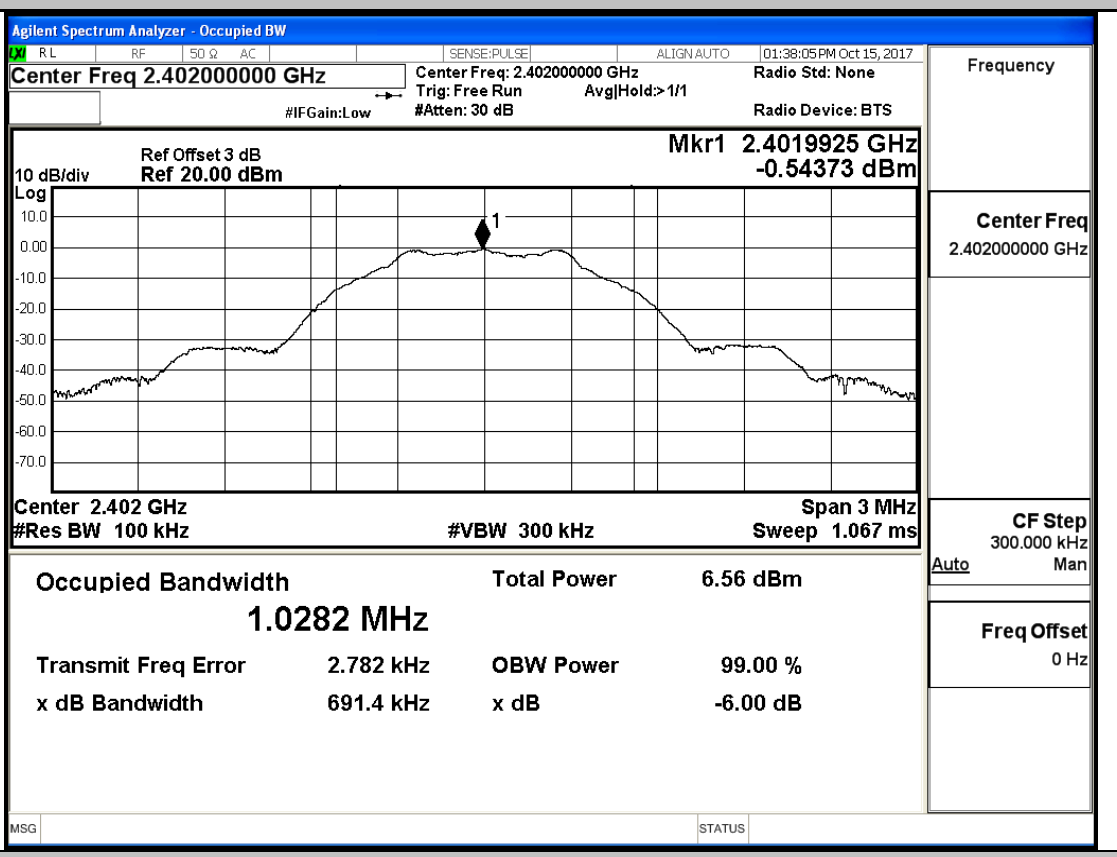
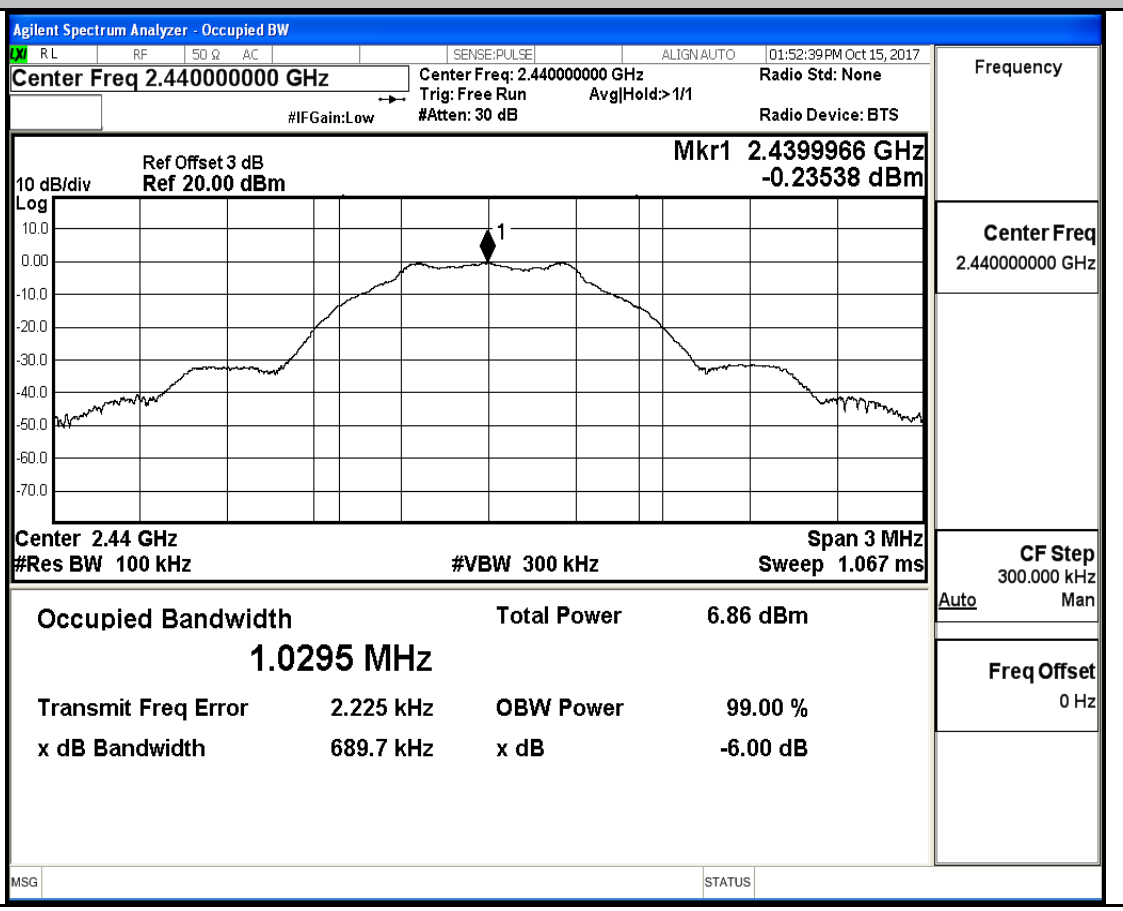
1.6 dB Bandwidth&99%Occupied Bandwidth

Test Mode	Test Channel	99% Occupied Bandwidth [MHz]	6dB EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	1.2389	0.6914	0.5	PASS
BLE	2440	1.2277	0.6897	0.5	PASS
BLE	2480	1.2277	0.6774	0.5	PASS

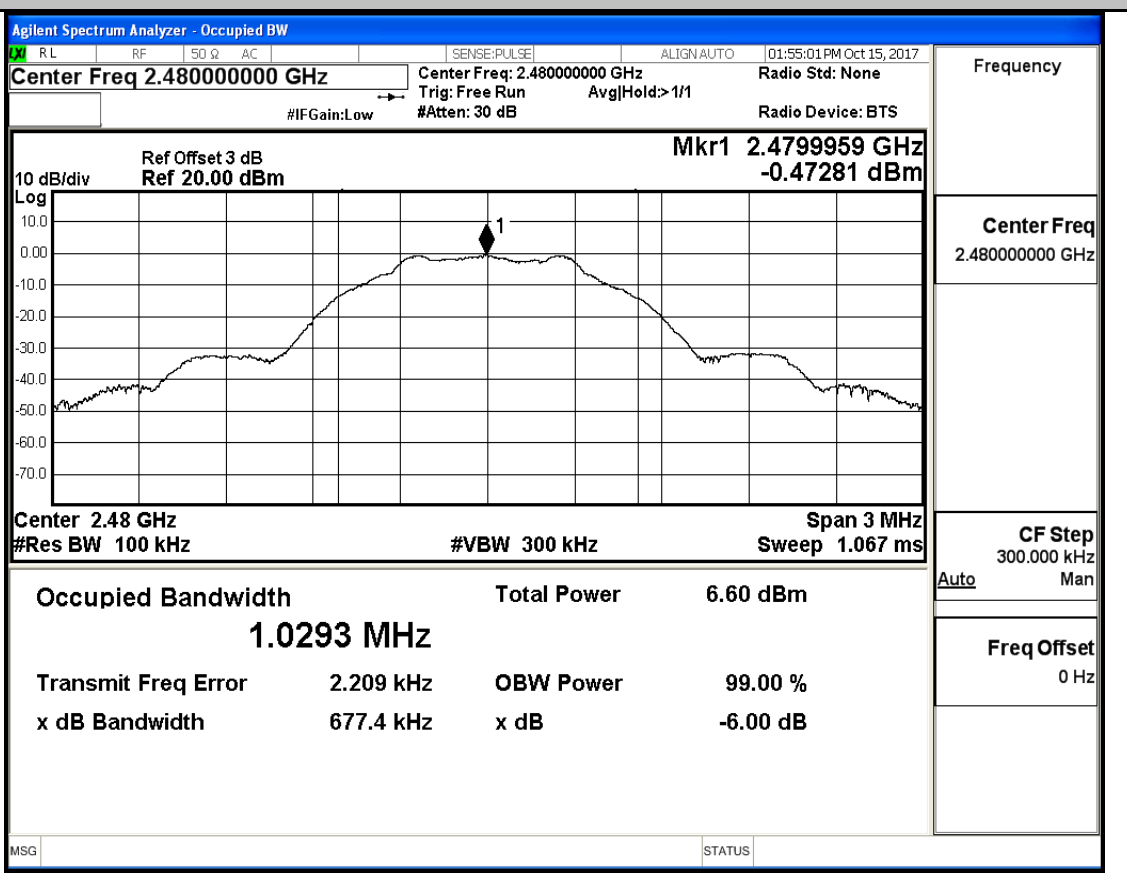
20 dB Bandwidth_BLE_2402



20 dB Bandwidth_BLE_2440



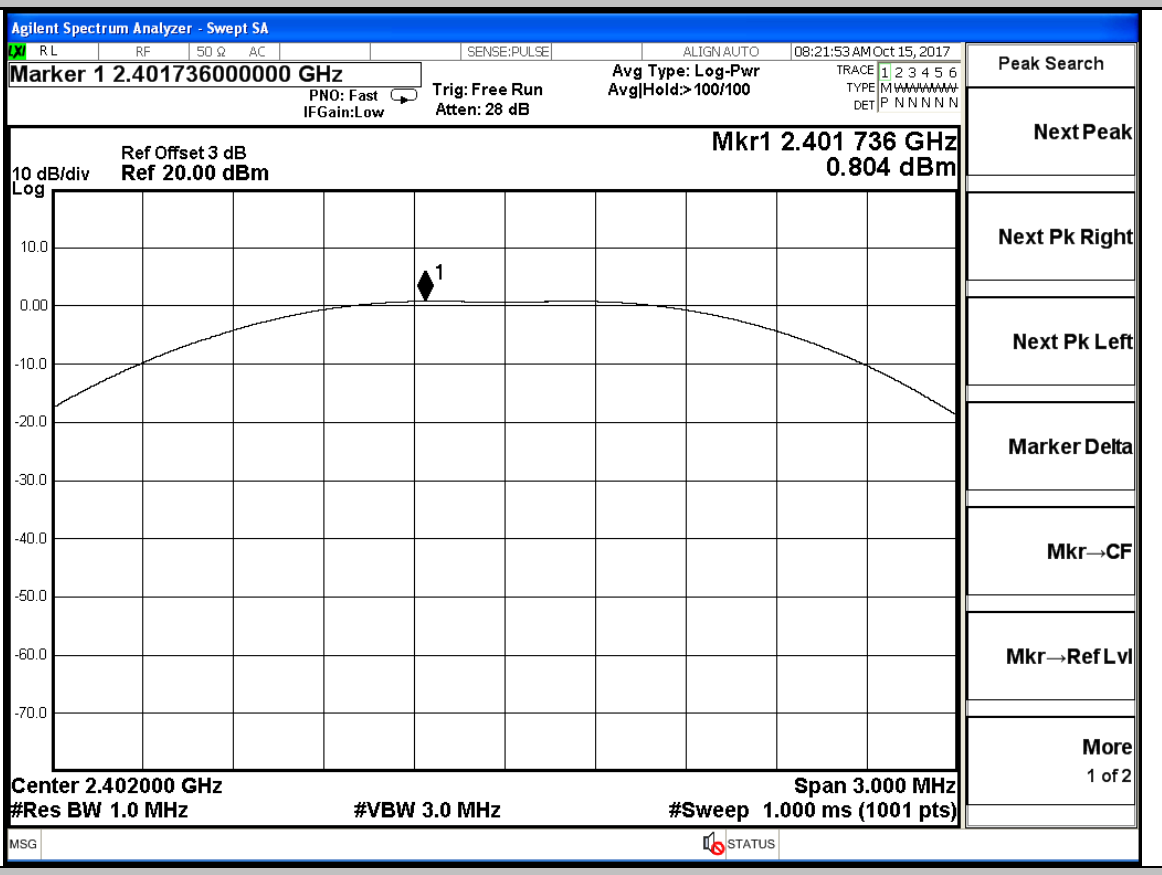
20 dB Bandwidth_BLE_2480



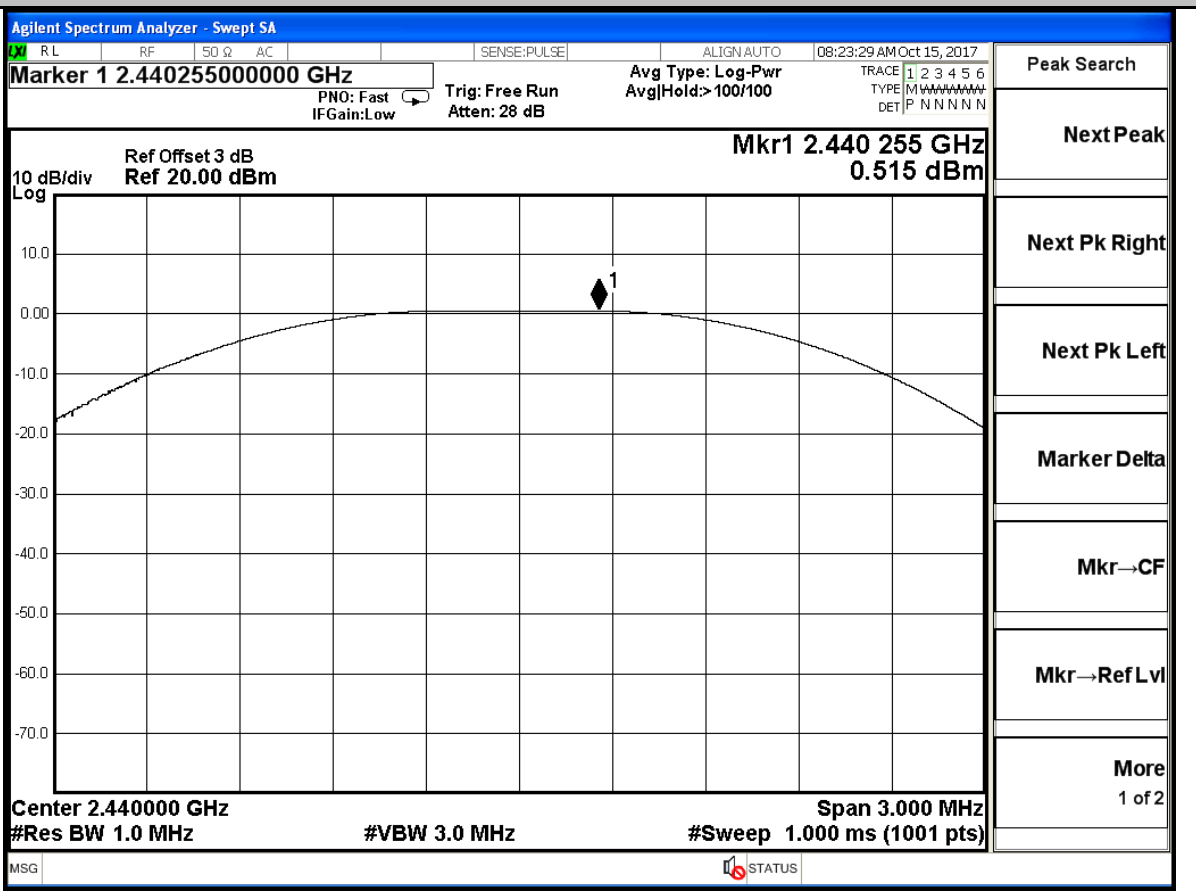
2.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	0.804	30	PASS
BLE	2440	Ant1	0.515	30	PASS
BLE	2480	Ant1	0.546	30	PASS

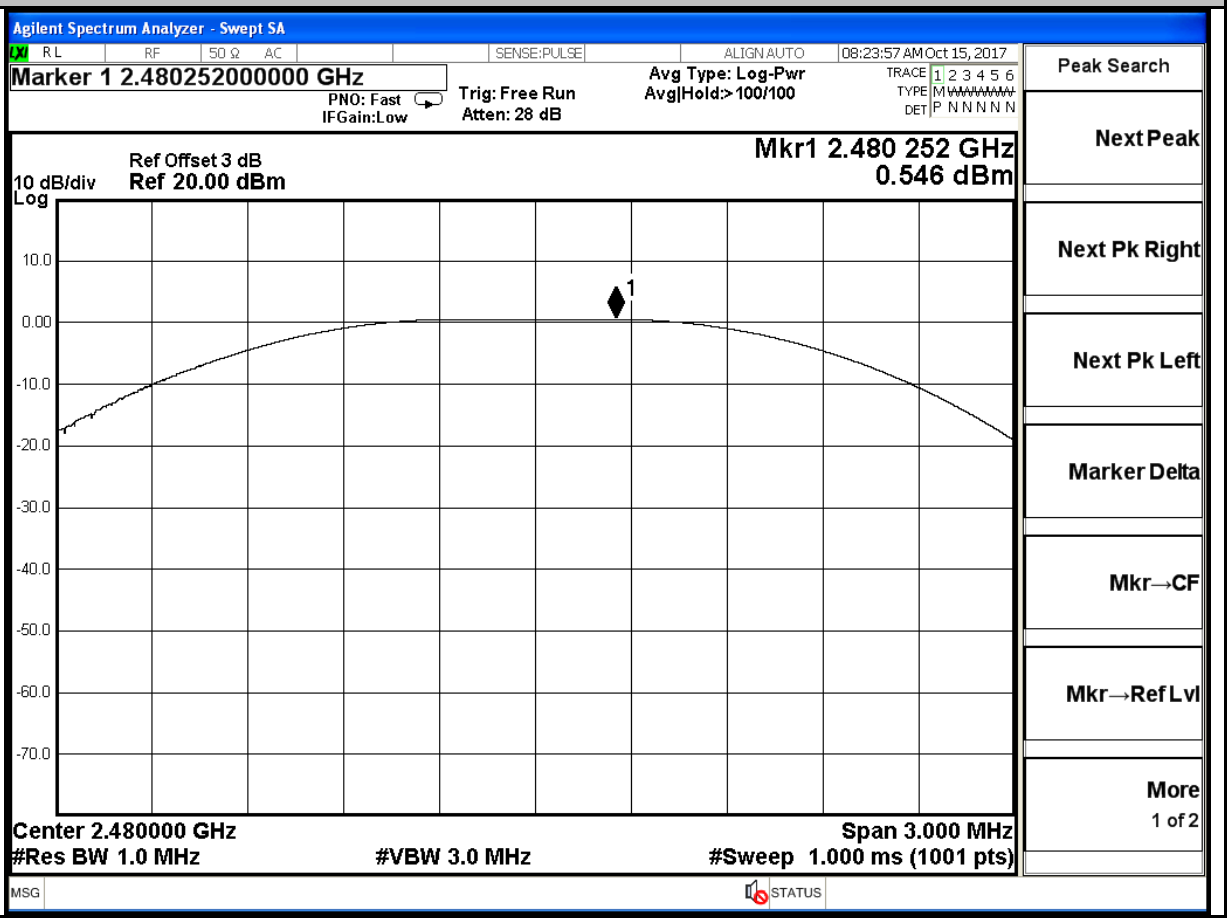
Conducted Peak Output Power_BLE_2402



Conducted Peak Output Power_BLE_2440



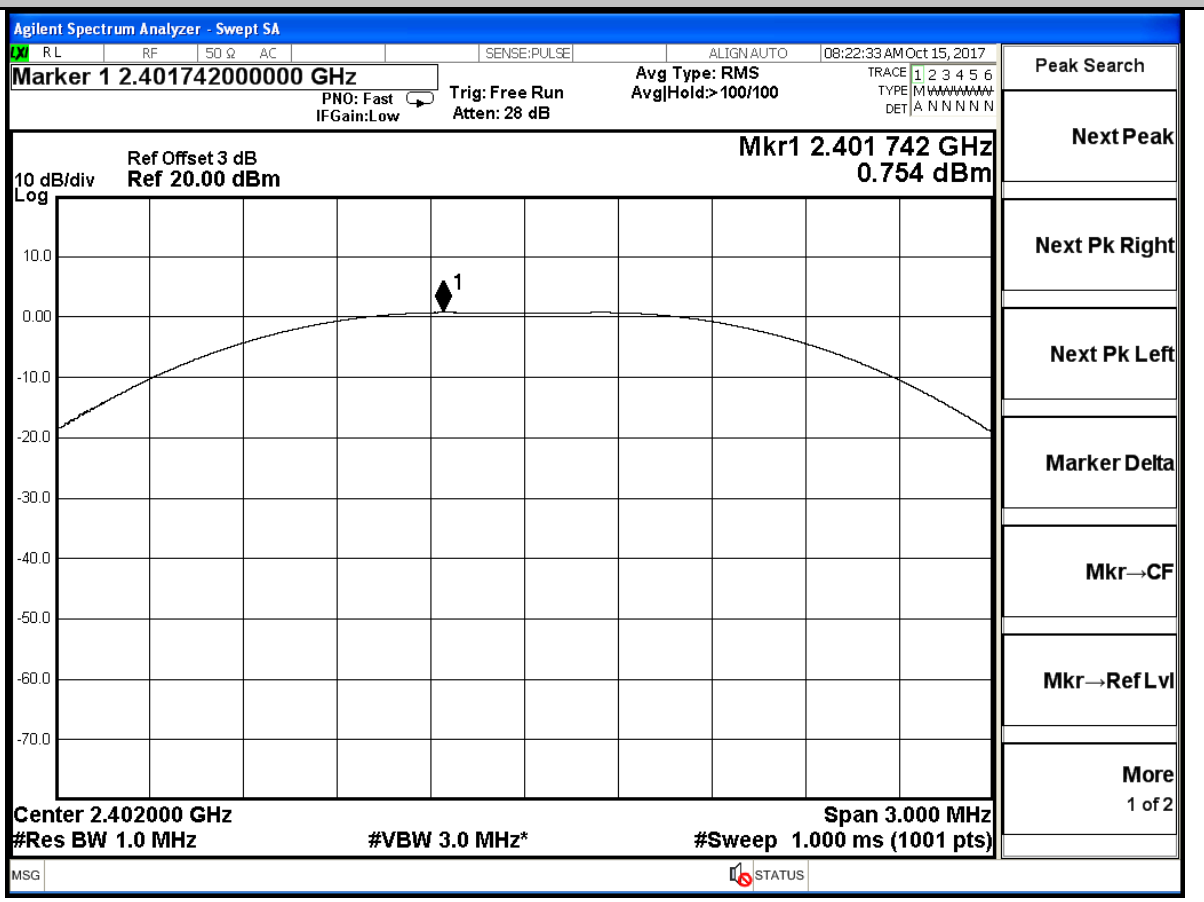
Conducted Peak Output Power_BLE_2480



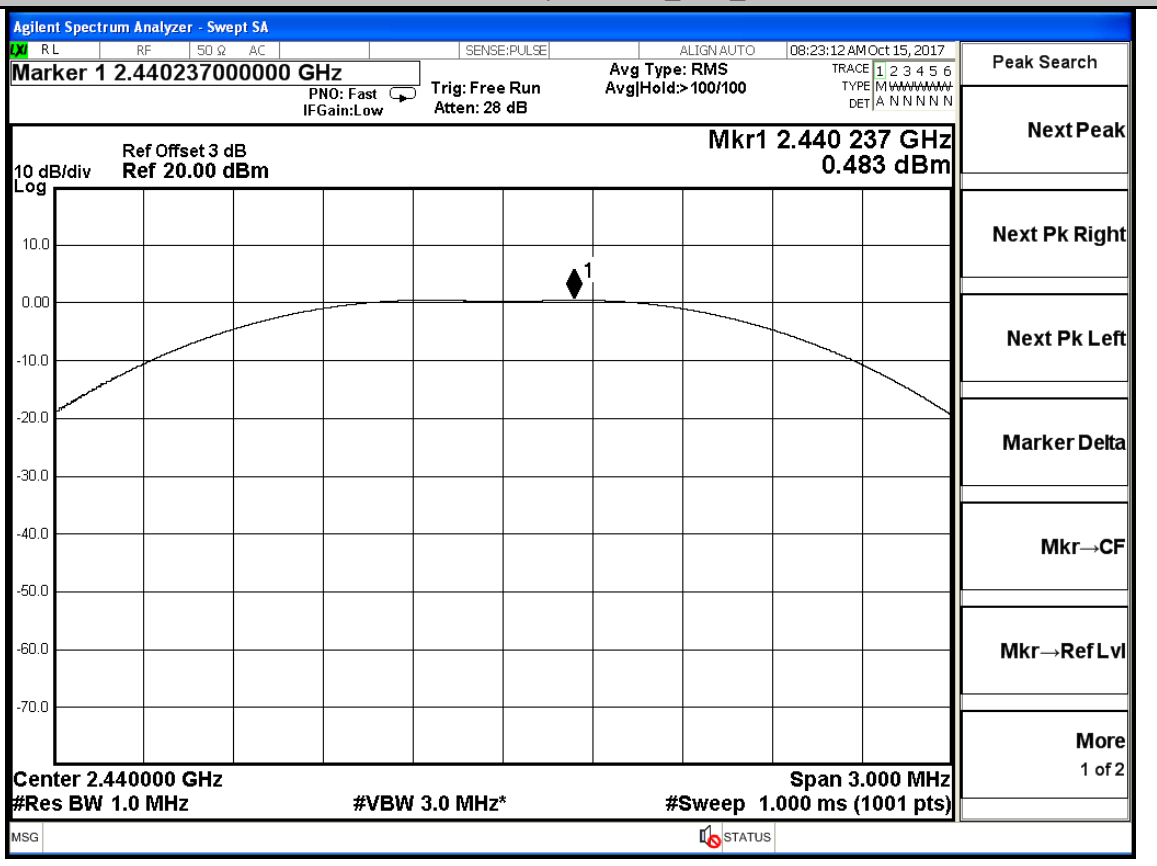
3.Maximum Average conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	0.754	30	PASS
BLE	2440	Ant1	0.483	30	PASS
BLE	2480	Ant1	0.504	30	PASS

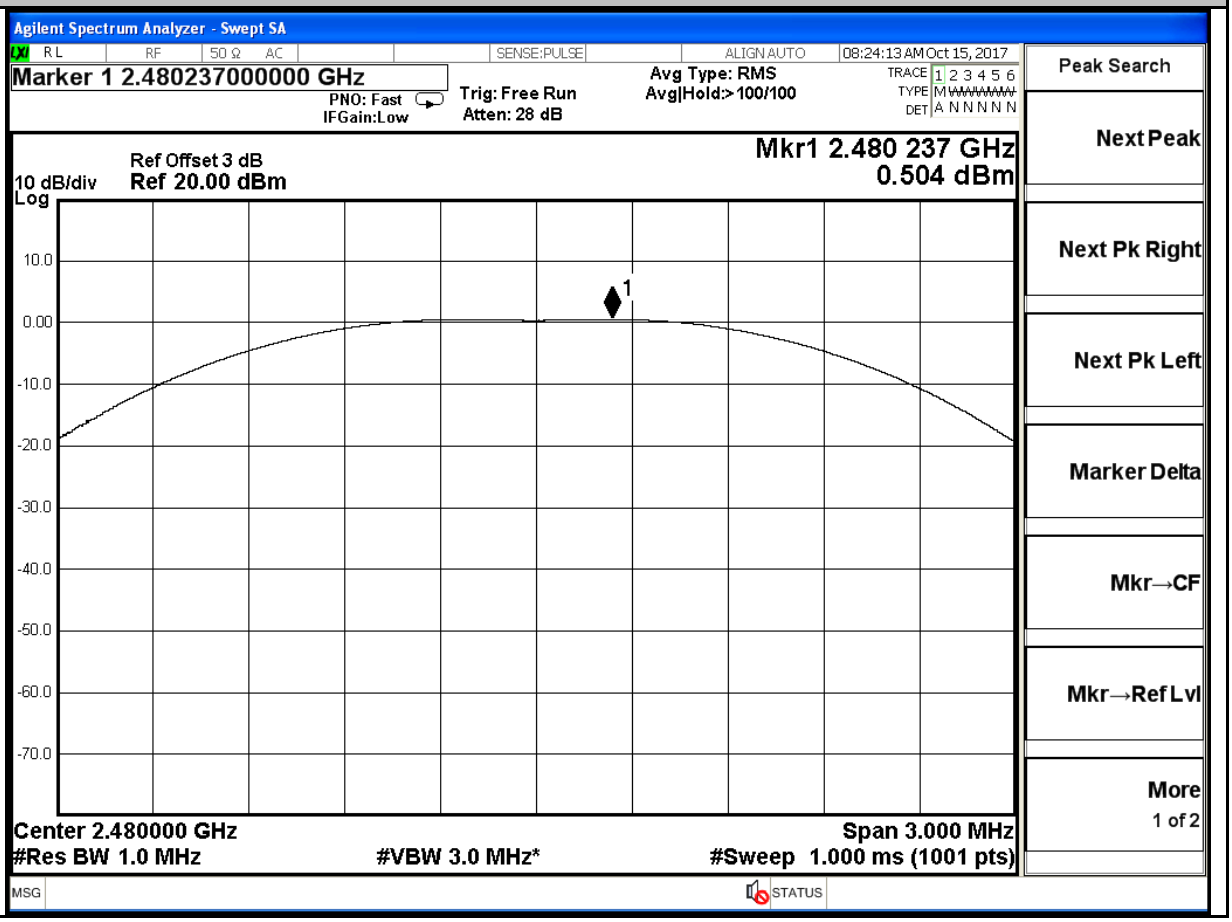
Conducted AVG Output Power_BLE_2402



Conducted AVG Output Power_BLE_2440



Conducted AVG Output Power_BLE_2480



4.Carrier Frequency Separation

Test Mode	Test Channel	Result[MHz]	Limit[MHz]	Verdict

5.Dwell Time

Test Mode	Test Channel	Burst Width[ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit[s]	Verdict

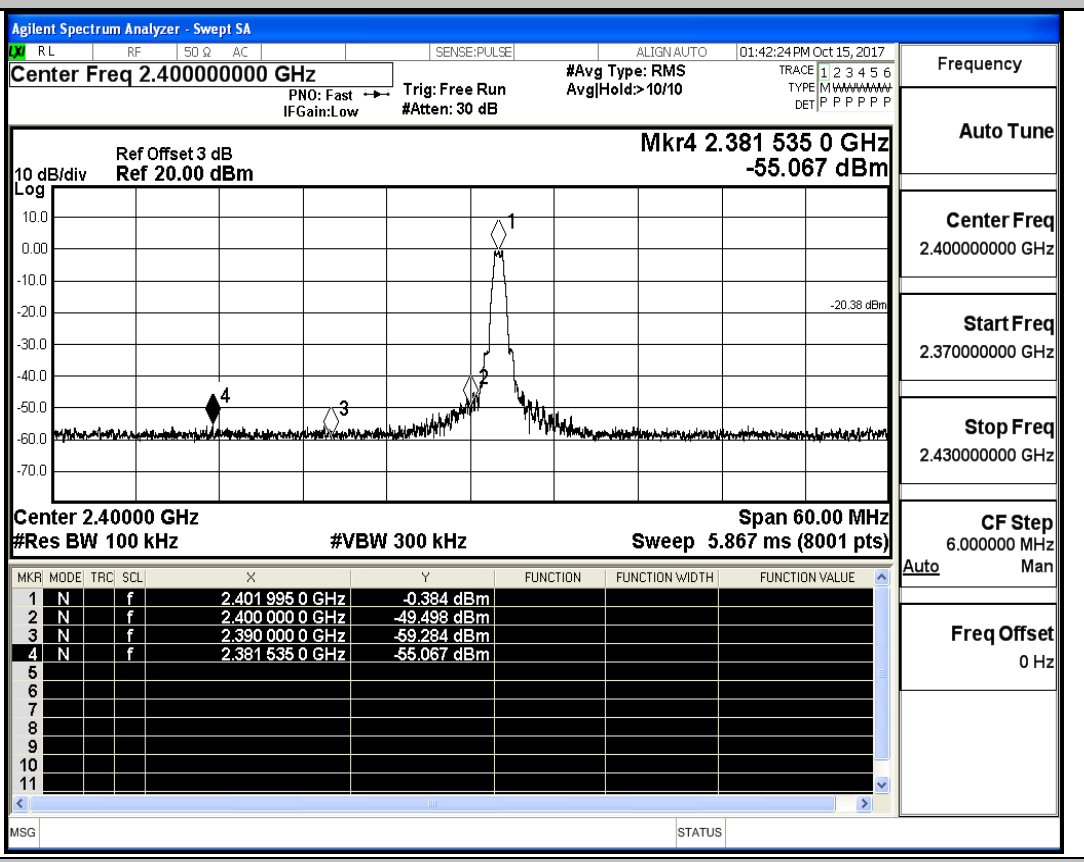
6.Hopping Channel Number

Test Mode	Test Channel	Number of Hopping Channel[N]	Limit[N]	Verdict

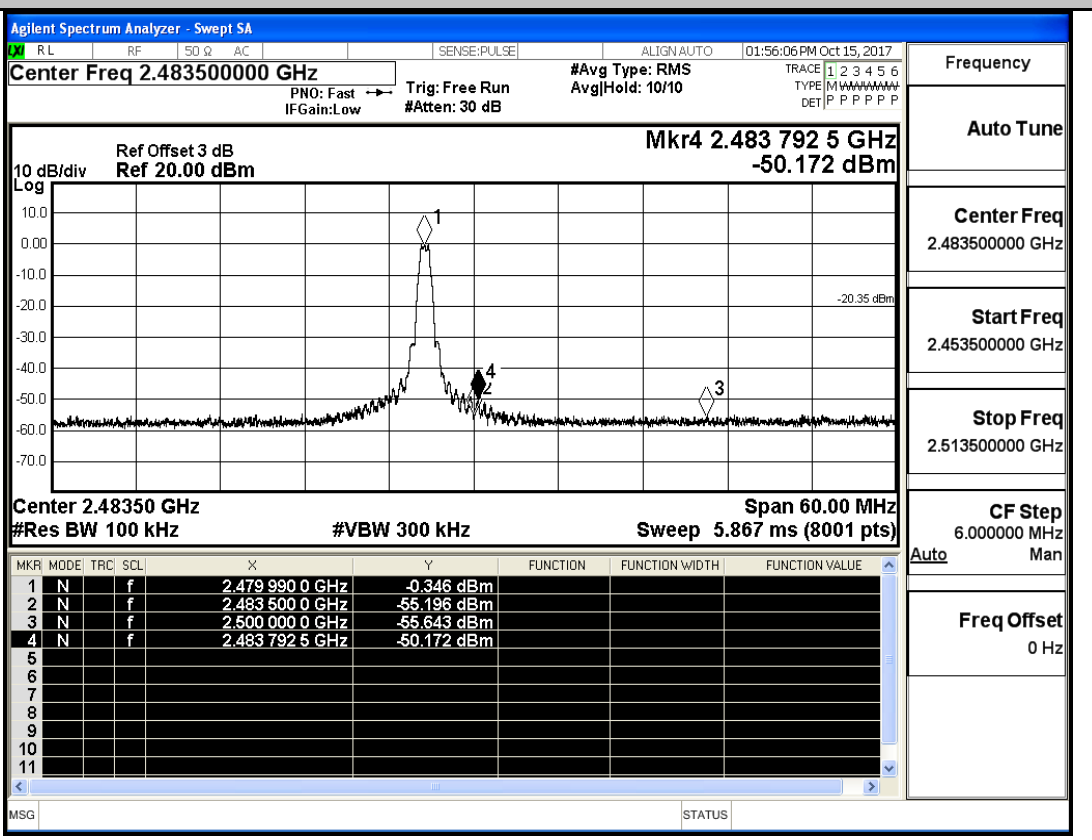
7.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Hopping	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit[dBm]	Verdict
BLE	2402	Off	-0.384	-55.067	-20.38	PASS
BLE	2480	Off	-0.346	-50.172	-20.35	PASS

Band-edge for RF Conducted Emissions_BLE_2402_Hopping Off



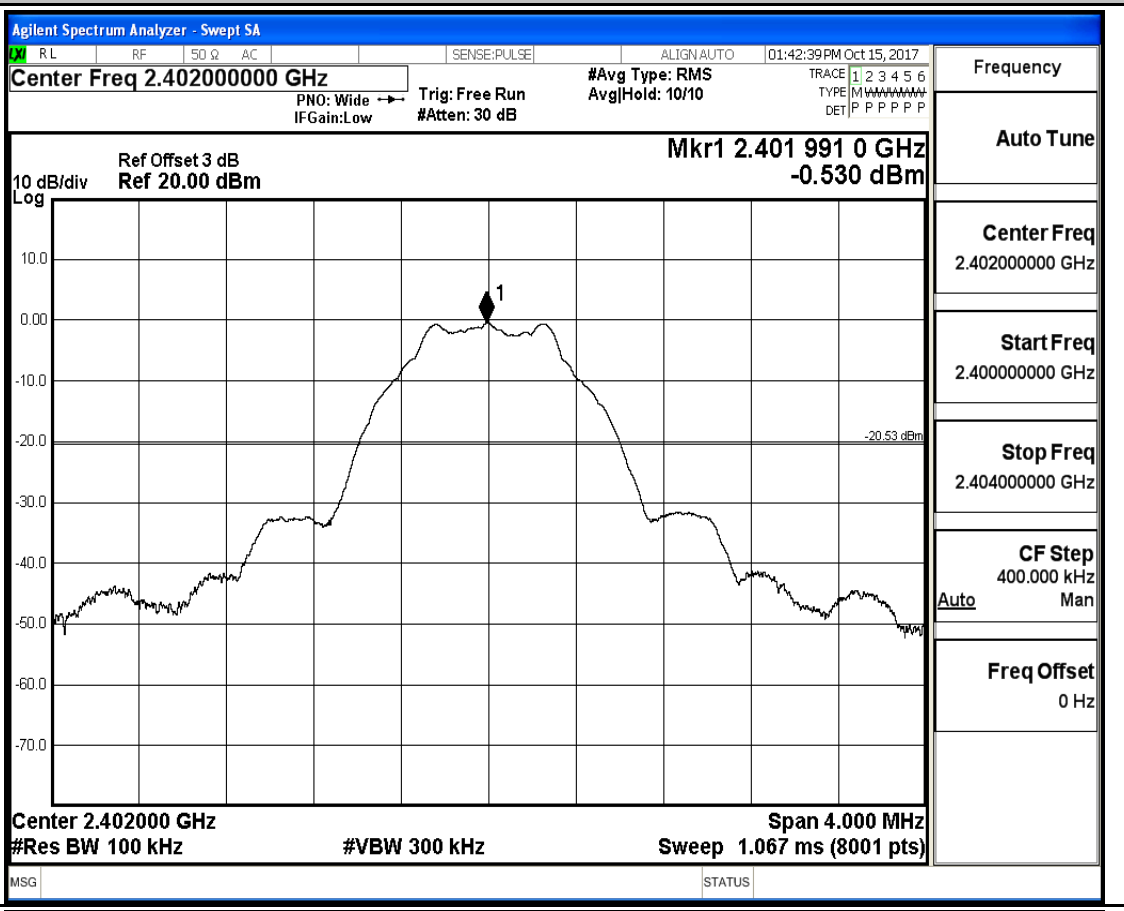
Band-edge for RF Conducted Emissions_BLE_2480_Hopping Off

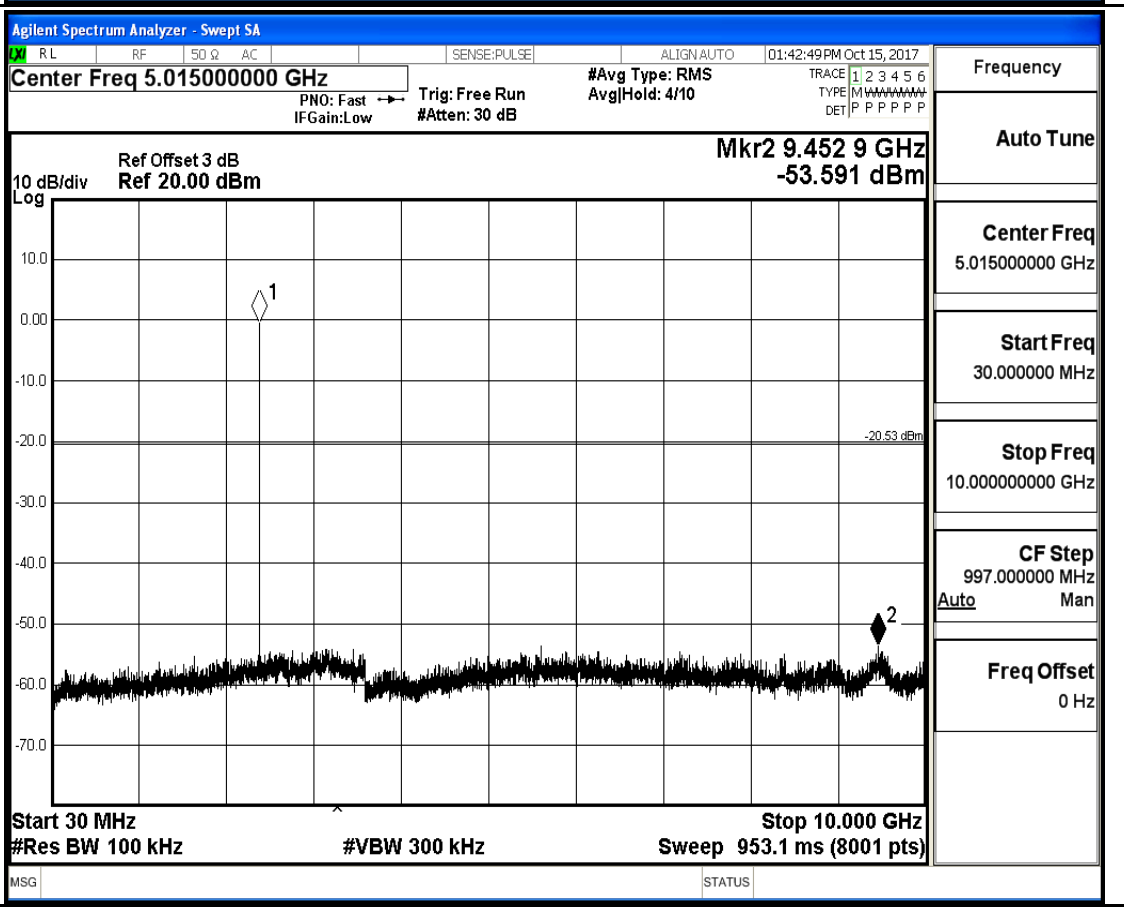


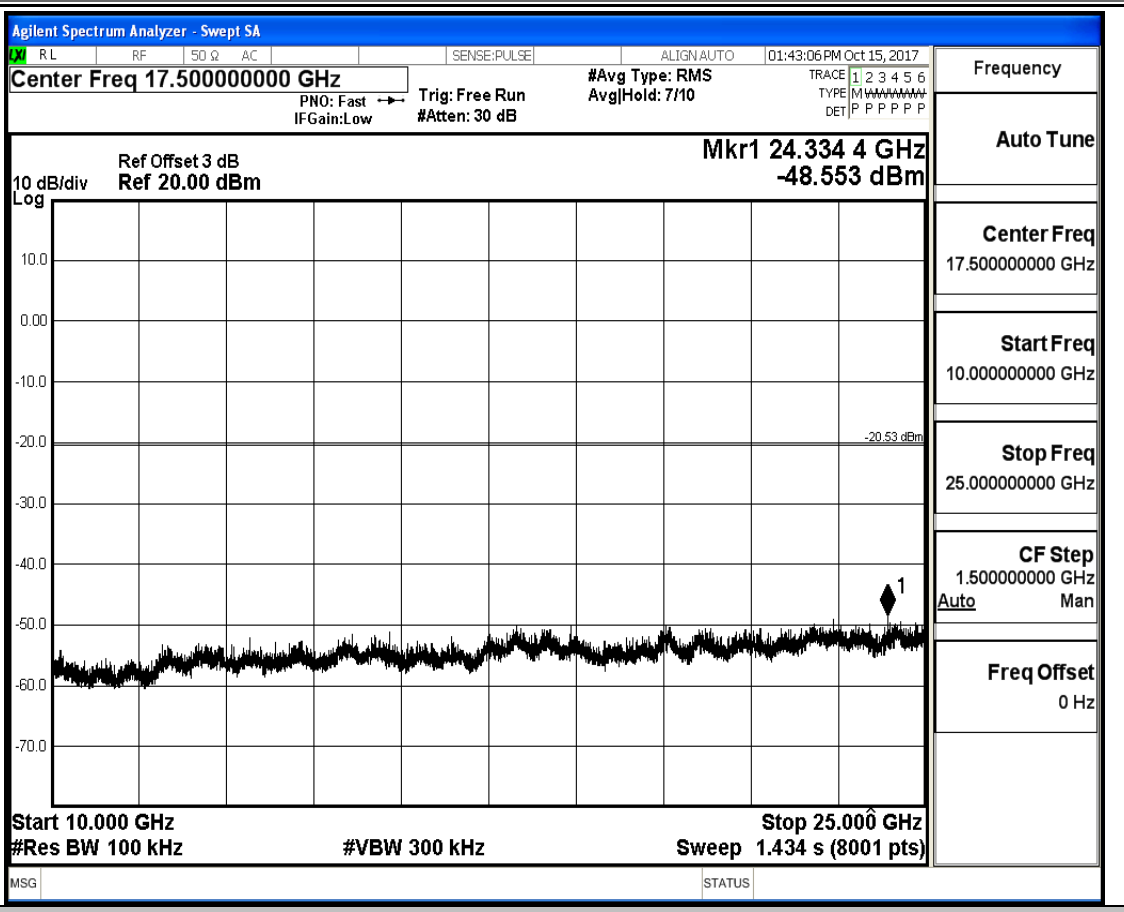
8.RF Conducted Spurious Emissions and PSD

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	-0.53	-53.591	<-20.53	PASS
BLE	2402	10000	25000	100	300	-0.53	-48.553	<-20.53	PASS
BLE	2440	30	10000	100	300	-0.201	-52.670	<-20.201	PASS
BLE	2440	10000	25000	100	300	-0.201	-49.264	<-20.201	PASS
BLE	2480	30	10000	100	300	-0.482	-53.582	<-20.482	PASS
BLE	2480	10000	25000	100	300	-0.482	-49.243	<-20.482	PASS

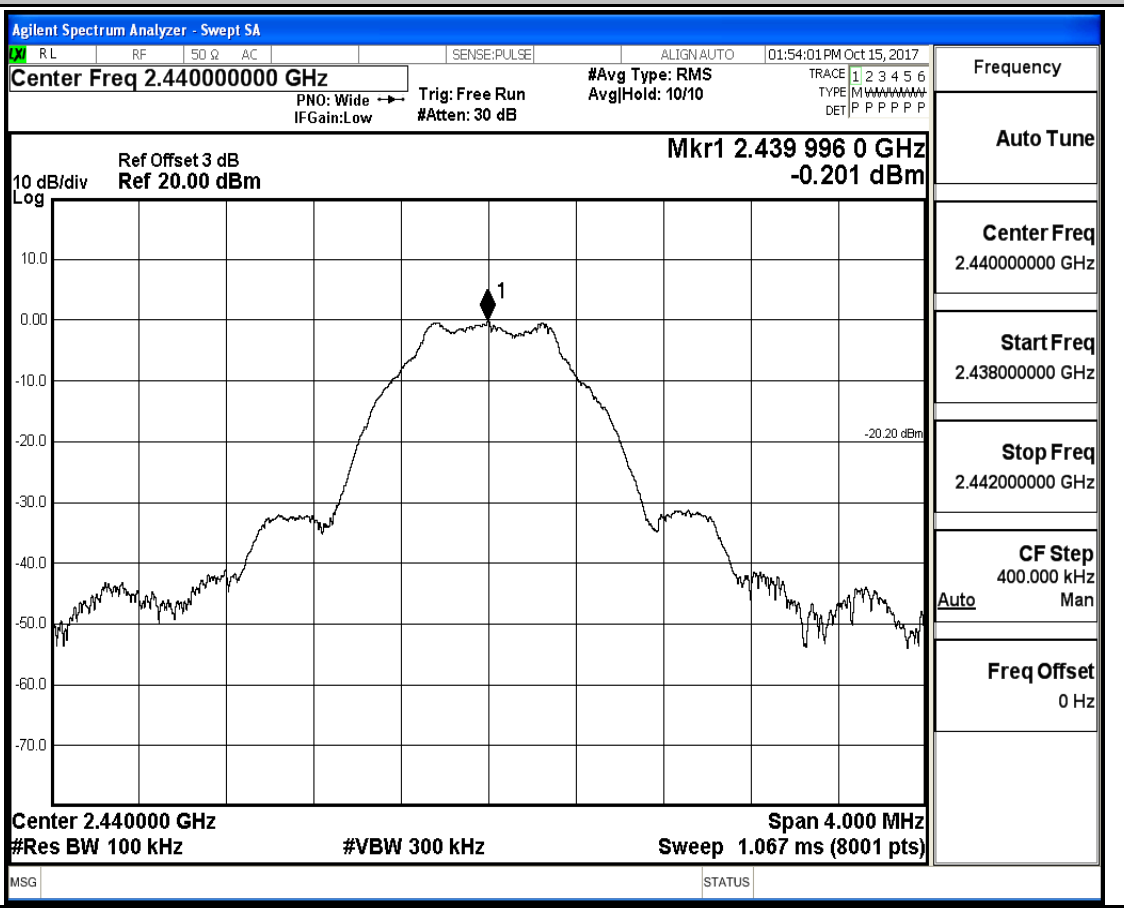
RF Conducted Spurious Emissions_BLE_2402

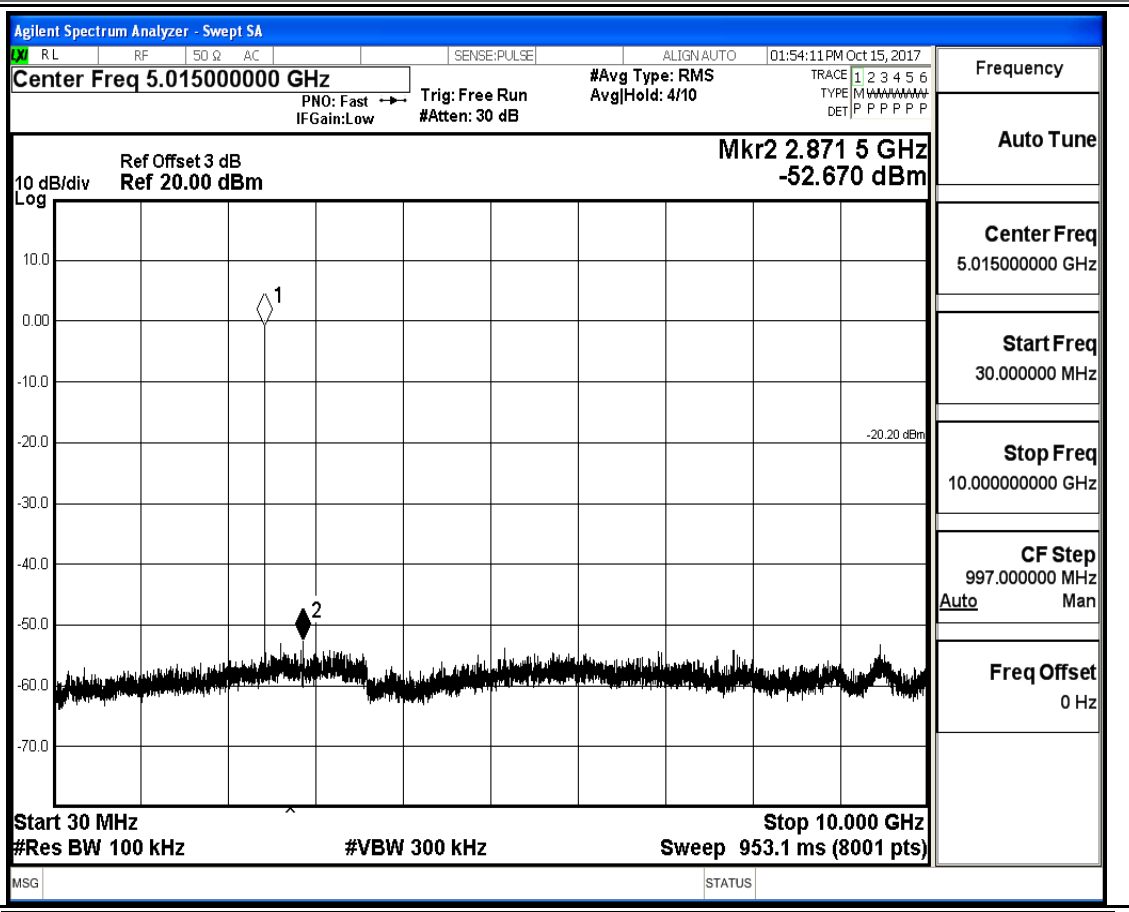


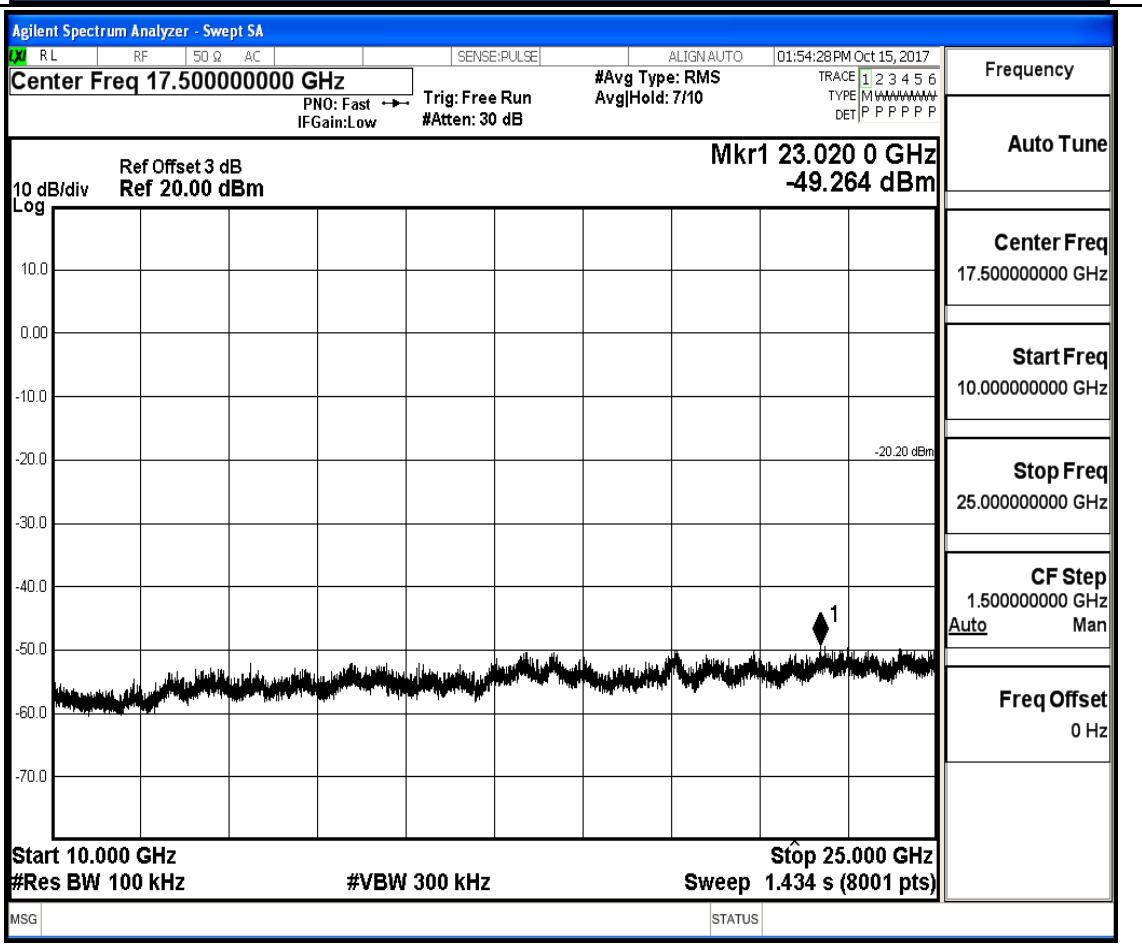




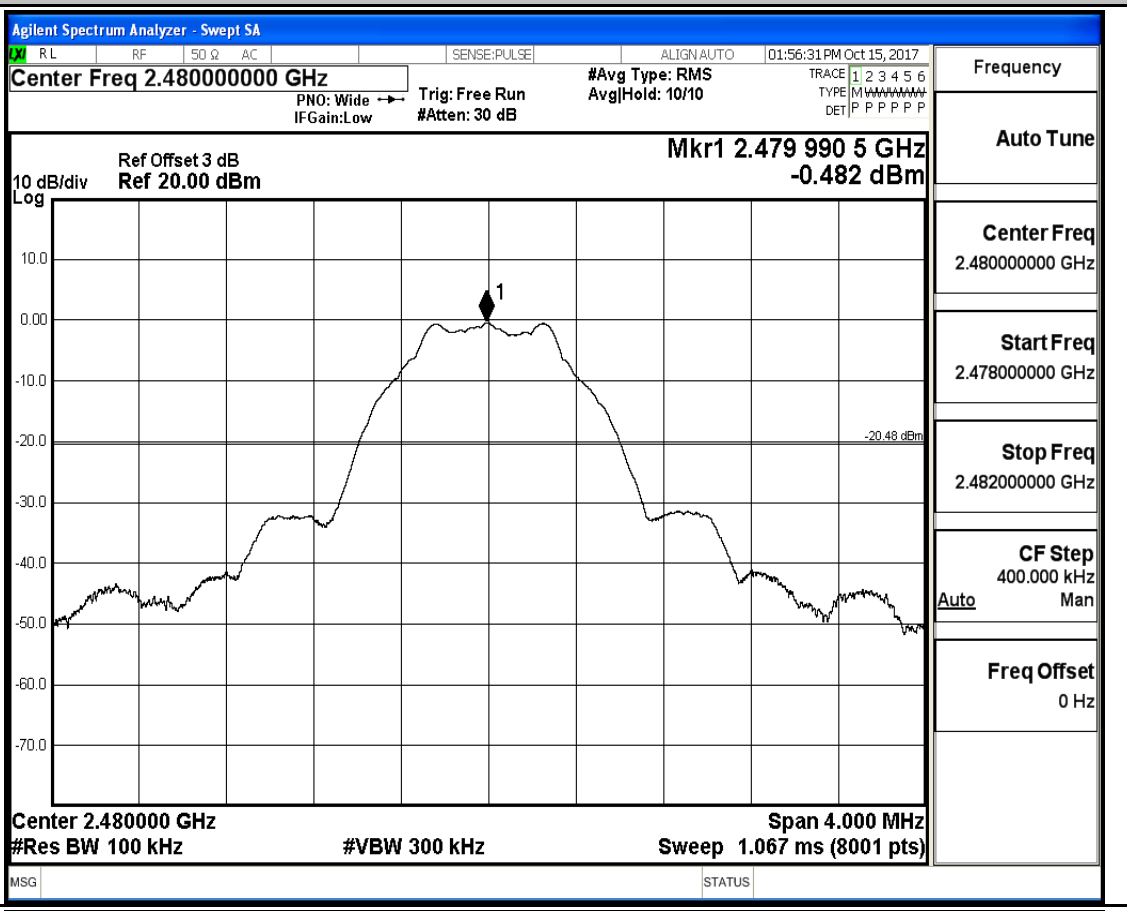
RF Conducted Spurious Emissions_BLE_2440

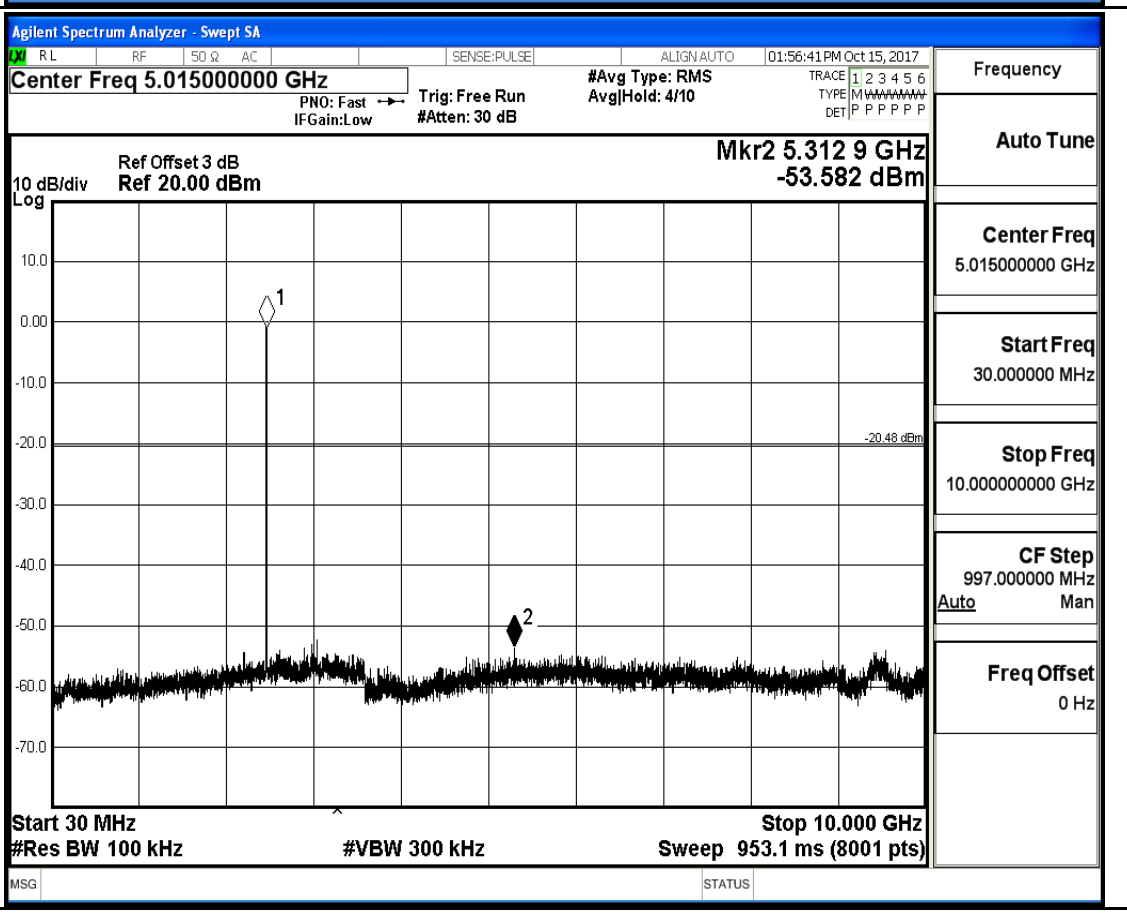


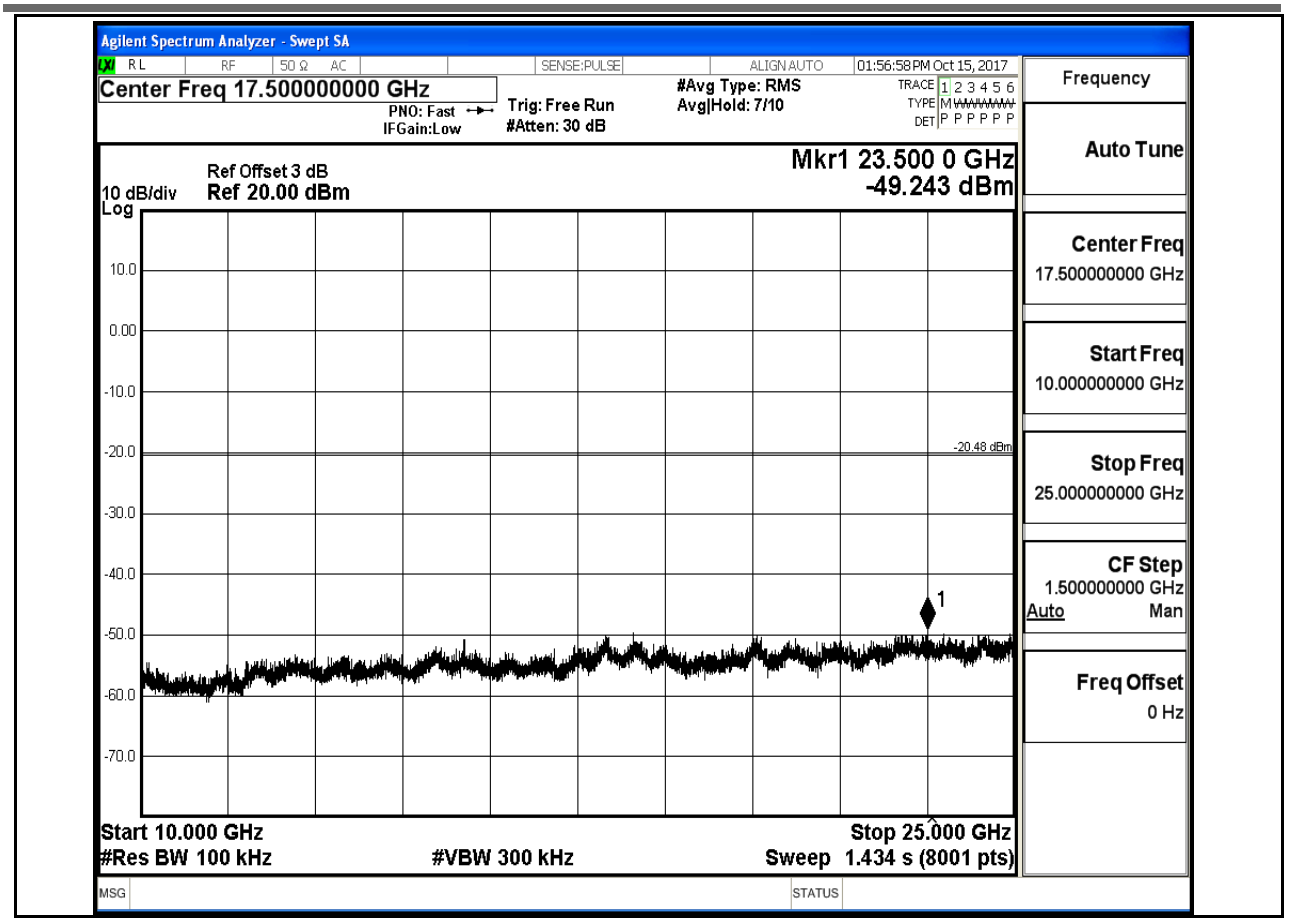

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 4/10
01:54:11 PM Oct 15, 2017
Ref Offset 3 dB
10 dB/div
Ref 20.00 dBm
Mkr2 2.871 5 GHz
-52.670 dBm
-20.20 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 953.1 ms (8001 pts)
Frequency
Auto Tune
Center Freq
5.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
10.000000000 GHz
CF Step
997.000000 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 17.500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 7/10
01:54:28 PM Oct 15, 2017
Ref Offset 3 dB
10 dB/div
Ref 20.00 dBm
Mkr1 23.020 0 GHz
-49.264 dBm
-20.20 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.434 s (8001 pts)
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

RF Conducted Spurious Emissions_BLE_2480



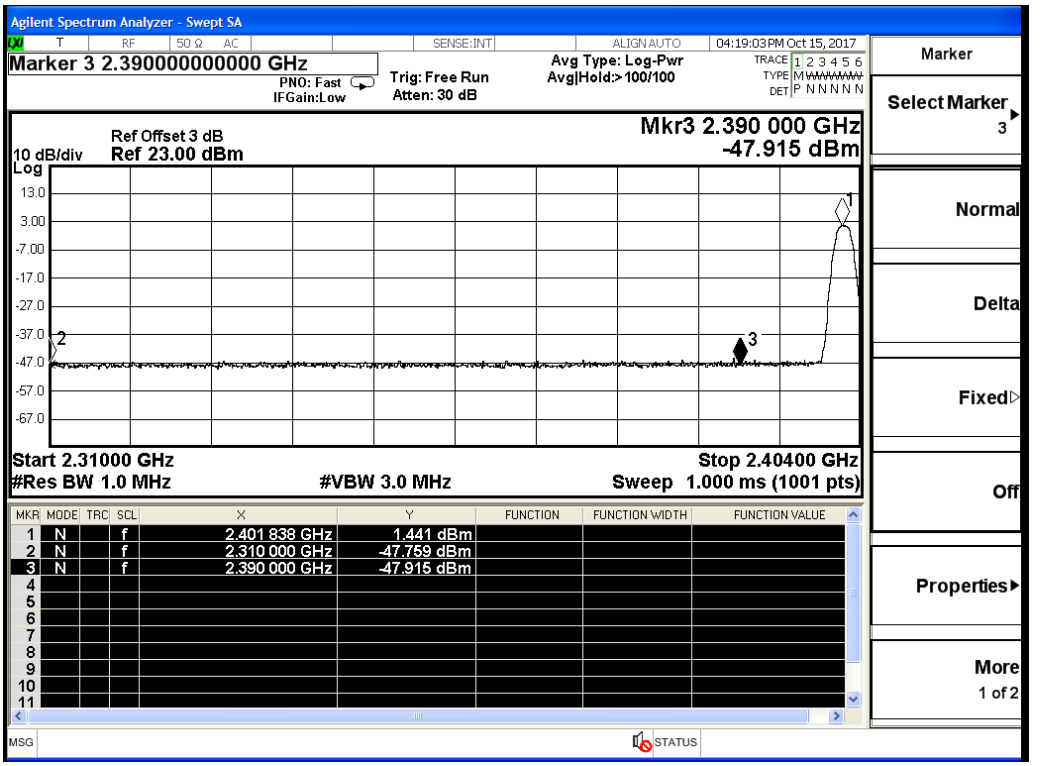




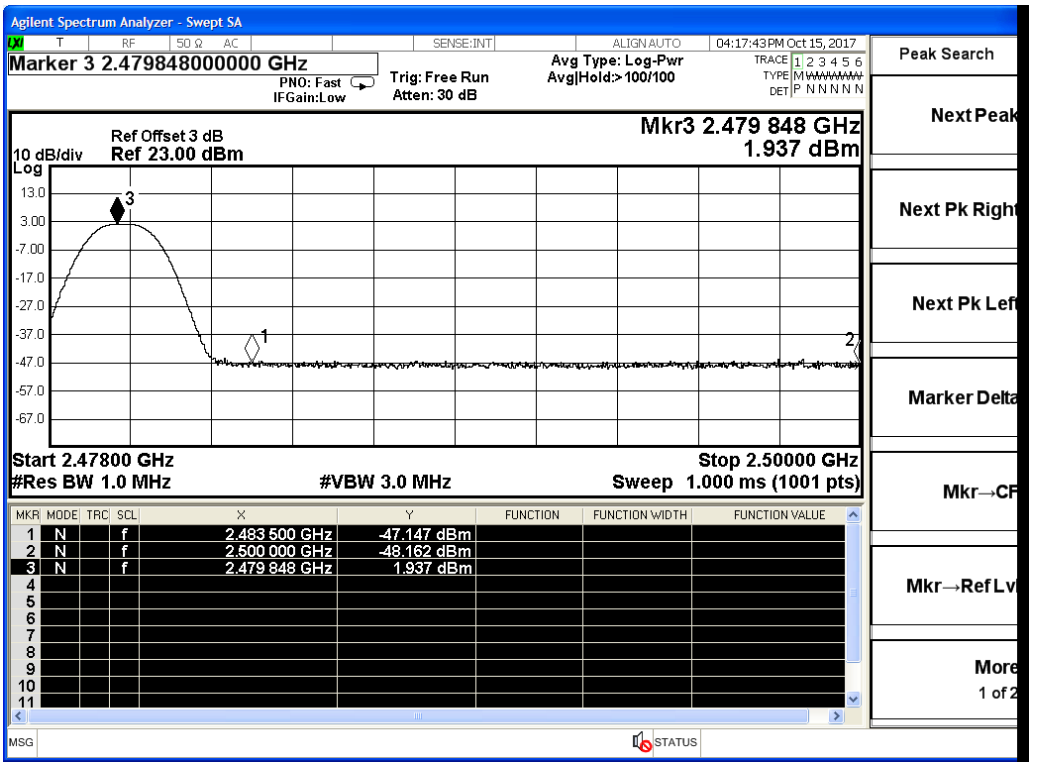
9.Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BLE	Off	2310.0	-47.76	2	0	49.500	PEAK	74	PASS
BLE	Off	2390.0	-47.92	2	0	49.340	PEAK	74	PASS
BLE	Off	2483.5	-47.15	2	0	50.110	PEAK	74	PASS
BLE	Off	2500.0	-48.16	2	0	49.100	PEAK	74	PASS

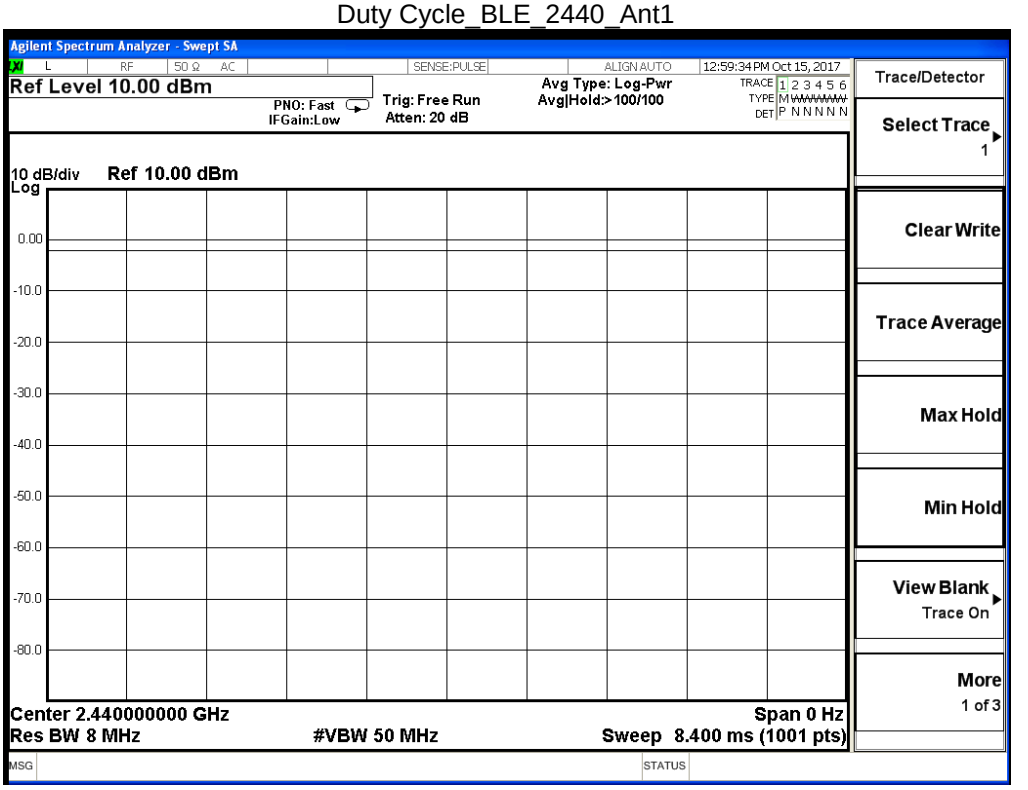
Restrict-band band-edge measurements_Hopping Off_PEAK-2402



Restrict-band band-edge measurements_Hopping Off_PEAK-2480



10. Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	100	PASS

Duty Cycle_BLE_2440_Ant1