

LTE Band 2_5MHz Spectrum Plot

1RB#0

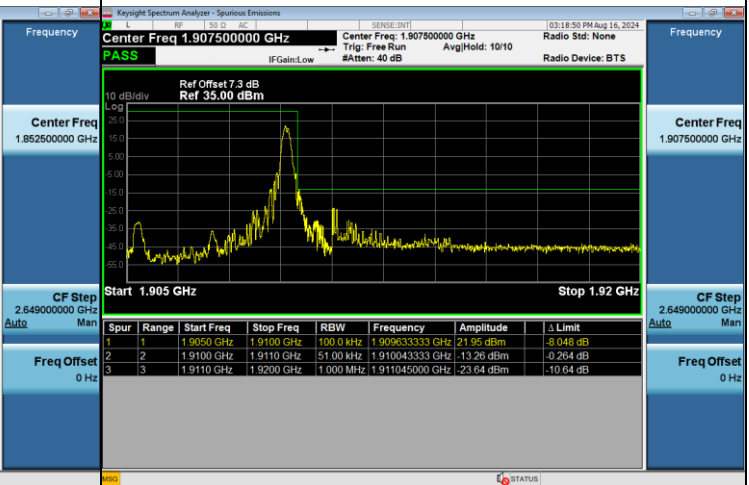
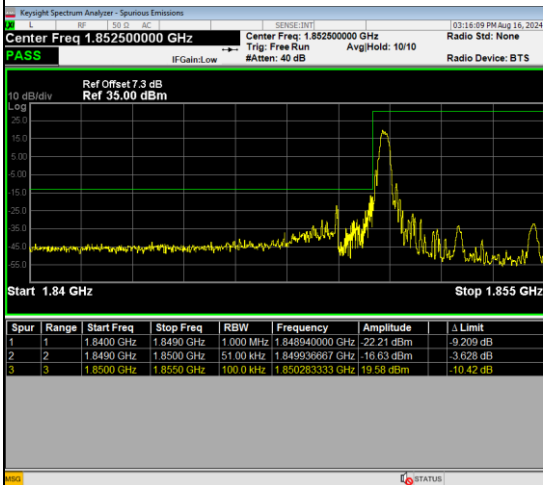
1RB#24

Channel

18625

Channel

19175



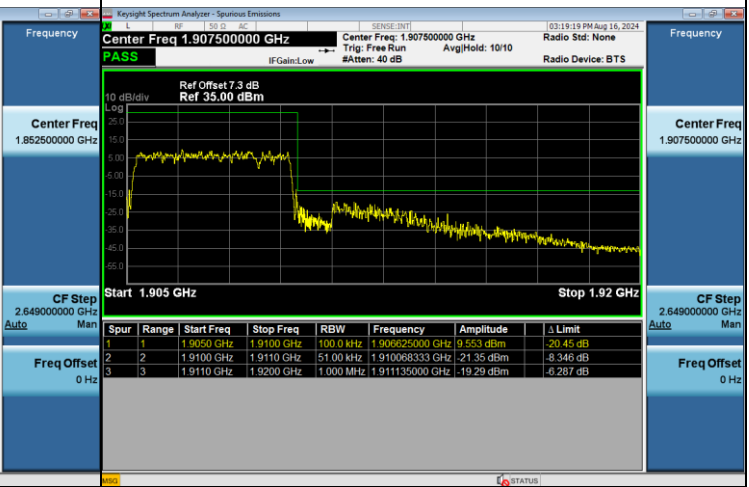
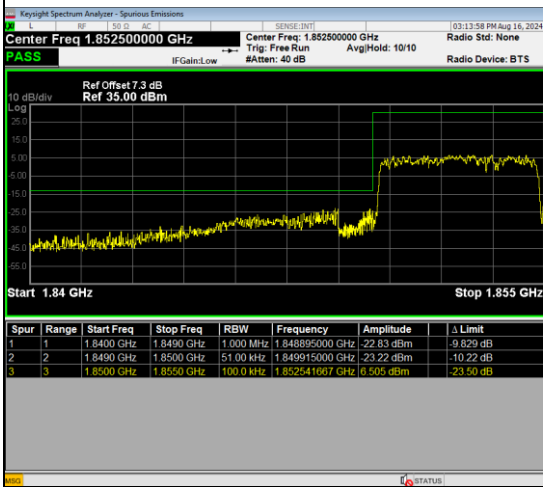
25RB#0

Channel

18625

Channel

19175



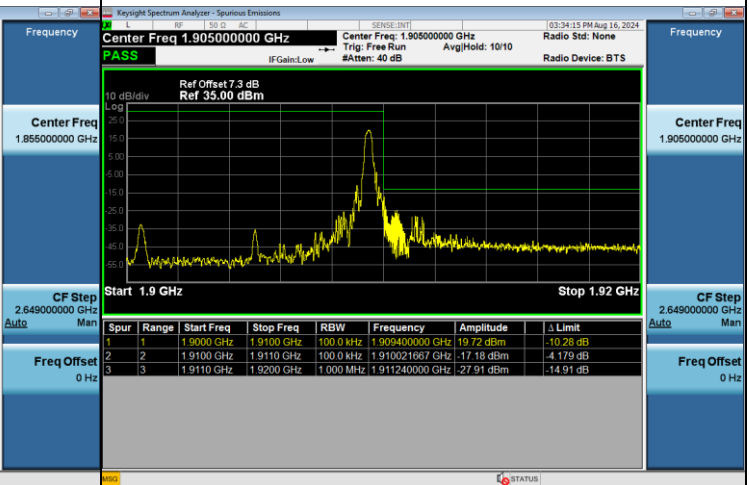
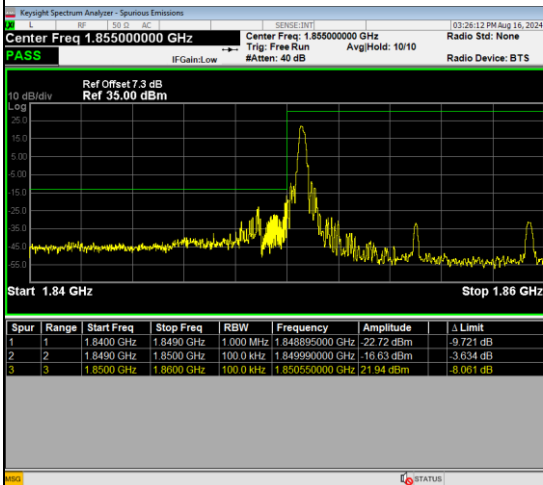
LTE Band 2_10MHz Spectrum Plot

1RB#0

1RB#49

Channel 18650

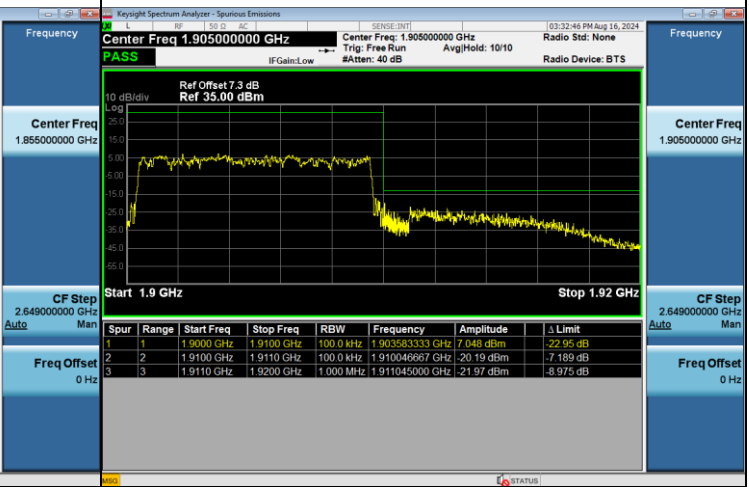
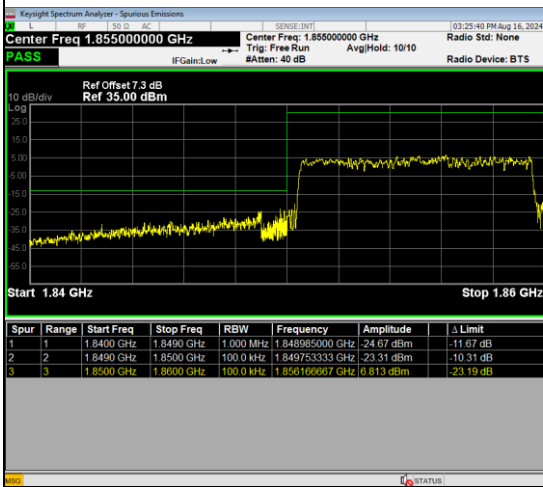
Channel 19150



50RB#0

Channel 18650

Channel 19150



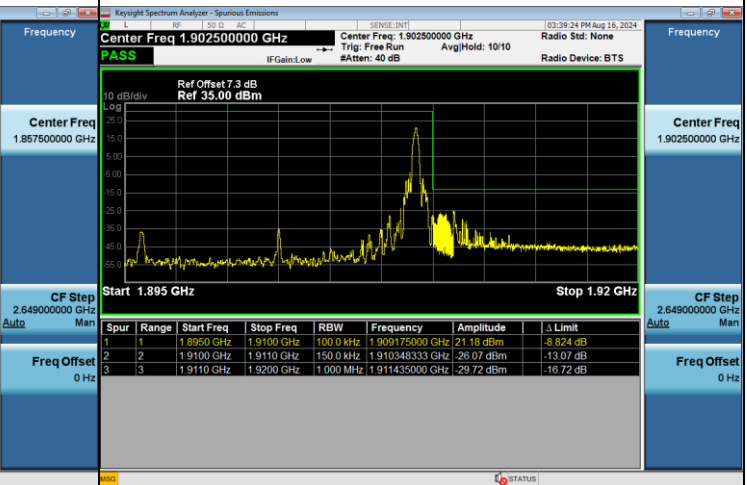
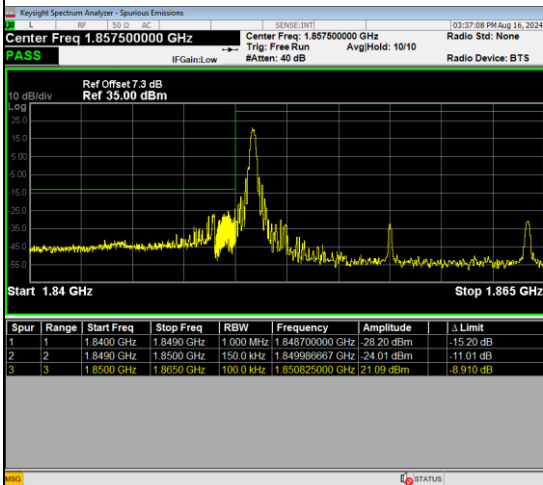
LTE Band 2_15MHz Spectrum Plot

1RB#0

1RB#74

Channel 18675

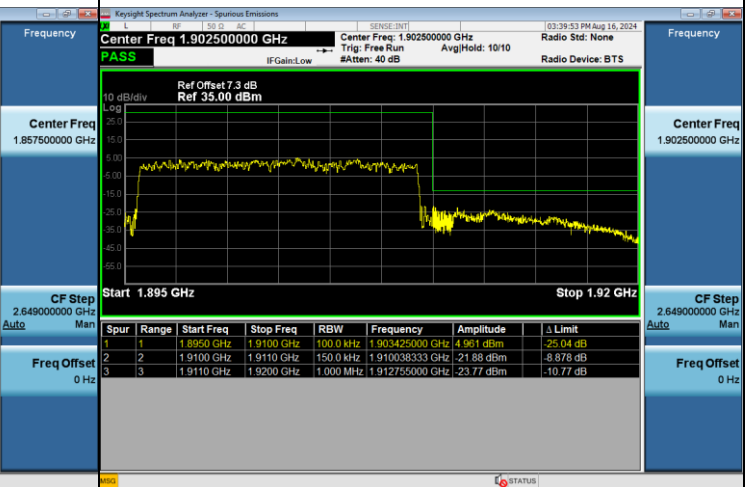
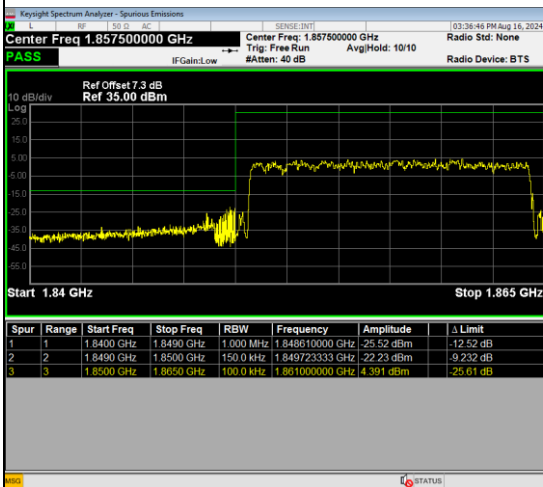
Channel 19125



75RB#0

Channel 18675

Channel 19125



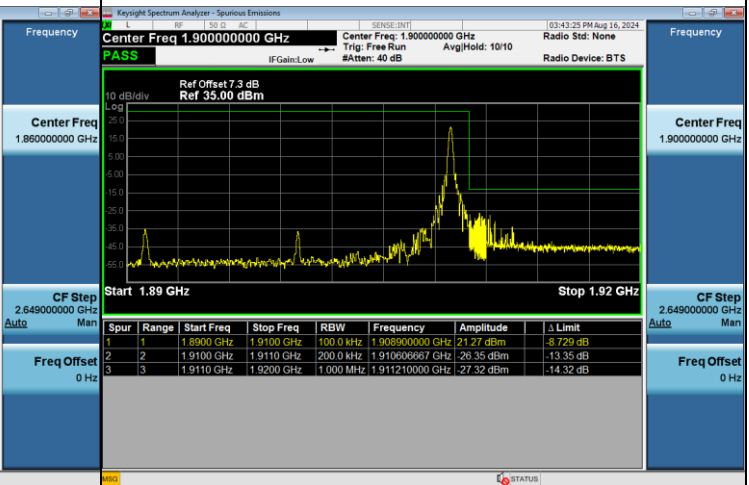
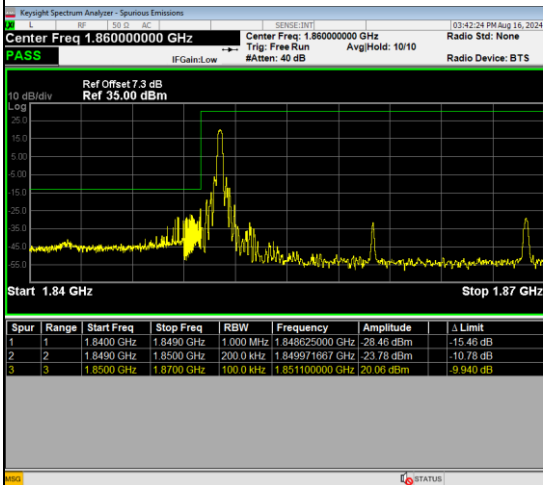
LTE Band 2_20MHz Spectrum Plot

1RB#0

1RB#99

Channel 18700

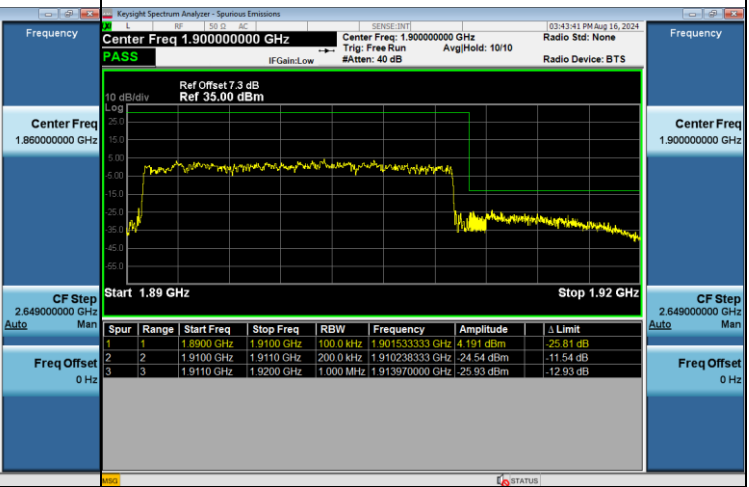
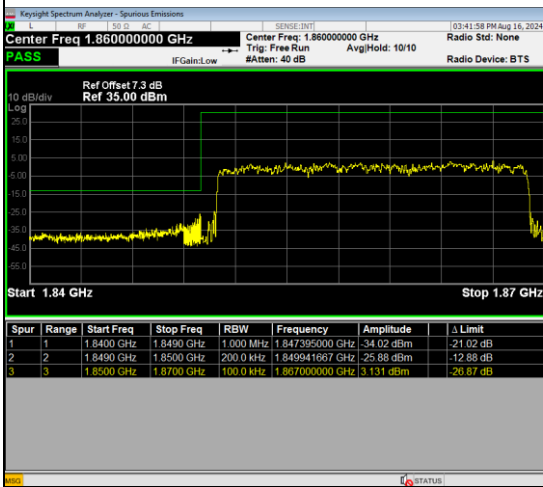
Channel 19100



100RB#0

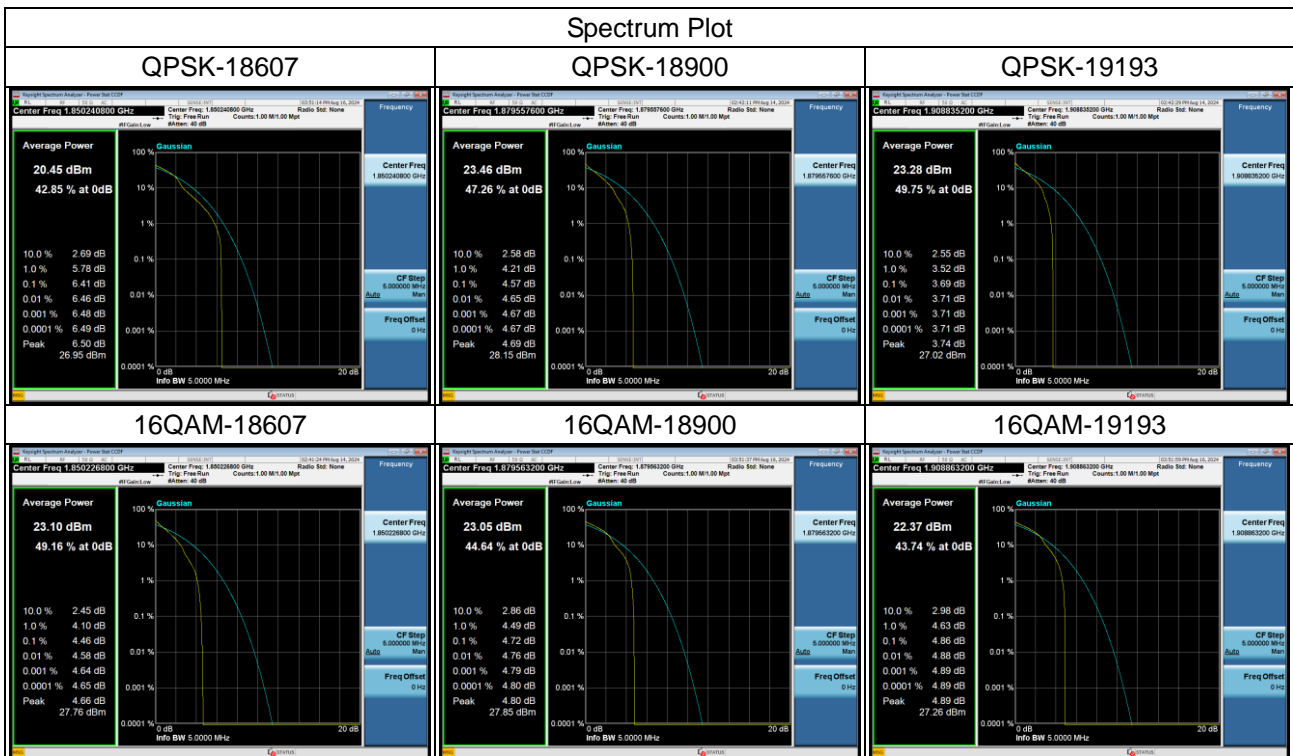
Channel 18700

Channel 19100

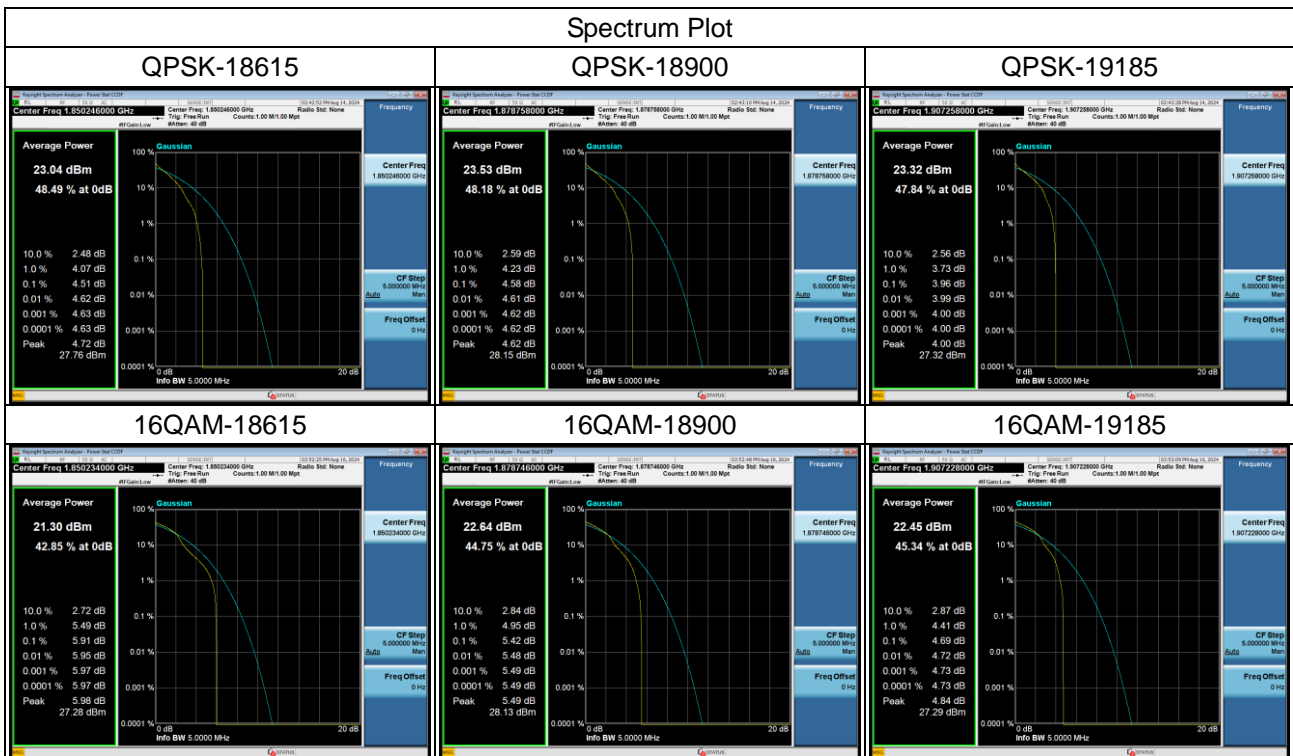


APPENDIX H - PEAK TO AVERAGE RATIO

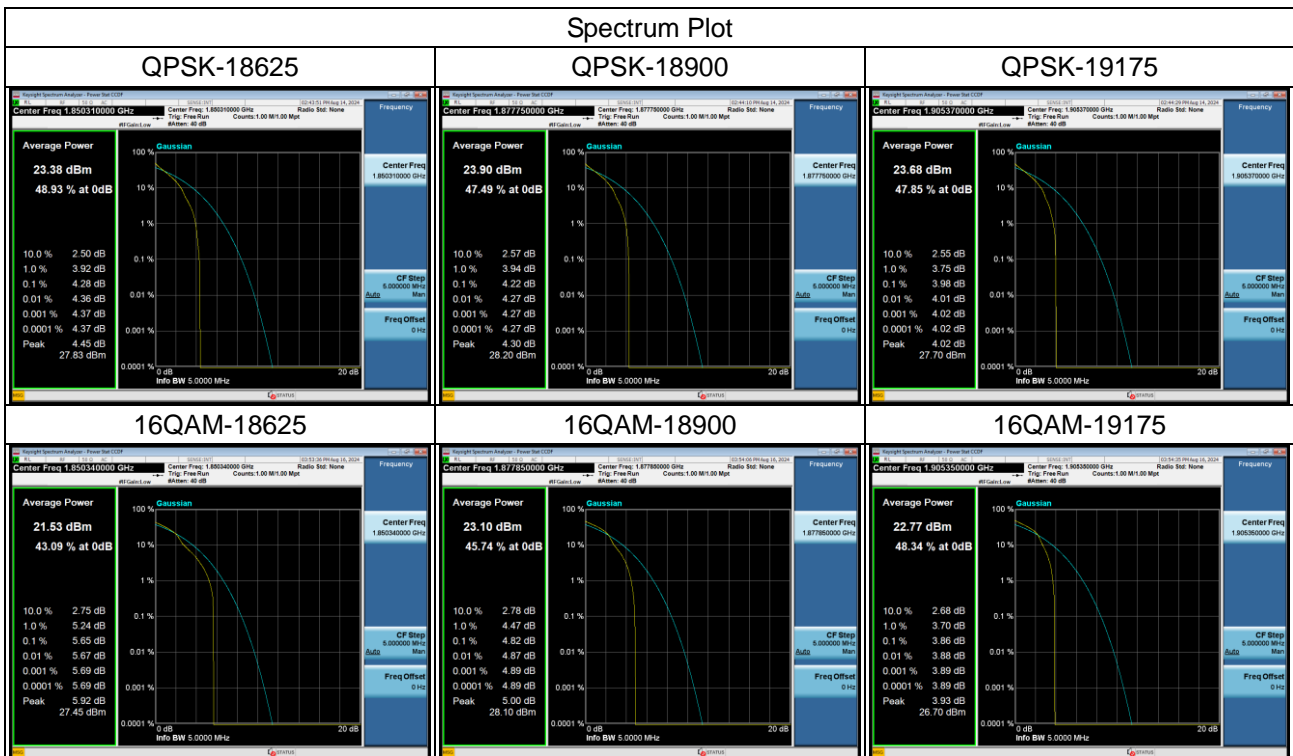
LTE Band 2_1.4MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18607	1850.7	6.41	4.46	13	Pass	
18900	1880	4.57	4.72	13	Pass	
19193	1909.3	3.69	4.86	13	Pass	



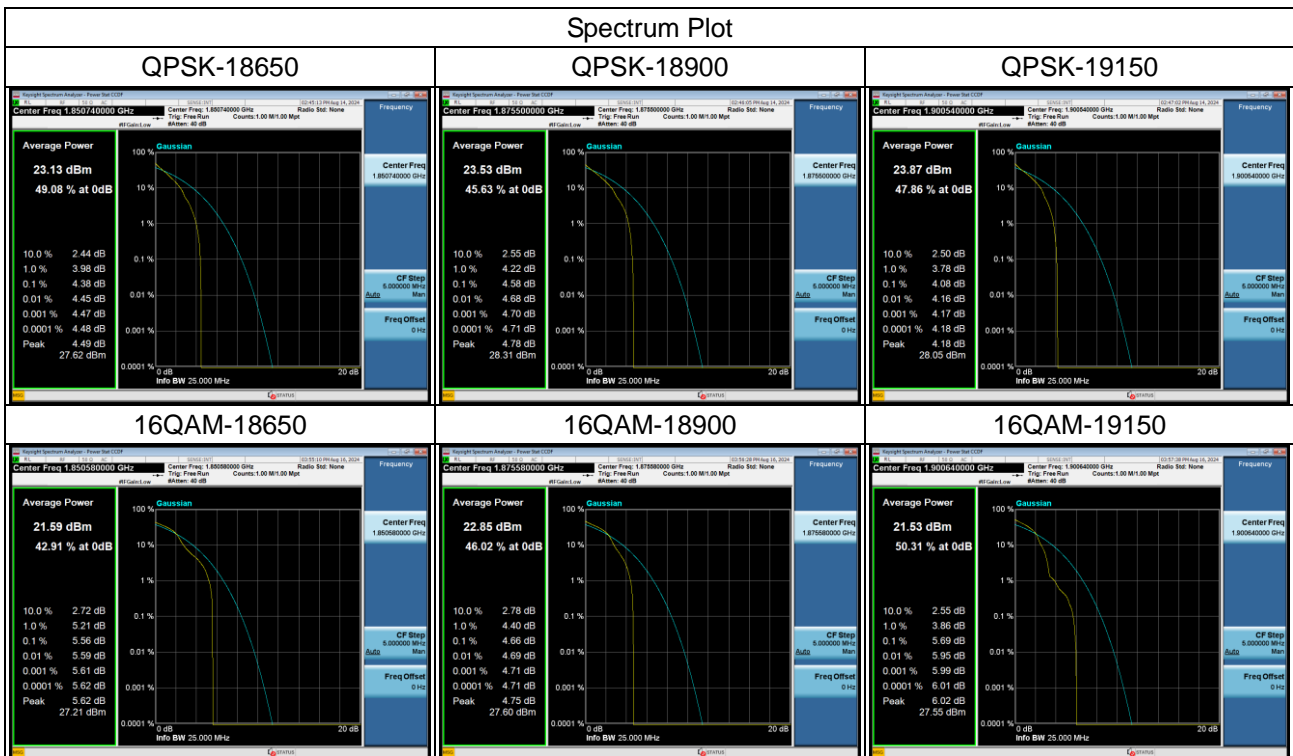
LTE Band 2_3MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18615	1851.5	4.51	5.91	13	Pass	
18900	1880	4.58	5.42	13	Pass	
19185	1908.5	3.96	4.69	13	Pass	



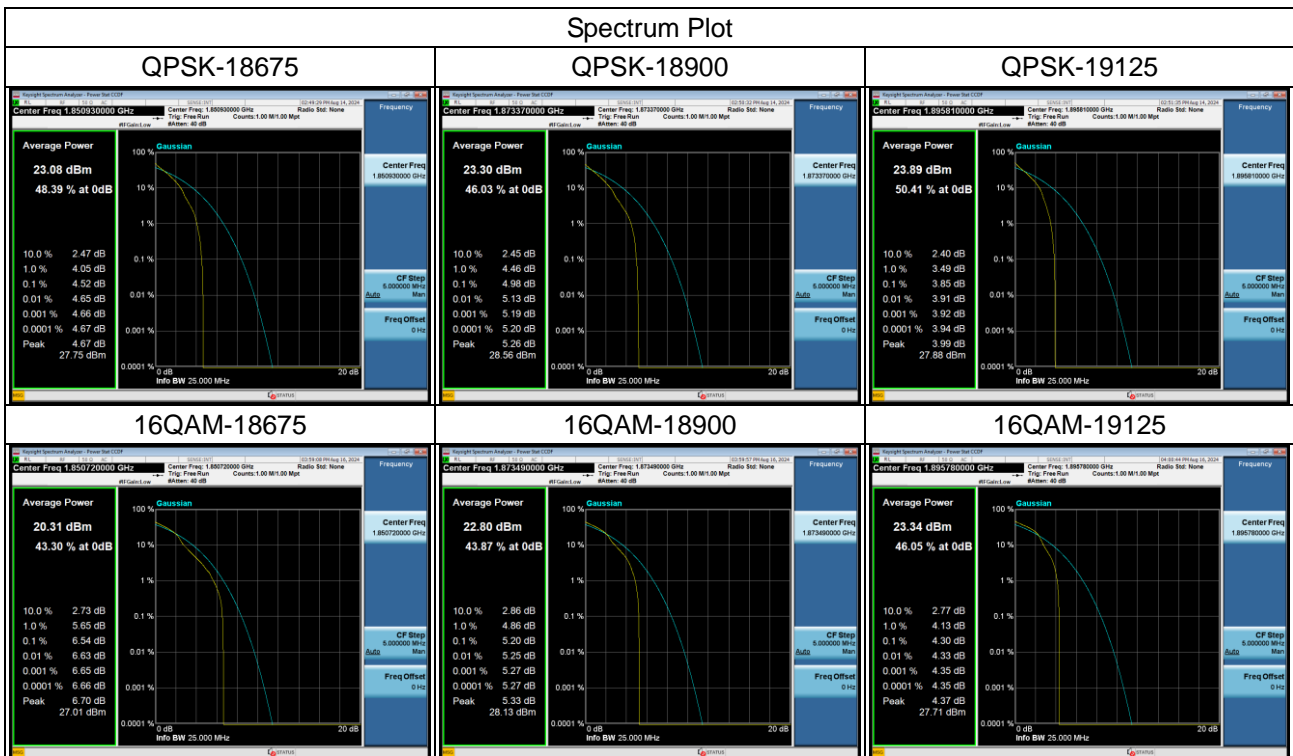
LTE Band 2_5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18625	1852.5	4.28	5.65	13	Pass	
18900	1880	4.22	4.82	13	Pass	
19175	1907.5	3.98	3.86	13	Pass	



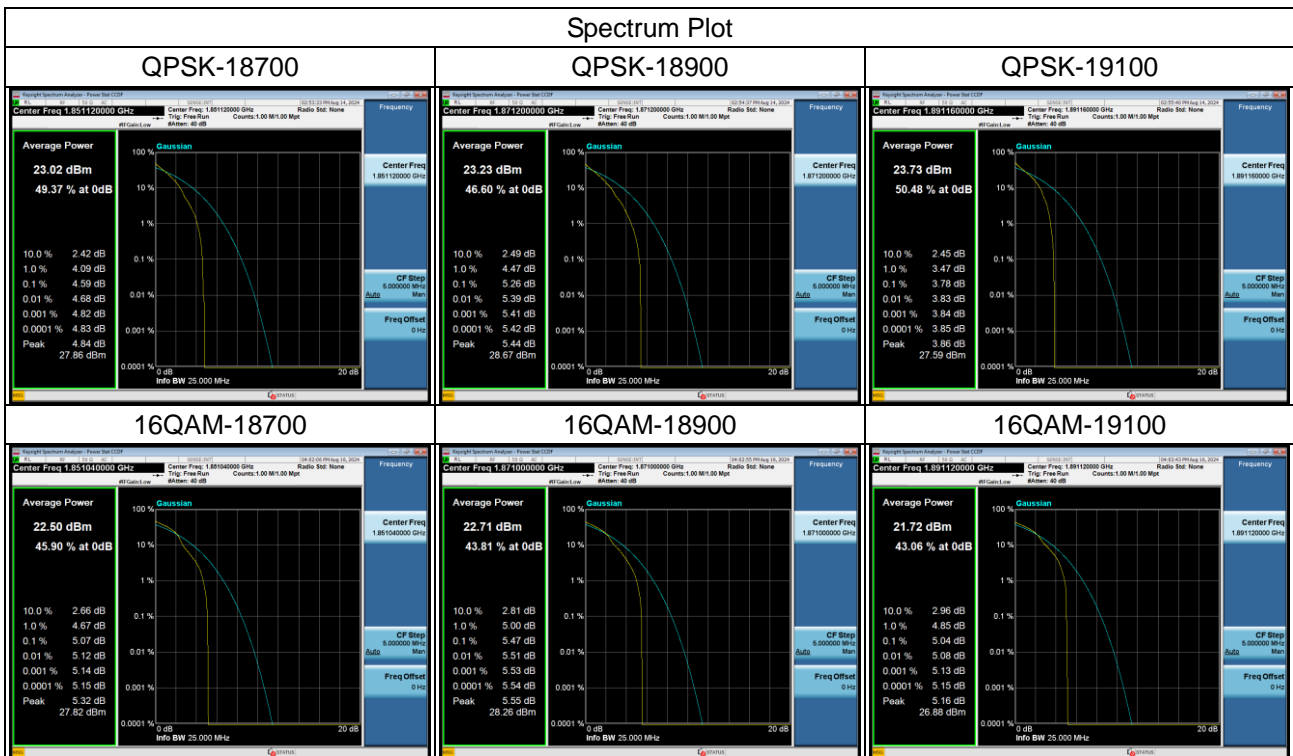
LTE Band 2_10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18650	1855	4.38	5.56	13	Pass	
18900	1880	4.58	4.66	13	Pass	
19150	1905	4.08	5.69	13	Pass	



LTE Band 2_15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18675	1857.5	4.52	6.54	13	Pass	
18900	1880	4.98	5.20	13	Pass	
19125	1902.5	3.85	4.30	13	Pass	



LTE Band 2_20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result	
		QPSK	16QAM			
18700	1860	4.59	5.07	13	Pass	
18900	1880	5.26	5.47	13	Pass	
19100	1900	3.78	5.04	13	Pass	



APPENDIX I - FREQUENCY STABILITY

Test Mode	LTE Band 2 _20MHz
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Frequency error versus temperature and supply voltage								
Temperature (°C)	Lowest channel Frequency error(MHz)	Highest channel Frequency error(MHz)	Reference point:-13dBm		Frequency calculation value (MHz) Limit:The resulting frequencies must remain within the band		Verdict	worst ppm
			f _L (MHz)	f _H (MHz)	Lowest channel limit:1850MHz	Highest channel limit:1910MHz		Record only
50	0.000048	0.0001361	1850.310000	1909.530000	1850.309952	1909.530136	Pass	0.0716
40	0.0001964	0.0000406			1850.309804	1909.530041	Pass	0.1056
30	0.0001443	0.0001146			1850.309856	1909.530115	Pass	0.0776
20	0.0000572	-0.0001348			1850.309943	1909.529865	Pass	-0.0709
10	-0.000119	-0.0001829			1850.310119	1909.529817	Pass	-0.0963
0	-0.0001153	-0.0001076			1850.310115	1909.529892	Pass	-0.0620
-10	-0.0001033	-0.0000375			1850.310103	1909.529963	Pass	-0.0555
-20	-0.0000386	-0.0000009			1850.310039	1909.529999	Pass	-0.0208
-30	-0.000168	0.0001543			1850.310168	1909.530154	Pass	-0.0903
Maximum voltage	0.0001912	-0.000152			1850.309809	1909.529848	Pass	0.1028
Minimum voltage	-0.0000471	0.0000052			1850.310047	1909.530005	Pass	-0.0253
Nominal voltage	-0.0001393	-0.0001239			1850.310139	1909.529876	Pass	-0.0749

Note: Nominal voltage= 3.8V, Maximum voltage= 4.5V, Minimum voltage= 3.4V.