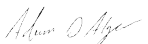


TR3812 B - LoRa DTS

Equipment Under Test:	Sentrius™ RS262 Sensor
Requirement(s):	eCFR 47 Part 15.247 RSS-247
Test Date(s):	01/14/2025-04/14/2025
Prepared for:	Ezurio Attn: Brian Petted W66 N220 Commerce Ct. Cedarburg, WI 53012

Report Issued by: Adam Alger, Sr. Manager, EMC Laboratory	
Signature: 	Date: 04/15/2025
Report Reviewed by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 04/15/2025
Report Constructed by: Adam Alger, Sr. Manager, EMC Laboratory	
Signature: 	Date: 04/13/2025

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

Company: Ezurio	Page 1 of 34	Name: Sentrius™ RS262 Sensor
Report: TR3812 B - LoRa DTS		Model: RS262-EXT, RS262-INT
Job: C-3812		Serial: Eng. Sample

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
3 References	7
4 Uncertainty Summary	8
5 Test Data	9
5.1 Antenna Port Conducted Emissions	9
5.2 Radiated Emissions	20
6 Revision History	34

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 3 of 34	Name: Sentrius™ RS262 Sensor
Report: TR3812 B - LoRa DTS		Model: RS262-EXT, RS262-INT
Job: C-3812		Serial: Eng. Sample

1 TEST REPORT SUMMARY

During **01/14/2025-04/14/2025** the Equipment Under Test (EUT), **Sentrius™ RS262 Sensor**, as provided by **Ezurio** was tested to the following requirements:

FCC 15.247 | RSS-247 – DTS LoRa

Requirements	Description	Method	Compliant
15.247(a)(2) RSS-247 Clause 5.2 (a)	6dB and 99% Occupied Bandwidth	ANSI C63.10	Yes
15.247(b)(3) RSS-247 Clause 5.4 (d)	RF Output Power	ANSI C63.10	Yes
15.247(e) RSS-247 Clause 5.2 (b)	Power Spectral Density	ANSI C63.10	Yes
15.247(d) 15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 / 8.10	Out-of-band Emissions 30-25000 MHz	ANSI C63.10	Yes
2.1055(d) RSS-GEN 6.11	Frequency Stability	ANSI C63.10	Reported
15.31 (k) RSS-247	Simultaneous Transmission	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 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

2 CLIENT INFORMATION

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

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	Sentrius™ RS262 Sensor
Model Number	RS262-EXT, RS262-INT
Serial Number	Eng Sample
FCC ID	SQG-RS262
IC ID	3147A-RS262

2.2 Product Description

The RS262 is a device with LoRa and Bluetooth Low Energy v5.4. Two versions; external sensor temperature / humidity version and internal temperature / humidity sensor version.

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

Battery 3.0 VDC nominal, 3.2 VDC maximum

Device programmed for test modes using Simplicity Studio v5, Bluetooth NCP Commander, RF Regulatory Test and TeraTerm serial AT commands for LoRa. BLE and LoRa can simultaneously transmit.

2.6 Antenna Information

Manufacturer	Frequency Range (MHz)	Dimension (mm)	Type	Peak Gain (dBi)
Ezurio	902-928	85.0 x 42.0 x 1.5	PCBA Monopole Antenna (Loaded Stub "L")	+0.9
Ezurio	2402-2480	85.0 x 42.0 x 1.5	PCB Trace Antenna	+1.8

2.7 Test Channels

Channel	Frequency (MHz)	Power Index	Channel Bandwidth (kHz)	Spreading Factor	Data Rate (bits/sec)
64	903.0	22	500	SF 8	12500
67	907.8	22	500	SF 8	12500
71	914.2	22	500	SF 8	12500

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
FCC eCFR 47 Part 15	-	2025	-	-
ANSI C63.10	-	2020	-	-
RSS-247	3	2023	-	-
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

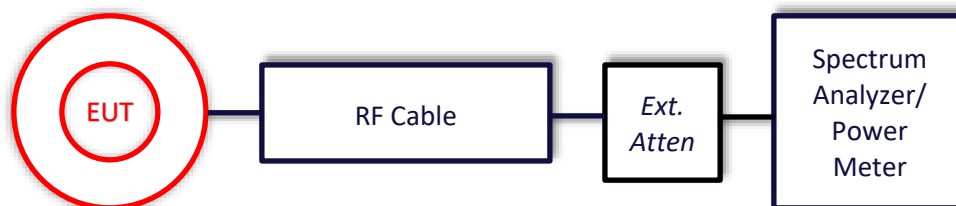
Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9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

5 TEST DATA

5.1 Antenna Port Conducted Emissions

Description of Measurement	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. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	1/28/2025	1/28/2026	Active Verification
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/9/2024	4/9/2025	Active Calibration
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/10/2024	4/10/2025	Active Calibration

5.1.1 6dB and 99% Occupied Bandwidth

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.3°C	R.H. %	27.80%
Test Date	2/25/2025	Location	RF Bench
Requirement	15.247 (a)(2) RSS-247 Clause 5.2 (a)	Method	ANSI C63.10 11.8 / 6.9

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

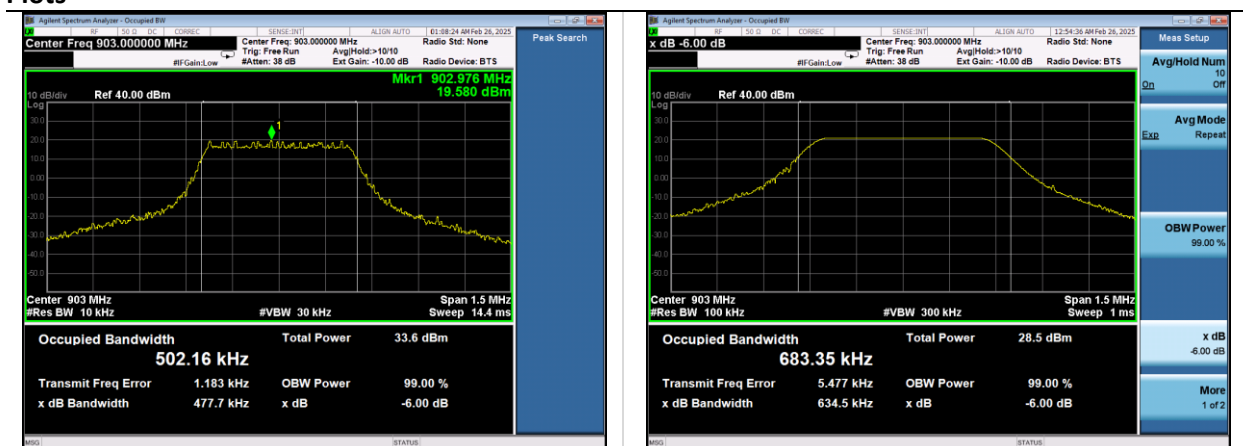
Test Parameters

Frequency	903.0-914.2 MHz	Setup	Antenna Port
RBW	99% OBW – 10 kHz 6dB DTS - 100 kHz	VBW	99% OBW – 30 kHz 6dB DTS - 300 kHz
Detector(s)	Peak	Settings	Max Hold

Table

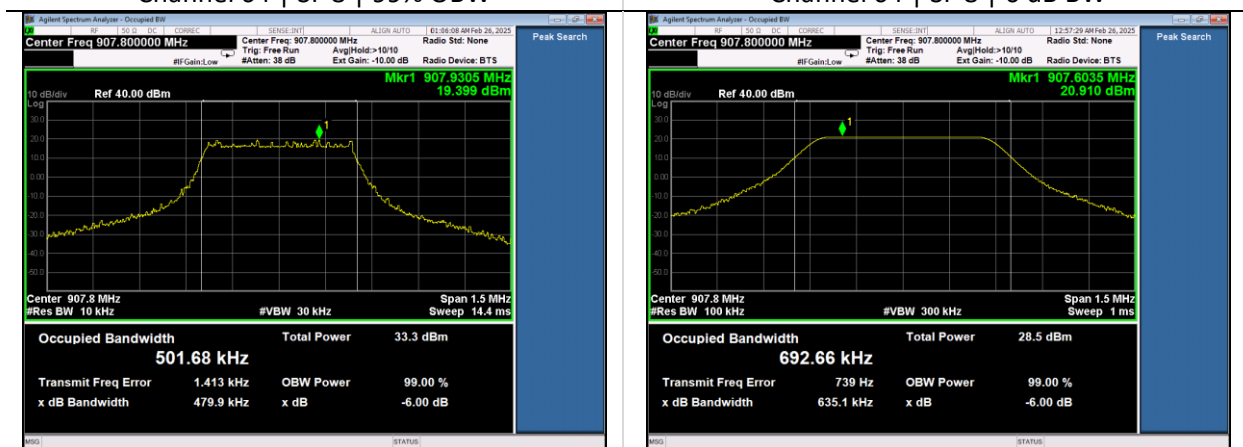
Channel	Freq (MHz)	Mode	99% OBW (kHz)	6dB DTS BW (kHz)	DTS Limit (kHz)	Margin (kHz)
64	903.0	SF8	502	635	500	135
67	907.8	SF8	502	635	500	135
71	914.2	SF8	506	631	500	131

Plots



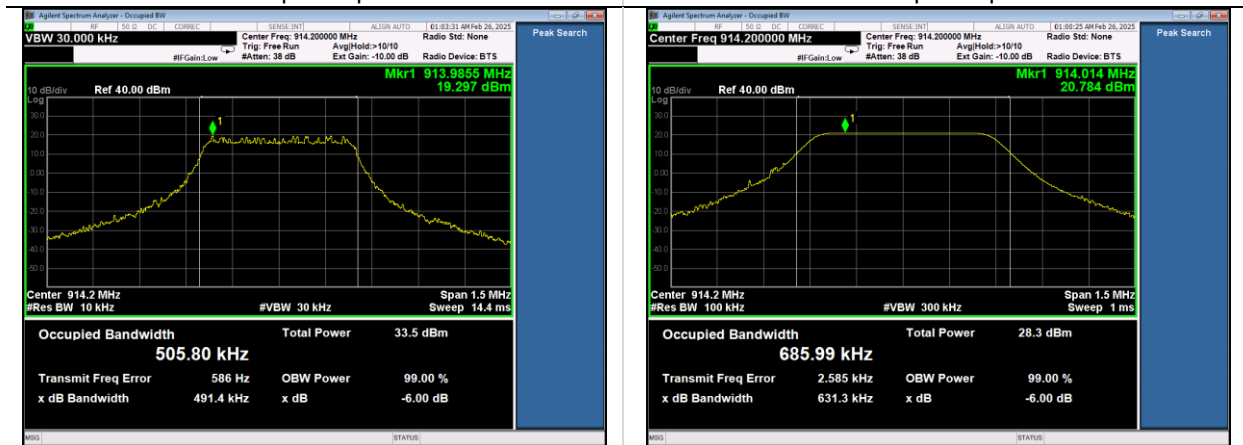
Channel 64 | SF 8 | 99% OBW

Channel 64 | SF 8 | 6 dB BW



Channel 67 | SF 8 | 99% OBW

Channel 67 | SF 8 | 6 dB BW



Channel 71 | SF 8 | 99% OBW

Channel 71 | SF 8 | 6 dB BW

5.1.2 RF Output Power

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.6°C	R.H. %	25.3%
Test Date	4/1/2025	Location	RF Bench
Requirement	15.247 (b)(3) RSS-247 Clause 5.4 (d)	Method	ANSI C63.10 11.9.2.2.4

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

Test Parameters

Frequency	903.0-914.2 MHz	Setup	Antenna Port
RBW	10 kHz	VBW	30 kHz
Detector(s)	RMS Average	Settings	Trace Average Span: 1 MHz

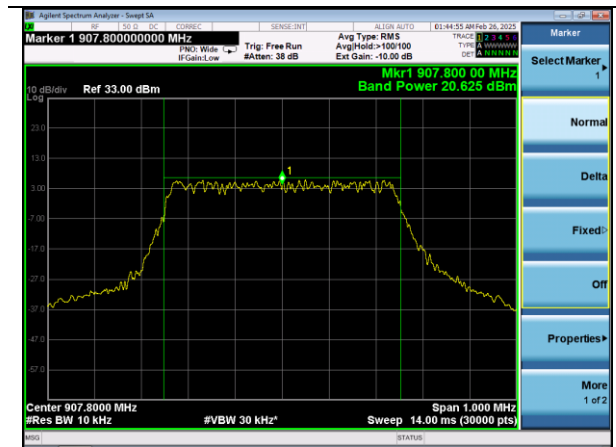
Table

Channel	Frequency (MHz)	Mode	Avg. Output Power (dBm)	DC Correction (dB)	Corrected Measurement (dBm)	Limit (dBm)	Margin (dB)	Power Setting
64	903.0	SF 8	20.7	0.2	20.9	30.0	9.1	22
67	907.8	SF 8	20.6	0.2	20.8	30.0	9.2	22
71	914.2	SF 8	20.5	0.2	20.7	30.0	9.3	22

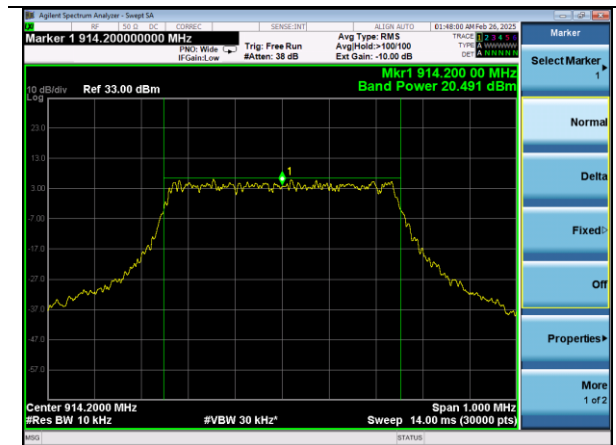
Plots



Channel 64



Channel 67



Channel 71

Company: Ezurio	Page 13 of 34	Name: Sentrius™ RS262 Sensor
Report: TR3812 B - LoRa DTS		Model: RS262-EXT, RS262-INT
Job: C-3812		Serial: Eng. Sample

5.1.3 Power Spectral Density

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.4°C	R.H. %	28.9%
Test Date	2/25/2025	Location	RF Bench
Requirement	15.247 (e) RSS-247 Clause 5.2 (b)	Method	ANSI C63.10 11.10.5

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

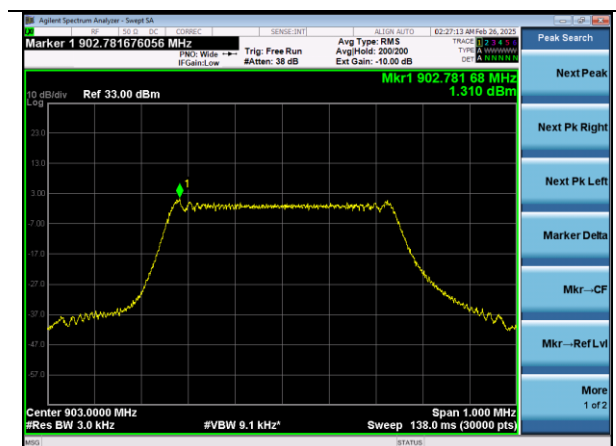
Test Parameters

Frequency	903.0-914.2 MHz	Detector(s)	RMS, Trace Average
RBW	3 kHz	VBW	9.1 kHz
Notes	The same method of determining the conducted output power shall be used to determine the power spectral density		

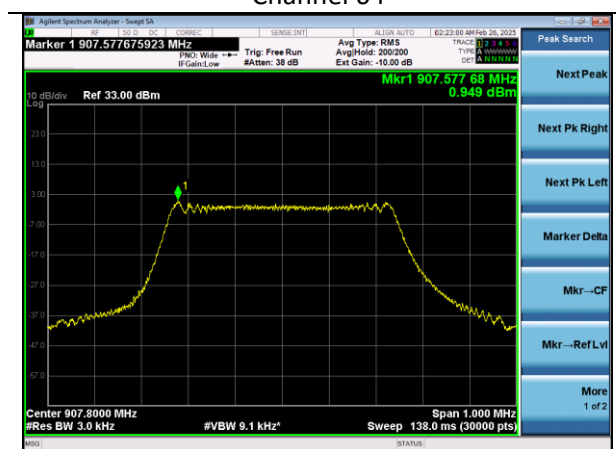
Table

Channel	Frequency (MHz)	Mode	Avg. PSD (dBm)	DC Correction (dB)	Corrected Measurement (dBm)	Limit (dBm/3kHz)	Margin (dB)	Power Setting
64	903.0	SF 8	1.3	0.2	1.5	8.0	6.5	22
67	907.8	SF 8	0.9	0.2	1.1	8.0	6.9	22
71	914.2	SF 8	1.2	0.2	1.4	8.0	6.6	22

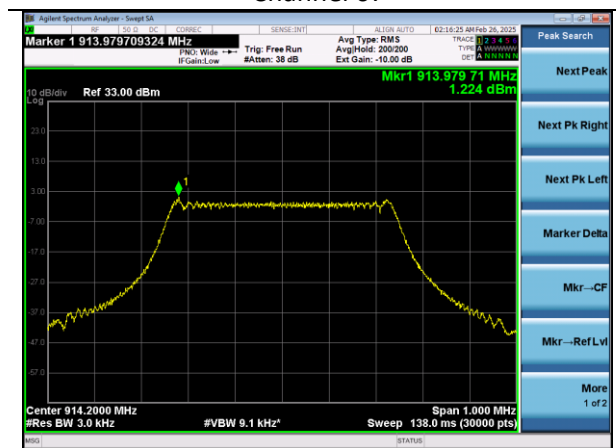
Plots



Channel 64



Channel 67



Channel 71

Company: Ezurio	Page 15 of 34	Name: Sentrius™ RS262 Sensor
Report: TR3812 B - LoRa DTS		Model: RS262-EXT, RS262-INT
Job: C-3812		Serial: Eng. Sample

5.1.4 Spurious Emissions

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	21.2°C	R.H. %	25.8%
Test Date	4/1/2025	Location	RF Conducted Bench
Requirement	15.247(d) RSS-247 Clause 5.5	Method	ANSI C63.10 11.11

Limits: 30 dBc

Reference Level (Worst Case PSD)

Channel 64 20.8 dBm/100 kHz

20.8 dBm-30 dB = -9.2 dBm limit

Test Parameters

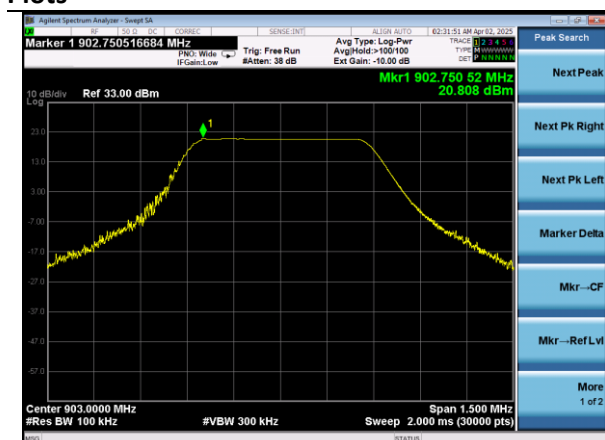
Frequency	30-25000 MHz	Setup	Antenna Port
RBW	100 kHz	VBW	300 kHz
Detector(s)	Peak		

Table

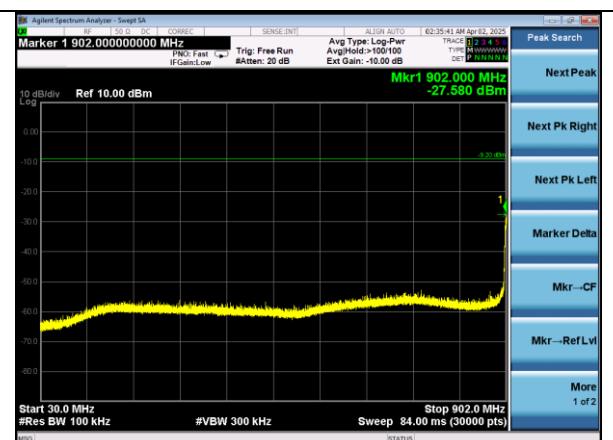
Channel	Mode	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Margin (dB)
64	SF 8	902.0	-26.8	-9.2	17.6
64	SF 8	1805.6	-23.3	-9.2	14.1
67	SF 8	1815.1	-23.5	-9.2	14.3
71	SF 8	1828.0	-24.2	-9.2	15.0

Note: All other emissions at least 20 dB below limit

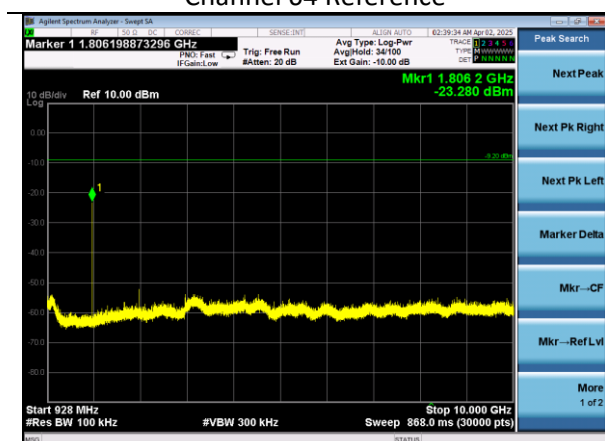
Plots



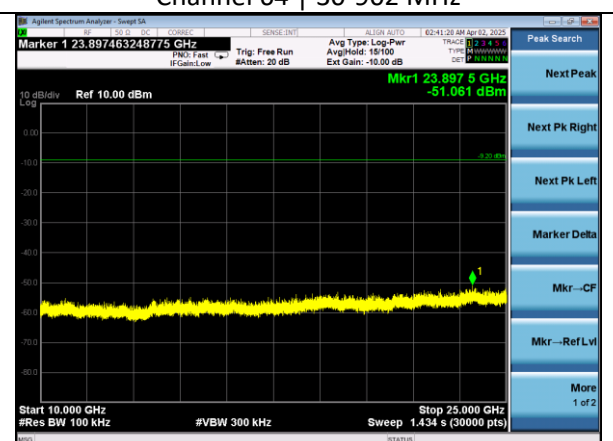
Channel 64 Reference



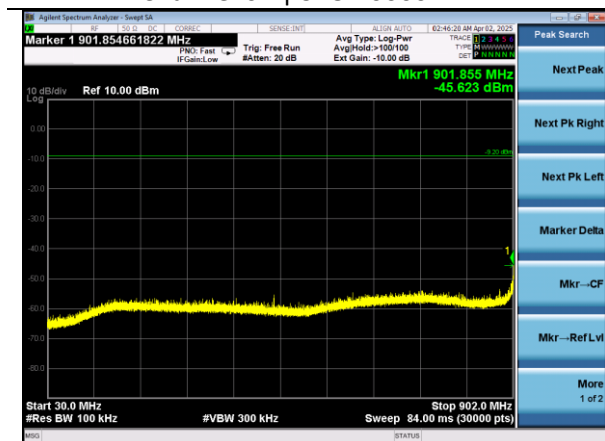
Channel 64 | 30-902 MHz



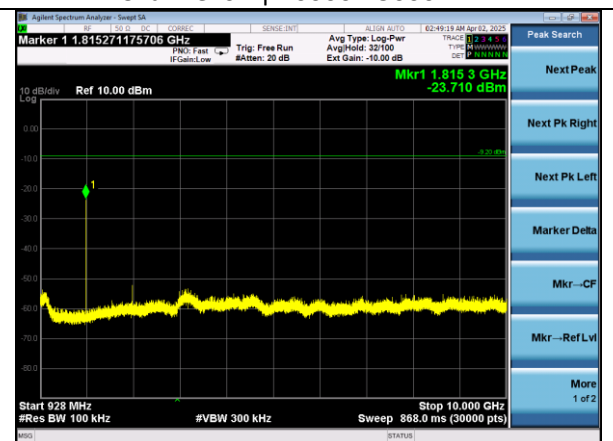
Channel 64 | 928-10000 MHz



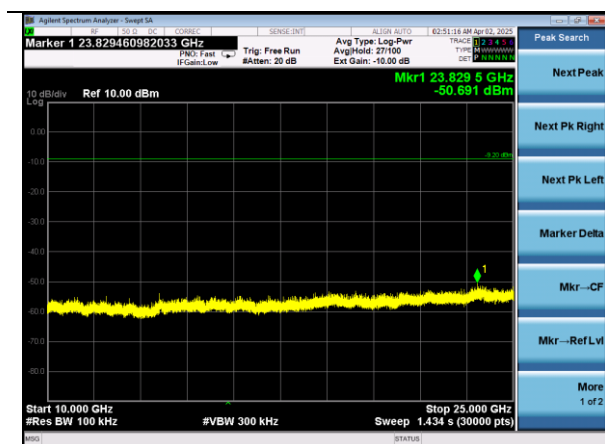
Channel 64 | 10000-25000 MHz



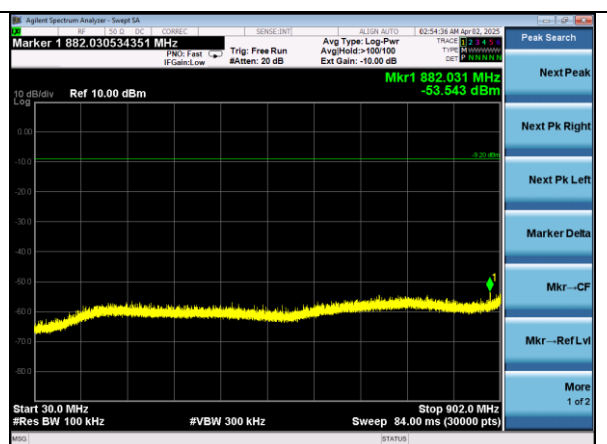
Channel 67 | 30-902 MHz



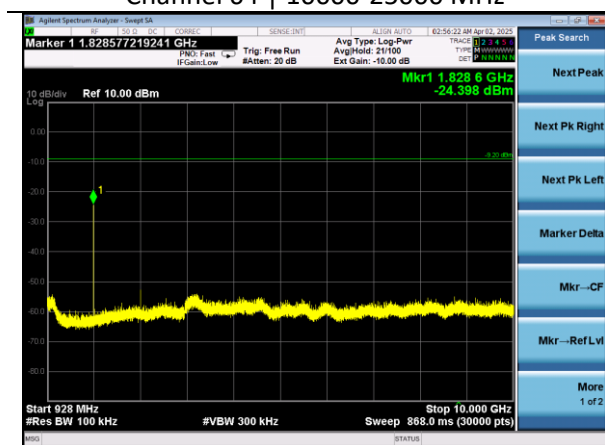
Channel 67 | 928-10000 MHz



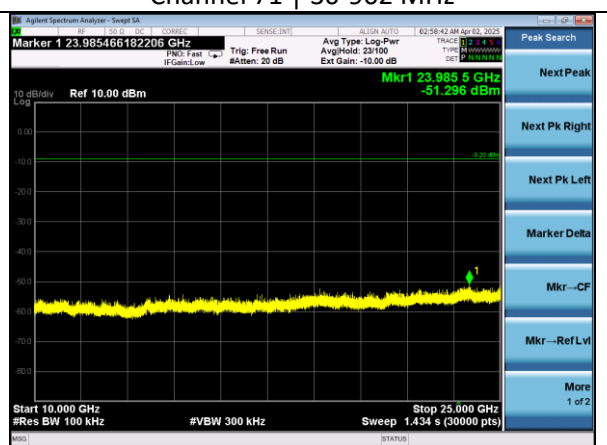
Channel 64 | 10000-25000 MHz



Channel 71 | 30-902 MHz



Channel 71 | 928-10000 MHz



Channel 71 | 10000-25000 MHz

5.1.5 Frequency Stability

Operator	Dylan Rosenfeldt	QA	Adam Alger
Temperature	21.6°C	R.H. %	29.20%
Test Date	2/27/2025	Location	RF Bench
Requirement	2.1055(d) RSS-GEN Clause 6.11	Method	ANSI C63.10 6.8.2

Test Parameters

Frequency	903.0-914.2 MHz	Voltage	3.2 VDC, 3.0 VDC, and 2.6VDC
Detector(s)	Peak	Settings	Max Hold

Table

Frequency (Hz)	Voltage	Channel
902999960	3.2	64
902999952	3.0	64
902999934	2.6	64
907799962	3.2	67
907799949	3.0	67
907799928	2.6	67
914199954	3.2	71
914199948	3.0	71
914199929	2.6	71

5.2 Radiated Emissions

Description of Measurement	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. 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. 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.
Example Calculations	Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m) Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m) 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

Block Diagram



Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960007	Antenna - Double Ridge Horn	EMCO	3115	9311-4138	11/19/2024	11/19/2025	Active Calibration
AA 960150	Antenna - Biconical	ETS Lindgren	3110B	0003-3346	12/9/2024	12/9/2025	Active Calibration
AA 960154	Filter - High Pass 2.4 GHz	KWM	HPF-L-14186	7272-02	4/10/2024	4/10/2025	Calibration
AA 960158	Antenna - Double Ridge Horn	ETS Lindgren	3117	109300	2/21/2025	2/21/2026	Active Calibration
AA 960163	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	500	12/11/2024	12/11/2025	Active Calibration
AA 960194	Antenna - Biconical	A.H. Systems, Inc.	SAS-540	780	12/9/2024	12/9/2025	Active Calibration
AA 960195	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	557	11/22/2024	11/23/2025	Active Calibration
AA 960209	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	11/19/2024	11/19/2025	Active Calibration
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/9/2024	4/9/2025	Active Calibration
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/10/2024	4/10/2025	Active Calibration
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/10/2024	4/10/2025	Active Calibration
LSC-300	Cable	Chamber 3 Emissions	-	-	1/24/2025	1/24/2026	Active Verification
LSC-500	Cable	Chamber 5 Emissions	-	-	1/27/2025	1/27/2026	Active Verification

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

5.2.1 Spurious Radiated Emissions in the Restricted Bands – External Sensor

Operator	Jonathan Dilley	QA	Adam Alger
Temperature	22-25°C	R.H. %	11-35%
Test Date	1/22-4/3 2025	Location	Chamber 3 Chamber 5
Requirement	15.247 (d) 15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Method	ANSI C63.10

Test Parameters

Frequency	30-25000 MHz	Distance	3 m
Detector(s)	Peak Trace Quasi-Peak, Peak	Table height	<1000 MHz – 80 cm >1000MHz – 150 cm
RBW	<1000 MHz – 120 kHz >1000 MHz – 1 MHz	VBW	<1000 MHz – 1.2 MHz >1000 MHz – 3 MHz (10 Hz Avg)

Radiated Spurious – 30-25000 MHz

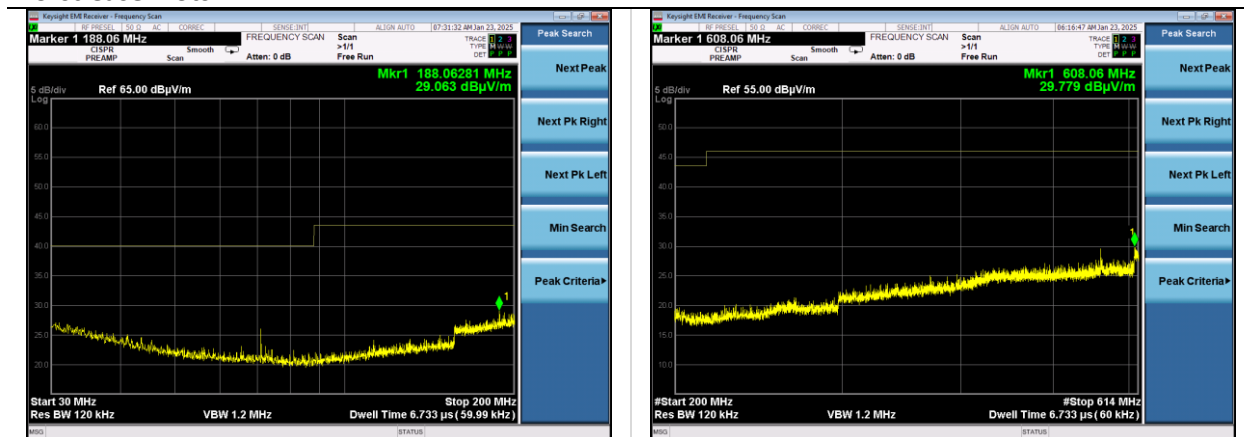
Frequency (MHz)	EUT Orientation	Antenna Polarity	Height (cm)	Azimuth (degree)	Quasi-Peak Reading (dBμV/m)	Quasi-Peak Limit (dBμV/m)	Quasi-Peak Margin (dB)
608.4	X	Horizontal	100	0	23.9	46.0	22.1
606.2	X	Vertical	100	0	23.9	46.0	22.1
998.8	X	Vertical	100	337	28.7	54.0	25.4
989.7	X	Horizontal	100	281	31.6	54.0	22.4
189.8	X	Horizontal	100	0	21.8	43.5	21.7
107.8	X	Vertical	100	0	19.3	43.5	24.2

Note: No Emissions present from EUT. Noise floor recorded.

Frequency (MHz)	EUT Orientation	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Peak Reading (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	Channel
3612.1	X	Vertical	168	210	43.7	54.0	10.3	51.6	74.0	22.4	64
3612.0	X	Horizontal	166	168	43.7	54.0	10.3	51.5	74.0	22.5	64
3612.1	Y	Horizontal	112	223	46.3	54.0	7.7	53.8	74.0	20.2	64
3612.2	Y	Vertical	111	123	43.2	54.0	10.8	51.8	74.0	22.2	64
3612.0	Z	Vertical	219	340	45.9	54.0	8.1	53.4	74.0	20.6	64
3612.1	Z	Horizontal	105	131	43.9	54.0	10.1	52.1	74.0	21.9	64
3631.2	Y	Horizontal	100	134	41.9	54.0	12.1	51.5	74.0	22.5	67
3656.9	Y	Horizontal	100	135	41.2	54.0	12.8	50.3	74.0	23.7	71
10837.3	X	Vertical	250	163	37.7	54.0	16.3	51.6	74.0	22.4	64
10837.2	X	Horizontal	250	182	34.0	54.0	20.0	47.5	74.0	26.5	64
10837.0	Y	Horizontal	170	331	35.5	54.0	18.5	48.6	74.0	25.4	64
10836.8	Y	Vertical	208	62	36.2	54.0	17.8	50.3	74.0	23.7	64
10837.3	Z	Vertical	172	277	34.5	54.0	19.5	48.2	74.0	25.8	64
10837.4	Z	Horizontal	234	284	37.7	54.0	16.3	51.6	74.0	22.4	64
10893.7	Z	Horizontal	223	278	37.6	54.0	16.4	51.5	74.0	22.5	67
10970.7	Z	Horizontal	220	281	36.3	54.0	17.7	49.6	74.0	24.4	71

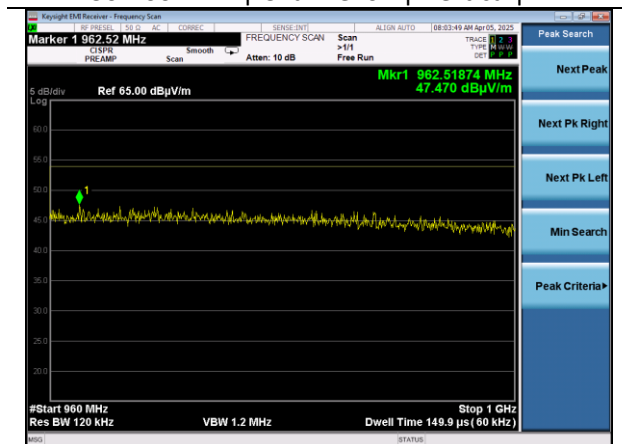
Note: No other emissions found in restricted bands. No new frequencies or amplitude differences found in simultaneous transmit mode.

Worst Case Plots



30-200 MHz | Channel 64 | Vertical | X

200-614 MHz | Channel 64 | Vertical | X



960-1000 MHz | Channel 71 | Horizontal | Y

Company: Ezurio

Report: TR3812 B - LoRa DTS

Job: C-3812

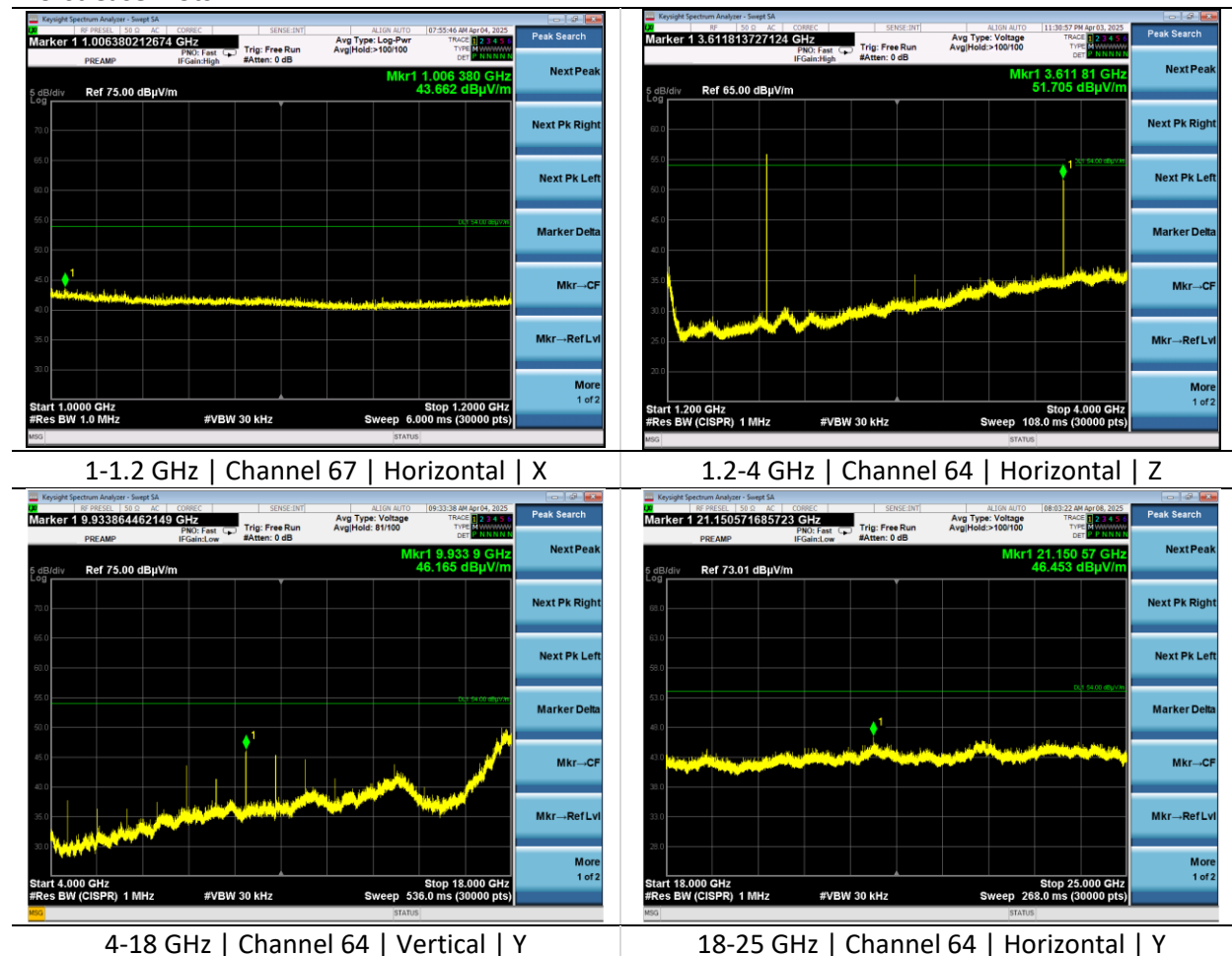
Page 24 of 34

Name: Sentrius™ RS262 Sensor

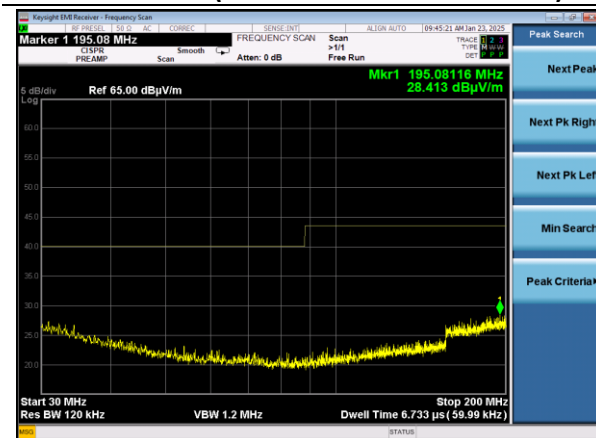
Model: RS262-EXT, RS262-INT

Serial: Eng. Sample

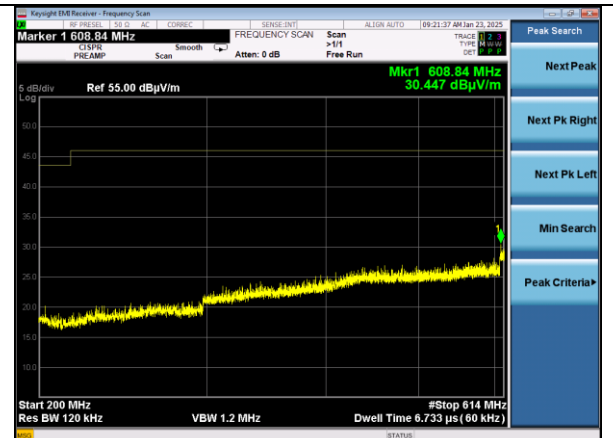
Worst Case Plots



Worst Case Plots (Simultaneous Transmission)



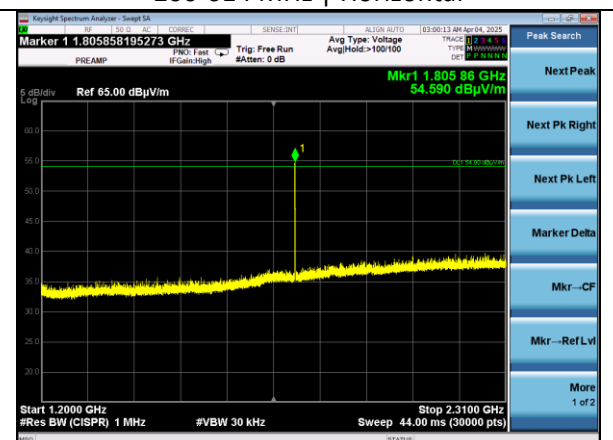
30-200 MHz | Horizontal



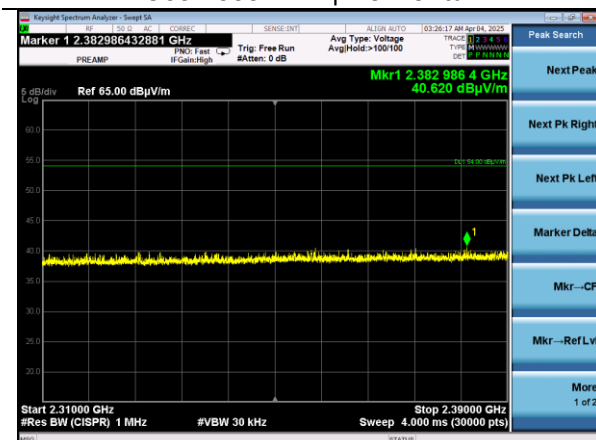
200-614 MHz | Horizontal



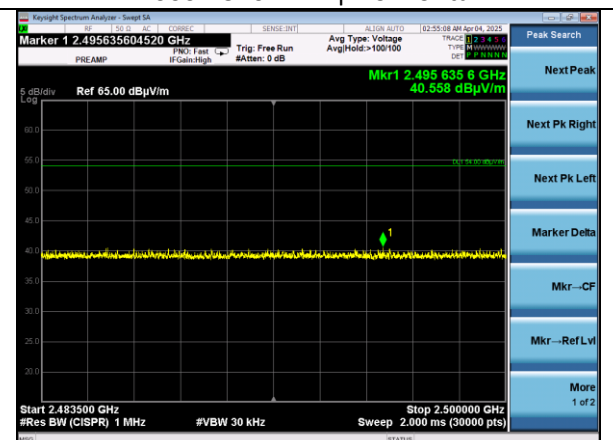
960-1000 MHz | Horizontal



1000-2310 MHz | Horizontal

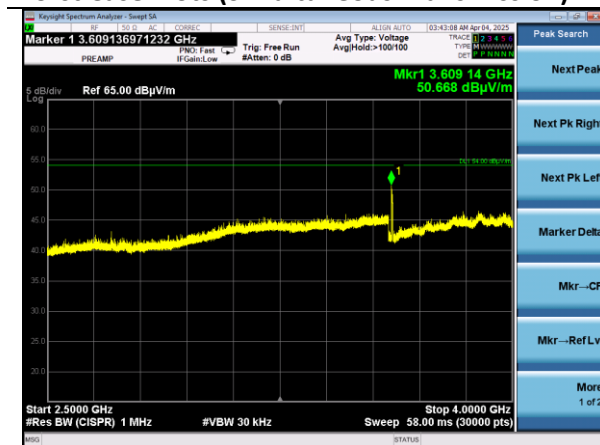


2310-2390 MHz | Horizontal

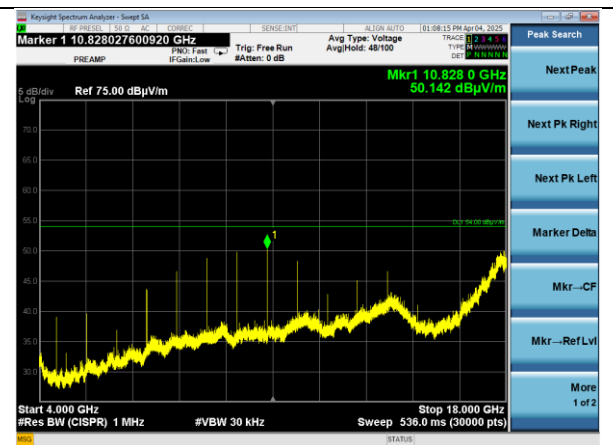


2483.5-2500 MHz | Horizontal

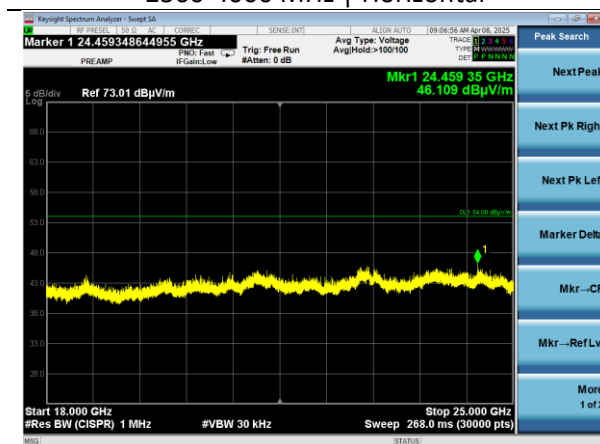
Worst Case Plots (Simultaneous Transmission)



2500-4000 MHz | Horizontal



4000-18000 MHz | Horizontal



18000-25000 MHz | Horizontal

5.2.2 Spurious Radiated Emissions in the Restricted Bands – Internal Sensor

Operator	Jonathan Dilley	QA	Adam Alger
Temperature	22-25°C	R.H. %	11-35%
Test Date	1/22-4/3 2025	Location	Chamber 3 Chamber 5
Requirement	15.247 (d) 15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Method	ANSI C63.10

Test Parameters

Frequency	30-25000 MHz	Distance	3 m
Detector(s)	Quasi-Peak, Peak	Table height	<1000 MHz – 80 cm >1000MHz – 150 cm
RBW	<1000 MHz – 120 kHz >1000 MHz – 1 MHz	VBW	<1000 MHz – 1.2 MHz >1000 MHz – 3 MHz (10 Hz Avg)

Radiated Spurious – 30-25000 MHz

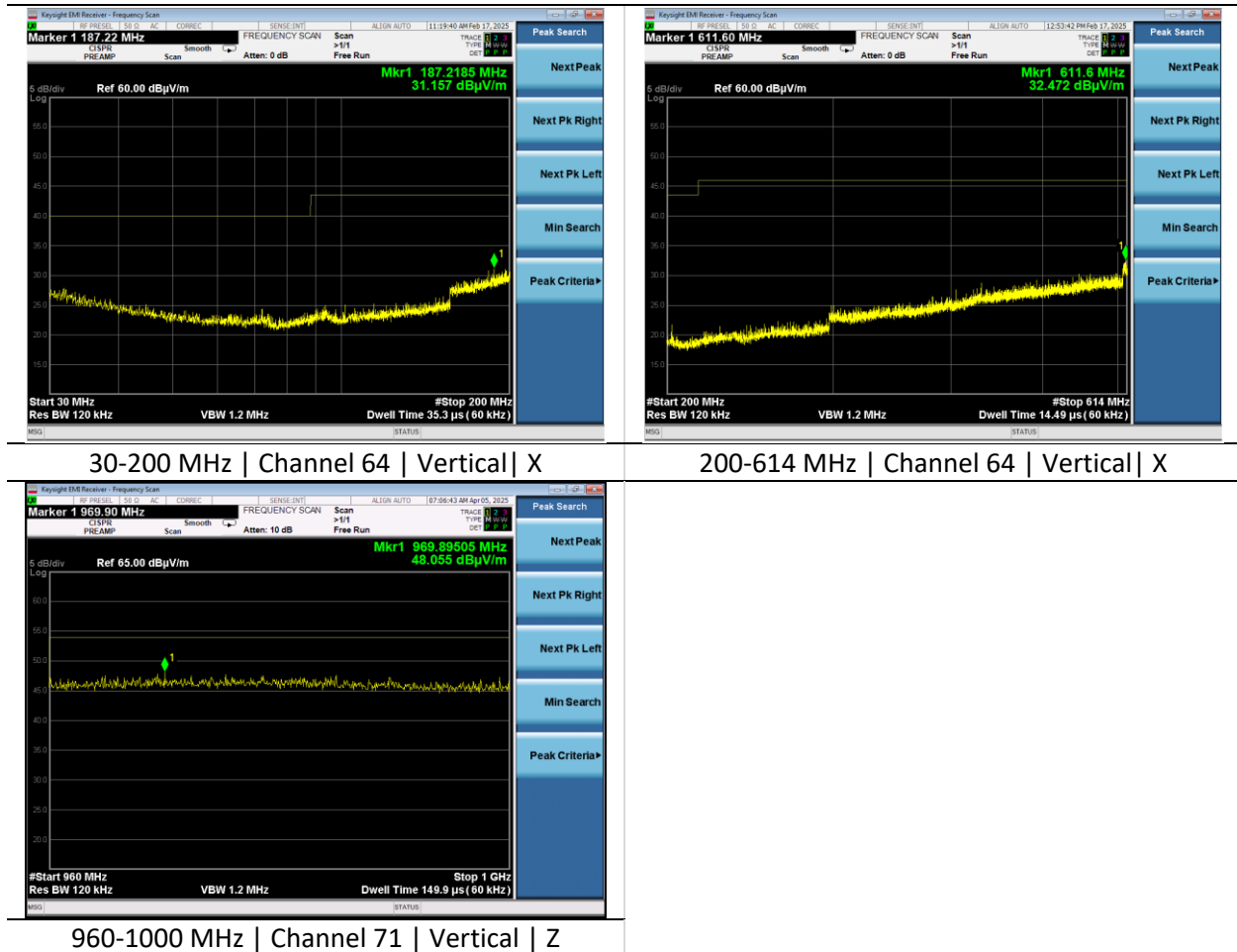
Frequency (MHz)	Antenna Polarity	Height (cm)	Azimuth (degree)	Quasi-Peak Reading (dBµV/m)	Quasi-Peak Limit (dBµV/m)	Quasi-Peak Margin (dB)
602.6	Horizontal	100	0	24.3	46.0	21.8
212.7	Horizontal	100	0	14.1	43.5	29.4
609.7	Vertical	100	0	26.6	46.0	19.4
968.3	Horizontal	168	201	29.6	54.0	24.4
971.3	Vertical	101	123	38.7	54.0	15.3
31.3	Vertical	100	0	25.2	40.0	14.8

Note: No Emissions present from EUT. Noise floor recorded.

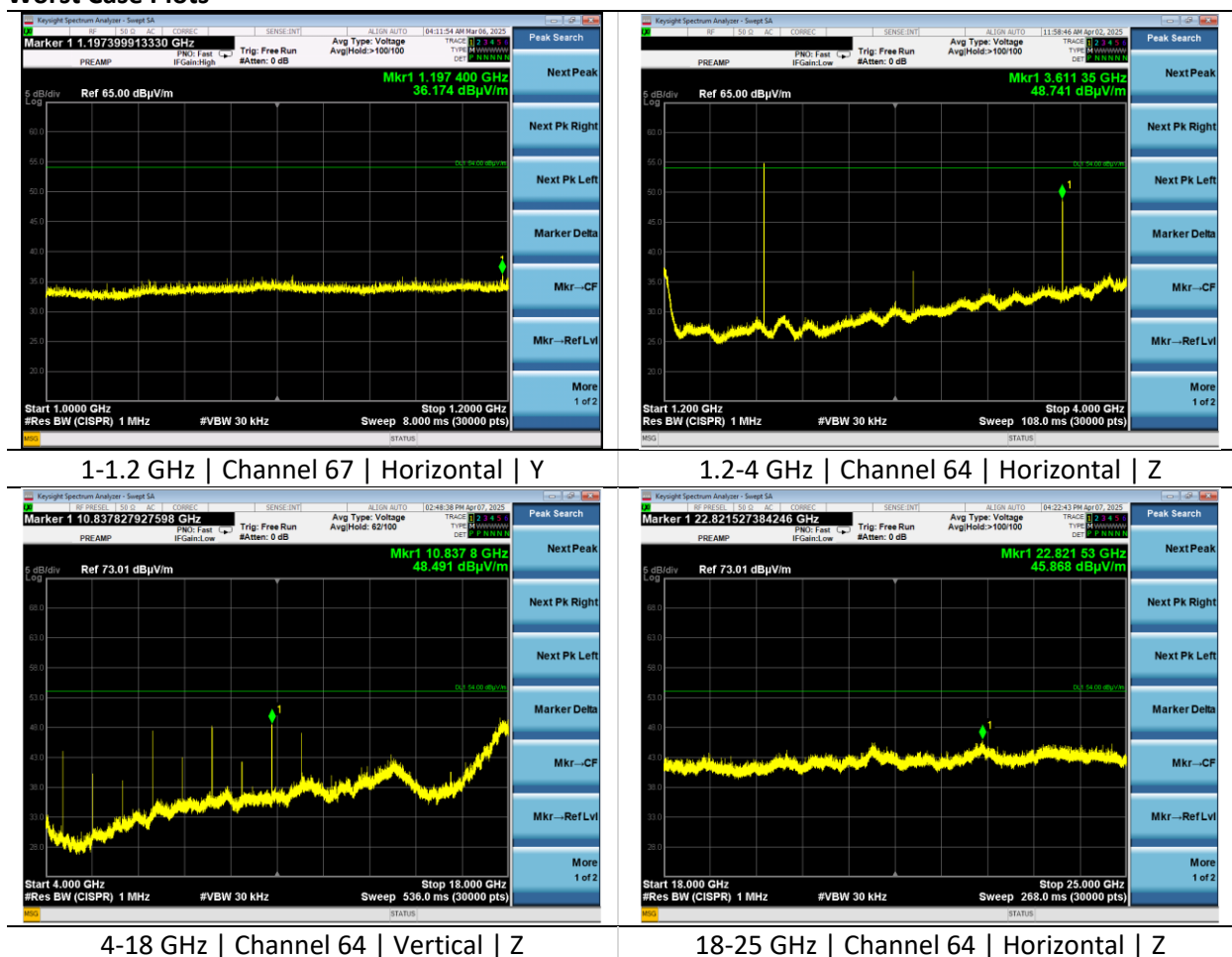
Frequency (MHz)	EUT Orientation	Antenna Polarity	Height (cm)	Azimuth (degree)	Average Reading (dBμV/m)	Average Limit (dBμV/m)	Average Margin (dB)	Peak Reading (dBμV/m)	Peak Limit (dBμV/m)	Peak Margin (dB)	Channel
3612.2	Y	Vertical	250	228	41.3	54.0	12.7	49.0	74.0	25.0	64
3612.3	Y	Horizontal	100	141	39.5	54.0	14.5	47.9	74.0	26.1	64
3612.1	Z	Horizontal	204	203	43.8	54.0	10.2	51.9	74.0	22.1	64
3612.0	Z	Vertical	110	110	39.4	54.0	14.6	48.0	74.0	26.0	64
3612.0	X	Vertical	233	0	42.7	54.0	11.3	50.3	74.0	23.7	64
3612.0	X	Horizontal	155	217	40.6	54.0	13.4	48.6	74.0	25.4	64
3631.2	Z	Horizontal	100	350	41.6	54.0	12.4	52.0	74.0	22.0	67
3656.8	Z	Horizontal	211	338	42.4	54.0	11.6	51.7	74.0	22.3	71

Note: No other emissions found in restricted bands. No new frequencies or amplitude differences found in simultaneous transmit mode.

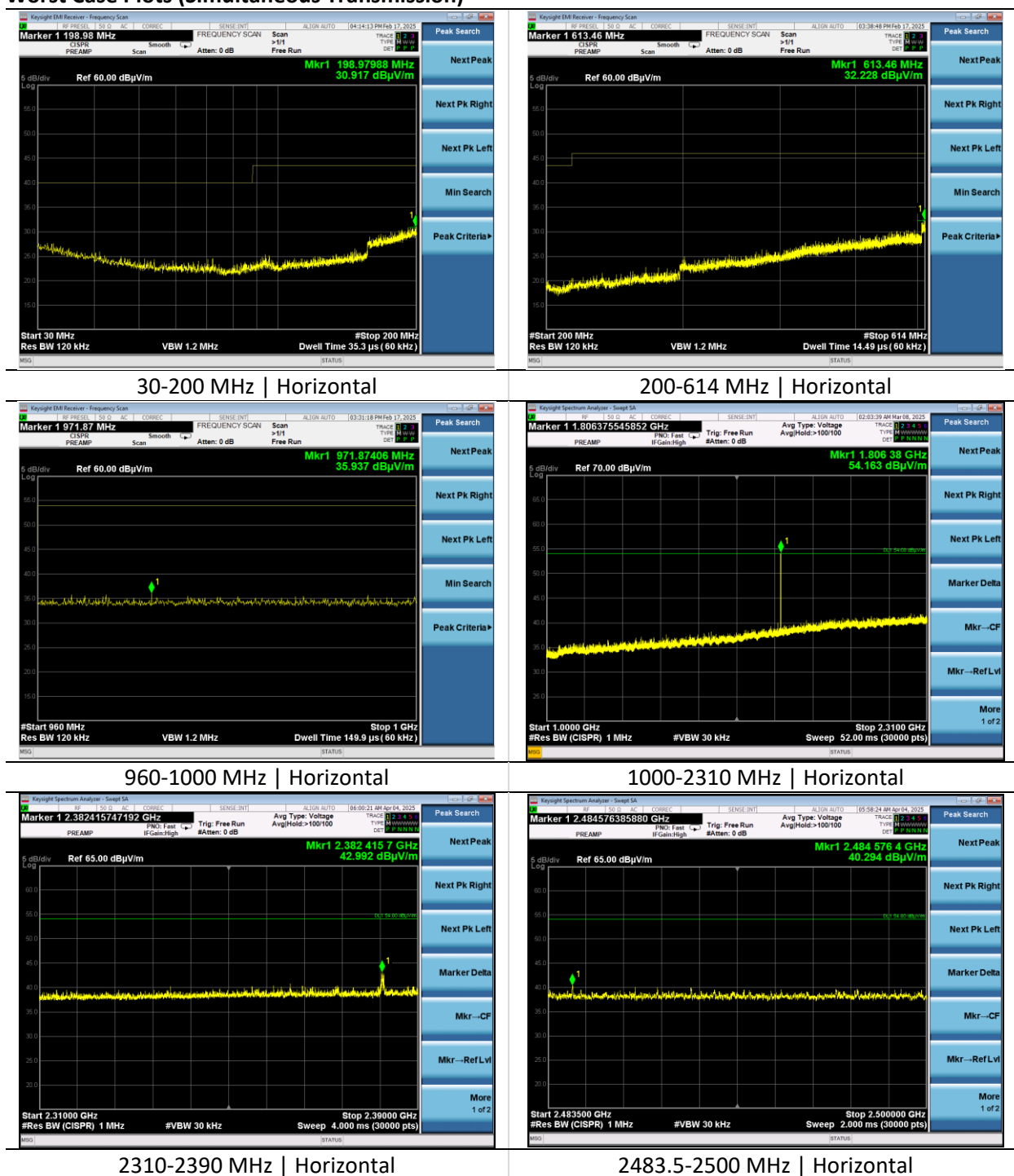
Worst Case Plots



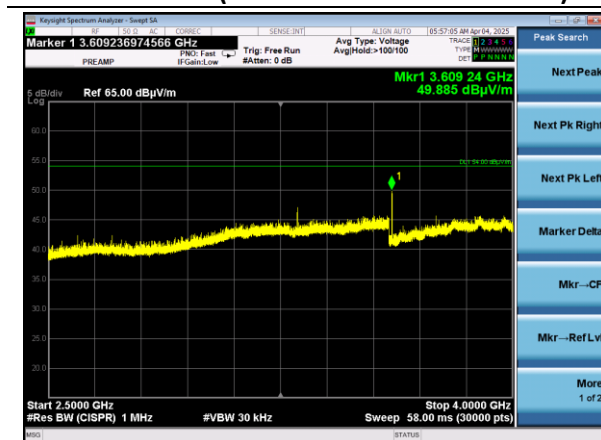
Worst Case Plots



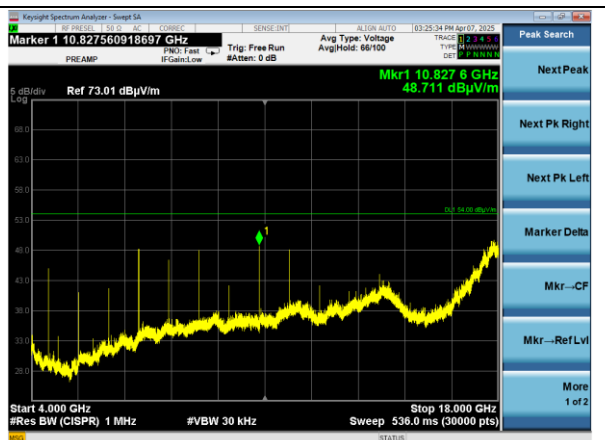
Worst Case Plots (Simultaneous Transmission)



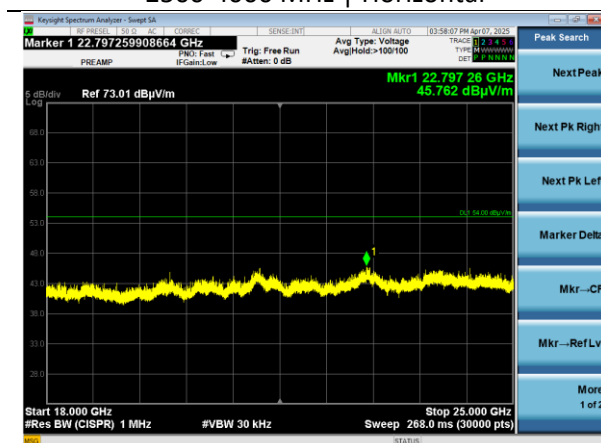
Worst Case Plots (Simultaneous Transmission)



2500-4000 MHz | Horizontal



4000-18000 MHz | Horizontal



18000-25000 MHz | Horizontal

6 REVISION HISTORY

Version	Date	Notes	Person
0	04/14/2025	Initial Draft	Adam Alger
1	04/15/2025	Final Draft	Adam Alger

END OF REPORT