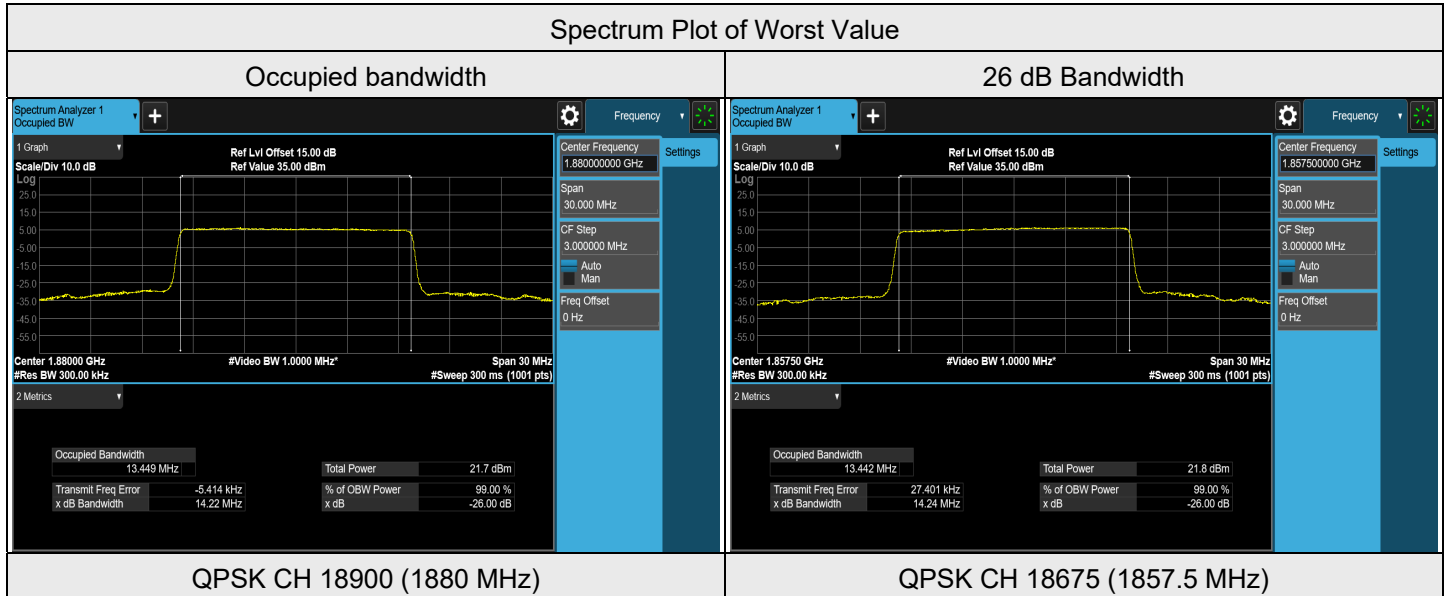


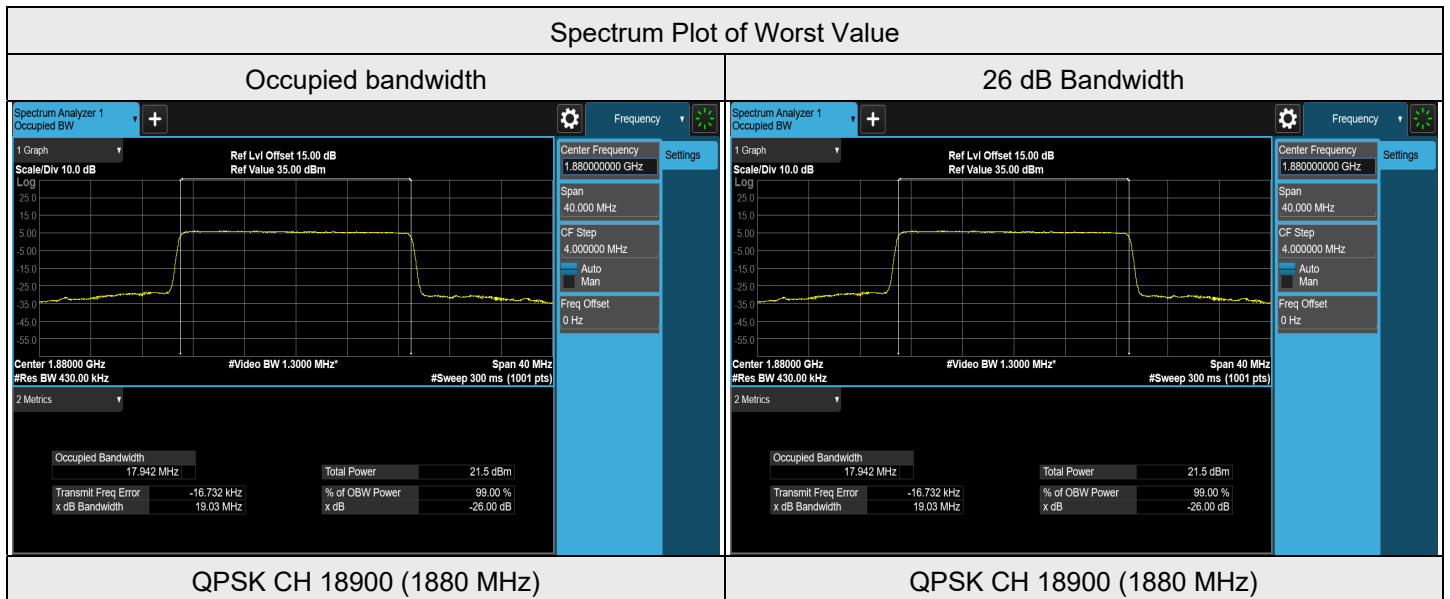
LTE Band 2, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18675	1857.5	13.4420	14.241
QPSK	18900	1880	13.4485	14.222
QPSK	19125	1902.5	13.4396	14.225
16QAM	18675	1857.5	4.6699	5.292
16QAM	18900	1880	4.6741	5.345
16QAM	19125	1902.5	4.6670	5.326



LTE Band 2, Channel Bandwidth: 20 MHz

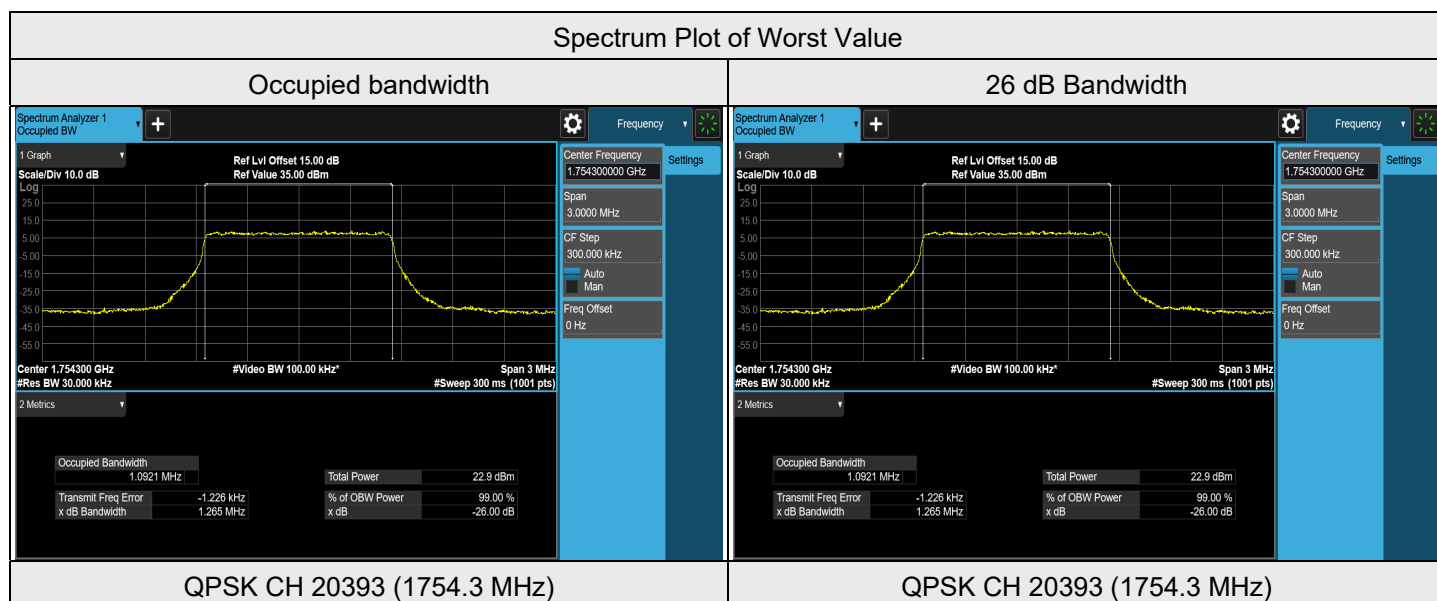
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	18700	1860	17.8641	18.977
QPSK	18900	1880	17.9415	19.026
QPSK	19100	1900	17.8921	18.997
16QAM	18700	1860	4.8118	5.551
16QAM	18900	1880	4.8132	5.604
16QAM	19100	1900	4.8081	5.607



7.4.5 LTE Band 4

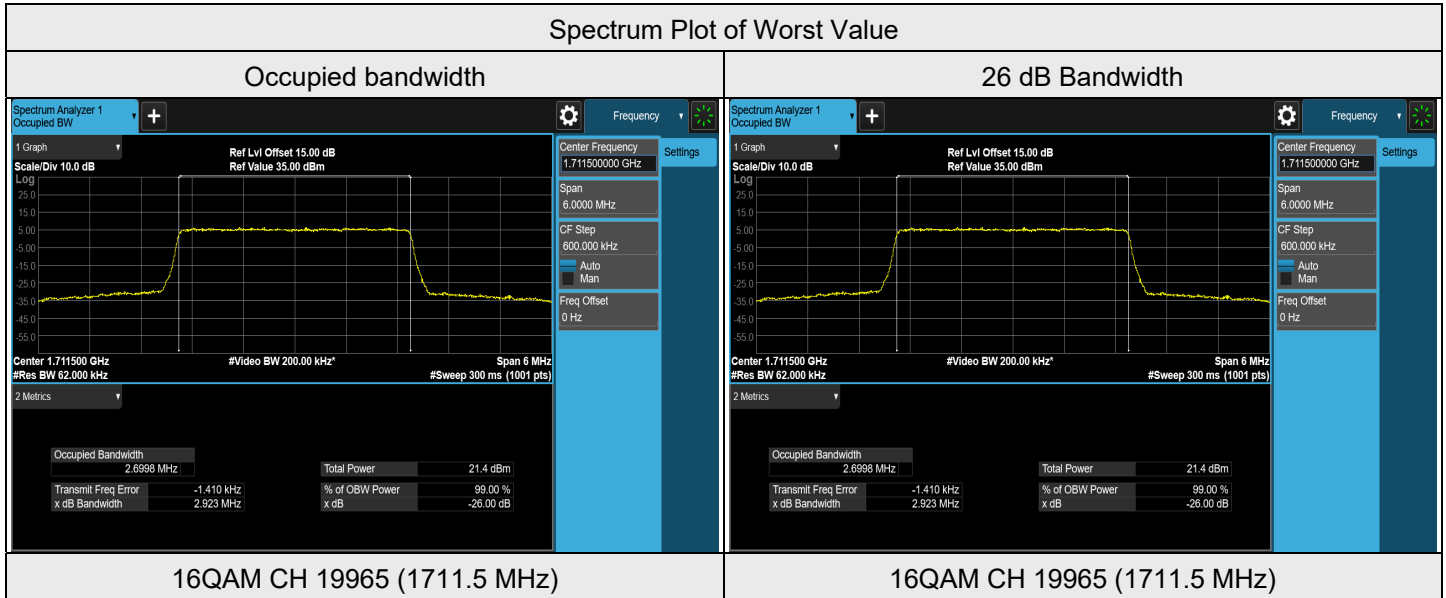
LTE Band 4, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19957	1710.7	1.0878	1.256
QPSK	20175	1732.5	1.0916	1.259
QPSK	20393	1754.3	1.0921	1.265
16QAM	19957	1710.7	1.0899	1.251
16QAM	20175	1732.5	1.0894	1.242
16QAM	20393	1754.3	1.0872	1.237



LTE Band 4, Channel Bandwidth: 3 MHz

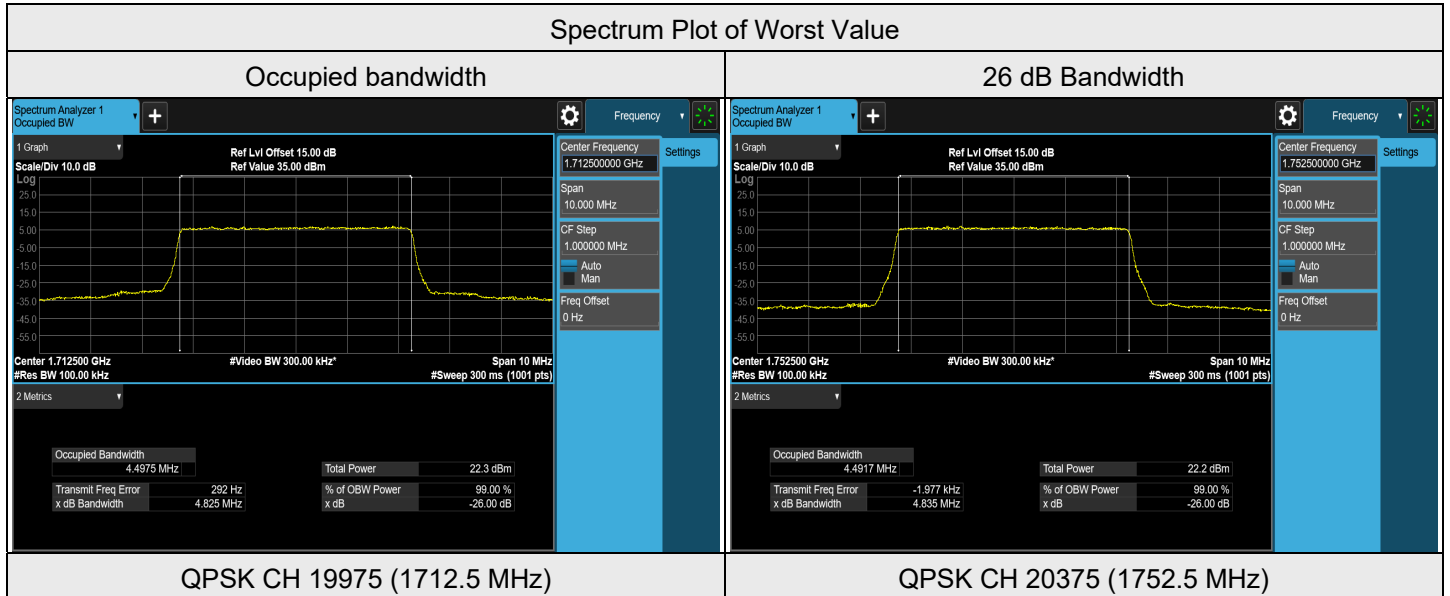
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19965	1711.5	2.6987	2.912
QPSK	20175	1732.5	2.6971	2.918
QPSK	20385	1753.5	2.6958	2.911
16QAM	19965	1711.5	2.6998	2.923
16QAM	20175	1732.5	2.6960	2.911
16QAM	20385	1753.5	2.6979	2.920





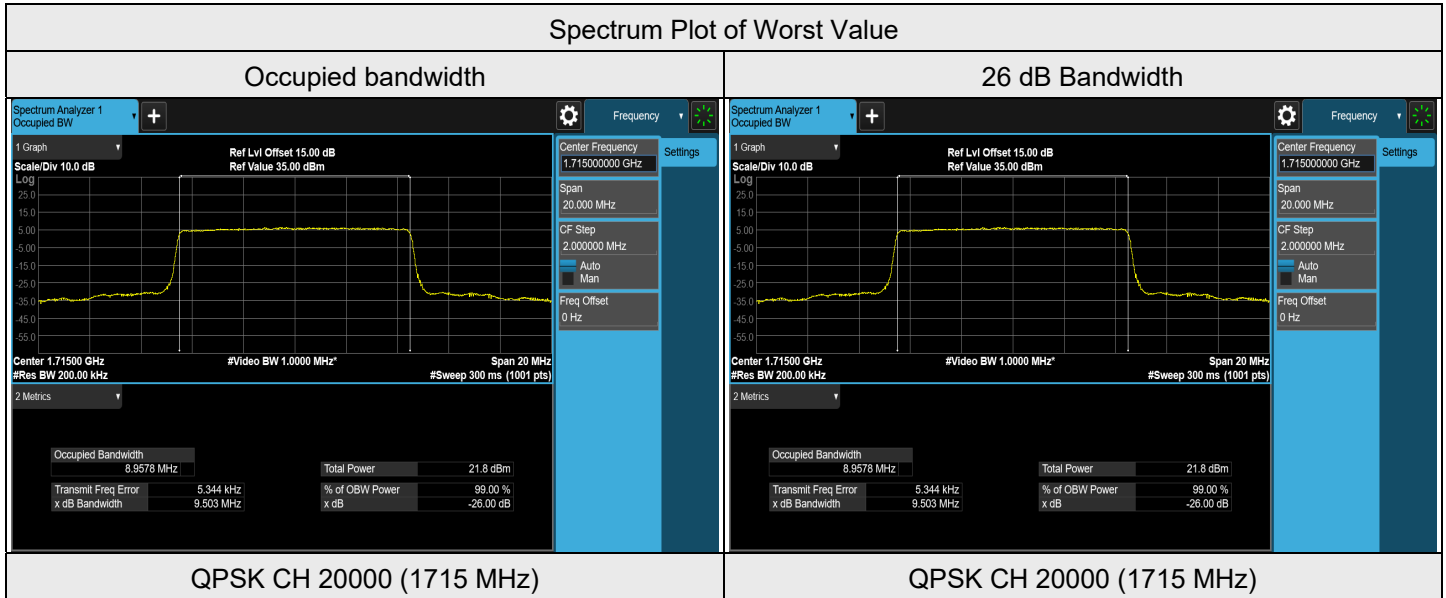
LTE Band 4, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	19975	1712.5	4.4975	4.825
QPSK	20175	1732.5	4.4914	4.824
QPSK	20375	1752.5	4.4917	4.835
16QAM	19975	1712.5	4.4930	4.829
16QAM	20175	1732.5	4.4900	4.810
16QAM	20375	1752.5	4.4911	4.818



LTE Band 4, Channel Bandwidth: 10 MHz

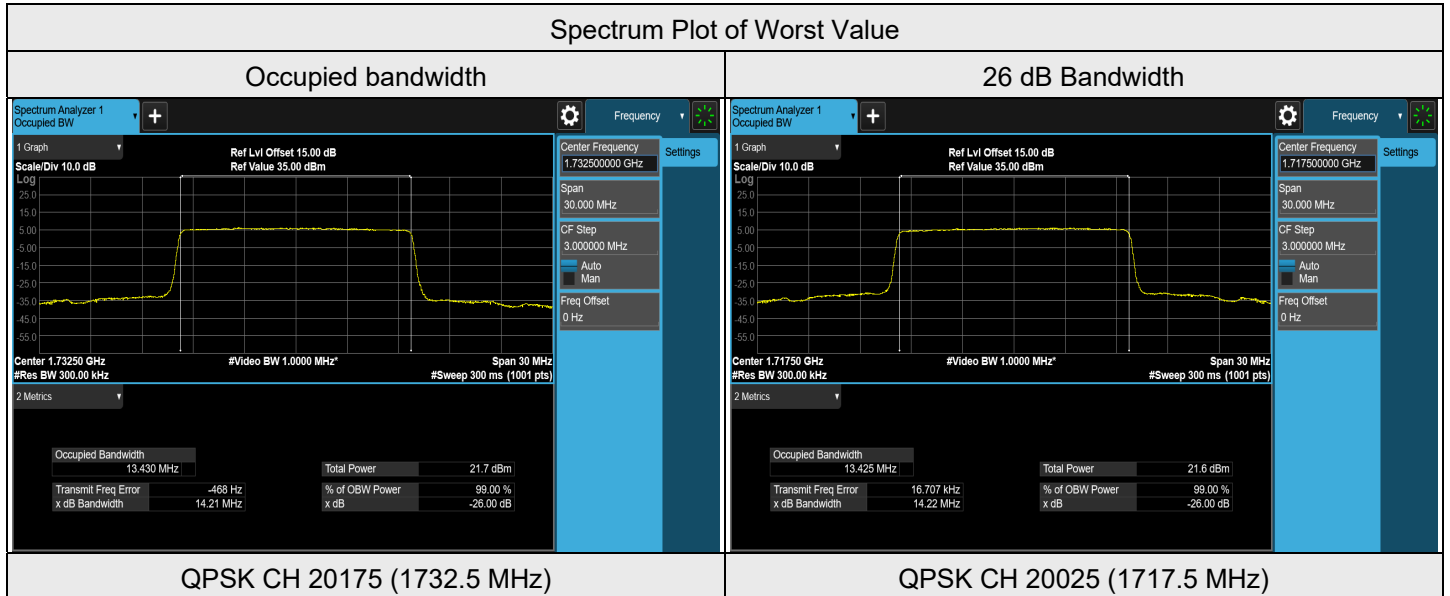
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20000	1715	8.9578	9.503
QPSK	20175	1732.5	8.9545	9.502
QPSK	20350	1750	8.9521	9.495
16QAM	20000	1715	4.5672	5.087
16QAM	20175	1732.5	4.5682	5.098
16QAM	20350	1750	4.5697	5.112





LTE Band 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20025	1717.5	13.4251	14.223
QPSK	20175	1732.5	13.4299	14.211
QPSK	20325	1747.5	13.4180	14.218
16QAM	20025	1717.5	4.6723	5.330
16QAM	20175	1732.5	4.6671	5.334
16QAM	20325	1747.5	4.6685	5.319

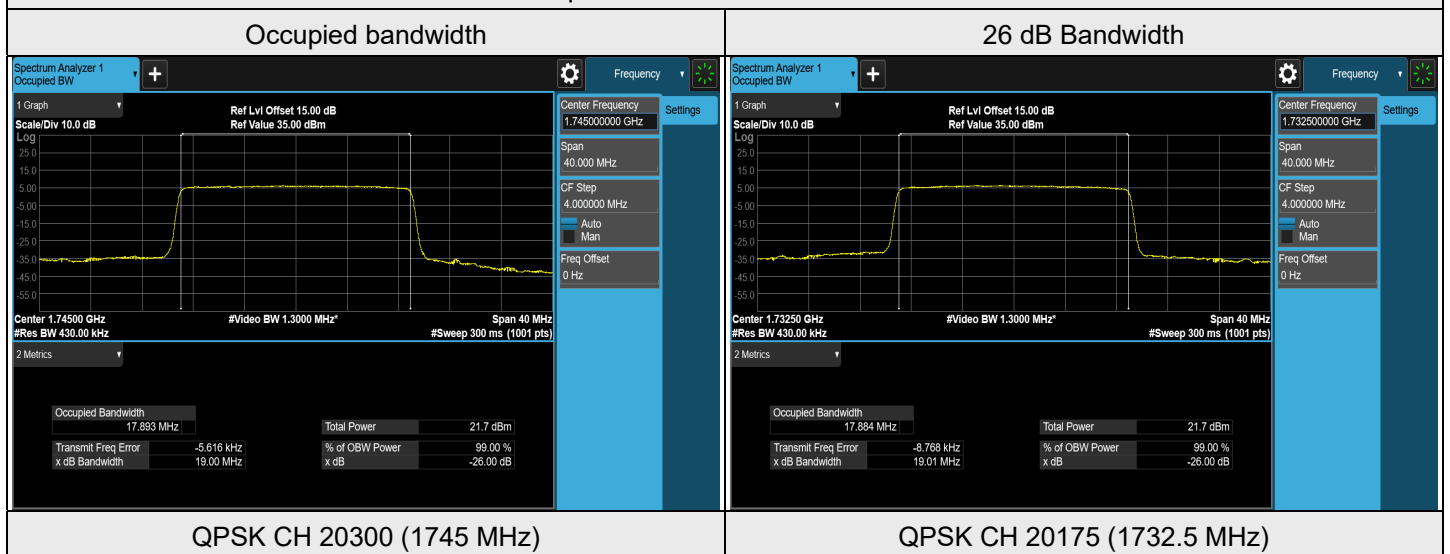




LTE Band 4, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20050	1720	17.8869	18.997
QPSK	20175	1732.5	17.8844	19.007
QPSK	20300	1745	17.8927	19.005
16QAM	20050	1720	4.8136	5.578
16QAM	20175	1732.5	4.8083	5.567
16QAM	20300	1745	4.8138	5.597

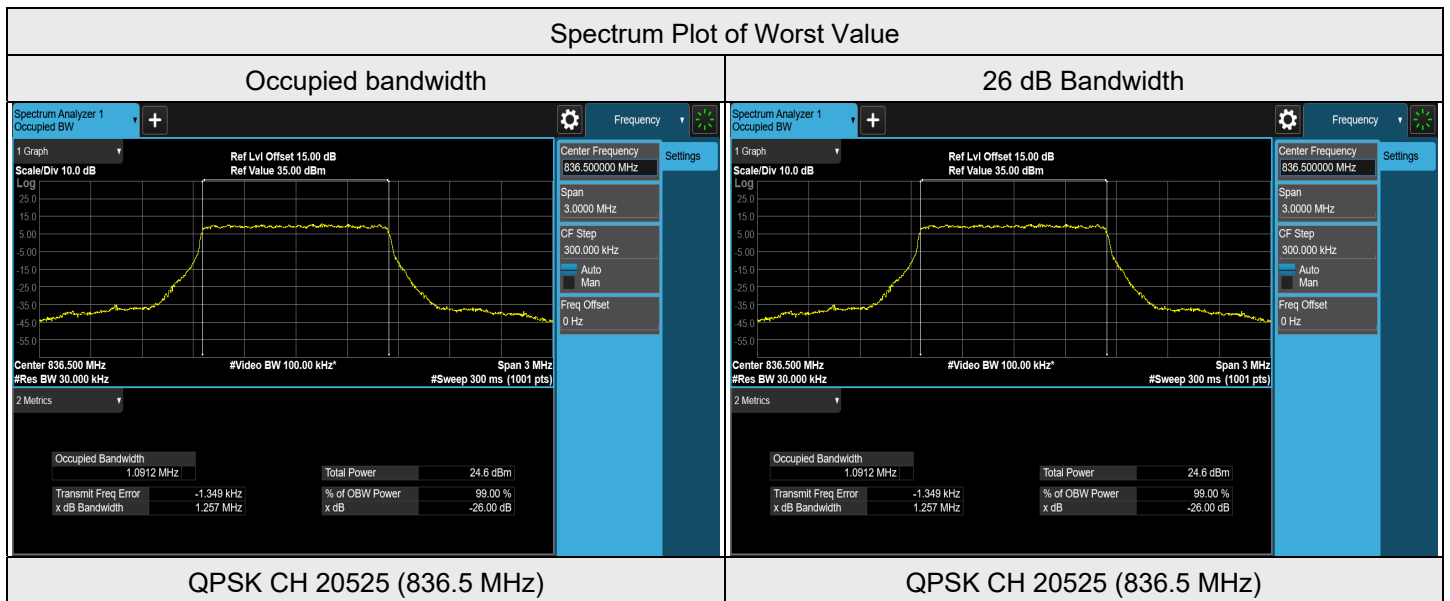
Spectrum Plot of Worst Value



7.4.6 LTE Band 5

LTE Band 5, Channel Bandwidth: 1.4 MHz

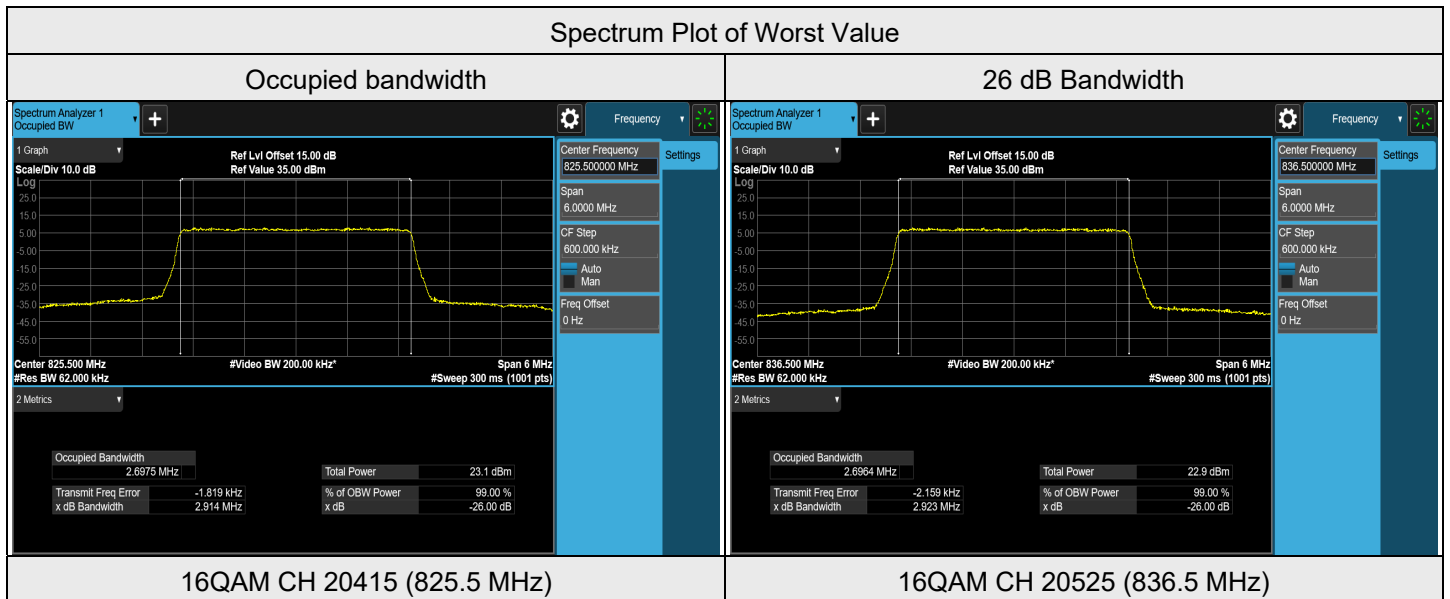
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20407	824.7	1.0879	1.251
QPSK	20525	836.5	1.0912	1.257
QPSK	20643	848.3	1.0912	1.256
16QAM	20407	824.7	1.0877	1.246
16QAM	20525	836.5	1.0884	1.242
16QAM	20643	848.3	1.0875	1.247





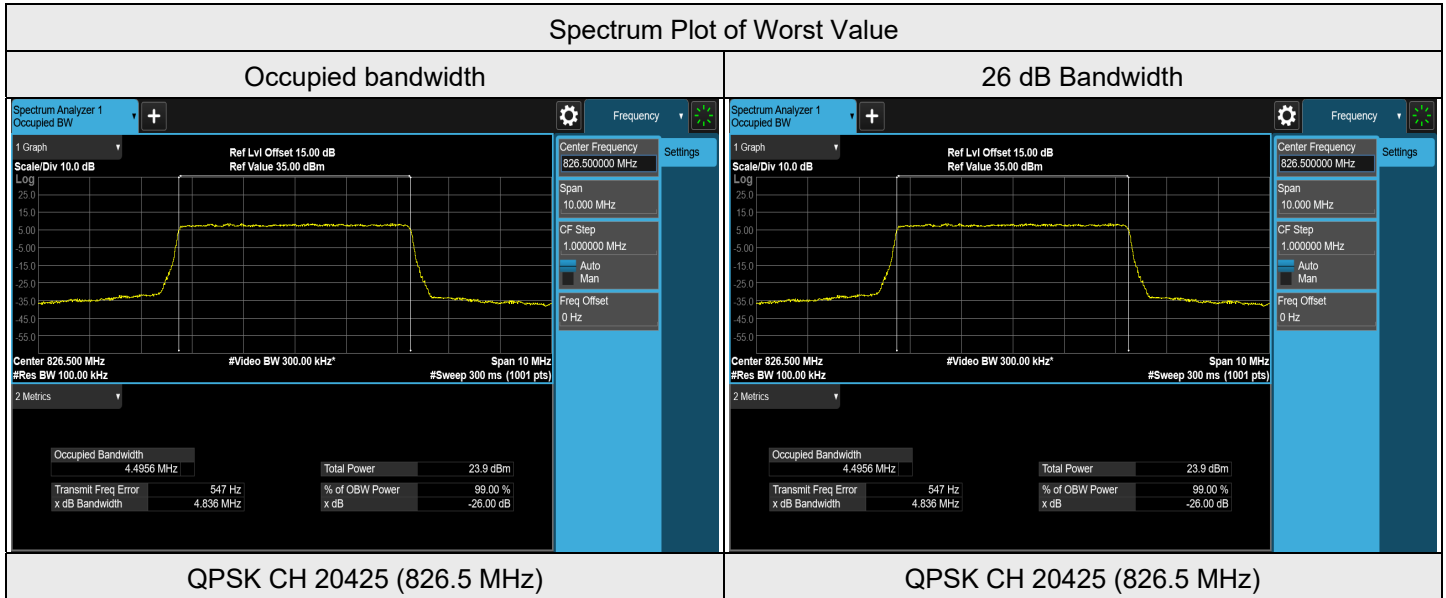
LTE Band 5, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20415	825.5	2.6972	2.912
QPSK	20525	836.5	2.6959	2.913
QPSK	20635	847.5	2.6956	2.917
16QAM	20415	825.5	2.6975	2.914
16QAM	20525	836.5	2.6964	2.923
16QAM	20635	847.5	2.6960	2.920



LTE Band 5, Channel Bandwidth: 5 MHz

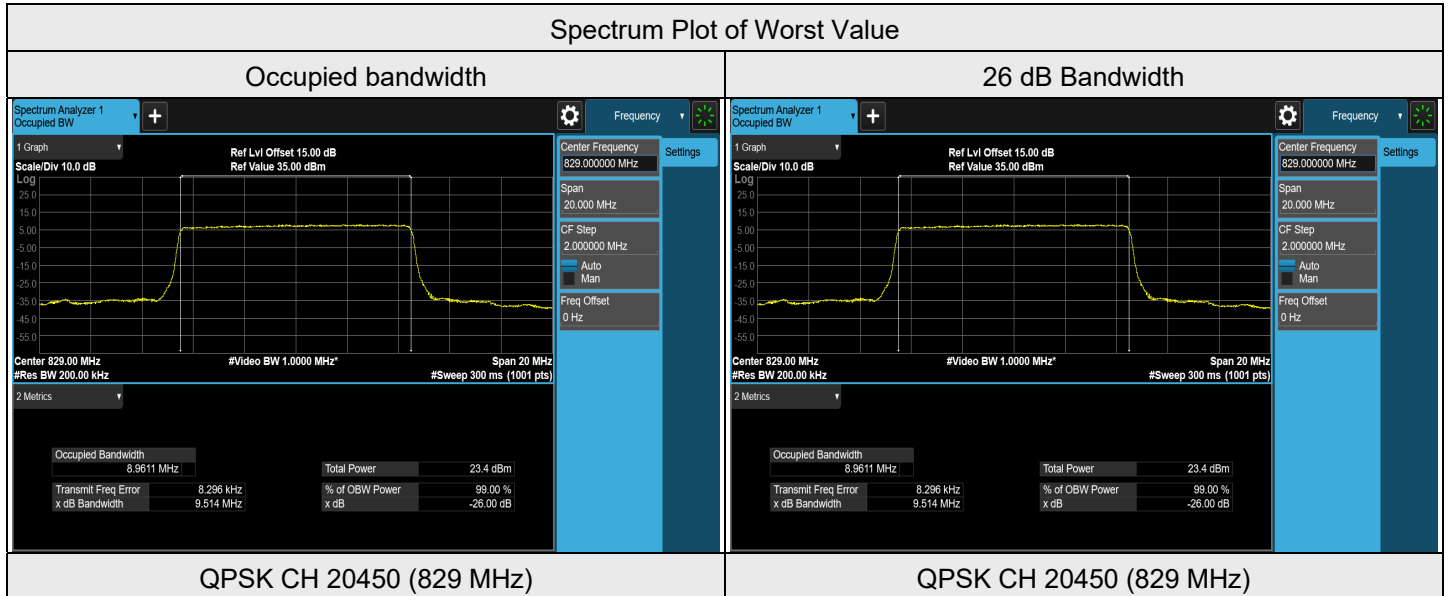
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20425	826.5	4.4956	4.836
QPSK	20525	836.5	4.4893	4.814
QPSK	20625	846.5	4.4862	4.812
16QAM	20425	826.5	4.4920	4.812
16QAM	20525	836.5	4.4883	4.813
16QAM	20625	846.5	4.4844	4.797





LTE Band 5, Channel Bandwidth: 10 MHz

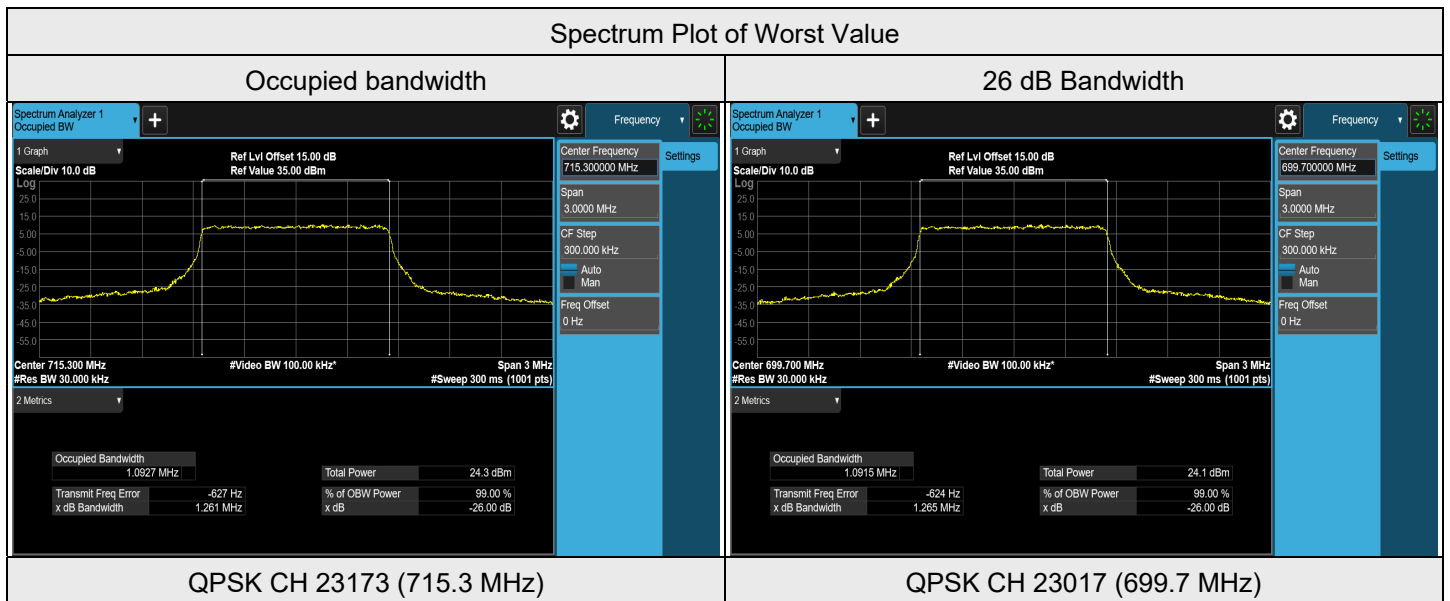
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	20450	829	8.9611	9.514
QPSK	20525	836.5	8.9510	9.504
QPSK	20600	844	8.9461	9.510
16QAM	20450	829	4.5664	5.085
16QAM	20525	836.5	4.5671	5.138
16QAM	20600	844	4.5692	5.081



7.4.7 LTE Band 12

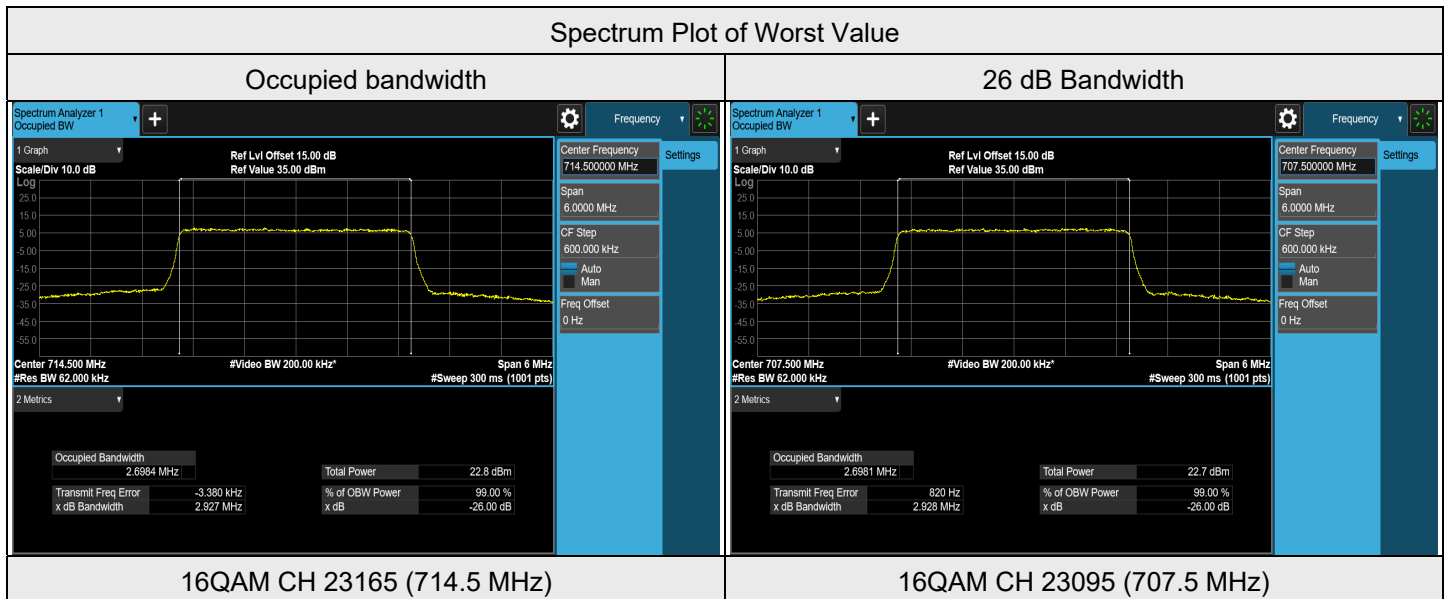
LTE Band 12, Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23017	699.7	1.0915	1.265
QPSK	23095	707.5	1.0914	1.263
QPSK	23173	715.3	1.0927	1.261
16QAM	23017	699.7	1.0884	1.259
16QAM	23095	707.5	1.0890	1.250
16QAM	23173	715.3	1.0879	1.261



LTE Band 12, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23025	700.5	2.6973	2.912
QPSK	23095	707.5	2.6958	2.925
QPSK	23165	714.5	2.6964	2.925
16QAM	23025	700.5	2.6972	2.922
16QAM	23095	707.5	2.6981	2.928
16QAM	23165	714.5	2.6984	2.927

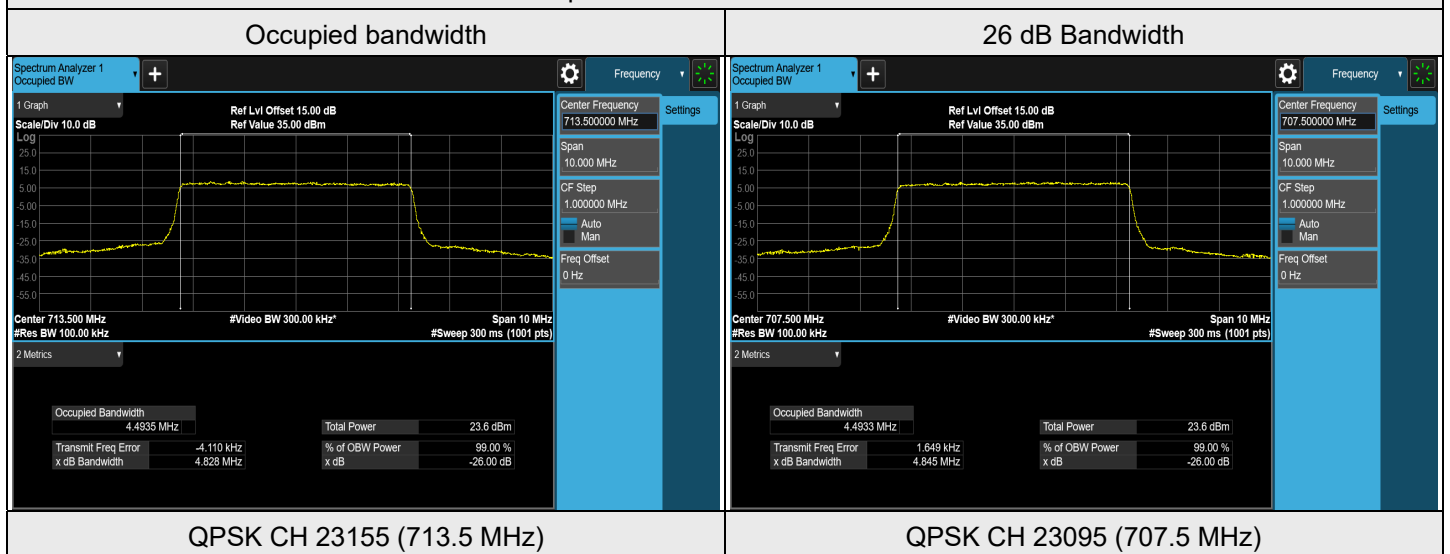




LTE Band 12, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23035	701.5	4.4933	4.835
QPSK	23095	707.5	4.4933	4.845
QPSK	23155	713.5	4.4935	4.828
16QAM	23035	701.5	4.4900	4.822
16QAM	23095	707.5	4.4916	4.814
16QAM	23155	713.5	4.4927	4.811

Spectrum Plot of Worst Value

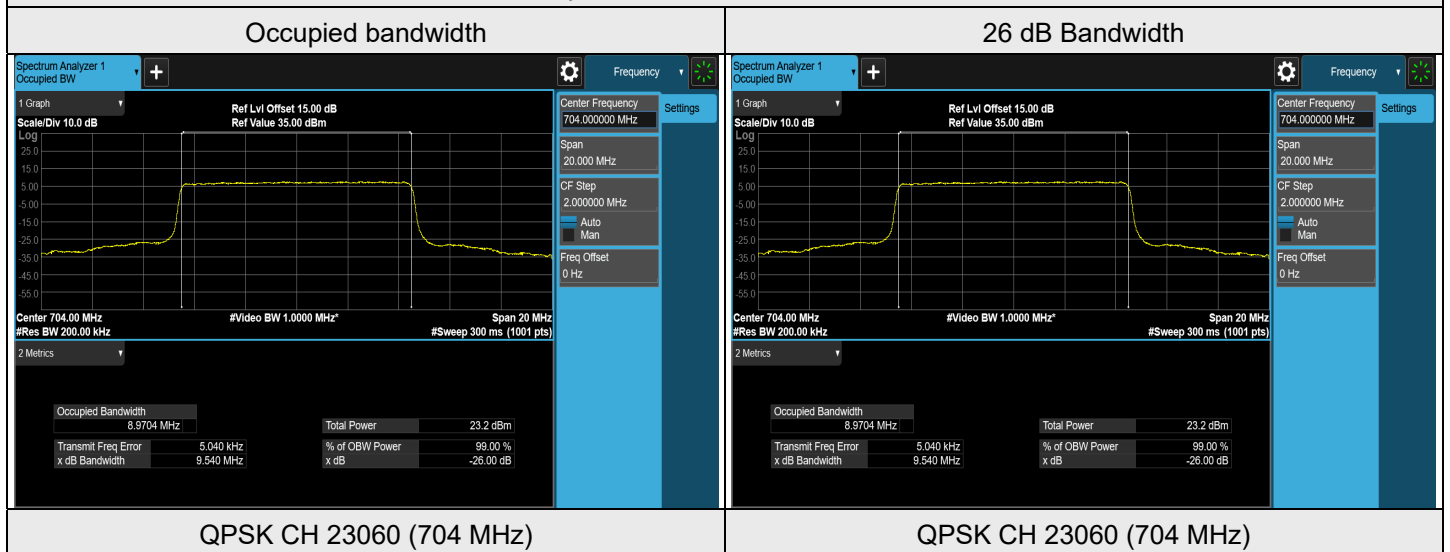




LTE Band 12, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	23060	704	8.9704	9.540
QPSK	23095	707.5	8.9540	9.514
QPSK	23130	711	8.9460	9.514
16QAM	23060	704	4.5739	5.129
16QAM	23095	707.5	4.5675	5.093
16QAM	23130	711	4.5667	5.093

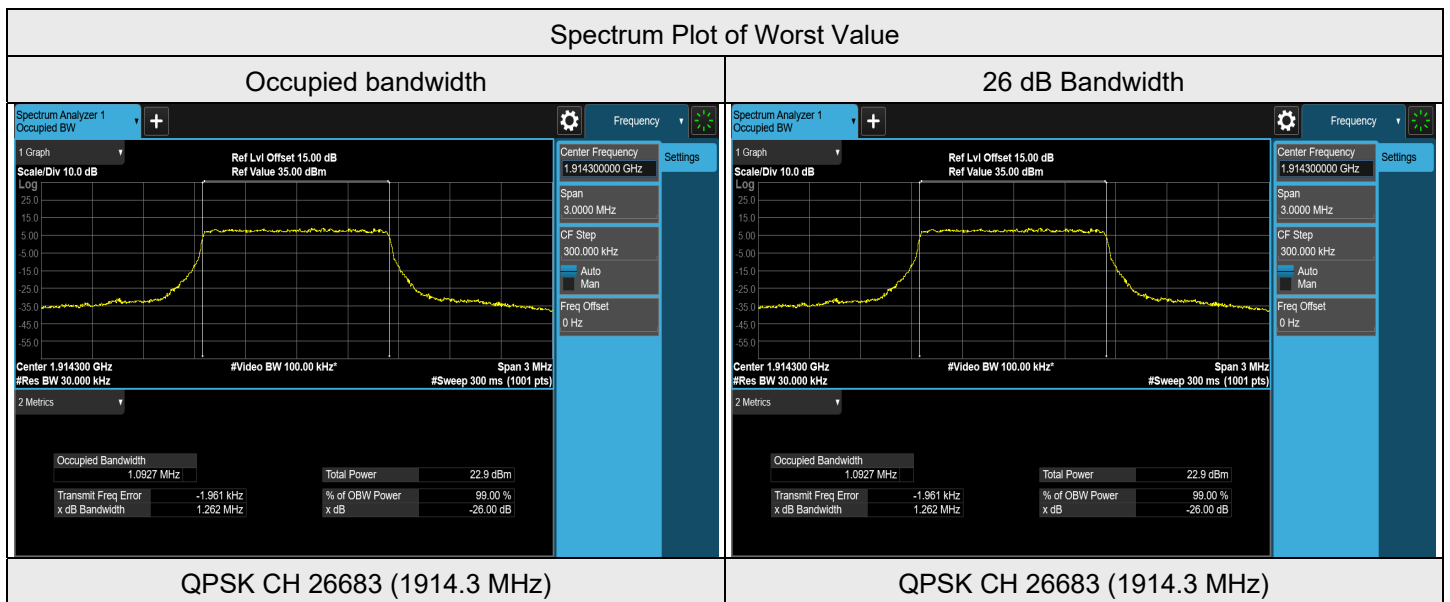
Spectrum Plot of Worst Value



7.4.8 LTE Band 25

LTE Band 25, Channel Bandwidth: 1.4 MHz

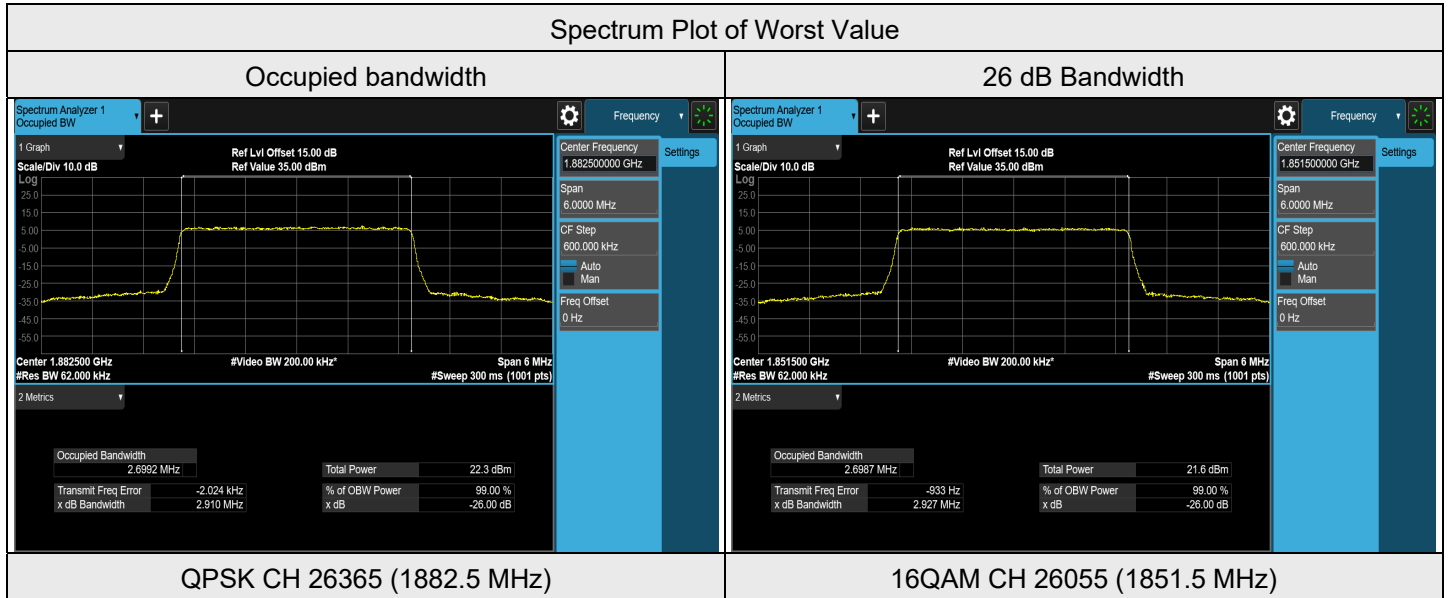
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26047	1850.7	1.0921	1.261
QPSK	26365	1882.5	1.0912	1.259
QPSK	26683	1914.3	1.0927	1.262
16QAM	26047	1850.7	1.0877	1.245
16QAM	26365	1882.5	1.0891	1.249
16QAM	26683	1914.3	1.0873	1.244





LTE Band 25, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26055	1851.5	2.6981	2.917
QPSK	26365	1882.5	2.6992	2.910
QPSK	26675	1913.5	2.6969	2.917
16QAM	26055	1851.5	2.6987	2.927
16QAM	26365	1882.5	2.6977	2.917
16QAM	26675	1913.5	2.6974	2.911

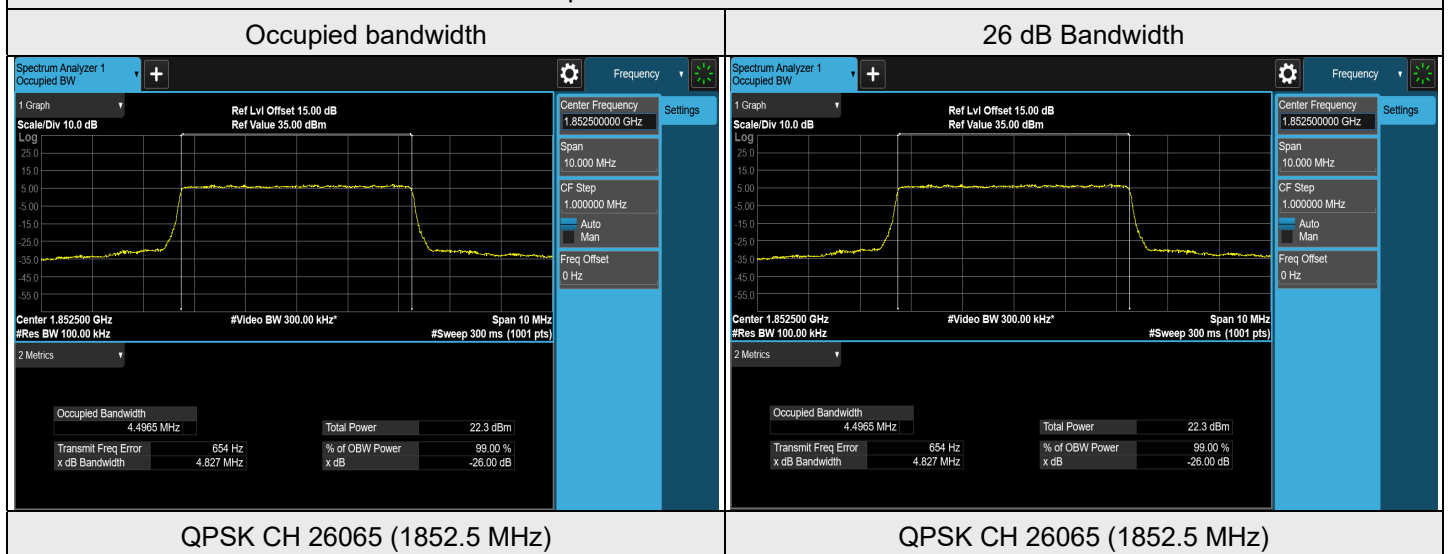




LTE Band 25, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26065	1852.5	4.4965	4.827
QPSK	26365	1882.5	4.4963	4.824
QPSK	26665	1912.5	4.4923	4.811
16QAM	26065	1852.5	4.4935	4.819
16QAM	26365	1882.5	4.4941	4.818
16QAM	26665	1912.5	4.4891	4.796

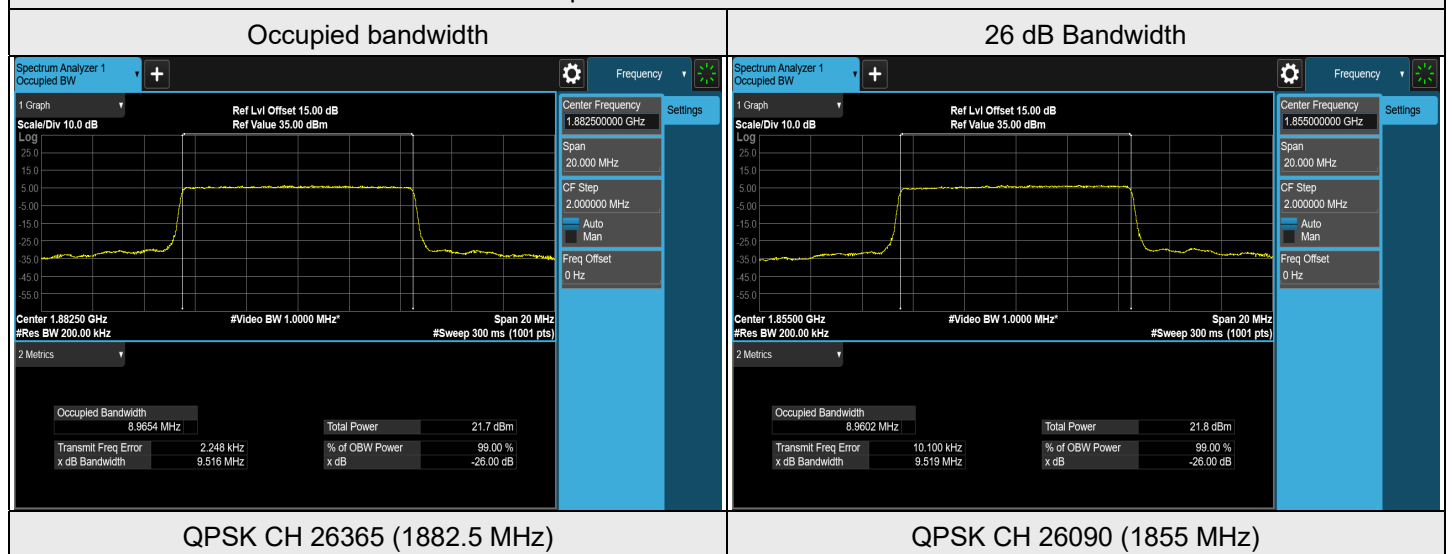
Spectrum Plot of Worst Value



LTE Band 25, Channel Bandwidth: 10 MHz

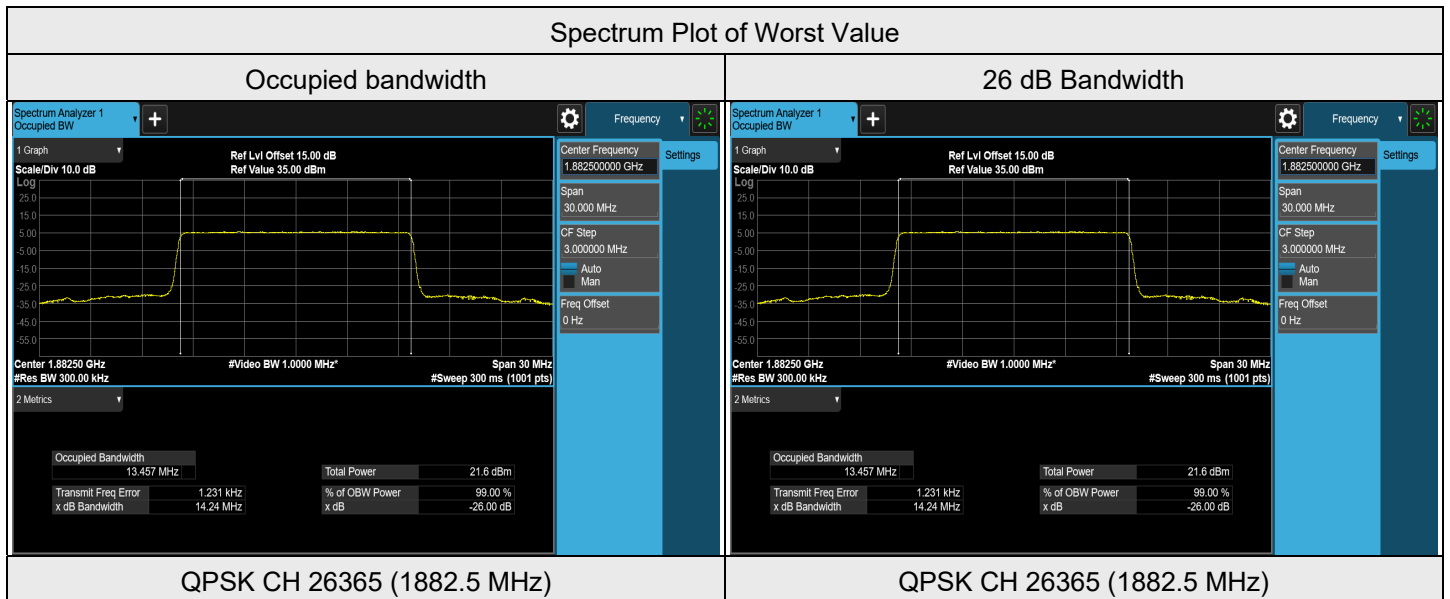
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26090	1855	8.9602	9.519
QPSK	26365	1882.5	8.9654	9.516
QPSK	26640	1910	8.9459	9.498
16QAM	26090	1855	4.5704	5.082
16QAM	26365	1882.5	4.5676	5.084
16QAM	26640	1910	4.5624	5.071

Spectrum Plot of Worst Value



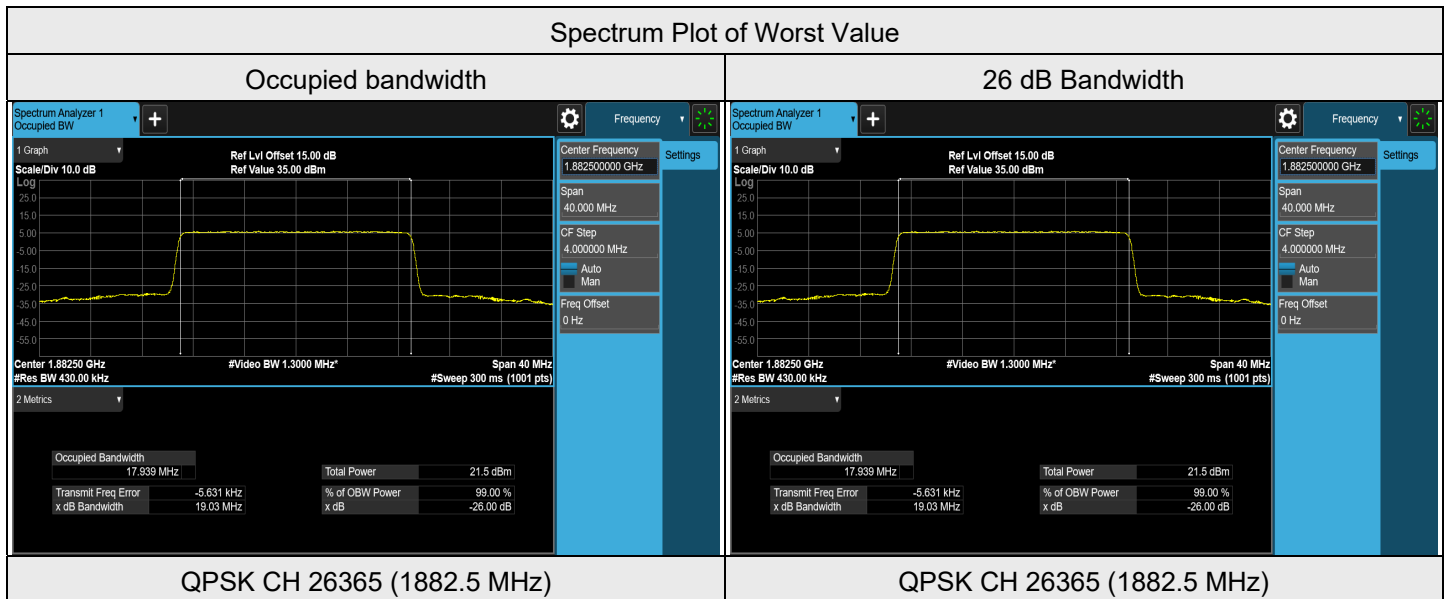
LTE Band 25, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26115	1857.5	13.4388	14.224
QPSK	26365	1882.5	13.4570	14.241
QPSK	26615	1907.5	13.4216	14.209
16QAM	26115	1857.5	4.6669	5.330
16QAM	26365	1882.5	4.6752	5.360
16QAM	26615	1907.5	4.6711	5.317



LTE Band 25, Channel Bandwidth: 20 MHz

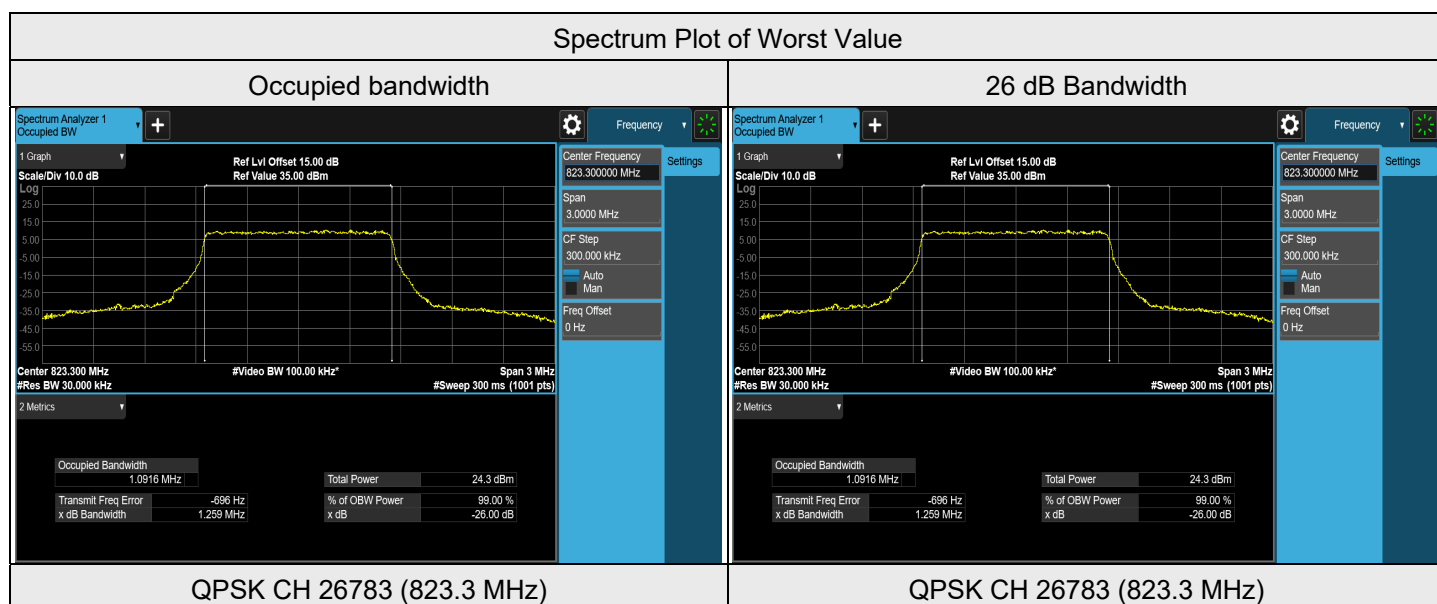
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26140	1860	17.8716	18.989
QPSK	26365	1882.5	17.9392	19.035
QPSK	26590	1905	17.8898	19.004
16QAM	26140	1860	4.8097	5.602
16QAM	26365	1882.5	4.8119	5.594
16QAM	26590	1905	4.8161	5.598



7.4.9 LTE Band 26 (814 MHz ~ 824 MHz)

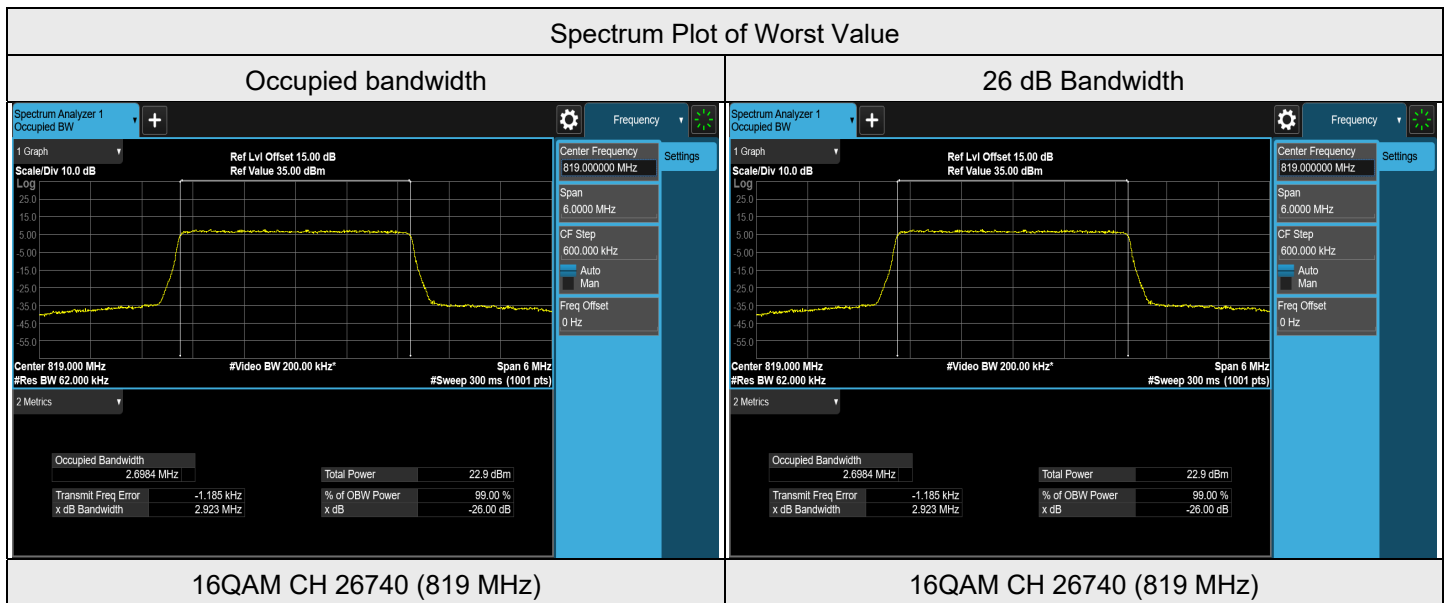
LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 1.4 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26697	814.7	1.0879	1.253
QPSK	26740	819	1.0912	1.253
QPSK	26783	823.3	1.0916	1.259
16QAM	26697	814.7	1.0886	1.249
16QAM	26740	819	1.0877	1.244
16QAM	26783	823.3	1.0883	1.246



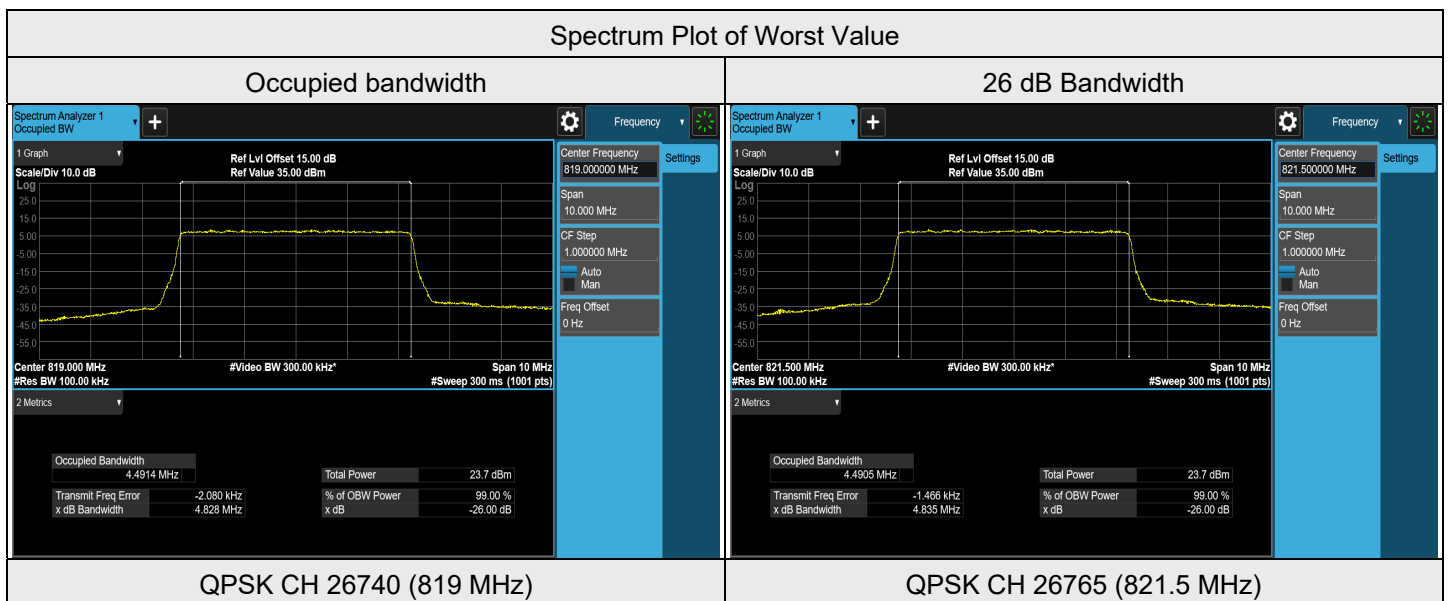
LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26705	815.5	2.6951	2.914
QPSK	26740	819	2.6962	2.908
QPSK	26775	822.5	2.6980	2.916
16QAM	26705	815.5	2.6974	2.917
16QAM	26740	819	2.6984	2.923
16QAM	26775	822.5	2.6966	2.921



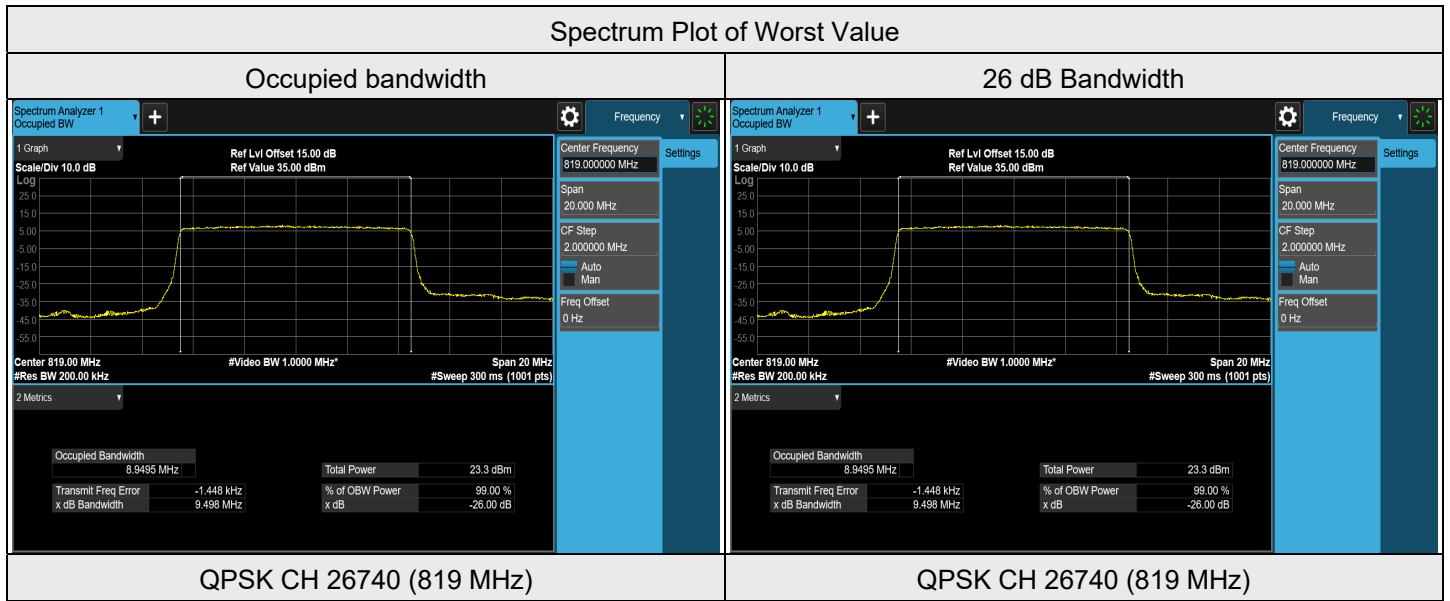
LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26715	816.5	4.4905	4.813
QPSK	26740	819	4.4914	4.828
QPSK	26765	821.5	4.4905	4.835
16QAM	26715	816.5	4.4893	4.804
16QAM	26740	819	4.4881	4.809
16QAM	26765	821.5	4.4884	4.812



LTE Band 26 (814 MHz ~ 824 MHz), Channel Bandwidth: 10 MHz

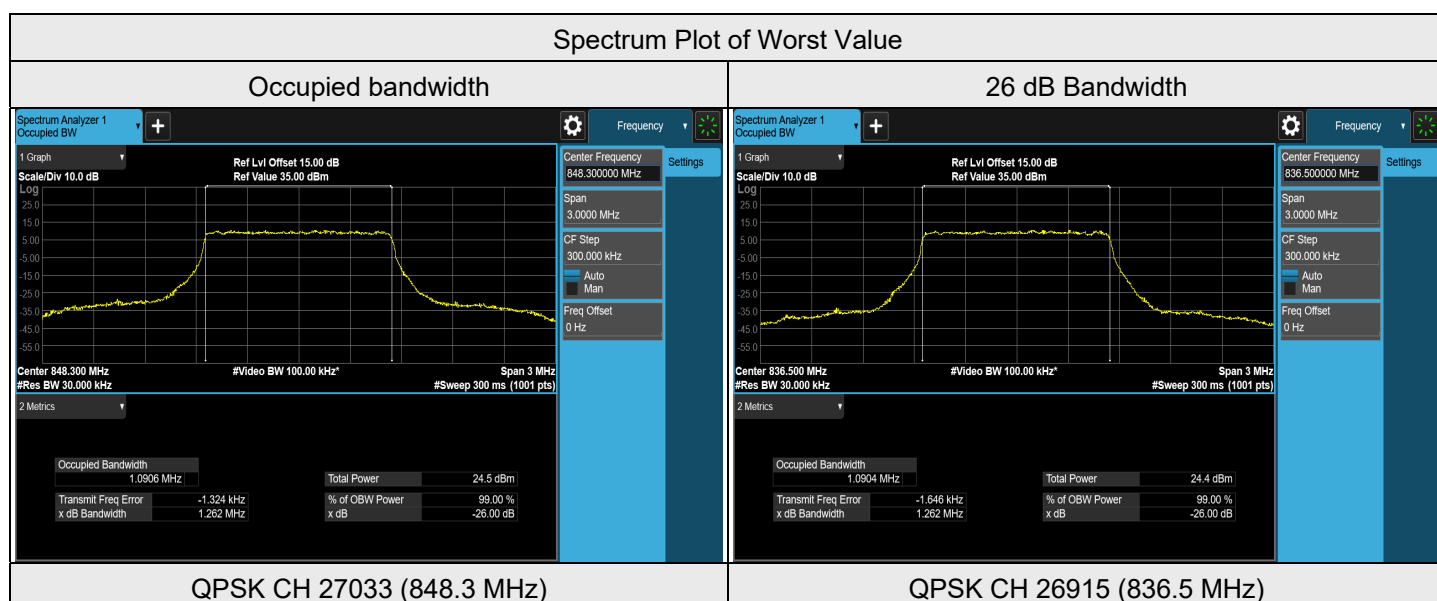
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26740	819	8.9495	9.498
16QAM	26740	819	4.5650	5.095



7.4.10LTE Band 26 (824 MHz ~ 849 MHz)

LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 1.4 MHz

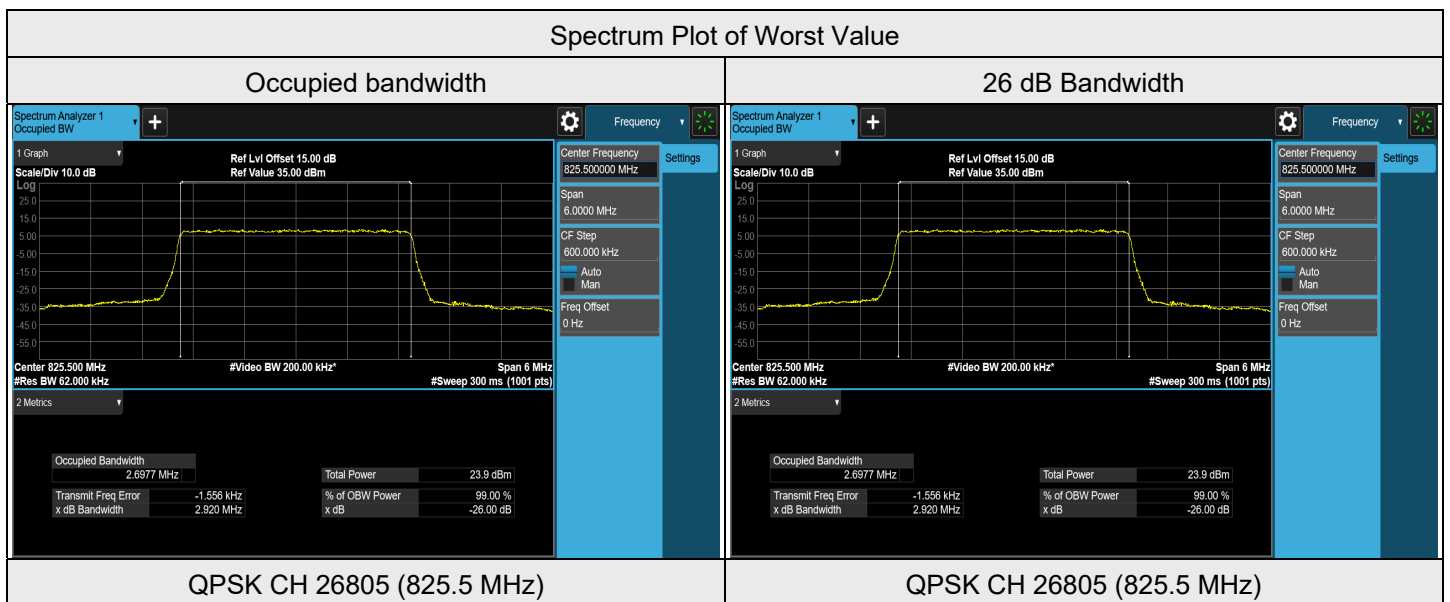
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26797	824.7	1.0874	1.248
QPSK	26915	836.5	1.0904	1.262
QPSK	27033	848.3	1.0906	1.262
16QAM	26797	824.7	1.0882	1.246
16QAM	26915	836.5	1.0878	1.244
16QAM	27033	848.3	1.0873	1.246





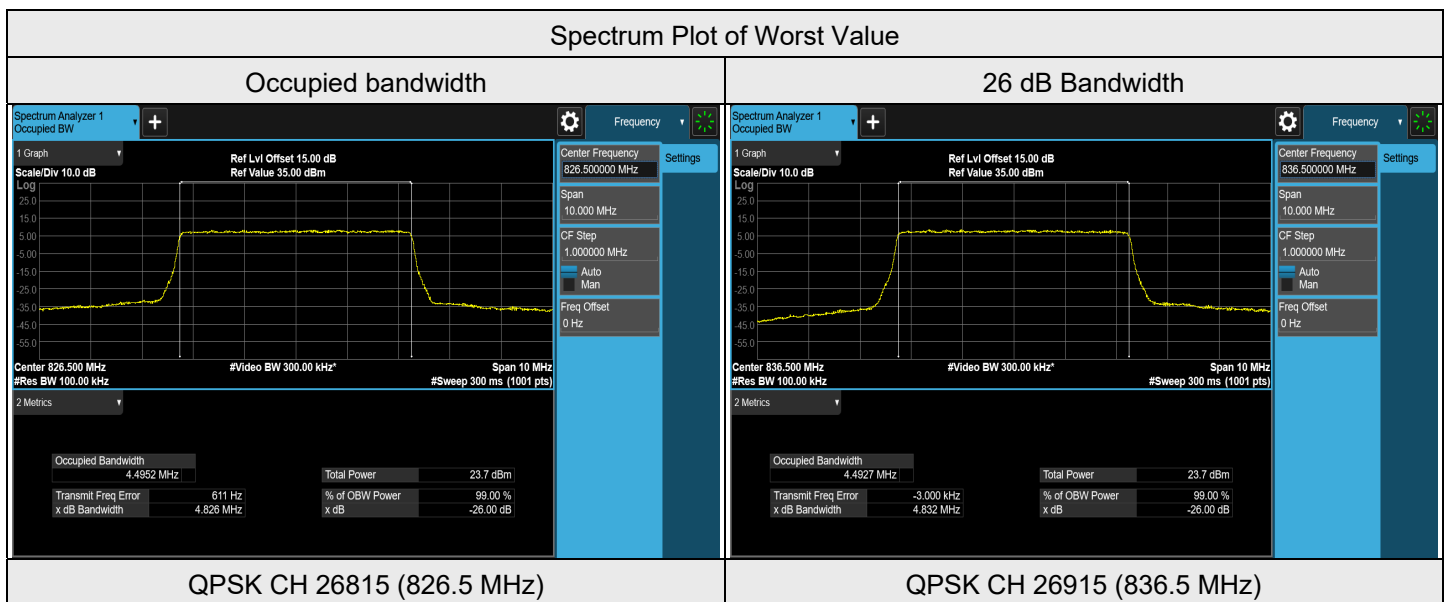
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26805	825.5	2.6977	2.920
QPSK	26915	836.5	2.6958	2.911
QPSK	27025	847.5	2.6953	2.919
16QAM	26805	825.5	2.6968	2.917
16QAM	26915	836.5	2.6976	2.912
16QAM	27025	847.5	2.6963	2.919



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 5 MHz

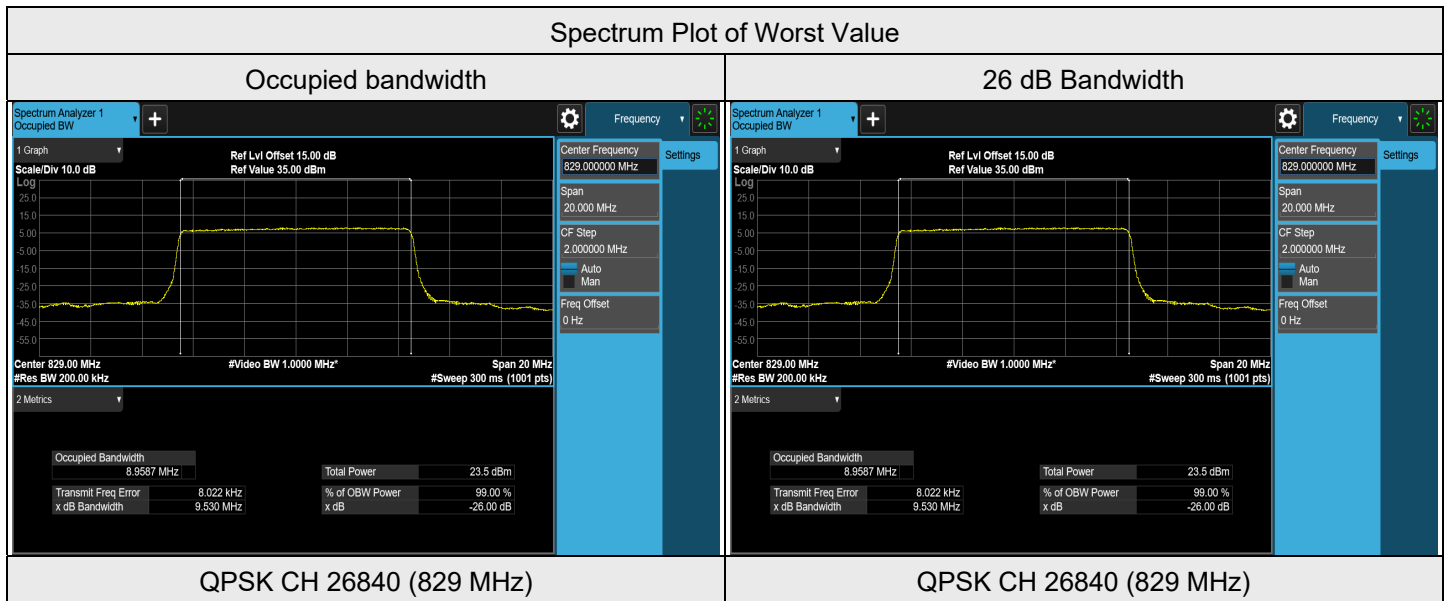
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26815	826.5	4.4952	4.826
QPSK	26915	836.5	4.4927	4.832
QPSK	27015	846.5	4.4870	4.806
16QAM	26815	826.5	4.4903	4.805
16QAM	26915	836.5	4.4876	4.810
16QAM	27015	846.5	4.4831	4.808





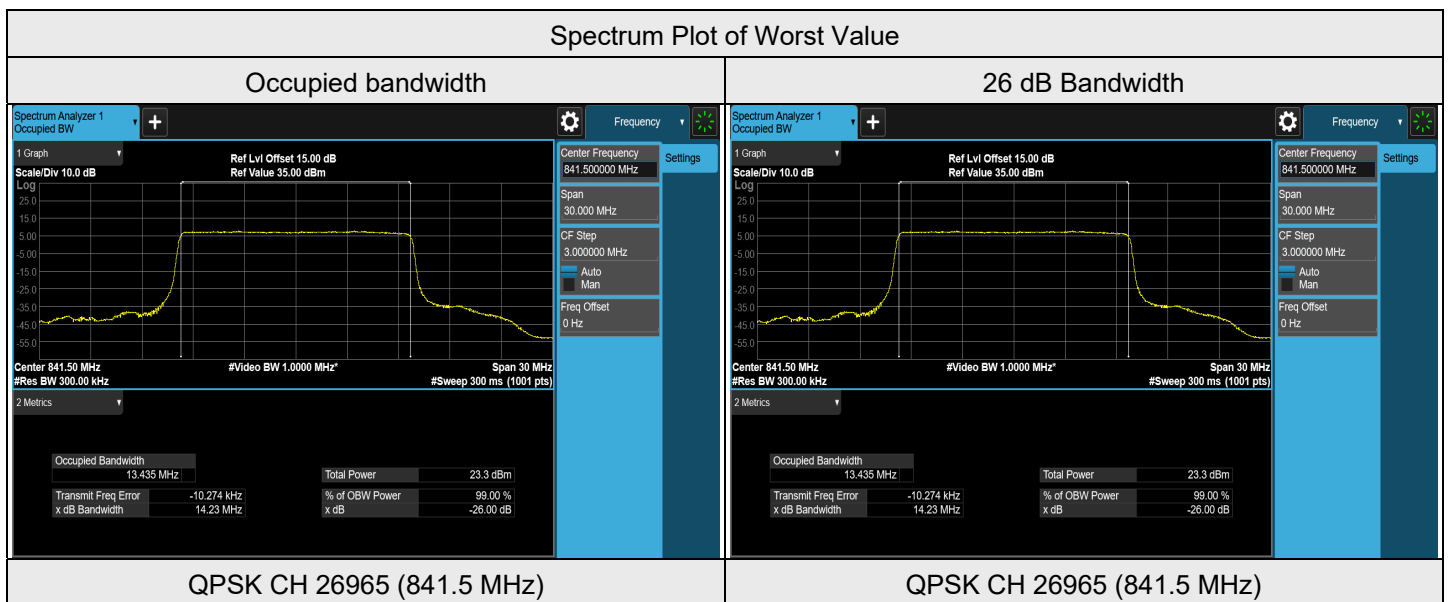
LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26840	829	8.9587	9.530
QPSK	26915	836.5	8.9489	9.499
QPSK	26990	844	8.9483	9.503
16QAM	26840	829	4.5705	5.091
16QAM	26915	836.5	4.5641	5.110
16QAM	26990	844	4.5665	5.111



LTE Band 26 (824 MHz ~ 849 MHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	26865	831.5	13.4256	14.221
QPSK	26915	836.5	13.4238	14.209
QPSK	26965	841.5	13.4345	14.226
16QAM	26865	831.5	4.6672	5.332
16QAM	26915	836.5	4.6665	5.312
16QAM	26965	841.5	4.6784	5.355





7.5 Conducted Spurious Emissions

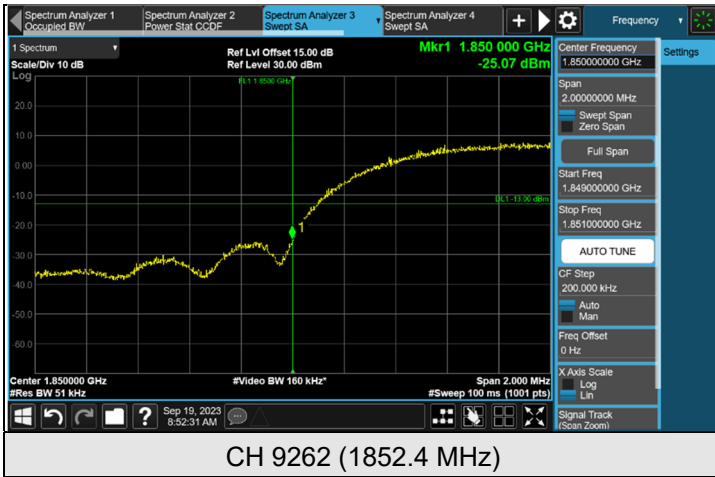
Input Power:	3.6 Vdc	Environmental Conditions:	21°C, 70% RH	Tested By:	Willy Cheng
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7.5.1 WCDMA Band 2

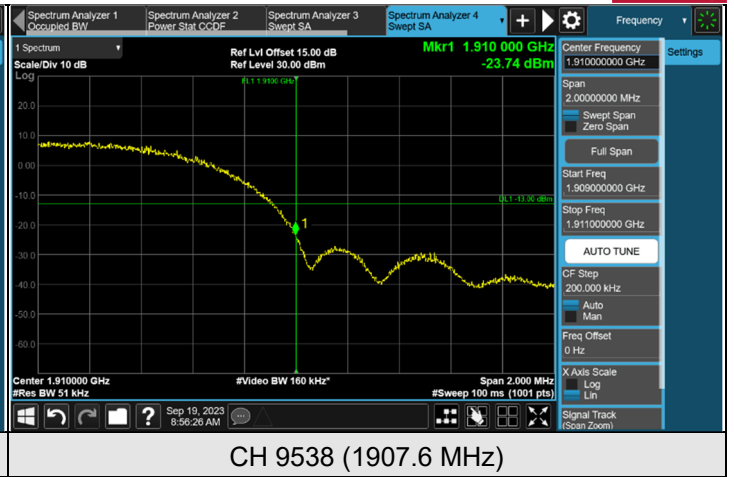
WCDMA



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



CH 9262 (1852.4 MHz)



CH 9538 (1907.6 MHz)

HSDPA



CH 9262 (1852.4 MHz)



CH 9400 (1880 MHz)



CH 9538 (1907.6 MHz)

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

