



5 MODULATION CHARACTERISTICS

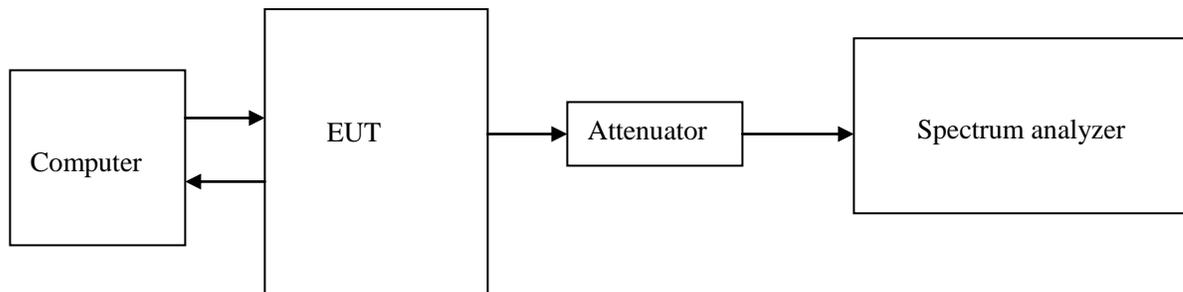
Applicable Standard: FCC § 2.1047

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY51240300	2014.12.10	2015.12.10
DTS	DTS 40dB Attenuator	DTS100-40-3-1	09112005	2015.06.13	2016.06.13

***statement of traceability:** ZTE Corporation Reliability Testing Center attests that all calibration has been performed per the NVLAP requirements, traceable to NIST.

Test Procedure



The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. External attenuation Loss is 26.7dB. Configure RRU output different modulation signals and test EVM by spectrum analyzer.

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

Test Result: Pass

Test Mode: Transmitting LTE

Test Data:

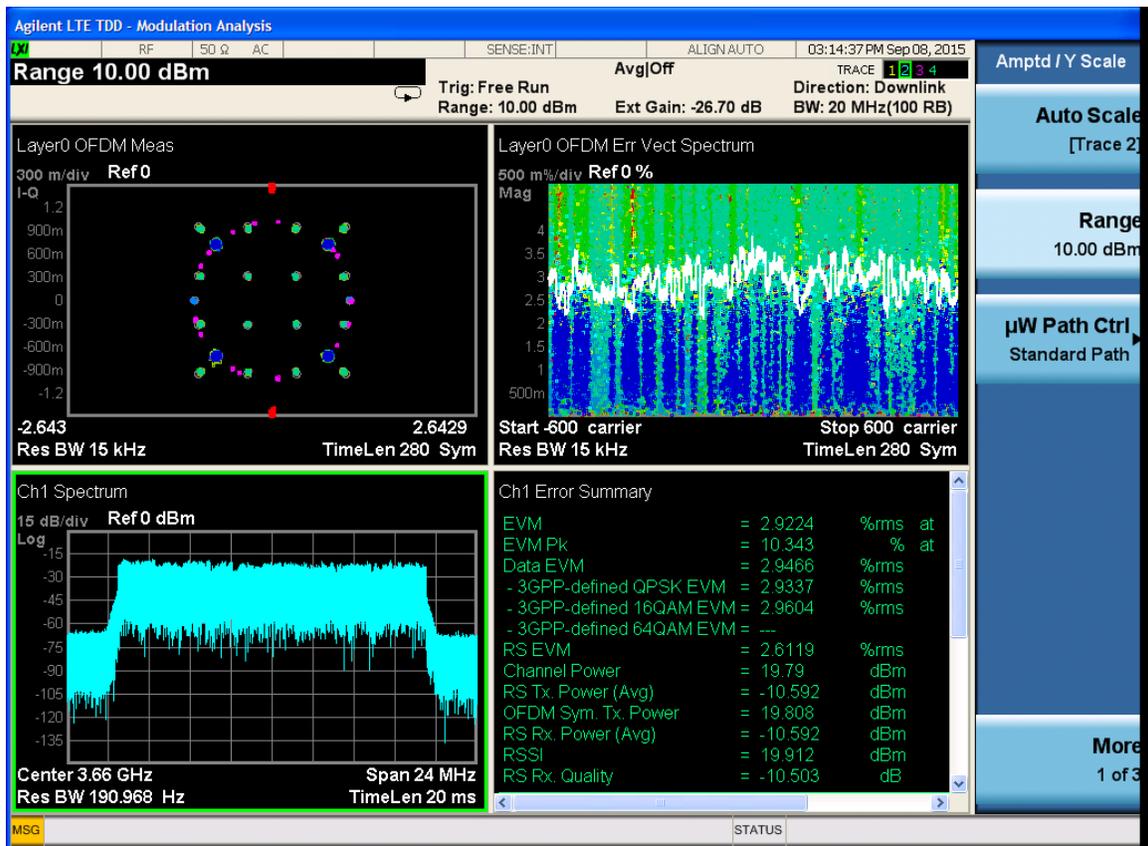
Channel Bandwidth: 20M

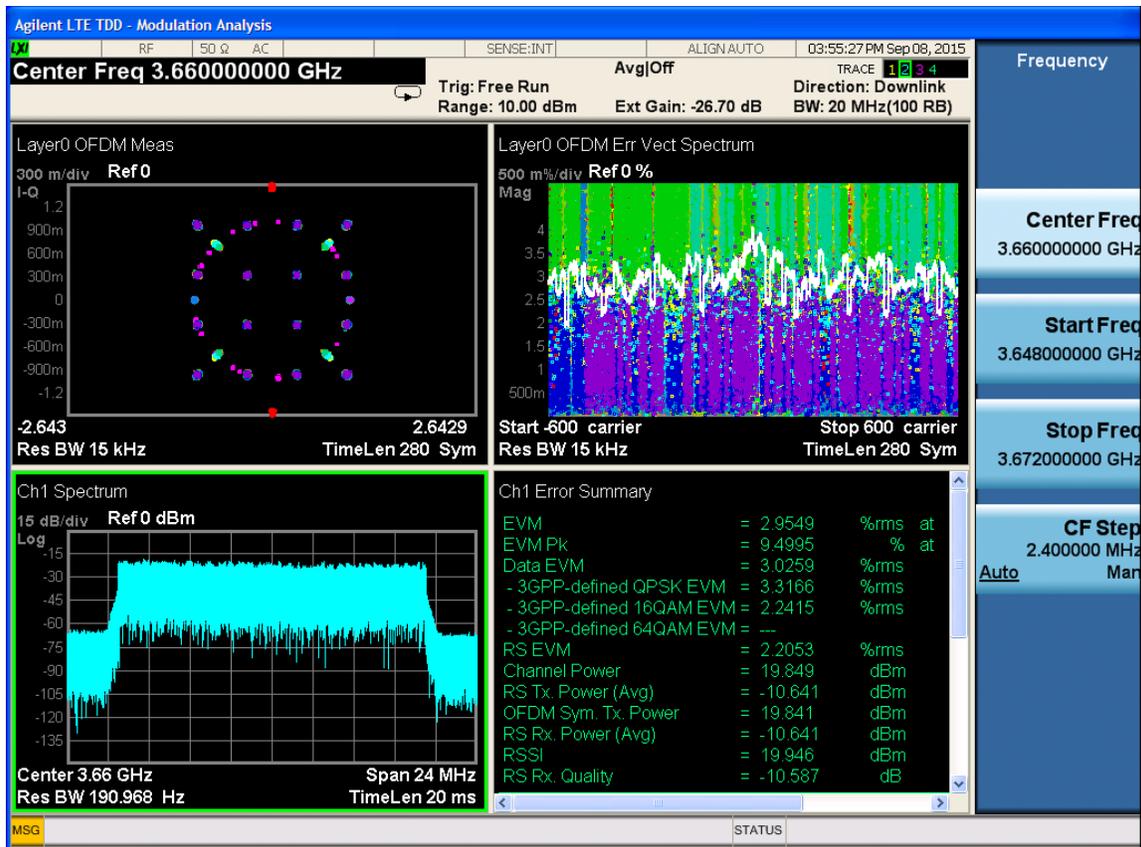
Port	Carrier Freq. (MHz)	Modulation characteristics		
		QPSK	16QAM	64QAM
0	3660	2.93	3.32	1.24
1		2.92	3.32	1.26
2		2.94	3.33	1.25
3		2.93	3.32	1.25
0	3675	2.95	3.32	1.23
1		2.94	3.33	1.24
2		2.96	3.32	1.23
3		2.97	3.32	1.24
0	3690	2.93	3.34	1.25

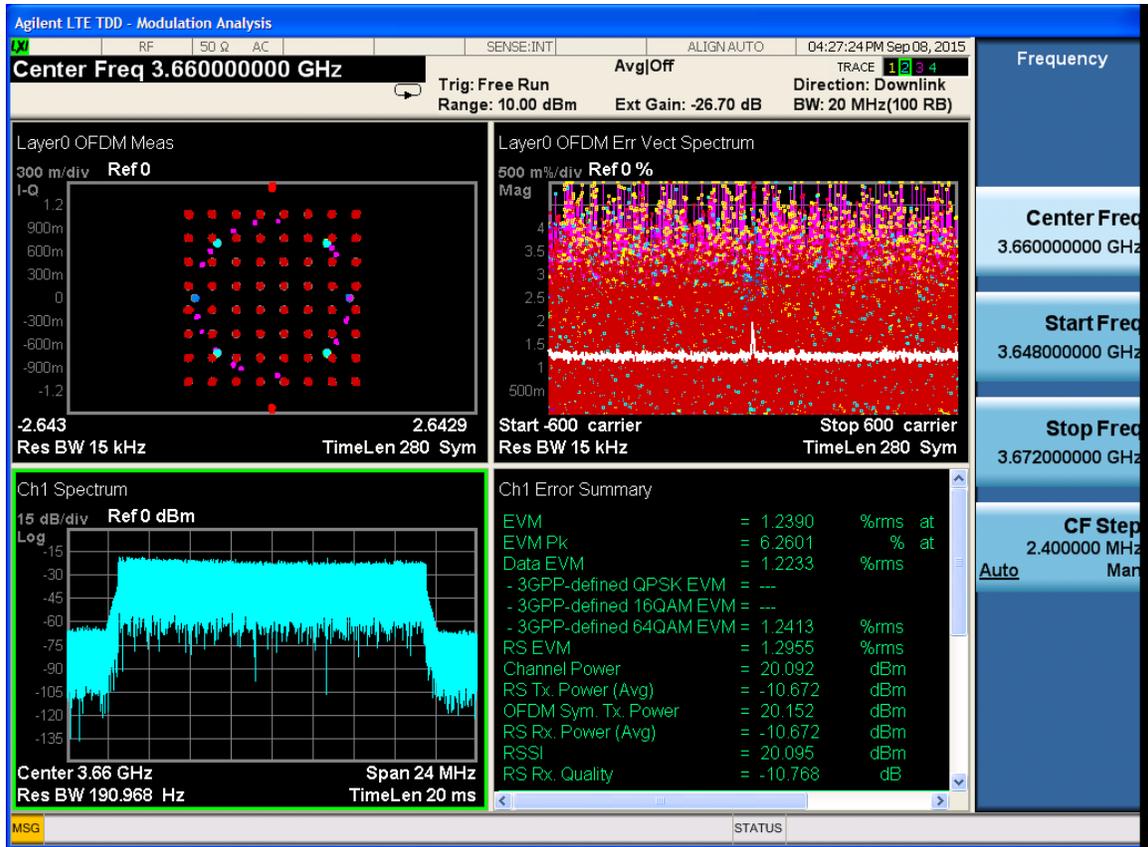
1		2.96	3.33	1.26
2		2.97	3.33	1.29
3		2.96	3.31	1.26

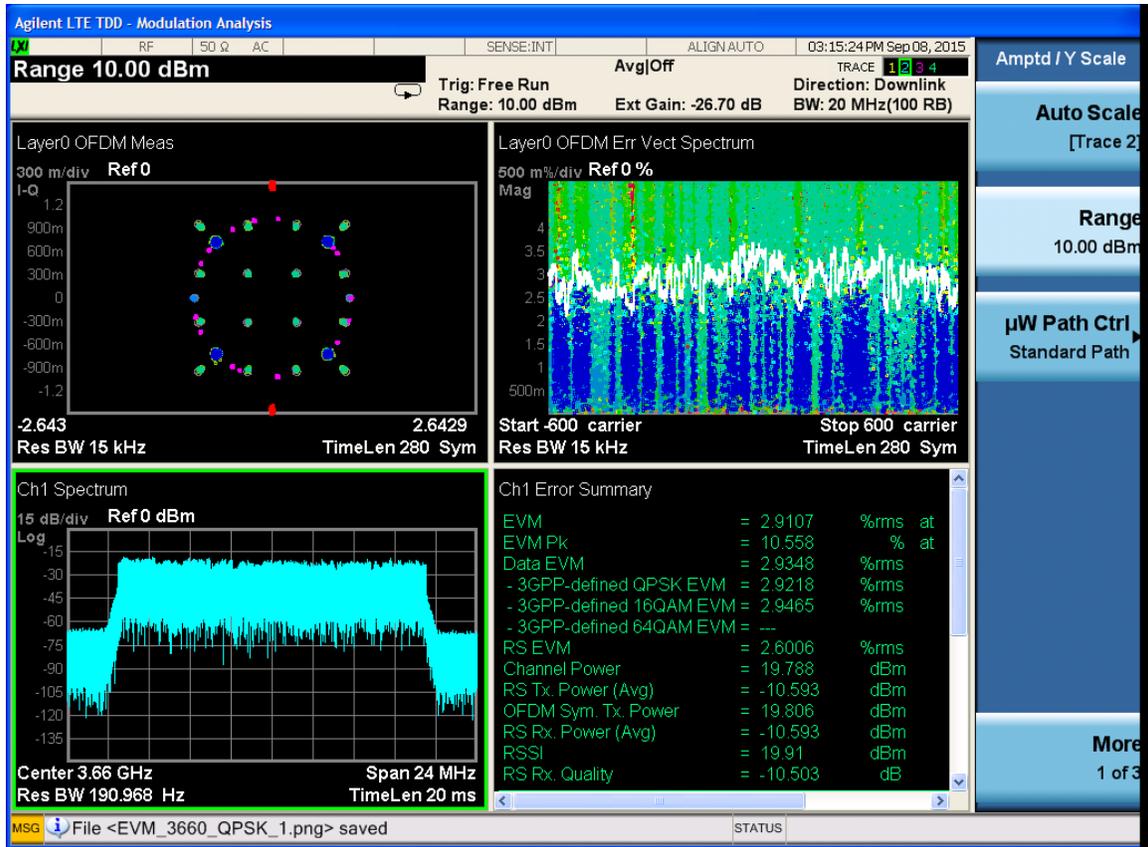
Channel Bandwidth: 20+20+10M

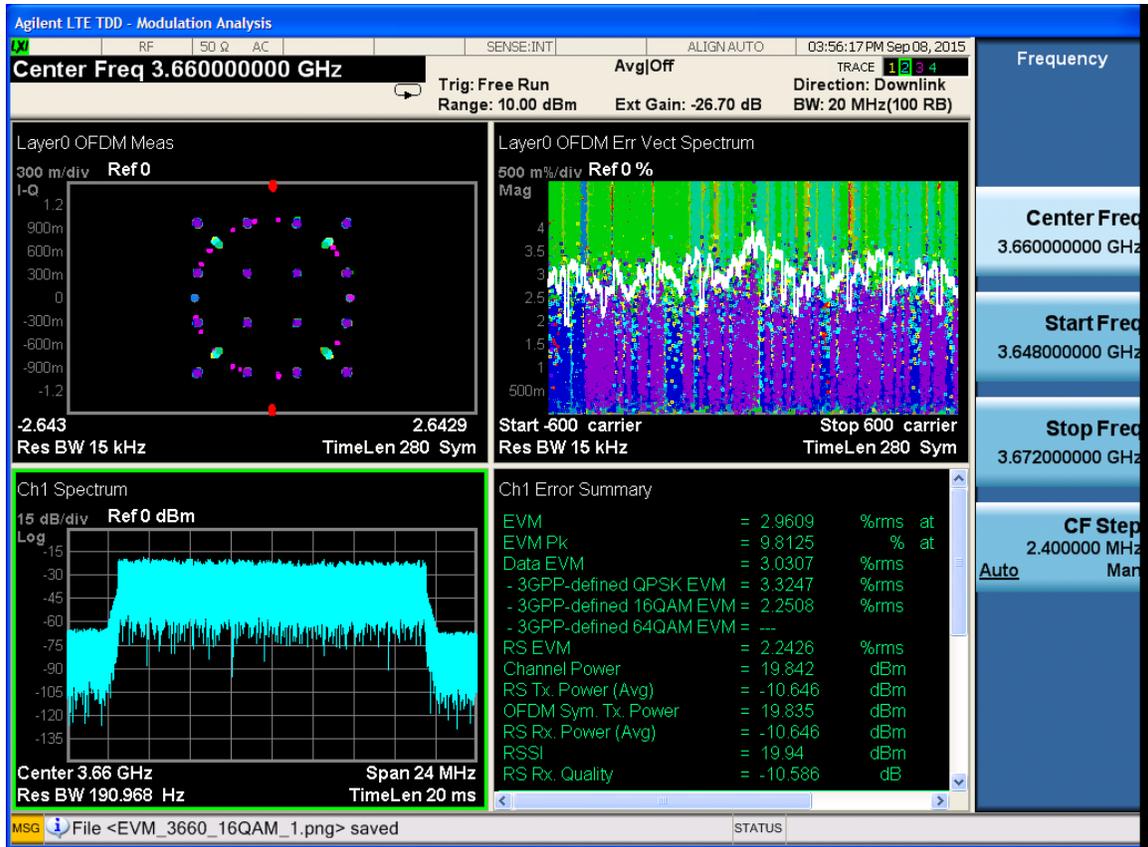
Port	Carrier Freq. (MHz)	Modulation characteristics		
		QPSK	16QAM	64QAM
0	3660	2.78	2.2	1.16
1		2.78	2.17	1.16
2		2.77	2.18	1.16
3		2.75	2.16	1.16
0	3680	2.74	2.18	1.15
1		2.76	2.18	1.16
2		2.75	2.18	1.14
3		2.77	2.17	1.14
0	3695	3.91	3.09	2.26
1		3.91	3.08	2.23
2		3.91	3.09	2.27
3		3.96	3.08	2.24

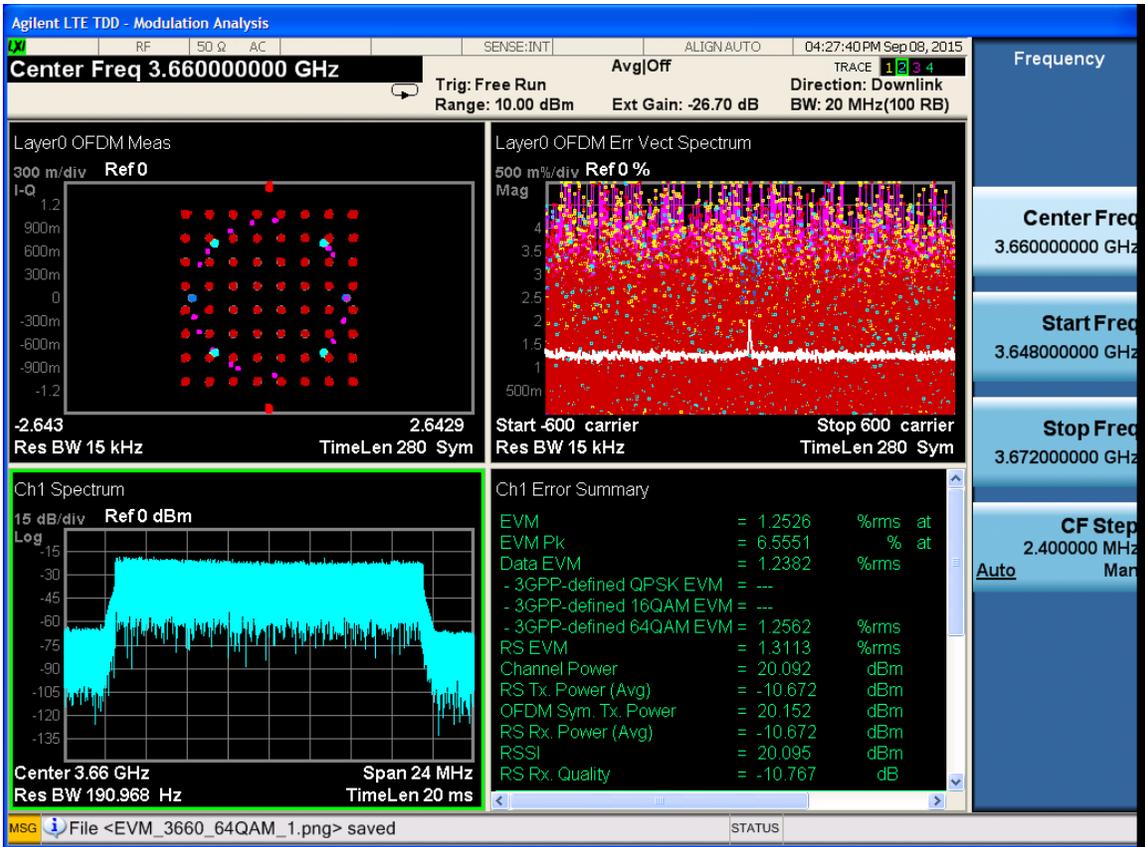


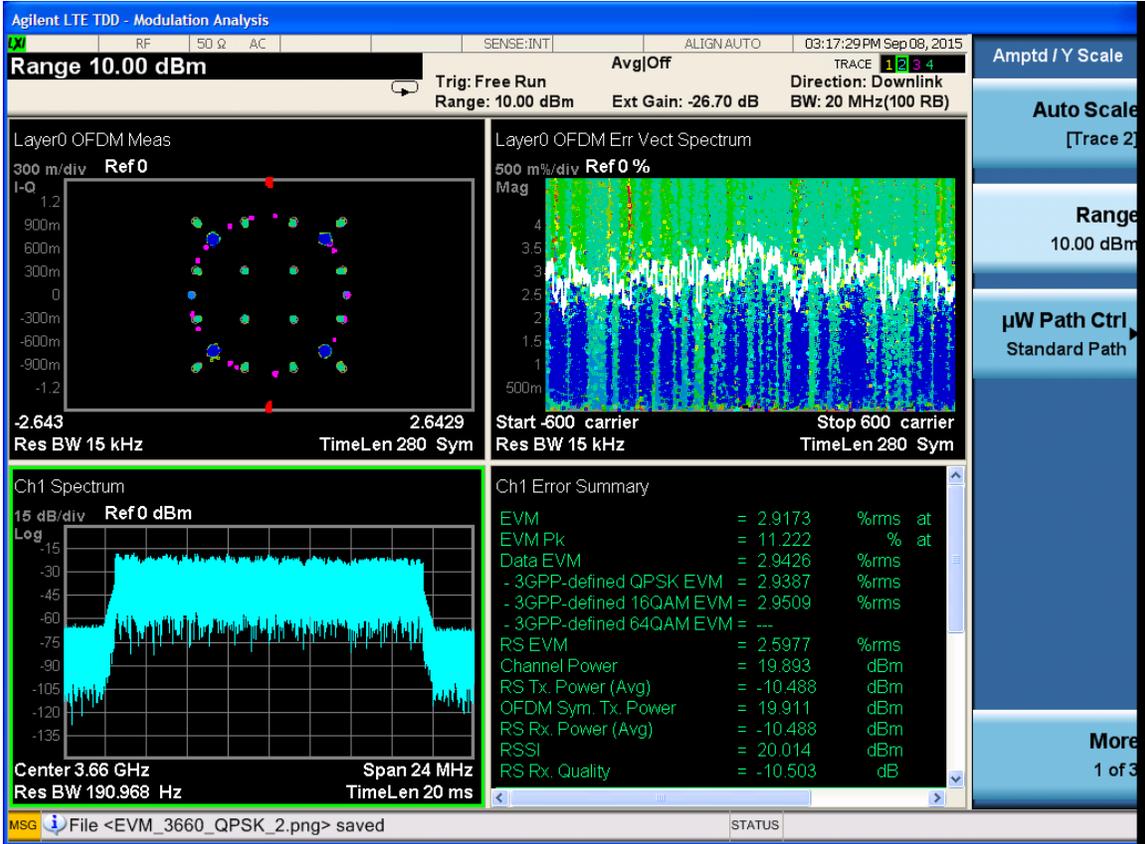


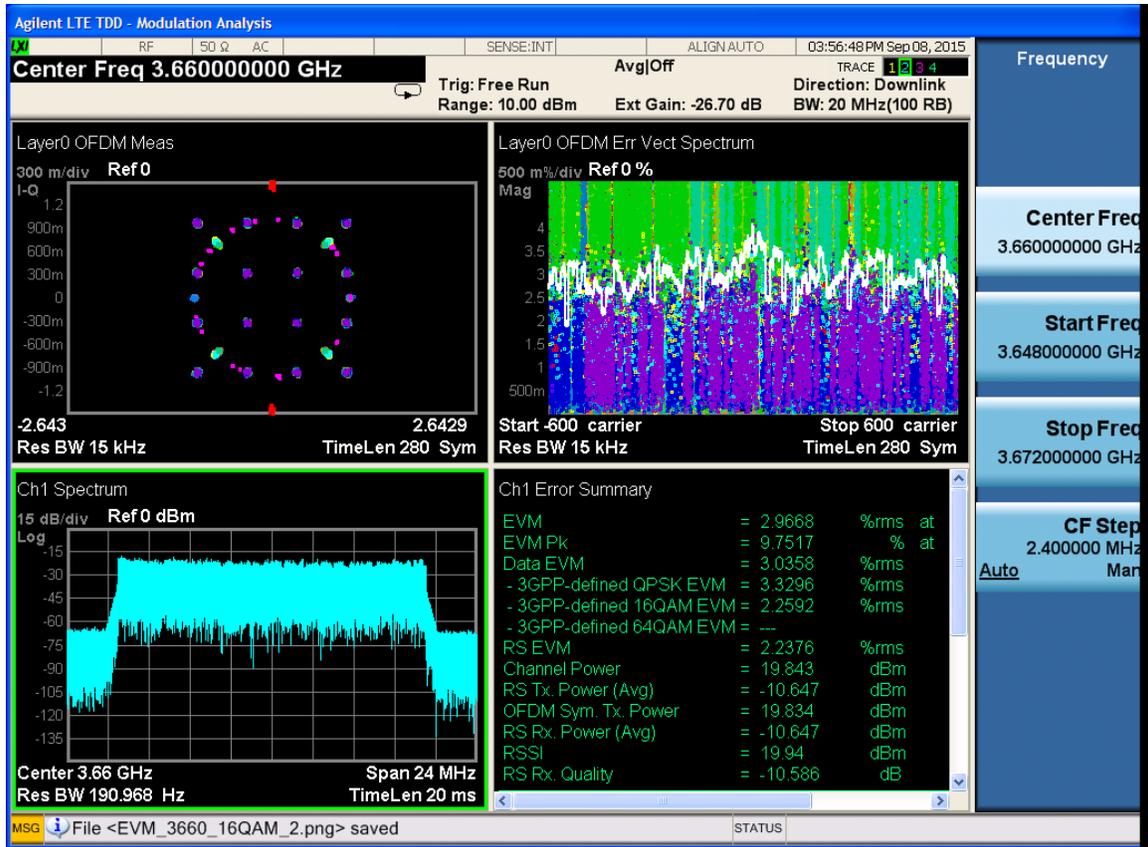


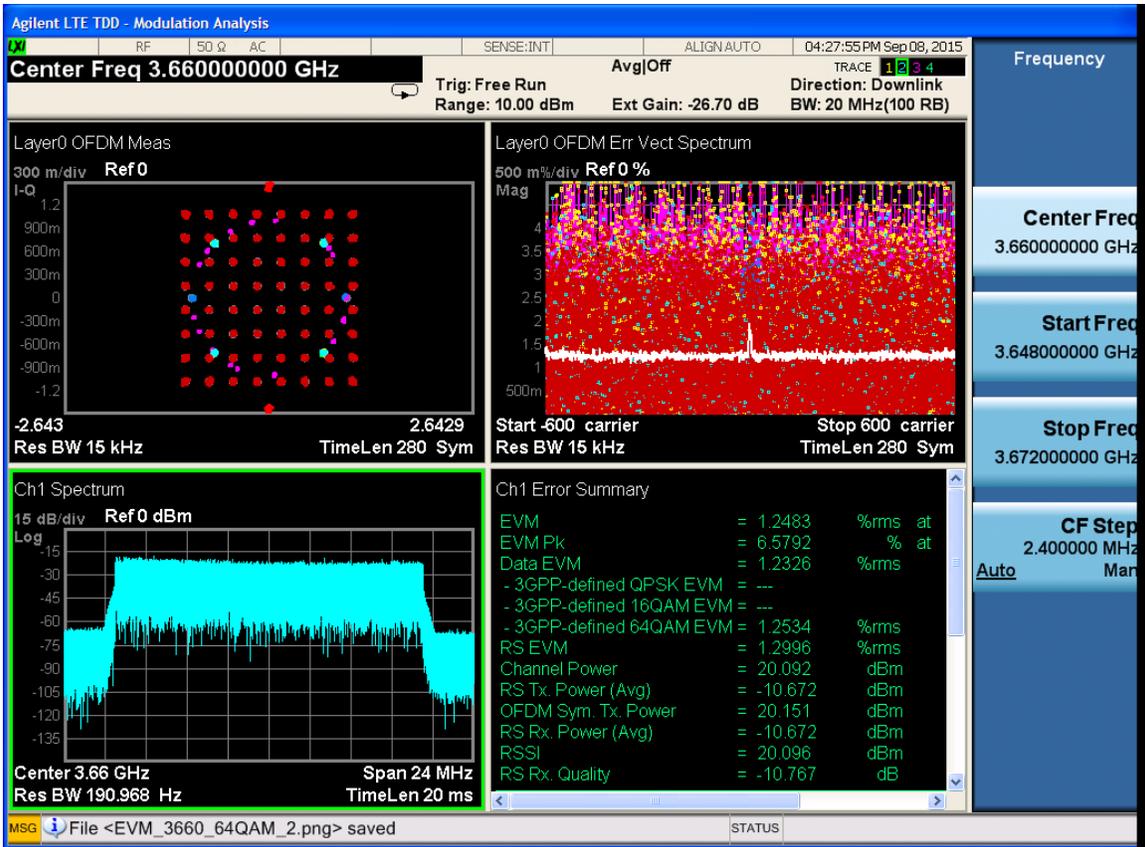


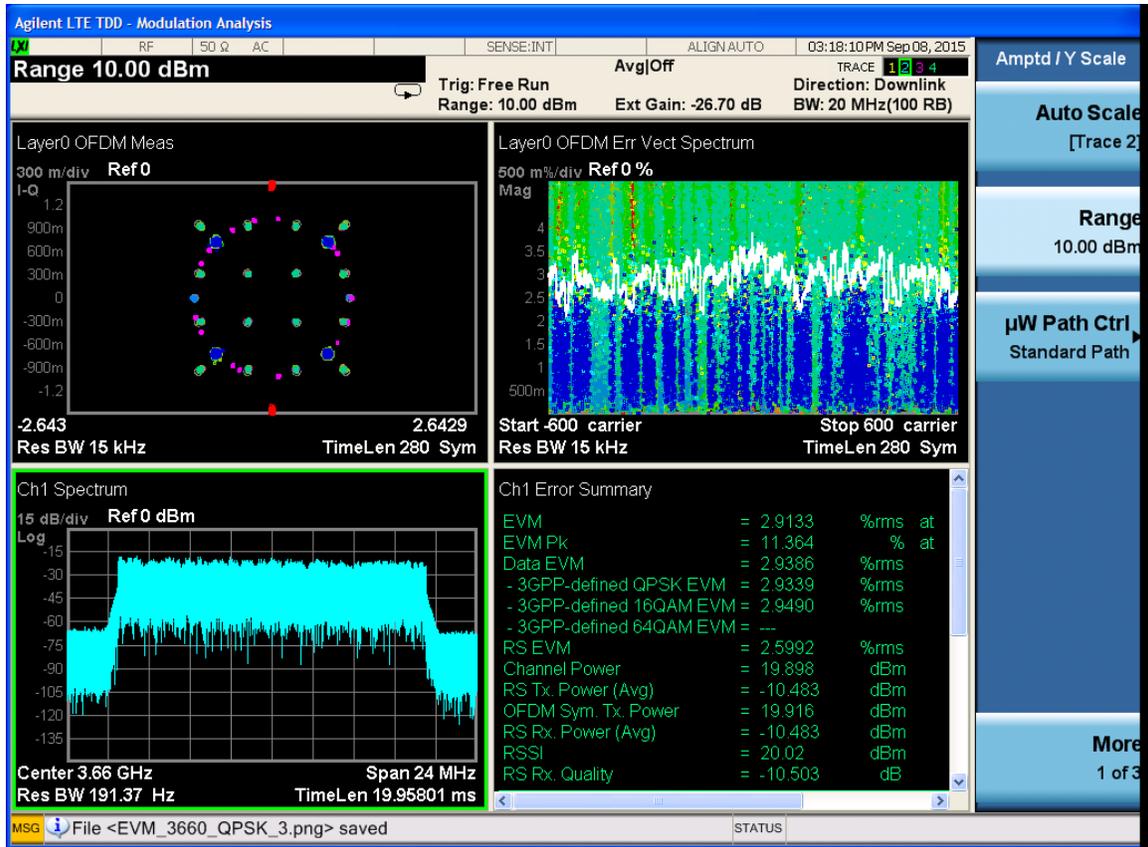


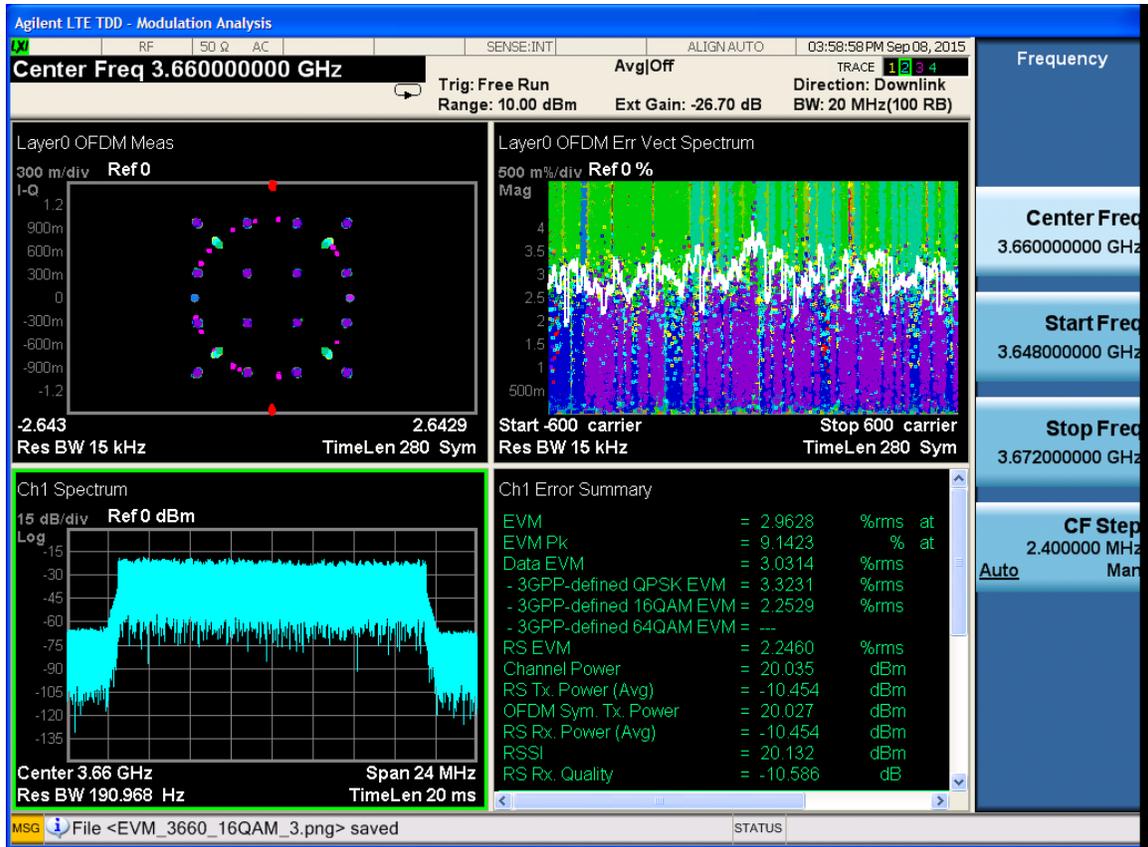


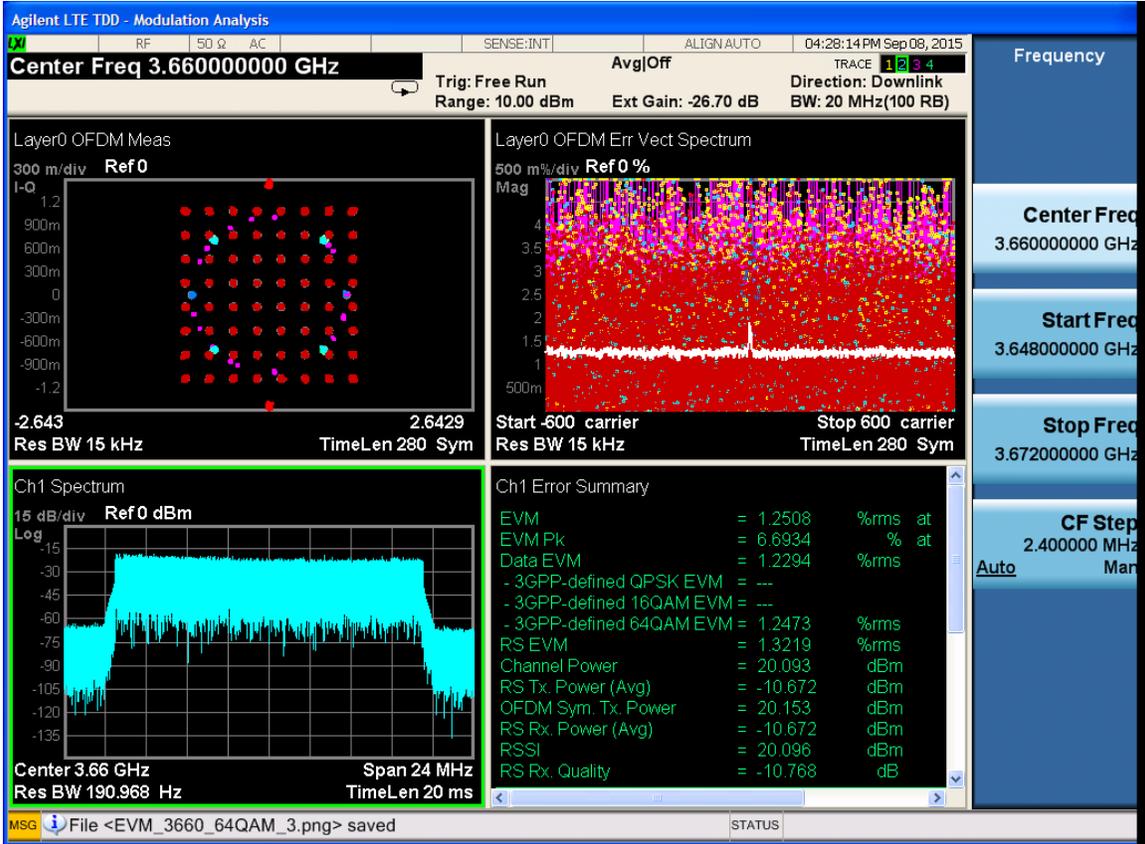


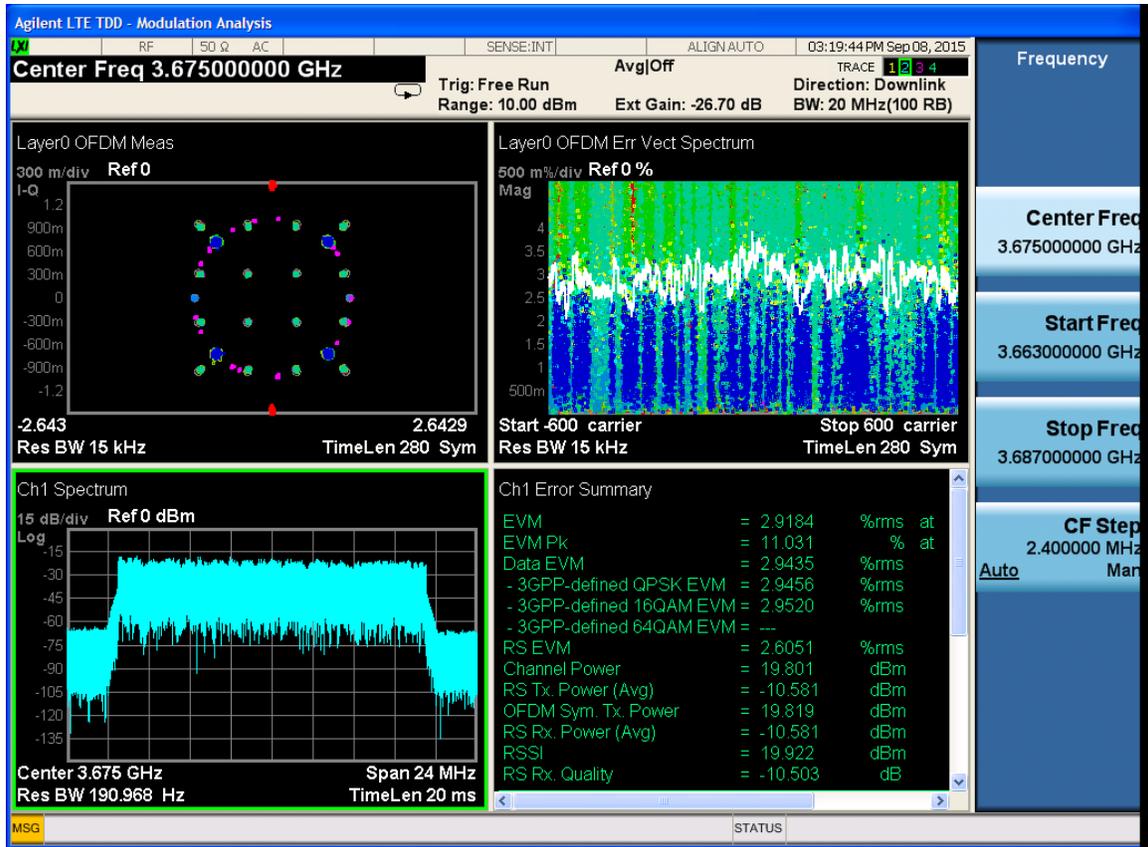


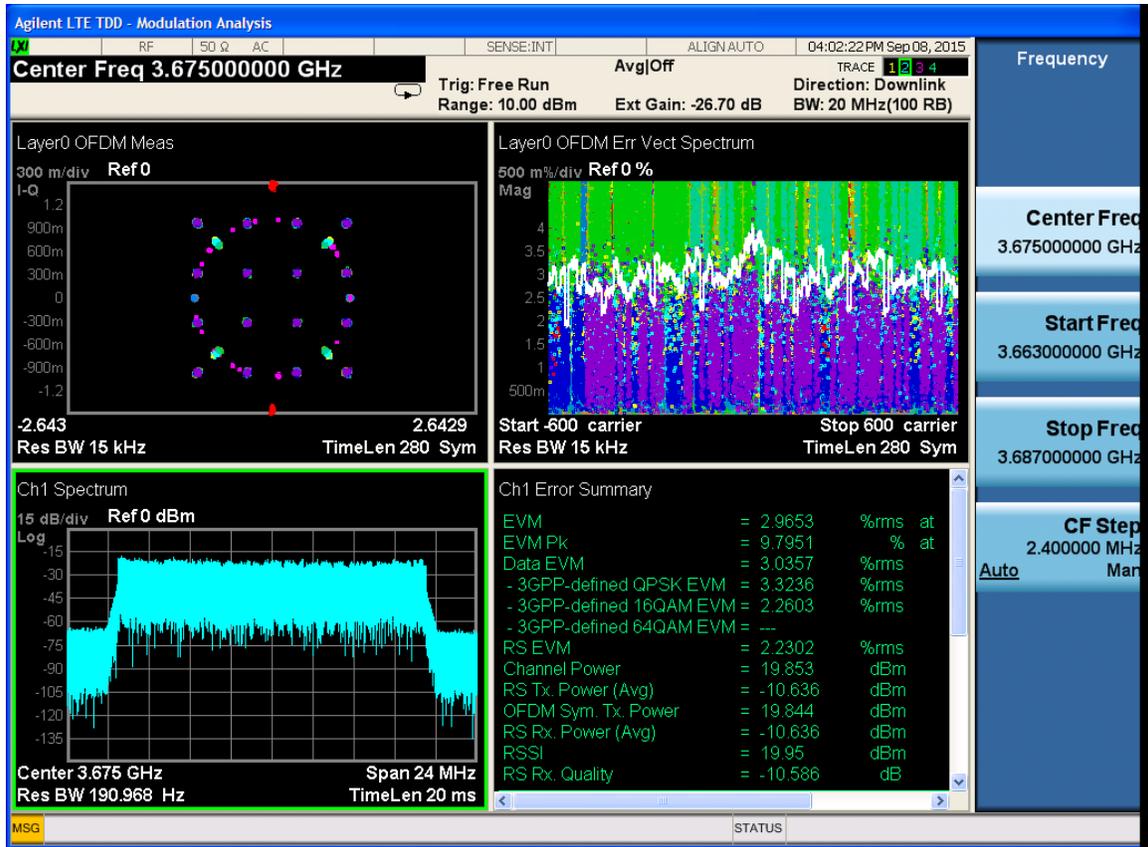


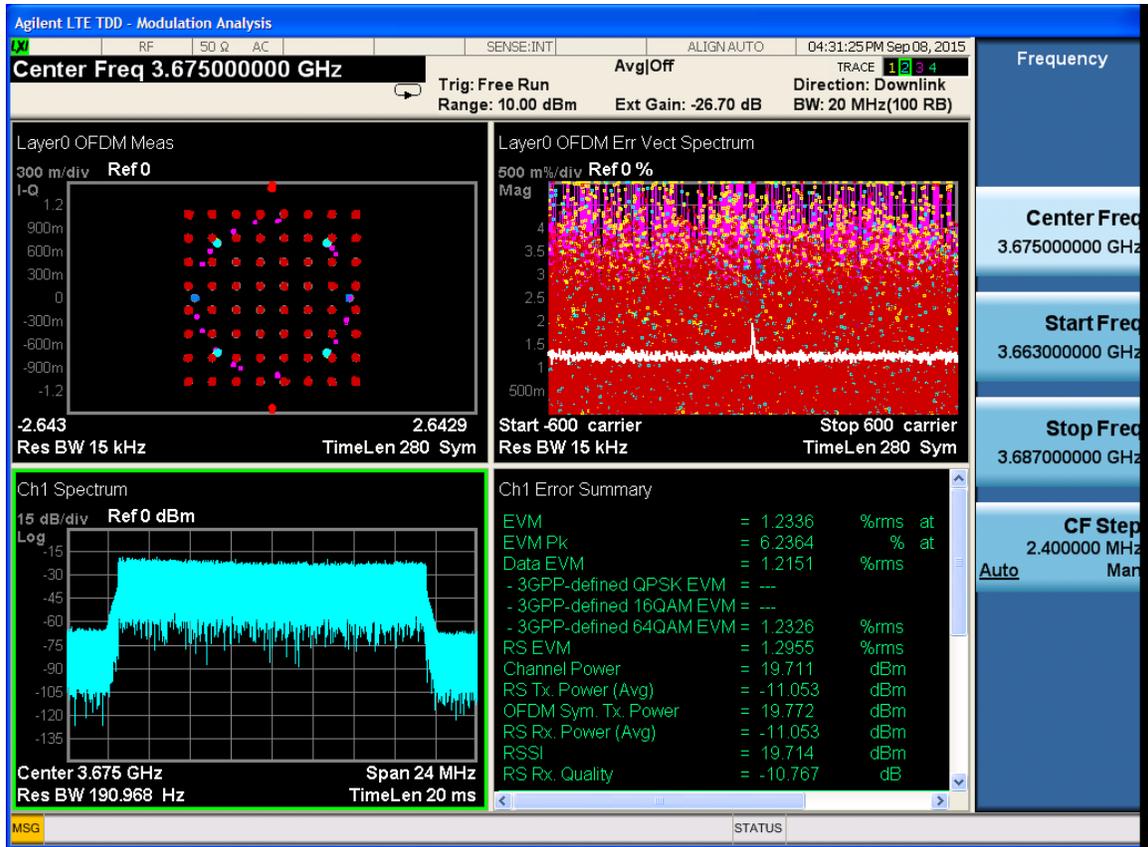


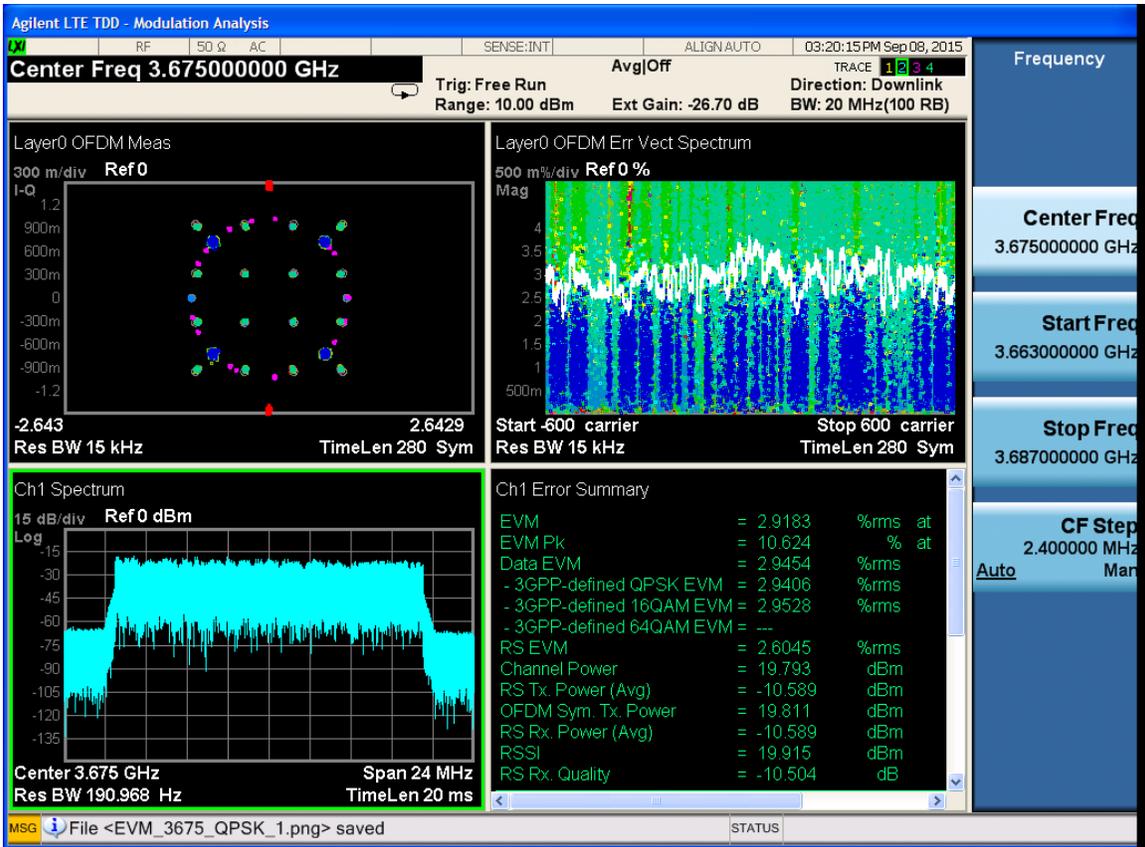


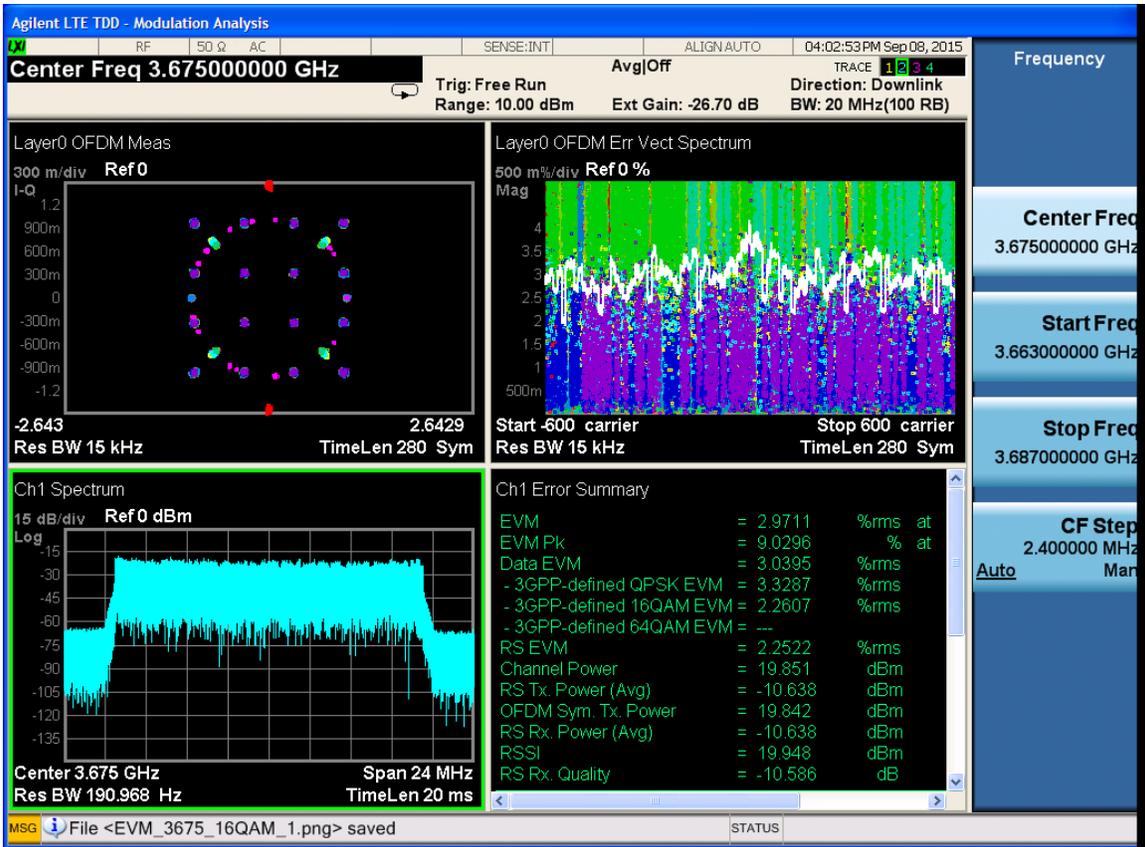


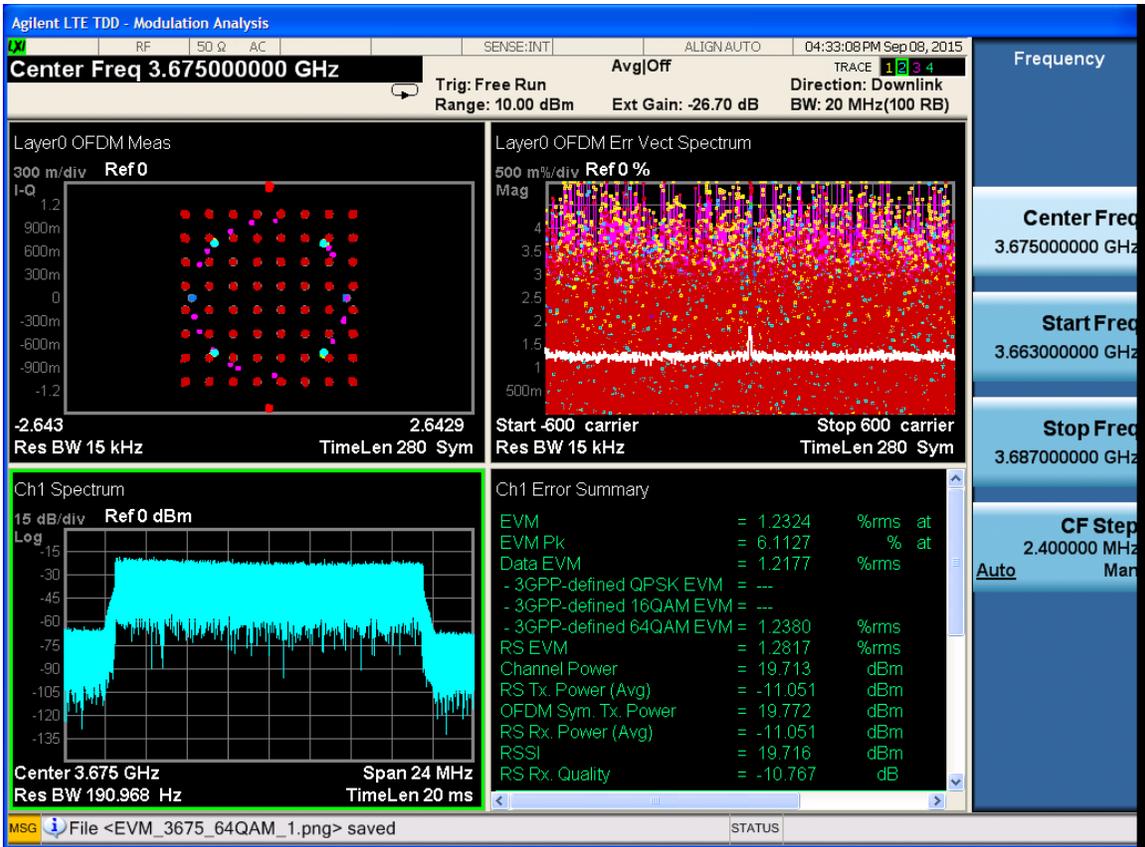


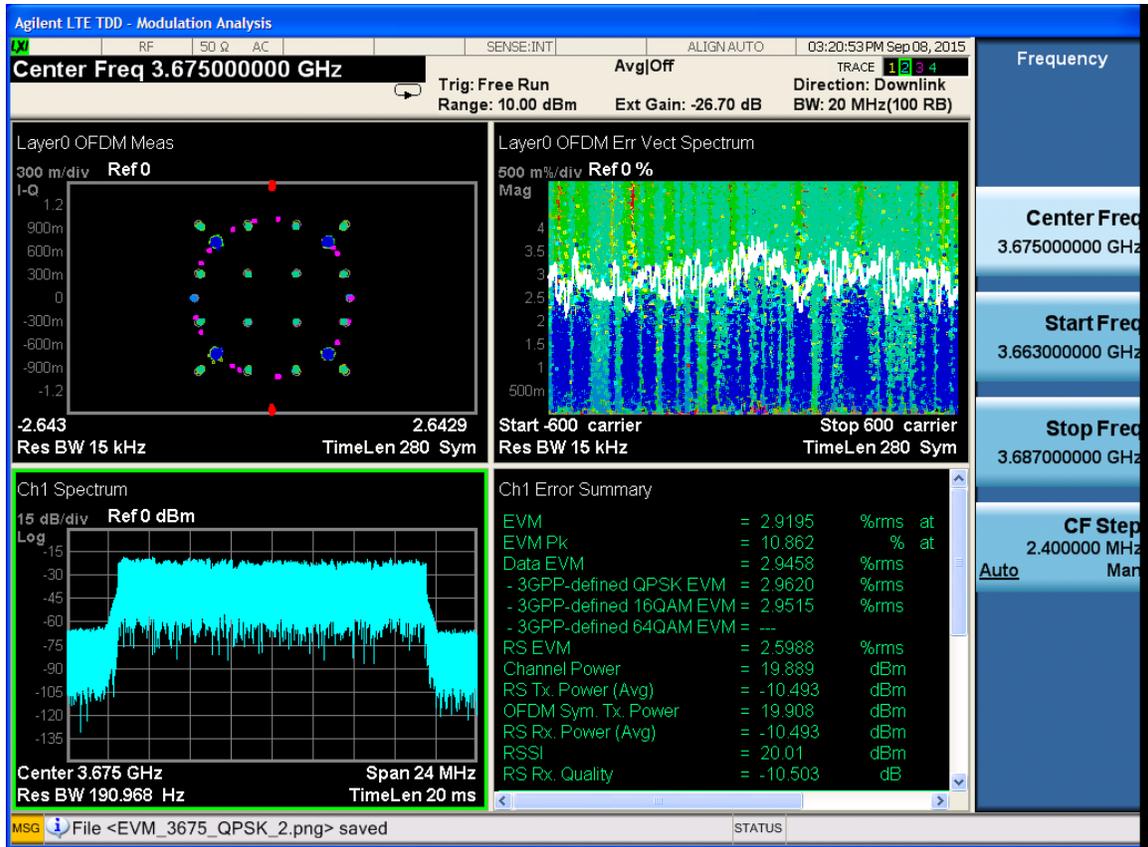


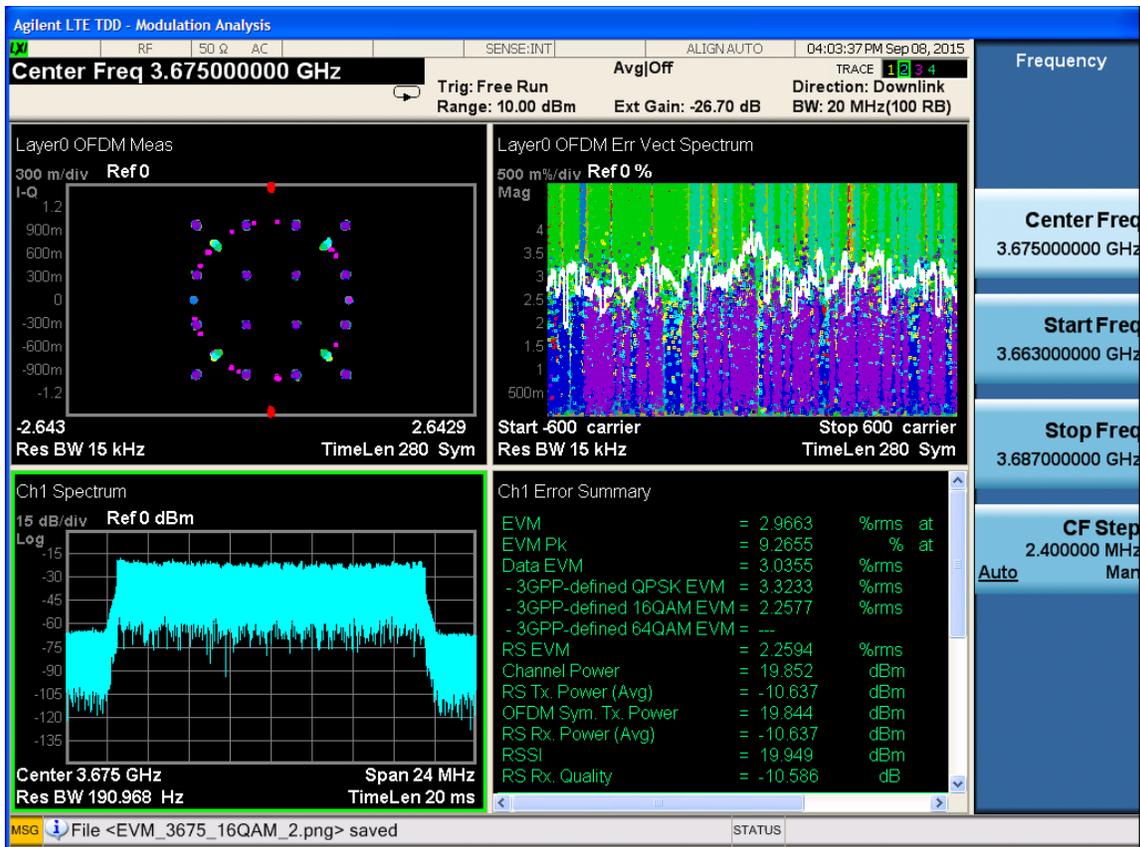


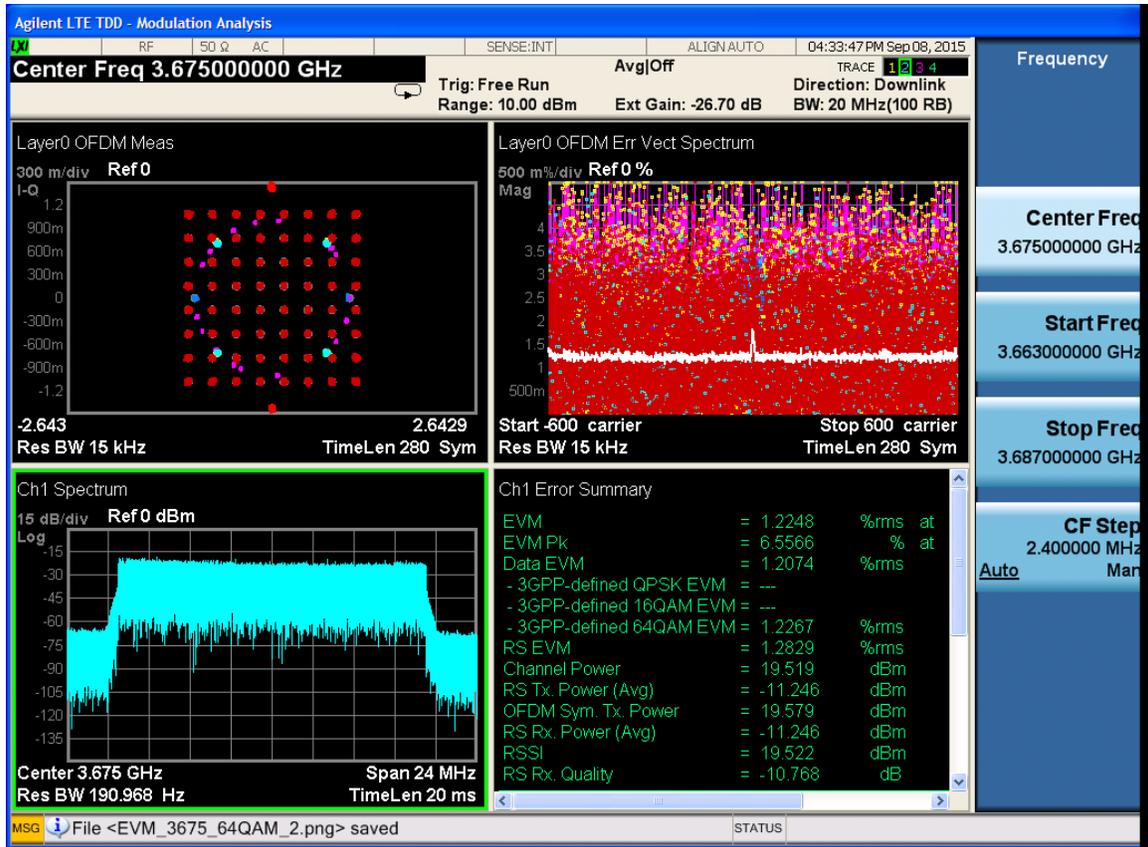


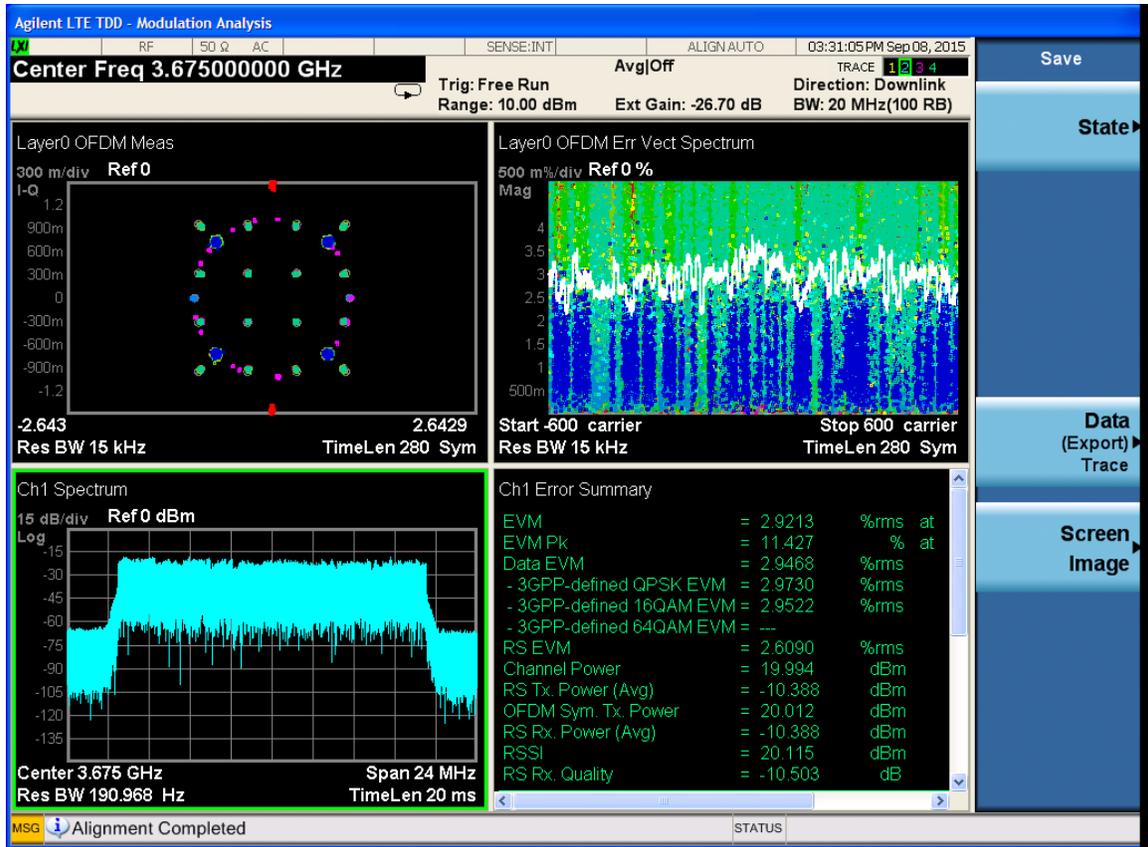


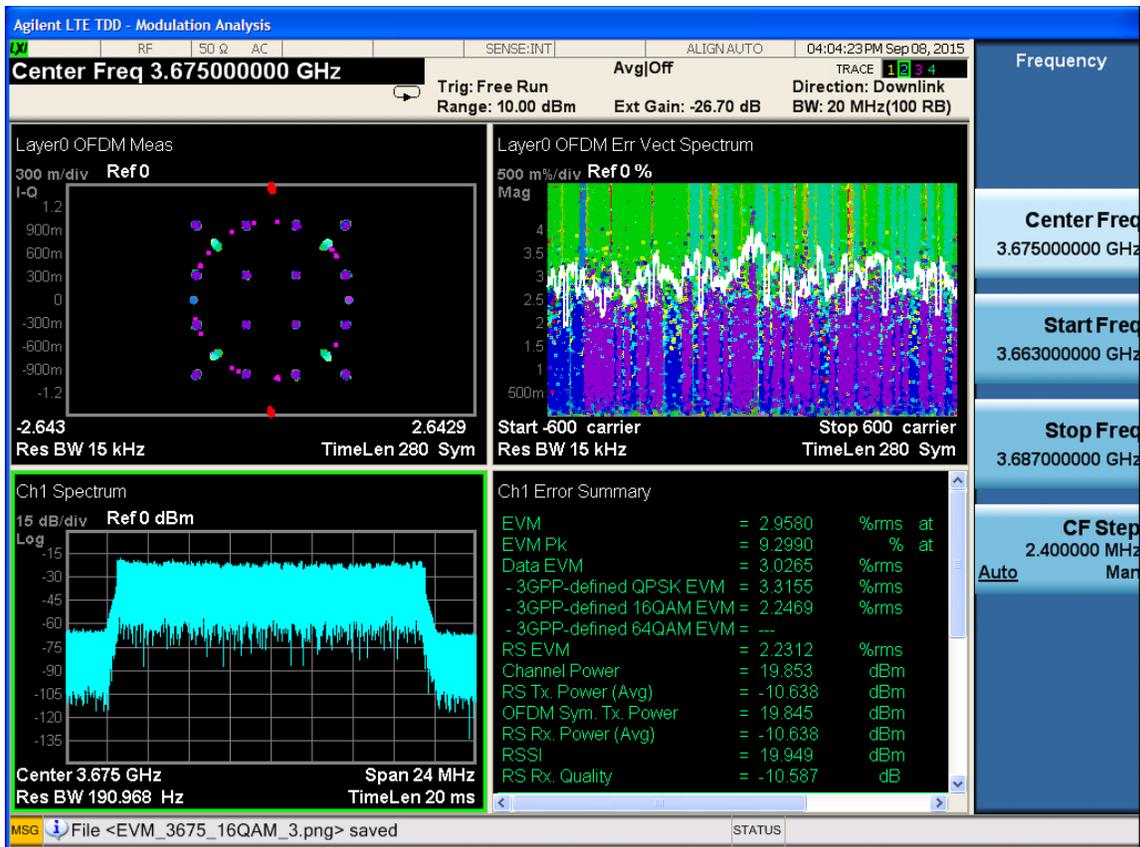


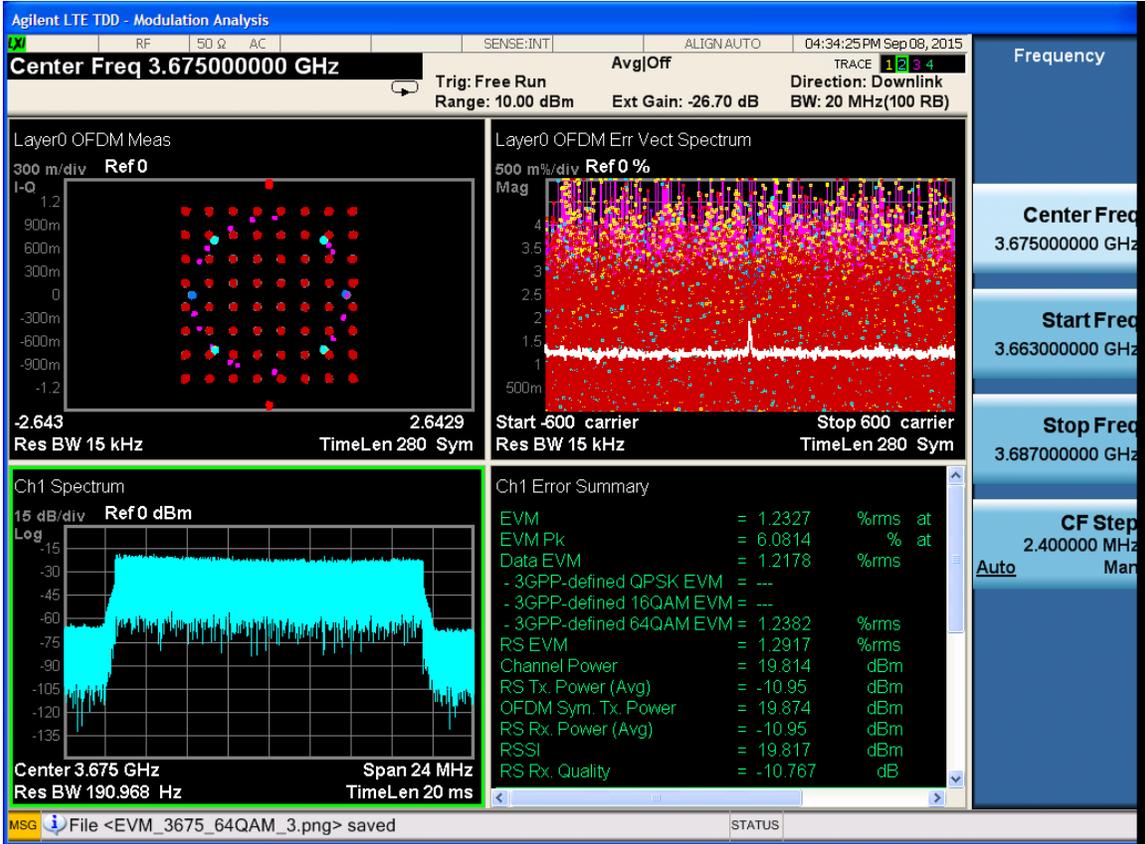


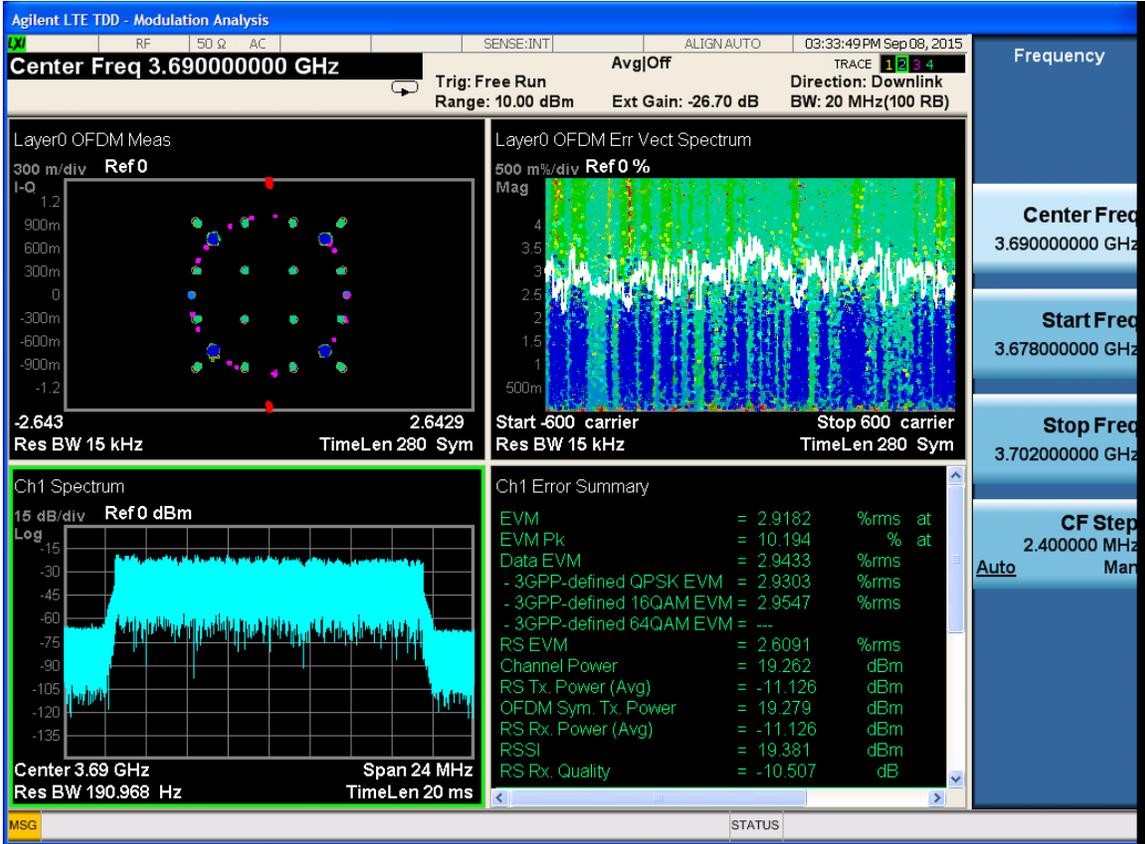


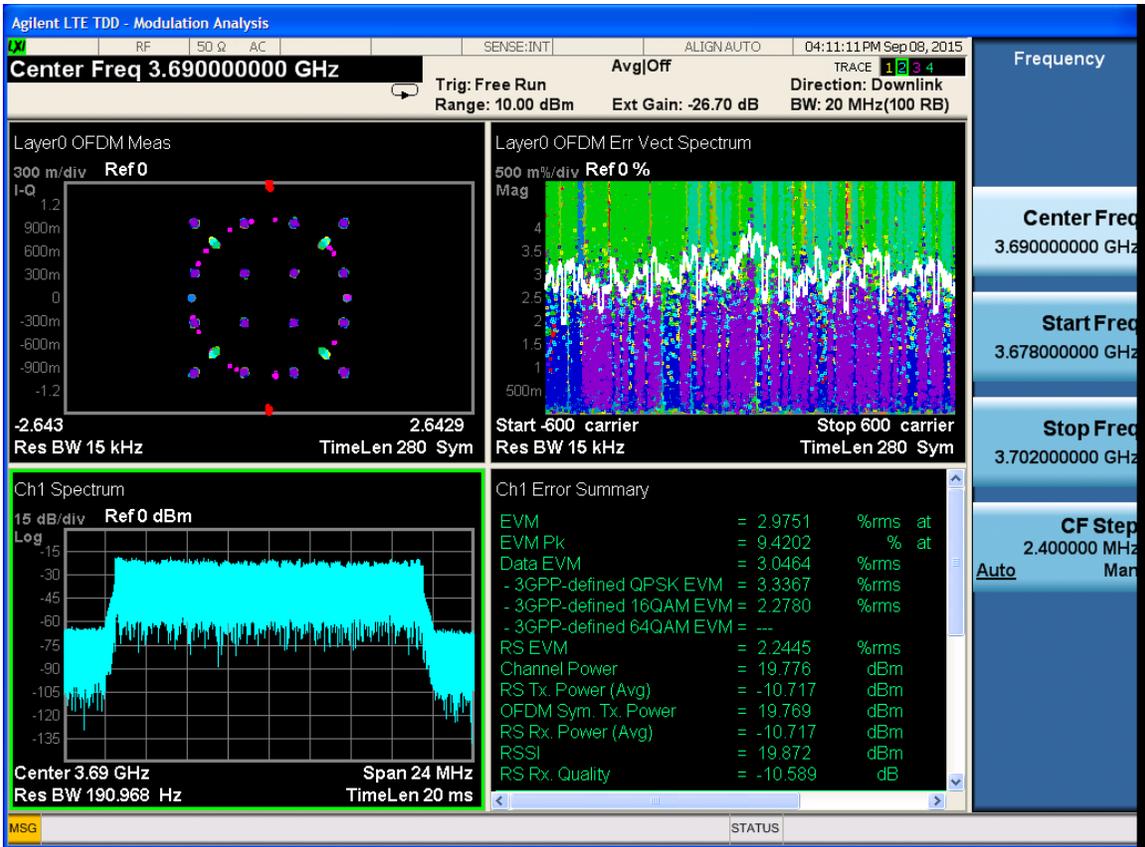


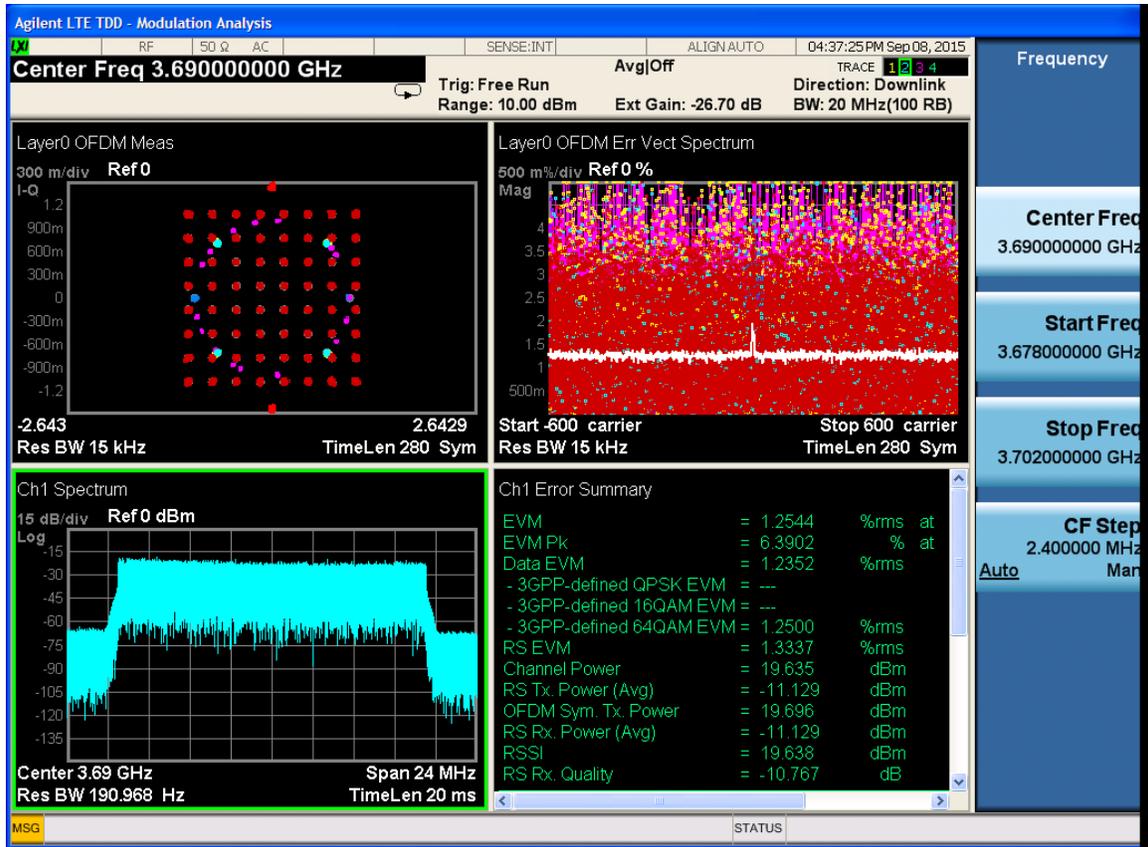


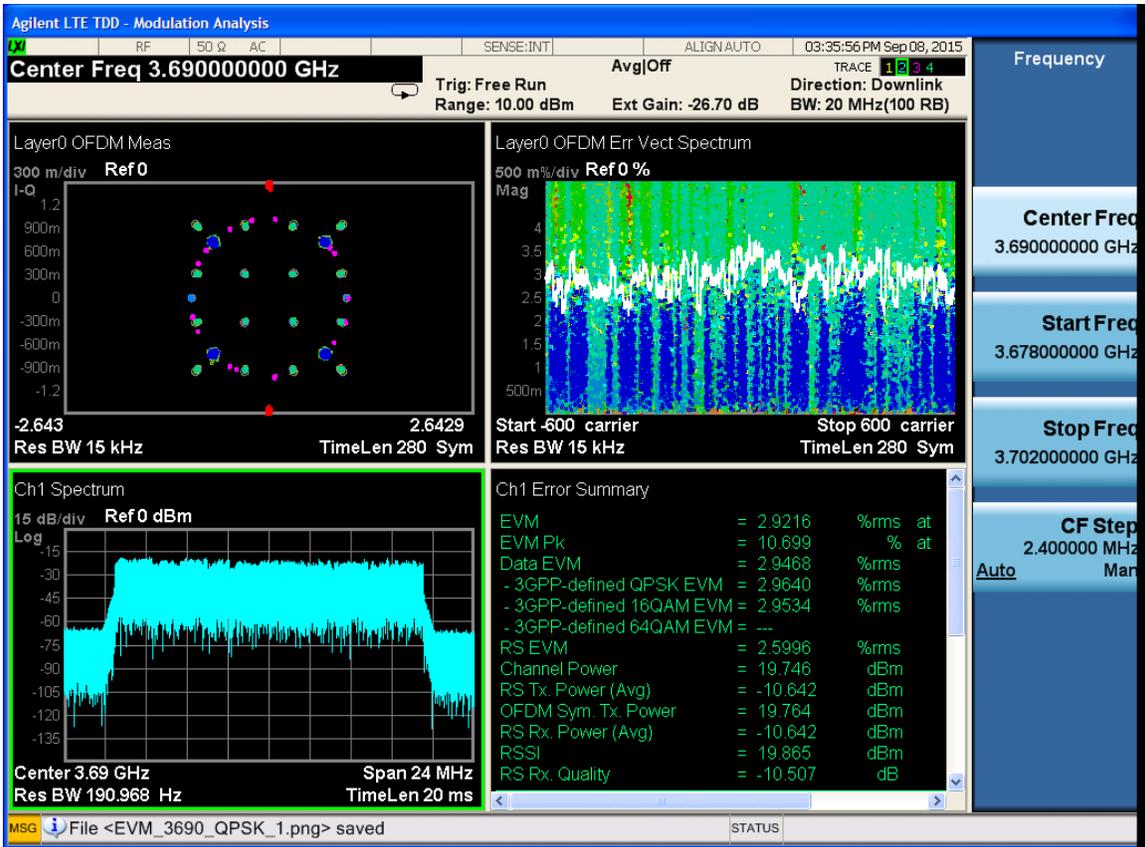


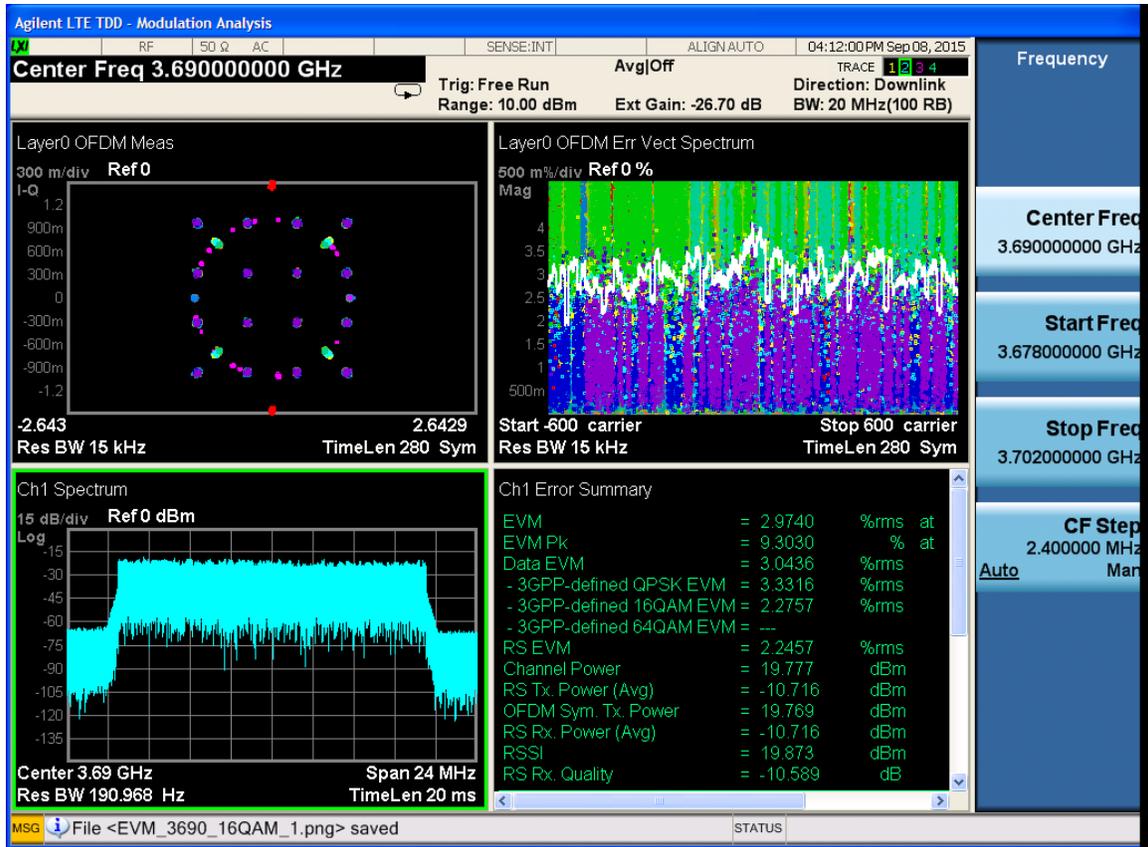


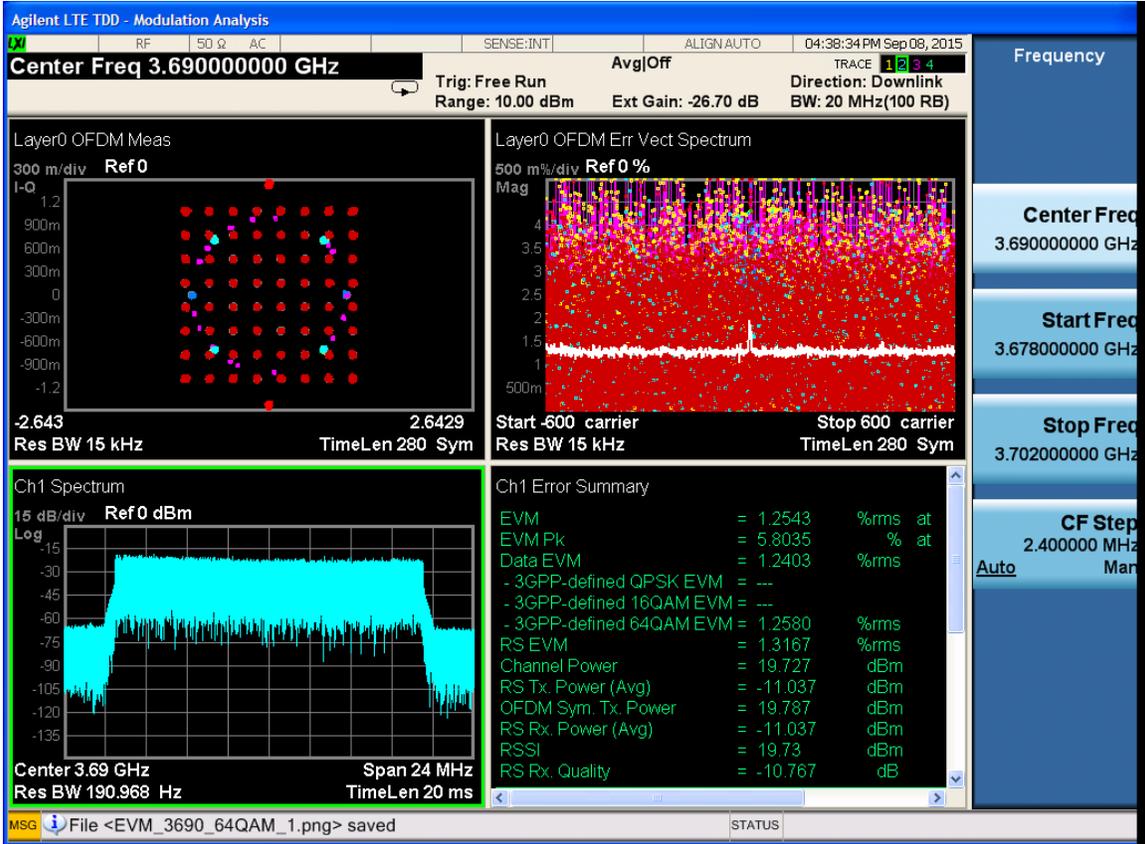


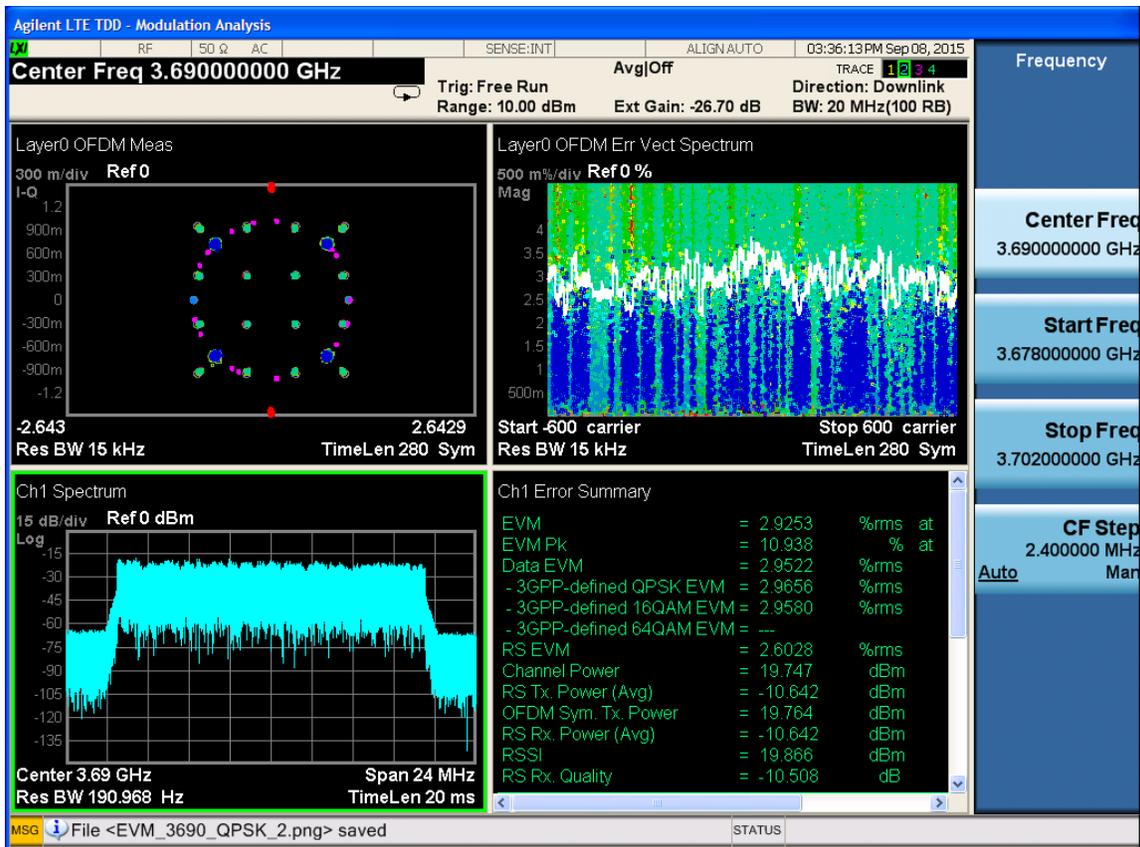


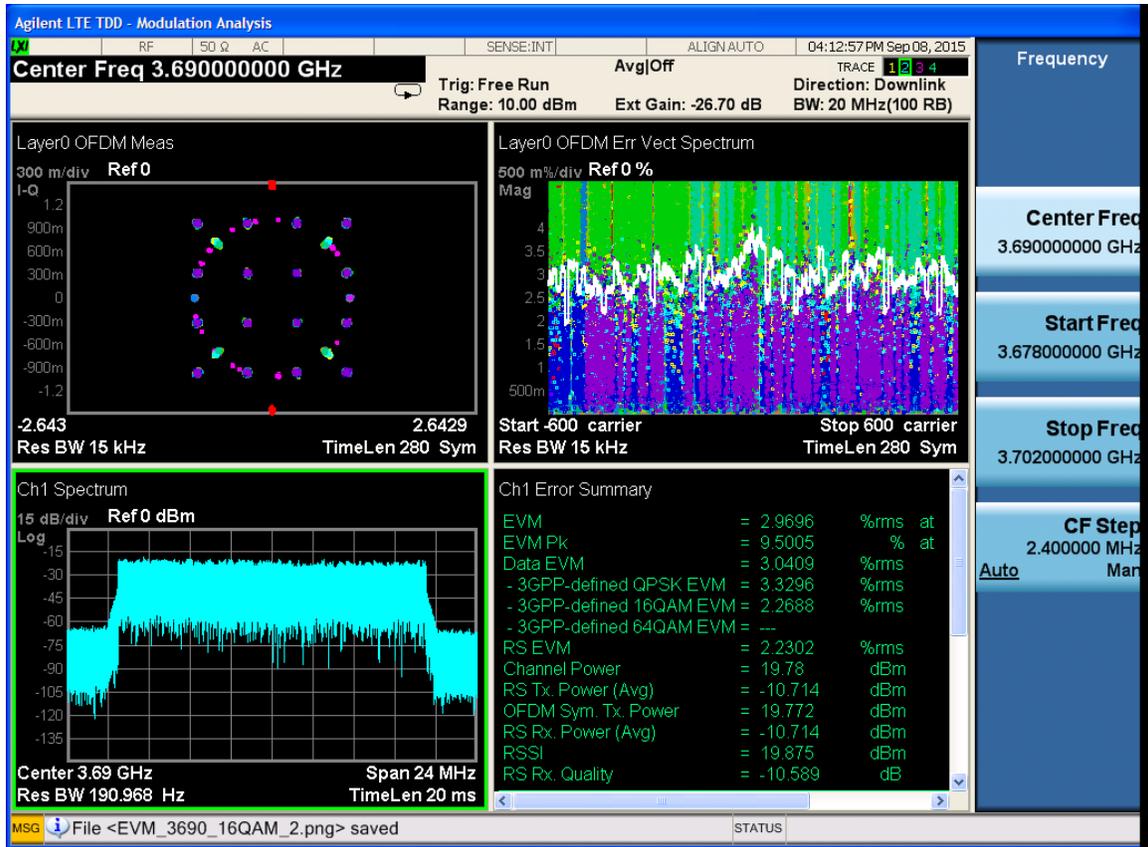


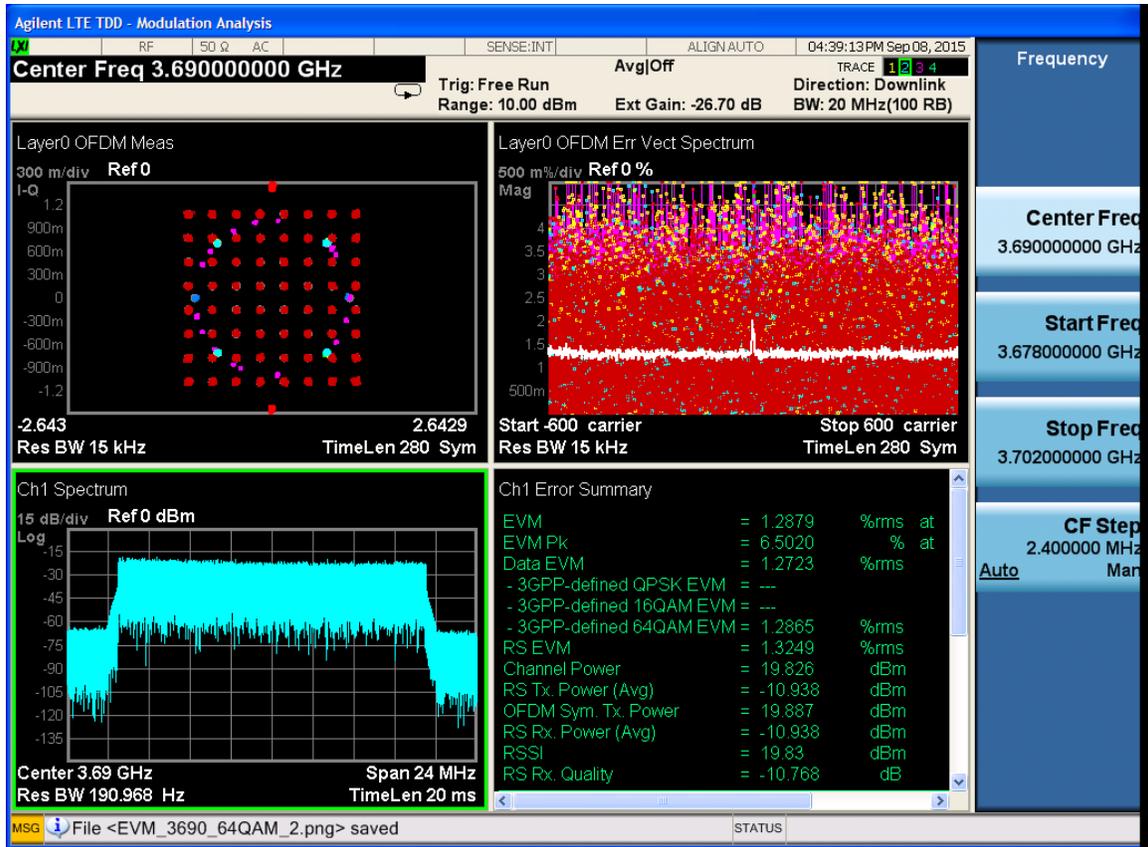


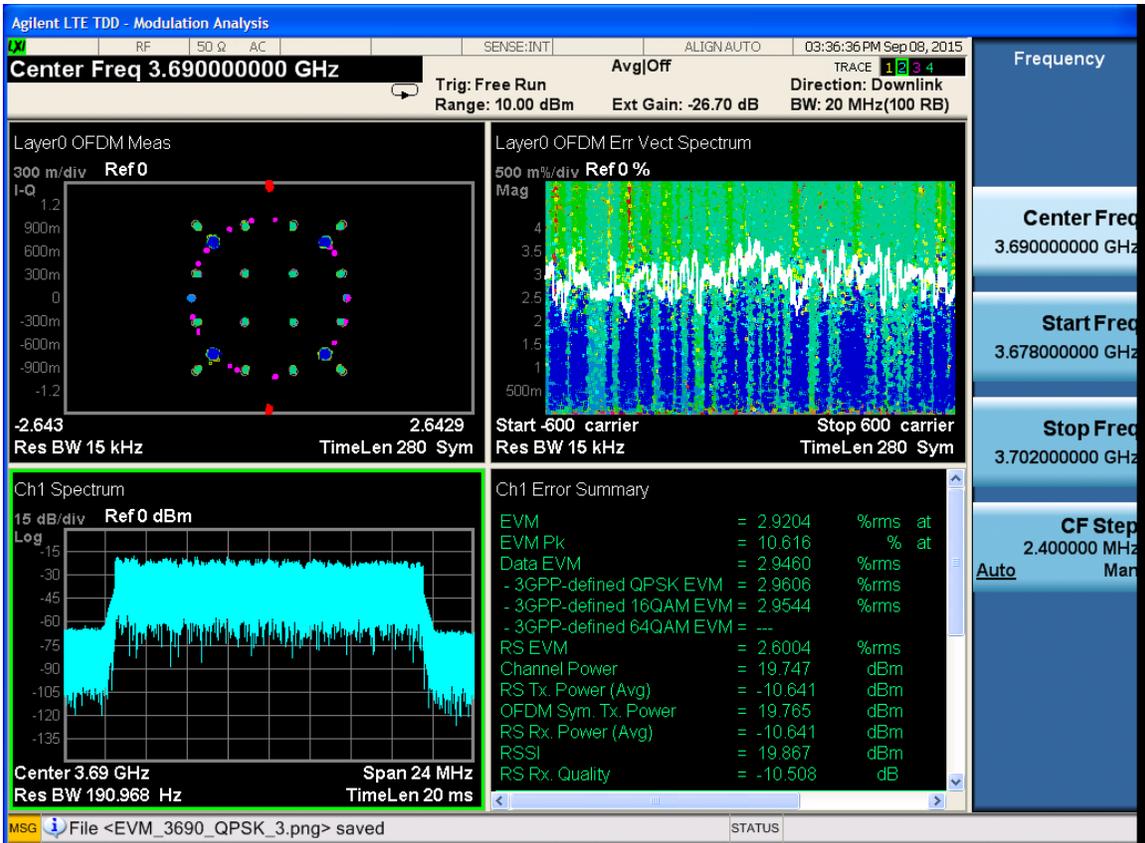




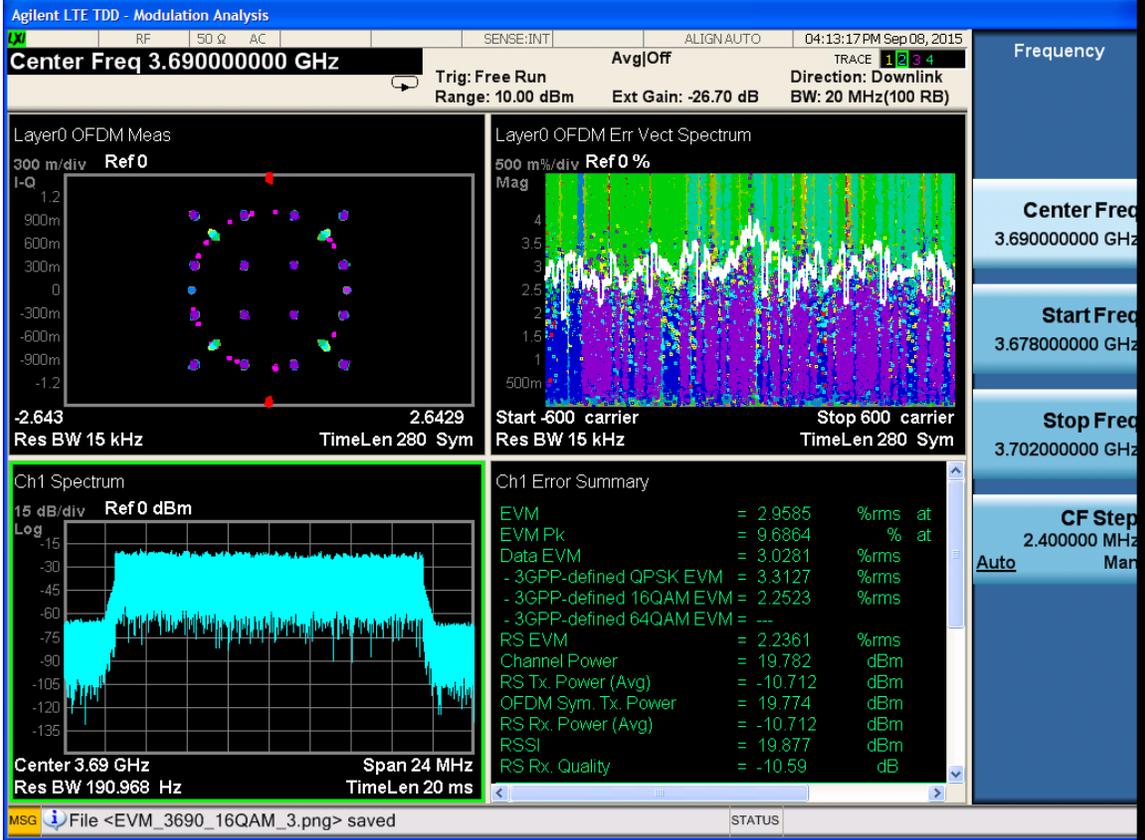








Frequency
Center Freq 3.69000000 GHz
Start Freq 3.678000000 GHz
Stop Freq 3.702000000 GHz
CF Step 2.400000 MHz
Auto Mar



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