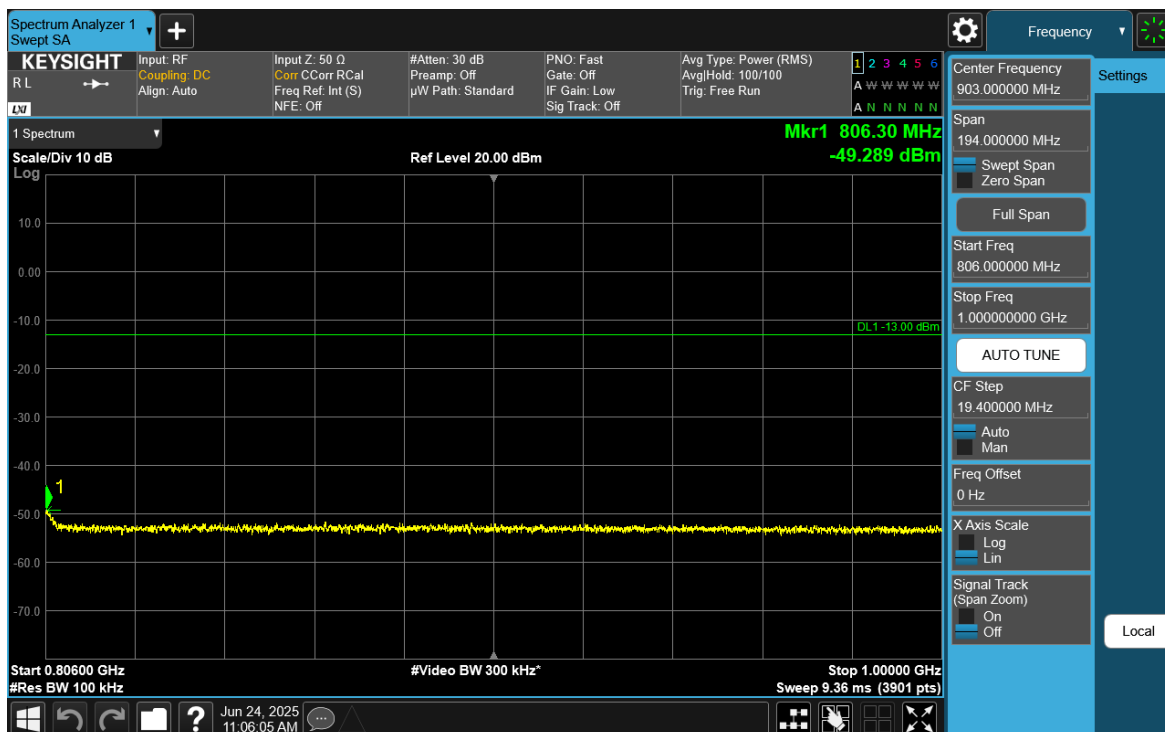



Plot 7-62. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)

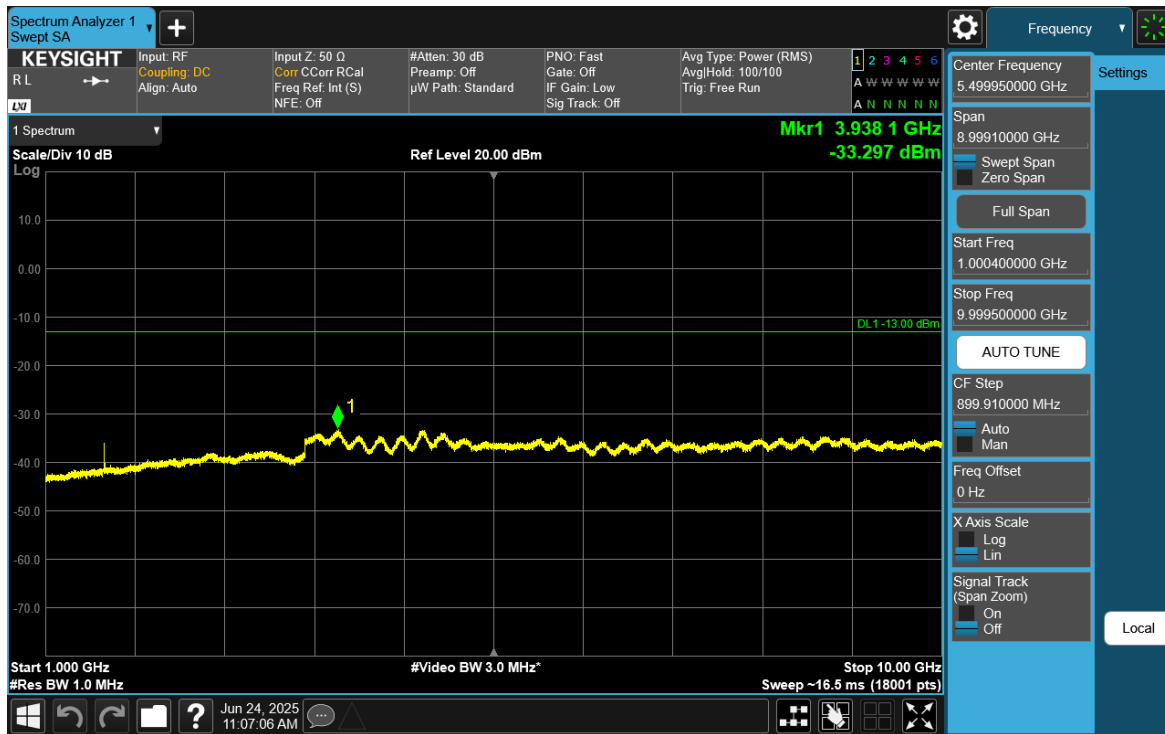


Plot 7-63. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)


FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 50 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-64. Conducted Spurious Plot (NR Band n14 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 12 - High Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 51 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §90.691(a) §90.543(e)

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.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
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.

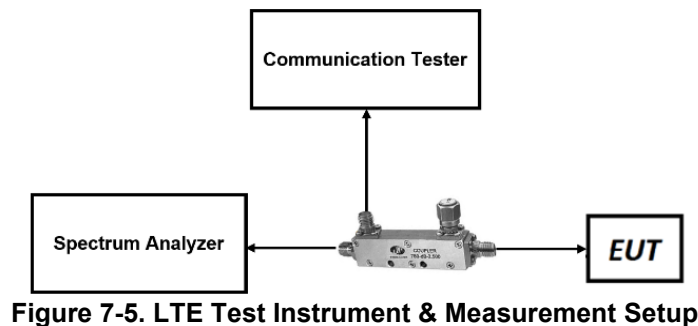


Figure 7-5. LTE Test Instrument & Measurement Setup

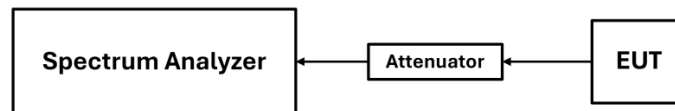




Figure 7-6. FR1 Instrument & Measurement Setup

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 52 of 96

V2.2 09/07/2023

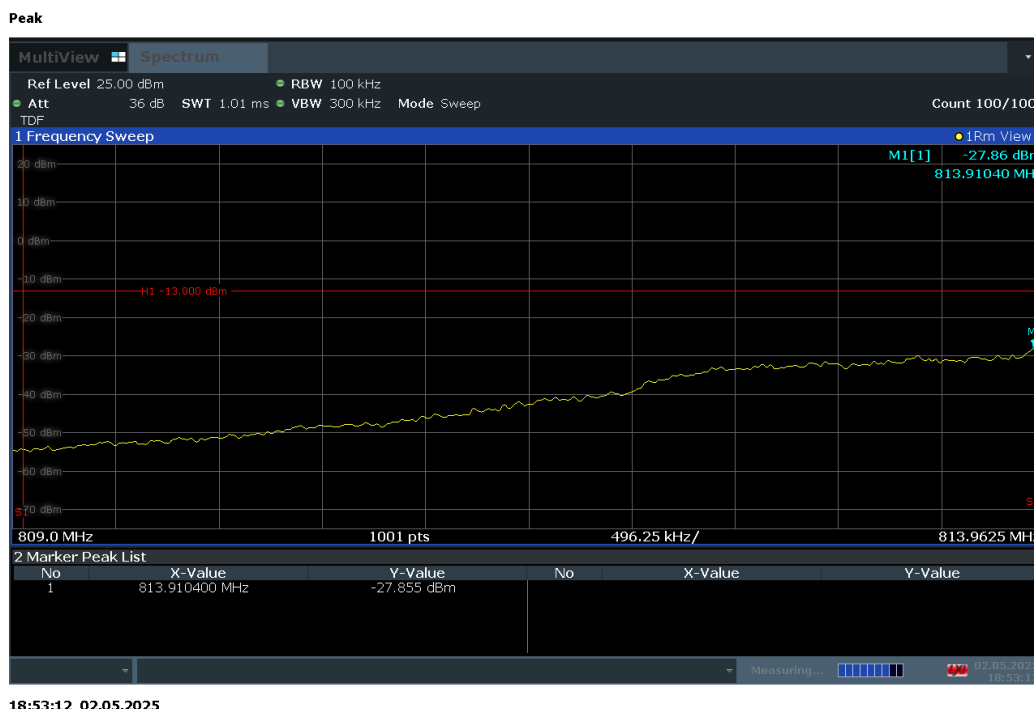
Test Notes

1. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center.
2. For LTE Band 14 operation under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
3. Additionally, for LTE Band 14 operation, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10\log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

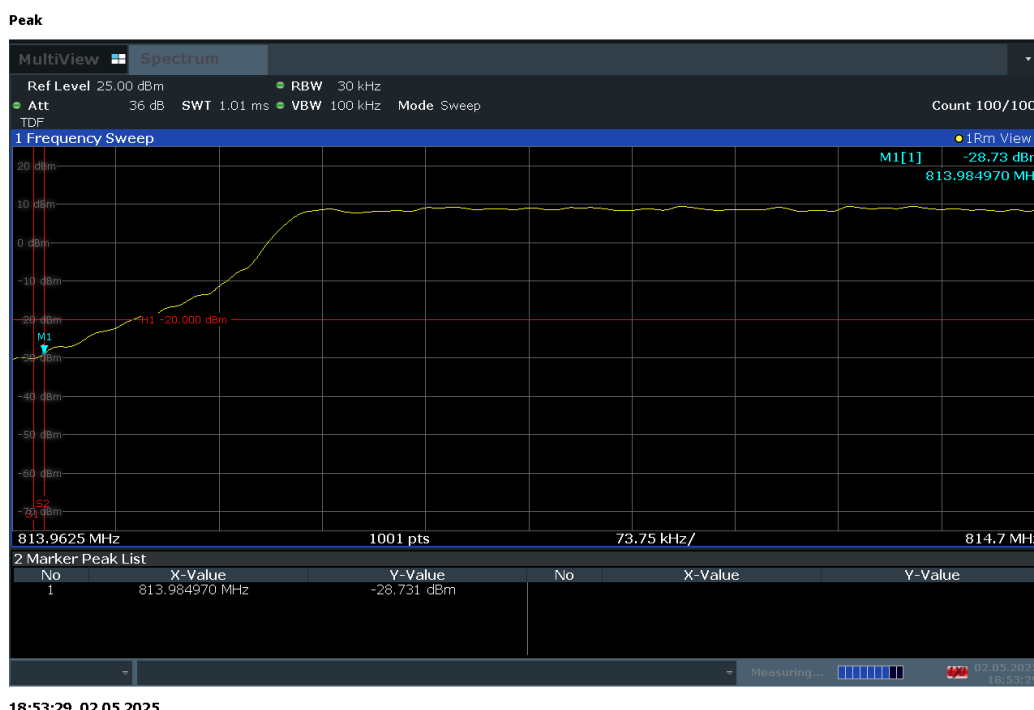
FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 53 of 96

V2.2 09/07/2023


LTE Band 26



Plot 7-65. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Lower Channel)



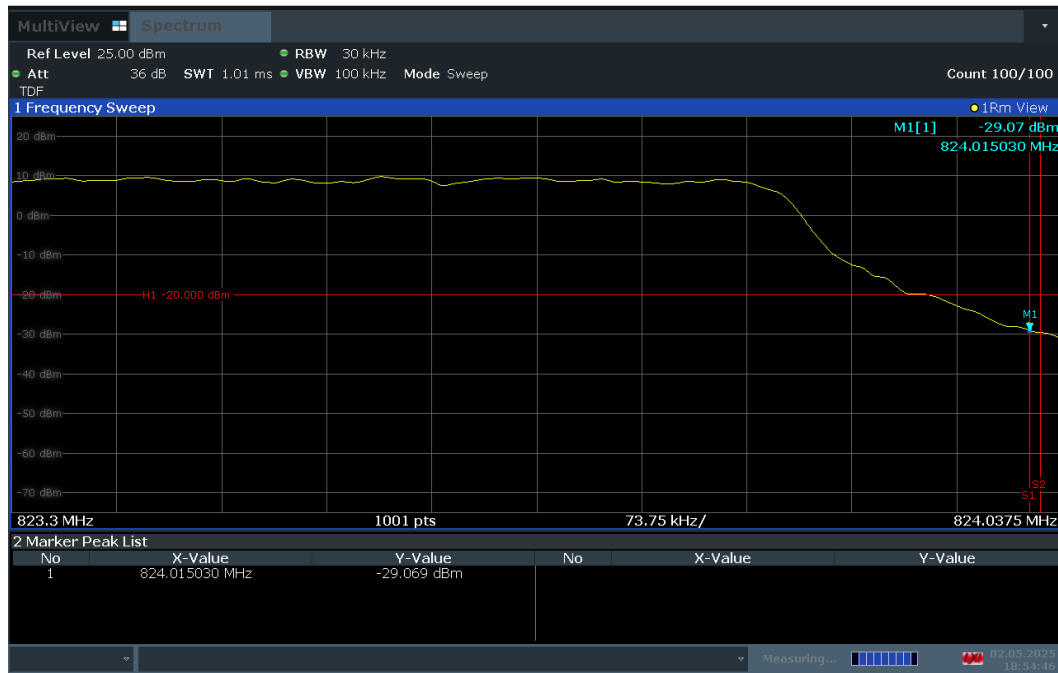
Plot 7-66. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Lower Channel)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 54 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

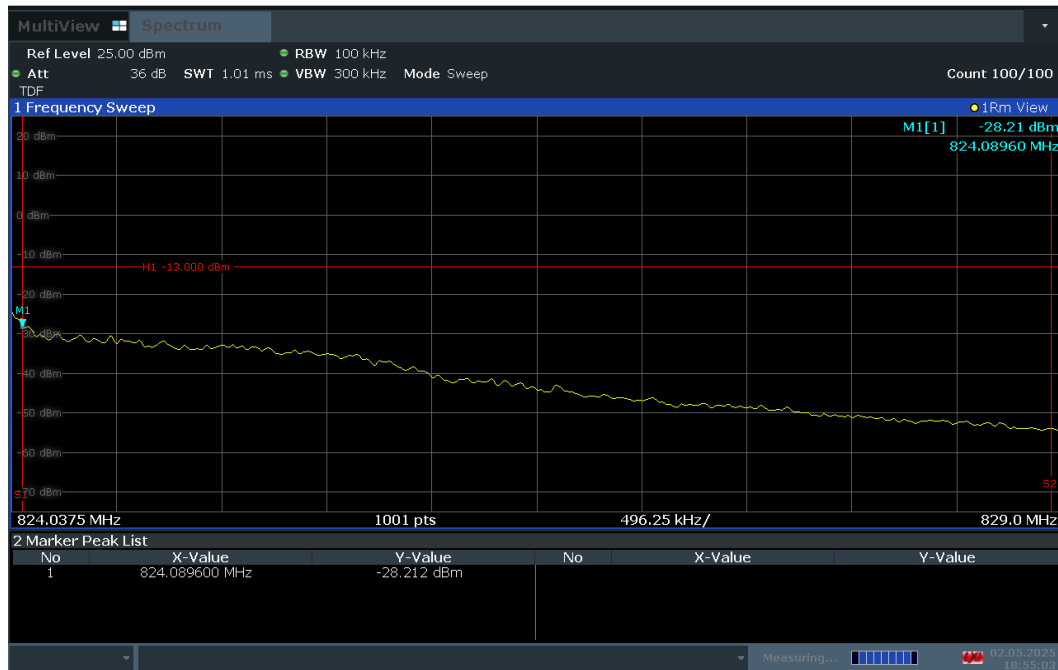
Peak



18:54:47 02.05.2025


Plot 7-67. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Upper Channel)

Peak



18:55:04 02.05.2025

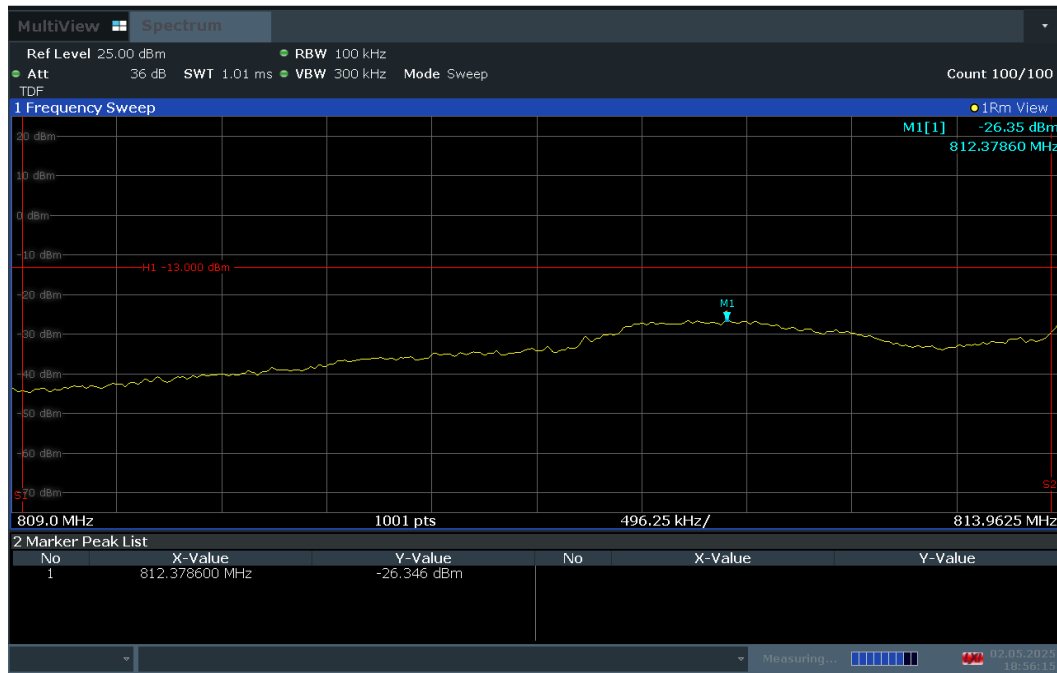
Plot 7-68. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Upper Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 55 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

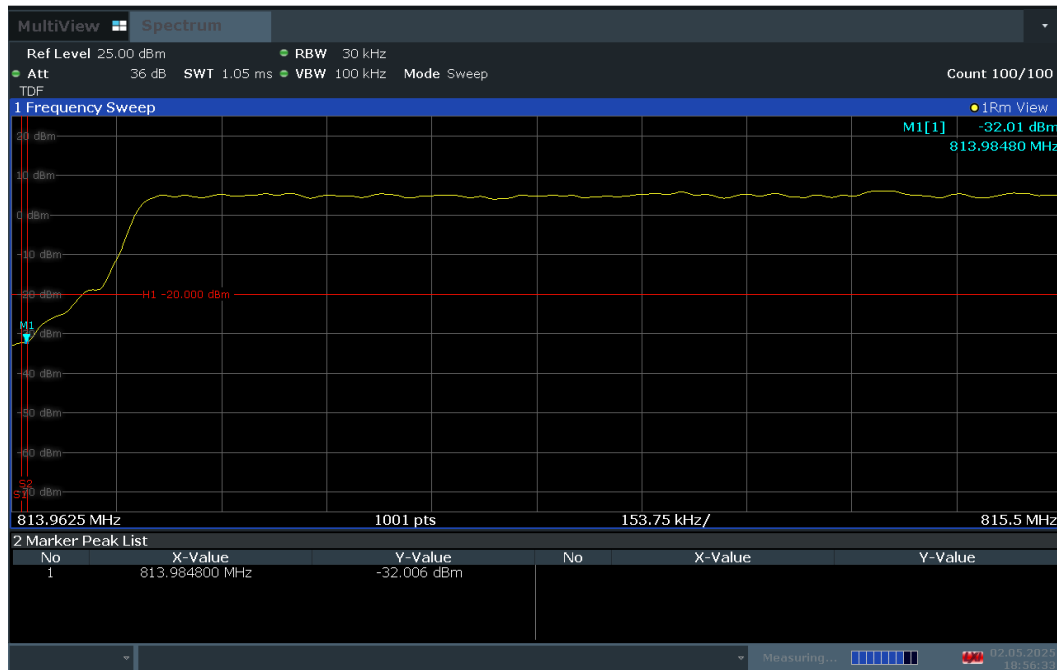
Peak



18:56:16 02.05.2025


Plot 7-69. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Lower Channel)

Peak



18:56:33 02.05.2025

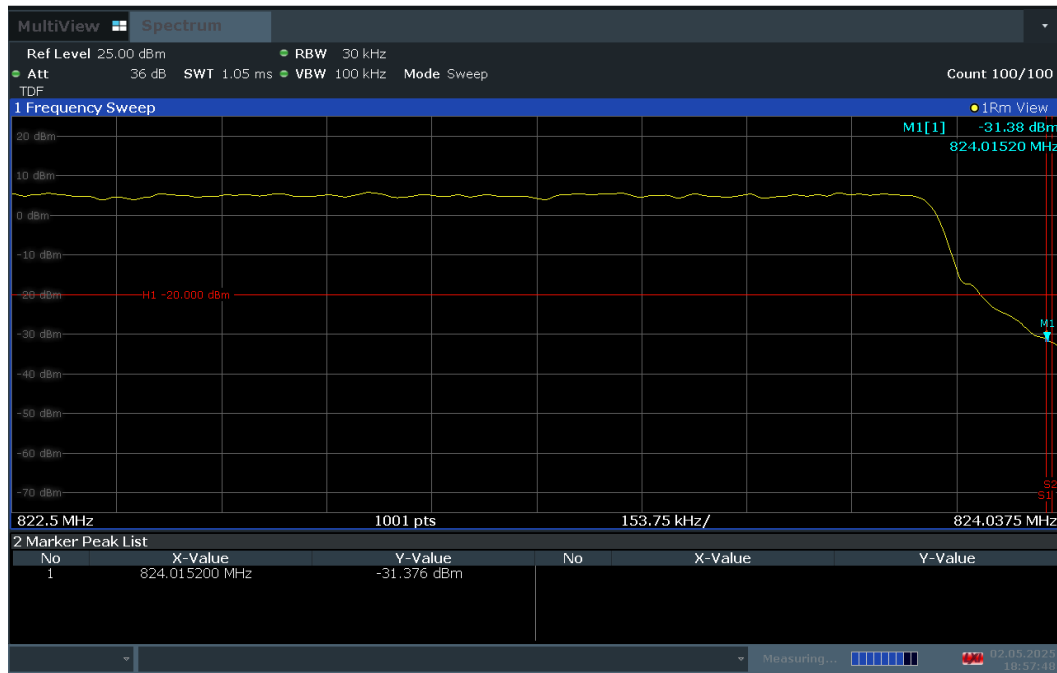
Plot 7-70. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Lower Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 56 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

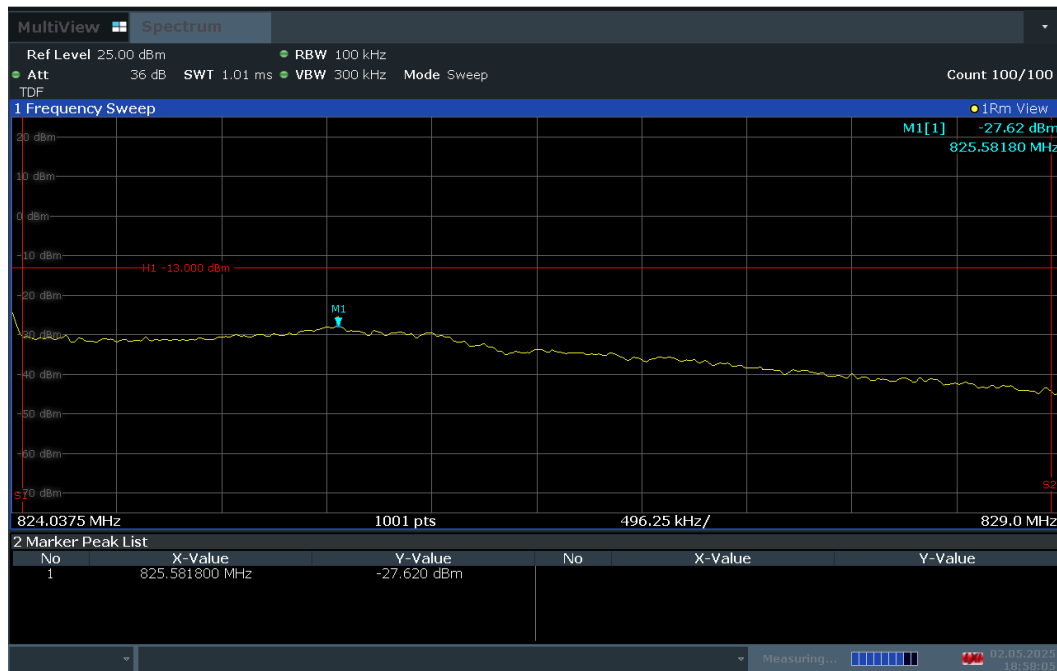
Peak



18:57:49 02.05.2025


Plot 7-71. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Upper Channel)

Peak



18:58:06 02.05.2025

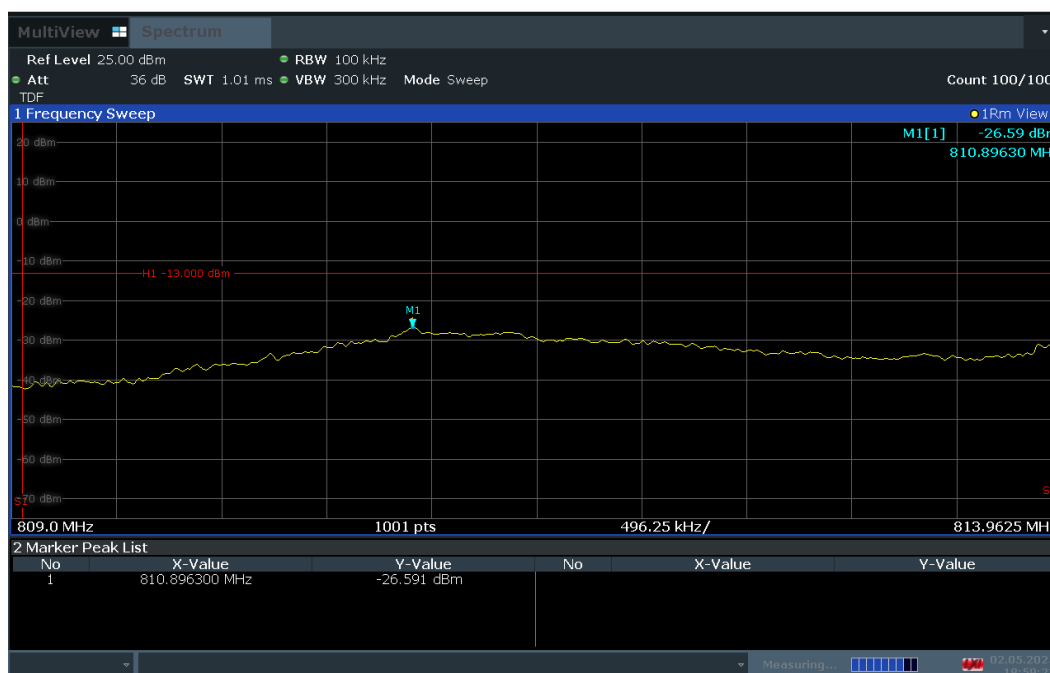
Plot 7-72. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Upper Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 57 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

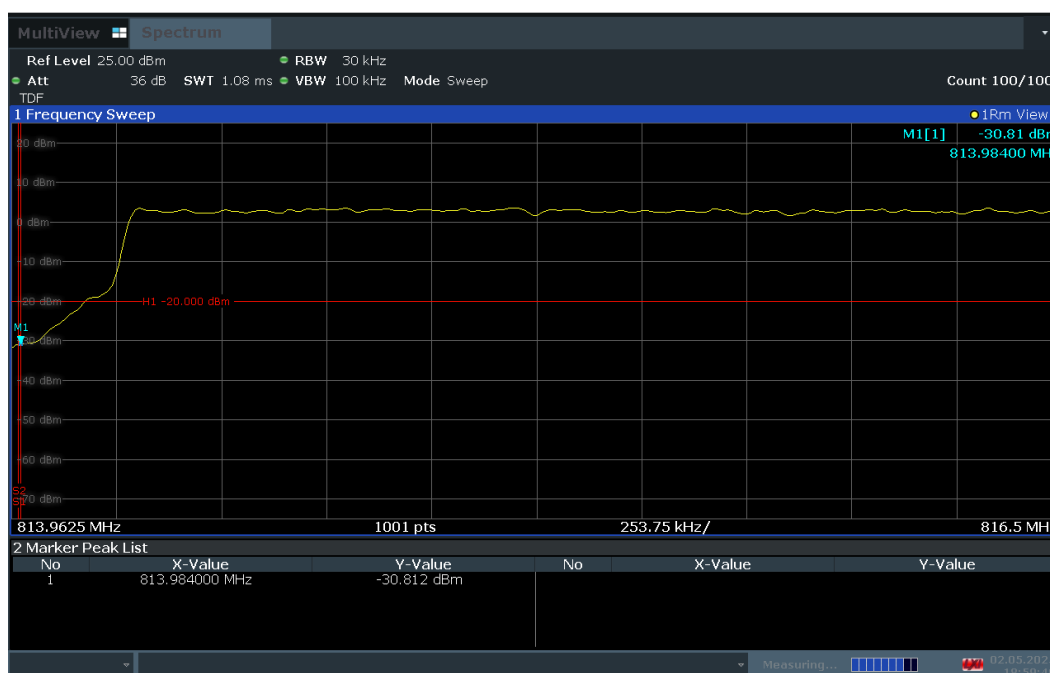
Peak



18:59:23 02.05.2025


Plot 7-73. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Lower Channel)

Peak



18:59:40 02.05.2025

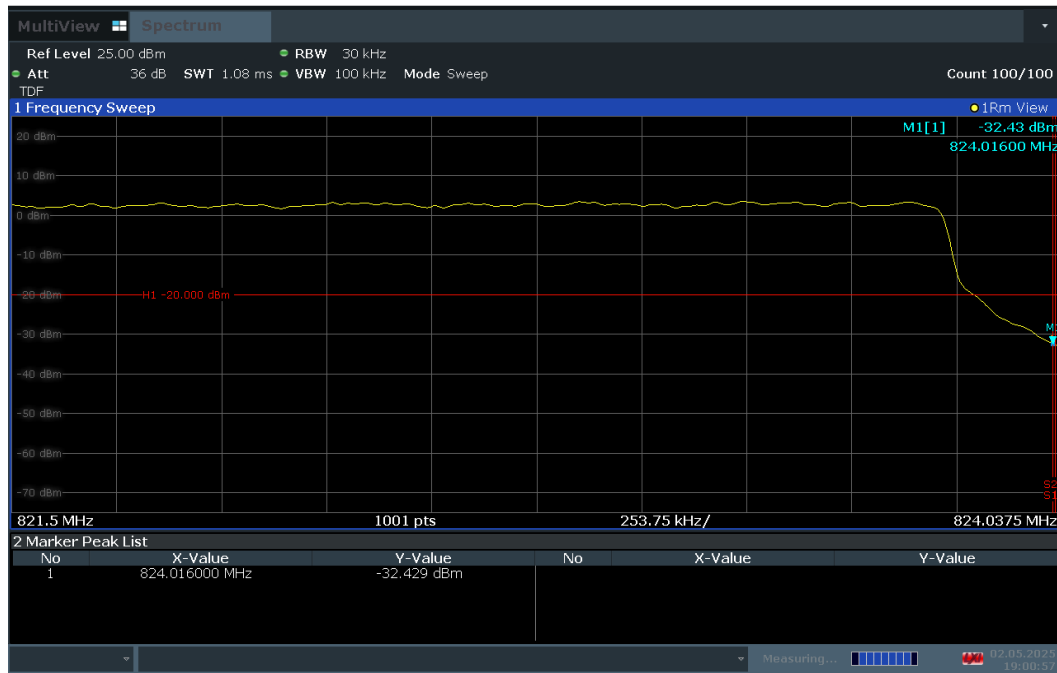
Plot 7-74. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Lower Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 58 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

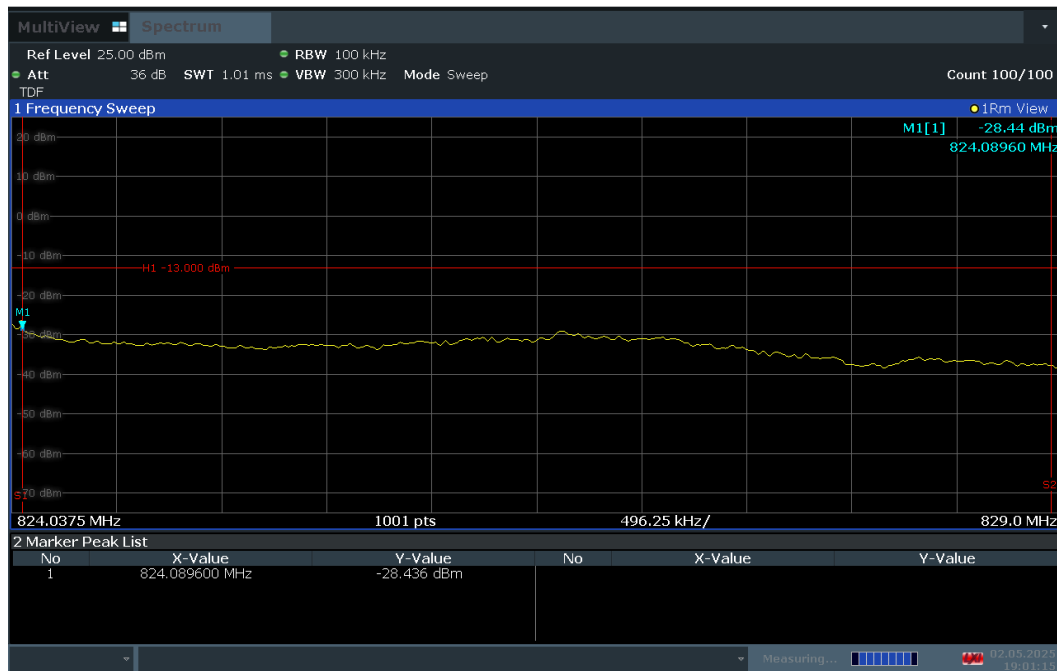
Peak



19:00:58 02.05.2025


Plot 7-75. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Upper Channel)

Peak



19:01:15 02.05.2025

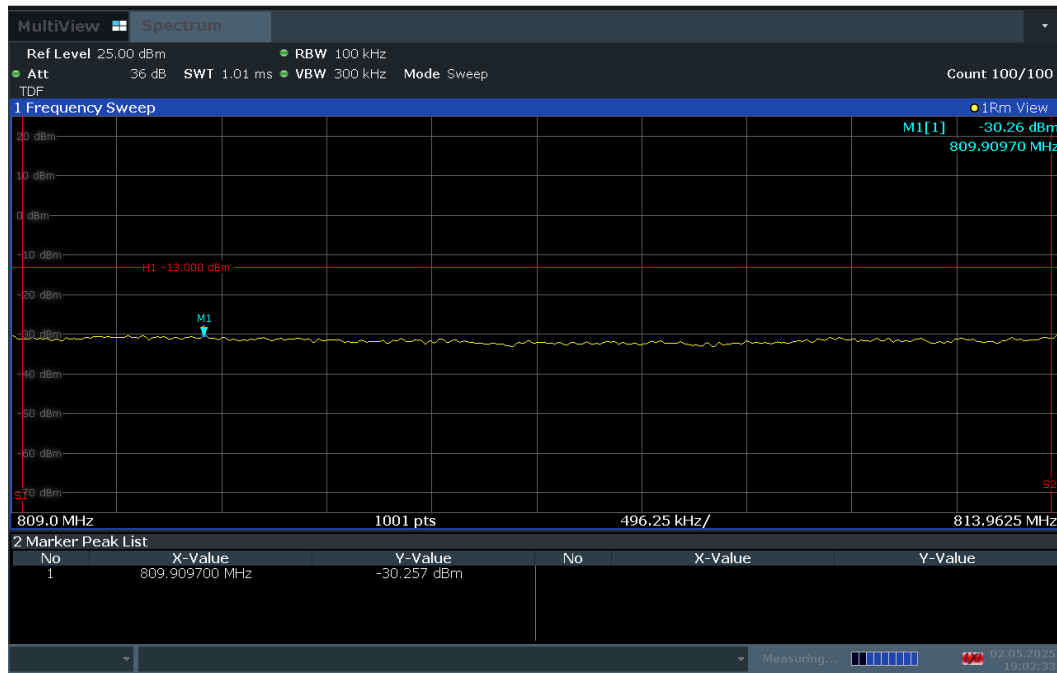
Plot 7-76. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Upper Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 59 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

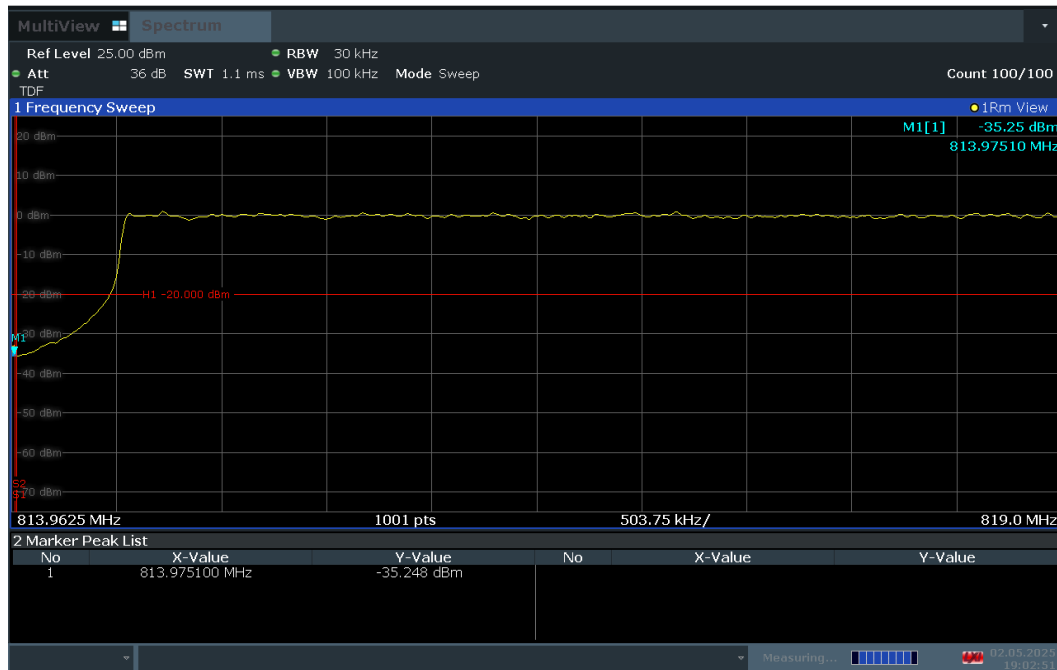
Peak



19:02:33 02.05.2025


Plot 7-77. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Lower Channel)

Peak



19:02:51 02.05.2025

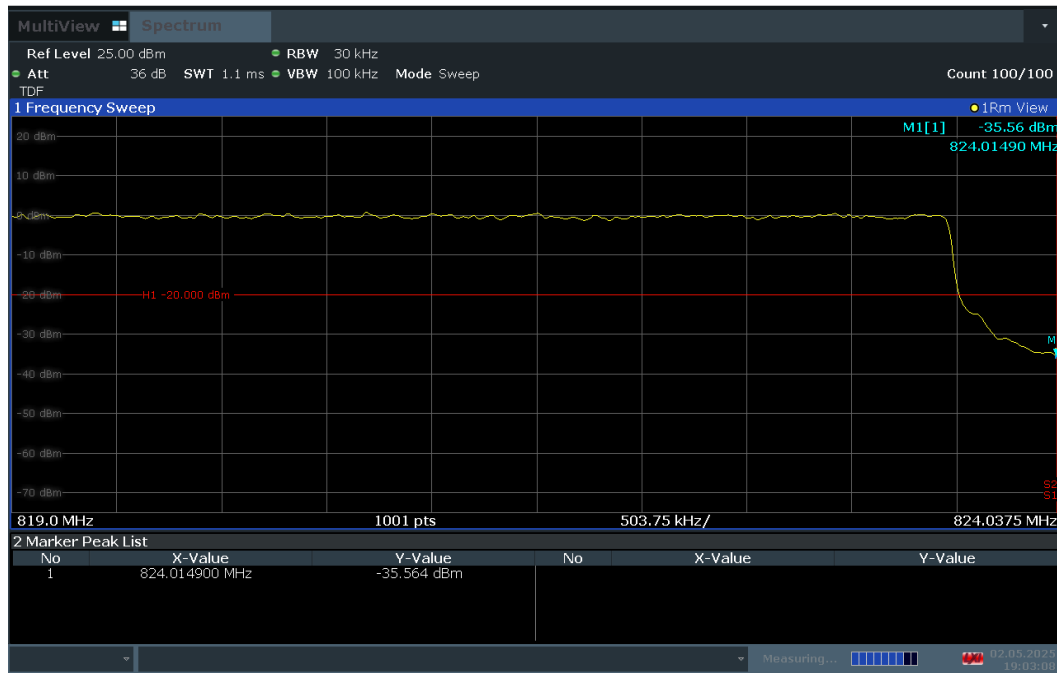
Plot 7-78. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Lower Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 60 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

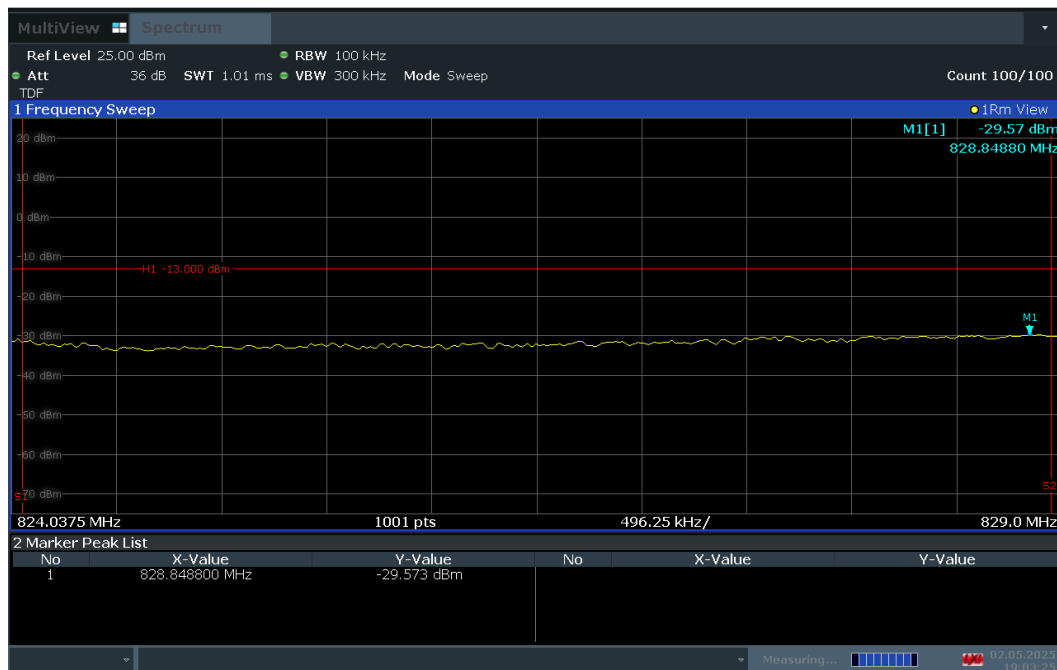
Peak



19:03:08 02.05.2025


Plot 7-79. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Upper Channel)

Peak



19:03:26 02.05.2025

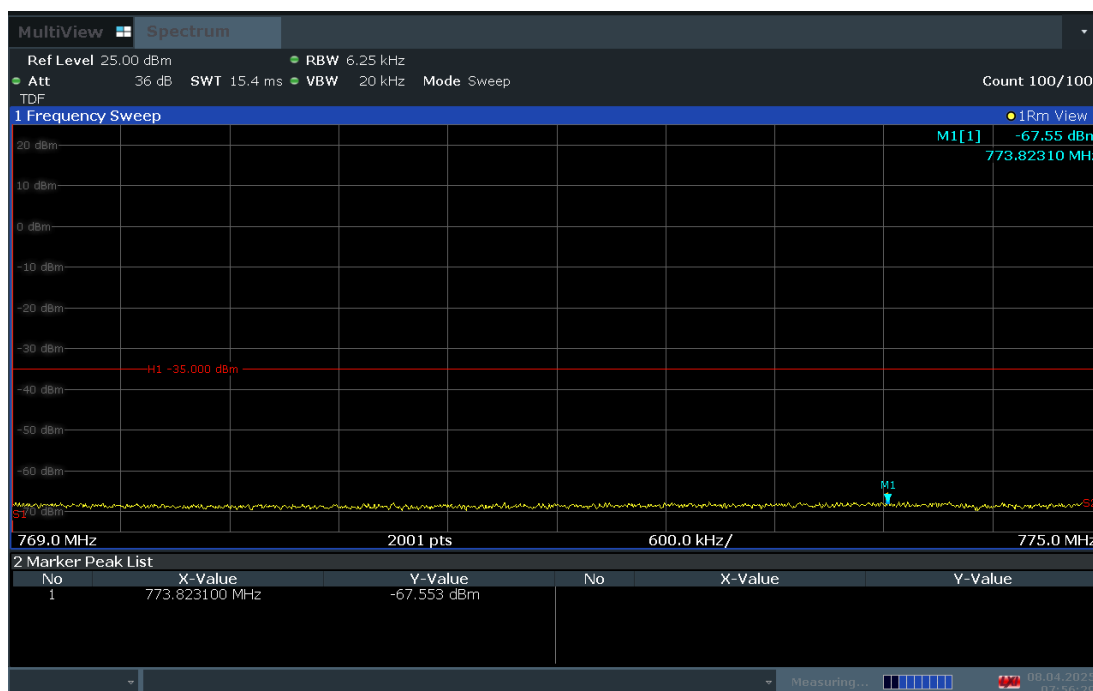
Plot 7-80. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Upper Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 61 of 96

V2.2 09/07/2023

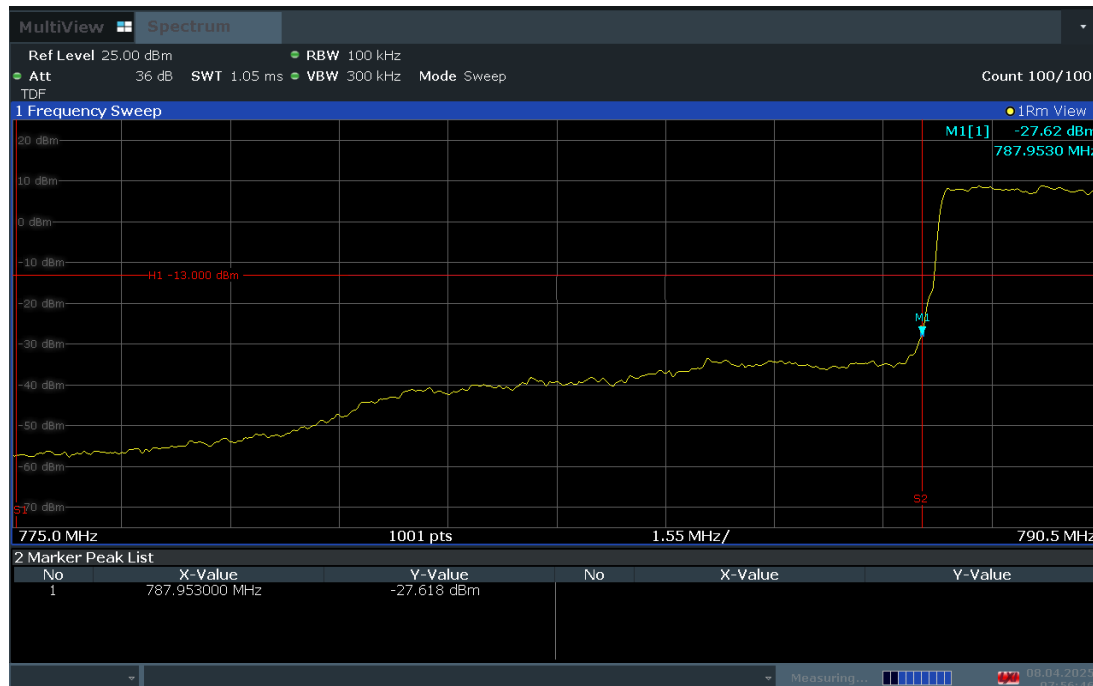
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

LTE Band 14




07:56:29 08.04.2025

Plot 7-81. Lower Emission Mask Plot (LTE Band 14, 5MHz QPSK - RB Size 25)



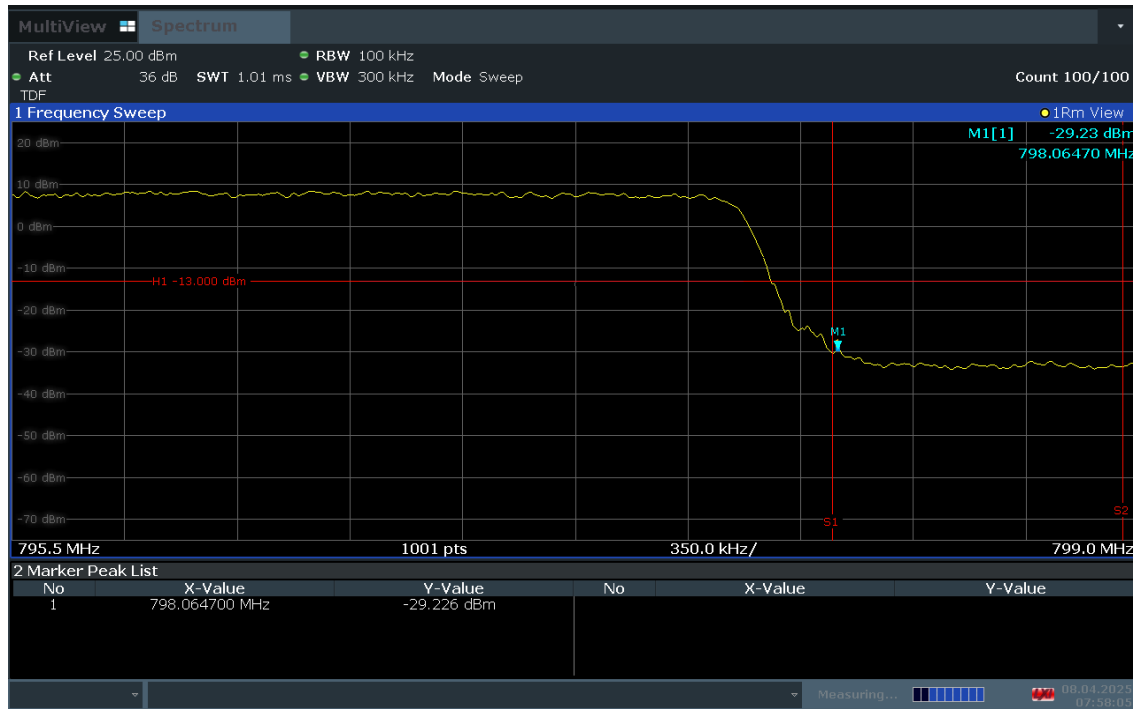
07:56:46 08.04.2025

Plot 7-82. Lower Band Edge Plot (LTE Band 14, 5MHz QPSK - RB Size 25)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 62 of 96

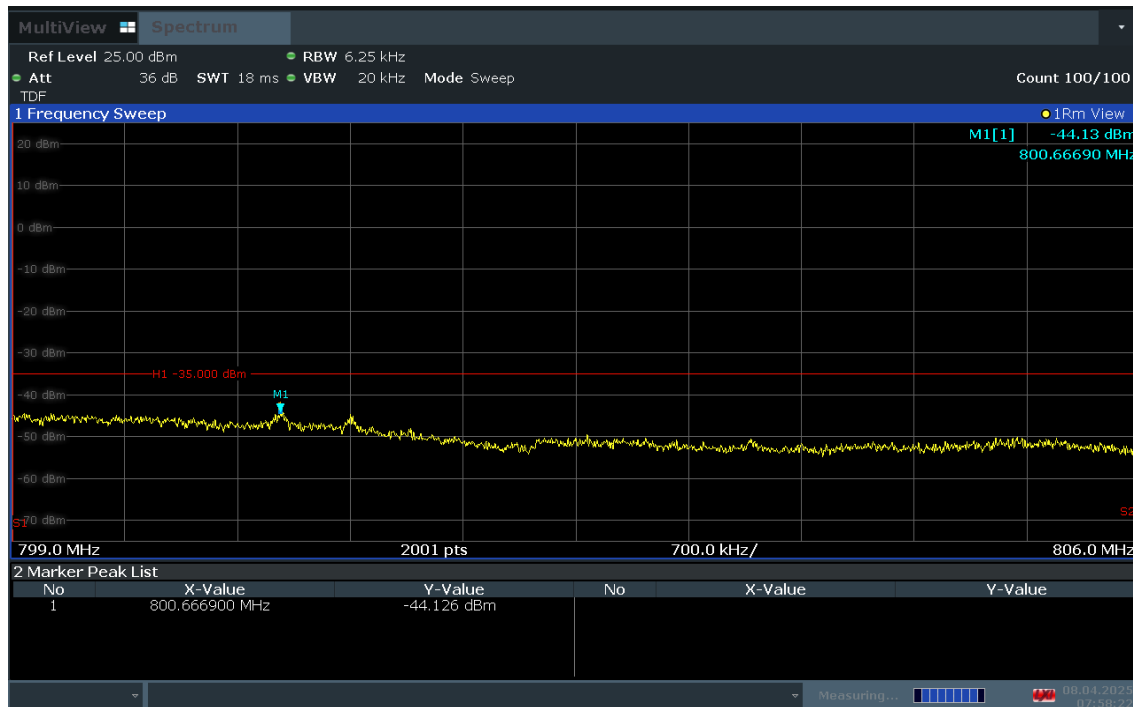
V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




07:58:05 08.04.2025

Plot 7-83. Upper Band Edge Plot (LTE Band 14, 5MHz QPSK - RB Size 25)



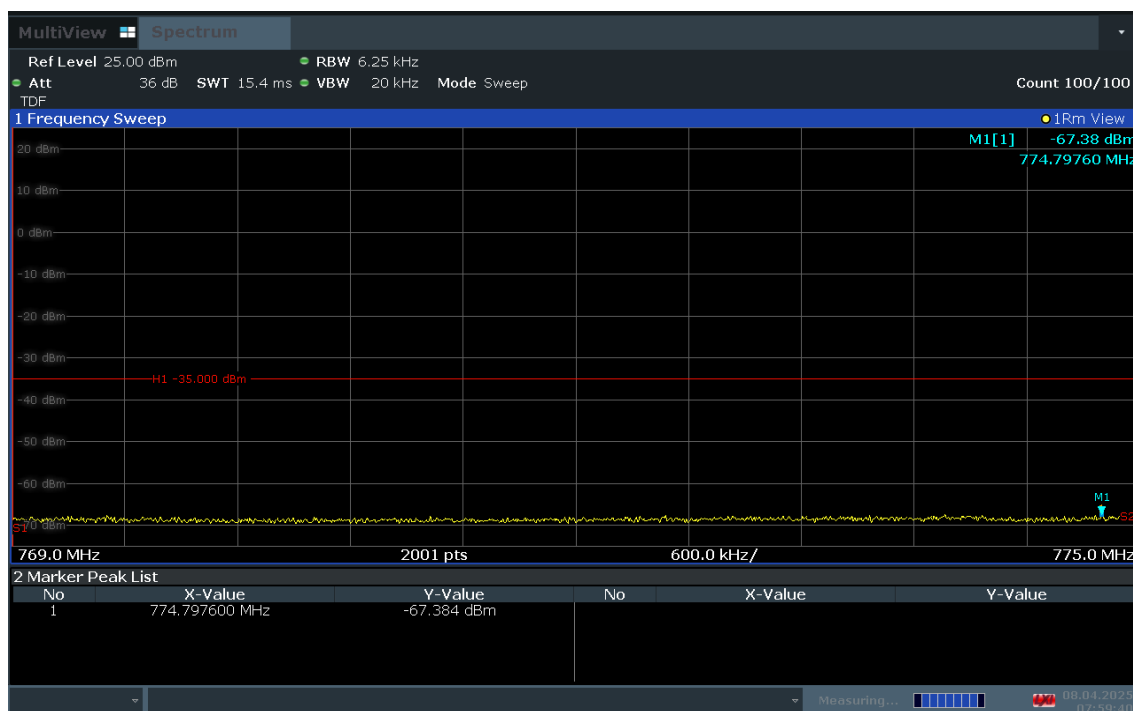
07:58:23 08.04.2025

Plot 7-84. Upper Emission Mask Plot (LTE Band 14, 5MHz QPSK - RB Size 25)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 63 of 96

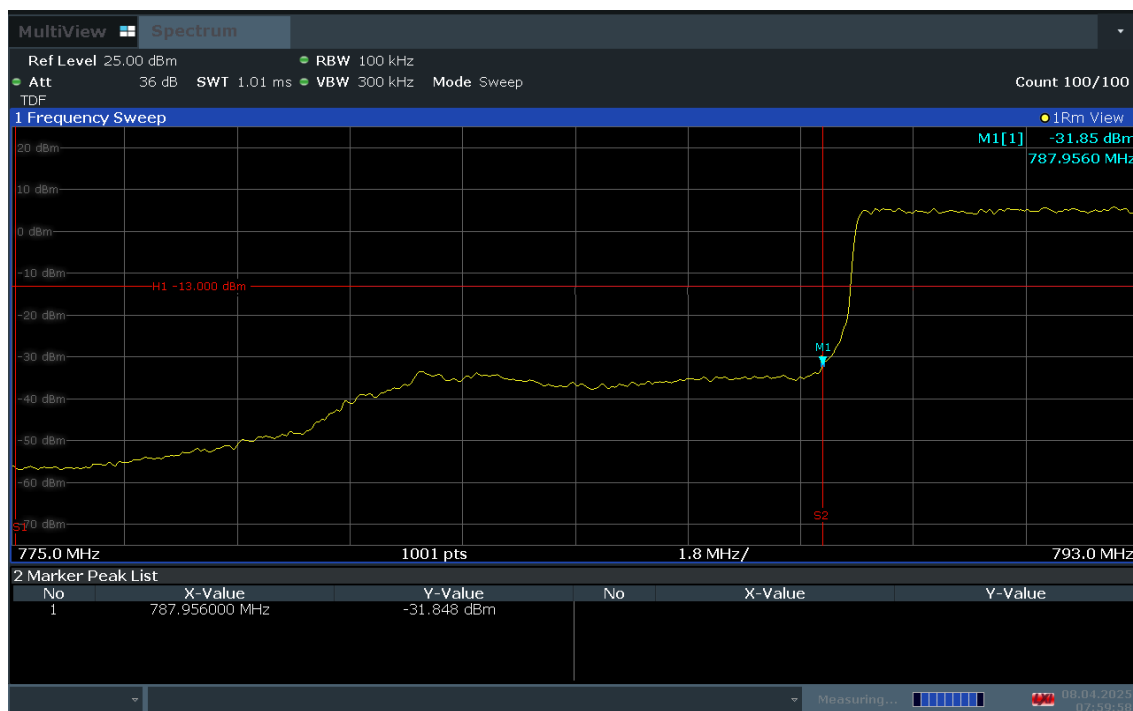
V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




07:59:41 08.04.2025

Plot 7-85. Lower Emission Mask Plot (LTE Band 14, 10MHz QPSK - RB Size 50)



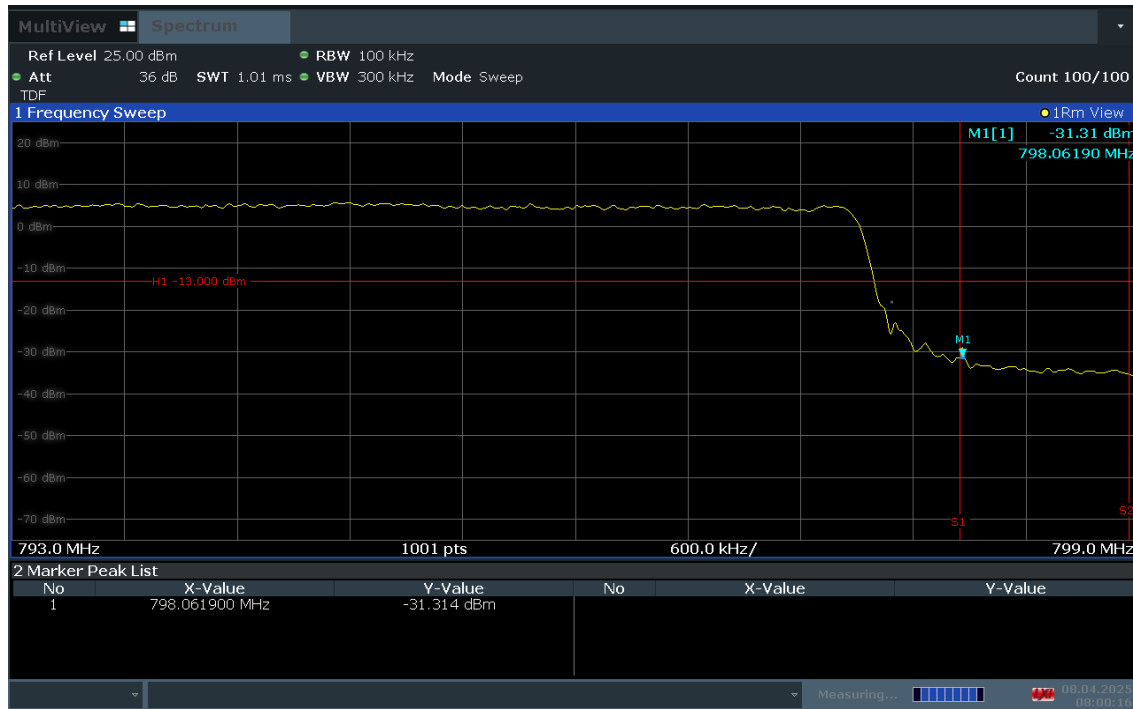
07:59:59 08.04.2025

Plot 7-86. Lower band Edge Plot (LTE Band 14, 10MHz QPSK - RB Size 50)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 64 of 96

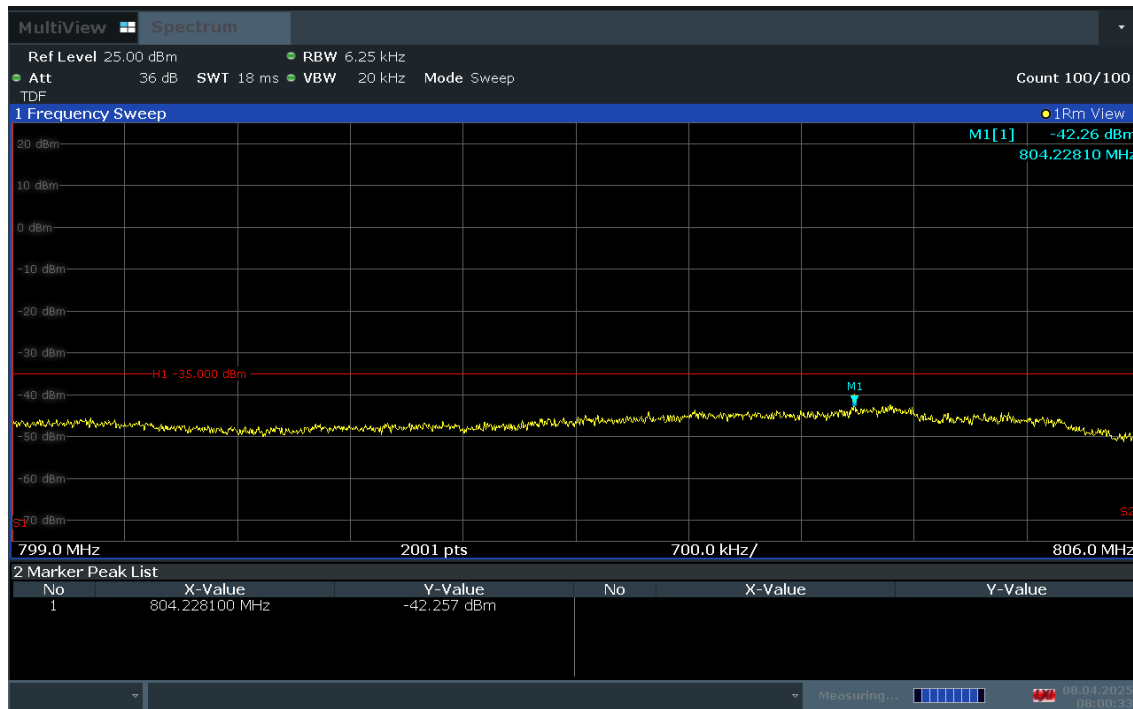
V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




08:00:16 08.04.2025

Plot 7-87. Upper Band Edge Plot (LTE Band 14, 10MHz QPSK - RB Size 50)



08:00:34 08.04.2025

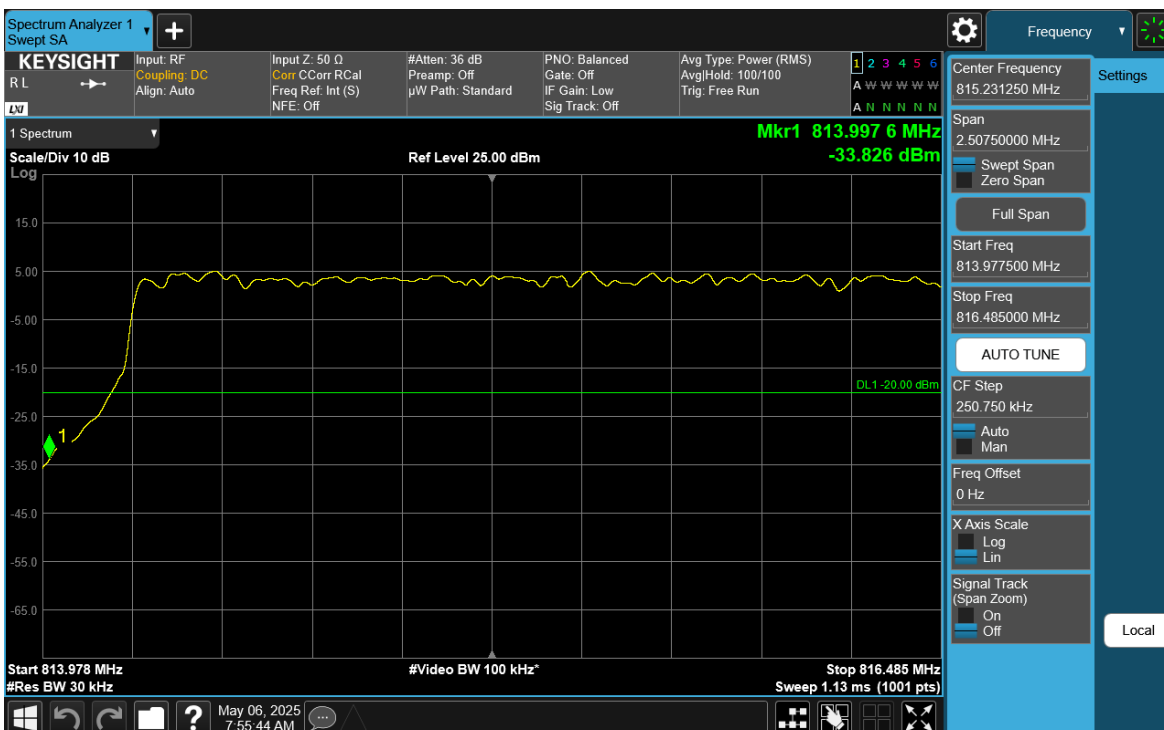
Plot 7-88. Upper Emission Mask Plot (LTE Band 14, 10MHz QPSK - RB Size 50)


FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 65 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

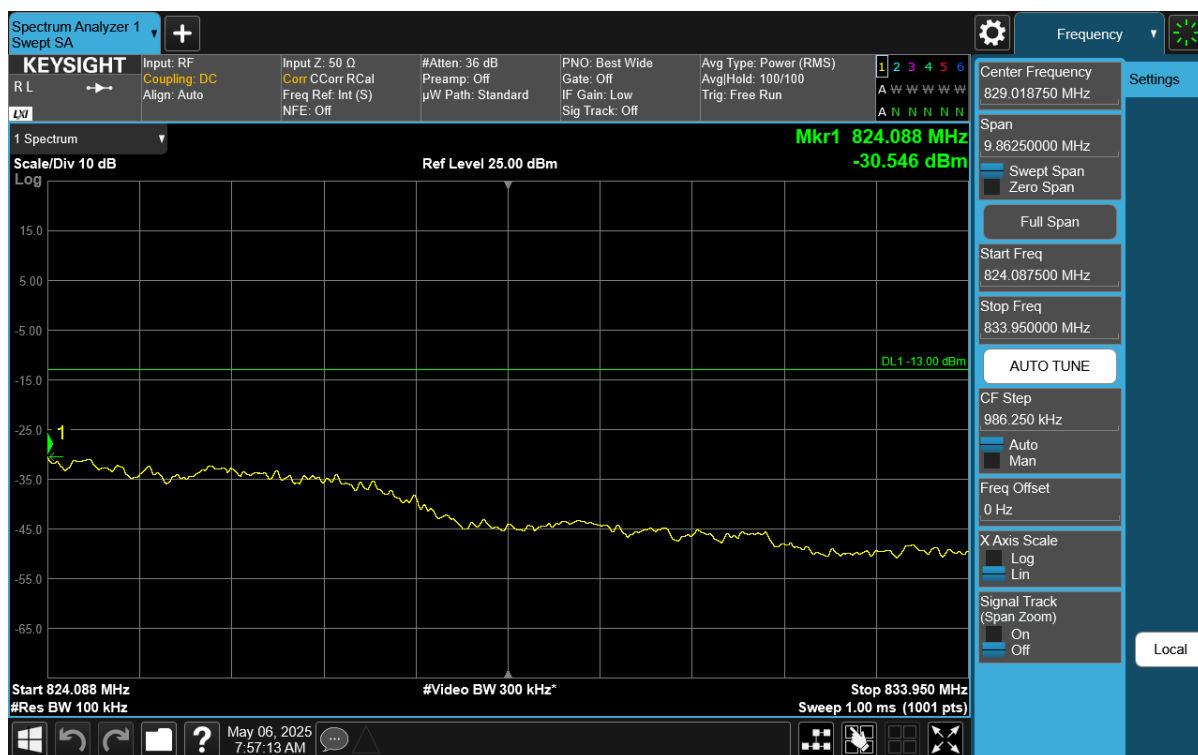
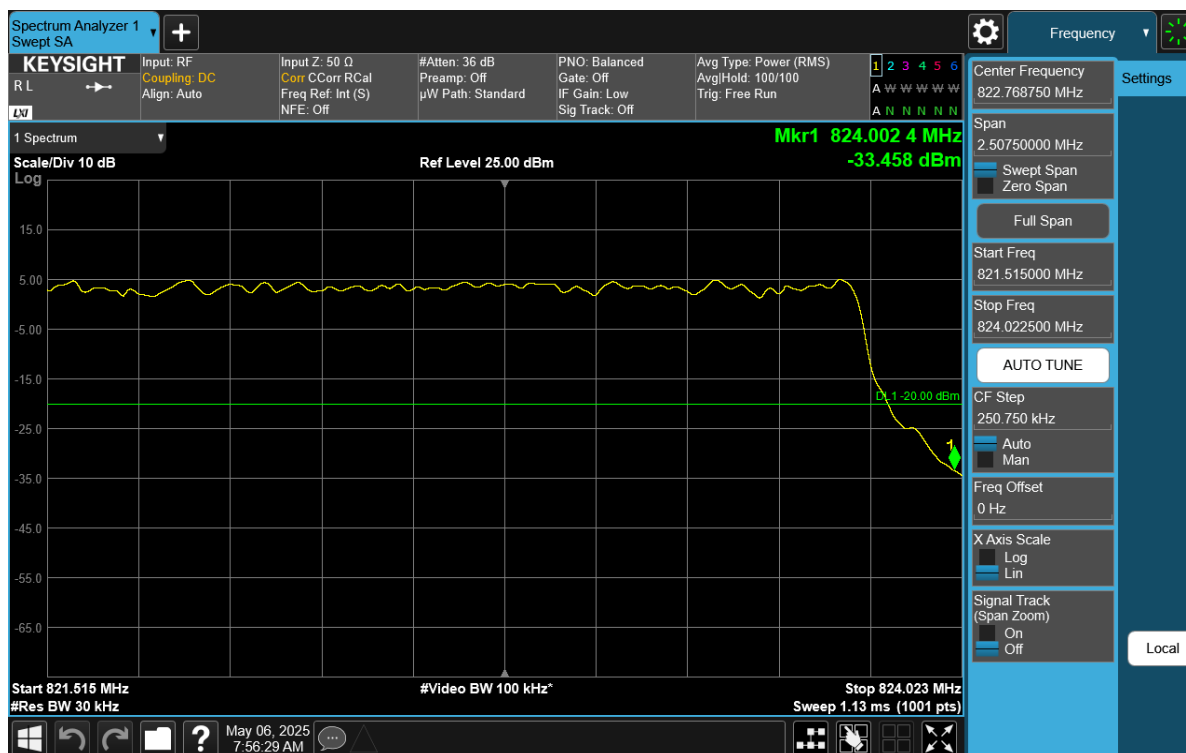
NR Band n26




FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 66 of 96

V2.2 09/07/2023

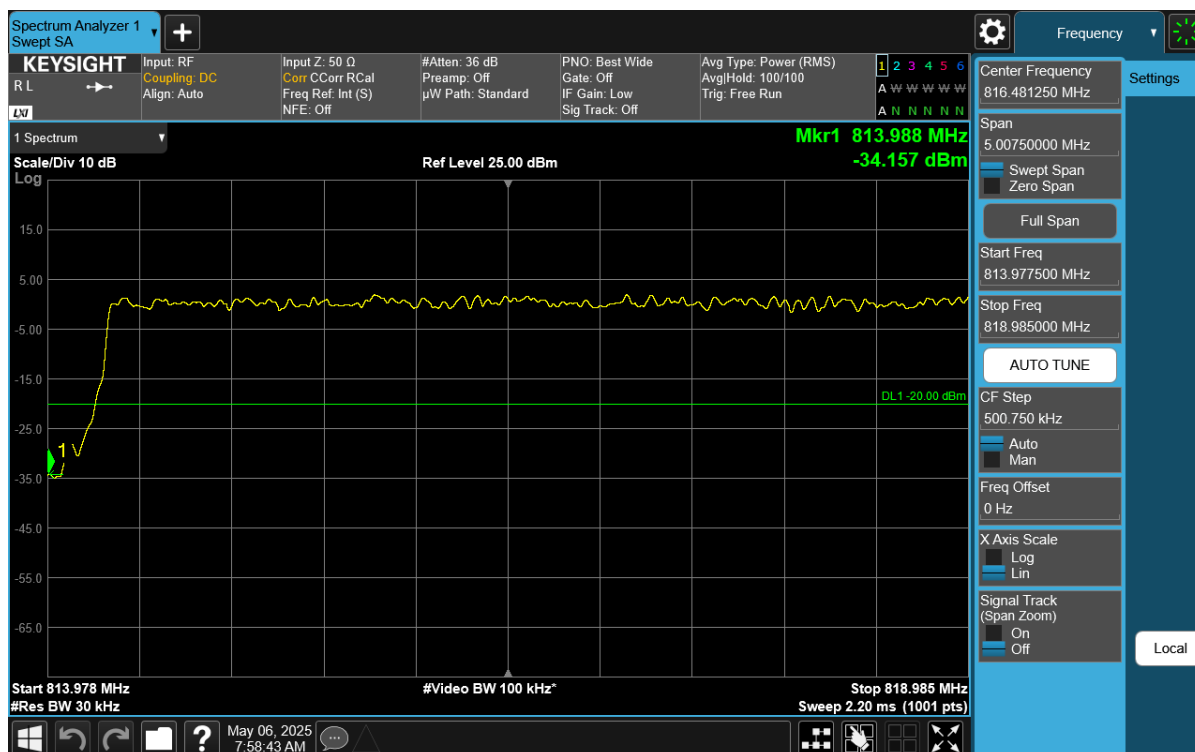
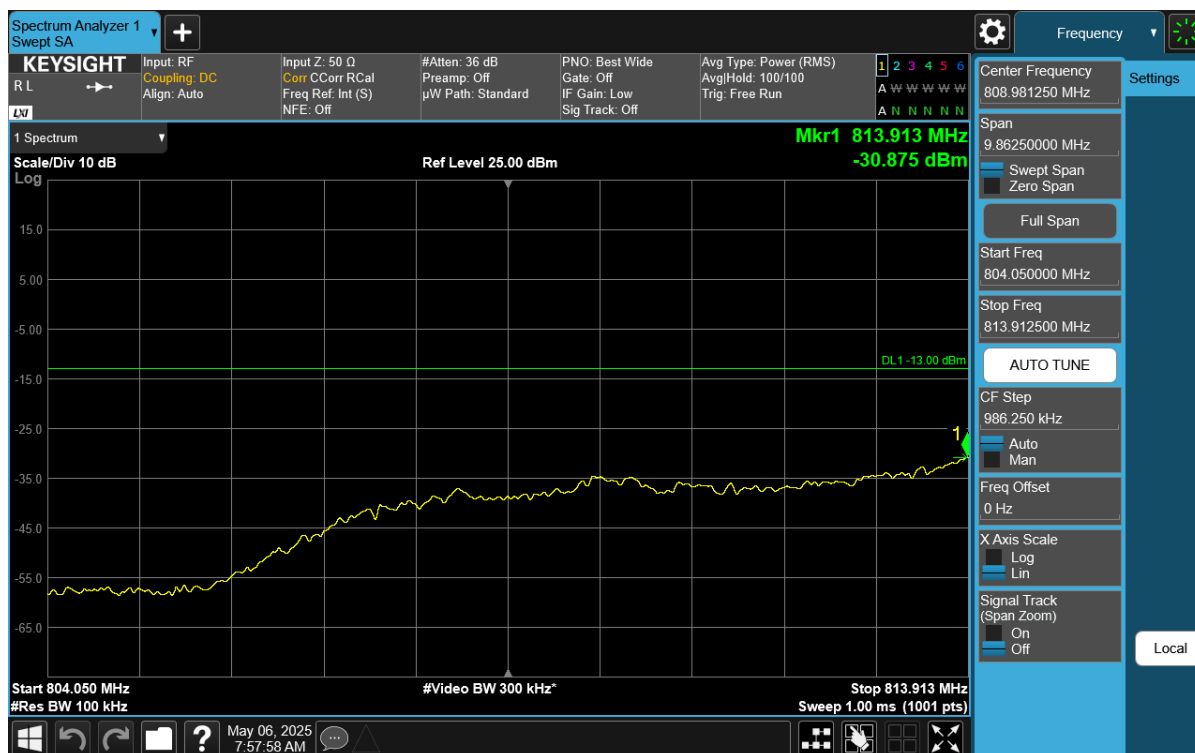
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 67 of 96

V2.2 09/07/2023

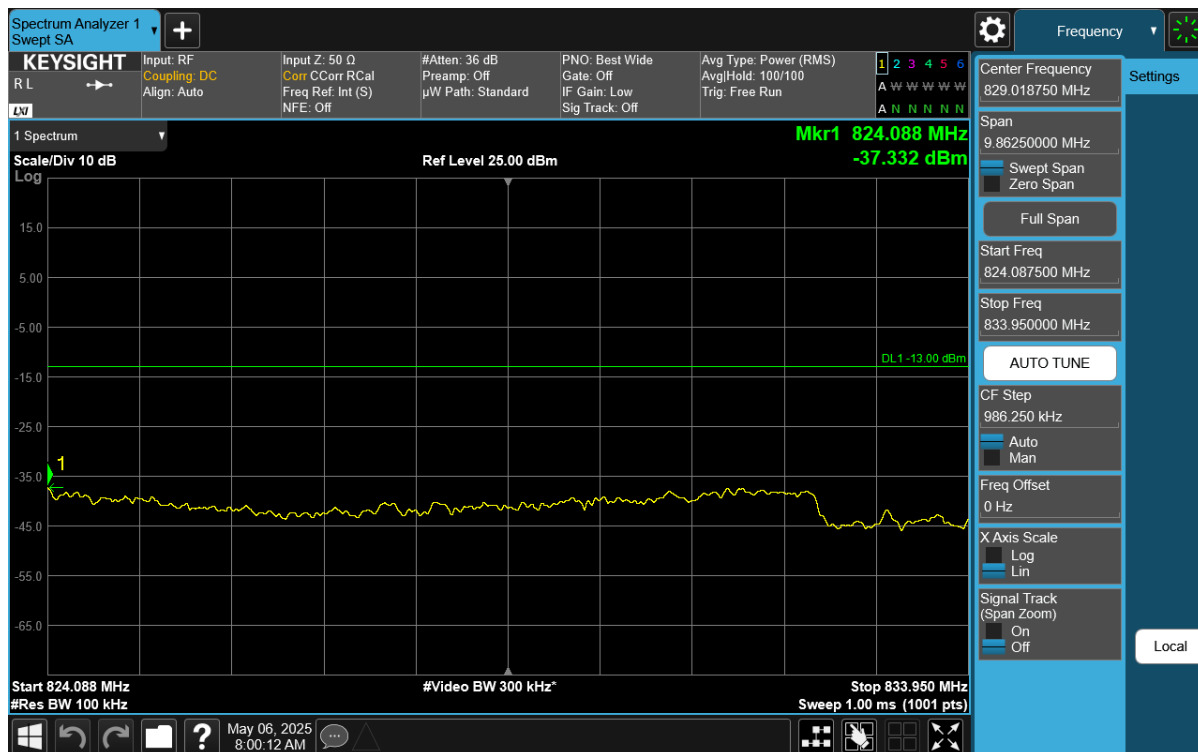
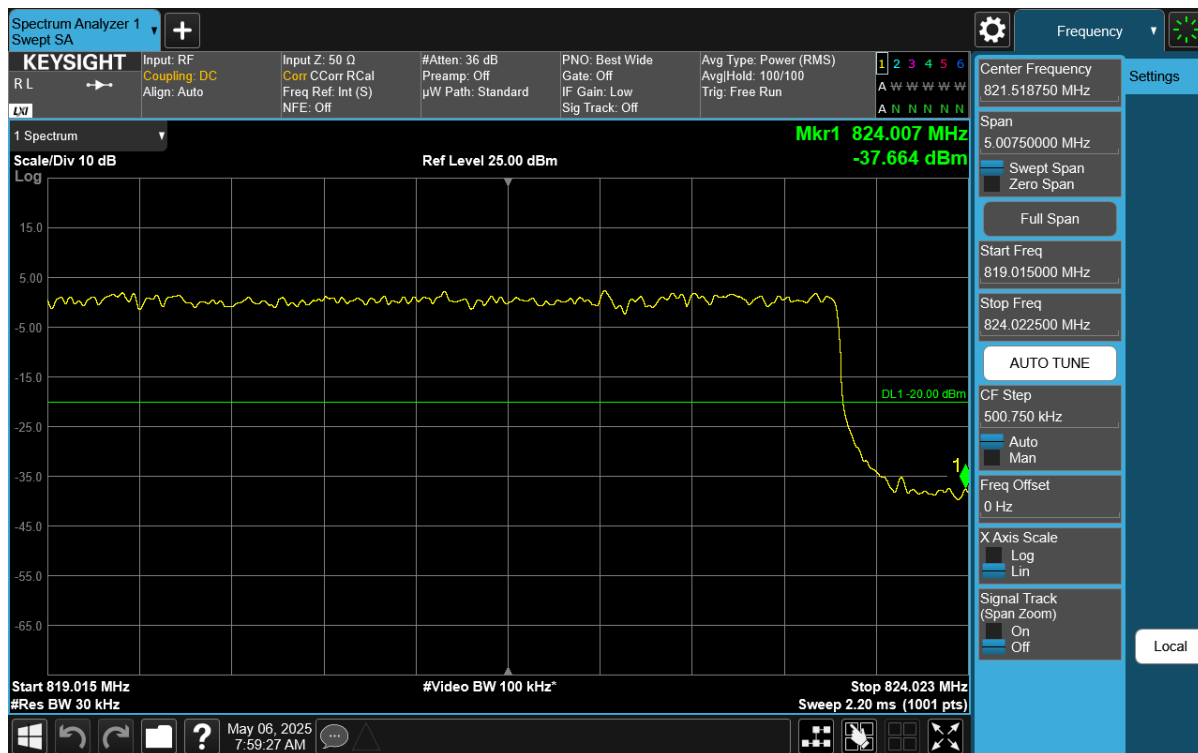
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.




FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 68 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

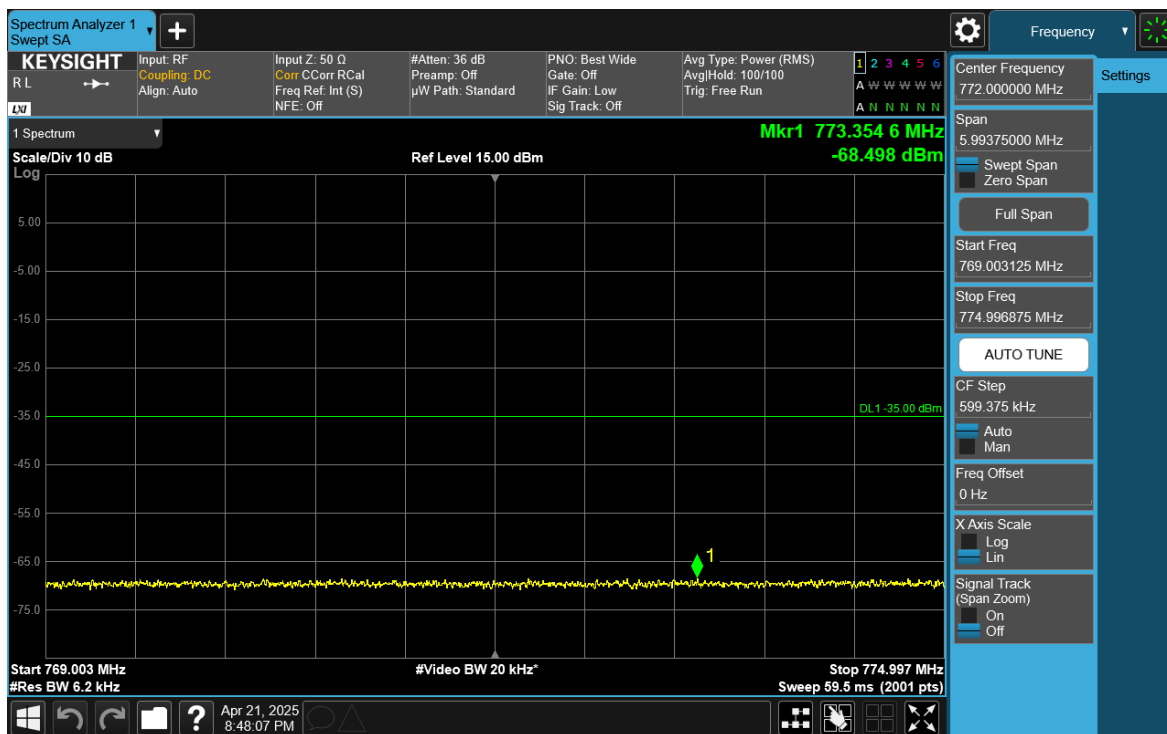


FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 69 of 96

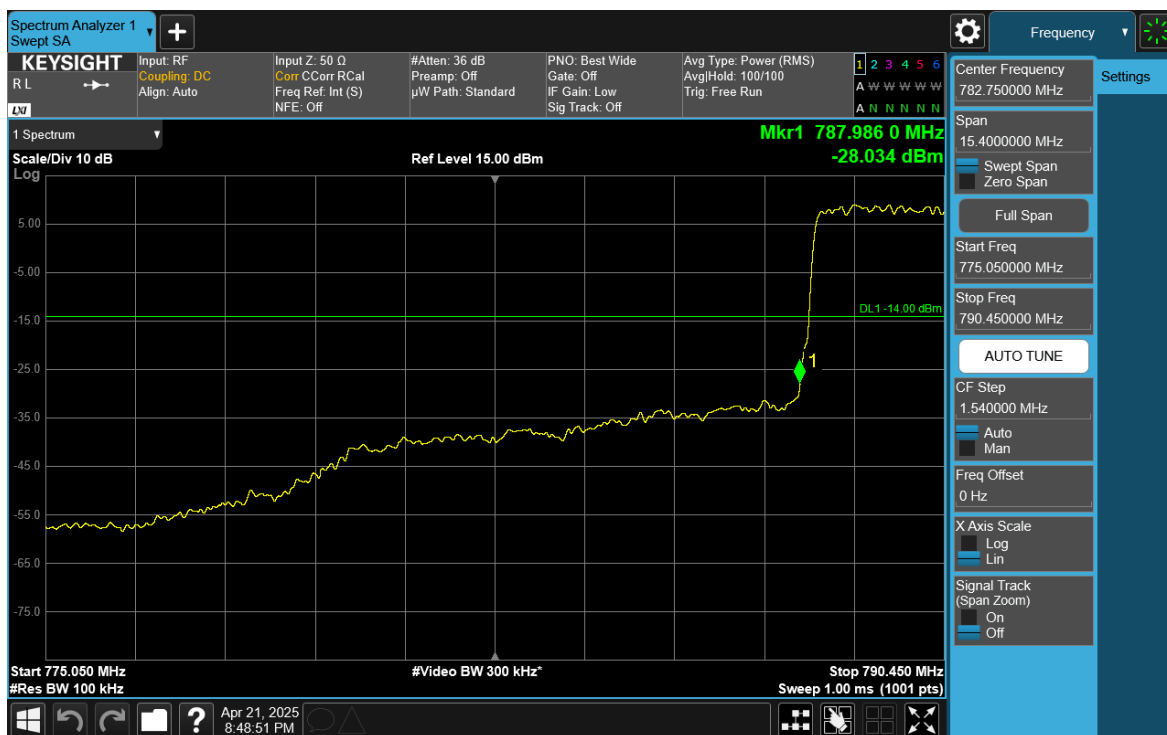
V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.


NR Band n14



Plot 7-97. Lower Emission Mask Plot (NR Band n14, 5MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 25)

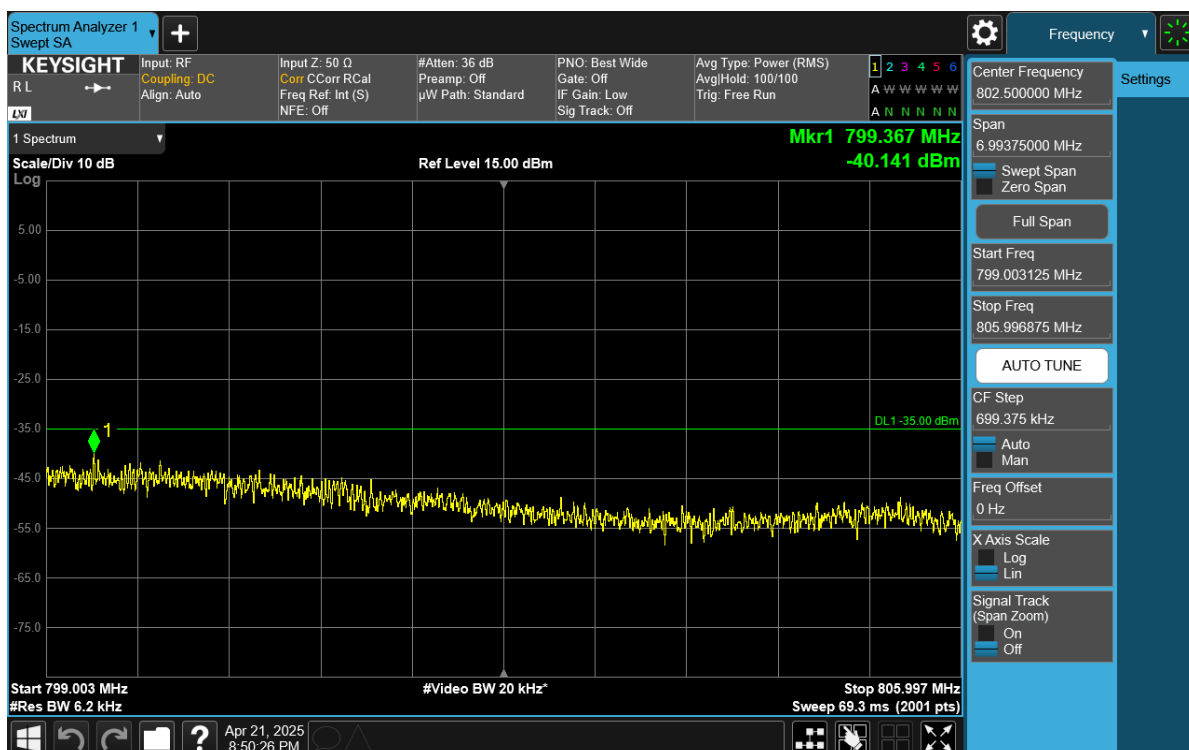



Plot 7-98. Lower band Edge Plot (NR Band n14, 5MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 25)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 70 of 96

V2.2 09/07/2023

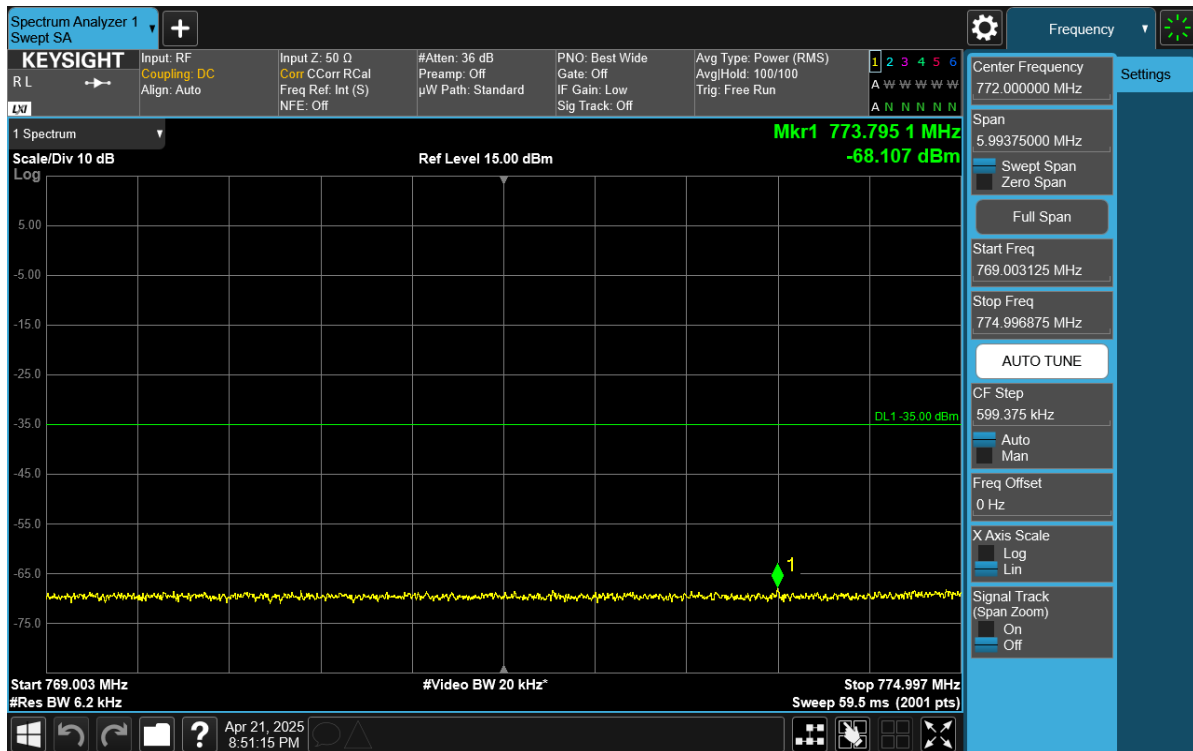
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



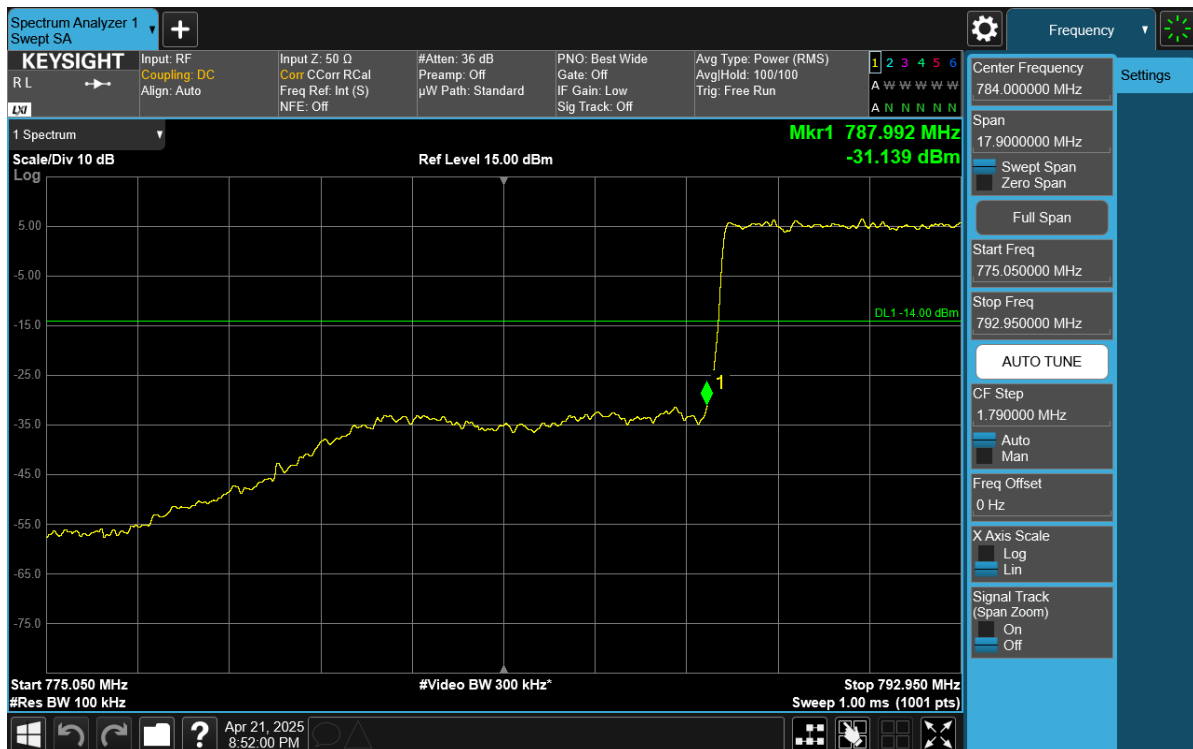
FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 71 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-101. Lower Emission Mask Plot (NR Band n14, 10MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 50)

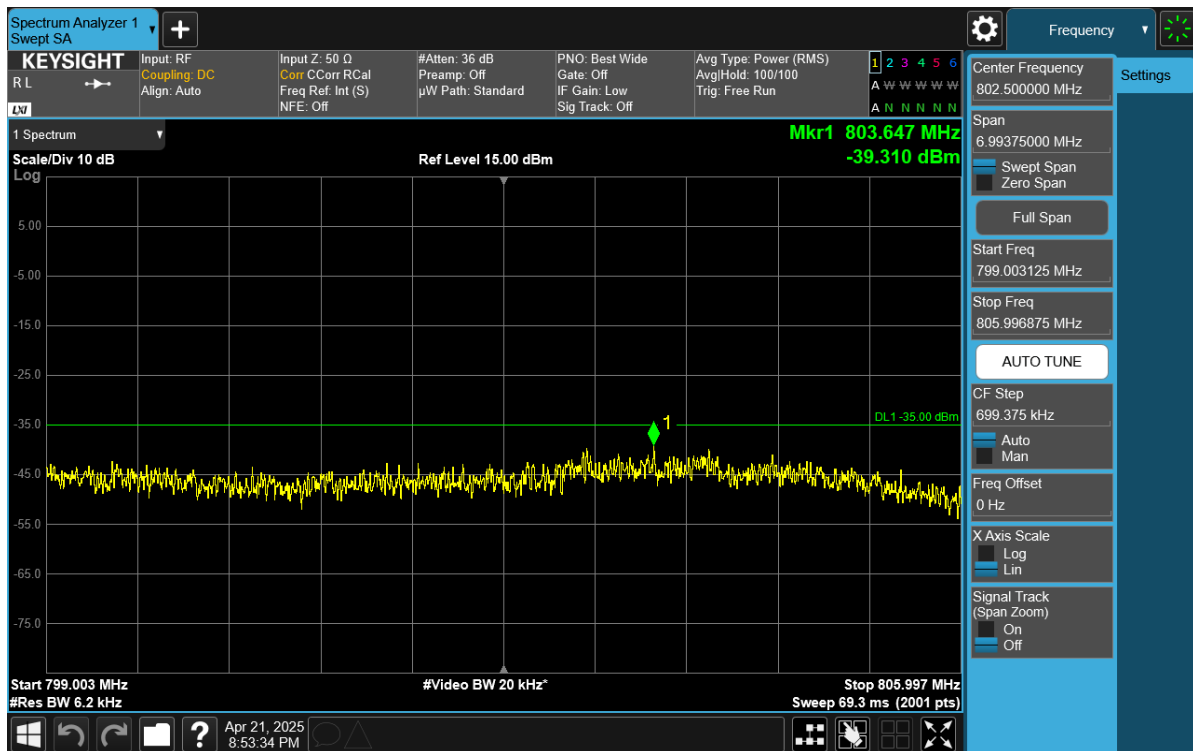
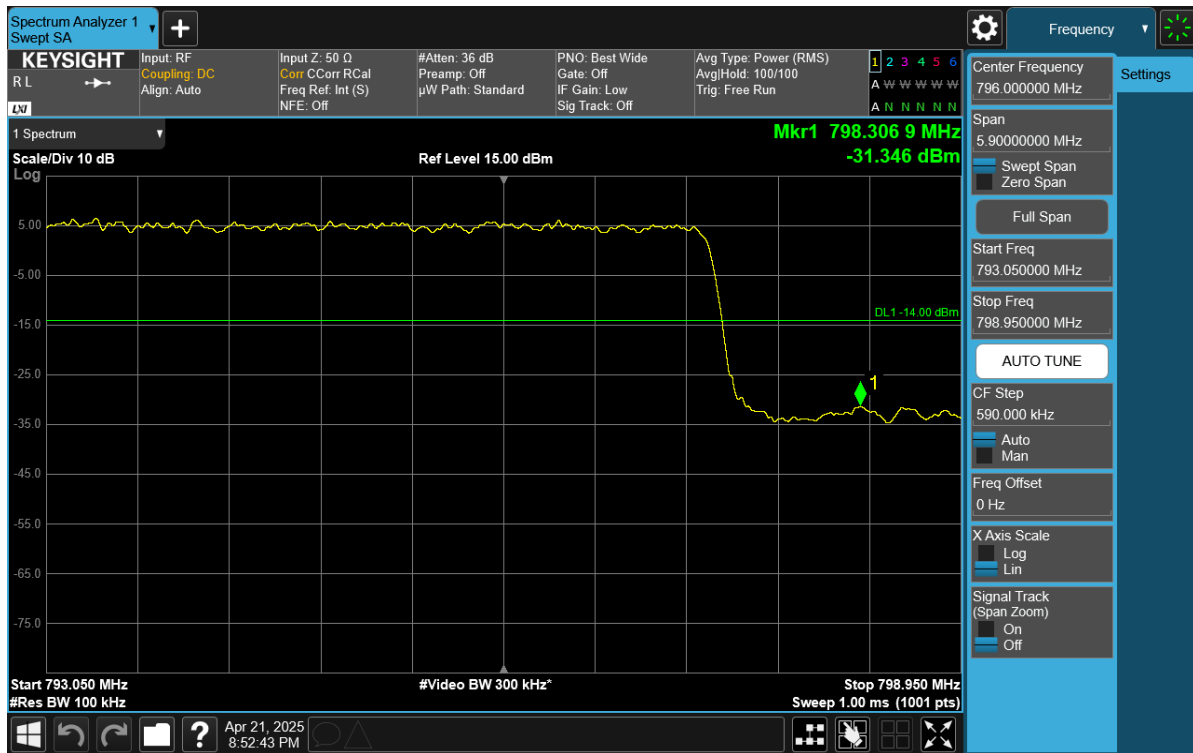



Plot 7-102. Lower Band Edge Plot (NR Band n14, 10MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 50)

FCC ID: BCG-A3326	element	PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 72 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 73 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

7.5 Conducted Power Output Data

\$2.1046 \$90.635

Test Overview

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedures Used

KDB 971168 D01 v03r01

Test Setup

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

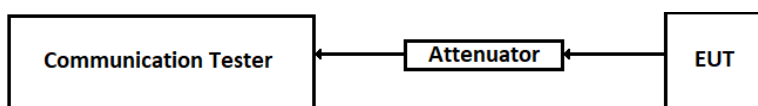


Figure 7-7. LTE Conducted Power Measurement Setup

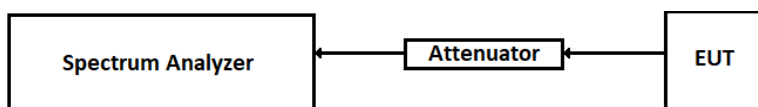



Figure 7-8. FR1 Conducted Power Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 74 of 96

V2.2 09/07/2023


7.5.1 Antenna BCM – Conducted Power

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [mW]	Conducted Power Limit [dBm]	Margin [dB]
1.4 MHz	QPSK	814.7	1 / 5	25.69	370.681	50.00	-24.31
		823.3	1 / 5	25.51	355.631	50.00	-24.49
	16-QAM	823.3	1 / 0	24.55	285.102	50.00	-25.45
3 MHz	QPSK	815.5	1 / 0	25.57	360.579	50.00	-24.43
		822.5	1 / 0	25.56	359.749	50.00	-24.44
	16-QAM	822.5	1 / 0	24.59	287.740	50.00	-25.41
5 MHz	QPSK	816.5	1 / 24	25.46	351.560	50.00	-24.54
		821.5	1 / 0	25.64	366.438	50.00	-24.36
	16-QAM	816.5	1 / 24	24.57	286.418	50.00	-25.43
10 MHz	QPSK	819.0	1 / 25	25.68	369.828	50.00	-24.32
	16-QAM	819.0	1 / 25	24.44	277.971	50.00	-25.56

Table 7-2. Antenna BCM Conducted Power Output Data (LTE Band 26)

Bandwidth	Modulation	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Conducted Power [mW]	Conducted Powers Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	816.5	1 / 12	25.42	348.337	50.00	-24.58
		819.0	1 / 12	25.44	349.945	50.00	-24.56
		821.5	1 / 24	25.62	364.754	50.00	-24.38
	QPSK	816.5	1 / 12	25.70	371.535	50.00	-24.30
		819.0	1 / 12	25.67	368.978	50.00	-24.33
		821.5	1 / 0	25.51	355.631	50.00	-24.49
10 MHz	16-QAM	816.5	1 / 12	24.65	291.743	50.00	-25.35
	64-QAM	819.0	1 / 0	23.67	232.809	50.00	-26.33
	$\pi/2$ BPSK	819.0	1 / 25	25.51	355.631	50.00	-24.49
	QPSK	819.0	1 / 0	25.59	362.243	50.00	-24.41
	16-QAM	819.0	1 / 51	24.69	294.442	50.00	-25.31
	64-QAM	819.0	1 / 25	23.53	225.424	50.00	-26.47

Table 7-3. Antenna BCM Conducted Power Output Data (NR Band n26)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 75 of 96

V2.2 09/07/2023

7.6 Radiated Power (ERP)

§90.542(a)(7)

Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015
TIA-603-E-2016 – Section 2.2.17

Test Settings

The relevant equation for determining the ERP from the conducted RF output power measured is:

$$\text{ERP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP = Effective Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP)

Test Setup

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

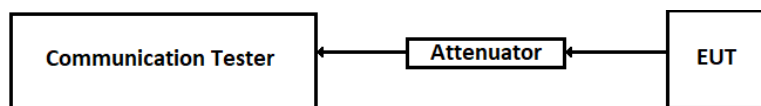


Figure 7-9. LTE ERP Measurement Setup

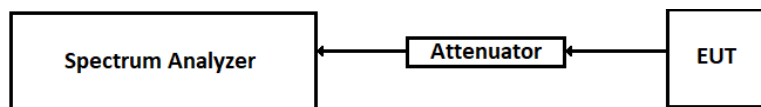




Figure 7-10. FR1 ERP Measurement Setup

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 76 of 96

V2.2 09/07/2023

Test Notes

- 1) The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The Ant. Gains (GT) are listed in dBi.

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 77 of 96

V2.2 09/07/2023


7.6.1 Antenna BCM – ERP

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	QPSK	790.5	-26.20	1 / 12	25.64	-2.71	0.536	34.77	-37.48
		793.0	-26.20	1 / 0	25.70	-2.65	0.543	34.77	-37.42
		795.5	-26.20	1 / 0	25.56	-2.79	0.526	34.77	-37.56
10 MHz	16-QAM	793.0	-26.20	1 / 0	25.27	-3.08	0.492	34.77	-37.85
	QPSK	793.0	-26.20	1 / 0	25.63	-2.72	0.535	34.77	-37.49
	16-QAM	793.0	-26.20	1 / 0	24.61	-3.74	0.423	34.77	-38.51

Table 7-4. Antenna BCM ERP Data (LTE Band 14)

Bandwidth	Modulation	Frequency [MHz]	Ant. Gain [dBi]	RB Size/Offset	Conducted Power [dBm]	ERP [dBm]	ERP [mW]	ERP Limit [dBm]	Margin [dB]
5 MHz	$\pi/2$ BPSK	790.5	-26.20	1 / 0	25.62	-2.73	0.533	34.77	-37.50
		793.0	-26.20	1 / 12	25.53	-2.82	0.522	34.77	-37.59
		795.5	-26.20	1 / 0	25.62	-2.73	0.533	34.77	-37.50
	QPSK	790.5	-26.20	1 / 24	25.41	-2.94	0.508	34.77	-37.71
		793.0	-26.20	1 / 12	25.70	-2.65	0.543	34.77	-37.42
		795.5	-26.20	1 / 24	25.68	-2.67	0.541	34.77	-37.44
10 MHz	16-QAM	795.5	-26.20	1 / 12	24.69	-3.66	0.431	34.77	-38.43
	64-QAM	790.5	-26.20	1 / 0	23.66	-4.69	0.340	34.77	-39.46
	$\pi/2$ BPSK	793.0	-26.20	1 / 25	25.67	-2.68	0.540	34.77	-37.45
	QPSK	793.0	-26.20	1 / 25	25.52	-2.83	0.521	34.77	-37.60
	16-QAM	793.0	-26.20	1 / 0	24.49	-3.86	0.411	34.77	-38.63
	64-QAM	793.0	-26.20	1 / 0	23.53	-4.82	0.330	34.77	-39.59

Table 7-5. Antenna BCM ERP Data (NR Band n14)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 78 of 96

V2.2 09/07/2023

7.7 Radiated Spurious Emissions

§2.1053 §90.691(a) §90.543(e)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used


KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 – Section 2.2.12

Test Settings

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

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 79 of 96

V2.2 09/07/2023

Test Setup

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

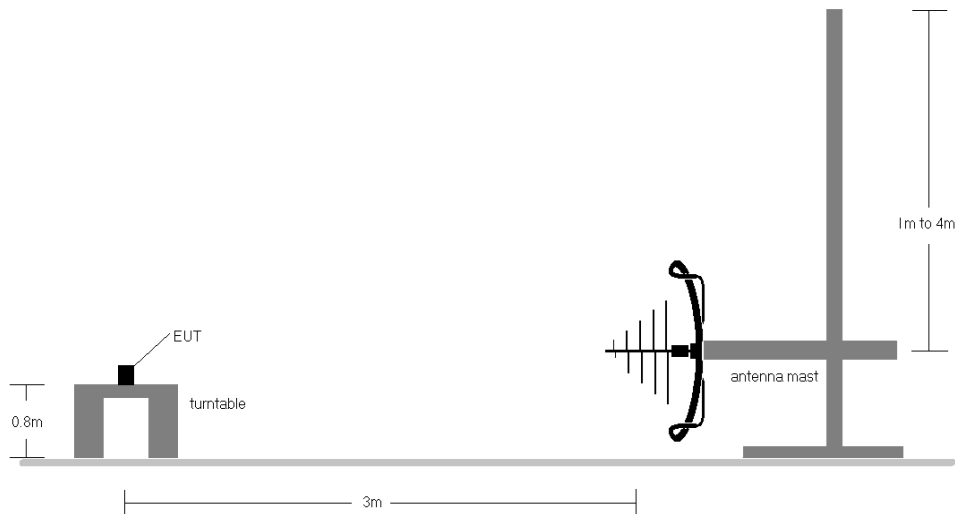


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

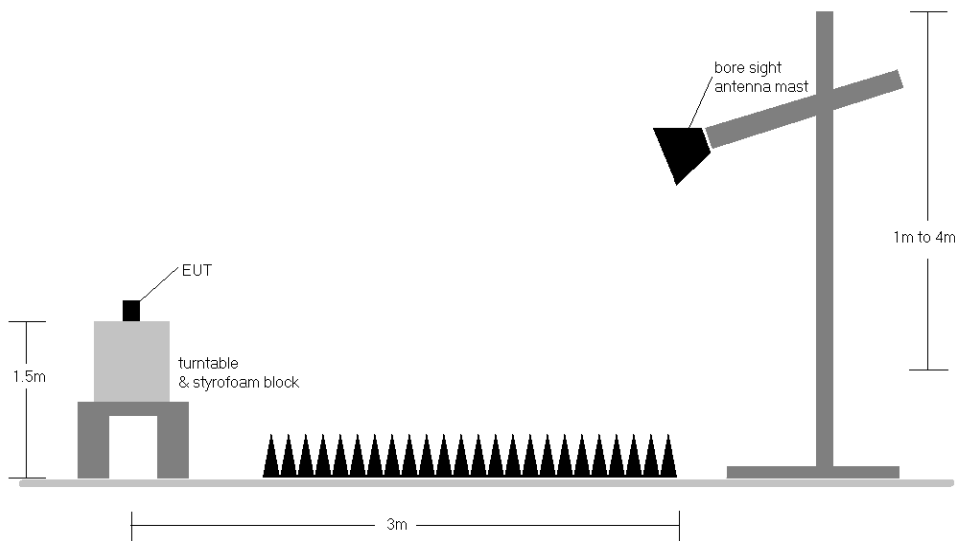




Figure 7-12. Test Instrument & Measurement Setup >1 GHz

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 80 of 96

Test Notes

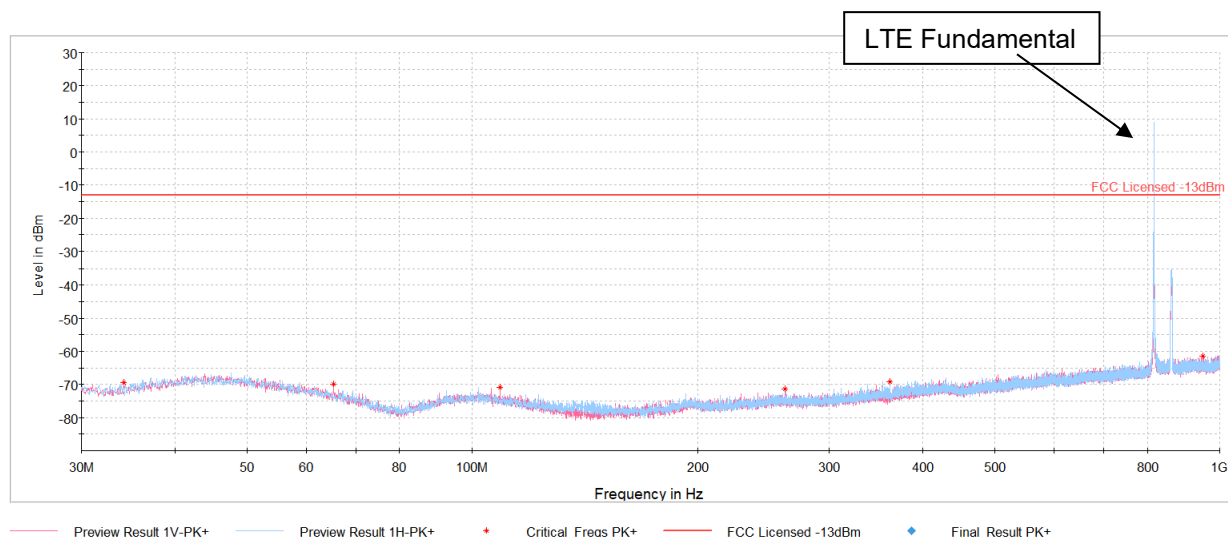
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 v03r01 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 81 of 96

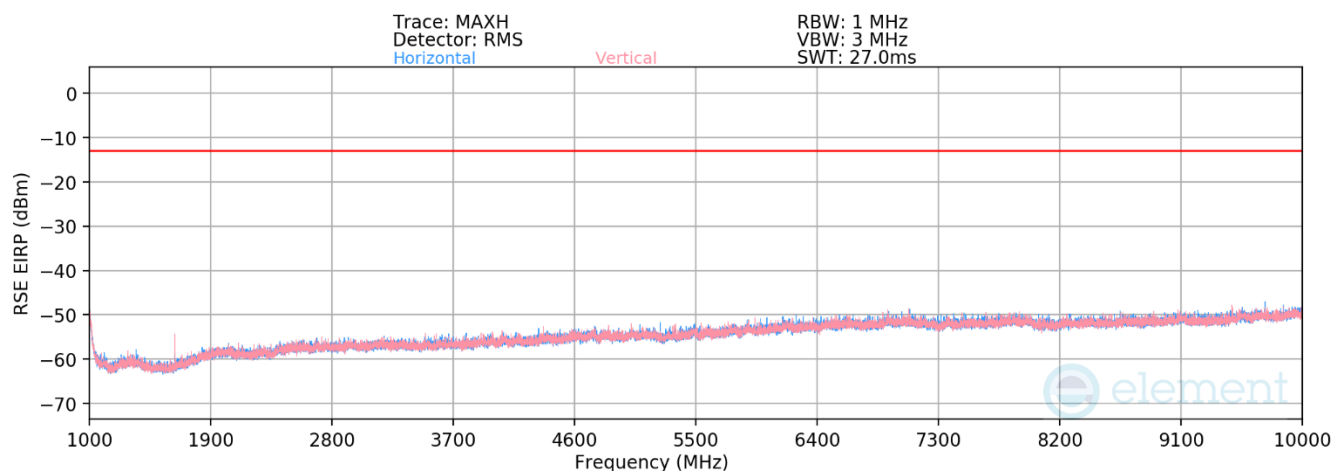
V2.2 09/07/2023

7.7.1 Antenna BCM – Radiated Spurious Emission Measurements


LTE Band 26



Plot 7-105. Antenna BCM Radiated Spurious Plot Below 1GHz (LTE Band 26)



Plot 7-106. Antenna BCM Radiated Spurious Plot Above 1GHz (LTE Band 26)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 82 of 96

V2.2 09/07/2023

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1633.0	V	100	6	-67.01	-2.36	37.63	-57.63	-13.00	-44.63
2449.5	-	-	-	-78.02	2.47	31.45	-63.81	-13.00	-50.81
3266.0	-	-	-	-78.99	4.38	32.39	-62.87	-13.00	-49.87
4082.5	-	-	-	-79.53	6.11	33.57	-61.68	-13.00	-48.68

Table 7-6. Antenna BCM Radiated Spurious Data (LTE Band 26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
RB Config (Size / 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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	V	272	342	-73.32	-2.36	31.32	-63.94	-13.00	-50.94
2457.0	-	-	-	-78.41	2.76	31.35	-63.91	-13.00	-50.91
3276.0	-	-	-	-79.05	4.38	32.33	-62.93	-13.00	-49.93
4095.0	-	-	-	-79.83	6.52	33.69	-61.57	-13.00	-48.57

Table 7-7. Antenna BCM Radiated Spurious Data (LTE Band 26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

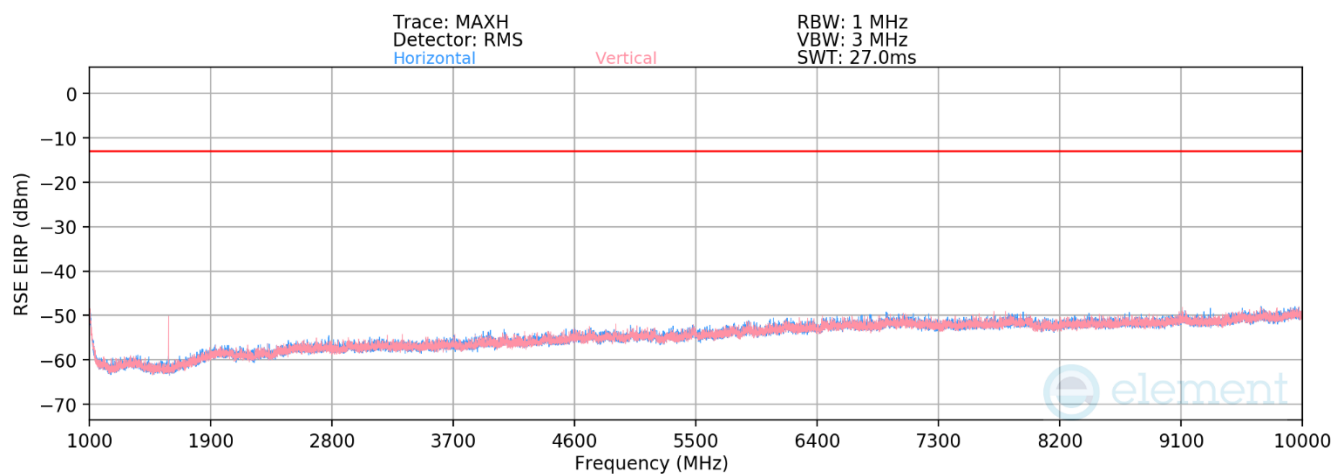
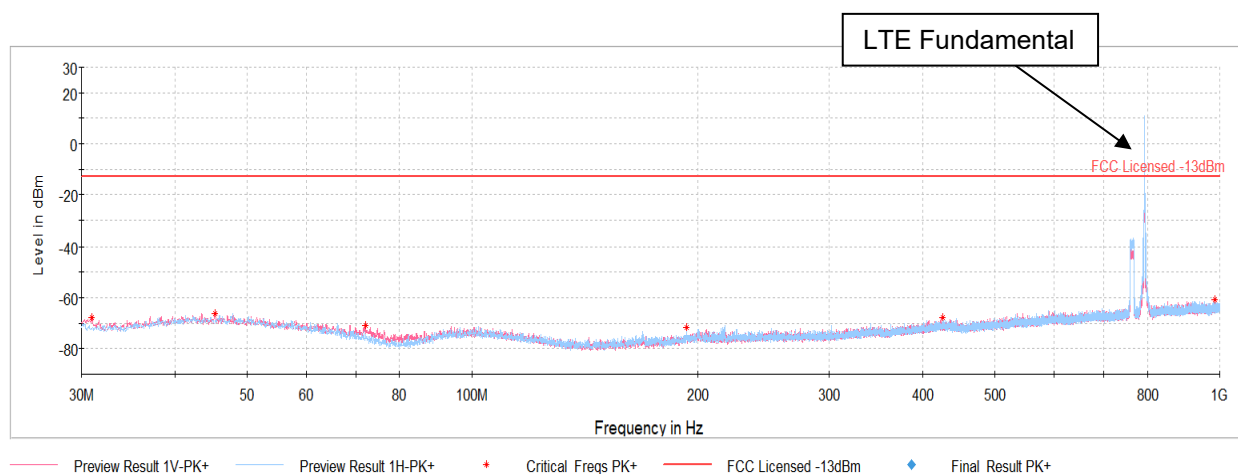
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	V	100	364	-69.45	-2.36	35.18	-60.07	-13.00	-47.07
2464.5	-	-	-	-78.27	2.76	31.48	-63.78	-13.00	-50.78
3286.0	-	-	-	-79.19	4.47	32.29	-62.97	-13.00	-49.97
4107.5	-	-	-	-80.02	6.52	33.50	-61.76	-13.00	-48.76


Table 7-8. Antenna BCM Radiated Spurious Data (LTE Band 26 – High Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 83 of 96

V2.2 09/07/2023

LTE Band 14



FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 84 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

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]
1581.0	V	115	254	-68.82	-2.41	35.77	-59.49	-40.00	-19.49
2371.5	-	-	-	-77.78	1.56	30.78	-64.48	-13.00	-51.48
3162.0	-	-	-	-78.81	4.34	32.53	-62.73	-13.00	-49.73
3952.5	-	-	-	-79.50	5.76	33.26	-62.00	-13.00	-49.00

Table 7-9. Antenna BCM Radiated Spurious Data (LTE Band 14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
RB Config (Size / 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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	100	343	-64.54	-2.41	40.05	-55.21	-40.00	-15.21
2379.0	-	-	-	-77.68	1.62	30.94	-64.32	-13.00	-51.32
3172.0	-	-	-	-78.88	4.39	32.51	-62.75	-13.00	-49.75
3965.0	-	-	-	-79.83	6.11	33.28	-61.98	-13.00	-48.98

Table 7-10. Antenna BCM Radiated Spurious Data (LTE Band 14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 12

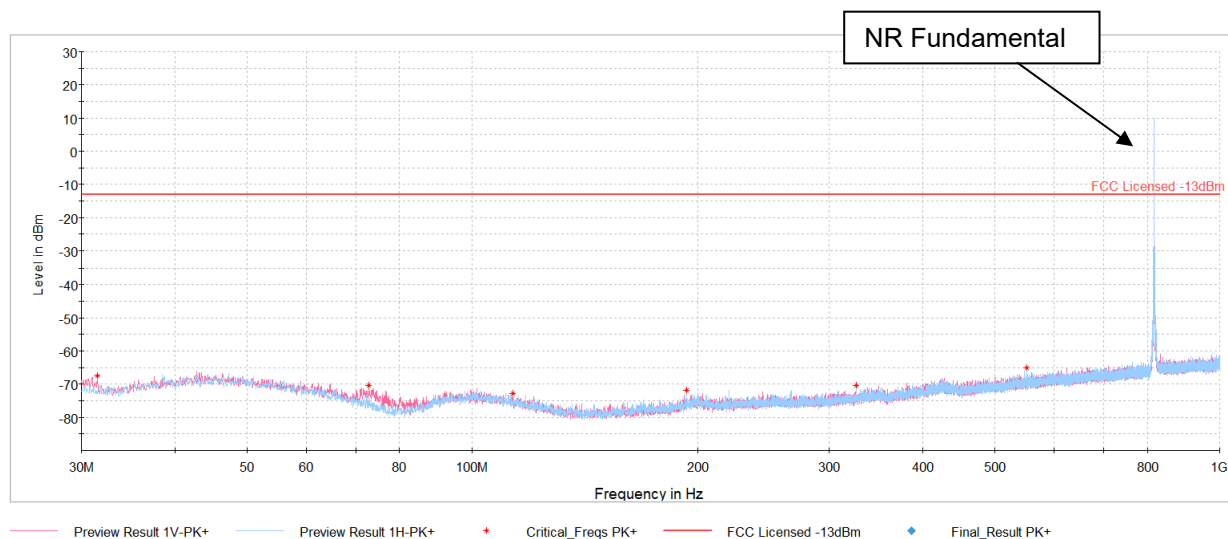
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1591.0	V	116	341	-70.31	-2.41	34.27	-60.98	-40.00	-20.98
2386.5	-	-	-	-77.95	1.94	30.99	-64.27	-13.00	-51.27
3182.0	-	-	-	-78.84	4.34	32.50	-62.76	-13.00	-49.76
3977.5	-	-	-	-79.82	6.11	33.29	-61.96	-13.00	-48.96

Table 7-11. Antenna BCM Radiated Spurious Data (LTE Band 14 – High Channel)

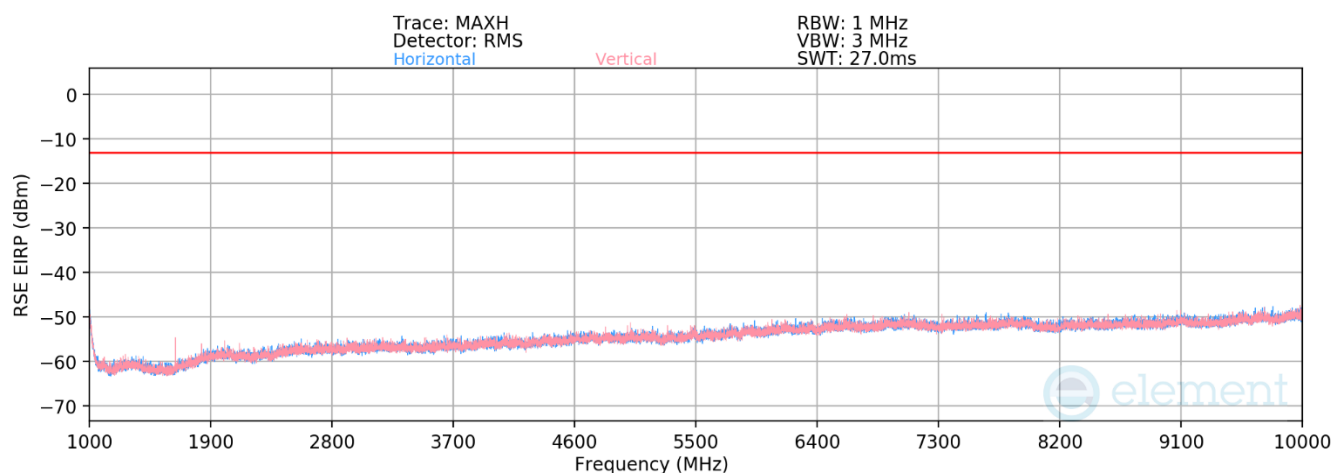
FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 85 of 96

V2.2 09/07/2023


NR Band 26



Plot 7-109. Antenna BCM Radiated Spurious Plot Below 1GHz (NR Band n26)



Plot 7-110. Antenna BCM Radiated Spurious Plot Above 1GHz (NR Band n26)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 86 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

Bandwidth (MHz):	5
Frequency (MHz):	816.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1633.0	V	117	350	-73.15	-2.36	31.49	-63.76	-13.00	-50.76
2449.5	-	-	-	-78.26	2.47	31.21	-64.04	-13.00	-51.04
3266.0	-	-	-	-79.04	4.36	32.31	-62.94	-13.00	-49.94
4082.5	-	-	-	-79.78	6.52	33.74	-61.51	-13.00	-48.51

Table 7-12. Antenna BCM Radiated Spurious Data (NR Band n26 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	819.0
Modulation Signal:	QPSK
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1638.0	-	-	-	-77.49	-1.62	27.89	-67.37	-13.00	-54.37
2457.0	-	-	-	-78.06	2.47	31.42	-63.84	-13.00	-50.84
3276.0	-	-	-	-79.03	4.38	32.35	-62.91	-13.00	-49.91

Table 7-13. Antenna BCM Radiated Spurious Data (NR Band n26 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	821.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

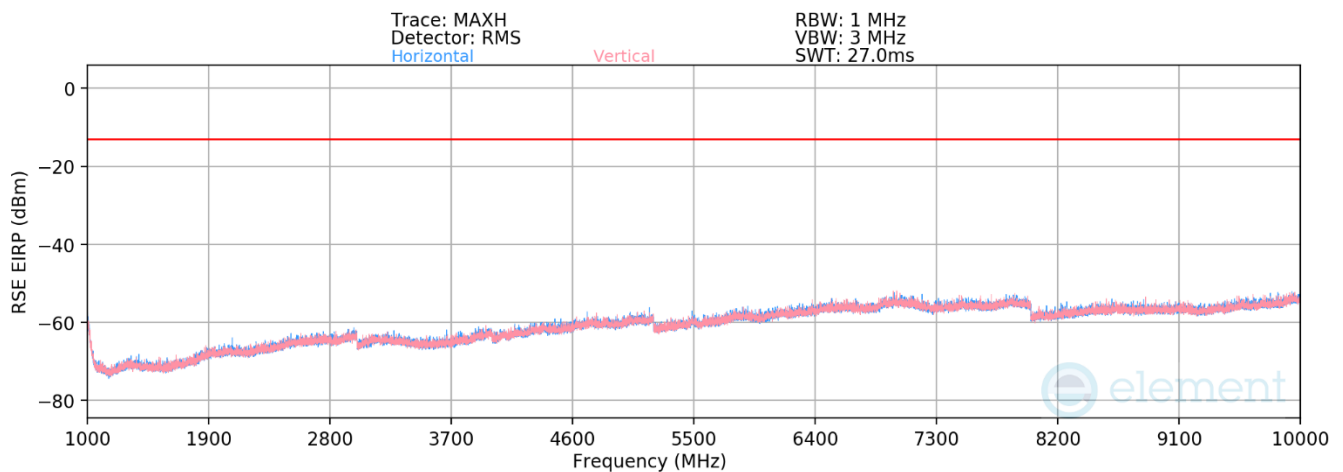
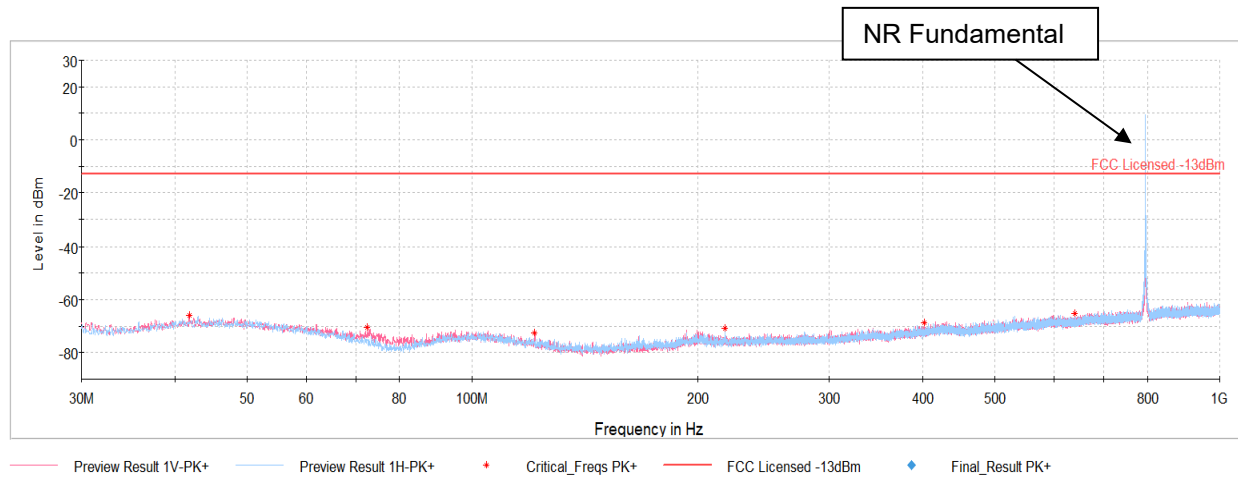
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1643.0	-	-	-	-77.40	-1.54	28.06	-67.20	-13.00	-54.20
2464.5	-	-	-	-78.08	2.76	31.68	-63.58	-13.00	-50.58
3286.0	-	-	-	-78.96	4.36	32.40	-62.86	-13.00	-49.86


Table 7-14. Antenna BCM Radiated Spurious Data (NR Band n26 – High Channel)

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 87 of 96

V2.2 09/07/2023

NR Band n14



FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 88 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

Bandwidth (MHz):	5
Frequency (MHz):	790.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1581.0	-	-	-	-77.31	-2.45	27.23	-68.03	-40.00	-28.03
2371.5	-	-	-	-77.72	1.56	30.84	-64.42	-13.00	-51.42
2162.0	-	-	-	-78.88	4.38	32.50	-62.76	-13.00	-49.76

Table 7-15. Antenna BCM Radiated Spurious Data (NR Band n14 – Low Channel)

Bandwidth (MHz):	10
Frequency (MHz):	793.0
Modulation Signal:	QPSK
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]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1586.0	V	101	331	-69.98	-2.41	34.61	-60.65	-40.00	-20.65
2379.0	-	-	-	-77.75	1.62	30.87	-64.39	-13.00	-51.39
3172.0	-	-	-	-78.85	4.34	32.49	-62.77	-13.00	-49.77
2965.0	-	-	-	-79.84	6.11	33.28	-61.98	-13.00	-48.98

Table 7-16. Antenna BCM Radiated Spurious Data (NR Band n14 – Mid Channel)

Bandwidth (MHz):	5
Frequency (MHz):	795.5
Modulation Signal:	QPSK
RB / Offset:	1 / 12

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]
1591.0	V	100	349	-67.38	-2.41	37.21	-58.05	-40.00	-18.05
2386.5	-	-	-	-77.53	1.94	31.41	-63.85	-13.00	-50.85
3182.0	-	-	-	-79.01	4.39	32.39	-62.87	-13.00	-49.87
3977.5	-	-	-	-79.77	6.06	33.29	-61.97	-13.00	-48.97

Table 7-17. Antenna BCM Radiated Spurious Data (NR Band n14 – High Channel)

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 89 of 96

V2.2 09/07/2023

7.8 Frequency Stability / Temperature Variation

~~§2.1055~~ ~~§90.213~~

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. 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 Band 26, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Band 14 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

TIA-603-E-2016

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.

FCC ID: BCG-A3326		PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 90 of 96

V2.2 09/07/2023

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

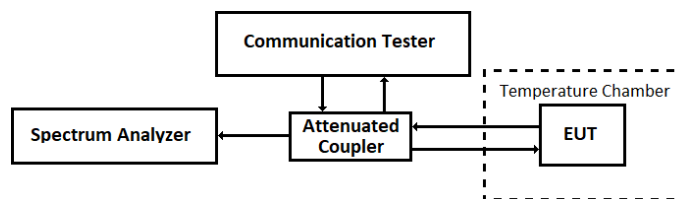


Figure 7-13. LTE Test Instrument & Measurement Setup

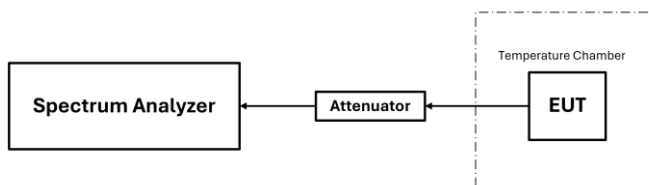



Figure 7-14. FR1 Test Instrument & Measurement Setup

Test Notes

N/A

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 91 of 96


V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

Frequency Stability / Temperature Variation

LTE Band 26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.819001983	0.000001971	0.000240647
		- 20	0.818998003	-0.000002009	-0.000245281
		- 10	0.819001543	0.000001531	0.000186966
		0	0.818999660	-0.000000352	-0.000043010
		+ 10	0.819000422	0.000000410	0.000050110
		+ 20 (Ref)	0.819000012	0.000000000	0.000000000
		+ 30	0.819000610	0.000000598	0.000072955
		+ 40	0.818998041	-0.000001971	-0.000240665
		+ 50	0.819001887	0.000001875	0.000228968
Battery Endpoint	3.40	+ 20	0.819001004	0.000000992	0.000121154

Table 7-18. LTE Band 26 Frequency Stability Data

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 92 of 96

V2.2 09/07/2023


Frequency Stability / Temperature Variation

LTE Band 14				
		Operating Band Lower Boundary (GHz)		0.788
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788143270	-0.000143270
		- 20	0.788512680	-0.000512680
		- 10	0.788037450	-0.000037450
		0	0.788678320	-0.000678320
		+ 10	0.788214890	-0.000214890
		+ 20 (Ref)	0.788596740	-0.000596740
		+ 30	0.788082360	-0.000082360
		+ 40	0.788449170	-0.000449170
		+ 50	0.788325640	-0.000325640
Battery Endpoint	3.40	+ 20	0.788670280	-0.000670280

Table 7-19. LTE Band 14 Lower Boundary Frequency Stability Data

LTE Band 14				
		Operating Band Upper Boundary (GHz)		0.798
		Ref. Voltage (VDC):		3.80
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797693120	-0.000306880
		- 20	0.797394280	-0.000605720
		- 10	0.797812460	-0.000187540
		0	0.797335770	-0.000664230
		+ 10	0.797401580	-0.000598420
		+ 20 (Ref)	0.797441990	-0.000558010
		+ 30	0.797754300	-0.000245700
		+ 40	0.797509630	-0.000490370
		+ 50	0.797760940	-0.000239060
Battery Endpoint	3.40	+ 20	0.797360880	-0.000639120

Table 7-20. LTE Band 14 Upper Boundary Frequency Stability Data


FCC ID: BCG-A3326			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 93 of 96

V2.2 09/07/2023

Frequency Stability / Temperature Variation

NR Band n26					
		Operating Frequency (GHz):		0.819	
		Ref. Voltage (VDC):		3.80	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (GHz)	Freq. Dev. (GHz)	Deviation (%)
100 %	3.80	- 30	0.818999766	-0.000000276	-0.000033700
		- 20	0.819000201	0.000000159	0.000019414
		- 10	0.819000084	0.000000042	0.000005128
		0	0.818999844	-0.000000198	-0.000024176
		+ 10	0.819000329	0.000000287	0.000035043
		+ 20 (Ref)	0.819000042	0.000000000	0.000000000
		+ 30	0.819000135	0.000000093	0.000011355
		+ 40	0.818999994	-0.000000048	-0.000005861
		+ 50	0.818999771	-0.000000271	-0.000033089
Battery Endpoint	3.40	+ 20	0.819000054	0.000000012	0.000001465

Table 7-21. NR Band n26 Frequency Stability Data

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch	Page 94 of 96

V2.2 09/07/2023


Frequency Stability / Temperature Variation

NR Band n14				
Operating Band Lower Boundary (GHz)			0.788	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.788151290	-0.000151290
		- 20	0.788583410	-0.000583410
		- 10	0.788409530	-0.000409530
		0	0.788049760	-0.000049760
		+ 10	0.788237150	-0.000237150
		+ 20 (Ref)	0.788654980	-0.000654980
		+ 30	0.788290710	-0.000290710
		+ 40	0.788538040	-0.000538040
		+ 50	0.788118920	-0.000118920
Battery Endpoint	3.40	+ 20	0.788476390	-0.000476390

Table 7-22. NR Band n14 Lower Boundary Frequency Stability Data

NR Band n14				
Operating Band Upper Boundary (GHz)			0.798	
Ref. Voltage (VDC):			3.80	
Voltage (%)	Power (VDC)	Temp (°C)	Measured Freq. (GHz)	Freq. Delta from Operating Range (GHz)
100 %	3.80	- 30	0.797468290	-0.000531710
		- 20	0.797583140	-0.000416860
		- 10	0.797721050	-0.000278950
		0	0.797376920	-0.000623080
		+ 10	0.797354890	-0.000645110
		+ 20 (Ref)	0.797432170	-0.000567830
		+ 30	0.797650830	-0.000349170
		+ 40	0.797310540	-0.000689460
		+ 50	0.797726480	-0.000273520
Battery Endpoint	3.40	+ 20	0.797527840	-0.000472160


Table 7-23. NR Band n14 Upper Boundary Frequency Stability Data

FCC ID: BCG-A3326			PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch		Page 95 of 96

V2.2 09/07/2023

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch** **FCC ID: BCG-A3326** complies with all the requirements of Part 90 of the FCC rules.

FCC ID: BCG-A3326	 PART 90 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270036-05.BCG	Test Dates: 03/31/2025 - 07/17/2025	EUT Type: Watch
		Page 96 of 96

V2.2 09/07/2023

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.