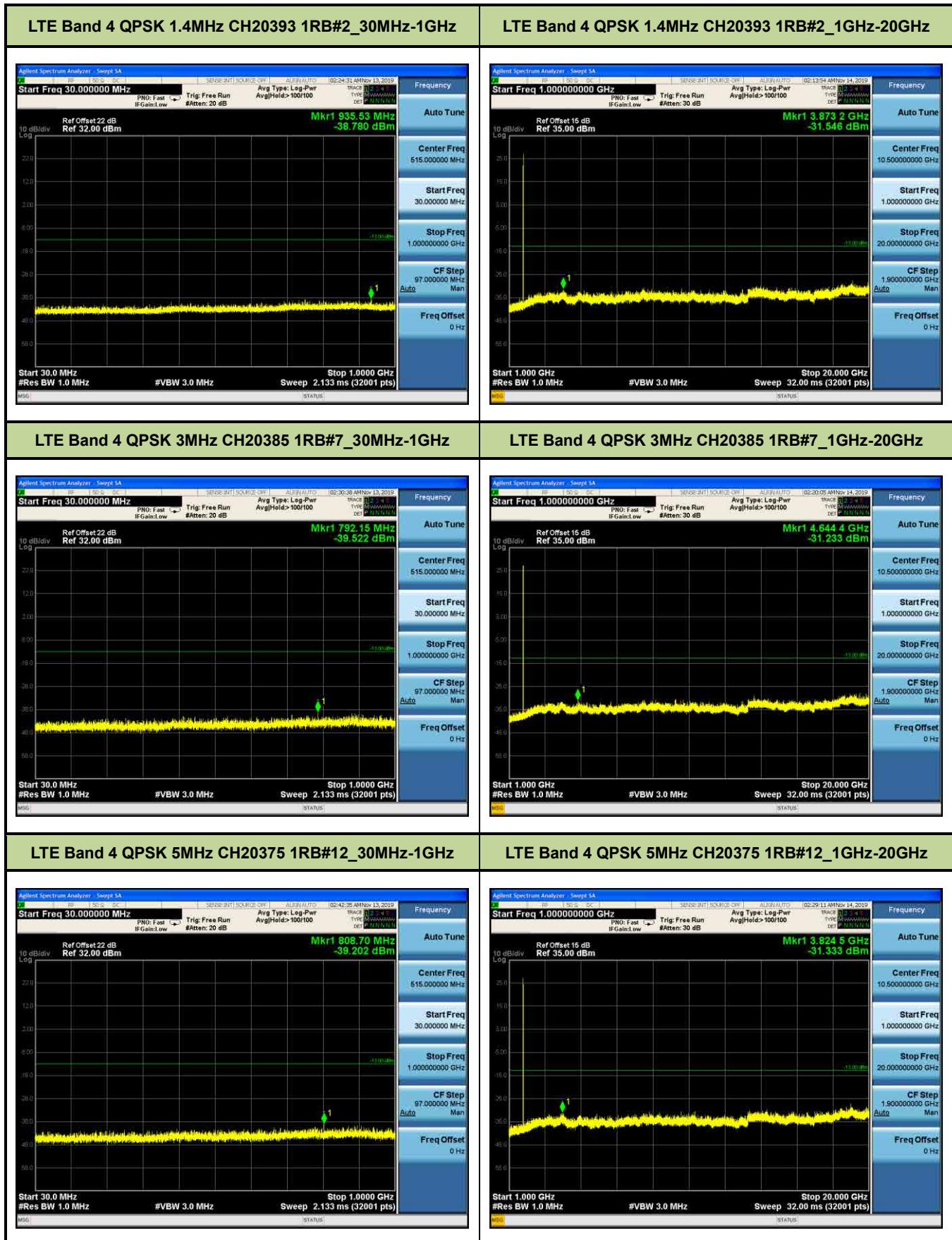
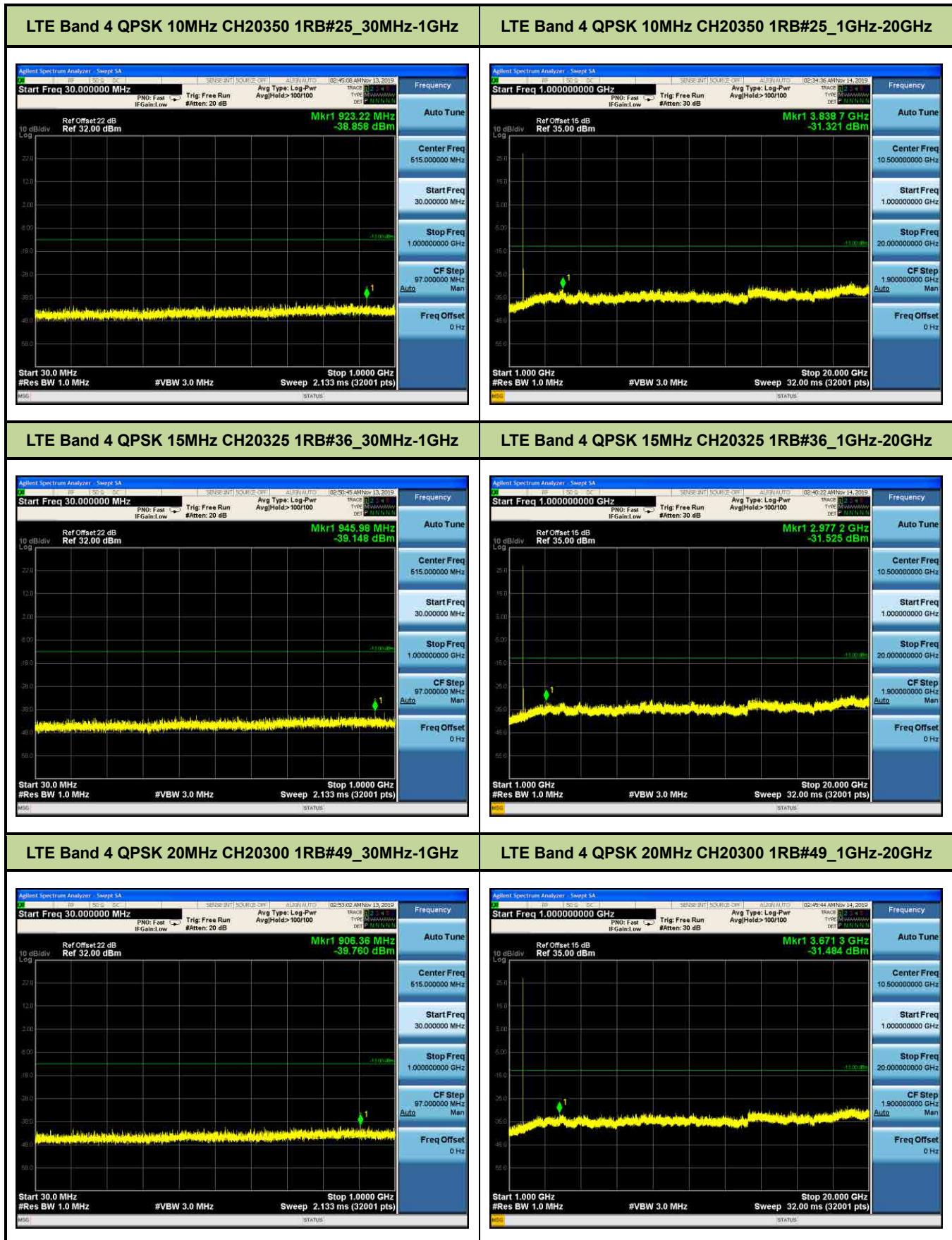
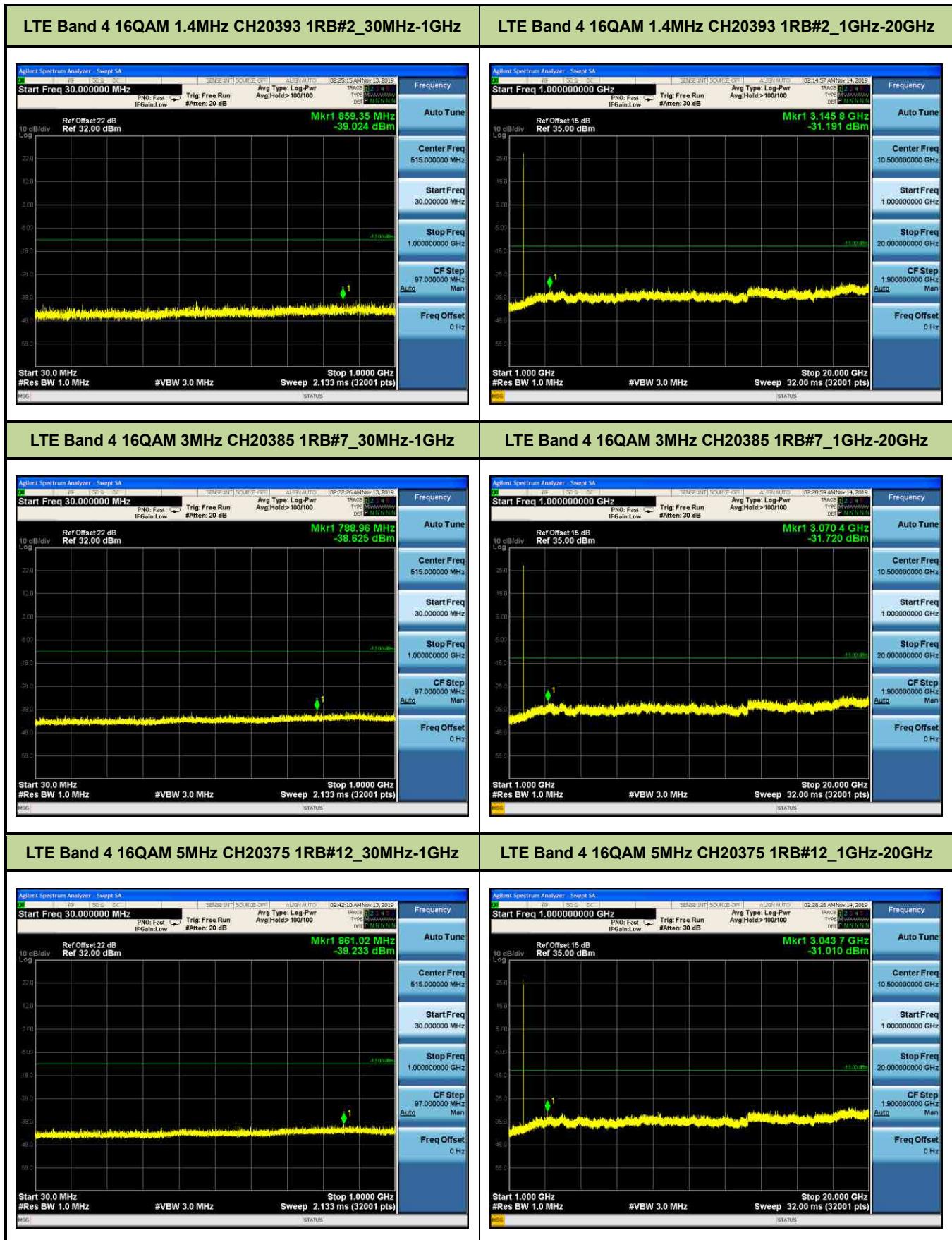


LTE Band 4 16QAM 10MHz CH20175 1RB#25_30MHz-1GHz	LTE Band 4 16QAM 10MHz CH20175 1RB#25_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 20 dB Mkr1 906.46 MHz -39.358 dBm 10 dB/div Ref Offset: 22 dB Ref 32.00 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p> <p>Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz STATUS: M66</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 30 dB Mkr1 3.809 0 GHz -30.820 dBm 10 dB/div Ref Offset: 15 dB Ref 35.00 dBm Frequency Auto Tune Center Freq 10.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 20.0000000000 GHz CF Step 1.9000000000 GHz Man Freq Offset 0 Hz</p> <p>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.0000 GHz STATUS: M66</p>
LTE Band 4 16QAM 15MHz CH20175 1RB#36_30MHz-1GHz	LTE Band 4 16QAM 15MHz CH20175 1RB#36_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 20 dB Mkr1 954.74 MHz -39.418 dBm 10 dB/div Ref Offset: 22 dB Ref 32.00 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p> <p>Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz STATUS: M66</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 30 dB Mkr1 3.813 2 GHz -31.073 dBm 10 dB/div Ref Offset: 15 dB Ref 35.00 dBm Frequency Auto Tune Center Freq 10.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 20.0000000000 GHz CF Step 1.9000000000 GHz Man Freq Offset 0 Hz</p> <p>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.0000 GHz STATUS: M66</p>
LTE Band 4 16QAM 20MHz CH20175 1RB#49_30MHz-1GHz	LTE Band 4 16QAM 20MHz CH20175 1RB#49_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 20 dB Mkr1 792.57 MHz -39.068 dBm 10 dB/div Ref Offset: 22 dB Ref 32.00 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p> <p>Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz STATUS: M66</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 IF Gain: Low #Atten: 30 dB Mkr1 3.820 9 GHz -31.604 dBm 10 dB/div Ref Offset: 16 dB Ref 35.00 dBm Frequency Auto Tune Center Freq 10.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 20.0000000000 GHz CF Step 1.9000000000 GHz Man Freq Offset 0 Hz</p> <p>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.0000 GHz STATUS: M66</p>

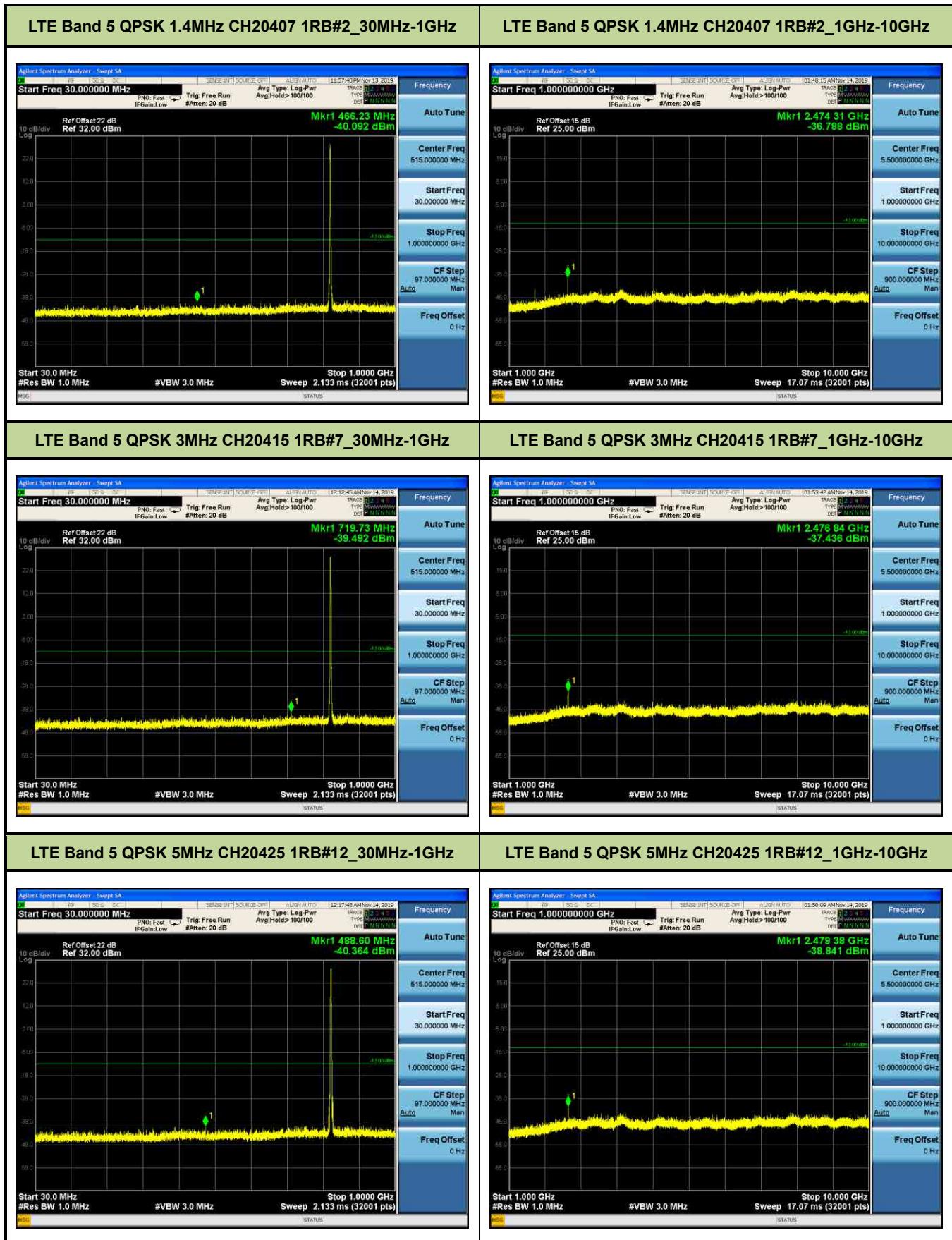


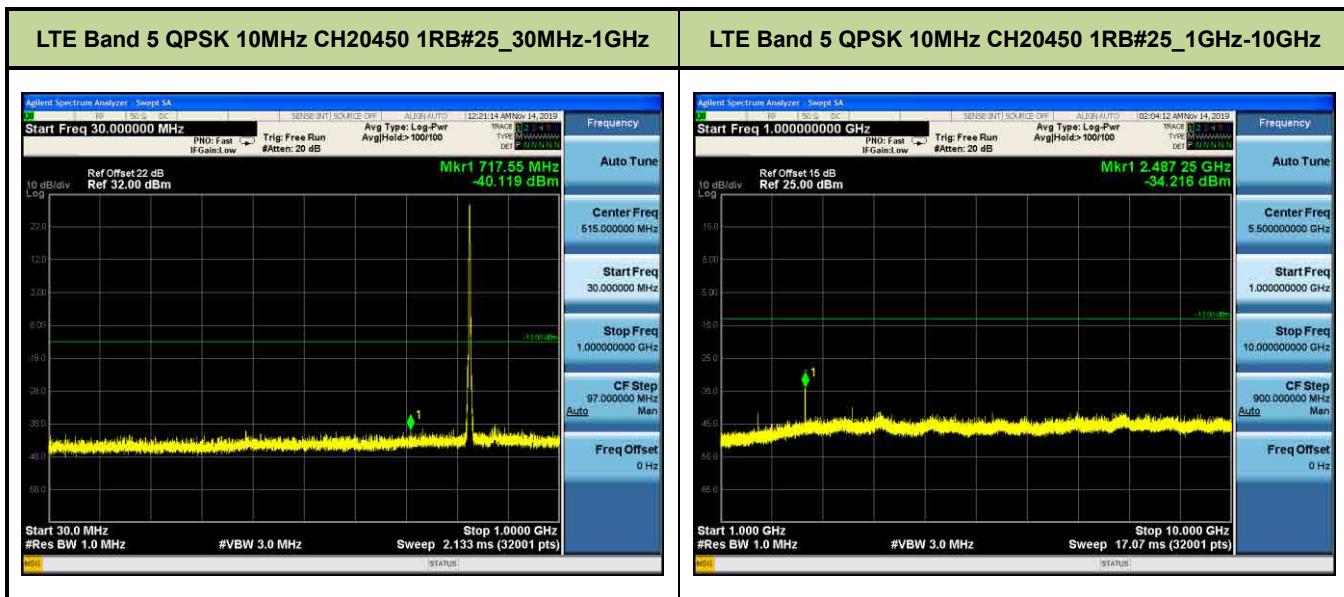




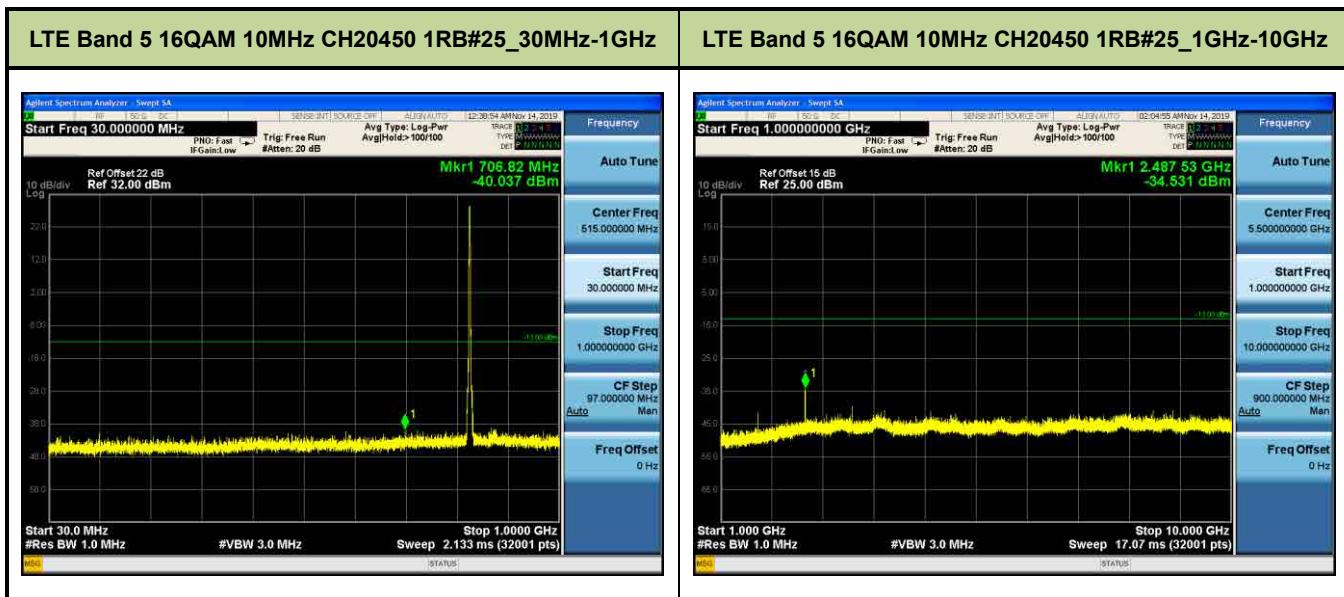
LTE Band 4 16QAM 10MHz CH20350 1RB#25_30MHz-1GHz	LTE Band 4 16QAM 10MHz CH20350 1RB#25_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB IF Gain: Low #Atten: 20 dB Mkr1 916.22 MHz -39.447 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz Mkr1 916.22 MHz -39.447 dBm M56 STATUS:</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB IF Gain: Low #Atten: 30 dB Mkr1 3,063.9 GHz -32.175 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.000 GHz Mkr1 3,063.9 GHz -32.175 dBm M56 STATUS:</p>
LTE Band 4 16QAM 15MHz CH20325 1RB#36_30MHz-1GHz	LTE Band 4 16QAM 15MHz CH20325 1RB#36_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB IF Gain: Low #Atten: 20 dB Mkr1 827.31 MHz -39.326 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz Mkr1 827.31 MHz -39.326 dBm M56 STATUS:</br></br></p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB IF Gain: Low #Atten: 30 dB Mkr1 3,851.8 GHz -32.094 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.000 GHz Mkr1 3,851.8 GHz -32.094 dBm M56 STATUS:</p>
LTE Band 4 16QAM 20MHz CH20300 1RB#49_30MHz-1GHz	LTE Band 4 16QAM 20MHz CH20300 1RB#49_1GHz-20GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB IF Gain: Low #Atten: 20 dB Mkr1 889.81 MHz -39.175 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz Mkr1 889.81 MHz -39.175 dBm M56 STATUS:</br></br></p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB IF Gain: Low #Atten: 30 dB Mkr1 4,746.6 GHz -31.226 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 32.00 ms (32001 pts) Stop 20.000 GHz Mkr1 4,746.6 GHz -31.226 dBm M56 STATUS:</p>

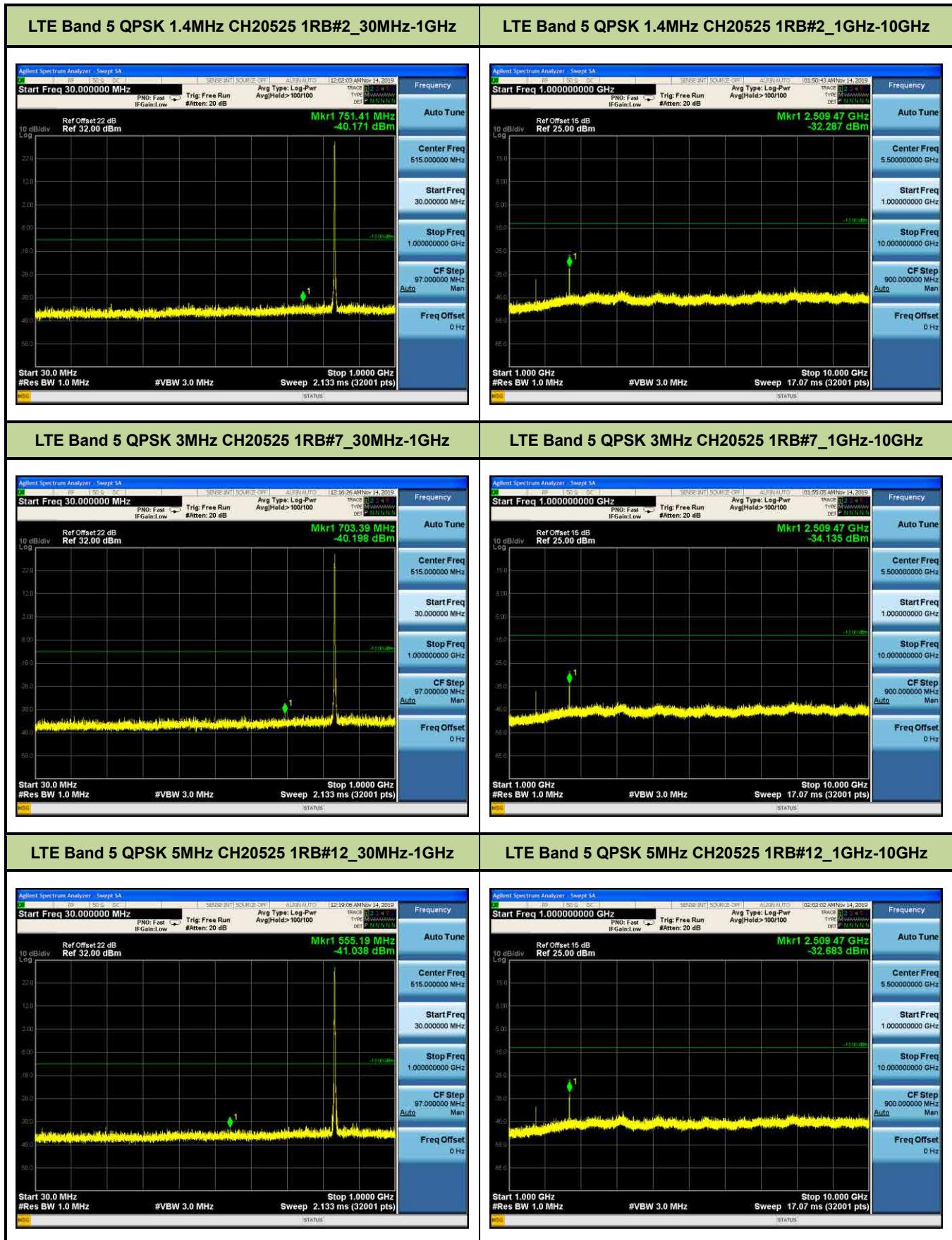
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result	
LTE Band 5 (Low Channel)	QPSK	CH20407 / 824.7MHz	1.4	1	2	Pass	
		CH20415 / 825.5MHz	3	1	7	Pass	
		CH20425 / 826.5MHz	5	1	12	Pass	
		CH20450 / 829MHz	10	1	25	Pass	
	16QAM	CH20407 / 824.7MHz	1.4	1	2	Pass	
		CH20415 / 825.5MHz	3	1	7	Pass	
		CH20425 / 826.5MHz	5	1	12	Pass	
		CH20450 / 829MHz	10	1	25	Pass	
LTE Band 5 (Middle Channel)	QPSK	CH20525 / 836.5MHz	1.4	1	2	Pass	
			3	1	7	Pass	
			5	1	12	Pass	
			10	1	25	Pass	
	16QAM		1.4	1	2	Pass	
			3	1	7	Pass	
			5	1	12	Pass	
			10	1	25	Pass	
LTE Band 5 (High Channel)	QPSK	CH20643 / 848.3MHz	1.4	1	2	Pass	
		CH20635 / 847.5MHz	3	1	7	Pass	
		CH20625 / 846.5MHz	5	1	12	Pass	
		CH20600 / 844MHz	10	1	25	Pass	
	16QAM	CH20643 / 848.3MHz	1.4	1	2	Pass	
		CH20635 / 847.5MHz	3	1	7	Pass	
		CH20625 / 846.5MHz	5	1	12	Pass	
		CH20600 / 844MHz	10	1	25	Pass	

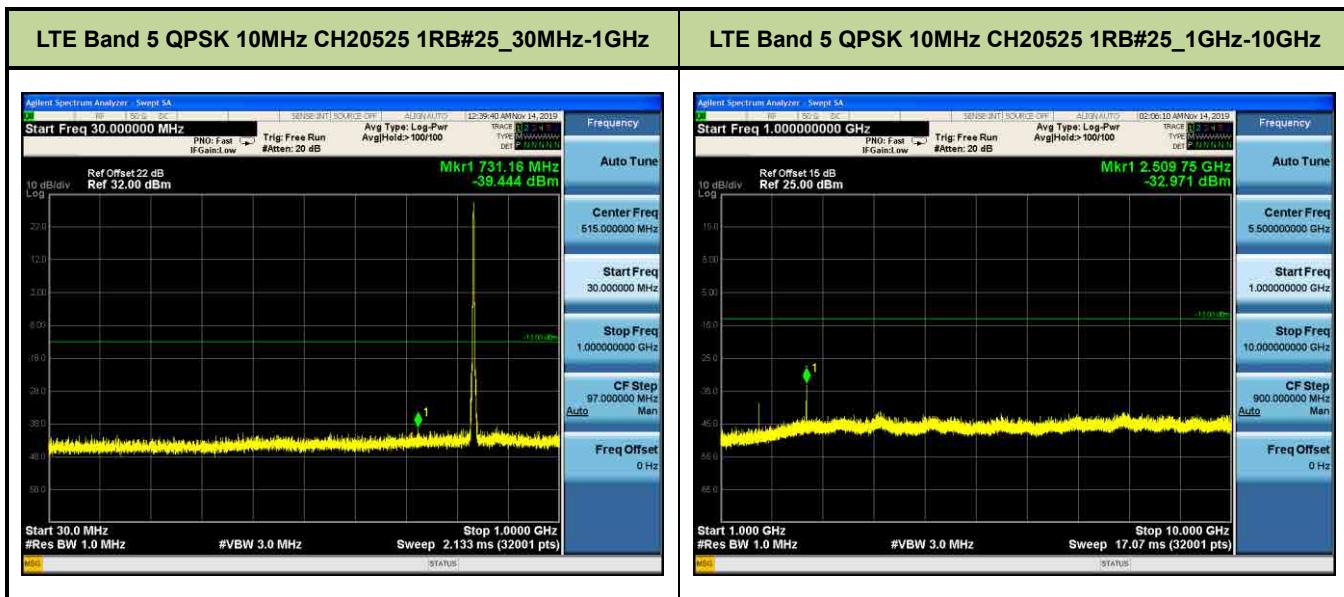




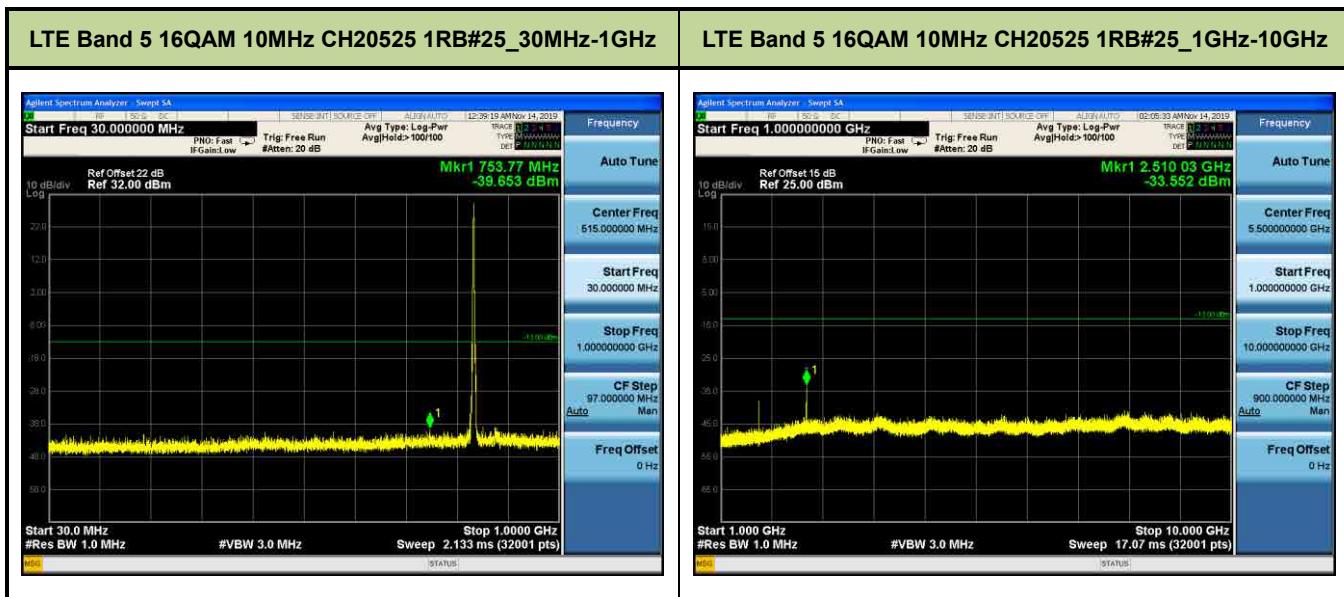
LTE Band 5 16QAM 1.4MHz CH20407 1RB#2_30MHz-1GHz	LTE Band 5 16QAM 1.4MHz CH20407 1RB#2_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 279.17 MHz -40.605 dBm 10 dB/div Ref Offset 22 dB Ref 32.00 dBm Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) STOP</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.000000000 GHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 2.474 31 GHz -37.319 dBm 10 dB/div Ref Offset 15 dB Ref 25.00 dBm Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) STOP</p>
LTE Band 5 16QAM 3MHz CH20415 1RB#7_30MHz-1GHz	LTE Band 5 16QAM 3MHz CH20415 1RB#7_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 259.98 MHz -41.039 dBm 10 dB/div Ref Offset 22 dB Ref 32.00 dBm Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) STOP</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.000000000 GHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 2.476 58 GHz -37.843 dBm 10 dB/div Ref Offset 15 dB Ref 25.00 dBm Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) STOP</p>
LTE Band 5 16QAM 5MHz CH20425 1RB#12_30MHz-1GHz	LTE Band 5 16QAM 5MHz CH20425 1RB#12_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 702.00 MHz -38.543 dBm 10 dB/div Ref Offset 22 dB Ref 32.00 dBm Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) STOP</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.000000000 GHz PNO: Fast IF Gain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pwr Avg/Hold> 100/100 Mkr1 2.479 66 GHz -37.863 dBm 10 dB/div Ref Offset 15 dB Ref 25.00 dBm Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) STOP</p>

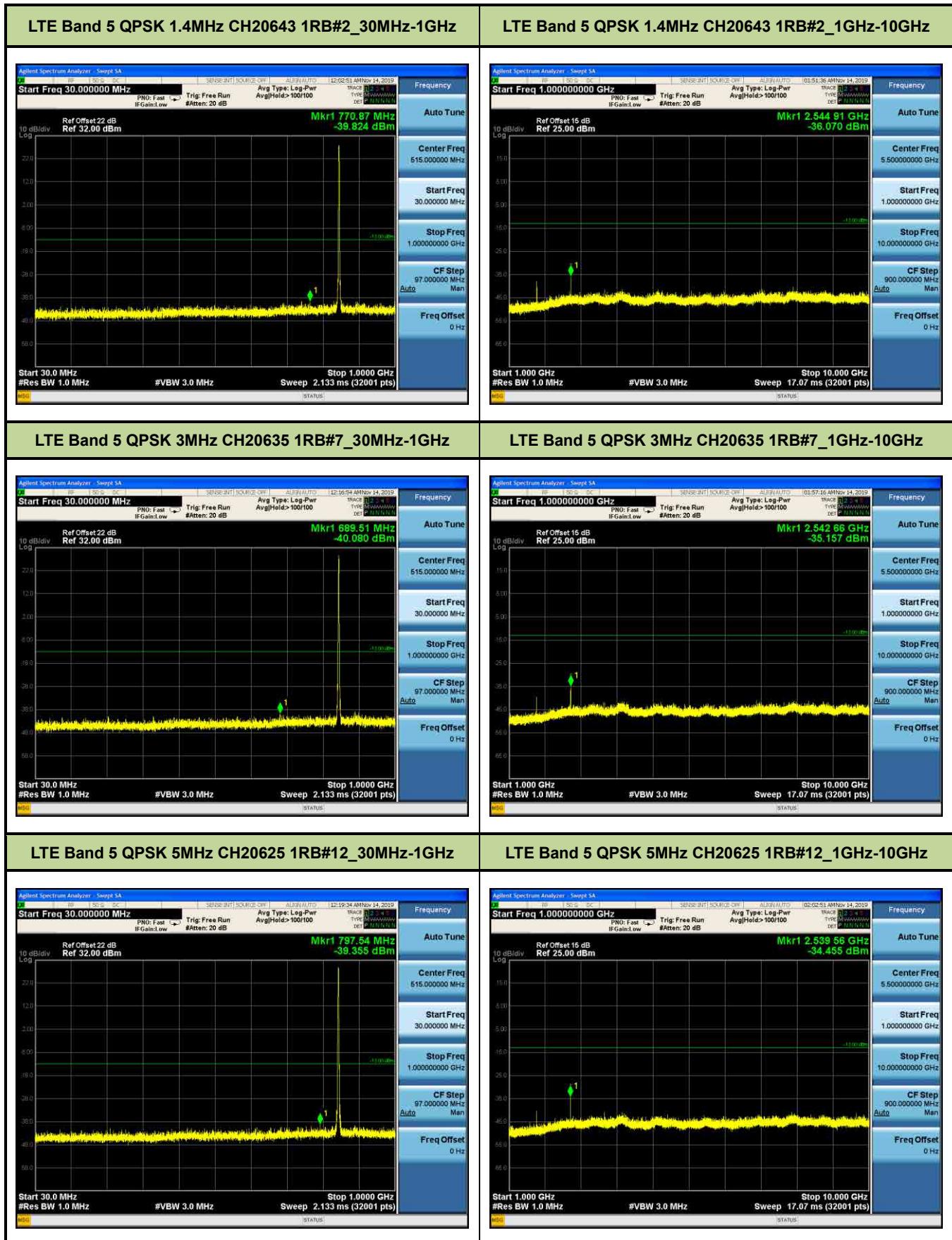


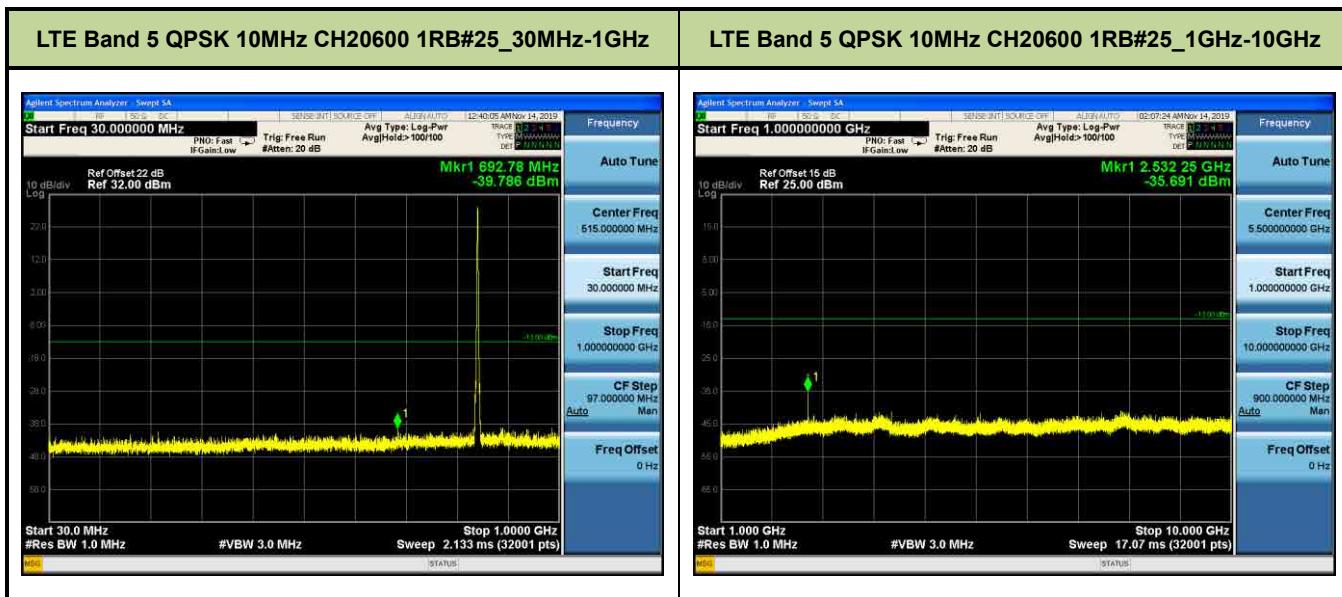


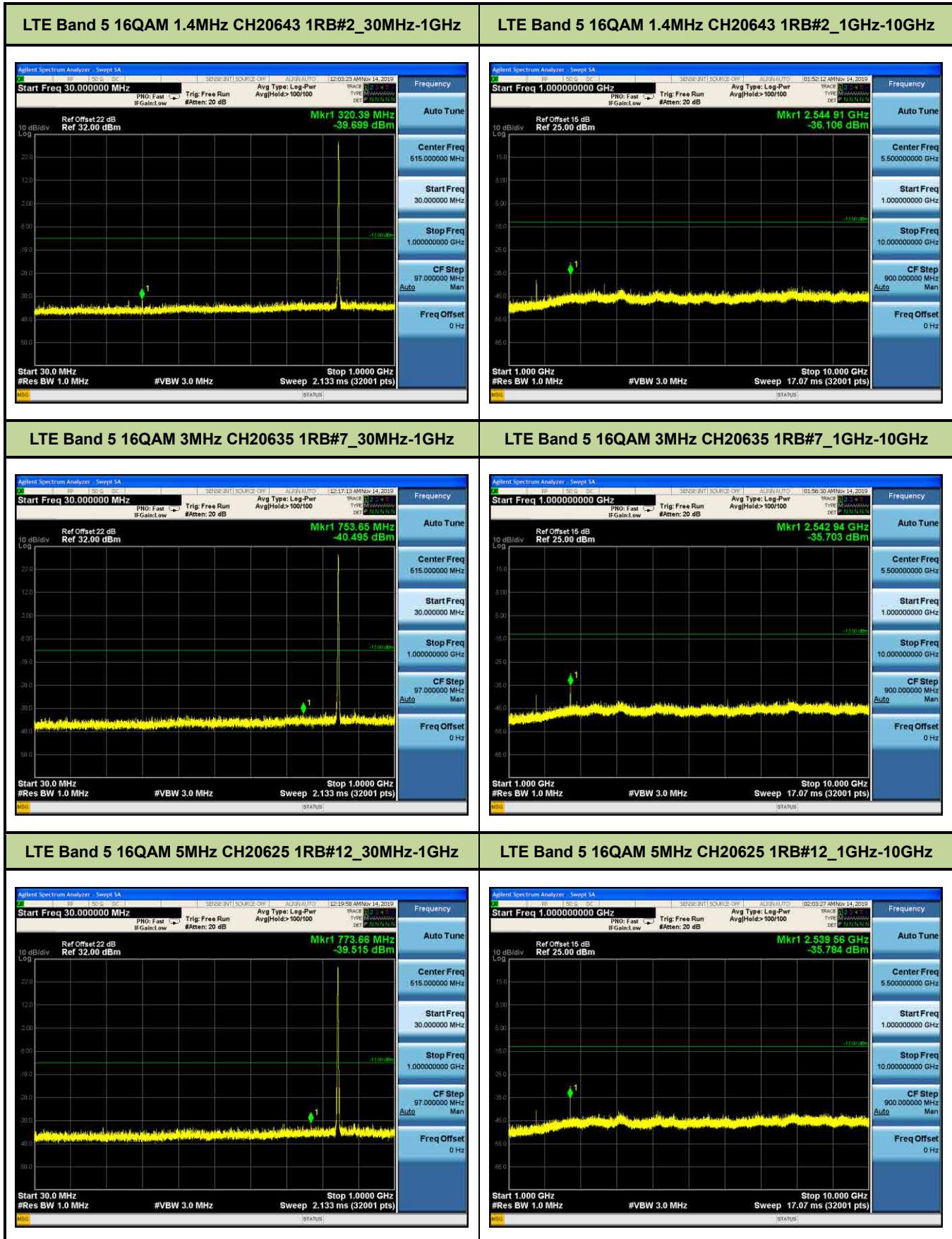


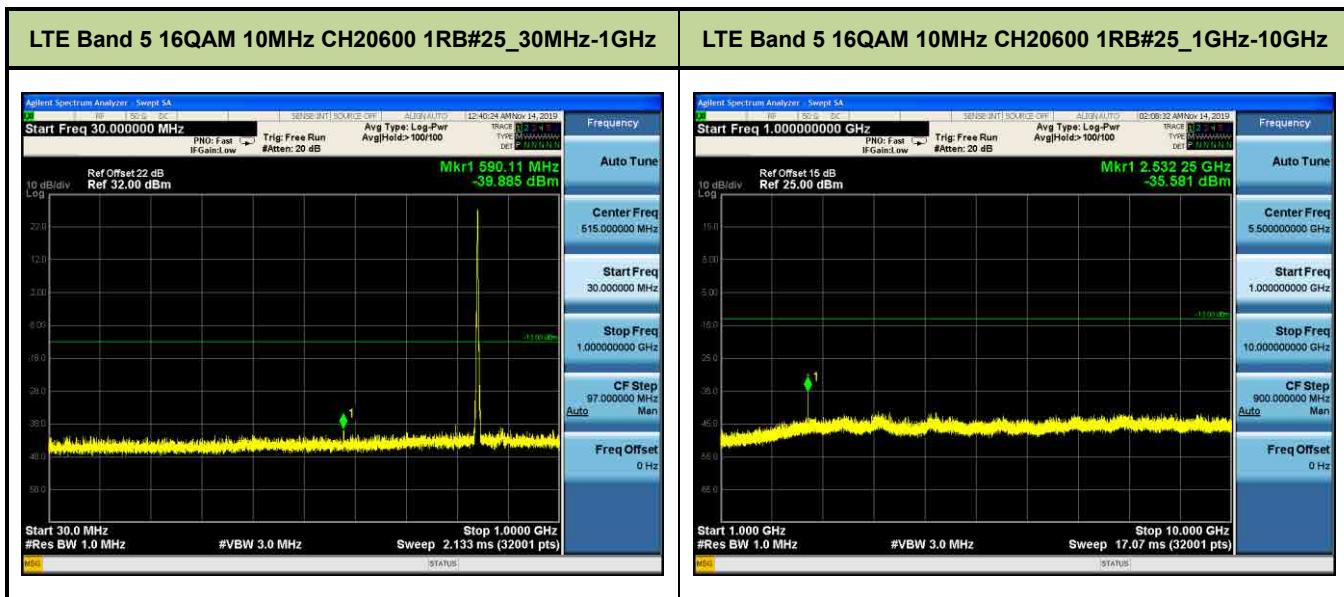
LTE Band 5 16QAM 1.4MHz CH20525 1RB#2_30MHz-1GHz	LTE Band 5 16QAM 1.4MHz CH20525 1RB#2_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm 10 dB/div Log Mkr1 754.38 MHz -39.677 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB Ref 25.00 dBm 10 dB/div Log Mkr1 2.50919 GHz -34.921 dBm Frequency Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Stop 10.000 GHz</p>
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm 10 dB/div Log Mkr1 754.92 MHz -39.799 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB Ref 25.00 dBm 10 dB/div Log Mkr1 2.50947 GHz -34.714 dBm Frequency Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Stop 10.000 GHz</p>
<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm 10 dB/div Log Mkr1 698.24 MHz -39.901 dBm Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Stop 1.0000 GHz</p>	<p>Agilent Spectrum Analyzer - Sweep SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB Ref 25.00 dBm 10 dB/div Log Mkr1 2.50975 GHz -34.583 dBm Frequency Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Stop 10.000 GHz</p>



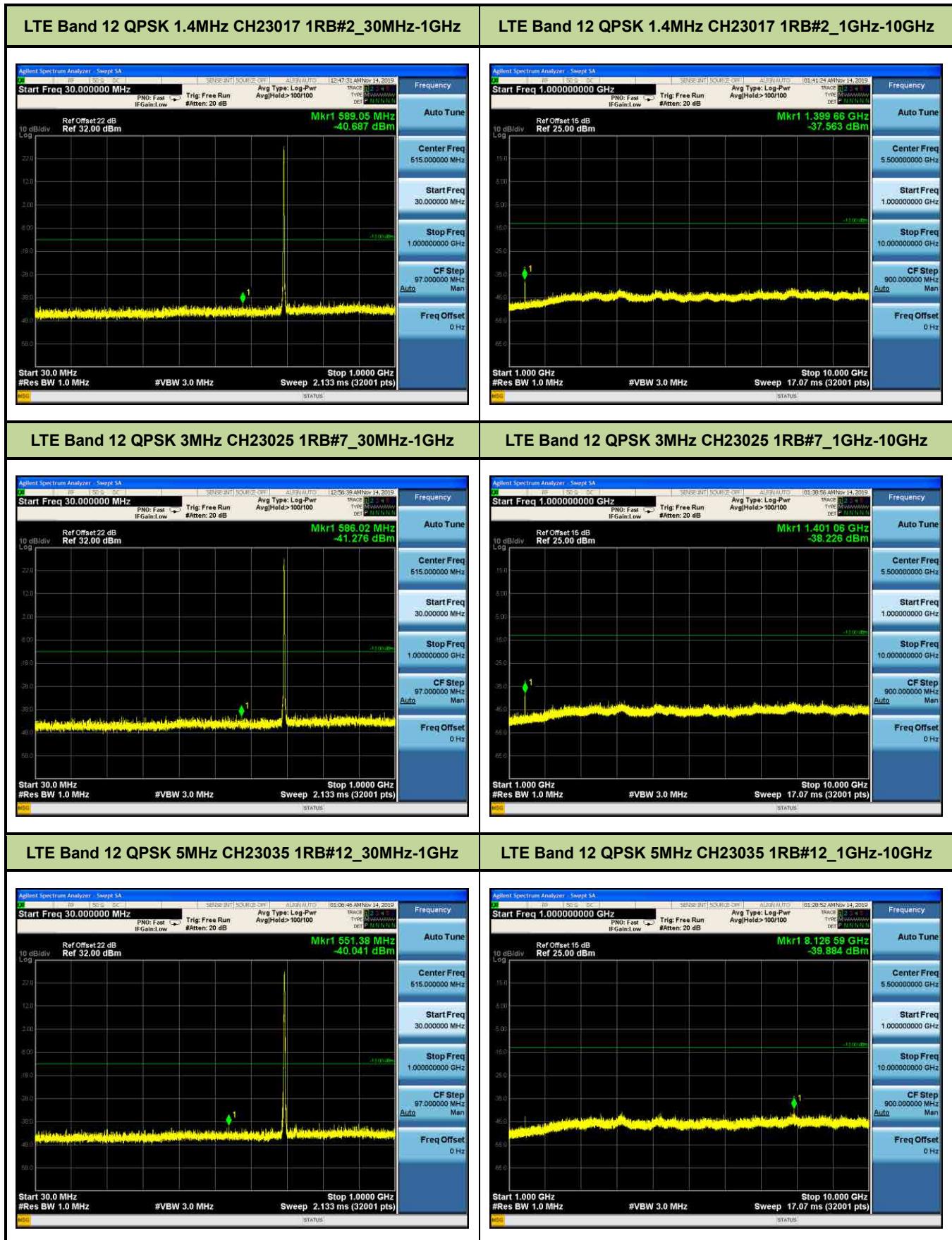


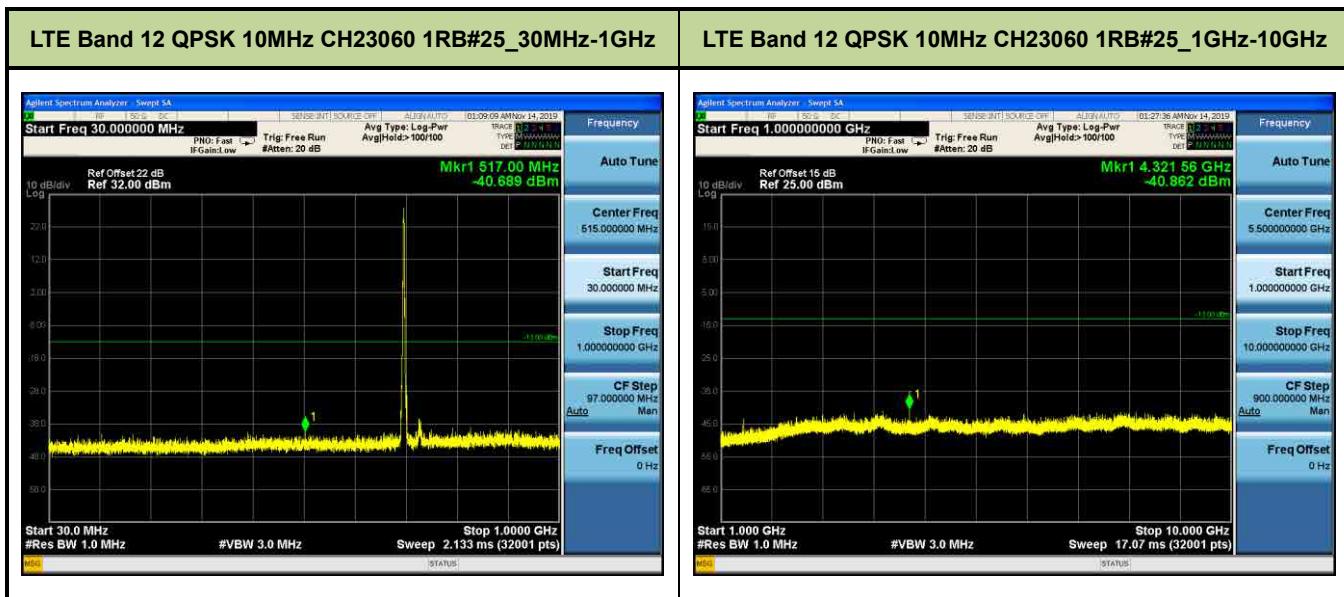


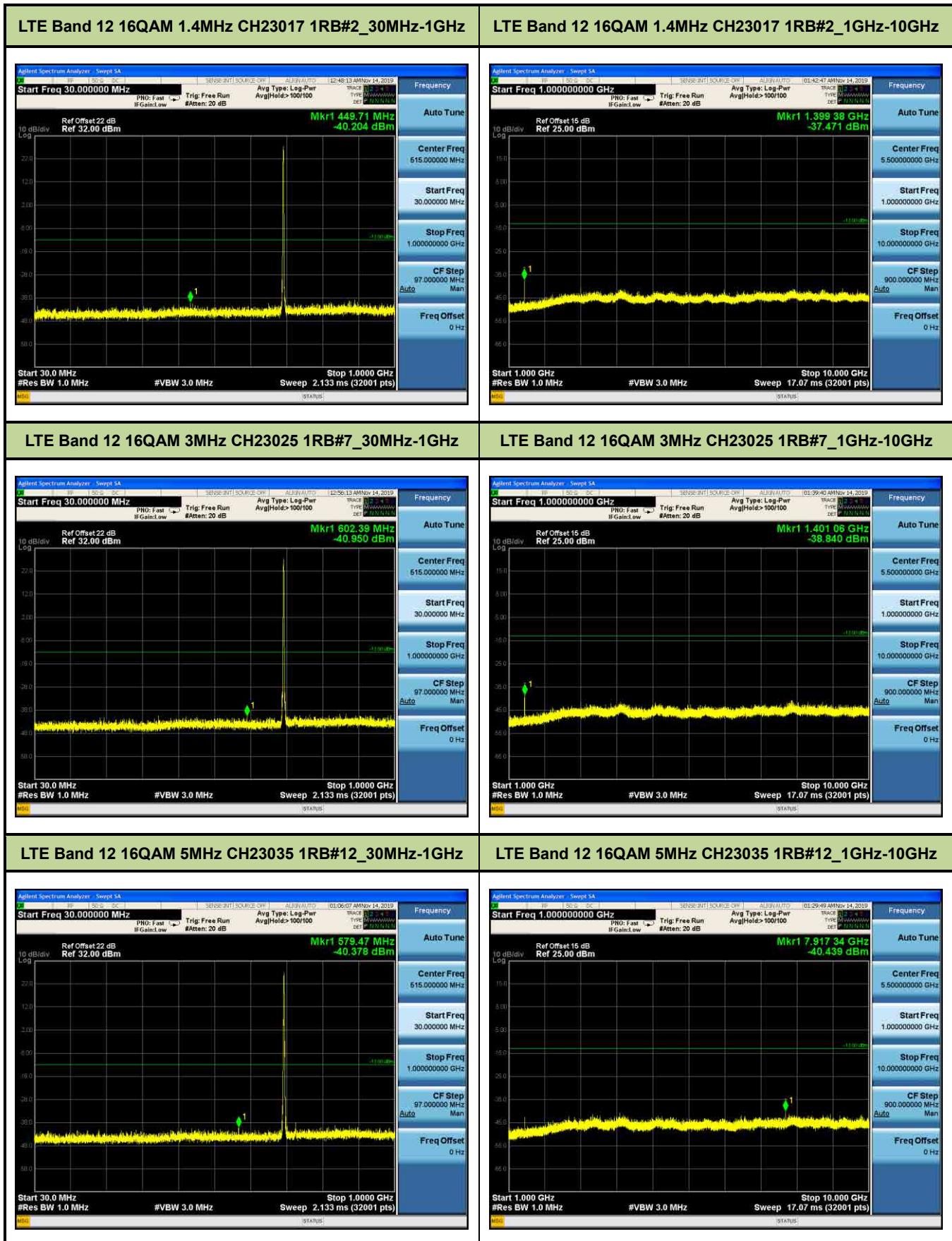


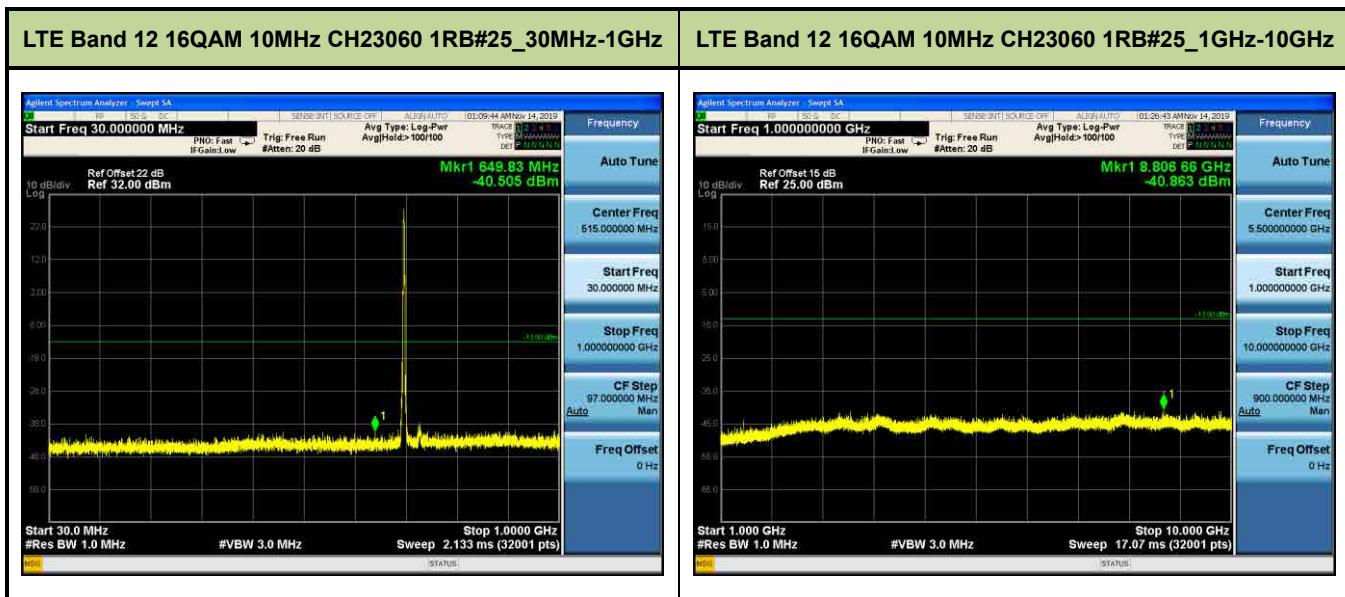


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result	
LTE Band 12 (Low Channel)	QPSK	CH23017 / 699.7MHz	1.4	1	2	Pass	
		CH23025 / 700.5MHz	3	1	7	Pass	
		CH23035 / 701.5MHz	5	1	12	Pass	
		CH23060 / 704MHz	10	1	25	Pass	
	16QAM	CH23017 / 699.7MHz	1.4	1	2	Pass	
		CH23025 / 700.5MHz	3	1	7	Pass	
		CH23035 / 701.5MHz	5	1	12	Pass	
		CH23060 / 704MHz	10	1	25	Pass	
LTE Band 12 (Middle Channel)	QPSK	CH23095 / 707.5MHz	1.4	1	2	Pass	
			3	1	7	Pass	
			5	1	12	Pass	
			10	1	25	Pass	
	16QAM		1.4	1	2	Pass	
			3	1	7	Pass	
			5	1	12	Pass	
			10	1	25	Pass	
LTE Band 12 (High Channel)	QPSK	CH23173 / 715.3MHz	1.4	1	2	Pass	
		CH23165 / 714.5MHz	3	1	7	Pass	
		CH23155 / 713.5MHz	5	1	12	Pass	
		CH23130 / 711MHz	10	1	25	Pass	
	16QAM	CH23173 / 715.3MHz	1.4	1	2	Pass	
		CH23165 / 714.5MHz	3	1	7	Pass	
		CH23155 / 713.5MHz	5	1	12	Pass	
		CH23130 / 711MHz	10	1	25	Pass	

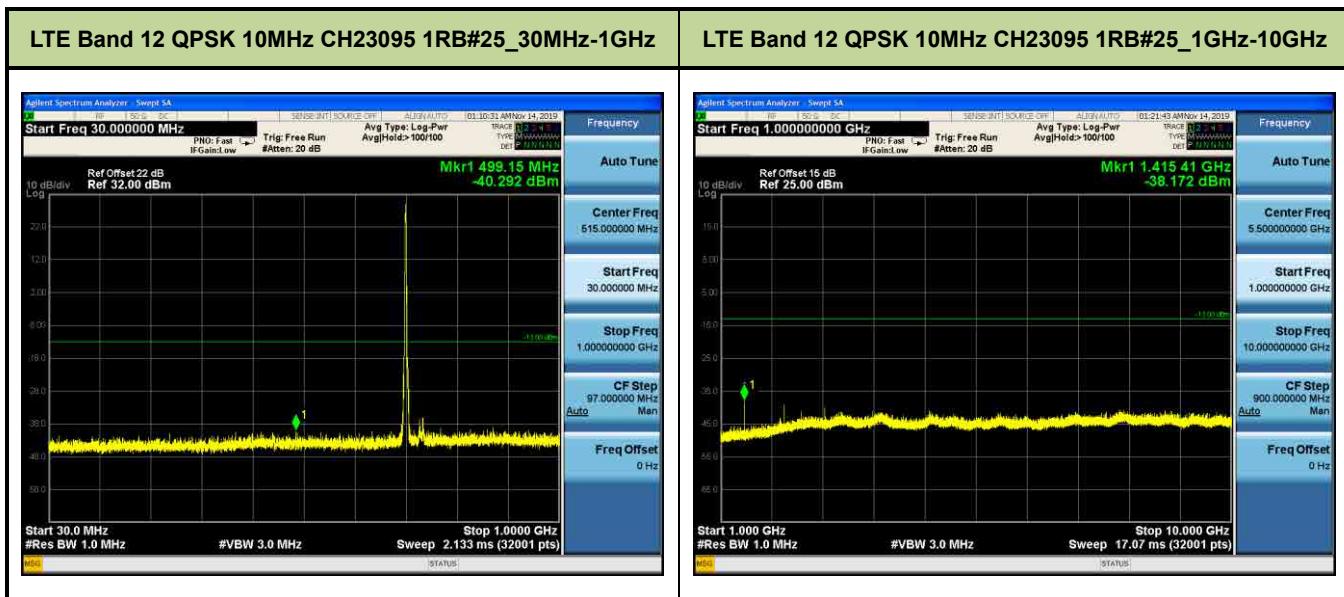


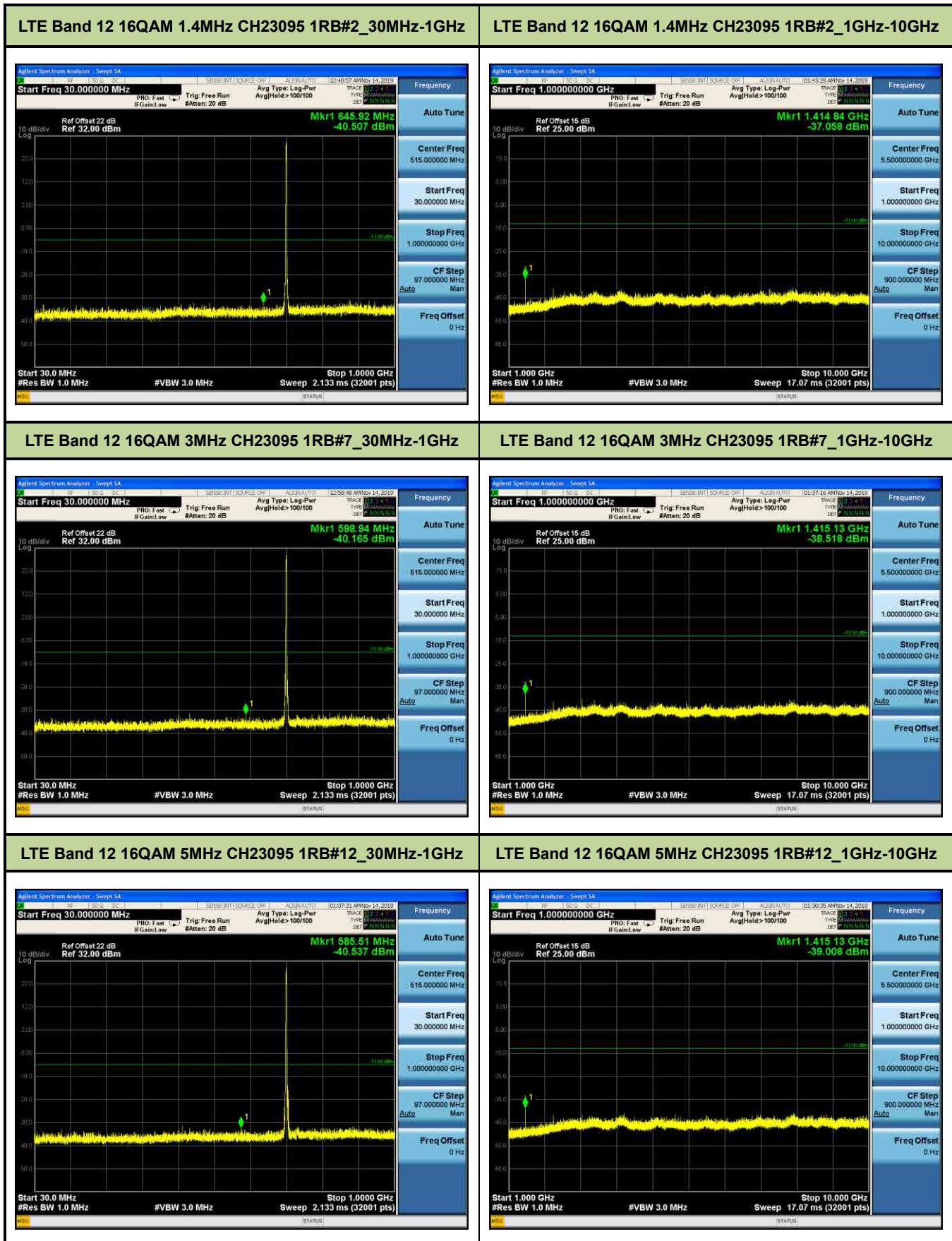


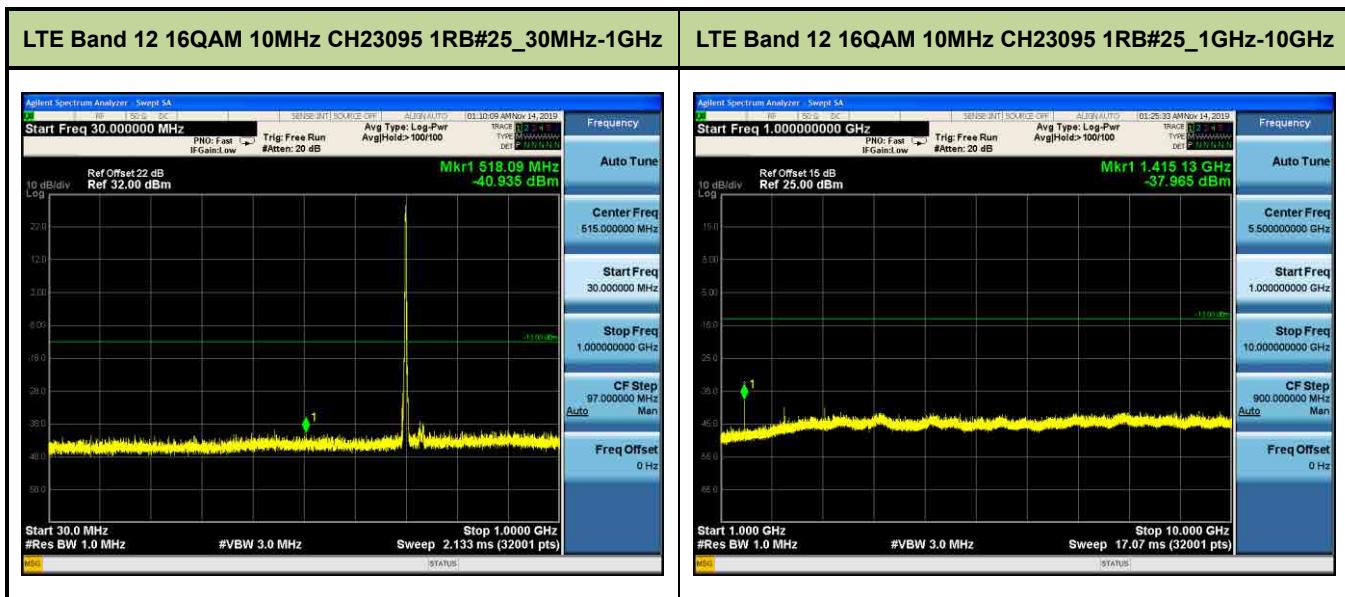


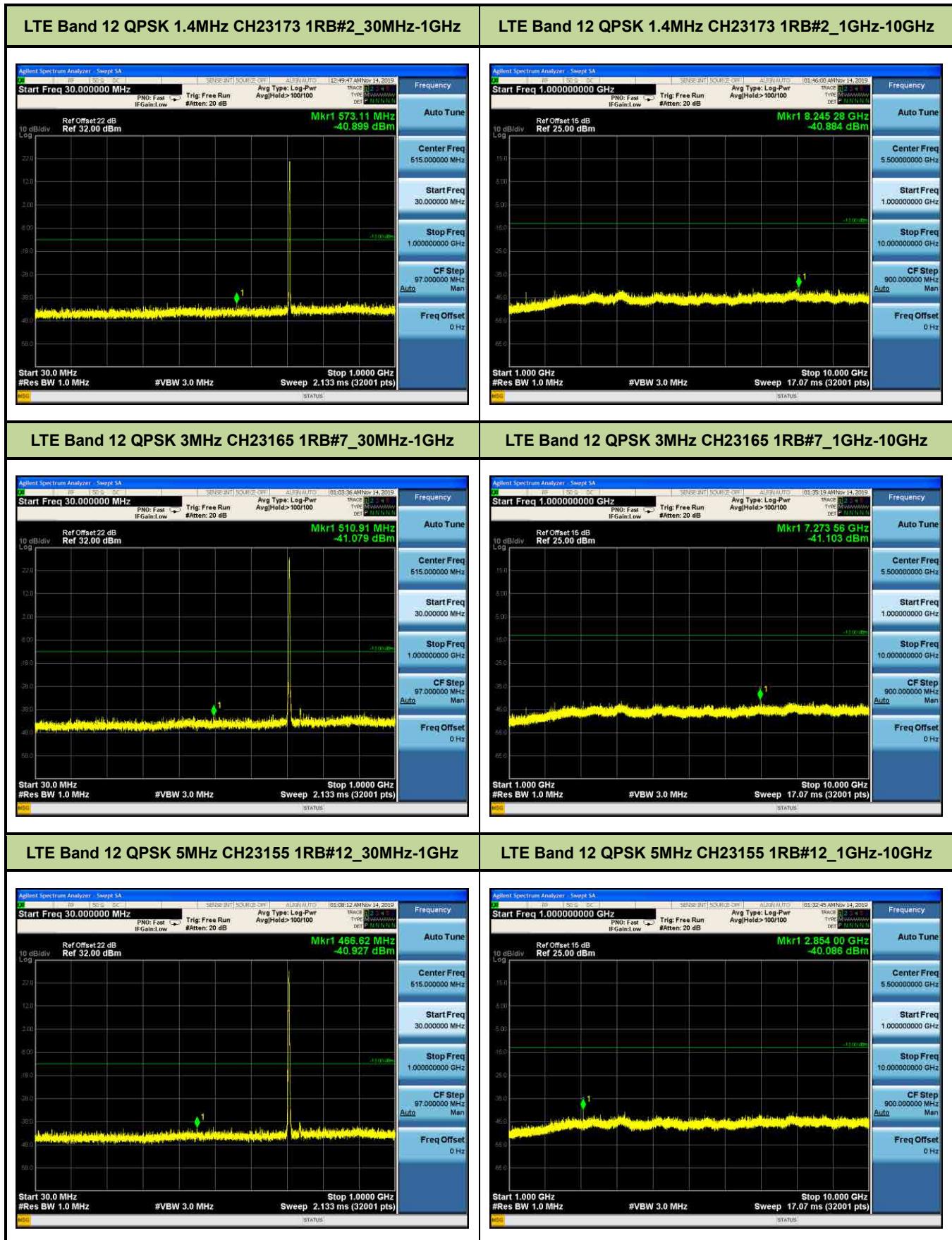


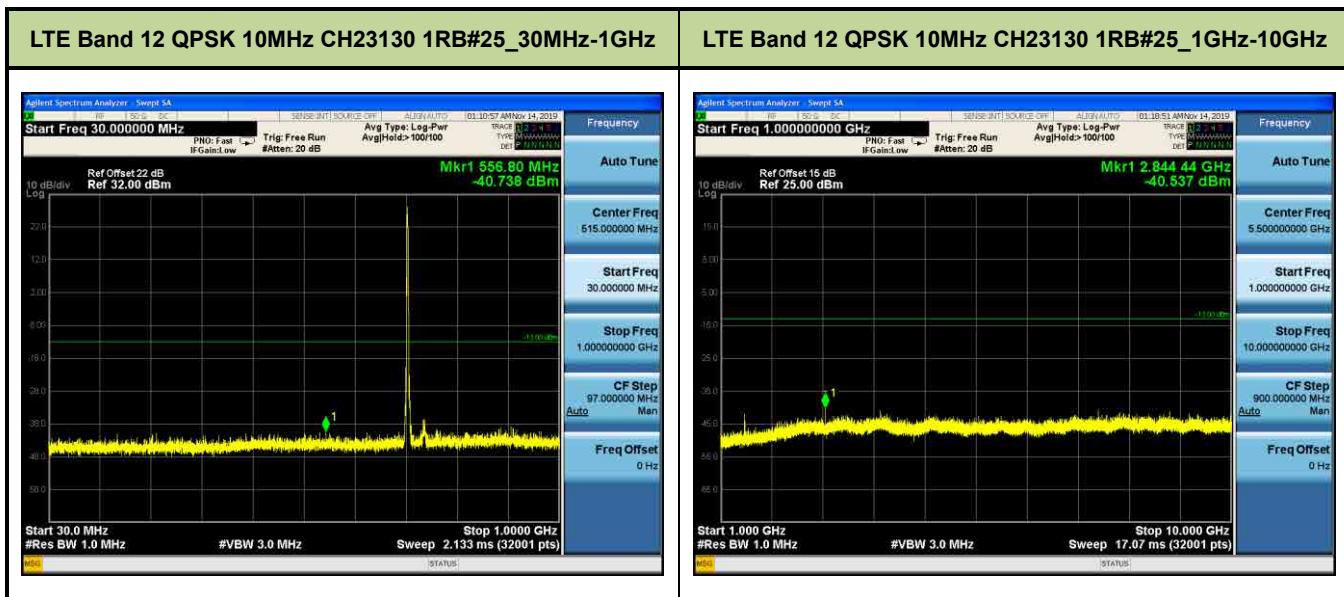
LTE Band 12 QPSK 1.4MHz CH23095 1RB#2_30MHz-1GHz	LTE Band 12 QPSK 1.4MHz CH23095 1RB#2_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 656.41 MHz -40.371 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 656.41 MHz -40.371 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB Ref 25.00 dBm Mkr1 1.415 13 GHz -38.629 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 -65.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 1.415 13 GHz -38.629 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>
LTE Band 12 QPSK 3MHz CH23095 1RB#7_30MHz-1GHz	LTE Band 12 QPSK 3MHz CH23095 1RB#7_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 487.60 MHz -40.605 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 487.60 MHz -40.605 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 15 dB Ref 25.00 dBm Mkr1 1.415 13 GHz -38.213 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 1.415 13 GHz -38.213 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>
LTE Band 12 QPSK 5MHz CH23095 1RB#12_30MHz-1GHz	LTE Band 12 QPSK 5MHz CH23095 1RB#12_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 678.51 MHz -40.485 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 678.51 MHz -40.485 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100 Ref Offset 16 dB Ref 25.00 dBm Mkr1 1.415 13 GHz -38.257 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 1.415 13 GHz -38.257 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>



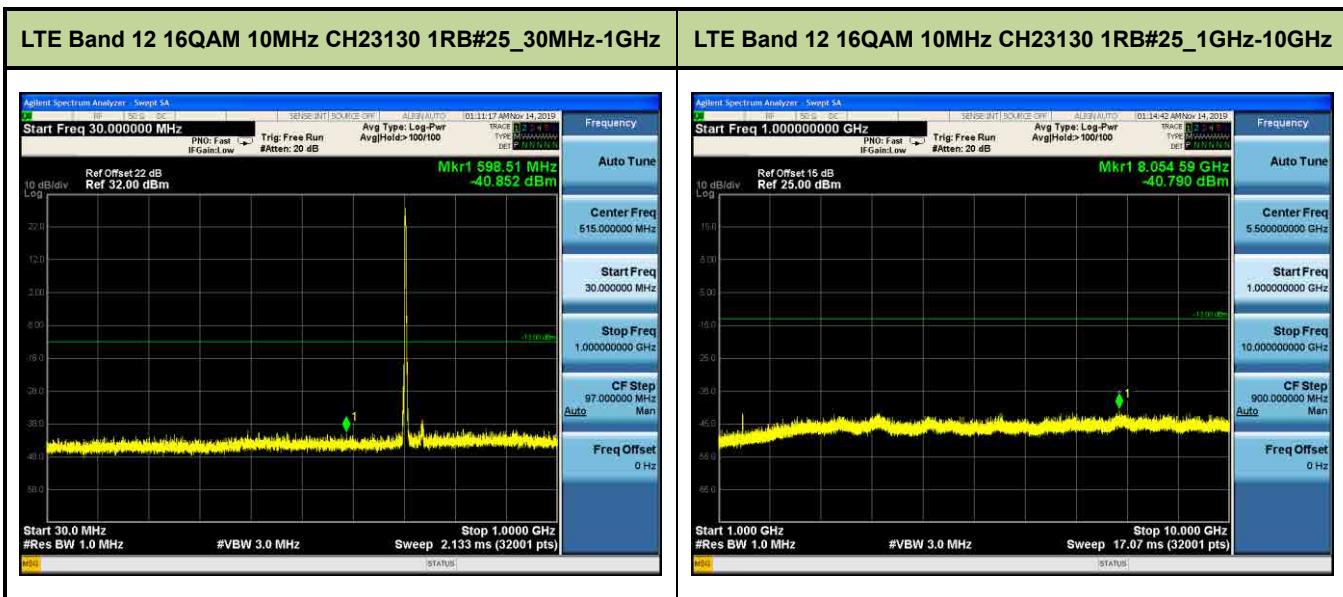








LTE Band 12 16QAM 1.4MHz CH23173 1RB#2_30MHz-1GHz	LTE Band 12 16QAM 1.4MHz CH23173 1RB#2_1GHz-10GHz
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 567.41 MHz -40.150 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 567.41 MHz -40.150 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 15 dB Ref 25.00 dBm Mkr1 4.819 94 GHz -40.889 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 4.819 94 GHz -40.889 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 589.36 MHz -41.206 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 589.36 MHz -41.206 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 15 dB Ref 25.00 dBm Mkr1 8.105 78 GHz -40.491 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 8.105 78 GHz -40.491 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>
<p>Agilent Spectrum Analyzer - Swept SA Start Freq 30.000000 MHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 22 dB Ref 32.00 dBm Mkr1 610.55 MHz -41.070 dBm 10 dB/div Log 22.0 12.0 2.0 -8.0 -18.0 -28.0 -38.0 -48.0 -58.0 Start 30.0 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.133 ms (32001 pts) Mkr1 610.55 MHz -41.070 dBm Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Man Freq Offset 0 Hz</p>	<p>Agilent Spectrum Analyzer - Swept SA Start Freq 1.0000000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg Hold: 100/100 Ref Offset 15 dB Ref 25.00 dBm Mkr1 2.854 28 GHz -40.506 dBm 10 dB/div Log 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 17.07 ms (32001 pts) Mkr1 2.854 28 GHz -40.506 dBm Auto Tune Center Freq 5.5000000000 GHz Start Freq 1.0000000000 GHz Stop Freq 10.0000000000 GHz CF Step 900.000000 MHz Man Freq Offset 0 Hz</p>



7.4. Band Edge at Antenna Terminal

7.4.1. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB for Band 2,4,5,12,13,17/ the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz for Band7.

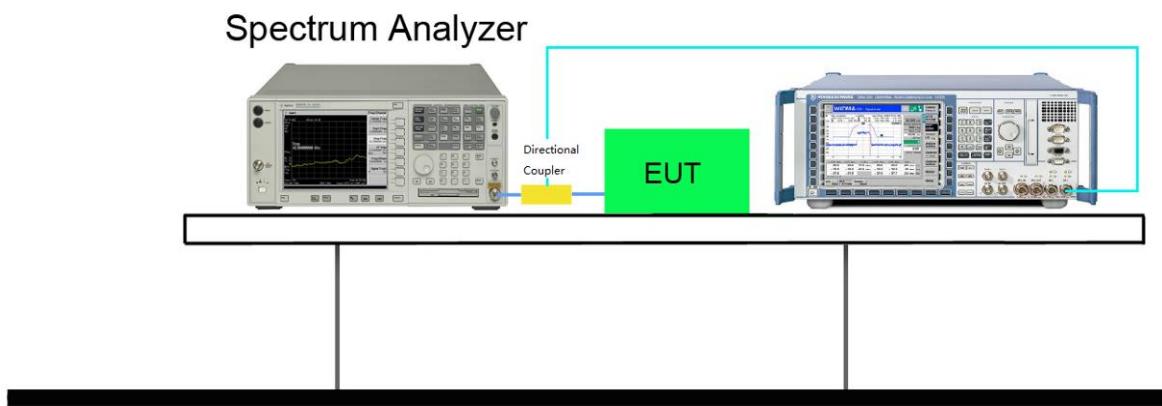
7.4.2. Test Procedure Used

KDB 971168 D01v03r01 – Section 6.0 & ANSI/TIA-603-E-2016

7.4.3. Test Setting

In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

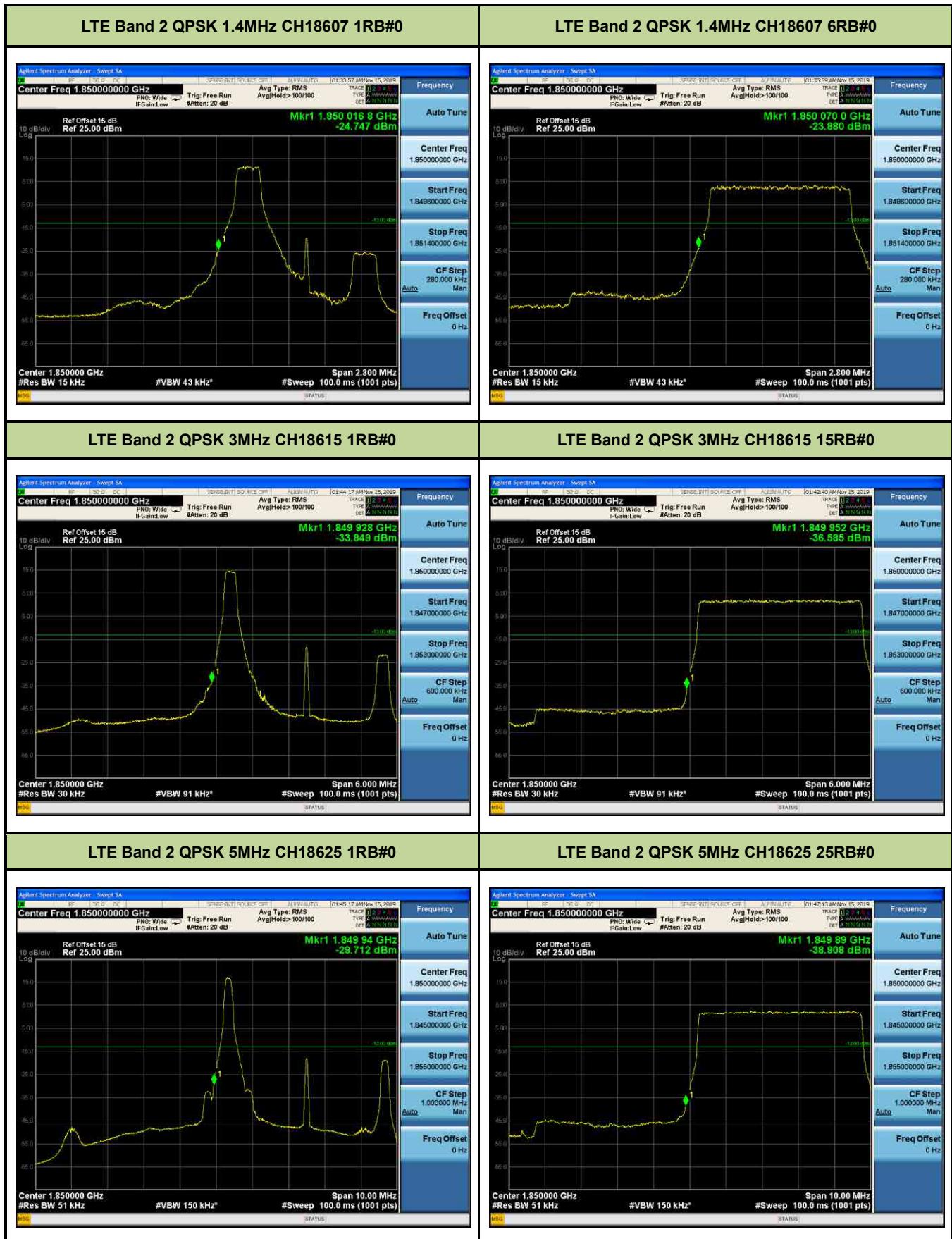
7.4.4. Test Setup

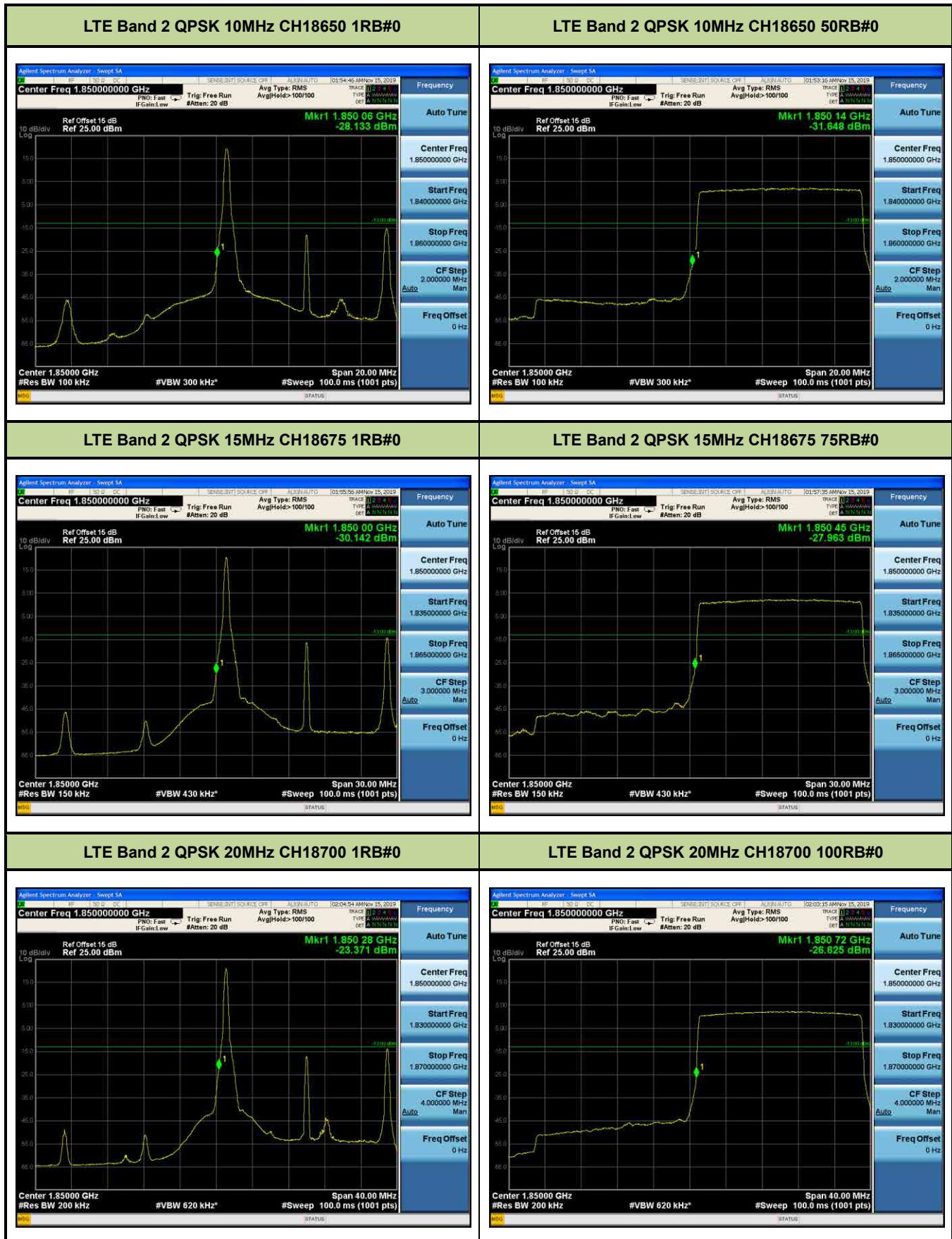


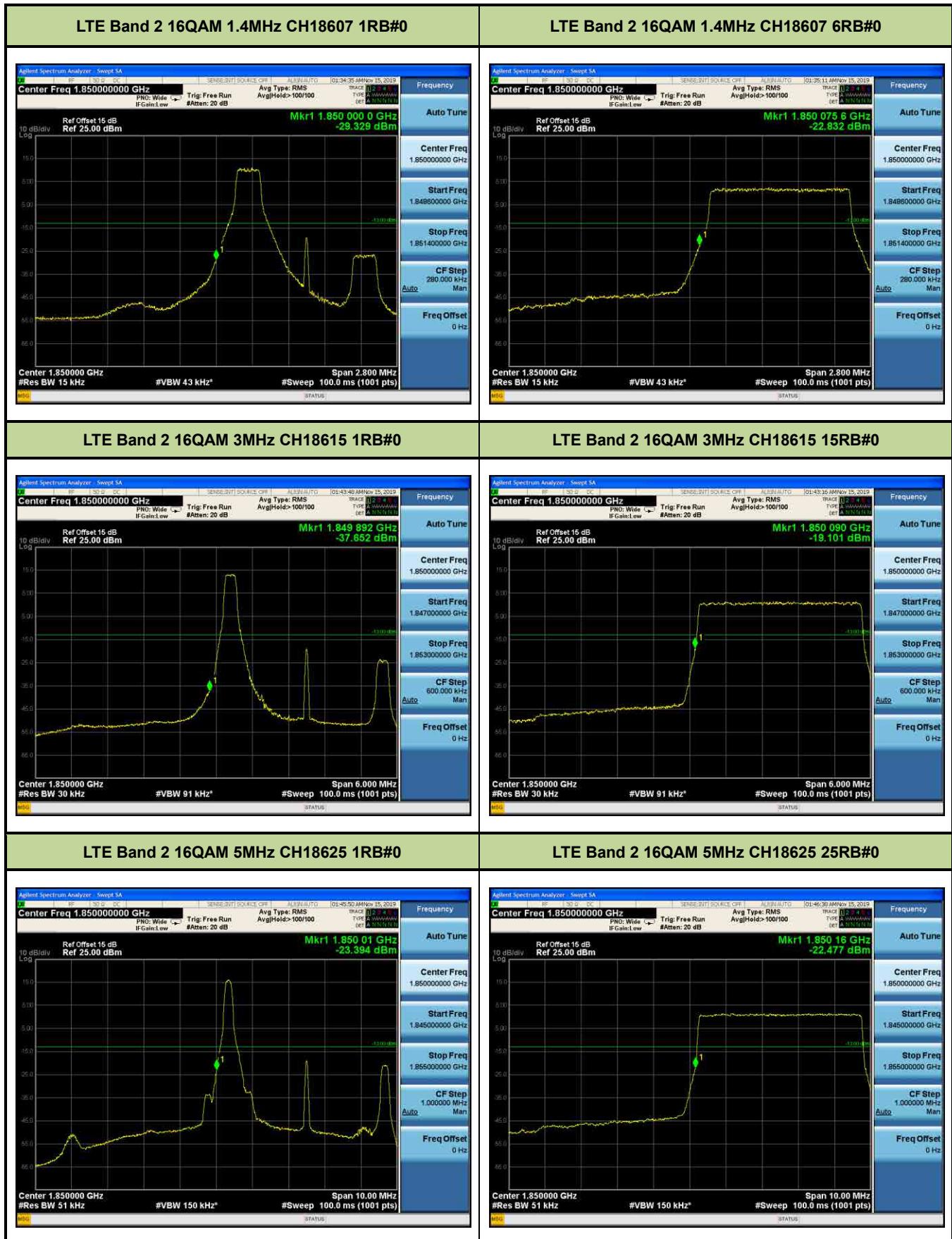
7.4.5. Test Result

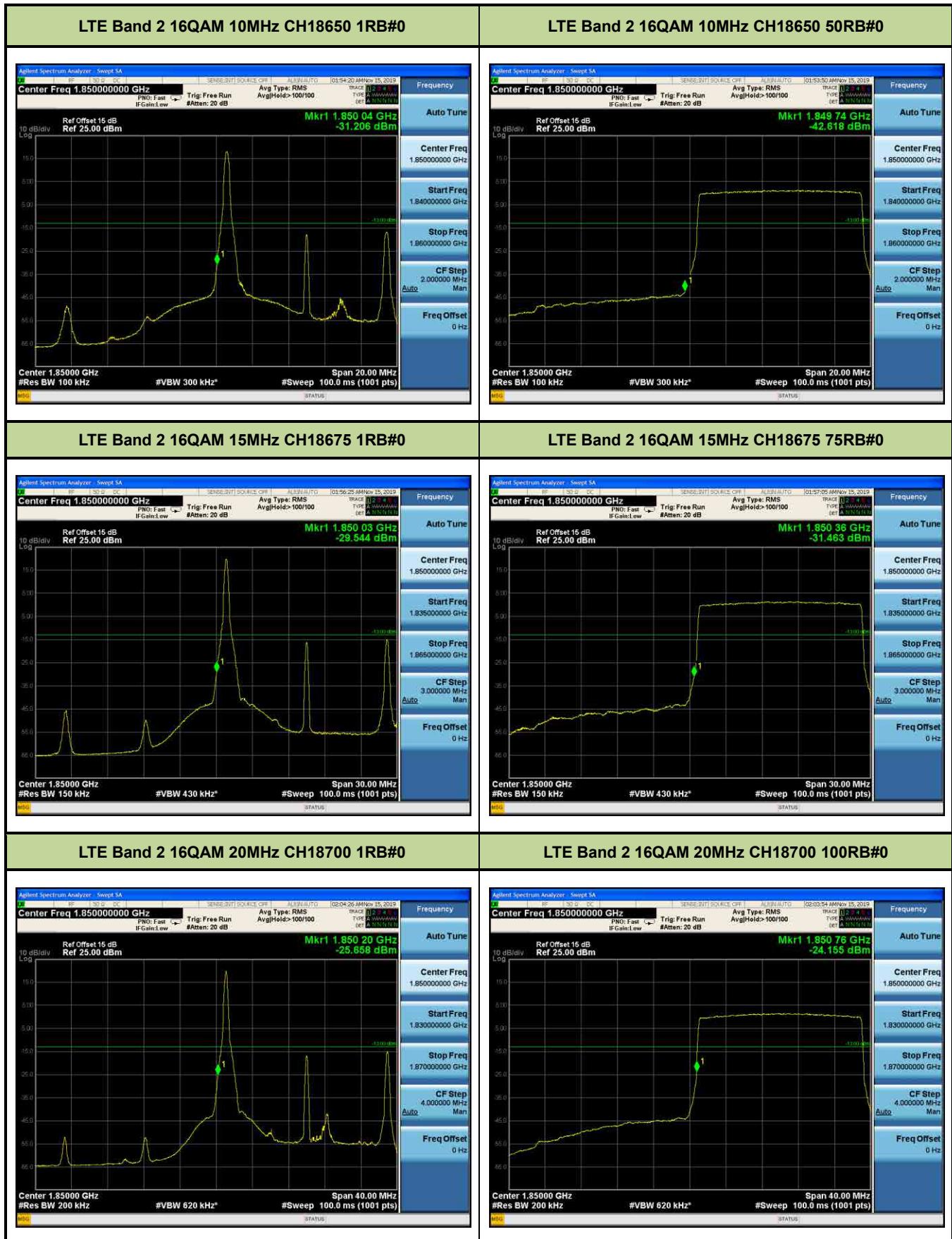
Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 2 (Low Channel)	QPSK	CH18607 / 1850.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH18615 / 1851.5MHz	3	1	0	Pass
				15	0	Pass
		CH18625 / 1852.5MHz	5	1	0	Pass
				25	0	Pass
	16QAM	CH18650 / 1855MHz	10	1	0	Pass
				50	0	Pass
		CH18675 / 1857.5MHz	15	1	0	Pass
				75	0	Pass
		CH18700 / 1860MHz	20	1	0	Pass
				100	0	Pass

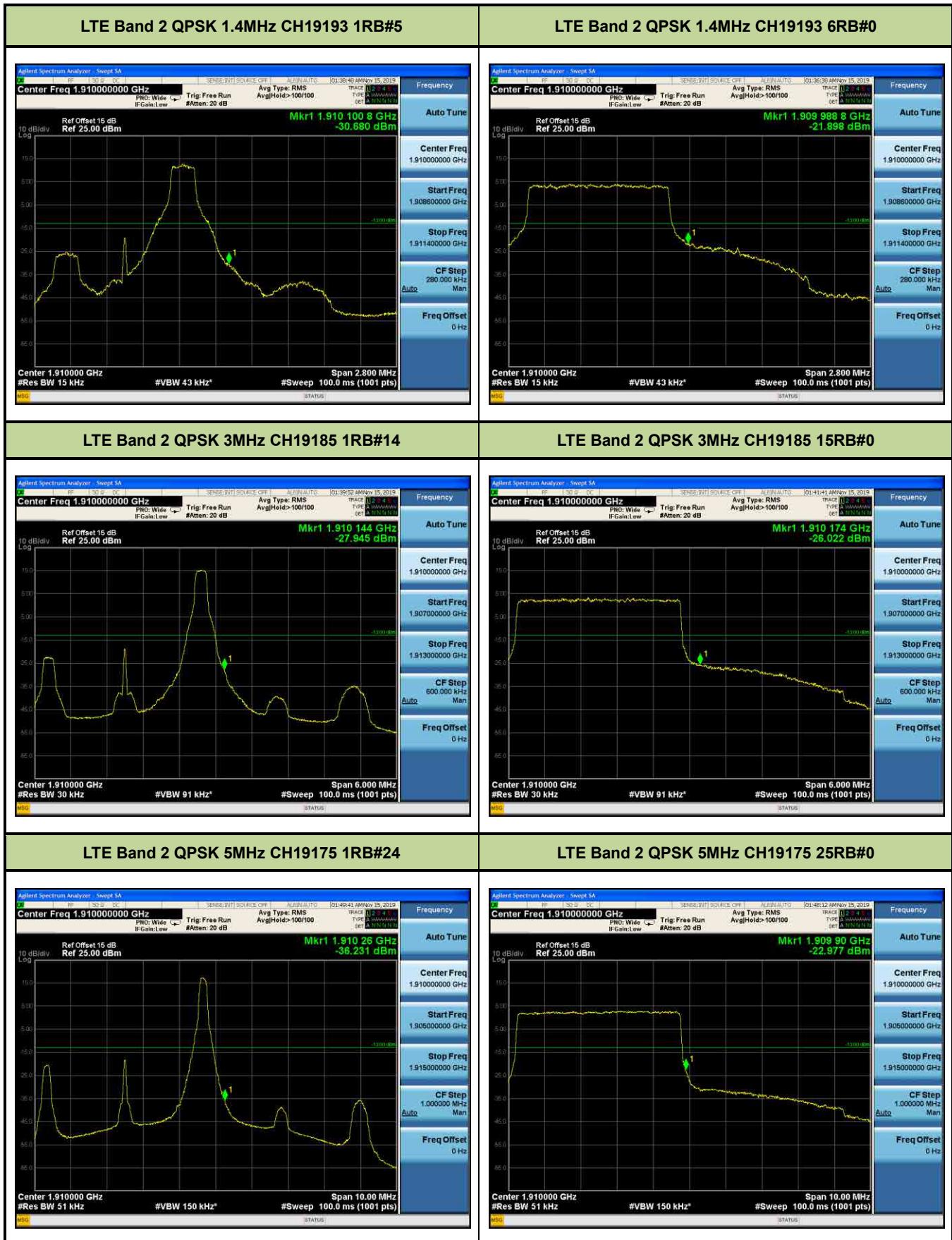
Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 2 (High Channel)	QPSK	CH19193 / 1909.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH19185 / 1908.5MHz	3	1	14	Pass
				15	0	Pass
		CH19175 / 1907.5MHz	5	1	24	Pass
				25	0	Pass
		CH19150 / 1905MHz	10	1	49	Pass
	16QAM			50	0	Pass
		CH19125 / 1902.5MHz	15	1	74	Pass
				75	0	Pass
		CH19100 / 1900MHz	20	1	99	Pass
				100	0	Pass
		CH19193 / 1909.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH19185 / 1908.5MHz	3	1	14	Pass
				15	0	Pass
		CH19175 / 1907.5MHz	5	1	24	Pass
				25	0	Pass
		CH19150 / 1905MHz	10	1	49	Pass
				50	0	Pass
		CH19125 / 1902.5MHz	15	1	74	Pass
				75	0	Pass
		CH19100 / 1900MHz	20	1	99	Pass
				100	0	Pass

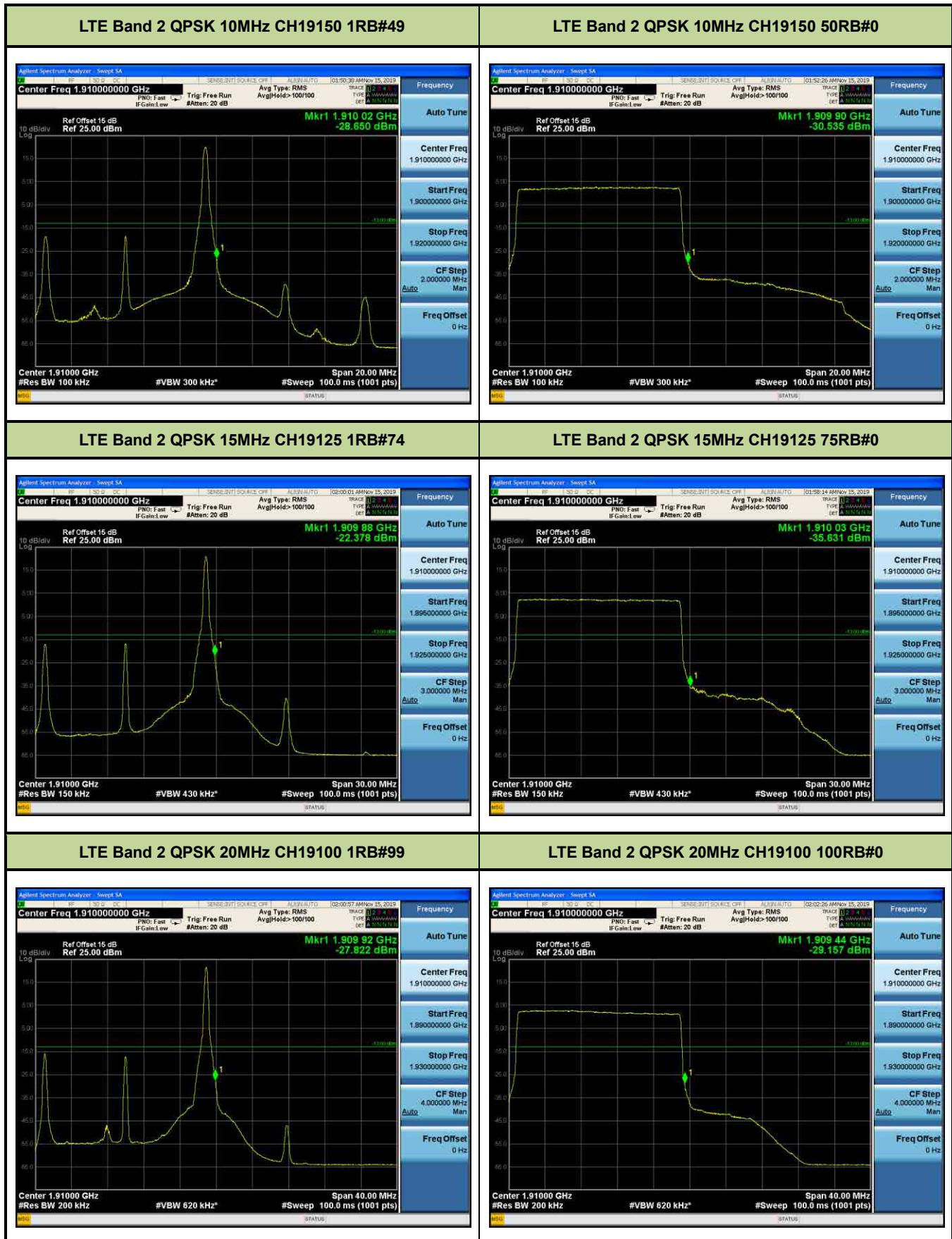




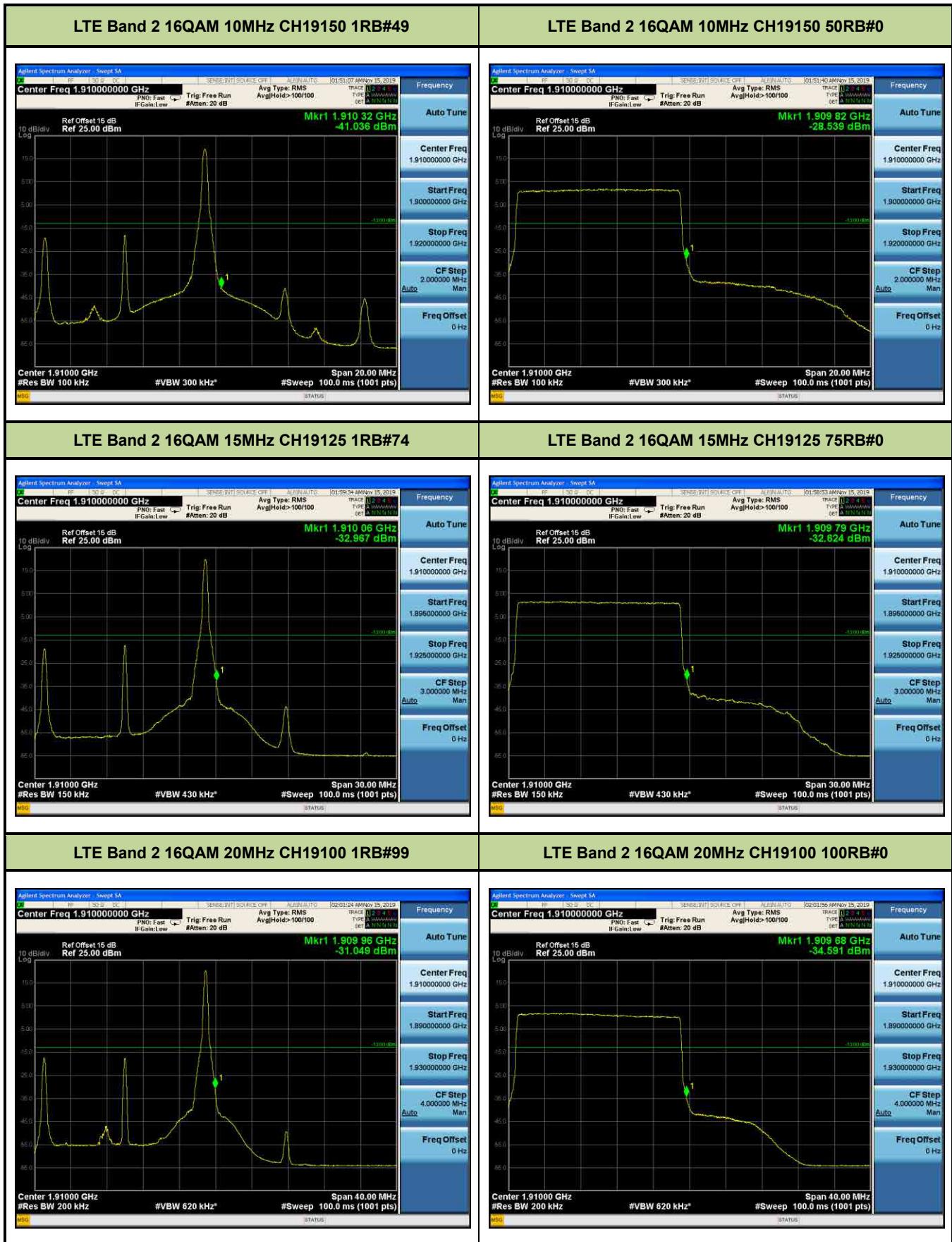












Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 4 (Low Channel)	QPSK	CH19957 / 1710.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH19965 / 1711.5MHz	3	1	0	Pass
				15	0	Pass
		CH19975 / 1712.5MHz	5	1	0	Pass
				25	0	Pass
		CH20000 / 1715MHz	10	1	0	Pass
	16QAM			50	0	Pass
		CH20025 / 1717.5MHz	15	1	0	Pass
				75	0	Pass
		CH20050 / 1720MHz	20	1	0	Pass
				100	0	Pass
		CH19957 / 1710.7MHz	1.4	1	0	Pass
				6	0	Pass
		CH19965 / 1711.5MHz	3	1	0	Pass
				15	0	Pass
		CH19975 / 1712.5MHz	5	1	0	Pass
				25	0	Pass
		CH20000 / 1715MHz	10	1	0	Pass
				50	0	Pass
		CH20025 / 1717.5MHz	15	1	0	Pass
				75	0	Pass
		CH20050 / 1720MHz	20	1	0	Pass
				100	0	Pass

Test Mode	Modulation	Channel / Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 4 (High Channel)	QPSK	CH20393 / 1754.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH20385 / 1753.5MHz	3	1	14	Pass
				15	0	Pass
		CH20375 / 1752.5MHz	5	1	24	Pass
				25	0	Pass
		CH20350 / 1750MHz	10	1	49	Pass
	16QAM			50	0	Pass
		CH20325 / 1747.5MHz	15	1	74	Pass
				75	0	Pass
		CH20300 / 1745MHz	20	1	99	Pass
				100	0	Pass
		CH20393 / 1754.3MHz	1.4	1	5	Pass
				6	0	Pass
		CH20385 / 1753.5MHz	3	1	14	Pass
				15	0	Pass
		CH20375 / 1752.5MHz	5	1	24	Pass
				25	0	Pass
		CH20350 / 1750MHz	10	1	49	Pass
				50	0	Pass
		CH20325 / 1747.5MHz	15	1	74	Pass
				75	0	Pass
		CH20300 / 1745MHz	20	1	99	Pass
				100	0	Pass