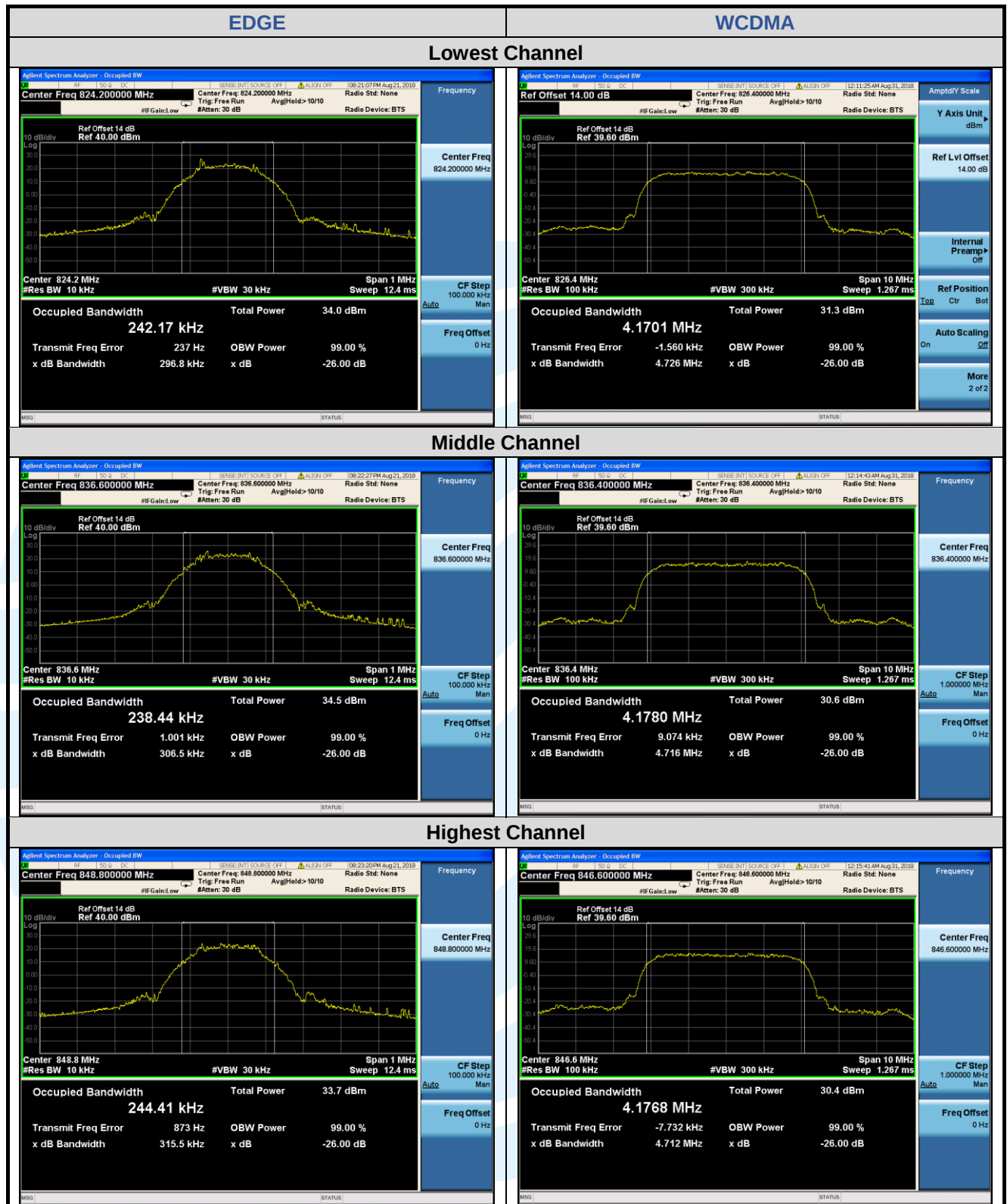
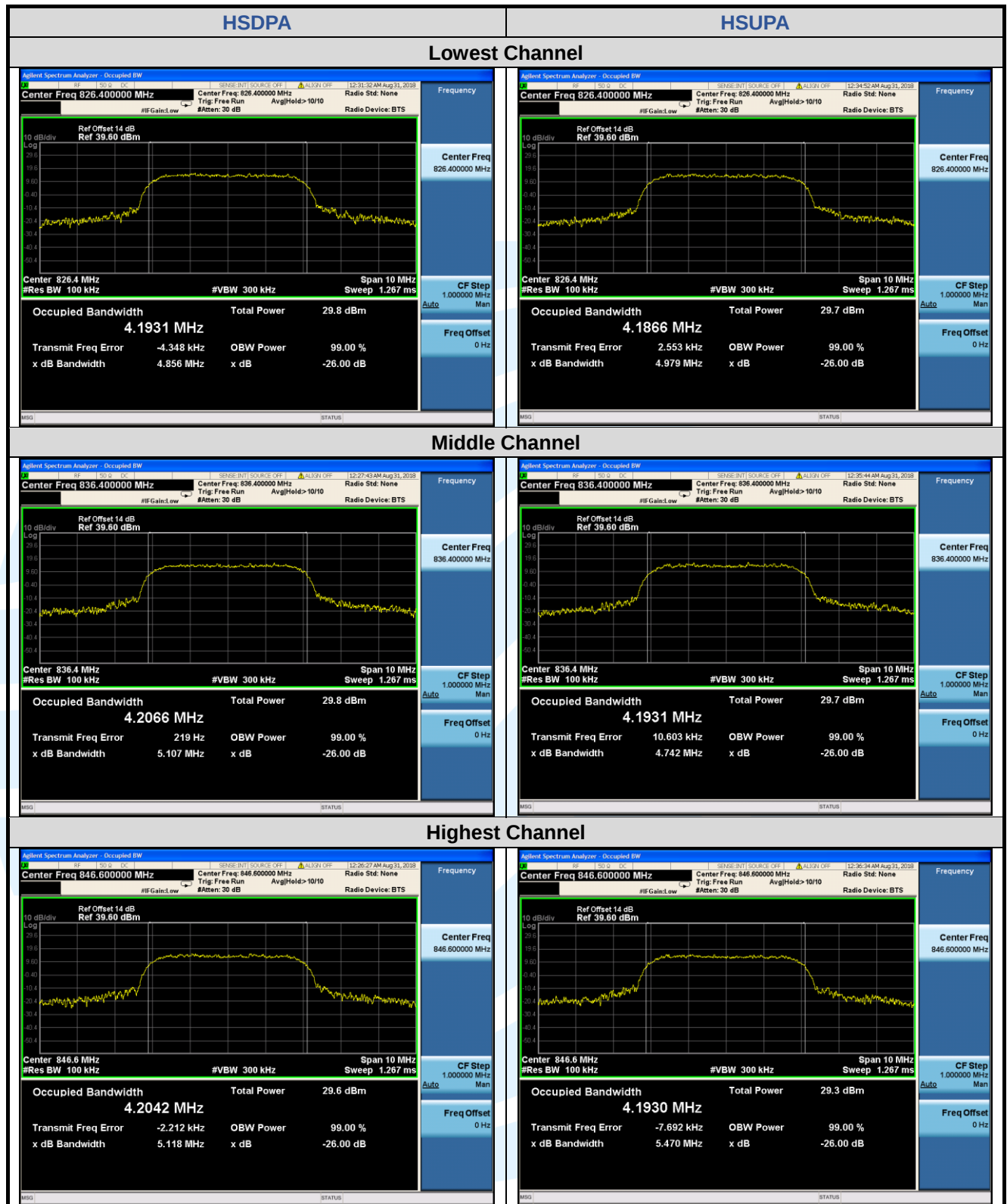
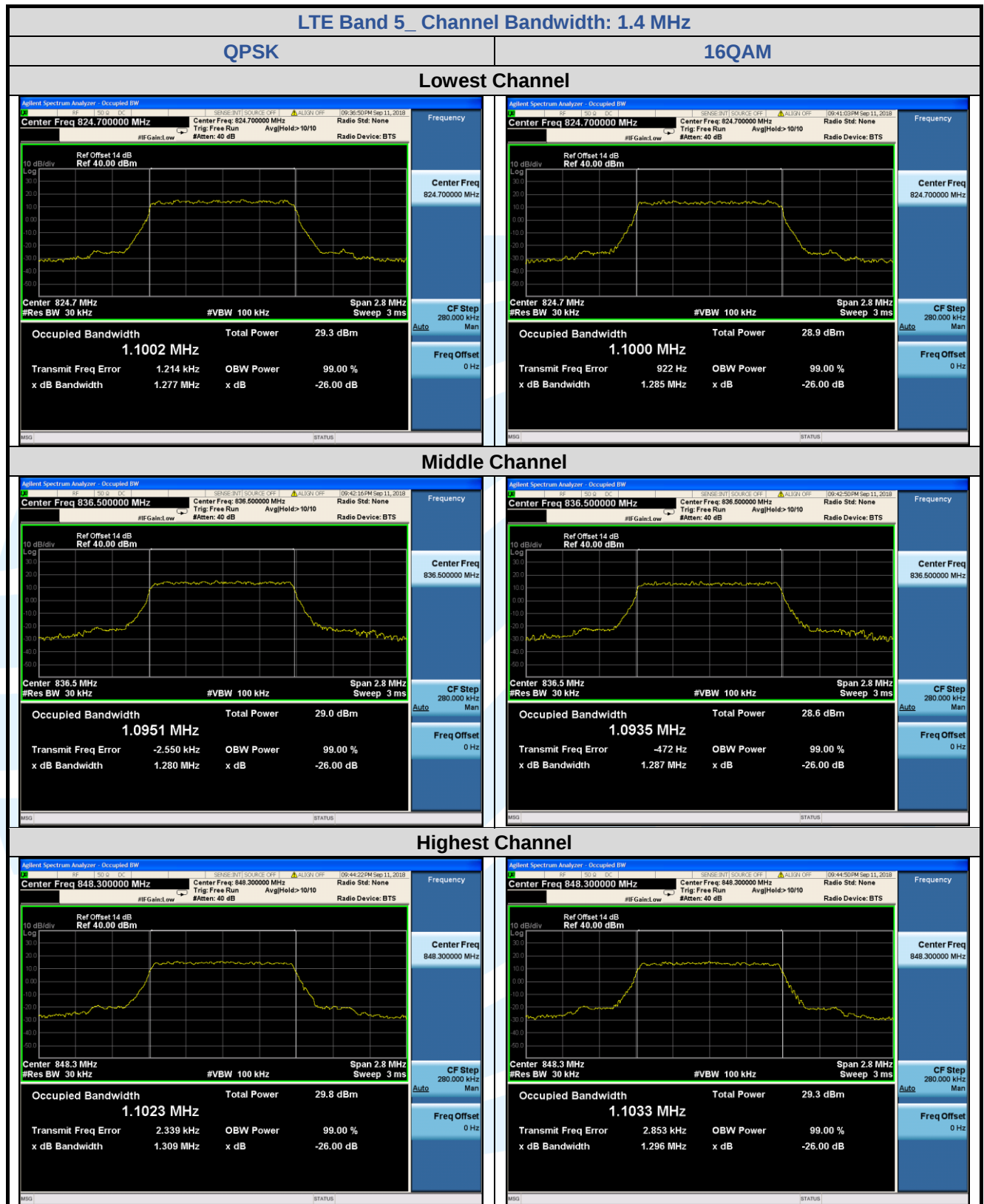
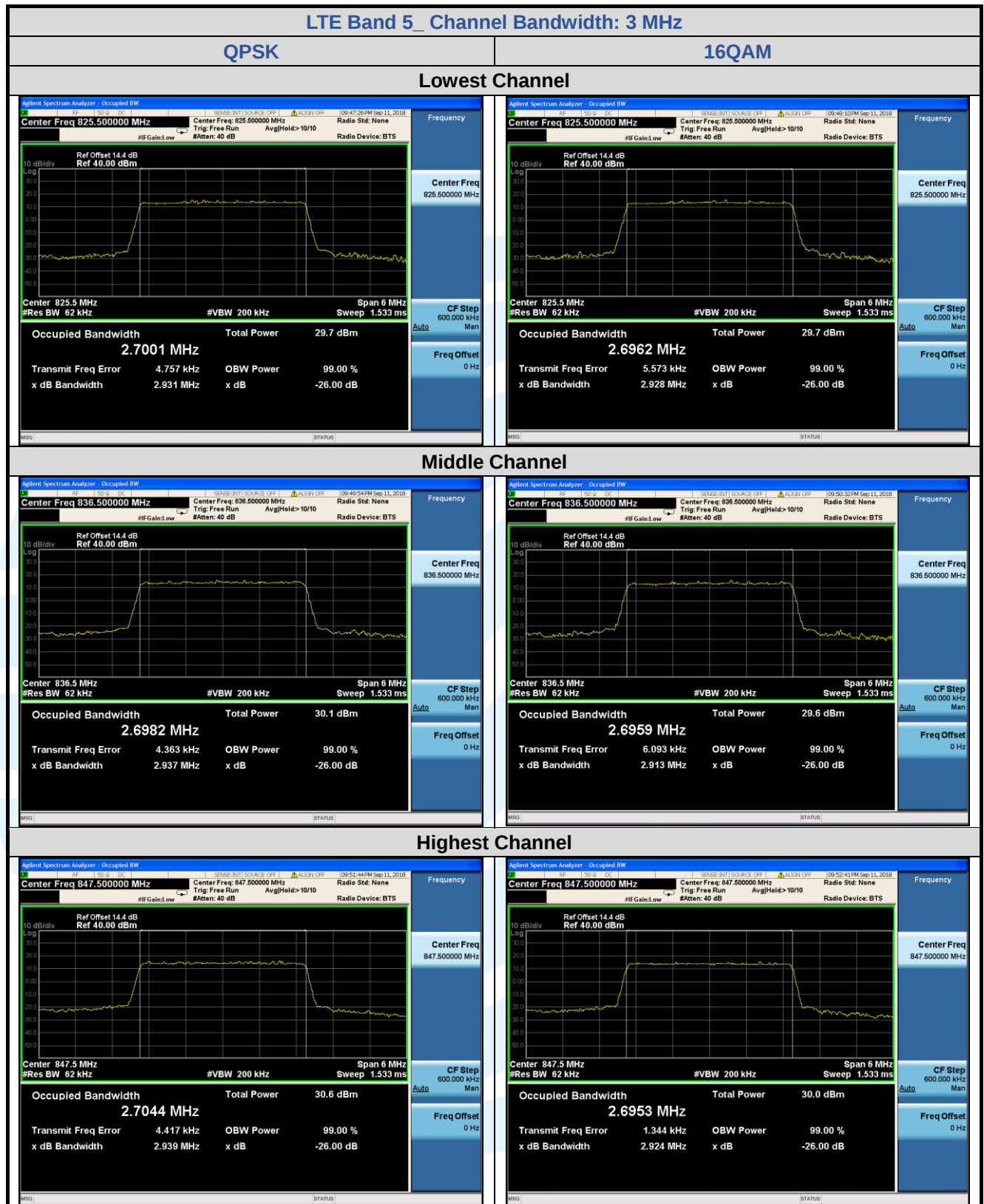
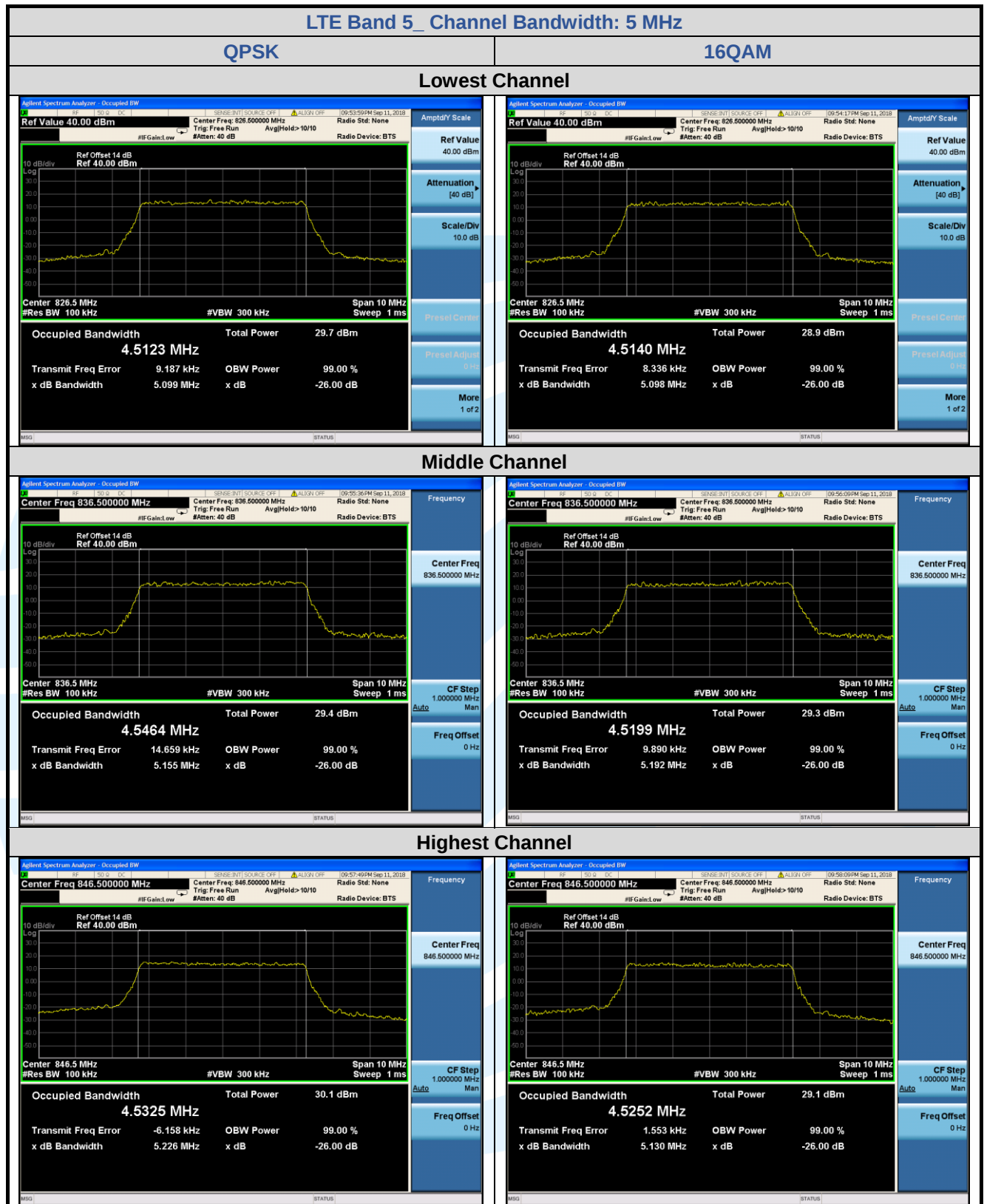


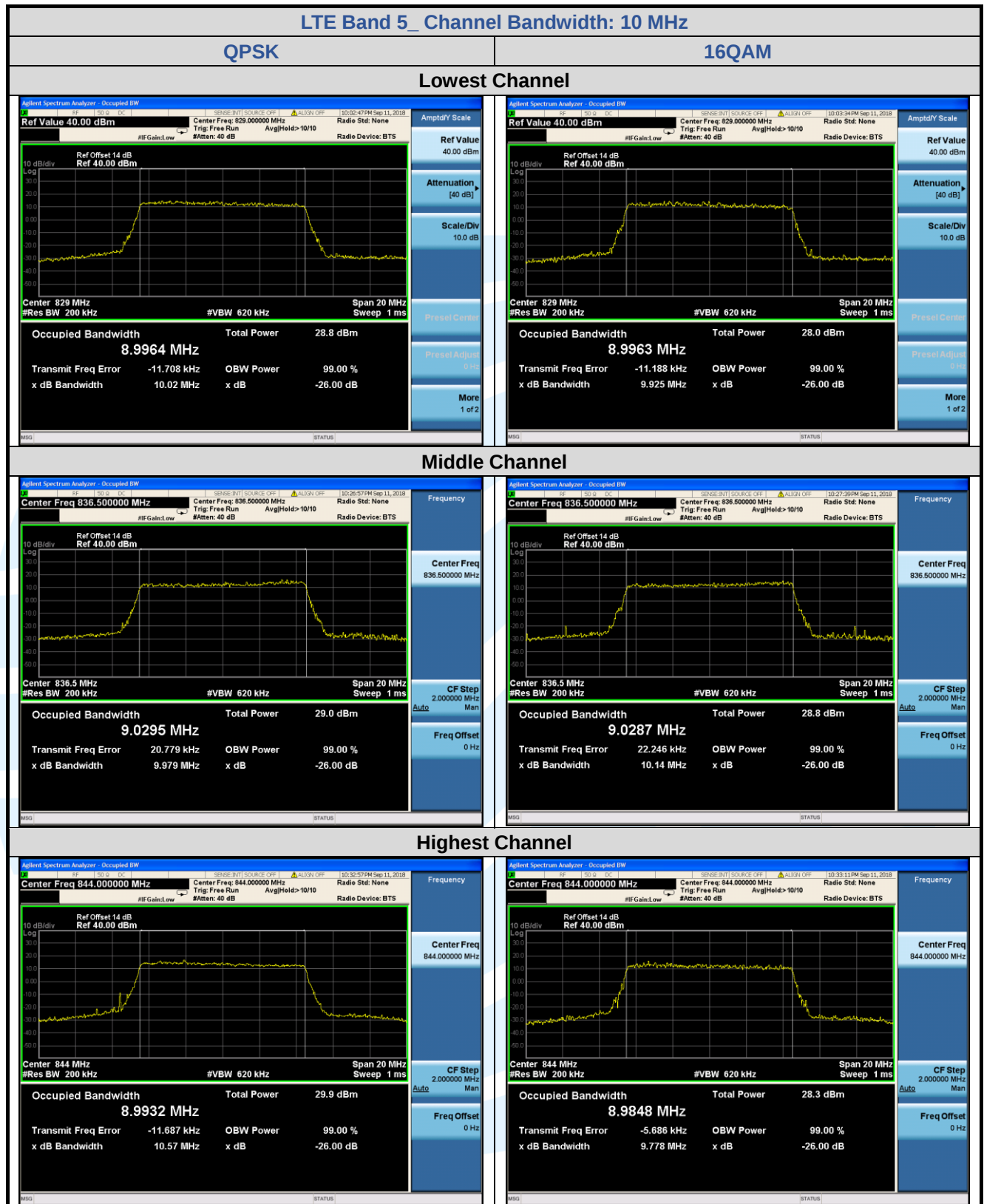












5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

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. The emission limit equal to -13 dBm.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

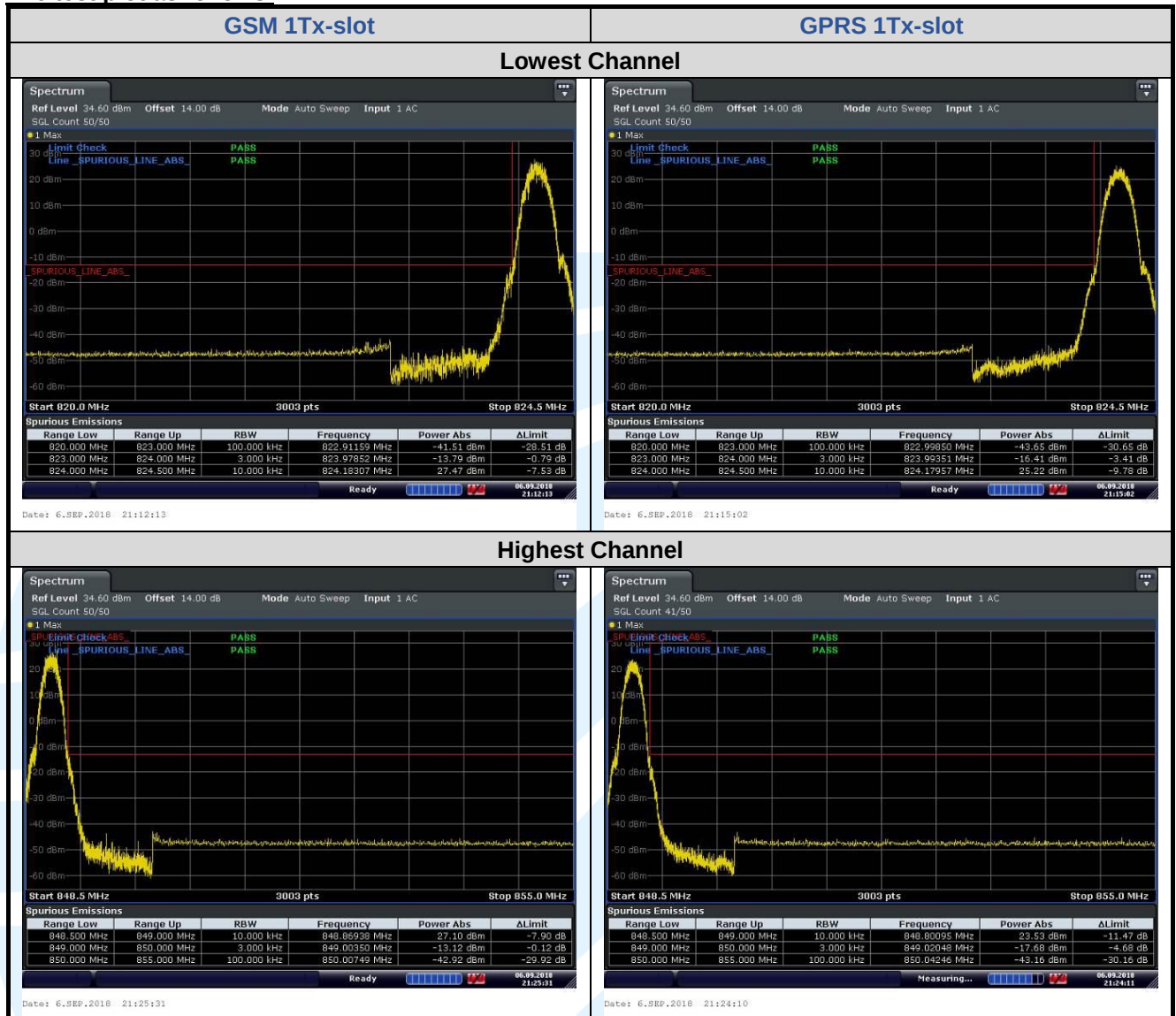
Test Setup: Refer to section 4.2.2 for details.

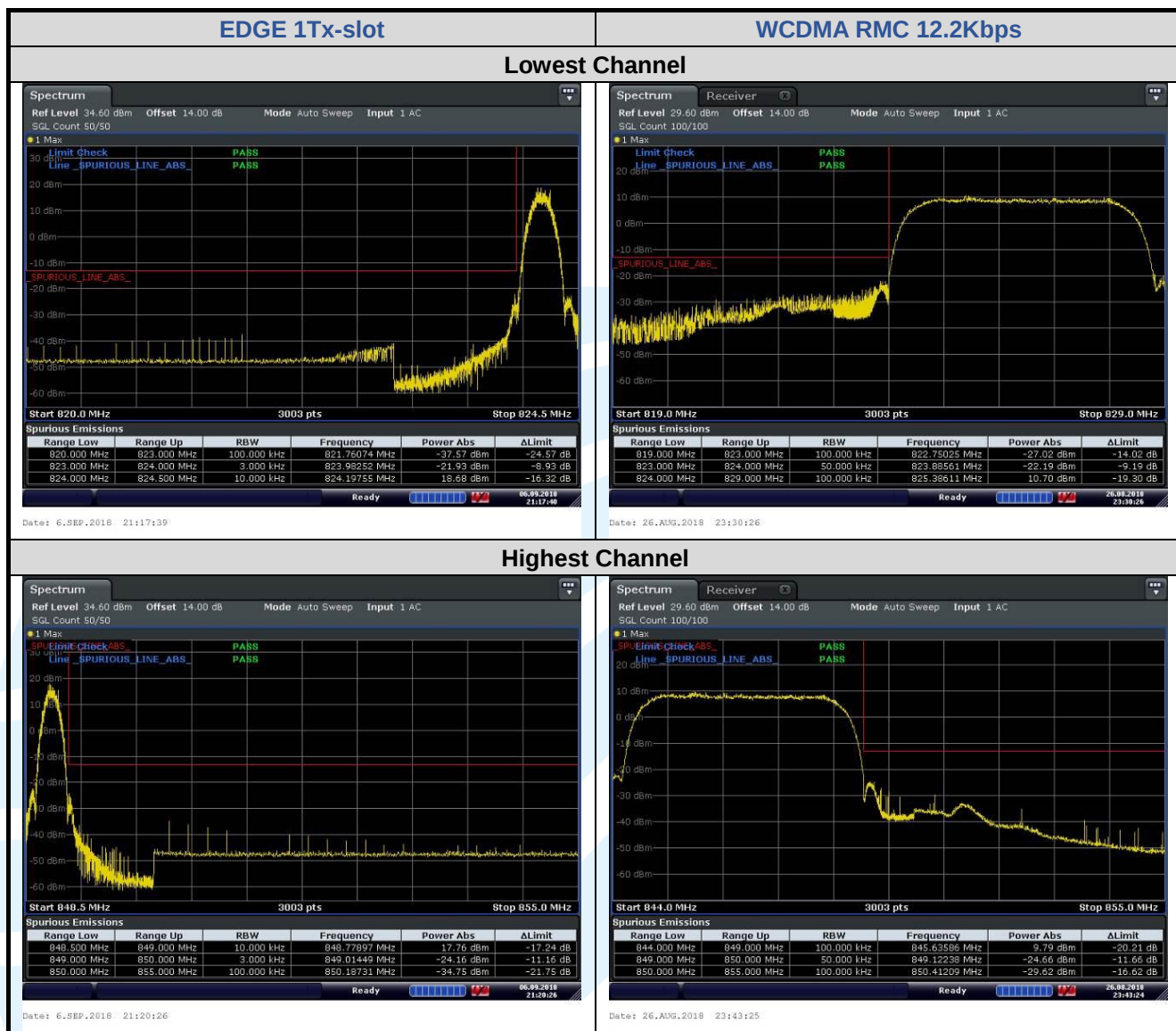
Instruments Used: Refer to section 3 for details

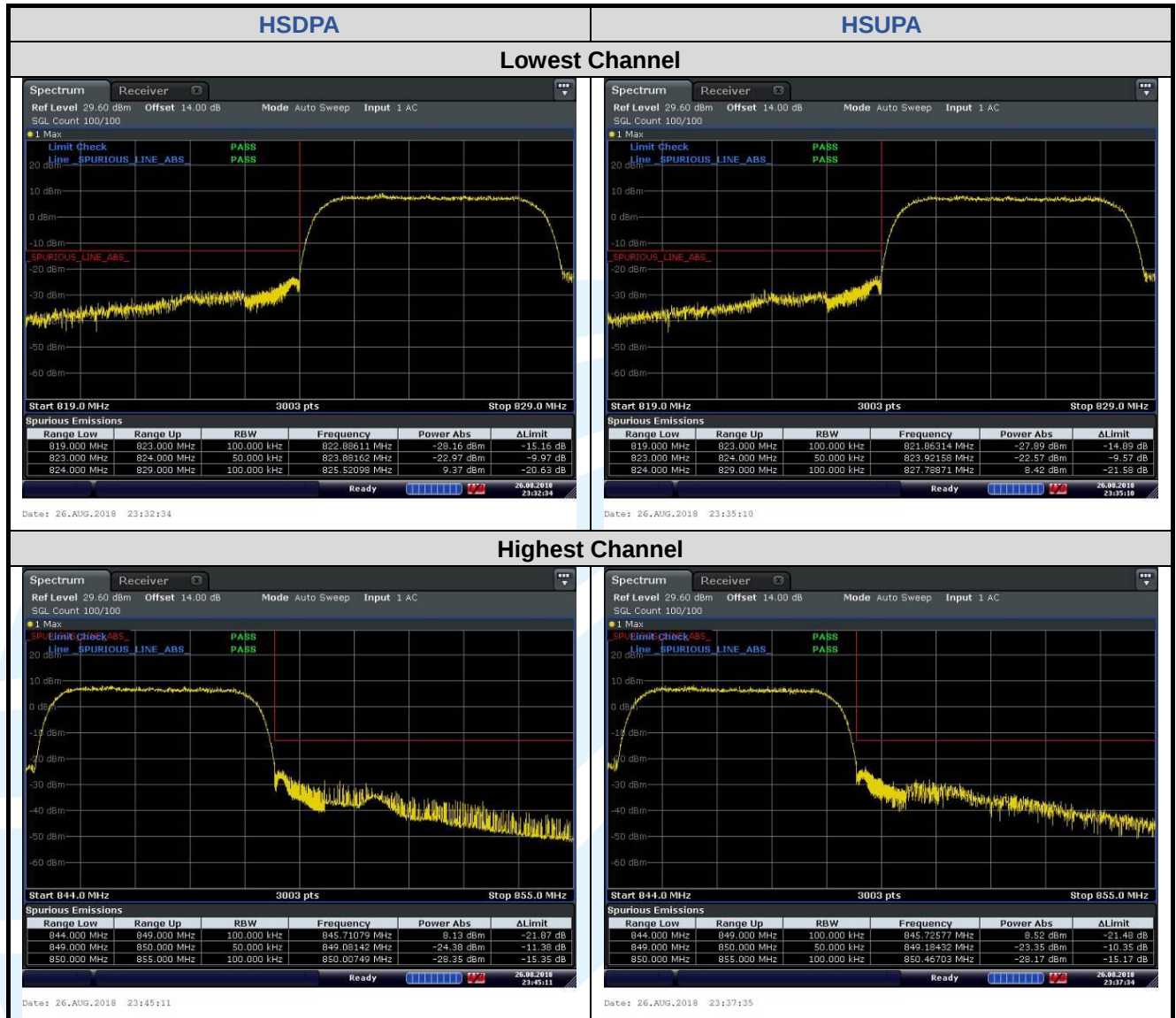
Test Mode: Link mode

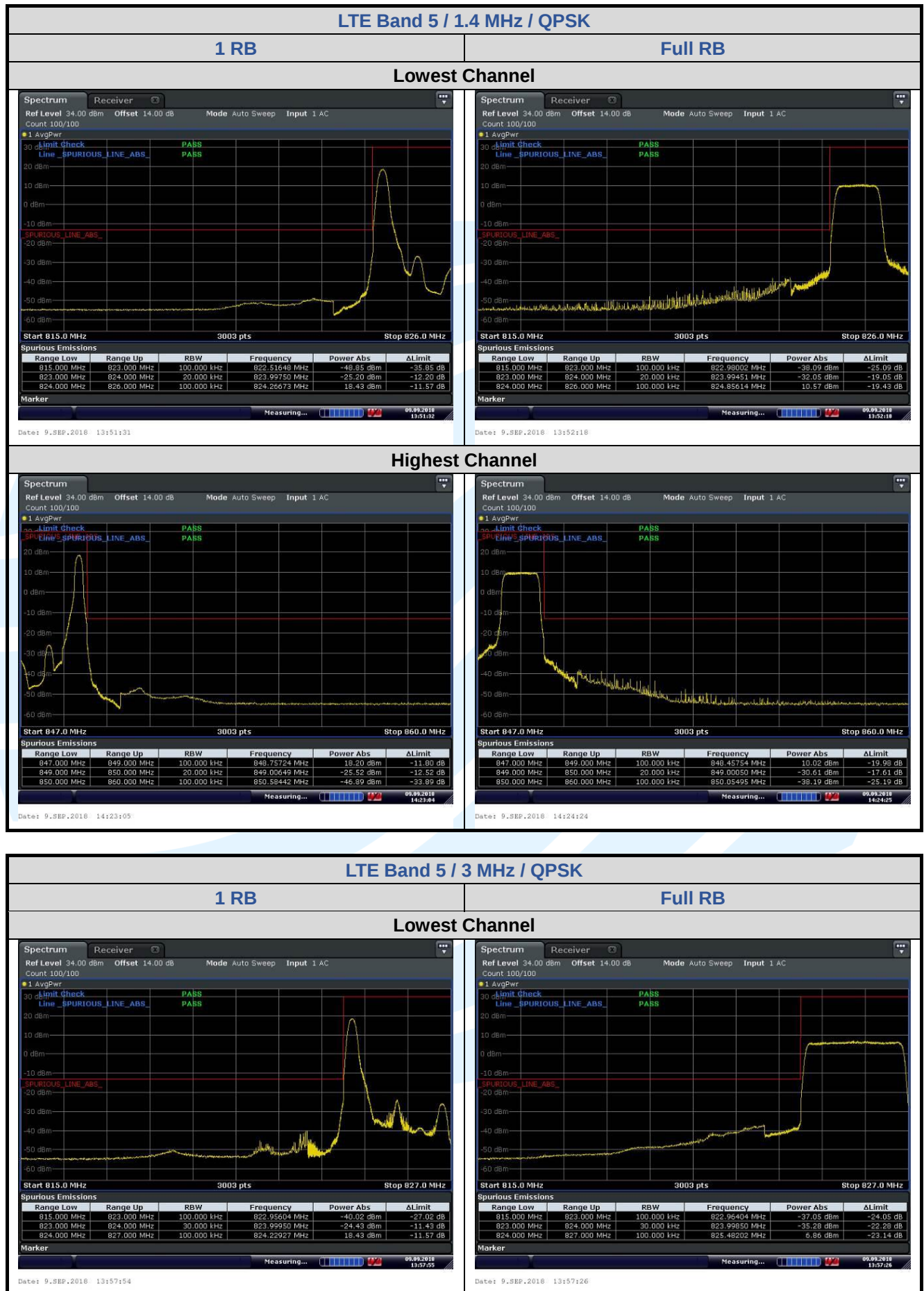
Test Results: Pass

The test plot as follows:







**LTE Band 5 / 3 MHz / QPSK**
1 RB
Full RB
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.95604 MHz	-40.02 dBm	-27.02 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-24.43 dBm	-11.43 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.22927 MHz	18.43 dBm	-11.57 dB

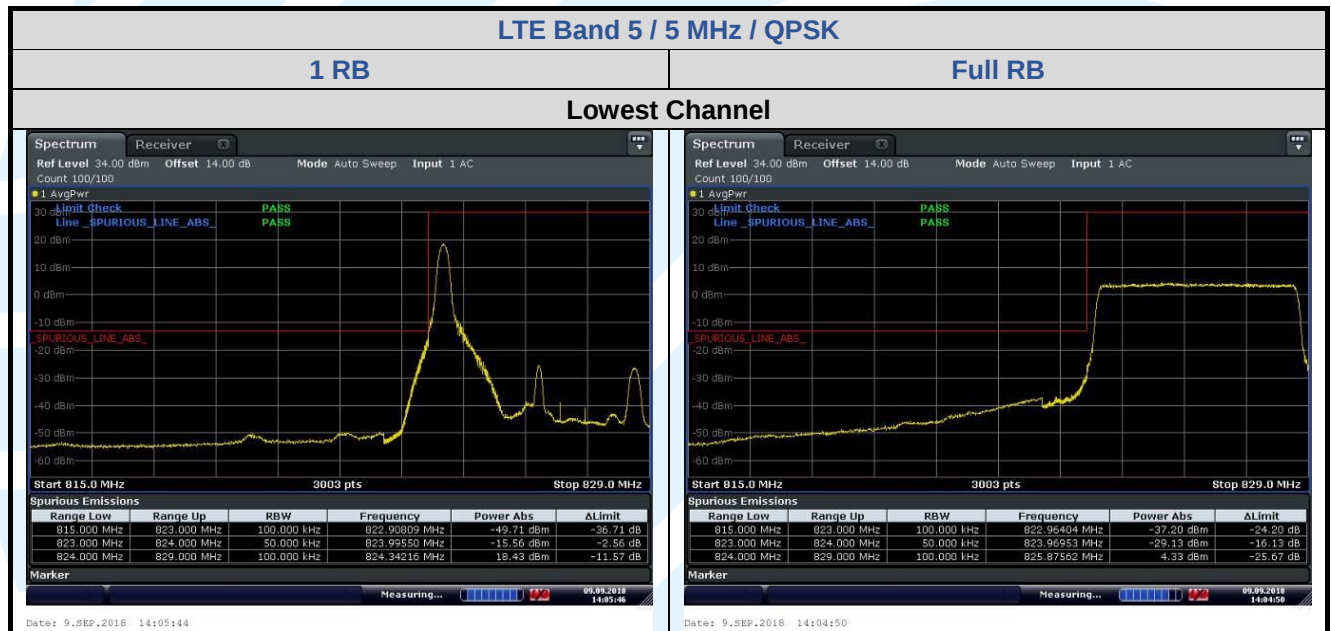
Date: 9_SEP.2018 13:57:54

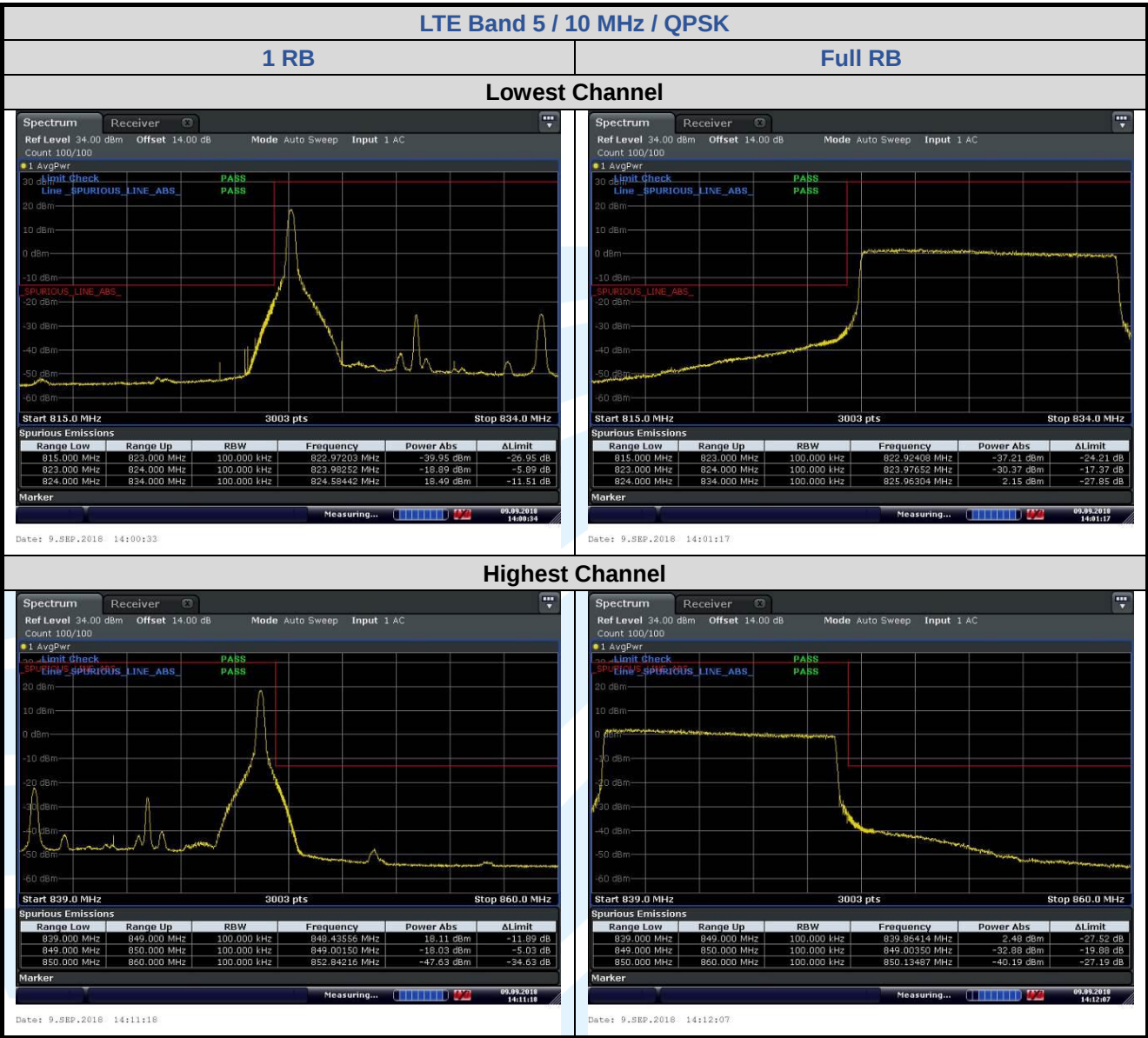


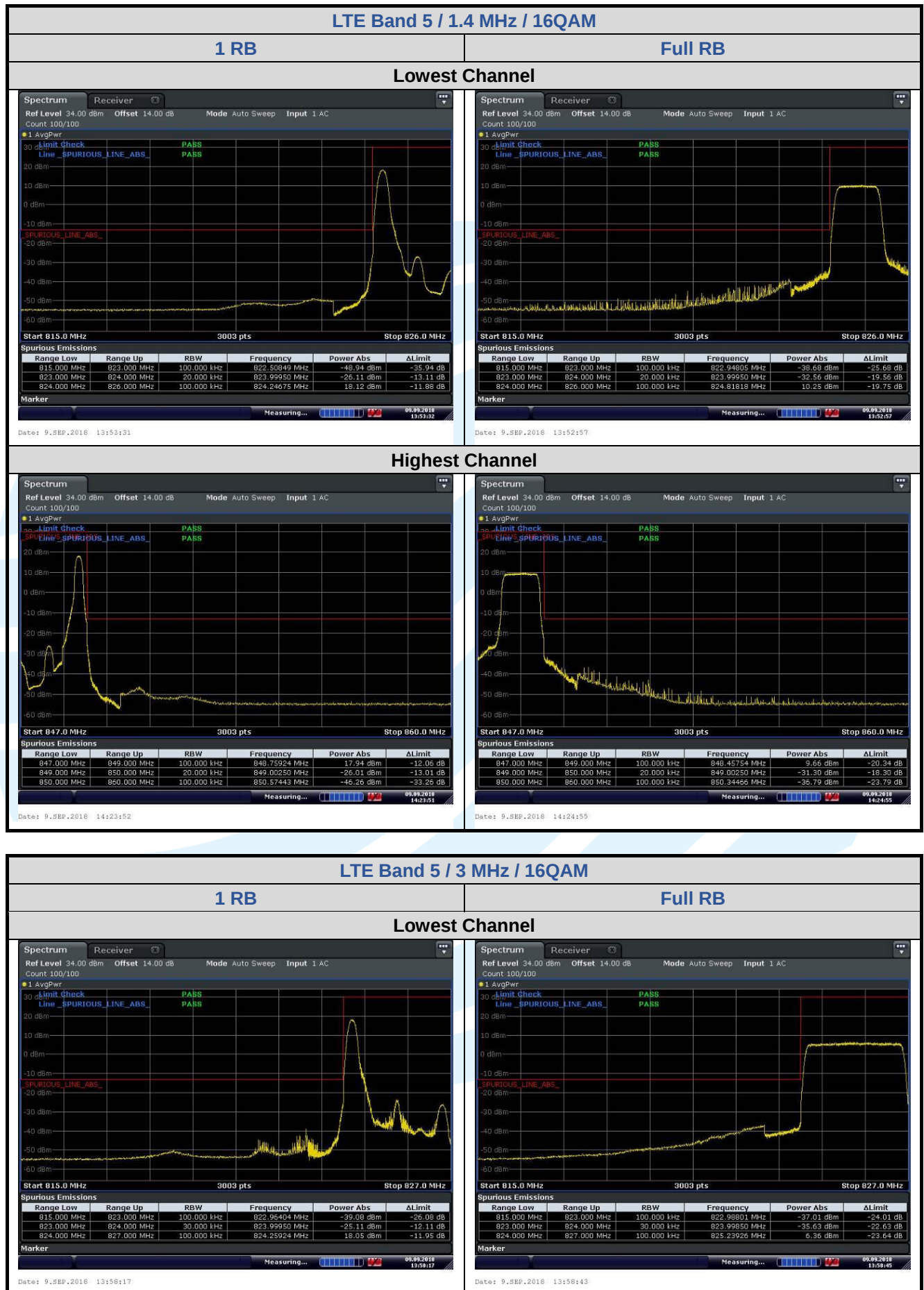
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.96404 MHz	-37.05 dBm	-24.05 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-35.28 dBm	-22.28 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.48202 MHz	6.86 dBm	-23.14 dB

Date: 9_SEP.2018 13:57:26






LTE Band 5 / 3 MHz / 16QAM
1 RB
Full RB
Lowest Channel

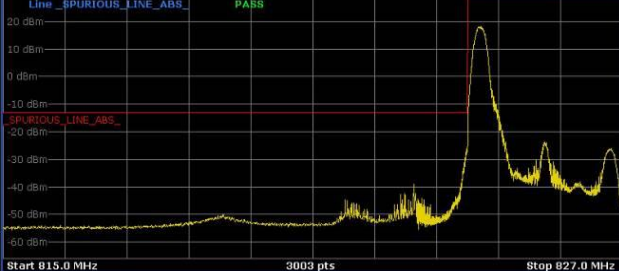
Spectrum Receiver ▼

Ref Level 34.00 dBm Offset 14.00 dB Mode Auto Sweep Input 1 AC
Count 100/100

● 1 AvgPwr

Limit Check PASS

Line SPURIOUS_LINE_ABS PASS



Start 815.0 MHz 3003 pts Stop 827.0 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.96404 MHz	-39.08 dBm	-26.08 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-25.11 dBm	-12.11 dB
824.000 MHz	827.000 MHz	100.000 kHz	824.25924 MHz	18.05 dBm	-11.95 dB

Marker

Measuring... 09.09.2018 13:58:17

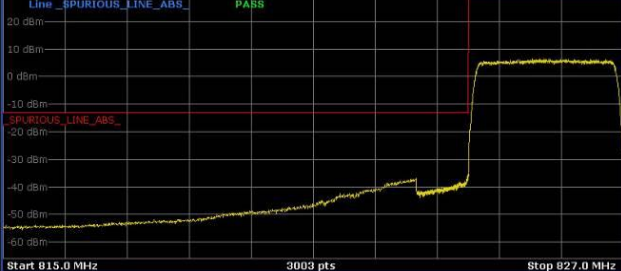
Spectrum Receiver ▼

Ref Level 34.00 dBm Offset 14.00 dB Mode Auto Sweep Input 1 AC
Count 100/100

● 1 AvgPwr

Limit Check PASS

Line SPURIOUS_LINE_ABS PASS



Start 815.0 MHz 3003 pts Stop 827.0 MHz

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98801 MHz	-37.01 dBm	-24.01 dB
823.000 MHz	824.000 MHz	30.000 kHz	823.99950 MHz	-35.63 dBm	-22.63 dB
824.000 MHz	827.000 MHz	100.000 kHz	825.23926 MHz	6.36 dBm	-23.64 dB

Marker

Measuring... 09.09.2018 13:58:43

