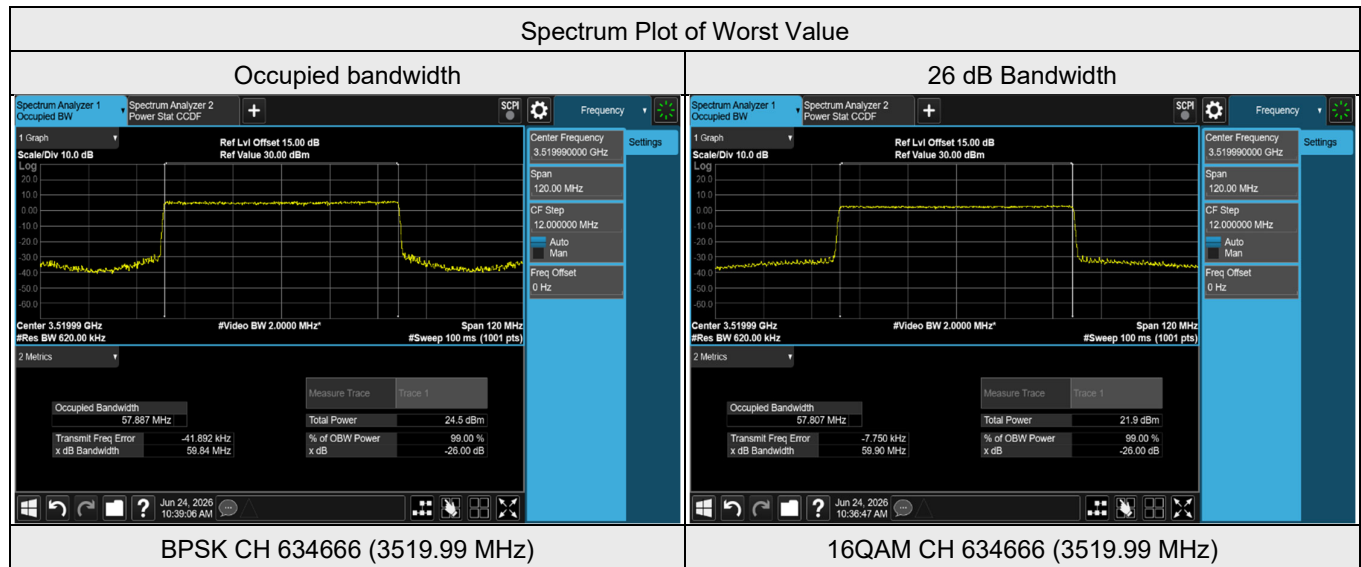


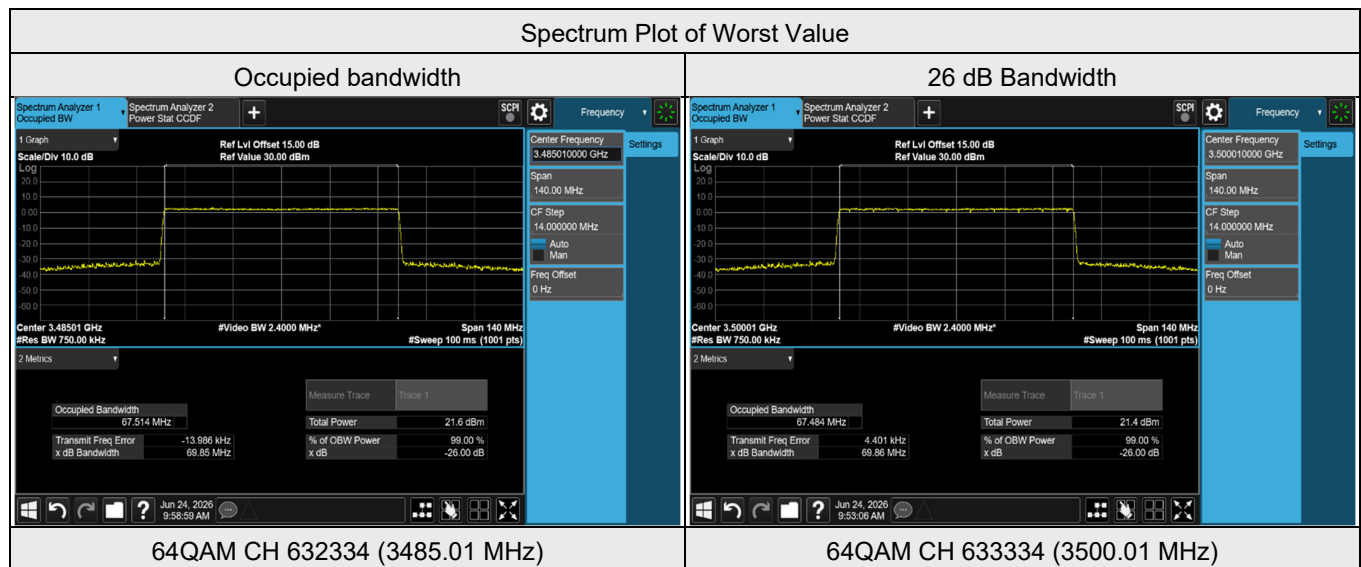
NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632000	3480	57.803	59.86
BPSK	633334	3500.01	57.884	59.80
BPSK	634666	3519.99	57.887	59.84
QPSK	632000	3480	57.820	59.87
QPSK	633334	3500.01	57.835	59.81
QPSK	634666	3519.99	57.850	59.87
16QAM	632000	3480	57.815	59.84
16QAM	633334	3500.01	57.812	59.85
16QAM	634666	3519.99	57.807	59.90
64QAM	632000	3480	57.851	59.89
64QAM	633334	3500.01	57.859	59.86
64QAM	634666	3519.99	57.871	59.82
256QAM	632000	3480	57.852	59.83
256QAM	633334	3500.01	57.813	59.84
256QAM	634666	3519.99	57.841	59.84



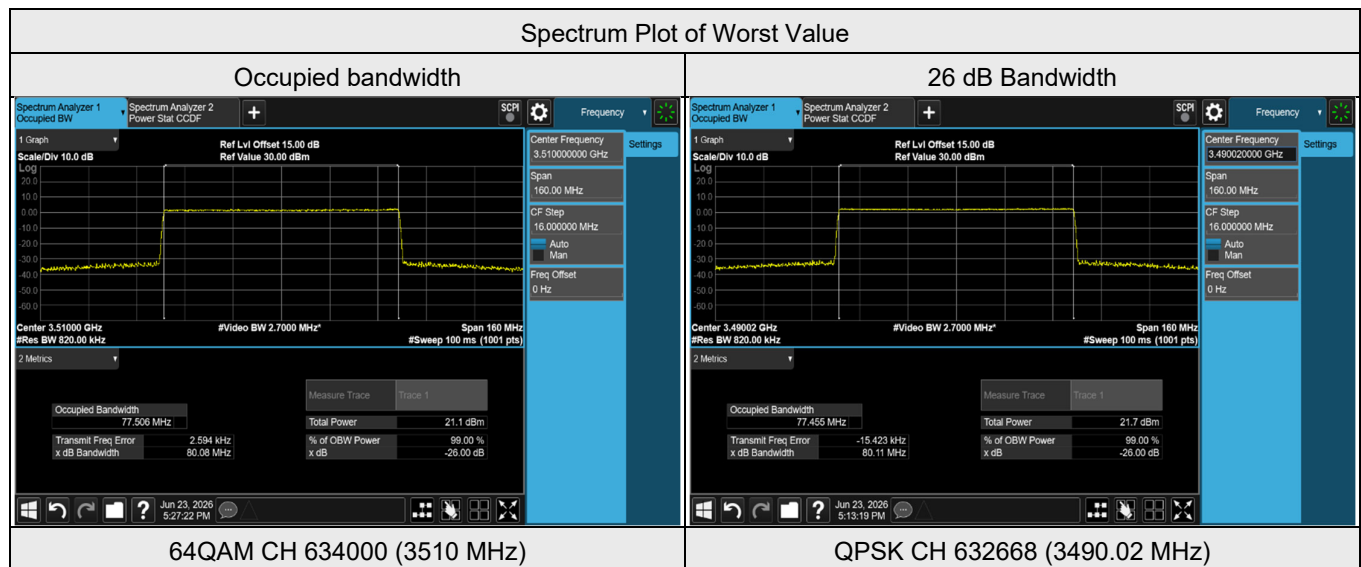
NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632334	3485.01	64.325	66.55
BPSK	633334	3500.01	64.271	66.57
BPSK	634332	3514.98	64.309	66.57
QPSK	632334	3485.01	67.465	69.85
QPSK	633334	3500.01	67.447	69.84
QPSK	634332	3514.98	67.474	69.86
16QAM	632334	3485.01	67.453	69.82
16QAM	633334	3500.01	67.459	69.84
16QAM	634332	3514.98	67.461	69.82
64QAM	632334	3485.01	67.514	69.85
64QAM	633334	3500.01	67.484	69.86
64QAM	634332	3514.98	67.510	69.85
256QAM	632334	3485.01	67.437	69.84
256QAM	633334	3500.01	67.409	69.84
256QAM	634332	3514.98	67.459	69.83



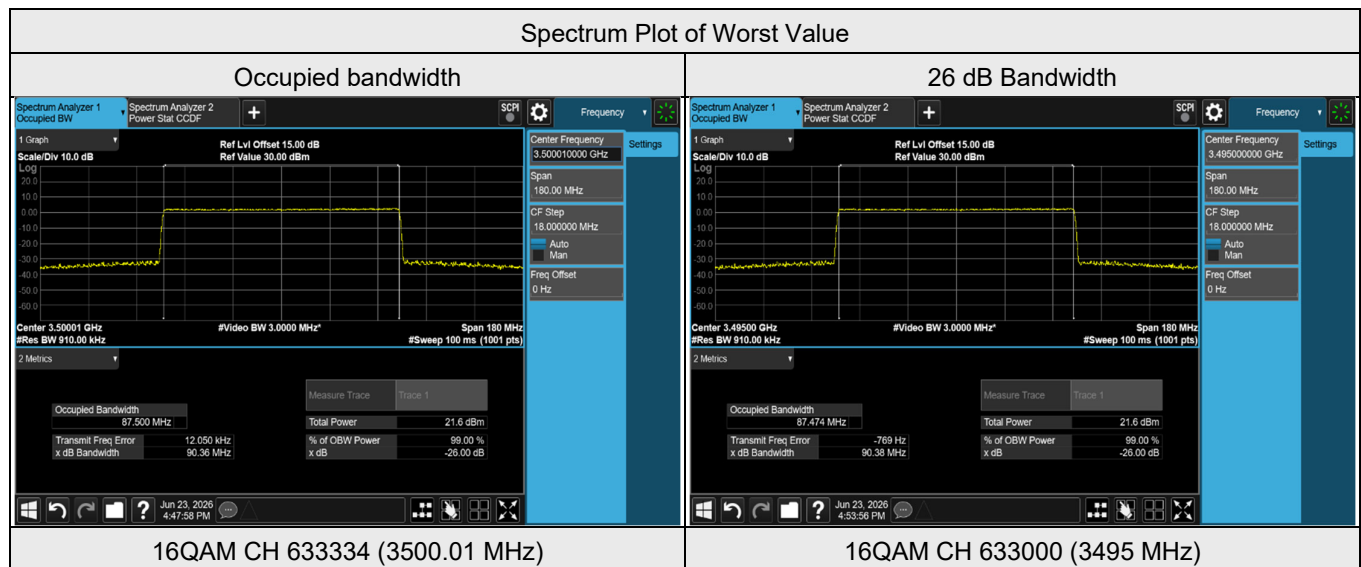
NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632668	3490.02	77.093	79.73
BPSK	633334	3500.01	77.077	79.77
BPSK	634000	3510	77.095	79.76
QPSK	632668	3490.02	77.455	80.11
QPSK	633334	3500.01	77.460	80.05
QPSK	634000	3510	77.456	80.08
16QAM	632668	3490.02	77.488	80.10
16QAM	633334	3500.01	77.459	80.04
16QAM	634000	3510	77.468	80.09
64QAM	632668	3490.02	77.474	80.10
64QAM	633334	3500.01	77.487	80.06
64QAM	634000	3510	77.506	80.08
256QAM	632668	3490.02	77.471	80.07
256QAM	633334	3500.01	77.450	80.04
256QAM	634000	3510	77.444	80.06



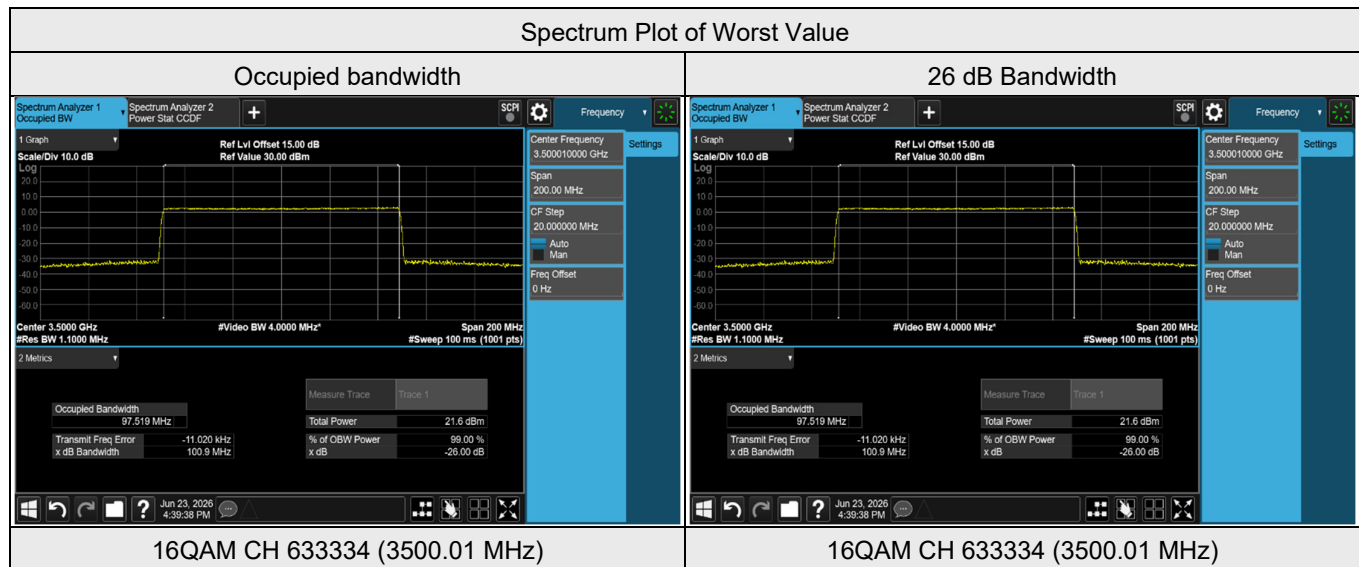
NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	633000	3495	86.790	89.74
BPSK	633334	3500.01	86.825	89.63
BPSK	633666	3504.99	86.834	89.60
QPSK	633000	3495	87.453	90.36
QPSK	633334	3500.01	87.454	90.35
QPSK	633666	3504.99	87.427	90.36
16QAM	633000	3495	87.474	90.38
16QAM	633334	3500.01	87.500	90.36
16QAM	633666	3504.99	87.409	90.35
64QAM	633000	3495	87.467	90.38
64QAM	633334	3500.01	87.428	90.34
64QAM	633666	3504.99	87.480	90.35
256QAM	633000	3495	87.439	90.37
256QAM	633334	3500.01	87.460	90.35
256QAM	633666	3504.99	87.436	90.33



NR n77 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	633334	3500.01	96.513	99.79
QPSK	633334	3500.01	97.486	100.9
16QAM	633334	3500.01	97.519	100.9
64QAM	633334	3500.01	97.480	100.9
256QAM	633334	3500.01	97.427	100.8

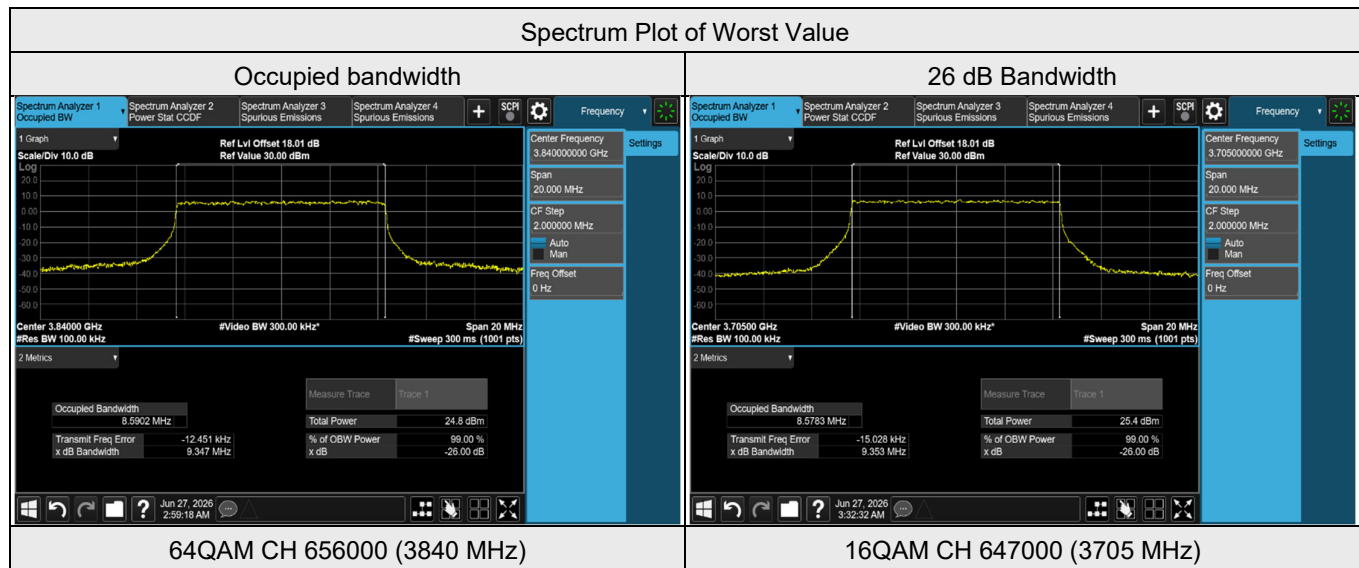


7.4.6 NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz)

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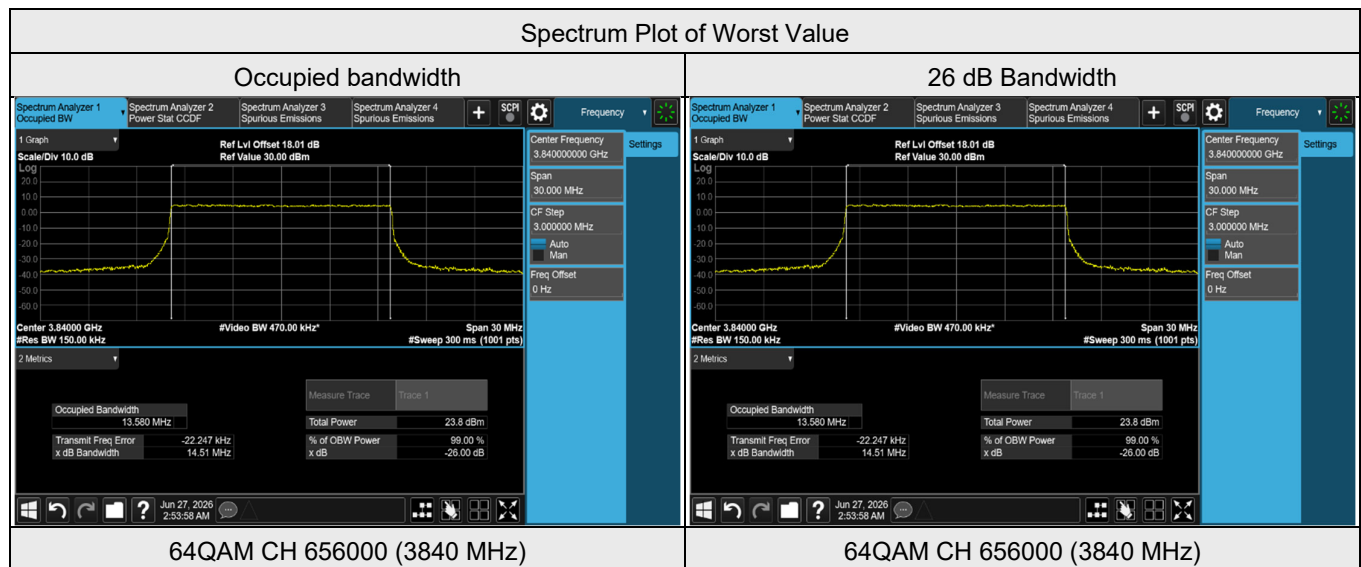
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647000	3705	8.5797	9.347
BPSK	656000	3840	8.5835	9.303
BPSK	665000	3975	8.5829	9.285
QPSK	647000	3705	8.5825	9.241
QPSK	656000	3840	8.5695	9.235
QPSK	665000	3975	8.5792	9.342
16QAM	647000	3705	8.5783	9.353
16QAM	656000	3840	8.5748	9.344
16QAM	665000	3975	8.5724	9.231
64QAM	647000	3705	8.5760	9.254
64QAM	656000	3840	8.5902	9.347
64QAM	665000	3975	8.5840	9.261
256QAM	647000	3705	8.5674	9.320
256QAM	656000	3840	8.5565	9.188
256QAM	665000	3975	8.5645	9.350



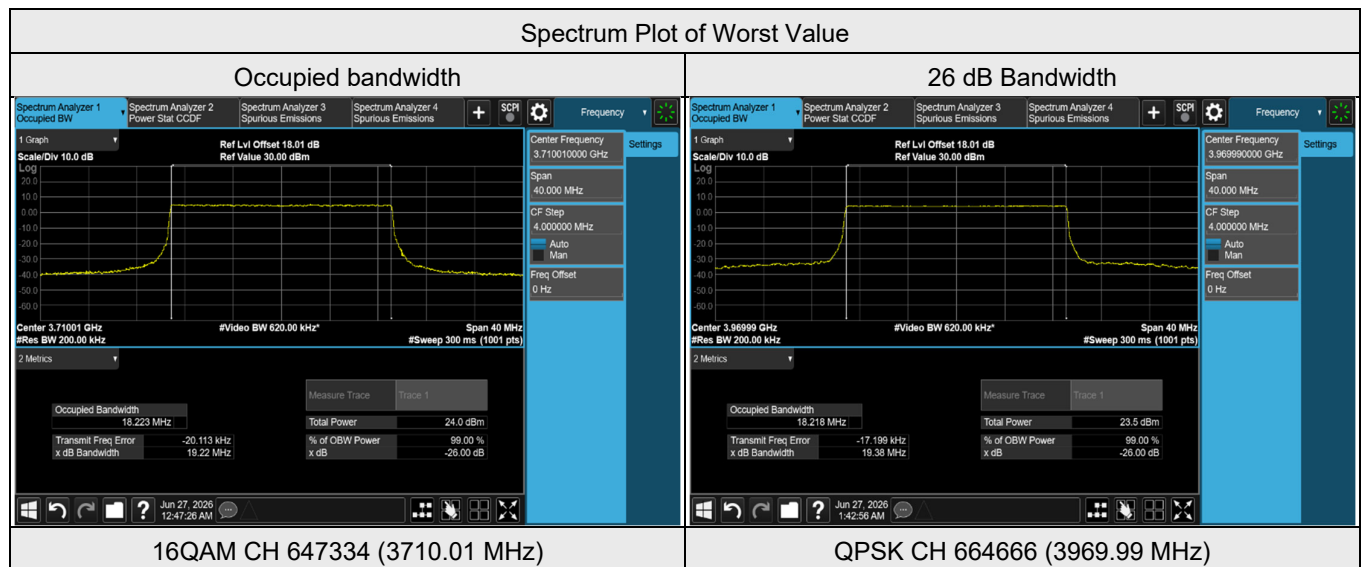
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647168	3707.52	12.865	13.68
BPSK	656000	3840	12.856	13.65
BPSK	664832	3972.48	12.875	13.65
QPSK	647168	3707.52	13.564	14.43
QPSK	656000	3840	13.569	14.38
QPSK	664832	3972.48	13.566	14.47
16QAM	647168	3707.52	13.566	14.42
16QAM	656000	3840	13.565	14.43
16QAM	664832	3972.48	13.567	14.36
64QAM	647168	3707.52	13.575	14.44
64QAM	656000	3840	13.580	14.51
64QAM	664832	3972.48	13.578	14.44
256QAM	647168	3707.52	13.574	14.37
256QAM	656000	3840	13.566	14.35
256QAM	664832	3972.48	13.578	14.40



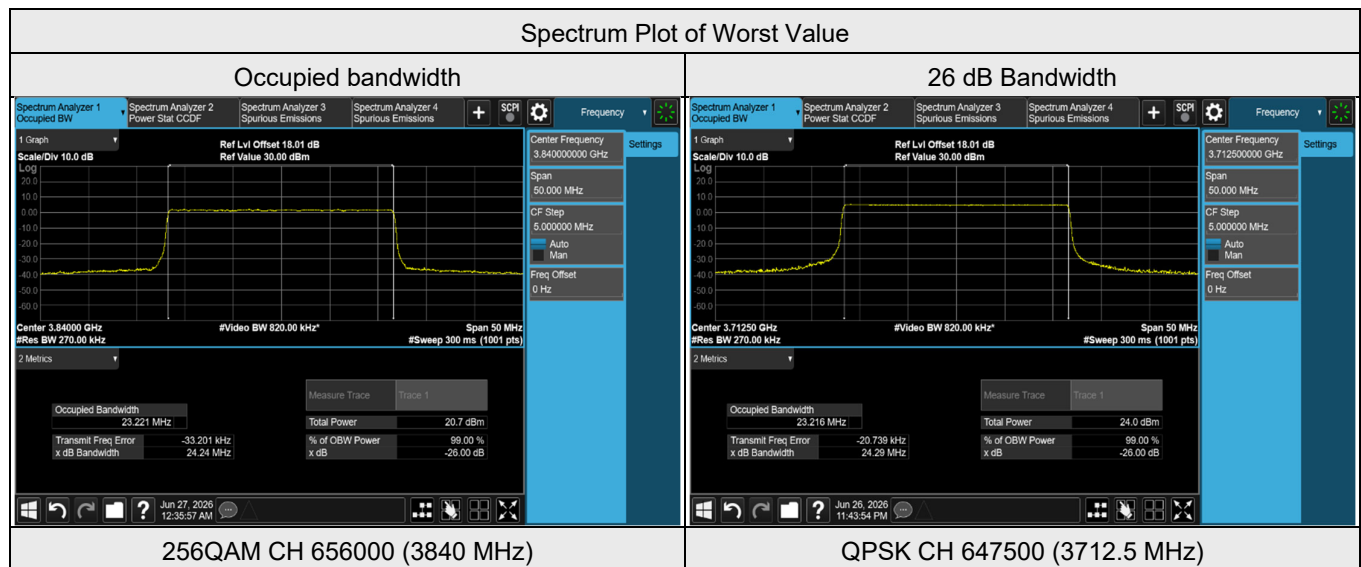
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647334	3710.01	17.857	18.70
BPSK	656000	3840	17.839	18.63
BPSK	664666	3969.99	17.848	18.58
QPSK	647334	3710.01	18.215	19.22
QPSK	656000	3840	18.211	19.13
QPSK	664666	3969.99	18.218	19.38
16QAM	647334	3710.01	18.223	19.22
16QAM	656000	3840	18.222	19.08
16QAM	664666	3969.99	18.221	19.15
64QAM	647334	3710.01	18.197	19.26
64QAM	656000	3840	18.190	19.07
64QAM	664666	3969.99	18.197	19.19
256QAM	647334	3710.01	18.204	19.10
256QAM	656000	3840	18.195	19.09
256QAM	664666	3969.99	18.205	19.17



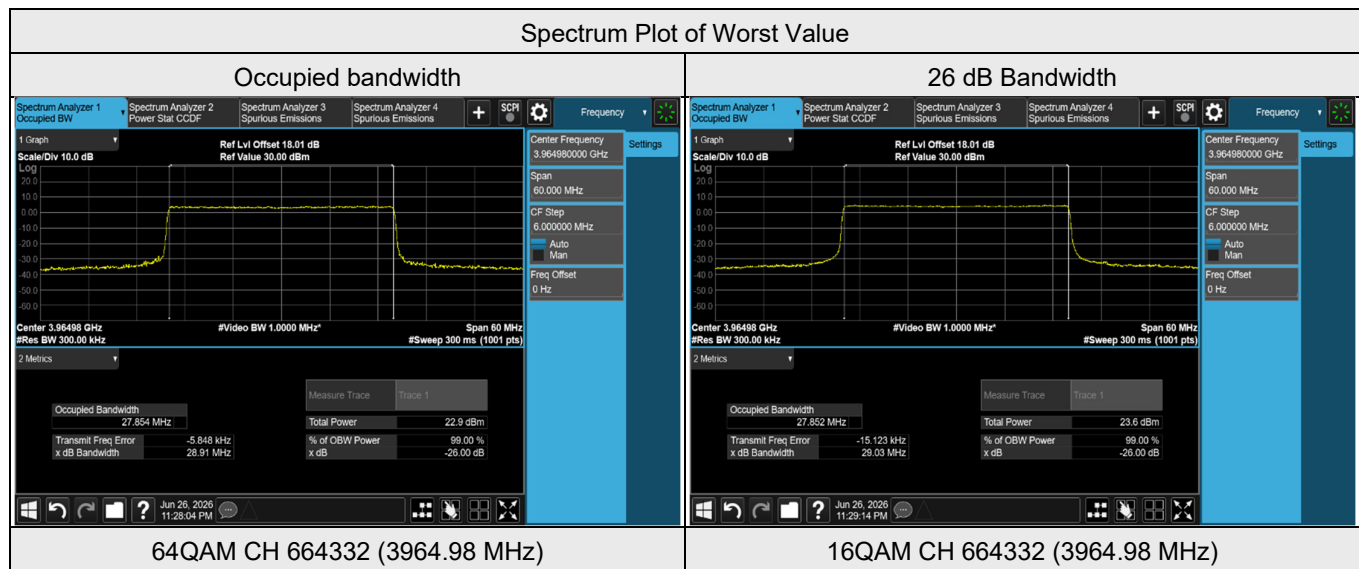
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 25 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647500	3712.5	22.881	23.83
BPSK	656000	3840	22.884	23.83
BPSK	664500	3967.5	22.895	23.90
QPSK	647500	3712.5	23.216	24.29
QPSK	656000	3840	23.217	24.20
QPSK	664500	3967.5	23.211	24.25
16QAM	647500	3712.5	23.214	24.24
16QAM	656000	3840	23.203	24.28
16QAM	664500	3967.5	23.219	24.19
64QAM	647500	3712.5	23.211	24.23
64QAM	656000	3840	23.212	24.26
64QAM	664500	3967.5	23.202	24.21
256QAM	647500	3712.5	23.218	24.24
256QAM	656000	3840	23.221	24.24
256QAM	664500	3967.5	23.218	24.17



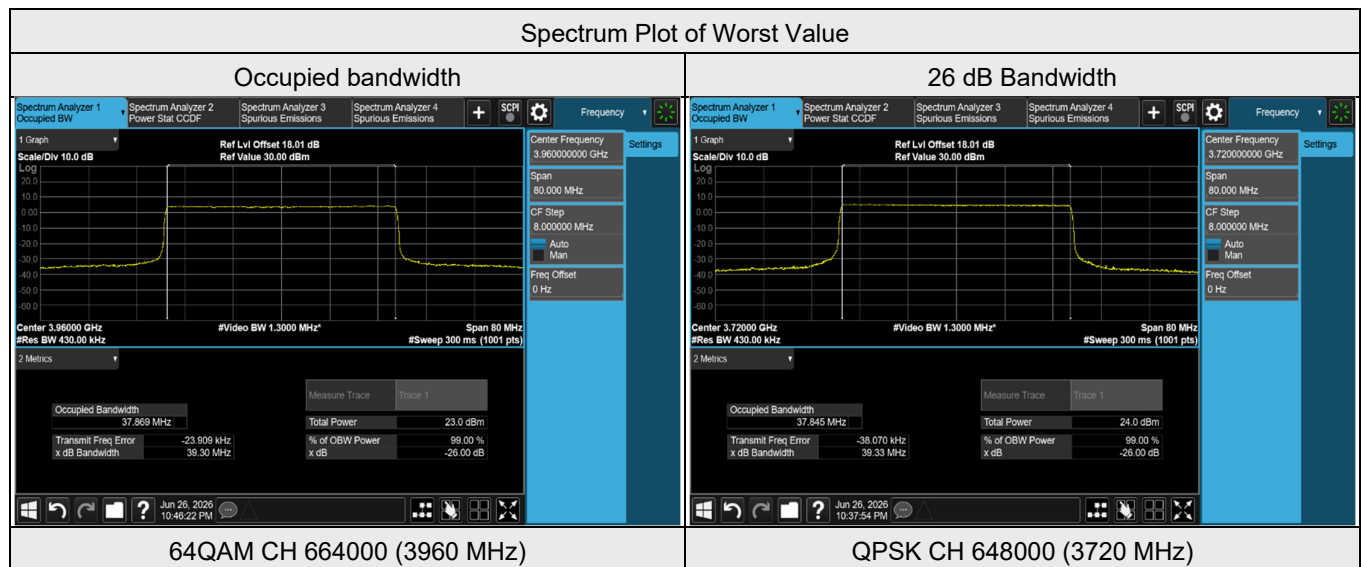
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647668	3715.02	26.780	27.87
BPSK	656000	3840	26.773	27.89
BPSK	664332	3964.98	26.782	27.87
QPSK	647668	3715.02	27.838	28.99
QPSK	656000	3840	27.849	28.96
QPSK	664332	3964.98	27.849	29.03
16QAM	647668	3715.02	27.840	28.94
16QAM	656000	3840	27.837	28.92
16QAM	664332	3964.98	27.852	29.03
64QAM	647668	3715.02	27.820	28.99
64QAM	656000	3840	27.831	28.98
64QAM	664332	3964.98	27.854	28.91
256QAM	647668	3715.02	27.840	28.92
256QAM	656000	3840	27.845	28.88
256QAM	664332	3964.98	27.850	28.86



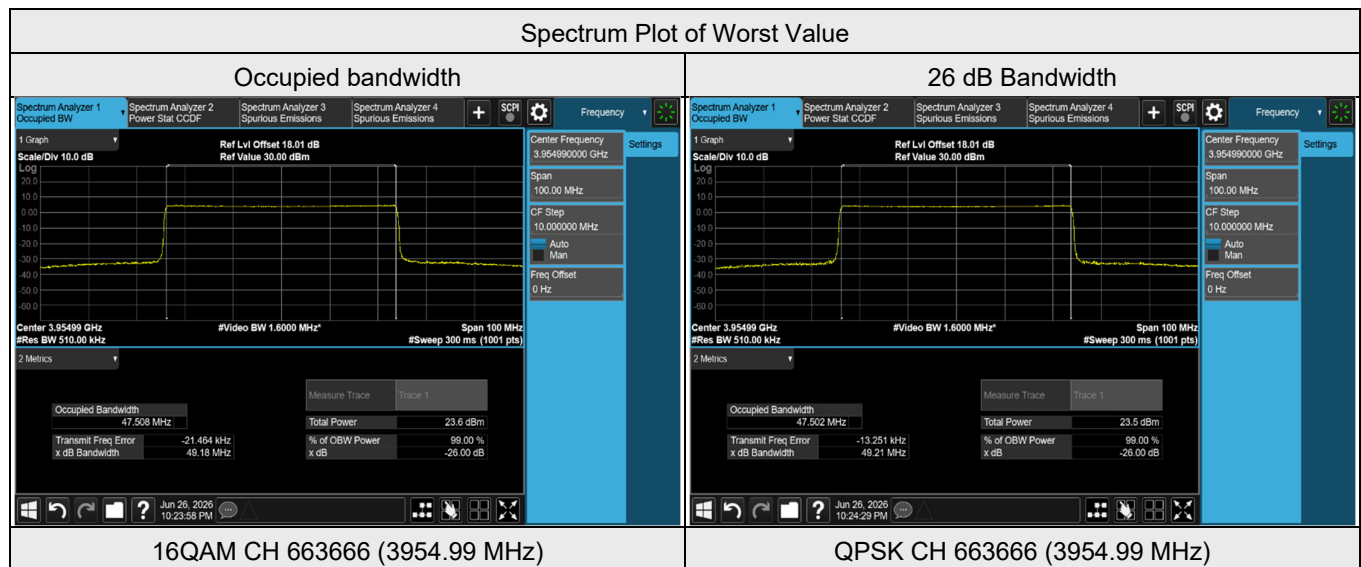
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648000	3720	35.698	37.08
BPSK	656000	3840	35.728	37.08
BPSK	664000	3960	35.714	37.11
QPSK	648000	3720	37.845	39.33
QPSK	656000	3840	37.848	39.27
QPSK	664000	3960	37.862	39.32
16QAM	648000	3720	37.848	39.27
16QAM	656000	3840	37.854	39.28
16QAM	664000	3960	37.848	39.29
64QAM	648000	3720	37.841	39.27
64QAM	656000	3840	37.854	39.28
64QAM	664000	3960	37.869	39.30
256QAM	648000	3720	37.836	39.28
256QAM	656000	3840	37.857	39.25
256QAM	664000	3960	37.855	39.32



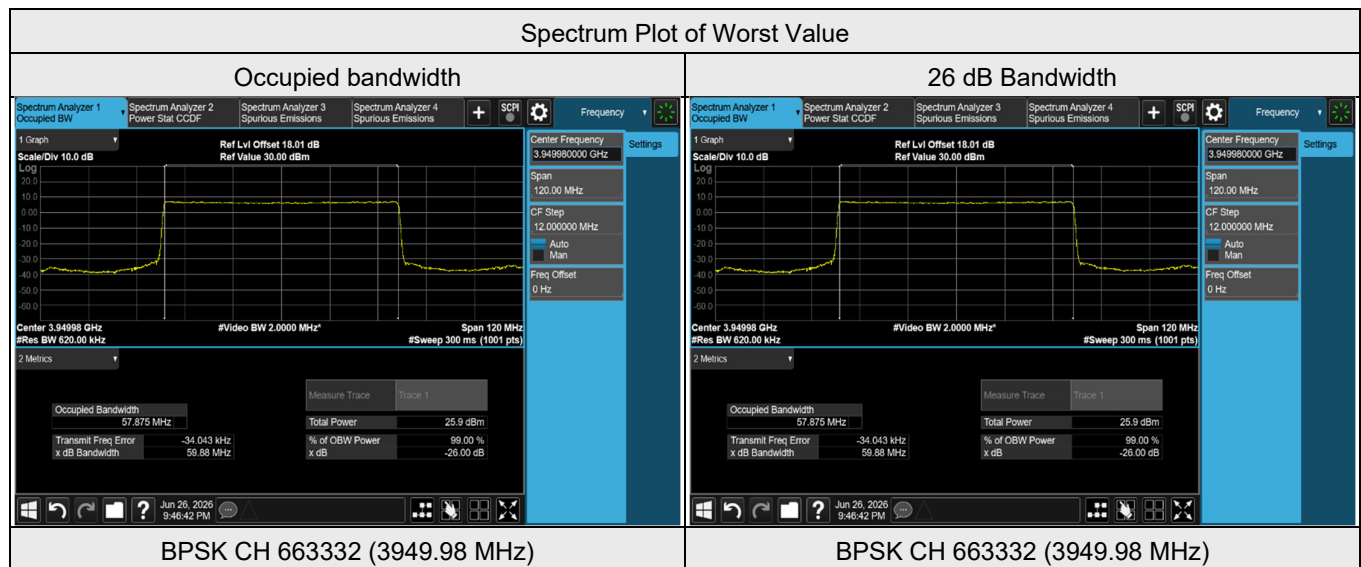
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648334	3725.01	45.708	47.37
BPSK	656000	3840	45.725	47.36
BPSK	663666	3954.99	45.723	47.37
QPSK	648334	3725.01	47.455	49.18
QPSK	656000	3840	47.475	49.20
QPSK	663666	3954.99	47.502	49.21
16QAM	648334	3725.01	47.440	49.16
16QAM	656000	3840	47.445	49.17
16QAM	663666	3954.99	47.508	49.18
64QAM	648334	3725.01	47.411	49.16
64QAM	656000	3840	47.437	49.14
64QAM	663666	3954.99	47.481	49.20
256QAM	648334	3725.01	47.460	49.13
256QAM	656000	3840	47.472	49.14
256QAM	663666	3954.99	47.477	49.14



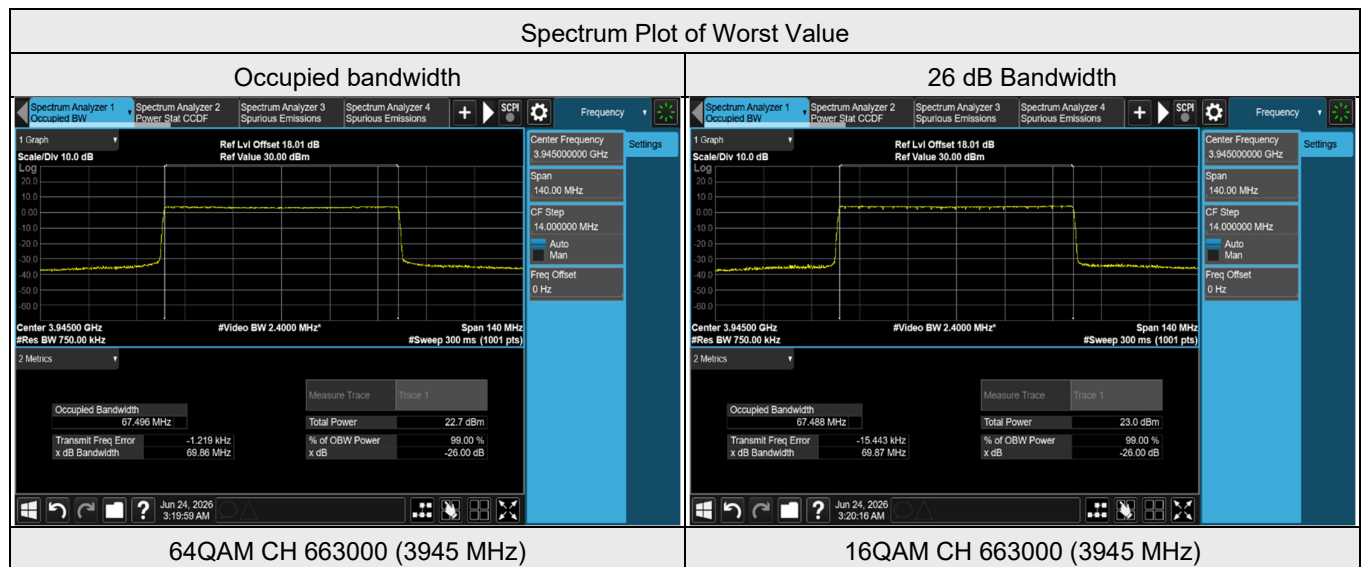
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648668	3730.02	57.805	59.83
BPSK	656000	3840	57.861	59.82
BPSK	663332	3949.98	57.875	59.88
QPSK	648668	3730.02	57.797	59.86
QPSK	656000	3840	57.814	59.83
QPSK	663332	3949.98	57.851	59.87
16QAM	648668	3730.02	57.780	59.82
16QAM	656000	3840	57.795	59.83
16QAM	663332	3949.98	57.848	59.87
64QAM	648668	3730.02	57.824	59.84
64QAM	656000	3840	57.838	59.86
64QAM	663332	3949.98	57.830	59.87
256QAM	648668	3730.02	57.815	59.83
256QAM	656000	3840	57.824	59.85
256QAM	663332	3949.98	57.858	59.87



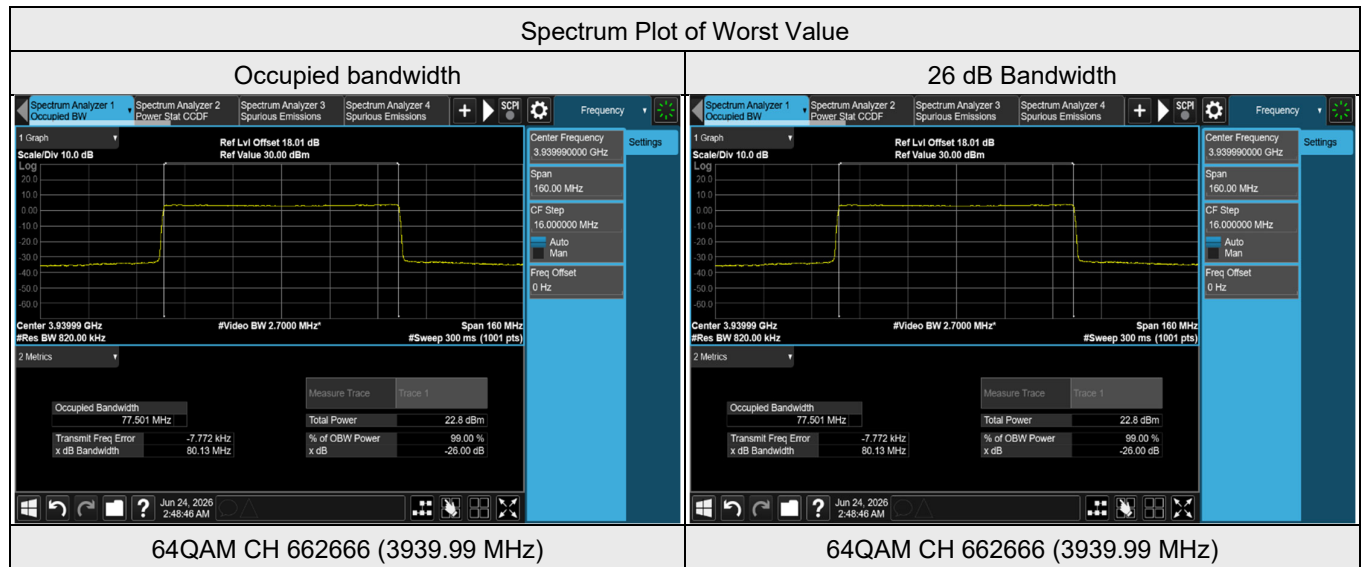
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649000	3735	64.274	66.59
BPSK	656000	3840	64.287	66.60
BPSK	663000	3945	64.329	66.60
QPSK	649000	3735	67.426	69.84
QPSK	656000	3840	67.453	69.83
QPSK	663000	3945	67.479	69.86
16QAM	649000	3735	67.408	69.82
16QAM	656000	3840	67.426	69.84
16QAM	663000	3945	67.488	69.87
64QAM	649000	3735	67.471	69.83
64QAM	656000	3840	67.450	69.83
64QAM	663000	3945	67.496	69.86
256QAM	649000	3735	67.421	69.81
256QAM	656000	3840	67.437	69.80
256QAM	663000	3945	67.481	69.84



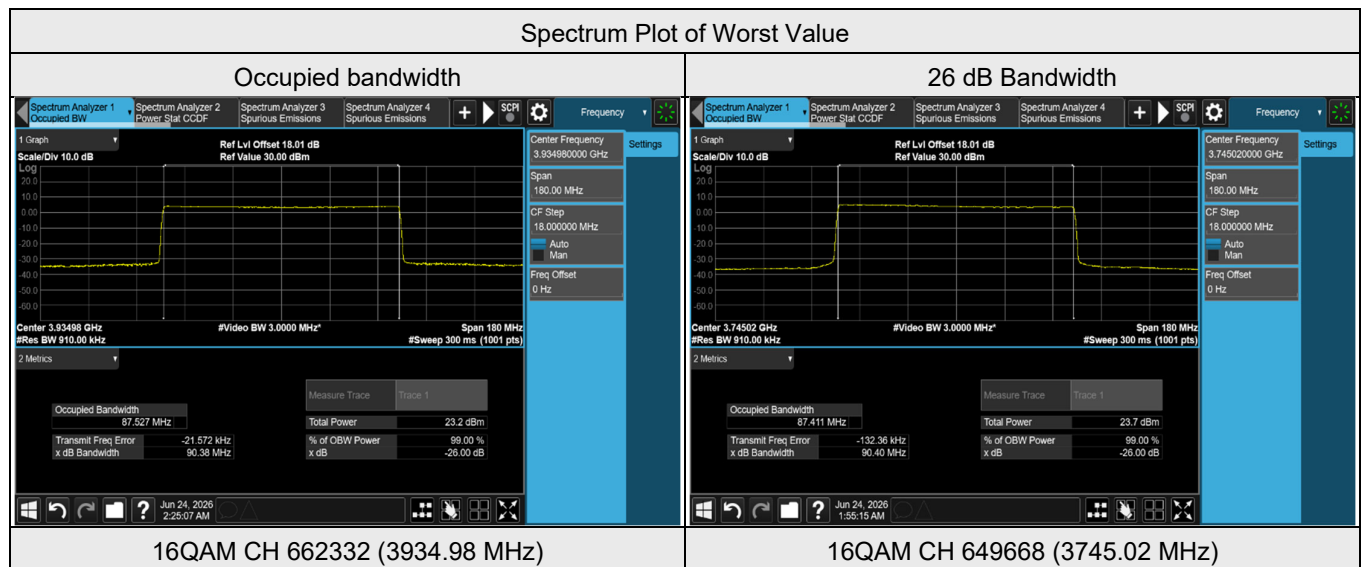
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649334	3740.01	77.076	79.73
BPSK	656000	3840	77.103	79.75
BPSK	662666	3939.99	77.150	79.67
QPSK	649334	3740.01	77.423	80.07
QPSK	656000	3840	77.439	80.07
QPSK	662666	3939.99	77.484	80.07
16QAM	649334	3740.01	77.417	80.08
16QAM	656000	3840	77.429	80.09
16QAM	662666	3939.99	77.492	80.07
64QAM	649334	3740.01	77.428	80.07
64QAM	656000	3840	77.412	80.05
64QAM	662666	3939.99	77.501	80.13
256QAM	649334	3740.01	77.447	80.07
256QAM	656000	3840	77.455	80.05
256QAM	662666	3939.99	77.488	80.06



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649668	3745.02	86.796	89.69
BPSK	656000	3840	86.834	89.71
BPSK	662332	3934.98	86.858	89.75
QPSK	649668	3745.02	87.416	90.31
QPSK	656000	3840	87.445	90.37
QPSK	662332	3934.98	87.501	90.38
16QAM	649668	3745.02	87.411	90.40
16QAM	656000	3840	87.465	90.38
16QAM	662332	3934.98	87.527	90.38
64QAM	649668	3745.02	87.444	90.35
64QAM	656000	3840	87.441	90.37
64QAM	662332	3934.98	87.503	90.35
256QAM	649668	3745.02	87.436	90.36
256QAM	656000	3840	87.453	90.38
256QAM	662332	3934.98	87.504	90.39



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	650000	3750	96.410	99.56
BPSK	656000	3840	96.444	99.56
BPSK	662000	3930	96.493	99.60
QPSK	650000	3750	97.431	100.7
QPSK	656000	3840	97.444	100.6
QPSK	662000	3930	97.507	100.7
16QAM	650000	3750	97.419	100.6
16QAM	656000	3840	97.429	100.6
16QAM	662000	3930	97.535	100.7
64QAM	650000	3750	97.441	100.7
64QAM	656000	3840	97.478	100.6
64QAM	662000	3930	97.450	100.7
256QAM	650000	3750	97.437	100.6
256QAM	656000	3840	97.411	100.6
256QAM	662000	3930	97.484	100.7

