

FCC and ISED Test Report

Airspan Communications Ltd
Model: 4G/5G GBSS Call Box



In accordance with FCC 47 CFR Part 2 and FCC 47 CFR Part 22G

Prepared for: Airspan Communications Ltd
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SL1 3UF
United Kingdom

FCC ID: O2J-CBATG

COMMERCIAL-IN-CONFIDENCE

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SIGNATURE			
NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Simon Bennett	Technical Director	Authorised Signatory	26 August 2026
Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.			
RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Thomas Biddlecombe	26 August 2026	
	Ahmad Javid	26 August 2026	
EXECUTIVE SUMMARY / ENGINEERING STATEMENT			
A sample of this product was tested and found to be compliant with FCC 47 CFR Part 2: 2024, FCC 47 CFR Part 22G: 2024 for the tests detailed in section 1.3.			

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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
01	First version	10-Jun-2026
02	Correction of FCC ID and model	22-June 2026
03	Update of FCC ID	18-Aug-2026
04	Removing FCC DA 22-657 references from the report	26-Aug-2026

Table 1

1.2 Introduction

Applicant	Airspan Communications Ltd
Manufacturer	Airspan Communications Ltd
Product Marketing Name (PMN) or Host Marketing Name (HMN)	4G/5G GBSS Call Box
Hardware Version Identification Number (HVIN)	908-90-490
Serial Number(s)	F76AA38054B7
Firmware Version Identification Number (FVIN)	Callbox_V1.6
Number of Samples Tested	2
Test Specification/Issue/Date	FCC 47 CFR Part 2: 2024 FCC 47 CFR Part 22G: 2024
Order Number	PO251467
Date	24-February-2026
Date of Receipt of EUT	16-March-2026
Start of Test	18-March-2026
Finish of Test	20-March-2026
Name of Engineer(s)	Thomas Biddlecombe and Ahmad Javid
Related Document(s)	ANSI C63.26 (2015) ANSI C63.4



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 2 and FCC 47 CFR Part 22G is shown below.

Section	Specification Clause		Test Description	Result	Comments/Base Standard
	Part 2	Part 22G			
Configuration and Mode: Transmit					
2.1	2.1047 (d)	-	Modulation Characteristics	Declaration	
2.2	2.1055	22.863	Frequency Stability	Pass	
2.3	2.1046	22.867	Effective Radiated Power	Pass	ANSI C63.26 (2015)
2.4	2.1049	-	Occupied Bandwidth	Pass	ANSI C63.26 (2015)
2.5	2.1051	22.861	Spurious Emission at Antenna Terminals	Pass	ANSI C63.26 (2015)
2.6	2.1053	22.861	Radiated Spurious Emissions	Pass	ANSI C63.26 (2015)

Table 2



1.4 Customer Supplied Form

Equipment Description

Technical Description: (Please provide a brief description of the intended use of the equipment including the technologies the product supports)		4G/5G Small Cell Transportable Base Station.	
Manufacturer:		Airspan	
Product Marketing Name (PMN) or Host Marketing Name (HMN): (If Applicable; HMN is applicable for devices integrating pre-approved modules, otherwise use PMN)		4G/5G GBSS Call Box	
Hardware Version Identification Number (HVIN): (Formally Model Number)		908-90-490	
Firmware Version Identification Number (FVIN)		Callbox_V1.6	
For definitions of the above terms refer to RSS-GEN Section 9.			
FCC ID of the product under test – see guidance here		O2J-CBATG	
IC ID of the product under test – see guidance here		N/A	
Device Category	Mobile ☒	Portable ☐	Fixed ☐
Equipment is fitted with an Audio Low Pass Filter		Yes ☐	No ☒

Table 3

Intentional Radiators

Technology	OFDMA	CP-OFDM
Frequency Range (MHz to MHz)	849MHz - 851MHz	2430 – 2483.5 MHz
Conducted Declared Output Power (dBm)	20dBm	20dBm
Antenna Gain (dBi)	2.16dBi	2.8dBi
Supported Bandwidth(s) (MHz) (e.g. 1 MHz, 20 MHz, 40 MHz)	1.615MHz	50MHz
Modulation Scheme(s) (e.g. GFSK, QPSK etc)	QPSK / 16 QAM / 64 QAM	QPSK / 16 QAM / 64 QAM
ITU Emission Designator (see guidance here) (not mandatory for Part 15 devices)	1M61W7D	50M0W7W
Bottom Frequency (MHz)	N/A	N/A
Middle Frequency (MHz)	850	2455
Top Frequency (MHz)	N/A	N/A

Table 4

Un-intentional Radiators

Highest frequency generated or used in the device or on which the device operates or tunes	5.5GHz
Lowest frequency generated or used in the device or on which the device operates or tunes	38.4MHz
Class A Digital Device (Use in commercial, industrial or business environment) ☒	
Class B Digital Device (Use in residential environment only) ☐	

Table 5

AC Power Source

AC supply frequency:	47- 63	Hz
Voltage	100 - 240	V
Max current:	10 @ 100V, 5 @ 240V	A
Single Phase ☒ Three Phase ☐		

Table 6

DC Power Source

Nominal voltage:		V
Extreme upper voltage:		V
Extreme lower voltage:		V
Max current:		A

Table 7

Battery Power Source

Voltage:		V
End-point voltage:		V (Point at which the battery will terminate)
Alkaline ☐ Leclanche ☐ Lithium ☐ Nickel Cadmium ☐ Lead Acid* ☐ *(Vehicle regulated)		
Other ☐	Please detail:	

Table 8

Charging

Can the EUT transmit whilst being charged	Yes ☐ No ☒
---	---

Table 9

Temperature

Minimum temperature:	-5	°C
Maximum temperature:	40	°C

Table 10



Cable Loss

Adapter Cable Loss (Conducted sample)	N/A	dB
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Table 11

Antenna Characteristics

Antenna connector ☒			State impedance	50	Ohm
Temporary antenna connector ☐			State impedance		Ohm
Integral antenna ☐	Type:		Gain		dBi
External antenna ☒	Type:		Gain	Up to 2.8	dBi
For external antenna only: Standard Antenna Jack ☒ If yes, describe how user is prohibited from changing antenna (if not professional installed): Equipment is only ever professionally installed ☒ Non-standard Antenna Jack ☐ All part 15 applications will need to show how the antenna gain was derived either from a manufacturer data sheet or a measurement. Where the gain of the antenna is inherently accounted for as a result of the measurement, such as field strength measurements on a part 15.249 or 15.231 device, so the gain does not necessarily need to be verified. However, enough information regarding the construction of the antenna shall be provided. Such information maybe photographs, length of wire antenna etc.					

Table 12

Ancillaries (if applicable)

Manufacturer:		Part Number:	
Model:		Country of Origin:	

Table 13

I hereby declare that the information supplied is correct and complete.

Name: Robert Butler
Position held: Principal Hardware Design Engineer
Date: 04/03/2026



1.5 Product Information

1.5.1 Technical Description

4G/5G Small Cell Transportable Base Station.

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme.

The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
Model: 4G/5G GBSS Call Box, F76AA38054B7			
1	Adjustment of internal attenuators.	Customer	18-March-2026
Model: 4G/5G GBSS Call Box, F76AA38054B7			
0	As supplied by the customer	Not Applicable	Not Applicable

Table 14

1.8 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Configuration and Mode: Transmit		
Frequency Stability	Thomas Biddlecombe	UKAS
Effective Radiated Power	Thomas Biddlecombe	UKAS
Occupied Bandwidth	Thomas Biddlecombe	UKAS
Spurious Emission at Antenna Terminals	Thomas Biddlecombe	UKAS
Radiated Spurious Emissions	Ahmad Javid	UKAS

Table 15

Laboratory Address:

TÜV SÜD,
Octagon House,
Concorde Way,
Fareham,
Hampshire,
PO15 5RL,
United Kingdom

2 Test Details

2.1 Modulation Characteristics

2.1.1 Specification Reference

FCC 47 CFR Part 2 Clause 2.1047 (d)

2.1.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7- Modification State 1

2.1.3 Date of Test

20/03/2026

2.1.4 Test Method

The test was performed in accordance with KDB 971168 D01 v02r02, Clause 3.

2.1.5 Environmental Conditions

Ambient Temperature: 19.4 °C

Relative Humidity: 29.8 %

2.1.6 Test Results

Airspan Communications Ltd use digital modulation, as shown below:

Test case	Test mode	Modulation
4G		
4G-A	E-TM1.1	QPSK
4G-B	E-TM3.1	64-QAM
4G-C	E-TM3.2	16-QAM
5G		
5G-A	FR1-TM1.1	QPSK
5G-B	FR1-TM3.1	64-QAM
5G-C	FR1-TM3.3b	16-QAM

FCC 47 CFR Part 2, Limit Clause 2.1047 (d)

A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.



2.2 Frequency Stability

2.2.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1055
FCC 47 CFR Part 22G, Clause 22.863

2.2.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7 - Modification State 1

2.2.3 Date of Test

19-March-2026 to 20-March-2026

2.2.4 Test Method

ANSI C63.26, clause 5.6.

The equipment under test (EUT) was placed within a climatic chamber and the temperature was raised to +50°C and allowed to stabilise. The EUT was configured to transmit a modulated carrier and using the 99% occupied bandwidth function the lower and upper points of the bandwidth were recorded to ensure the emission remained within the authorised frequency range. The temperature was then reduced by 10 degrees and the measurement repeated until the lower temperature range of -30°C.

At +20 °C, the voltage was also varied to 85% and 115% of the nominal value declared by the applicant.

EUT was powered by an AC PSU at the stated voltages.

2.2.5 Environmental Conditions

Ambient Temperature: 19.4 - 19.6 °C
Relative Humidity: 29.8 - 32.4 %

2.2.6 Test Results

Transmit

Temperature (°C)	Voltage	FL (MHz)	FC (MHz)	FU (MHz)	Error (ppm)
50 °C	120	849.336882	849.998619	850.660356	-1.625
40 °C	120	849.336650	849.998301	850.659952	-1.999
30 °C	120	849.339412	849.999075	850.658738	-1.088
20 °C	120	849.339524	850.000103	850.660682	0.121
10 °C	120	849.339764	850.001416	850.663068	1.666
0 °C	120	849.337566	850.001600	850.665634	1.882
-10 °C	120	849.337402	850.001192	850.664982	1.402
-20 °C	120	849.337968	850.001187	850.664406	1.396
-30 °C	120	849.341476	850.002444	850.663412	2.875

Table 16 - Frequency Stability Under Temperature Variations

Temperature (°C)	Voltage	FL (MHz)	FC (MHz)	FU (MHz)	Error (ppm)
20 °C	85	849.340370	850.000492	850.660614	0.579
20 °C	276	849.338636	850.000014	850.661392	0.016

Table 17 - Frequency Stability Under Voltage Variations

where:

F_L = Lower point containing 99% of occupied bandwidth.

F_U = Upper point containing 99% of occupied bandwidth.

$F_C = (F_U + F_L) / 2$

FCC 47 CFR Part 22, Limit Clause 22.863

The frequency stability of equipment used under this subpart shall be sufficient to ensure that, after accounting for Doppler frequency shifts, the occupied bandwidth of the fundamental emissions remains within the authorized frequency bands of operation.



2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
Thermocouple Thermometer	Fluke	51	3173	12	17-Jun-2026
AC Programmable Power Supply	iTech	IT7324	5227	-	O/P Mon
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Climatic Chamber	Weiss Technik	TempEvent T/180/40/3	5894	-	O/P Mon
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/B	6023	12	06-Jun-2026
20dB 10W/18GHz F/M SMA bidirectional Attenuator	Weinschel	WA41-20-0102	7027	12	06-Jun-2026

Table 18

O/P Mon – Output Monitored using calibrated equipment.



2.3 Effective Radiated Power

2.3.1 Specification Reference

FCC 47 CFR Part 22G, Clause 22.867
FCC 47 CFR Part 2, Clause 2.1046

2.3.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7- Modification State 1

2.3.3 Date of Test

18-March-2026

2.3.4 Test Method

This test was performed in accordance with ANSI C63.26, clause 5.2.4.4.1.

The EUT was powered by 120 VAC.

2.3.5 Environmental Conditions

Ambient Temperature: 20.0 °C
Relative Humidity: 40.4 %

2.3.6 Test Results

Transmit

Frequency (MHz)	Conducted Power (dBm)		Ant Gain (dBi)	System Loss (dB)	ERP (dBm)
	Port V	Port H			
850.0	19.660	19.985	2.16	0	22.85

Table 19 - ERP Results, QPSK

Frequency (MHz)	Conducted Power (dBm)		Ant Gain (dBi)	System Loss (dB)	ERP (dBm)
	Port V	Port H			
850.0	19.739	20.022	2.16	0	22.90

Table 20 - ERP Results, 16-QAM

Frequency (MHz)	Conducted Power (dBm)		Ant Gain (dBi)	System Loss (dB)	ERP (dBm)
	Port V	Port H			
850.0	19.738	19.957	2.16	0	22.87

Table 21 - ERP Results, 64-QAM

FCC 47 CFR Part 22, Limit Clause 22.867 (a)

The peak ERP of airborne mobile station transmitters must not exceed 12 Watts.

The measured ERP results demonstrate compliance with the requirements of FCC 47 CFR 22.867.



2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/B	6023	12	06-Jun-2026
20dB 10W/18GHz F/M SMA bidirectional Attenuator	Weinschel	WA41-20-0102	7027	12	06-Jun-2026

Table 22

O/P Mon – Output Monitored using calibrated equipment.



2.4 Occupied Bandwidth

2.4.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1049

2.4.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7- Modification State 1

2.4.3 Date of Test

18-March-2026

2.4.4 Test Method

This test was performed in accordance with ANSI C63.26, clause 5.4.3 for the 26 dB BW measurement and clause 5.4.4 for the 99% BW measurement.

The EUT was powered by 120 VAC.

2.4.5 Environmental Conditions

Ambient Temperature: 20.0 °C

Relative Humidity: 40.4 %



2.4.6 Test Results

Transmit

Frequency (MHz)	Modulation	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
850.0 (Port H)	QPSK	1.0848	1.176
850.0 (Port H)	16-QAM	1.0823	1.164
850.0 (Port H)	64-QAM	1.0839	1.169
850.0 (Port V)	QPSK	1.0852	1.158
850.0 (Port V)	16-QAM	1.0822	1.164
850.0 (Port V)	64-QAM	1.0832	1.165

Table 23 - Occupied Bandwidth Results



Figure 1 - 850.0 (Port H) MHz, QPSK



Figure 2 - 850.0 (Port H) MHz, 16-QAM



Figure 3 - 850.0 (Port H) MHz, 64-QAM



Figure 4 - 850.0 (Port V) MHz, QPSK



Figure 5 - 850.0 (Port V) MHz, 16-QAM



Figure 6 - 850.0 (Port V) MHz, 64-QAM

FCC 47 CFR Part 2, Limit Clause 2.1049

None stated.



2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/B	6023	12	06-Jun-2026
20dB 10W/18GHz F/M SMA bidirectional Attenuator	Weinschel	WA41-20-0102	7027	12	06-Jun-2026

Table 24

O/P Mon – Output Monitored using calibrated equipment



2.5 Spurious Emission at Antenna Terminals

2.5.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1051
FCC 47 CFR Part 22G, Clause 22.861

2.5.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7 - Modification State 1

2.5.3 Date of Test

18-March-2026

2.5.4 Test Method

This test was performed in accordance with ANSI C63.26, clause 5.7.

The limit was reduced by $10 \cdot \log(N)$, where N = Number of antenna ports.

$10 \cdot \log(2) = 3$ dB.

For the upper band results, where RBW was reduced, a band power marker was used to integrate across the correct bandwidth.

EUT was powered by 120 VAC.

2.5.5 Environmental Conditions

Ambient Temperature: 20.0 °C
Relative Humidity: 40.4 %



Figure 8 - 850.0 MHz, QPSK, Band Edge Frequency: 851 MHz. Sector 1 (Port V)

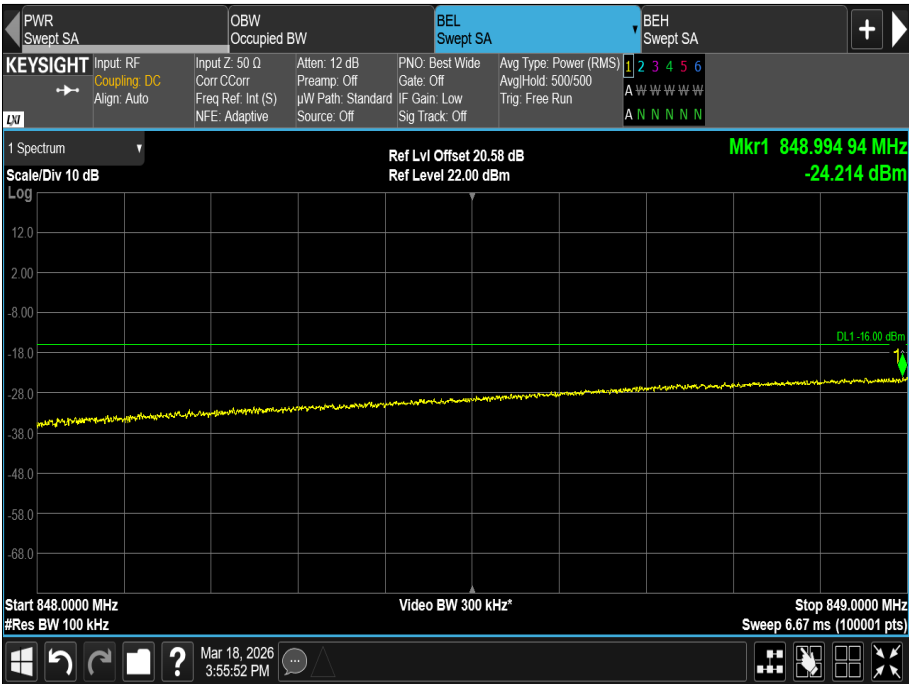


Figure 9 - 850.0 MHz, 16-QAM, Band Edge Frequency: 849 MHz. Sector 1 (Port V)



Figure 10 - 850.0 MHz, 16-QAM, Band Edge Frequency: 851 MHz. Sector 1 (Port V)



Figure 11 - 850.0 MHz, 64-QAM, Band Edge Frequency: 849 MHz. Sector 1 (Port V)



Figure 12 - 850.0 MHz, 64-QAM, Band Edge Frequency: 851 MHz. Sector 1 (Port V)

Carrier Frequency (MHz)	Modulation	Band Edge Frequency (MHz)	Result at Band Edge (dBm)	Limit (dBm)	Margin (dB)
850.0	QPSK	849	-22.374	-16	-6.374
850.0	QPSK	851	-23.156	-23	-0.156
850.0	16-QAM	849	-22.985	-16	-6.985
850.0	16-QAM	851	-23.156	-23	-0.156
850.0	64-QAM	849	-22.599	-16	-6.599
850.0	64-QAM	851	-23.264	-23	-0.264

Table 26 - Band Edge Results, Sector 1 (Port H)

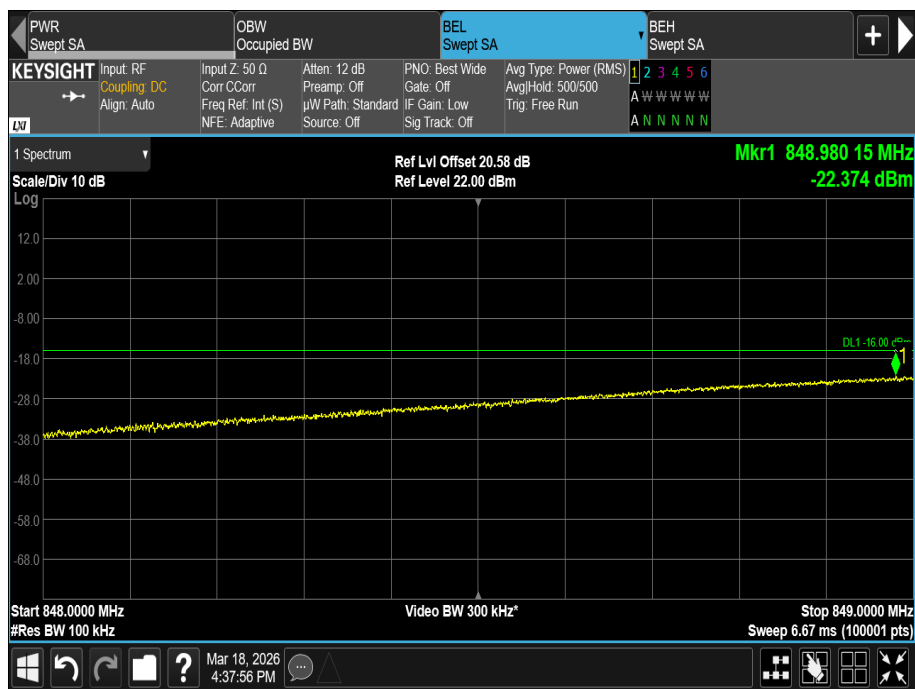


Figure 13 - 850.0 MHz, QPSK, Band Edge Frequency: 849 MHz. Sector 1 (Port H)



Figure 14 - 850.0 MHz, QPSK, Band Edge Frequency: 851 MHz. Sector 1 (Port H)

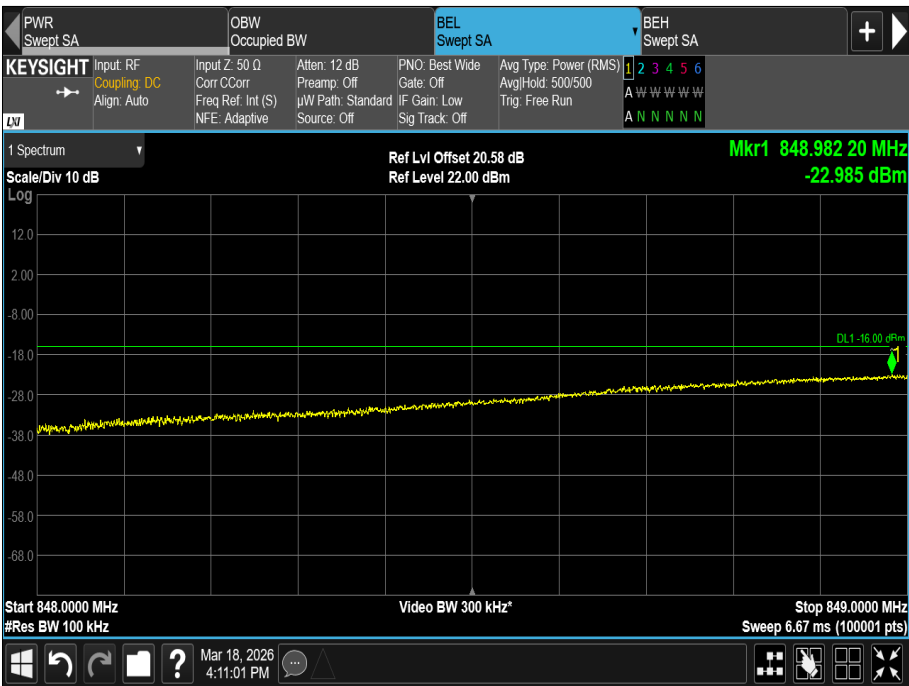


Figure 15 - 850.0 MHz, 16-QAM, Band Edge Frequency: 849 MHz. Sector 1 (Port H)



Figure 16 - 850.0 MHz, 16-QAM, Band Edge Frequency: 851 MHz. Sector 1 (Port H)

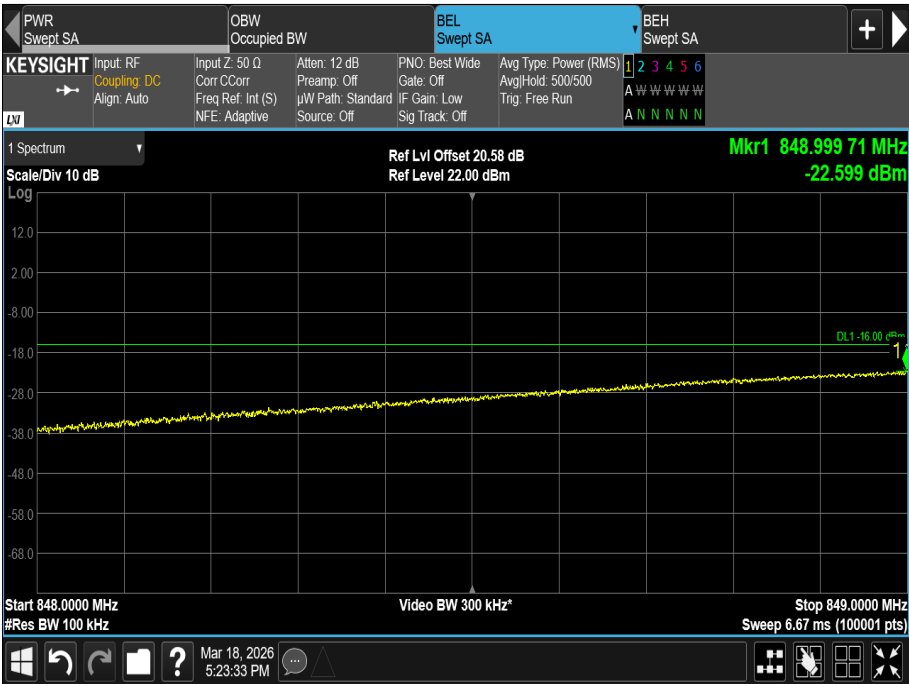


Figure 17 - 850.0 MHz, 64-QAM, Band Edge Frequency: 849 MHz. Sector 1 (Port H)



Figure 18 - 850.0 MHz, 64-QAM, Band Edge Frequency: 851 MHz. Sector 1 (Port H)



Carrier Frequency (MHz)	Modulation	Emission Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
*					

Table 27 - Conducted Spurious Emissions Results, Sector 1 (Port V)

*No emissions were found within 10 dB of the limit.

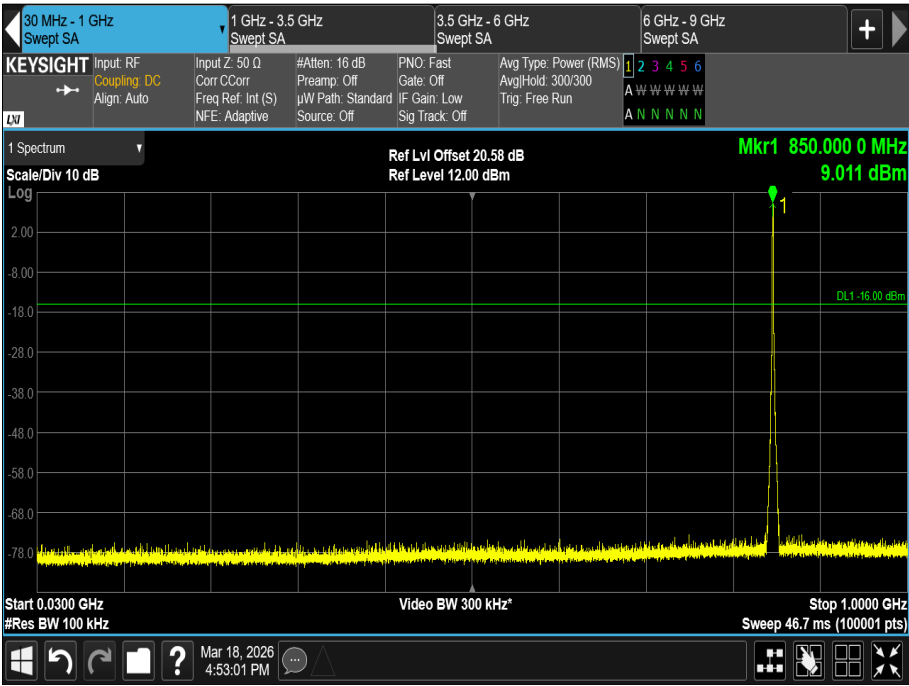


Figure 19 - 850.0 MHz, QPSK, 30 MHz to 1 GHz, Sector 1 (Port V)

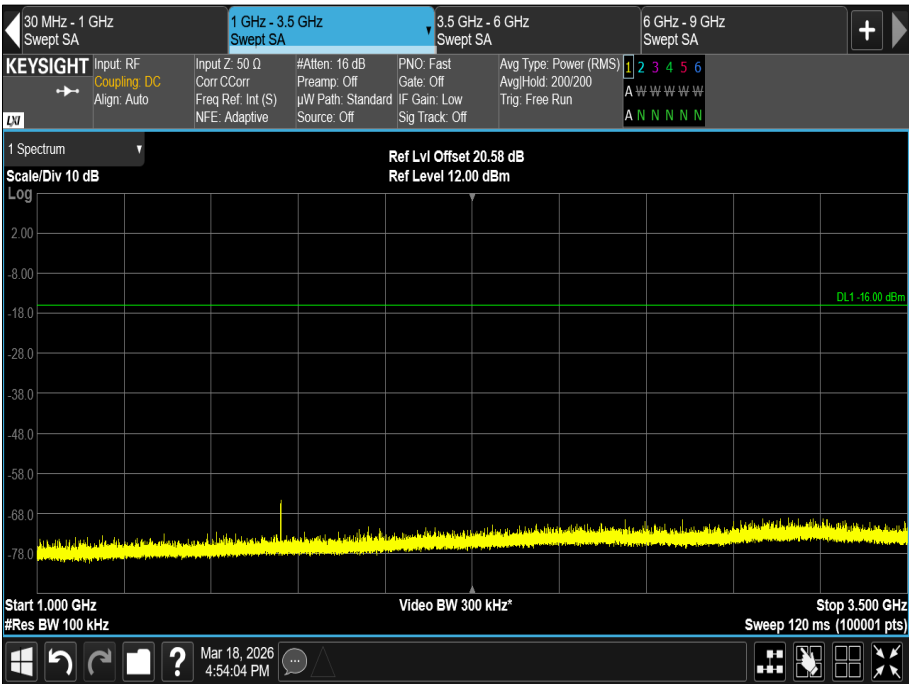


Figure 20 - 850.0 MHz, QPSK, 1 GHz to 3.5 GHz, Sector 1 (Port V)

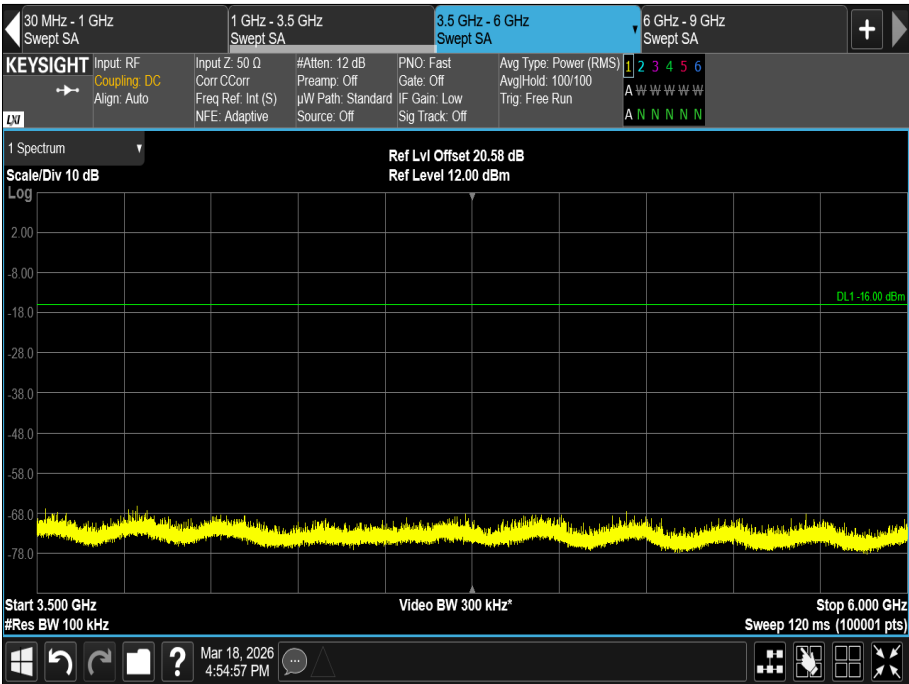


Figure 21 - 850.0 MHz, QPSK, 3.5 GHz to 6 GHz, Sector 1 (Port V)

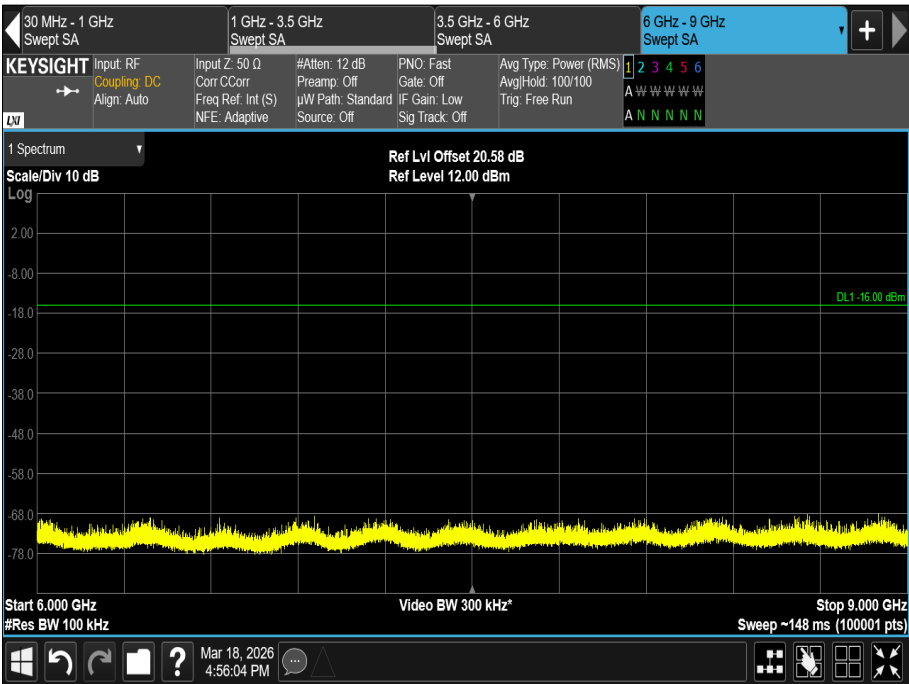


Figure 22 - 850.0 MHz, QPSK, 6 GHz to 9 GHz, Sector 1 (Port V)

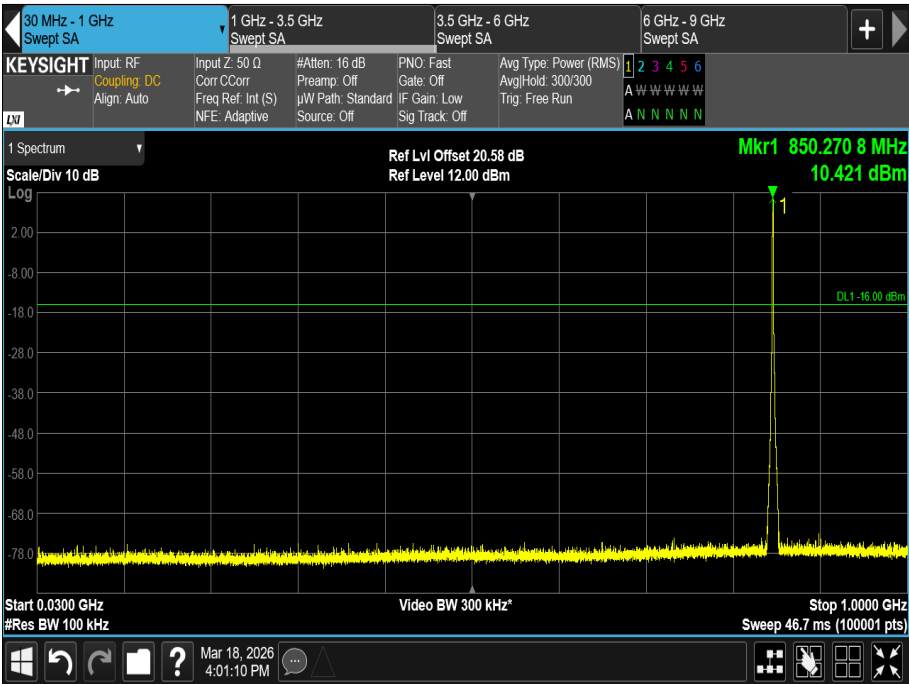


Figure 23 - 850.0 MHz, 16-QAM, 30 MHz to 1 GHz, Sector 1 (Port V)

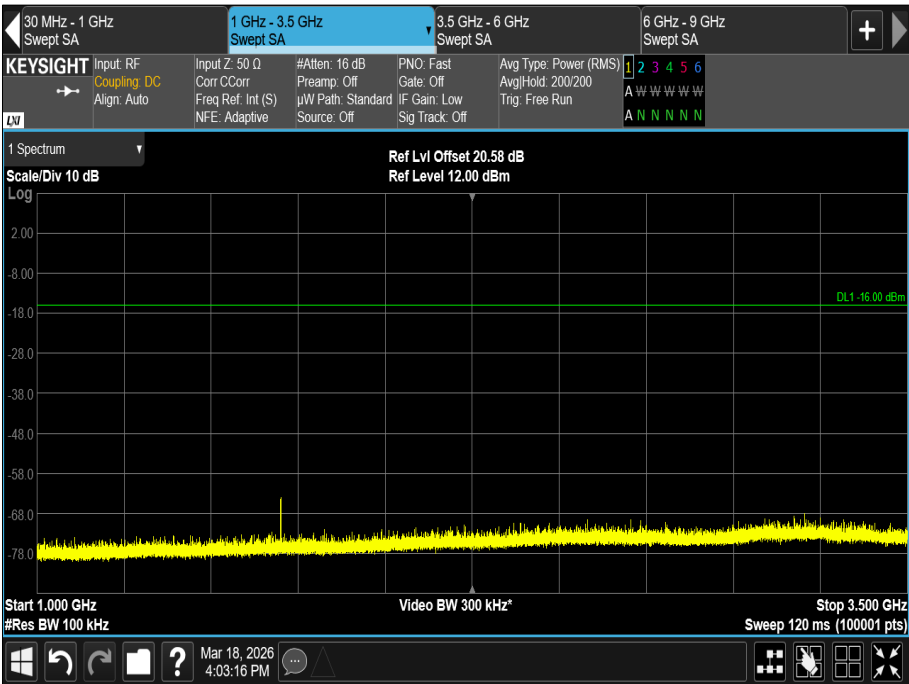


Figure 24 - 850.0 MHz, 16-QAM, 1 GHz to 3.5 GHz, Sector 1 (Port V)

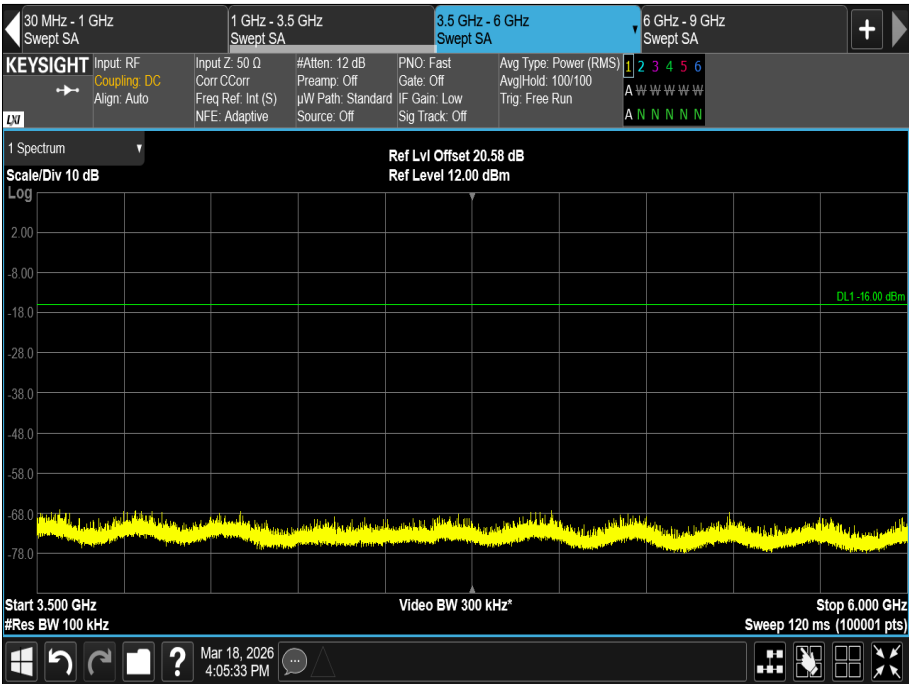


Figure 25 - 850.0 MHz, 16-QAM, 3.5 GHz to 6 GHz, Sector 1 (Port V)

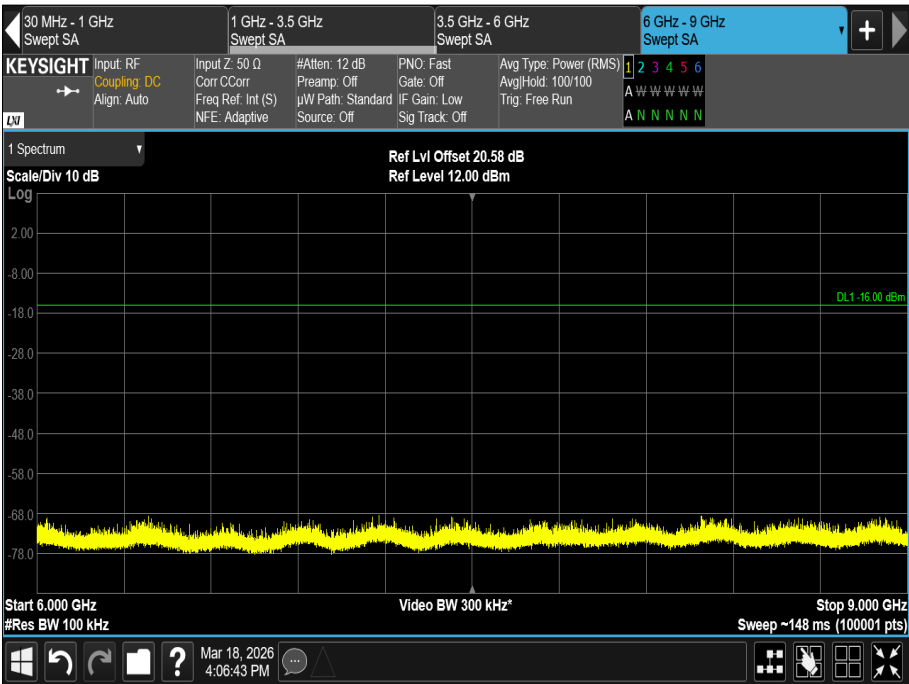


Figure 26 - 850.0 MHz, 16-QAM, 6 GHz to 9 GHz, Sector 1 (Port V)

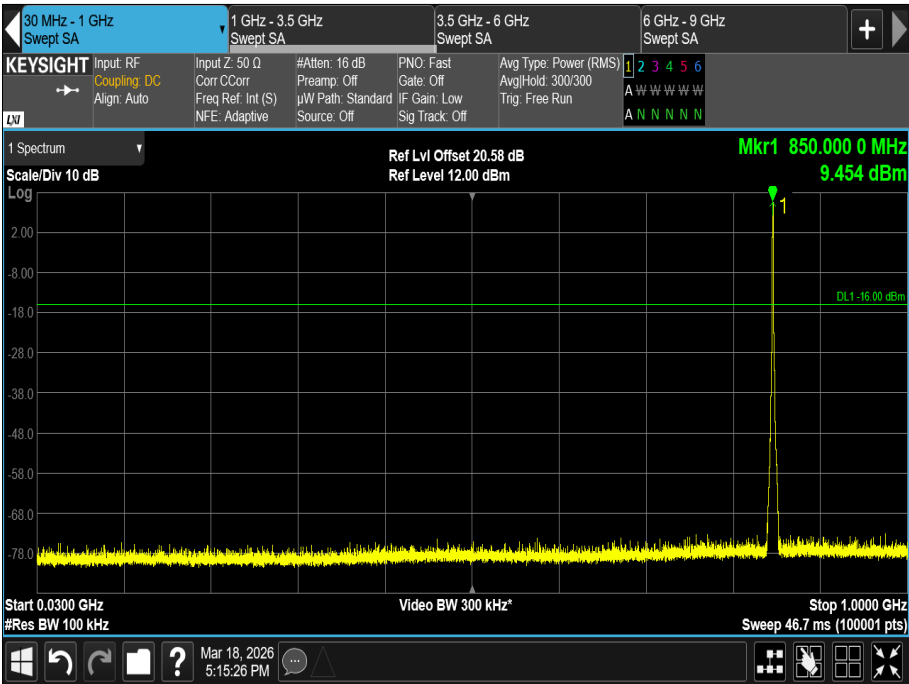


Figure 27 - 850.0 MHz, 64-QAM, 30 MHz to 1 GHz, Sector 1 (Port V)

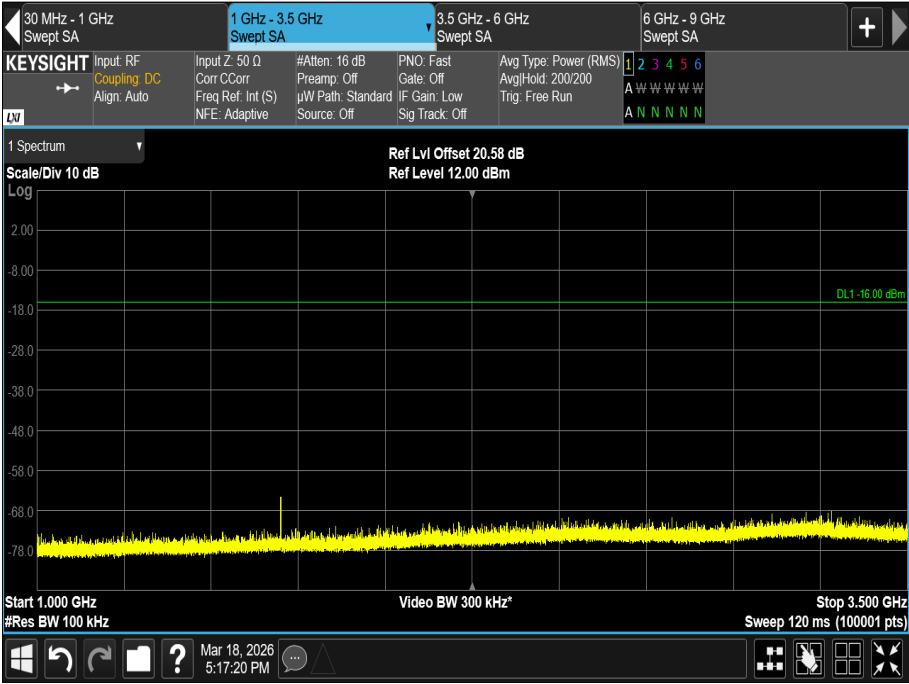


Figure 28 - 850.0 MHz, 64-QAM, 1 GHz to 3.5 GHz, Sector 1 (Port V)

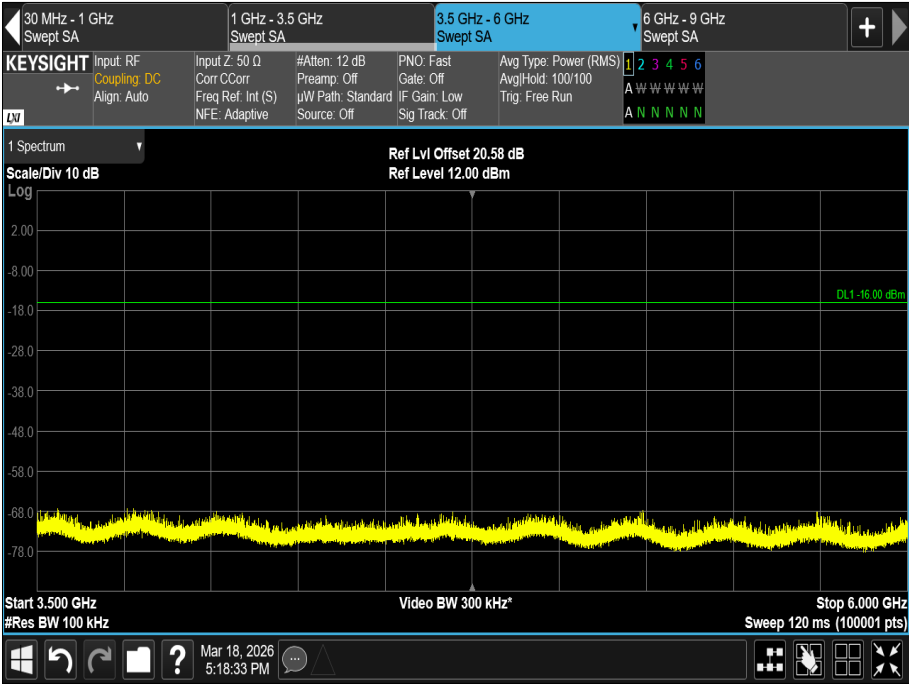


Figure 29 - 850.0 MHz, 64-QAM, 3.5 GHz to 6 GHz, Sector 1 (Port V)

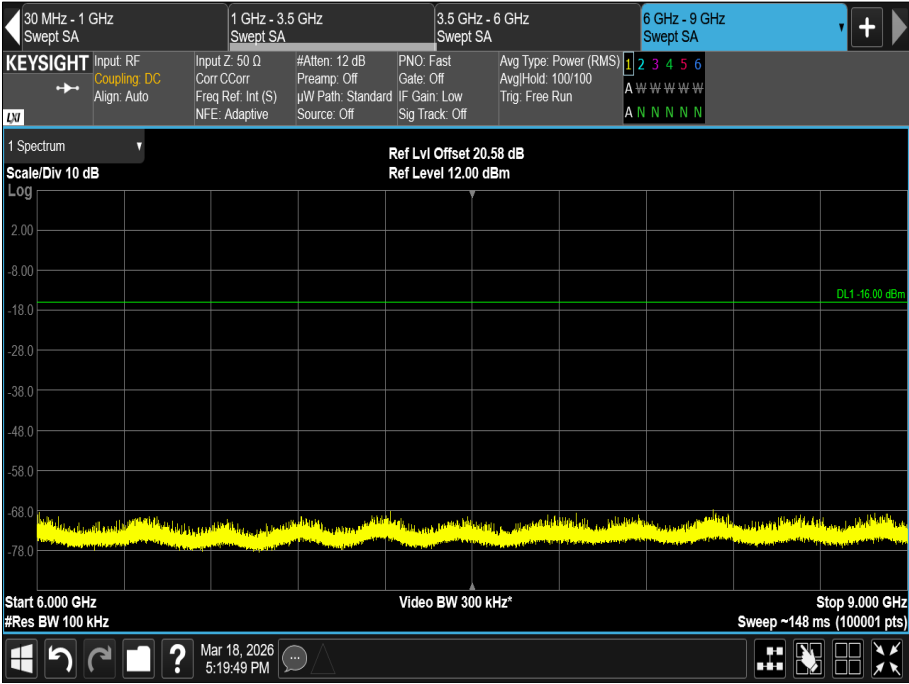


Figure 30 - 850.0 MHz, 64-QAM, 6 GHz to 9 GHz, Sector 1 (Port V)



Carrier Frequency (MHz)	Modulation	Emission Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
*					

Table 28 - Conducted Spurious Emissions Results, Sector 1 (Port H)

*No emissions were found within 10 dB of the limit.

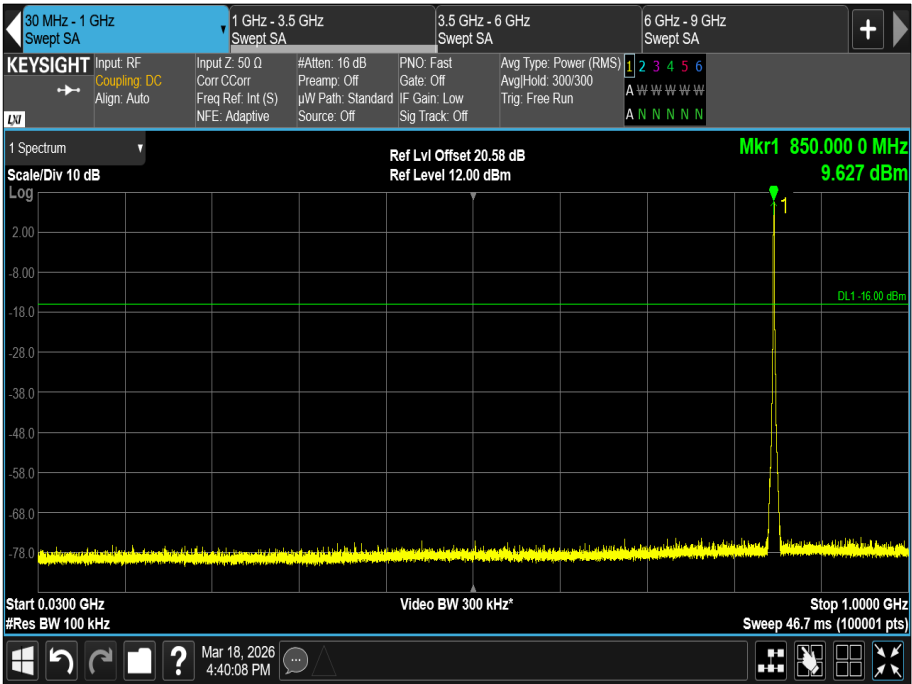


Figure 31 - 850.0 MHz, QPSK, 30 MHz to 1 GHz, Sector 1 (Port H)

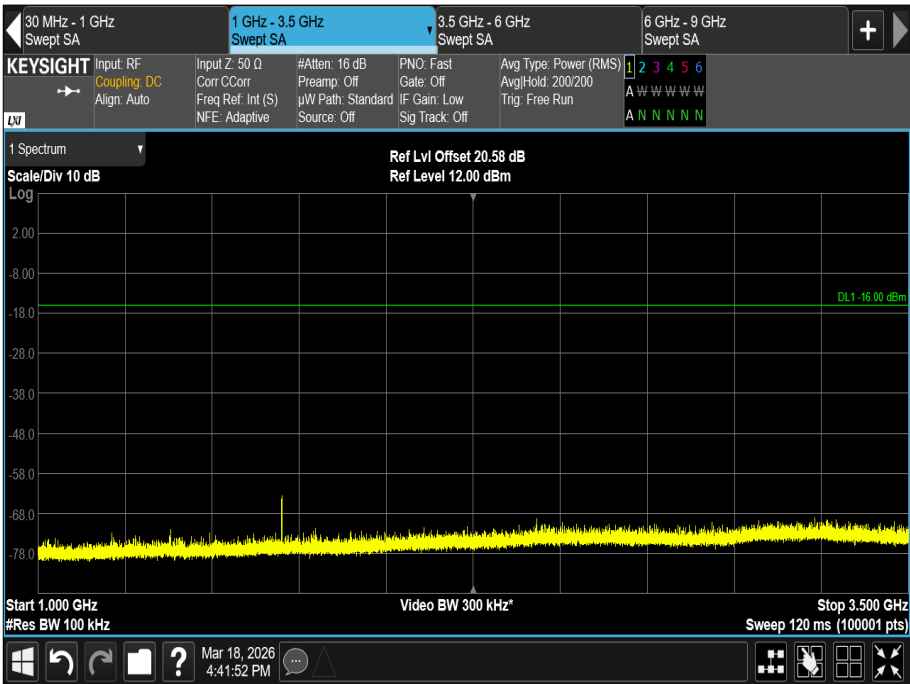


Figure 32 - 850.0 MHz, QPSK, 1 GHz to 3.5 GHz, Sector 1 (Port H)

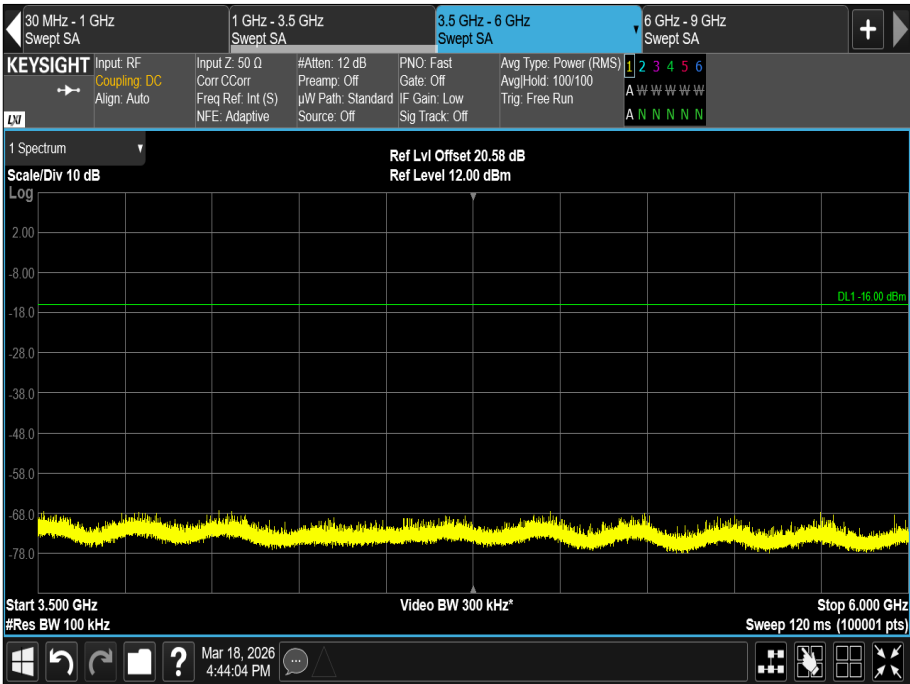


Figure 33 - 850.0 MHz, QPSK, 3.5 GHz to 6 GHz, Sector 1 (Port H)

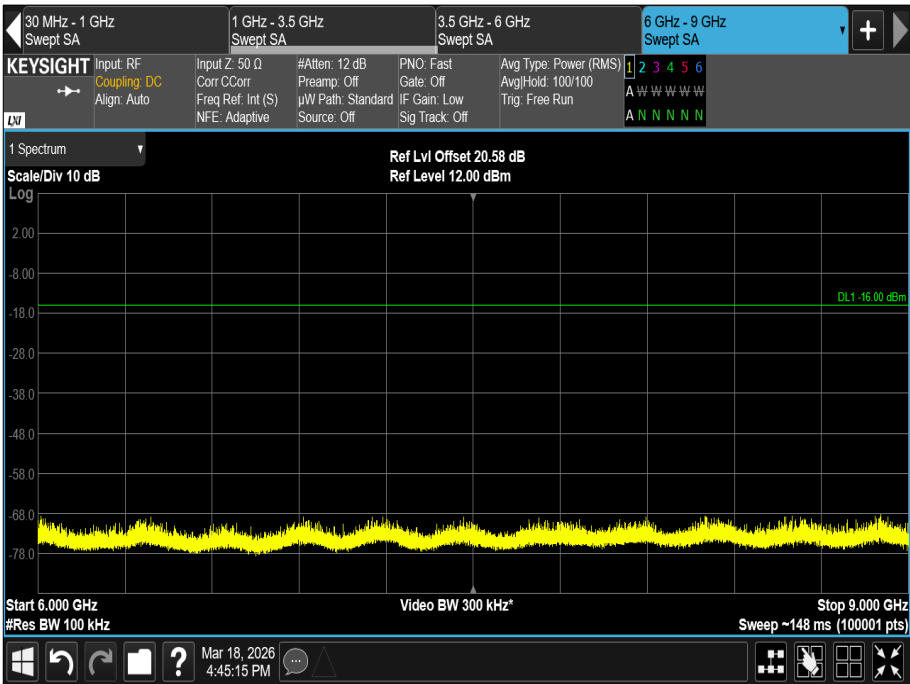


Figure 34 - 850.0 MHz, QPSK, 6 GHz to 9 GHz, Sector 1 (Port H)

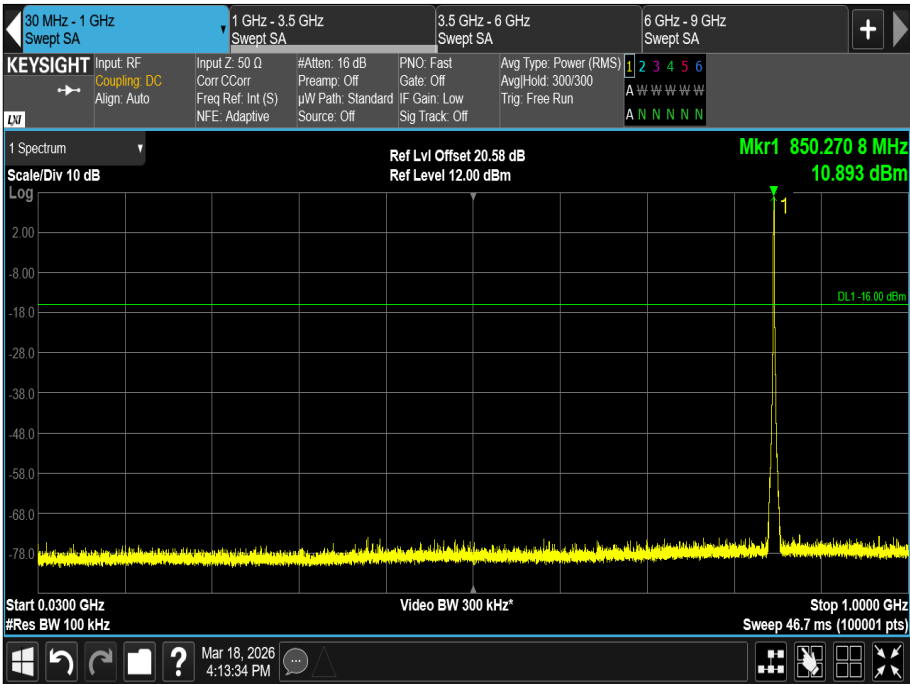


Figure 35 - 850.0 MHz, 16-QAM, 30 MHz to 1 GHz, Sector 1 (Port H)

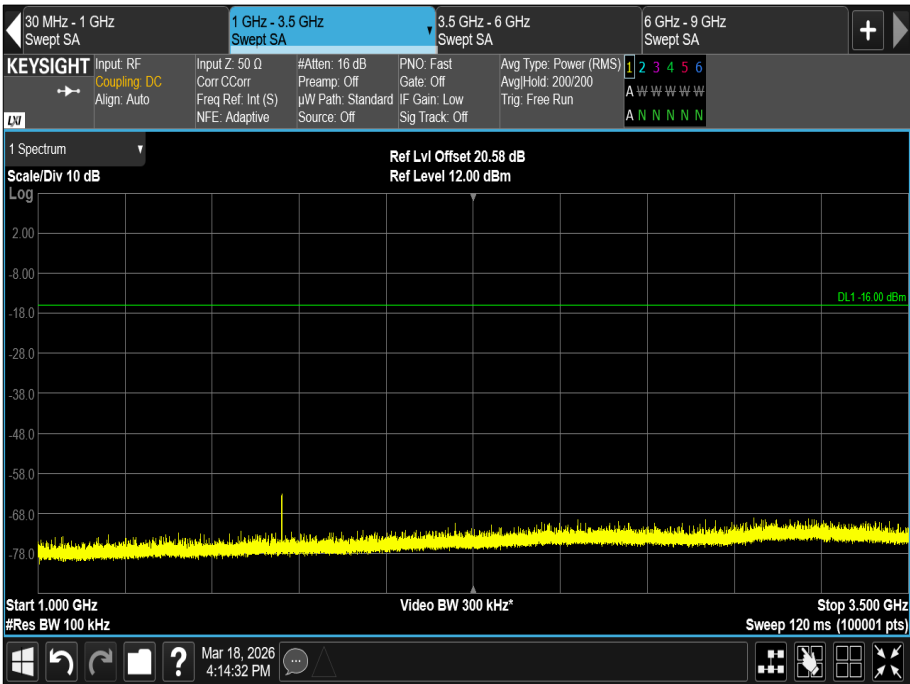


Figure 36 - 850.0 MHz, 16-QAM, 1 GHz to 3.5 GHz, Sector 1 (Port H)

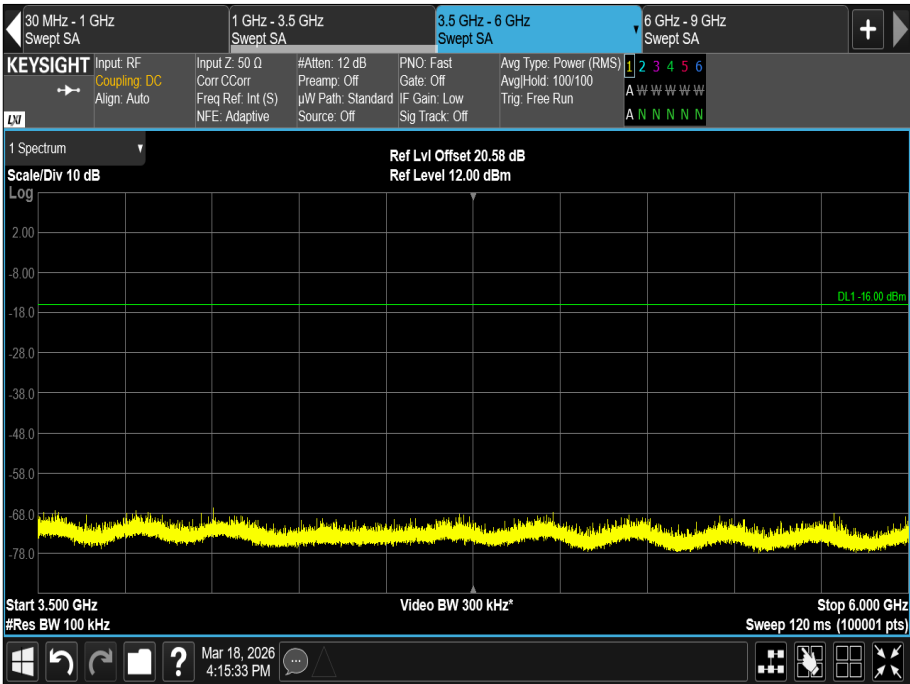


Figure 37 - 850.0 MHz, 16-QAM, 3.5 GHz to 6 GHz, Sector 1 (Port H)

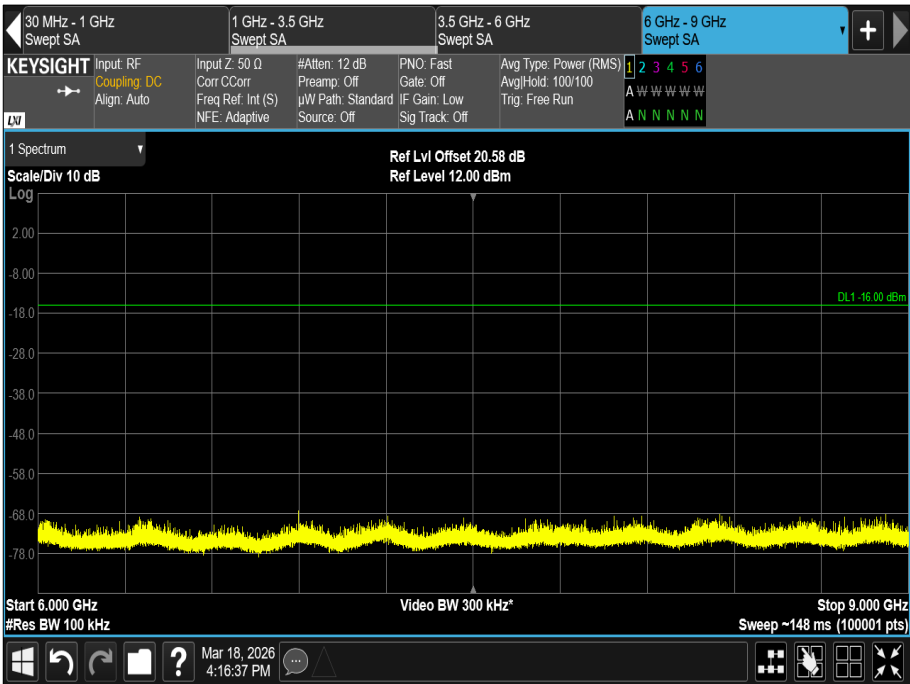


Figure 38 - 850.0 MHz, 16-QAM, 6 GHz to 9 GHz, Sector 1 (Port H)

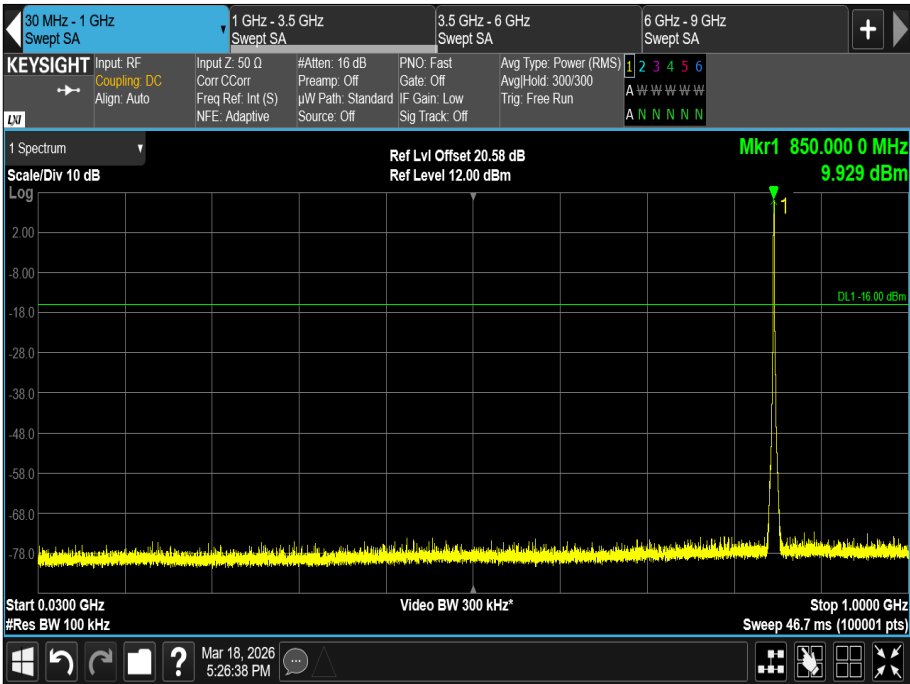


Figure 39 - 850.0 MHz, 64-QAM, 30 MHz to 1 GHz, Sector 1 (Port H)

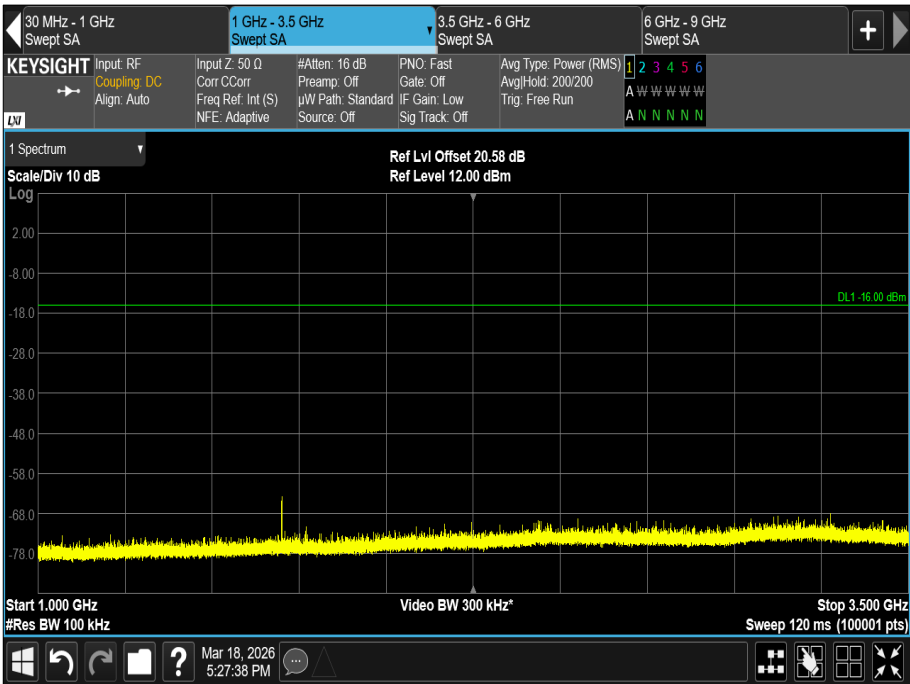


Figure 40 - 850.0 MHz, 64-QAM, 1 GHz to 3.5 GHz, Sector 1 (Port H)

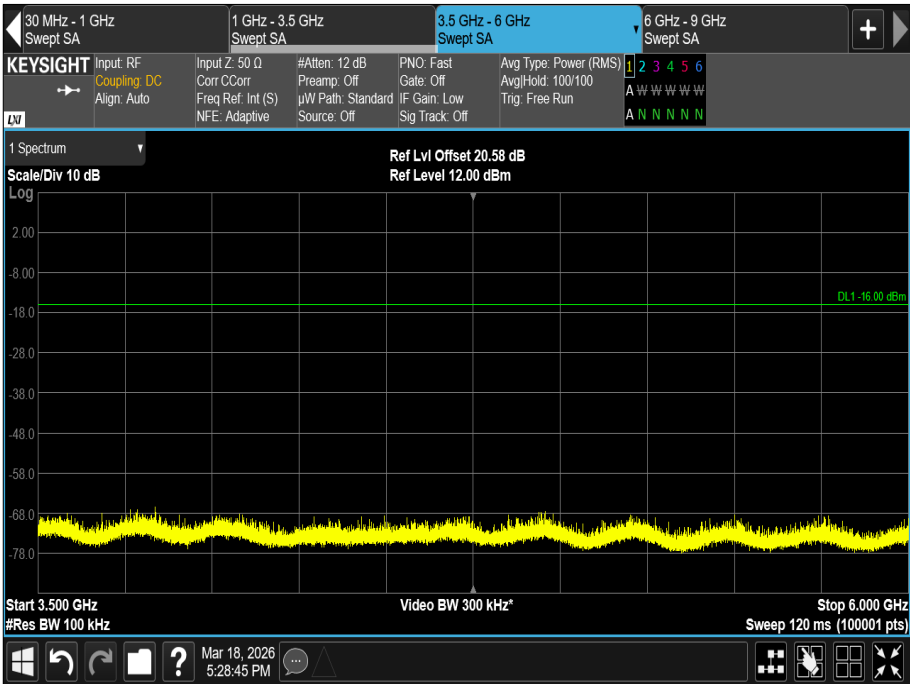


Figure 41 - 850.0 MHz, 64-QAM, 3.5 GHz to 6 GHz, Sector 1 (Port H)

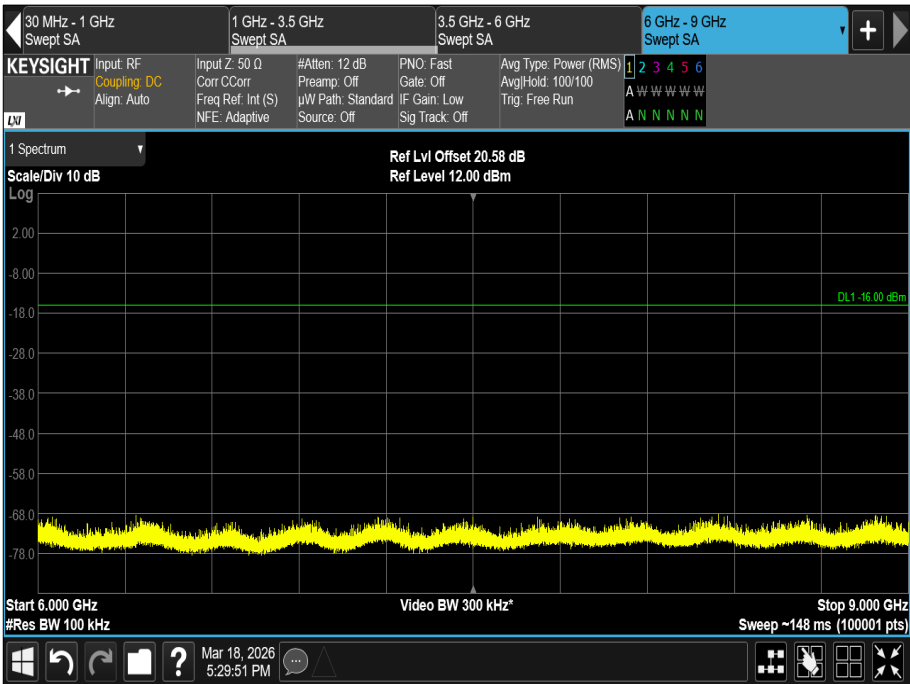


Figure 42 - 850.0 MHz, 64-QAM, 6 GHz to 9 GHz, Sector 1 (Port H)

FCC 47 CFR Part 22, Limit Clause 22.861

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.



2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Multimeter	Iso-tech	IDM101	2421	12	11-Nov-2026
Hygrometer	Rotronic	I-1000	2891	12	23-Dec-2026
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	19-Aug-2026
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/B	6023	12	06-Jun-2026
20dB 10W/18GHz F/M SMA bidirectional Attenuator	Weinschel	WA41-20-0102	7027	12	06-Jun-2026

Table 29

O/P Mon – Output Monitored using calibrated equipment



2.6 Radiated Spurious Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 22G, Clause 22.861

2.6.2 Equipment Under Test and Modification State

4G/5G GBSS Call Box, S/N: F76AA38054B7 - Modification State 1

2.6.3 Date of Test

18-March-2026 to 19-March-2026

2.6.4 Test Method

This test was performed in accordance with ANSI C63.26, clause 5.5.

A 50 ohm load was connected to each of the EUT's antenna ports.

EUT was powered by an AC PSU at the stated voltages.

2.6.5 Environmental Conditions

Ambient Temperature: 20.8 - 21.9 °C
Relative Humidity: 40.8 - 41.7 %



2.6.6 Test Results

Transmit

Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 30 - Mid Channel_16QAM, 850 MHz, 30 MHz to 9 GHz

*No emissions found within 10 dB of the limit.

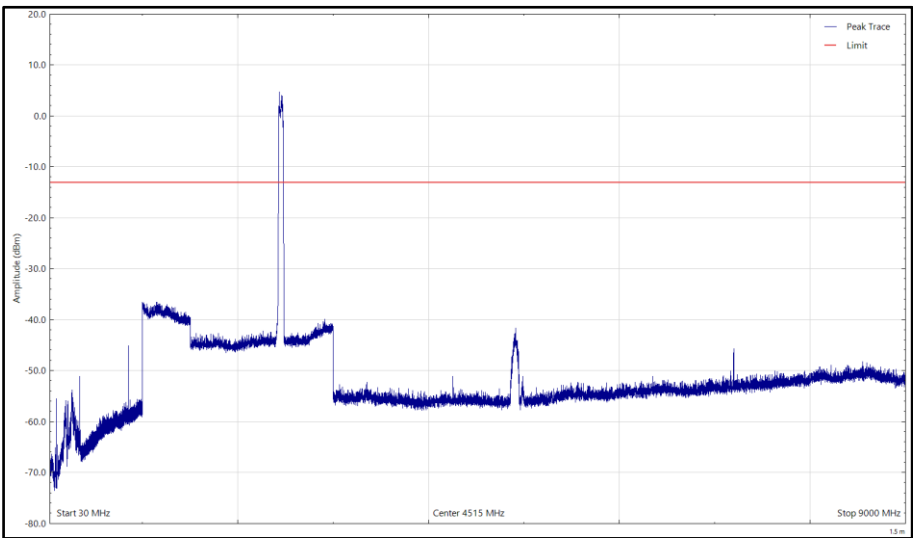


Figure 43 - Mid Channel_16-QAM, 850 MHz, 30 MHz to 9 GHz, Horizontal (Peak)

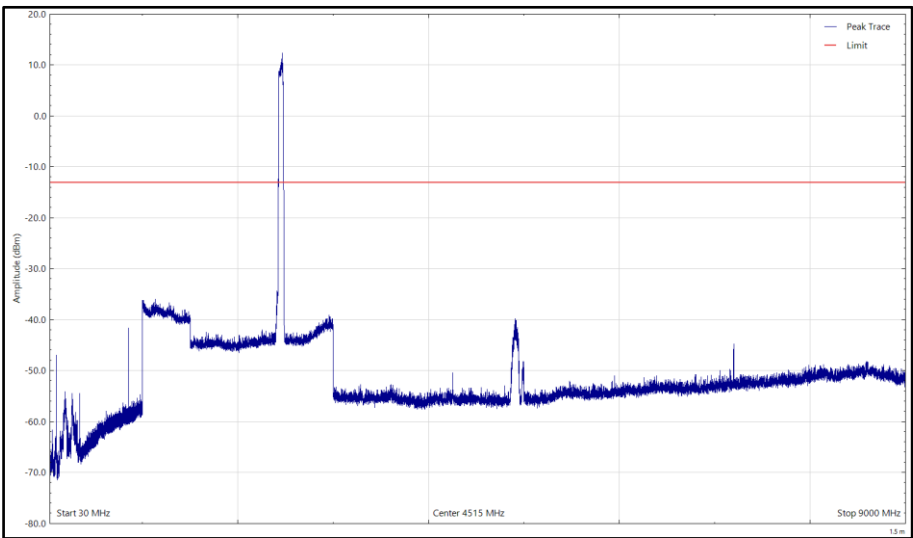


Figure 44 - Mid Channel_16-QAM, 850 MHz, 30 MHz to 9 GHz, Vertical (Peak)

FCC 47 CFR Part 22, Limit Clause 22.861

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

2.6.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
3m Semi-Anechoic Chamber	Rainford	RF Chamber 5	1545	36	23-Apr-2027
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Mast Controller	Maturo GmbH	NCD	4810	-	TU
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Antenna (DRG, 1 GHz to 10.5 GHz)	Schwarzbeck	BBHA9120B	4848	12	05-Jul-2026
High Pass filter	Wainwright	WHKX12-1290-1500-18000-80SS	4962	12	14-Jun-2026
Test Receiver	Rohde & Schwarz	ESW44	5084	12	08-Jan-2027
Emissions Software	TUV SUD	EmX V3.6.1	5125	-	Software
Pre-Amplifier (1 GHz to 26.5 GHz)	Agilent Technologies	8449B	5445	12	10-Jul-2026
Thermo-Hygro-Barometer	PCE Instruments	PCE-THB-40	5481	12	14-May-2026
Cable (K-Type to K-Type, 1 m)	Junkosha	MWX241-01000KMSKMS/A	5511	12	06-Jun-2026
Cable (SMA to SMA, 2 m)	Junkosha	MWX221-02000AMSAMS/A	5517	12	06-Jun-2026
3 GHz High pass Filter	Wainwright	WHKX12-2580-3000-18000-80SS	5547	12	30-May-2026
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	6635	24	25-Jul-2027
Cable Assy 8m (N to N) 18GHz	Junkosha	MWX221-08000NMSNMS/B	7050	12	03-Oct-2026

Table 31

TU - Traceability Unscheduled

3 Photographs

3.1 Test Setup Photographs

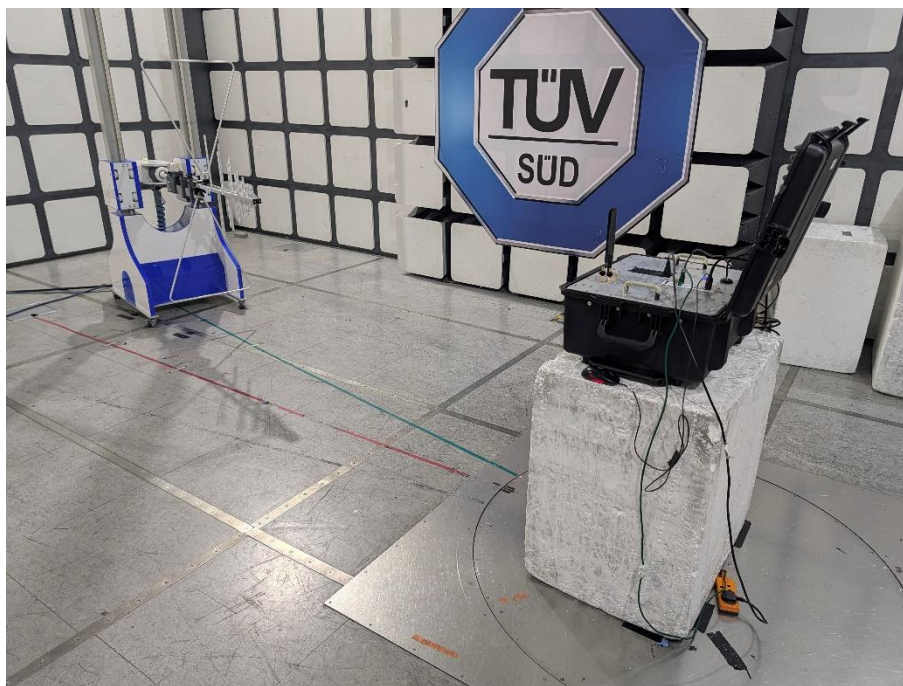


Figure 45 – 30 MHz to 1GHz Setup

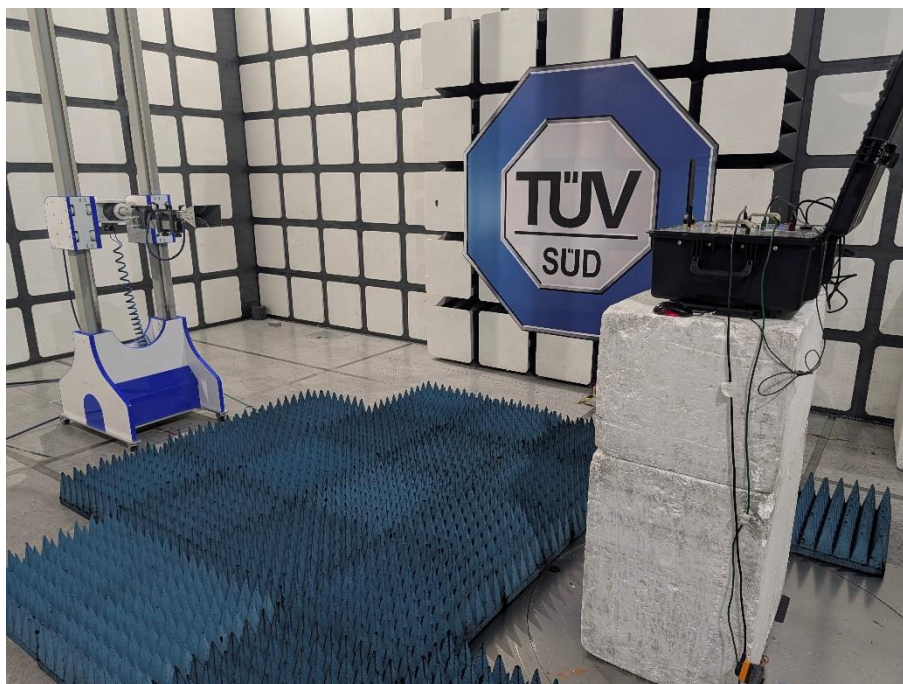


Figure 46 – 1 GHz to 9 GHz Setup

4 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Modulation Characteristics	-
Frequency Stability	± 8.98 kHz
Effective Radiated Power	± 1.05 dB
Occupied Bandwidth	± 26.19 kHz
Spurious Emission at Antenna Terminals	± 2.30 dB
Radiated Spurious Emissions	30 MHz to 1 GHz: ± 5.2 dB 1 GHz to 40 GHz: ± 6.3 dB

Table 32

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2023, Clause 4.3.4 (Simple Acceptance). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.