

Appendix A

RF Test Data for BT(BLE) (Conducted Measurement)

Product Name: HEATED APPAREL

Trade Mark: **DEWBU**Test Model: DB-118
FCC ID: 2AUXI-DB-118

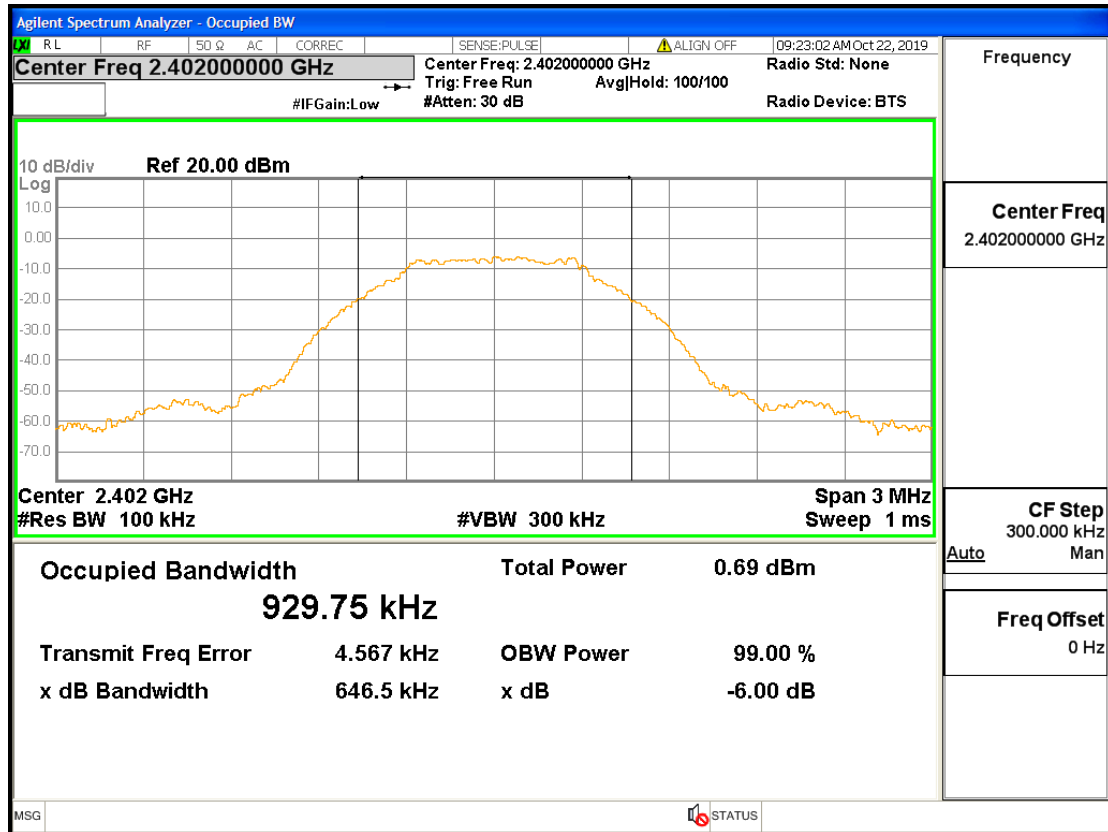
Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	60%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

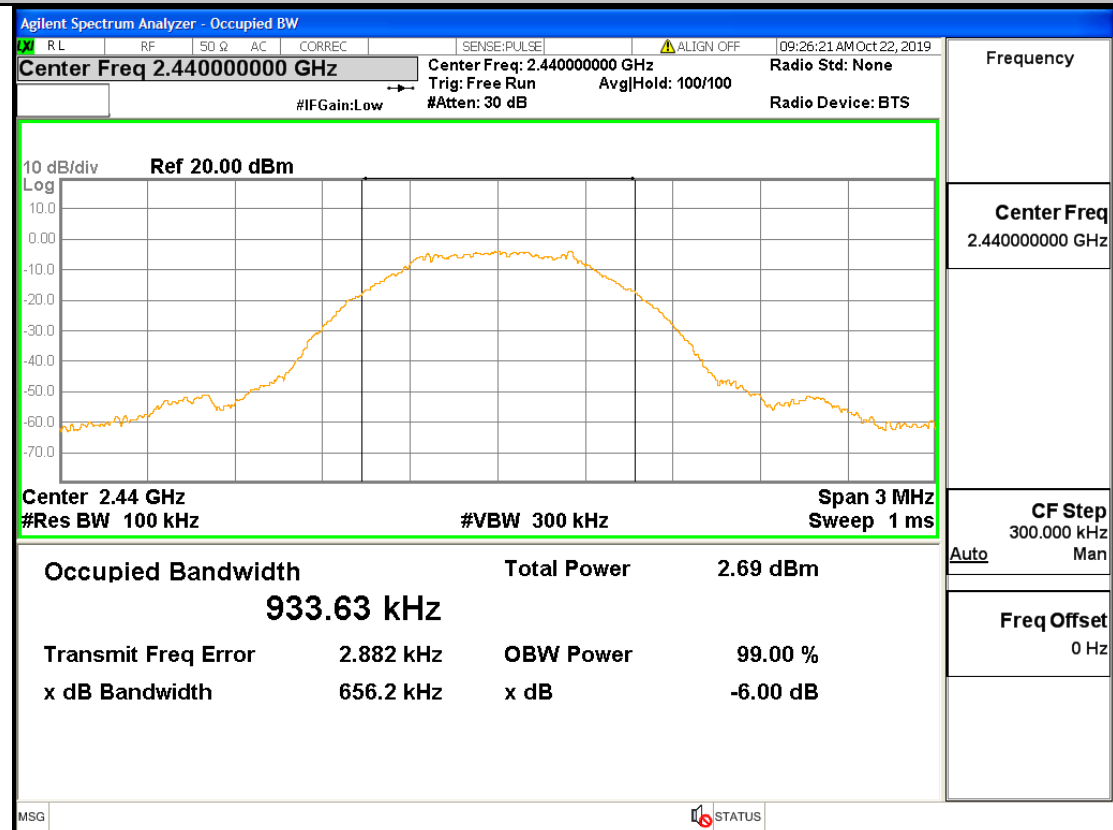
1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.647	0.5	PASS
BLE	2440	Ant1	0.656	0.5	PASS
BLE	2480	Ant1	0.638	0.5	PASS

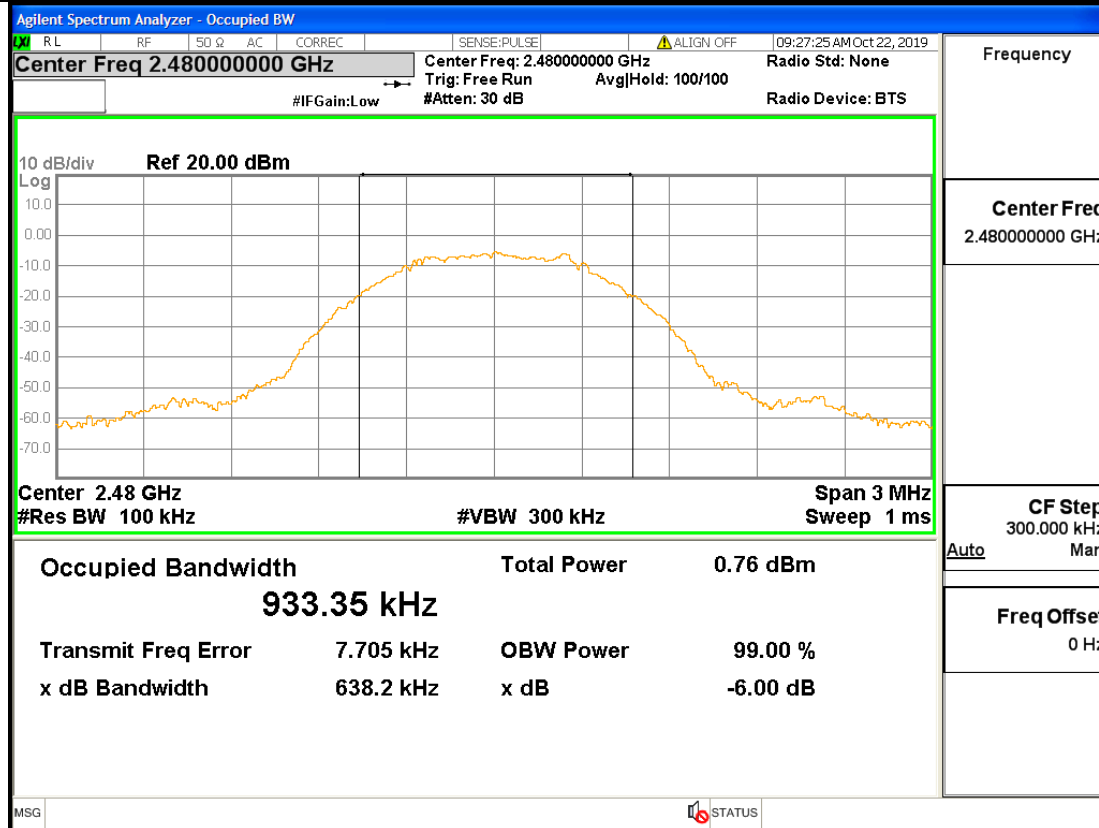
6dB Bandwidth_BLE_2402_Ant1



6dB Bandwidth_BLE_2440_Ant1



6dB Bandwidth_BLE_2480_Ant1



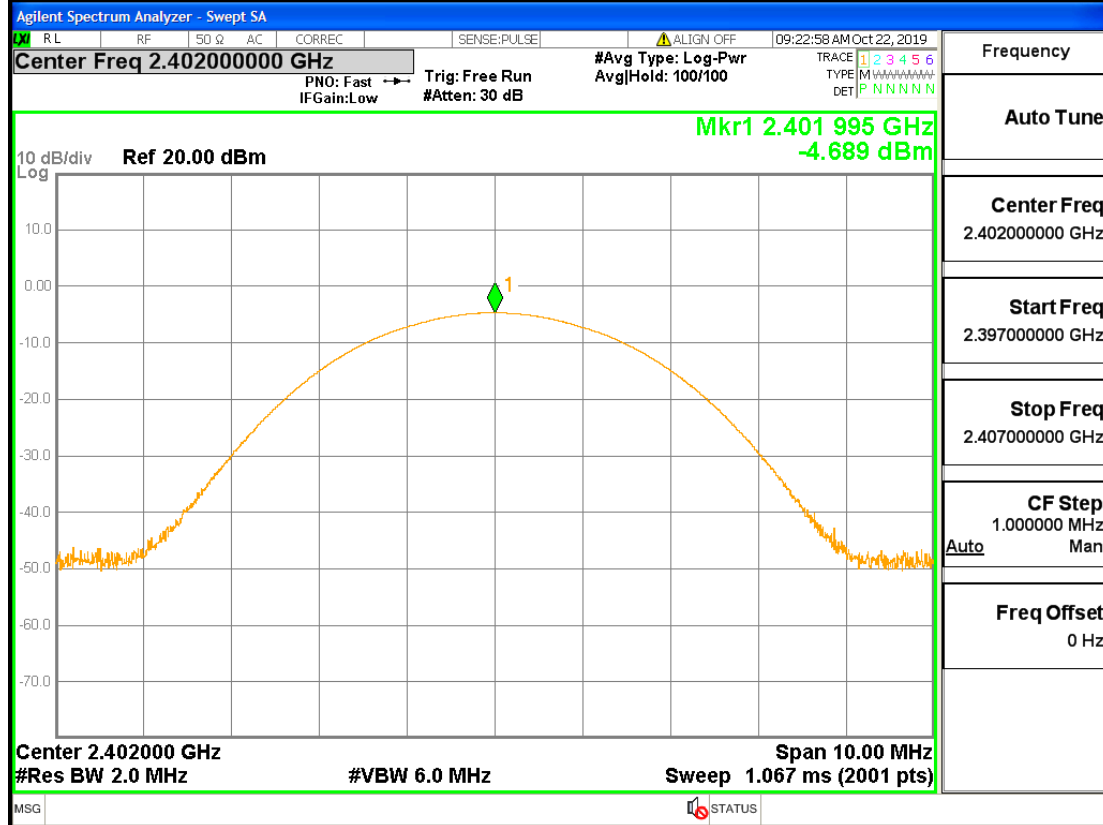
2.Occupied Bandwidth

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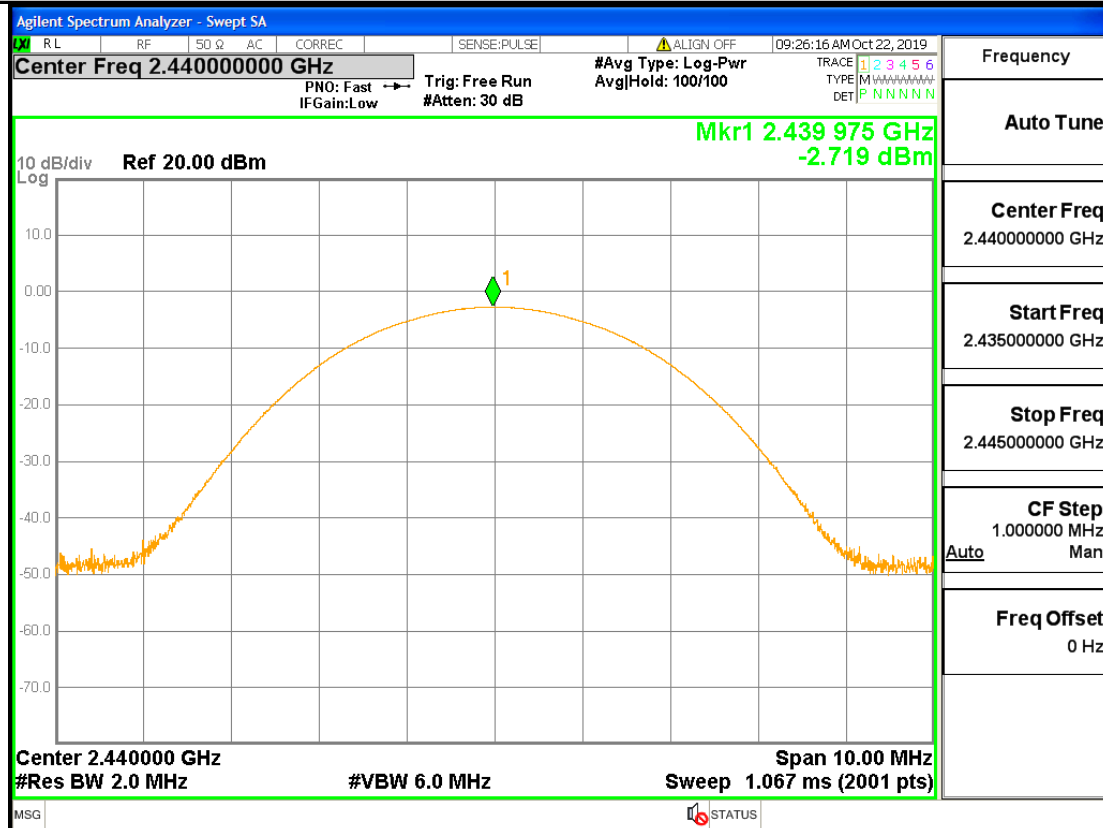
3.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-4.689	30	PASS
BLE	2440	Ant1	-2.719	30	PASS
BLE	2480	Ant1	-4.546	30	PASS

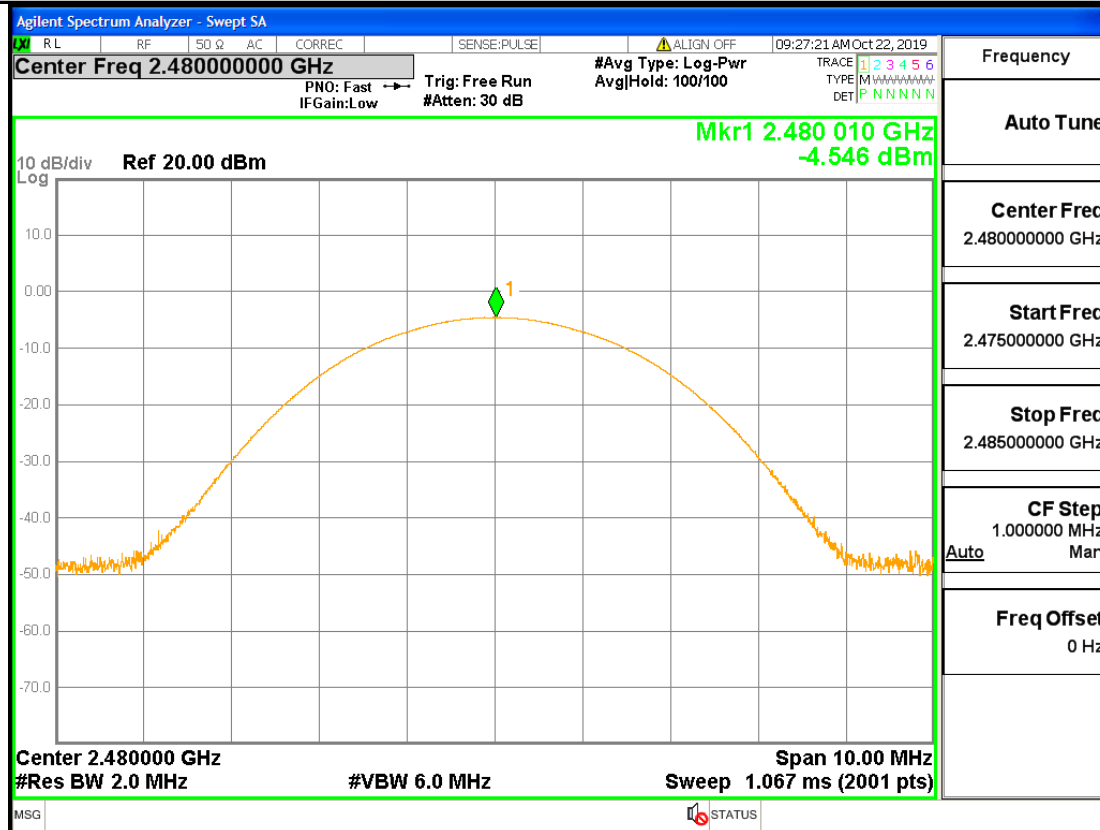
Maximum peak conducted output power_BLE_2402_Ant1



Maximum peak conducted output power_BLE_2440_Ant1



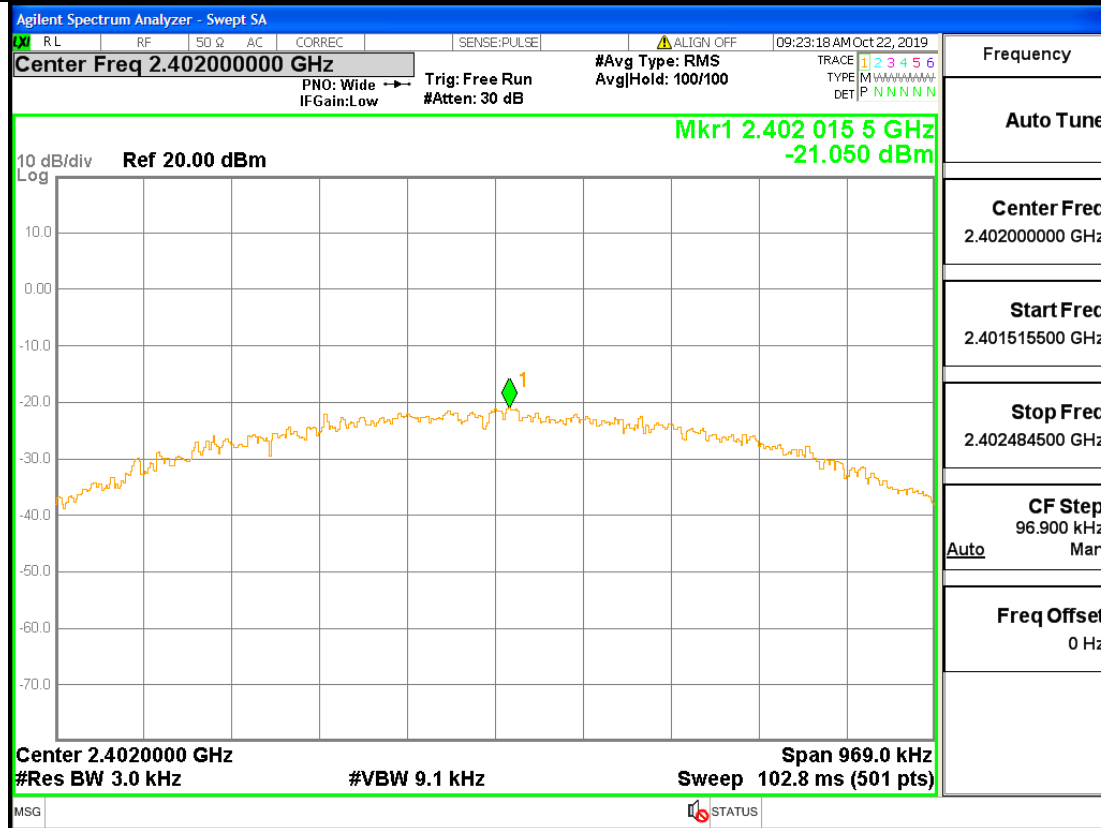
Maximum peak conducted output power_BLE_2480_Ant1



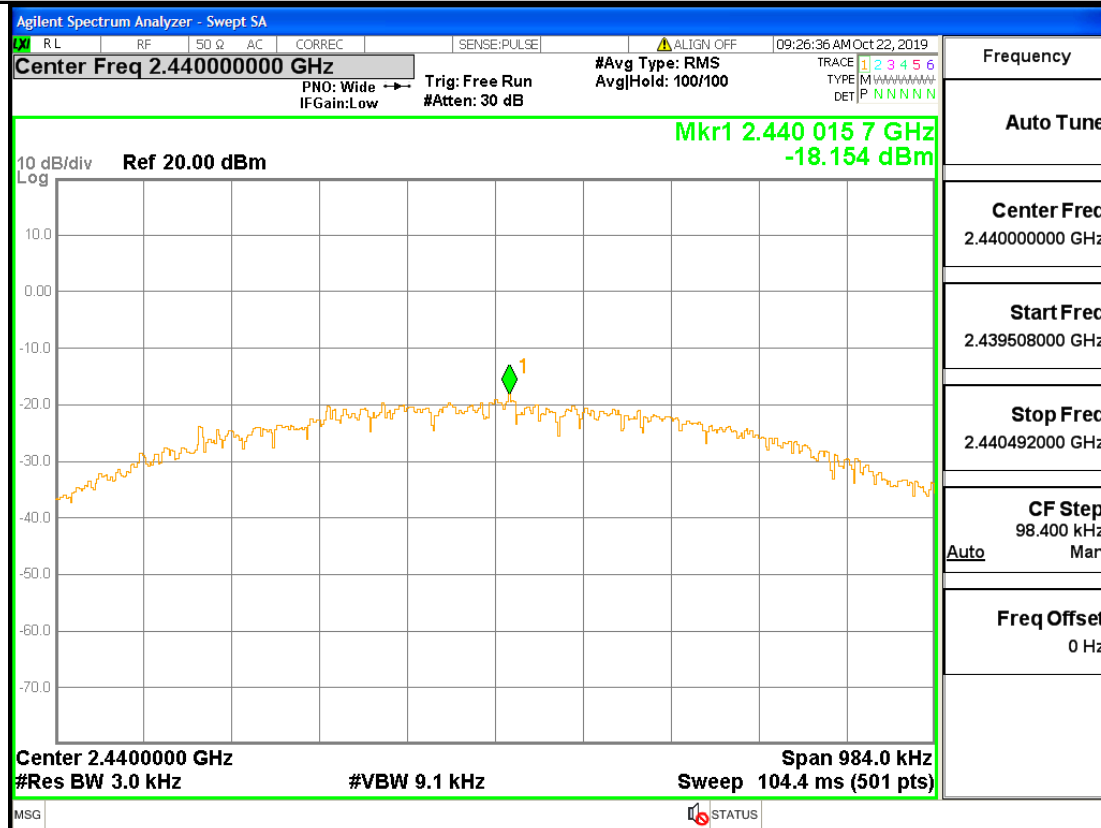
4.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-21.050	8.00	PASS
BLE	2440	Ant1	-18.154	8.00	PASS
BLE	2480	Ant1	-19.596	8.00	PASS

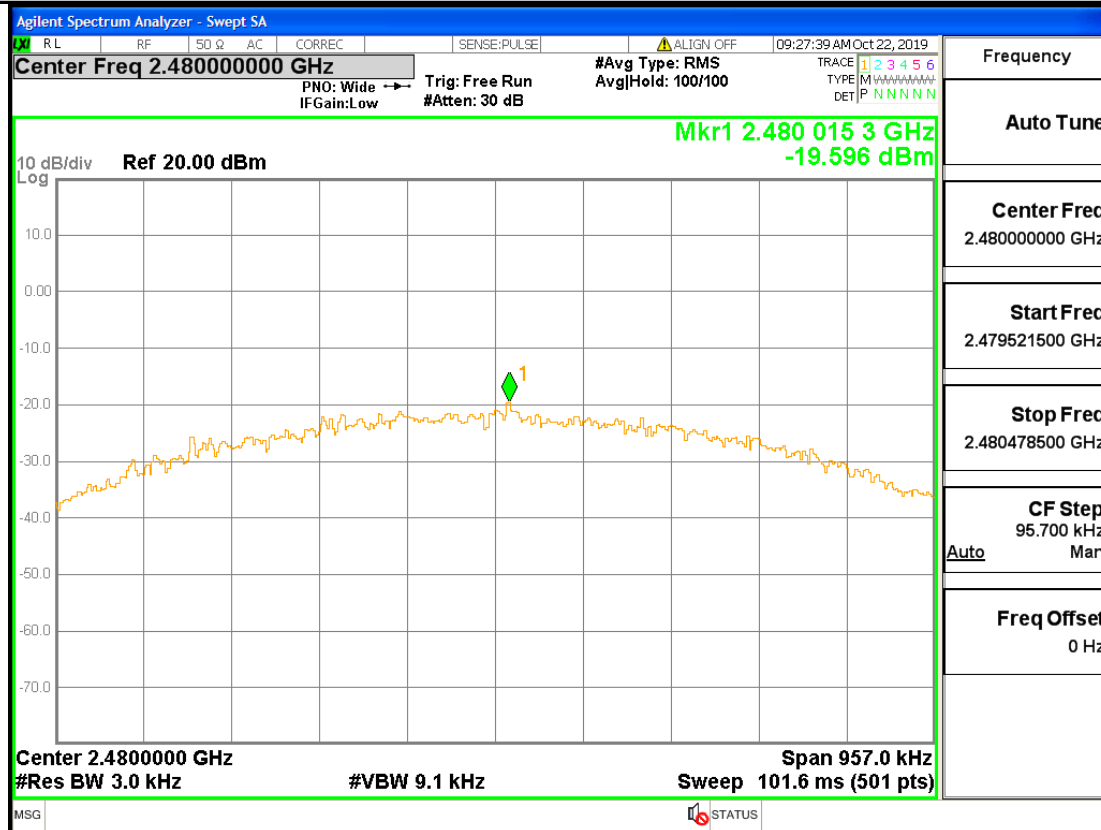
Maximum Peak power spectral density_BLE_2402_Ant1



Maximum Peak power spectral density_BLE_2440_Ant1



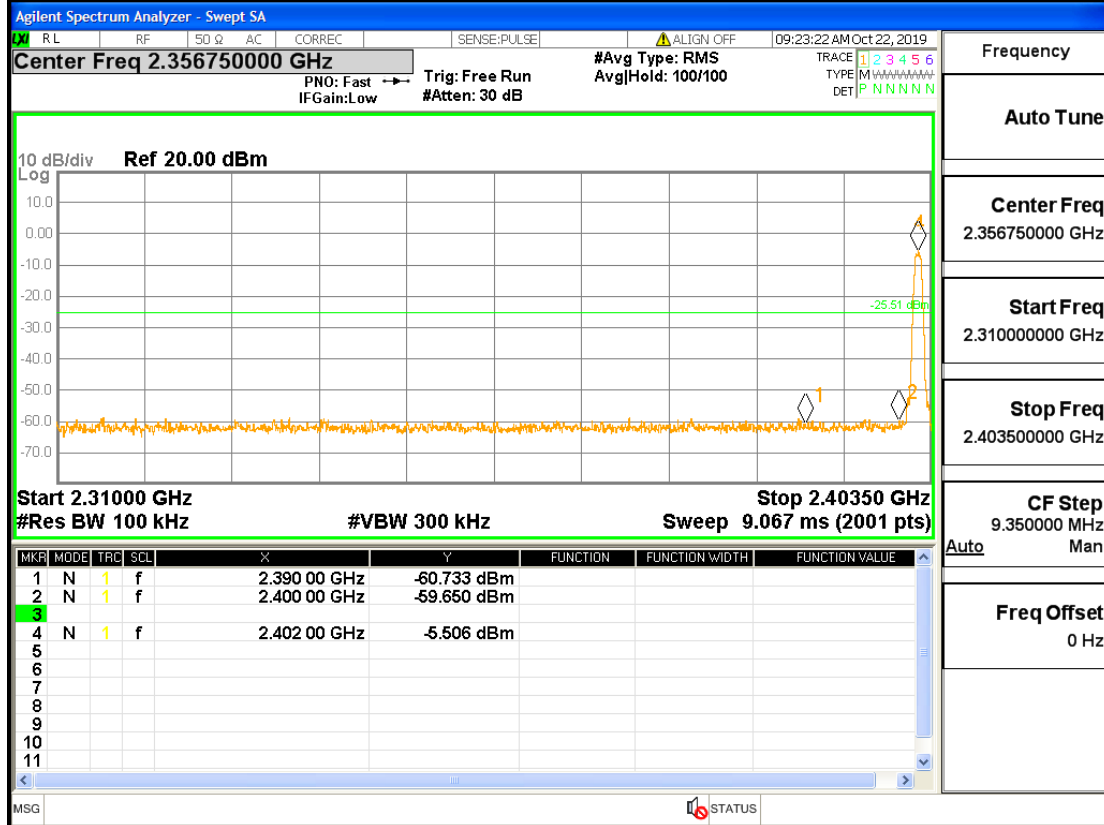
Maximum Peak power spectral density_BLE_2480_Ant1



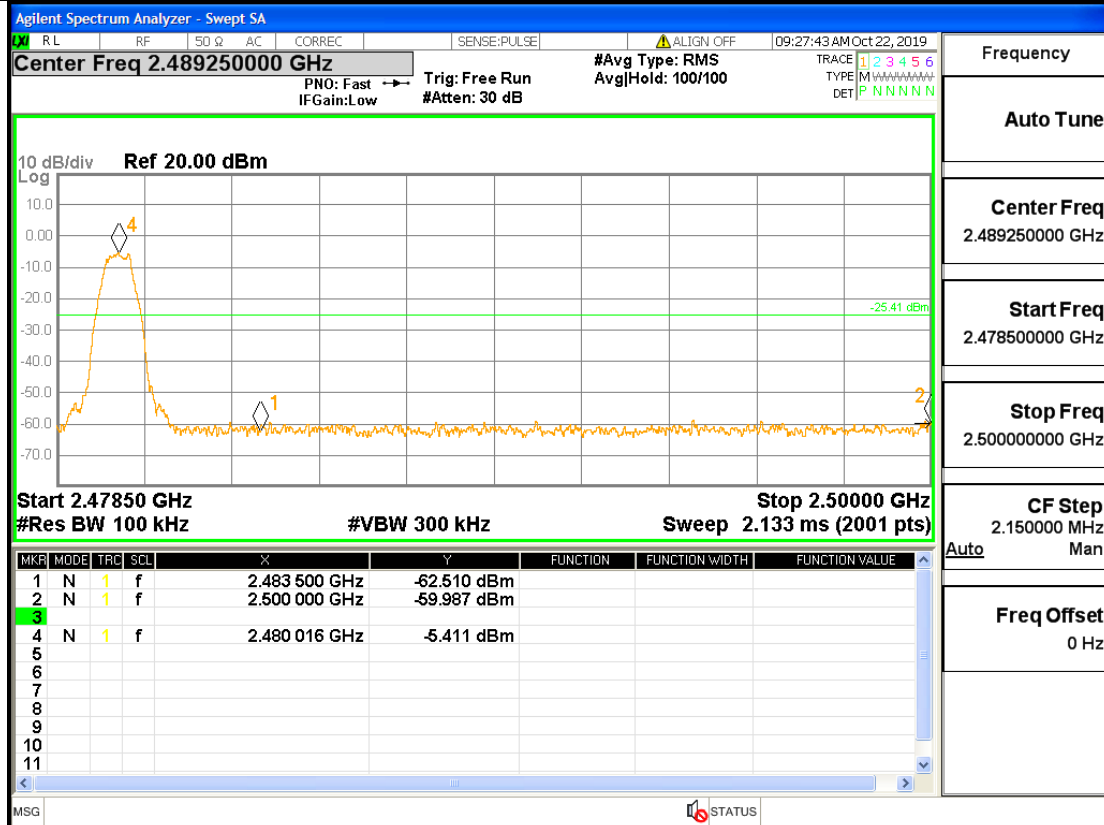
5.Band-edge for RF Conducted Emissions

Type	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion
BLE	2402	2400	-5.506	-59.65	-25.506	Pass
BLE	2480	2500	-5.411	-59.99	-25.411	Pass

Band-edge for RF Conducted Emissions_BLE_2402_Ant1

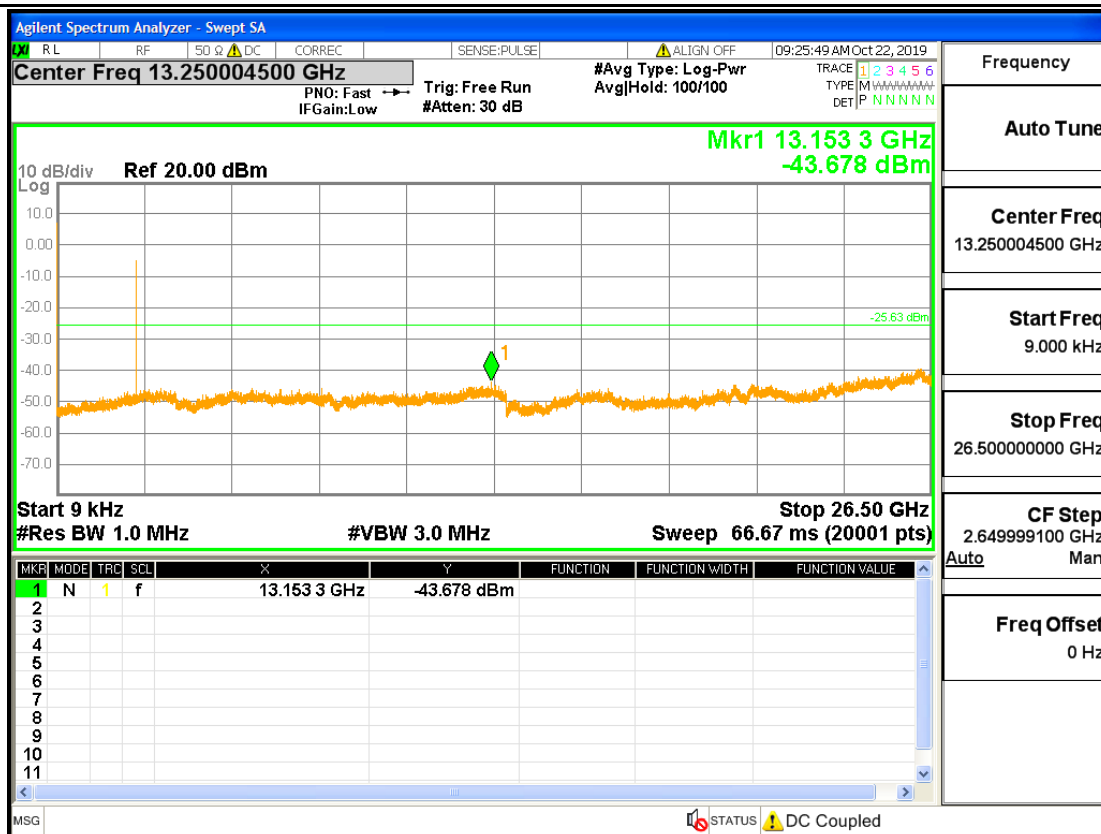
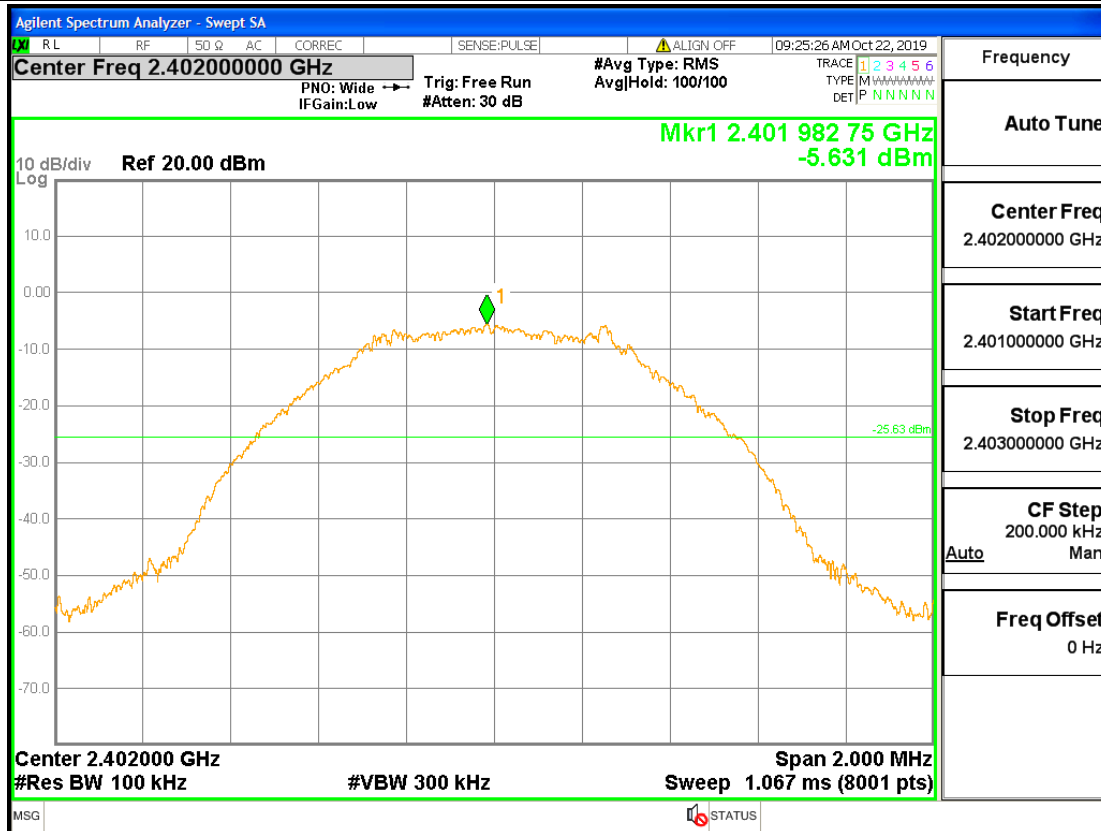


Band-edge for RF Conducted Emissions_BLE_2480_Ant1

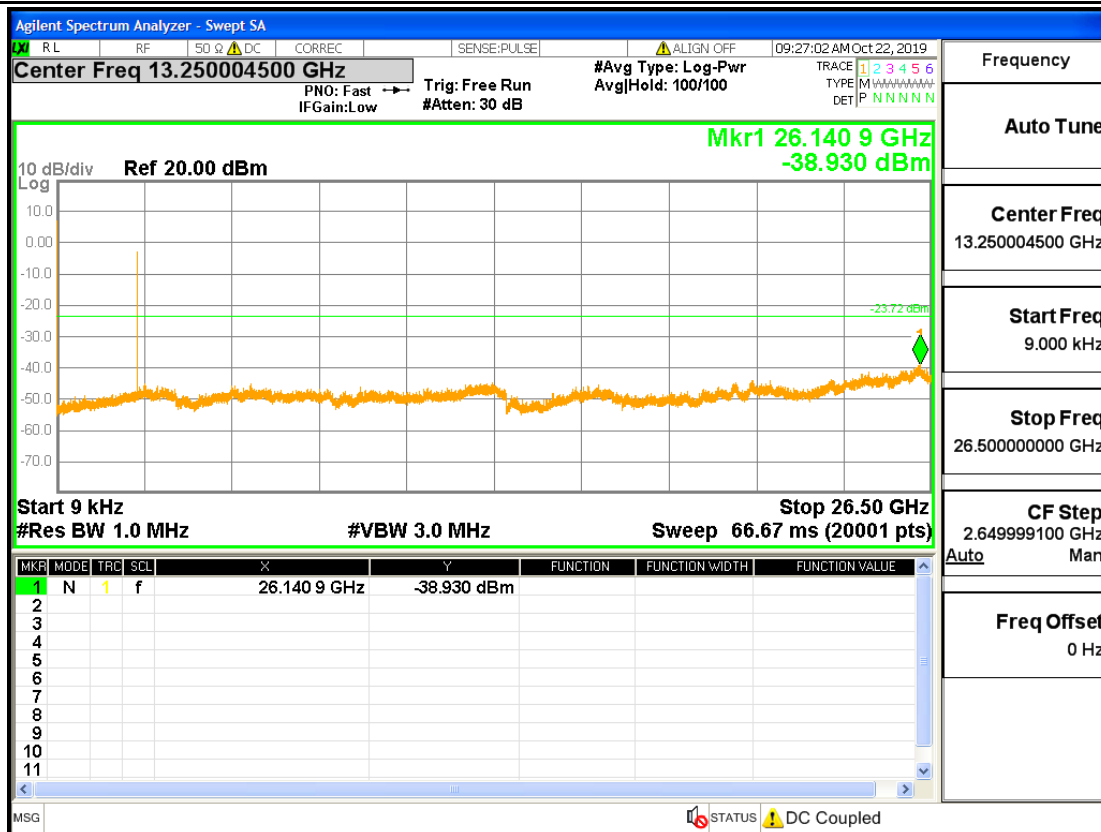
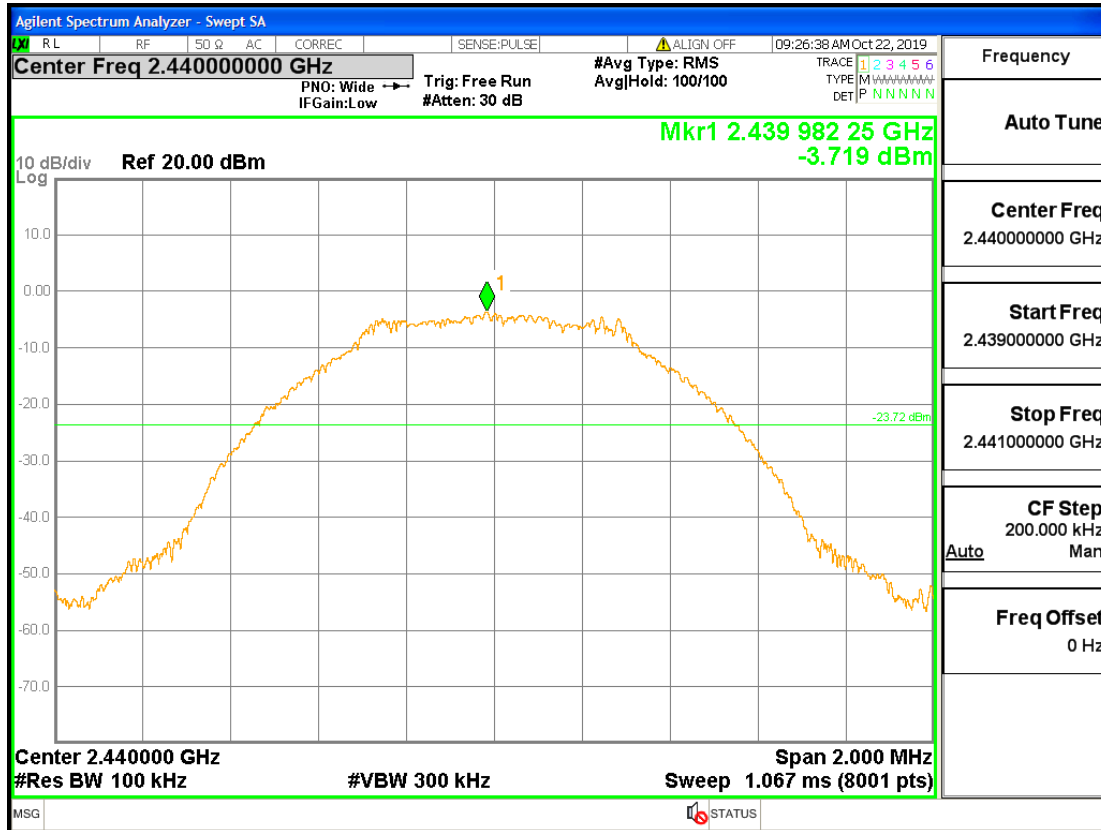


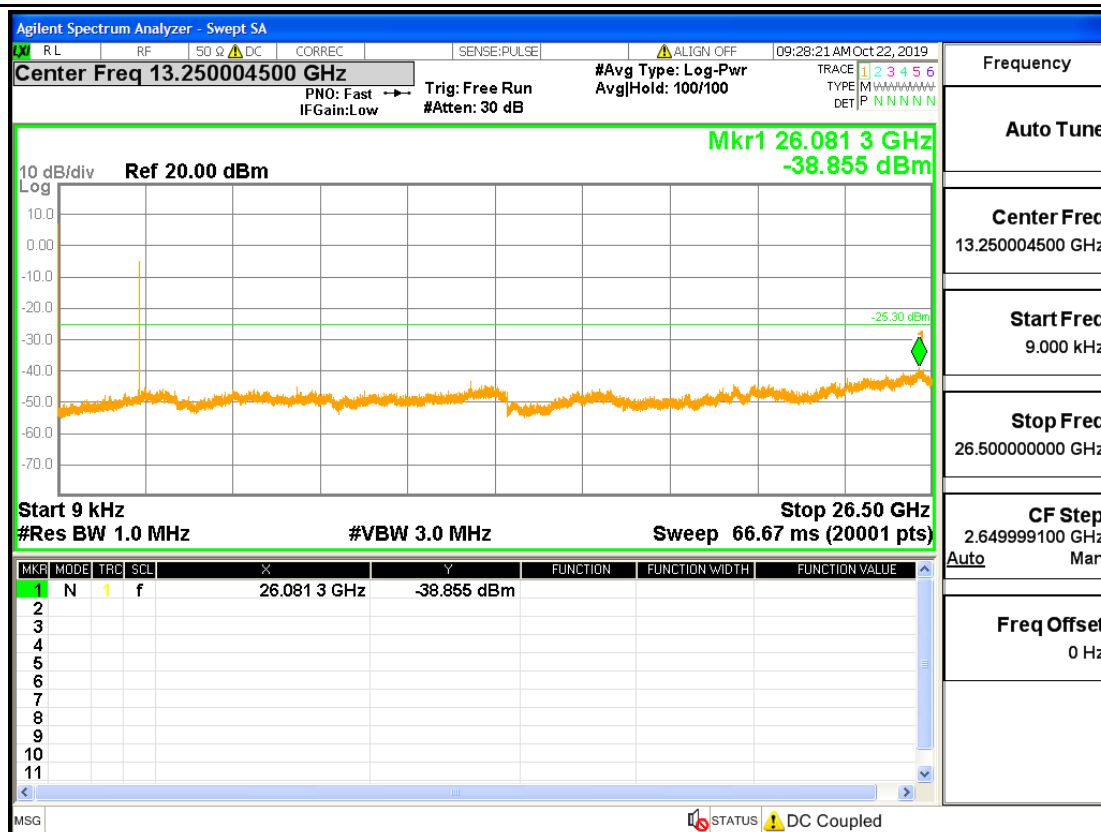
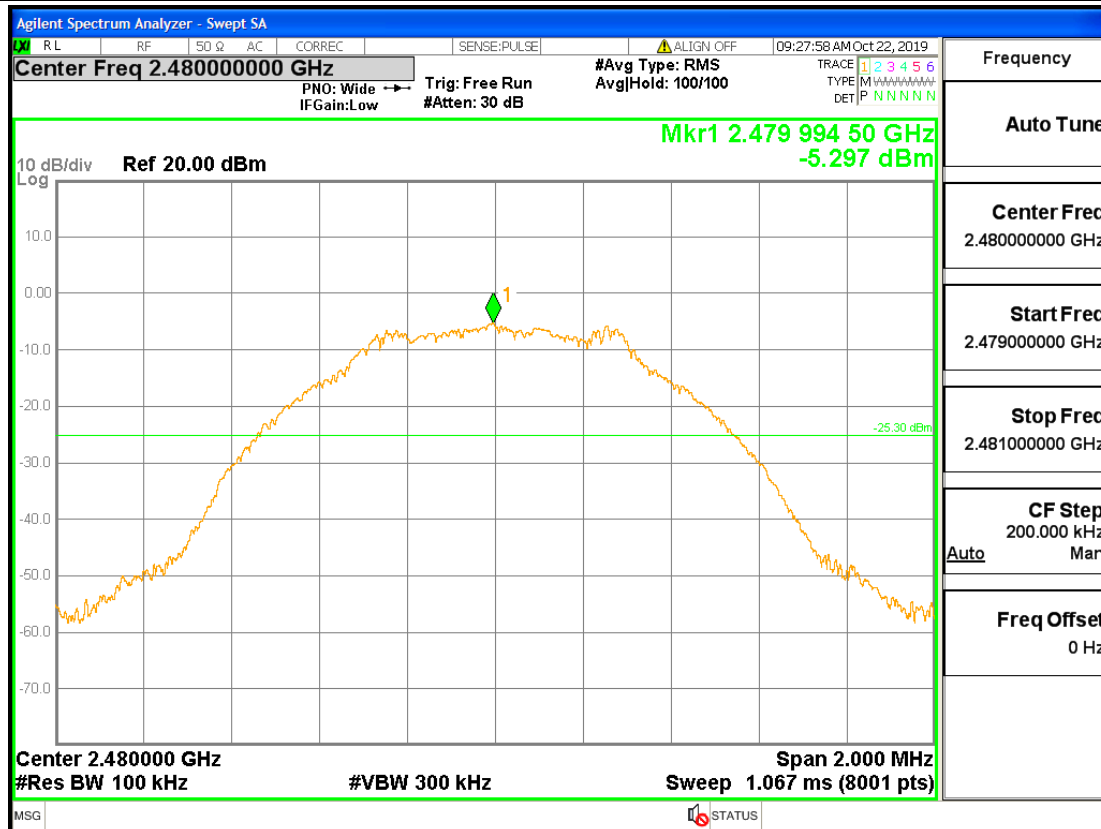
6.RF Conducted Spurious Emissions

RF Conducted Spurious Emissions_BLE_2402_Ant1



RF Conducted Spurious Emissions_BLE_2440_Ant1



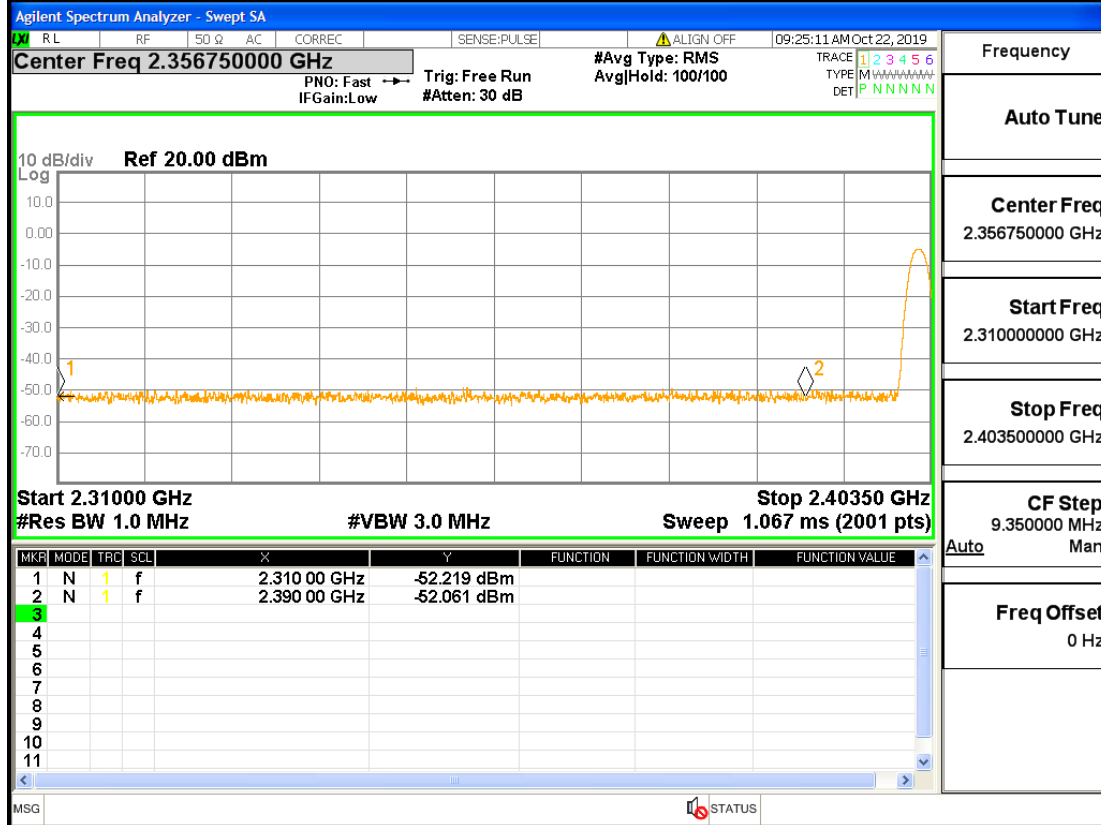


7.Restrict-band band-edge measurements

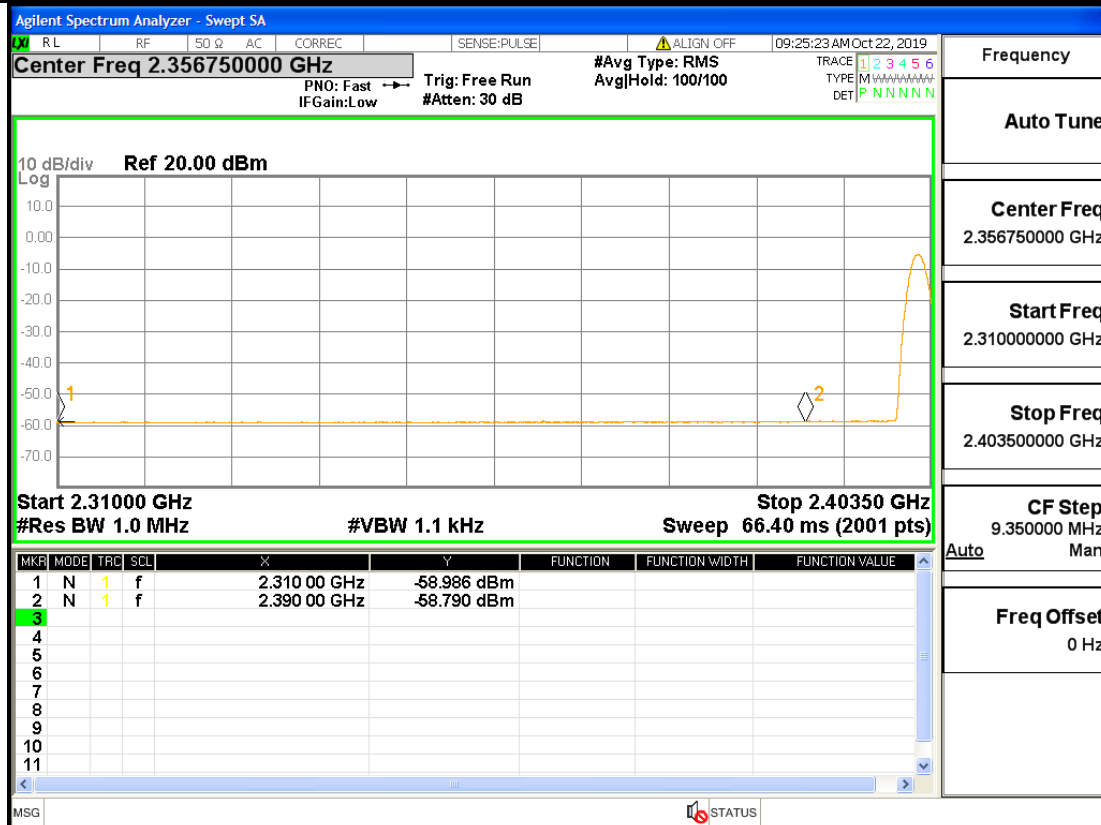
Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.00	0.00	-52.06	45.14	74	Pass
BLE	2480	2483.5	2.00	0.00	-49.81	47.39	74	Pass

Type	Carrier Frequency (MHz)	Frequency(MHz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
BLE	2402	2390	2.00	0.00	-58.79	38.41	54	Pass
BLE	2480	2483.5	2.00	0.00	-57.56	39.64	54	Pass

Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.489250000 GHz

Trig: Free Run #Atten: 30 dB

#Avg Type: RMS AvgHld: 100/100

Ref 20.00 dBm

10 dB/div Log

Start 2.47850 GHz Stop 2.50000 GHz

#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (2001 pts)

MKRF	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.483 500 GHz	-49.813 dBm			
2	N	1	f	2.500 000 GHz	-51.385 dBm			

Frequency

Auto Tune

Center Freq 2.489250000 GHz

Start Freq 2.478500000 GHz

Stop Freq 2.500000000 GHz

CF Step 2.150000 MHz

Freq Offset 0 Hz

Restrict-band band-edge measurements_BLE_2480_Ant1_AV

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.489250000 GHz

Trig: Free Run #Atten: 30 dB

#Avg Type: RMS AvgHld: 100/100

Ref 20.00 dBm

10 dB/div Log

Start 2.47850 GHz Stop 2.50000 GHz

#Res BW 1.0 MHz #VBW 1.1 kHz Sweep 15.33 ms (2001 pts)

MKRF	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.483 500 GHz	-57.555 dBm			
2	N	1	f	2.500 000 GHz	-58.241 dBm			

Frequency

Auto Tune

Center Freq 2.489250000 GHz

Start Freq 2.478500000 GHz

Stop Freq 2.500000000 GHz

CF Step 2.150000 MHz

Freq Offset 0 Hz

8.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BLE	2402	Ant1	75.99	PASS

Duty Cycle_BLE_2402_Ant1

