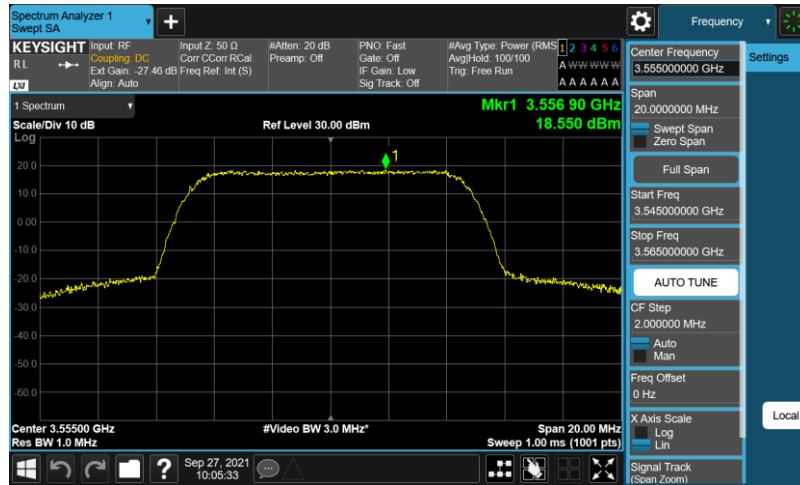
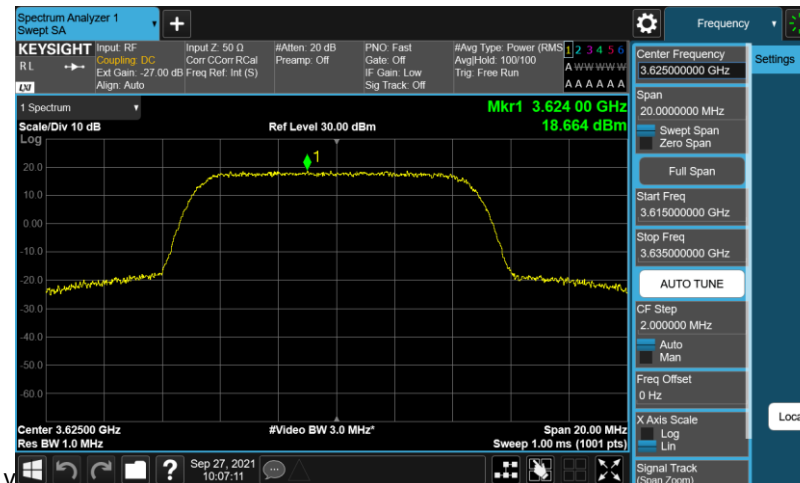


Test Graphs

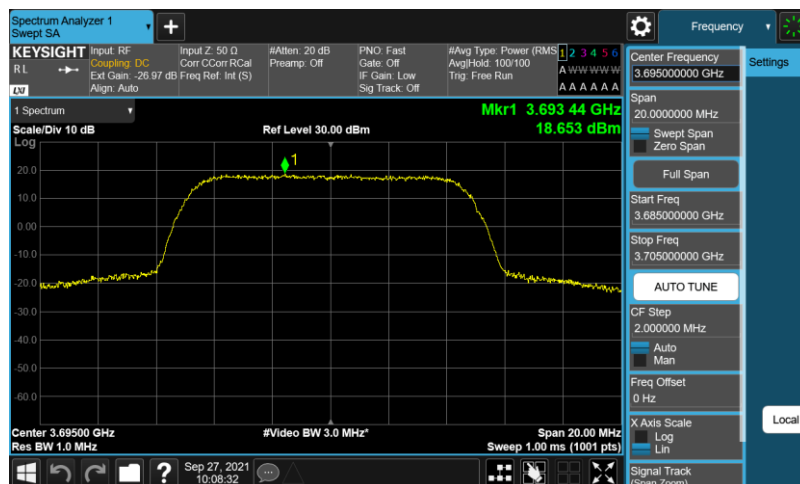
Band48-10MHz-256QAM-55290-E-TM3.1A



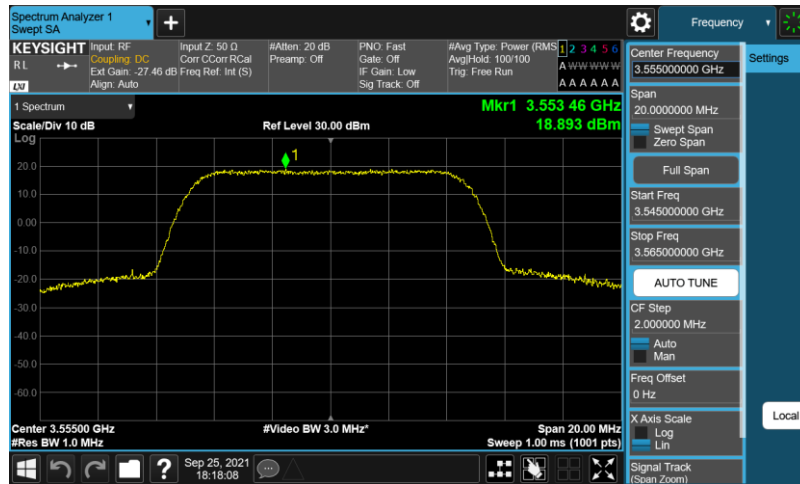
Band48-10MHz-256QAM-55990-E-TM3.1A



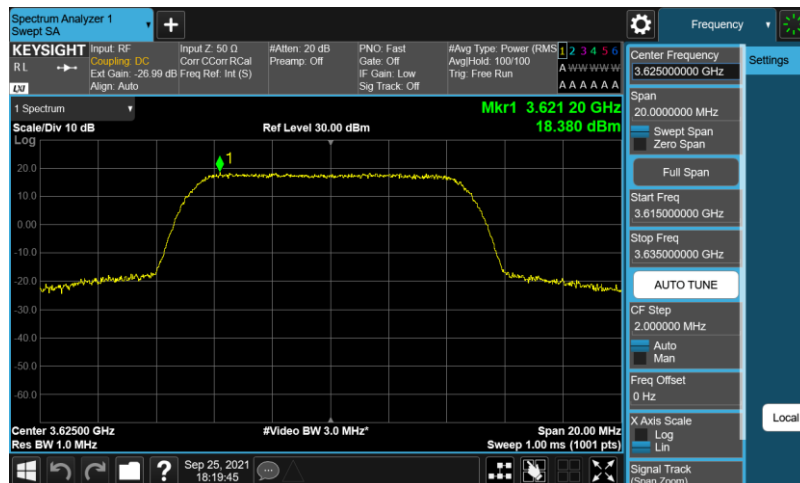
Band48-10MHz-256QAM-56690-E-TM3.1A



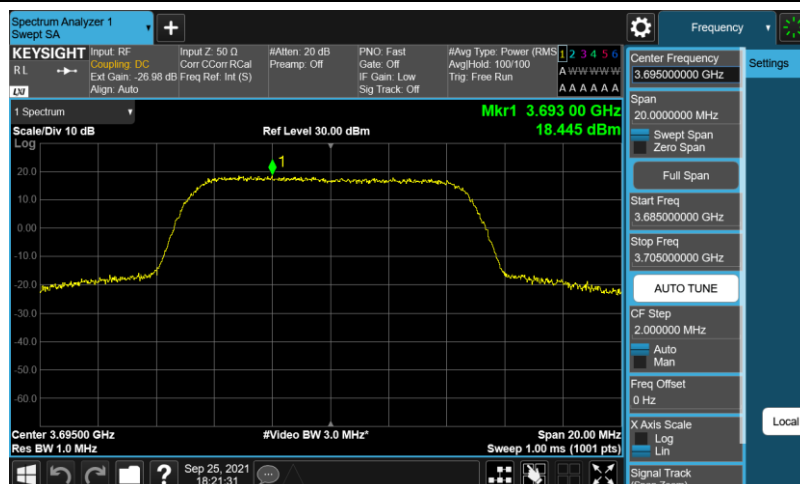
Band48-10MHz-QPSK-55290-E-TM1.1



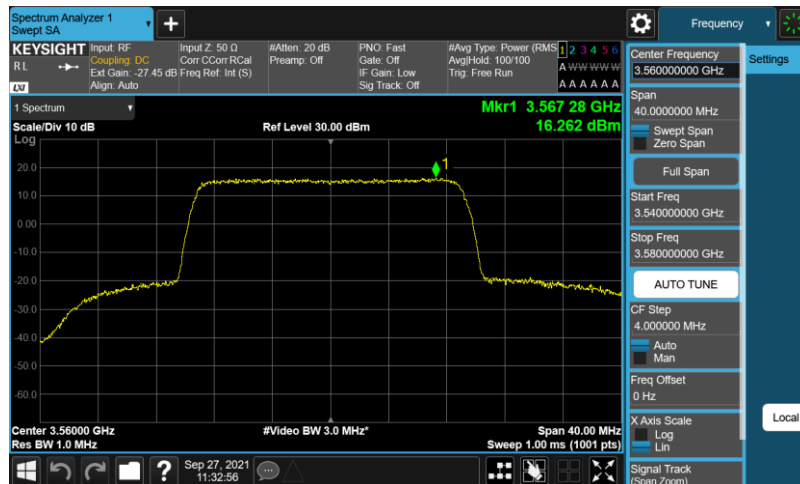
Band48-10MHz-QPSK-55990-E-TM1.1



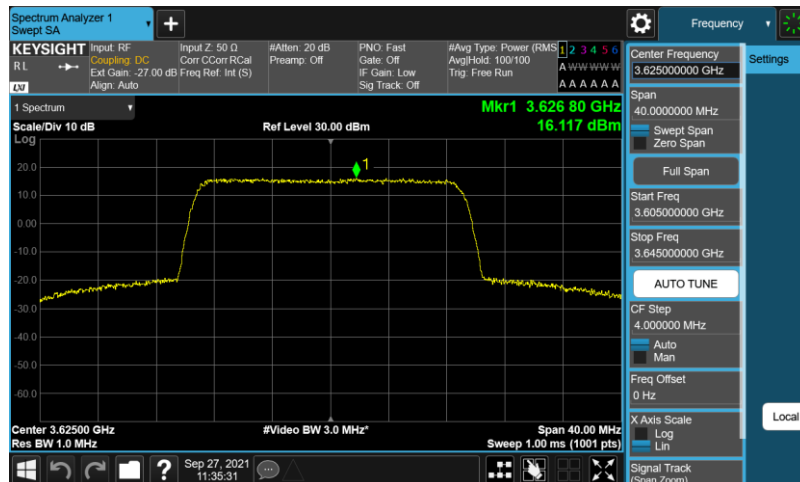
Band48-10MHz-QPSK-56690-E-TM1.1



Band48-20MHz-256QAM-55340-E-TM3.1A



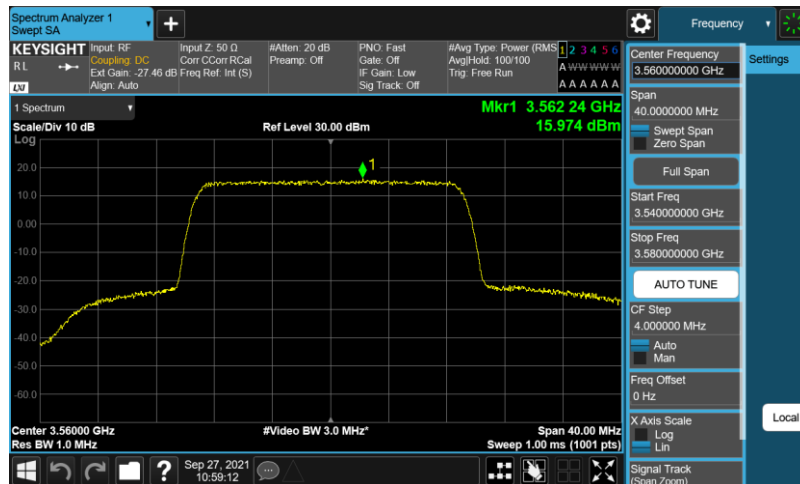
Band48-20MHz-256QAM-55990-E-TM3.1A



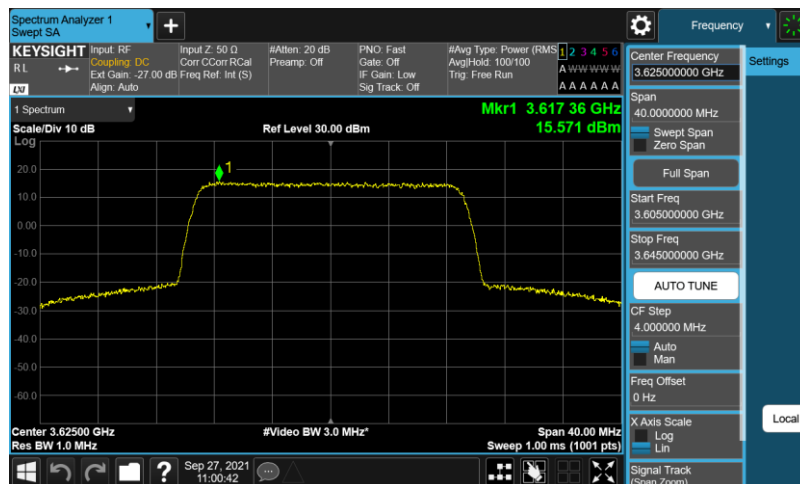
Band48-20MHz-256QAM-56640-E-TM3.1A



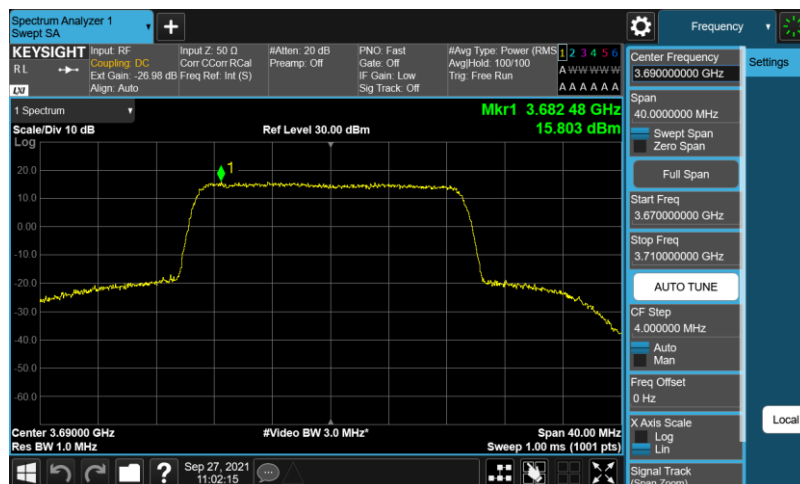
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



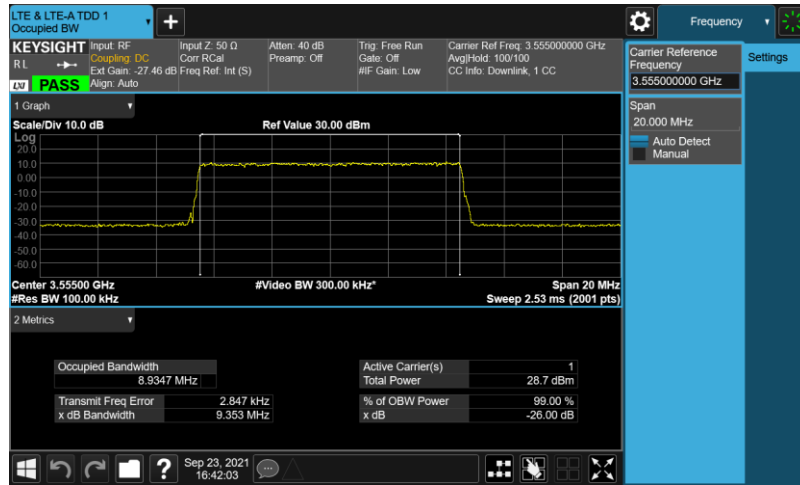
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

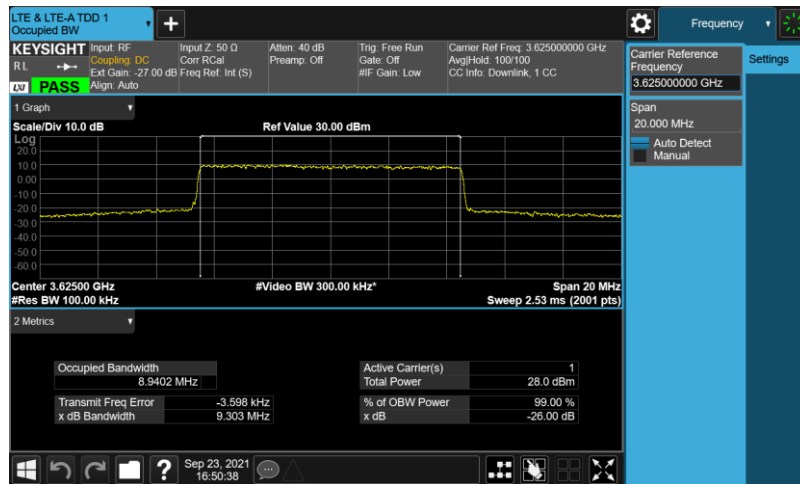
Band	Bandwidth	Modulation	Channel	Mode	99%(MHz)	EBW(MHz)
Band48	10MHz	256QAM	55290	E-TM3.1A	8.9347	9.353
Band48	10MHz	256QAM	55990	E-TM3.1A	8.9402	9.303
Band48	10MHz	256QAM	56690	E-TM3.1A	8.9557	9.393
Band48	10MHz	QPSK	55290	E-TM1.1	8.9303	9.398
Band48	10MHz	QPSK	55990	E-TM1.1	8.9390	9.358
Band48	10MHz	QPSK	56690	E-TM1.1	8.9418	9.357
Band48	20MHz	256QAM	55340	E-TM3.1A	17.842	18.51
Band48	20MHz	256QAM	55990	E-TM3.1A	17.874	18.50
Band48	20MHz	256QAM	56640	E-TM3.1A	17.836	18.57
Band48	20MHz	QPSK	55340	E-TM1.1	17.853	18.61
Band48	20MHz	QPSK	55990	E-TM1.1	17.874	18.62
Band48	20MHz	QPSK	56640	E-TM1.1	17.861	18.56

Test Graphs

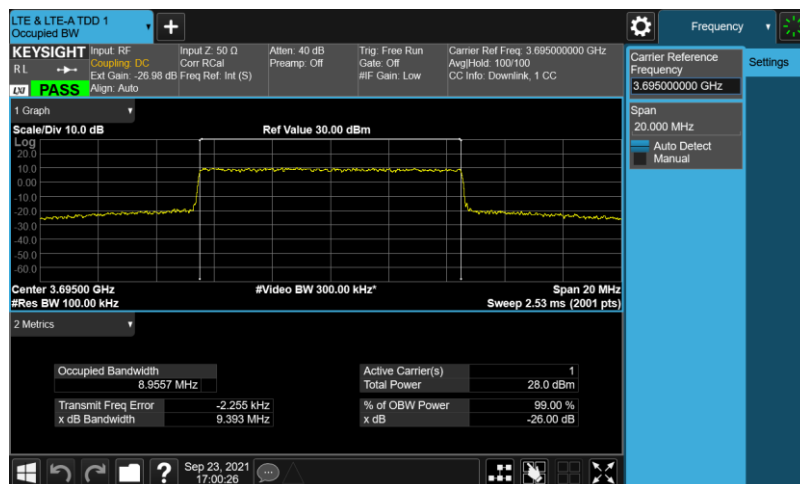
Band48-10MHz-256QAM-55290-E-TM3.1A



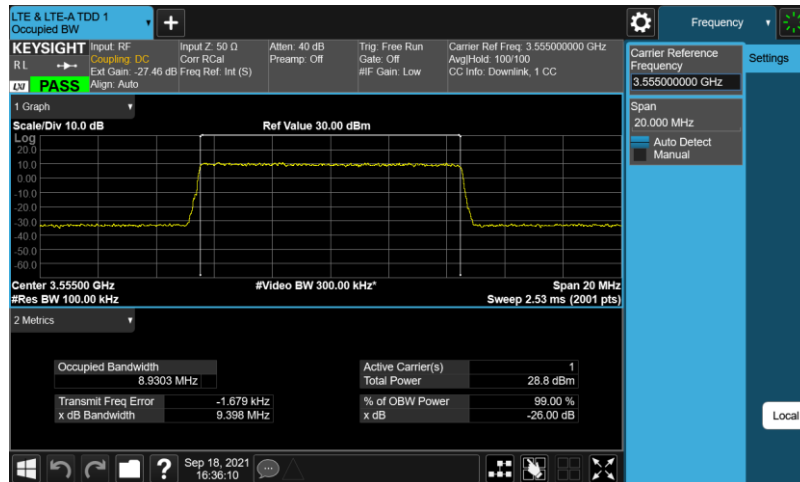
Band48-10MHz-256QAM-55990-E-TM3.1A



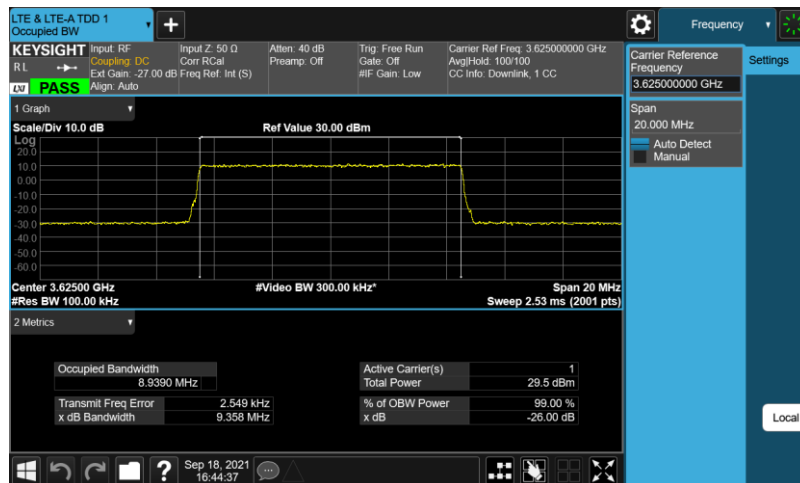
Band48-10MHz-256QAM-56690-E-TM3.1A



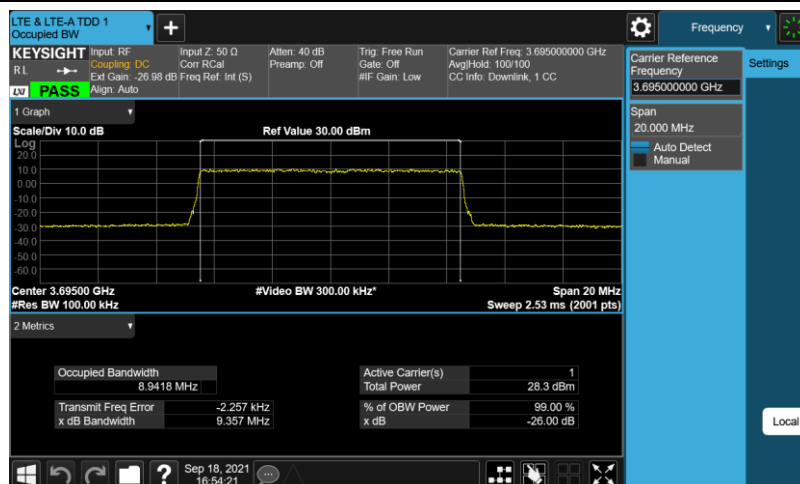
Band48-10MHz-QPSK-55290-E-TM1.1



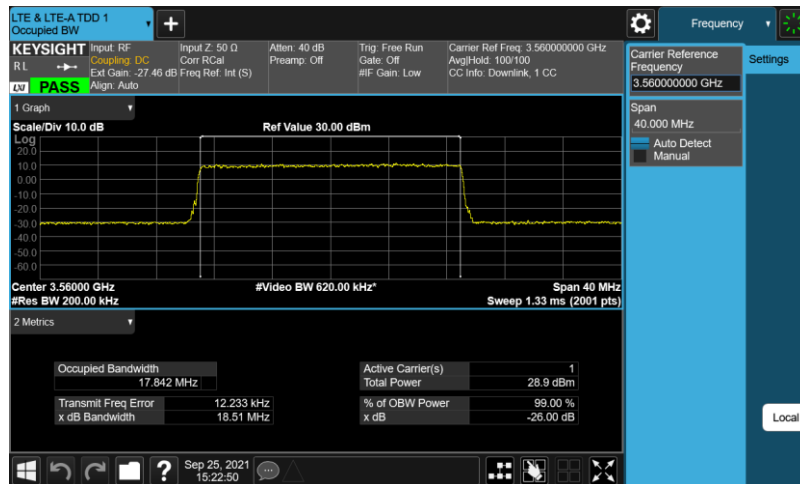
Band48-10MHz-QPSK-55990-E-TM1.1



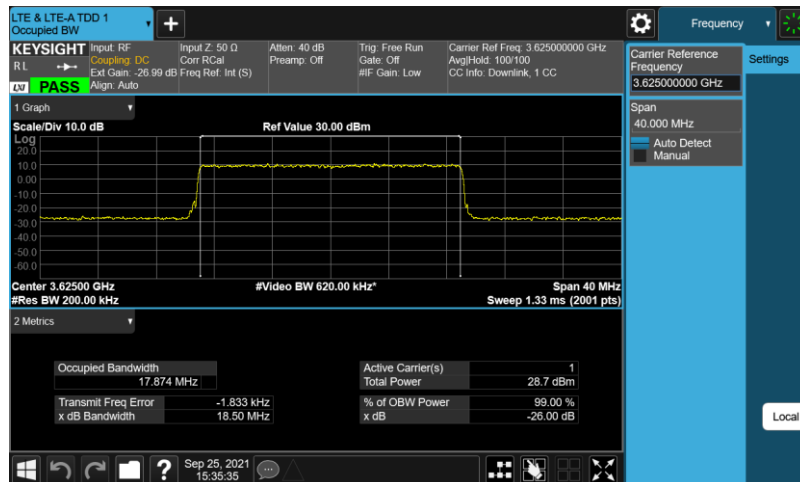
Band48-10MHz-QPSK-56690-E-TM1.1



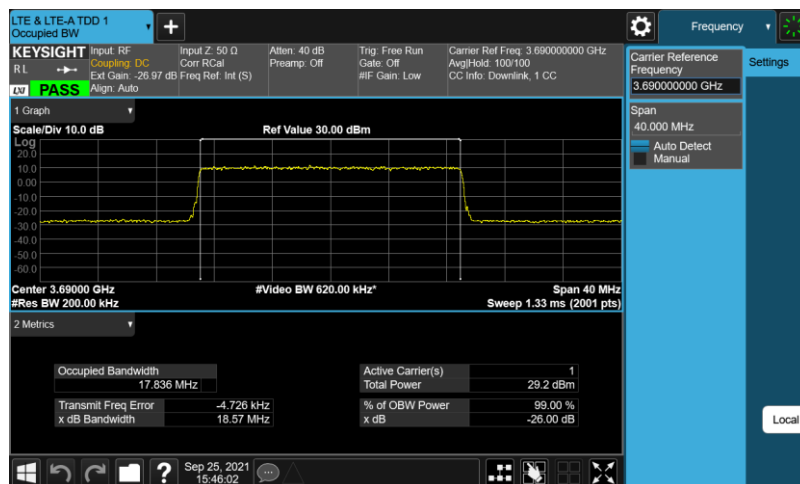
Band48-20MHz-256QAM-55340-E-TM3.1A



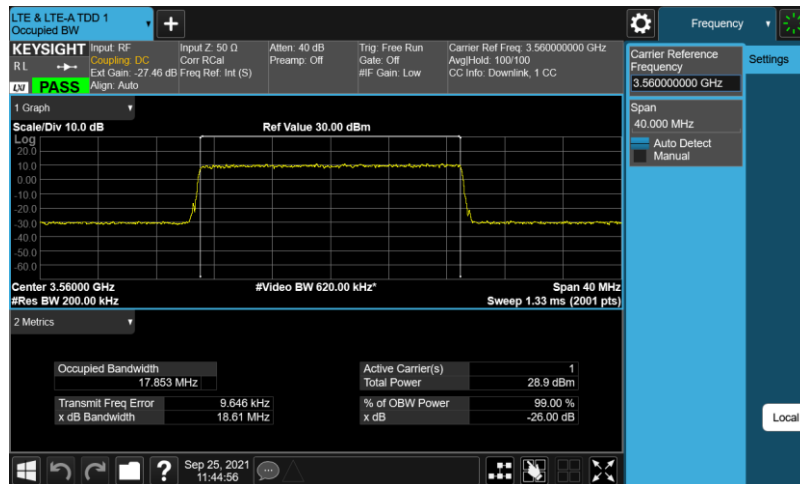
Band48-20MHz-256QAM-55990-E-TM3.1A



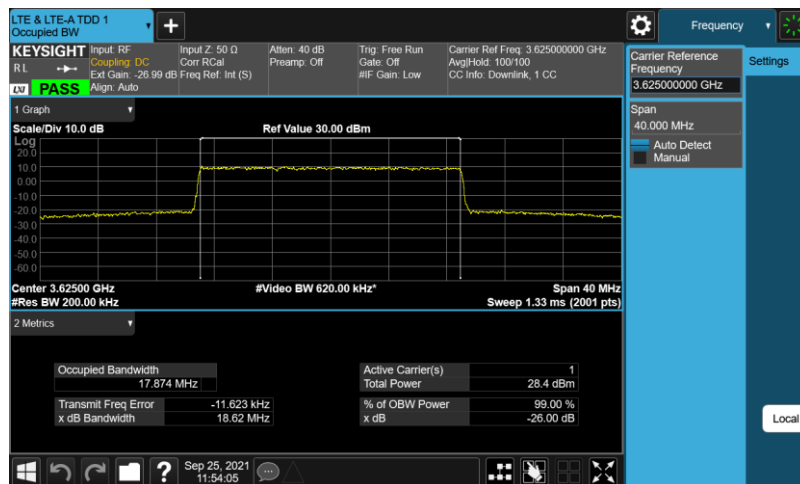
Band48-20MHz-256QAM-56640-E-TM3.1A



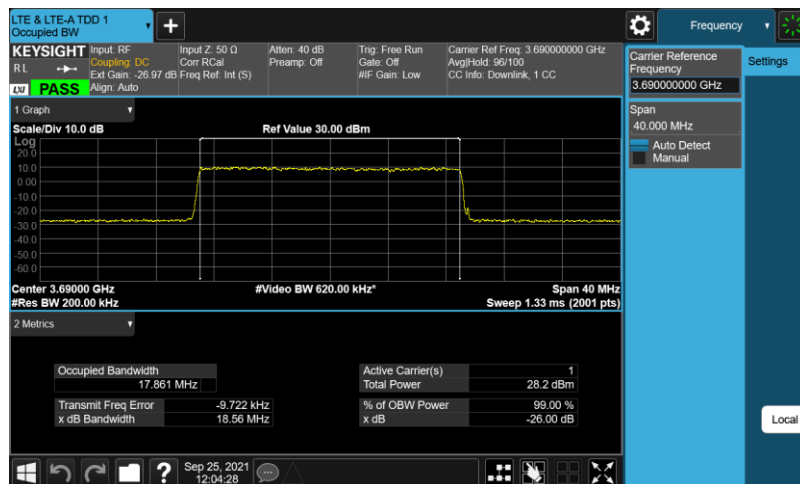
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



Appendix D: Frequency Stability

Test Result

Voltage measurement									
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Band48	10MHz	256QAM	55990	E-TM3.1A	102	25	66	0.018	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	25	68	0.019	
Band48	10MHz	256QAM	55990	E-TM3.1A	138	25	74	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	102	25	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	25	72	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	138	25	68	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	102	25	75	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	25	72	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	138	25	68	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	102	25	68	0.018	
Band48	20MHz	QPSK	55990	E-TM1.1	120	25	77	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	138	25	65	0.020	

Temperature measurement									
Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vac]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-30	76	0.021	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-20	66	0.018	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-10	68	0.019	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	0	66	0.018	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	10	77	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	20	76	0.021	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	30	80	0.022	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	40	82	0.023	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	50	82	0.023	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-30	72	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-20	78	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-10	79	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	120	0	72	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	10	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	20	77	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	30	77	0.021	

Band48	10MHz	QPSK	55990	E-TM1.1	120	40	80	0.022	
Band48	10MHz	QPSK	55990	E-TM1.1	120	50	78	0.022	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-30	78	0.022	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-20	76	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-10	73	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	0	68	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	10	71	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	20	77	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	30	73	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	40	75	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	50	78	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-30	72	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-20	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-10	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	0	78	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	120	10	77	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	20	82	0.023	
Band48	20MHz	QPSK	55990	E-TM1.1	120	30	80	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	120	40	78	0.022	
Band48	20MHz	QPSK	55990	E-TM1.1	120	50	75	0.021	

Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

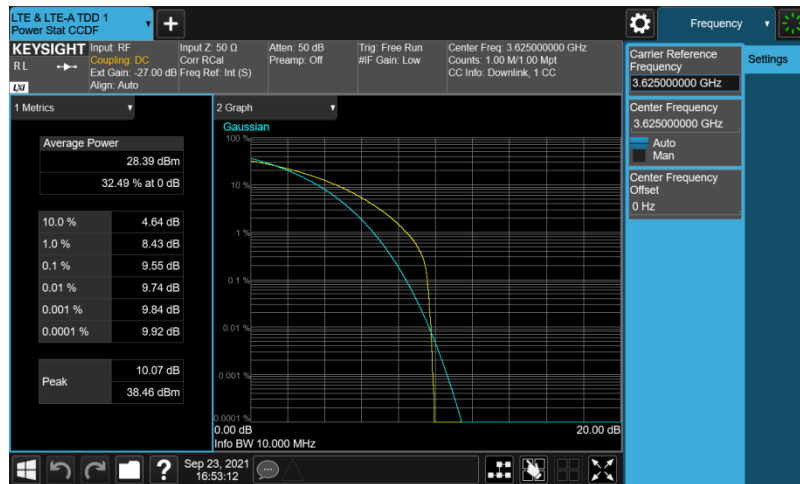
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band48	10MHz	256QAM	55290	E-TM3.1A	9.08
Band48	10MHz	256QAM	55990	E-TM3.1A	9.55
Band48	10MHz	256QAM	56690	E-TM3.1A	9.49
Band48	10MHz	QPSK	55290	E-TM1.1	9.02
Band48	10MHz	QPSK	55990	E-TM1.1	8.99
Band48	10MHz	QPSK	56690	E-TM1.1	8.91
Band48	20MHz	256QAM	55340	E-TM3.1A	8.93
Band48	20MHz	256QAM	55990	E-TM3.1A	9.58
Band48	20MHz	256QAM	56640	E-TM3.1A	8.75
Band48	20MHz	QPSK	55340	E-TM1.1	8.78
Band48	20MHz	QPSK	55990	E-TM1.1	9.00
Band48	20MHz	QPSK	56640	E-TM1.1	9.30

Test Graphs

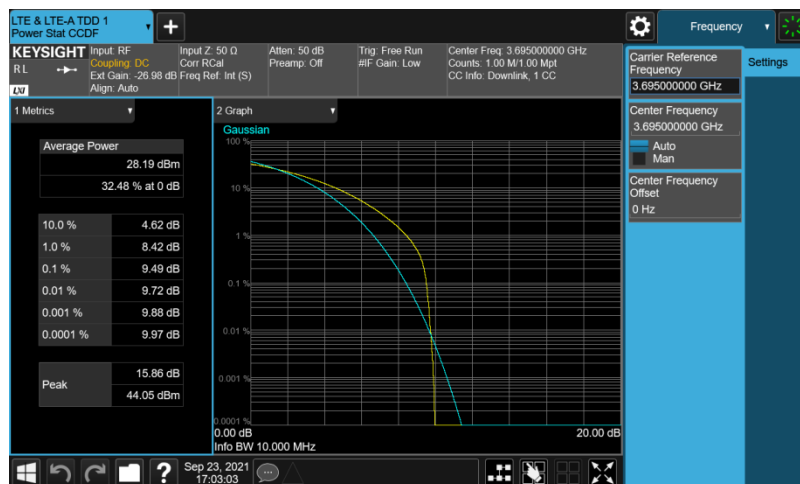
Band48-10MHz-256QAM-55290-E-TM3.1A



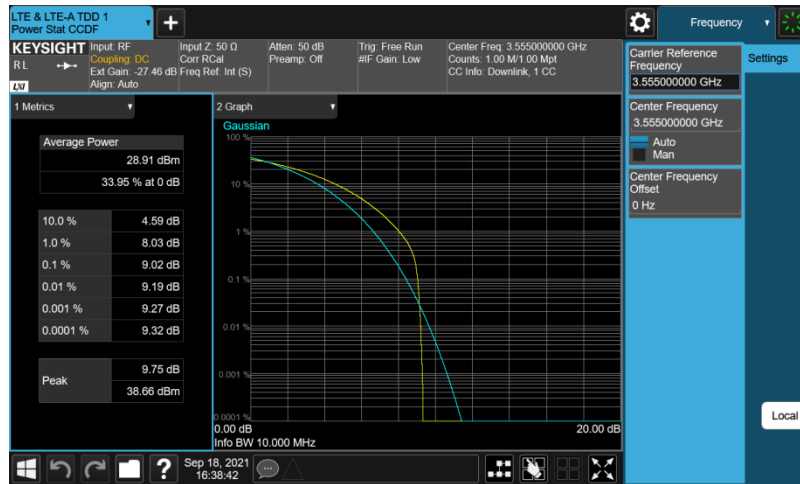
Band48-10MHz-256QAM-55990-E-TM3.1A



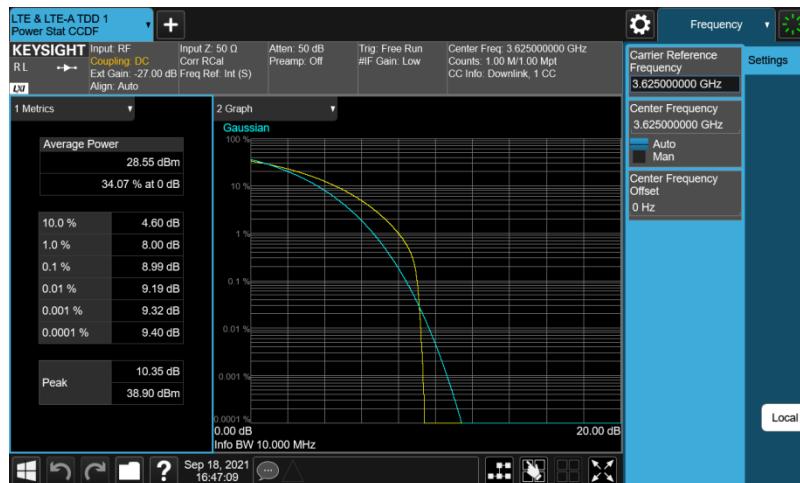
Band48-10MHz-256QAM-56690-E-TM3.1A



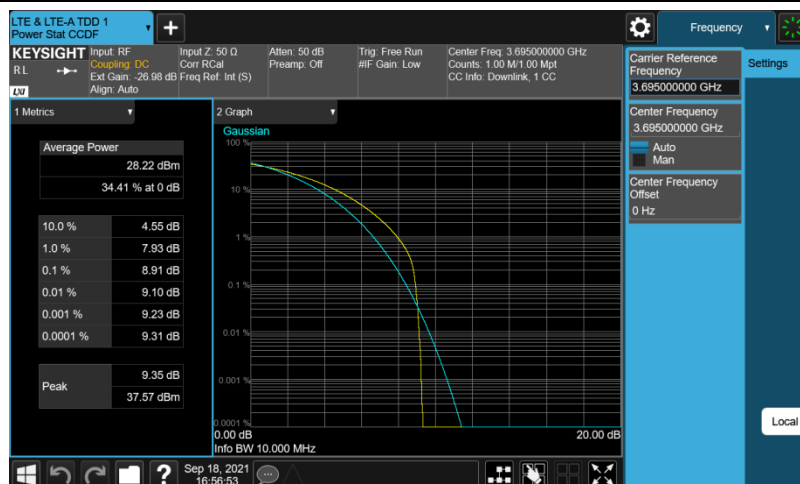
Band48-10MHz-QPSK-55290-E-TM1.1



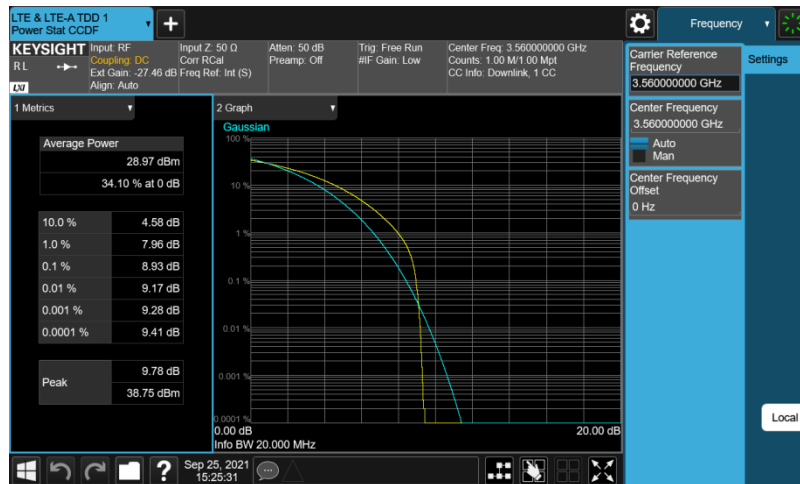
Band48-10MHz-QPSK-55990-E-TM1.1



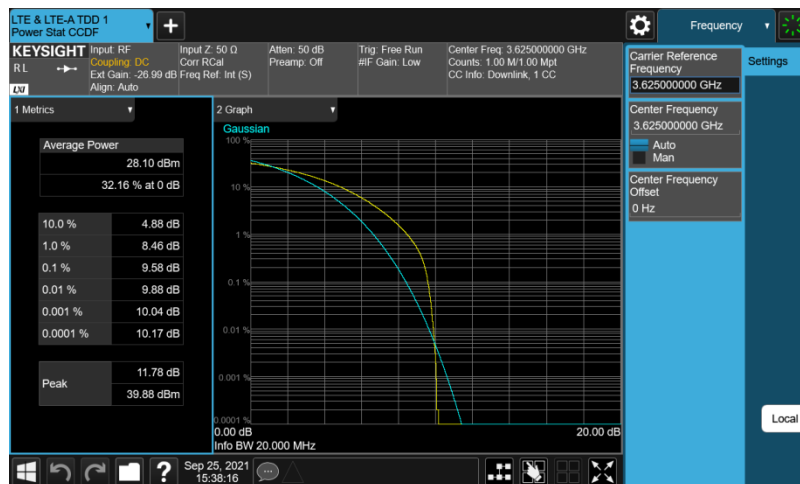
Band48-10MHz-QPSK-56690-E-TM1.1



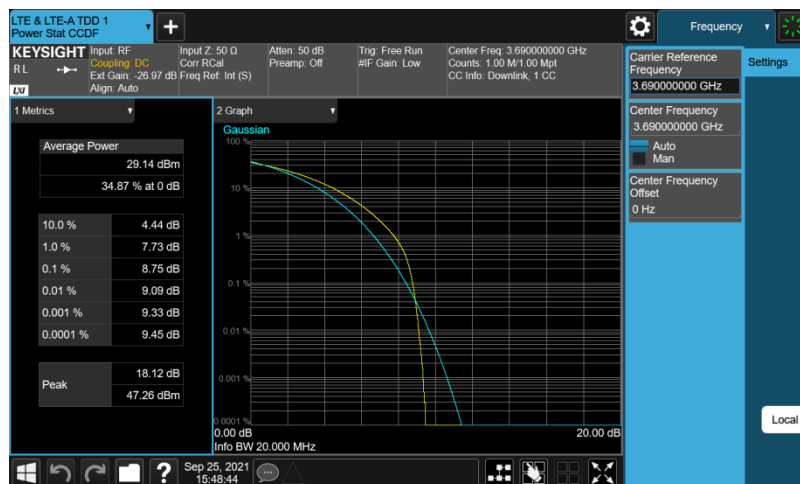
Band48-20MHz-256QAM-55340-E-TM3.1A



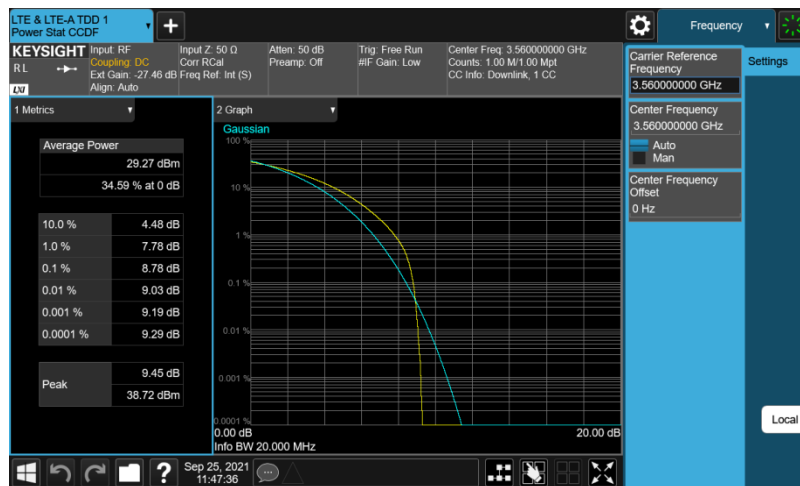
Band48-20MHz-256QAM-55990-E-TM3.1A



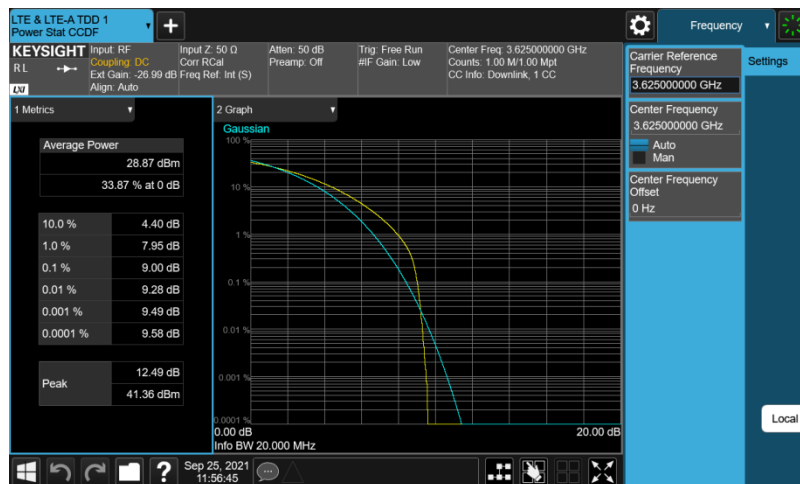
Band48-20MHz-256QAM-56640-E-TM3.1A



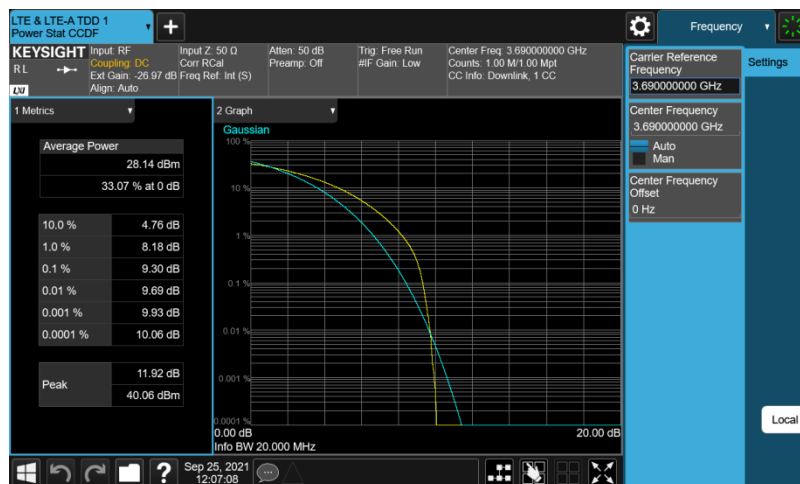
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



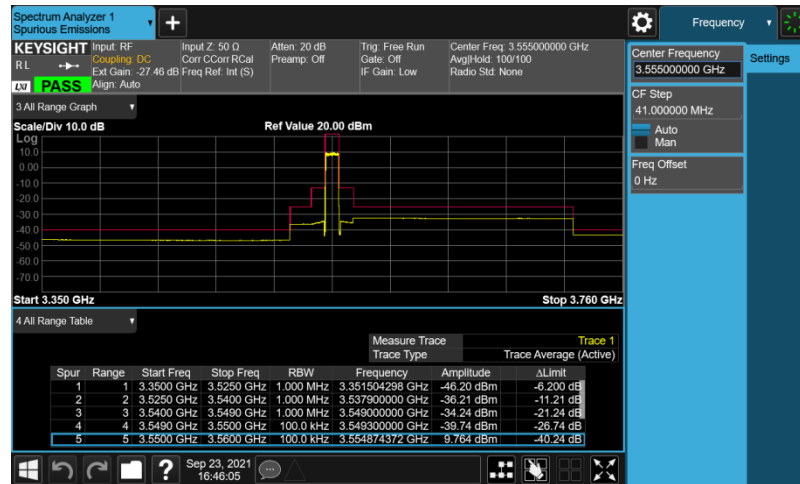
Band48-20MHz-QPSK-56640-E-TM1.1



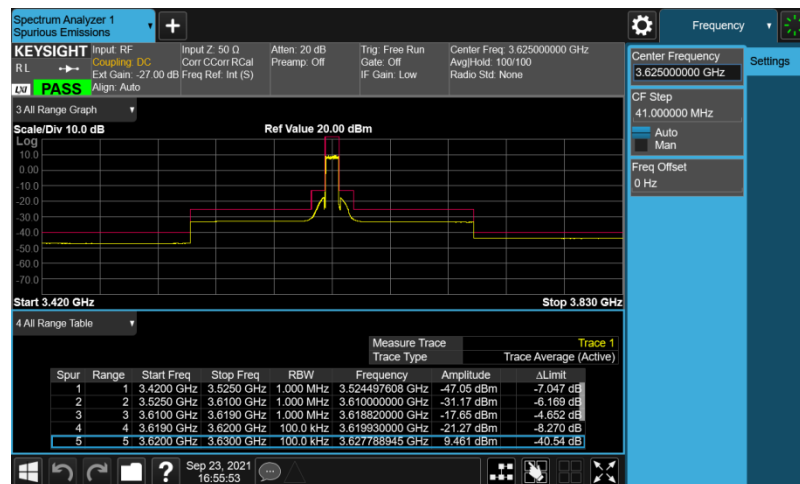
Appendix F: Emission Mask

Test Graphs

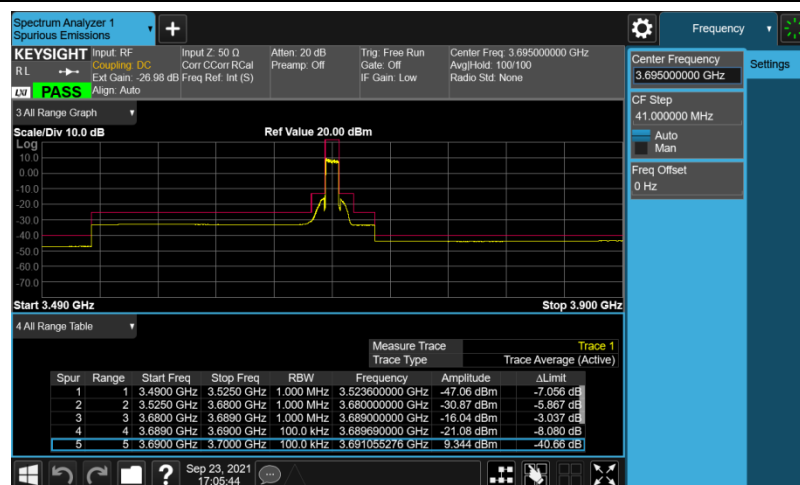
Band48-10MHz-256QAM-55290-E-TM3.1A



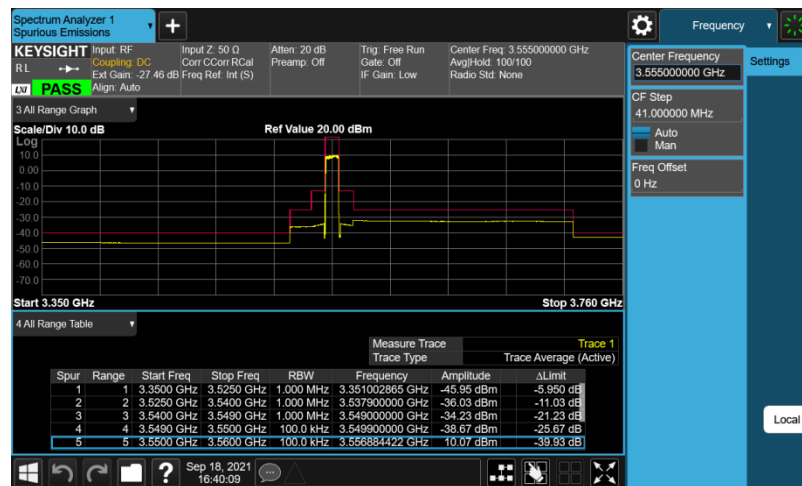
Band48-10MHz-256QAM-55990-E-TM3.1A



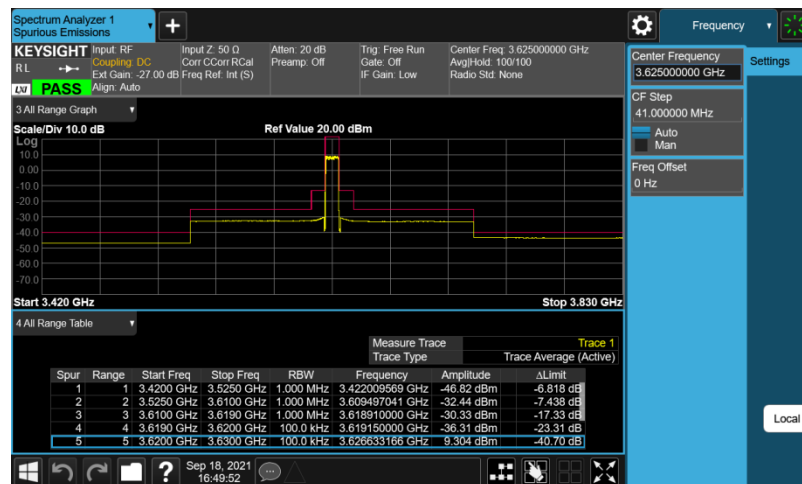
Band48-10MHz-256QAM-56690-E-TM3.1A



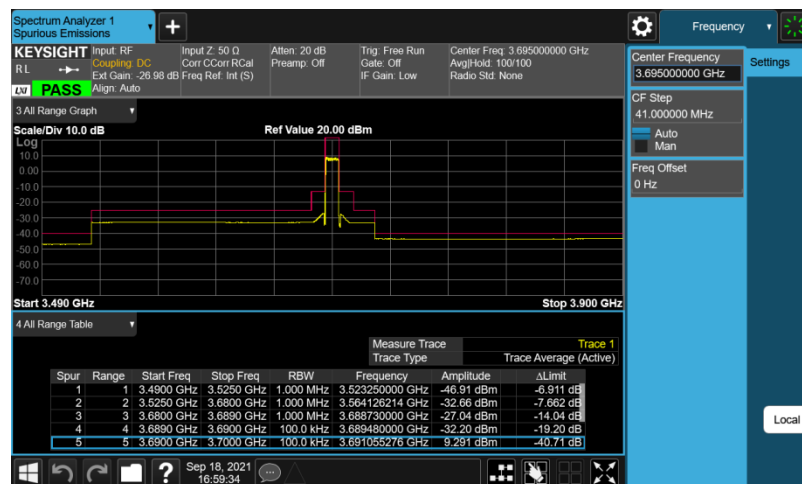
Band48-10MHz-QPSK-55290-E-TM1.1



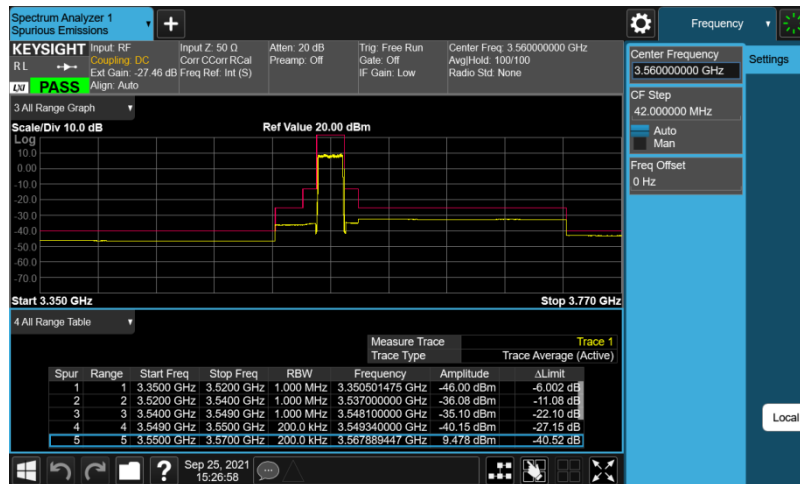
Band48-10MHz-QPSK-55990-E-TM1.1



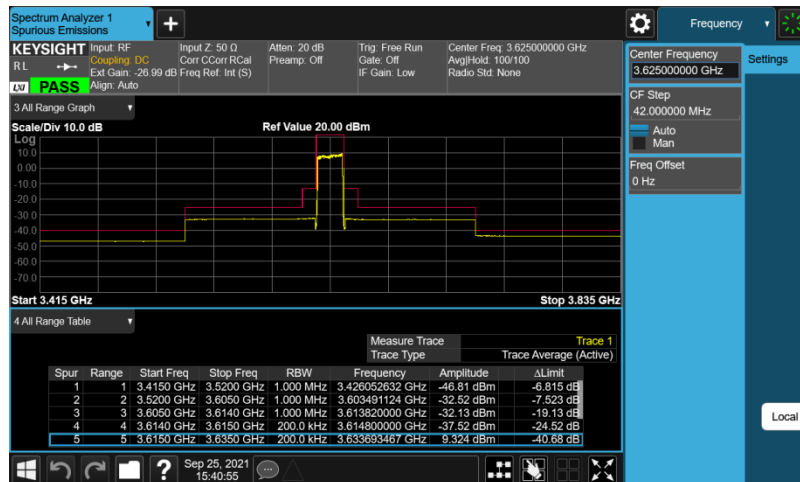
Band48-10MHz-QPSK-56690-E-TM1.1



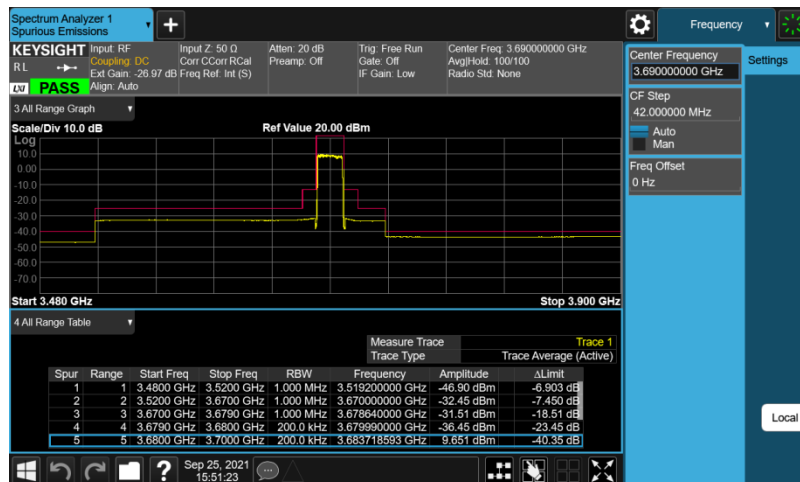
Band48-20MHz-256QAM-55340-E-TM3.1A



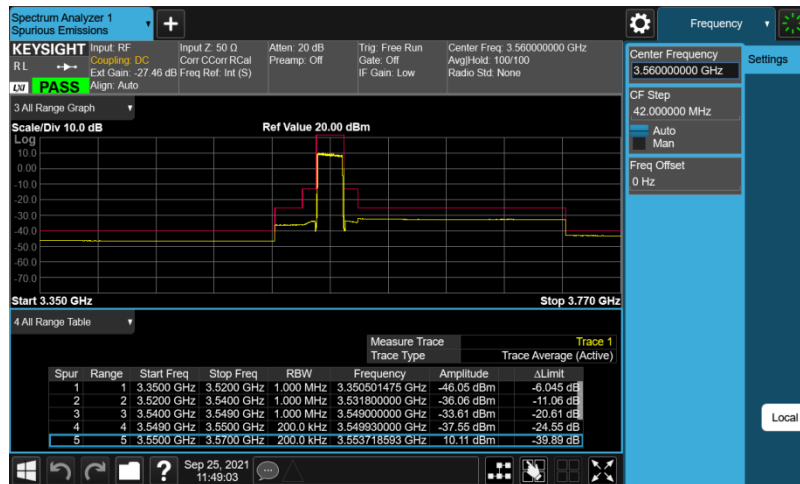
Band48-20MHz-256QAM-55990-E-TM3.1A



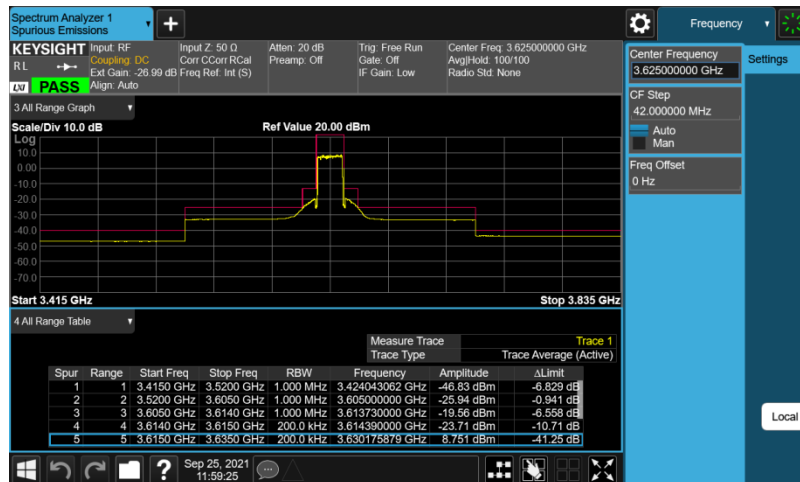
Band48-20MHz-256QAM-56640-E-TM3.1A



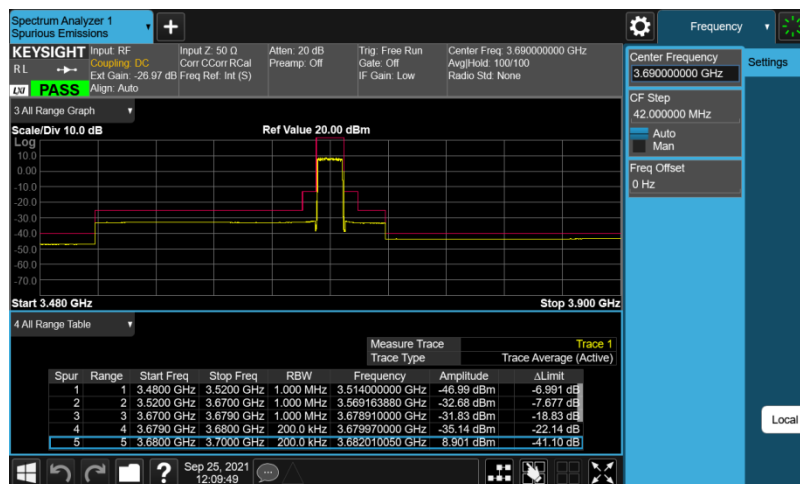
Band48-20MHz-QPSK-55340-E-TM1.1



Band48-20MHz-QPSK-55990-E-TM1.1



Band48-20MHz-QPSK-56640-E-TM1.1



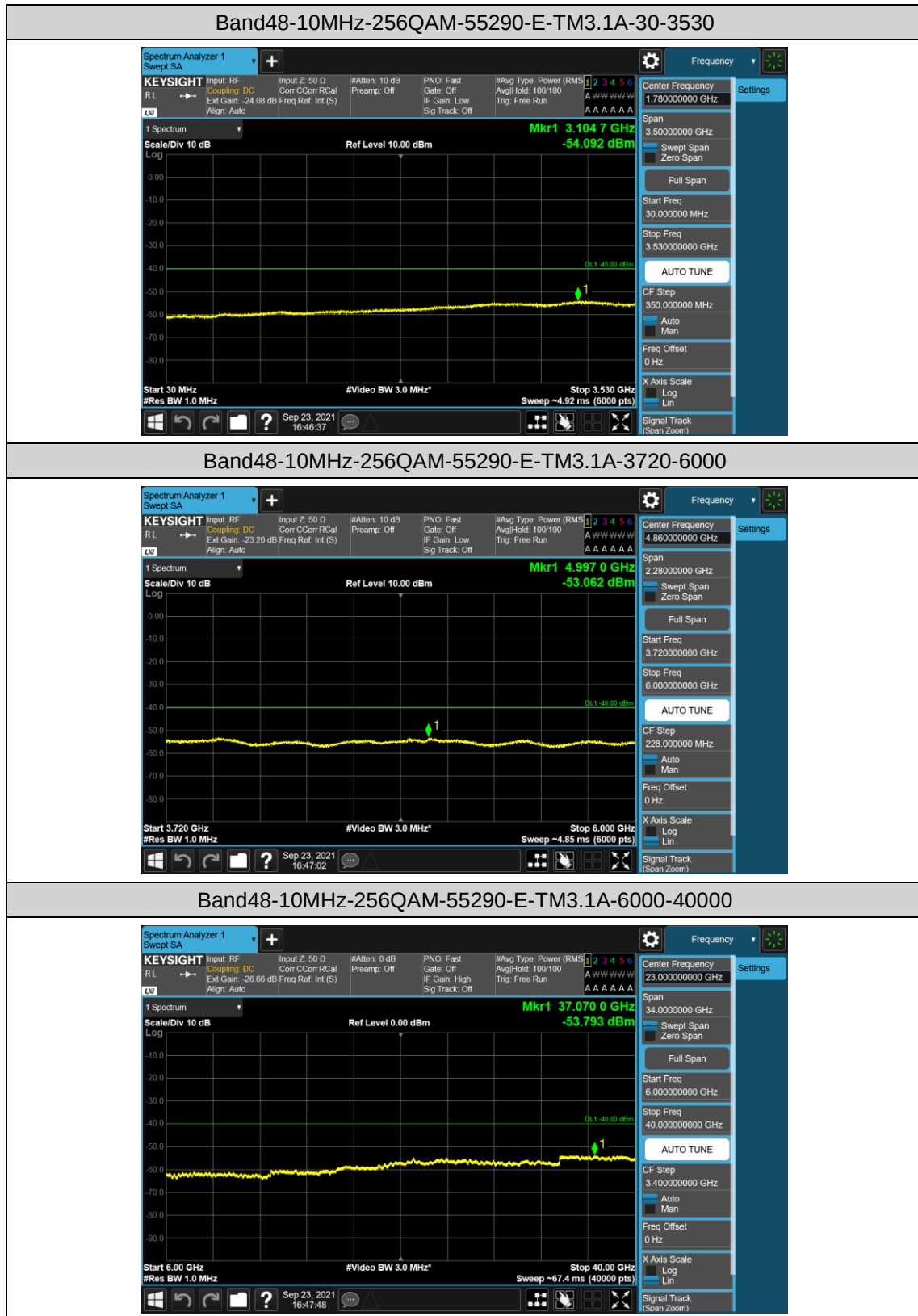
Appendix G: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band48	10MHz	256QAM	55290	E-TM3.1A	30-3530	-54.09	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	3720-6000	-53.06	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	6000-40000	-53.79	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	30-3530	-54.12	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	3720-6000	-53.25	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.56	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	30-3530	-54.48	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	3720-6000	-53.08	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	6000-40000	-53.69	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	30-3530	-53.79	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	3720-6000	-52.93	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	6000-40000	-53.48	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	30-3530	-53.95	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	3720-6000	-52.98	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	6000-40000	-53.53	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	30-3530	-54.25	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	3720-6000	-53.05	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	6000-40000	-53.45	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	30-3530	-53.74	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	3720-6000	-53.03	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	6000-40000	-53.56	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	30-3530	-53.50	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	3720-6000	-52.97	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	6000-40000	-52.94	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	30-3530	-53.64	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	3720-6000	-52.79	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	6000-40000	-48.81	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	30-3530	-53.78	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	3720-6000	-53.04	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	6000-40000	-53.57	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	30-3530	-54.12	PASS

Band48	20MHz	QPSK	55990	E-TM1.1	3720-6000	-53.02	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	6000-40000	-53.54	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	30-3530	-54.21	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	3720-6000	-53.03	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	6000-40000	-53.55	PASS

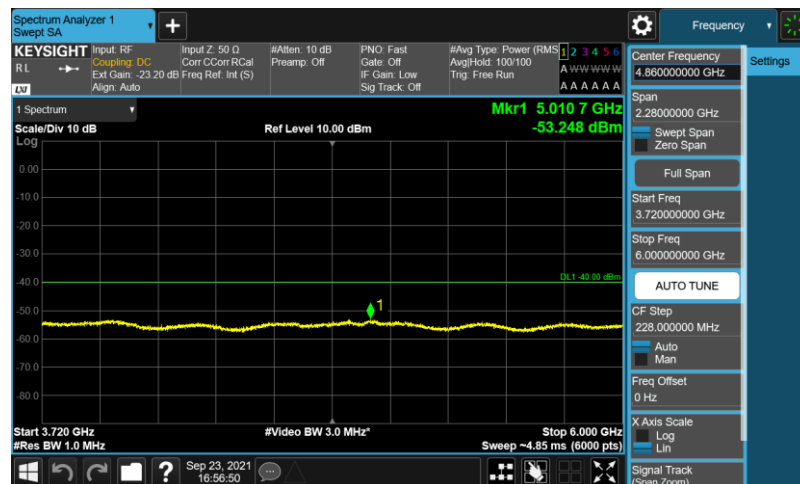
Test Graphs



Band48-10MHz-256QAM-55990-E-TM3.1A-30-3530



Band48-10MHz-256QAM-55990-E-TM3.1A-3720-6000



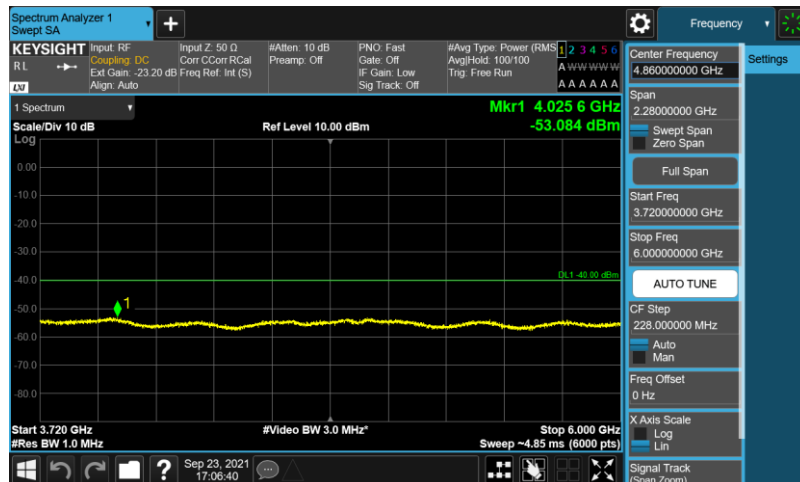
Band48-10MHz-256QAM-55990-E-TM3.1A-6000-40000



Band48-10MHz-256QAM-56690-E-TM3.1A-30-3530



Band48-10MHz-256QAM-56690-E-TM3.1A-3720-6000



Band48-10MHz-256QAM-56690-E-TM3.1A-6000-40000

