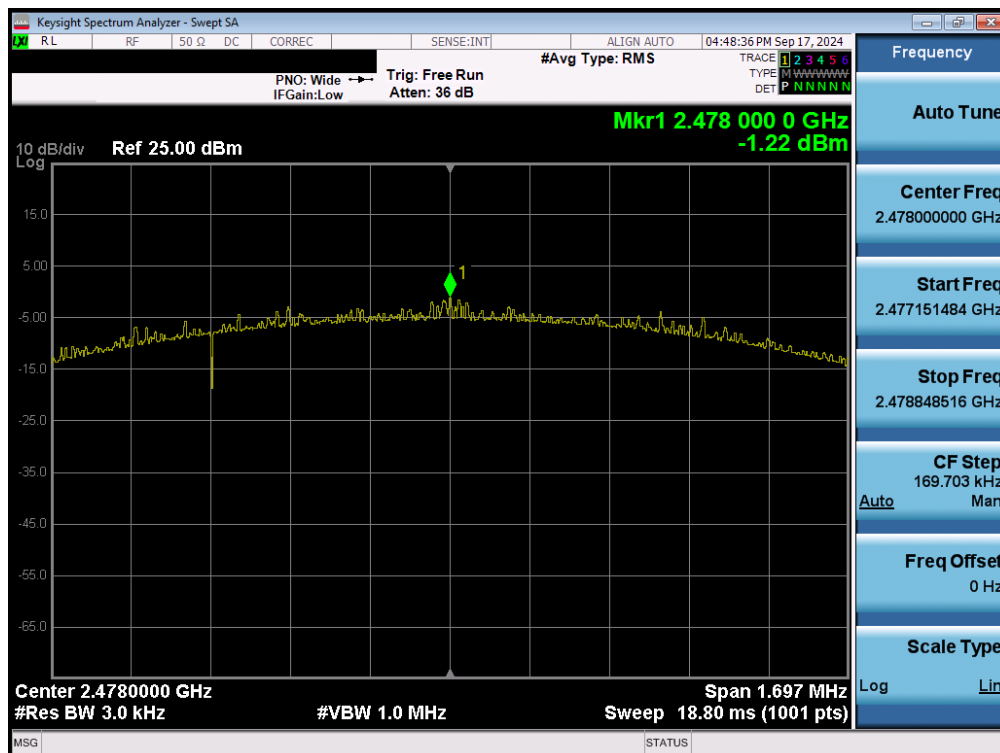
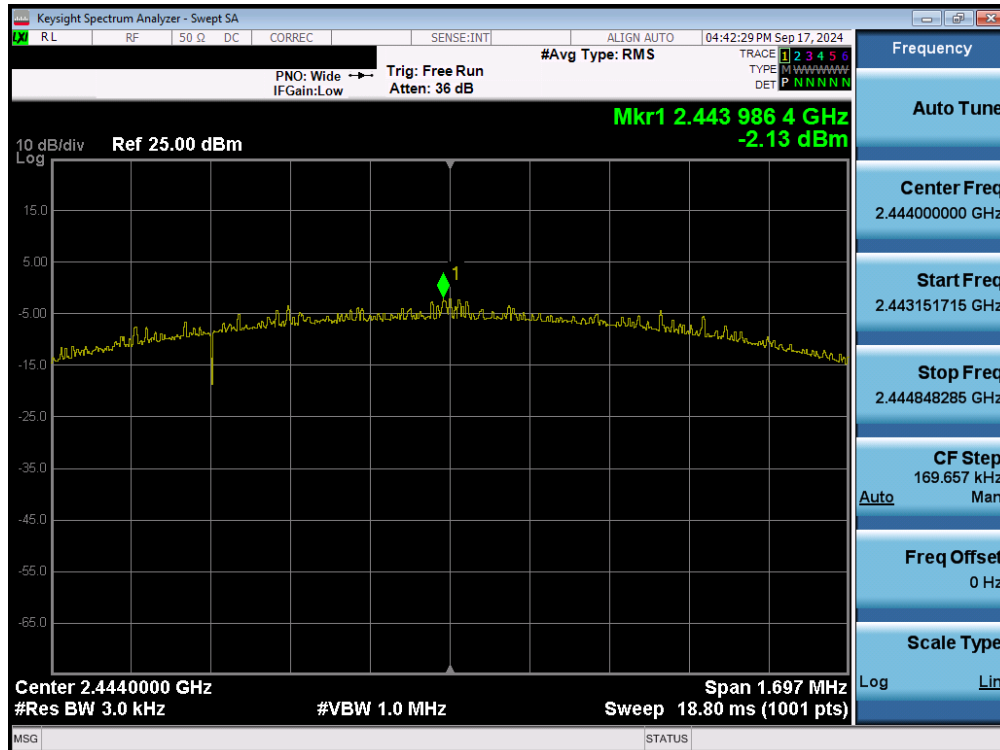


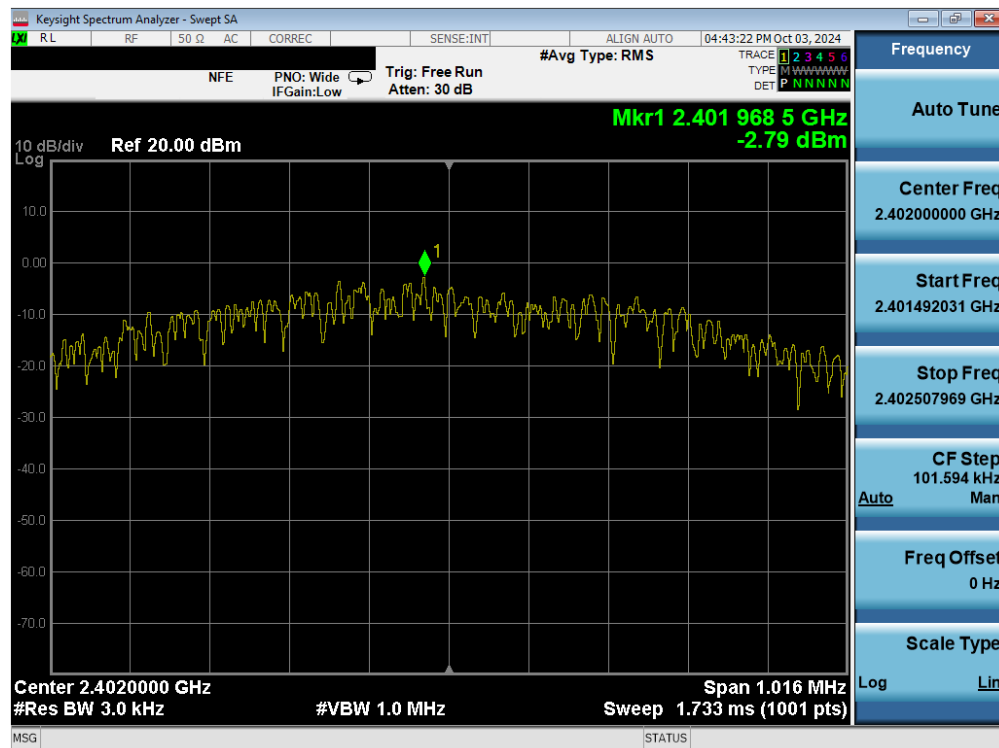
FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 72 of 130



FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 73 of 130

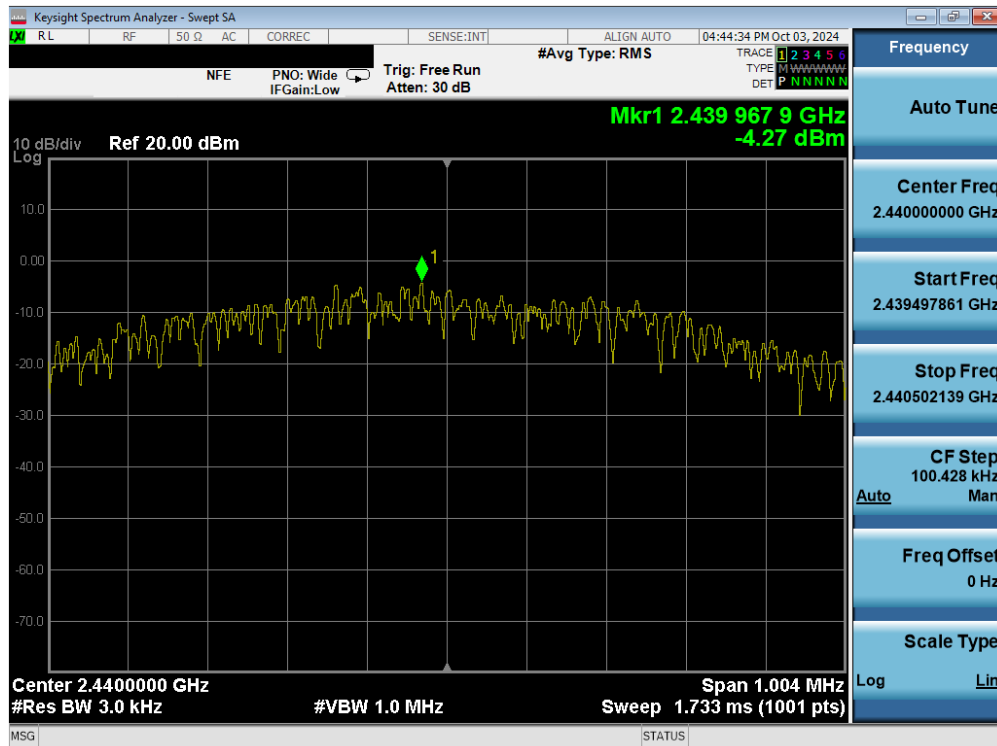
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Ant1 Power Spectral Density [dBm]	Ant2 Power Spectral Density [dBm]	MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	0	LE	-2.79	-3.41	-0.08	8.0	-8.08
2440	1 Mbps	19	LE	-4.27	-3.89	-1.07	8.0	-9.07
2480	1 Mbps	39	LE	-4.73	-4.59	-1.65	8.0	-9.65
2402	2 Mbps	1	LE	-5.47	-6.51	-2.95	8.0	-10.95
2440	2 Mbps	19	LE	-6.55	-6.61	-3.57	8.0	-11.57
2480	2 Mbps	38	LE	-6.91	-7.31	-4.10	8.0	-12.10

Table 7-14. Conducted Power Density Measurements – Dual

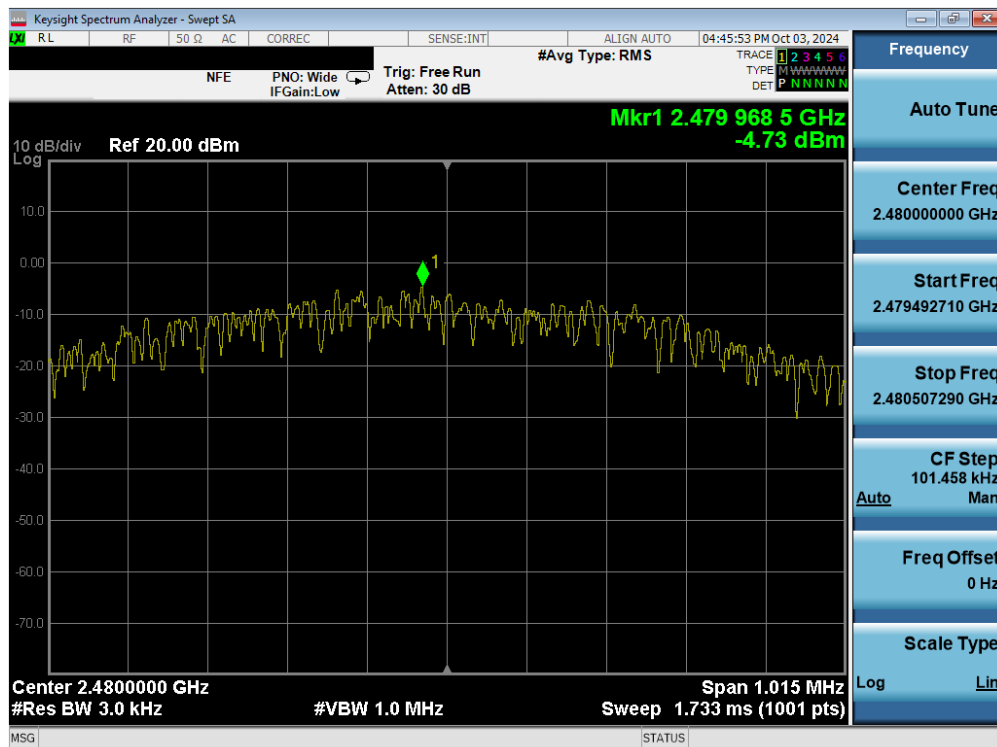


Plot 7-99. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 74 of 130

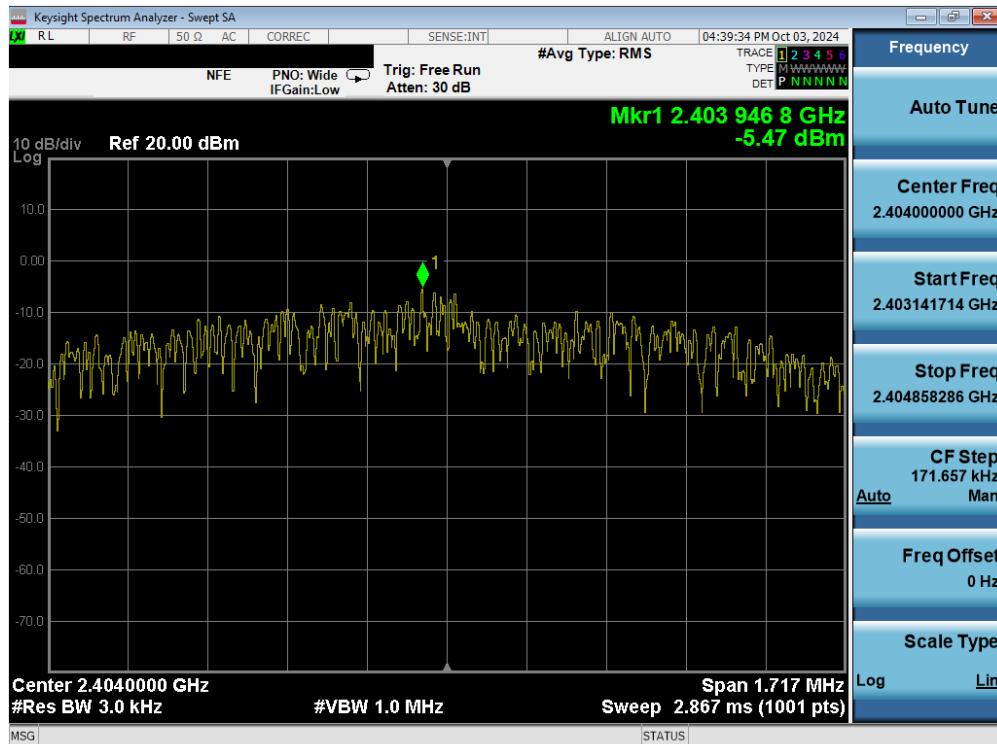


Plot 7-100. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 1

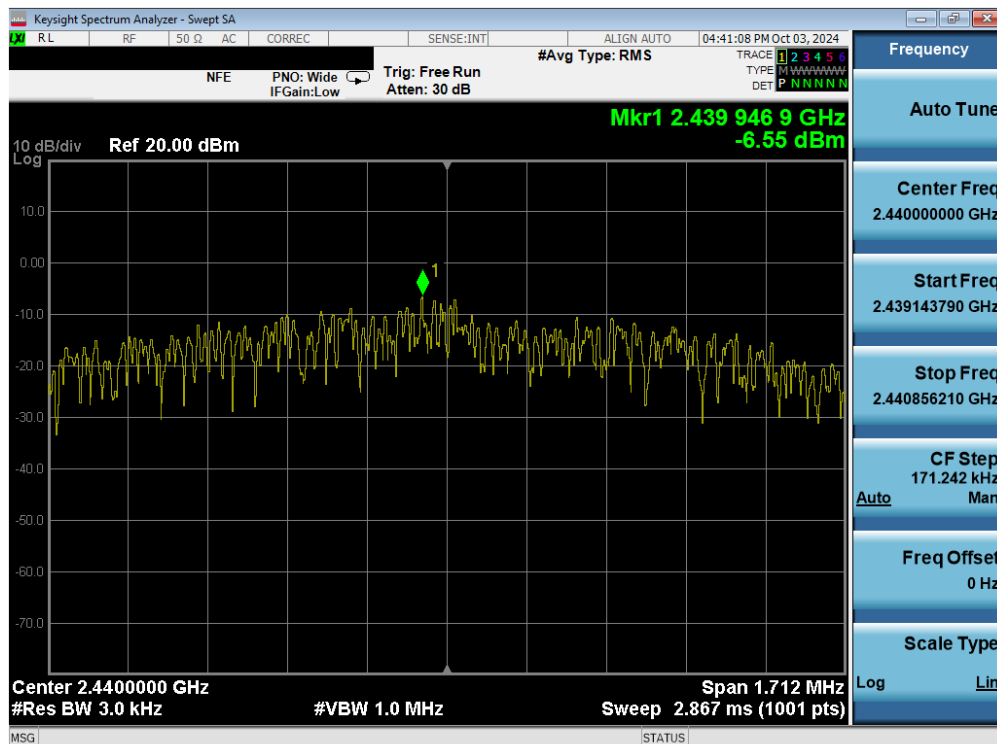


Plot 7-101. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 75 of 130

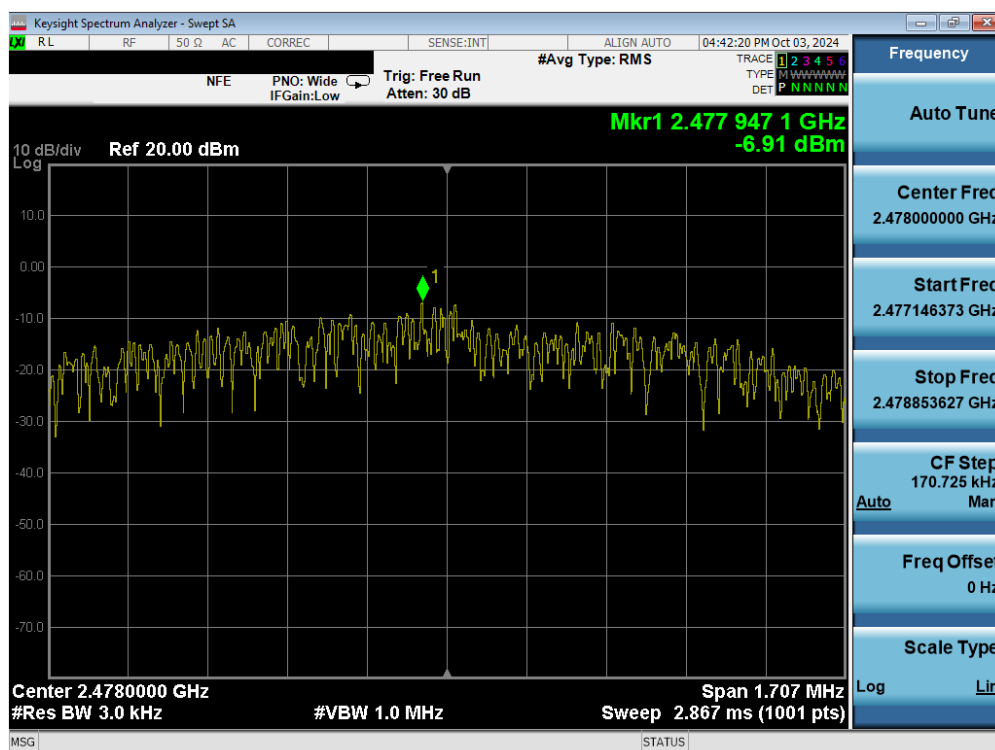


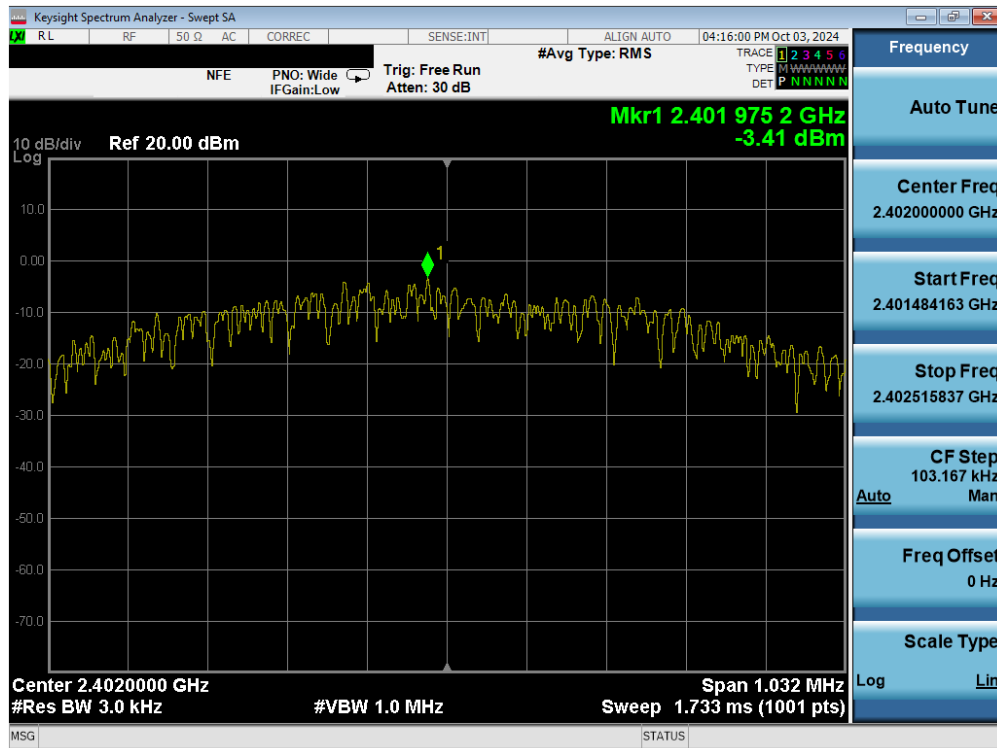
Plot 7-102. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 1) – Dual Ant 1



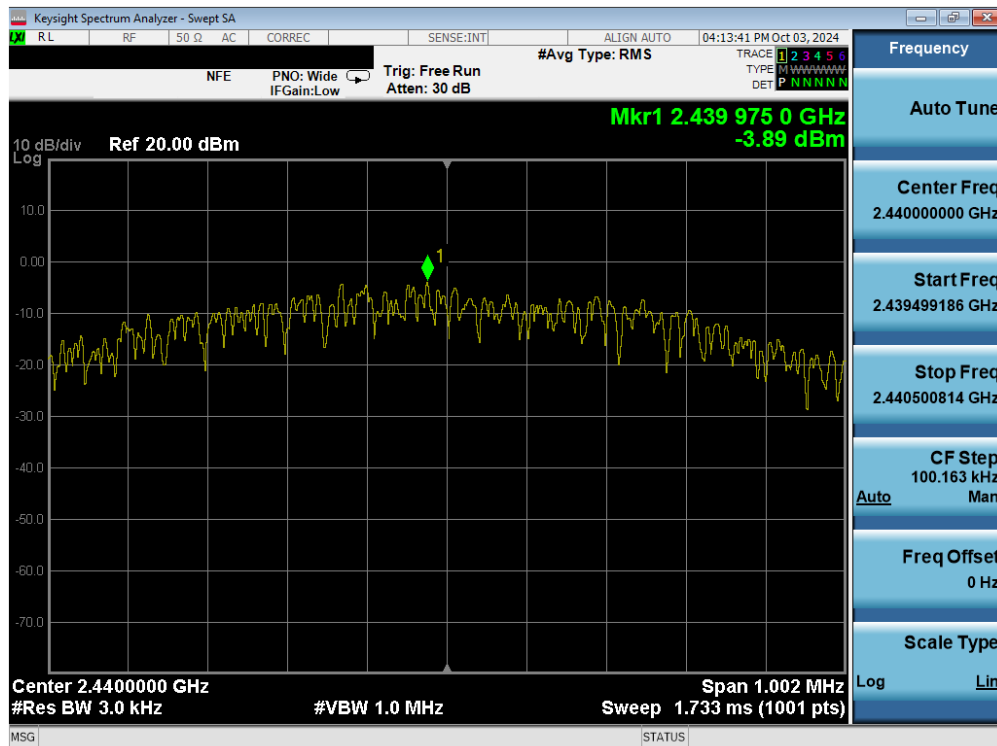
Plot 7-103. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 19) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 76 of 130



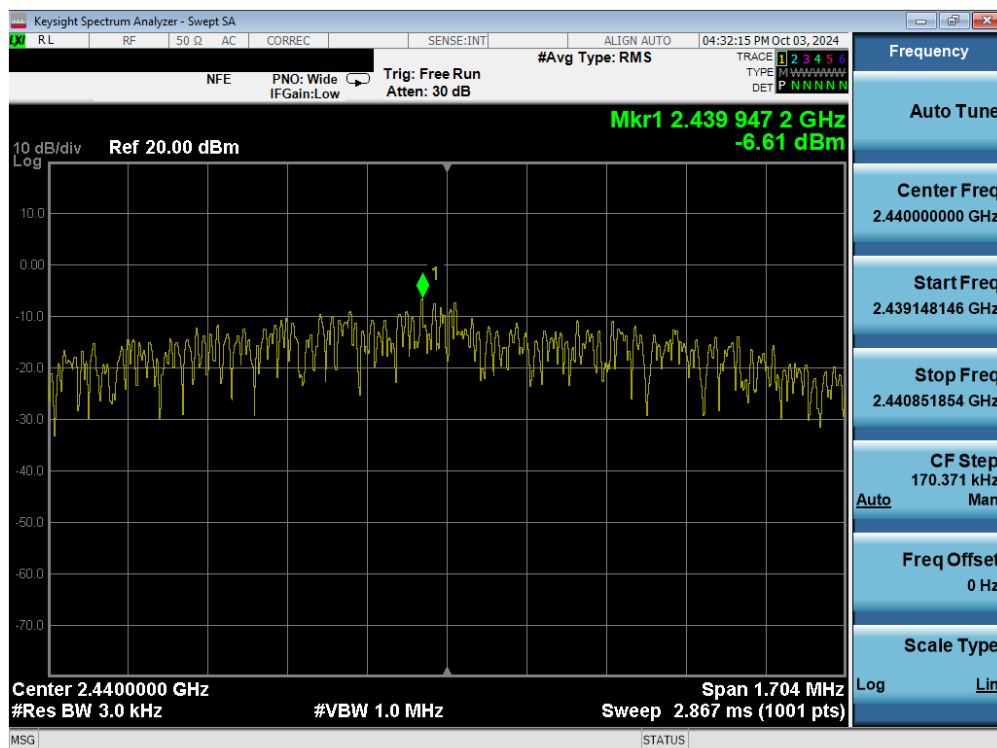


Plot 7-105. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 2

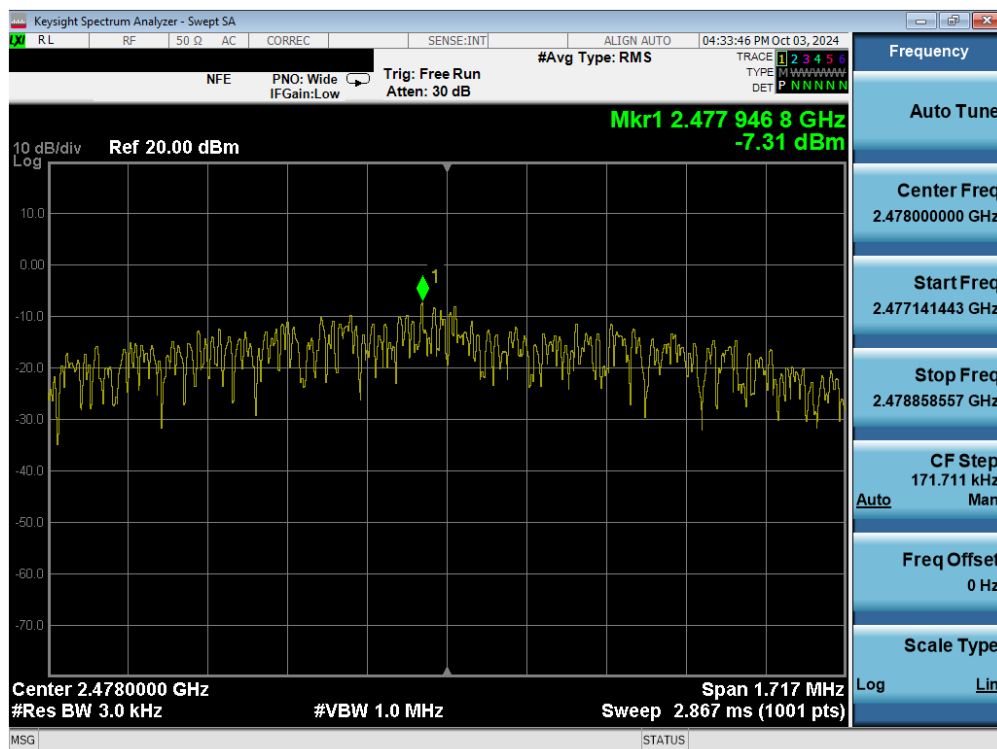


Plot 7-106. Power Spectral Density Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 78 of 130



Plot 7-109. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 19) – Dual Ant 2



Plot 7-110. Power Spectral Density Plot (Bluetooth (LE), 2Mbps – Ch. 38) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 80 of 130

7.5 Conducted Emissions at the Band Edge

§15.247(d); RSS-247 [5.5]

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
KDB 558074 D01 v05r02 – Section 8.7.2

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.

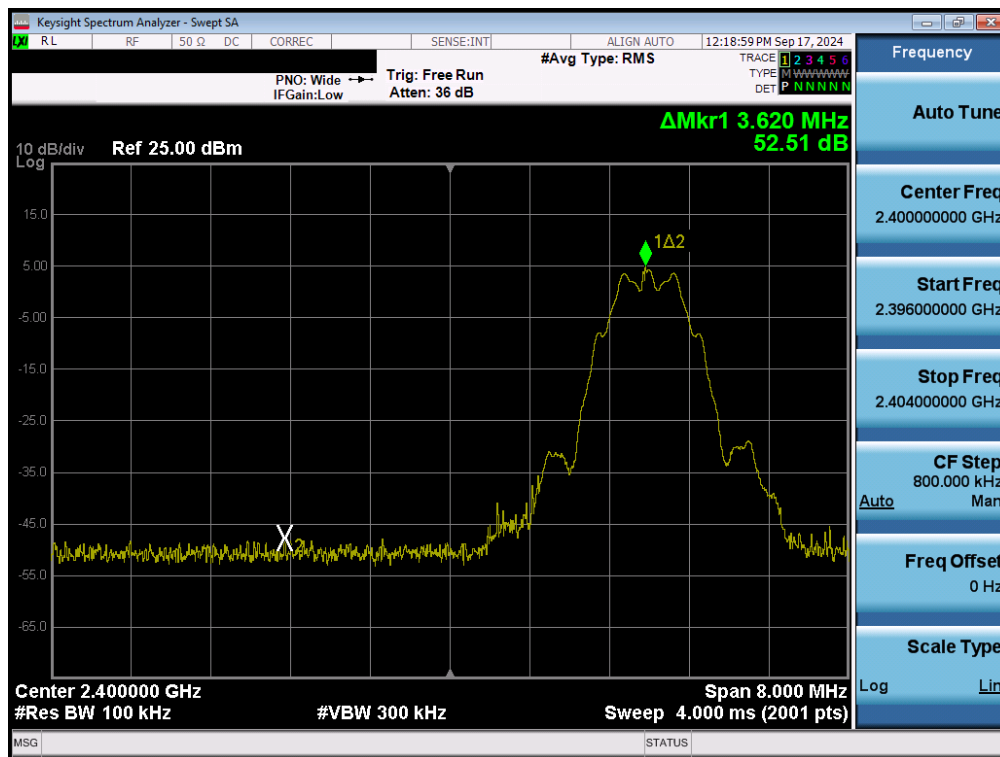


Figure 7-4. Test Instrument & Measurement Setup

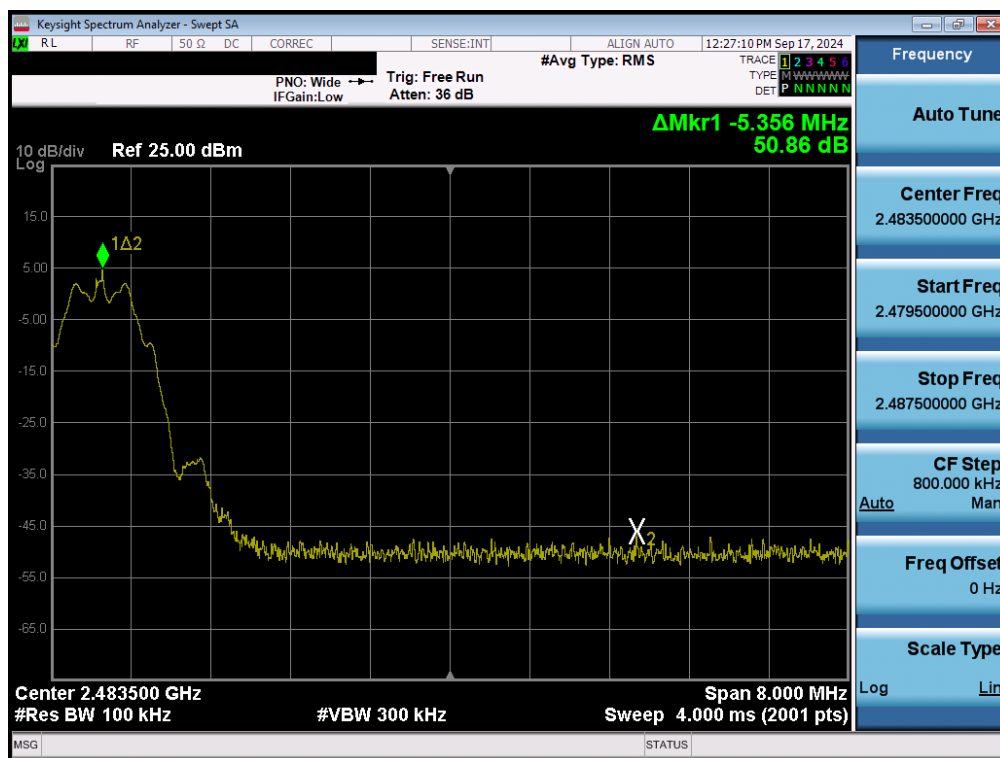
Test Notes

None

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 81 of 130

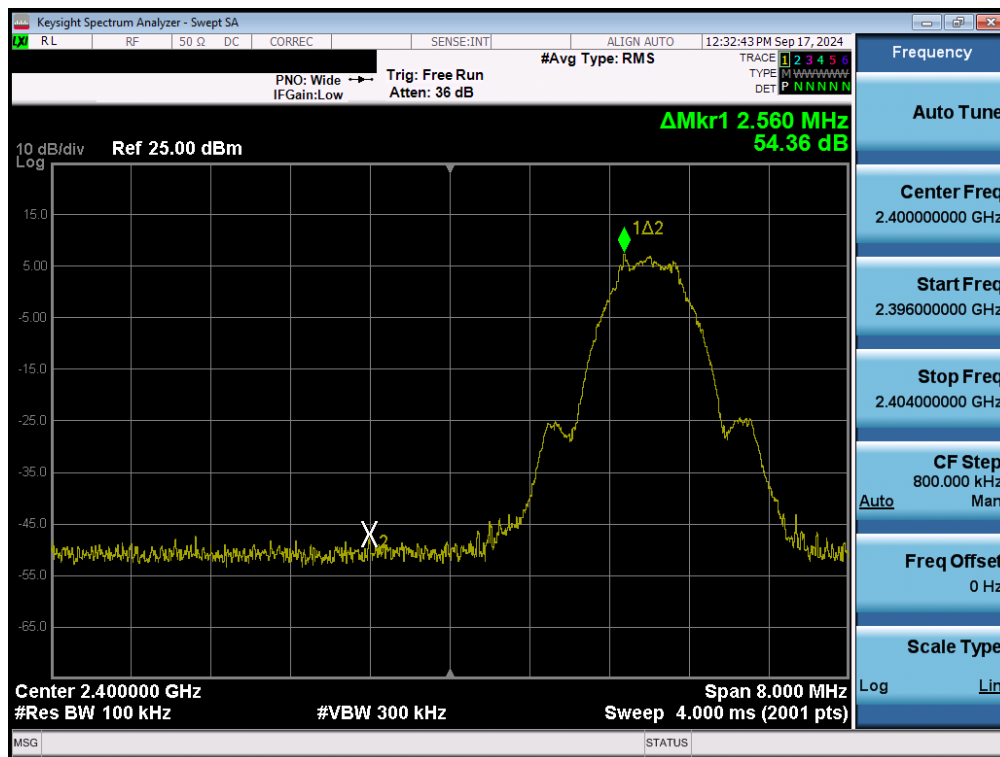


Plot 7-111. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 0) – Ant 1

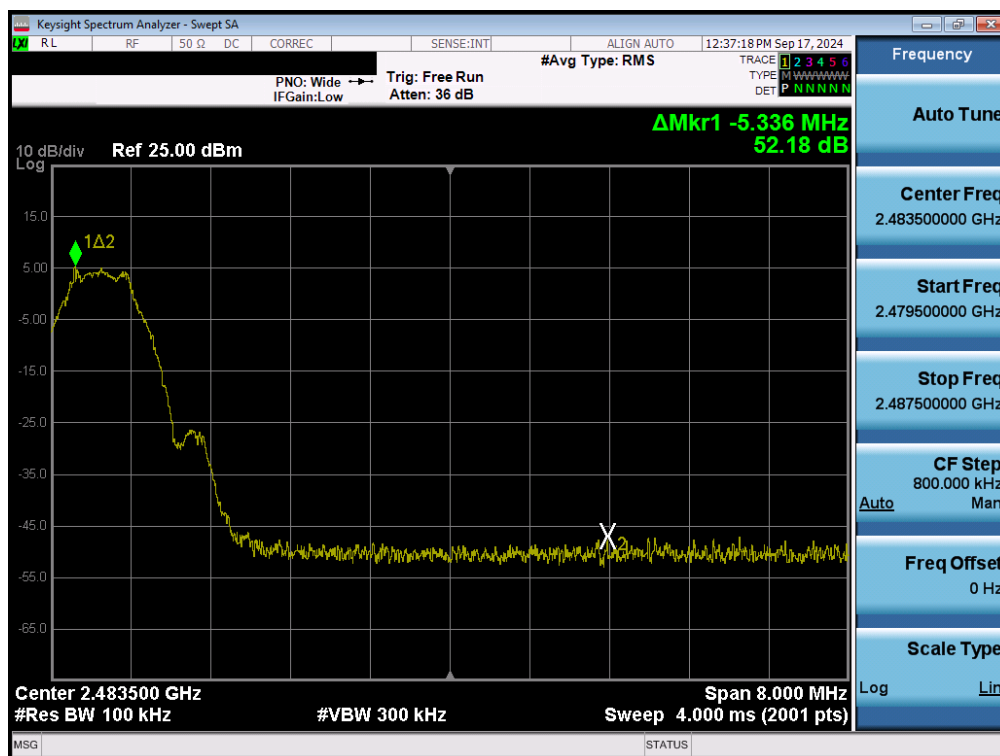


Plot 7-112. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 82 of 130

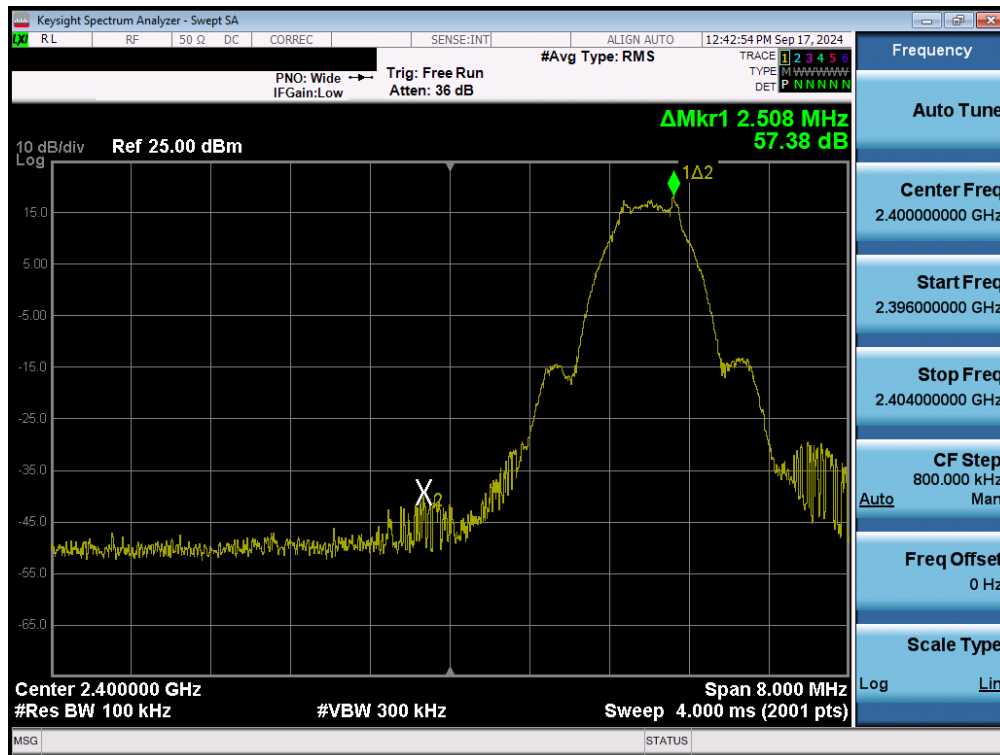


Plot 7-113. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 0) – Ant 1

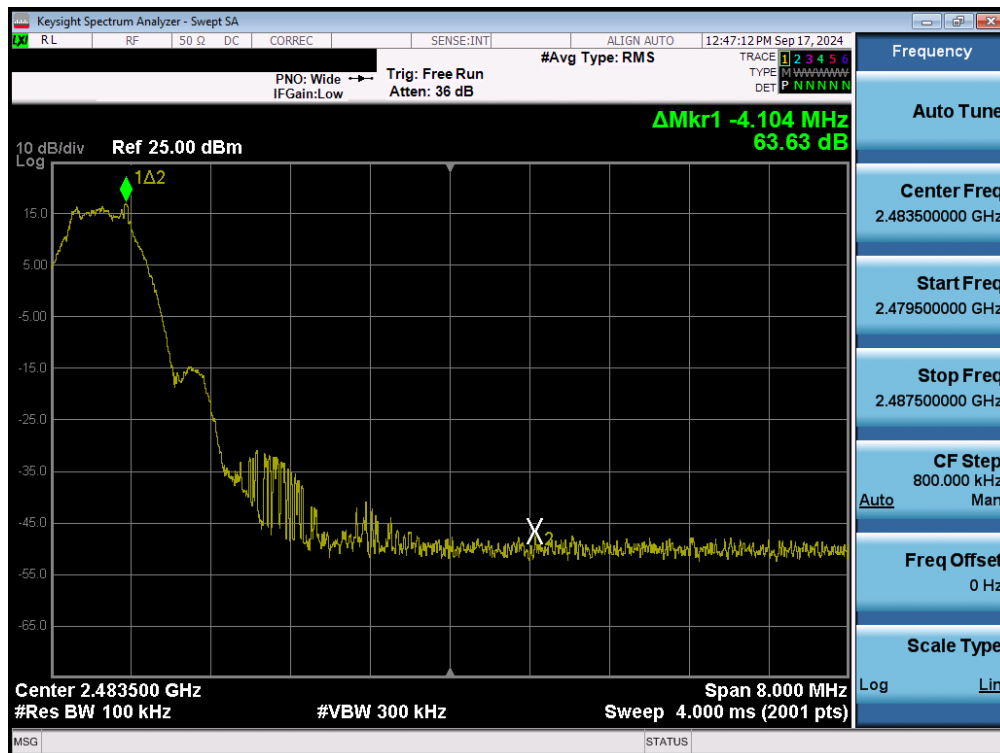


Plot 7-114. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 83 of 130

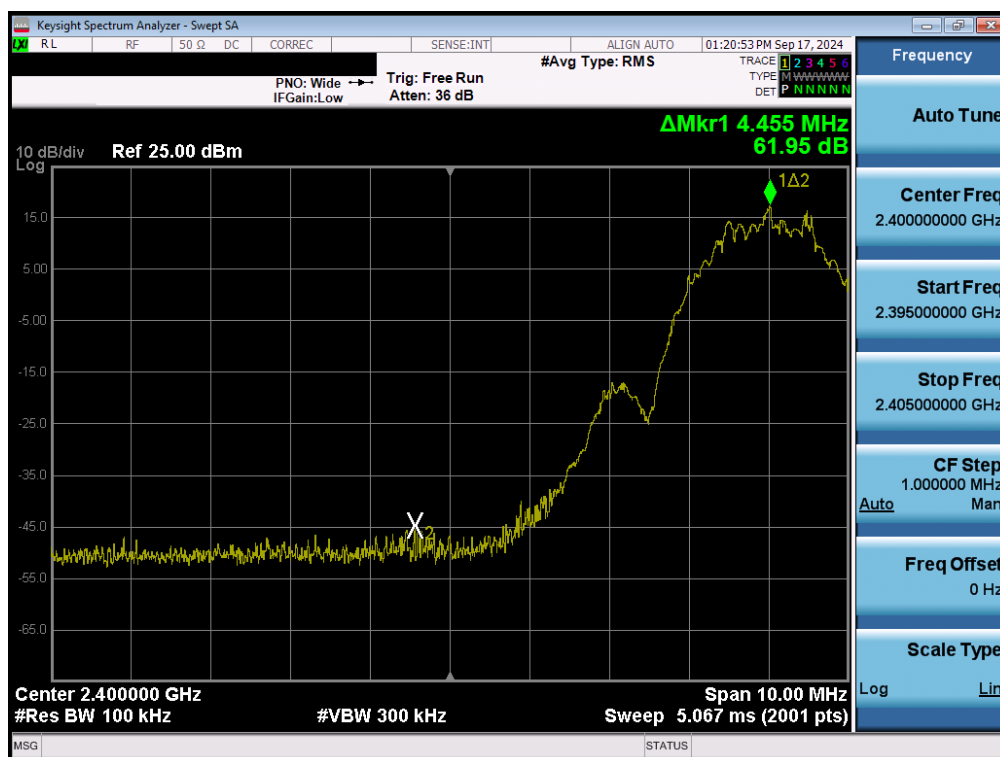


Plot 7-115. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant 1

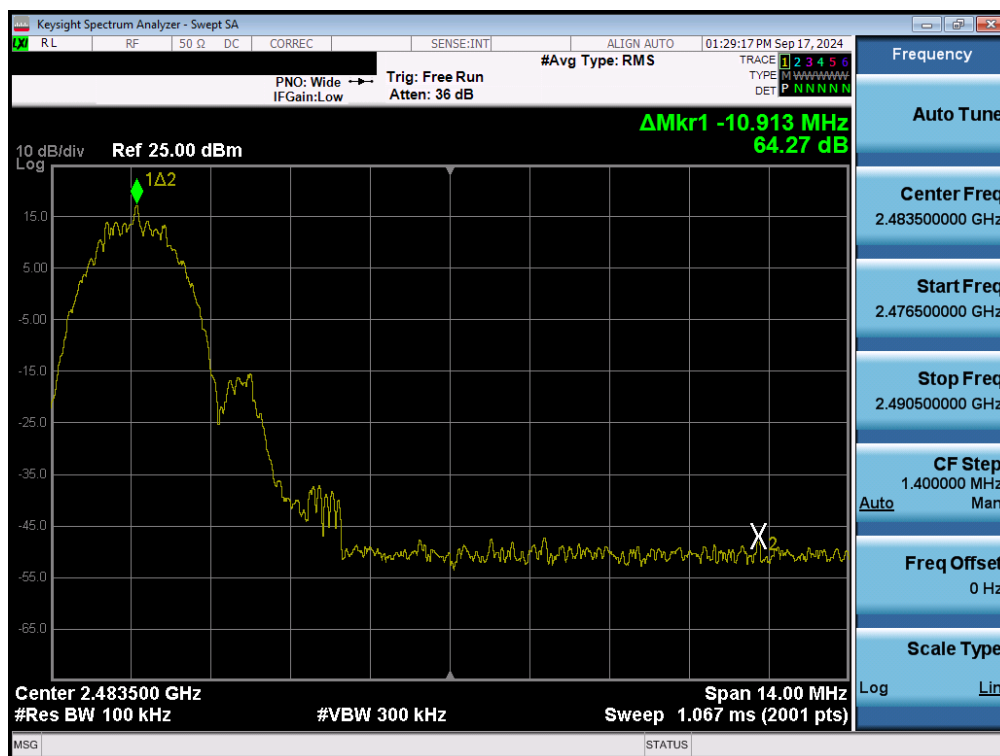


Plot 7-116. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 84 of 130

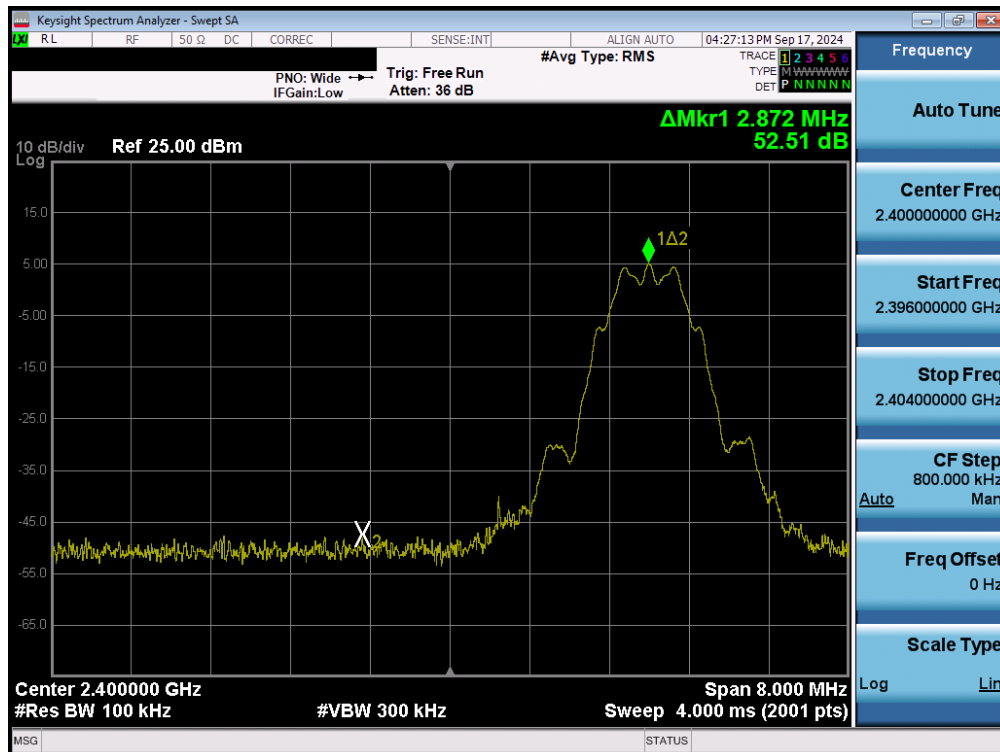


Plot 7-117. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 1

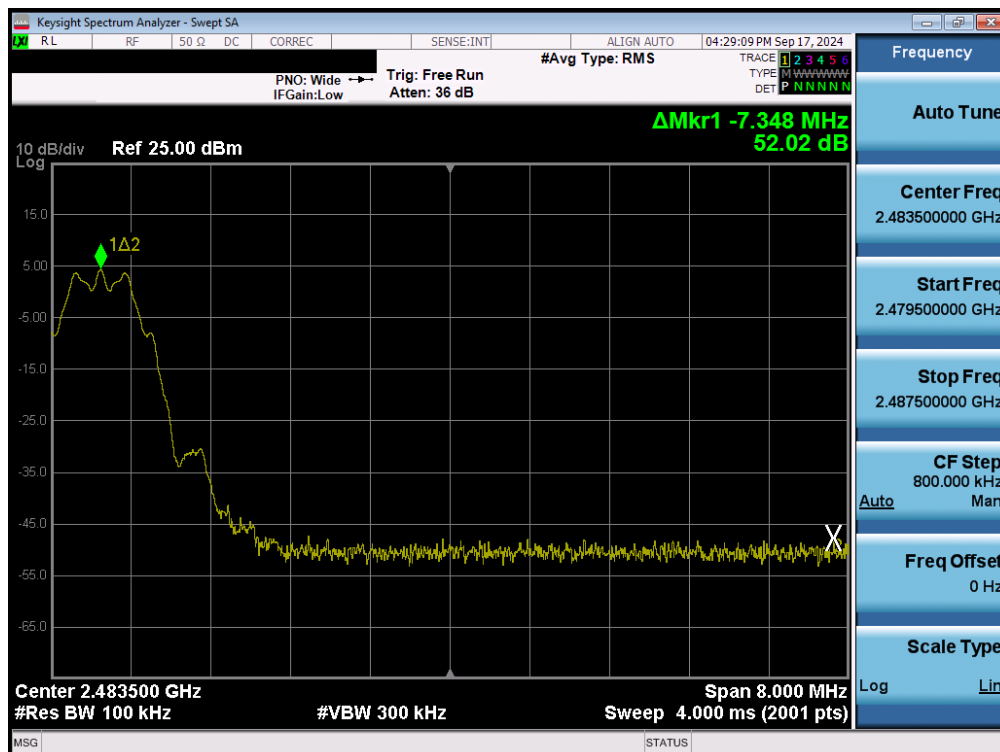


Plot 7-118. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 85 of 130

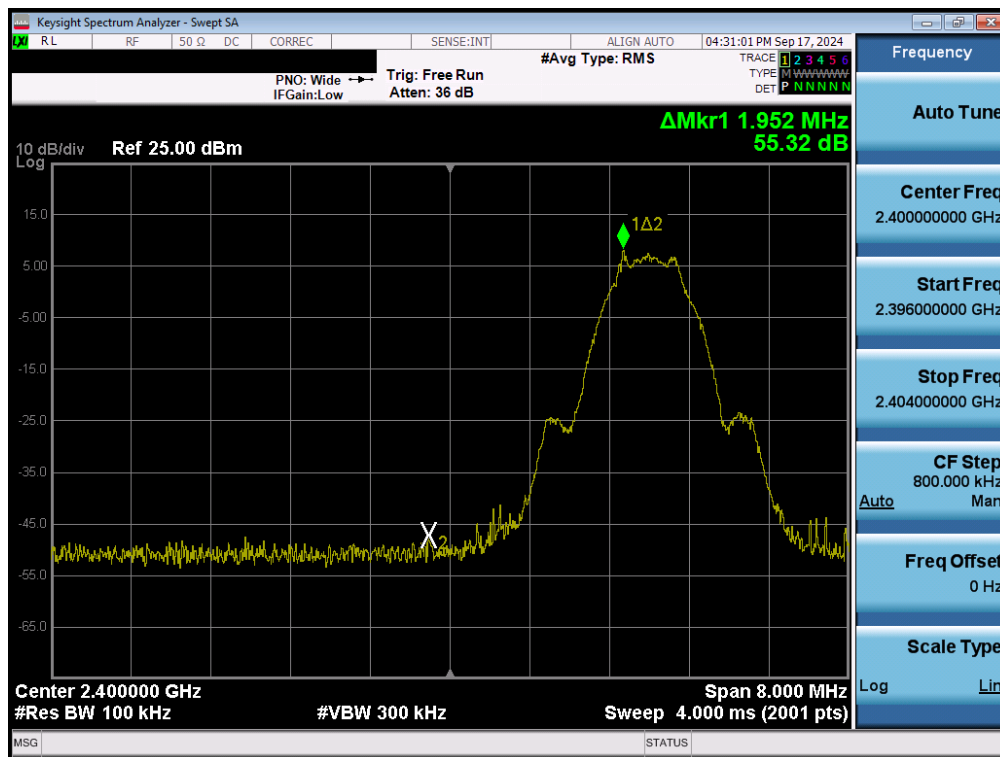


Plot 7-119. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 0) – Ant 2

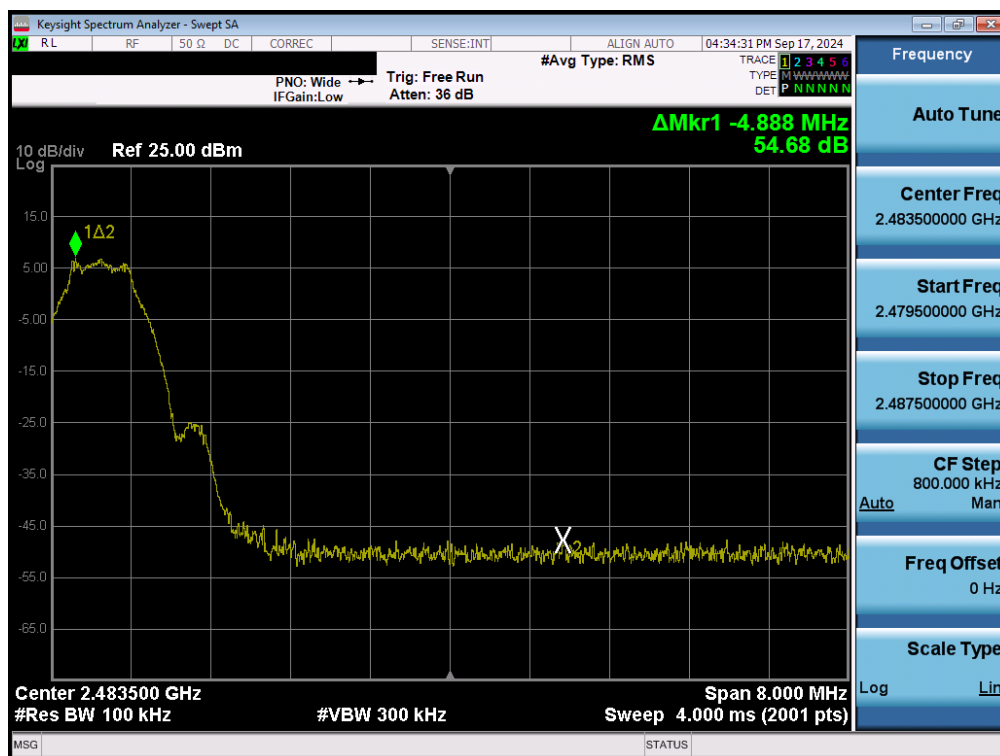


Plot 7-120. Band Edge Plot (Bluetooth (LE), 125kbps – Ch. 39) – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 86 of 130

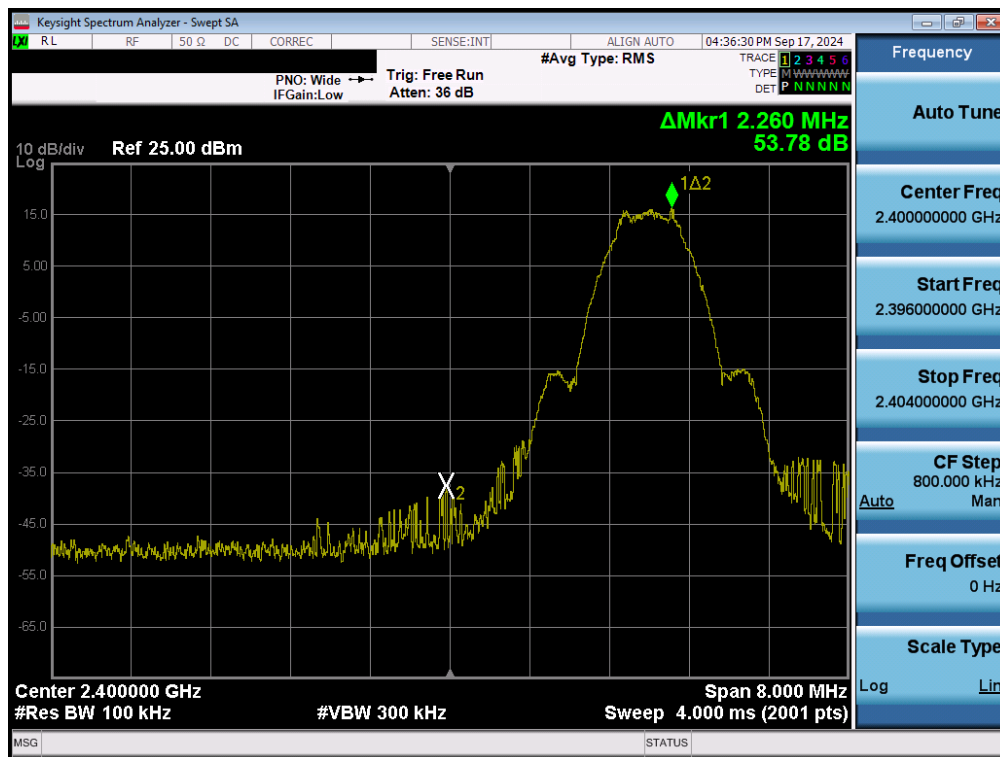


Plot 7-121. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 0) – Ant 2

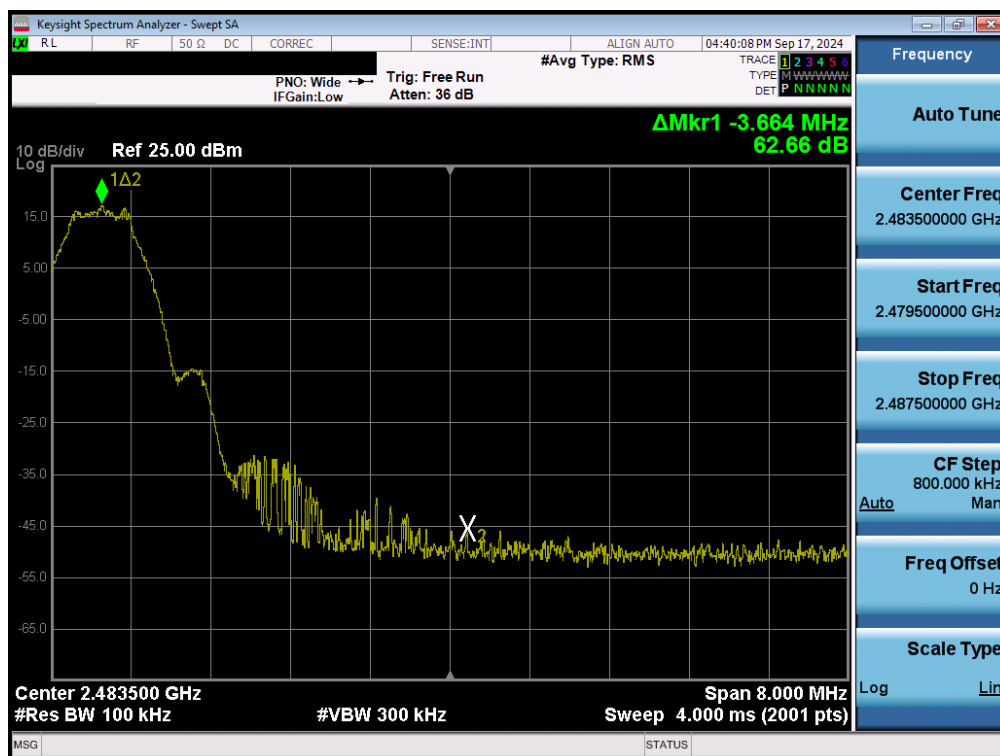


Plot 7-122. Band Edge Plot (Bluetooth (LE), 500kbps – Ch. 39) – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 87 of 130

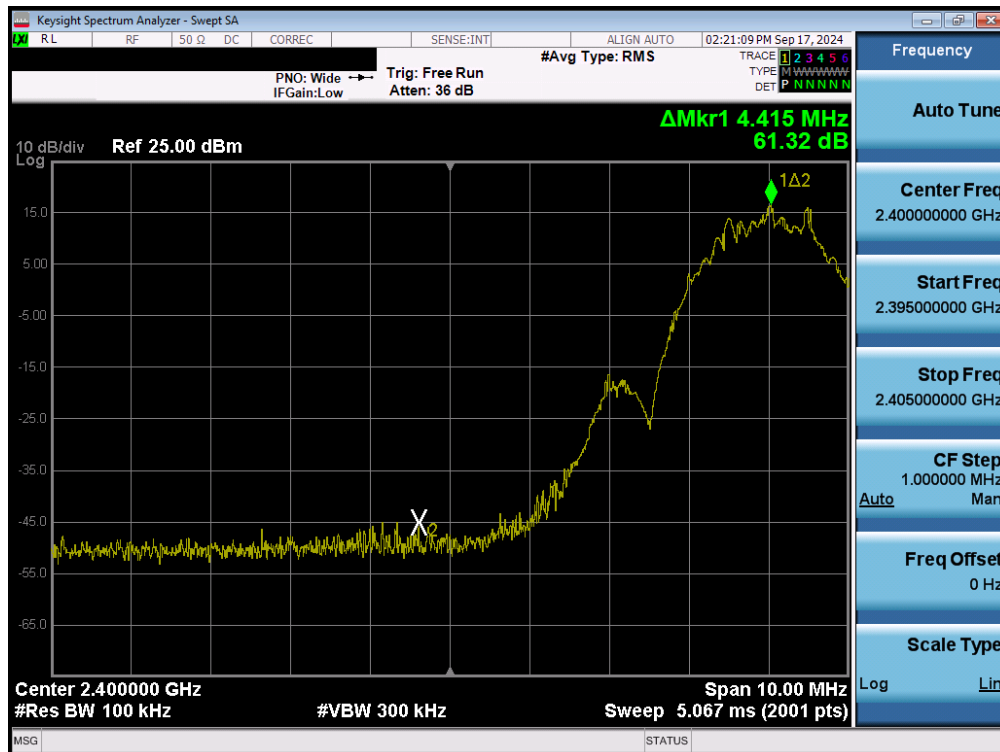


Plot 7-123. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant 2

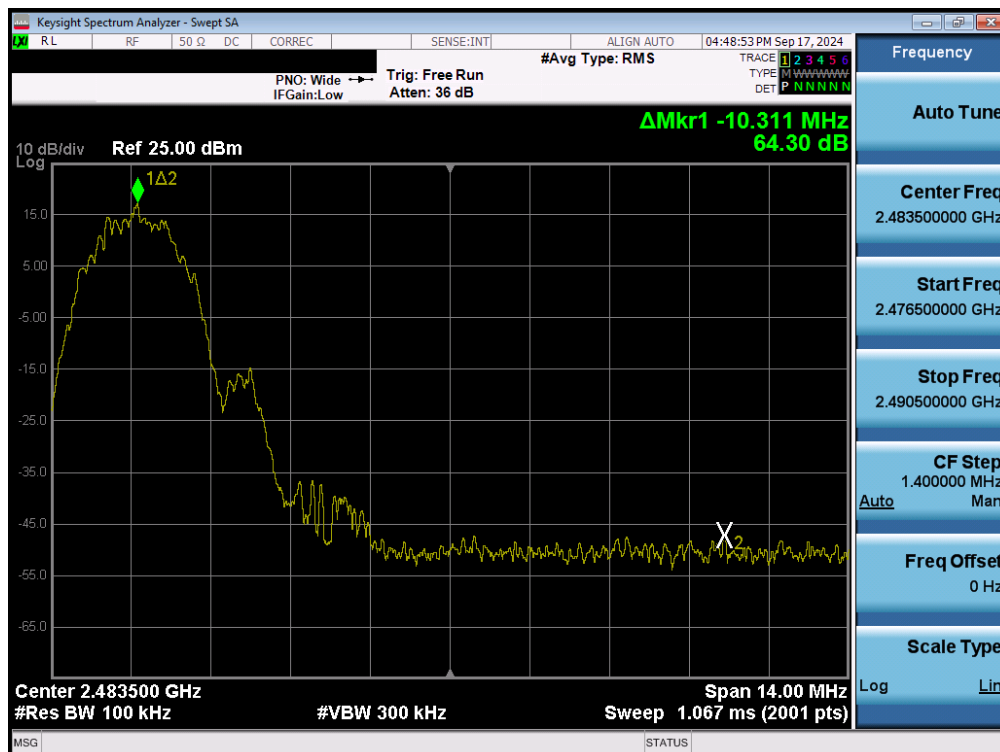


Plot 7-124. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 88 of 130

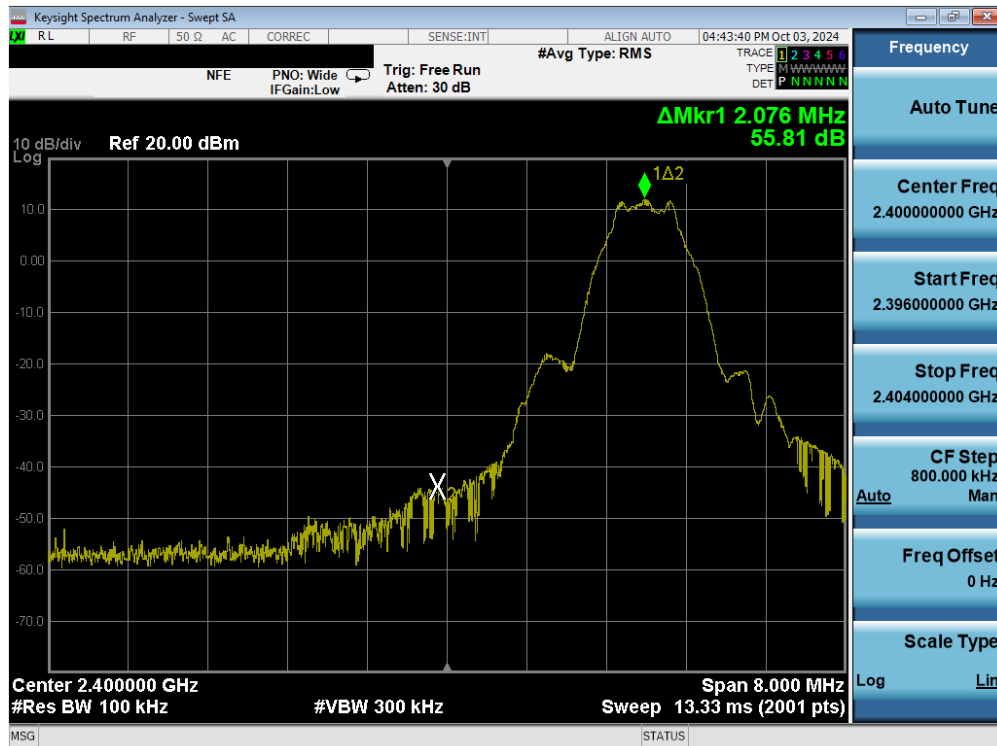


Plot 7-125. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 0) – Ant 2

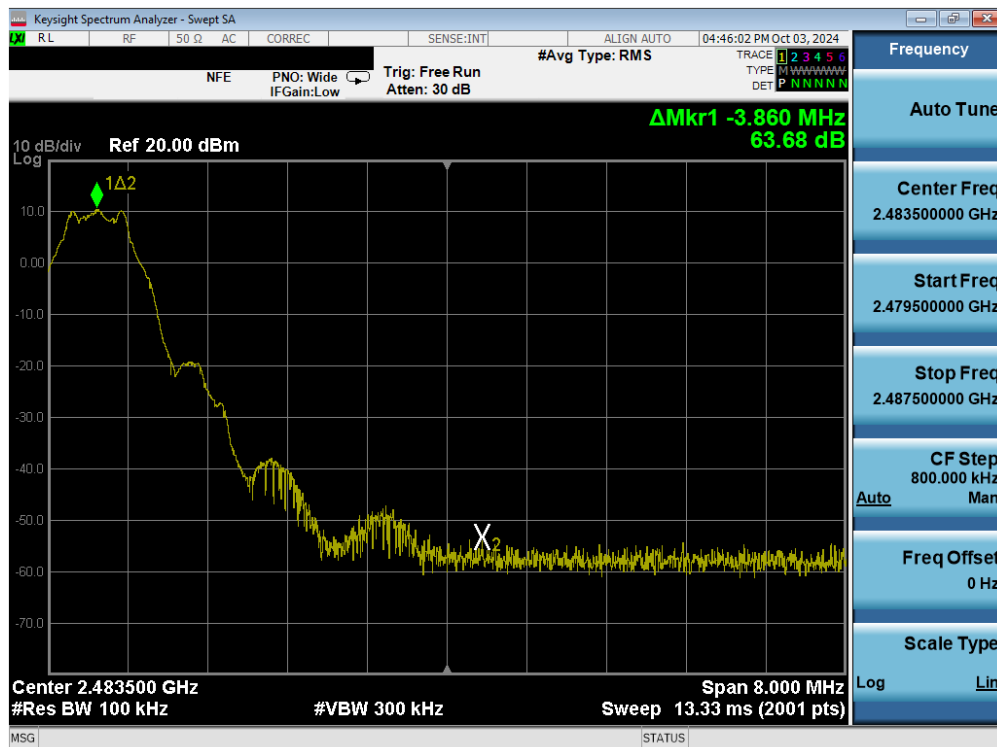


Plot 7-126. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 39) – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 89 of 130

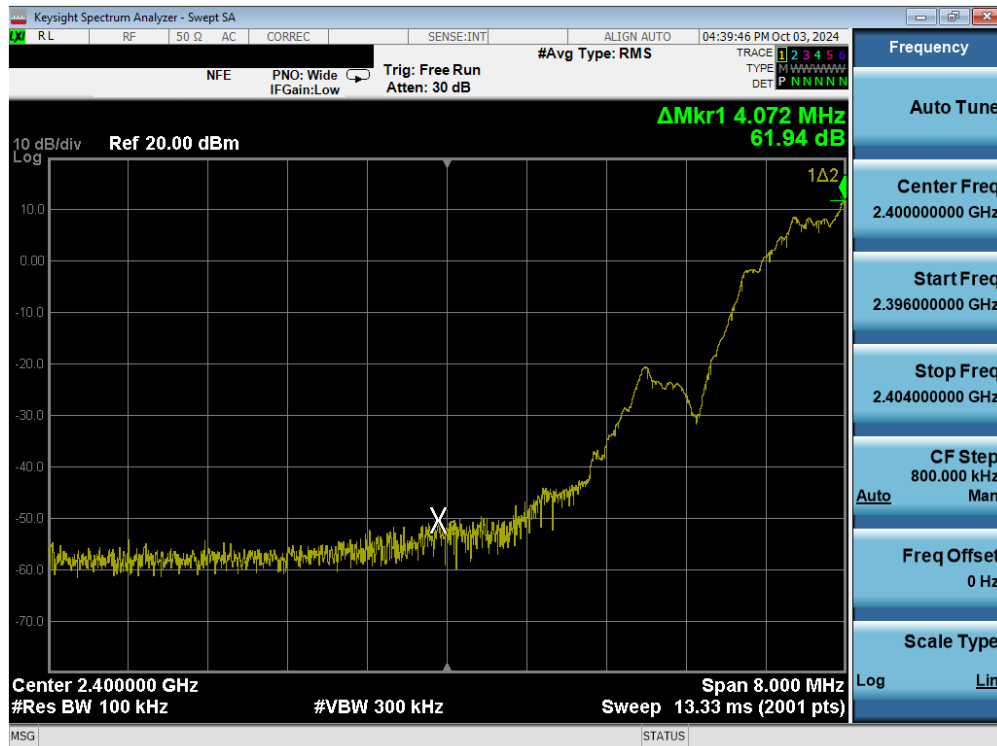


Plot 7-127. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 1

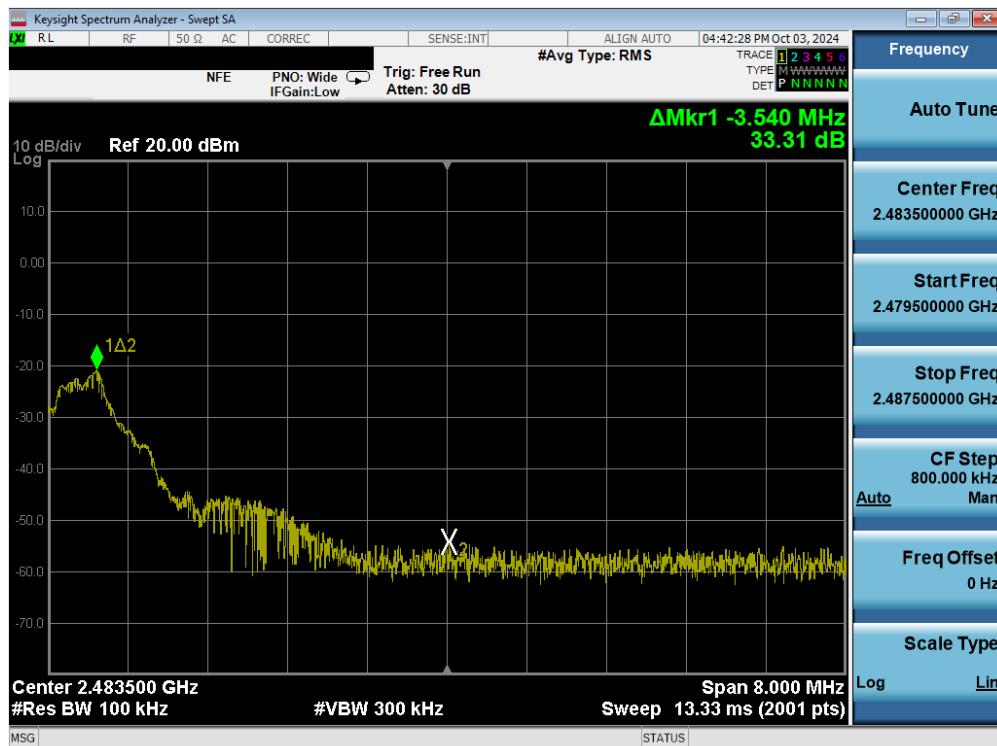


Plot 7-128. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 90 of 130

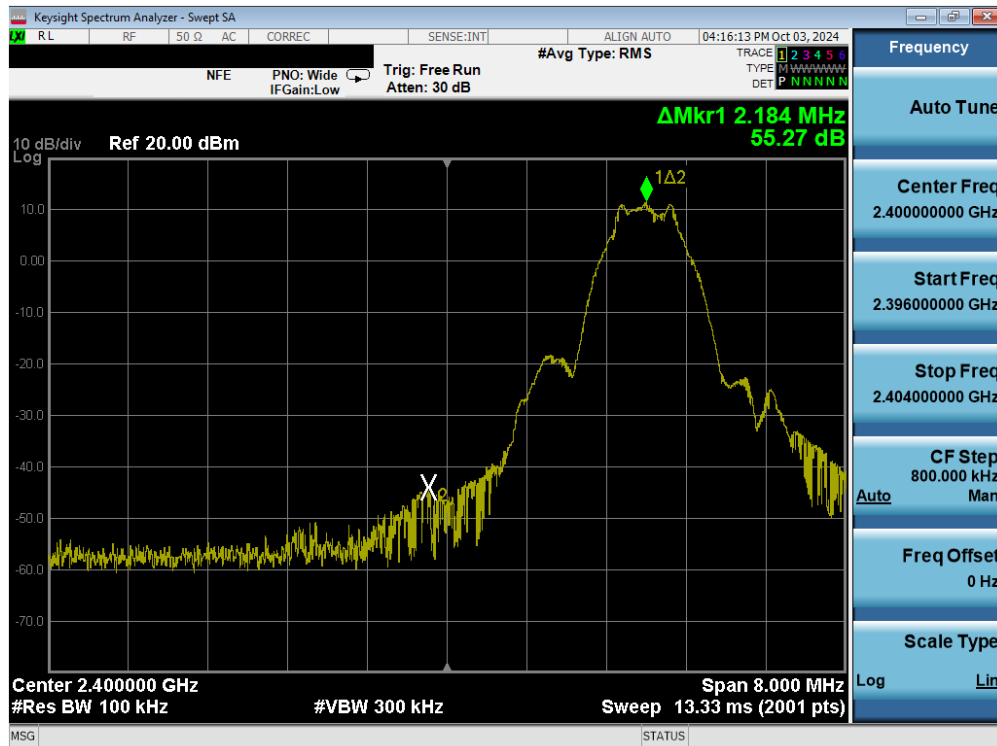


Plot 7-129. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 1) – Dual Ant 1

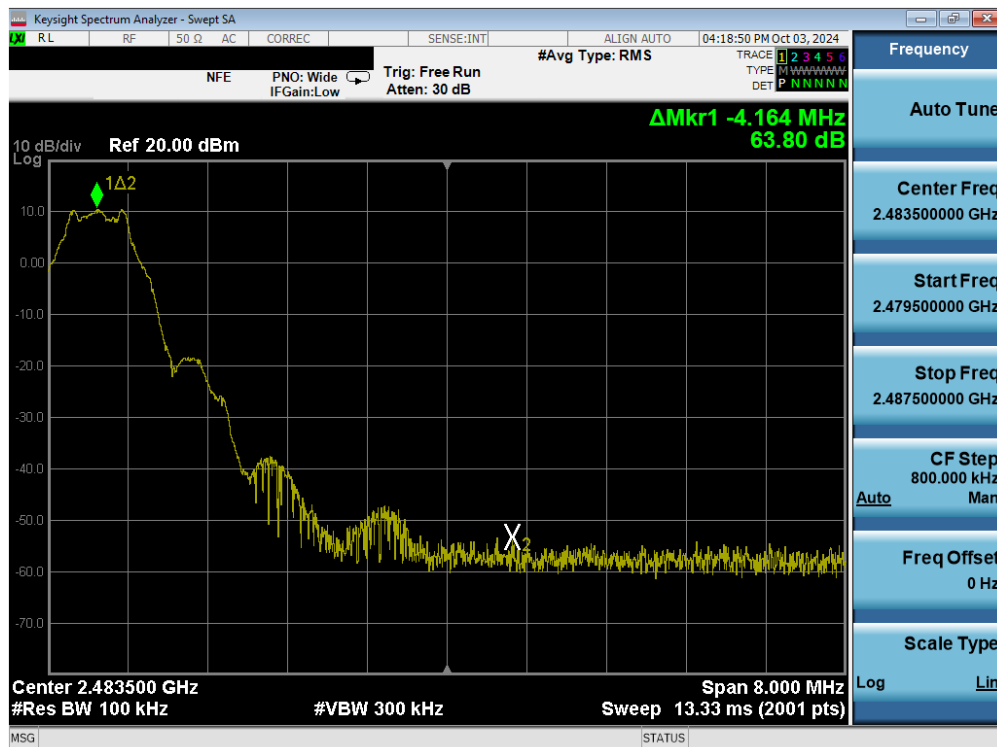


Plot 7-130. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 38) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 91 of 130

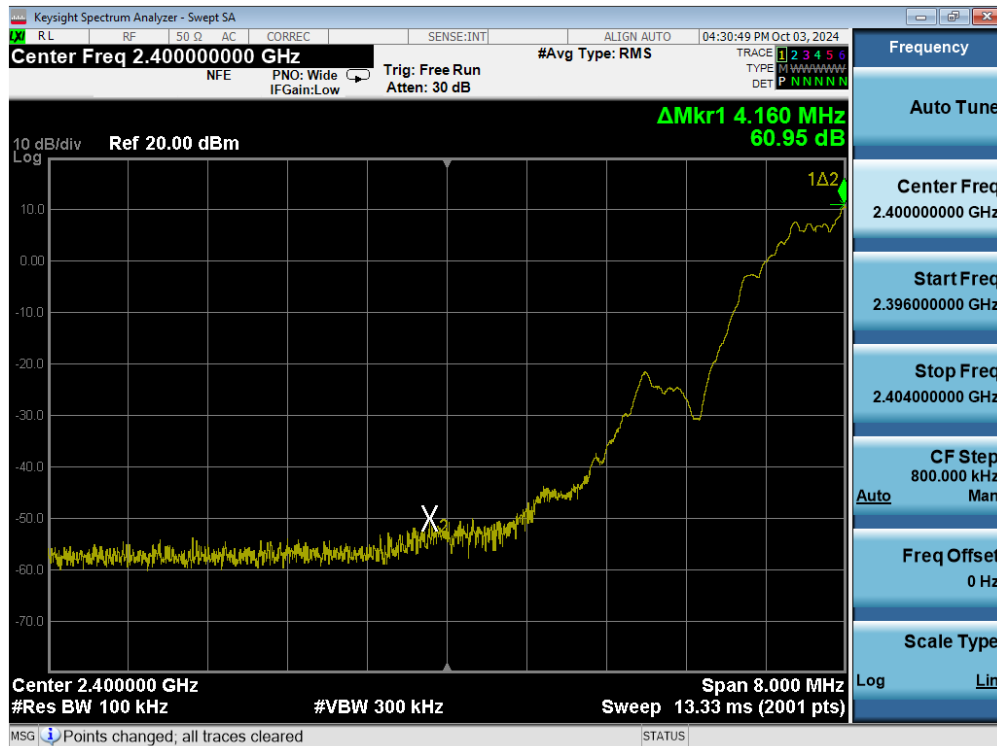


Plot 7-131. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 2

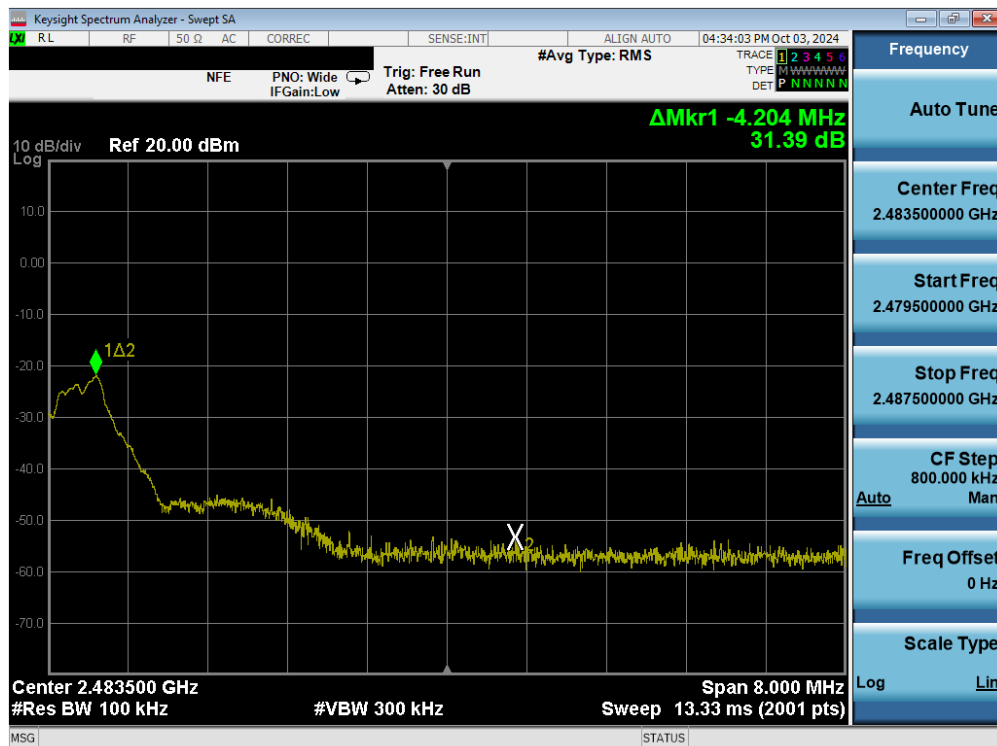


Plot 7-132. Band Edge Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 92 of 130



Plot 7-133. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 1) – Dual Ant 2



Plot 7-134. Band Edge Plot (Bluetooth (LE), 2Mbps – Ch. 38) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 93 of 130

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

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 8.5 of KDB 558074 D01 v05r02 and Section 11.11.3 of ANSI C63.10-2013.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05r02 – Section 8.5

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.



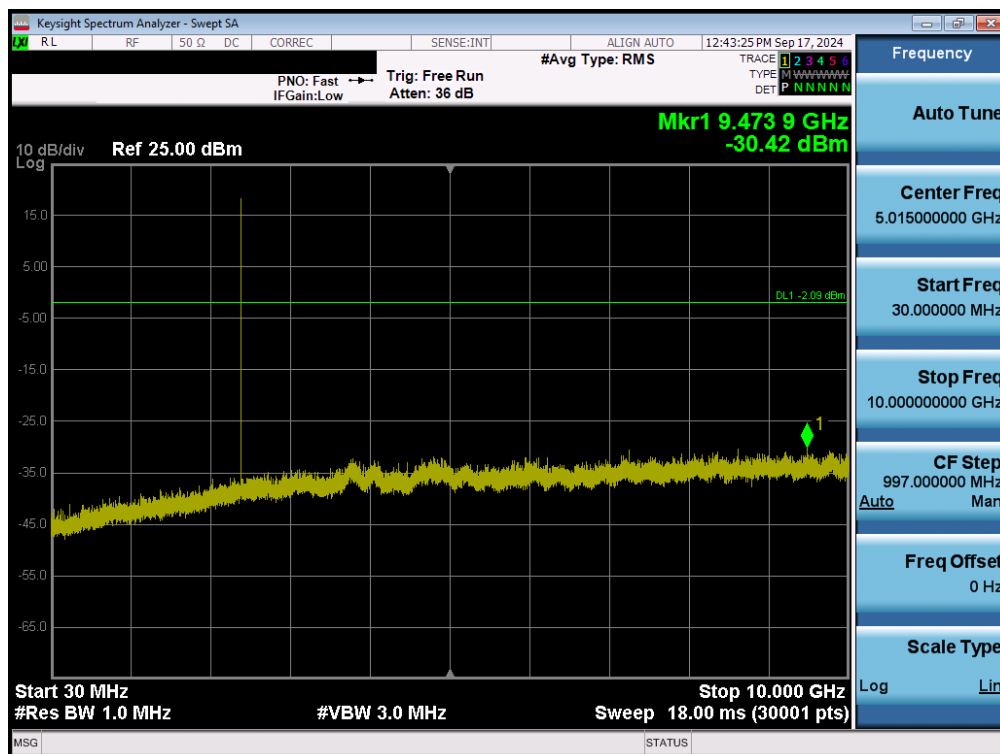
Figure 7-5. Test Instrument & Measurement Setup

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 94 of 130

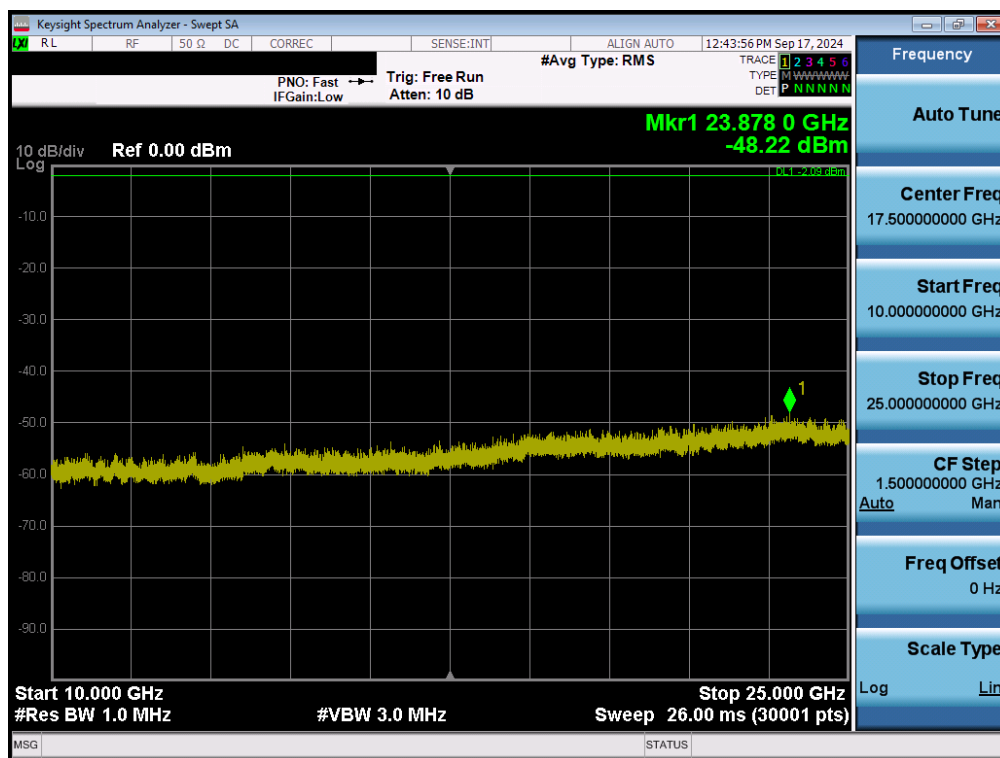
Test Notes

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: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 95 of 130

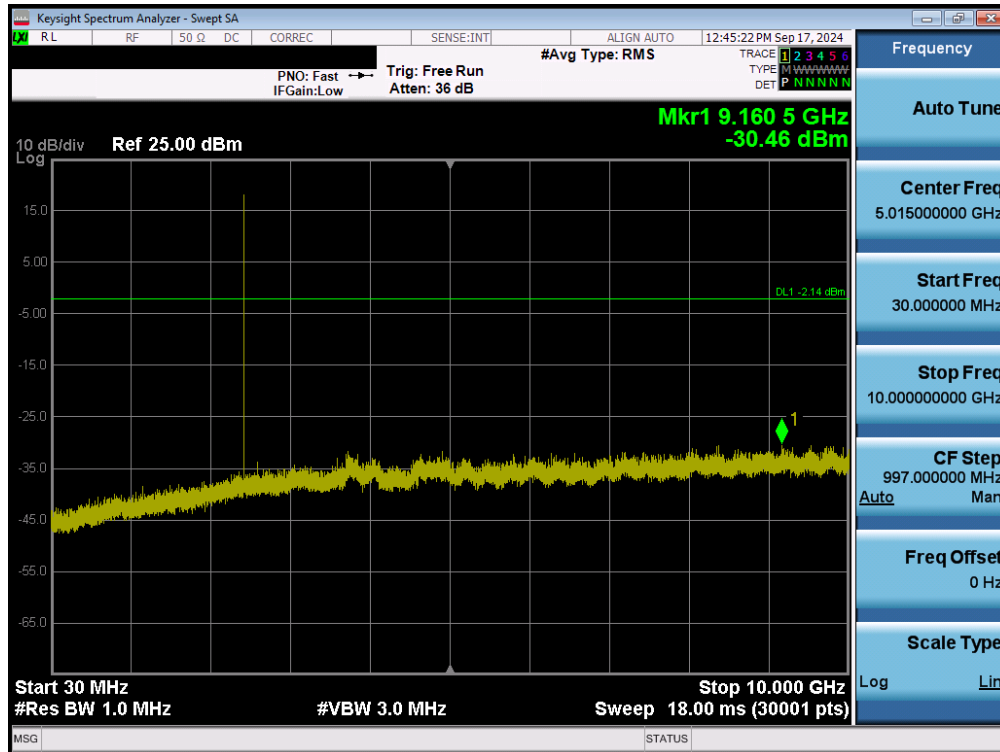


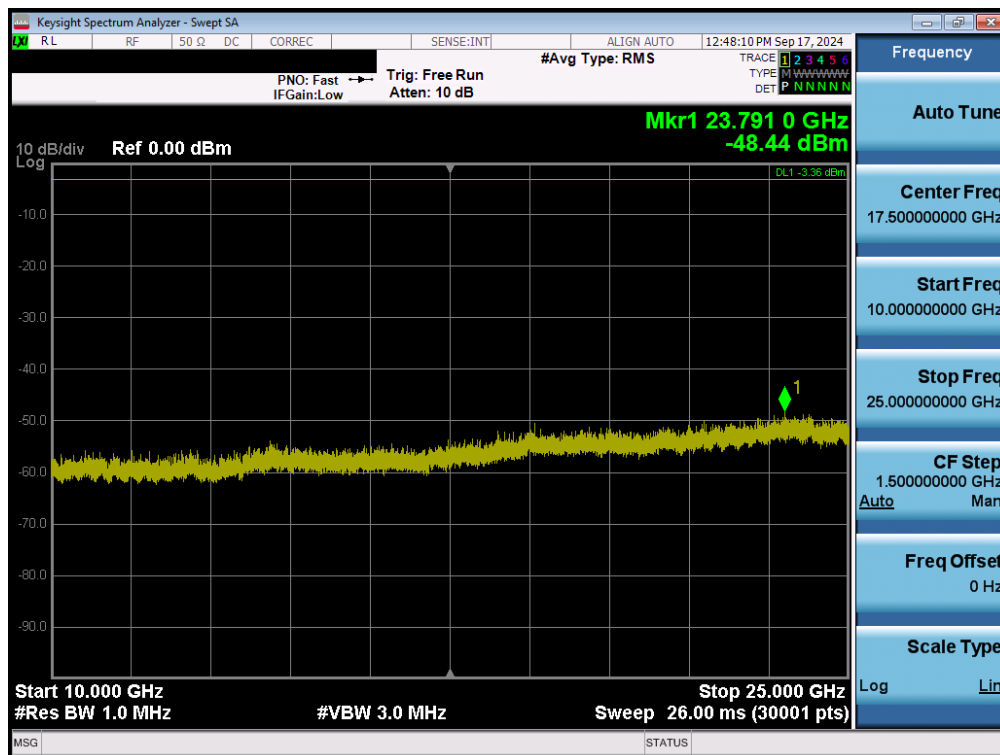
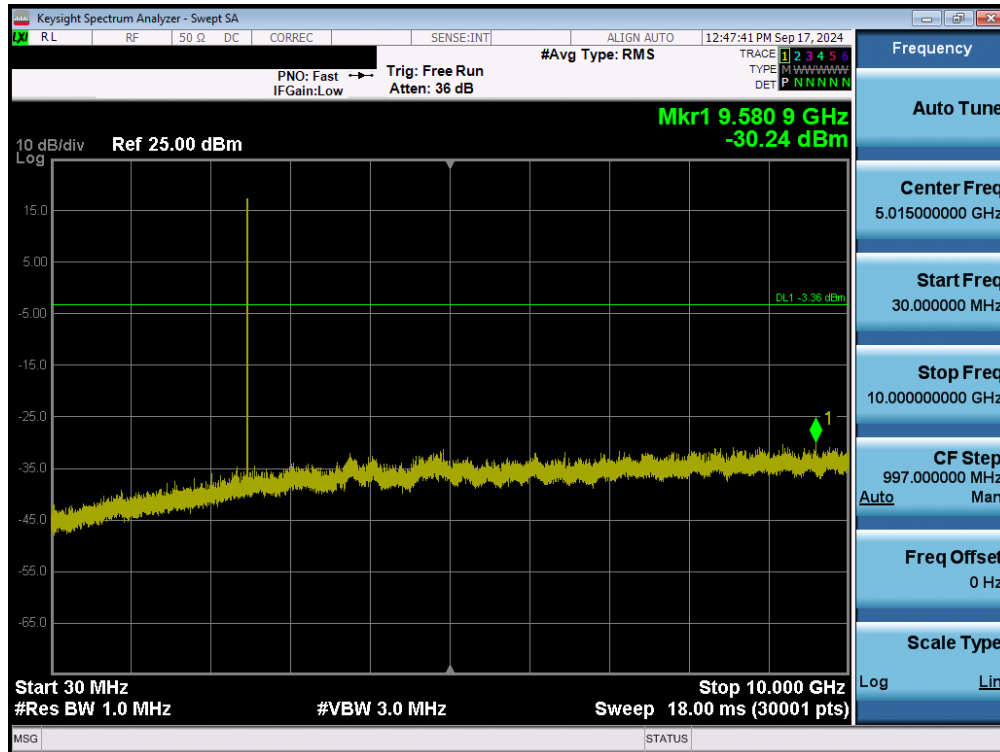
Plot 7-135. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant 1



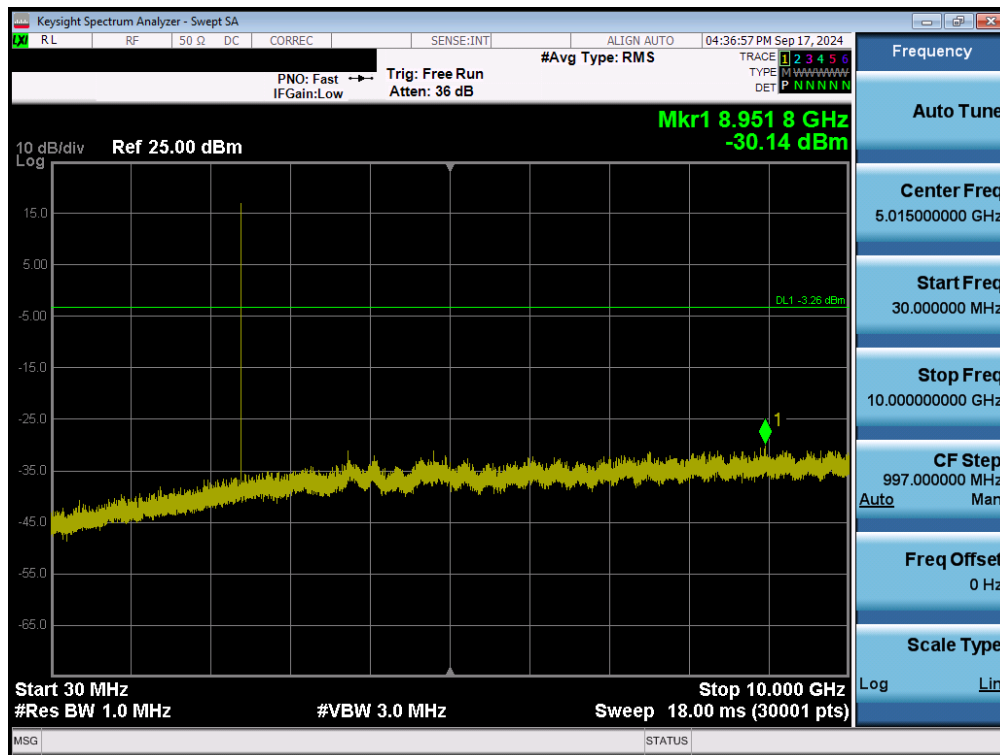
Plot 7-136. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 96 of 130

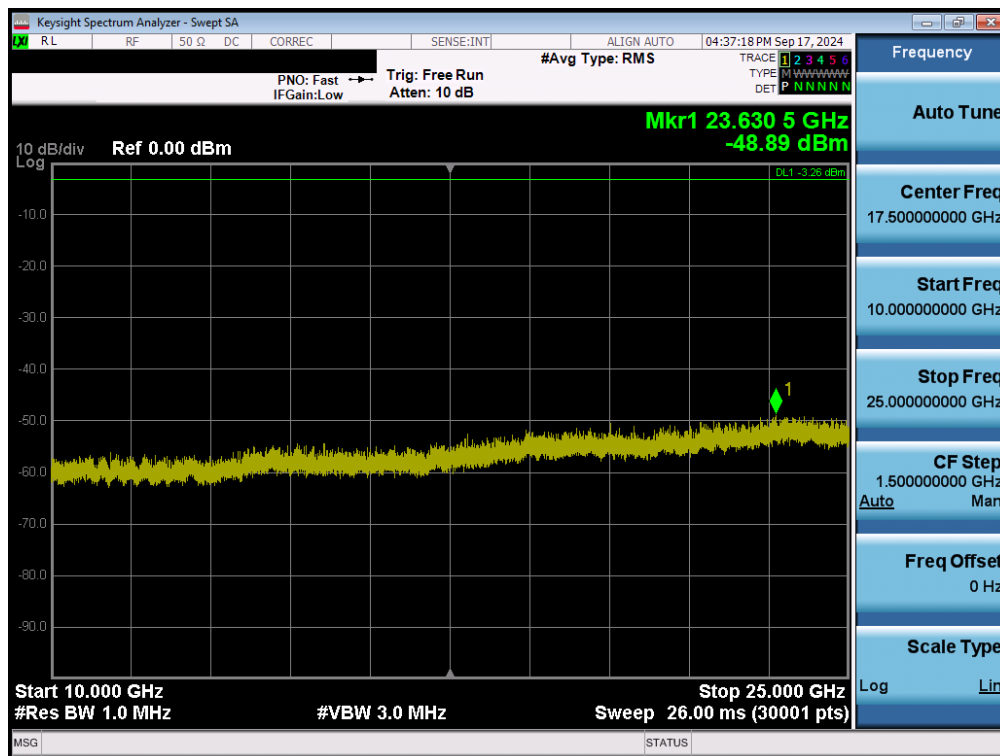




FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 98 of 130

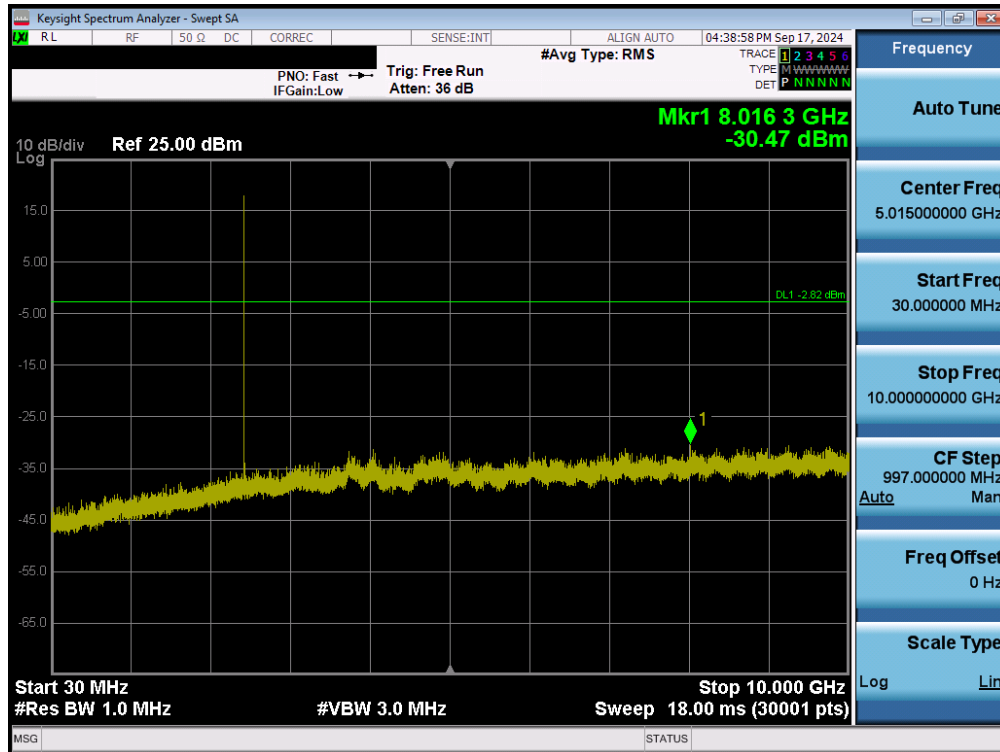


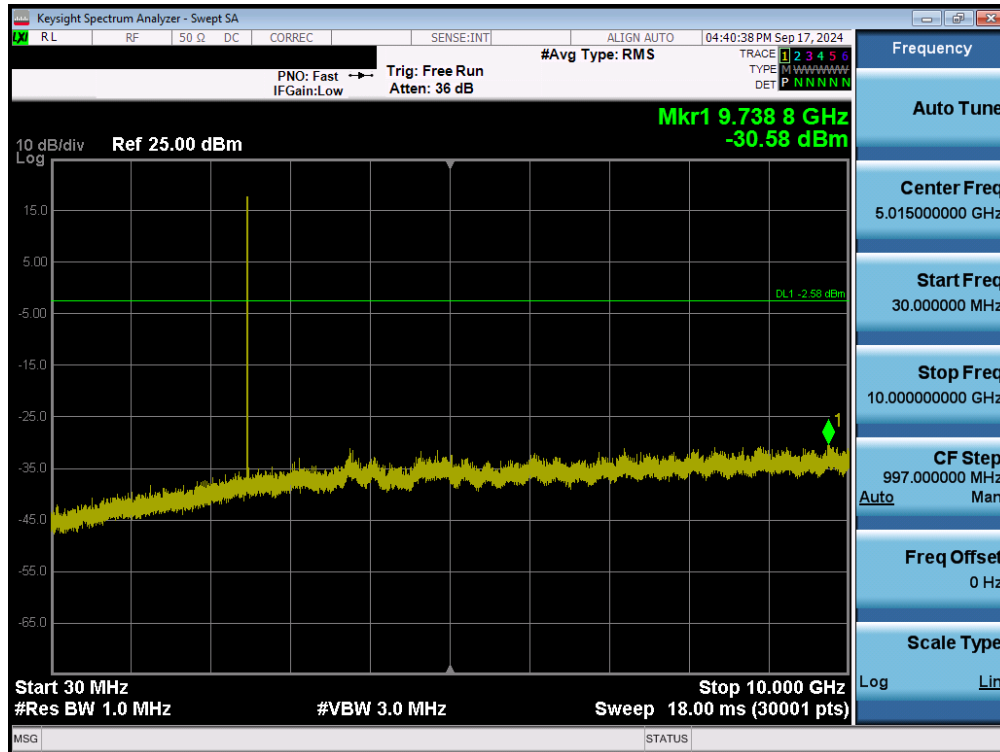
Plot 7-141. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Ant 2

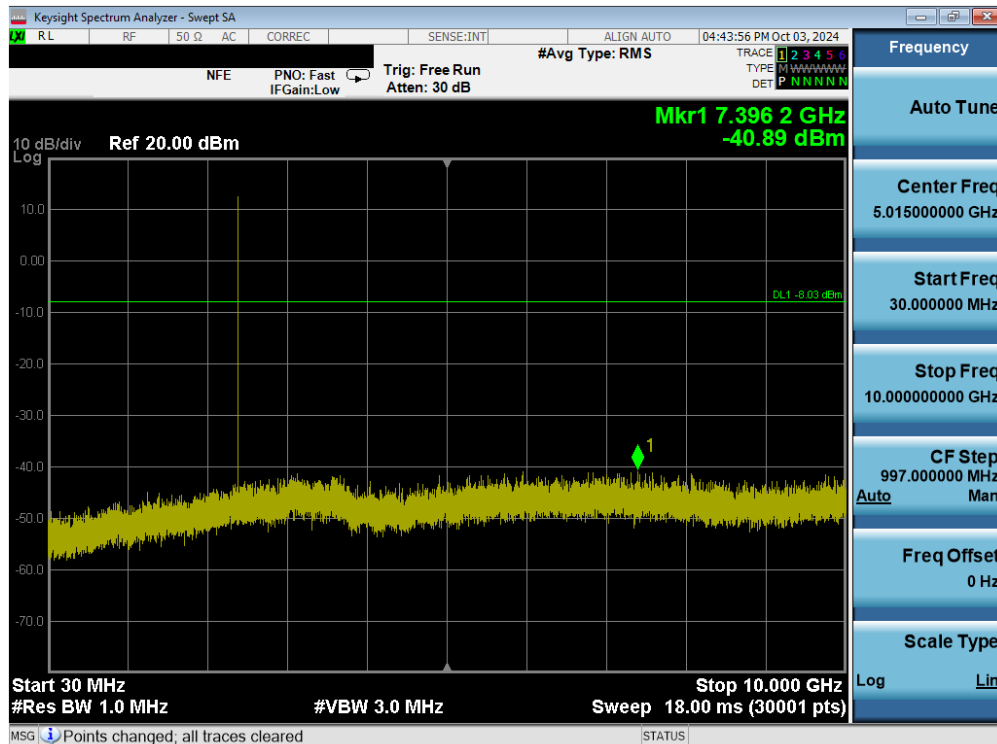


Plot 7-142. Conducted Spurious Plot (Bluetooth (LE), 1Mbps - Ch. 0) - Ant 2

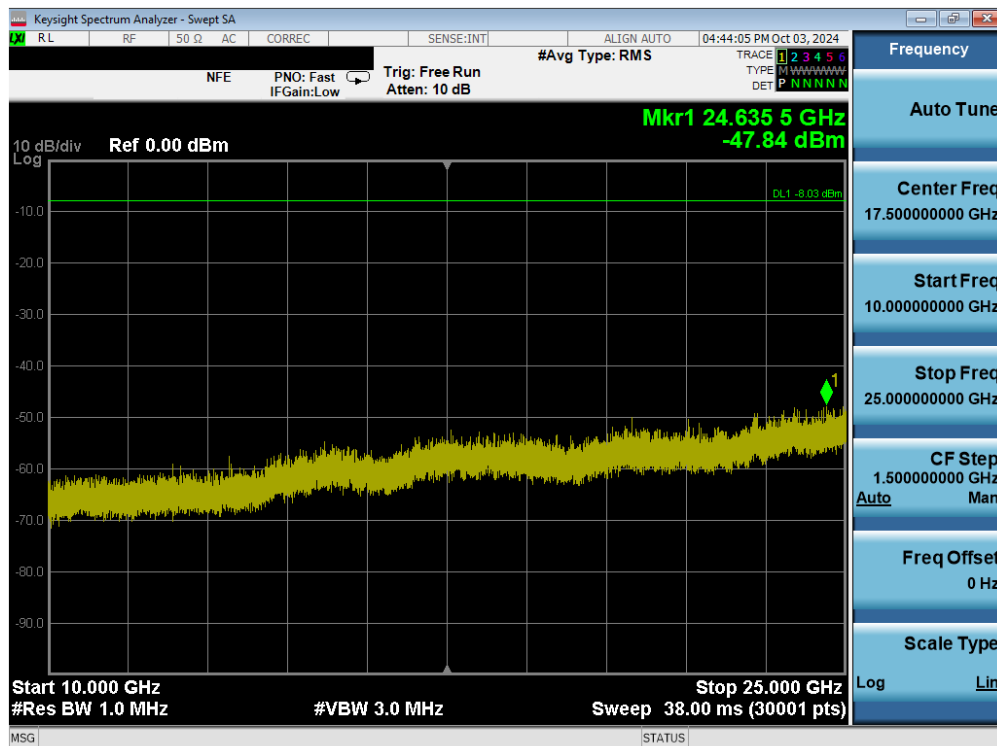
FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 99 of 130





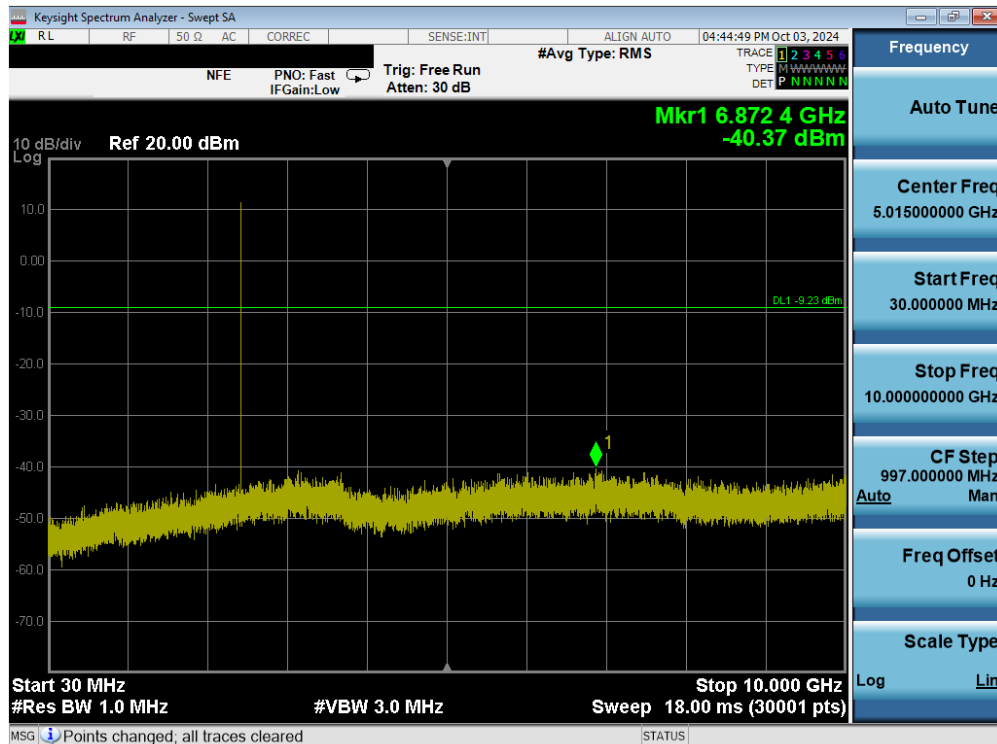


Plot 7-147. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 1

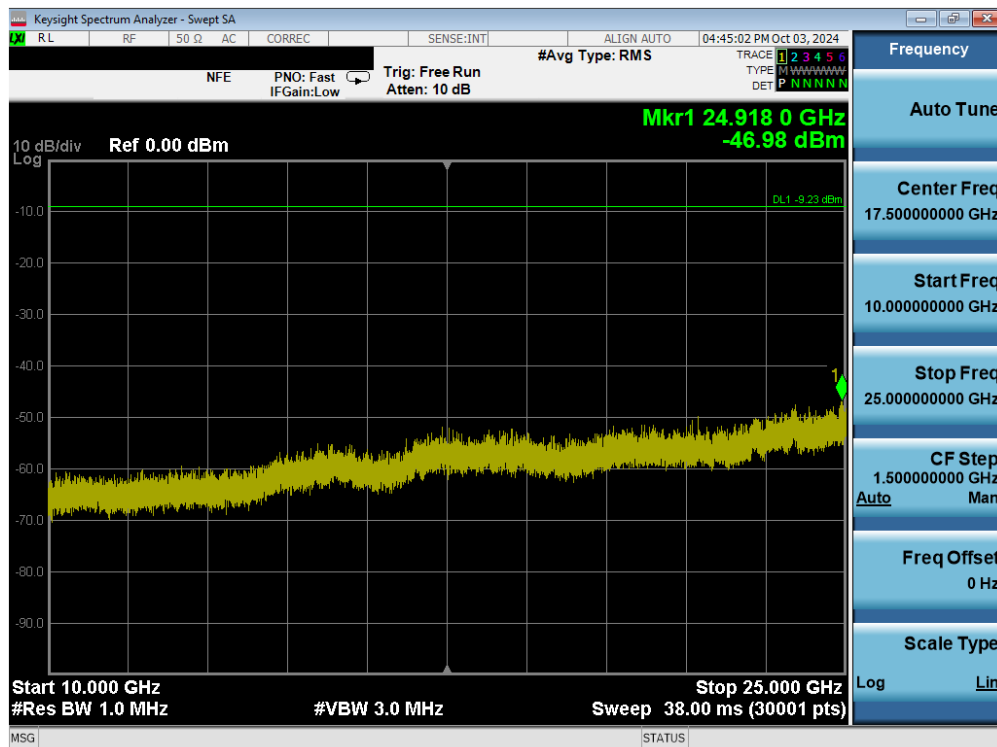


Plot 7-148. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 102 of 130

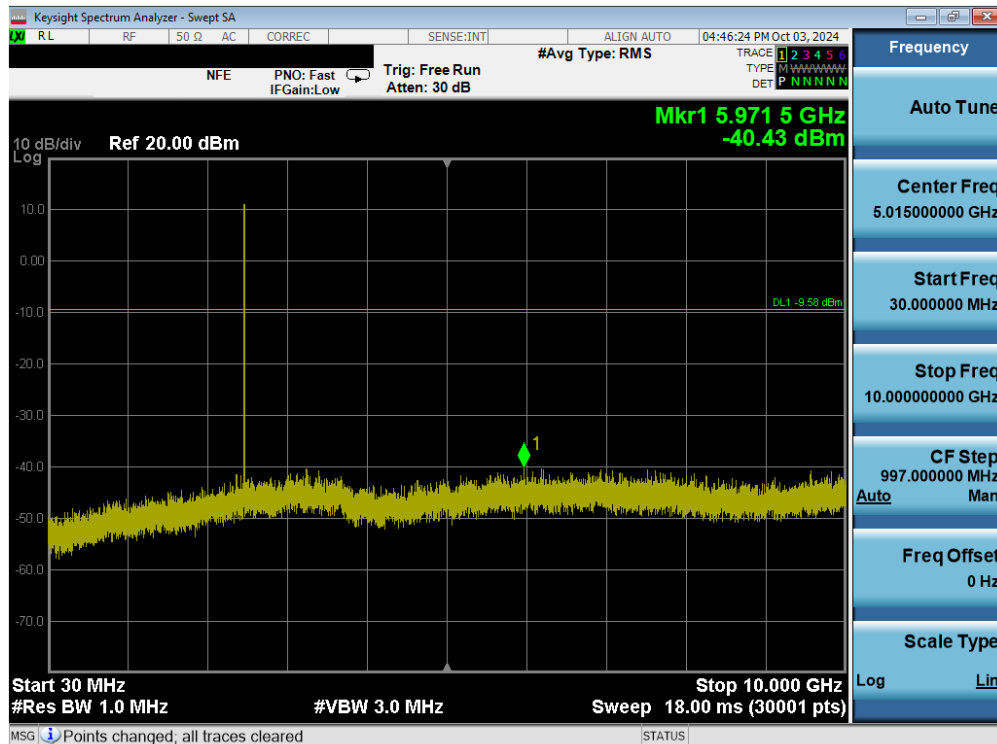


Plot 7-149. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 1

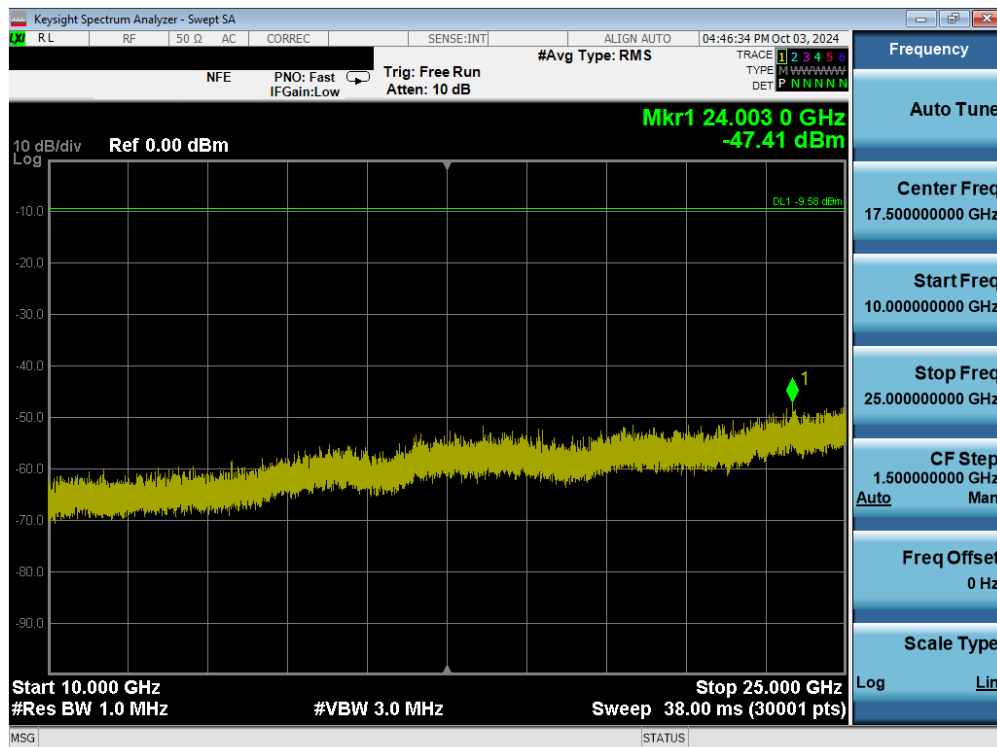


Plot 7-150. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 103 of 130

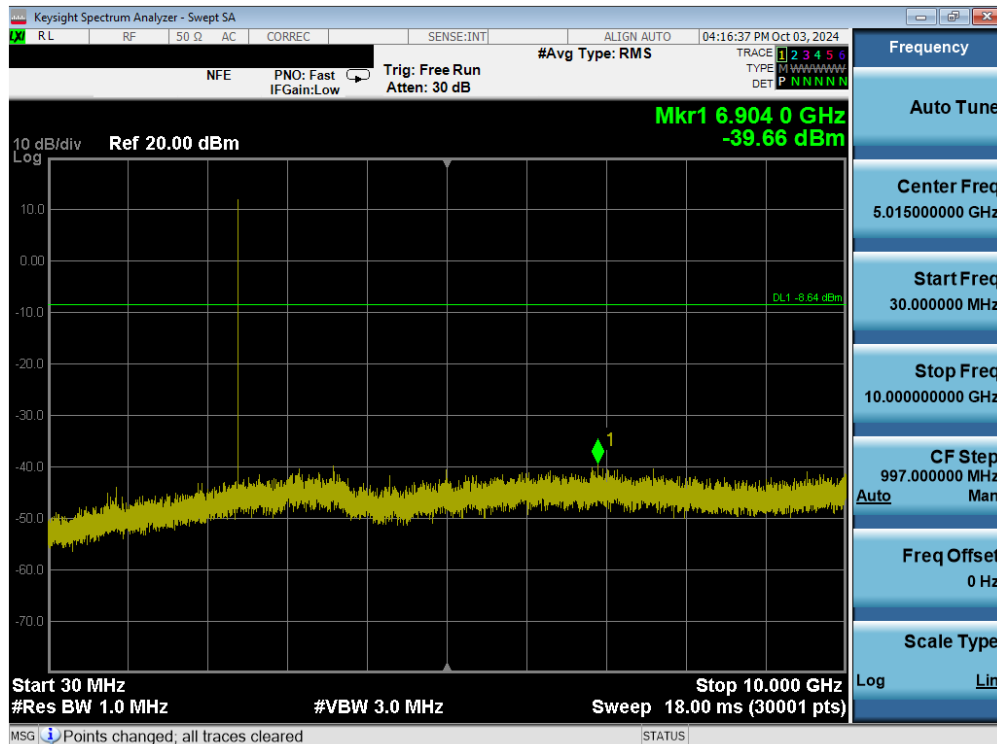


Plot 7-151. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 1

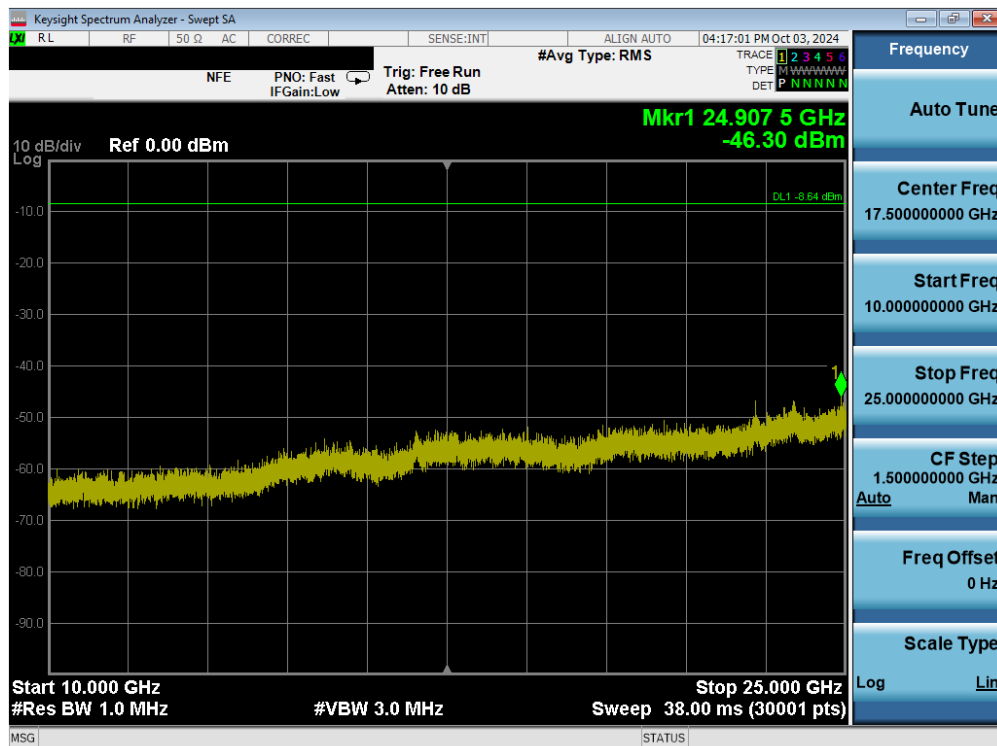


Plot 7-152. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 104 of 130

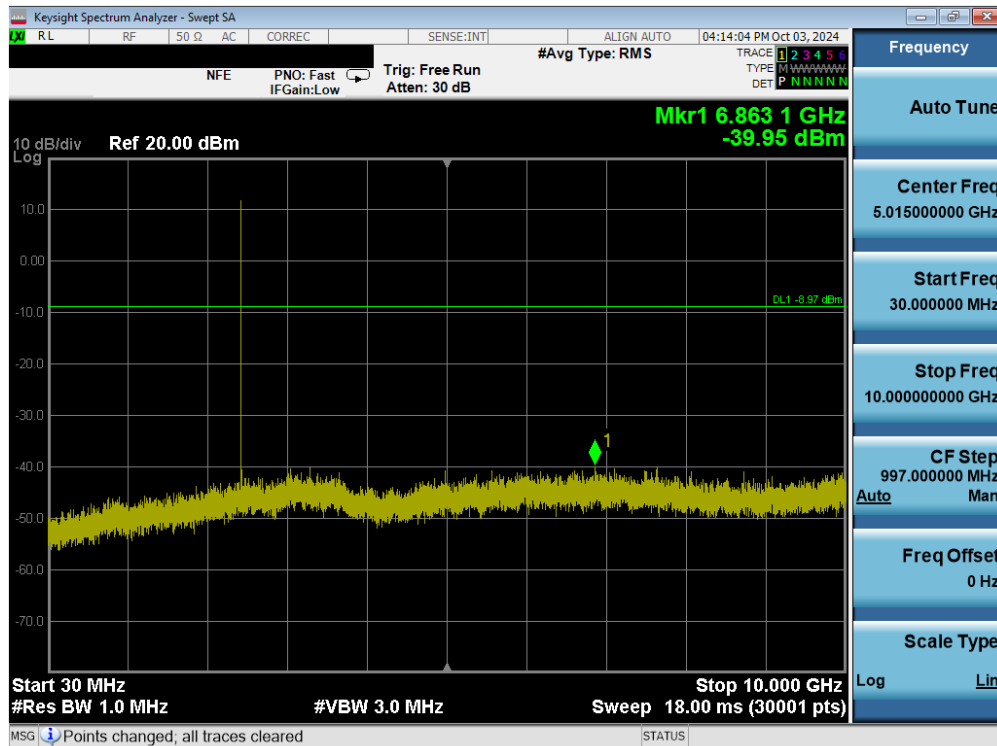


Plot 7-153. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 2

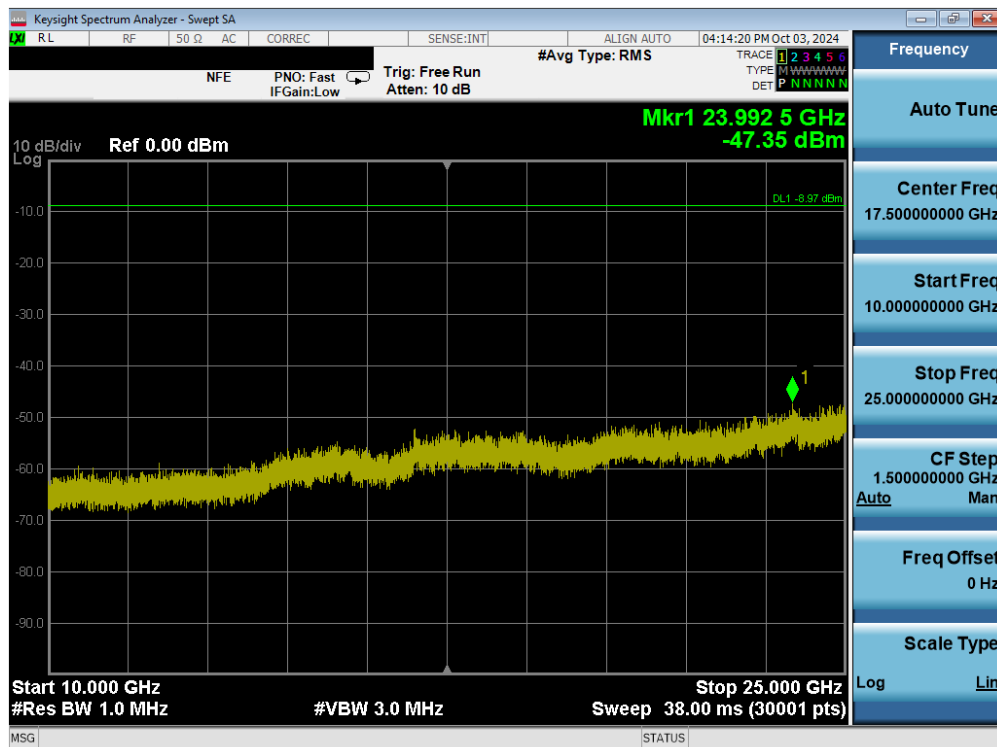


Plot 7-154. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 0) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 105 of 130

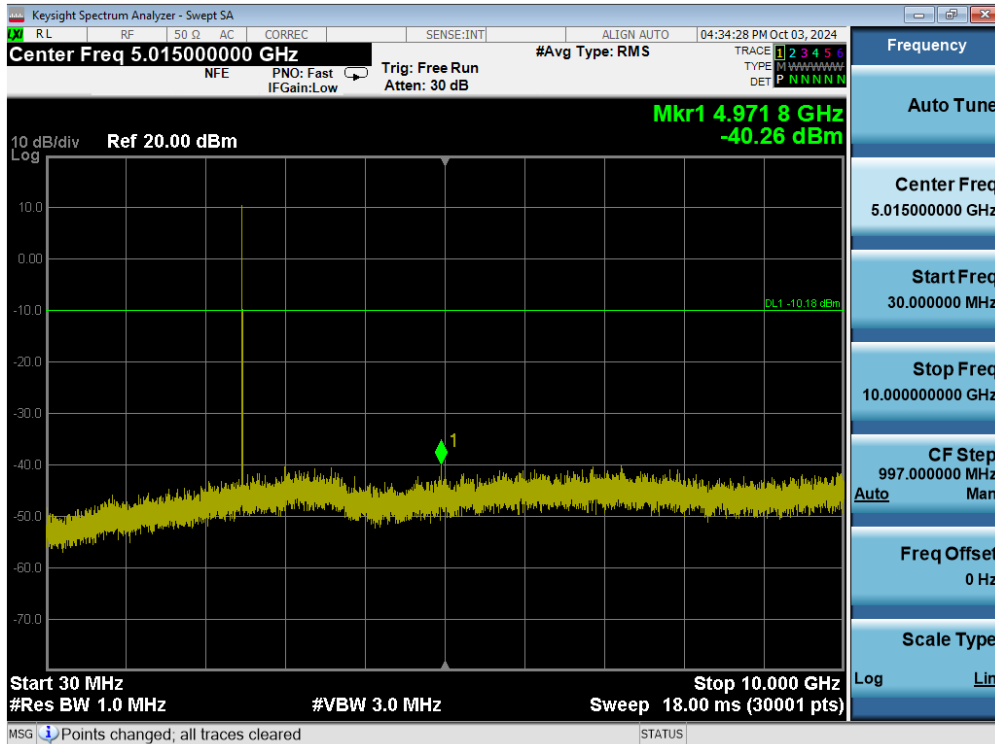


Plot 7-155. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 2

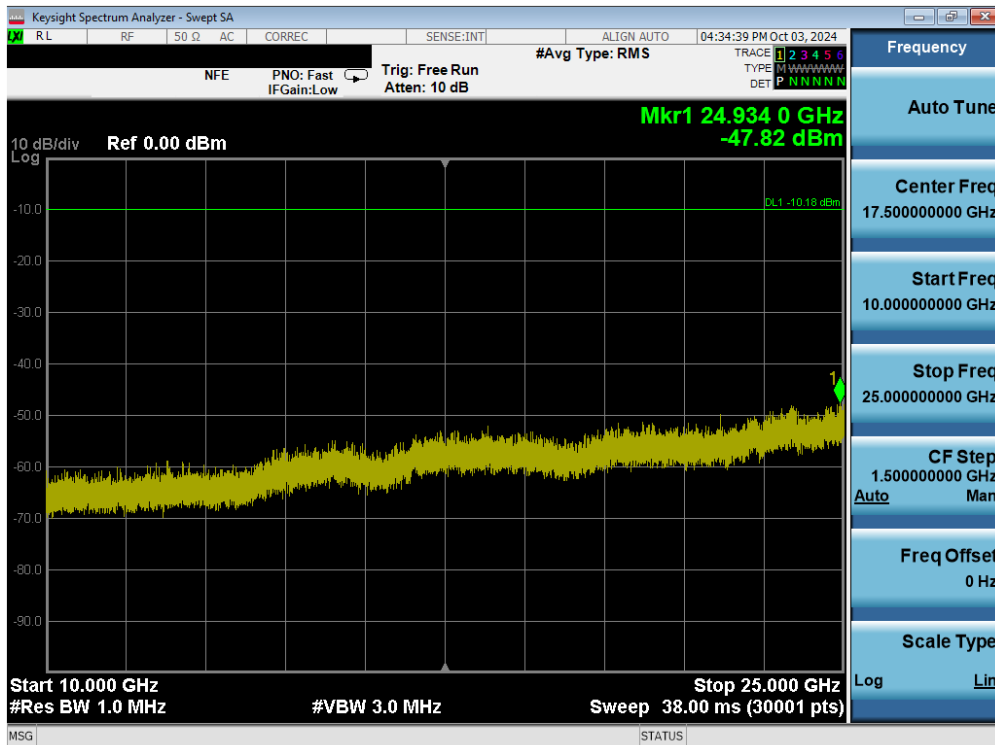


Plot 7-156. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 19) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 106 of 130



Plot 7-157. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 1



Plot 7-158. Conducted Spurious Plot (Bluetooth (LE), 1Mbps – Ch. 39) – Dual Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 107 of 130

7.7 Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-15 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-15. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3

KDB 558074 D01 v05r02 – Section 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3kHz > 1/T
4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
5. Detector = peak
6. Sweep time = auto
7. Trace mode = max hold
8. Trace was allowed to run for at least 50 times (1/duty cycle) traces

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 108 of 130

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in Table 7-16 below
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Frequency	RBW
9 – 150kHz	200 – 300Hz
0.15 – 30MHz	9 – 10kHz
30 – 1000MHz	100 – 120kHz
> 1000MHz	1MHz

Table 7-16. RBW as a Function of Frequency

Test Setup

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

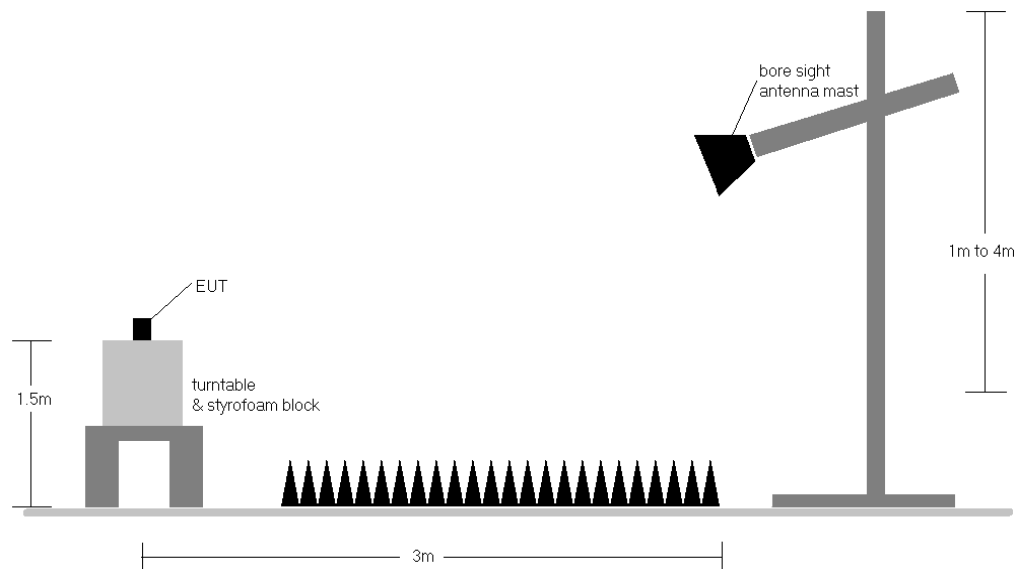


Figure 7-6. Radiated Test Setup >1GHz

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 109 of 130

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-15.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Average measurements were recorded using a VBW of 3kHz, per Section 4.1.4.2.3 of ANSI C63.10-2013, since 1/T is equal to just under 3kHz. This method was used because the EUT could not be configured to operate with a duty cycle > 98%. Both average and peak measurements were made using a peak detector
7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
8. No significant radiated band edge emissions were found in the 2310 – 2390MHz restricted band.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

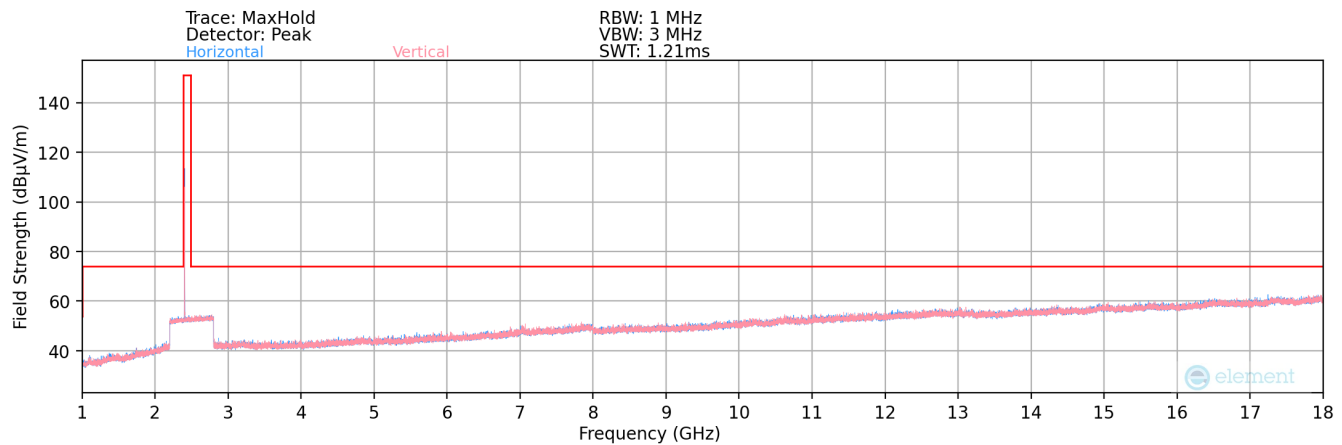
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

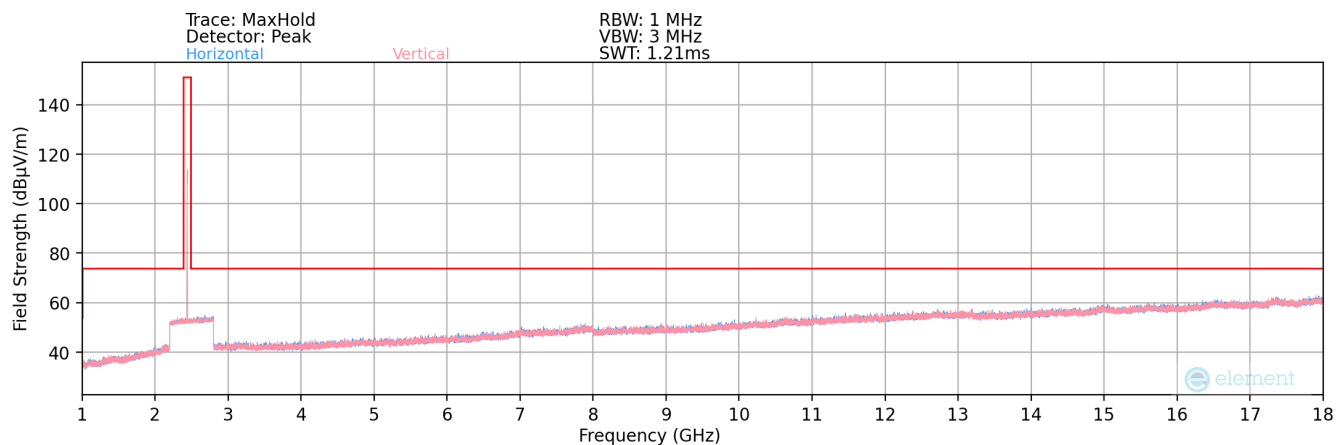
FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 110 of 130

Radiated Spurious Emission Measurements – Ant 1

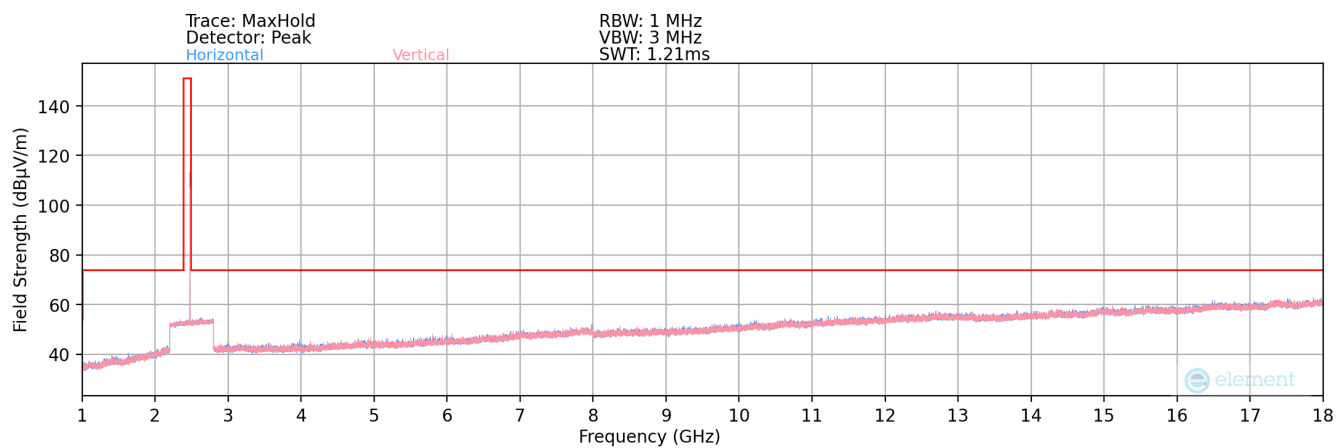
§15.205 §15.209 §15.247(d)



Plot 7-159. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 0) – Ant 1



Plot 7-160. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 19) – Ant 1



Plot 7-161. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – Ant 1

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 111 of 130



Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4808.00	Avg	H	-	-	-80.74	6.89	33.15	53.98	-20.83
4808.00	Peak	H	-	-	-80.64	6.89	33.25	73.98	-40.73
12010.00	Avg	H	-	-	-83.25	18.56	42.31	53.98	-11.67
12010.00	Peak	H	-	-	-83.01	18.56	42.55	73.98	-31.43

Table 7-17. Radiated Measurements @ 3 meters – Ant 1

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	H	136	335	-64.81	7.16	49.35	53.98	-4.63
4880.00	Peak	H	136	335	-55.33	7.16	58.83	73.98	-15.15
7320.00	Avg	H	159	334	-70.79	12.37	48.58	53.98	-5.39
7320.00	Peak	H	159	334	-60.58	12.37	58.79	73.98	-15.18
12200.00	Avg	H	-	-	-83.04	19.15	43.11	53.98	-10.87
12200.00	Peak	H	-	-	-74.07	19.15	52.08	73.98	-21.90

Table 7-18. Radiated Measurements @ 3 meters

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 112 of 130

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4956.00	Avg	H	139	337	-66.09	6.83	47.74	53.98	-6.24
4956.00	Peak	H	139	337	-57.46	6.83	56.37	73.98	-17.61
7434.00	Avg	H	178	335	-70.05	12.35	49.30	53.98	-4.68
7434.00	Peak	H	178	335	-56.26	12.35	63.09	73.98	-10.89
12390.00	Avg	H	-	-	-82.96	18.97	43.01	53.98	-10.97
12390.00	Peak	H	-	-	-74.91	18.97	51.06	73.98	-22.92

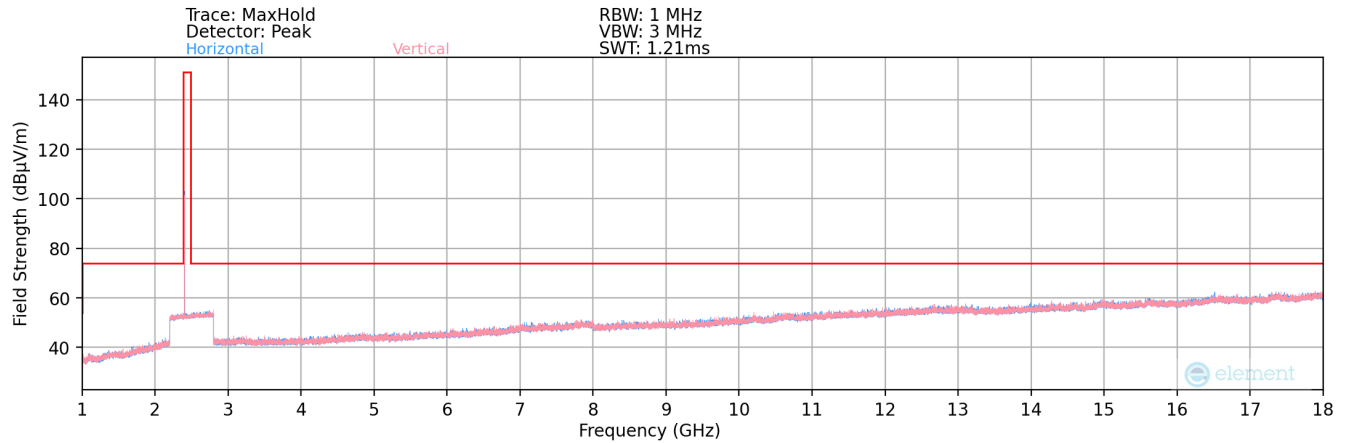
Table 7-19. Radiated Measurements @ 3 meters

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 113 of 130

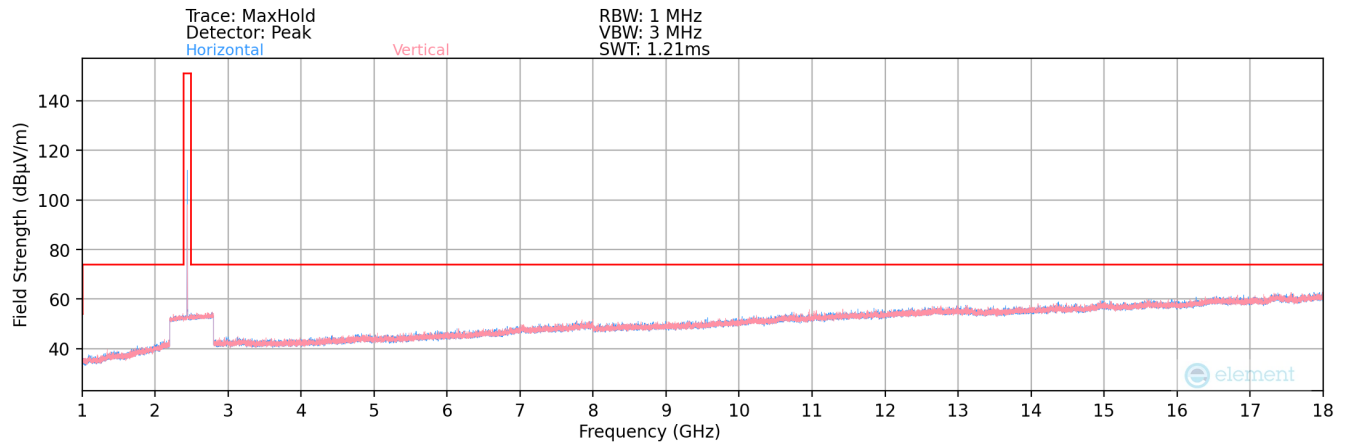


Radiated Spurious Emission Measurements – Ant 2

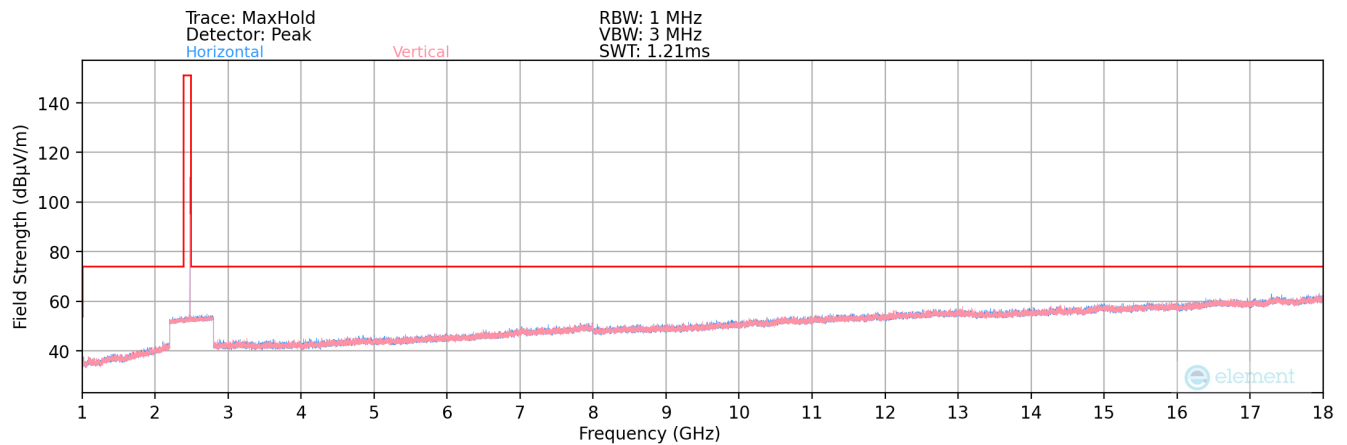
§15.205 §15.209 §15.247(d)



Plot 7-162. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 0) – Ant 2



Plot 7-163. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 19) – Ant 2



Plot 7-164. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 114 of 130

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V11.1 08/28/2023

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Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4808.00	Avg	H	235	211	-72.27	6.89	41.62	53.98	-12.36
4808.00	Peak	H	235	211	-62.54	6.89	51.35	73.98	-22.63
12020.00	Avg	H	-	-	-83.17	18.55	42.38	53.98	-11.60
12020.00	Peak	H	-	-	-74.24	18.55	51.31	73.98	-22.67

Table 7-20. Radiated Measurements @ 3 meters – Ant 2

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	H	159	331	-67.58	7.16	46.58	53.98	-7.40
4880.00	Peak	H	159	331	-59.31	7.16	54.85	73.98	-19.13
7320.00	Avg	H	166	332	-75.31	12.37	44.06	53.98	-9.91
7320.00	Peak	H	166	332	-63.58	12.37	55.79	73.98	-18.18
12200.00	Avg	H	-	-	-82.31	19.15	43.84	53.98	-10.14
12200.00	Peak	H	-	-	-73.98	19.15	52.17	73.98	-21.81

Table 7-21. Radiated Measurements @ 3 meters – Ant 2

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 115 of 130

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4956.00	Avg	H	195	212	-72.50	6.83	41.33	53.98	-12.65
4956.00	Peak	H	195	212	-62.81	6.83	51.02	73.98	-22.96
7434.00	Avg	H	212	211	-77.82	12.35	41.53	53.98	-12.45
7434.00	Peak	H	212	211	-69.85	12.35	49.50	73.98	-24.48
12390.00	Avg	H	-	-	-82.71	18.97	43.26	53.98	-10.72
12390.00	Peak	H	-	-	-75.34	18.97	50.63	73.98	-23.35

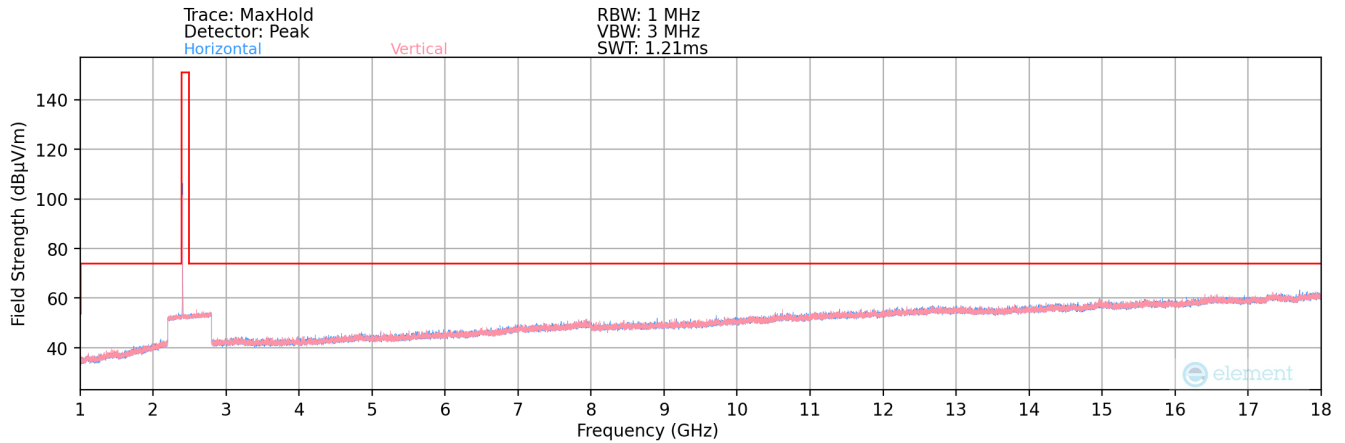
Table 7-22. Radiated Measurements @ 3 meters

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 116 of 130

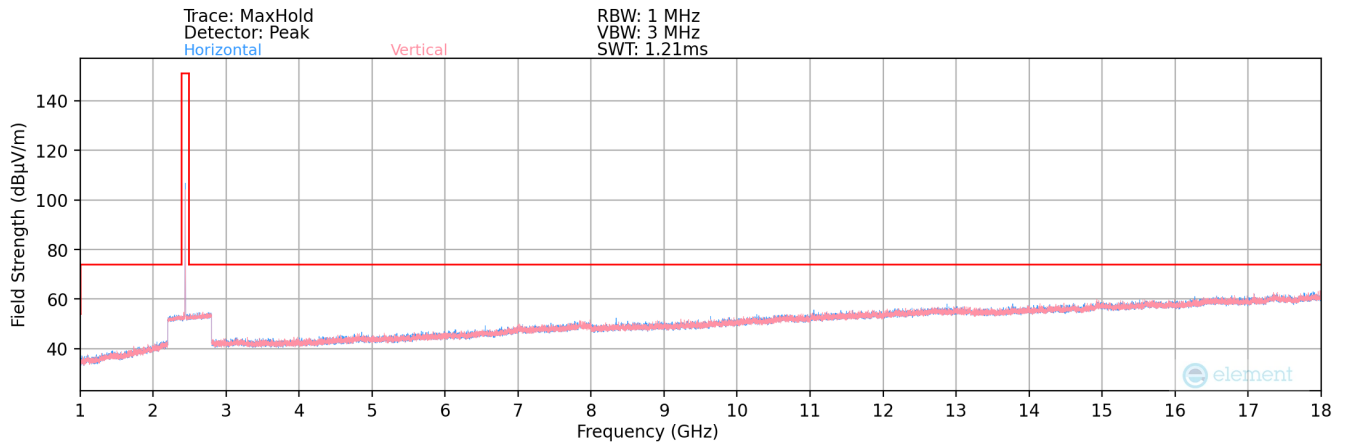


Radiated Spurious Emission Measurements – Dual Ant

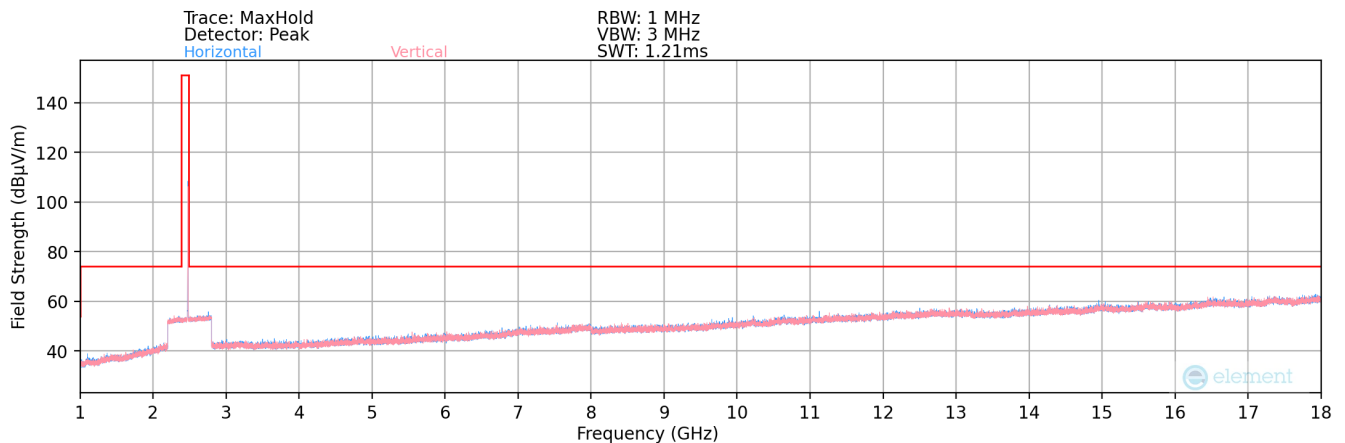
§15.205 §15.209 §15.247(d)



Plot 7-165. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 0) – Dual Ant



Plot 7-166. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 19) – Dual Ant



Plot 7-167. Radiated Spurious Plot above 1GHz (Bluetooth (LE) – Ch. 39) – Dual Ant

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 117 of 130

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V11.1 08/28/2023

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Radiated Spurious Emission Measurements

§15.205 §15.209 §15.247(d); RSS-Gen [8.9]

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2402MHz
Channel: 0

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4808.00	Avg	H	192	198	-76.77	6.89	37.12	53.98	-16.86
4808.00	Peak	H	192	198	-67.30	6.89	46.59	73.98	-27.39
12020.00	Avg	H	-	-	-83.15	18.55	42.40	53.98	-11.58
12020.00	Peak	H	-	-	-75.76	18.55	49.79	73.98	-24.19

Table 7-23. Radiated Measurements @ 3 meters – Dual Ant

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2440MHz
Channel: 19

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4880.00	Avg	H	221	195	-72.63	7.16	41.53	53.98	-12.45
4880.00	Peak	H	221	195	-63.26	7.16	50.90	73.98	-23.08
7320.00	Avg	H	222	190	-79.72	12.37	39.65	53.98	-14.32
7320.00	Peak	H	222	190	-71.23	12.37	48.14	73.98	-25.83
12200.00	Avg	H	-	-	-82.45	19.15	43.70	53.98	-10.28
12200.00	Peak	H	-	-	-74.87	19.15	51.28	73.98	-22.70

Table 7-24. Radiated Measurements @ 3 meters – Dual Ant

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 118 of 130

Bluetooth Mode: LE
Distance of Measurements: 3 Meters
Operating Frequency: 2480MHz
Channel: 39

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4956.00	Avg	H	248	199	-73.40	6.83	40.43	53.98	-13.55
4956.00	Peak	H	248	199	-64.76	6.83	49.07	73.98	-24.91
7434.00	Avg	H	212	204	-80.14	12.35	39.21	53.98	-14.77
7434.00	Peak	H	212	204	-71.05	12.35	48.30	73.98	-25.68
12390.00	Avg	H	-	-	-82.45	18.97	43.52	53.98	-10.46
12390.00	Peak	H	-	-	-74.94	18.97	51.03	73.98	-22.95

Table 7-25. Radiated Measurements @ 3 meters – Dual Ant

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 119 of 130

7.8 Radiated Restricted Band Edge Measurements – ANT1

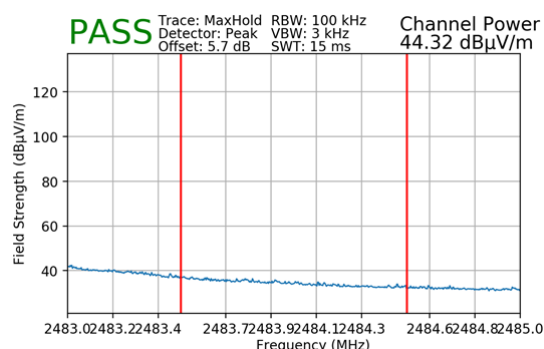
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

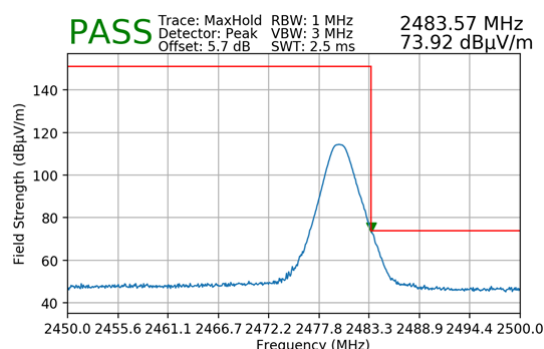
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Bluetooth Mode:	LE
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	39



Plot 7-168. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-169. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 120 of 130



7.9 Radiated Restricted Band Edge Measurements – ANT2

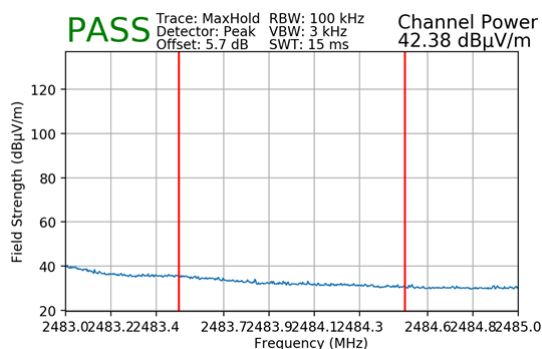
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

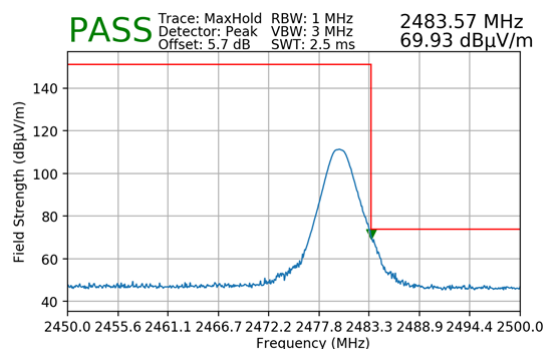
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

Bluetooth Mode:	LE
Measurement Distance:	3 Meters
Operating Frequency:	2480MHz
Channel:	39



Plot 7-170. Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-171. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 121 of 130

7.10 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-26 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-26. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 122 of 130

Test Setup

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

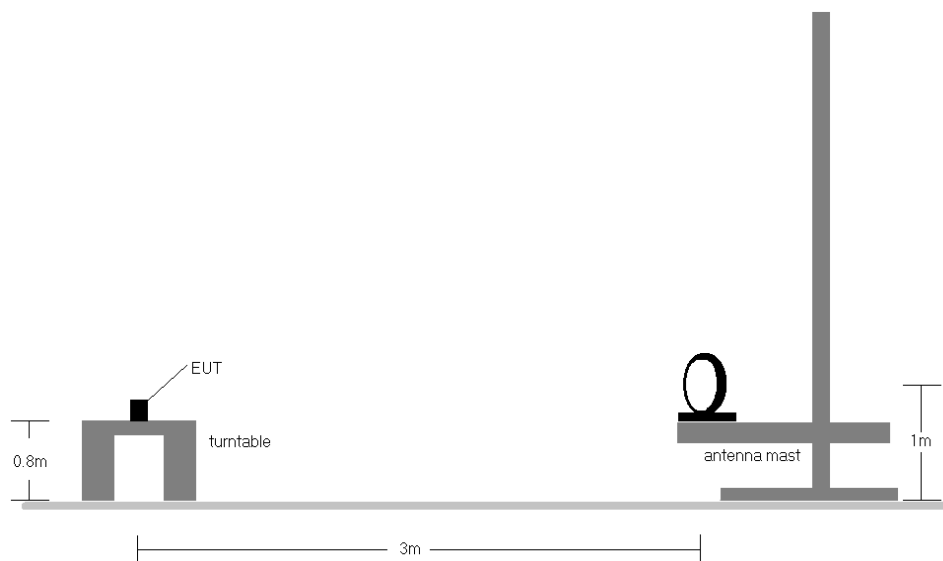


Figure 7-7. Radiated Test Setup < 30Mhz

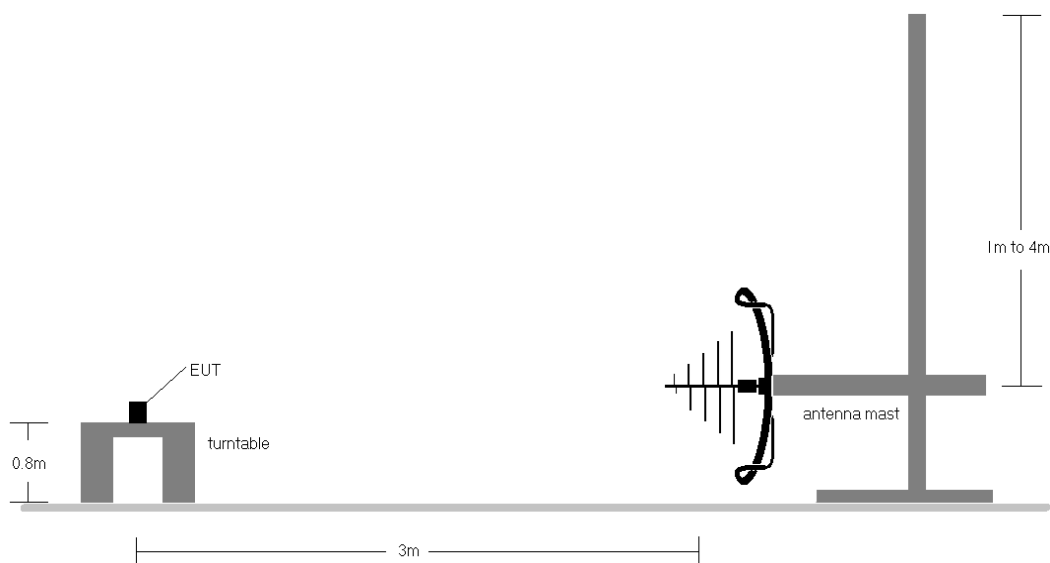


Figure 7-8. Radiated Test Setup < 1GHz

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 123 of 130

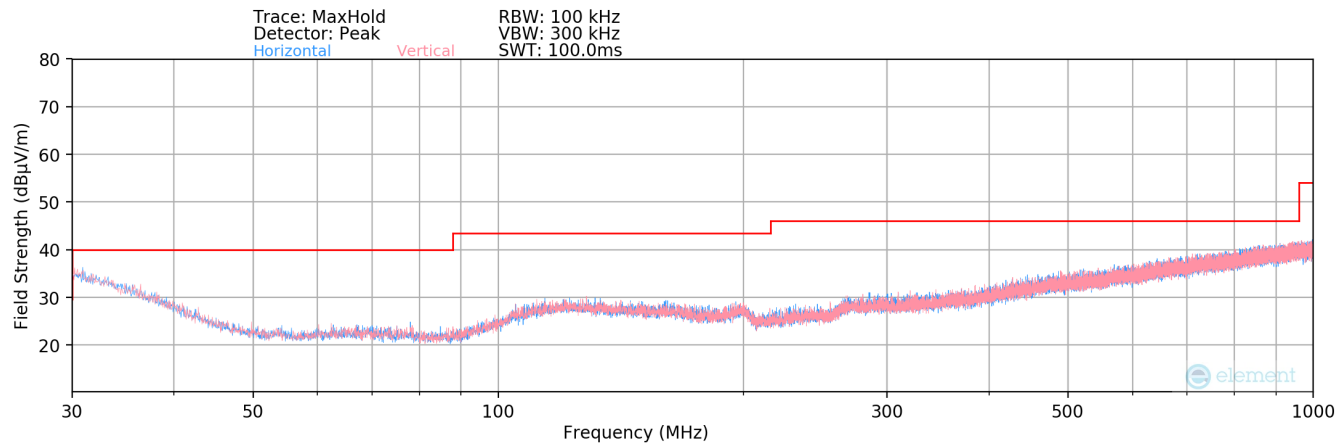
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-26.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 124 of 130

Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-172. Radiated Spurious Plot below 1GHz

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 125 of 130

7.11 Line-Conducted Test Data

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-27. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 126 of 130

Test Setup

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

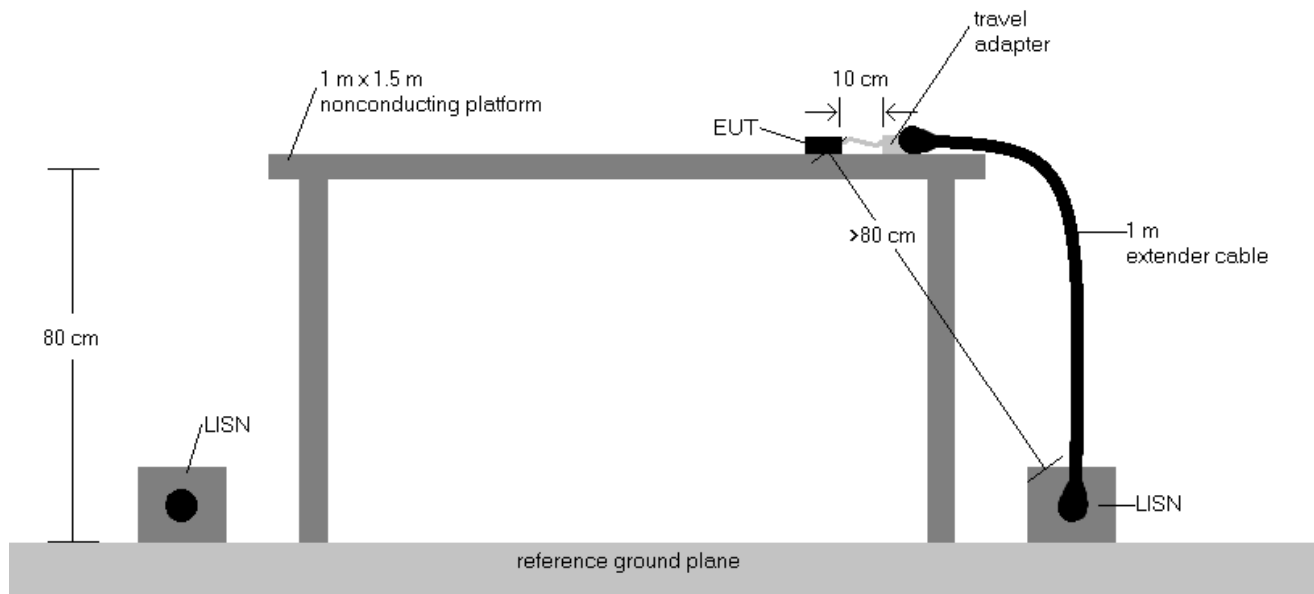
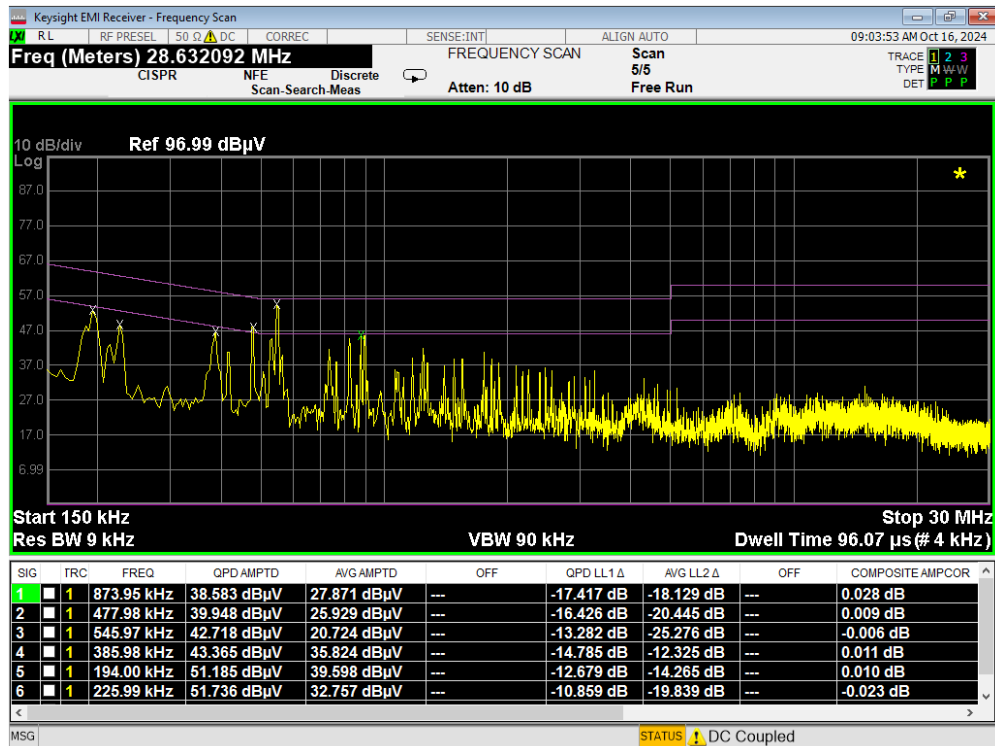


Figure 7-9. Test Instrument & Measurement Setup

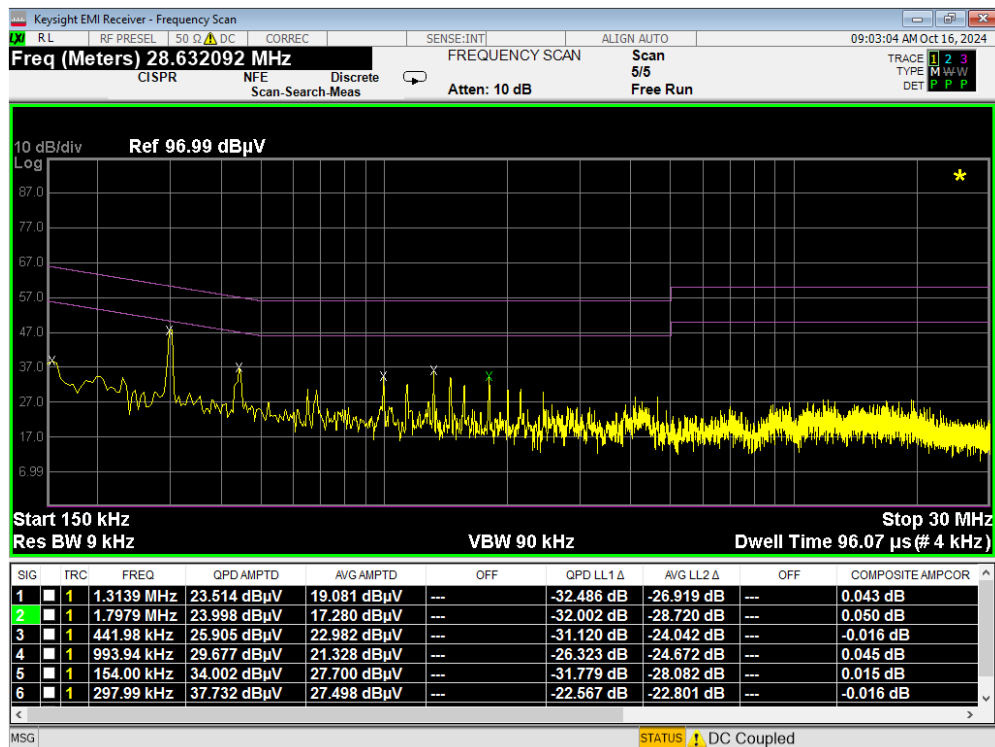
Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen (8.8).
3. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5. $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 127 of 130

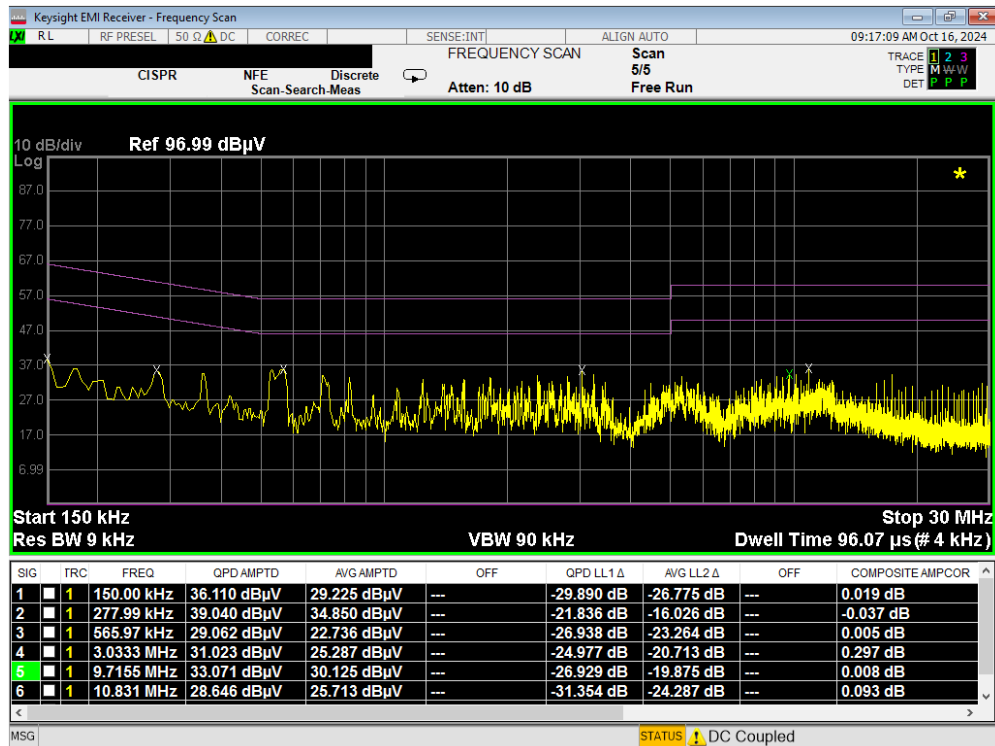


Plot 7-173. Line Conducted Plot with Bluetooth LE (L1)

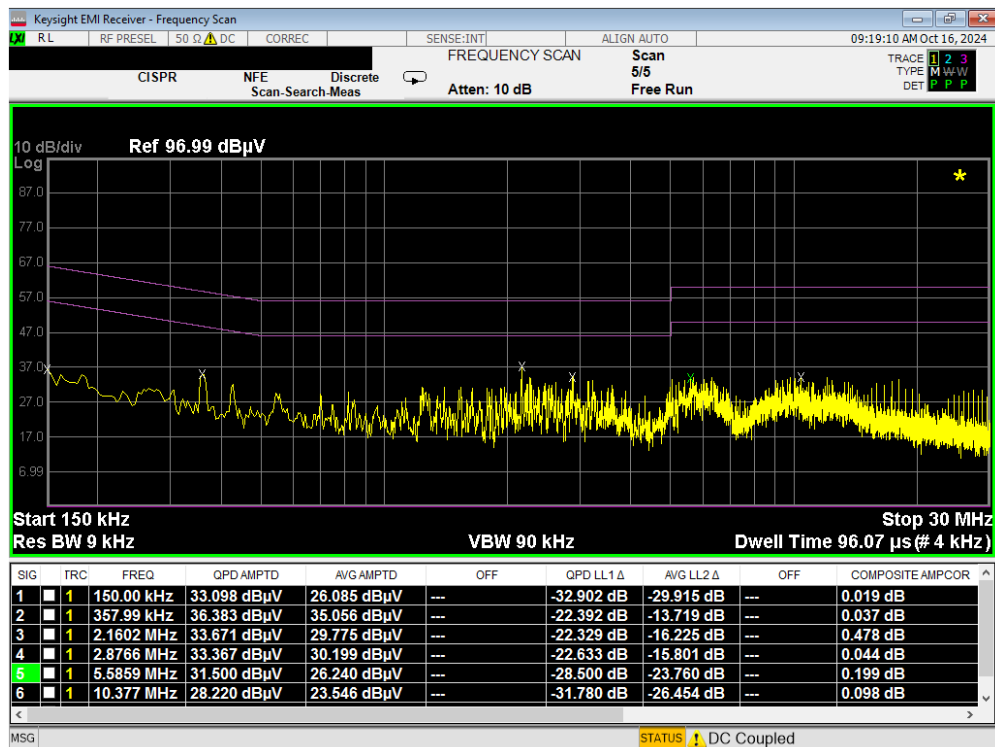


Plot 7-174. Line Conducted Plot with Bluetooth LE (N)

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 128 of 130



Plot 7-175. Line Conducted Plot with Bluetooth LE (L1) - WCP



Plot 7-176. Line Conducted Plot with Bluetooth LE (N) - WCP

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 129 of 130

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS936B** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

FCC ID: A3LSMS936B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2408260066-11.A3L	Test Dates: 09/03/24 - 10/25/2024	EUT Type: Portable Handset	Page 130 of 130