




# TR3818-2.4G-RU

<b>Equipment Under Test:</b>	SONA TI351
<b>Requirement(s):</b>	eCFR 47 Part 15.247   RSS-247
<b>Test Date(s):</b>	11/11/2025 - 11/17/2025
<b>Prepared for:</b>	Ezurio Attn: Brian Petted W66 N220 Commerce Ct. Cedarburg, WI 53012

<b>Report Issued by:</b> Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 12/10/2025
<b>Report Reviewed by:</b> Adam Alger, Sr. Manager EMC Laboratory	
Signature: 	Date: 12/10/2025
<b>Report Constructed by:</b> Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 12/10/2025

*This test report may not be reproduced, except in full, without approval of Ezurio*

Company: Ezurio	Page <b>1</b> of <b>62</b>	Name: SONA TI351
Report: TR3818-2.4G-RU		Model: SONA TI351
Job: C-3818		Serial: 00008   00009

## CONTENTS

Contents.....	2
Ezurio Test Services in Review .....	3
1    Test Report Summary .....	4
2    Client Information.....	5
2.1    Equipment Under Test (EUT) Information.....	5
2.2    Product Description.....	5
2.3    Modifications Incorporated for Compliance .....	5
2.4    Deviations and Exclusions from Test Specifications.....	5
2.5    EUT Information .....	5
2.6    Antenna Information .....	6
2.7    Test Channels.....	6
2.8    Duty Cycles .....	7
2.9    Power settings .....	8
3    References .....	9
4    Uncertainty Summary .....	10
5    Test Data .....	11
5.1    Antenna Port Conducted Emissions .....	11
5.2    Radiated Emissions .....	40
6    Revision History .....	62

## Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



### **A2LA – American Association for Laboratory Accreditation**

*Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope*

*A2LA Certificate Number: 1255.01*

*Scope of accreditation includes all test methods listed herein unless otherwise noted*



### **Federal Communications Commission (FCC) – USA**

*Accredited Test Firm Registration Number: 953492*

*Recognition of two 3 meter Semi-Anechoic Chambers*



### **Innovation, Science and Economic Development Canada**

*Accredited U.S. Identification Number: US0218*

*Recognition of two 3 meter Semi-Anechoic Chambers*

Company: Ezurio	Page <b>3</b> of <b>62</b>	Name: SONA TI351
Report: TR3818-2.4G-RU		Model: SONA TI351
Job: C-3818		Serial: 00008   00009

# 1 TEST REPORT SUMMARY

During **11/11/2025-11/17/2025** the Equipment Under Test (EUT), **SONA TI351**, as provided by Ezurio was tested to the following requirements, for the purpose of a Class 2 Permissive Change:

## FCC 15.247 | RSS-247 – DTS 2.4 GHz WLAN

Requirements	Description	Method	Compliant
15.247(d) 15.209 RSS-GEN 8.9	Radiated Emissions in Restricted Bands – Band Edge 2310-2390, 2483.5-2500 MHz	ANSI C63.10	Yes
15.247(d) 15.209 RSS-GEN 8.9	Conducted Emissions in Restricted Bands – Band Edge 2310-2390, 2483.5-2500 MHz	ANSI C63.10	Yes
15.247(a)(2) RSS-247 6.3.1(a)	6dB and 99% Occupied Bandwidth	ANSI C63.10	Yes
15.247(b)(3) RSS-247 6.3.2	RF Output Power	ANSI C63.10	Yes
15.247(e) RSS-247 6.3.1(b)	Power Spectral Density	ANSI C63.10	Yes

### Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	1.5 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level



## 2 CLIENT INFORMATION

<b>Company Name</b>	Ezurio
<b>Contact Person</b>	Brian Petted
<b>Address</b>	W66 N220 Commerce Ct. Cedarburg, WI 53012

### 2.1 Equipment Under Test (EUT) Information

*The following information has been supplied by the client*

<b>Product Name</b>	SONA TI351
<b>Model Number</b>	SONA TI351
<b>Serial Number</b>	00008   00009
<b>FCC ID</b>	SQG-SONATI351
<b>IC ID</b>	3147A-SONATI351

### 2.2 Product Description

The TI351 is based upon TI CC3351 Wi-Fi 6 chipset. Feature-set includes 802.11 a/b/g/n/ac/ax Wi-Fi 6 and Bluetooth Low Energy v5.4.

### 2.3 Modifications Incorporated for Compliance

None noted at time of test

### 2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

### 2.5 EUT Information

Power Supply – INPUT:100-240VAC 50/60 Hz 0.3A

OUTPUT: 5VDC 2A

Firmware - image-imx8mp-evk-rdvk 5.0.0.97

## Ancillary Equipment

Equipment used for EUT programming (not part of the EUT)

Development Kit, NXP 8MPLUS-BB

Power Supply: INPUT: 100-240 VAC 50/60Hz

OUTPUT: USB Type C 45W, 5V/3A; 9V/3A; 15V/3 A; 20V/2.25 A

HP Elitebook 840G1

TeraTerm Version: 5.1

## 2.6 Antenna Information

Manufacturer	Model	Part Number	Dimension	Type	Peak Gain (dBi)	
					2400-2500 MHz	4900-5925 MHz
Ezurio	FlexPIFA 6E	EFB2471A3S-10MH4L	16mm X 36mm X 2.5mm	PIFA	2.2	3.9
Ezurio	Mini NanoBlade Flex 6E	EMF2471A3S-10MH4L	36mm X 12mm X 0.3mm	PCB Dipole	2.4	4.4
Ezurio	FlexPIFA	001-0021	38.5mm X 12.7mm X 2.5mm	PIFA	2.5	3.0
Joymax Electronics	N/A	TWX-100BRS3B	137mm X 13mm	Dipole	2.0	4.0
Ezurio	FlexPIFA	EFB2455A3S-15MH4L	2.5mm X 38.6mm X 12.7mm	PIFA	2.5	3.0
Ezurio	Mini NanoBlade Flex	EMF2449A1-10MH4L	36mm x 12mm x 0.1mm	PIFA	2.8	3.4
Ezurio	NanoBlade	ENB2449A1-10MH4L	50.8mm x 16.5mm	PCB Dipole	3.2	4.1

## 2.7 Test Channels

Channel	Frequency (MHz)	Bandwidth (MHz)	Data Rates
1	2412	20	802.11ax – MCS0 and MCS7
6	2437	20	
11	2462	20	

Note: Band Edge may be tested to more channels due to power shaping

## 2.8 Duty Cycles

Mode	On-Time ( $\mu$ s)	Period ( $\mu$ s)	Duty Cycle	Minimum Avg VBW (Hz)	Duty Cycle correction
802.11ax MCS0 RU26	4411.0	4646.0	94.9%	226.7	0.2
802.11ax MCS7 RU26	501.9	738.3	68.0%	1992.4	1.7
802.11ax MCS0 RU52	2236.0	2473.0	90.4%	447.2	0.4
802.11ax MCS7 RU52	285.8	521.4	54.8%	3499.0	2.6
802.11ax MCS0 RU106	1093.0	1328.0	82.3%	914.9	0.8
802.11ax MCS7 RU106	169.7	405.2	41.9%	5892.8	3.8
802.11ax MCS0 RU242	510.6	745.2	68.5%	1958.5	1.6
802.11ax MCS7 RU242	112.8	347.6	32.5%	8865.2	4.9

## 2.9 Power settings

Channel	Mode	Power Setting
1	RU26	19
2	RU26	19
3	RU26	19
4	RU26	19
5	RU26	19
6	RU26	19
7	RU26	19
8	RU26	19
9	RU26	19
10	RU26	19
11	RU26	19
1	RU52	15
2	RU52	15
3	RU52	16
4	RU52	17
5	RU52	19
6	RU52	19
7	RU52	17
8	RU52	15
9	RU52	15
10	RU52	14
11	RU52	14
1	RU106	18
2	RU106	18
3	RU106	18
4	RU106	18
5	RU106	18
6	RU106	18
7	RU106	18
8	RU106	18
9	RU106	18
10	RU106	18
11	RU106	18
1	RU242	14
2	RU242	16
3	RU242	20
4	RU242	20
5	RU242	20
6	RU242	20
7	RU242	20
8	RU242	20
9	RU242	20
10	RU242	20
11	RU242	20

Note: Power setting offset by 10 from previous filing report. Maximum setting was 30 and is now 20.

### 3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
FCC eCFR 47 Part 15	-	2025	-	-
ANSI C63.10	-	2020	-	-
RSS-247	4	2025	-	-
RSS-GEN	5	2018	2019	2021

## 4 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of  $k = 2$ .

### References

CISPR 16-4-1

CISPR 16-4-2

CISPR 32

ANSI C63.23

A2LA P103

A2LA P103c

ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

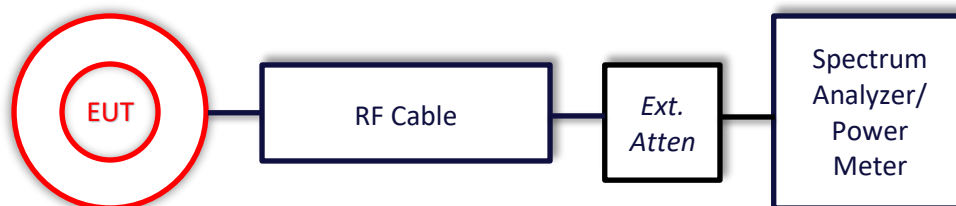
Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	$1 \times 10^{-7}$	$0.55 \times 10^{-7}$
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

## 5 TEST DATA

### 5.1 Antenna Port Conducted Emissions

<b>Description of Measurement</b>	<p>The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter.</p> <p>The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.</p>
<b>Example Calculations</b>	<p>Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm)</p> <p>Margin (dB) = Limit (dBm) – Corrected Reading (dBm)</p>

#### Block Diagram



### 5.1.1 6dB and 99% Occupied Bandwidth

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Anthony Smith
<b>Temperature</b>	20.7°C	<b>R.H. %</b>	34.10%
<b>Test Date</b>	11/11/2025	<b>Location</b>	RF Bench
<b>Requirement</b>	15.247 (a)(2) RSS-247 6.3.1(a)	<b>Method</b>	ANSI C63.10 11.8, 6.9

**Limits:** The minimum 6 dB bandwidth shall be at least 500 kHz

### Test Parameters

<b>Frequency</b>	2400-2483.5 MHz	<b>Setup</b>	Antenna Port
<b>RBW</b>	470 kHz	<b>VBW</b>	5 MHz
<b>Detector(s)</b>	Peak	<b>Settings</b>	Max Hold

### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	1/28/2025	1/28/2026	Active Verification

### EUT Parameters

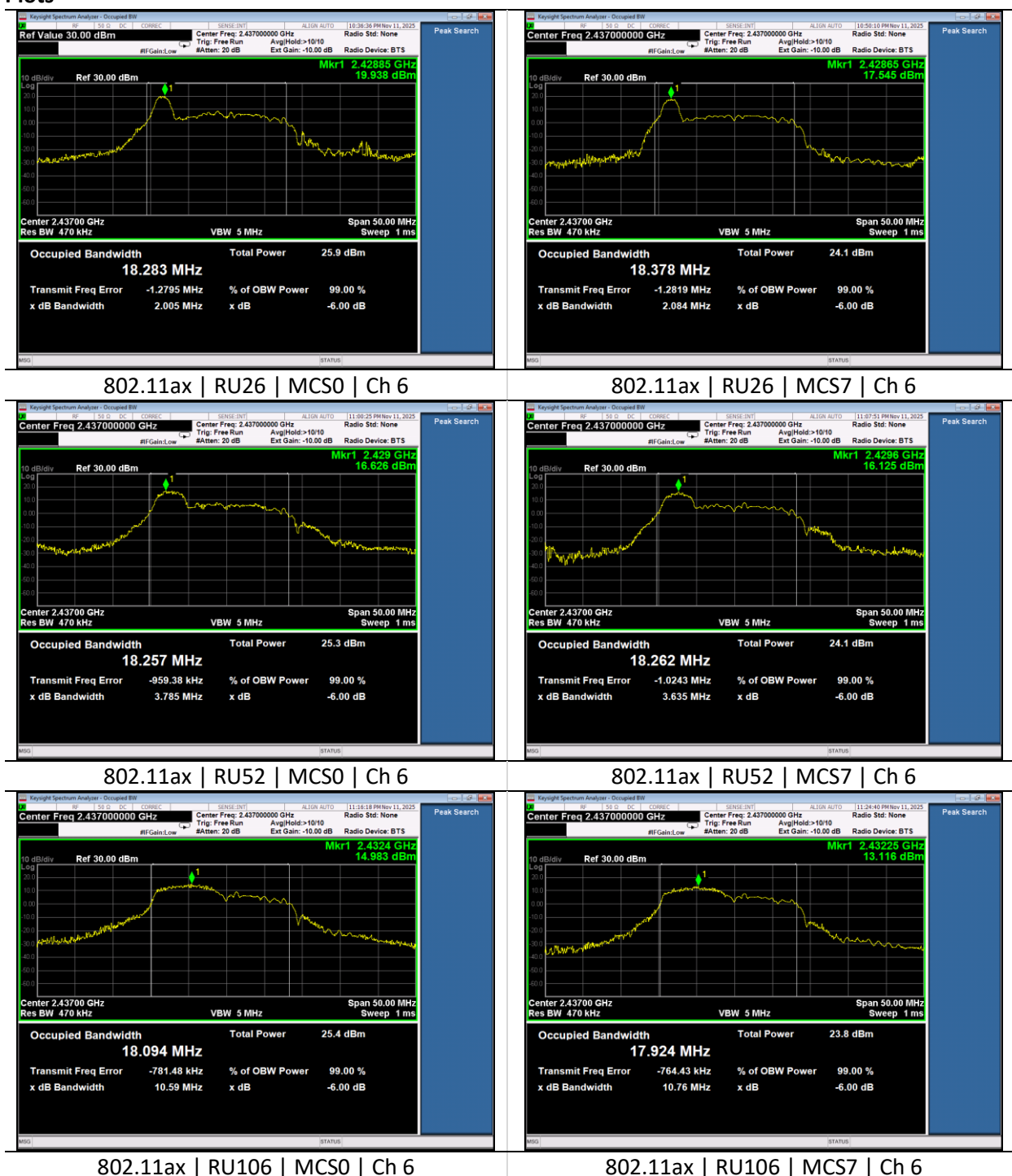
<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7

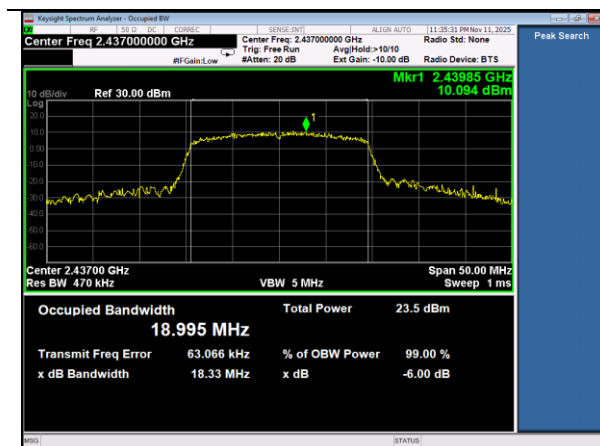


## Data Table

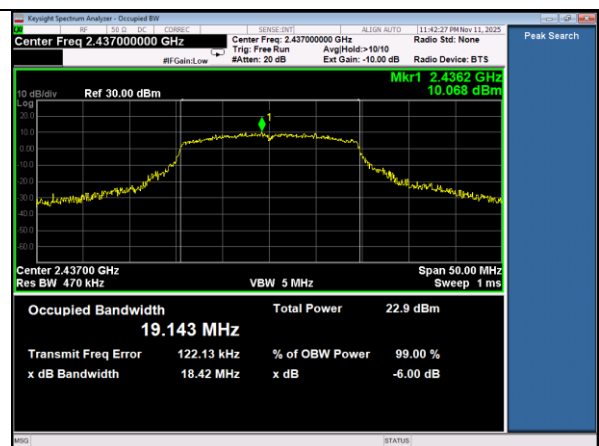
Mode	Rate	Channel	99% BW (MHz)	6 dB BW (MHz)	Limit (MHz)	Margin (MHz)
802.11ax RU26	MCS0	1	17.73	2.09	0.50	1.59
		6	18.28	2.01	0.50	1.51
		11	17.62	1.94	0.50	1.44
	MCS7	1	17.71	1.93	0.50	1.43
		6	18.38	2.08	0.50	1.58
		11	18.07	2.01	0.50	1.51
802.11ax RU52	MCS0	1	17.47	3.78	0.50	3.28
		6	18.26	3.79	0.50	3.29
		11	17.80	3.75	0.50	3.25
	MCS7	1	17.60	3.77	0.50	3.27
		6	18.26	3.64	0.50	3.14
		11	17.82	3.66	0.50	3.16
802.11ax RU106	MCS0	1	17.57	10.69	0.50	10.19
		6	18.09	10.59	0.50	10.09
		11	17.71	10.75	0.50	10.25
	MCS7	1	17.65	10.95	0.50	10.45
		6	17.92	10.76	0.50	10.26
		11	17.79	10.50	0.50	10.00
802.11ax RU242	MCS0	1	18.86	18.49	0.50	17.99
		6	19.00	18.33	0.50	17.83
		11	18.85	18.10	0.50	17.60
	MCS7	1	18.81	17.75	0.50	17.25
		6	19.14	18.42	0.50	17.92
		11	18.86	18.09	0.50	17.59

# Plots





802.11ax | RU242 | MCS0 | Ch 6



802.11ax | RU242 | MCS7 | Ch 6

### 5.1.2 RF Output Power

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Anthony Smith
<b>Temperature</b>	21.1°C, 21.1°C	<b>R.H. %</b>	36.1%, 28.6%
<b>Test Date</b>	11/12/2025, 11/17/2025	<b>Location</b>	RF Conducted Bench
<b>Requirement</b>	15.247 (b)(3) RSS-247 6.3.2	<b>Method</b>	ANSI C63.10 11.9.2.2.4 AVGSA-2

**Limit:** The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

#### Test Parameters

<b>Frequency</b>	2400-2483.5 MHz	<b>Setup</b>	Antenna Port
<b>RBW</b>	390 kHz	<b>VBW</b>	1.2 MHz
<b>Detector(s)</b>	RMS	<b>Settings</b>	Trace Average Span: 40 MHz
<b>Example Calculations</b>	Average Output Power = Measured Power + 10*log(1/D) where D is the duty cycle.		

#### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	1/28/2025	1/28/2026	Active Verification

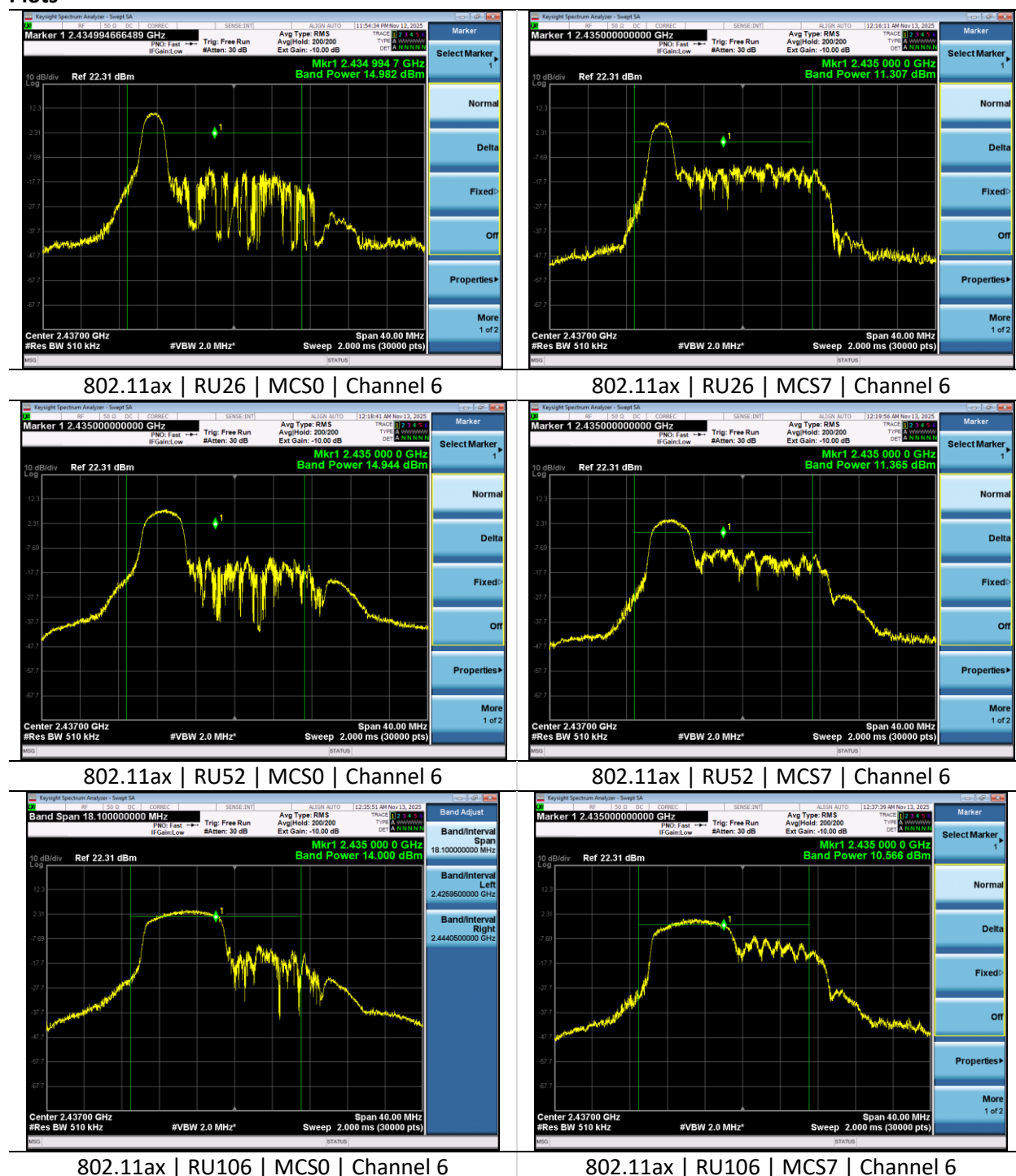
#### EUT Parameters

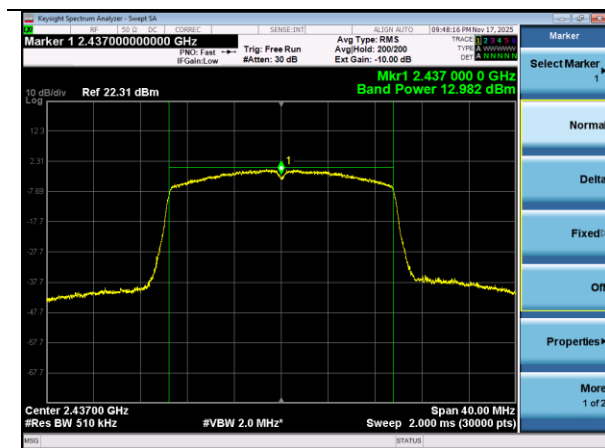
<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7

**Data Table**

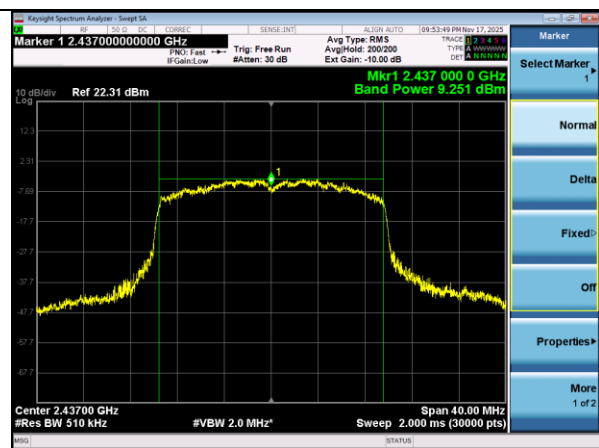
Mode	Rate and RU	Channel	Average Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
802.11ax	MCS0 RU26	1	11.9	0.2	12.1	30	17.9	19
		6	15.0	0.2	15.2	30	14.8	19
		11	10.3	0.2	10.5	30	19.5	19
	MCS7 RU26	1	10.1	1.7	11.8	30	18.2	19
		6	11.3	1.7	13.0	30	17.0	19
		11	9.3	1.7	11.0	30	19.0	19
	MCS0 RU52	1	10.5	0.4	10.9	30	19.1	15
		6	14.9	0.4	15.3	30	14.7	19
		11	9.8	0.4	10.2	30	19.8	14
	MCS7 RU52	1	8.7	2.6	11.3	30	18.7	15
		6	11.4	2.6	14.0	30	16.0	21
		11	8.1	2.6	10.7	30	19.3	14
	MCS0 RU106	1	11.4	0.8	12.2	30	17.8	18
		6	14.0	0.8	14.8	30	15.2	18
		11	10.0	0.8	10.8	30	19.2	18
	MCS7 RU106	1	8.8	3.8	12.6	30	17.4	18
		6	10.6	3.8	14.4	30	15.6	18
		11	7.6	3.8	11.4	30	18.6	18
	MCS0 RU242	1	8.6	1.6	10.2	30	19.8	14
		6	13.0	1.6	14.6	30	15.4	20
		11	9.5	1.6	11.1	30	18.9	20
	MCS7 RU242	1	5.7	4.9	10.6	30	19.4	14
		6	9.3	4.9	14.2	30	15.8	20
		11	6.6	4.9	11.5	30	18.5	20

# Plots





802.11ax | RU242 | MCS0 | Channel 6



802.11ax | RU242 | MCS7 | Channel 6

Company: Ezurio	Page 19 of 62	Name: SONA TI351
Report: TR3818-2.4G-RU		Model: SONA TI351
Job: C-3818		Serial: 00008   00009

### 5.1.3 Power Spectral Density

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Anthony Smith
<b>Temperature</b>	21.1°C, 21.1°C	<b>R.H. %</b>	36.1%, 28.6%
<b>Test Date</b>	11/12/2025, 11/17/2025	<b>Location</b>	RF Conducted Bench
<b>Requirement</b>	15.247 (e) RSS-247 6.3.1 (b)	<b>Method</b>	ANSI C63.10 11.10.5 AVGPSD-2

**Limits:** Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### Test Parameters

<b>Frequency</b>	2400-2483.5 MHz	<b>Setup</b>	Antenna Port
<b>RBW</b>	100 kHz	<b>VBW</b>	300 kHz
<b>Detector(s)</b>	RMS	<b>Settings</b>	Trace Average Span: 40 MHz
<b>Example Calculations</b>	Average PSD = Measured PSD + 10*log(1/D) where D is the duty cycle.		

#### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	1/28/2025	1/28/2026	Active Verification

#### EUT Parameters

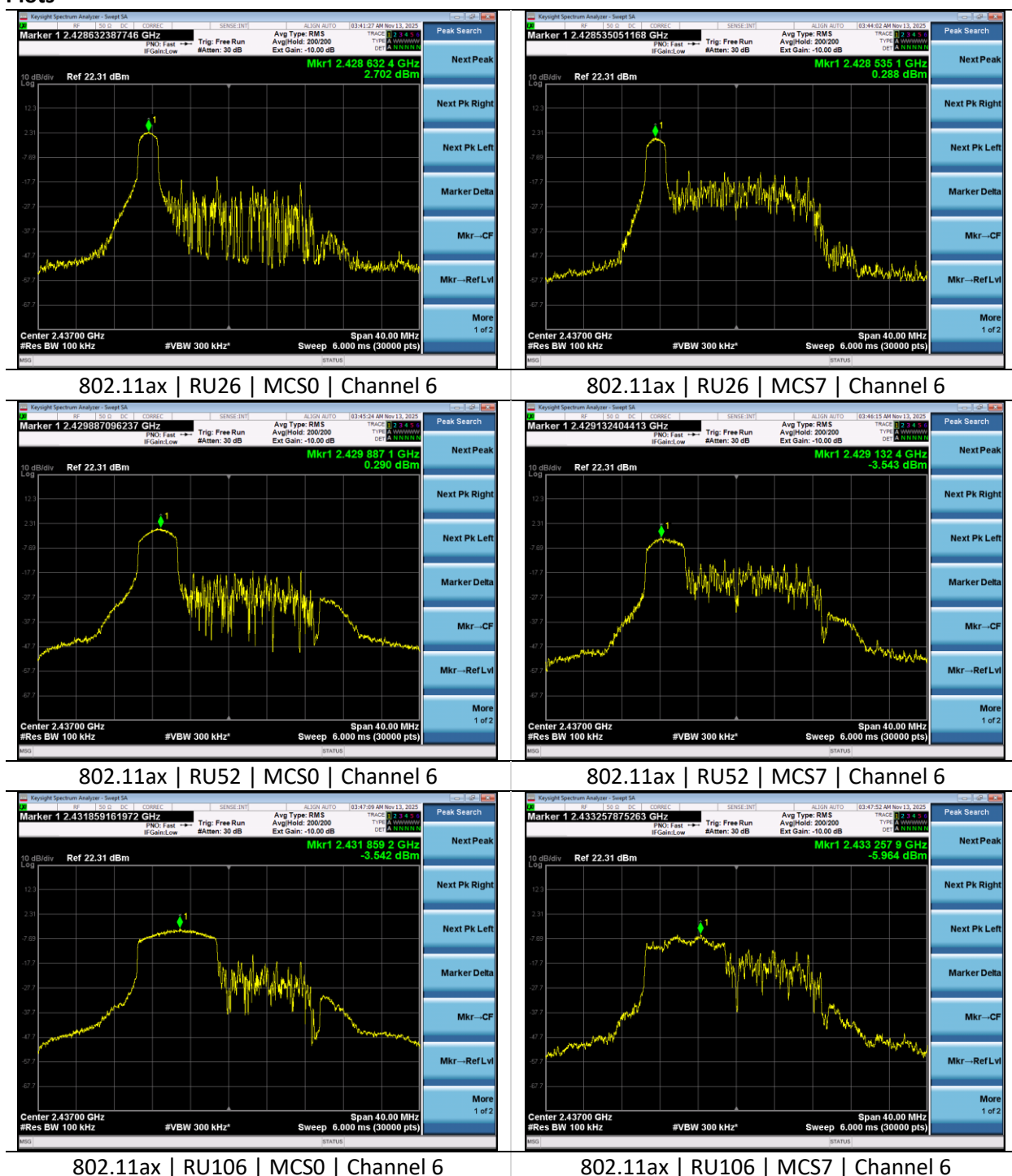
<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7

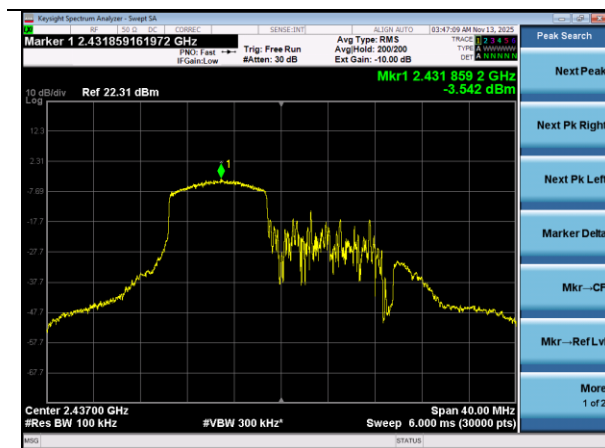


**Data Table**

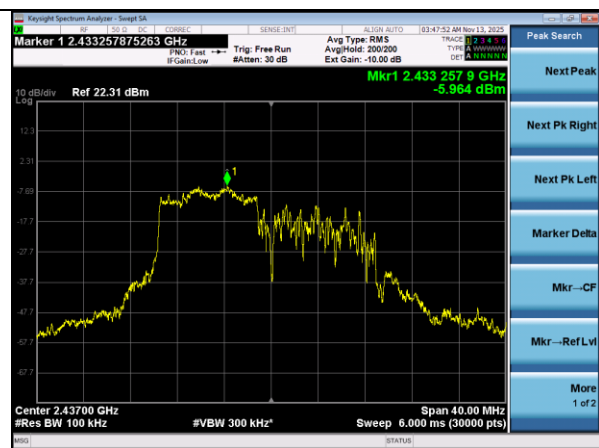
Mode	Rate and RU	Channel	Average PSD (dBm/100kHz)	Duty Cycle Correction (dB)	Corrected PSD (dBm)	Limit (dBm/3kHz)	Margin (dB)	Power Setting
802.11ax	MCS0 RU26	1	0.2	0.2	0.4	8	7.6	19
		6	2.7	0.2	2.9	8	5.1	19
		11	-1.4	0.2	-1.2	8	9.2	19
	MCS7 RU26	1	-0.7	1.7	1.0	8	7.0	19
		6	0.3	1.7	2.0	8	6.0	19
		11	-3.0	1.7	-1.3	8	9.3	19
	MCS0 RU52	1	-3.6	0.4	-3.2	8	11.2	15
		6	0.3	0.4	0.7	8	7.3	19
		11	-4.9	0.4	-4.5	8	12.5	14
	MCS7 RU52	1	-5.4	2.6	-2.8	8	10.8	15
		6	-3.5	2.6	-0.9	8	8.9	21
		11	-6.6	2.6	-4.0	8	12.0	14
	MCS0 RU106	1	-5.9	0.8	-5.1	8	13.1	18
		6	-3.5	0.8	-2.7	8	10.7	18
		11	-7.0	0.8	-6.2	8	14.2	18
	MCS7 RU106	1	-7.7	3.8	-3.9	8	11.9	18
		6	-6.0	3.8	-2.2	8	10.2	18
		11	-8.8	3.8	-5.0	8	13.0	18
	MCS0 RU242	1	-11.1	1.6	-9.5	8	17.5	14
		6	-6.7	1.6	-5.1	8	13.1	20
		11	-10.2	1.6	-8.6	8	16.6	20
	MCS7 RU242	1	-11.4	4.9	-6.5	8	14.5	14
		6	-8.5	4.9	-3.6	8	11.6	20
		11	-10.8	4.9	-5.9	8	13.9	20

# Plots





802.11ax | RU242 | MCS0 | Channel 6



802.11ax | RU242 | MCS7 | Channel 6

#### 5.1.4 Emissions in Restricted Bands – Band Edge

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Anthony Smith
<b>Temperature</b>	20.7°C	<b>R.H. %</b>	34.10%
<b>Test Date</b>	11/11/2025	<b>Location</b>	RF Bench
<b>Requirement</b>	15.247(d) RSS-GEN 8.9	<b>Method</b>	ANSI C63.10 11.12

#### 15.209 Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

#### Test Parameters

<b>Frequency</b>	2310-2500 MHz	<b>Setup</b>	Antenna Port
<b>RBW</b>	1 MHz	<b>VBW</b>	Peak – 3 MHz Average – see 2.8
<b>Detector(s)</b>	Peak	<b>Settings</b>	Max Hold
<b>Notes</b>	Maximum antenna gain 3.2 dBi		
<b>Example Calculations</b>	Correction Factor = $20 \log (1/D)$ , where D is the duty cycle EIRP = Measurement + Antenna Gain + Correction Factor E-Field = EIRP – $20 \log 3 + 104.8$		

#### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration
AA 960173	Cable	A.H. Systems, Inc.	SAC-26G-1	388	1/28/2025	1/28/2026	Active Verification

## EUT Parameters

<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7
<b>Note</b>	Lower Band Edge tested with lowest RU allocation; Upper Band Edge tested on highest RU allocation		

## Measurements – Lower Band Edge

Mode	Rate	Channel	Measurement Type	Frequency (MHz)	Measurement (dBm)	EIRP (dBm)	E-Field (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	1	Peak	2385.4	-26.3	-23.1	72.2	74.0	1.8	21*
		1	Average	2386.6	-56.7	-53.5	41.8	54.0	12.2	21*
	MCS7	1	Peak	2389.4	-28.7	-25.5	69.8	74.0	4.2	21*
		1	Average	2386.6	-54.7	-51.5	43.8	54.0	10.2	21*
802.11ax RU52	MCS0	1	Peak	2385.7	-28.0	-24.8	70.5	74.0	3.5	21*
		1	Average	2389.8	-53.4	-50.2	45.1	54.0	8.9	21*
	MCS7	1	Peak	2389.8	-36.5	-33.3	62.0	74.0	12.0	15
		1	Average	2389.8	-53.0	-49.8	45.5	54.0	8.5	15
802.11ax RU106	MCS0	1	Peak	2387.4	-27.4	-24.2	71.1	74.0	2.9	21*
		1	Average	2390.0	-52.4	-49.2	46.1	54.0	7.9	21*
	MCS7	1	Peak	2388.5	-27.8	-24.6	70.7	74.0	3.3	21*
		1	Average	2389.8	-49.8	-46.6	48.7	54.0	5.3	21*
802.11ax RU242	MCS0	1	Peak	2388.1	-30.1	-26.9	68.4	74.0	5.6	15*
		1	Average	2389.9	-46.6	-43.4	51.9	54.0	2.1	15*
	MCS7	1	Peak	2389.7	-34.8	-31.6	63.7	74.0	10.3	14
		1	Average	2389.7	-46.7	-43.5	51.8	54.0	2.2	14
802.11ax RU52	MCS0	2	Peak	2381.2	-33.9	-30.7	64.6	74.0	9.4	15
		2	Average	2390.0	-56.5	-53.3	42.0	54.0	12.0	15
	MCS7	2	Peak	2389.5	-38.8	-35.6	59.7	74.0	14.3	15
		2	Average	2389.9	-55.3	-52.1	43.2	54.0	10.8	15
802.11ax RU242	MCS0	2	Peak	2388.2	-32.1	-28.9	66.4	74.0	7.6	21*
		2	Average	2389.9	-47.6	-44.4	50.9	54.0	3.1	21*
	MCS7	2	Peak	2390.0	-31.2	-28.0	67.3	74.0	6.7	16
		2	Average	2390.0	-46.6	-43.4	51.9	54.0	2.1	16
802.11ax RU52	MCS0	3	Peak	2383.6	-28.4	-25.2	70.1	74.0	3.9	16
		3	Average	2382.2	-56.6	-53.4	41.9	54.0	12.1	16
	MCS7	3	Peak	2384.7	-26.4	-23.2	72.1	74.0	1.9	16
		3	Average	2382.0	-55.2	-52.0	43.3	54.0	10.7	16
802.11ax RU242	MCS0	3	Peak	2388.4	-30.4	-27.2	68.1	74.0	5.9	21*
		3	Average	2389.4	-46.9	-43.7	51.6	54.0	2.4	21*
	MCS7	3	Peak	2389.9	-29.9	-26.7	68.6	74.0	5.4	20
		3	Average	2389.8	-46.3	-43.1	52.2	54.0	1.8	20
802.11ax RU52	MCS0	4	Peak	2389.1	-27.5	-24.3	71.0	74.0	3.0	17
		4	Average	2386.9	-55.4	-52.2	43.1	54.0	10.9	17
	MCS7	4	Peak	2389.0	-27.1	-23.9	71.4	74.0	2.6	17
		4	Average	2387.0	-53.6	-50.4	44.9	54.0	9.1	17
802.11ax RU242	MCS0	4	Peak	2389.7	-32.9	-29.7	65.6	74.0	8.4	21*
		4	Average	2389.7	-50.4	-47.2	48.1	54.0	5.9	21*
	MCS7	4	Peak	2385.8	-31.6	-28.4	66.9	74.0	7.1	21*
		4	Average	2389.4	-48.9	-45.7	49.6	54.0	4.4	21*
802.11ax RU52	MCS0	5	Peak	2389.6	-26.3	-23.1	72.2	74.0	1.8	21*
		5	Average	2389.9	-52.1	-48.9	46.4	54.0	7.6	21*
	MCS7	5	Peak	2389.5	-30.4	-27.2	68.1	74.0	5.9	21*
		5	Average	2389.4	-54.9	-51.7	43.6	54.0	10.4	21*

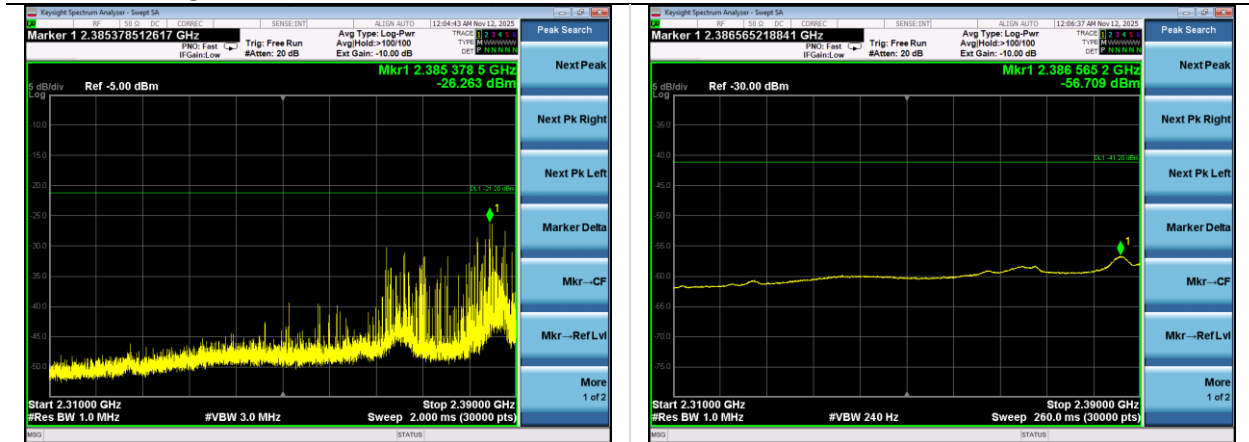
\*Tested at a higher power setting than specified in section 2.9

## Measurements – Upper Band Edge

Mode	Rate	Channel	Measurement Type	Frequency (MHz)	Measurement (dBm)	EIRP (dBm)	E-Field (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	11	Peak	2486.9	-30.9	-27.7	67.6	74.0	6.4	21*
		11	Average	2483.7	-57.0	-53.8	41.5	54.0	12.5	21*
	MCS7	11	Peak	2490.2	-36.6	-33.4	61.9	74.0	12.1	21*
		11	Average	2483.6	-55.1	-51.9	43.4	54.0	10.6	21*
802.11ax RU52	MCS0	11	Peak	2488.9	-36.0	-32.8	62.5	74.0	11.5	14
		11	Average	2483.5	-54.1	-50.9	44.4	54.0	9.6	14
	MCS7	11	Peak	2483.6	-39.2	-36.0	59.3	74.0	14.7	14
		11	Average	2483.5	-52.7	-49.5	45.8	54.0	8.2	14
802.11ax RU106	MCS0	11	Peak	2485.9	-28.2	-25.0	70.3	74.0	3.7	21*
		11	Average	2483.7	-52.4	-49.2	46.1	54.0	7.9	21*
	MCS7	11	Peak	2483.8	-36.2	-33.0	62.3	74.0	11.7	21*
		11	Average	2483.6	-50.6	-47.4	47.9	54.0	6.1	21*
802.11ax RU242	MCS0	11	Peak	2484.5	-32.3	-29.1	66.2	74.0	7.8	21*
		11	Average	2483.6	-51.1	-47.9	47.4	54.0	6.6	21*
	MCS7	11	Peak	2483.7	-28.4	-25.2	70.1	74.0	3.9	21*
		11	Average	2483.6	-47.6	-44.4	50.9	54.0	3.1	21*
802.11ax RU52	MCS0	10	Peak	2484.4	-35.3	-32.1	63.2	74.0	10.8	14
		10	Average	2483.5	-56.9	-53.7	41.6	54.0	12.4	14
	MCS7	10	Peak	2497.9	-39.1	-35.9	59.4	74.0	14.6	14
		10	Average	2483.8	-55.3	-52.1	43.2	54.0	10.8	14
802.11ax RU52	MCS0	9	Peak	2489.9	-28.2	-25.0	70.3	74.0	3.7	15
		9	Average	2491.7	-54.0	-50.8	44.5	54.0	9.5	15
	MCS7	9	Peak	2491.7	-29.2	-26.0	69.3	74.0	4.7	15
		9	Average	2489.1	-53.3	-50.1	45.2	54.0	8.8	15
802.11ax RU52	MCS0	8	Peak	2485.2	-28.0	-24.8	70.5	74.0	3.5	15
		8	Average	2484.6	-53.9	-50.7	44.6	54.0	9.4	15
	MCS7	8	Peak	2485.5	-29.3	-26.1	69.2	74.0	4.8	15
		8	Average	2486.8	-52.3	-49.1	46.2	54.0	7.8	15
802.11ax RU52	MCS0	7	Peak	2483.7	-26.2	-23.0	72.3	74.0	1.7	17
		7	Average	2483.7	-53.5	-50.3	45.0	54.0	9.0	17
	MCS7	7	Peak	2483.9	-27.3	-24.1	71.2	74.0	2.8	17
		7	Average	2484.2	-52.6	-49.4	45.9	54.0	8.1	17
802.11ax RU52	MCS0	6	Peak	2484.5	-28.2	-25.0	70.3	74.0	3.7	21*
		6	Average	2483.5	-51.0	-47.8	47.5	54.0	6.5	21*
	MCS7	6	Peak	2486.4	-30.3	-27.1	68.2	74.0	5.8	21*
		6	Average	2488.6	-52.5	-49.3	46.0	54.0	8.0	21*

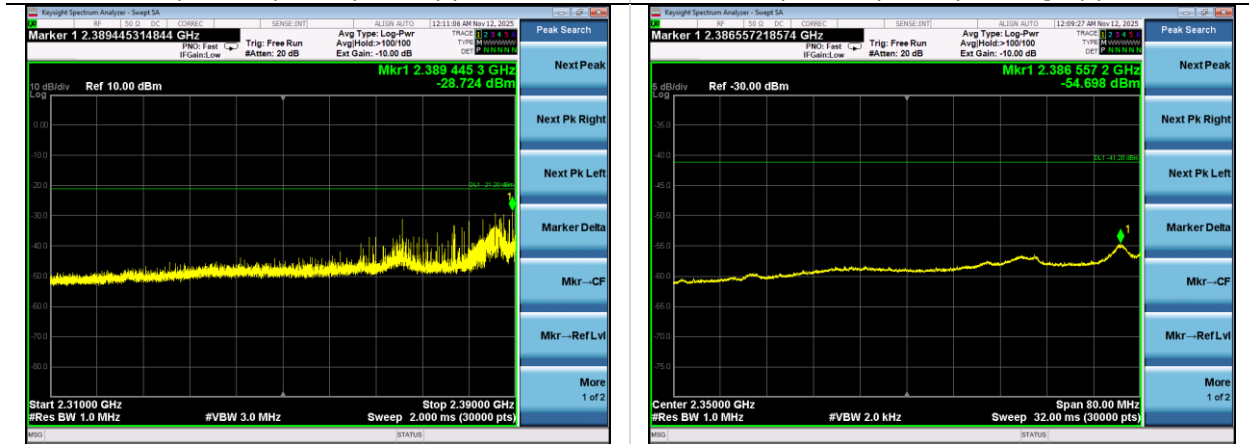
\*Tested at a higher power setting than specified in section 2.9

## Lower Band Edge Plots (2310-2390 MHz)



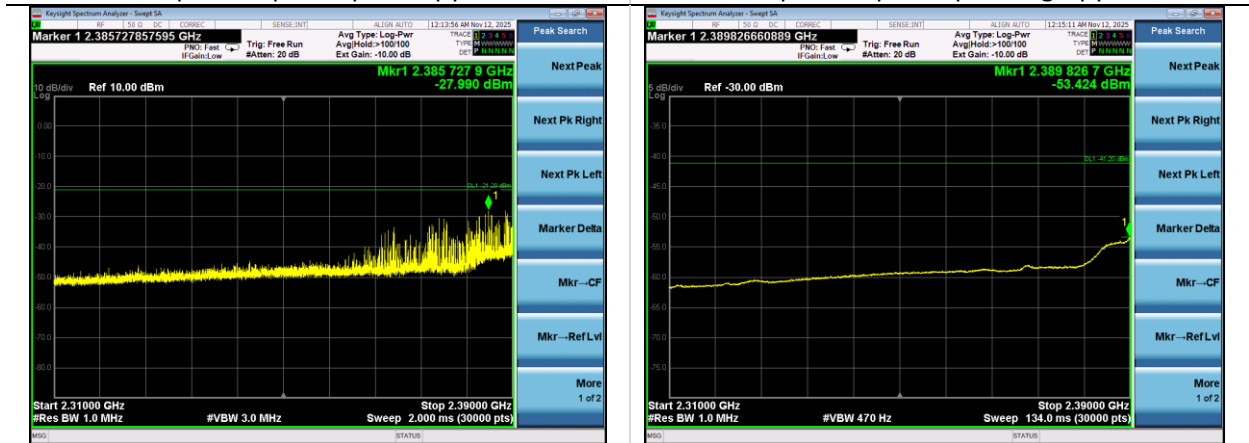
RU26 | MCS0 | Ch 1 | Peak | pwr 21

RU26 | MCS0 | Ch 1 | Average | pwr 21



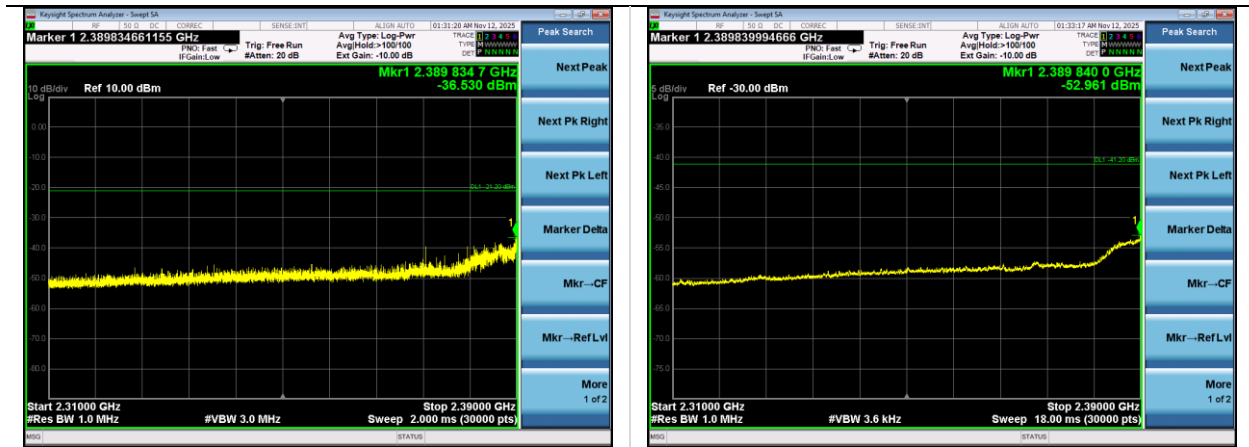
RU26 | MCS7 | Ch 1 | Peak | pwr 21

RU26 | MCS7 | Ch 1 | Average | pwr 21



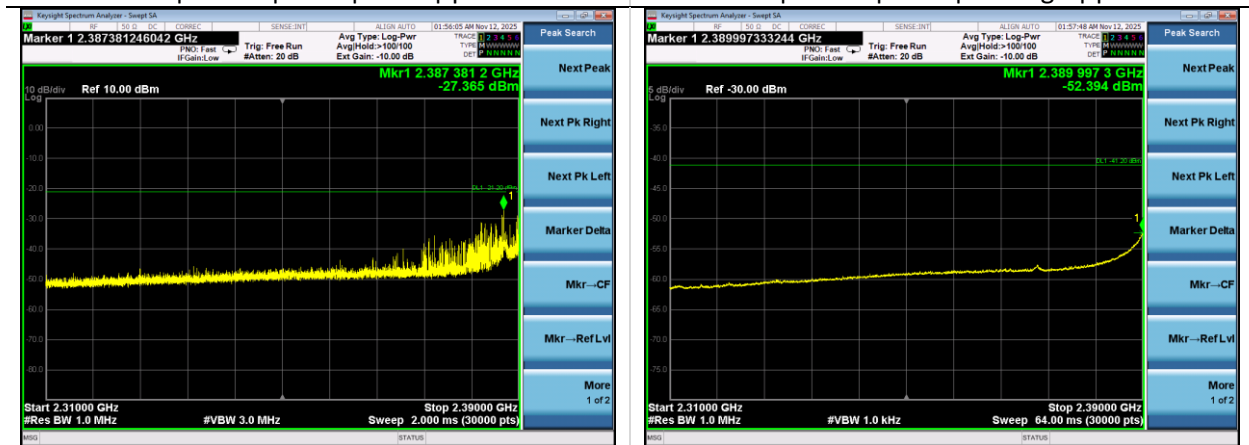
RU52 | MCS0 | Ch 1 | Peak | pwr 21

RU52 | MCS0 | Ch 1 | Average | pwr 21



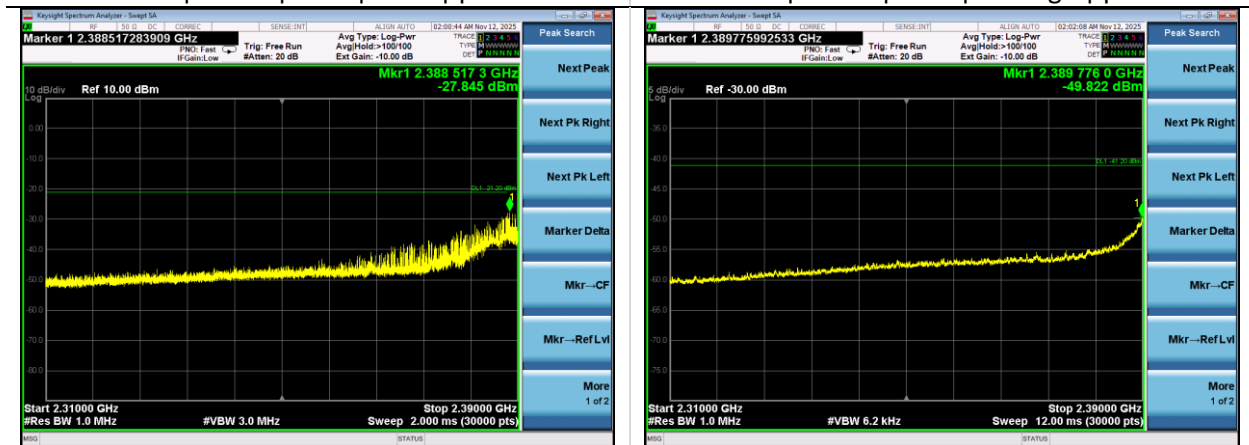
RU52 | MCS7 | Ch 1 | Peak | pwr 15

RU52 | MCS7 | Ch 1 | Average | pwr 15



RU106 | MCS0 | Ch 1 | Peak | pwr 21

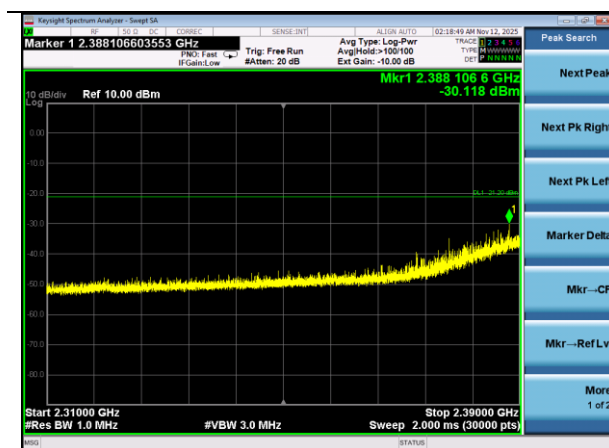
RU106 | MCS0 | Ch 1 | Average | pwr 21



RU106 | MCS7 | Ch 1 | Peak | pwr 21

RU106 | MCS7 | Ch 1 | Average | pwr 21

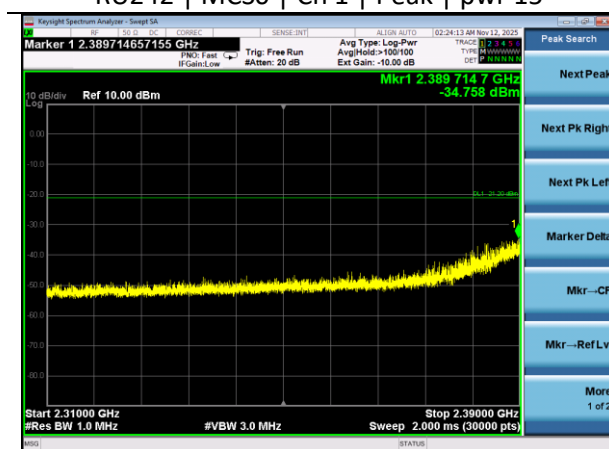




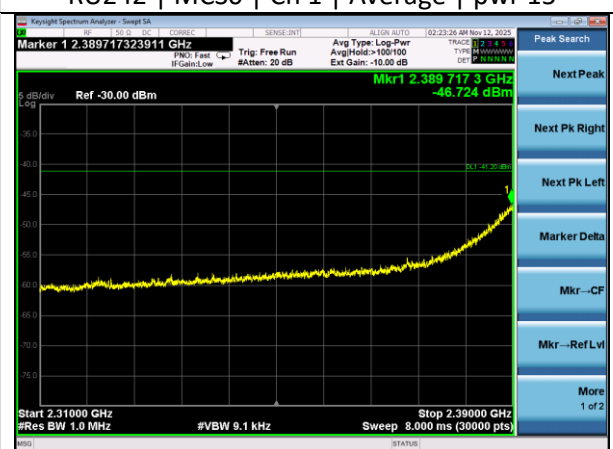
RU242 | MCS0 | Ch 1 | Peak | pwr 15



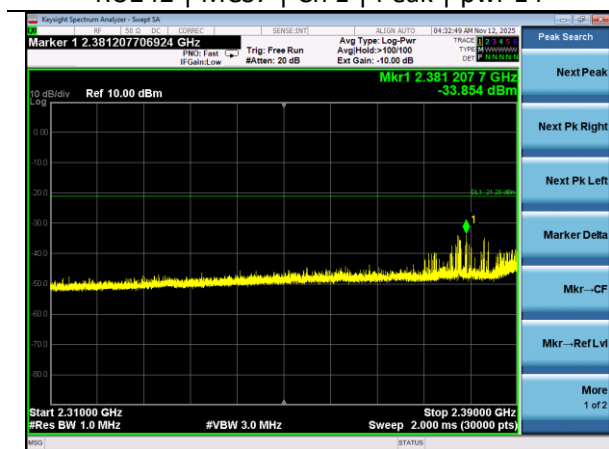
RU242 | MCS0 | Ch 1 | Average | pwr 15



RU242 | MCS7 | Ch 1 | Peak | pwr 14



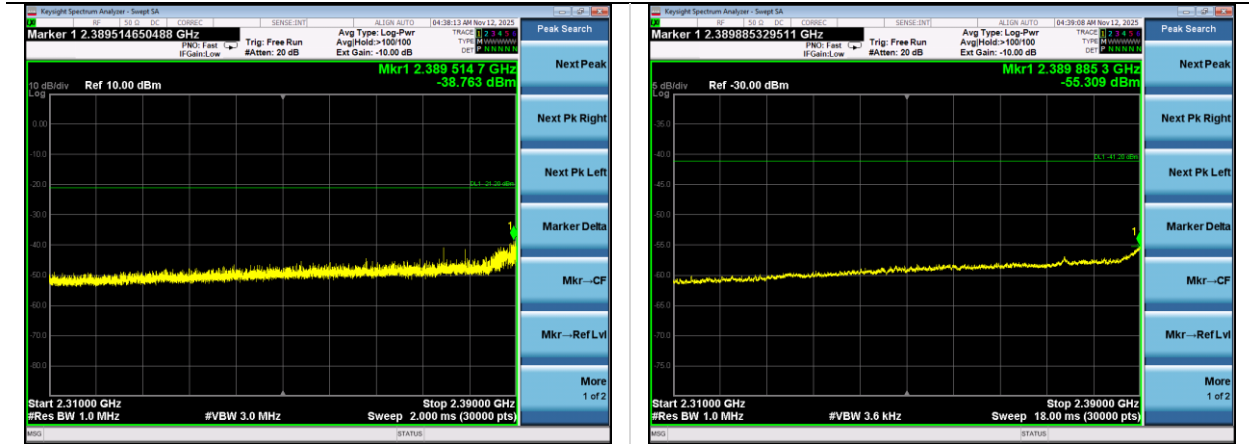
RU242 | MCS7 | Ch 1 | Average | pwr 14



RU52 | MCS0 | Ch 2 | Peak | pwr 15

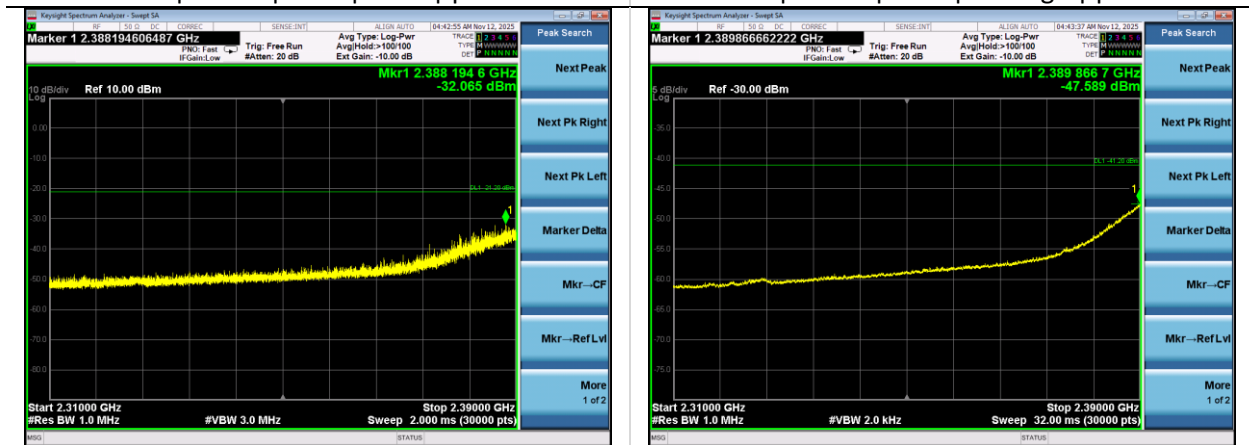


RU52 | MCS0 | Ch 2 | Average | pwr 15



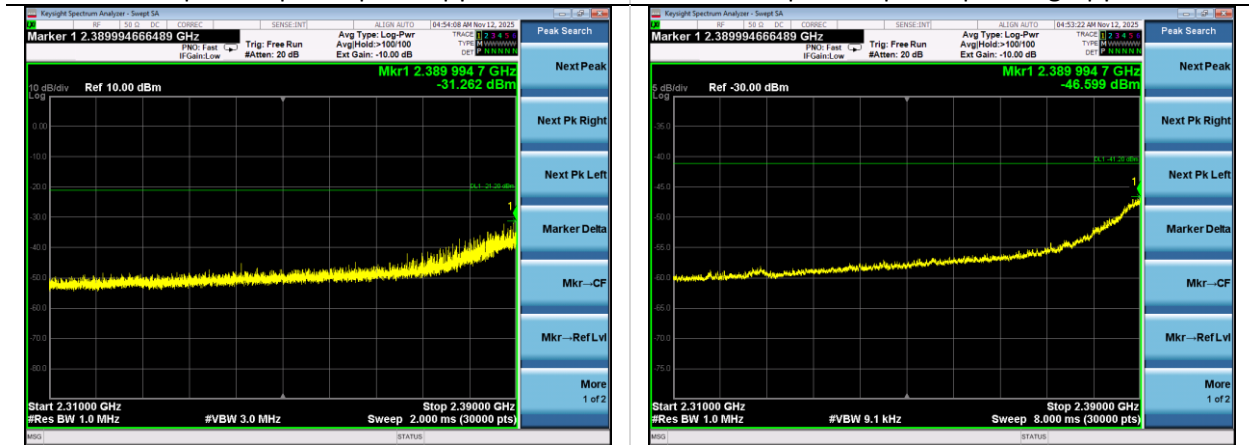
RU52 | MCS7 | Ch 2 | Peak | pwr 15

RU52 | MCS7 | Ch 2 | Average | pwr 15



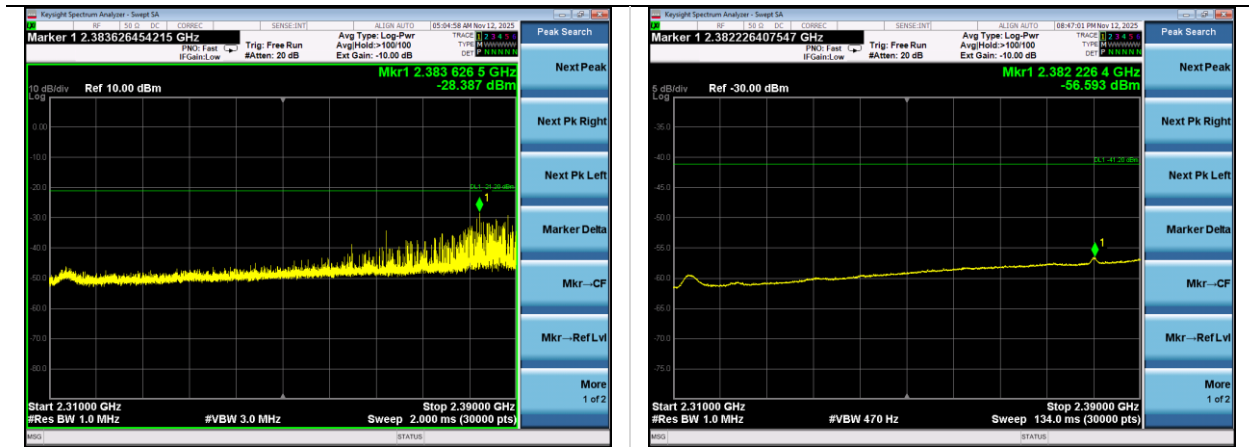
RU242 | MCS0 | Ch 2 | Peak | pwr 21

RU242 | MCS0 | Ch 2 | Average | pwr 21



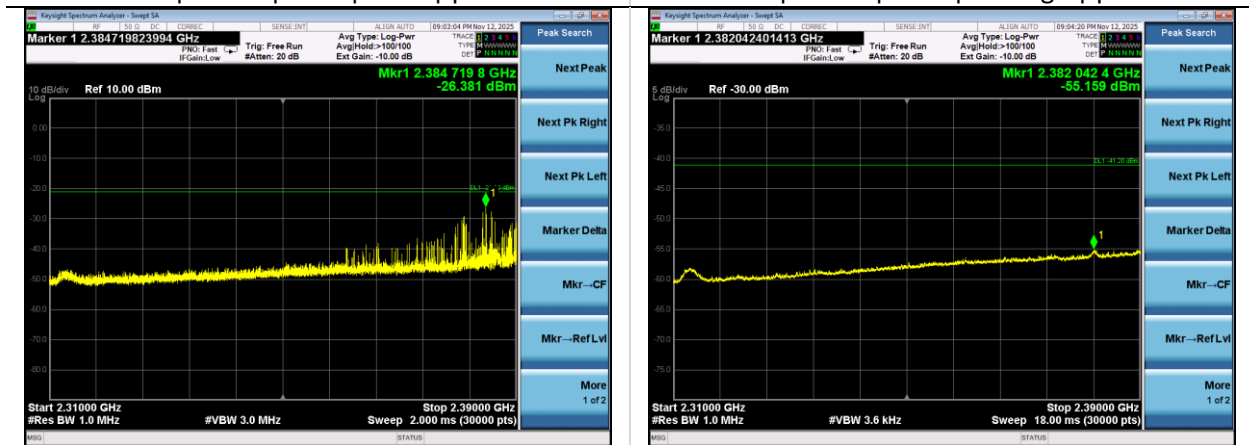
RU242 | MCS7 | Ch 2 | Peak | pwr 16

RU242 | MCS7 | Ch 2 | Average | pwr 16



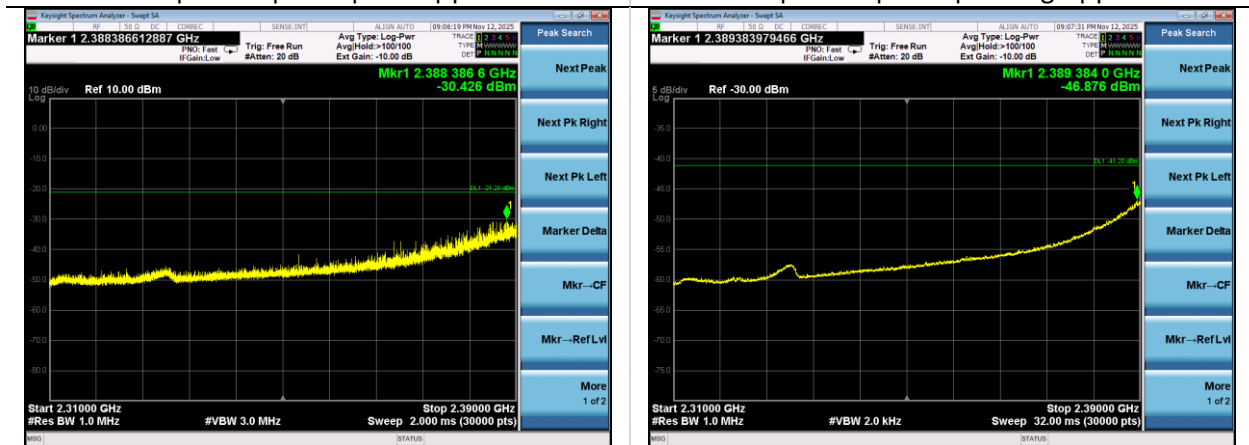
RU52 | MCS0 | Ch 3 | Peak | pwr 16

RU52 | MCS0 | Ch 3 | Average | pwr 16



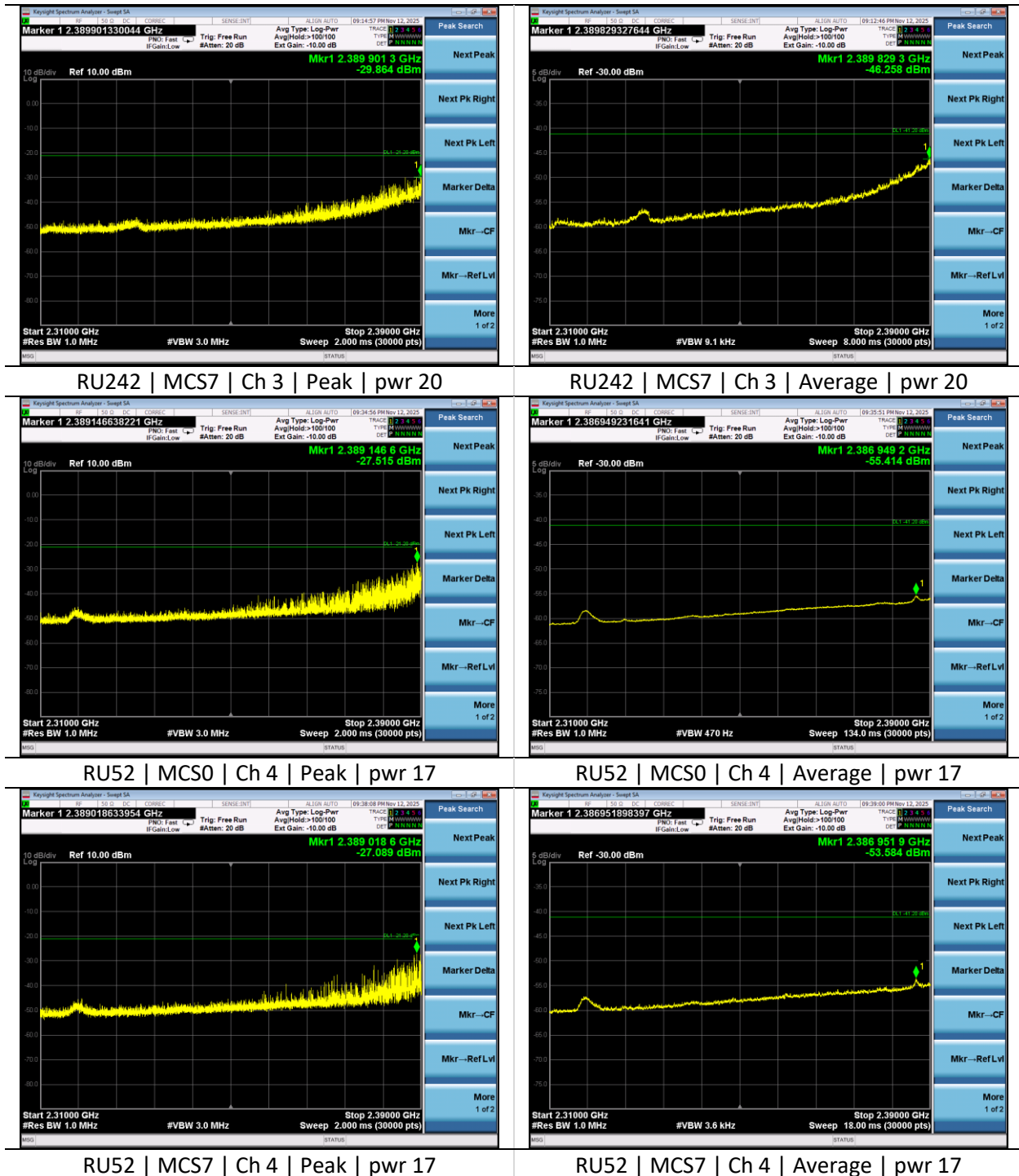
RU52 | MCS7 | Ch 3 | Peak | pwr 16

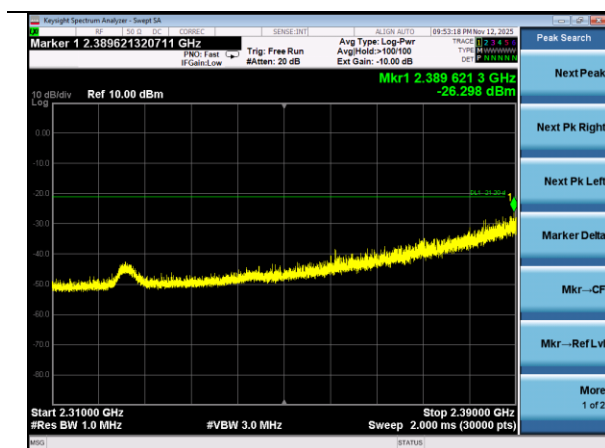
RU52 | MCS7 | Ch 3 | Average | pwr 16



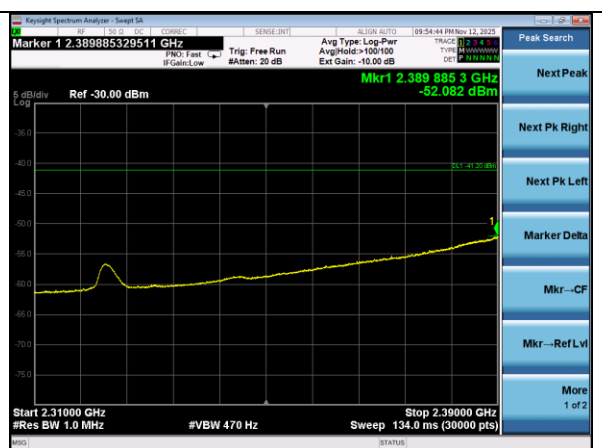
RU242 | MCS0 | Ch 3 | Peak | pwr 21

RU242 | MCS0 | Ch 3 | Average | pwr 21

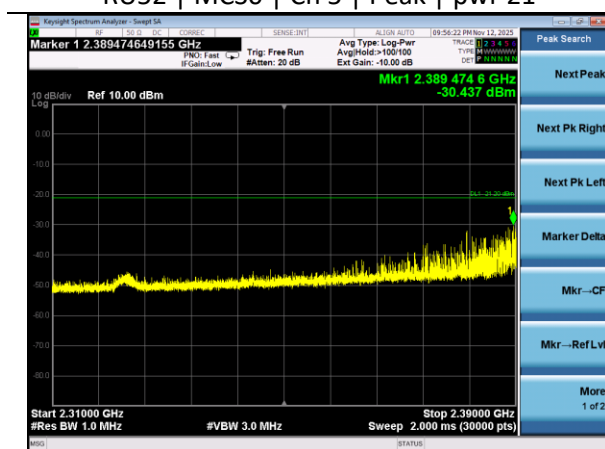




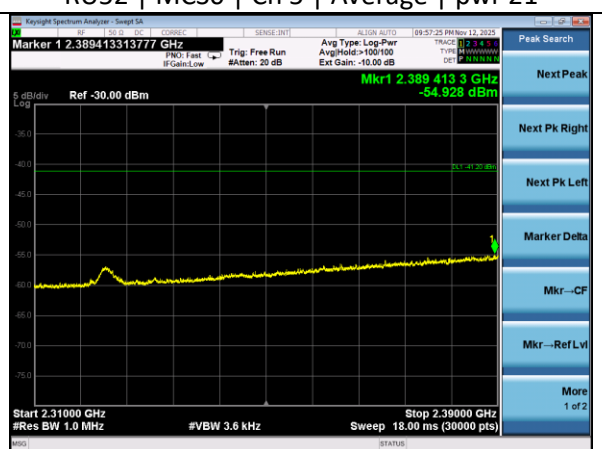
RU52 | MCS0 | Ch 5 | Peak | pwr 21



RU52 | MCS0 | Ch 5 | Average | pwr 21

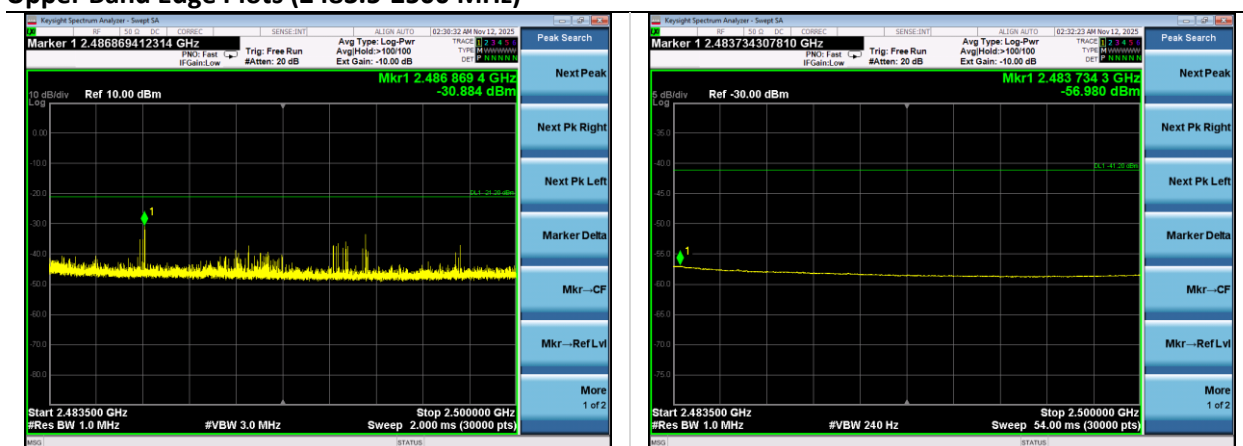


RU52 | MCS7 | Ch 5 | Peak | pwr 21



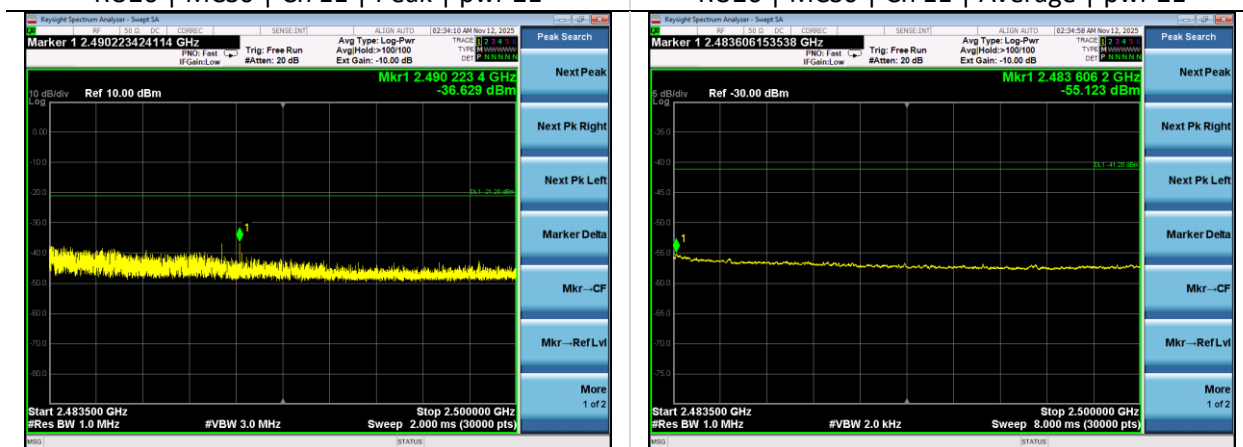
RU52 | MCS7 | Ch 5 | Average | pwr 21

## Upper Band Edge Plots (2483.5-2500 MHz)



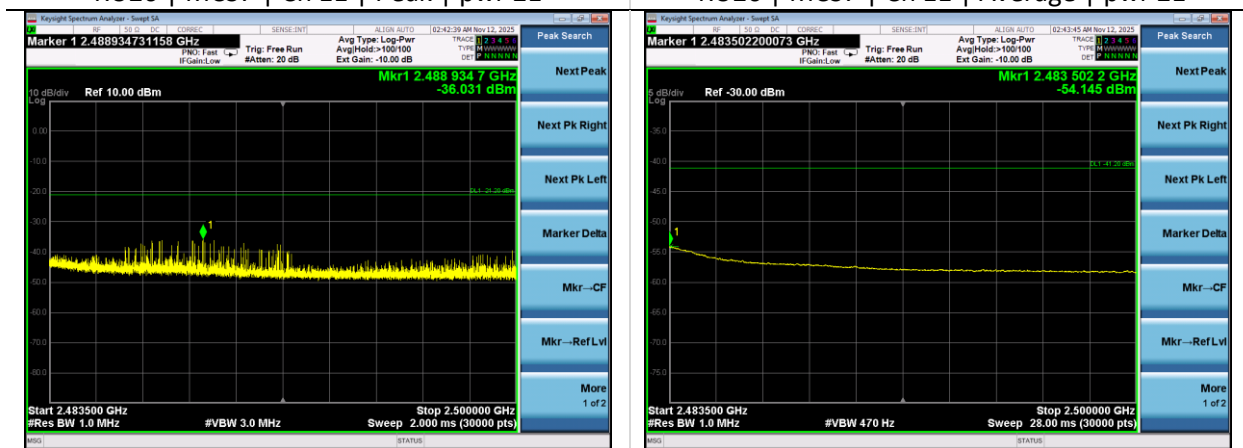
RU26 | MCS0 | Ch 11 | Peak | pwr 21

RU26 | MCS0 | Ch 11 | Average | pwr 21



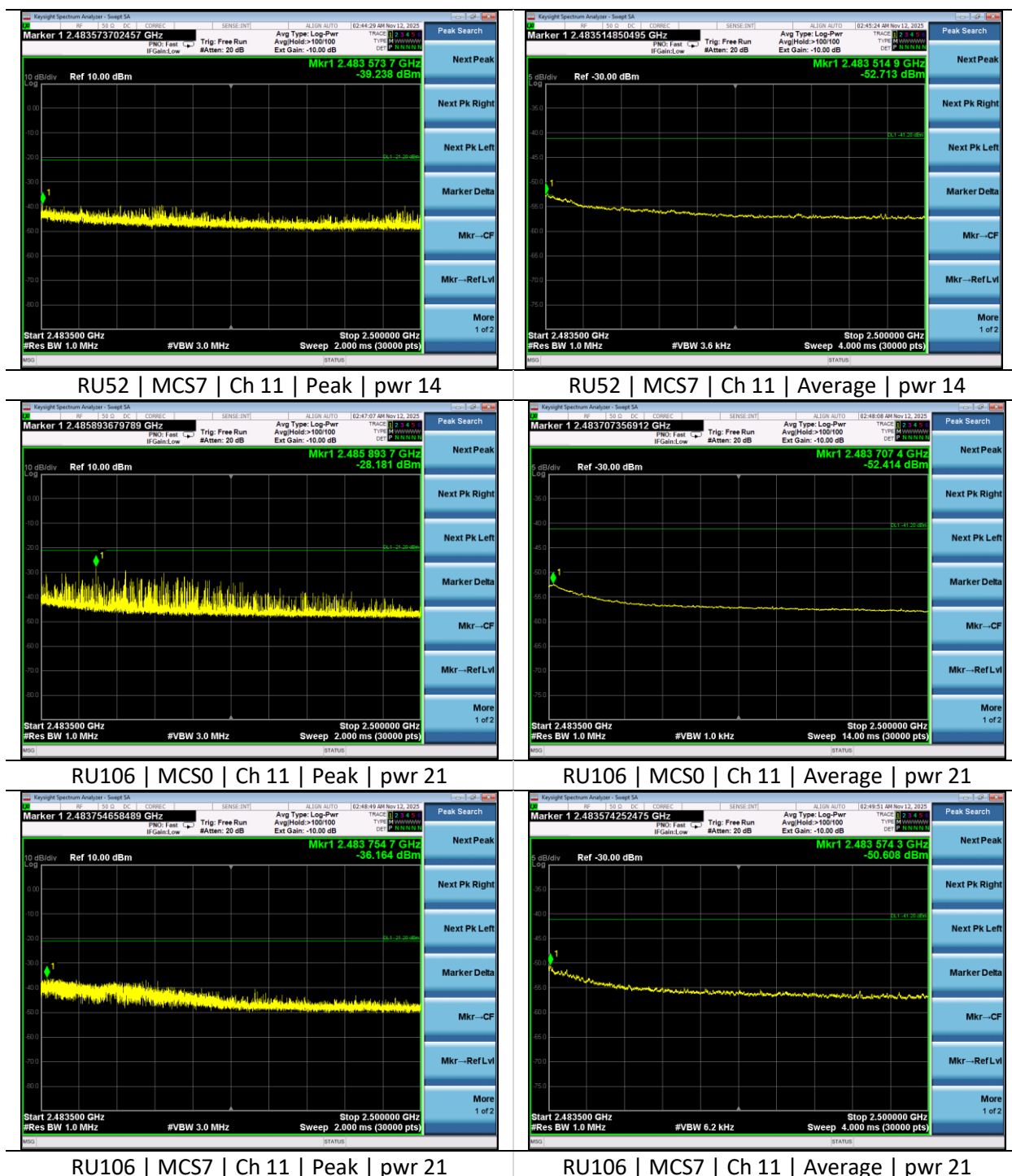
RU26 | MCS7 | Ch 11 | Peak | pwr 21

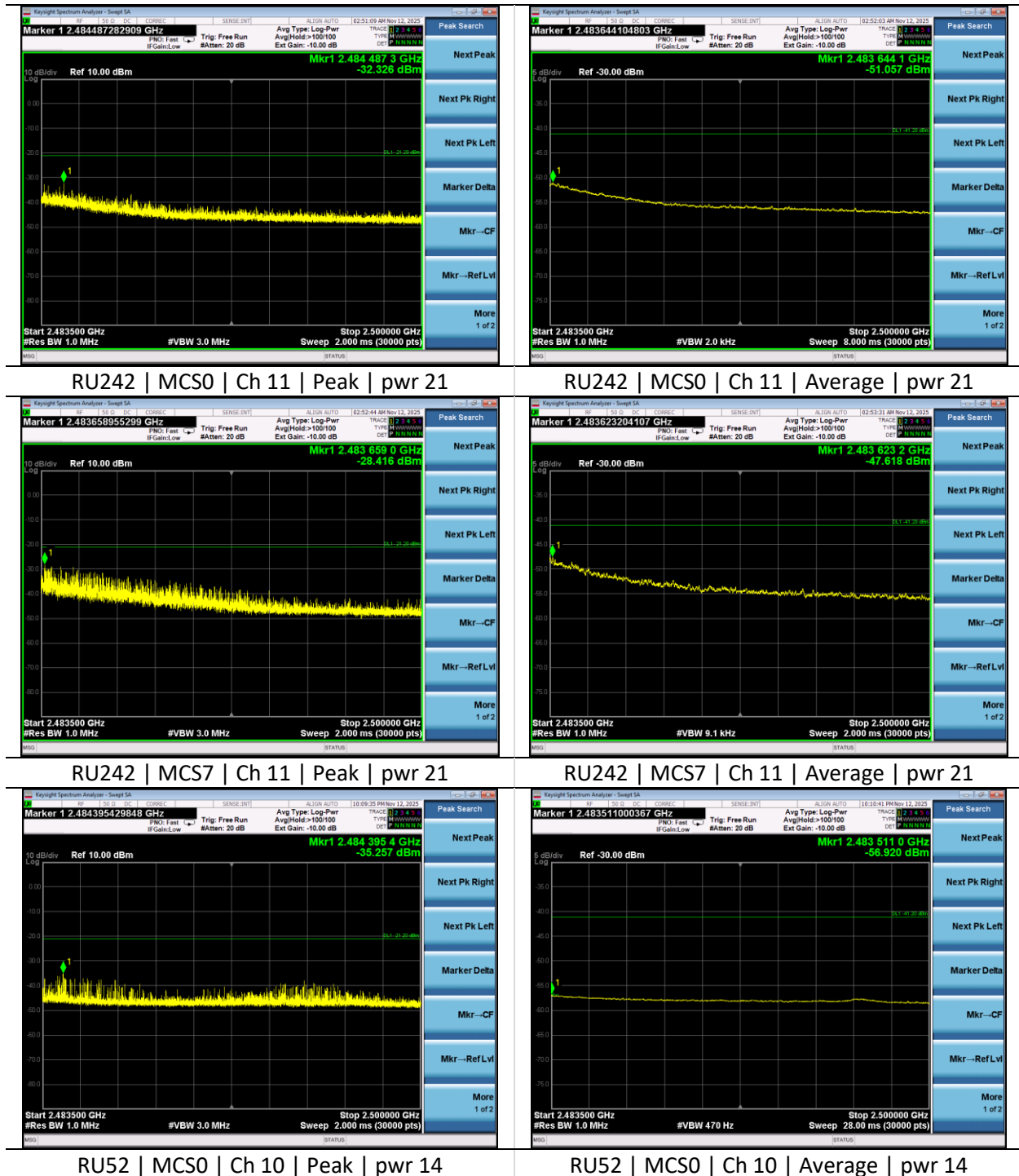
RU26 | MCS7 | Ch 11 | Average | pwr 21



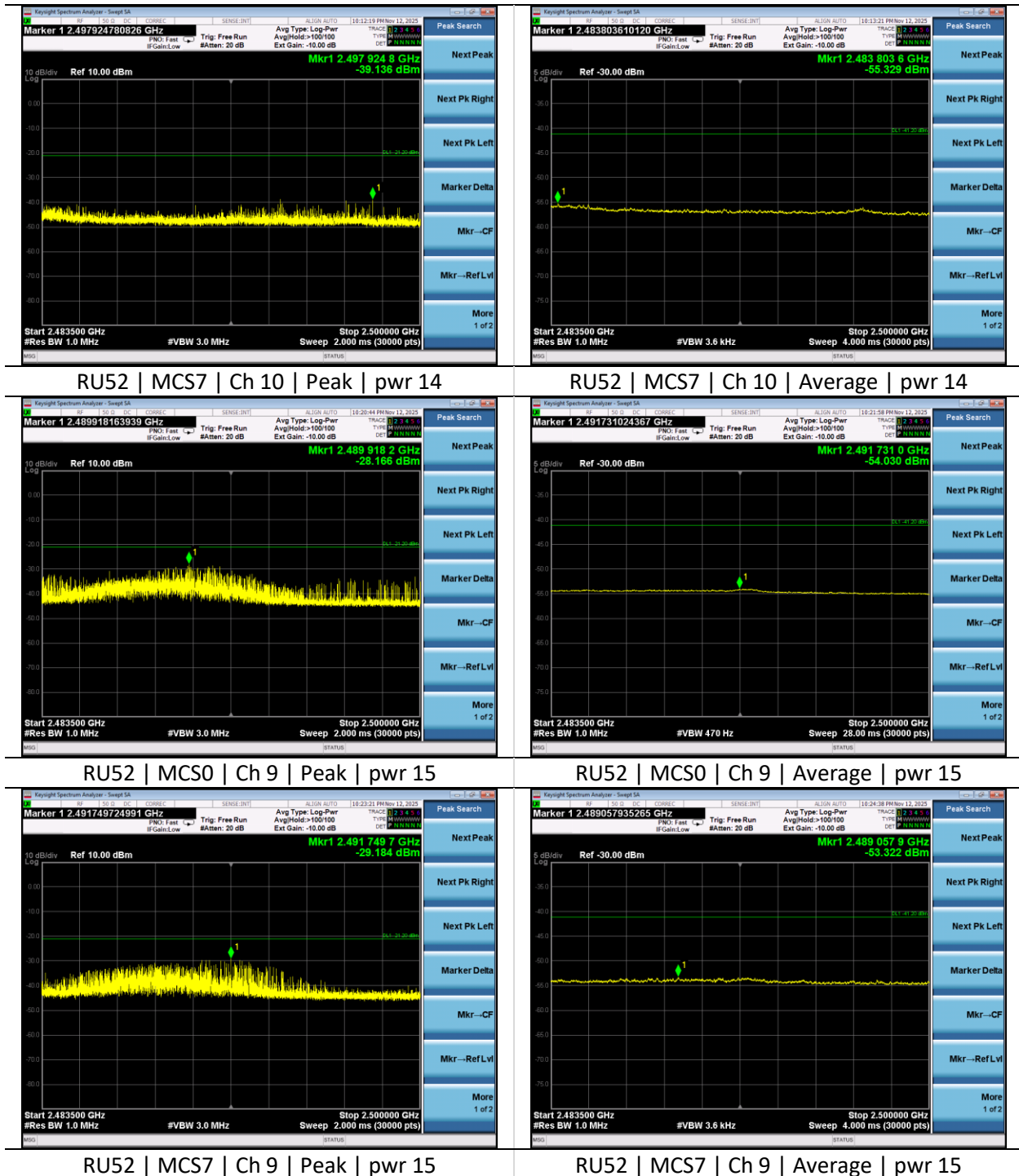
RU52 | MCS0 | Ch 11 | Peak | pwr 14

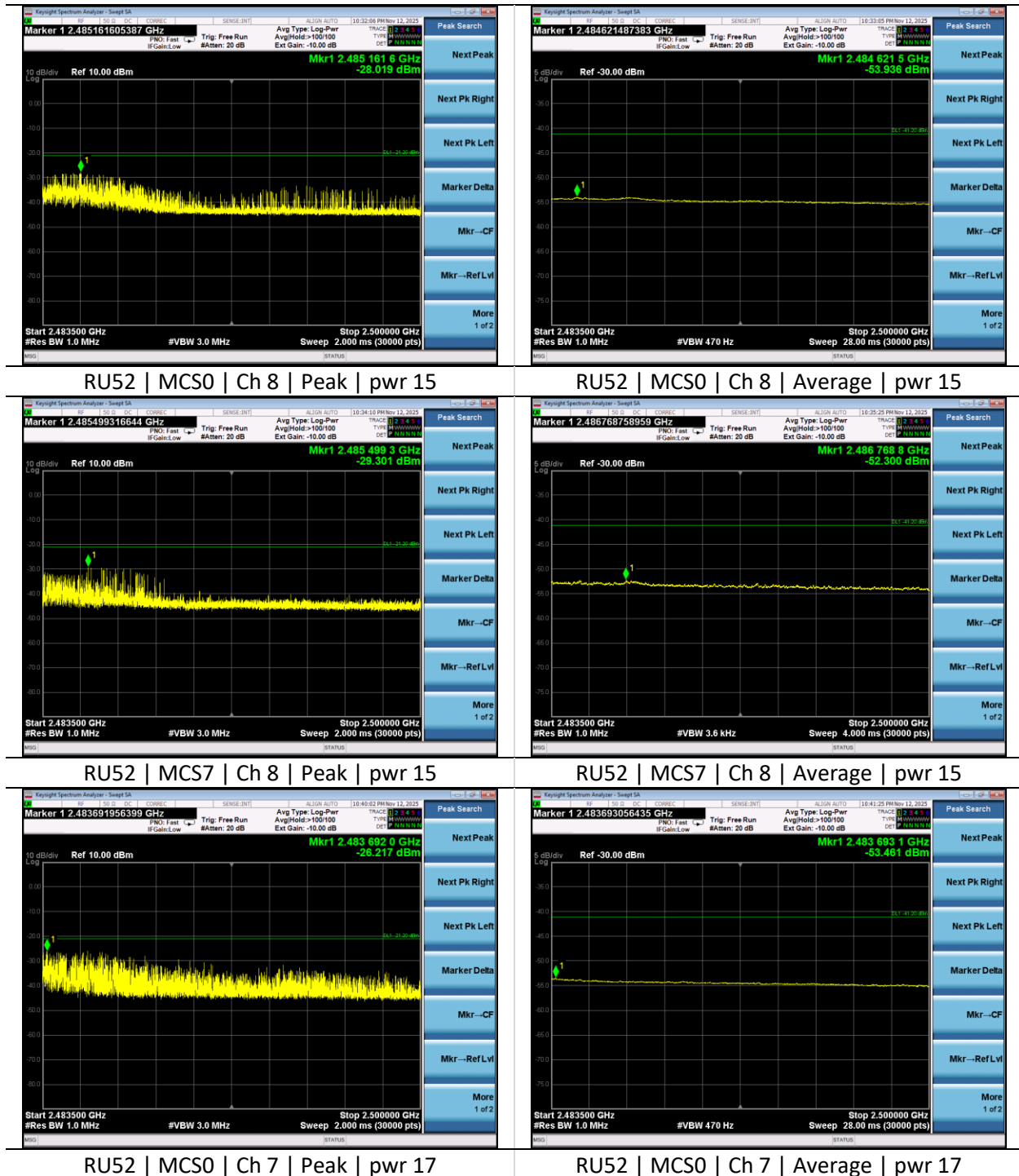
RU52 | MCS0 | Ch 11 | Average | pwr 14

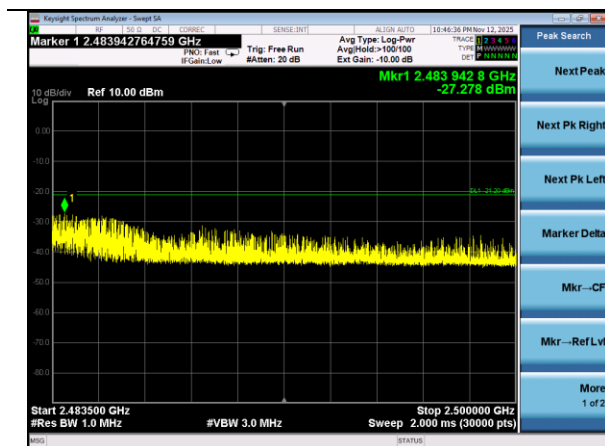




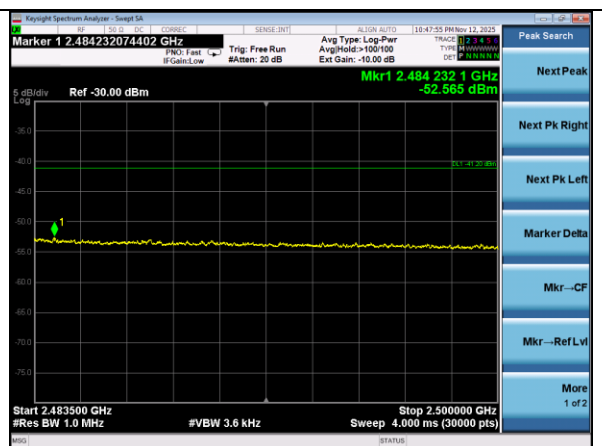




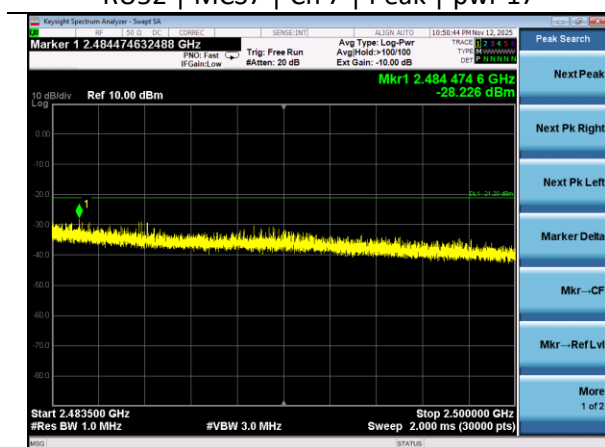




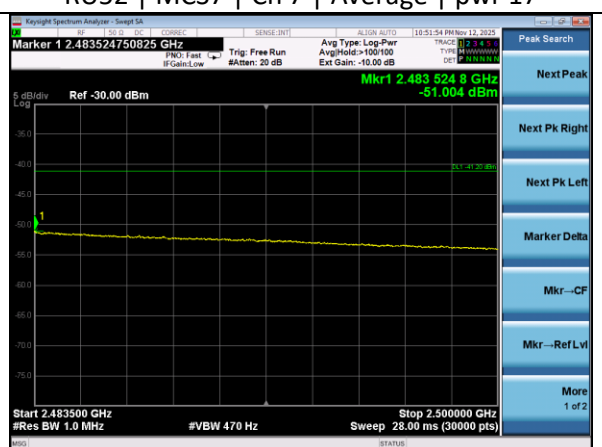
RU52 | MCS7 | Ch 7 | Peak | pwr 17



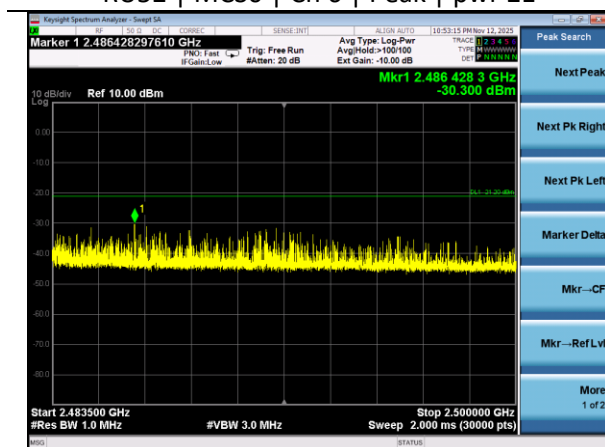
RU52 | MCS7 | Ch 7 | Average | pwr 17



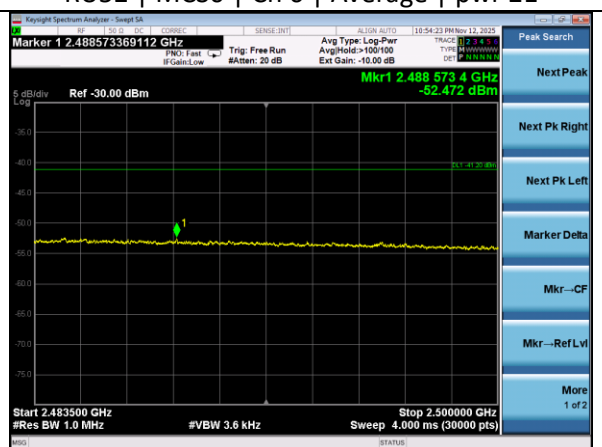
RU52 | MCS0 | Ch 6 | Peak | pwr 21



RU52 | MCS0 | Ch 6 | Average | pwr 21



RU52 | MCS0 | Ch 6 | Peak | pwr 21



RU52 | MCS0 | Ch 6 | Average | pwr 21

## 5.2 Radiated Emissions

<b>Description of Measurement</b>	<p>The frequency spectrum is investigated for intentional and / or unintentional signals emanating from the EUT by use of a standardized test site and measurement antenna.</p> <p>The antenna, cable, pre-amp, and other necessary measurement system correction factors are loaded onto the EMI receiver / spectrum analyzer when the measurements are performed allowing the data to be gathered and reported as corrected values.</p> <p>The maximum emissions from the EUT are determined by turn-table azimuth rotation (360°) and scanning of the measurement antenna. Maximized levels are noted at degree values of azimuth, measurement antenna height, and measurement antenna polarity.</p>
<b>Example Calculations</b>	<p>Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m)</p> <p>Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m)</p> <p>Example at 4000 MHz:  Reading = 40 dBμV + 3.4 dB + 0.9 dB + 6.5 dB/m = 50.8 dBμV/m  Average Limit = 20 log (500) = 54 dBμV/m  Margin = 54 dBμV/m - 50.8 dBμV/m = 3.2 dB</p>

### Block Diagram



### 5.2.1 Band Edge Radiated Emissions in the Restricted Bands – Cabinet Radiation

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Mitchell Freund
<b>Temperature</b>	24.0°C	<b>R.H. %</b>	31.0%
<b>Test Date</b>	11/14/2025	<b>Location</b>	Chamber 5
<b>Requirement</b>	15.247 (d) RSS-GEN Clause 8.9	<b>Method</b>	ANSI C63.10 11.12

#### 15.209 Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

#### Test Parameters

<b>Frequency</b>	2310-2500 MHz	<b>Distance</b>	3 m
<b>Detector(s)</b>	Peak	<b>Table height</b>	150 cm
<b>RBW</b>	1 MHz	<b>VBW</b>	Peak – 3 MHz Average – see 2.8
<b>Note</b>	Maximum antenna gain 3.2 dBi		
<b>Example Calculation</b>	Corrected Measurement = Measurement + Maximum antenna gain		

#### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	9/24/2025	9/24/2026	Active Calibration
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/3/2025	4/3/2026	Active Calibration
LSC-500	Cable	Chamber 5 Emissions	-	-	1/8/2024	1/8/2025	Active Verification

## EUT Parameters

<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>EUT</b>	X, Y, Z Plane Orientations Antenna port terminated with 50 $\Omega$ SMA terminators	<b>AE</b>	HP Elitebook 840G1 Development Kit, NXP 8MPLUS-BB
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7
<b>Notes</b>	Lower Band Edge tested with lowest RU allocation; Upper Band Edge tested on highest RU allocation		

## Lower Band Edge

Mode	Rate	Channel	Measurement Type	Orientation	Polarity	Frequency (MHz)	Corrected Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	1	Peak	X	V	2387.6	62.5	74.0	11.5	19
		1	Average	X	V	2389.7	48.8	54.0	5.2	19
	MCS7	1	Peak	X	V	2361.9	61.7	74.0	12.3	19
		1	Average	X	V	2387.9	49.5	54.0	4.5	19
802.11ax RU52	MCS0	1	Peak	X	V	2377.1	62.0	74.0	12.0	19*
		1	Average	X	V	2378.2	48.8	54.0	5.2	19*
	MCS7	1	Peak	X	V	2346.9	61.8	74.0	12.2	19*
		1	Average	X	V	2390.0	50.1	54.0	3.9	19*
802.11ax RU106	MCS0	1	Peak	X	V	2382.9	61.8	74.0	12.2	18
		1	Average	X	V	2389.8	49.3	54.0	4.7	18
	MCS7	1	Peak	X	V	2389.9	62.1	74.0	11.9	18
		1	Average	X	V	2387.7	50.5	54.0	3.5	18
802.11ax RU242	MCS0	1	Peak	X	V	2319.6	62.3	74.0	11.7	21*
		1	Average	X	V	2384.4	49.6	54.0	4.4	21*
	MCS7	1	Peak	X	V	2378.1	61.7	74.0	12.3	21*
		1	Average	X	V	2390.0	51.4	54.0	2.6	21*

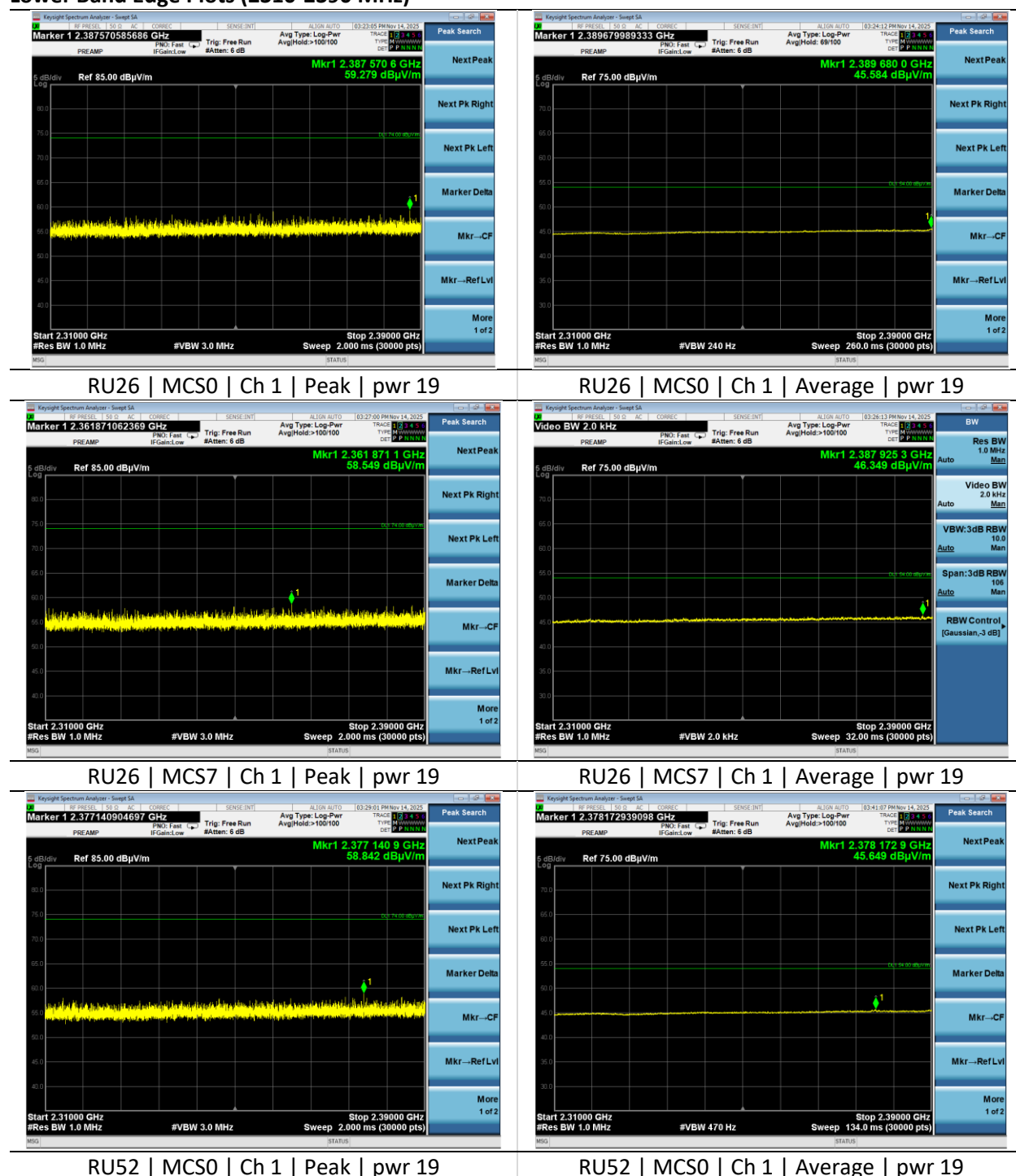
\*Tested at a higher power setting than specified in section 2.9

## Upper Band Edge

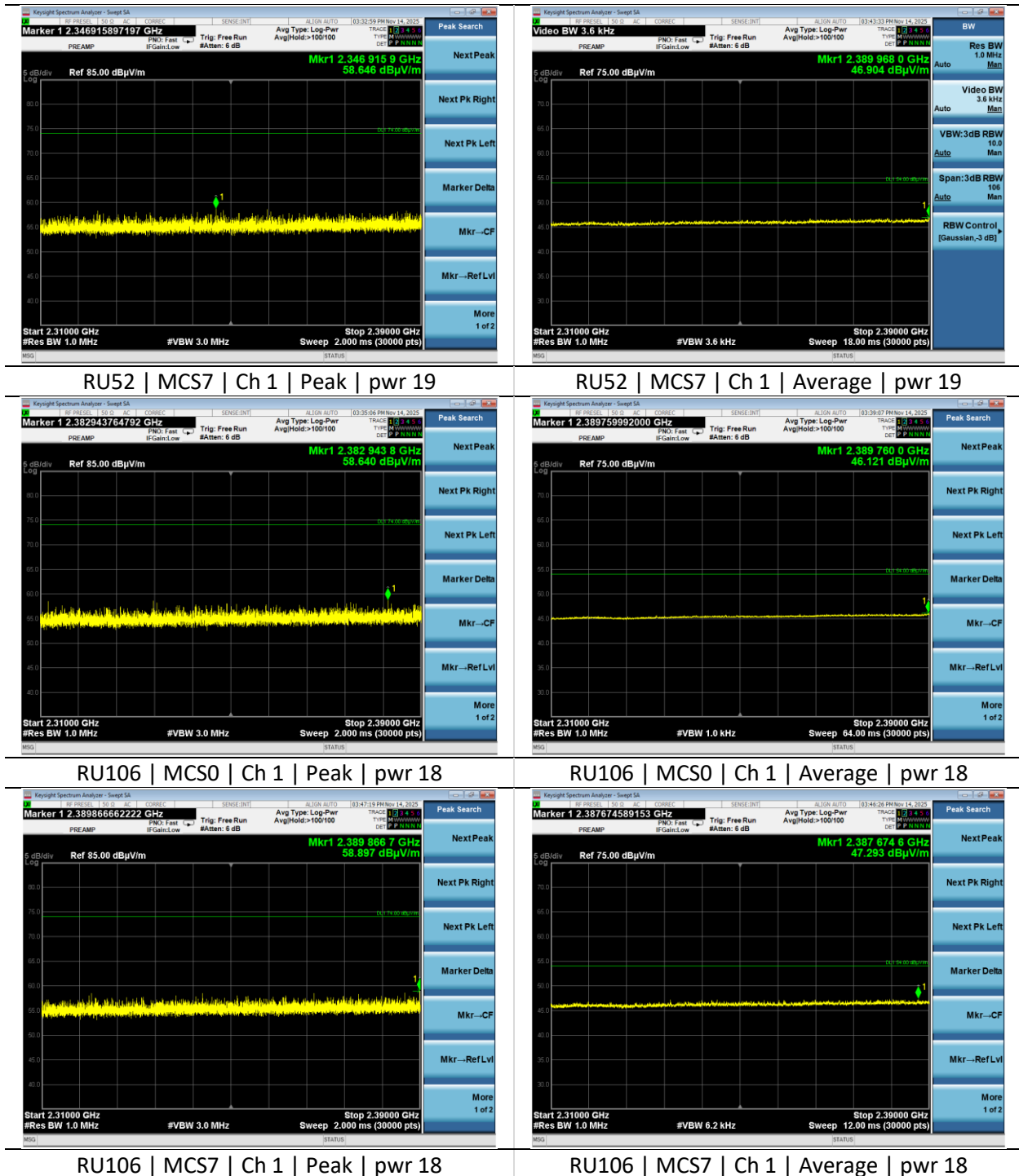
Mode	Rate	Channel	Measurement Type	Orientation	Polarity	Frequency (MHz)	Corrected Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	11	Peak	Y	H	2488.6	62.0	74.0	12.0	19
		11	Average	Y	H	2491.2	48.5	54.0	5.5	19
	MCS7	11	Peak	Y	H	2488.1	61.5	74.0	12.5	19
		11	Average	Y	H	2499.4	49.4	54.0	4.6	19
802.11ax RU52	MCS0	11	Peak	Y	H	2487.8	62.0	74.0	12.0	19*
		11	Average	Y	H	2488.6	48.7	54.0	5.3	19*
	MCS7	11	Peak	Y	H	2499.6	62.0	74.0	12.0	19*
		11	Average	Y	H	2496.2	49.9	54.0	4.1	19*
802.11ax RU106	MCS0	11	Peak	Y	H	2489.1	61.7	74.0	12.3	18
		11	Average	Y	H	2488.4	49.0	54.0	5.0	18
	MCS7	11	Peak	Y	H	2499.2	62.9	74.0	11.1	18
		11	Average	Y	H	2487.3	50.4	54.0	3.6	18
802.11ax RU242	MCS0	11	Peak	Y	H	2491.3	62.6	74.0	11.4	21*
		11	Average	Y	H	2488.3	49.4	54.0	4.6	21*
	MCS7	11	Peak	Y	H	2488.6	62.3	74.0	11.7	21*
		11	Average	Y	H	2498.0	50.8	54.0	3.2	21*

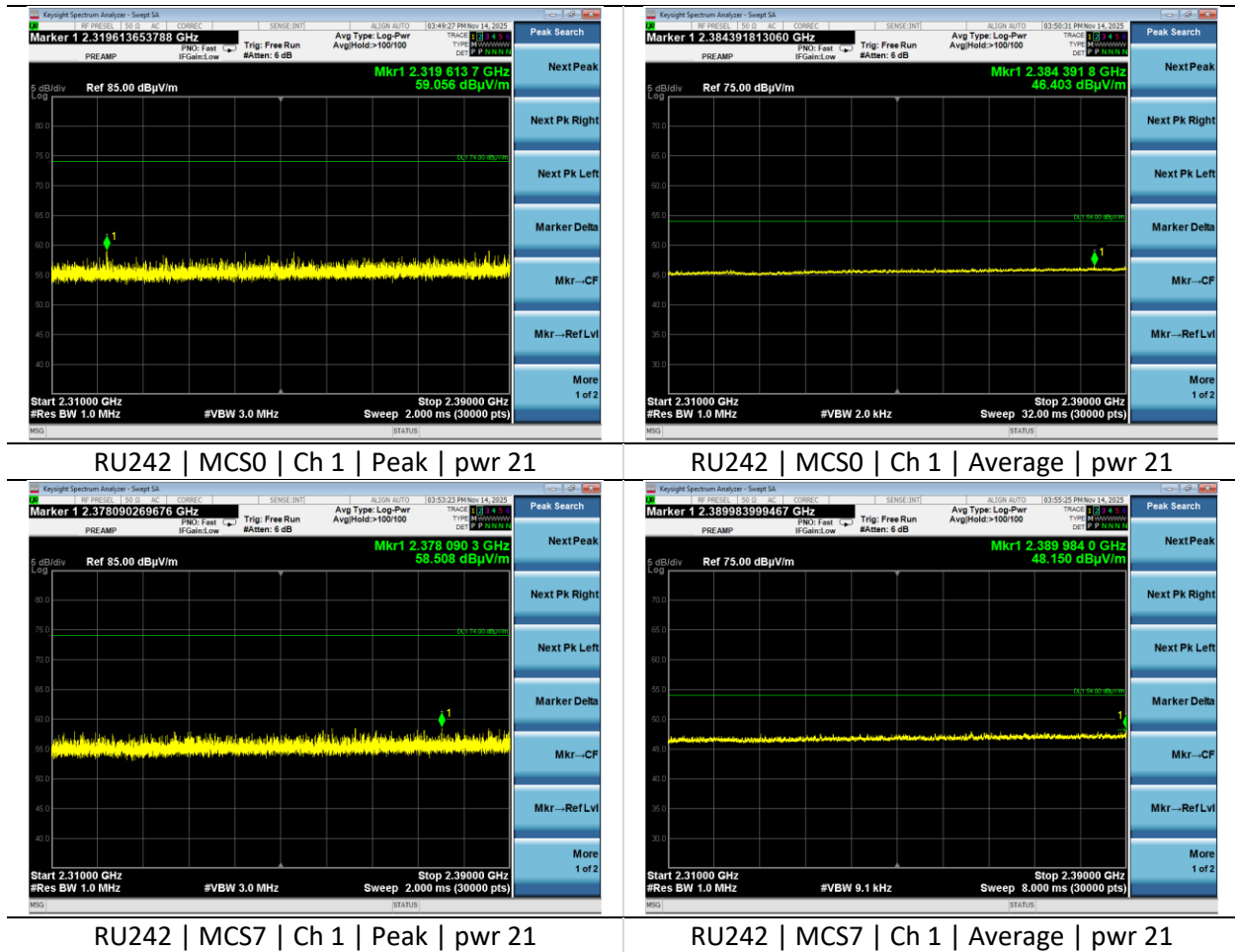
\*Tested at a higher power setting than specified in section 2.9

## Lower Band Edge Plots (2310-2390 MHz)

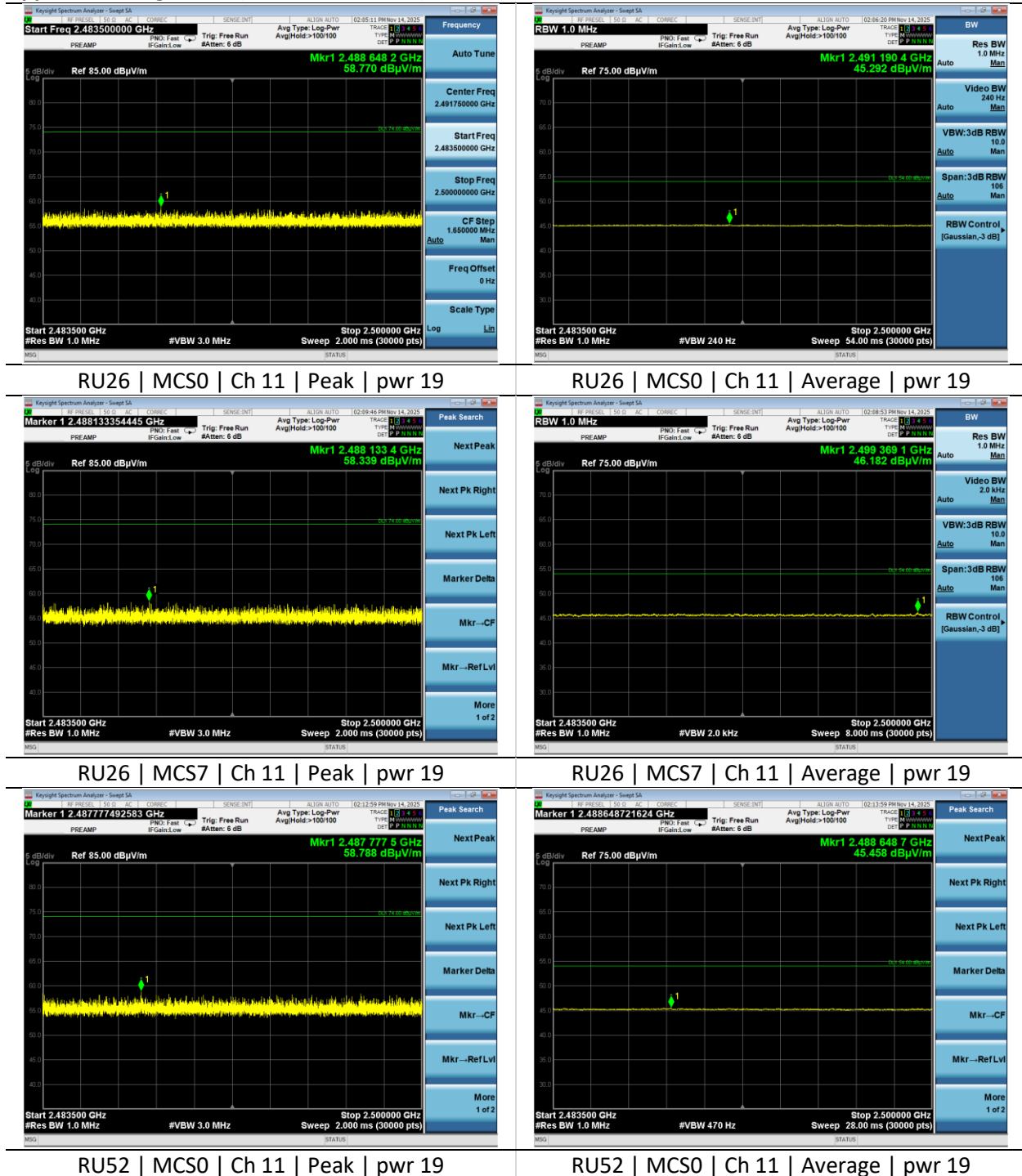


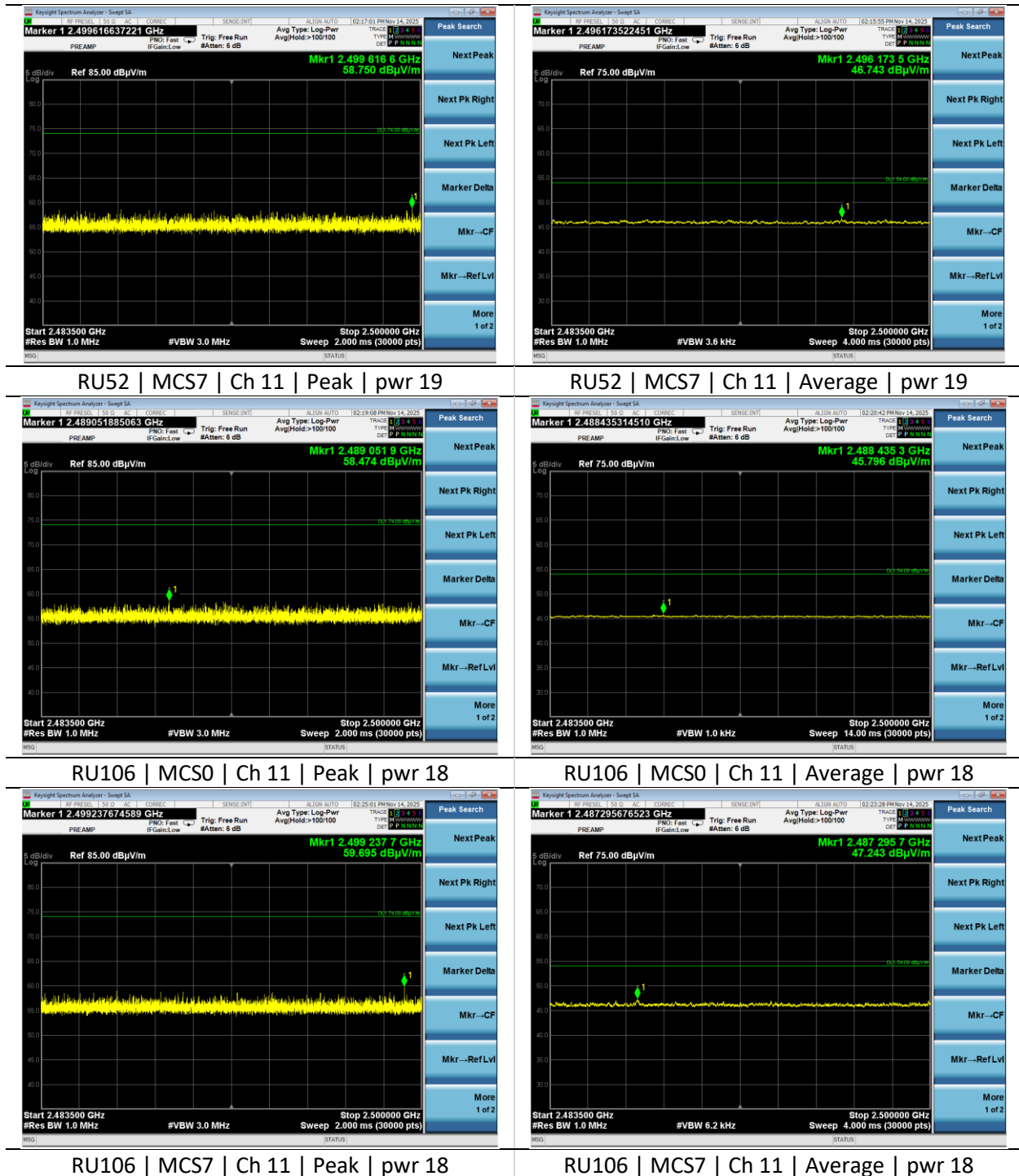


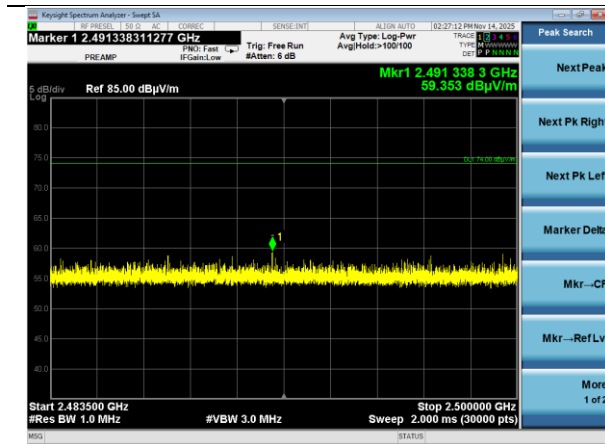




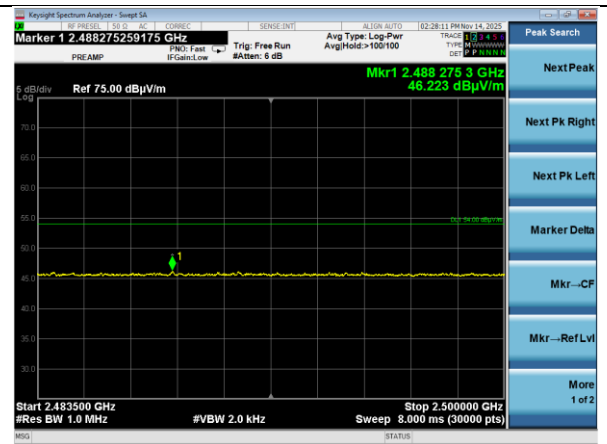
## Upper Band Edge Plots (2483.5-2500 MHz)



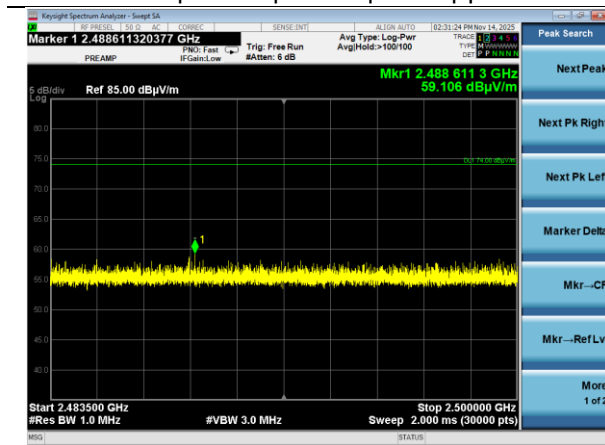




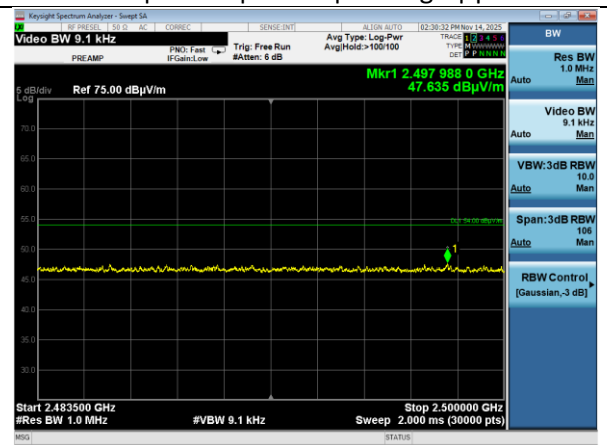
RU242 | MCS0 | Ch 11 | Peak | pwr 21



RU242 | MCS0 | Ch 11 | Average | pwr 21



RU242 | MCS7 | Ch 11 | Peak | pwr 21



RU242 | MCS7 | Ch 11 | Average | pwr 21

## 5.2.2 Band Edge Radiated Emissions in the Restricted Bands – Chip Antenna

<b>Operator</b>	Dylan Rosenfeldt	<b>QA</b>	Mitchell Freund
<b>Temperature</b>	23.8°C, 23.9°C	<b>R.H. %</b>	30.5%, 31.1%
<b>Test Date</b>	11/13/2025, 11/14/2025	<b>Location</b>	Chamber 5
<b>Requirement</b>	15.247(d) RSS-GEN 8.9	<b>Method</b>	ANSI C63.10 11.12

### 15.209 Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

### Test Parameters

<b>Frequency</b>	2310-2500 MHz	<b>Setup</b>	Antenna Port
<b>Detector(s)</b>	1 MHz	<b>VBW</b>	Peak – 3 MHz Average – see 2.8
<b>RBW</b>	Peak	<b>Settings</b>	Max Hold

### Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	9/24/2025	9/24/2026	Active Calibration
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/3/2025	4/3/2026	Active Calibration
LSC-500	Cable	Chamber 5 Emissions	-	-	1/8/2024	1/8/2025	Active Verification

## EUT Parameters

<b>Input Power</b>	5V DC via 120V AC adapter	<b>Mode</b>	2.4 GHz WLAN Tx
<b>EUT</b>	X, Y, Z Plane Orientations Integral chip antenna	<b>AE</b>	HP Elitebook 840G1 Development Kit, NXP 8MPLUS-BB
<b>Frequency</b>	2400-2483.5 MHz	<b>Channel</b>	See 2.7
<b>Notes</b>	Lower Band Edge tested with lowest RU allocation; Upper Band Edge tested on highest RU allocation		

## Measurements – Lower Band Edge

Mode	Rate	Channel	Measurement Type	Orientation	Polarity	Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	1	Peak	Y	H	2385.8	66.6	74.0	7.4	19
		1	Average	Y	H	2389.8	45.8	54.0	8.2	19
	MCS7	1	Peak	Y	H	2389.0	66.3	74.0	7.7	19
		1	Average	Y	H	2390.0	46.7	54.0	7.3	19
802.11ax RU52	MCS0	1	Peak	Y	H	2386.6	66.4	74.0	7.6	19*
		1	Average	Y	H	2390.0	46.7	54.0	7.3	19*
	MCS7	1	Peak	Y	H	2385.8	70.4	74.0	3.6	19*
		1	Average	Y	H	2390.0	47.9	54.0	6.1	19*
802.11ax RU106	MCS0	1	Peak	Y	H	2389.8	68.2	74.0	5.8	18
		1	Average	Y	H	2389.9	47.6	54.0	6.4	18
	MCS7	1	Peak	Y	H	2388.0	63.0	74.0	11.0	18
		1	Average	Y	H	2389.9	49.7	54.0	4.3	18
802.11ax RU242	MCS0	1	Peak	Y	H	2389.8	63.3	74.0	10.7	14
		1	Average	Y	H	2389.8	49.4	54.0	4.6	14
	MCS7	1	Peak	Y	H	2388.5	62.0	74.0	12.0	14
		1	Average	Y	H	2389.5	50.8	54.0	3.2	14
802.11ax RU242	MCS0	2	Peak	Y	H	2387.4	66.3	74.0	7.7	21*
		2	Average	Y	H	2389.9	51.2	54.0	2.8	21*
	MCS7	2	Peak	Y	H	2387.0	65.3	74.0	8.7	21*
		2	Average	Y	H	2389.2	52.1	54.0	1.9	21*

\*Tested at a higher power setting than specified in section 2.9

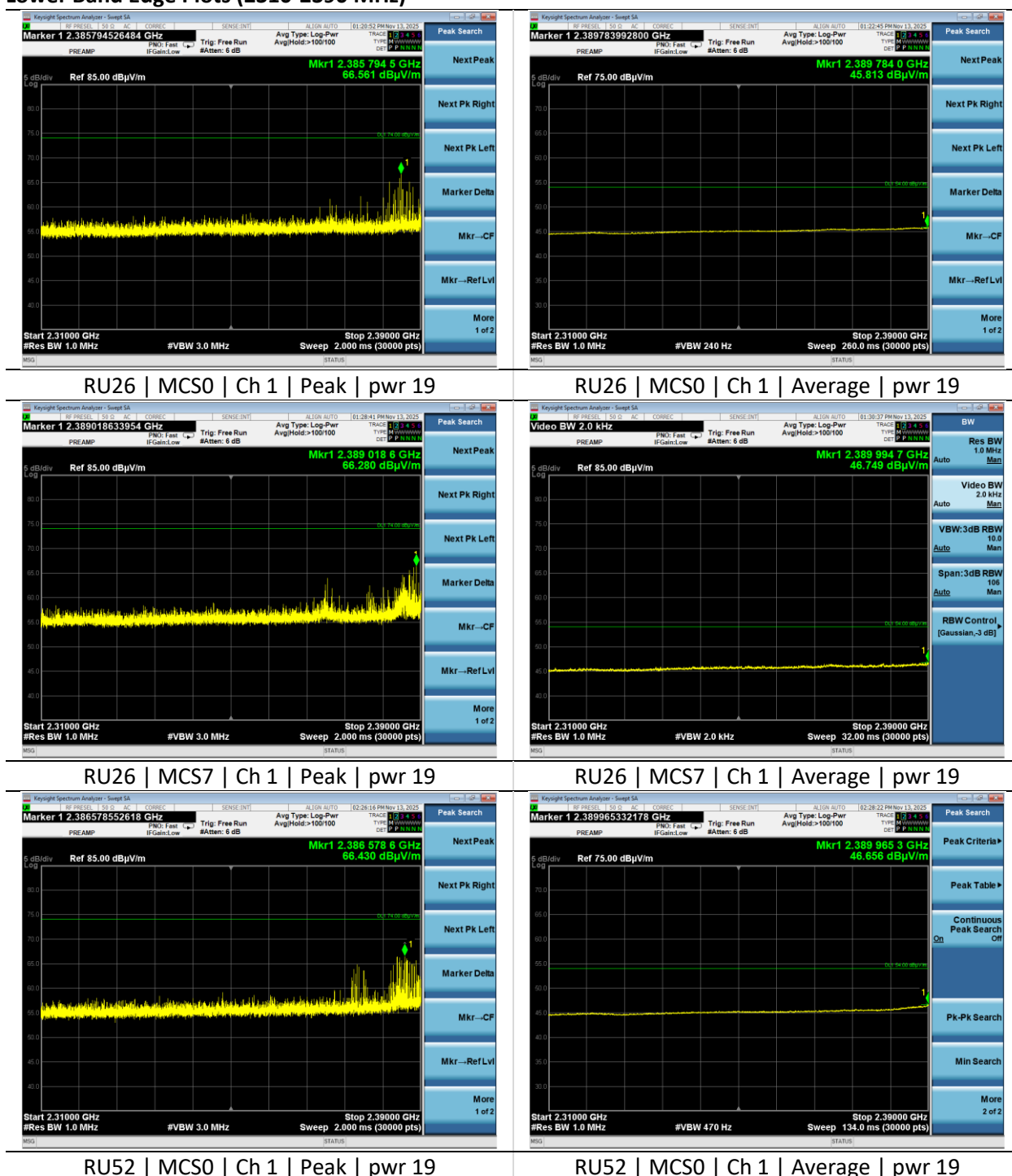
## Measurements – Upper Band Edge

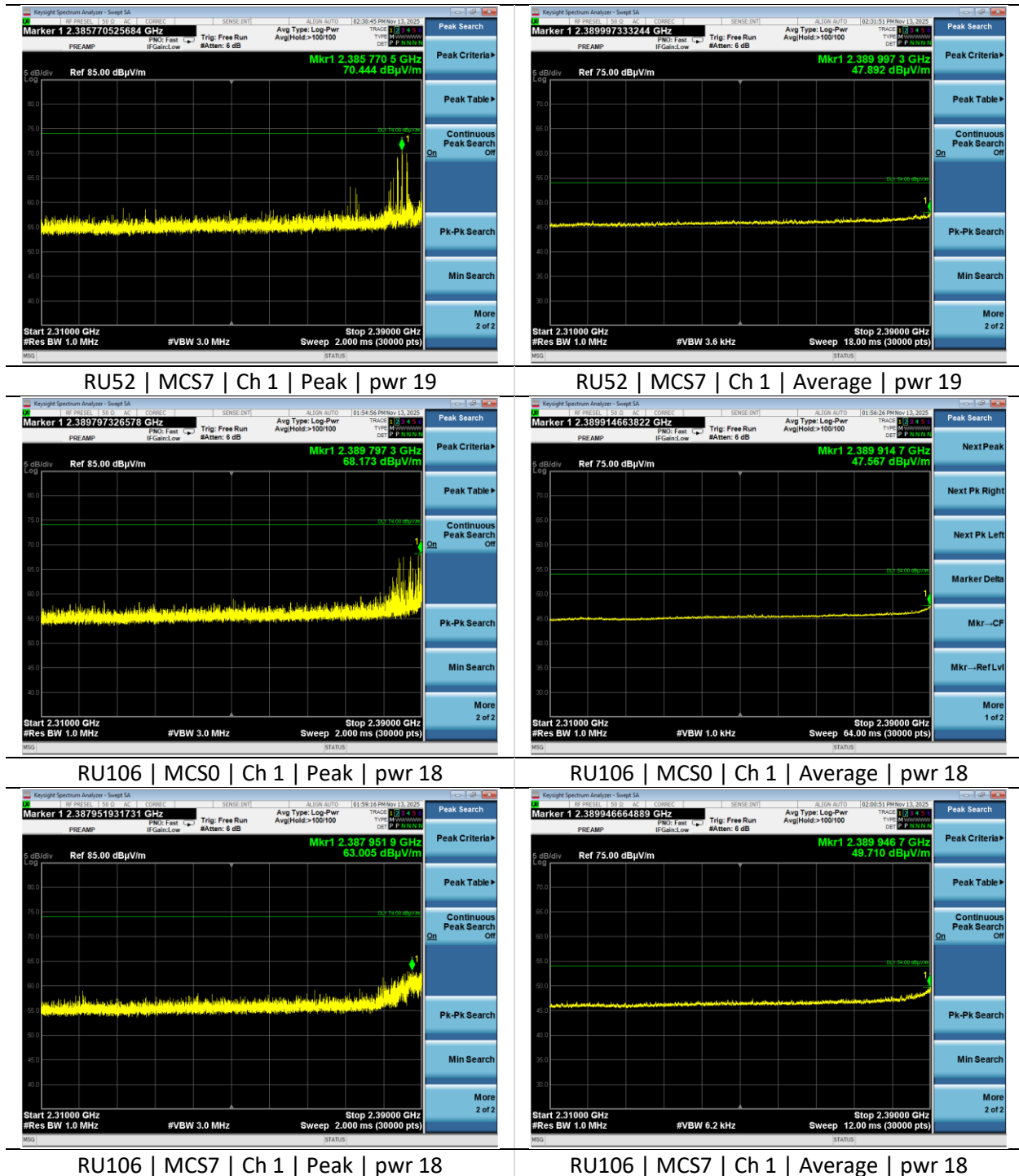
Mode	Rate	Channel	Measurement Type	Orientation	Polarity	Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Power Setting
802.11ax RU26	MCS0	11	Peak	X	H	2486.8	68.7	74.0	5.3	19
		11	Average	X	H	2483.5	46.1	54.0	7.9	19
	MCS7	11	Peak	X	H	2483.7	61.3	74.0	12.7	19
		11	Average	X	H	2483.8	46.7	54.0	7.3	19
802.11ax RU52	MCS0	11	Peak	X	H	2488.0	60.7	74.0	13.3	14
		11	Average	X	H	2483.5	47.1	54.0	6.9	14
	MCS7	11	Peak	X	H	2488.7	61.6	74.0	12.4	14
		11	Average	X	H	2483.5	48.2	54.0	5.8	14
802.11ax RU106	MCS0	11	Peak	X	H	2485.5	69.4	74.0	4.6	18
		11	Average	X	H	2483.8	47.8	54.0	6.2	18
	MCS7	11	Peak	X	H	2483.7	64.2	74.0	9.8	18
		11	Average	X	H	2483.9	49.2	54.0	4.8	18
802.11ax RU242	MCS0	11	Peak	X	H	2483.8	64.5	74.0	9.5	21*
		11	Average	X	H	2483.7	48.9	54.0	5.1	21*
	MCS7	11	Peak	X	H	2484.1	70.3	74.0	3.7	21*
		11	Average	X	H	2483.7	51.5	54.0	2.5	21*
802.11ax RU52	MCS0	9	Peak	X	H	2489.4	67.7	74.0	6.3	15
		9	Average	X	H	2484.2	46.9	54.0	7.1	15
	MCS7	9	Peak	X	H	2491.5	68.4	74.0	5.6	15
		9	Average	X	H	2486.0	48.2	54.0	5.8	15
802.11ax RU52	MCS0	7	Peak	X	H	2483.8	68.2	74.0	5.8	17
		7	Average	X	H	2483.6	47.0	54.0	7.0	17
	MCS7	7	Peak	X	H	2484.8	68.2	74.0	5.8	17
		7	Average	X	H	2485.4	48.4	54.0	5.6	17
802.11ax RU52	MCS0	6	Peak	X	H	2483.6	67.3	74.0	6.7	19
		6	Average	X	H	2484.3	47.6	54.0	6.4	19
	MCS7	6	Peak	X	H	2484.6	65.4	74.0	8.6	19
		6	Average	X	H	2484.9	48.6	54.0	5.4	19

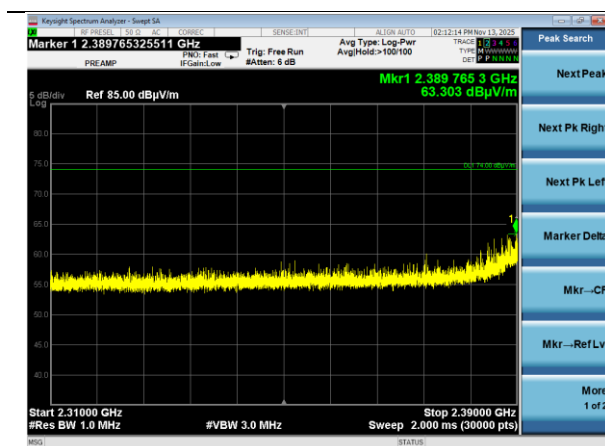
\*Tested at a higher power setting than specified in section 2.9



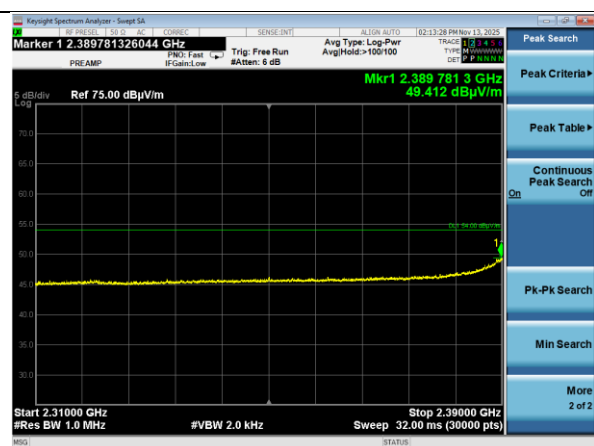
## Lower Band Edge Plots (2310-2390 MHz)



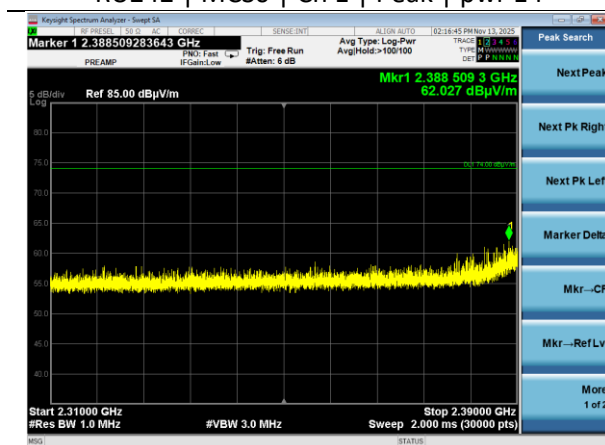




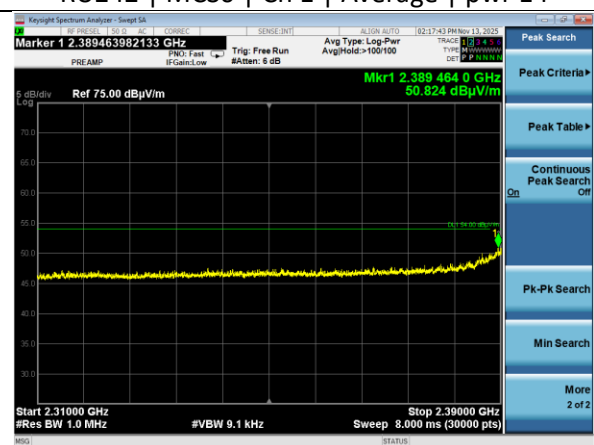
RU242 | MCS0 | Ch 1 | Peak | pwr 14



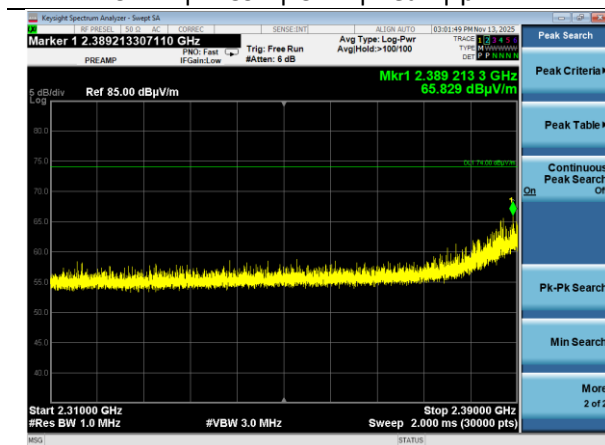
RU242 | MCS0 | Ch 1 | Average | pwr 14



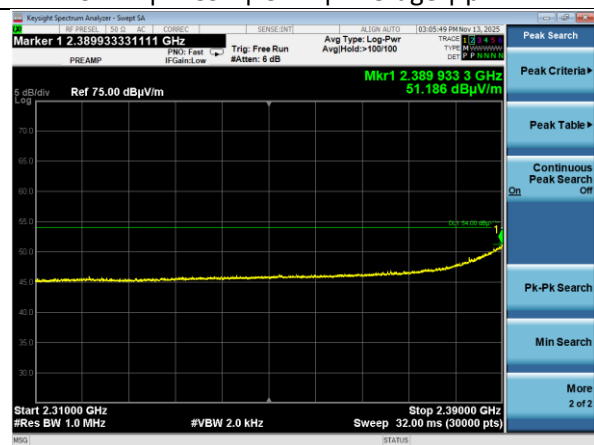
RU242 | MCS7 | Ch 1 | Peak | pwr 14



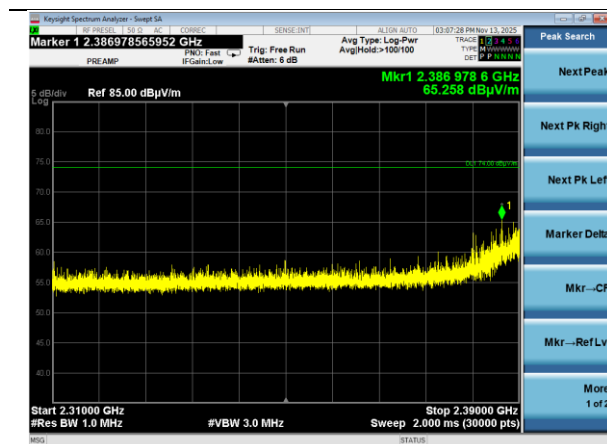
RU242 | MCS7 | Ch 1 | Average | pwr 14



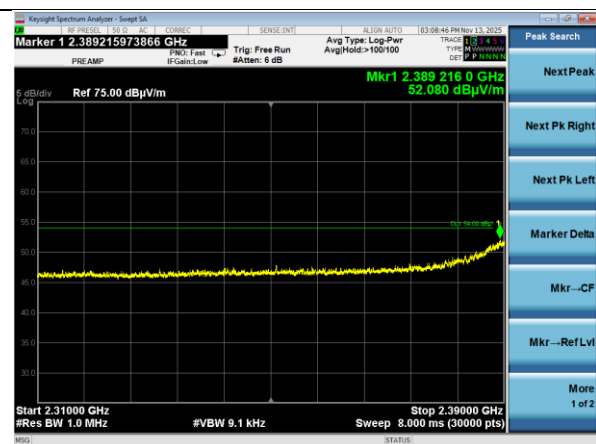
RU242 | MCS0 | Ch 2 | Peak | pwr 21



RU242 | MCS0 | Ch 2 | Average | pwr 21

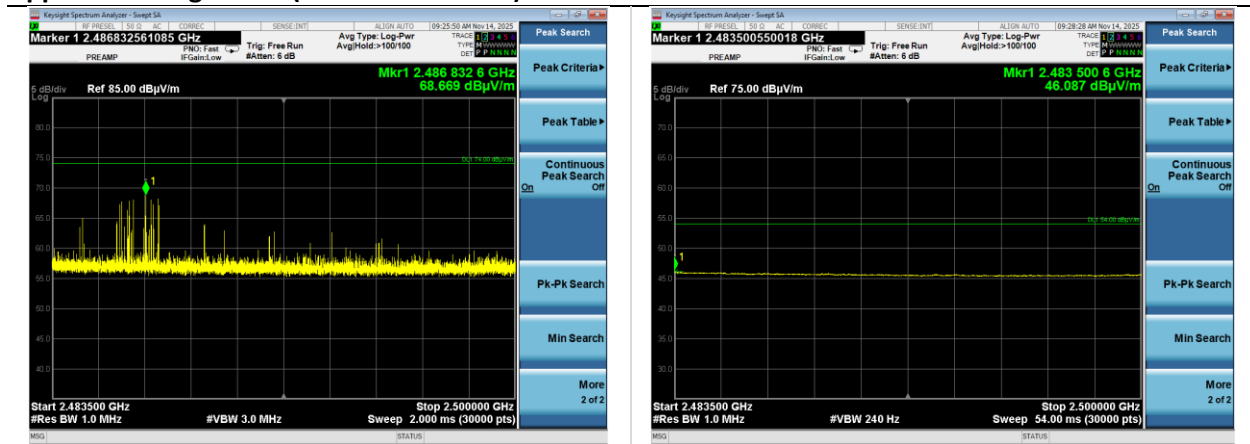


RU242 | MCS7 | Ch 2 | Peak | pwr 21



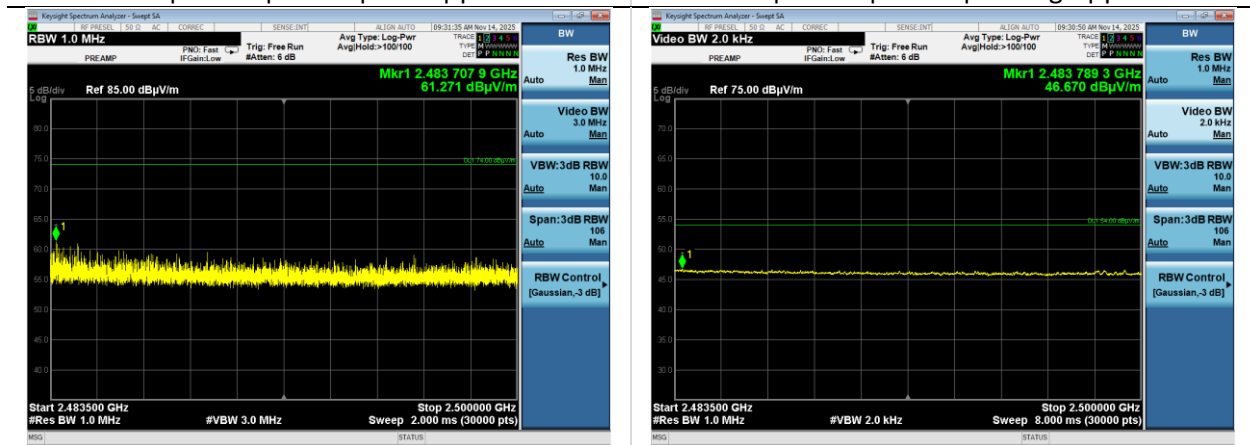
RU242 | MCS7 | Ch 2 | Average | pwr 21

## Upper Band Edge Plots (2483.5-2500 MHz)



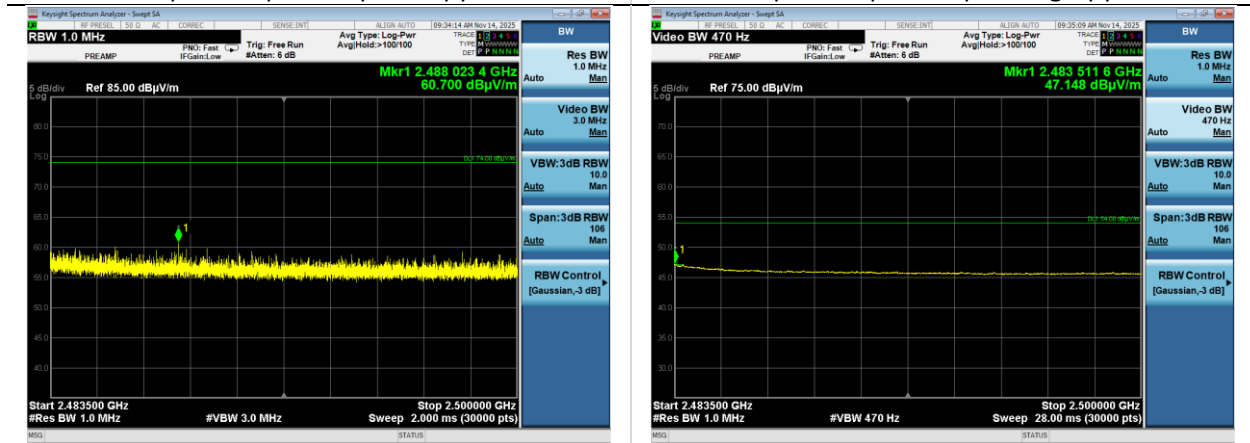
RU26 | MCS0 | Ch 11 | Peak | pwr 19

RU26 | MCS0 | Ch 11 | Average | pwr 19



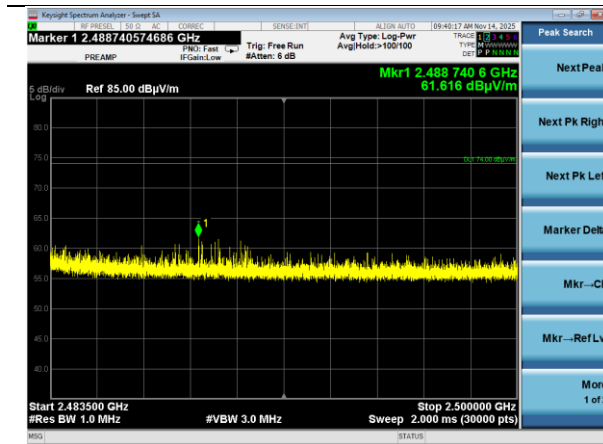
RU26 | MCS7 | Ch 11 | Peak | pwr 19

RU26 | MCS7 | Ch 11 | Average | pwr 19

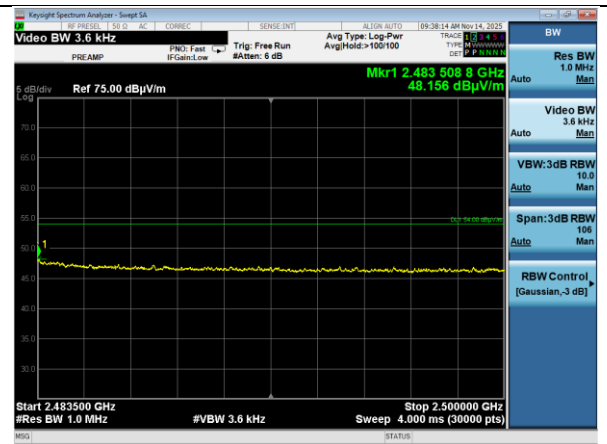


RU52 | MCS0 | Ch 11 | Peak | pwr 14

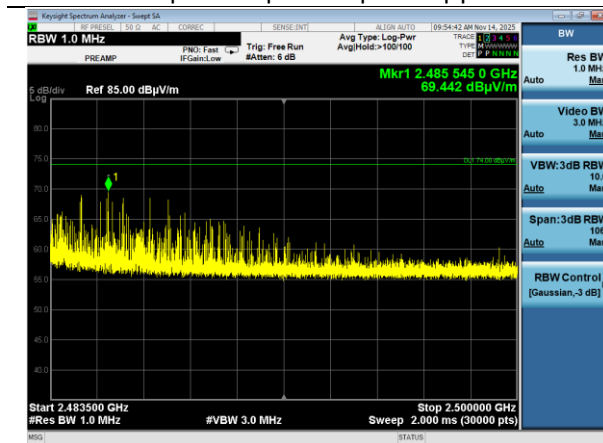
RU52 | MCS0 | Ch 11 | Average | pwr 14



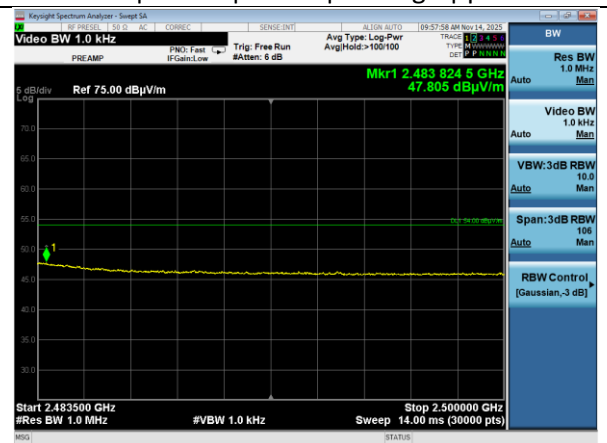
RU52 | MCS7 | Ch 11 | Peak | pwr 14



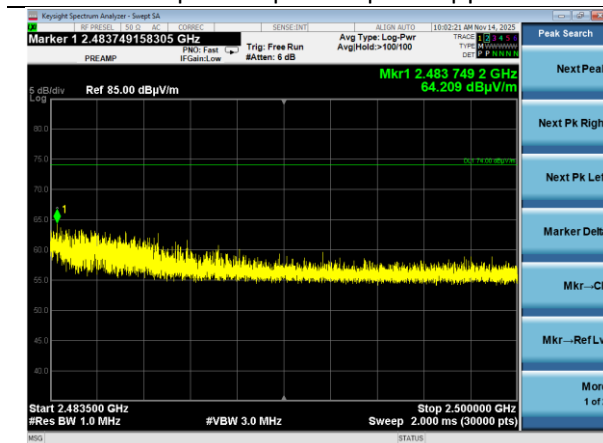
RU52 | MCS7 | Ch 11 | Average | pwr 14



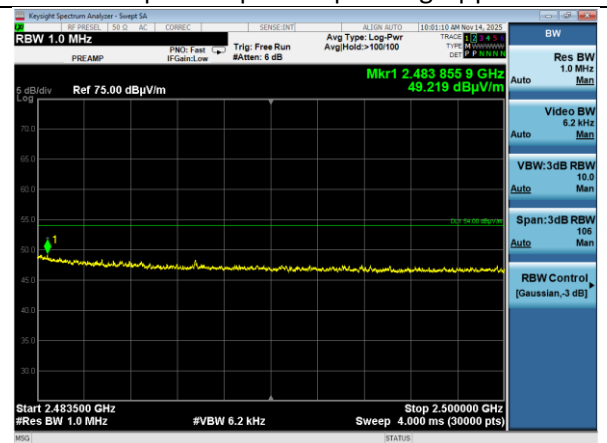
RU106 | MCS0 | Ch 11 | Peak | pwr 18



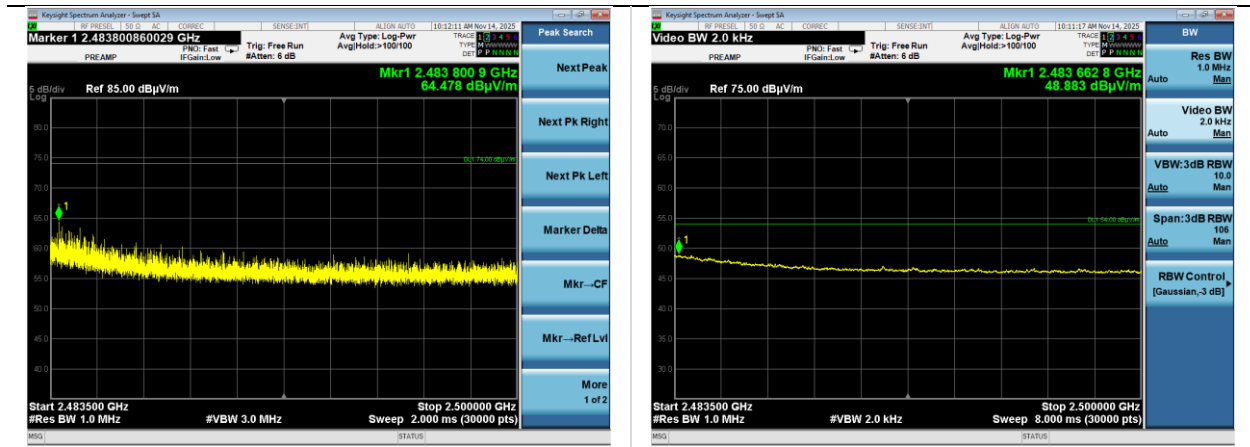
RU106 | MCS0 | Ch 11 | Average | pwr 18



RU106 | MCS7 | Ch 11 | Peak | pwr 18

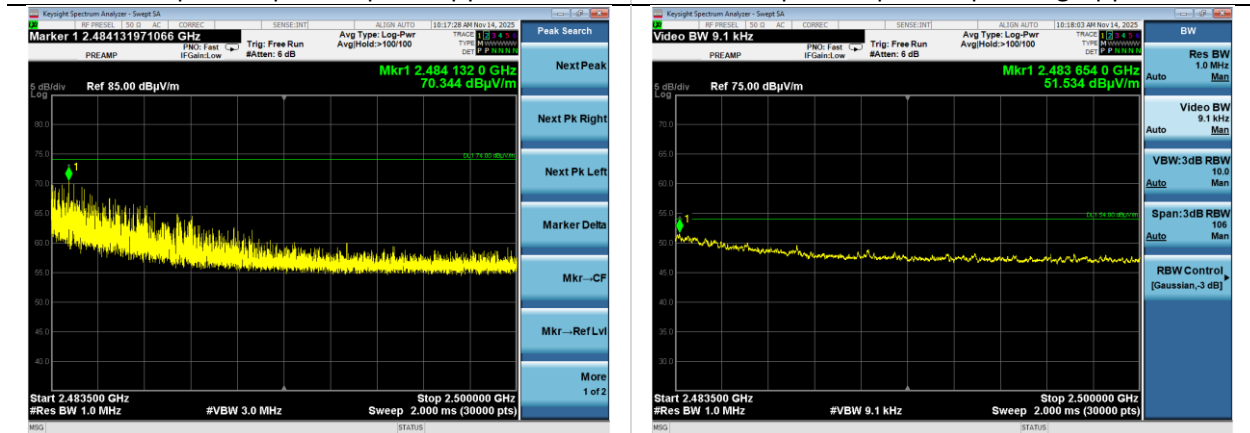


RU106 | MCS7 | Ch 11 | Average | pwr 18



RU242 | MCS0 | Ch 11 | Peak | pwr 21

RU242 | MCS0 | Ch 11 | Average | pwr 21



RU242 | MCS7 | Ch 11 | Peak | pwr 21

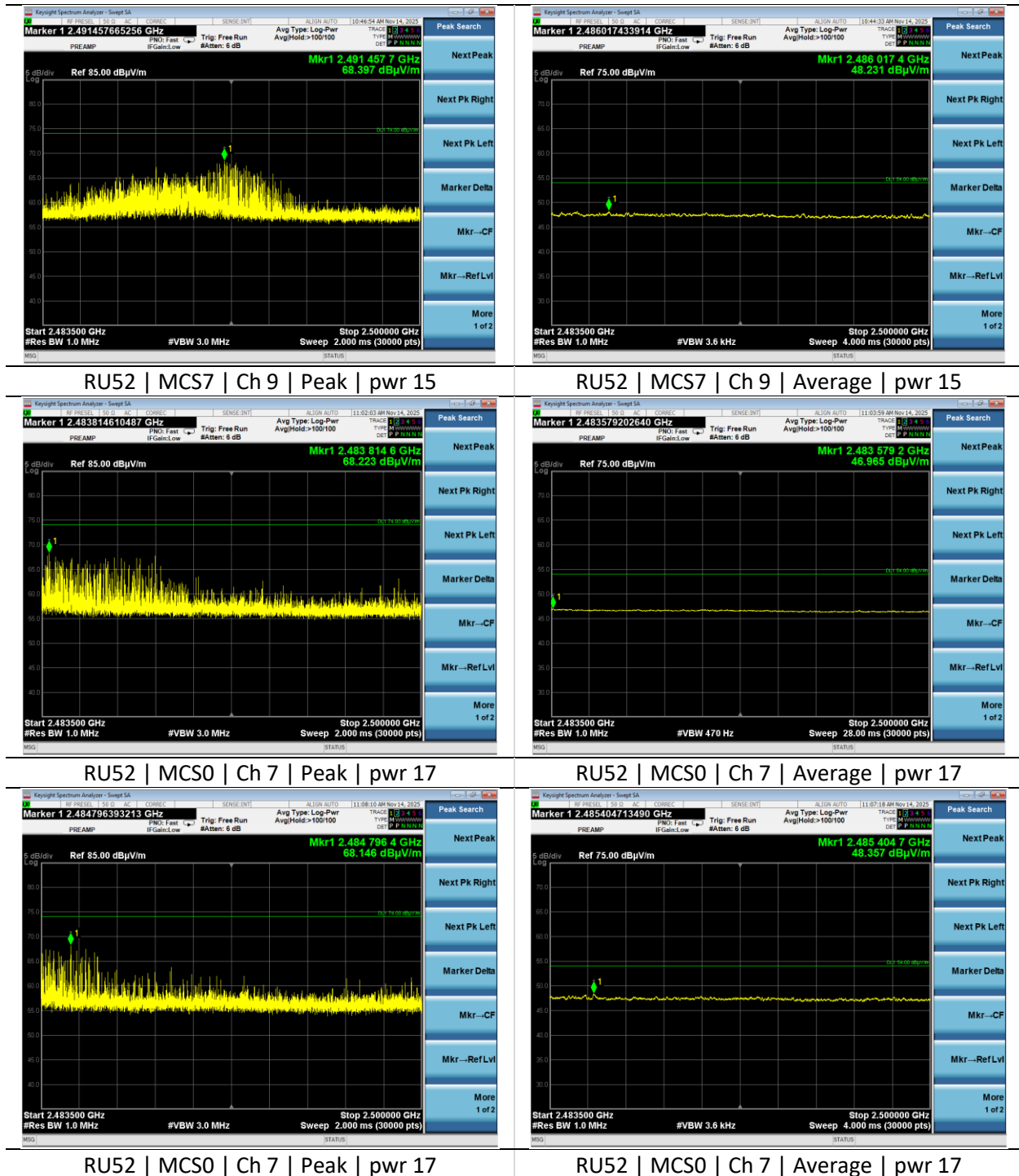
RU242 | MCS7 | Ch 11 | Average | pwr 21



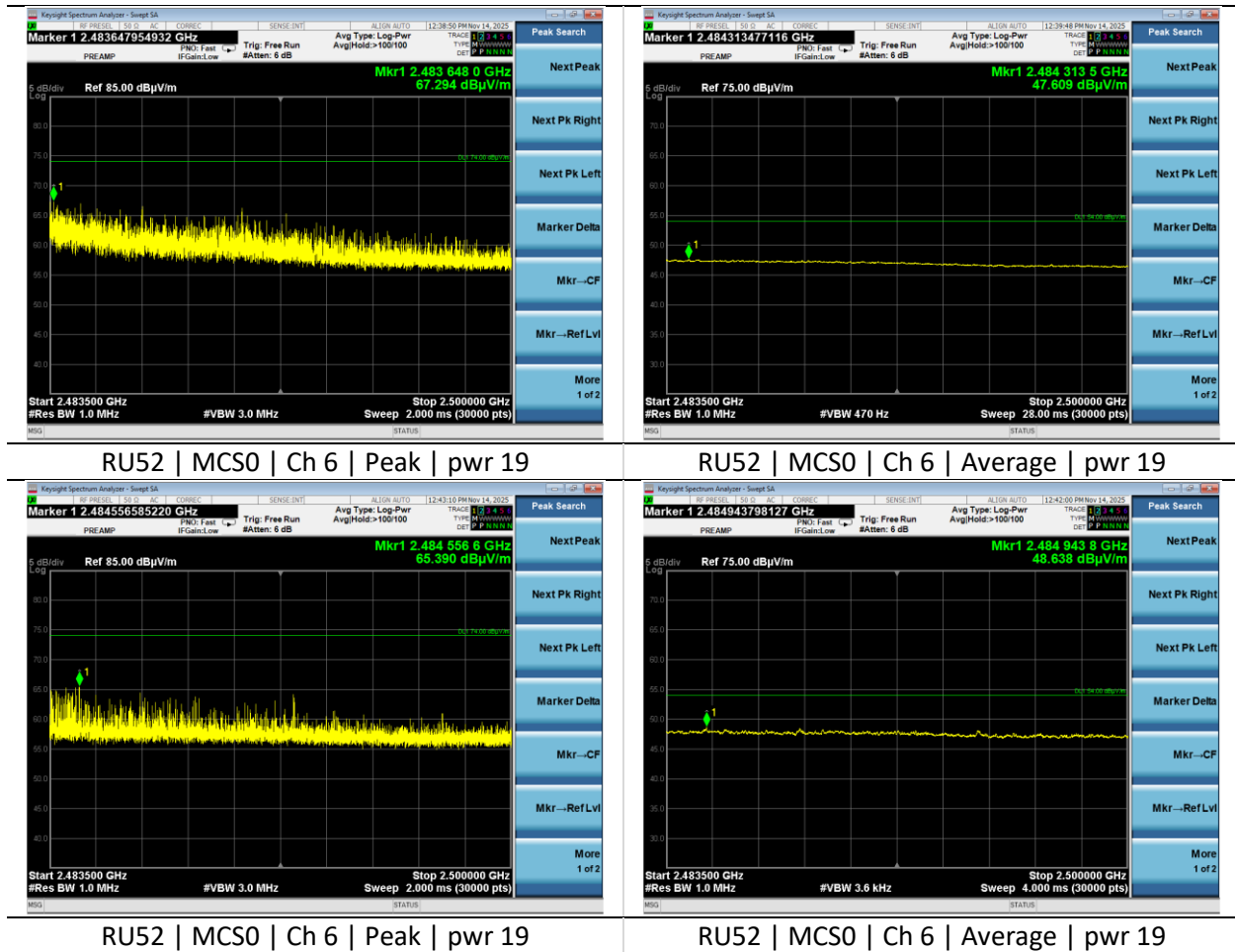
RU52 | MCS0 | Ch 9 | Peak | pwr 15

RU52 | MCS0 | Ch 9 | Average | pwr 15

Company: Ezurio	Page 59 of 62	Name: SONA TI351
Report: TR3818-2.4G-RU		Model: SONA TI351
Job: C-3818		Serial: 00008   00009







## 6 REVISION HISTORY

Version	Date	Notes	Person
0	11/20/2025	Initial Draft	Dylan Rosenfeldt
1	12/10/2025	Final Draft	Dylan Rosenfeldt

**END OF REPORT**