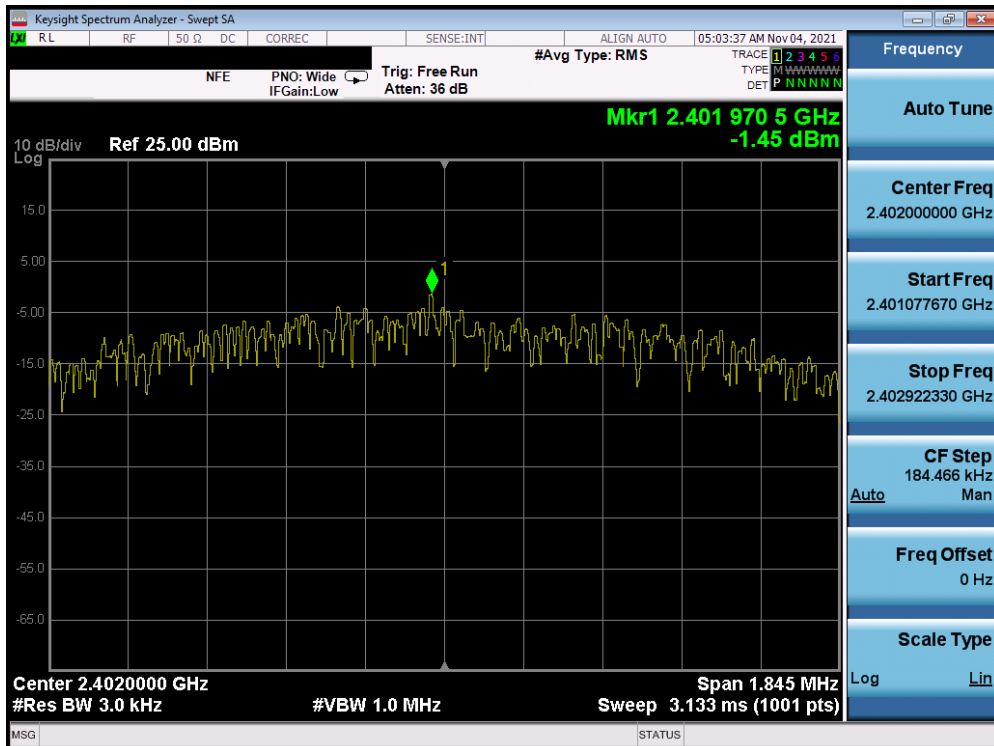
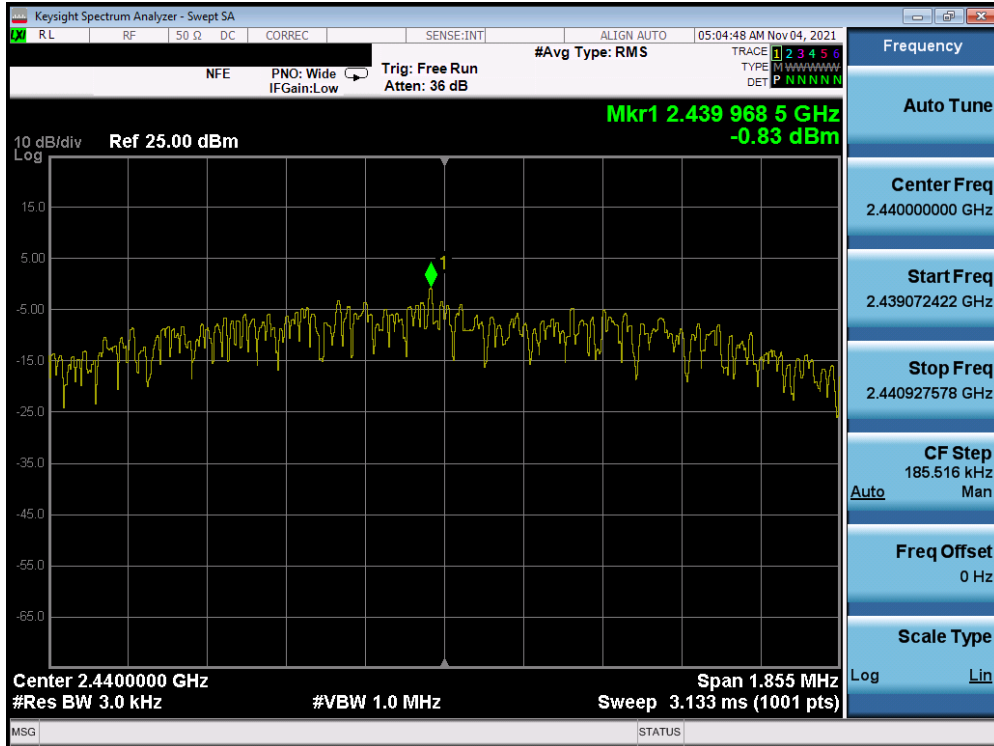


Plot 7-93. Power Spectral Density Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 39) Antenna 2

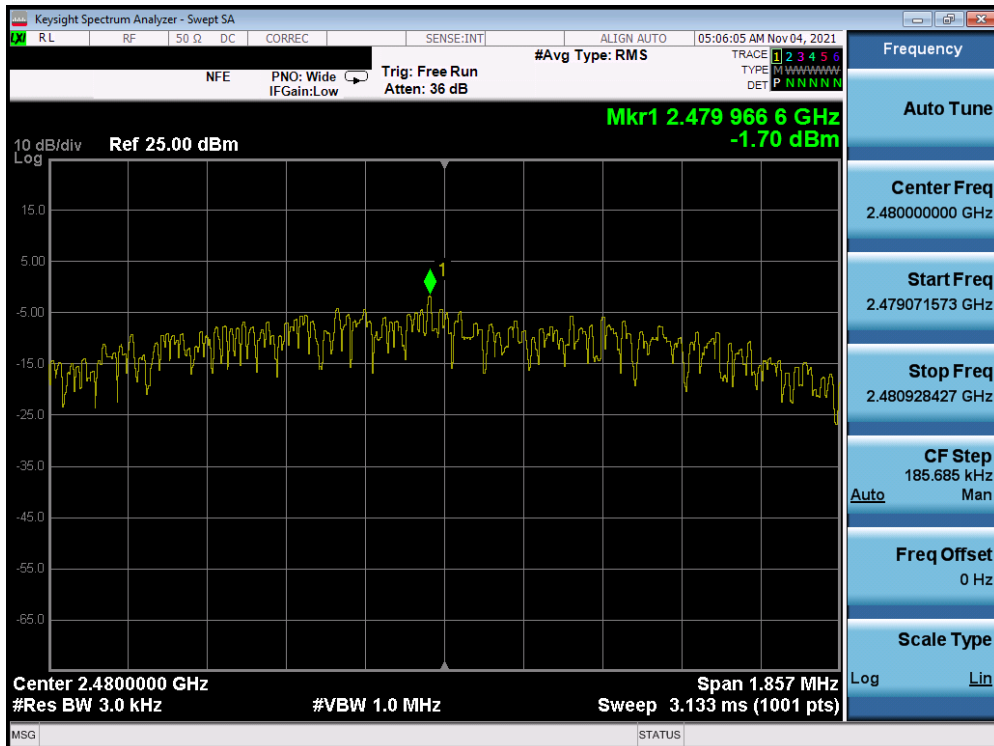


Plot 7-94. Power Spectral Density Plot (Bluetooth (LE), 2Mbps, ePA – Ch. 0) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 68 of 113



Plot 7-95. Power Spectral Density Plot (Bluetooth (LE), 2Mbps, ePA – Ch. 19) Antenna 2



Plot 7-96. Power Spectral Density Plot (Bluetooth (LE), 2Mbps, ePA – Ch. 39) Antenna 2

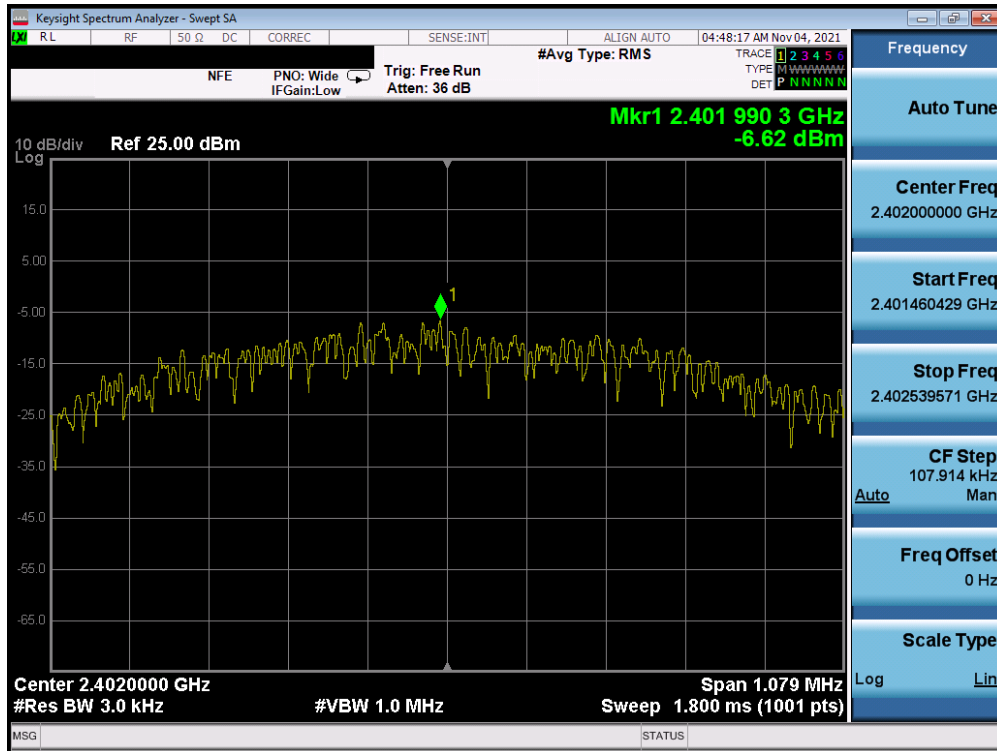
FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 69 of 113

## Dual Antenna

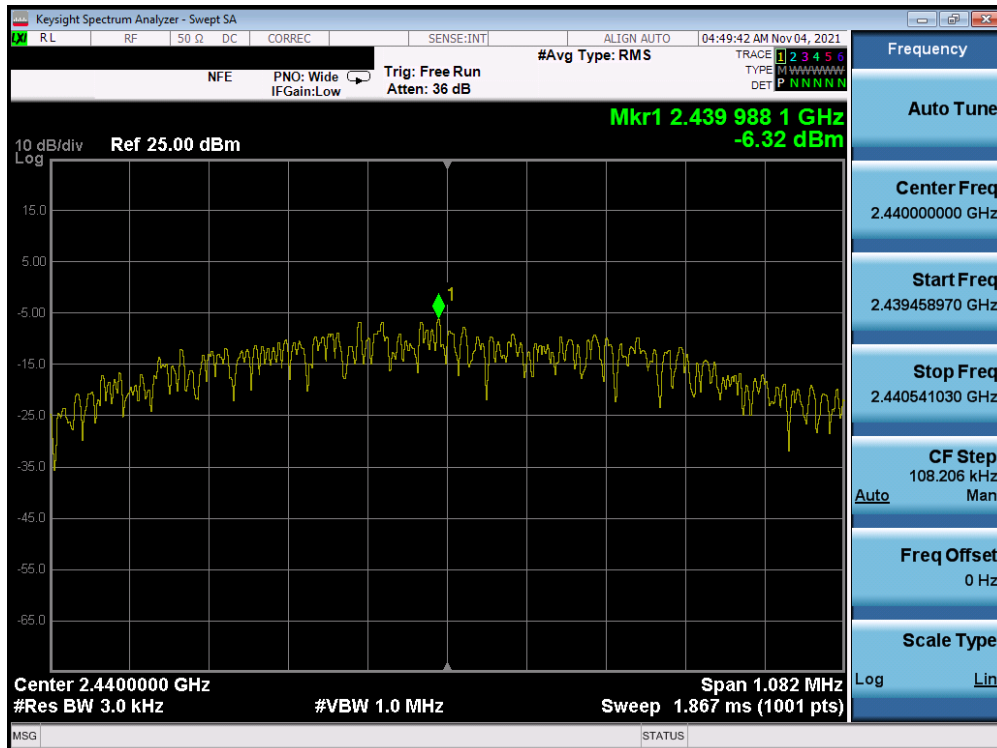
Frequency [MHz]	Data Rate	Power Scheme	Channel No.	Bluetooth Mode	ANT 0 Power Spectral Density [dBm]	ANT 1 Power Spectral Density [dBm]	Summed Dual Power Spectral Density [dBm]	Maximum Permissible Power Density [dBm / 3kHz]	Margin [dB]
2402	1 Mbps	iPA	0	LE	-6.62	-6.44	-3.52	8.00	-11.52
2440	1 Mbps	iPA	19	LE	-6.32	-6.00	-3.15	8.00	-11.15
2480	1 Mbps	iPA	39	LE	-7.01	-6.85	-3.92	8.00	-11.92
2402	2 Mbps	iPA	0	LE	-8.49	-8.39	-5.43	8.00	-13.43
2440	2 Mbps	iPA	19	LE	-8.25	-7.93	-5.08	8.00	-13.08
2480	2 Mbps	iPA	39	LE	-9.02	-8.96	-5.98	8.00	-13.98

**Table 7-9. Conducted Power Density Measurements Dual Antenna**

<b>FCC ID:</b> A3LSMS906U	 Proud to be part of  element	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109090103-17.A3L	<b>Test Dates:</b> 9/22/2021 - 11/11/2021	<b>EUT Type:</b> Portable Handset		Page 70 of 113

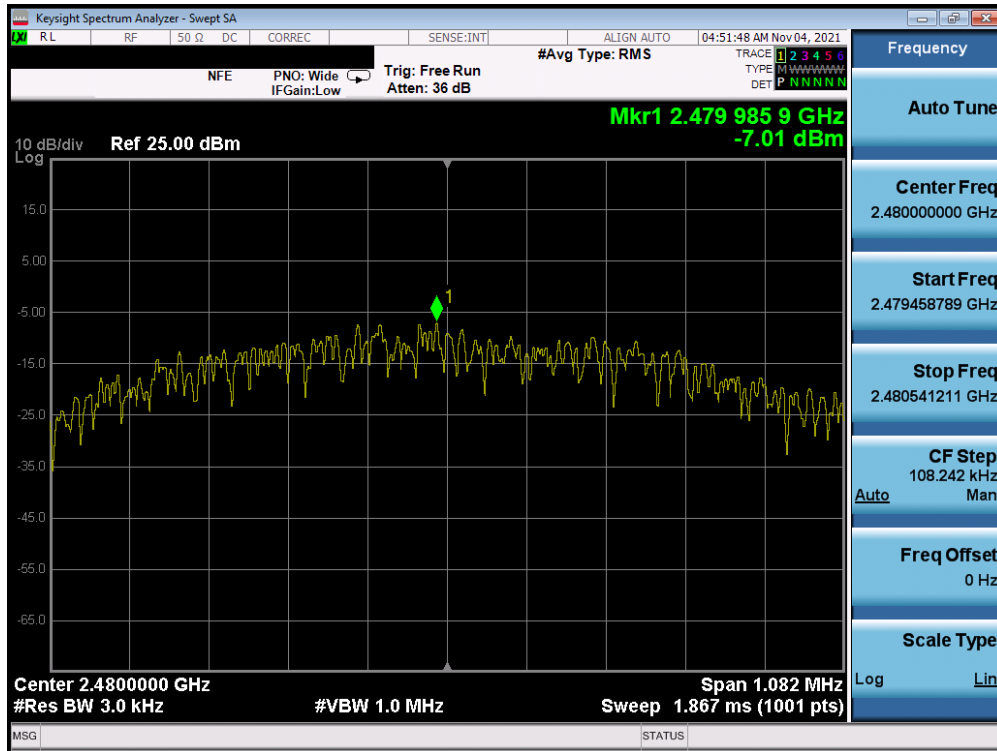


Plot 7-97. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 0) Antenna 1

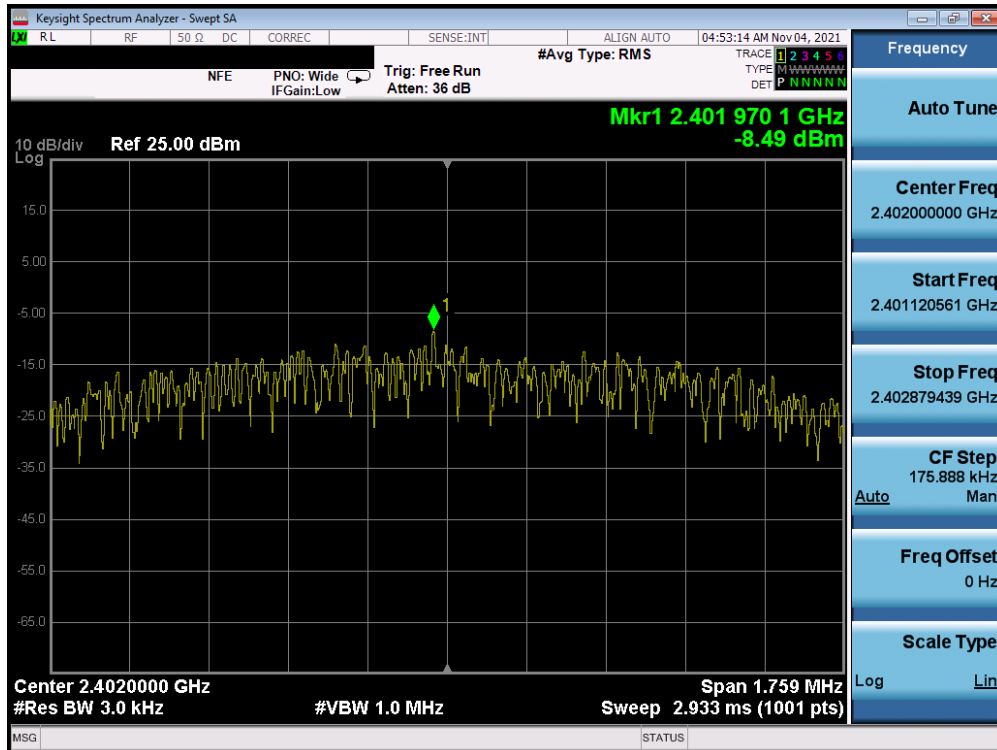


Plot 7-98. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 19) Antenna 1

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 71 of 113

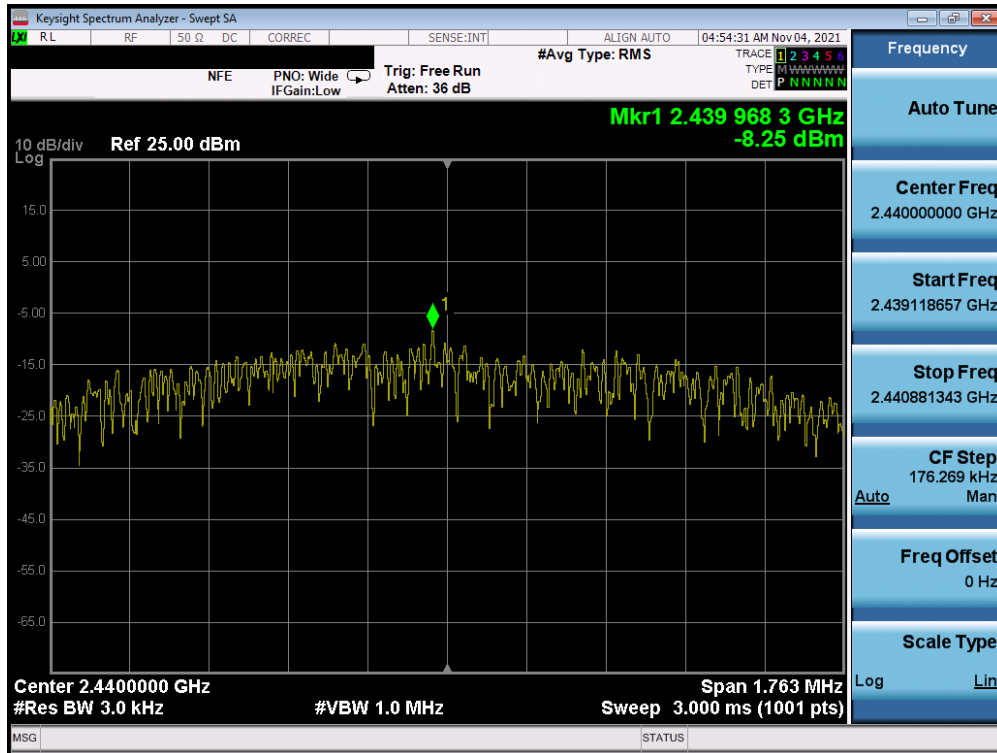


Plot 7-99. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 39) Antenna 1

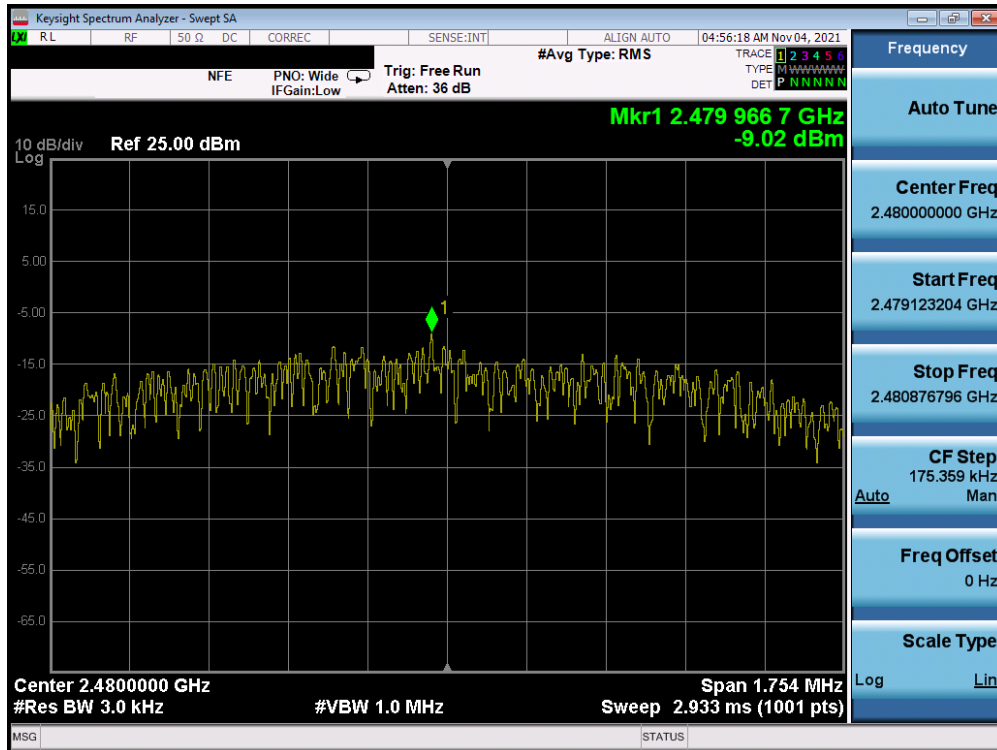


Plot 7-100. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 0) Antenna 1

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 72 of 113

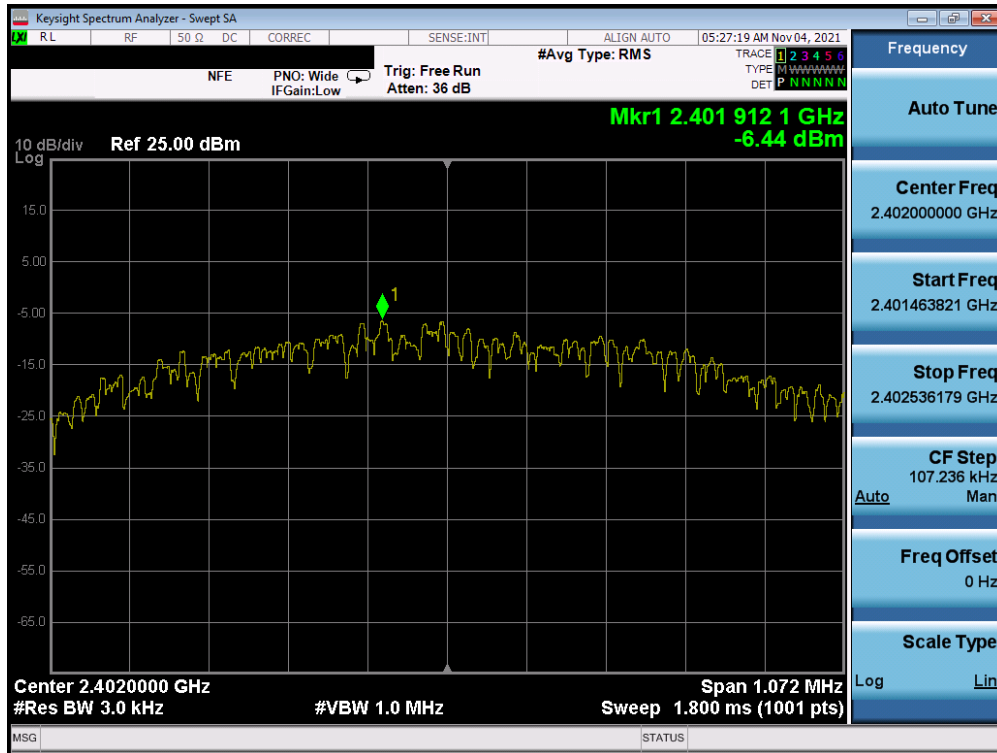


Plot 7-101. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 19) Antenna 1

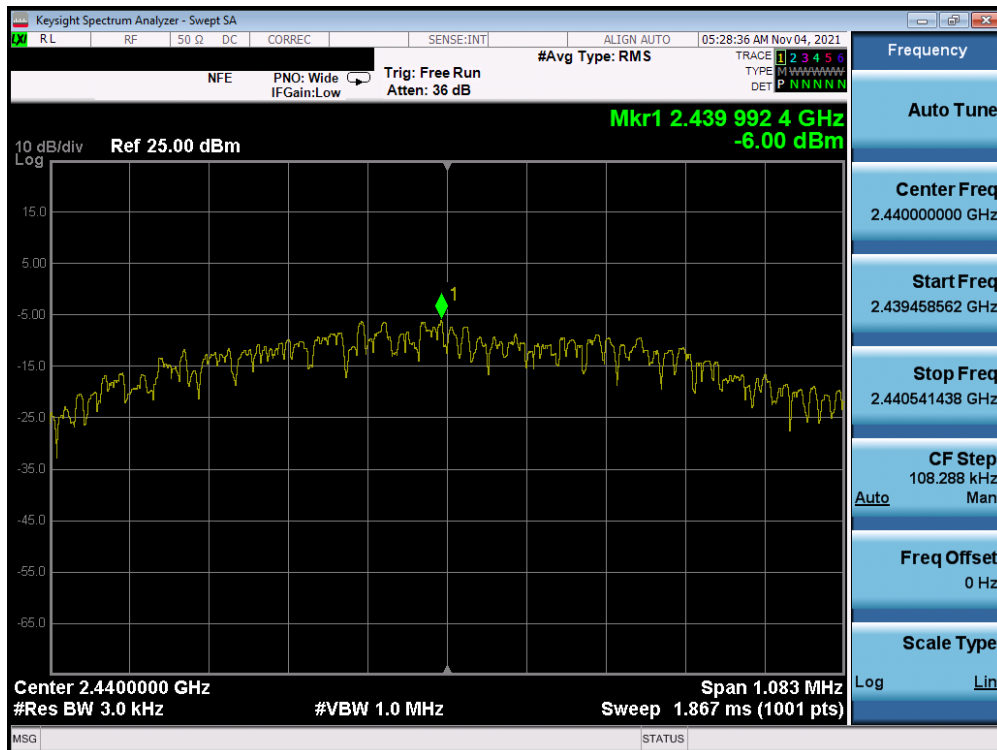


Plot 7-102. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 39) Antenna 1

FCC ID: A3LSMS906U	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 73 of 113

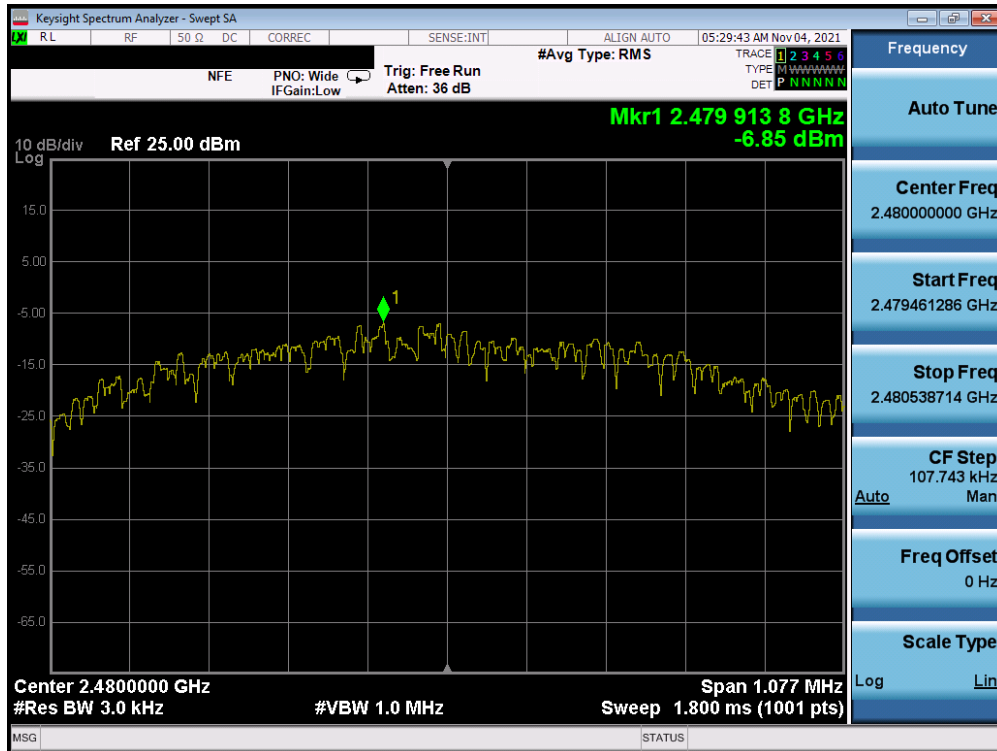


Plot 7-103. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 0) Antenna 2

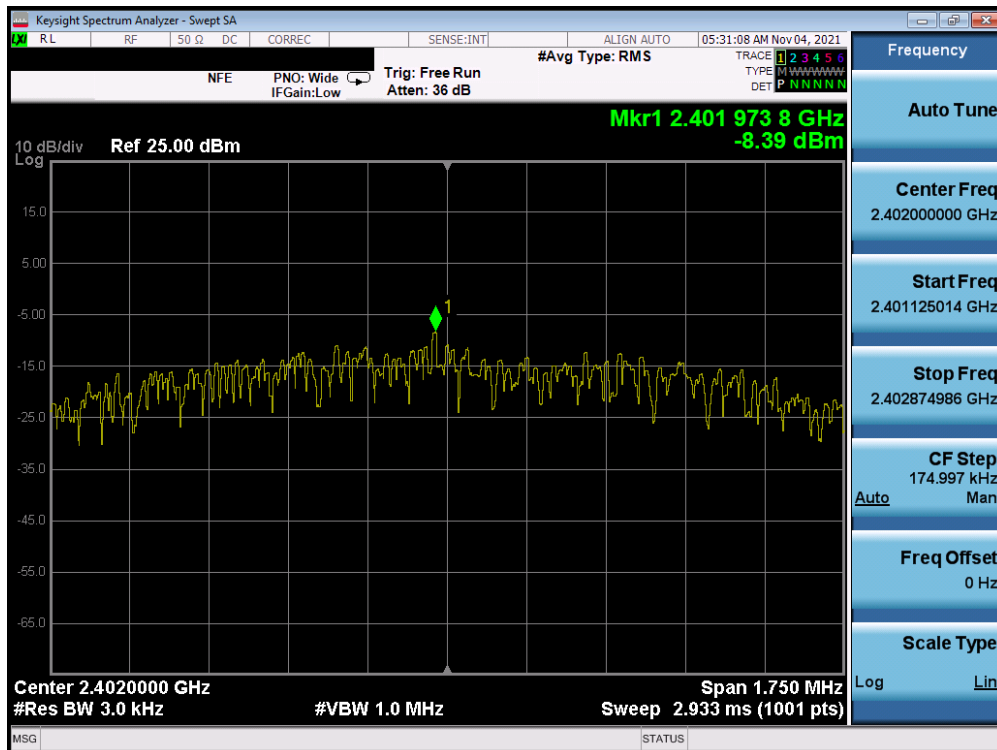


Plot 7-104. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 19) Antenna 2

FCC ID: A3LSMS906U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 74 of 113



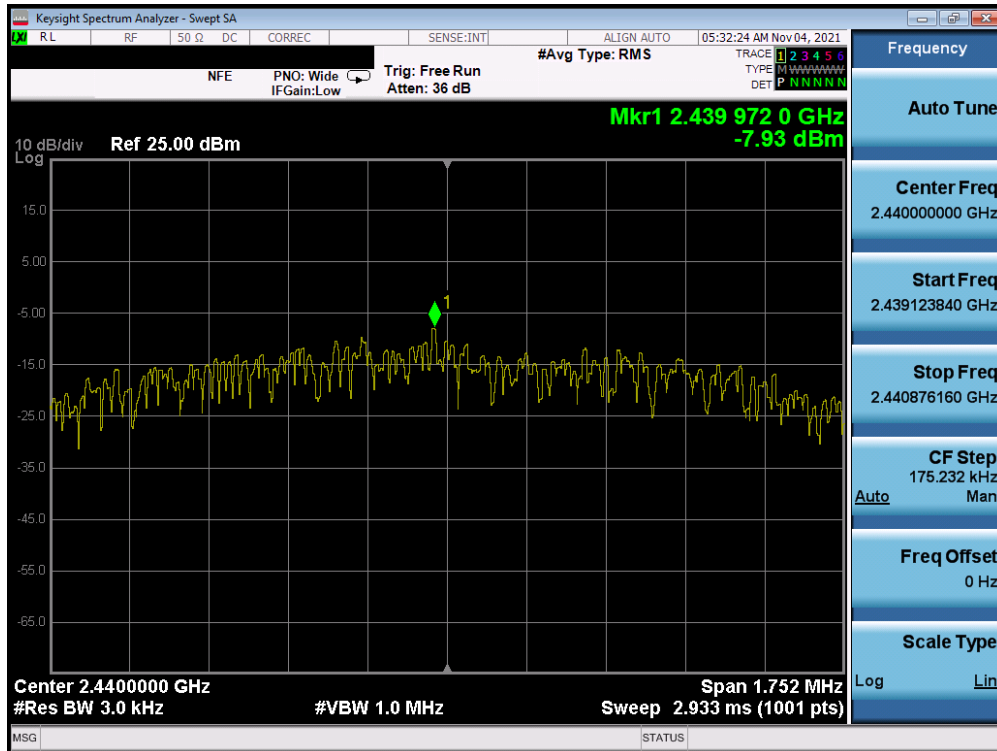
Plot 7-105. Power Spectral Density Plot (Dual Bluetooth (LE), 1Mbps, iPA – Ch. 39) Antenna 2



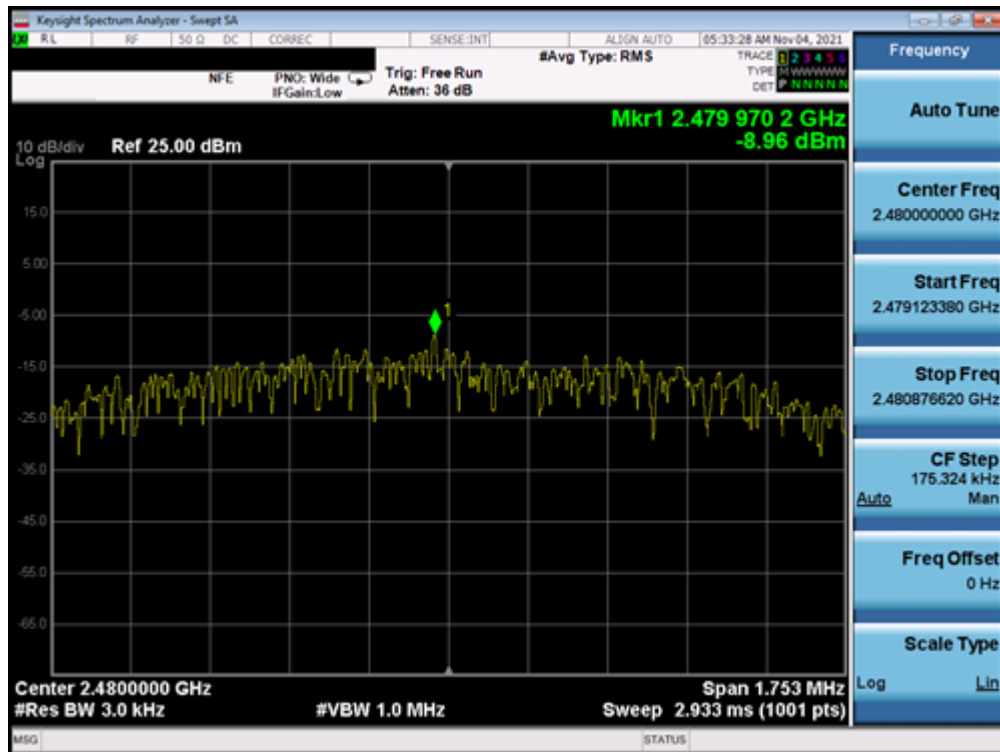
Plot 7-106. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 0) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 75 of 113





Plot 7-107. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 19) Antenna 2



Plot 7-108. Power Spectral Density Plot (Dual Bluetooth (LE), 2Mbps, iPA – Ch. 39) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 76 of 113

## 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.



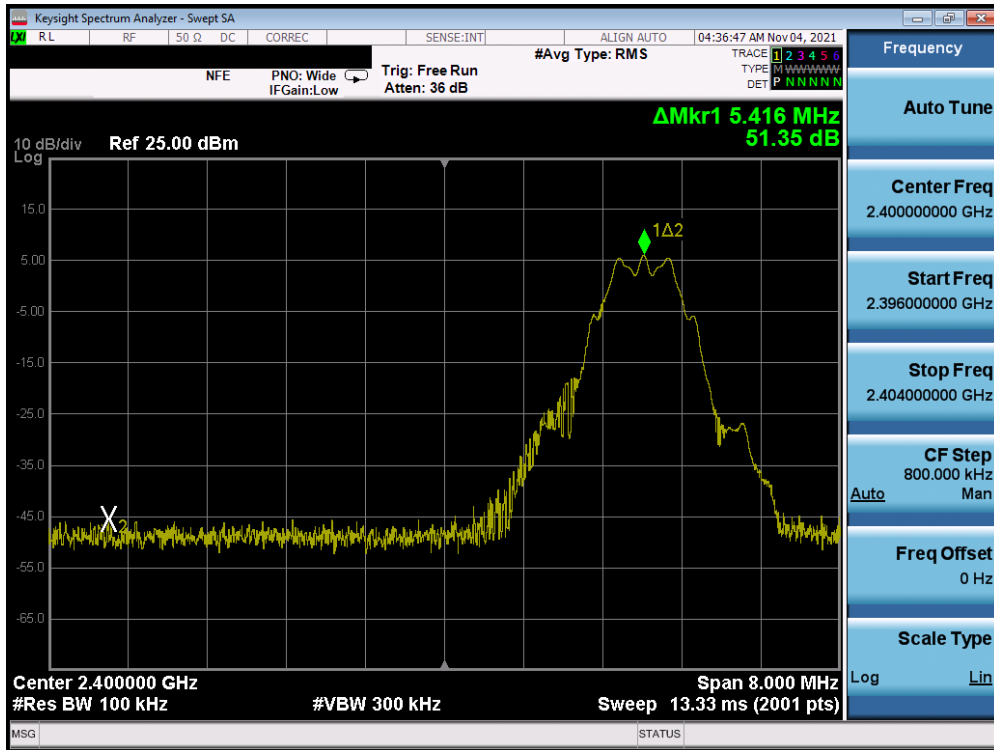
**Figure 7-4. Test Instrument & Measurement Setup**

#### Test Notes

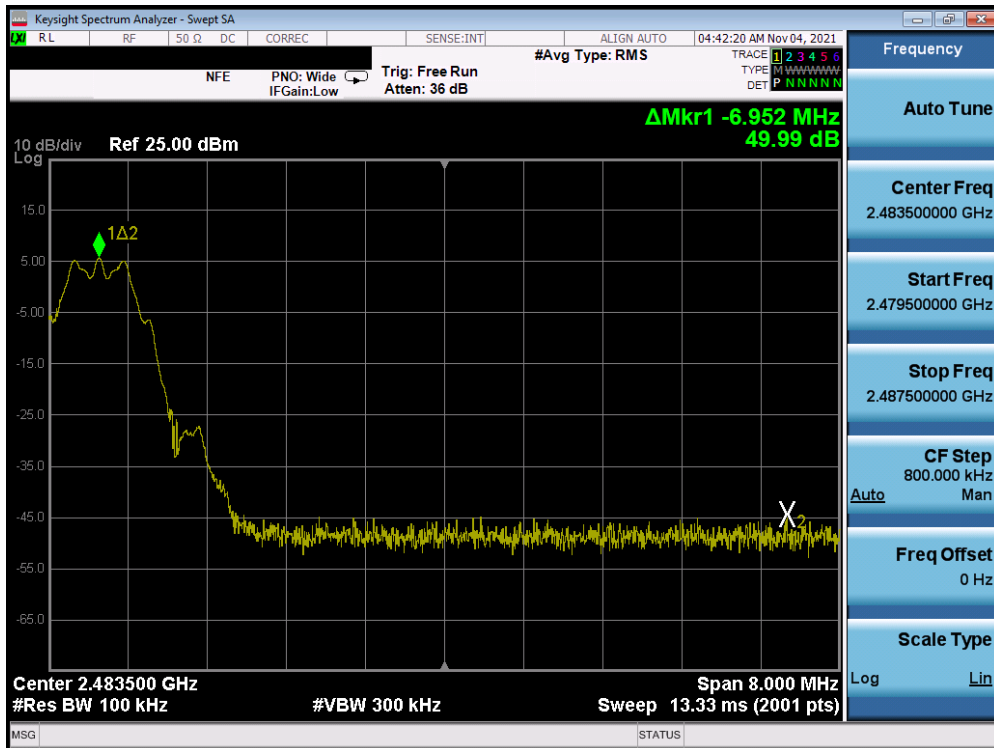
All supported data rates and power schemes have been tested on the unit and only the worst case configuration is reported.

FCC ID: A3LSMS906U	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 77 of 113

**Antenna 1**

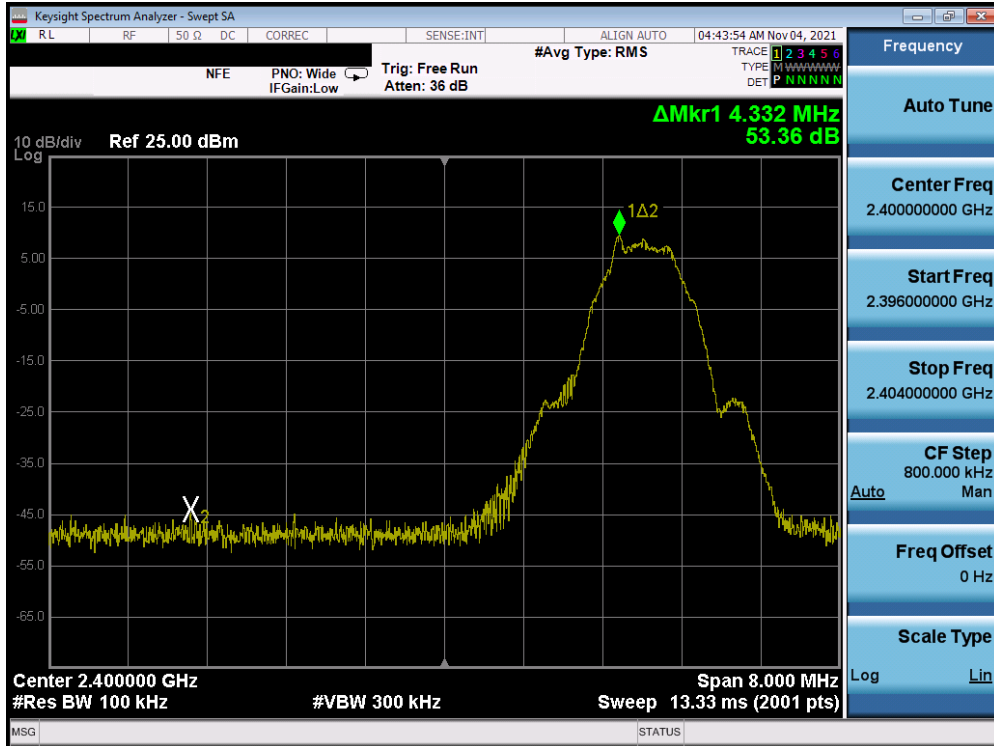


**Plot 7-109. Band Edge Plot (Bluetooth (LE), 125kbps, – Ch. 0) Antenna 1**

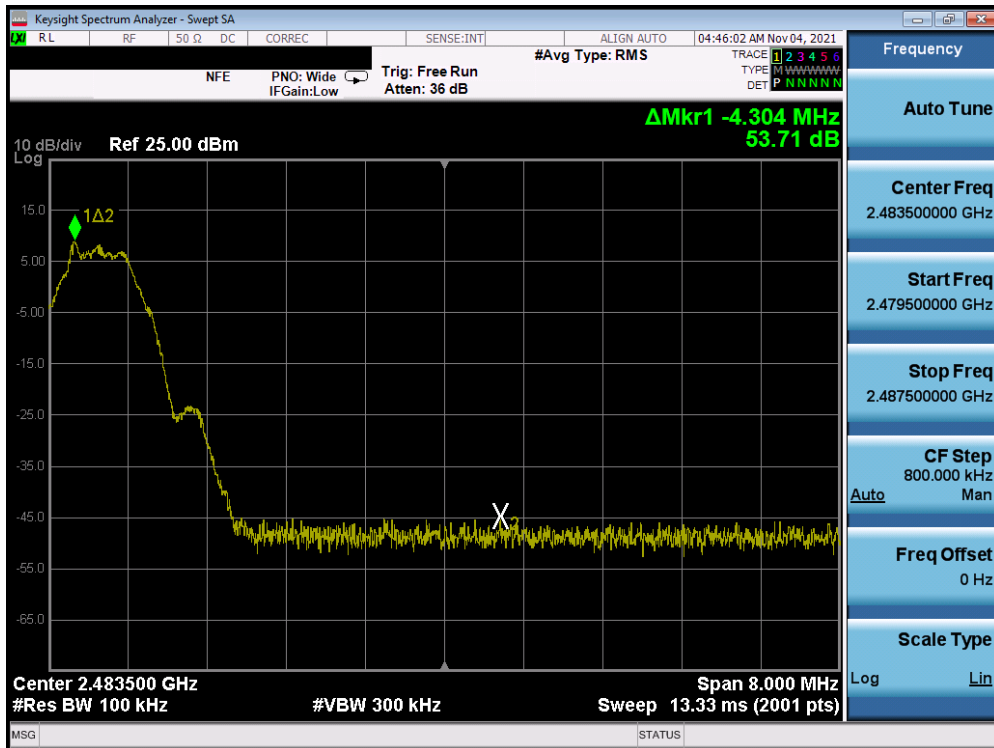


**Plot 7-110. Band Edge Plot (Bluetooth (LE), 125kbps, – Ch. 39) Antenna 1**

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 78 of 113

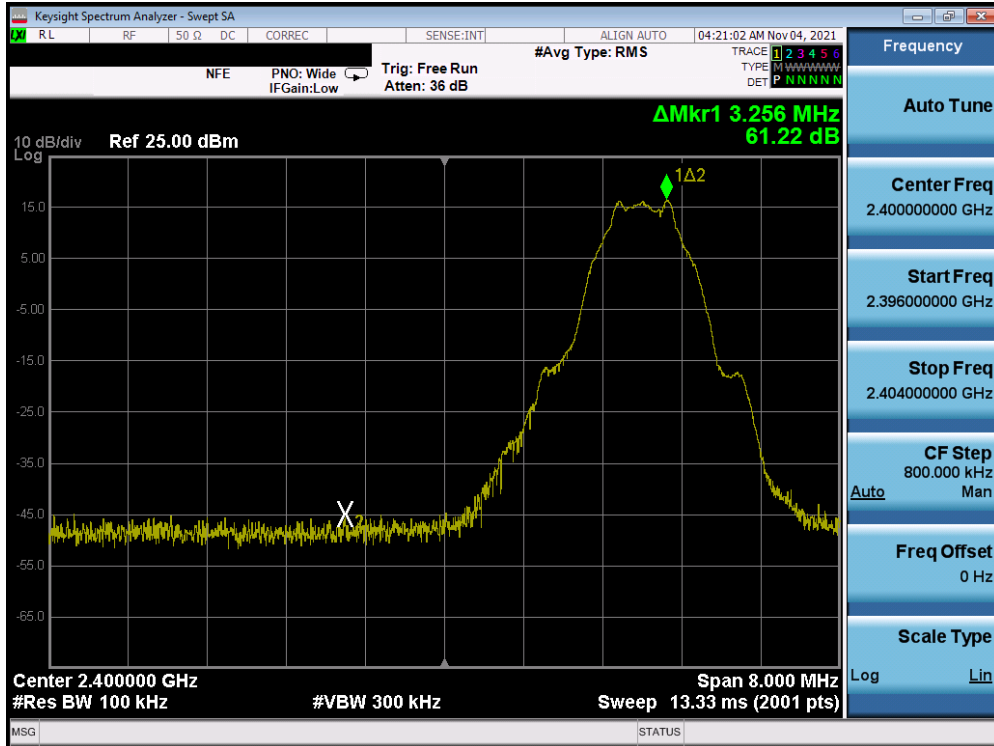


Plot 7-111. Band Edge Plot (Bluetooth (LE), 500kbps, – Ch. 0) Antenna 1

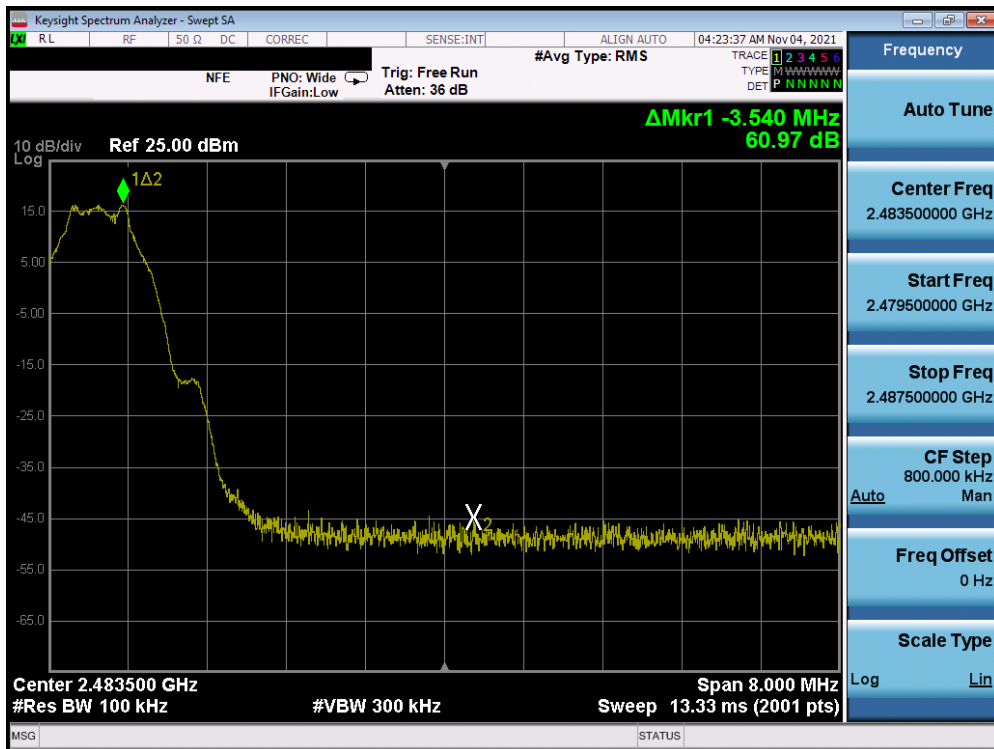


Plot 7-112. Band Edge Plot (Bluetooth (LE), 500kbps, – Ch. 39) Antenna 1

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 79 of 113

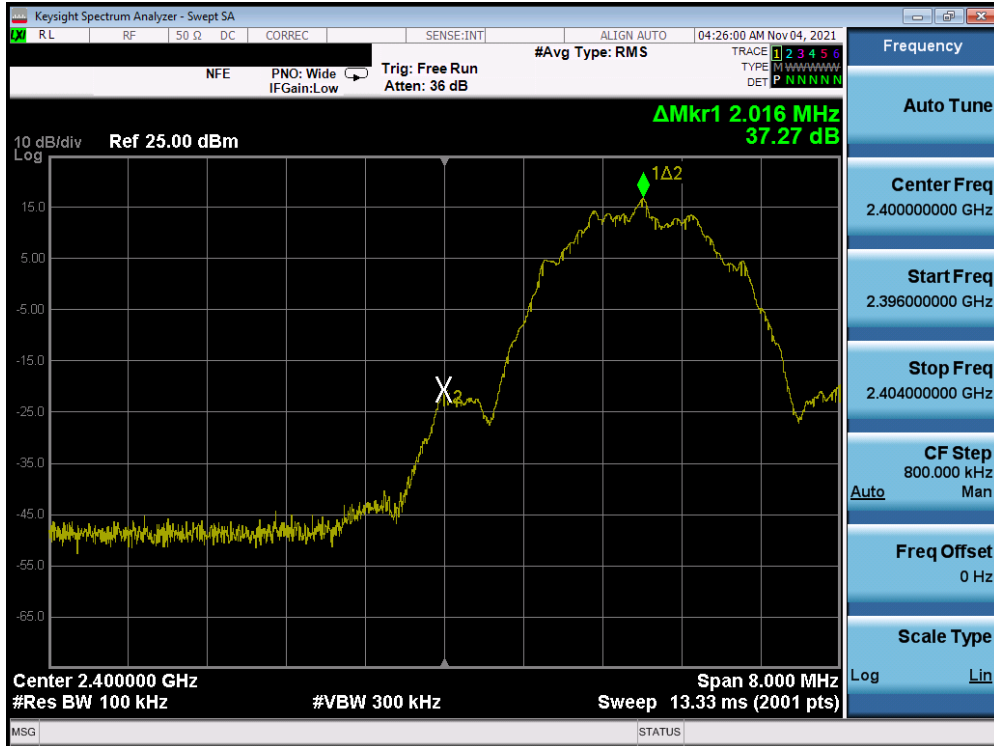


Plot 7-113. Band Edge Plot (Bluetooth (LE), 1Mbps, – Ch. 0) Antenna 1

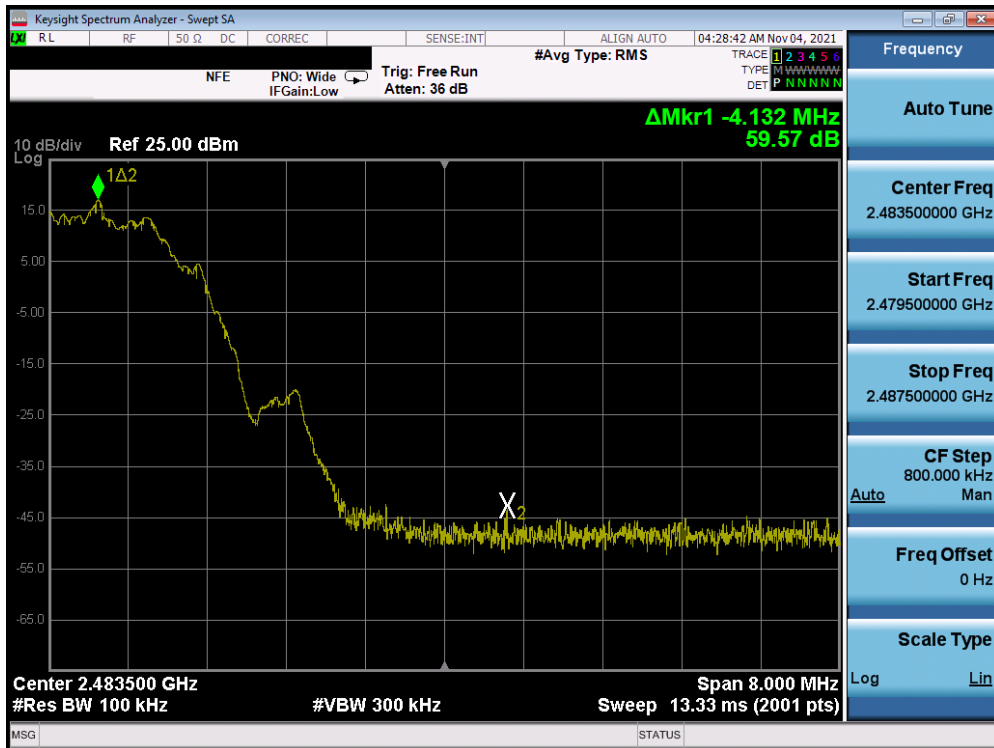


Plot 7-114. Band Edge Plot (Bluetooth (LE), 1Mbps, – Ch. 39) Antenna 1

FCC ID: A3LSMS906U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 80 of 113



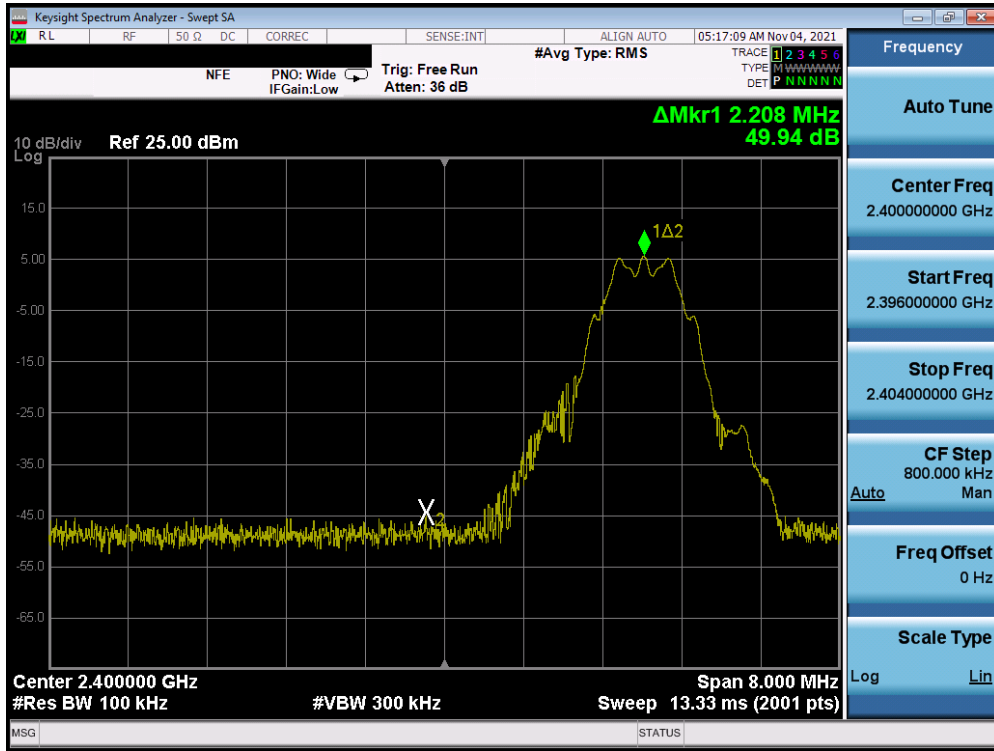
Plot 7-115. Band Edge Plot (Bluetooth (LE), 2Mbps, – Ch. 0) Antenna 1



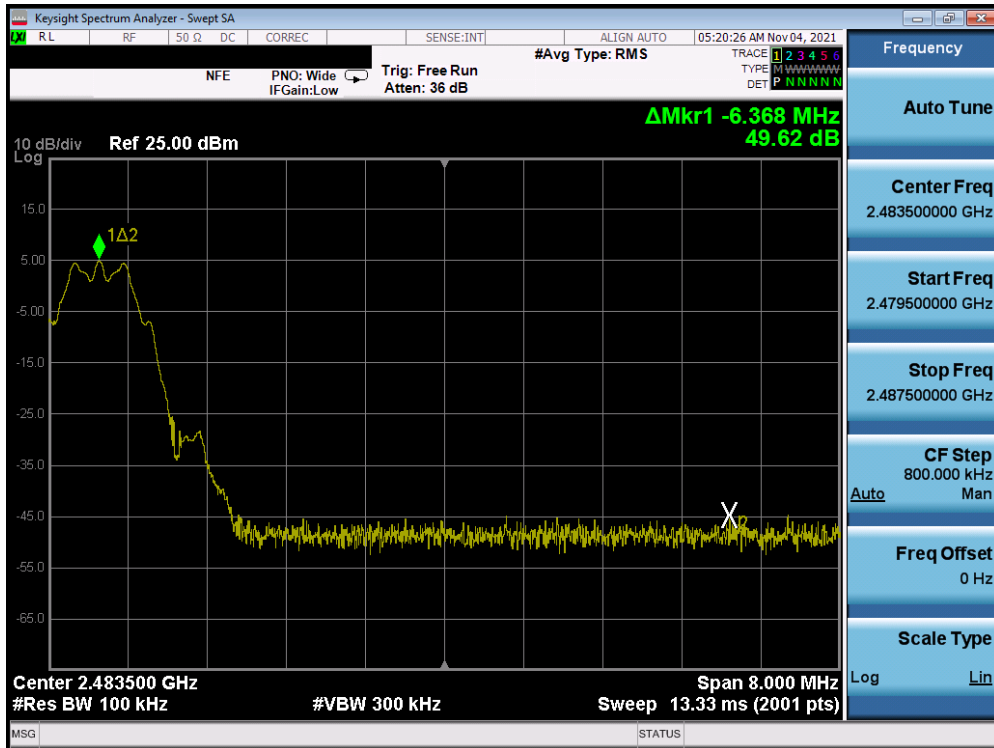
Plot 7-116. Band Edge Plot (Bluetooth (LE), 2Mbps, – Ch. 39) Antenna 1

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 81 of 113

**Antenna 2**



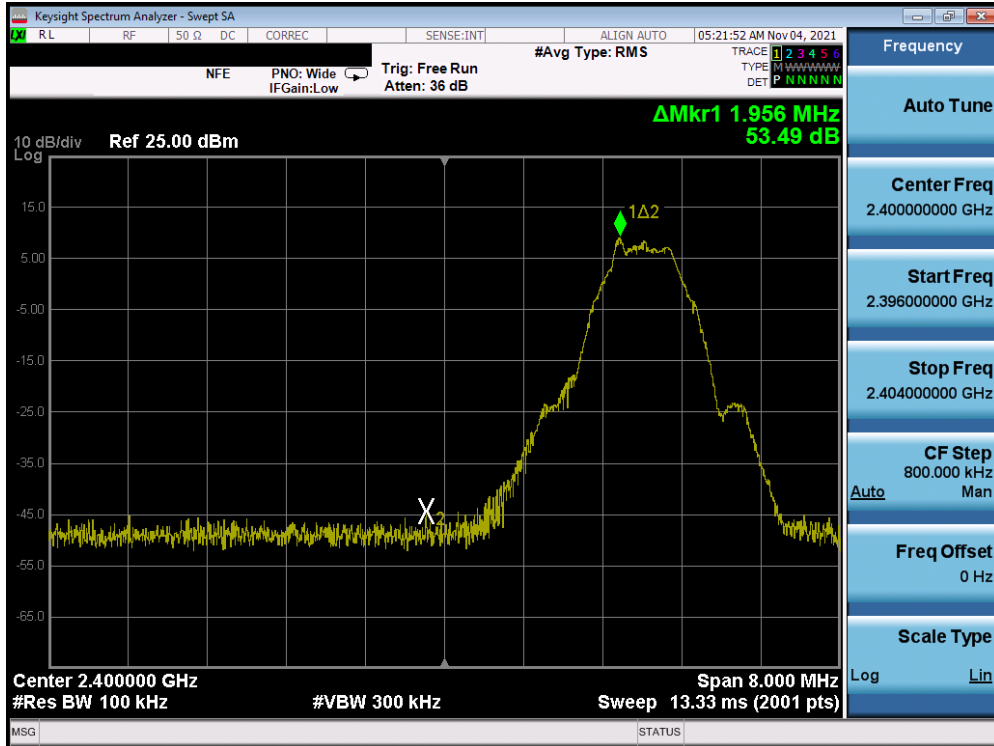
**Plot 7-117. Band Edge Plot (Bluetooth (LE), 125kbps, – Ch. 0) Antenna 2**



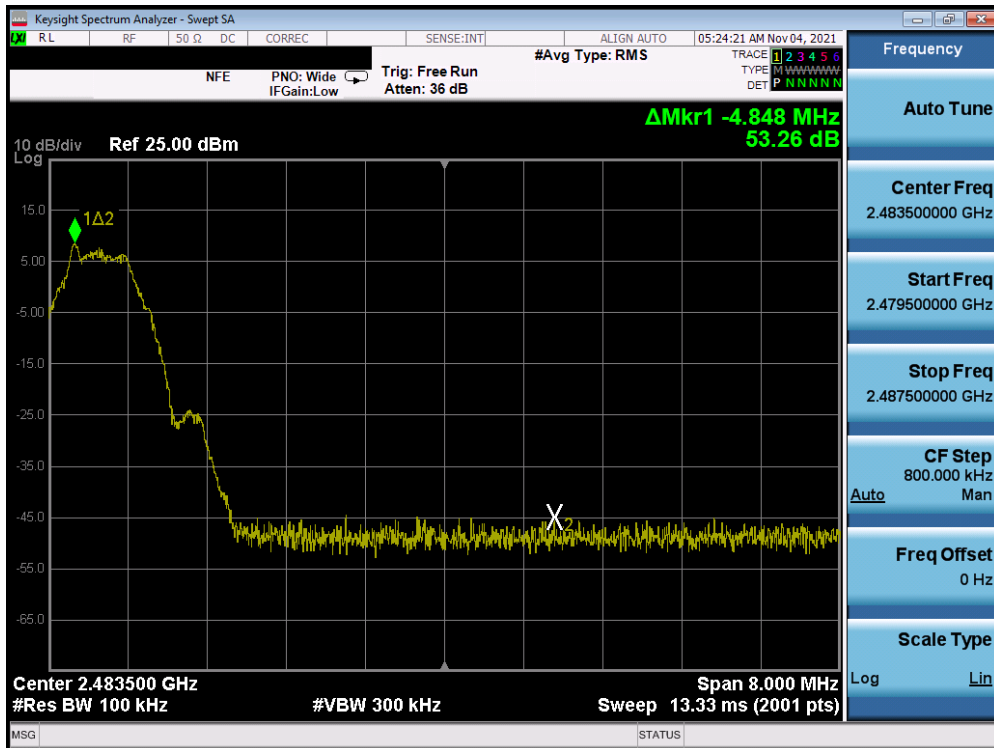
**Plot 7-118. Band Edge Plot (Bluetooth (LE), 125kbps, – Ch. 39) Antenna 2**

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 82 of 113





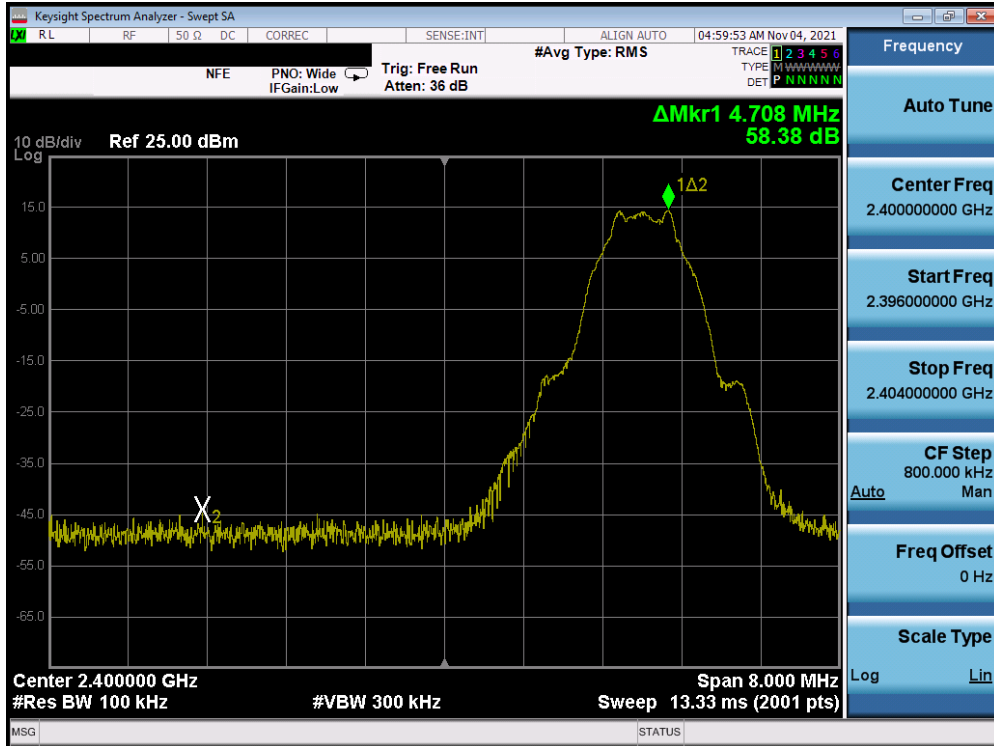
Plot 7-119. Band Edge Plot (Bluetooth (LE), 500kbps, – Ch. 0) Antenna 2



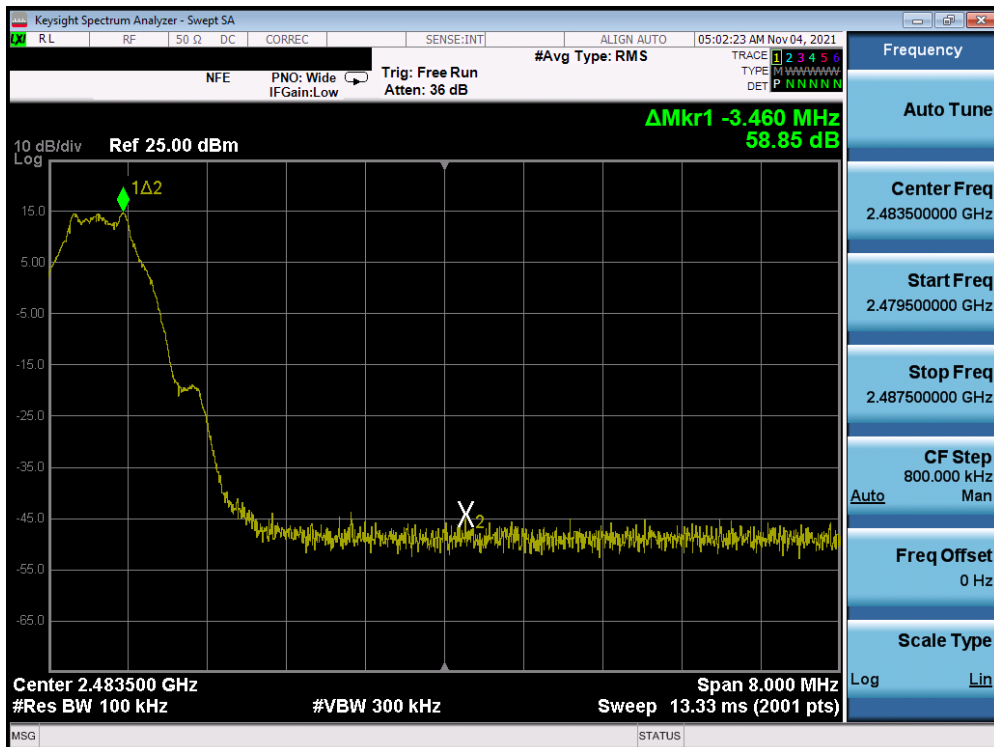
Plot 7-120. Band Edge Plot (Bluetooth (LE), 500kbps, – Ch. 39) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 83 of 113



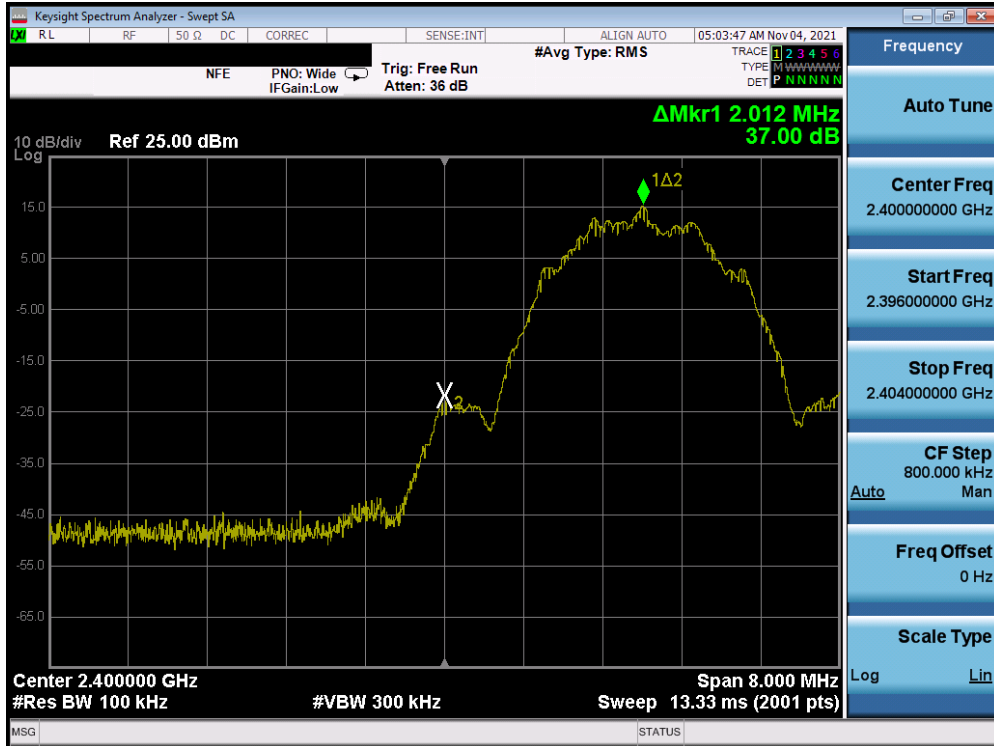


Plot 7-121. Band Edge Plot (Bluetooth (LE), 1Mbps, – Ch. 0) Antenna 2

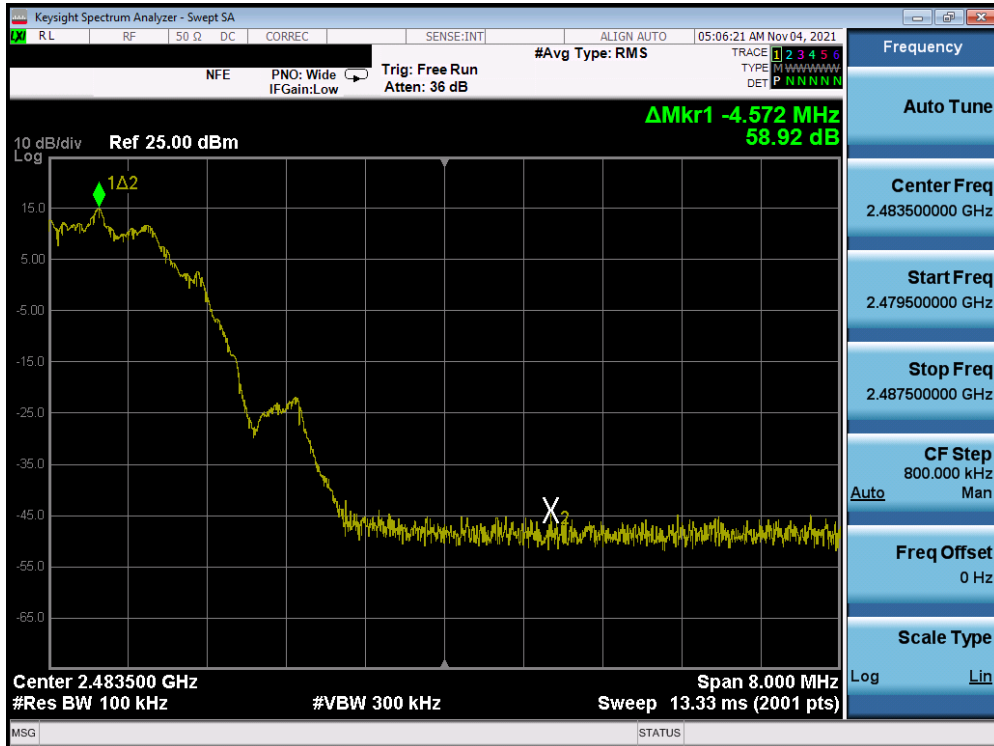


Plot 7-122. Band Edge Plot (Bluetooth (LE), 1Mbps, – Ch. 39) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 84 of 113



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



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

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 85 of 113

## 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**

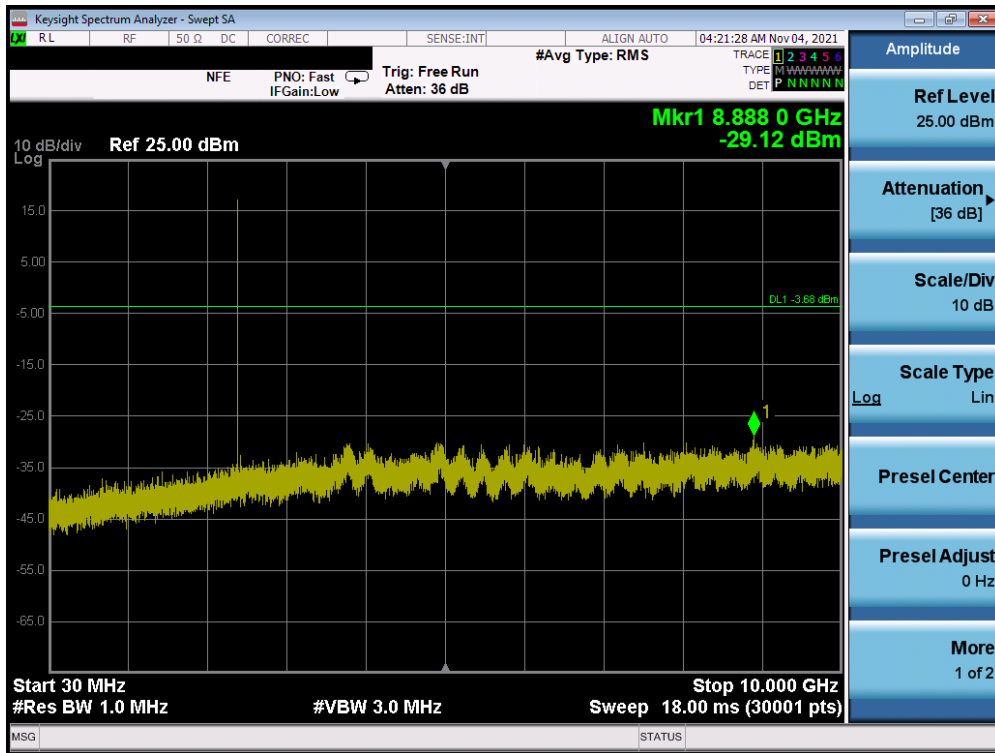
FCC ID: A3LSMS906U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 86 of 113

## Test Notes

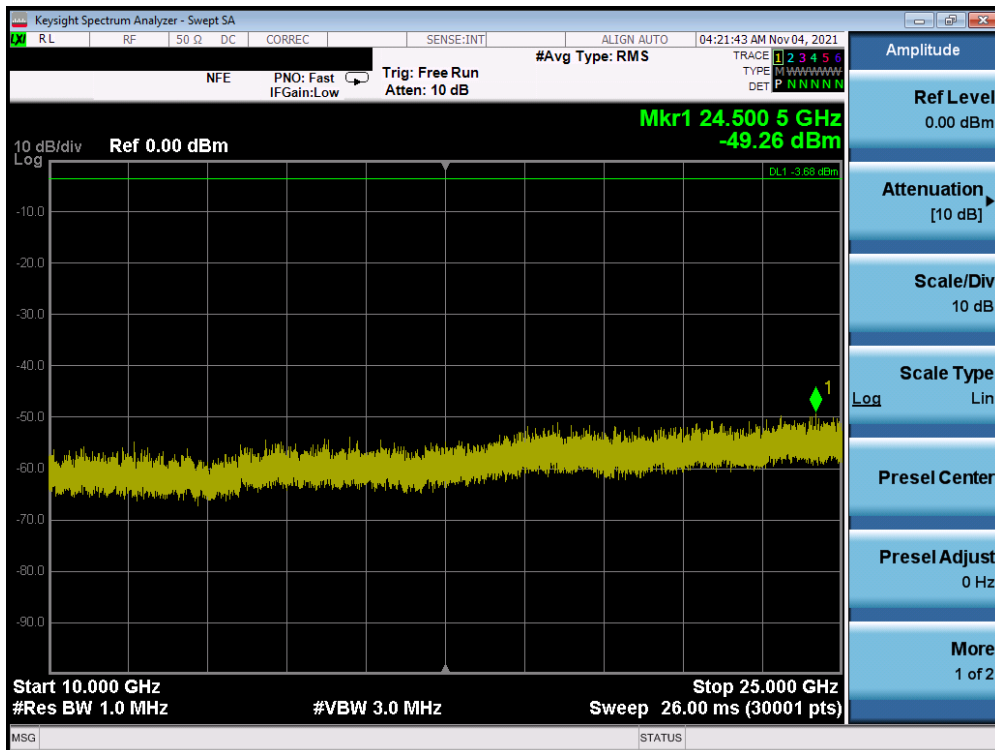
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz 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.
4. All supported data rates and power schemes have been tested on the unit and only worst case configuration is reported.

<b>FCC ID:</b> A3LSMS906U	 Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	 <b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2109090103-17.A3L	<b>Test Dates:</b> 9/22/2021 - 11/11/2021	<b>EUT Type:</b> Portable Handset	Page 87 of 113

**Antenna 1**

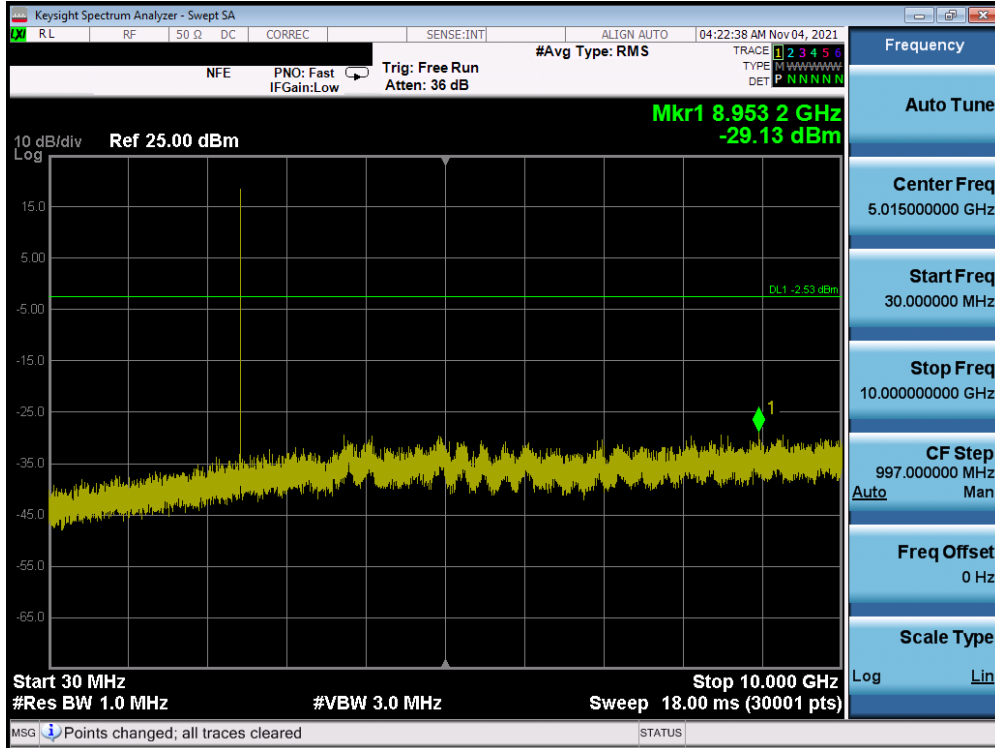


**Plot 7-125. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 0) Antenna 1**

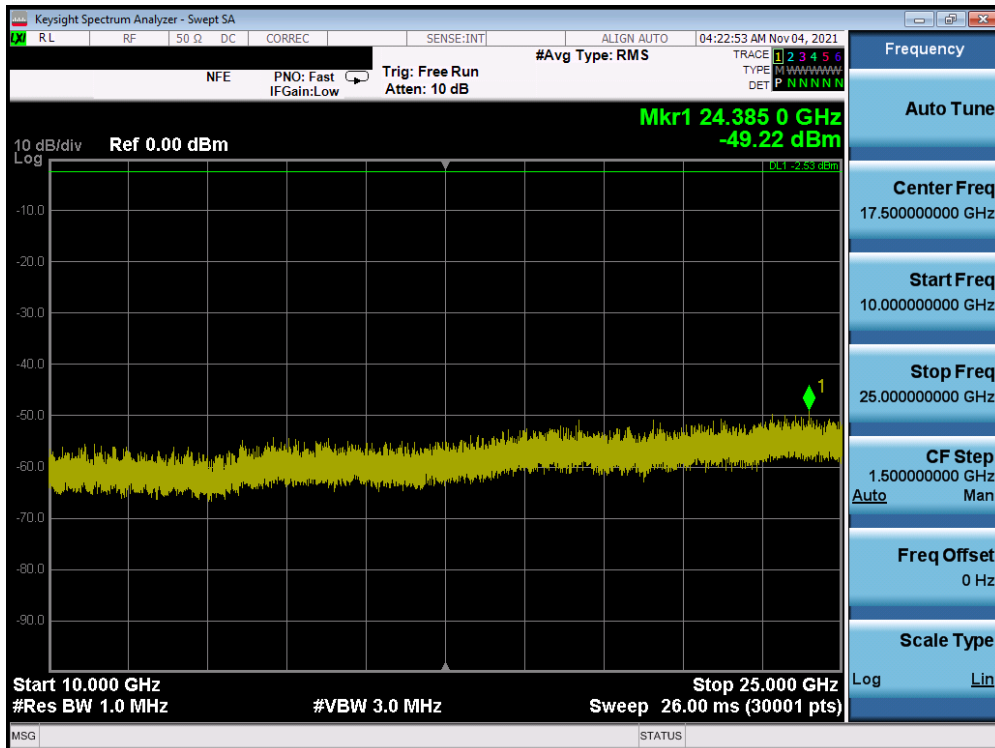


**Plot 7-126. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 0) Antenna 1**

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 88 of 113

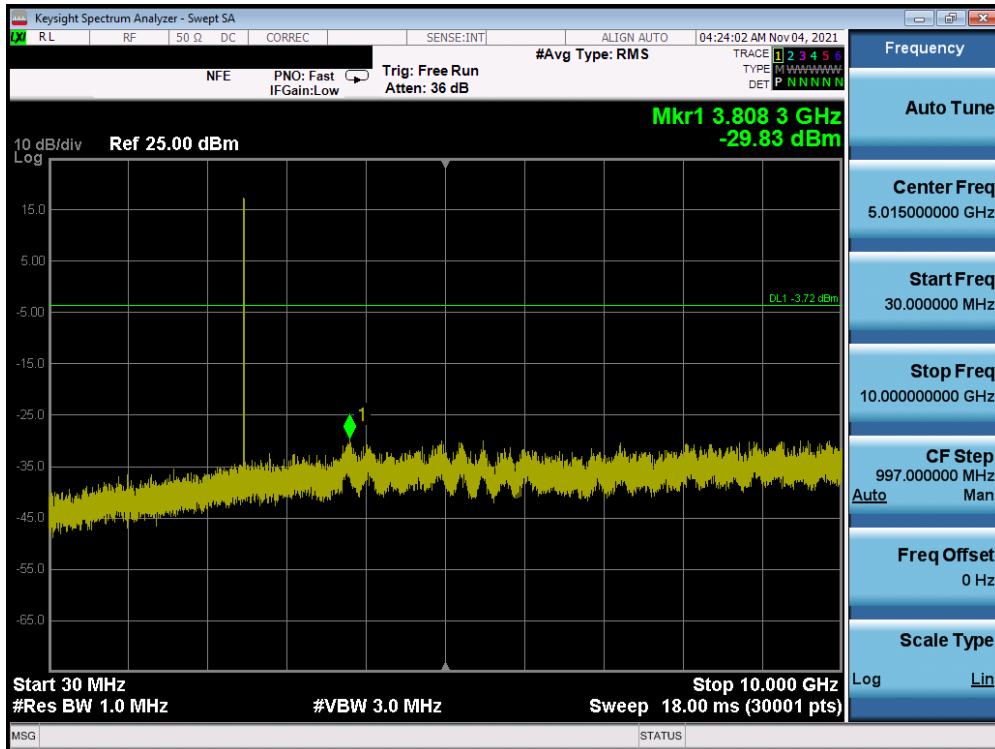


Plot 7-127. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 19) Antenna 1

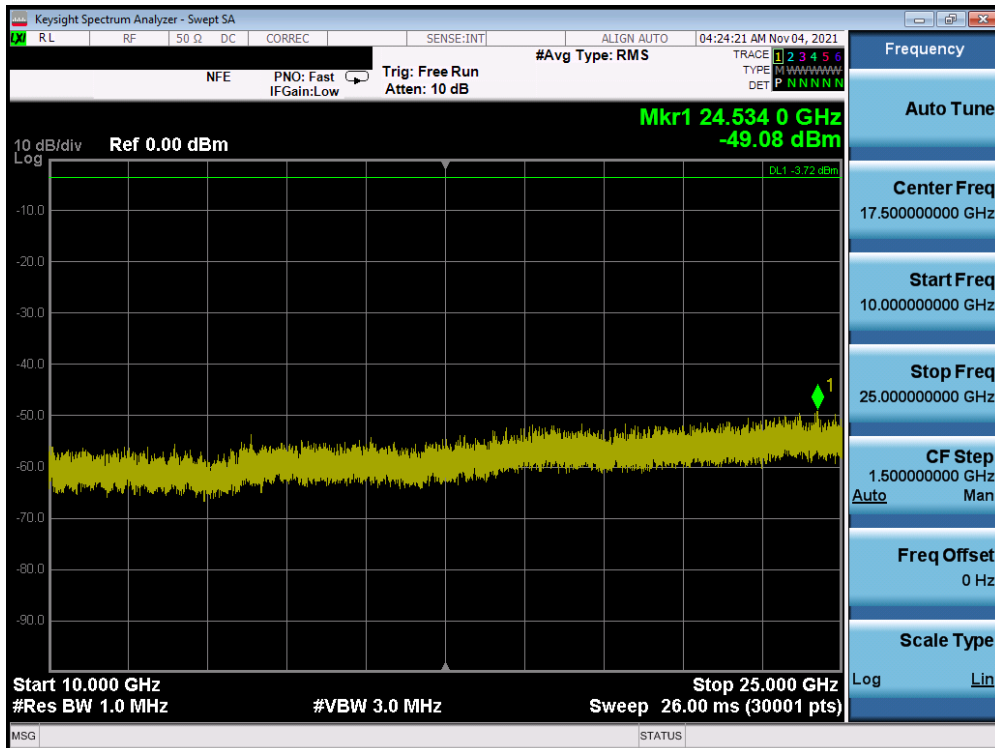


Plot 7-128. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 19) Antenna 1

FCC ID: A3LSMS906U	Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 89 of 113



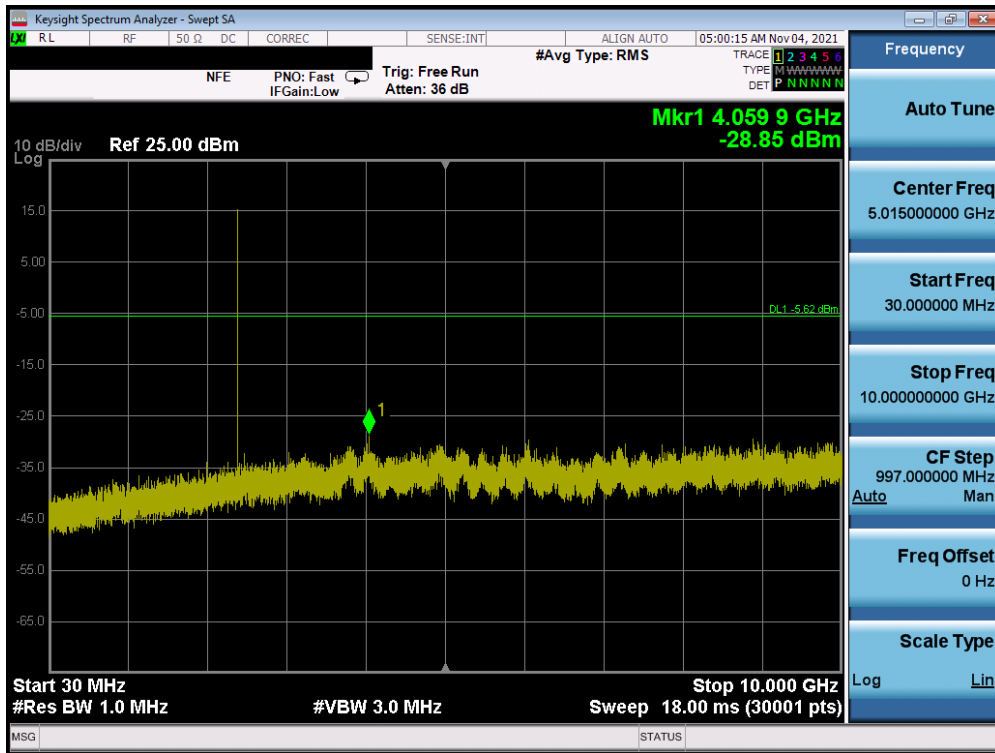
Plot 7-129. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 39) Antenna 1



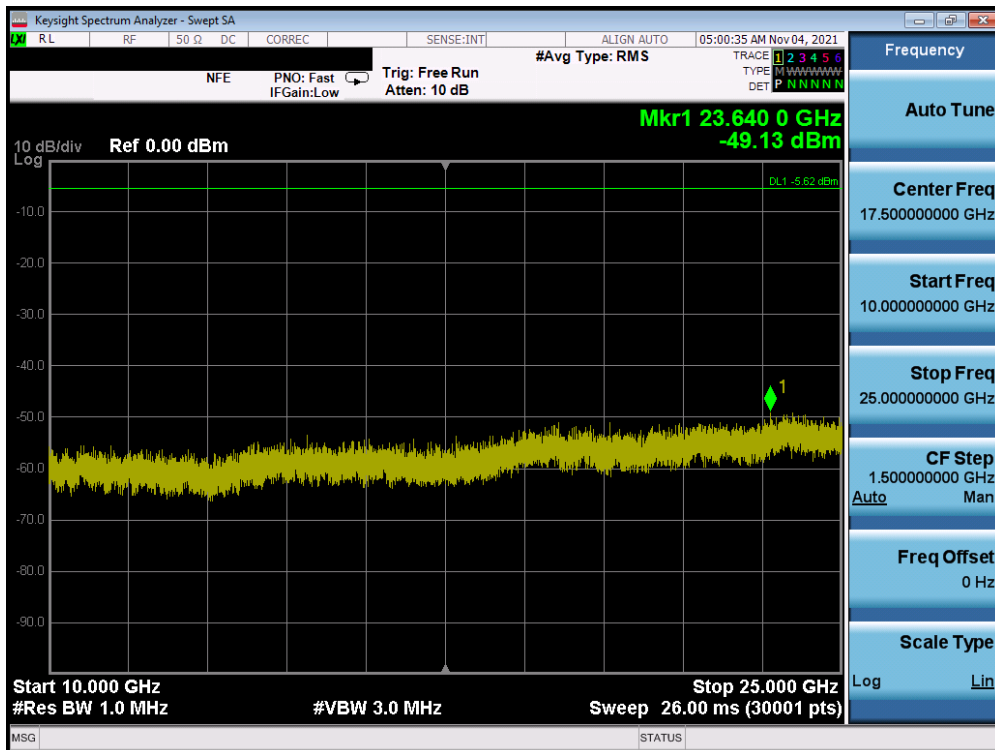
Plot 7-130. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 39) Antenna 1

FCC ID: A3LSMS906U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 90 of 113

**Antenna 2**



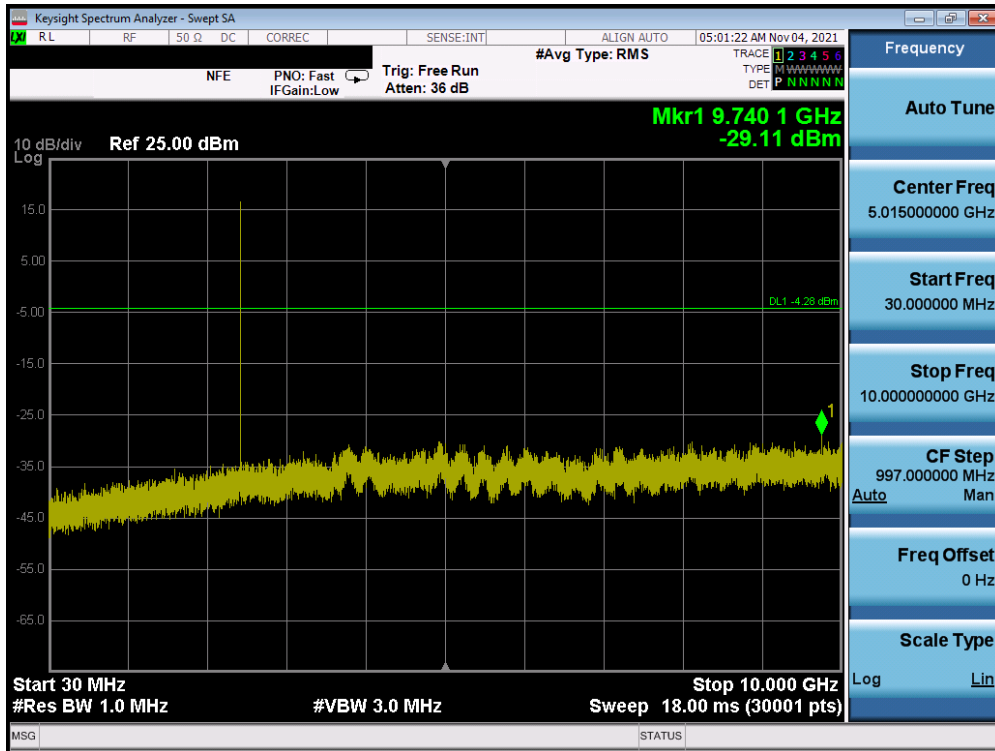
**Plot 7-131. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 0) Antenna 2**



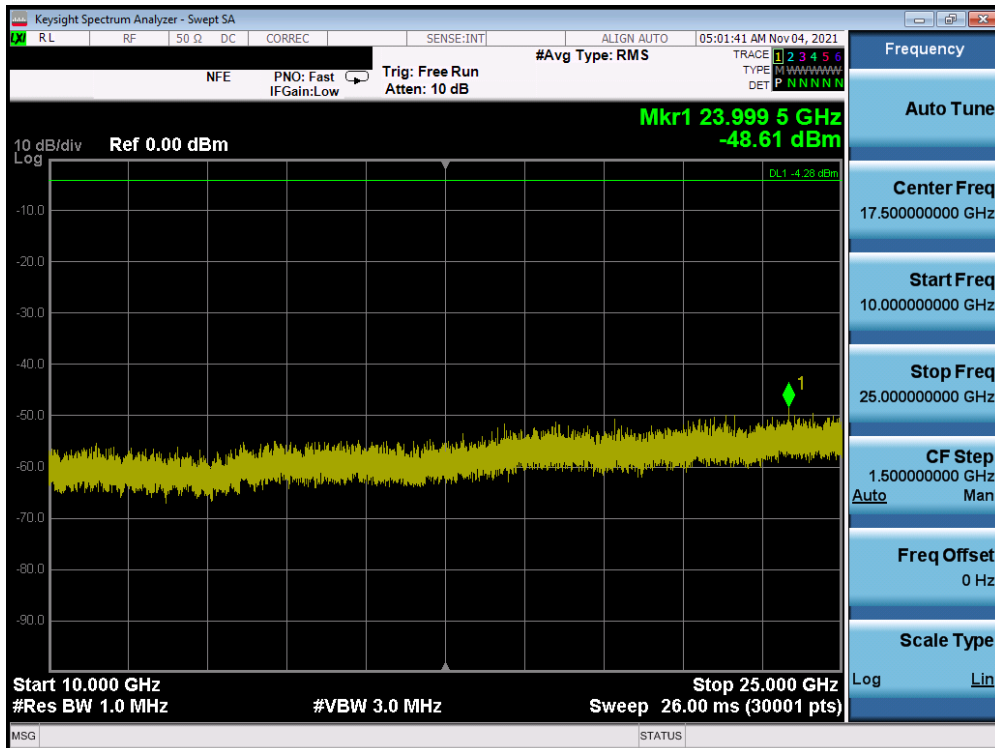
**Plot 7-132. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 0) Antenna 2**

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 91 of 113



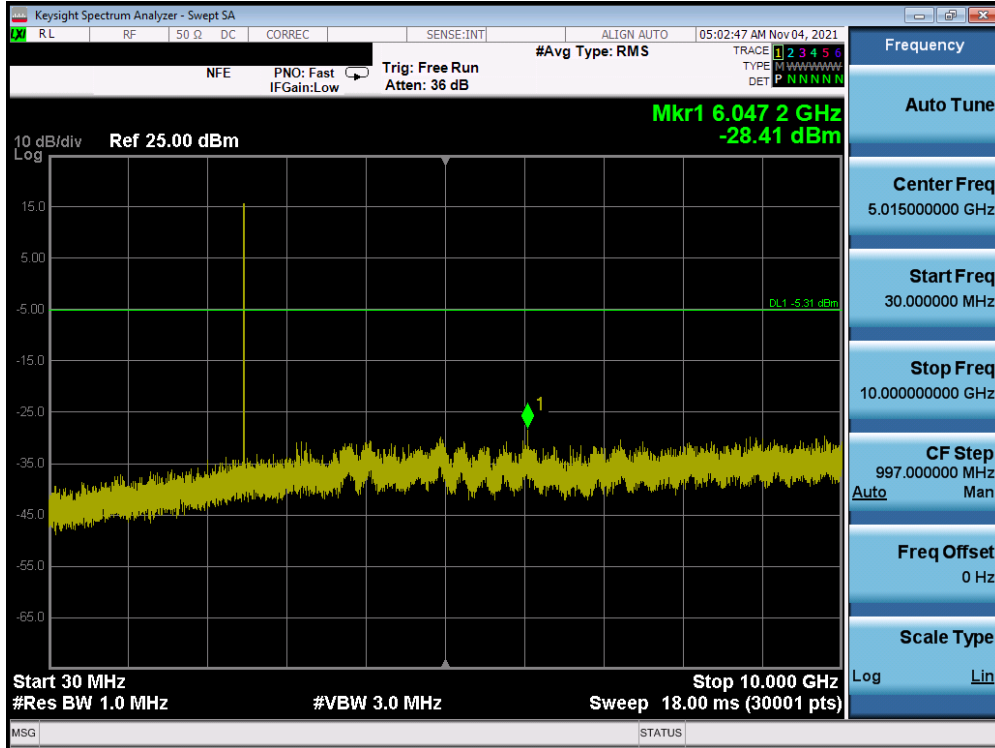


Plot 7-133. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 19) Antenna 2

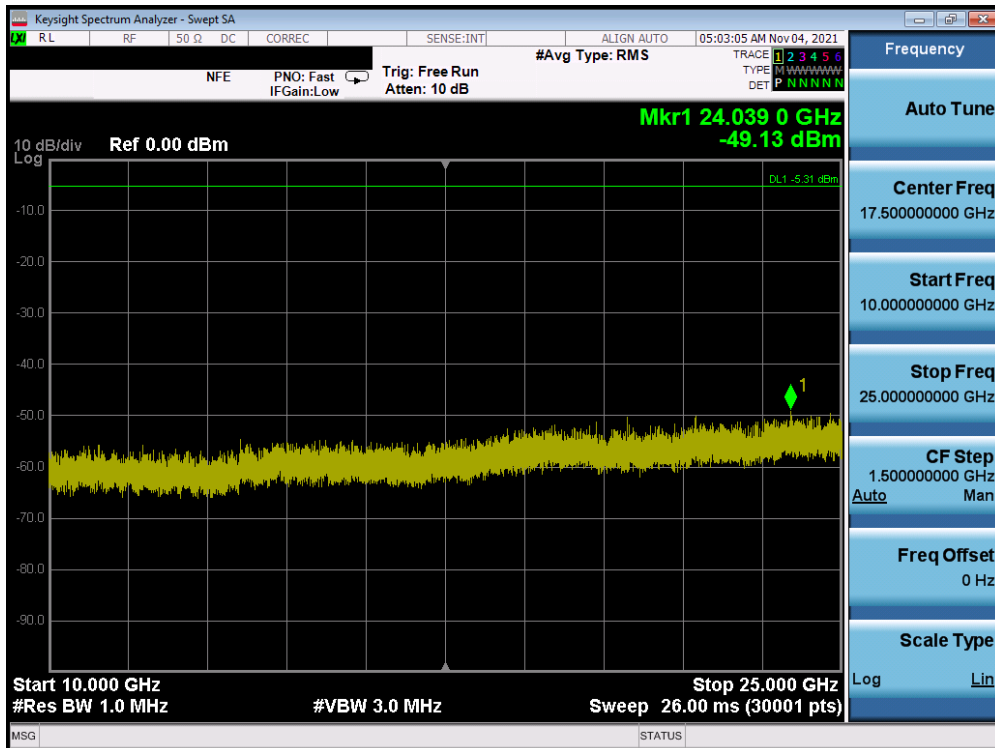


Plot 7-134. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 19) Antenna 2

FCC ID: A3LSMS906U	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-135. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 39) Antenna 2



Plot 7-136. Conducted Spurious Plot (Bluetooth (LE), 1Mbps, ePA – Ch. 39) Antenna 2

FCC ID: A3LSMS906U	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2109090103-17.A3L	Test Dates: 9/22/2021 - 11/11/2021	EUT Type: Portable Handset		Page 93 of 113

## 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 7-10 per Section 15.209 and RSS-Gen (8.9).***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	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 7-10. 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

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### Peak Field Strength Measurements

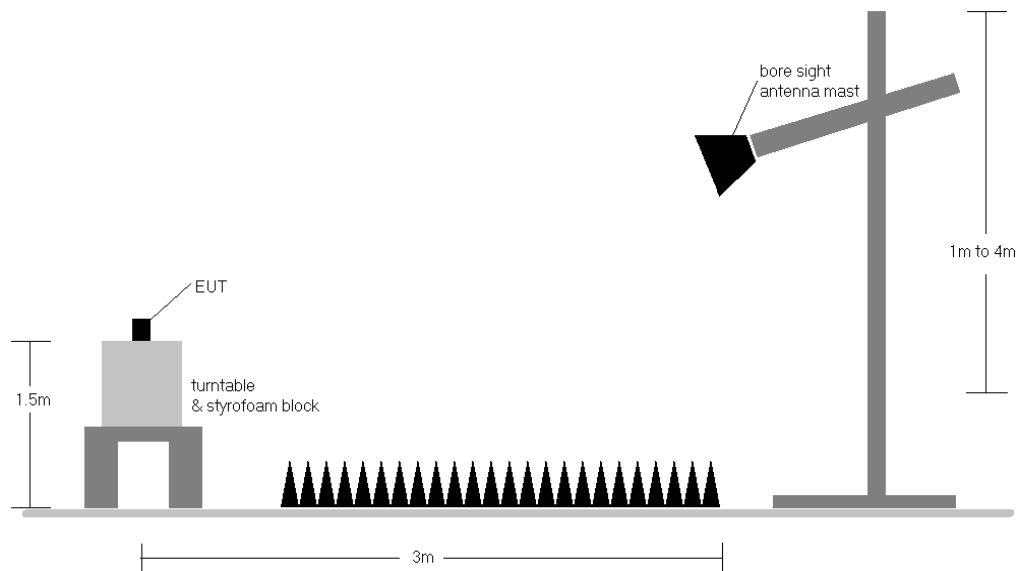
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in Table 7-11 below
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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

**Table 7-11. 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**

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## 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 7-10.
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  $_{[dB_{\mu V/m}]}$  = Analyzer Level  $_{[dBm]}$  + 107 + AFCL  $_{[dB/m]}$
- AFCL  $_{[dB/m]}$  = Antenna Factor  $_{[dB/m]}$  + Cable Loss  $_{[dB]}$
- Margin  $_{[dB]}$  = Field Strength Level  $_{[dB_{\mu V/m}]}$  – 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:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

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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]
4804.00	Avg	H	-	-	-72.01	4.76	39.75	53.98	-14.23
4804.00	Peak	H	-	-	-63.21	4.76	48.55	73.98	-25.43
12010.00	Avg	H	-	-	-73.27	14.63	48.36	53.98	-5.62
12010.00	Peak	H	-	-	-64.01	14.63	57.62	73.98	-16.36

**Table 7-12. Radiated Measurements @ 3 meters – Antenna 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	-	-	-66.47	4.79	45.32	53.98	-8.66
4880.00	Peak	H	-	-	-71.56	4.79	40.23	73.98	-33.75
7320.00	Avg	H	-	-	-72.50	9.48	43.98	53.98	-10.00
7320.00	Peak	H	-	-	-67.88	9.48	48.60	73.98	-25.38
12200.00	Avg	H	-	-	-73.74	13.87	47.13	53.98	-6.85
12200.00	Peak	H	-	-	-68.58	13.87	52.29	73.98	-21.69

**Table 7-13. Radiated Measurements @ 3 meters – Antenna 1**

FCC ID: A3LSMS906U	 PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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: 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]
4960.00	Avg	H	-	-	-71.85	5.01	40.16	53.98	-13.82
4960.00	Peak	H	-	-	-66.27	5.01	45.74	73.98	-28.24
7440.00	Avg	H	-	-	-73.29	9.63	43.34	53.98	-10.64
7440.00	Peak	H	-	-	-67.55	9.63	49.08	73.98	-24.90
12400.00	Avg	H	-	-	-74.56	13.61	46.05	53.98	-7.93
12400.00	Peak	H	-	-	-68.58	13.61	52.03	73.98	-21.95

Table 7-14. Radiated Measurements @ 3 meters – Antenna 1

FCC ID: A3LSMS906U	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4804.00	Avg	H	-	-	-78.20	4.76	33.56	53.98	-20.42
4804.00	Peak	H	-	-	-71.03	4.76	40.73	73.98	-33.25
12010.00	Avg	H	-	-	-81.74	14.63	39.89	53.98	-14.09
12010.00	Peak	H	-	-	-71.06	14.63	50.57	73.98	-23.41

Table 7-15. Radiated Measurements @ 3 meters – Antenna 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 [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
4880.00	Avg	H	-	-	-79.20	4.79	32.59	53.98	-21.39
4880.00	Peak	H	-	-	-68.53	4.79	43.26	73.98	-30.72
7320.00	Avg	H	-	-	-79.74	9.48	36.74	53.98	-17.24
7320.00	Peak	H	-	-	-69.69	9.48	46.79	73.98	-27.19
12200.00	Avg	H	-	-	-81.66	13.87	39.21	53.98	-14.77
12200.00	Peak	H	-	-	-71.27	13.87	49.60	73.98	-24.38

Table 7-16. Radiated Measurements @ 3 meters – Antenna 2

FCC ID: A3LSMS906U	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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: 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]
4960.00	Avg	H	-	-	-79.18	5.01	32.83	53.98	-21.15
4960.00	Peak	H	-	-	-68.31	5.01	43.70	73.98	-30.28
7440.00	Avg	H	-	-	-80.38	9.63	36.25	53.98	-17.73
7440.00	Peak	H	-	-	-69.55	9.63	47.08	73.98	-26.90
12400.00	Avg	H	-	-	-81.50	13.61	39.11	53.98	-14.87
12400.00	Peak	H	-	-	-71.51	13.61	49.10	73.98	-24.88

Table 7-17. Radiated Measurements @ 3 meters – Antenna 2

FCC ID: A3LSMS906U	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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]
4804.00	Avg	H	-	-	-72.00	4.76	39.76	53.98	-14.22
4804.00	Peak	H	-	-	-65.89	4.76	45.87	73.98	-28.11
12010.00	Avg	H	-	-	-73.52	14.63	48.11	53.98	-5.87
12010.00	Peak	H	-	-	-68.68	14.63	52.95	73.98	-21.03

**Table 7-18. Radiated Measurements @ 3 meters – Dual**

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	-	-	-70.88	4.79	40.91	53.98	-13.07
4880.00	Peak	H	-	-	-66.03	4.79	45.76	73.98	-28.22
7320.00	Avg	H	-	-	-71.67	9.48	44.81	53.98	-9.17
7320.00	Peak	H	-	-	-67.79	9.48	48.69	73.98	-25.29
12200.00	Avg	H	-	-	-72.94	13.87	47.93	53.98	-6.05
12200.00	Peak	H	-	-	-68.64	13.87	52.23	73.98	-21.75

**Table 7-19. Radiated Measurements @ 3 meters – Dual**

FCC ID: A3LSMS906U	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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: 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]
4960.00	Avg	H	-	-	-72.00	5.01	40.01	53.98	-13.97
4960.00	Peak	H	-	-	-65.78	5.01	46.23	73.98	-27.75
7440.00	Avg	H	-	-	-72.55	9.63	44.08	53.98	-9.90
7440.00	Peak	H	-	-	-67.53	9.63	49.10	73.98	-24.88
12400.00	Avg	H	-	-	-73.44	13.61	47.17	53.98	-6.81
12400.00	Peak	H	-	-	-68.94	13.61	51.67	73.98	-22.31

Table 7-20. Radiated Measurements @ 3 meters – Dual

FCC ID: A3LSMS906U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## 7.8 Radiated Restricted Band Edge Measurements

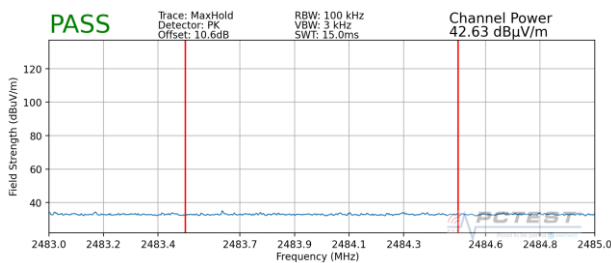
### §15.205 §15.209; RSS-Gen [8.9]

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

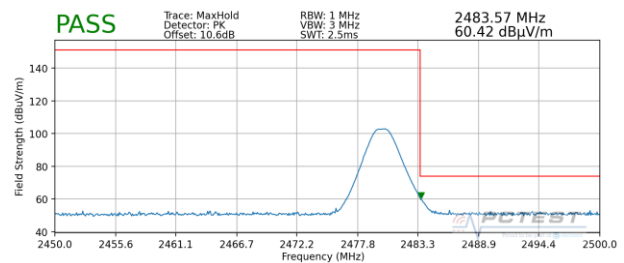
The amplitude offset shown in the following plots for average measurements was calculated using the formula:

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

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

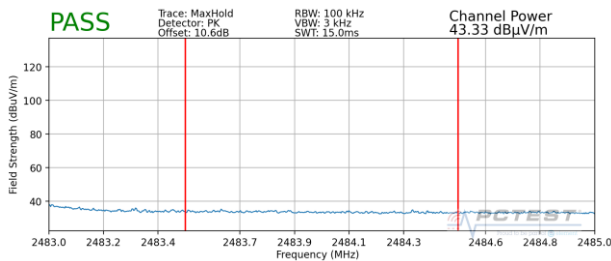


**Plot 7-137. Radiated Restricted Upper Band Edge Measurement (Average) – Antenna 1**

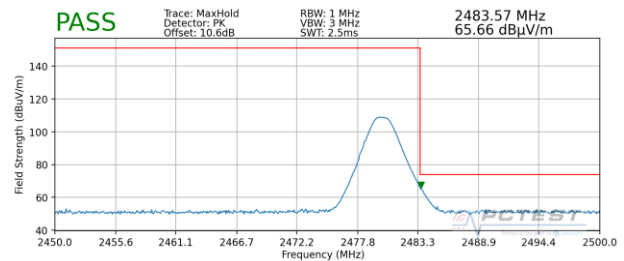


**Plot 7-138. Radiated Restricted Upper Band Edge Measurement (Peak) – Antenna 1**

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



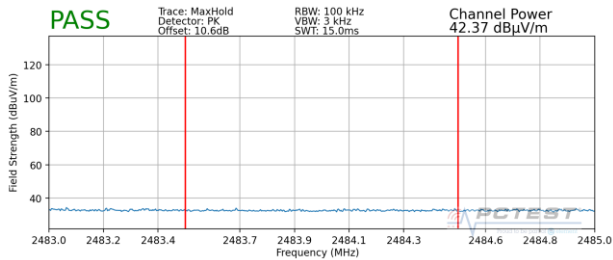
**Plot 7-139. Radiated Restricted Upper Band Edge Measurement (Average) – Antenna 2**



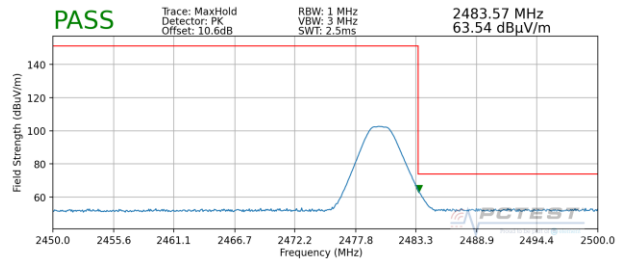
**Plot 7-140. Radiated Restricted Upper Band Edge Measurement (Peak) – Antenna 2**

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



**Plot 7-141. Radiated Restricted Upper Band Edge Measurement (Average) – Dual**



**Plot 7-142. Radiated Restricted Upper Band Edge Measurement (Peak) – Dual**

**Note:**

A channel integration method was used to determine compliance with the out of band average radiated spurious emissions limit in the 2483.5 – 2500MHz band. Per KDB 558074 D01 v05r02 Section 8.7.3 and ANSI C63.10-2013 Section 11.13.3.3, a measurement was performed using a RBW of 100kHz at the 2483.5MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

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## 7.9 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 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (8.9).**

Frequency	Field Strength [ $\mu\text{V/m}$ ]	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 7-21. 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

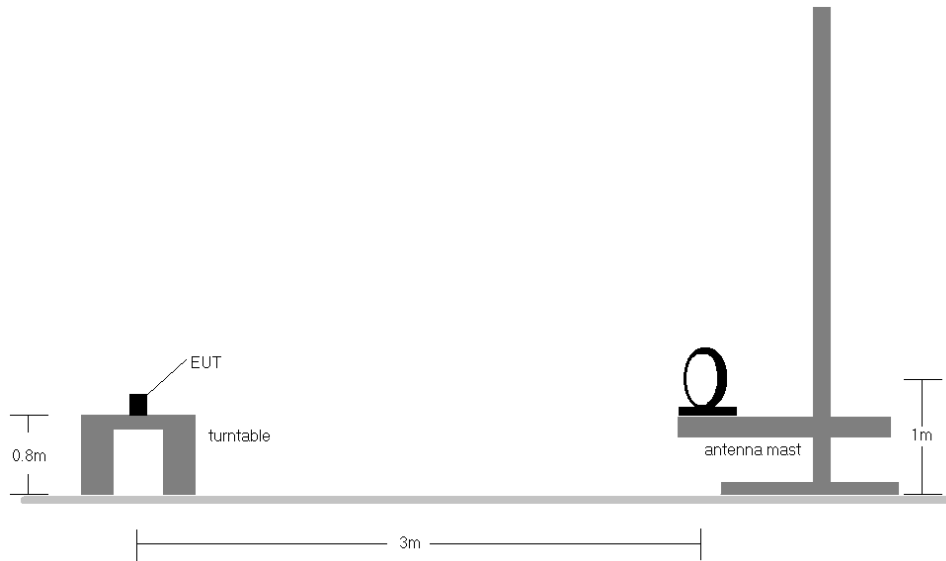
#### Peak Field Strength Measurements

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. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

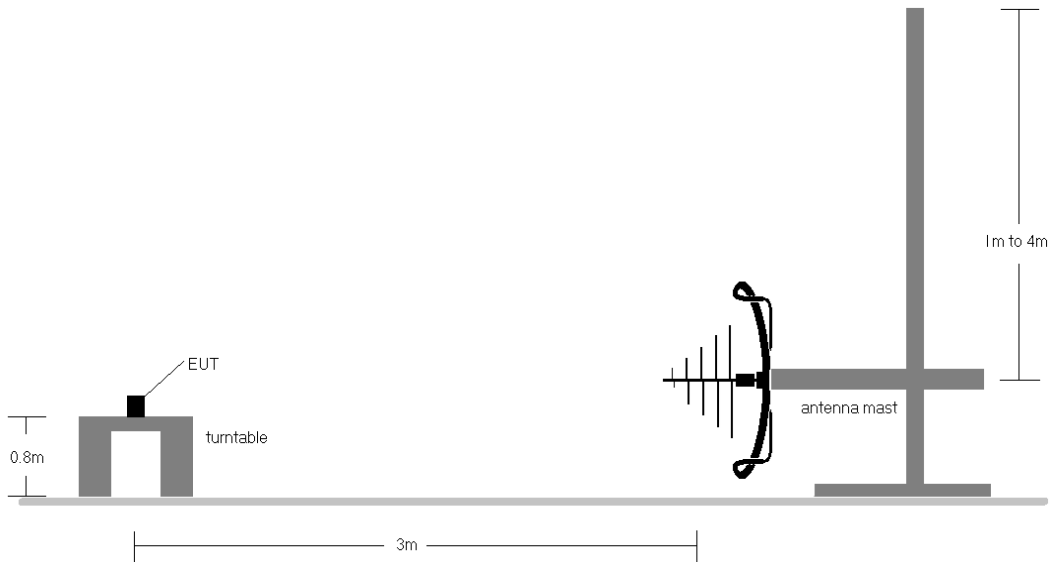
FCC ID: A3LSMS906U	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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**Test Setup**

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**

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## 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 7-21.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This devices was tested with a standard battery
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
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. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.

## Sample Calculations

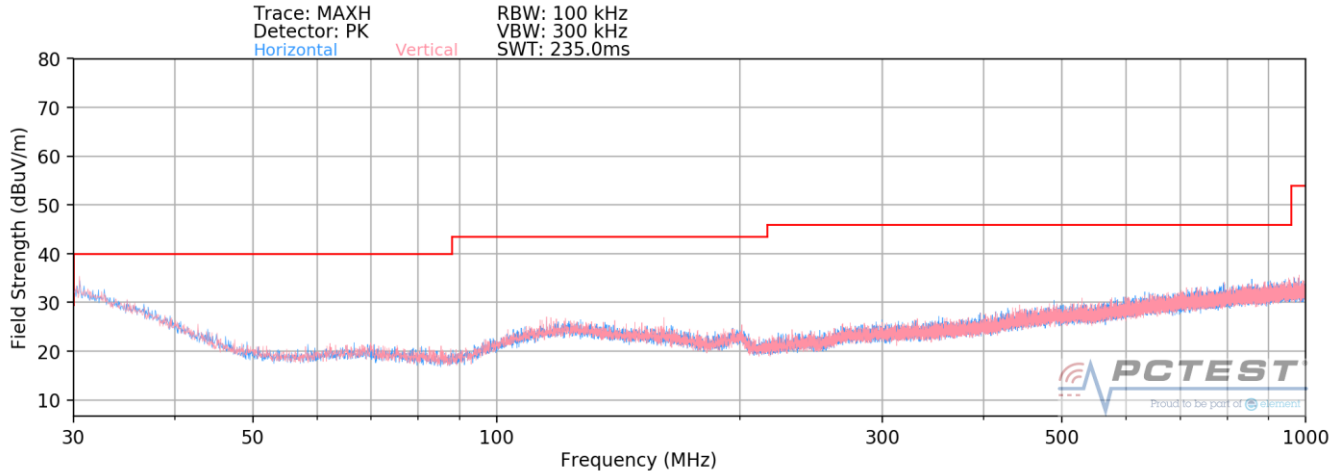
### Determining Spurious Emissions Levels

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

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**Radiated Spurious Emissions Measurements (Below 1GHz)**  
**§15.209; RSS-Gen [8.9]**



**Plot 7-143. Radiated Spurious Emissions Below 1GHz (Dual Antenna)**

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## 7.10 AC Line-Conducted Emission

### §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 $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-22. 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

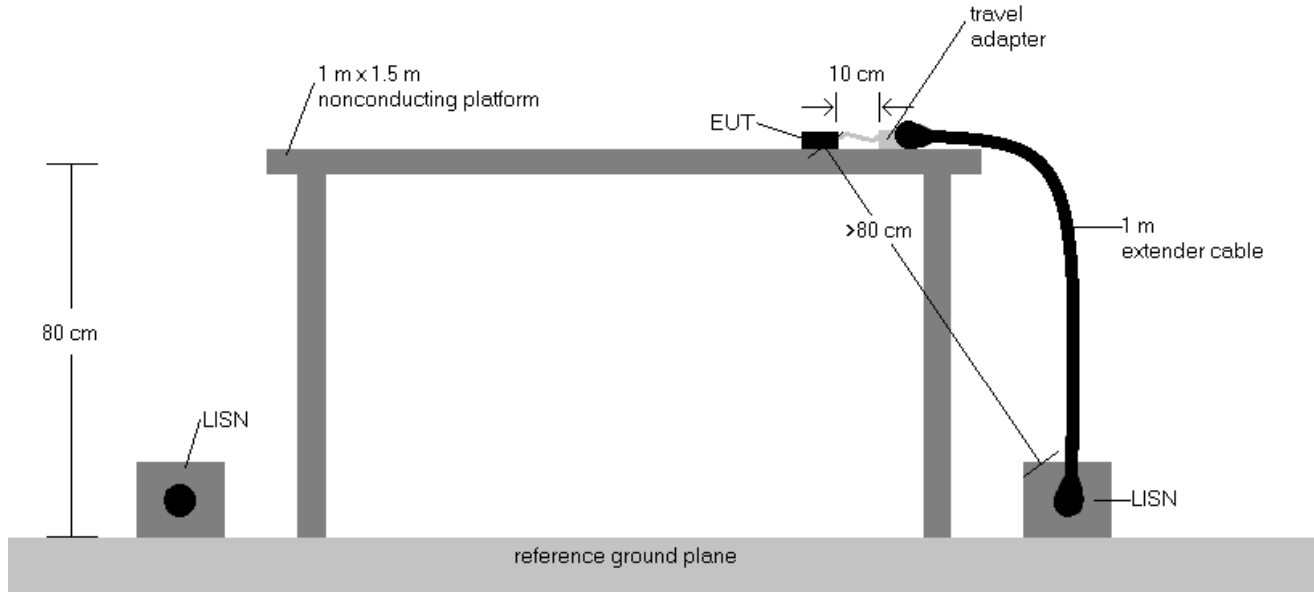
##### Average Field Strength Measurements

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

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## Test Setup

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

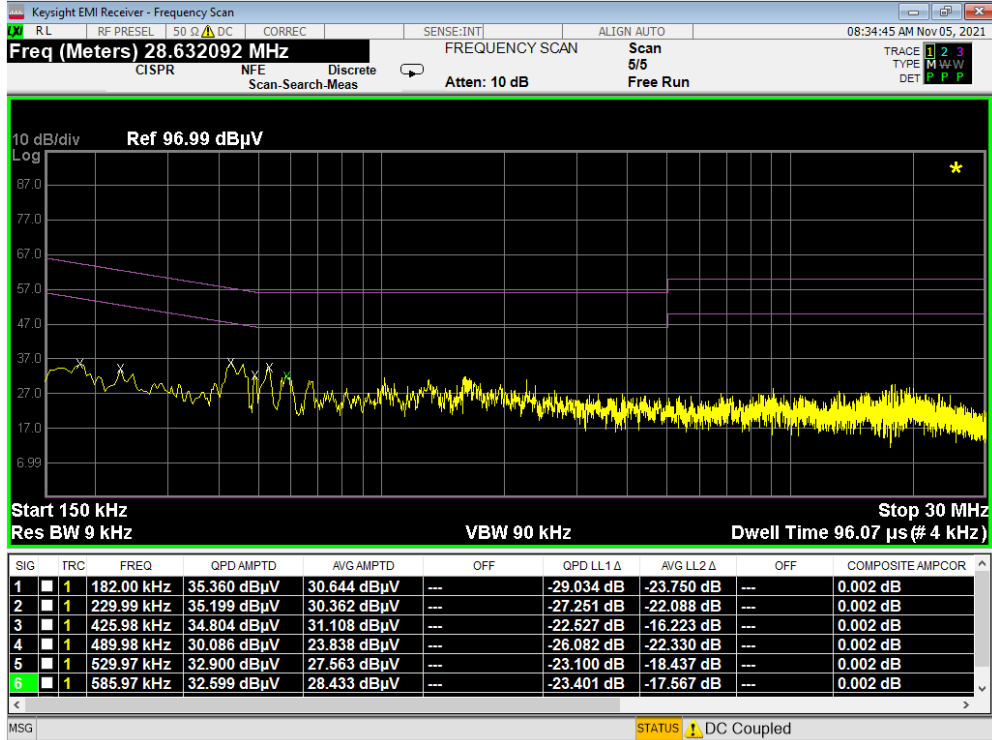


**Figure 7-9. Test Instrument & Measurement Setup**

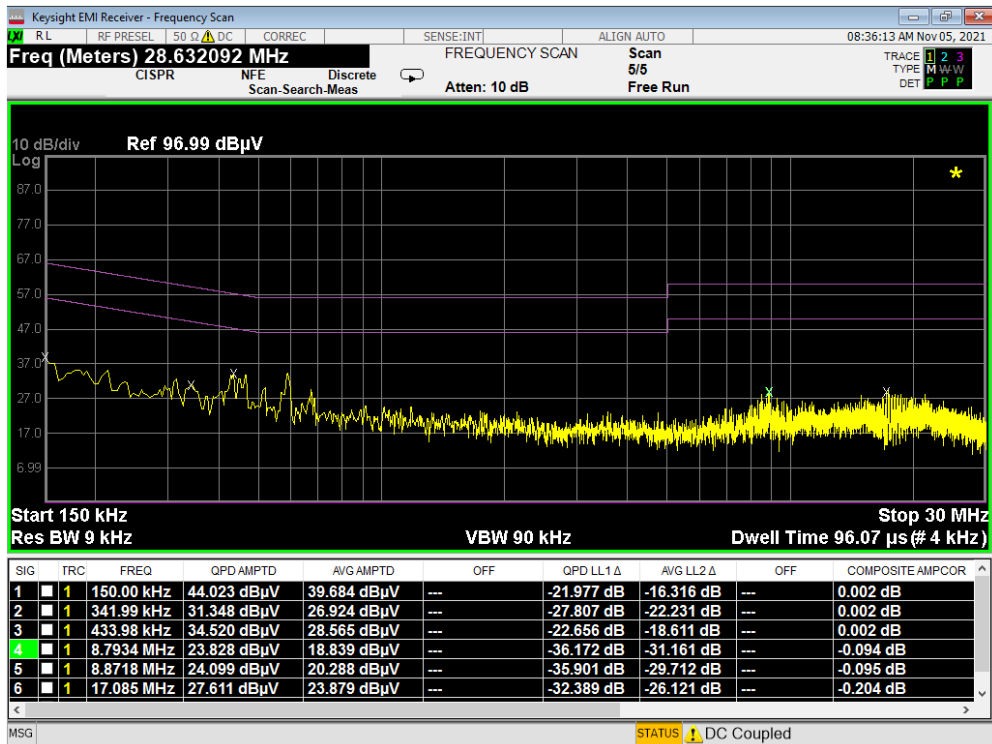
## Test Notes

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.

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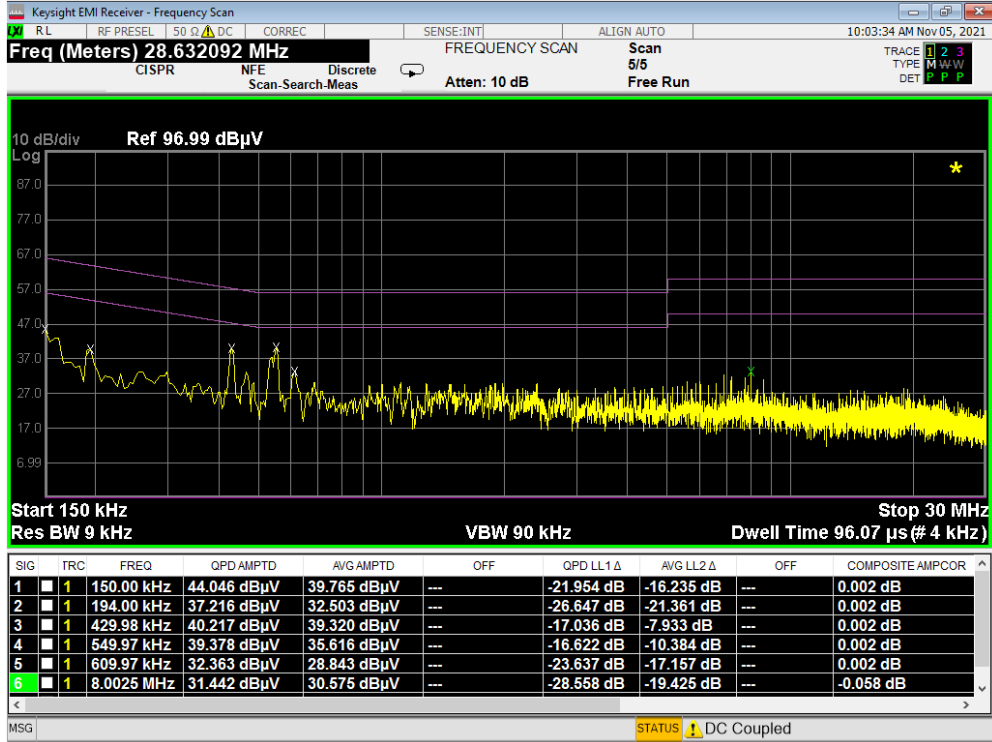


Plot 7-144. AC Line Conducted Emissions (L1) with charger

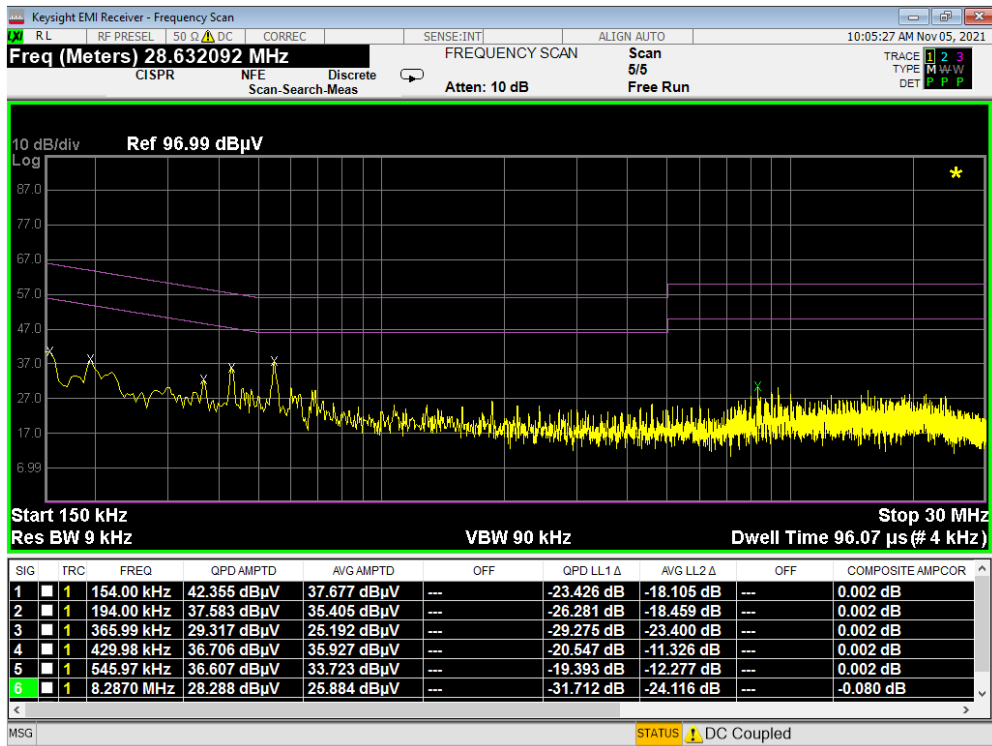


Plot 7-145. AC Line Conducted Emissions (N) with charger

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Plot 7-146. AC Line Conducted Emissions (L1) with WCP



Plot 7-147. AC Line Conducted Emissions (N) with WCP

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS906U** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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