



PART 24 MEASUREMENT REPORT

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014
United States

Date of Testing:

1/17/2025 - 7/23/2025

Test Report Issue Date:

8/6/2025

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.:

1C2503270032-02.BCG

FCC ID:

BCG-A3335

Applicant Name:

Apple Inc.

Application Type:

Certification

Model:

A3335, A3452

EUT Type:

Watch

FCC Classification:

PCS Licensed Transmitter Worn on Body (PCT)

FCC Rule Part:

24

Test Procedure(s):

ANSI C63.26-2015, TIA-603-E-2016, KDB 971168 D01
v03r01


This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez
Executive Vice President




FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 1 of 131

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.

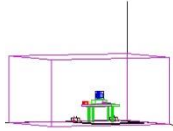
T A B L E O F C O N T E N T S

1.0	INTRODUCTION	5
1.1	Scope	5
1.2	Element Materials Technology Test Location.....	5
1.3	Test Facility / Accreditations.....	5
2.0	PRODUCT INFORMATION.....	6
2.1	Equipment Description	6
2.2	Device Capabilities.....	6
2.3	Antenna Description	7
2.4	Test Support Equipment.....	7
2.5	Test Configuration	8
2.6	Software and Firmware	8
2.7	EMI Suppression Device(s)/Modifications	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	Radiated Spurious Emissions	9
4.0	MEASUREMENT UNCERTAINTY	10
5.0	TEST EQUIPMENT CALIBRATION DATA	11
6.0	SAMPLE CALCULATIONS	12
7.0	TEST RESULTS	13
7.1	Summary.....	13
7.2	Occupied Bandwidth	14
7.3	Spurious and Harmonic Emissions at Antenna Terminal	30
7.4	Band Edge Emissions at Antenna Terminal	42
7.5	Peak-Average Ratio	84
7.6	Radiated Power (EIRP).....	114
7.7	Radiated Spurious Emissions	120
7.8	Frequency Stability / Temperature Variation	127
8.0	CONCLUSION.....	131

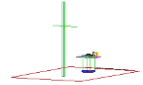
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 2 of 131

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.




PART 24 MEASUREMENT REPORT



Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [mW]	Max. Power [dBm]	
Band 2	1.4 MHz	QPSK	1850.7 - 1909.3	1.0942	5.13	26.303	14.20	1M09G7W
		16QAM	1850.7 - 1909.3	1.1072	6.12	21.380	13.30	1M11D7W
	3 MHz	QPSK	1851.5 - 1908.5	2.7197	5.27	26.303	14.20	2M72G7W
		16QAM	1851.5 - 1908.5	2.7148	5.86	22.594	13.54	2M71D7W
	5 MHz	QPSK	1852.5 - 1907.5	4.5325	5.32	26.303	14.20	4M53G7W
		16QAM	1852.5 - 1907.5	4.5077	5.96	23.335	13.68	4M51D7W
	10MHz	QPSK	1855 - 1905	9.0063	5.36	26.303	14.20	9M01G7W
		16QAM	1856 - 1905	5.0680	5.81	22.646	13.55	5M07D7W
	15 MHz	QPSK	1857.5 - 1902.5	13.5426	5.42	26.303	14.20	13M5G7W
		16QAM	1857.5 - 1902.5	5.4232	5.85	22.131	13.45	5M42D7W
	20 MHz	QPSK	1860 - 1900	18.0093	5.24	26.303	14.20	18M0G7W
		16QAM	1860 - 1900	5.5979	5.76	23.121	13.64	5M60D7W
Band 25	1.4 MHz	QPSK	1850.7 - 1914.3	1.0942	5.21	26.303	14.20	1M09G7W
		16QAM	1850.7 - 1914.3	1.1072	6.07	22.387	13.50	1M11D7W
	3 MHz	QPSK	1851.5 - 1913.5	2.7197	5.21	26.303	14.20	2M72G7W
		16QAM	1851.5 - 1913.5	2.7148	5.88	22.961	13.61	2M71D7W
	5 MHz	QPSK	1852.5 - 1912.5	4.5325	5.31	26.303	14.20	4M53G7W
		16QAM	1852.5 - 1912.5	4.5077	5.94	23.550	13.72	4M51D7W
	10 MHz	QPSK	1855 - 1910	9.0063	5.40	26.303	14.20	9M01G7W
		16QAM	1855 - 1910	5.0680	5.88	22.542	13.53	5M07D7W
	15 MHz	QPSK	1857.5 - 1907.5	13.5426	5.44	26.303	14.20	13M5G7W
		16QAM	1857.5 - 1907.5	5.4232	5.85	22.029	13.43	5M42D7W
	20 MHz	QPSK	1860 - 1905	18.0093	5.20	26.303	14.20	18M0G7W
		16QAM	1860 - 1905	5.5979	5.80	23.550	13.72	5M60D7W

EUT Overview


FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 3 of 131

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.

Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	OBW [MHz]	PAR at 0.1% [dB]	EIRP		Emission Designator
						Max. Power [mW]	Max. Power [dBm]	
NR Band n2	5 MHz	$\pi/2$ BPSK	1852.5 - 1907.5	4.4933	4.32	26.303	14.20	4M49G7W
		QPSK	1852.5 - 1907.5	4.4873	5.28	26.242	14.19	4M49G7W
		16QAM	1852.5 - 1907.5	4.4535	5.96	20.941	13.21	4M45D7W
		64QAM	1852.5 - 1907.5	4.4686	6.43	16.482	12.17	4M47D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1905	8.9885	4.28	26.303	14.20	8M99G7W
		QPSK	1855 - 1905	9.3145	5.45	26.303	14.20	9M31G7W
		16QAM	1855 - 1905	9.3169	6.11	20.893	13.20	9M32D7W
		64QAM	1855 - 1905	9.3431	6.38	16.711	12.23	9M34D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1902.5	13.4740	4.21	26.303	14.20	13M5G7W
		QPSK	1857.5 - 1902.5	14.1040	5.31	26.303	14.20	14M1G7W
		16QAM	1857.5 - 1902.5	14.1370	6.08	20.417	13.10	14M1D7W
		64QAM	1857.5 - 1902.5	14.1150	6.16	16.634	12.21	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1900	17.8100	4.23	25.882	14.13	17M8G7W
		QPSK	1860 - 1900	18.9870	5.28	26.303	14.20	19M0G7W
		16QAM	1860 - 1900	18.9950	5.94	20.941	13.21	19M0D7W
		64QAM	1860 - 1900	18.9210	6.44	16.596	12.20	18M9D7W
NR Band n25	5 MHz	$\pi/2$ BPSK	1852.5 - 1912.5	4.4933	4.33	25.351	14.04	4M49G7W
		QPSK	1852.5 - 1912.5	4.4873	5.29	26.303	14.20	4M49G7W
		16QAM	1852.5 - 1912.5	4.4535	5.97	20.845	13.19	4M45D7W
		64QAM	1852.5 - 1912.5	4.4686	6.42	16.482	12.17	4M47D7W
	10 MHz	$\pi/2$ BPSK	1855 - 1910	8.9885	4.25	26.303	14.20	8M99G7W
		QPSK	1855 - 1910	9.3145	5.48	26.182	14.18	9M31G7W
		16QAM	1855 - 1910	9.3169	6.12	20.845	13.19	9M32D7W
		64QAM	1855 - 1910	9.3431	6.37	16.482	12.17	9M34D7W
	15 MHz	$\pi/2$ BPSK	1857.5 - 1907.5	13.4740	4.14	26.303	14.20	13M5G7W
		QPSK	1857.5 - 1907.5	14.1040	5.25	26.242	14.19	14M1G7W
		16QAM	1857.5 - 1907.5	14.1370	6.07	20.324	13.08	14M1D7W
		64QAM	1857.5 - 1907.5	14.1150	6.16	16.218	12.10	14M1D7W
	20 MHz	$\pi/2$ BPSK	1860 - 1905	17.8100	4.12	25.823	14.12	17M8G7W
		QPSK	1860 - 1905	18.9870	5.23	26.303	14.20	19M0G7W
		16QAM	1860 - 1905	18.9950	5.95	20.989	13.22	19M0D7W
		64QAM	1860 - 1905	18.9210	6.47	16.711	12.23	18M9D7W

EUT Overview

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 4 of 131

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.

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.


1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Agreements (MRAs).

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 5 of 131

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.

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Watch FCC ID:BCG-A3335**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 24.

Test Device Serial No.: MC7DP4YMHF, PTQKY2MRPK, MW77GPK6KL, DLCHFZ000GE0000Q4C

2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 5G NR (FR1), 802.11b/g/n WLAN, 802.11a/n UNII, 802.15.4ab-NB, Bluetooth (1x, EDR, HDR4, HDR8, LE1M, LE2M), NFC, UWB, 60.5GHz Transmitter.

This device supports simultaneous transmission operations, which allows for multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.


Simultaneous Tx Config	Antenna FCM					
	WLAN	Bluetooth	802.15.4ab - NB	LTE/FR1	UNII	UWB
	802.11 b/g/n	BDR, EDR, HDR4/8, LE1/2M	O-QPSK	Mid/High Band	802.11 a/n	Ch.5/Ch.9
Config 1	✓	✗	✗	✓	✗	✓
Config 2	✗	✓	✗	✓	✗	✓
Config 3	✗	✓	✓	✓	✗	✗
Config 4	✓	✗	✓	✓	✗	✗
Config 5	✗	✓	✗	✓	✓	✗
Config 6	✗	✓	✗	✓	✗	✓
Config 7	✓	✗	✗	✓	✗	✗
Config 8	✓	✗	✓	✗	✗	✗
Config 9	✓	✗	✗	✗	✗	✓
Config 10	✗	✓	✗	✗	✓	✗
Config 11	✗	✓	✗	✓	✗	✗
Config 12	✗	✓	✓	✗	✗	✗
Config 13	✗	✓	✗	✗	✗	✓
Config 14	✗	✗	✓	✓	✗	✗
Config 15	✗	✗	✗	✓	✓	✗
Config 16	✗	✗	✗	✓	✗	✓

Table 2-1. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

Note:

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 5 and reported in RF Bluetooth, RF UNII, and RF FCC Part 27b test reports.

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch		Page 6 of 131

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.

2.3 Antenna Description

The following antenna gains provided by the manufacturer were used for testing.


Band	Antenna Gain [dBi]
	FCM
LTE Band 2/25	-11.0
NR Band n2/n25	

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

1	Apple Macbook	Model:	A1398	S/N:	FVFDHG8TP3XY
	w/AC/DC Adapter	Model:	A1435	S/N:	N/A
2	Apple USB-C cable	Model:	N/A	S/N:	N/A
	w/ Charging Dock	Model:	A3276	S/N:	DQ84112013F08V22Z
	w/ Cradle	Model:	N/A	S/N:	CYV4023011Y23SE01MP1F
3	Apple Magnetic Charger	Model:	A2515	S/N:	DLC313306ZQ1NR1A7
	Apple Magnetic Charger	Model:	A2879	S/N:	DLCH5T0012A00000WB
4	Pathfinder Davenport	Model:	920-15901-01	S/N:	DLCH64000270000QA0
	SiP Socket	Model:	P1 N22X B PF 159	S/N:	DLCH8J000H50000WXE
5	DC Power Supply	Model:	SPS3010	S/N:	N/A

Table 2-3. Test Support Equipment

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 7 of 131

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.

2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

The worst case configuration was investigated for all combinations of the two materials, aluminum, and titanium, and various types of wristbands, metal and non-metal wristbands. The EUT was also investigated with and without wireless charger. The worst case configuration found was used for all testing.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.


This device only supports 27RBs or less for LTE 16-QAM uplink.

2.6 Software and Firmware

The test was conducted with firmware version watchOS 26 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 8 of 131

V2.2 09/07/2023

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the documents titled “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015 and TIA-603-E-2016) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure.....None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

$$E_{[\text{dB}\mu\text{V/m}]} = \text{Measured amplitude level}_{[\text{dBm}]} + 107 + \text{Cable Loss}_{[\text{dB}]} + \text{Antenna Factor}_{[\text{dB/m}]}$$


And

$$\text{EIRP}_{[\text{dBm}]} = E_{[\text{dB}\mu\text{V/m}]} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was used while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 9 of 131


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.

4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Conducted Bench Top Measurements	2.07
Radiated Disturbance (<30MHz)	4.12
Radiated Disturbance (30MHz-1GHz)	4.85
Radiated Disturbance (1-18GHz)	5.08
Radiated Disturbance (>18GHz)	5.22

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 10 of 131

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.

5.0 TEST EQUIPMENT CALIBRATION DATA


Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent Technologies	N9030A	3Hz-26.5GHz PXA Signal Analyzer	10/31/2024	Annual	10/31/2025	MY55330128
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/24/2025	Annual	3/24/2026	T058601-02
ESPEC	SU-241	Tabletop Temperature Chamber	10/24/2024	Annual	10/24/2025	92009574
ETS-Lindgren	3117	Double Ridged Guide Antenna (1-18 GHz)	9/25/2024	Annual	9/25/2025	240109
Fairview Microwave	FMCA1975-36	30MHz-40GHz Conducted Cable *	6/17/2025	Annual	6/17/2026	-
Fairview Microwave	M2CP1122-10	30MHz-40GHz Conducted Coupler *	6/17/2025	Annual	6/17/2026	1946
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY57212015
MCL	BW-K10-2W44+	Attenuator *	6/17/2025	Annual	6/17/2026	-
Rohde & Schwarz	ESW44	EMI Test Receiver	10/17/2024	Annual	10/17/2025	101668
Rohde & Schwarz	FSV40	Signal Analyzer (10Hz-40GHz)	5/20/2025	Annual	5/20/2026	101619
Rohde & Schwarz	FSW67	Signal and Spectrum Analyzer (2Hz-67GHz)	1/7/2025	Annual	1/7/2026	101366
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/14/2024	Annual	8/14/2025	101648
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2025	161616
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/4/2025	Annual	3/4/2026	164715
Rohde & Schwarz	HFH2-22	Loop Antenna	5/12/2025	Annual	5/12/2026	100546
Rohde & Schwarz	HFH2-22	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	6/3/2025	Annual	6/3/2026	100052
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	11/15/2024	Annual	11/15/2025	102326
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	9/18/2024	Annual	9/18/2025	358

Table 5-1. Test Equipment

Notes:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
2. * denotes passive equipment that has been internally verified/calibrated.

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 11 of 131

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.

6.0 SAMPLE CALCULATIONS

Emission Designator

$\pi/2$ BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated


7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm $- (-24.80) = 50.3$ dBc.

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 12 of 131

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.

7.0 TEST RESULTS

7.1 Summary


Company Name: Apple Inc.
 FCC ID: BCG-A3335
 FCC Classification: PCS Licensed Transmitter Worn on Body (PCT)
 Mode(s): LTE/NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Occupied Bandwidth	2.1049	N/A	N/A	Section 7.2
	Conducted Band Edge / Spurious Emissions	2.1051, 24.238(a)	-13 dBm at Band Edge and for all out-of-band emissions	PASS	Sections 7.3, 7.4
	Peak-Average Ratio	24.232(d)	< 13 dB	PASS	Section 7.5
	Transmitter Conducted Output Power	2.1046	N/A	N/A	See RF Exposure Report
	Frequency Stability	2.1055, 24.235	Fundamental emissions stay within authorized frequency block over the temperature and voltage range as tested	PASS	Section 7.8
	Effective Radiated Power / Equivalent Isotropic Radiated Power	24.232(c)	< 2 Watts max. EIRP	PASS	Section 7.6
RADIATED	Radiated Spurious Emissions	2.1053, 24.238(a)	-13 dBm for all out-of-band emissions	PASS	Section 7.7

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna ports conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is Element EMC Software Tool v1.1.
5. For radiated spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.4.2.

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch		Page 13 of 131

V2.2 09/07/2023

7.2 Occupied Bandwidth

\$2.1049

Test Overview


The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 14 of 131

V2.2 09/07/2023

Test Setup

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

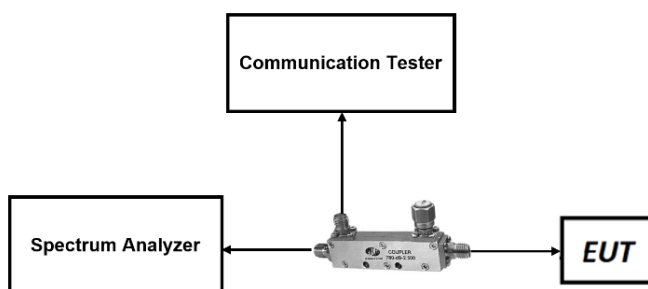


Figure 7-1. LTE Test Instrument & Measurement Setup

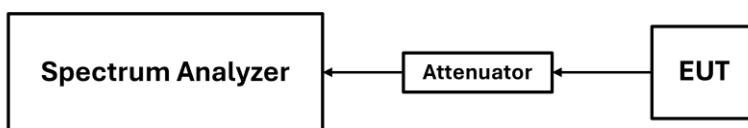



Figure 7-2. FR1 Test Instrument & Measurement Setup

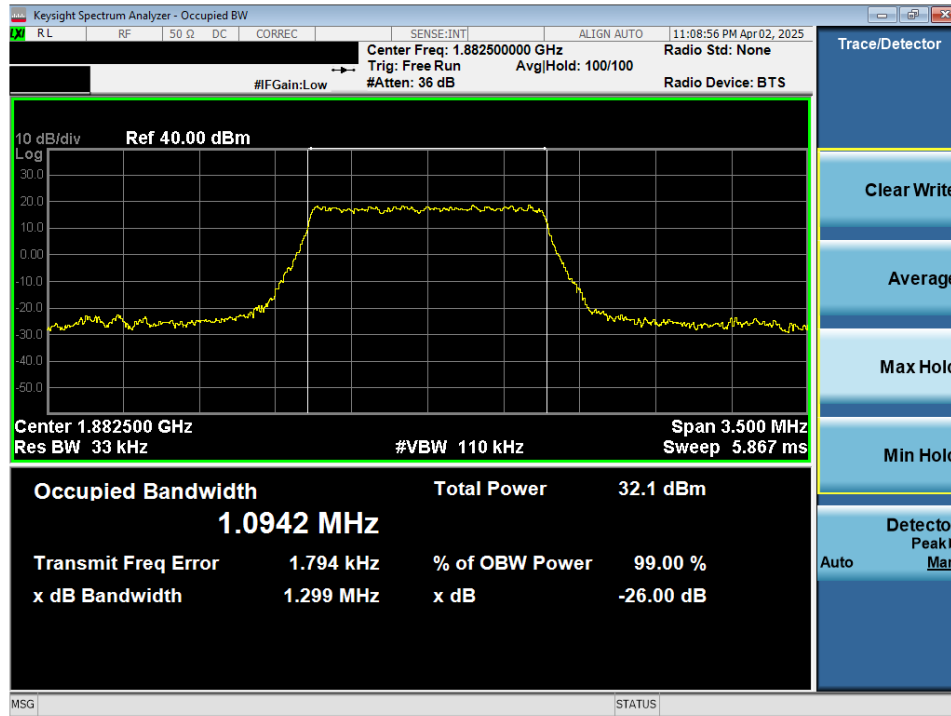
Test Notes

1. 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.

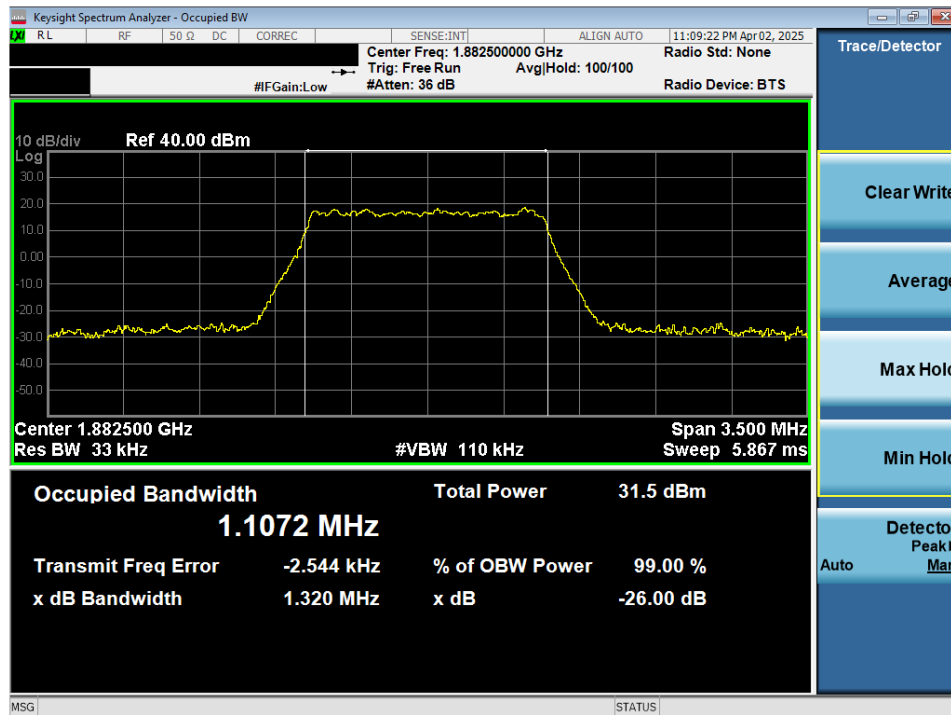
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 15 of 131

V2.2 09/07/2023


LTE Band 25/2



Plot 7-1. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

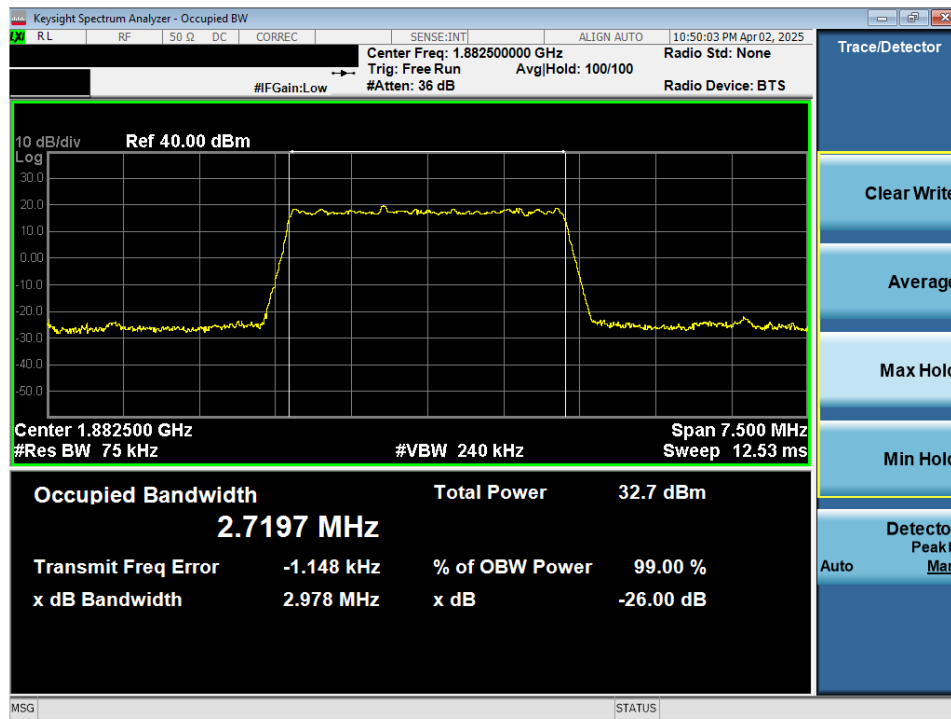


Plot 7-2. Occupied Bandwidth Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

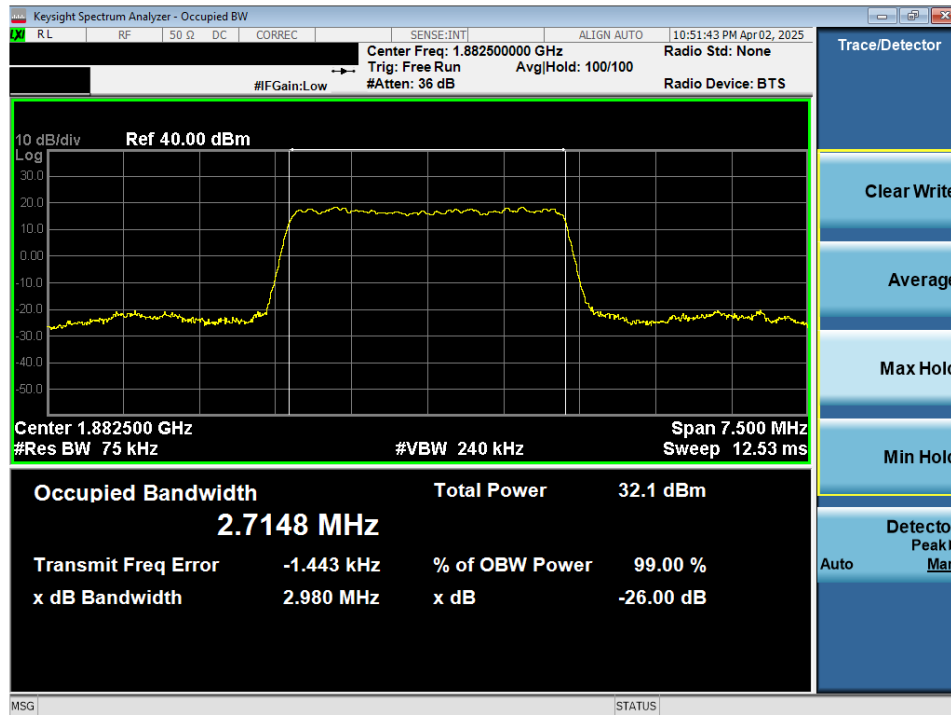
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 16 of 131

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 7-3. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)



Plot 7-4. Occupied Bandwidth Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 17 of 131

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 7-5. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

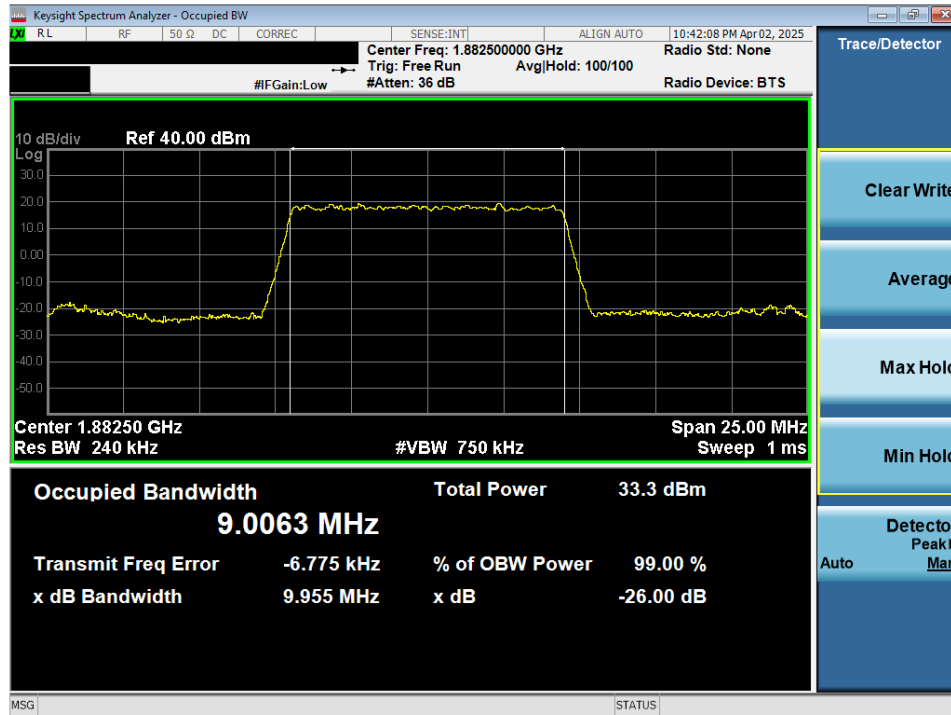


Plot 7-6. Occupied Bandwidth Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)

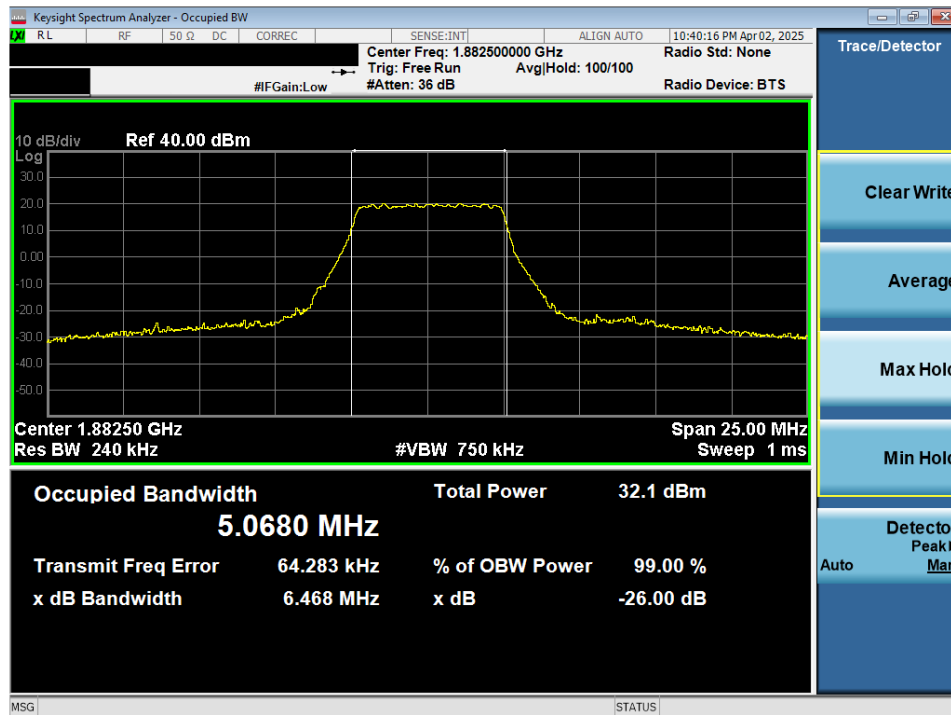
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 18 of 131

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 7-7. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

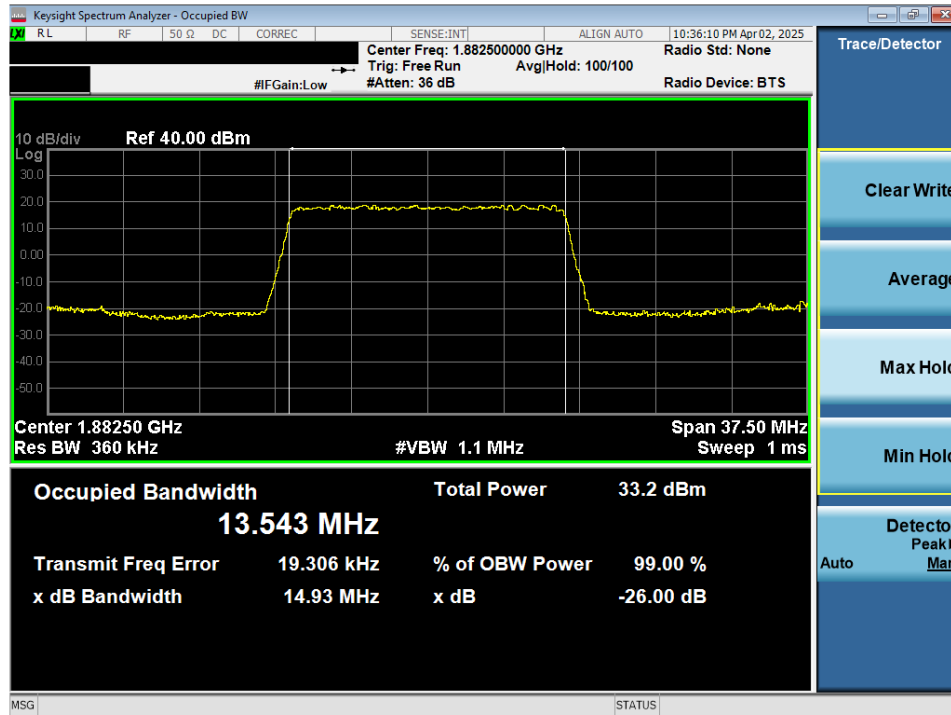


Plot 7-8. Occupied Bandwidth Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

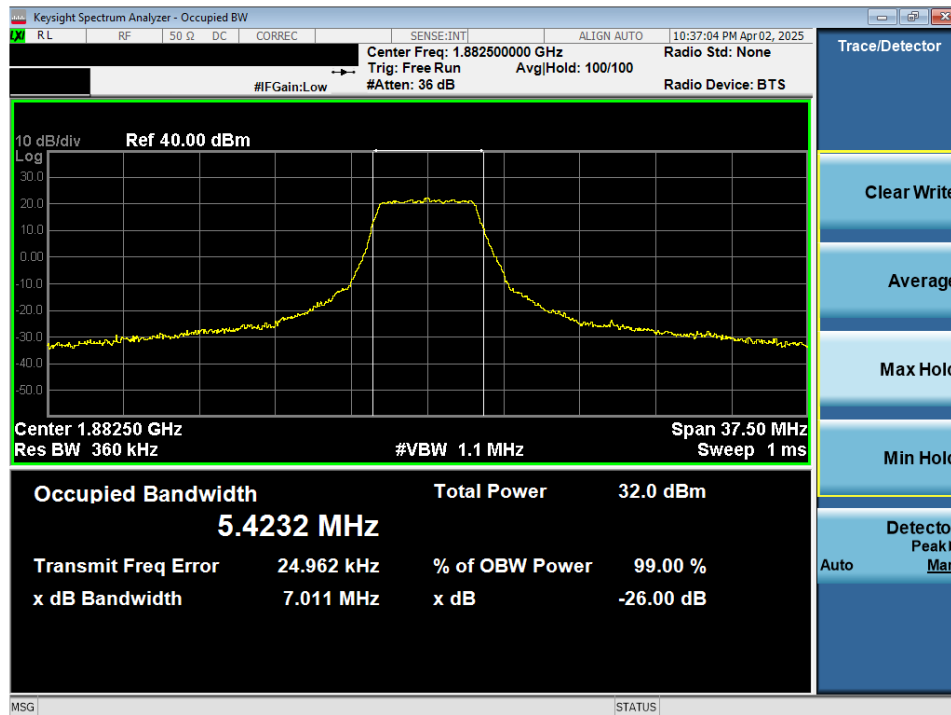
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 19 of 131

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 7-9. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

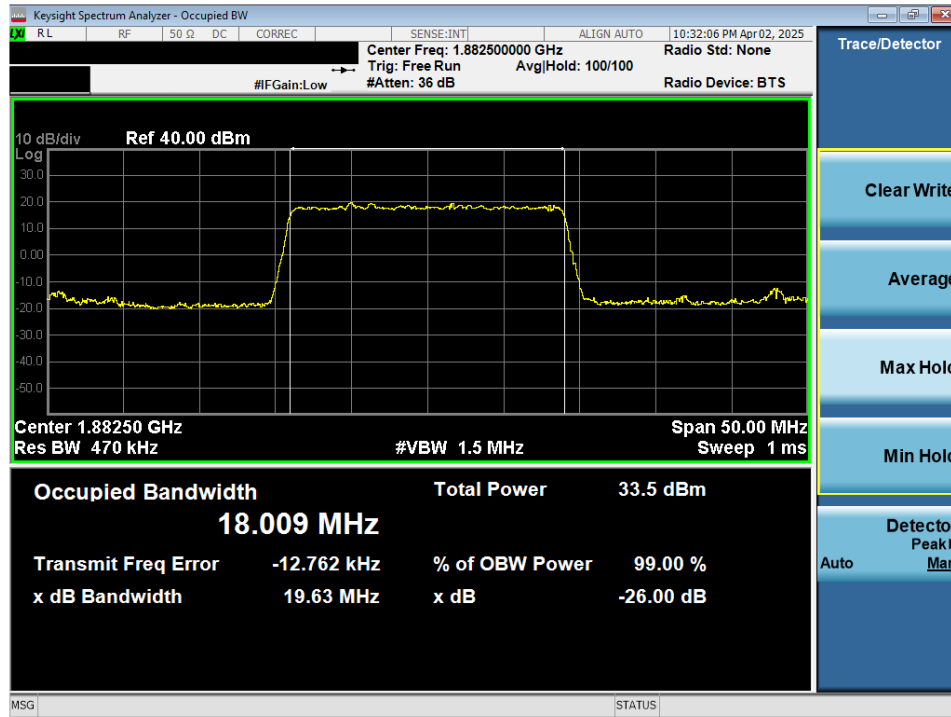


Plot 7-10. Occupied Bandwidth Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)

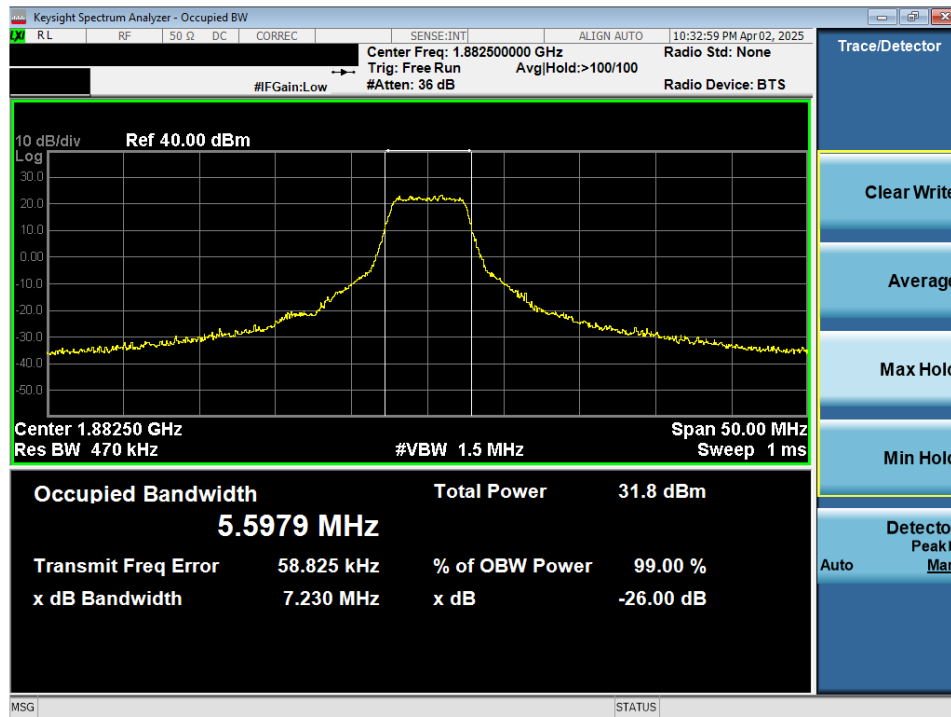
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 20 of 131

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 7-11. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)



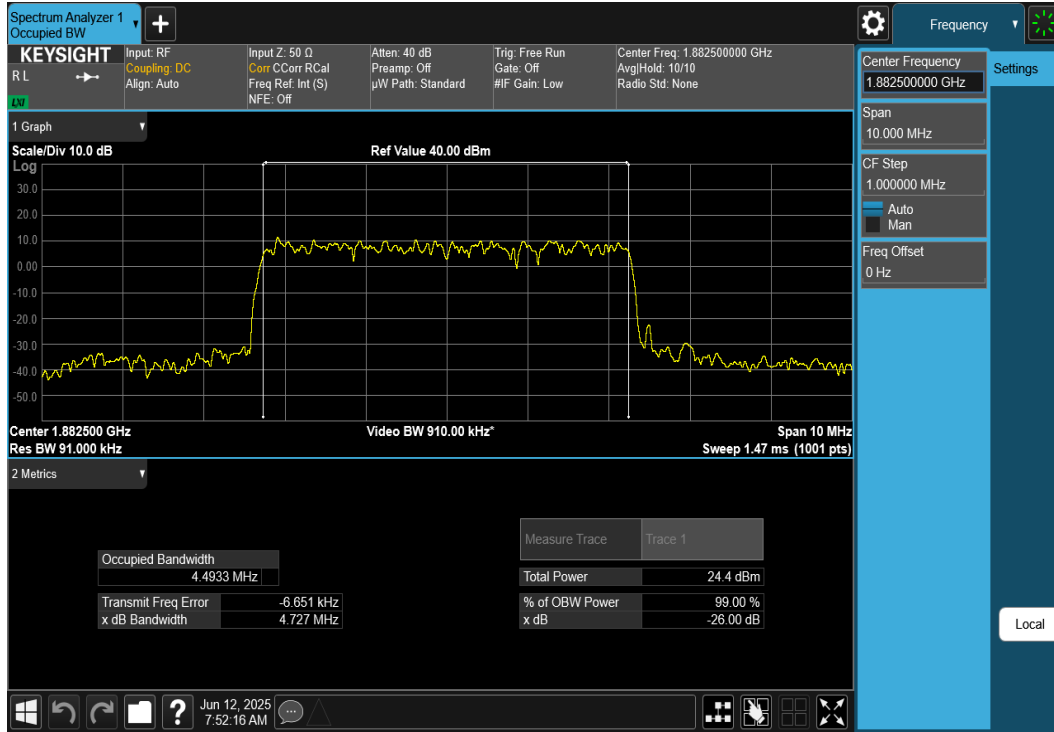
Plot 7-12. Occupied Bandwidth Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 21 of 131

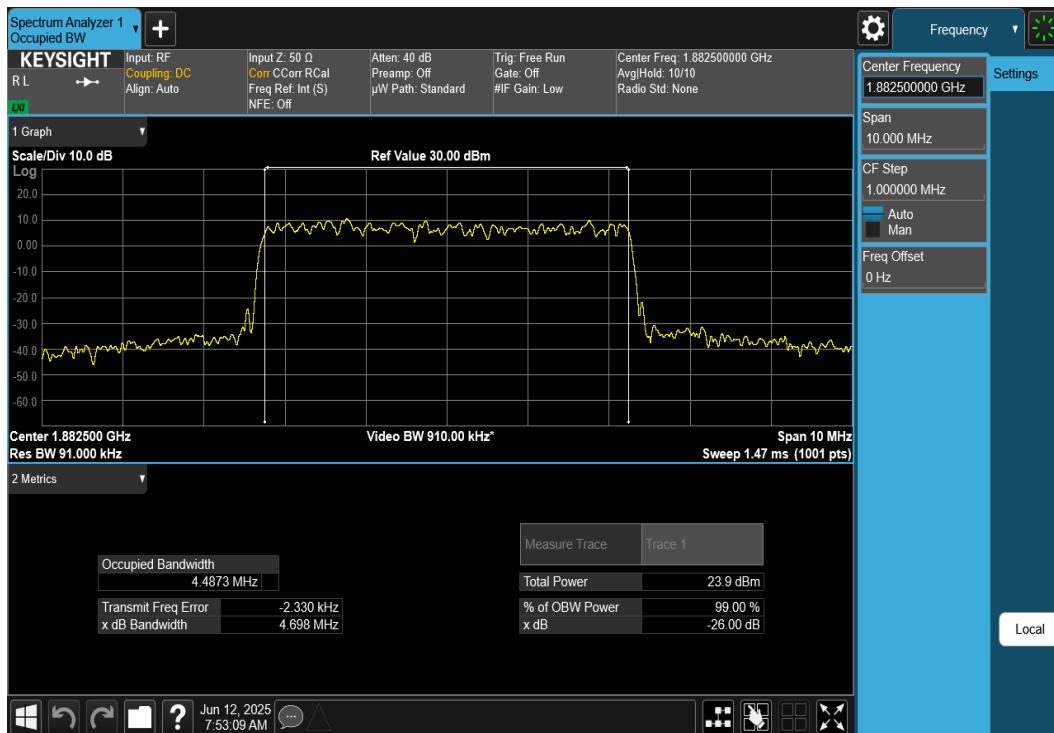
V2.2 09/07/2023

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 n25/n2



Plot 7-13. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

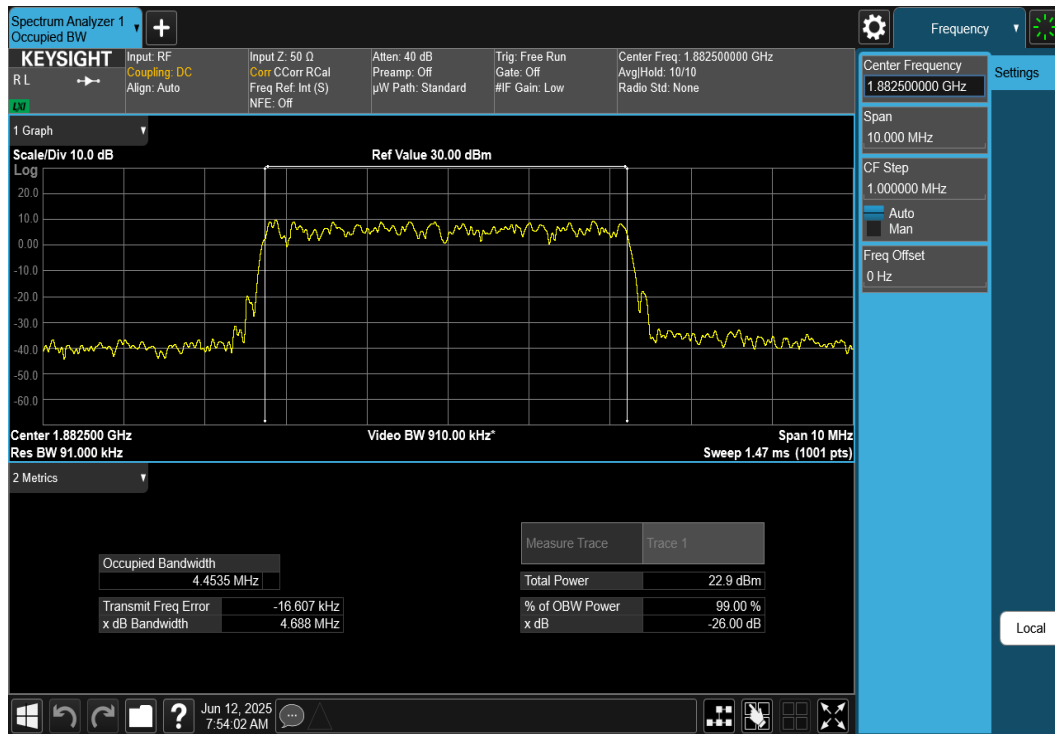


Plot 7-14. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM QPSK - Full RB)

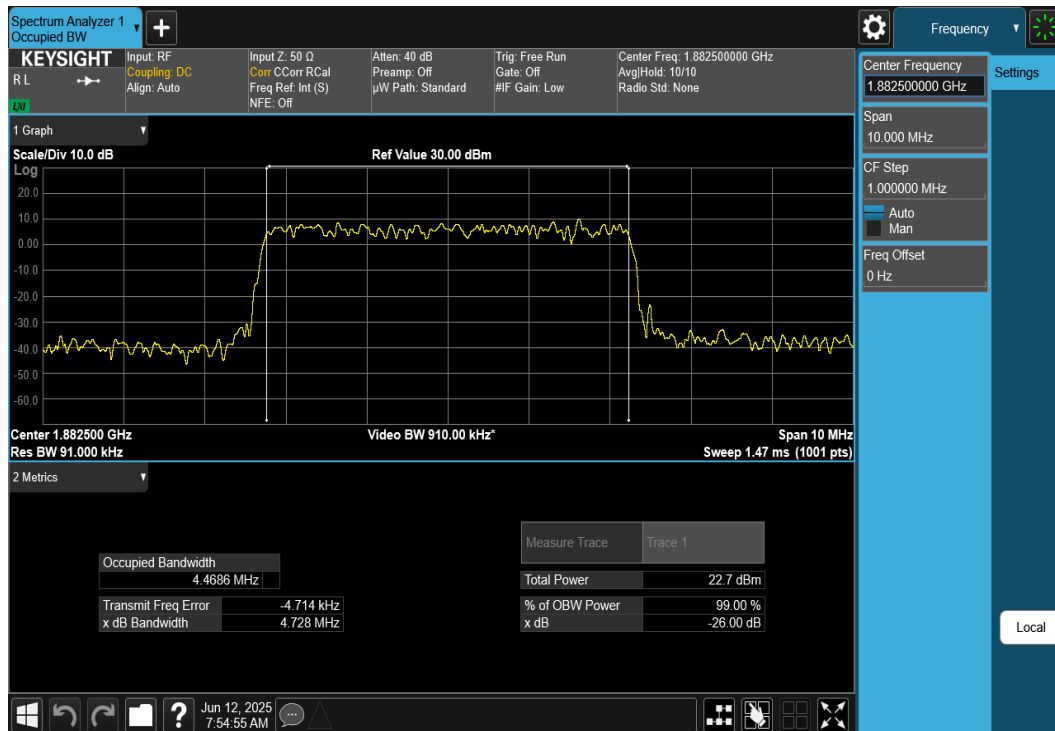
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 22 of 131

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 7-15. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM 16QAM - Full RB)

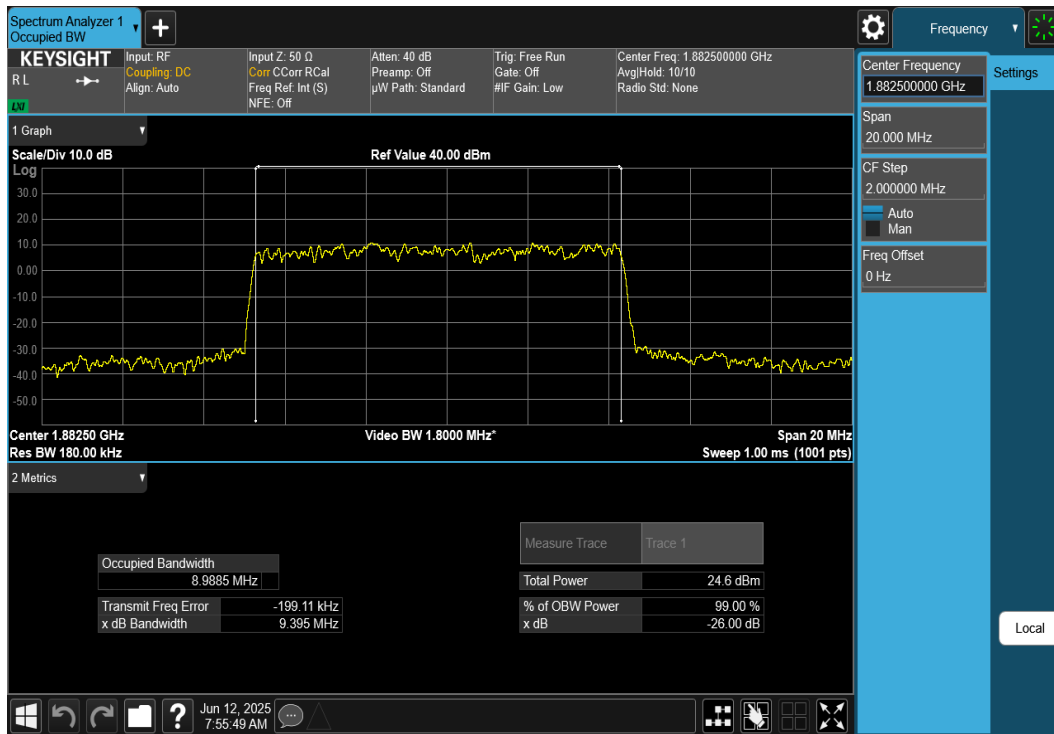


Plot 7-16. Occupied Bandwidth Plot (NR Band n25/n2 - 5MHz DFT-s-OFDM 64QAM - Full RB)

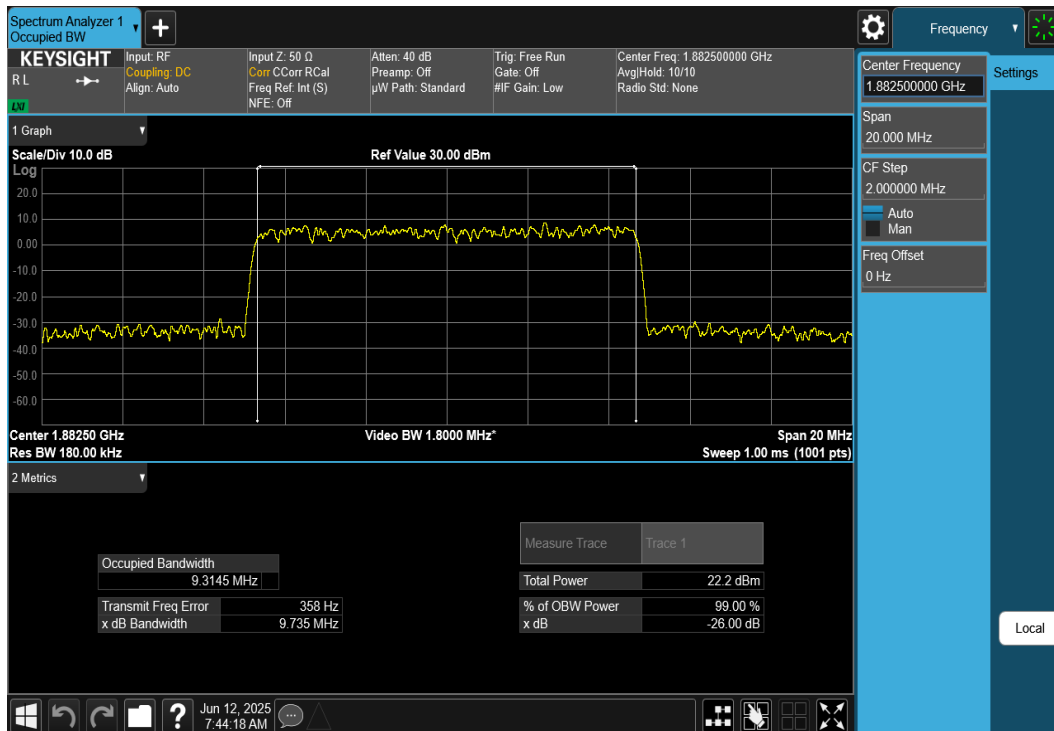
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 23 of 131

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 7-17. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

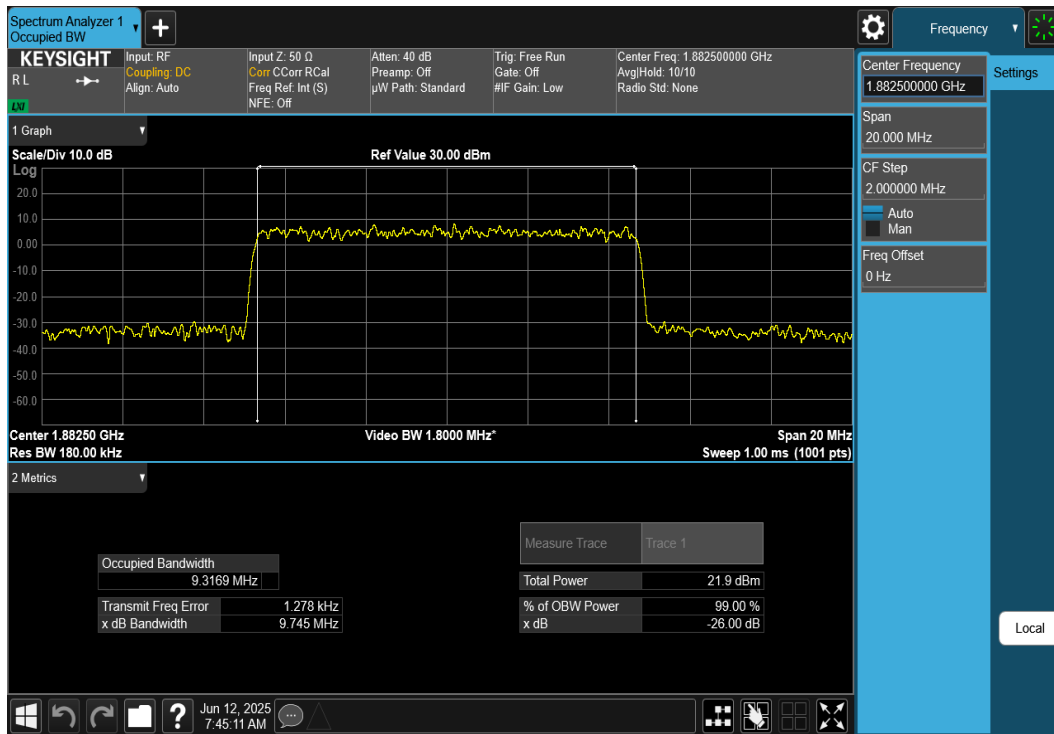


Plot 7-18. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM QPSK - Full RB)

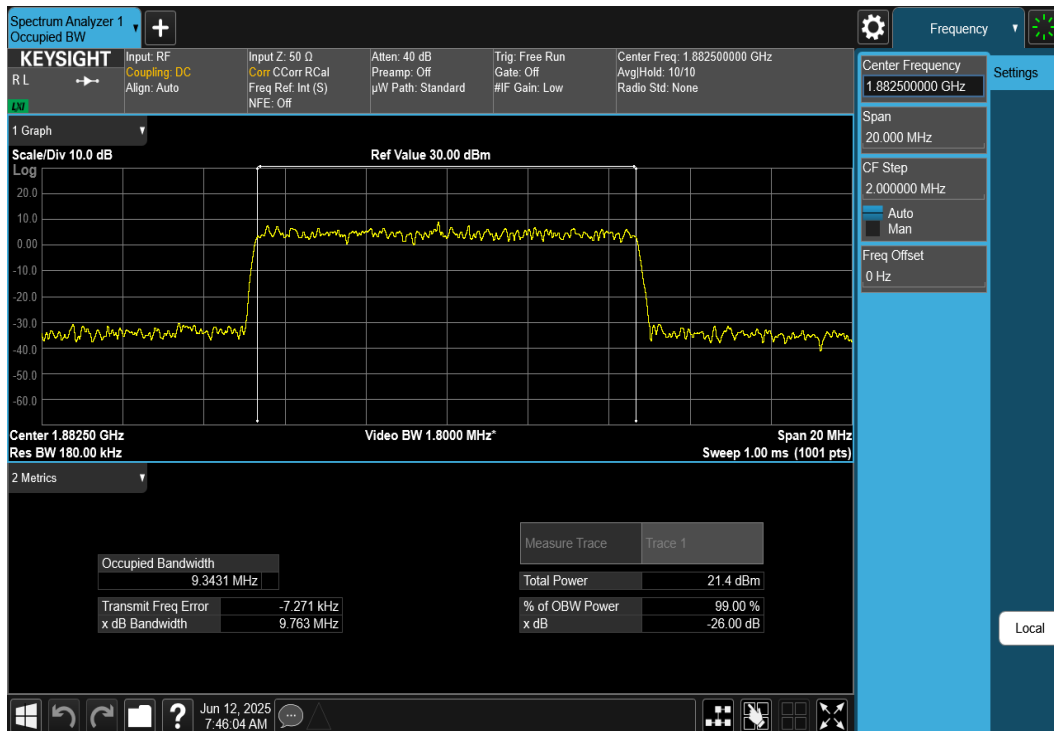
FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 24 of 131

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 7-19. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 16QAM - Full RB)

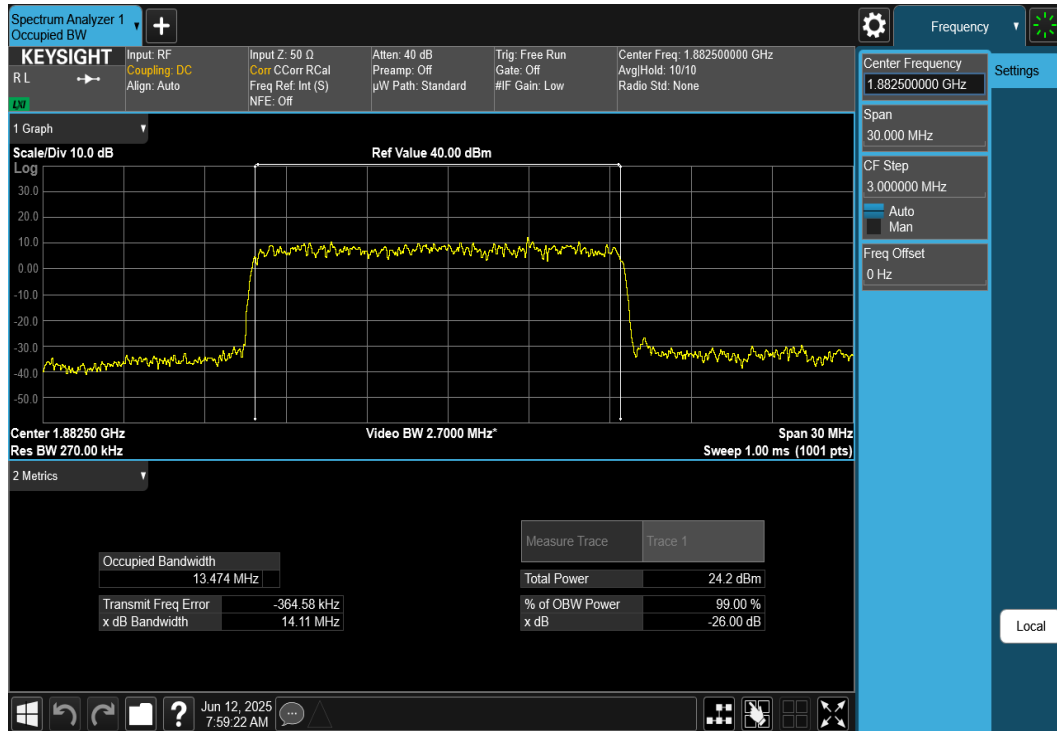


Plot 7-20. Occupied Bandwidth Plot (NR Band n25/n2 - 10MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 25 of 131

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 7-21. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

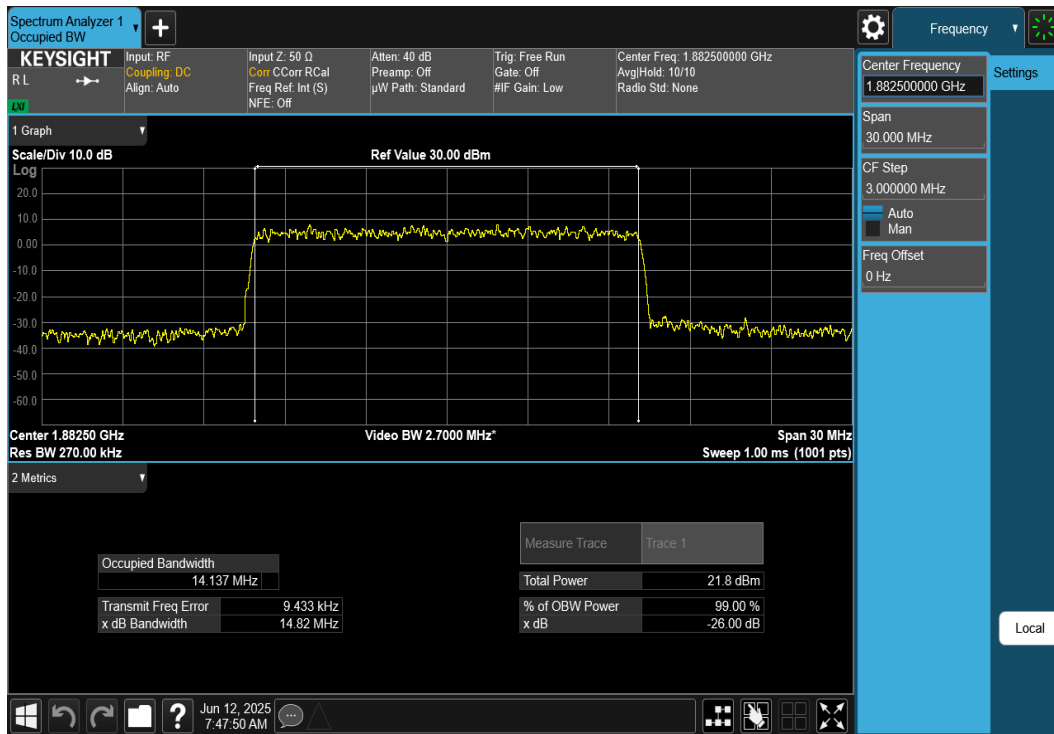


Plot 7-22. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM QPSK - Full RB)

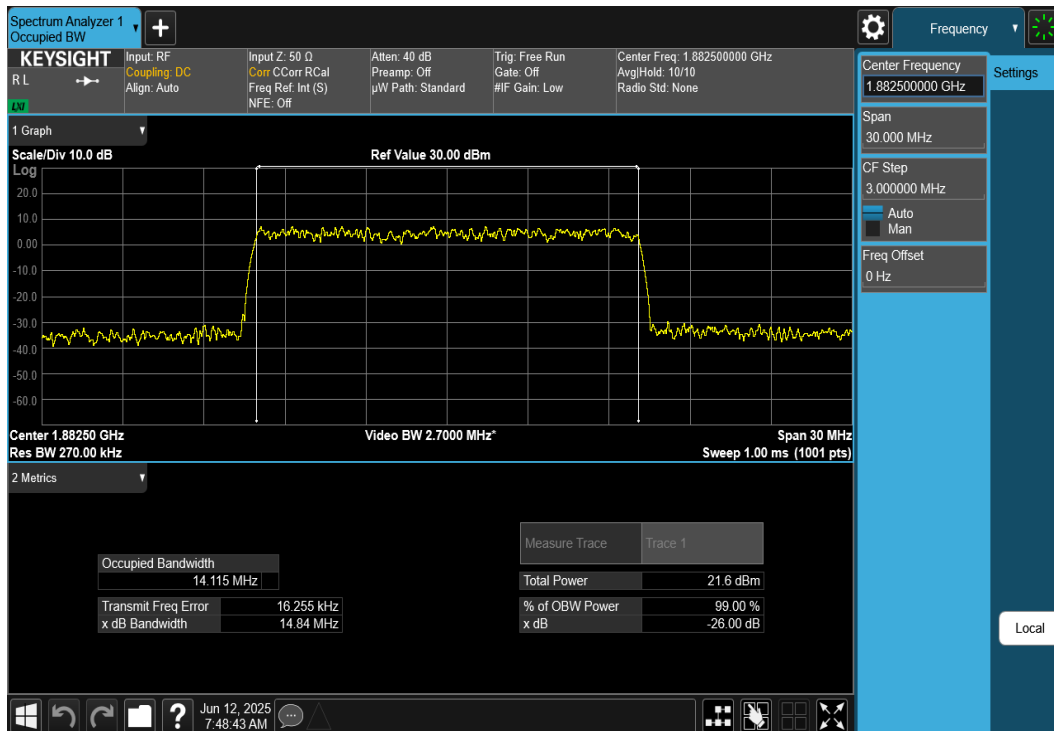
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 26 of 131

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 7-23. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 16QAM - Full RB)

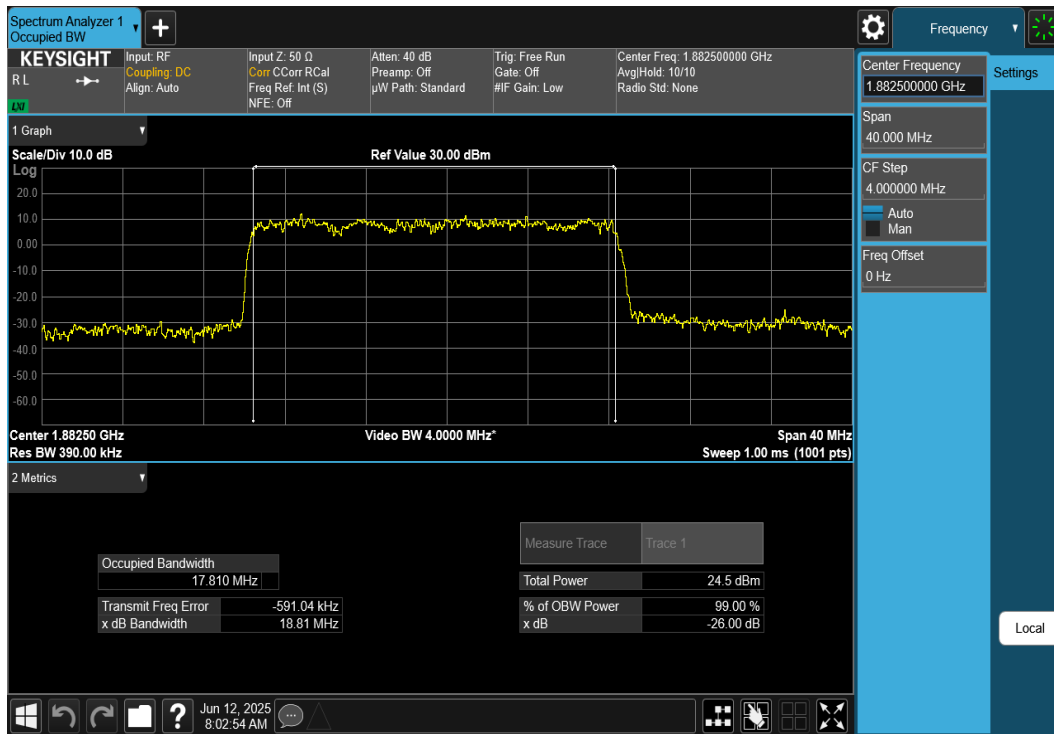


Plot 7-24. Occupied Bandwidth Plot (NR Band n25/n2 - 15MHz CP-OFDM 64QAM - Full RB)

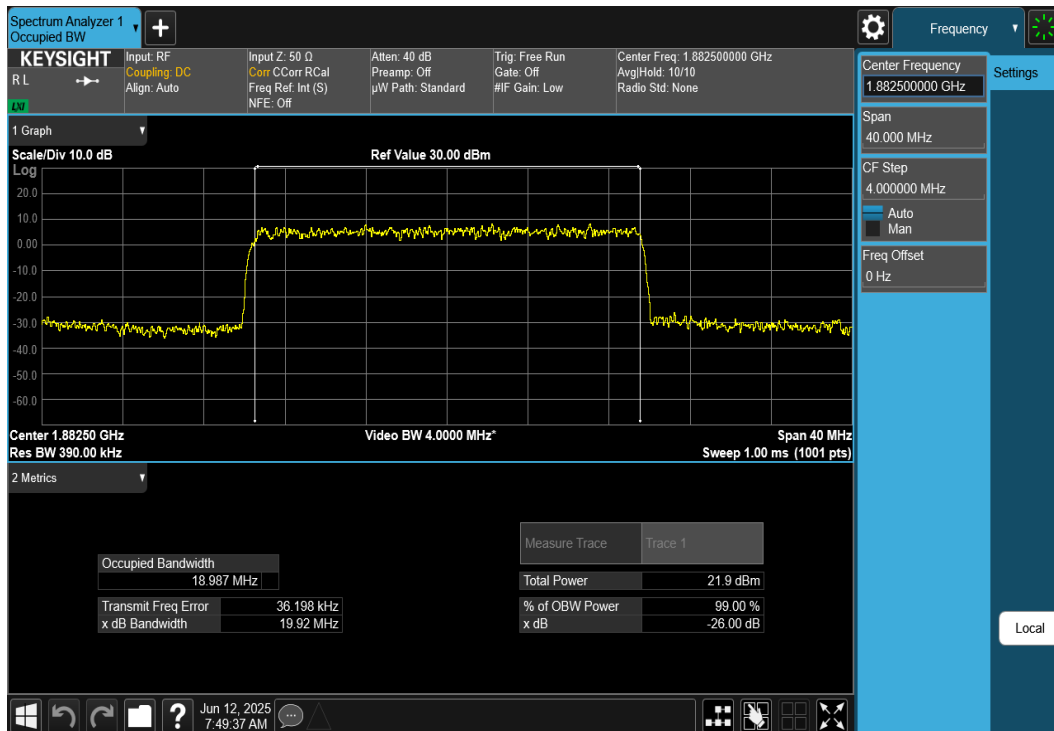
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 27 of 131

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 7-25. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

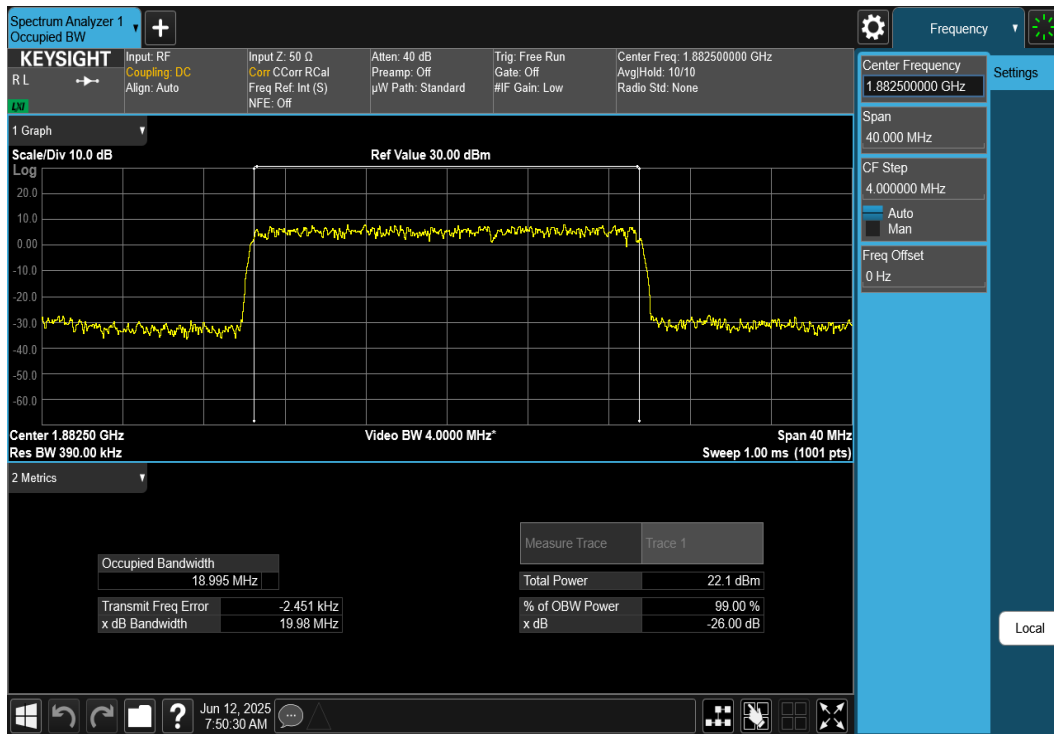


Plot 7-26. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM QPSK - Full RB)

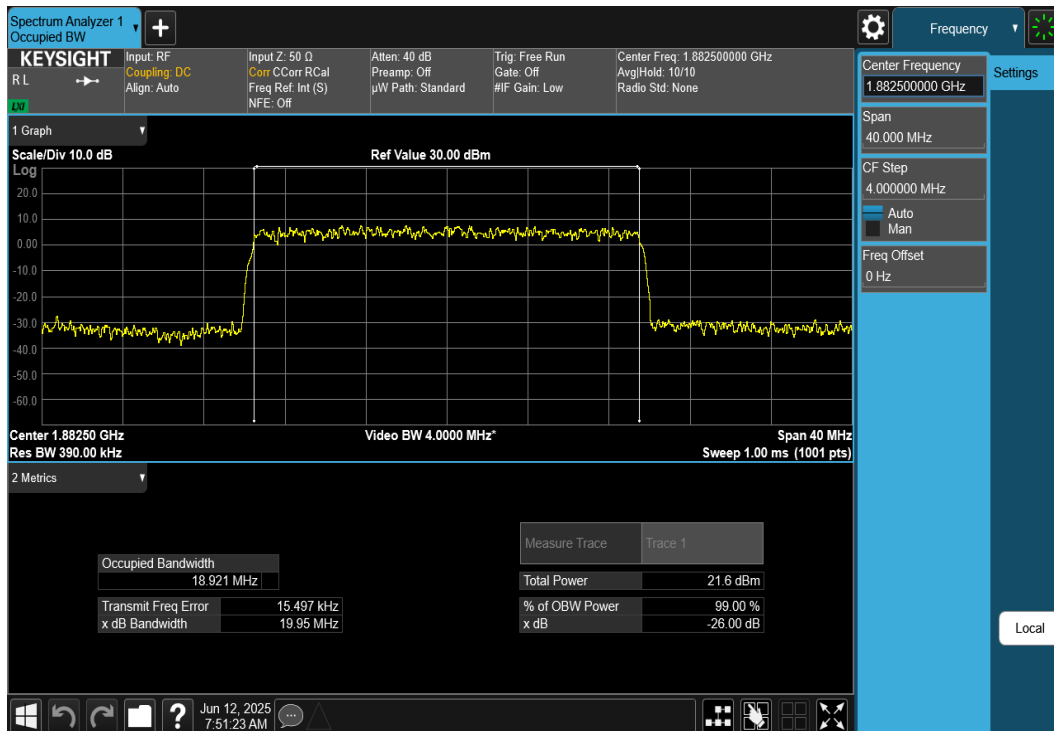
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 28 of 131

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 7-27. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 16QAM - Full RB)



Plot 7-28. Occupied Bandwidth Plot (NR Band n25/n2 - 20MHz CP-OFDM 64QAM - Full RB)

FCC ID: BCG-A3335	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 29 of 131

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.

7.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §24.238(a)

Test Overview and Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. 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 of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 20GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

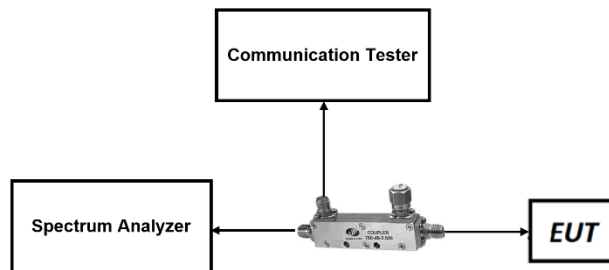


Figure 7-3. LTE Test Instrument & Measurement Setup

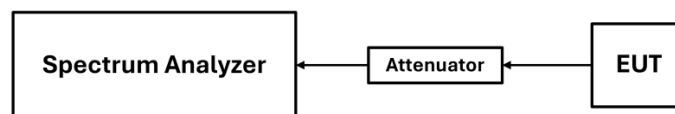




Figure 7-4. FR1 Test Instrument & Measurement Setup

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 30 of 131

V2.2 09/07/2023

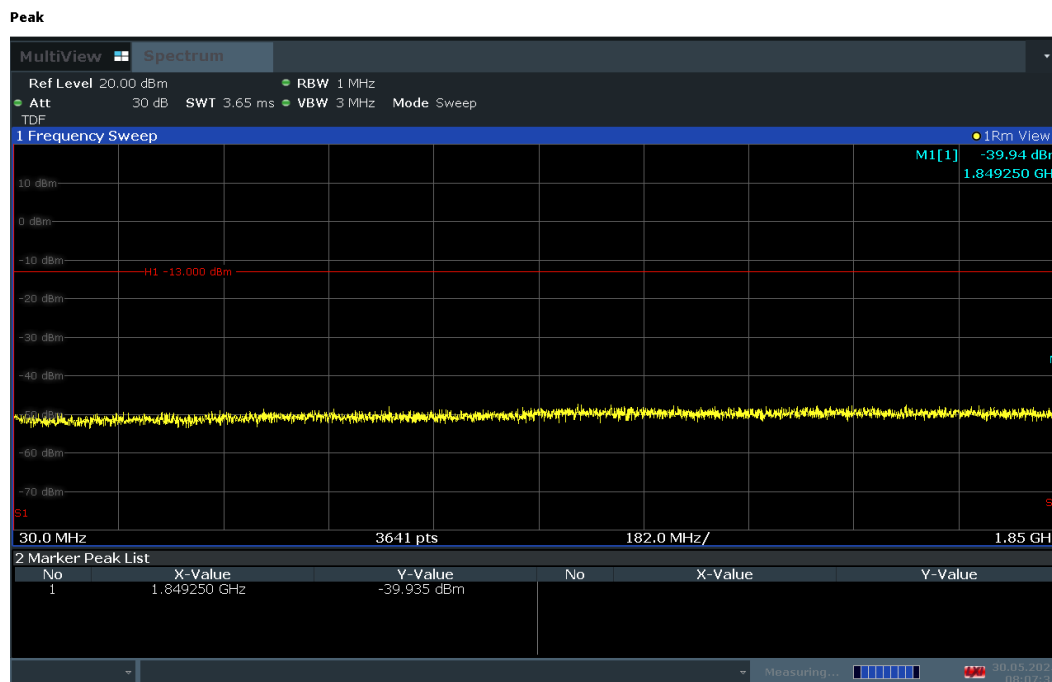
Test Notes

1. Per Part 24, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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 frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
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. NR band n25 overlaps the entire frequency range of NR band 2. Therefore, the conducted emissions data of NR band n25 provided in this report covers NR band n2.

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 31 of 131

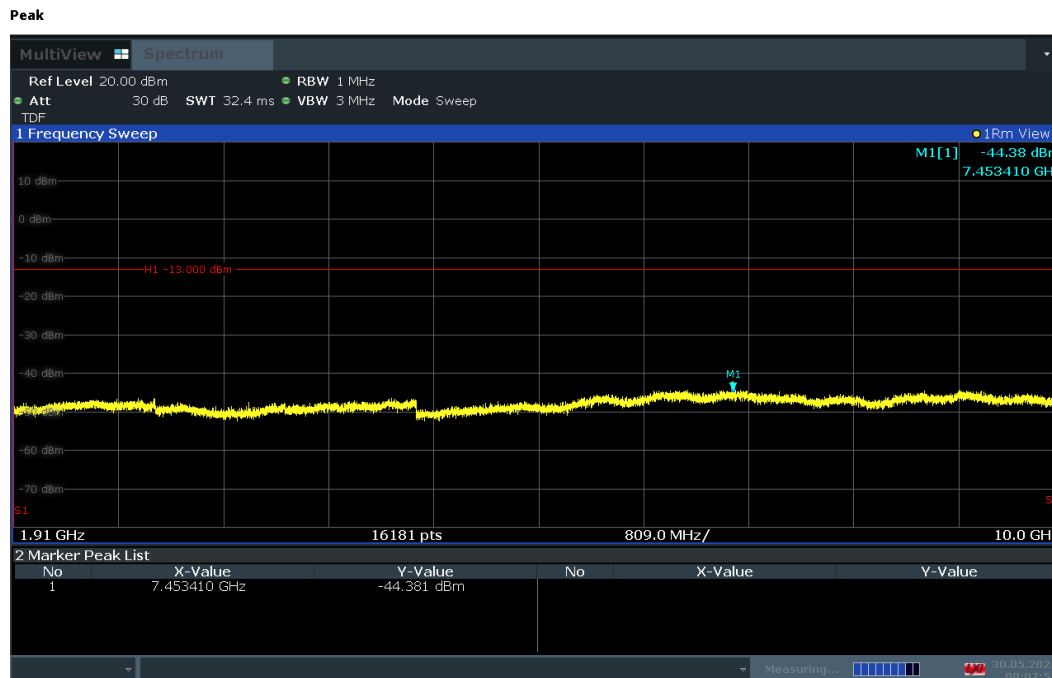
V2.2 09/07/2023

LTE Band 25/2




08:07:36 30.05.2025

Plot 7-29. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)



08:07:53 30.05.2025

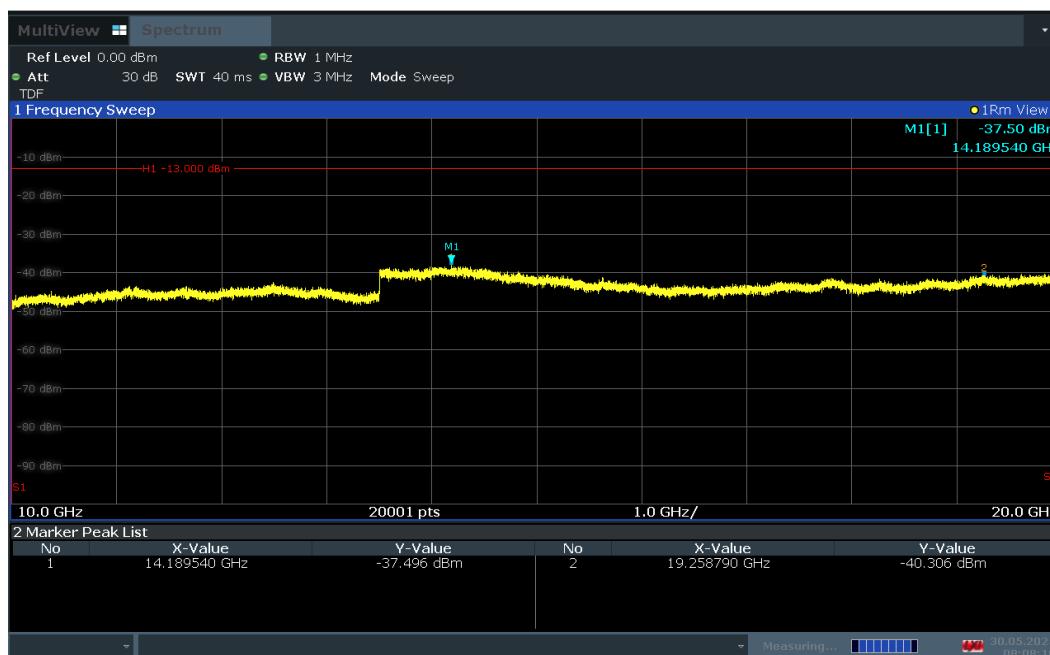
Plot 7-30. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 32 of 131

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.

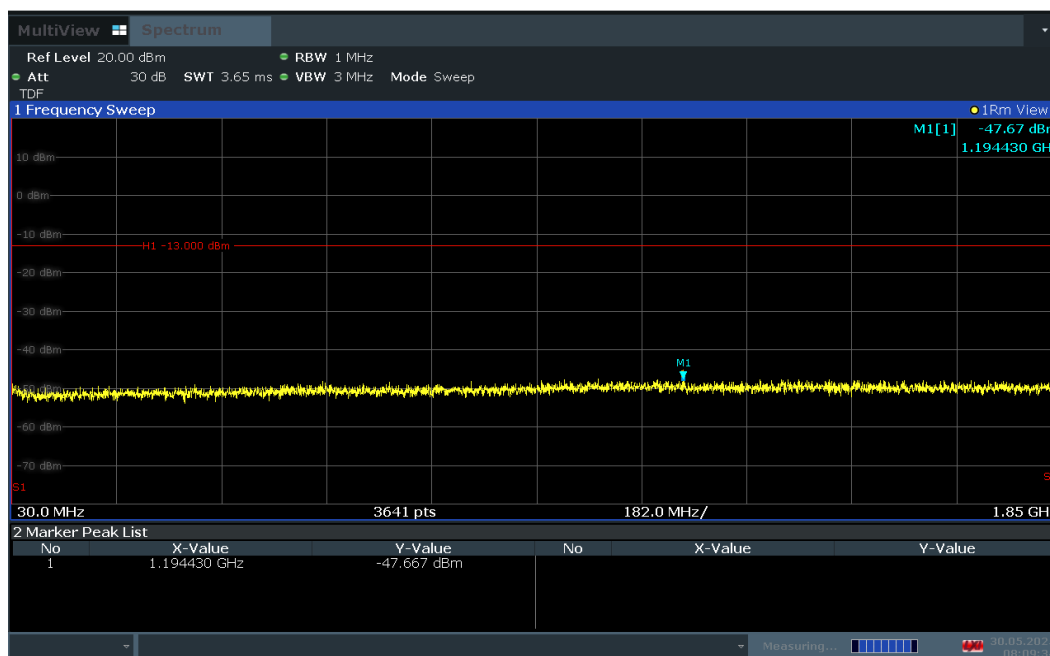
Peak



08:08:10 30.05.2025


Plot 7-31. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Low Channel)

Peak



08:09:34 30.05.2025

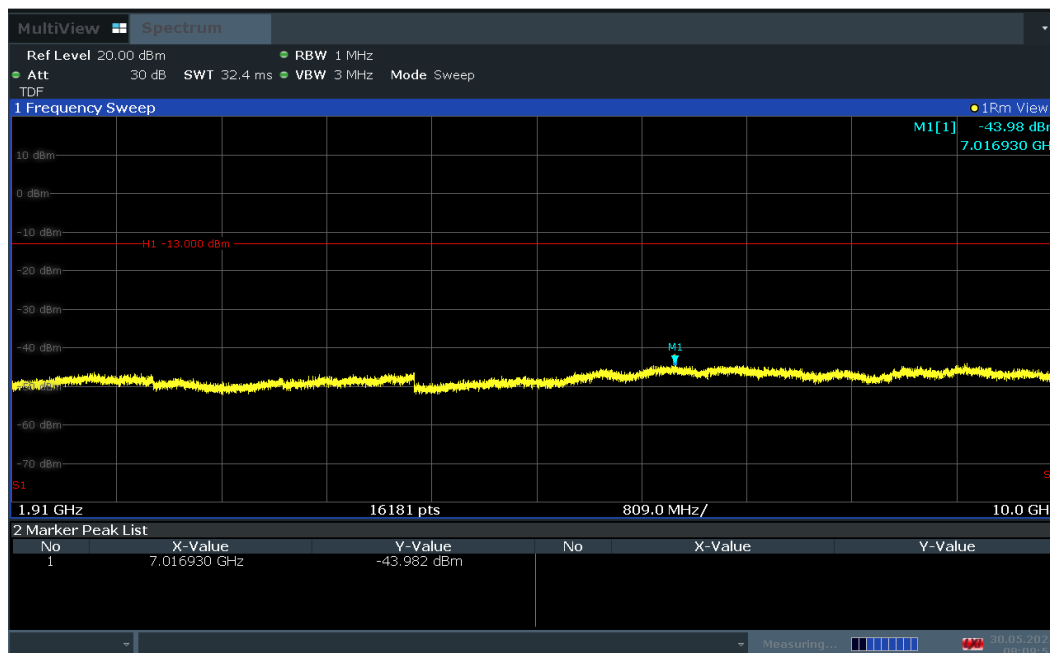
Plot 7-32. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 33 of 131

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.

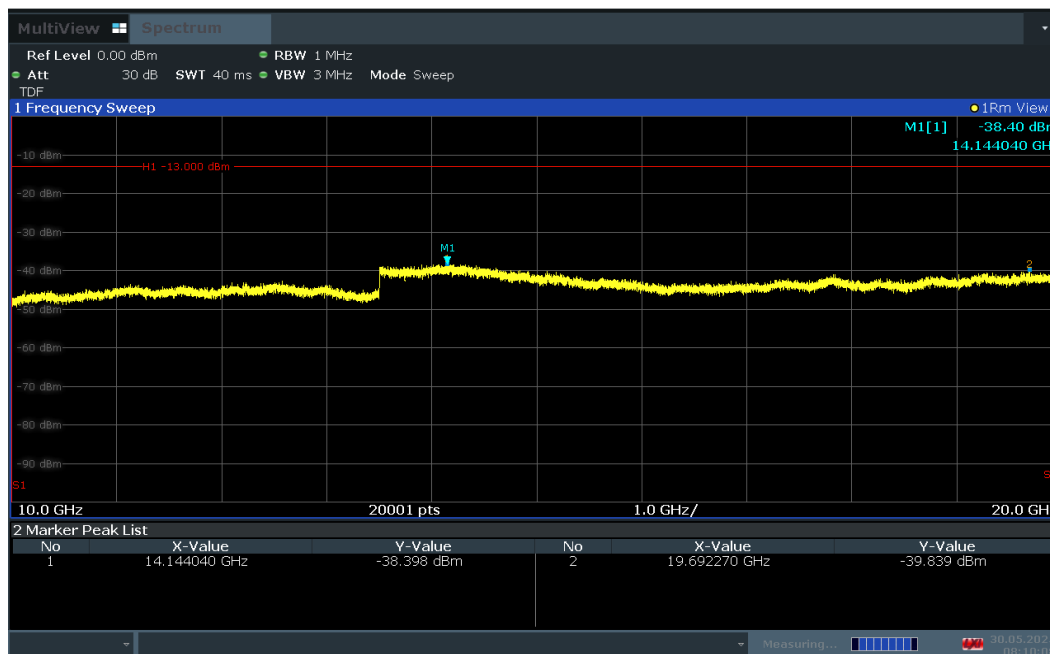
Peak



08:09:51 30.05.2025


Plot 7-33. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

Peak



08:10:09 30.05.2025

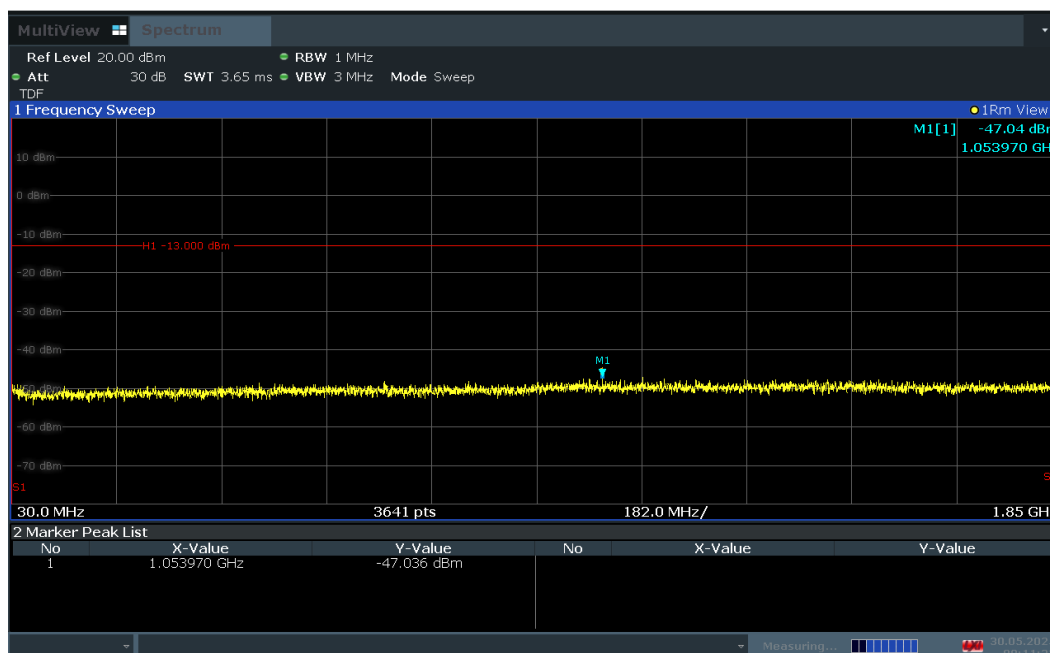
Plot 7-34. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - Mid Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 34 of 131

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.

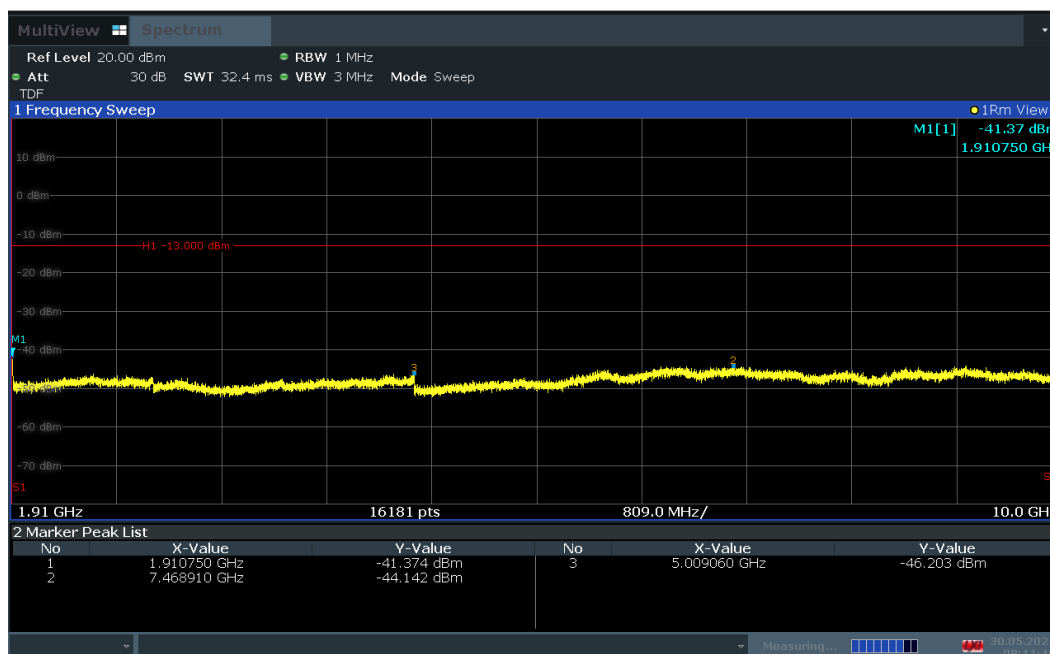
Peak



08:11:23 30.05.2025


Plot 7-35. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

Peak



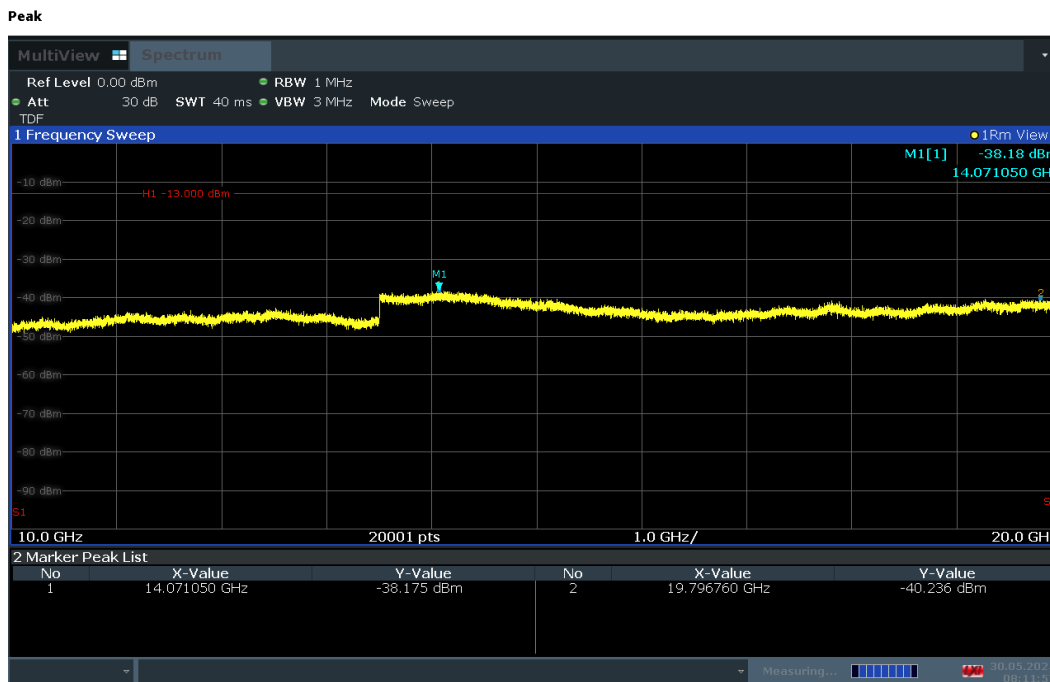
08:11:40 30.05.2025

Plot 7-36. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 35 of 131


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.



08:11:57 30.05.2025

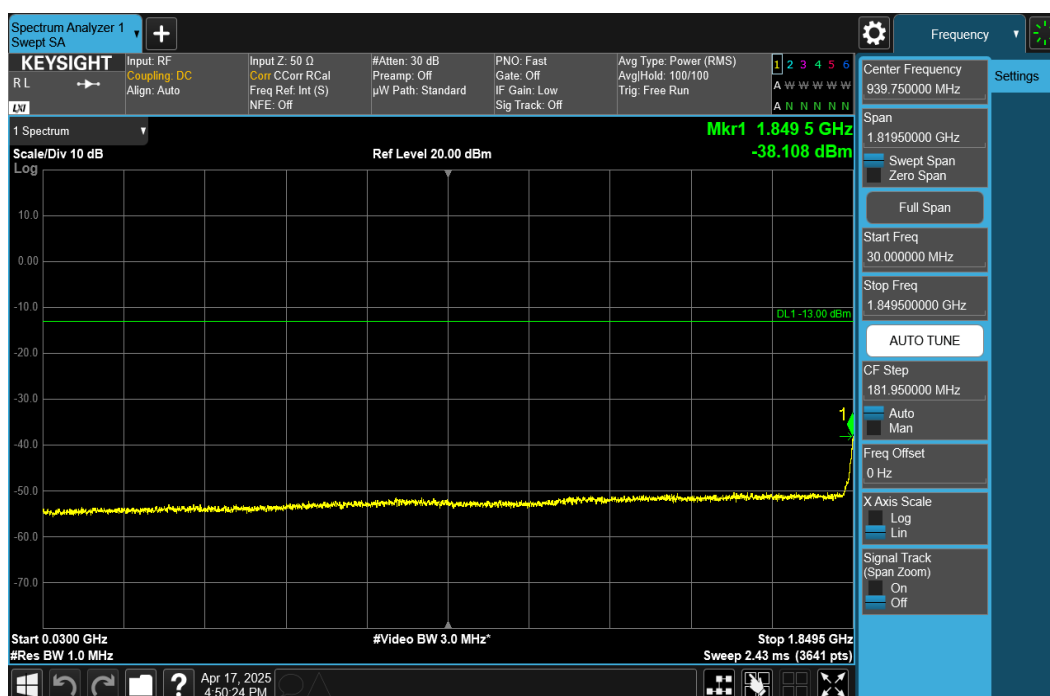
Plot 7-37. Conducted Spurious Plot (LTE Band 25/2 - 20MHz QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 36 of 131

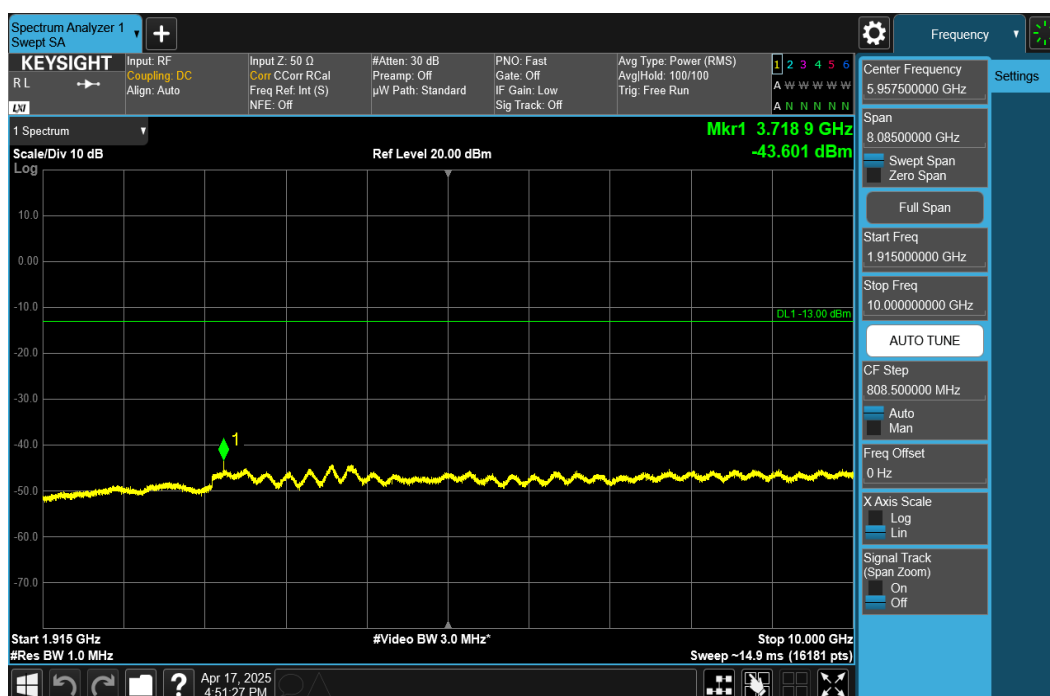
V2.2 09/07/2023

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 n25/n2



Plot 7-38. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

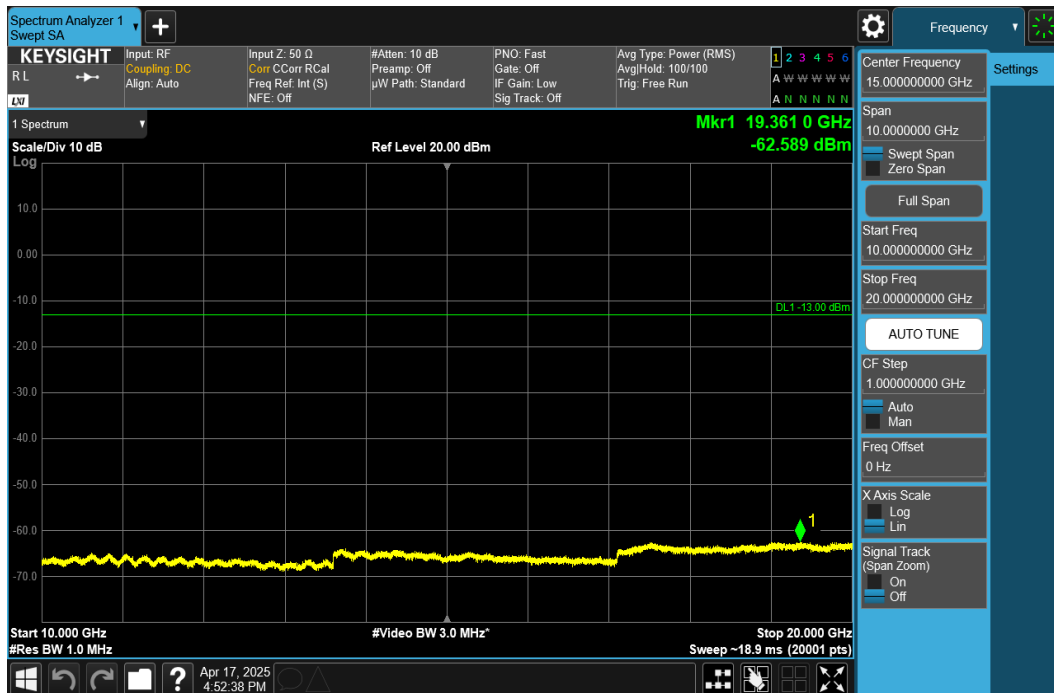


Plot 7-39. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

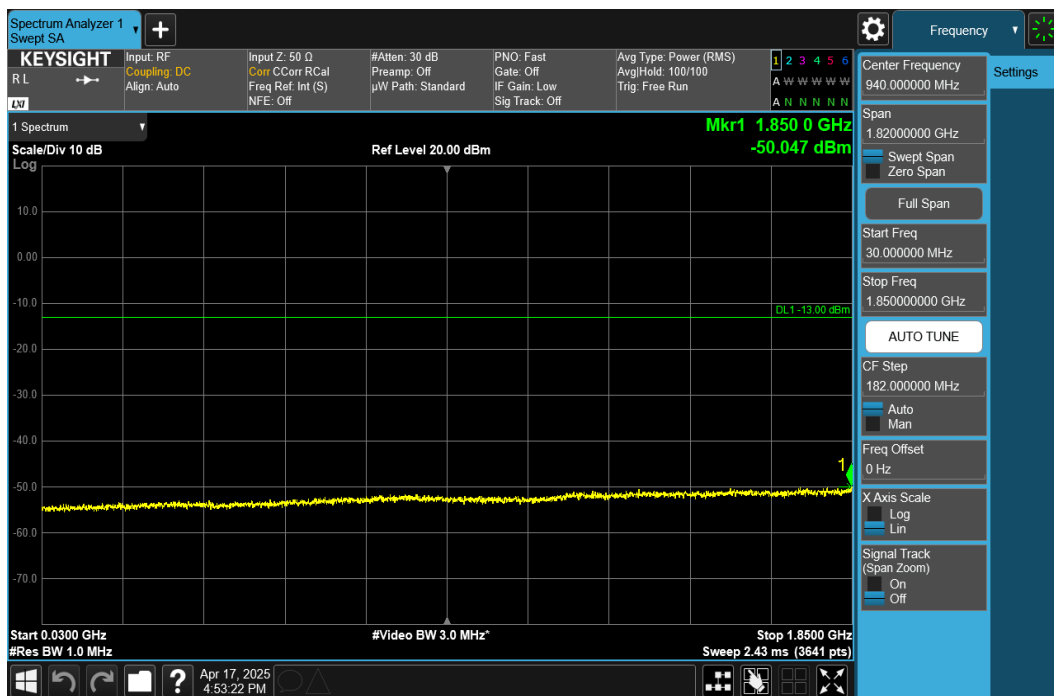
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 37 of 131

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 7-40. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Low Channel)

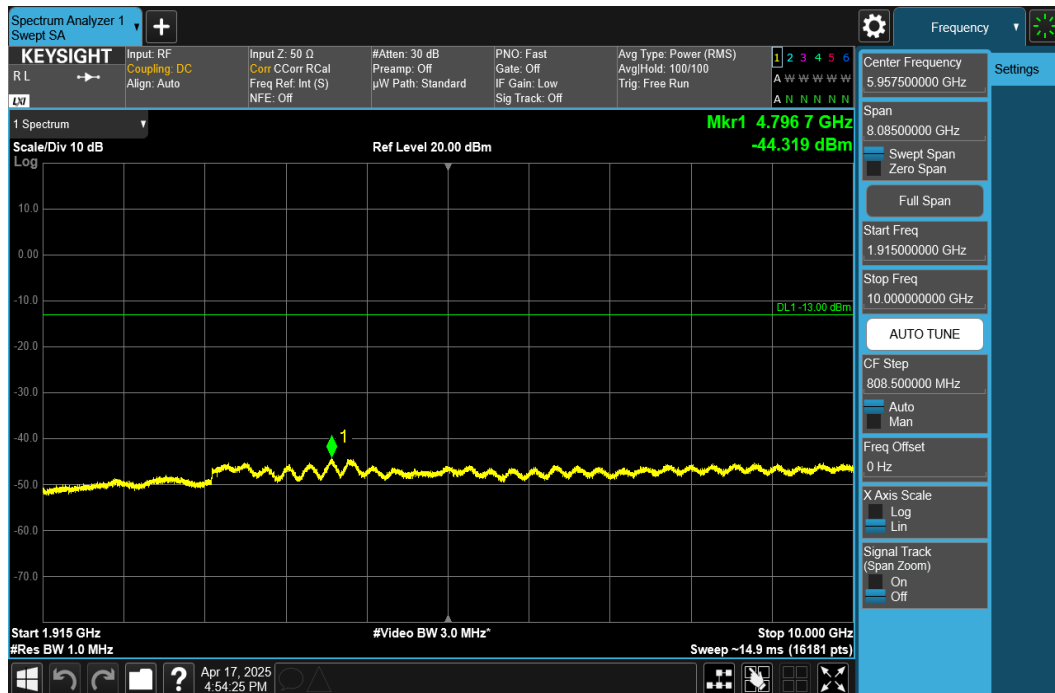


Plot 7-41. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

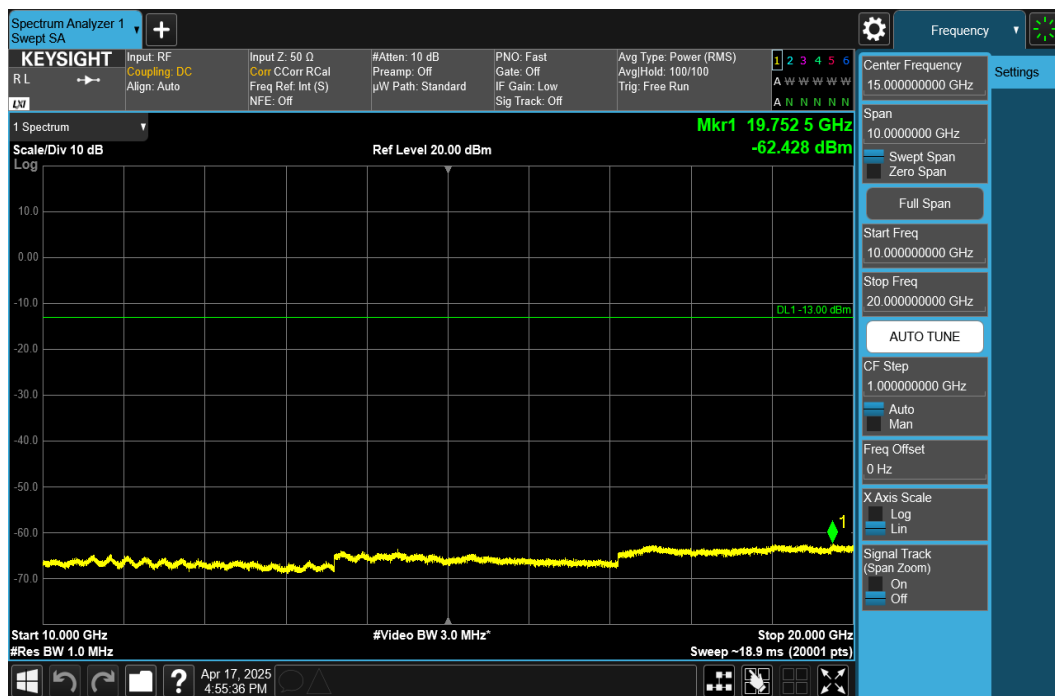
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 38 of 131

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 7-42. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

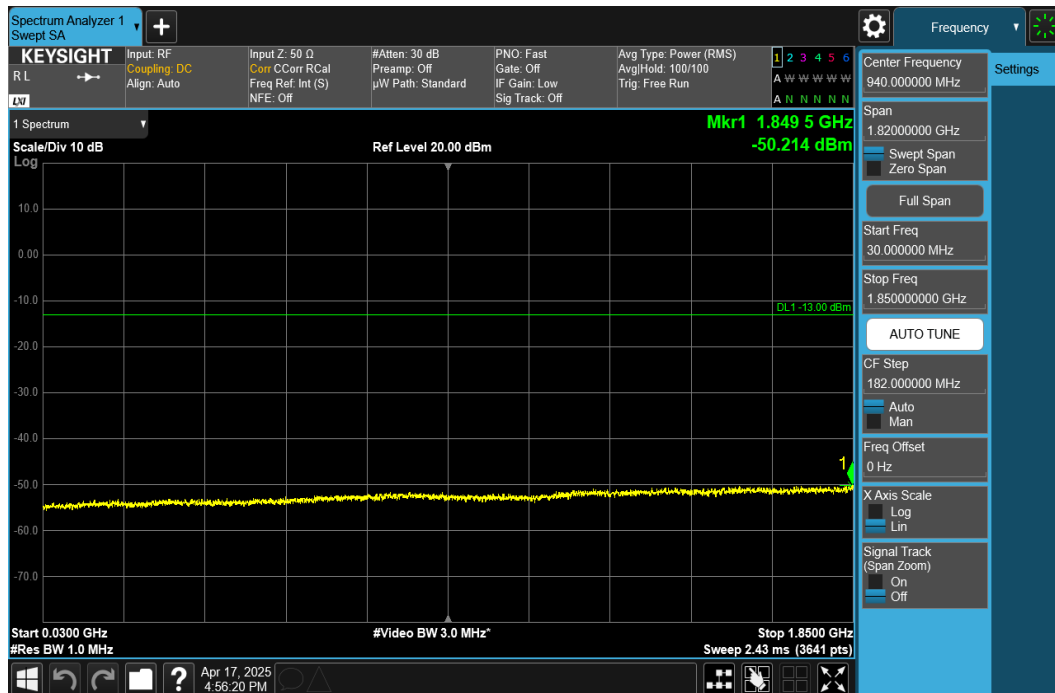


Plot 7-43. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - Mid Channel)

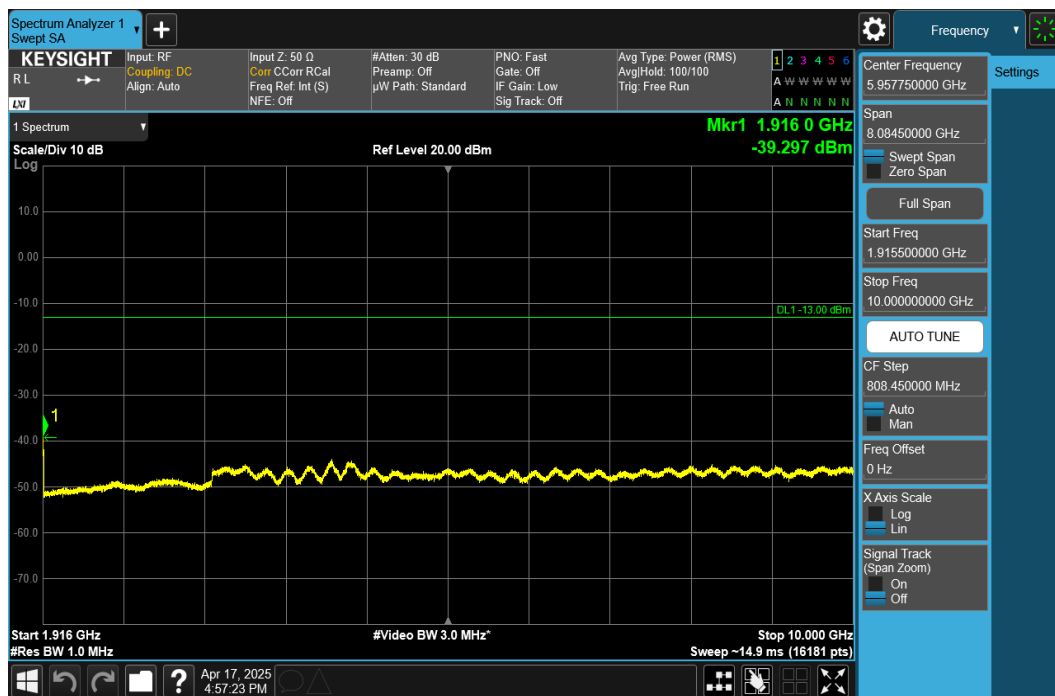
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 39 of 131

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 7-44. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

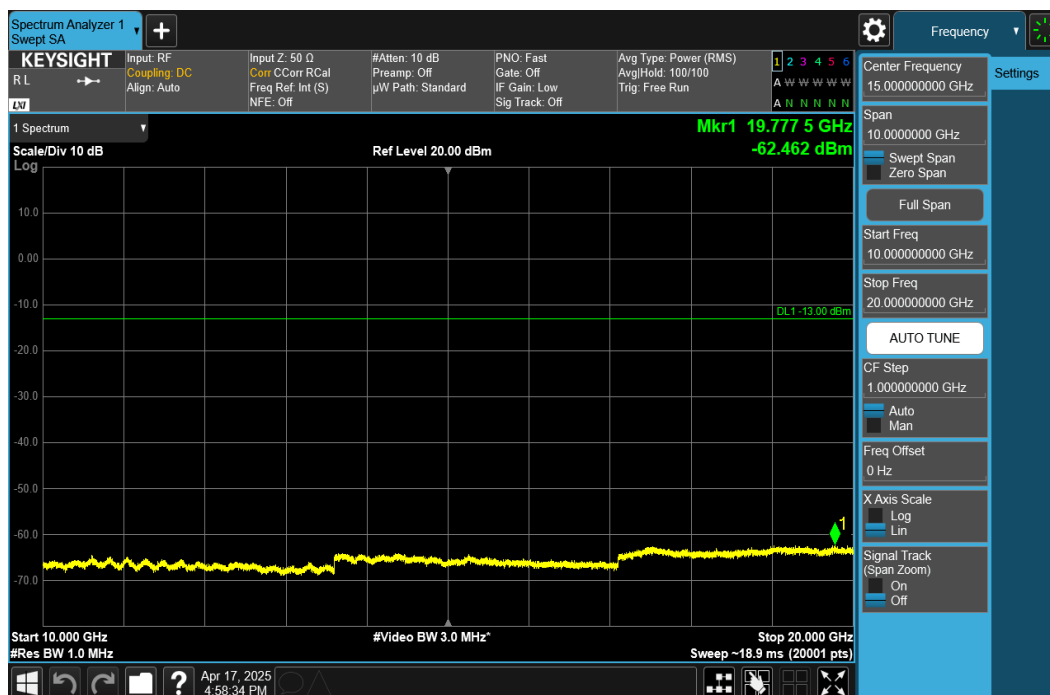


Plot 7-45. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)


FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 40 of 131

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 7-46. Conducted Spurious Plot (NR Band n25/n2 - 20MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 50 - High Channel)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 41 of 131

V2.2 09/07/2023

7.4 Band Edge Emissions at Antenna Terminal

§2.1051, §24.238(a)

Test Overview and Limit

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 of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. 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 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x 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

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 42 of 131

V2.2 09/07/2023

Test Setup

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

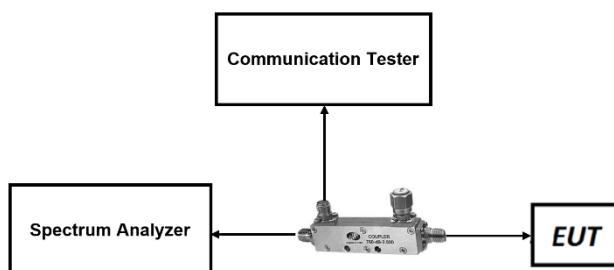


Figure 7-5. LTE Test Instrument & Measurement Setup

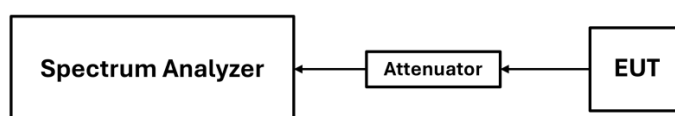



Figure 7-6. FR1 Test Instrument & Measurement Setup

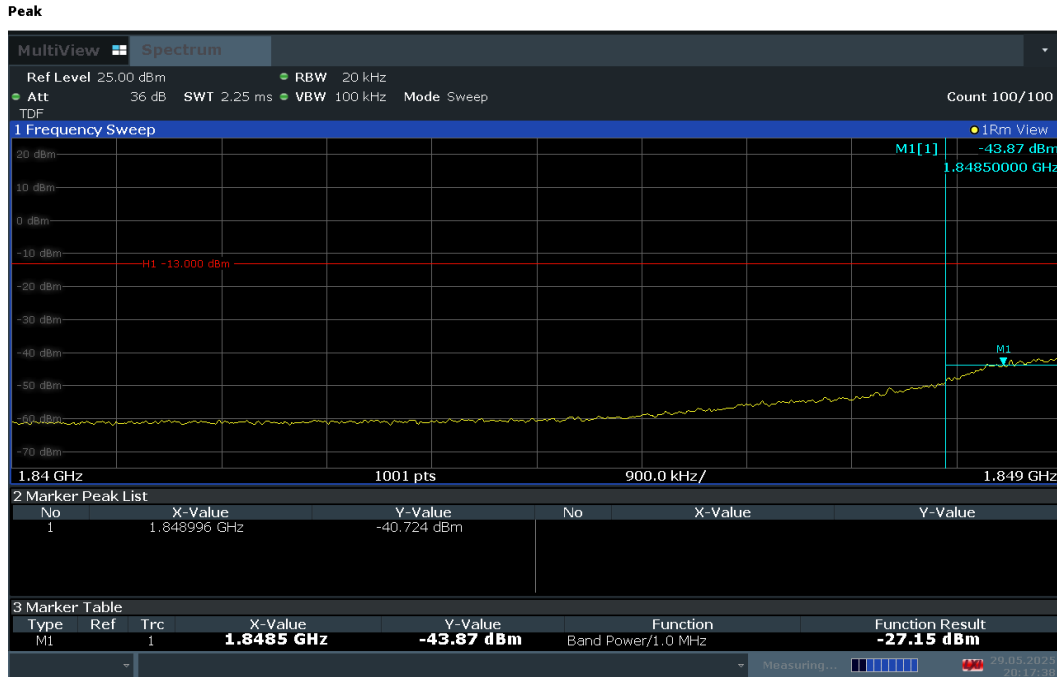
Test Notes

1. Per 24.238(a), in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter 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 frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
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.

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 43 of 131

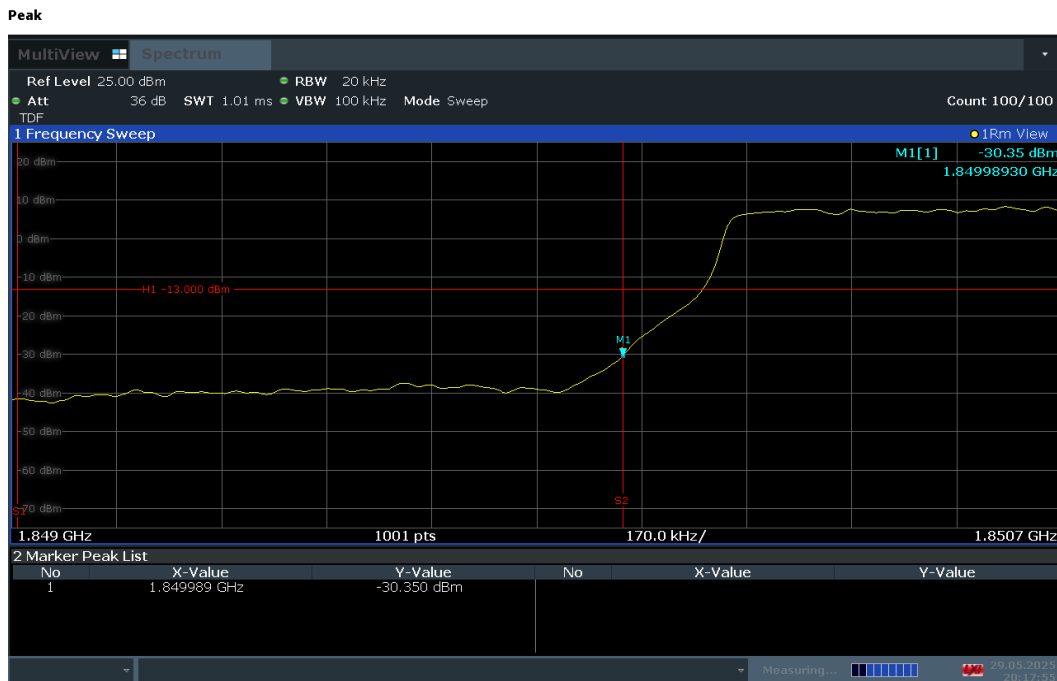
V2.2 09/07/2023

LTE Band 25




20:17:39 29.05.2025

Plot 7-47. Extended Lower Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)



20:17:55 29.05.2025

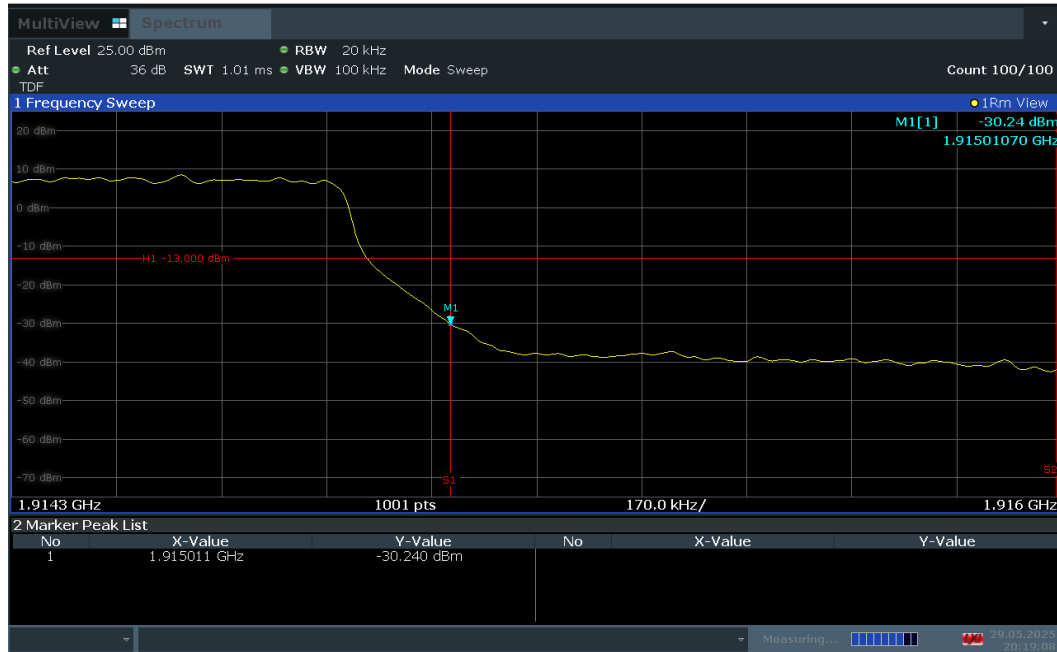
Plot 7-48. Lower Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 44 of 131

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.

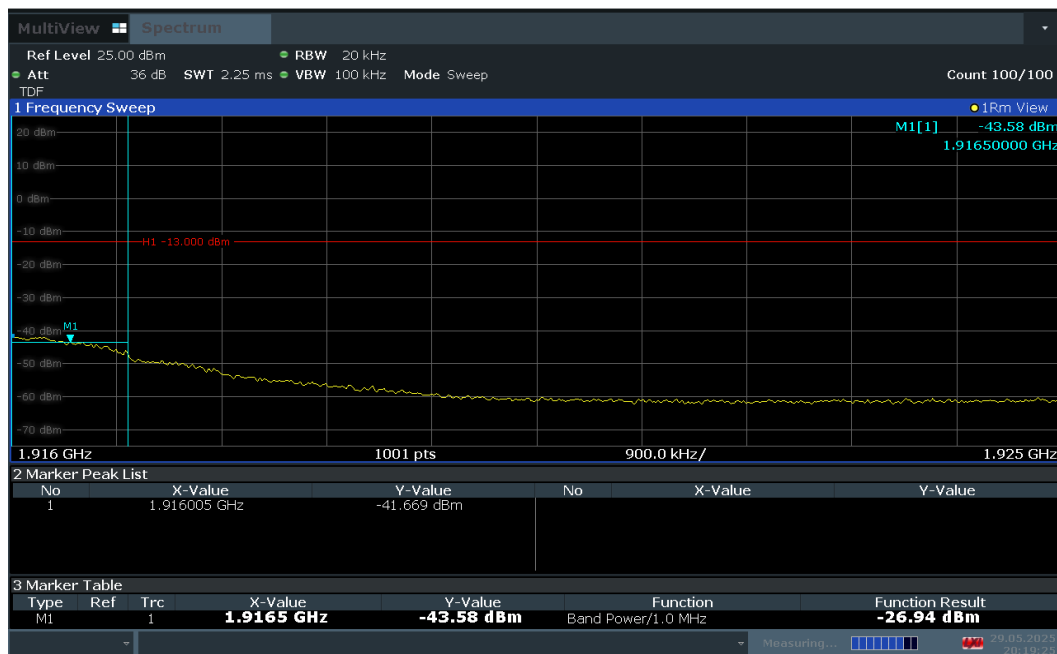
Peak



20:19:09 29.05.2025


Plot 7-49. Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

Peak



20:19:25 29.05.2025

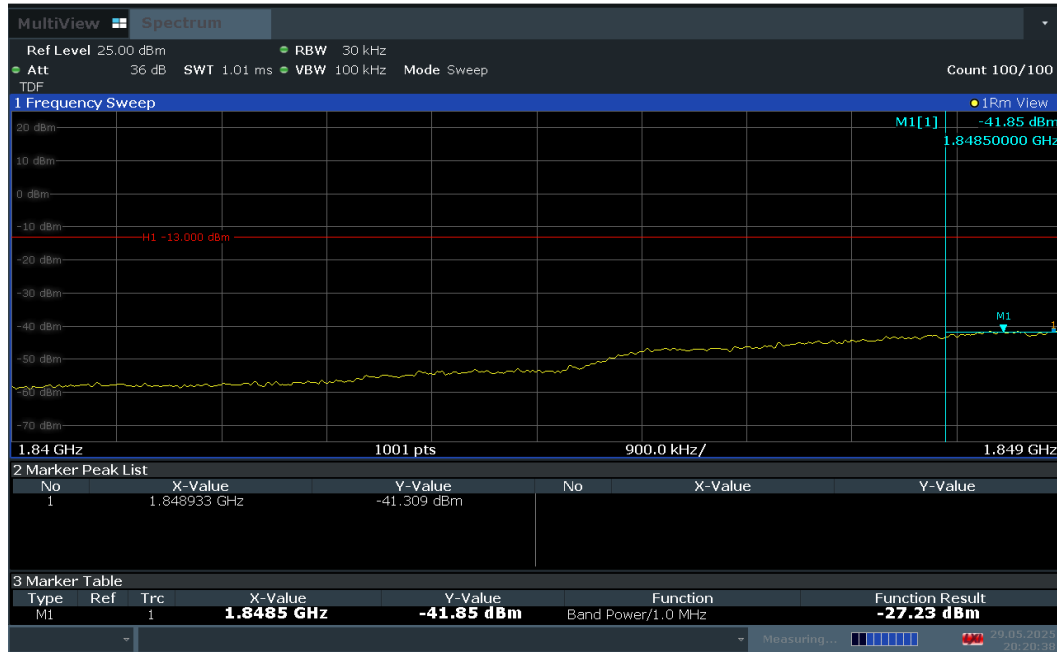
Plot 7-50. Extended Upper Band Edge Plot (LTE Band 25 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch		Page 45 of 131

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.

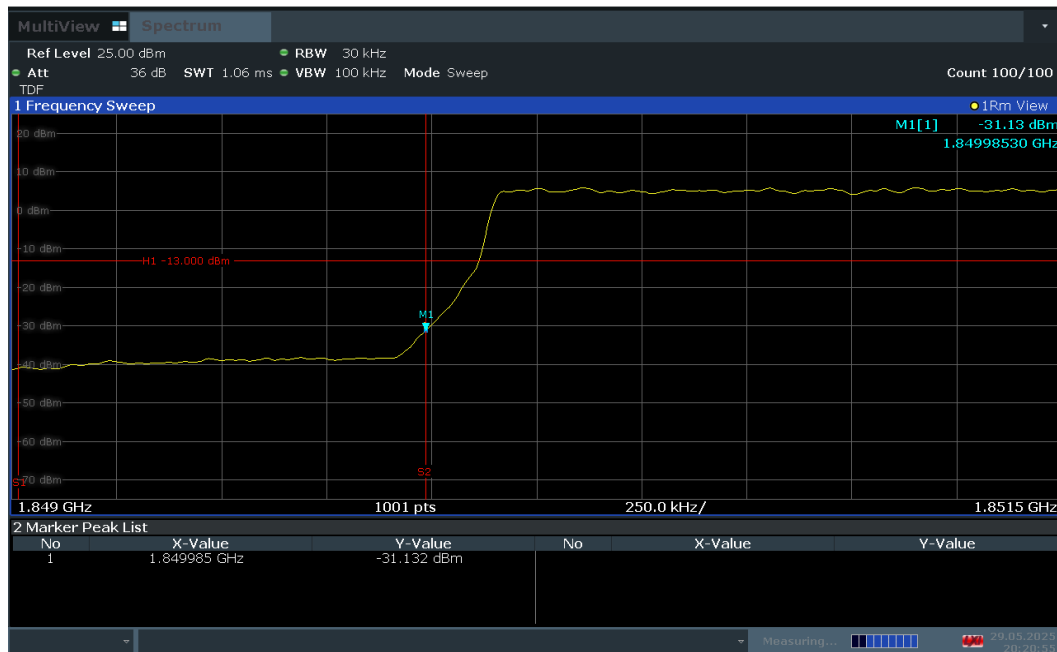
Peak



20:20:39 29.05.2025


Plot 7-51. Extended Lower Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

Peak



20:20:56 29.05.2025

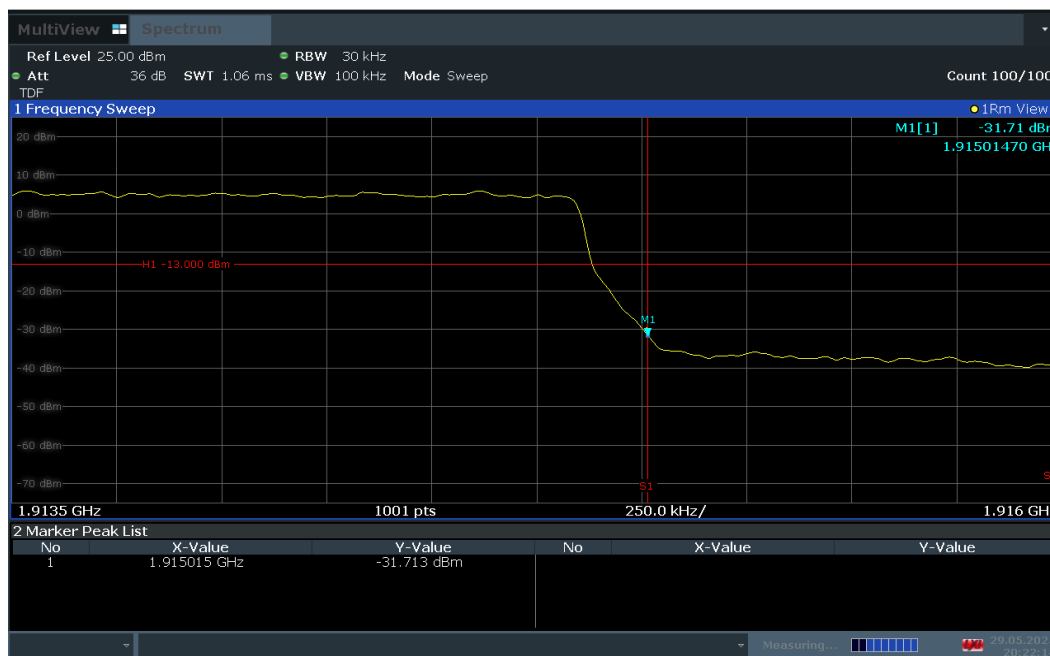
Plot 7-52. Lower Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 46 of 131

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.

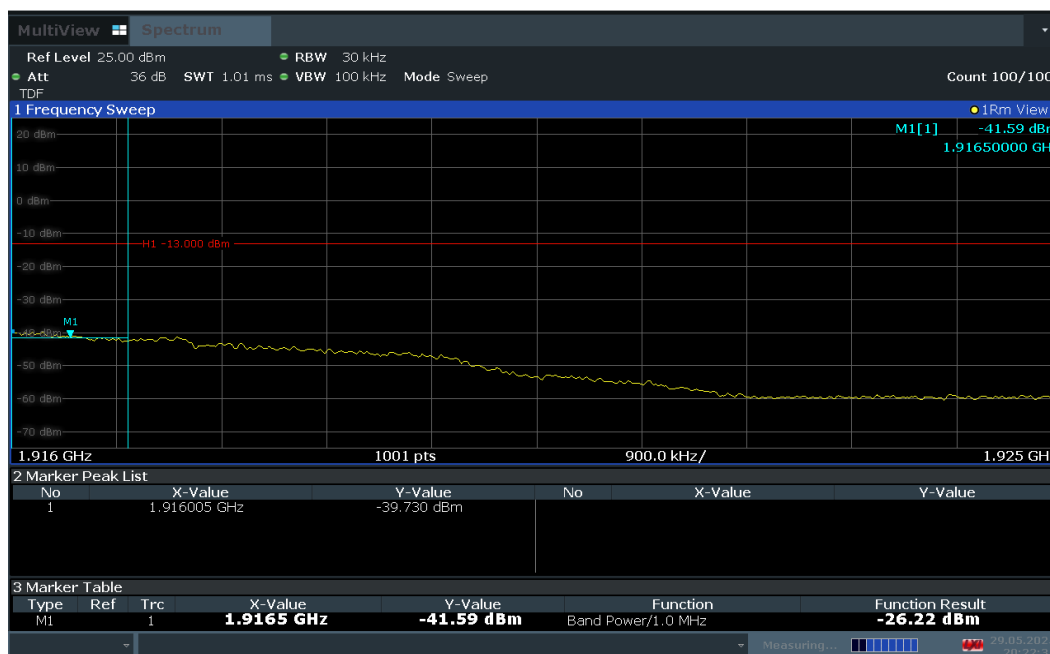
Peak



20:22:14 29.05.2025


Plot 7-53. Upper Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

Peak



20:22:31 29.05.2025

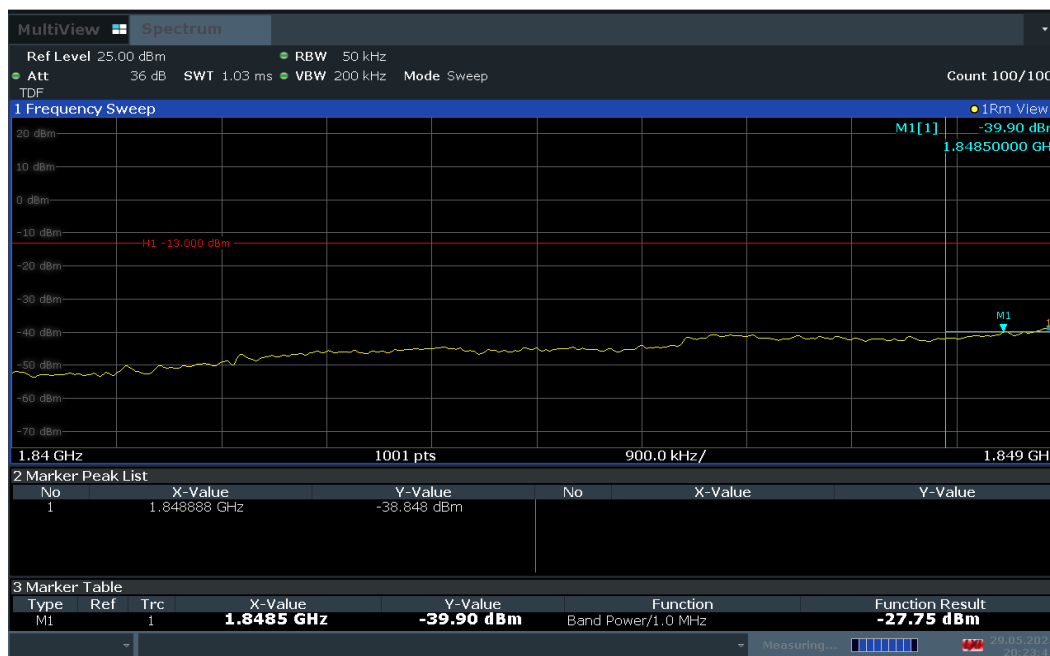
Plot 7-54. Extended Upper Band Edge Plot (LTE Band 25 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 47 of 131

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.

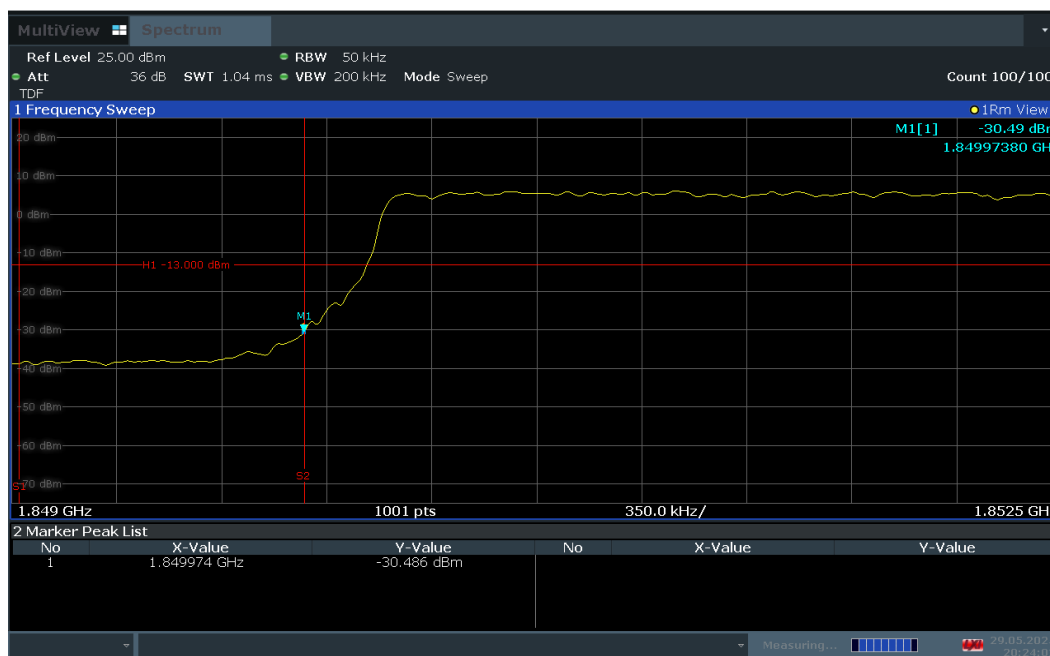
Peak



20:23:45 29.05.2025


Plot 7-55. Extended Lower Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

Peak



20:24:02 29.05.2025

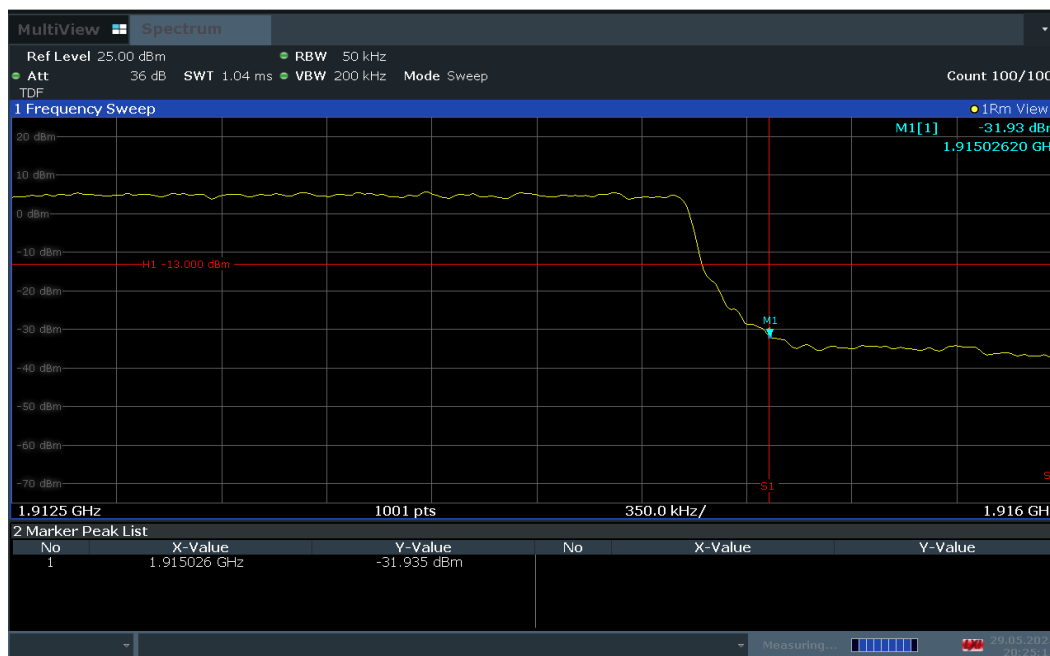
Plot 7-56. Lower Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 48 of 131

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.

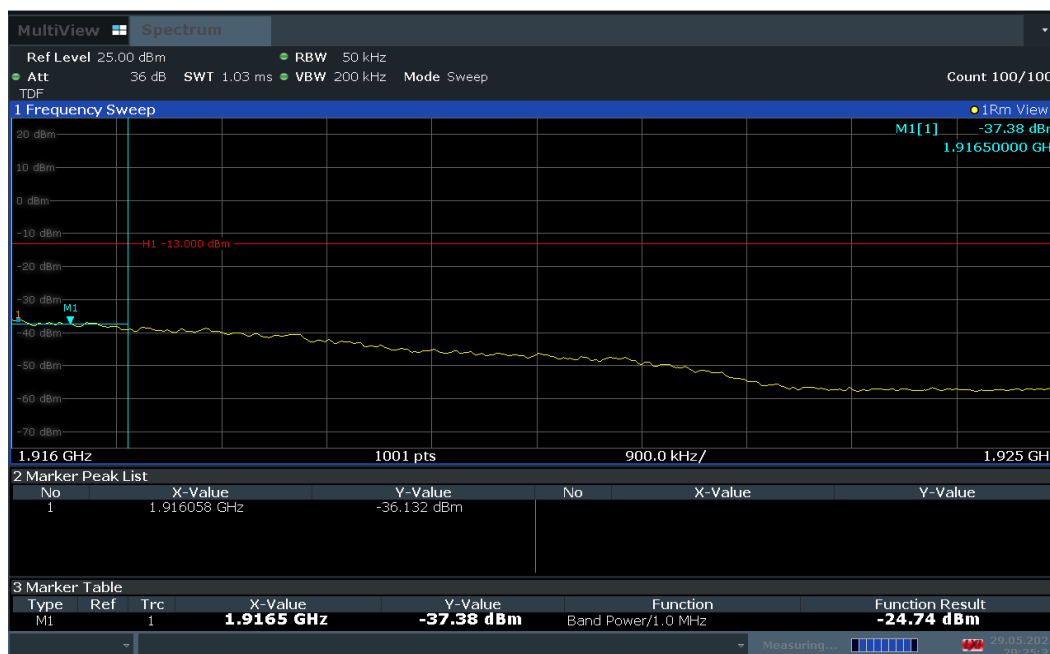
Peak



20:25:16 29.05.2025


Plot 7-57. Upper Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

Peak



20:25:33 29.05.2025

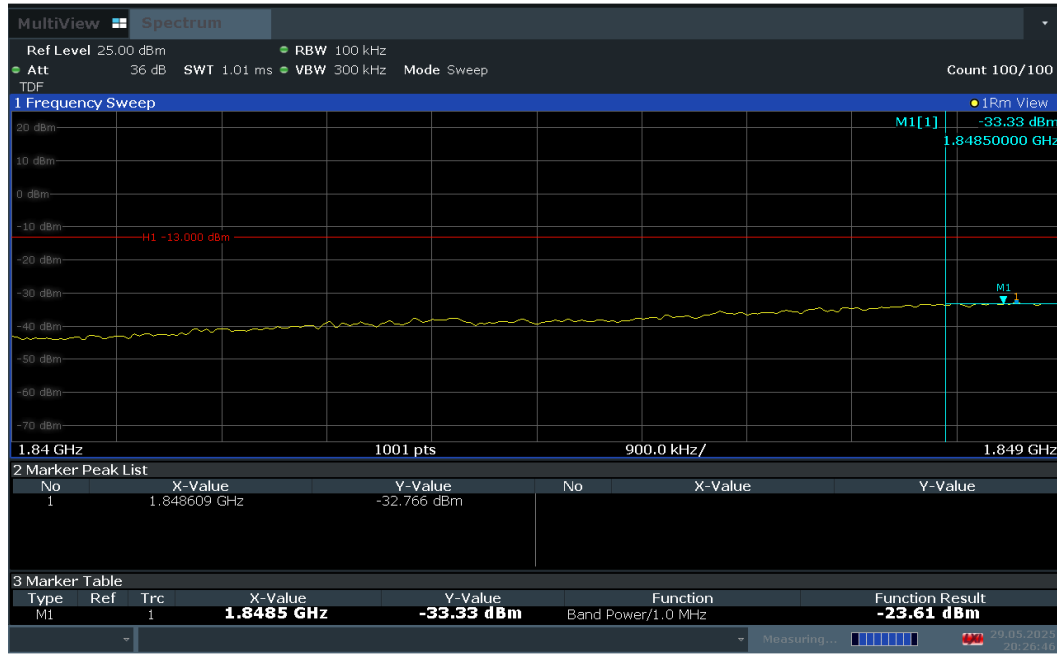
Plot 7-58. Extended Upper Band Edge Plot (LTE Band 25 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 49 of 131

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.

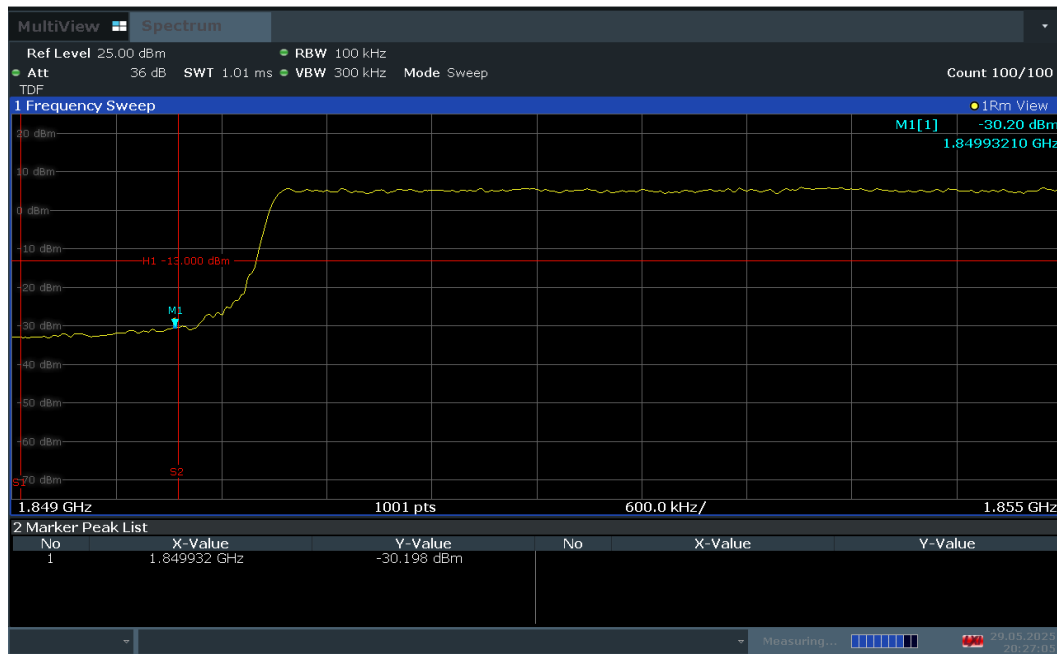
Peak



20:26:47 29.05.2025


Plot 7-59. Extended Lower Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

Peak



20:27:05 29.05.2025

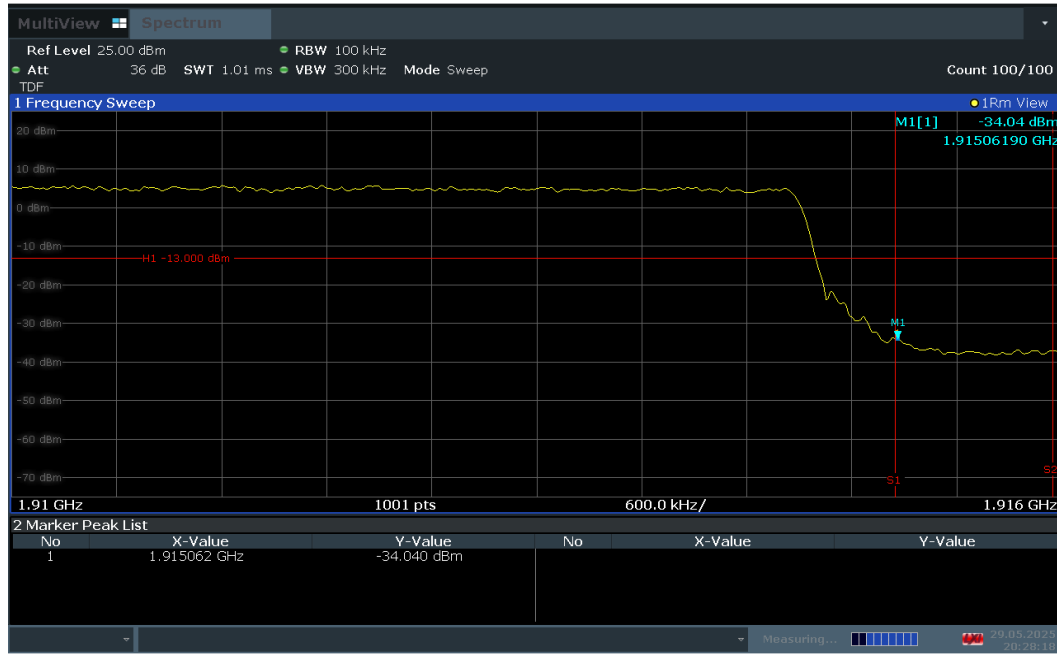
Plot 7-60. Lower Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 50 of 131

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.

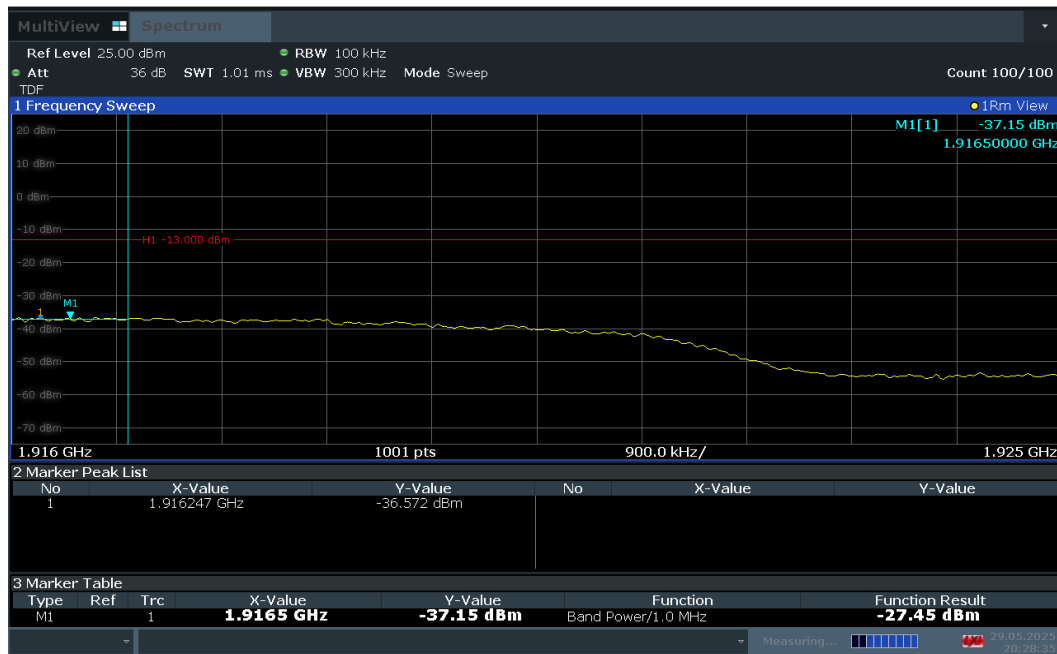
Peak



20:28:18 29.05.2025


Plot 7-61. Upper Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

Peak



20:28:36 29.05.2025

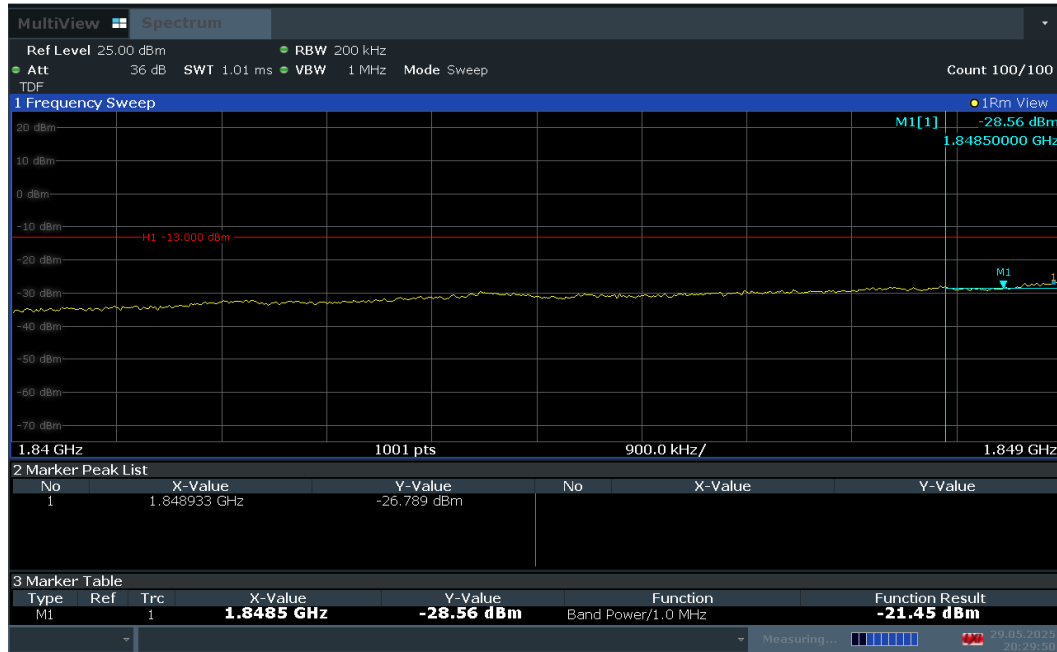
Plot 7-62. Extended Upper Band Edge Plot (LTE Band 25 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 51 of 131

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.

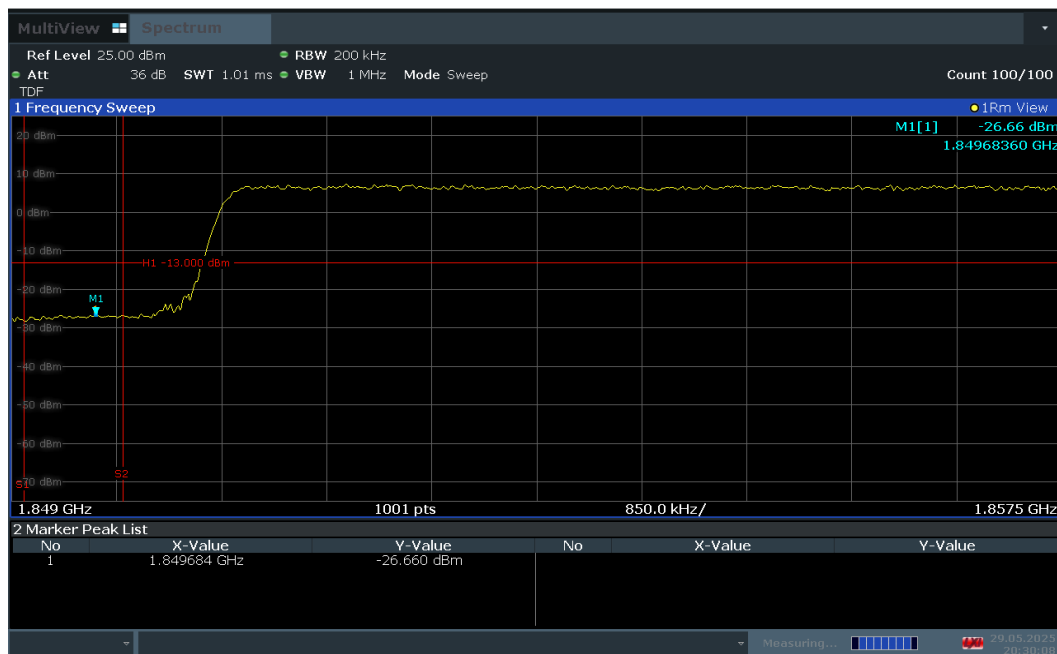
Peak



20:29:51 29.05.2025


Plot 7-63. Extended Lower Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

Peak



20:30:09 29.05.2025

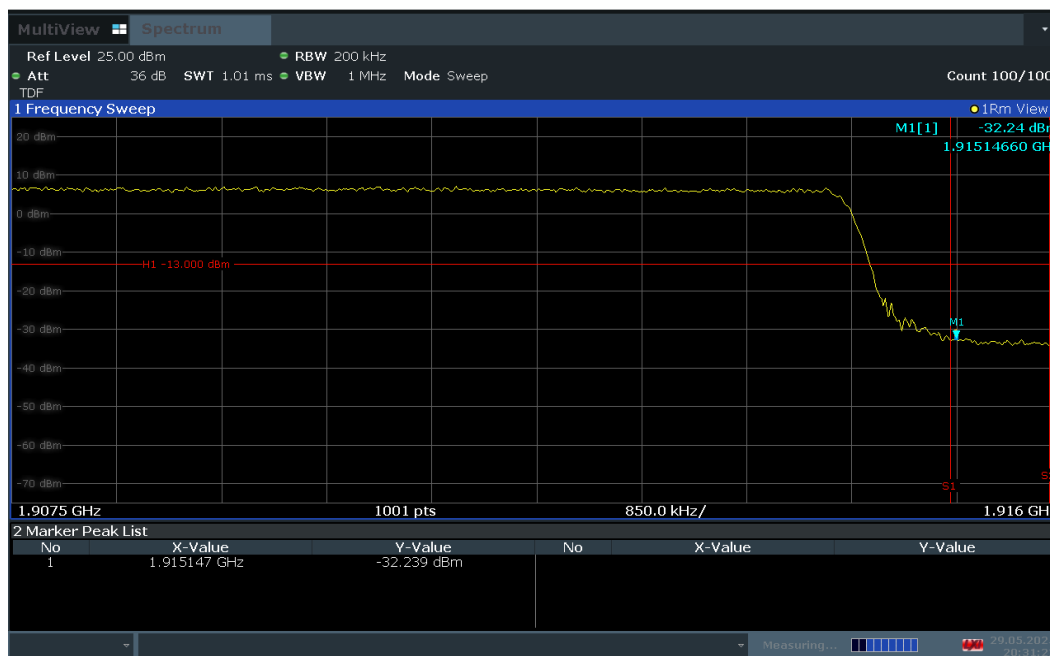
Plot 7-64. Lower Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 52 of 131

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.

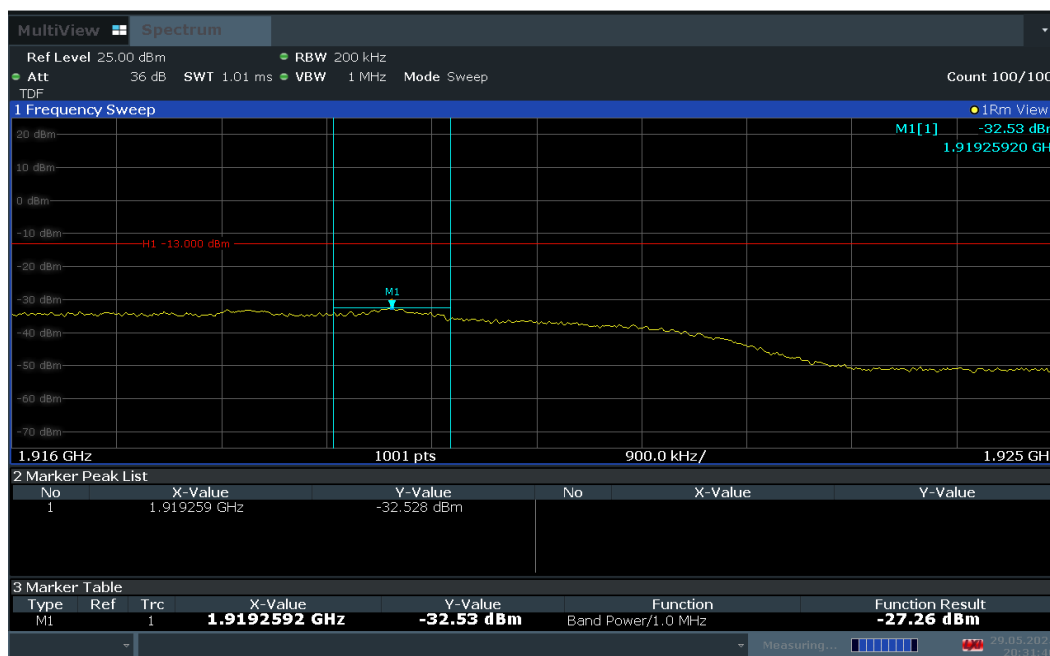
Peak



20:31:23 29.05.2025


Plot 7-65. Upper Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

Peak



20:31:41 29.05.2025

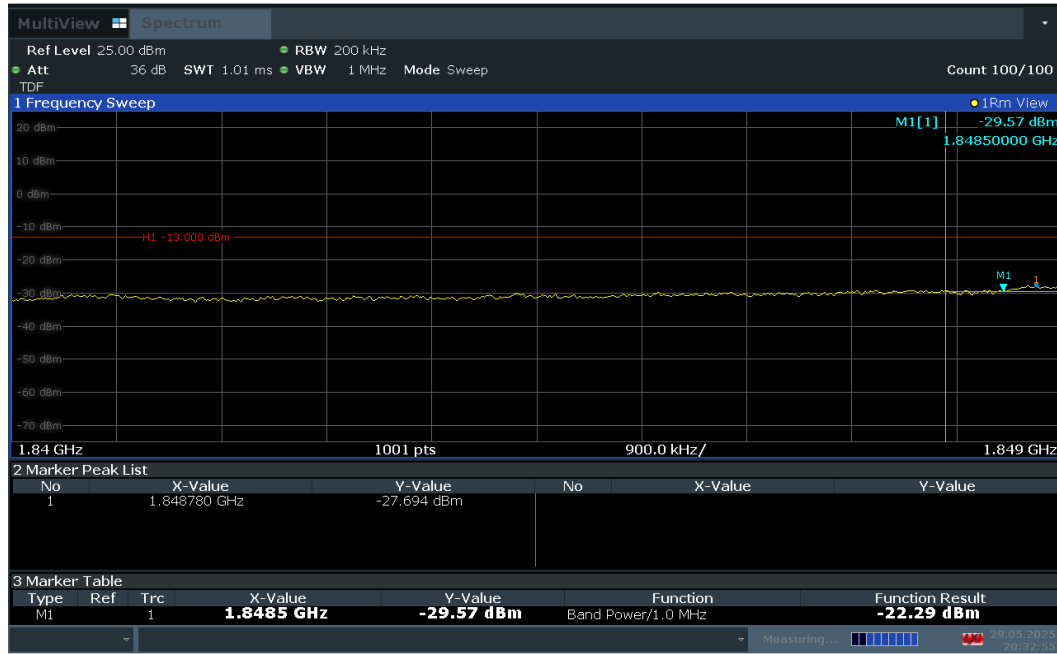
Plot 7-66. Extended Upper Band Edge Plot (LTE Band 25 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 53 of 131

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.

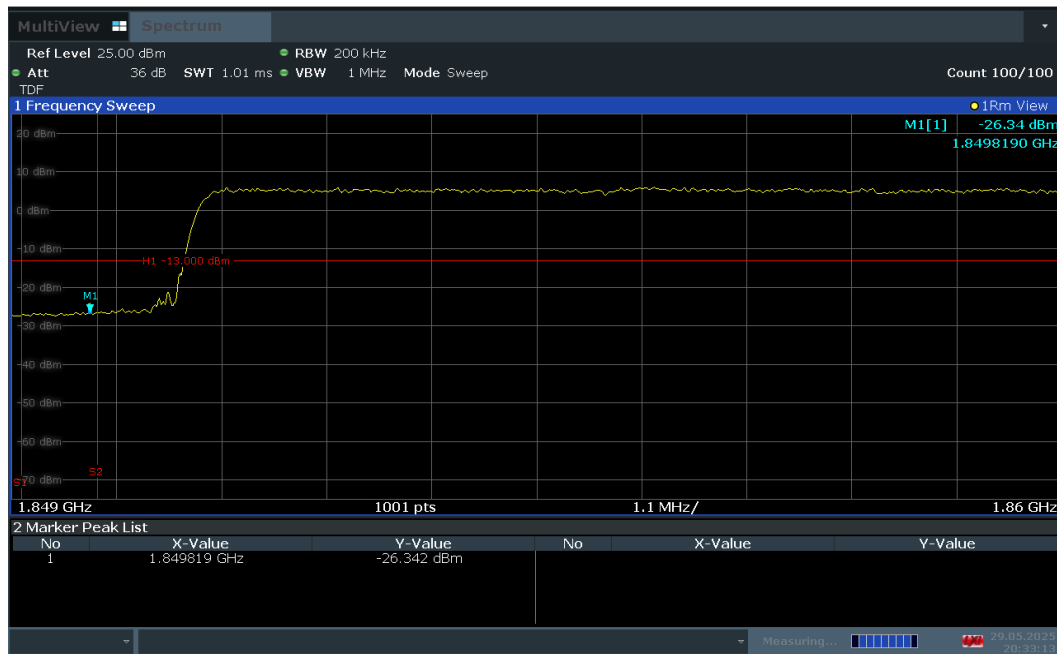
Peak



20:32:56 29.05.2025


Plot 7-67. Extended Lower Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

Peak



20:33:14 29.05.2025

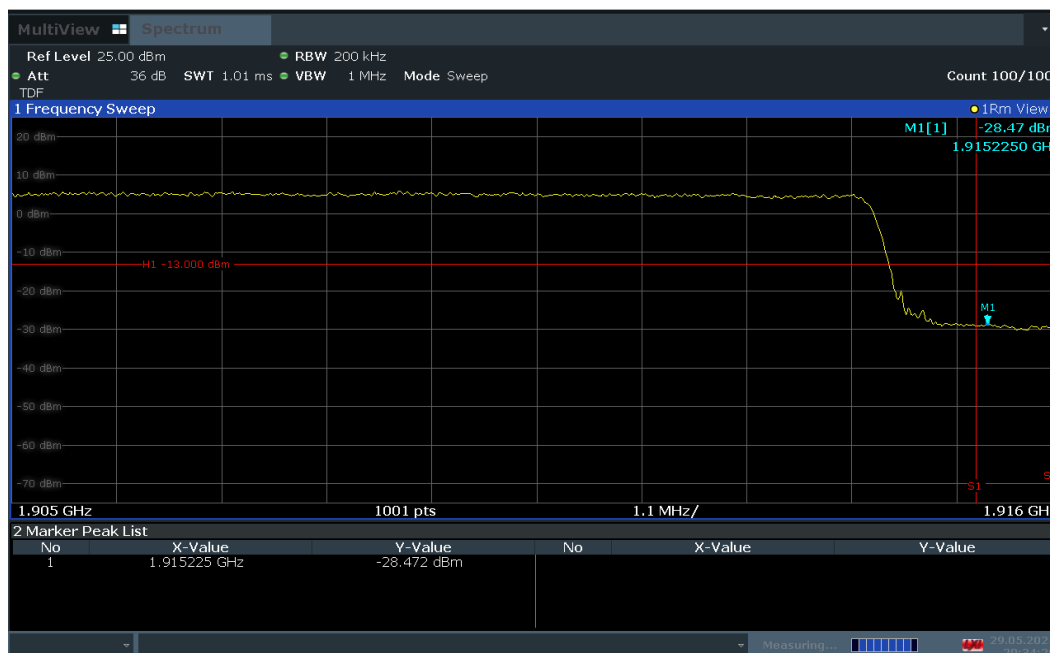
Plot 7-68. Lower Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 54 of 131

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.

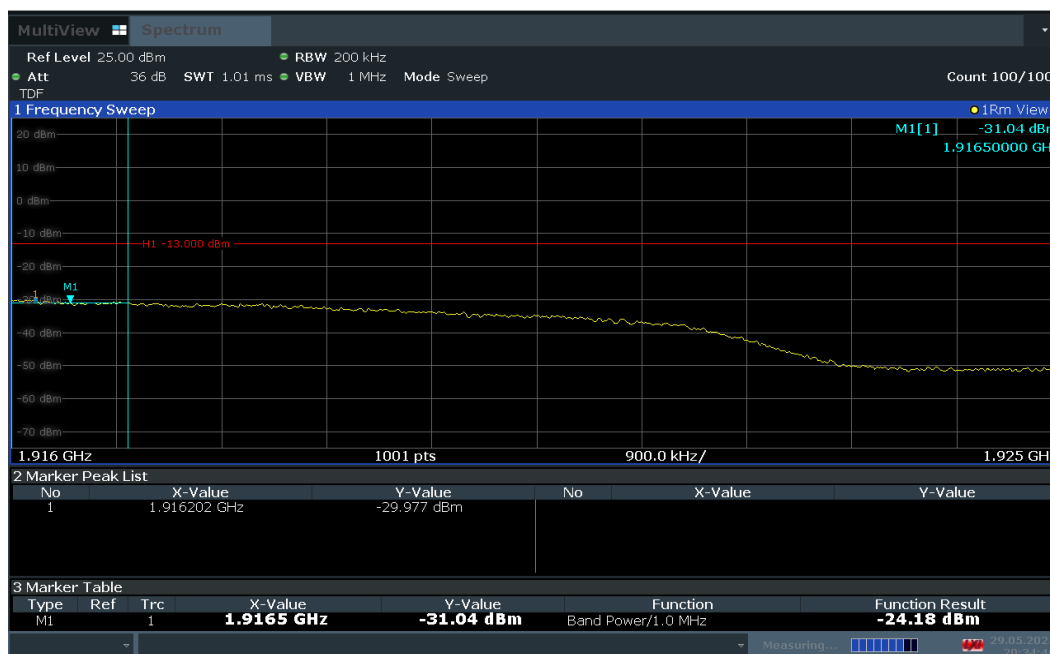
Peak



20:34:29 29.05.2025


Plot 7-69. Upper Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

Peak



20:34:47 29.05.2025

Plot 7-70. Extended Upper Band Edge Plot (LTE Band 25 – 20MHz QPSK – Full RB Configuration)

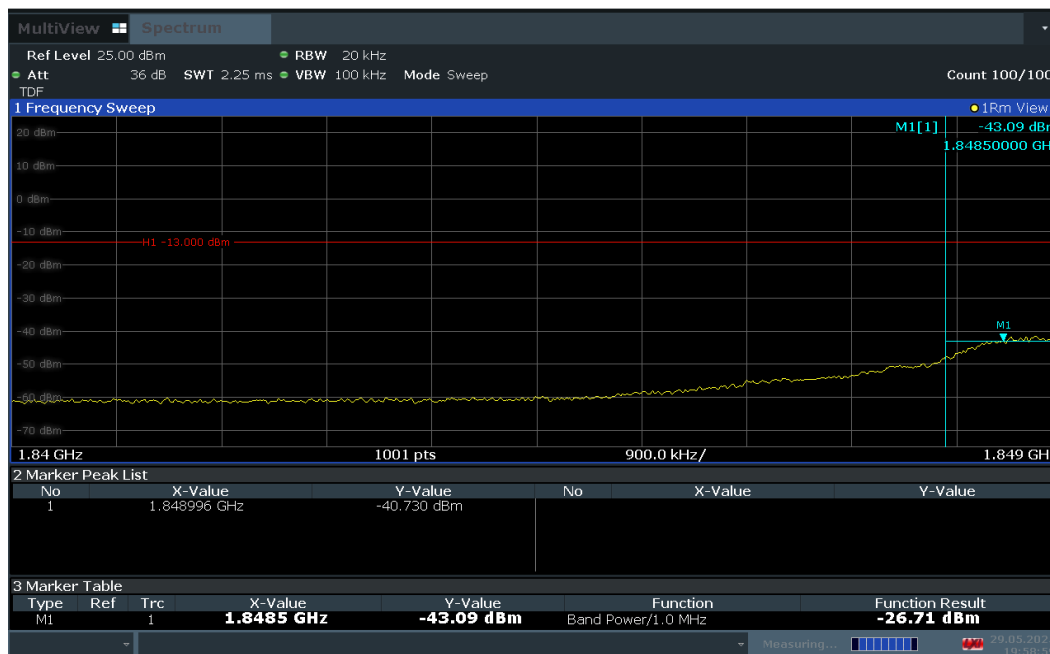
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 55 of 131

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 2

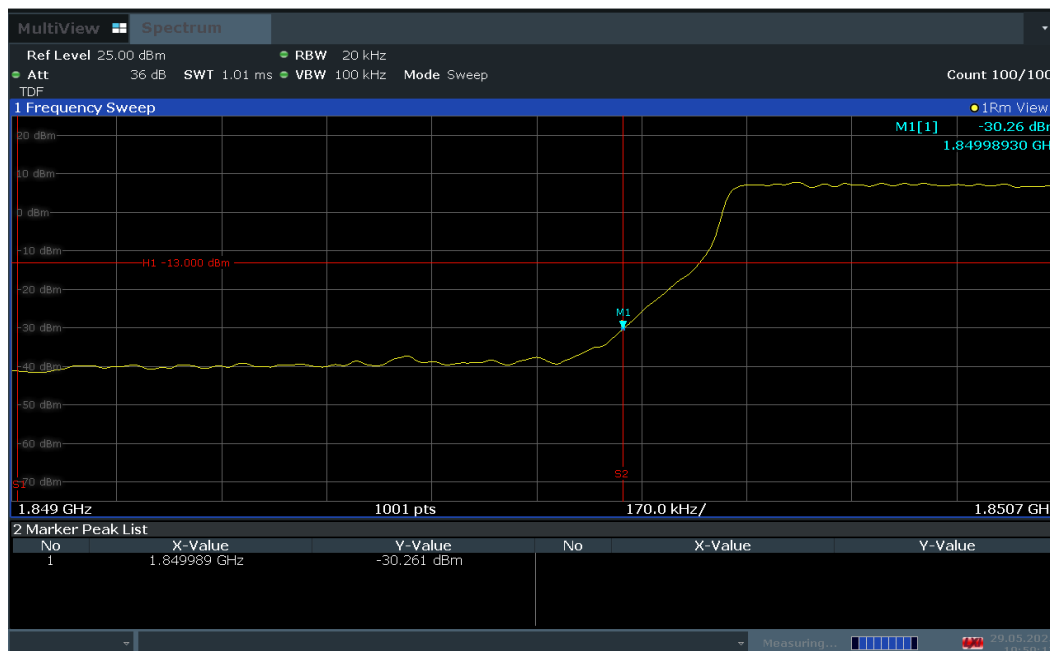
Peak



19:59:00 29.05.2025


Plot 7-71. Extended Lower Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

Peak



19:59:17 29.05.2025

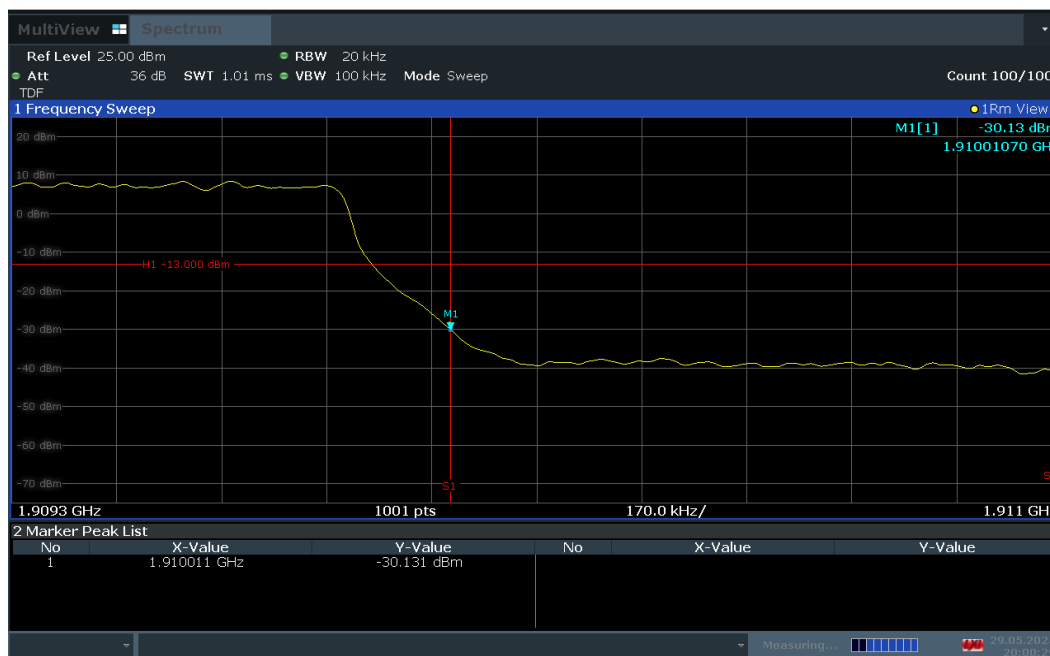
Plot 7-72. Lower Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 56 of 131

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.

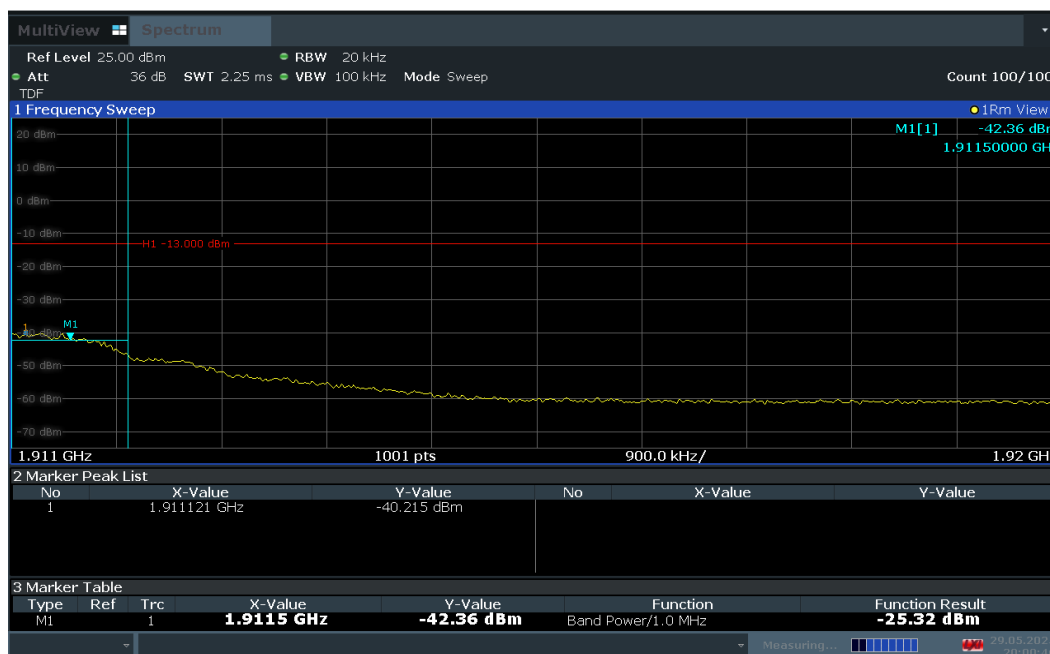
Peak



20:00:29 29.05.2025


Plot 7-73. Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

Peak



20:00:46 29.05.2025

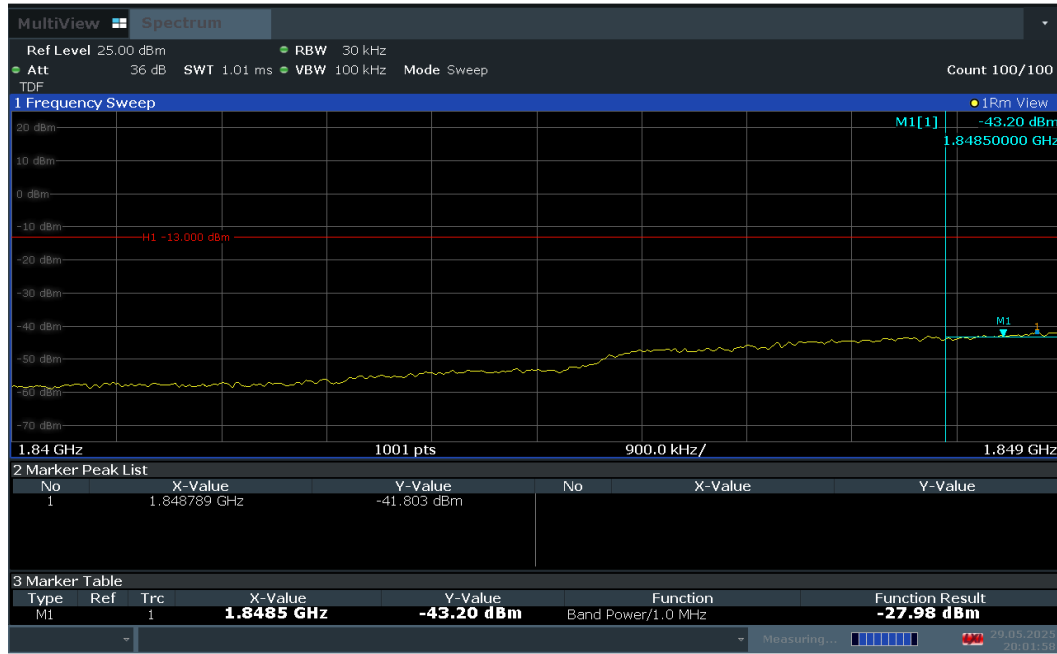
Plot 7-74. Extended Upper Band Edge Plot (LTE Band 2 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 57 of 131

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.

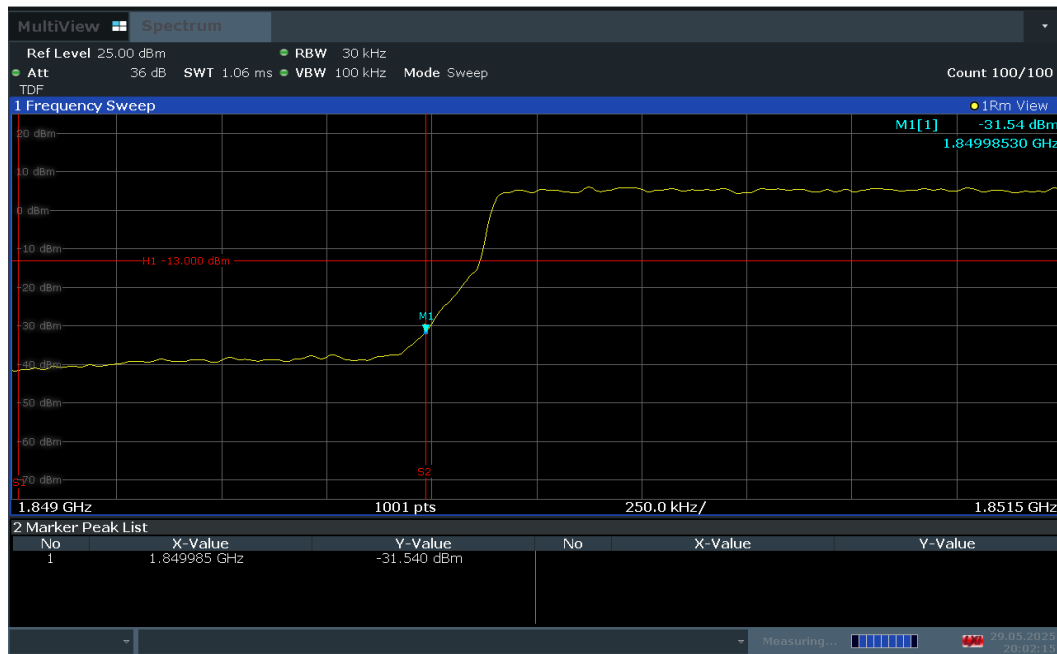
Peak



20:01:59 29.05.2025


Plot 7-75. Extended Lower Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

Peak



20:02:16 29.05.2025

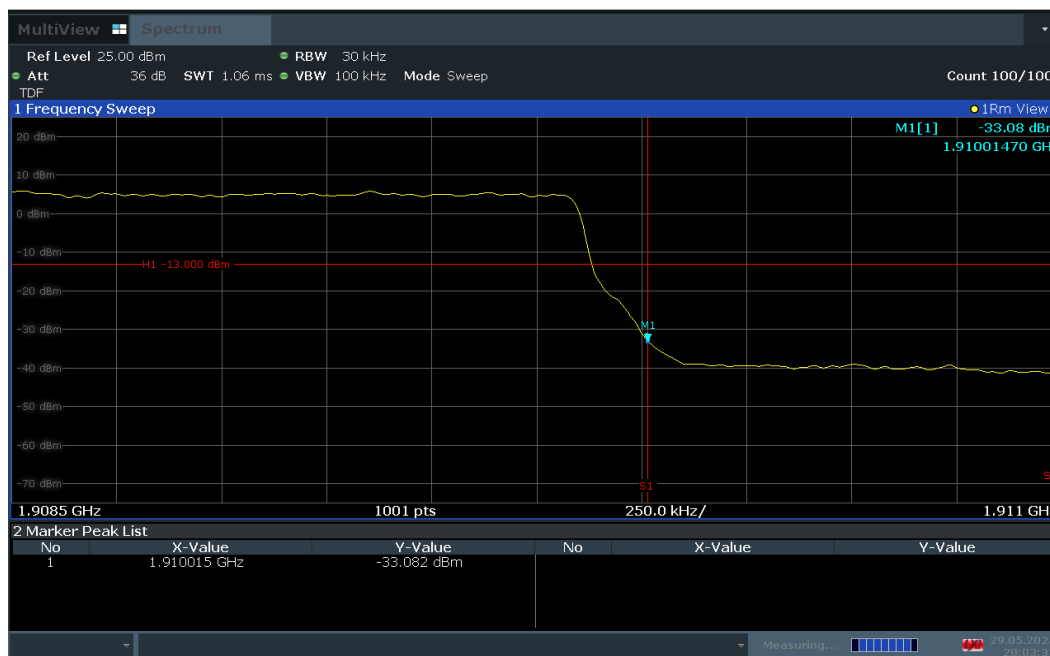
Plot 7-76. Lower Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 58 of 131

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.

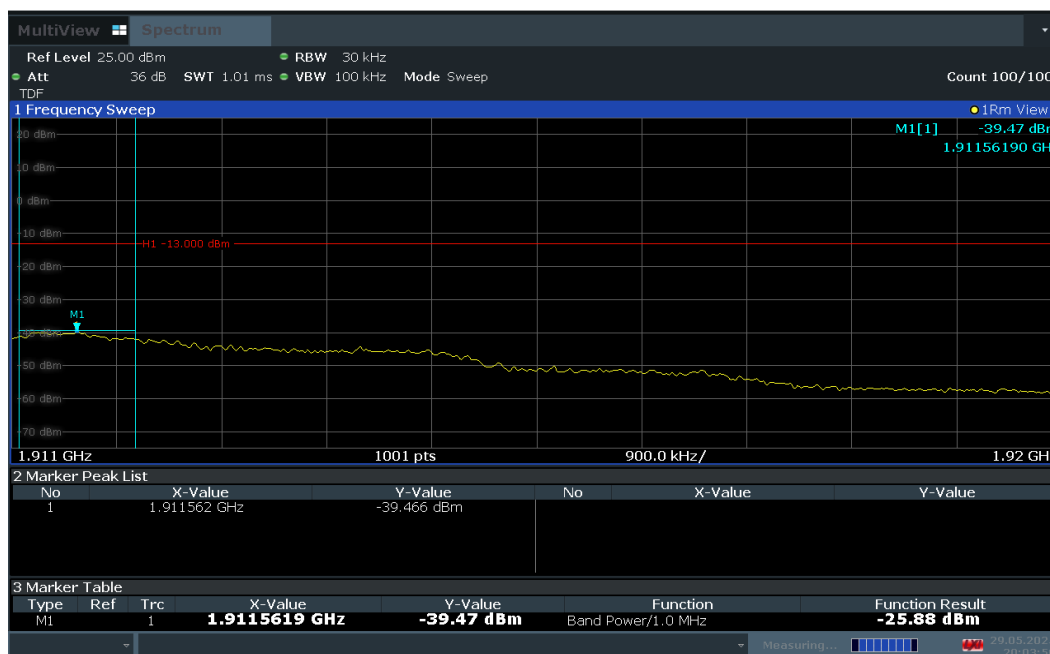
Peak



20:03:34 29.05.2025


Plot 7-77. Upper Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

Peak



20:03:51 29.05.2025

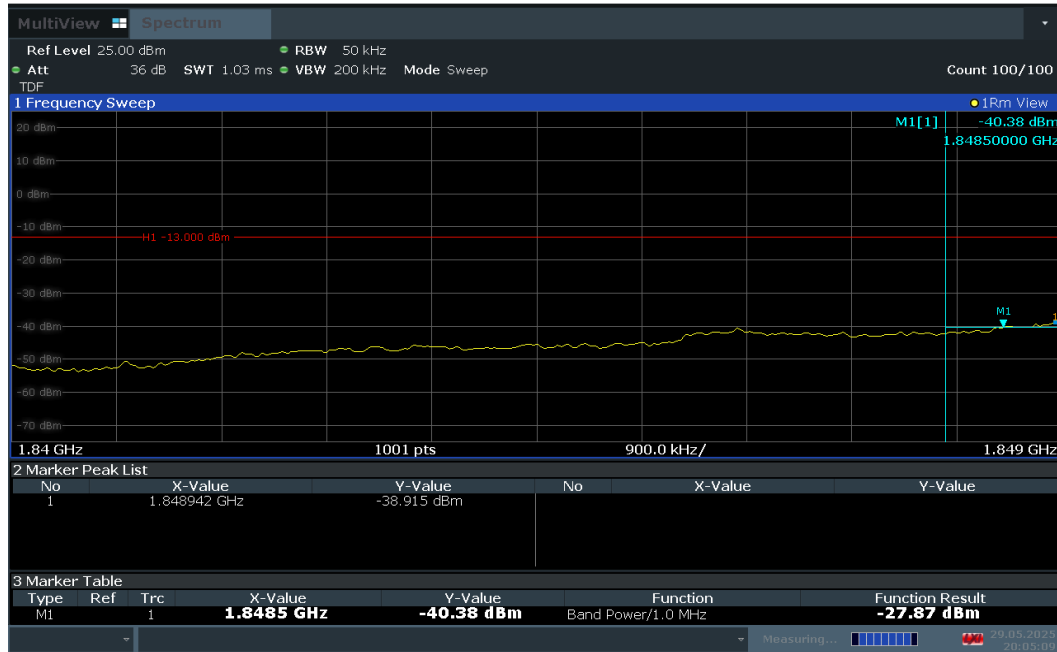
Plot 7-78. Extended Upper Band Edge Plot (LTE Band 2 – 3MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 59 of 131

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.

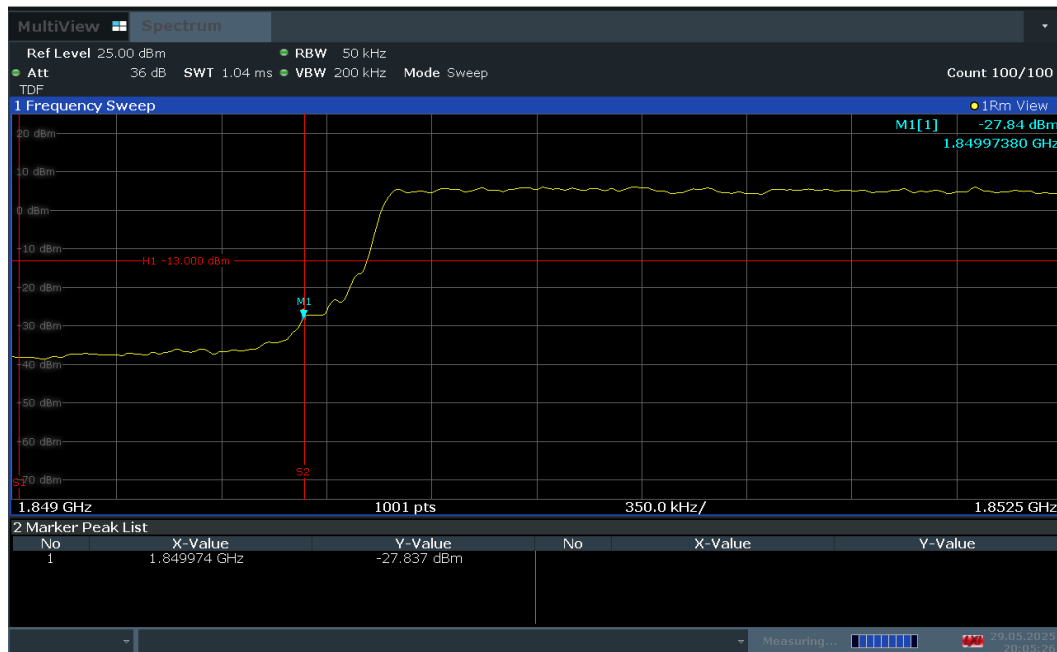
Peak



20:05:10 29.05.2025


Plot 7-79. Extended Lower Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

Peak



20:05:27 29.05.2025

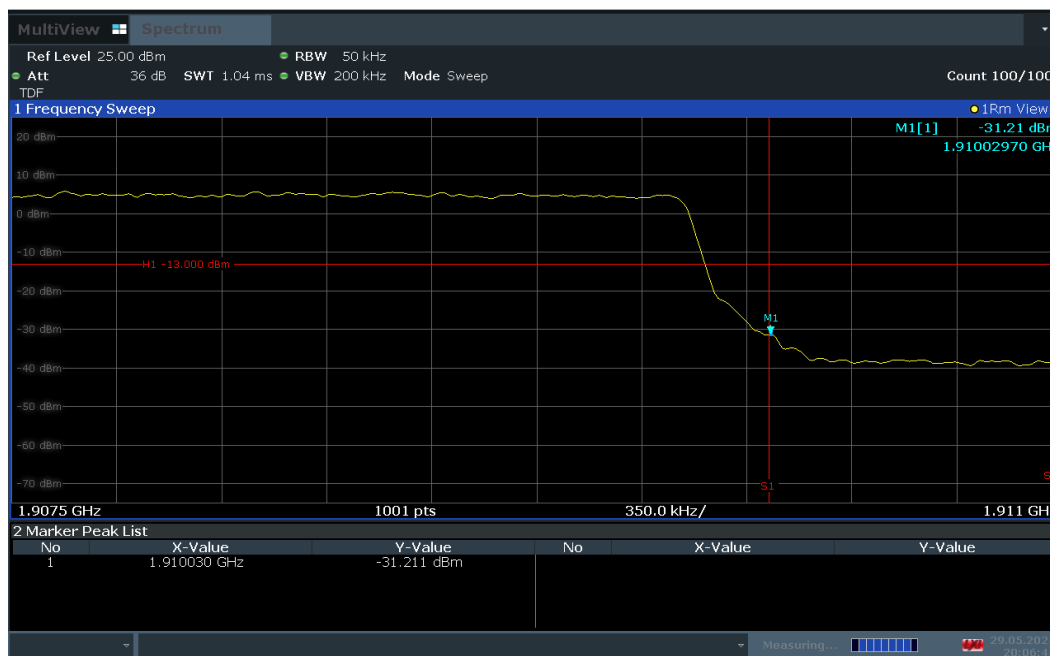
Plot 7-80. Lower Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 60 of 131

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.

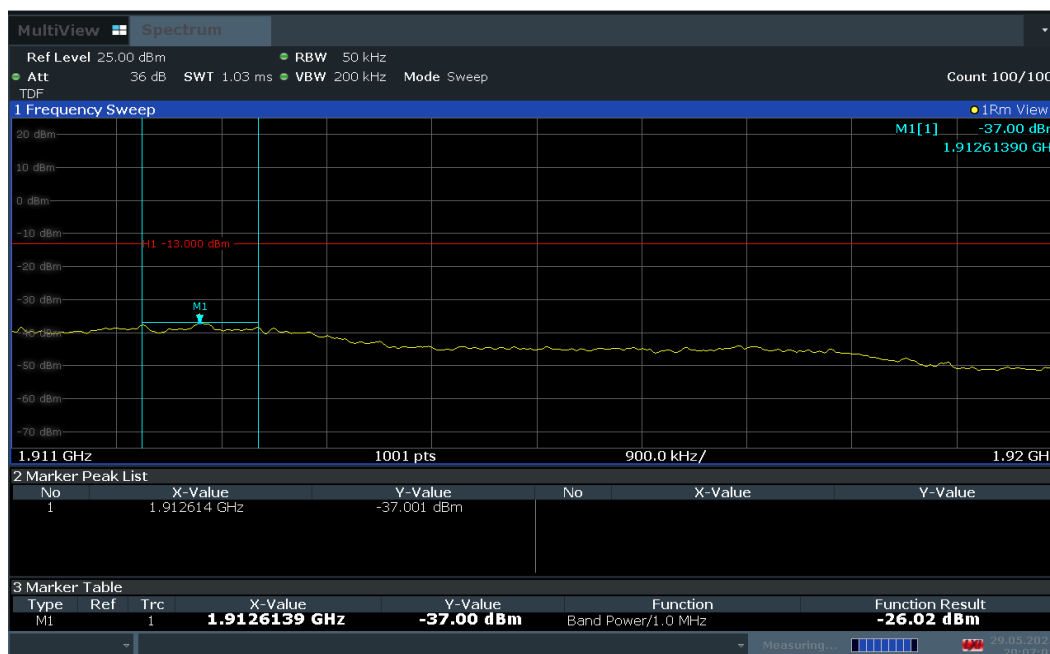
Peak



20:06:45 29.05.2025


Plot 7-81. Upper Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

Peak



20:07:02 29.05.2025

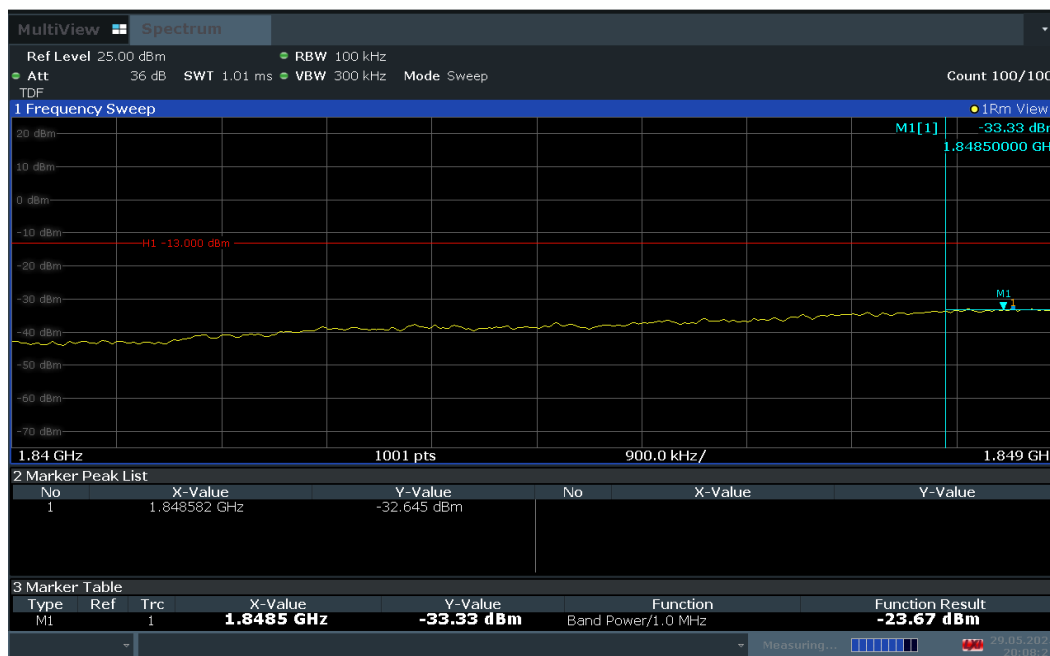
Plot 7-82. Extended Upper Band Edge Plot (LTE Band 2 – 5MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch		Page 61 of 131

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.

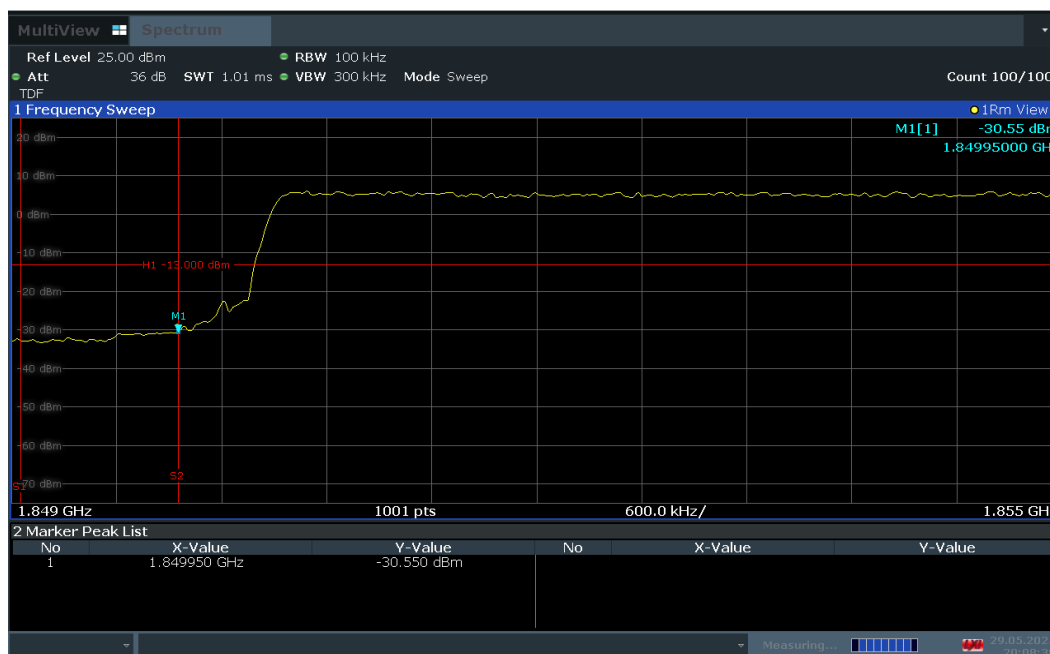
Peak



20:08:21 29.05.2025


Plot 7-83. Extended Lower Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

Peak



20:08:38 29.05.2025

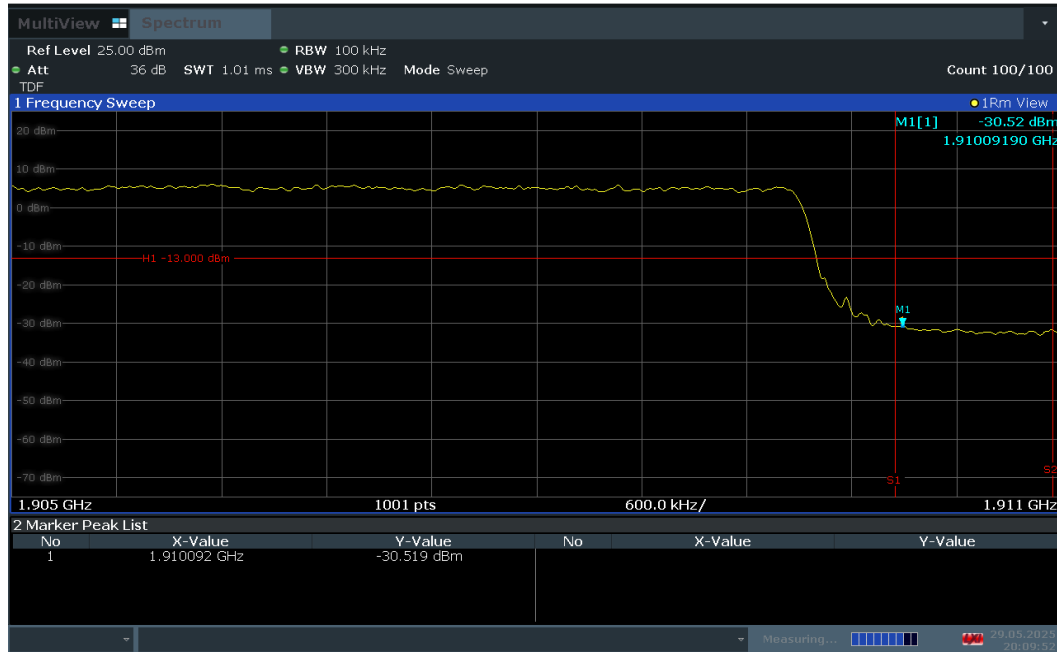
Plot 7-84. Lower Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 62 of 131

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.

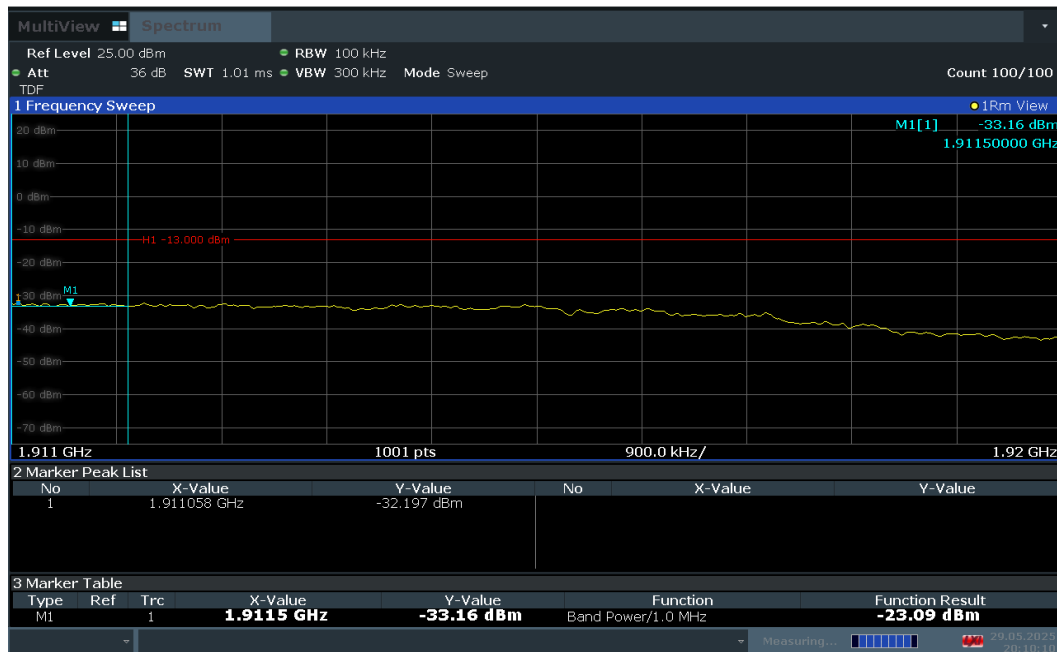
Peak



20:09:53 29.05.2025


Plot 7-85. Upper Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

Peak



20:10:10 29.05.2025

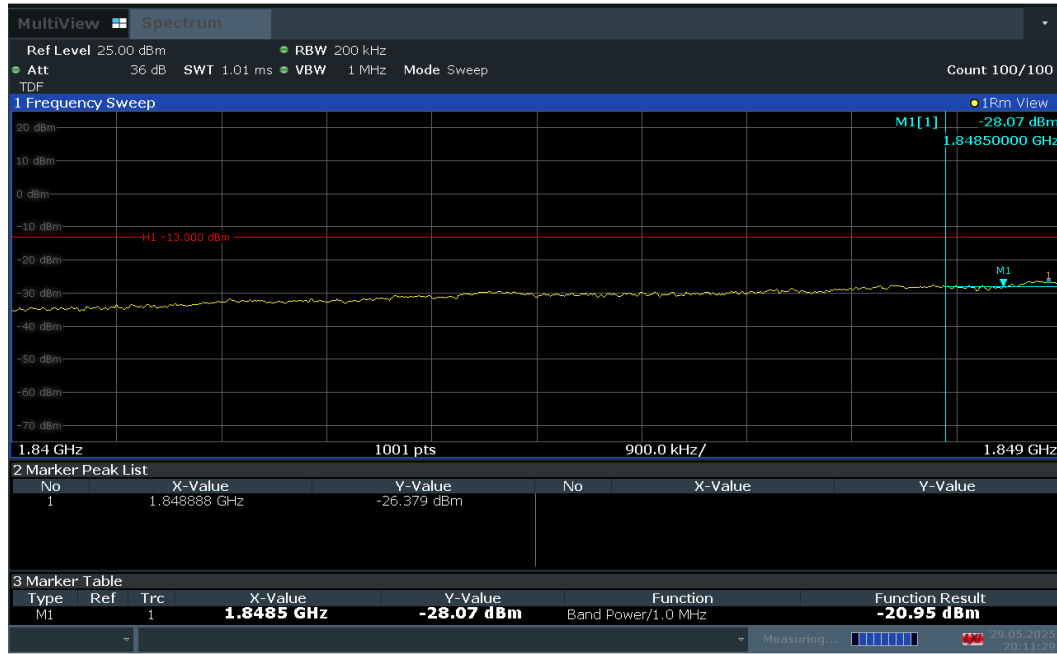
Plot 7-86. Extended Upper Band Edge Plot (LTE Band 2 – 10MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335		PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch		Page 63 of 131

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.

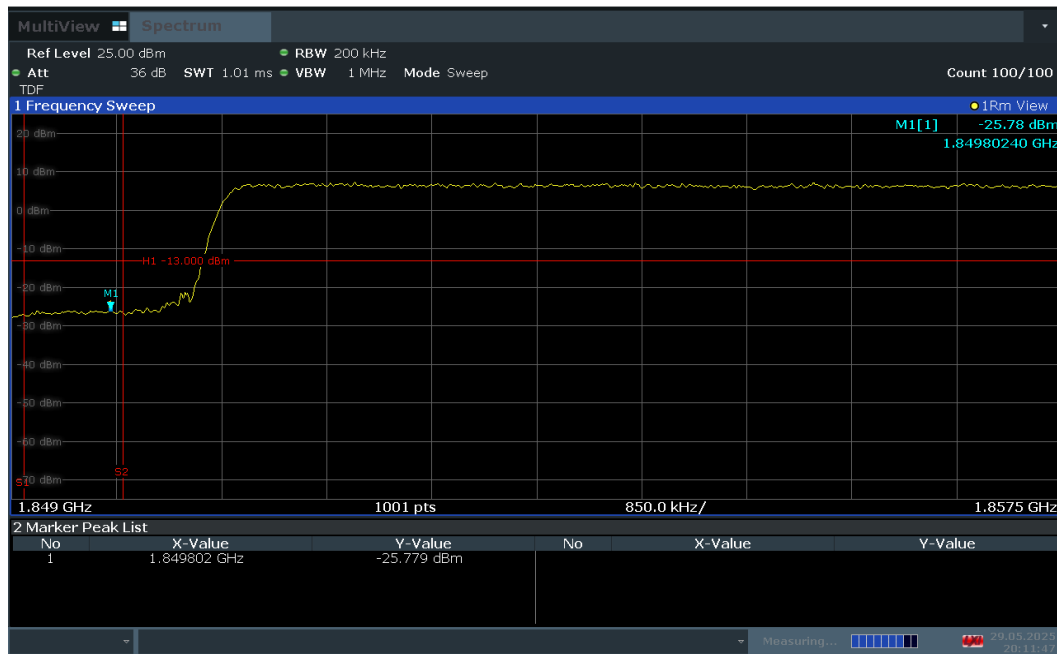
Peak



20:11:30 29.05.2025


Plot 7-87. Extended Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

Peak



20:11:47 29.05.2025

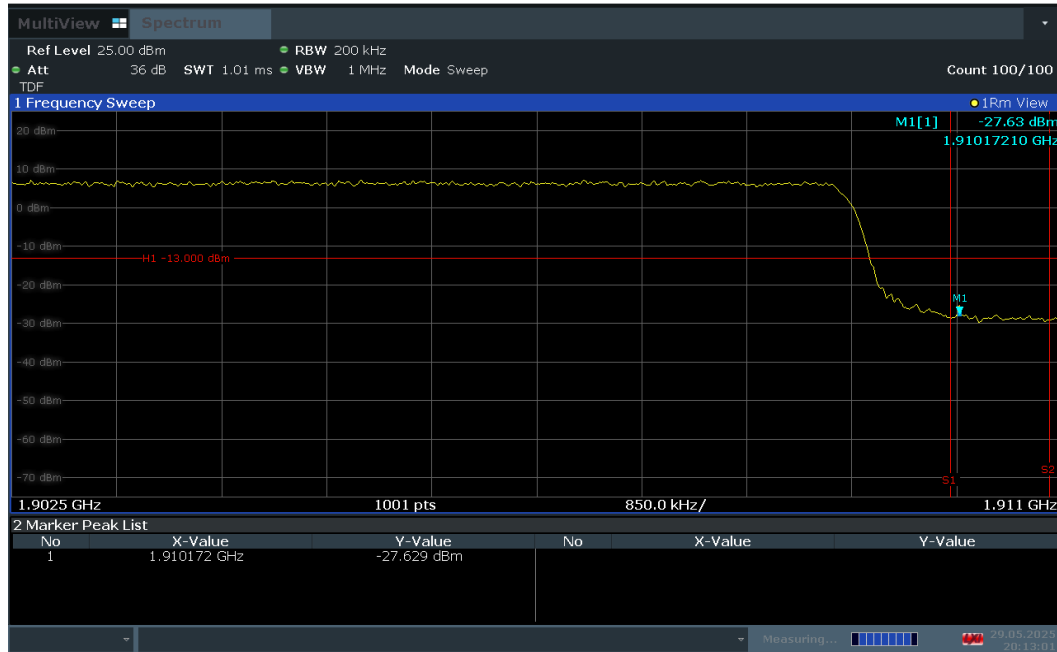
Plot 7-88. Lower Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 64 of 131

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.

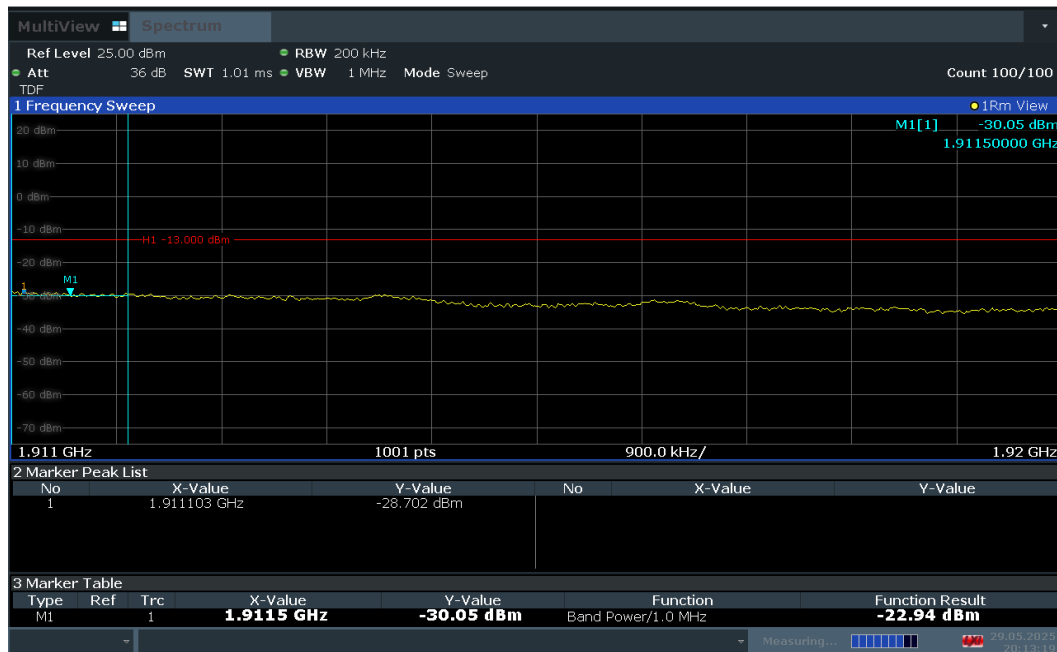
Peak



20:13:02 29.05.2025


Plot 7-89. Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

Peak



20:13:20 29.05.2025

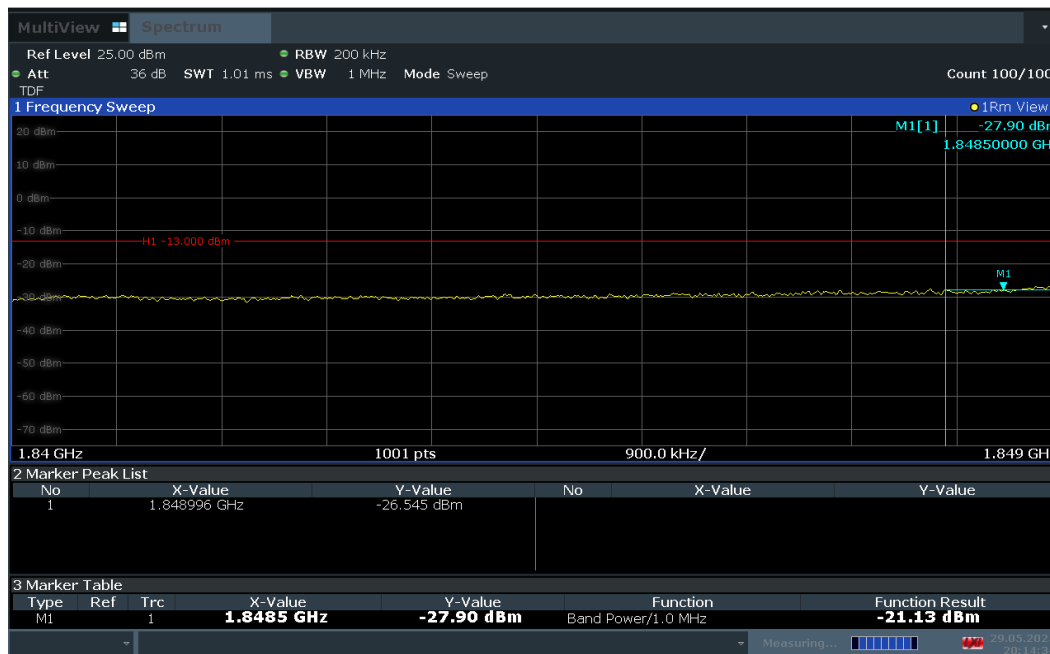
Plot 7-90. Extended Upper Band Edge Plot (LTE Band 2 – 15MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 65 of 131

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.

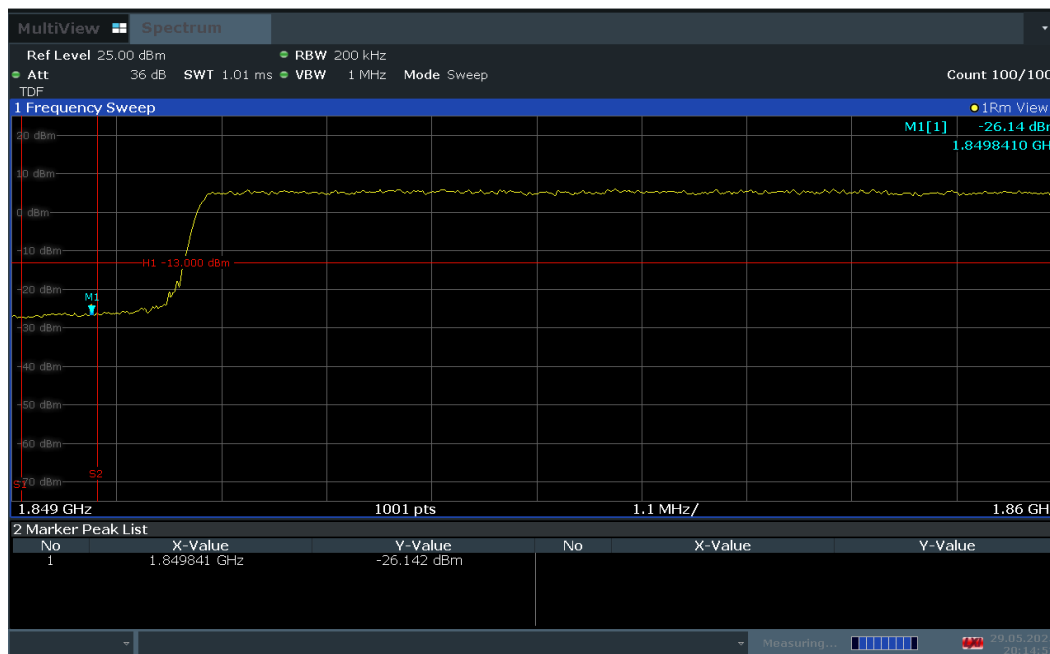
Peak



20:14:35 29.05.2025


Plot 7-91. Extended Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

Peak



20:14:53 29.05.2025

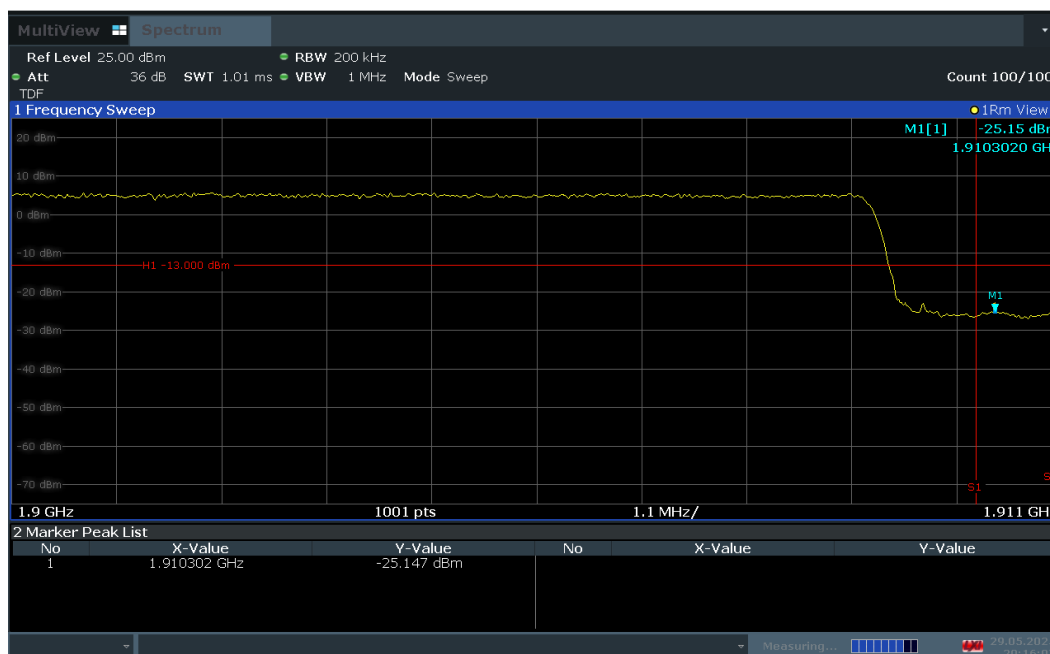
Plot 7-92. Lower Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 66 of 131

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.

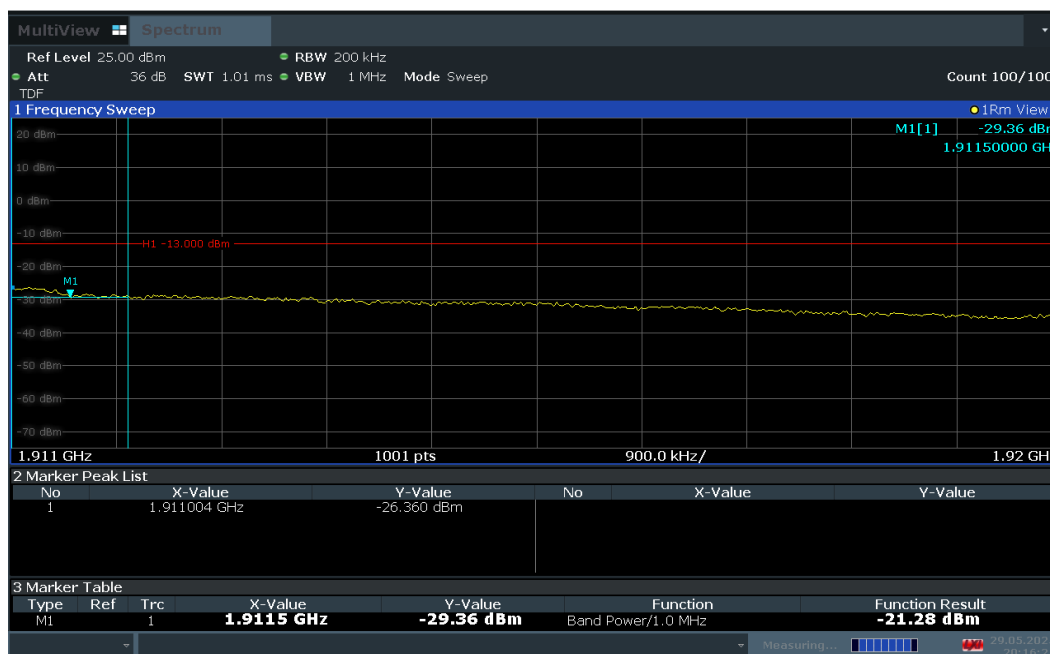
Peak



20:16:07 29.05.2025


Plot 7-93. Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

Peak



20:16:25 29.05.2025

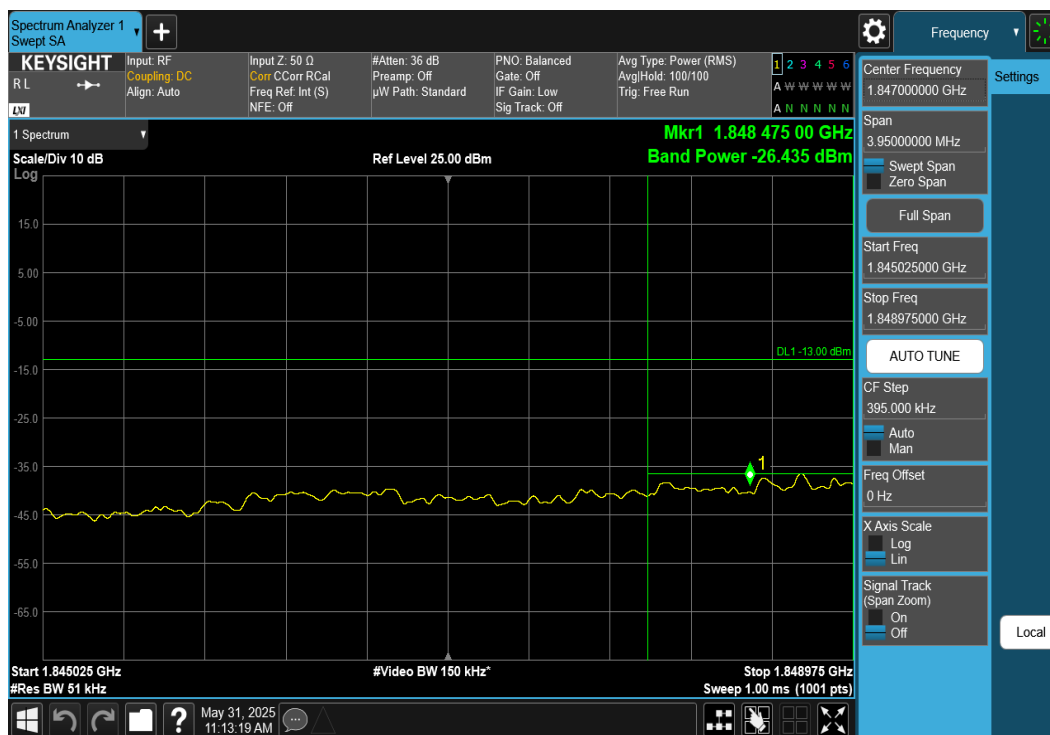
Plot 7-94. Extended Upper Band Edge Plot (LTE Band 2 – 20MHz QPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 67 of 131

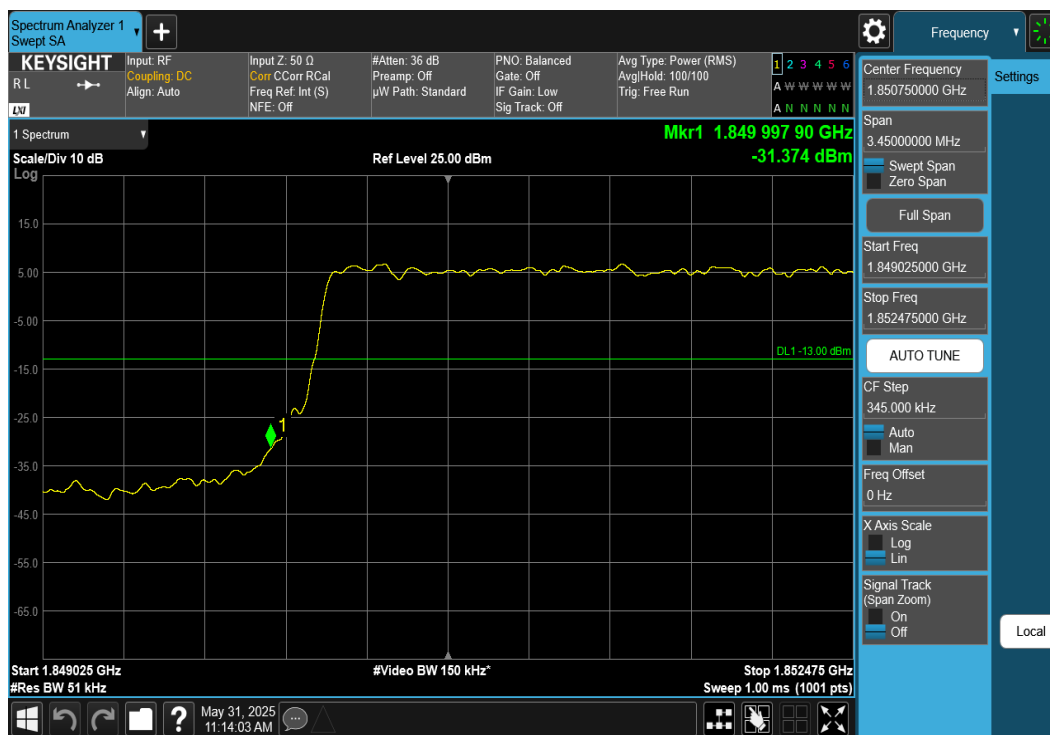
V2.2 09/07/2023

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 n25



Plot 7-95. Extended Lower Band Edge Plot (NR Band n25 – 5MHz DFT-S-OFDM $\pi/2$ BPSK – Full RB Configuration)

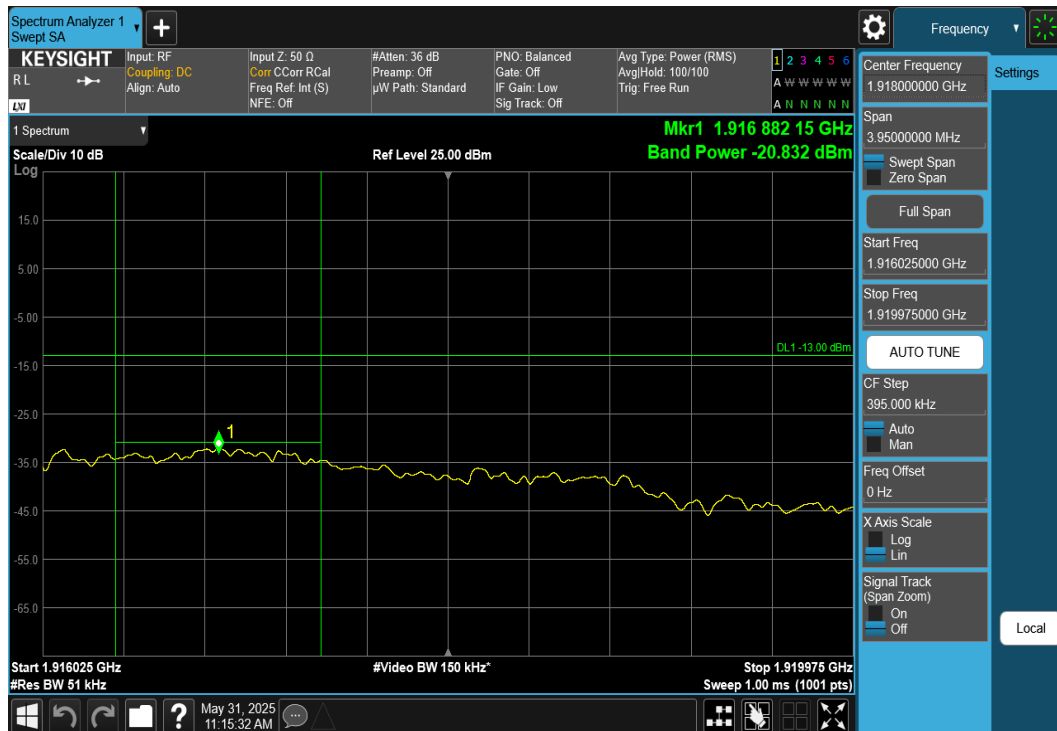



Plot 7-96. Lower Band Edge Plot (NR Band n25 – 5MHz DFT-S-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 68 of 131

V2.2 09/07/2023

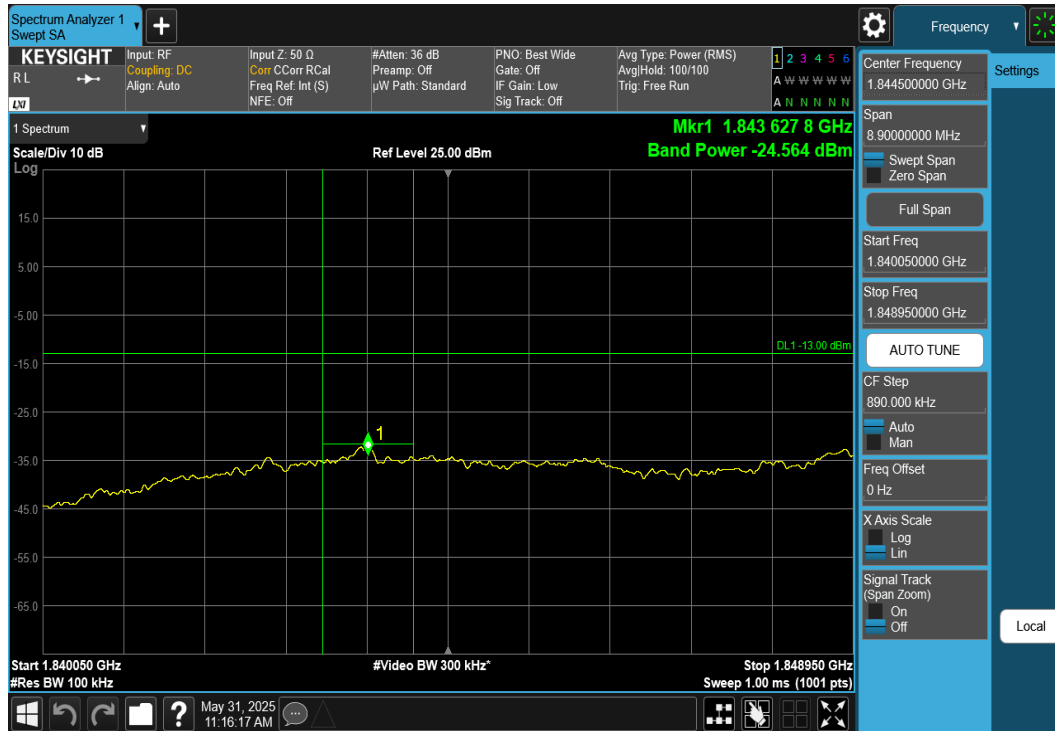
Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry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



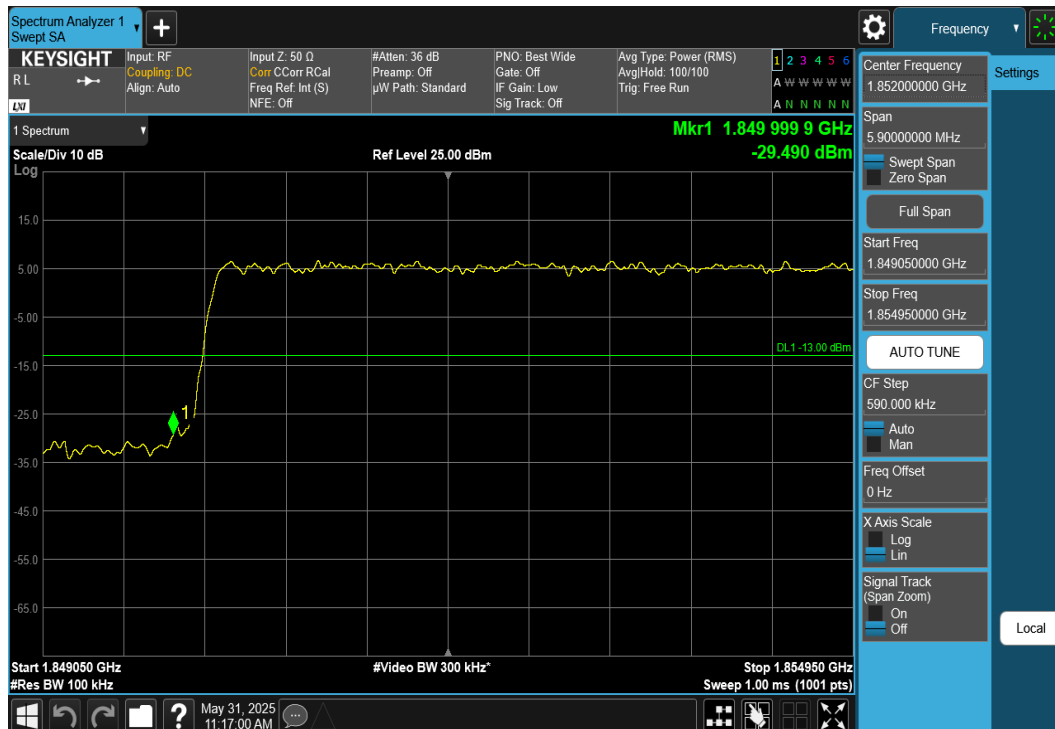
FCC ID: BCG-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 69 of 131

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 7-99. Extended Lower Band Edge Plot (NR Band n25 – 10MHz DFT-S-OFDM $\pi/2$ BPSK – Full RB Configuration)

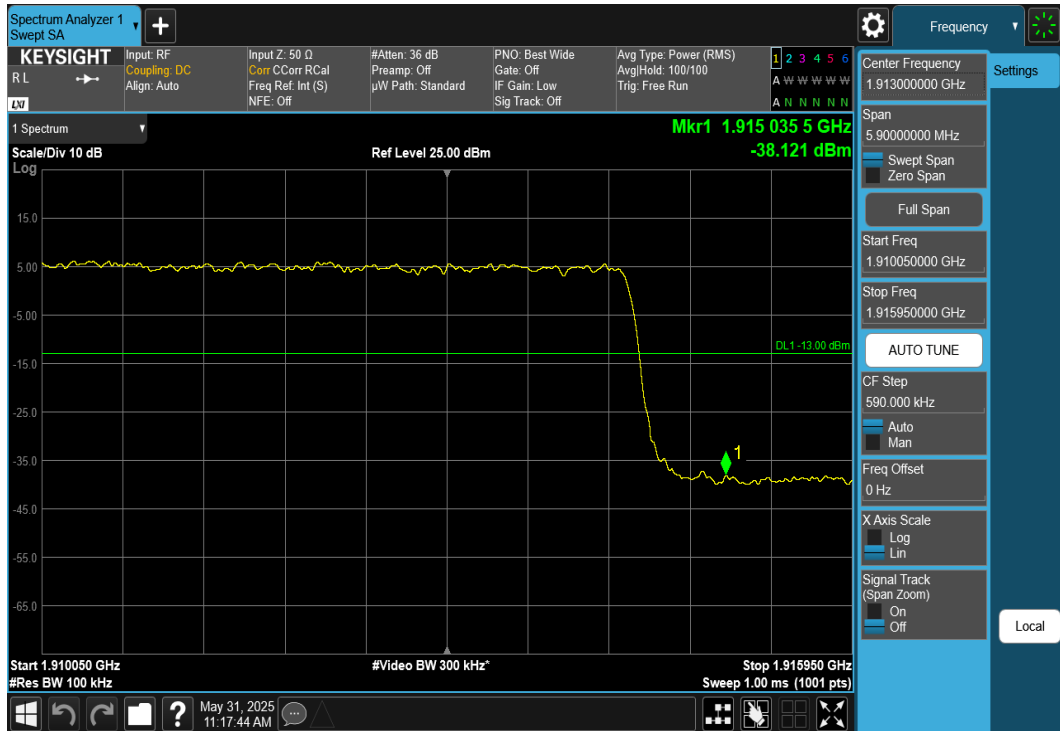



Plot 7-100. Lower Band Edge Plot (NR Band n25 – 10MHz DFT-S-OFDM $\pi/2$ BPSK – Full RB Configuration)

FCC ID: BCG-A3335	element	PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch	Page 70 of 131

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-A3335	 PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N: 1C2503270032-02.BCG	Test Dates: 1/17/2025 - 7/23/2025	EUT Type: Watch
		Page 71 of 131