



FCC PART 74 SUBPART H ISEDG RSS-123, ISSUE 5, JULY 2024

TEST REPORT

For

Lectrosonics, Inc.

581 Laser Rd. NE
Rio Rancho, NM 87124, USA

FCC ID: DBZDSSM9
IC: 8024A-DSSM9

Report Type: Original Report	Product Type: Digital Wireless Microphone Transmitter
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Report Number: R2411183-74	
Report Date: 2025-01-31	
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* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*" (Rev.2)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2411183-74	Original Report	2025-01-31

1. General Description

1.1 Product Description for Equipment Under Test (EUT)

This test report has been compiled on behalf of *Lectrosonics, Inc.* and their product model: *DSSM/E07-941* (FCC ID: DBZDSSM9, IC: 8024A-DSSM9), which henceforth is referred to as the EUT. The EUT is a Digital Wireless Microphone Transmitter. The EUT operates in the frequency range: 941.600 – 951.900 MHz, 953.100 – 956.150 MHz, and 956.550 – 959.750 MHz.

1.2 Mechanical Description of EUT

The EUT measures approximately: 6.6 cm (L) x 4.9 cm (W) x 1.7 cm (H), and weighs approximately 0.1 kg.

The data gathered are from the typical production sample provided by the Lectrosonics, Inc. with serial number 104.

1.3 Objective

The following test report was prepared on behalf of *Lectrosonics, Inc.* in accordance with Part 74, Subparts H of the Federal Communications Commission rules and RSS-123 Issue 5.

The objective was to determine compliance with Part 74 of the FCC Rules, and RSS-123 Issue 5, limits for RF output power, Operating Bandwidth & Emission Mask, Field strength at Spurious Emissions, and Frequency Stability.

1.4 Related Submittal(s)/Grant(s)

None

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI/TIA-603-E-2016, FCC KDB 971168 D01 Power Meas License Digital Systems v03r01, KDB 206256 D01v02 and ETSI EN 300 422-1 v2.2.1 (2021-11) Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Audio PMSE Equipment up to 3 GHz; Harmonised Standard for access to radio spectrum.

All tests were performed at Bay Area Compliance Laboratories Corp.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty
Occupied Channel Bandwidth	±5%
RF output power, conducted	±0.57 dB
Power Spectral Density, conducted	±1.48 dB
Unwanted Emissions, conducted	±1.57 dB
All emissions, radiated	±4.0 dB
AC power line Conducted Emission	±2.0 dB
Temperature	±2°C
Humidity	±5%
DC and low frequency voltages	±1.0%
Time	±2%
Duty Cycle	±3%

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Innovation, Science and Economic development Canada under Registration Numbers: 3062A.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0428.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:20127 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2017 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2017 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body

- - For the USA (Federal Communications Commission):

- 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
- 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
- 3- All Telephone Terminal Equipment within FCC Scope C.

- For the Canada (Innovation, Science and Economic development Canada - ISED):

- 1- All Scope 1-Licence-Exempt Radio Frequency Devices;
- 2- All Scope 2-Licensed Personal Mobile Radio Services;
- 3- All Scope 3-Licensed General Mobile & Fixed Radio Services;
- 4- All Scope 4-Licensed Maritime & Aviation Radio Services;
- 5- All Scope 5-Licensed Fixed Microwave Radio Services
- 6- All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.

For Singapore (Infocomm Media Development Authority - IMDA):

- 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IMDA MRA Recognition Scheme: 2011, Annex 2
2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IMDA MRA Recognition Scheme: 2011, Annex 2

- For the Hong Kong Special Administrative Region:

- 1 All Radio Equipment, per KHCA 10XX-series Specifications;
- 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
- 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.

- For Japan:

- 1 MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 - Terminal Equipment for the Purpose of Calls;
 - All Scope A2 - Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)
 - for Computers (ver. 6.0)
 - for Displays (ver. 6.0)
 - for Imaging Equipment (ver. 2.0)
 - for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
 - For Water Coolers (ver. 3.0)

D. A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada - ISEDC) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - o NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - o EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority - IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter
- USA:
 - o ENERGY STAR Recognized Test Laboratory – US EPA
 - o Telecommunications Certification Body (TCB) – US FCC;
 - o Nationally Recognized Test Laboratory (NRTL) – US OSHA
- Vietnam: APEC Tel MRA -Phase I;

2. EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI/TIA-603-E-2016, ANSI C63.26-2015, KDB 971168 D01 v03r01, and ETSI EN 300 422-1 v2.2.1 (2021-11).

2.2 EUT Exercise Software

EUT configurations were managed via an integrated menu within the device. Options to change the frequency and power were displayed on the screen of the EUT.

Mode	Channel	Frequency (MHz)	Power Setting
D2	Low	941.600	50mW
	Middle	946.750	
	High	951.900	
	Low	953.100	
	High	956.150	
	Low	956.550	
	High	959.750	
HDM	Low	941.600	4mW
	Middle	946.750	
	High	951.900	
	Low	953.100	
	High	956.150	
	Low	956.550	
	High	959.750	

2.3 Special Equipment

No special equipment was used during testing.

2.4 Equipment Modifications

No modifications were made to the EUT during testing.

2.5 Local Support Equipment

None

2.6 Remote Support Equipment

None

2.7 Power Supply and Line Filters

Manufacturer	Description	Model	Serial Number
Lectrosonics, Inc.	Lithium Ion Battery Pack	LB-50	-

2.8 Interface Ports and Cables

None

3. Summary of Test Results

FCC & ISEDC Rules	Descriptions of Test	Result(s)
FCC 2.1093 ISEDC RSS-102	RF Exposure	Compliant ¹
FCC §74.861 (d)(1) RSS-123 Section 5.2	RF Output Power	Compliant
FCC §2.1049 FCC §74.861 (d)(4)(ii) RSS-123 Section 5.2 & 5.3 ETSI EN 300 422-1 (4.2.4.2.2)	Operating Bandwidth & Emission Mask	Compliant
FCC §74.861 (d)(4)(iv) RSS-123 Section 5.3 ETSI EN 300 422-1 (4.2.4.1.2)	Spurious Emissions at the Antenna Port	Compliant
FCC §74.861 (d)(4)(iv) RSS-123 Section 5.3 ETSI EN 300 422-1 (4.2.4.1.2)	Field Strength of Spurious Emissions	Compliant
FCC §2.1055 RSS-123 Section 5.2	Frequency Stability	Compliant

Note¹: Please refer to SAR test report for test results.

BACL is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Information provided by the customer, e.g., antenna gain, can affect the validity of results.

4. FCC §74.861 (d)(1) & RSS-123 Section 5.2 – RF Output Power

4.1 Applicable Standards

According to FCC 74.861 (d)(1):

For all bands except the 1435-1525 MHz band, the maximum transmitter power which will be authorized is 1 watt. In the 1435-1525 MHz band, the maximum transmitter power which will be authorized is 250 milliwatts. Licensees may accept the manufacturer's power rating; however, it is the licensee's responsibility to observe specified power limits.

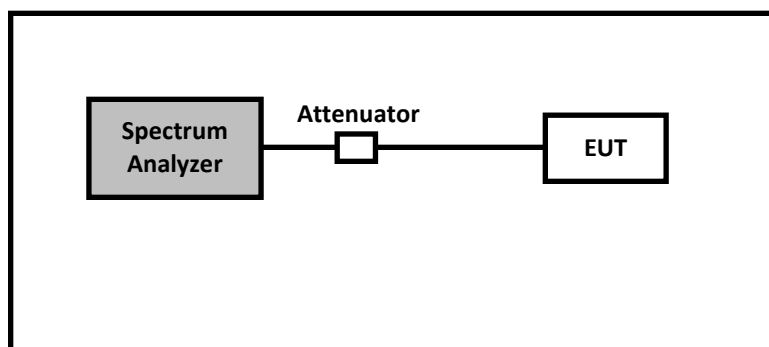
According to RSS-123:

Table 1: Specifications for wireless microphones other than WMAS				
Frequency band (MHz)	Conducted power (W)	e.r.p. (W)	Authorized bandwidth (kHz)	Frequency stability (± ppm)
26.10-26.48	—	1	200	50
88-107.5	—	1	200	50
150-174	0.05	—	54	50
450-451	—	1	200	50
455-456	—	1	200	50
941.5-952	1	—	200	20
953-959.85	1	—	200	20
6930-6955	1	—	600	10
7100-7125	1	—	600	10

4.2 Test Procedure

Please refer to KDB 971168 D01 v03r01 Section 5.

4.3 Test Setup Block Diagram



4.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
-	-	10dB Attenuator	-	-	Each time ¹	Each time ¹
-	-	RF Cable	-	-	Each time ¹	Each time ¹

Note¹: cable and attenuator included in the test set-up were checked each time before testing.

Statement of Traceability: **BACL Corp.** attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.

4.5 Test Environmental Conditions

Temperature:	17 °C
Relative Humidity:	51.3 %
ATM Pressure:	101.5 kPa

The testing was performed by Arturo Reyes on 2025-01-29 at RF test site.

4.6 Test Results

Mode	Channel	Frequency (MHz)	Conducted Output Power (dBm)	Conducted Output Power (mW)	Conducted Output Power Limit (mW)	Result
D2	Low	941.600	16.14	41.11	< 1000	Pass
	Middle	946.750	16.44	44.06	< 1000	Pass
	High	951.900	16.19	41.59	< 1000	Pass
	Low	953.100	16.25	42.17	< 1000	Pass
	High	956.150	16.40	43.65	< 1000	Pass
	Low	956.550	16.29	42.56	< 1000	Pass
	High	959.750	16.50	44.67	< 1000	Pass
HDM	Low	941.600	6.35	4.32	< 1000	Pass
	Middle	946.750	6.11	4.08	< 1000	Pass
	High	951.900	6.23	4.20	< 1000	Pass
	Low	953.100	6.06	4.04	< 1000	Pass
	High	956.150	6.37	4.34	< 1000	Pass
	Low	956.550	6.34	4.31	< 1000	Pass
	High	959.750	6.42	4.39	< 1000	Pass

5. FCC §2.1049, FCC §74.861(d)(4)(ii), RSS-123 Section 5.2 & 5.3 & ETSI EN 300 422-1 (4.2.4.2.2) – Occupied Bandwidth & Emission Mask

5.1 Applicable Standards

According to FCC §74.861 (d)(4)(ii):

Emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask in Figure 2 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

According to RSS-123 Section 5.2:

Table 1: Specifications for wireless microphones other than WMAS				
Frequency band (MHz)	Conducted power (W)	e.r.p. (W)	Authorized bandwidth (kHz)	Frequency stability ($\pm$ ppm)
26.10-26.48	—	1	200	50
88-107.5	—	1	200	50
150-174	0.05	—	54	50
450-451	—	1	200	50
455-456	—	1	200	50
941.5-952	1	—	200	20
953-959.85	1	—	200	20
6930-6955	1	—	600	10
7100-7125	1	—	600	10

According to RSS-123 Section 5.3 (d):

For wireless microphones other than WMAS using digital modulation operating in the 941.5-952 MHz, 953-959.85 MHz, 6930-6955 MHz and 7100-7125 MHz bands, emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the channel frequency, where B is the channel bandwidth, shall comply with the emission mask specified in figure 2 of section 4.2.4.2.2 of ETSI EN 300 422-1.

According to ETSI EN 300 422-1 V2.2.1 (2021-11) Section 4.2.4.2.2:

The following limits are applicable, where B is the Declared Channel Bandwidth.

The mean Power Density, measured with 1 kHz measurement bandwidth and RMS detector, of the transmitter unwanted emissions shall not exceed the limits of the masks provided in figure 1 for equipment employing analogue modulation and figure 2 for equipment employing digital modulation, but excluding WMAS.

The limits in figures 1 and 2 are relative to the transmitter RF output power according to clauses 4.2.1 and 5.4.1.

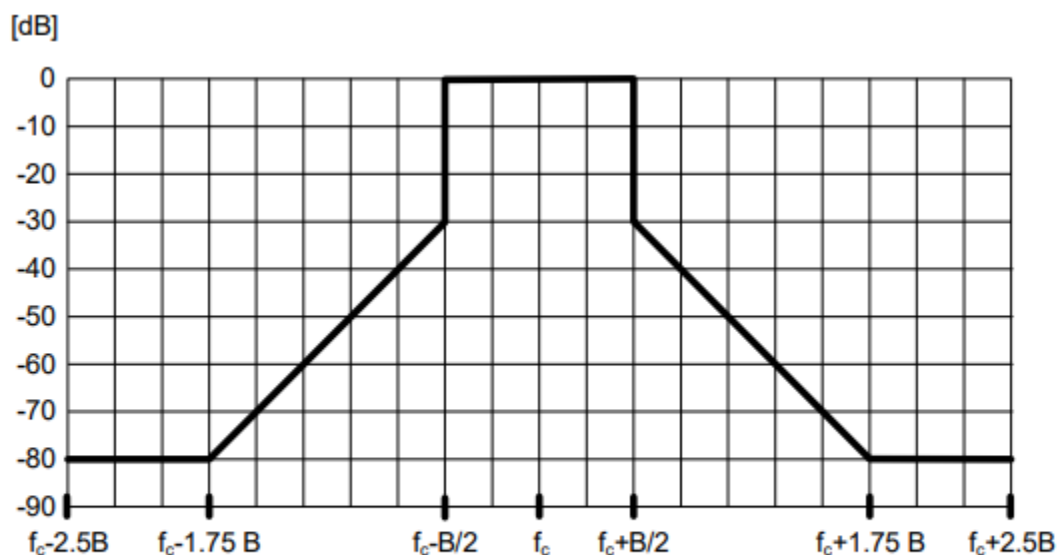


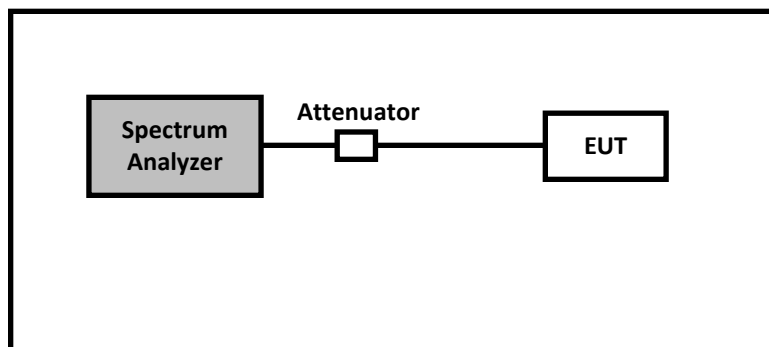
Figure 2: Transmit spectral power mask for equipment employing digital modulation, except WMAS, RBW = 1 kHz

5.2 Test Procedure

For OBW measurement, please refer to KDB 971168 D01 v03r01 Section 4.

For Emission mask measurement, please refer to ETSI EN 300 422-1 V2.2.1 (2021-11) Section 5.4.3.

5.3 Test Setup Block Diagram



5.4 Test Equipment List and Details

BACL No.	Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Interval
624	Agilent	Spectrum Analyzer	E4446A	MY48250238	2024-06-14	1 year
912	Rohde & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2024-07-25	1 year
-	-	10dB Attenuator	-	-	Each time ¹	Each time ¹
-	-	RF Cable	-	-	Each time ¹	Each time ¹

Note¹: cable and attenuator included in the test set-up were checked each time before testing.

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.

5.5 Test Environmental Conditions

Temperature:	17 to 19 °C
Relative Humidity:	47.2 to 51.7 %
ATM Pressure:	101.2 to 101.7 kPa

The testing was performed by Arturo Reyes from 2025-01-29 to 2025-01-30 at RF test site.

5.6 Test Results

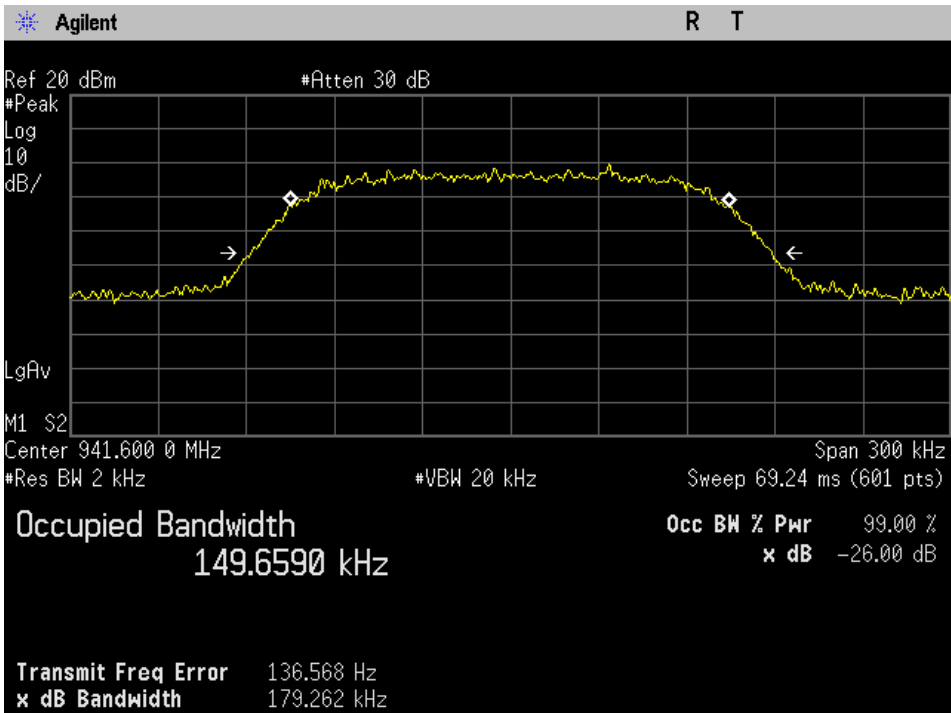
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	99% Occupied Bandwidth Limit (kHz)	Result
D2	Low	941.600	149.659	< 200	Pass
	Middle	946.750	150.922	< 200	Pass
	High	951.900	150.171	< 200	Pass
	Low	953.100	149.674	< 200	Pass
	High	956.150	150.106	< 200	Pass
	Low	956.550	149.962	< 200	Pass
	High	959.750	150.163	< 200	Pass
HDM	Low	941.600	99.709	< 200	Pass
	Middle	946.750	99.291	< 200	Pass
	High	951.900	100.196	< 200	Pass
	Low	953.100	99.600	< 200	Pass
	High	956.150	99.379	< 200	Pass
	Low	956.550	99.561	< 200	Pass
	High	959.750	99.649	< 200	Pass

Emission Mask Test Result: Pass

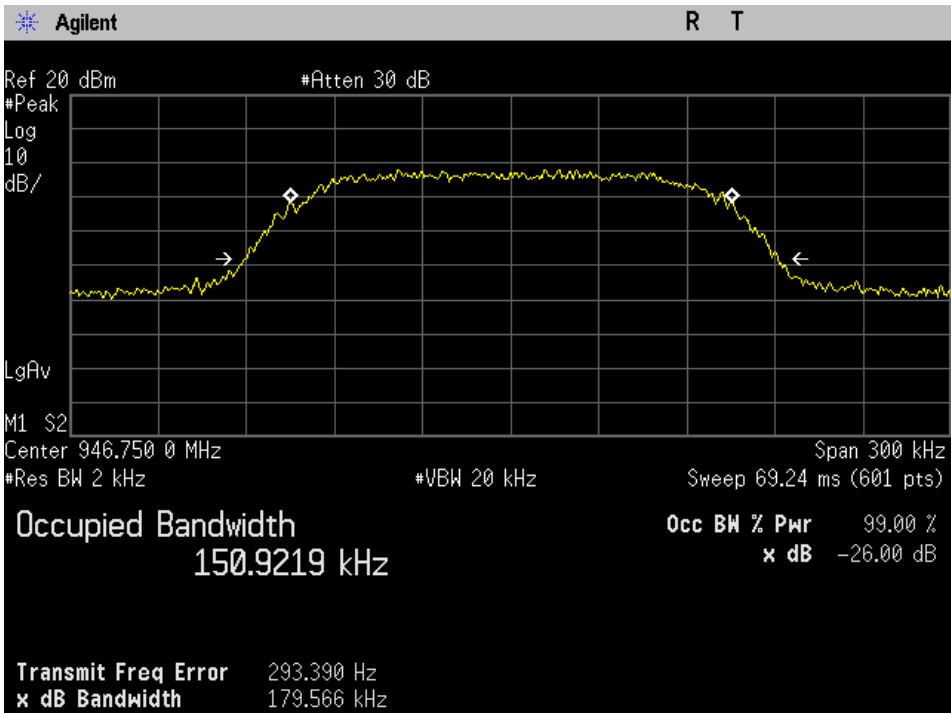
Please refer to Section 5.7 & 5.8 for detailed Occupied Bandwidth and Emission Mask plots, respectively.

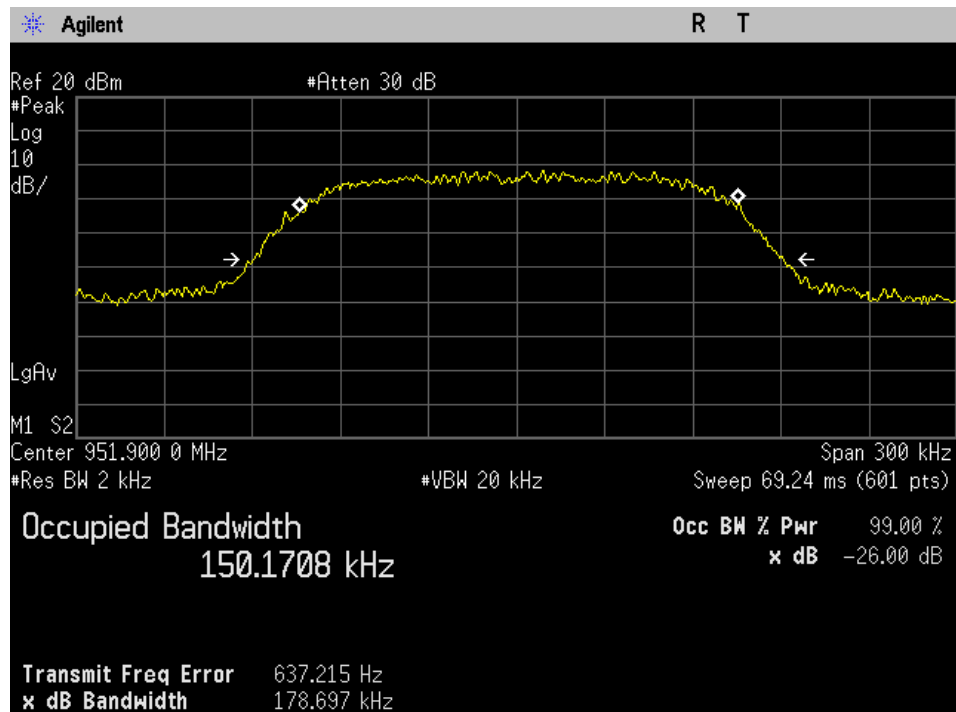
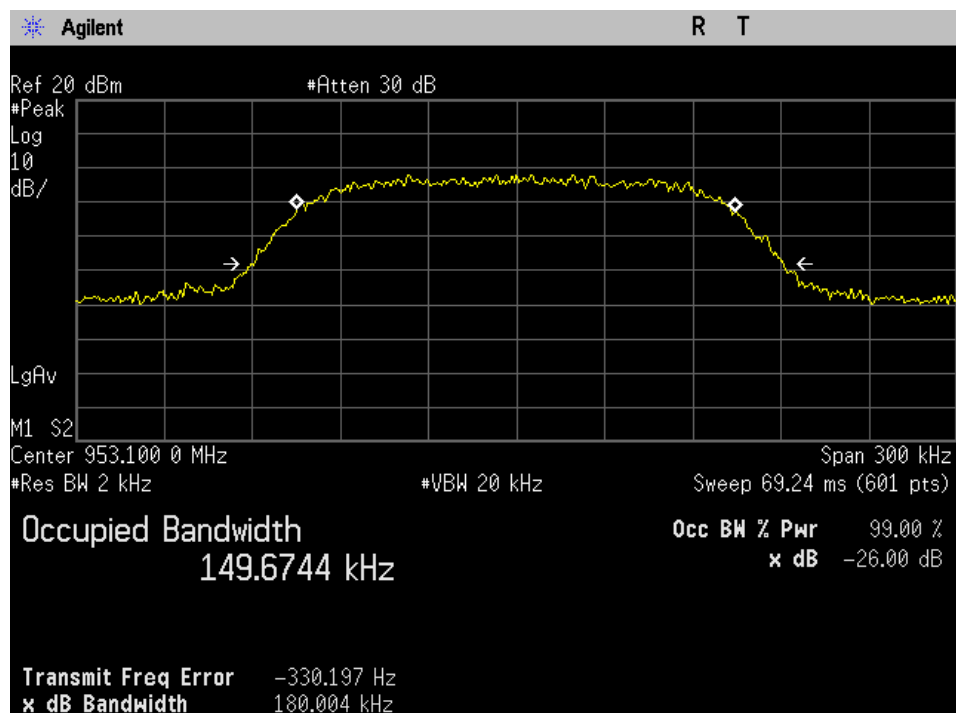
5.7 Occupied Bandwidth Plots

D2 mode: 941.600 MHz, 99% OBW

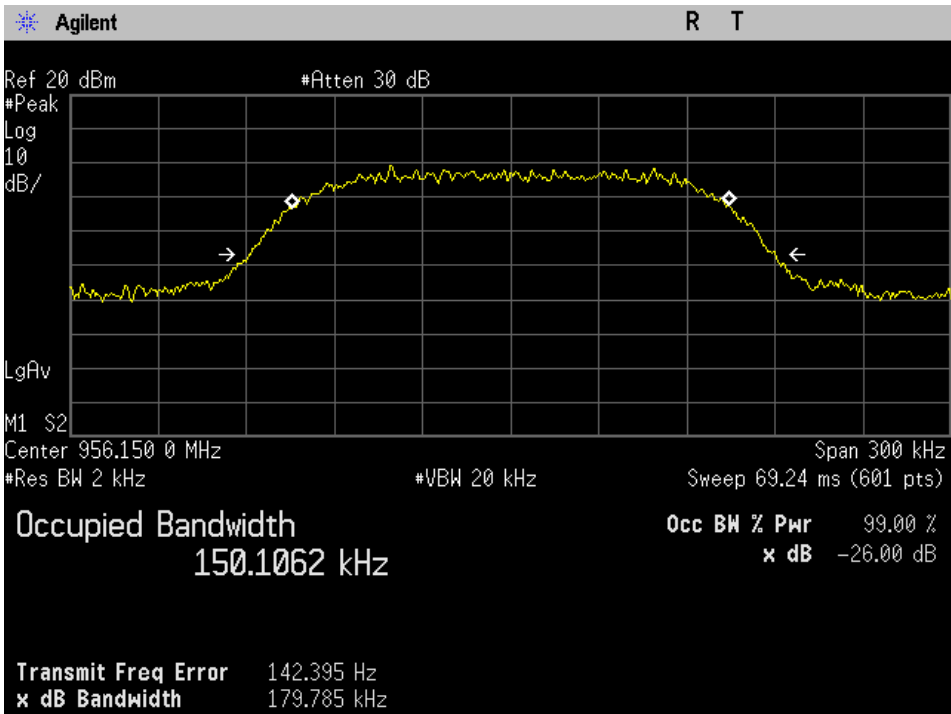


D2 mode: 946.750 MHz, 99% OBW

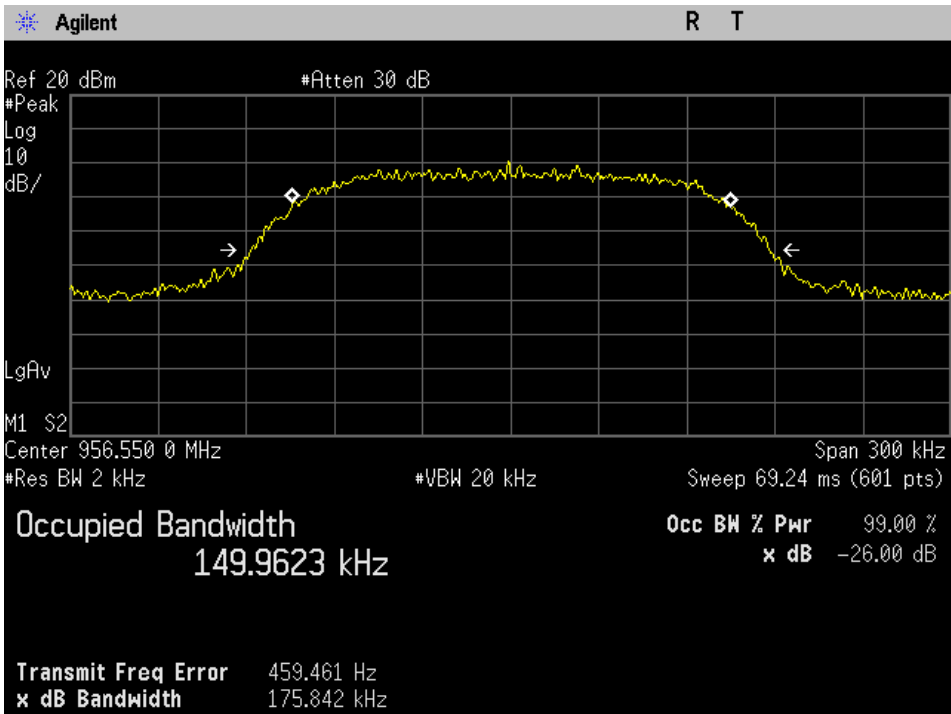


D2 mode: 951.900 MHz, 99% OBW**D2 mode: 953.100 MHz, 99% OBW**

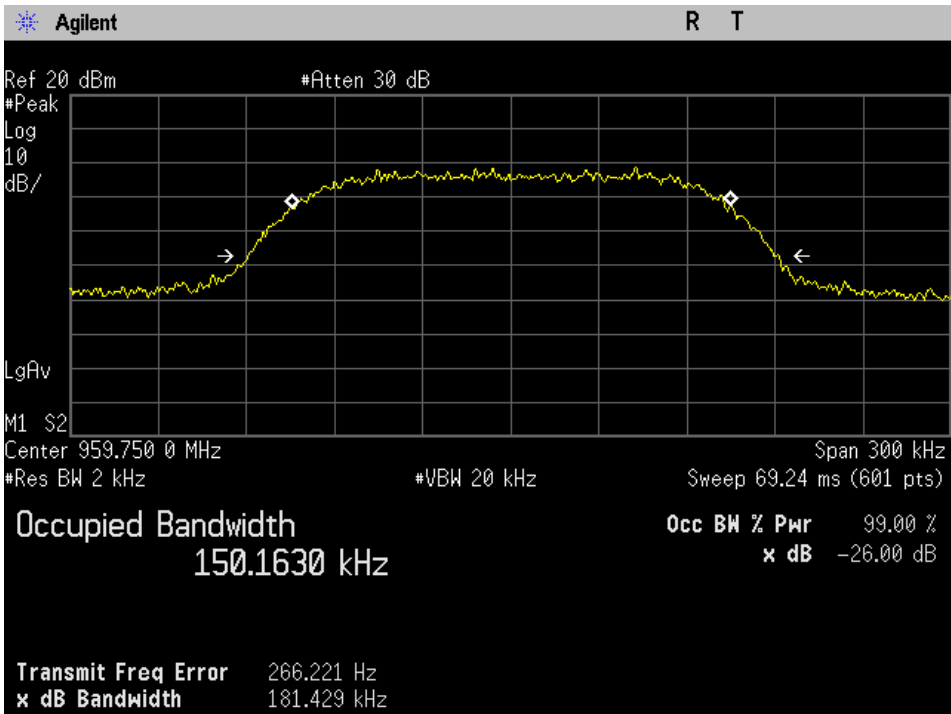
D2 mode: 956.150 MHz, 99% OBW



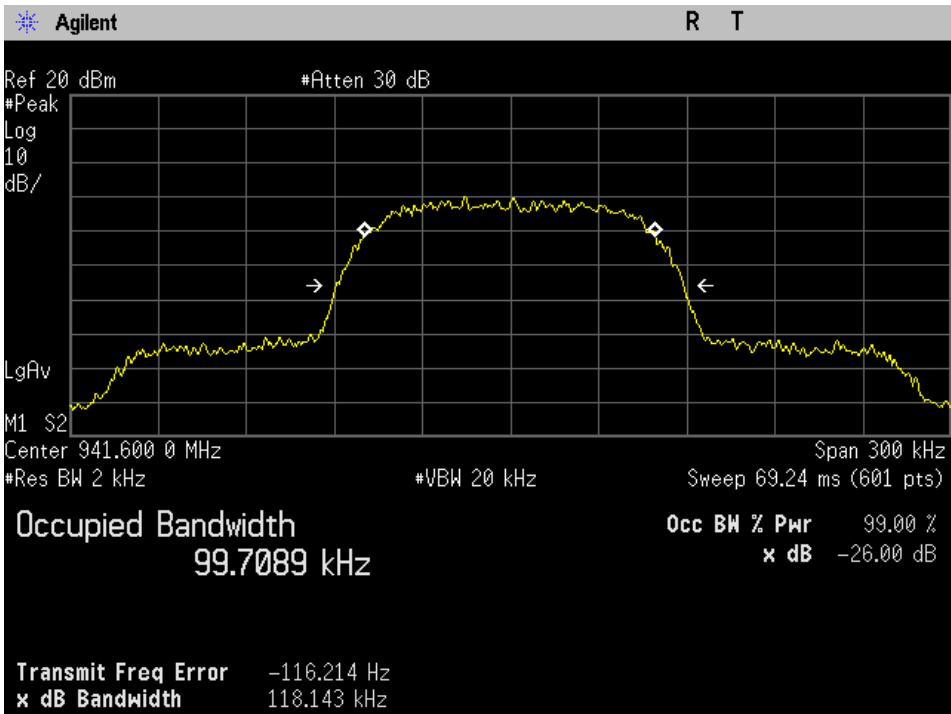
D2 mode: 956.550 MHz, 99% OBW

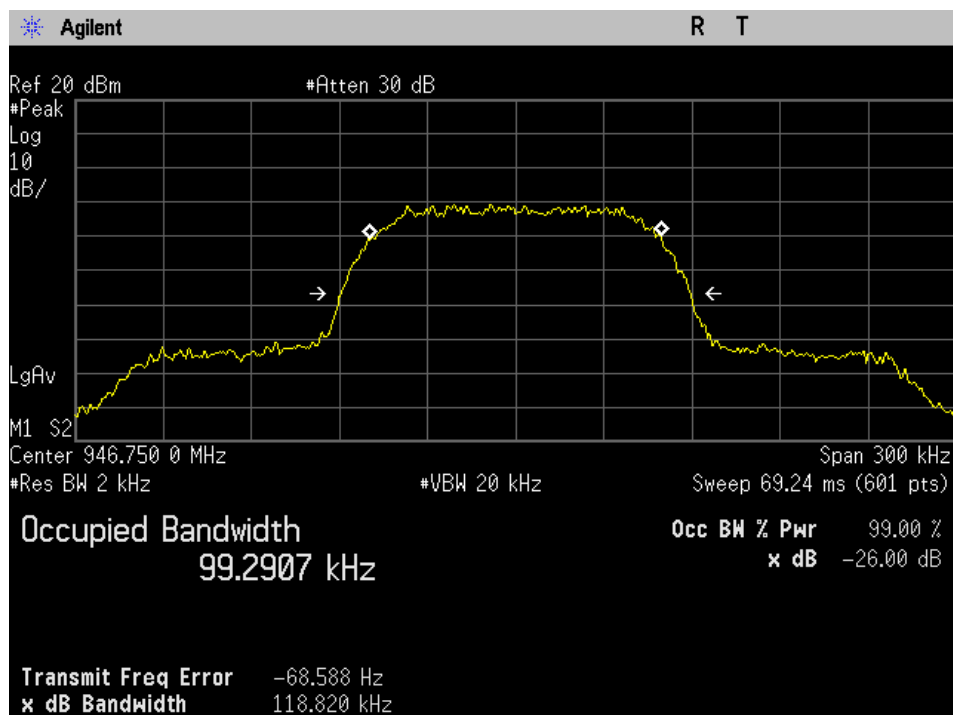
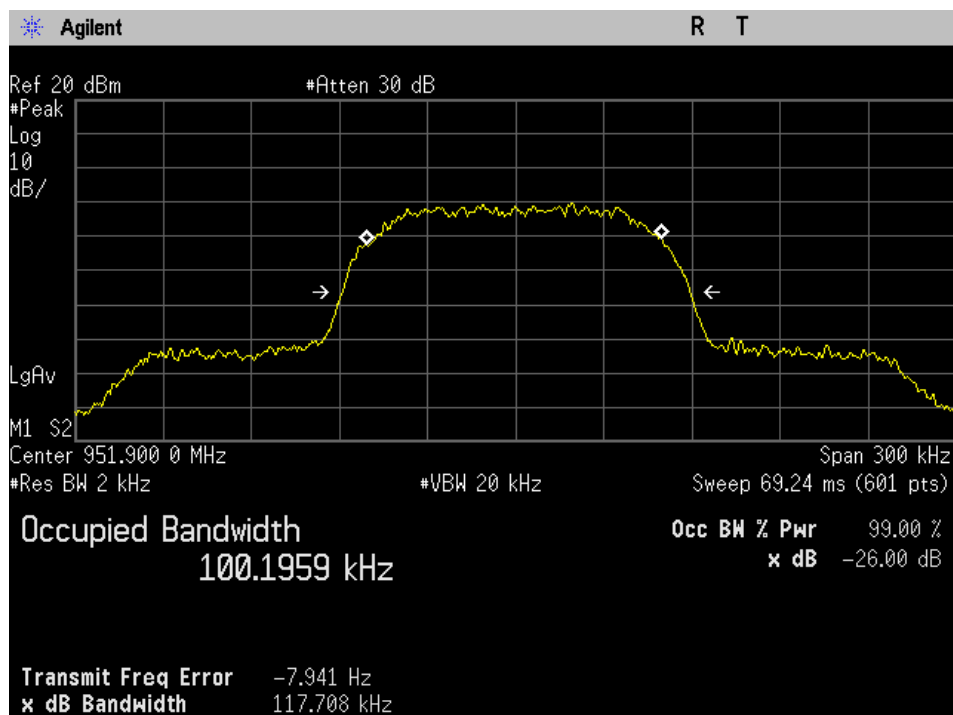


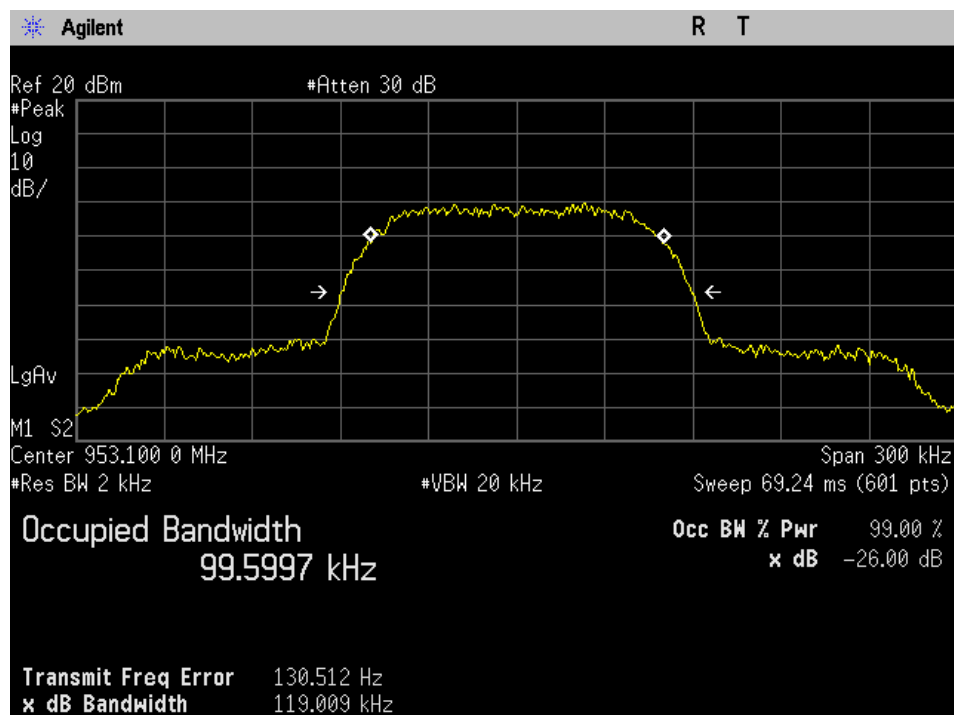
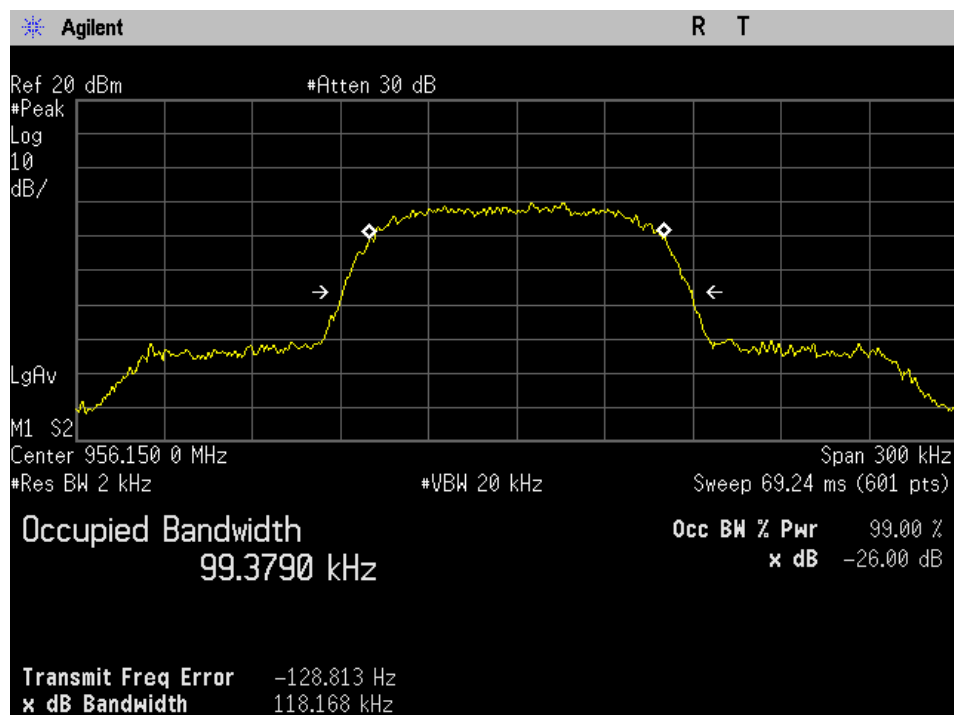
D2 mode: 959.750 MHz, 99% OBW



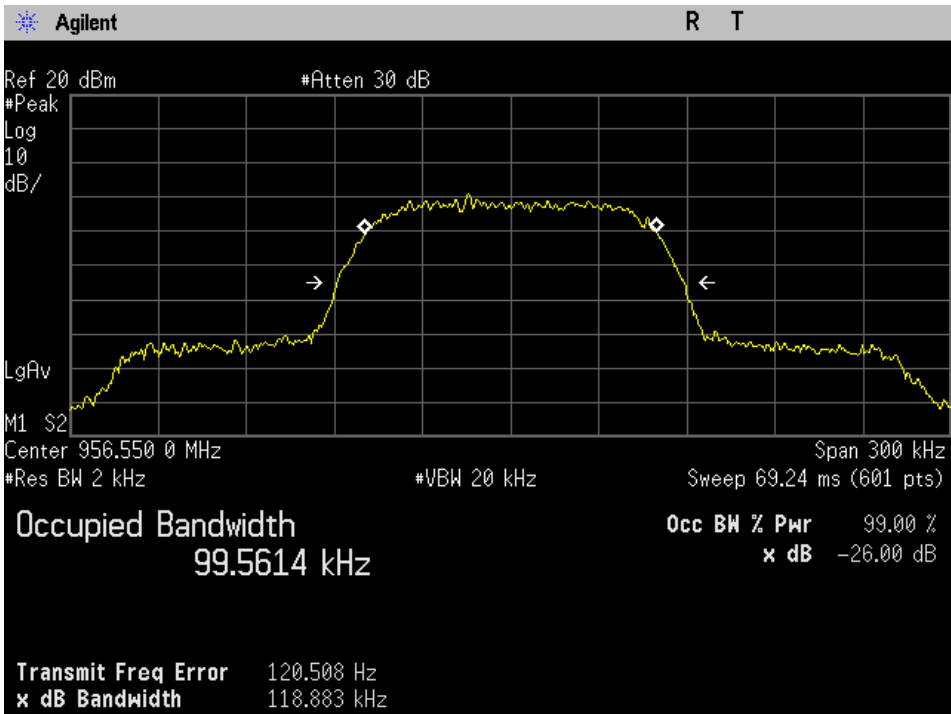
HDM mode: 941.600 MHz, 99% OBW



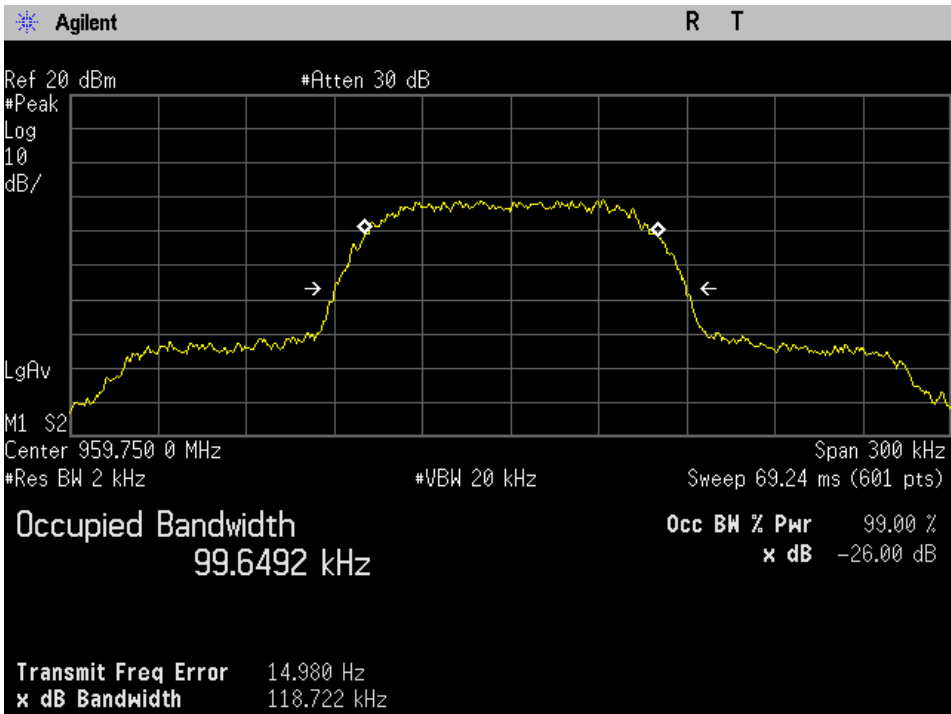
HDM mode: 946.750 MHz, 99% OBW**HDM mode: 951.900 MHz, 99% OBW**

HDM mode: 953.100 MHz, 99% OBW**HDM mode: 956.150 MHz, 99% OBW**

HDM mode: 956.550 MHz, 99% OBW

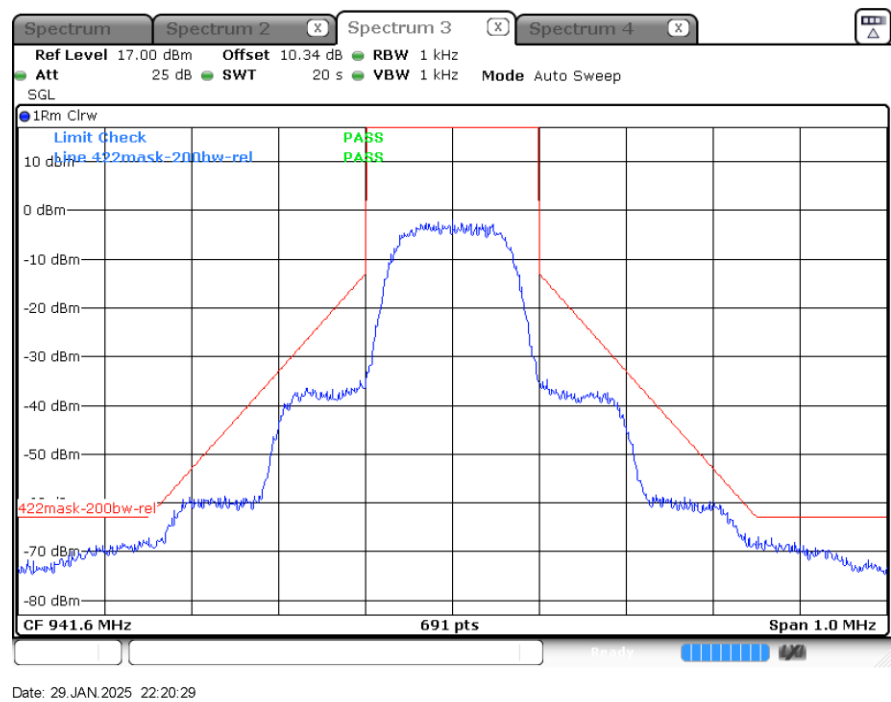


HDM mode: 959.750 MHz, 99% OBW

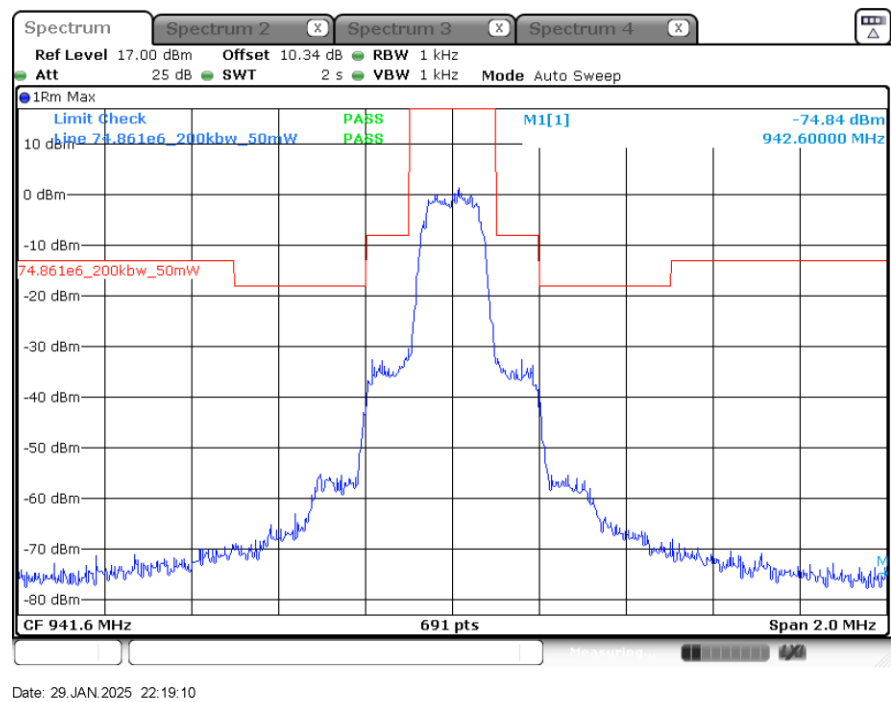


5.8 Emission Mask Plots

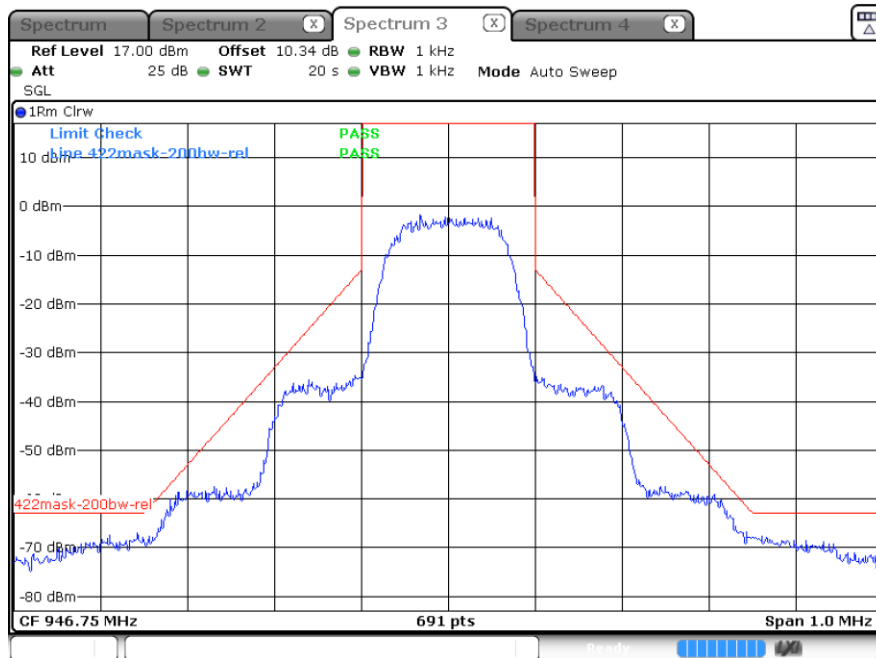
D2 mode: 941.600 MHz, Emission Mask (1)



D2 mode: 941.600 MHz, Emission Mask (2)

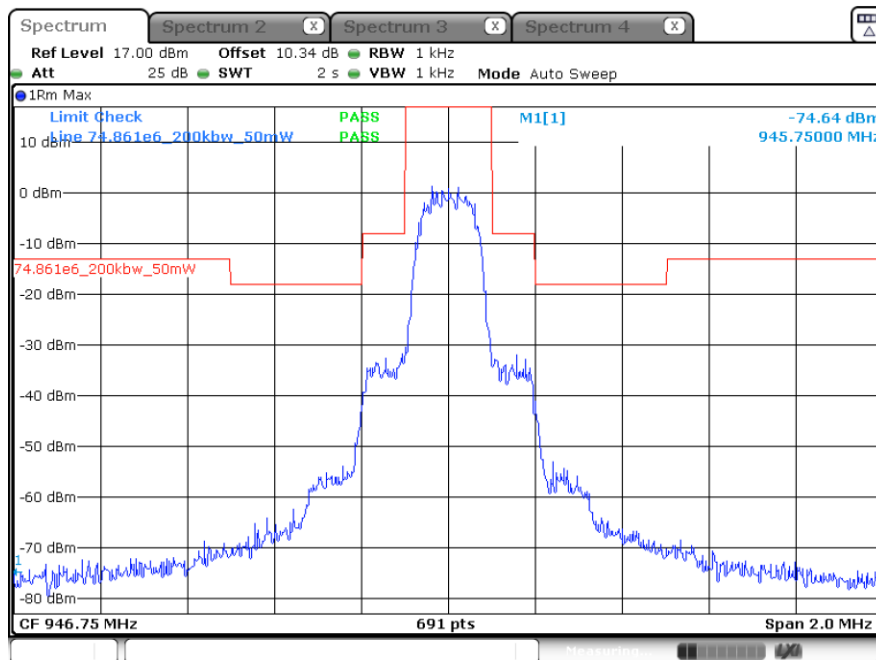


D2 mode: 946.750 MHz, Emission Mask (1)



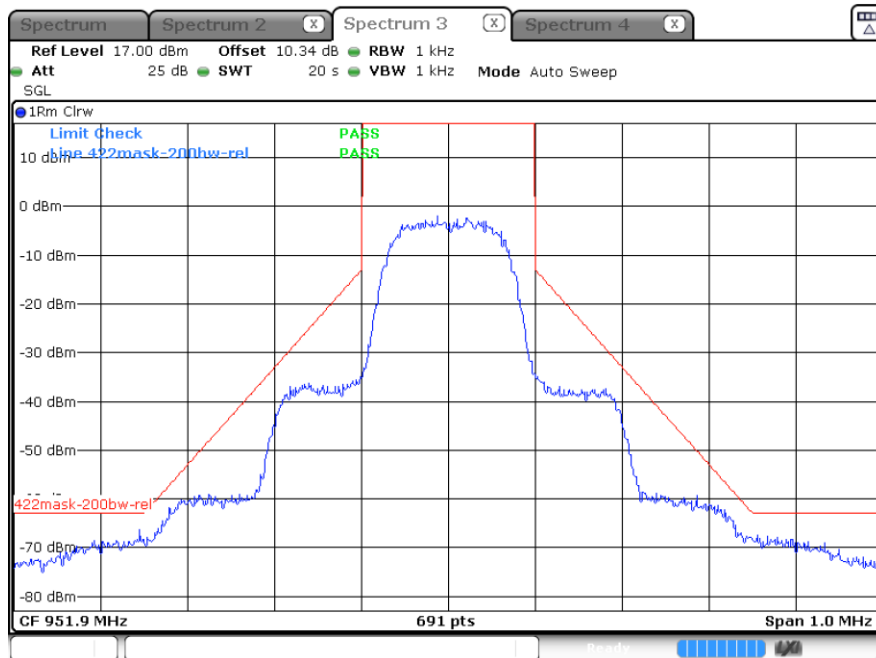
Date: 29 JAN 2025 22:23:15

D2 mode: 946.750 MHz, Emission Mask (2)



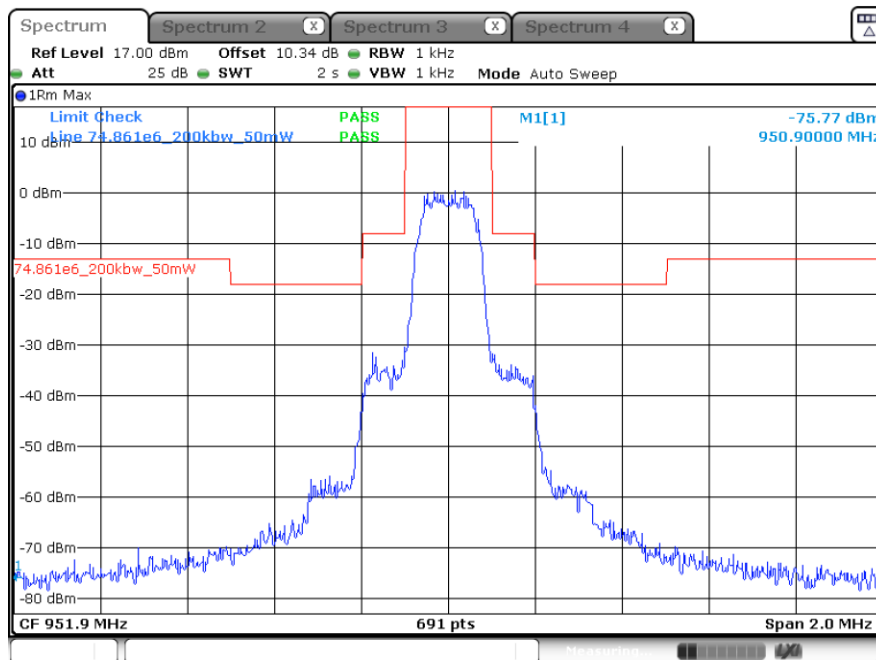
Date: 29 JAN 2025 22:24:00

D2 mode: 951.900 MHz, Emission Mask (1)



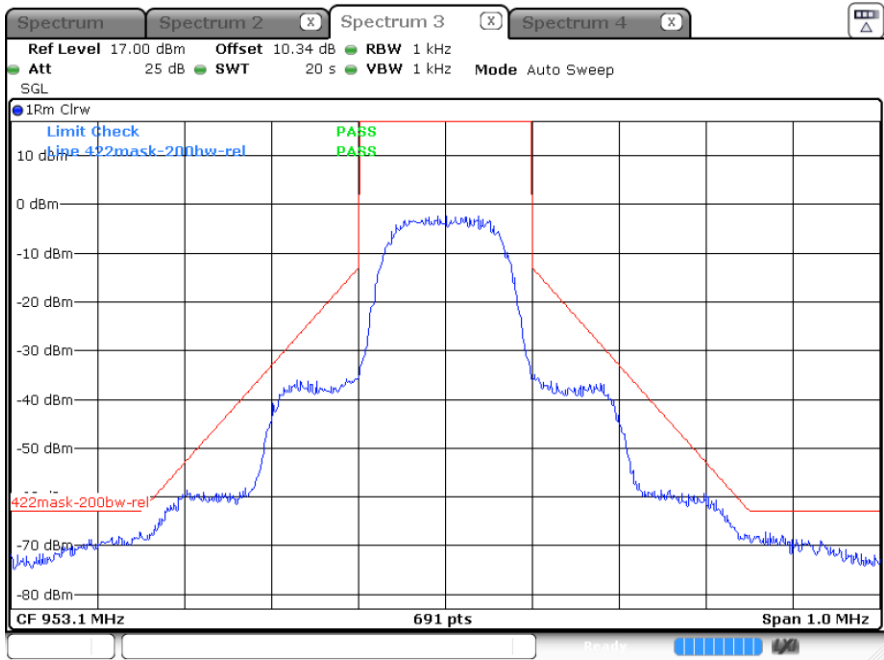
Date: 29 JAN 2025 22:35:09

D2 mode: 951.900 MHz, Emission Mask (2)



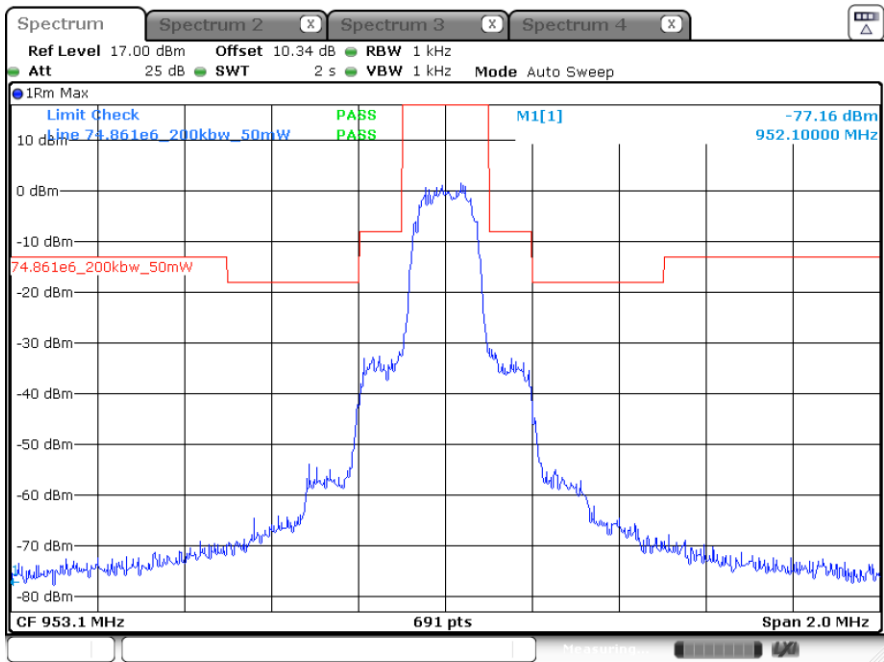
Date: 29 JAN 2025 22:35:54

D2 mode: 953.100 MHz, Emission Mask (1)



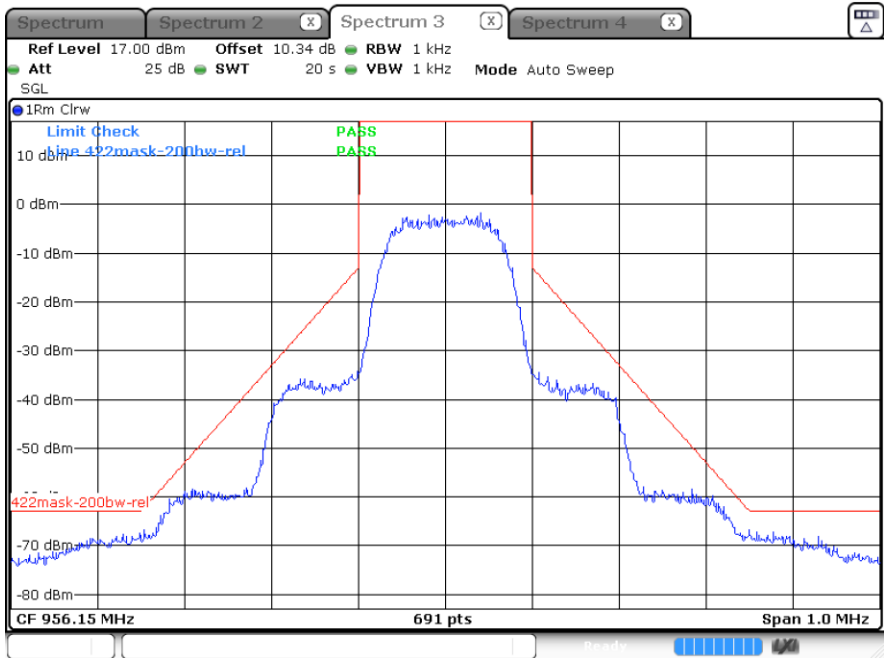
Date: 29. JAN.2025 22:38:17

D2 mode: 953.100 MHz, Emission Mask (2)



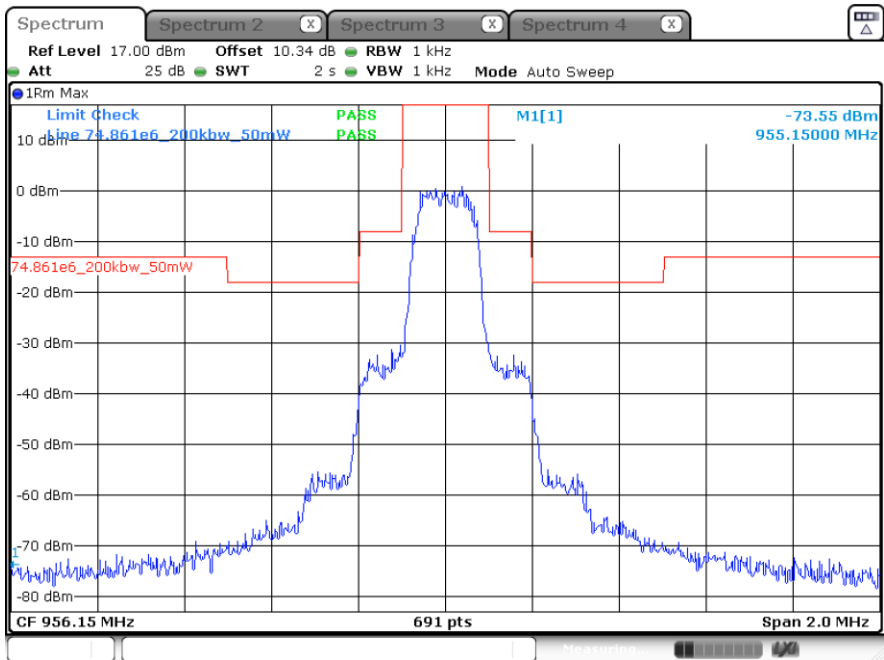
Date: 29. JAN.2025 22:37:02

D2 mode: 956.150 MHz, Emission Mask (1)



Date: 29 JAN.2025 22:44:01

D2 mode: 956.150 MHz, Emission Mask (2)



Date: 29 JAN.2025 22:44:42