

**8.5.1. HIGH POWER HDR (HDR4)****Antenna 2**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency</b>	<b>AV power</b>
	<b>(MHz)</b>	<b>(dBm)</b>
Low	2404	11.73
Middle	2441	11.75
High	2478	11.72

**Antenna 5**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency</b>	<b>AV power</b>
	<b>(MHz)</b>	<b>(dBm)</b>
Low	2404	11.75
Middle	2441	11.76
High	2478	11.73

**8.5.2. HIGH POWER HDR (HDR8)****Antenna 2**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency</b>	<b>AV power</b>
	<b>(MHz)</b>	<b>(dBm)</b>
Low	2404	11.58
Middle	2441	11.62
High	2478	11.55

**Antenna 5**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency</b>	<b>AV power</b>
	<b>(MHz)</b>	<b>(dBm)</b>
Low	2404	11.73
Middle	2441	11.75
High	2478	11.70

**8.5.3. LOW POWER HDR (HDR4)****Antenna 2**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>AV power (dBm)</b>
Low	2404	6.22
Middle	2441	6.24
High	2478	6.25

**Antenna 5**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>AV power (dBm)</b>
Low	2404	6.25
Middle	2441	6.04
High	2478	6.24

**8.5.4. LOW POWER HDR (HDR8)****Antenna 2**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>AV power (dBm)</b>
Low	2404	6.25
Middle	2441	6.18
High	2478	6.21

**Antenna 5**

<b>Tested By:</b>	39316
<b>Date:</b>	6/28/2019

<b>Channel</b>	<b>Frequency (MHz)</b>	<b>AV power (dBm)</b>
Low	2404	6.41
Middle	2441	6.18
High	2478	6.24

**8.6. POWER SPECTRAL DENSITY****LIMITS**

FCC §15.247 (e)

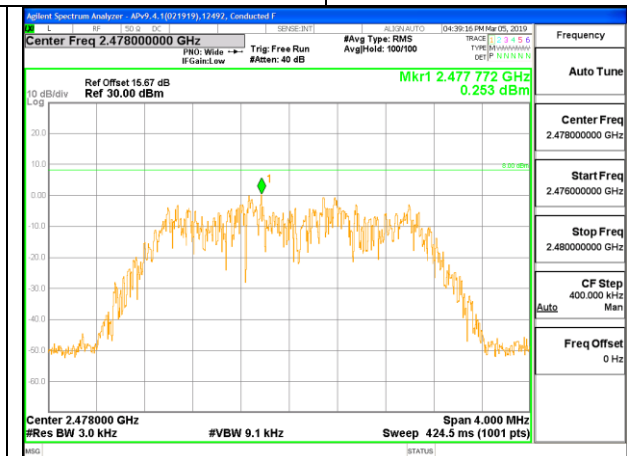
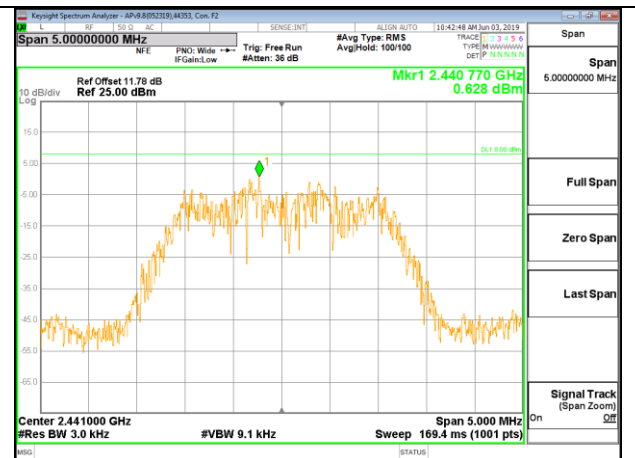
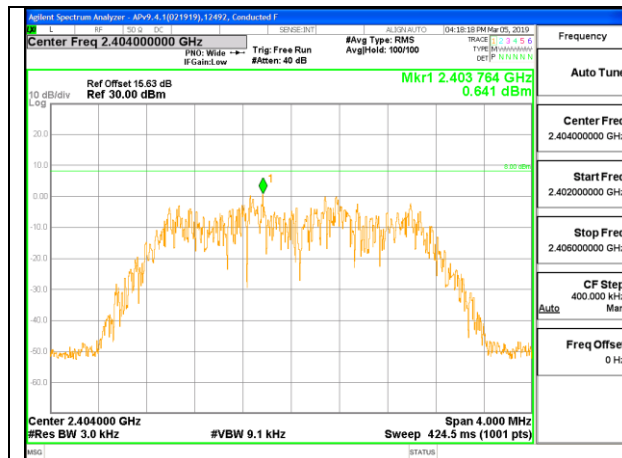
RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

**RESULTS**

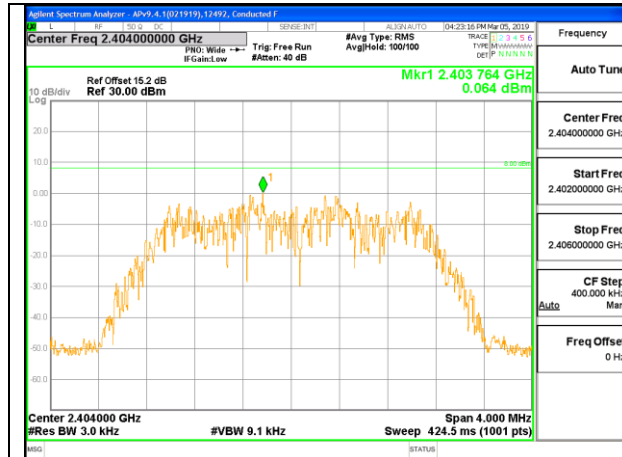
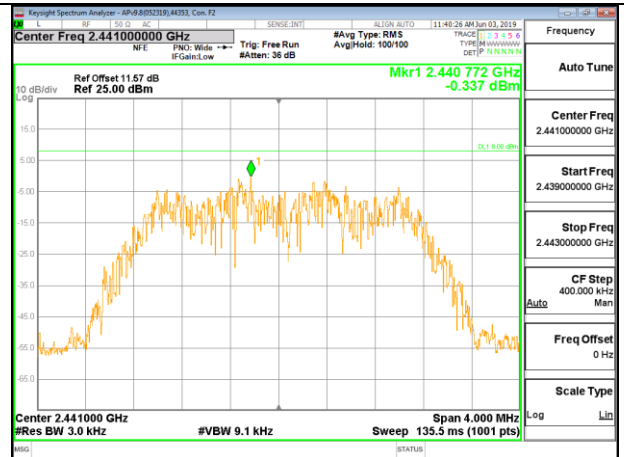
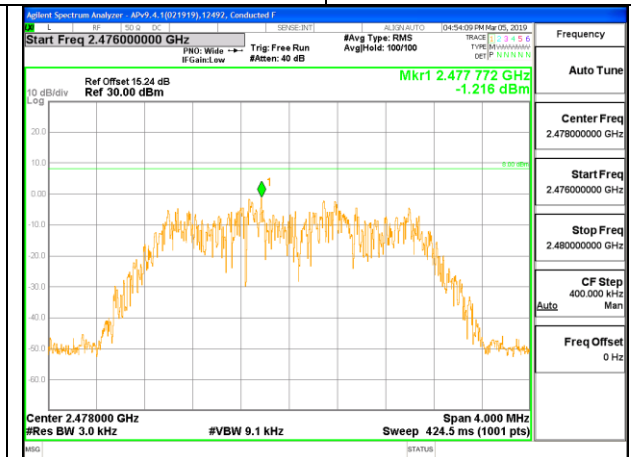
**8.6.1. HIGH POWER HDR (HDR4)****Antenna 2**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	0.64	8	-7.36
Middle	2441	0.63	8	-7.37
High	2478	0.25	8	-7.75



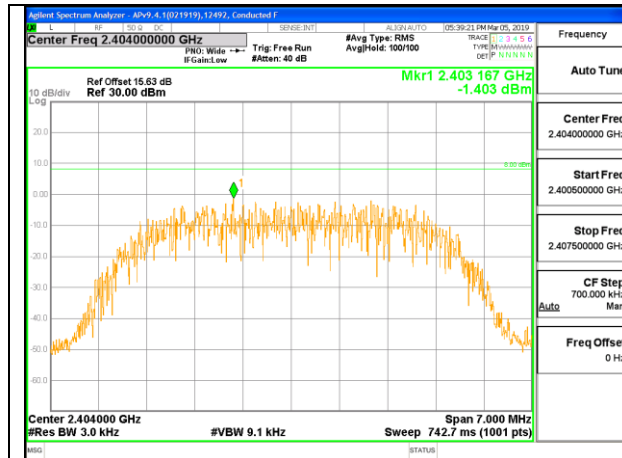
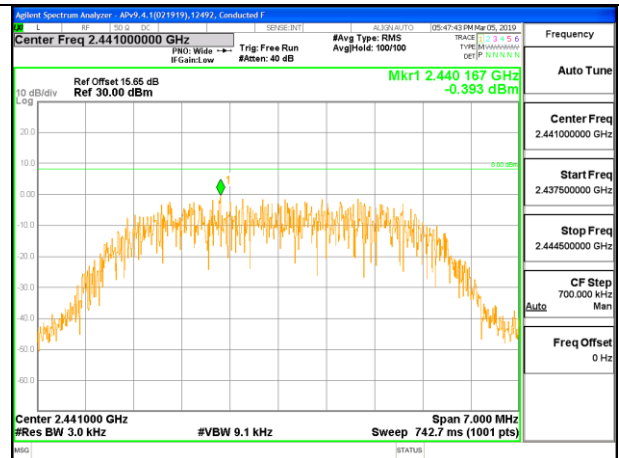
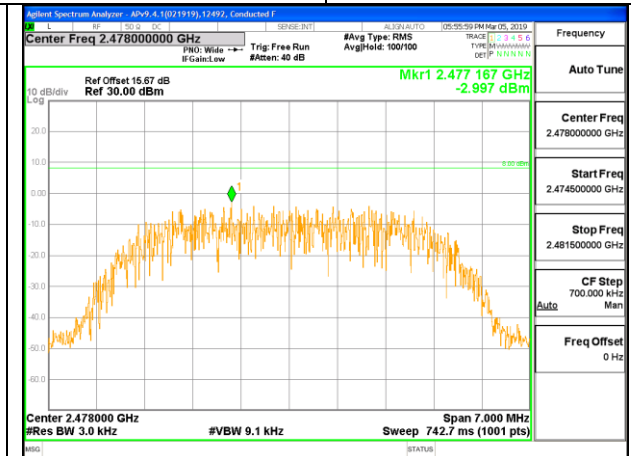
**Antenna 5**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	0.06	8	-7.94
Middle	2441	-0.34	8	-8.34
High	2478	-1.22	8	-9.22

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**

**8.6.2. HIGH POWER HDR (HDR8)****Antenna 2**

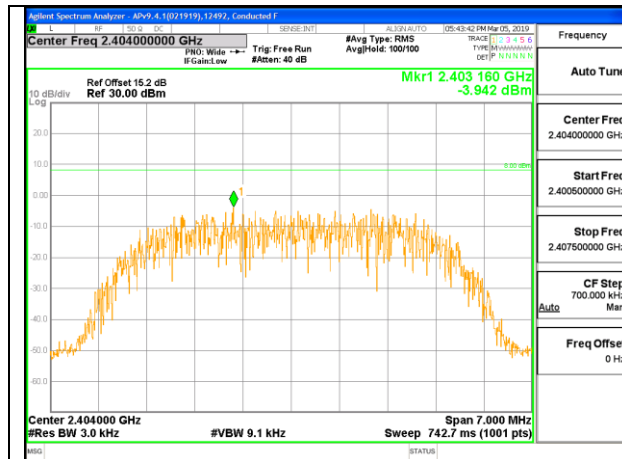
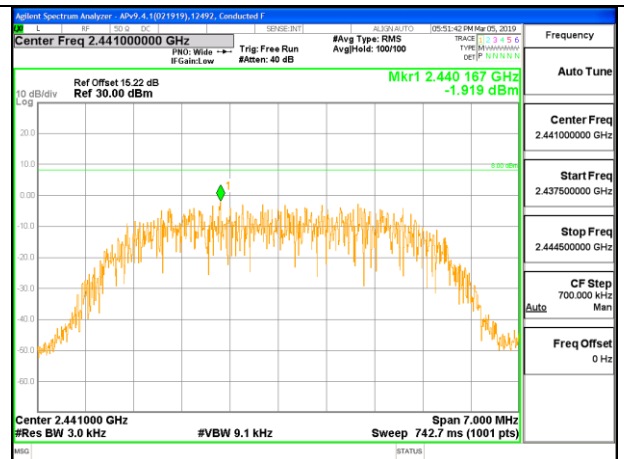
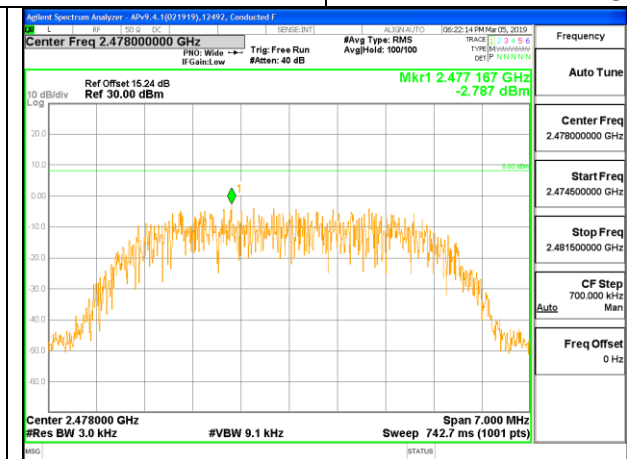
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-1.40	8	-9.40
Middle	2441	-0.39	8	-8.39
High	2478	-3.00	8	-11.00

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**



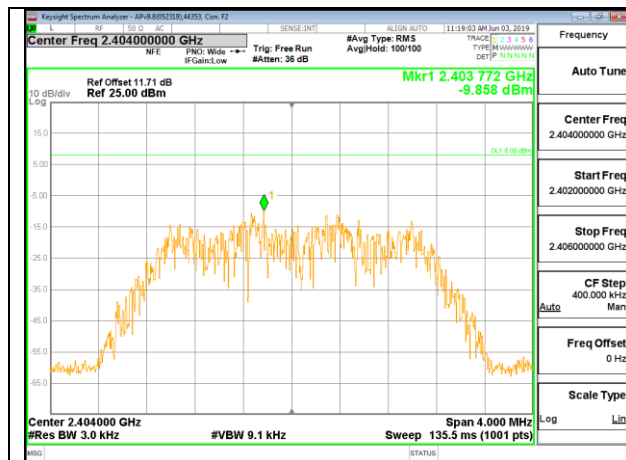
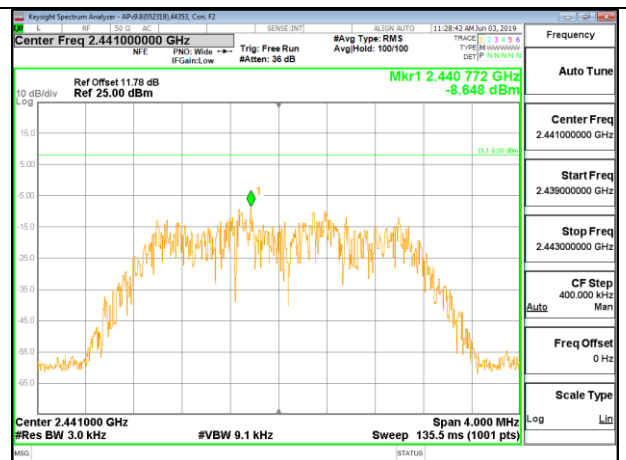
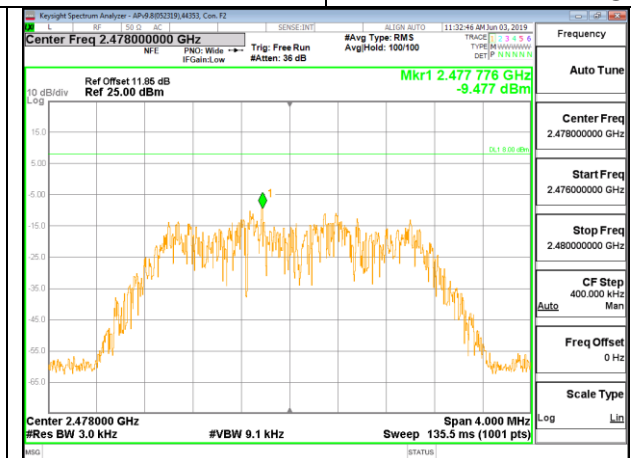
**Antenna 5**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-3.94	8	-11.94
Middle	2441	-1.92	8	-9.92
High	2478	-2.79	8	-10.79

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**

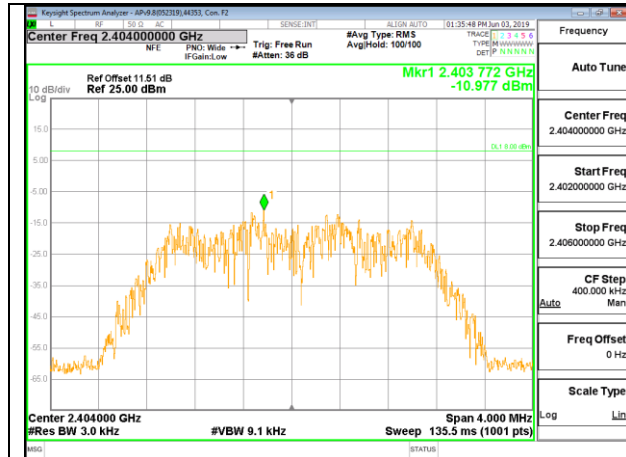
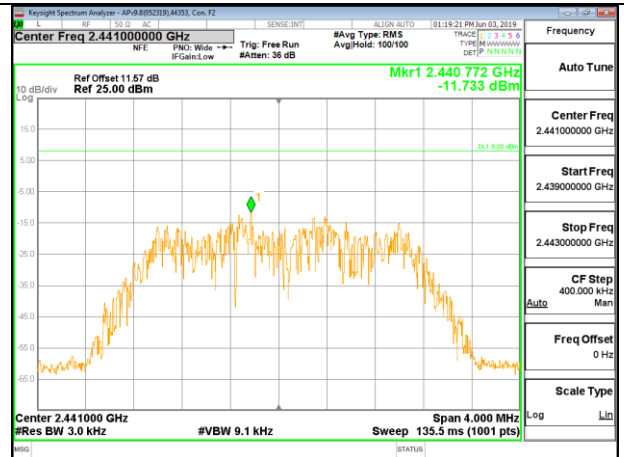
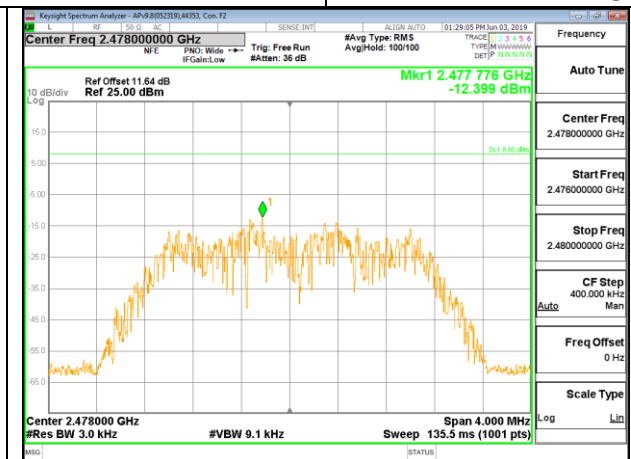
**8.6.3. LOW POWER HDR (HDR4)****Antenna 2**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-9.96	8	-17.96
Middle	2441	-8.65	8	-16.65
High	2478	-9.48	8	-17.48

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**

**Antenna 5**

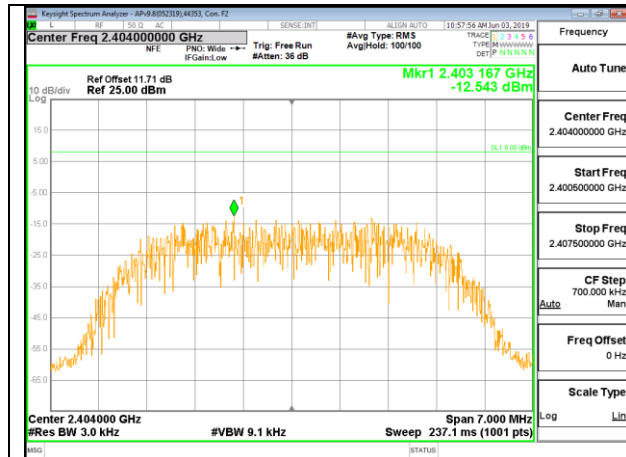
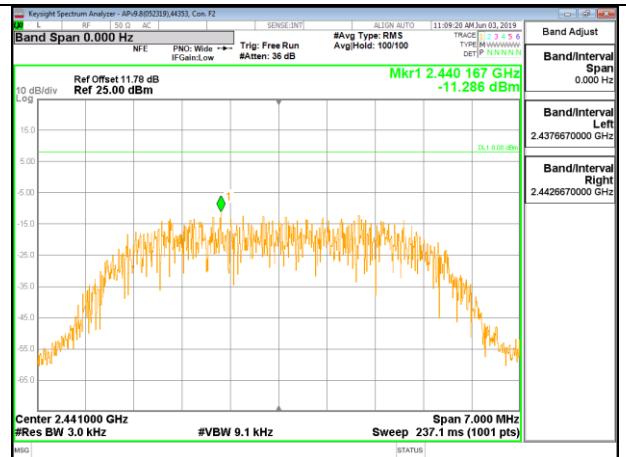
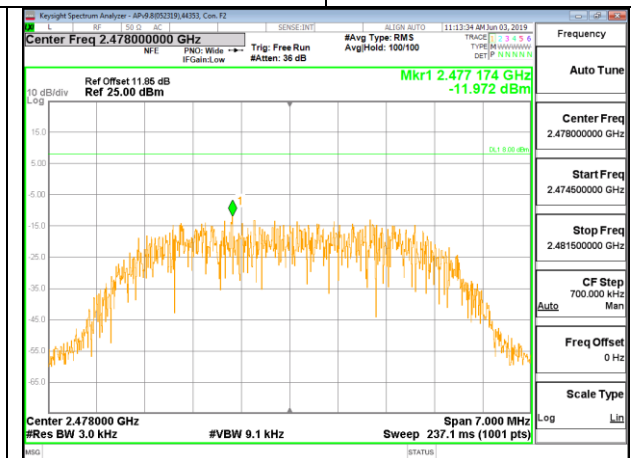
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-10.98	8	-18.98
Middle	2441	-11.73	8	-19.73
High	2478	-12.40	8	-20.40

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**

## 8.6.4. LOW POWER HDR (HDR8)

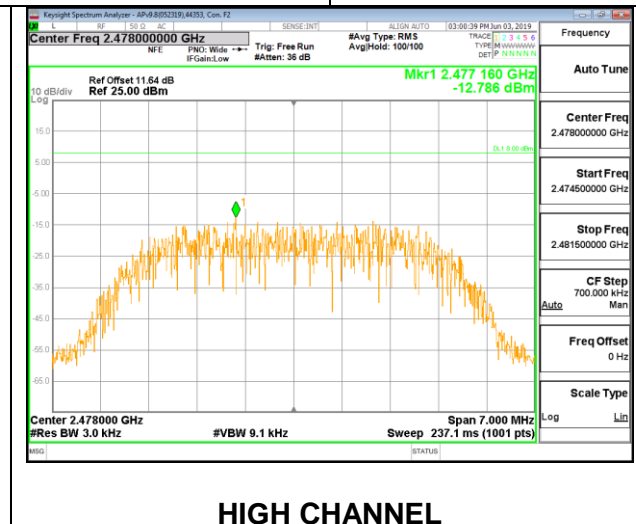
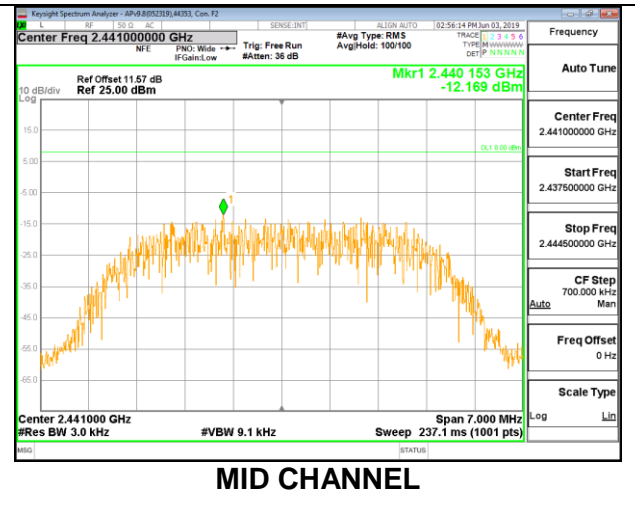
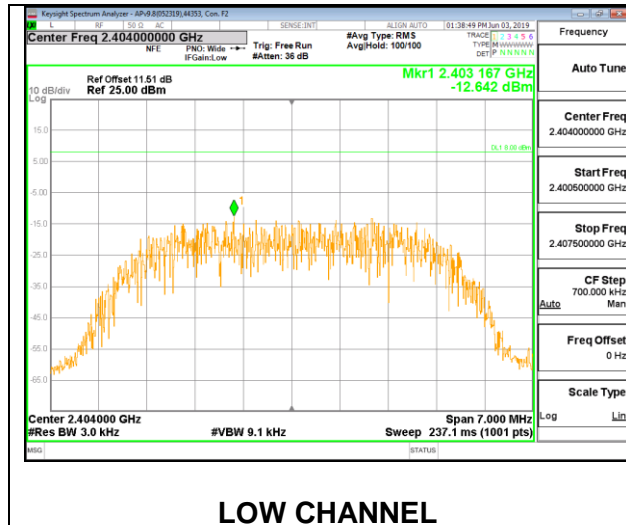
**Antenna 2**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-12.54	8	-20.54
Middle	2441	-11.29	8	-19.29
High	2478	-11.97	8	-19.97

**LOW CHANNEL****MID CHANNEL****HIGH CHANNEL**

**Antenna 5**

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-12.64	8	-20.64
Middle	2441	-12.17	8	-20.17
High	2478	-12.79	8	-20.79



## **8.7. CONDUCTED SPURIOUS EMISSIONS**

### **LIMITS**

FCC §15.247 (d)

RSS-247 5.5

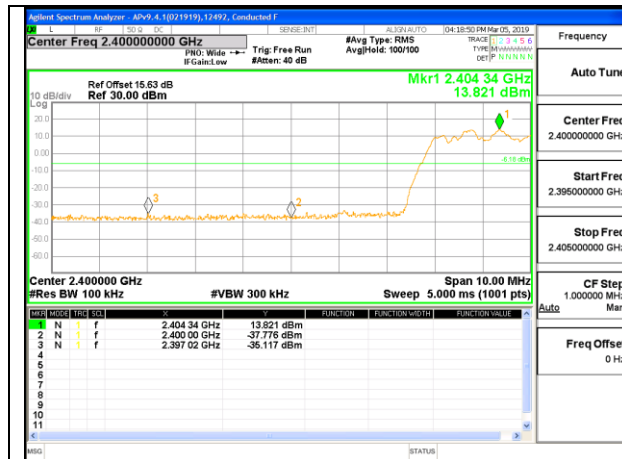
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

Note: Test procedures and setting on beamforming are same as BT HDR normal modes.

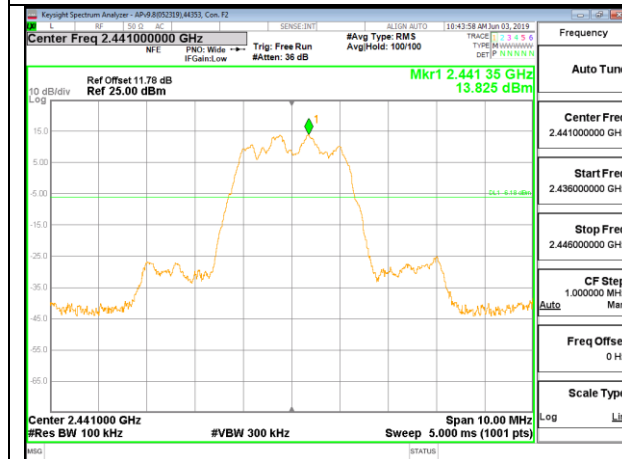
### **RESULTS**

## 8.7.1. HIGH POWER HDR (HDR4)

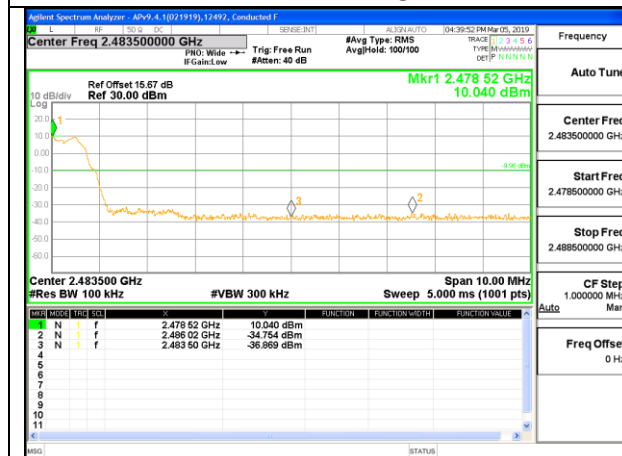
## Antenna 2



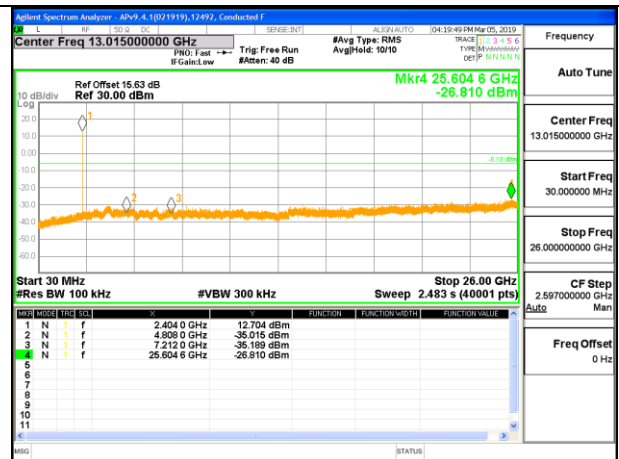
## LOW CHANNEL BANDEDGE



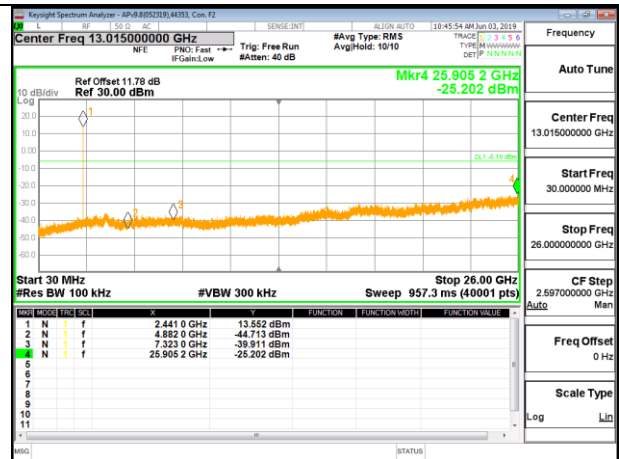
## IN-BAND REFERENCE LEVEL



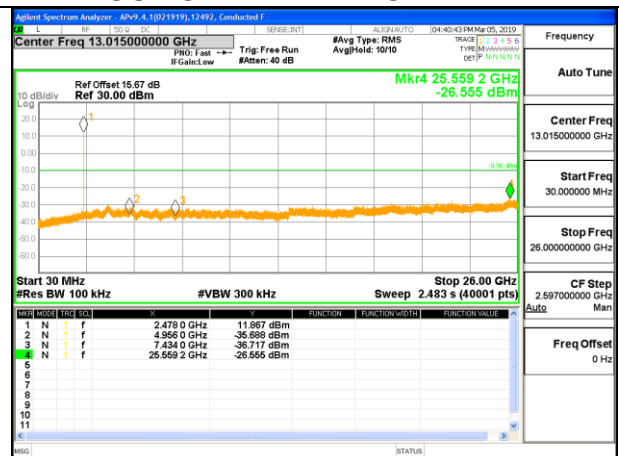
## HIGH CHANNEL BANDEDGE



## OUT-OF-BAND LOW CHANNEL

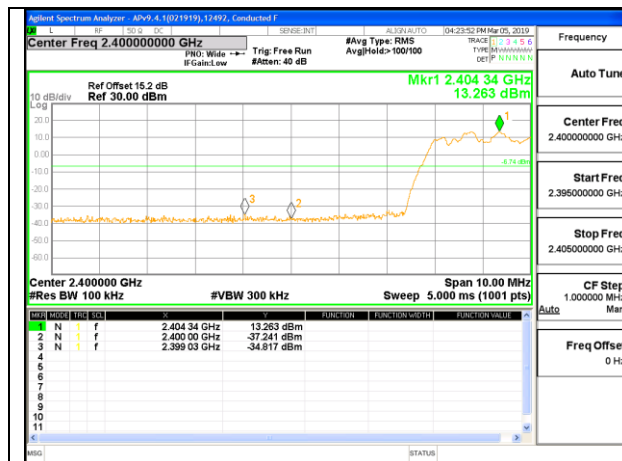


## OUT-OF-BAND MID CHANNEL

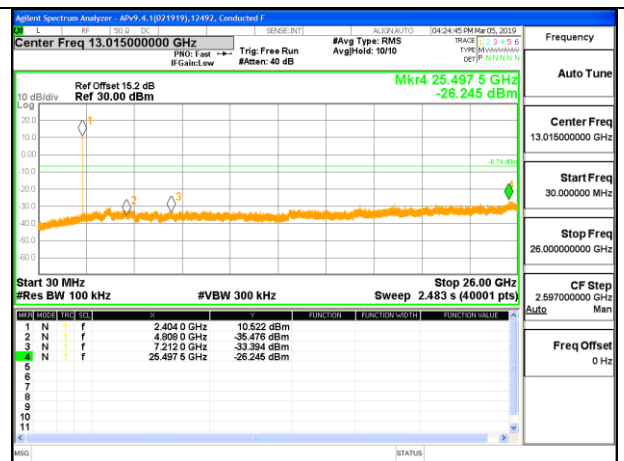


## OUT-OF-BAND HIGH CHANNEL

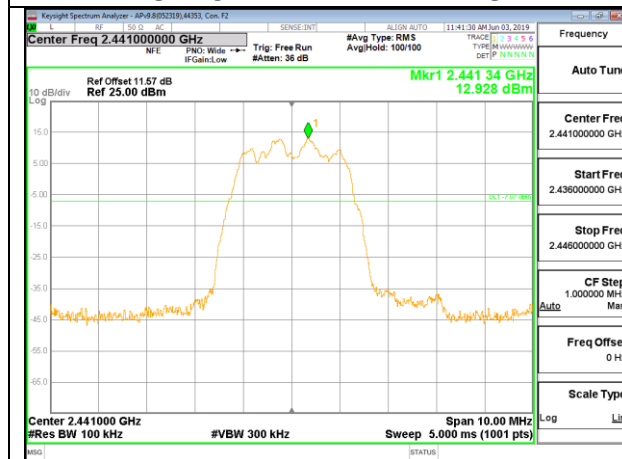
## Antenna 5



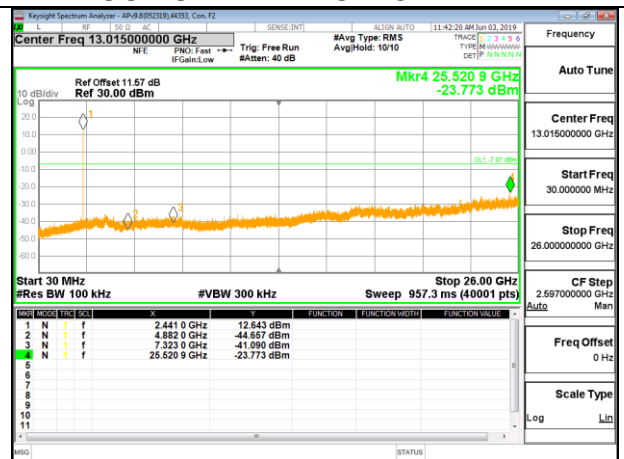
## LOW CHANNEL BANDEDGE



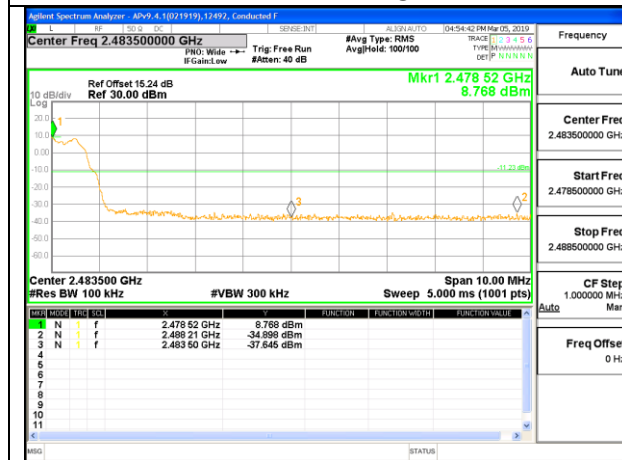
## OUT-OF-BAND LOW CHANNEL



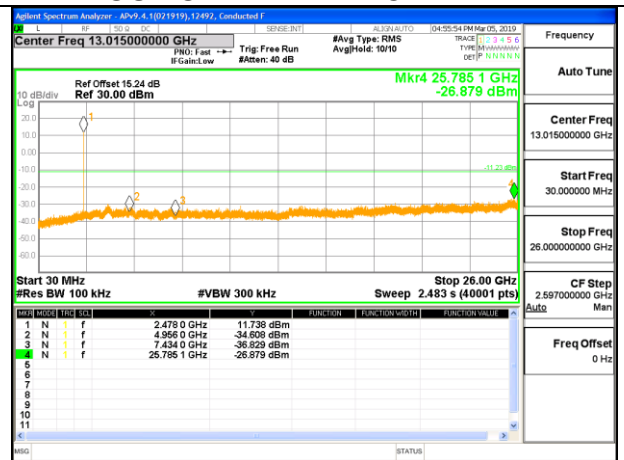
## IN-BAND REFERENCE LEVEL



## OUT-OF-BAND MID CHANNEL



## HIGH CHANNEL BANDEDGE

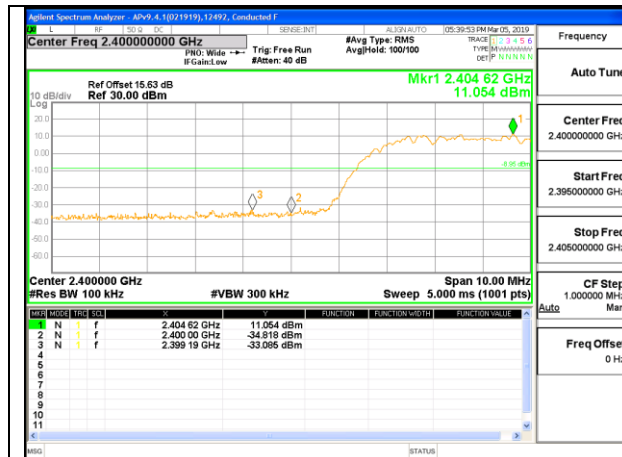


## OUT-OF-BAND HIGH CHANNEL

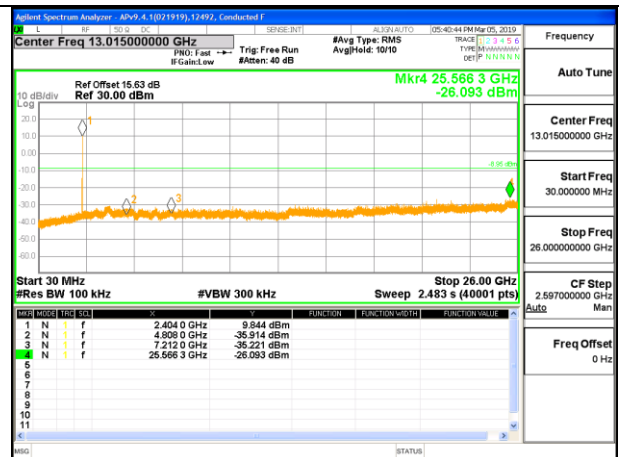


## 8.7.2. HIGH POWER HDR (HDR8)

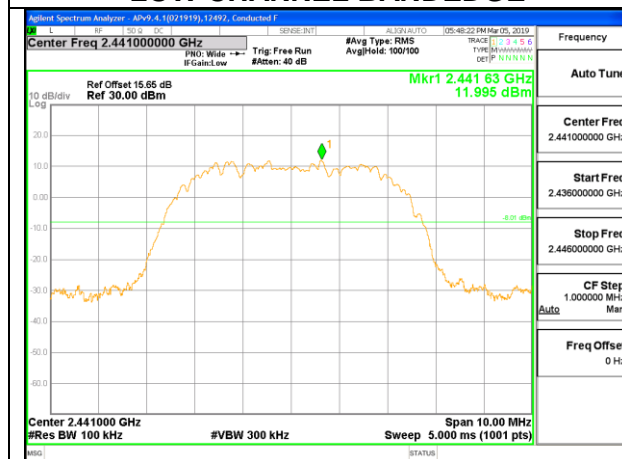
## Antenna 2



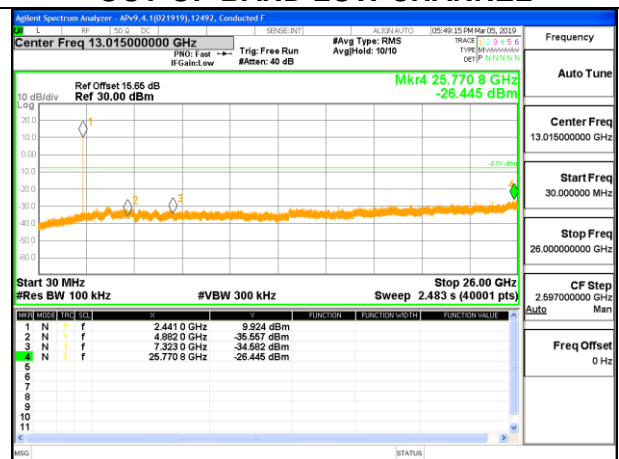
LOW CHANNEL BANDEDGE



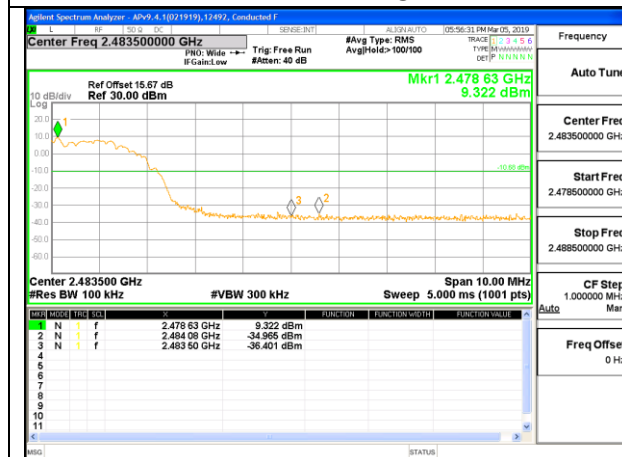
OUT-OF-BAND LOW CHANNEL



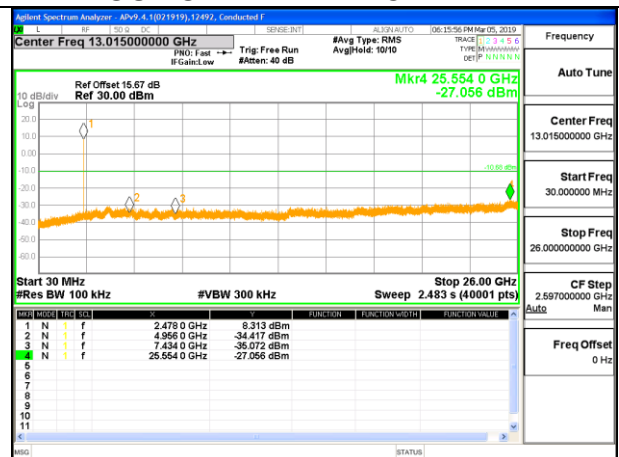
IN-BAND REFERENCE LEVEL



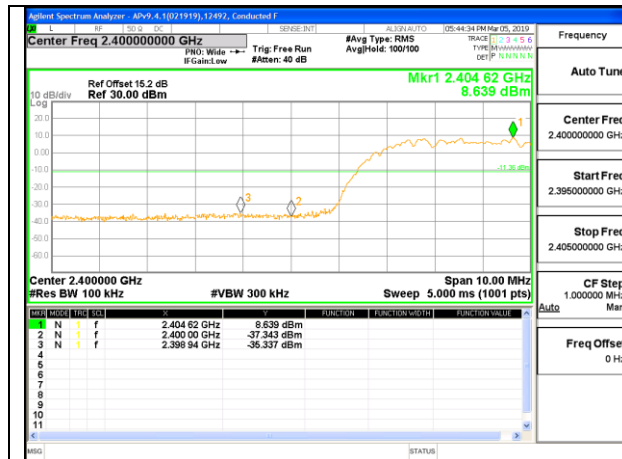
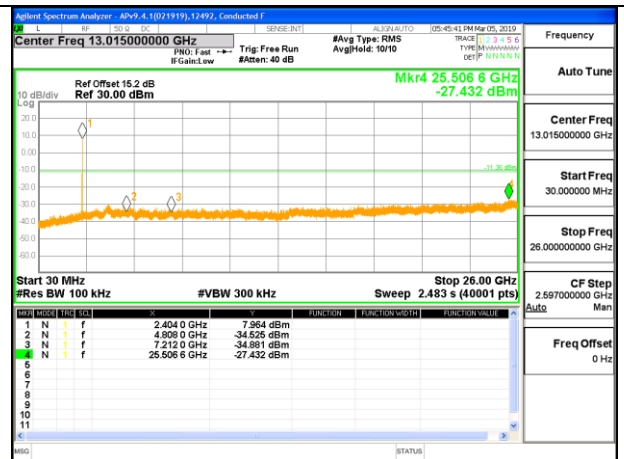
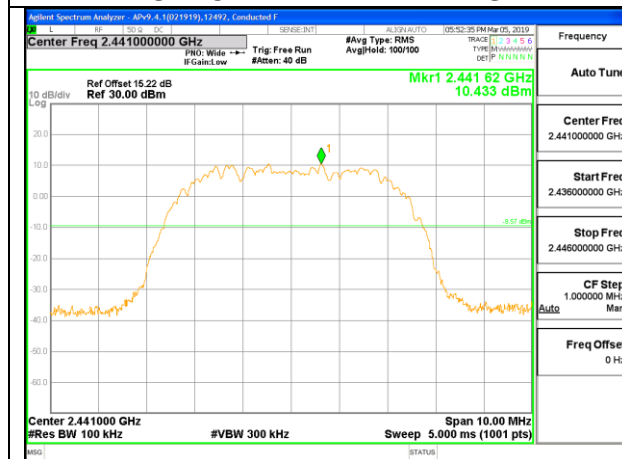
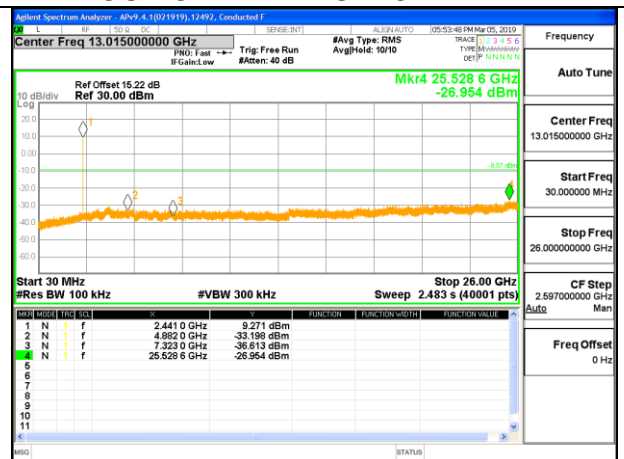
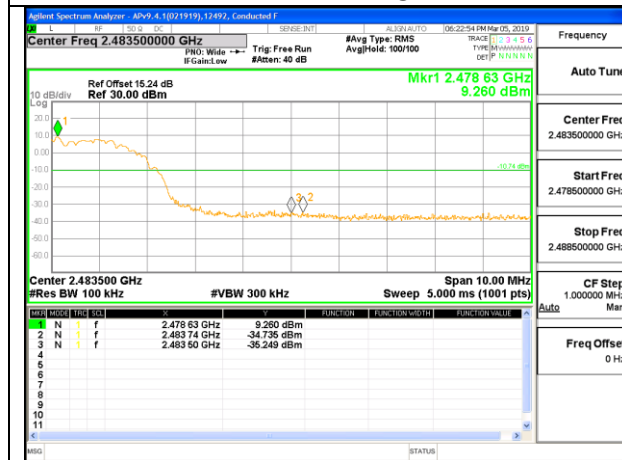
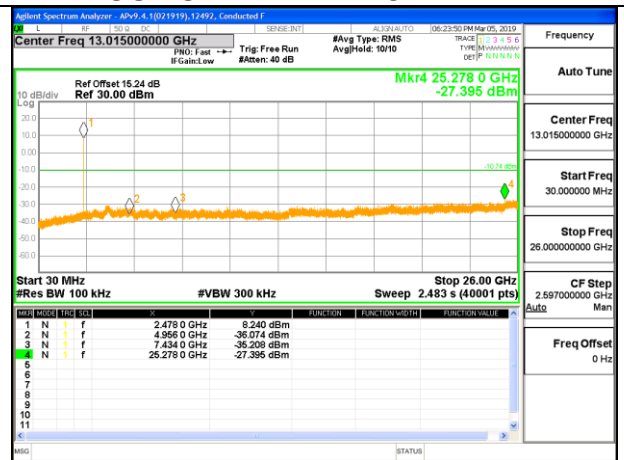
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE

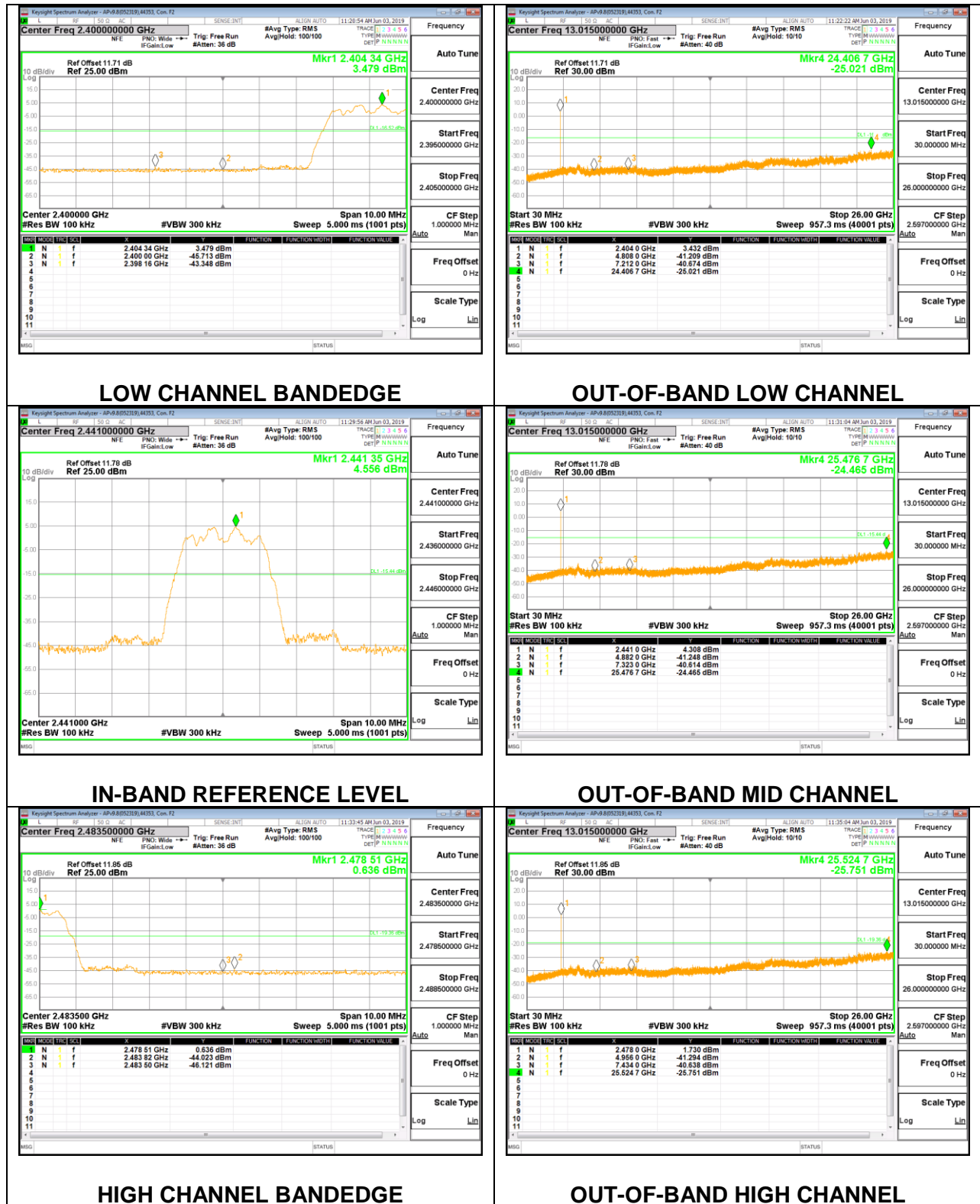


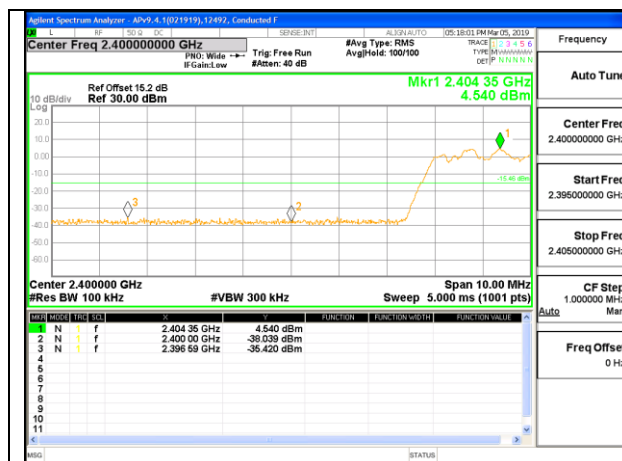
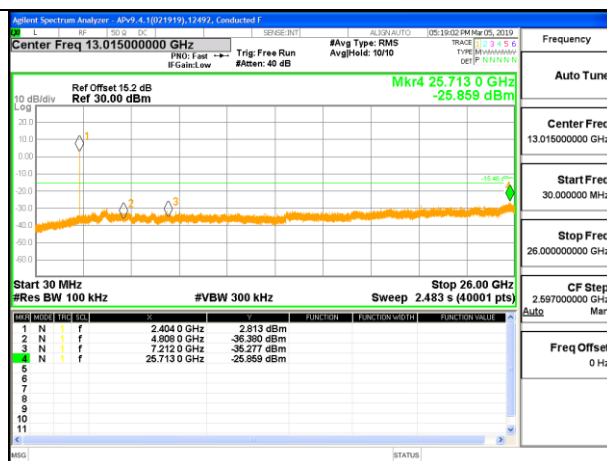
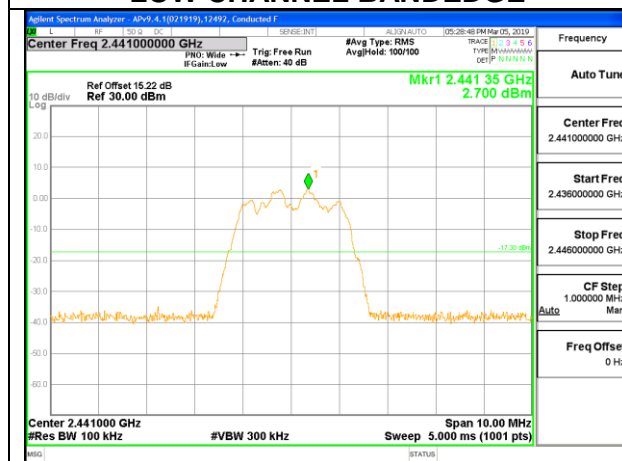
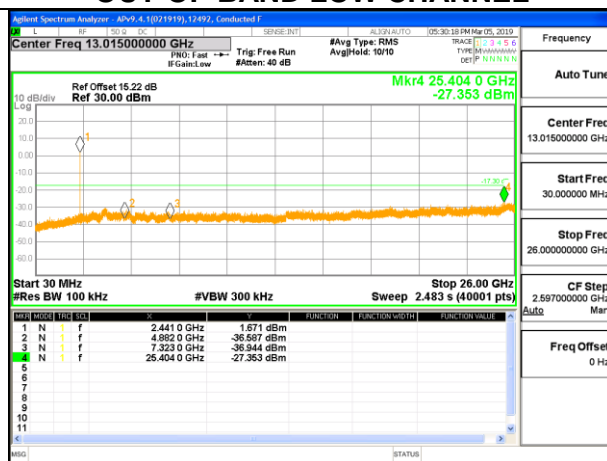
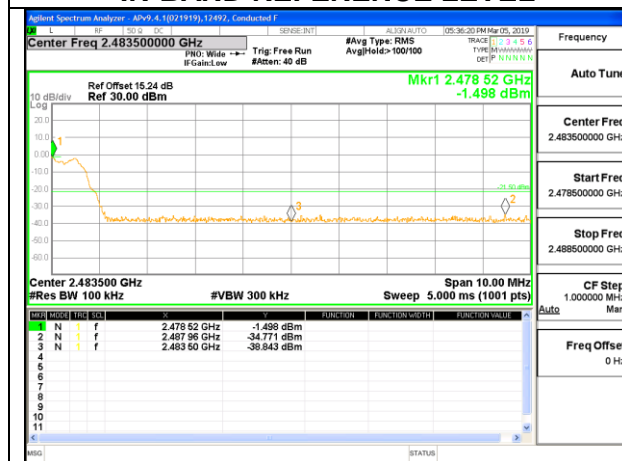
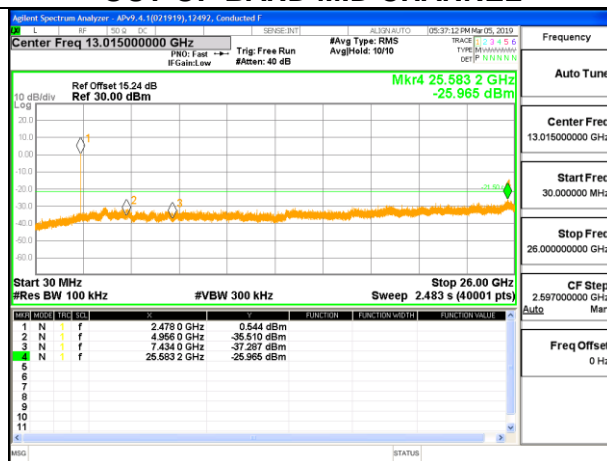
OUT-OF-BAND HIGH CHANNEL

**Antenna 5****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**

## 8.7.3. LOW POWER HDR (HDR4)

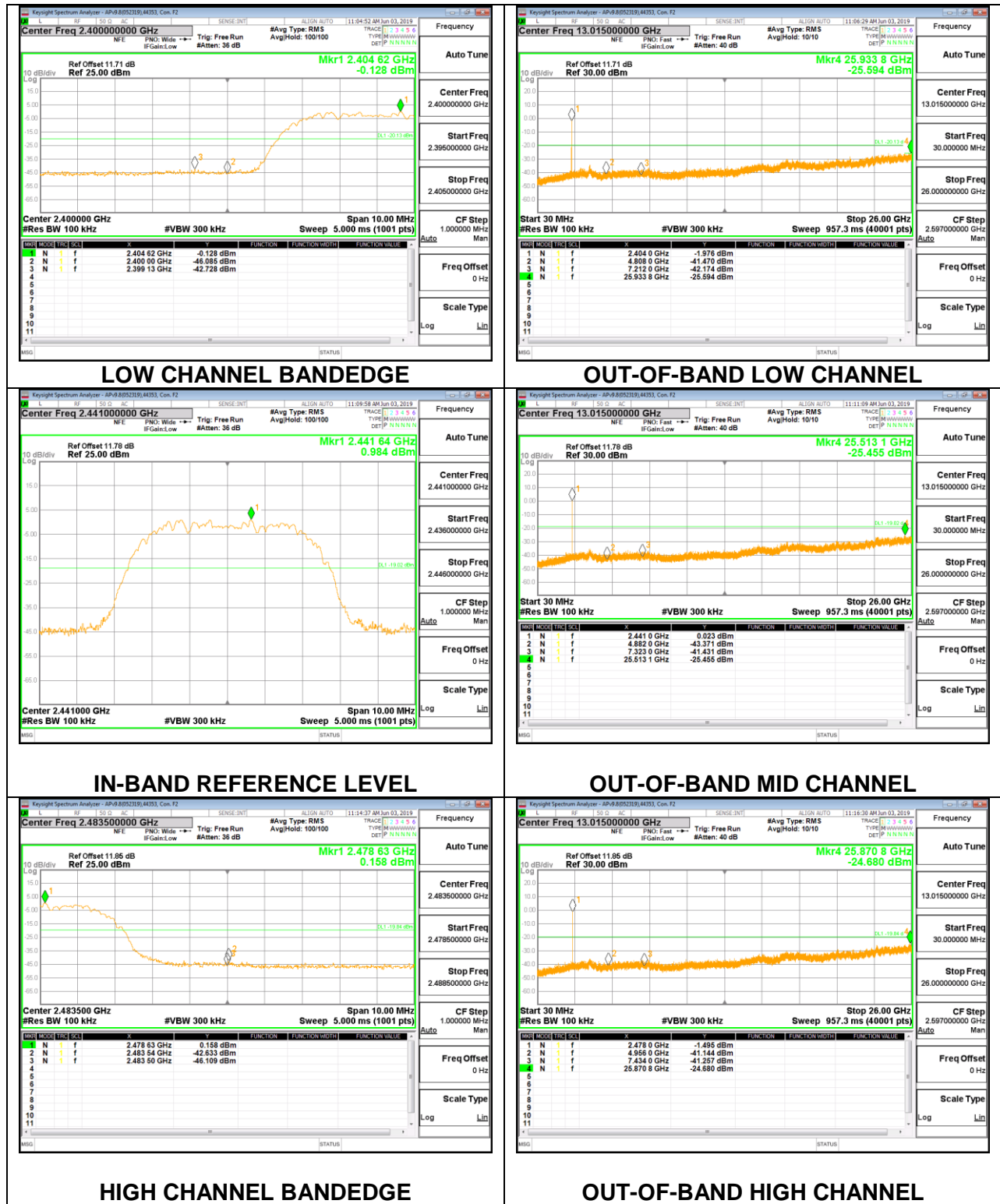
## Antenna 2

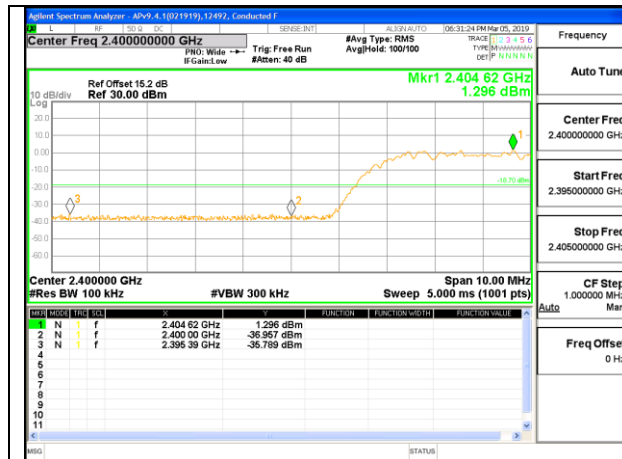
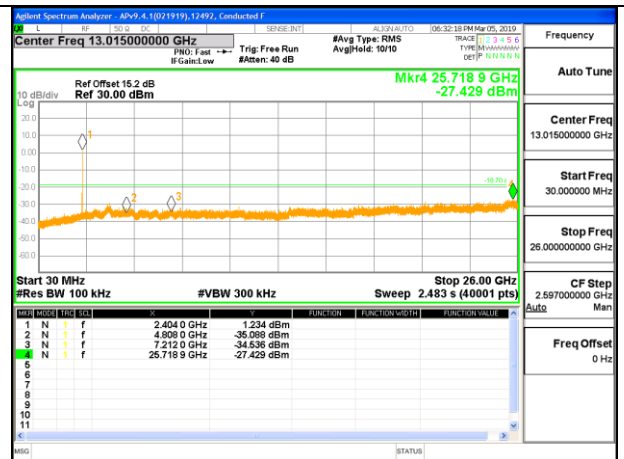
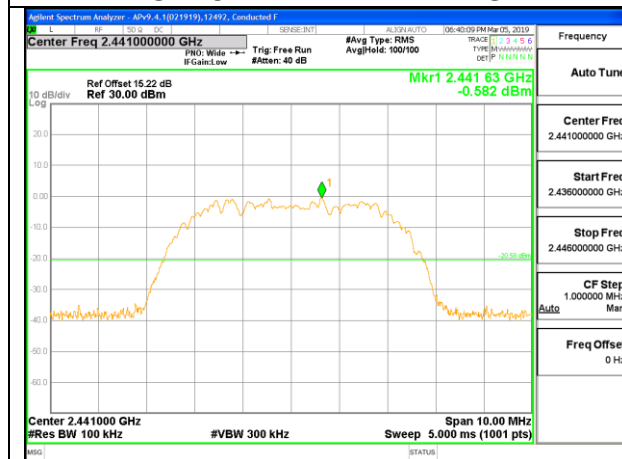
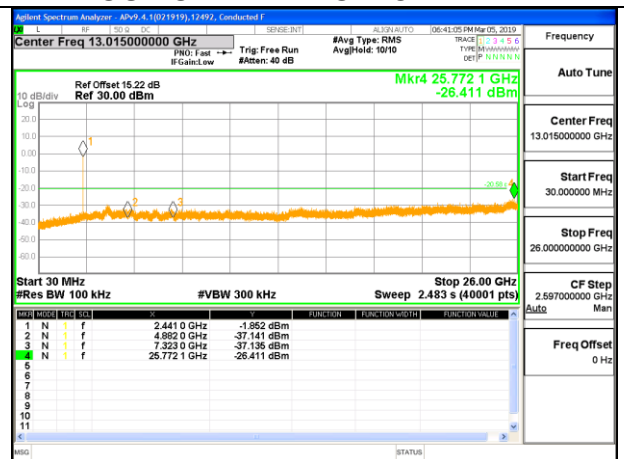
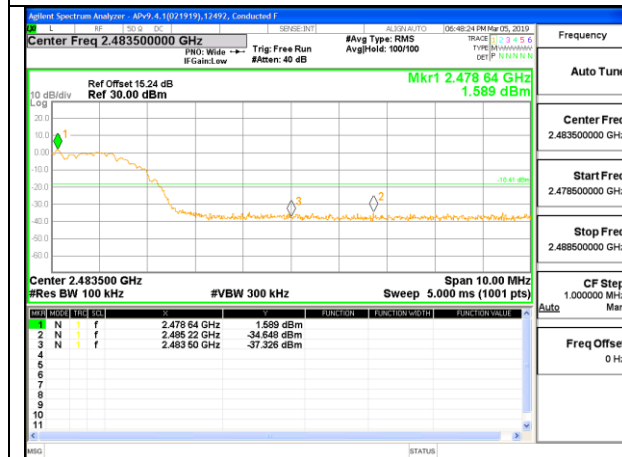
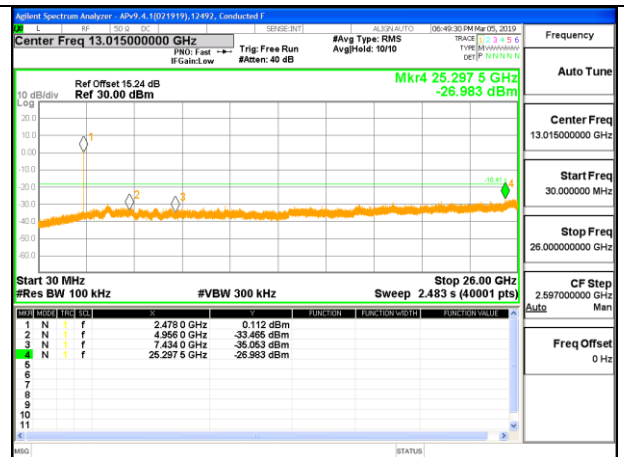


**Antenna 5****LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

## 8.7.4. LOW POWER HDR (HDR8)

## Antenna 2



**Antenna 5****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**