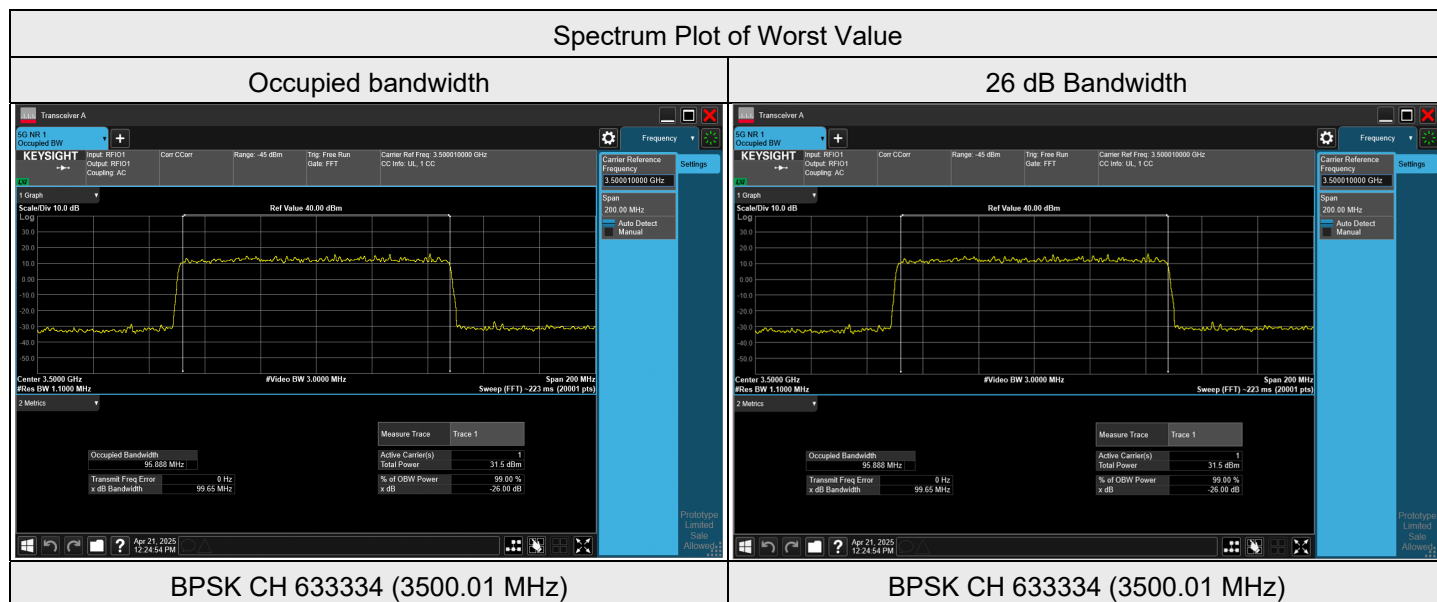


NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	633334	3500.01	95.888	99.65

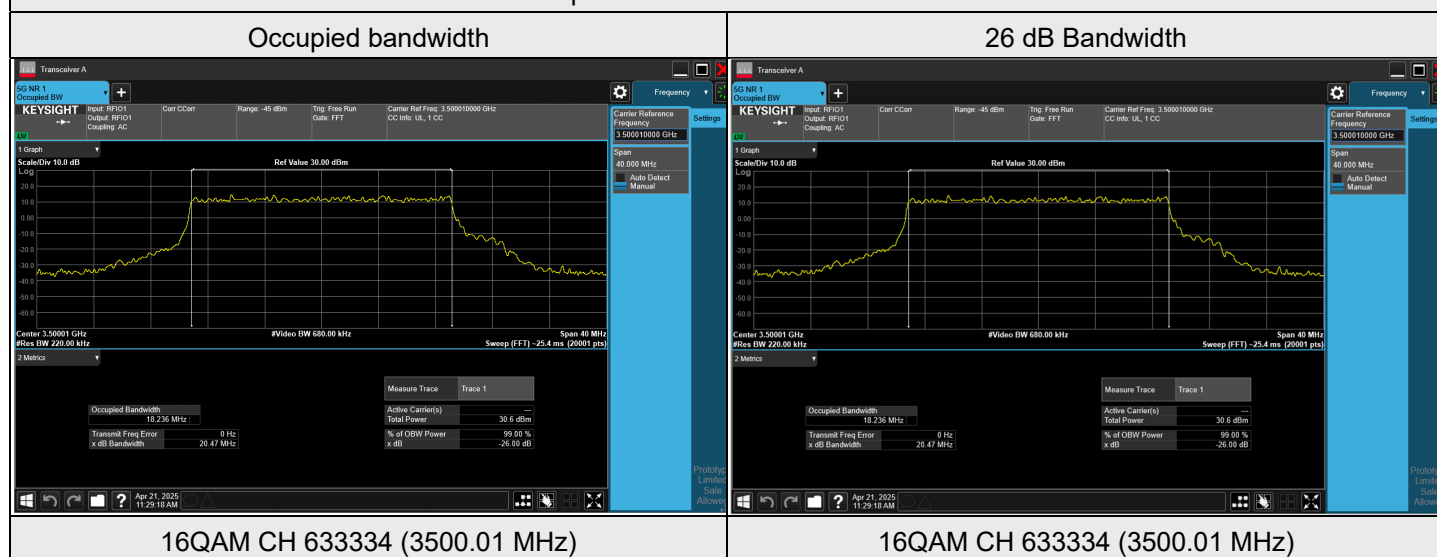


7.4.20 NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) (MIMO)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	630668	3460.02	18.234	19.75
QPSK	633334	3500.01	18.193	19.82
QPSK	636000	3540	18.194	19.59
16QAM	630668	3460.02	18.213	20.21
16QAM	633334	3500.01	18.236	20.47
16QAM	636000	3540	18.213	19.92
64QAM	630668	3460.02	18.209	19.81
64QAM	633334	3500.01	18.173	19.54
64QAM	636000	3540	18.201	19.39
256QAM	630668	3460.02	18.157	19.60
256QAM	633334	3500.01	18.222	19.92
256QAM	636000	3540	18.230	19.98

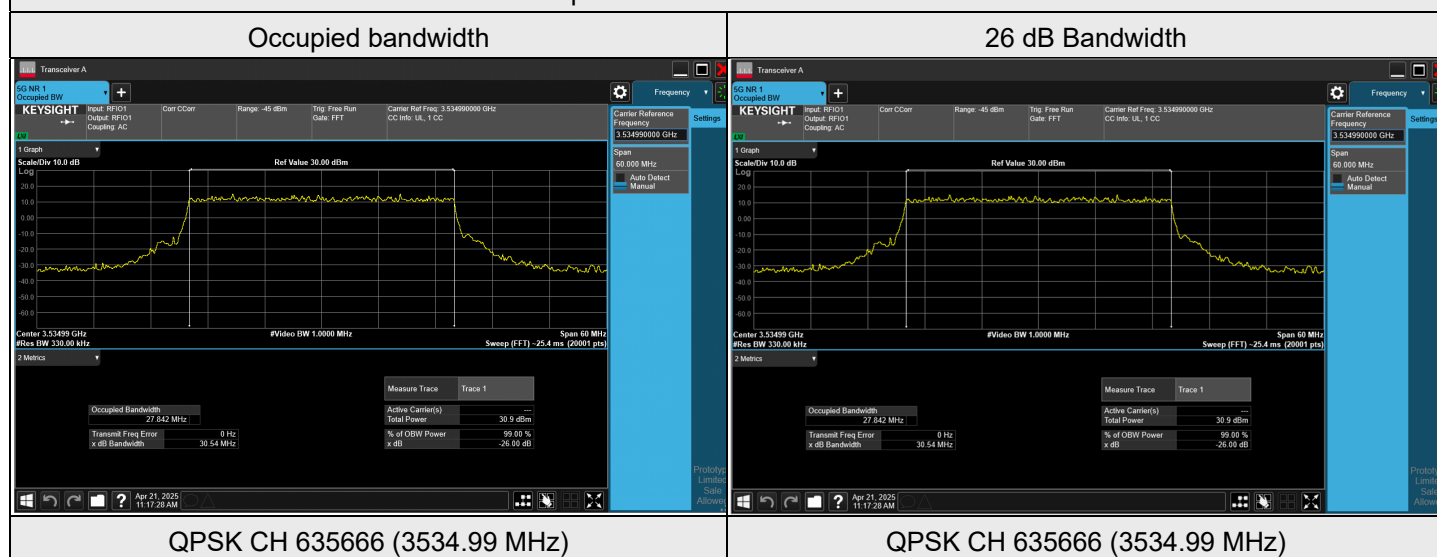
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631000	3465	27.555	29.78
QPSK	633334	3500.01	27.828	29.98
QPSK	635666	3534.99	27.842	30.54
16QAM	631000	3465	27.726	29.23
16QAM	633334	3500.01	27.747	29.27
16QAM	635666	3534.99	27.759	29.27
64QAM	631000	3465	27.812	29.86
64QAM	633334	3500.01	27.782	29.77
64QAM	635666	3534.99	27.788	29.79
256QAM	631000	3465	27.765	29.39
256QAM	633334	3500.01	27.788	29.20
256QAM	635666	3534.99	27.795	29.50

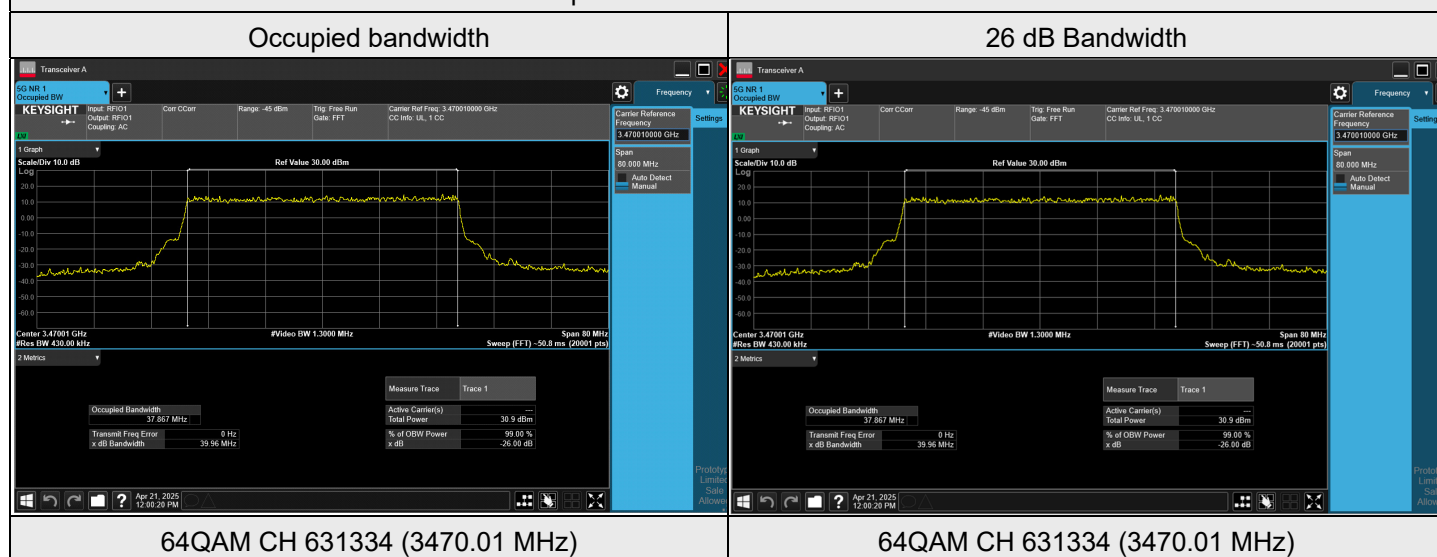
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631334	3470.01	37.764	39.82
QPSK	633334	3500.01	37.737	39.79
QPSK	635332	3529.98	37.755	39.85
16QAM	631334	3470.01	37.698	39.68
16QAM	633334	3500.01	37.723	39.68
16QAM	635332	3529.98	37.737	39.71
64QAM	631334	3470.01	37.867	39.96
64QAM	633334	3500.01	37.755	39.96
64QAM	635332	3529.98	37.859	39.67
256QAM	631334	3470.01	37.674	39.86
256QAM	633334	3500.01	37.665	39.70
256QAM	635332	3529.98	37.690	39.87

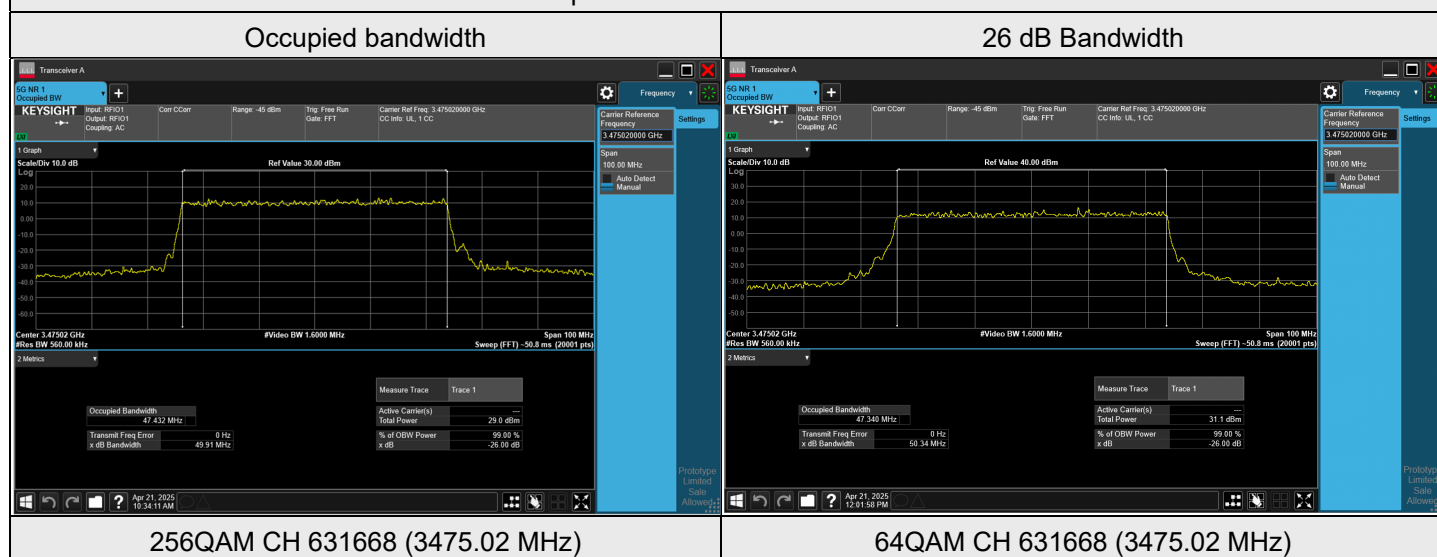
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631668	3475.02	47.321	49.97
QPSK	633334	3500.01	47.323	49.84
QPSK	635000	3525	47.424	49.94
16QAM	631668	3475.02	47.344	49.74
16QAM	633334	3500.01	47.383	49.66
16QAM	635000	3525	47.381	49.66
64QAM	631668	3475.02	47.340	50.34
64QAM	633334	3500.01	47.324	49.78
64QAM	635000	3525	47.413	50.32
256QAM	631668	3475.02	47.432	49.91
256QAM	633334	3500.01	47.345	49.84
256QAM	635000	3525	47.423	50.16

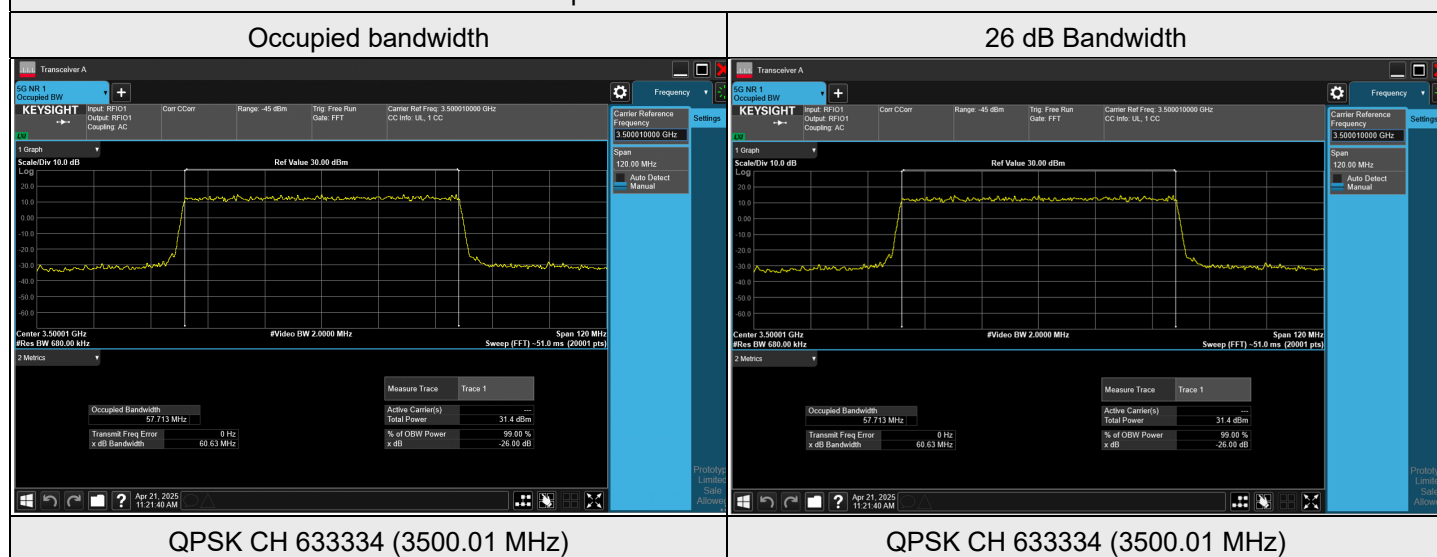
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 60 MHz

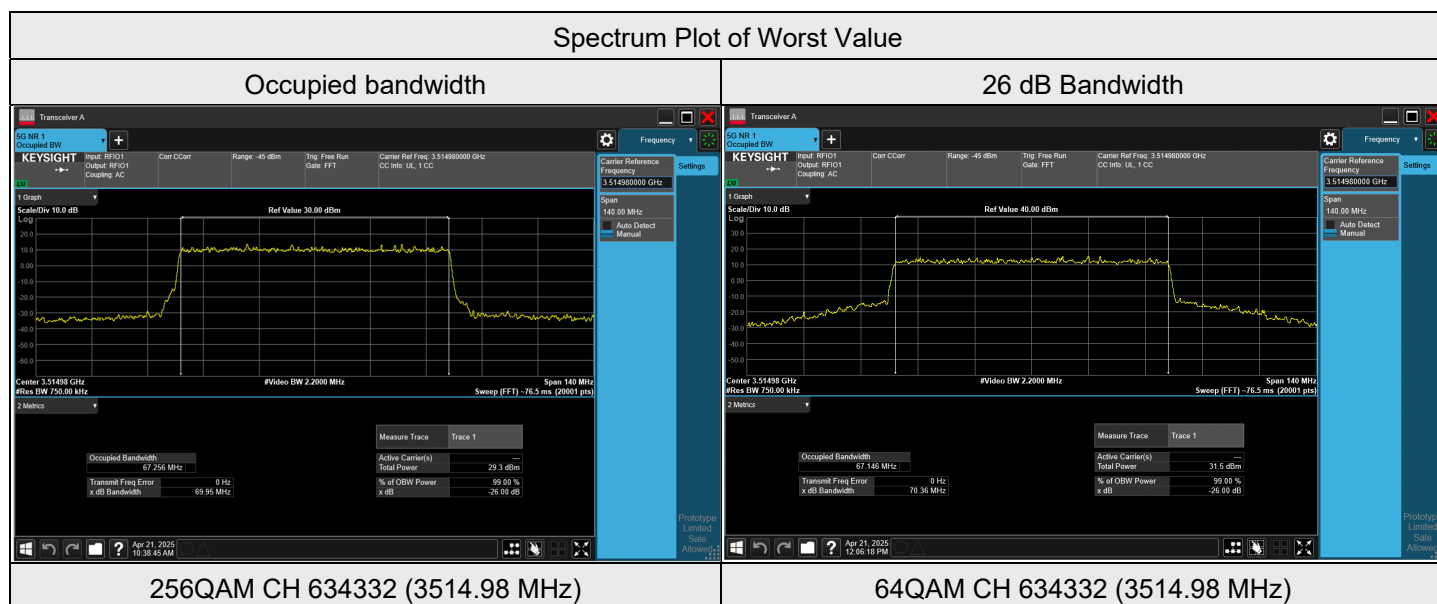
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	632000	3480	57.689	60.62
QPSK	633334	3500.01	57.713	60.63
QPSK	634666	3519.99	57.701	60.61
16QAM	632000	3480	57.672	60.37
16QAM	633334	3500.01	57.652	60.28
16QAM	634666	3519.99	57.688	60.31
64QAM	632000	3480	57.605	60.43
64QAM	633334	3500.01	57.664	60.39
64QAM	634666	3519.99	57.699	60.41
256QAM	632000	3480	57.627	60.15
256QAM	633334	3500.01	57.627	60.24
256QAM	634666	3519.99	57.702	60.28

Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 70 MHz

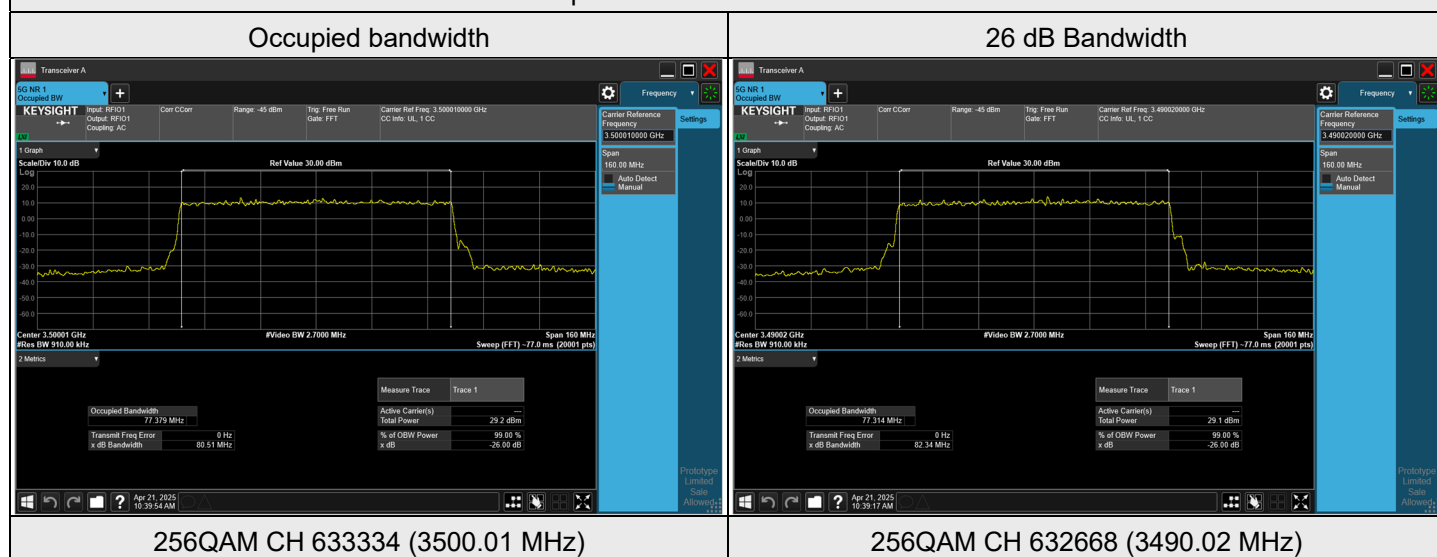
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	632334	3485.01	67.135	70.12
QPSK	633334	3500.01	67.149	70.14
QPSK	634332	3514.98	67.177	70.21
16QAM	632334	3485.01	67.202	70.07
16QAM	633334	3500.01	67.159	70.09
16QAM	634332	3514.98	67.165	69.95
64QAM	632334	3485.01	67.122	70.00
64QAM	633334	3500.01	67.132	70.20
64QAM	634332	3514.98	67.146	70.36
256QAM	632334	3485.01	67.203	69.68
256QAM	633334	3500.01	67.175	69.91
256QAM	634332	3514.98	67.256	69.95



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 80 MHz

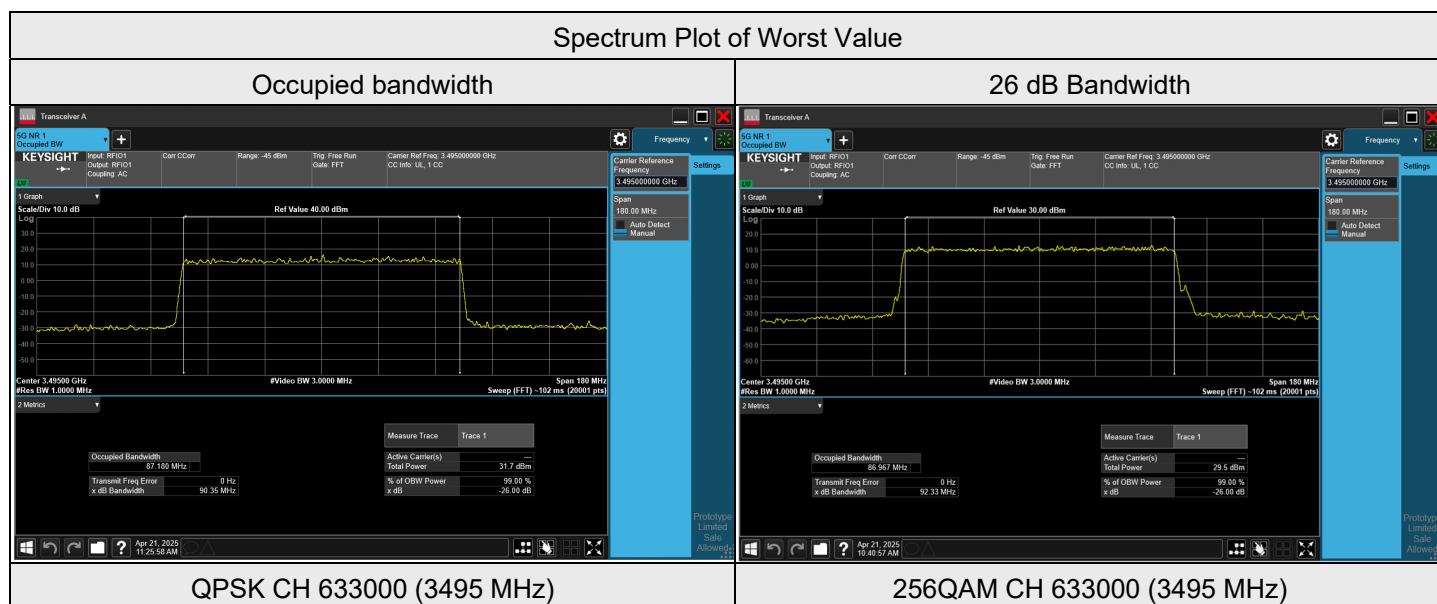
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	632668	3490.02	77.044	81.69
QPSK	633334	3500.01	77.062	80.36
QPSK	634000	3510	77.109	81.96
16QAM	632668	3490.02	77.126	80.51
16QAM	633334	3500.01	77.142	80.12
16QAM	634000	3510	77.252	80.25
64QAM	632668	3490.02	77.141	80.83
64QAM	633334	3500.01	77.104	80.58
64QAM	634000	3510	77.092	80.51
256QAM	632668	3490.02	77.314	82.34
256QAM	633334	3500.01	77.379	80.51
256QAM	634000	3510	77.348	81.80

Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 90 MHz

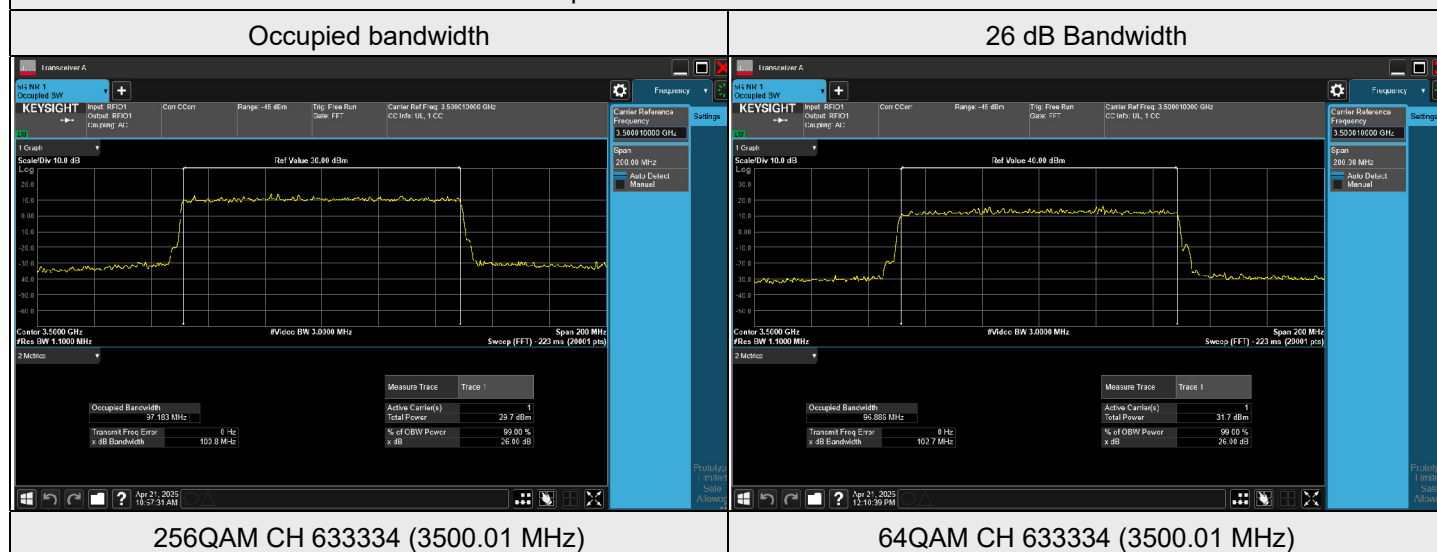
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	633000	3495	87.180	90.35
QPSK	633334	3500.01	87.141	90.41
QPSK	633666	3504.99	87.055	90.47
16QAM	633000	3495	86.979	90.50
16QAM	633334	3500.01	87.033	91.33
16QAM	633666	3504.99	87.072	90.53
64QAM	633000	3495	86.911	90.47
64QAM	633334	3500.01	86.982	90.52
64QAM	633666	3504.99	87.013	90.56
256QAM	633000	3495	86.967	92.33
256QAM	633334	3500.01	86.999	91.04
256QAM	633666	3504.99	87.093	90.62



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 100 MHz

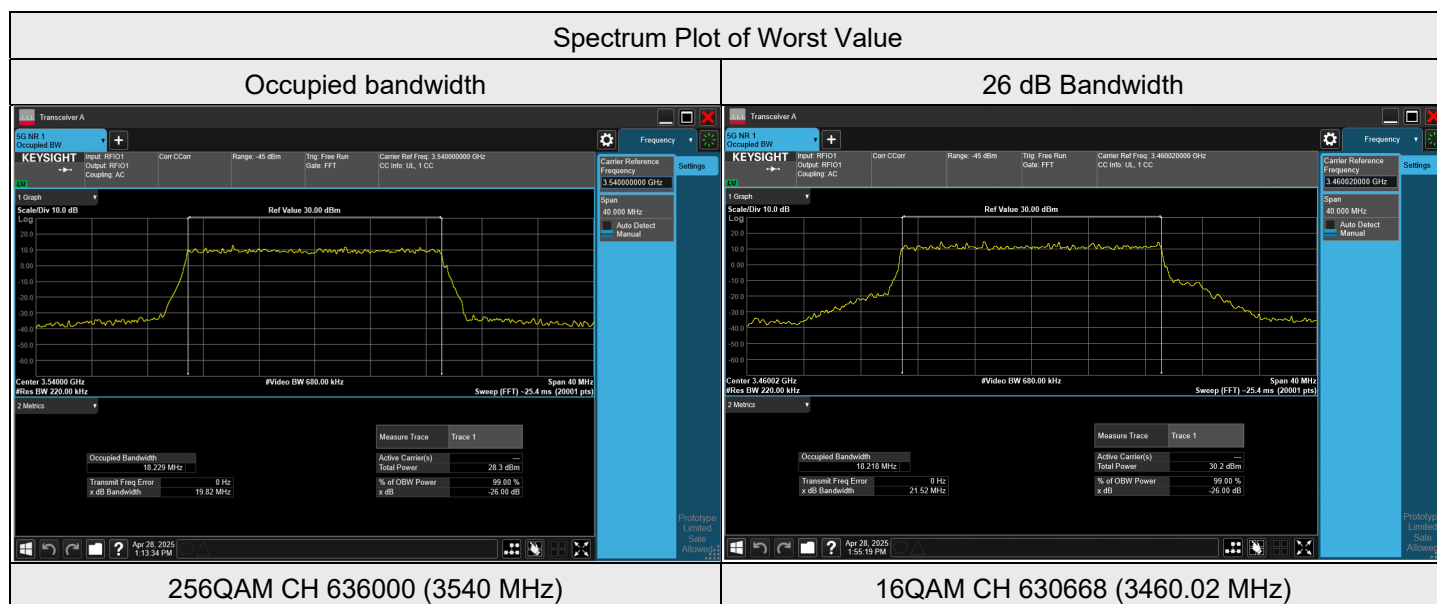
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	633334	3500.01	96.806	100.8
16QAM	633334	3500.01	97.141	100.8
64QAM	633334	3500.01	96.886	102.7
256QAM	633334	3500.01	97.183	100.8

Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 20 MHz

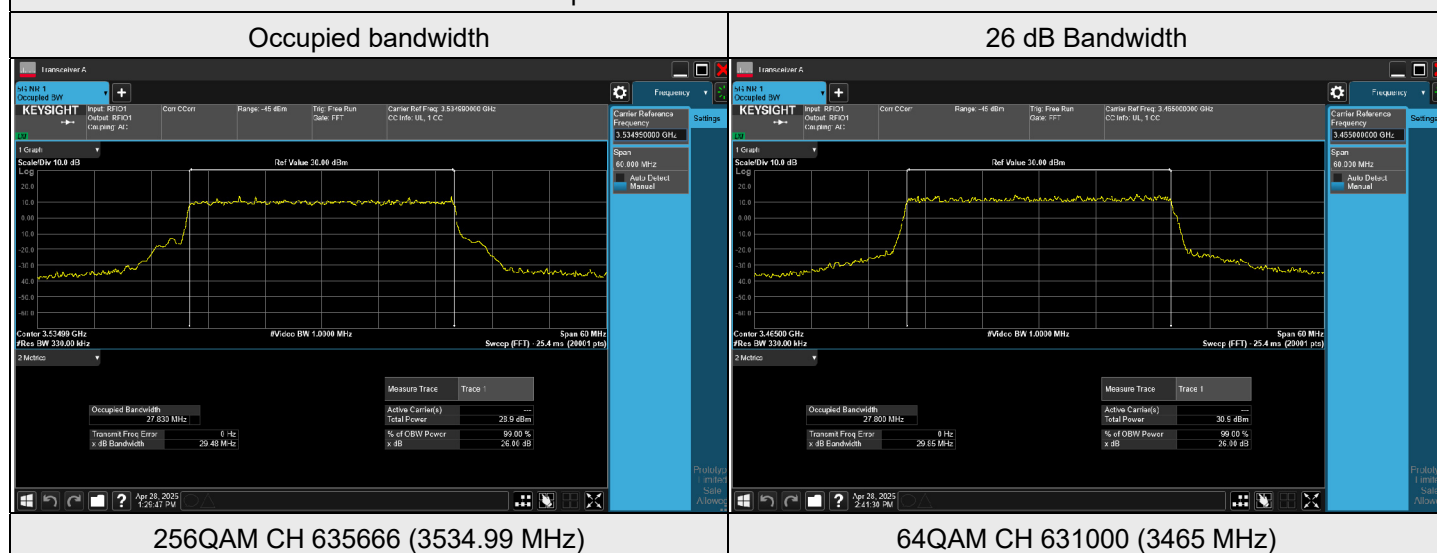
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	630668	3460.02	18.170	19.74
QPSK	633334	3500.01	18.206	19.80
QPSK	636000	3540	18.200	19.91
16QAM	630668	3460.02	18.218	21.52
16QAM	633334	3500.01	18.022	19.48
16QAM	636000	3540	18.201	19.92
64QAM	630668	3460.02	18.205	19.82
64QAM	633334	3500.01	18.172	19.53
64QAM	636000	3540	18.205	19.45
256QAM	630668	3460.02	18.157	19.63
256QAM	633334	3500.01	18.226	19.98
256QAM	636000	3540	18.229	19.82



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631000	3465	27.793	29.53
QPSK	633334	3500.01	27.795	29.53
QPSK	635666	3534.99	27.812	29.61
16QAM	631000	3465	27.794	29.60
16QAM	633334	3500.01	27.774	29.54
16QAM	635666	3534.99	27.811	29.42
64QAM	631000	3465	27.800	29.85
64QAM	633334	3500.01	27.793	29.62
64QAM	635666	3534.99	27.801	29.85
256QAM	631000	3465	27.800	29.85
256QAM	633334	3500.01	27.800	29.63
256QAM	635666	3534.99	27.830	29.48

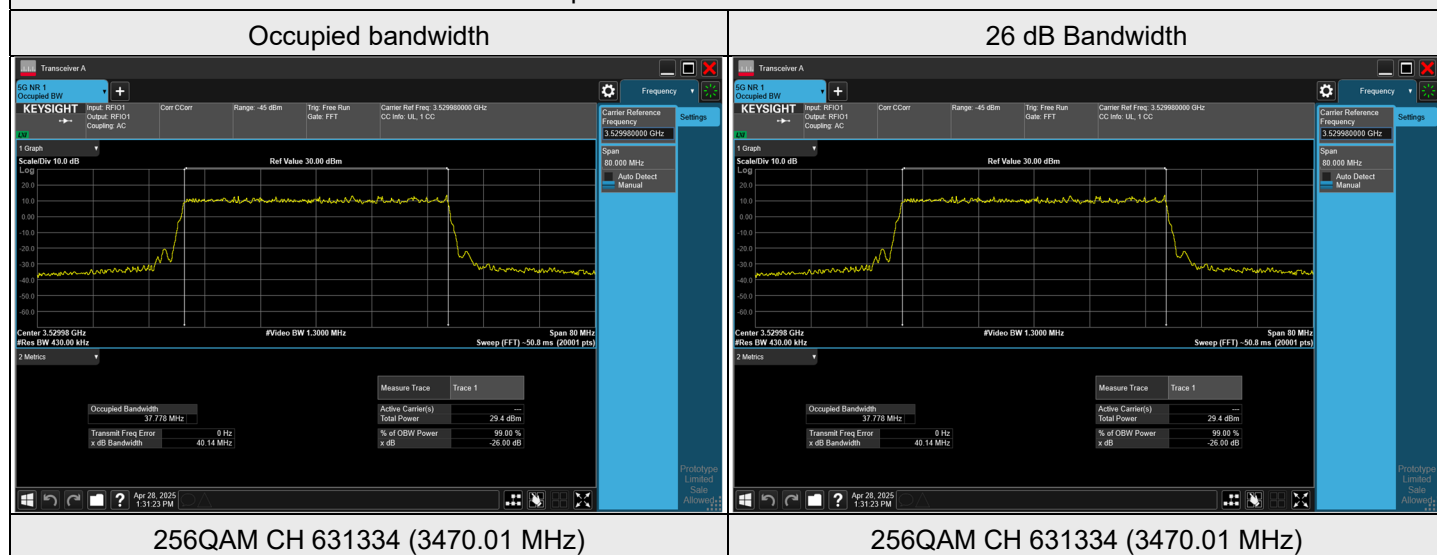
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631334	3470.01	37.770	40.02
QPSK	633334	3500.01	37.776	39.80
QPSK	635332	3529.98	37.777	39.81
16QAM	631334	3470.01	37.761	39.61
16QAM	633334	3500.01	37.728	39.58
16QAM	635332	3529.98	37.733	39.90
64QAM	631334	3470.01	37.746	39.95
64QAM	633334	3500.01	37.765	39.78
64QAM	635332	3529.98	37.737	39.79
256QAM	631334	3470.01	37.737	40.09
256QAM	633334	3500.01	37.753	39.94
256QAM	635332	3529.98	37.778	40.14

Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
QPSK	631668	3475.02	47.364	51.31
QPSK	633334	3500.01	47.344	49.69
QPSK	635000	3525	47.430	50.62
16QAM	631668	3475.02	47.436	49.72
16QAM	633334	3500.01	47.302	49.76
16QAM	635000	3525	47.451	51.93
64QAM	631668	3475.02	47.402	49.70
64QAM	633334	3500.01	47.440	49.92
64QAM	635000	3525	47.449	49.82
256QAM	631668	3475.02	47.422	49.91
256QAM	633334	3500.01	47.433	49.73
256QAM	635000	3525	47.421	50.25

Spectrum Plot of Worst Value

