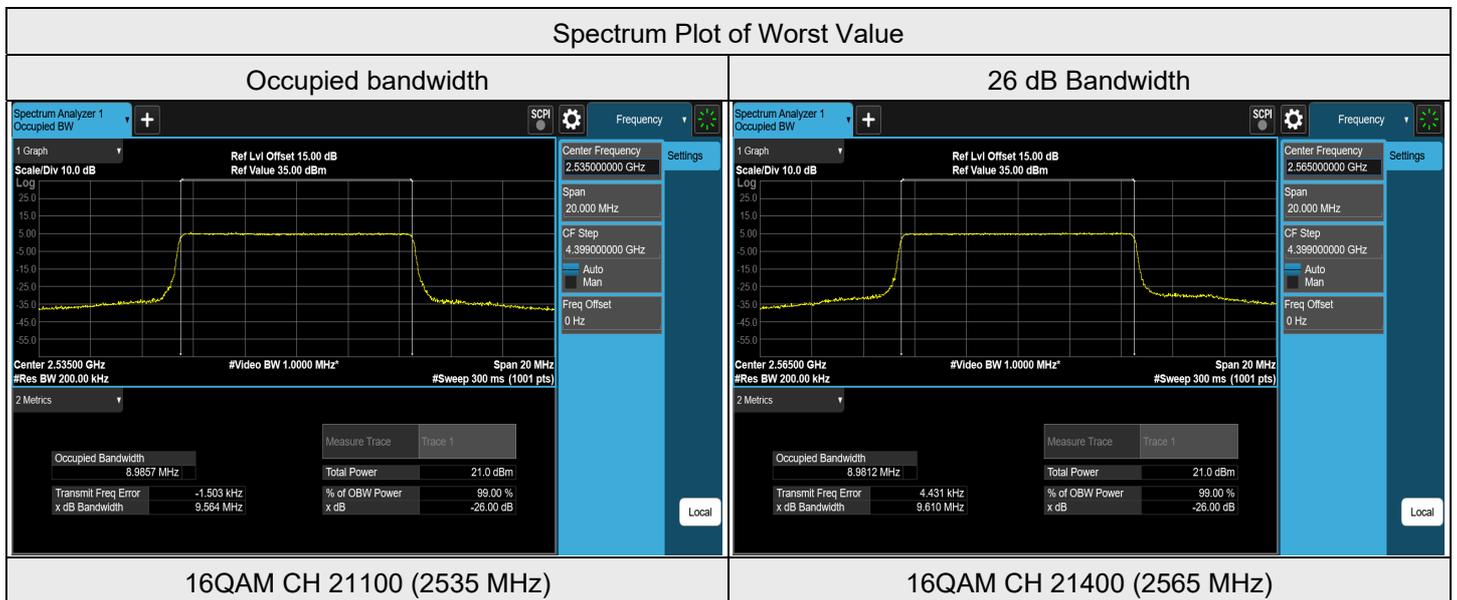
LTE Band 7, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20775	2502.5	4.4953	4.909
QPSK	21100	2535	4.5008	4.894
QPSK	21425	2567.5	4.5018	4.912
16QAM	20775	2502.5	4.4960	4.906
16QAM	21100	2535	4.4940	4.865
16QAM	21425	2567.5	4.5014	4.877
64QAM	20775	2502.5	4.4984	4.936
64QAM	21100	2535	4.5014	4.914
64QAM	21425	2567.5	4.4958	4.895



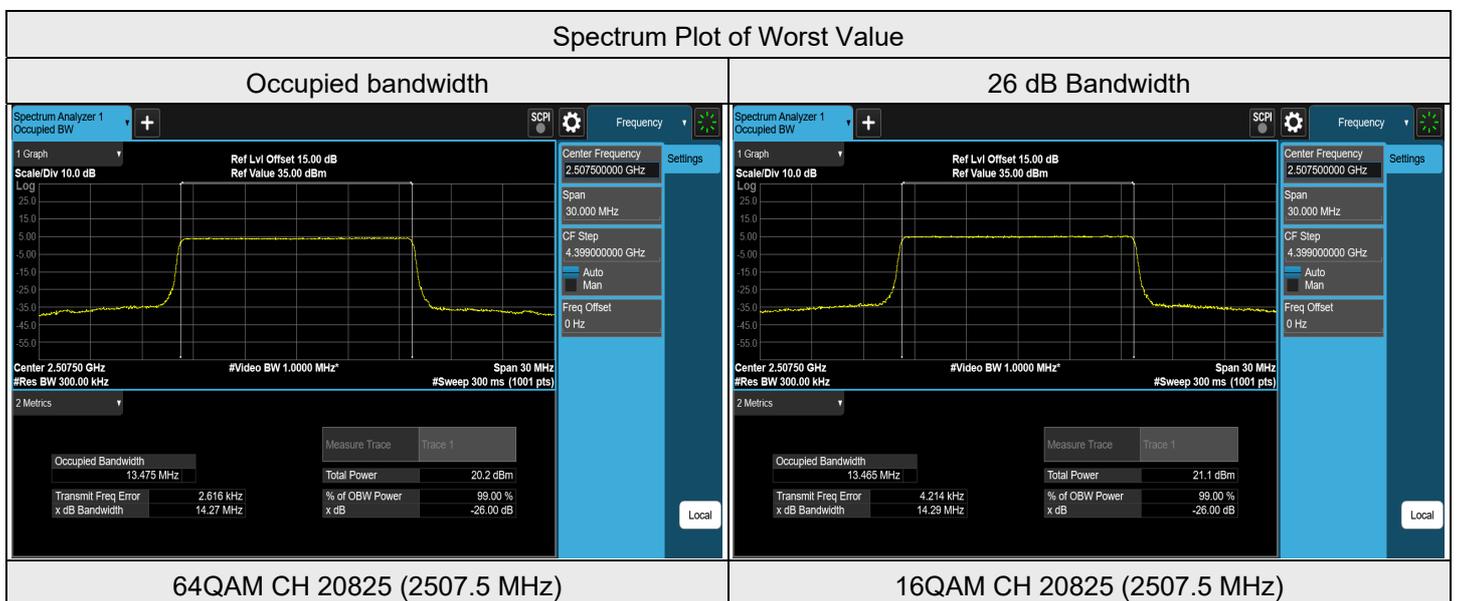
LTE Band 7, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20800	2505	8.9838	9.600
QPSK	21100	2535	8.9841	9.554
QPSK	21400	2565	8.9850	9.608
16QAM	20800	2505	8.9801	9.584
16QAM	21100	2535	8.9857	9.564
16QAM	21400	2565	8.9812	9.610
64QAM	20800	2505	8.9815	9.553
64QAM	21100	2535	8.9857	9.586
64QAM	21400	2565	8.9759	9.544



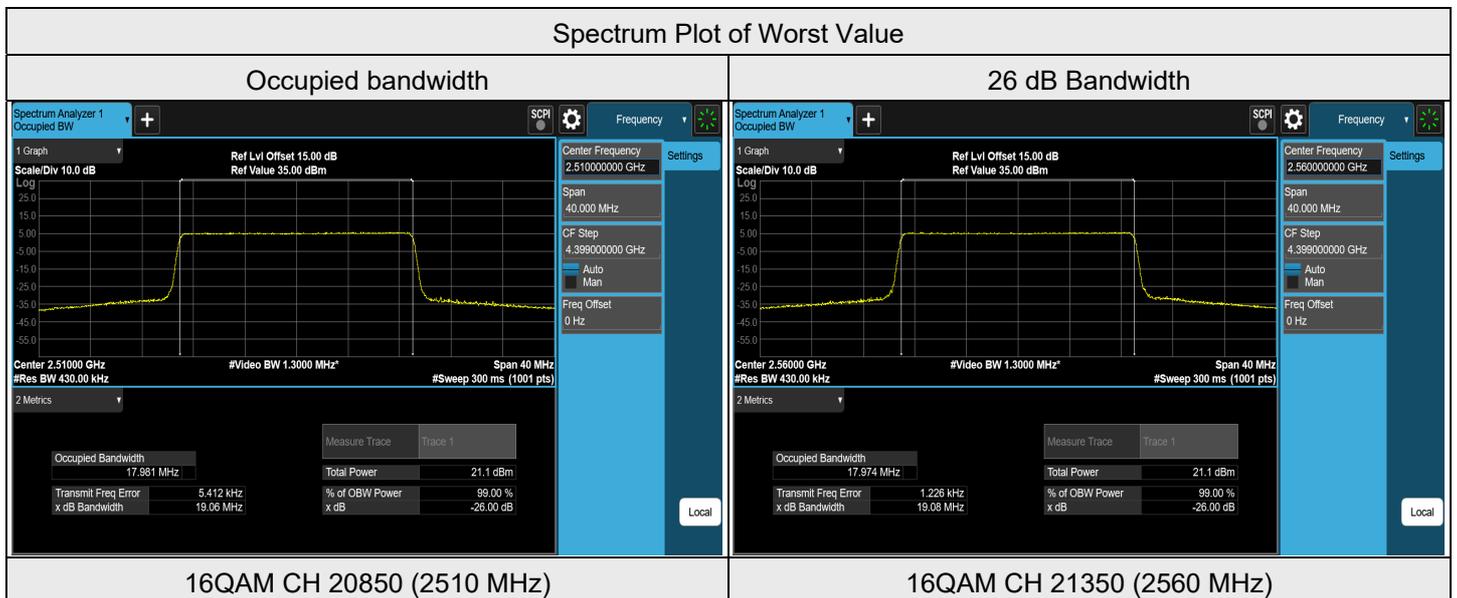
LTE Band 7, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20825	2507.5	13.4594	14.260
QPSK	21100	2535	13.4644	14.266
QPSK	21375	2562.5	13.4710	14.272
16QAM	20825	2507.5	13.4646	14.293
16QAM	21100	2535	13.4618	14.263
16QAM	21375	2562.5	13.4667	14.287
64QAM	20825	2507.5	13.4748	14.274
64QAM	21100	2535	13.4629	14.268
64QAM	21375	2562.5	13.4620	14.260



LTE Band 7, Channel Bandwidth: 20 MHz

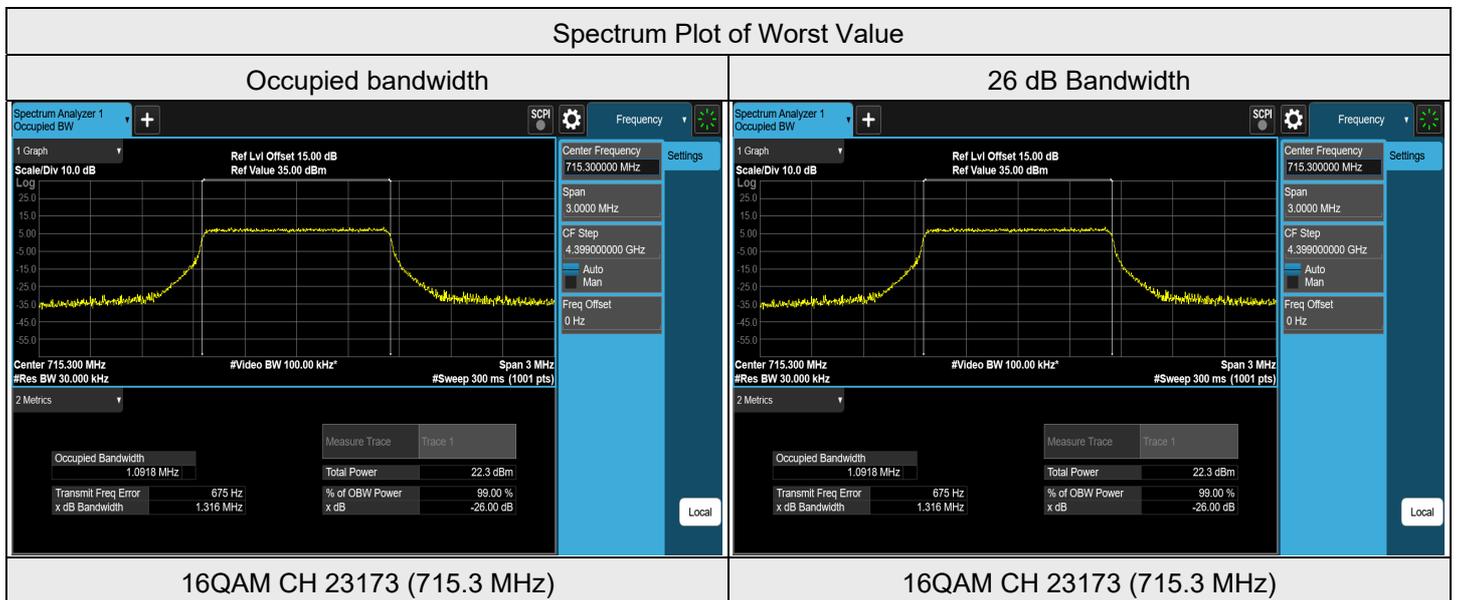
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20850	2510	17.9654	19.071
QPSK	21100	2535	17.9538	19.046
QPSK	21350	2560	17.9733	19.039
16QAM	20850	2510	17.9812	19.061
16QAM	21100	2535	17.9647	19.064
16QAM	21350	2560	17.9739	19.082
64QAM	20850	2510	17.9703	19.053
64QAM	21100	2535	17.9620	19.078
64QAM	21350	2560	17.9710	19.066



7.4.8 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

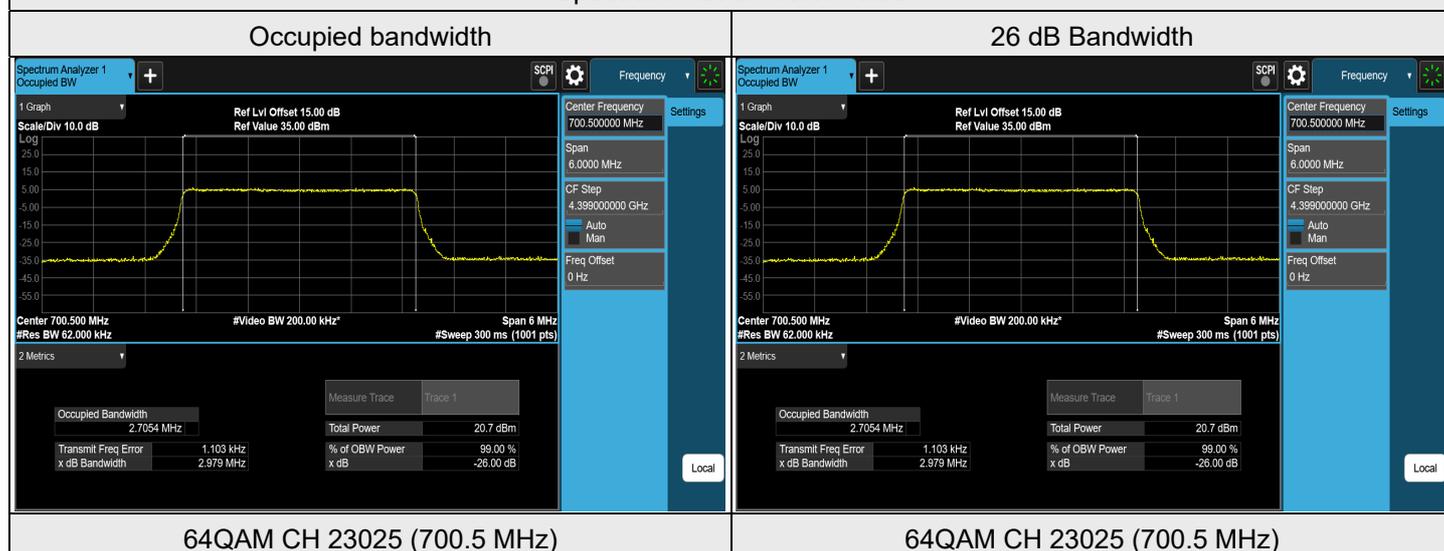
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0903	1.298
QPSK	23095	707.5	1.0895	1.275
QPSK	23173	715.3	1.0899	1.309
16QAM	23017	699.7	1.0915	1.296
16QAM	23095	707.5	1.0910	1.309
16QAM	23173	715.3	1.0918	1.316
64QAM	23017	699.7	1.0909	1.296
64QAM	23095	707.5	1.0892	1.315
64QAM	23173	715.3	1.0901	1.299



LTE Band 12, Channel Bandwidth: 3 MHz

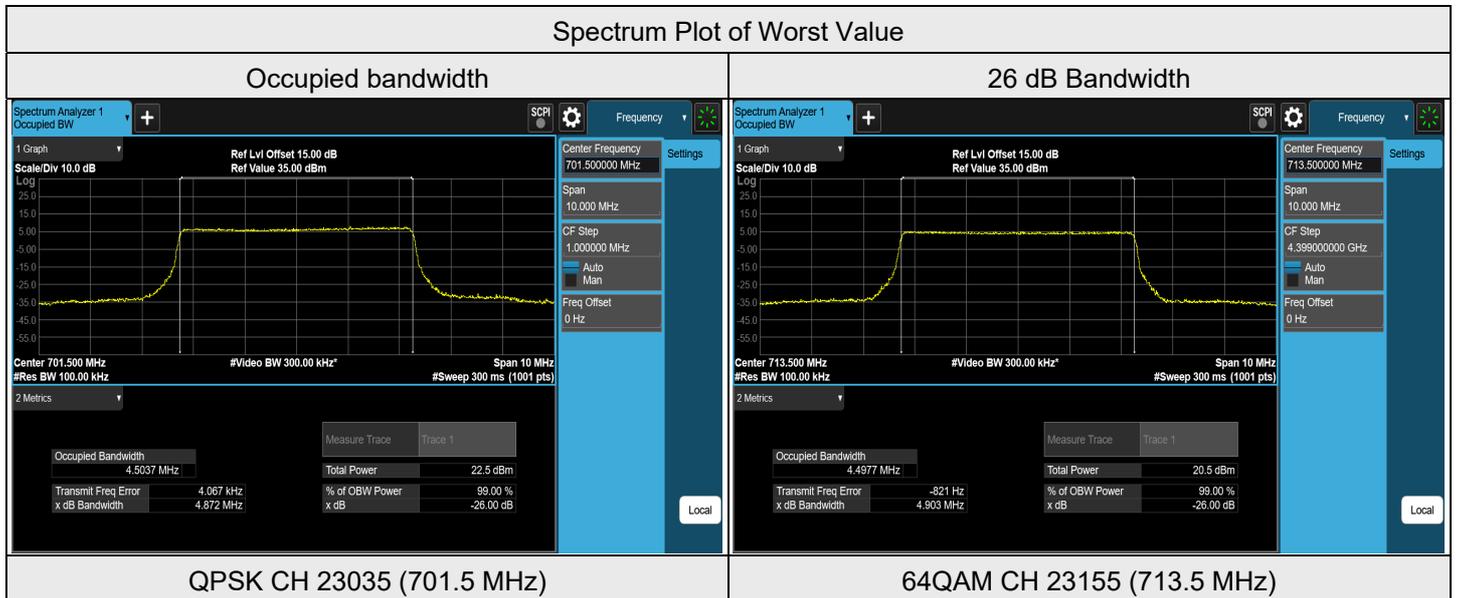
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23025	700.5	2.7049	2.952
QPSK	23095	707.5	2.6942	2.931
QPSK	23165	714.5	2.7019	2.954
16QAM	23025	700.5	2.7030	2.957
16QAM	23095	707.5	2.6970	2.950
16QAM	23165	714.5	2.7018	2.962
64QAM	23025	700.5	2.7054	2.979
64QAM	23095	707.5	2.7006	2.952
64QAM	23165	714.5	2.7030	2.973

Spectrum Plot of Worst Value



LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23035	701.5	4.5037	4.872
QPSK	23095	707.5	4.4817	4.825
QPSK	23155	713.5	4.5035	4.856
16QAM	23035	701.5	4.5009	4.886
16QAM	23095	707.5	4.4801	4.827
16QAM	23155	713.5	4.5001	4.898
64QAM	23035	701.5	4.5029	4.902
64QAM	23095	707.5	4.4820	4.872
64QAM	23155	713.5	4.4977	4.903



LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23060	704	8.9673	9.510
QPSK	23095	707.5	8.9167	9.474
QPSK	23130	711	8.9668	9.509
16QAM	23060	704	8.9651	9.498
16QAM	23095	707.5	8.9187	9.490
16QAM	23130	711	8.9679	9.497
64QAM	23060	704	8.9691	9.493
64QAM	23095	707.5	8.9156	9.489
64QAM	23130	711	8.9628	9.513

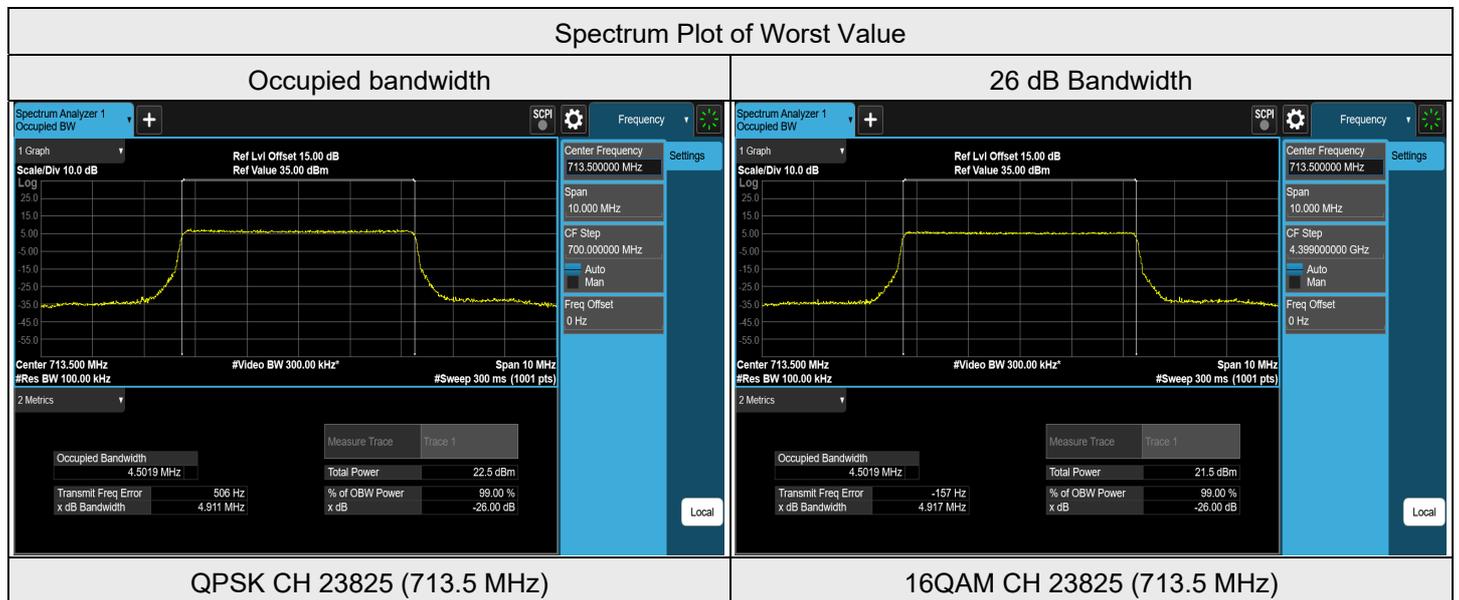
Spectrum Plot of Worst Value



7.4.9 LTE Band 17

LTE Band 17, Channel Bandwidth: 5 MHz

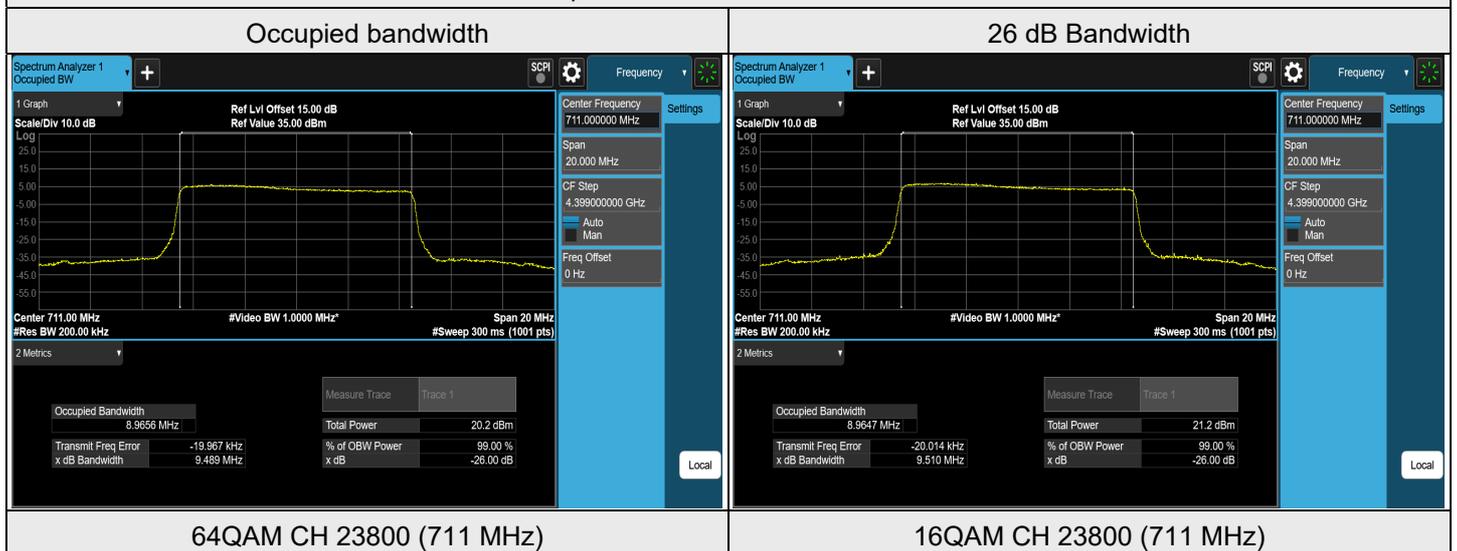
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23755	706.5	4.4896	4.822
QPSK	23790	710	4.4953	4.838
QPSK	23825	713.5	4.5019	4.911
16QAM	23755	706.5	4.4876	4.843
16QAM	23790	710	4.4910	4.870
16QAM	23825	713.5	4.5019	4.917
64QAM	23755	706.5	4.4878	4.852
64QAM	23790	710	4.4929	4.869
64QAM	23825	713.5	4.5009	4.889



LTE Band 17, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23780	709	8.9294	9.491
QPSK	23790	710	8.9398	9.486
QPSK	23800	711	8.9642	9.492
16QAM	23780	709	8.9230	9.478
16QAM	23790	710	8.9345	9.479
16QAM	23800	711	8.9647	9.510
64QAM	23780	709	8.9205	9.478
64QAM	23790	710	8.9391	9.480
64QAM	23800	711	8.9656	9.489

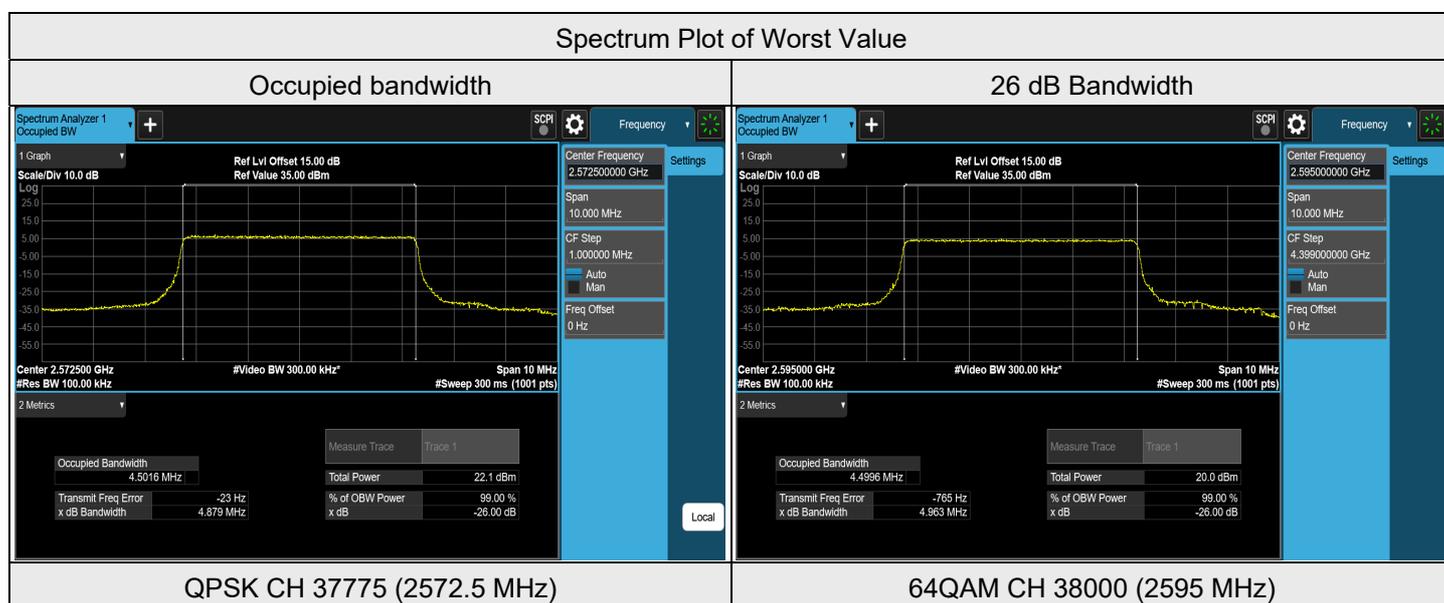
Spectrum Plot of Worst Value



7.4.10 LTE Band 38

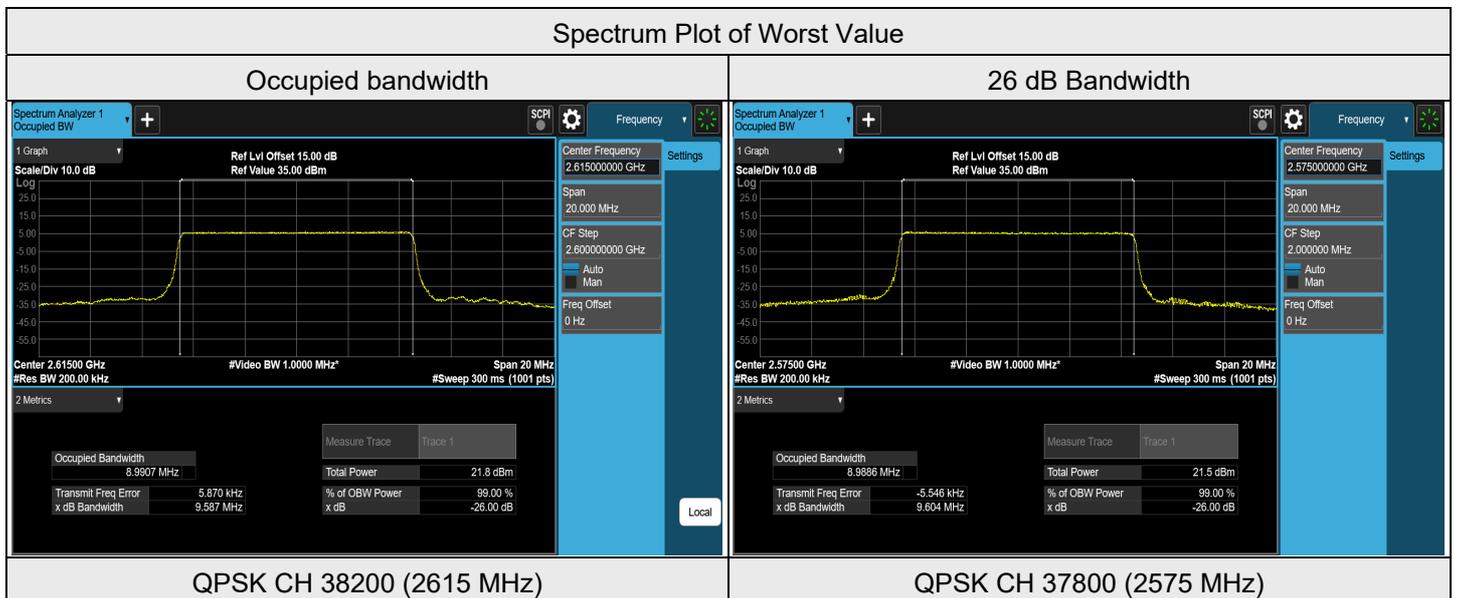
LTE Band 38, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37775	2572.5	4.5016	4.879
QPSK	38000	2595	4.4983	4.877
QPSK	38225	2617.5	4.4986	4.917
16QAM	37775	2572.5	4.4908	4.840
16QAM	38000	2595	4.4936	4.870
16QAM	38225	2617.5	4.4943	4.867
64QAM	37775	2572.5	4.4999	4.882
64QAM	38000	2595	4.4996	4.963
64QAM	38225	2617.5	4.4993	4.891



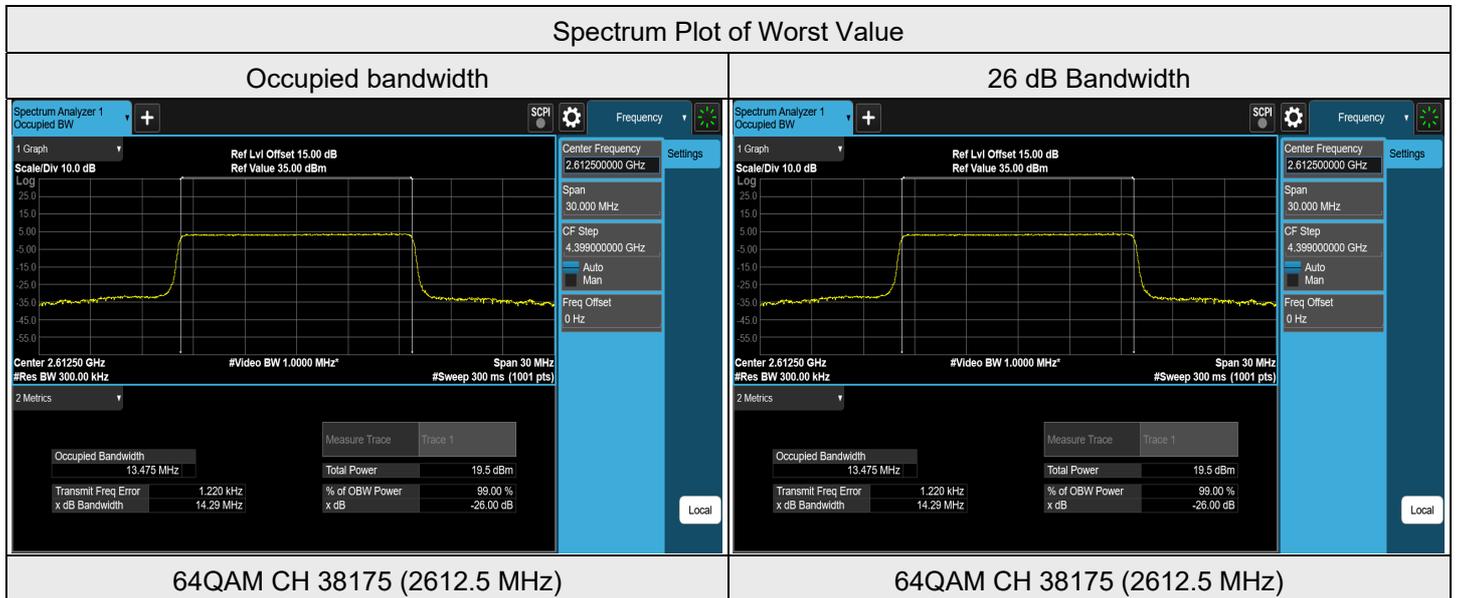
LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37800	2575	8.9886	9.604
QPSK	38000	2595	8.9859	9.581
QPSK	38200	2615	8.9907	9.587
16QAM	37800	2575	8.9727	9.544
16QAM	38000	2595	8.9818	9.568
16QAM	38200	2615	8.9822	9.522
64QAM	37800	2575	8.9803	9.562
64QAM	38000	2595	8.9836	9.567
64QAM	38200	2615	8.9857	9.568



LTE Band 38, Channel Bandwidth: 15 MHz

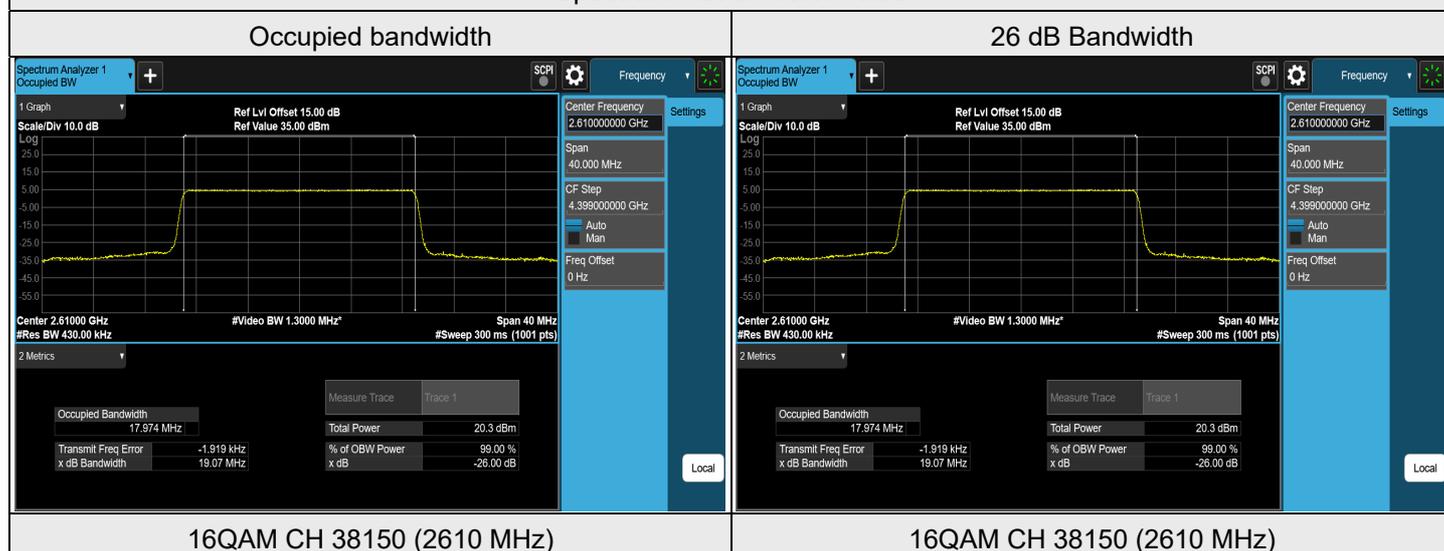
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37825	2577.5	13.4614	14.262
QPSK	38000	2595	13.4629	14.248
QPSK	38175	2612.5	13.4662	14.264
16QAM	37825	2577.5	13.4728	14.283
16QAM	38000	2595	13.4551	14.254
16QAM	38175	2612.5	13.4729	14.277
64QAM	37825	2577.5	13.4628	14.275
64QAM	38000	2595	13.4679	14.262
64QAM	38175	2612.5	13.4746	14.289



LTE Band 38, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37850	2580	17.9667	19.060
QPSK	38000	2595	17.9624	19.046
QPSK	38150	2610	17.9575	19.046
16QAM	37850	2580	17.9682	19.066
16QAM	38000	2595	17.9663	19.048
16QAM	38150	2610	17.9742	19.074
64QAM	37850	2580	17.9716	19.054
64QAM	38000	2595	17.9705	19.044
64QAM	38150	2610	17.9682	19.046

Spectrum Plot of Worst Value



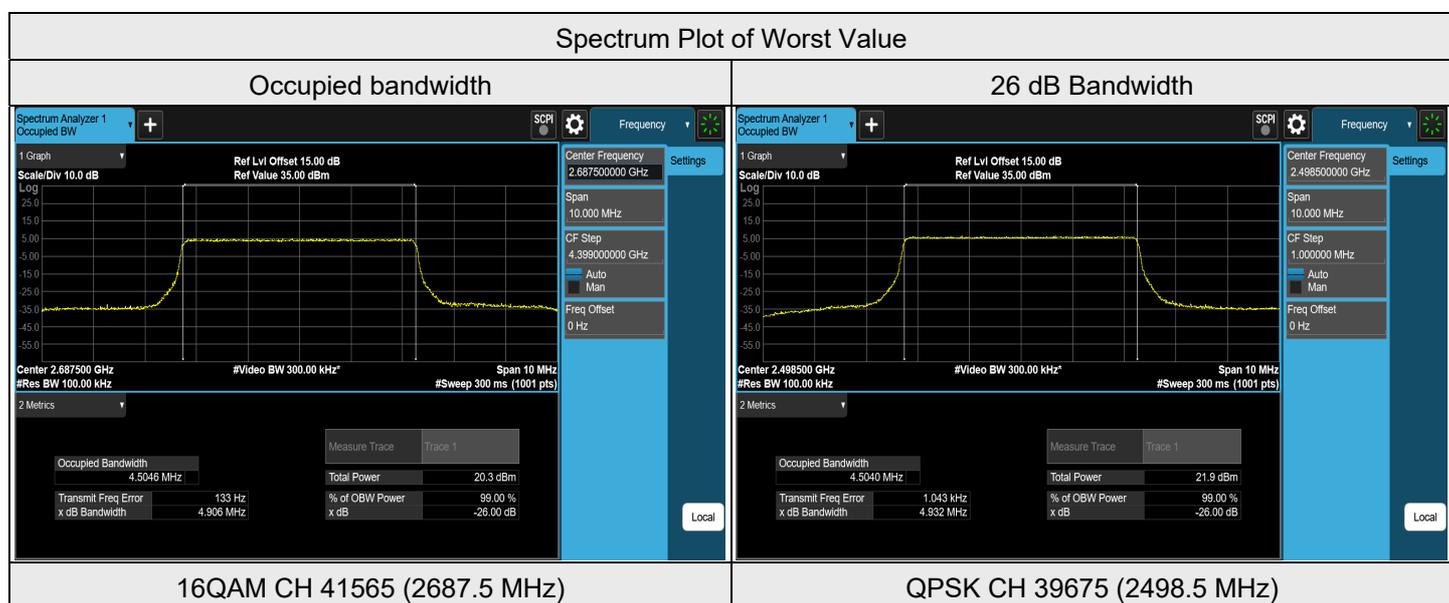
16QAM CH 38150 (2610 MHz)

16QAM CH 38150 (2610 MHz)

7.4.11 LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

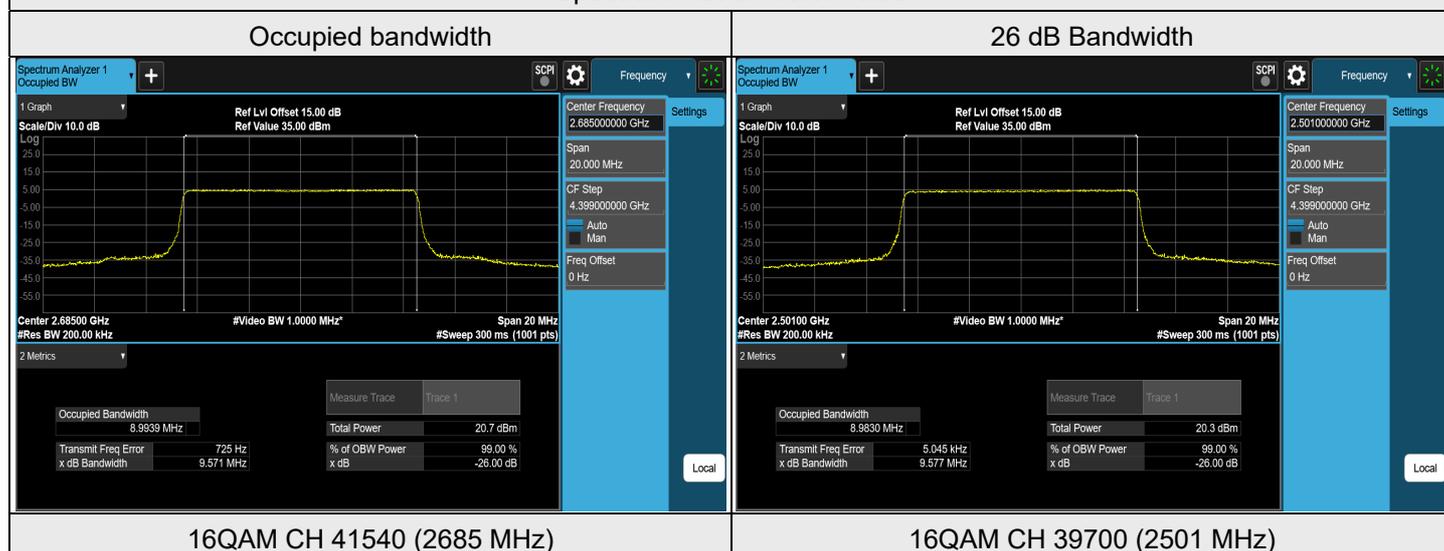
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39675	2498.5	4.5040	4.932
QPSK	40620	2593	4.4923	4.877
QPSK	41565	2687.5	4.5023	4.891
16QAM	39675	2498.5	4.4846	4.819
16QAM	40620	2593	4.4952	4.892
16QAM	41565	2687.5	4.5046	4.906
64QAM	39675	2498.5	4.4959	4.923
64QAM	40620	2593	4.4949	4.868
64QAM	41565	2687.5	4.5008	4.891



LTE Band 41, Channel Bandwidth: 10 MHz

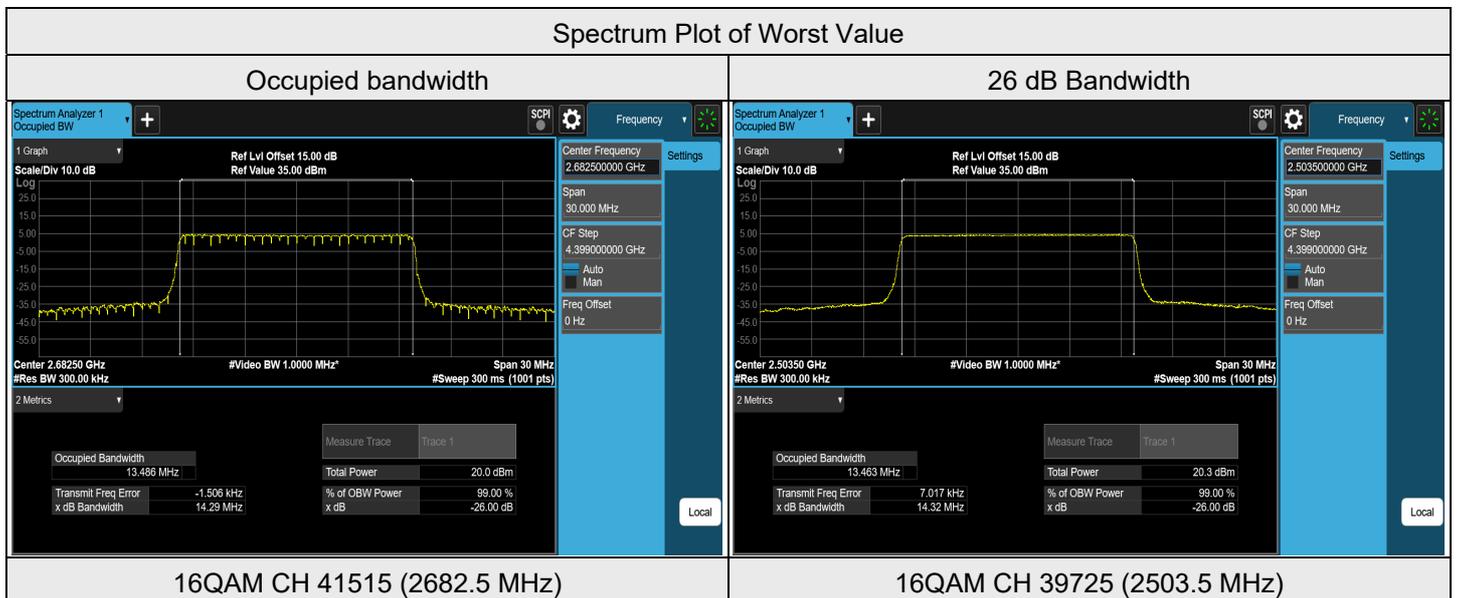
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39700	2501	8.9766	9.561
QPSK	40620	2593	8.9848	9.567
QPSK	41540	2685	8.9866	9.529
16QAM	39700	2501	8.9830	9.577
16QAM	40620	2593	8.9929	9.476
16QAM	41540	2685	8.9939	9.571
64QAM	39700	2501	8.9729	9.545
64QAM	40620	2593	8.9733	9.523
64QAM	41540	2685	8.9834	9.570

Spectrum Plot of Worst Value



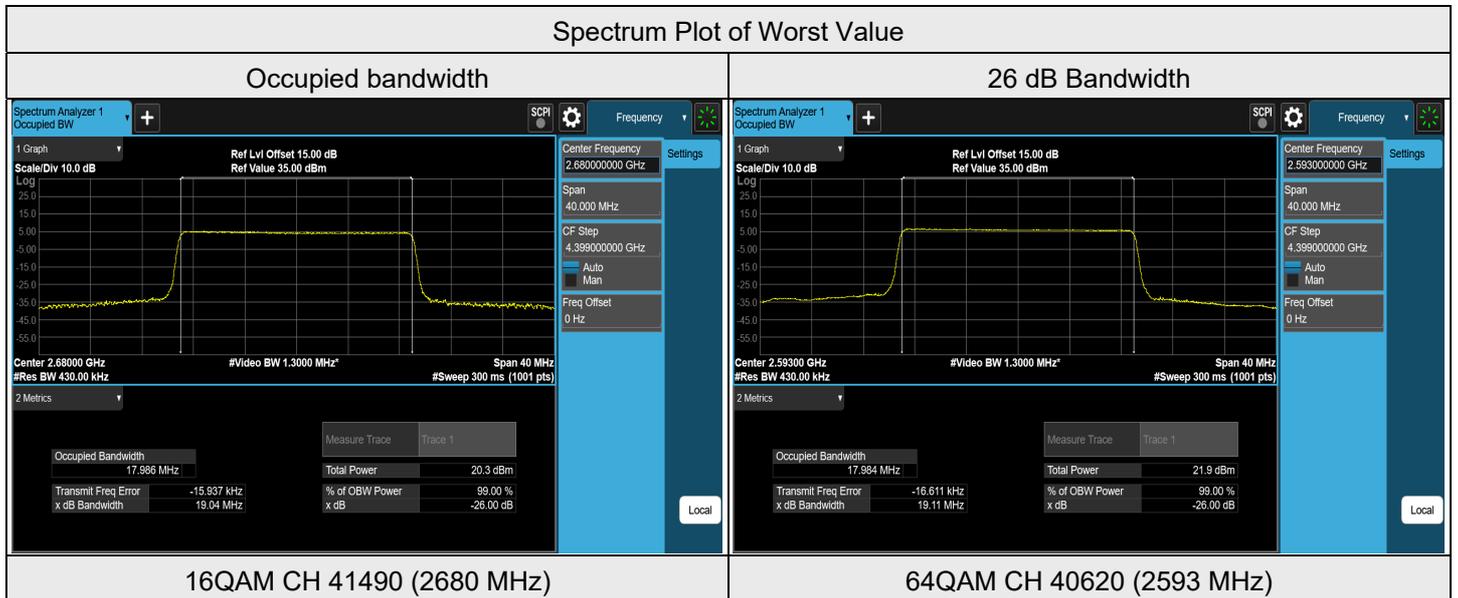
LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39725	2503.5	13.4607	14.290
QPSK	40620	2593	13.4593	14.244
QPSK	41515	2682.5	13.4683	14.278
16QAM	39725	2503.5	13.4631	14.317
16QAM	40620	2593	13.4739	14.287
16QAM	41515	2682.5	13.4860	14.286
64QAM	39725	2503.5	13.4587	14.268
64QAM	40620	2593	13.4673	14.263
64QAM	41515	2682.5	13.4854	14.279



LTE Band 41, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39750	2506	17.9510	19.043
QPSK	40620	2593	17.9644	19.031
QPSK	41490	2680	17.9833	19.031
16QAM	39750	2506	17.9476	19.046
16QAM	40620	2593	17.9561	19.039
16QAM	41490	2680	17.9857	19.040
64QAM	39750	2506	17.9514	19.029
64QAM	40620	2593	17.9843	19.112
64QAM	41490	2680	17.9647	19.052

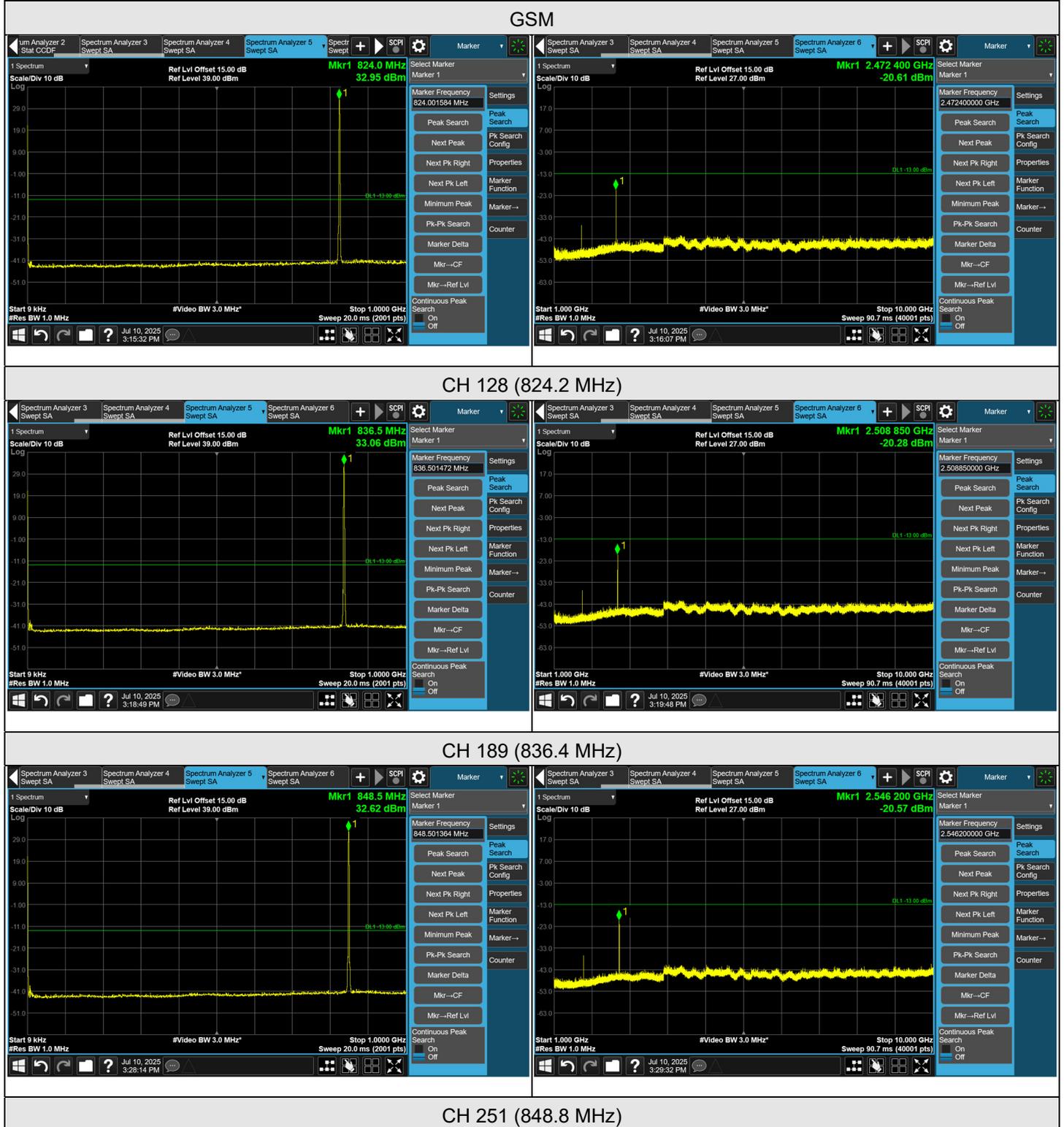




7.5 Conducted Spurious Emissions

Input Power:	3.89 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Noah Chang
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7.5.1 GSM



Note: The signal at 9 kHz is IF signal from spectrum analyzer.