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(RTL8720DN) BLE Data plots

Figure 31: 6dB Bandwidth, 2402MHz, BLE-1Mbps



Figure 32: 6dB Bandwidth, 2440MHz, BLE-1Mbps



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Figure 33: 6dB Bandwidth, 2480MHz, BLE-1Mbps



Figure 34: 6dB Bandwidth, 2402MHz, BLE-2Mbps



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Figure 35: 6dB Bandwidth, 2440MHz, BLE-2Mbps



Figure 36: 6dB Bandwidth, 2480MHz, BLE-2Mbps



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4.1.4 Maximum conducted output power spectral density

RESULT:

PASS

Test standard : FCC Part 15.247(e)

Requirement : ANSI C63.10-2013 clause 11.10.2,
KDB 558074 D01 v05r02, Clause 8.4

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 21.2°C

Relative humidity : 50%

Table 7: Maximum conducted output power spectral density_(CC2642R1F) BLE1

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1Mbps	2402	-16.95	8
	2440	-14.86	
	2480	-17.93	
BLE-2Mbps	2402	-19.80	
	2440	-20.04	
	2480	-19.48	

Table 8: Maximum conducted output power spectral density_(CC2642R1F) BLE2

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1Mbps	2402	-14.96	8
	2440	-15.14	
	2480	-15.06	
BLE-2Mbps	2402	-17.23	
	2440	-17.49	
	2480	-17.77	

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Table 9: Maximum conducted output power spectral density_(RTL8720DN) BLE

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
BLE-1Mbps	2402	-11.97	8
	2440	-11.58	
	2480	-10.50	
BLE-2Mbps	2402	-14.05	
	2440	-13.13	
	2480	-13.39	

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(CC2642R1F) BLE1 Data plots

Figure 37: Power Spectral Density, 2402MHz, BLE-1Mbps

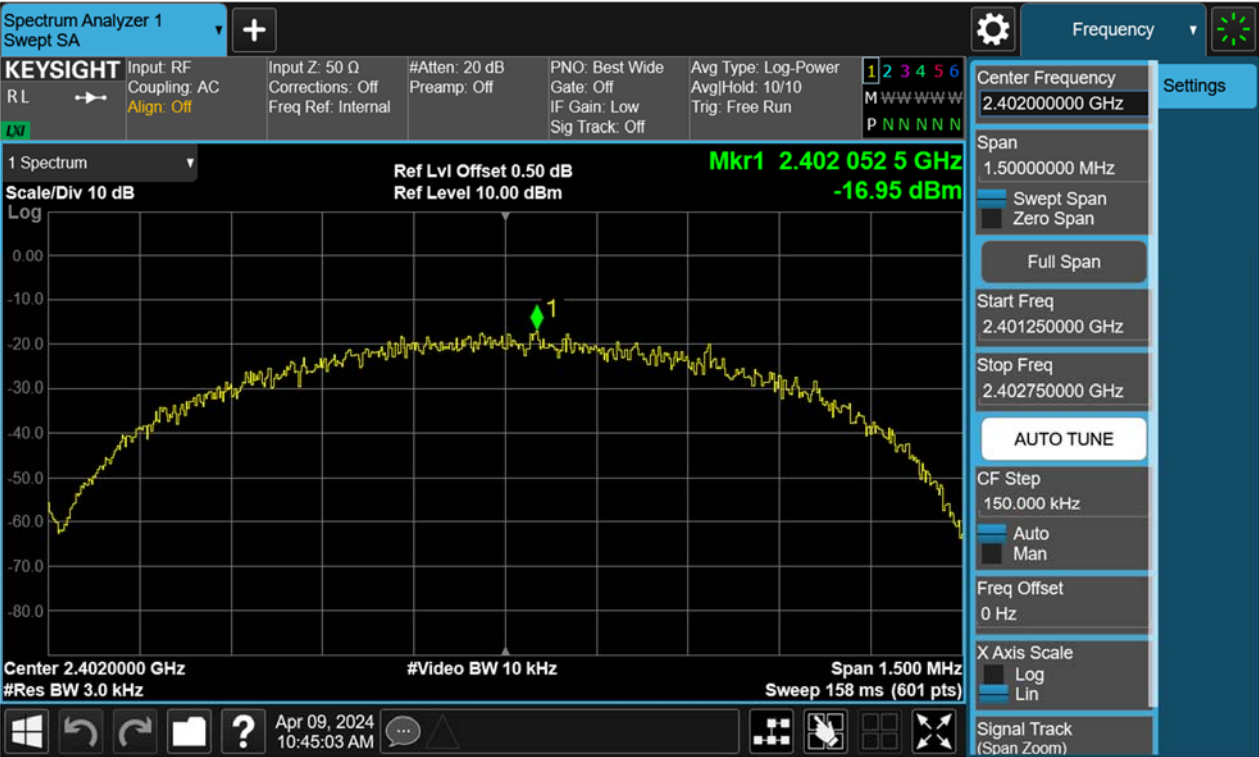


Figure 38: Power Spectral Density, 2440MHz, BLE-1Mbps



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Figure 39: Power Spectral Density, 2480MHz, BLE-1Mbps

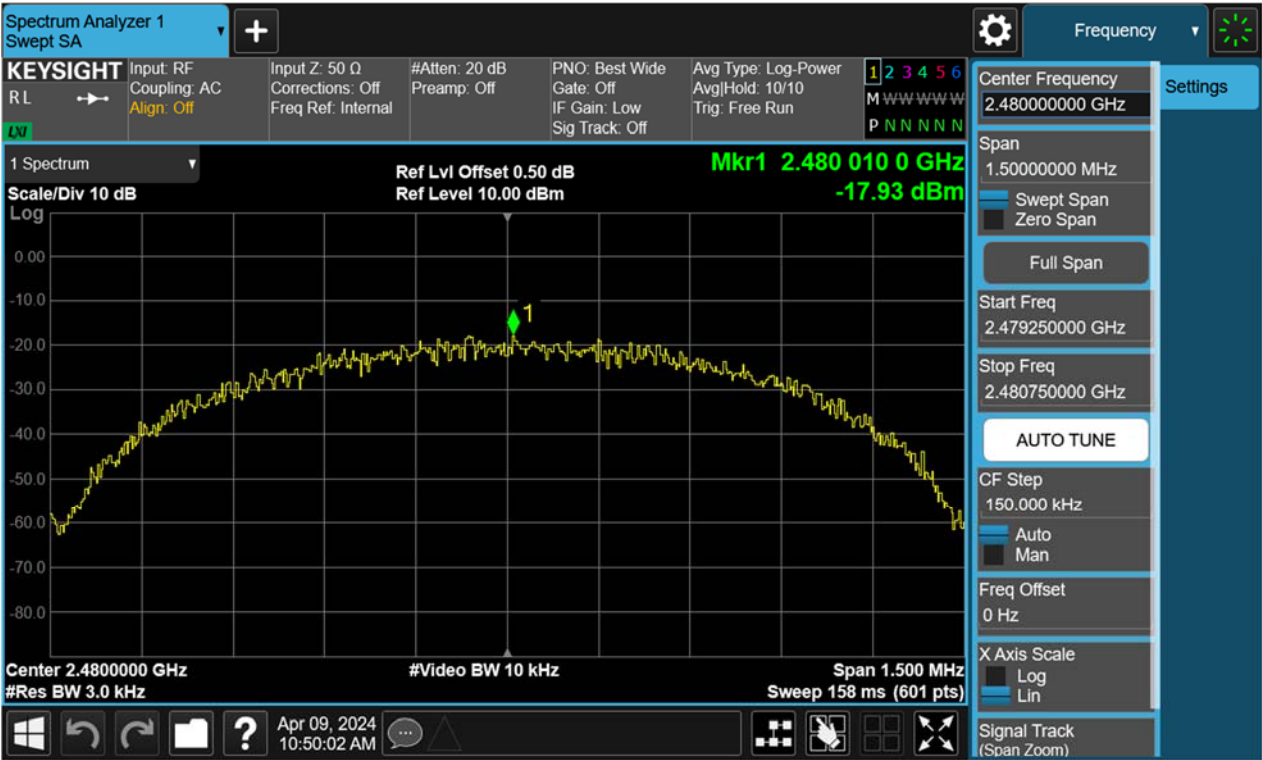


Figure 40: Power Spectral Density, 2402MHz, BLE-2Mbps



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Figure 41: Power Spectral Density, 2440MHz, BLE-2Mbps

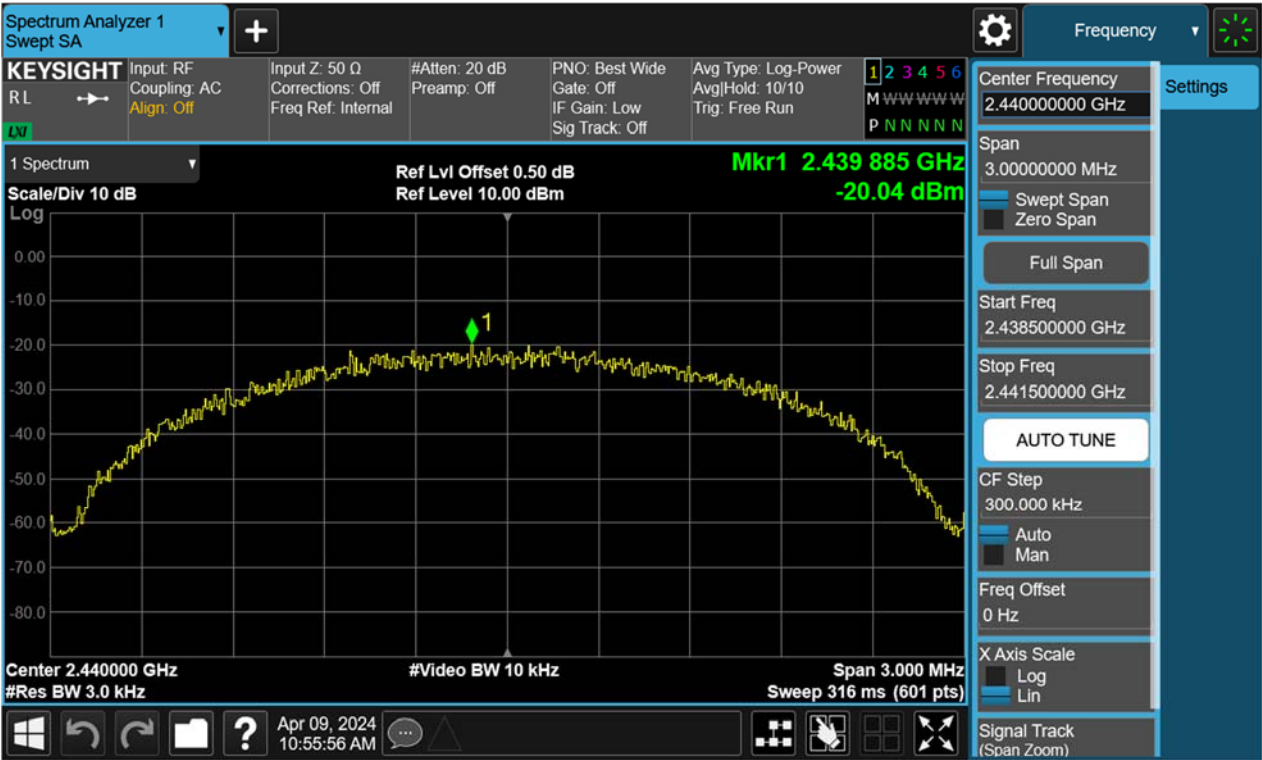


Figure 42: Power Spectral Density, 2480MHz, BLE-2Mbps



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(CC2642R1F) BLE2 Data plots

Figure 43: Power Spectral Density, 2402MHz, BLE-1Mbps

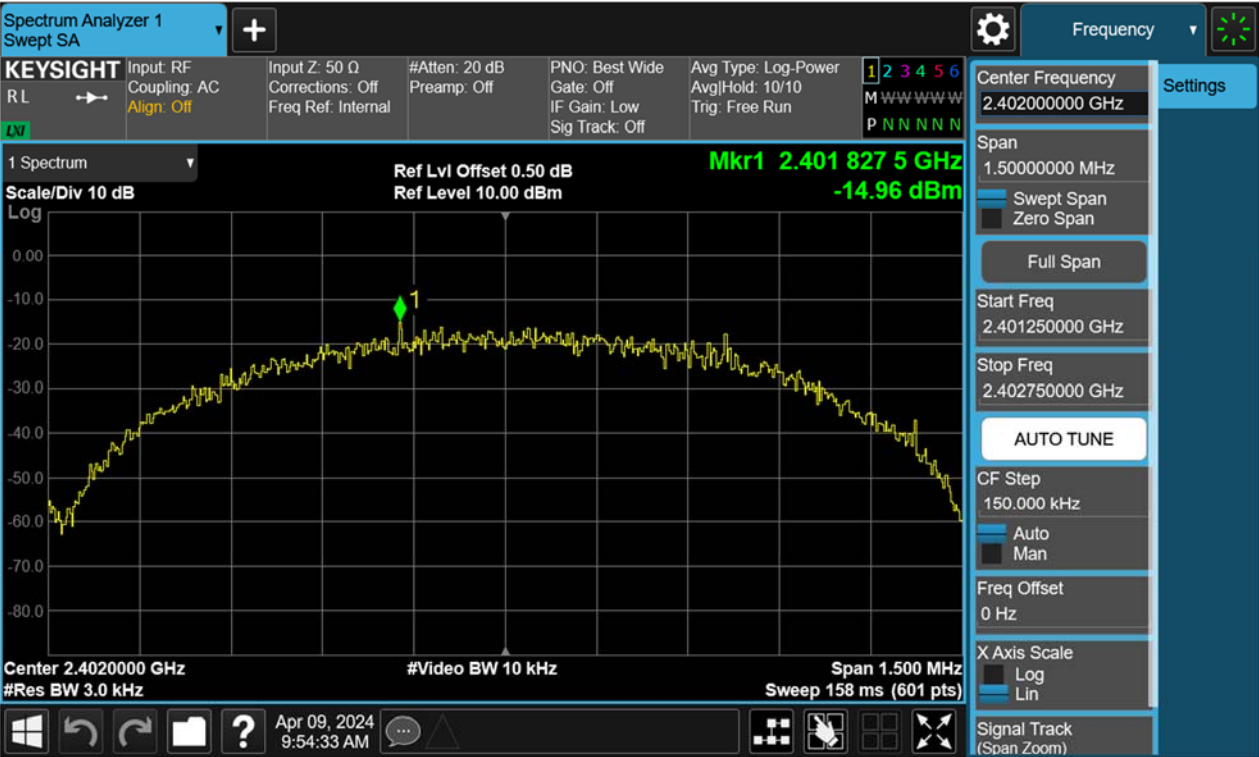
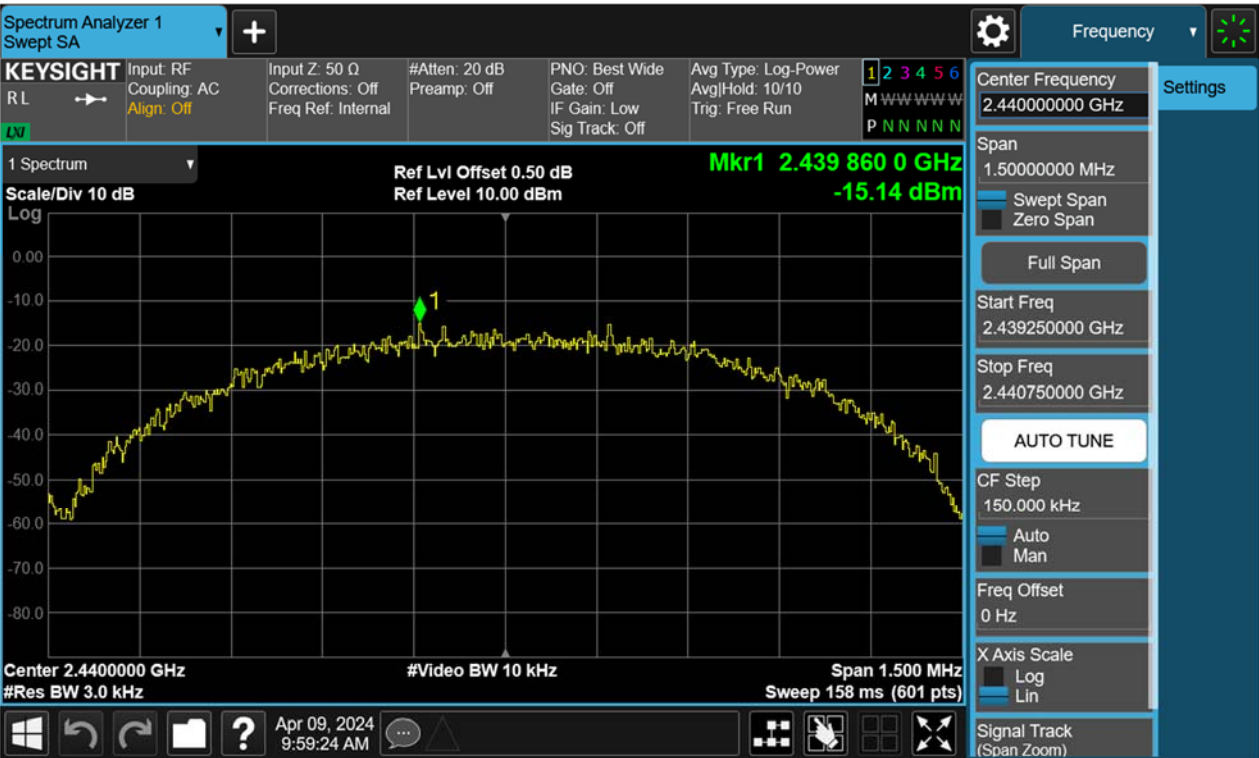


Figure 44: Power Spectral Density, 2440MHz, BLE-1Mbps



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Figure 45: Power Spectral Density, 2480MHz, BLE-1Mbps



Figure 46: Power Spectral Density, 2402MHz, BLE-2Mbps



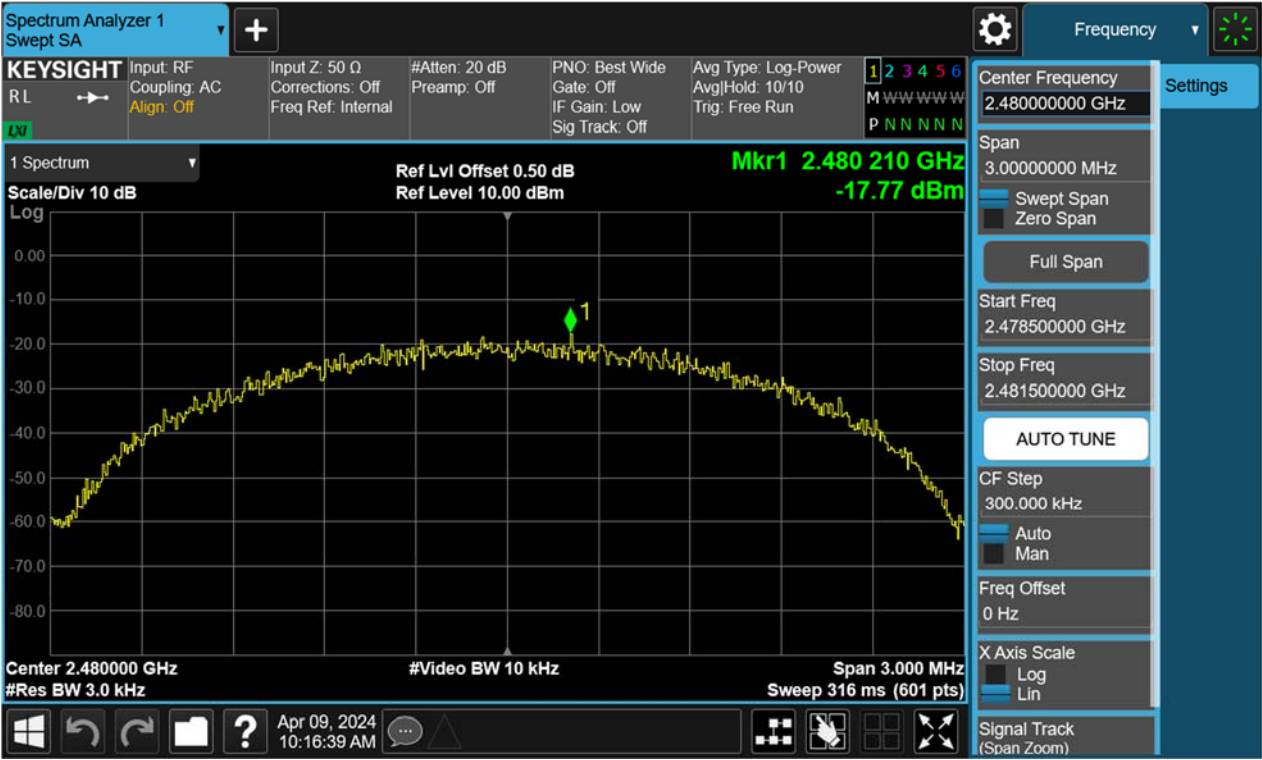
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Figure 47: Power Spectral Density, 2440MHz, BLE-2Mbps



Figure 48: Power Spectral Density, 2480MHz, BLE-2Mbps



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(RTL8720DN) BLE Data plots

Figure 49: Power Spectral Density, 2402MHz, BLE-1Mbps



Figure 50: Power Spectral Density, 2440MHz, BLE-1Mbps



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Figure 51: Power Spectral Density, 2480MHz, BLE-1Mbps



Figure 52: Power Spectral Density, 2402MHz, BLE-2Mbps



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Figure 53: Power Spectral Density, 2440MHz, BLE-2Mbps



Figure 54: Power Spectral Density, 2480MHz, BLE-2Mbps



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT: PASS

Test standard : FCC Part 15.247(d)
Requirement : ANSI C63.10-2013, Clause 11.11.1(a)
KDB 558074 D01 v05r02, Clause 8.5
Kind of test site : Shielded room

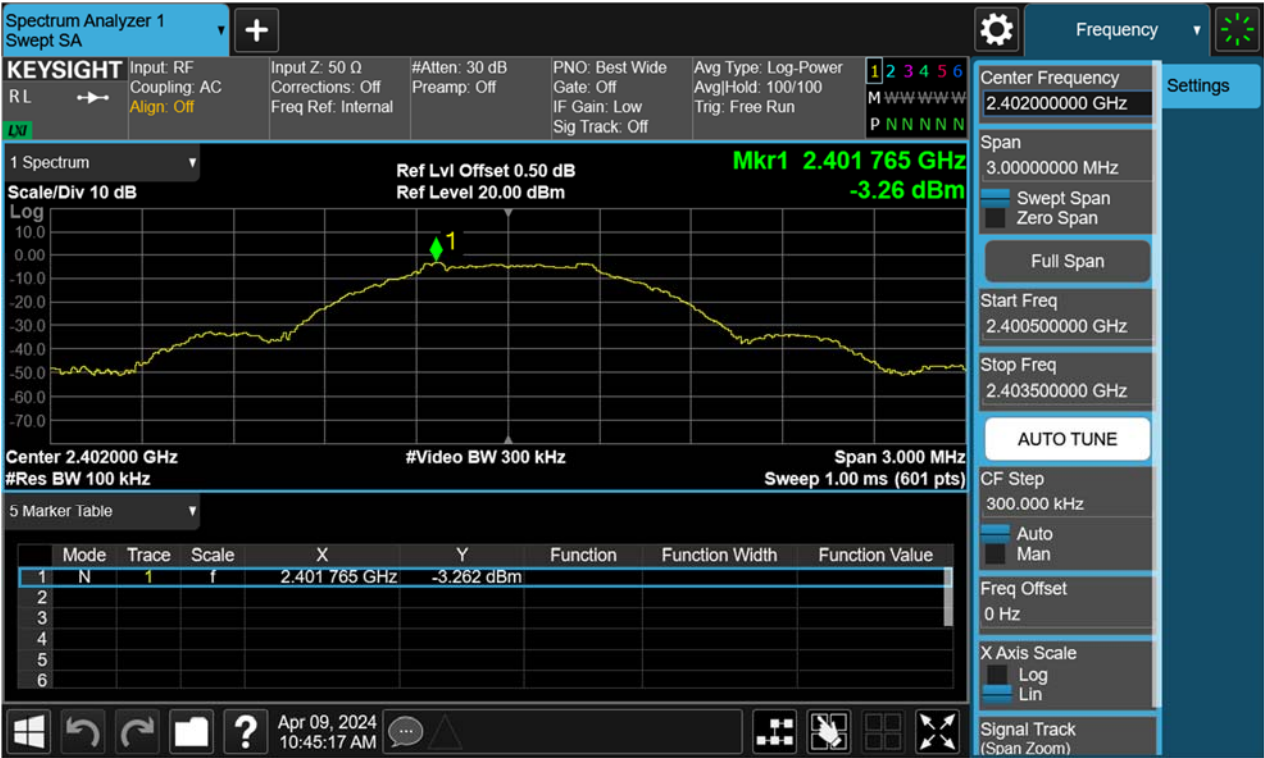
Test setup

Test Channel : Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode : A.1.a
Ambient temperature : 21.2°C
Relative humidity : 50%

For details refer to following test plot.

(CC2642R1F) BLE1 Data plots

Figure 55: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE-1Mbps Carrier Level



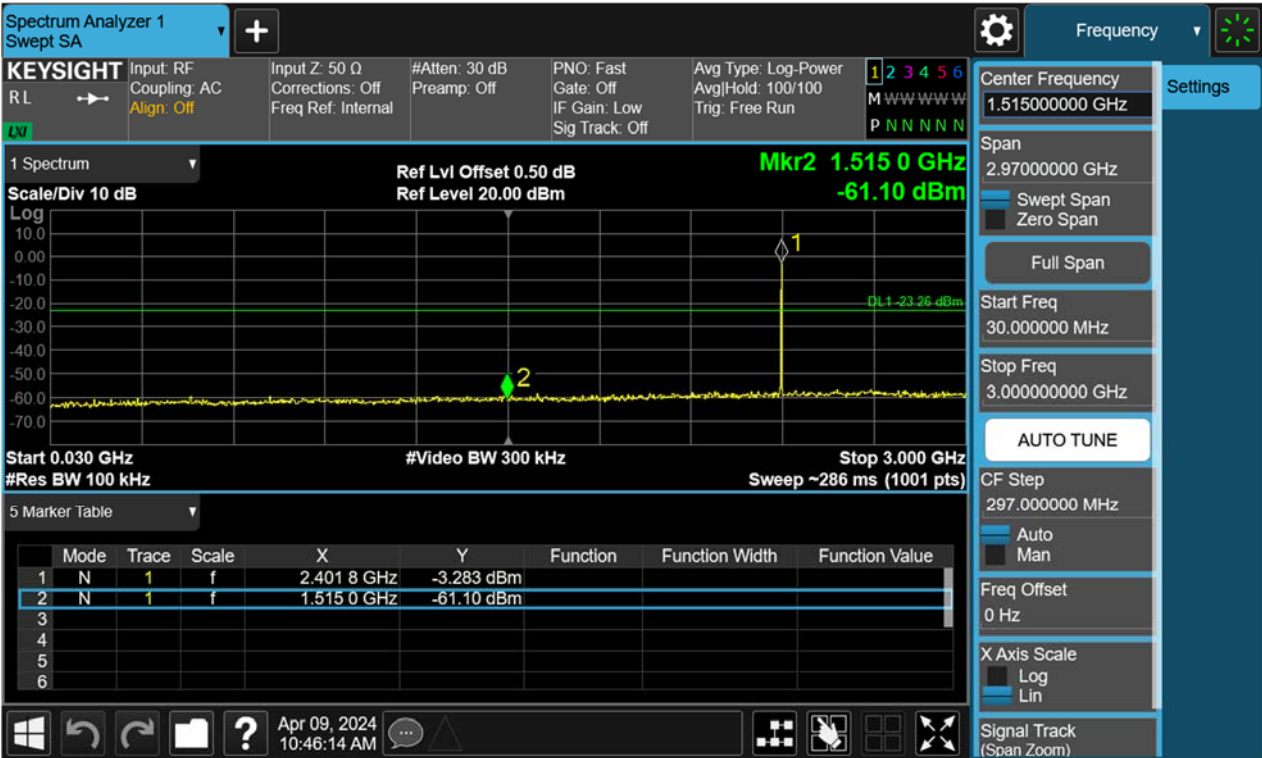
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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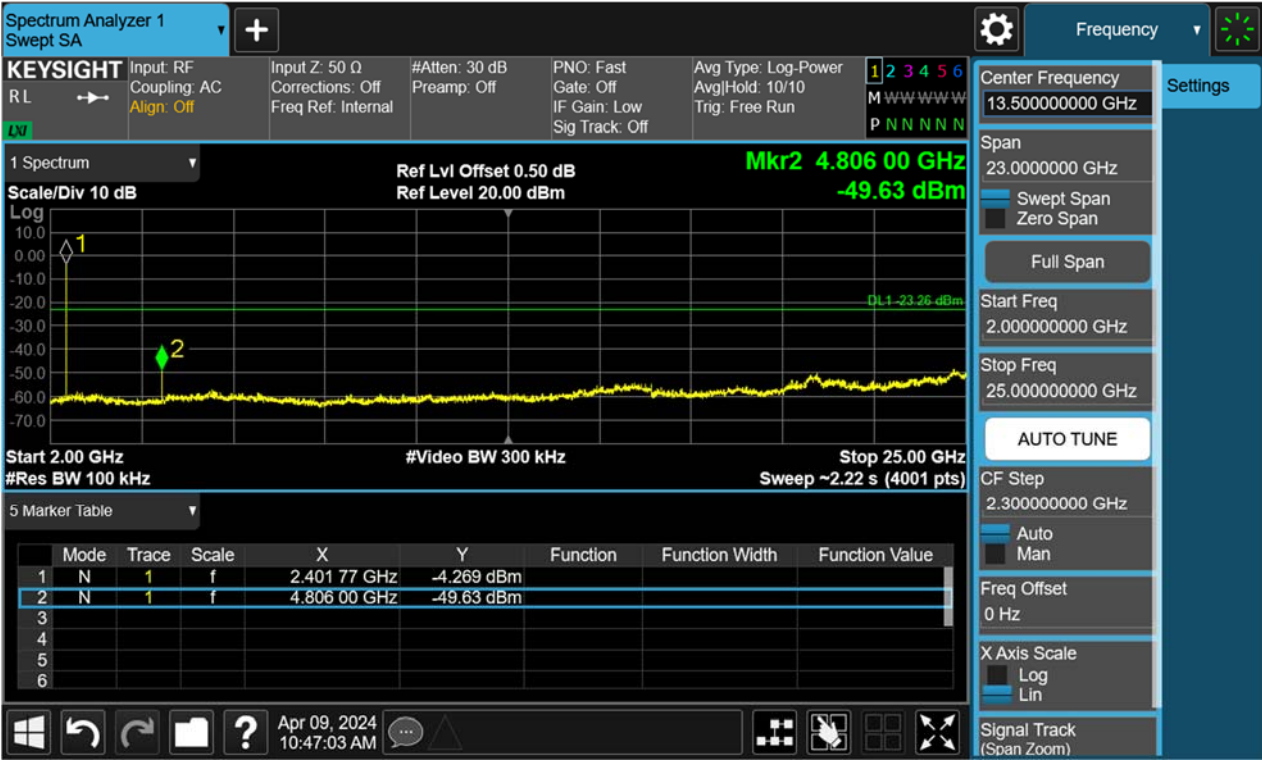
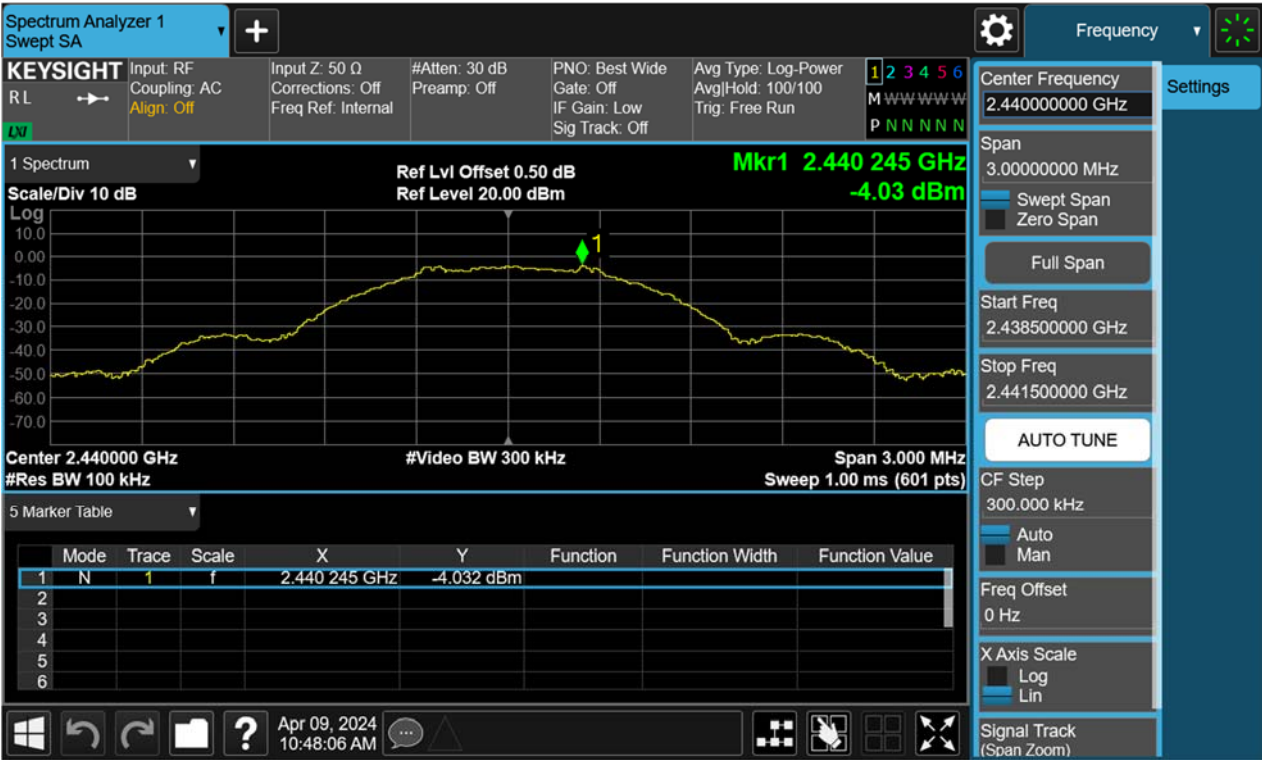


Figure 56: Conducted Spurious Emission & Authorized-band band-edge, 2440MHz, BLE-1Mbps Carrier Level



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Conducted spurious emissions 30MHz-25GHz

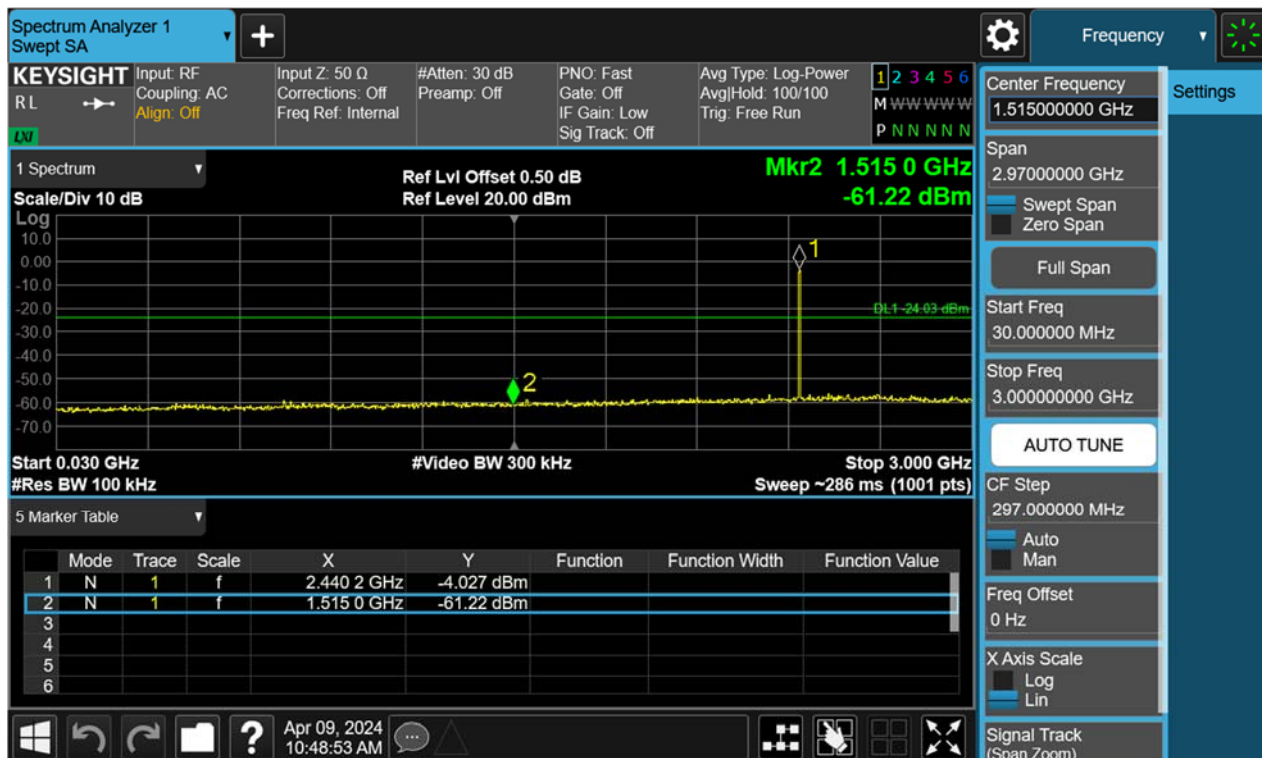


Figure 57: Conducted Spurious Emission & Authorized-band band-edge, 2480MHz, BLE-1Mbps Carrier Level



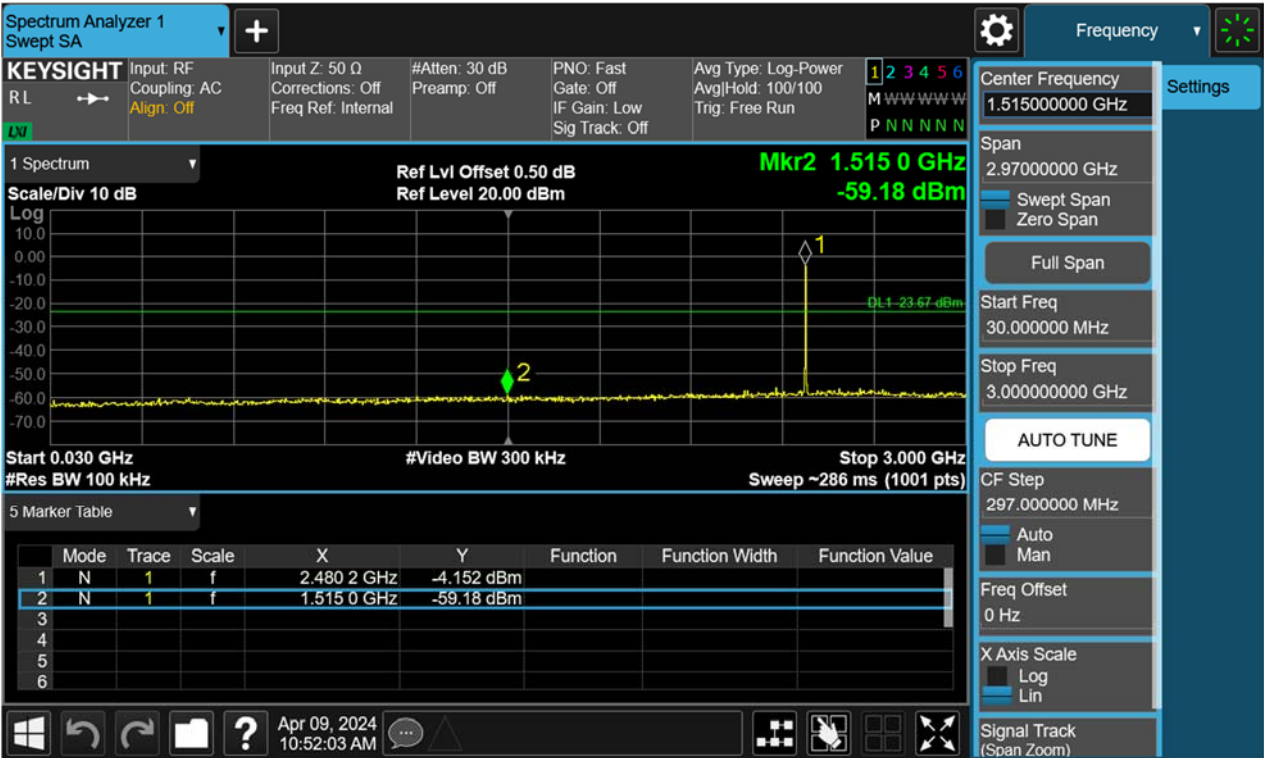
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 58: Conducted Spurious Emission & Authorized-band band-edge, 2402MHz, BLE-2Mbps Carrier Level

