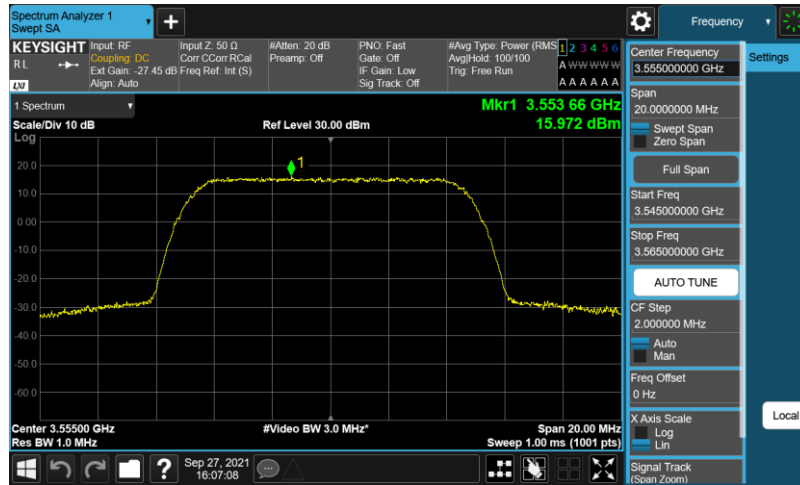
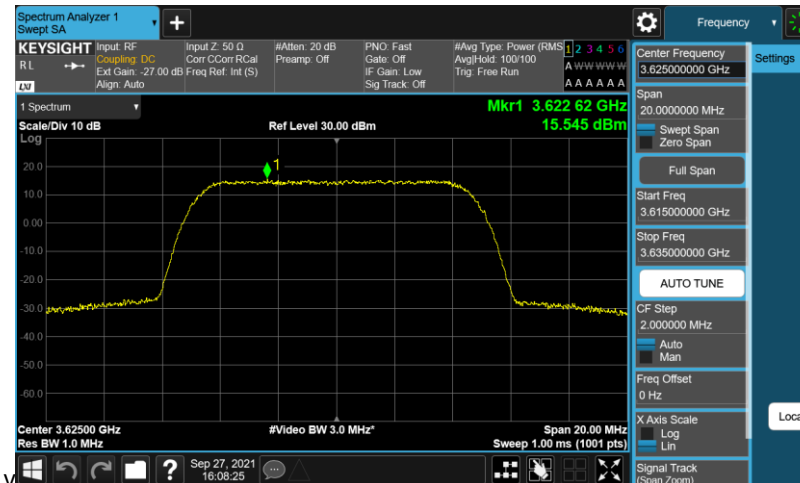


Test Graphs

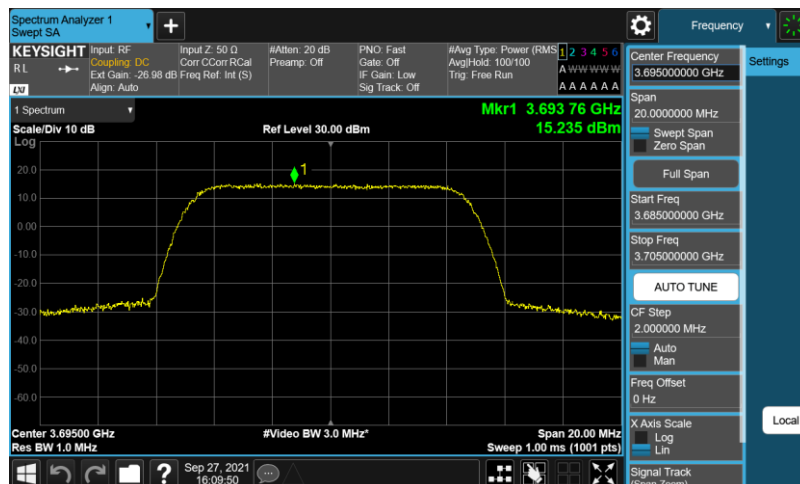
Band48-10MHz-256QAM-55290-E-TM3.1A



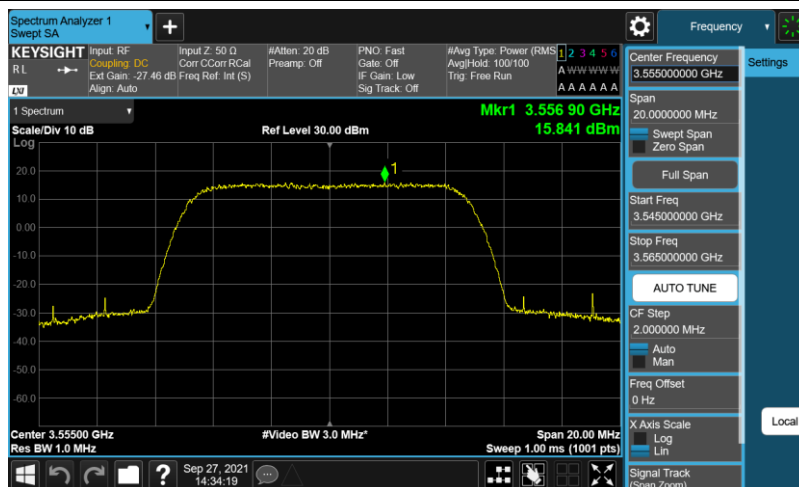
Band48-10MHz-256QAM-55990-E-TM3.1A



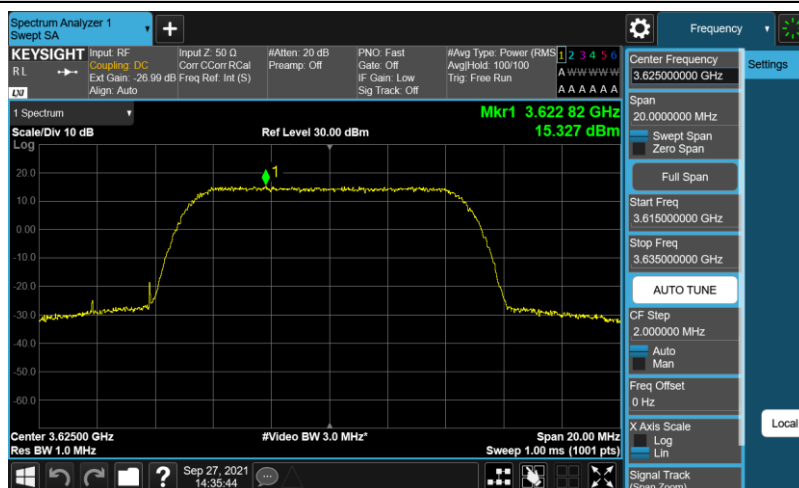
Band48-10MHz-256QAM-56690-E-TM3.1A



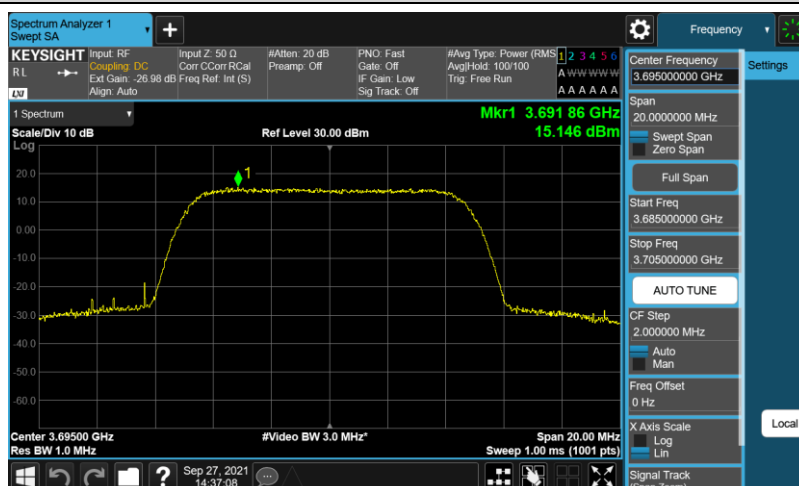
Band48-10MHz-QPSK-55290-E-TM1.1



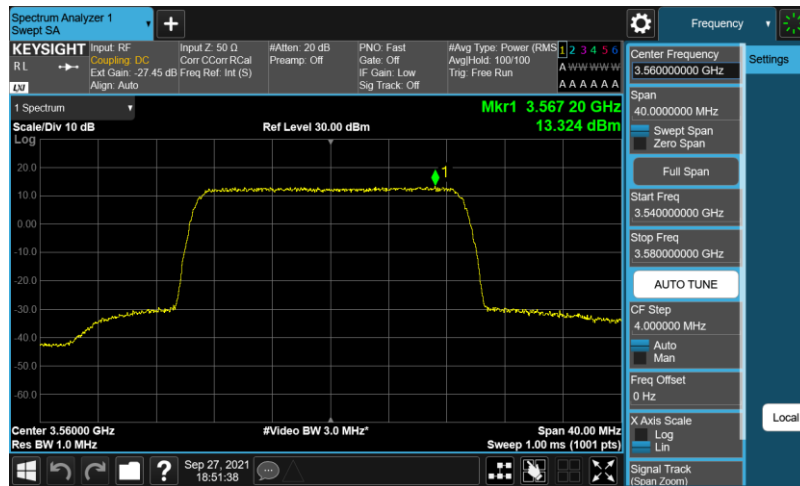
Band48-10MHz-QPSK-55990-E-TM1.1



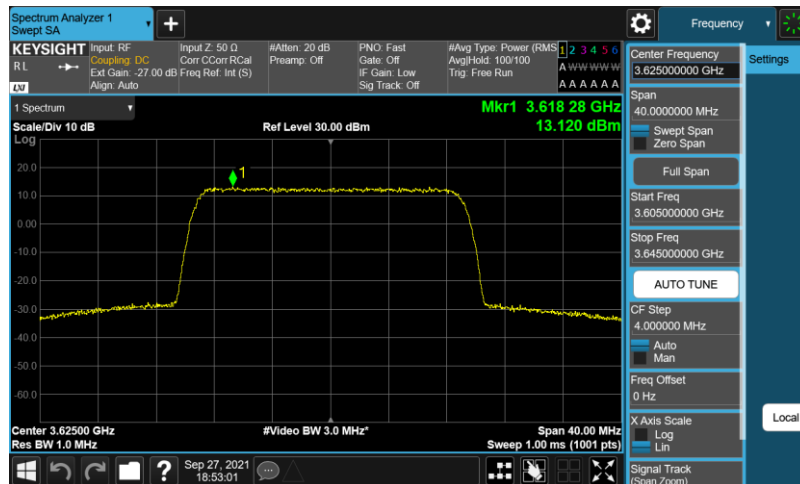
Band48-10MHz-OPSK-56690-E-TM1.1



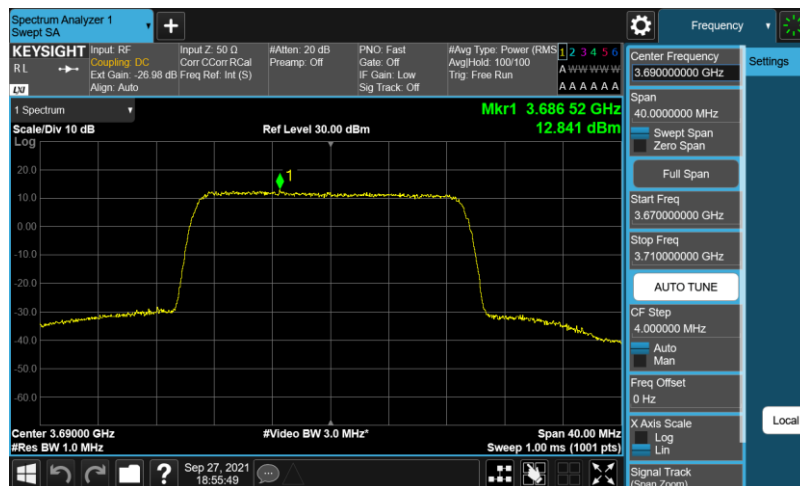
Band48-20MHz-256QAM-55340-E-TM3.1A



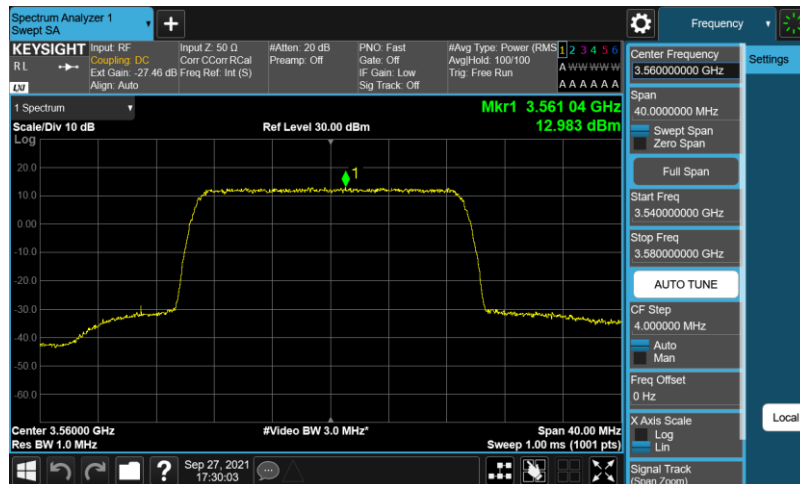
Band48-20MHz-256QAM-55990-E-TM3.1A



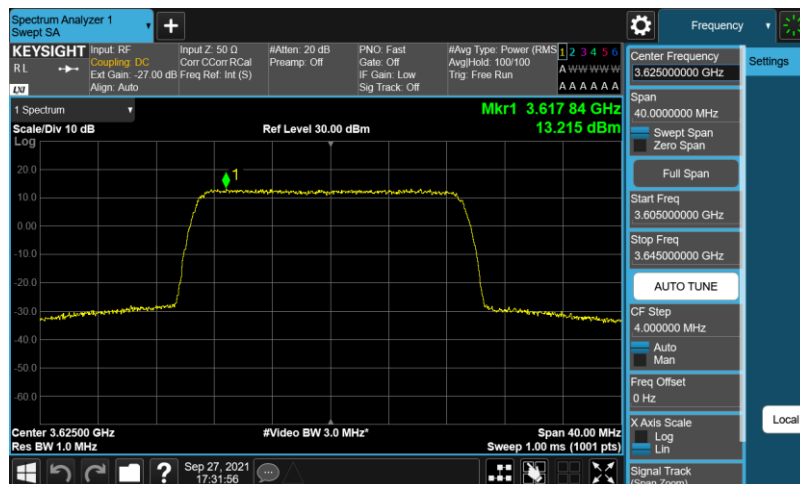
Band48-20MHz-256QAM-56640-E-TM3.1A



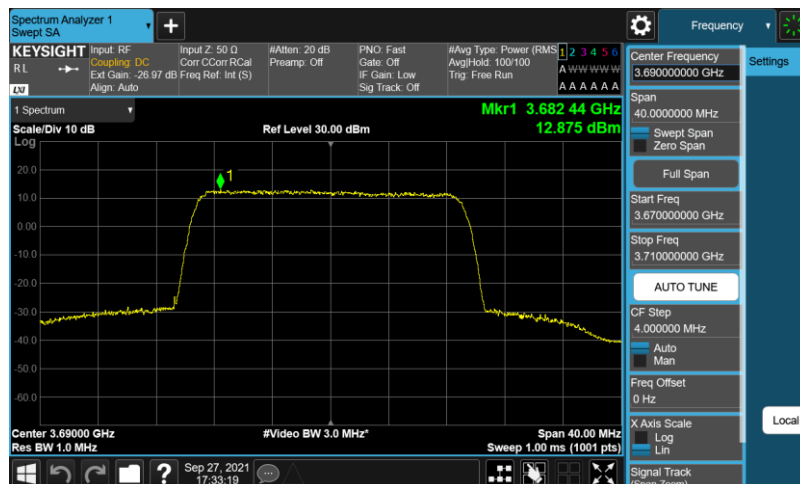
Band48-20MHz-QPSK-55340-E-TM1.1



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



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



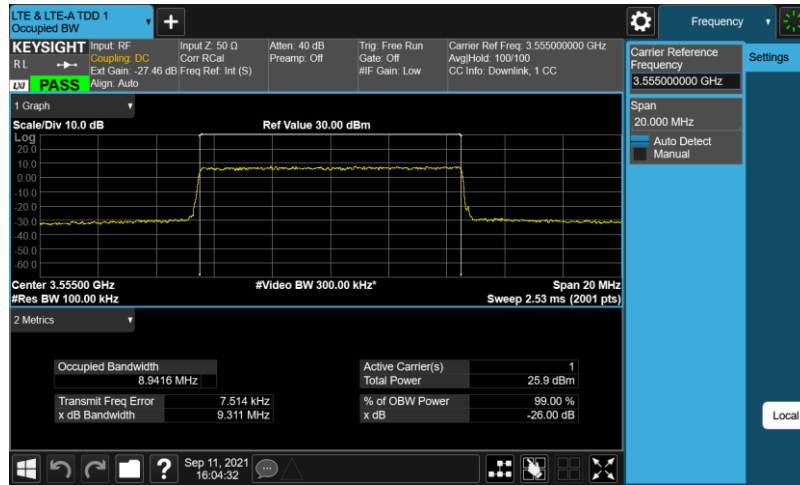
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

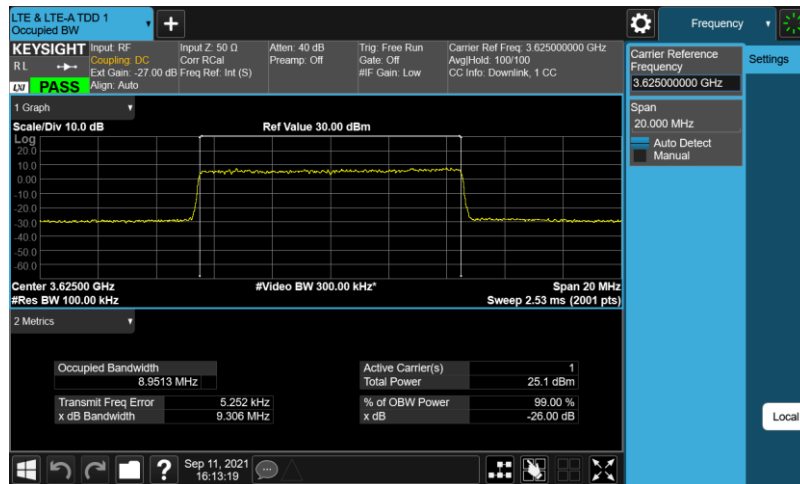
Band	Bandwidth	Modulation	Channel	Mode	99%(MHz)	EBW(MHz)
Band48	10MHz	256QAM	55290	E-TM3.1A	8.9416	9.311
Band48	10MHz	256QAM	55990	E-TM3.1A	8.9513	9.306
Band48	10MHz	256QAM	56690	E-TM3.1A	8.9460	9.355
Band48	10MHz	QPSK	55290	E-TM1.1	8.9315	9.304
Band48	10MHz	QPSK	55990	E-TM1.1	8.9414	9.379
Band48	10MHz	QPSK	56690	E-TM1.1	8.9481	9.332
Band48	20MHz	256QAM	55340	E-TM3.1A	17.873	18.56
Band48	20MHz	256QAM	55990	E-TM3.1A	17.856	18.54
Band48	20MHz	256QAM	56640	E-TM3.1A	17.867	18.53
Band48	20MHz	QPSK	55340	E-TM1.1	17.844	18.56
Band48	20MHz	QPSK	55990	E-TM1.1	17.870	18.51
Band48	20MHz	QPSK	56640	E-TM1.1	17.852	18.49

Test Graphs

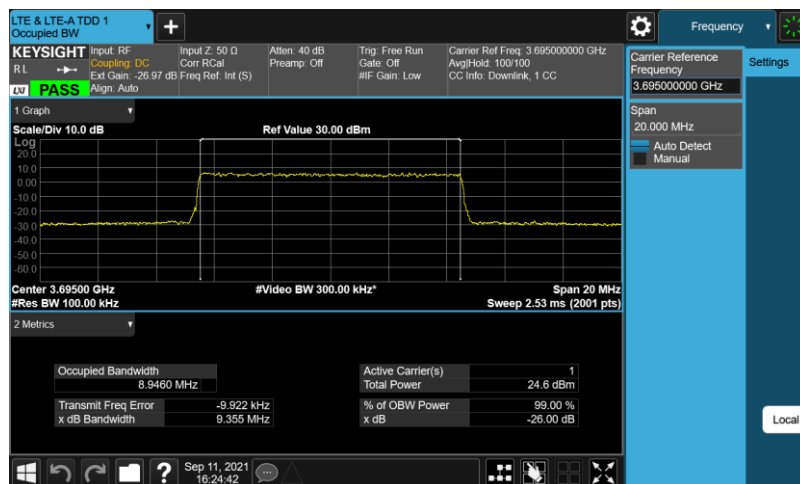
Band48-10MHz-256QAM-55290-E-TM3.1A



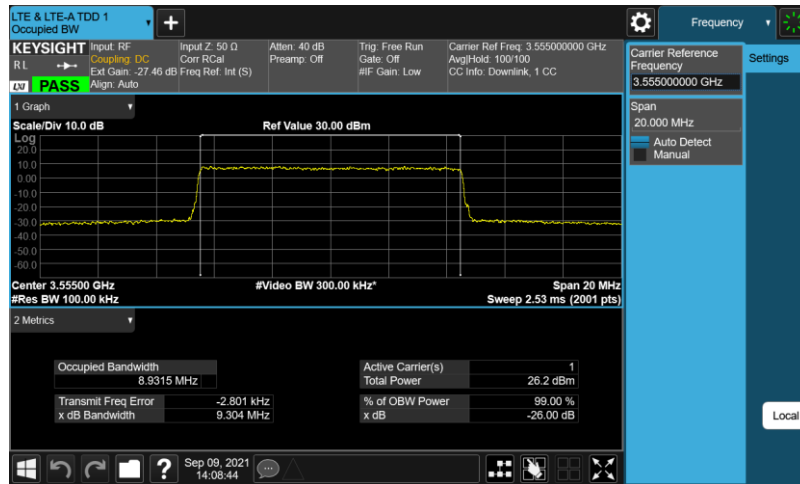
Band48-10MHz-256QAM-55990-E-TM3.1A



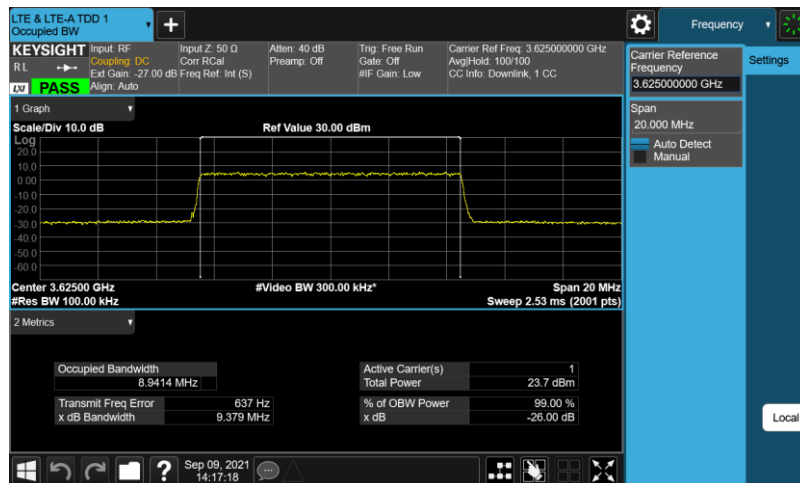
Band48-10MHz-256QAM-56690-E-TM3.1A



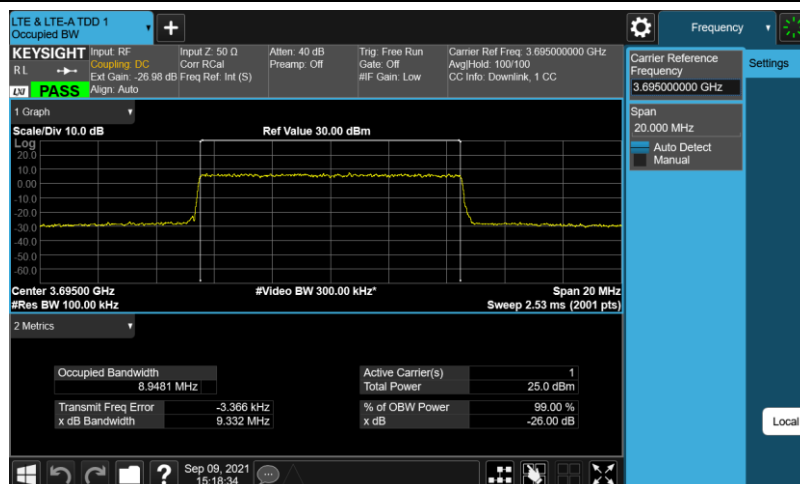
Band48-10MHz-QPSK-55290-E-TM1.1



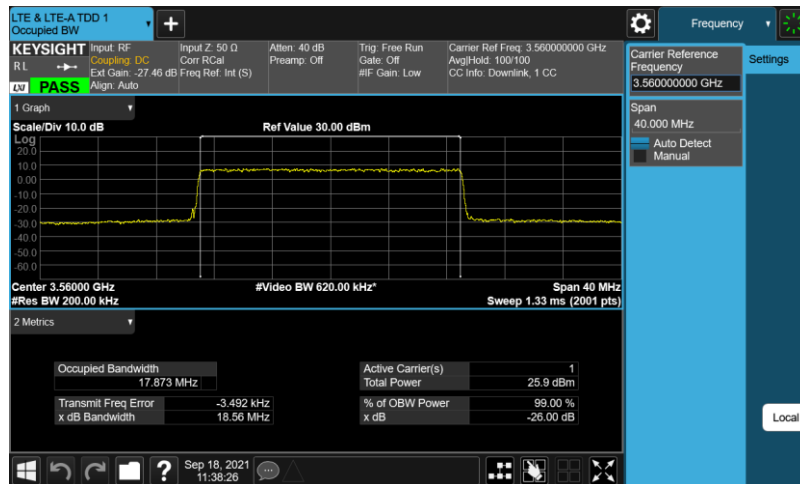
Band48-10MHz-QPSK-55990-E-TM1.1



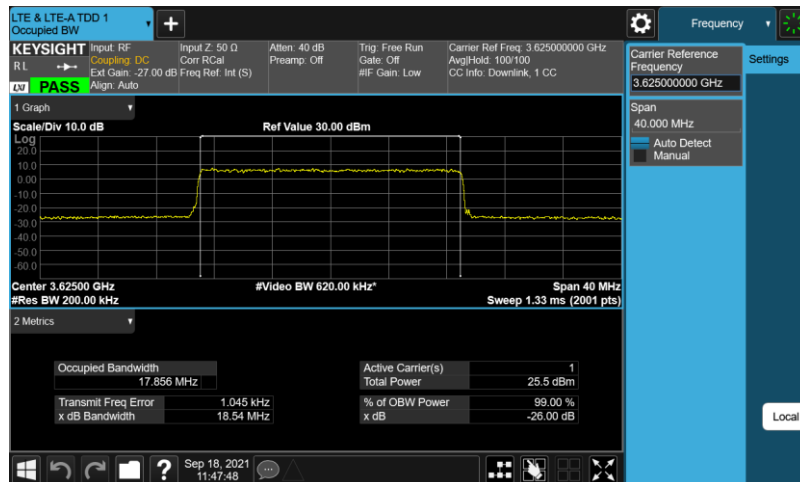
Band48-10MHz-QPSK-56690-E-TM1.1



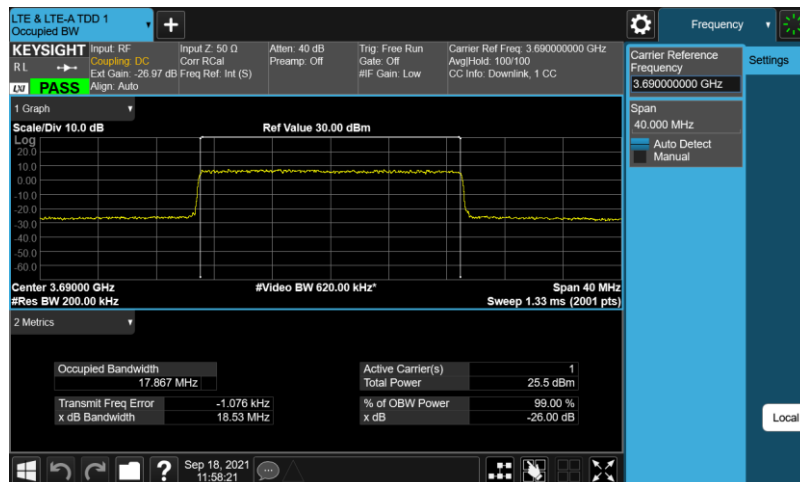
Band48-20MHz-256QAM-55340-E-TM3.1A



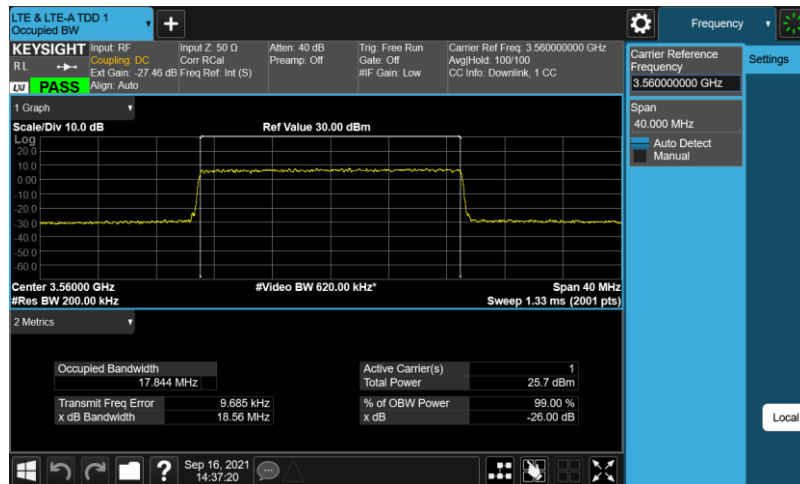
Band48-20MHz-256QAM-55990-E-TM3.1A



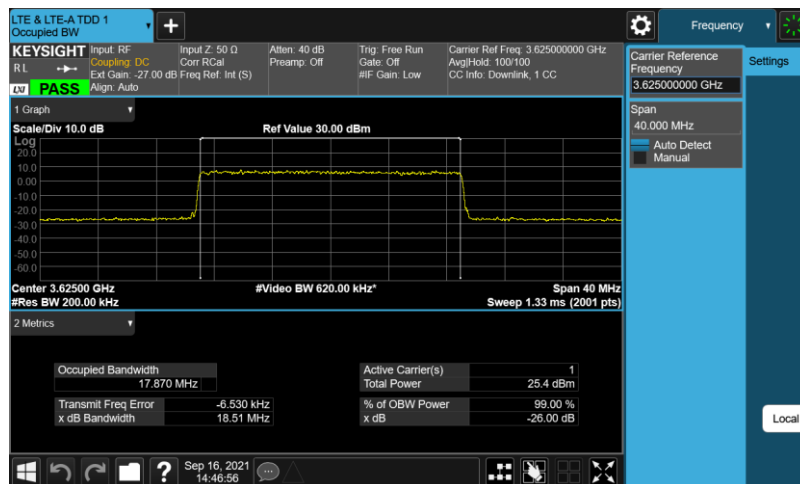
Band48-20MHz-256QAM-56640-E-TM3.1A



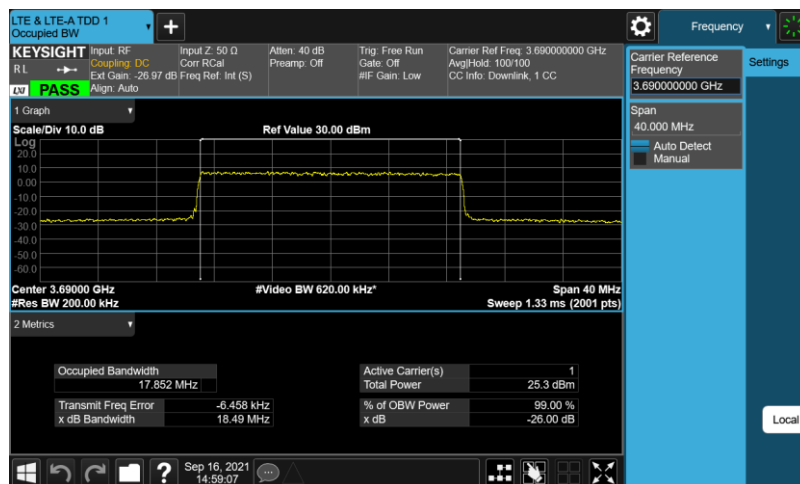
Band48-20MHz-QPSK-55340-E-TM1.1



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	76	0.021	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	25	74	0.020	
Band48	10MHz	256QAM	55990	E-TM3.1A	138	25	68	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	102	25	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	25	75	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	138	25	70	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	102	25	69	0.019	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	25	73	0.020	
Band48	20MHz	256QAM	55990	E-TM3.1A	138	25	73	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	102	25	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	25	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	138	25	72	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	55	0.015	within the authorized bands
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-20	54	0.015	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	-10	58	0.016	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	0	60	0.017	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	10	62	0.017	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	20	55	0.015	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	30	57	0.016	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	40	60	0.017	
Band48	10MHz	256QAM	55990	E-TM3.1A	120	50	54	0.015	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-30	77	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-20	76	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	-10	77	0.021	
Band48	10MHz	QPSK	55990	E-TM1.1	120	0	72	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	10	70	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	20	68	0.019	
Band48	10MHz	QPSK	55990	E-TM1.1	120	30	66	0.018	

Band48	10MHz	QPSK	55990	E-TM1.1	120	40	74	0.020	
Band48	10MHz	QPSK	55990	E-TM1.1	120	50	76	0.021	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-30	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-20	55	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	-10	55	0.015	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	0	59	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	10	62	0.017	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	20	60	0.017	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	30	58	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	40	57	0.016	
Band48	20MHz	256QAM	55990	E-TM3.1A	120	50	61	0.017	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-30	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-20	72	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	-10	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	0	68	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	10	70	0.019	
Band48	20MHz	QPSK	55990	E-TM1.1	120	20	74	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	30	72	0.020	
Band48	20MHz	QPSK	55990	E-TM1.1	120	40	75	0.021	
Band48	20MHz	QPSK	55990	E-TM1.1	120	50	72	0.020	

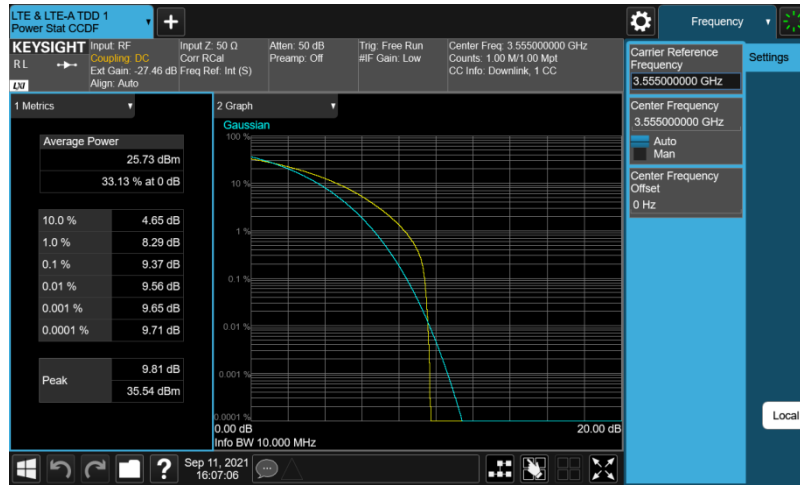
Appendix E: Peak-to-Average Ratio(CCDF)

Test Result

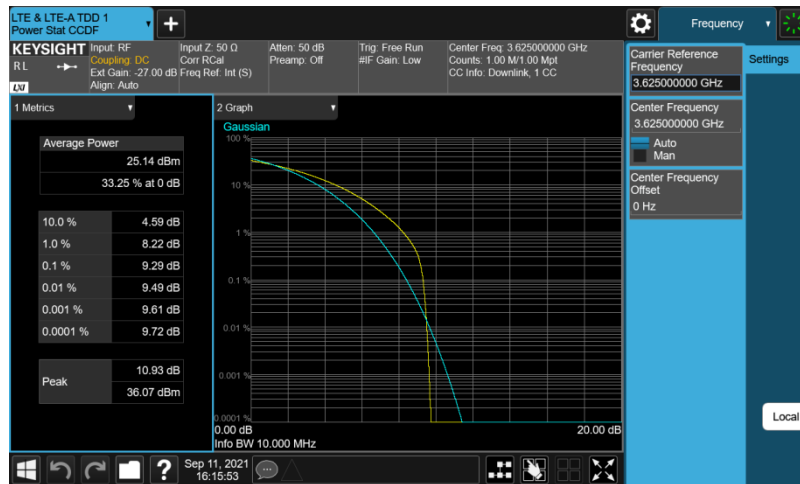
Band	Bandwidth	Modulation	Channel	Mode	Result(dBm)
Band48	10MHz	256QAM	55290	E-TM3.1A	9.37
Band48	10MHz	256QAM	55990	E-TM3.1A	9.29
Band48	10MHz	256QAM	56690	E-TM3.1A	9.41
Band48	10MHz	QPSK	55290	E-TM1.1	9.21
Band48	10MHz	QPSK	55990	E-TM1.1	9.31
Band48	10MHz	QPSK	56690	E-TM1.1	9.33
Band48	20MHz	256QAM	55340	E-TM3.1A	9.19
Band48	20MHz	256QAM	55990	E-TM3.1A	9.35
Band48	20MHz	256QAM	56640	E-TM3.1A	9.28
Band48	20MHz	QPSK	55340	E-TM1.1	9.53
Band48	20MHz	QPSK	55990	E-TM1.1	9.98
Band48	20MHz	QPSK	56640	E-TM1.1	9.02

Test Graphs

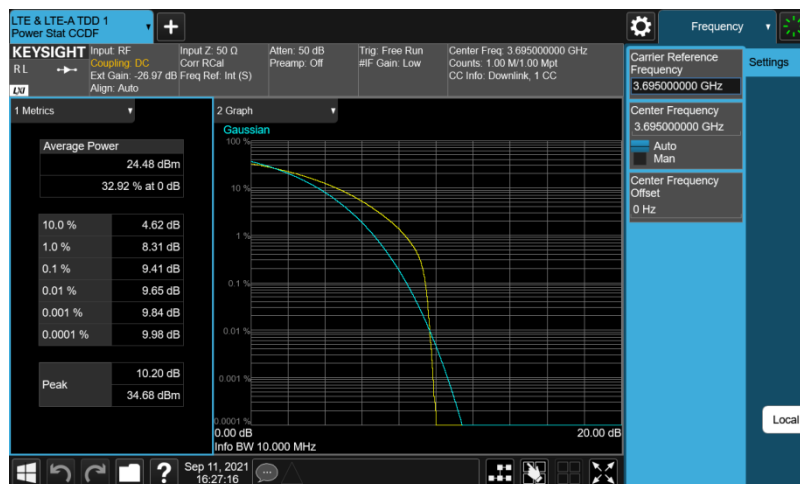
Band48-10MHz-256QAM-55290-E-TM3.1A



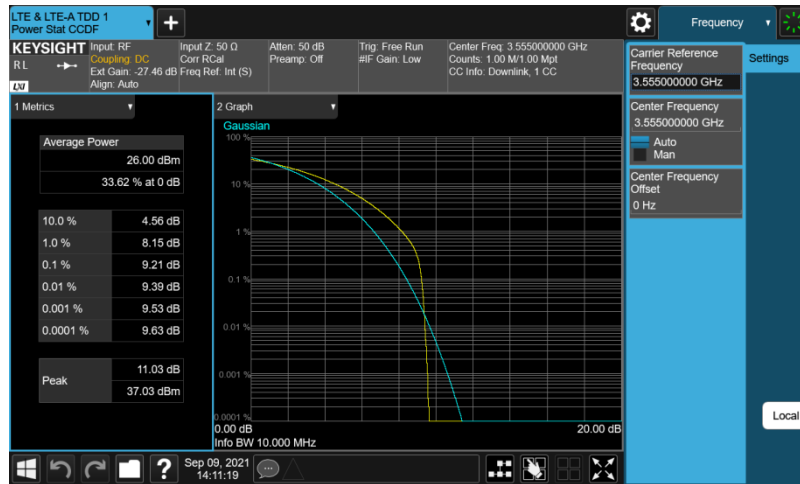
Band48-10MHz-256QAM-55990-E-TM3.1A



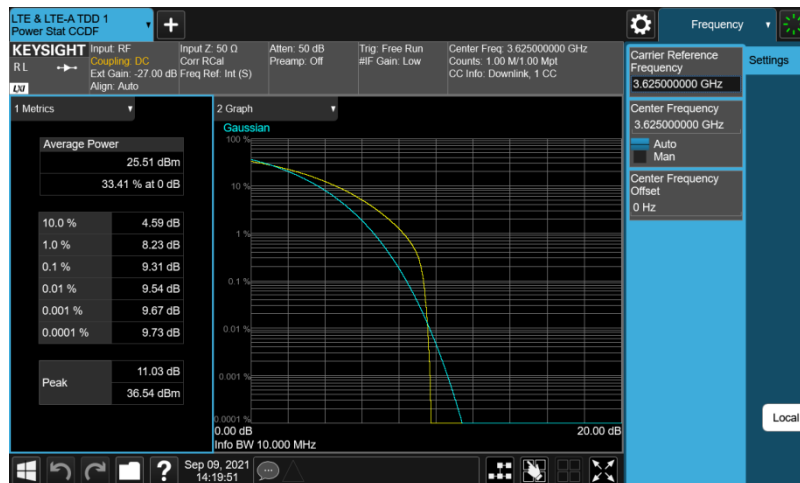
Band48-10MHz-256QAM-56690-E-TM3.1A



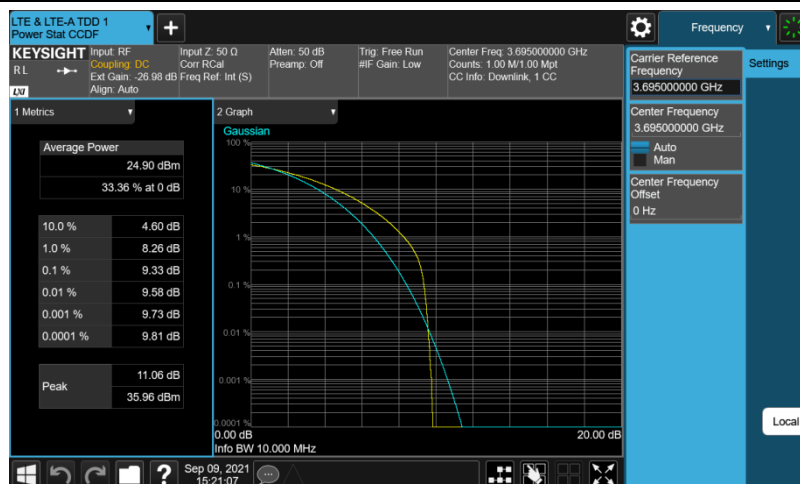
Band48-10MHz-QPSK-55290-E-TM1.1



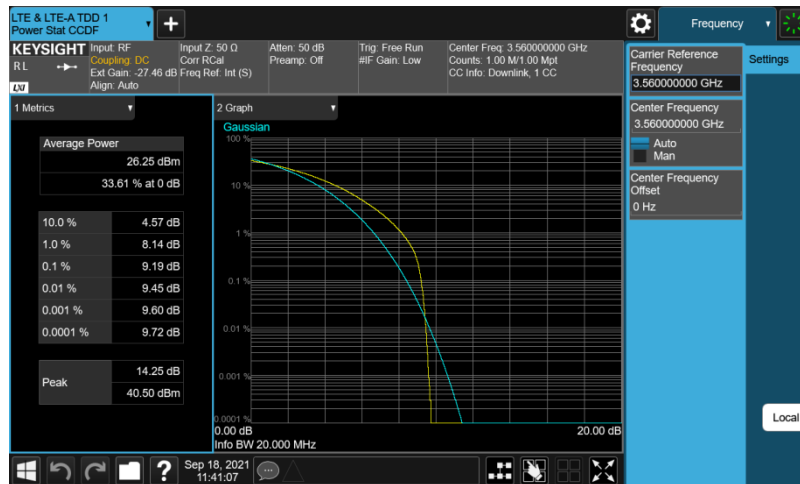
Band48-10MHz-QPSK-55990-E-TM1.1



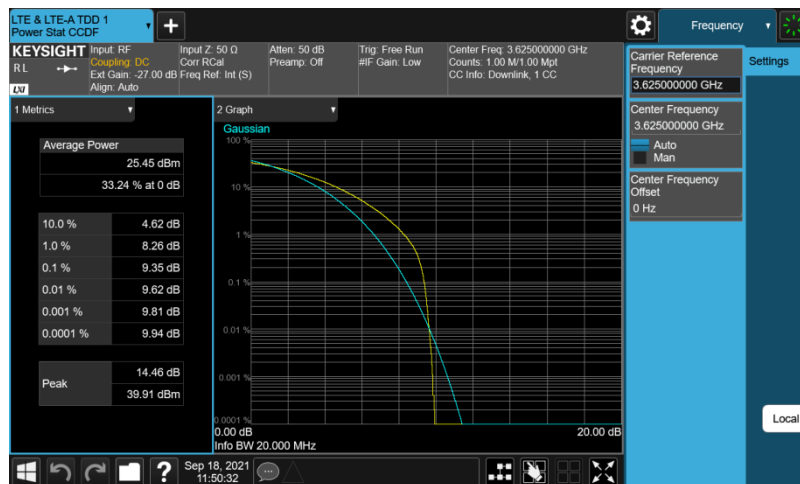
Band48-10MHz-QPSK-56690-E-TM1.1



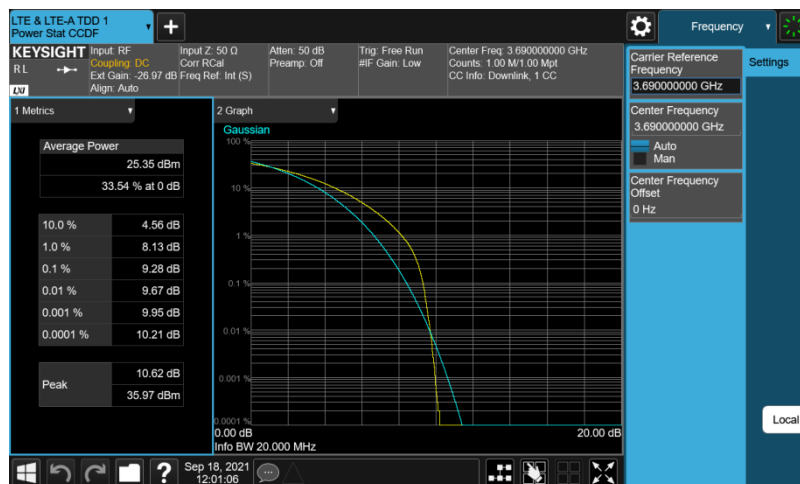
Band48-20MHz-256QAM-55340-E-TM3.1A



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



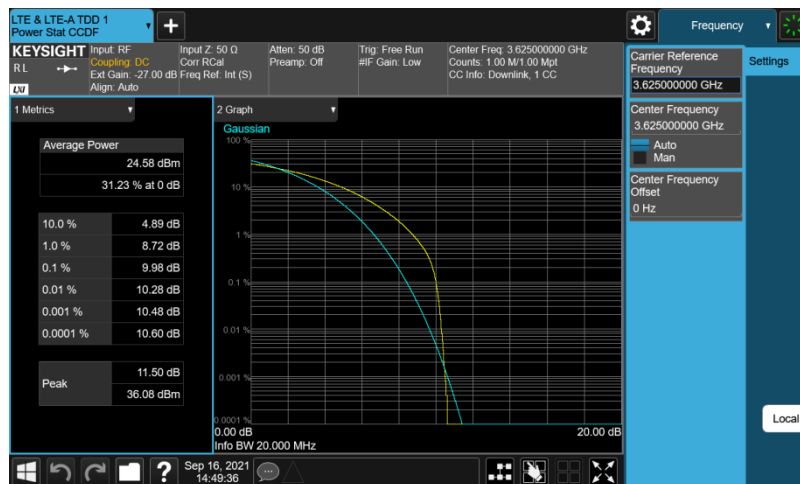
Band48-20MHz-256QAM-56640-E-TM3.1A



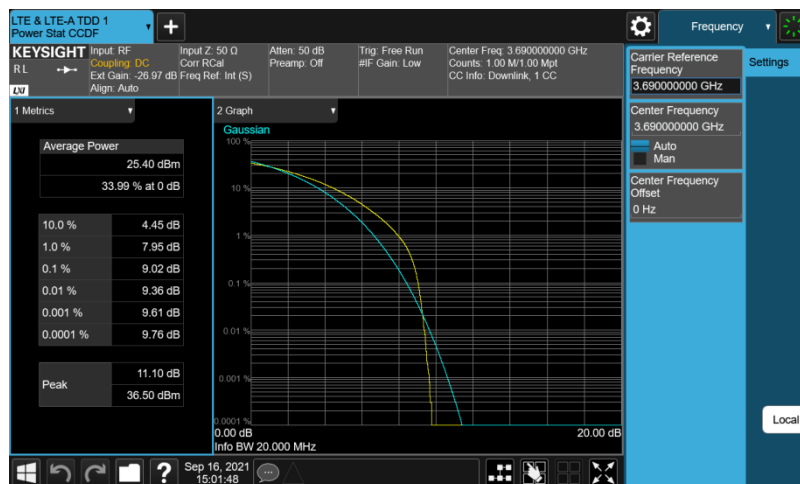
Band48-20MHz-QPSK-55340-E-TM1.1



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



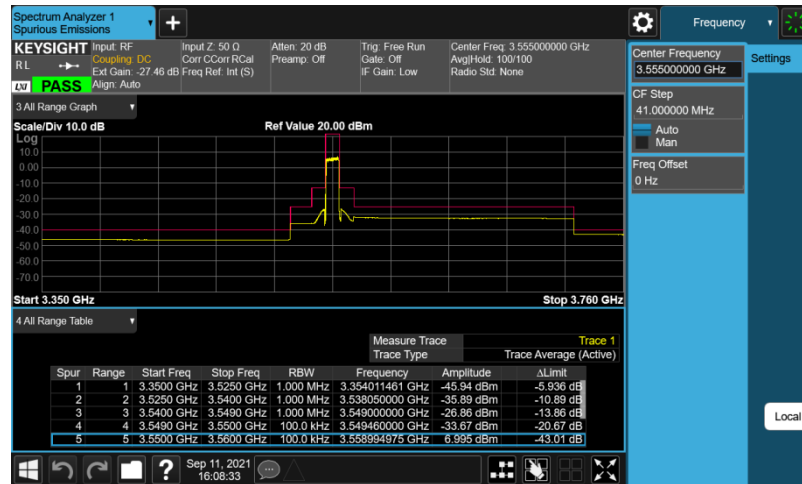
Band48-20MHz-QPSK-56640-E-TM1.1



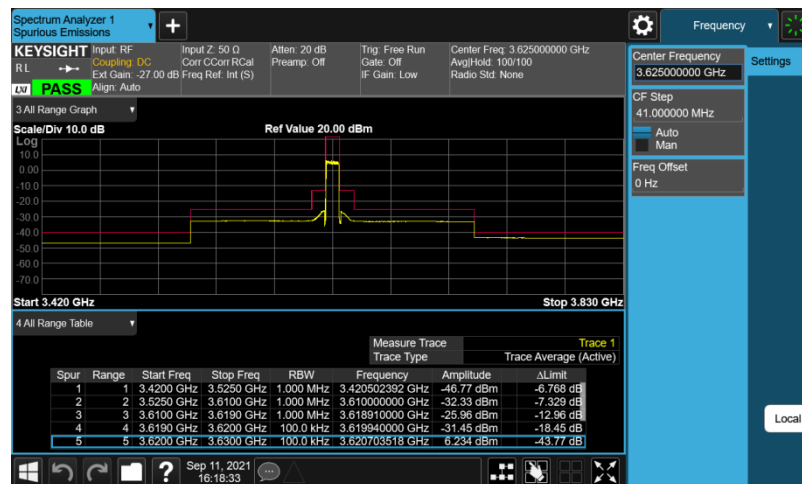
Appendix F: Emission Mask

Test Graphs

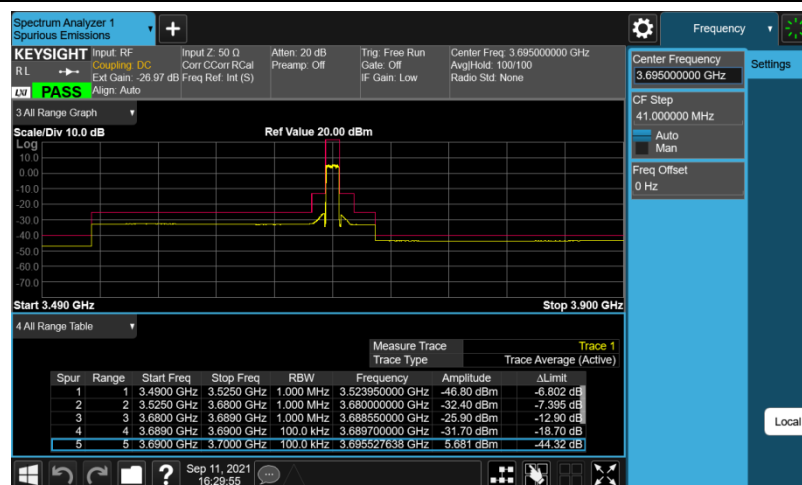
Band48-10MHz-256QAM-55290-E-TM3.1A



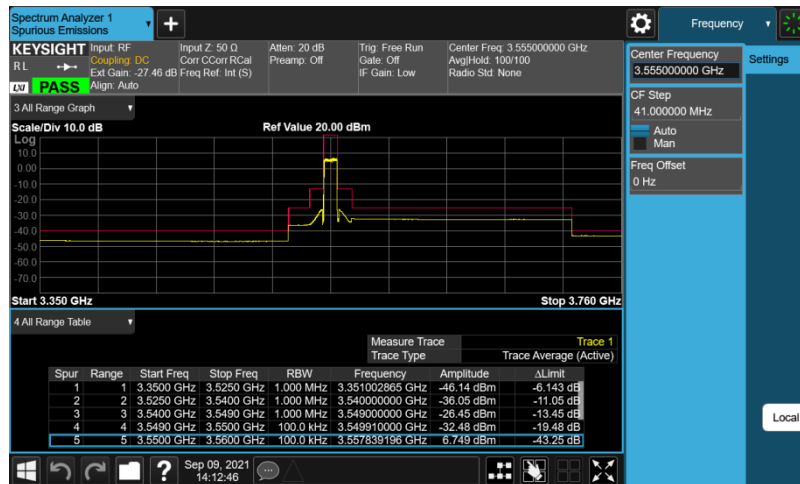
Band48-10MHz-256QAM-55990-E-TM3.1A



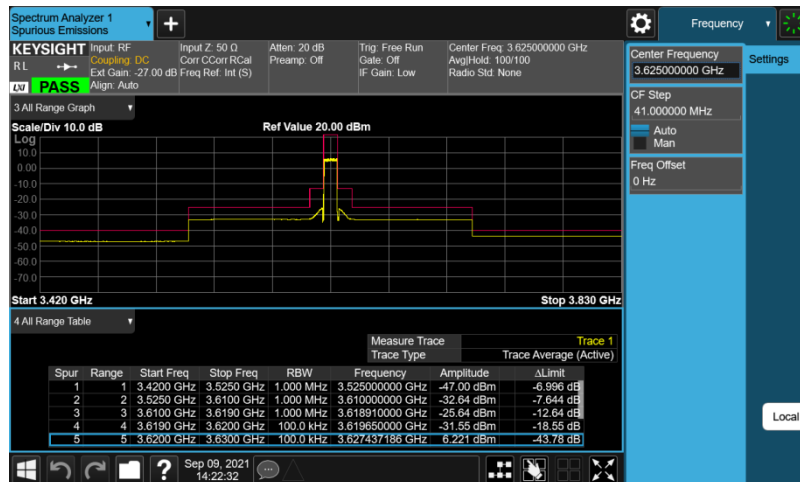
Band48-10MHz-256QAM-56690-E-TM3.1A



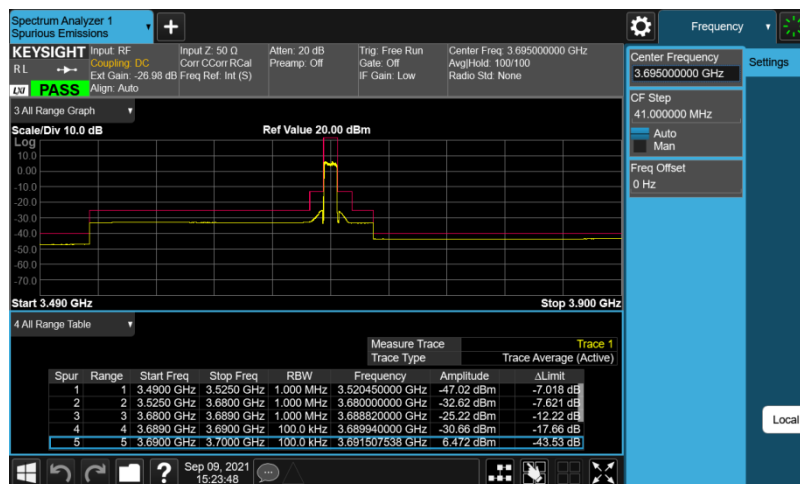
Band48-10MHz-QPSK-55290-E-TM1.1



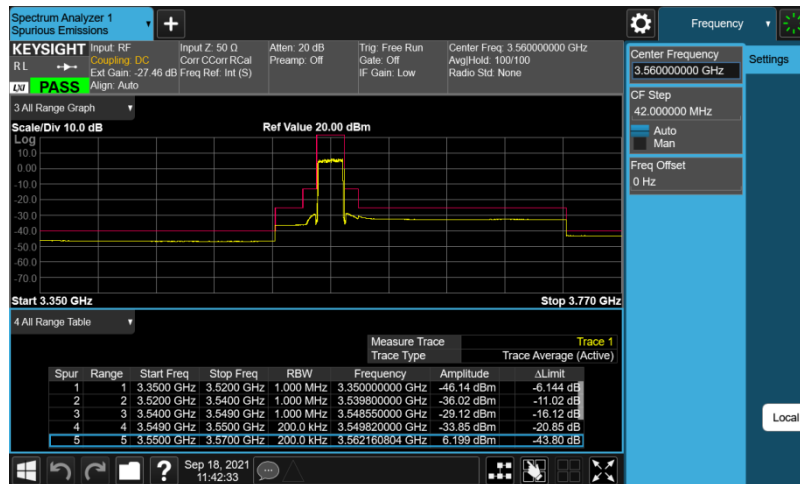
Band48-10MHz-QPSK-55990-E-TM1.1



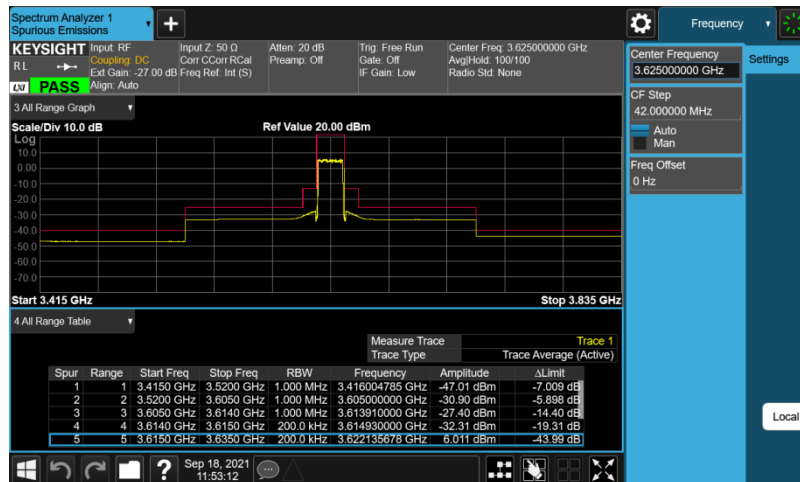
Band48-10MHz-QPSK-56690-E-TM1.1



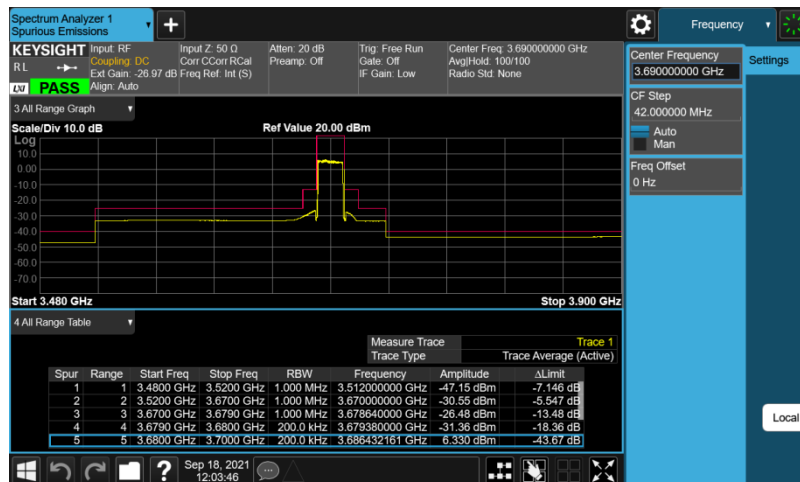
Band48-20MHz-256QAM-55340-E-TM3.1A



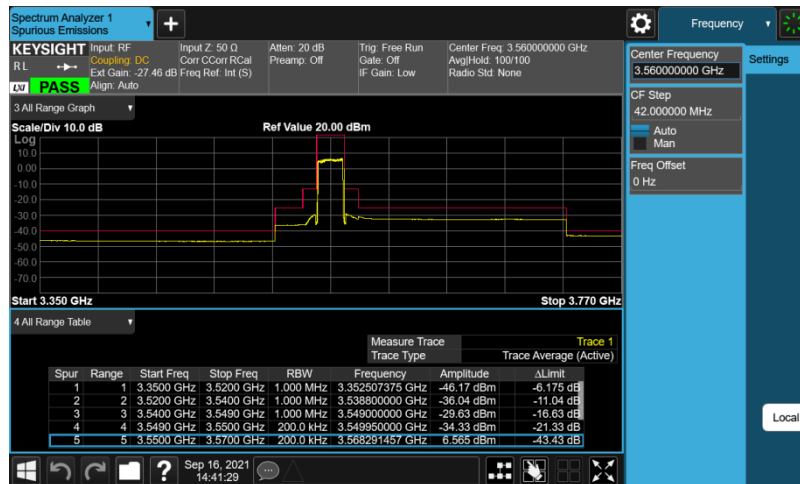
Band48-20MHz-256QAM-55990-E-TM3.1A



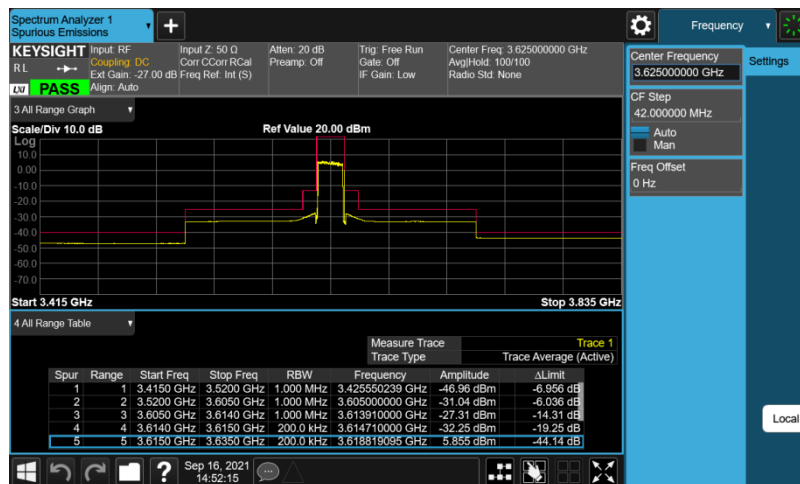
Band48-20MHz-256QAM-56640-E-TM3.1A



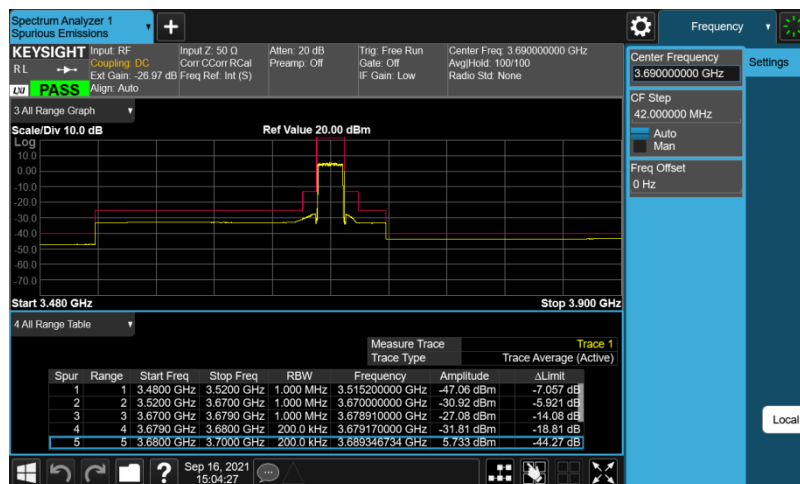
Band48-20MHz-QPSK-55340-E-TM1.1



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



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



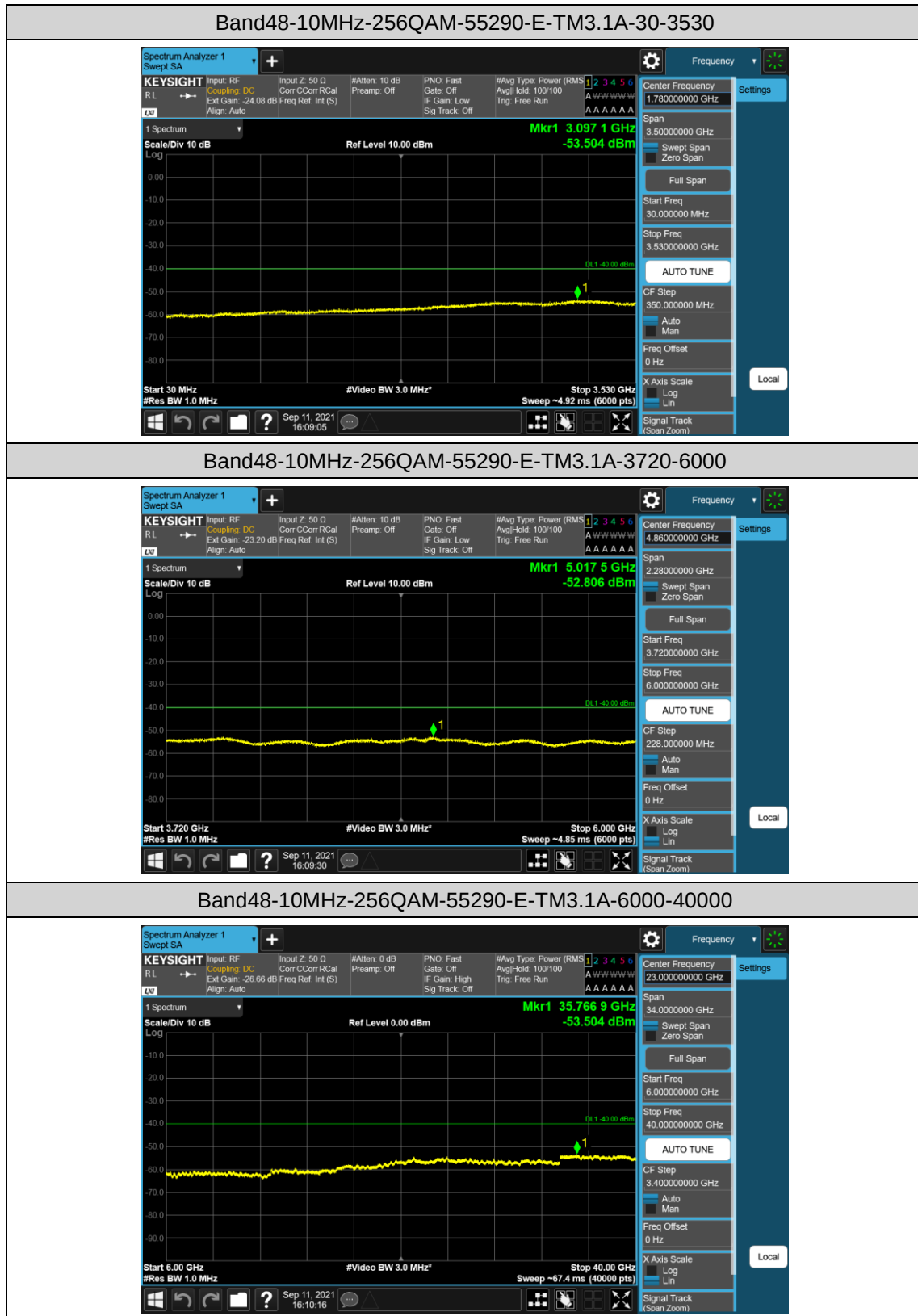
Appendix G: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Test Frequency(MHz)	Result (dBm)	Verdict
Band48	10MHz	256QAM	55290	E-TM3.1A	30-3530	-53.50	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	3720-6000	-52.81	PASS
Band48	10MHz	256QAM	55290	E-TM3.1A	6000-40000	-53.50	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	30-3530	-53.85	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	3720-6000	-52.80	PASS
Band48	10MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.43	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	30-3530	-53.99	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	3720-6000	-52.85	PASS
Band48	10MHz	256QAM	56690	E-TM3.1A	6000-40000	-53.42	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	30-3530	-53.63	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	3720-6000	-53.21	PASS
Band48	10MHz	QPSK	55290	E-TM1.1	6000-40000	-53.59	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	30-3530	-54.12	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	3720-6000	-52.89	PASS
Band48	10MHz	QPSK	55990	E-TM1.1	6000-40000	-53.48	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	30-3530	-54.16	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	3720-6000	-53.05	PASS
Band48	10MHz	QPSK	56690	E-TM1.1	6000-40000	-53.43	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	30-3530	-54.01	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	3720-6000	-53.16	PASS
Band48	20MHz	256QAM	55340	E-TM3.1A	6000-40000	-53.48	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	30-3530	-54.11	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	3720-6000	-52.97	PASS
Band48	20MHz	256QAM	55990	E-TM3.1A	6000-40000	-53.55	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	30-3530	-54.35	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	3720-6000	-53.15	PASS
Band48	20MHz	256QAM	56640	E-TM3.1A	6000-40000	-53.45	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	30-3530	-53.59	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	3720-6000	-52.85	PASS
Band48	20MHz	QPSK	55340	E-TM1.1	6000-40000	-53.65	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	30-3530	-54.03	PASS

Band48	20MHz	QPSK	55990	E-TM1.1	3720-6000	-52.82	PASS
Band48	20MHz	QPSK	55990	E-TM1.1	6000-40000	-53.54	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	30-3530	-54.45	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	3720-6000	-53.10	PASS
Band48	20MHz	QPSK	56640	E-TM1.1	6000-40000	-53.59	PASS

Test Graphs



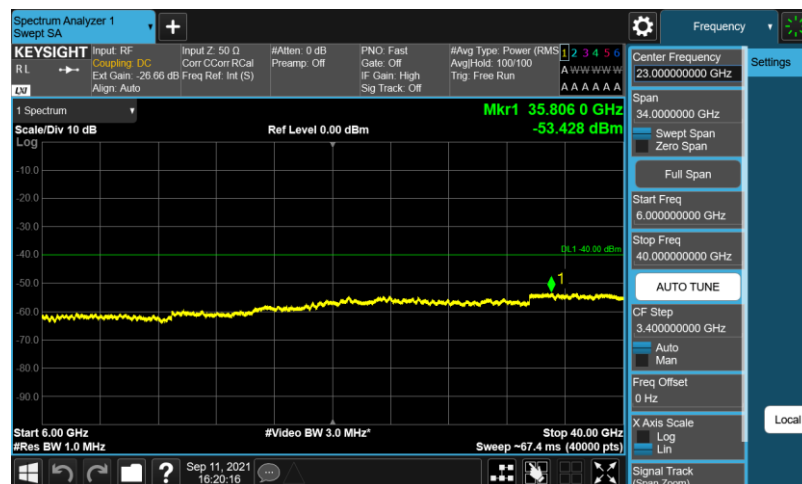
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Band48-10MHz-256QAM-55990-E-TM3.1A-3720-6000



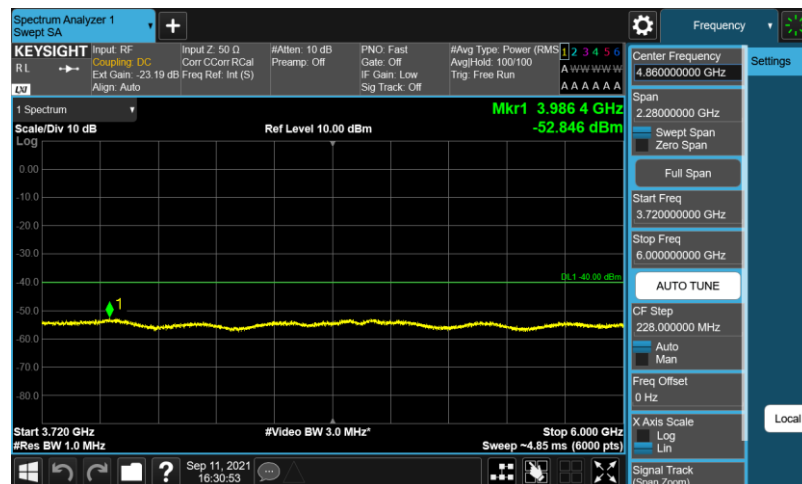
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Band48-10MHz-256QAM-56690-E-TM3.1A-30-3530



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



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

