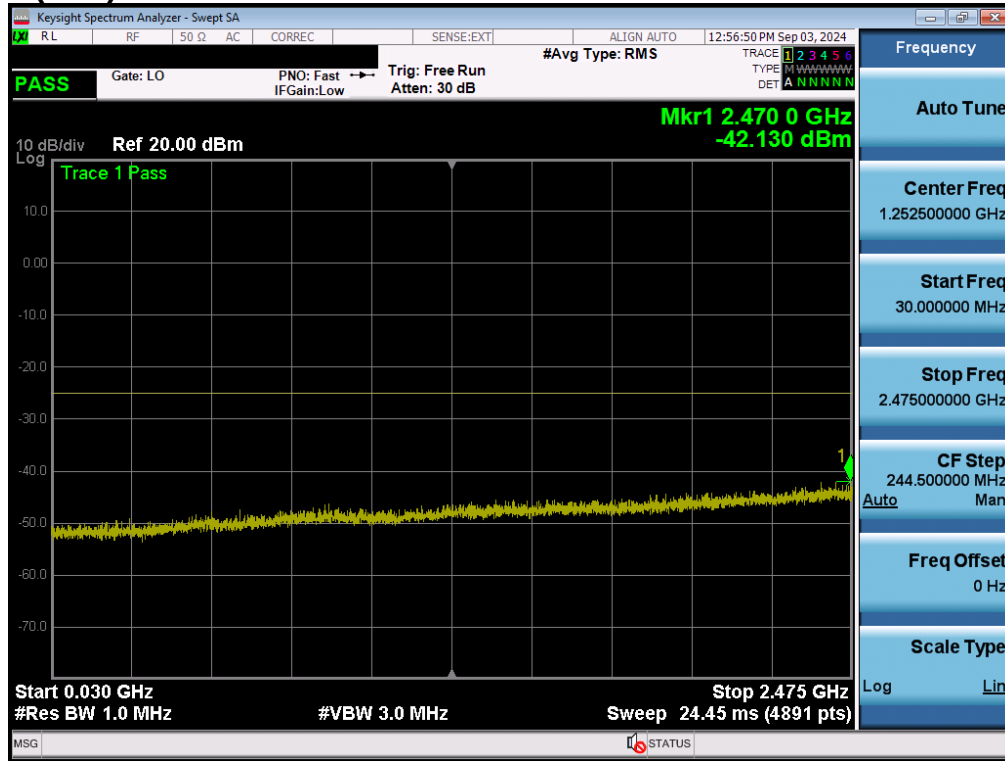
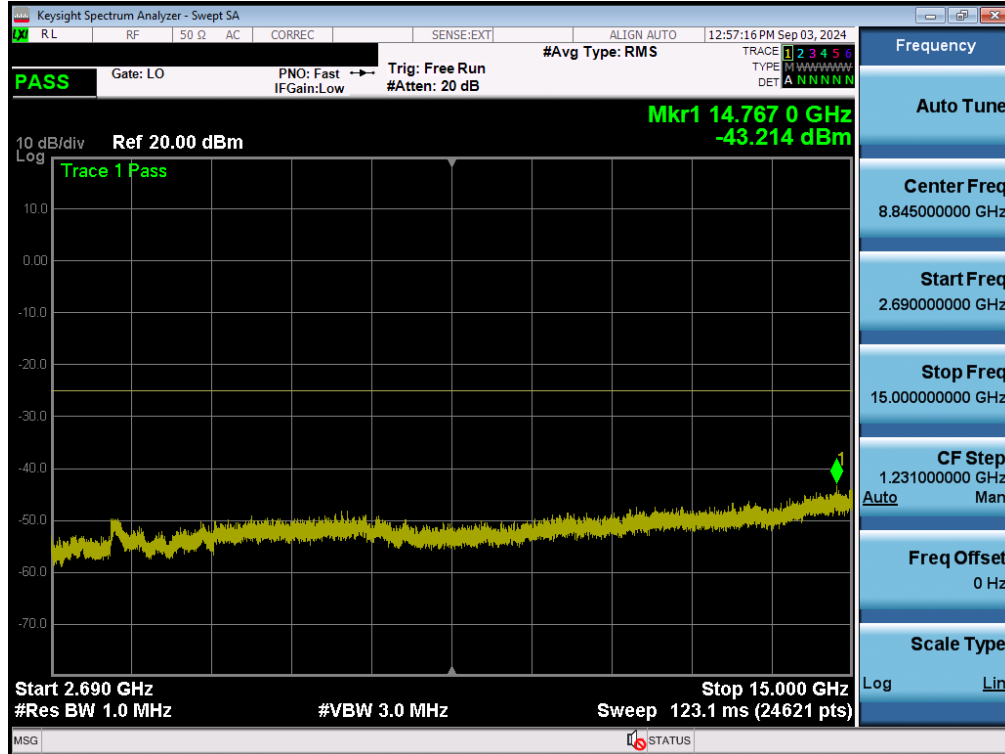


LTE Band 41(PC3)– Ant B

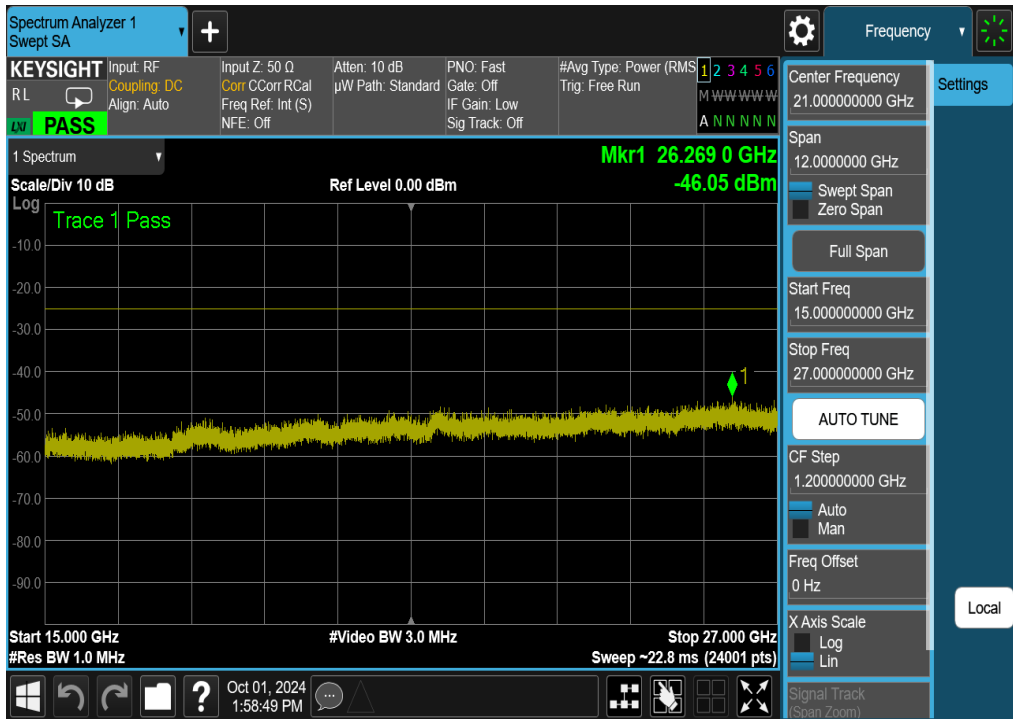


Plot 7-107. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)



Plot 7-108. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

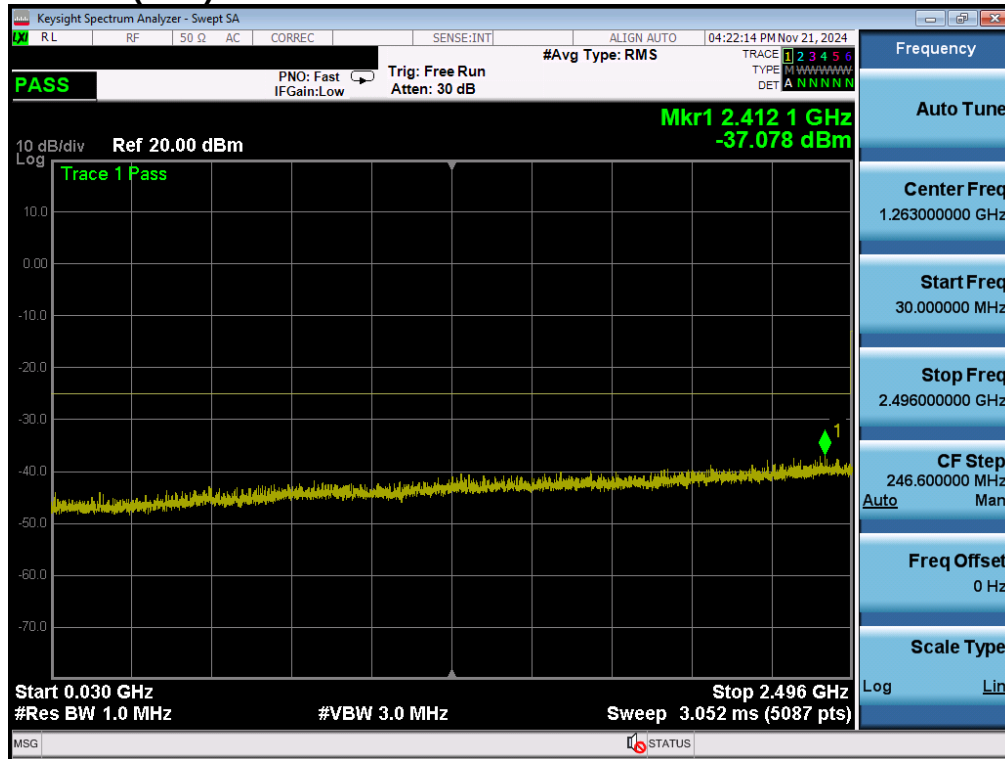
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 78 of 132



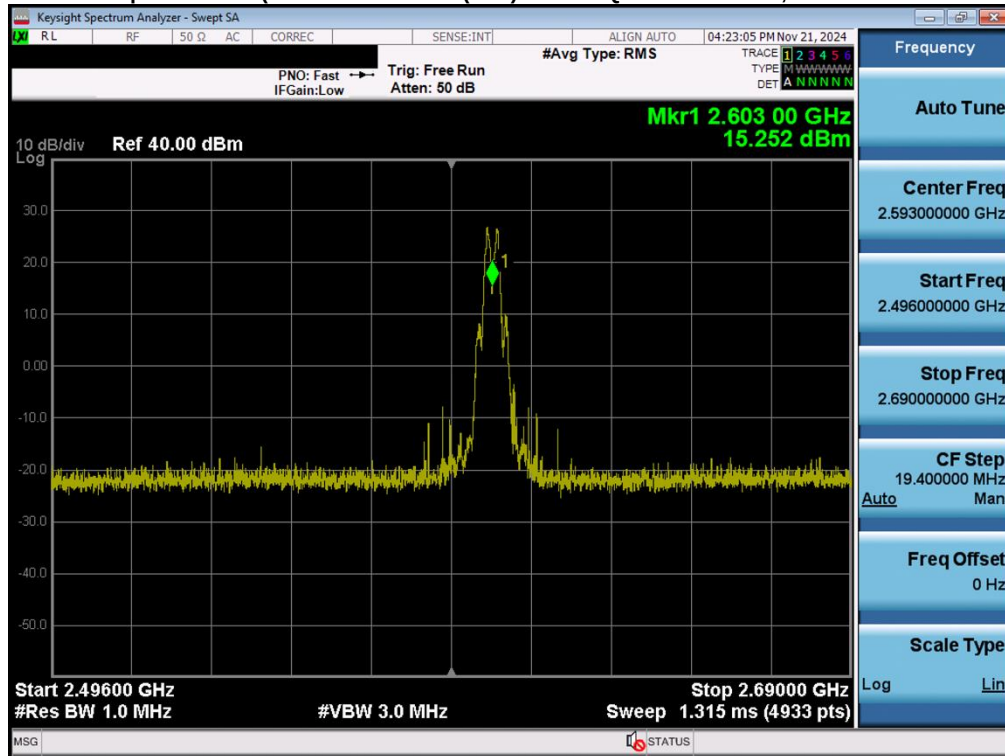
Plot 7-109. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 79 of 132

ULCA LTE Band 41(PC3)– Ant B

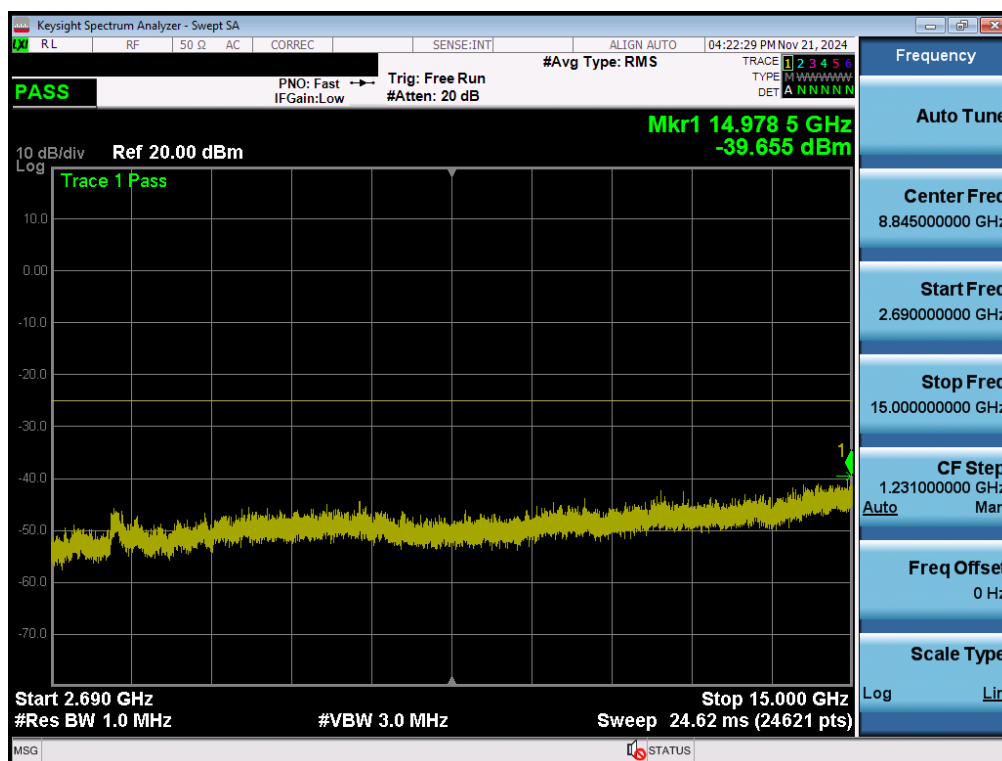


Plot 7-110. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

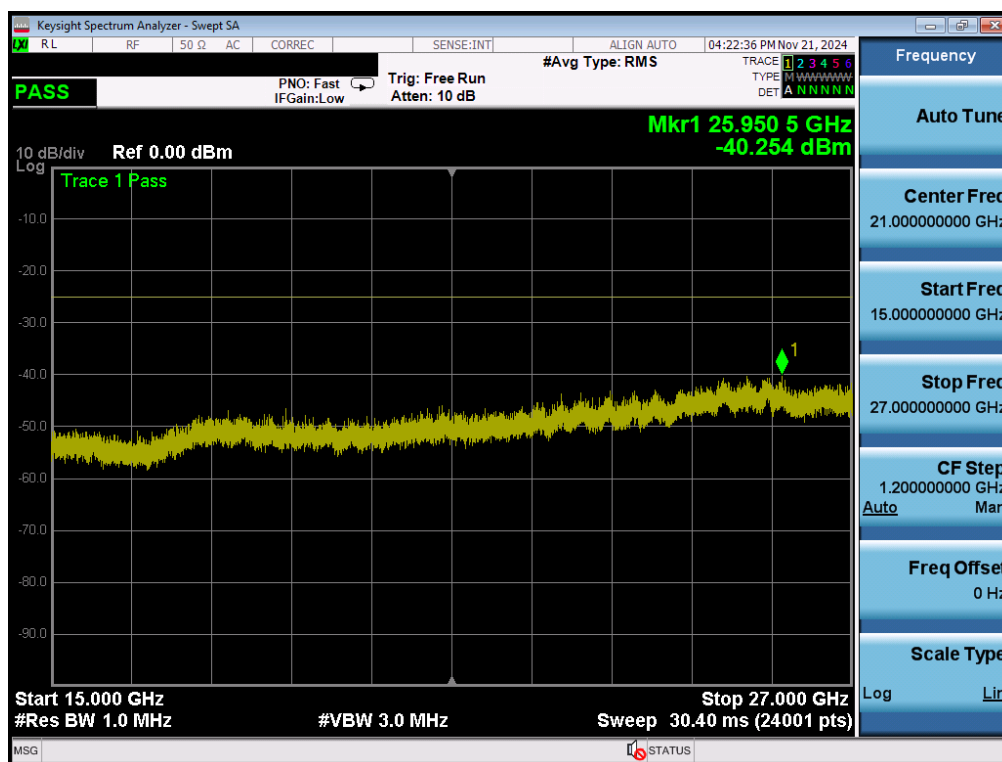


Plot 7-111. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 80 of 132



Plot 7-112. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)



Plot 7-113. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 81 of 132

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-38.17	-25	-13.17
		Low	2690.0 - 15000.0	-38.55	-25	-13.55
		Low	15000.0 - 27000.0	-46.45	-25	-21.45
		Mid	30.0 - 2470.0	-38.04	-25	-13.04
		Mid	2690.0 - 15000.0	-40.04	-25	-15.03
		Mid	15000.0 - 27000.0	-47.24	-25	-22.24
		High	30.0 - 2470.0	-38.13	-25	-13.13
		High	2690.0 - 15000.0	-39.72	-25	-14.72
		High	15000.0 - 27000.0	-46.79	-25	-21.79

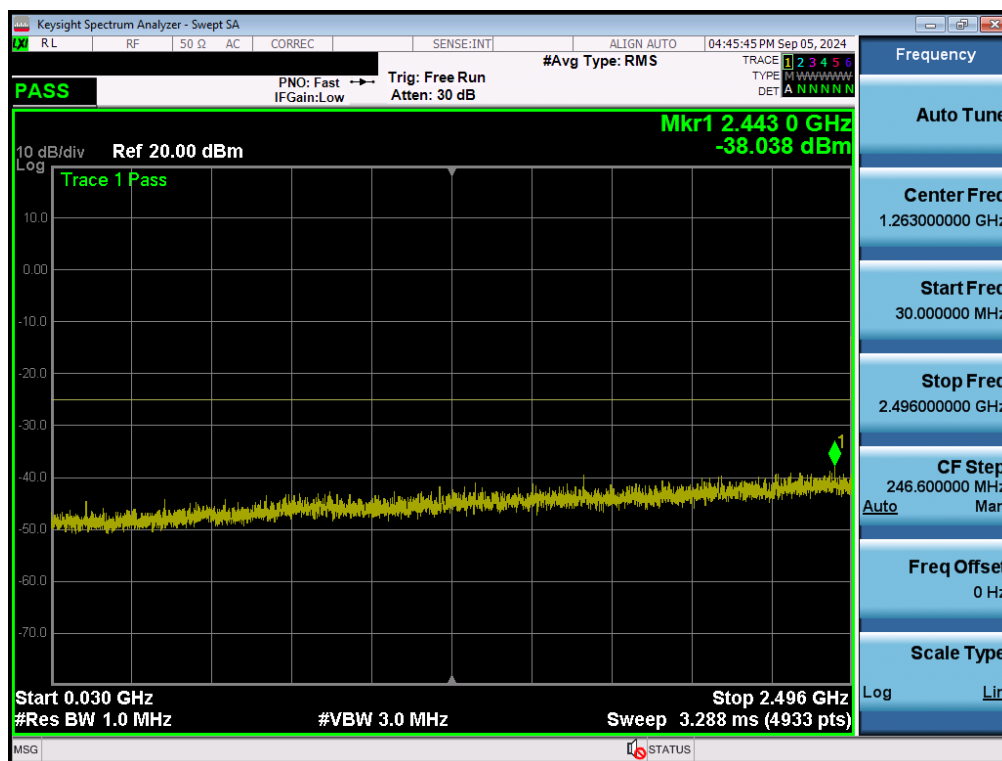
Table 7-11. Conducted Emission Test Results – NR – Ant F

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	30.0 - 2470.0	-38.42	-25	-13.42
		Low	2690.0 - 15000.0	-38.34	-25	-13.34
		Low	15000.0 - 27000.0	-47.15	-25	-22.15
		Mid	30.0 - 2470.0	-38.38	-25	-13.38
		Mid	2690.0 - 15000.0	-39.34	-25	-14.34
		Mid	15000.0 - 27000.0	-46.65	-25	-21.65
		High	30.0 - 2470.0	-37.21	-25	-12.21
		High	2690.0 - 15000.0	-40.06	-25	-15.06
		High	15000.0 - 27000.0	-46.98	-25	-21.98

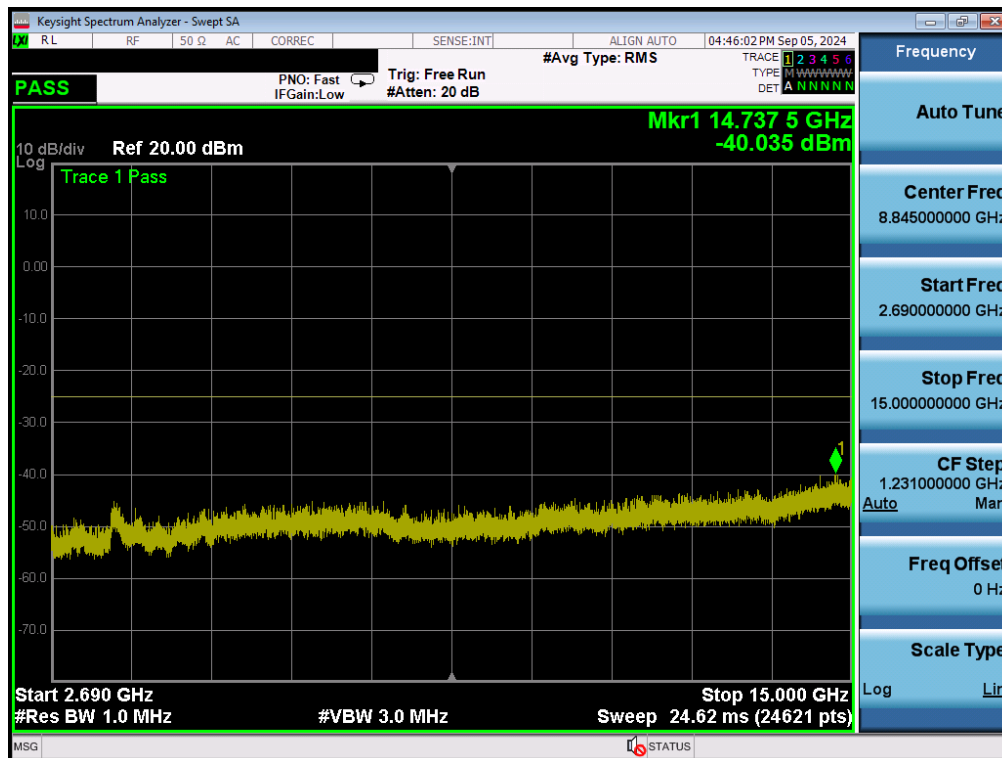
Table 7-12. Conducted Emission Test Results – NR – Ant B

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 82 of 132

NR Band n41 – Ant F – Default

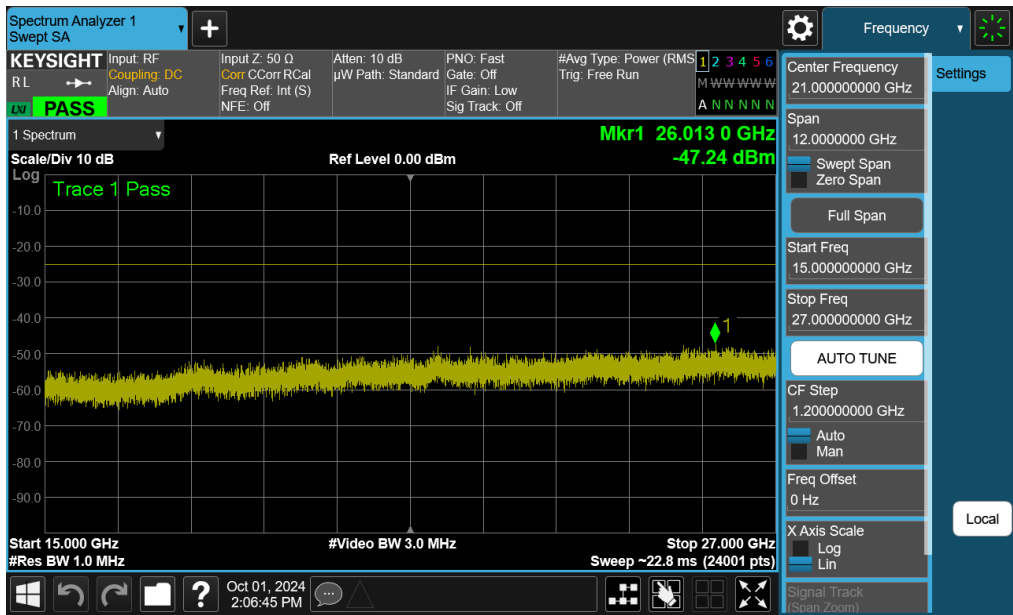


Plot 7-114. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)



Plot 7-115. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

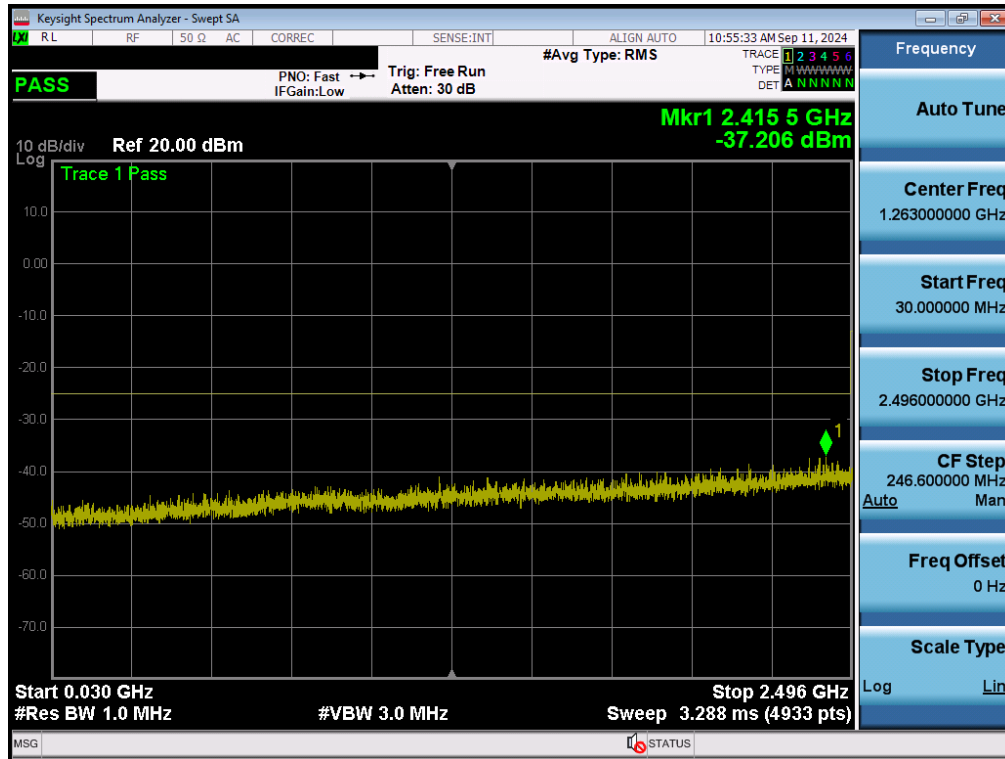
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 83 of 132



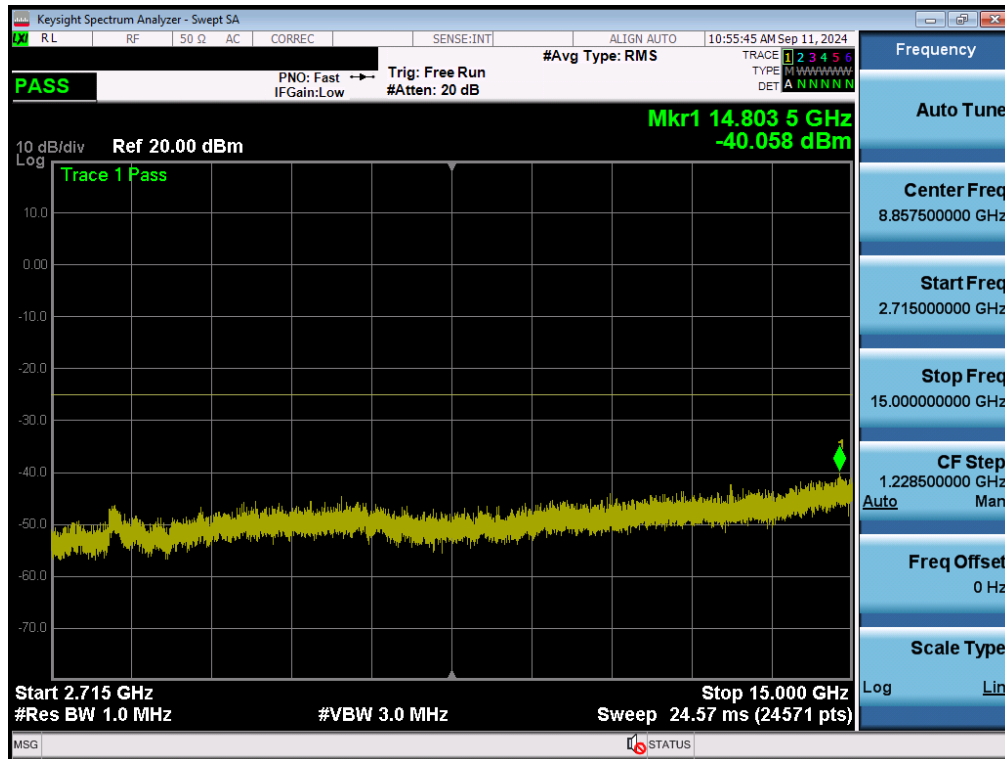
Plot 7-116. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 84 of 132

NR Band n41 – Ant B – Switching

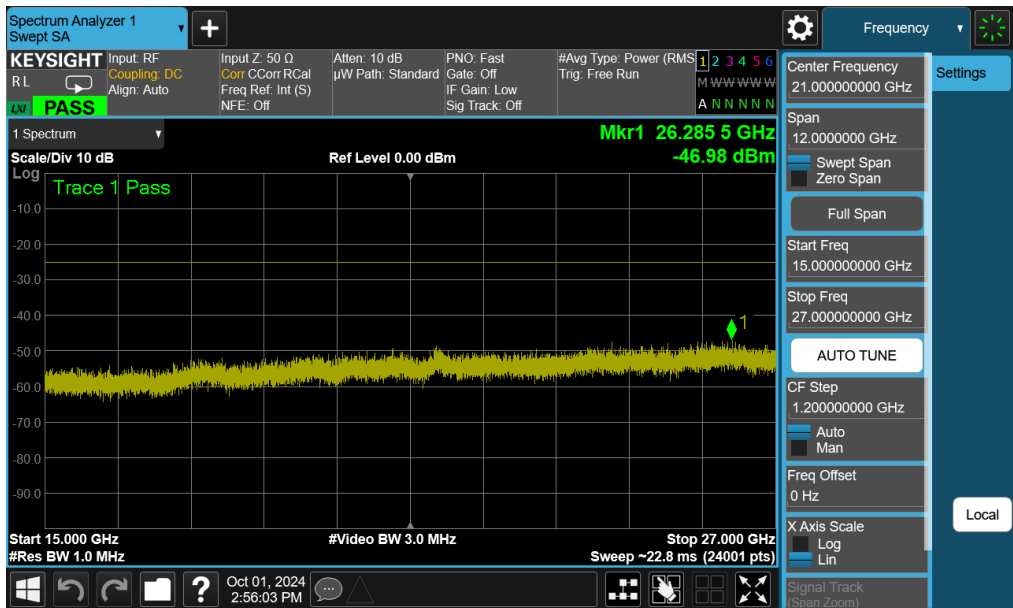


Plot 7-117. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)



Plot 7-118. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 85 of 132



Plot 7-119. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant B)

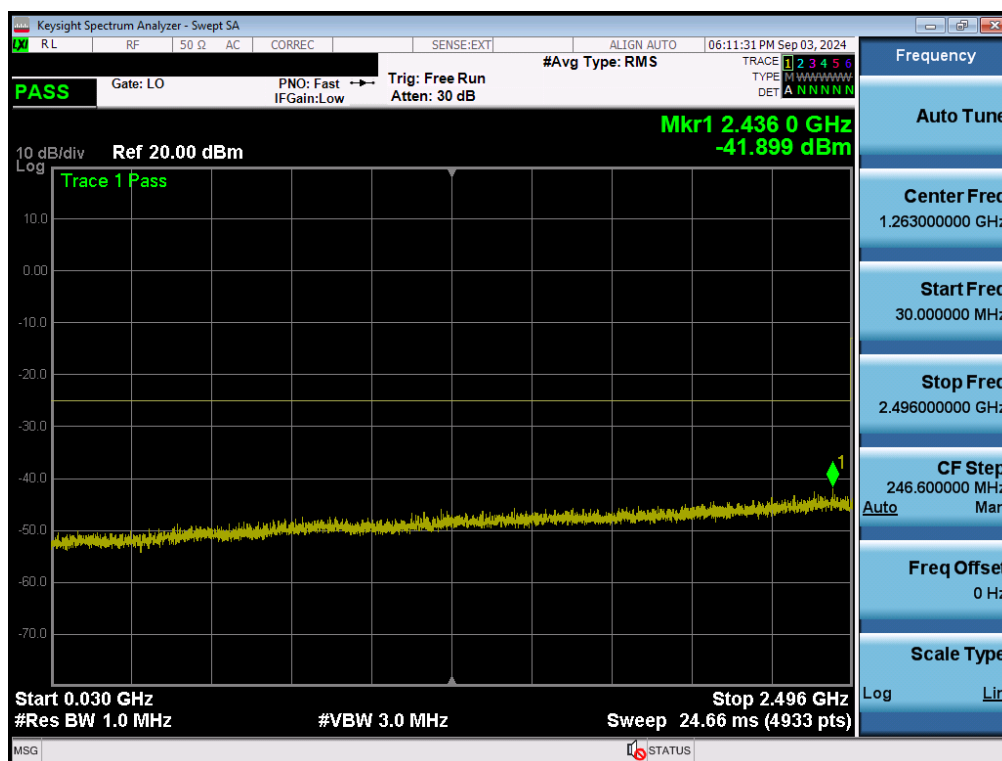
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 86 of 132

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	30.0 - 2288.0	-43.12	-25.0	-18.12
		Low	2365.0 - 15000.0	-43.84	-25.0	-18.83
		Low	15000.0 - 27000.0	-46.59	-25	-21.5848
		Mid	30.0 - 2288.0	-42.76	-25	-17.7545
		Mid	2570.0 - 15000.0	-43.72	-25	-18.7221
		Mid	15000.0 - 27000.0	-46.3	-25	-21.304
		High	30.0 - 2288.0	-41.9	-25	-16.8992
		High	2570.0 - 15000.0	-43.55	-25	-18.5464
		High	15000.0 - 27000.0	-47.55	-25	-22.5461
LTE-B41PC3	20+20MHz	Low	30.0 - 2475.0	-34.98	-25.0	-9.98
		Low	2496.0 - 2690.0	16.416	-	-
		Low	2690.0 - 15000.0	-39.88	-25.0	-14.88
		Low	15000.0 - 27000.0	-40.02	-25.0	-15.02
		Mid	30.0 - 2496.0	-37.52	-25.0	-12.52
		Mid	2496.0 - 2690.0	16.916	-	-
		Mid	2690.0 - 15000.0	-39.29	-25.0	-14.29
		Mid	15000.0 - 27000.0	-39.47	-25.0	-14.47
		High	30.0 - 2496.0	-38.38	-25.0	-13.38
		High	2496.0 - 2690.0	16.56	-	-
		High	2690.0 - 15000.0	-39.48	-25.0	-14.48
		High	15000.0 - 27000.0	-40.32	-25.0	-15.32

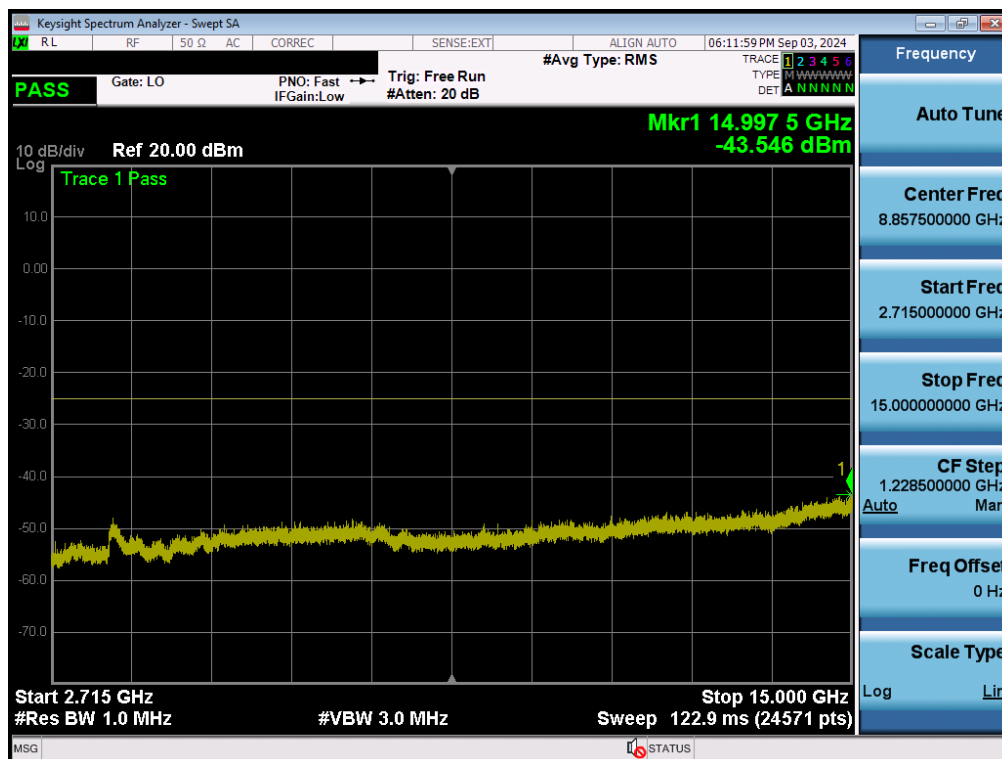
Table 7-13. Conducted Emission Test Results – LTE – Ant F

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 87 of 132

LTE Band 41(PC3)– Ant F

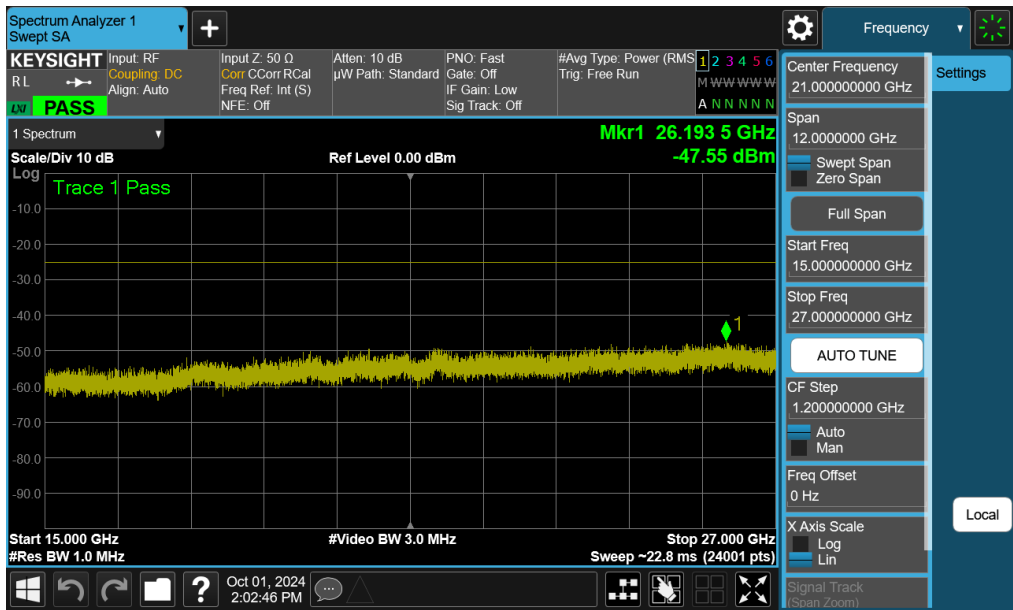


Plot 7-120. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-121. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

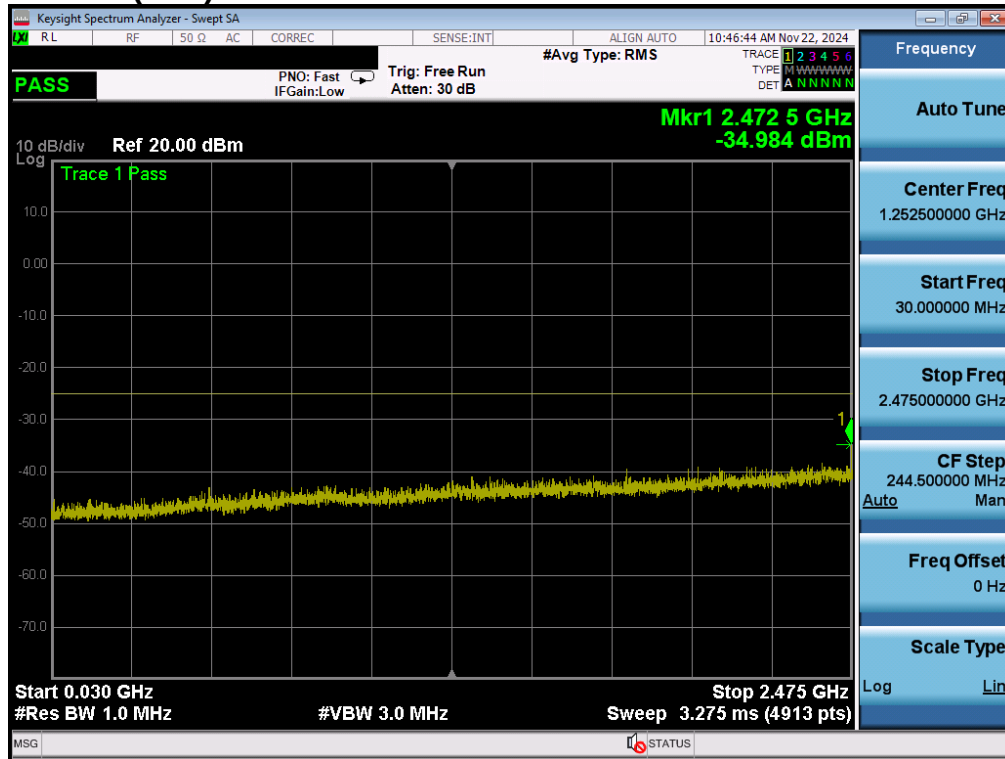
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 88 of 132



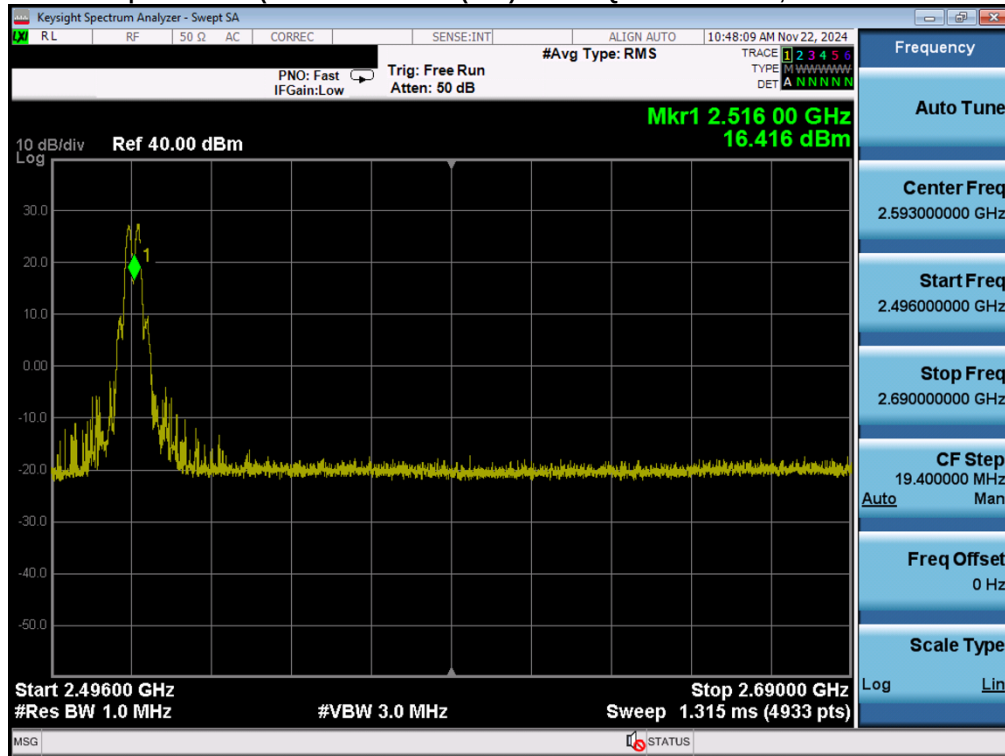
Plot 7-122. Conducted Spurious Plot (LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 89 of 132

ULCA LTE Band 41(PC3)– Ant F

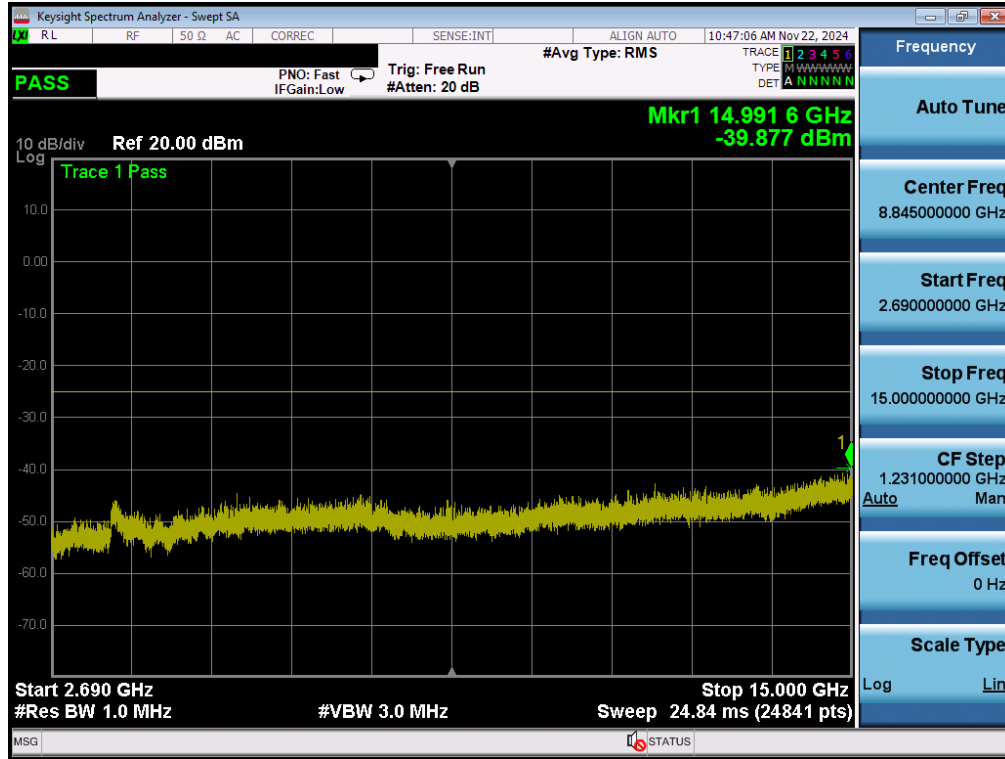


Plot 7-123. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

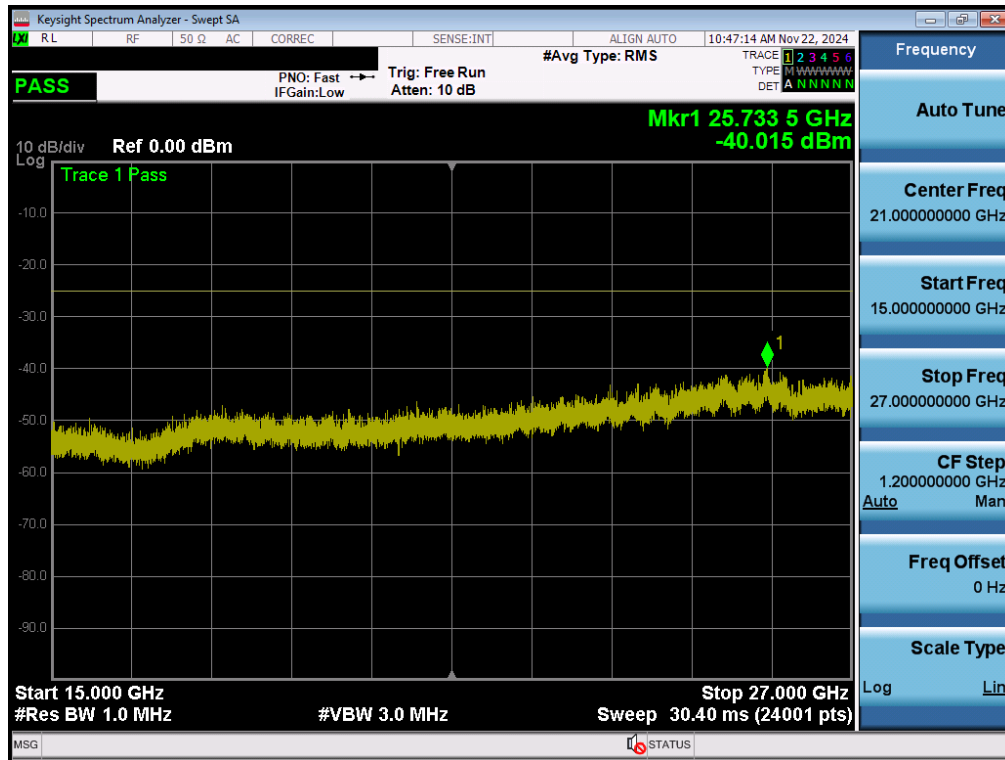


Plot 7-124. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 90 of 132



Plot 7-125. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)



Plot 7-126. Conducted Spurious Plot (ULCA LTE Band 41(PC3)- 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 91 of 132

7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level for Band 30 is $> 43 + 10 \log_{10} (P[\text{Watts}]$ at 2300-2305MHz & 2345-2360MHz, $> 55 + 10 \log_{10} (P[\text{Watts}]$ at 2320-2324MHz & 2341-2345MHz, $> 61 + 10 \log_{10} (P[\text{Watts}]$ at 2324-2328MHz & 2337-2341MHz, $> 67 + 10 \log_{10} (P[\text{Watts}]$ at 2288-2292MHz & 2328-2337MHz, and $> 70 + 10 \log_{10} (P[\text{Watts}]$ at frequencies $< 2288\text{MHz}$ & $> 2365\text{MHz}$.

The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
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.

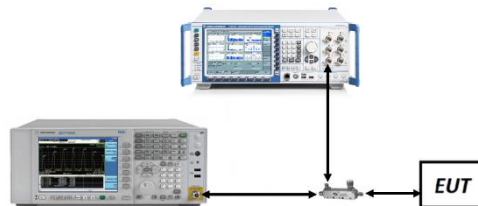


Figure 7-4. Test Instrument & Measurement Setup

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 92 of 132

Test Notes

1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding $10\log(2) = 3\text{dB}$ to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

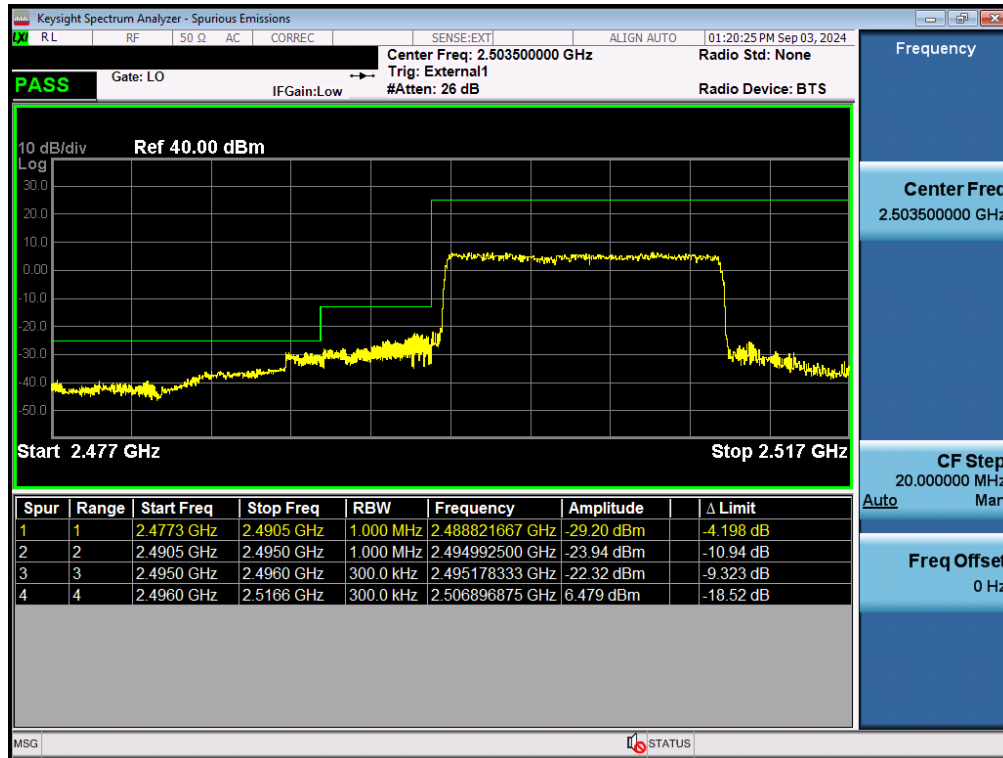
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 93 of 132

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 41 PC3	20MHz	Low	Band Edge	-30.95	-25	-5.95
		High	Band Edge	-40.46	-25	-15.46
	15MHz	Low	Band Edge	-29.20	-25	-4.20
		High	Band Edge	-37.60	-25	-12.60
	10MHz	Low	Band Edge	-32.49	-25	-7.49
		High	Band Edge	-38.14	-25	-13.14
	5MHz	Low	Band Edge	-22.89	-25	2.11
		High	Band Edge	-19.14	-25	5.86
LTE-B41 PC3 ULCA	20+20MHz	Low	Band Edge	-27.11	-25	-2.11
		High	Band Edge	-37.35	-25	-12.35

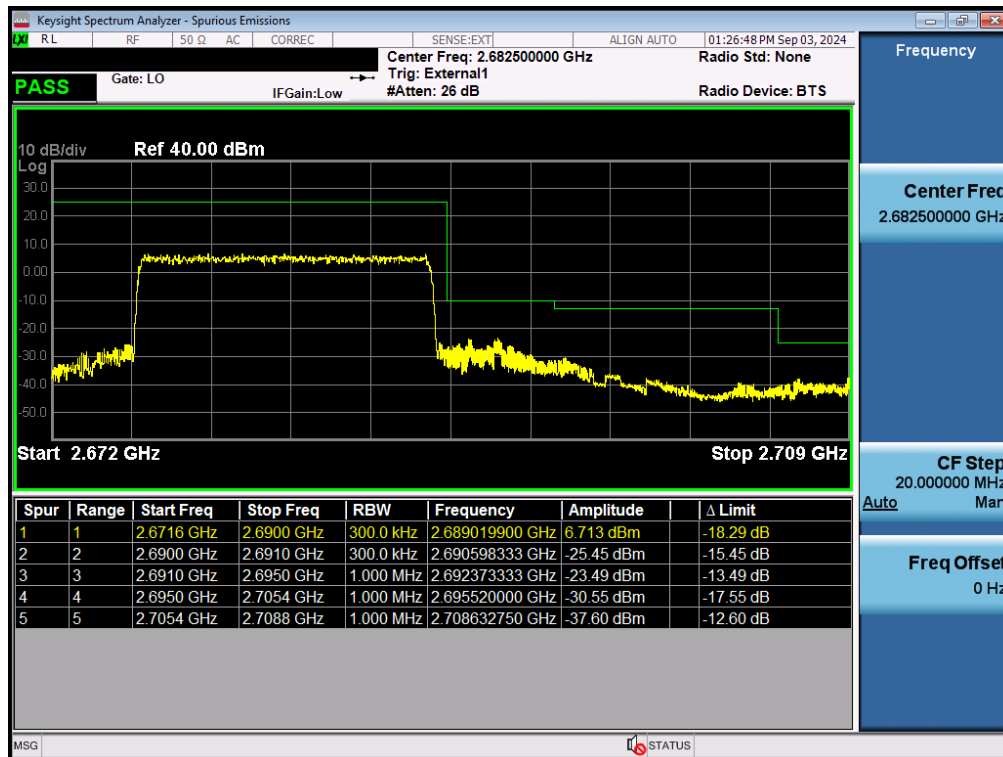
Table 7-14. Conducted Band Edge Test Results – LTE – Ant B

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 94 of 132

LTE Band 41(PC3)– Ant B



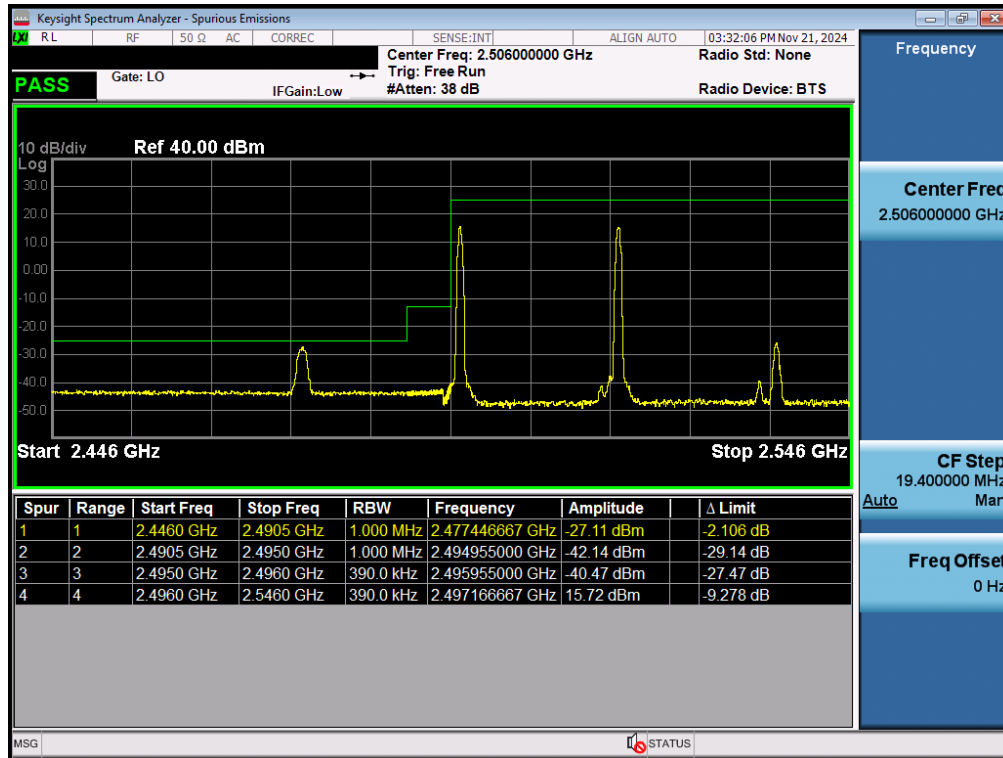
Plot 7-127. Lower ACP Plot (LTE Band 41(PC3)- 15MHz QPSK – Full RB - Ant B)



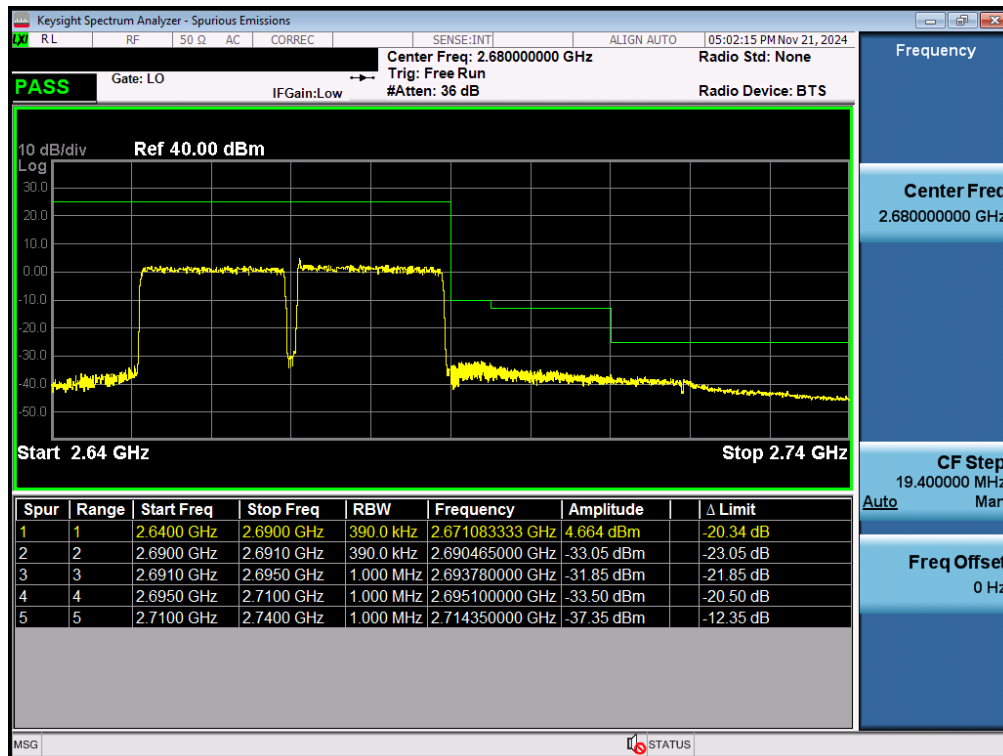
Plot 7-128. Upper ACP Plot (LTE Band 41(PC3)- 15MHz QPSK – Full RB - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 95 of 132

ULCA LTE Band 41(PC3)– Ant B



Plot 7-129. Lower ACP Plot (ULCA LTE Band 41(PC3)- 20+20MHz QPSK – 1 RB - Ant B)



Plot 7-130. Upper ACP Plot (ULCA LTE Band 41(PC3)- 20+20MHz QPSK – Full RB - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 96 of 132

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-29.50	-25	-4.50
		High	Band Edge	-26.09	-10	-16.09
	90MHz	Low	Band Edge	-37.84	-20	-12.84
		High	Band Edge	-30.28	-10	-20.28
	80MHz	Low	Band Edge	-29.18	-25	-4.18
		High	Band Edge	-26.57	-10	-16.57
	70MHz	Low	Band Edge	-35.14	-25	-10.14
		High	Band Edge	-34.62	-13	-21.62
	60MHz	Low	Band Edge	-30.35	-25	-5.35
		High	Band Edge	-24.04	-10	-14.04
	50MHz	Low	Band Edge	-34.25	-25	-9.25
		High	Band Edge	-44.75	-25	-19.75
	45MHz	Low	Band Edge	-30.56	-25	-5.56
		High	Band Edge	-25.91	-10	-15.91
	40MHz	Low	Band Edge	-32.31	-25	-7.31
		High	Band Edge	-26.88	-10	-16.88
	35MHz	Low	Band Edge	-34.26	-25	-9.26
		High	Band Edge	-42.67	-25	-17.67
	30MHz	Low	Band Edge	-34.26	-25	-9.26
		High	Band Edge	-42.67	-25	-17.67
	25MHz	Low	Band Edge	-32.13	-25	-7.13
		High	Band Edge	-40.74	-25	-15.74
	20MHz	Low	Band Edge	-32.13	-25	-7.13
		High	Band Edge	-40.74	-25	-15.74
	15MHz	Low	Band Edge	-30.04	-25	-5.04
		High	Band Edge	-41.56	-25	-16.56
	10MHz	Low	Band Edge	-28.26	-25	-3.26
		High	Band Edge	-30.49	-10	-20.49

Table 7-15. Conducted Band Edge Test Results – NR – Ant F

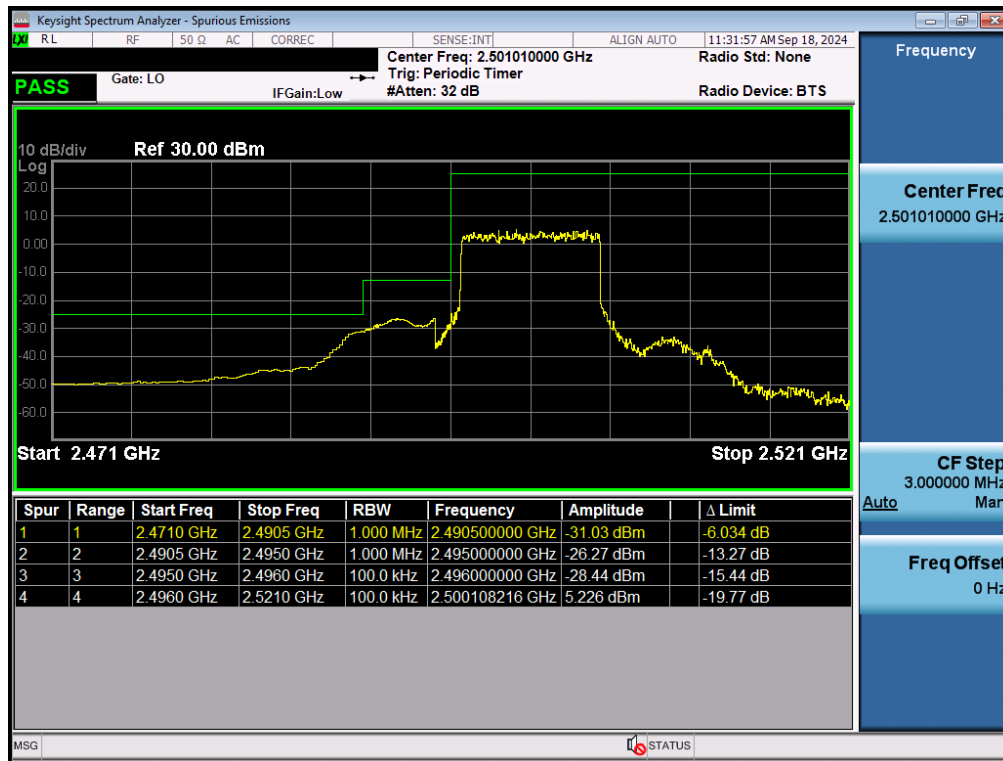
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 97 of 132

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n41PC2	100MHz	Low	Band Edge	-30.58	-25	-5.58
		High	Band Edge	-27.28	-10	-17.28
	90MHz	Low	Band Edge	-37.84	-25	-12.84
		High	Band Edge	-30.28	-10	-20.28
	80MHz	Low	Band Edge	-32.96	-25	-7.96
		High	Band Edge	-29.31	-10	-19.31
	70MHz	Low	Band Edge	-35.14	-25	-10.14
		High	Band Edge	-34.62	-13	-21.62
	60MHz	Low	Band Edge	-32.85	-25	-7.85
		High	Band Edge	-24.38	-10	-14.38
	50MHz	Low	Band Edge	-34.25	-25	-9.25
		High	Band Edge	-44.75	-25	-19.75
	45MHz	Low	Band Edge	-32.65	-25	-7.65
		High	Band Edge	-45.08	-25	-20.08
	40MHz	Low	Band Edge	-32.40	-25	-7.40
		High	Band Edge	-29.23	-10	-19.23
	35MHz	Low	Band Edge	-34.26	-25	-9.26
		High	Band Edge	-42.67	-25	-17.67
	30MHz	Low	Band Edge	-34.26	-25	-9.26
		High	Band Edge	-42.67	-25	-17.67
	25MHz	Low	Band Edge	-32.13	-25	-7.13
		High	Band Edge	-40.74	-25	-15.74
	20MHz	Low	Band Edge	-32.13	-25	-7.13
		High	Band Edge	-40.74	-25	-15.74
	15MHz	Low	Band Edge	-30.04	-25	-5.04
		High	Band Edge	-41.56	-25	-16.56
	10MHz	Low	Band Edge	-28.26	-25	-3.26
		High	Band Edge	-30.49	-10	-20.49

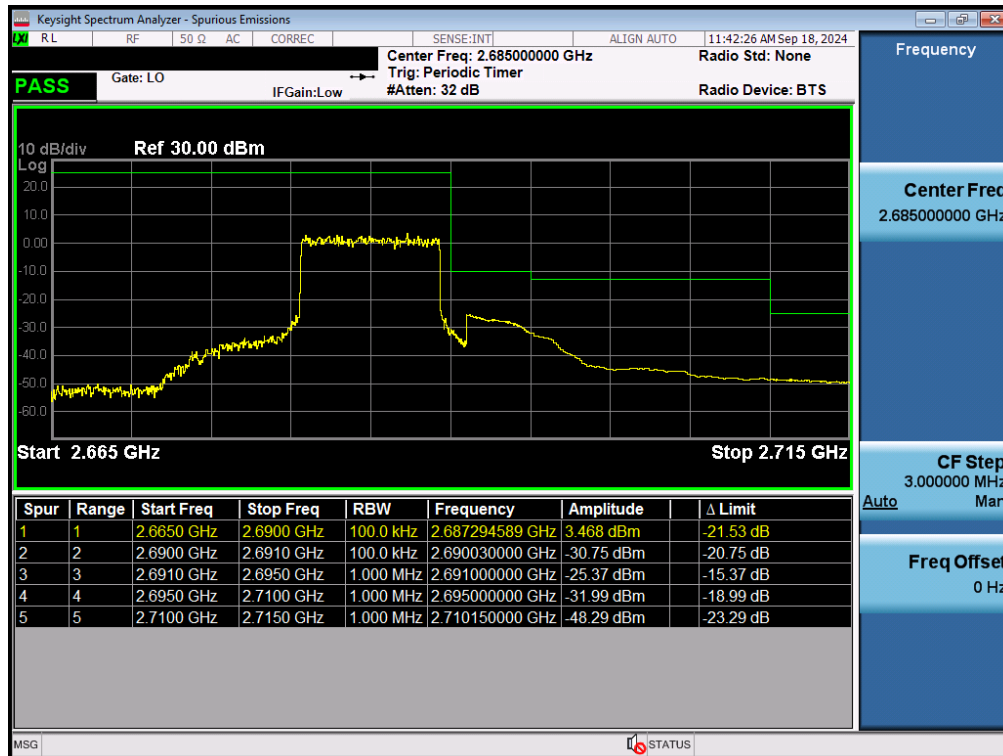
Table 7-16. Conducted Band Edge Test Results – NR – Ant B Switching

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 98 of 132

NR Band n41 – Ant F – Default



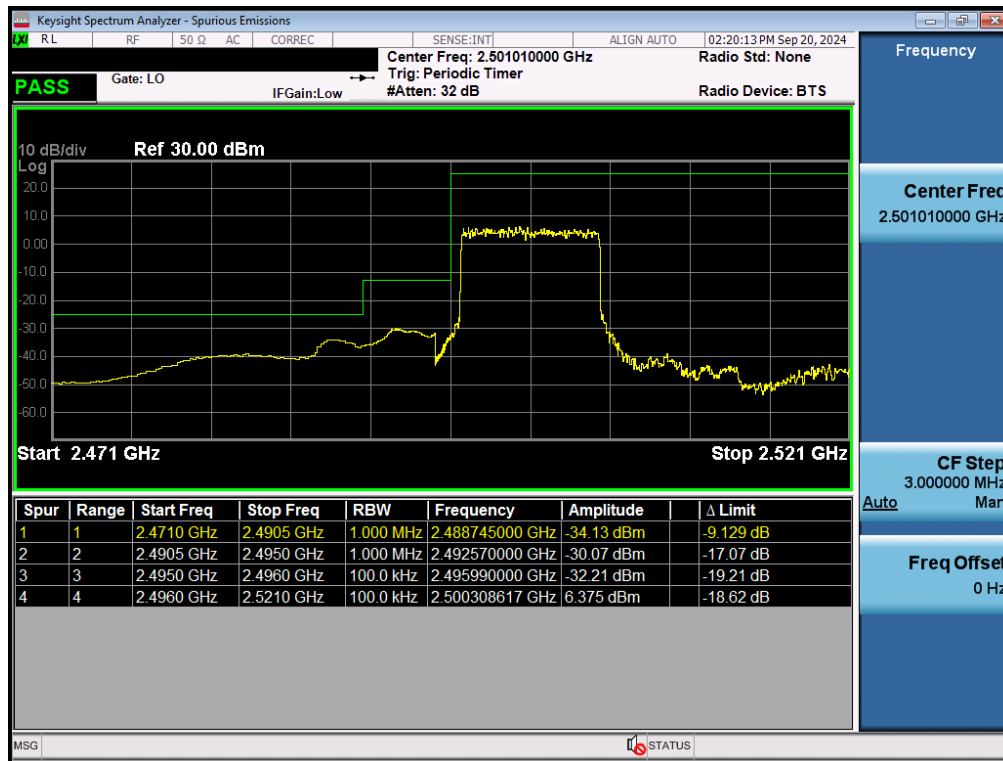
Plot 7-131. Lower Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM-QPSK – Full RB - Ant F)



Plot 7-132. Upper Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM-QPSK – Full RB - Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 99 of 132

NR Band n41 – Ant B – Switching



Plot 7-133. Lower Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant B)



Plot 7-134. Upper Band Edge Plot (NR Band n41 - 10MHz DFT-s-OFDM-BPSK – Full RB - Ant B)

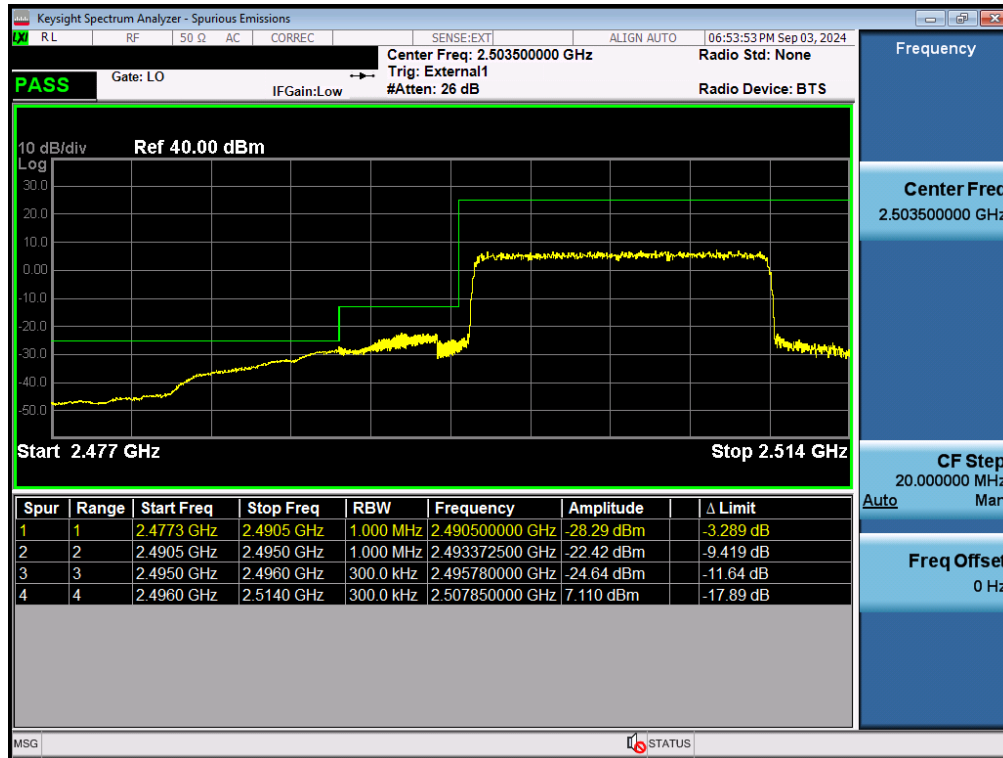
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 100 of 132

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE-B41PC3	20MHz	Low	Band Edge	-29.87	-25	-4.87
		High	Band Edge	-24.26	-10	-14.26
	15MHz	Low	Band Edge	-28.29	-25	-3.29
		High	Band Edge	-20.52	-10	-10.52
	10MHz	Low	Band Edge	-28.60	-25	-3.60
		High	Band Edge	-22.10	-10	-12.10
	5MHz	Low	Band Edge	-21.30	-13	-8.30
		High	Band Edge	-19.92	-10	-9.92
LTE-B41PC3	20+20MHz	Low	Band Edge	-29.45	-25	-4.45
		High	Band Edge	-23.64	-13	-10.64

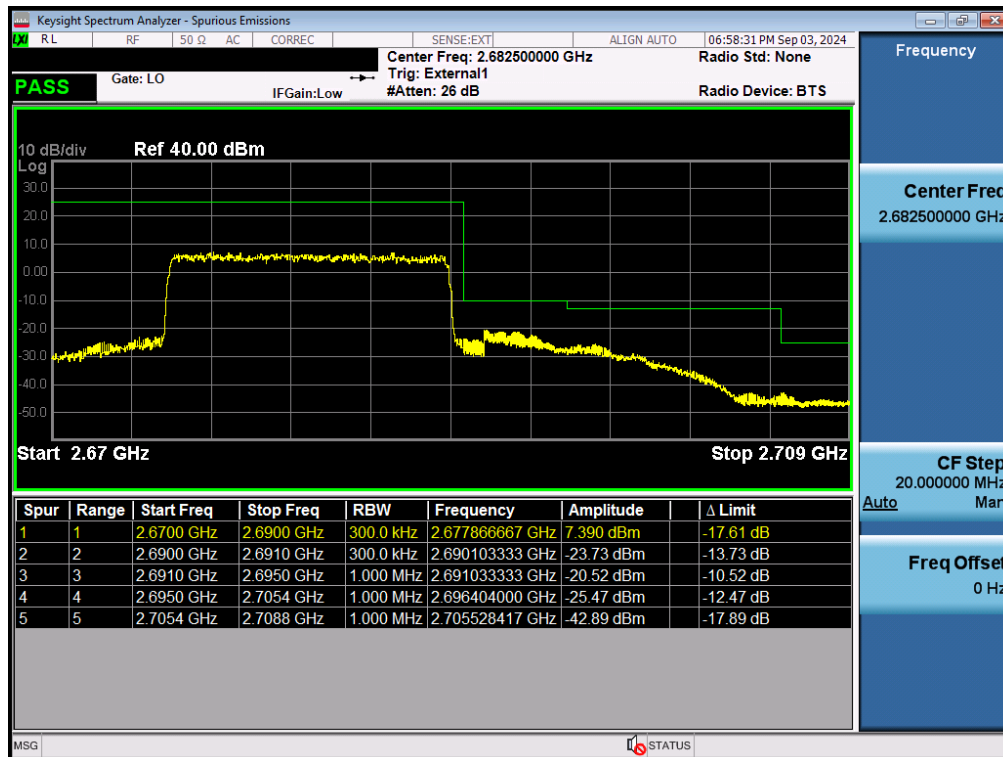
Table 7-17. Conducted Band Edge Test Results – LTE – Ant F

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 101 of 132

LTE Band 41(PC3)– Ant F



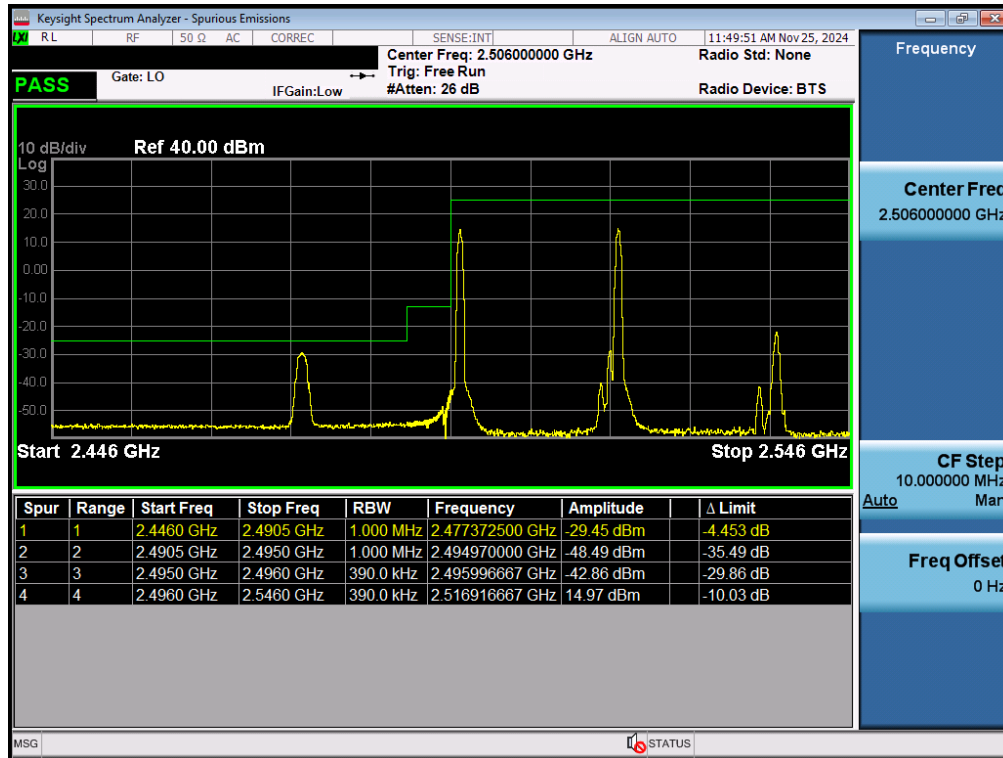
Plot 7-135. Lower ACP Plot (LTE Band 41(PC3)- 15MHz QPSK – Full RB - Ant F)



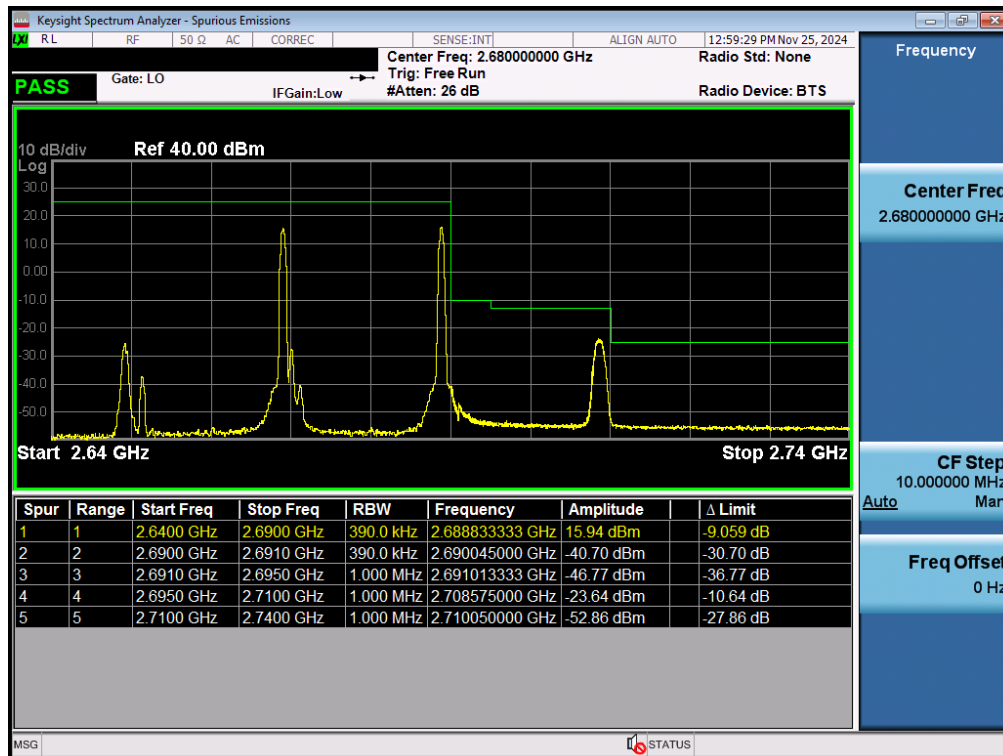
Plot 7-136. Upper ACP Plot (LTE Band 41(PC3)- 15MHz QPSK – Full RB - Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 102 of 132

ULCA LTE Band 41(PC3)– Ant F



Plot 7-137. Lower ACP Plot (ULCA LTE Band 41(PC3)- 20+20MHz QPSK – 1 RB - Ant B)



Plot 7-138. Upper ACP Plot (ULCA LTE Band 41(PC3)- 20+20MHz QPSK – 1 RB - Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 103 of 132

7.6 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 104 of 132

Test Setup

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

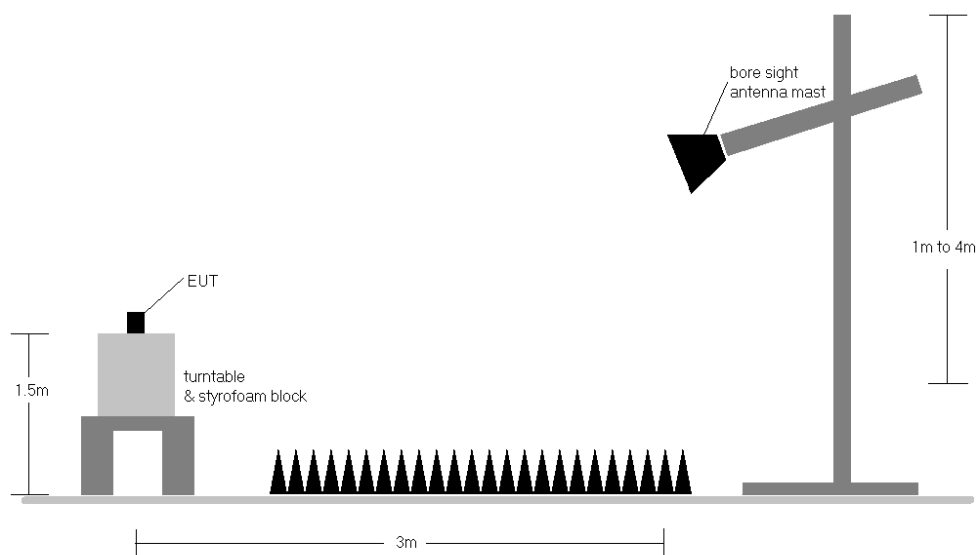


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 105 of 132

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	109	165	9.40	1 / 0	11.93	21.33	0.136	33.01	-11.68
	QPSK	2593.0	H	116	155	9.53	1 / 0	12.59	22.12	0.163	33.01	-10.90
	QPSK	2680.0	H	110	159	9.65	1 / 50	12.69	22.34	0.171	33.01	-10.67
	16-QAM	2680.0	H	110	159	9.65	1 / 50	11.90	21.55	0.143	33.01	-11.46
15 MHz	QPSK	2503.5	H	109	165	9.39	1 / 0	11.98	21.38	0.137	33.01	-11.63
	QPSK	2593.0	H	116	155	9.53	1 / 0	12.79	22.32	0.171	33.01	-10.69
	QPSK	2682.5	H	110	159	9.65	1 / 74	12.99	22.64	0.184	33.01	-10.37
	16-QAM	2593.0	H	116	155	9.53	1 / 0	11.51	21.04	0.127	33.01	-11.97
10 MHz	QPSK	2501.0	H	109	165	9.39	1 / 49	12.35	21.74	0.149	33.01	-11.27
	QPSK	2593.0	H	116	155	9.53	1 / 0	12.85	22.37	0.173	33.01	-10.64
	QPSK	2685.0	H	110	159	9.66	1 / 25	13.03	22.68	0.186	33.01	-10.33
	16-QAM	2685.0	H	110	159	9.66	1 / 25	11.51	21.16	0.131	33.01	-11.85
5 MHz	QPSK	2498.5	H	109	165	9.39	1 / 12	12.44	21.82	0.152	33.01	-11.19
	QPSK	2593.0	H	116	155	9.53	1 / 24	13.16	22.69	0.186	33.01	-10.33
	QPSK	2687.5	H	110	159	9.66	1 / 12	13.00	22.66	0.184	33.01	-10.35
	16-QAM	2593.0	H	116	155	9.53	1 / 24	12.38	21.90	0.155	33.01	-11.11
20 MHz	Opposite Pol.	2680.0	V	118	286	9.53	1 / 0	11.11	20.64	0.116	33.01	-12.38
	WCP	2680.0	H	110	158	9.53	1 / 12	12.63	22.16	0.164	33.01	-10.86

Table 7-18. EIRP Data (LTE Band 41(PC3)– Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 106 of 132

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	H	124	326	9.46	1 / 1	14.38	23.84	0.242	33.01	-9.17
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.53	24.06	0.254	33.01	-8.96
	$\pi/2$ BPSK	2640.00	H	120	309	9.59	1 / 1	12.91	22.50	0.178	33.01	-10.51
	QPSK	2546.01	H	124	326	9.46	1 / 136	13.59	23.05	0.202	33.01	-9.96
	QPSK	2592.99	H	125	311	9.53	1 / 1	13.80	23.33	0.215	33.01	-9.69
	QPSK	2640.00	H	120	309	9.59	1 / 1	12.27	21.86	0.154	33.01	-11.15
90 MHz	16-QAM	2592.99	H	125	311	9.53	1 / 1	13.09	22.62	0.183	33.01	-10.40
	$\pi/2$ BPSK	2541.00	H	124	326	9.45	1 / 243	14.87	24.32	0.271	33.01	-8.69
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 122	14.39	23.91	0.246	33.01	-9.10
	$\pi/2$ BPSK	2644.98	H	120	309	9.60	1 / 1	12.90	22.50	0.178	33.01	-10.51
	QPSK	2541.00	H	124	326	9.45	1 / 243	14.13	23.58	0.228	33.01	-9.43
	QPSK	2592.99	H	125	311	9.53	1 / 122	13.55	23.08	0.203	33.01	-9.93
80 MHz	QPSK	2644.98	H	120	309	9.60	1 / 1	11.93	21.52	0.142	33.01	-11.49
	16-QAM	2541.00	H	124	326	9.45	1 / 243	13.17	22.61	0.183	33.01	-10.40
	$\pi/2$ BPSK	2536.02	H	124	326	9.44	1 / 215	14.91	24.35	0.272	33.01	-8.66
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.75	24.28	0.268	33.01	-8.73
	$\pi/2$ BPSK	2649.99	H	120	309	9.61	216 / 0	12.86	22.47	0.177	33.01	-10.54
	QPSK	2536.02	H	124	326	9.44	1 / 215	14.40	23.84	0.242	33.01	-9.17
70 MHz	QPSK	2592.99	H	125	311	9.53	1 / 1	13.94	23.47	0.222	33.01	-9.54
	QPSK	2649.99	H	120	309	9.61	1 / 108	11.67	21.28	0.134	33.01	-11.73
	16-QAM	2536.02	H	124	326	9.44	1 / 215	13.30	22.74	0.188	33.01	-10.27
	$\pi/2$ BPSK	2531.01	H	124	326	9.43	1 / 187	14.54	23.98	0.250	33.01	-9.03
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 94	14.45	23.98	0.250	33.01	-9.03
	$\pi/2$ BPSK	2655.00	H	120	309	9.61	1 / 94	12.92	22.54	0.179	33.01	-10.47
60 MHz	QPSK	2531.01	H	124	326	9.43	1 / 187	14.18	23.61	0.230	33.01	-9.40
	QPSK	2592.99	H	125	311	9.53	1 / 94	13.61	23.13	0.206	33.01	-9.88
	QPSK	2655.00	H	120	309	9.61	1 / 94	11.43	21.04	0.127	33.01	-11.97
	16-QAM	2531.01	H	124	326	9.43	1 / 187	13.24	22.68	0.185	33.01	-10.33
	$\pi/2$ BPSK	2526.00	H	124	326	9.43	1 / 160	14.59	24.02	0.252	33.01	-8.99
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 81	14.53	24.06	0.255	33.01	-8.95
50 MHz	$\pi/2$ BPSK	2659.98	H	120	309	9.62	1 / 81	12.52	22.14	0.164	33.01	-10.87
	QPSK	2526.00	H	124	326	9.43	1 / 160	13.87	23.30	0.214	33.01	-9.71
	QPSK	2592.99	H	125	311	9.53	1 / 81	13.49	23.01	0.200	33.01	-10.00
	QPSK	2659.98	H	120	309	9.62	1 / 81	11.74	21.37	0.137	33.01	-11.65
	16-QAM	2526.00	H	124	326	9.43	1 / 160	12.76	22.18	0.165	33.01	-10.83
	$\pi/2$ BPSK	2521.02	H	124	326	9.42	1 / 131	14.32	23.74	0.237	33.01	-9.27
45 MHz	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.66	24.18	0.262	33.01	-8.83
	$\pi/2$ BPSK	2664.99	H	120	309	9.63	1 / 66	12.50	22.13	0.163	33.01	-10.88
	QPSK	2521.02	H	124	326	9.42	1 / 131	13.57	22.99	0.199	33.01	-10.02
	QPSK	2592.99	H	125	311	9.53	1 / 1	14.12	23.65	0.232	33.01	-9.36
	QPSK	2664.99	H	120	309	9.63	1 / 66	11.78	21.41	0.138	33.01	-11.60
	16-QAM	2592.99	H	125	311	9.53	1 / 1	13.26	22.79	0.190	33.01	-10.22
40 MHz	$\pi/2$ BPSK	2518.50	H	124	326	9.41	1 / 104	14.07	23.48	0.223	33.01	-9.53
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 53	14.70	24.22	0.265	33.01	-8.79
	$\pi/2$ BPSK	2667.50	H	120	309	9.63	1 / 53	13.07	22.71	0.187	33.01	-10.30
	QPSK	2518.50	H	124	326	9.41	1 / 104	13.13	22.55	0.180	33.01	-10.46
	QPSK	2592.99	H	125	311	9.53	1 / 53	13.63	23.16	0.207	33.01	-9.85
	QPSK	2667.50	H	120	309	9.63	1 / 53	12.15	21.79	0.151	33.01	-11.22
35 MHz	16-QAM	2592.99	H	125	311	9.53	1 / 53	12.69	22.21	0.167	33.01	-10.80
	$\pi/2$ BPSK	2516.01	H	124	326	9.41	1 / 104	14.04	23.45	0.221	33.01	-9.56
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 53	14.66	24.19	0.262	33.01	-8.82
	$\pi/2$ BPSK	2670.00	H	120	309	9.63	1 / 53	12.71	22.35	0.172	33.01	-10.66
	QPSK	2516.01	H	124	326	9.41	1 / 104	12.88	22.29	0.170	33.01	-10.72
	QPSK	2592.99	H	125	311	9.53	1 / 53	13.67	23.20	0.209	33.01	-9.81
30 MHz	QPSK	2670.00	H	120	309	9.63	1 / 53	11.91	21.54	0.143	33.01	-11.47
	16-QAM	2592.99	H	125	311	9.53	1 / 53	12.74	22.27	0.169	33.01	-10.74
	$\pi/2$ BPSK	2513.52	H	124	326	9.40	1 / 39	14.44	23.85	0.243	33.01	-9.16
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.52	24.05	0.254	33.01	-8.96
	$\pi/2$ BPSK	2672.49	H	120	309	9.64	1 / 1	12.79	22.44	0.175	33.01	-10.57
	QPSK	2513.52	H	124	326	9.40	1 / 39	13.49	22.90	0.195	33.01	-10.11
25 MHz	QPSK	2592.99	H	125	311	9.53	1 / 39	13.91	23.44	0.221	33.01	-9.57
	QPSK	2672.49	H	120	309	9.64	1 / 1	11.77	21.41	0.138	33.01	-11.60
	16-QAM	2592.99	H	125	311	9.53	1 / 39	12.75	22.28	0.169	33.01	-10.73

Table 7-19. EIRP Data (NR Band n41 – Ant F - Default)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 107 of 132

30 MHz	$\pi/2$ BPSK	2511.00	H	124	326	9.40	1 / 39	14.21	23.61	0.230	33.01	-9.40
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.83	24.35	0.273	33.01	-8.66
	$\pi/2$ BPSK	2674.98	H	120	309	9.64	1 / 1	13.27	22.91	0.196	33.01	-10.10
	QPSK	2511.00	H	124	326	9.40	1 / 39	12.70	22.10	0.162	33.01	-10.91
	QPSK	2592.99	H	125	311	9.53	1 / 1	14.24	23.76	0.238	33.01	-9.25
	QPSK	2674.98	H	120	309	9.64	1 / 1	12.15	21.79	0.151	33.01	-11.22
25 MHz	16-QAM	2592.99	H	125	311	9.53	1 / 1	13.40	22.93	0.196	33.01	-10.08
	$\pi/2$ BPSK	2508.51	H	124	326	9.40	1 / 25	14.41	23.80	0.240	33.01	-9.21
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.85	24.37	0.274	33.01	-8.64
	$\pi/2$ BPSK	2677.50	H	120	309	9.65	1 / 1	13.08	22.73	0.187	33.01	-10.29
	QPSK	2508.51	H	124	326	9.40	1 / 25	13.25	22.65	0.184	33.01	-10.36
	QPSK	2592.99	H	125	311	9.53	1 / 1	14.26	23.78	0.239	33.01	-9.23
20 MHz	QPSK	2677.50	H	120	309	9.65	1 / 1	11.98	21.63	0.146	33.01	-11.38
	16-QAM	2592.99	H	125	311	9.53	1 / 1	13.43	22.96	0.198	33.01	-10.05
	$\pi/2$ BPSK	2506.02	H	124	326	9.40	1 / 25	14.06	23.46	0.222	33.01	-9.55
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.85	24.37	0.274	33.01	-8.64
	$\pi/2$ BPSK	2679.99	H	120	309	9.65	1 / 1	12.51	22.16	0.165	33.01	-10.85
	QPSK	2506.02	H	124	326	9.40	1 / 25	13.07	22.46	0.176	33.01	-10.55
15 MHz	QPSK	2592.99	H	125	311	9.53	1 / 1	14.42	23.94	0.248	33.01	-9.07
	QPSK	2679.99	H	120	309	9.65	1 / 1	11.69	21.34	0.136	33.01	-11.67
	16-QAM	2592.99	H	125	311	9.53	1 / 1	13.28	22.80	0.191	33.01	-10.21
	$\pi/2$ BPSK	2503.50	H	124	326	9.40	1 / 49	14.31	23.71	0.235	33.01	-9.30
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.78	24.30	0.269	33.01	-8.71
	$\pi/2$ BPSK	2682.50	H	120	309	9.65	1 / 1	12.79	22.44	0.175	33.01	-10.57
10 MHz	QPSK	2503.50	H	124	326	9.40	1 / 18	13.09	22.49	0.177	33.01	-10.52
	QPSK	2592.99	H	125	311	9.53	1 / 1	13.68	23.20	0.209	33.01	-9.81
	QPSK	2682.50	H	120	309	9.65	1 / 18	11.76	21.41	0.138	33.01	-11.60
	16-QAM	2592.99	H	125	311	9.53	1 / 1	12.85	22.38	0.173	33.01	-10.63
	$\pi/2$ BPSK	2501.00	H	124	326	9.40	1 / 49	14.01	23.41	0.219	33.01	-9.60
	$\pi/2$ BPSK	2592.99	H	125	311	9.53	1 / 1	14.66	24.19	0.262	33.01	-8.82
100 MHz	$\pi/2$ BPSK	2685.00	H	120	309	9.65	1 / 1	12.47	22.12	0.163	33.01	-10.89
	QPSK	2501.00	H	124	326	9.40	1 / 49	12.61	22.01	0.159	33.01	-11.00
	QPSK	2592.99	H	125	311	9.53	1 / 25	13.57	23.10	0.204	33.01	-9.91
	QPSK	2685.00	H	120	309	9.65	1 / 1	11.12	20.77	0.119	33.01	-12.24
	16-QAM	2592.99	H	125	311	9.53	1 / 25	12.75	22.27	0.169	33.01	-10.74
	QPSK (CP-OFDM)	2592.99	H	122	313	9.53	1 / 1	12.58	22.11	0.162	33.01	-10.91
100 MHz	QPSK (Opposite Pol.)	2592.99	V	152	32	9.53	1 / 1	12.51	22.04	0.160	33.01	-10.98
	QPSK (WCP)	2592.99	H	122	312	9.53	1 / 1	14.31	23.84	0.242	33.01	-9.18

Table 7-20. EIRP Data (NR Band n41 – Ant F - Default)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 108 of 132

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	2546.01	H	104	163	9.46	270 / 0	13.84	23.30	0.214	33.01	-9.71
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	270 / 0	13.98	23.51	0.224	33.01	-9.51
	$\pi/2$ BPSK	2640.00	H	103	177	9.59	1 / 1	14.95	24.54	0.285	33.01	-8.47
	QPSK	2546.01	H	104	163	9.46	270 / 0	13.85	23.31	0.214	33.01	-9.70
	QPSK	2592.99	H	104	162	9.53	1 / 1	13.93	23.46	0.222	33.01	-9.56
	QPSK	2640.00	H	103	177	9.59	1 / 1	15.02	24.61	0.289	33.01	-8.40
	16-QAM	2640.00	H	103	177	9.59	1 / 1	14.33	23.92	0.247	33.01	-9.09
90 MHz	$\pi/2$ BPSK	2541.00	H	104	163	9.45	243 / 0	13.76	23.21	0.209	33.01	-9.80
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	243 / 0	13.95	23.47	0.222	33.01	-9.54
	$\pi/2$ BPSK	2644.98	H	103	177	9.60	243 / 0	14.94	24.54	0.284	33.01	-8.47
	QPSK	2541.00	H	104	163	9.45	1 / 122	14.05	23.50	0.224	33.01	-9.51
	QPSK	2592.99	H	104	162	9.53	1 / 1	13.84	23.37	0.217	33.01	-9.64
	QPSK	2644.98	H	103	177	9.60	243 / 0	14.42	24.02	0.252	33.01	-8.99
	16-QAM	2644.98	H	103	177	9.60	243 / 0	14.00	23.60	0.229	33.01	-9.41
80 MHz	$\pi/2$ BPSK	2536.02	H	104	163	9.44	216 / 0	13.95	23.39	0.218	33.01	-9.62
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	216 / 0	14.05	23.58	0.228	33.01	-9.43
	$\pi/2$ BPSK	2649.99	H	103	177	9.61	216 / 0	15.09	24.69	0.295	33.01	-8.32
	QPSK	2536.02	H	104	163	9.44	216 / 0	13.76	23.20	0.209	33.01	-9.81
	QPSK	2592.99	H	104	162	9.53	1 / 1	14.00	23.52	0.225	33.01	-9.49
	QPSK	2649.99	H	103	177	9.61	216 / 0	14.72	24.33	0.271	33.01	-8.68
	16-QAM	2649.99	H	103	177	9.61	216 / 0	14.06	23.66	0.232	33.01	-9.35
70 MHz	$\pi/2$ BPSK	2531.01	H	104	163	9.43	180 / 0	13.79	23.22	0.210	33.01	-9.79
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	180 / 0	14.01	23.53	0.225	33.01	-9.48
	$\pi/2$ BPSK	2655.00	H	103	177	9.61	180 / 0	14.71	24.33	0.271	33.01	-8.68
	QPSK	2531.01	H	104	163	9.43	180 / 0	13.77	23.20	0.209	33.01	-9.81
	QPSK	2592.99	H	104	162	9.53	180 / 0	13.68	23.20	0.209	33.01	-9.81
	QPSK	2655.00	H	103	177	9.61	180 / 0	14.89	24.50	0.282	33.01	-8.51
	16-QAM	2655.00	H	103	177	9.61	180 / 0	14.24	23.85	0.243	33.01	-9.16
60 MHz	$\pi/2$ BPSK	2526.00	H	104	163	9.43	1 / 160	14.11	23.53	0.226	33.01	-9.48
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	162 / 0	14.00	23.53	0.225	33.01	-9.48
	$\pi/2$ BPSK	2659.98	H	103	177	9.62	162 / 0	14.63	24.25	0.266	33.01	-8.76
	QPSK	2526.00	H	104	163	9.43	1 / 160	13.77	23.20	0.209	33.01	-9.81
	QPSK	2592.99	H	104	162	9.53	162 / 0	13.54	23.06	0.202	33.01	-9.95
	QPSK	2659.98	H	103	177	9.62	162 / 0	13.93	23.55	0.226	33.01	-9.46
	16-QAM	2659.98	H	103	177	9.62	162 / 0	13.27	22.89	0.194	33.01	-10.12
50 MHz	$\pi/2$ BPSK	2521.02	H	104	163	9.42	128 / 0	13.68	23.10	0.204	33.01	-9.91
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	128 / 0	14.21	23.74	0.236	33.01	-9.27
	$\pi/2$ BPSK	2664.99	H	103	177	9.63	128 / 0	14.74	24.37	0.274	33.01	-8.64
	QPSK	2521.02	H	104	163	9.42	1 / 131	13.92	23.34	0.216	33.01	-9.67
	QPSK	2592.99	H	104	162	9.53	128 / 0	13.72	23.25	0.211	33.01	-9.76
	QPSK	2664.99	H	103	177	9.63	128 / 0	14.60	24.22	0.264	33.01	-8.79
	16-QAM	2664.99	H	103	177	9.63	128 / 0	14.10	23.72	0.236	33.01	-9.29
45 MHz	$\pi/2$ BPSK	2518.50	H	104	163	9.41	1 / 53	13.96	23.37	0.217	33.01	-9.64
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	1 / 104	14.35	23.88	0.244	33.01	-9.13
	$\pi/2$ BPSK	2667.50	H	103	177	9.63	1 / 53	14.85	24.49	0.281	33.01	-8.52
	QPSK	2518.50	H	104	163	9.41	1 / 53	14.25	23.67	0.233	33.01	-9.34
	QPSK	2592.99	H	104	162	9.53	1 / 104	13.84	23.36	0.217	33.01	-9.65
	QPSK	2667.50	H	103	177	9.63	100 / 0	14.81	24.45	0.278	33.01	-8.56
	16-QAM	2667.50	H	103	177	9.63	100 / 0	14.58	24.21	0.264	33.01	-8.80
40 MHz	$\pi/2$ BPSK	2516.01	H	104	163	9.41	100 / 0	13.97	23.38	0.218	33.01	-9.63
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	100 / 0	14.45	23.98	0.250	33.01	-9.03
	$\pi/2$ BPSK	2670.00	H	103	177	9.63	100 / 0	15.35	24.98	0.315	33.01	-8.03
	QPSK	2516.01	H	104	163	9.41	1 / 104	14.08	23.49	0.223	33.01	-9.52
	QPSK	2592.99	H	104	162	9.53	100 / 0	13.95	23.48	0.223	33.01	-9.53
	QPSK	2670.00	H	103	177	9.63	100 / 0	15.01	24.64	0.291	33.01	-8.37
	16-QAM	2670.00	H	103	177	9.63	100 / 0	14.33	23.97	0.249	33.01	-9.04
35 MHz	$\pi/2$ BPSK	2513.52	H	104	163	9.40	1 / 39	13.67	23.07	0.203	33.01	-9.94
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	1 / 76	13.98	23.51	0.224	33.01	-9.50
	$\pi/2$ BPSK	2672.49	H	103	177	9.64	1 / 1	14.93	24.57	0.286	33.01	-8.44
	QPSK	2513.52	H	104	163	9.40	1 / 39	13.86	23.26	0.212	33.01	-9.75
	QPSK	2592.99	H	104	162	9.53	1 / 76	13.62	23.14	0.206	33.01	-9.87
	QPSK	2672.49	H	103	177	9.64	1 / 1	14.71	24.36	0.273	33.01	-8.65
	16-QAM	2672.49	H	103	177	9.64	1 / 1	14.14	23.78	0.239	33.01	-9.23

Table 7-21. EIRP Data (NR Band n41 – Ant B - Switching)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 109 of 132

30 MHz	$\pi/2$ BPSK	2511.00	H	104	163	9.40	75 / 0	13.72	23.13	0.205	33.01	-9.88
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	75 / 0	14.26	23.78	0.239	33.01	-9.23
	$\pi/2$ BPSK	2674.98	H	103	177	9.64	75 / 0	15.19	24.83	0.304	33.01	-8.18
	QPSK	2511.00	H	104	163	9.40	75 / 0	13.51	22.91	0.195	33.01	-10.10
	QPSK	2592.99	H	104	162	9.53	75 / 0	14.02	23.54	0.226	33.01	-9.47
	QPSK	2674.98	H	103	177	9.64	75 / 0	15.49	25.14	0.326	33.01	-7.87
25 MHz	16-QAM	2674.98	H	103	177	9.64	75 / 0	14.00	23.64	0.231	33.01	-9.37
	$\pi/2$ BPSK	2508.51	H	104	163	9.40	1 / 25	13.74	23.13	0.206	33.01	-9.88
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	1 / 49	14.42	23.94	0.248	33.01	-9.07
	$\pi/2$ BPSK	2677.50	H	103	177	9.65	1 / 25	15.22	24.86	0.307	33.01	-8.15
	QPSK	2508.51	H	104	163	9.40	1 / 25	13.77	23.17	0.207	33.01	-9.84
	QPSK	2592.99	H	104	162	9.53	1 / 49	13.79	23.32	0.215	33.01	-9.69
20 MHz	QPSK	2677.50	H	103	177	9.65	1 / 25	14.76	24.41	0.276	33.01	-8.60
	16-QAM	2677.50	H	103	177	9.65	1 / 25	14.11	23.76	0.238	33.01	-9.25
	$\pi/2$ BPSK	2506.02	H	104	163	9.40	50 / 0	13.70	23.10	0.204	33.01	-9.91
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	50 / 0	14.27	23.80	0.240	33.01	-9.21
	$\pi/2$ BPSK	2679.99	H	103	177	9.65	50 / 0	15.21	24.85	0.306	33.01	-8.16
	QPSK	2506.02	H	104	163	9.40	50 / 0	13.69	23.09	0.204	33.01	-9.92
15 MHz	QPSK	2592.99	H	104	162	9.53	50 / 0	13.75	23.28	0.213	33.01	-9.73
	QPSK	2679.99	H	103	177	9.65	50 / 0	14.77	24.42	0.277	33.01	-8.59
	16-QAM	2679.99	H	103	177	9.65	50 / 0	14.23	23.88	0.244	33.01	-9.13
	$\pi/2$ BPSK	2503.50	H	104	163	9.40	50 / 0	13.69	23.09	0.204	33.01	-9.92
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	50 / 0	14.36	23.88	0.245	33.01	-9.13
	$\pi/2$ BPSK	2682.50	H	103	177	9.65	50 / 0	15.12	24.77	0.300	33.01	-8.24
10 MHz	QPSK	2503.50	H	104	163	9.40	1 / 18	14.07	23.46	0.222	33.01	-9.55
	QPSK	2592.99	H	104	162	9.53	50 / 0	14.08	23.61	0.230	33.01	-9.40
	QPSK	2682.50	H	103	177	9.65	1 / 18	14.81	24.46	0.279	33.01	-8.55
	16-QAM	2682.50	H	103	177	9.65	50 / 0	14.27	23.92	0.247	33.01	-9.09
	$\pi/2$ BPSK	2501.00	H	104	163	9.40	50 / 0	13.80	23.20	0.209	33.01	-9.81
	$\pi/2$ BPSK	2592.99	H	104	162	9.53	1 / 1	14.39	23.91	0.246	33.01	-9.10
100 MHz	$\pi/2$ BPSK	2685.00	H	103	177	9.65	50 / 0	14.96	24.61	0.289	33.01	-8.40
	QPSK	2501.00	H	104	163	9.40	1 / 1	13.71	23.10	0.204	33.01	-9.91
	QPSK	2592.99	H	104	162	9.53	50 / 0	14.01	23.54	0.226	33.01	-9.47
	QPSK	2685.00	H	103	177	9.65	1 / 1	14.68	24.33	0.271	33.01	-8.68
	16-QAM	2685.00	H	103	177	9.65	50 / 0	14.32	23.96	0.249	33.01	-9.05
	QPSK (CP-OFDM)	2640.00	H	103	174	9.53	1 / 1	13.90	23.43	0.220	33.01	-9.59
100 MHz	QPSK (Opposite Pol.)	2640.00	V	123	281	9.53	1 / 1	12.59	22.12	0.163	33.01	-10.90
	QPSK (WCP)	2640.00	H	105	171	9.46	1/1	12.72	22.18	0.165	33.01	-10.83

Table 7-22. EIRP Data (NR Band n41 – Ant B - Switching)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 110 of 132

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	X	106	328	9.40	1 / 0	13.63	23.03	0.201	33.01	-9.98
	QPSK	2593.0	H	X	104	317	9.53	1 / 0	12.57	22.10	0.162	33.01	-10.92
	QPSK	2680.0	H	X	112	318	9.65	1 / 50	12.03	21.68	0.147	33.01	-11.33
	16-QAM	2506.0	H	X	106	328	9.40	1 / 0	12.41	21.81	0.152	33.01	-11.20
15 MHz	QPSK	2503.5	H	X	106	328	9.39	1 / 74	13.68	23.07	0.203	33.01	-9.94
	QPSK	2593.0	H	X	104	317	9.53	1 / 74	12.57	22.10	0.162	33.01	-10.91
	QPSK	2682.5	H	X	112	318	9.65	1 / 74	12.11	21.77	0.150	33.01	-11.24
	16-QAM	2503.5	H	X	106	328	9.39	1 / 74	12.17	21.56	0.143	33.01	-11.45
10 MHz	QPSK	2501.0	H	X	106	328	9.39	1 / 25	13.65	23.04	0.201	33.01	-9.97
	QPSK	2593.0	H	X	104	317	9.53	1 / 25	12.52	22.04	0.160	33.01	-10.97
	QPSK	2685.0	H	X	112	318	9.66	1 / 25	12.12	21.77	0.150	33.01	-11.24
	16-QAM	2501.0	H	X	106	328	9.39	1 / 25	12.16	21.55	0.143	33.01	-11.46
5 MHz	QPSK	2498.5	H	X	106	328	9.39	1 / 12	13.62	23.01	0.200	33.01	-10.00
	QPSK	2593.0	H	X	104	317	9.53	1 / 0	12.58	22.10	0.162	33.01	-10.91
	QPSK	2687.5	H	X	112	318	9.66	1 / 12	12.07	21.73	0.149	33.01	-11.28
	16-QAM	2498.5	H	X	106	328	9.39	1 / 12	11.96	21.34	0.136	33.01	-11.67
20 MHz	Opposite Pol.	2506.0	V	Z	162	323	9.40	1 / 0	12.19	21.59	0.144	33.01	-11.42
	WCP	2506.0	H	X	110	328	9.40	1 / 0	13.28	22.68	0.185	33.01	-10.33

Table 7-23. EIRP Data (LTE Band 41(PC3)– Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 111 of 132

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 112 of 132

Test Setup

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

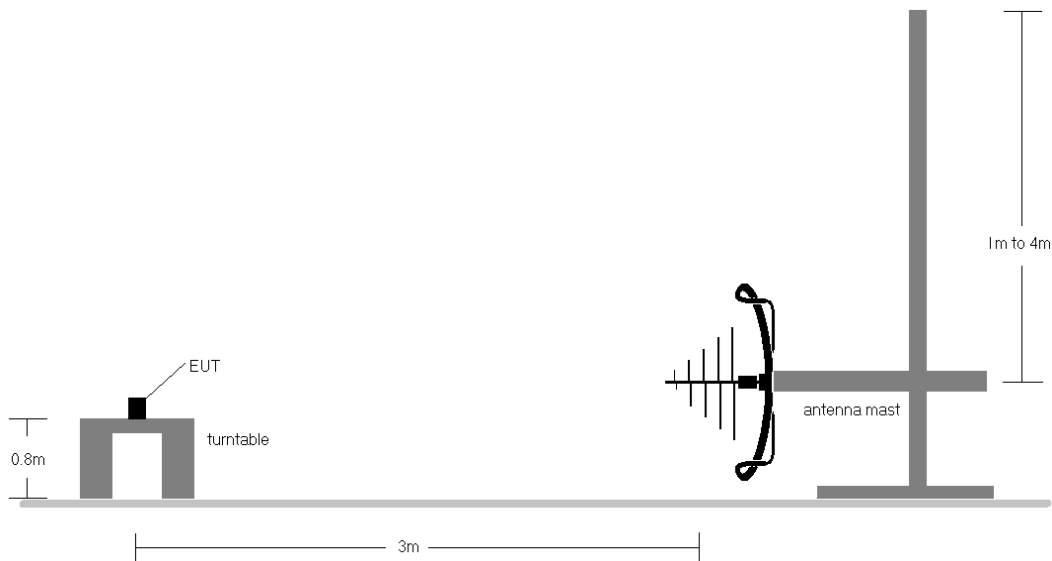


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

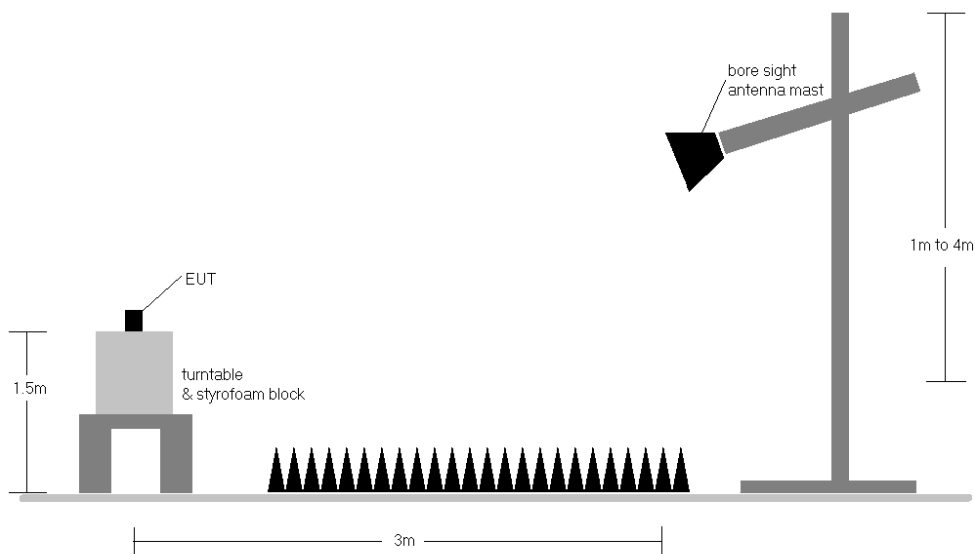


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

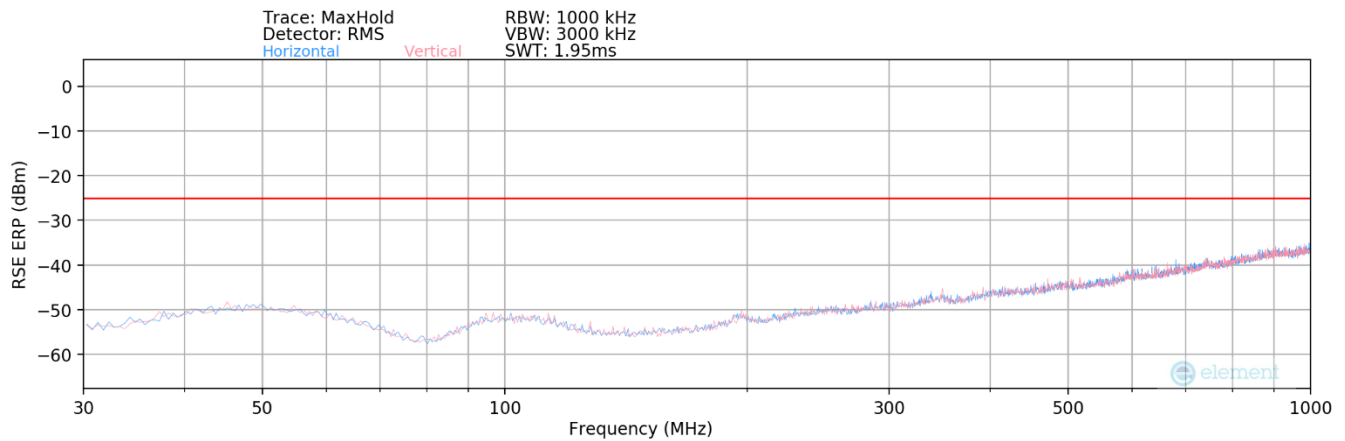
FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 113 of 132

Test Notes

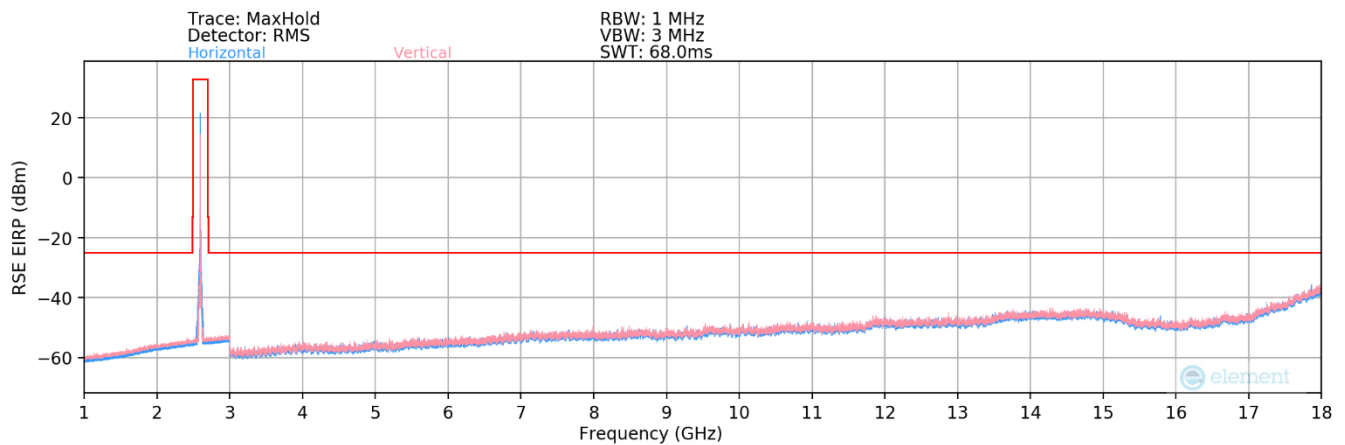
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) 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.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 114 of 132

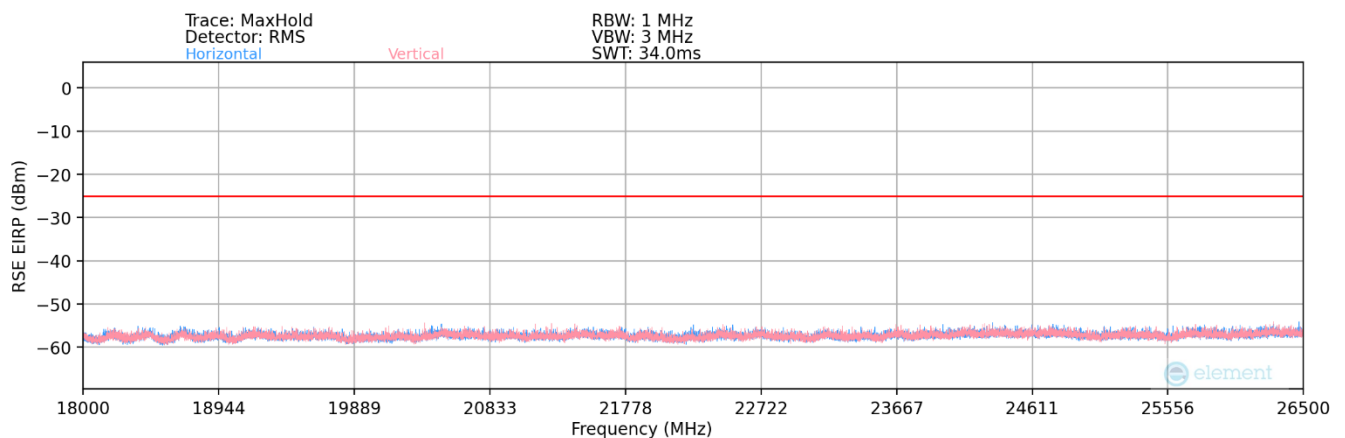
LTE Band 41(PC3)– Ant B



Plot 7-139. Radiated Spurious Plot (LTE Band 41(PC3)– Ant B)



Plot 7-140. Radiated Spurious Plot (LTE Band 41(PC3)– Ant B)



Plot 7-141. Radiated Spurious Plot (LTE Band 41(PC3)– Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 115 of 132

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	-	-	-75.71	2.41	33.70	-61.56	-25.00	-36.56
7518.00	H	-	-	-77.63	6.93	36.30	-58.96	-25.00	-33.96
10024.00	H	-	-	-79.31	10.94	38.63	-56.63	-25.00	-31.63
20048.00	H	-	-	-53.26	-3.63	50.11	-54.69	-25.00	-29.69
22554.00	H	-	-	-52.46	-3.50	51.04	-53.76	-25.00	-28.76

Table 7-24. Radiated Spurious Data (LTE Band 41(PC3)– Low Channel – Ant B)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	-	-	-75.51	2.23	33.72	-61.54	-25.00	-36.54
7779.00	H	-	-	-77.80	7.42	36.62	-58.63	-25.00	-33.63
10372.00	H	-	-	-79.69	11.13	38.44	-56.82	-25.00	-31.82
18151.00	H	-	-	-52.79	-3.22	50.99	-53.81	-25.00	-28.81
20744.00	H	-	-	-52.49	-3.37	51.14	-53.66	-25.00	-28.66
23337.00	H	-	-	-52.08	-3.60	51.32	-53.48	-25.00	-28.48

Table 7-25. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant B)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	-	-	-76.11	3.12	34.01	-61.25	-25.00	-36.25
8040.00	H	-	-	-77.83	7.42	36.59	-58.66	-25.00	-33.66
10720.00	H	-	-	-79.31	11.57	39.26	-55.99	-25.00	-30.99
18760.00	H	-	-	-52.63	-3.25	51.12	-53.68	-25.00	-28.68
21440.00	H	-	-	-52.73	-3.23	51.04	-53.76	-25.00	-28.76
24120.00	H	-	-	-52.41	-3.21	51.38	-53.42	-25.00	-28.42

Table 7-26. Radiated Spurious Data (LTE Band 41(PC3)– High Channel – Ant B)

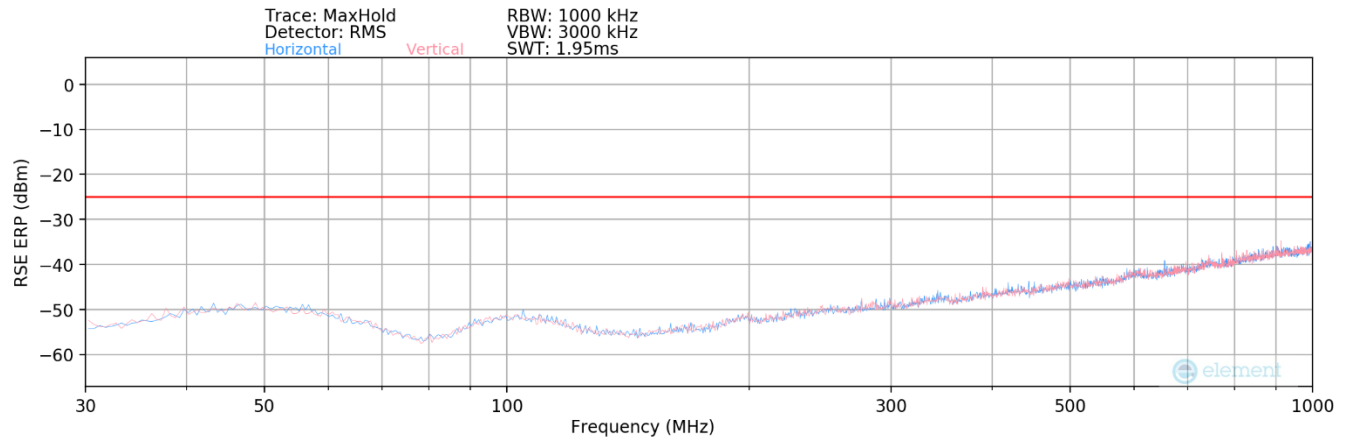
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
290.96	H	-	-	-97.07	20.37	30.30	-67.11	-25.00	-42.11
670.63	H	-	-	-96.63	27.52	37.89	-59.51	-25.00	-34.51
981.57	H	-	-	-95.69	31.10	42.41	-54.99	-25.00	-29.99

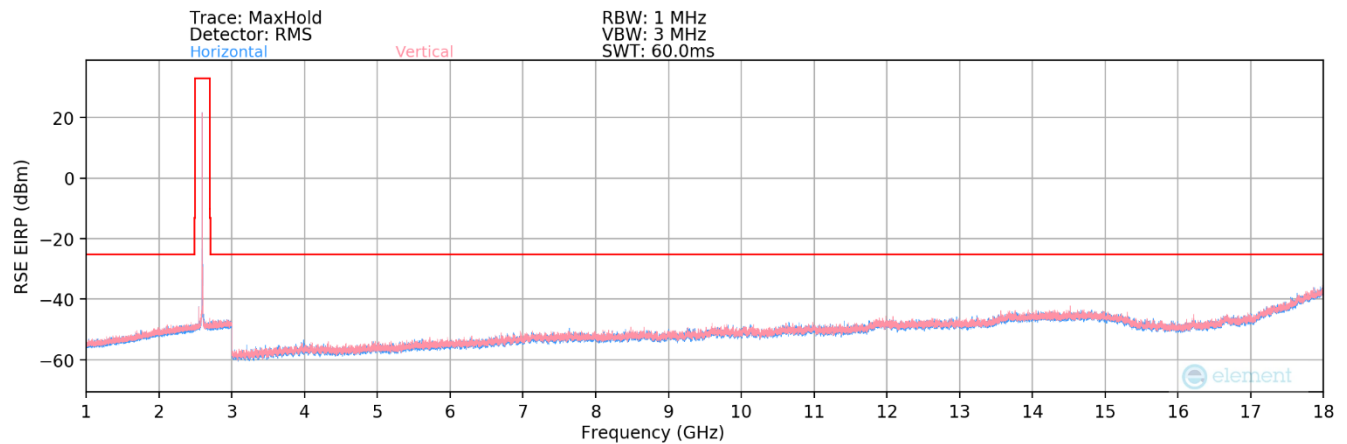
Table 7-27. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 116 of 132

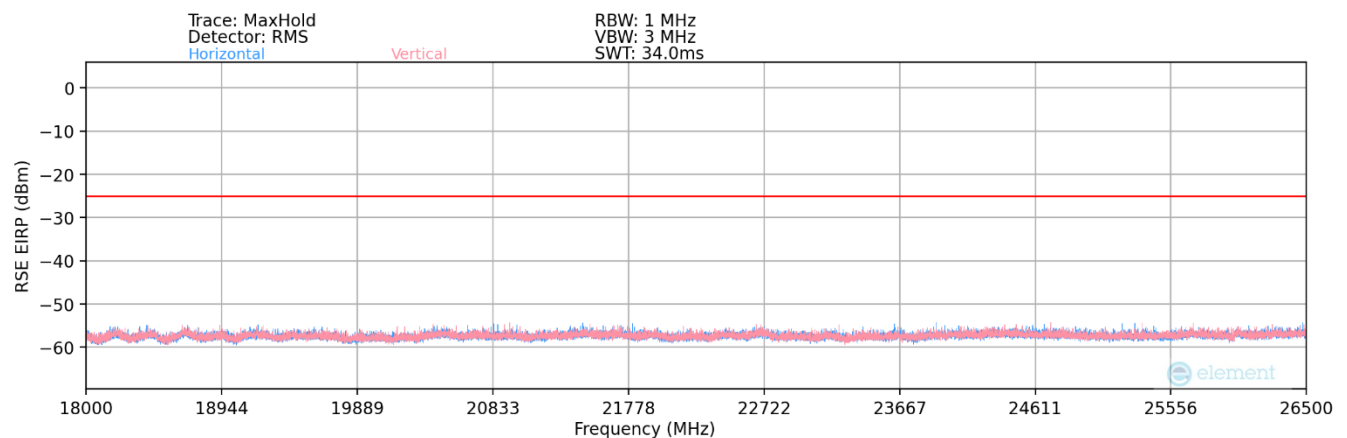
NR Band n41 – Ant F – Default



Plot 7-142. Radiated Spurious Plot (NR Band n41 – Ant F)



Plot 7-143. Radiated Spurious Plot (NR Band n41 – Ant F)



Plot 7-144. Radiated Spurious Plot (NR Band n41 – Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 117 of 132

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	H	137	110	-65.11	1.93	43.82	-51.44	-25.00	-26.44
7638.03	H	169	54	-75.45	7.24	38.79	-56.47	-25.00	-31.47
10184.04	H	-	-	-80.00	10.88	37.88	-57.38	-25.00	-32.38
12730.05	H	-	-	-80.19	14.22	41.03	-54.23	-25.00	-29.23
15276.06	H	-	-	-80.91	16.10	42.19	-53.07	-25.00	-28.07
20368.08	H	-	-	-52.46	-3.37	51.17	-53.63	-25.00	-28.63
22914.09	H	-	-	-52.08	-3.60	51.32	-53.48	-25.00	-28.48

Table 7-28. Radiated Spurious Data (NR Band n41 – Low Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	123	114	-71.90	2.23	37.33	-57.93	-25.00	-32.93
7778.97	H	162	64	-74.23	7.42	40.19	-55.06	-25.00	-30.06
10371.96	H	-	-	-79.91	11.13	38.22	-57.04	-25.00	-32.04
12964.95	H	-	-	-79.71	14.06	41.35	-53.90	-25.00	-28.90
15557.94	H	-	-	-81.15	14.91	40.76	-54.49	-25.00	-29.49
18150.93	H	-	-	-51.35	-3.22	52.43	-52.37	-25.00	-27.37
20743.92	H	-	-	-52.43	-3.37	51.20	-53.60	-25.00	-28.60
23336.91	H	-	-	-51.82	-3.60	51.58	-53.22	-25.00	-28.22

Table 7-29. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant F)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	131	118	-63.47	2.23	45.76	-49.50	-25.00	-24.50
7920.00	H	177	42	-68.22	7.39	46.17	-49.08	-25.00	-24.08
10560.00	H	-	-	-79.11	11.35	39.24	-56.01	-25.00	-31.01
13200.00	H	-	-	-80.15	14.11	40.96	-54.29	-25.00	-29.29
15840.00	H	-	-	-80.54	13.91	40.37	-54.89	-25.00	-29.89
18480.00	H	-	-	-51.64	-3.41	51.95	-52.85	-25.00	-27.85
21120.00	H	-	-	-52.58	-3.46	50.96	-53.84	-25.00	-28.84
23760.00	H	-	-	-52.01	-3.47	51.52	-53.28	-25.00	-28.28

Table 7-30. Radiated Spurious Data (NR Band n41 – High Channel – Ant F)

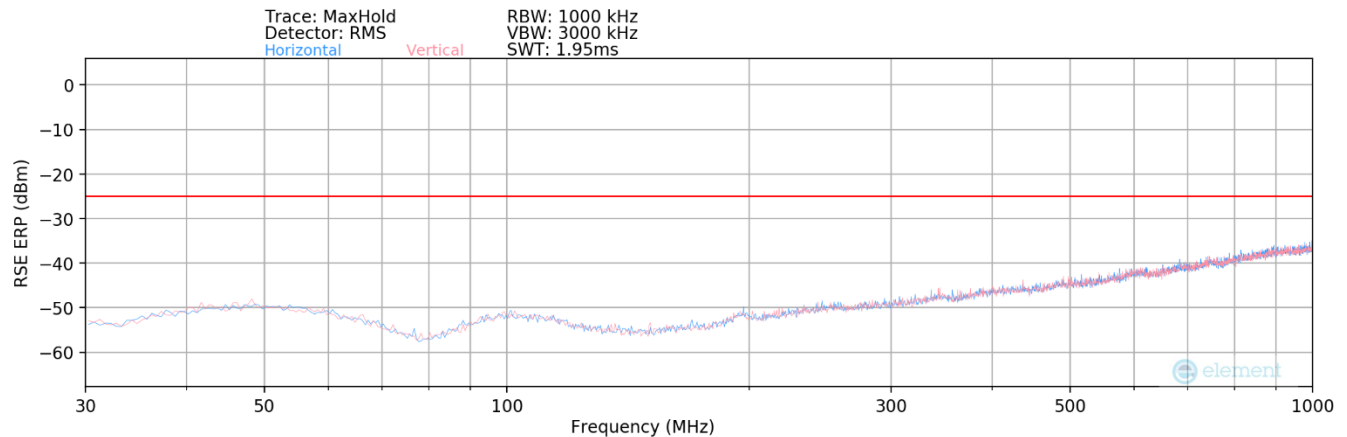
Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
294.78	H	-	-	-96.83	20.45	30.62	-66.79	-25.00	-41.79
551.11	H	-	-	-95.97	25.50	36.53	-60.88	-25.00	-35.88
954.95	H	-	-	-95.95	30.78	41.83	-55.58	-25.00	-30.58

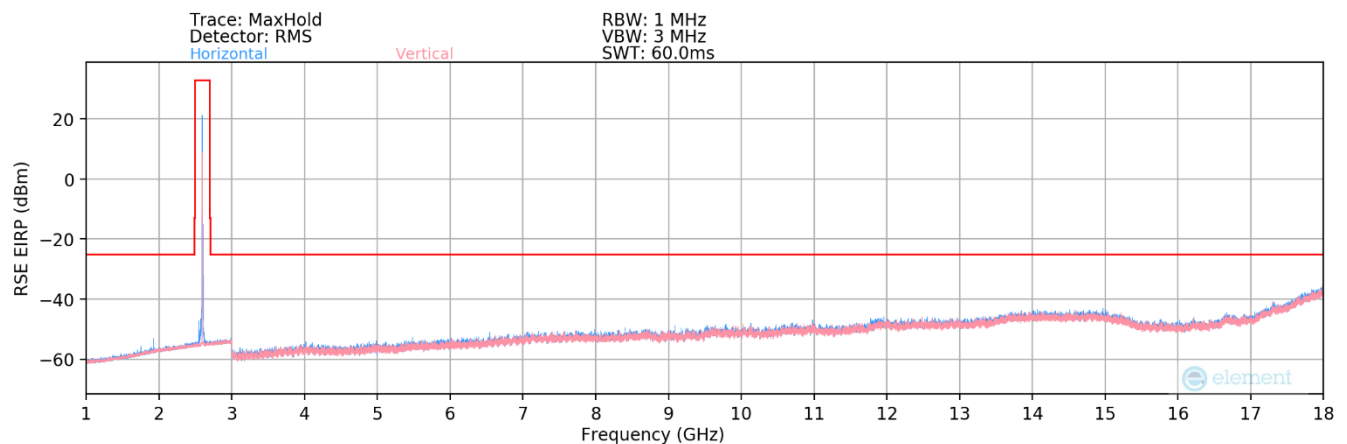
Table 7-31. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager	
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset						Page 118 of 132	

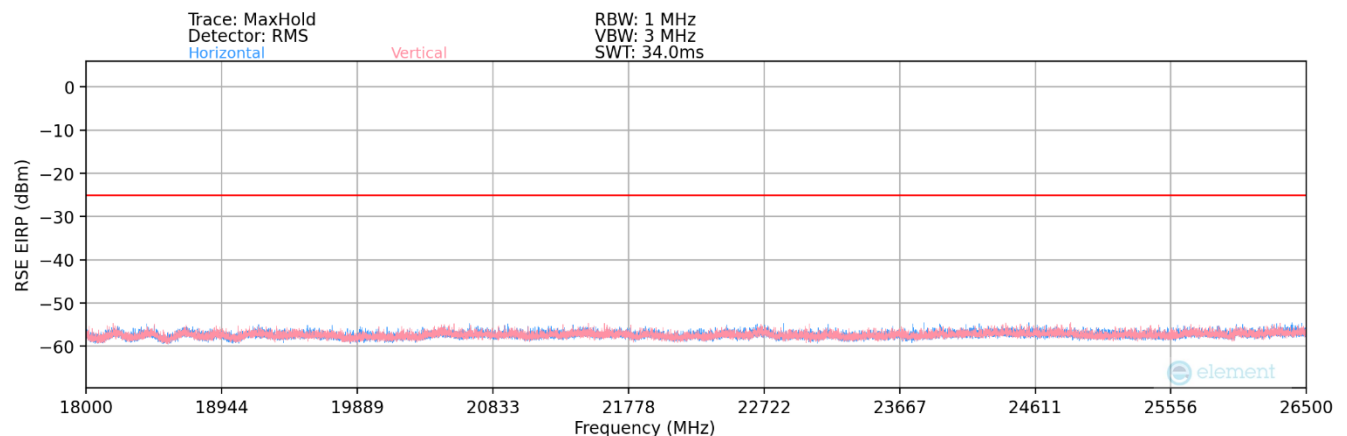
NR Band n41 – Ant B – Switching



Plot 7-145. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-146. Radiated Spurious Plot (NR Band n41 – Ant B)



Plot 7-147. Radiated Spurious Plot (NR Band n41 – Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 119 of 132

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	H	-	-	-69.15	1.94	39.79	-55.47	-25.00	-30.47
7638.03	H	-	-	-69.48	7.24	44.76	-50.49	-25.00	-25.49
10184.04	H	-	-	-71.03	11.57	47.54	-47.72	-25.00	-22.72
12730.05	H	-	-	-71.31	14.11	49.80	-45.46	-25.00	-20.46
15276.06	H	-	-	-71.58	17.01	52.43	-42.83	-25.00	-17.83

Table 7-32. Radiated Spurious Data (NR Band n41 – Low Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	-	-	-68.64	2.20	40.56	-54.70	-25.00	-29.70
7778.97	H	-	-	-69.33	7.70	45.37	-49.88	-25.00	-24.88
10371.96	H	-	-	-71.04	11.96	47.92	-47.33	-25.00	-22.33
12964.95	H	-	-	-71.32	14.74	50.42	-44.83	-25.00	-19.83
15557.94	H	-	-	-71.64	15.42	50.78	-44.48	-25.00	-19.48

Table 7-33. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	-	-	-68.65	2.15	40.50	-54.76	-25.00	-29.76
7920.00	H	-	-	-69.86	7.68	44.82	-50.44	-25.00	-25.44
10560.00	H	-	-	-71.21	11.97	47.76	-47.50	-25.00	-22.50
13200.00	H	-	-	-71.38	14.36	49.98	-45.27	-25.00	-20.27
15840.00	H	-	-	-71.35	14.53	50.18	-45.08	-25.00	-20.08

Table 7-34. Radiated Spurious Data (NR Band n41 – High Channel – Ant B)

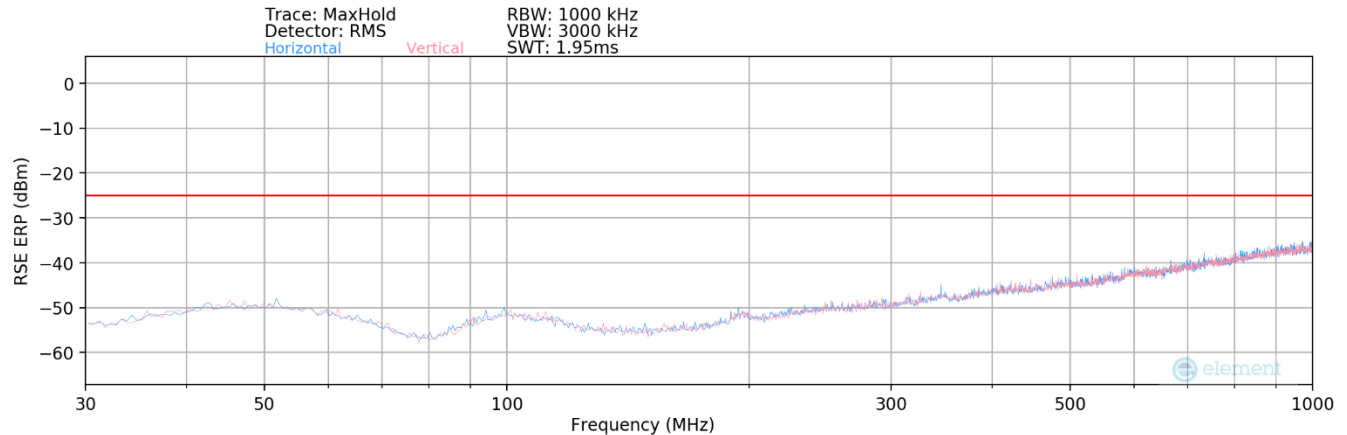
Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1/108

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
998.47	H	-	-	-78.56	31.51	59.95	-37.46	-25.00	-12.46

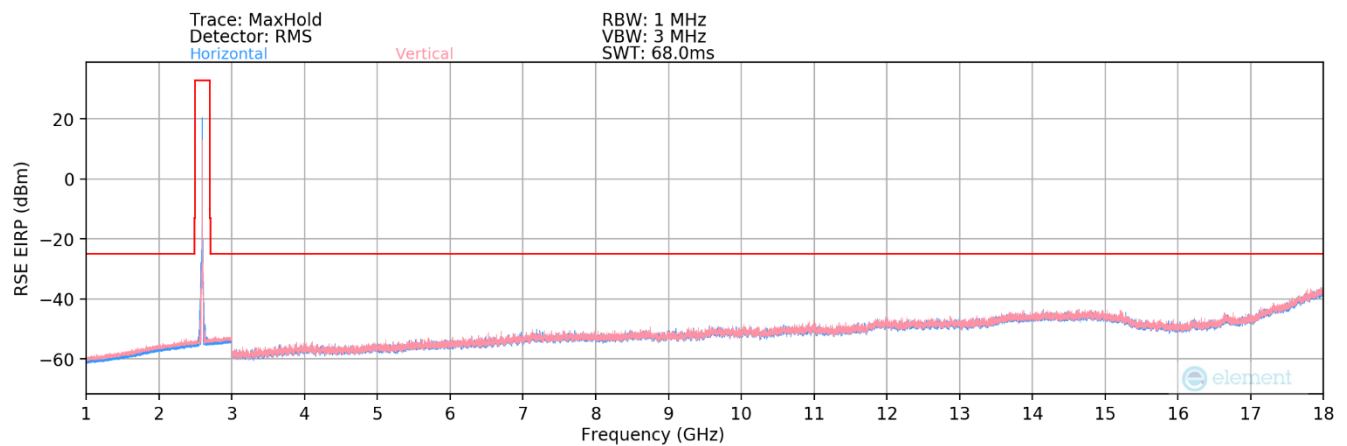
Table 7-35. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset		Page 120 of 132

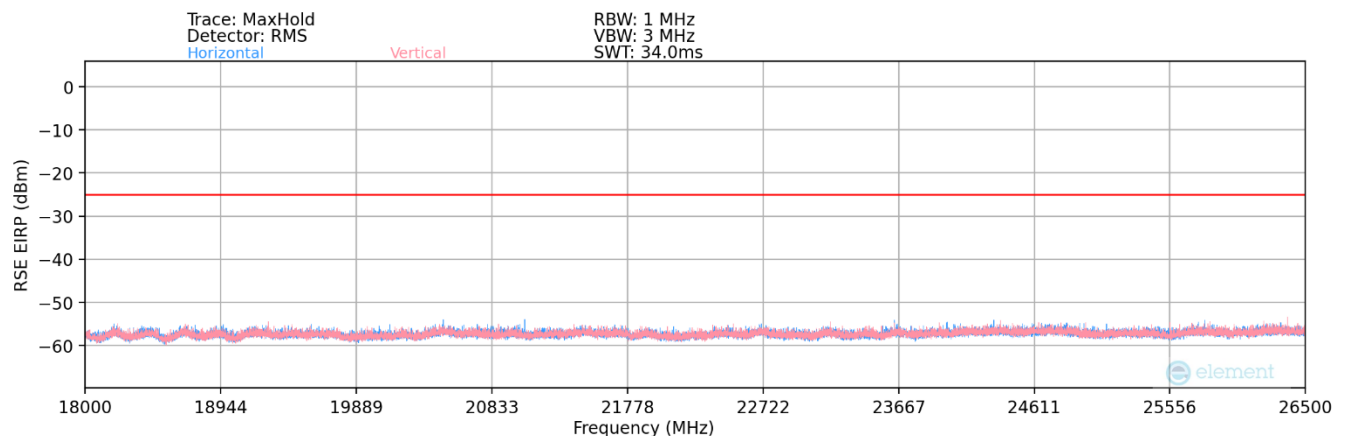
LTE Band 41(PC3)– Ant F



Plot 7-148. Radiated Spurious Plot (LTE Band 41(PC3)– Ant F)



Plot 7-149. Radiated Spurious Plot (LTE Band 41(PC3)– Ant F)



Plot 7-150. Radiated Spurious Plot (LTE Band 41(PC3)– Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 121 of 132

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	-	-	-75.67	2.41	33.74	-61.52	-25.00	-36.52
7518.00	H	-	-	-77.50	6.93	36.43	-58.83	-25.00	-33.83
10024.00	H	-	-	-79.32	10.94	38.62	-56.64	-25.00	-31.64
20048.00	H	-	-	-53.31	-3.63	50.06	-54.74	-25.00	-29.74
22554.00	H	-	-	-52.42	-3.50	51.08	-53.72	-25.00	-28.72

Table 7-36. Radiated Spurious Data (LTE Band 41(PC3)– Low Channel – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	-	-	-75.54	2.23	33.69	-61.57	-25.00	-36.57
7779.00	H	-	-	-77.72	7.42	36.70	-58.55	-25.00	-33.55
10372.00	H	-	-	-79.72	11.13	38.41	-56.85	-25.00	-31.85
18151.00	H	-	-	-52.68	-3.22	51.10	-44.16	-25.00	-19.16
20744.00	H	-	-	-52.42	-3.37	51.21	-53.59	-25.00	-28.59
23337.00	H	-	-	-52.26	-3.60	51.14	-53.66	-25.00	-28.66

Table 7-37. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	-	-	-76.25	3.12	33.87	-61.39	-25.00	-36.39
8040.00	H	-	-	-77.88	7.42	36.54	-58.71	-25.00	-33.71
10720.00	H	-	-	-79.26	11.57	39.31	-55.94	-25.00	-30.94
18760.00	H	-	-	-52.74	-3.25	51.01	-44.25	-25.00	-19.25
21440.00	H	-	-	-52.59	-3.23	51.18	-53.62	-25.00	-28.62
24120.00	H	-	-	-52.36	-3.21	51.43	-53.37	-25.00	-28.37

Table 7-38. Radiated Spurious Data (LTE Band 41(PC3)– High Channel – Ant F)

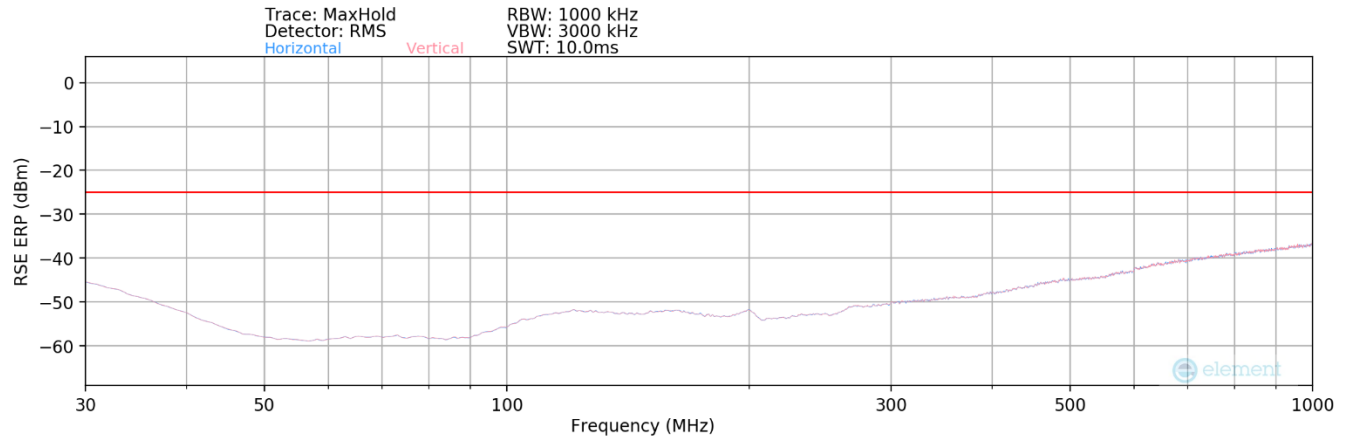
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1/25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
280.71	H	-	-	-96.85	20.16	30.31	-67.10	-25.00	-42.10
679.82	H	-	-	-96.57	27.71	38.14	-59.26	-25.00	-34.26
915.64	H	-	-	-95.72	30.74	42.02	-55.39	-25.00	-30.39

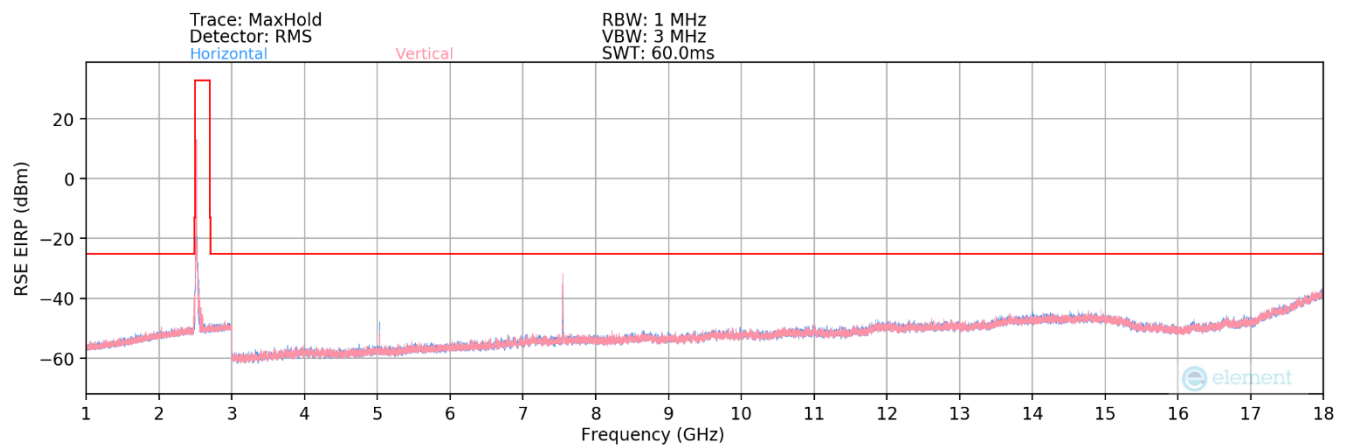
Table 7-39. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 122 of 132

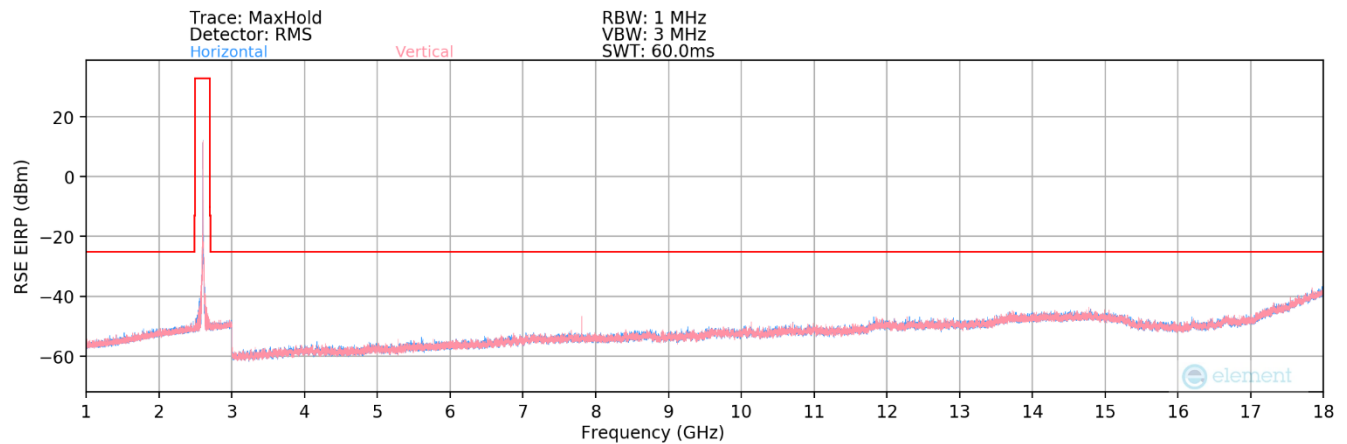
ULCA LTE Band 41(PC3)– Ant F



Plot 7-151. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Ant F)

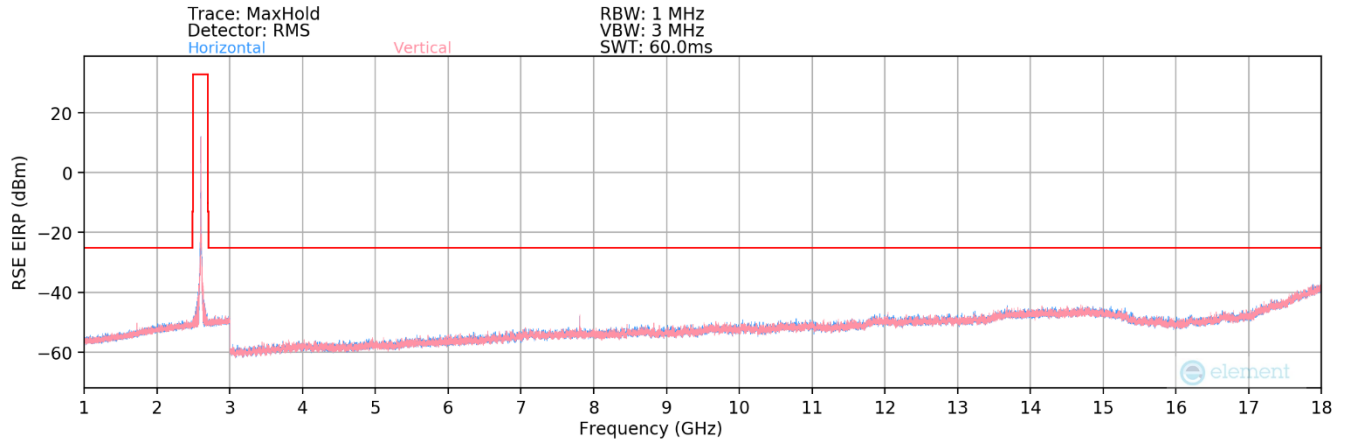


Plot 7-152. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Low Channel Ant F)

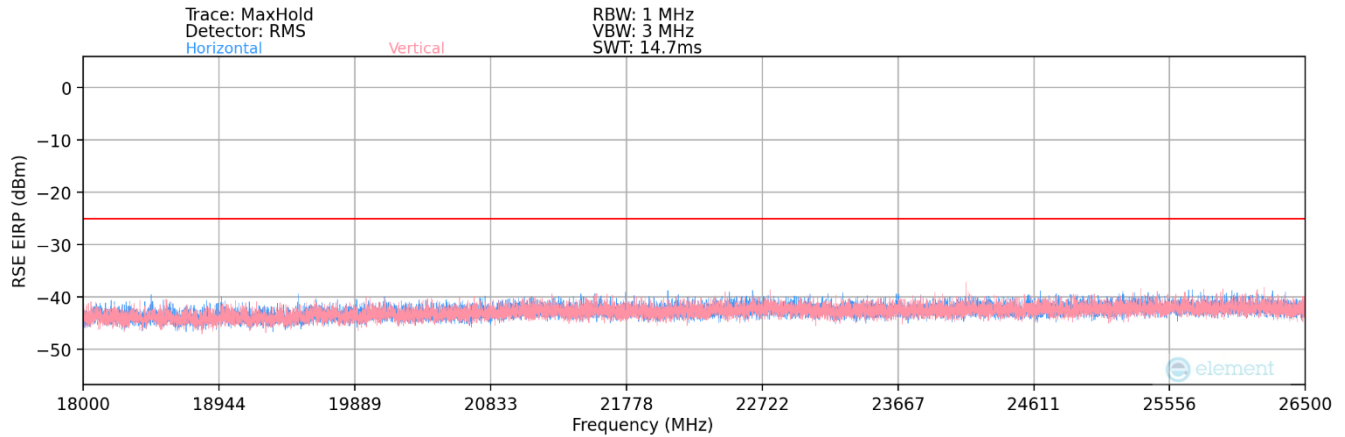


Plot 7-153. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Mid Channel Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 123 of 132



Plot 7-154. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– High Channel Ant F)



Plot 7-155. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Ant F)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	121	20	-67.76	2.41	41.65	-53.61	-25.00	-28.61
7518.00	V	107	330	-53.04	6.93	60.89	-34.37	-25.00	-9.37
10024.00	V	-	-	-78.75	10.94	39.19	-56.07	-25.00	-31.07
12530.00	V	-	-	-78.18	13.64	42.46	-52.80	-25.00	-27.80
15036.00	V	-	-	-78.43	16.76	45.33	-49.93	-25.00	-24.93

Table 7-40. Radiated Spurious Data (LTE Band 41(PC3)– Low Channel – Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset		Page 124 of 132

PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	-	-	-76.41	2.23	32.82	-62.44	-25.00	-37.44
7779.00	V	103	330	-70.28	7.42	44.14	-51.11	-25.00	-26.11
10372.00	V	-	-	-78.16	11.13	39.97	-55.29	-25.00	-30.29
12965.00	V	-	-	-78.68	14.06	42.38	-52.87	-25.00	-27.87
15558.00	V	-	-	-78.53	14.91	43.38	-51.87	-25.00	-26.87

Table 7-41. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant F)

PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	-	-	-76.89	3.12	33.23	-62.03	-25.00	-37.03
8040.00	V	103	328	-74.92	7.42	39.50	-55.75	-25.00	-30.75
10720.00	V	-	-	-78.03	11.57	40.54	-54.71	-25.00	-29.71
13400.00	V	-	-	-78.94	14.49	42.55	-52.70	-25.00	-27.70
16080.00	V	-	-	-78.72	13.46	41.74	-53.52	-25.00	-28.52

Table 7-42. Radiated Spurious Data (LTE Band 41(PC3)– High Channel – Ant F)

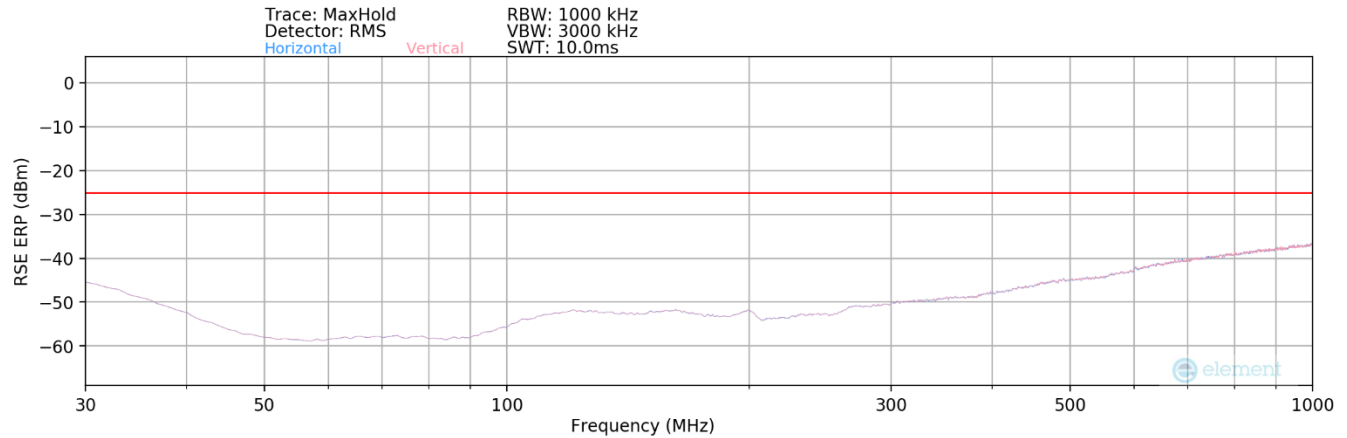
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
208.60	V	-	-	-91.95	17.67	32.72	-64.69	-25.00	-39.69

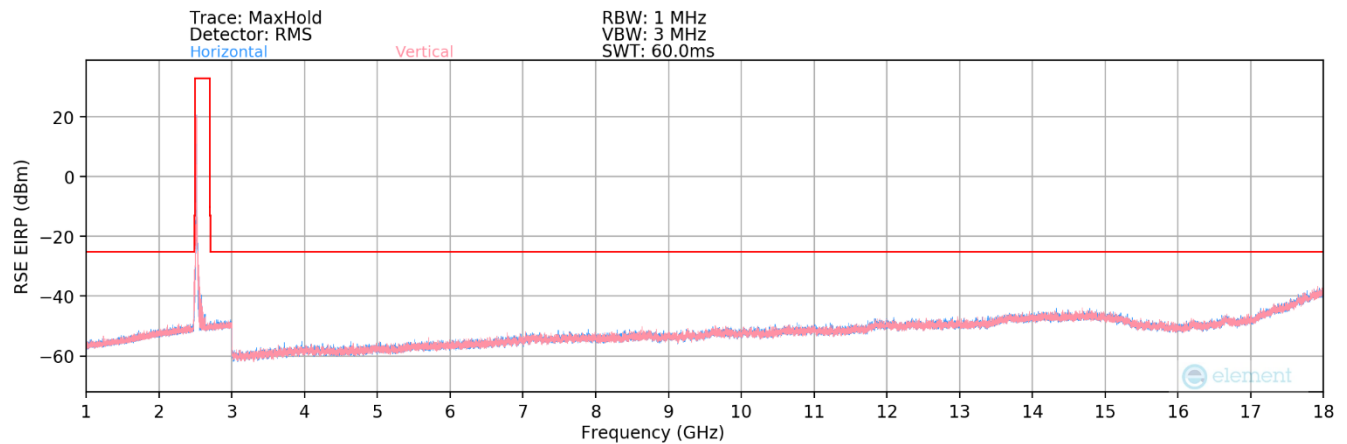
Table 7-43. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant F)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset		Page 125 of 132

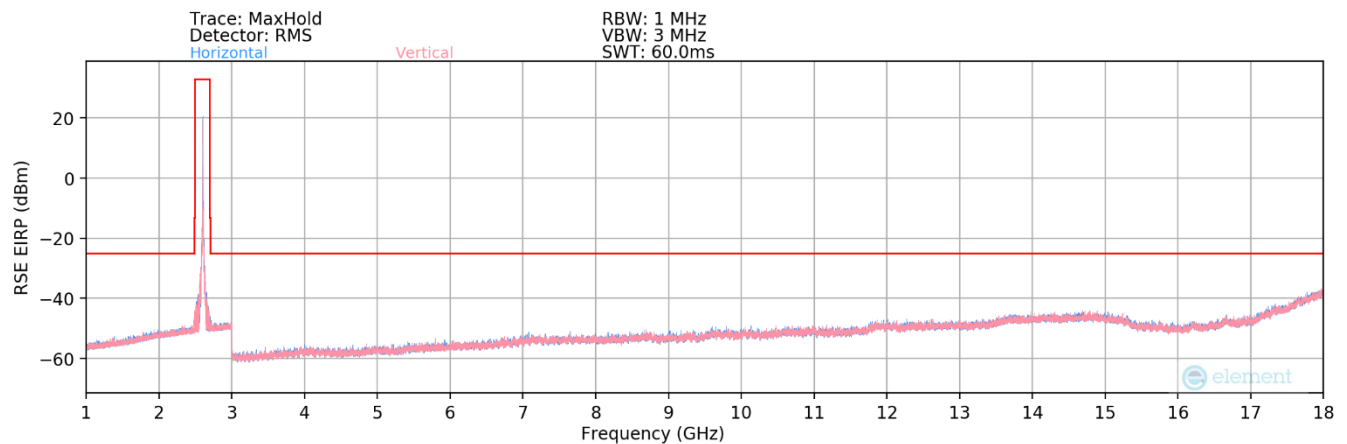
ULCA LTE Band 41(PC3)– Ant B



Plot 7-156. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Ant B)

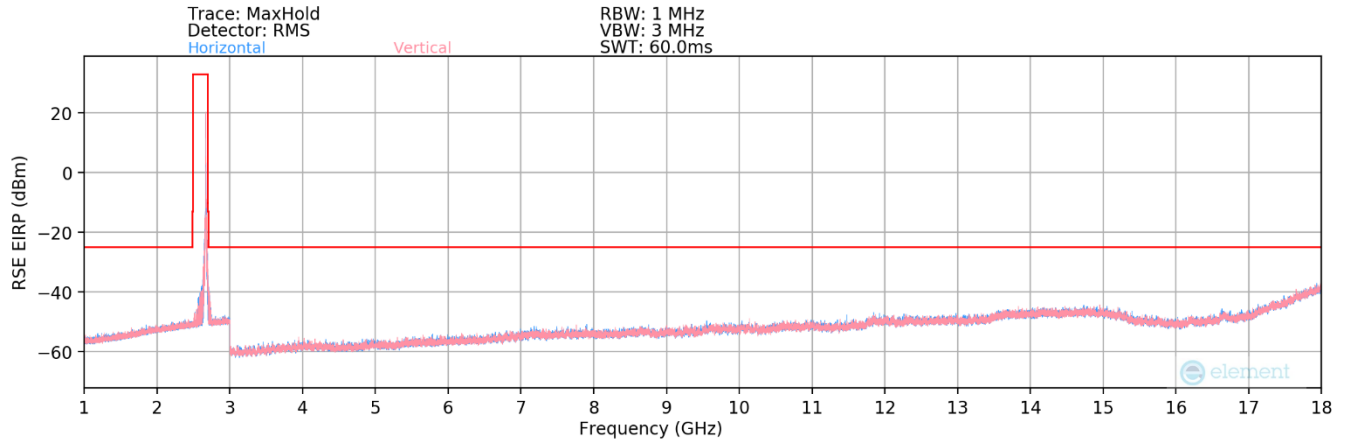


Plot 7-157. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Low Channel Ant B)

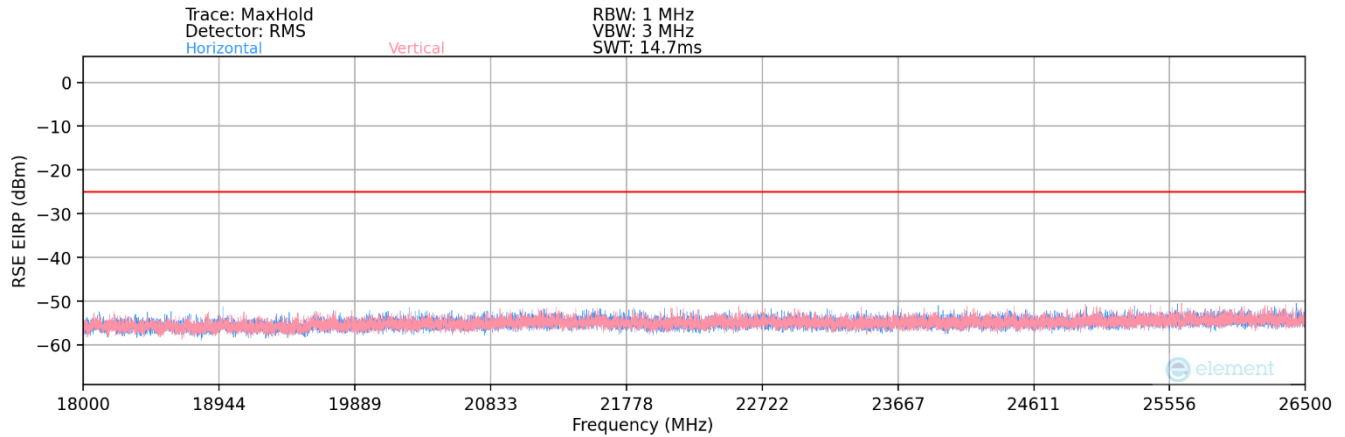


Plot 7-158. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Mid Channel Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 126 of 132



Plot 7-159. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– High Channel Ant B)



Plot 7-160. Radiated Spurious Plot (ULCA LTE Band 41(PC3)– Ant B)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	H	-	-	-75.68	2.41	33.73	-61.53	-25.00	-36.53
7518.00	H	-	-	-76.91	6.93	37.02	-58.24	-25.00	-33.24
10024.00	H	-	-	-78.79	10.94	39.15	-56.11	-25.00	-31.11

Table 7-44. Radiated Spurious Data (LTE Band 41(PC3)– Low Channel – Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset			Page 127 of 132	

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	-	-	-76.45	2.23	32.78	-62.48	-25.00	-37.48
7779.00	H	-	-	-77.16	7.42	37.26	-57.99	-25.00	-32.99
10372.00	H	-	-	-78.27	11.13	39.86	-55.40	-25.00	-30.40

Table 7-45. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant B)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	-	-	-76.92	3.12	33.20	-62.06	-25.00	-37.06
8040.00	H	-	-	-77.91	7.42	36.51	-58.74	-25.00	-33.74
10720.00	H	-	-	-78.11	11.57	40.46	-54.79	-25.00	-29.79

Table 7-46. Radiated Spurious Data (LTE Band 41(PC3)– High Channel – Ant B)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
685.00	H	-	-	-86.20	28.52	49.32	-48.09	-25.00	-23.09

Table 7-47. Radiated Spurious Data (LTE Band 41(PC3)– Mid Channel – Ant B)

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset		Page 128 of 132

7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

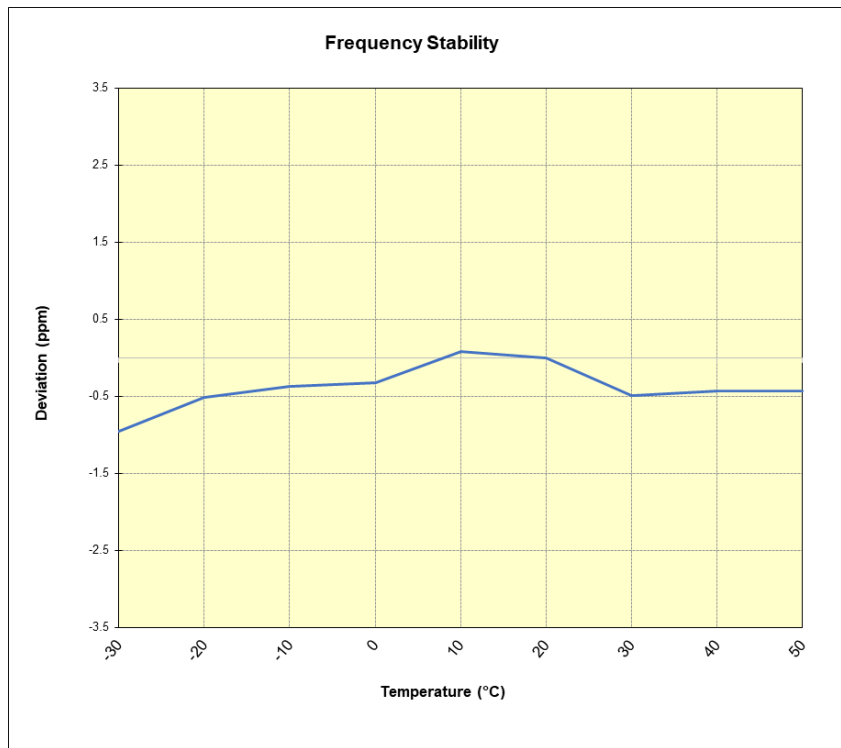
Test Notes

None

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 129 of 132

LTE Band 41					
Operating Frequency (Hz):			2,593,000,000		
Ref. Voltage (VDC):			3.85		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	2,593,097,129	-2,479	-0.0000956
		- 20	2,593,098,259	-1,349	-0.0000520
		- 10	2,593,098,654	-954	-0.0000368
		0	2,593,098,752	-856	-0.0000330
		+ 10	2,593,099,804	196	0.0000076
		+ 20 (Ref)	2,593,099,608	0	0.0000000
		+ 30	2,593,098,323	-1,285	-0.0000496
		+ 40	2,593,098,495	-1,113	-0.0000429
Battery Endpoint	3.21	+ 50	2,593,098,499	-1,109	-0.0000428
		+ 20	2,593,099,456	-152	-0.0000059

Table 7-48. LTE Band 41 Frequency Stability Data

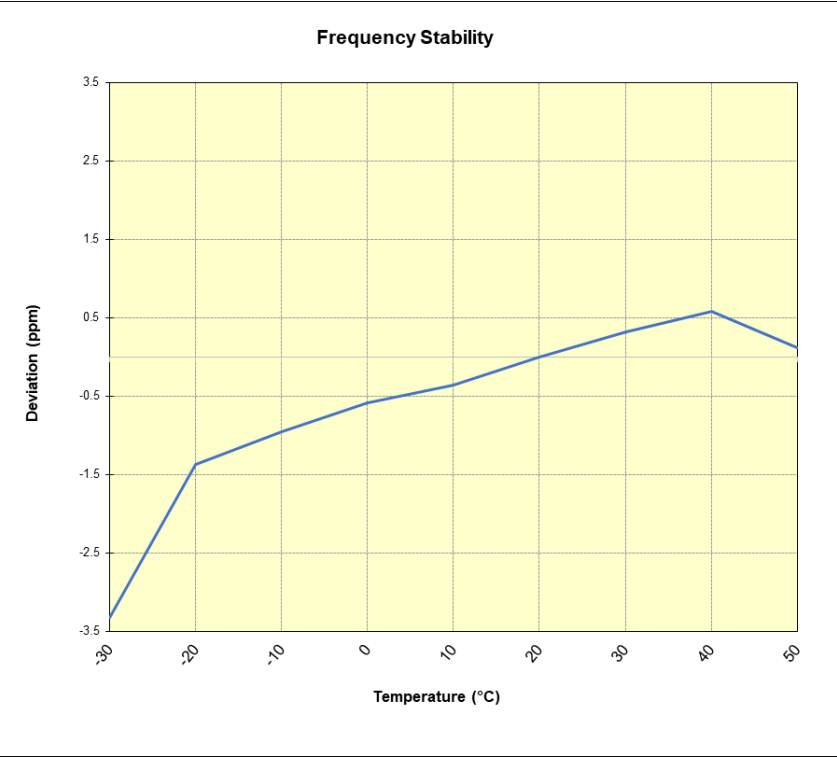


Plot 7-161. LTE Band 41 Frequency Stability Chart

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 130 of 132

NR Band n41					
			Operating Frequency (Hz):		2,593,000,000
			Ref. Voltage (VDC):		3.863
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	2,593,085,352	-8,594	-0.0003314
		- 20	2,593,090,411	-3,535	-0.0001363
		- 10	2,593,091,475	-2,471	-0.0000953
		0	2,593,092,444	-1,502	-0.0000579
		+ 10	2,593,093,014	-932	-0.0000359
		+ 20 (Ref)	2,593,093,946	0	0.0000000
		+ 30	2,593,094,781	835	0.0000322
		+ 40	2,593,095,470	1,524	0.0000588
Battery Endpoint	3.174	+ 50	2,593,094,247	301	0.0000116
		+ 20	2,593,093,444	-502	-0.0000194

Table 7-49. NR Band n41 Frequency Stability Data



Plot 7-162. NR Band n41 Frequency Stability Chart

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 131 of 132



8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset** **FCC ID: A3LSMS938JPN** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: A3LSMS938JPN	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-08.A3L	Test Dates: 09/03/2024 – 11/24/2024	EUT Type: Portable Handset	Page 132 of 132