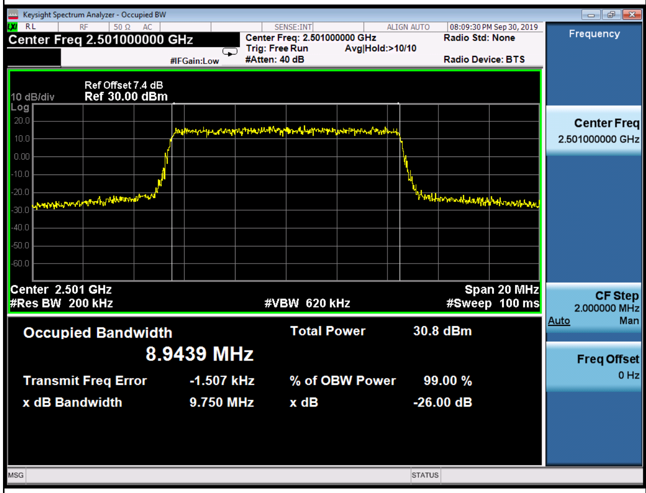
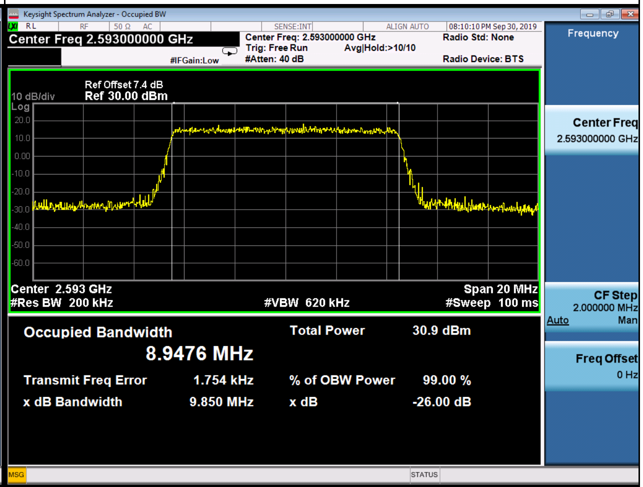
Spectrum Plot

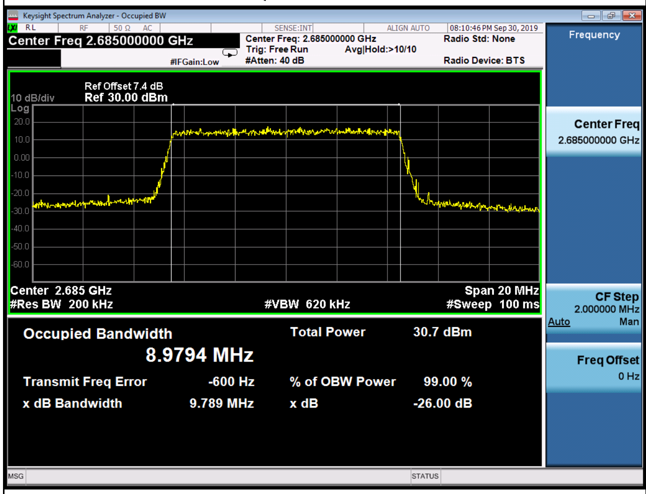
QPSK-39700



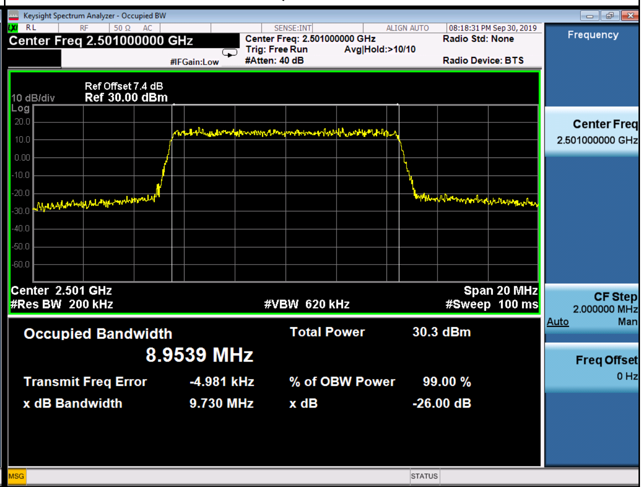
QPSK-40620



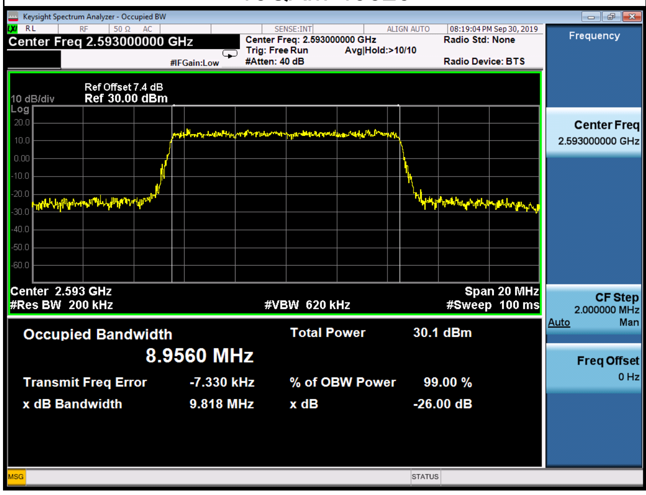
QPSK-41540



16QAM-39700



16QAM-40620



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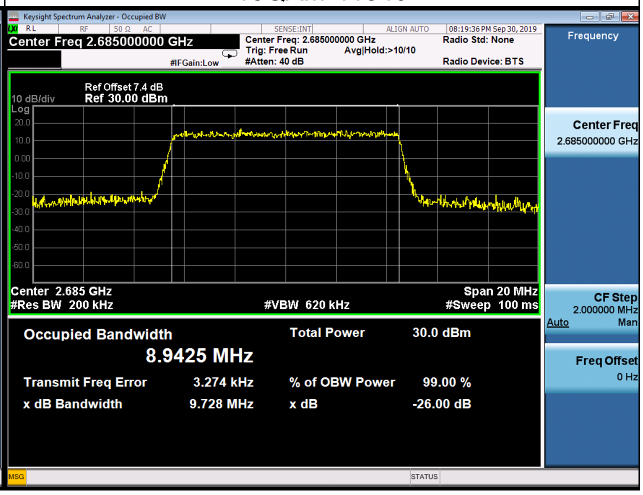

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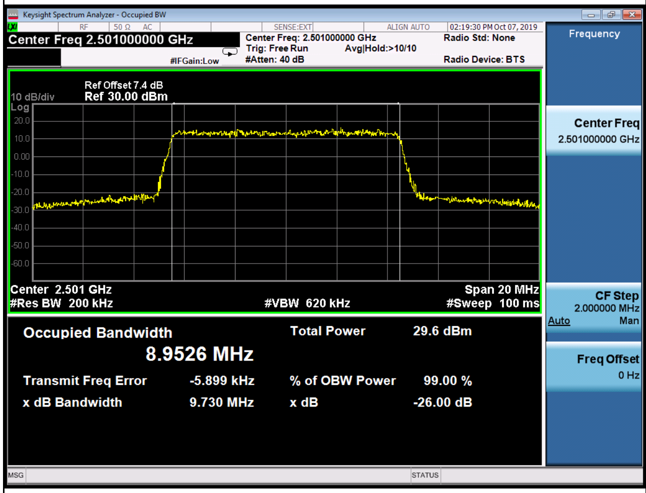
<tr><td>
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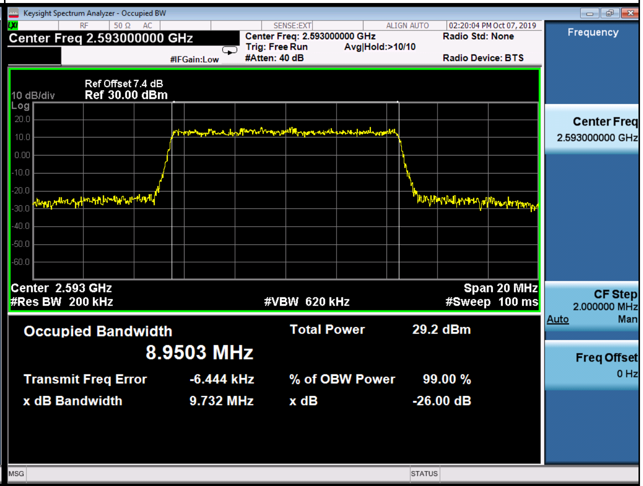
<td>
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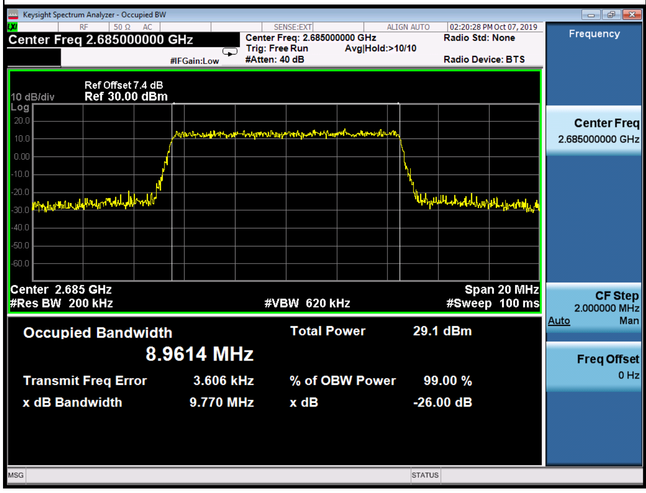
<tr><td>
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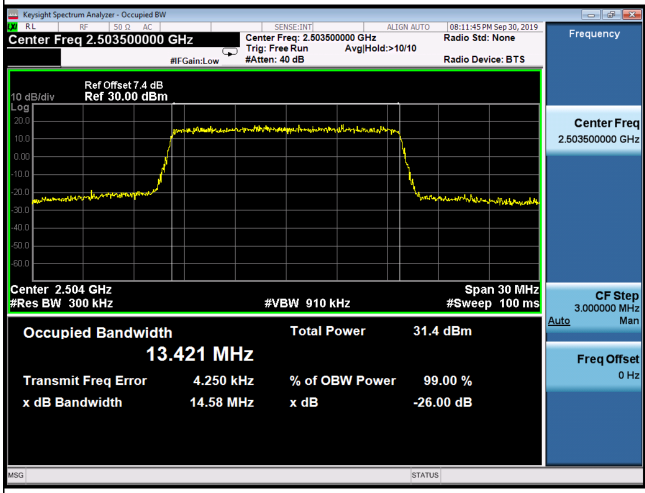
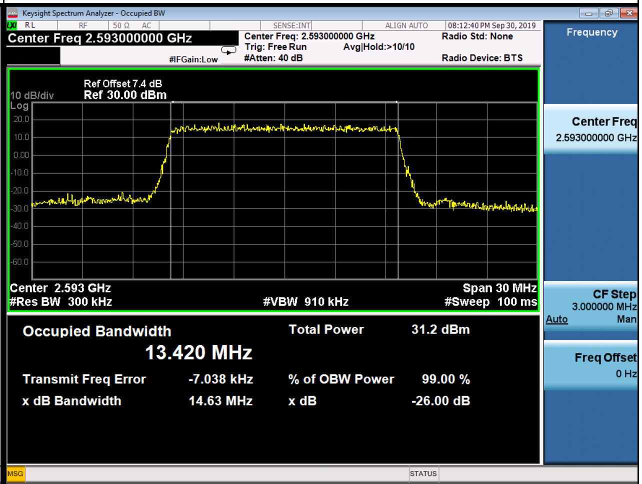
LTE Band 41_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39725	2503.5	13.421	39725	2503.5	14.580
40620	2593	13.420	40620	2593	14.630
41515	2682.5	13.412	41515	2682.5	14.610
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39725	2503.5	13.437	39725	2503.5	14.670
40620	2593	13.422	40620	2593	14.740
41515	2682.5	13.394	41515	2682.5	14.650
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39725	2503.5	13.414	39725	2503.5	14.520
40620	2593	13.418	40620	2593	14.600
41515	2682.5	13.428	41515	2682.5	14.610

Spectrum Plot	
QPSK-39725	QPSK-40620
	
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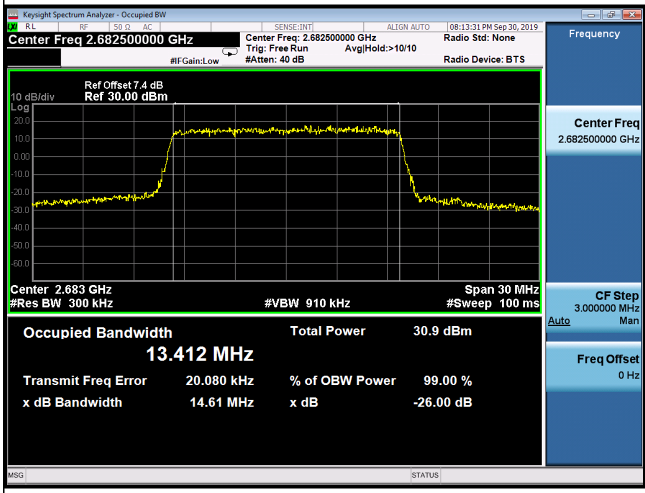
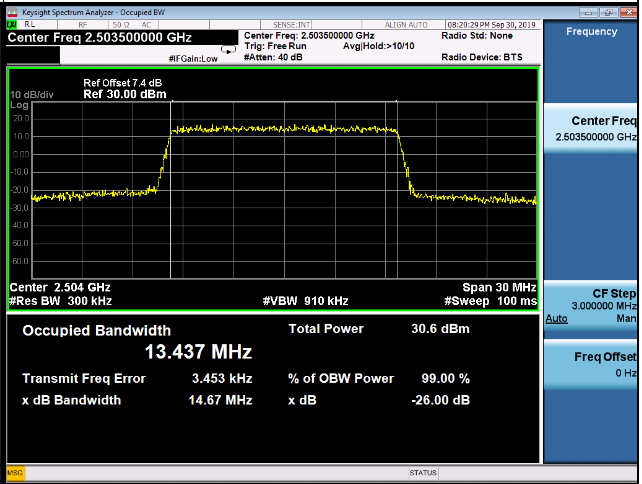
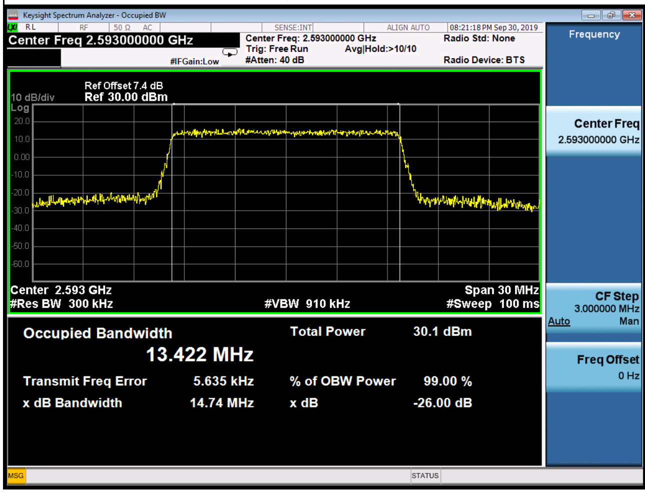
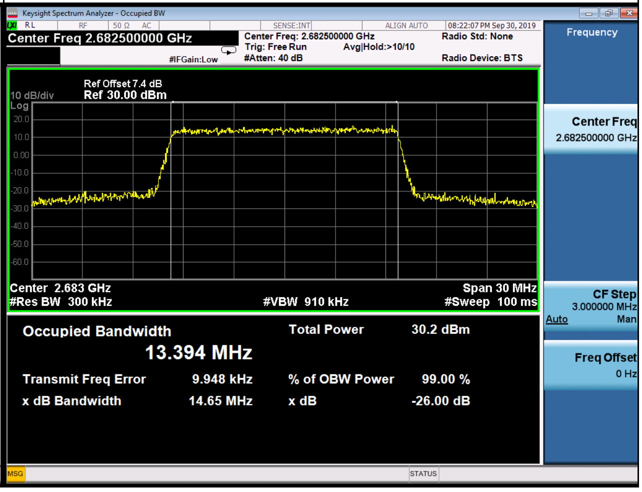
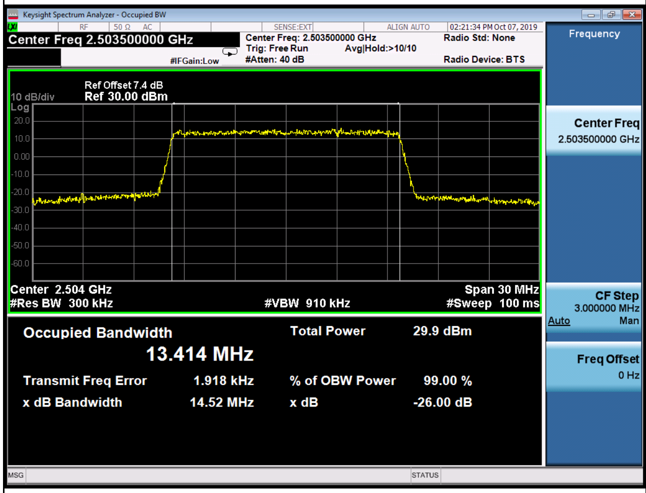
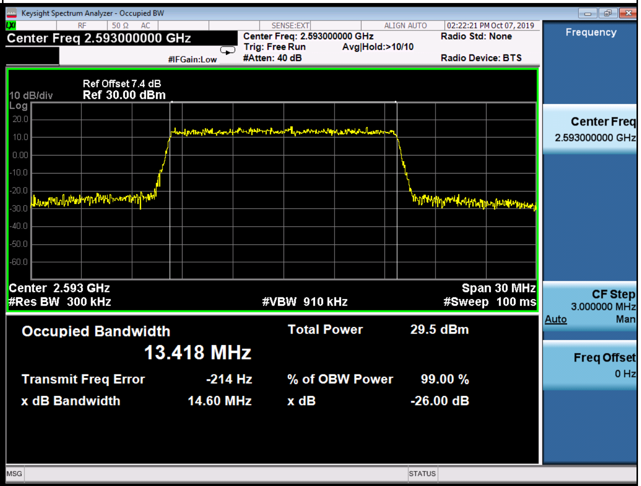
	
16QAM-40620	16QAM-41515
	

Spectrum Plot

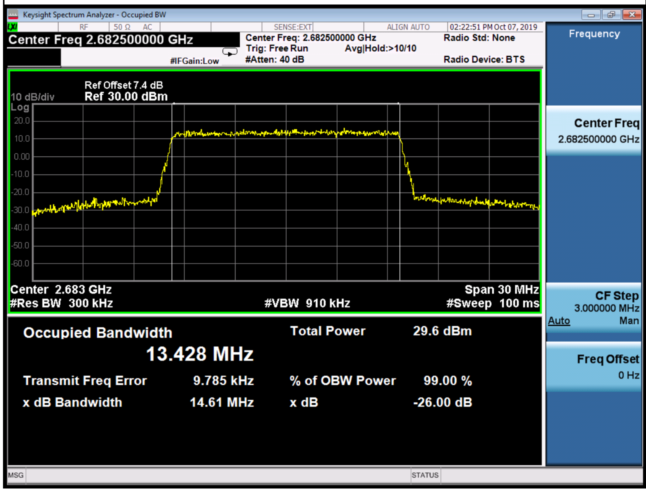
64QAM-39725



64QAM-40620



64QAM-41515



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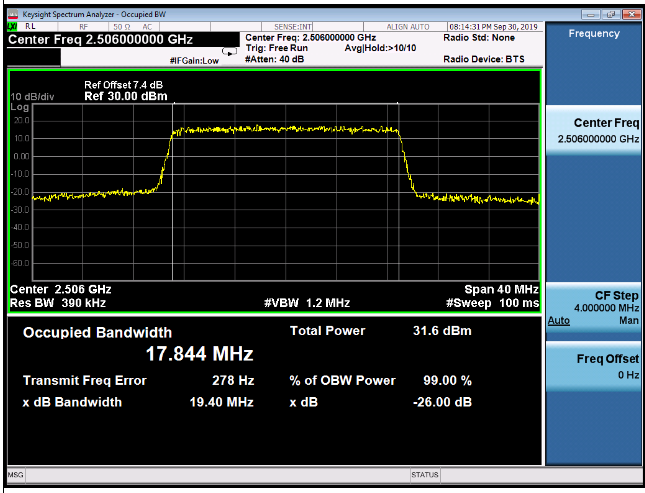
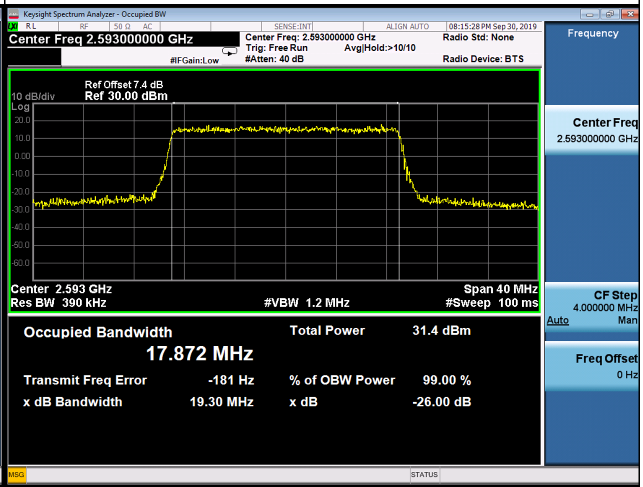
LTE Band 41_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39750	2506	17.844	39750	2506	19.40
40620	2593	17.872	40620	2593	19.30
41490	2680	17.839	41490	2680	19.24
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39750	2506	17.914	39750	2506	19.31
40620	2593	17.894	40620	2593	19.32
41490	2680	17.832	41490	2680	19.23
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
39750	2506	17.848	39750	2506	19.350
40620	2593	17.914	40620	2593	19.250
41490	2680	17.828	41490	2680	19.320

Spectrum Plot

QPSK-39750



QPSK-40620



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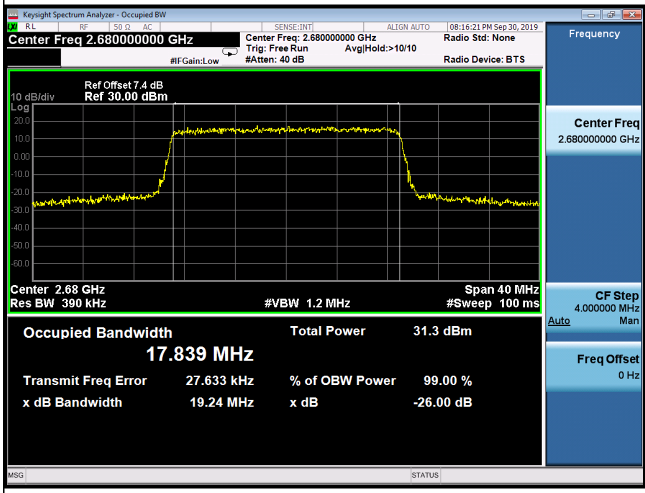

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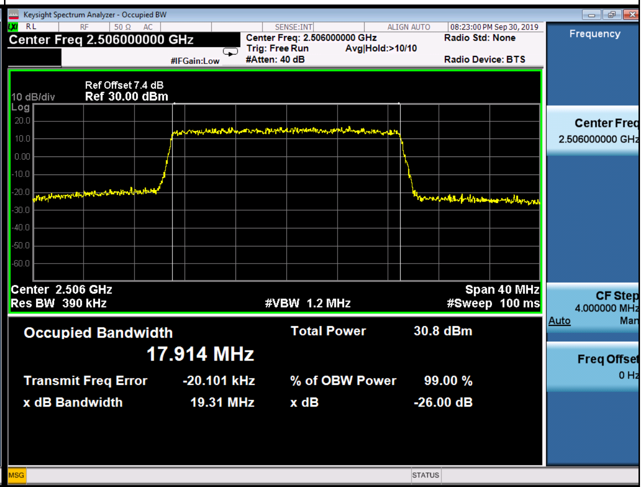

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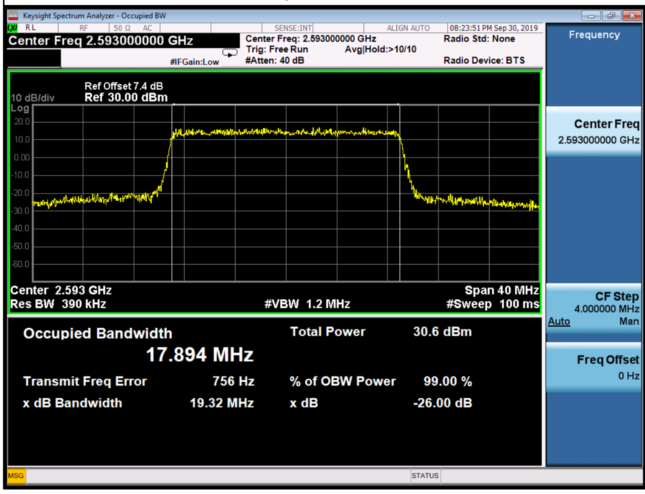
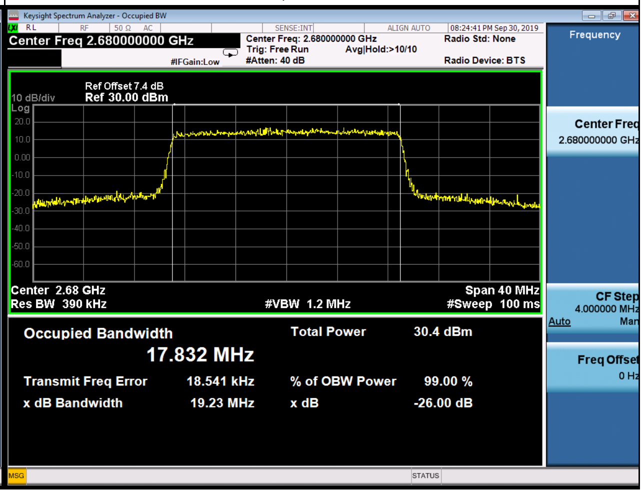


16QAM-41490



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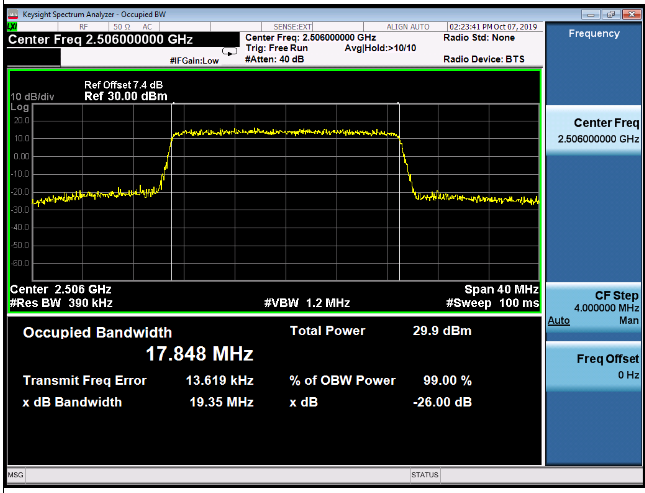
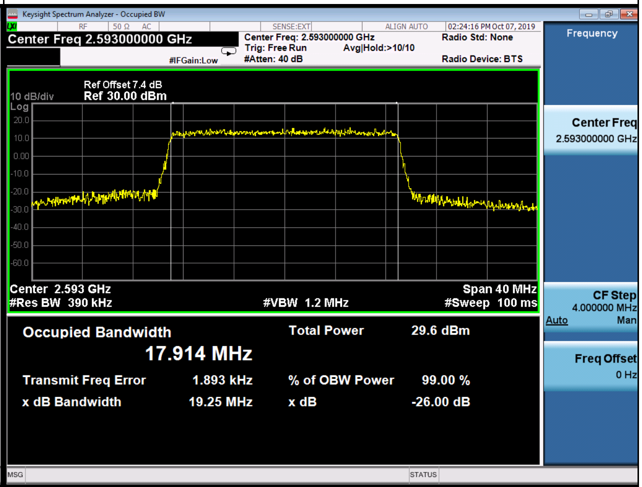
<tr><td>
</td><td>
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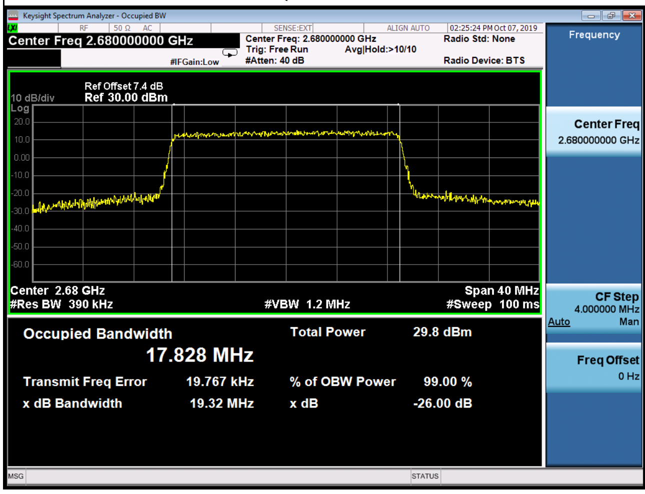
<tr><td>
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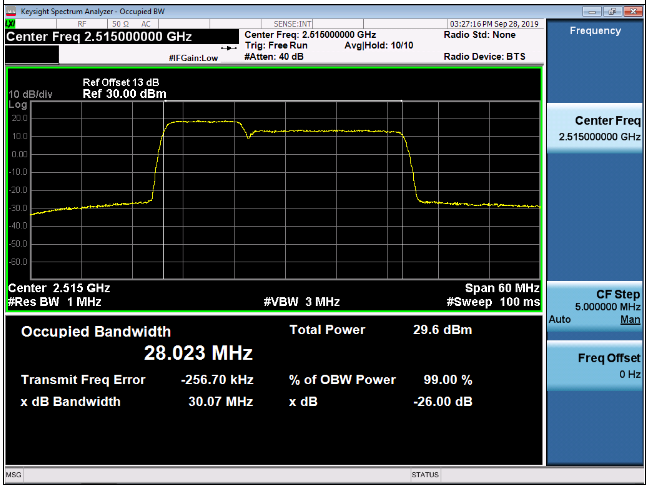
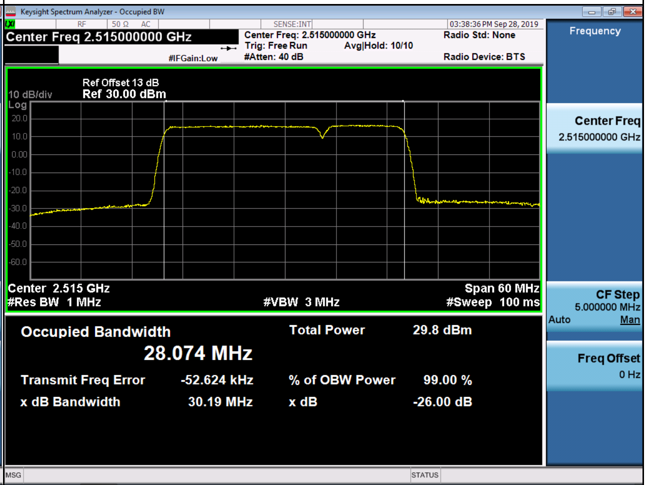
LTE CA_7C / Low Range						
QPSK						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	20805	2505.5	20949	2519.9	28.023	30.070
20+10	20850	2510	20994	2524.4	28.074	30.190
15+10	20825	2507.5	20945	2519.5	23.484	25.530
15+15	20825	2507.5	20975	2522.5	28.611	30.750
15+20	20828	2507.8	20999	2524.9	32.849	35.030
20+15	20850	2510	21021	2527.1	32.888	35.120
20+20	20850	2510	21048	2529.8	37.666	40.050
16QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	20805	2505.5	20949	2519.9	28.051	30.020
20+10	20850	2510	20994	2524.4	28.092	30.160
15+10	20825	2507.5	20945	2519.5	23.535	25.510
15+15	20825	2507.5	20975	2522.5	28.668	30.750
15+20	20828	2507.8	20999	2524.9	32.850	35.040
20+15	20850	2510	21021	2527.1	32.858	35.100
20+20	20850	2510	21048	2529.8	37.697	40.030
64QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	20805	2505.5	20949	2519.9	28.020	29.990
20+10	20850	2510	20994	2524.4	28.058	30.140
15+10	20825	2507.5	20945	2519.5	23.479	25.520
15+15	20825	2507.5	20975	2522.5	28.595	30.720
15+20	20828	2507.8	20999	2524.9	32.823	35.010
20+15	20850	2510	21021	2527.1	32.833	35.120
20+20	20850	2510	21048	2529.8	37.645	39.990

Spectrum Plot

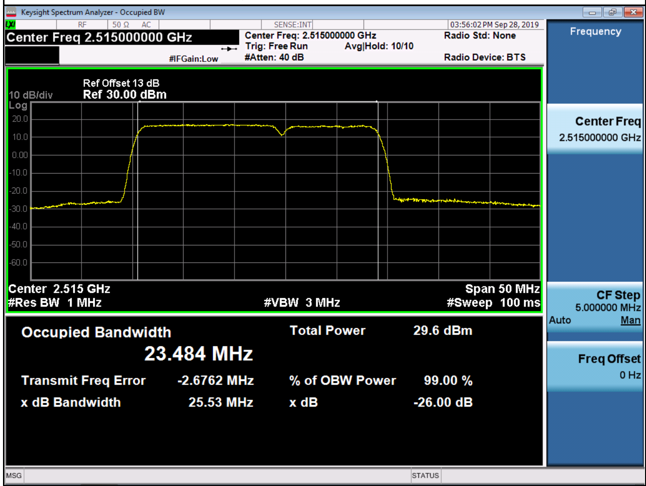
QPSK-10M+20M



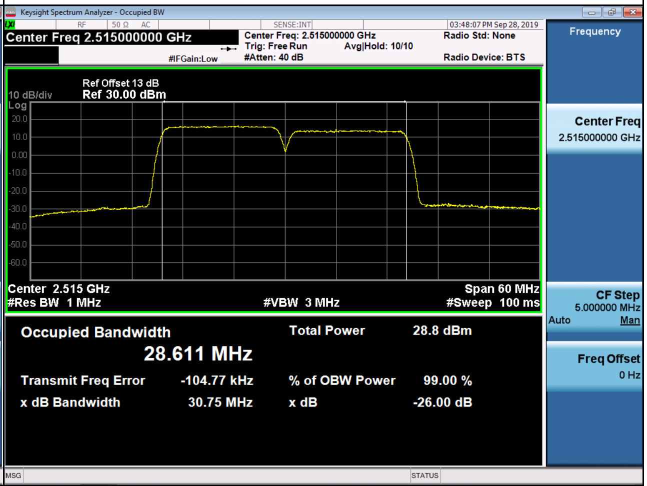
QPSK-20M+10M



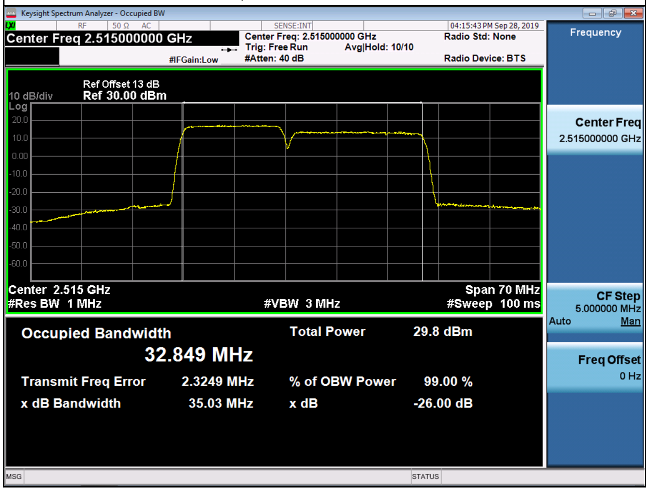
QPSK-15M+10M



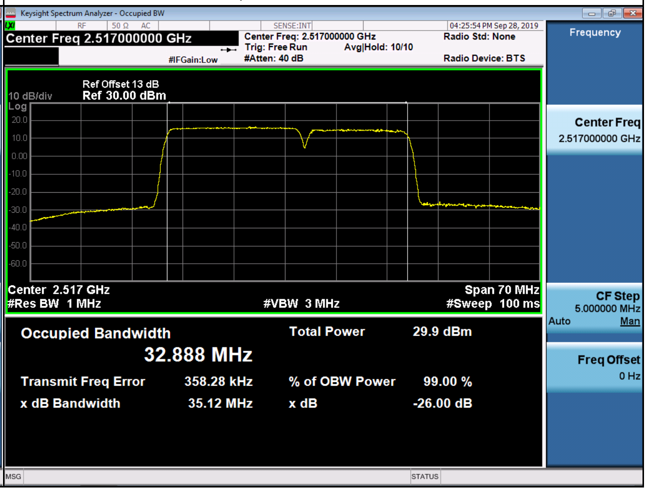
QPSK-15M+15M



QPSK-15M+20M

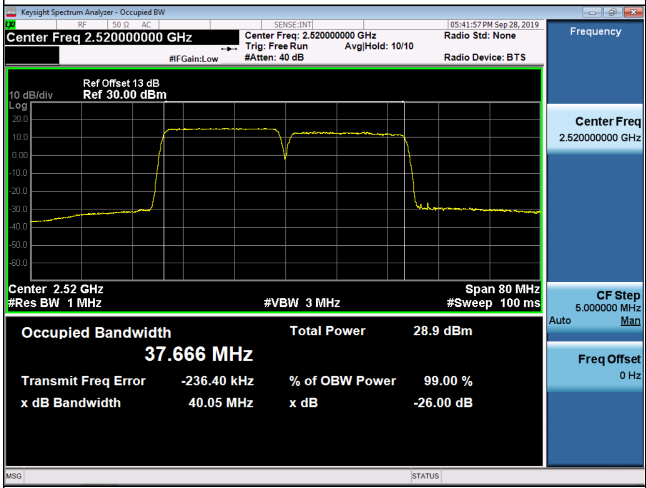


QPSK-20M+15M

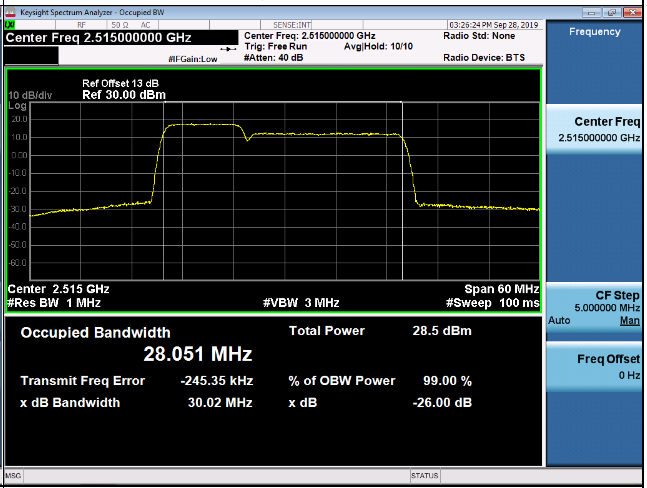


Spectrum Plot

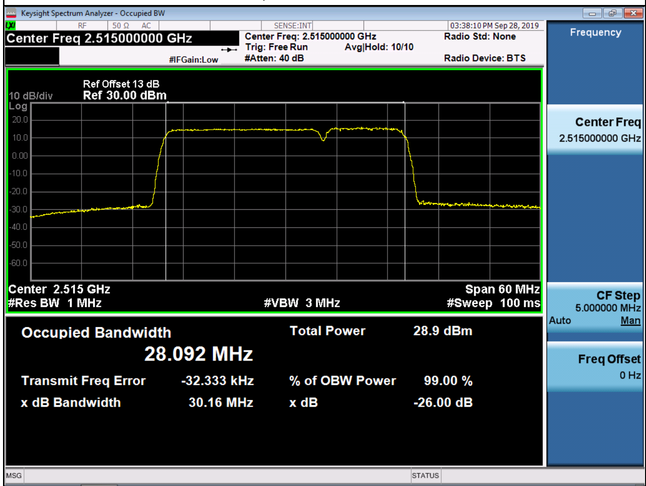
QPSK-20M+20M



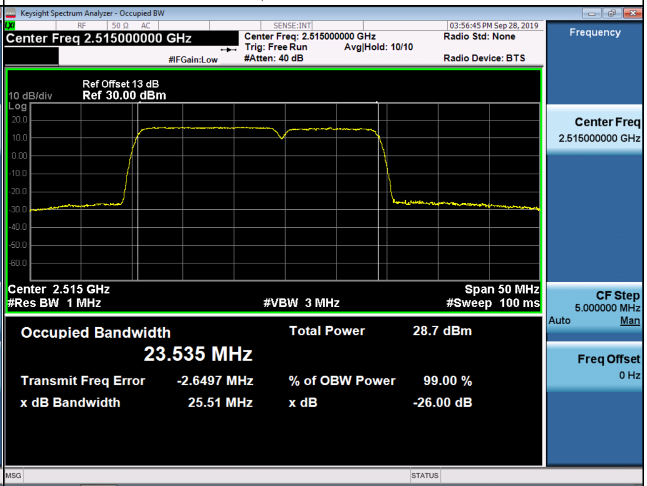
16QAM-10M+20M



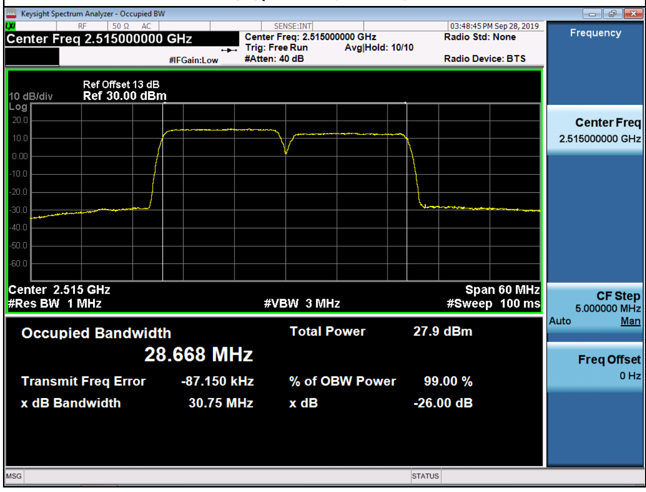
16QAM-20M+10M



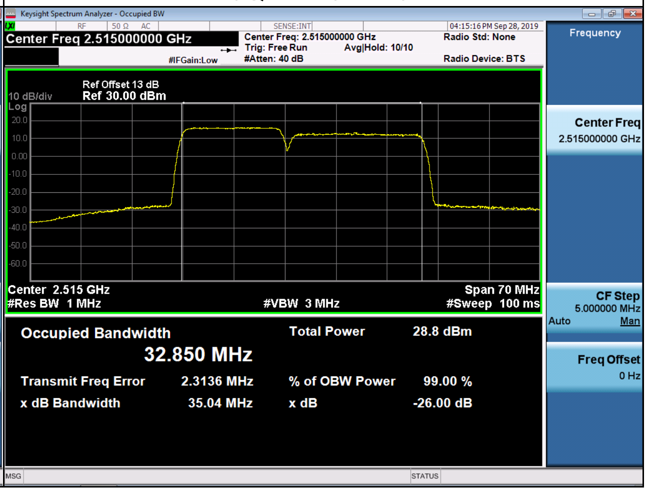
16QAM-15M+10M



16QAM-15M+15M

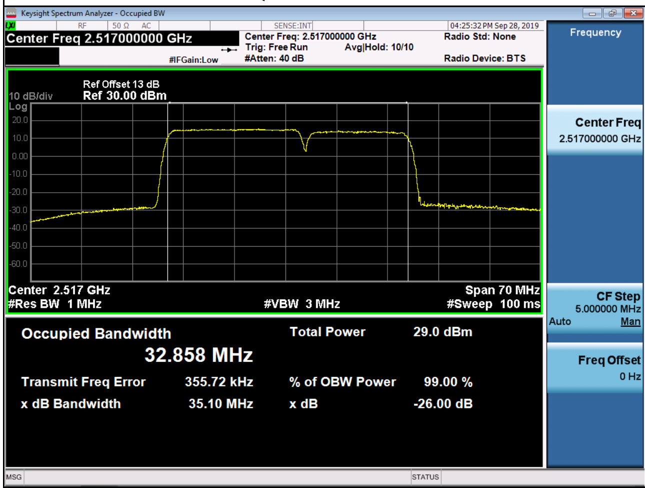


16QAM-15M+20M

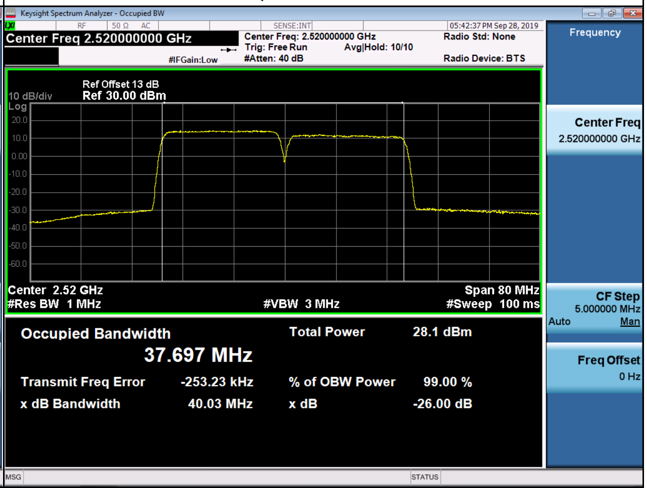


Spectrum Plot

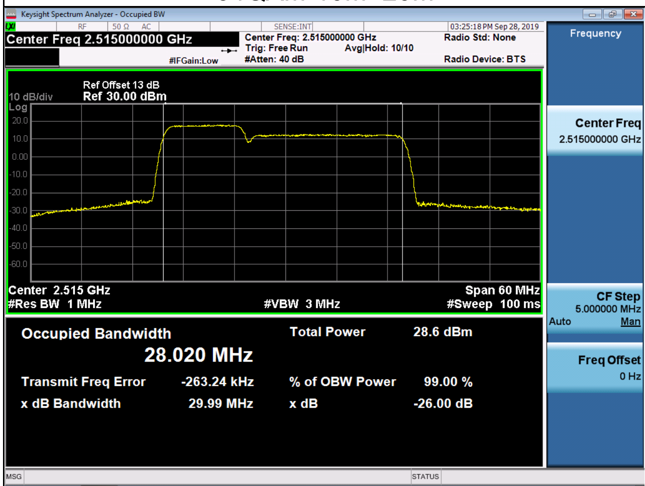
16QAM-20M+15M



16QAM-20M+20M



64QAM-10M+20M



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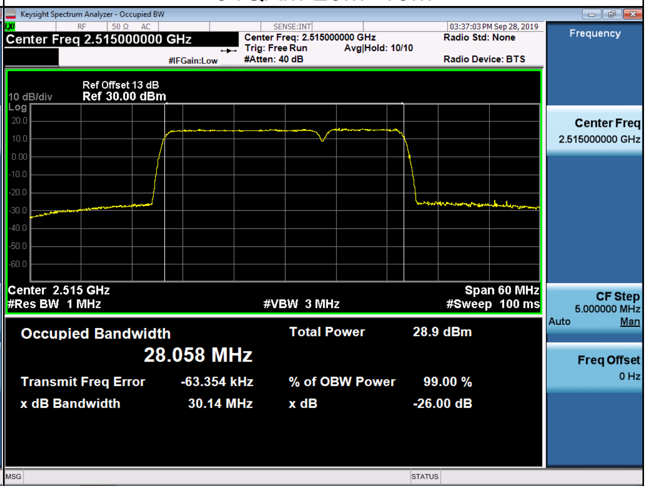
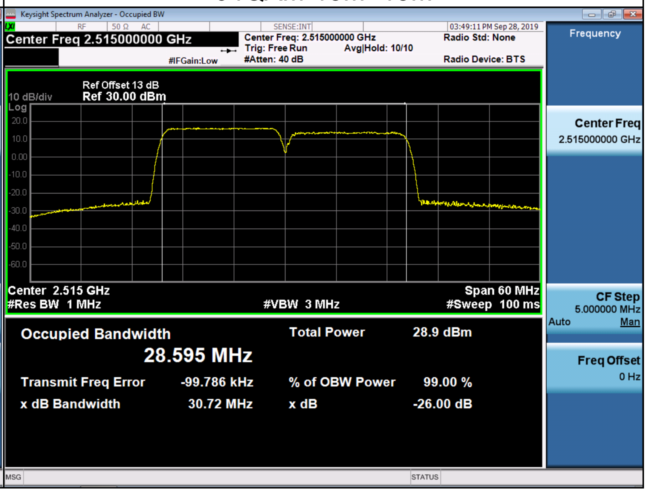
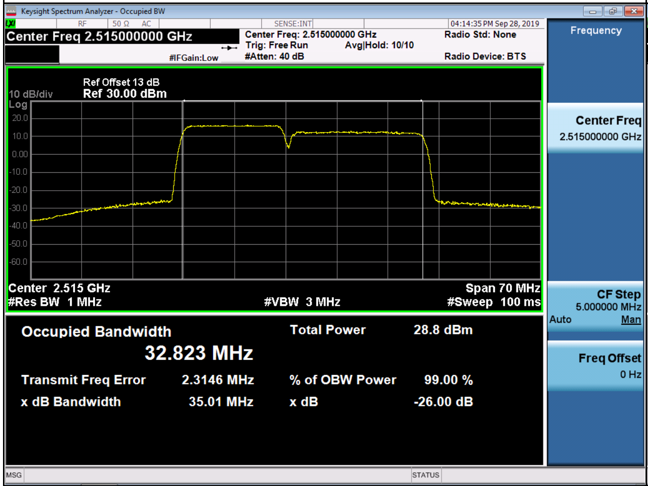
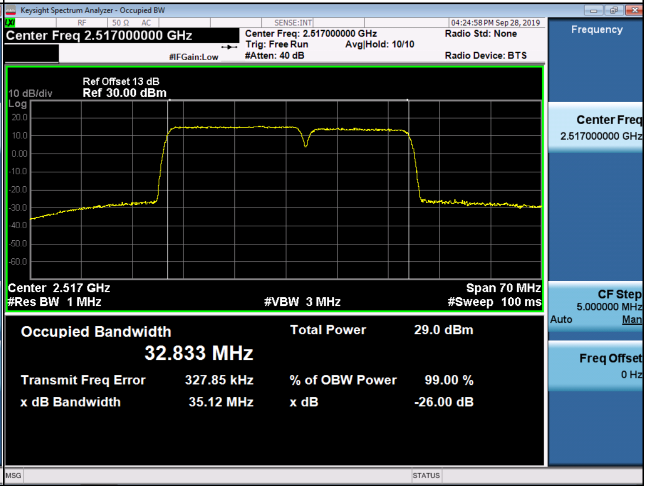


64QAM-15M+10M

64QAM-15M+15M



Spectrum Plot	
64QAM-15M+20M	64QAM-20M+15M
	
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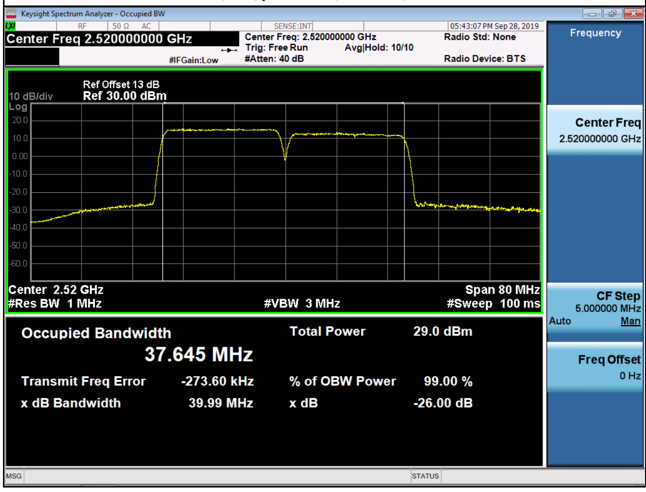
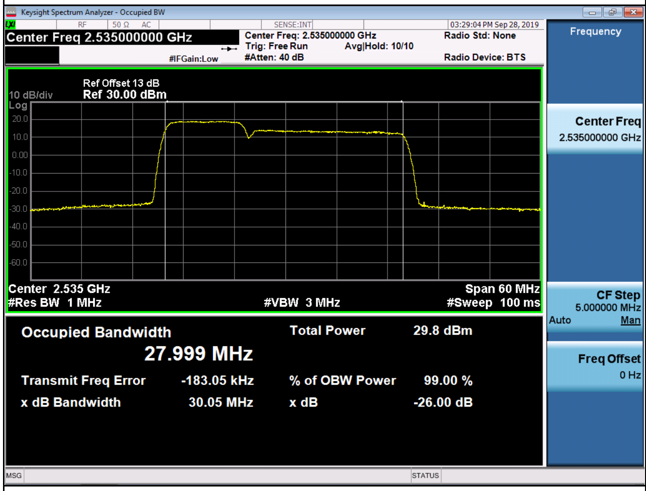
	-

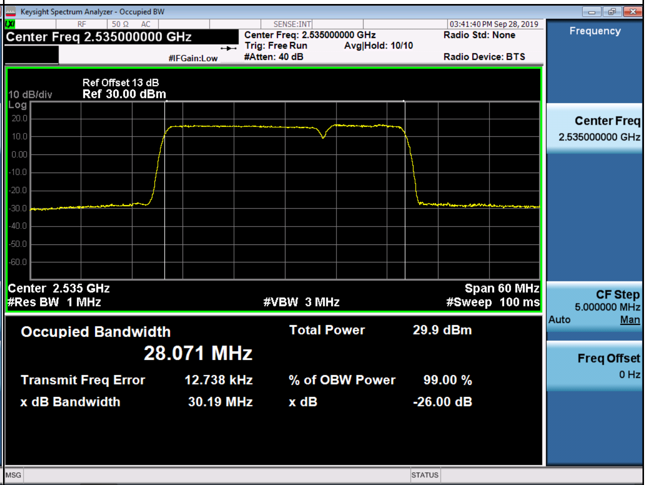
LTE CA_7C / Mid Range						
QPSK						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21006	2525.6	21150	2540	27.999	30.050
20+10	21051	2530.1	21195	2544.5	28.071	30.190
15+10	21051	2530.1	21171	2542.1	23.508	25.500
15+15	21025	2527.5	21175	2542.5	28.618	30.700
15+20	21003	2525.3	21174	2542.4	32.815	35.030
20+15	21026	2527.6	21197	2544.7	32.872	35.130
20+20	21001	2525.1	21199	2544.9	37.651	40.010
16QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21006	2525.6	21150	2540	27.990	30.030
20+10	21051	2530.1	21195	2544.5	28.096	30.170
15+10	21051	2530.1	21171	2542.1	23.503	25.520
15+15	21025	2527.5	21175	2542.5	28.622	30.720
15+20	21003	2525.3	21174	2542.4	32.806	35.010
20+15	21026	2527.6	21197	2544.7	32.887	35.100
20+20	21001	2525.1	21199	2544.9	37.675	40.040
64QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21006	2525.6	21150	2540	27.975	30.020
20+10	21051	2530.1	21195	2544.5	28.075	30.180
15+10	21051	2530.1	21171	2542.1	23.525	25.540
15+15	21025	2527.5	21175	2542.5	28.613	30.750
15+20	21003	2525.3	21174	2542.4	32.833	35.020
20+15	21026	2527.6	21197	2544.7	32.870	35.090
20+20	21001	2525.1	21199	2544.9	37.681	40.010

Spectrum Plot

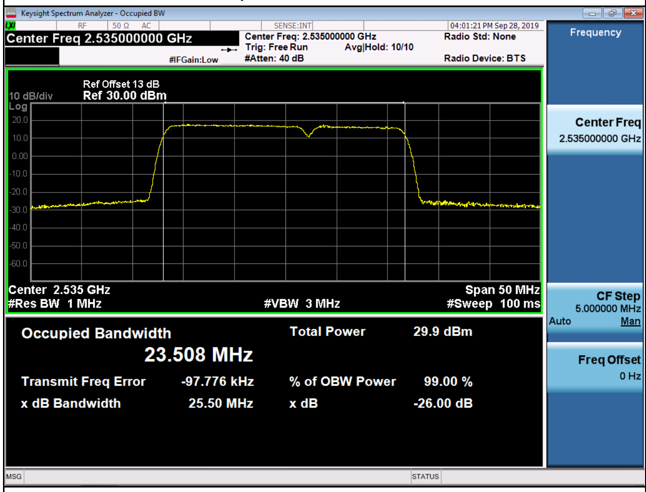
QPSK-10M+20M



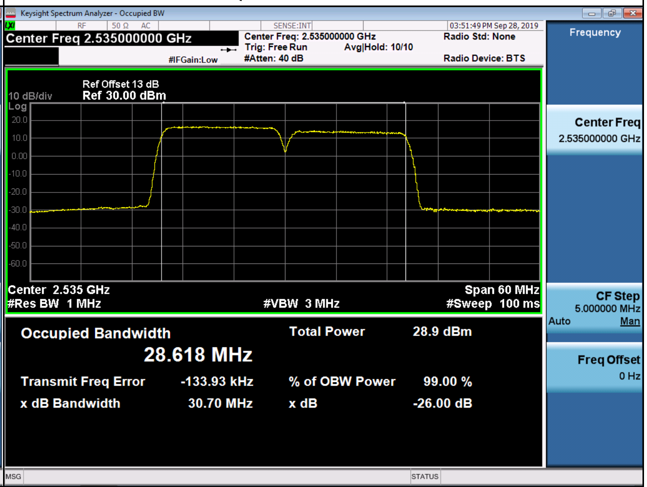
QPSK-20M+10M



QPSK-15M+10M



QPSK-15M+15M



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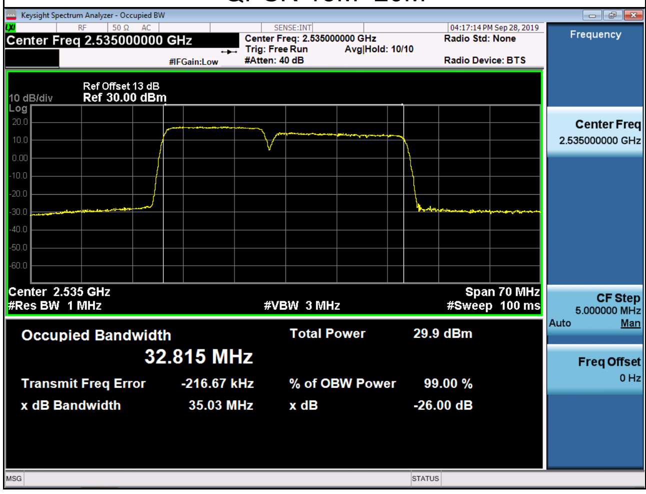

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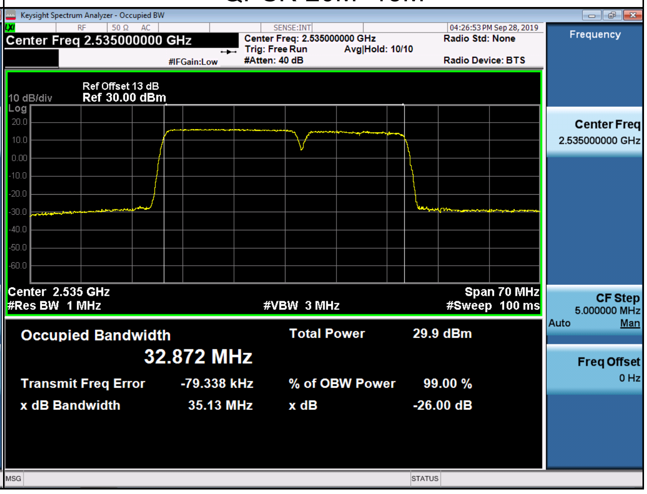
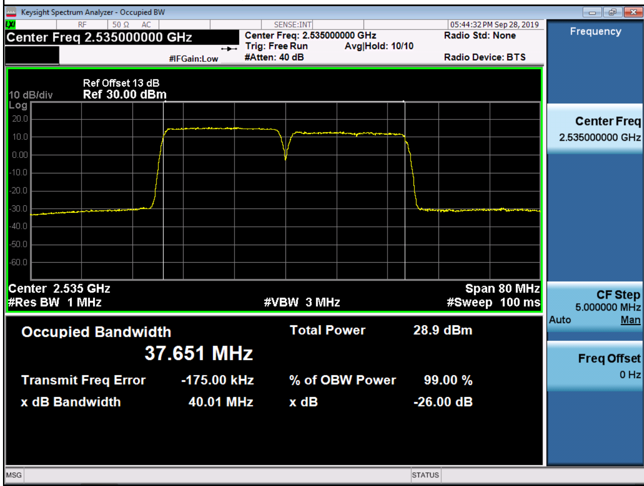


Spectrum Plot

QPSK-20M+20M



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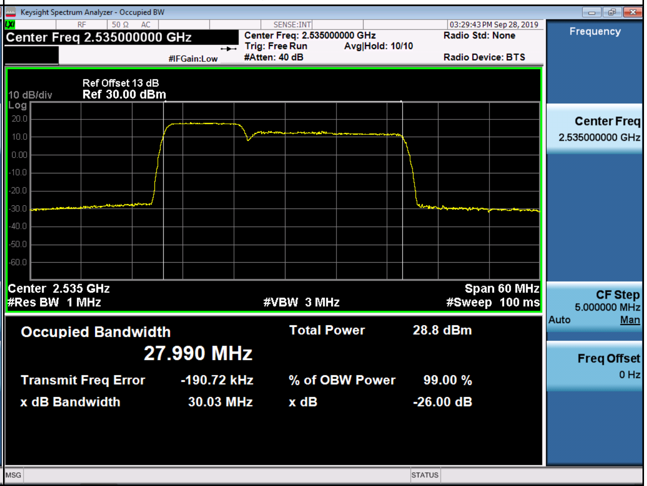

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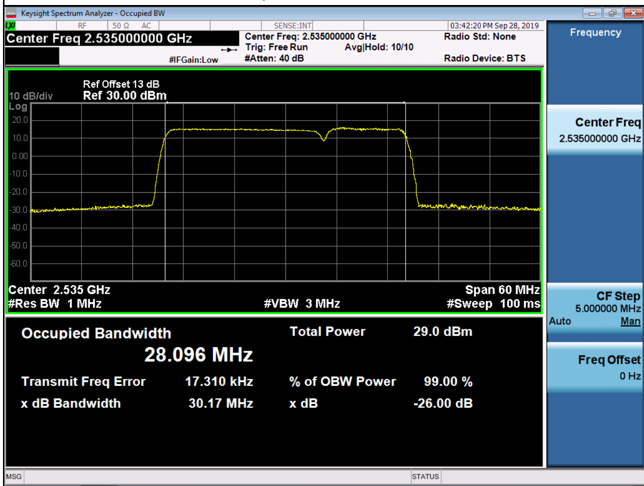

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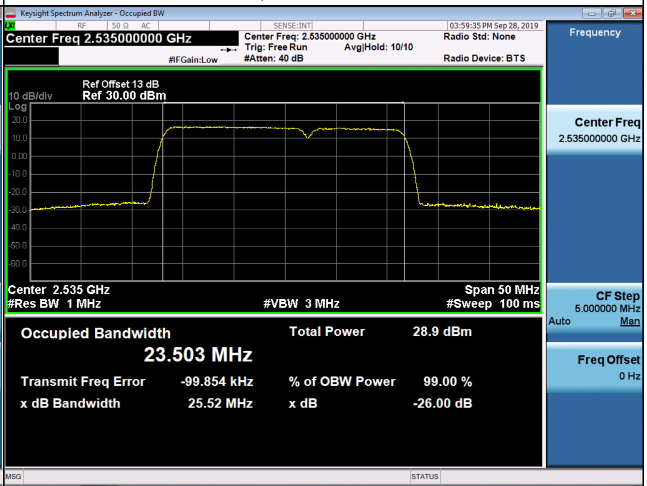

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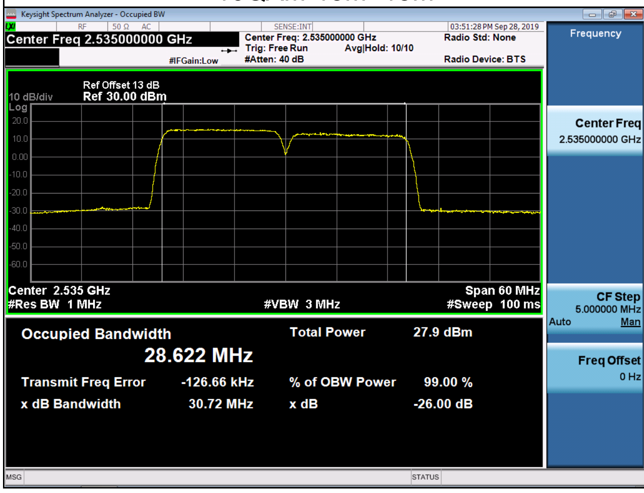

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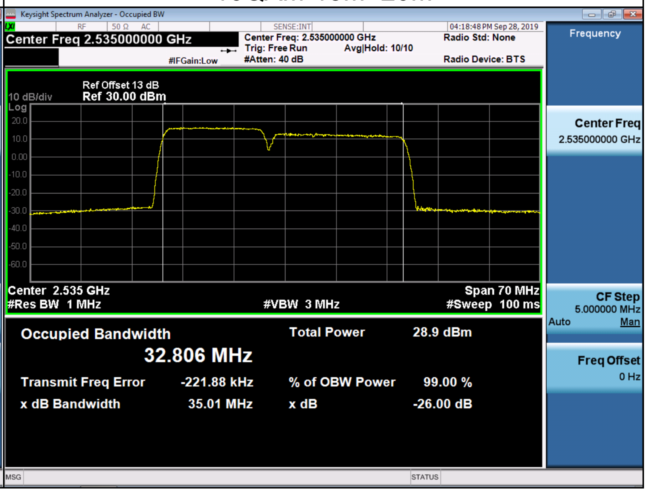
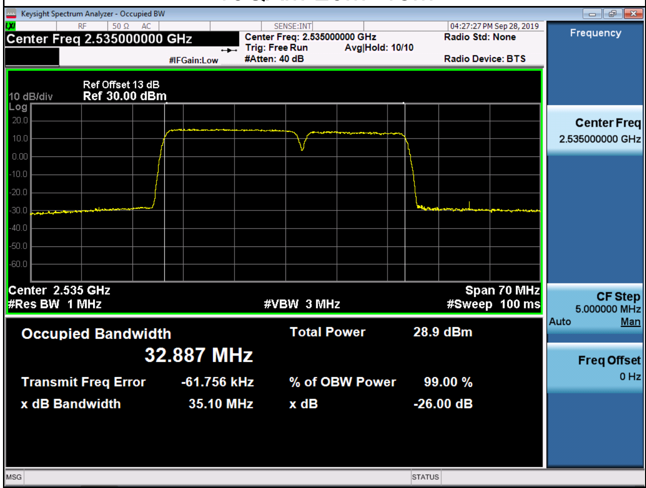


Spectrum Plot

16QAM-20M+15M



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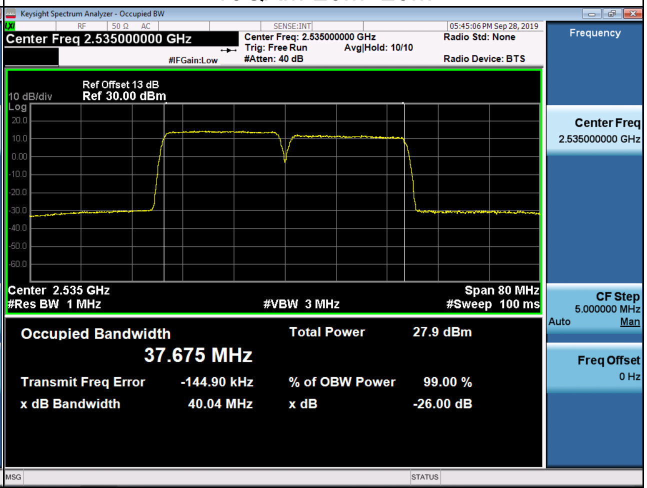

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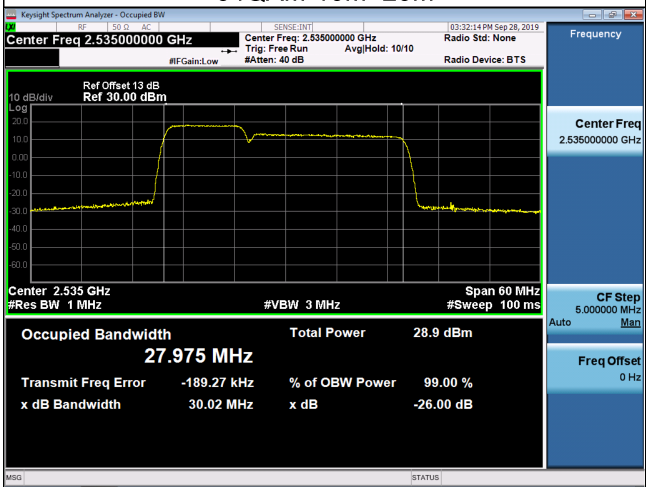

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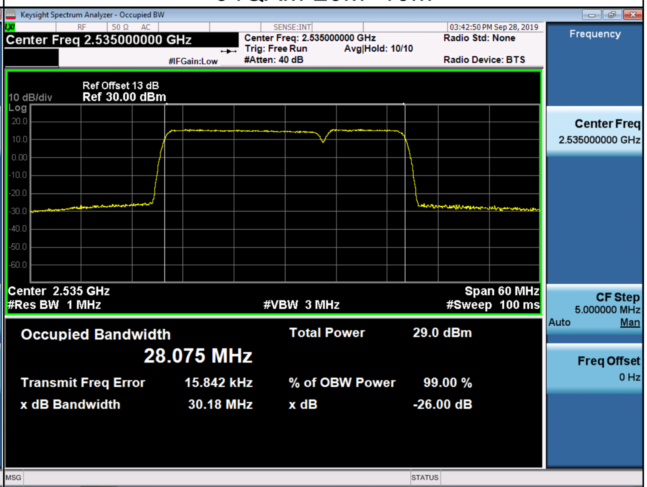

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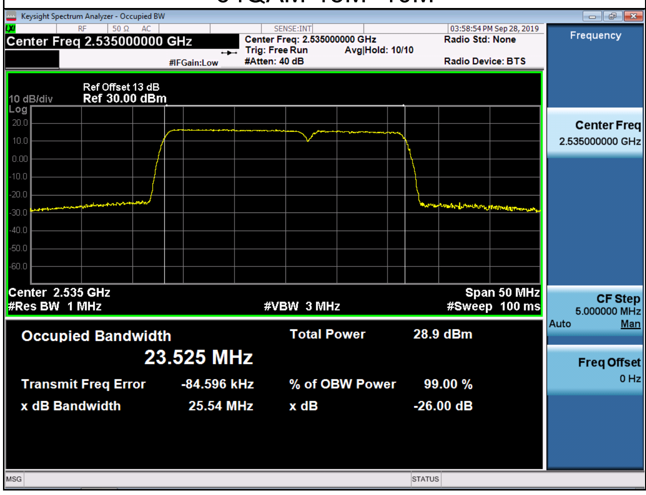

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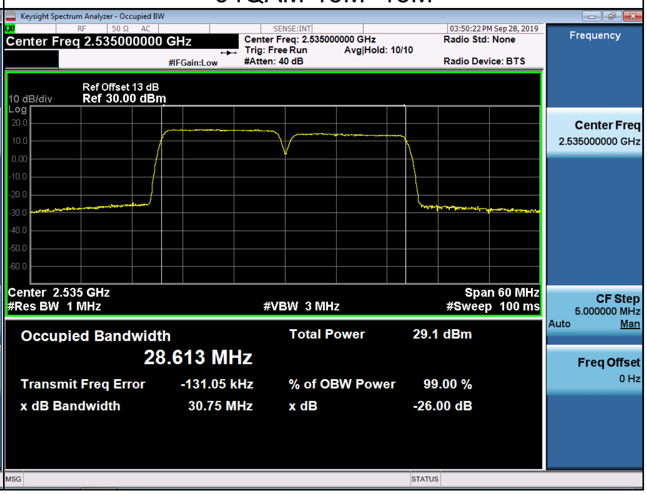
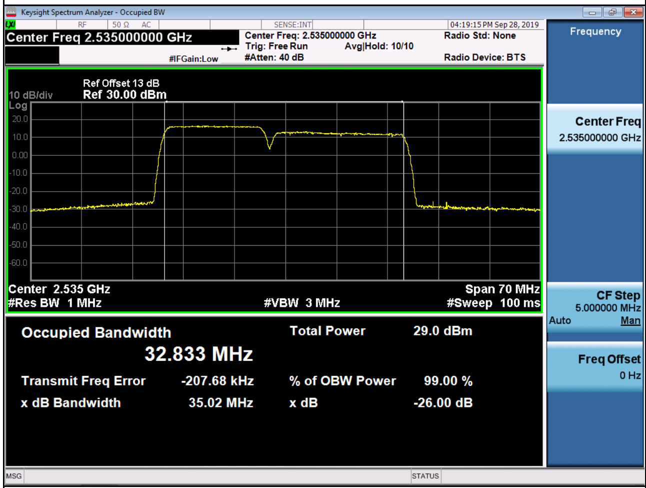
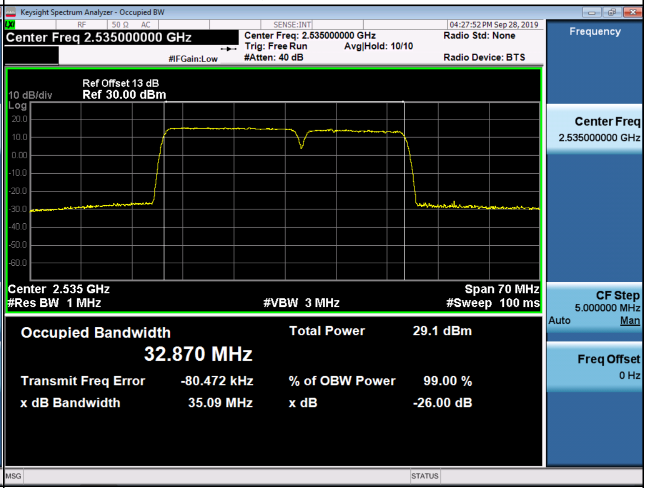
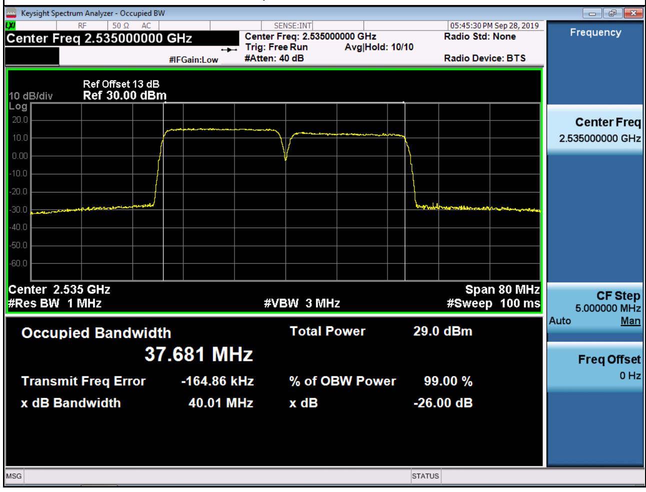
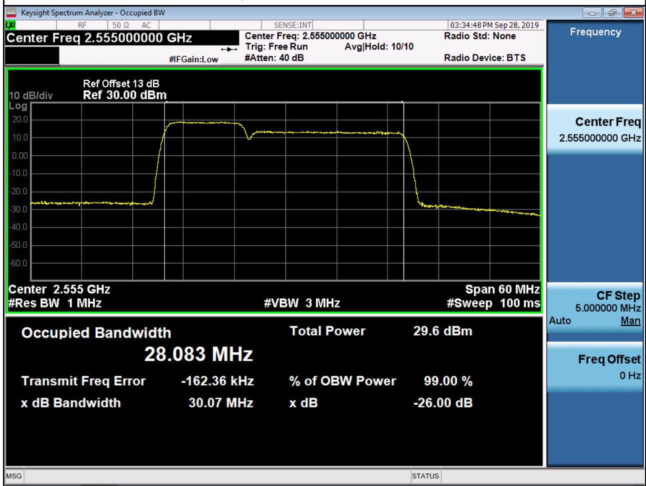


Spectrum Plot	
64QAM-15M+20M	64QAM-20M+15M
	
64QAM-20M+20M	-
	-

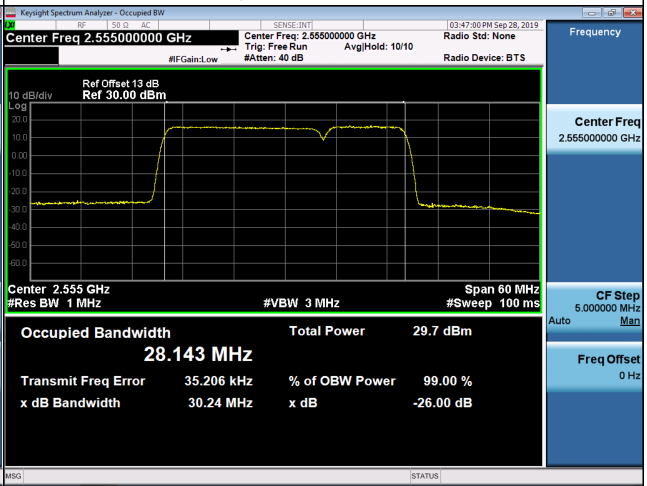
LTE CA_7C / High Range						
QPSK						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21206	2545.6	21350	2560	28.083	30.070
20+10	21251	2550.1	21395	2564.5	28.143	30.240
15+10	21277	2552.7	21397	2564.7	23.565	25.570
15+15	21225	2547.5	21375	2562.5	28.655	30.740
15+20	21179	2542.9	21350	2560	32.905	35.080
20+15	21201	2545.1	21372	2562.2	32.938	35.140
20+20	21152	2540.2	21350	2560	37.797	40.080
16QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21206	2545.6	21350	2560	28.085	30.030
20+10	21251	2550.1	21395	2564.5	28.152	30.210
15+10	21277	2552.7	21397	2564.7	23.565	25.560
15+15	21225	2547.5	21375	2562.5	28.654	30.730
15+20	21179	2542.9	21350	2560	32.933	35.100
20+15	21201	2545.1	21372	2562.2	32.959	35.130
20+20	21152	2540.2	21350	2560	37.777	39.980
64QAM						
Bandwidth (MHz)	PCC CH	PCC Frequency (MHz)	SCC CH	SCC Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Occupied Bandwidth (MHz)
10+20	21206	2545.6	21350	2560	28.058	30.010
20+10	21251	2550.1	21395	2564.5	28.129	30.200
15+10	21277	2552.7	21397	2564.7	23.559	25.560
15+15	21225	2547.5	21375	2562.5	28.644	30.680
15+20	21179	2542.9	21350	2560	32.899	35.060
20+15	21201	2545.1	21372	2562.2	32.972	35.150
20+20	21152	2540.2	21350	2560	37.778	40.010

Spectrum Plot

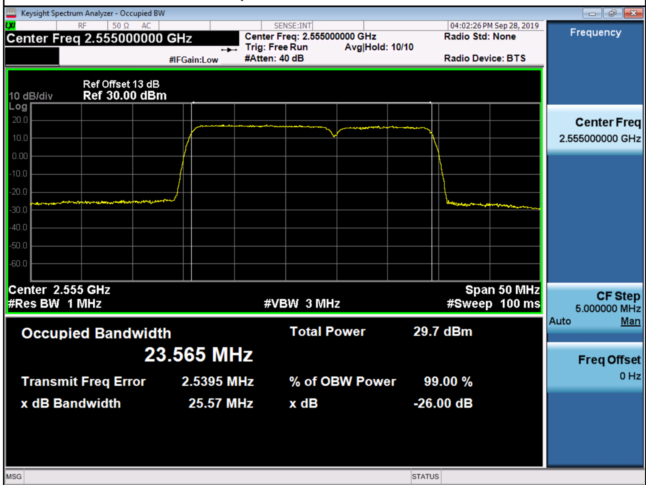
QPSK-10M+20M



QPSK-20M+10M



QPSK-15M+10M



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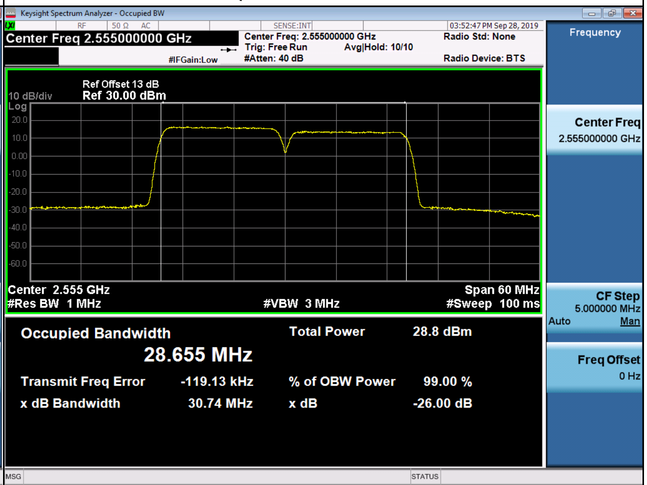

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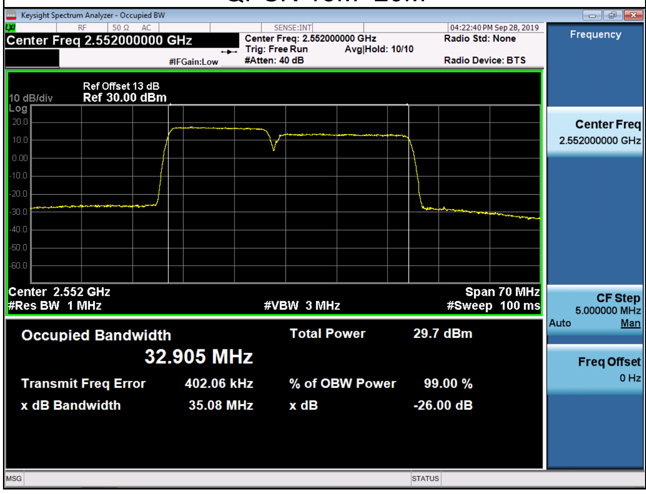

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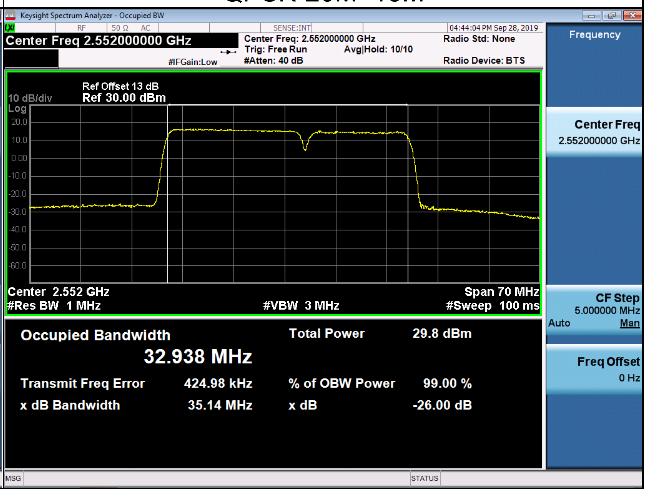
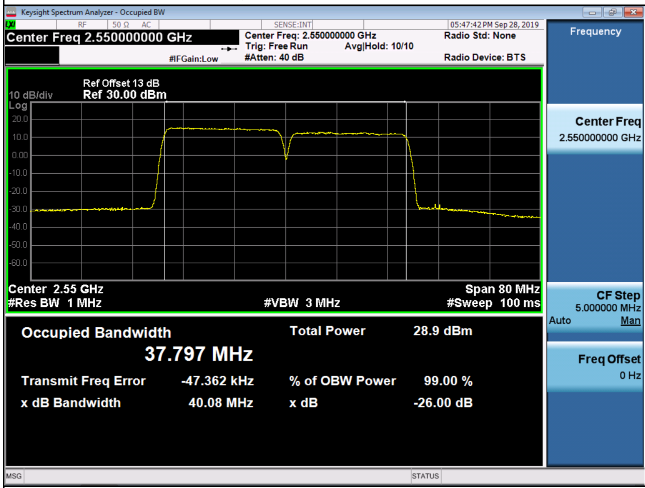


Spectrum Plot

QPSK-20M+20M



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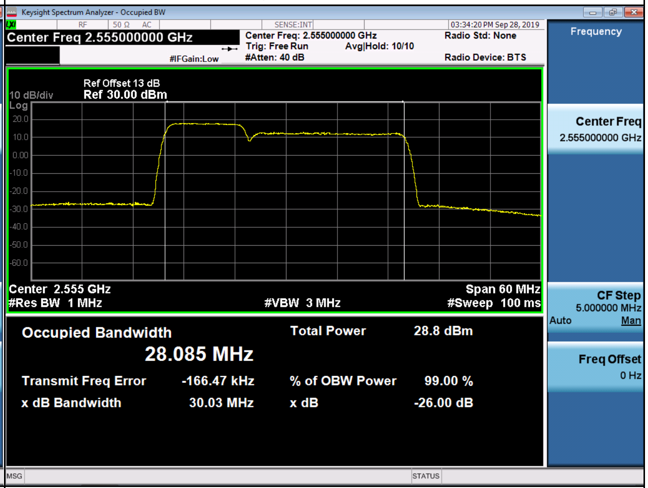

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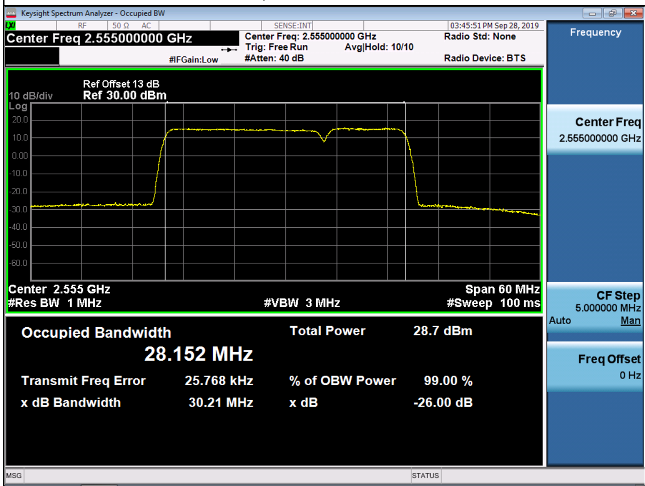

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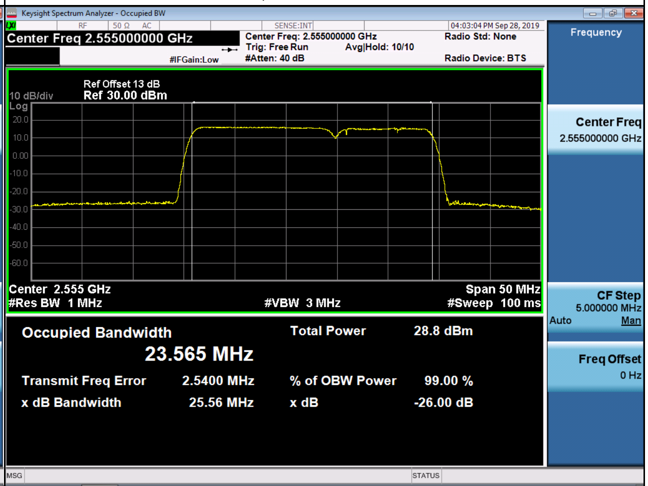

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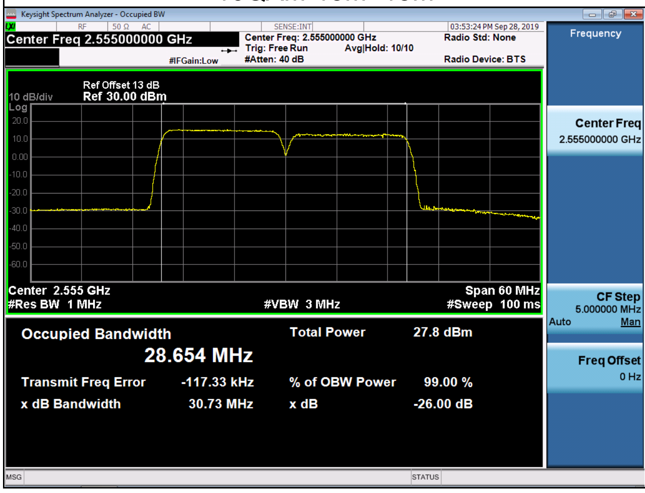

16QAM-15M+20M