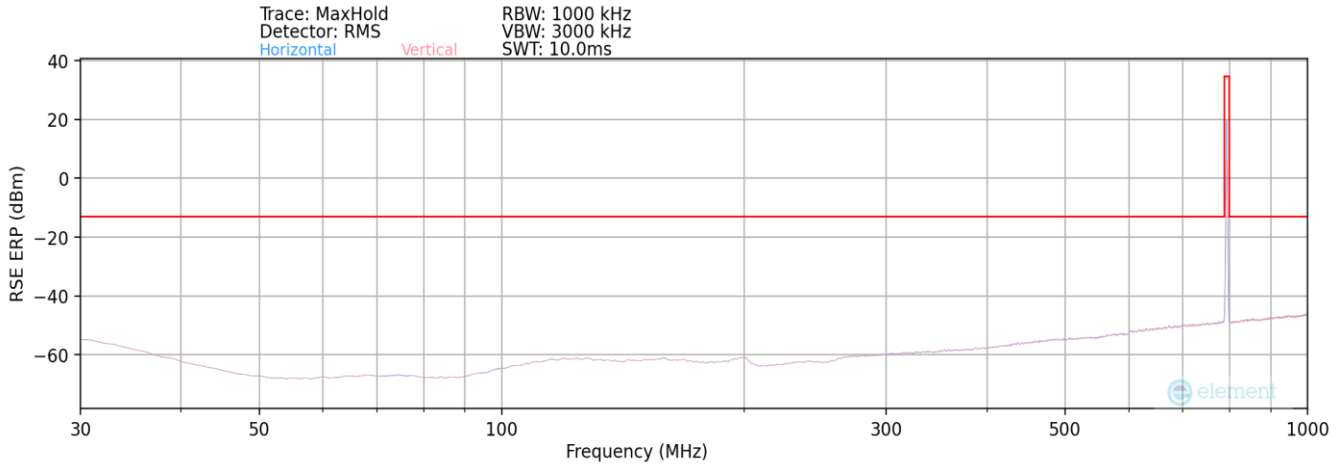
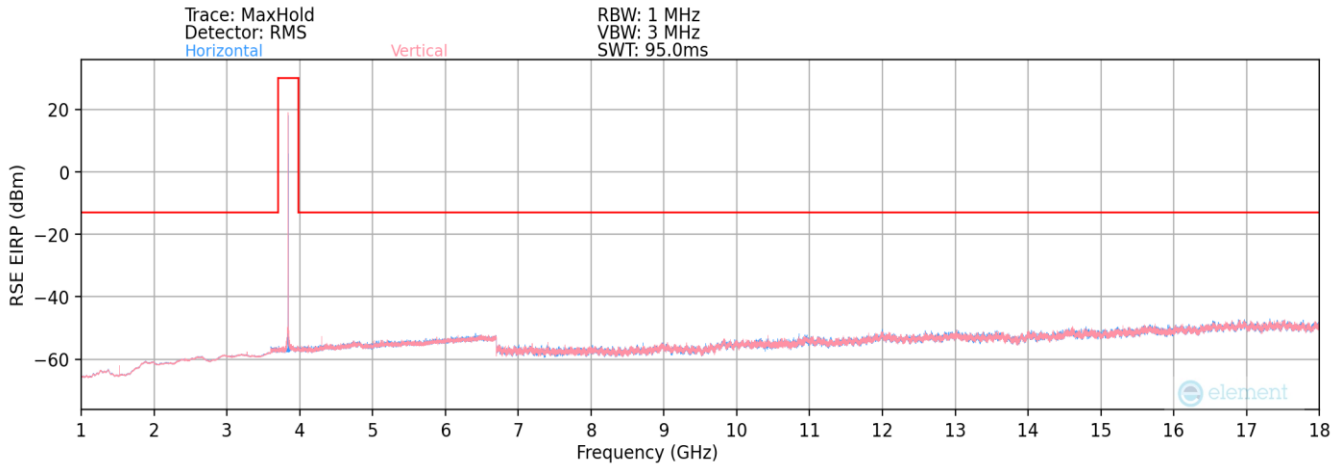


NR Band n77+ LTE Band 14



Plot 7-140. Radiated Spurious Plot Below 1GHz (NR Band n77+ LTE Band 14)



Plot 7-141. Radiated Spurious Plot Above 1GHz (NR Band n77+ LTE Band 14)

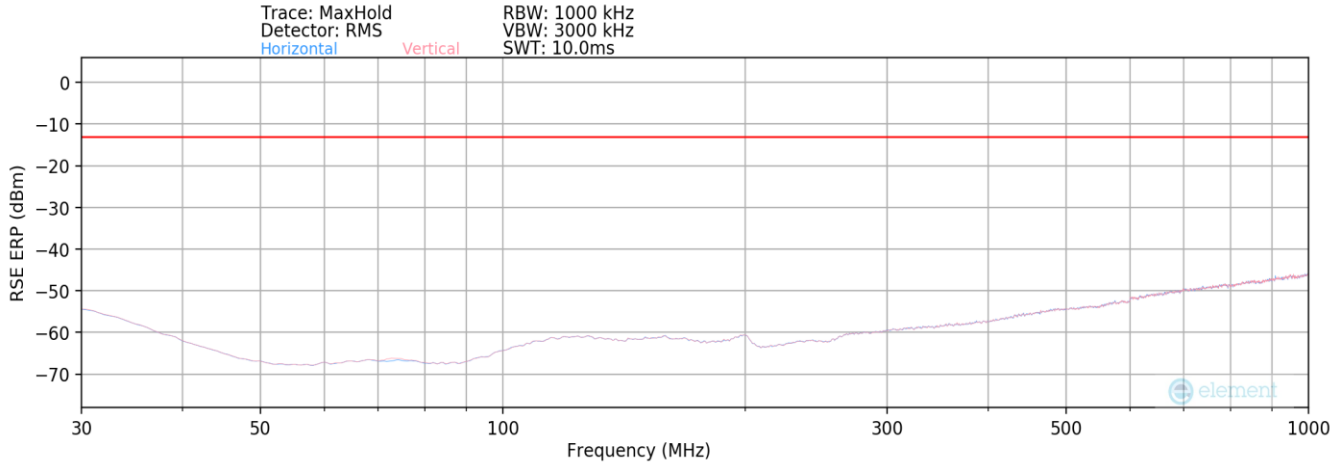
Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1/136
Mode:	EN-DC
Anchor Band:	14

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]
564.2	V	-	-	-83.56	26.65	50.09	-45.17	-13.00	-32.17
1604.0	V	-	-	-71.99	-4.20	30.81	-64.44	-13.00	-51.44
3201.5	V	-	-	-73.13	2.35	36.22	-59.04	-13.00	-46.04
4213.5	V	-	-	-68.56	2.97	41.41	-63.39	-13.00	-50.39

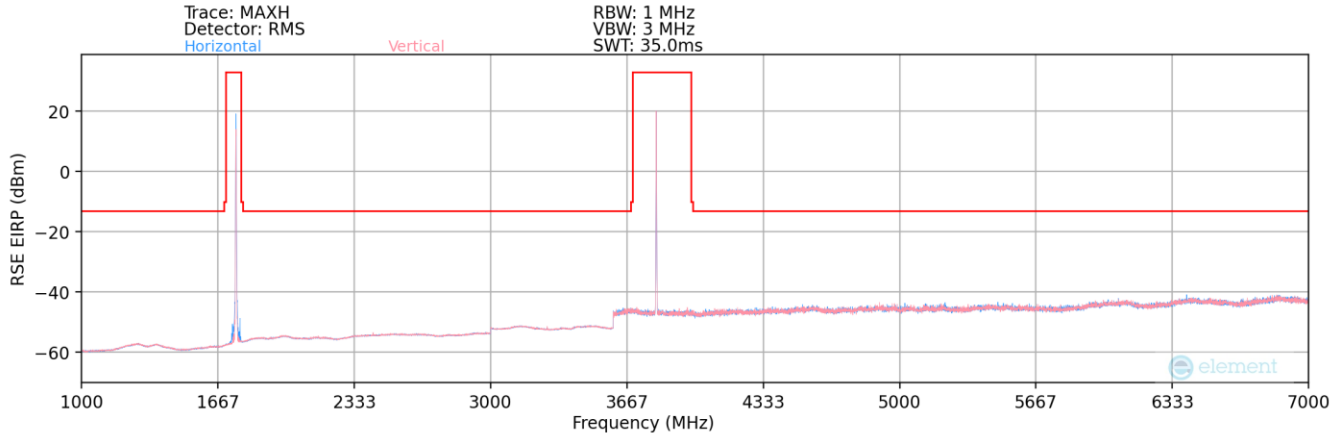
Table 7-25. Radiated Spurious Data (NR Band n77+ LTE Band 14)

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 103 of 110

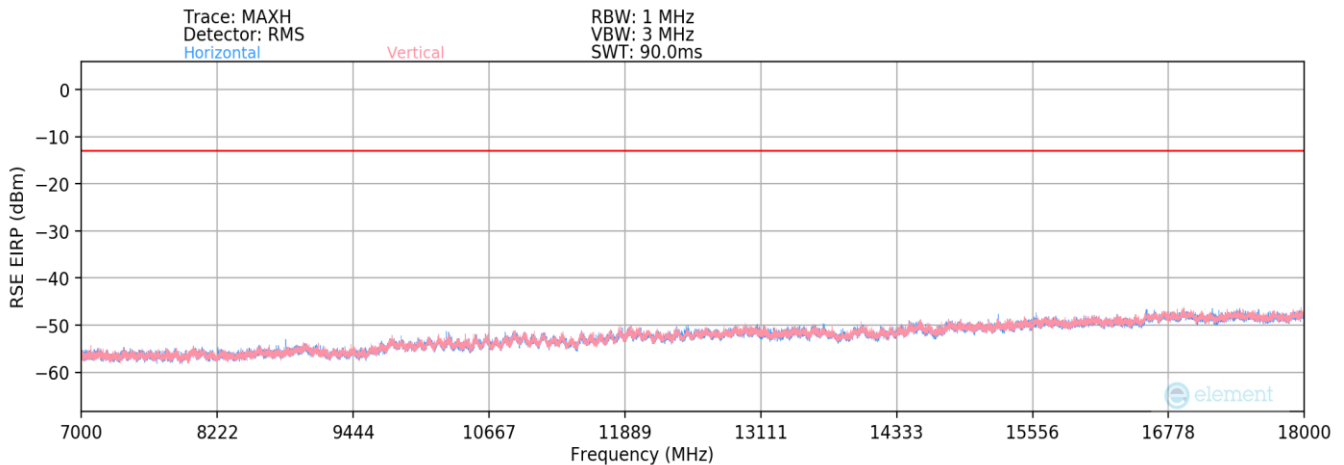
NR Band n77+ LTE Band 66



Plot 7-142. Radiated Spurious Plot Below 1GHz (NR Band n77+ LTE Band 66)



Plot 7-143. Radiated Spurious Plot Above 1GHz (NR Band n77+ LTE Band 66) - (1-7GHz)



Plot 7-144. Radiated Spurious Plot Above 1GHz (NR Band n77+ LTE Band 66) - (7-18GHz)

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 104 of 110



Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1/136
Mode:	EN-DC
Anchor Band:	66

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]
350.0	V	-	-	-84.72	22.10	44.38	-50.88	-13.00	-37.88
2445.0	V	-	-	-74.15	10.30	43.15	-52.10	-13.00	-39.10
4540.0	V	-	-	-76.55	4.29	34.74	-60.52	-13.00	-47.52
5935.0	V	-	-	-77.45	6.33	35.88	-68.92	-13.00	-55.92
6635.0	V	-	-	-76.73	6.60	36.87	-67.93	-13.00	-54.93
7680.5	V	196	356	-60.45	7.60	54.15	-50.65	-13.00	-37.65

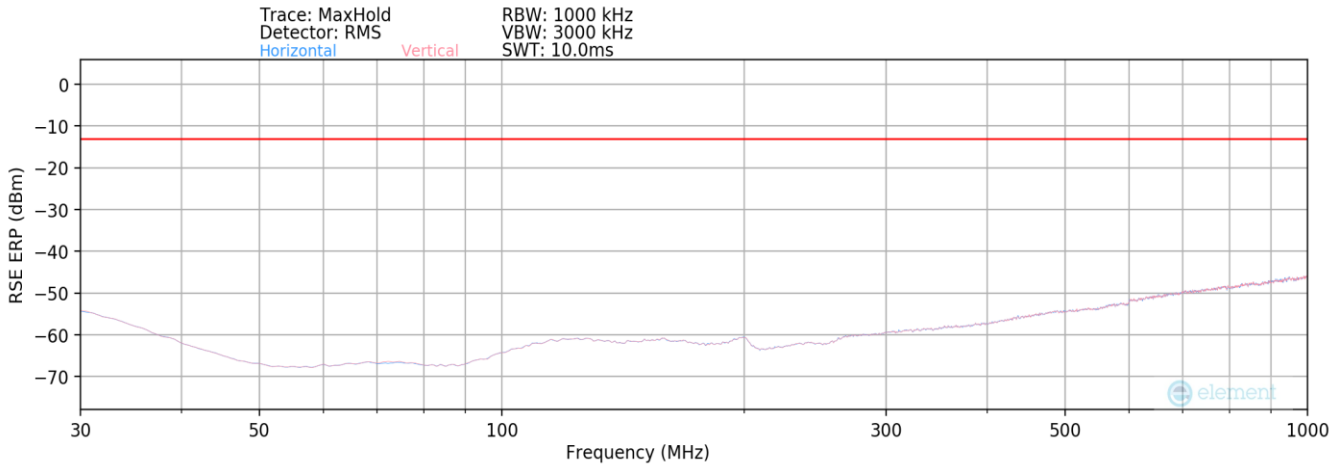
Table 7-26. Radiated Spurious Data (NR Band n77+ LTE Band 66)

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 105 of 110

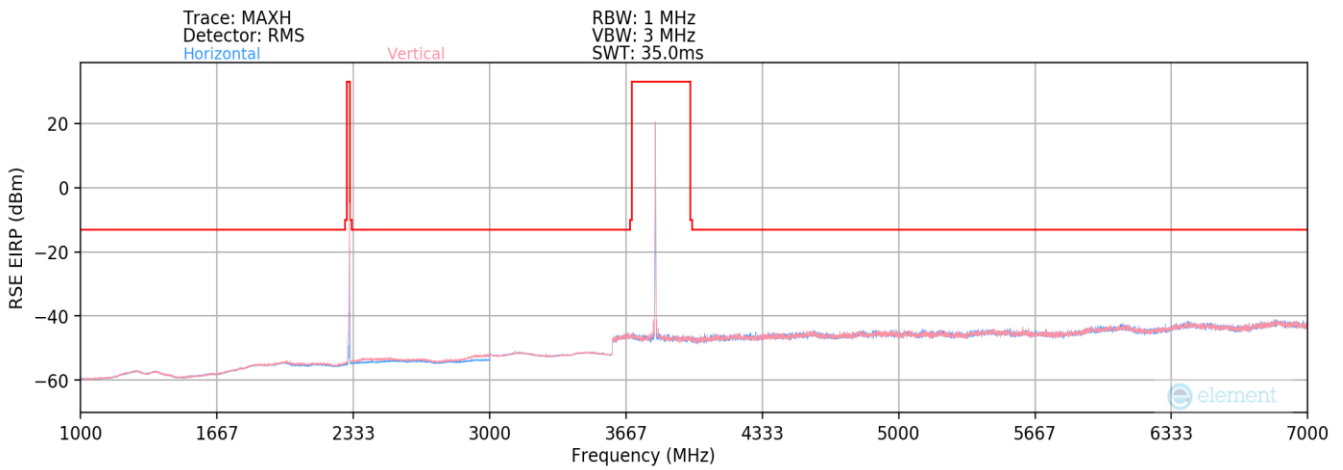
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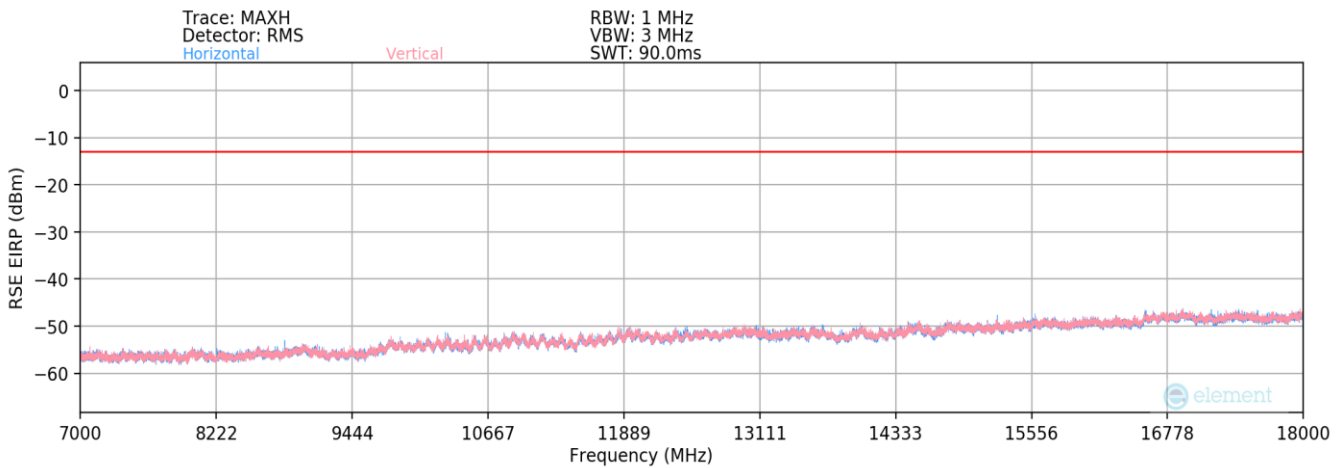
NR Band n77+ LTE Band 30



Plot 7-145. Radiated Spurious Plot Below 1GHz (NR Band n77+ LTE Band 30)



Plot 7-146. Radiated Spurious Plot Above 1GHz (NR Band n77+ LTE Band 30) - (1-7GHz)



Plot 7-147. Radiated Spurious Plot Above 1GHz (NR Band n77+ LTE Band 30) - (7-18GHz)

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 106 of 110



Bandwidth (MHz):	100
Frequency (MHz):	3840.0
RB / Offset:	1/136
Mode:	EN-DC
Anchor Band:	30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
780.0	V	-	-	-88.56	29.44	47.88	-47.38	-13.00	-34.38
2280.0	V	-	-	-71.84	9.26	44.42	-50.84	-13.00	-37.84
5340.0	V	-	-	-70.25	4.97	41.72	-53.54	-13.00	-40.54
6900.0	V	-	-	-68.23	7.77	46.54	-58.26	-13.00	-45.26
11955.5	V	-	-	-75.23	13.77	45.54	-59.26	-13.00	-46.26

Table 7-27. Radiated Spurious Data (NR Band n77+ LTE Band 30)

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 107 of 110

V3.0 1/6/2022

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7.9 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

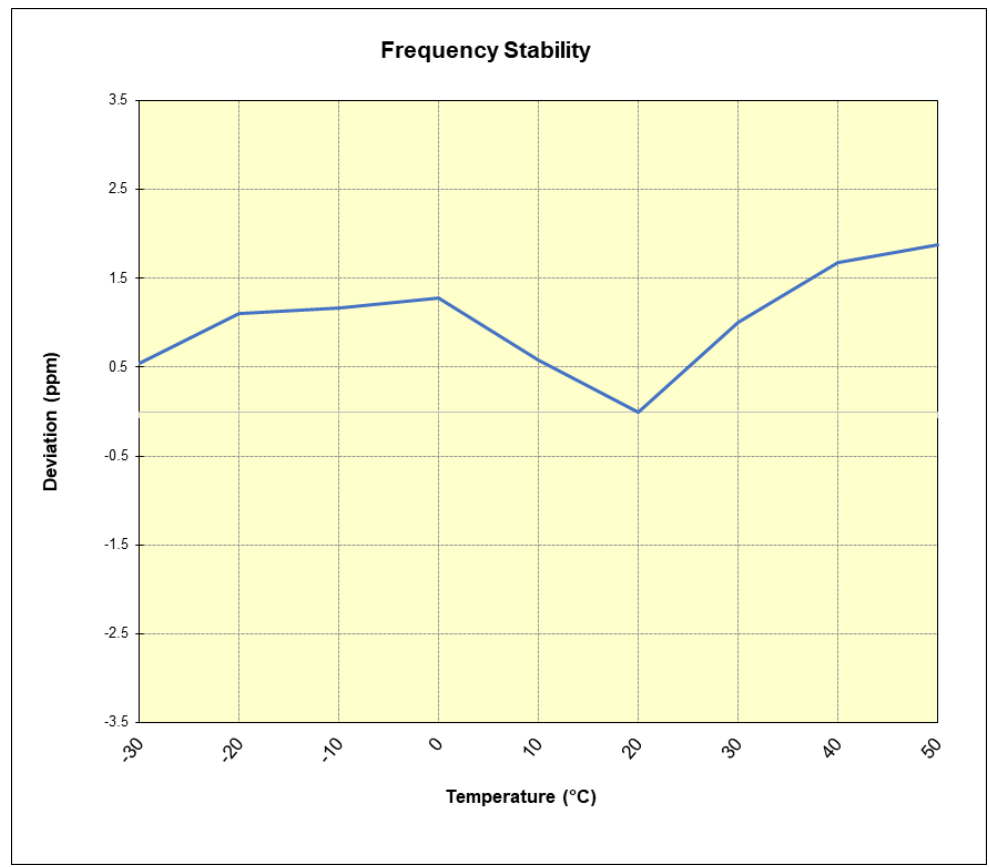
FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 108 of 110

V3.0 1/6/2022

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NR Band n77					
Operating Frequency (Hz):		3,840,000,000			
Ref. Voltage (VDC):		7.60			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	7.60	- 30	3,750,075,044	2,023	0.0000539
		- 20	3,750,077,186	4,164	0.0001110
		- 10	3,750,077,400	4,379	0.0001168
		0	3,750,077,832	4,811	0.0001283
		+ 10	3,750,075,203	2,181	0.0000582
		+ 20 (Ref)	3,750,073,021	0	0.0000000
		+ 30	3,750,076,790	3,769	0.0001005
		+ 40	3,750,079,332	6,310	0.0001683
Battery Endpoint	7.20	+ 20	3,750,078,564	5,543	0.0001478

Table 7-28. NR Band n77 Frequency Stability Data



Plot 7-148. NR Band n77 Frequency Stability Chart

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 109 of 110

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Microsoft Corporation Portable Computing Device FCC ID: C3K1997** complies with all the requirements of Part 27 of the FCC rules.

FCC ID: C3K1997	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204040049-08-R1.C3K	Test Dates: 03/30/2022- 06/24/2022	EUT Type: Portable Computing Device	Page 110 of 110

V3.0 1/6/2022