

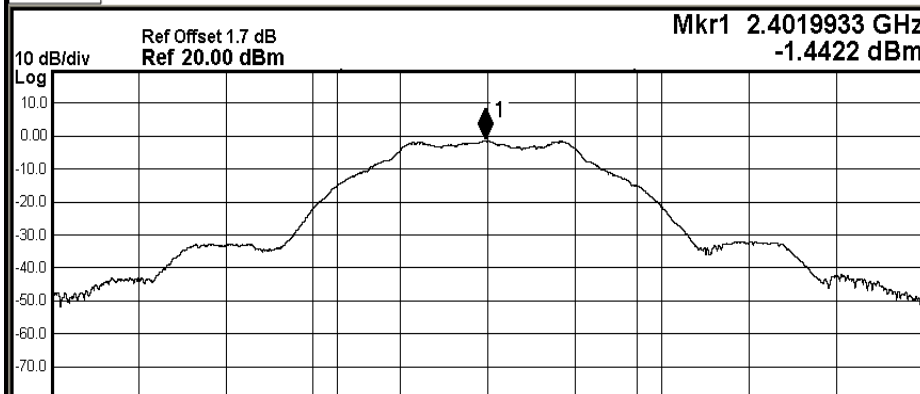
**1.6dB Bandwidth**

Test Mode	Test Channel	EBW[MHz]	Limit	Verdict
BLE	2402	0.6881	0.5	PASS
BLE	2440	0.7002	0.5	PASS
BLE	2480	0.6898	0.5	PASS

## 6dB Bandwidth\_BLE\_2402

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.402000000 GHz  
 #IFGain:Low  
 SENSE:PULSE  
 Trig: Free Run  
 #Atten: 30 dB  
 ALIGN AUTO  
 Avg|Hold> 1/1  
 Radio Std: None  
 Radio Device: BTS



Center 2.402 GHz  
 #Res BW 100 kHz  
 #VBW 300 kHz  
 Span 3 MHz  
 Sweep 1.067 ms

Occupied Bandwidth  
**1.0254 MHz**  
 Total Power 5.62 dBm  
 Transmit Freq Error 1.358 kHz  
 x dB Bandwidth 688.1 kHz  
 OBW Power 99.00 %  
 x dB -6.00 dB

Frequency

Center Freq  
 2.402000000 GHz

CF Step  
 300.000 kHz  
 Auto Man

Freq Offset  
 0 Hz

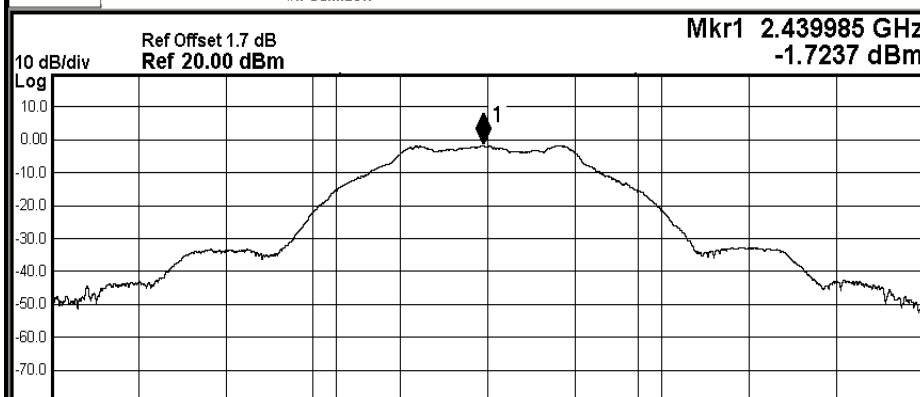
MSG

STATUS

## 6dB Bandwidth\_BLE\_2440

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.440000000 GHz  
 #IFGain:Low  
 SENSE:PULSE  
 Trig: Free Run  
 #Atten: 30 dB  
 ALIGN AUTO  
 Avg|Hold> 1/1  
 Radio Std: None  
 Radio Device: BTS



Center 2.44 GHz  
 #Res BW 100 kHz  
 #VBW 300 kHz  
 Span 3 MHz  
 Sweep 1.067 ms

Occupied Bandwidth  
**1.0280 MHz**  
 Total Power 5.44 dBm  
 Transmit Freq Error 1.755 kHz  
 x dB Bandwidth 700.2 kHz  
 OBW Power 99.00 %  
 x dB -6.00 dB

Frequency

Center Freq  
 2.440000000 GHz

CF Step  
 300.000 kHz  
 Auto Man

Freq Offset  
 0 Hz

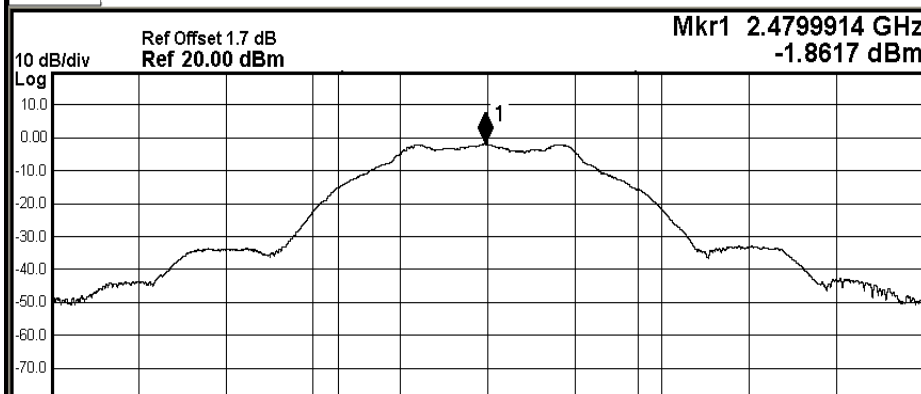
MSG

STATUS

## 6dB Bandwidth\_BLE\_2480

Agilent Spectrum Analyzer - Occupied BW

☒ RL    RF    50  $\Omega$     AC    SENSE:PULSE    ALIGN:AUTO    05:01:33 PM Oct 17, 2017  
**Center Freq 2.480000000 GHz**    Center Freq: 2.480000000 GHz    Radio Std: None  
 #IFGain:Low    Trig: Free Run    Avg|Hold> 1/1    Radio Device: BTS  
 #Atten: 30 dB



Center 2.48 GHz    Span 3 MHz  
 #Res BW 100 kHz    #VBW 300 kHz    Sweep 1.067 ms

Occupied Bandwidth		Total Power	
<b>1.0291 MHz</b>		5.19 dBm	
Transmit Freq Error	1.989 kHz	OBW Power	99.00 %
x dB Bandwidth	689.8 kHz	x dB	-6.00 dB

Frequency

Center Freq  
 2.480000000 GHz

CF Step  
 300.000 kHz  
 Auto    Man

Freq Offset  
 0 Hz

MSG

STATUS

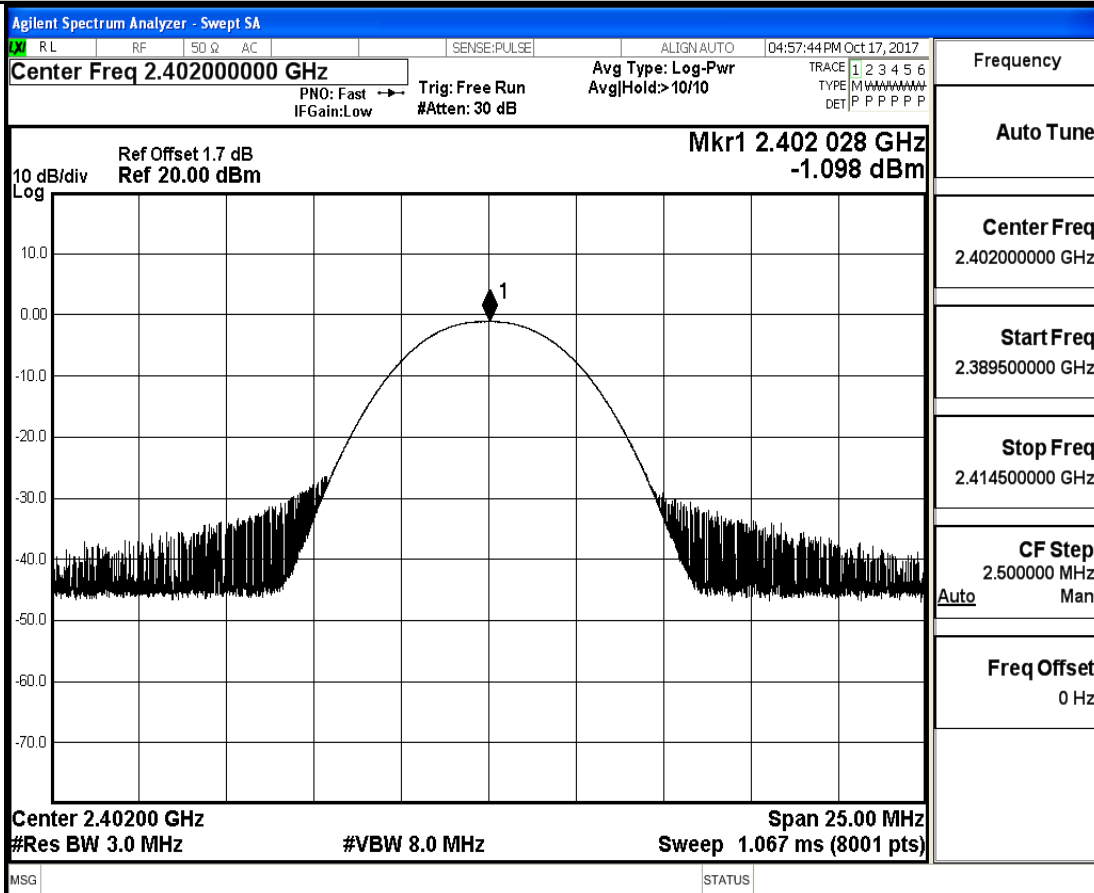
**2.Occupied Bandwidth**

Test Mode	Test Channel	OBW[MHz]	Limit[MHz]	Verdict
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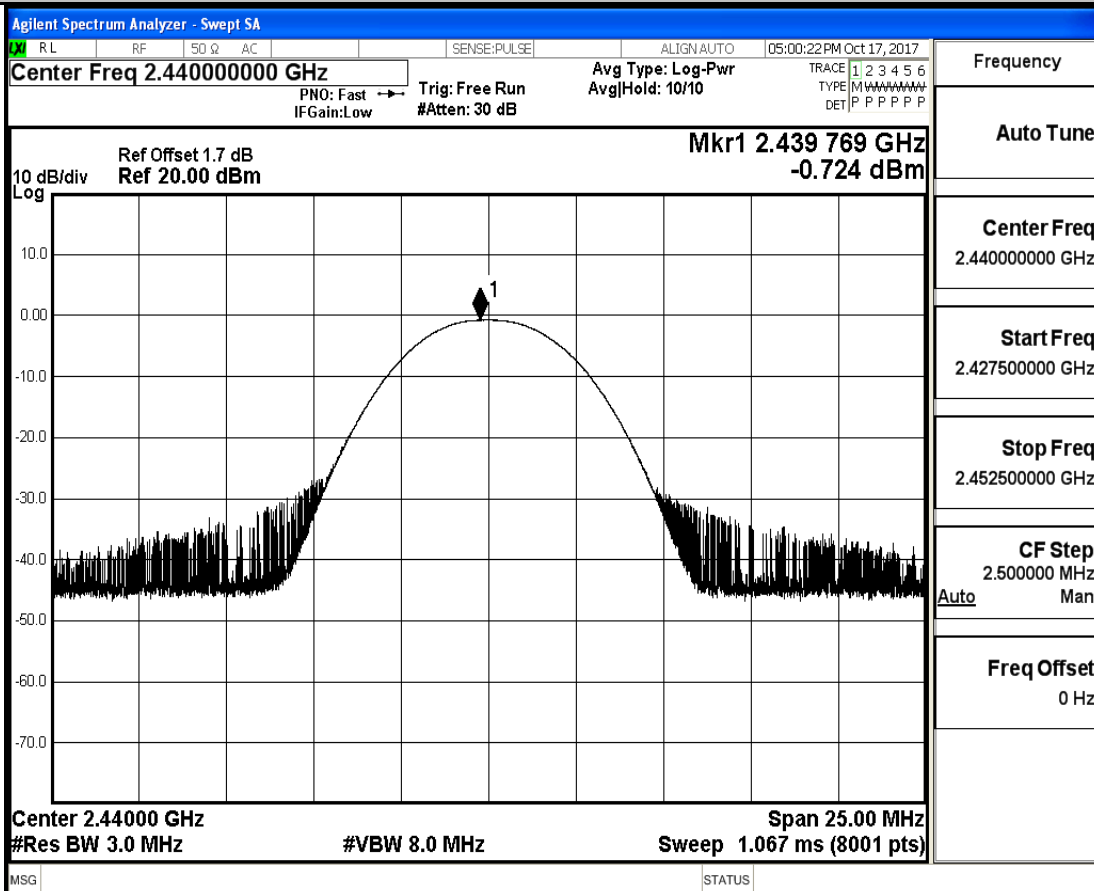
**3.Maximum peak conducted output power**

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	-1.098	30	PASS
BLE	2440	-0.724	30	PASS
BLE	2480	-0.985	30	PASS

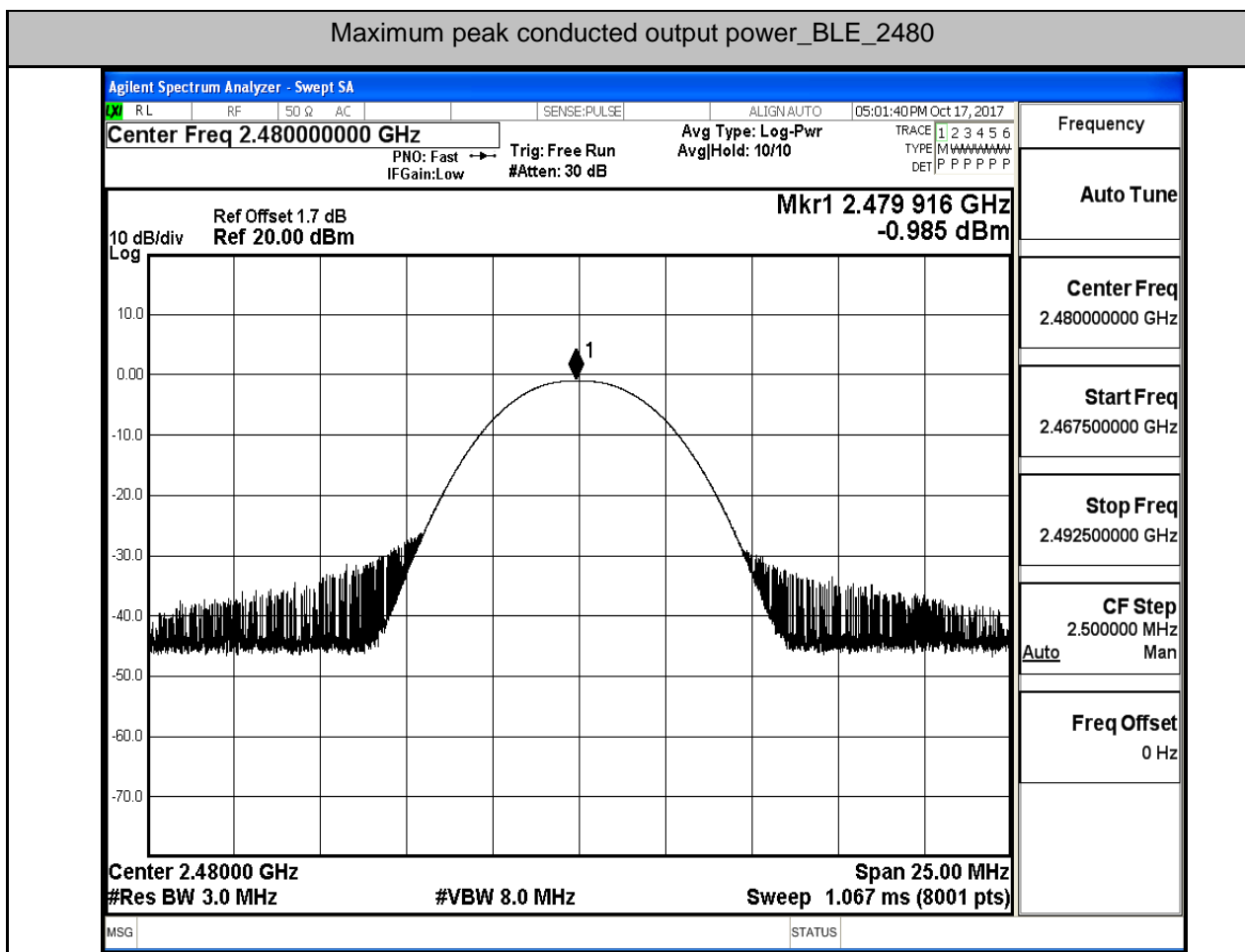
## Maximum peak conducted output power\_BLE\_2402



## Maximum peak conducted output power\_BLE\_2440



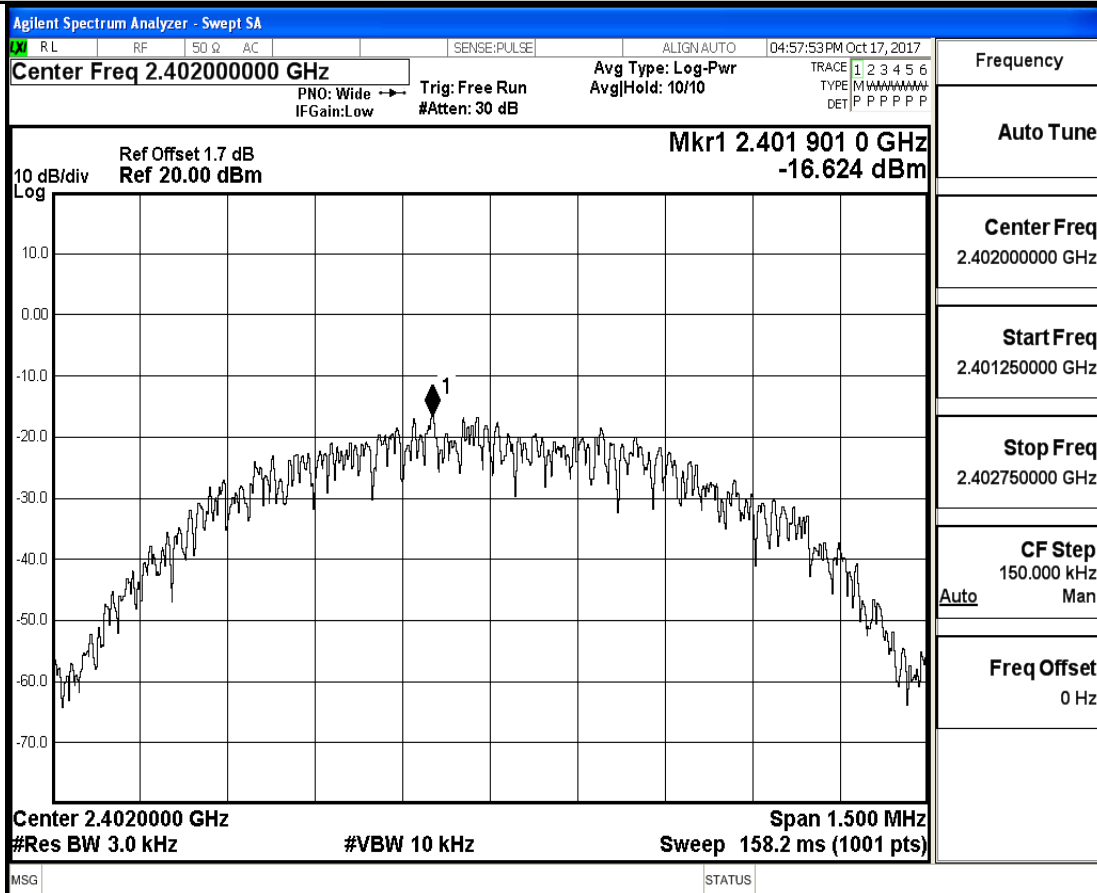
## Maximum peak conducted output power\_BLE\_2480



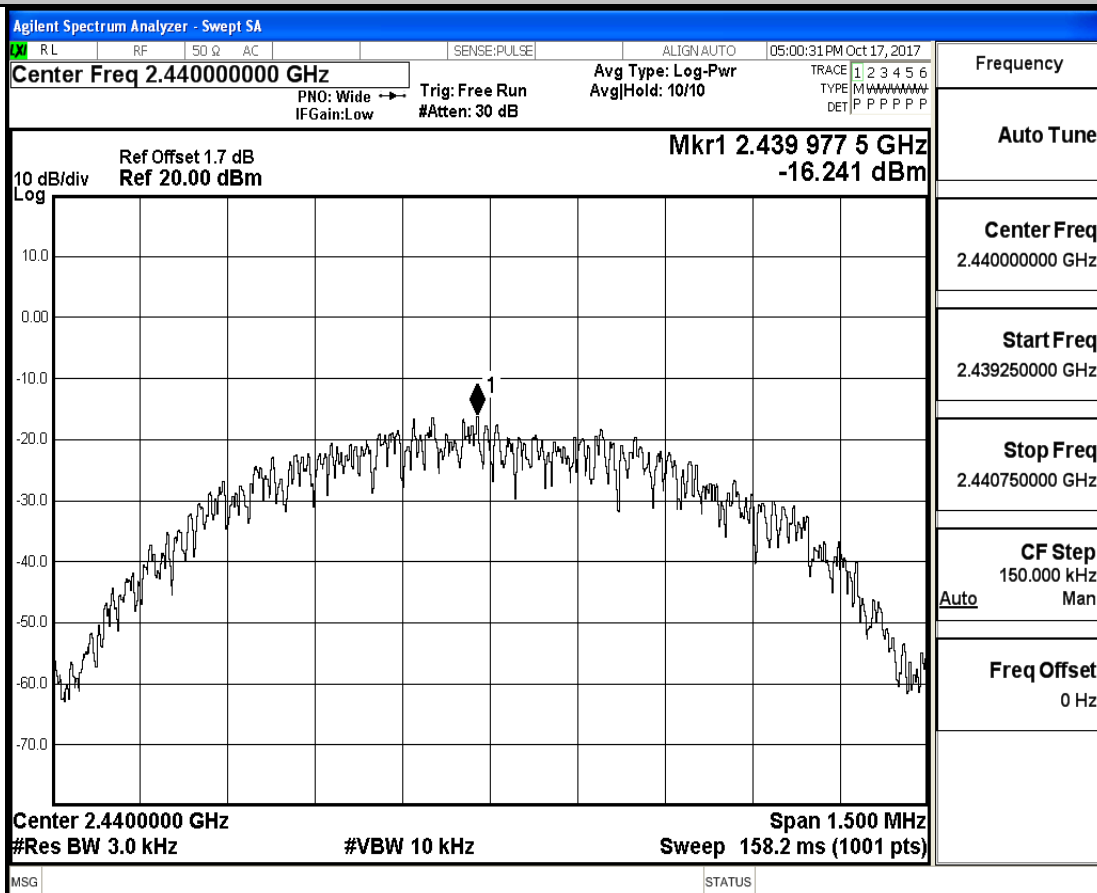
**4.Maximum Peak power spectral density**

Test Mode	Test Channel	PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
BLE	2402	-16.624	8.00	PASS
BLE	2440	-16.241	8.00	PASS
BLE	2480	-16.642	8.00	PASS

## Maximum Peak power spectral density\_BLE\_2402

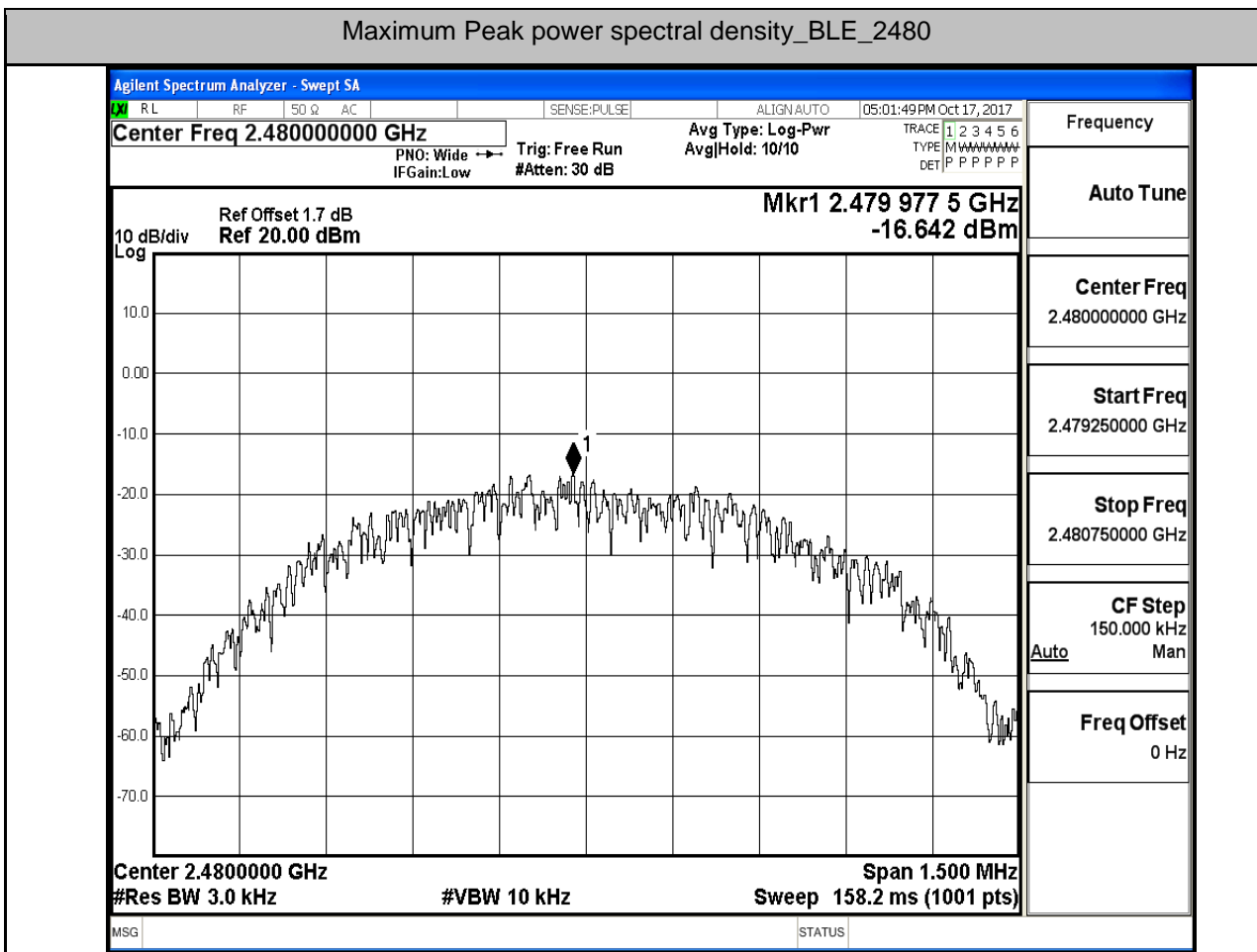


## Maximum Peak power spectral density\_BLE\_2440





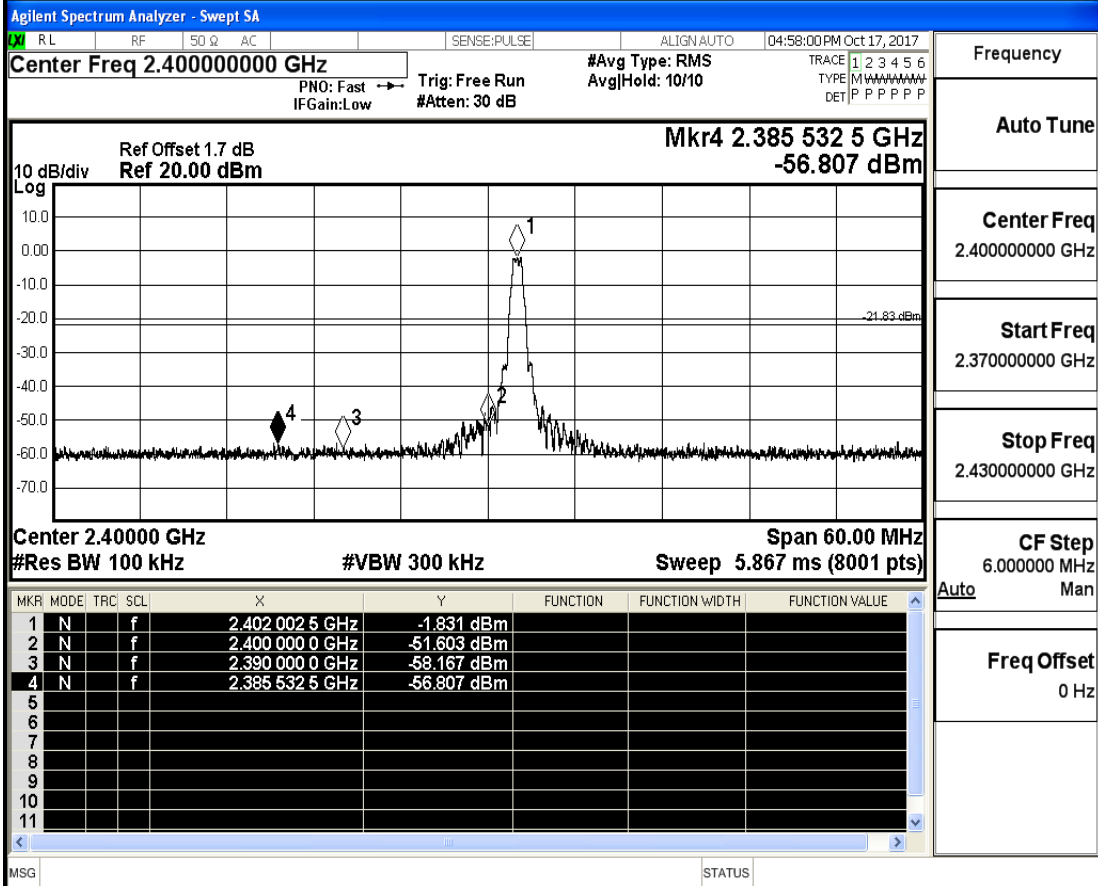
## Maximum Peak power spectral density\_BLE\_2480



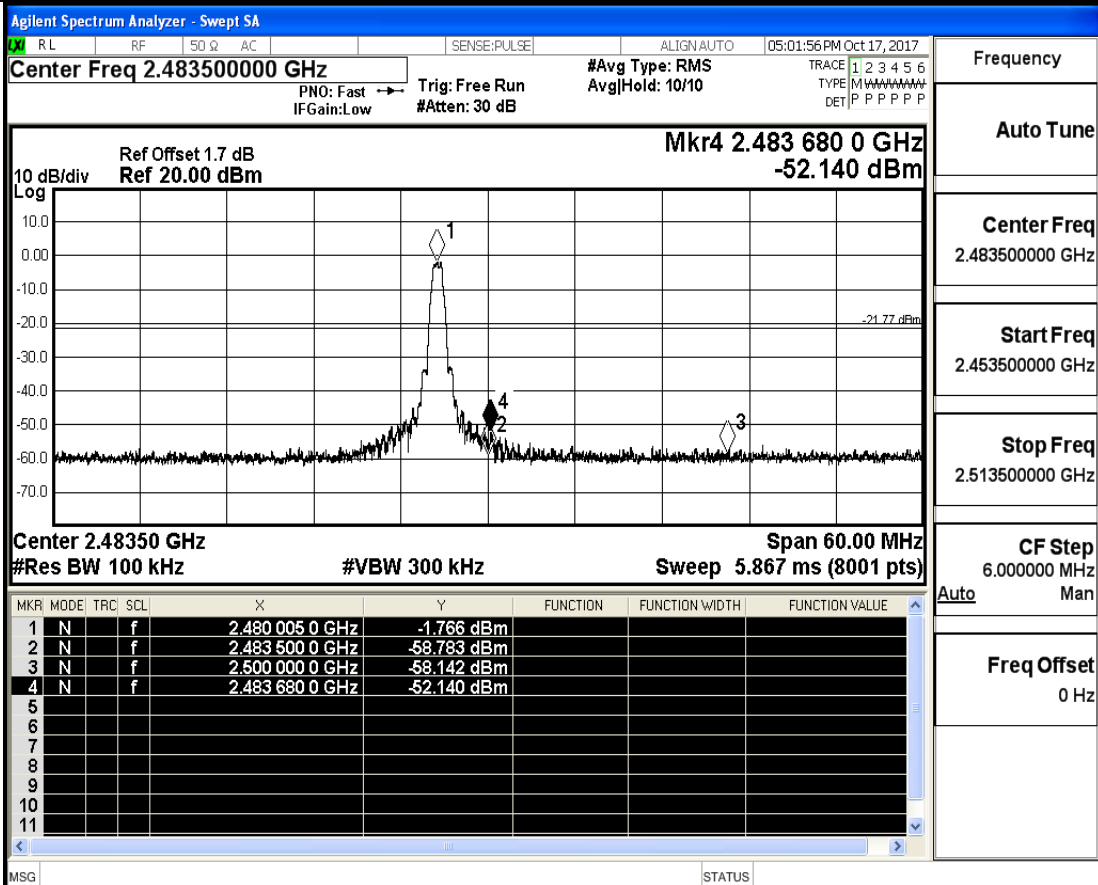
**5.Band-edge for RF Conducted Emissions**

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	-1.831	-56.807	-21.83	PASS
BLE	2480	-1.766	-52.140	-21.77	PASS

## Band-edge for RF Conducted Emissions\_BLE\_2402



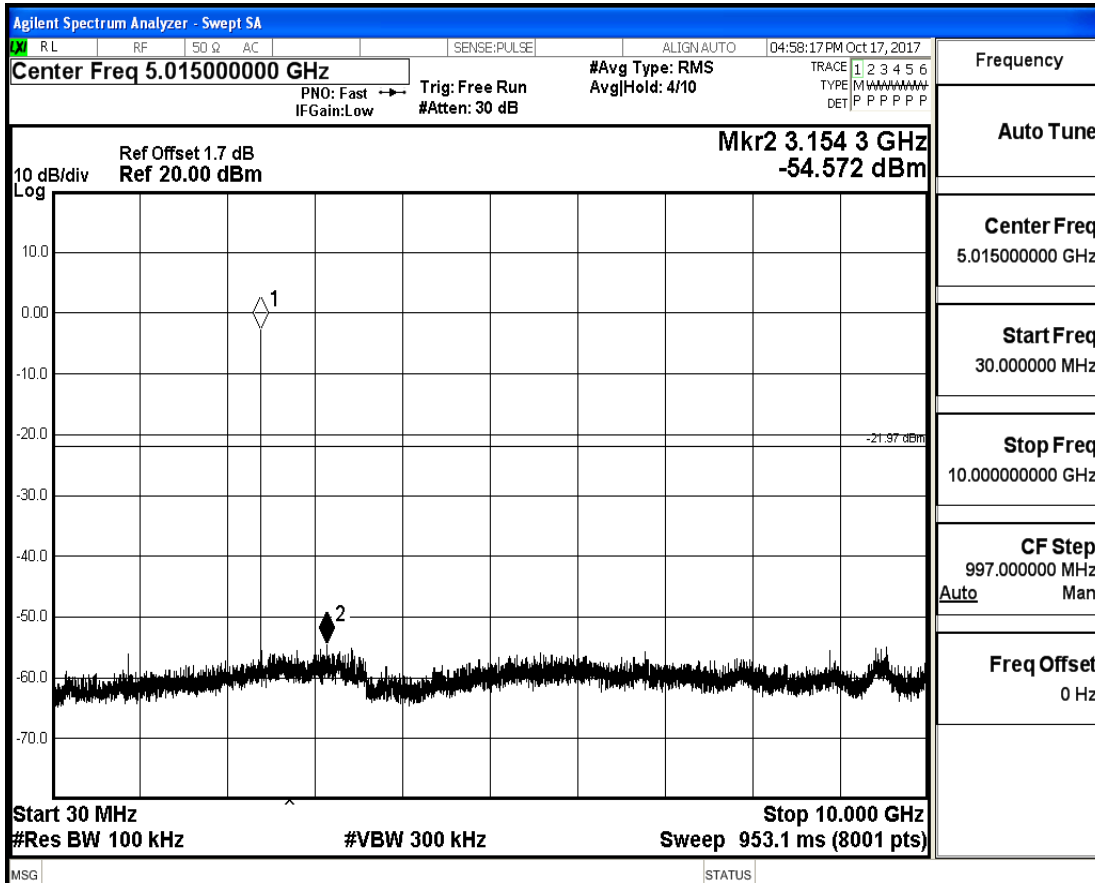
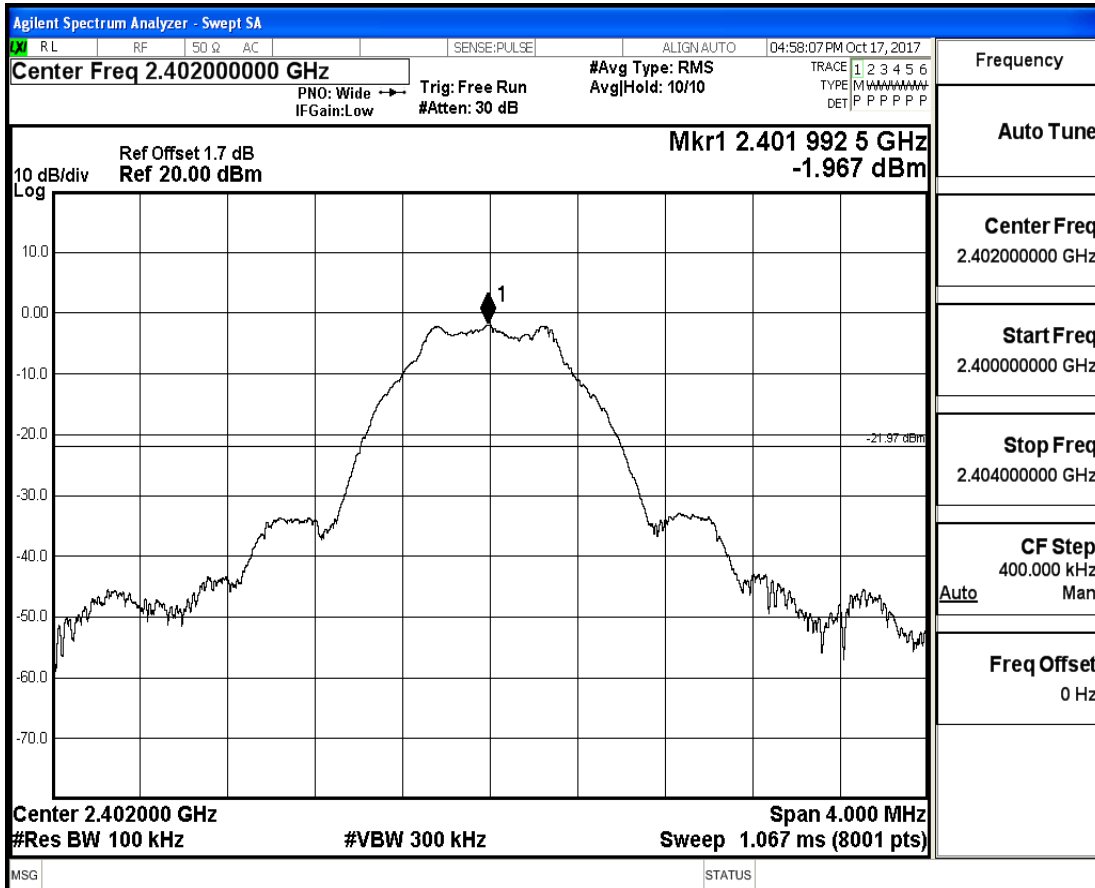
## Band-edge for RF Conducted Emissions\_BLE\_2480

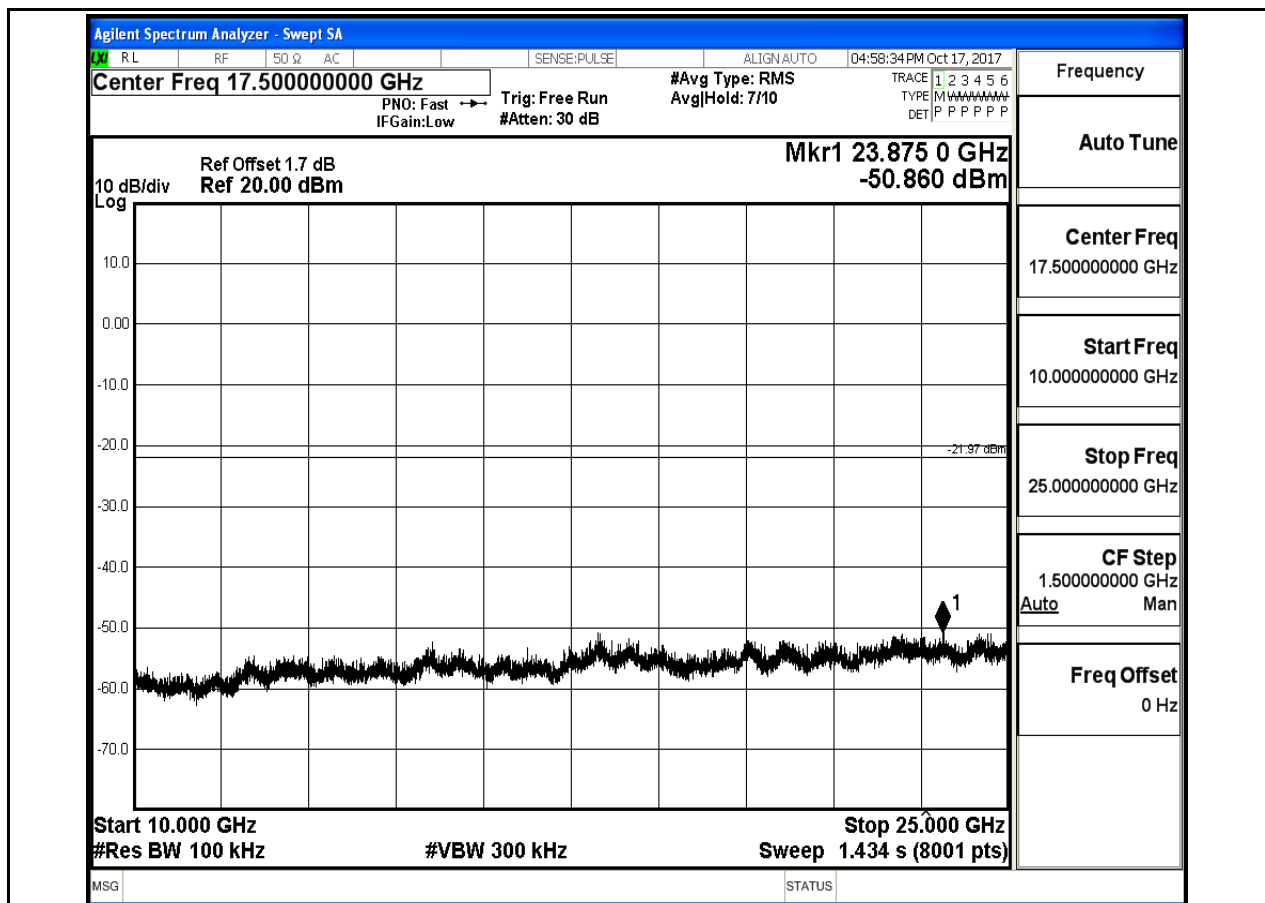


## 6.RF Conducted Spurious Emissions

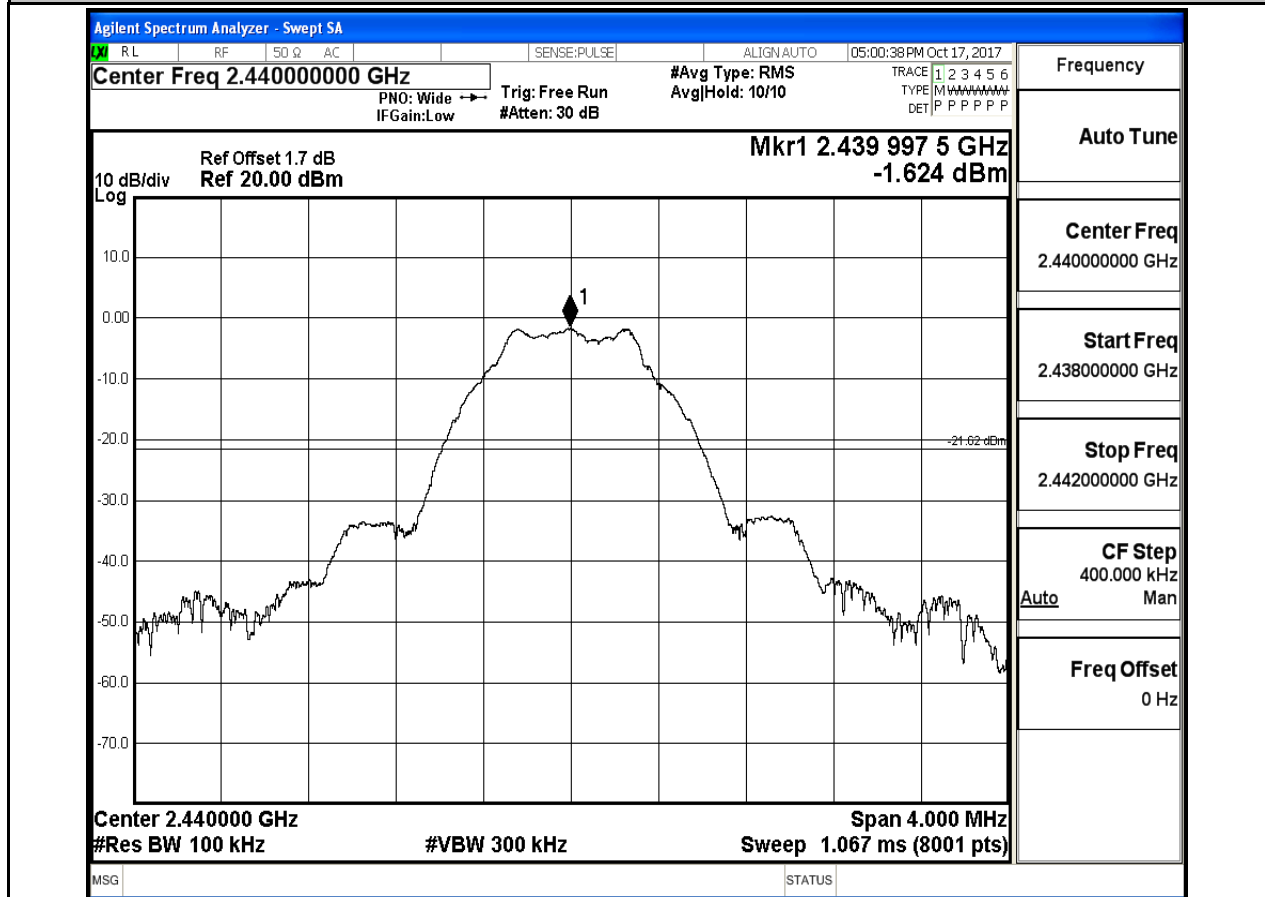
Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	100	300	-1.967	-54.572	<-21.967	PASS
BLE	2402	10000	25000	100	300	-1.967	-50.860	<-21.967	PASS
BLE	2440	30	10000	100	300	-1.624	-54.569	<-21.624	PASS
BLE	2440	10000	25000	100	300	-1.624	-50.403	<-21.624	PASS
BLE	2480	30	10000	100	300	-1.869	-54.887	<-21.869	PASS
BLE	2480	10000	25000	100	300	-1.869	-50.490	<-21.869	PASS

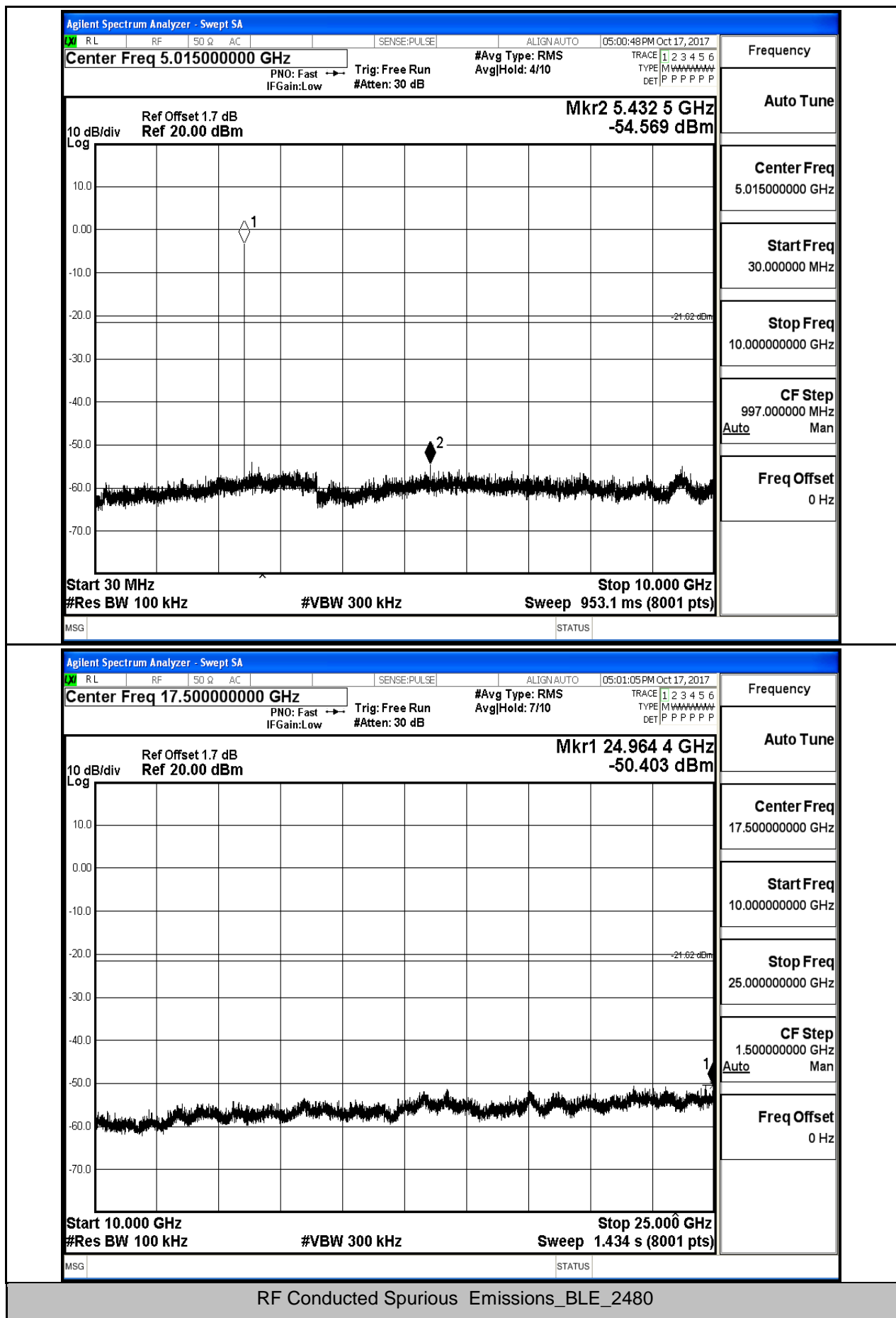
RF Conducted Spurious Emissions\_BLE\_2402





RF Conducted Spurious Emissions\_BLE\_2440





Frequency

Auto Tune

Center Freq  
17.500000000 GHz

Start Freq  
10.000000000 GHz

Stop Freq  
25.000000000 GHz

CF Step  
1.500000000 GHz  
Auto Man

Freq Offset  
0 Hz

Ref Offset 1.7 dB

Ref 20.00 dBm

Mkr1 24.964 4 GHz

-50.403 dBm

10 dB/div

Log

1

-21.62 dBm

Start 10.000 GHz

#Res BW 100 kHz

#VBW 300 kHz

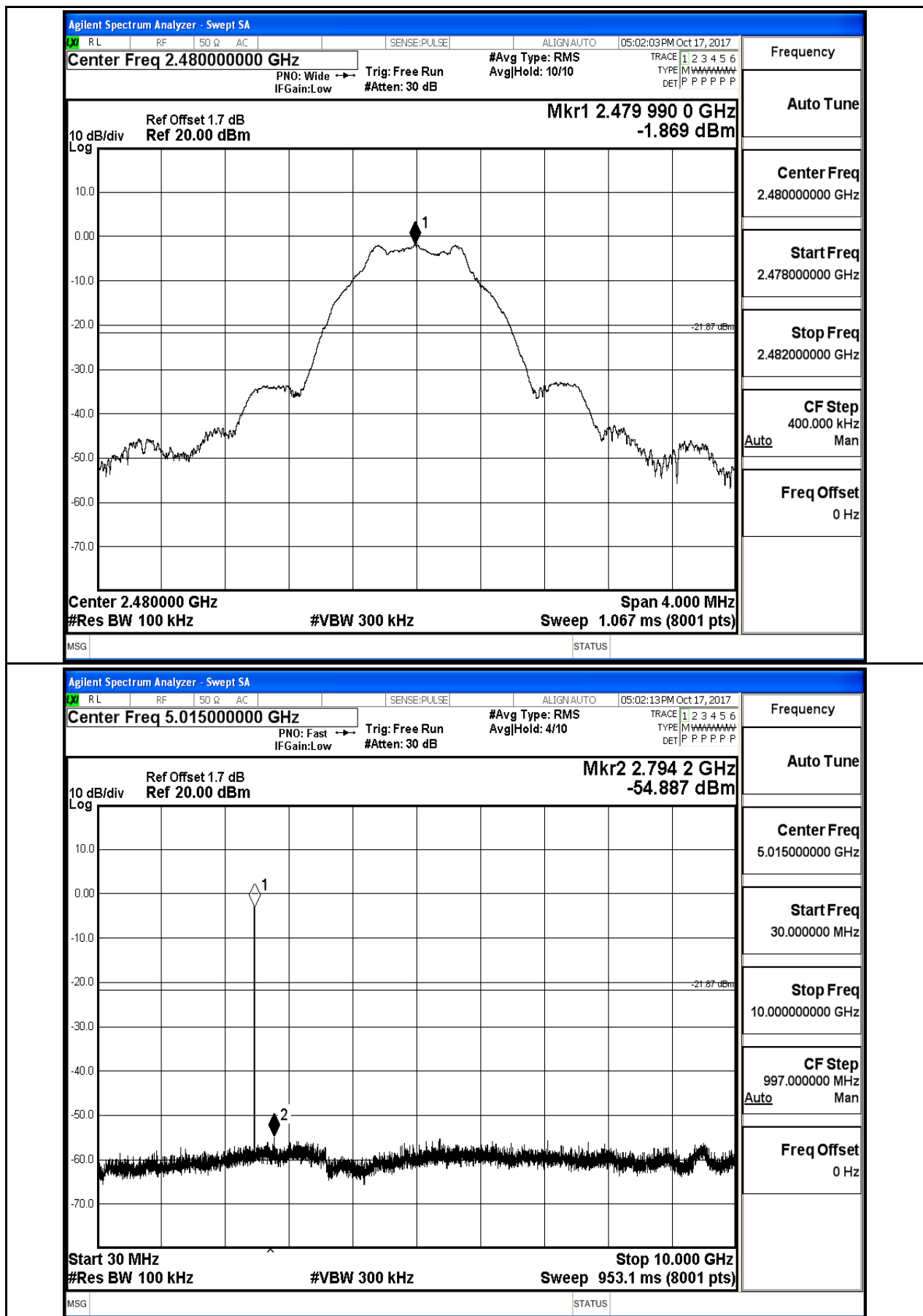
Stop 25.000 GHz

Sweep 1.434 s (8001 pts)

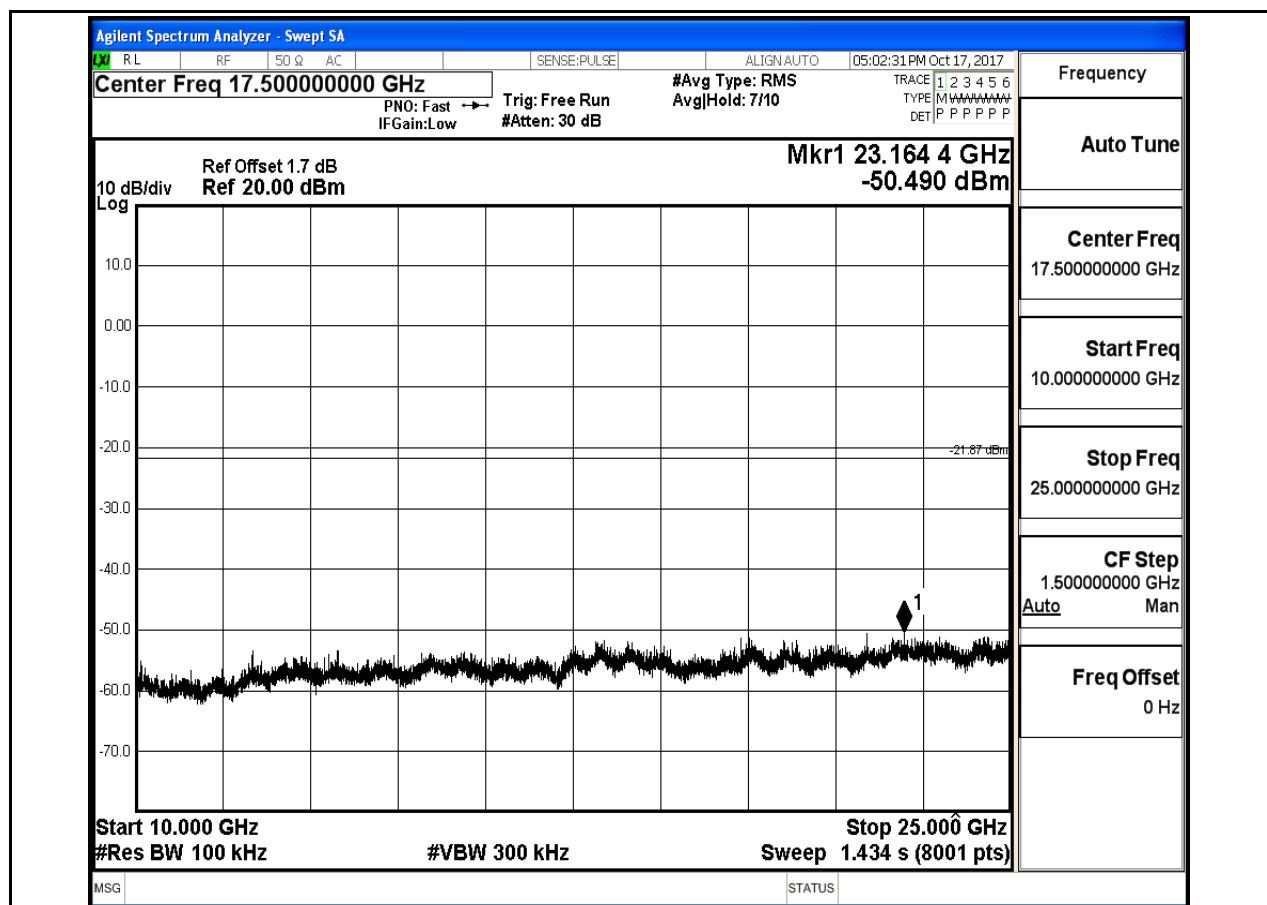
MSG

STATUS

RF Conducted Spurious Emissions\_BLE\_2480

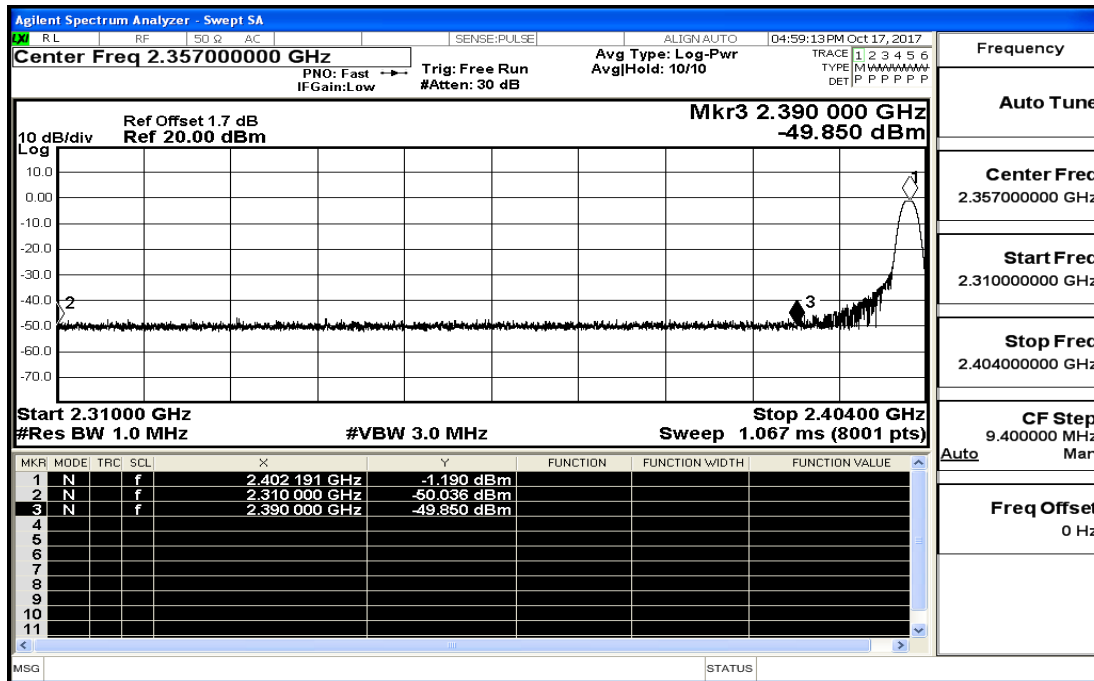




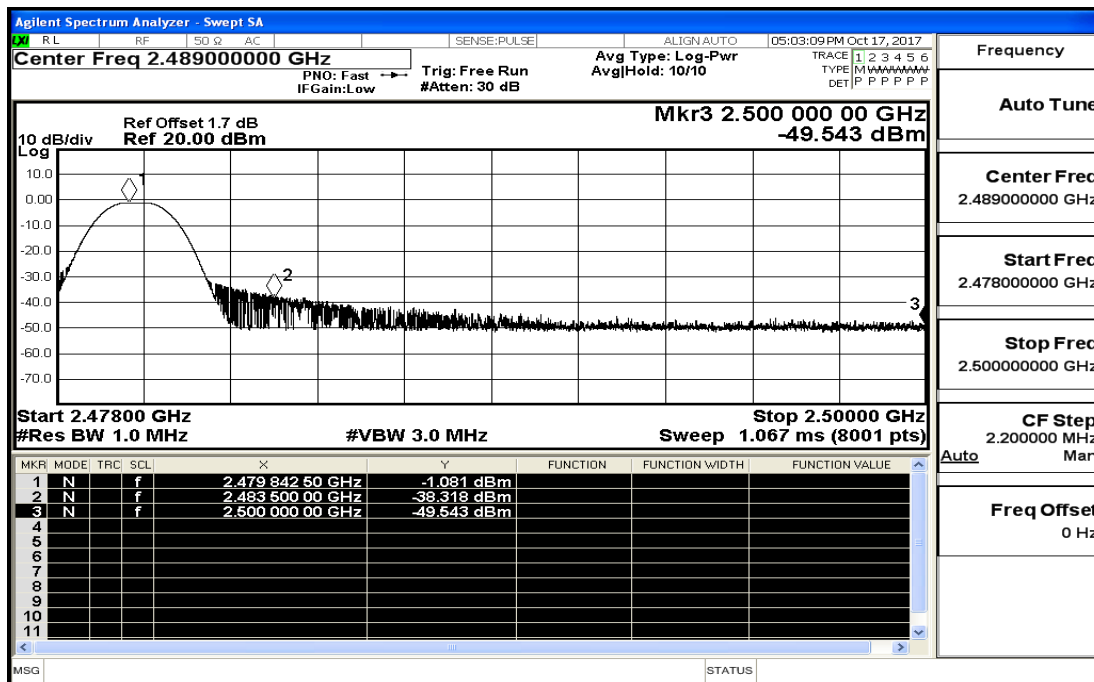


## 7.Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BLE	2402	2310.0	-50.04	2.0	0	47.22	PEAK	74	PASS
BLE	2402	2390.0	-49.85	2.0	0	47.41	PEAK	74	PASS
BLE	2480	2483.5	-38.32	2.0	0	58.94	PEAK	74	PASS
BLE	2480	2500.0	-49.54	2.0	0	47.72	PEAK	74	PASS



Restrict-band band-edge measurements\_BLE\_2402\_PEAK



Restrict-band band-edge measurements\_BLE\_2480\_PEAK

