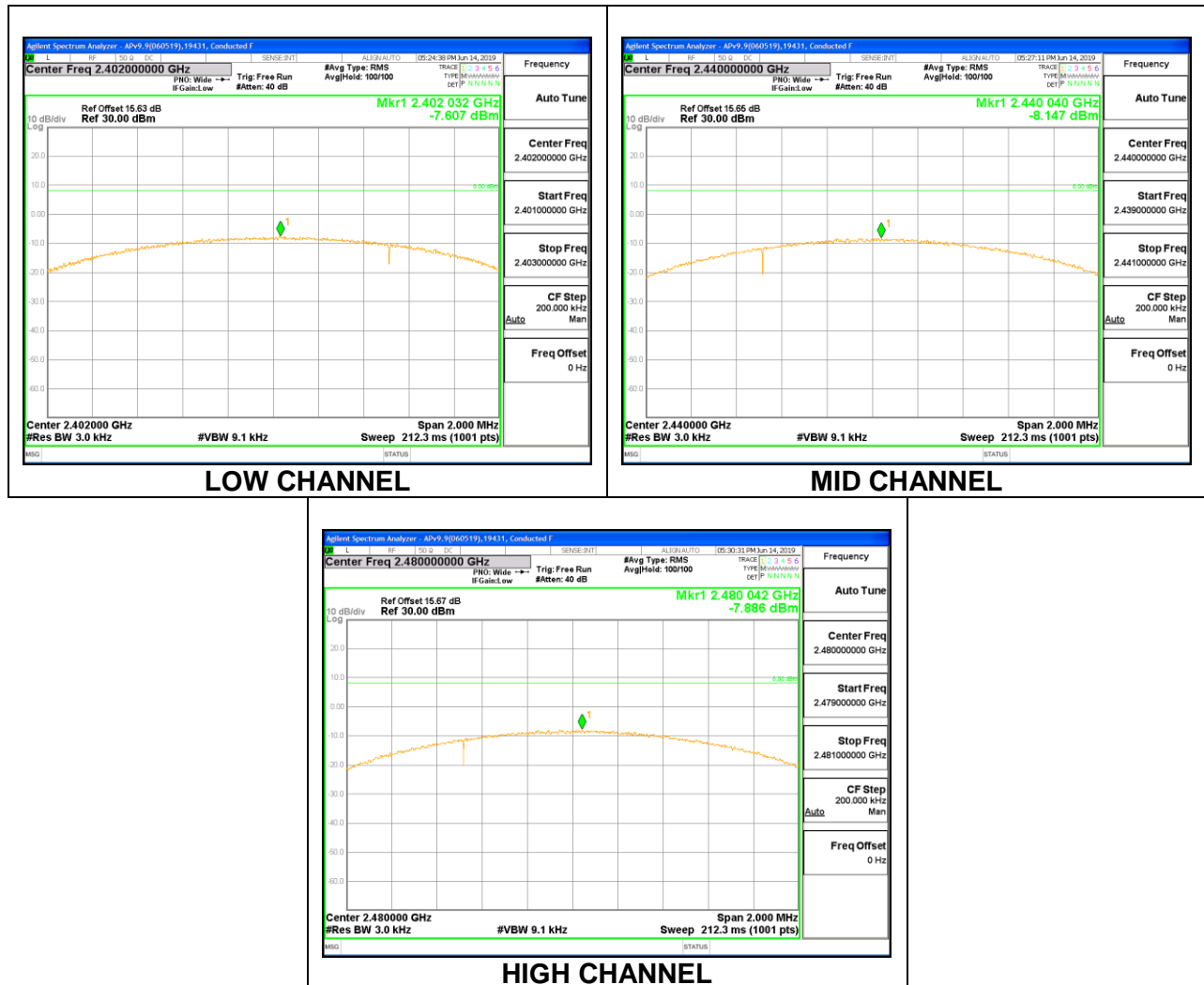


## 8.6.4. Low Power BLE (2Mbps)

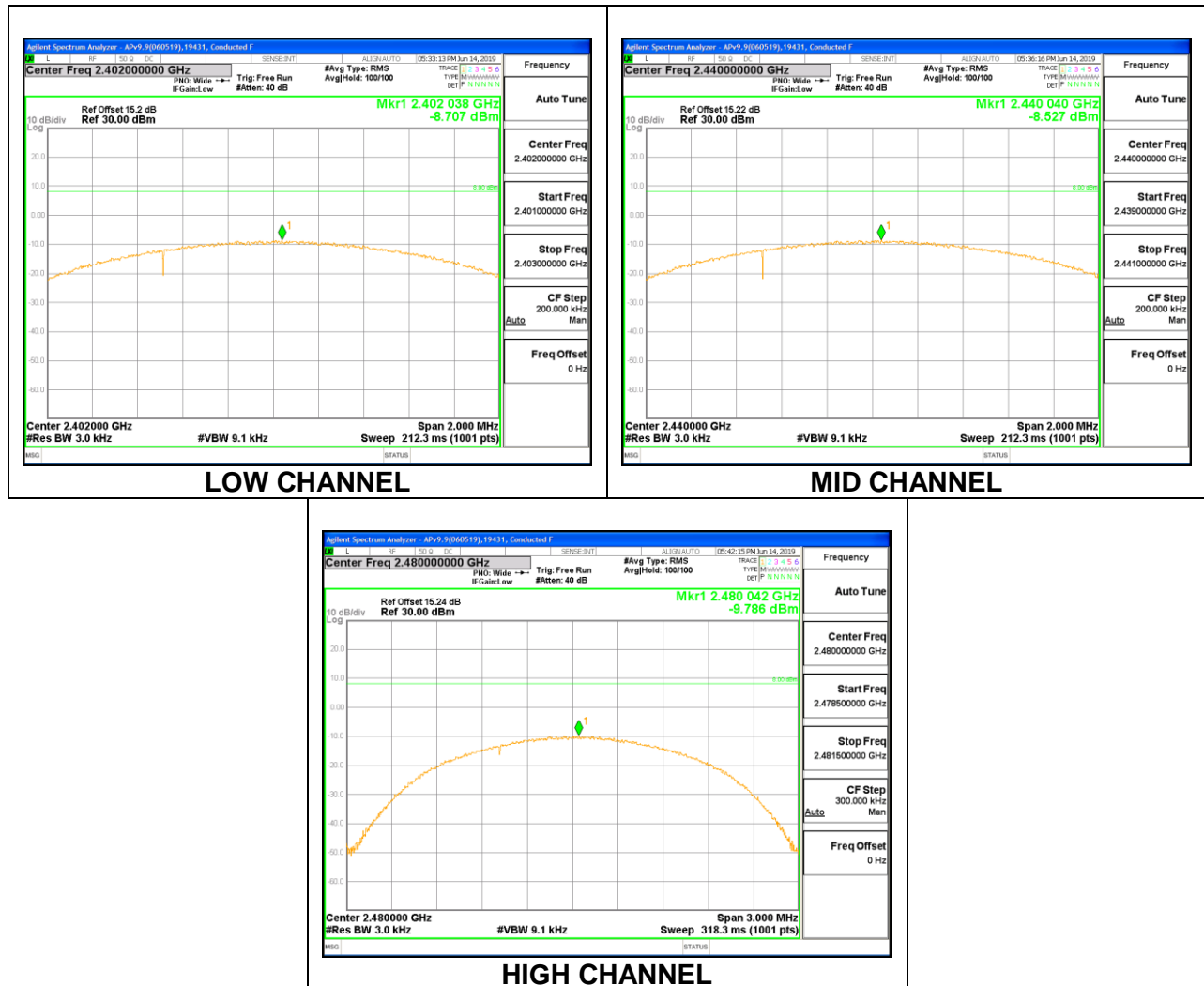
### Antenna 4

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2402	-7.607	8	-15.61
Middle	2440	-8.147	8	-16.15
High	2480	-7.886	8	-15.89



### Antenna 3

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2402	-8.707	8	-16.71
Middle	2440	-8.527	8	-16.53
High	2480	-9.786	8	-17.79



---

## **8.6 CONDUCTED SPURIOUS EMISSIONS**

### **LIMITS**

FCC §15.247 (d)

RSS-247 5.5

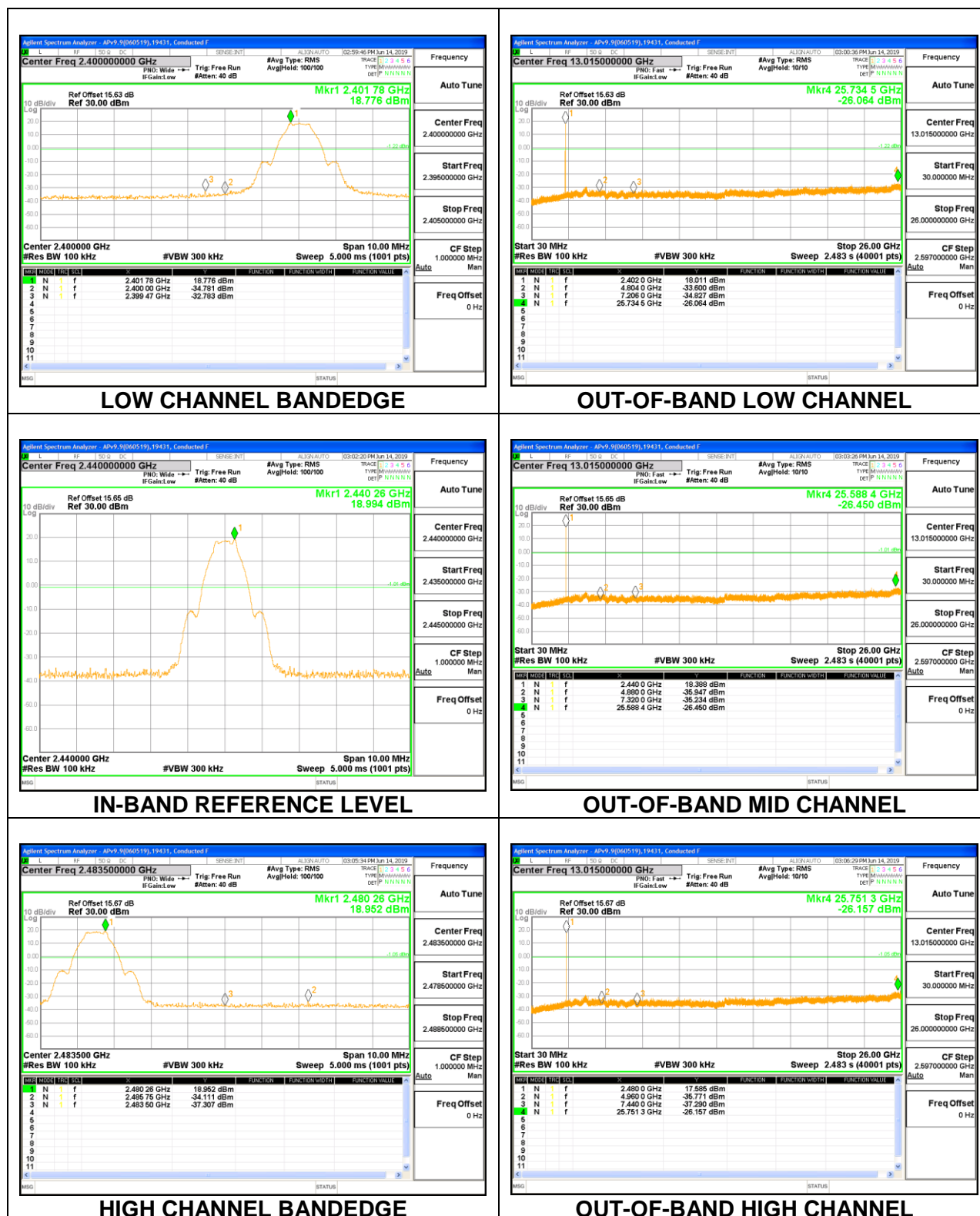
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

Note: Test procedures and setting are same as BLE normal mode.

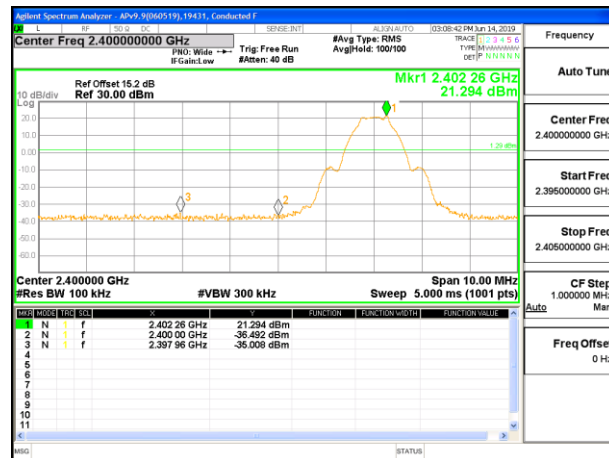
### **RESULTS**

## 8.6.1 High Power BLE (1Mbps)

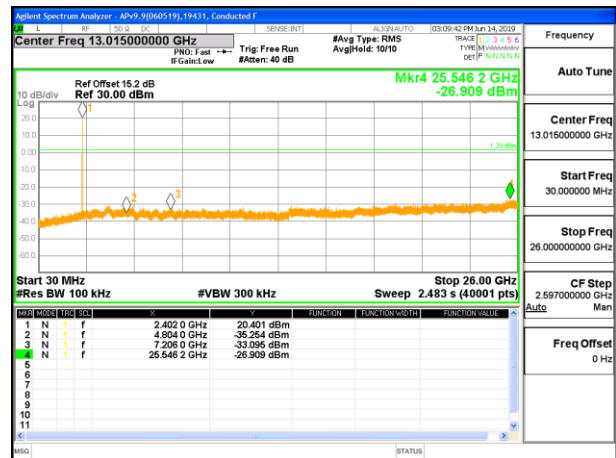
### Antenna 4



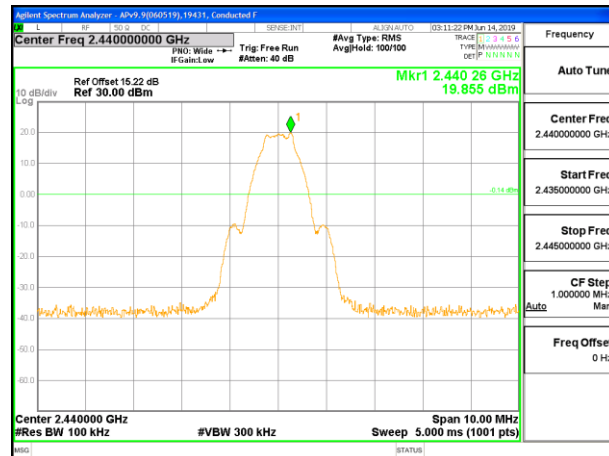
### Antenna 3



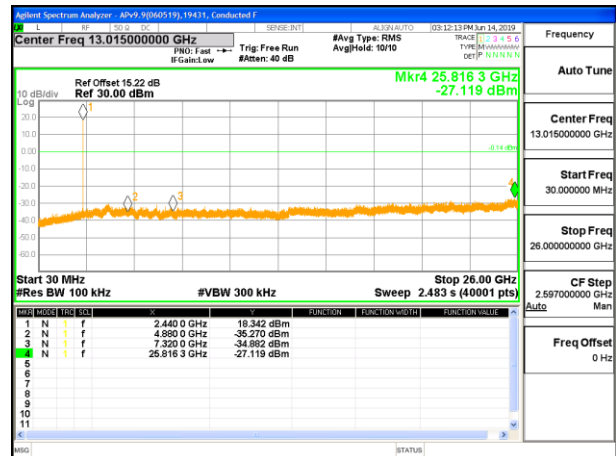
LOW CHANNEL BANDEDGE



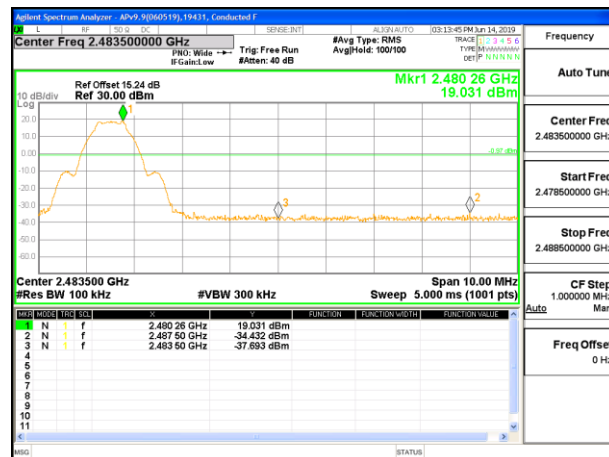
OUT-OF-BAND LOW CHANNEL



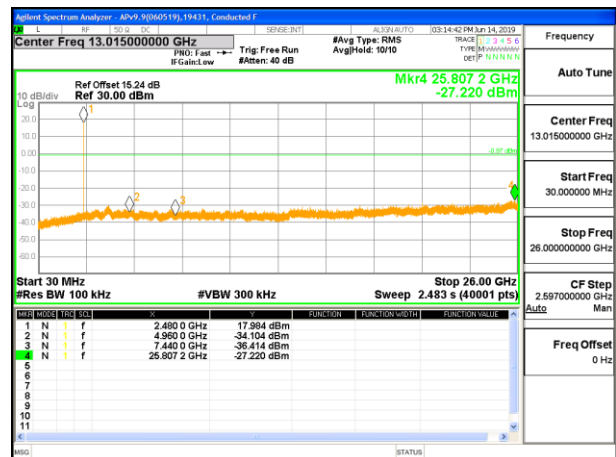
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



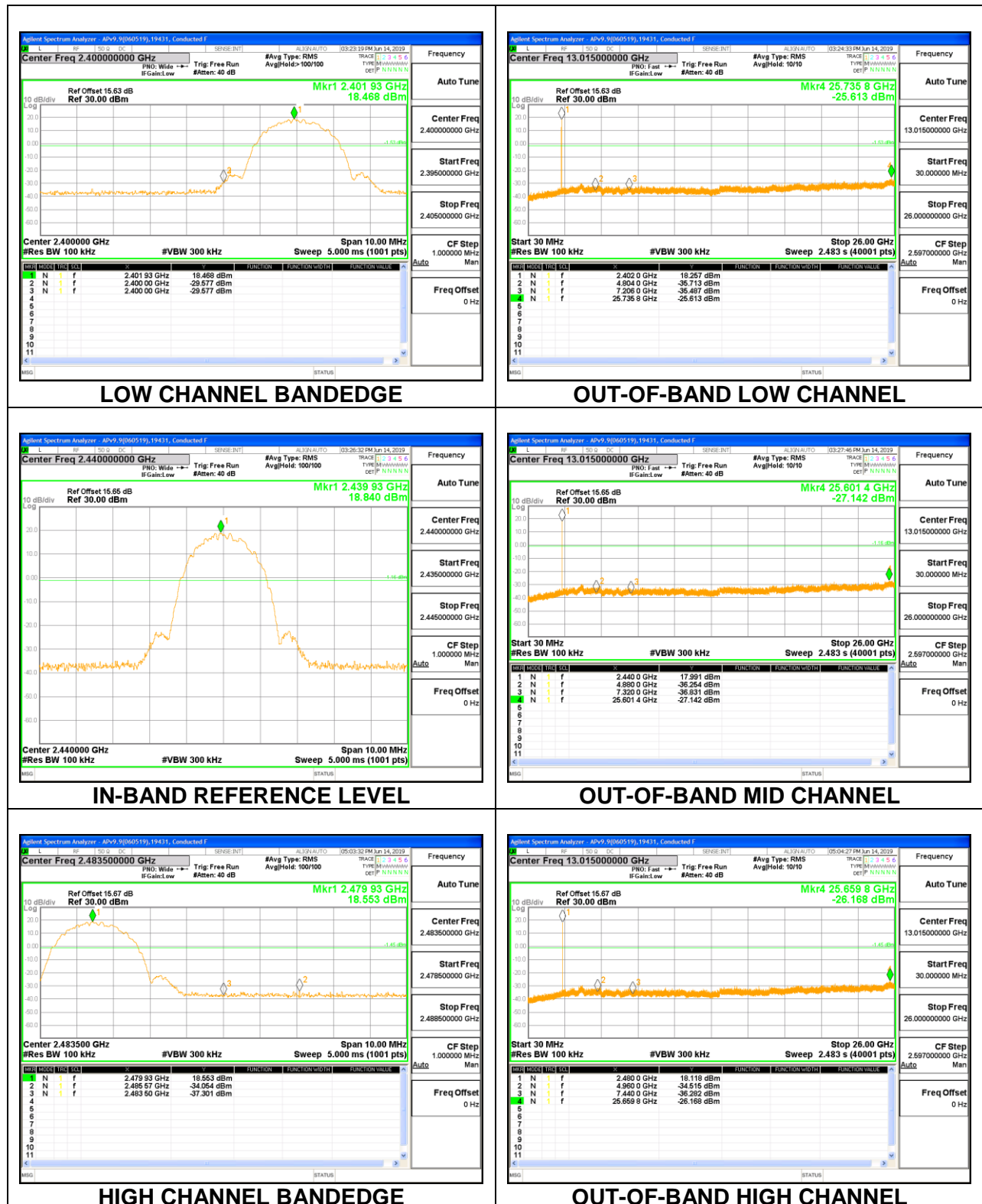
HIGH CHANNEL BANDEDGE



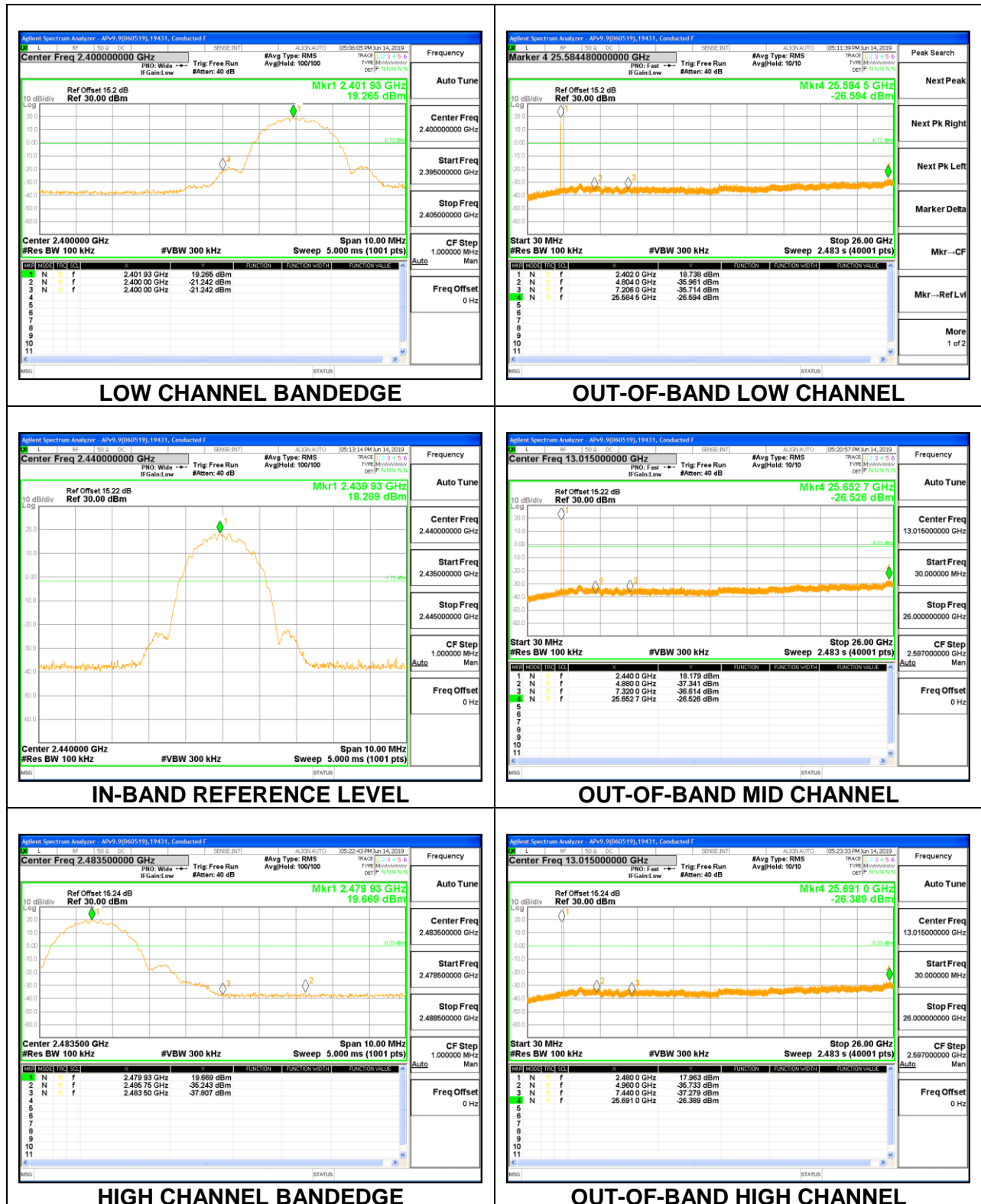
OUT-OF-BAND HIGH CHANNEL

## 8.6.2 High Power BLE (2Mbps)

### Antenna 4

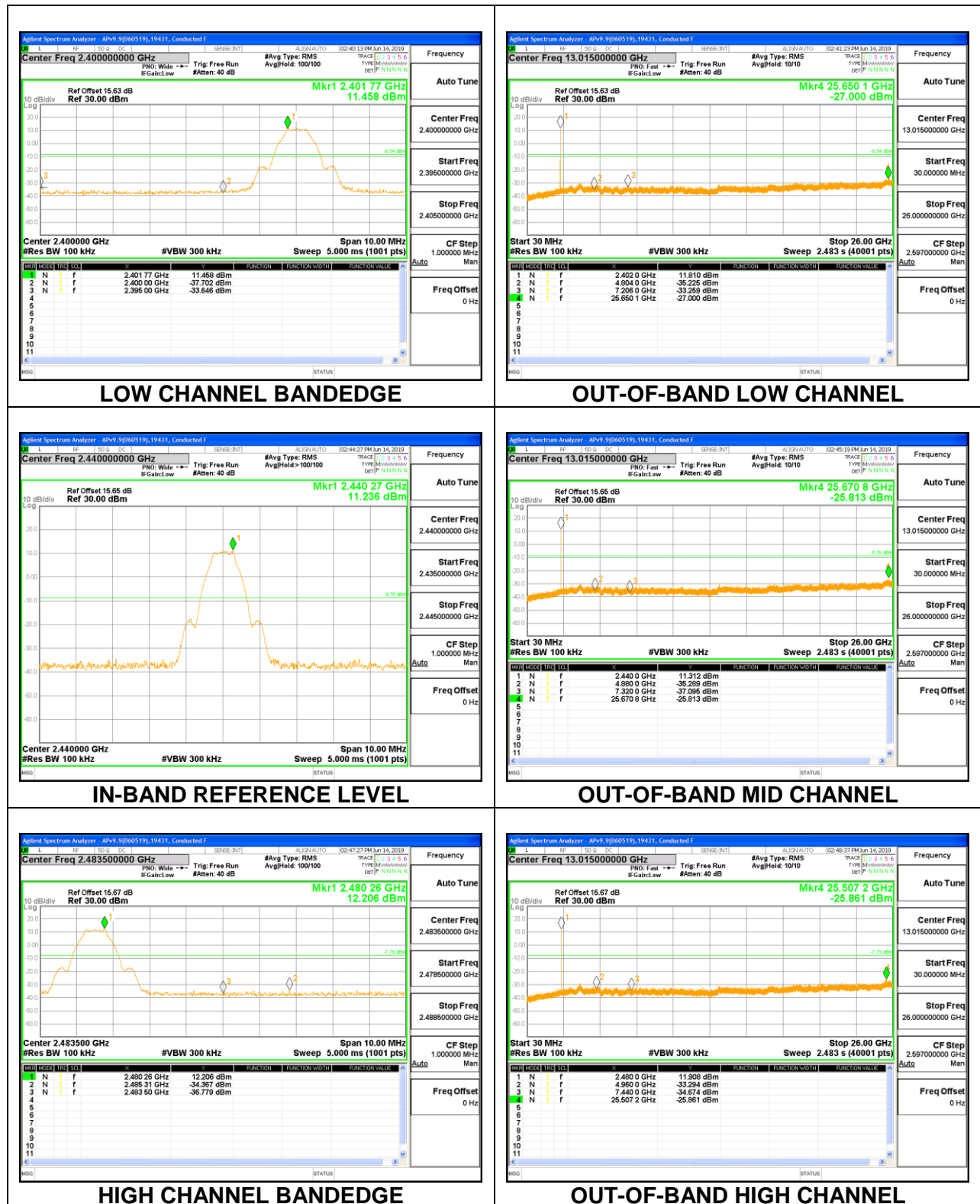


### Antenna 3



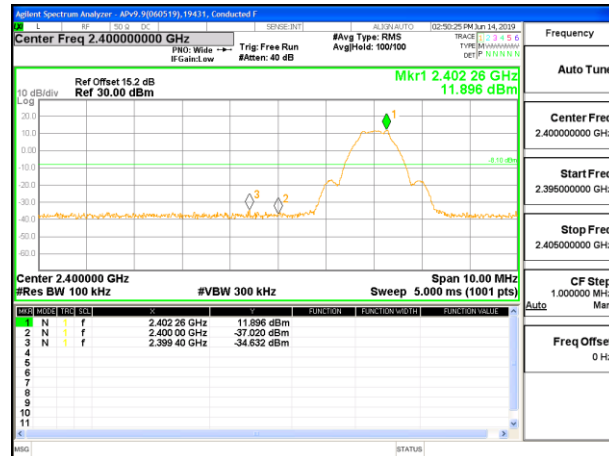
## 8.6.3 Low Power BLE (1Mbps)

### Antenna 4

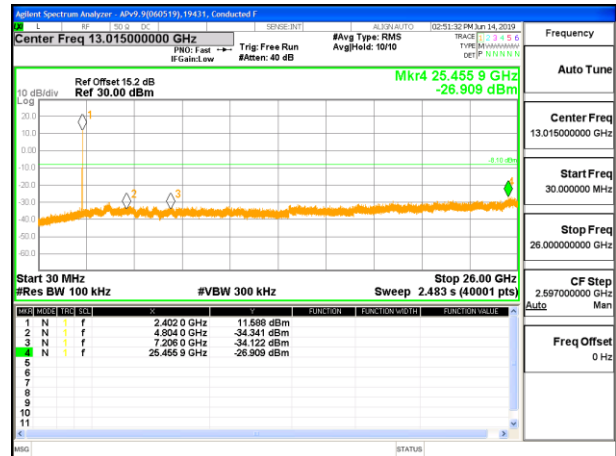




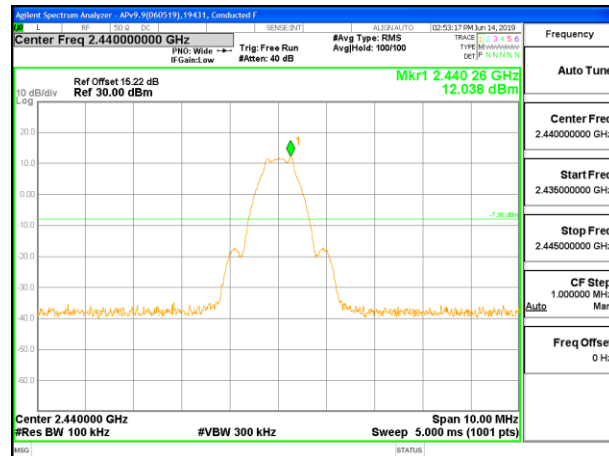
### Antenna 3



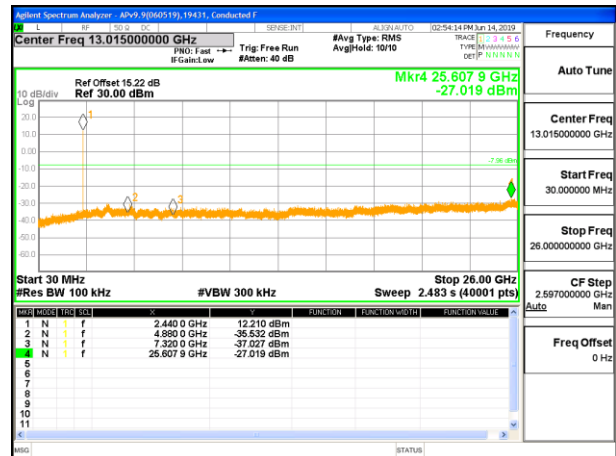
LOW CHANNEL BANDEDGE



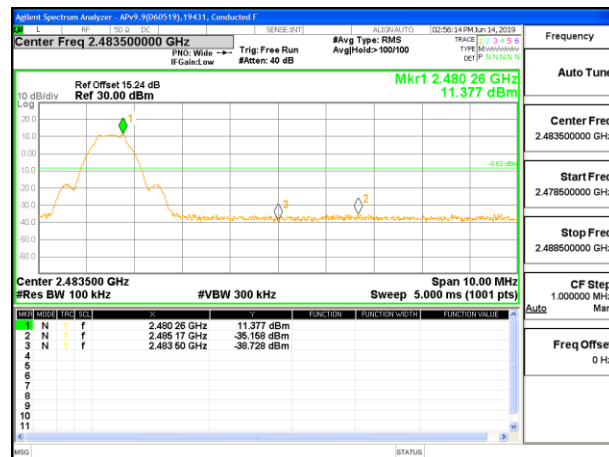
OUT-OF-BAND LOW CHANNEL



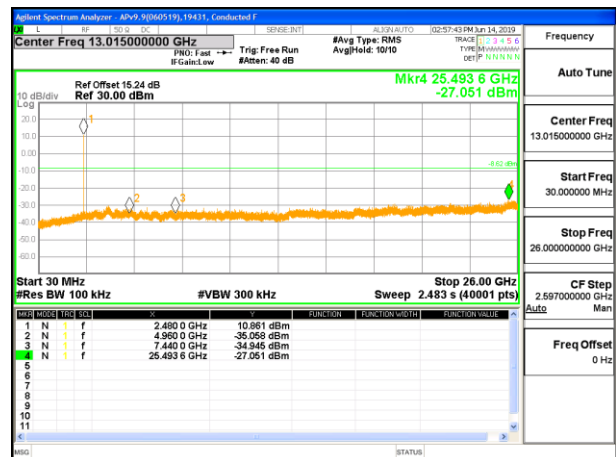
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



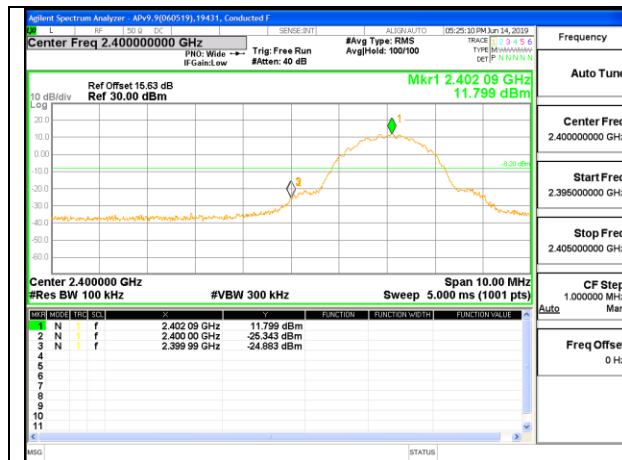
HIGH CHANNEL BANDEDGE



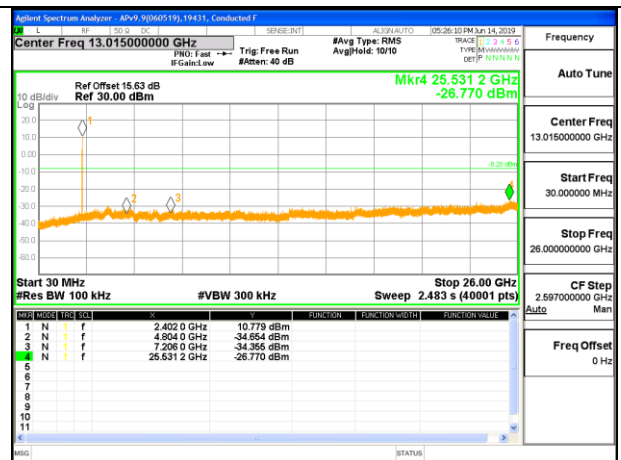
OUT-OF-BAND HIGH CHANNEL

## 8.6.4 Low Power BLE (2Mbps)

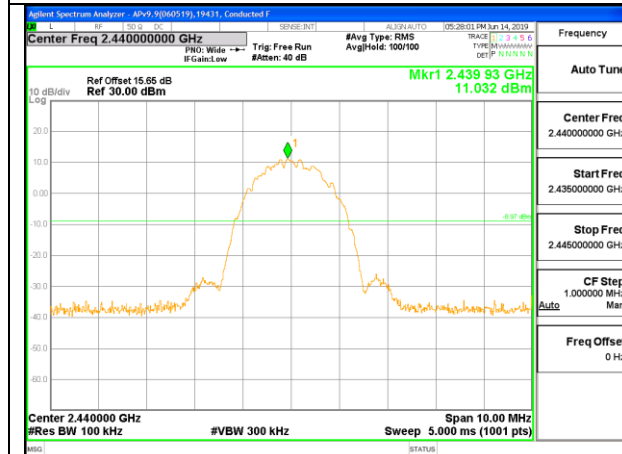
### Antenna 4



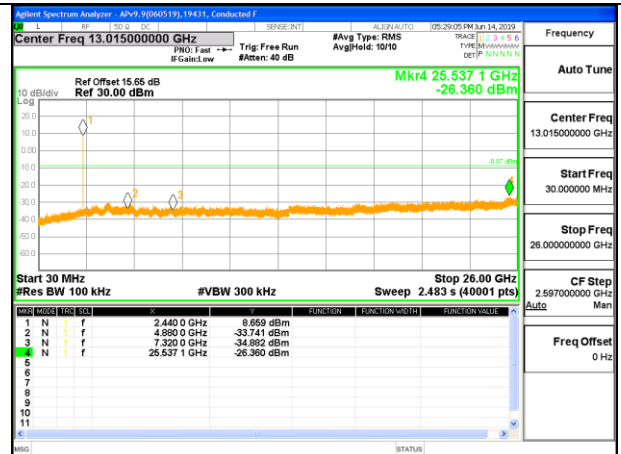
LOW CHANNEL BANDEDGE



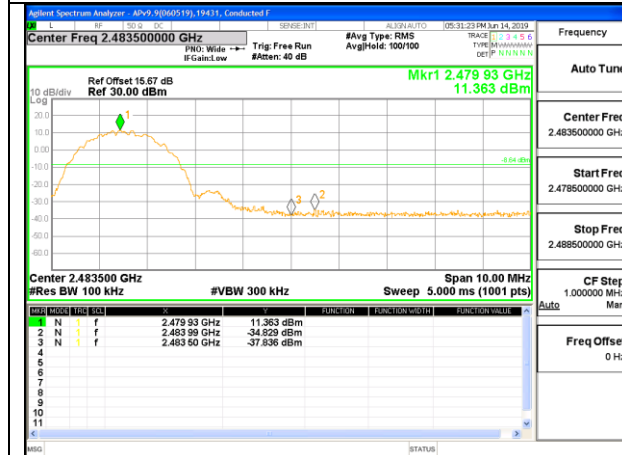
OUT-OF-BAND LOW CHANNEL



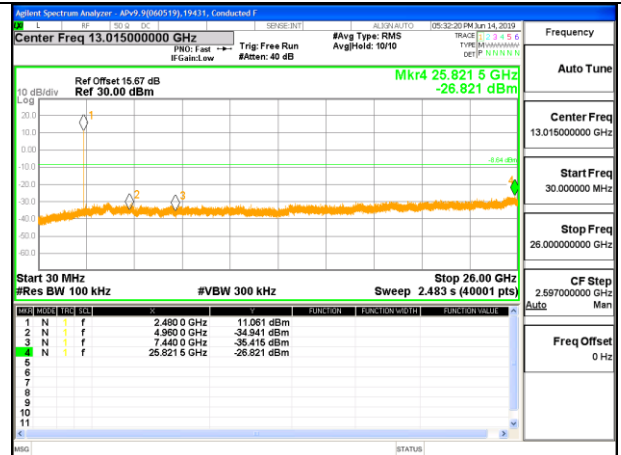
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

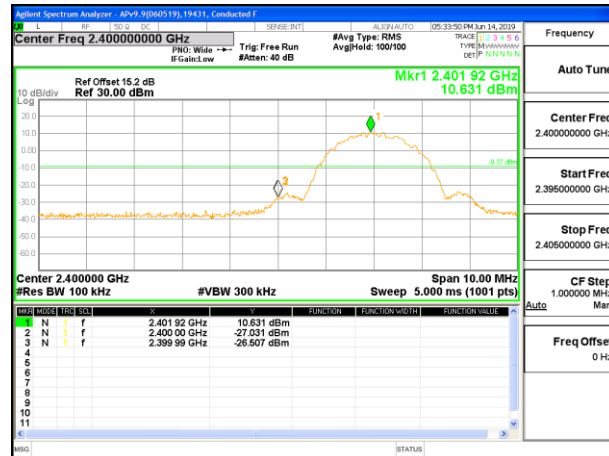


HIGH CHANNEL BANDEDGE

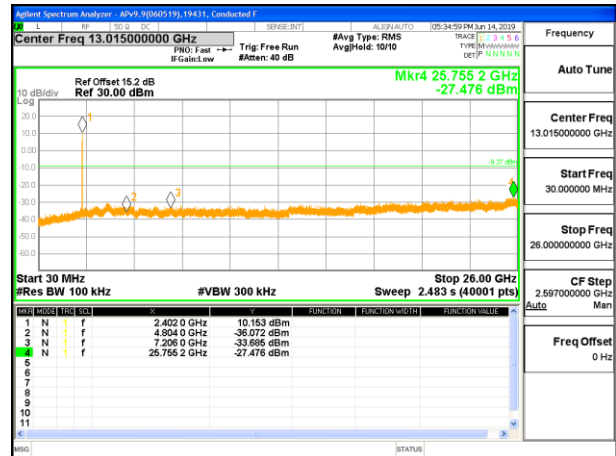


OUT-OF-BAND HIGH CHANNEL

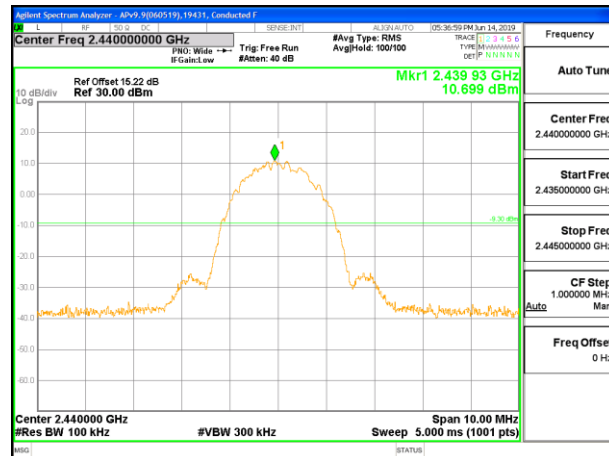
### Antenna 3



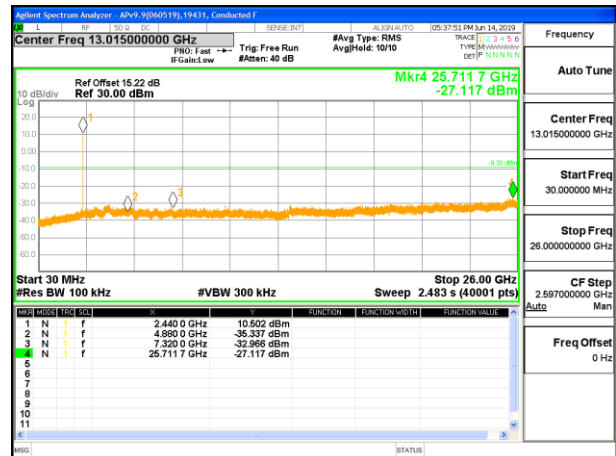
LOW CHANNEL BANDEDGE



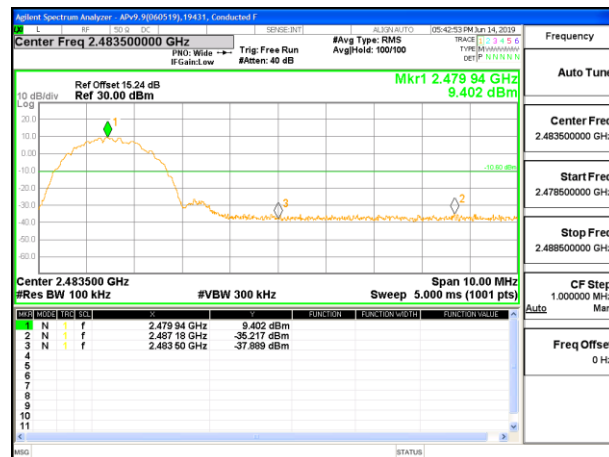
OUT-OF-BAND LOW CHANNEL



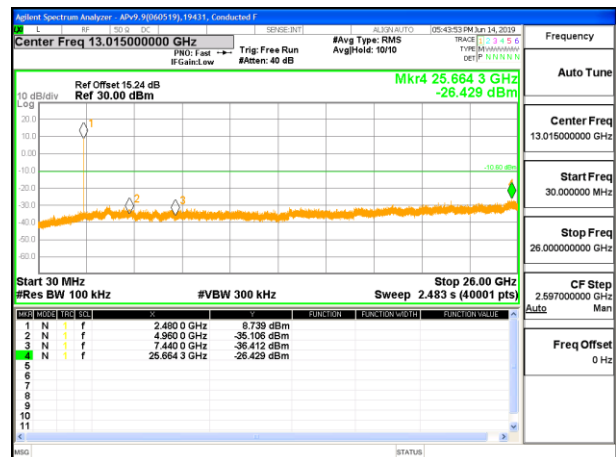
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

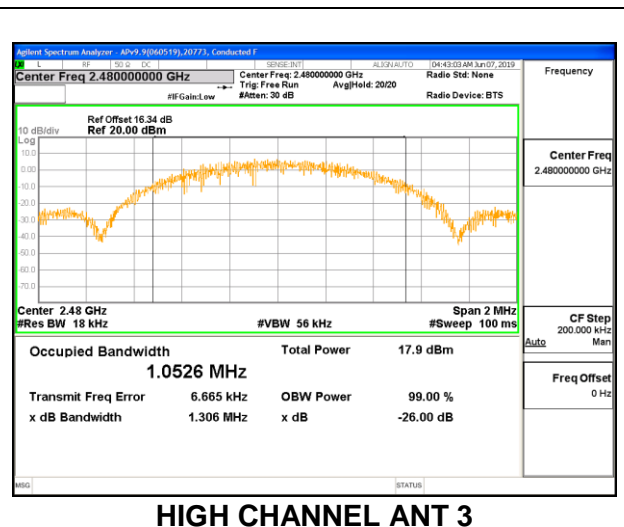
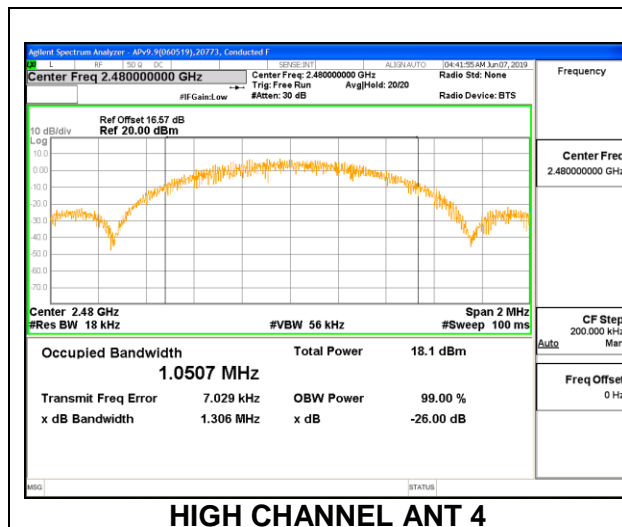
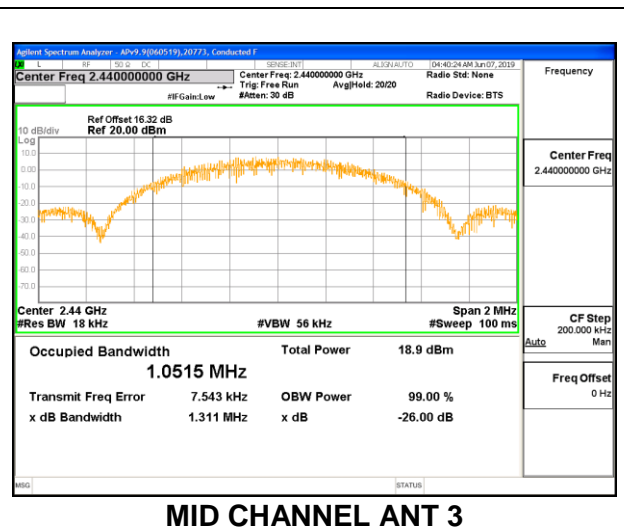
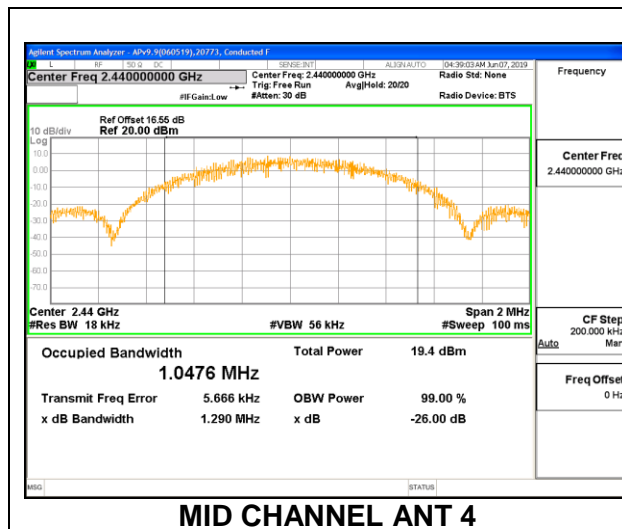
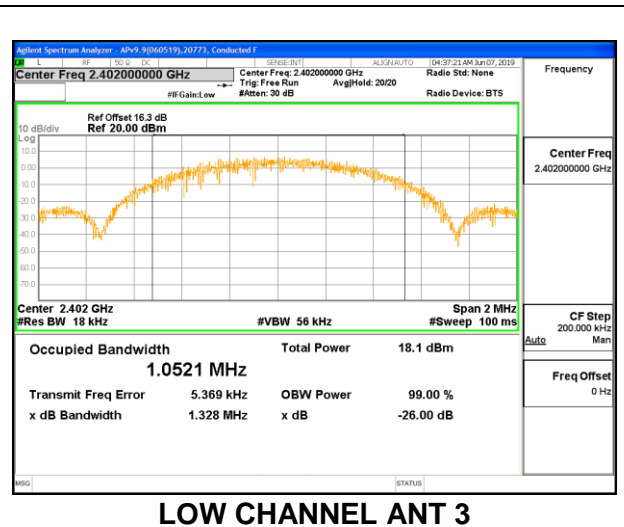
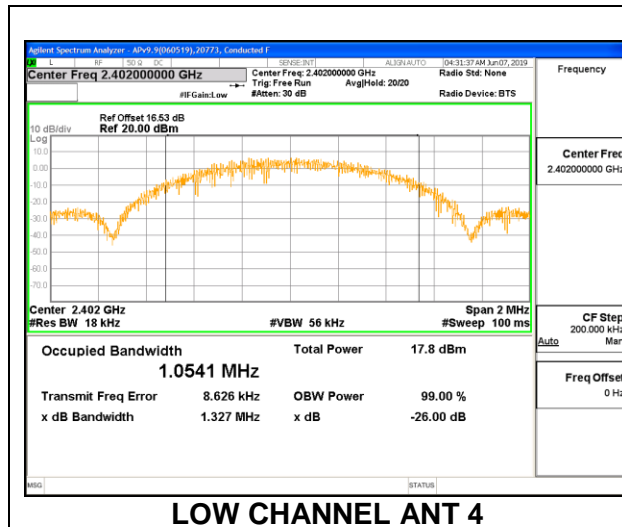
## **8.7 BEAMFORMING, 99% BANDWIDTH**

### **8.7.1 HIGH POWER BLE (1Mbps)**

Note: Test procedures and setting are same as BLE normal mode.

#### **2TX Antenna 4 + Antenna 3 TxBF MODE**

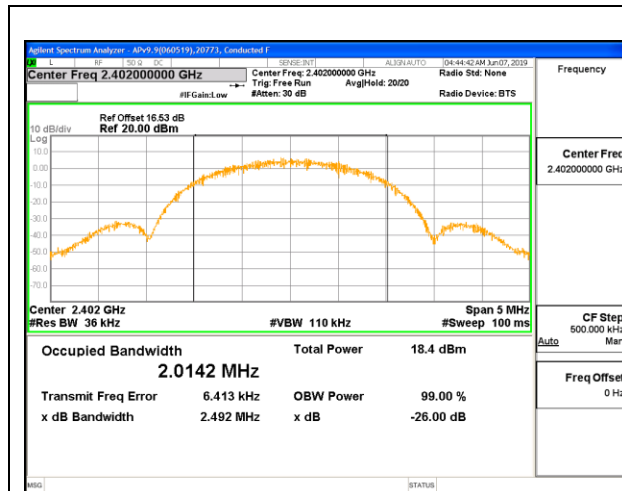
Channel	Frequency (MHz)	99% Bandwidth ANT 4 (MHz)	99% Bandwidth ANT 3 (MHz)
Low	2402	1.0541	1.0521
Mid	2440	1.0476	1.0515
High	2480	1.0507	1.0526



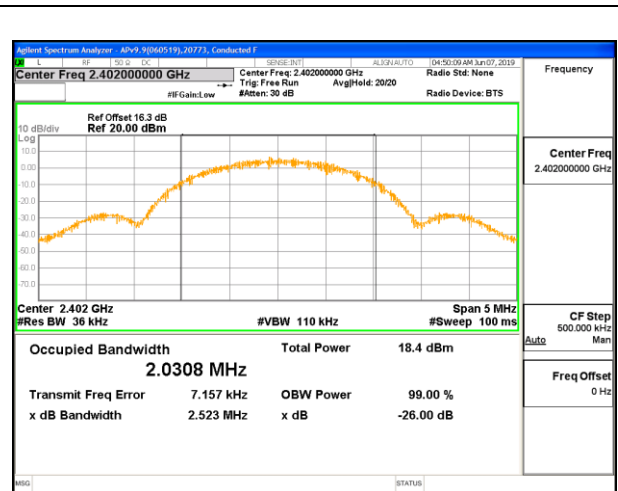
## 8.7.2 HIGH POWER BLE (2Mbps)

### 2TX Antenna 4 + Antenna 3 TxBF MODE

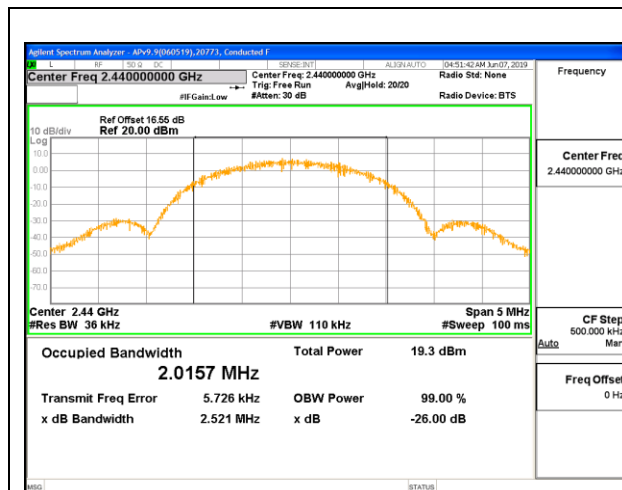
Channel	Frequency (MHz)	99% Bandwidth ANT 4 (MHz)	99% Bandwidth ANT 3 (MHz)
Low	2402	2.0142	2.0308
Mid	2440	2.0157	2.0297
High	2480	2.0142	2.0271



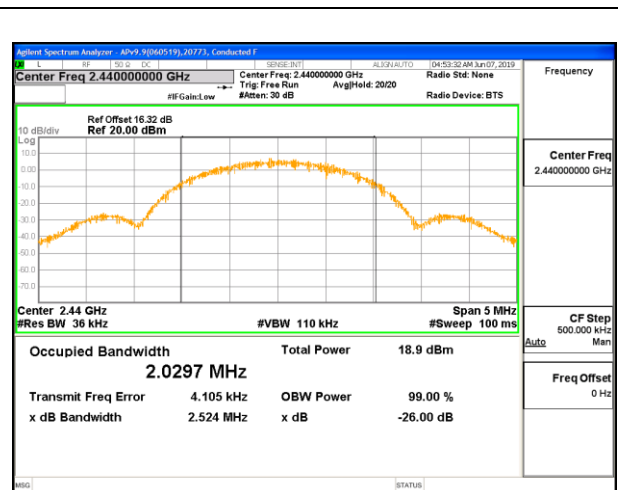
LOW CHANNEL ANT 4



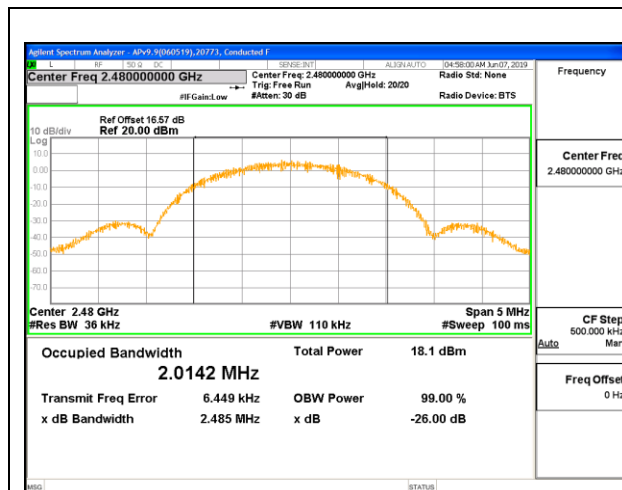
LOW CHANNEL ANT 3



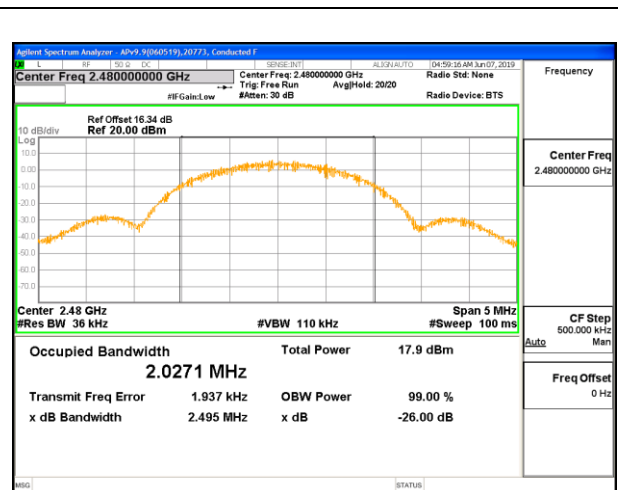
MID CHANNEL ANT 4



MID CHANNEL ANT 3



HIGH CHANNEL ANT 4



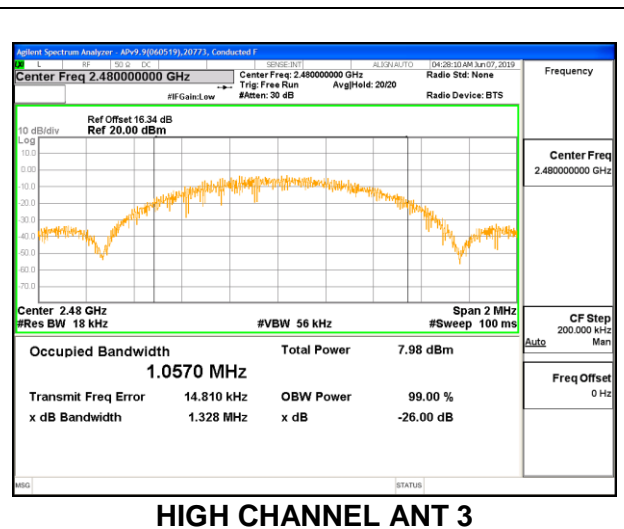
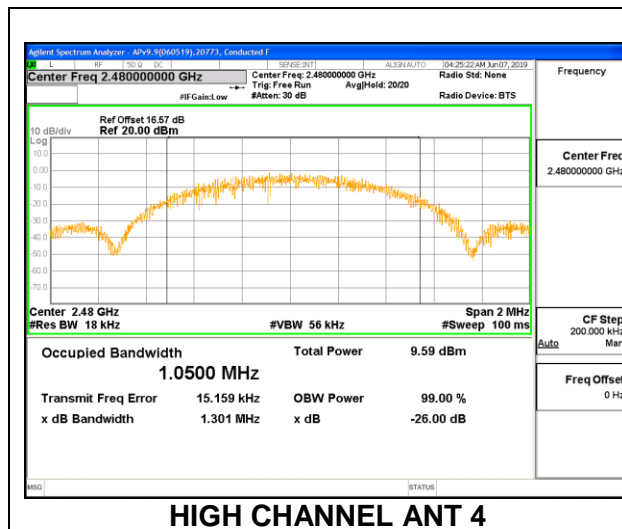
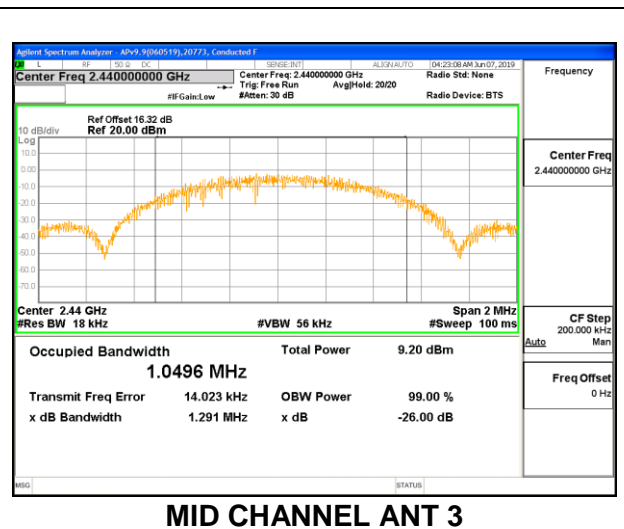
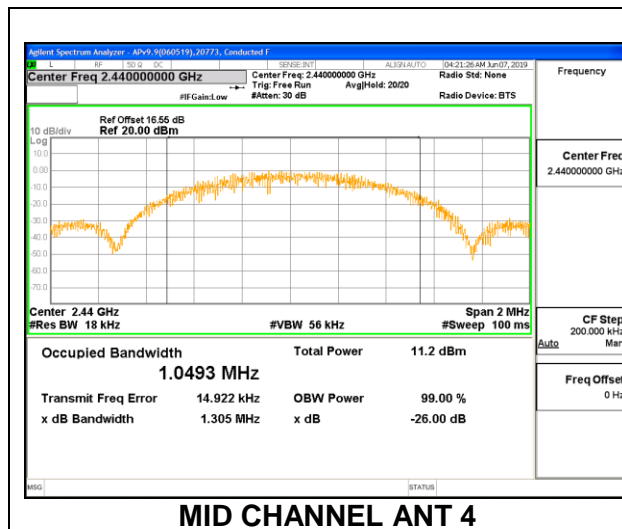
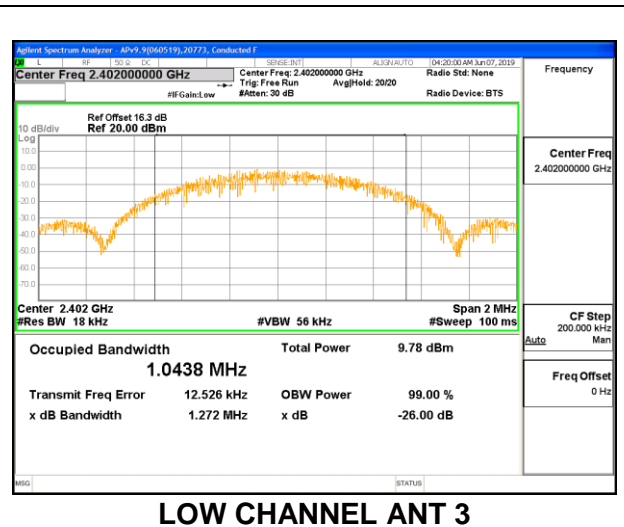
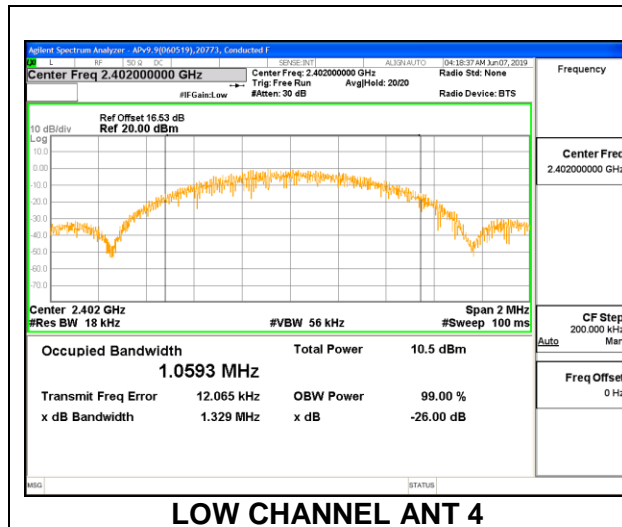
HIGH CHANNEL ANT 3

### 8.7.3 LOW POWER BLE (1Mbps)

#### 2TX Antenna 4 + Antenna 3 TxBF MODE

Channel	Frequency (MHz)	99% Bandwidth ANT 4 (MHz)	99% Bandwidth ANT 3 (MHz)
Low	2402	1.0593	1.0438
Mid	2440	1.0493	1.0496
High	2480	1.0500	1.0570





#### **8.7.4 LOW POWER BLE (2Mbps)**

##### **2TX Antenna 4 + Antenna 3 TxBF MODE**

Channel	Frequency (MHz)	99% Bandwidth ANT 4 (MHz)	99% Bandwidth ANT 3 (MHz)
Low	2402	2.0126	2.0187
Mid	2440	2.0209	2.0200
High	2480	2.0221	2.0157