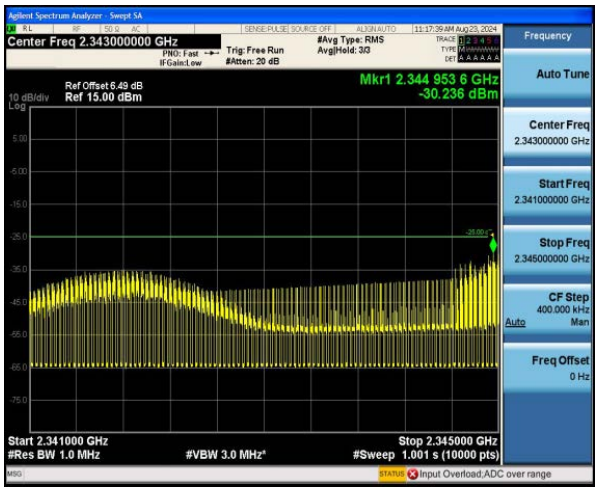
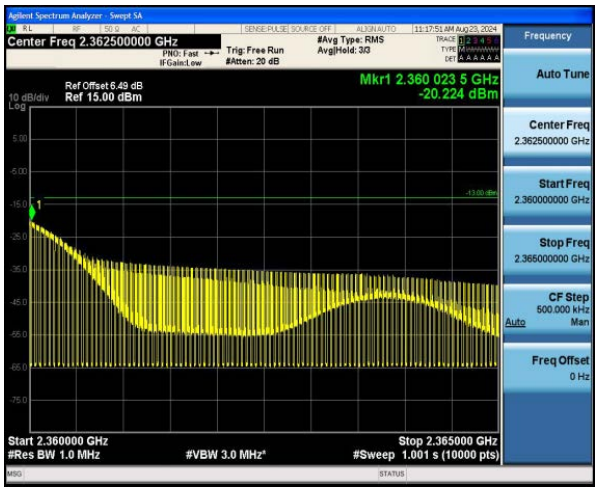


Band40-10MHz-QPSK-39200-1RB#0-Range12:2360~2365MHz

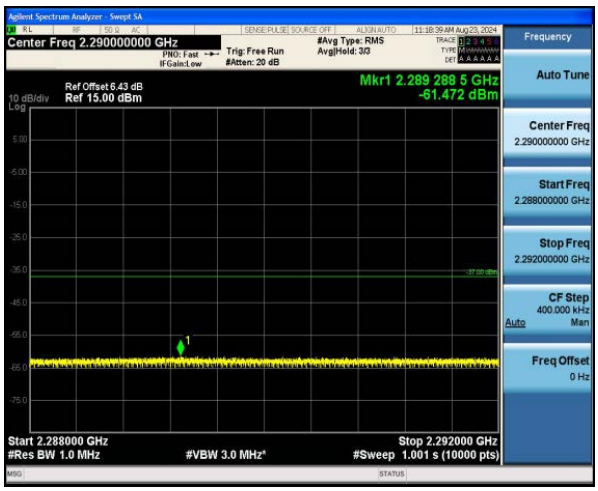


Band40-10MHz-QPSK-39200-1RB#0-Range13:2365~26500MHz

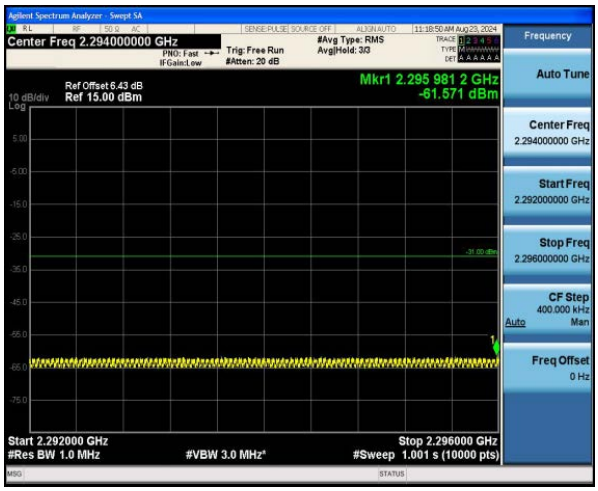
Band40-10MHz-16QAM-39200-1RB#0-Range1:30~1000MHz

Band40-10MHz-16QAM-39200-1RB#0-Range2:1000~2288MHz

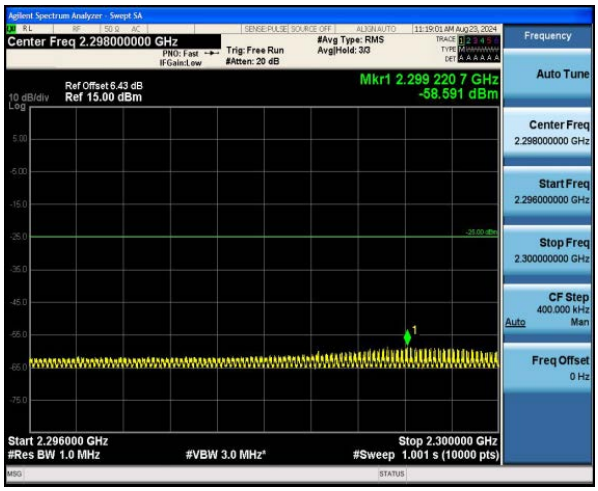
Band40-10MHz-16QAM-39200-1RB#0-Range3:2288~2292MHz



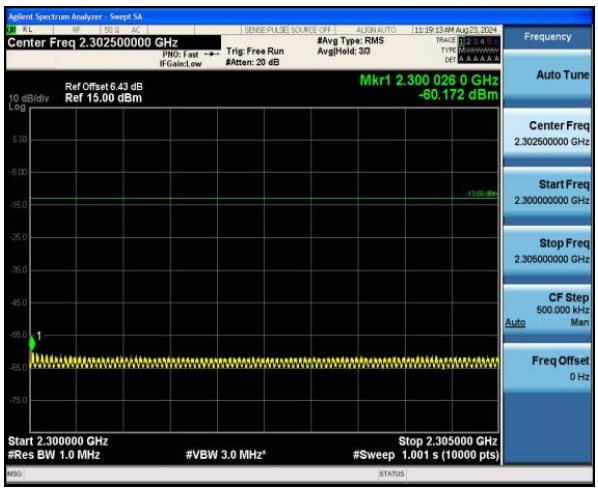
Band40-10MHz-16QAM-39200-1RB#0-Range4:2292~2296MHz



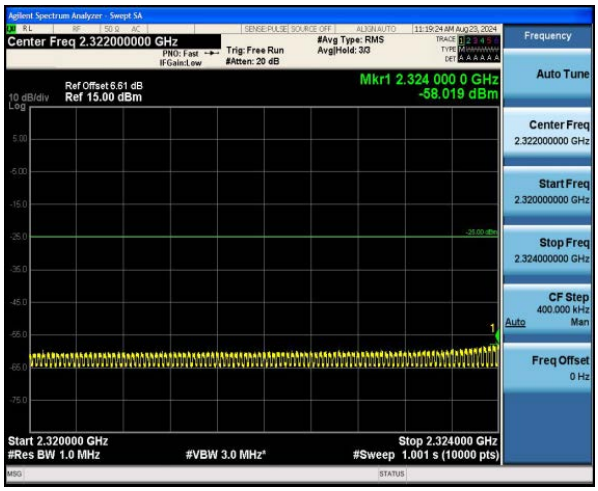
Band40-10MHz-16QAM-39200-1RB#0-Range5:2296~2300MHz



Band40-10MHz-16QAM-39200-1RB#0-Range6:2300~2305MHz

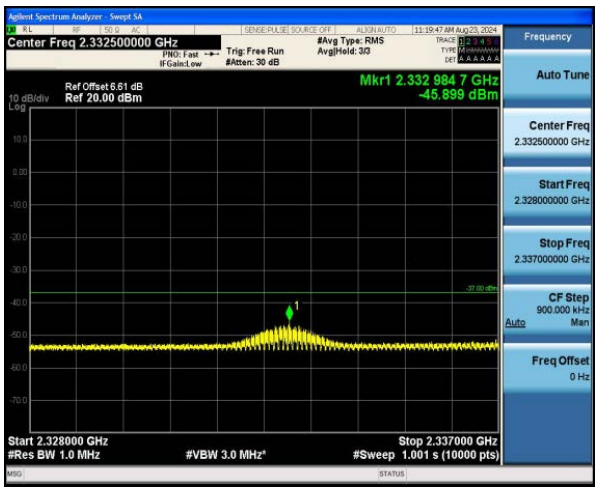


Band40-10MHz-16QAM-39200-1RB#0-Range7:2320~2324MHz

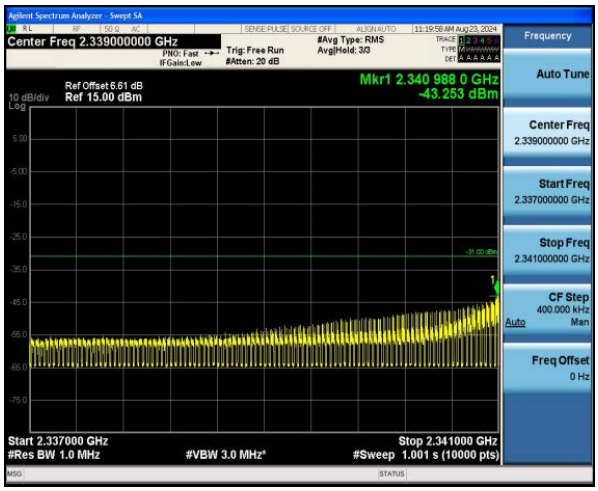


Band40-10MHz-16QAM-39200-1RB#0-Range8:2324~2328MHz

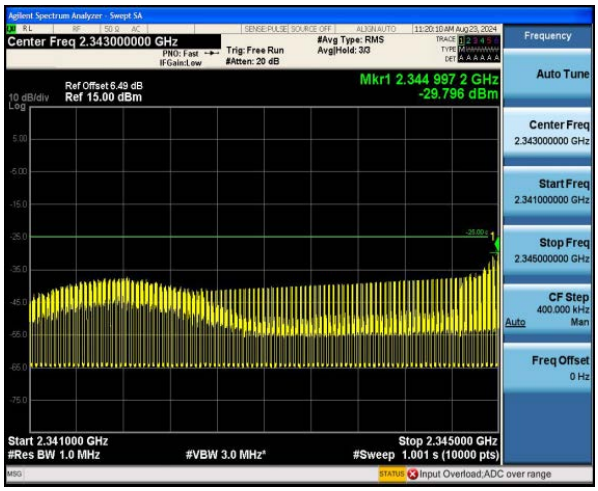
Band40-10MHz-16QAM-39200-1RB#0-Range9:2328~2337MHz



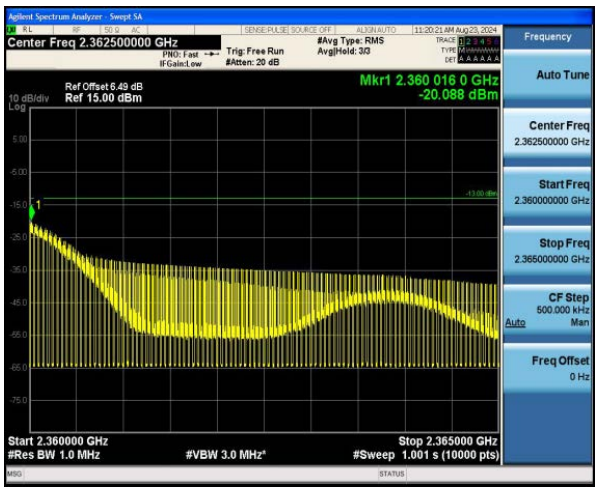
Band40-10MHz-16QAM-39200-1RB#0-Range10:2337~2341MHz



Band40-10MHz-16QAM-39200-1RB#0-Range11:2341~2345MHz



Band40-10MHz-16QAM-39200-1RB#0-Range12:2360~2365MHz



Band40-10MHz-16QAM-39200-1RB#0-Range13:2365~26500MHz

Agilent Spectrum Analyzer - Swept SA
Center Freq 14.432500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
#Avg Type: RMS
Avg|Hold: 3/3
04:35:10 PM Aug 23, 2024
Ref Offset 6.49 dB
10 dB/div
Ref 6.49 dBm
Mkr1 24.827 3 GHz
-56.250 dBm
Start 2.37 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.50 GHz
#Sweep 1.001 s (10000 pts)
Frequency
Auto Tune
Center Freq
14.432500000 GHz
Start Freq
2.365000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.413500000 GHz
Auto
Man
Freq Offset
0 Hz

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	VL	NT	35.59	0.015129	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VN	NT	17.34	0.007371	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VH	NT	46.75	0.019872	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VL	NT	10.87	0.004616	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VN	NT	8.65	0.003673	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VH	NT	13.59	0.005771	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VL	NT	27.95	0.011856	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VN	NT	12.56	0.005328	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VH	NT	25.08	0.010638	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VL	NT	10.60	0.004506	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VN	NT	4.21	0.001790	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VH	NT	26.68	0.011341	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VL	NT	11.73	0.004981	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VN	NT	8.45	0.003588	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VH	NT	24.98	0.010607	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VL	NT	6.88	0.002918	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VN	NT	11.09	0.004704	±2.5	PASS
Band4	5MHz	16QAM	39225	25RB#0	VH	NT	14.12	0.005989	±2.5	PASS

0										
Band40	10MHz	QPSK	39200	50RB#0	VL	NT	-9.46	-0.004017	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VN	NT	-14.33	-0.006085	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VH	NT	-9.66	-0.004102	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VL	NT	32.07	0.013618	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VN	NT	24.42	0.010369	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VH	NT	9.37	0.003979	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	NV	-30	43.22	0.018372	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	-20	48.87	0.020774	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	0	43.82	0.018627	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	10	45.28	0.019248	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	20	45.02	0.019137	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-30	12.57	0.005338	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-20	12.57	0.005338	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	0	8.47	0.003597	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	10	15.78	0.006701	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	20	13.28	0.005639	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-30	16.78	0.007118	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-20	14.25	0.006045	±2.5	PASS
Band4	5MHz	QPSK	39225	25RB#0	NV	0	21.16	0.008976	±2.5	PASS

0										
Band40	5MHz	QPSK	39225	25RB#0	NV	10	12.66	0.005370	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	20	11.54	0.004895	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-30	41.46	0.017624	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-20	48.18	0.020480	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	0	-18.93	-0.008047	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	10	-12.04	-0.005118	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	20	-6.22	-0.002644	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-30	44.39	0.018849	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-20	9.83	0.004174	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	0	29.37	0.012471	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	10	21.82	0.009265	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	20	27.35	0.011614	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-30	5.87	0.002490	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-20	12.90	0.005472	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	0	16.34	0.006931	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	10	29.48	0.012505	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	20	37.28	0.015813	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-30	10.43	0.004429	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-20	11.86	0.005036	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	0	12.93	0.005490	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	10	23.72	0.010072	±2.5	PASS

Band40	10MHz	QPSK	39200	50RB#0	NV	20	23.55	0.010000	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-30	37.98	0.016127	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-20	33.49	0.014221	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	0	49.70	0.021104	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	10	13.23	0.005618	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	20	21.84	0.009274	±2.5	PASS

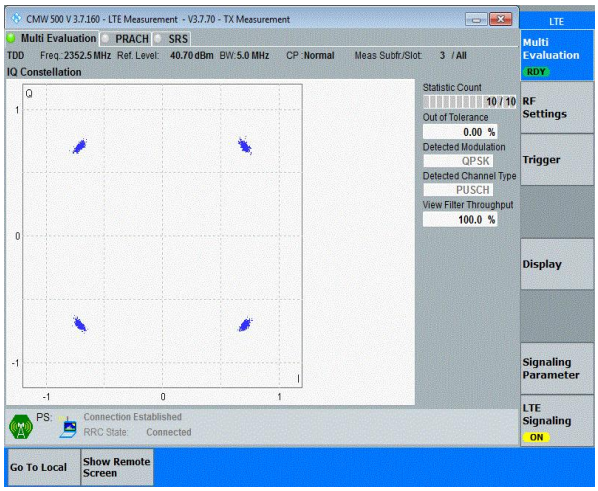
Appendix G: Modulation Characteristics

Test Result

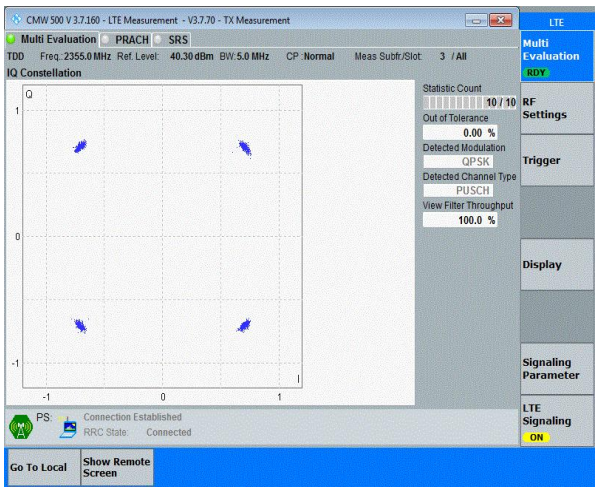
Band	Channel	Result	Verdict
Band40	39175	PASS	PASS
Band40	39200	PASS	PASS
Band40	39225	PASS	PASS
Band40	39175	PASS	PASS
Band40	39200	PASS	PASS
Band40	39225	PASS	PASS
Band40	39200	PASS	PASS
Band40	39200	PASS	PASS

Test Graphs

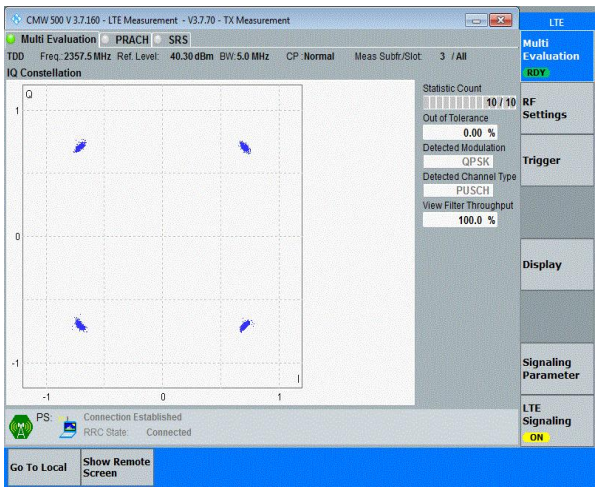
Band40-5MHz-QPSK-39175-25RB#0



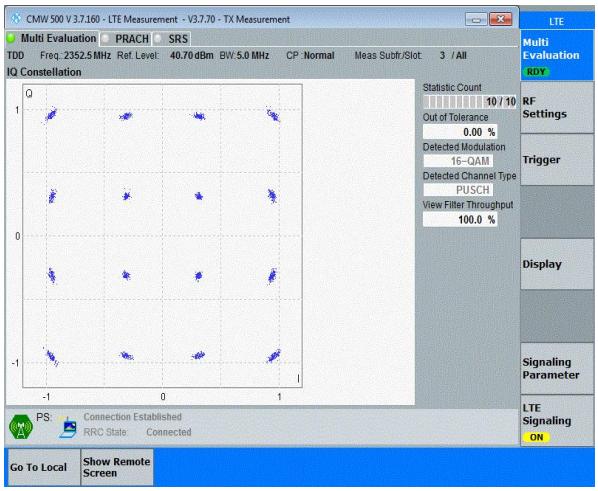
Band40-5MHz-QPSK-39200-25RB#0



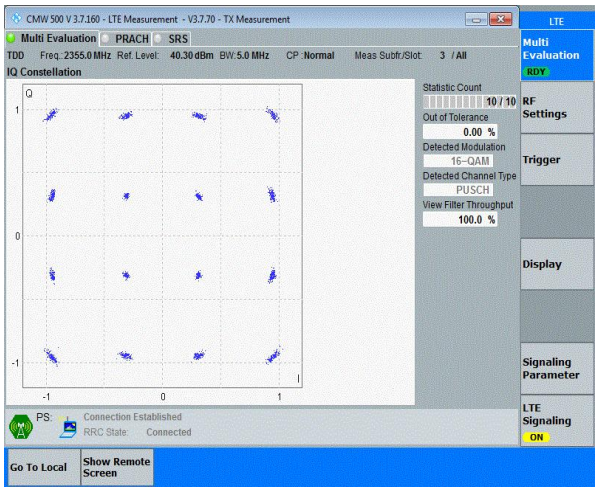
Band40-5MHz-QPSK-39225-25RB#0



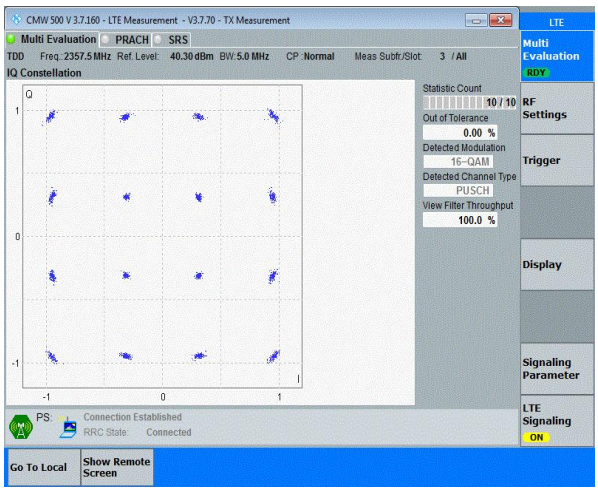
Band40-5MHz-16QAM-39175-25RB#0



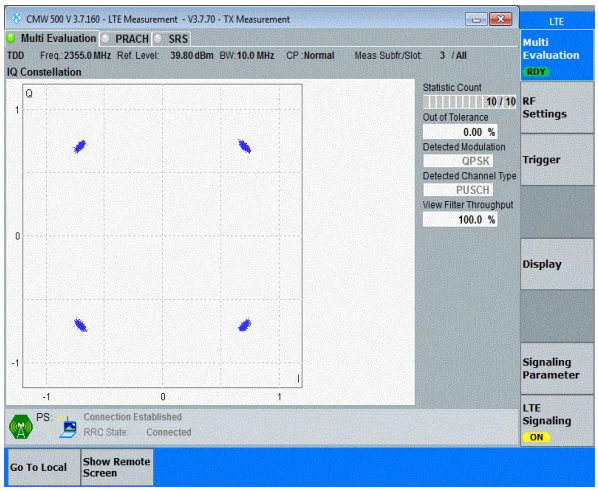
Band40-5MHz-16QAM-39200-25RB#0



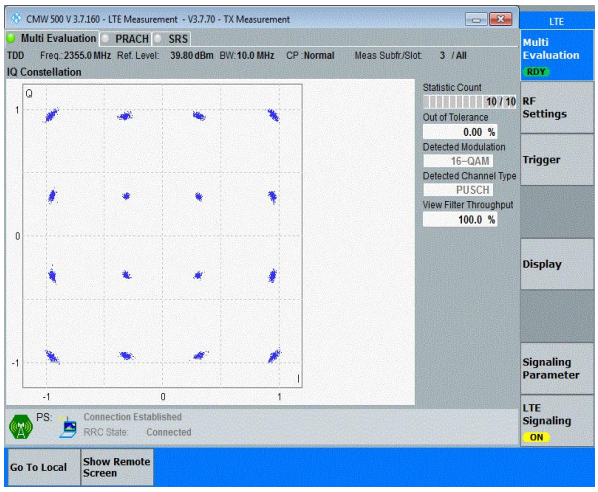
Band40-5MHz-16QAM-39225-25RB#0



Band40-10MHz-QPSK-39200-50RB#0



Band40-10MHz-16QAM-39200-50RB#0



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