
8.8. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

RSS-247 5.5

Limit = -20 dBc

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

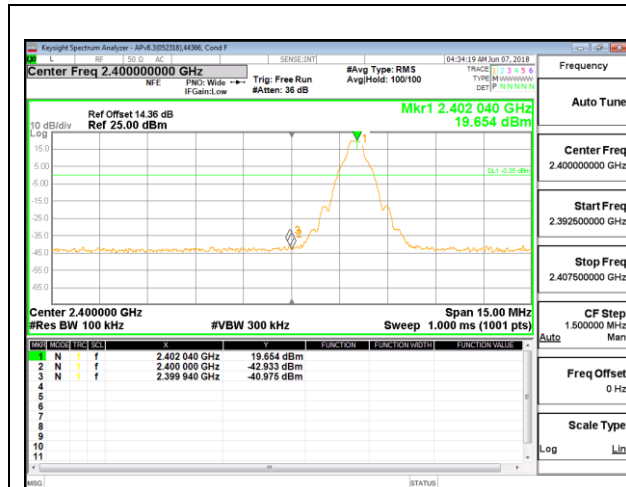
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

The band edges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

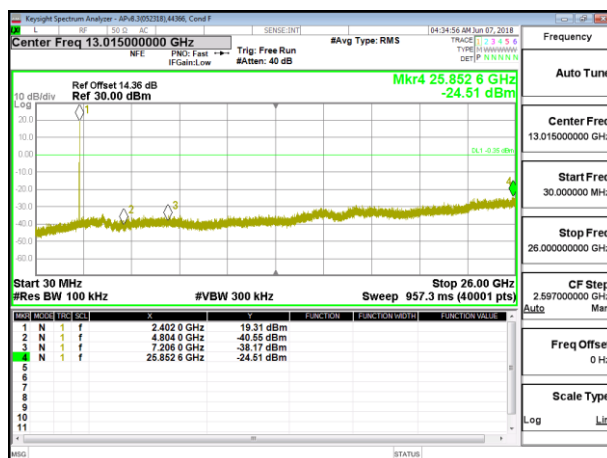
RESULTS

8.8.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

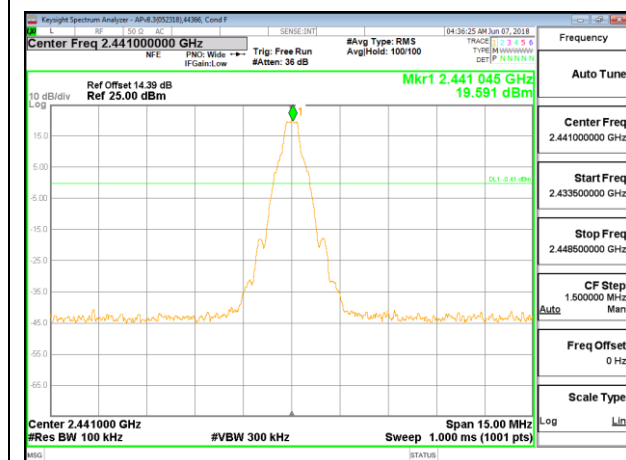
Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



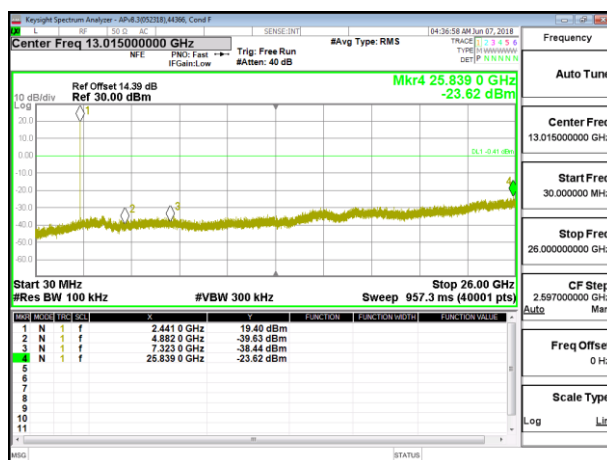
LOW CHANNEL BANDEDGE



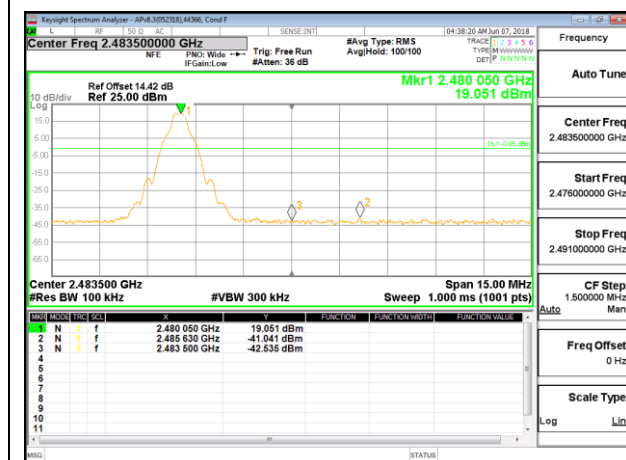
OUT-OF-BAND LOW CHANNEL



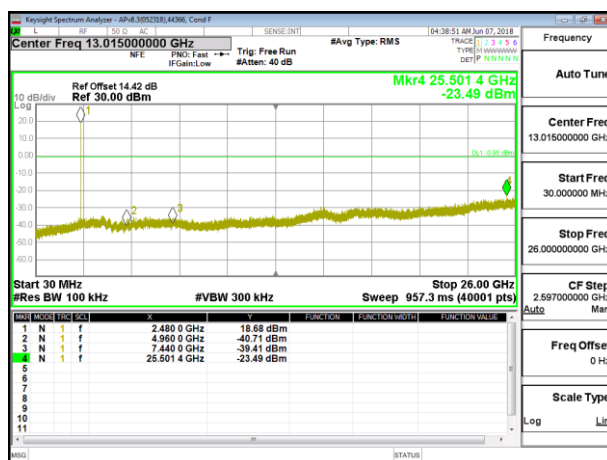
IN-BAND REFERENCE LEVEL



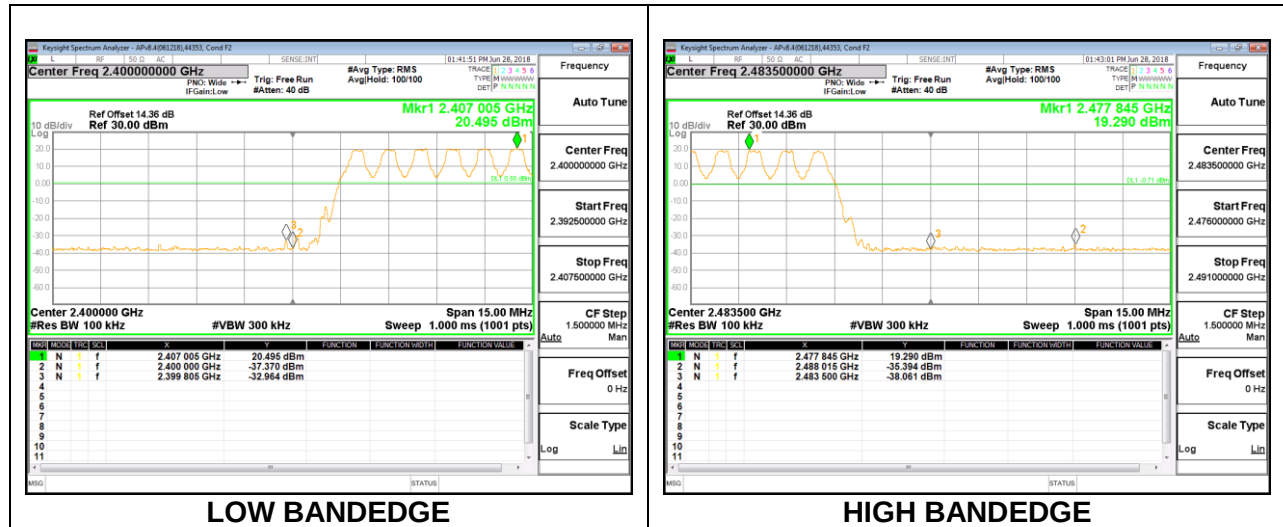
OUT-OF-BAND MID CHANNEL

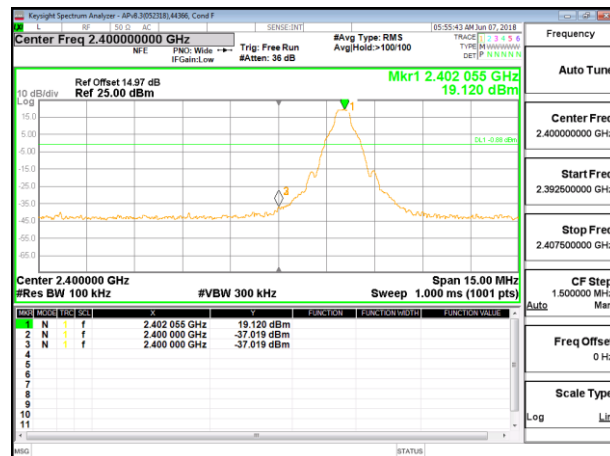
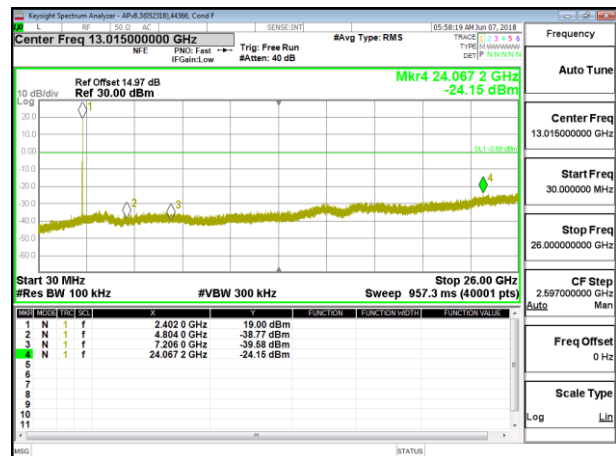
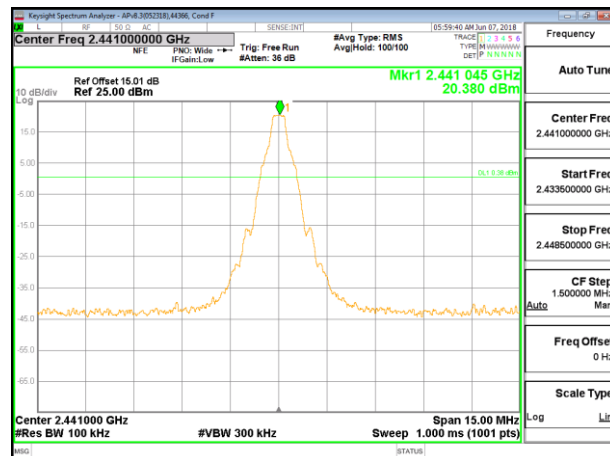
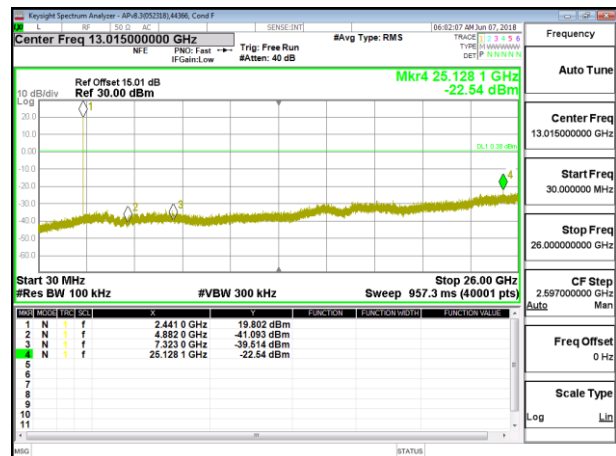
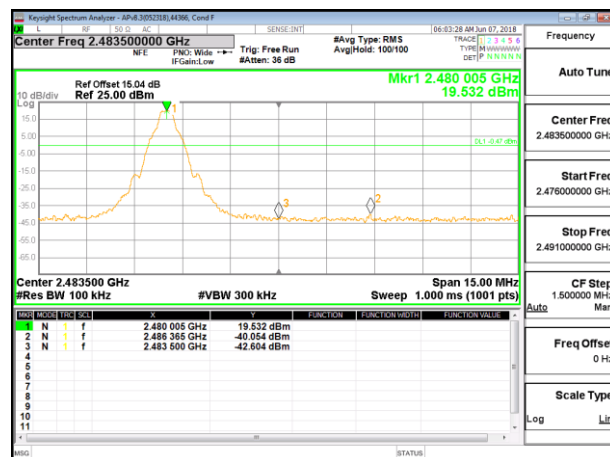
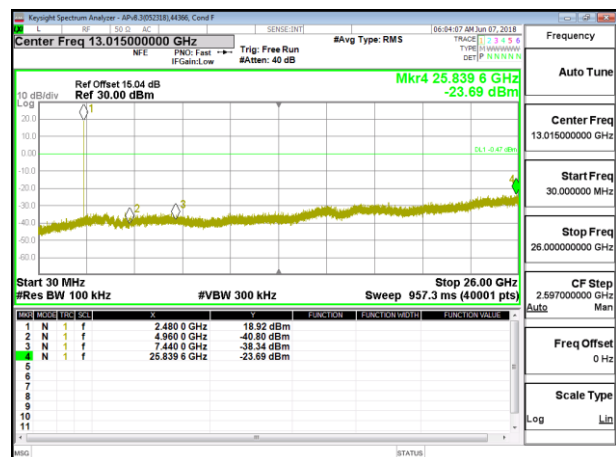


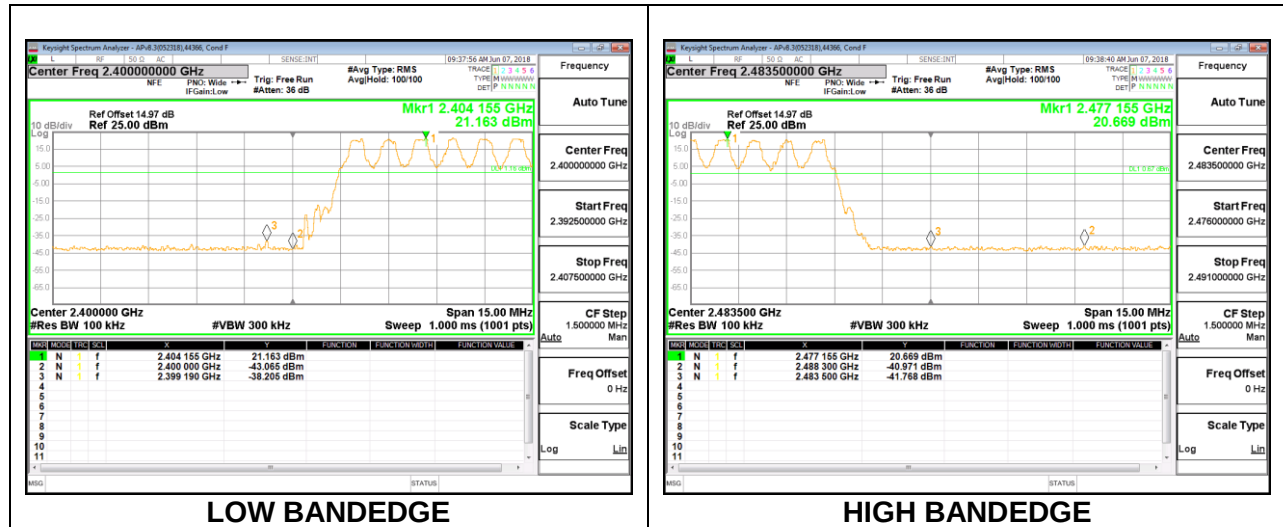
HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

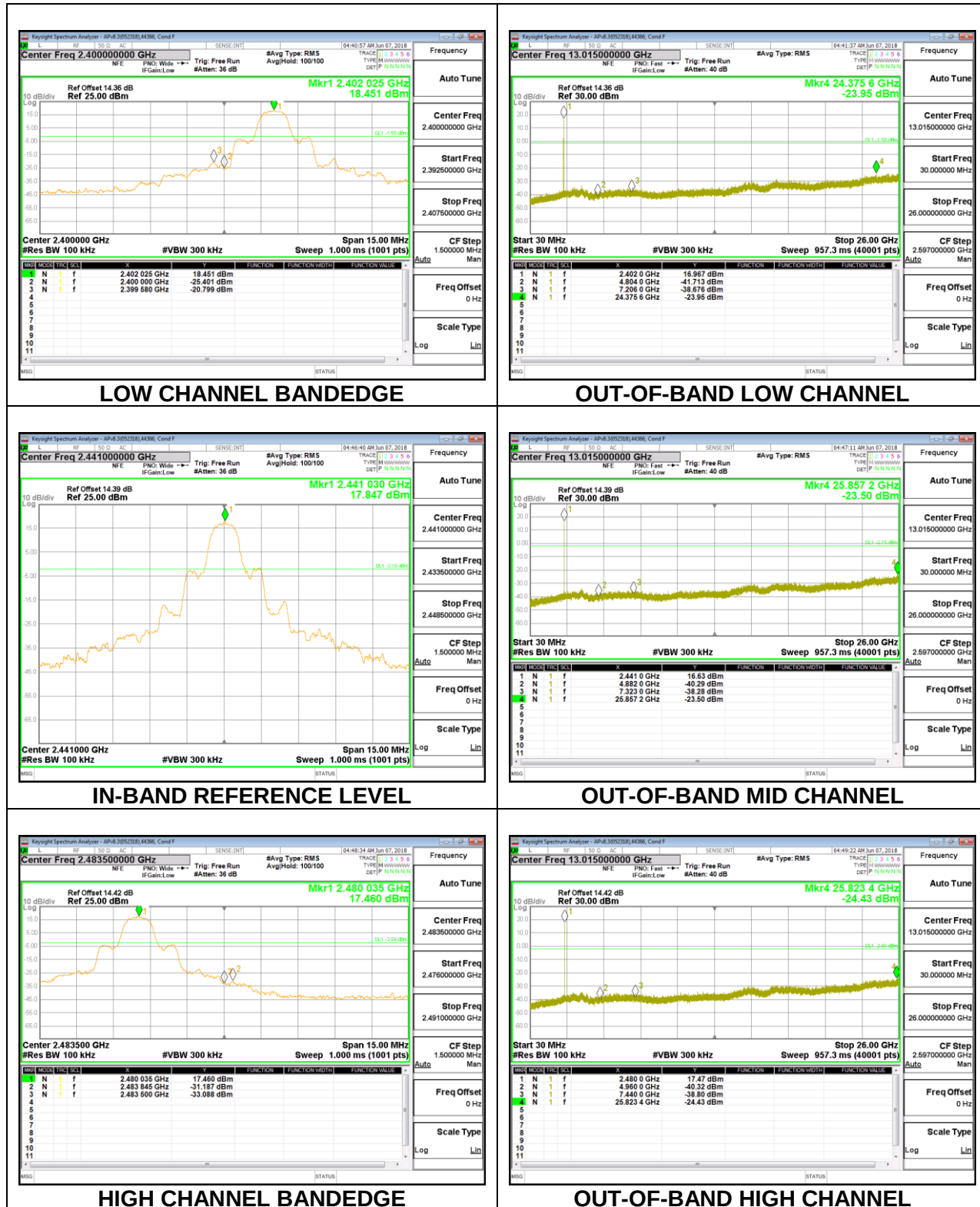
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

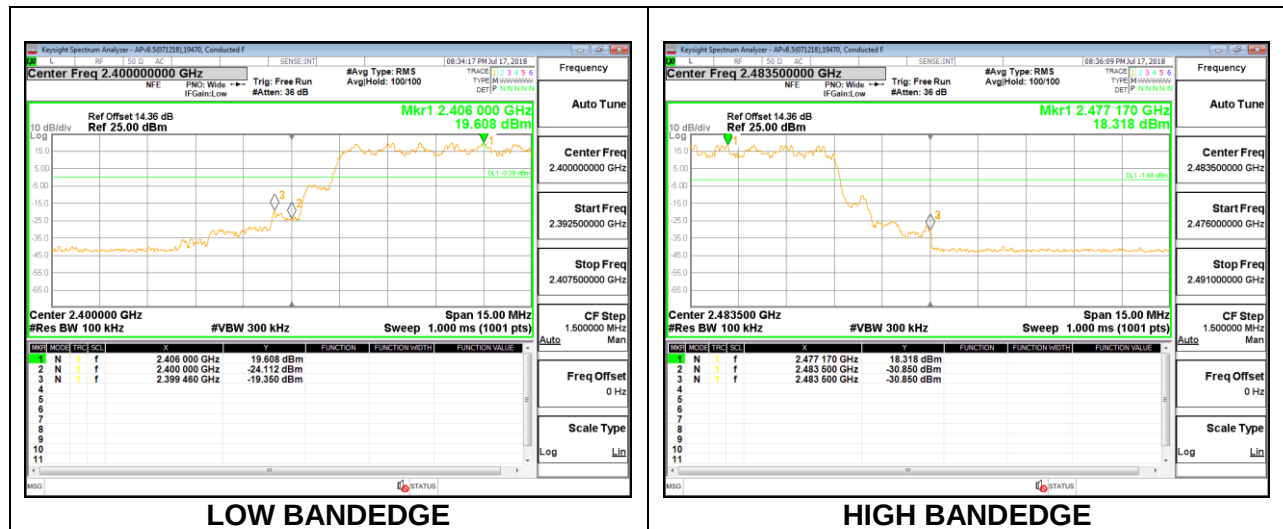
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

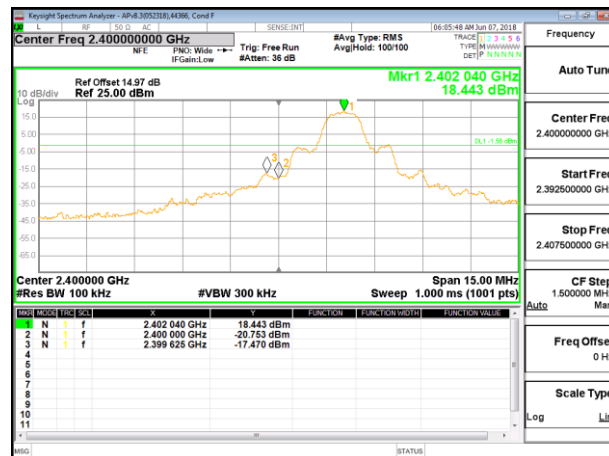
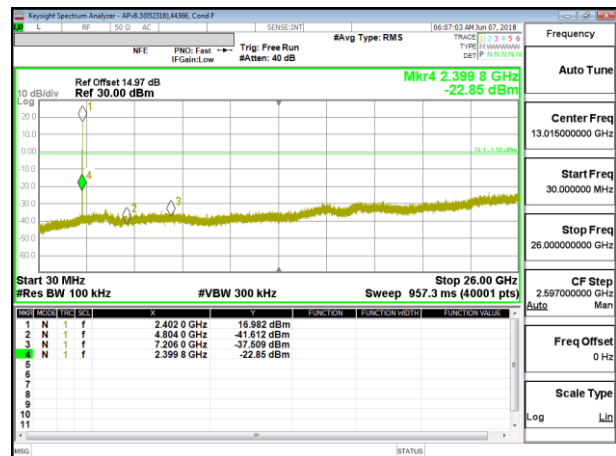
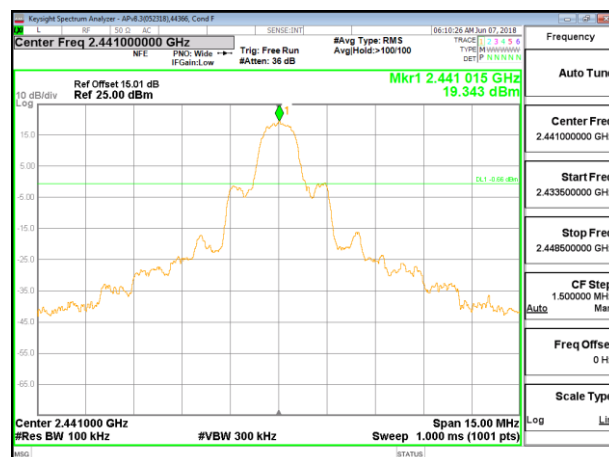
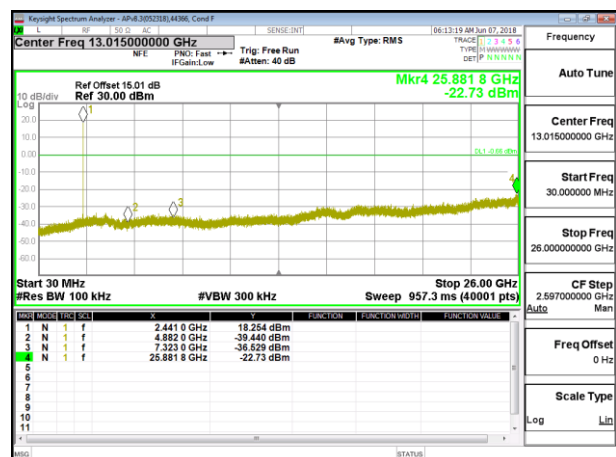
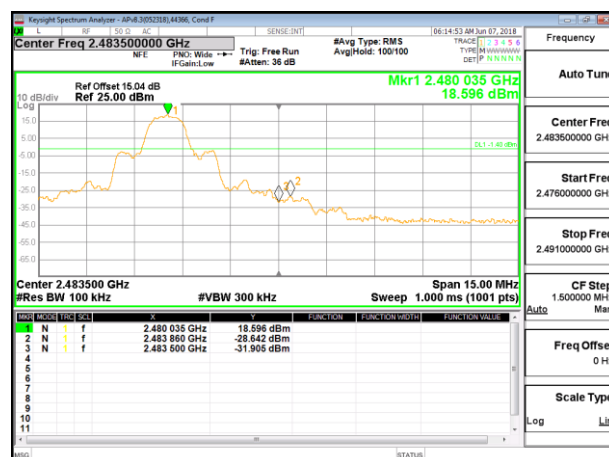
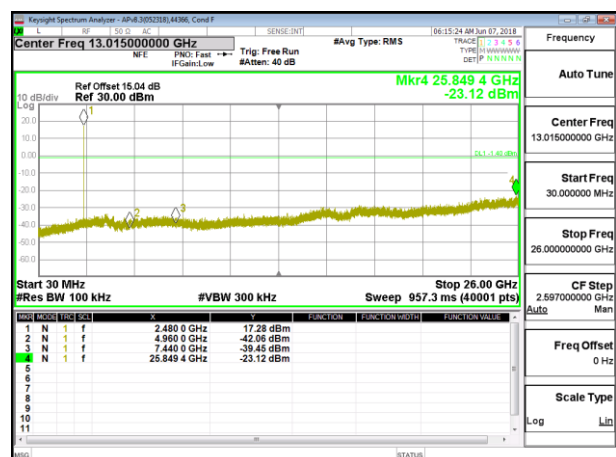
Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

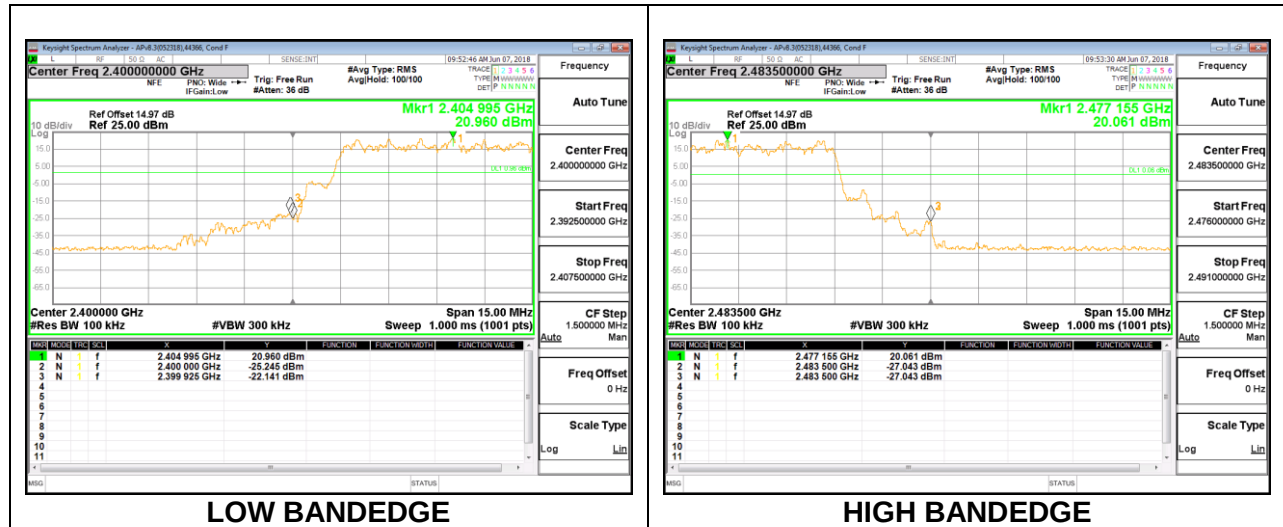
8.8.2. HIGH POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



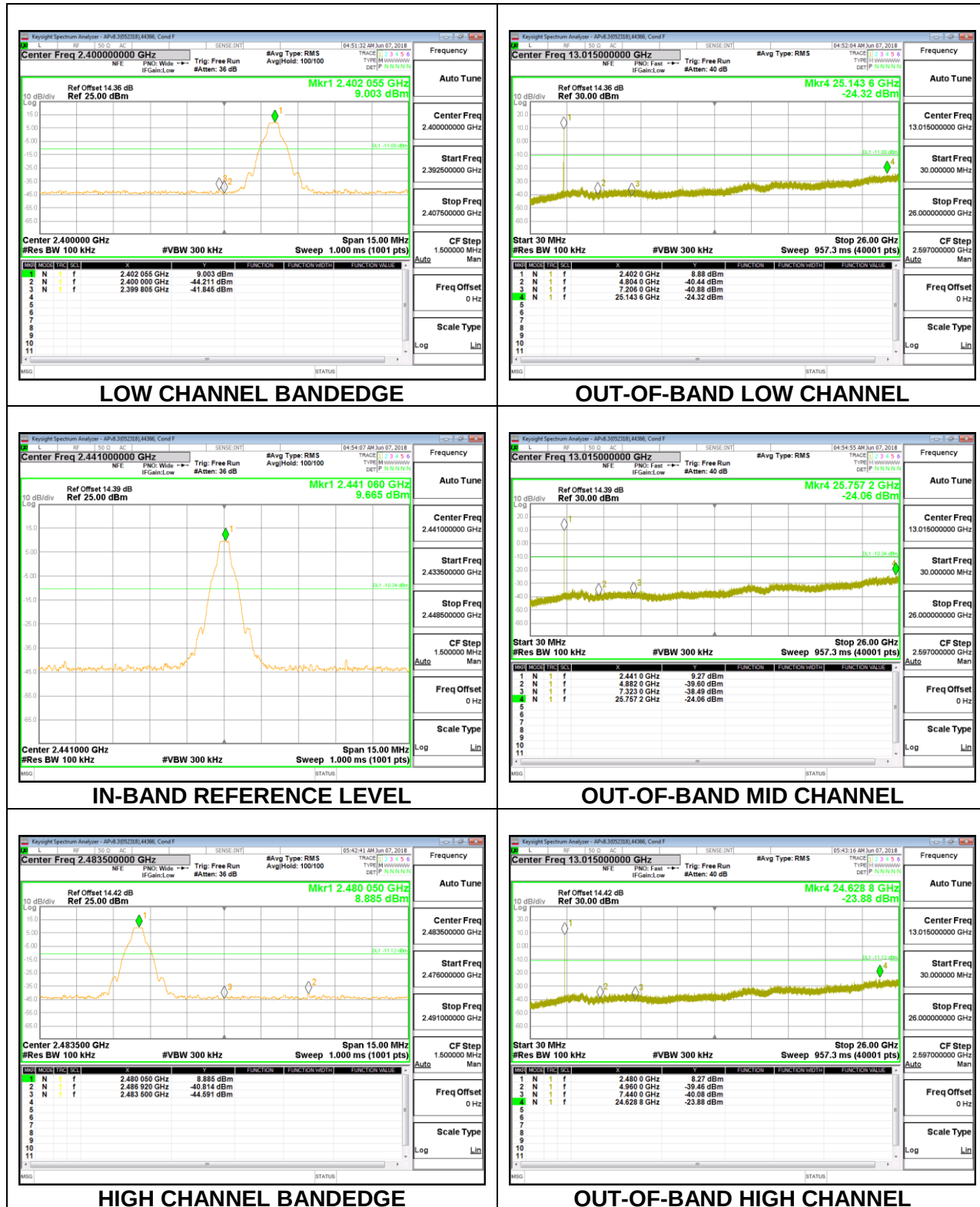
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

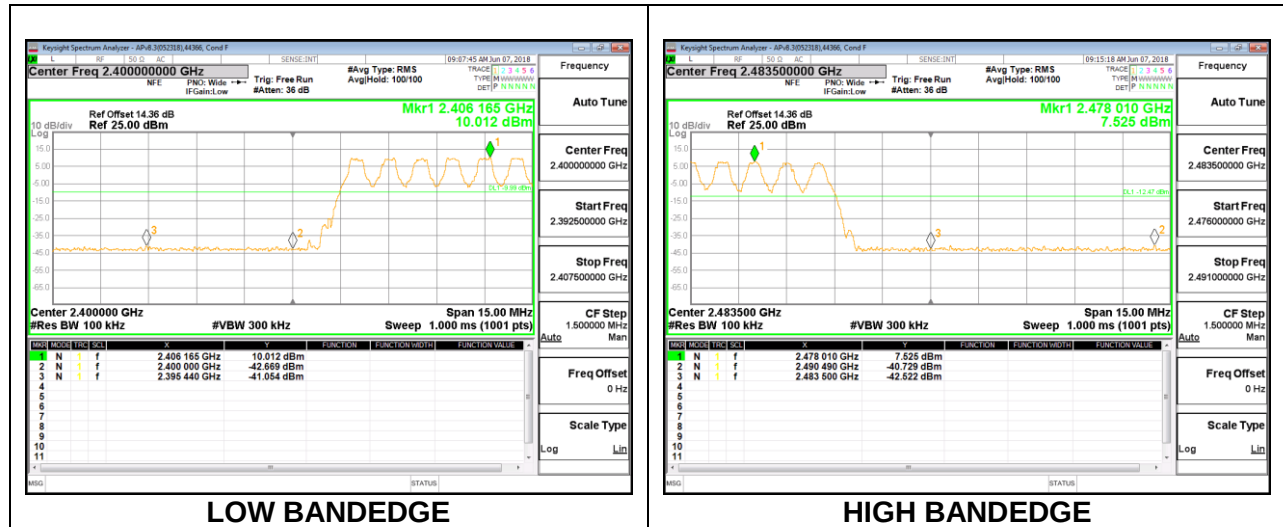
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

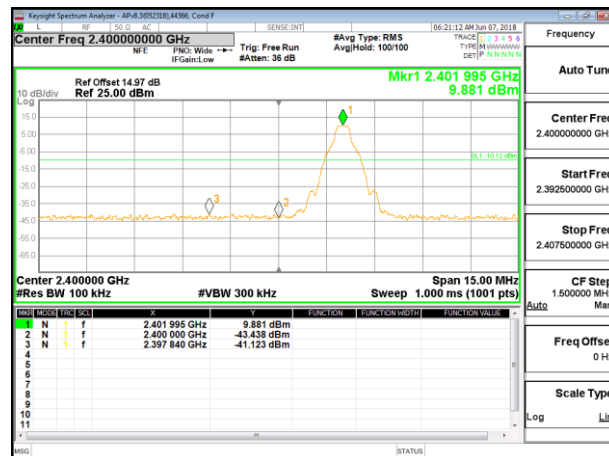
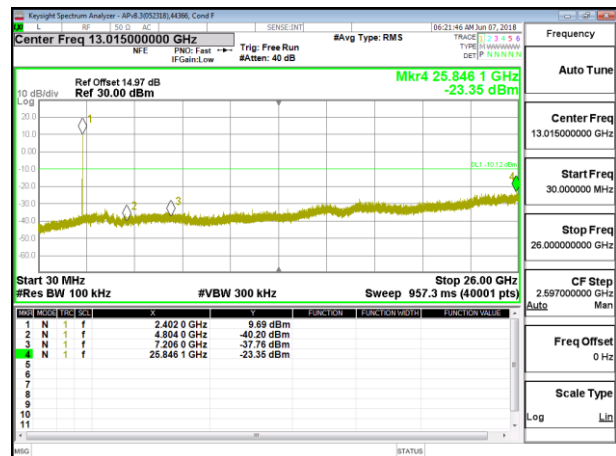
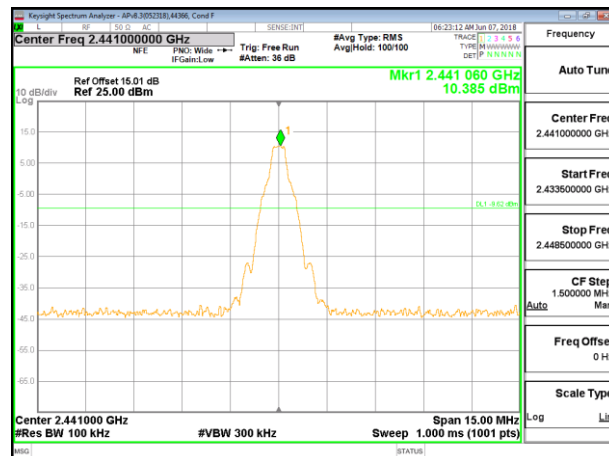
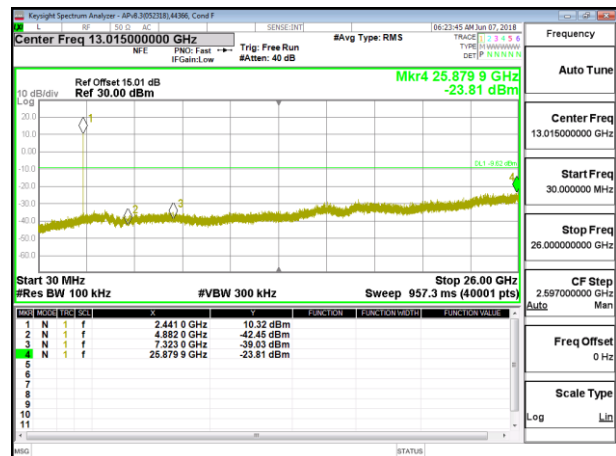
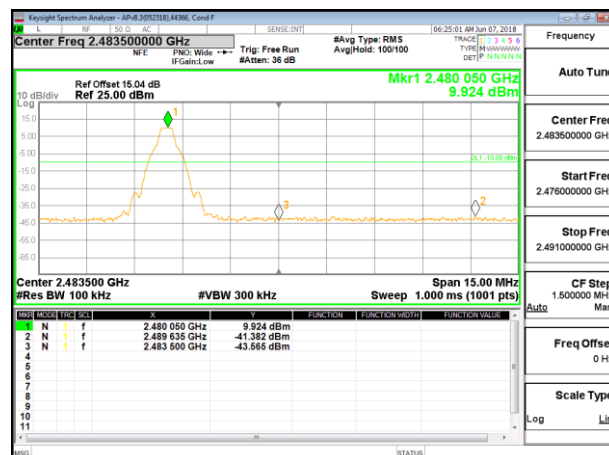
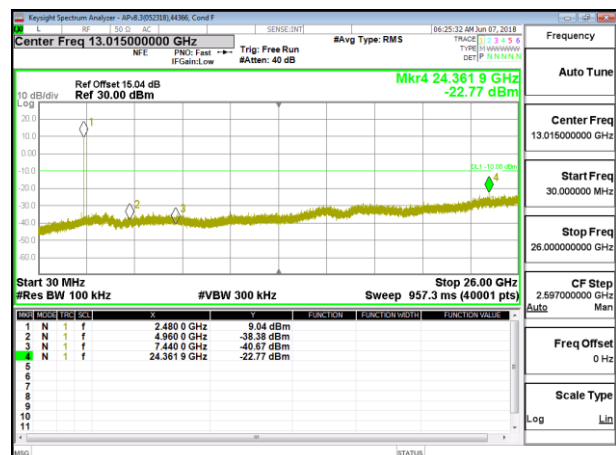
Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

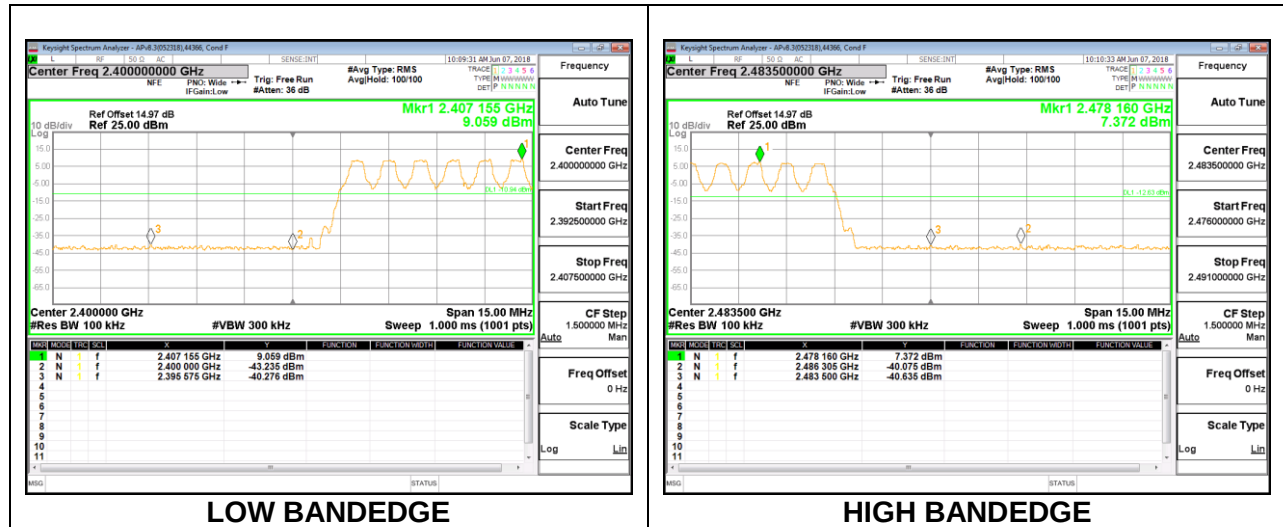
8.8.3. LOW POWER BASIC DATA RATE GFSK MODULATION

Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



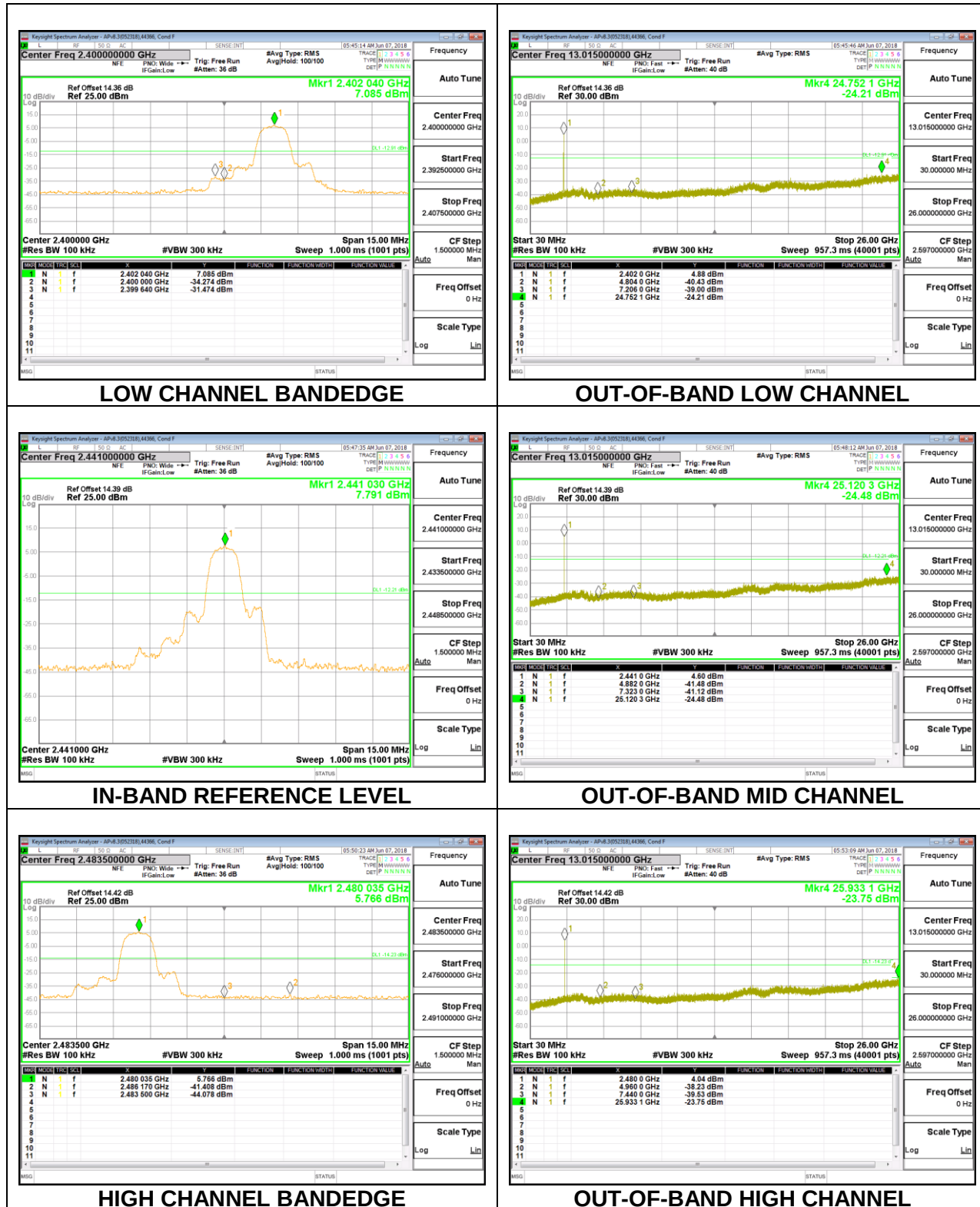
Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

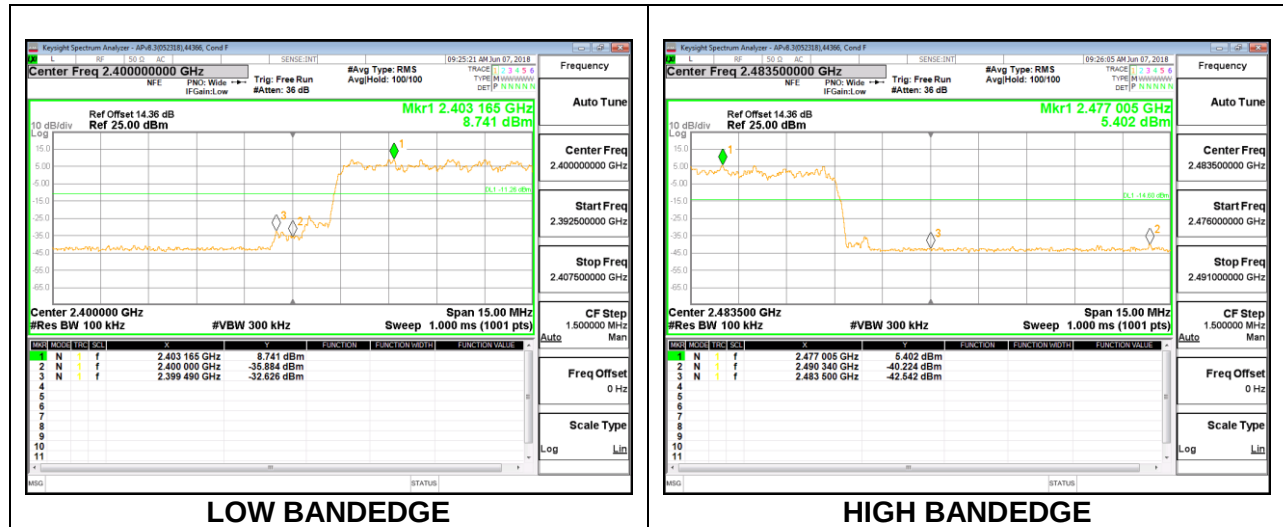
Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

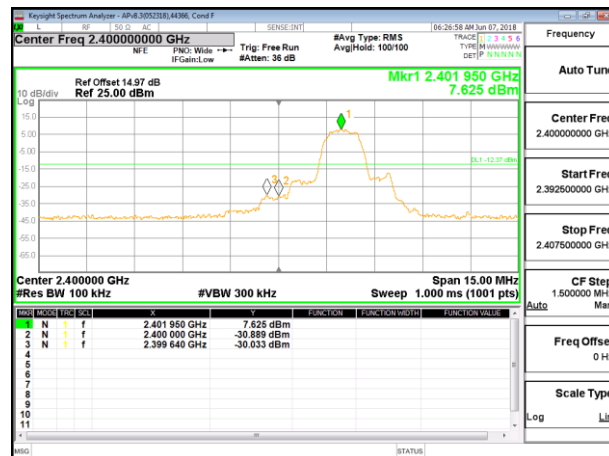
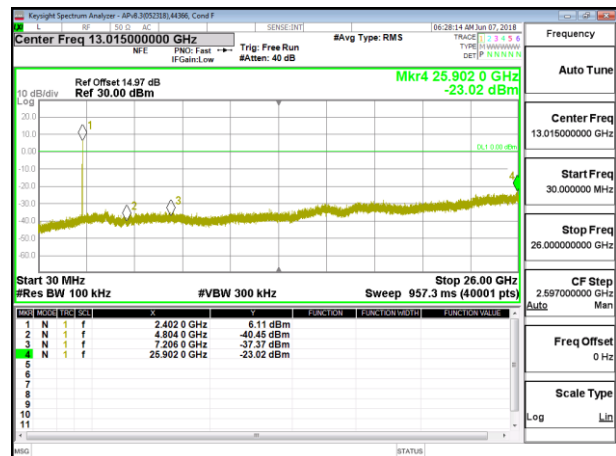
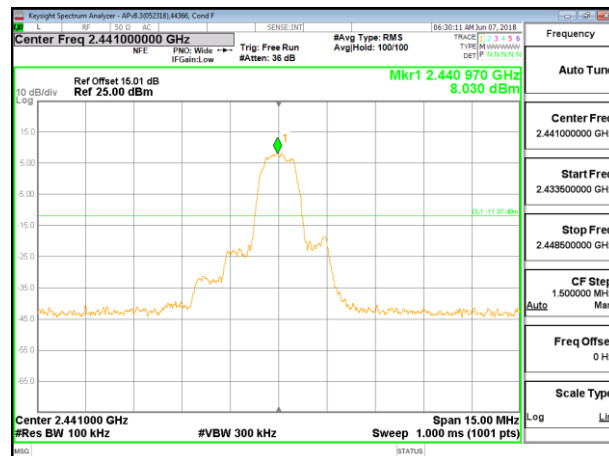
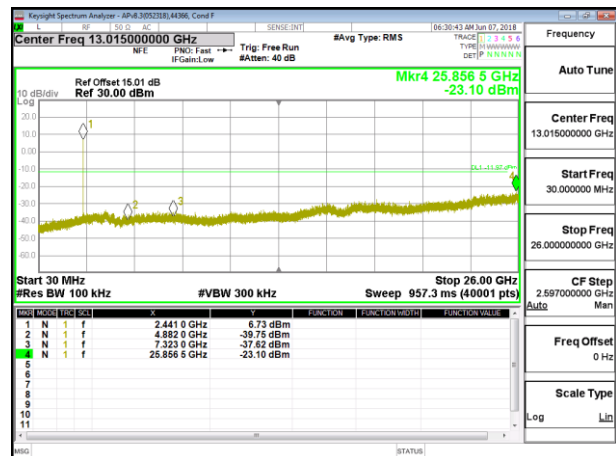
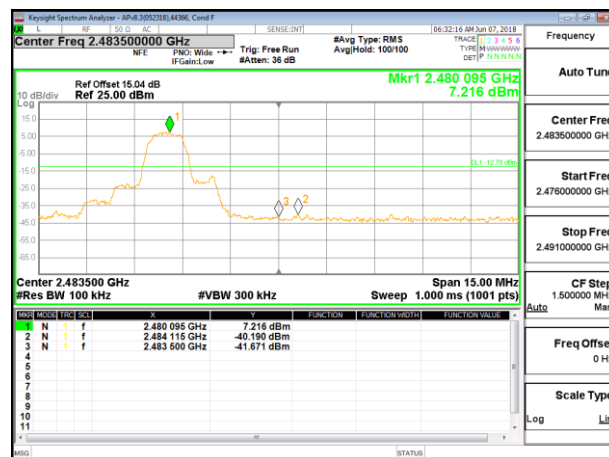
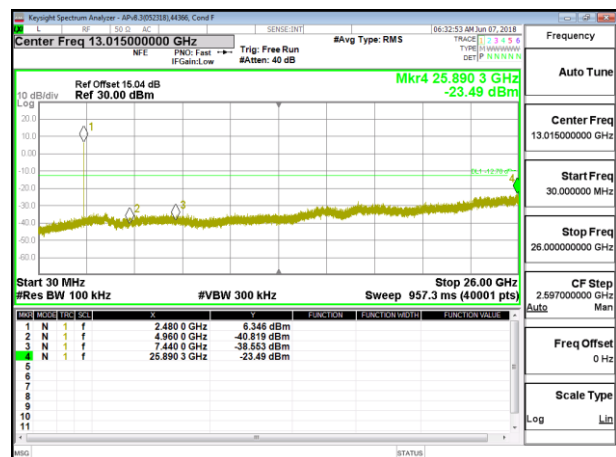
Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

8.8.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

Antenna 2 SPURIOUS EMISSIONS, NON-HOPPING



Antenna 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON

Antenna 5 SPURIOUS EMISSIONS, NON-HOPPING**LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

Antenna 5 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON