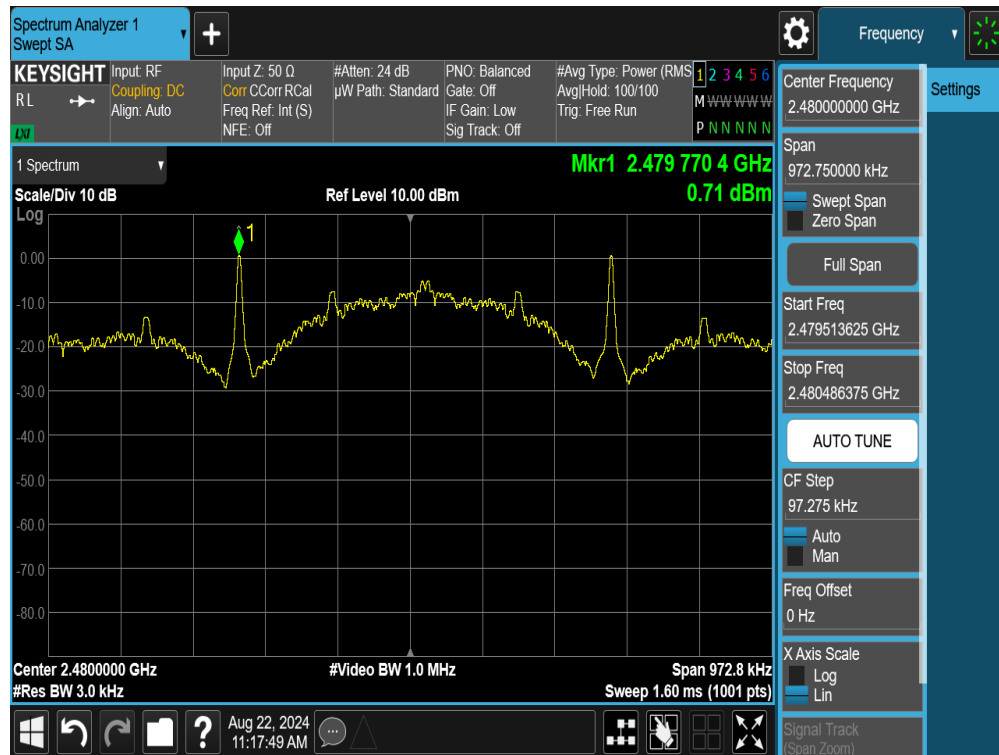
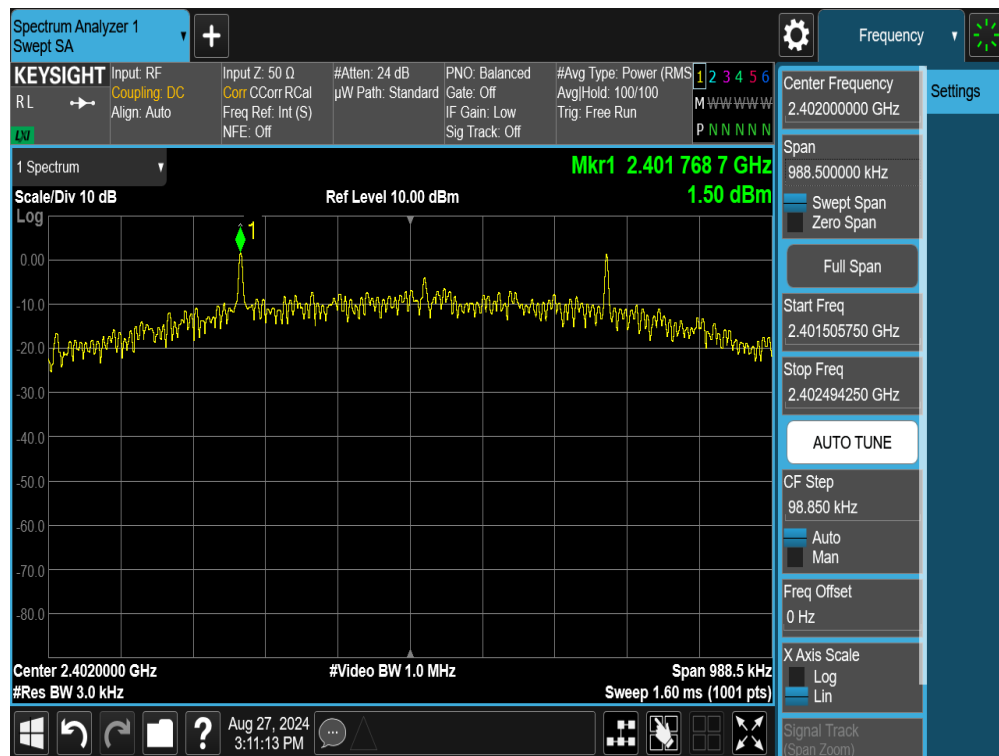


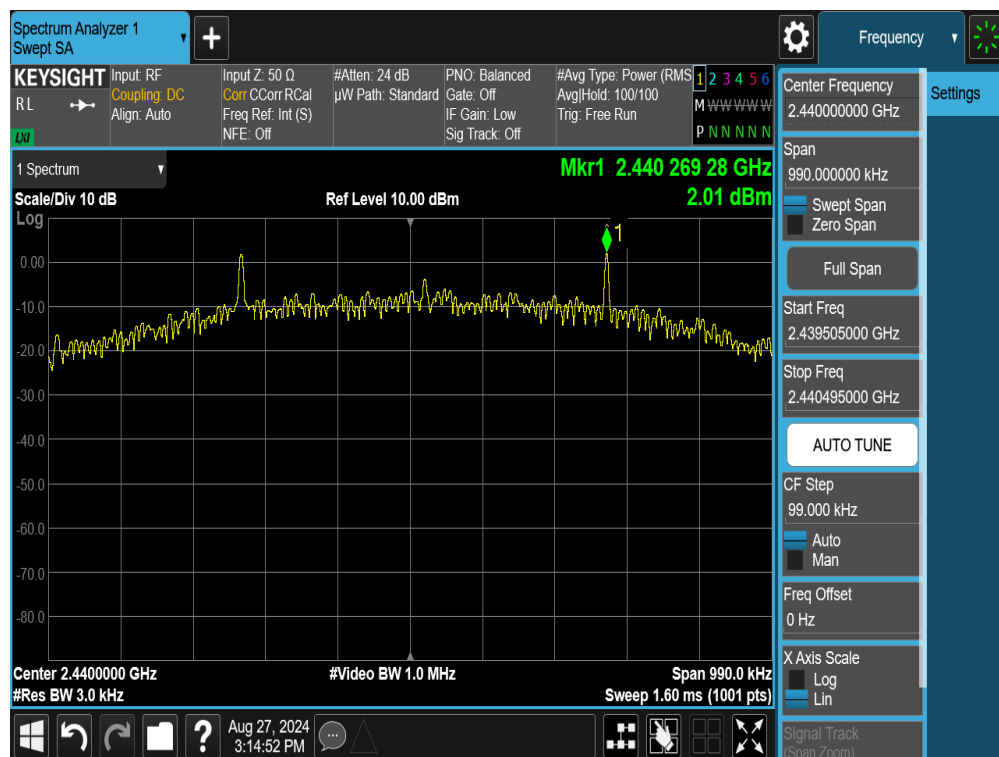


Plot 7-63. Power Spectral Density Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant1

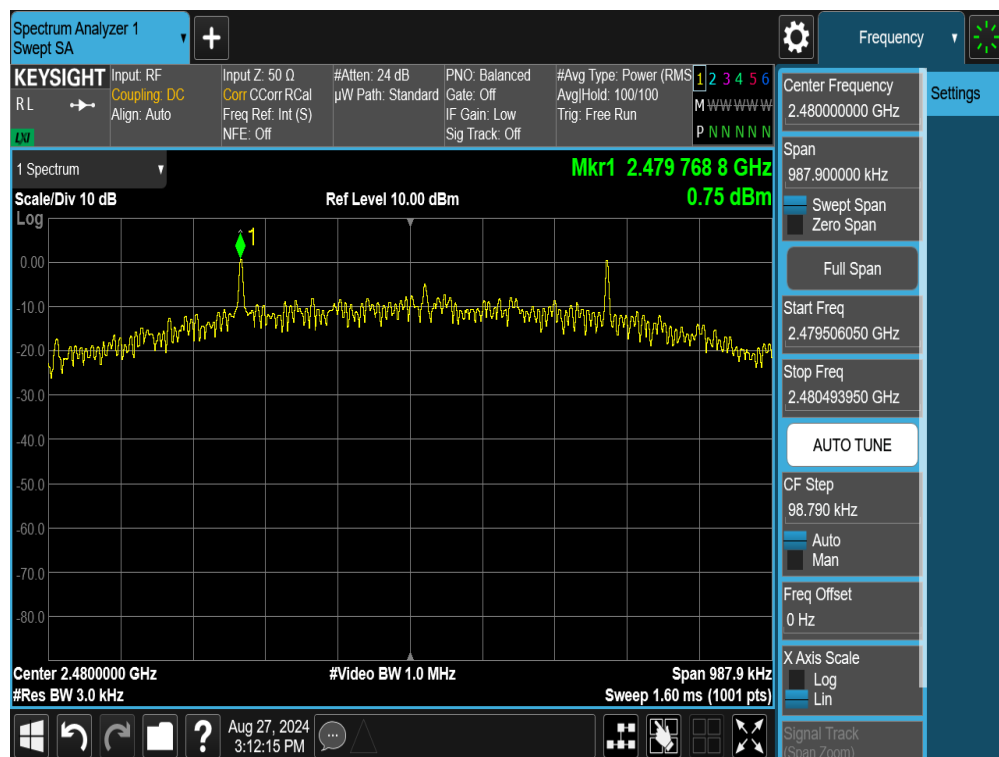


Plot 7-64. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 0) – Ant1

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 54 of 114

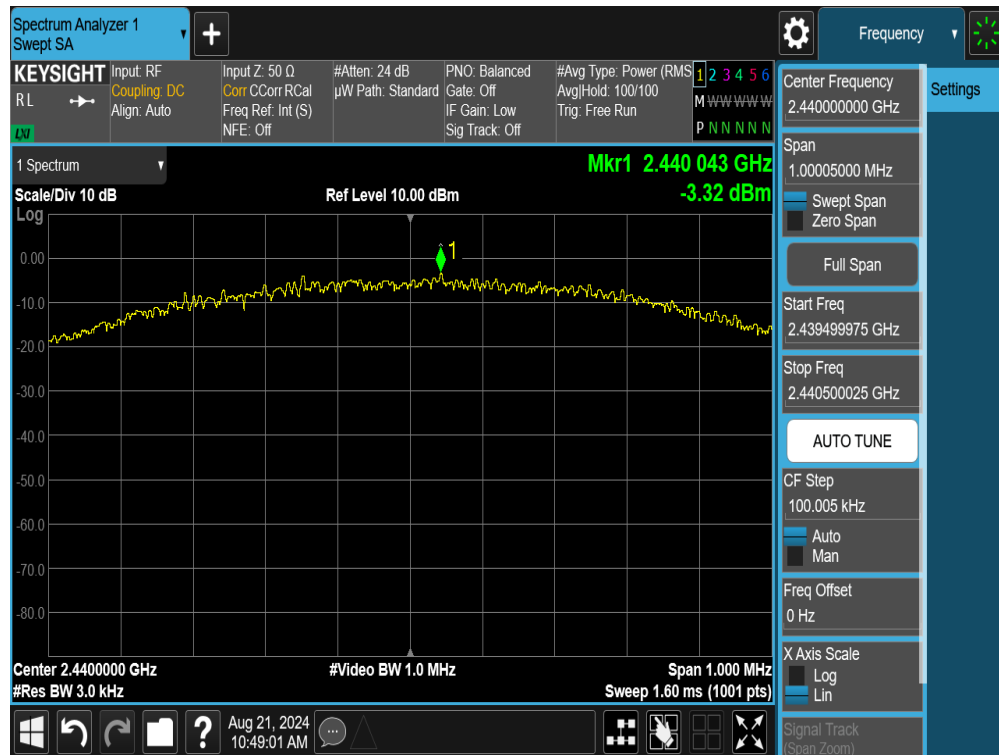
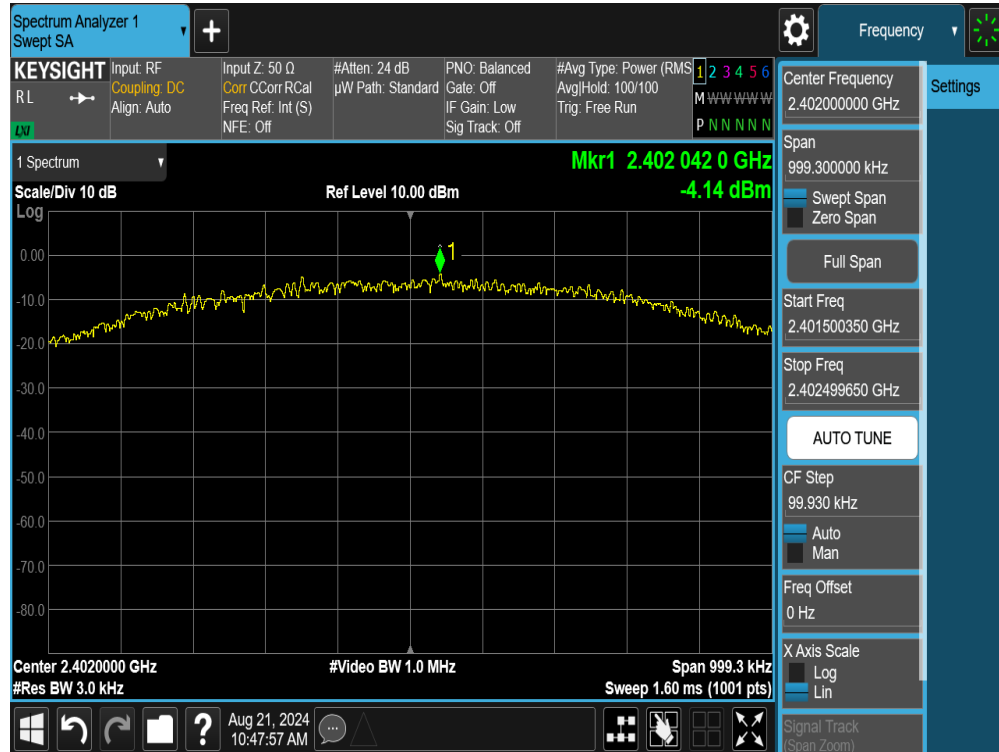


Plot 7-65. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 09) – Ant1

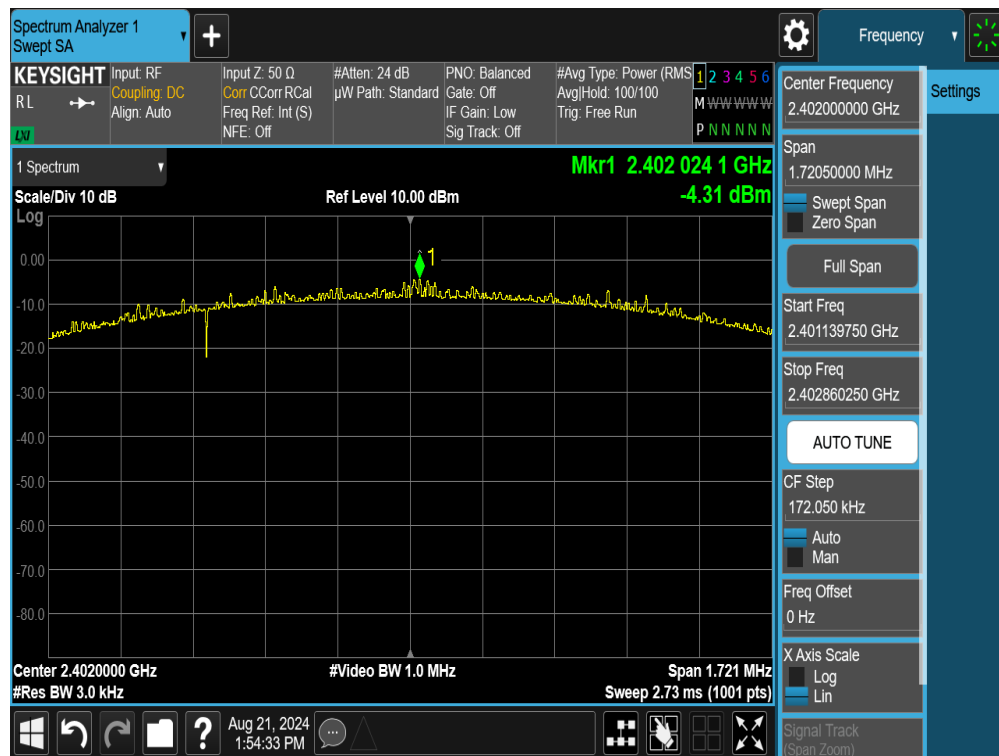
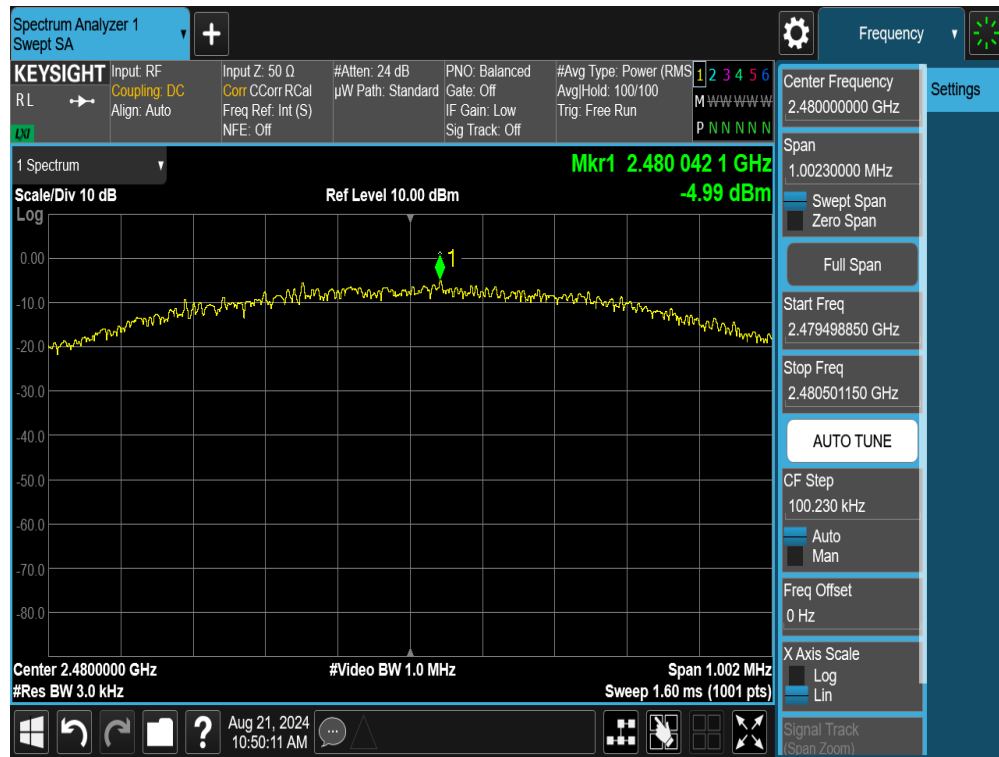


Plot 7-66. Power Spectral Density Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant1

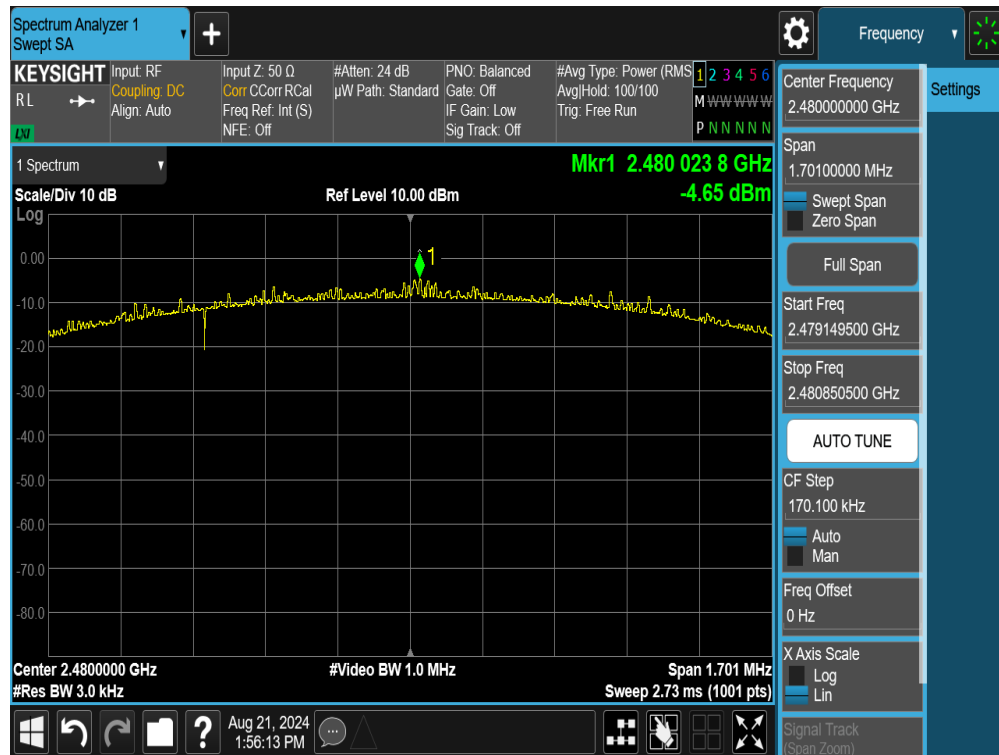
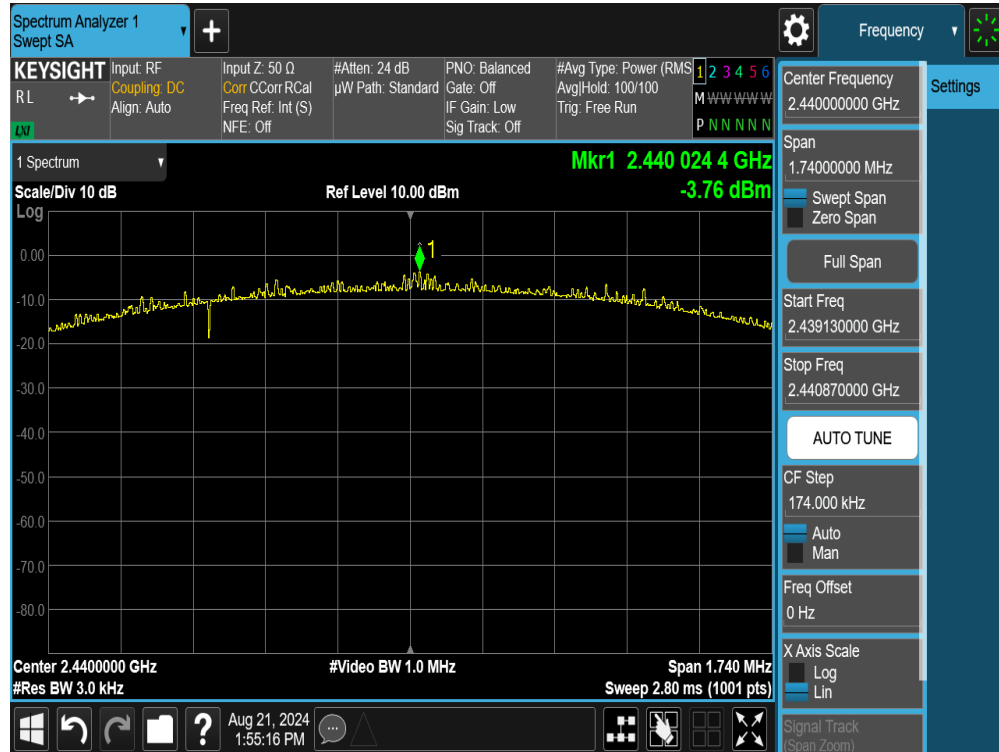
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 55 of 114



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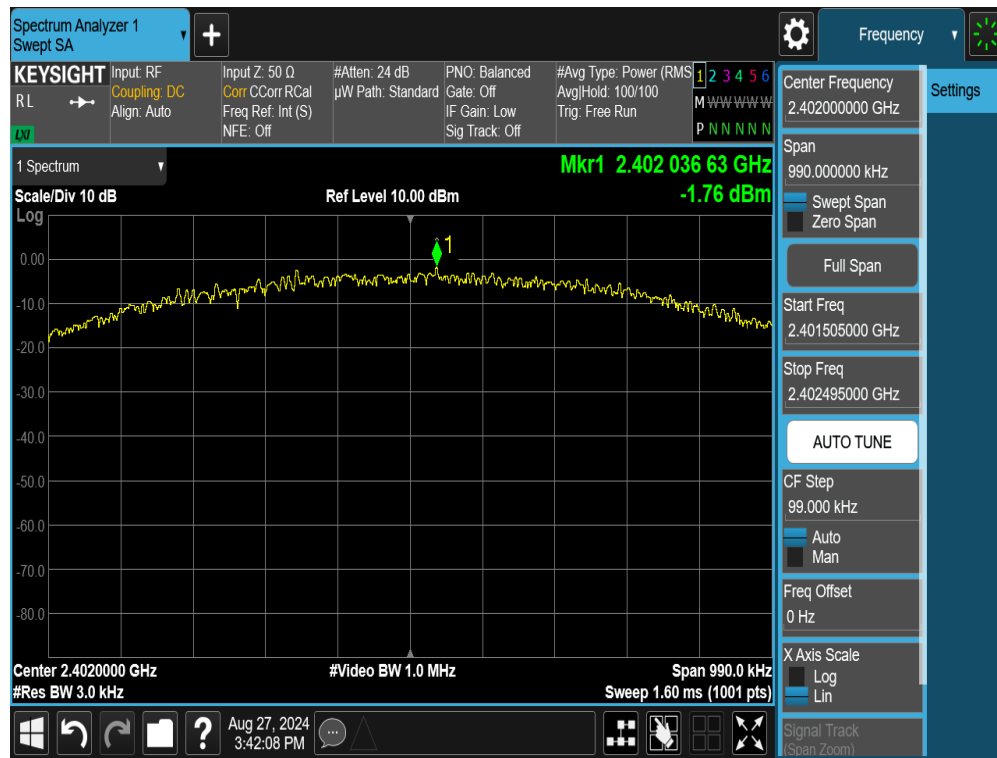
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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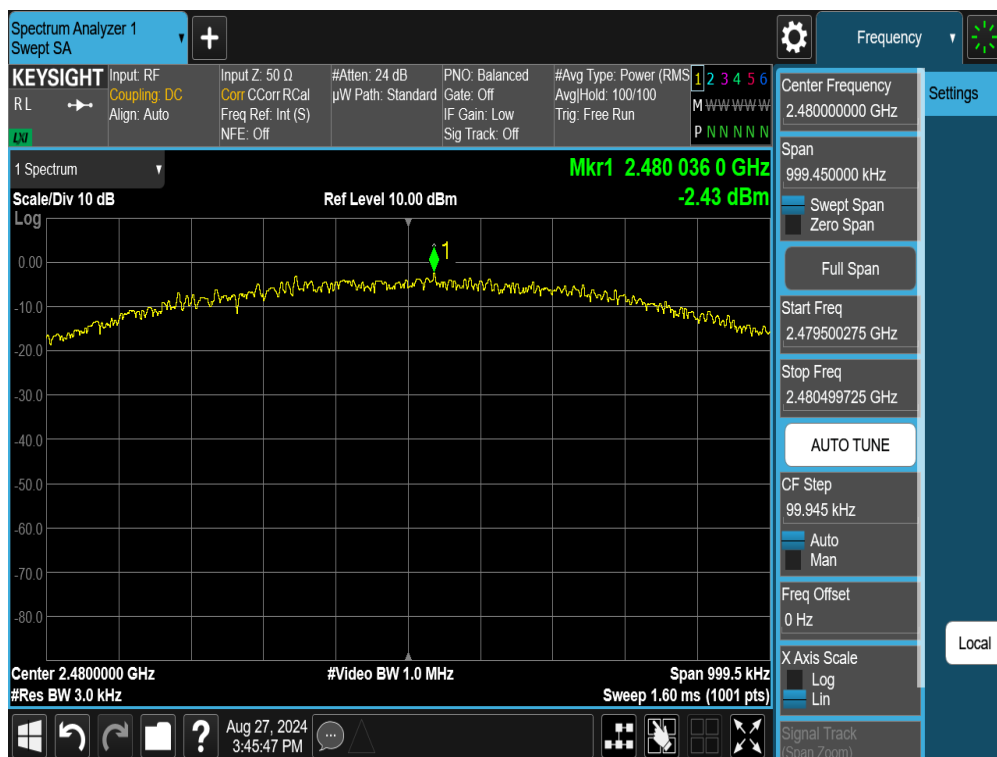
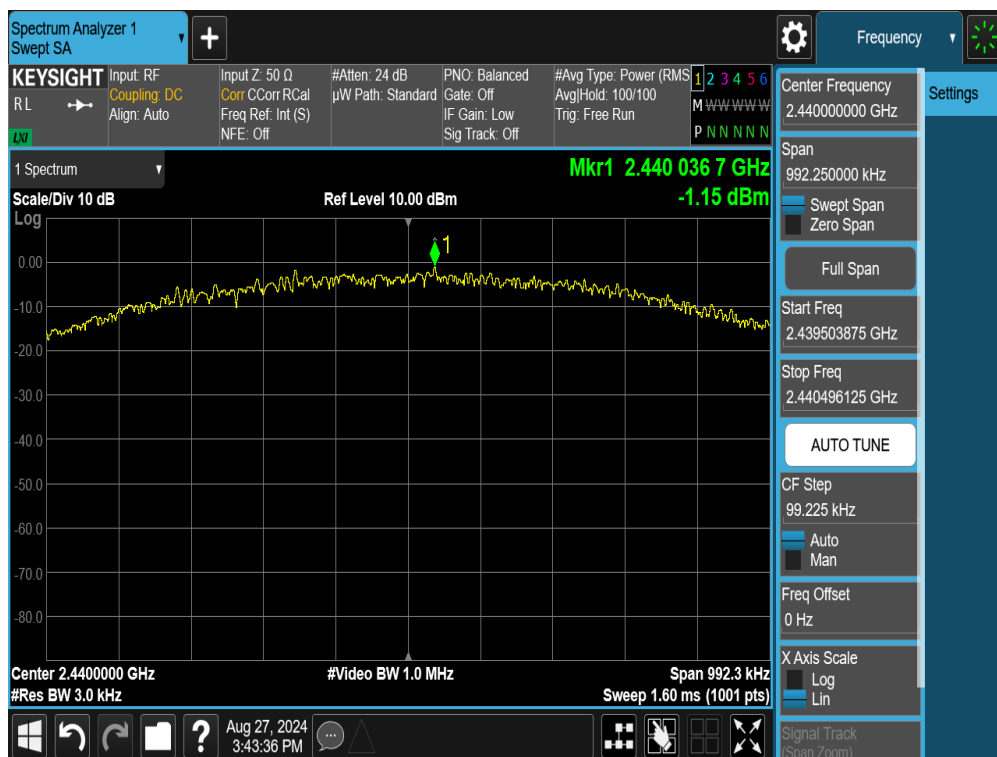
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	0	LE	-1.76	8.0	-9.76
2440	1 Mbps	19	LE	-1.15	8.0	-9.15
2480	1 Mbps	39	LE	-2.43	8.0	-10.43
2402	2 Mbps	0	LE	-5.16	8.0	-13.16
2440	2 Mbps	19	LE	-4.46	8.0	-12.46
2480	2 Mbps	39	LE	-5.48	8.0	-13.48

Table 7-11. Conducted Power Density Measurements – Ant2

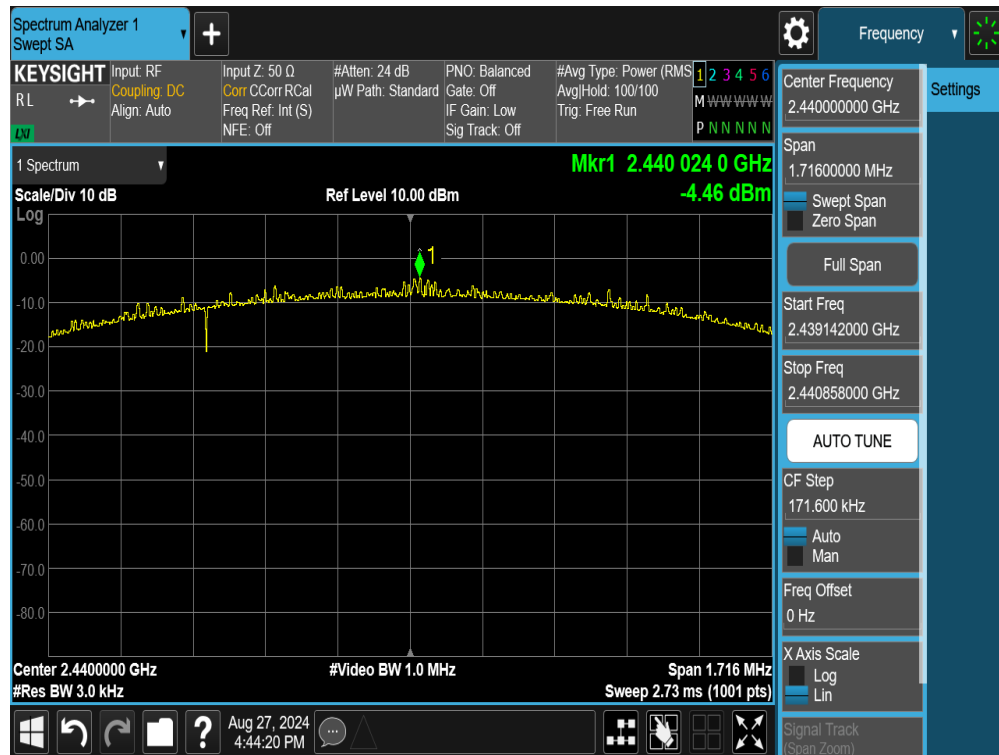
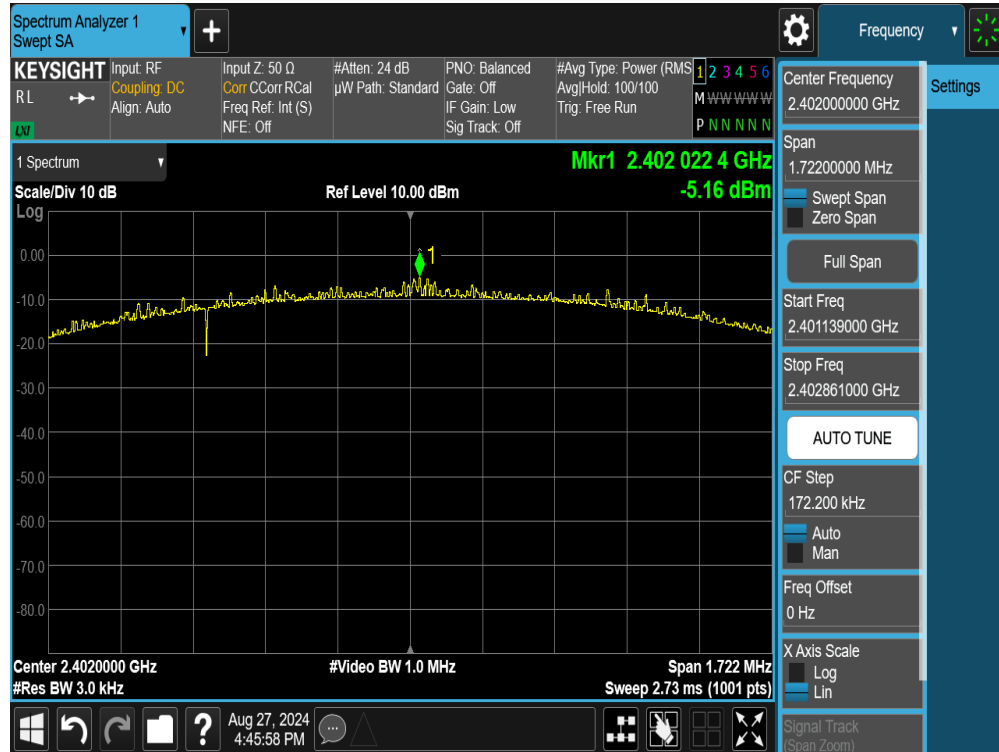


Plot 7-73. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant2

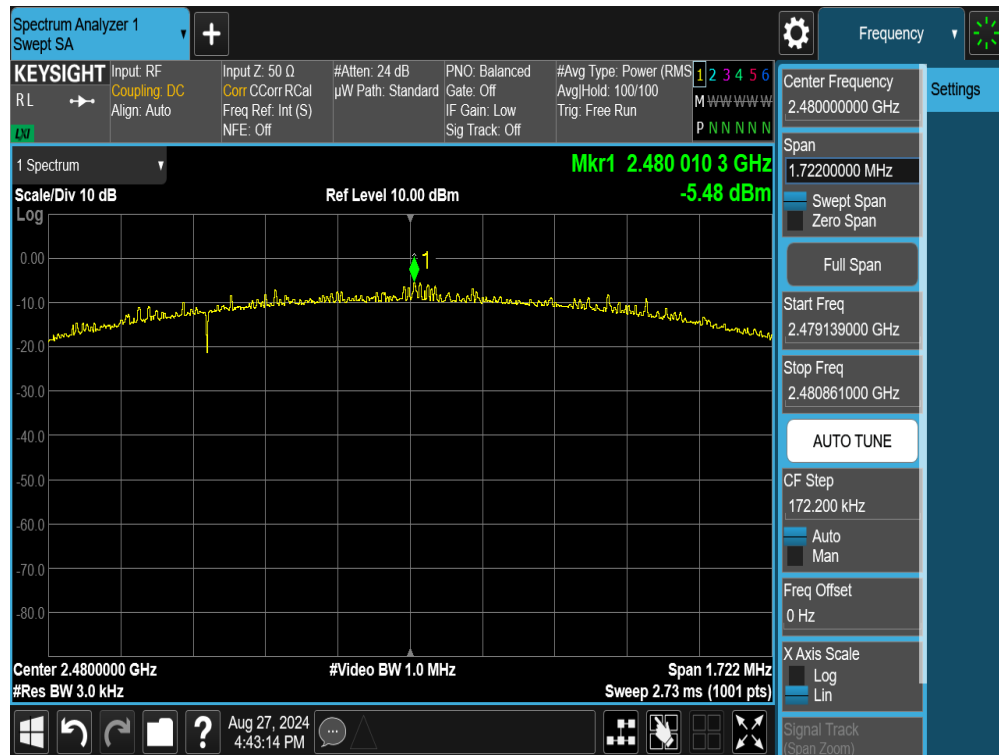
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 59 of 114



FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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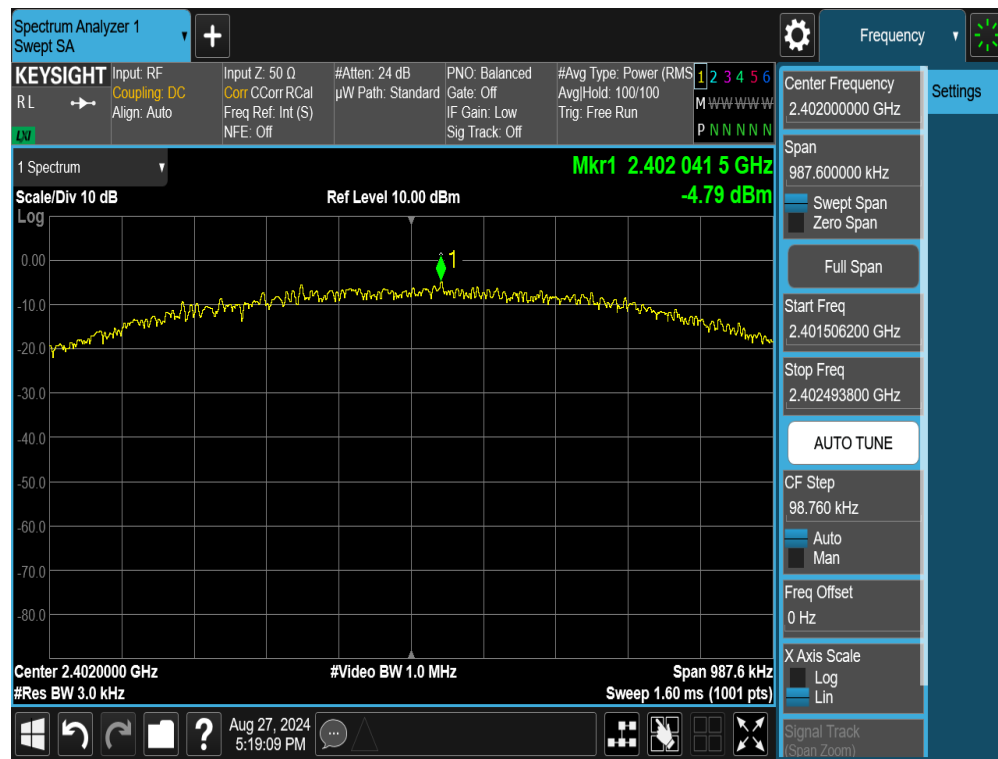


Plot 7-78. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 62 of 114

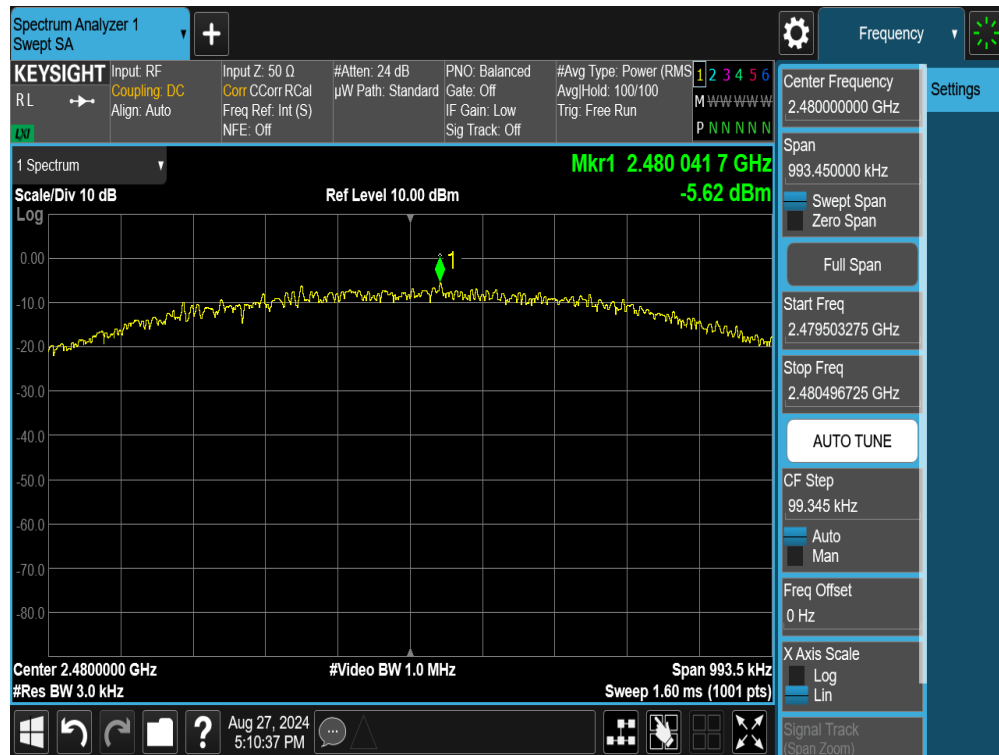
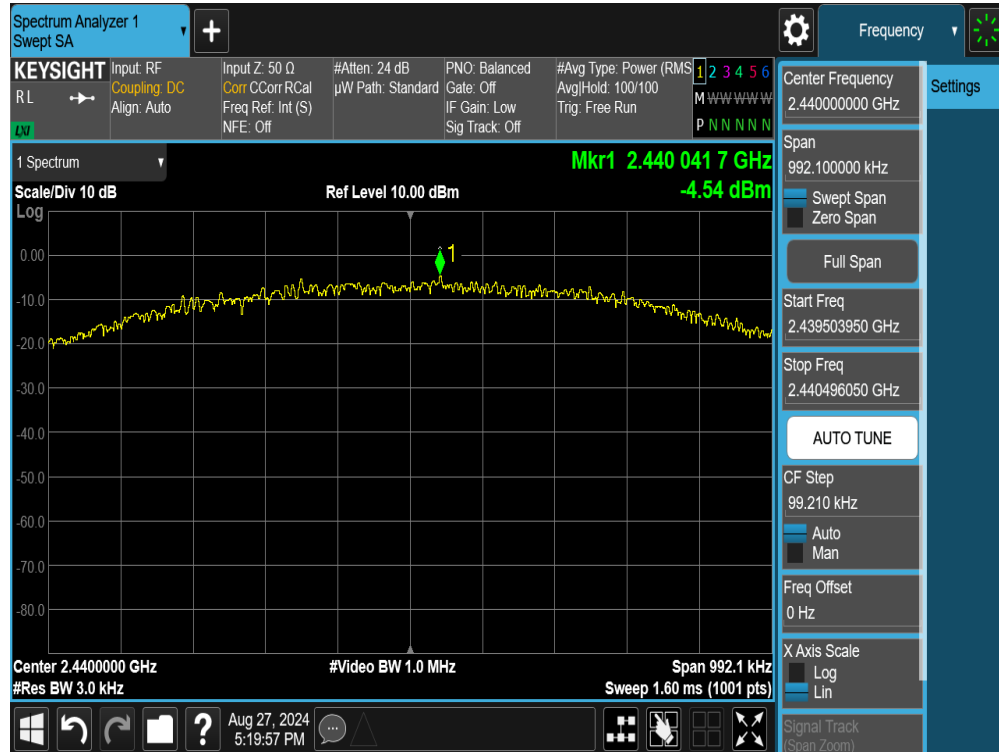
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	0	LE	-4.79	8.0	-12.79
2440	1 Mbps	19	LE	-4.54	8.0	-12.54
2480	1 Mbps	39	LE	-5.62	8.0	-13.62
2402	2 Mbps	0	LE	-7.84	8.0	-15.84
2440	2 Mbps	19	LE	-7.74	8.0	-15.74
2480	2 Mbps	39	LE	-8.73	8.0	-16.73

Table 7-12. Conducted Power Density Measurements – Dual Ant1

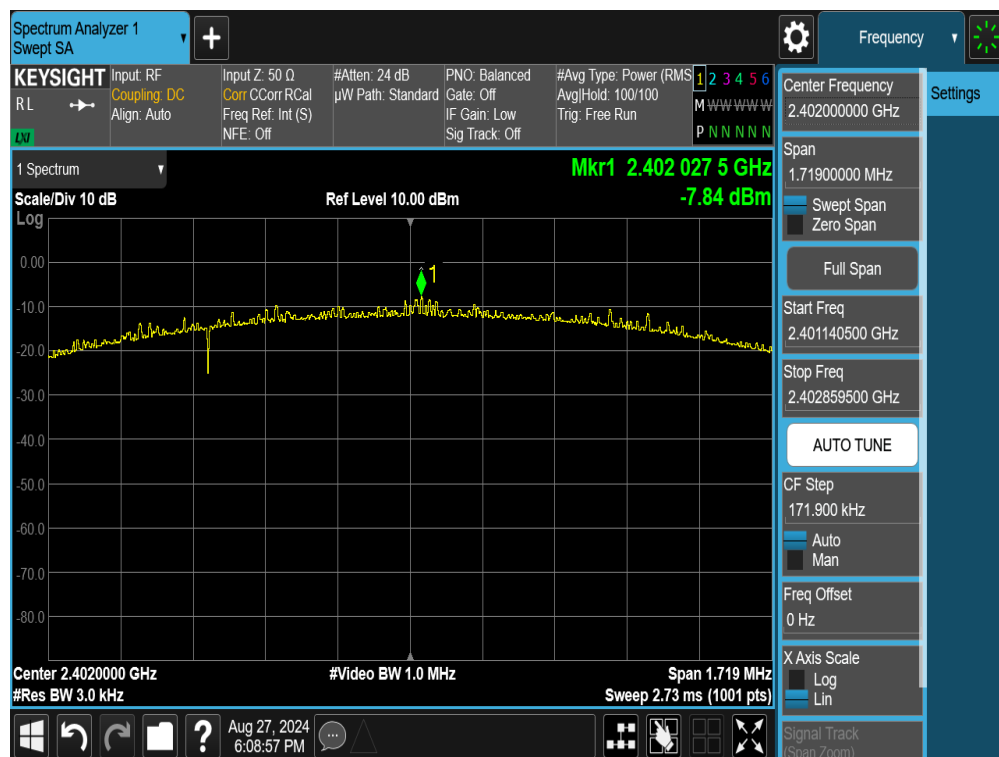


Plot 7-79. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant1

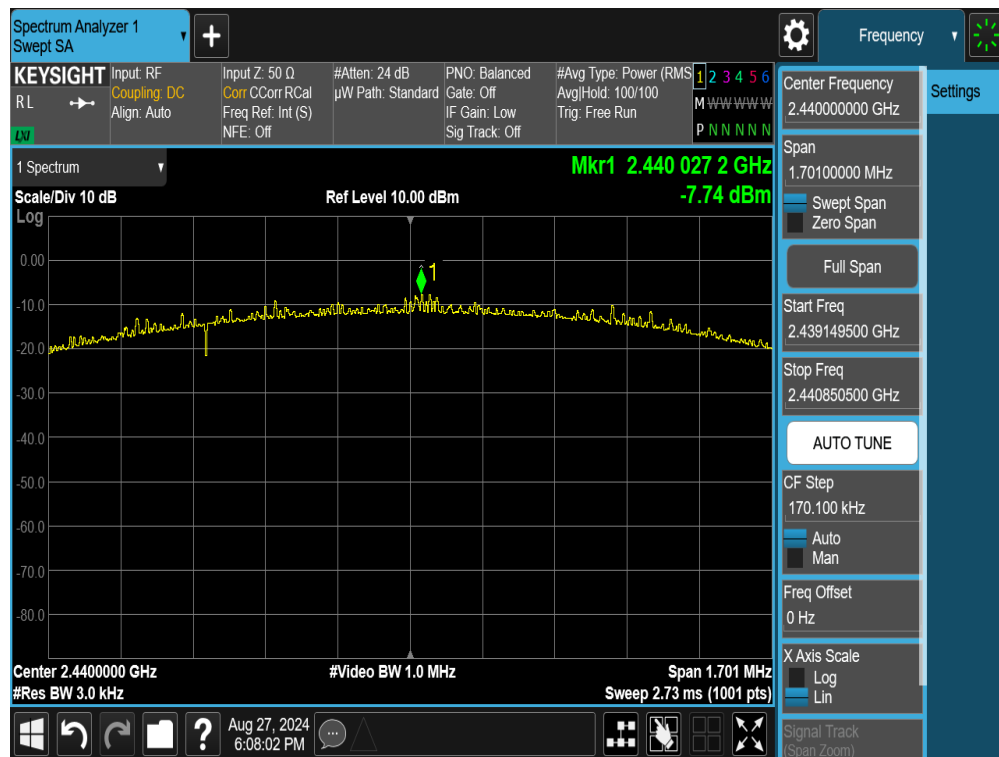
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 63 of 114



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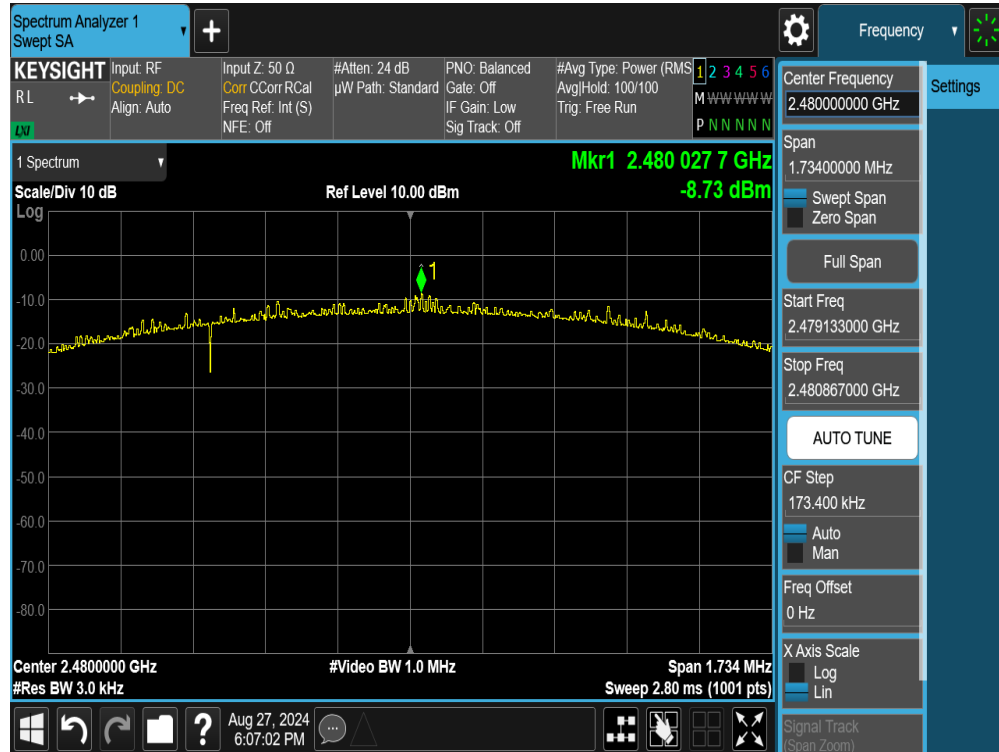


Plot 7-82. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Dual Ant1



Plot 7-83. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 09) – Dual Ant1

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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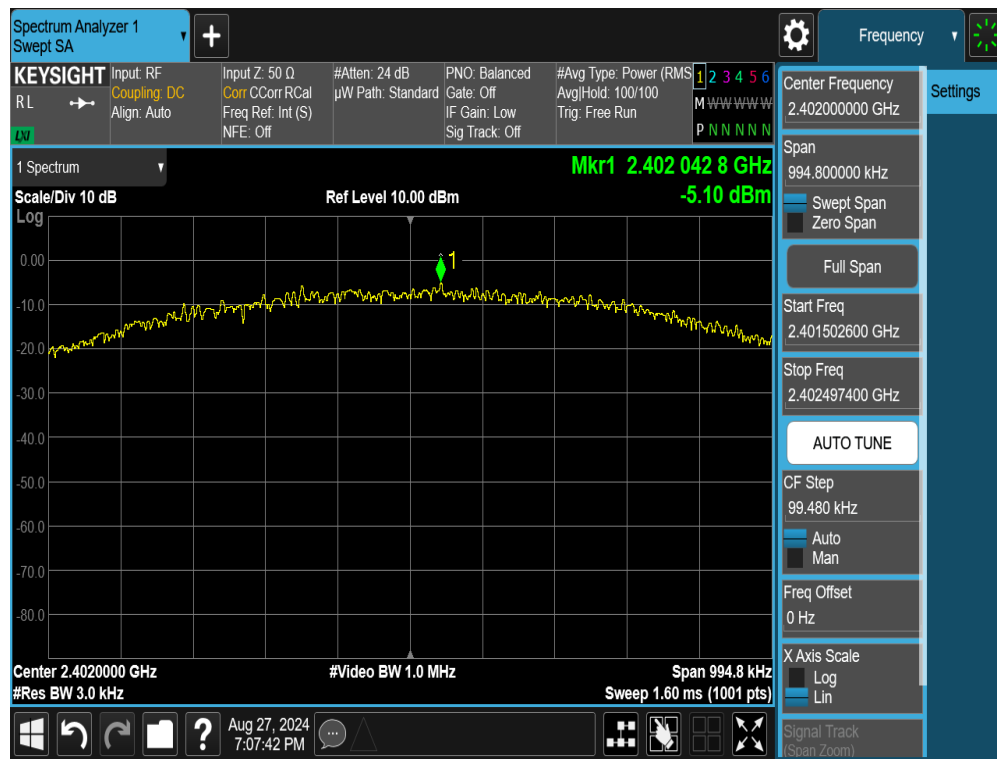


Plot 7-84. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Dual Ant1

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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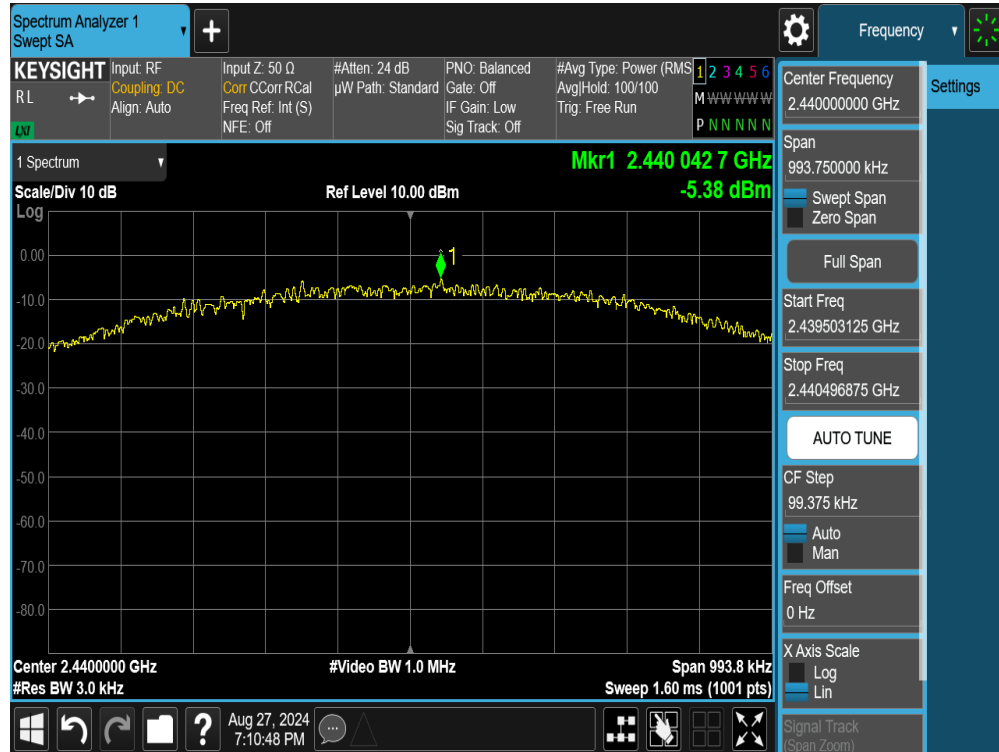
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	0	LE	-5.10	8.0	-13.10
2440	1 Mbps	19	LE	-5.38	8.0	-13.38
2480	1 Mbps	39	LE	-6.29	8.0	-14.29
2402	2 Mbps	0	LE	-8.11	8.0	-16.11
2440	2 Mbps	19	LE	-8.39	8.0	-16.39
2480	2 Mbps	39	LE	-9.31	8.0	-17.31

Table 7-13. Conducted Power Density Measurements – Dual Ant2

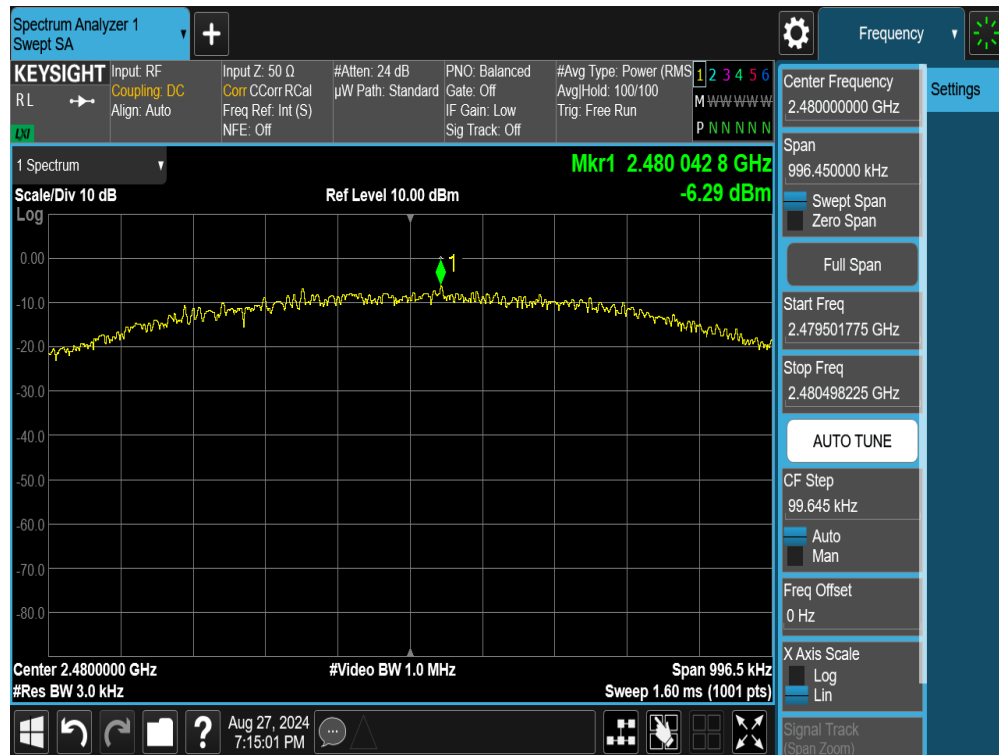


Plot 7-85. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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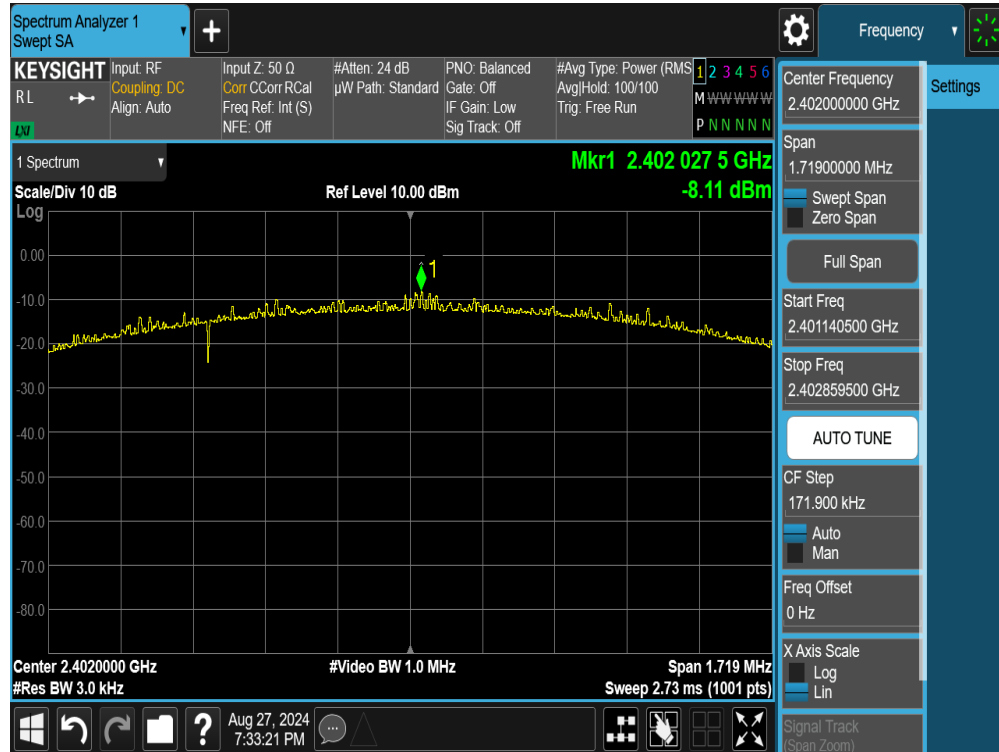


Plot 7-86. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 09) – Dual Ant2

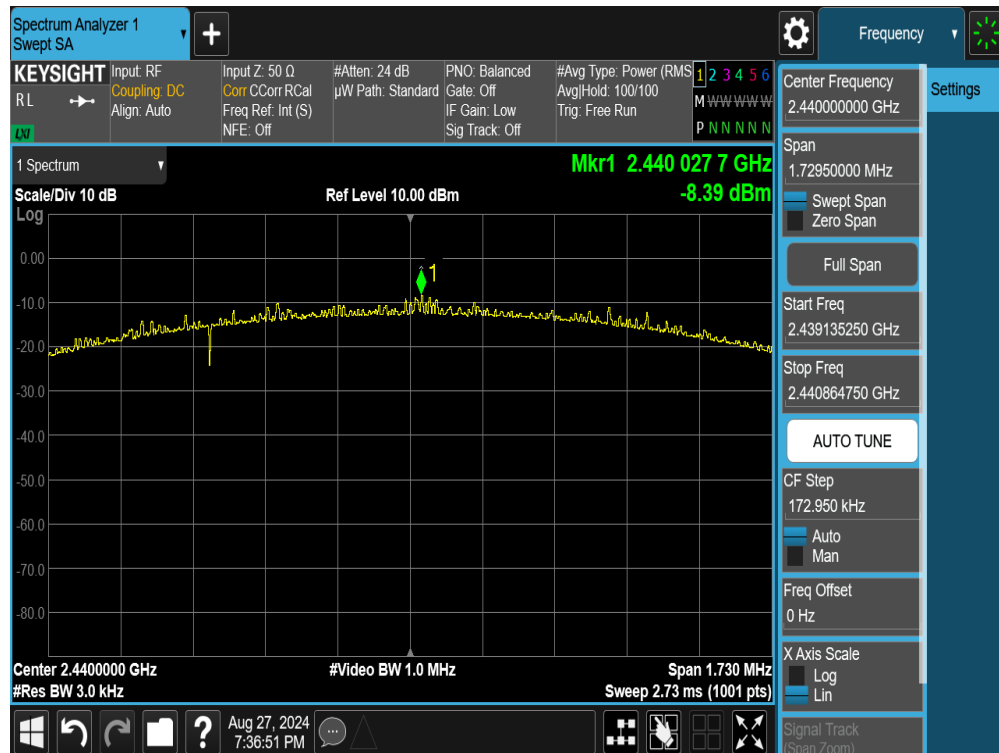


Plot 7-87. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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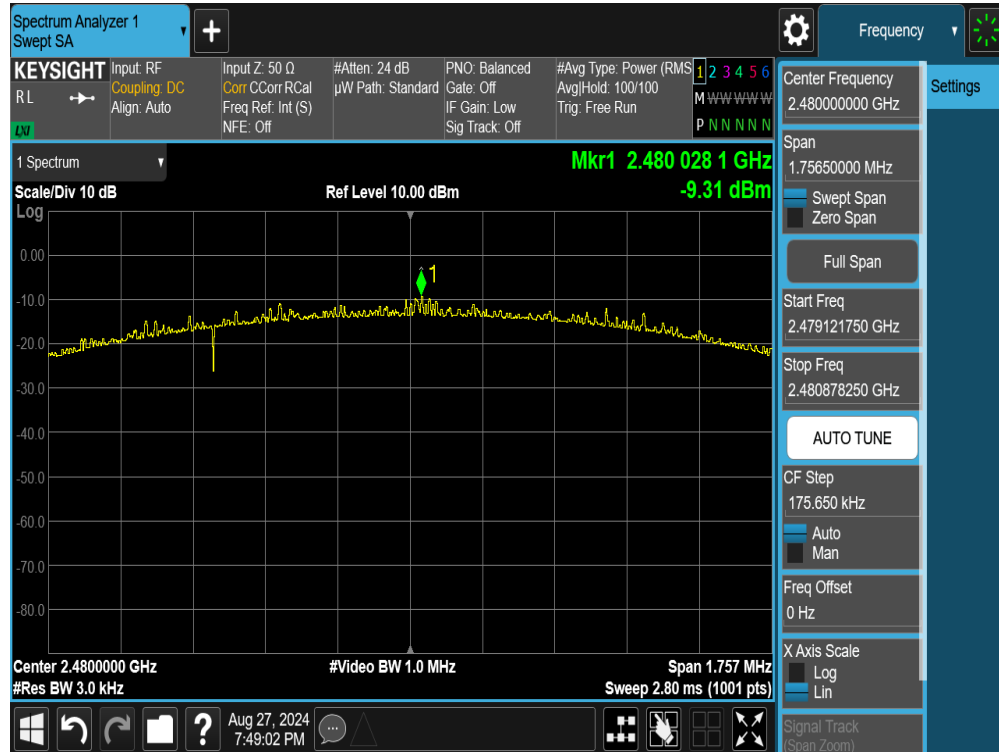


Plot 7-88. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Dual Ant2



Plot 7-89. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 09) – Dual Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-90. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Dual Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.5 Conducted Emissions at the Band Edge

§15.247(d)

Test Overview and Limit

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set to transmit at maximum power with the largest packet size available. These settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

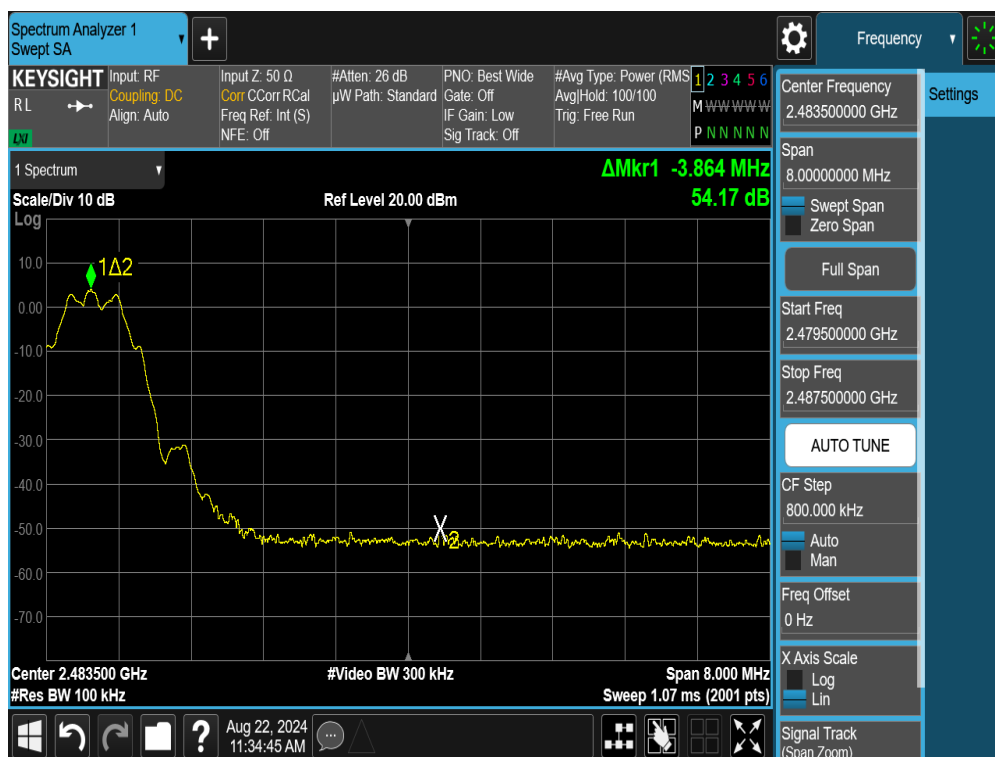
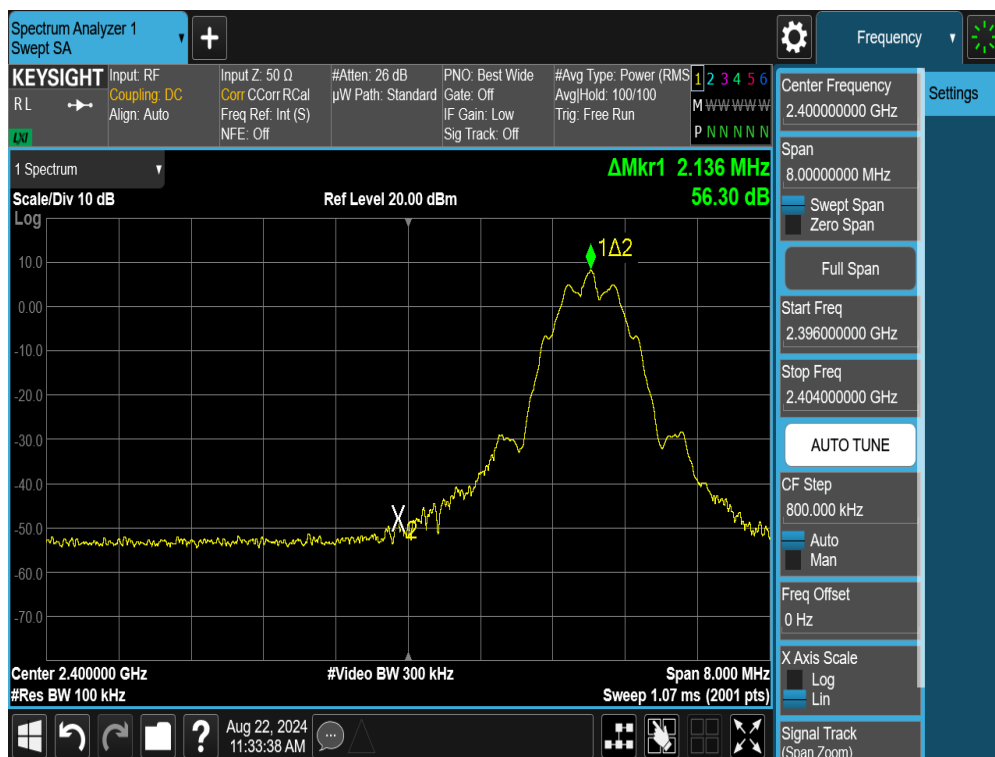


Figure 7-4. Test Instrument & Measurement Setup

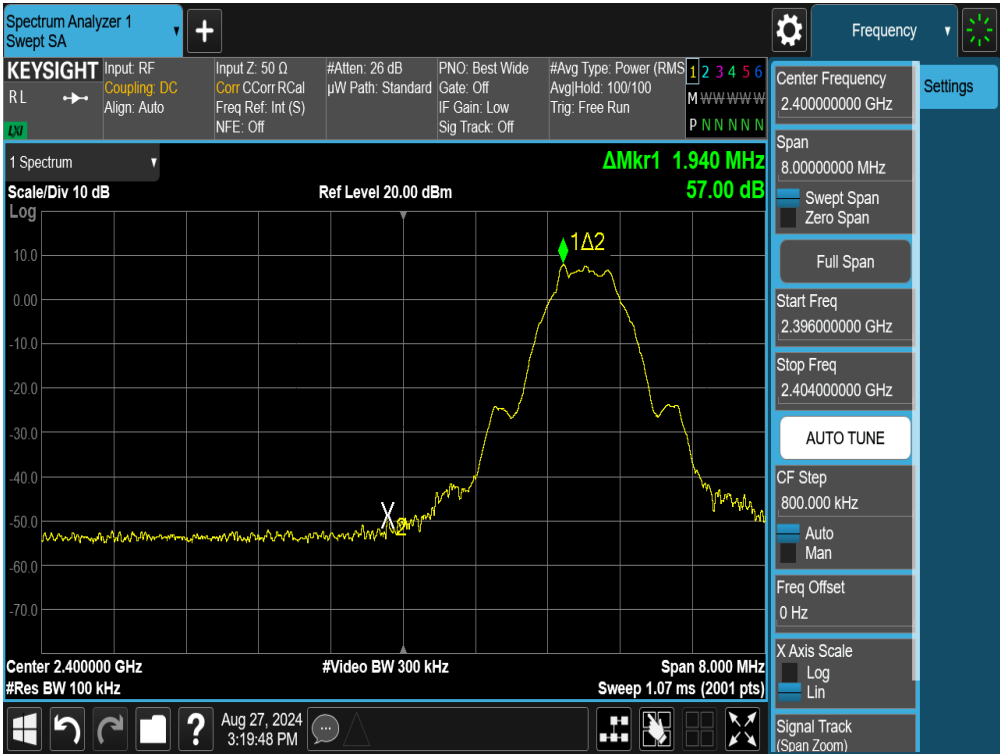
Test Notes

None

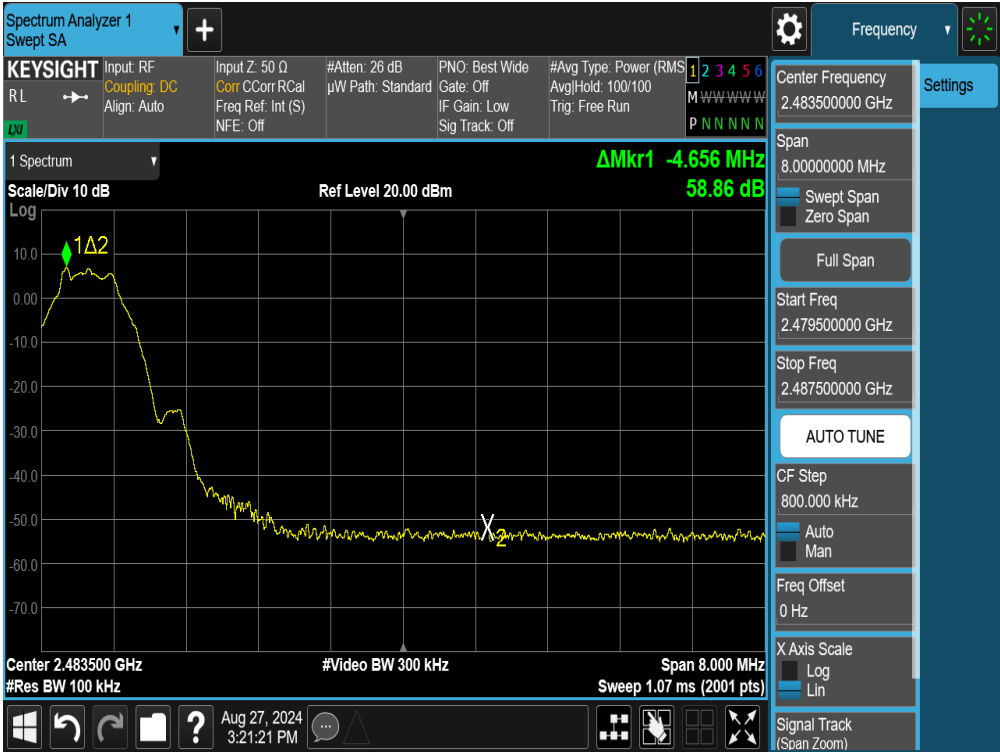
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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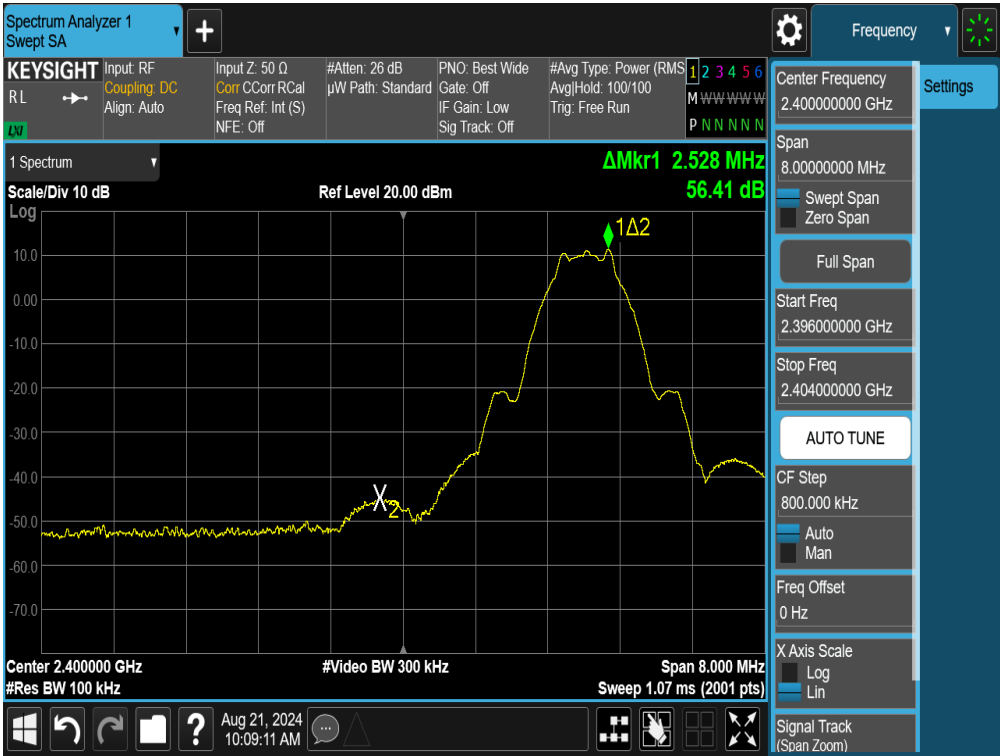


Plot 7-93. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 0) – Ant1

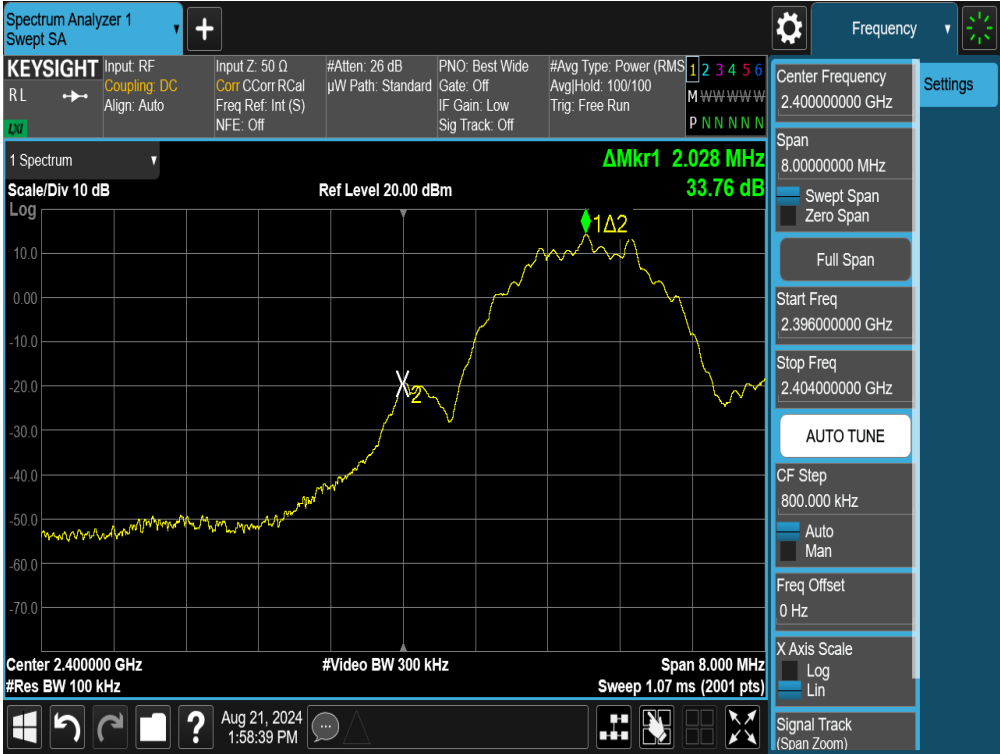


Plot 7-94. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant1

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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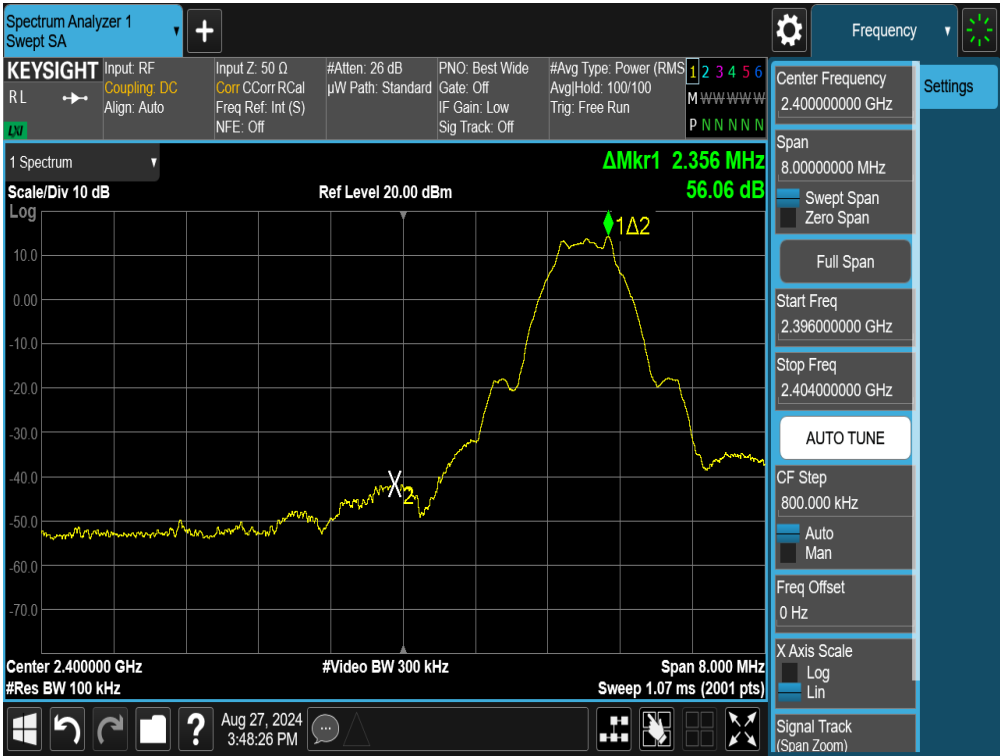


Plot 7-97. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant1



Plot 7-98. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Ant1

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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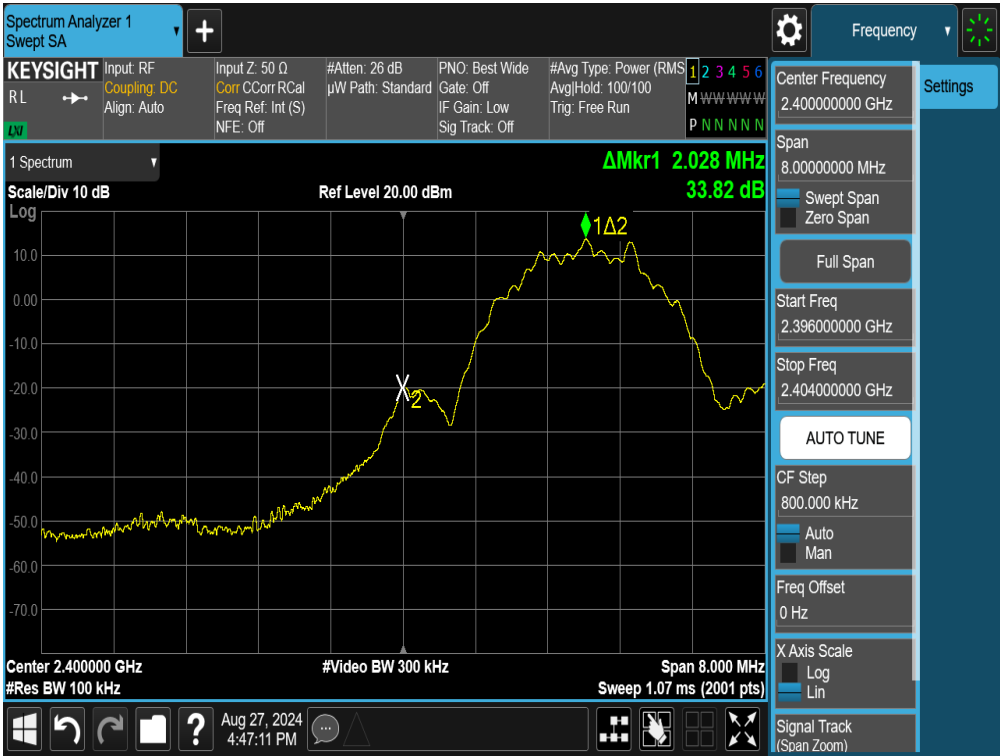


Plot 7-99. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant2



Plot 7-100. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 76 of 114

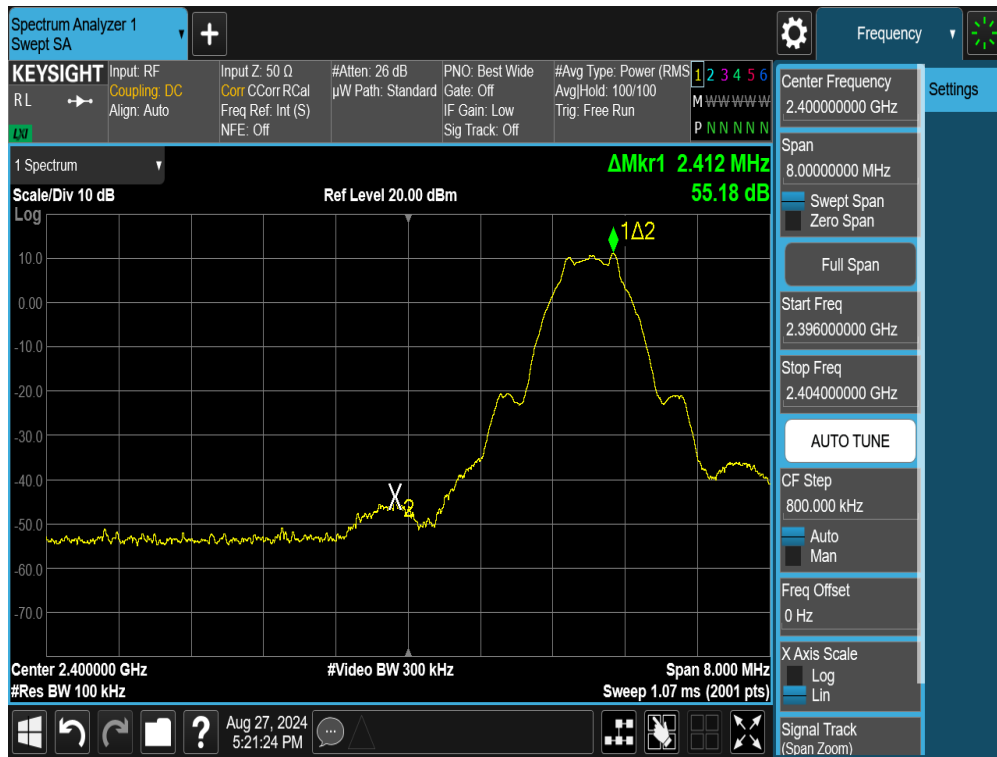


Plot 7-101. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant2



Plot 7-102. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Ant2

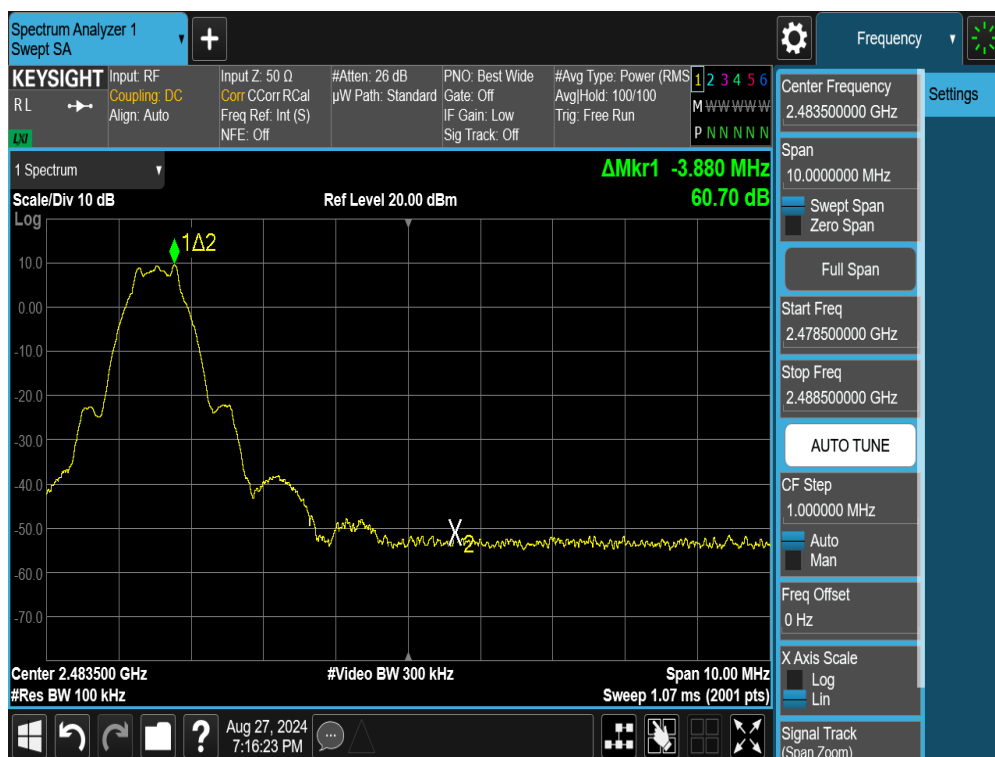
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 77 of 114



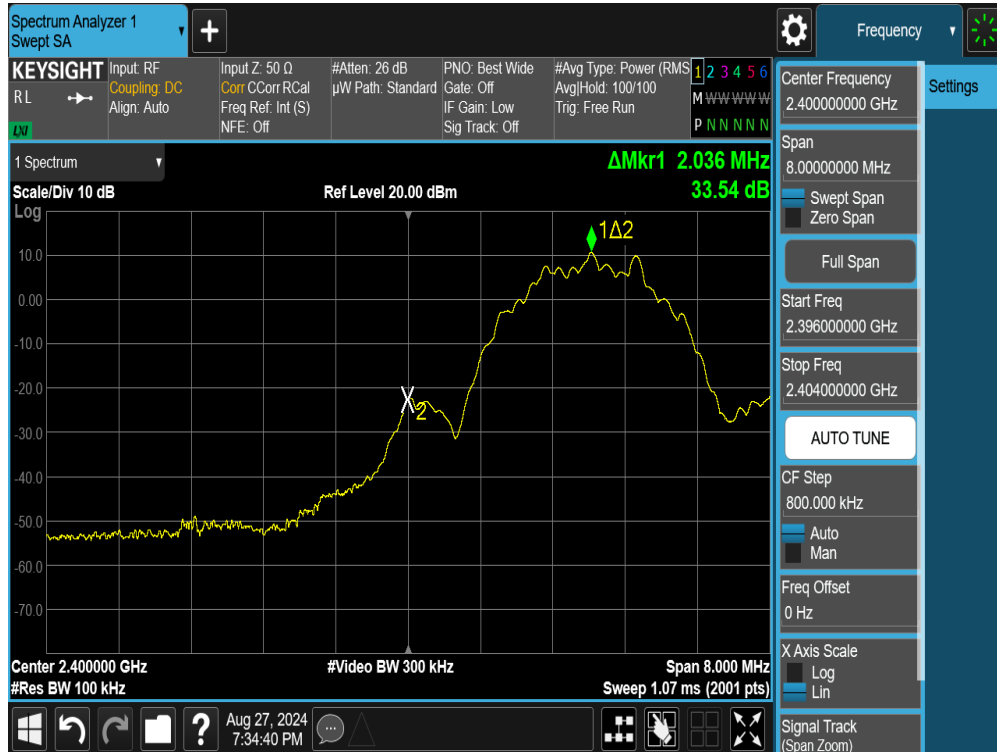
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-109. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Dual Ant2



Plot 7-110. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Dual Ant2

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.6 Conducted Spurious Emissions

§15.247(d)

Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



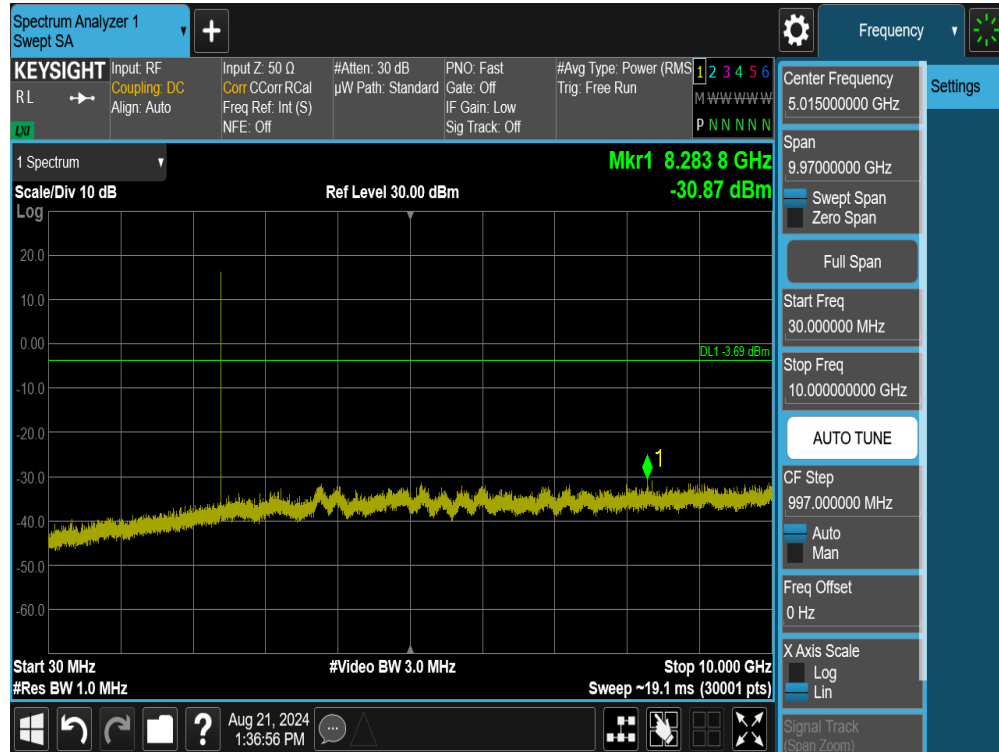
Figure 7-5. Test Instrument & Measurement Setup

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2407080057-03.A3L	Test Dates: 08/19/2024 – 08/28/2024	EUT Type: Portable Computing Device	Page 82 of 114

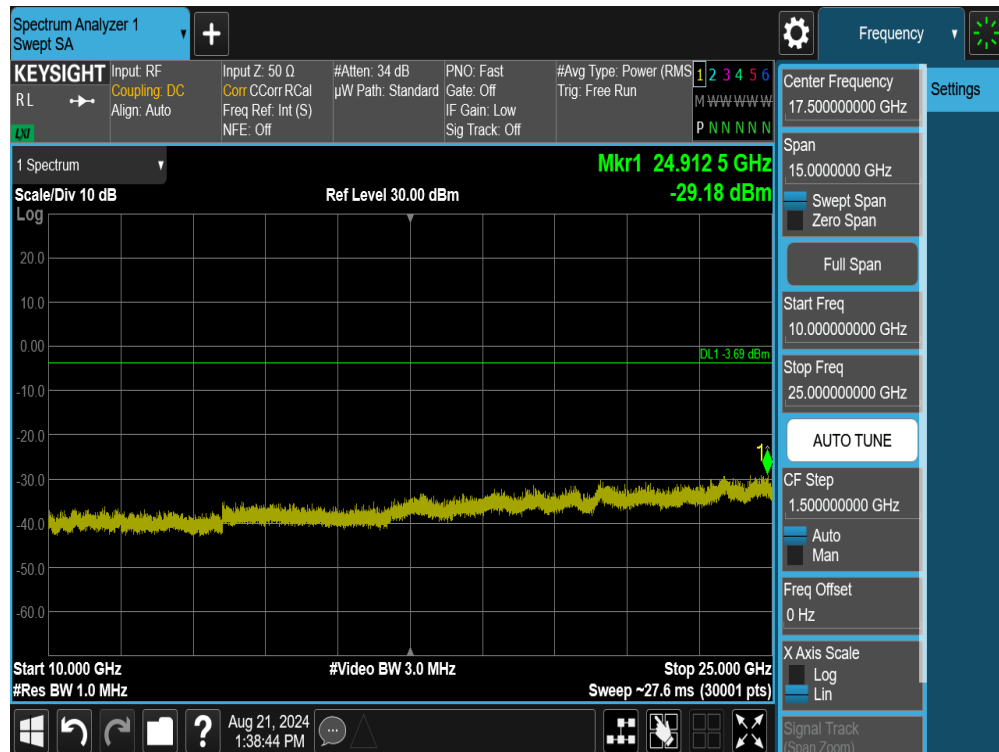
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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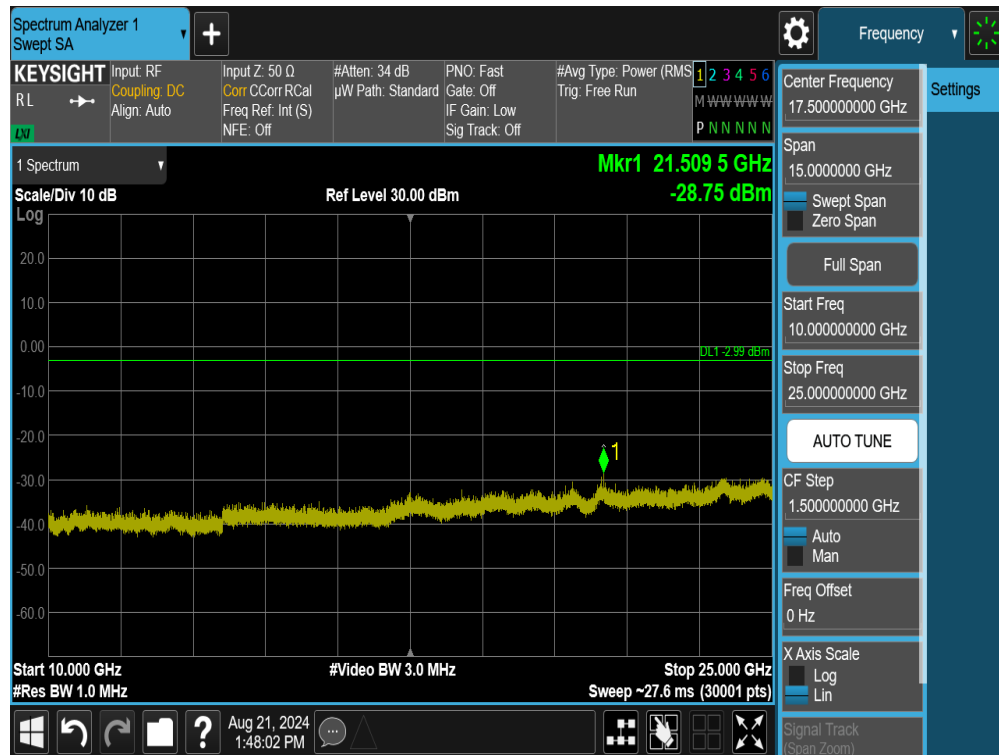
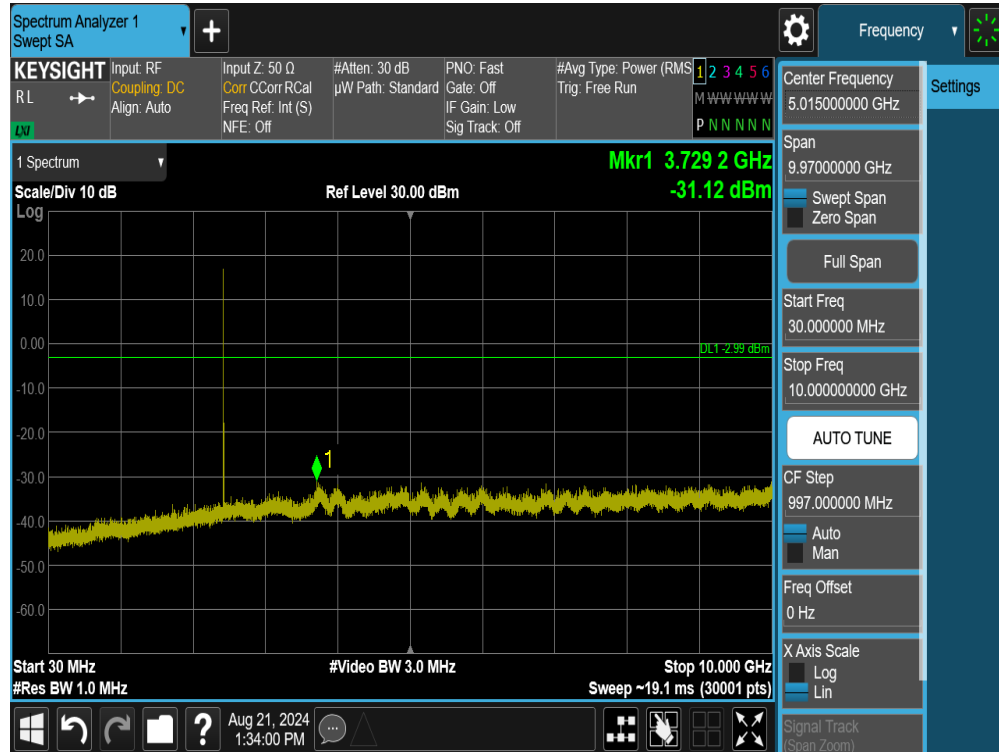


Plot 7-111. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant1

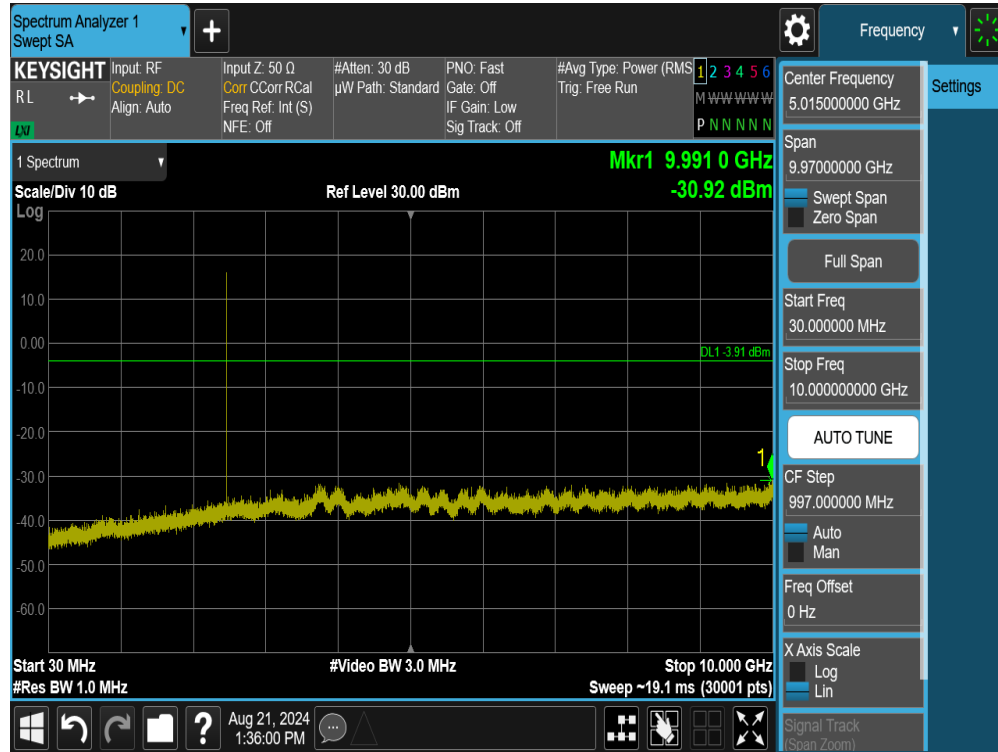


Plot 7-112. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant1

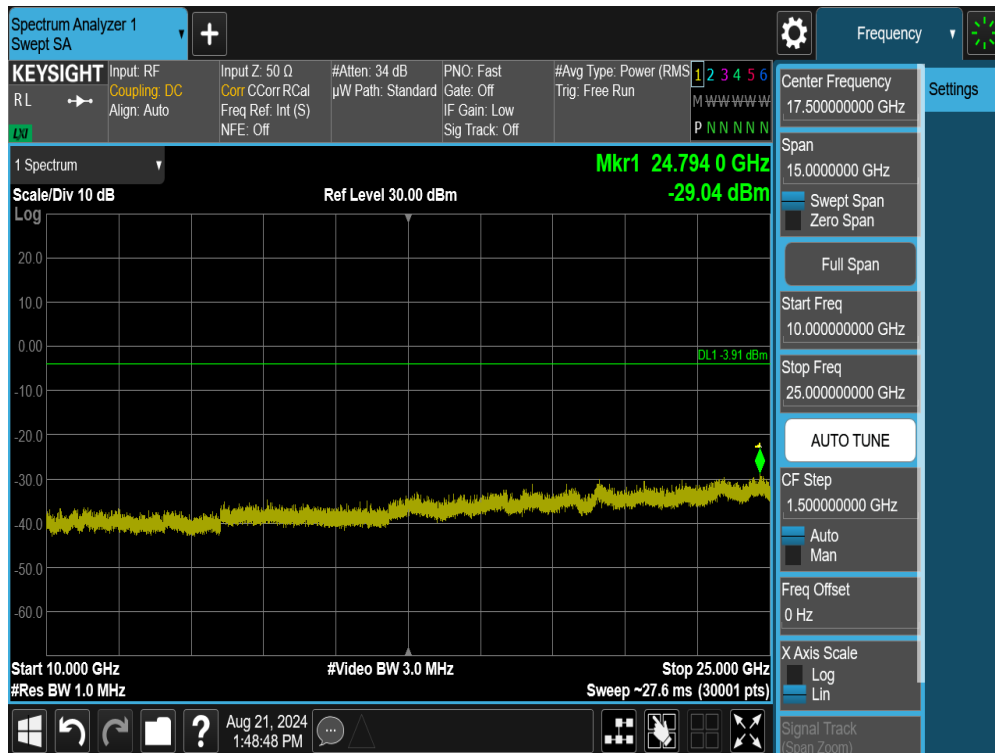
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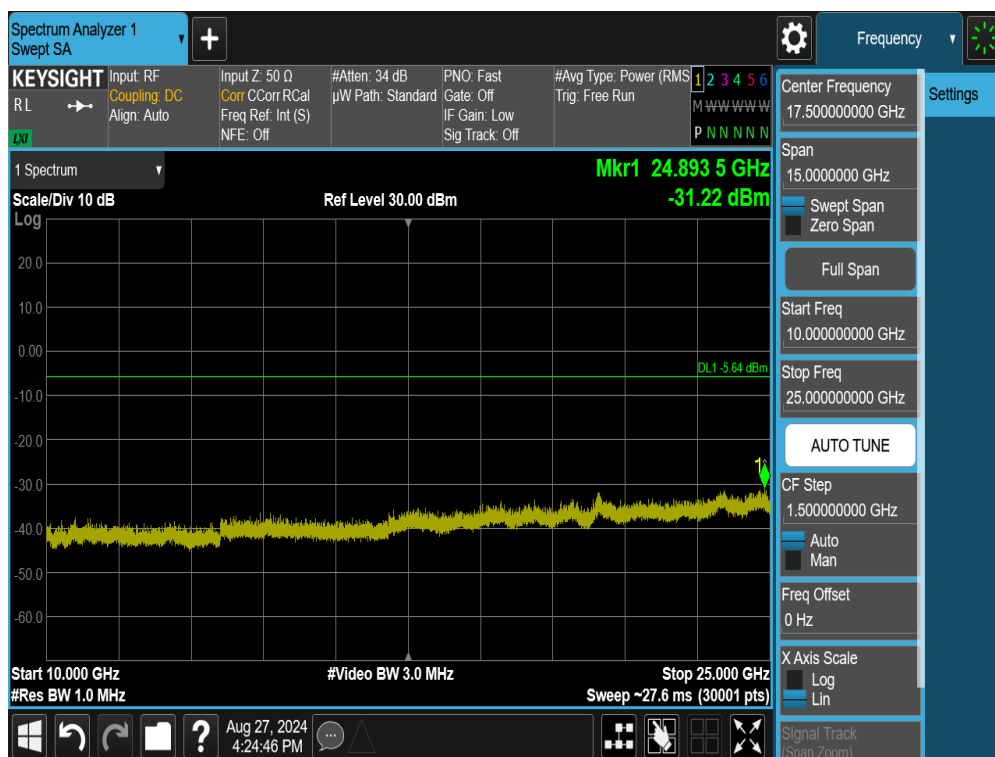
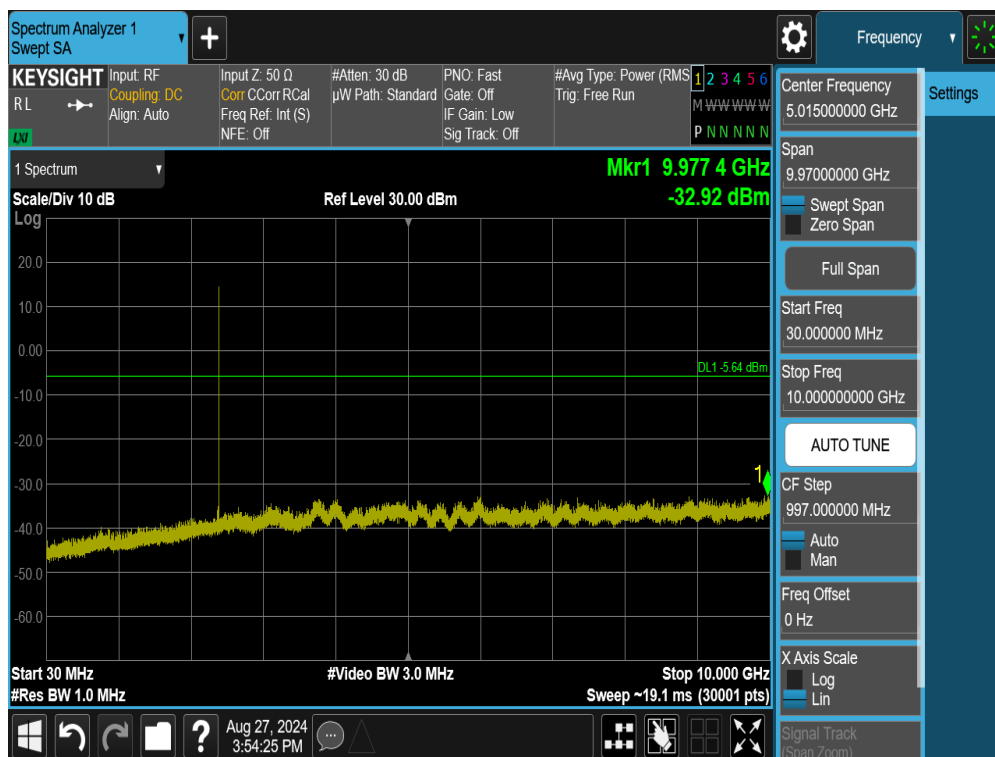


Plot 7-115. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant1

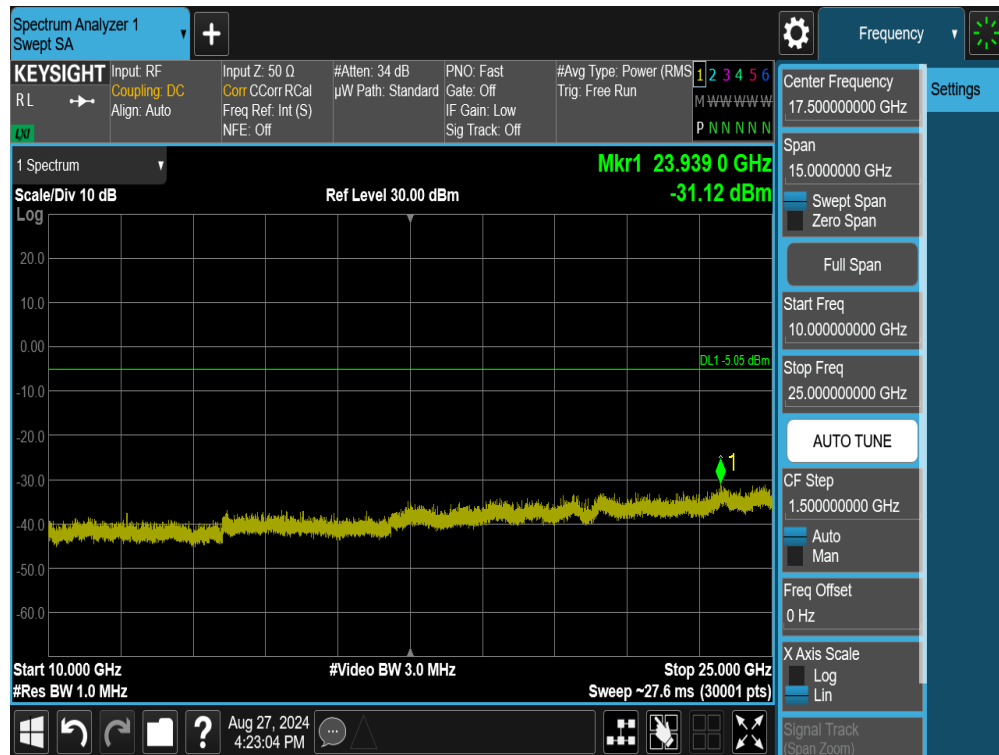
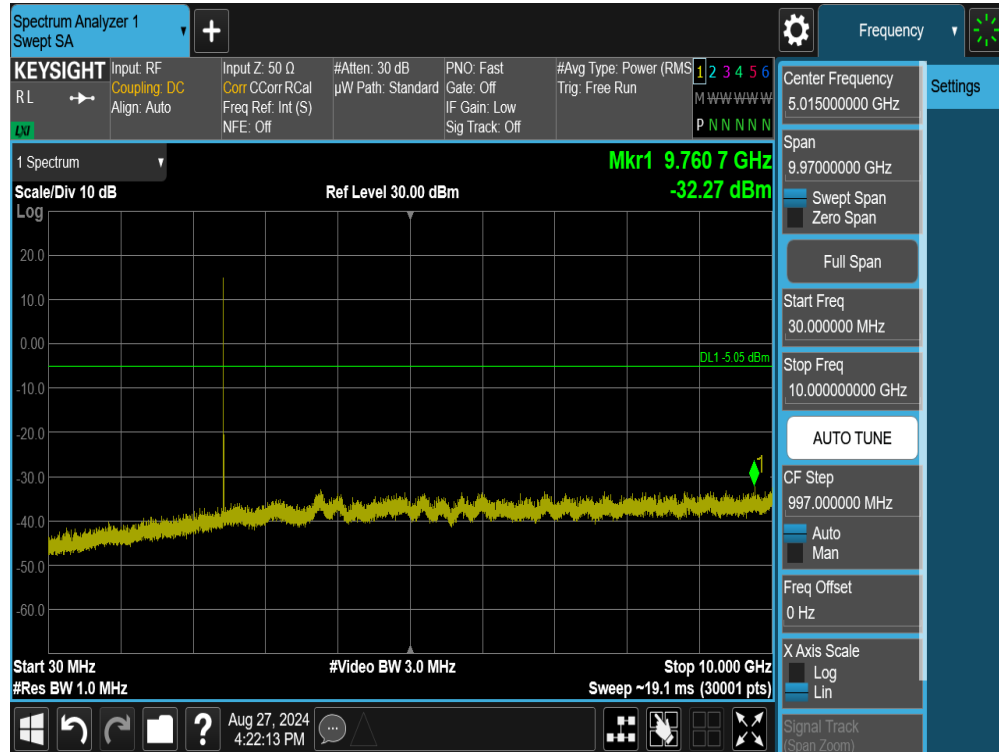


Plot 7-116. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant1

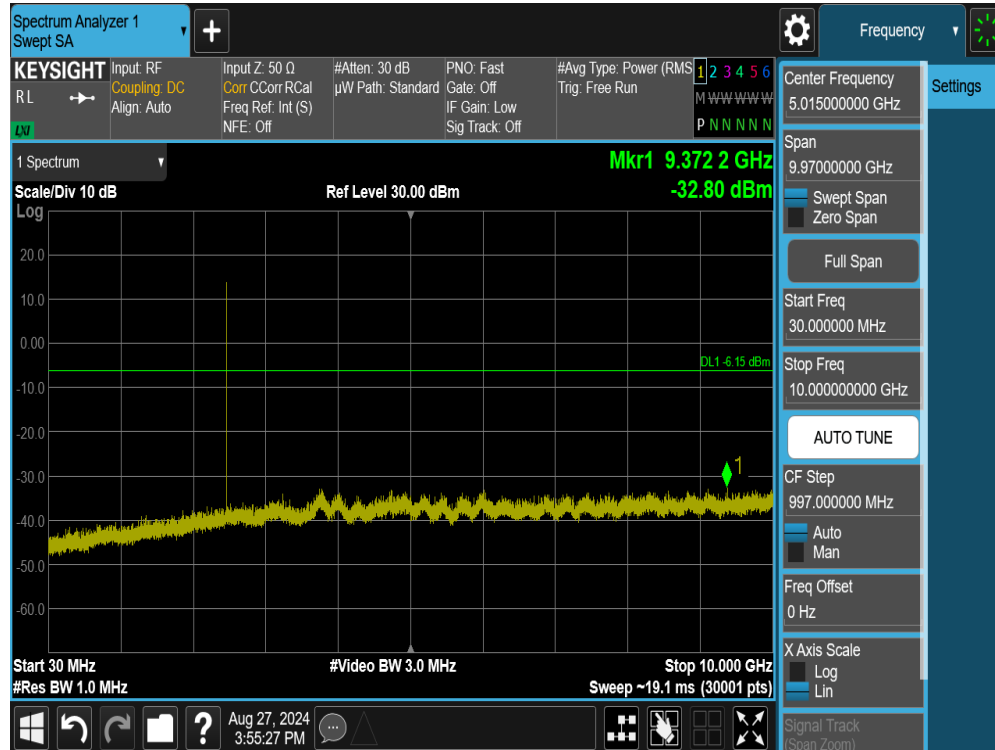
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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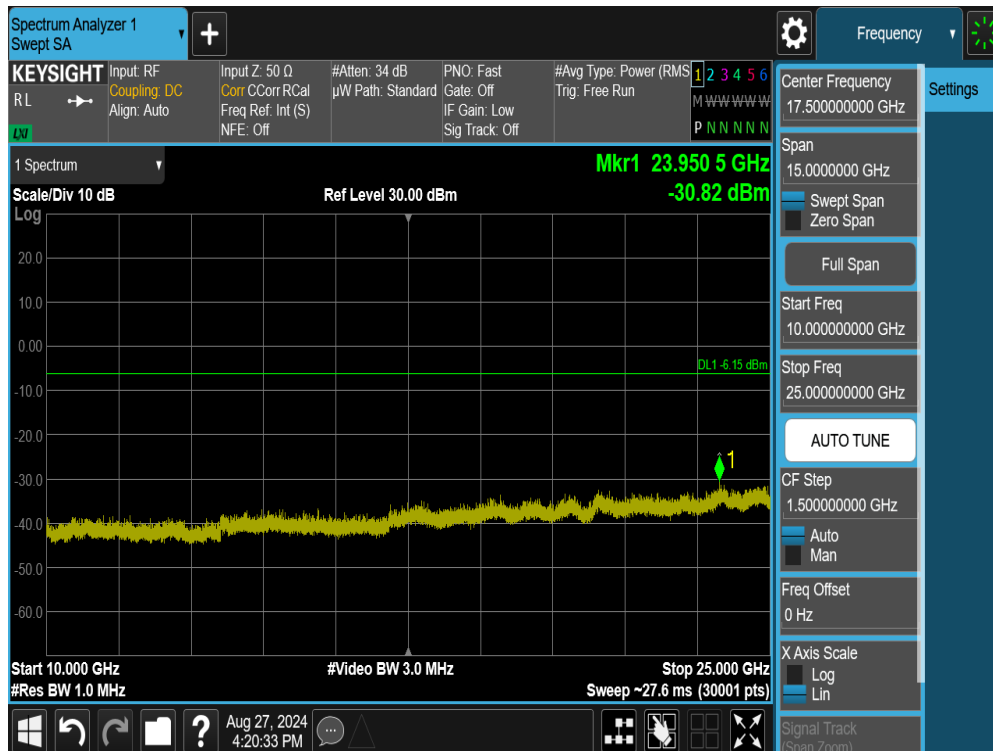
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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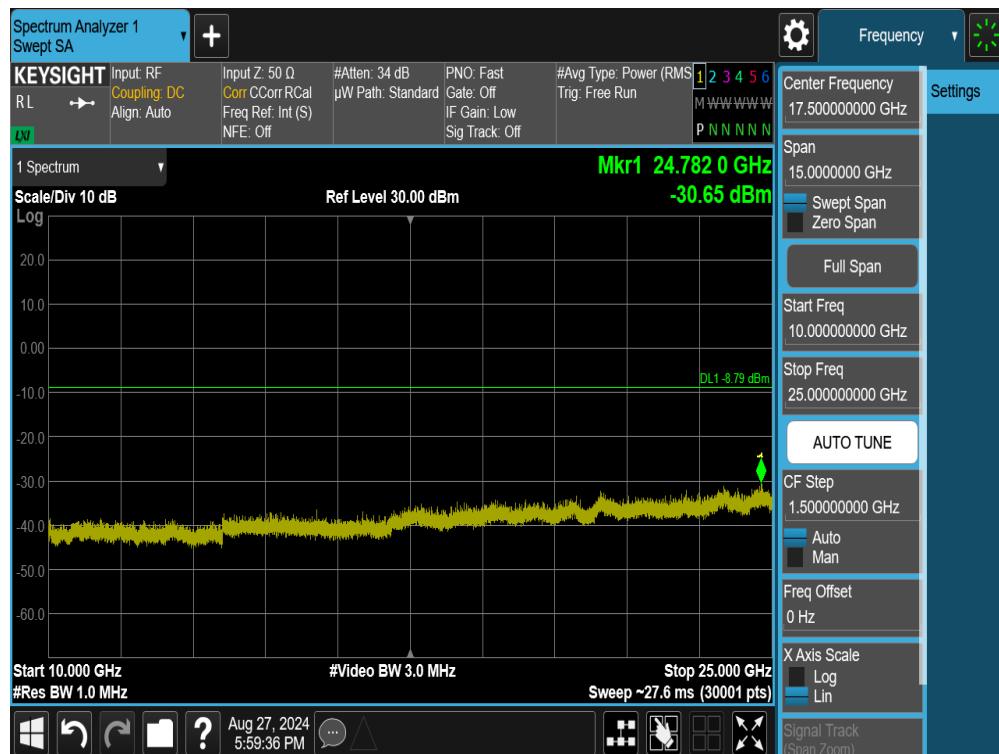
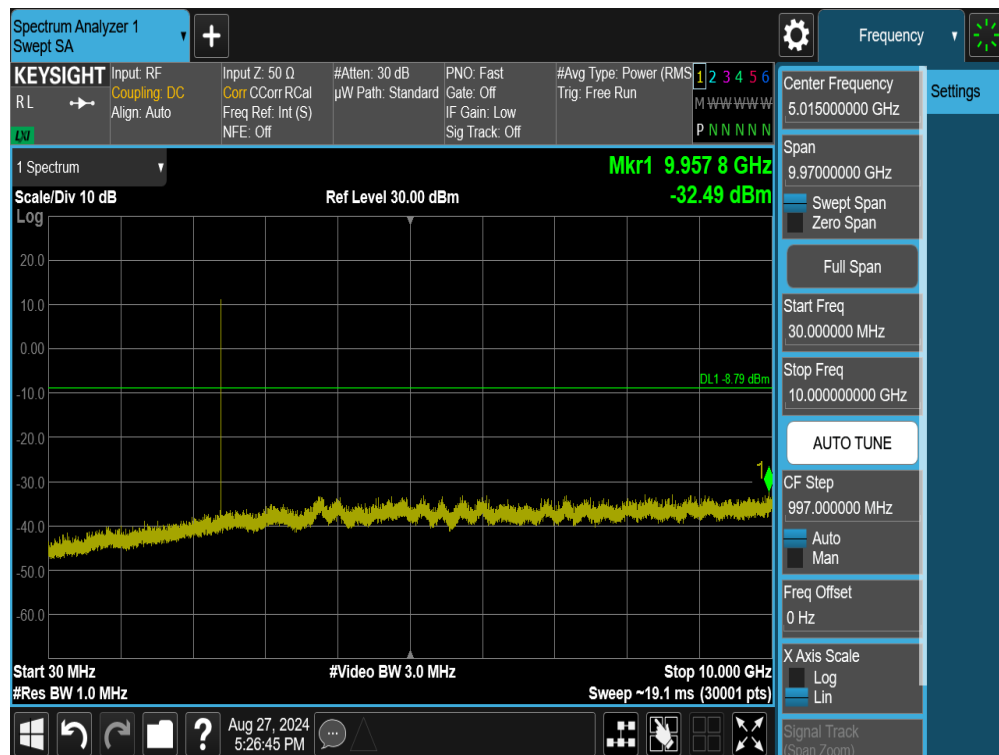


Plot 7-121. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant2

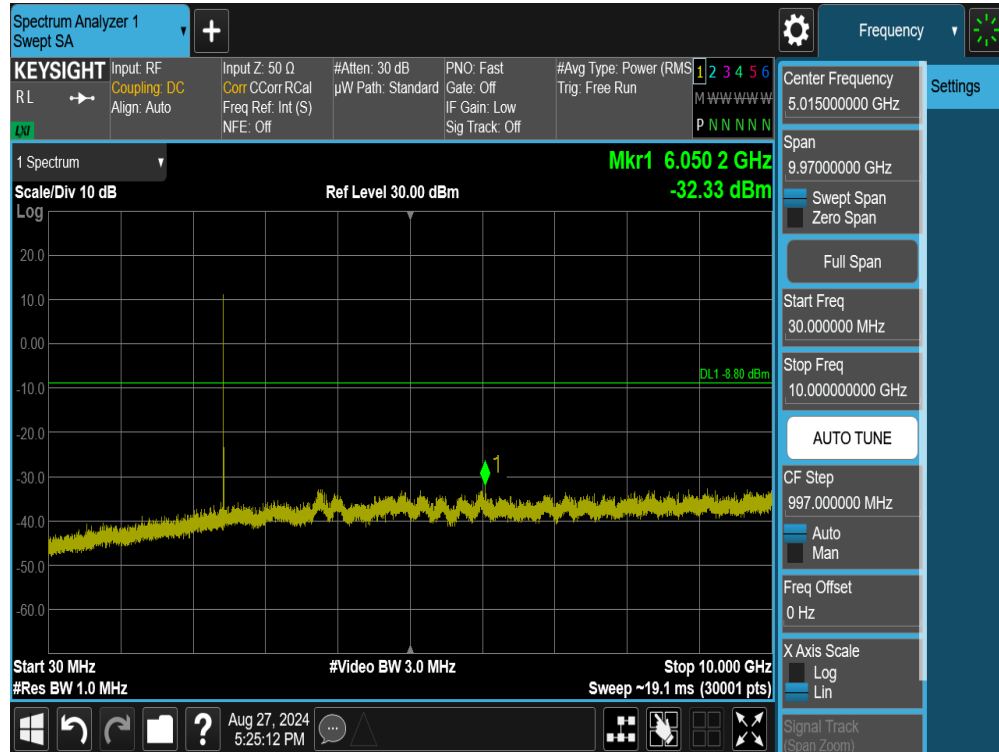


Plot 7-122. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant2

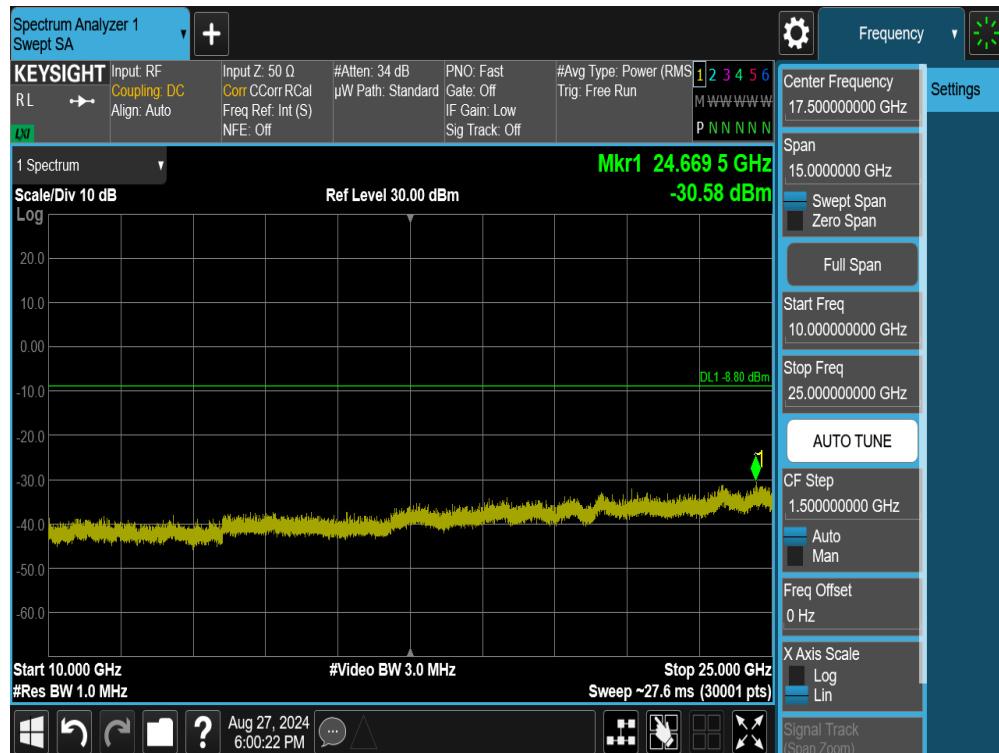
FCC ID: A3LNP750XQA	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-125. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 09) – Dual Ant1



Plot 7-126. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 09) – Dual Ant1

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