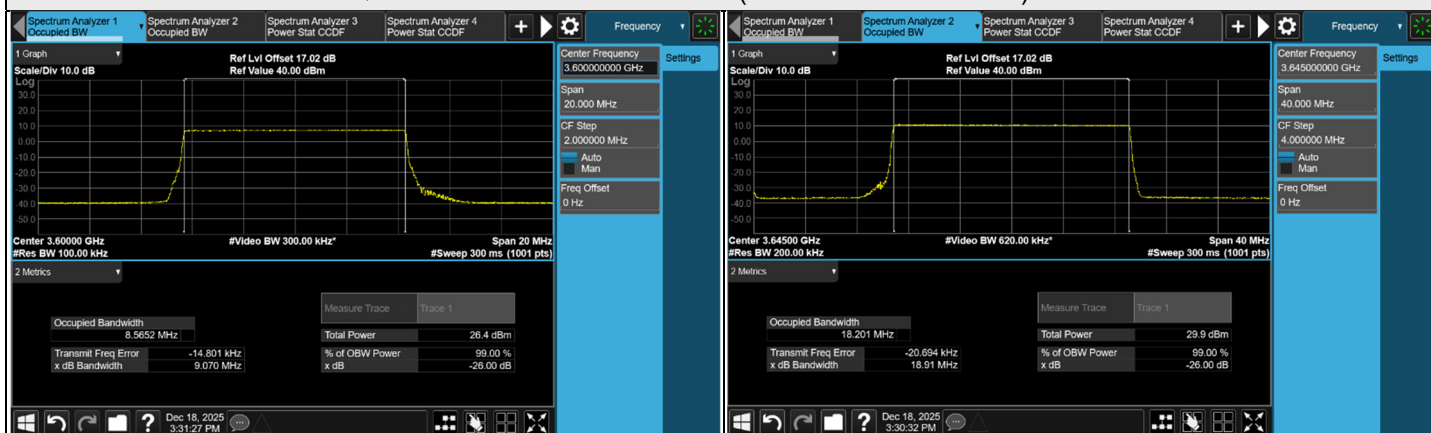


Spectrum Plot of Worst Value

Occupied bandwidth

QPSK CH 640000 + CH 643000 (3600 MHz + 3645 MHz) Ant.0

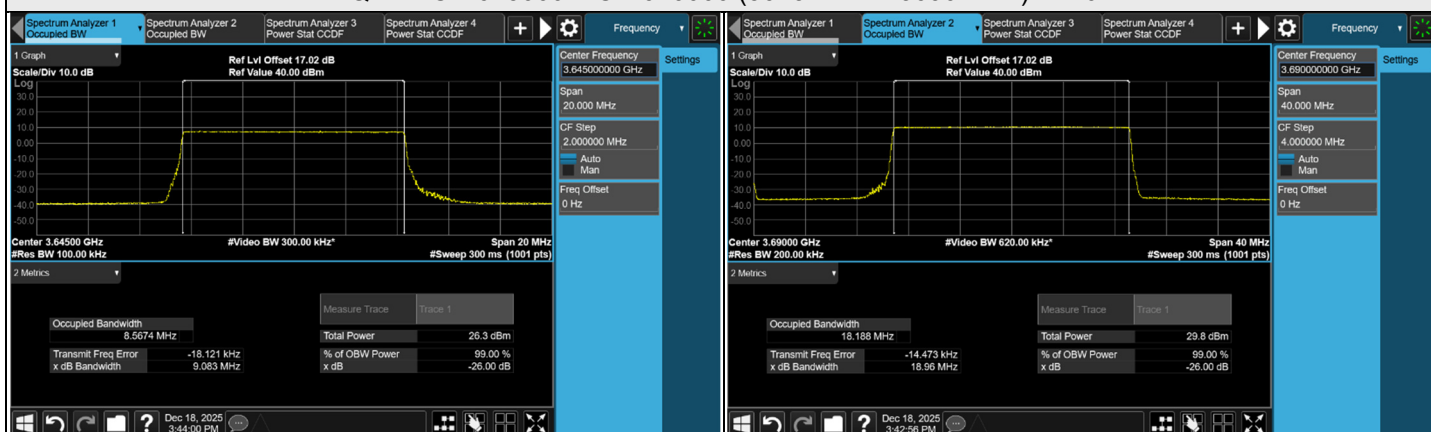


CH 640000 (3600 MHz)

CH 643000 (3645 MHz)

26 dB Bandwidth

QPSK CH 643000 + CH 646000 (3645 MHz + 3690 MHz) Ant.0



CH 643000 (3645 MHz)

CH 646000 (3690 MHz)

2CC-contiguous, Channel Bandwidth: 20 MHz + 10 MHz

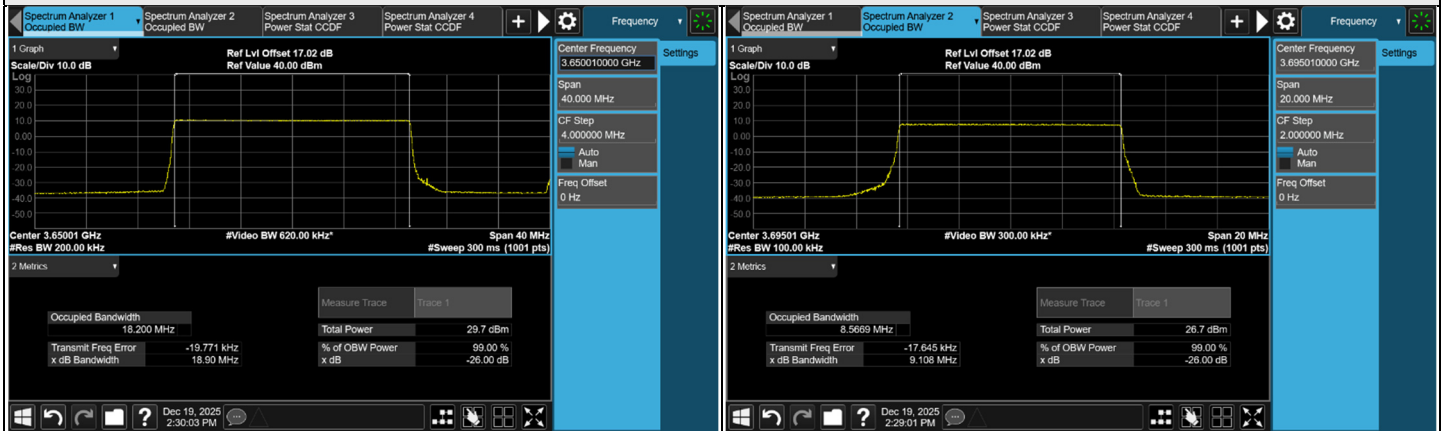
Modulation	Channel		Frequency (MHz)	Occupied Bandwidth (MHz)			
				Ant.0	Ant.1	Ant.2	Ant.3
QPSK	Low	637334	3560.01	18.198	18.179	18.183	18.175
		640334	3605.01	8.565	8.561	8.557	8.558
		Total		26.763	26.740	26.740	26.733
	Middle	640334	3605.01	18.188	18.177	18.181	18.174
		643334	3650.01	8.568	8.565	8.563	8.555
		Total		26.756	26.742	26.744	26.729
	High	643334	3650.01	18.200	18.185	18.179	18.175
		646334	3695.01	8.567	8.561	8.564	8.563
		Total		26.767	26.746	26.743	26.738
64QAM	Low	637334	3560.01	18.197	18.179	18.185	18.178
		640334	3605.01	8.564	8.562	8.558	8.558
		Total		26.761	26.741	26.743	26.736
	Middle	640334	3605.01	18.188	18.176	18.178	18.174
		643334	3650.01	8.568	8.559	8.561	8.557
		Total		26.756	26.735	26.739	26.731
	High	643334	3650.01	18.198	18.174	18.182	18.175
		646334	3695.01	8.567	8.562	8.564	8.560
		Total		26.765	26.736	26.746	26.735
256QAM	Low	637334	3560.01	18.178	18.178	18.188	18.175
		640334	3605.01	8.560	8.556	8.558	8.560
		Total		26.738	26.734	26.746	26.735
	Middle	640334	3605.01	18.189	18.180	18.177	18.173
		643334	3650.01	8.568	8.556	8.556	8.557
		Total		26.757	26.736	26.733	26.730
	High	643334	3650.01	18.196	18.180	18.178	18.175
		646334	3695.01	8.567	8.561	8.561	8.562
		Total		26.763	26.741	26.739	26.737

Modulation	Channel		Frequency (MHz)	26 dB Bandwidth (MHz)			
				Ant.0	Ant.1	Ant.2	Ant.3
QPSK	Low	637334	3560.01	18.90	18.90	18.87	18.87
		640334	3605.01	9.11	9.09	9.13	9.11
		Total		28.01	27.99	28.00	27.98
	Middle	640334	3605.01	18.90	18.87	18.90	18.89
		643334	3650.01	9.10	9.07	9.11	9.14
		Total		28.00	27.94	28.01	28.03
	High	643334	3650.01	18.90	18.90	18.90	18.85
		646334	3695.01	9.11	9.09	9.14	9.10
		Total		28.01	27.99	28.04	27.95
64QAM	Low	637334	3560.01	18.90	18.89	18.87	18.86
		640334	3605.01	9.09	9.09	9.04	9.08
		Total		27.99	27.98	27.91	27.94
	Middle	640334	3605.01	18.89	18.86	18.90	18.90
		643334	3650.01	9.05	9.10	9.19	9.05
		Total		27.94	27.96	28.09	27.95
	High	643334	3650.01	18.90	18.91	18.89	18.85
		646334	3695.01	9.09	9.08	9.14	9.13
		Total		27.99	27.99	28.03	27.98
256QAM	Low	637334	3560.01	18.86	18.89	18.92	18.86
		640334	3605.01	9.10	9.10	9.05	9.08
		Total		27.96	27.99	27.97	27.94
	Middle	640334	3605.01	18.92	8.86	18.88	18.90
		643334	3650.01	9.05	9.07	9.04	9.08
		Total		27.94	27.96	28.09	27.95
	High	643334	3650.01	18.89	18.90	18.89	18.86
		646334	3695.01	9.10	9.09	9.11	9.11
		Total		27.99	27.99	28.00	27.97

Spectrum Plot of Worst Value

Occupied bandwidth

QPSK CH 643334 + CH 646334 (3650.01 MHz + 3695.01 MHz) Ant.0

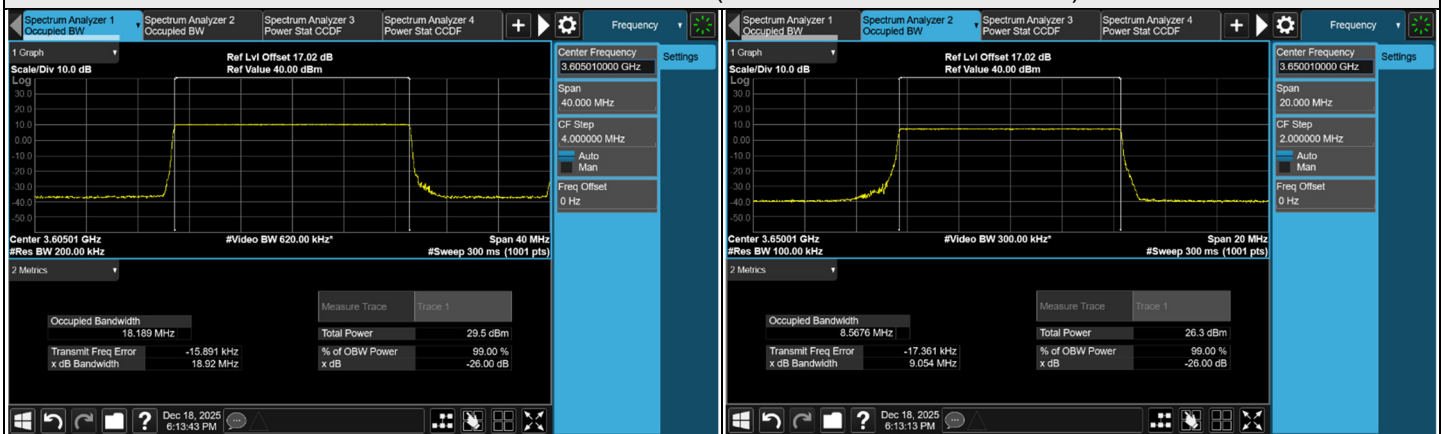


CH 643334 (3650.01 MHz)

CH 646334 (3695.01 MHz)

26 dB Bandwidth

256QAM CH 640334 + CH 643334 (3605.01 MHz + 3650.01 MHz) Ant.0



CH 640334 (3605.01 MHz)

CH 643334 (3650.01 MHz)

2CC-contiguous, Channel Bandwidth: 20 MHz + 20 MHz

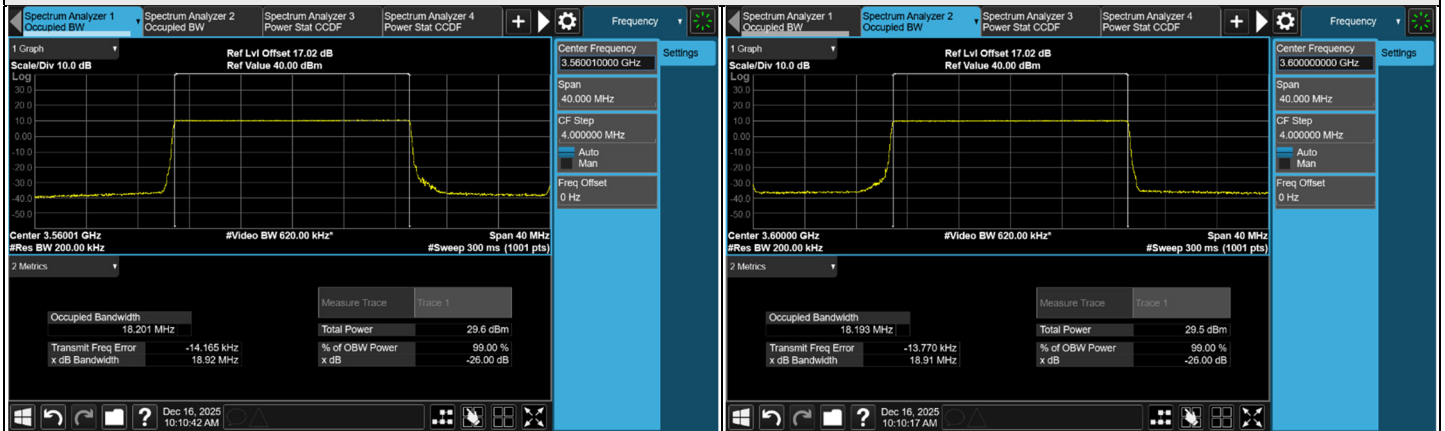
Modulation	Channel		Frequency (MHz)	Occupied Bandwidth (MHz)			
				Ant.0	Ant.1	Ant.2	Ant.3
QPSK	Low	637334	3560.01	18.199	18.180	18.172	18.176
		640000	3600	18.195	18.170	18.172	18.182
		Total		36.394	36.350	36.344	36.358
	Middle	637334	3605.01	18.187	18.171	18.176	18.172
		640000	3645	18.193	18.179	18.175	18.174
		Total		36.380	36.350	36.351	36.346
	High	637334	3650.01	18.199	18.180	18.172	18.181
		640000	3690	18.186	18.169	18.171	18.172
		Total		36.385	36.349	36.343	36.353
64QAM	Low	637334	3560.01	18.201	18.177	18.174	18.176
		640000	3600	18.193	18.174	18.175	18.173
		Total		36.394	36.351	36.349	36.349
	Middle	640334	3605.01	18.188	18.168	18.174	18.173
		643000	3645	18.193	18.183	18.174	18.179
		Total		36.381	36.351	36.348	36.352
	High	643334	3650.01	18.197	18.174	18.173	18.175
		646000	3690	18.187	18.175	18.168	18.178
		Total		36.384	36.349	36.341	36.353
256QAM	Low	637334	3560.01	18.199	18.179	18.174	18.172
		640000	3600	18.194	18.177	18.174	18.174
		Total		36.393	36.356	36.348	36.346
	Middle	640334	3605.01	18.188	18.169	18.174	18.170
		643000	3645	18.195	18.173	18.176	18.168
		Total		36.383	36.342	36.350	36.338
	High	643334	3650.01	18.198	18.172	18.177	18.177
		646000	3690	18.187	18.169	18.167	18.175
		Total		36.385	36.341	36.344	36.352

Modulation	Channel		Frequency (MHz)	26 dB Bandwidth (MHz)			
				Ant.0	Ant.1	Ant.2	Ant.3
QPSK	Low	637334	3560.01	18.90	18.90	18.90	18.91
		640000	3600	18.90	18.89	18.90	18.87
		Total		37.80	37.79	37.80	37.78
	Middle	640334	3605.01	18.90	18.85	18.91	18.91
		643000	3645	18.90	18.87	18.90	18.89
		Total		37.80	37.72	37.81	37.80
	High	643334	3650.01	18.88	18.92	18.90	18.92
		646000	3690	18.92	18.88	18.90	18.88
		Total		37.80	37.80	37.80	37.80
64QAM	Low	637334	3560.01	18.92	18.91	18.93	18.94
		640000	3600	18.91	18.87	18.91	18.88
		Total		37.83	37.78	37.84	37.82
	Middle	640334	3605.01	18.89	18.84	18.87	18.90
		643000	3645	18.92	18.83	18.90	18.90
		Total		37.81	37.67	37.77	37.80
	High	643334	3650.01	18.89	18.87	18.91	18.89
		646000	3690	18.90	18.91	18.89	18.90
		Total		37.79	37.78	37.80	37.79
256QAM	Low	637334	3560.01	18.90	18.91	18.93	18.91
		640000	3600	18.92	18.89	18.92	18.87
		Total		37.82	37.80	37.85	37.78
	Middle	640334	3605.01	18.88	18.84	18.87	18.90
		643000	3645	18.93	18.85	18.92	18.87
		Total		37.81	37.69	37.79	37.77
	High	643334	3650.01	18.90	18.88	18.92	18.87
		646000	3690	18.90	18.91	18.90	18.90
		Total		37.80	37.79	37.82	37.77

Spectrum Plot of Worst Value

Occupied bandwidth

64QAM CH 637334 + CH 640000 (3560.01 MHz + 3600 MHz) Ant.0

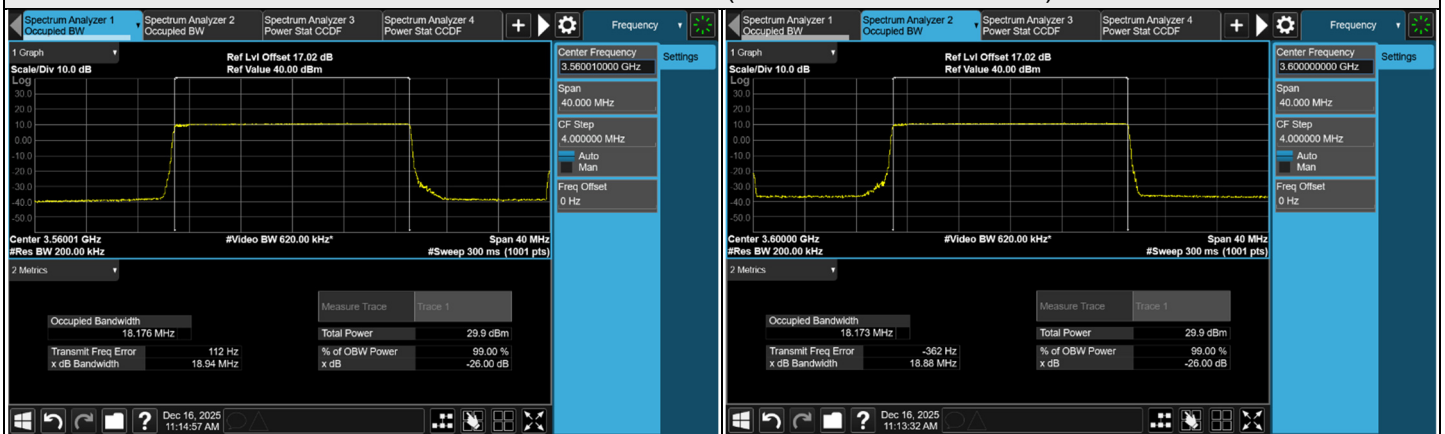


CH 637334 (3560.01 MHz)

CH 640000 (3600 MHz)

26 dB Bandwidth

64QAM CH 637334 + CH 640000 (3560.01 MHz + 3600 MHz) Ant.3



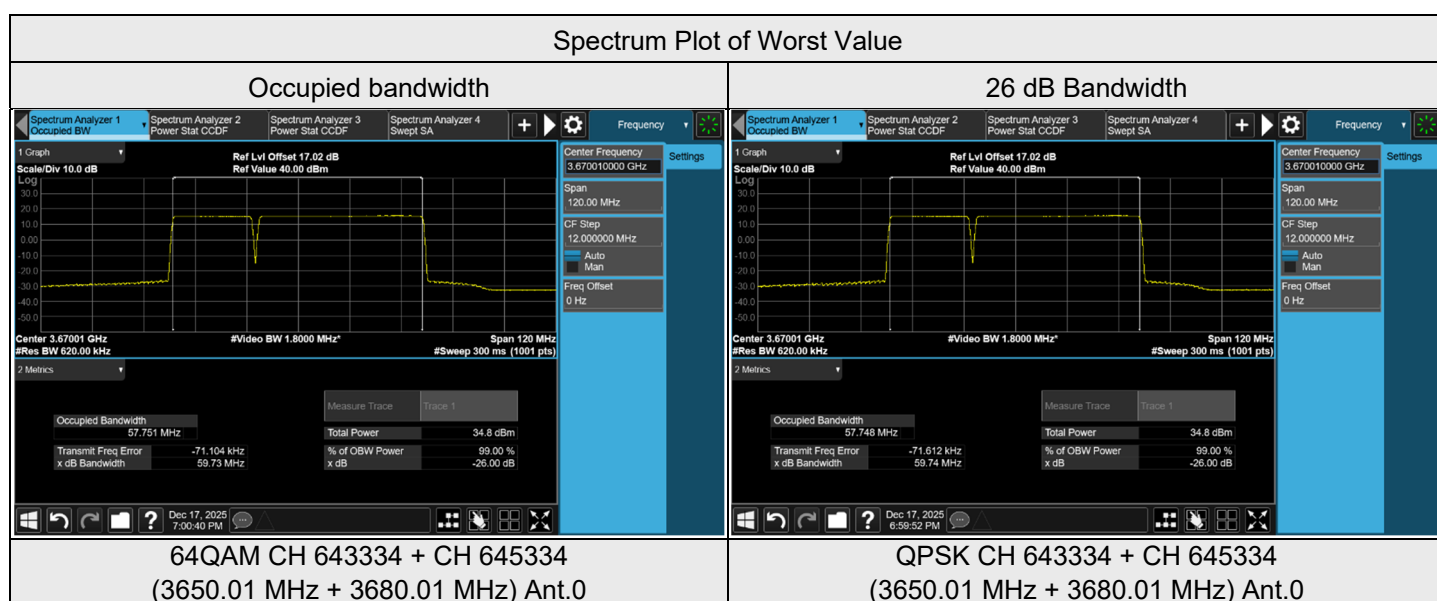
CH 637334 (3560.01 MHz)

CH 640000 (3600 MHz)

2CC-contiguous, Channel Bandwidth: 20 MHz + 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334+639334	3560.01+3590.01	57.736	57.670	57.658	57.644
	640334+642334	3605.01+3635.01	57.719	57.690	57.700	57.699
	643334+645334	3650.01+3680.01	57.748	57.657	57.664	57.687
64QAM	637334+639334	3560.01+3590.01	57.731	57.672	57.662	57.645
	640334+642334	3605.01+3635.01	57.716	57.700	57.708	57.693
	643334+645334	3650.01+3680.01	57.751	57.665	57.663	57.687
256QAM	637334+639334	3560.01+3590.01	57.733	57.680	57.654	57.647
	640334+642334	3605.01+3635.01	57.716	57.695	57.714	57.693
	643334+645334	3650.01+3680.01	57.747	57.666	57.672	57.694

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334+639334	3560.01+3590.01	59.73	59.68	59.73	59.67
	640334+642334	3605.01+3635.01	59.73	59.70	59.70	59.70
	643334+645334	3650.01+3680.01	59.74	59.71	59.69	59.69
64QAM	637334+639334	3560.01+3590.01	59.73	59.68	59.72	59.72
	640334+642334	3605.01+3635.01	59.72	59.70	59.70	59.70
	643334+645334	3650.01+3680.01	59.73	59.71	59.71	59.67
256QAM	637334+639334	3560.01+3590.01	59.73	59.70	59.68	59.68
	640334+642334	3605.01+3635.01	59.72	59.70	59.71	59.70
	643334+645334	3650.01+3680.01	59.74	59.70	59.70	59.70



2CC-non-contiguous, Channel Bandwidth: 10 MHz + 20 MHz

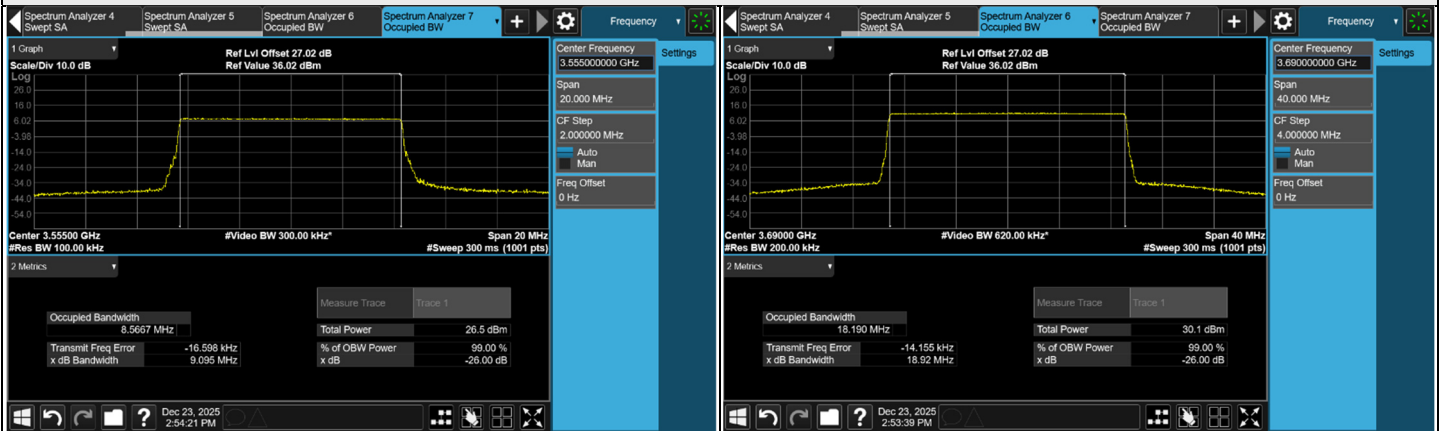
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637000	3555	8.567	8.565	8.562	8.562
	646000	3690	18.189	18.172	18.168	18.177
	Total		26.756	26.737	26.730	26.739
64QAM	637000	3555	8.565	8.559	8.563	8.558
	646000	3690	18.189	18.169	18.167	18.183
	Total		26.754	26.728	26.730	26.741
256QAM	637000	3555	8.567	8.563	8.564	8.561
	646000	3690	18.190	18.170	18.171	18.181
	Total		26.757	26.733	26.735	26.742

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637000	3555	9.09	9.05	9.14	9.11
	646000	3690	18.93	18.90	18.88	18.89
	Total		28.02	27.95	28.02	28.00
64QAM	637000	3555	9.09	9.08	9.07	9.11
	646000	3690	18.93	18.89	18.86	18.91
	Total		28.02	27.97	27.93	28.02
256QAM	637000	3555	9.10	9.08	9.10	9.11
	646000	3690	18.92	18.88	18.87	18.88
	Total		28.02	27.96	27.97	27.99

Spectrum Plot of Worst Value

Occupied bandwidth

256QAM CH 637000 + CH 646000 (3555 MHz + 3690 MHz) Ant.0

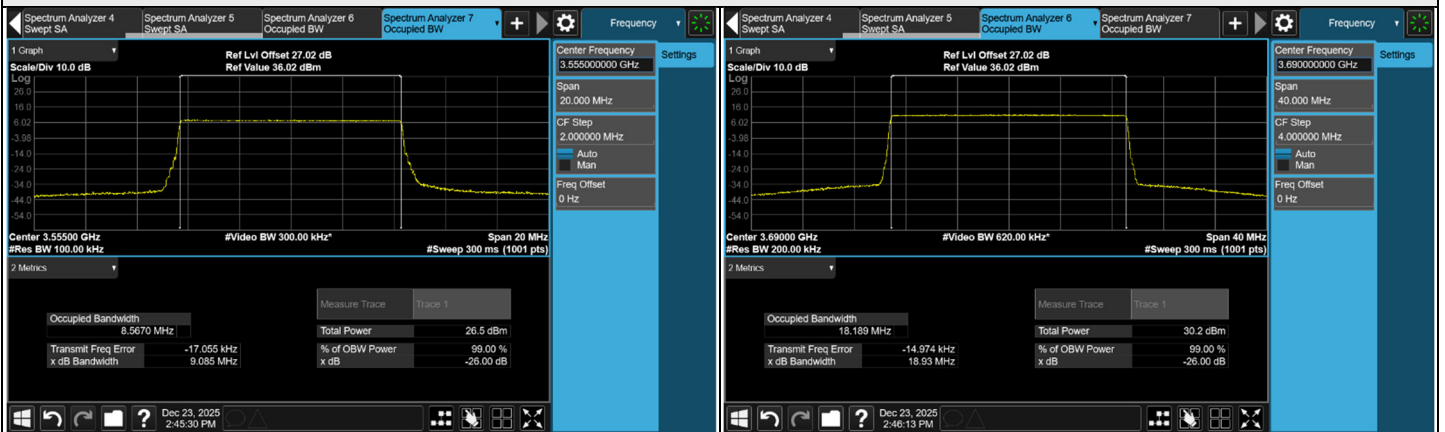


CH 637000 (3555 MHz)

CH 646000 (3690 MHz)

26 dB Bandwidth

QPSK CH 637000 + CH 646000 (3555 MHz + 3690 MHz) Ant.0



CH 637000 (3555 MHz)

CH 646000 (3690 MHz)

2CC-non-contiguous, Channel Bandwidth: 20 MHz + 10 MHz

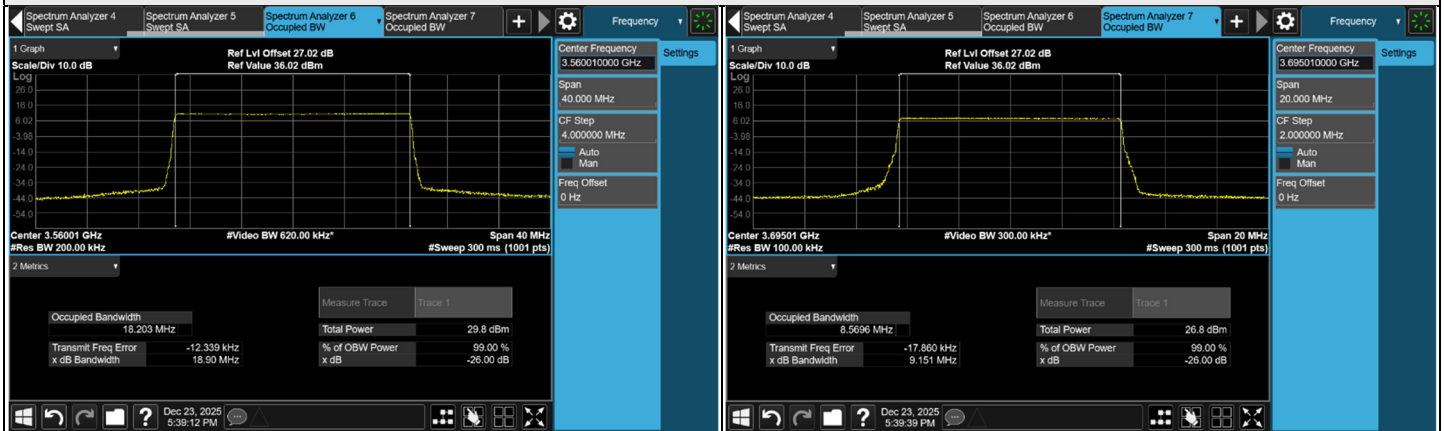
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.203	18.182	18.187	18.165
	646334	3695.01	8.570	8.563	8.562	8.564
	Total		26.773	26.745	26.749	26.729
64QAM	637334	3560.01	18.201	18.183	18.183	18.180
	646334	3695.01	8.569	8.563	8.564	8.563
	Total		26.770	26.746	26.747	26.743
256QAM	637334	3560.01	18.201	18.184	18.180	18.176
	646334	3695.01	8.567	8.563	8.558	8.559
	Total		26.768	26.747	26.738	26.735

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.90	18.89	18.88	18.87
	646334	3695.01	9.15	9.06	9.11	9.08
	Total		28.05	27.95	27.99	27.95
64QAM	637334	3560.01	18.92	18.90	18.90	18.89
	646334	3695.01	9.16	9.06	9.12	9.08
	Total		28.08	27.96	28.02	27.97
256QAM	637334	3560.01	18.88	18.90	18.89	18.91
	646334	3695.01	9.12	9.09	9.10	9.07
	Total		28.00	27.99	27.99	27.98

Spectrum Plot of Worst Value

Occupied bandwidth

QPSK CH 637334 + CH 646334 (3560.01 MHz + 3695.01 MHz) Ant.0

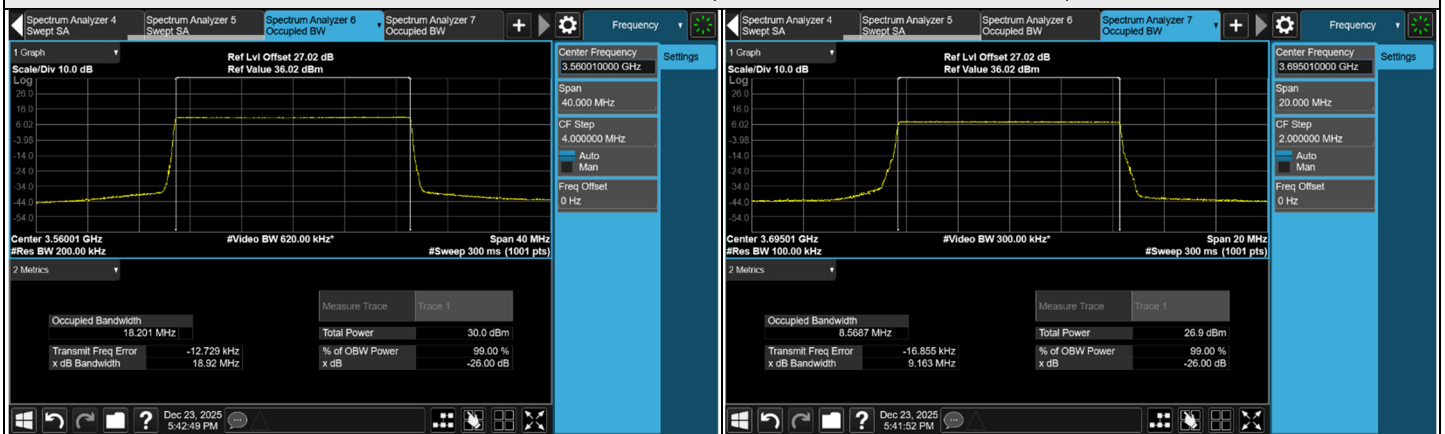


CH 637334 (3560.01 MHz)

CH 646334 (3695.01 MHz)

26 dB Bandwidth

64QAM CH 637334 + CH 646334 (3560.01 MHz + 3695.01 MHz) Ant.0



CH 637334 (3560.01 MHz)

CH 646334 (3695.01 MHz)

2CC-non-contiguous, Channel Bandwidth: 20 MHz + 20 MHz

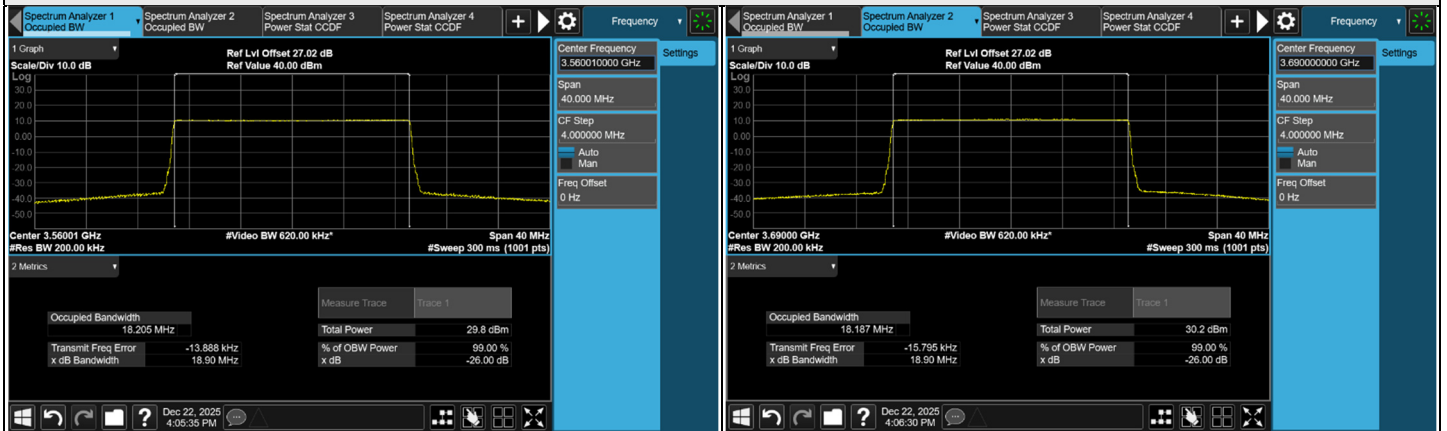
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.203	18.183	18.187	18.191
	646000	3690	18.187	18.173	18.189	18.191
	Total		36.390	36.356	36.376	36.382
64QAM	637334	3560.01	18.203	18.178	18.185	18.192
	646000	3690	18.187	18.177	18.188	18.188
	Total		36.390	36.355	36.373	36.380
256QAM	637334	3560.01	18.205	18.180	18.189	18.193
	646000	3690	18.187	18.174	18.188	18.190
	Total		36.392	36.354	36.377	36.383

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.90	18.90	18.89	18.92
	646000	3690	18.91	18.87	18.89	18.89
	Total		37.81	37.77	37.78	37.81
64QAM	637334	3560.01	18.90	18.90	18.89	18.91
	646000	3690	18.91	18.88	18.88	18.87
	Total		37.81	37.78	37.77	37.78
256QAM	637334	3560.01	18.90	18.91	18.92	18.90
	646000	3690	18.90	18.86	18.88	18.88
	Total		37.80	37.77	37.80	37.78

Spectrum Plot of Worst Value

Occupied bandwidth

256QAM CH 637334 + CH 646000 (3560.01 MHz + 3690 MHz) Ant.0

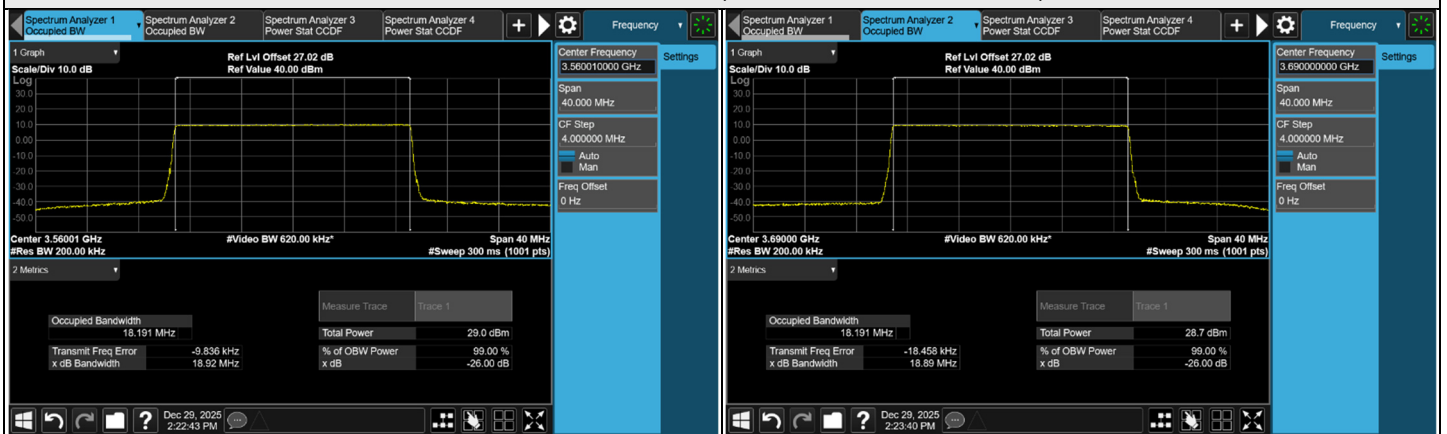


CH 637334 (3560.01 MHz)

CH 646000 (3690 MHz)

26 dB Bandwidth

QPSK CH 637334 + CH 646000 (3560.01 MHz + 3690 MHz) Ant.3



CH 637334 (3560.01 MHz)

CH 646000 (3690 MHz)

2CC-non-contiguous, Channel Bandwidth: 20 MHz + 40 MHz

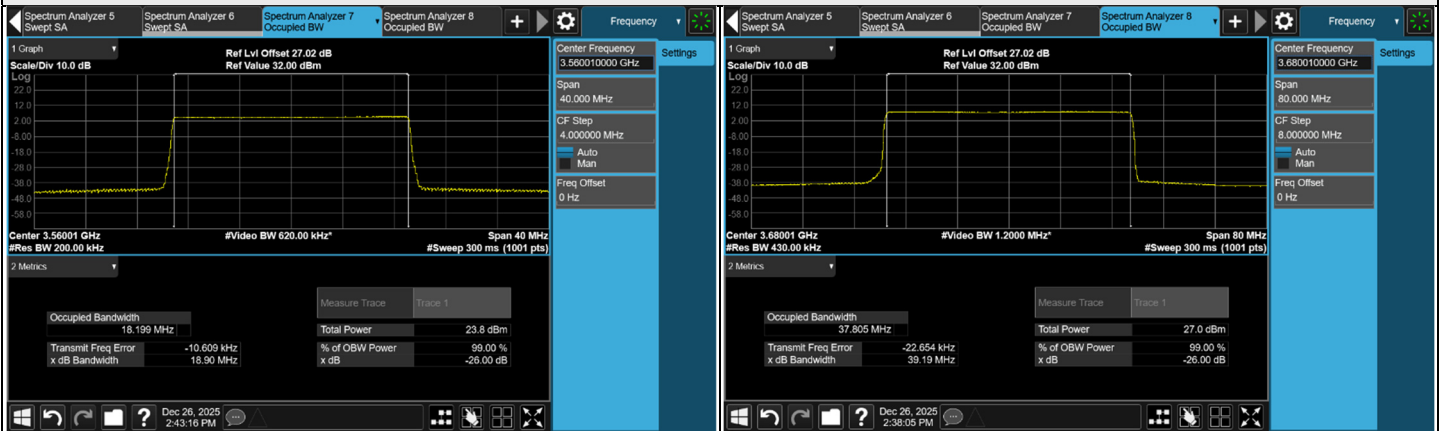
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.199	18.187	18.182	18.176
	645334	3680.01	37.805	37.761	37.769	37.764
	Total		56.004	55.948	55.951	55.940
64QAM	637334	3560.01	18.200	18.189	18.177	18.178
	645334	3680.01	37.802	37.763	37.767	37.762
	Total		56.002	55.952	55.944	55.940
256QAM	637334	3560.01	18.198	18.188	18.178	18.172
	645334	3680.01	37.802	37.761	37.766	37.763
	Total		56.000	55.949	55.944	55.935

Modulation	Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
			Ant.0	Ant.1	Ant.2	Ant.3
QPSK	637334	3560.01	18.90	18.89	18.90	18.90
	645334	3680.01	39.19	39.18	39.19	39.18
	Total		58.09	58.07	58.09	58.08
64QAM	637334	3560.01	18.91	18.88	18.89	18.91
	645334	3680.01	39.18	39.19	39.17	39.18
	Total		58.09	58.07	58.06	58.09
256QAM	637334	3560.01	18.90	18.88	18.90	18.90
	645334	3680.01	39.20	39.18	39.20	39.19
	Total		58.10	58.06	58.10	58.00

Spectrum Plot of Worst Value

Occupied bandwidth

QPSK CH 637334 + CH 645334 (3560.01 MHz + 3680.01 MHz) Ant.0

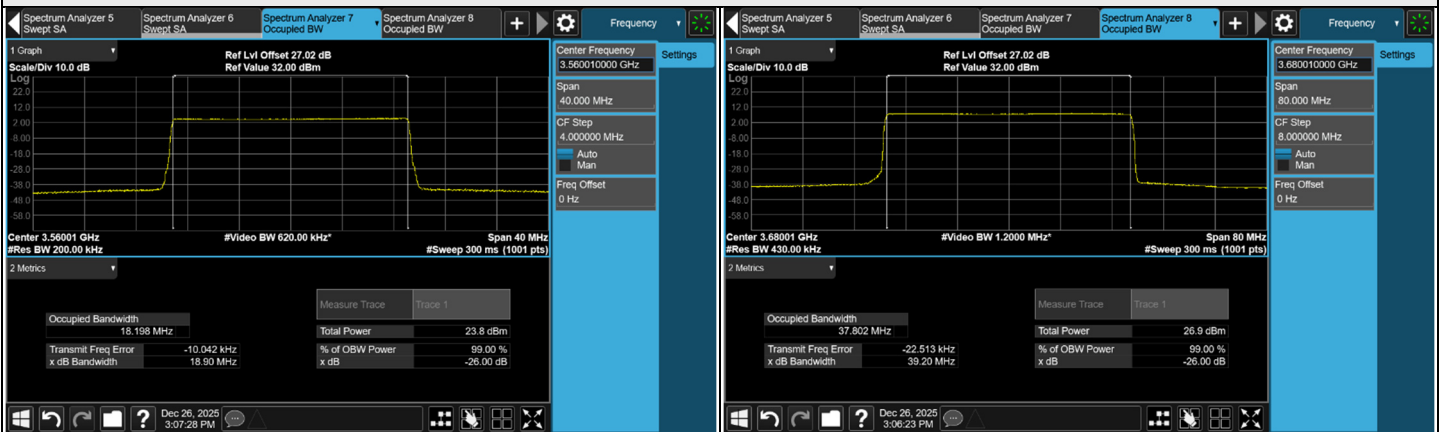


CH 637334 (3560.01 MHz)

CH 645334 (3680.01 MHz)

26 dB Bandwidth

256QAM CH 637334 + CH 645334 (3560.01 MHz + 3680.01 MHz) Ant.0



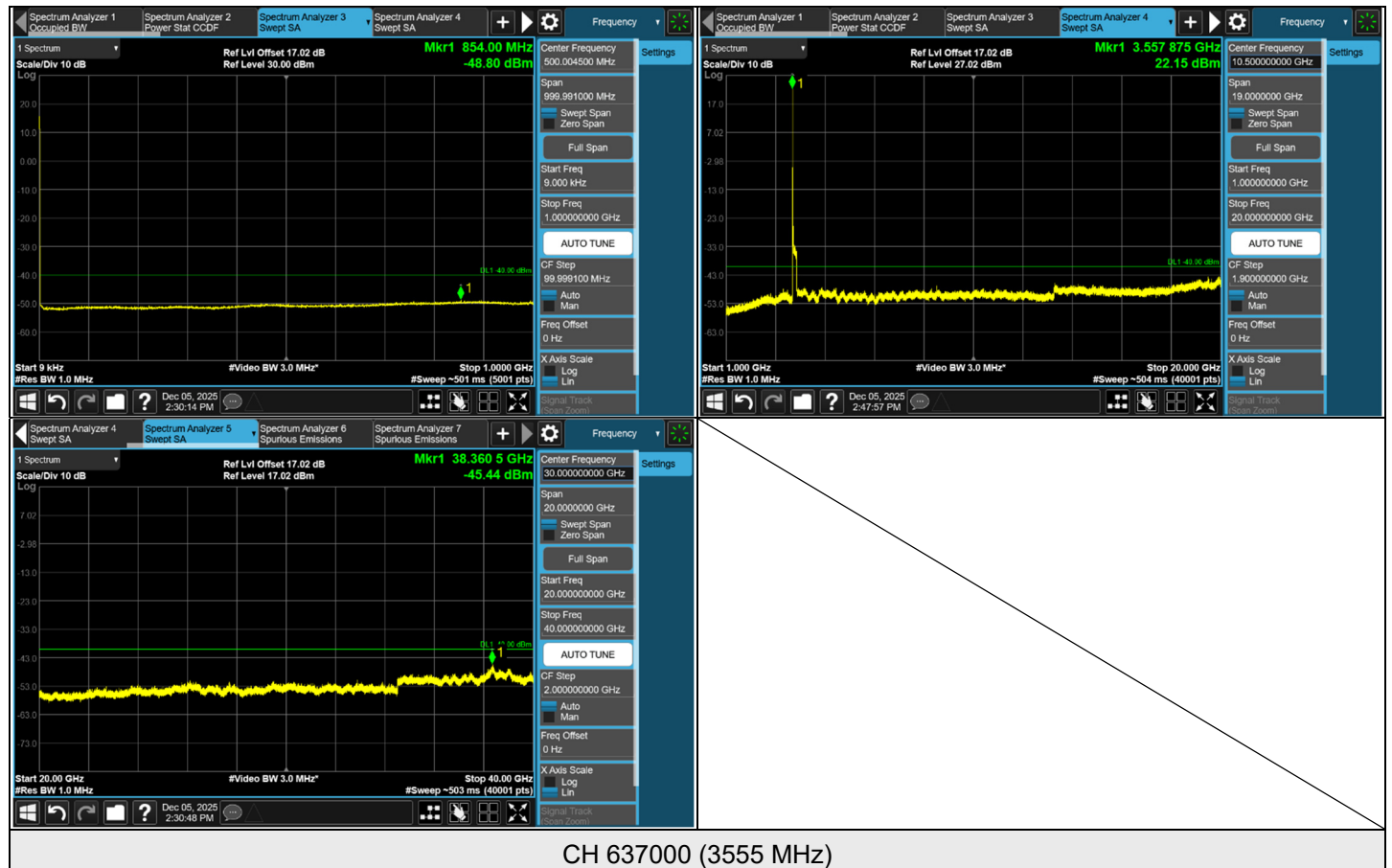
CH 645334 (3680.01 MHz)

7.6 Conducted Spurious Emissions

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 73% RH	Tested By:	Noah Chang
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7.6.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

1CC, Channel Bandwidth: 10 MHz, Ant.0



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