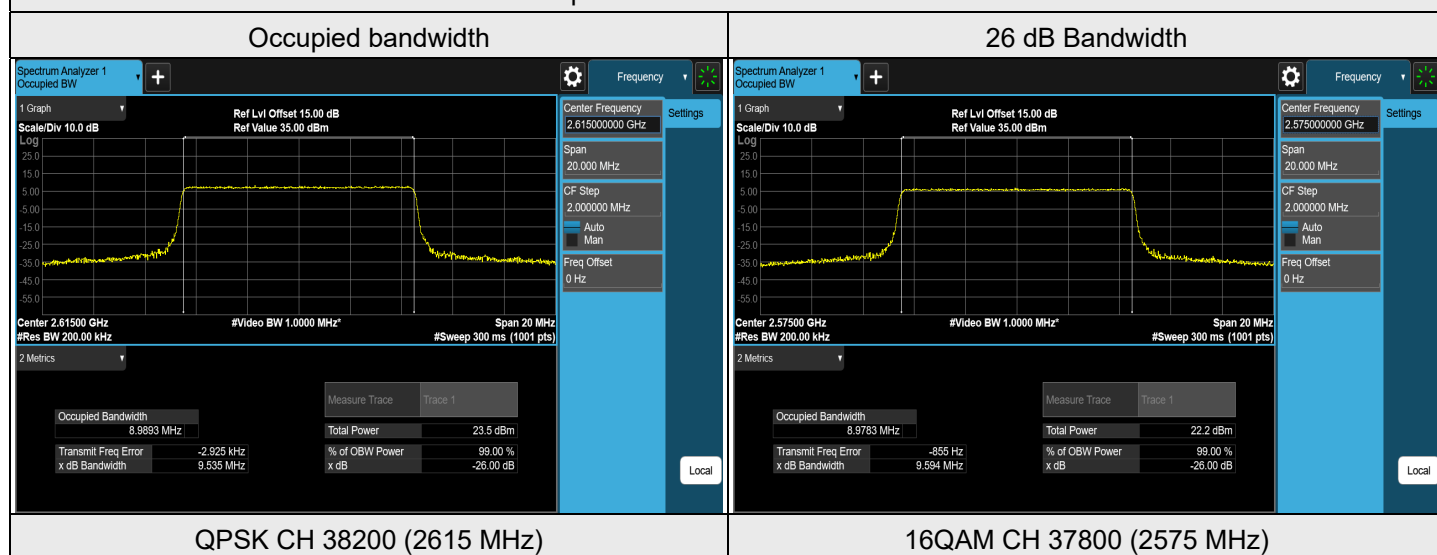


LTE Band 38, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37800	2575	8.9785	9.551
QPSK	38000	2595	8.9856	9.583
QPSK	38200	2615	8.9893	9.535
16QAM	37800	2575	8.9783	9.594
16QAM	38000	2595	8.9753	9.543
16QAM	38200	2615	8.9804	9.529
64QAM	37800	2575	8.9845	9.560
64QAM	38000	2595	8.9781	9.542
64QAM	38200	2615	8.9797	9.542
256QAM	37800	2575	8.9769	9.557
256QAM	38000	2595	8.9767	9.556
256QAM	38200	2615	8.9844	9.530

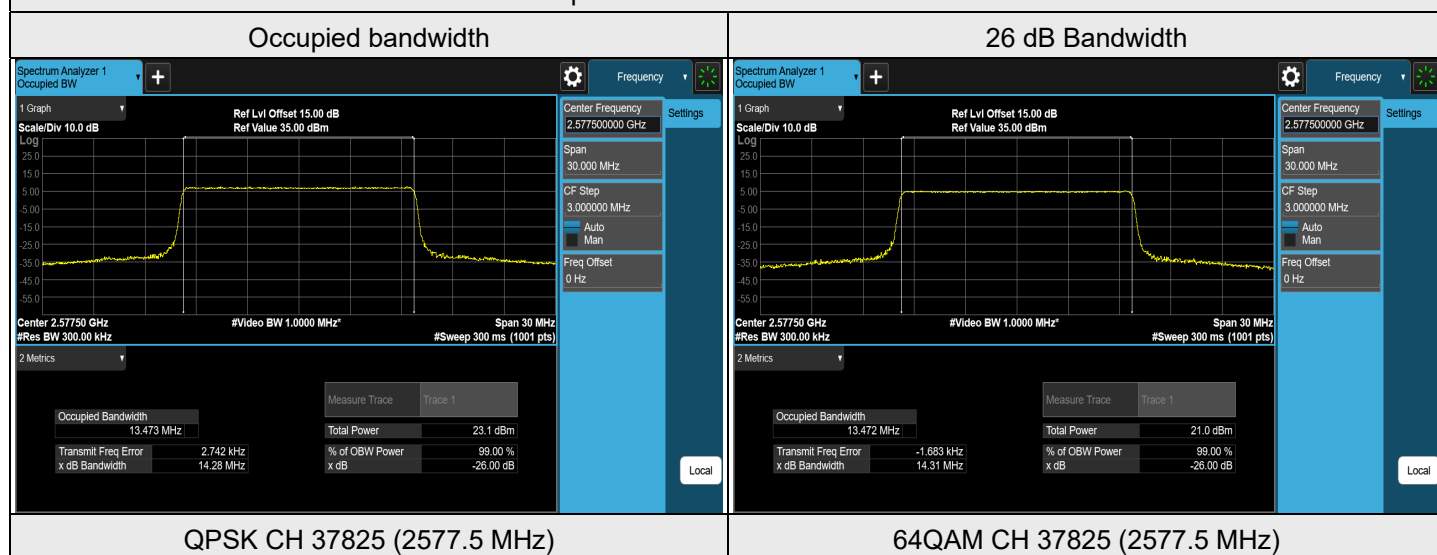
Spectrum Plot of Worst Value



LTE Band 38, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37825	2577.5	13.4731	14.283
QPSK	38000	2595	13.4580	14.267
QPSK	38175	2612.5	13.4718	14.267
16QAM	37825	2577.5	13.4703	14.246
16QAM	38000	2595	13.4627	14.253
16QAM	38175	2612.5	13.4650	14.252
64QAM	37825	2577.5	13.4716	14.306
64QAM	38000	2595	13.4687	14.285
64QAM	38175	2612.5	13.4627	14.283
256QAM	37825	2577.5	13.4526	14.245
256QAM	38000	2595	13.4691	14.263
256QAM	38175	2612.5	13.4678	14.264

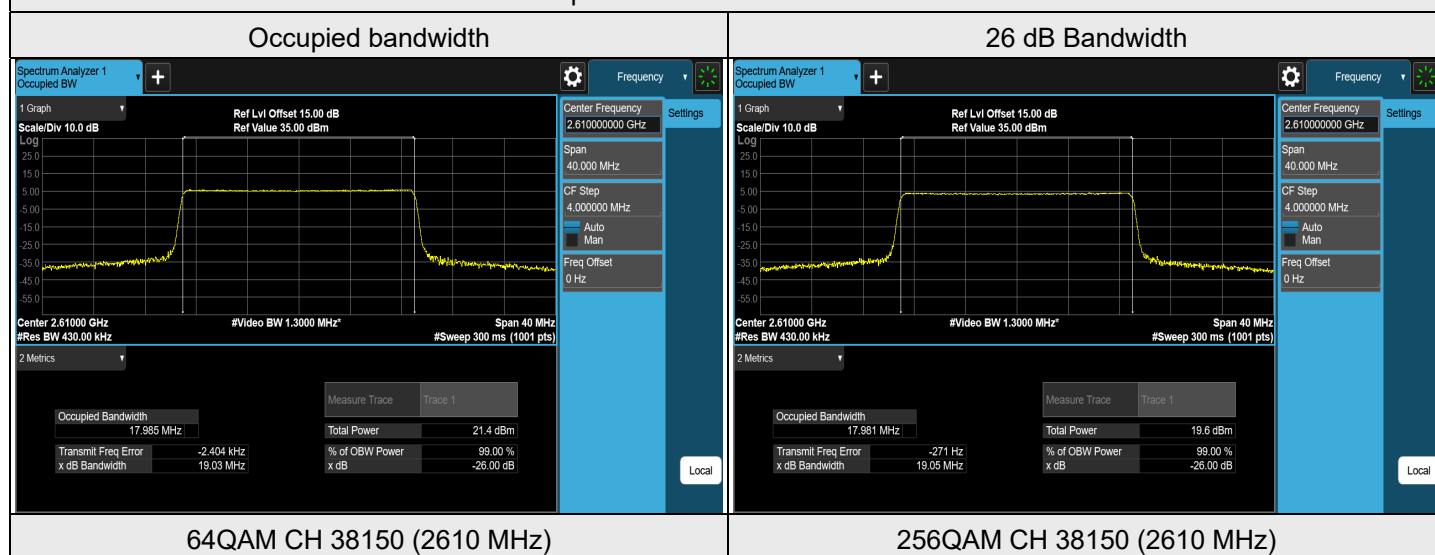
Spectrum Plot of Worst Value



LTE Band 38, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	37850	2580	17.9637	19.047
QPSK	38000	2595	17.9713	19.040
QPSK	38150	2610	17.9808	19.044
16QAM	37850	2580	17.9693	19.044
16QAM	38000	2595	17.9800	19.046
16QAM	38150	2610	17.9685	19.049
64QAM	37850	2580	17.9697	19.036
64QAM	38000	2595	17.9776	19.049
64QAM	38150	2610	17.9853	19.033
256QAM	37850	2580	17.9682	19.041
256QAM	38000	2595	17.9797	19.036
256QAM	38150	2610	17.9814	19.054

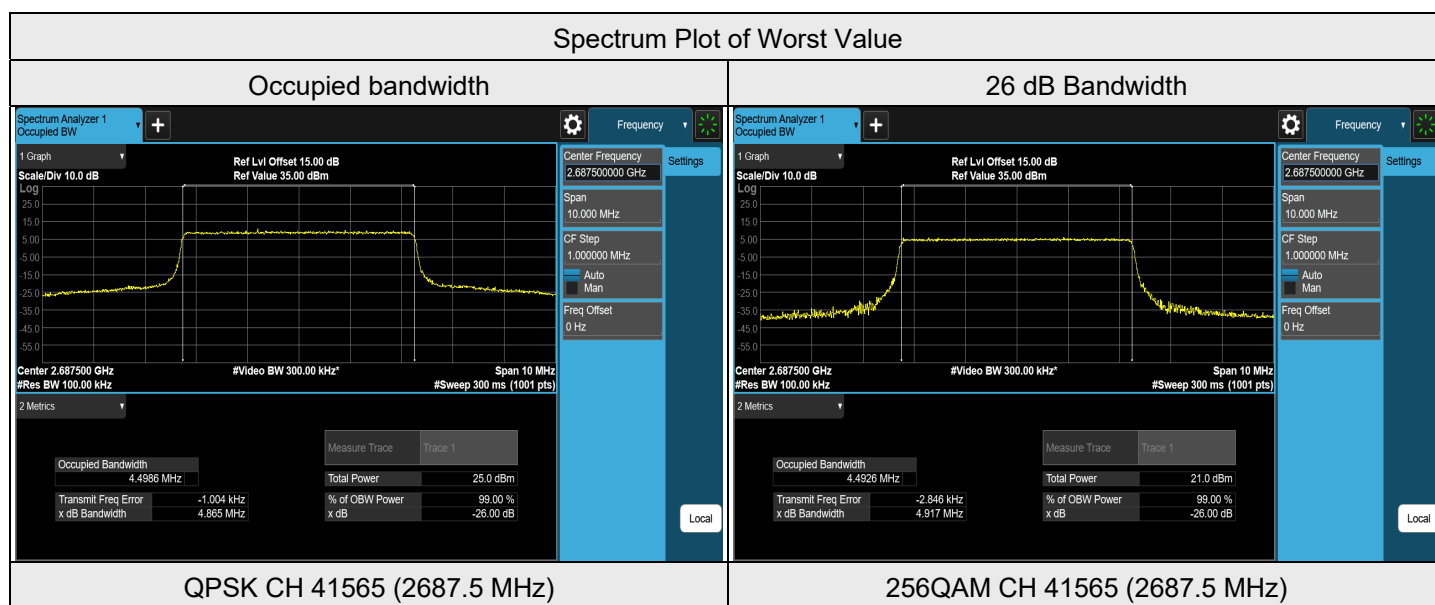
Spectrum Plot of Worst Value



7.4.16LTE Band 41

LTE Band 41, Channel Bandwidth: 5 MHz

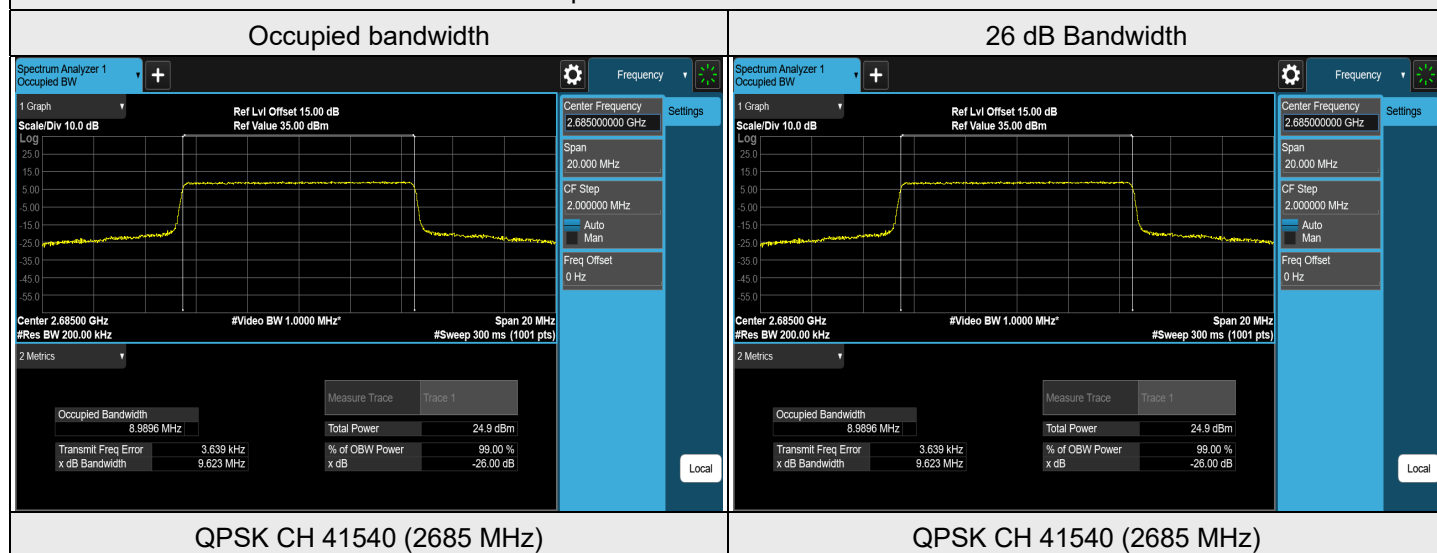
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39675	2498.5	4.4933	4.849
QPSK	40620	2593	4.4984	4.888
QPSK	41565	2687.5	4.4986	4.865
16QAM	39675	2498.5	4.4948	4.839
16QAM	40620	2593	4.4942	4.865
16QAM	41565	2687.5	4.4934	4.893
64QAM	39675	2498.5	4.4926	4.838
64QAM	40620	2593	4.4948	4.869
64QAM	41565	2687.5	4.4894	4.896
256QAM	39675	2498.5	4.4926	4.880
256QAM	40620	2593	4.4958	4.866
256QAM	41565	2687.5	4.4926	4.917



LTE Band 41, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39700	2501	8.9849	9.561
QPSK	40620	2593	8.9864	9.575
QPSK	41540	2685	8.9896	9.623
16QAM	39700	2501	8.9838	9.582
16QAM	40620	2593	8.9842	9.554
16QAM	41540	2685	8.9857	9.561
64QAM	39700	2501	8.9800	9.563
64QAM	40620	2593	8.9812	9.559
64QAM	41540	2685	8.9868	9.543
256QAM	39700	2501	8.9869	9.550
256QAM	40620	2593	8.9839	9.536
256QAM	41540	2685	8.9794	9.534

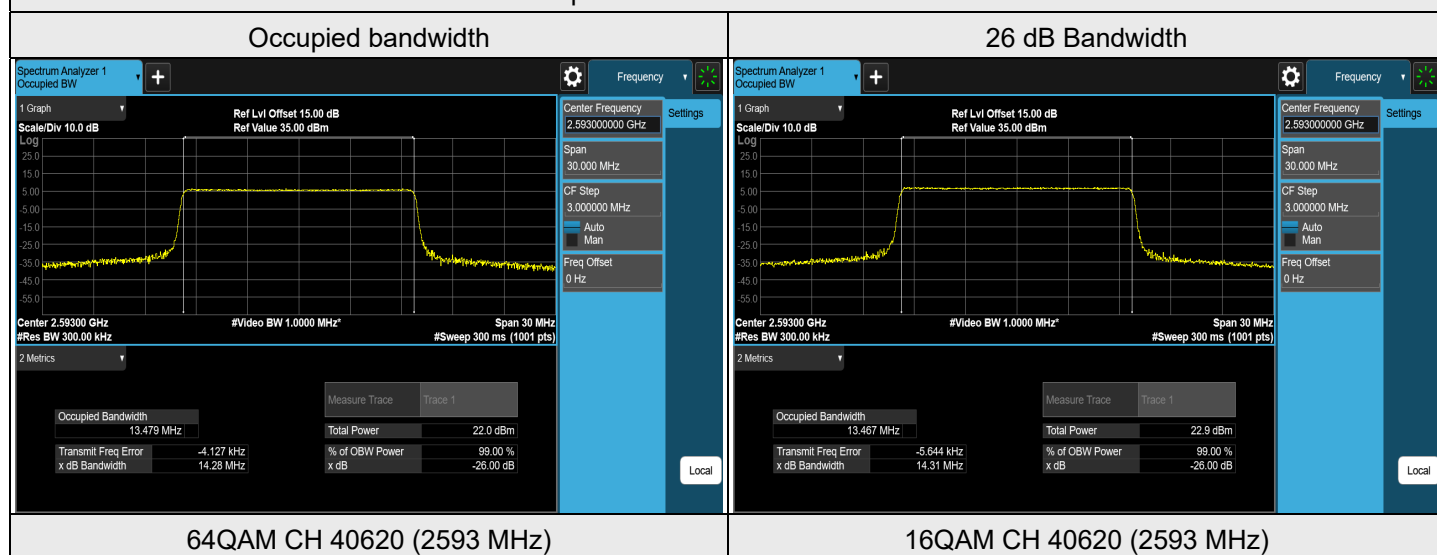
Spectrum Plot of Worst Value



LTE Band 41, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39725	2503.5	13.4664	14.263
QPSK	40620	2593	13.4711	14.269
QPSK	41515	2682.5	13.4713	14.273
16QAM	39725	2503.5	13.4644	14.256
16QAM	40620	2593	13.4674	14.305
16QAM	41515	2682.5	13.4663	14.265
64QAM	39725	2503.5	13.4734	14.271
64QAM	40620	2593	13.4789	14.278
64QAM	41515	2682.5	13.4694	14.262
256QAM	39725	2503.5	13.4692	14.260
256QAM	40620	2593	13.4720	14.265
256QAM	41515	2682.5	13.4635	14.259

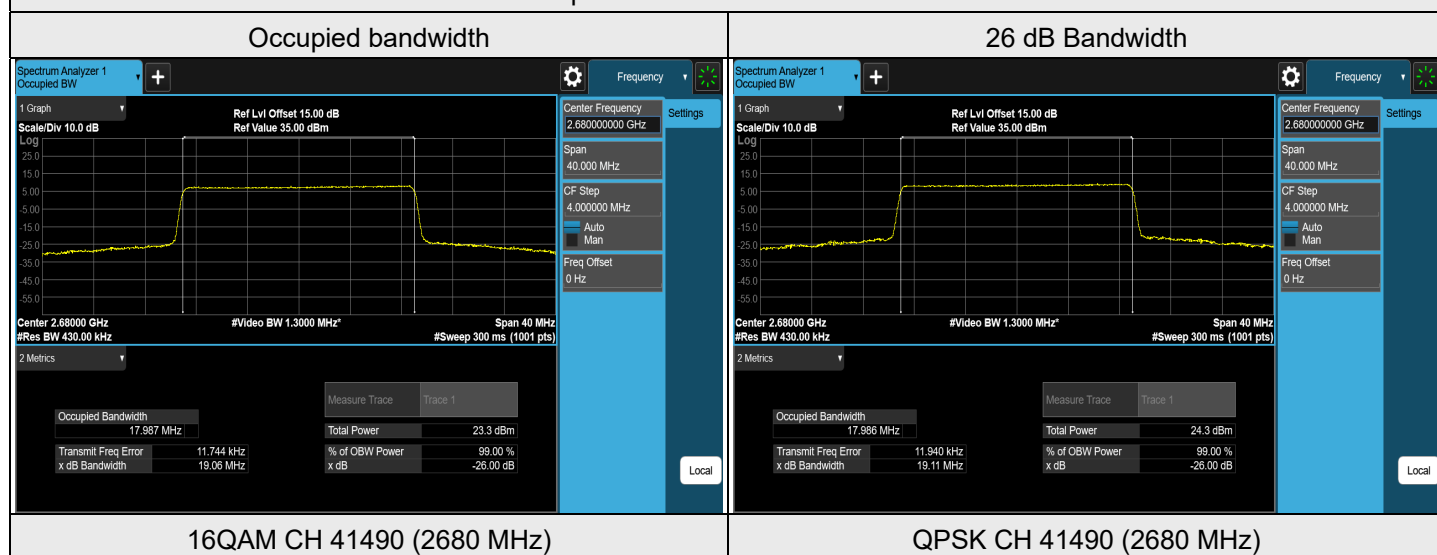
Spectrum Plot of Worst Value



LTE Band 41, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	39750	2506	17.9766	19.031
QPSK	40620	2593	17.9779	19.057
QPSK	41490	2680	17.9860	19.106
16QAM	39750	2506	17.9734	19.036
16QAM	40620	2593	17.9736	19.047
16QAM	41490	2680	17.9870	19.064
64QAM	39750	2506	17.9693	19.042
64QAM	40620	2593	17.9795	19.040
64QAM	41490	2680	17.9800	19.060
256QAM	39750	2506	17.9736	19.028
256QAM	40620	2593	17.9767	19.032
256QAM	41490	2680	17.9774	19.023

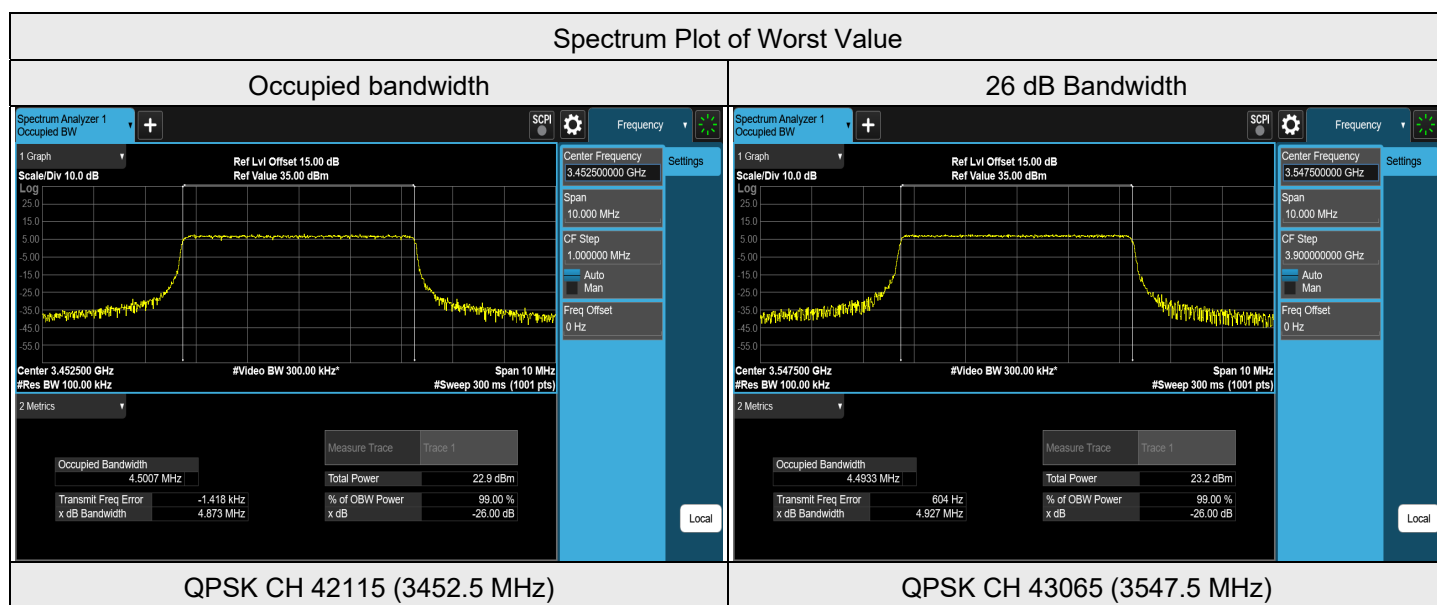
Spectrum Plot of Worst Value



7.4.17LTE Band 42 (3.45 GHz ~ 3.55 GHz)

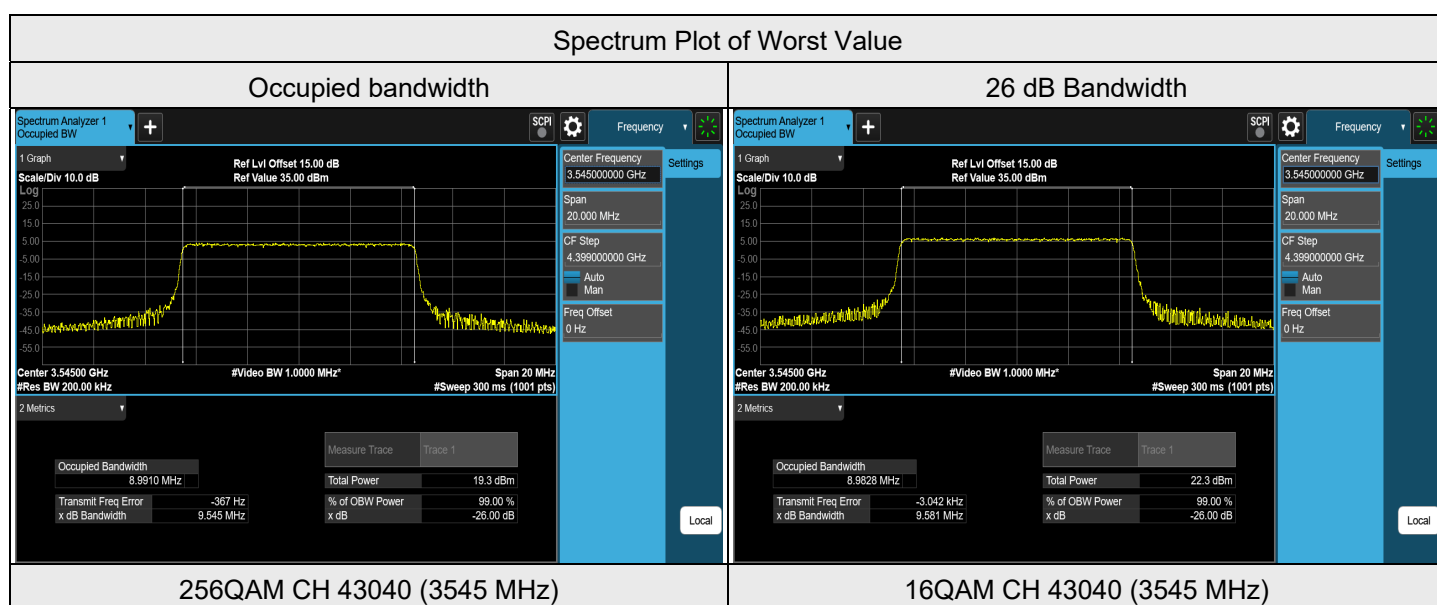
LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	42115	3452.5	4.5007	4.873
QPSK	42590	3500	4.4949	4.893
QPSK	43065	3547.5	4.4933	4.927
16QAM	42115	3452.5	4.4974	4.872
16QAM	42590	3500	4.4962	4.879
16QAM	43065	3547.5	4.4933	4.841
64QAM	42115	3452.5	4.4920	4.867
64QAM	42590	3500	4.4962	4.893
64QAM	43065	3547.5	4.4940	4.896
256QAM	42115	3452.5	4.4999	4.884
256QAM	42590	3500	4.5006	4.882
256QAM	43065	3547.5	4.4926	4.788



LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 10 MHz

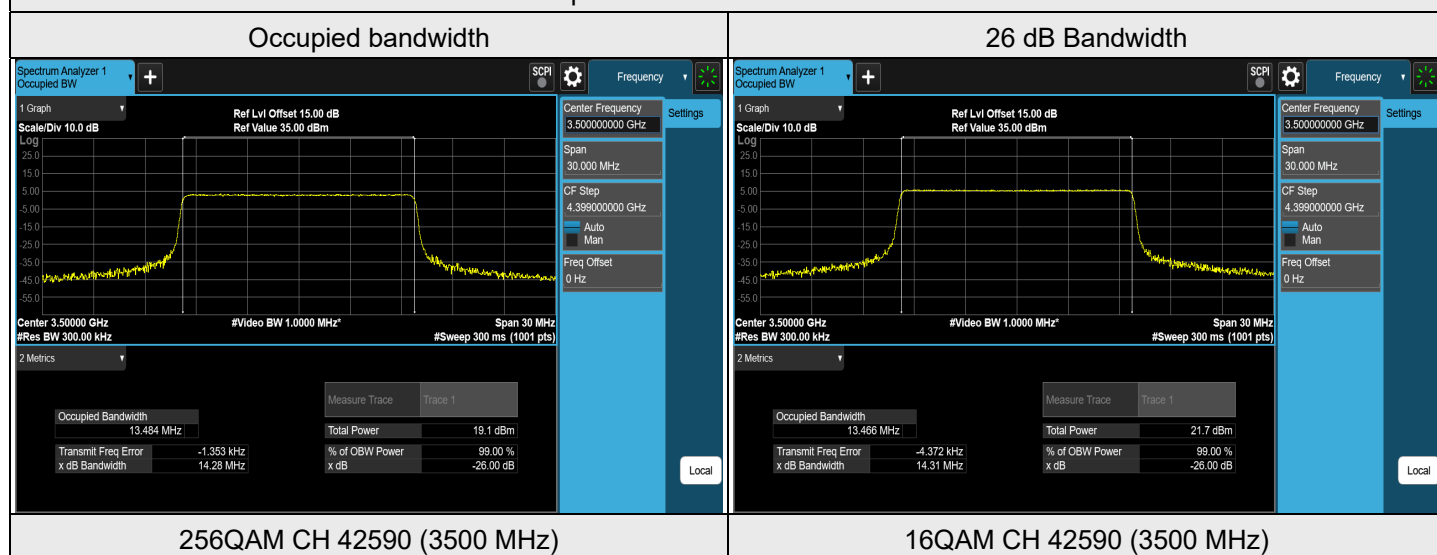
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	42140	3455	8.9825	9.527
QPSK	42590	3500	8.9902	9.533
QPSK	43040	3545	8.9882	9.553
16QAM	42140	3455	8.9825	9.560
16QAM	42590	3500	8.9834	9.576
16QAM	43040	3545	8.9828	9.581
64QAM	42140	3455	8.9887	9.559
64QAM	42590	3500	8.9871	9.538
64QAM	43040	3545	8.9750	9.569
256QAM	42140	3455	8.9736	9.567
256QAM	42590	3500	8.9827	9.527
256QAM	43040	3545	8.9910	9.545



LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 15 MHz

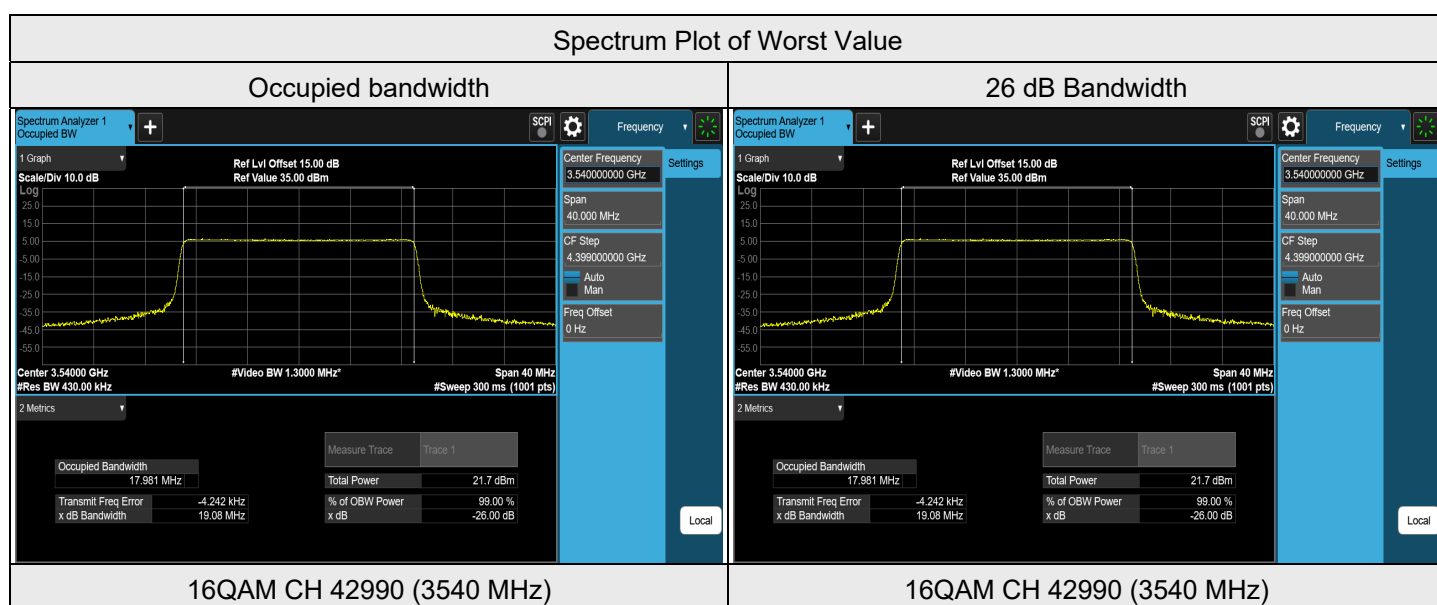
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	42165	3457.5	13.4621	14.252
QPSK	42590	3500	13.4664	14.261
QPSK	43015	3542.5	13.4646	14.260
16QAM	42165	3457.5	13.4706	14.280
16QAM	42590	3500	13.4656	14.312
16QAM	43015	3542.5	13.4597	14.262
64QAM	42165	3457.5	13.4690	14.264
64QAM	42590	3500	13.4681	14.285
64QAM	43015	3542.5	13.4667	14.282
256QAM	42165	3457.5	13.4681	14.258
256QAM	42590	3500	13.4840	14.277
256QAM	43015	3542.5	13.4660	14.263

Spectrum Plot of Worst Value



LTE Band 42 (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 20 MHz

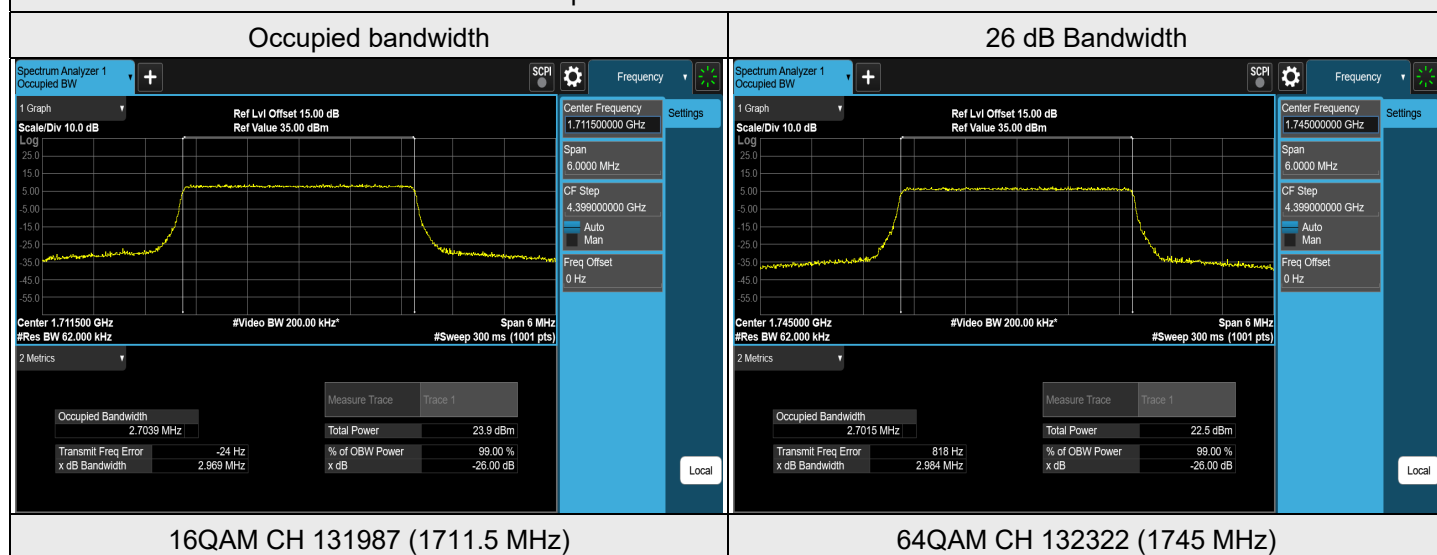
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	42190	3460	17.9732	19.047
QPSK	42590	3500	17.9737	19.065
QPSK	42990	3540	17.9807	19.078
16QAM	42190	3460	17.9637	19.052
16QAM	42590	3500	17.9756	19.075
16QAM	42990	3540	17.9812	19.079
64QAM	42190	3460	17.9773	19.057
64QAM	42590	3500	17.9677	19.032
64QAM	42990	3540	17.9714	19.053
256QAM	42190	3460	17.9715	19.061
256QAM	42590	3500	17.9647	19.048
256QAM	42990	3540	17.9708	19.051



LTE Band 66, Channel Bandwidth: 3 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131987	1711.5	2.6971	2.879
QPSK	132322	1745	2.7011	2.965
QPSK	132657	1778.5	2.7016	2.950
16QAM	131987	1711.5	2.7039	2.969
16QAM	132322	1745	2.6993	2.946
16QAM	132657	1778.5	2.6999	2.965
64QAM	131987	1711.5	2.7019	2.973
64QAM	132322	1745	2.7015	2.984
64QAM	132657	1778.5	2.7005	2.953
256QAM	131987	1711.5	2.7011	2.938
256QAM	132322	1745	2.7008	2.956
256QAM	132657	1778.5	2.6994	2.953

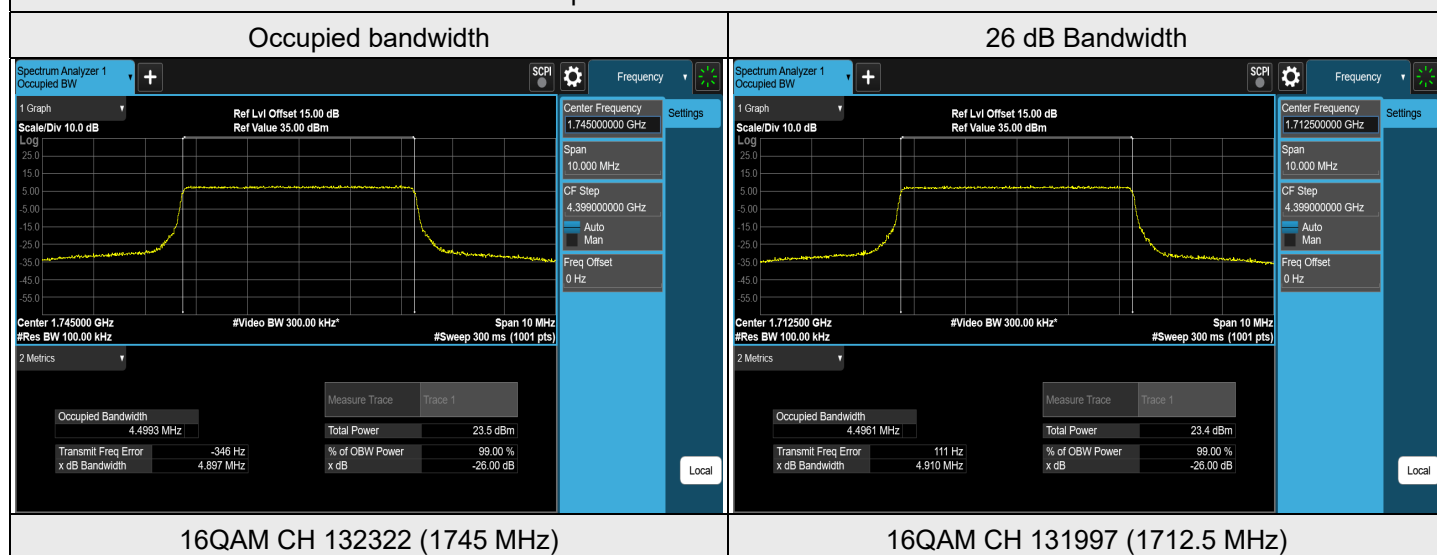
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	131997	1712.5	4.4959	4.889
QPSK	132322	1745	4.4934	4.886
QPSK	132647	1777.5	4.4959	4.894
16QAM	131997	1712.5	4.4961	4.910
16QAM	132322	1745	4.4993	4.897
16QAM	132647	1777.5	4.4965	4.859
64QAM	131997	1712.5	4.4953	4.865
64QAM	132322	1745	4.4912	4.881
64QAM	132647	1777.5	4.4940	4.903
256QAM	131997	1712.5	4.4958	4.861
256QAM	132322	1745	4.4921	4.841
256QAM	132647	1777.5	4.4990	4.895

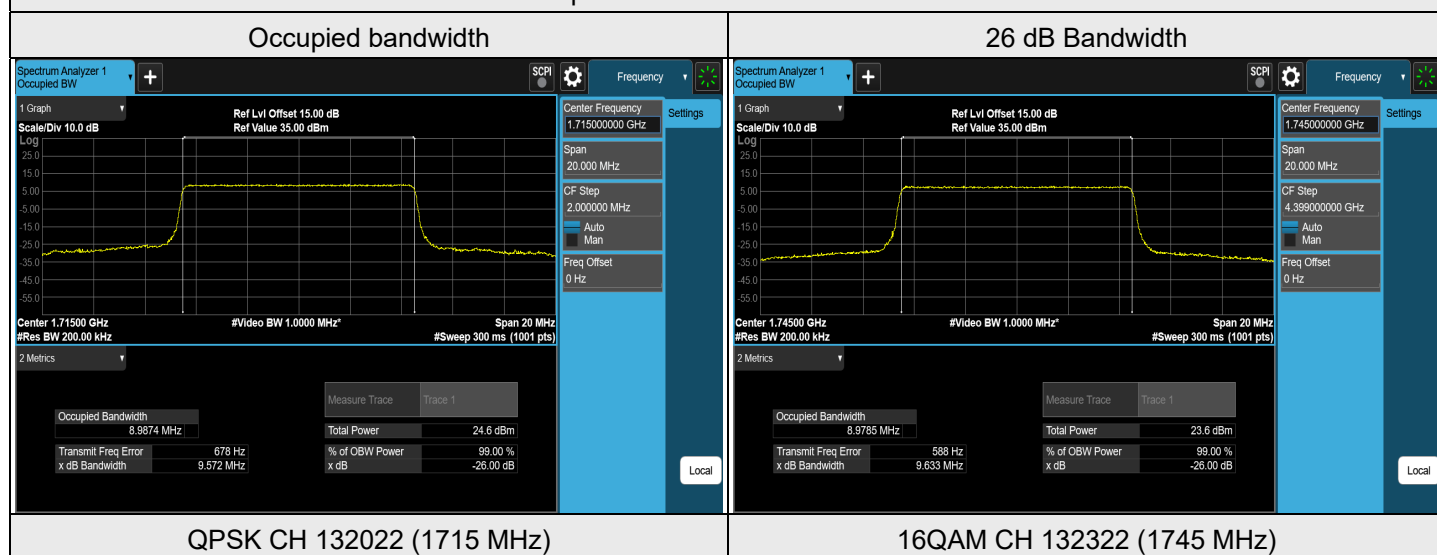
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132022	1715	8.9874	9.572
QPSK	132322	1745	8.9840	9.586
QPSK	132622	1775	8.9844	9.597
16QAM	132022	1715	8.9819	9.591
16QAM	132322	1745	8.9785	9.633
16QAM	132622	1775	8.9866	9.550
64QAM	132022	1715	8.9841	9.549
64QAM	132322	1745	8.9855	9.556
64QAM	132622	1775	8.9849	9.578
256QAM	132022	1715	8.9852	9.575
256QAM	132322	1745	8.9840	9.568
256QAM	132622	1775	8.9874	9.577

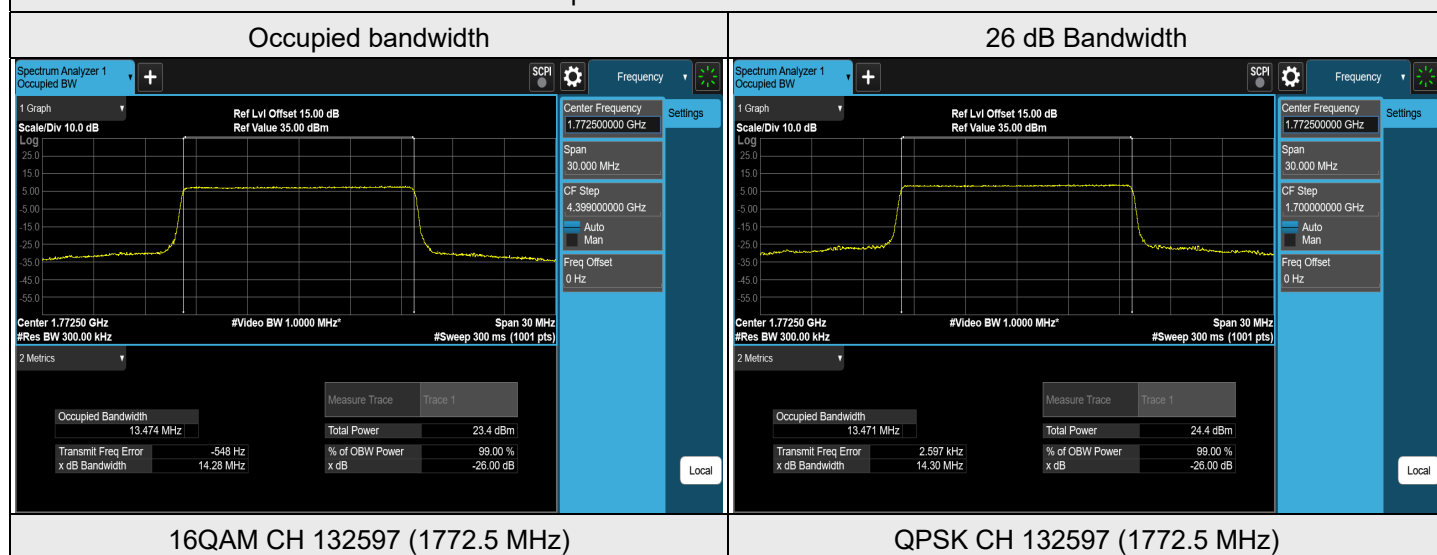
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132047	1717.5	13.4679	14.278
QPSK	132322	1745	13.4686	14.294
QPSK	132597	1772.5	13.4715	14.295
16QAM	132047	1717.5	13.4703	14.275
16QAM	132322	1745	13.4723	14.281
16QAM	132597	1772.5	13.4743	14.277
64QAM	132047	1717.5	13.4692	14.258
64QAM	132322	1745	13.4634	14.272
64QAM	132597	1772.5	13.4695	14.267
256QAM	132047	1717.5	13.4731	14.263
256QAM	132322	1745	13.4708	14.268
256QAM	132597	1772.5	13.4706	14.254

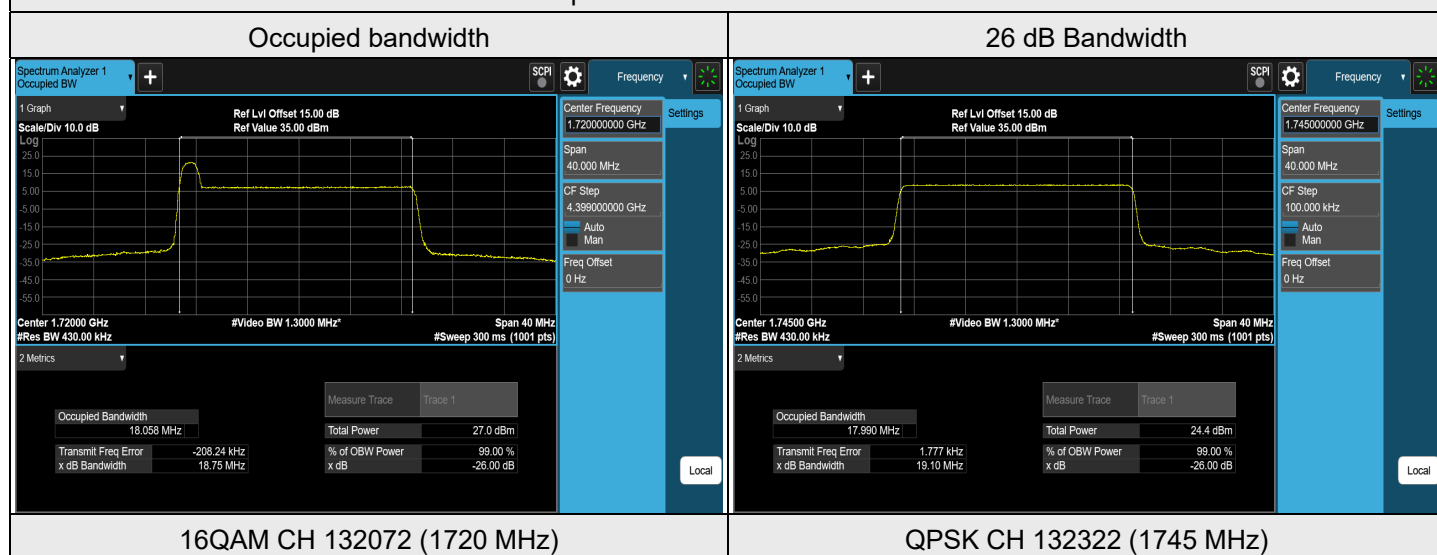
Spectrum Plot of Worst Value



LTE Band 66, Channel Bandwidth: 20 MHz

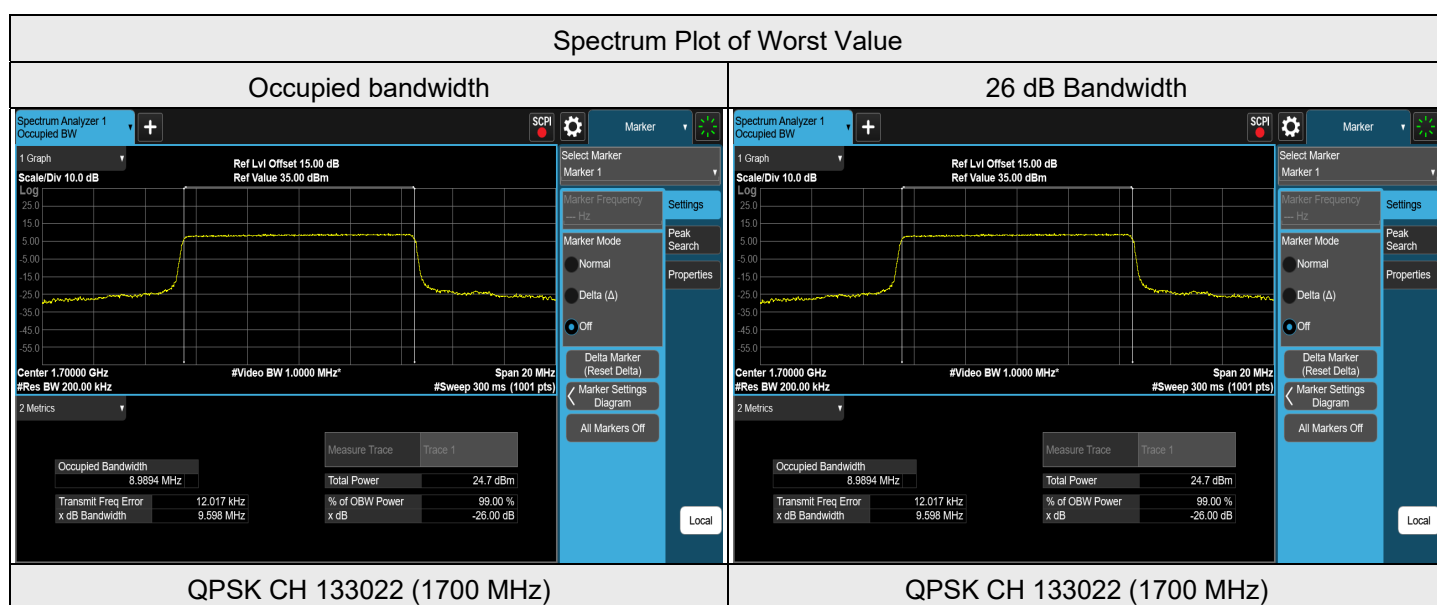
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	132072	1720	17.9938	19.077
QPSK	132322	1745	17.9905	19.104
QPSK	132572	1770	18.0043	19.101
16QAM	132072	1720	18.0582	18.750
16QAM	132322	1745	17.9691	19.051
16QAM	132572	1770	17.9916	19.042
64QAM	132072	1720	17.9791	19.054
64QAM	132322	1745	17.9729	19.059
64QAM	132572	1770	17.9877	19.064
256QAM	132072	1720	17.9764	19.067
256QAM	132322	1745	17.9598	19.055
256QAM	132572	1770	17.9987	19.056

Spectrum Plot of Worst Value



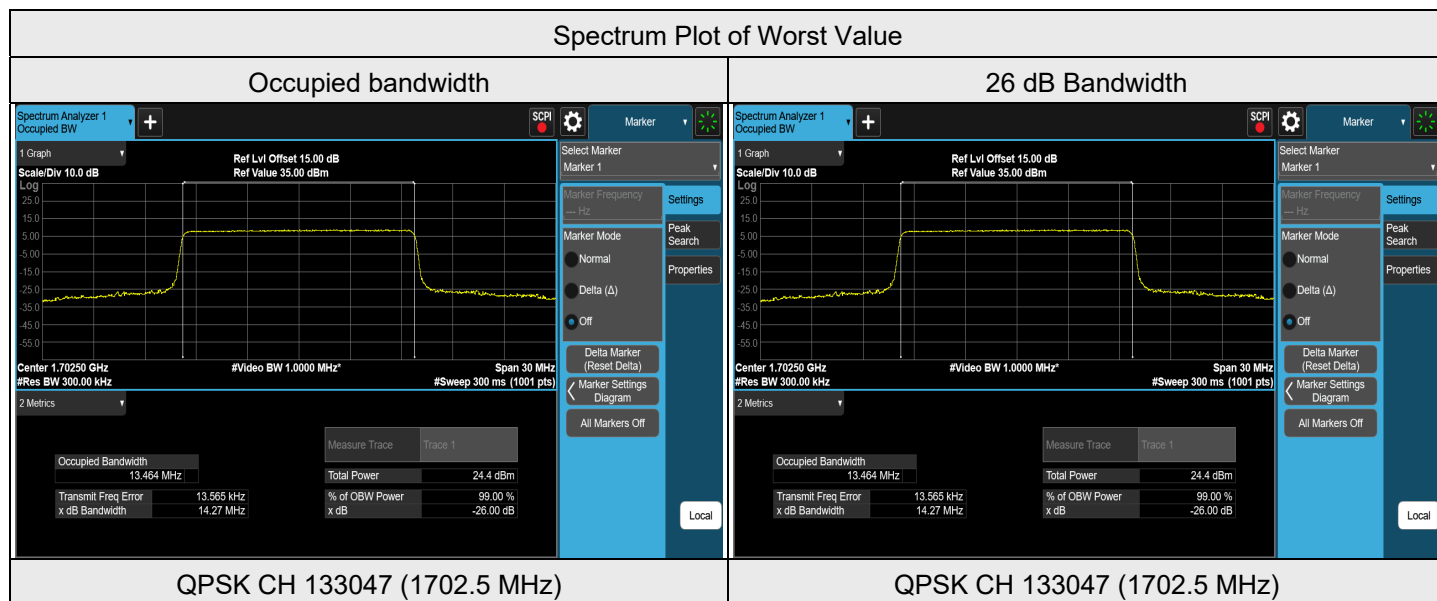
LTE Band 70, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133022	1700	8.9894	9.598
QPSK	133047	1702.5	8.9831	9.551
QPSK	133072	1705	8.9892	9.569
16QAM	133022	1700	8.9794	9.573
16QAM	133047	1702.5	8.9803	9.566
16QAM	133072	1705	8.9868	9.576
64QAM	133022	1700	8.9854	9.565
64QAM	133047	1702.5	8.9804	9.558
64QAM	133072	1705	8.9805	9.571
256QAM	133022	1700	8.9801	9.569
256QAM	133047	1702.5	8.9740	9.558
256QAM	133072	1705	8.9831	9.534



LTE Band 70, Channel Bandwidth: 15 MHz

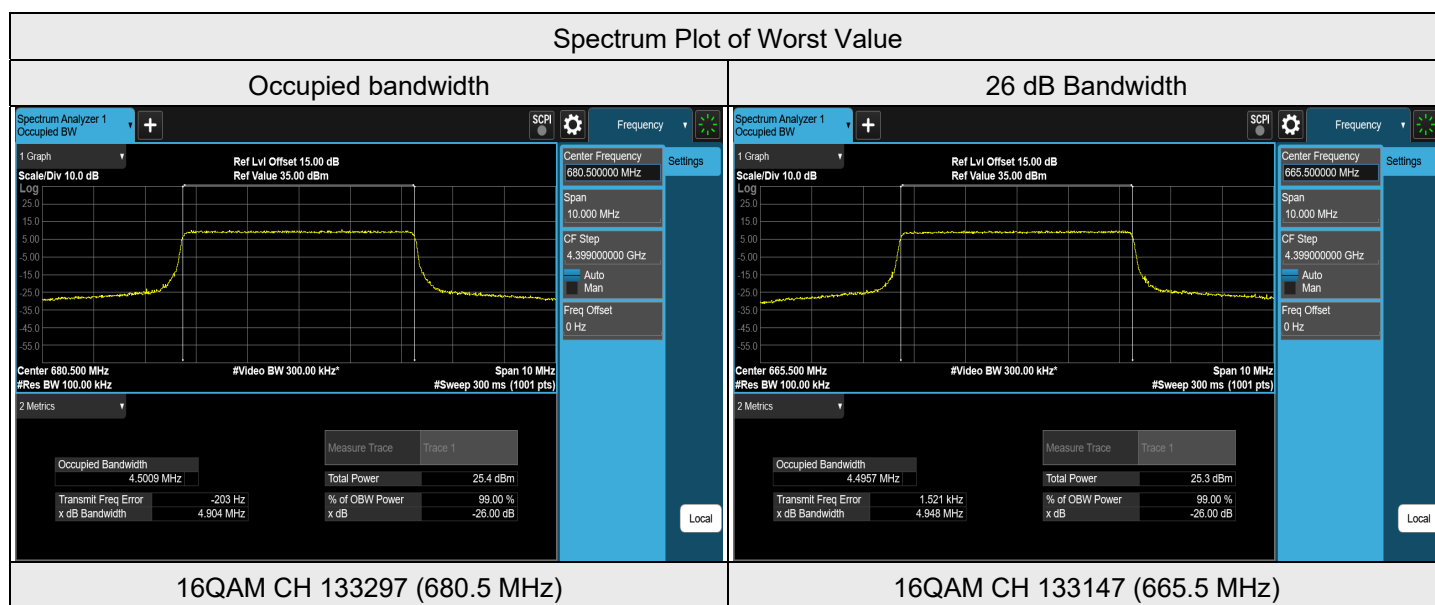
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133047	1702.5	13.4639	14.268
16QAM	133047	1702.5	13.4522	14.267
64QAM	133047	1702.5	13.4629	14.251
256QAM	133047	1702.5	13.4165	14.199



7.4.20LTE Band 71

LTE Band 71, Channel Bandwidth: 5 MHz

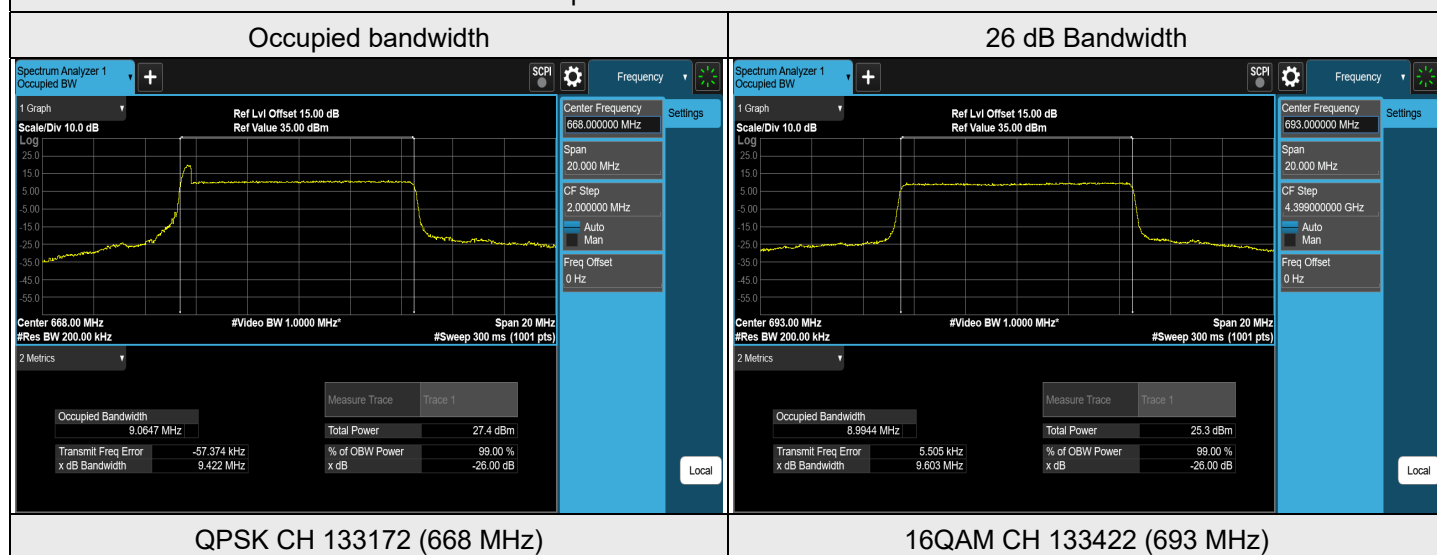
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133147	665.5	4.4980	4.931
QPSK	133297	680.5	4.4993	4.915
QPSK	133447	695.5	4.5004	4.909
16QAM	133147	665.5	4.4957	4.948
16QAM	133297	680.5	4.5009	4.904
16QAM	133447	695.5	4.4969	4.943
64QAM	133147	665.5	4.4952	4.942
64QAM	133297	680.5	4.4944	4.885
64QAM	133447	695.5	4.5003	4.882
256QAM	133147	665.5	4.4953	4.885
256QAM	133297	680.5	4.4984	4.905
256QAM	133447	695.5	4.4945	4.878



LTE Band 71, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133172	668	9.0647	9.422
QPSK	133297	680.5	8.9762	9.535
QPSK	133422	693	8.9885	9.575
16QAM	133172	668	8.9756	9.586
16QAM	133297	680.5	8.9734	9.569
16QAM	133422	693	8.9944	9.603
64QAM	133172	668	8.9798	9.564
64QAM	133297	680.5	8.9787	9.561
64QAM	133422	693	8.9915	9.565
256QAM	133172	668	8.9789	9.600
256QAM	133297	680.5	8.9741	9.542
256QAM	133422	693	8.9873	9.569

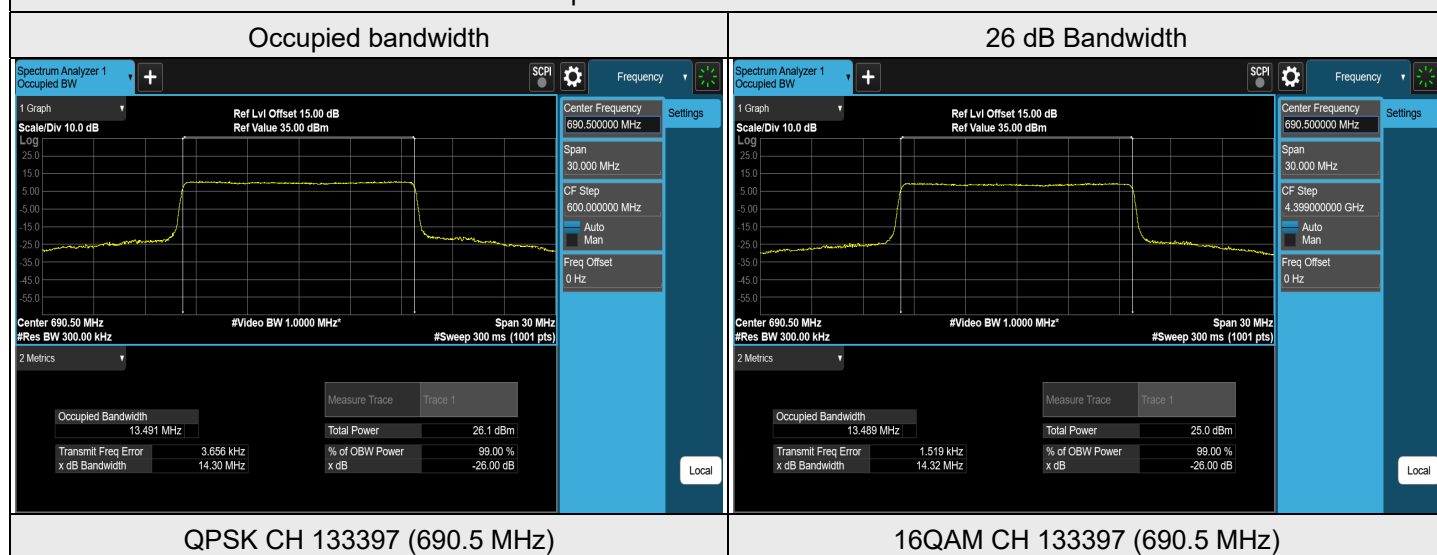
Spectrum Plot of Worst Value



LTE Band 71, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133197	670.5	13.4575	14.261
QPSK	133297	680.5	13.4477	14.265
QPSK	133397	690.5	13.4911	14.296
16QAM	133197	670.5	13.4602	14.290
16QAM	133297	680.5	13.4380	14.260
16QAM	133397	690.5	13.4886	14.324
64QAM	133197	670.5	13.4615	14.274
64QAM	133297	680.5	13.4366	14.257
64QAM	133397	690.5	13.4888	14.291
256QAM	133197	670.5	13.4612	14.268
256QAM	133297	680.5	13.4491	14.280
256QAM	133397	690.5	13.4873	14.280

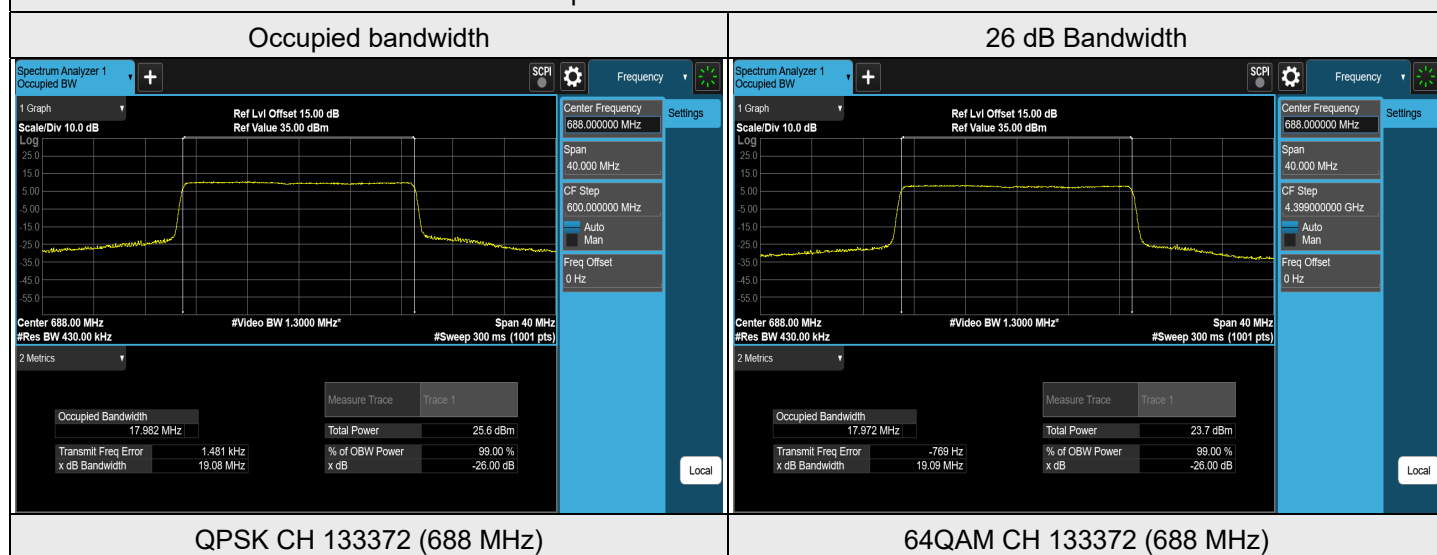
Spectrum Plot of Worst Value



LTE Band 71, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	133222	673	17.9489	19.065
QPSK	133297	680.5	17.9319	19.040
QPSK	133372	688	17.9817	19.084
16QAM	133222	673	17.9448	19.049
16QAM	133297	680.5	17.9444	19.044
16QAM	133372	688	17.9745	19.078
64QAM	133222	673	17.9529	19.040
64QAM	133297	680.5	17.9493	19.050
64QAM	133372	688	17.9720	19.089
256QAM	133222	673	17.9420	19.049
256QAM	133297	680.5	17.9390	19.044
256QAM	133372	688	17.9808	19.085

Spectrum Plot of Worst Value



7.5 Conducted Spurious Emissions

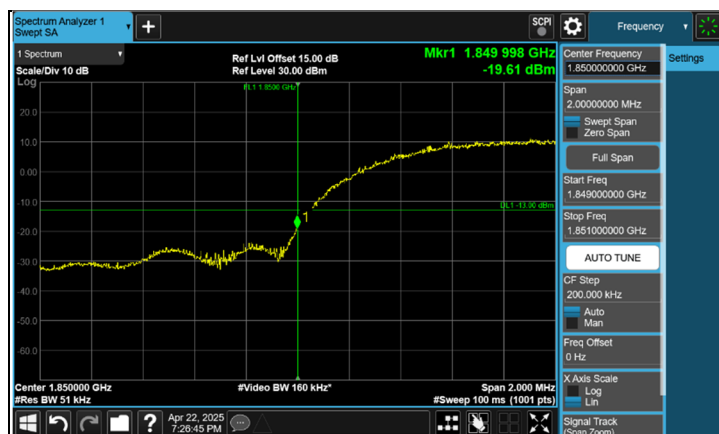
Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 66% RH	Tested By:	James Yang
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7.5.1 WCDMA Band 2

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.



CH 9262 (1852.4 MHz)



CH 9538 (1907.6 MHz)