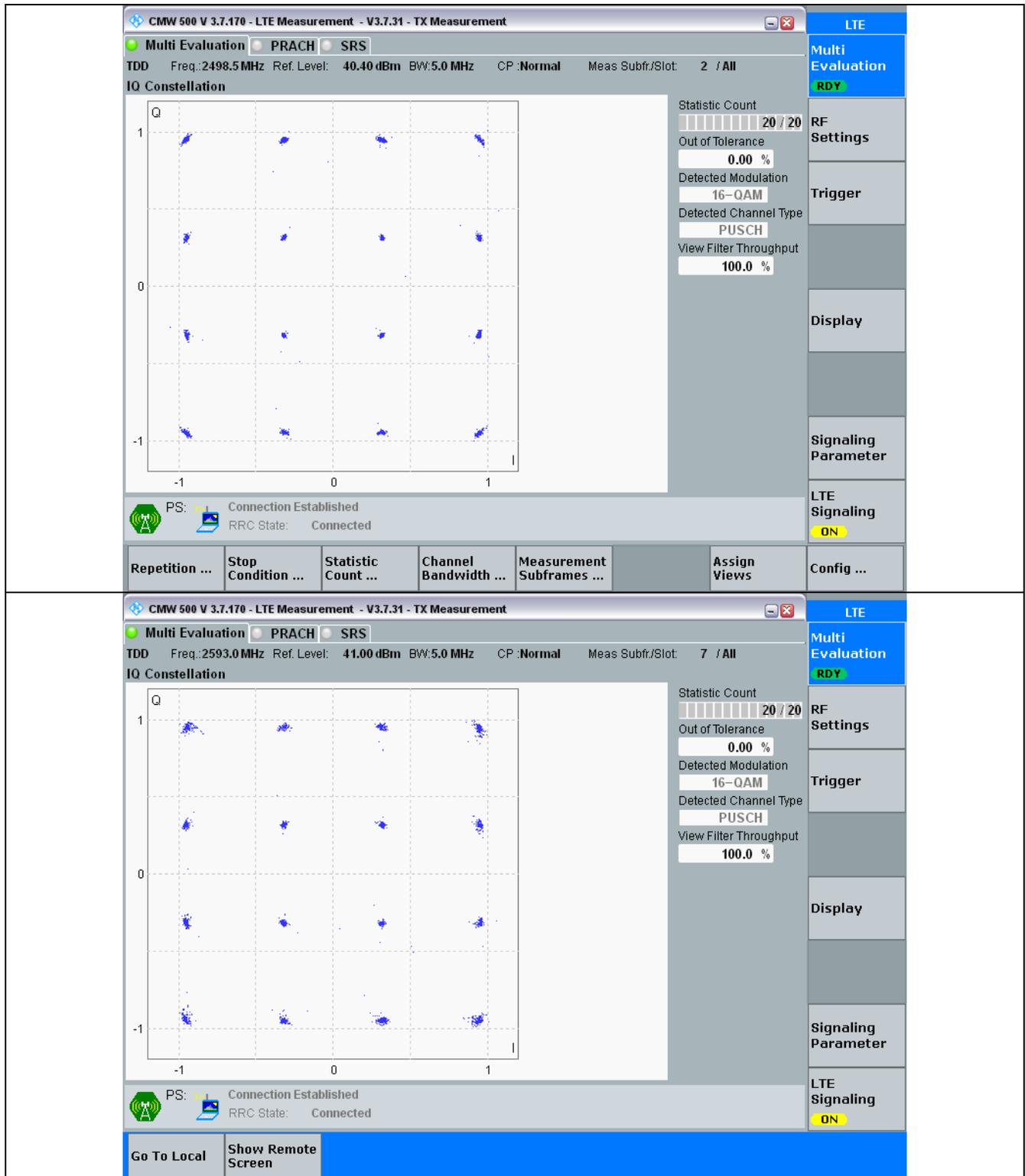


6. Modulation Characteristics

6.1 Test Graph



CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2687.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 3 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 16-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2498.5 MHz Ref. Level: 40.40 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 7 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2687.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2498.5 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 64-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 64-QAM

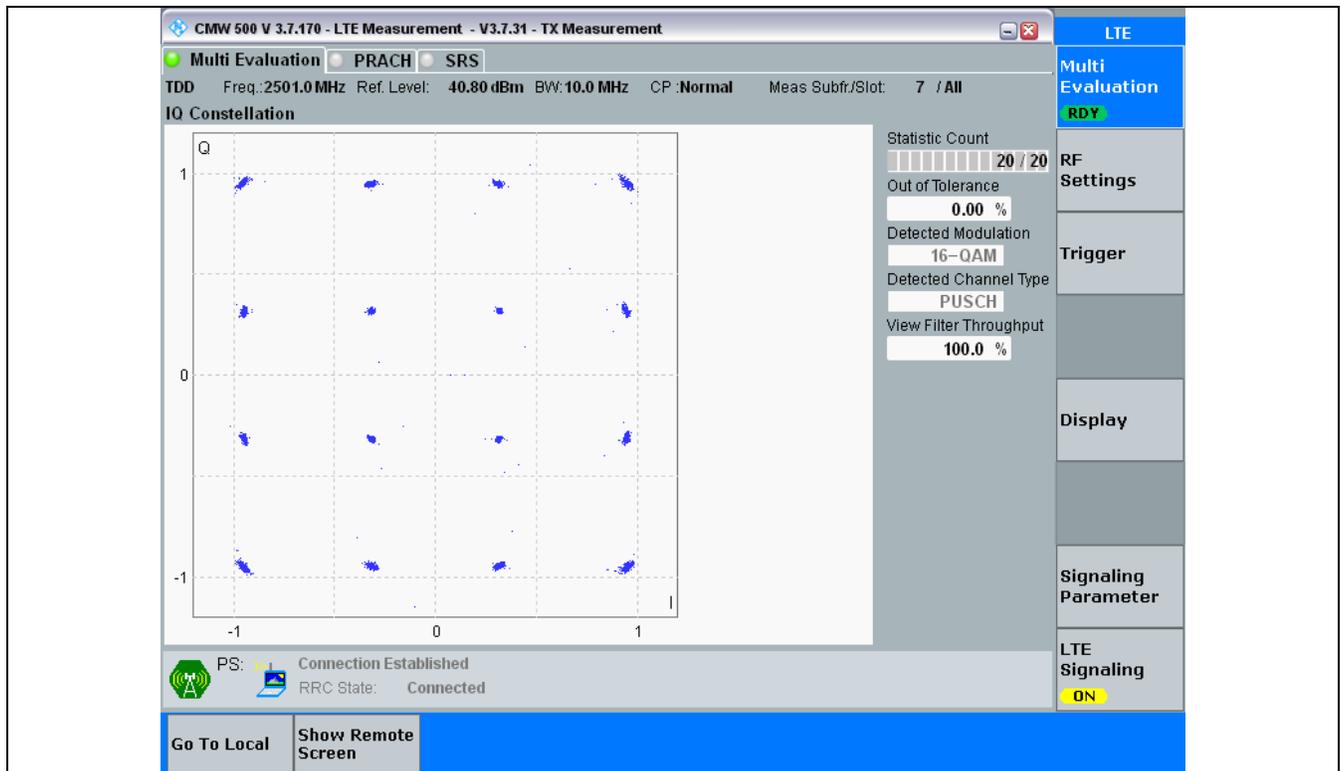
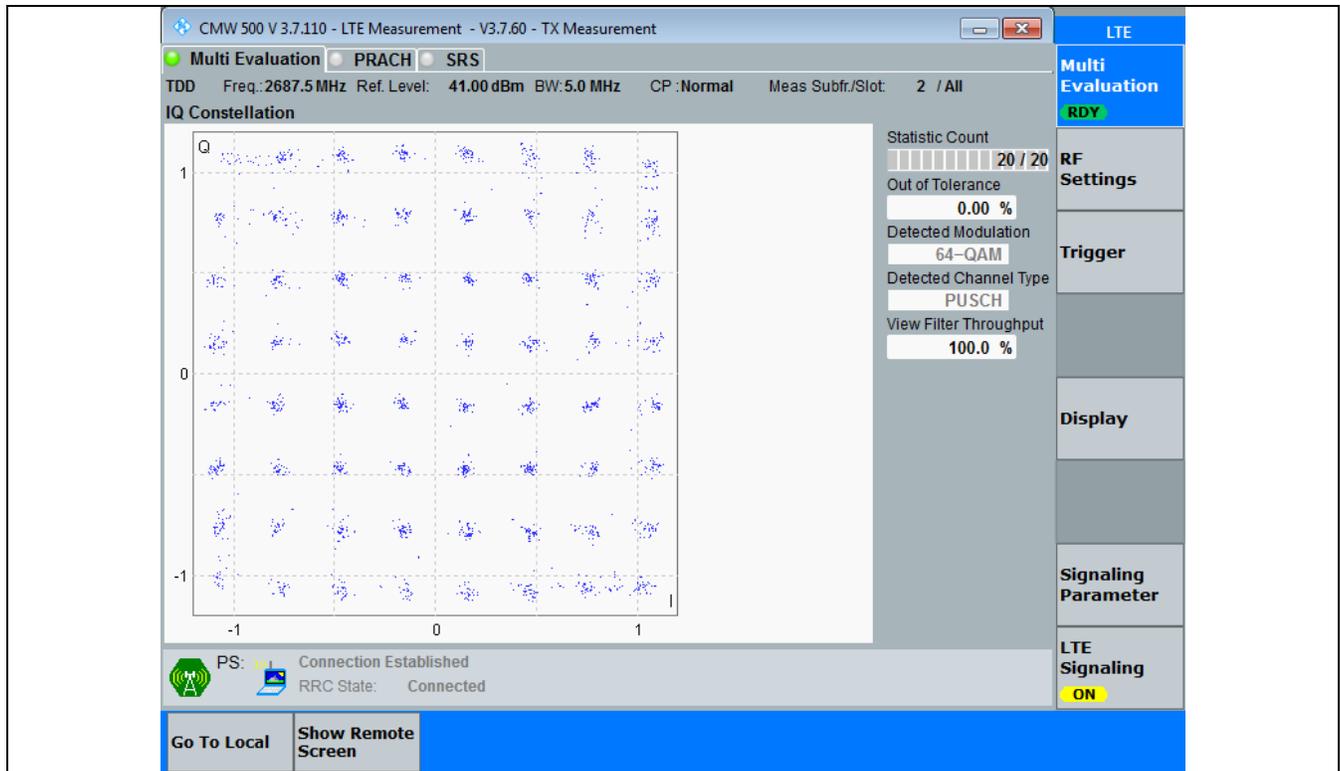
Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling ON



CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 7 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2685.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

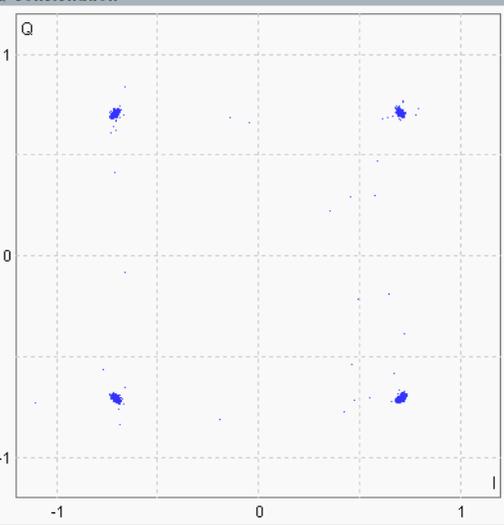
LTE Multi Evaluation RDY RF Settings Trigger Display Signaling Parameter LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2501.0 MHz Ref. Level: 40.90 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

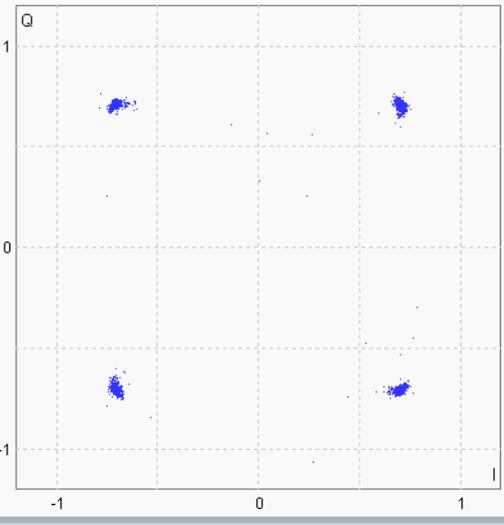
LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation

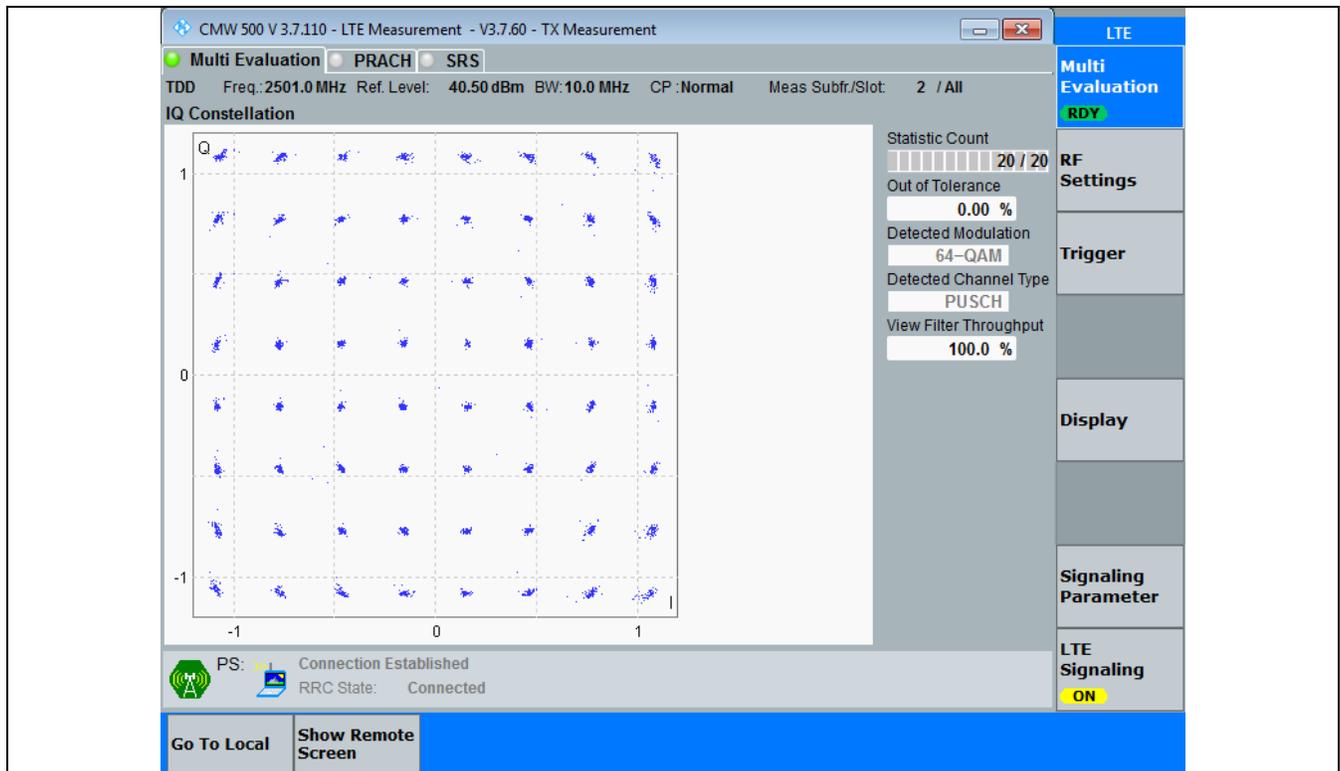
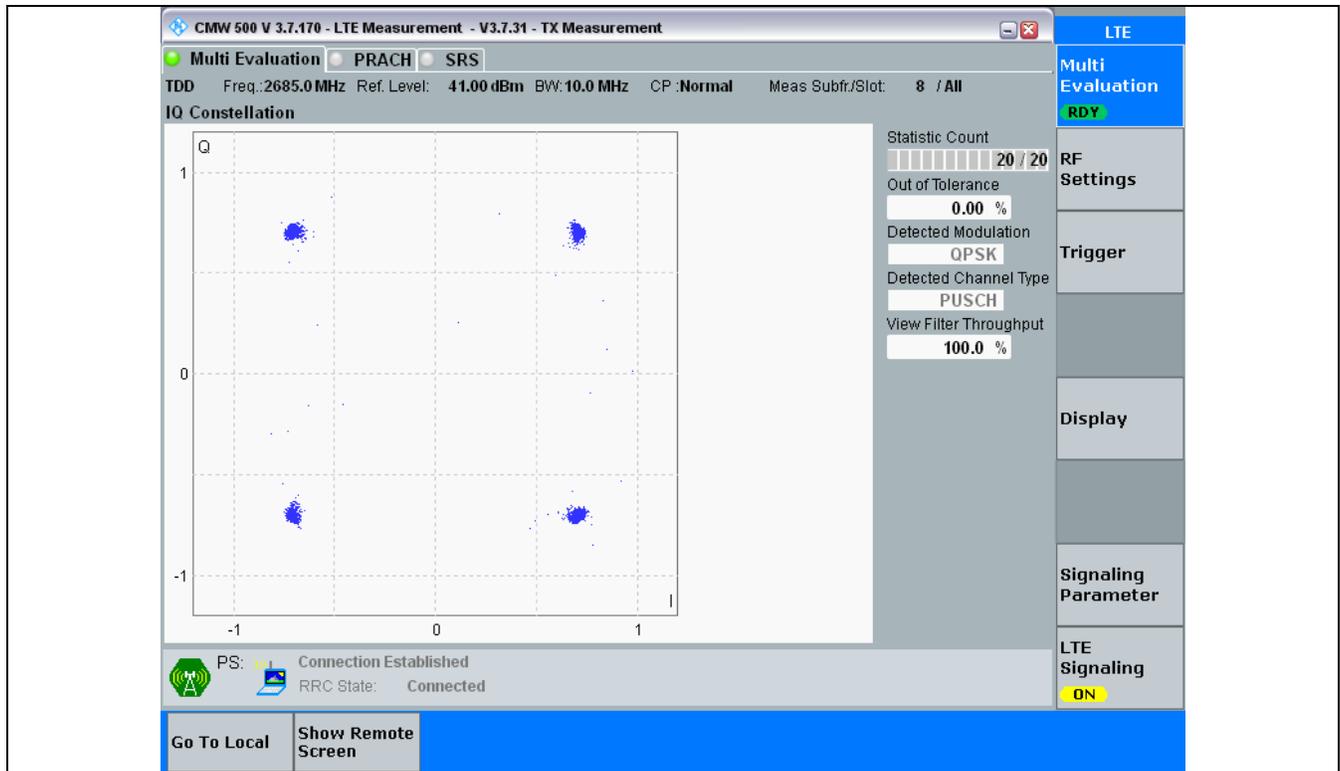


Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON



CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2685.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2503.5 MHz Ref. Level: 40.40 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established RRC State: Connected

Go To Local Show Remote Screen

LTE Multi Evaluation RDY

RF Settings

Trigger

Display

Signaling Parameter

LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2682.5 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 7 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 16-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2503.5 MHz Ref. Level: 40.40 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 3 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2682.5 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

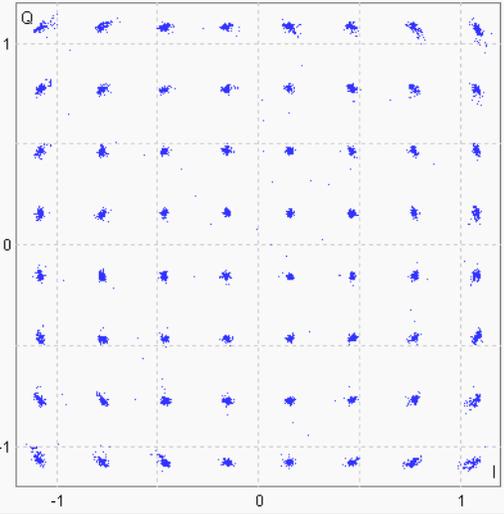
LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2503.5 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 7 / All

IQ Constellation



Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

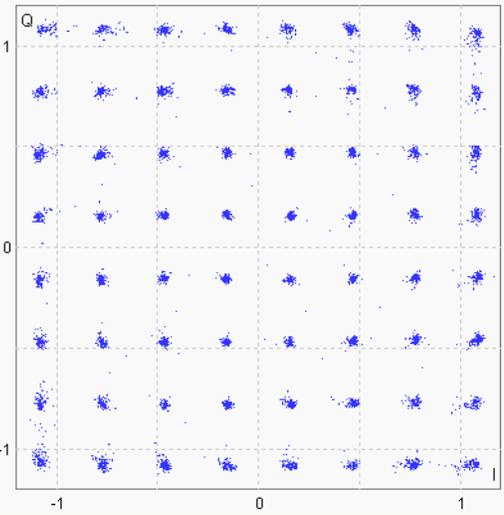
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 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 15.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

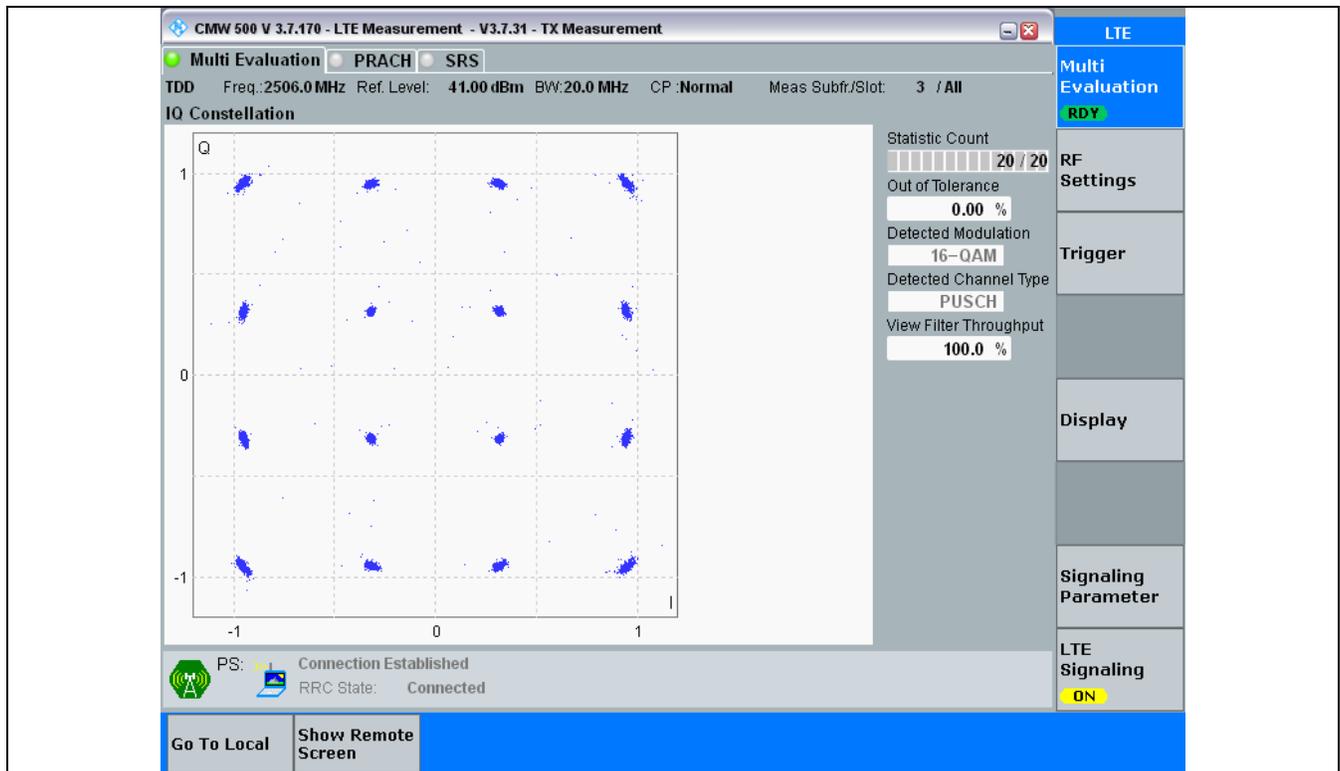
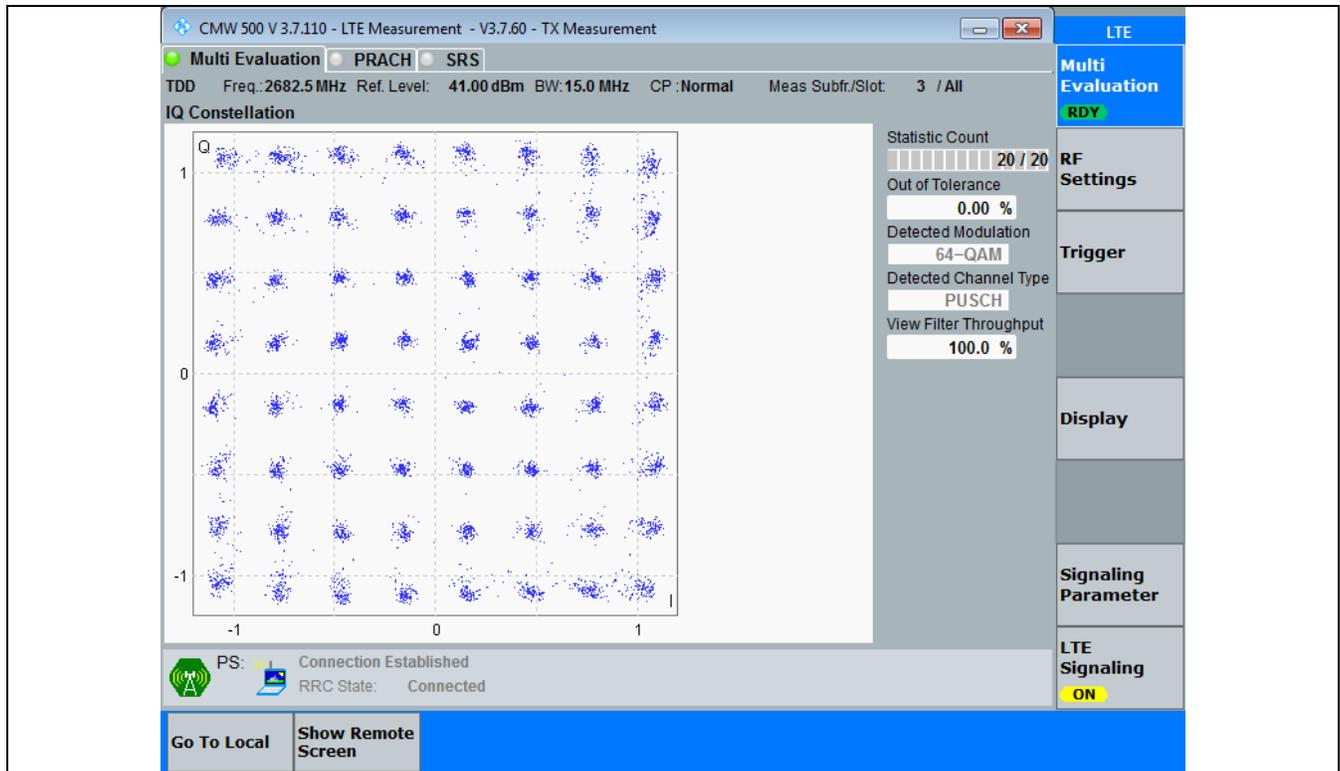


Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON



CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established
RRC State: Connected

Go To Local Show Remote Screen

LTE
Multi Evaluation RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2680.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 2 / All

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 16-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

PS: Connection Established
RRC State: Connected

Go To Local Show Remote Screen

LTE
Multi Evaluation RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2506.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 2 / All

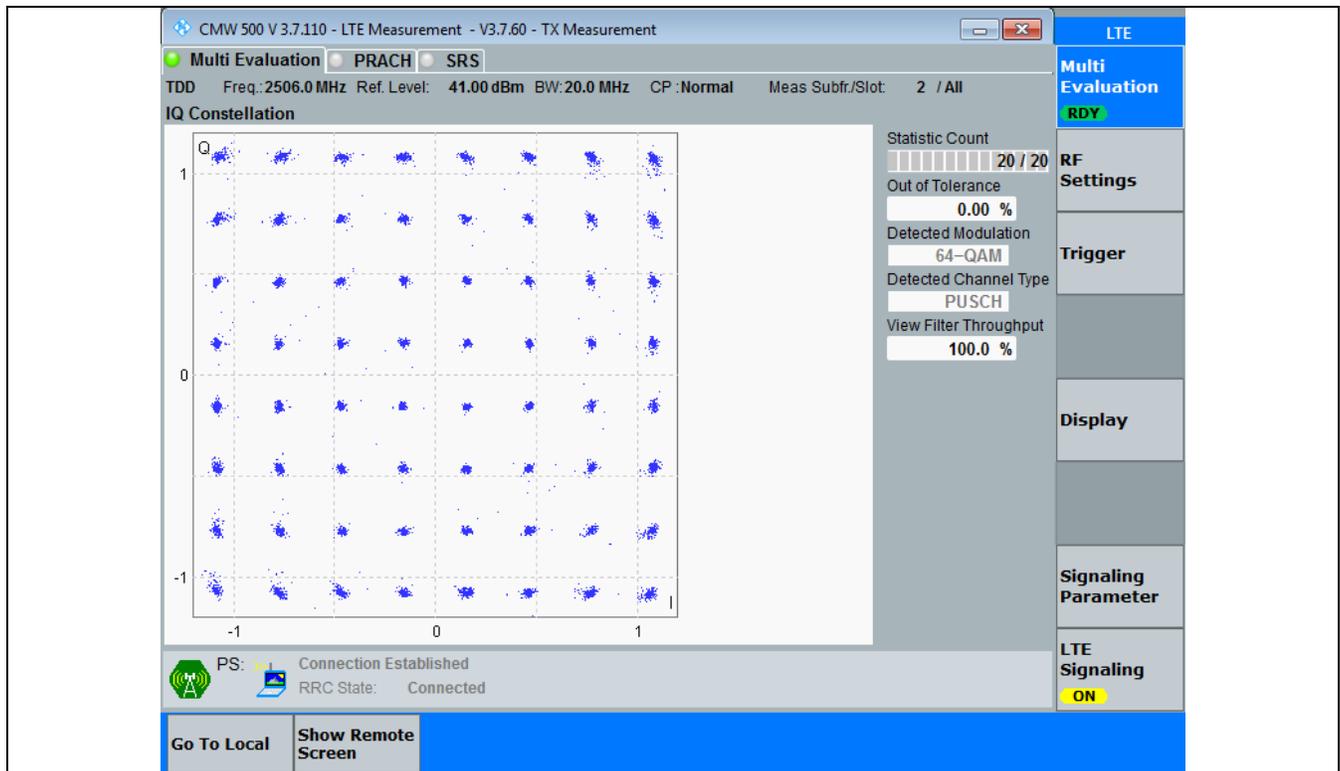
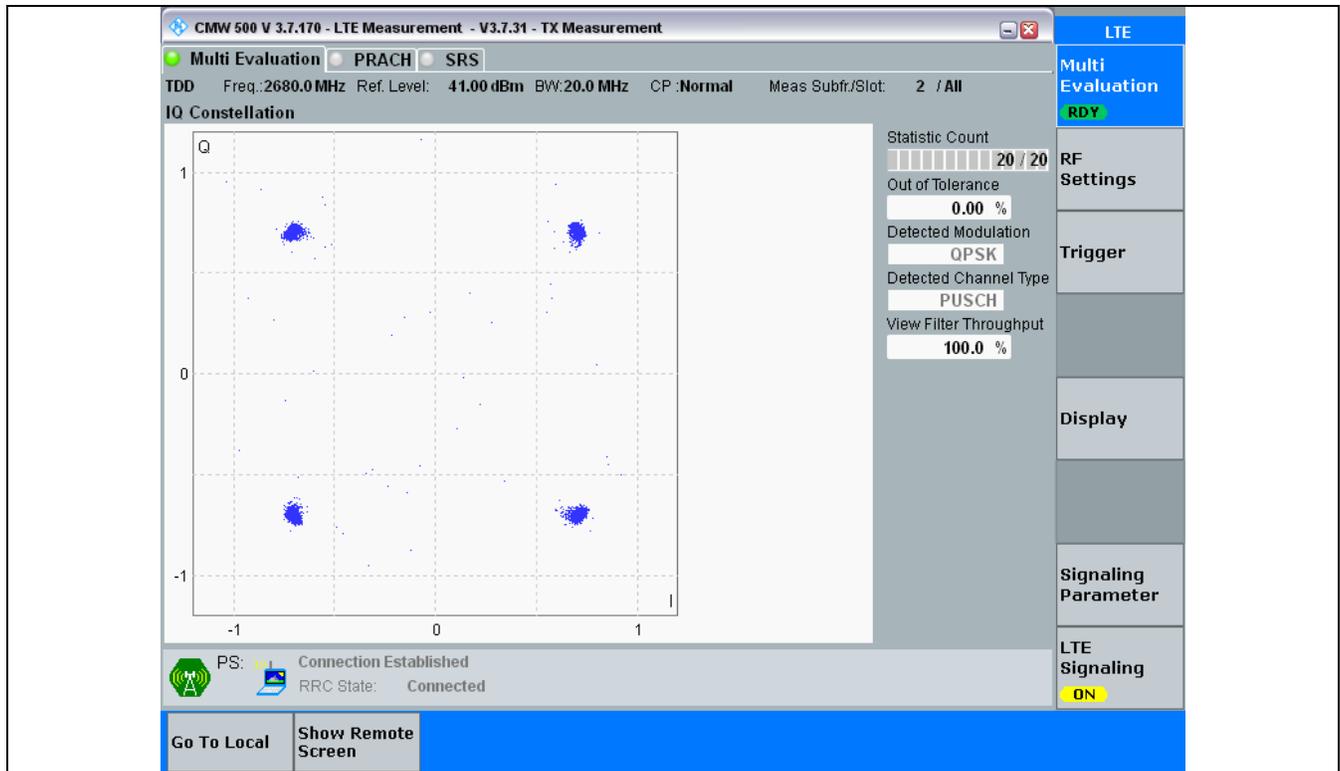
IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: QPSK
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON



CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2593.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 8 / All

IQ Constellation

Statistic Count: 20 / 20
 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

CMW 500 V 3.7.110 - LTE Measurement - V3.7.60 - TX Measurement

Multi Evaluation PRACH SRS

TDD Freq.: 2680.0 MHz Ref. Level: 41.00 dBm BW: 20.0 MHz CP: Normal Meas Subfr/Slot: 7 / All

IQ Constellation

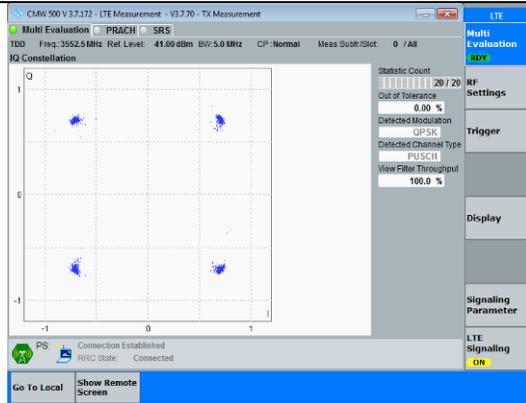
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 Out of Tolerance: 0.00 %
 Detected Modulation: 64-QAM
 Detected Channel Type: PUSCH
 View Filter Throughput: 100.0 %

PS: Connection Established
 RRC State: Connected

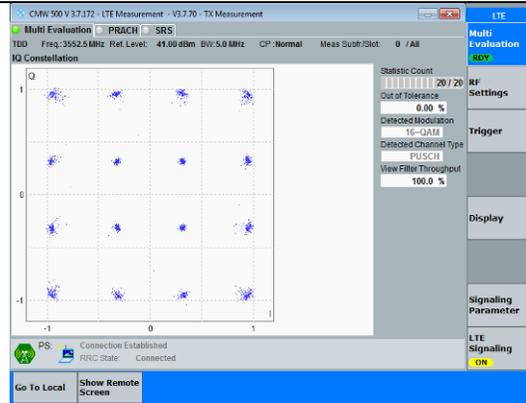
Go To Local Show Remote Screen

LTE
 Multi Evaluation RDY
 RF Settings
 Trigger
 Display
 Signaling Parameter
 LTE Signaling ON

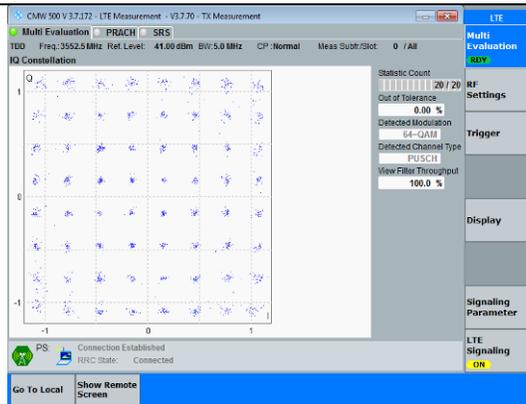
B48-5M-IQ-L-QPSK



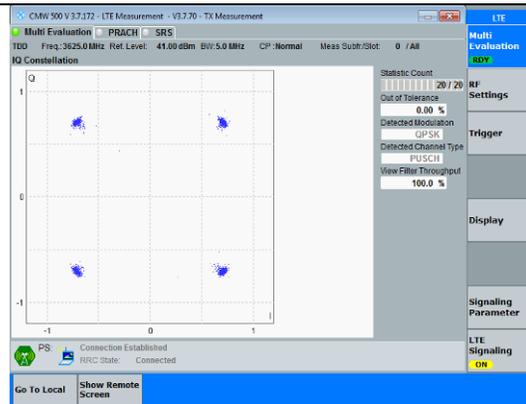
B48-5M-IQ-L-Q16



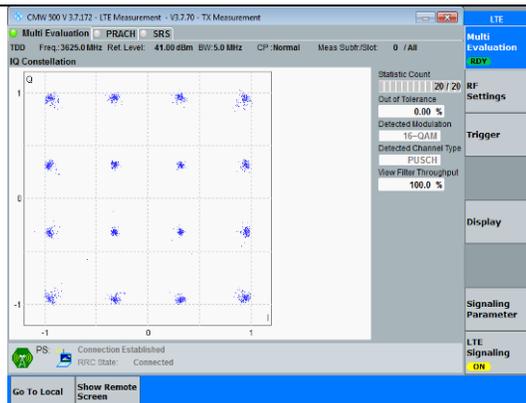
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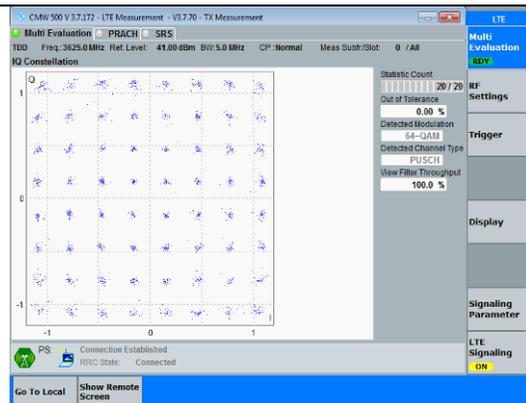
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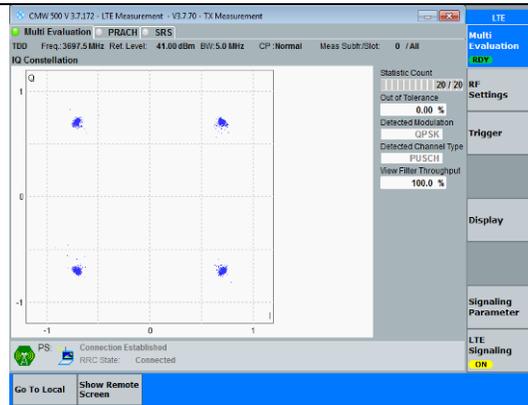
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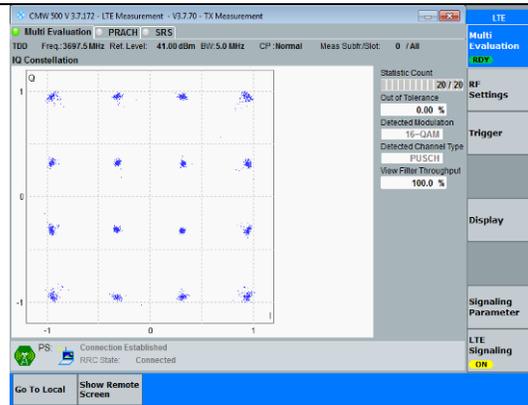
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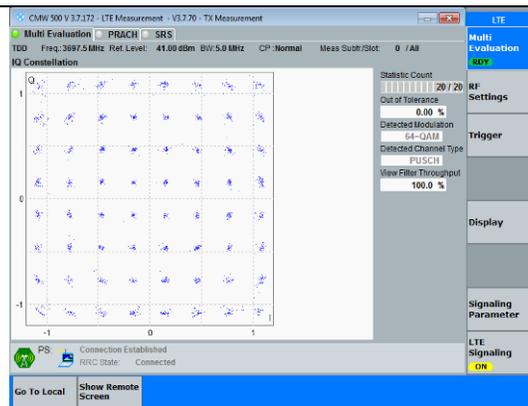
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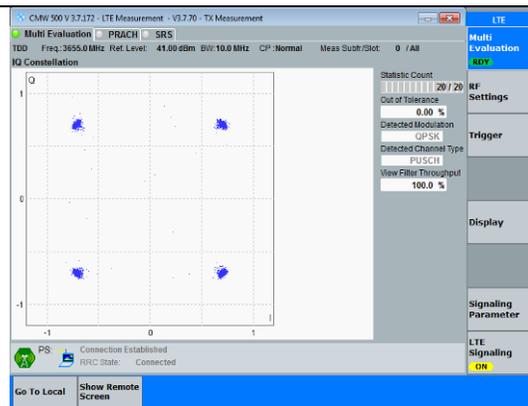
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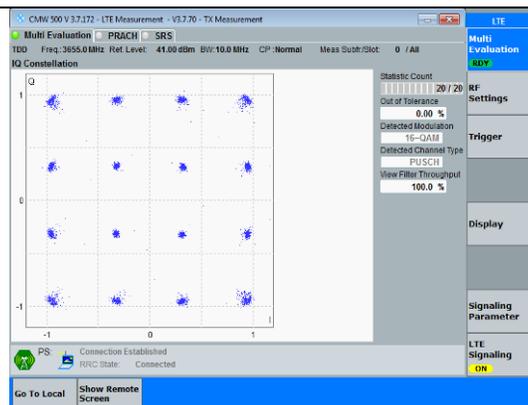
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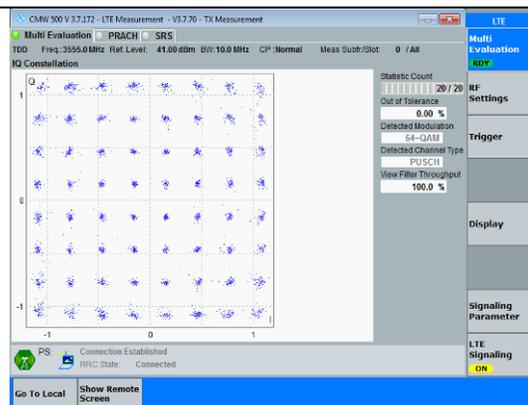
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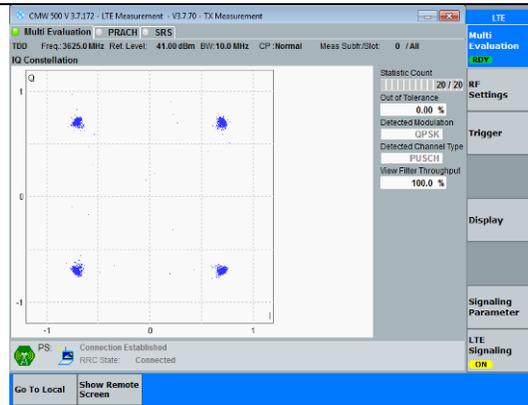
B48-10M-IQ-L-Q16



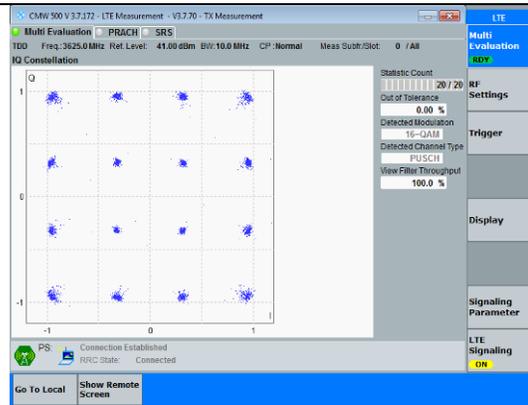
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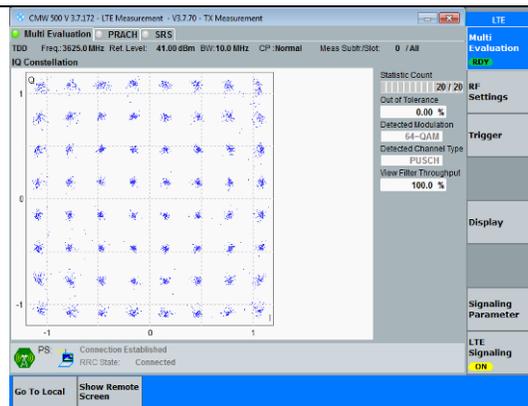
B48-10M-IQ-M-QPSK



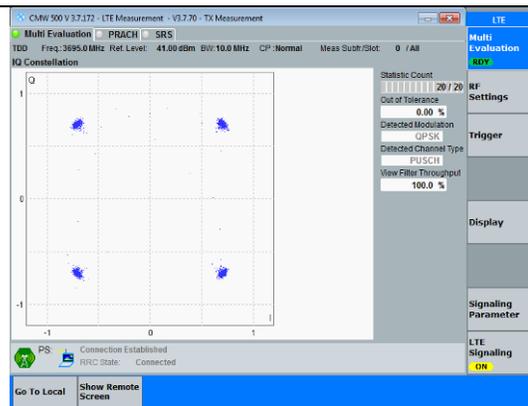
B48-10M-IQ-M-Q16



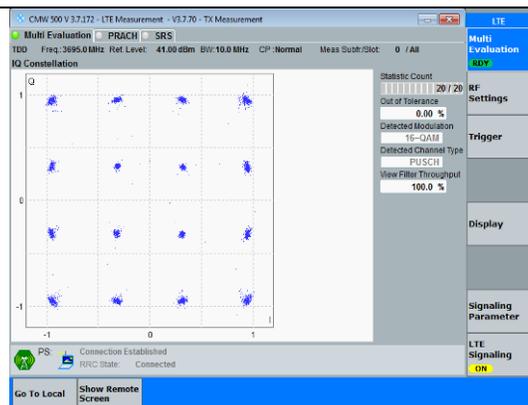
B48-10M-IQ-M-Q64



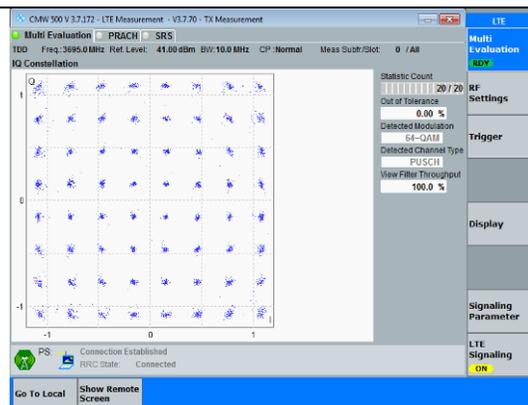
B48-10M-IQ-H-QPSK



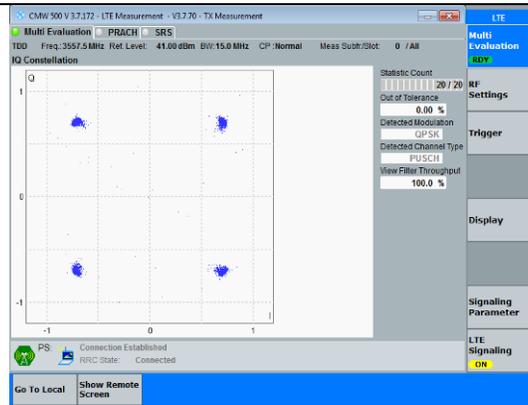
B48-10M-IQ-H-Q16



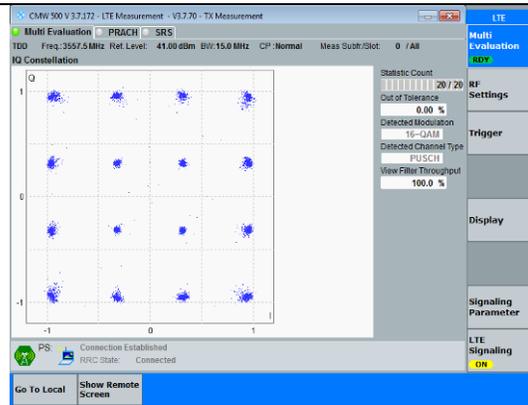
B48-10M-IQ-H-Q64



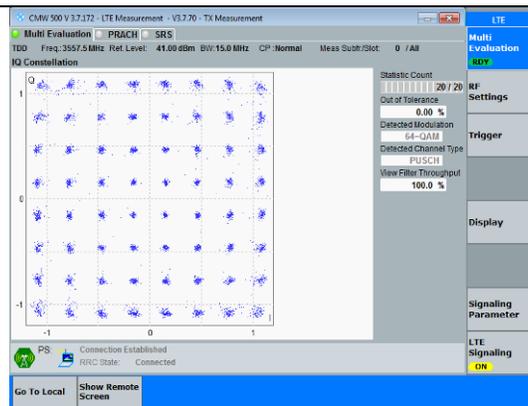
B48-15M-IQ-L-QPSK



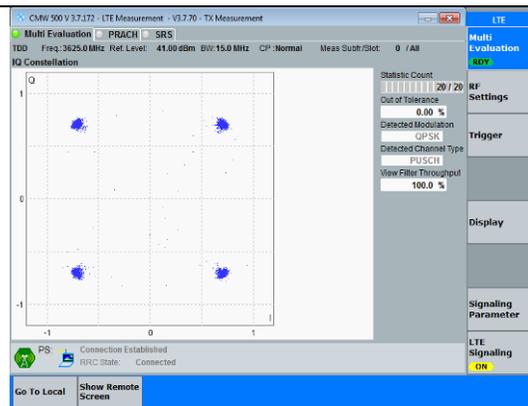
B48-15M-IQ-L-Q16



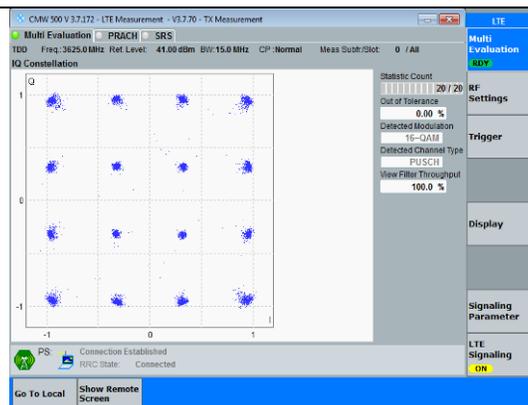
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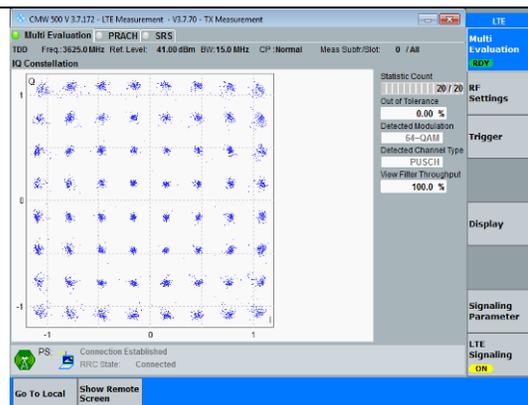
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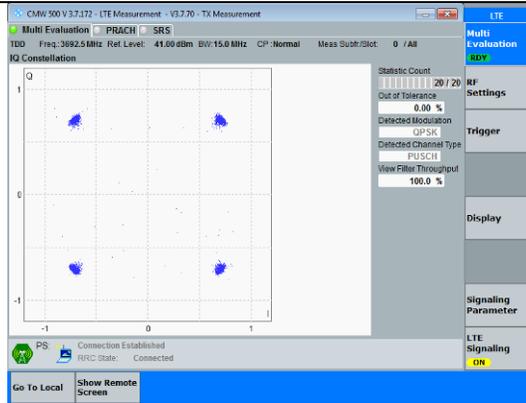
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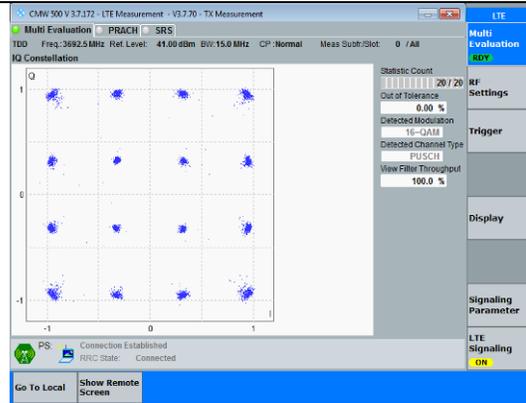
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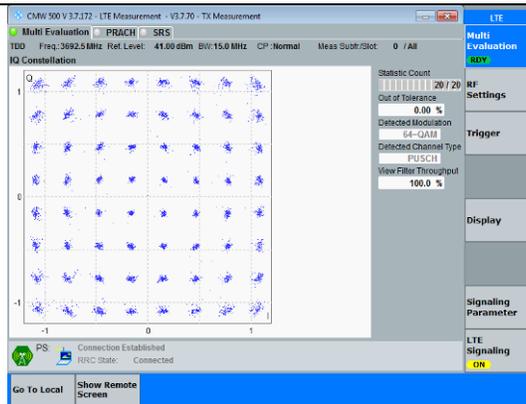
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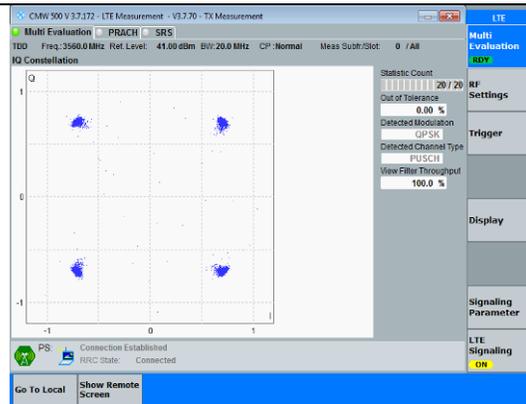
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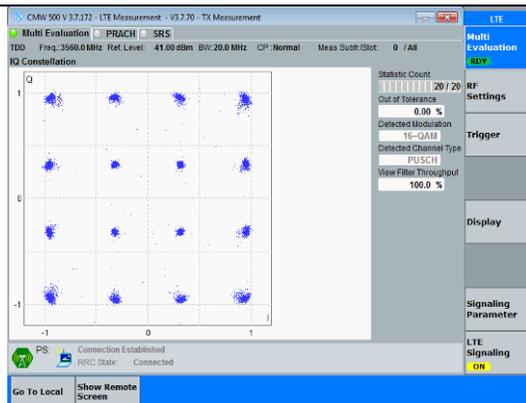
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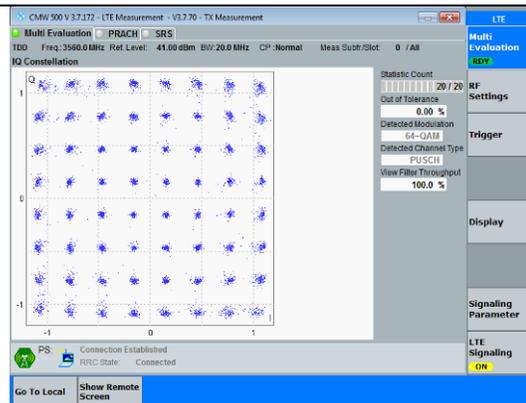
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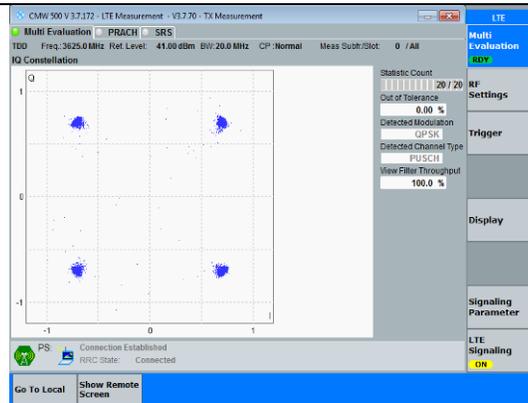
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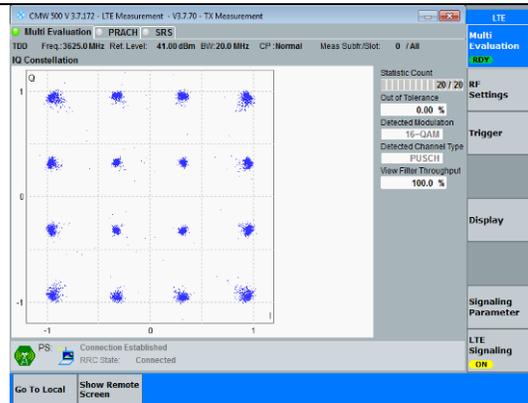
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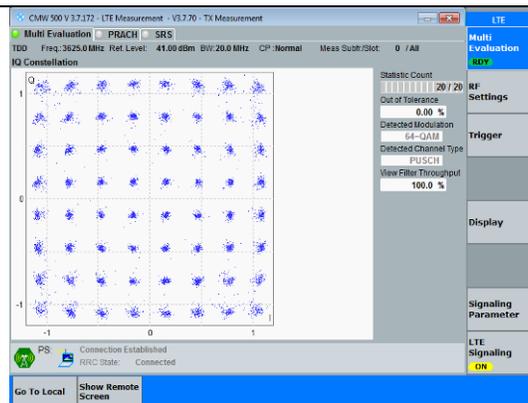
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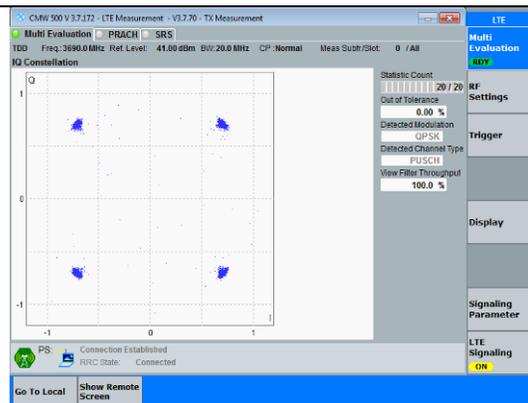
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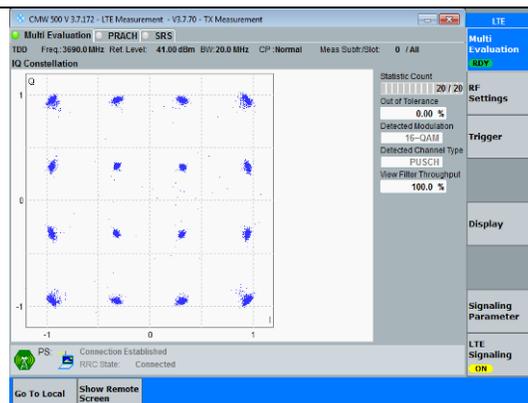
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B48-20M-IQ-H-Q16



B48-20M-IQ-H-Q64

