



REPORT

For

Avari Wireless Inc.

1400 112th Ave SE, Ste 100
Bellevue, WA 98004

Date: June 11, 2024
Report No.: 20.01.22192-1
Revision No.: Rev 1
Project No.: 22192
Equipment: Dual-Band Medium Power Remote Unit
Model No.: RU37-2-PS-FG-21-4N-A0-1
FCC ID: 2BA6ERU372PSFG21A

TABLE OF CONTENTS

TEST REPORT	4
Revision History	5
Result Summary	6
1. EUT Information	8
EUT Description and Variant Models	8
Client Equipment Used During Test	10
Software and Firmware	10
Input/Output Ports	11
Power Interface	11
EUT Operation Modes	11
EUT Configuration Modes	11
2. Description of Test Setup	12
Test Equipment Verified for function	12
Measurement Uncertainty	12
Test Station Photo	13
Test Station Cables and Loads	13
Test Station Insertion Loss	13
3. Test Result	14
3.1 AGC Threshold	14
Test setup	15
Results – Output Power FCC Requirement	15
3.2 Occupied Bandwidth	16
Test setup	17
3.3 Out of Band Rejection	27
Test setup	27
Results	28
3.4 Input-Versus-Output Signal Comparison	30
Test setup	30
Results	31
3.5 Input/Output Power and Amplifier/Booster Gain	49
Test setup	49
Results	50
3.6 Out-Of-Band / Out-Of-Block Intermodulation and Spurious Emissions	51
Test setup	51
Results	52
3.7 Noise Figure	70
Test setup	70
Results	71
3.8 Frequency Stability	72
3.9 Radiated Emissions – Enclosure 30 MHz – 1 GHz	73
Test Method	74
Test Setup	74
Test Result	75
3.10 Radiated Emissions above 1 GHz	77
Test Method	78
Test Setup	78
Test Result	79
3.11 Conducted Emissions at AC Power Port	80

Prepared by: LabTest Certification Inc.
Date Issued:June 11, 2024
Project No.: 22192

Client: Avari Wireless Inc.
Report No.: 20.01.22192-1
Revision No.: 1

Test Method	80
Test Setup	81
Test Results	81
List of test equipment	84
Annex	85
Annex 1 - ISO 17025 ACCREDITATION CERTIFICATE	85

TEST REPORT

FCC Part 15, Subpart B - Unintentional Radiators FCC Part 90 - Private Land Mobile Radio Services

Report Reference No.	20.01.22192-1	
Report Revision History	✓ Rev. 0 ✓ Rev.1	
Compiled by (+ signature)	Zara Vali	<i>Zara Vali</i>
Approved by (+ signature)	Jack Qin	<i>Jack Qin</i>
Date of issue	June 11, 2024	
Total number of pages	85	
FCC Site Registration No.: CA5970		
IC Site Registration No.: 5970A-2		
Testing Laboratory LabTest Certification Inc.		
Address Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada		
Applicant's name Avari Wireless Inc.		
Address 1400 112th Ave SE, Ste 100 Bellevue, WA 98004		
Manufacture's Name Avari Wireless Inc.		
Address 1400 112th Ave SE, Ste 100 Bellevue, WA 98004		
Test specification:		
Standards	➤ FCC Part 90 Private Land Mobile Radio Services	
Test procedure	➤ KDB 935210 D05 Indus Booster Basic Meas v01r04 ➤ ANSI/TIA-603- E-2016 ➤ ANSI C63.4:2014	
Test item description :		
Trade Mark	RU37™	
Model/Type reference	RU37-2-PS-FG-21-4N-A0-1	
Serial Number	10911139E01BD2001	
FCC ID	2BA6ERU372PSFG21A	
Possible test case verdicts:		

Prepared by: LabTest Certification Inc.
 Date Issued: June 11, 2024
 Project No.: 22192

Client: Avari Wireless Inc.
 Report No.: 20.01.22192-1
 Revision No.: 1

- test case does not apply to the test object	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Date of receipt of test item	February 12, 2024
Date of performance of tests	February 12, 2024

Revision History

Revision	Date	Reason For Change	Author
0	May 3rd, 2024	Initial Data	Zara Vali
1	June 11, 2024	Updating standards for radiated emission	Zara Vali

Result Summary

Tests performed: Conducted Measurement Radiated Emissions on Enclosure	Testing location: Bench top, Richmond Lab In SAC, Richmond Lab
<p>The tests indicated in Test Summary were performed on the product constructed as described below.</p> <p>The test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.</p> <p>Based on the results of our investigation, we have concluded the product tested complies with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item tested. LabTest does not make any claims of compliance for samples or variants which were not tested.</p> <p>The Compliance Status is a judgment based on the direct measurements and calculated highest emissions to appropriate standard limits. Measurement uncertainty values, provided on calibration certificates, were not be used in the judgment of the final status of compliance.</p>	

Test Item	Regulation	Measurement Method	Result
AGC Threshold	FCC Part 2 2.1046(a) FCC Part 90.219(d)	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.2	PASS
Occupied Bandwidth	FCC Part 2 2.1049	ANSI/TIA-603- E-2016; KDB 935210 D05, v01r03	PASS
Out of Band Rejection	FCC Part 2 2.1046(a) FCC Part 90.219(d)	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.3	PASS
Input-versus-output Signal Comparison	FCC Part 90.210 (j) (h) (g) (c) (d) and (e)	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.4	PASS
Input/output Power and Amplifier/Booster Gain	FCC Part 90.219	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.5	PASS
Noise Figure	FCC Part 90.219	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.6	PASS
Measuring out-of-band/out-of- block (including intermodulation) and spurious emissions	FCC Part 90.219	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.7	PASS
Frequency stability	NA	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.8	PASS
Spurious emissions radiated measurements	FCC Part 90 (§ 90.219 and § 90.210)	ANSI C63.4:2014 KDB 935210 D05, v01r03, Section 4.9 ANSI C63.26-2015	PASS
Radiated Emissions	FCC Part 90 (§ 90.219 and § 90.210)	ANSI C63.4:2014, CISPR 16-2-1 ANSI C63.26-2015 KDB 935210 D05 v01r04	PASS
Conducted Emissions at AC Main	FCC Part 15 Subpart B (§ 15.107)	ANSI C63.4:2014, CISPR 16-2-1	PASS

1. EUT Information

EUT Description and Variant Models

Description:

The RU37 800PS/415PS/150 PS is a tri-band remote unit that provides at least 5 W of output power on each band. The tri-band unit supports up to 3 bands in a sealed type 2 chassis for Class A operation. On the downlink path the RU37 PS remote receives an aggregated stream of digitized RF signals from an DMU PS, which it then converts into analog RF signals. Depending on the frequency band, the signal is amplified in the RF module and then sent out through simplex RF ports to an external filter. On the UL path the RU37 PS remote receives analog RF signals for the RF band, from an external filter. The RF signals are converted into a digital data stream and then delivered over optical fiber to an DMU

PS. The RU37 PS remote also accommodates a 1 Gbps Ethernet backhaul for transporting the data from nearby IP devices such as security cameras and Wi-Fi access points. The intentional transmitter only exists in the downlink path and hence the EMC tests in this report dedicated to the downlink emission.

In order to build up a complete signal booster system, the DMU PS was connected as the Auxiliary device. The DMU PS does not have an antenna port, where the signal was injected and ejected via coaxial cables.

EUT Picture



Variant Models:

The following variant models were not tested as part of this evaluation but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

RU37-2-PS-FG-21-4N-A0-1 Dual Band UHF VHF model as tested

Dual Band

1. RU37-2-PS-FG-21-4N-D0-1
2. RU33-2- PS-FG-21-4N-D0-1

- Single Band
3. RU37-1-PS-F-21-2N-D0-1
 4. RU33-1- PS-F-21-2N-D0-1
 5. RU37-1-PS-G-21-2N-D0-1
 6. RU33-1- PS-G-21-2N-D0-1

Application for	PS 415/150 Remote Unit, Dual Band Medium Power DAS
Passing Transmit Frequency	400 MHz – 425 MHz 152 MHz – 174 MHz
Operating Transmit Frequency FCC	406.1 MHz – 425 MHz 150.8 MHz – 156.2475 MHz 157.1875 MHz – 161.575 MHz 161.775 MHz – 161.9625 MHz 162.0375 MHz – 173.4 MHz
Passing Receive Frequency	405 MHz – 430 MHz 152 MHz – 174 MHz
Operating Receive Frequency FCC	406.1 MHz – 430 MHz 150.8 MHz – 156.2475 MHz 157.1875 MHz – 161.575 MHz 161.775 MHz – 161.9625 MHz 162.0375 MHz – 173.4 MHz
Number of Channels	Up to 64 channels
Rated RF Output (e.i.r.p.)	37 dBm
Modulation Type	P25 Phase I C4FM, CQPSK; P25 Phase II HDQPSK on full band of Band 415 and Band 150
Equipment mobility	Fixed
Operating condition.....	-40 to +50 °C
Mass of equipment (g)	< 27,700g
Dimensions (W X D X H)	410 mm X 230 mm X 696 mm
Nominal Voltages for:	<u>48 V</u> stand-alone equipment <u>48 V</u> combined (or host) equipment
Supply Voltage:	_____ AC _____ Amps <u>48V</u> DC <u>7.1</u> Amps

If DC Power:	<input type="checkbox"/> Internal Power Supply
	<input checked="" type="checkbox"/> External Power Supply
	<input type="checkbox"/> Battery
	<input type="checkbox"/> Nickel Cadmium
	<input type="checkbox"/> Alkaline
	<input type="checkbox"/> Nickel-Metal Hydride
	<input type="checkbox"/> Lithium-Ion
	<input type="checkbox"/> Other

Client Equipment Used During Test

Use*	Product Type	Manufacturer	Model	Comments
EUT	<i>RU37, 415PS, 150 PS</i>	Avari Wireless Inc.	RU37-2-PS-FG-21-4N-A0-1	EUT where the RF (I/O) antenna is attached via duplexers/multiplexer when necessary.
AE1	<i>DMU, 415PS, 150PS</i>	Avari Wireless Inc.	VL-DMU-2-PS-FG-1-4N-D-1F	Auxiliary equipment, which is the front end of system interfaced to Base Station.
AE2	Element Manager (DMC)	Avari Wireless Inc.	EM-1A	Auxiliary equipment provides the configuration and control interface to <i>DMU</i> and <i>RU37</i> .
AE3	Power Supply	MeanWell	HGL-480H-48	AC to DC Converter, I/P: 120VAC, 60Hz, 5.5A O/P: +48VDC, 480W
Abbreviations: EUT - Equipment Under Test AE - Auxiliary/Associated Equipment SIM - Simulator (Not Subjected to Test)				

Software and Firmware

Use*	Description	Version
EUT	Software installed	5.6.0-0.5750
AE1	Software installed	5.6.0-0.5750
AE2	Software installed	5.7.1-1385
Abbreviations: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)		

Input/Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	DC Power Port	DC	No	No	Dual feed 48 VDC Assembly
2	4 * RF Input/Output Ports	I/O	No	No	N-Type Coaxial
3	2 * Optical Fibre I/O Ports	I/O	No	No	LC/UPC Duplex
4	2 * TP	TP	No	No	RJ-45
*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

Power Interface

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	48	7.1	340	DC	-	DC power port is connected to AC/DC convertor.

EUT Operation Modes

Mode #	Description
1	UL and DL transmission and receiving ON

EUT Configuration Modes

Mode #	Description
1	DMU maximum input threshold set to -10 dBm, uplink attenuation set to 0dB; RU37 uplink and downlink attenuation set to 0dB.

2. Description of Test Setup

Test Equipment Verified for function

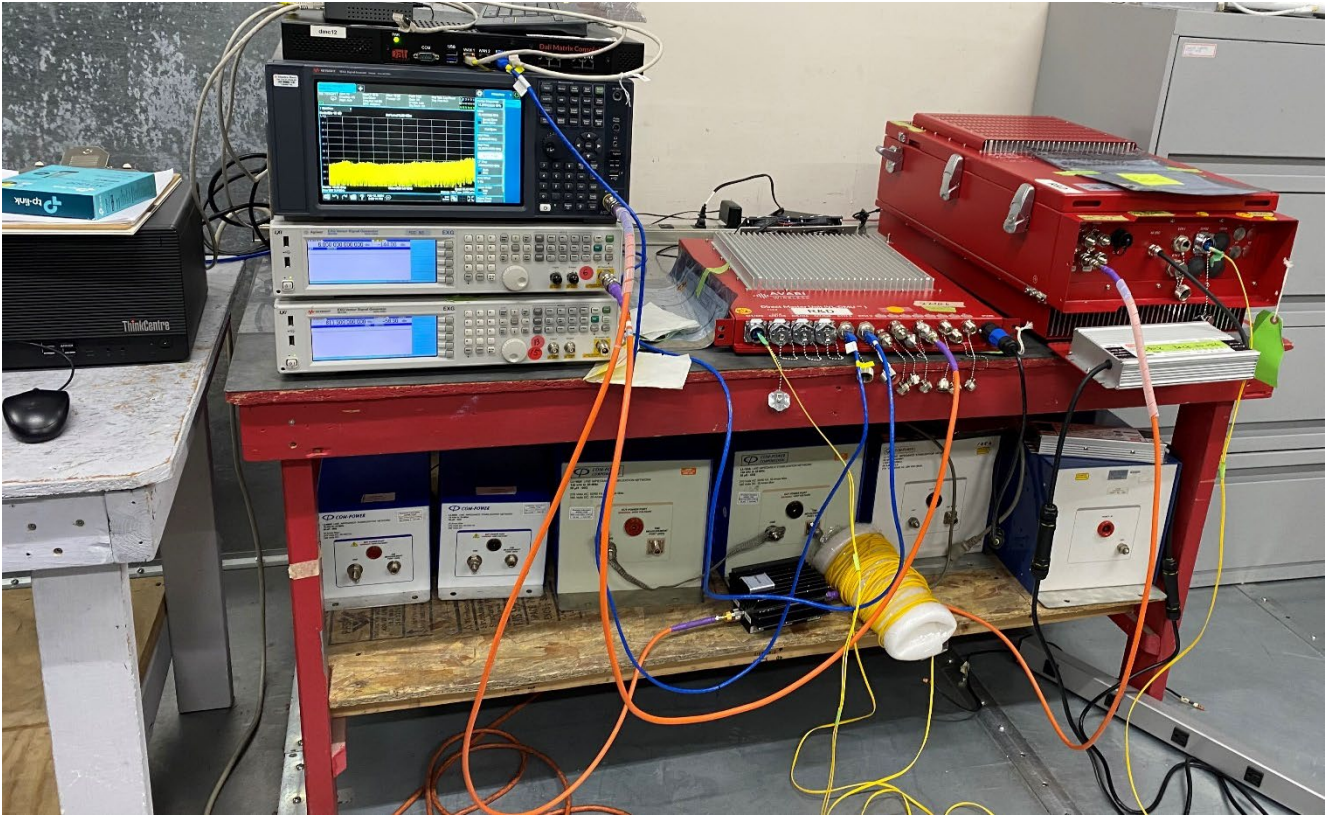
Model #	Description	Checked Function	Results
KT-N9038A	Spectrum Analyzer	Frequency and Amplitude	Connected 50MHz and -20 dBm Ref_signal and checked OK
JB1	Antenna, 30 to 2000MHz	Checked structure	Normal – no damage
SAS-571	Antenna, 1 to 18GHz	Checked structure	Normal – no damage
KT-N5172B	Signal Generator	Frequency, Amplitude and Modulation	Within MFR Specs
KT-N9020B	Spectrum Analyzer	Frquency and Amplitude	Within MFR Specs

Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests:

Parameter	Uncertainty
Radio Frequency	±1 ppm
Total RF Power: Conducted	±1 dB
RF Power Density: Conducted	±2.75 dB
Spurious Emissions: Conducted	±3 dB
Temperature	±1 °C
Humidity	±5 %
DC and Low Frequency Voltages	±3 %
Radiated Emission, 30 to 18,000MHz	± 4.95 dB

Test Station Photo



Test Station Cables and Loads

Model #	Manufacture	Description
3 x TM8-N1S1-60	MegaPhase	N male to SMA male coaxial cable in 60 inches
1 x 49-30-34	Aeroflex	30dB 25W attenuator

Test Station Insertion Loss

	Band 415	Band 150
DL Transmitter	31.1 dB	30.7 dB
UL Receiver	0.8 dB	0.8 dB

3. Test Result

3.1 AGC Threshold

Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.219(d)	Room Temperature (°C)	21		
Test Procedure	ANSI TIA-603- E-2016 KDB 935210 D05, v01r03, Section 4.2	Relative Humidity (%)	45		
Test Location	Richmond	Barometric Pressure (hPa)	1012		
Test Engineer	Zara Vali	Date	February 12, 2024		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> 400 MHz – 425 MHz; <input checked="" type="checkbox"/> 152 MHz – 174 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Output Power is less than or equal 37.08 dBm in band 415, and less than or equal 37.09 dBm in band 150.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

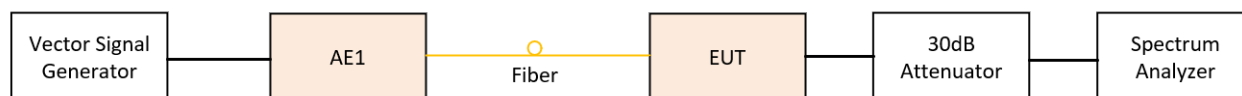
Test setup

Description of test set-up:

Output power is measured by connecting a spectrum analyzer to RF output connector of EUT via 30dB attenuator. With a nominal input power and the amplifier properly adjusted the RF output is measured.

The EUT was set to **Operation Mode #1 with configuration Mode #1**.

The maximum output power is measured when the Automatic Level Control (ALC) starting to compress the power and hold to a constant level.



Results – Output Power FCC Requirement

Frequency Range (MHz)	Frequency (MHz)	Input Power Trip ALC (dBm)	Output Power (dBm)	Output Power (Watt)
415PS 406 - 415	406.1	-10.6	36.99	5.0
	415.5	-10.8	37.03	5.04
	424.9	-11.0	37.08	5.11
150PS 152 - 174	153	-10.8	36.94	4.94
	161.5	-11.4	37.03	5.04
	170	-11.2	37.09	5.12

3.2 Occupied Bandwidth

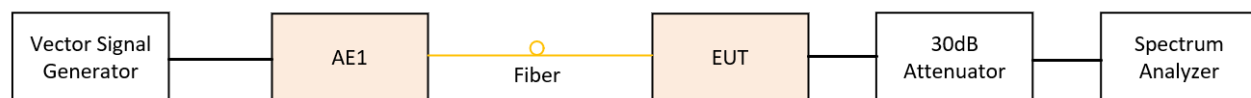
Governing Doc	FCC Part 2 2.1049	Room Temperature (°C)	21		
Test Procedure	ANSI/TIA-603- E-2016; KDB 935210 D05, v01r03	Relative Humidity (%)	45		
Test Location	Richmond	Barometric Pressure (hPa)	1012		
Test Engineer	Zara Vali	Date	February 12, 2024		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> 400 MHz – 425 MHz; <input checked="" type="checkbox"/> 152 MHz – 174 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Output signal has an occupied channel bandwidth less than the designated channel bandwidth on any location on the operating band. <ul style="list-style-type: none">- C4FM < 12.5 kHz- CQPSK < 6.25 kHz- HDQPSK < 12.5 kHz- 4 kHz FM with 1kHz deviation < 12.5 kHz					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

Test setup

Occupied Bandwidth is measured by connecting a Spectrum Analyzer to the RF output connector via 30dB attenuator. The required measurement resolution bandwidth (RBW) is 1% of the emission bandwidth. 99% energy rule was applied to measure the occupied channel bandwidth. The emission bandwidth is measured as the width of the signal between two frequency points on the channel edge, outside of which the transmission power is attenuated at least 26dB below the transmitter output power

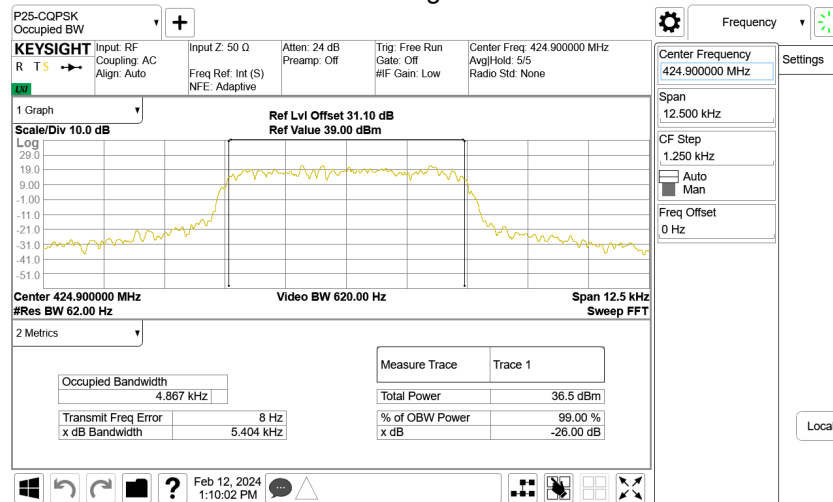
The EUT was set to **Operation Mode #1 with configuration Mode #1**.

The occupied bandwidth of UL output is measured under one input conditions: Nominal: with input 0.5dB below AGC threshold

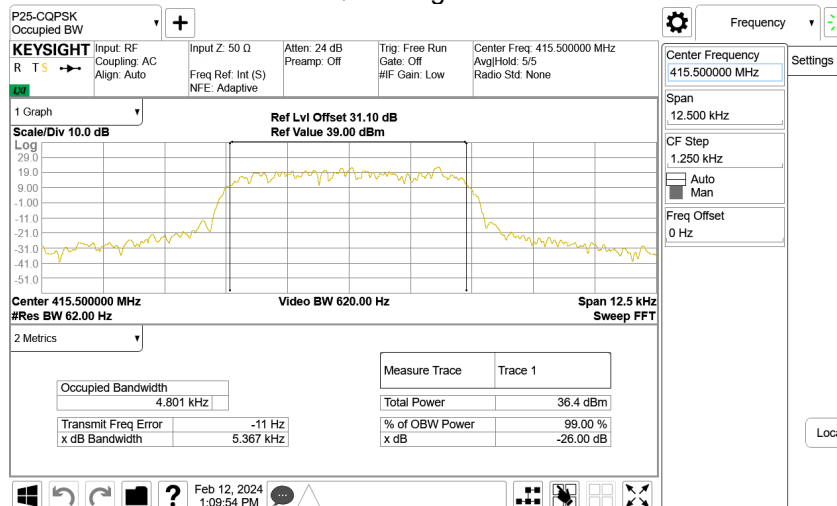


Results – Occupied Bandwidth

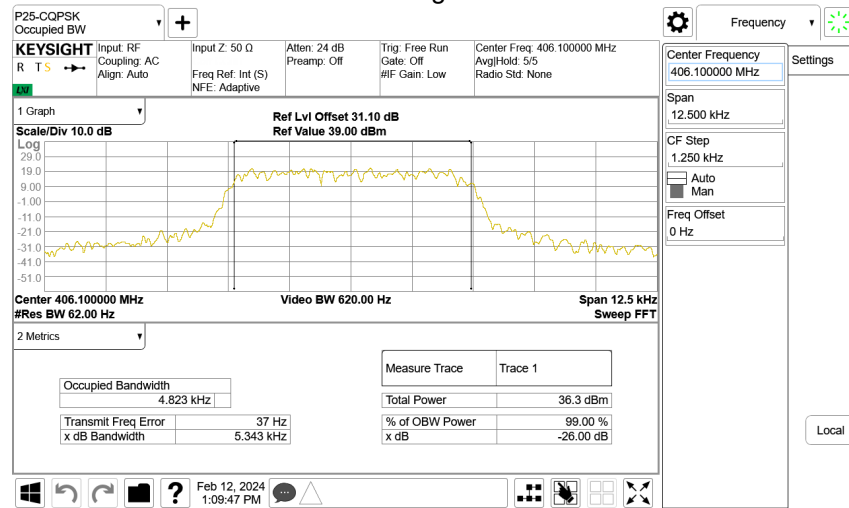
415PS CQPSK Signal at 424.9 MHz



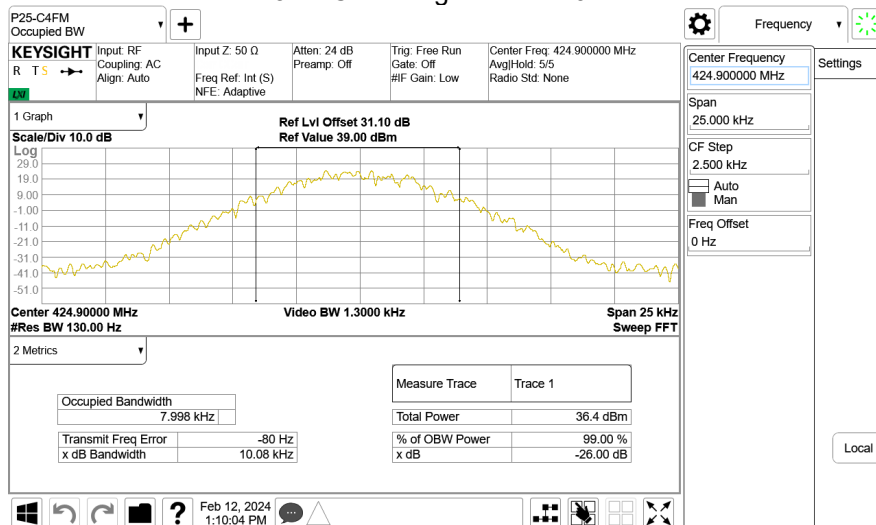
415PS CQPSK Signal at 415.5 MHz



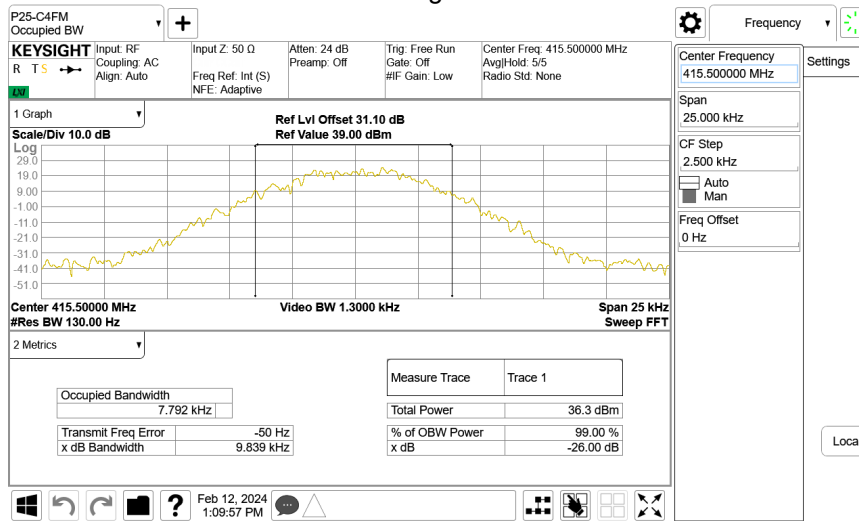
415PS CQPSK Signal at 406.1 MHz



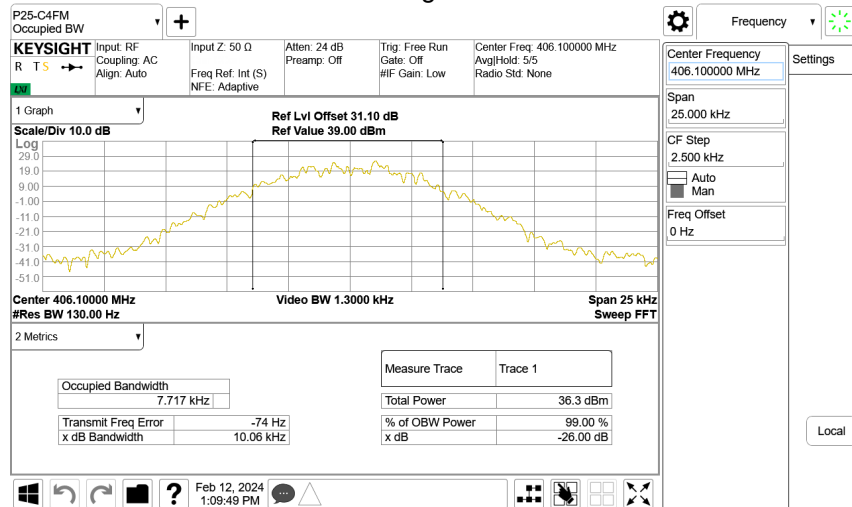
415PS C4FM Signal at 424.9 MHz



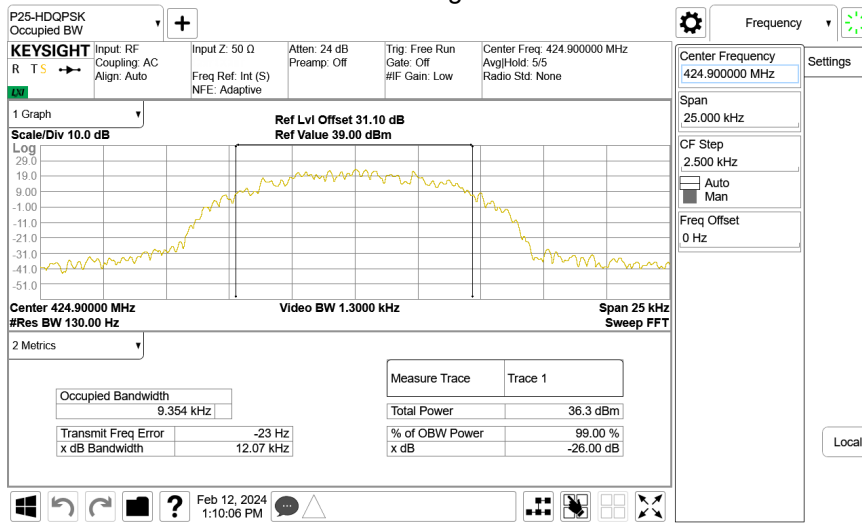
415PS C4FM Signal at 415.5 MHz



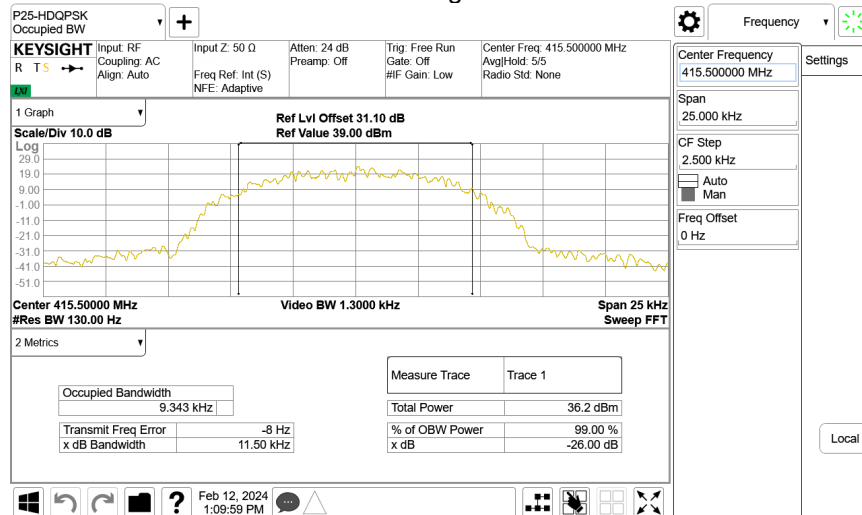
415PS C4FM Signal at 406.1 MHz



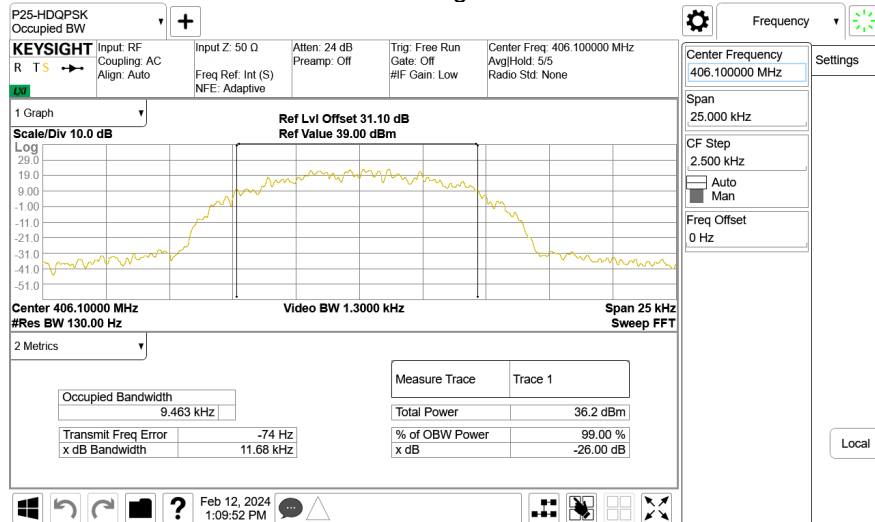
415PS HDQPSK Signal at 424.9 MHz



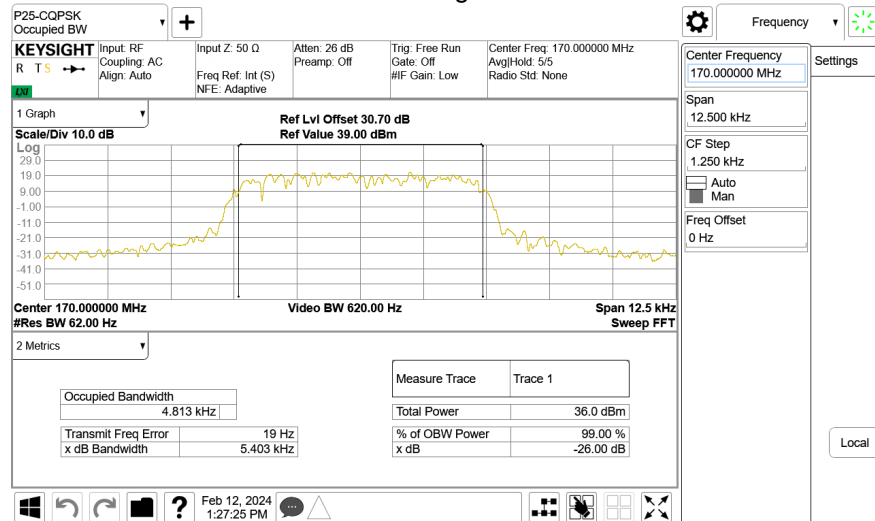
415PS HDQPSK Signal at 415.5 MHz



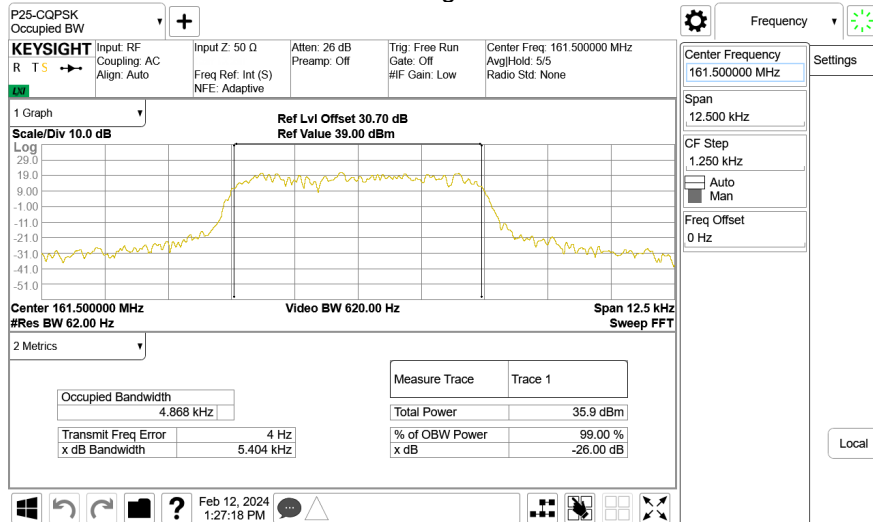
415PS HDQPSK Signal at 406.1 MHz



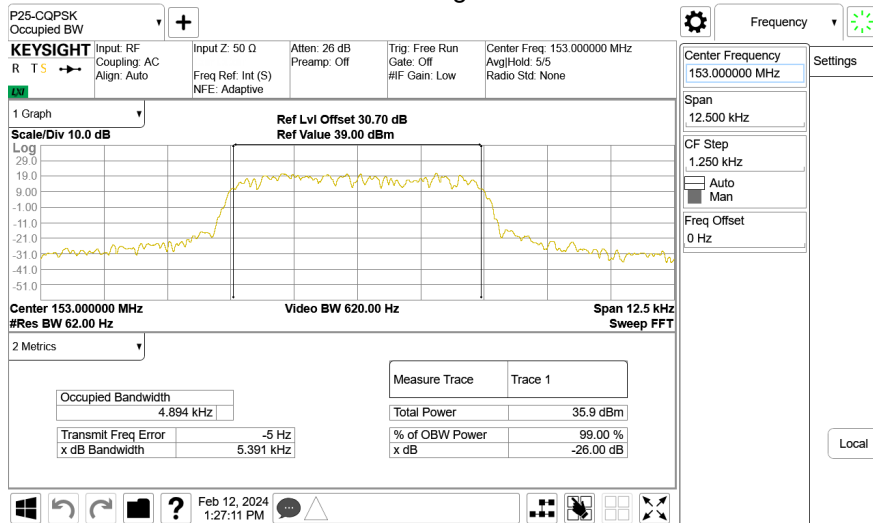
150PS CQPSK Signal at 170 MHz



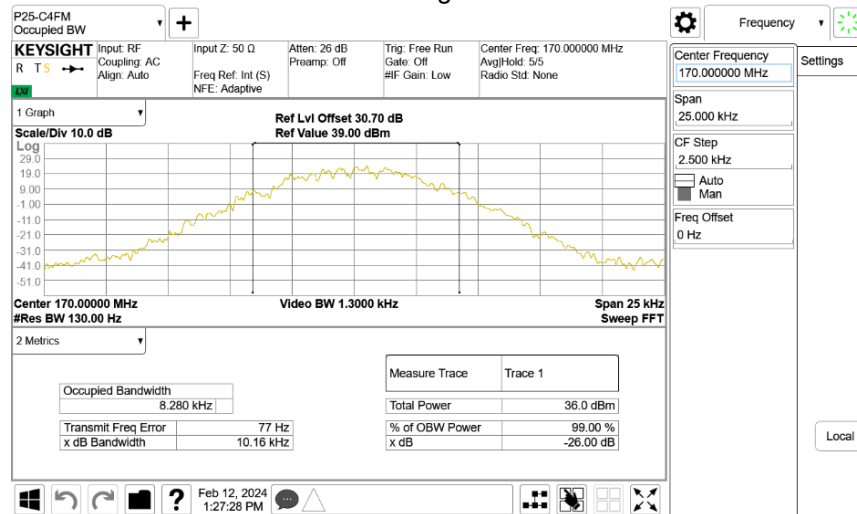
150PS CQPSK Signal at 161.5 MHz



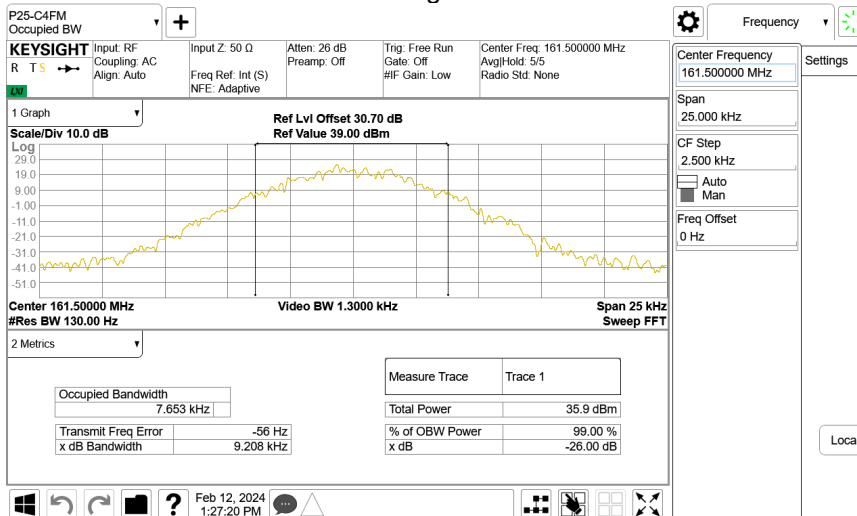
150PS CQPSK Signal at 153 MHz



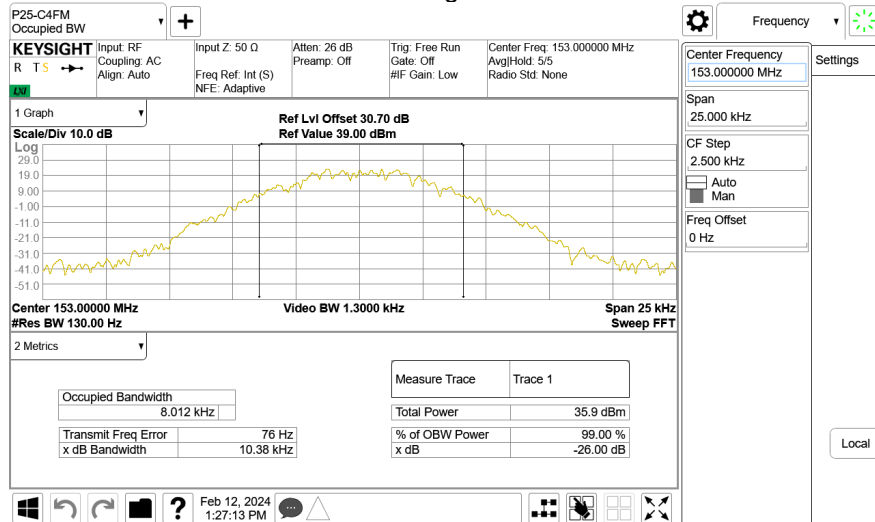
150PS C4FM Signal at 170 MHz



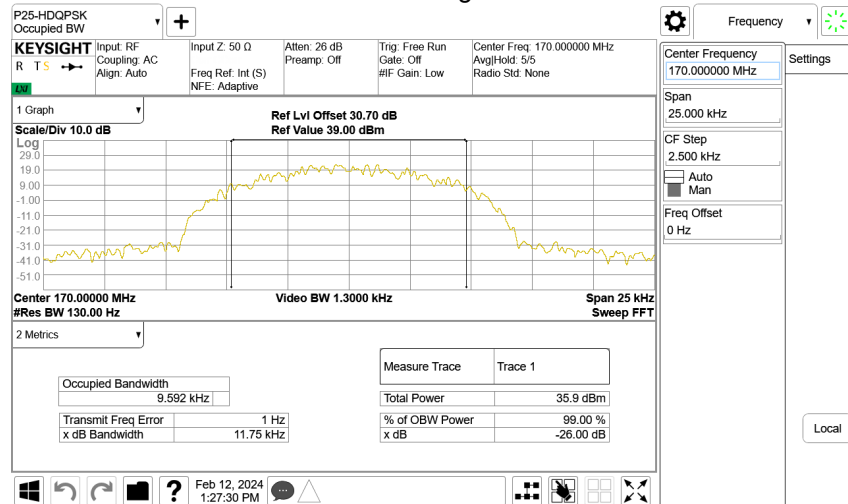
150PS C4FM Signal at 161.5 MHz

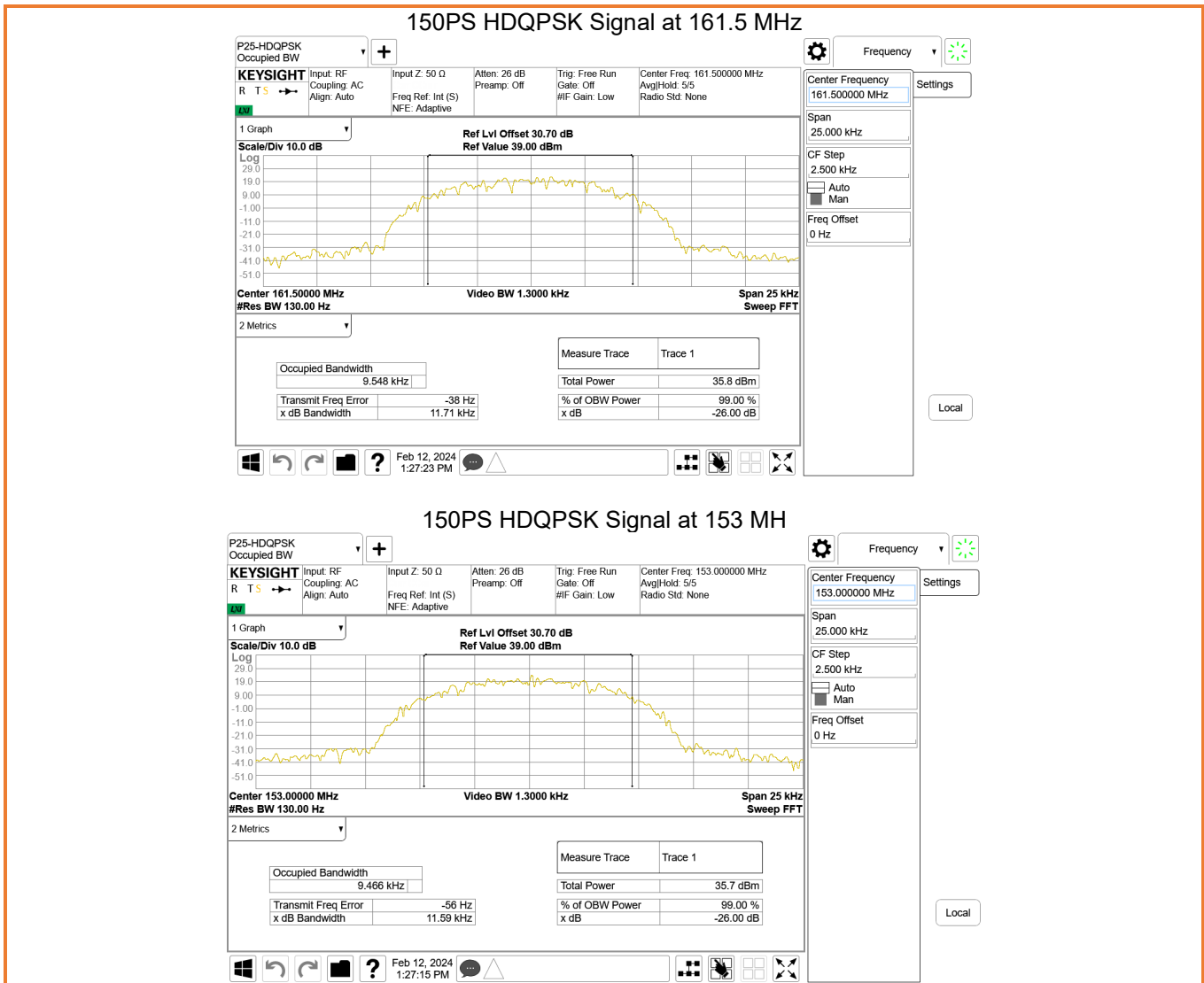


150PS C4FM Signal at 153 MHz



150PS HDQPSK Signal at 170 MHz





3.3 Out of Band Rejection

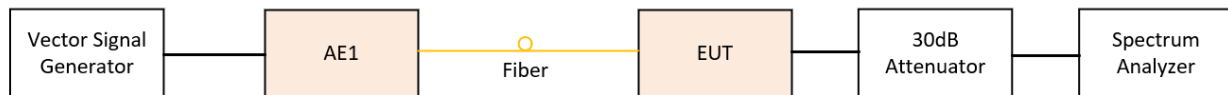
Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.219(d)	Room Temperature (°C)	20.5		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r03	Relative Humidity (%)	38.6		
Test Location	Richmond	Barometric Pressure	101.8		
Test Engineer	Zara Vali	Date	February 12, 2024		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> Product Passband $\pm 250\%$				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 1 to 5% of the EUT passband / $\geq 3 \times \text{RBW}$				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

Test setup

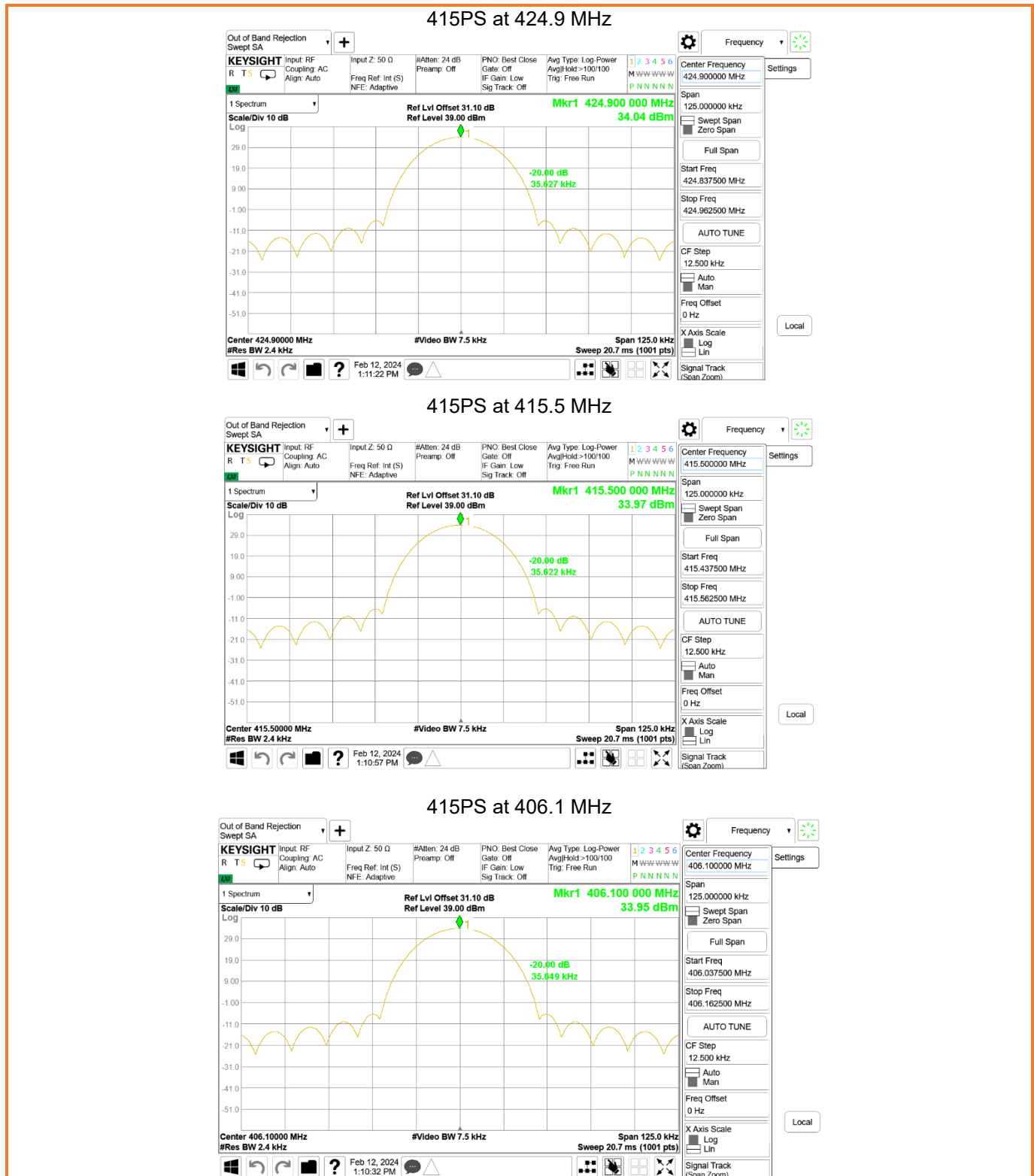
The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r03. The signal booster was set to maximum gain. A swept CW signal was set to the range of $\pm 250\%$ of the product pass band. The CW amplitude was set to 3 dB below the AGC threshold so that the ALC should not activate throughout the test.

After the max-hold sweep trace was completed, a marker was set to the peak amplitude, and a 20dB bandwidth was measured between two additional markers fall 20 dB from the peak.

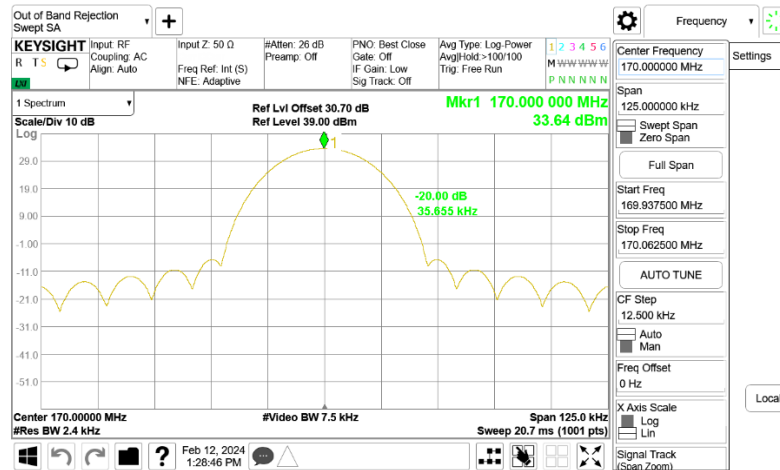
The EUT was set to **Operation Mode #1 with configuration Mode #1.**



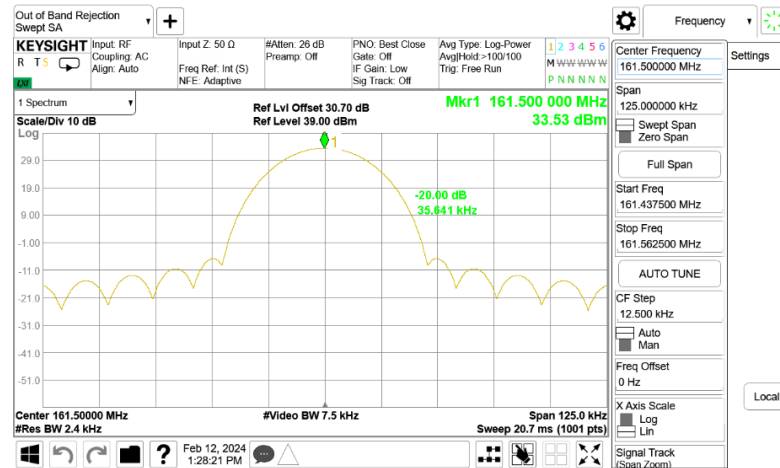
Results



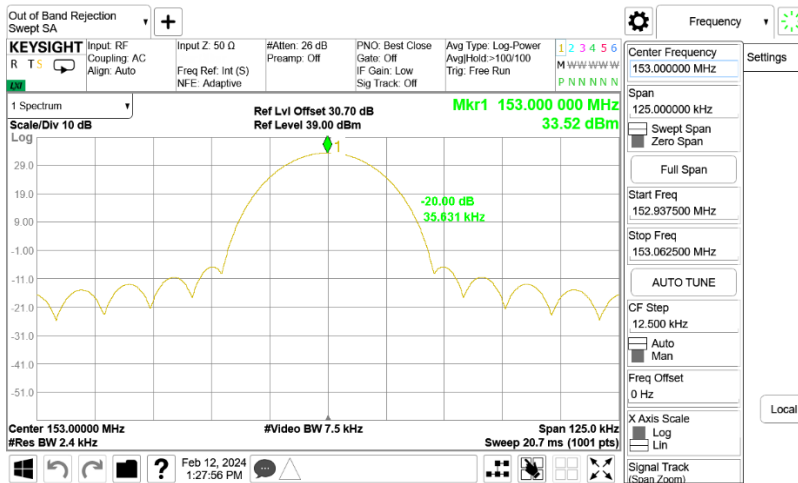
150PS at 170 MHz



150PS at 161.5 MHz



150PS at 153 MHz



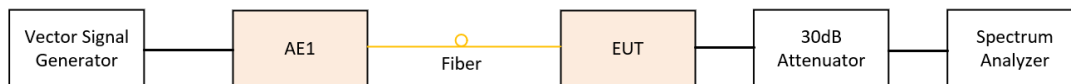
3.4 Input-Versus-Output Signal Comparison

Governing Doc	FCC Part 90.210 (j) (h) (g) (c) (d) and (e)	Room Temperature (°C)	20.5		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r03	Relative Humidity (%)	38.6		
Test Location	Richmond	Barometric Pressure (kPa)	101.8		
Test Engineer	Zara Vali	Date	February 12, 2024		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	Dec 12, 2023	Dec 12, 2026
Spectrum Analyzer	Keysight	N9020B	MY62153079	Oct 25, 2023	Aug 1, 2025
Frequency Range:	<input checked="" type="checkbox"/> 400 MHz – 425 MHz; <input checked="" type="checkbox"/> 152 MHz – 174 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 100 Hz				
Type of Facility:	<input checked="" type="checkbox"/> Testbench				
Distance:	<input checked="" type="checkbox"/> direct connect				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Signal of all types of modulation is contained within the emission mask.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

Test setup

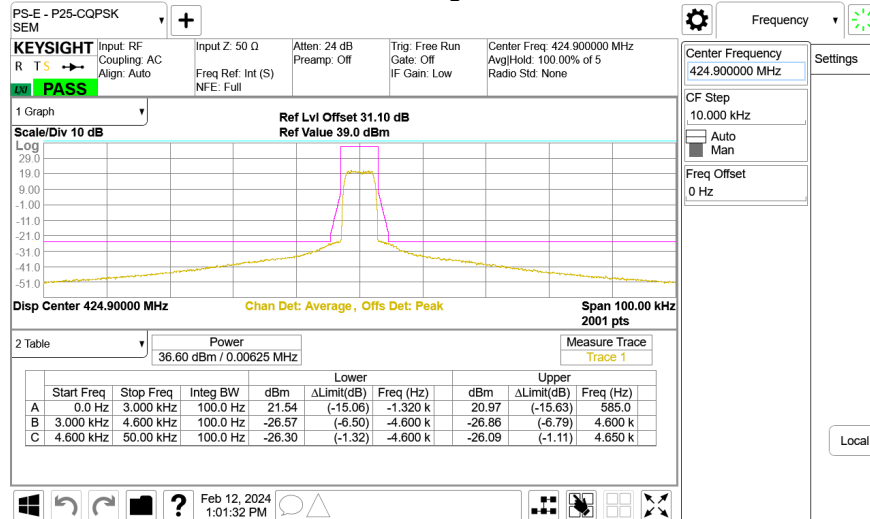
Spectrum Emission Mask is measured by connecting a Spectrum Analyzer to the RF output connector. The input power was adjusted to produce maximum output power on the antenna port. The reference level was measured with integrated BW of the designated channel BW. The emission was measured with RBW 100 Hz.

The EUT was set to **Operation Mode #1 with configuration Mode #1**.

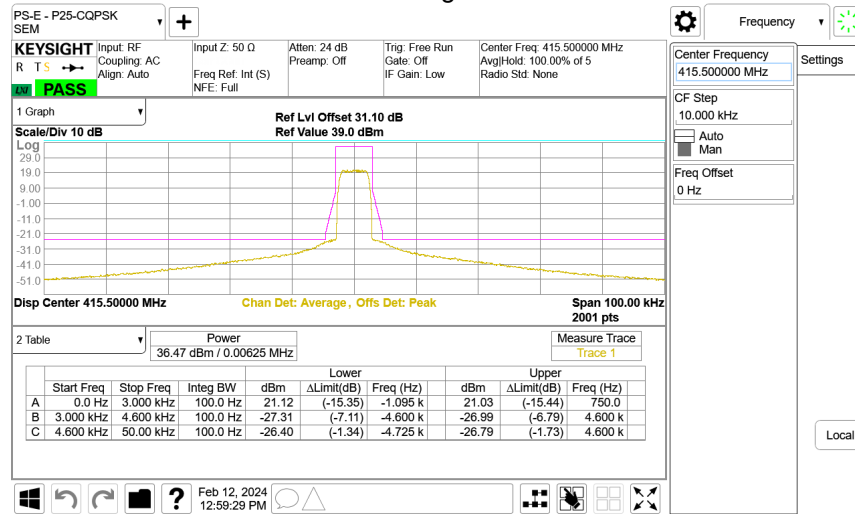


Results

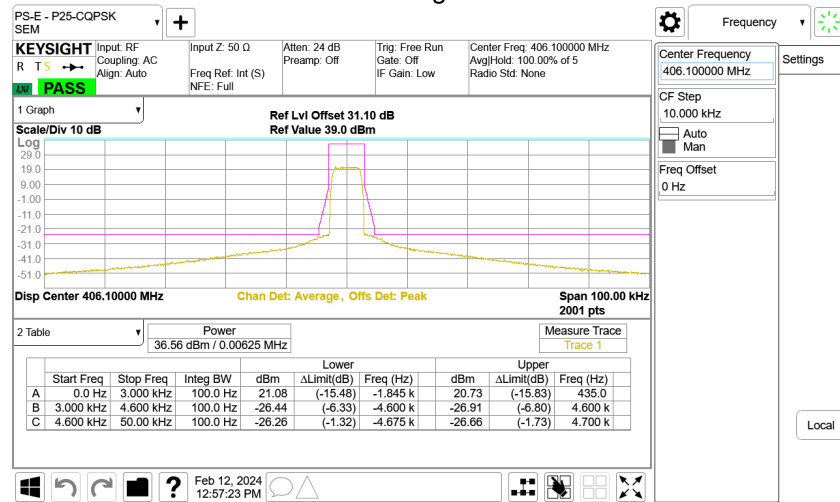
415PS CQPSK Signal at 424.9MHz



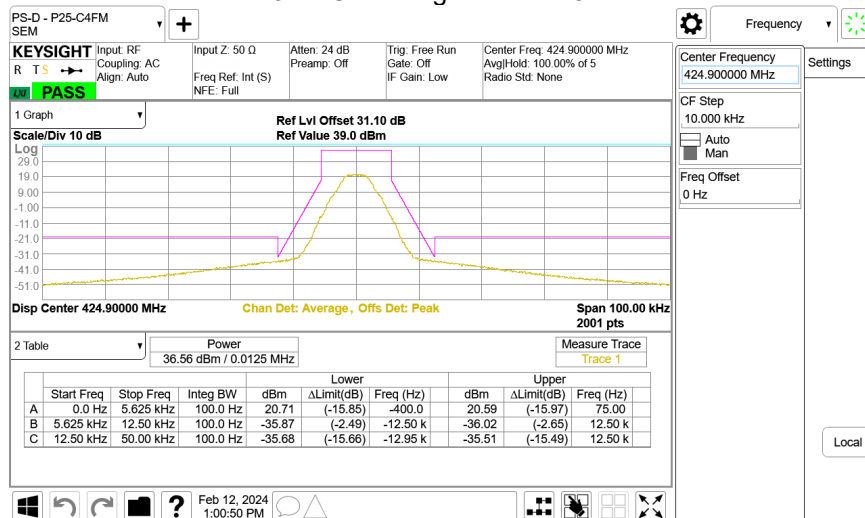
415PS CQPSK Signal at 415.5MHz



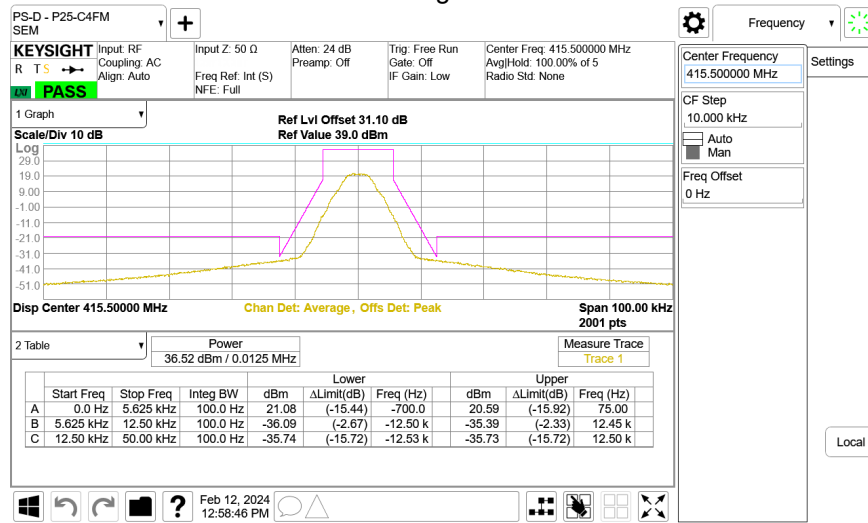
415PS CQPSK Signal at 406.1MHz



415PS C4FM Signal at 424.9MHz



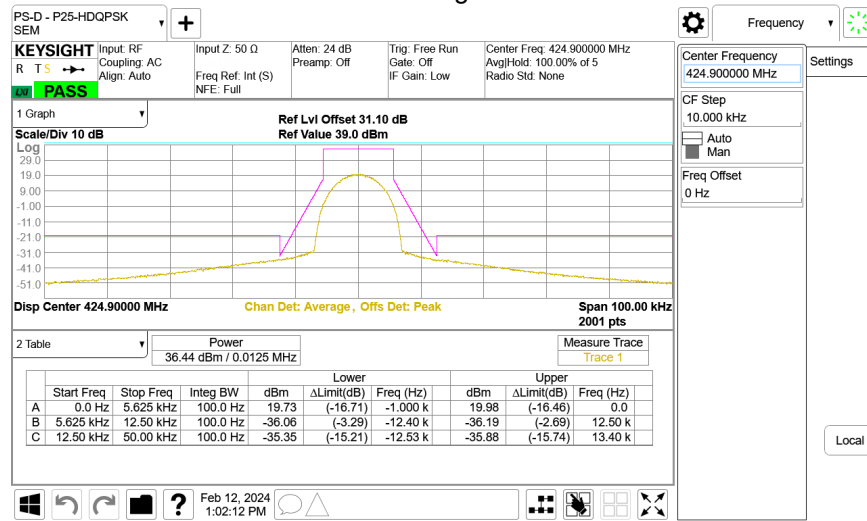
415PS C4FM Signal at 415.5MHz



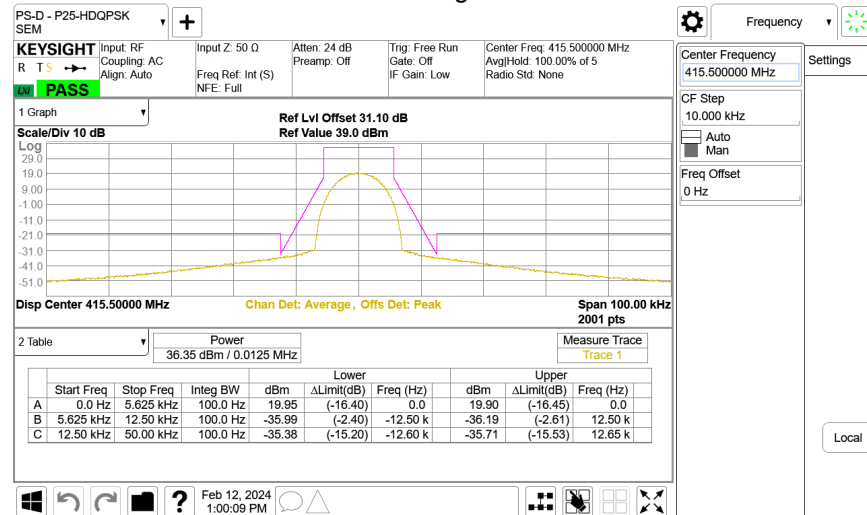
415PS C4FM Signal at 406.1MHz



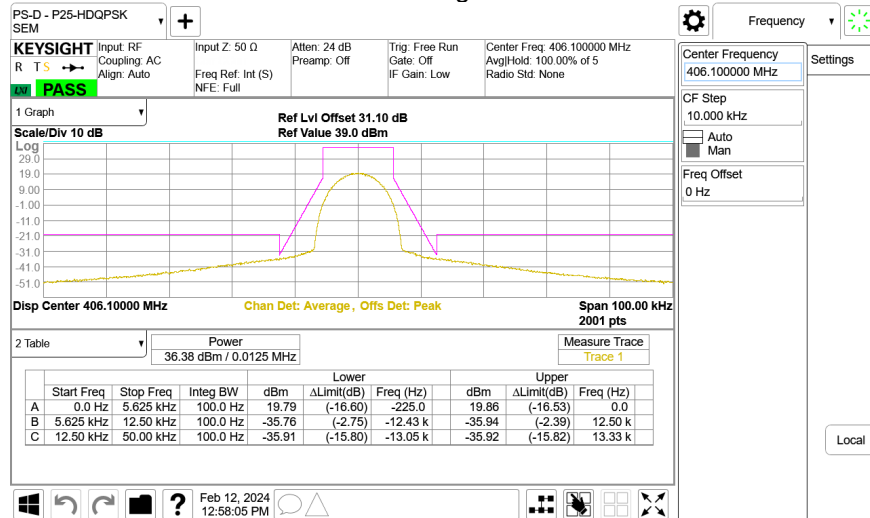
415PS HDQPSK Signal at 424.9MHz



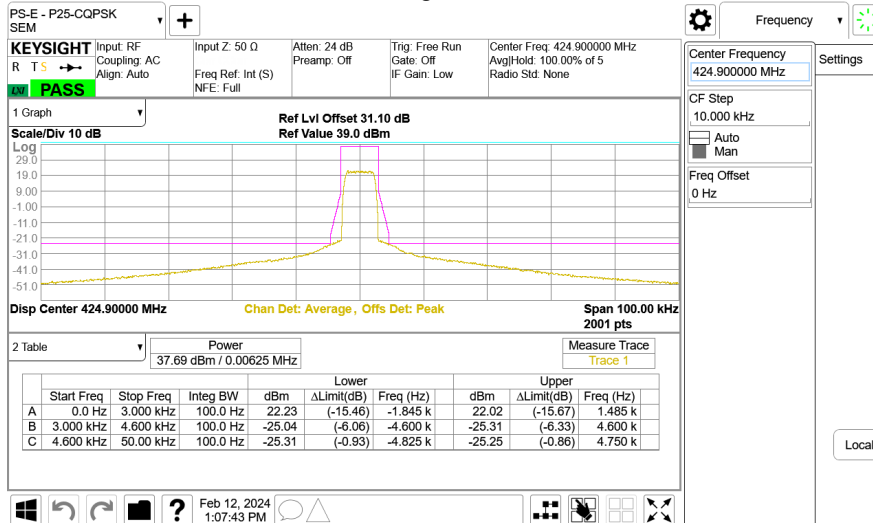
415PS HDQPSK Signal at 415.5MHz



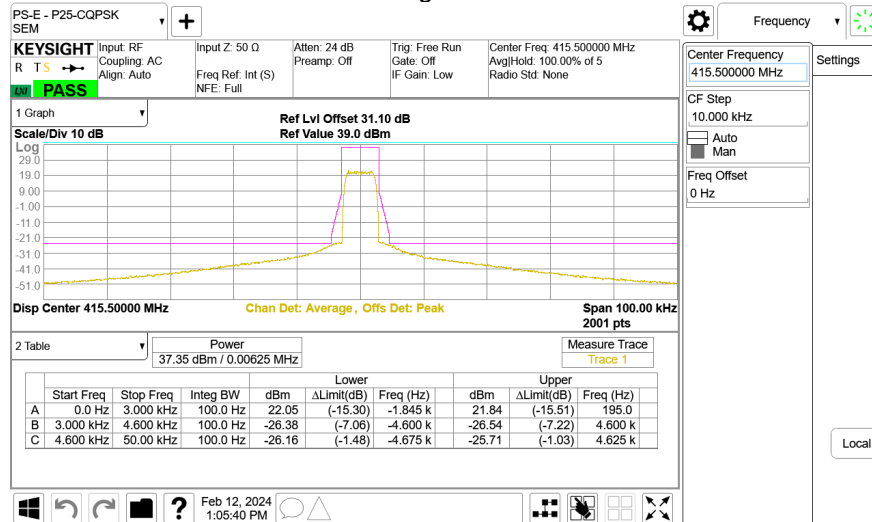
415PS HDQPSK Signal at 406.1MHz



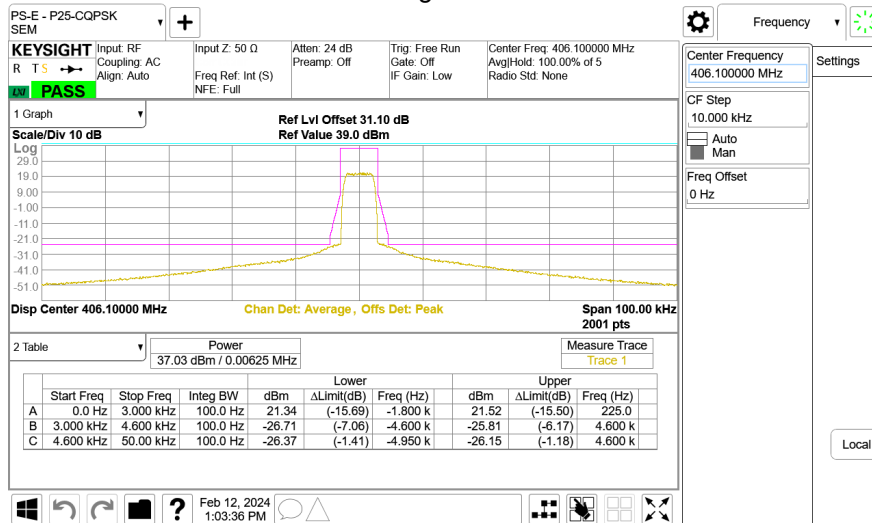
415PS CQPSK Signal at 424.9MHz ALC



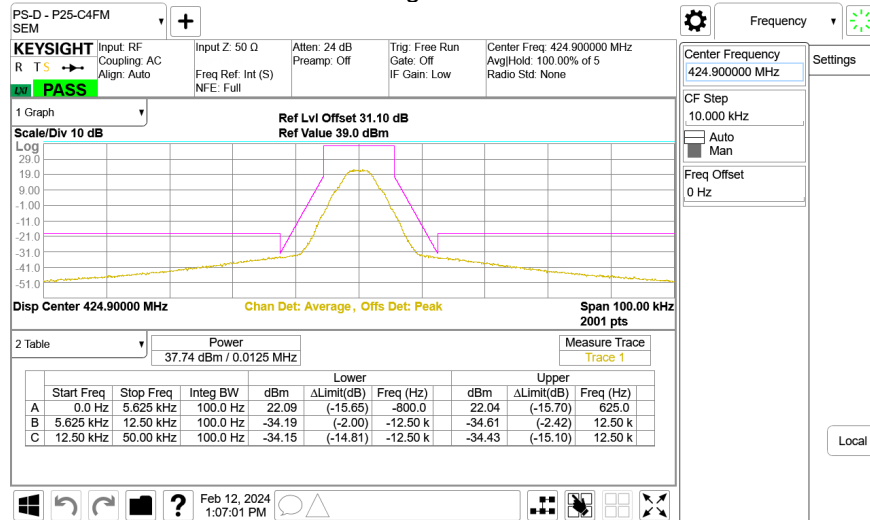
415PS CQPSK Signal at 415.5MHz ALC



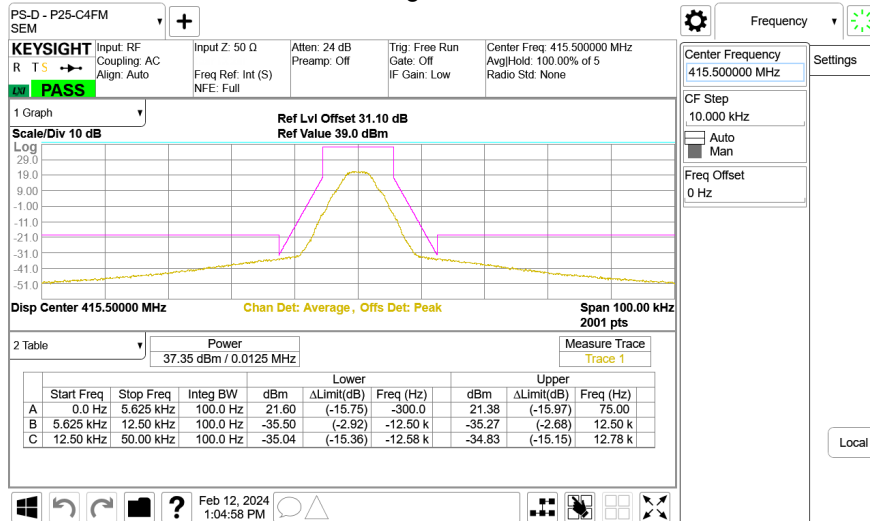
415PS CQPSK Signal at 406.1MHz ALC



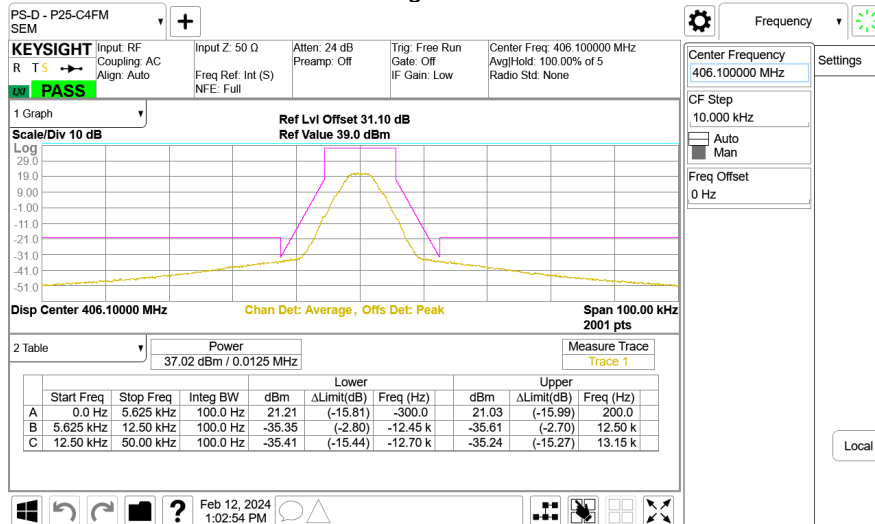
415PS C4FM Signal at 424.9MHz ALC



415PS C4FM Signal at 415.5MHz ALC



415PS C4FM Signal at 406.1MHz ALC



415PS HDQPSK Signal at 424.9MHz ALC

