RHEIN TECH LABORATORIES, INC.

Engineering Solutions & Electromagnetic Compatibility Services

FCC & ISED Certification Report

Harris Corporation
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Contact: Thomas Camper
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Model: XL-400P
7/8/VHF Portable Land Mobile Radio

FCC ID: OWDTR-0165-E
IC: 3636B-0165

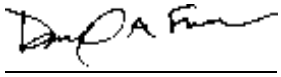
April 6, 2021

Standards Referenced for this Report	
Part 2: 2019	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
Part 15: 2019	Radio Frequency Devices
Part 22: 2019	Public Mobile Services
Part 74: 2019	Experimental Radio, Auxiliary, Special Broadcast and Other Program Distributional Services
Part 80: 2019	Stations In The Maritime Services
Part 90: 2019	Private Land Portable Radio Services
ANSI C63.26-2017	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
RSS-119 Issue 12	Land Mobile and Fixed Radio Transmitters and Receivers 27.41 to 960.0 MHz

Report Prepared By: Daniel W. Baltzell

Document Number: 2021049TNF

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described in this test report. No modifications were made to the equipment during testing in order to achieve compliance with these standards. Furthermore, there was no deviation from, additions to, or exclusions from the standards referenced above.

Signature: 

Date: April 6, 2021

Typed/Printed Name: Desmond A. Fraser

Position: President

These tests are accredited and meet the requirements of ISO/IEC 17025 as verified by ANAB. Refer to certificate and scope of accreditation AT-1445.

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Conducted Output Power (W)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	22, 74, 80	136 – 174	6.0	0.1	16K0F3E	Analog FM (Wideband)
EF	22, 74, 80	378 – 406.0	5.0	0.1	16K0F3E	
EF	22, 74, 80	406.1 - 522	5.0	0.1	16K0F3E	
EF	90	763 – 775	3.0	0.1	16K0F3E	
EF	90	793 – 805	3.0	0.1	16K0F3E	
EF	90	806 – 825	3.0	0.1	16K0F3E	
EF	90	851 – 870	3.0	0.1	16K0F3E	
EF	22, 74, 80	136 – 174	6.0	0.1	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	16K0F1D/E	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	16K0F1D/E	
EF	90	763 – 775	3.0	0.1	16K0F1D/E	
EF	90	793 – 805	3.0	0.1	16K0F1D/E	
EF	90	806 – 825	3.0	0.1	16K0F1D/E	
EF	90	851 – 870	3.0	0.1	16K0F1D/E	
EF	90	806 – 825	3.0	0.1	14K0F3E	Analog FM (NPSPAC)
EF	90	851 – 870	3.0	0.1	14K0F3E	
EF	90	806 – 825	3.0	0.1	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	90	851 – 870	3.0	0.1	14K0F1D/E	
EF, ES	22, 74, 80, 90	136 – 174	6.0	0.1	11K0F3E	Analog FM (Narrowband)
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	11K0F3E	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	11K0F3E	
EF	90	763 – 775	3.0	0.1	11K0F3E	
EF	90	793 – 805	3.0	0.1	11K0F3E	
EF	90	806 – 825	3.0	0.1	11K0F3E	
EF	90	851 – 870	3.0	0.1	11K0F3E	
EF, ES	22, 74, 80, 90	136 – 174	6.0	0.1	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	11K7F1D/E	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	11K7F1D/E	
EF	90	763 – 775	3.0	0.1	11K7F1D/E	
EF	90	793 – 805	3.0	0.1	11K7F1D/E	
EF	90	806 – 825	3.0	0.1	11K7F1D/E	
EF	90	851 – 870	3.0	0.1	11K7F1D/E	
EF, ES	22, 74, 80, 90	136 – 174	6.0	0.1	7K10F1D/E	2-level FSK 4800 Data/Digital Voice (XNarrowband)
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	7K10F1D/E	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	7K10F1D/E	

EF, ES	22, 74, 80, 90	136 – 174	6.0	0.1	8K40F1D/E	C4FM Data/Voice
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	8K40F1D/E	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	8K40F1D/E	
EF	90	763 – 775	3.0	0.1	8K40F1D/E	
EF	90	793 – 805	3.0	0.1	8K40F1D/E	
EF	90	806 – 825	3.0	0.1	8K40F1D/E	
EF	90	851 – 870	3.0	0.1	8K40F1D/E	
EF, ES	22, 74, 80, 90	136 – 174	6.0	0.1	8K10DXW	H-CPM (TDMA) Data/Voice
EF, ES	22, 74, 80, 90	378 – 406.0	5.0	0.1	8K10DXW	
EF, ES	22, 74, 80, 90	406.1 – 522	5.0	0.1	8K10DXW	
EF	90	763 – 775	3.0	0.1	8K10DXW	
EF	90	793 – 805	3.0	0.1	8K10DXW	
EF	90	806 – 825	3.0	0.1	8K10DXW	
EF	90	851 – 870	3.0	0.1	8K10DXW	
EF	90	806 – 825	3.0	0.1	18K5F1W	HVD-SMR
EF	90	851 – 870	3.0	0.1	18K5F1W	
EF	90	806 – 825	3.0	0.1	12K9F1W	HVD-NPSPAC
EF	90	851 – 870	3.0	0.1	12K9F1W	

**low power itinerant channels are limited to 2 W ERP.*

This device contains functions that are not operational in U.S Territories except as noted in the filing. The grant is requested to list extended frequencies as noted in the filing and Section 2.927(b) applies to this application.

Additionally, as this is a combined FCC and ISED test report, there are test frequencies contained within this report that may not be authorized for use in either the United States or Canada.

UHF band data is for engineering use only, and not applicable to the current equipment authorization application.

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1 Test Summary

Test	FCC Reference	ISED Reference	Result
RF Power Output	2.1046(a), 90.541(d), 90.205, 90.635, 90.542(a)(7); 80.215, 74.461, 22.565, 22.659	RSS-119 4.1, 5.4	Complies
Spurious Emissions at Antenna Terminals	2.1051, 22.359, 74.462, 80.211, 90.210	RSS-119 5.5, 5.8	Complies
Field Strength of Spurious Radiation	2.1053(a), 22.359, 80.211(f)(3), 90.210, 90.543(f)(3)	RSS-119 5.5, 5.8	Complies
Occupied Bandwidth/ Emission Masks	2.1049(c)(1), 22.359(b), 74.462, 80.205, 80.211, 90.210	RSS-119 5.5, 5.8	Complies
Adjacent Channel Power	90.543	RSS-119 4.3	Complies
Frequency Stability vs. Temperature and Voltage	2.1055, 22.355, 74.464, 80.209, 90.213, 90.539	RSS-119 5.3	Complies
Modulation Characteristics	2.1047(a)(b), 74.463, 80.213	RSS-119 5.2	Complies
Transient Frequency Response	74.462(c), 90.214	RSS-119 5.9	N/A

2 General Information

The following certification report is prepared on behalf of **L3Harris** in accordance with the Federal Communications Commission. The Equipment Under Test (EUT) was the **XL Fire Radio XL-400P,** FCC ID: OWDTR-0165-E, IC: 3636B-0165.

All measurements contained in this application were conducted in accordance with the applicable sections of FCC Rules and Regulations CFR 47 Parts 2 and 90. Calibration checks are performed regularly on the instruments, and all accessories including high pass filter, coaxial attenuator, preamplifier and cables.

2.1 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the parking lot of Rhein Tech Laboratories, Inc. 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report submitted to, and approved by, the Federal Communications Commission to perform AC line conducted and radiated emissions testing.

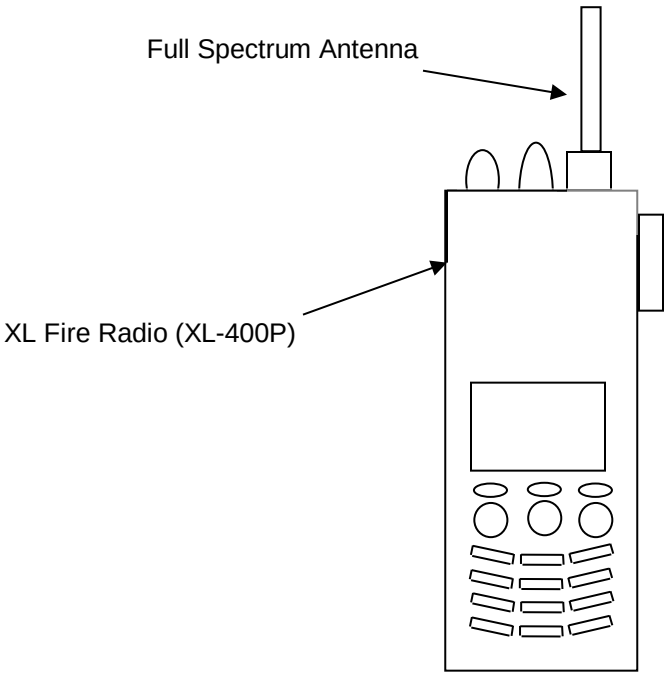
2.2 Tested System Details

The test sample was received on February 4, 2021. Listed below are the identifiers and descriptions of all equipment, cables, and internal devices used with the EUT for this test, as applicable. The device was programmed for multiple modes of operation and modulation types.

Table 2-1: Equipment Under Test (EUT)

Part	Manufacturer	Model	PN/SN	RTL Bar Code
Radio	L3Harris	XL-400P	FR EVM 012	23791
Antenna, Flex, Helical, Xtrm, 136-870 MHz	L3Harris	14100-4300-01	60	23792
Battery, Li-Ion, FGD	L3Harris	14100-4000-01	24	N/A
Battery, Li-Ion, FGD	L3Harris	14100-4000-01	52	N/A

Figure 2-1: Configuration of Tested System



3 FCC Part 2.1033(C)(8): Voltages and Currents through the Final Amplifying Stage

7.2VDC / 1.6 A

4 FCC Part 2.1046(a): RF power output: Conducted; Parts 90.205, 90.635, and 90.541(d) Transmitting power and antenna height requirements; §90.542(a)(7): Broadband Transmitting Power Limits; §80.215: Transmitter Power; §22.565: Transmitting power limits; §22.659: Effective Radiated Power Limits; Part 74.461: Transmitter Power; ISED RSS-119 4.1: Transmitter Output Power

4.1 Test Procedure

ANSI C63-26, section 5.2

The EUT was connected to a coaxial attenuator having a 50 Ω load impedance.

Manufacturer's Rated Power: VHF: 6.0 W; UHF: 5.0 W; 700 MHz band: 3.0 W; 800 MHz band: 3.0 W

4.2 Test Data

Table 4-1: RF Conducted Output Power - Measured

Frequency (MHz)	Power (dBm)	Power (W)
136.0125	38.2	6.5
138.0125	38.1	6.5
141.0125	38.0	6.4
143.9875	38.1	6.5
148.0125	38.2	6.6
150.0125	38.2	6.6
156.8000	38.2	6.7
162.0125	38.3	6.7
173.9875	38.1	6.5
378.0125	37.3	5.4
406.1125	37.5	5.6
418.0000	37.4	5.5
429.9875	37.4	5.5
450.0125	37.4	5.5
453.9875	37.4	5.5
456.0125	37.4	5.6
459.0250	37.4	5.6
459.9750	37.5	5.6
469.9875	37.5	5.7
511.9875	37.2	5.3
521.9875	37.2	5.2
763.0000	34.3	2.7
768.0125	34.3	2.7
769.0125	34.4	2.7

Frequency (MHz)	Power (dBm)	Power (W)
772.0000	34.4	2.8
774.9875	34.5	2.8
775.9875	34.5	2.8
793.0125	34.4	2.7
798.0125	34.3	2.7
799.0125	34.3	2.7
802.0125	34.3	2.7
804.9875	34.2	2.6
805.9875	34.2	2.6
806.0125	35.2	3.3
815.0000	35.2	3.3
823.9875	35.2	3.3
824.9875	35.2	3.3
851.0125	35.4	3.5
860.0000	35.5	3.5
868.9875	35.4	3.5
869.9875	35.4	3.5

Notes: Data presented is for analog mode. All other modes were investigated and found to have equivalent power within measurement tolerances.

UHF band data is for engineering use only, and not applicable to the current equipment authorization application.

Table 4-2: Test Equipment Used For Testing RF Power Output - Conducted

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	4/26/21
901139	MCE Weinschel	48-20-34	Attenuator, 20 dB, DC-18 GHz, 100 W	BK5859	5/4/21
901727	Insulated Wire Inc.	KPS-1503-360-KPR	SMK RF Cables 36"	NA	9/14/21
901350	Meterman	33XR	Multimeter	040402802	9/20/21

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level using a coverage factor K=2. Measurement uncertainty: ±0.5 Hz/±0.5 dB

Results: Pass

Test Personnel:

Daniel W. Baltzell		February 4-March 26, 2021
EMC Test Engineer	Signature	Dates of Test

5 FCC Part 2.1051: Spurious Emissions at Antenna Terminals; Part 74.462: Authorized Bandwidth and Emissions; Part 90.210: Emission Limitations; §80.211: Emission Limitations; §22.359: Emission Limitations; ISED RSS-119 5.8: Transmitter Unwanted Emissions

5.1 Test Procedure

ANSI C63-26, section 5.7

The transmitter is terminated with a 50 Ω load and interfaced with a spectrum analyzer.

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

5.2 Test Data

Frequency range of measurement per §2.1057: 9 kHz to 10 x Fc

Limits: (43 + 10 LOG P(W)) for wideband and 50 + 10 LOG P(W)) for narrowband. A worst case limit of 50 + 10 Log P(W) was used.

The following channels (in MHz) were investigated:

Frequency (MHz)			
136.0125	378.0125	763.0000	806.0125
138.0125	406.1125	768.0125	815.0000
141.0125	418.0000	769.0125	823.9875
143.9875	429.9875	772.0000	824.9875
148.0125	450.0125	774.9875	851.0125
150.0125	453.9875	775.9875	860.0000
156.8000	456.0125	793.0125	868.9875
162.0125	459.0250	798.0125	869.9875
173.9875	459.9750	799.0125	
	469.9875	802.0125	
	511.9875	804.9875	
	521.9875	805.9875	

Both high and low power settings were checked; high power was found to be worst case. All modes were investigated and analog mode is presented as representative data.

All frequencies were found to be greater than 20 dB below the limit, no data is shown.

UHF band data is for engineering use only, and not applicable to the current equipment authorization application.

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level using a coverage factor K=2. Measurement uncertainty: ±0.5 dB

Results: Pass

Table 5-1: Test Equipment Used For Testing Spurious Emissions

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	4/26/21
901139	MCE Weinschel	48-20-34	Attenuator, 20 dB, DC-18 GHz, 100 W	BK5859	5/4/21
901129	Par Electronics	188-174 (25W)	VHF Notch Filters	N/A	9/9/21
901135	Par Electronics	400-512 (25W)	UHF Notch Filter	N/A	9/9/21
901128	Par Electronics	806-902 (25W)	UHF Notch Filter	N/A	9/9/21

Test Personnel:

Daniel W. Baltzell		February 5, 2021
EMC Test Engineer	Signature	Date of Test

6 FCC Part 90.543(a): Emission Limitations: ACP Requirements; ISED RSS-119 4.3: Adjacent Channel Power (ACP) Measurement for Equipment in the Bands 764-776 MHz and 794-806 MHz

Transmitters designed to operate in the 769–775 MHz and 799–805 MHz frequency bands must meet the emission limitations in paragraphs (a) through (d) of this section.

6.1 Test Procedure

ANSI C63-26, section 6.5.2.4

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

For a Portable transmitter designed to operate with a 12.5 kHz channel bandwidth, the ACP shall be in accordance with the values in the following table:

Offset from Center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP Relative (dBc)
(+/-)9.375	6.25	-40
(+/-)15.625	6.25	-60
(+/-)21.875	6.25	-60
(+/-)37.5	25	-60
(+/-)62.5	25	-65
(+/-)87.5	25	-65
(+/-)150	100	-65
(+/-)250	100	-65
(+/-)350	100	-65
>400 kHz to 12 MHz	30(s)	-75
12 MHz to paired receive band	30(s)	-75
In the paired receive band	30(s)	-100

For a Portable transmitter designed to operate with a 25 kHz channel bandwidth, the ACP shall be in accordance with the values in the following table:

Offset from Center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP Relative (dBc)
(+/-)15.625	6.25	-40
(+/-)21.875	6.25	-60
(+/-)37.5	25	-60
(+/-)62.5	25	-65
(+/-)87.5	25	-65
(+/-)150	100	-65
(+/-)250	100	-65
(+/-)350	100	-65
>400 kHz to 12 MHz	30(s)	-75
12 MHz to paired receive band	30(s)	-75
In the paired receive band	30(s)	-100

FCC Rules and Regulations §90.543(b)

Setting Reference Level - §90.543(b)(1): Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth to the channel size. Set the frequency offset of the measurement to zero and adjust the center frequency of the spectrum analyzer to give the power level in the measurement bandwidth. Record this power as the reference power level.

Measuring the power level at the frequency offset <600 kHz - §90.543(b)(2): Using a spectrum analyzer capable of adjacent channel power (ACP) measurements, set the measurement bandwidth as shown in table. Measure ACP in dBm. These measurements are made at maximum power. Calculate the coupled power by subtracting the measurements made in this step from the reference power level. The absolute ACP values must be less than the values given in the table for each condition.

Measuring the power level at the frequency offset >600 kHz - §90.543(b)(3): Set the spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and sample detection mode. Sweep +/-6 MHz from the carrier frequency. Set the reference level to the RMS value of the transmitter power and note the power. The response at frequencies >600 kHz must be less than the values listed in the table.

6.2 Test Data

Plot 6-1: Adjacent Channel Power - 768.0125 MHz; Analog; 12.5 kHz Channel Spacing

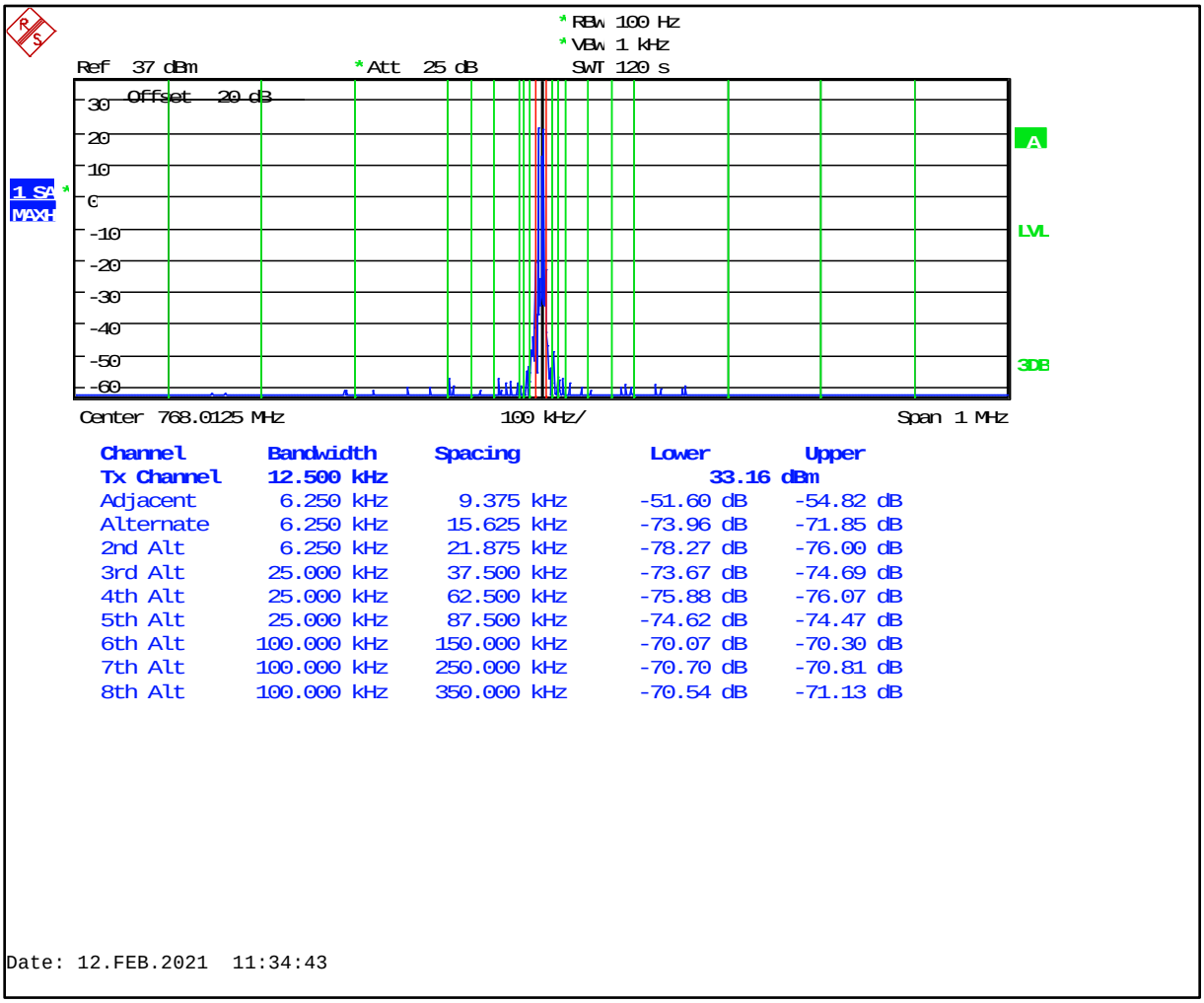


Table 6-1: Adjacent Channel Power - 768.0125 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.8
12 MHz to receive band	30(s)	-75	-88.2
In receive band	30(s)	-100	-107.6

Plot 6-2: Adjacent Channel Power - 769.0125 MHz; Analog; 12.5 kHz Channel Spacing

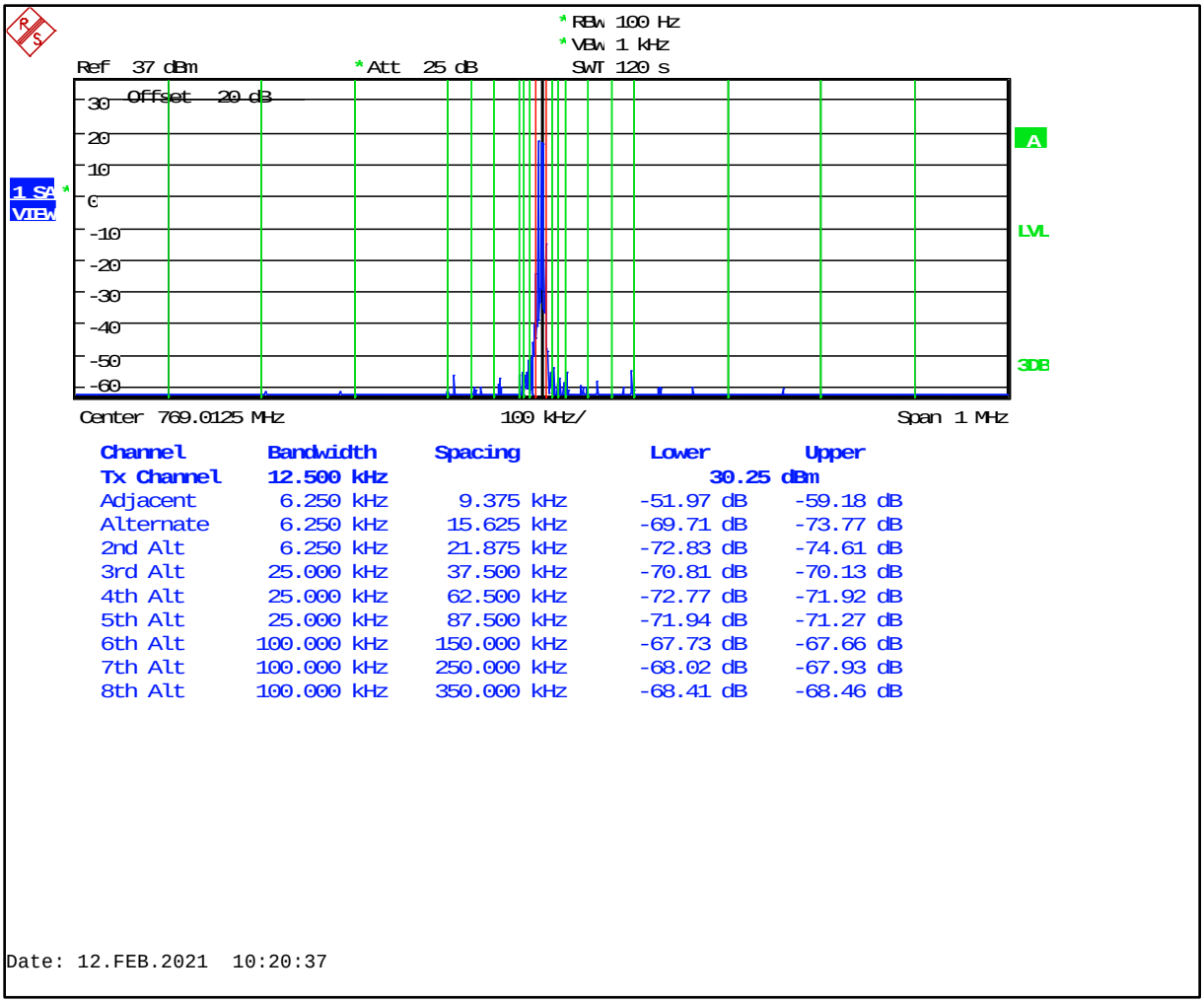


Table 6-2: Adjacent Channel Power - 769.0125 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.1
12 MHz to receive band	30(s)	-75	-89.7
In receive band	30(s)	-100	-110.4

Plot 6-3: Adjacent Channel Power - 772.0000 MHz; Analog; 12.5 kHz Channel Spacing

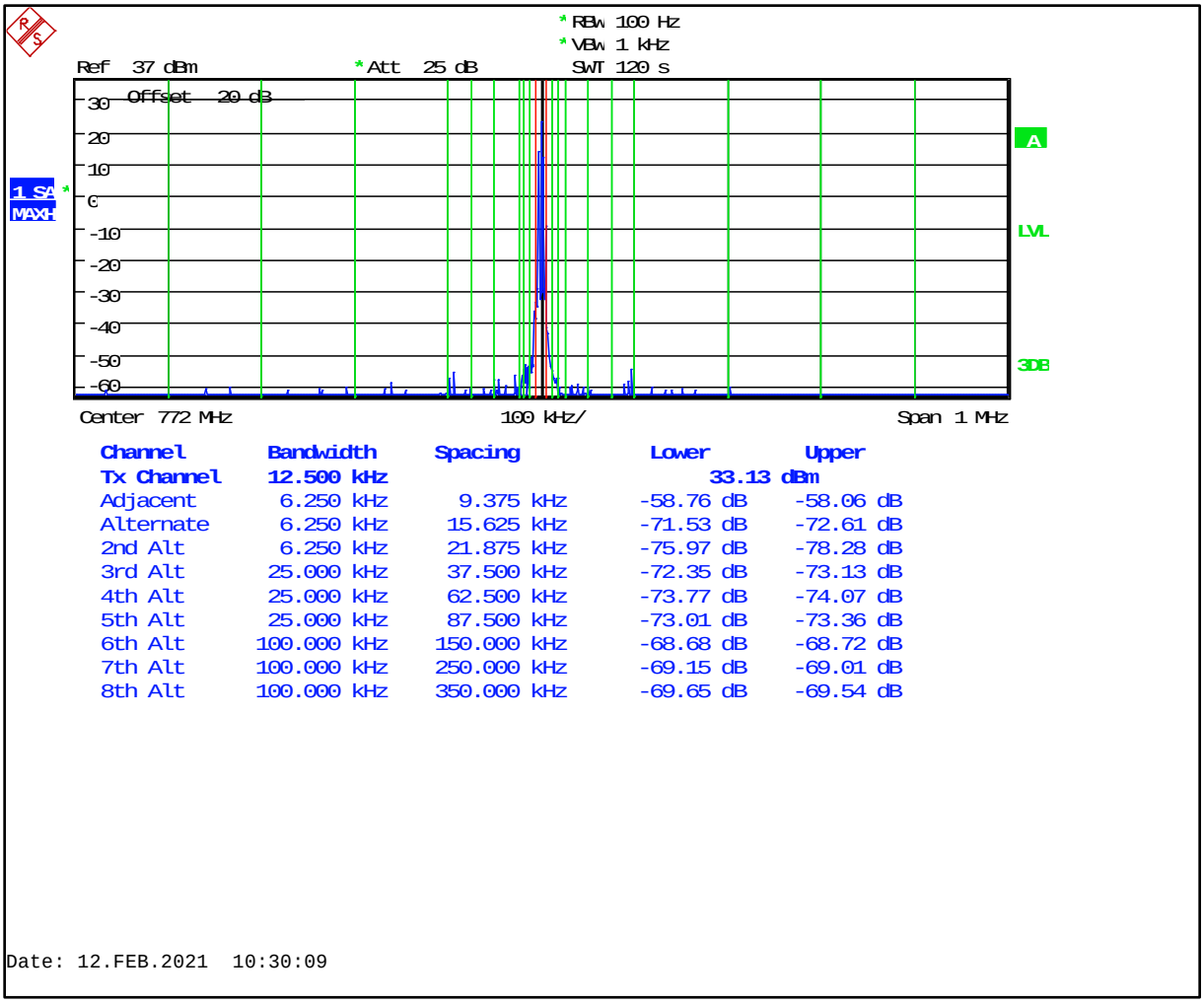


Table 6-3: Adjacent Channel Power - 772.0000 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.4
12 MHz to receive band	30(s)	-75	-89.7
In receive band	30(s)	-100	-110.7

Plot 6-4: Adjacent Channel Power - 774.9875 MHz; Analog; 12.5 kHz Channel Spacing

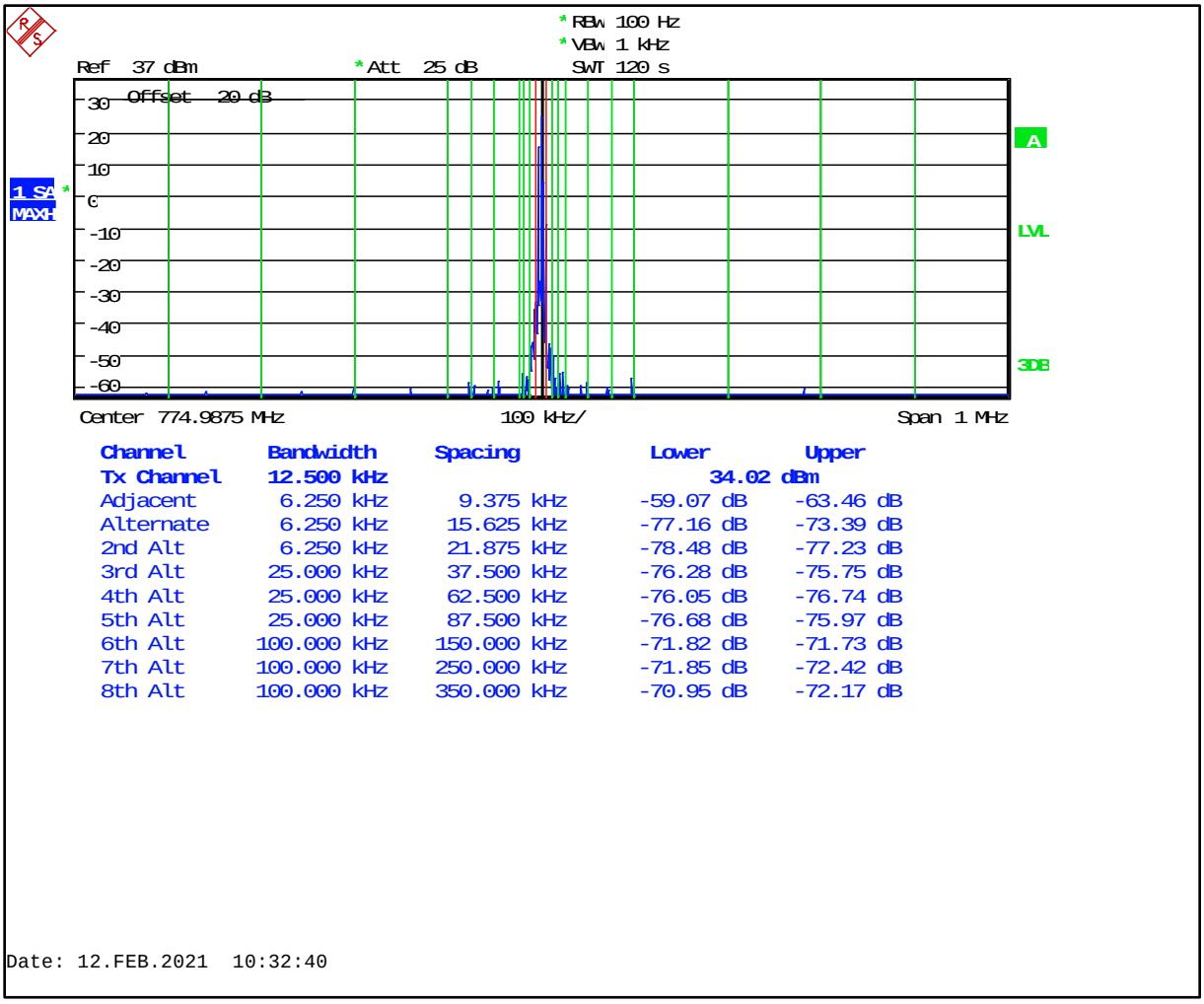


Table 6-4: Adjacent Channel Power - 774.9875 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.4
12 MHz to receive band	30(s)	-75	-88.2
In receive band	30(s)	-100	-111.4

Plot 6-5: Adjacent Channel Power - 775.9875 MHz; Analog; 12.5 kHz Channel Spacing

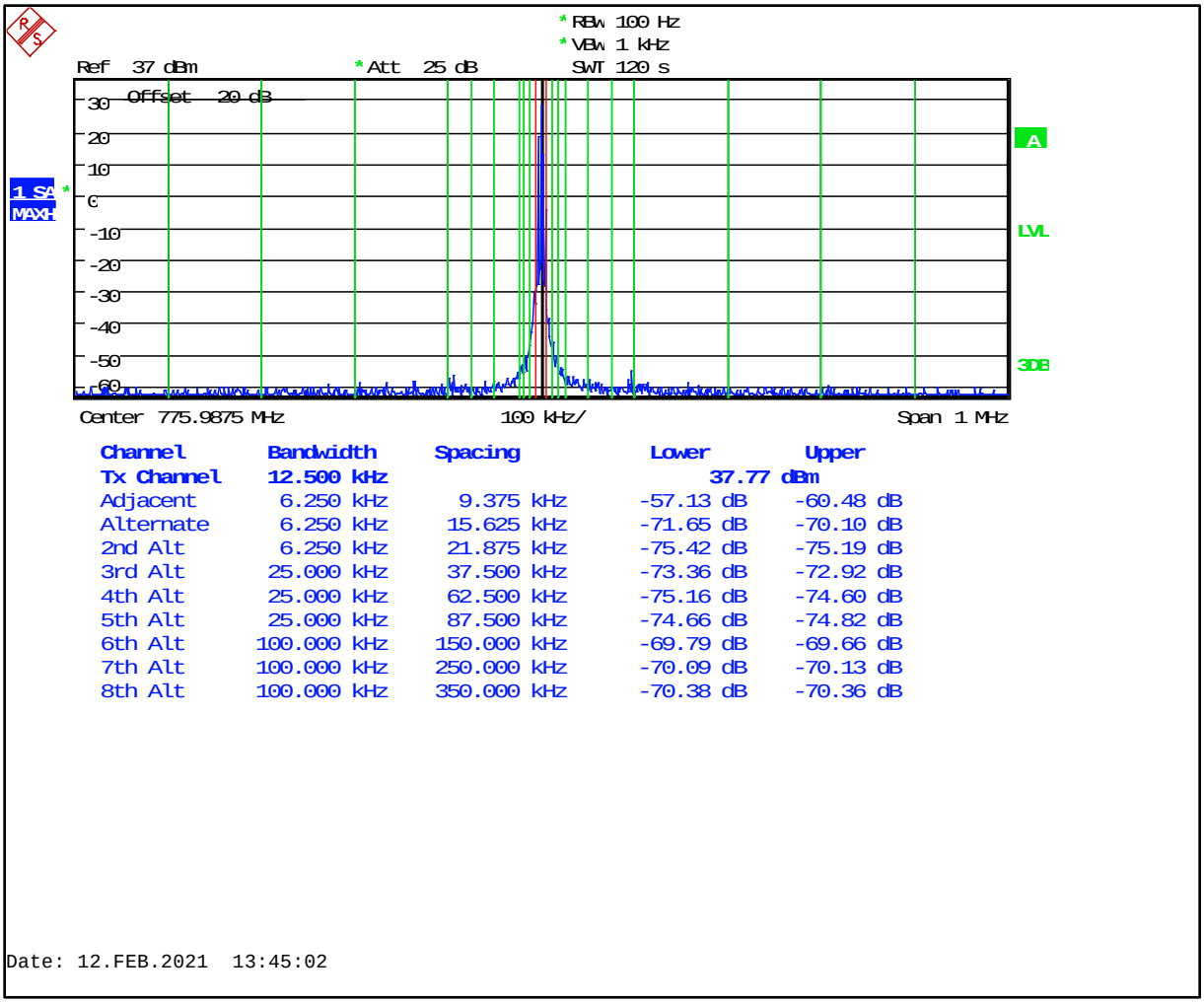


Table 6-5: Adjacent Channel Power - 775.9875 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.1
12 MHz to receive band	30(s)	-75	-89.1
In receive band	30(s)	-100	-107.6

Plot 6-6: Adjacent Channel Power - 798.0125 MHz; Analog; 12.5 kHz Channel Spacing

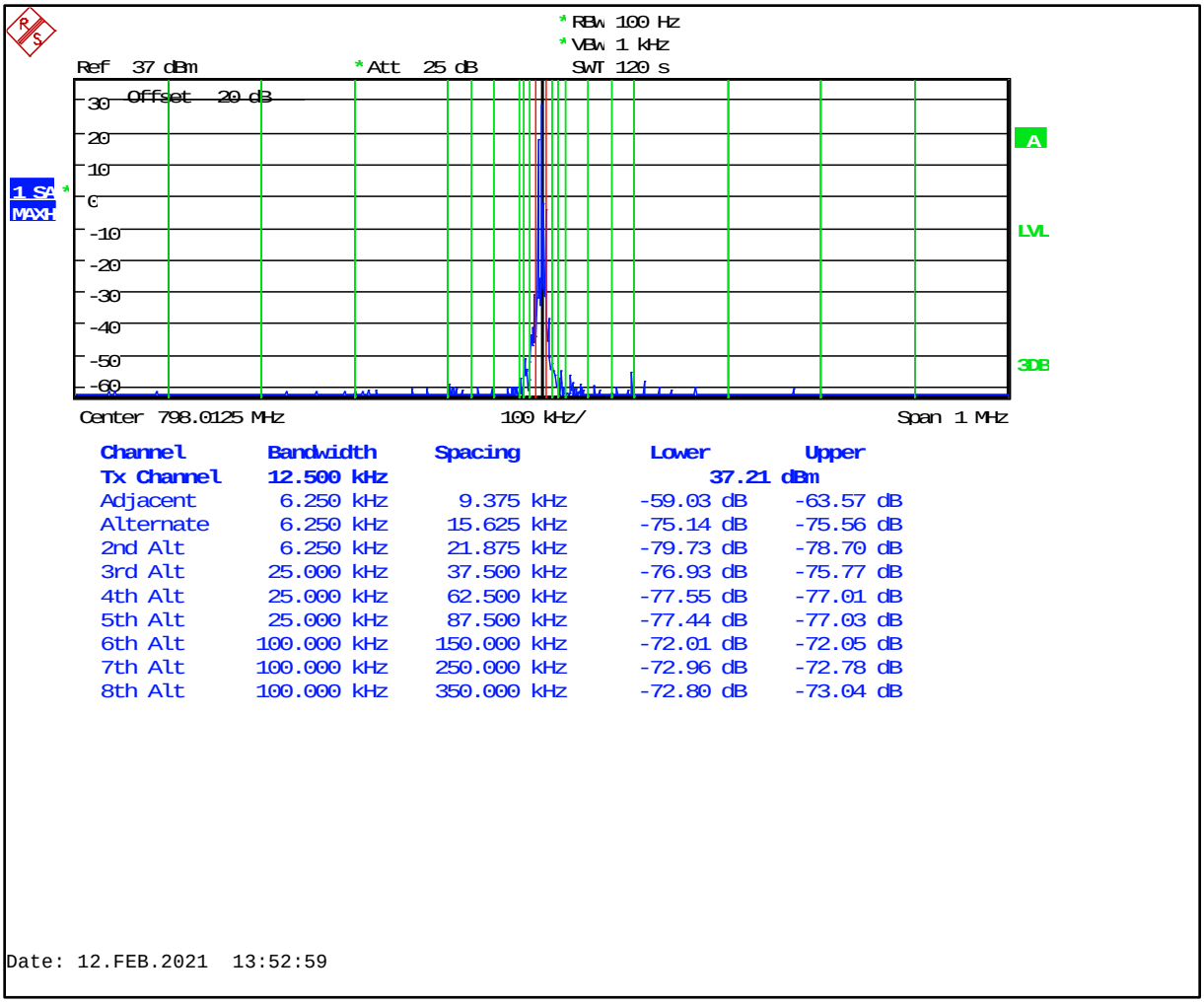


Table 6-6: Adjacent Channel Power - 798.0125 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.5
12 MHz to receive band	30(s)	-75	-97.5
In receive band	30(s)	-100	-104.5

Plot 6-7: Adjacent Channel Power - 799.0125 MHz; Analog; 12.5 kHz Channel Spacing

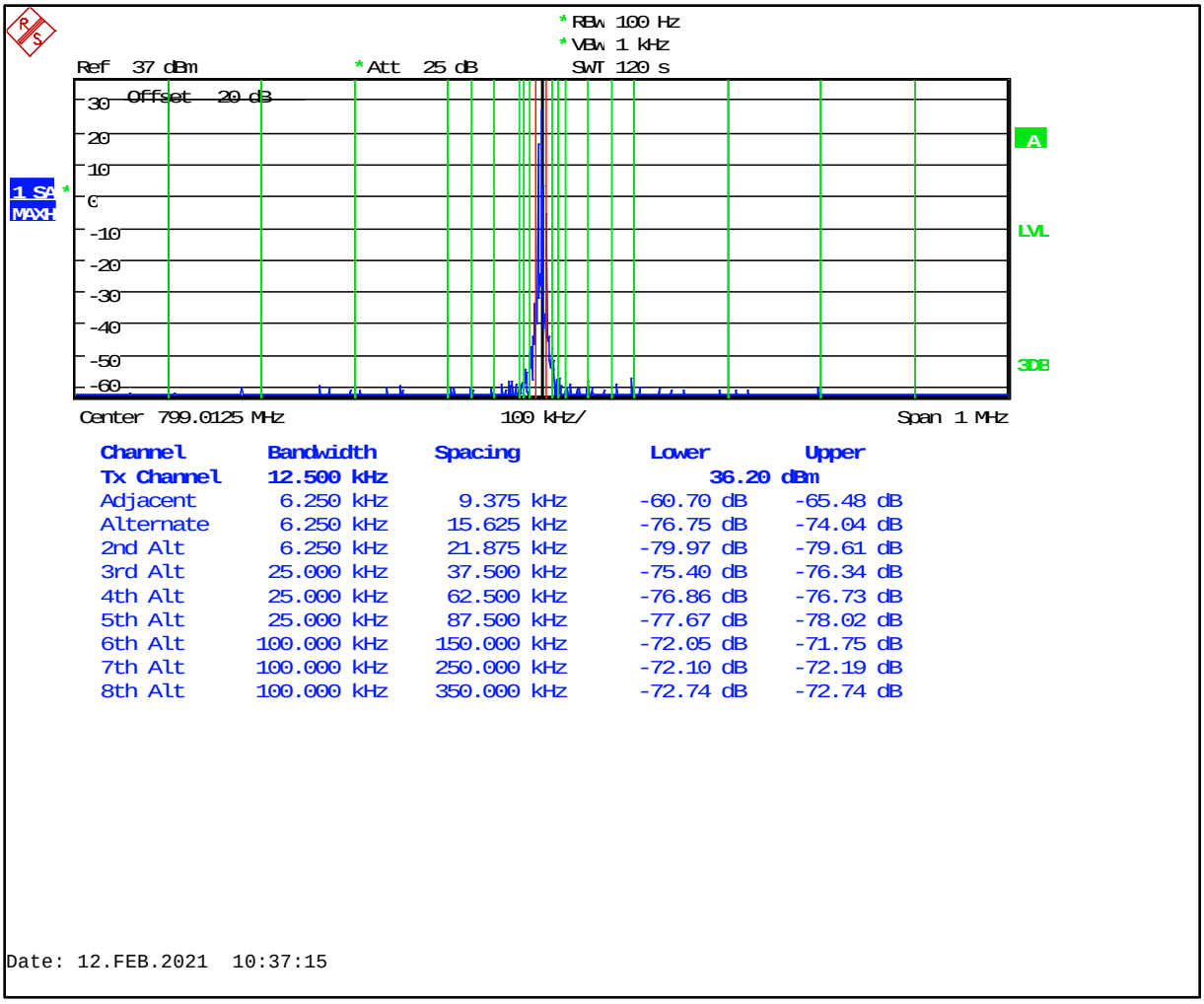


Table 6-7: Adjacent Channel Power - 799.0125 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.2
12 MHz to receive band	30(s)	-75	-94.5
In receive band	30(s)	-100	-103.3

Plot 6-8: Adjacent Channel Power - 802.0000 MHz; Analog; 12.5 kHz Channel Spacing

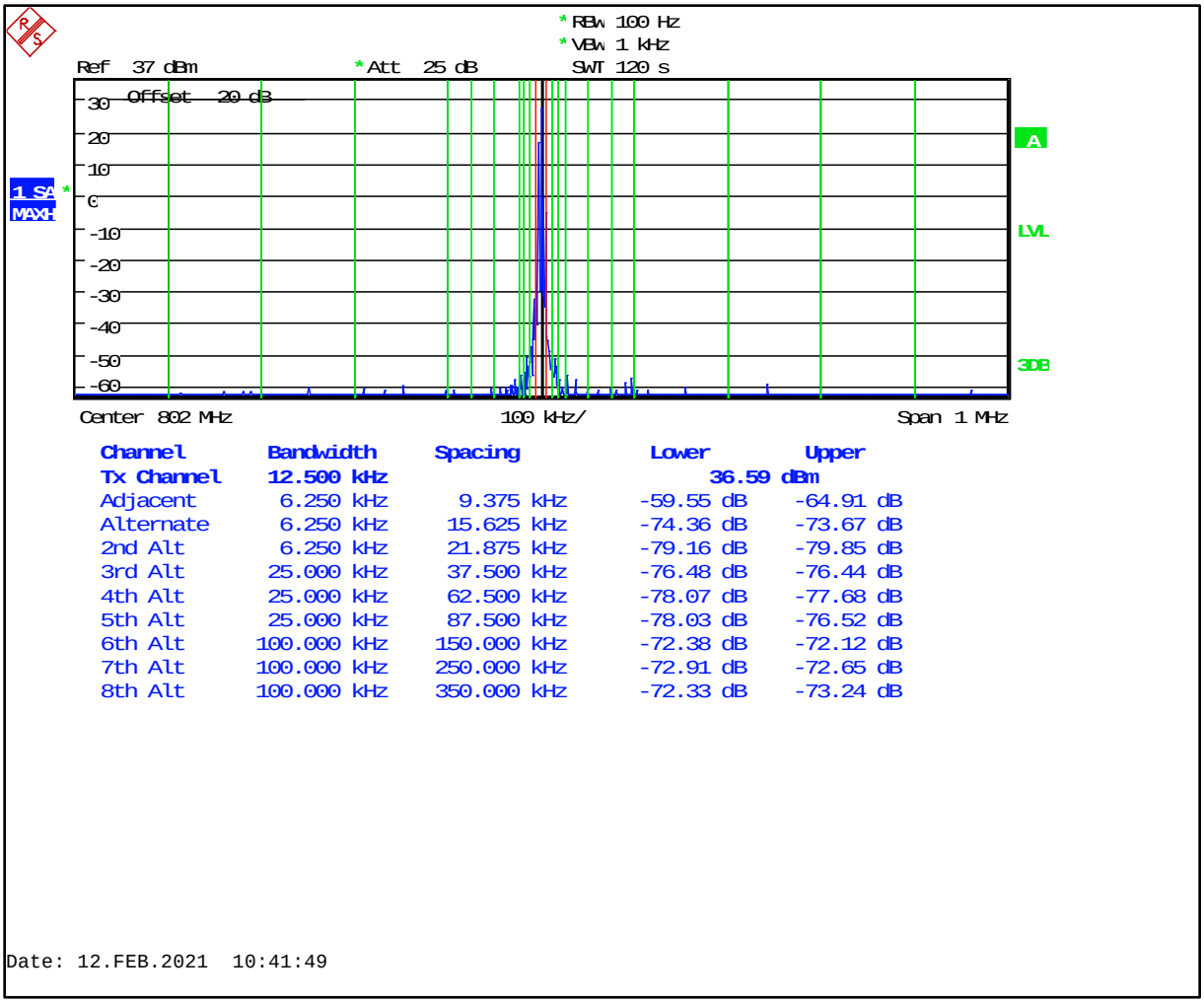


Table 6-8: Adjacent Channel Power - 802.0000 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.6
12 MHz to receive band	30(s)	-75	-92.8
In receive band	30(s)	-100	-106.8

Plot 6-9: Adjacent Channel Power – 804.9875 MHz; Analog; 12.5 kHz Channel Spacing

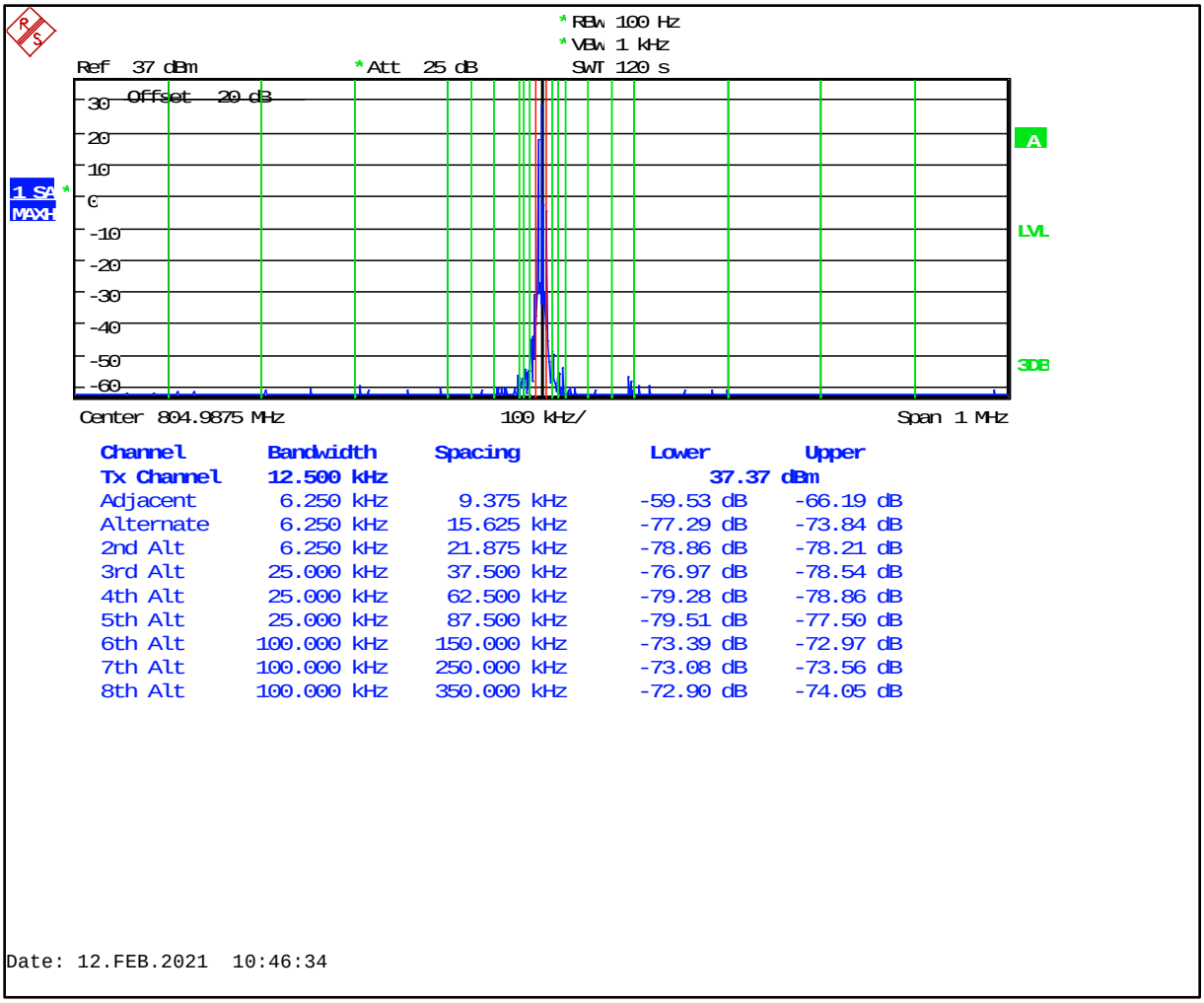


Table 6-9: Adjacent Channel Power – 804.9875 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.1
12 MHz to receive band	30(s)	-75	-92.7
In receive band	30(s)	-100	-108.0

Plot 6-10: Adjacent Channel Power – 805.9875 MHz; Analog; 12.5 kHz Channel Spacing

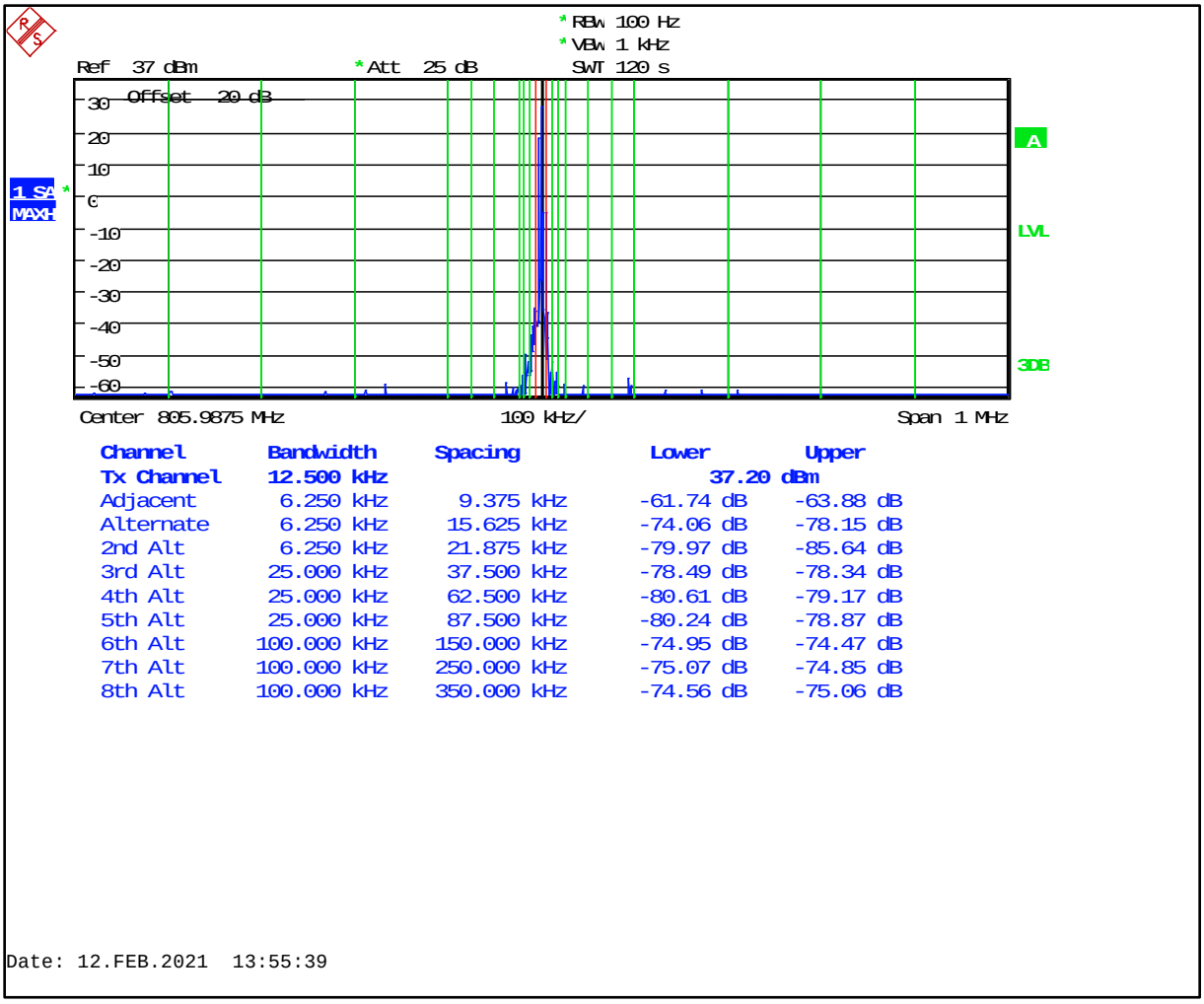


Table 6-10: Adjacent Channel Power – 805.9875 MHz; Analog; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.7
12 MHz to receive band	30(s)	-75	-85.4
In receive band	30(s)	-100	-105.7

Plot 6-11: Adjacent Channel Power - 768.0125 MHz; Analog; 25.0 kHz Channel Spacing

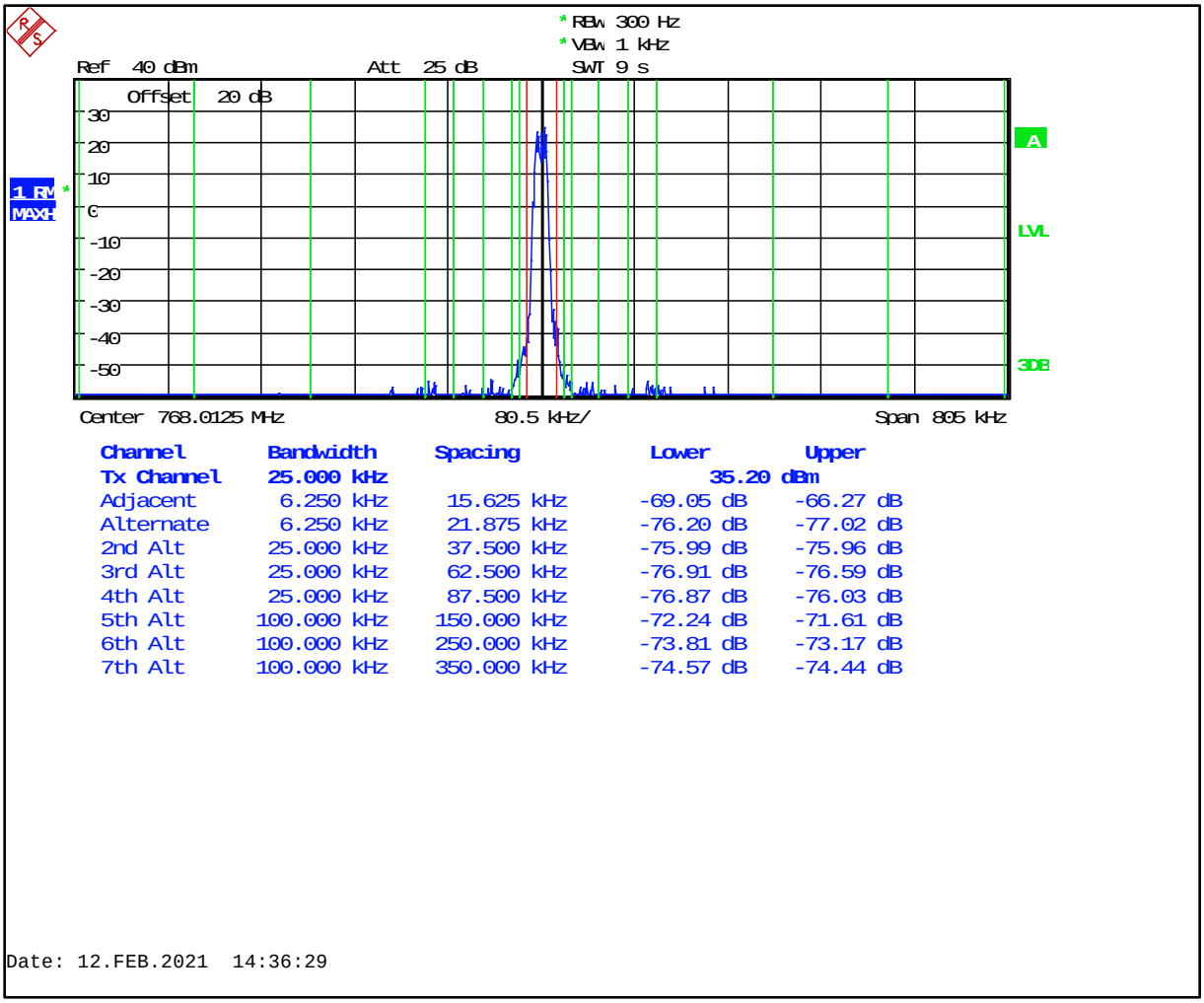


Table 6-11: Adjacent Channel Power - 768.0125 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.8
12 MHz to receive band	30(s)	-75	-89.0
In receive band	30(s)	-100	-108.3

Plot 6-12: Adjacent Channel Power - 769.0125 MHz; Analog; 25.0 kHz Channel Spacing

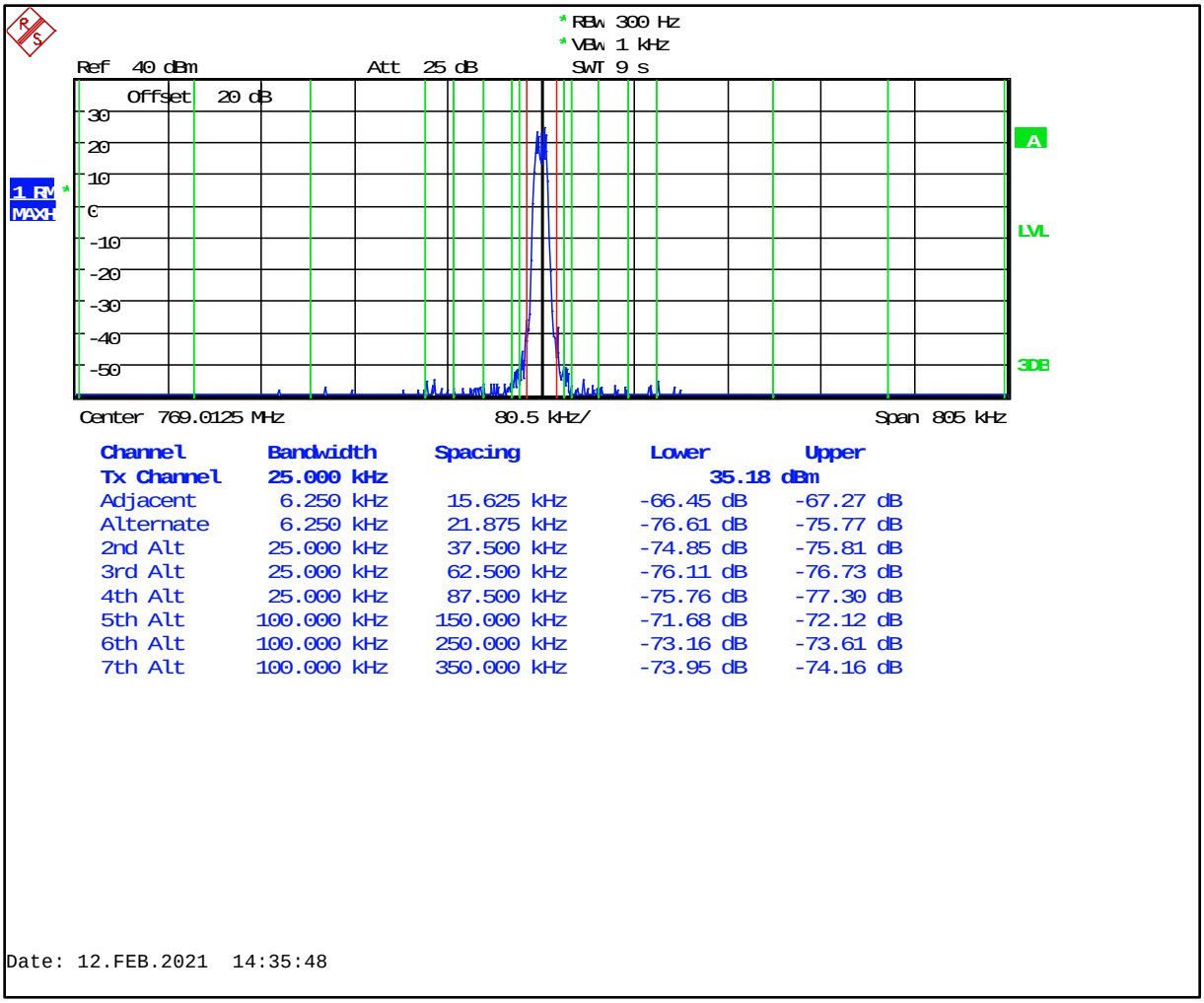


Table 6-12: Adjacent Channel Power - 769.0125 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.4
12 MHz to receive band	30(s)	-75	-89.3
In receive band	30(s)	-100	-111.3

Plot 6-13: Adjacent Channel Power - 772.0000 MHz; Analog; 25.0 kHz Channel Spacing

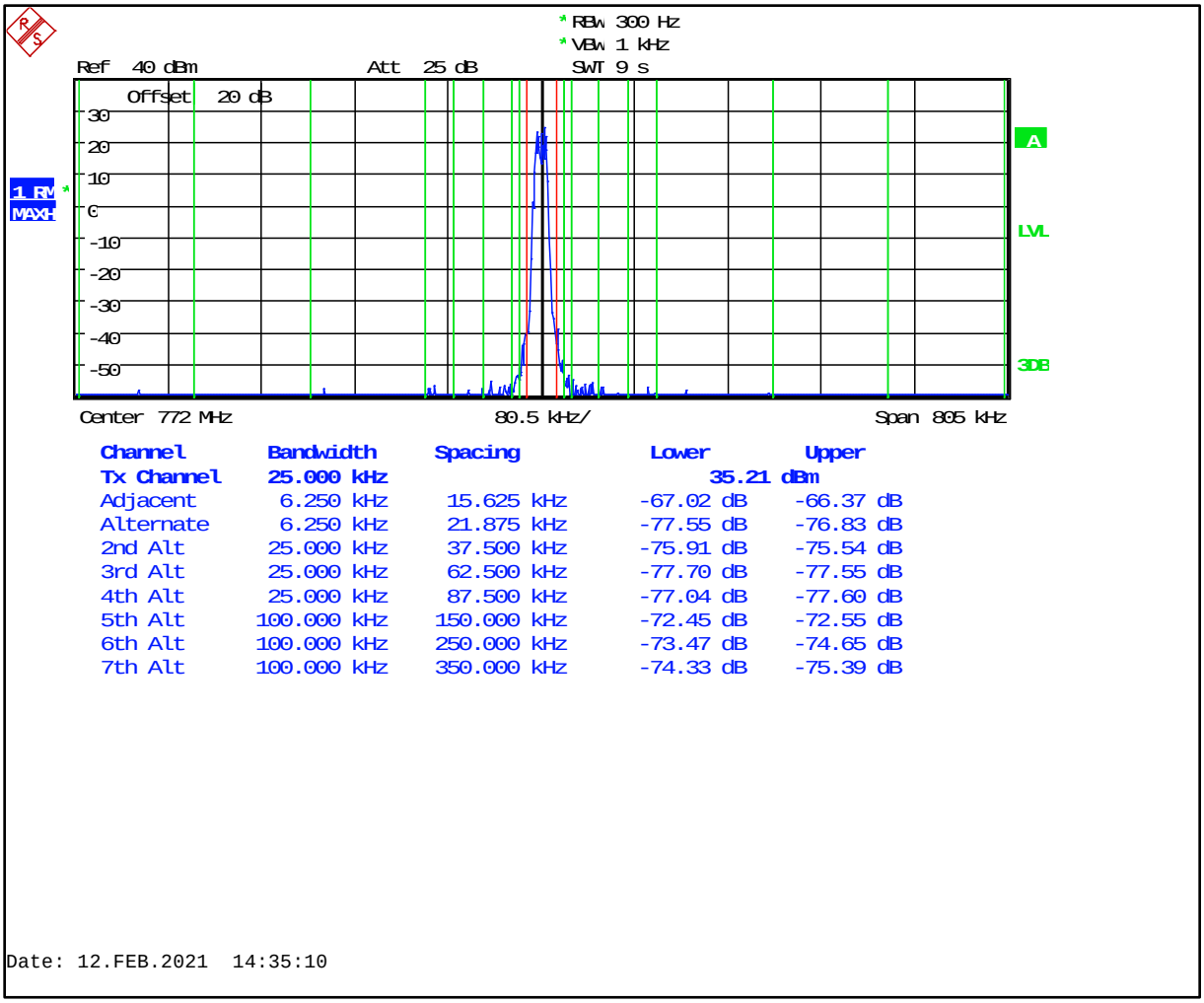


Table 6-13: Adjacent Channel Power - 772.0000 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.7
12 MHz to receive band	30(s)	-75	-88.8
In receive band	30(s)	-100	-110.6

Plot 6-14: Adjacent Channel Power - 774.9875 MHz; Analog; 25.0 kHz Channel Spacing

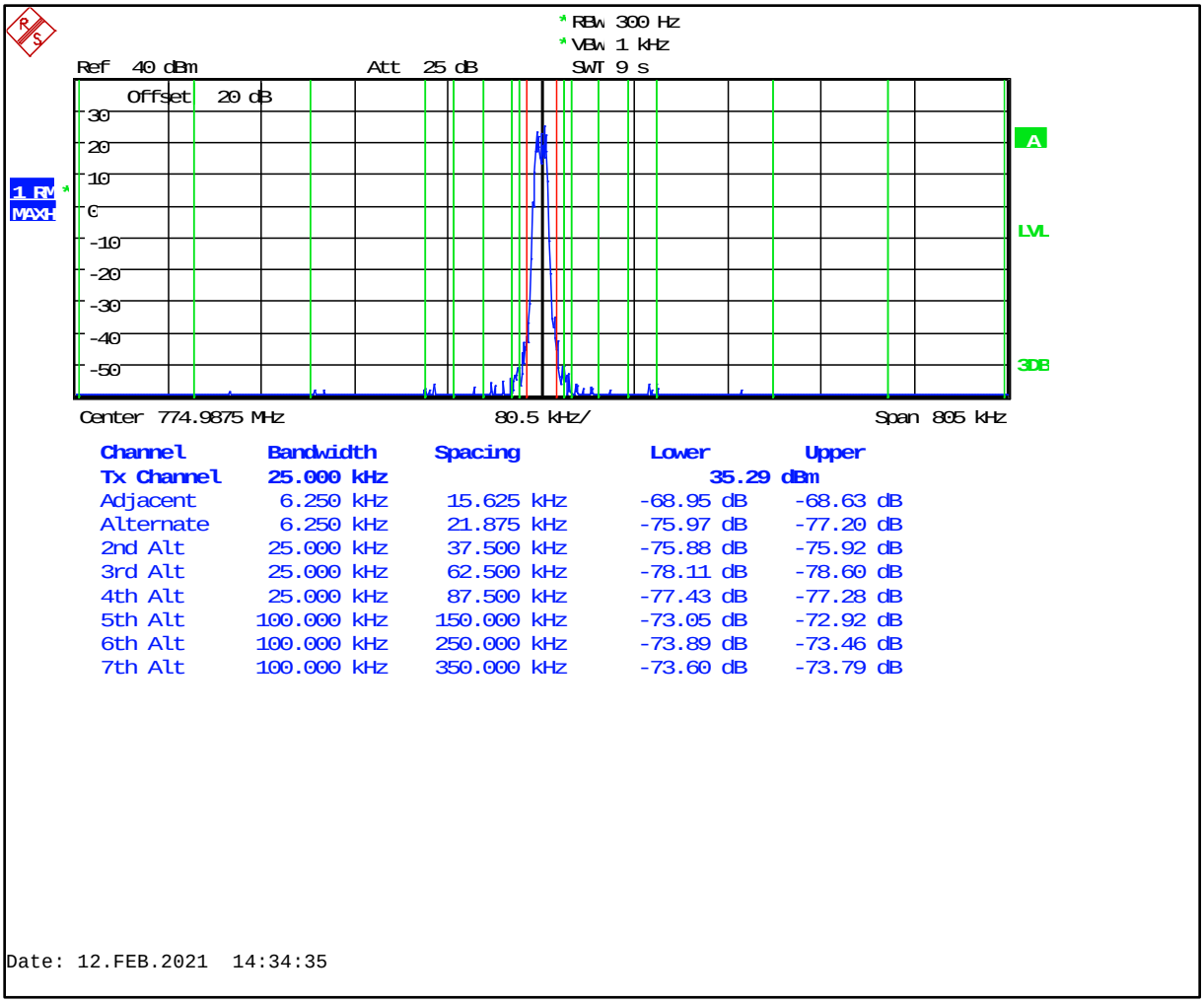


Table 6-14: Adjacent Channel Power - 774.9875 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.2
12 MHz to receive band	30(s)	-75	-89.2
In receive band	30(s)	-100	-110.4

Plot 6-15: Adjacent Channel Power - 775.9875 MHz; Analog; 25.0 kHz Channel Spacing

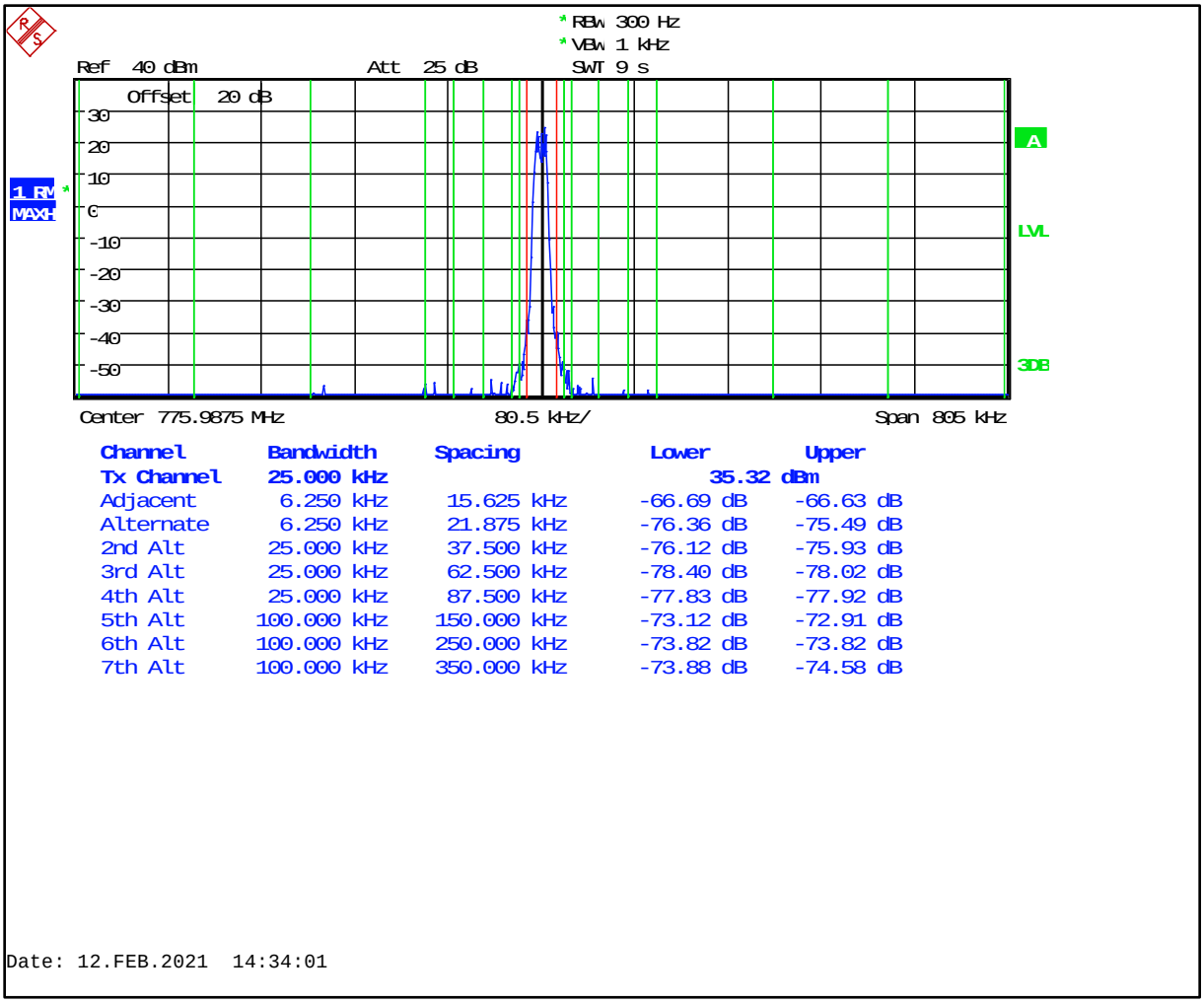


Table 6-15: Adjacent Channel Power - 775.9875 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.7
12 MHz to receive band	30(s)	-75	-88.4
In receive band	30(s)	-100	-108.0

Plot 6-16: Adjacent Channel Power - 798.0125 MHz; Analog; 25.0 kHz Channel Spacing

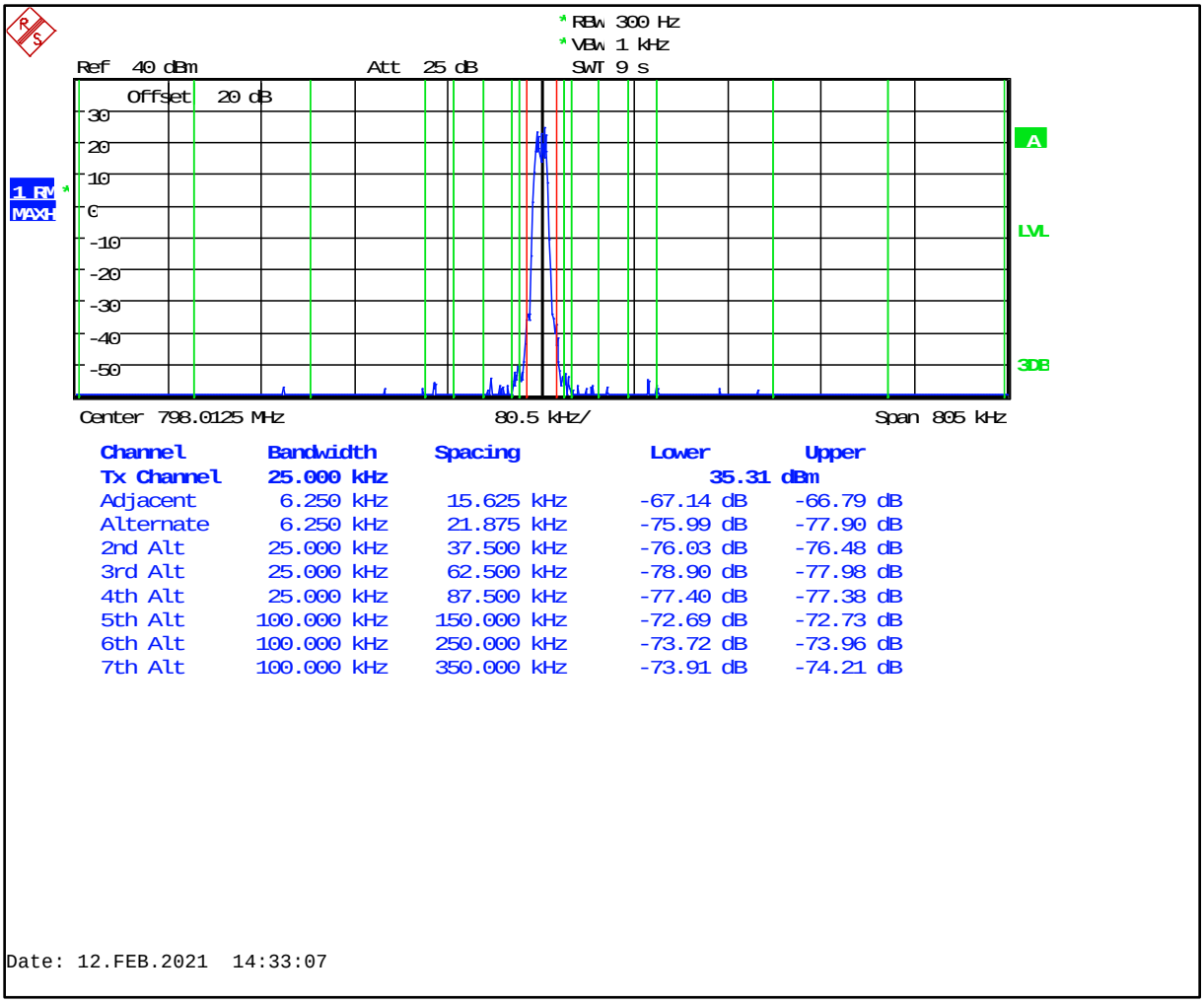


Table 6-16: Adjacent Channel Power - 798.0125 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.0
12 MHz to receive band	30(s)	-75	-96.6
In receive band	30(s)	-100	-104.0

Plot 6-17: Adjacent Channel Power - 799.0125 MHz; Analog; 25.0 kHz Channel Spacing

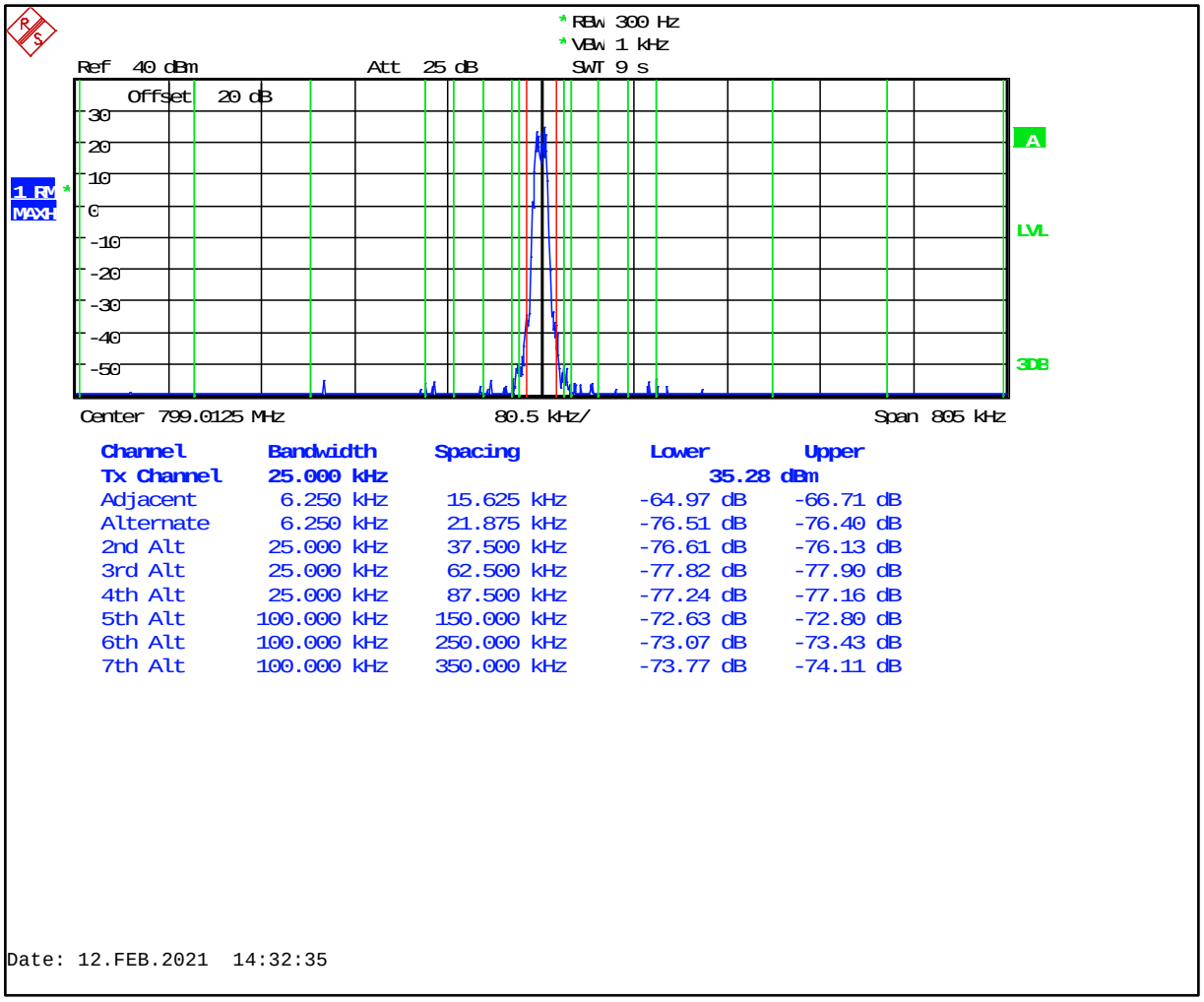


Table 6-17: Adjacent Channel Power - 799.0125 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.2
12 MHz to receive band	30(s)	-75	-96.3
In receive band	30(s)	-100	-103.1

Plot 6-18: Adjacent Channel Power - 802.0000 MHz; Analog; 25.0 kHz Channel Spacing

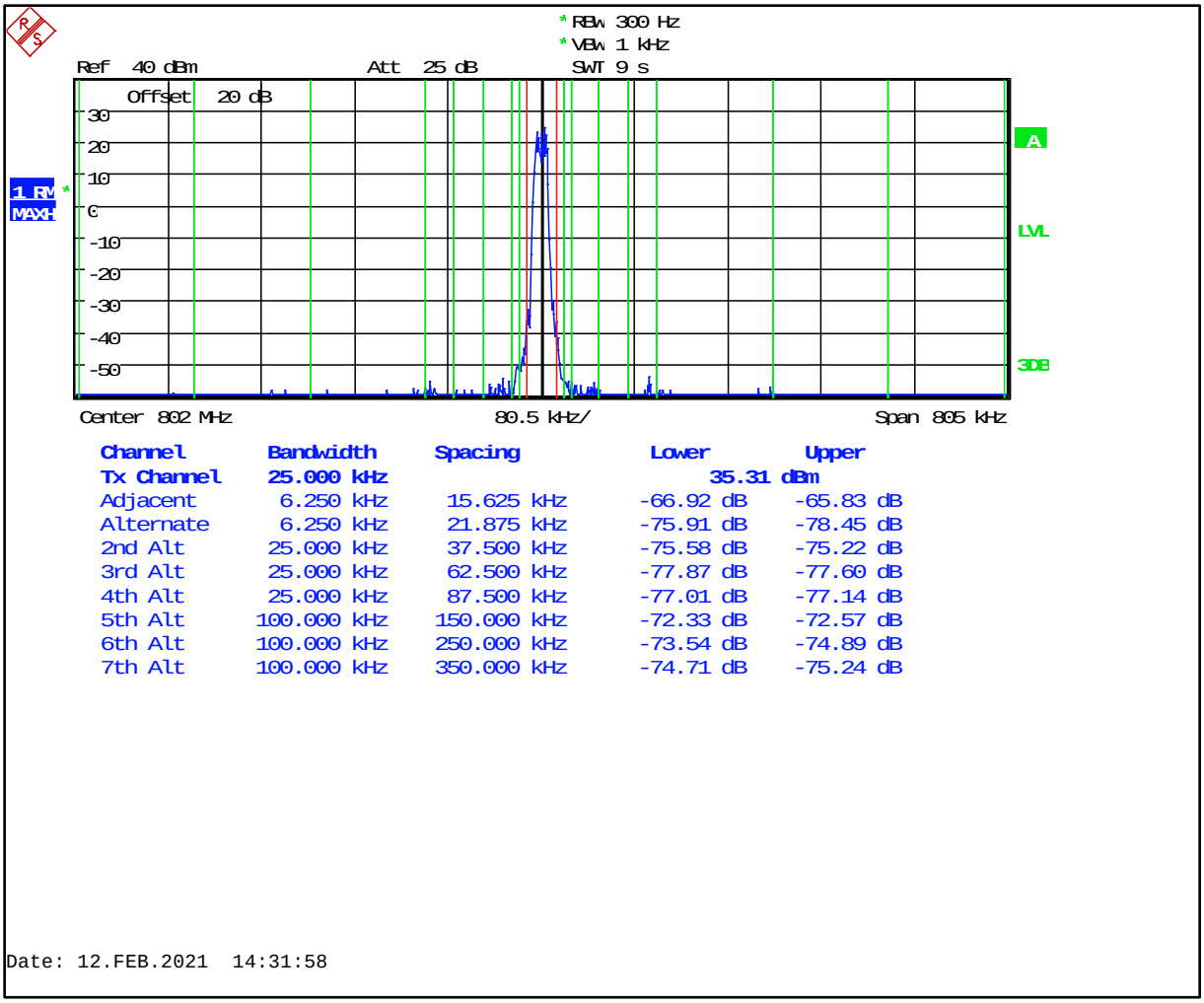


Table 6-18: Adjacent Channel Power - 802.0000 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.9
12 MHz to receive band	30(s)	-75	-91.9
In receive band	30(s)	-100	-107.0

Plot 6-19: Adjacent Channel Power – 804.9875 MHz; Analog; 25.0 kHz Channel Spacing

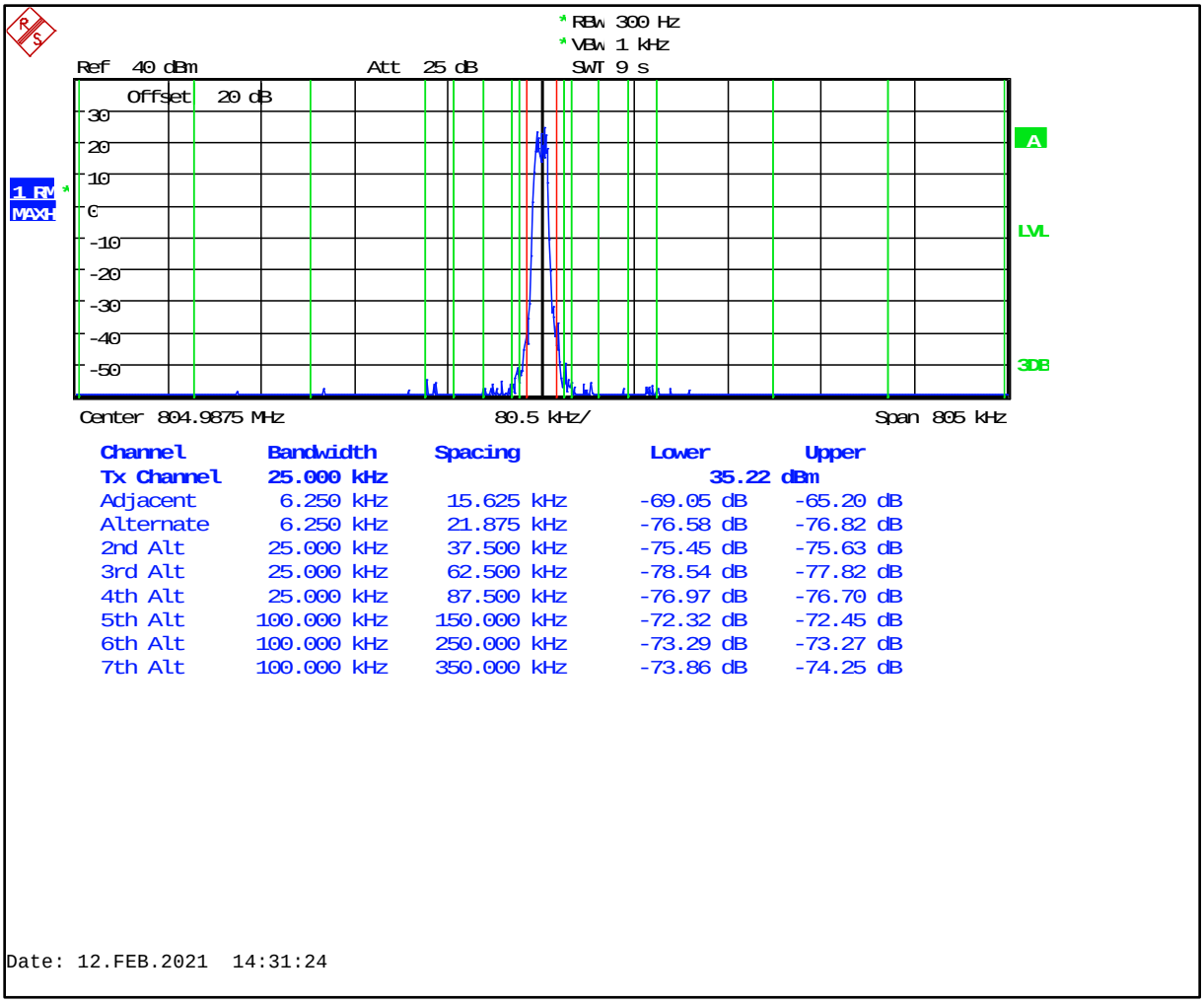


Table 6-19: Adjacent Channel Power – 804.9875 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.7
12 MHz to receive band	30(s)	-75	-92.1
In receive band	30(s)	-100	-107.8

Plot 6-20: Adjacent Channel Power – 805.9875 MHz; Analog; 25.0 kHz Channel Spacing

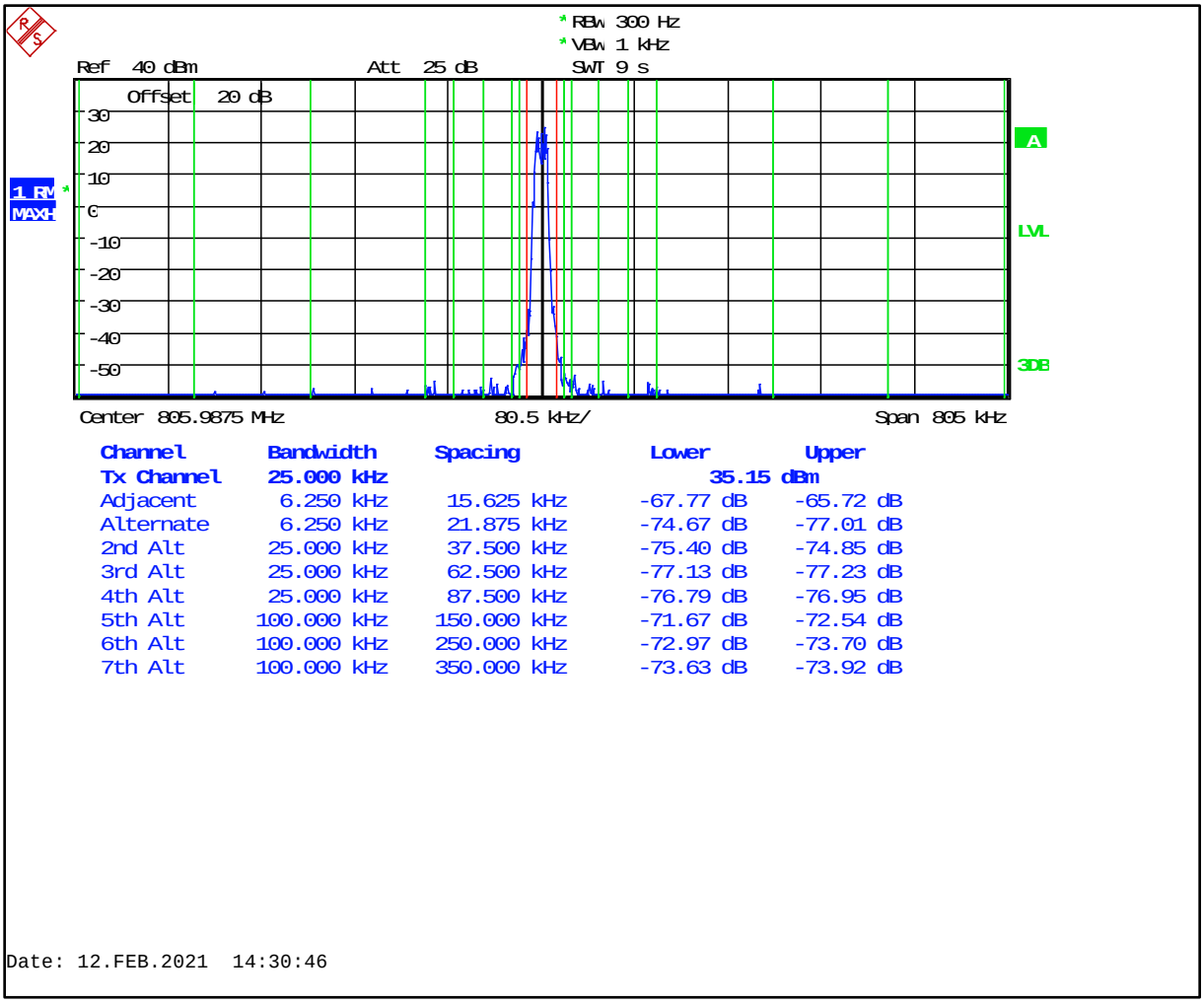


Table 6-20: Adjacent Channel Power – 805.9875 MHz; Analog; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.2
12 MHz to receive band	30(s)	-75	-86.0
In receive band	30(s)	-100	-107.2

Plot 6-21: Adjacent Channel Power - 768.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

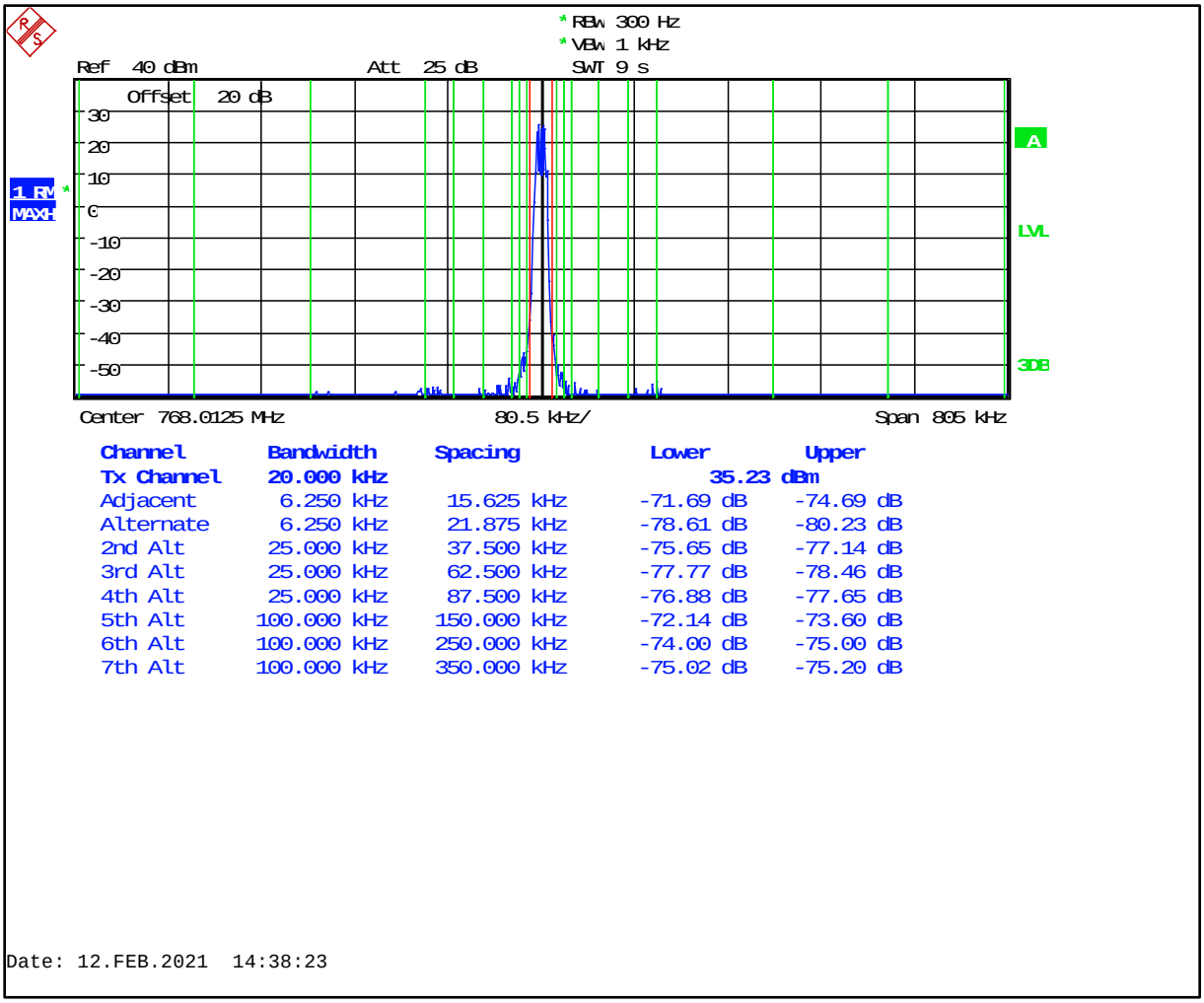


Table 6-21: Adjacent Channel Power - 768.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-82.9
12 MHz to receive band	30(s)	-75	-89.1
In receive band	30(s)	-100	-108.2

Plot 6-22: Adjacent Channel Power - 769.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

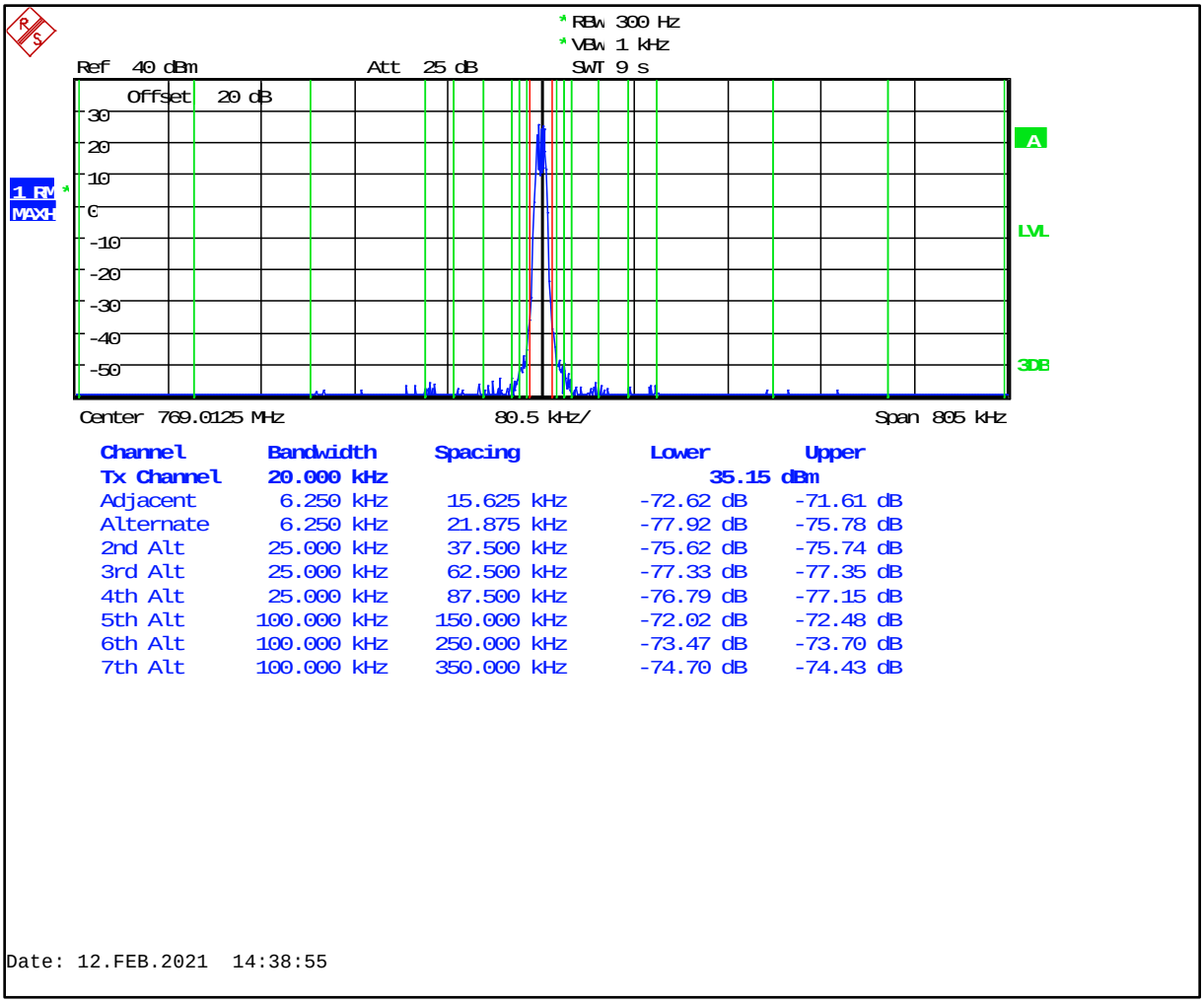


Table 6-22: Adjacent Channel Power - 769.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.4
12 MHz to receive band	30(s)	-75	-89.7
In receive band	30(s)	-100	-111.6

Plot 6-23: Adjacent Channel Power - 772.0000 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

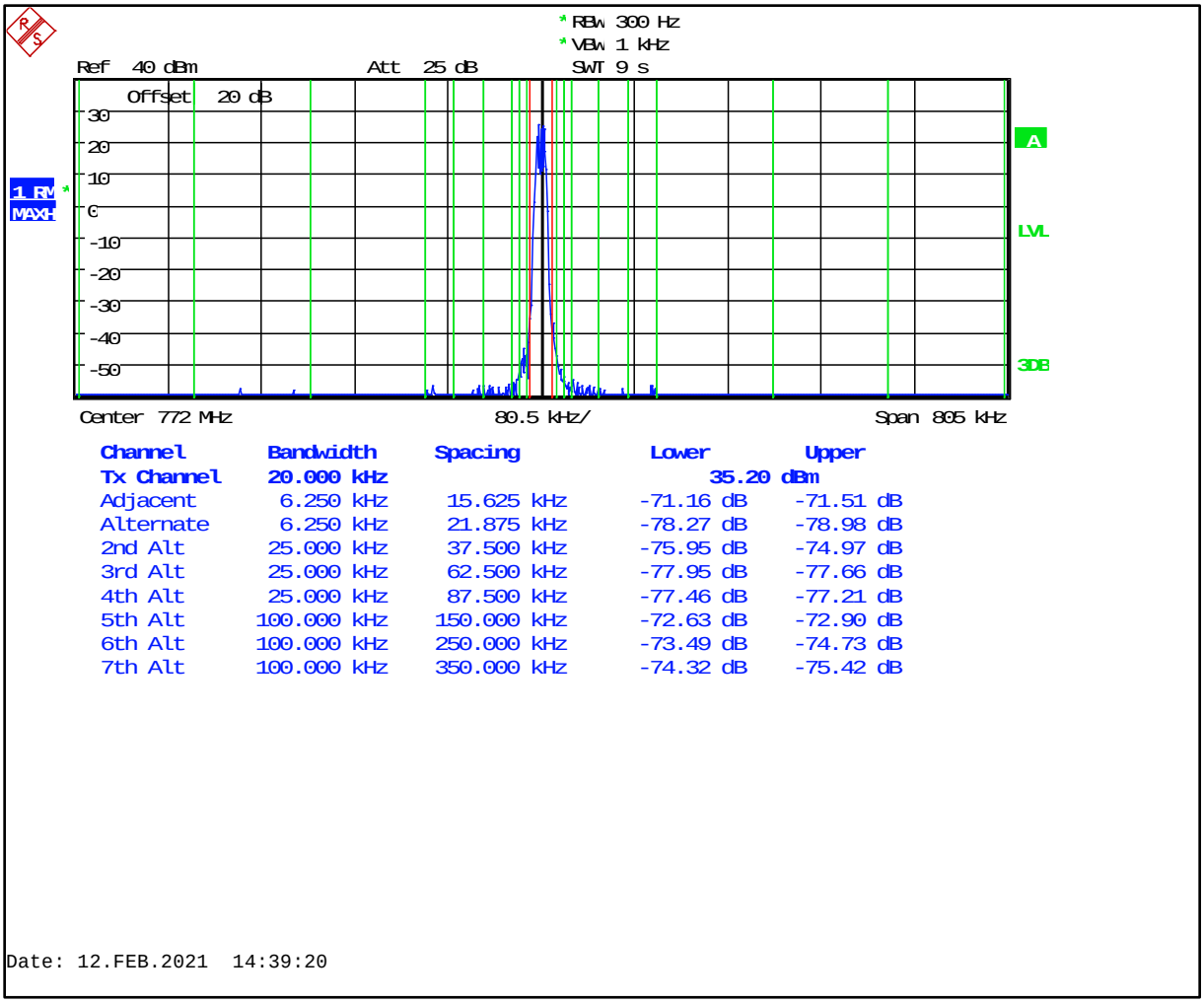


Table 6-23: Adjacent Channel Power - 772.0000 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.0
12 MHz to receive band	30(s)	-75	-90.2
In receive band	30(s)	-100	-110.8

Plot 6-24: Adjacent Channel Power - 774.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

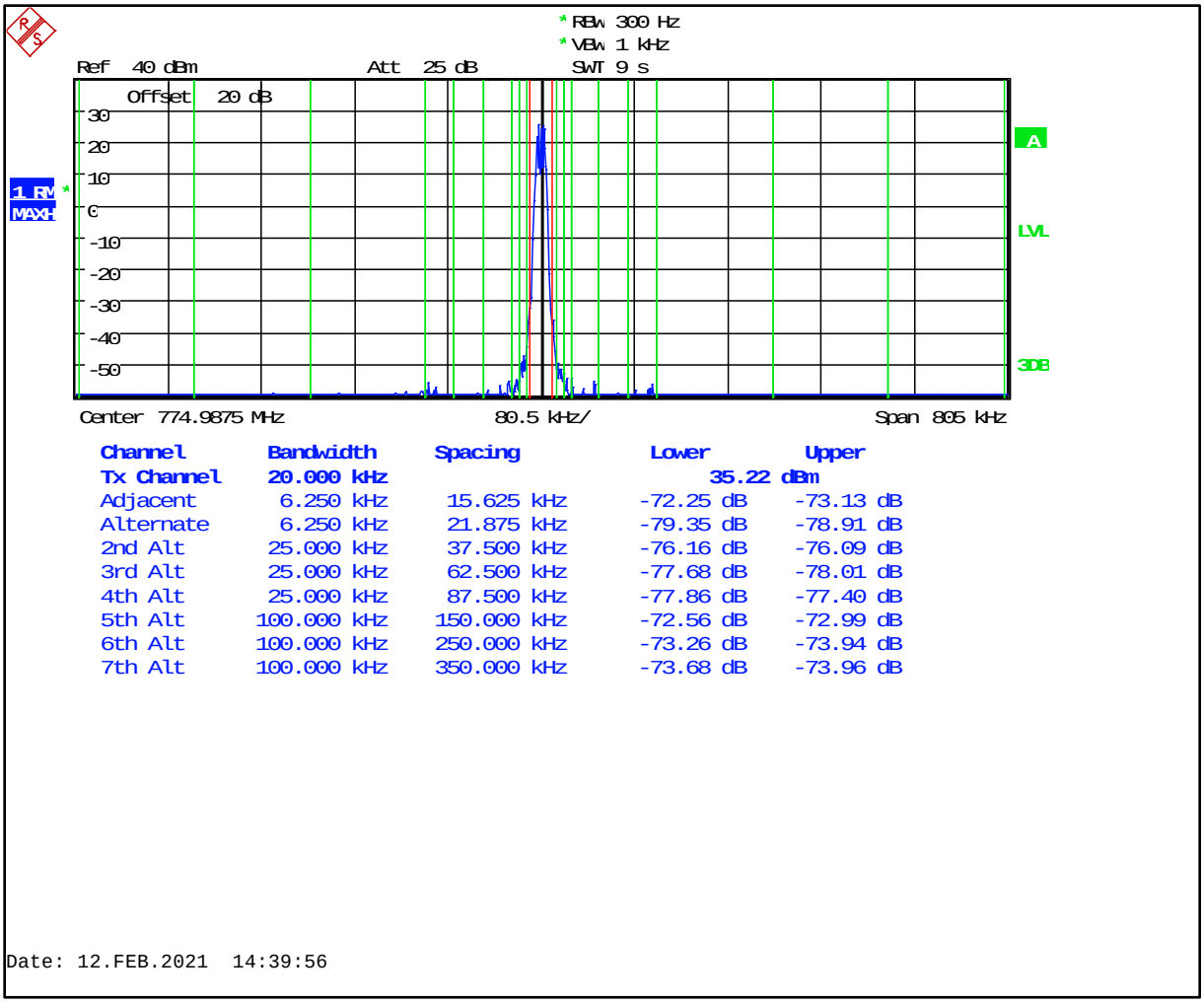


Table 6-24: Adjacent Channel Power - 774.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.9
12 MHz to receive band	30(s)	-75	-88.9
In receive band	30(s)	-100	-110.8

Plot 6-25: Adjacent Channel Power - 775.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

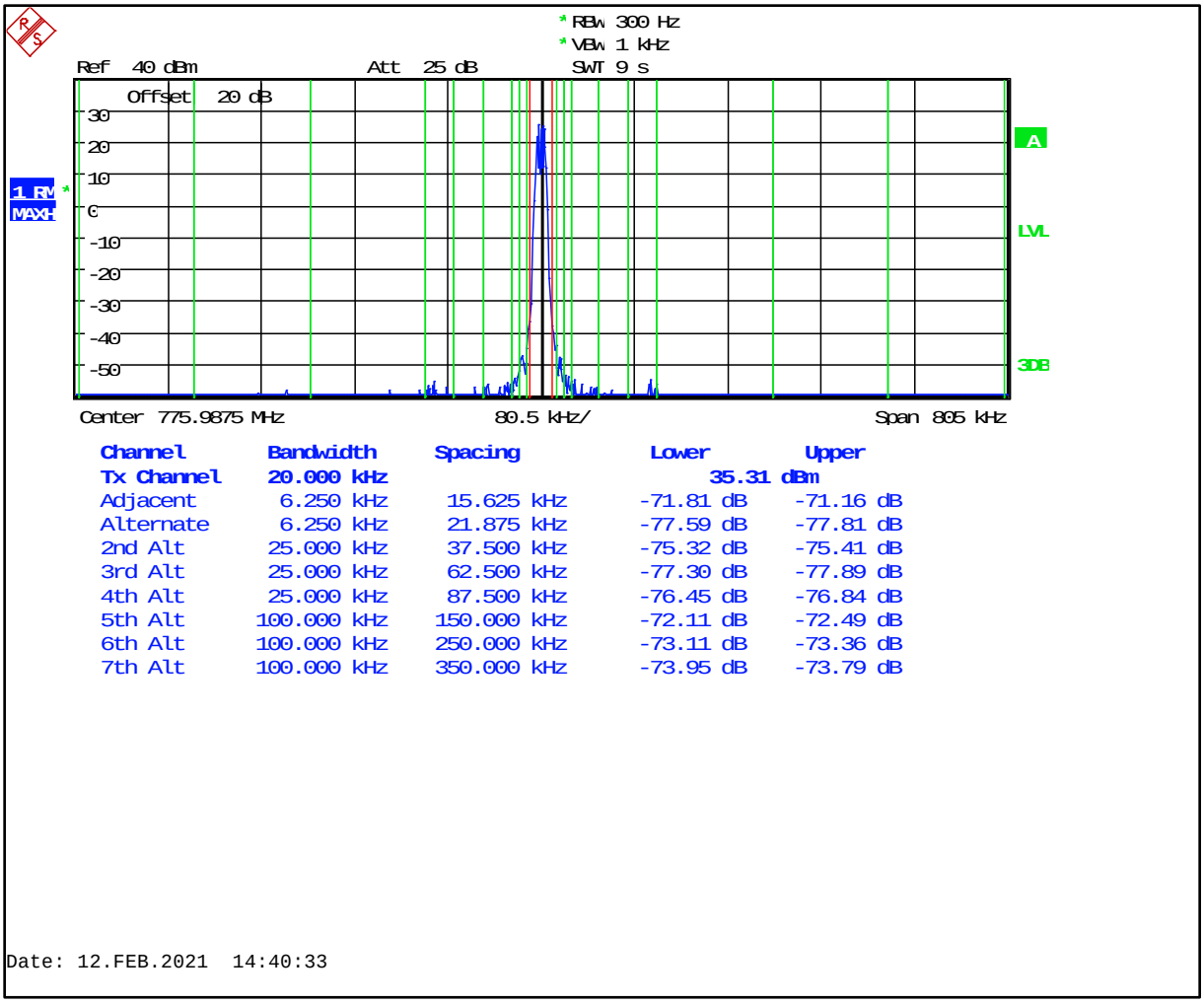


Table 6-25: Adjacent Channel Power - 775.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-78.8
12 MHz to receive band	30(s)	-75	-88.6
In receive band	30(s)	-100	-110.1

Plot 6-26: Adjacent Channel Power - 798.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

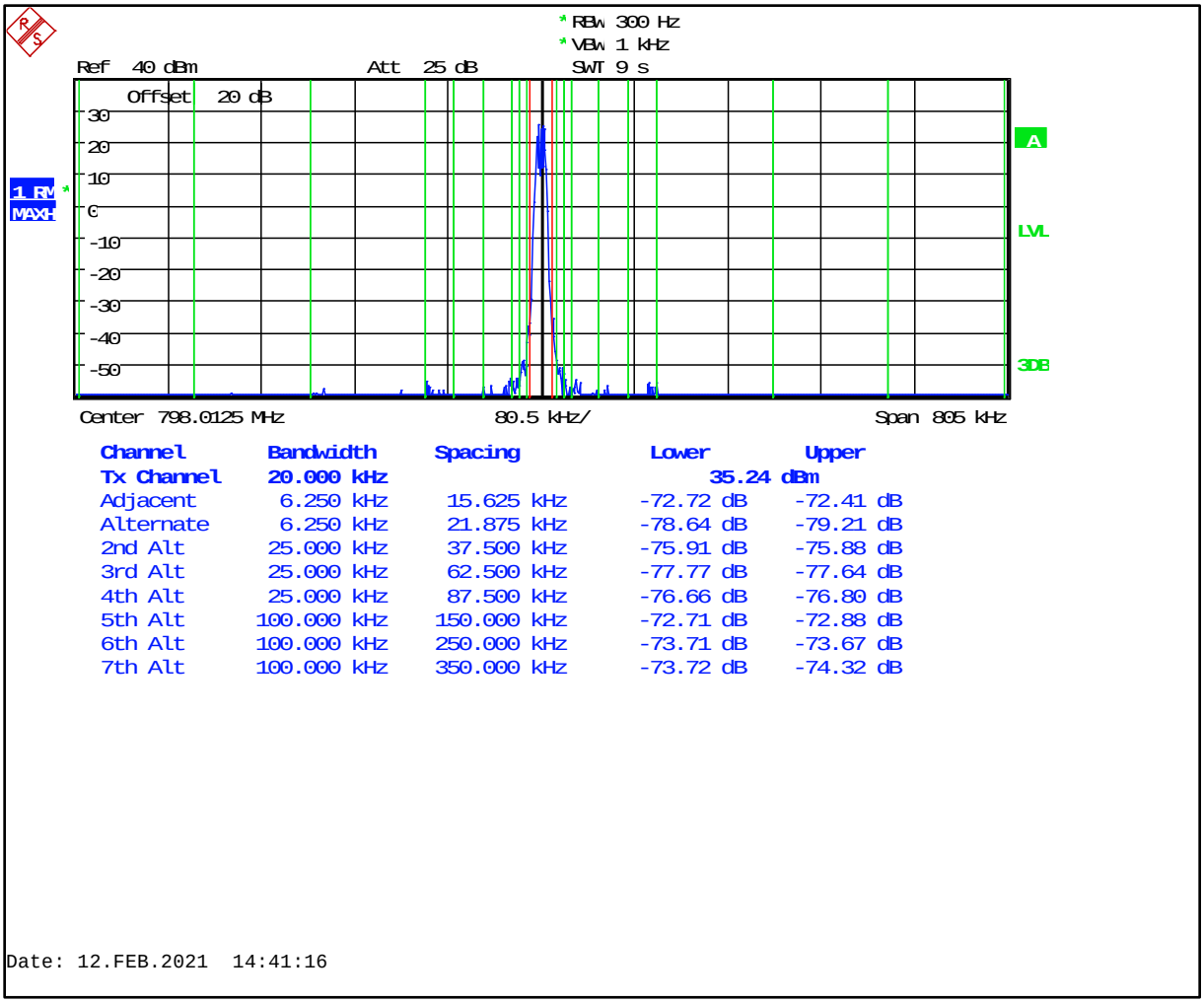


Table 6-26: Adjacent Channel Power - 798.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.9
12 MHz to receive band	30(s)	-75	-96.7
In receive band	30(s)	-100	-104.1

Plot 6-27: Adjacent Channel Power - 799.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

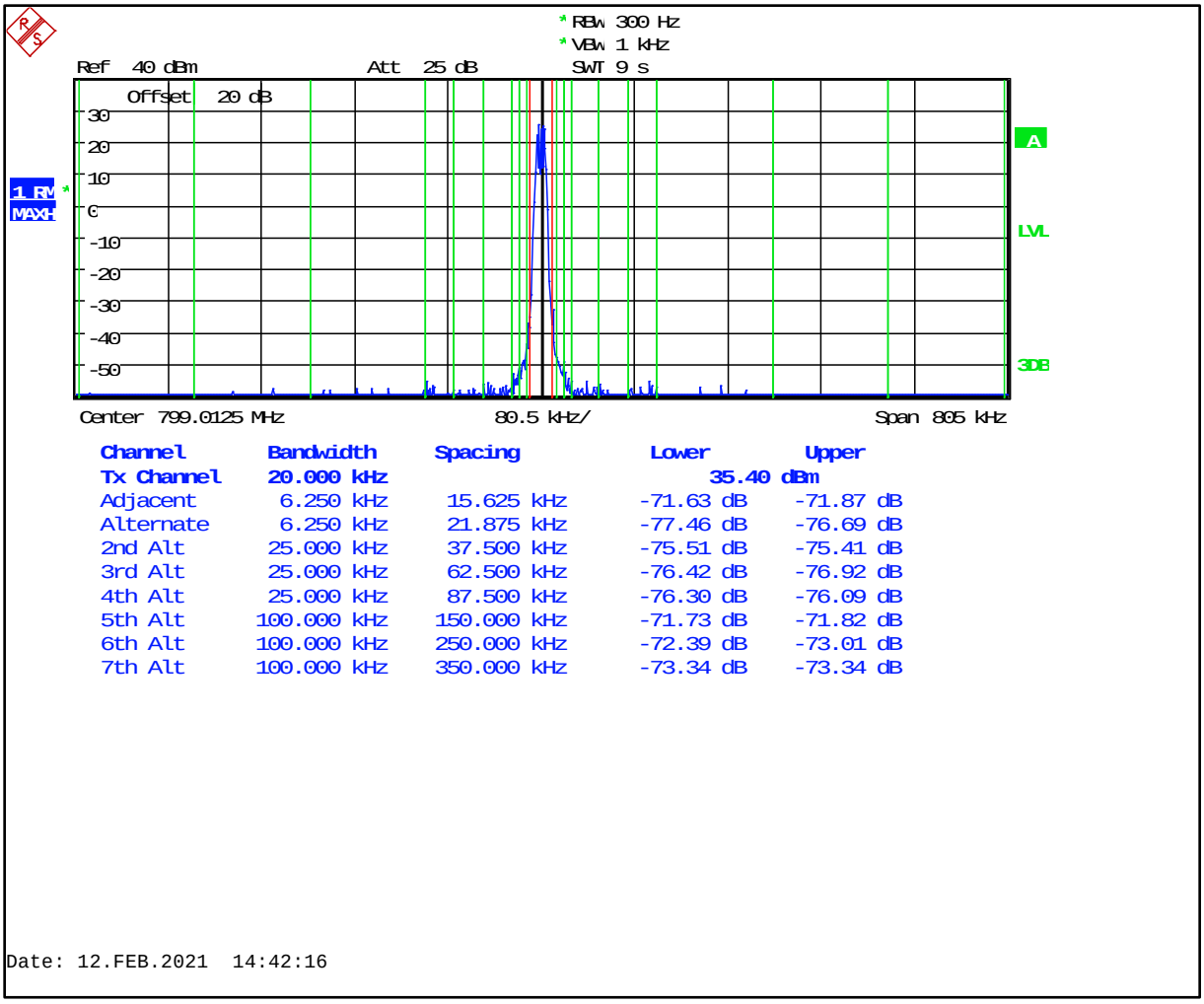


Table 6-27: Adjacent Channel Power - 799.0125 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.8
12 MHz to receive band	30(s)	-75	-95.9
In receive band	30(s)	-100	-103.4

Plot 6-28: Adjacent Channel Power - 802.0000 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

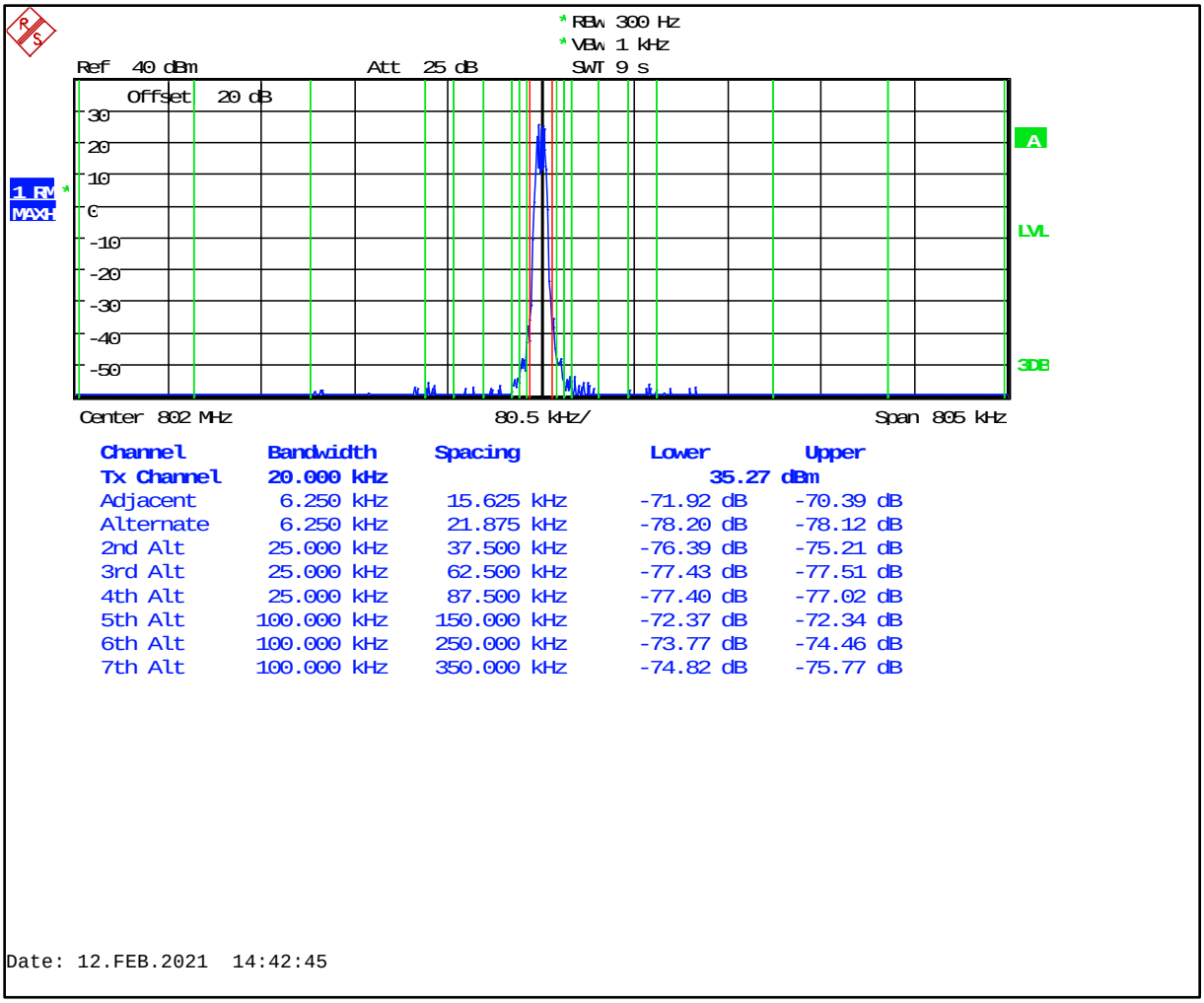


Table 6-28: Adjacent Channel Power - 802.0000 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.7
12 MHz to receive band	30(s)	-75	-92.1
In receive band	30(s)	-100	-106.9

Plot 6-29: Adjacent Channel Power – 804.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

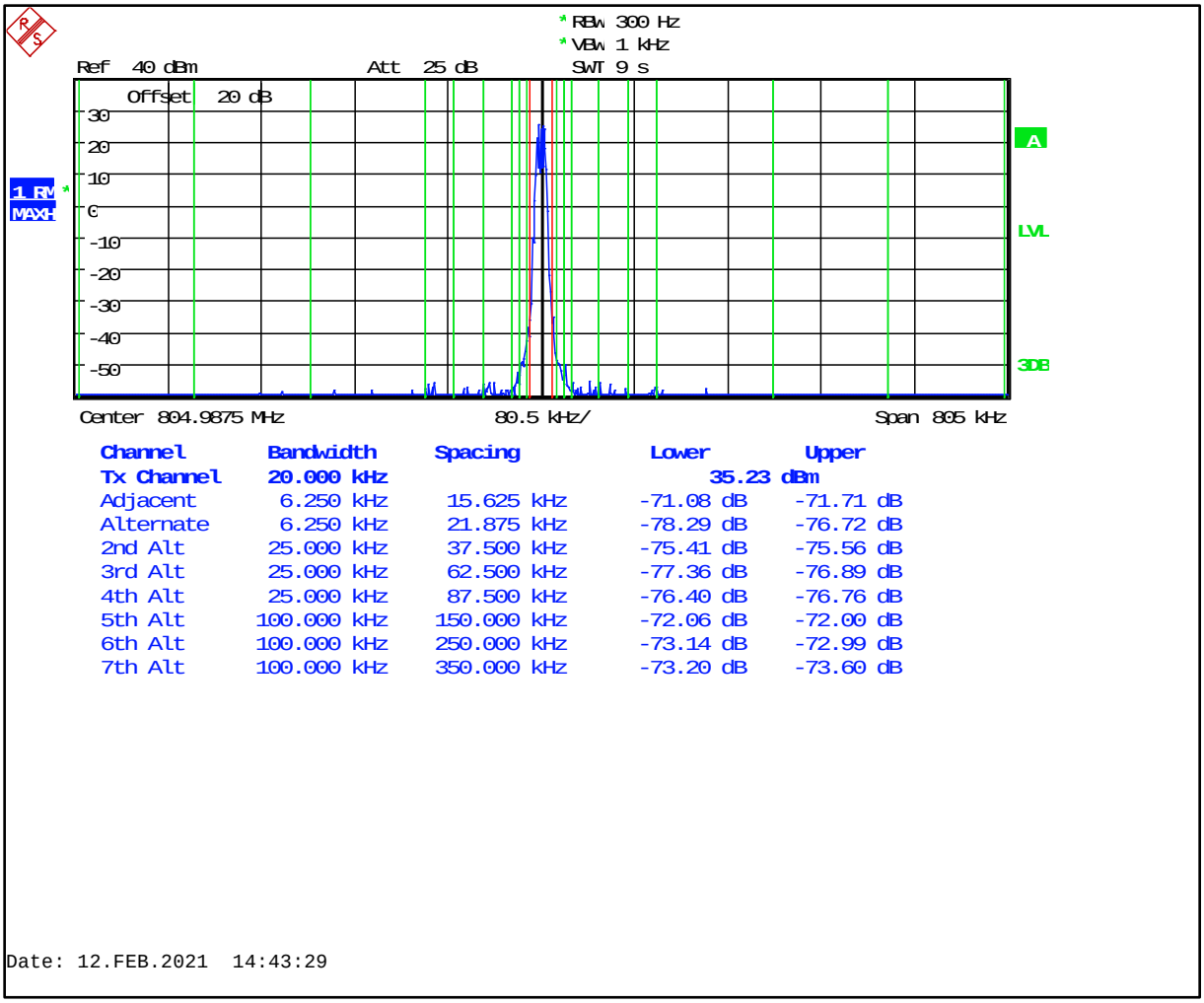


Table 6-29: Adjacent Channel Power – 804.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.0
12 MHz to receive band	30(s)	-75	-97.0
In receive band	30(s)	-100	-105.2

Plot 6-30: Adjacent Channel Power – 805.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

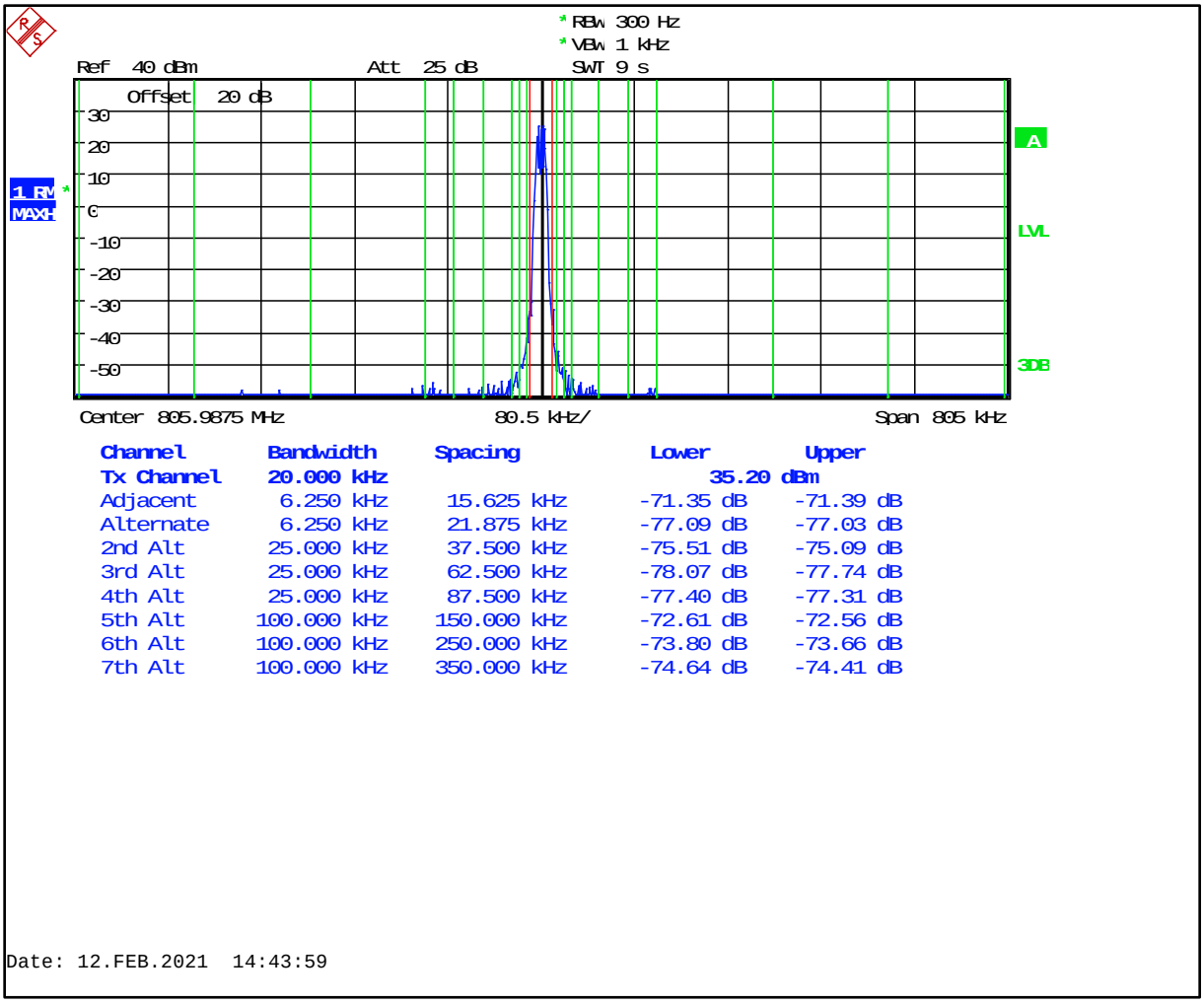


Table 6-30: Adjacent Channel Power – 805.9875 MHz; NPSPAC Analog; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.4
12 MHz to receive band	30(s)	-75	-86.8
In receive band	30(s)	-100	-108.0

Plot 6-31: Adjacent Channel Power - 768.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

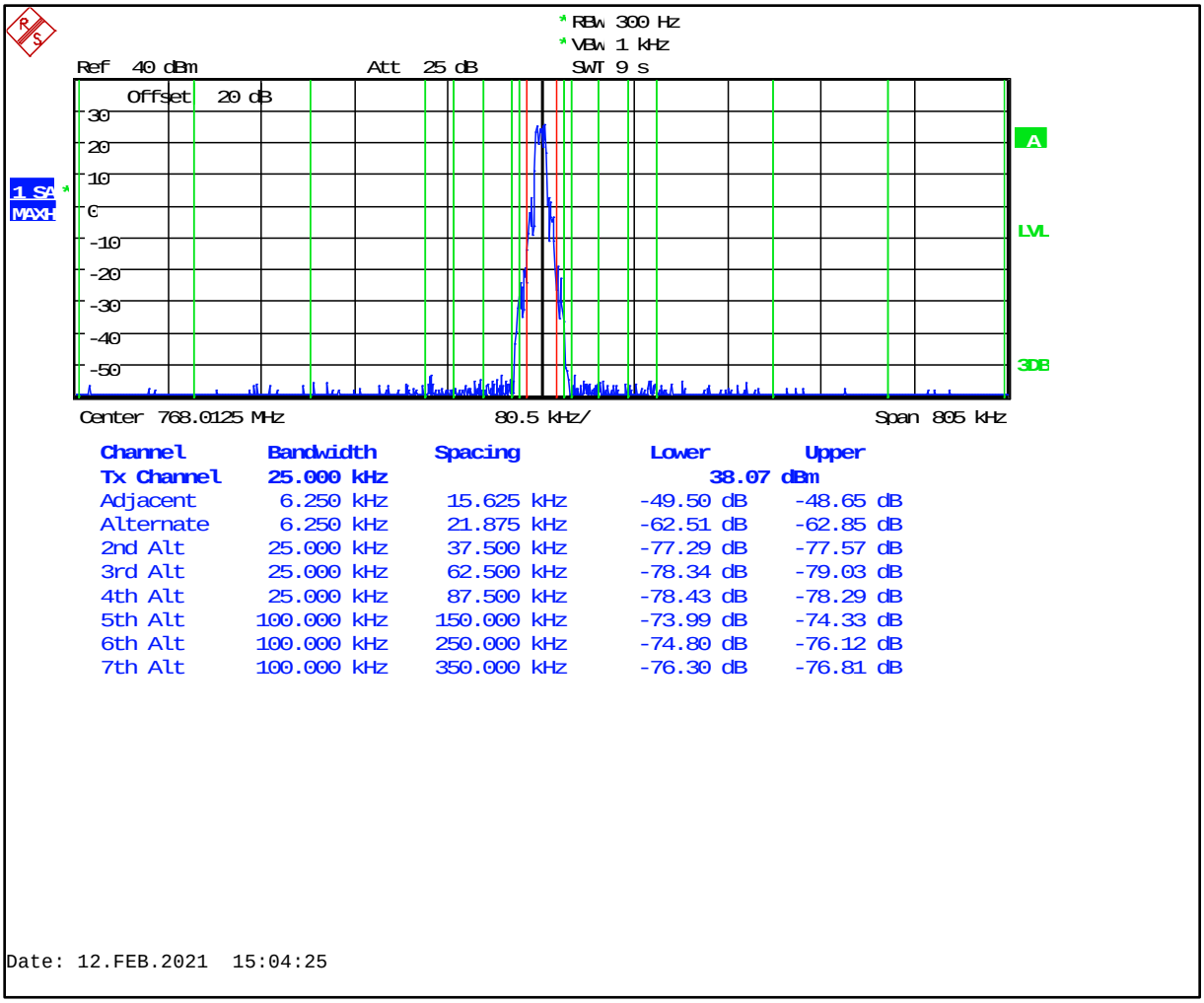


Table 6-31: Adjacent Channel Power - 768.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.9
12 MHz to receive band	30(s)	-75	-98.0
In receive band	30(s)	-100	-118.4

Plot 6-32: Adjacent Channel Power - 769.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

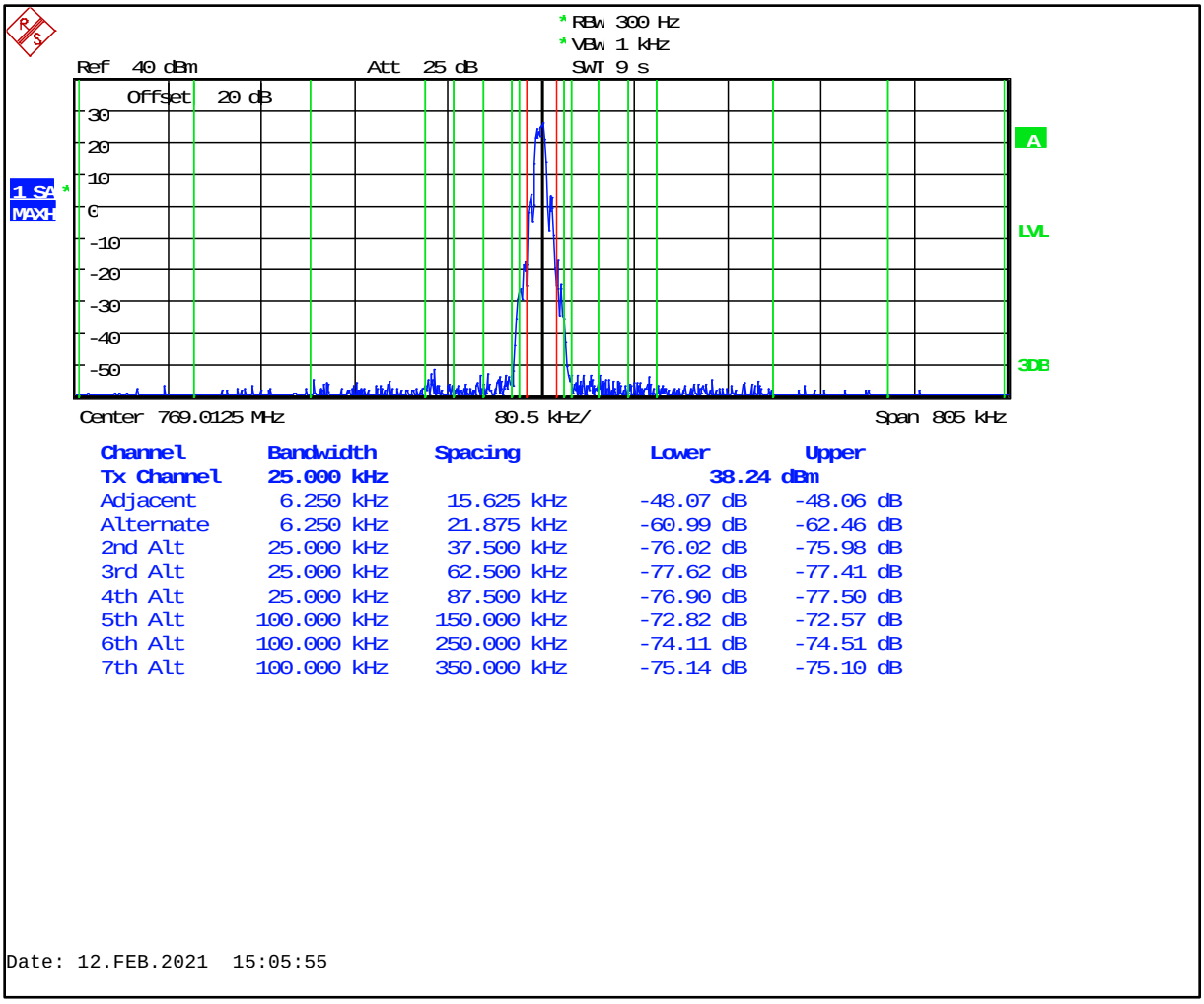


Table 6-32: Adjacent Channel Power - 769.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.2
12 MHz to receive band	30(s)	-75	-105.7
In receive band	30(s)	-100	-118.3

Plot 6-33: Adjacent Channel Power - 772.0000 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

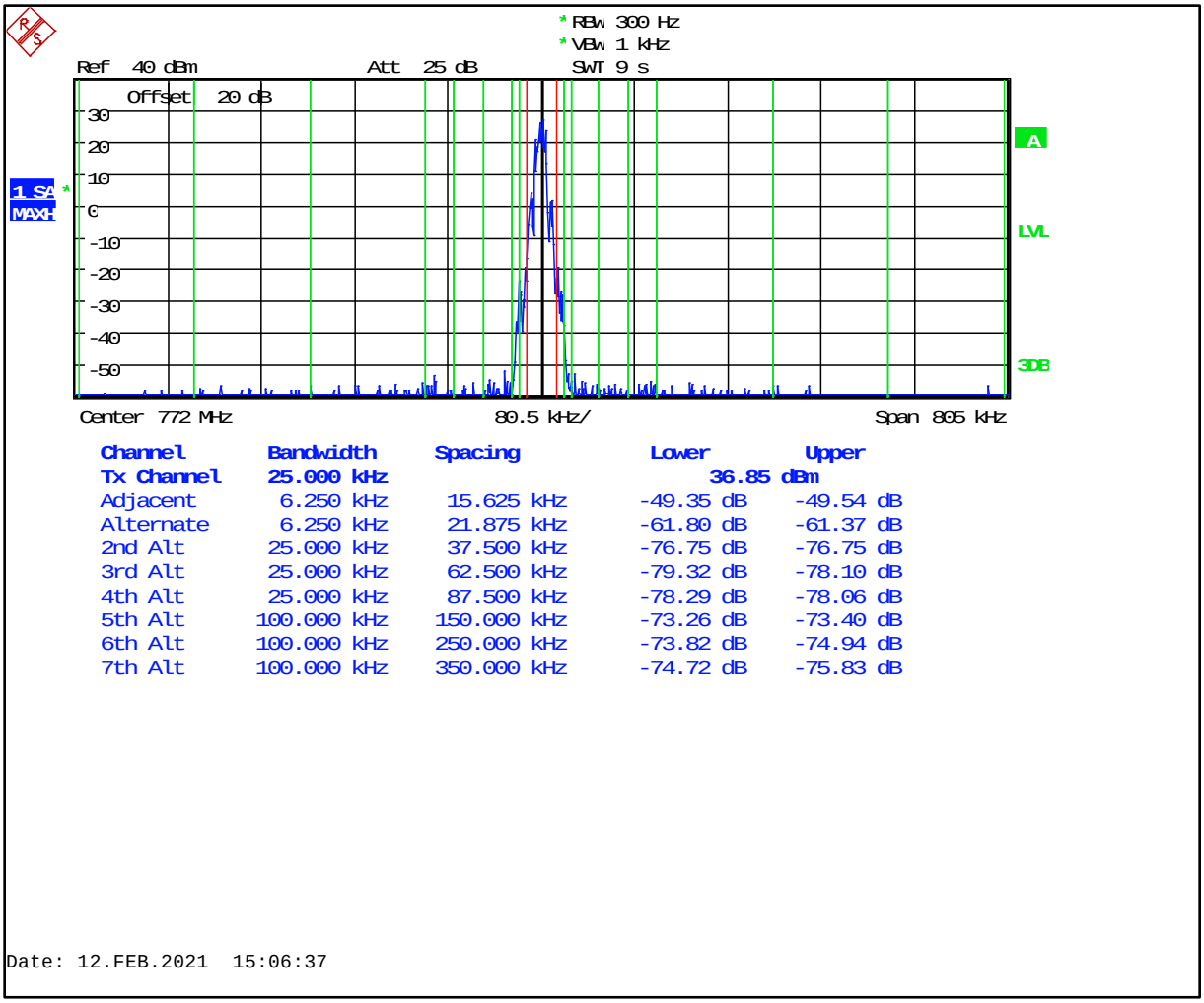


Table 6-33: Adjacent Channel Power - 772.0000 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.7
12 MHz to receive band	30(s)	-75	-106.5
In receive band	30(s)	-100	-117.6

Plot 6-34: Adjacent Channel Power - 774.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

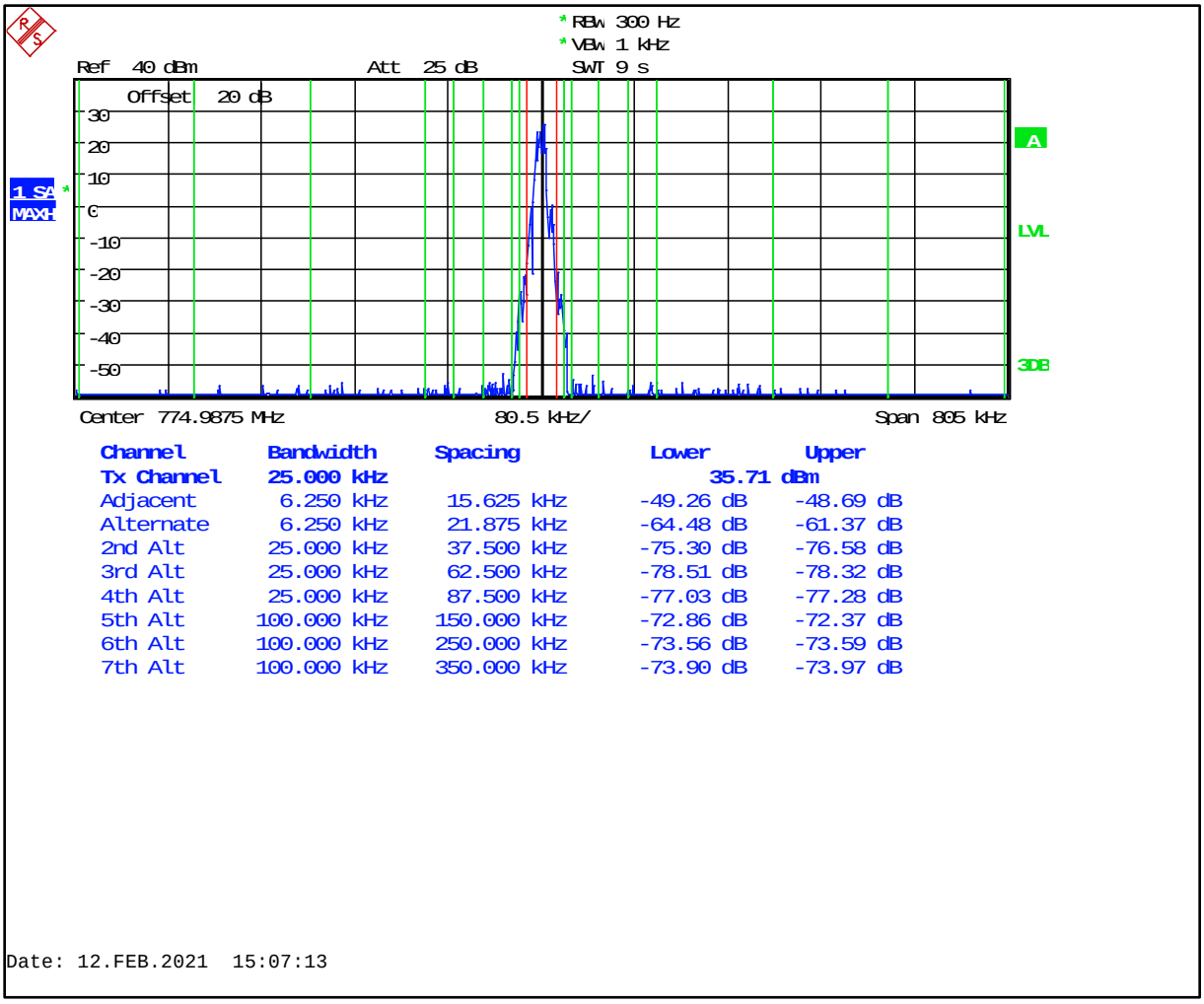


Table 6-34: Adjacent Channel Power - 774.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.4
12 MHz to receive band	30(s)	-75	-106.8
In receive band	30(s)	-100	-117.1

Plot 6-35: Adjacent Channel Power - 775.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

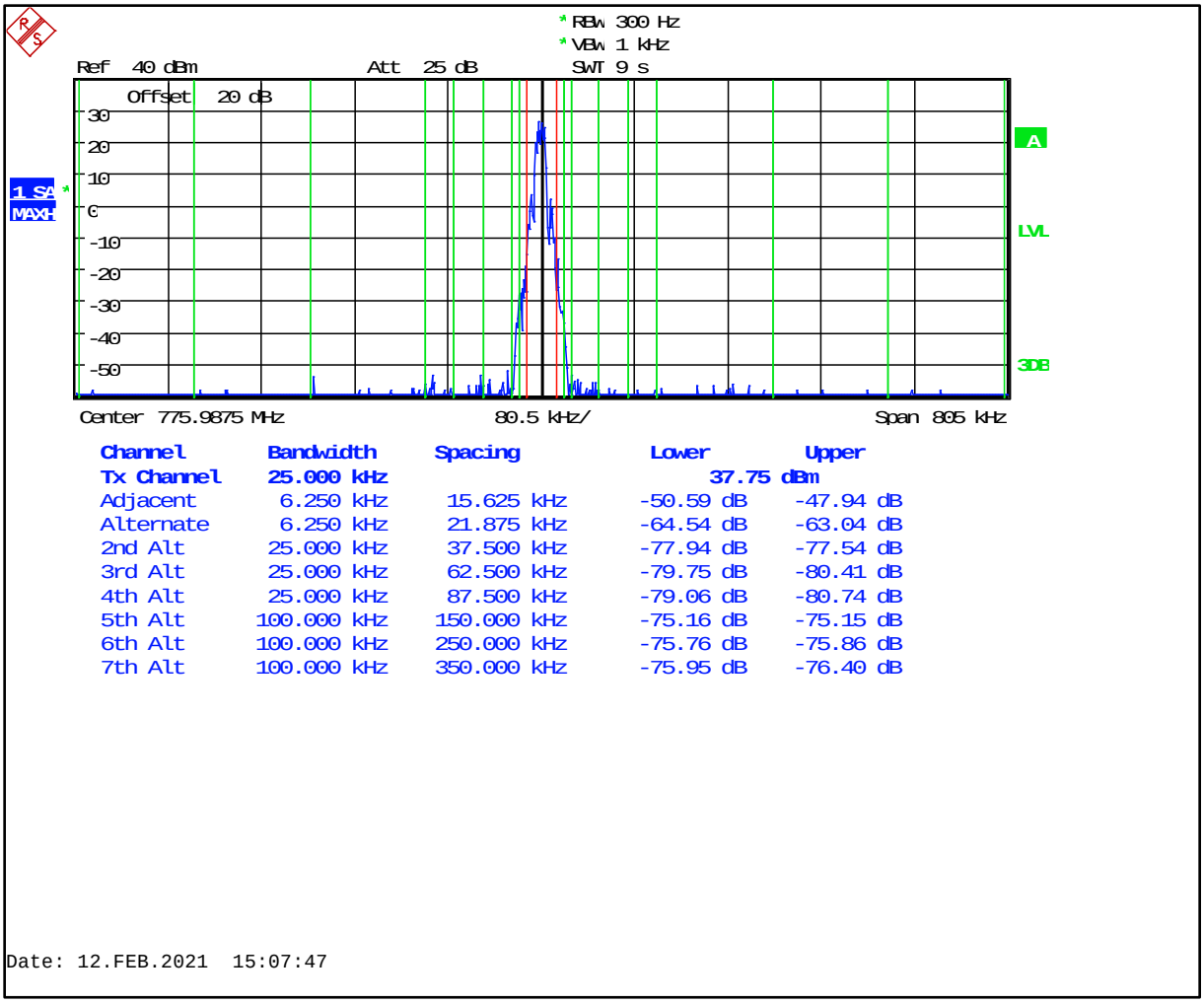


Table 6-35: Adjacent Channel Power - 775.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.8
12 MHz to receive band	30(s)	-75	-105.5
In receive band	30(s)	-100	-117.2

Plot 6-36: Adjacent Channel Power - 798.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

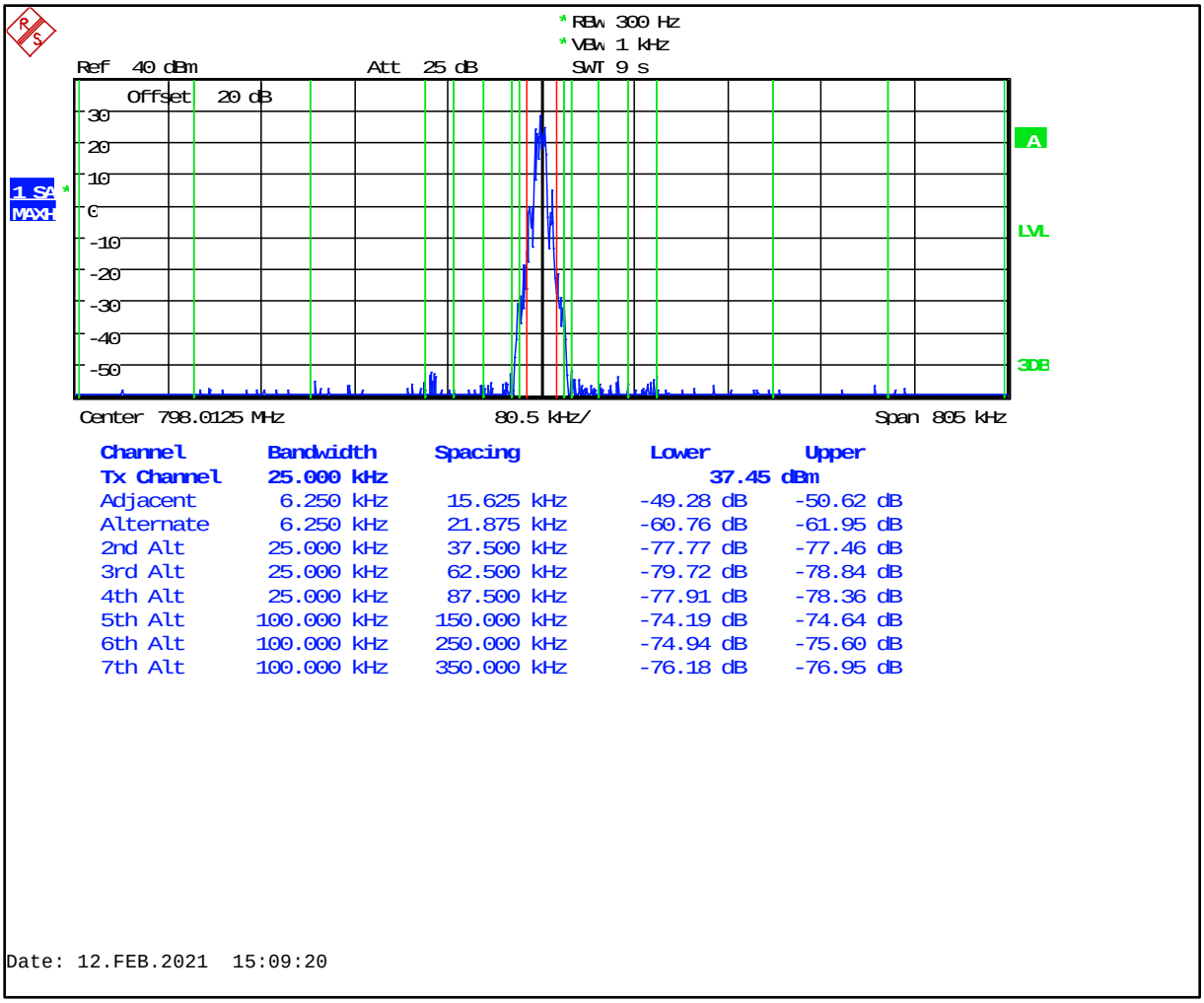


Table 6-36: Adjacent Channel Power - 798.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.8
12 MHz to receive band	30(s)	-75	-101.6
In receive band	30(s)	-100	-104.1

Plot 6-37: Adjacent Channel Power - 799.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

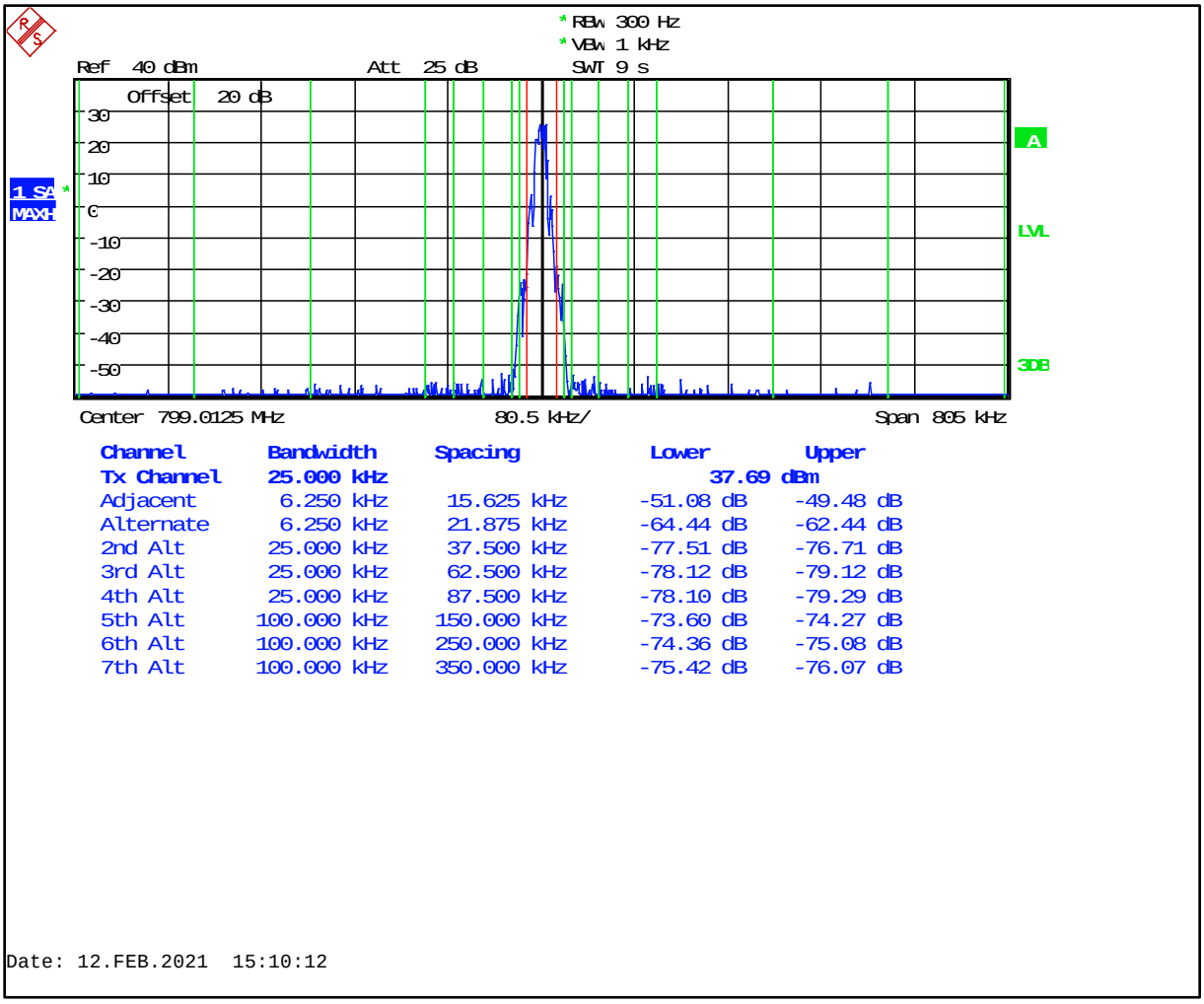


Table 6-37: Adjacent Channel Power - 799.0125 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.6
12 MHz to receive band	30(s)	-75	-98.4
In receive band	30(s)	-100	-106.6

Plot 6-38: Adjacent Channel Power - 802.0000 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

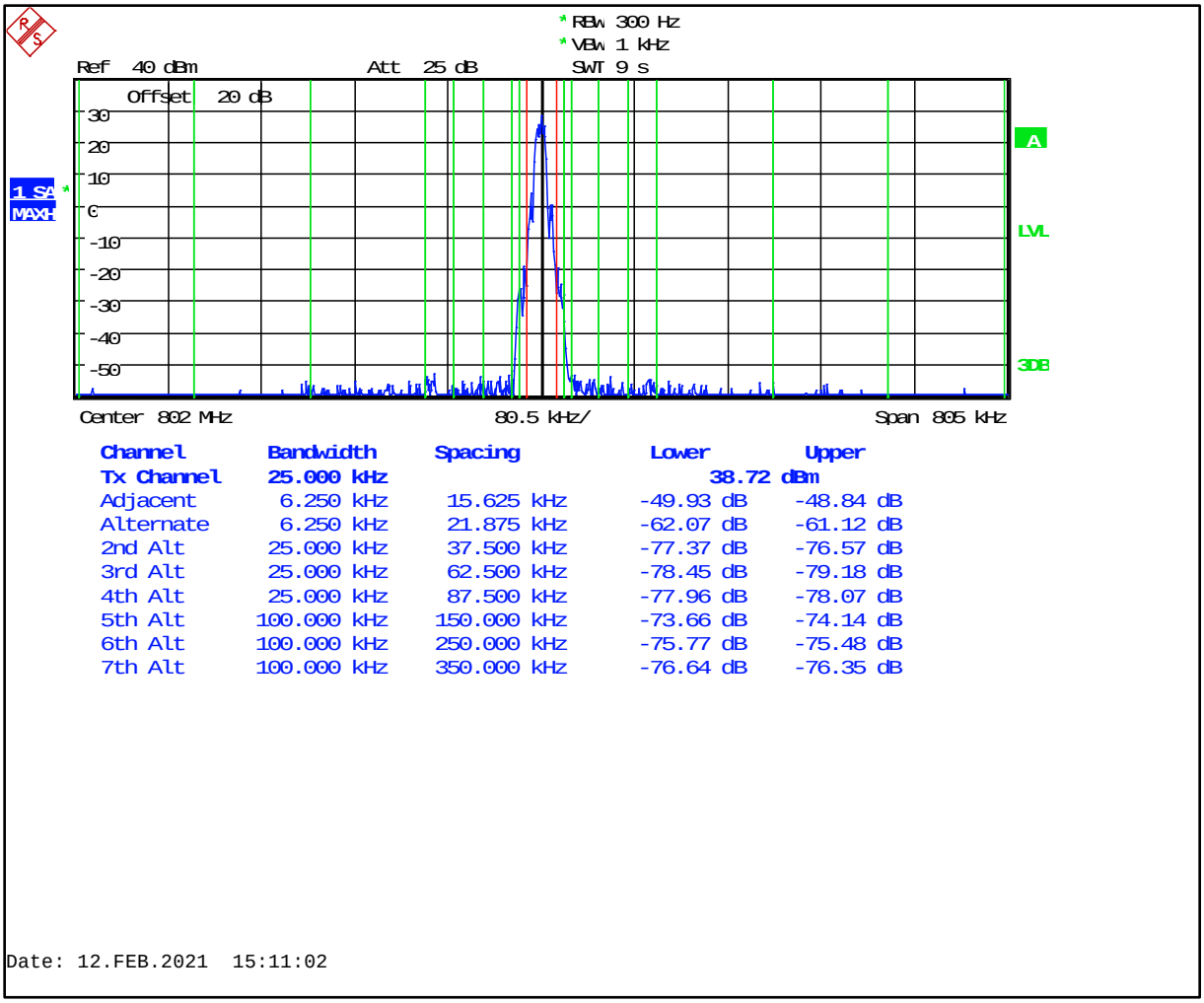


Table 6-38: Adjacent Channel Power - 802.0000 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.6
12 MHz to receive band	30(s)	-75	-98.4
In receive band	30(s)	-100	-106.6

Plot 6-39: Adjacent Channel Power – 804.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

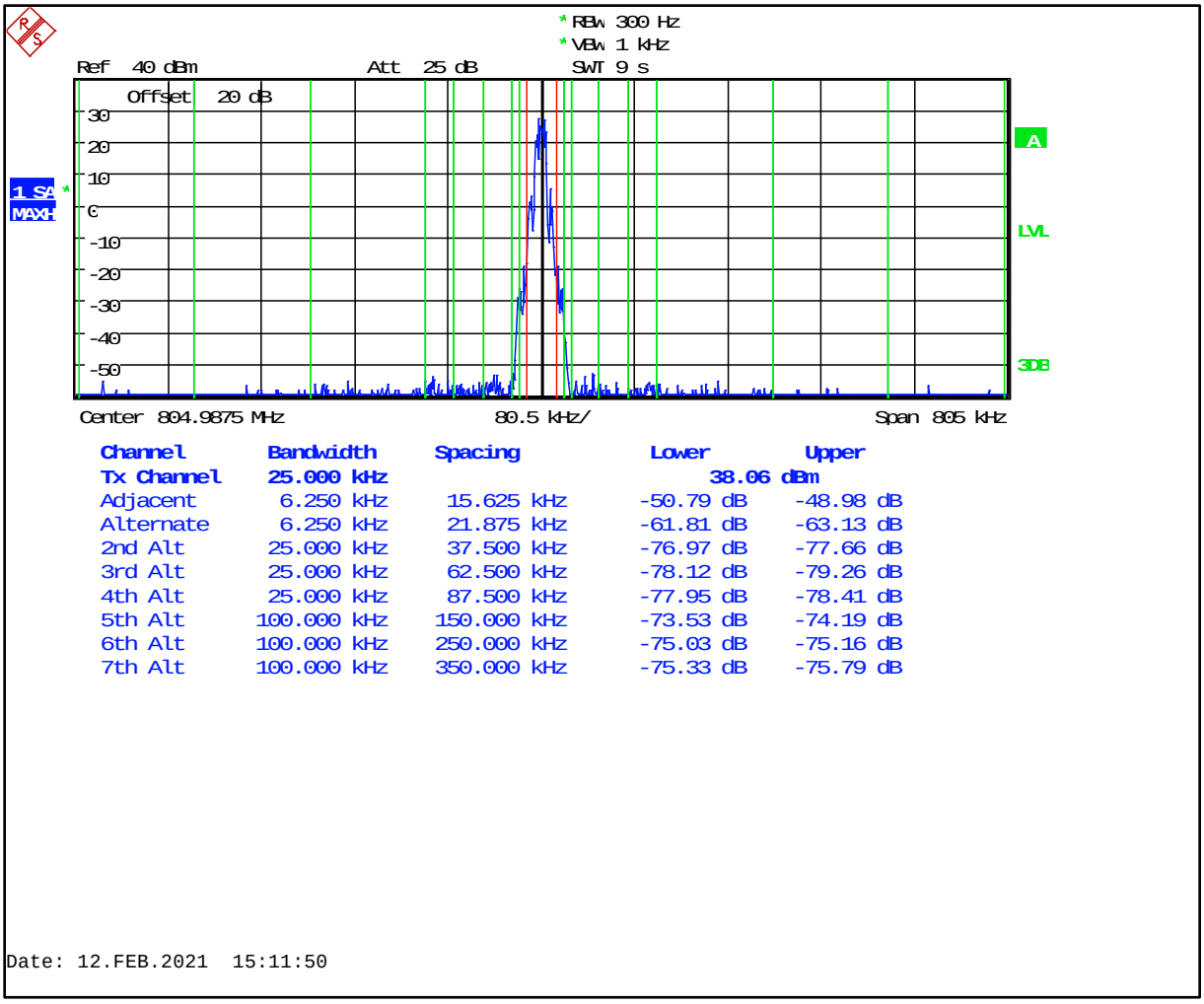


Table 6-39: Adjacent Channel Power – 804.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.0
12 MHz to receive band	30(s)	-75	-96.6
In receive band	30(s)	-100	-110.8

Plot 6-40: Adjacent Channel Power – 805.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

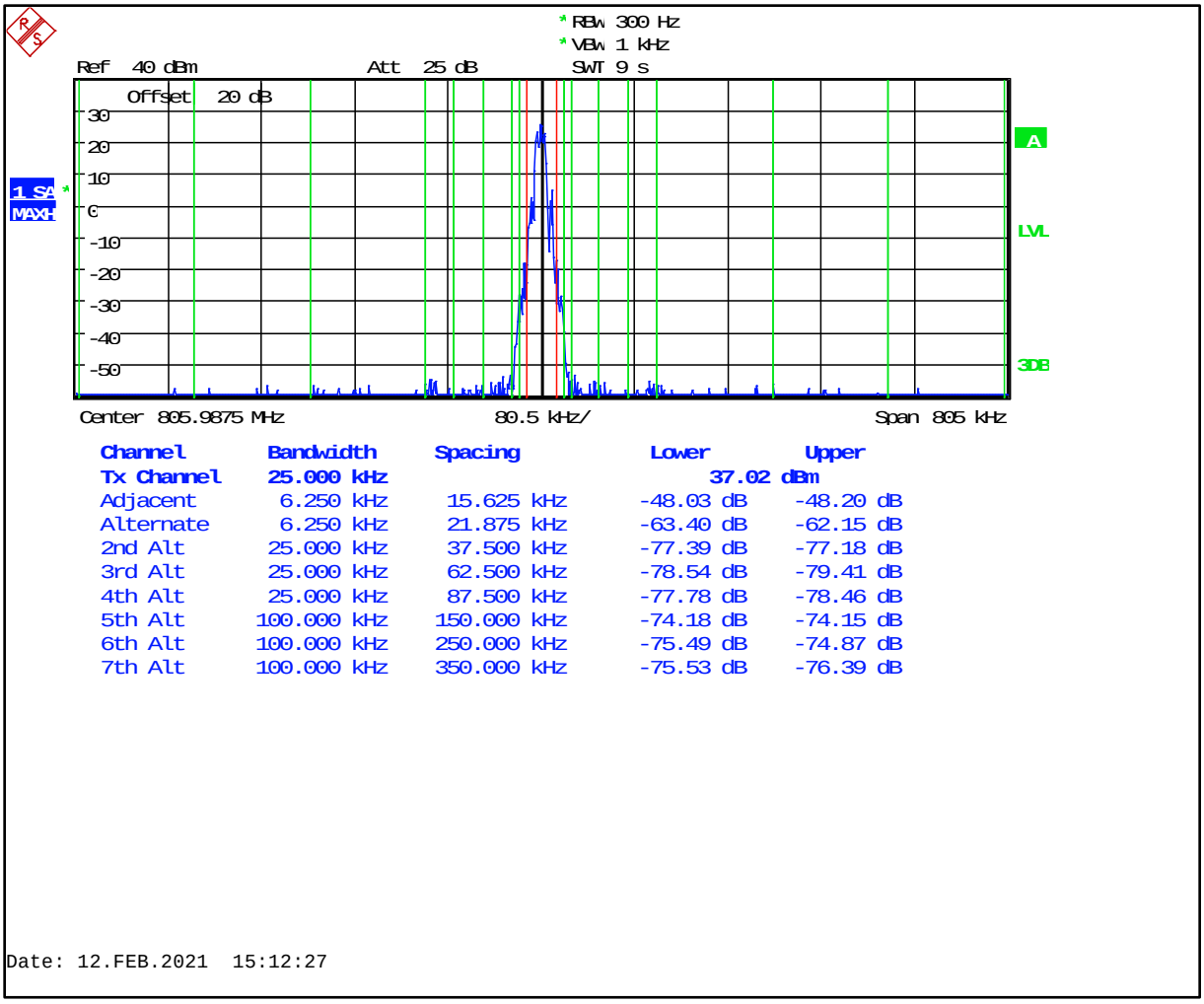


Table 6-40: Adjacent Channel Power – 805.9875 MHz; 2-level FSK 9600; 25.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.2
12 MHz to receive band	30(s)	-75	-96.2
In receive band	30(s)	-100	-114.1

Plot 6-41: Adjacent Channel Power - 768.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

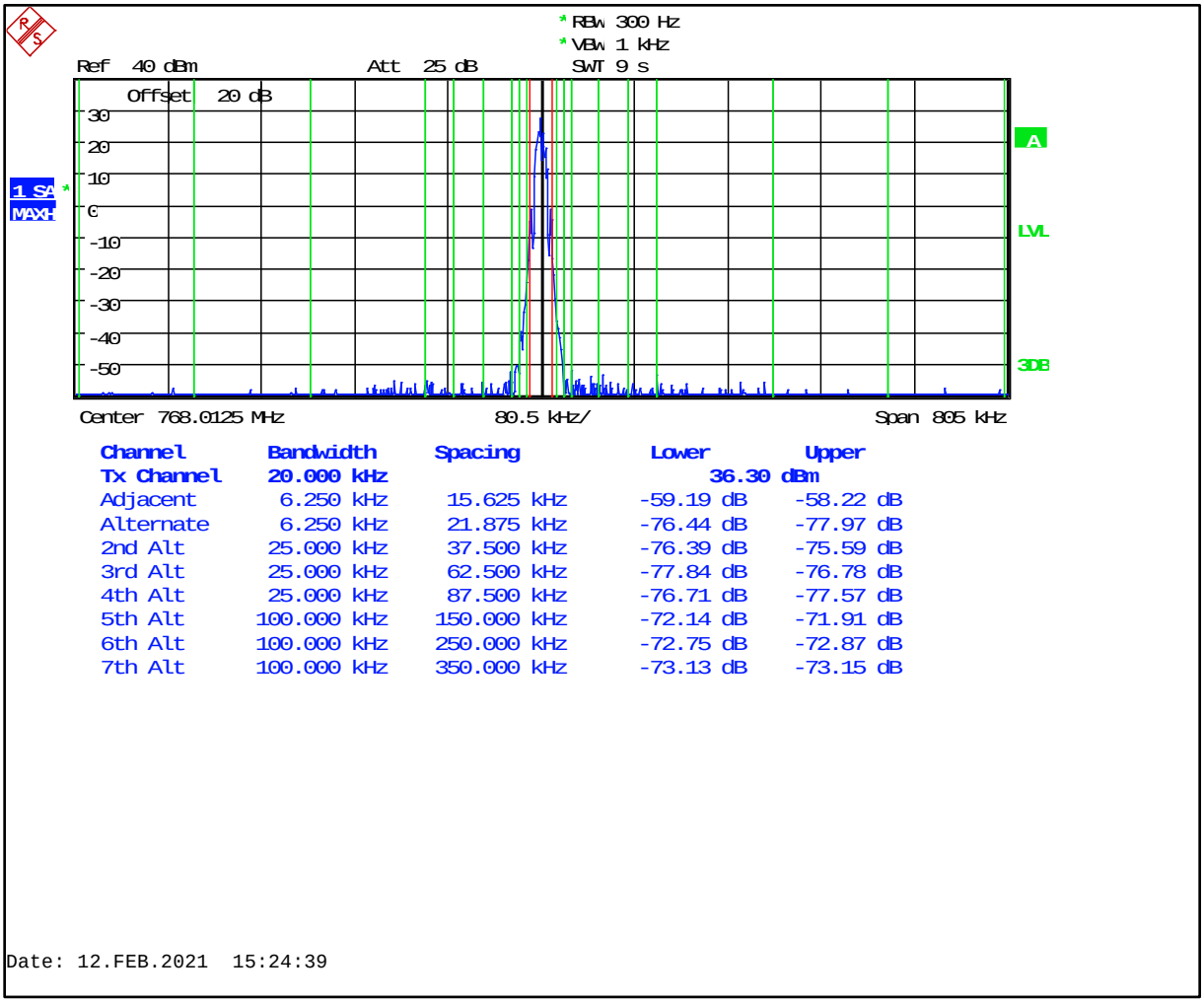


Table 6-41: Adjacent Channel Power - 768.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.3
12 MHz to receive band	30(s)	-75	-97.6
In receive band	30(s)	-100	-118.9

Plot 6-42: Adjacent Channel Power - 769.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

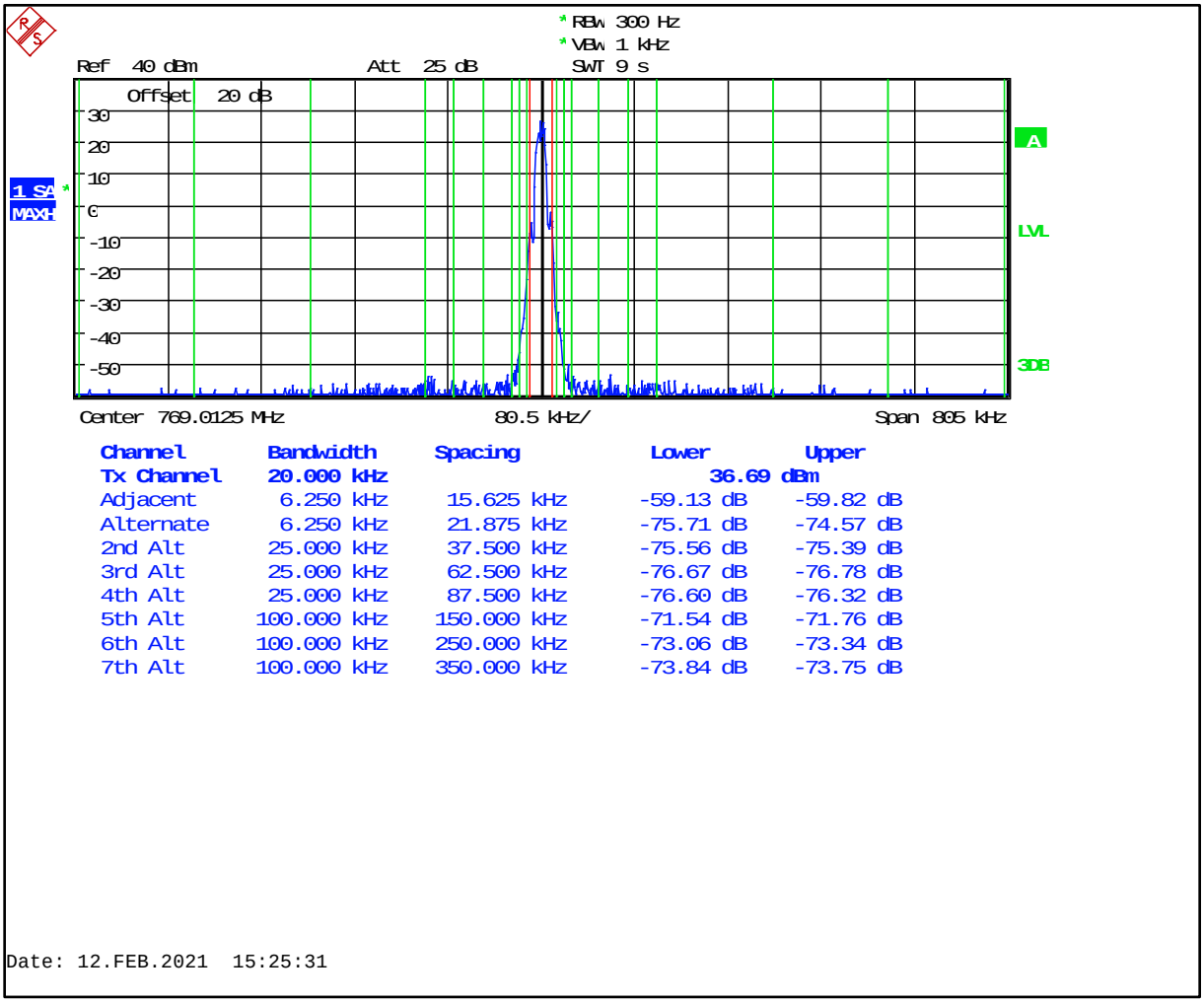


Table 6-42: Adjacent Channel Power - 769.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.3
12 MHz to receive band	30(s)	-75	-104.8
In receive band	30(s)	-100	-117.7

Plot 6-43: Adjacent Channel Power - 772.0000 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

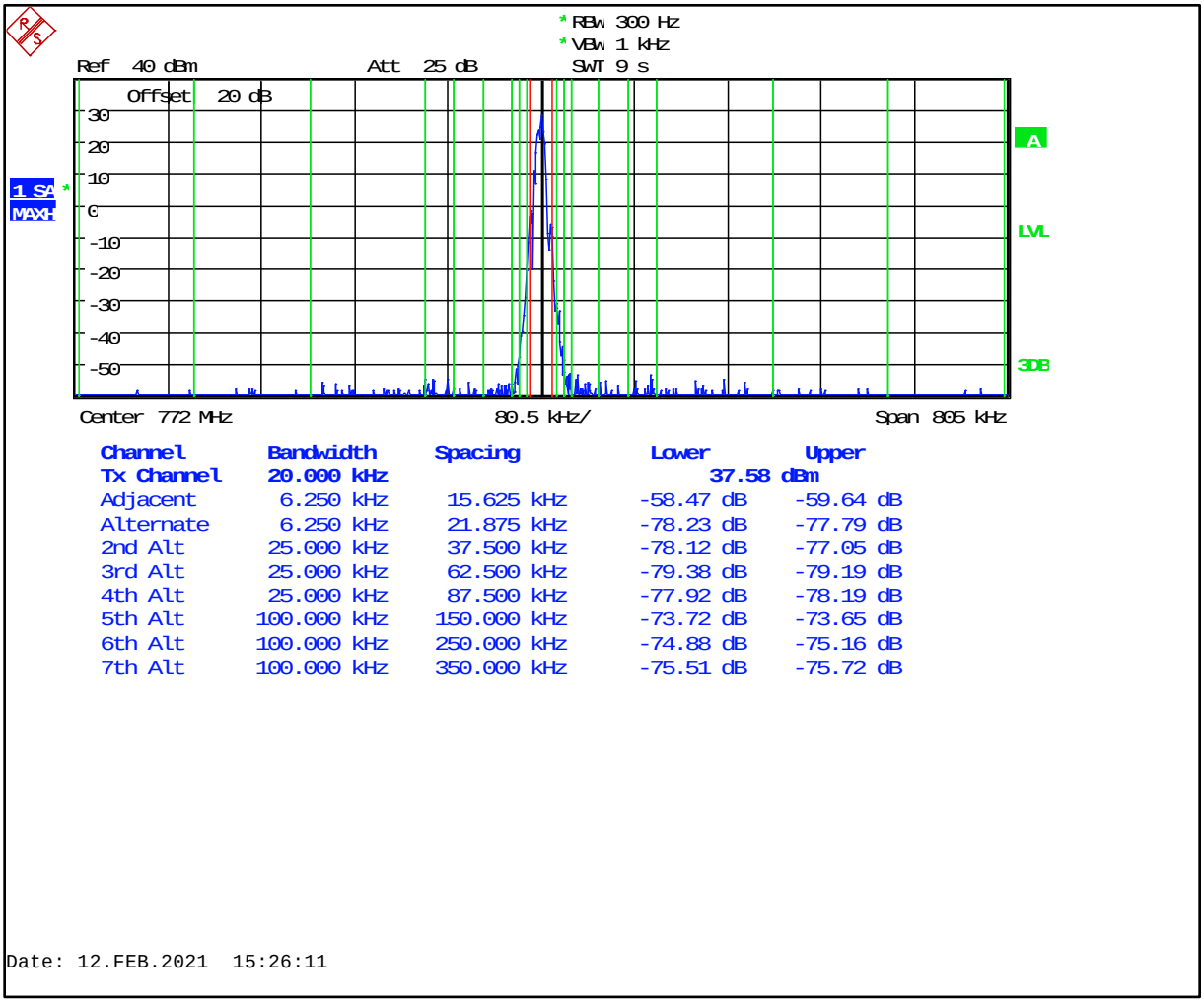


Table 6-43: Adjacent Channel Power - 772.0000 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.2
12 MHz to receive band	30(s)	-75	-106.7
In receive band	30(s)	-100	-117.4

Plot 6-44: Adjacent Channel Power - 774.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

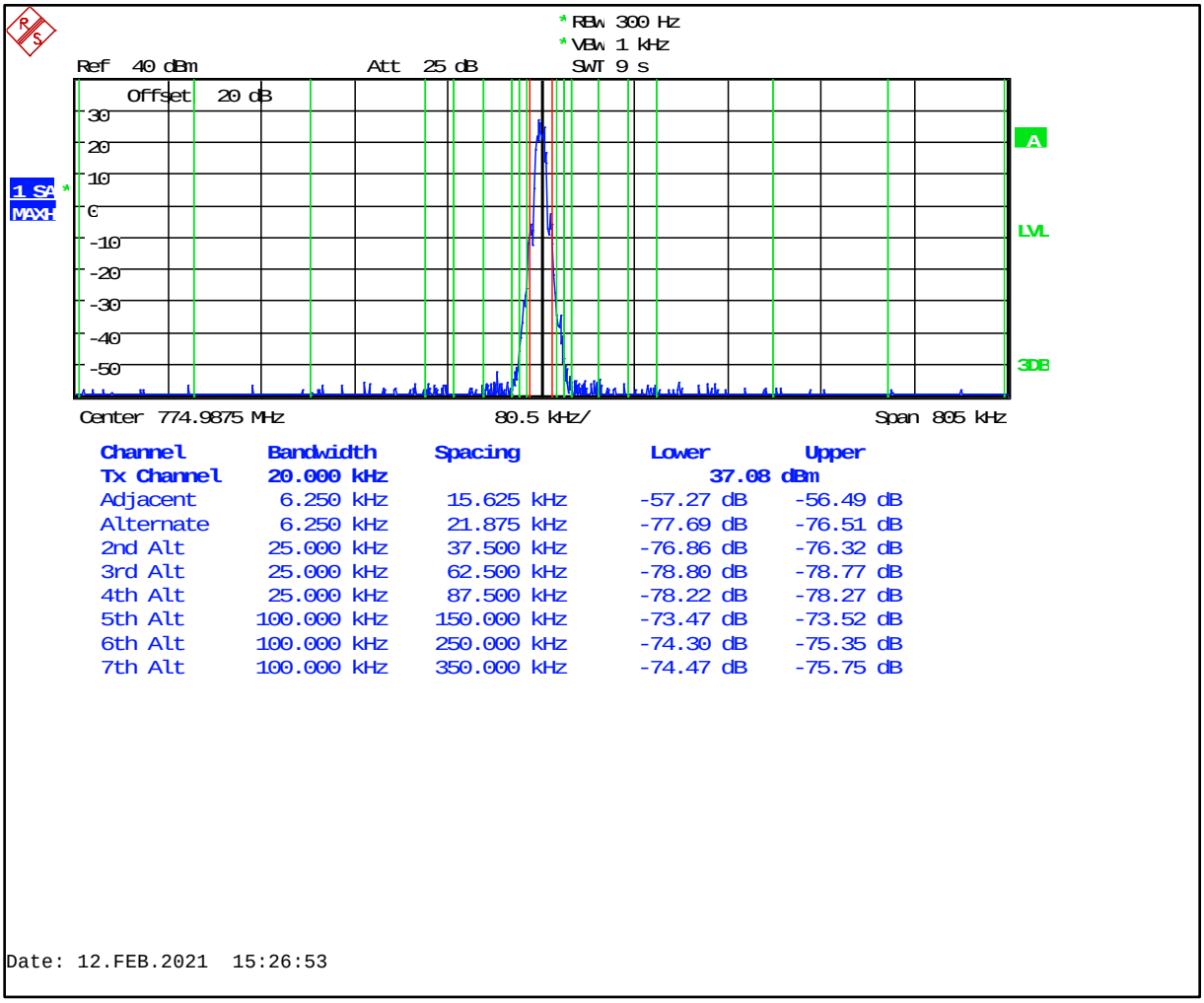


Table 6-44: Adjacent Channel Power - 774.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.1
12 MHz to receive band	30(s)	-75	-106.3
In receive band	30(s)	-100	-116.9

Plot 6-45: Adjacent Channel Power - 775.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

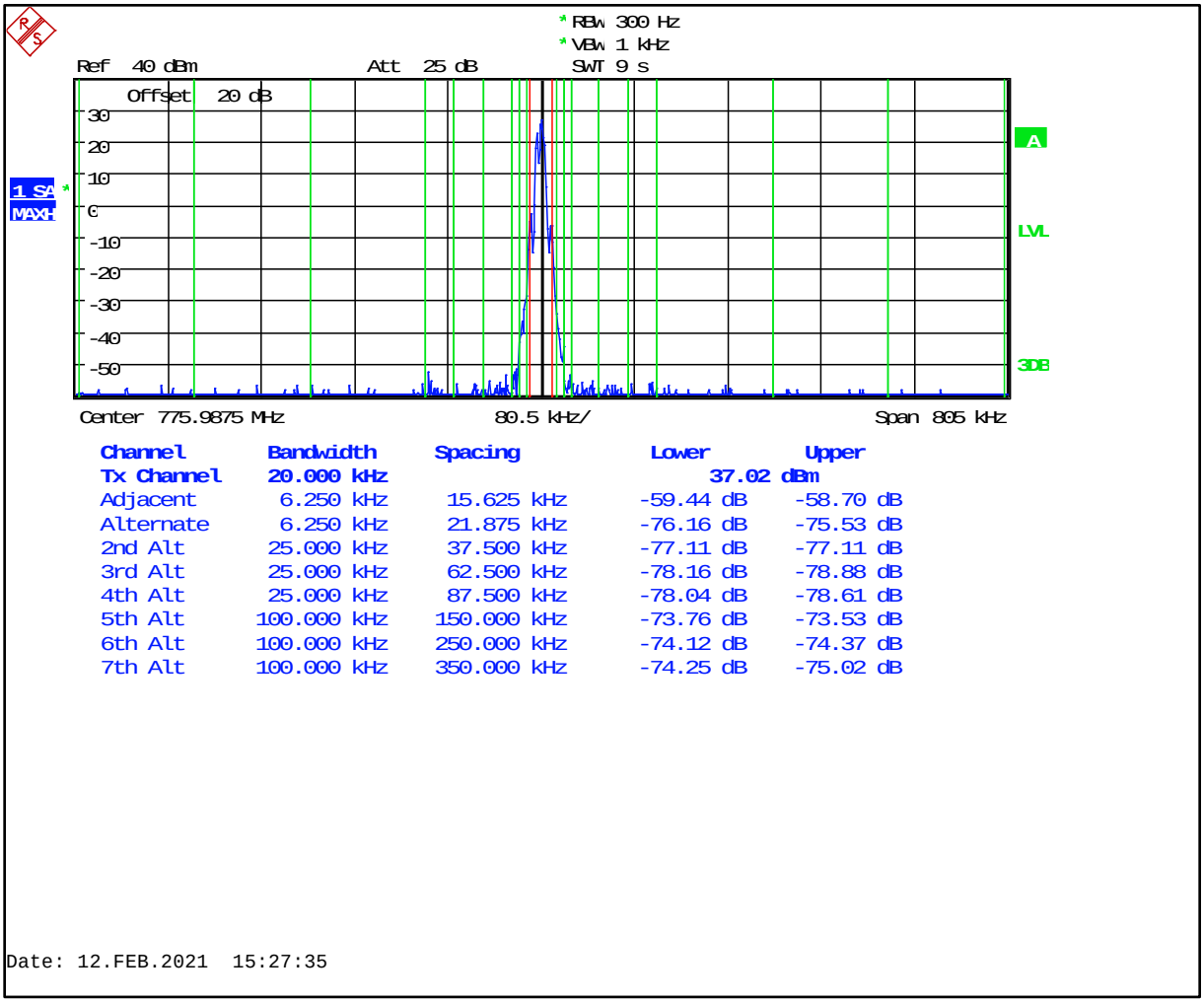


Table 6-45: Adjacent Channel Power - 775.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.5
12 MHz to receive band	30(s)	-75	-106.2
In receive band	30(s)	-100	-116.7

Plot 6-46: Adjacent Channel Power - 798.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

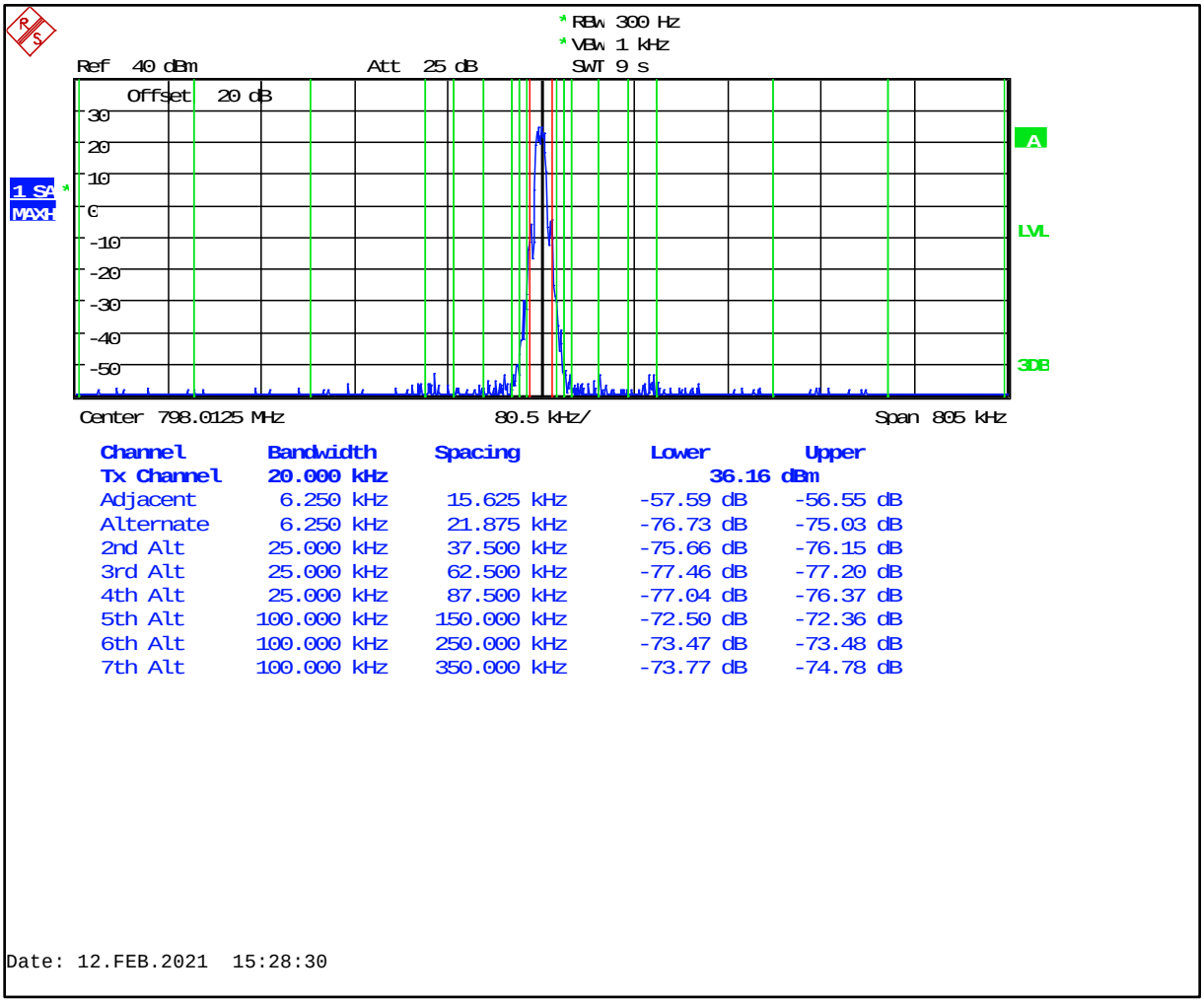


Table 6-46: Adjacent Channel Power - 798.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.2
12 MHz to receive band	30(s)	-75	-101.1
In receive band	30(s)	-100	-104.4

Plot 6-47: Adjacent Channel Power - 799.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

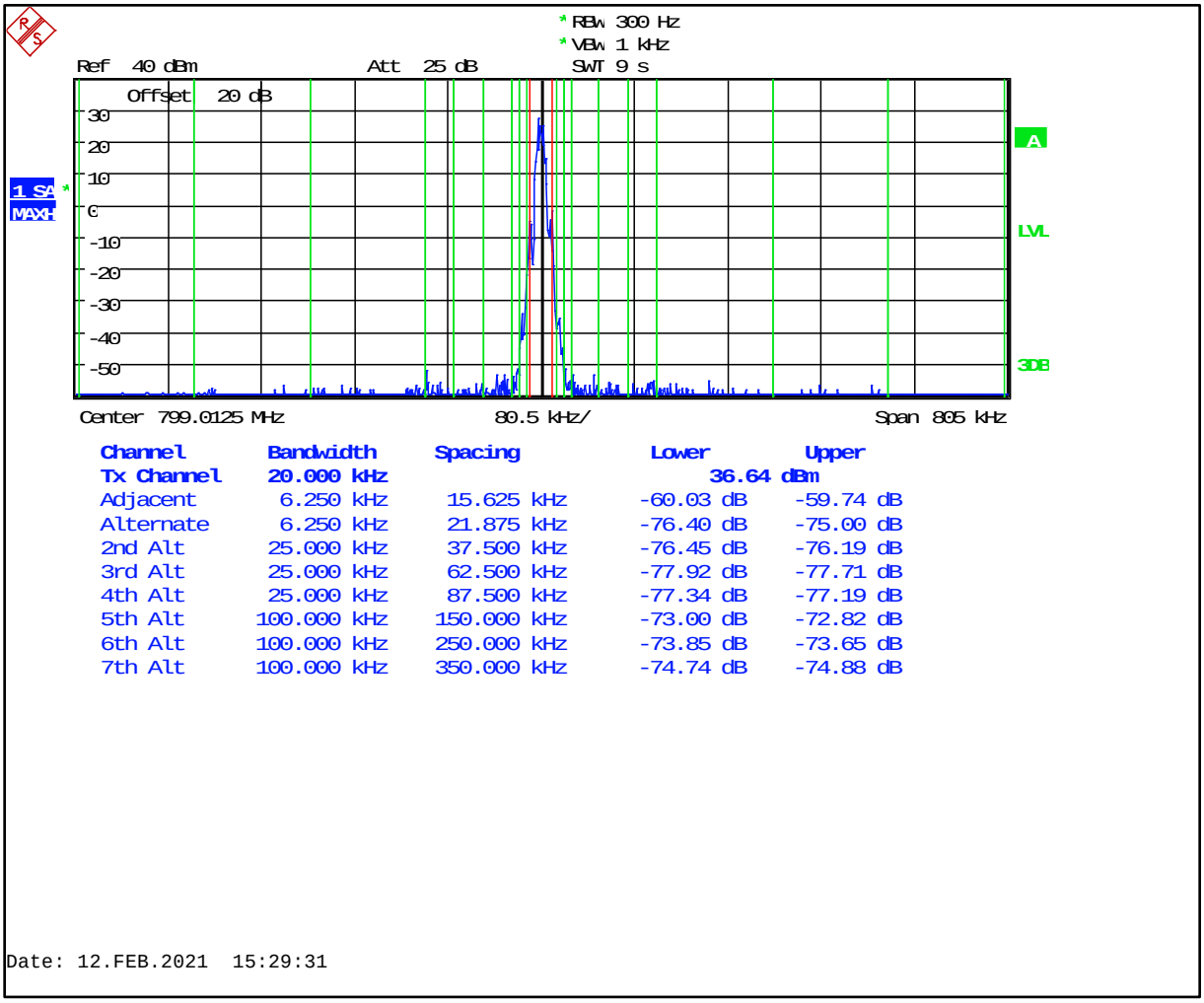


Table 6-47: Adjacent Channel Power - 799.0125 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.6
12 MHz to receive band	30(s)	-75	-99.2
In receive band	30(s)	-100	-106.1

Plot 6-48: Adjacent Channel Power - 802.0000 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

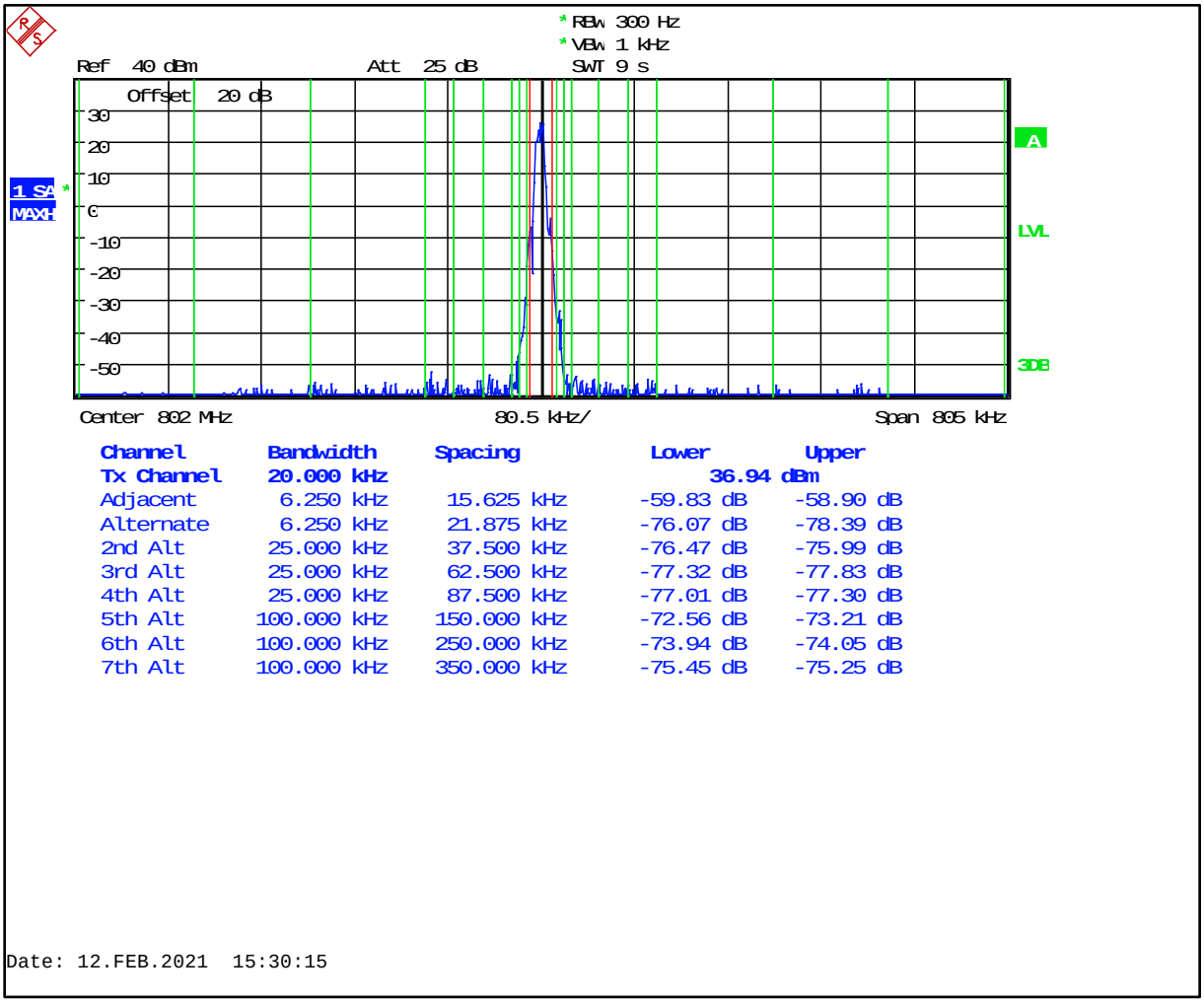


Table 6-48: Adjacent Channel Power - 802.0000 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.7
12 MHz to receive band	30(s)	-75	-97.6
In receive band	30(s)	-100	-109.8

Plot 6-49: Adjacent Channel Power – 804.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

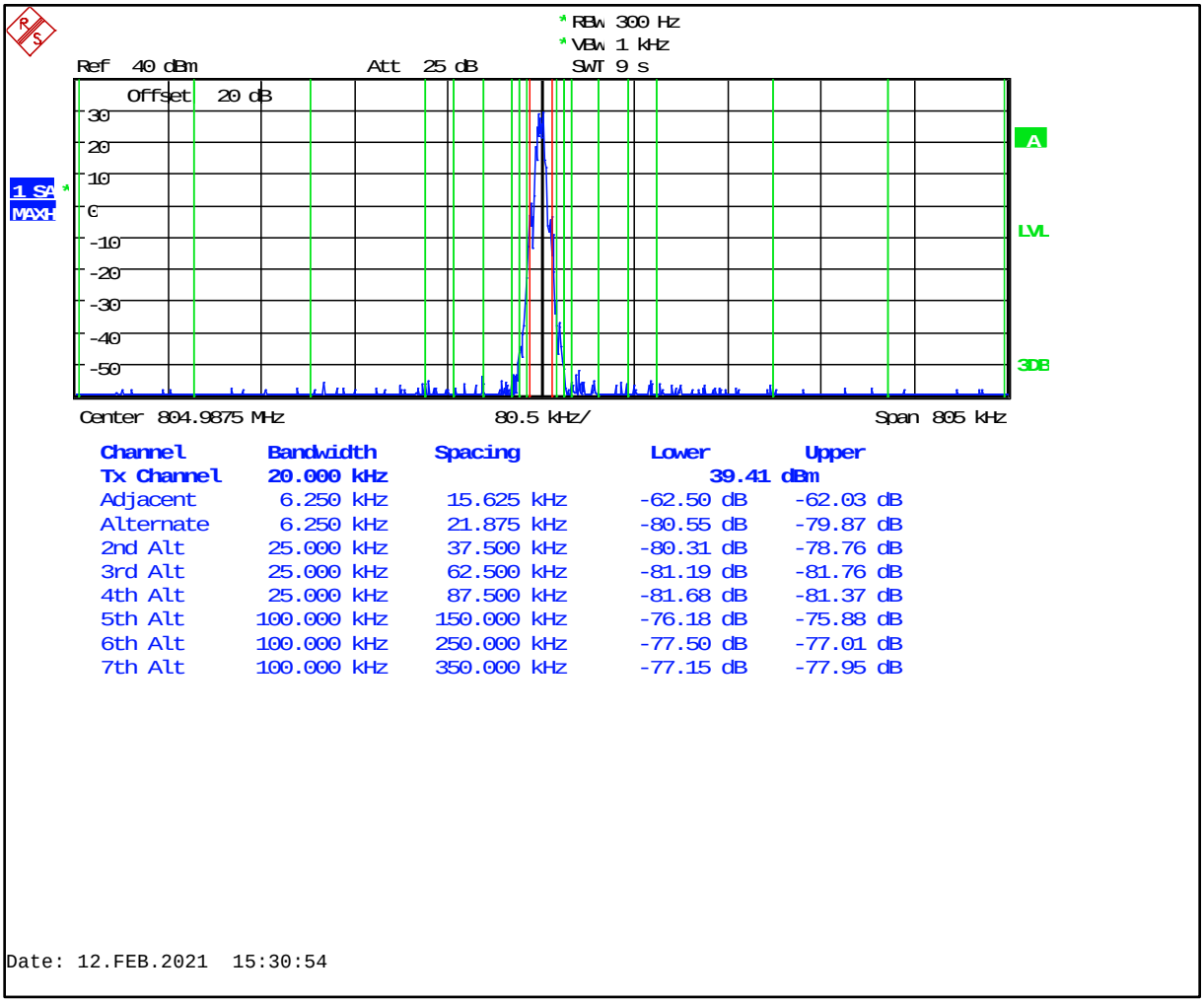


Table 6-49: Adjacent Channel Power – 804.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.2
12 MHz to receive band	30(s)	-75	-96.0
In receive band	30(s)	-100	-111.1

Plot 6-50: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

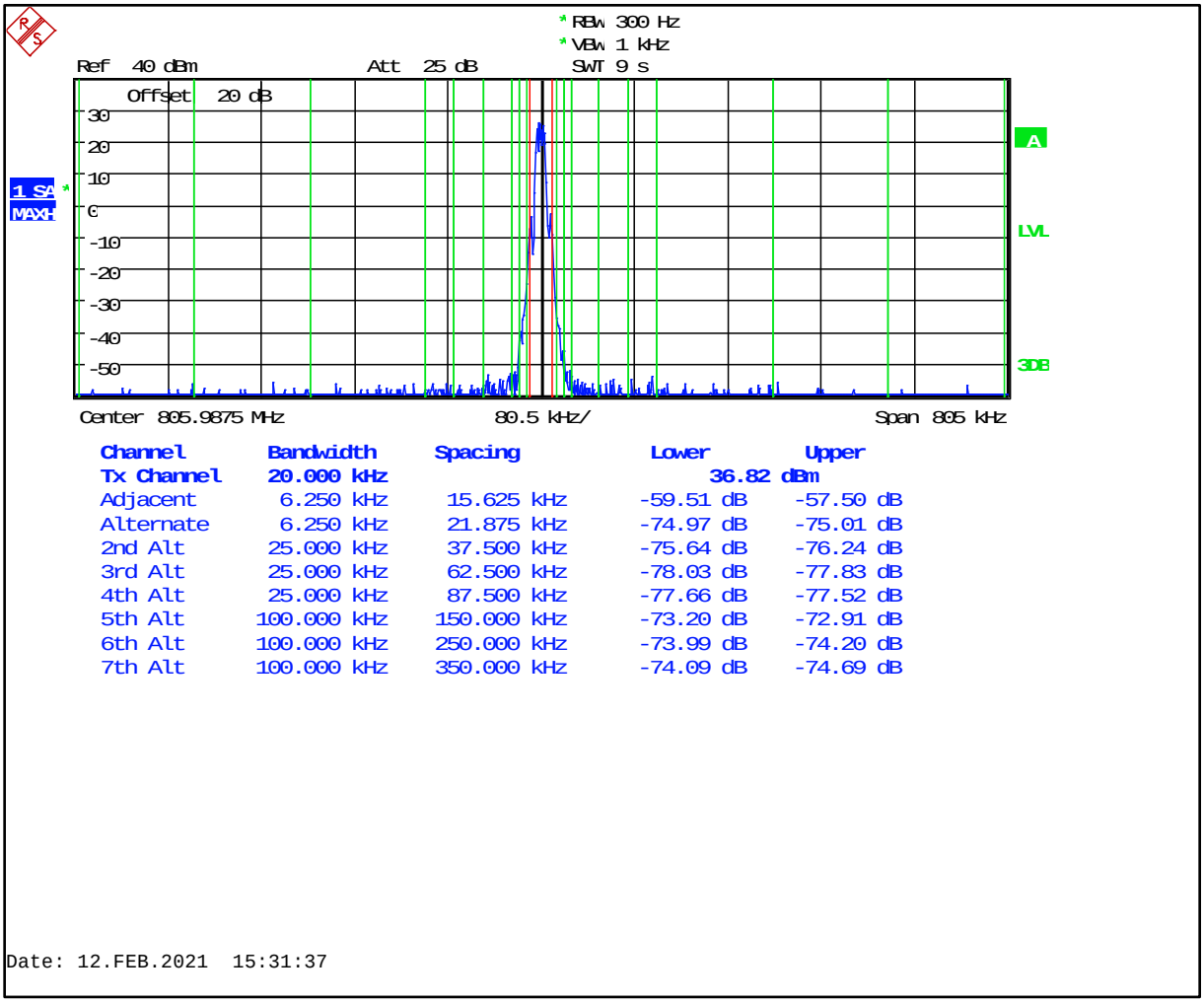


Table 6-50: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-level FSK 9600; 20.0 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.0
12 MHz to receive band	30(s)	-75	-96.9
In receive band	30(s)	-100	-114.2

Plot 6-51: Adjacent Channel Power - 768.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

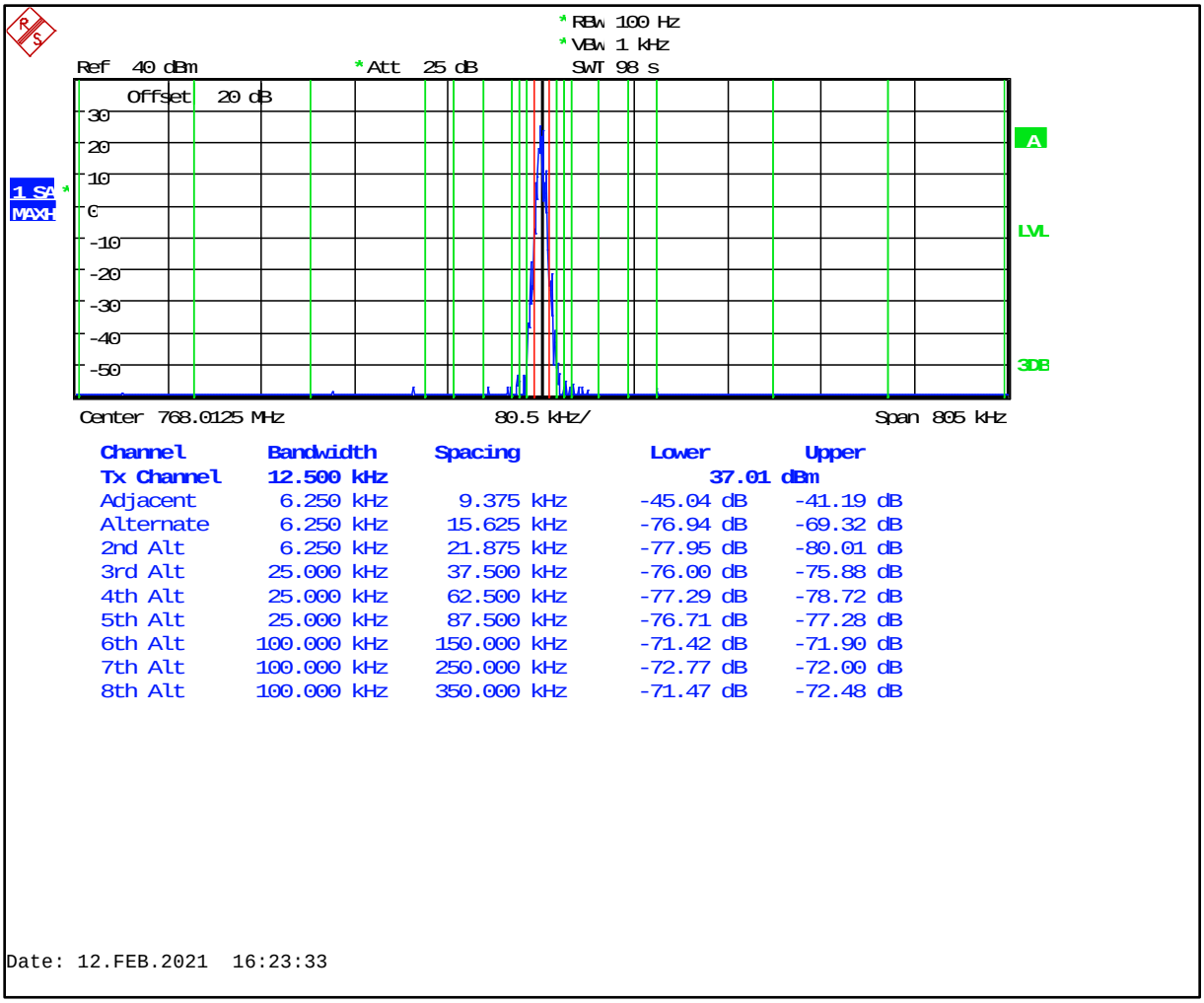


Table 6-51: Adjacent Channel Power - 768.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-79.4
12 MHz to receive band	30(s)	-75	-98.0
In receive band	30(s)	-100	-118.5

Plot 6-52: Adjacent Channel Power - 769.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

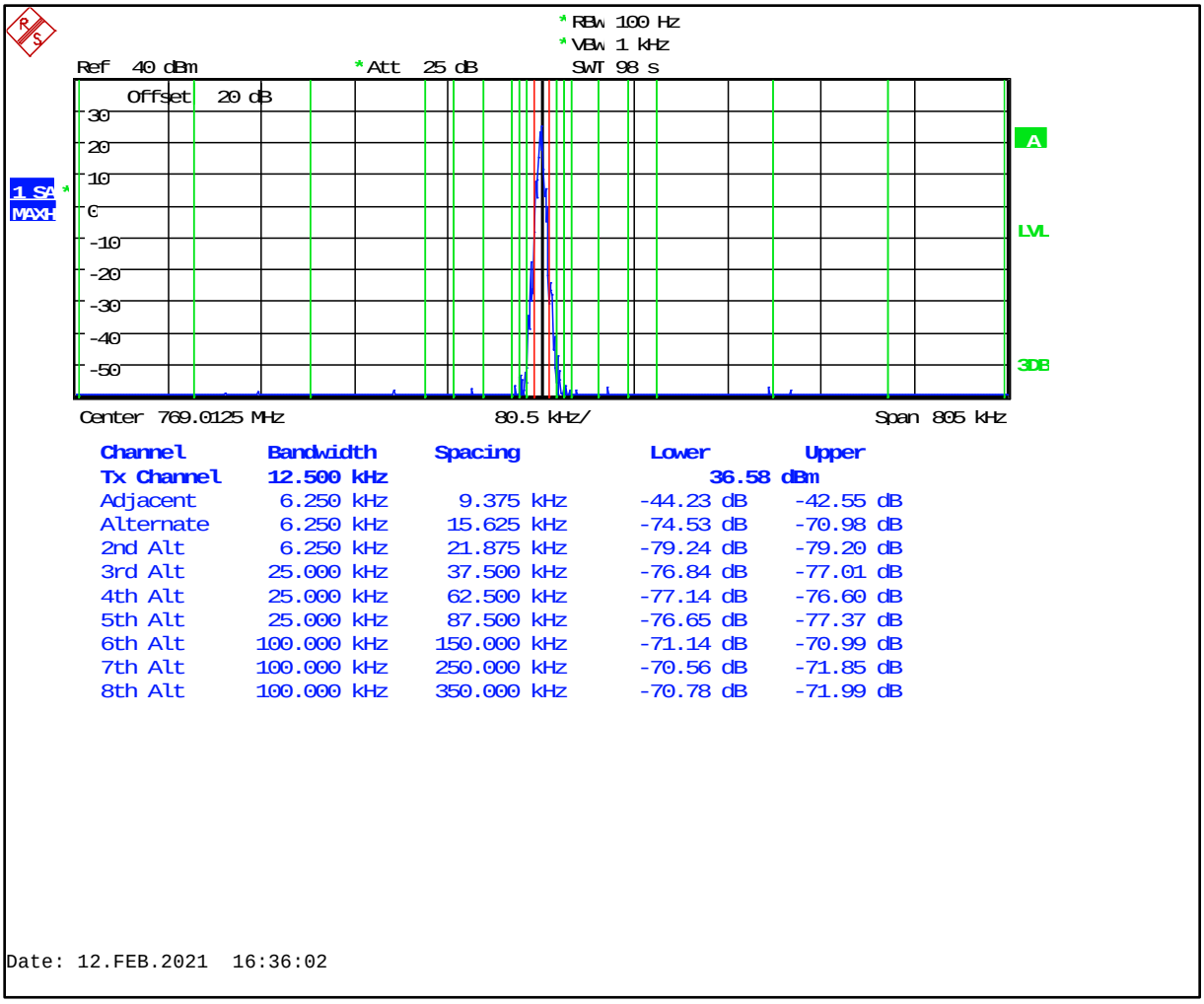
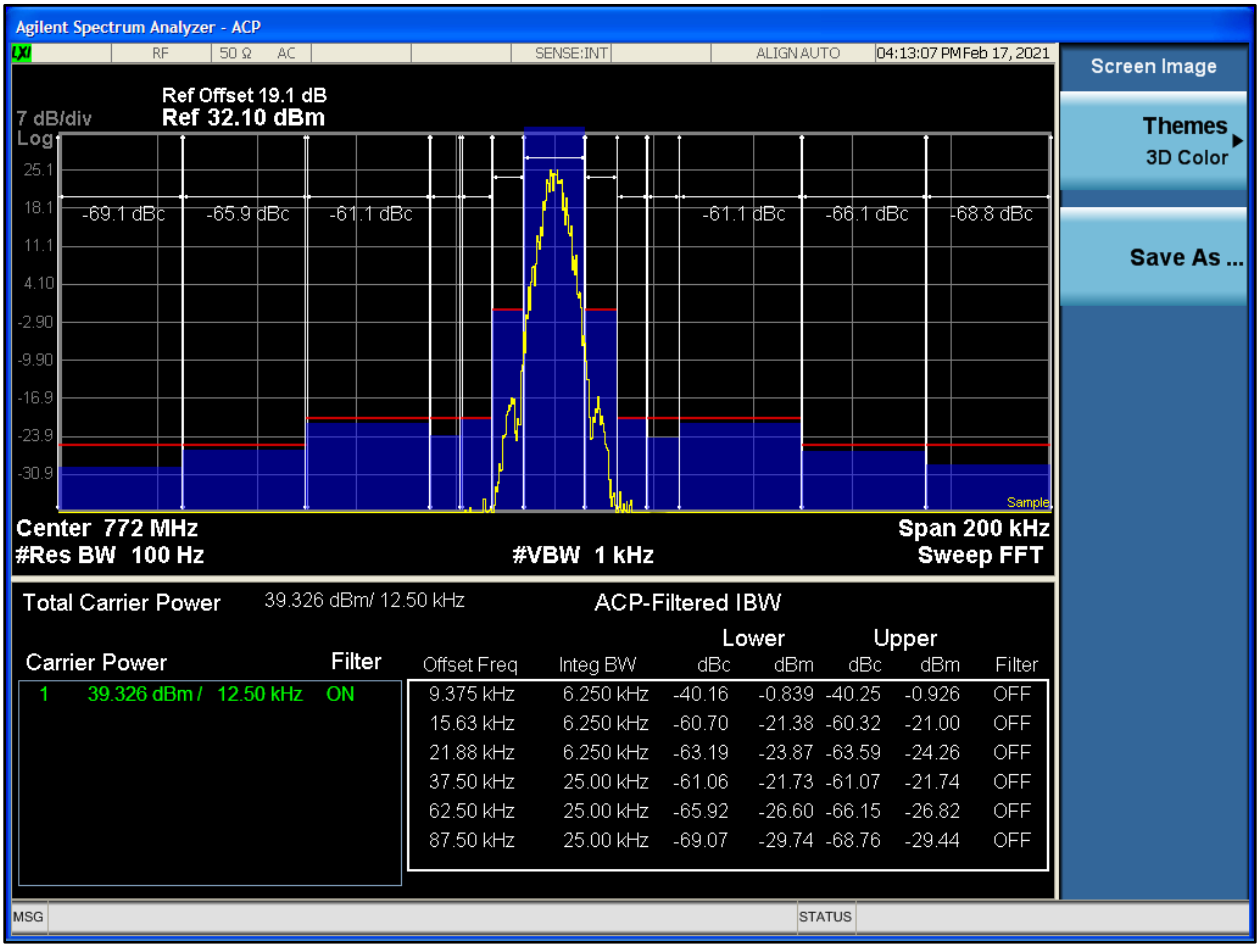


Table 6-52: Adjacent Channel Power - 769.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.2
12 MHz to receive band	30(s)	-75	-105.3
In receive band	30(s)	-100	-117.7

Plot 6-53: Adjacent Channel Power - 772.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-54: Adjacent Channel Power - 772.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

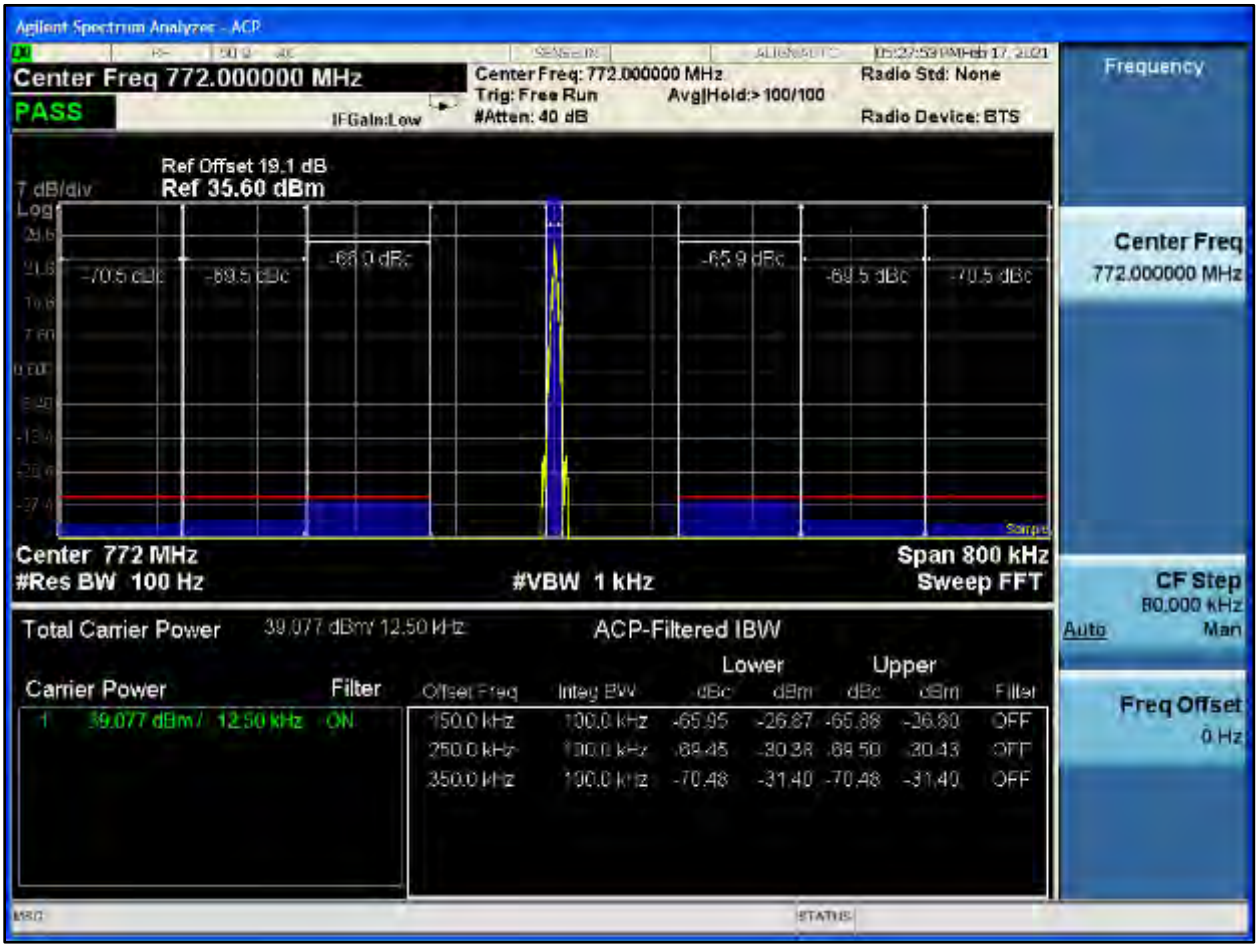
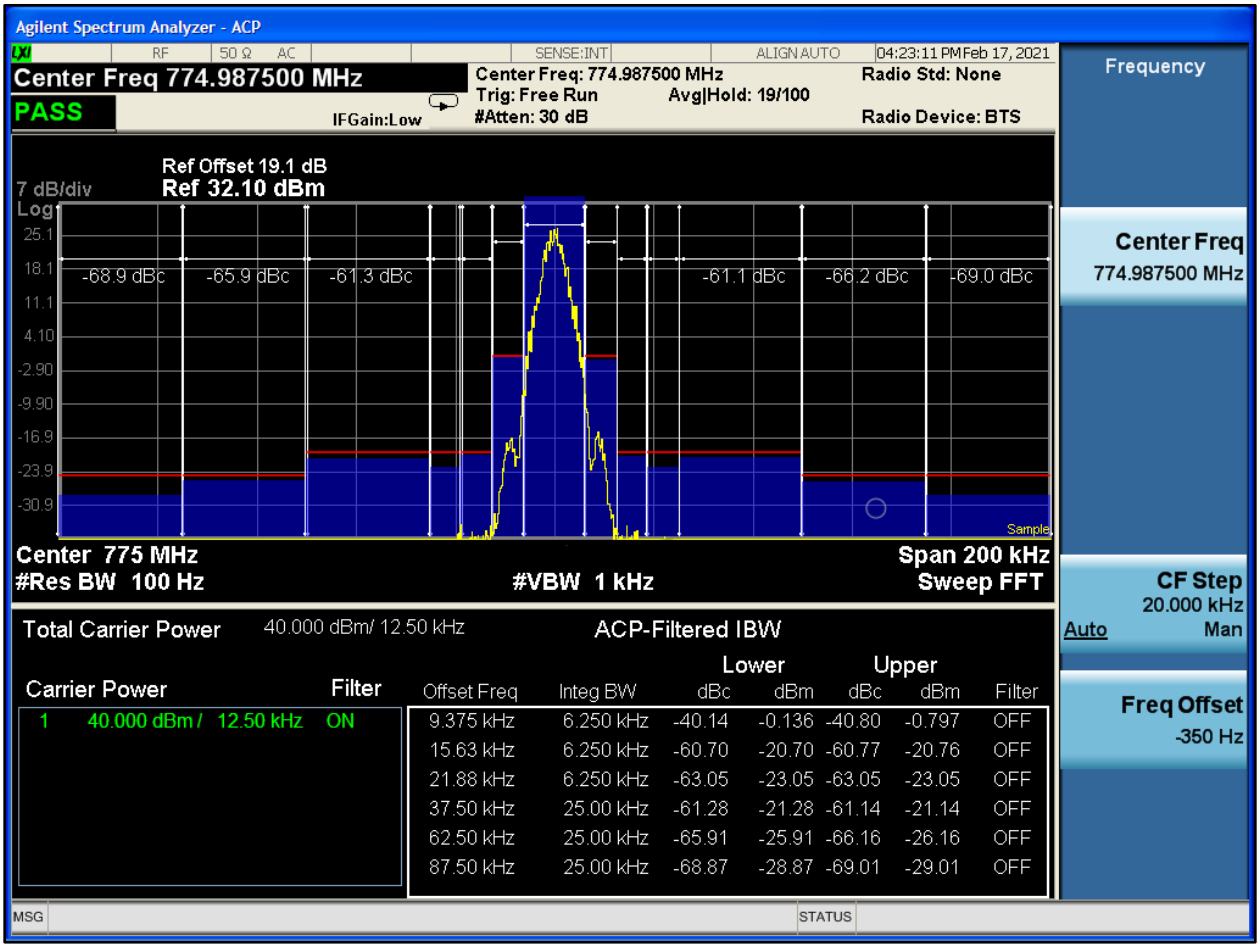


Table 6-53: Adjacent Channel Power - 772.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.5
12 MHz to receive band	30(s)	-75	-106.3
In receive band	30(s)	-100	-117.4

Plot 6-55: Adjacent Channel Power - 774.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-56: Adjacent Channel Power - 774.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

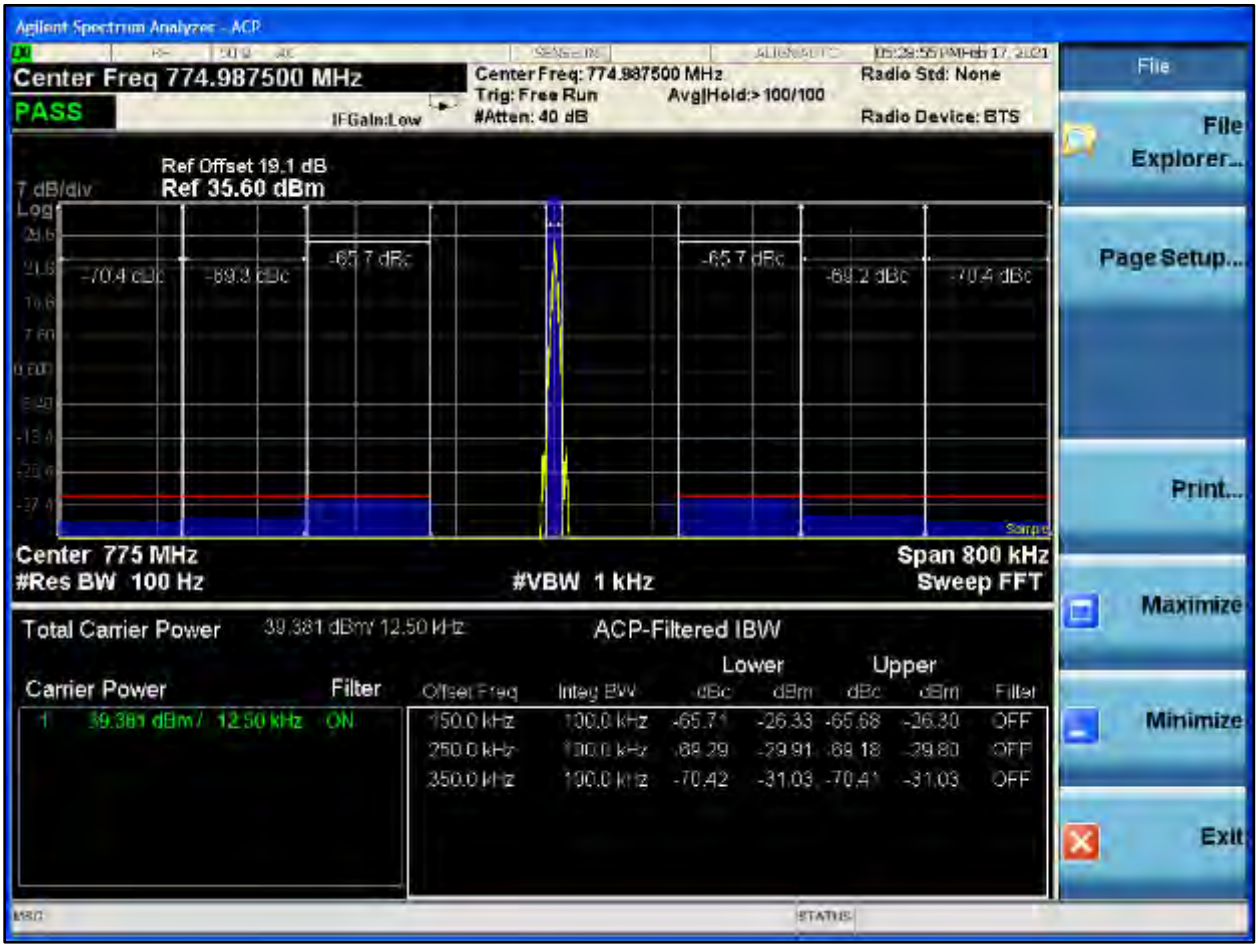
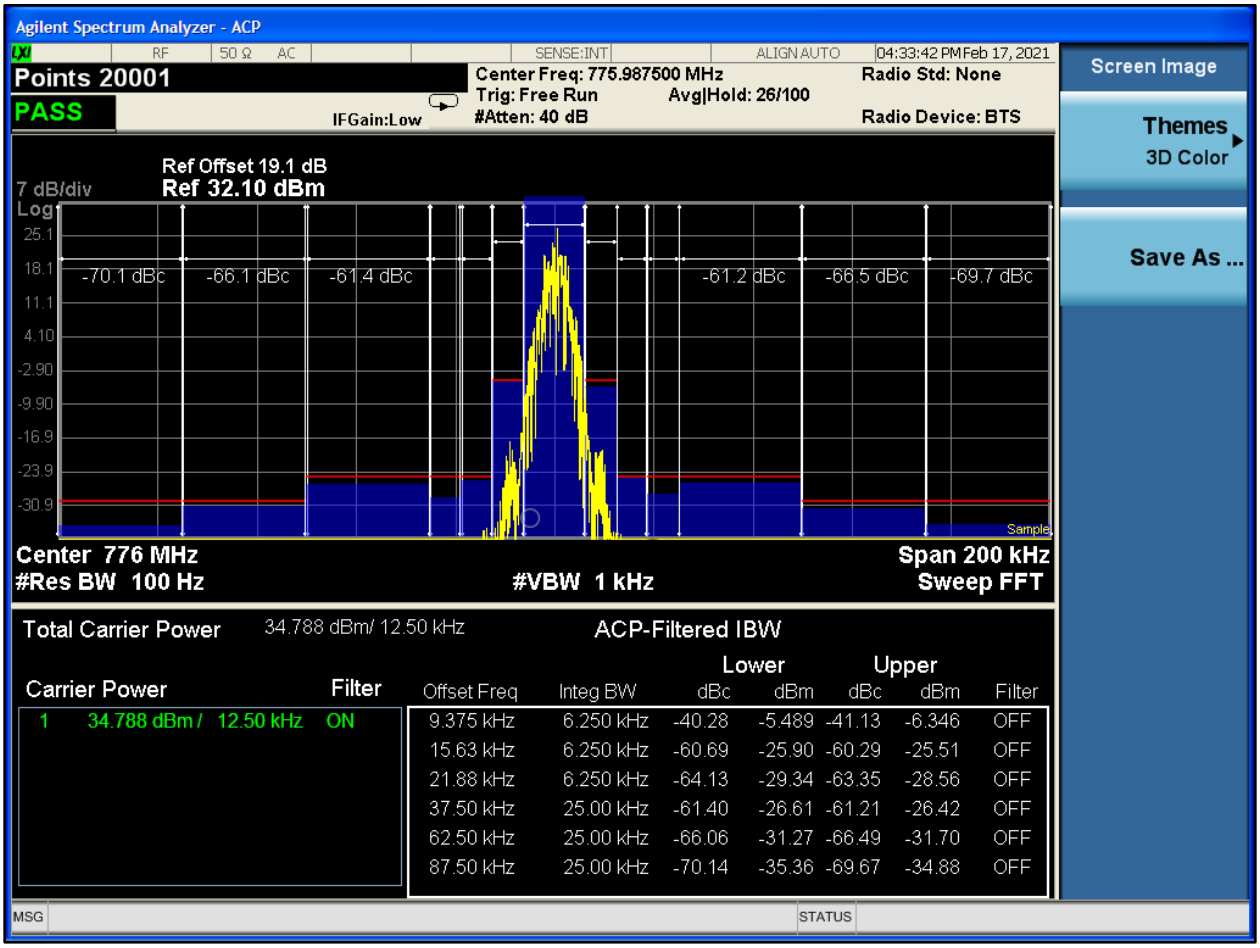


Table 6-54: Adjacent Channel Power - 774.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.9
12 MHz to receive band	30(s)	-75	-106.4
In receive band	30(s)	-100	-117.2

Plot 6-57: Adjacent Channel Power - 775.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-58: Adjacent Channel Power - 775.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

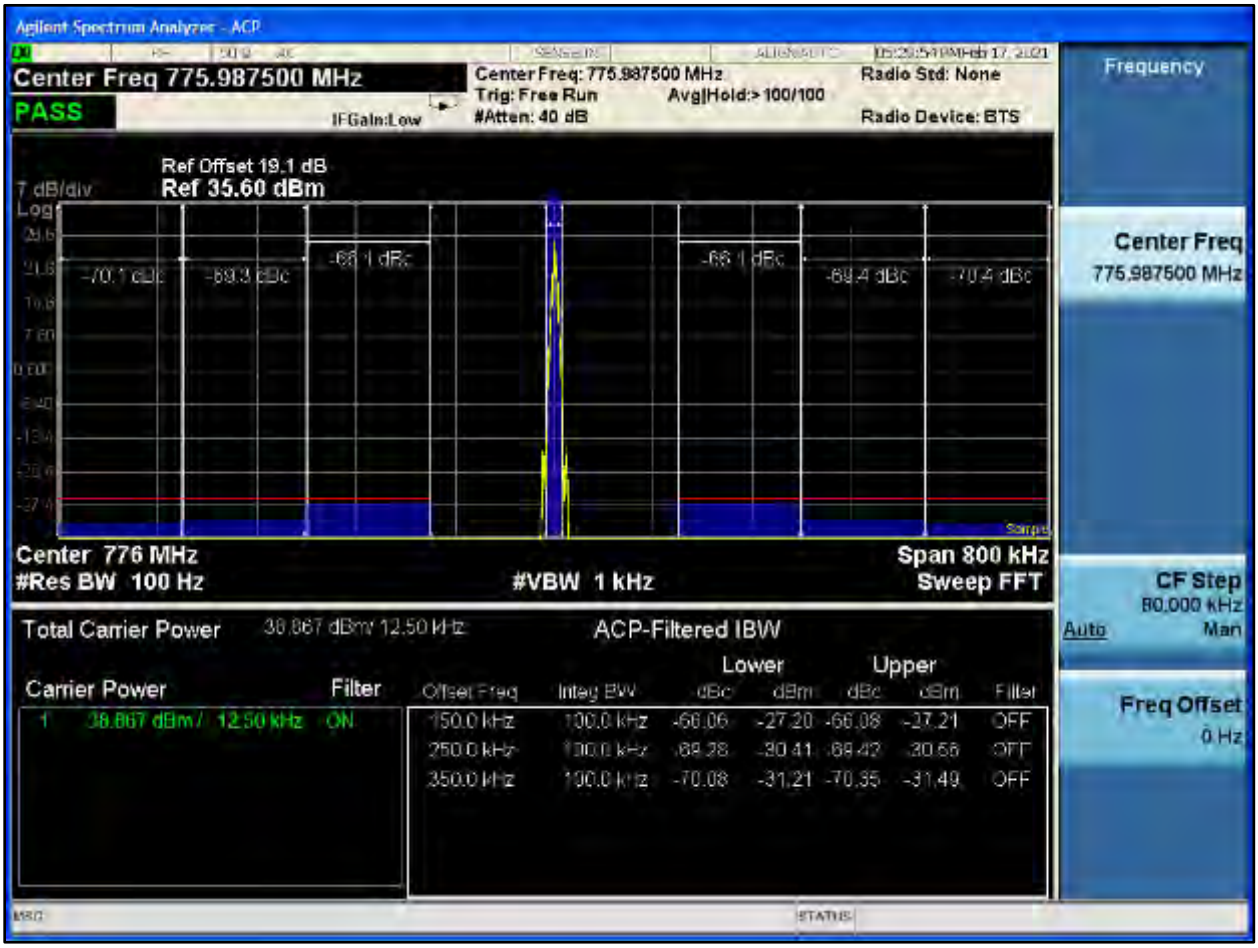
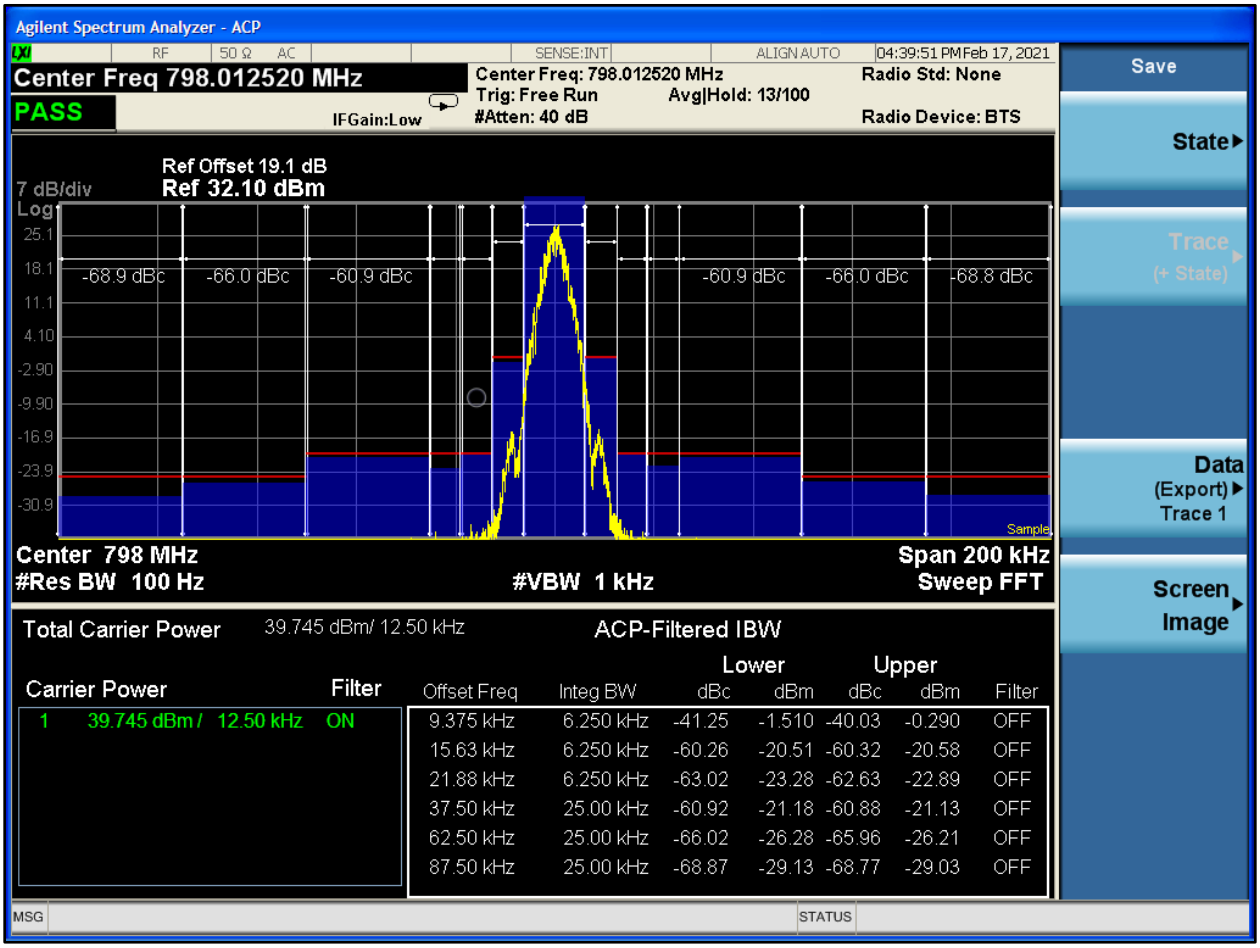


Table 6-55: Adjacent Channel Power - 775.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.2
12 MHz to receive band	30(s)	-75	-106.1
In receive band	30(s)	-100	-117.0

Plot 6-59: Adjacent Channel Power - 798.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-60: Adjacent Channel Power - 798.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

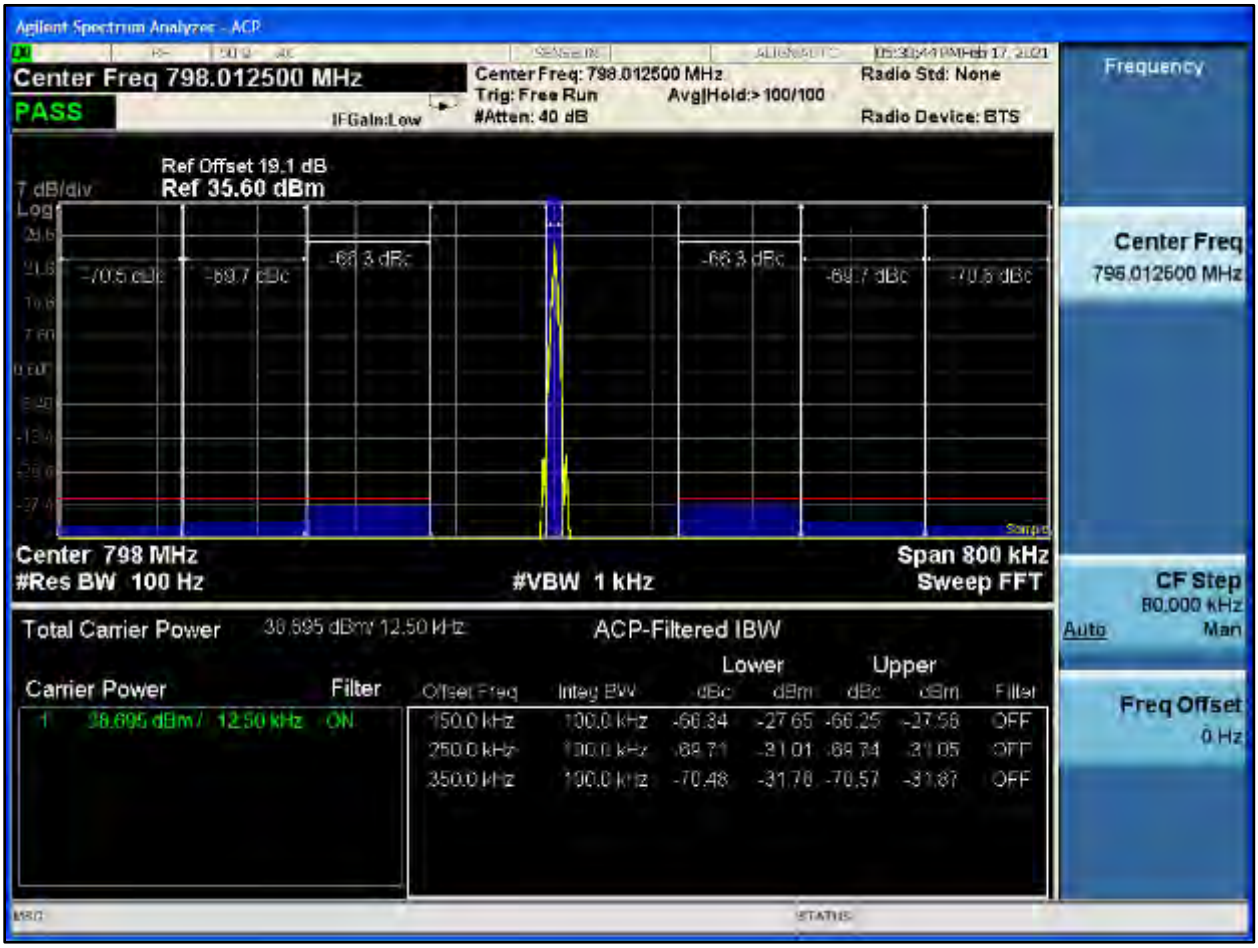
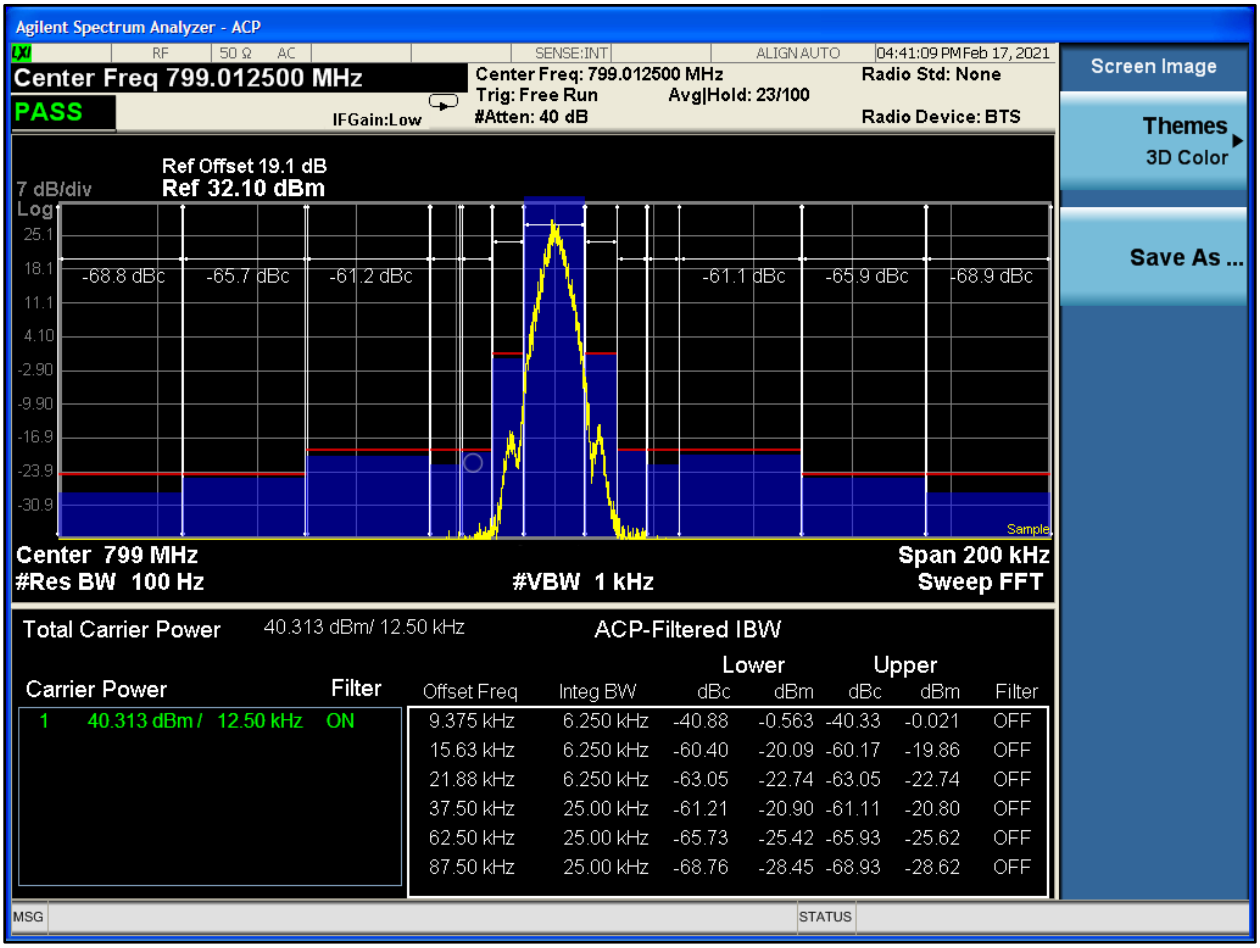


Table 6-56: Adjacent Channel Power - 798.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.7
12 MHz to receive band	30(s)	-75	-101.8
In receive band	30(s)	-100	-103.8

Plot 6-61: Adjacent Channel Power - 799.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-62: Adjacent Channel Power - 799.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

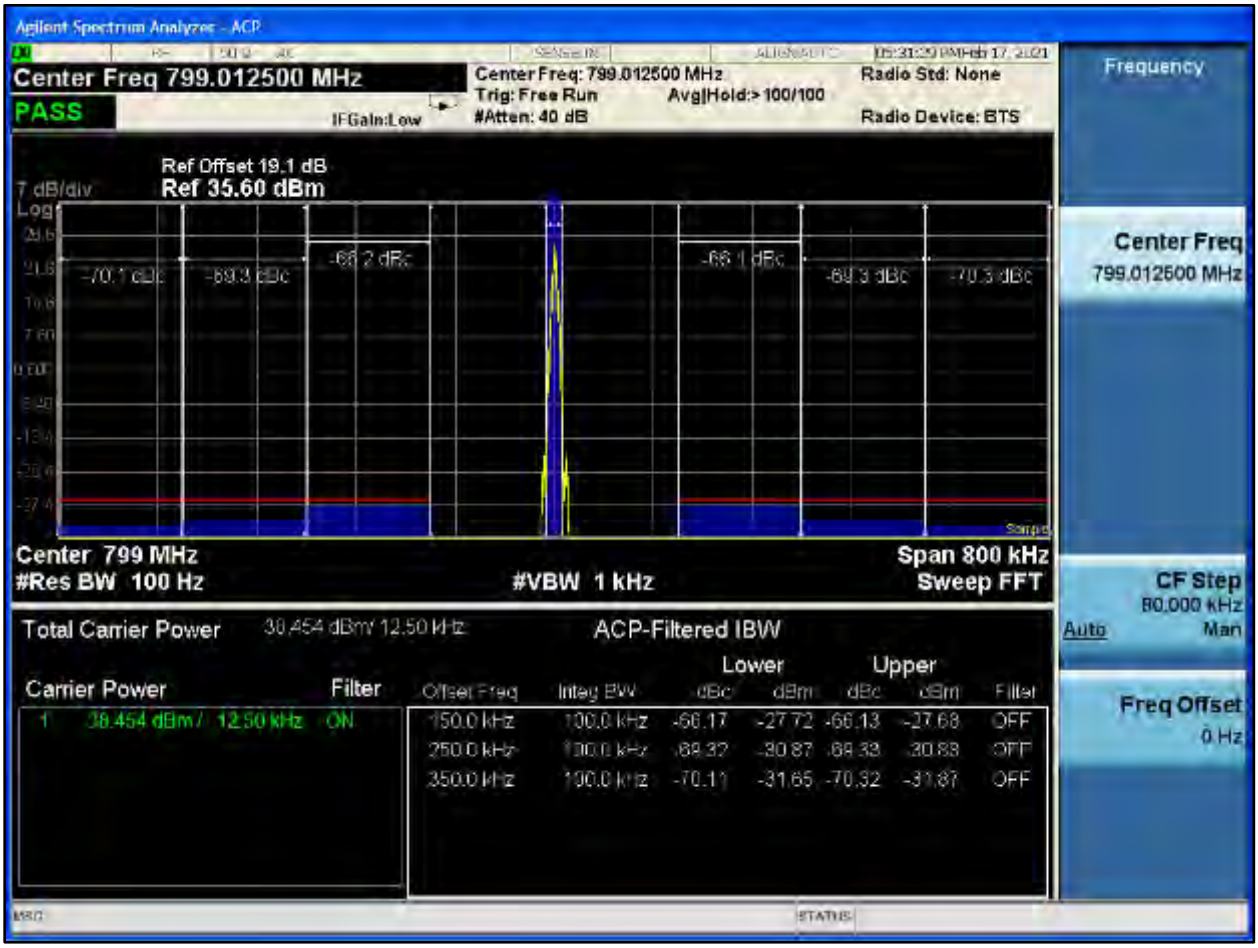
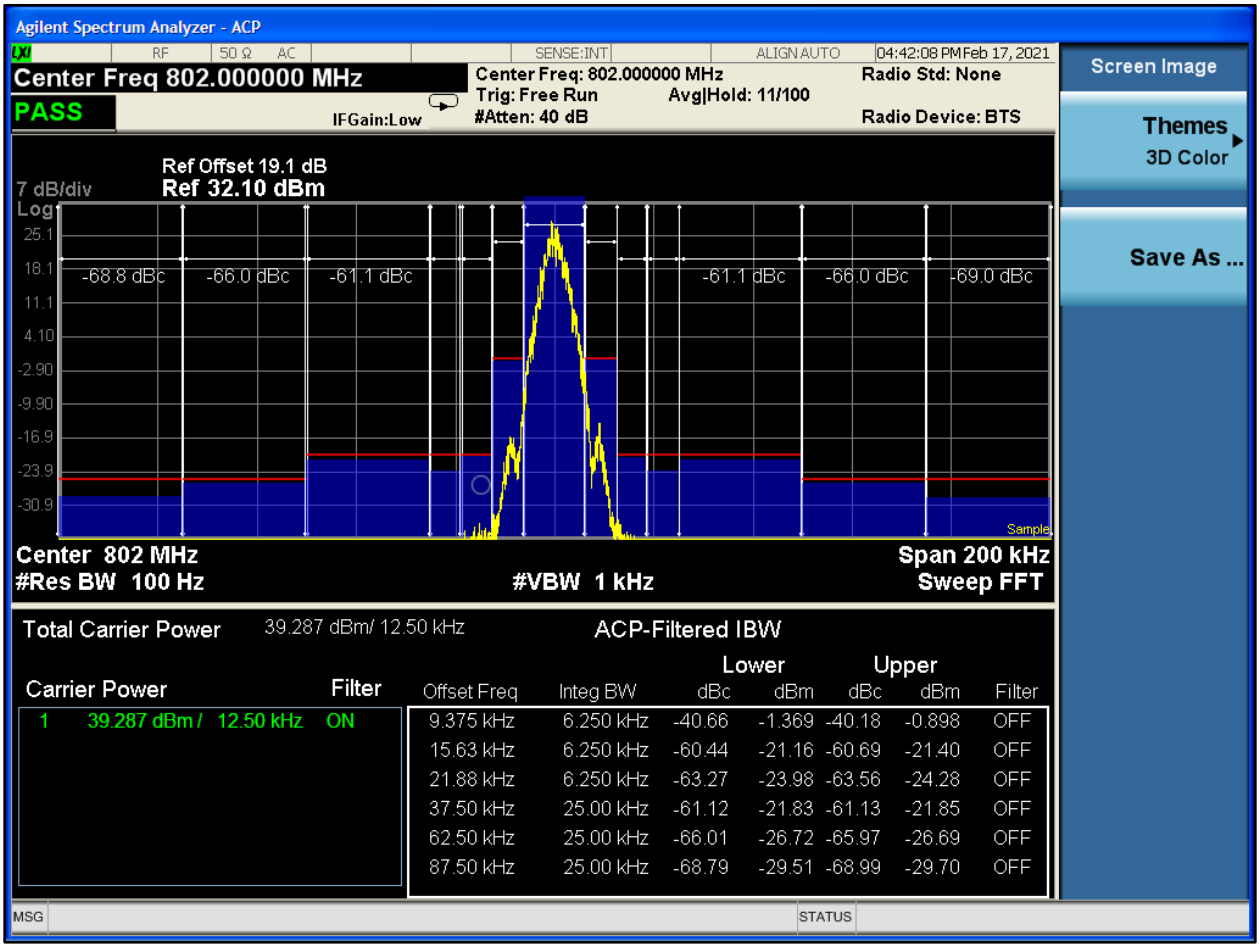


Table 6-57: Adjacent Channel Power - 799.0125 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-88.1
12 MHz to receive band	30(s)	-75	-99.5
In receive band	30(s)	-100	-106.5

Plot 6-63: Adjacent Channel Power - 802.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-64: Adjacent Channel Power - 802.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

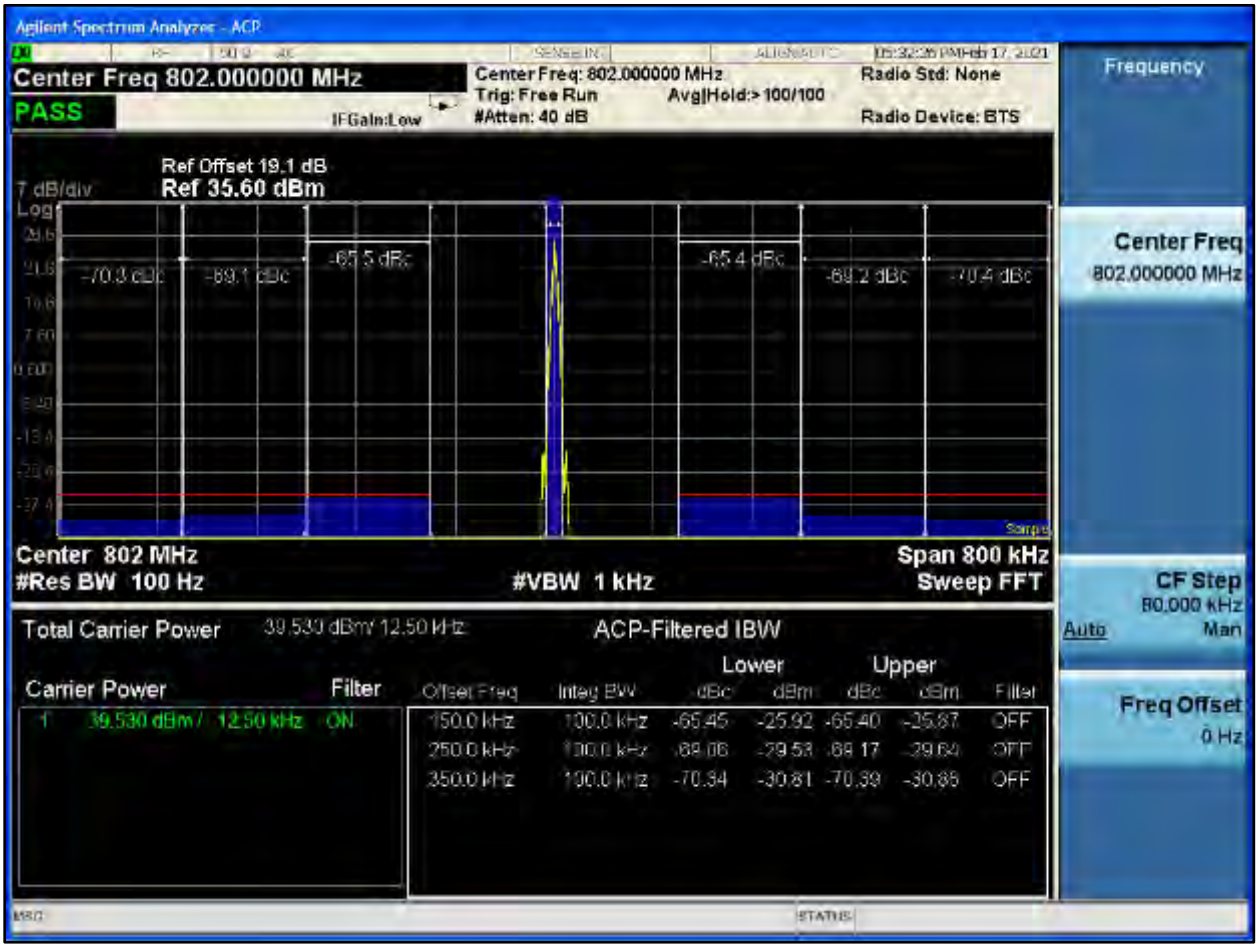
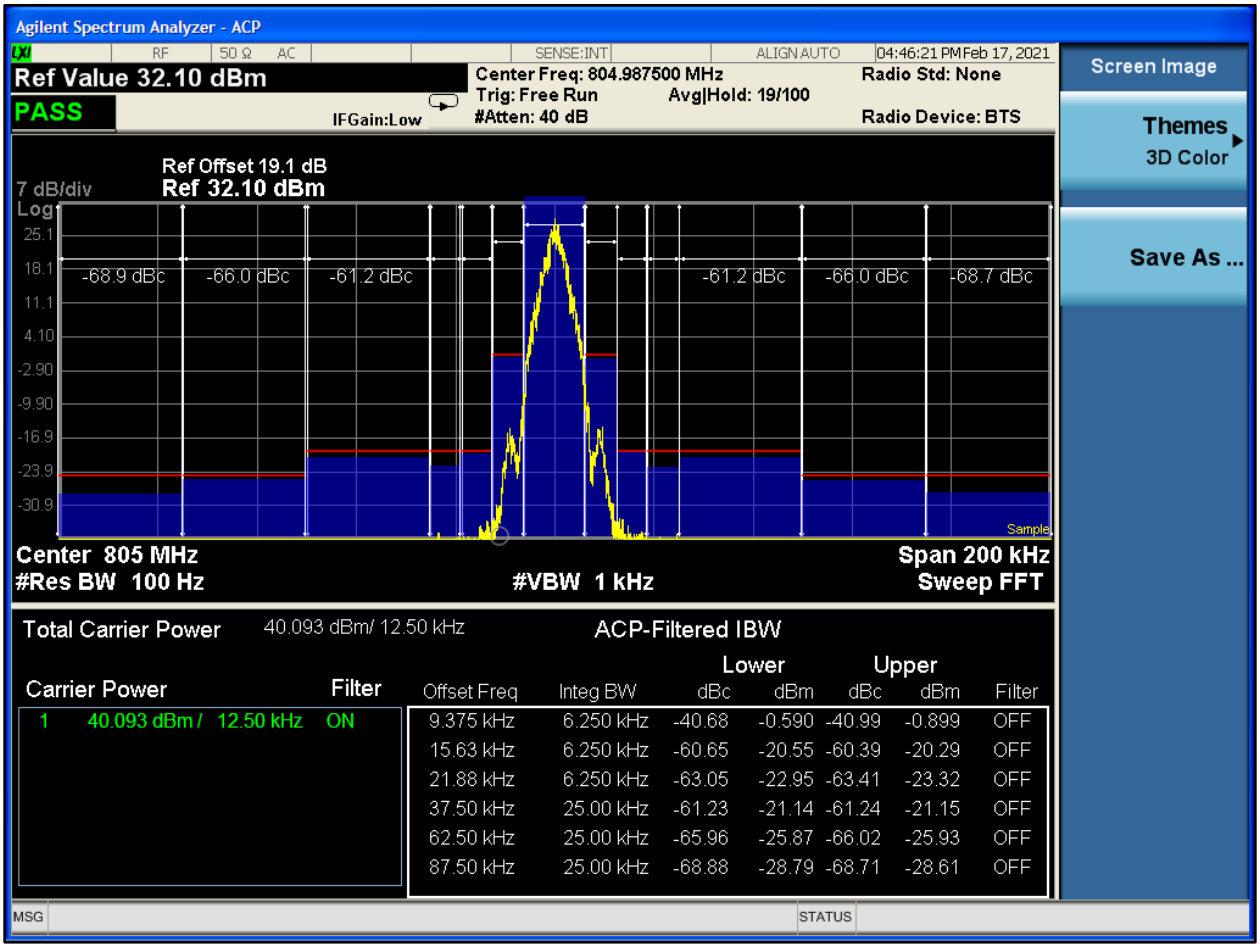


Table 6-58: Adjacent Channel Power - 802.0000 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.0
12 MHz to receive band	30(s)	-75	-98.1
In receive band	30(s)	-100	-109.7

Plot 6-65: Adjacent Channel Power – 804.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-66: Adjacent Channel Power – 804.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

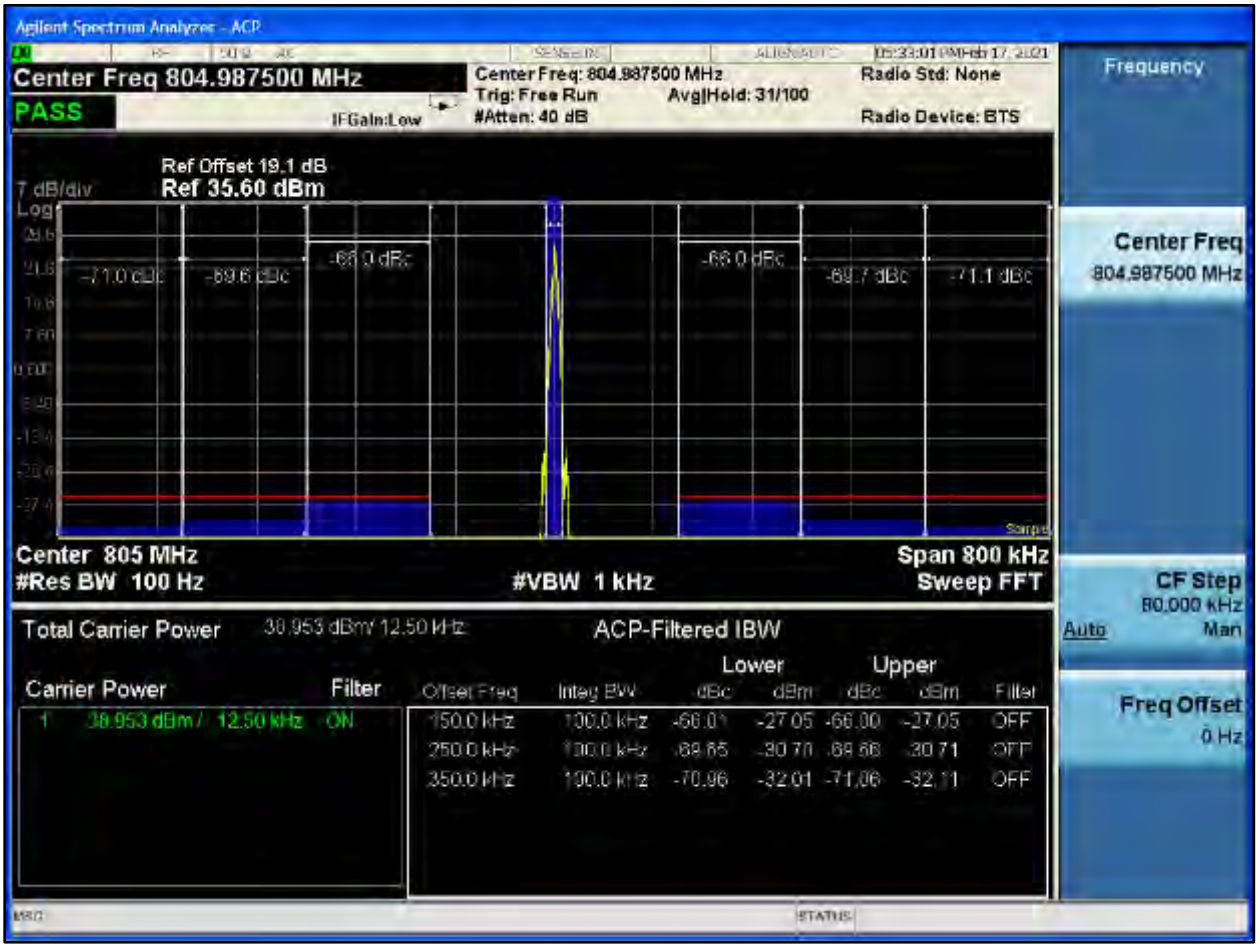
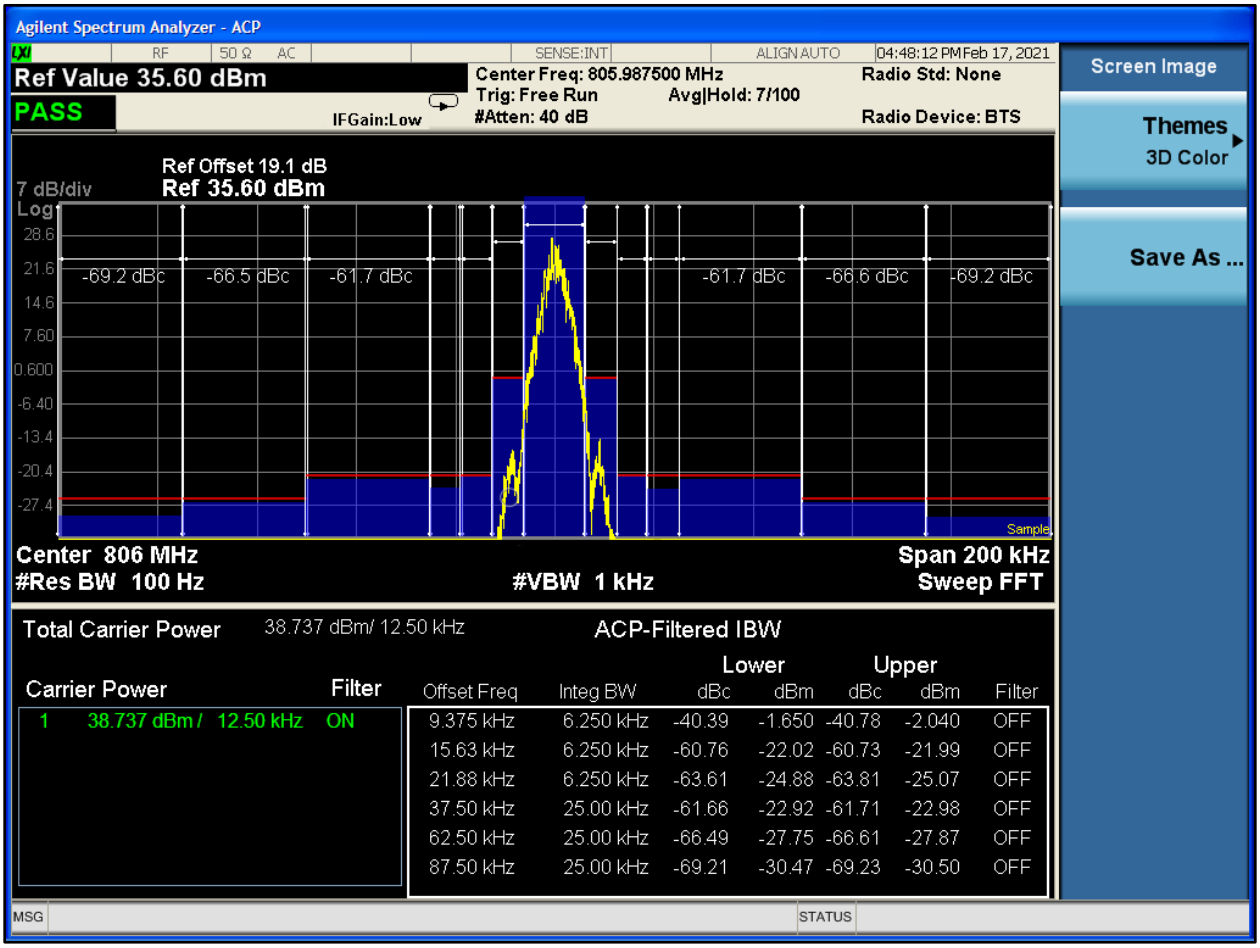


Table 6-59: Adjacent Channel Power – 804.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.3
12 MHz to receive band	30(s)	-75	-97.1
In receive band	30(s)	-100	-110.8

Plot 6-67: Adjacent Channel Power – 805.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (9.375 kHz – 87.5 kHz)



Plot 6-68: Adjacent Channel Power – 805.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing (150 kHz – 350 kHz)

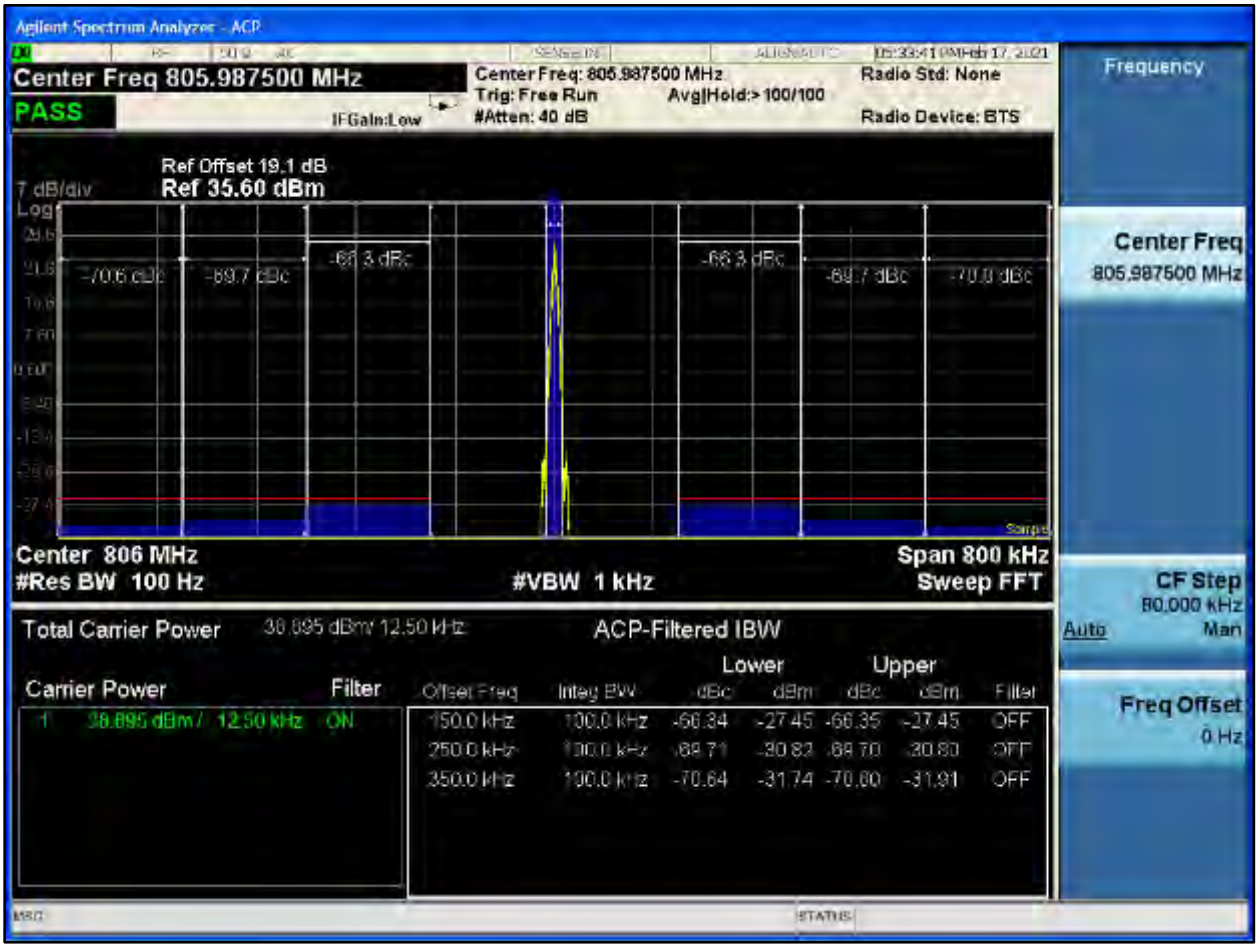


Table 6-60: Adjacent Channel Power – 805.9875 MHz; 2-level FSK 9600; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.1
12 MHz to receive band	30(s)	-75	-96.6
In receive band	30(s)	-100	-113.4

Plot 6-69: Adjacent Channel Power - 768.0125 MHz; C4FM; 12.5 kHz Channel Spacing

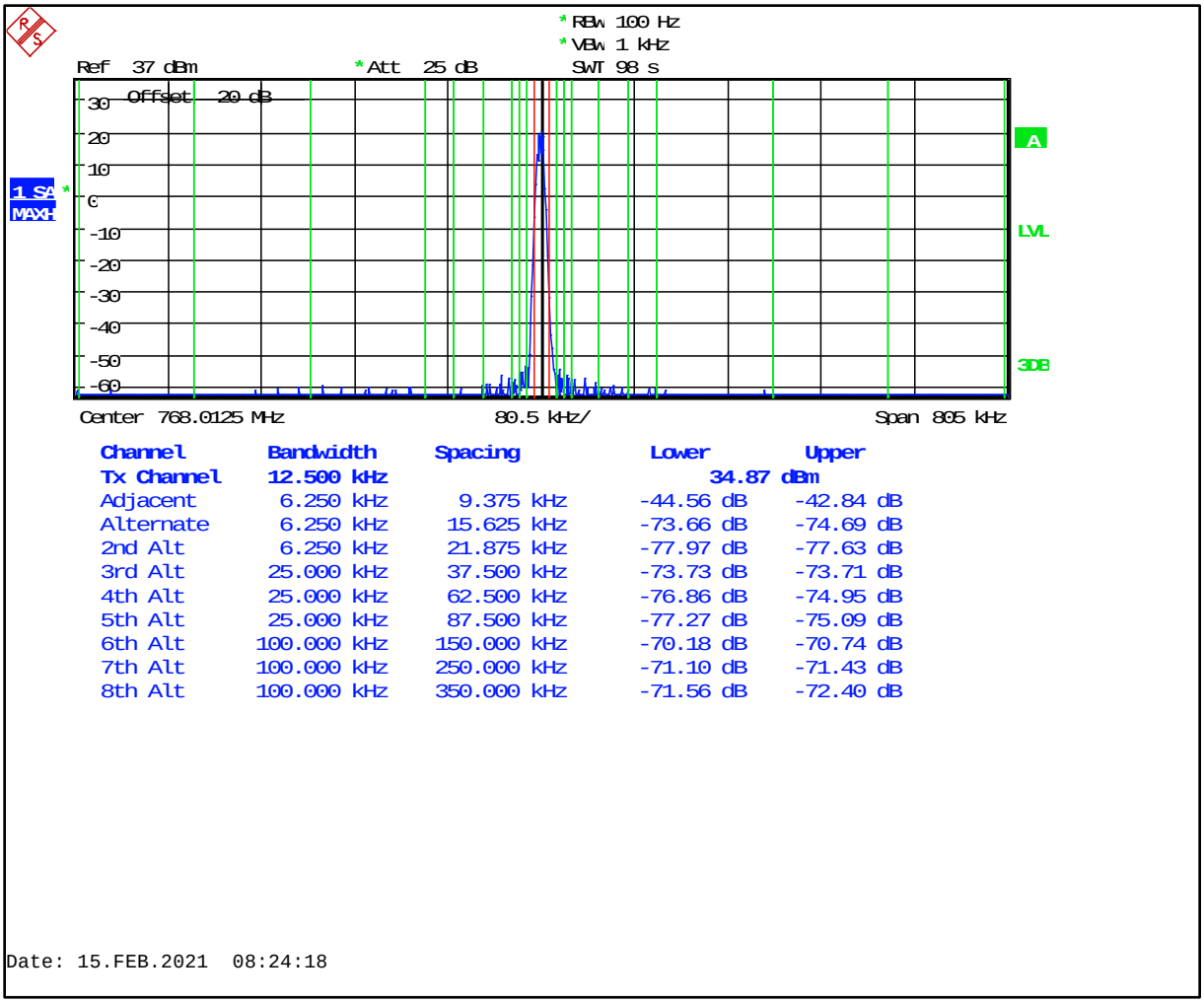


Table 6-61: Adjacent Channel Power - 768.0125 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-75.6
12 MHz to receive band	30(s)	-75	-98.8
In receive band	30(s)	-100	-118.3

Plot 6-70: Adjacent Channel Power - 769.0125 MHz; C4FM; 12.5 kHz Channel Spacing

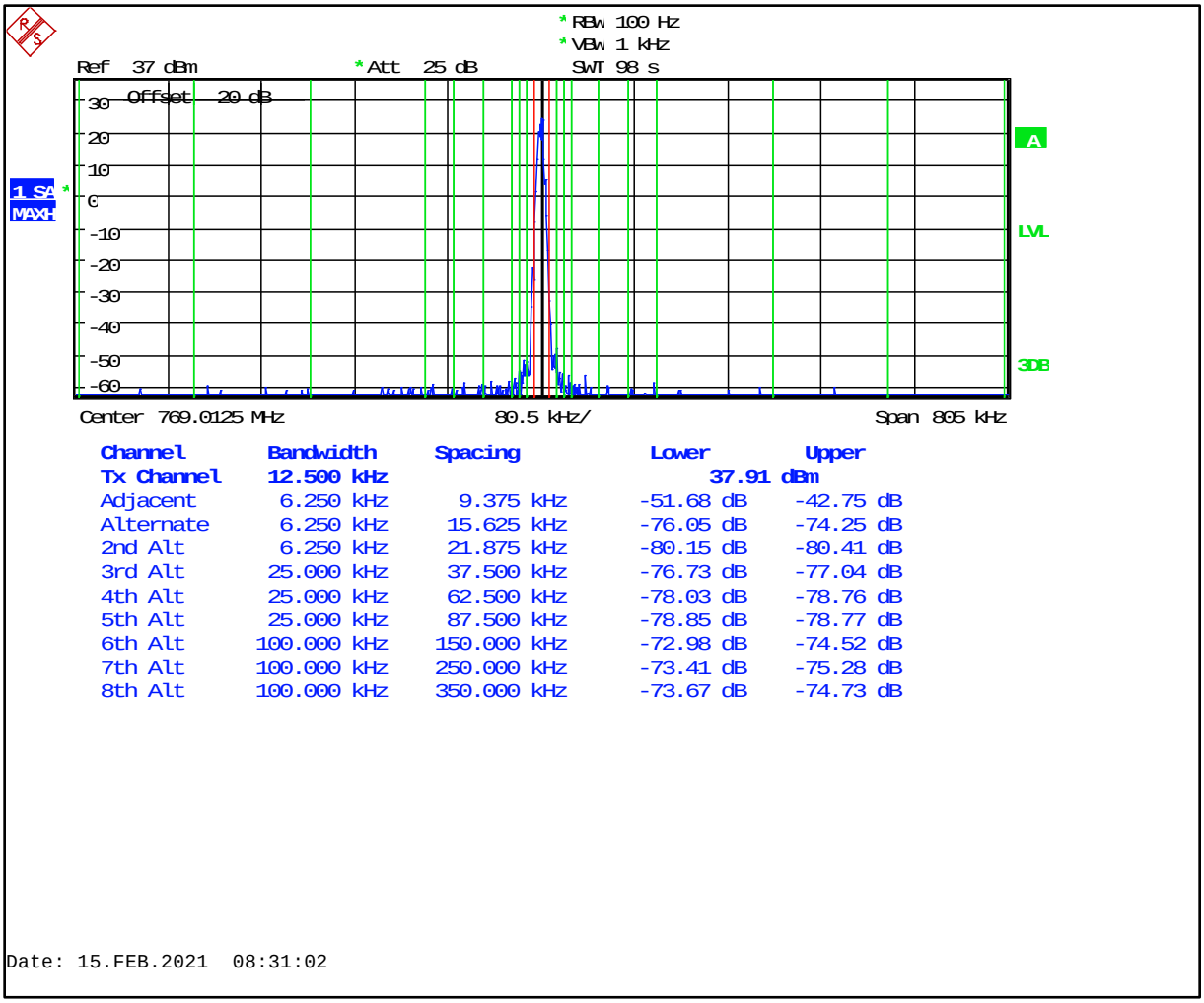


Table 6-62: Adjacent Channel Power - 769.0125 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.6
12 MHz to receive band	30(s)	-75	-103.9
In receive band	30(s)	-100	-118.3

Plot 6-71: Adjacent Channel Power - 772.0000 MHz; C4FM; 12.5 kHz Channel Spacing

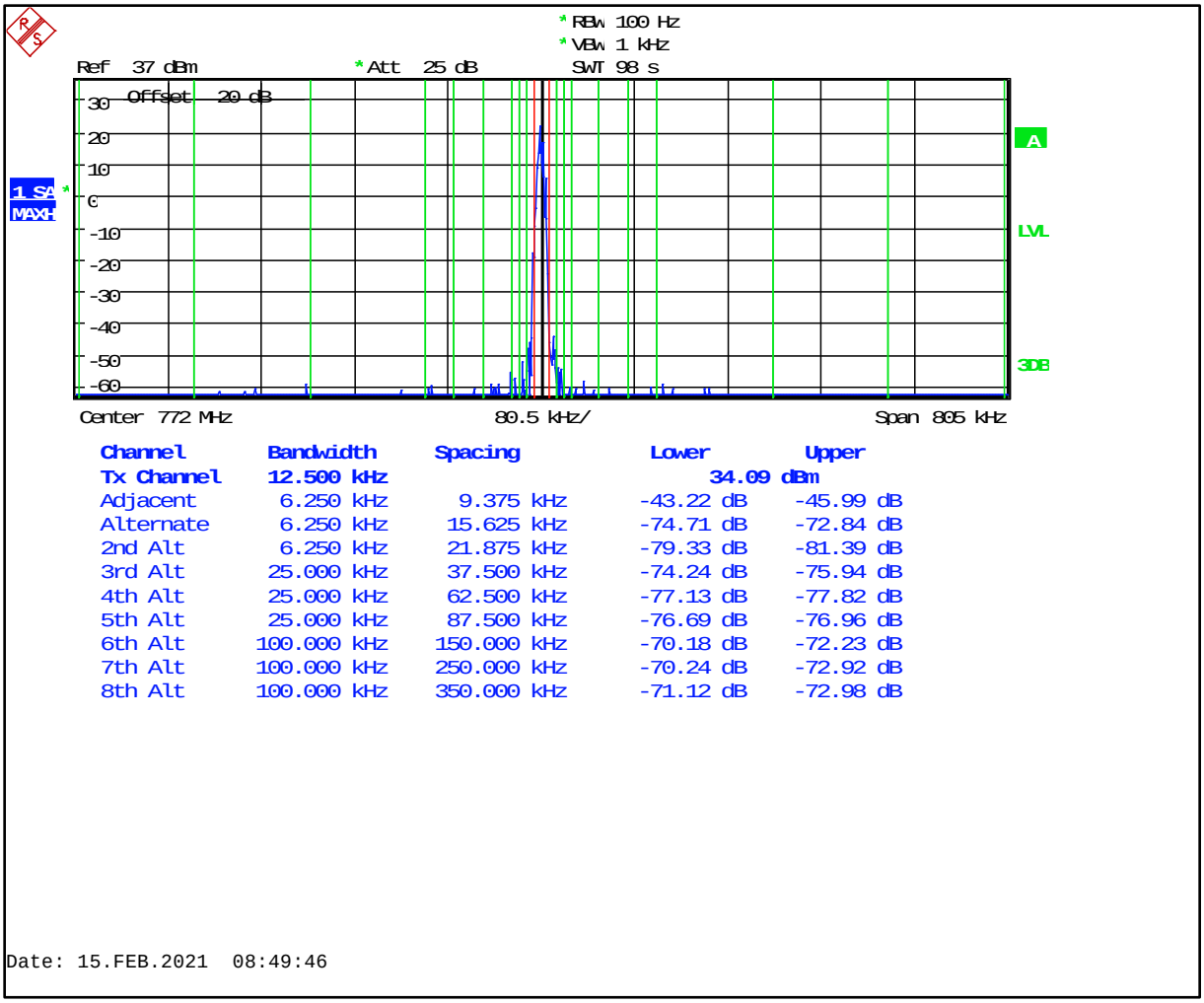


Table 6-63: Adjacent Channel Power - 772.0000 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.6
12 MHz to receive band	30(s)	-75	-106.9
In receive band	30(s)	-100	-117.4

Plot 6-72: Adjacent Channel Power - 774.9875 MHz; C4FM; 12.5 kHz Channel Spacing

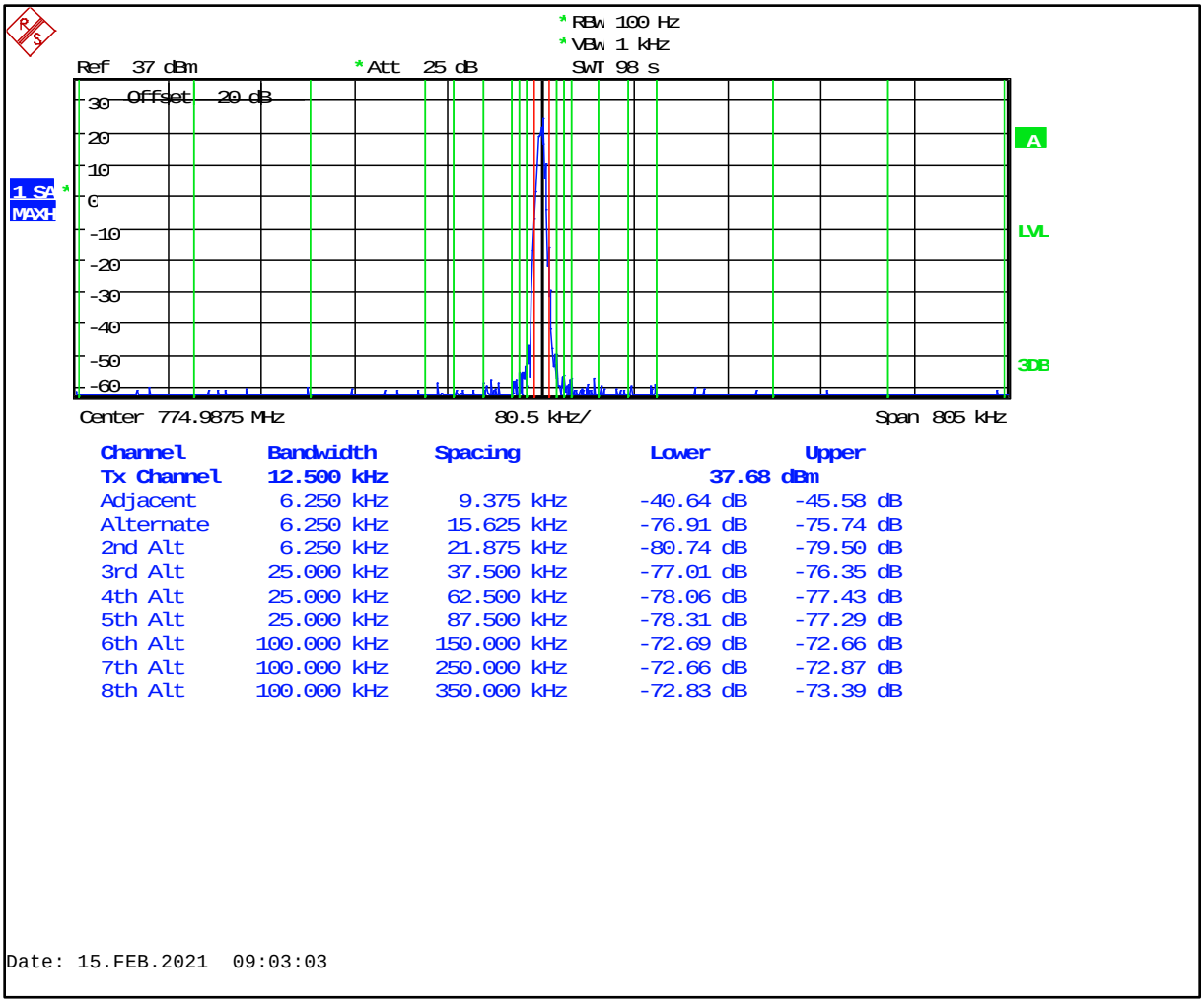


Table 6-64: Adjacent Channel Power - 774.9875 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.7
12 MHz to receive band	30(s)	-75	-106.8
In receive band	30(s)	-100	-116.4

Plot 6-73: Adjacent Channel Power - 775.9875 MHz; C4FM; 12.5 kHz Channel Spacing

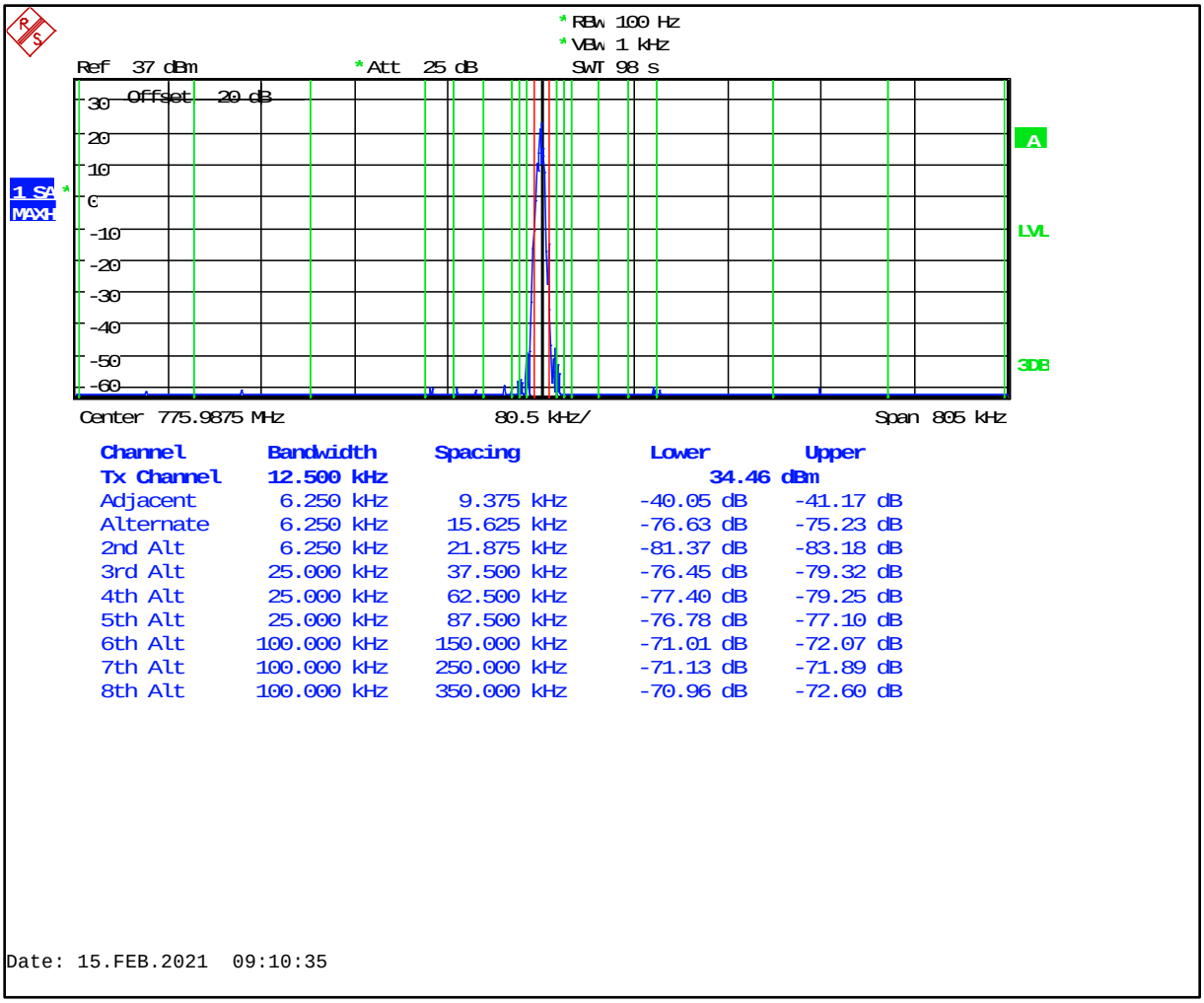


Table 6-65: Adjacent Channel Power - 775.9875 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.7
12 MHz to receive band	30(s)	-75	-106.1
In receive band	30(s)	-100	-116.9

Plot 6-74: Adjacent Channel Power - 798.0125 MHz; C4FM; 12.5 kHz Channel Spacing

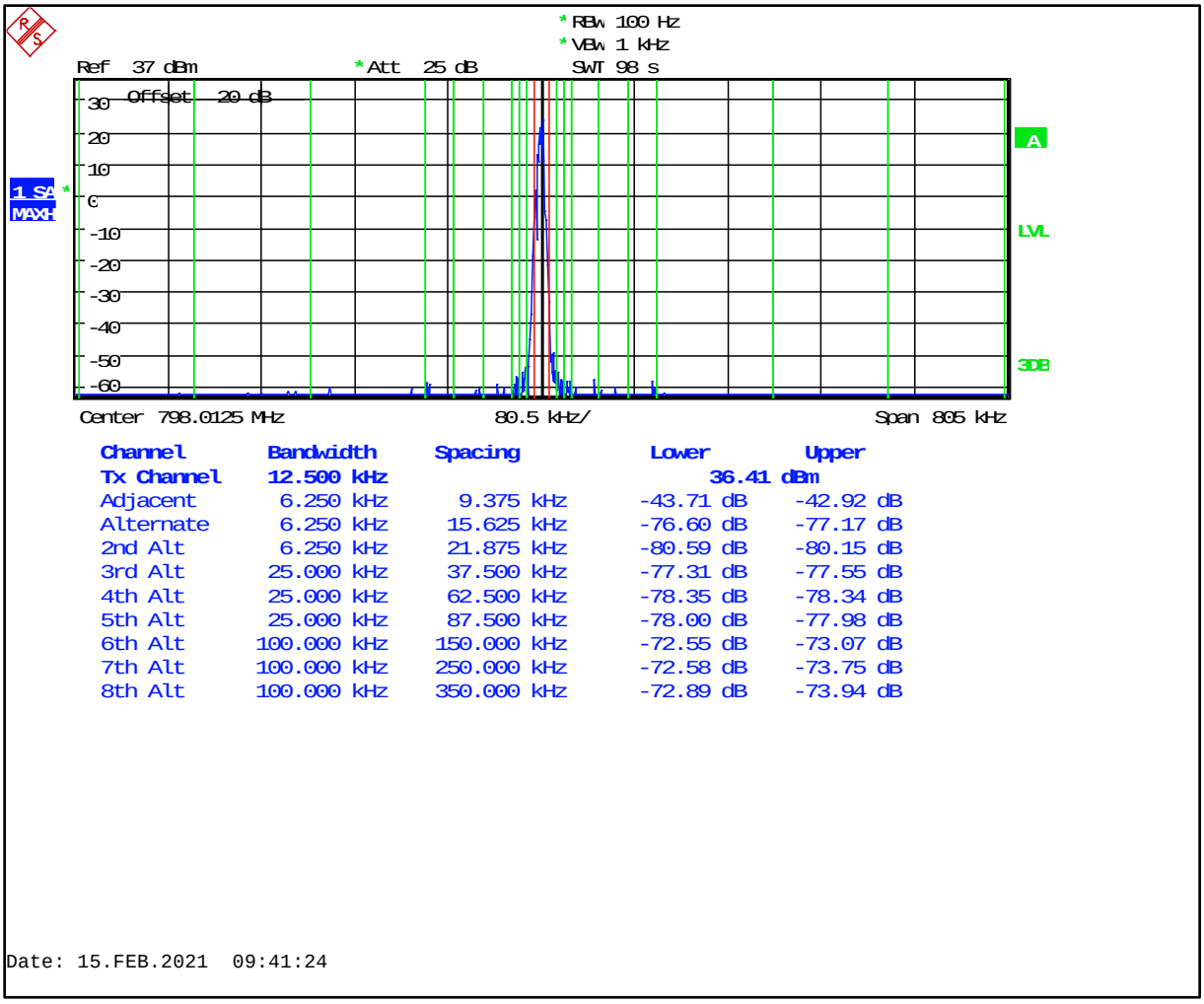


Table 6-66: Adjacent Channel Power - 798.0125 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.0
12 MHz to receive band	30(s)	-75	-75.4
In receive band	30(s)	-100	-103.6

Plot 6-75: Adjacent Channel Power - 799.0125 MHz; C4FM; 12.5 kHz Channel Spacing

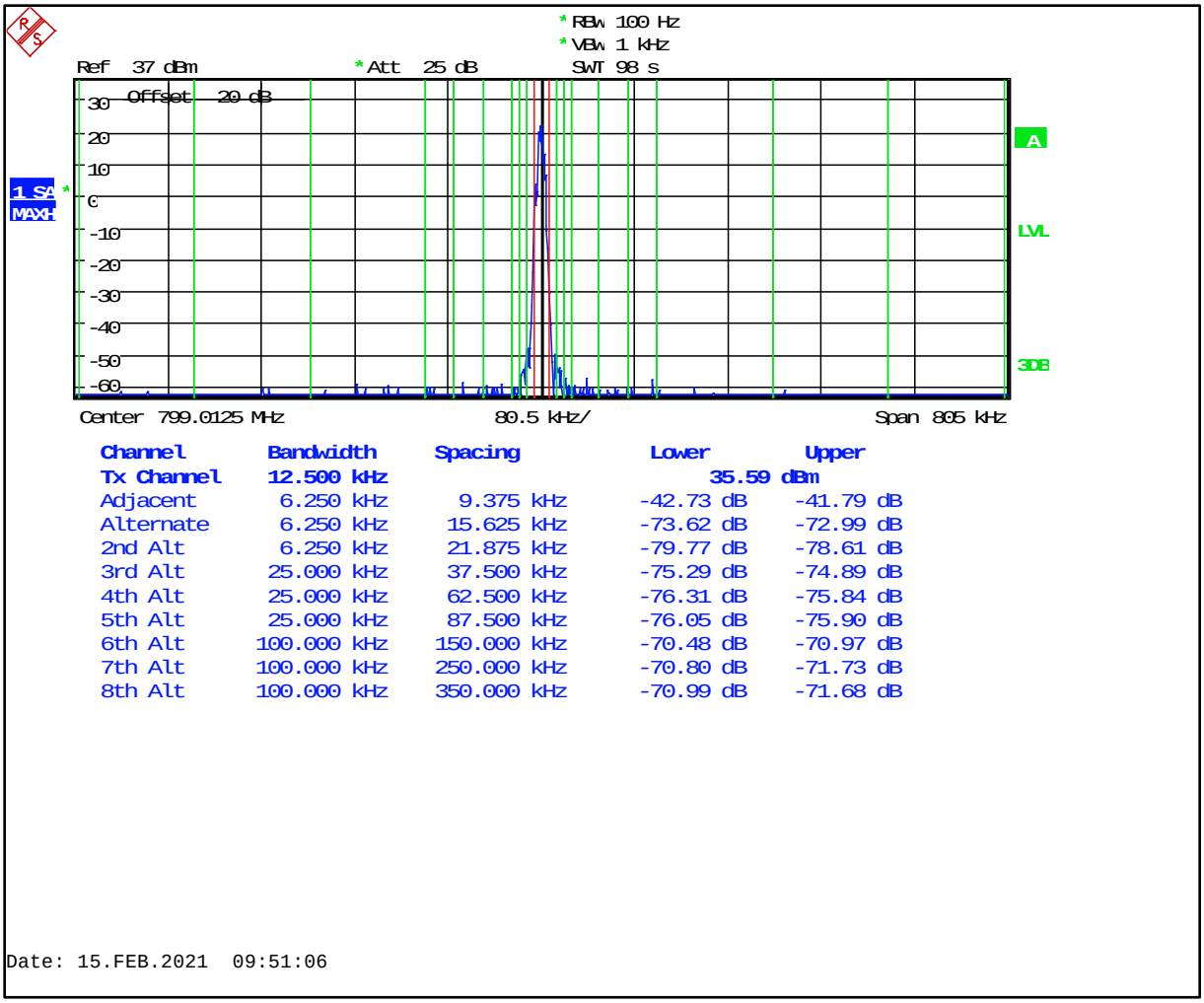


Table 6-67: Adjacent Channel Power - 799.0125 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.2
12 MHz to receive band	30(s)	-75	-100.5
In receive band	30(s)	-100	-105.6

Plot 6-76: Adjacent Channel Power - 802.0000 MHz; C4FM; 12.5 kHz Channel Spacing

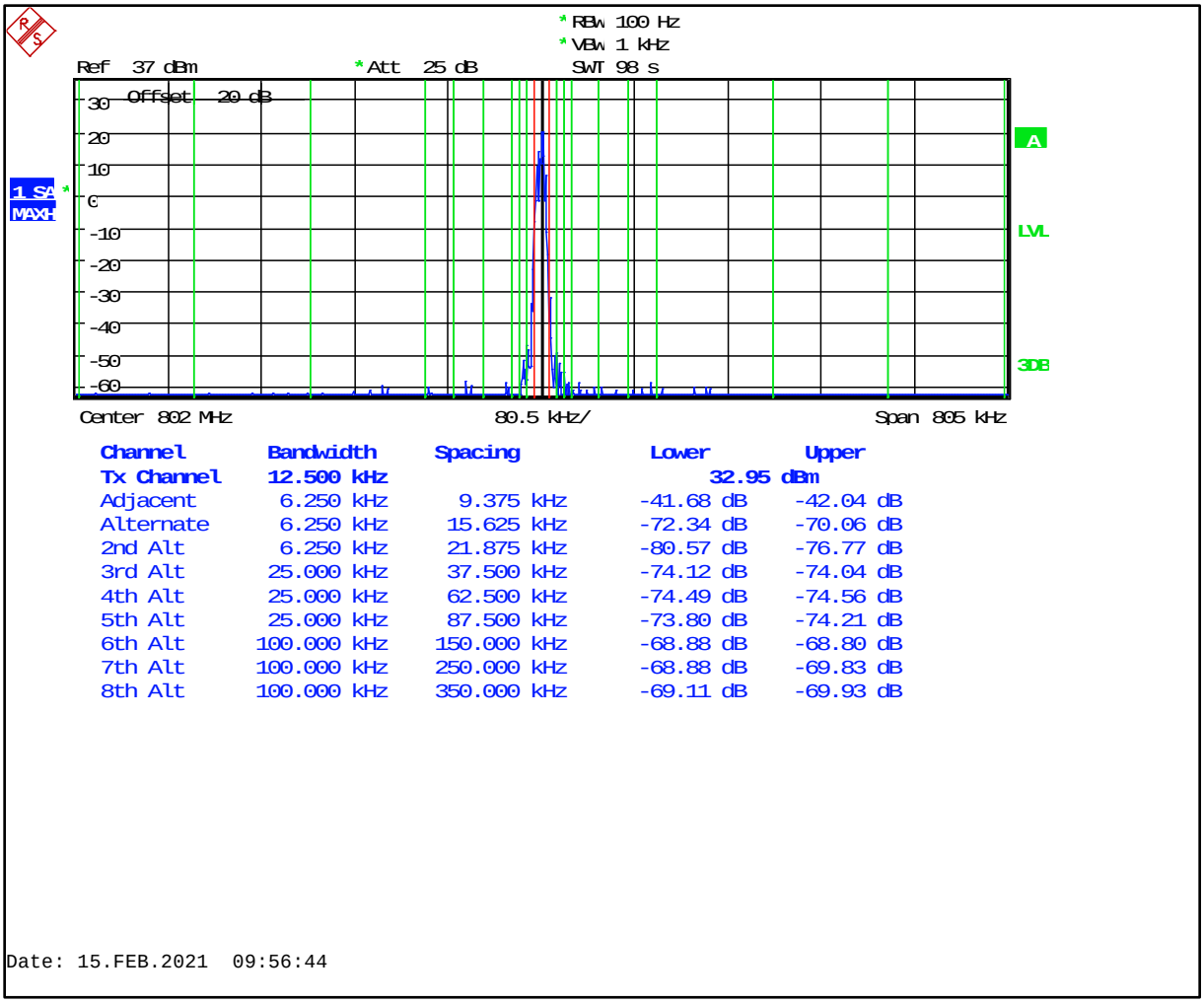


Table 6-68: Adjacent Channel Power - 802.0000 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.4
12 MHz to receive band	30(s)	-75	-98.0
In receive band	30(s)	-100	-110.0

Plot 6-77: Adjacent Channel Power – 804.9875 MHz; C4FM; 12.5 kHz Channel Spacing

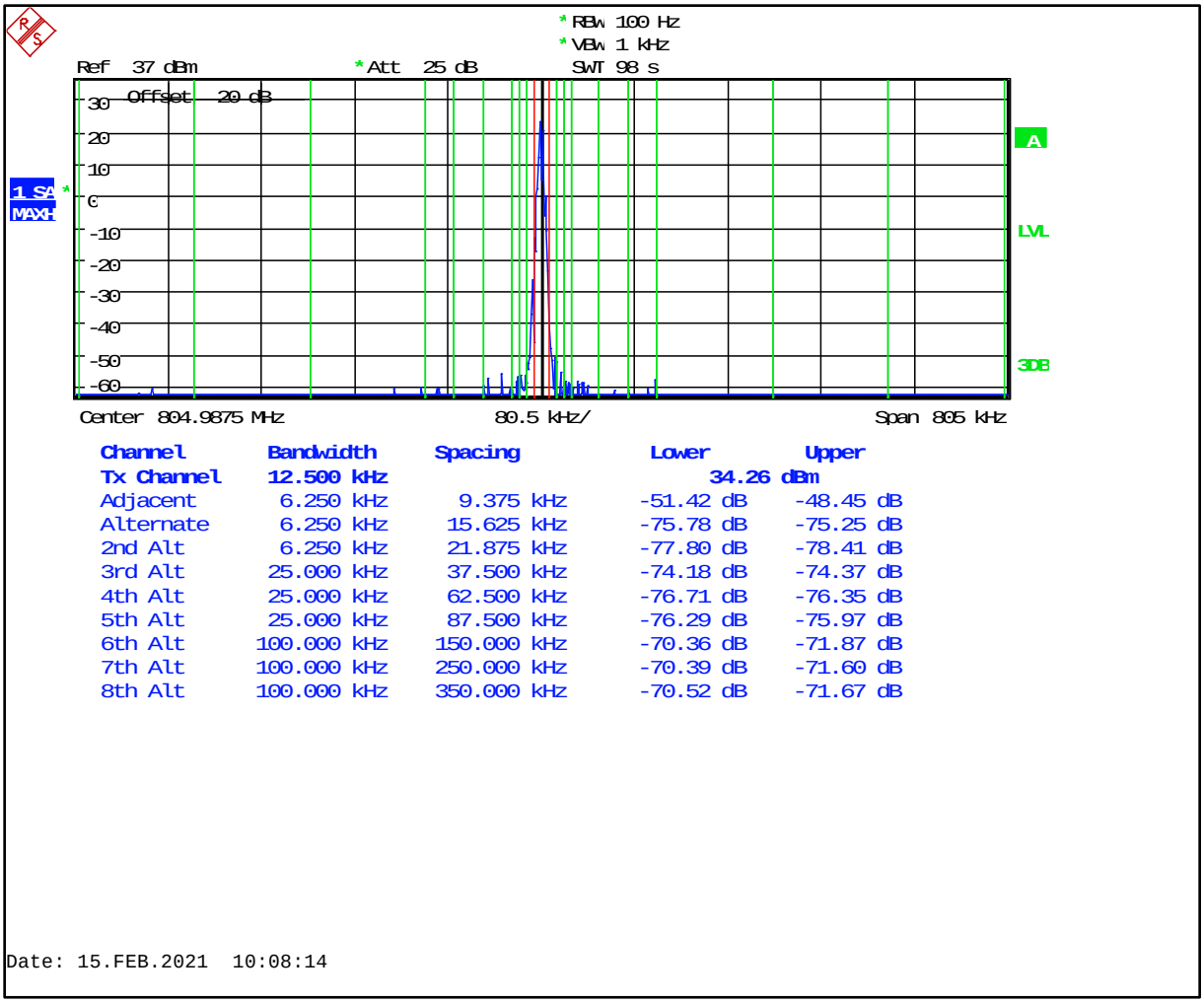


Table 6-69: Adjacent Channel Power – 804.9875 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.1
12 MHz to receive band	30(s)	-75	-97.2
In receive band	30(s)	-100	-110.7

Plot 6-78: Adjacent Channel Power – 805.9875 MHz; C4FM; 12.5 kHz Channel Spacing

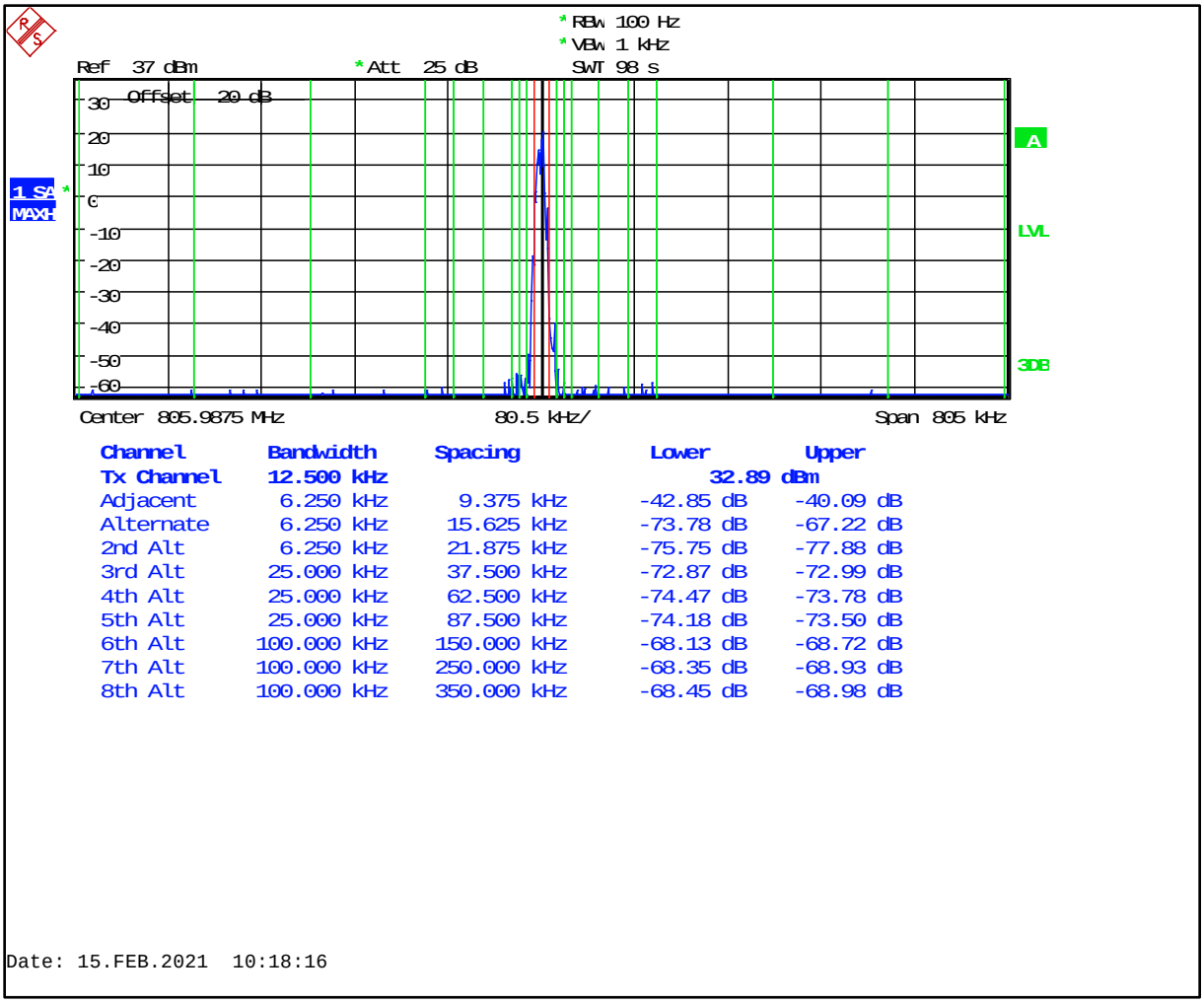


Table 6-70: Adjacent Channel Power – 805.9875 MHz; C4FM; 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.4
12 MHz to receive band	30(s)	-75	-96.9
In receive band	30(s)	-100	-114.1

Plot 6-79: Adjacent Channel Power - 768.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

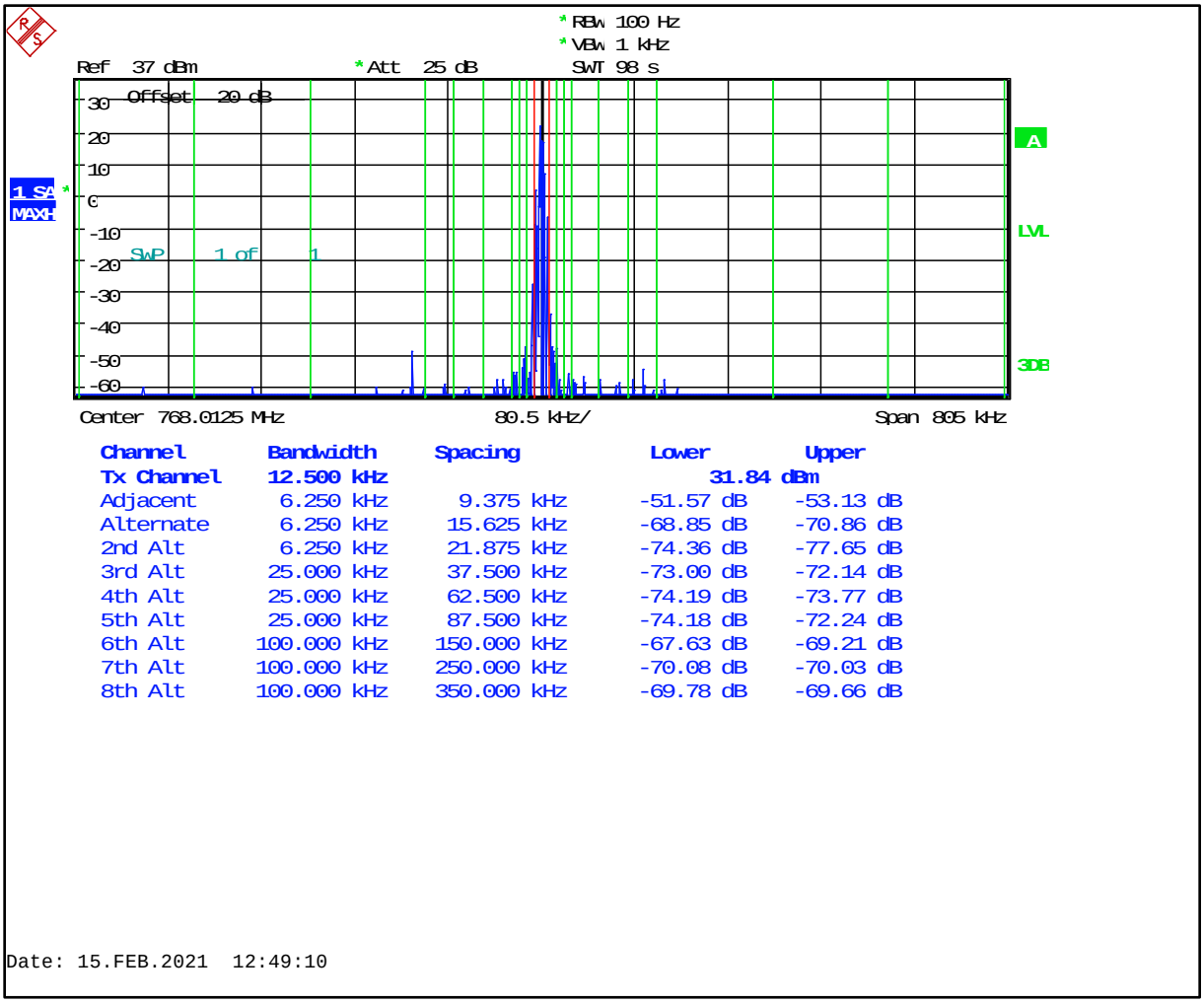


Table 6-71: Adjacent Channel Power - 768.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-75.5
12 MHz to receive band	30(s)	-75	-98.4
In receive band	30(s)	-100	-118.2

Plot 6-80: Adjacent Channel Power - 769.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

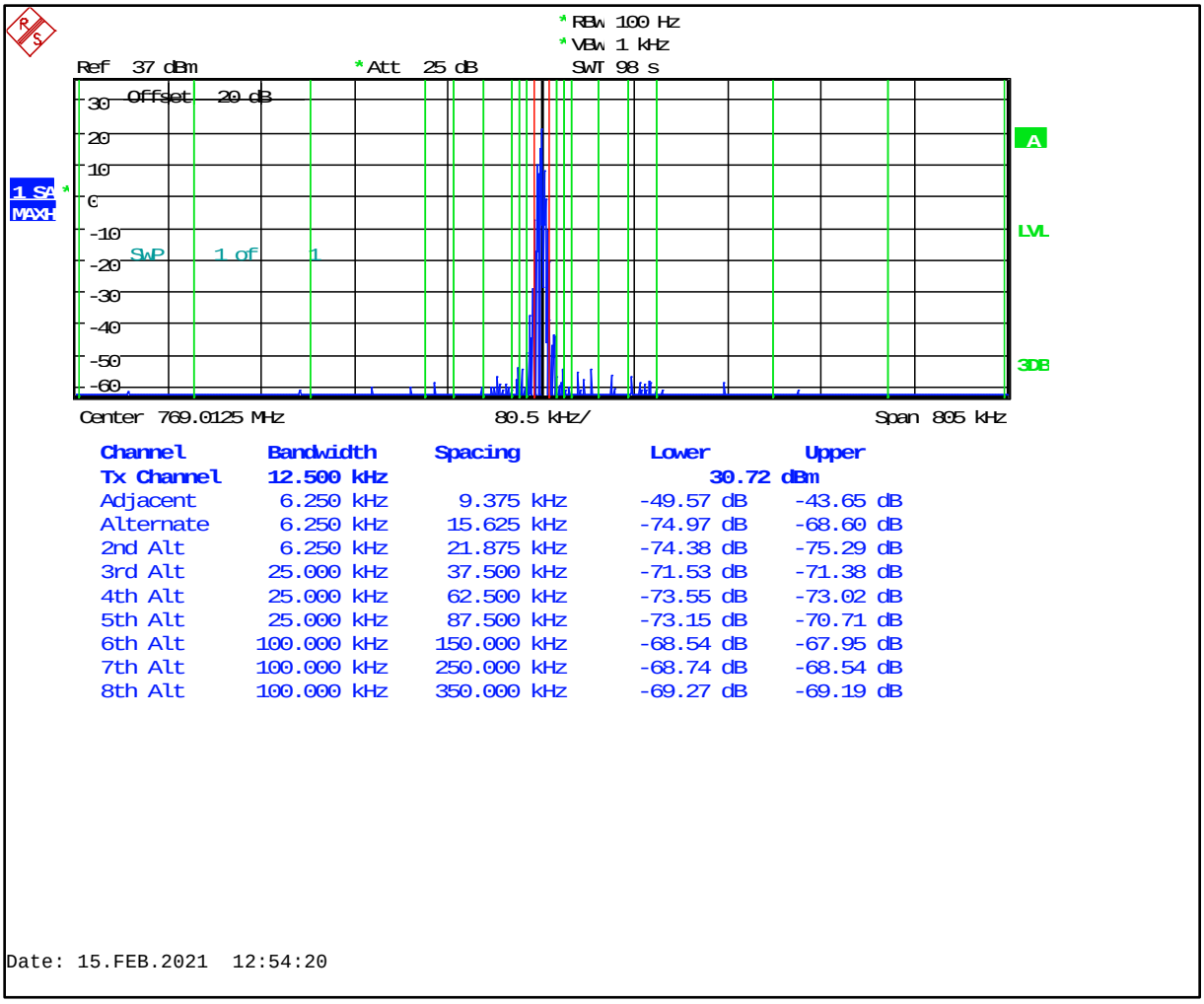


Table 6-72: Adjacent Channel Power - 769.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.6
12 MHz to receive band	30(s)	-75	-105.1
In receive band	30(s)	-100	-118.4

Plot 6-81: Adjacent Channel Power - 772.0000 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

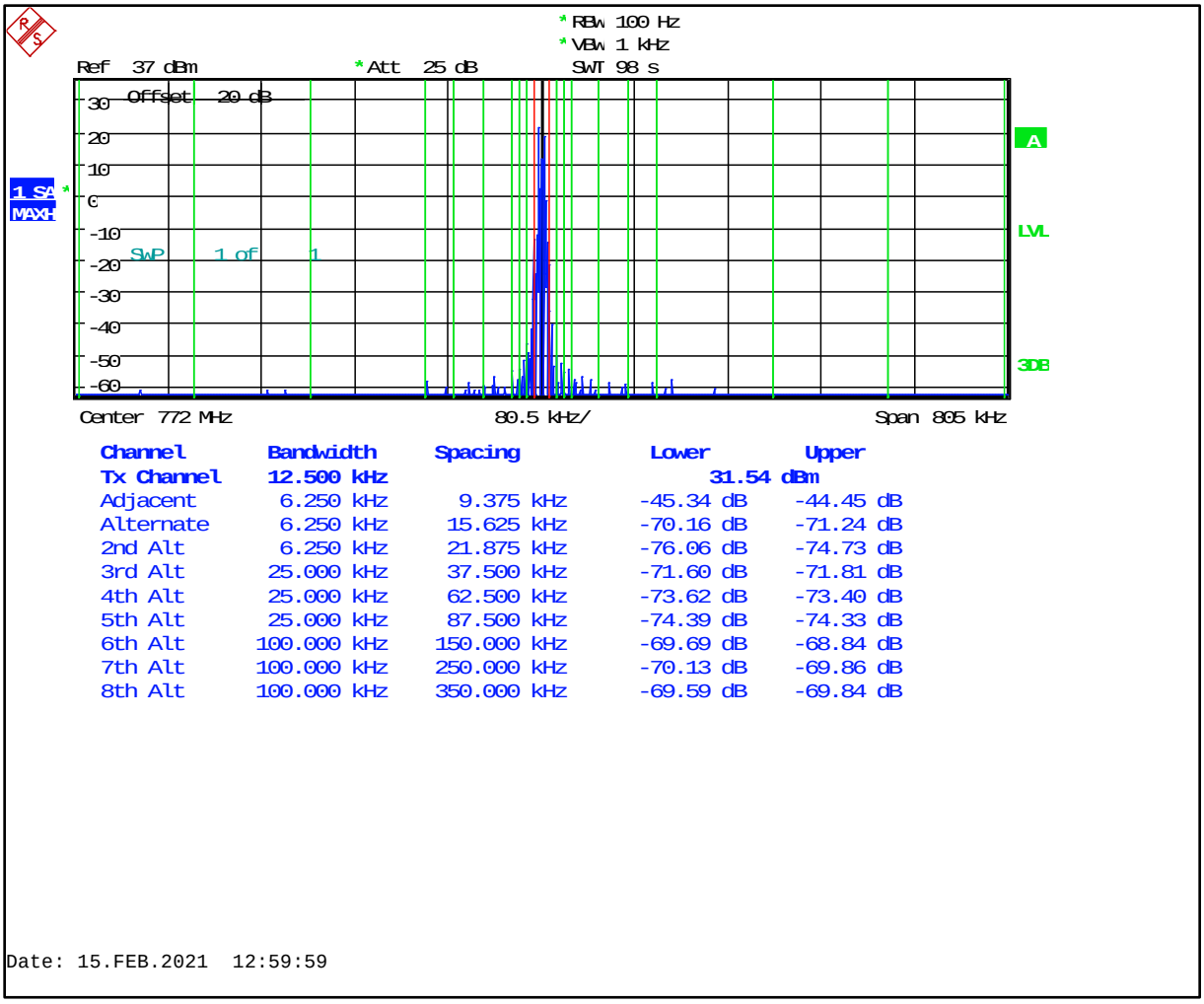


Table 6-73: Adjacent Channel Power - 772.0000 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.8
12 MHz to receive band	30(s)	-75	-103.3
In receive band	30(s)	-100	-117.1

Plot 6-82: Adjacent Channel Power - 774.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

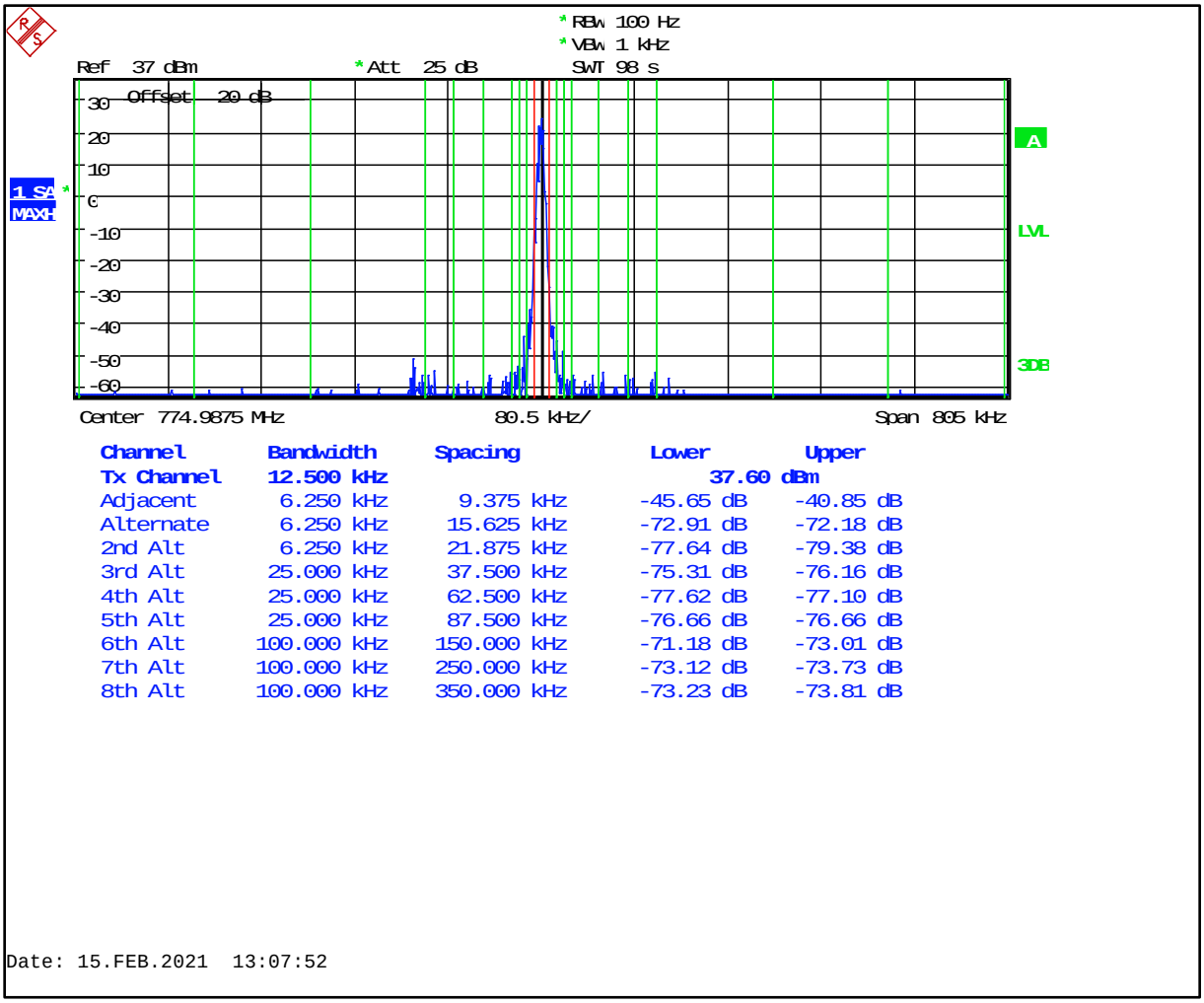


Table 6-74: Adjacent Channel Power - 774.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.3
12 MHz to receive band	30(s)	-75	-103.2
In receive band	30(s)	-100	-117.0

Plot 6-83: Adjacent Channel Power - 775.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

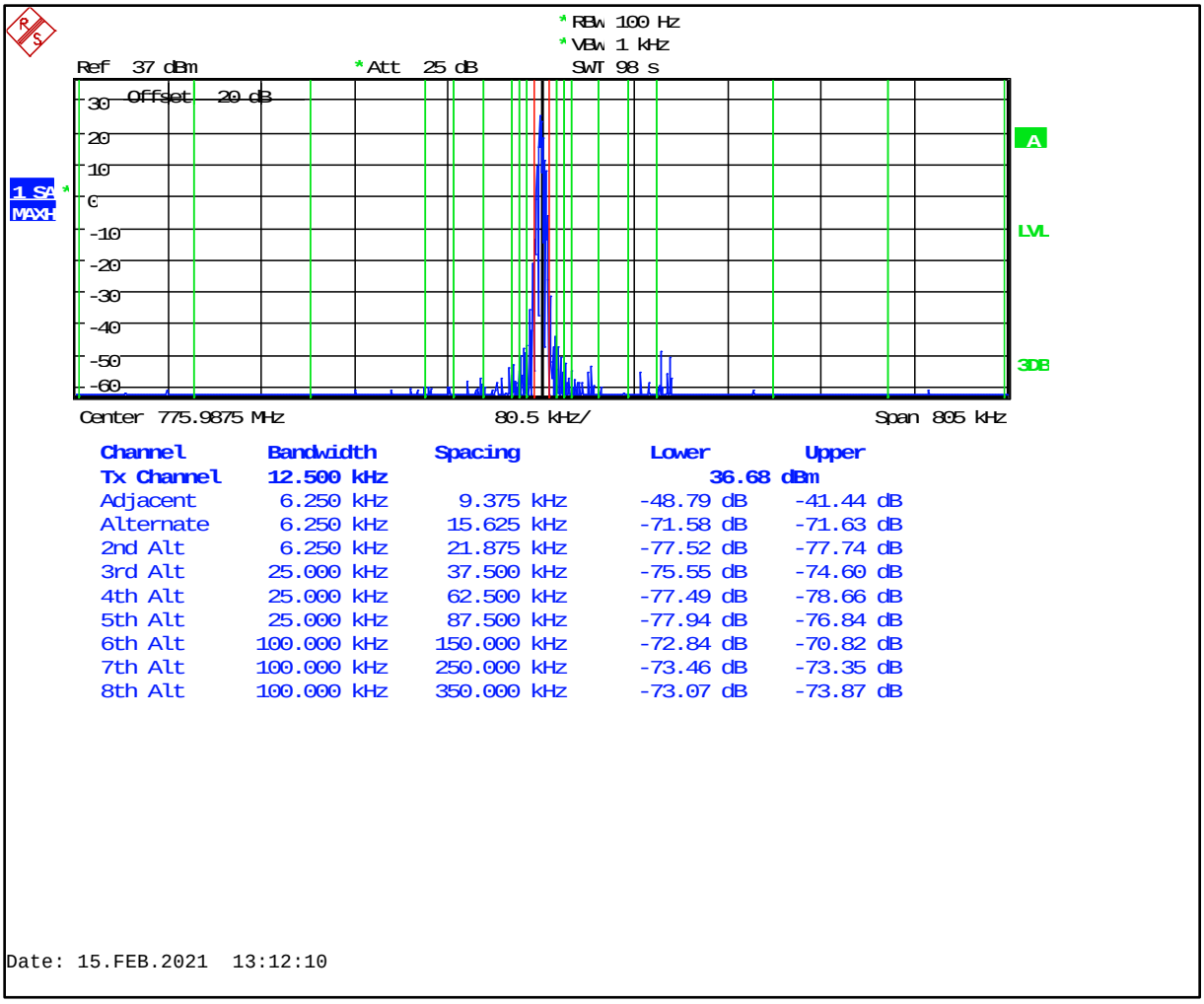


Table 6-75: Adjacent Channel Power - 775.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.3
12 MHz to receive band	30(s)	-75	-102.1
In receive band	30(s)	-100	-117.2

Plot 6-84: Adjacent Channel Power - 798.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

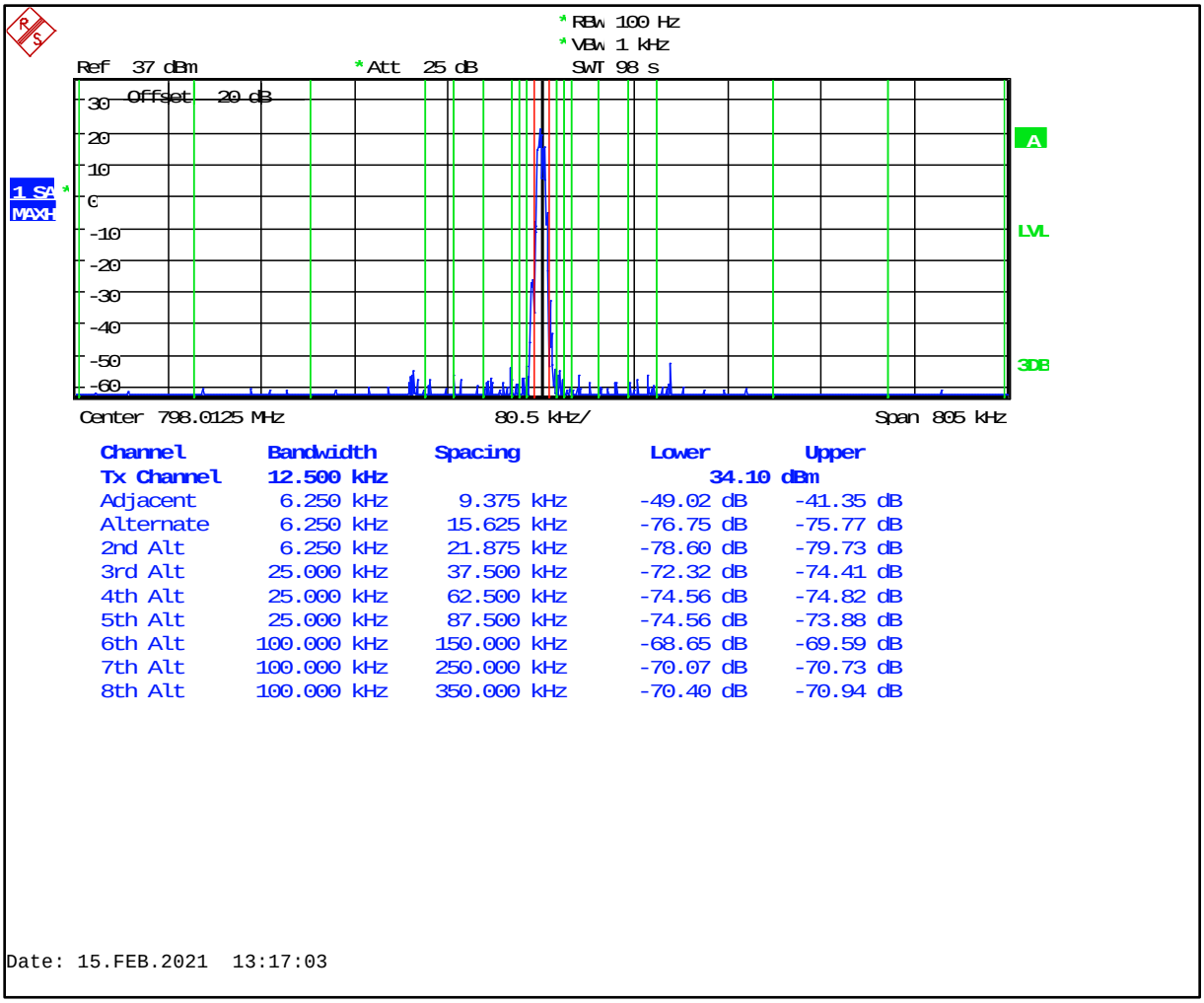


Table 6-76: Adjacent Channel Power - 798.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.0
12 MHz to receive band	30(s)	-75	-79.2
In receive band	30(s)	-100	-103.9

Plot 6-85: Adjacent Channel Power - 799.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

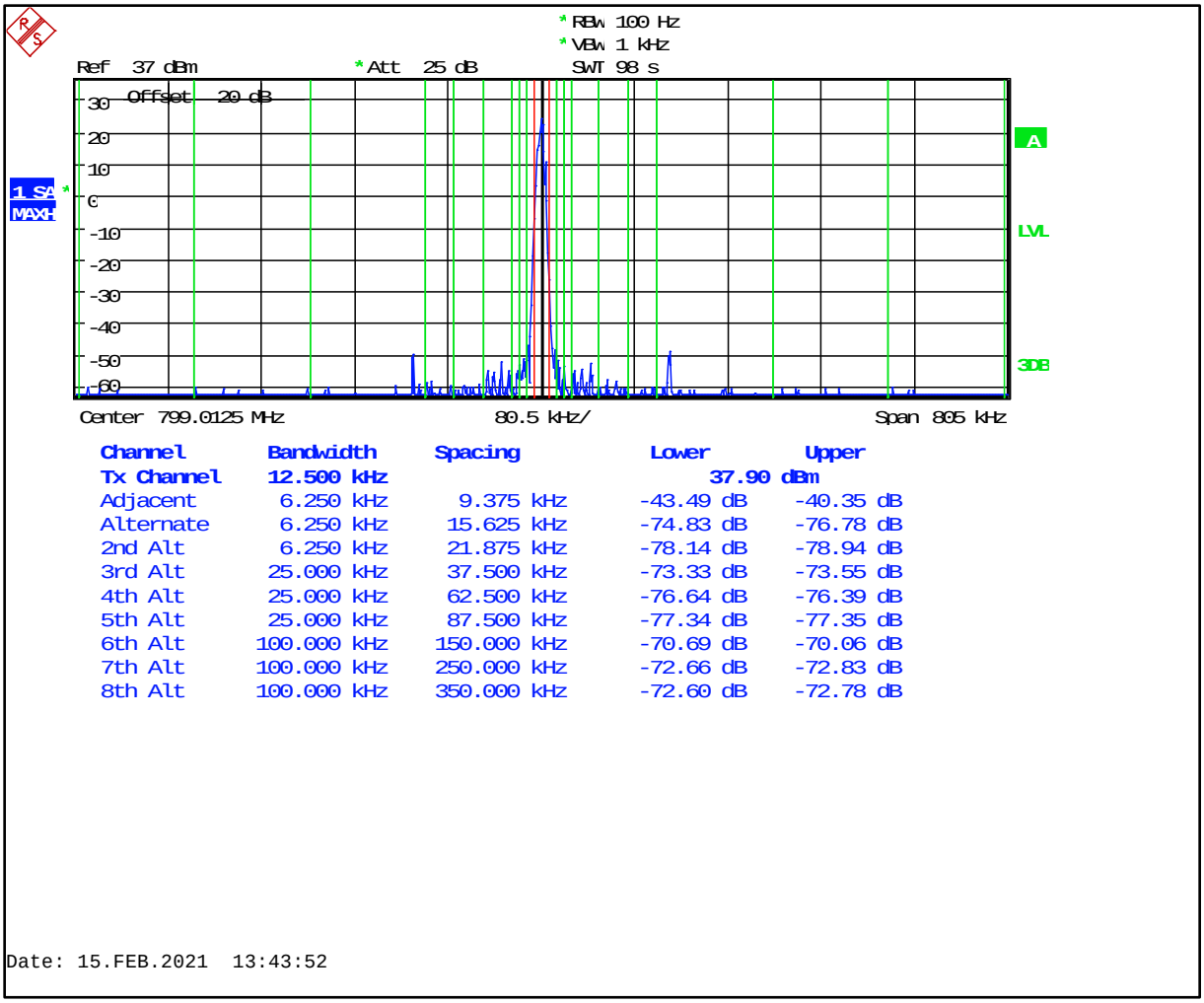


Table 6-77: Adjacent Channel Power - 799.0125 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.7
12 MHz to receive band	30(s)	-75	-100.5
In receive band	30(s)	-100	-105.6

Plot 6-86: Adjacent Channel Power - 802.0000 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

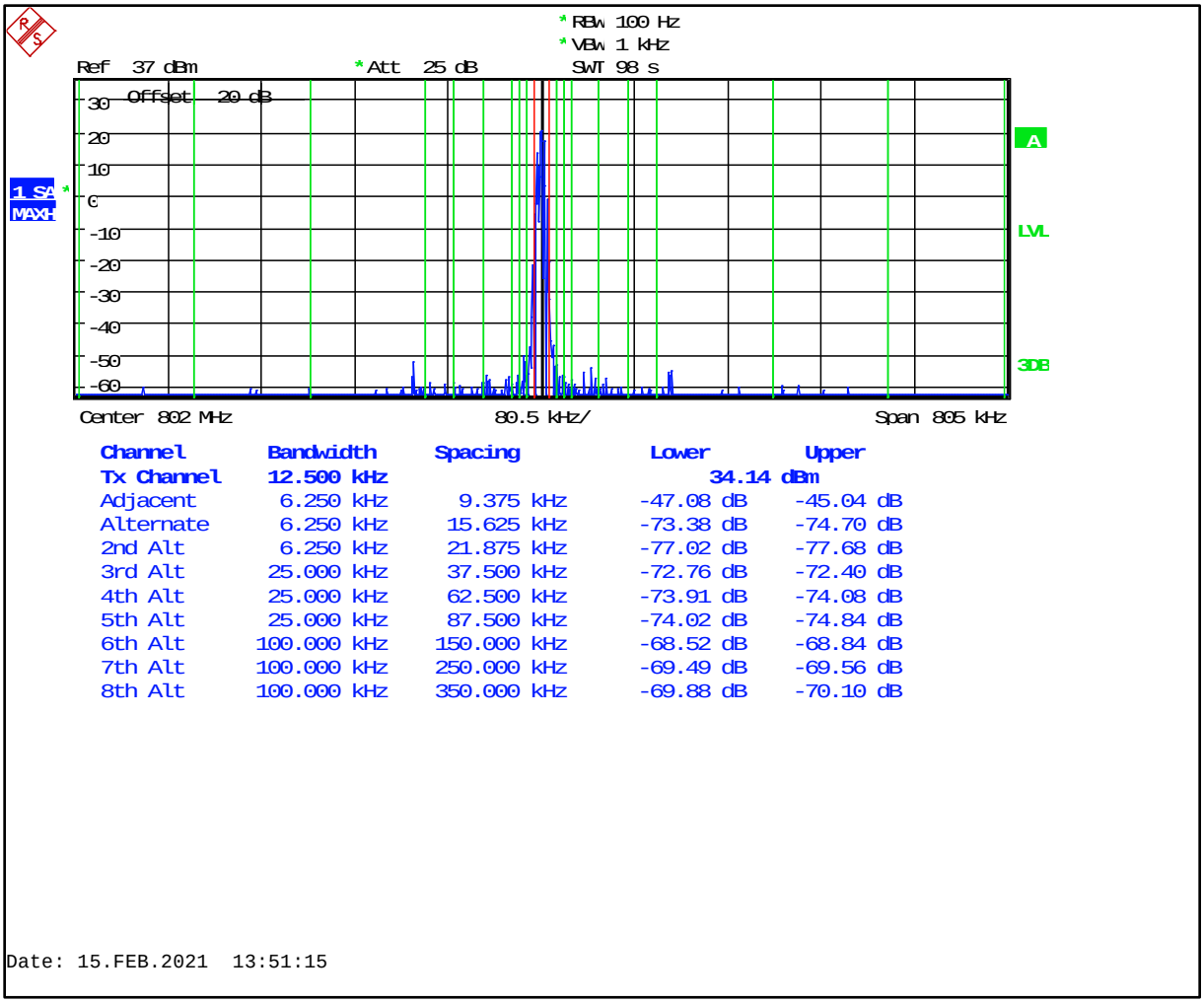


Table 6-78: Adjacent Channel Power - 802.0000 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-88.0
12 MHz to receive band	30(s)	-75	-98.3
In receive band	30(s)	-100	-109.8

Plot 6-87: Adjacent Channel Power – 804.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

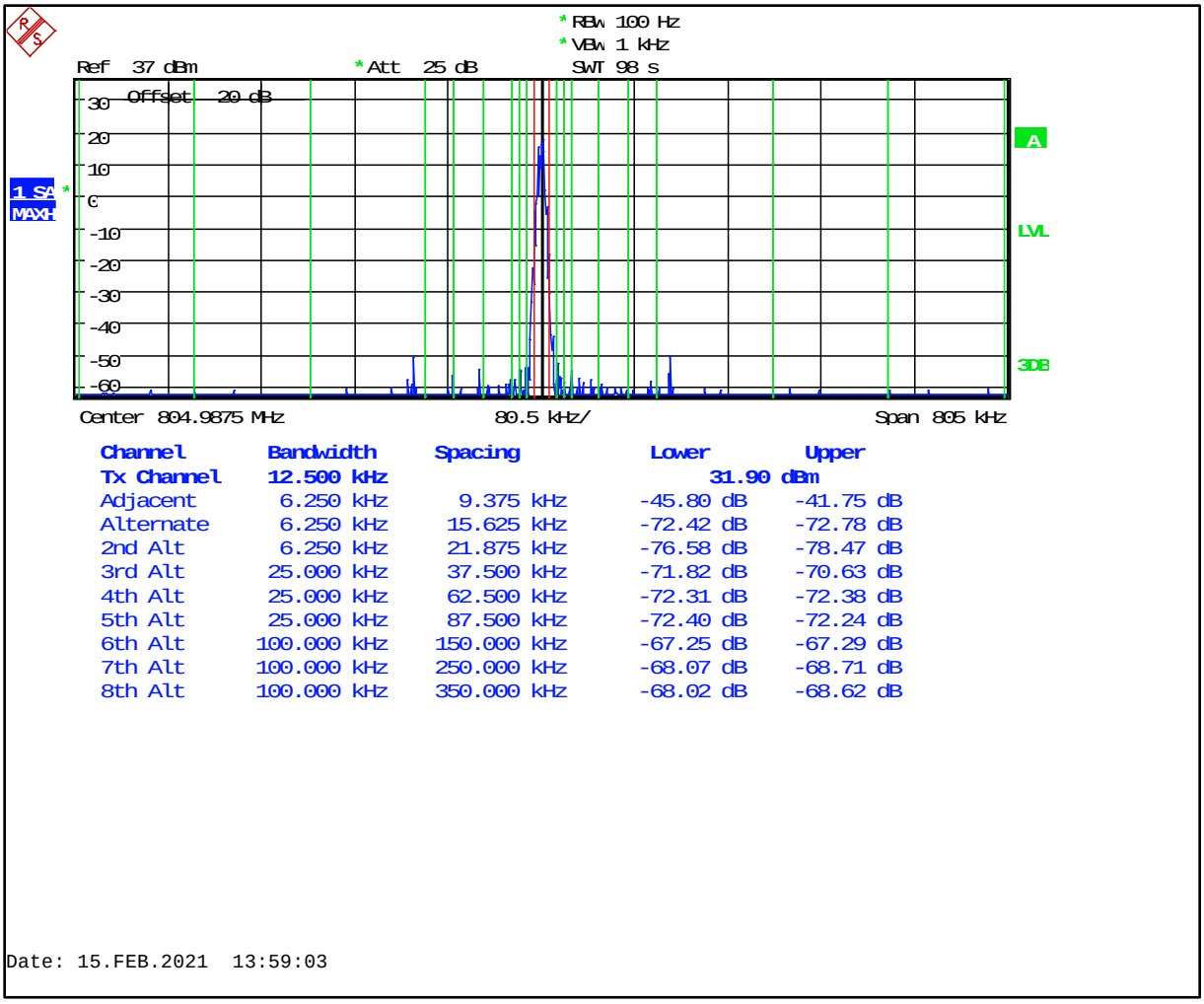


Table 6-79: Adjacent Channel Power – 804.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.9
12 MHz to receive band	30(s)	-75	-97.2
In receive band	30(s)	-100	-110.9

Plot 6-88: Adjacent Channel Power – 805.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

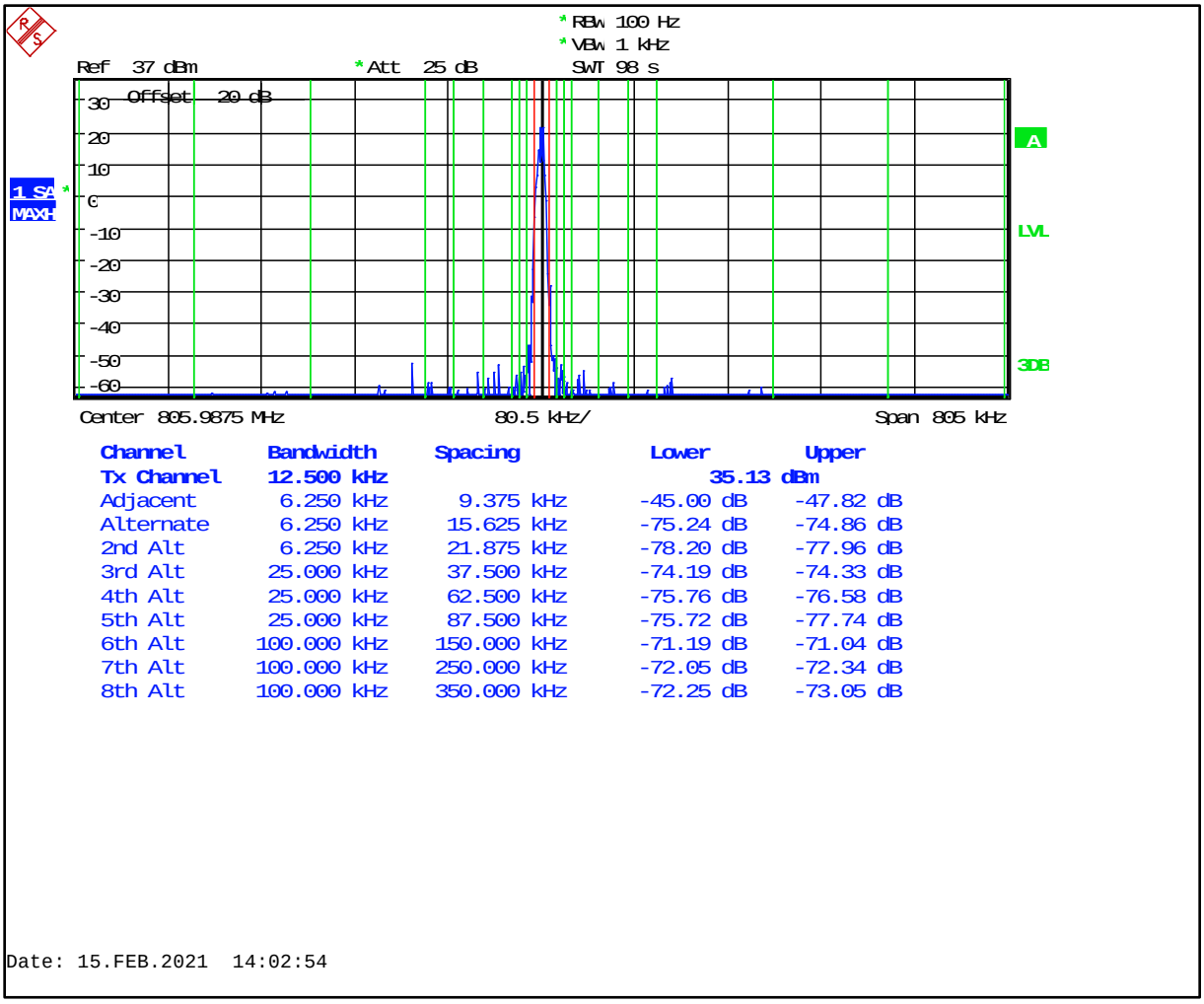


Table 6-80: Adjacent Channel Power – 805.9875 MHz; H-CPM (TDMA); 12.5 kHz Channel Spacing

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Max ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.5
12 MHz to receive band	30(s)	-75	-96.6
In receive band	30(s)	-100	-114.2

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level using a coverage factor K=2. Measurement uncertainty: ±0.5 Hz/±0.5 dB

Results: Pass

Table 6-81: Test Equipment Used For Testing ACP Requirements

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	04/26/21
901139	Weinschel Corp	48-20-34	20 dB Attenuator; 100 W	BK5859	05/04/21
901724	API Weinschel, Inc.	48-40-34	40 dB 100W Attenuator	CJ8921	09/15/21

Test Personnel:

Daniel W. Baltzell		February 12-22, 2021
EMC Test Engineer	Signature	Dates of Tests

7 FCC §2.1053(a): Field Strength of Spurious Radiation; §22.359: Emission Limitations; §80.211: Emission Limitations; §90.543(f)(3): Emission Limitations; ISED RSS-119 5.8.9.2: Out-of-band Emission Limit

7.1 Test Procedure

FCC 90.543(f) - ANSI C63.26-2015 section 6.5.2.7.4

For emissions in the 1559-1610 band, Part 90.543(f) states: "For operations in the 763–775 MHz and 793–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

The GNSS data below is representative of the data which was not attenuated more than 20 dB below the worst case limits (narrowband); per FCC 2.1057(c), all other data need not be reported. It is narrowband data compared to wideband limits.

Analog Modulation: The transmitter is terminated with a 50 Ω load and is modulated with a 2,500 Hz sine wave at an input level 16 dB greater than that required to produce 50% of the rated system deviation at 1,000 Hz.

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence – 19,200 bps for OTP and 9,600 bps for P25.

FCC 2.1053 - ANSI C63.26-2015 section 5.5.3

Additionally, radiated emissions were investigated with the licensed and unlicensed (DSS, DTS, NII) transmitters transmitting simultaneously. No non-compliances were found.

7.2 Test Data

7.2.1 §90.543(f) Requirements

Limit: -70 dBW EIRP Broadband >700 Hz; No Narrowband emissions found.

Table 7-1: GNSS Band Spurious Radiation – NB Analog

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss 3(dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-82.9	-57.4	1.1	1.5	-87.0	-17.0
1598.025	-83.9	-63.8	1.1	1.5	-93.4	-23.4
1604.025	-79.4	-60.6	1.1	1.5	-90.2	-20.2
1609.975	-86.3	-63.9	1.1	1.5	-93.5	-23.5

Table 7-2: GNSS Band Spurious Radiation – WB Analog

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-88.8	-68.6	1.1	1.5	-98.2	-28.2
1598.025	-87.9	-67.8	1.1	1.5	-97.4	-27.4
1604.025	-91.3	-72.5	1.1	1.5	-102.1	-32.1
1609.975	-88.8	-66.4	1.1	1.5	-96.0	-26.0

Table 7-3: GNSS Band Spurious Radiation – NPSPAC Analog

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-88.9	-68.7	1.1	1.5	-98.3	-28.3
1598.025	-86.6	-66.5	1.1	1.5	-96.1	-26.1
1604.025	-93.7	-72.2	1.1	1.5	-101.8	-31.8
1609.975	-81.5	-59.1	1.1	1.5	-88.7	-18.7

Table 7-4: GNSS Band Spurious Radiation – C4FM

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.7	-57.8	1.1	1.5	-87.4	-17.4
1598.025	-78.5	-56.9	1.1	1.5	-86.5	-16.5
1604.025	-76.0	-55.8	1.1	1.5	-85.4	-15.4
1609.975	-80.4	-58.2	1.1	1.5	-87.8	-17.8

Table 7-5: GNSS Band Spurious Radiation – H-CPM TDMA

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-78.1	-57.9	1.1	1.5	-87.5	-17.5
1598.025	-79.1	-59.0	1.1	1.5	-88.6	-18.6
1604.025	-78.9	-60.1	1.1	1.5	-89.7	-19.7
1609.975	-79.0	-56.6	1.1	1.5	-86.2	-16.2

Table 7-6: GNSS Band Spurious Radiation - HVD

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.6	-57.3	1.1	1.5	-86.9	-16.9
1598.025	-78.8	-58.7	1.1	1.5	-88.3	-18.3
1604.025	-78.2	-59.4	1.1	1.5	-89.0	-19.0
1609.975	-84.5	-62.1	1.1	1.5	-91.7	-21.7

Table 7-7: GNSS Band Spurious Radiation – HVD NPSPAC

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.7	-57.4	1.1	1.5	-87.0	-17.0
1598.025	-78.9	-58.9	1.1	1.5	-88.5	-18.5
1604.025	-77.7	-58.8	1.1	1.5	-88.4	-18.4
1609.975	-78.9	-56.5	1.1	1.5	-86.1	-16.1

Table 7-8: GNSS Band Spurious Radiation - WB 2-level FSK

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.6	-57.3	1.1	1.5	-86.9	-16.9
1598.025	-78.6	-58.5	1.1	1.5	-88.1	-18.1
1604.025	-77.9	-59.1	1.1	1.5	-88.7	-18.7
1609.975	-79.9	-57.5	1.1	1.5	-87.1	-17.1

Table 7-9: GNSS Band Spurious Radiation - NB 2-level FSK

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.6	-57.4	1.1	1.5	-87.0	-17.0
1598.025	-78.5	-58.4	1.1	1.5	-88.0	-18.0
1604.025	-78.2	-59.3	1.1	1.5	-88.9	-18.9
1609.975	-79.6	-57.2	1.1	1.5	-86.8	-16.8

Table 7-10: GNSS Band Spurious Radiation - NPSPAC 2-level FSK

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Signal Generator Level (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Margin (dB)
1596.025	-77.6	-57.4	1.1	1.5	-87.0	-17.0
1598.025	-78.6	-58.5	1.1	1.5	-88.1	-18.1
1604.025	-78.1	-59.2	1.1	1.5	-88.8	-18.8
1609.975	-79.3	-56.9	1.1	1.5	-86.5	-16.5

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level using a coverage factor K=2. Measurement uncertainty: ±0.5 dB

Results: Pass

7.3 Test Data

7.3.1 §2.1053 Requirements

Limit: 50+10LogP narrowband limit used as worst case limit.

UHF band data is for engineering use only, and not applicable to the current equipment authorization application.

Table 7-11: Field Strength of Spurious Radiation; 136.0125 MHz

Fundamental Power Measured = 38.2 dBm; 6.5 W; Limit = 58.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
272.0250	46.0	-33.7	0.2	-0.5	72.5	-14.4
408.0375	44.6	-36.2	0.2	-0.4	75.0	-16.9
544.0500	27.9	-51.9	0.2	-0.7	91.0	-32.9
680.0625	23.7	-52.3	0.2	-0.9	91.7	-33.5
816.0750	21.6	-56.3	0.3	-1.5	96.2	-38.1
952.0875	19.0	-54.2	0.3	-0.9	93.7	-35.5
1088.1000	16.5	-59.0	0.3	4.6	92.9	-34.8
1224.1125	15.4	-59.4	0.3	4.8	93.1	-35.0
1360.1250	-3.4	-78.3	0.4	5.6	111.2	-53.1

Table 7-12: Field Strength of Spurious Radiation; 138.0125 MHz

Fundamental Power Measured = 38.1 dBm; 6.5 W; Limit = 58.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
276.0250	53.4	-31.6	0.2	-0.5	70.3	-12.2
414.0375	47.2	-32.5	0.2	-0.4	71.2	-13.1
552.0500	25.6	-54.1	0.2	-0.7	93.2	-35.1
690.0625	20.7	-54.2	0.2	-0.9	93.4	-35.3
828.0750	20.9	-56.9	0.3	-1.4	96.7	-38.6
966.0875	16.9	-57.2	0.3	-0.9	96.5	-38.4
1104.1000	12.3	-63.2	0.3	4.6	97.0	-38.8
1242.1125	10.0	-65.3	0.3	4.9	98.8	-40.7
1380.1250	-1.3	-75.4	0.4	5.8	108.0	-49.9

Table 7-13: Field Strength of Spurious Radiation; 141.0125 MHz

Fundamental Power Measured = 38 dBm; 6.4 W; Limit = 58.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
282.0250	43.8	-37.8	0.2	-0.6	76.5	-18.5
423.0375	43.5	-35.8	0.2	-0.4	74.4	-16.4
564.0500	26.7	-53.6	0.2	-0.8	92.6	-34.6
705.0625	20.7	-55.2	0.2	-1.0	94.4	-36.4
846.0750	19.0	-59.5	0.3	-1.4	99.2	-41.2
987.0875	10.6	-62.3	0.3	-0.7	101.3	-43.2
1128.1000	9.7	-66.1	0.3	4.6	99.8	-41.7
1269.1125	1.7	-73.9	0.3	5.0	107.3	-49.2
1410.1250	2.0	-72.6	0.4	6.0	105.0	-46.9

Table 7-14: Field Strength of Spurious Radiation; 143.9875 MHz

Fundamental Power Measured = 38.1 dBm; 6.5 W; Limit = 58.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
287.9750	33.0	-52.3	0.2	-0.6	91.2	-33.1
431.9625	27.5	-52.1	0.2	-0.4	90.8	-32.7
575.9500	13.7	-66.7	0.2	-0.8	105.9	-47.8
719.9375	0.9	-78.0	0.2	-1.0	117.4	-59.3
863.9250	3.0	-74.3	0.3	-1.4	114.1	-55.9
1007.9125	-2.6	-78.1	0.3	4.4	112.1	-54.0
1151.9000	-3.9	-79.4	0.3	4.7	113.1	-55.0
1295.8875	0.7	-75.1	0.3	5.1	108.4	-50.3
1439.8750	-6.6	-81.2	0.4	6.1	113.5	-55.4

Table 7-15: Field Strength of Spurious Radiation; 148.0125 MHz

Fundamental Power Measured = 38.2 dBm; 6.6 W; Limit = 58.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
296.0250	39.2	-45.3	0.2	-0.7	84.4	-26.2
444.0375	36.7	-45.8	0.2	-0.4	84.6	-26.4
592.0500	14.5	-65.7	0.2	-0.8	105.0	-46.8
740.0625	14.4	-65.4	0.2	-1.2	105.0	-46.8
888.0750	16.7	-57.2	0.3	-1.3	96.9	-38.7
1036.0875	0.6	-75.6	0.3	4.4	109.7	-51.5
1184.1000	-8.5	-83.8	0.3	4.7	117.6	-59.5
1332.1125	-5.8	-81.2	0.4	5.4	114.3	-56.1
1480.1250	-11.7	-86.4	0.4	6.3	118.6	-60.4

Table 7-16: Field Strength of Spurious Radiation; 150.0125 MHz

Fundamental Power Measured = 38.2 dBm; 6.6 W; Limit = 58.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
300.0250	35.5	-49.1	0.2	-0.7	88.2	-30.0
450.0375	34.9	-47.4	0.2	-0.4	86.2	-28.0
600.0500	11.9	-68.3	0.2	-0.8	107.6	-49.4
750.0625	5.1	-71.9	0.2	-1.2	111.6	-53.4
900.0750	-6.3	-80.6	0.3	-1.2	120.4	-62.2
1050.0875	-1.5	-77.6	0.3	4.5	111.7	-53.5
1200.1000	-2.9	-78.0	0.3	4.7	111.8	-53.6
1350.1125	-11.8	-86.9	0.4	5.6	119.9	-61.7
1500.1250	-14.5	-88.1	0.4	6.4	120.2	-62.0

Table 7-17: Field Strength of Spurious Radiation; 156.8000 MHz

Fundamental Power Measured = 38.2 dBm; 6.7 W; Limit = 58.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
313.6000	35.6	-46.6	0.2	-0.6	85.6	-27.3
470.4000	36.5	-43.9	0.2	-0.5	82.8	-24.5
627.2000	27.4	-53.1	0.2	-0.8	92.3	-34.1
784.0000	18.4	-61.0	0.3	-1.4	100.9	-42.6
940.8000	0.1	-74.7	0.3	-1.0	114.2	-55.9
1097.6000	2.3	-73.9	0.3	4.6	107.8	-49.6
1254.4000	-3.3	-78.8	0.3	4.9	112.4	-54.2
1411.2000	-8.5	-83.1	0.4	6.0	115.7	-57.4
1568.0000	-8.4	-83.2	0.4	6.7	115.1	-56.9

Table 7-18: Field Strength of Spurious Radiation; 162.0125 MHz

Fundamental Power Measured = 38.3 dBm; 6.7 W; Limit = 58.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
324.0250	36.1	-46.6	0.2	-0.6	85.6	-27.4
486.0375	40.4	-39.6	0.2	-0.6	78.7	-20.4
648.0500	22.1	-58.1	0.2	-0.8	97.5	-39.3
810.0625	22.7	-52.6	0.3	-1.5	92.7	-34.4
972.0750	11.1	-62.2	0.3	-0.9	101.6	-43.3
1134.0875	19.6	-56.2	0.3	4.7	90.2	-31.9
1296.1000	-2.6	-78.4	0.3	5.1	111.9	-53.7
1458.1125	-11.2	-84.9	0.4	6.2	117.4	-59.1
1620.1250	-12.0	-86.5	0.4	6.7	118.5	-60.3

Table 7-19: Field Strength of Spurious Radiation; 173.9875 MHz

Fundamental Power Measured = 38.1 dBm; 6.5 W; Limit = 58.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
347.9750	29.6	-53.2	0.2	-0.5	92.0	-33.8
521.9625	33.0	-48.0	0.2	-0.6	86.9	-28.8
695.9500	7.4	-67.8	0.2	-0.9	107.0	-48.9
869.9375	-0.1	-78.0	0.3	-1.4	117.7	-59.6
1043.9250	-7.9	-83.9	0.3	4.5	117.9	-59.7
1217.9125	-12.9	-87.7	0.3	4.8	121.3	-63.2
1391.9000	-15.1	-90.0	0.4	5.9	122.6	-64.5
1565.8875	-15.4	-89.6	0.4	6.7	121.4	-63.3
1739.8750	-15.6	-89.9	0.4	6.5	122.0	-63.8

Table 7-20: Field Strength of Spurious Radiation; 378.0125 MHz

Fundamental Power Measured = 37.3 dBm; 5.4 W; Limit = 57.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
756.0250	24.5	-52.2	0.2	-1.3	91.0	-33.7
1134.0375	22.4	-53.4	0.3	4.7	86.4	-29.0
1512.0500	12.3	-62.5	0.4	6.5	93.7	-36.4
1890.0625	10.7	-63.6	0.5	6.3	95.0	-37.7
2268.0750	-1.0	-75.1	0.5	7.2	105.8	-48.4
2646.0875	-2.4	-77.3	0.6	7.6	107.6	-50.3
3024.1000	-5.1	-78.9	0.7	7.3	109.6	-52.2
3402.1125	-9.4	-83.0	0.7	7.6	113.5	-56.2
3780.1250	-13.2	-86.7	0.8	7.0	117.8	-60.5

Table 7-21: Field Strength of Spurious Radiation; 406.1125 MHz

Fundamental Power Measured = 37.5 dBm; 5.6 W; Limit = 57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
812.2250	44.7	-33.5	0.3	-1.5	72.7	-15.3
1218.3375	37.9	-36.9	0.3	4.8	69.9	-12.4
1624.4500	20.2	-54.3	0.4	6.7	85.5	-28.0
2030.5625	23.6	-50.6	0.5	6.7	81.9	-24.5
2436.6750	5.8	-68.2	0.6	-2.1	108.4	-51.0
2842.7875	13.6	-61.2	0.6	7.8	91.5	-34.0
3248.9000	4.6	-69.1	0.7	7.1	100.2	-42.7
3655.0125	5.2	-68.3	0.8	7.4	99.2	-41.7
4061.1250	6.5	-64.4	0.8	7.8	94.9	-37.5

Table 7-22: Field Strength of Spurious Radiation; 418.0000 MHz

Fundamental Power Measured = 37.4 dBm; 5.5 W; Limit = 57.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
836.0000	38.7	-36.0	0.3	-1.4	75.1	-17.7
1254.0000	33.9	-41.0	0.3	4.9	73.8	-16.4
1672.0000	14.0	-60.4	0.4	6.5	91.8	-34.4
2090.0000	15.7	-58.5	0.5	6.4	90.0	-32.6
2508.0000	-2.9	-76.9	0.6	7.4	107.5	-50.1
2926.0000	5.1	-68.7	0.6	7.6	99.1	-41.7
3344.0000	-3.9	-77.6	0.7	7.3	108.4	-51.0
3762.0000	1.5	-72.0	0.8	7.0	103.1	-45.7
4180.0000	-8.4	-79.4	0.9	8.4	109.3	-51.9

Table 7-23: Field Strength of Spurious Radiation; 429.9875 MHz

Fundamental Power Measured = 37.4 dBm; 5.5 W; Limit = 57.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
859.9750	28.8	-45.2	0.3	-1.4	84.2	-26.8
1289.9625	22.8	-52.1	0.3	5.1	84.8	-27.4
1719.9500	23.6	-51.6	0.4	6.4	83.0	-25.6
2149.9375	20.0	-54.2	0.5	6.6	85.5	-28.1
2579.9250	7.0	-67.0	0.6	7.4	97.5	-40.1
3009.9125	-9.1	-82.9	0.7	7.3	113.6	-56.2
3439.9000	-8.4	-82.0	0.7	7.6	112.6	-55.2
3869.8875	-16.5	-90.0	0.8	7.0	121.2	-63.8
4299.8750	-18.7	-89.8	0.9	8.7	119.4	-62.0

Table 7-24: Field Strength of Spurious Radiation; 450.0125 MHz

Fundamental Power Measured = 37.4 dBm; 5.5 W; Limit = 57.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
900.0250	31.5	-44.6	0.3	-1.2	83.5	-26.1
1350.0375	16.9	-58.2	0.4	5.6	90.4	-33.0
1800.0500	12.7	-62.5	0.4	6.7	93.7	-36.3
2250.0625	-3.6	-77.7	0.5	7.1	108.6	-51.2
2700.0750	-7.4	-81.3	0.6	7.7	111.6	-54.2
3150.0875	-14.0	-87.7	0.7	7.1	118.8	-61.4
3600.1000	-13.0	-86.6	0.8	7.6	117.1	-59.7
4050.1125	-17.2	-88.4	0.8	7.8	118.9	-61.5
4500.1250	-15.5	-86.8	0.9	8.8	116.3	-58.9

Table 7-25: Field Strength of Spurious Radiation; 453.8750 MHz

Fundamental Power Measured = 37.4 dBm; 5.5 W; Limit = 57.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
907.9750	28.5	-45.8	0.3	-1.2	84.7	-27.3
1361.9625	27.3	-48.2	0.4	5.7	80.3	-22.9
1815.9500	8.9	-65.4	0.4	6.6	96.6	-39.2
2269.9375	4.8	-70.2	0.5	7.2	101.0	-43.6
2723.9250	-7.5	-81.4	0.6	7.8	111.7	-54.3
3177.9125	-13.1	-86.8	0.7	7.1	117.9	-60.5
3631.9000	-11.3	-84.9	0.8	7.5	115.5	-58.1
4085.8875	-13.8	-84.8	0.8	8.0	115.0	-57.6
4539.8750	-14.9	-86.5	0.9	8.8	116.0	-58.6

Table 7-26: Field Strength of Spurious Radiation; 456.0125 MHz

Fundamental Power Measured = 37.4 dBm; 5.6 W; Limit = 57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
912.0250	30.7	-45.0	0.3	-1.2	83.9	-26.4
1368.0375	19.4	-55.9	0.4	5.7	87.9	-30.4
1824.0500	14.5	-60.7	0.4	6.6	92.0	-34.5
2280.0625	-5.1	-79.2	0.5	7.2	109.9	-52.4
2736.0750	-11.7	-86.6	0.6	7.8	116.8	-59.3
3192.0875	-13.2	-86.9	0.7	7.0	118.0	-60.5
3648.1000	-11.4	-84.9	0.8	7.4	115.7	-58.2
4104.1125	-13.0	-84.0	0.8	8.1	114.2	-56.7
4560.1250	-16.4	-87.8	0.9	8.9	117.2	-59.7

Table 7-27: Field Strength of Spurious Radiation; 459.0250 MHz

Fundamental Power Measured = 37.4 dBm; 5.6 W; Limit = 57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
918.0500	26.0	-48.2	0.3	-1.2	87.0	-29.6
1377.0750	20.0	-54.2	0.4	5.8	86.2	-28.7
1836.1000	12.6	-61.7	0.4	6.5	93.0	-35.5
2295.1250	-2.3	-77.3	0.5	7.3	107.9	-50.4
2754.1500	-6.5	-80.4	0.6	7.8	110.6	-53.1
3213.1750	-11.4	-85.1	0.7	7.1	116.2	-58.7
3672.2000	-11.4	-84.9	0.8	7.3	115.8	-58.3
4131.2250	-11.4	-82.4	0.8	8.2	112.5	-55.0
4590.2500	11.4	-60.0	0.9	8.9	89.4	-31.9

Table 7-28: Field Strength of Spurious Radiation; 459.9750 MHz

Fundamental Power Measured = 37.5 dBm; 5.6 W; Limit = 57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
919.9500	30.2	-45.2	0.3	-1.2	84.2	-26.7
1379.9250	17.9	-56.2	0.4	5.8	88.2	-30.8
1839.9000	12.8	-61.5	0.4	6.5	92.9	-35.4
2299.8750	-3.2	-77.3	0.5	7.3	108.0	-50.5
2759.8500	-8.5	-83.3	0.6	7.8	113.6	-56.1
3219.8250	-11.2	-84.9	0.7	7.1	116.1	-58.6
3679.8000	-13.0	-86.5	0.8	7.3	117.5	-60.0
4139.7750	-16.6	-87.6	0.8	8.2	117.7	-60.3
4599.7500	-15.4	-86.8	0.9	8.9	116.3	-58.8

Table 7-29: Field Strength of Spurious Radiation; 469.9875 MHz

Fundamental Power Measured = 37.5 dBm; 5.7 W; Limit = 57.6 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
939.9750	24.5	-49.5	0.3	-1.0	88.3	-30.8
1409.9625	18.4	-57.1	0.4	6.0	88.9	-31.4
1879.9500	3.1	-72.1	0.5	6.3	103.7	-46.1
2349.9375	-2.0	-76.1	0.5	7.3	106.8	-49.2
2819.9250	-9.7	-84.5	0.6	7.9	114.8	-57.2
3289.9125	16.7	-58.0	0.7	7.1	89.1	-31.5
3759.9000	-14.2	-87.7	0.8	7.0	118.9	-61.4
4229.8875	-17.6	-89.0	0.9	8.6	118.8	-61.2
4699.8750	-18.8	-90.6	0.9	9.0	120.0	-62.5

Table 7-30: Field Strength of Spurious Radiation; 511.9875 MHz

Fundamental Power Measured = 37.2 dBm; 5.3 W; Limit = 57.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1023.9750	26.6	-49.3	0.3	4.4	82.4	-25.1
1535.9625	13.8	-60.1	0.4	6.5	91.2	-33.9
2047.9500	-1.6	-75.8	0.5	6.6	106.9	-49.7
2559.9375	11.4	-63.5	0.6	7.4	93.9	-36.7
3071.9250	-14.5	-88.3	0.7	7.2	119.0	-61.7
3583.9125	-12.4	-86.0	0.8	7.6	116.3	-59.1
4095.9000	-14.8	-85.8	0.8	8.0	115.8	-58.6
4607.8875	-17.2	-88.9	0.9	8.9	118.1	-60.9
5119.8750	-13.0	-84.6	1.0	8.7	114.1	-56.9

Table 7-31: Field Strength of Spurious Radiation; 521.9875 MHz

Fundamental Power Measured = 37.2 dBm; 5.2 W; Limit = 57.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1043.9750	17.1	-57.3	0.3	4.5	90.4	-33.2
1565.9625	14.4	-59.8	0.4	6.7	90.7	-33.6
2087.9500	-2.7	-76.9	0.5	6.4	108.2	-51.0
2609.9375	-4.3	-78.3	0.6	7.5	108.6	-51.4
3131.9250	-9.8	-83.6	0.7	7.1	114.4	-57.2
3653.9125	-11.5	-85.0	0.8	7.4	115.6	-58.5
4175.9000	-14.4	-85.7	0.9	8.4	115.4	-58.3
4697.8875	-14.4	-86.2	0.9	9.0	115.3	-58.2
5219.8750	-14.1	-86.1	1.0	8.6	115.7	-58.5

Table 7-32: Field Strength of Spurious Radiation; 763.0000 MHz

Fundamental Power Measured = 34.3 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1526.0000	16.2	-58.6	0.4	6.5	86.8	-32.5
2289.0000	2.3	-71.8	0.5	7.3	99.3	-45.0
3052.0000	-8.7	-82.5	0.7	7.2	110.2	-55.9
3815.0000	-13.1	-86.6	0.8	7.0	114.7	-60.4
4578.0000	-13.0	-84.7	0.9	8.9	111.0	-56.7
5341.0000	-16.9	-88.3	1.0	8.6	115.0	-60.7
6104.0000	-10.0	-81.0	1.2	9.2	107.2	-52.9
6867.0000	-18.1	-88.0	1.3	9.5	114.1	-59.8
7630.0000	-19.2	-88.1	1.4	9.1	114.6	-60.3

Table 7-33: Field Strength of Spurious Radiation; 768.0125 MHz

Fundamental Power Measured = 34.3 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1536.0250	14.0	-60.9	0.4	6.5	89.0	-34.7
2304.0375	6.4	-67.7	0.5	7.3	95.2	-40.9
3072.0500	-2.4	-76.2	0.7	7.2	104.0	-49.7
3840.0625	-13.1	-86.6	0.8	7.0	114.7	-60.4
4608.0750	-15.9	-87.6	0.9	8.9	113.9	-59.6
5376.0875	-18.0	-89.4	1.0	8.5	116.2	-61.9
6144.1000	-10.6	-81.6	1.2	9.2	107.9	-53.6
6912.1125	-20.4	-90.3	1.3	9.5	116.4	-62.1
7680.1250	-19.1	-87.9	1.4	9.2	114.4	-60.1

Table 7-34: Field Strength of Spurious Radiation; 769.0125 MHz

Fundamental Power Measured = 34.4 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1538.0250	17.2	-57.7	0.4	6.6	85.9	-31.6
2307.0375	5.1	-69.9	0.5	7.3	97.5	-43.2
3076.0500	-11.9	-85.7	0.7	7.1	113.6	-59.3
3845.0625	-12.7	-86.2	0.8	7.0	114.4	-60.1
4614.0750	-15.0	-86.7	0.9	8.9	113.1	-58.8
5383.0875	-18.7	-90.1	1.0	8.5	117.0	-62.7
6152.1000	-11.2	-82.2	1.2	9.2	108.6	-54.3
6921.1125	-19.3	-89.4	1.3	9.5	115.6	-61.3
7690.1250	-19.7	-89.0	1.4	9.2	115.6	-61.3

Table 7-35: Field Strength of Spurious Radiation; 772.0000 MHz

Fundamental Power Measured = 34.4 dBm; 2.8 W; Limit = 54.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1544.0000	16.4	-57.6	0.4	6.6	85.8	-31.3
2316.0000	11.1	-63.9	0.5	7.3	91.5	-37.0
3088.0000	-12.7	-86.5	0.7	7.1	114.4	-60.0
3860.0000	-12.9	-87.4	0.8	7.0	115.6	-61.1
4632.0000	-13.9	-85.6	0.9	8.9	112.0	-57.6
5404.0000	-14.6	-86.0	1.0	8.5	112.9	-58.4
6176.0000	-10.9	-81.8	1.2	9.1	108.3	-53.8
6948.0000	-20.3	-90.4	1.3	9.5	116.6	-62.1
7720.0000	-19.2	-88.0	1.4	9.3	114.5	-60.1

Table 7-36: Field Strength of Spurious Radiation; 774.9875 MHz

Fundamental Power Measured = 34.5 dBm; 2.8 W; Limit = 54.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1549.9750	18.0	-56.9	0.4	6.6	85.2	-30.7
2324.9625	1.3	-73.7	0.5	7.3	101.4	-46.9
3099.9500	-12.2	-86.0	0.7	7.1	114.1	-59.6
3874.9375	-14.5	-88.0	0.8	7.0	116.3	-61.8
4649.9250	-15.6	-87.3	0.9	8.9	113.8	-59.4
5424.9125	-18.0	-89.3	1.1	8.5	116.4	-61.9
6199.9000	-11.0	-81.9	1.2	9.1	108.5	-54.0
6974.8875	-19.6	-89.4	1.3	9.5	115.7	-61.2
7749.8750	-18.6	-87.4	1.4	9.3	114.0	-59.5

Table 7-37: Field Strength of Spurious Radiation; 775.9875 MHz

Fundamental Power Measured = 34.5 dBm; 2.8 W; Limit = 54.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1551.9750	17.5	-57.4	0.4	6.6	85.7	-31.2
2327.9625	1.6	-73.4	0.5	7.3	101.1	-46.6
3103.9500	-11.7	-86.4	0.7	7.1	114.5	-60.0
3879.9375	-16.0	-89.4	0.8	7.0	117.8	-63.3
4655.9250	-17.6	-89.3	0.9	8.9	115.8	-61.4
5431.9125	-15.2	-86.5	1.1	8.5	113.6	-59.1
6207.9000	-8.3	-79.2	1.2	9.1	105.8	-51.3
6983.8875	-19.6	-89.4	1.3	9.5	115.7	-61.2
7759.8750	-18.5	-87.3	1.4	9.3	113.9	-59.4

Table 7-38: Field Strength of Spurious Radiation; 793.0125 MHz

Fundamental Power Measured = 34.4 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1586.0250	14.2	-60.7	0.4	6.7	88.8	-34.4
2379.0375	5.2	-69.8	0.5	7.3	97.4	-43.1
3172.0500	-10.9	-84.6	0.7	7.1	112.7	-58.4
3965.0625	-11.8	-86.2	0.8	7.3	114.1	-59.8
4758.0750	-16.4	-87.9	0.9	8.9	114.3	-60.0
5551.0875	-19.5	-90.7	1.1	8.6	117.5	-63.2
6344.1000	-11.4	-82.2	1.2	9.4	108.4	-54.1
7137.1125	-19.0	-88.9	1.3	9.4	115.2	-60.9
7930.1250	-18.7	-87.3	1.4	9.3	113.9	-59.6

Table 7-39: Field Strength of Spurious Radiation; 798.0125 MHz

Fundamental Power Measured = 34.3 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1596.0250	13.9	-61.0	0.4	6.8	89.0	-34.7
2394.0375	6.3	-68.7	0.5	7.3	96.2	-41.9
3192.0500	-4.6	-78.3	0.7	7.0	106.3	-52.0
3990.0625	-8.6	-82.0	0.8	7.5	109.7	-55.4
4788.0750	-16.5	-88.0	0.9	8.9	114.4	-60.1
5586.0875	-17.8	-89.4	1.1	8.7	116.1	-61.8
6384.1000	-10.9	-81.6	1.2	9.5	107.6	-53.3
7182.1125	-18.3	-87.9	1.3	9.2	114.3	-60.0
7980.1250	-18.1	-86.7	1.4	9.2	113.2	-58.9

Table 7-40: Field Strength of Spurious Radiation; 799.0125 MHz

Fundamental Power Measured = 34.3 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1598.0250	13.4	-61.6	0.4	6.8	89.5	-35.2
2397.0375	7.6	-67.4	0.5	7.3	94.9	-40.6
3196.0500	-9.9	-83.6	0.7	7.0	111.6	-57.3
3995.0625	-13.8	-87.2	0.8	7.5	114.8	-60.5
4794.0750	-15.6	-87.4	1.0	8.9	113.8	-59.5
5593.0875	-18.2	-89.4	1.1	8.7	116.0	-61.7
6392.1000	-11.5	-82.2	1.2	9.5	108.2	-53.9
7191.1125	-20.4	-90.0	1.3	9.2	116.4	-62.1
7990.1250	-18.1	-86.7	1.4	9.2	113.2	-58.9

Table 7-41: Field Strength of Spurious Radiation; 802.0125 MHz

Fundamental Power Measured = 34.3 dBm; 2.7 W; Limit = 54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1604.0250	13.9	-61.1	0.4	6.8	89.0	-34.7
2406.0375	4.6	-70.4	0.6	-2.1	107.4	-53.1
3208.0500	6.0	-68.7	0.7	7.0	96.6	-42.3
4010.0625	-10.3	-81.2	0.8	7.6	108.8	-54.5
4812.0750	-4.1	-76.0	1.0	8.9	102.3	-48.0
5614.0875	-17.3	-88.9	1.1	8.8	115.5	-61.2
6416.1000	-12.2	-82.9	1.2	9.6	108.8	-54.5
7218.1125	-21.7	-91.3	1.3	9.1	117.8	-63.5
8020.1250	-19.6	-87.4	1.4	9.2	113.9	-59.6

Table 7-42: Field Strength of Spurious Radiation; 804.9875 MHz

Fundamental Power Measured = 34.2 dBm; 2.6 W; Limit = 54.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
2414.9625	5.9	-69.1	0.6	-2.1	106.0	-51.8
3219.9500	-12.2	-85.9	0.7	7.1	113.8	-59.6
4024.9375	-16.2	-87.4	0.8	7.6	114.8	-60.7
4829.9250	-16.4	-88.0	1.0	8.9	114.3	-60.1
5634.9125	-16.1	-87.2	1.1	8.8	113.7	-59.6
6439.9000	-13.6	-83.9	1.2	9.6	109.7	-55.6
7244.8875	-20.1	-89.7	1.3	9.0	116.2	-62.1
8049.8750	-20.0	-86.5	1.5	9.2	113.0	-58.8
2414.9625	5.9	-69.1	0.6	-2.1	106.0	-51.8

Table 7-43: Field Strength of Spurious Radiation; 805.9875 MHz

Fundamental Power Measured = 34.2 dBm; 2.6 W; Limit = 54.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1611.9750	13.3	-61.2	0.4	6.7	89.0	-34.9
2417.9625	4.9	-69.2	0.6	-2.1	106.0	-51.9
3223.9500	-11.6	-85.3	0.7	7.1	113.2	-59.0
4029.9375	-16.5	-87.7	0.8	7.7	115.1	-60.9
4835.9250	-17.0	-88.6	1.0	8.9	114.9	-60.7
5641.9125	-17.5	-88.6	1.1	8.8	115.1	-60.9
6447.9000	-13.0	-83.3	1.2	9.7	109.1	-54.9
7253.8875	-21.5	-91.1	1.3	8.9	117.7	-63.5
8059.8750	-19.5	-85.6	1.5	9.2	112.1	-57.9

Table 7-44: Field Strength of Spurious Radiation; 806.0125 MHz

Fundamental Power Measured = 35.2 dBm; 3.3 W; Limit = 55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1612.0250	15.3	-59.7	0.4	6.7	88.6	-33.4
2418.0375	8.4	-66.6	0.6	-2.1	104.5	-49.3
3224.0500	-13.1	-86.8	0.7	7.1	115.7	-60.5
4030.0625	-13.7	-84.9	0.8	7.7	113.3	-58.1
4836.0750	-10.8	-82.7	1.0	8.9	110.0	-54.8
5642.0875	-16.7	-87.8	1.1	8.8	115.3	-60.1
6448.1000	-6.3	-76.6	1.2	9.7	103.4	-48.2
7254.1125	-16.9	-86.4	1.3	8.9	114.1	-58.9
8060.1250	-18.3	-84.4	1.5	9.2	111.9	-56.7

Table 7-45: Field Strength of Spurious Radiation; 815.0000 MHz

Fundamental Power Measured = 35.2 dBm; 3.3 W; Limit = 55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1630.0000	14.8	-60.3	0.4	6.7	89.2	-34.0
2445.0000	9.6	-65.4	0.6	-2.1	103.3	-48.1
3260.0000	-7.3	-81.0	0.7	7.1	109.8	-54.6
4075.0000	-6.7	-78.0	0.8	7.9	106.1	-50.9
4890.0000	4.4	-67.6	1.0	8.8	94.9	-39.7
5705.0000	-16.9	-88.0	1.1	9.0	115.3	-60.1
6520.0000	-0.8	-71.4	1.2	9.7	98.1	-42.9
7335.0000	12.7	-56.9	1.3	8.7	84.7	-29.5
8150.0000	-6.2	-68.6	1.5	9.3	96.0	-40.8

Table 7-46: Field Strength of Spurious Radiation; 823.9875 MHz

Fundamental Power Measured = 35.2 dBm; 3.3 W; Limit = 55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1647.9750	14.5	-60.6	0.4	6.6	89.6	-34.4
2471.9625	6.0	-69.0	0.6	-2.1	106.9	-51.7
3295.9500	6.4	-68.3	0.7	7.1	97.1	-41.9
4119.9375	-8.3	-79.6	0.8	8.1	107.5	-52.3
4943.9250	9.2	-62.6	1.0	8.8	89.9	-34.7
5767.9125	-15.6	-86.6	1.1	9.3	113.7	-58.5
6591.9000	-3.7	-74.2	1.2	9.7	101.0	-45.8
7415.8875	7.3	-62.0	1.4	8.7	89.8	-34.6
8239.8750	-6.3	-66.7	1.5	9.3	94.1	-38.9

Table 7-47: Field Strength of Spurious Radiation; 824.9875 MHz

Fundamental Power Measured = 35.2 dBm; 3.3 W; Limit = 55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1649.9750	12.5	-62.6	0.4	6.6	91.6	-36.5
2474.9625	7.2	-66.8	0.6	-2.1	104.7	-49.5
3299.9500	-5.3	-79.0	0.7	7.1	107.8	-52.6
4124.9375	-7.4	-78.7	0.8	8.2	106.6	-51.4
4949.9250	7.4	-64.4	1.0	8.8	91.7	-36.5
5774.9125	-17.6	-89.0	1.1	9.3	116.0	-60.8
6599.9000	-4.3	-74.8	1.2	9.7	101.6	-46.4
7424.8875	-2.3	-71.6	1.4	8.7	99.4	-44.2
8249.8750	-11.7	-72.1	1.5	9.3	99.5	-44.3

Table 7-48: Field Strength of Spurious Radiation; 851.0125 MHz

Fundamental Power Measured = 35.4 dBm; 3.5 W; Limit = 55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1702.0250	12.2	-63.0	0.4	6.4	92.4	-37.0
2553.0375	6.7	-68.2	0.6	7.4	96.8	-41.4
3404.0500	-6.5	-80.1	0.7	7.6	108.7	-53.3
4255.0625	-15.2	-86.6	0.9	8.6	114.2	-58.8
5106.0750	-5.3	-77.0	1.0	8.7	104.6	-49.2
5957.0875	-16.7	-87.5	1.1	9.6	114.4	-59.0
6808.1000	-9.2	-79.4	1.3	9.5	106.6	-51.2
7659.1125	-15.6	-84.4	1.4	9.2	112.0	-56.6
8510.1250	-17.0	-78.1	1.5	9.4	105.6	-50.2

Table 7-49: Field Strength of Spurious Radiation; 860.0000 MHz

Fundamental Power Measured = 35.5 dBm; 3.5 W; Limit = 55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1720.0000	9.7	-65.5	0.4	6.4	95.0	-39.5
2580.0000	9.1	-65.8	0.6	7.4	94.5	-39.0
3440.0000	-6.6	-80.2	0.7	7.6	108.9	-53.4
4300.0000	-11.5	-82.9	0.9	8.7	110.6	-55.1
5160.0000	0.8	-71.3	1.0	8.6	99.1	-43.7
6020.0000	-11.9	-83.0	1.1	9.4	110.2	-54.8
6880.0000	-14.2	-84.4	1.3	9.5	111.7	-56.2
7740.0000	-16.0	-84.8	1.4	9.3	112.4	-57.0
8600.0000	-17.8	-79.1	1.5	9.6	106.6	-51.2

Table 7-50: Field Strength of Spurious Radiation; 868.9875 MHz

Fundamental Power Measured = 35.4 dBm; 3.5 W; Limit = 55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1737.9750	9.5	-64.8	0.4	6.5	94.2	-38.7
2606.9625	2.0	-72.9	0.6	7.4	101.4	-46.0
3475.9500	-4.2	-77.8	0.7	7.6	106.4	-50.9
4344.9375	-1.4	-72.9	0.9	8.8	100.4	-45.0
5213.9250	9.5	-62.1	1.0	8.6	89.9	-34.4
6082.9125	-0.3	-71.4	1.2	9.3	98.6	-43.2
6951.9000	-5.5	-75.3	1.3	9.5	102.5	-47.1
7820.8875	-4.3	-73.0	1.4	9.3	100.5	-45.1
8689.8750	-18.4	-80.0	1.5	9.5	107.5	-52.0

Table 7-51: Field Strength of Spurious Radiation; 869.9875 MHz

Fundamental Power Measured = 35.4 dBm; 3.5 W; Limit = 55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1739.9750	9.0	-65.3	0.4	6.5	94.7	-39.2
2609.9625	2.9	-72.0	0.6	7.5	100.5	-45.1
3479.9500	-0.8	-74.4	0.7	7.6	103.0	-47.5
4349.9375	-1.4	-72.9	0.9	8.8	100.4	-45.0
5219.9250	8.5	-63.0	1.0	8.6	90.8	-35.4
6089.9125	4.4	-66.6	1.2	9.3	93.9	-38.5
6959.9000	-0.1	-70.2	1.3	9.5	97.3	-41.9
7829.8875	-4.6	-73.3	1.4	9.3	100.8	-45.4
8699.8750	-16.9	-78.5	1.6	9.4	106.0	-50.6

7.3.2 Digital/Receiver Radiated Emissions

Table 7-52: Digital/Receiver Radiated Emissions

Emission Frequency (MHz)	Analyzer Reading (dBµV)	Site Correction Factor (dB/m)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pass/ Fail
37.634	0.8	17.2	18.0	40.0	-22.0	Pass
38.244	0.9	16.8	17.7	40.0	-22.3	Pass
50.135	1.5	11.3	12.8	40.0	-27.2	Pass
51.006	2.5	11.1	13.6	40.0	-26.4	Pass
137.596	0.9	14.5	15.4	43.5	-28.1	Pass
487.500	-2.5	25.2	22.7	46.0	-23.3	Pass
585.000	1.0	27.2	28.2	46.0	-17.8	Pass
682.500	-2.8	29.7	26.9	46.0	-19.1	Pass
780.000	0.4	29.4	29.8	46.0	-16.2	Pass
975.000	-2.9	31.4	28.5	54.0	-25.5	Pass
1072.500	2.7	33.2	35.9	54.0	-18.1	Pass
1170.000	4.7	32.3	37.0	54.0	-17.0	Pass
1267.500	2.8	33.1	35.9	54.0	-18.1	Pass
1365.000	4.4	34.6	39.0	54.0	-15.0	Pass

Table 7-53: Test Equipment Used For Testing Field Strength of Spurious Radiation

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900878	Rhein Tech Laboratories	AM3-1197-0005	3 meter antenna mast, polarizing	OATS1	N/A
901729	Insulated Wire Inc.	KPS-1503-3150-KPR	SMK RF Cables 20'	NA	10/29/21
901242	Rhein Tech Laboratories	WRT-000-0003	Wood rotating table	N/A	N/A
901581	Rohde & Schwarz	FSU	Spectrum Analyzer	1166.1660.50	4/26/21
901582	Rohde & Schwarz	1167.0000.02	Signal Generator	101903	4/24/21
901669	ETS-Lindgren	3142E	Biconilog Antenna (30 MHz – 6000 MHz)	00166065	4/24/22
900321	EMCO	3161-03	Horn Antennas (4 – 8 GHz)	9508-1020	5/17/21
900323	EMCO	3160-07	Horn Antennas (8.2 – 12 GHz)	9605-1054	5/17/21
900772	EMCO	3161-02	Horn Antenna (2 - 4 GHz)	9804-1044	5/17/21
901128	Par Electronics	806-902 (25W)	UHF Notch Filter	N/A	9/14/21
901129	Par Electronics	188-174 (25W)	VHF Notch Filters	N/A	9/14/21
901135	Par Electronics	400-512 (25W)	UHF Notch Filter	N/A	9/14/21

Test Personnel:

Daniel W. Baltzell		February 28, 2021
Test Engineer	Signature	Date of Tests

8 FCC Part 2.1049(c)(1): Occupied Bandwidth; Part 90.210 Authorized Bandwidth; Part 74.462: Authorized Bandwidth and Emissions; Part 80.205: Bandwidths; §80.211: Emission Limitations; ISED RSS-119 5.5: Channel Bandwidth, Authorized Bandwidth, Occupied Bandwidth and Spectrum Masks

8.1 Test Procedure

ANSI C63.26 5.4

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

Applicable FCC Emission Masks

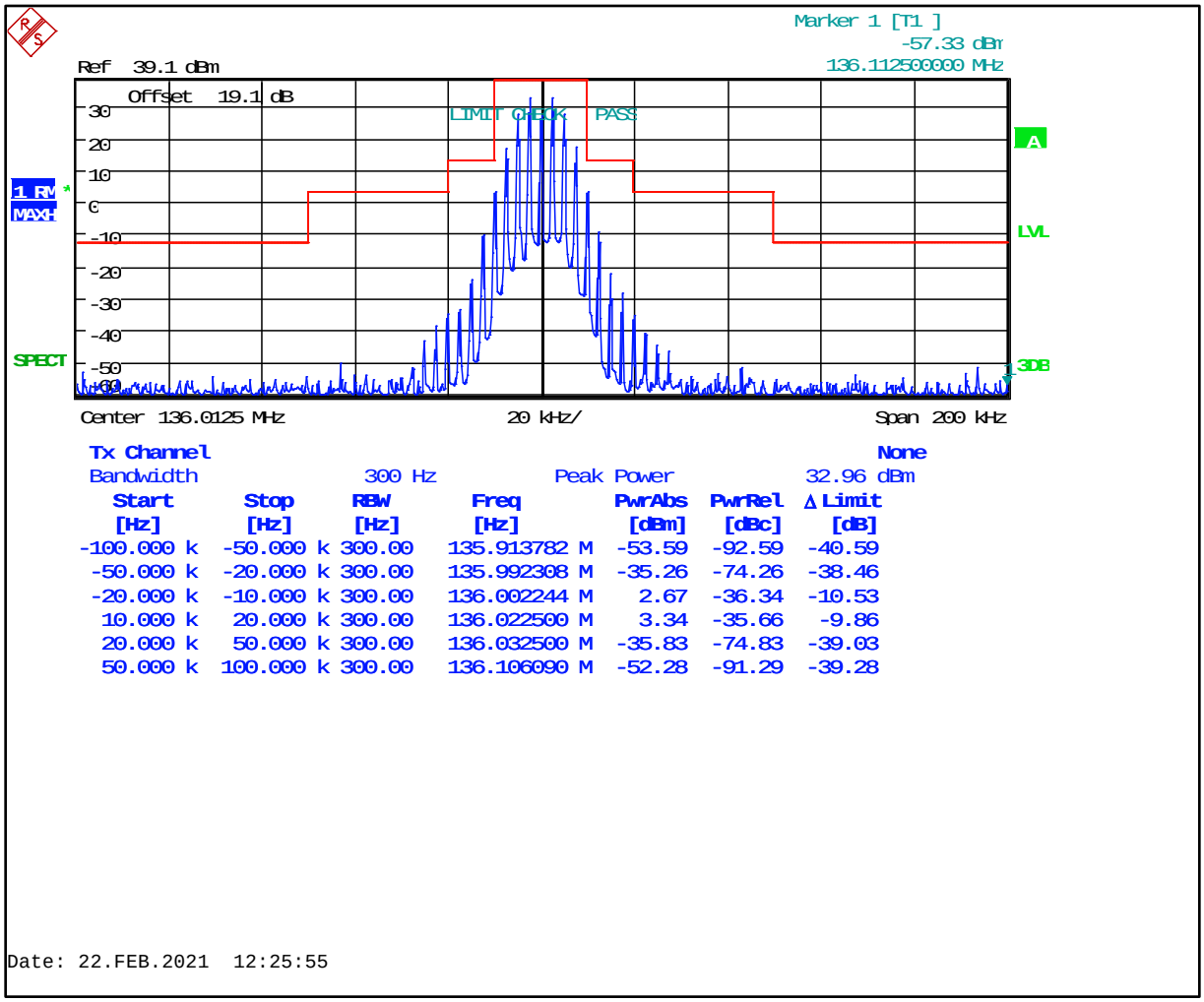
Frequency Band (MHz)	Mask for Equipment with Audio Low Pass Filter	Mask for Equipment Without Audio Low Pass Filter
Below 25 [1]	A or B	A or C
25–50.....	B	C
72–76.....	B	C
150–174 [2]	B, D, or E	C, D, or E
150 Paging-only	B	C
220–222	F	F
421–512 [2]	B, D, or E	C, D, or E
450 Paging-only	B	G
806–809/851–854	B	H
809–824/854–869 [3]	B	G
896–901/935–940	I	J
902–928	K	K
929–930	B	G
4940–4990 MHz ……	L or M	L or M
5850–5925 [4]		
All other bands	B	C

1 Equipment using single sideband J3E emission must meet the requirements of Emission Mask A. Equipment using other emissions must meet the requirements of Emission Mask B or C, as applicable.
2 Equipment designed to operate with a 25 kHz channel bandwidth must meet the requirements of Emission Mask B or C, as applicable. Equipment designed to operate with a 12.5 kHz channel bandwidth must meet the requirements of Emission Mask D, and equipment designed to operate with a 6.25 kHz channel bandwidth must meet the requirements of Emission Mask E.
3 Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of § 90.691.
4 DSRCS Roadside Units equipment in the 5850–5925 MHz band is governed under subpart M of this part.

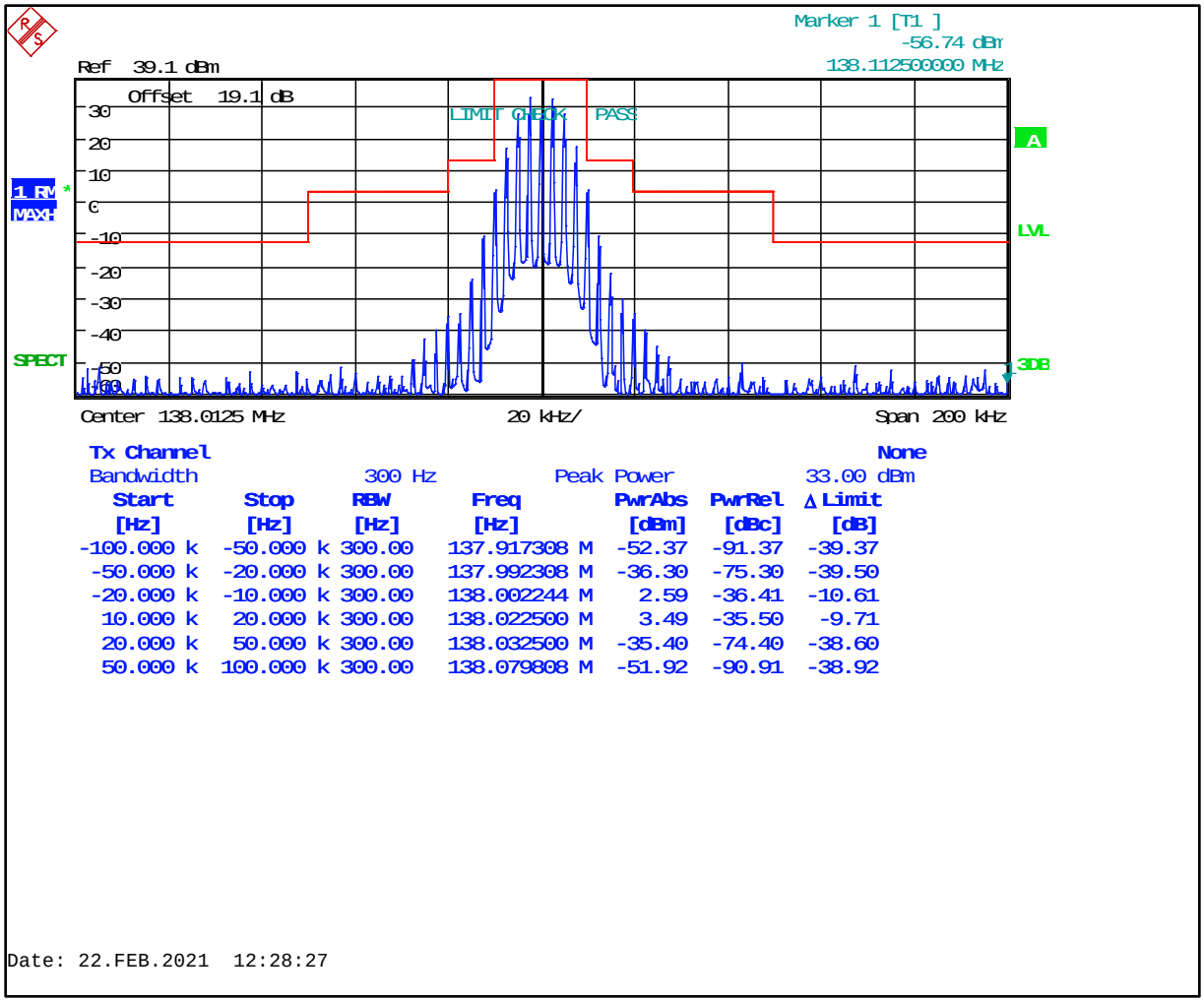
UHF band data is for engineering use only, and not applicable to the current equipment authorization application.

8.2 Test Data

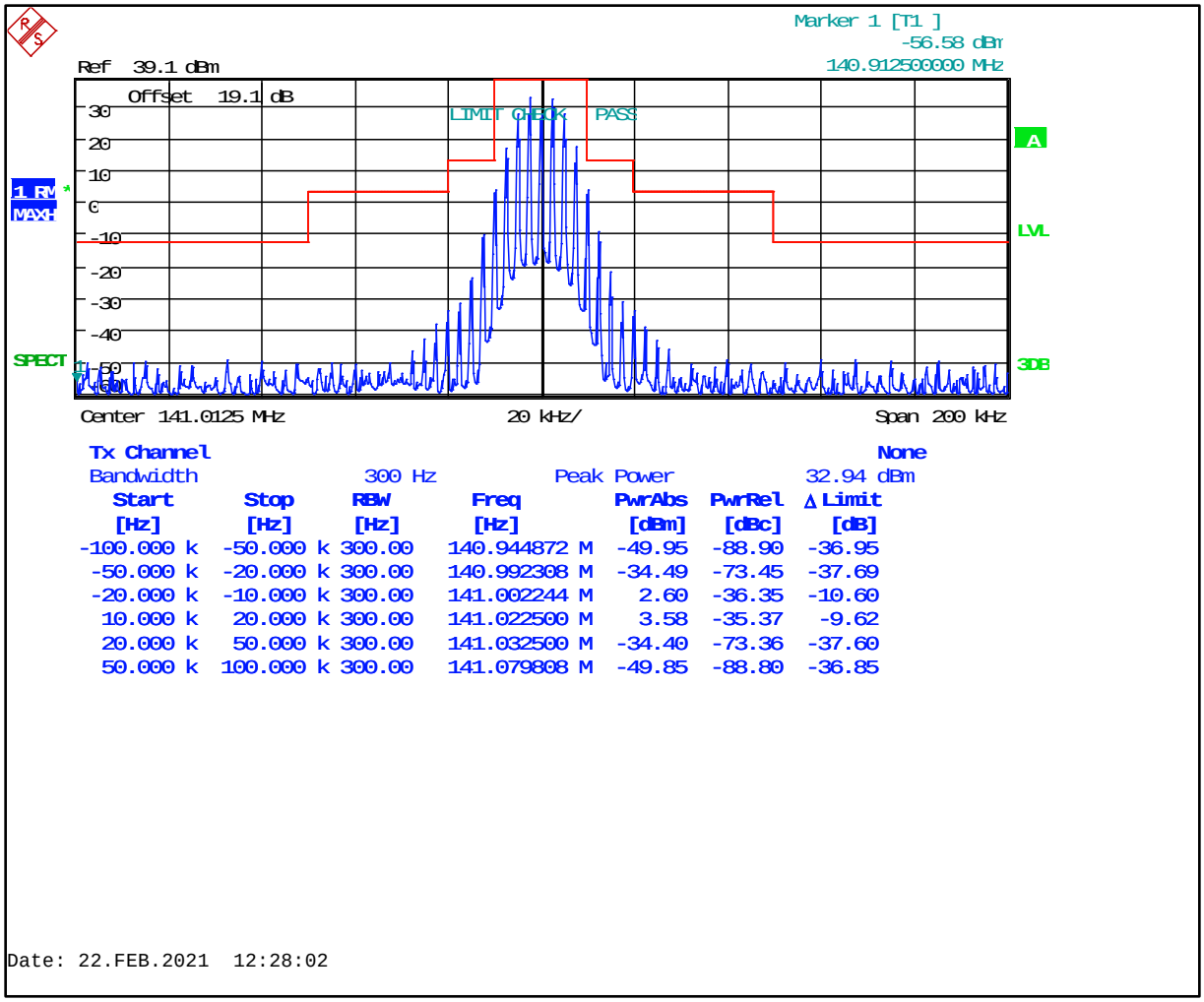
Plot 8-1: Occupied Bandwidth – 136.0125 MHz; Wideband Analog; Mask B



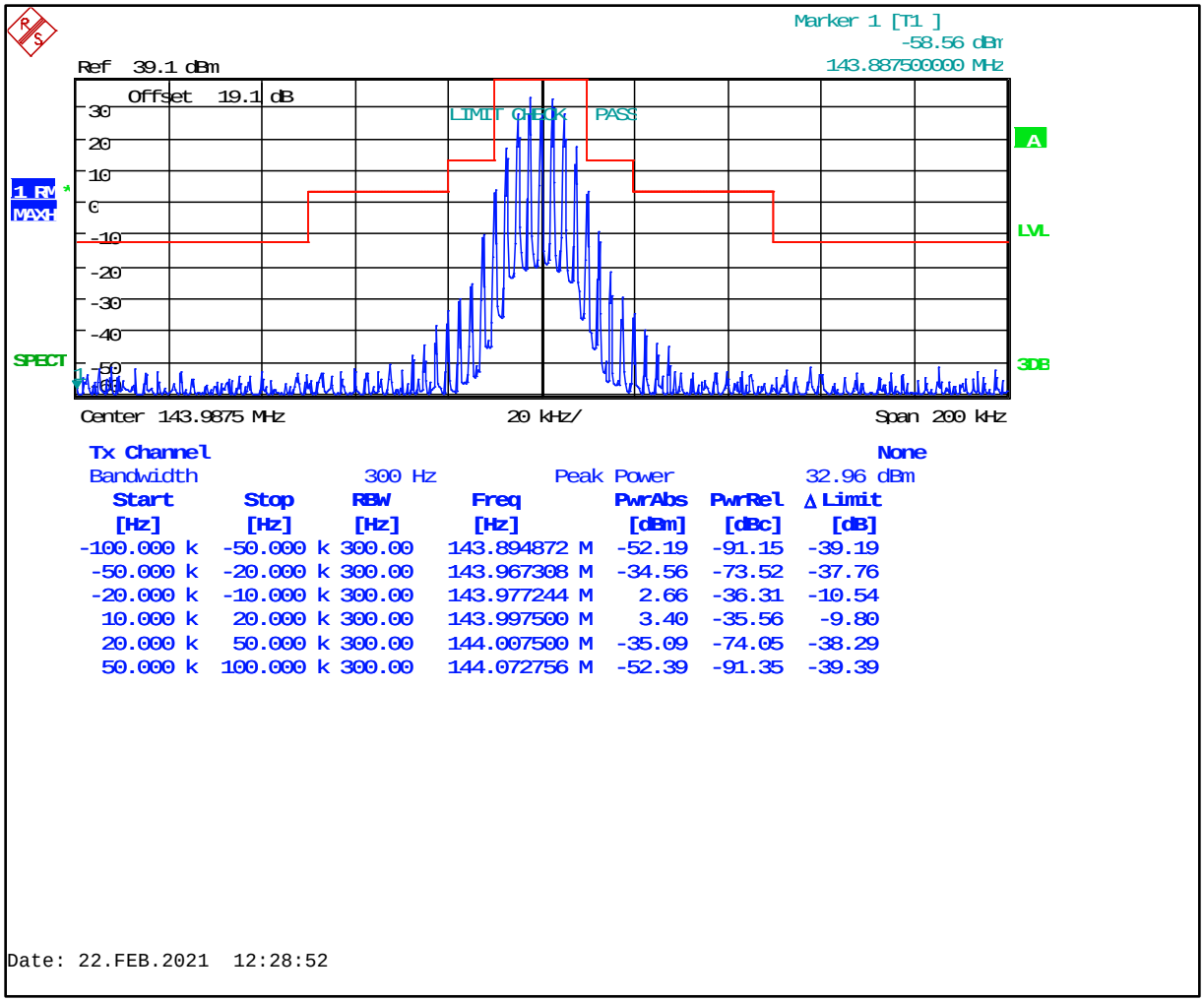
Plot 8-2: Occupied Bandwidth – 138.0125 MHz; Wideband Analog; Mask B



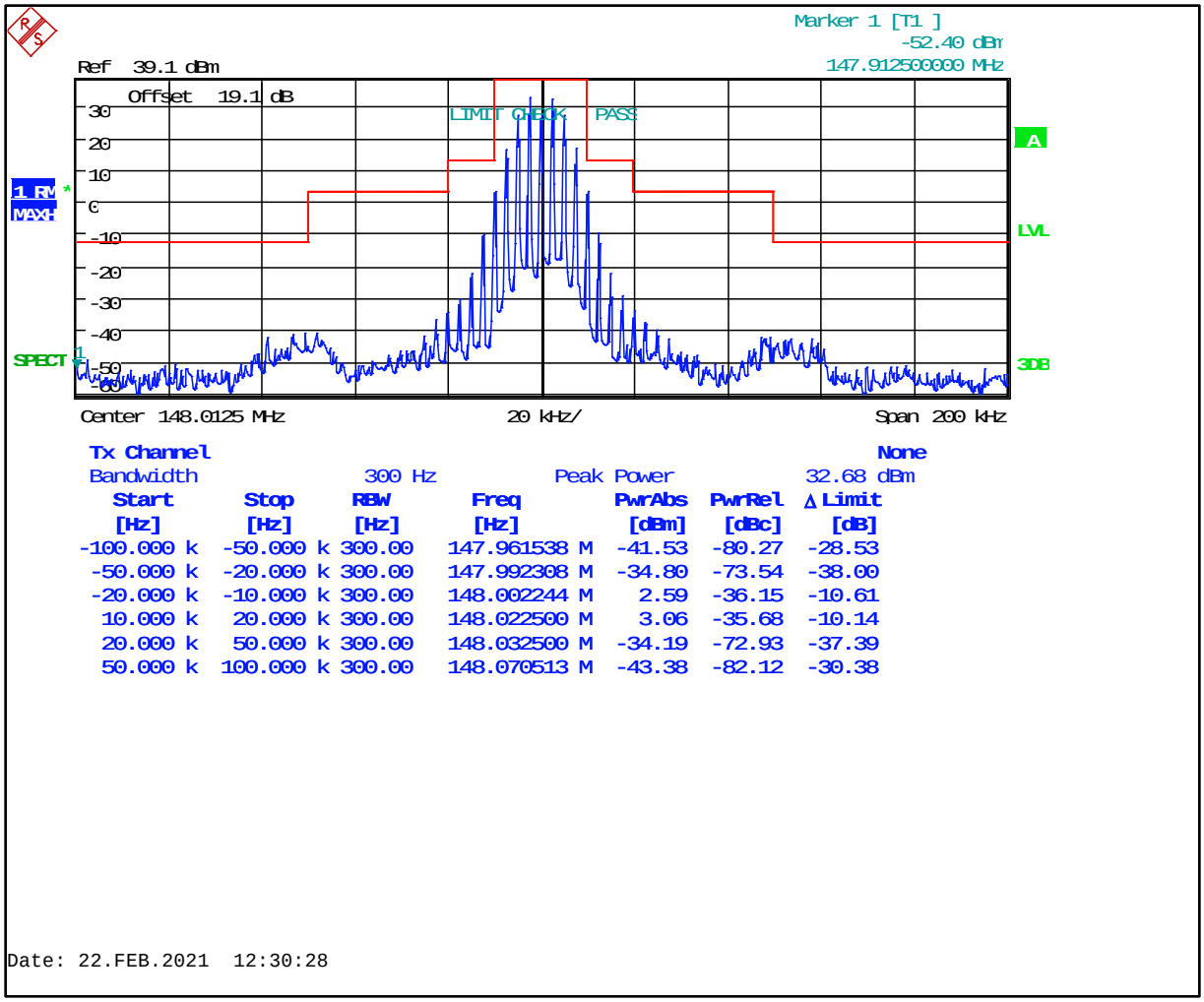
Plot 8-3: Occupied Bandwidth – 141.0125 MHz; Wideband Analog; Mask B



Plot 8-4: Occupied Bandwidth – 143.9875 MHz; Wideband Analog; Mask B



Plot 8-5: Occupied Bandwidth – 148.0125 MHz; Wideband Analog; Mask B



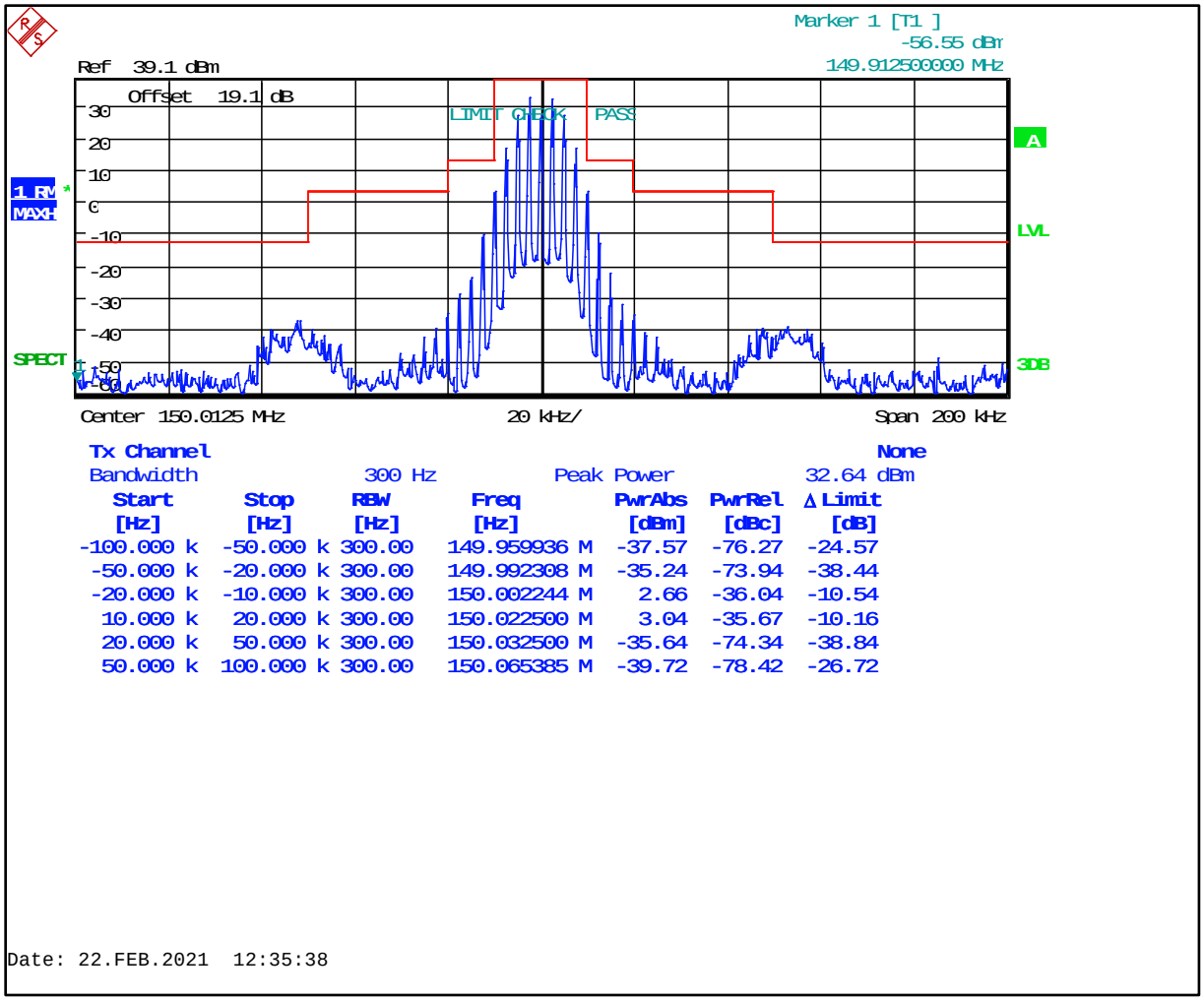
Tx Channel **None**

Bandwidth 300 Hz Peak Power 32.68 dBm

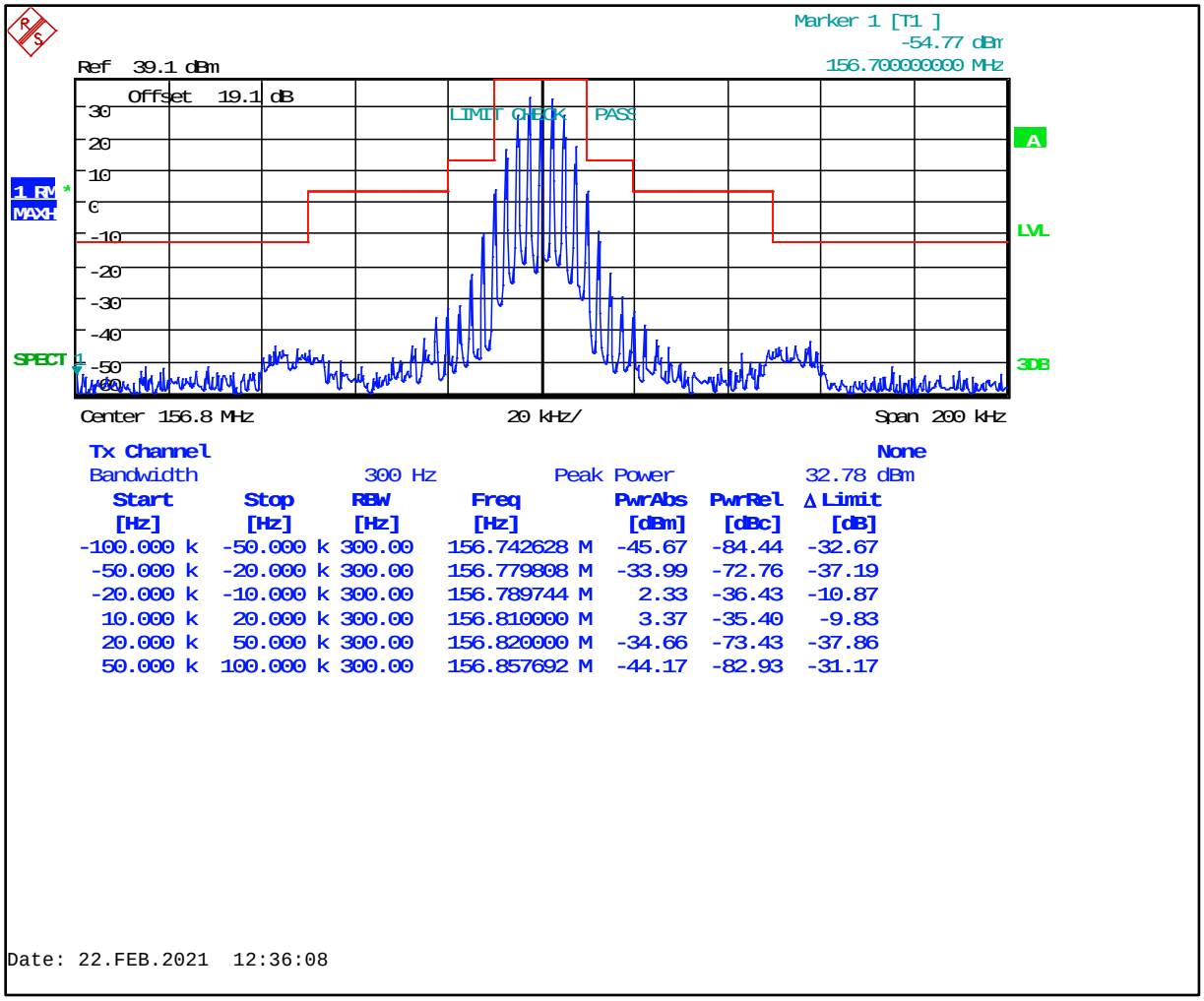
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	PwrRel [dBc]	Δ Limit [dB]
-100.000 k	-50.000 k	300.00	147.961538 M	-41.53	-80.27	-28.53
-50.000 k	-20.000 k	300.00	147.992308 M	-34.80	-73.54	-38.00
-20.000 k	-10.000 k	300.00	148.002244 M	2.59	-36.15	-10.61
10.000 k	20.000 k	300.00	148.022500 M	3.06	-35.68	-10.14
20.000 k	50.000 k	300.00	148.032500 M	-34.19	-72.93	-37.39
50.000 k	100.000 k	300.00	148.070513 M	-43.38	-82.12	-30.38

Date: 22.FEB.2021 12:30:28

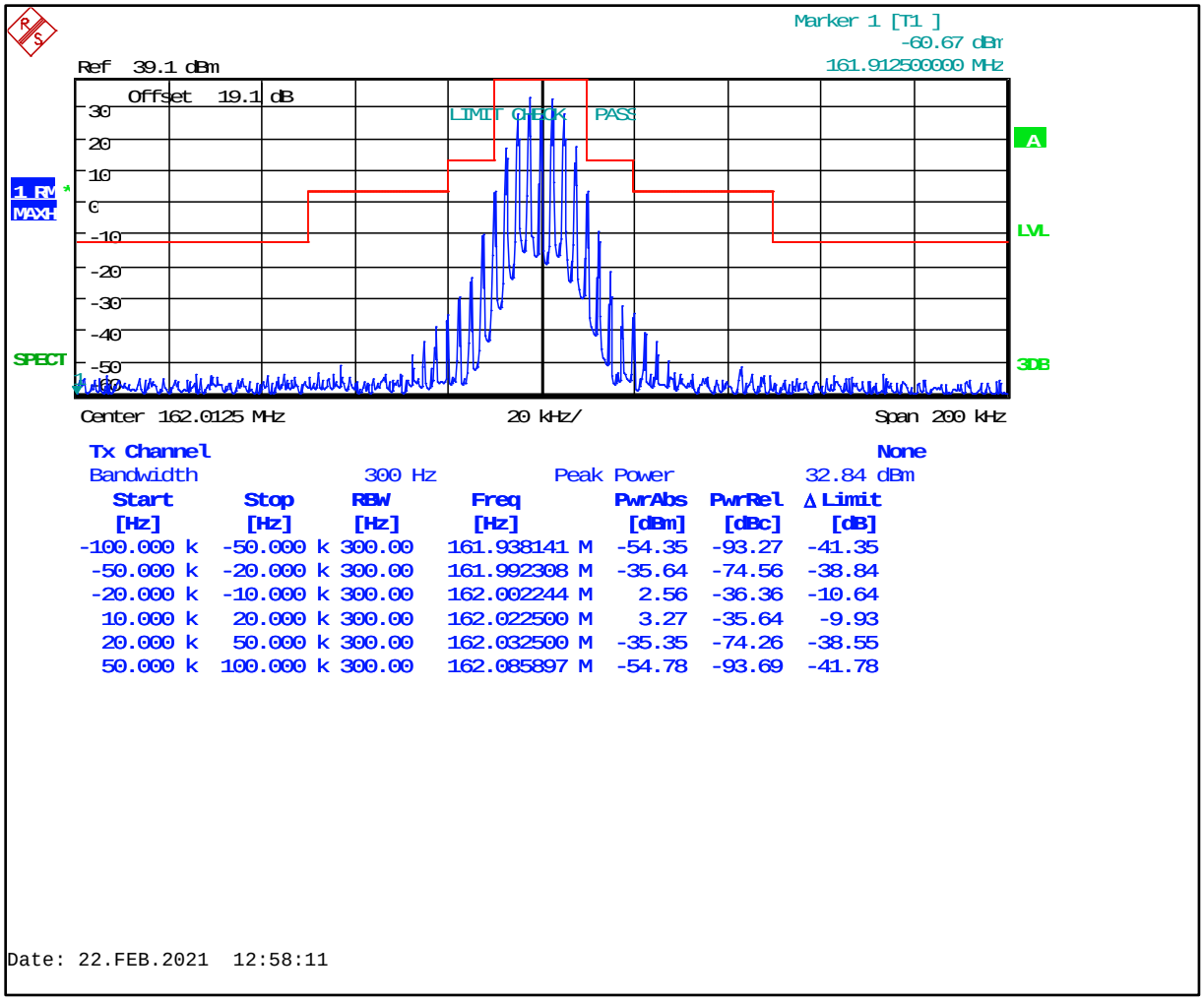
Plot 8-6: Occupied Bandwidth – 150.0125 MHz; Wideband Analog; Mask B



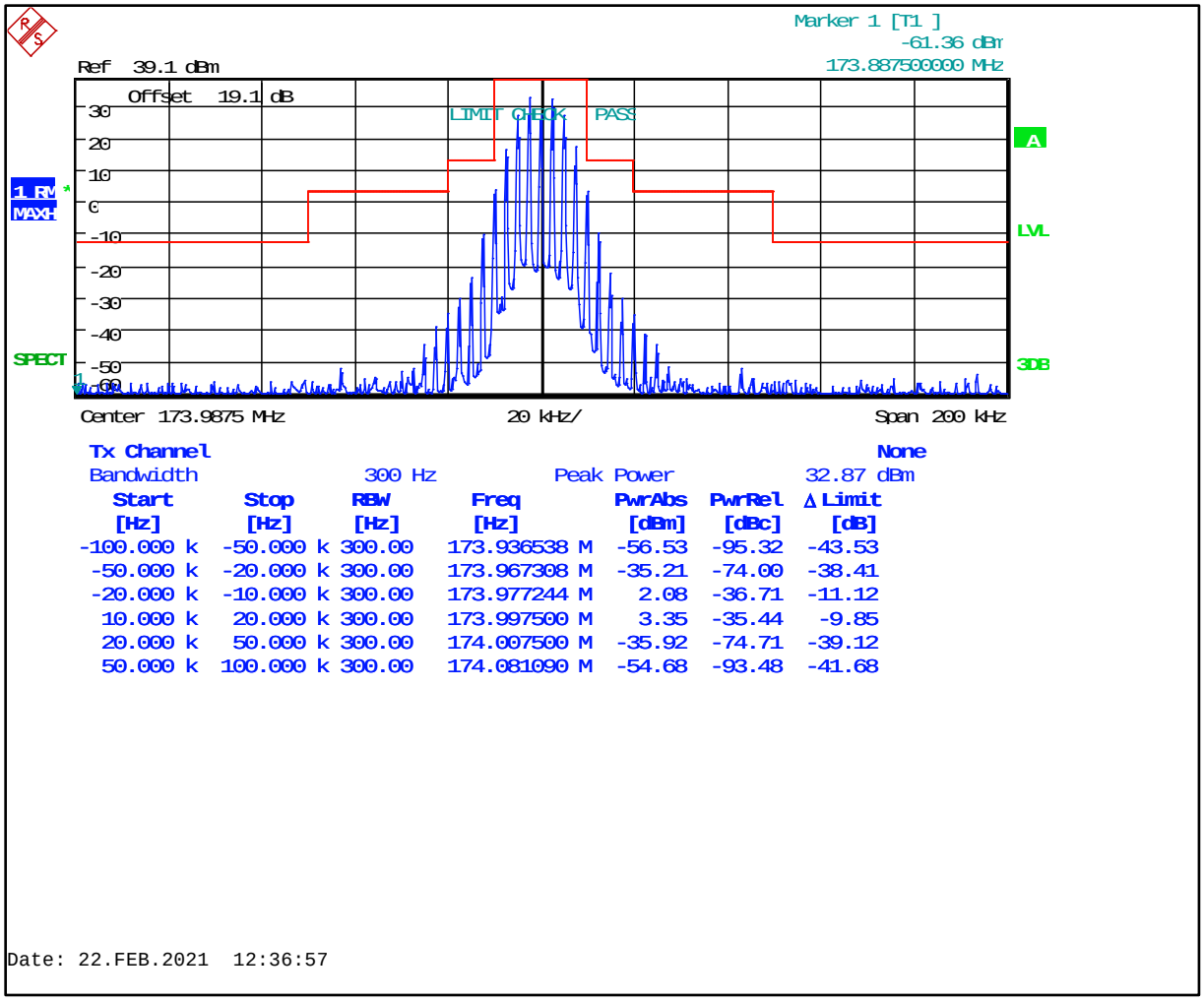
Plot 8-7: Occupied Bandwidth – 156.8000 MHz; Wideband Analog; Mask B



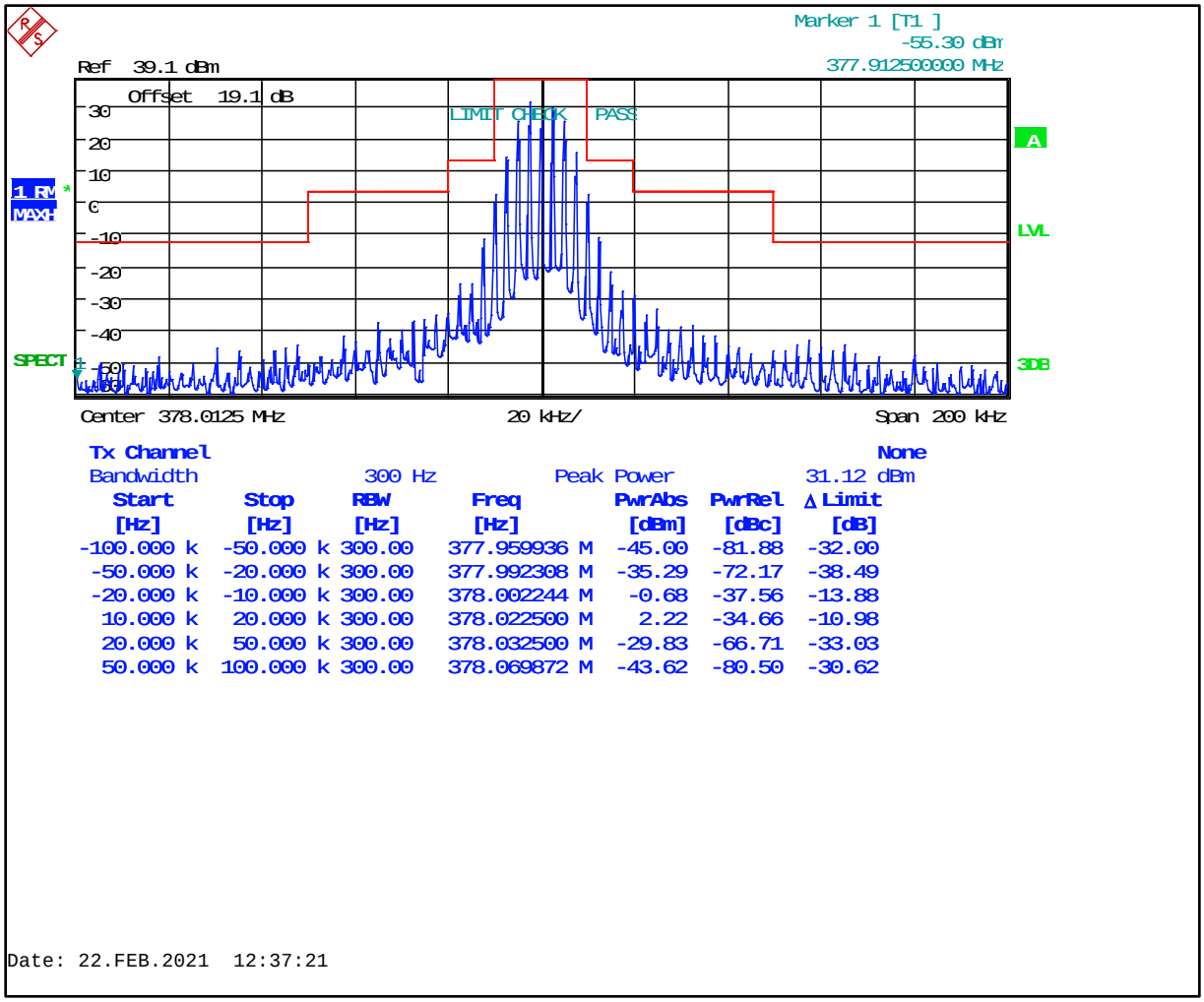
Plot 8-8: Occupied Bandwidth – 162.0125 MHz; Wideband Analog; Mask B



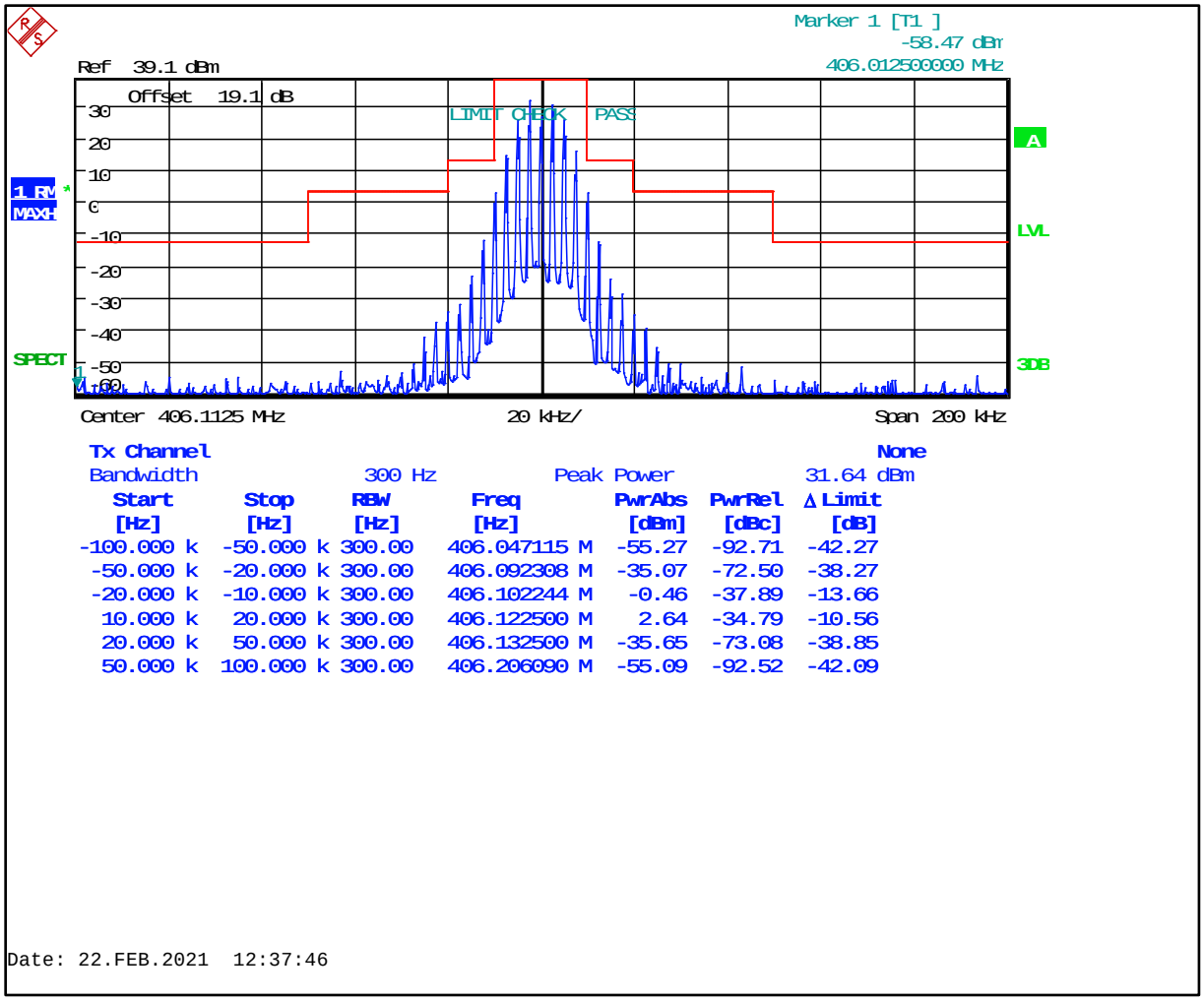
Plot 8-9: Occupied Bandwidth – 173.9875 MHz; Wideband Analog; Mask B



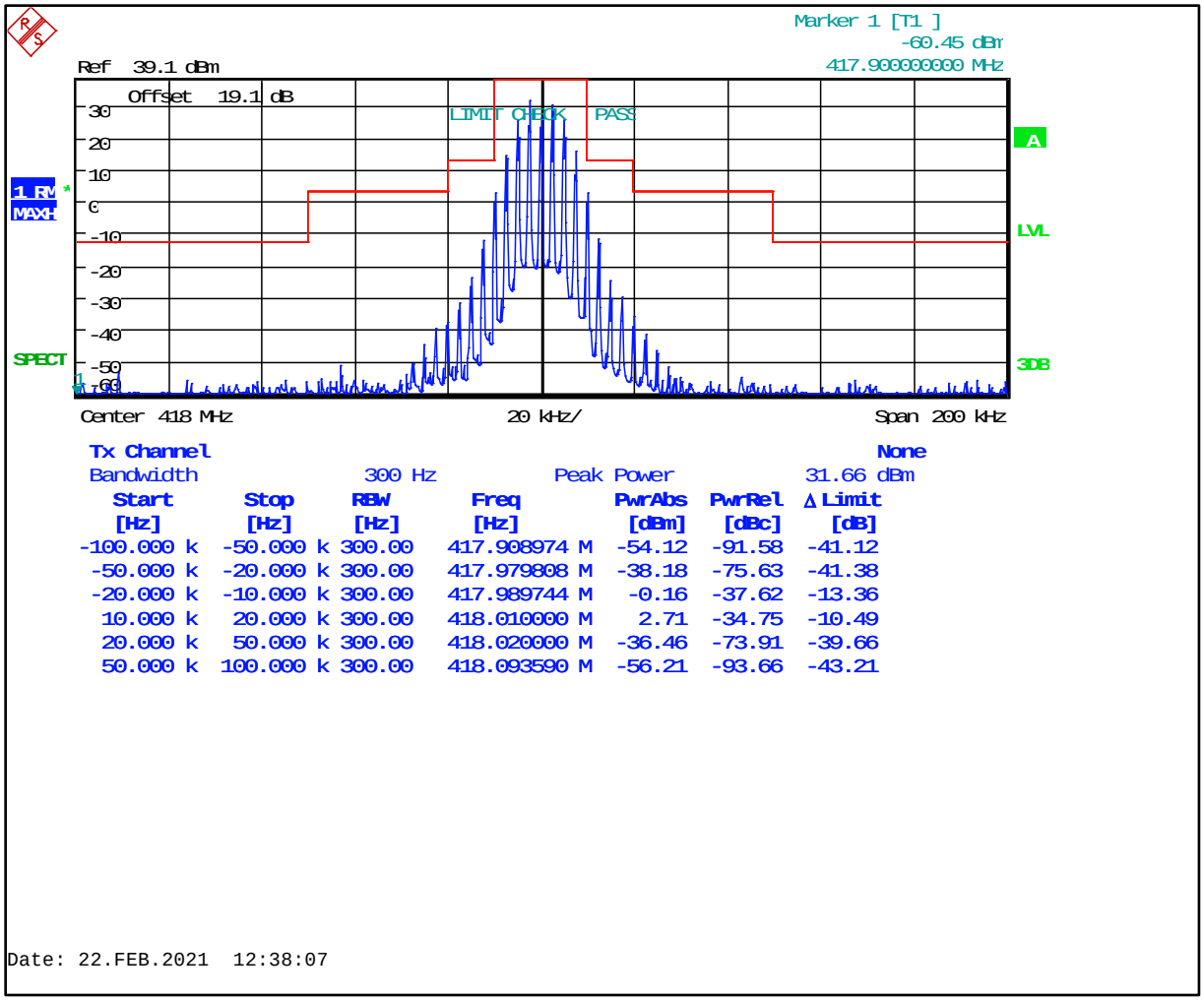
Plot 8-10: Occupied Bandwidth – 378.0125 MHz; Wideband Analog; Mask B



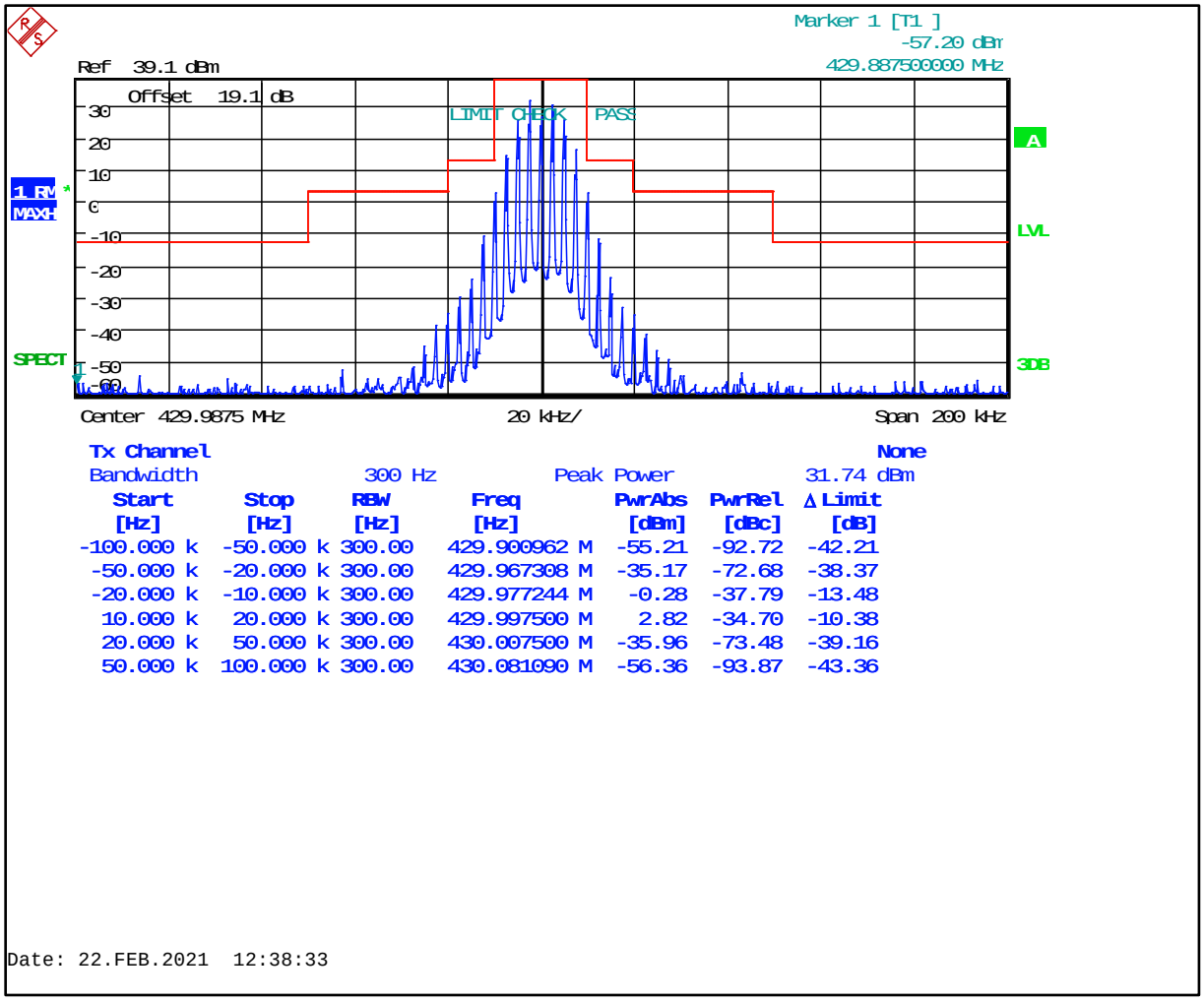
Plot 8-11: Occupied Bandwidth – 406.1125 MHz; Wideband Analog; Mask B



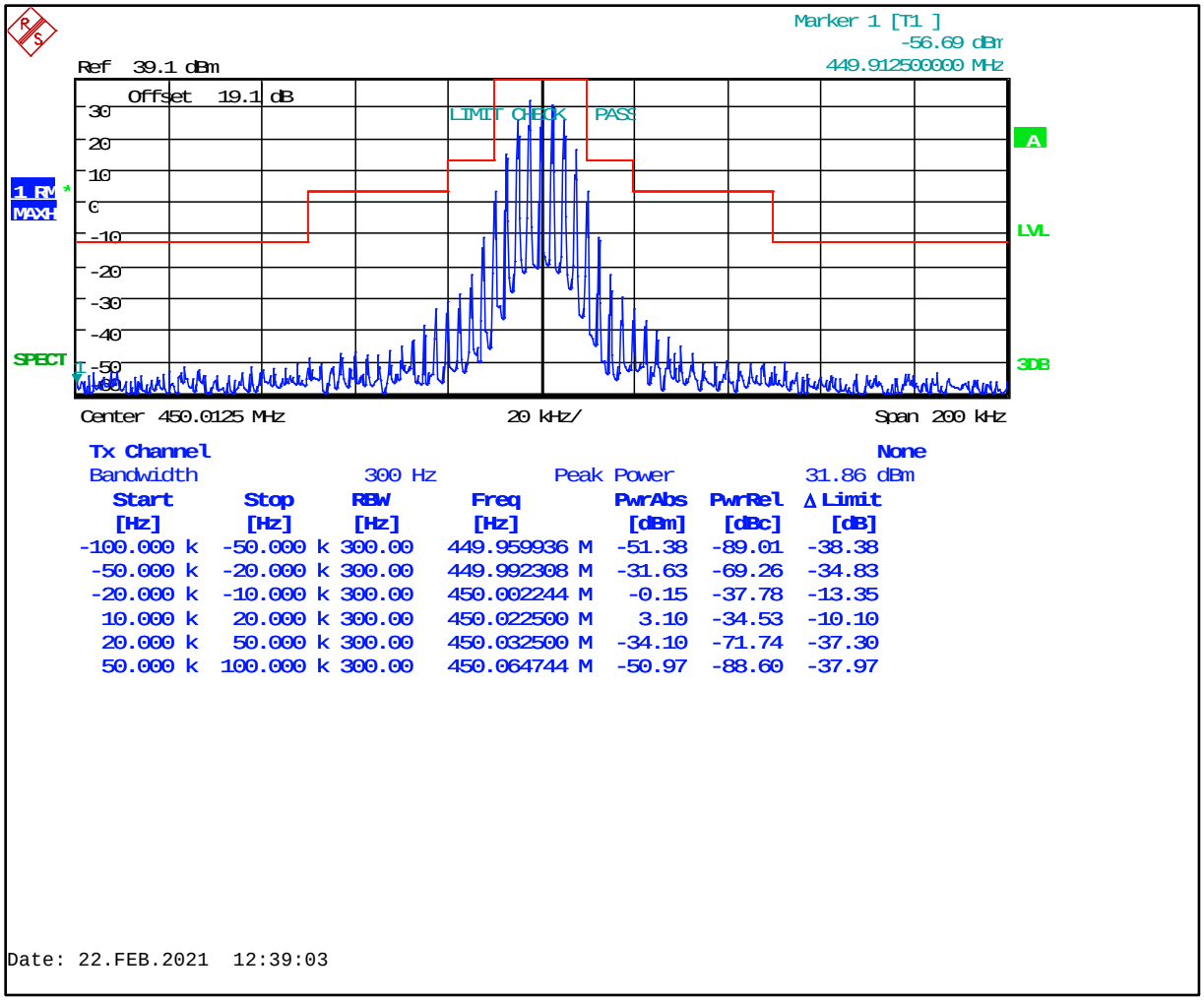
Plot 8-12: Occupied Bandwidth – 418.0000 MHz; Wideband Analog; Mask B



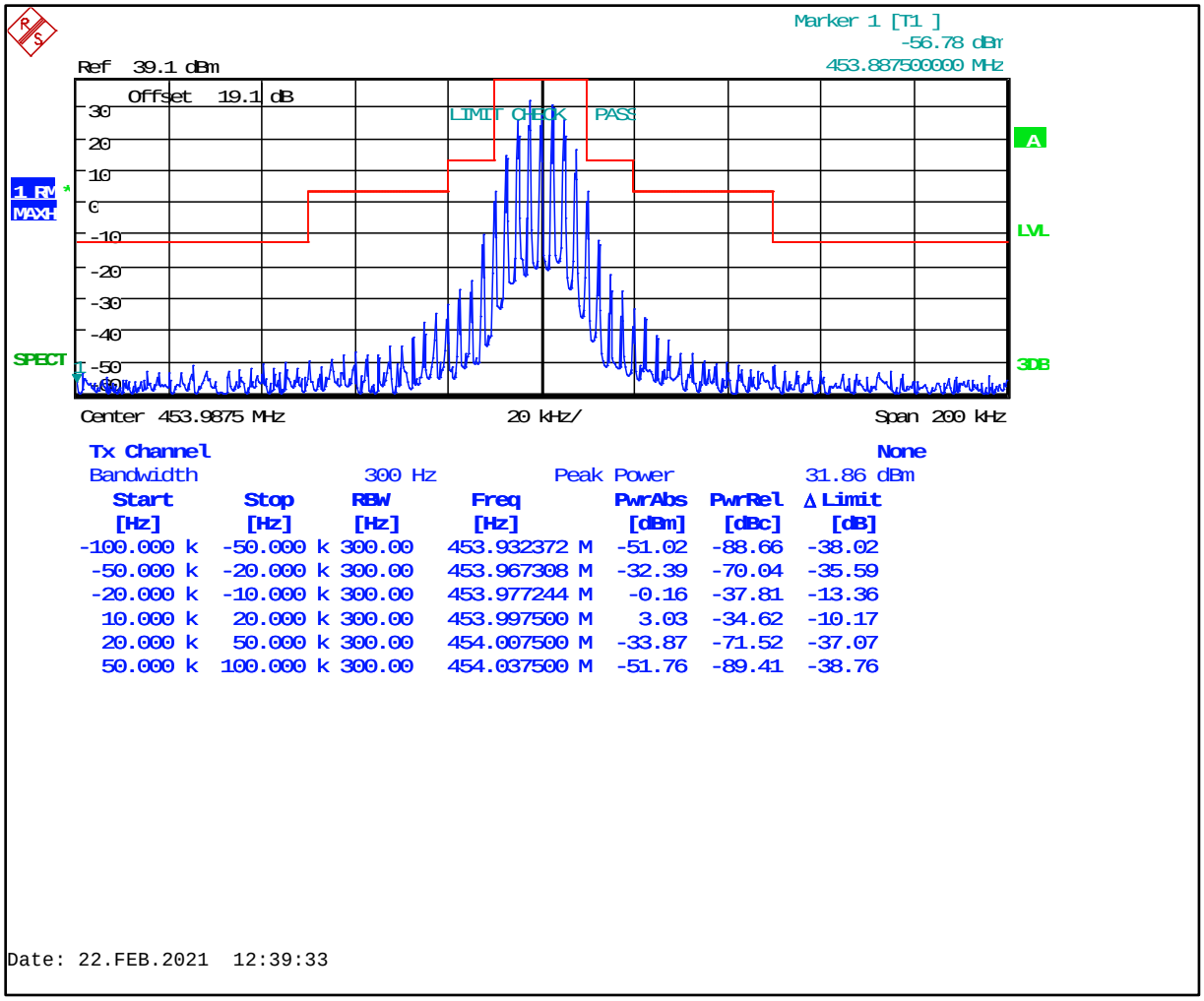
Plot 8-13: Occupied Bandwidth – 429.9875 MHz; Wideband Analog; Mask B



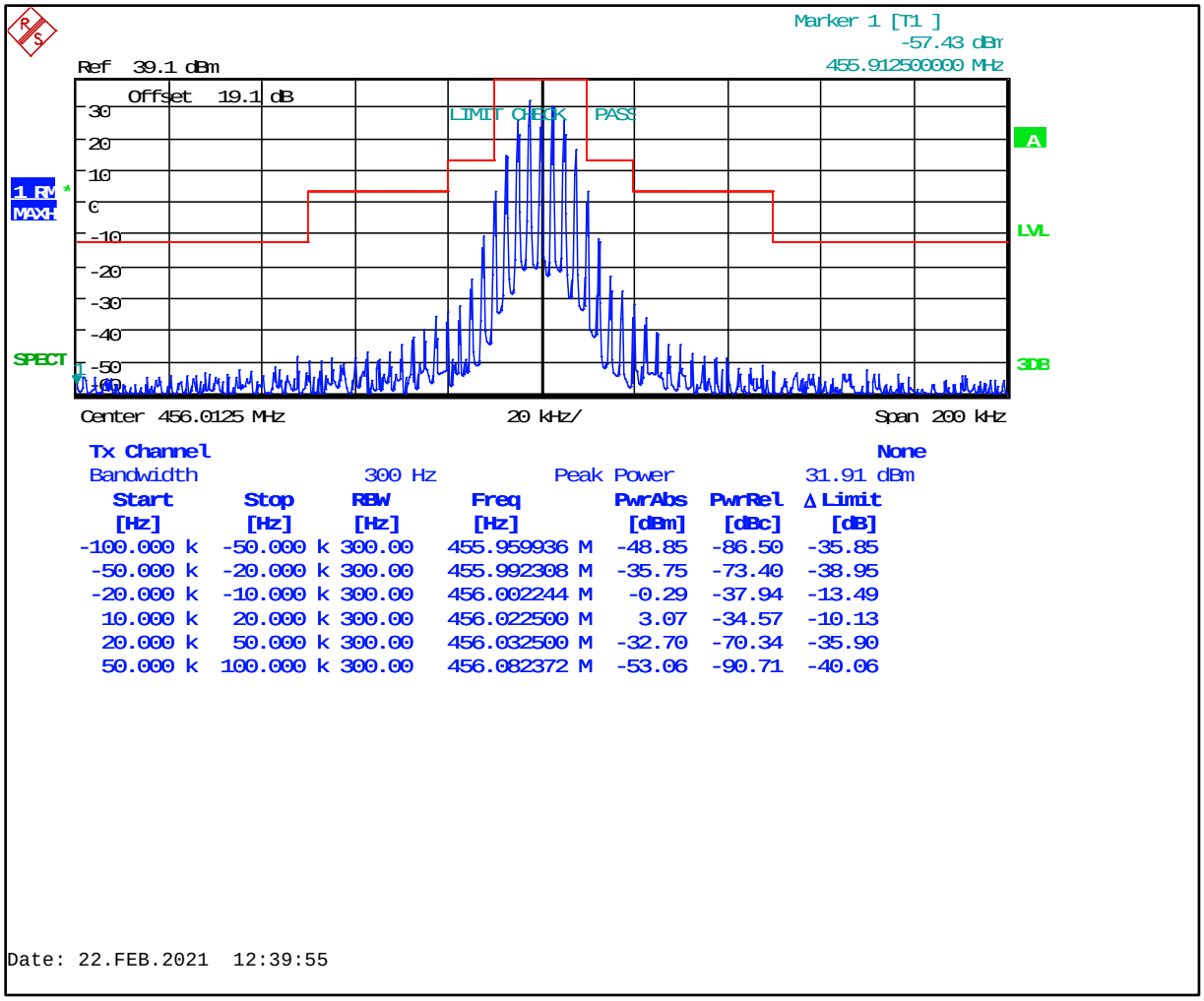
Plot 8-14: Occupied Bandwidth – 450.0125 MHz; Wideband Analog; Mask B



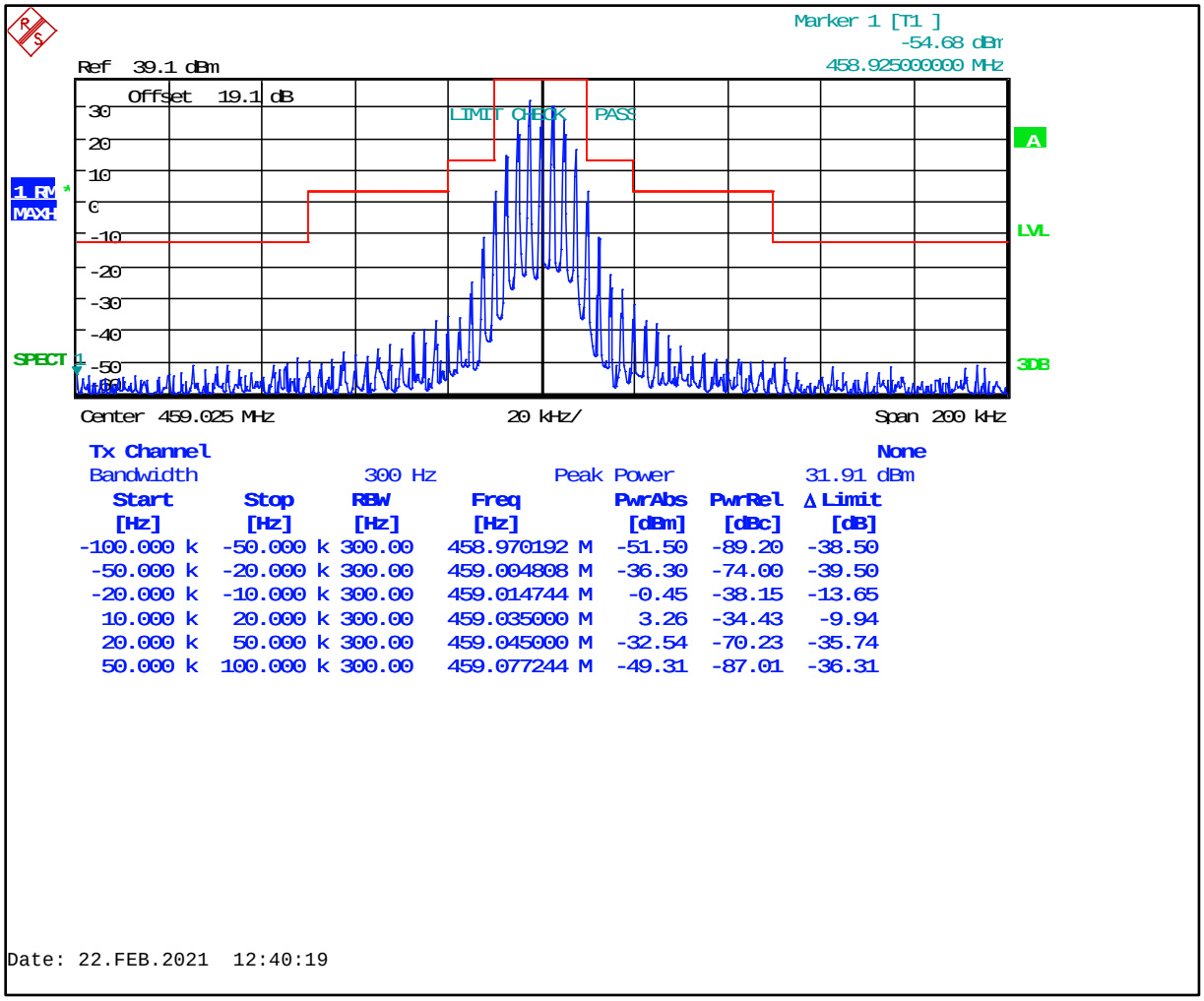
Plot 8-15: Occupied Bandwidth – 453.9875 MHz; Wideband Analog; Mask B



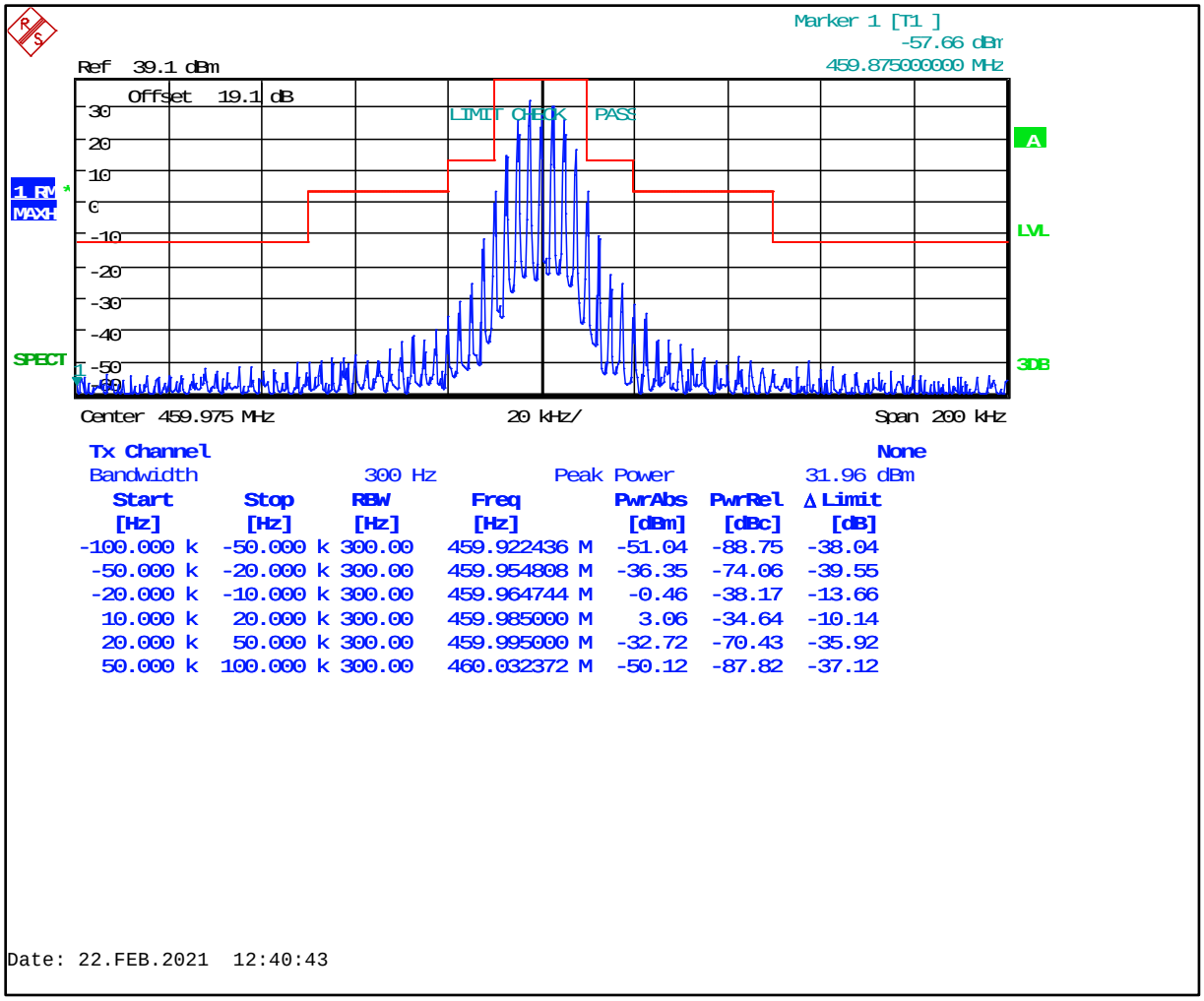
Plot 8-16: Occupied Bandwidth – 456.0125 MHz; Wideband Analog; Mask B



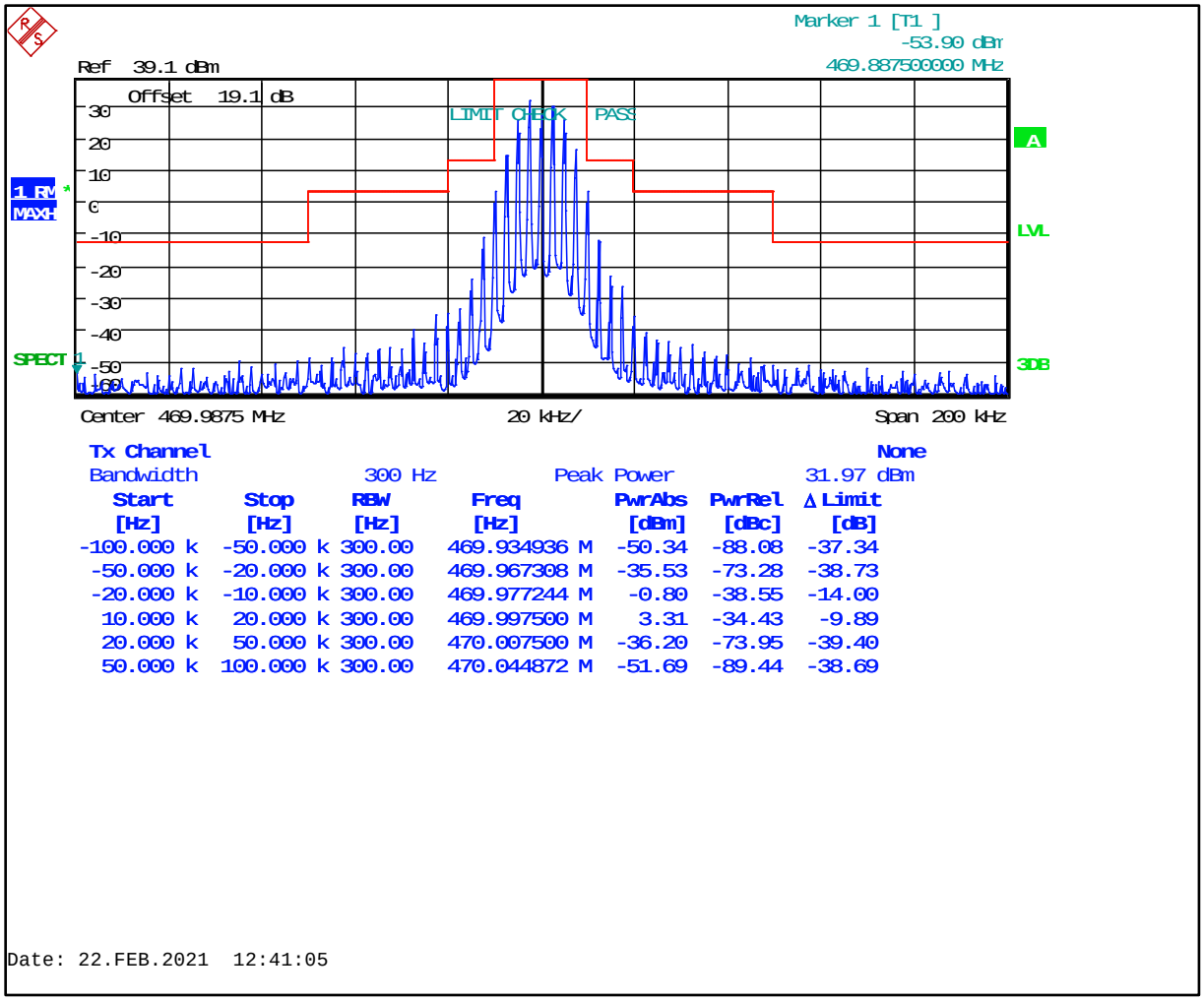
Plot 8-17: Occupied Bandwidth – 459.0250 MHz; Wideband Analog; Mask B



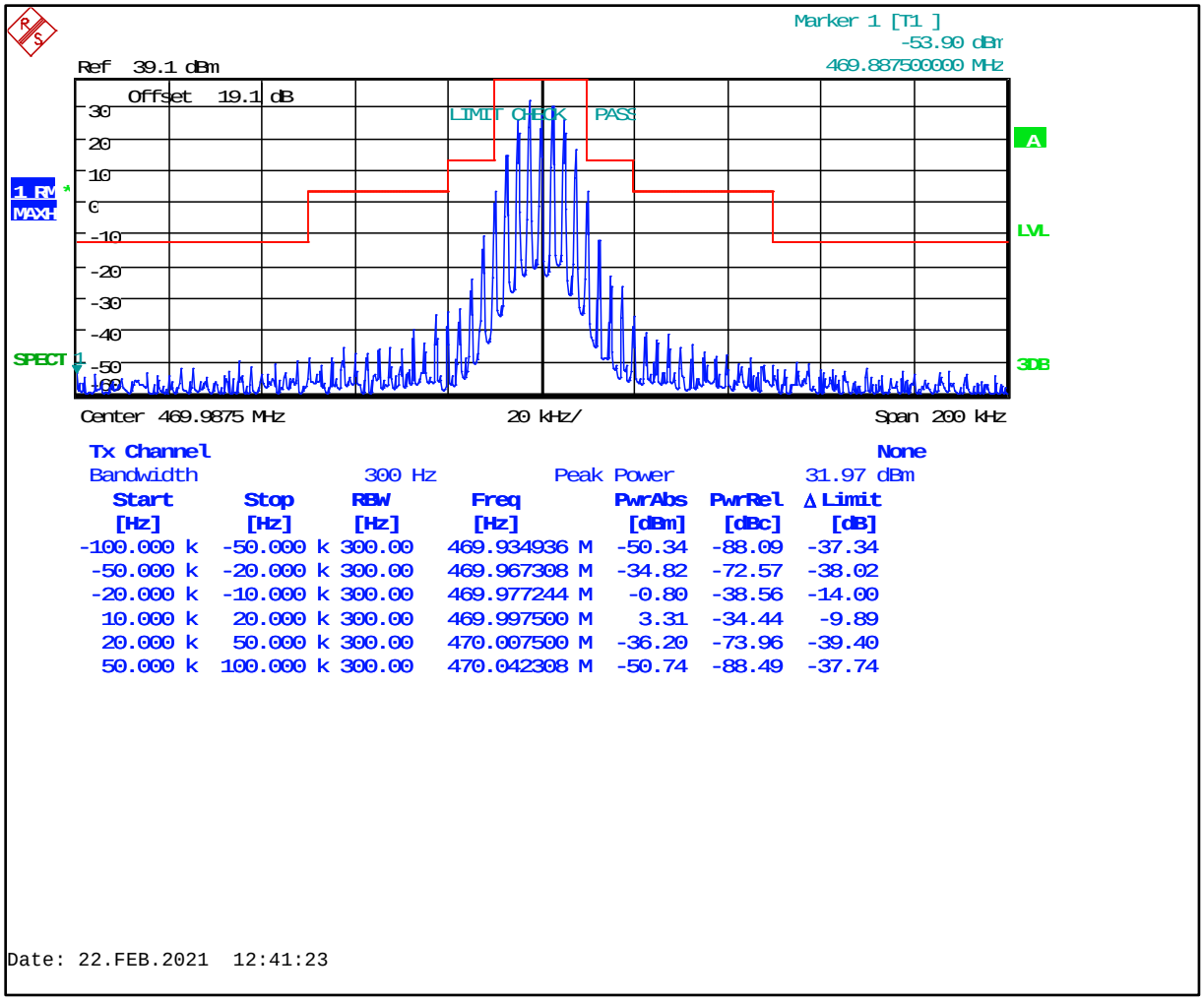
Plot 8-18: Occupied Bandwidth – 459.9750 MHz; Wideband Analog; Mask B



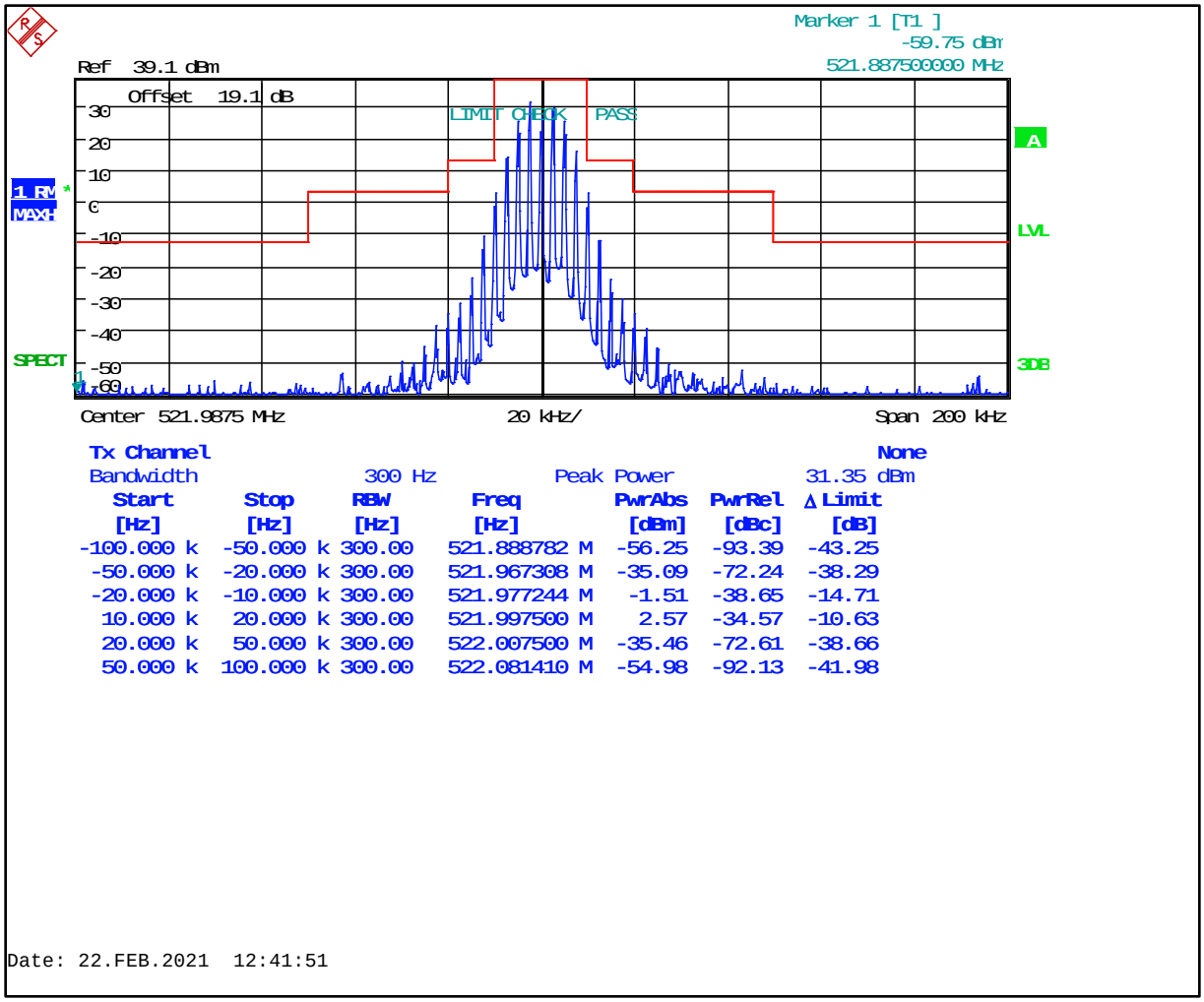
Plot 8-19: Occupied Bandwidth – 469.9875 MHz; Wideband Analog; Mask B



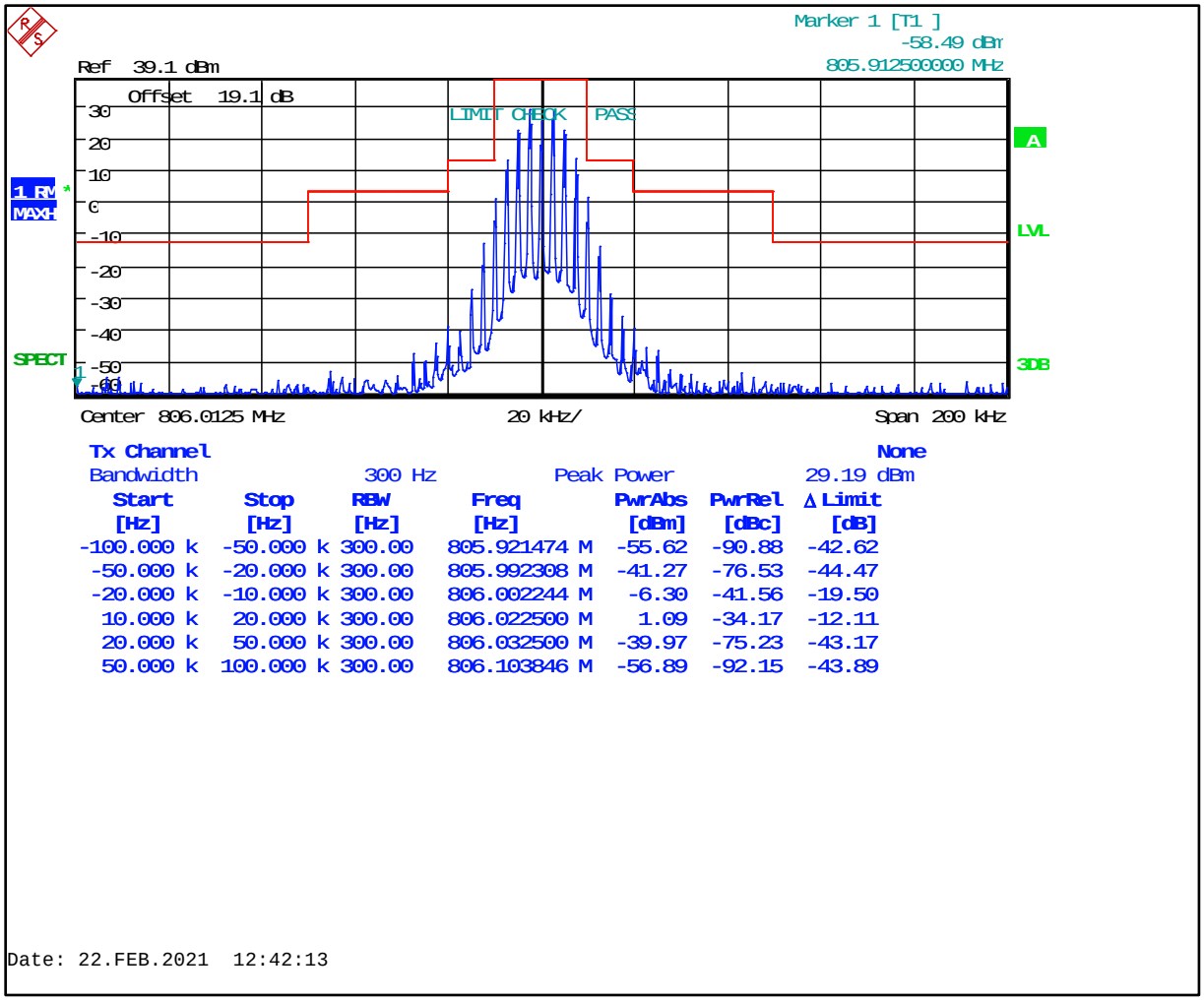
Plot 8-20: Occupied Bandwidth –511.9875 MHz; Wideband Analog; Mask B



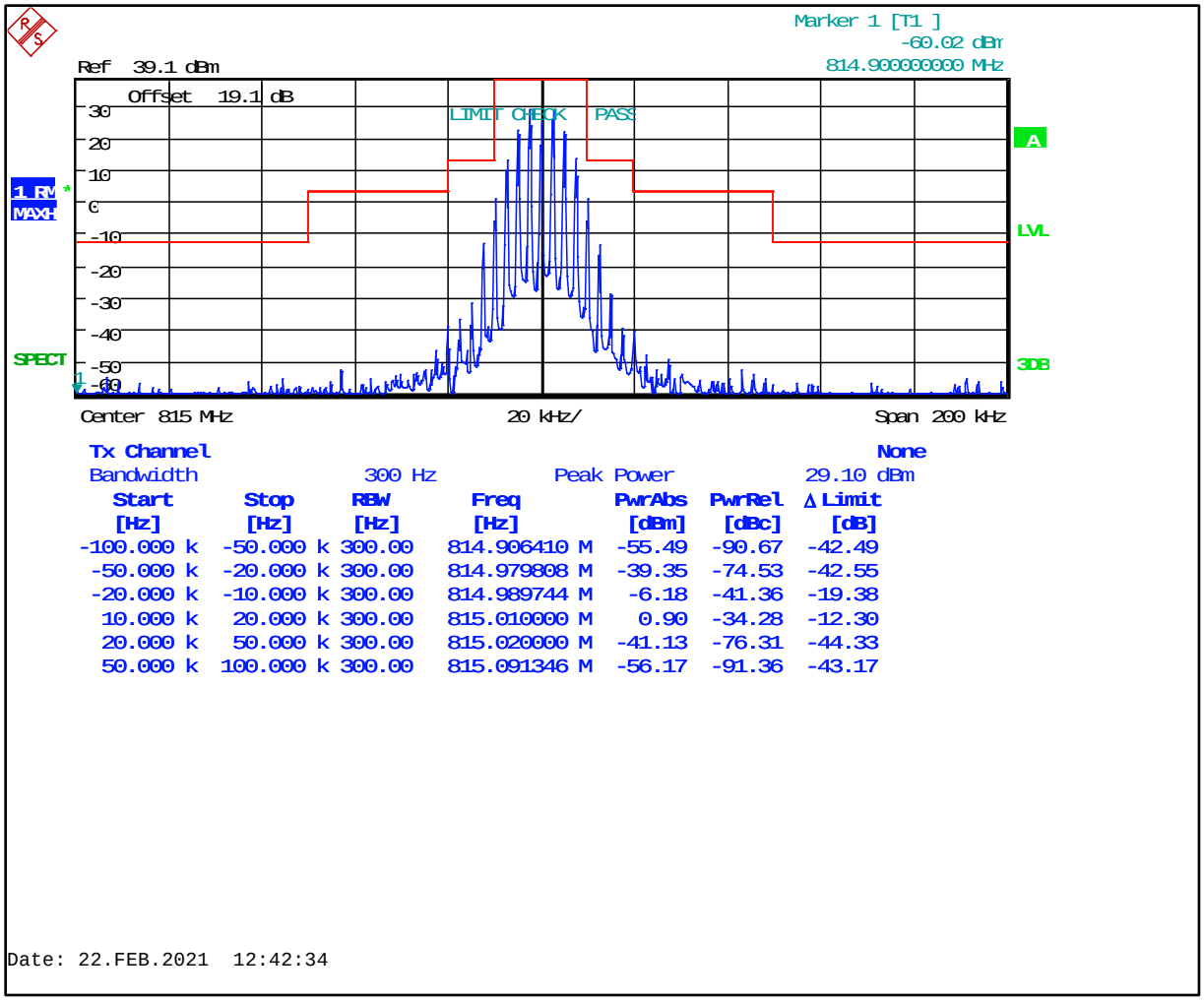
Plot 8-21: Occupied Bandwidth – 521.9875 MHz; Wideband Analog; Mask B



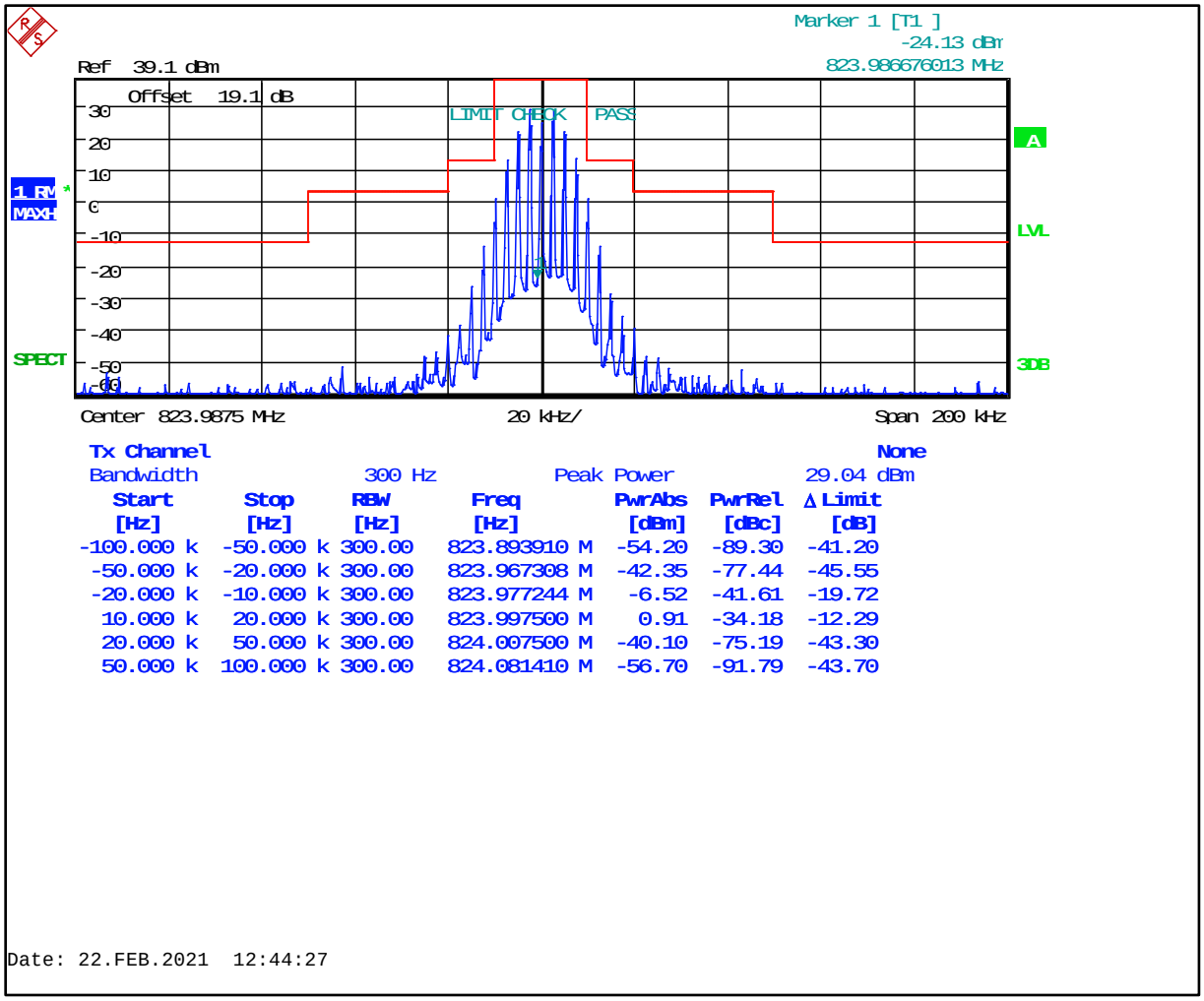
Plot 8-22: Occupied Bandwidth – 806.0125 MHz; Wideband Analog; Mask B



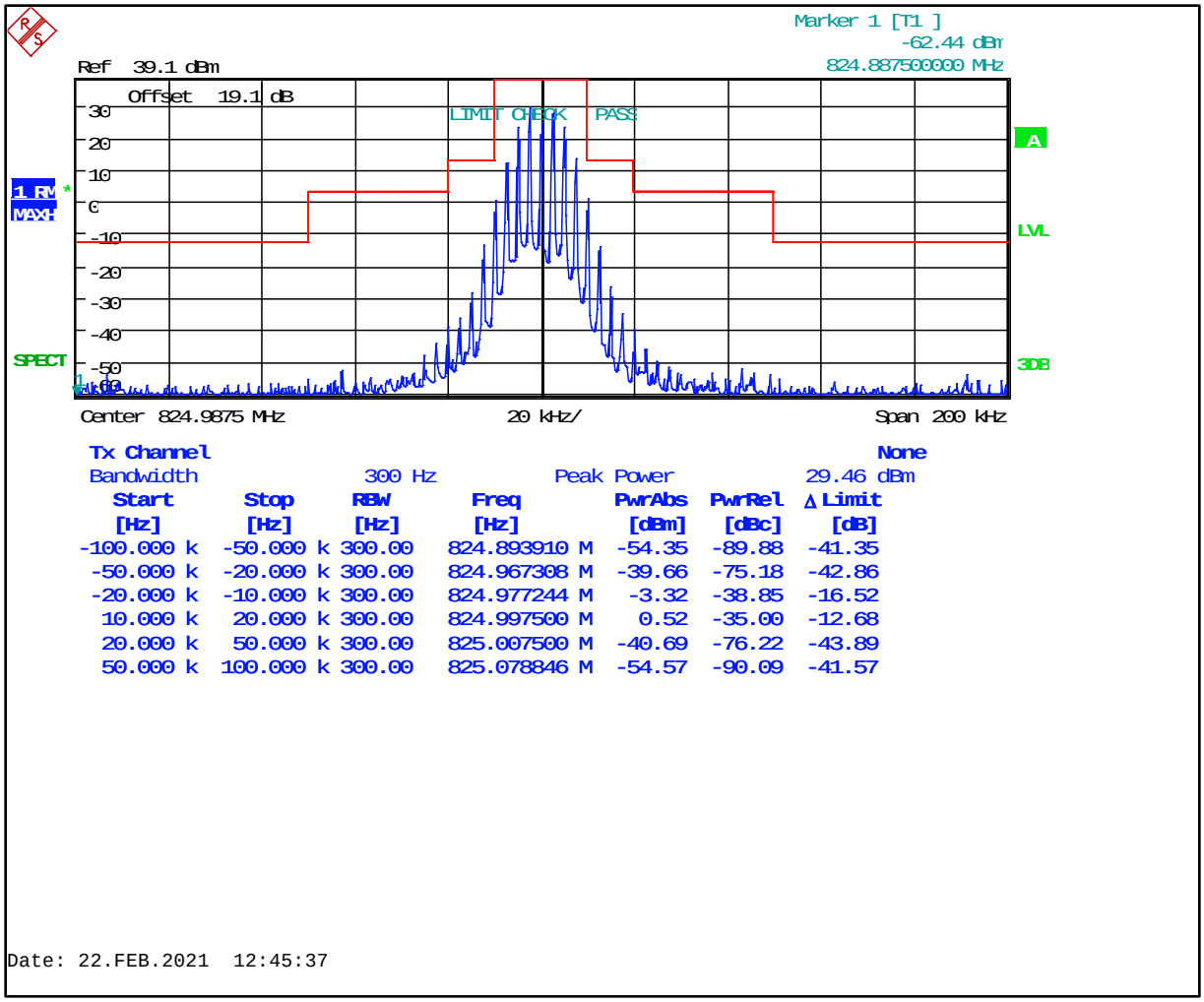
Plot 8-23: Occupied Bandwidth – 815.0000 MHz; Wideband Analog; Mask B



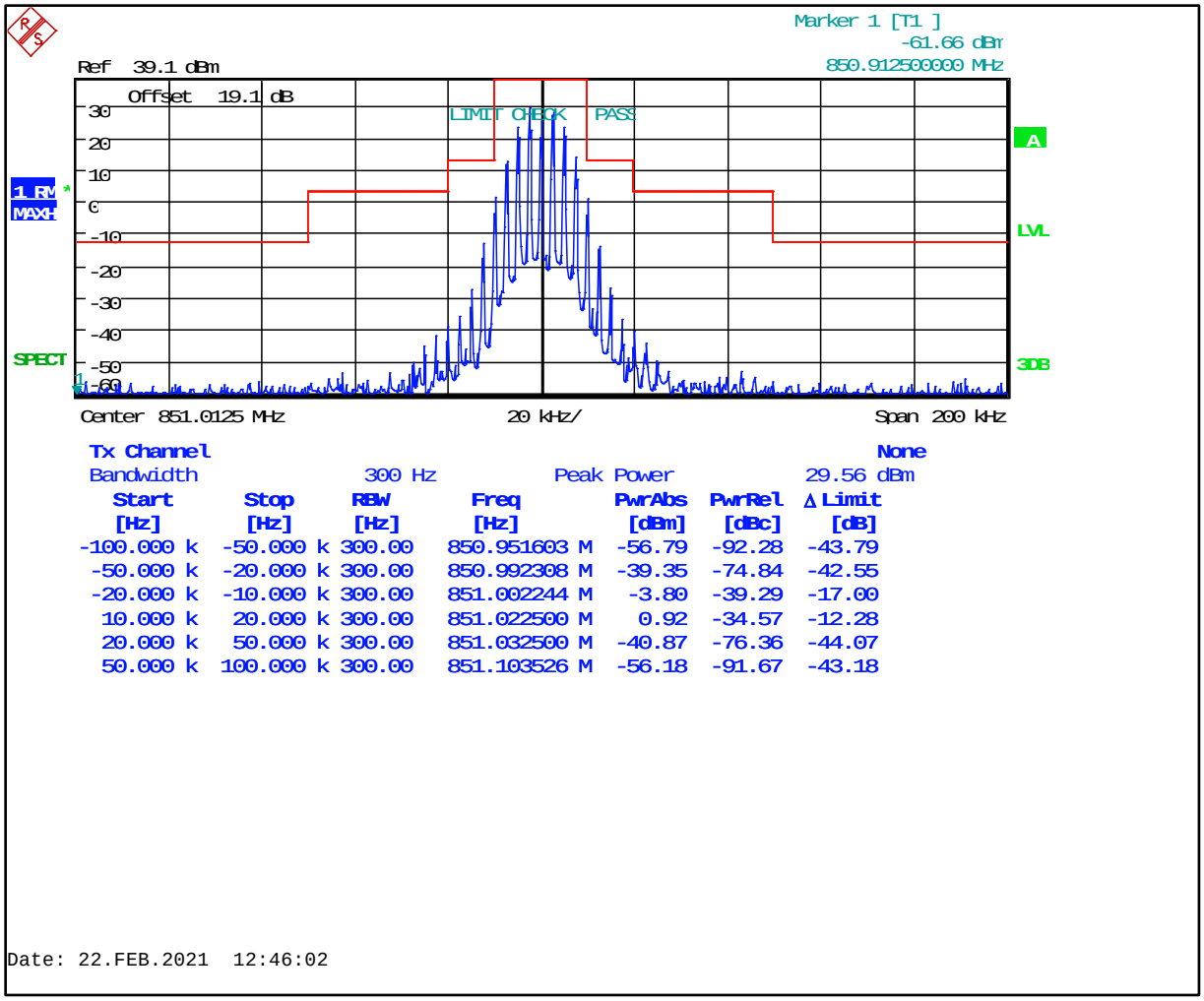
Plot 8-24: Occupied Bandwidth – 823.9875 MHz; Wideband Analog; Mask B



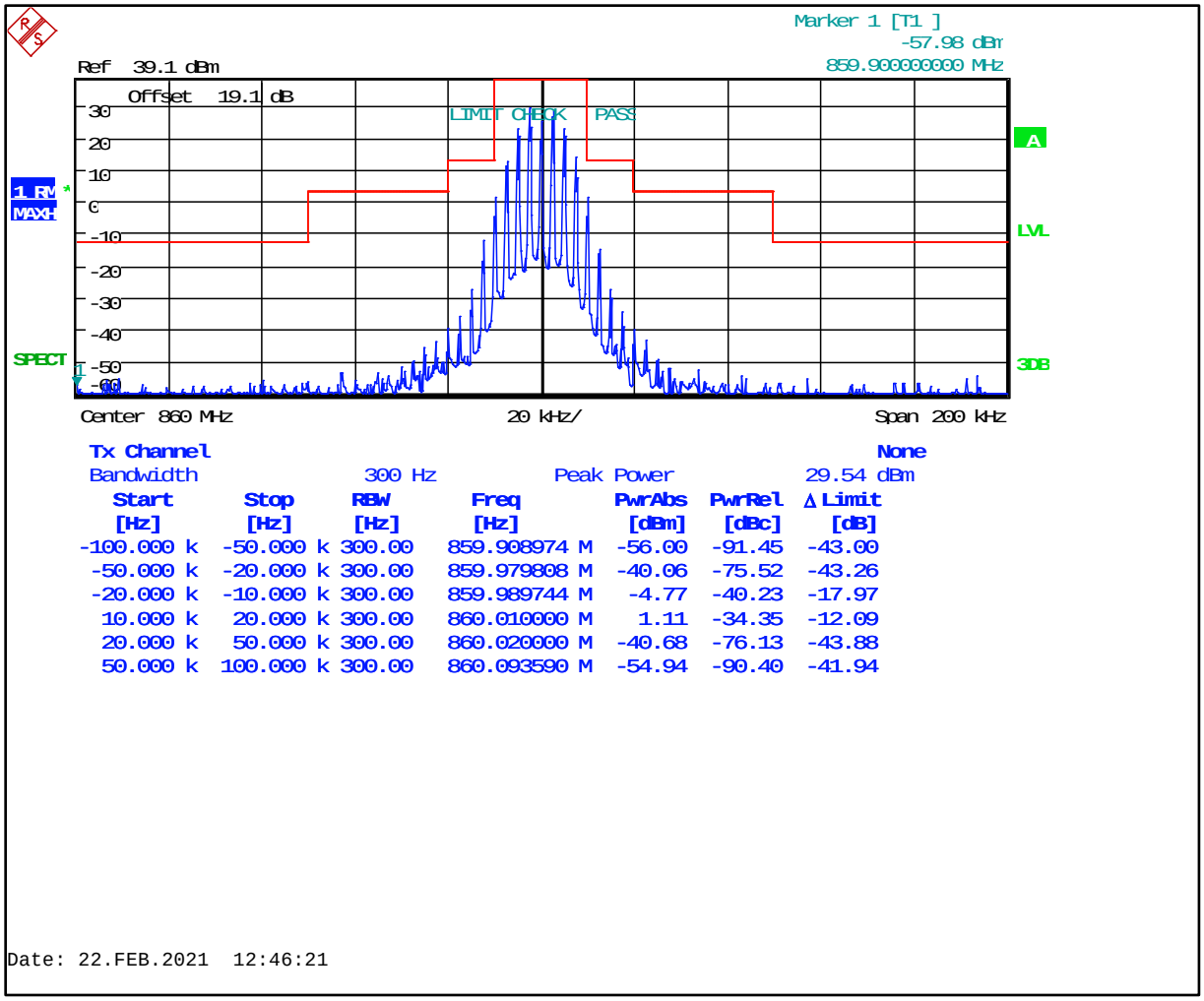
Plot 8-25: Occupied Bandwidth – 824.9875 MHz; Wideband Analog; Mask B



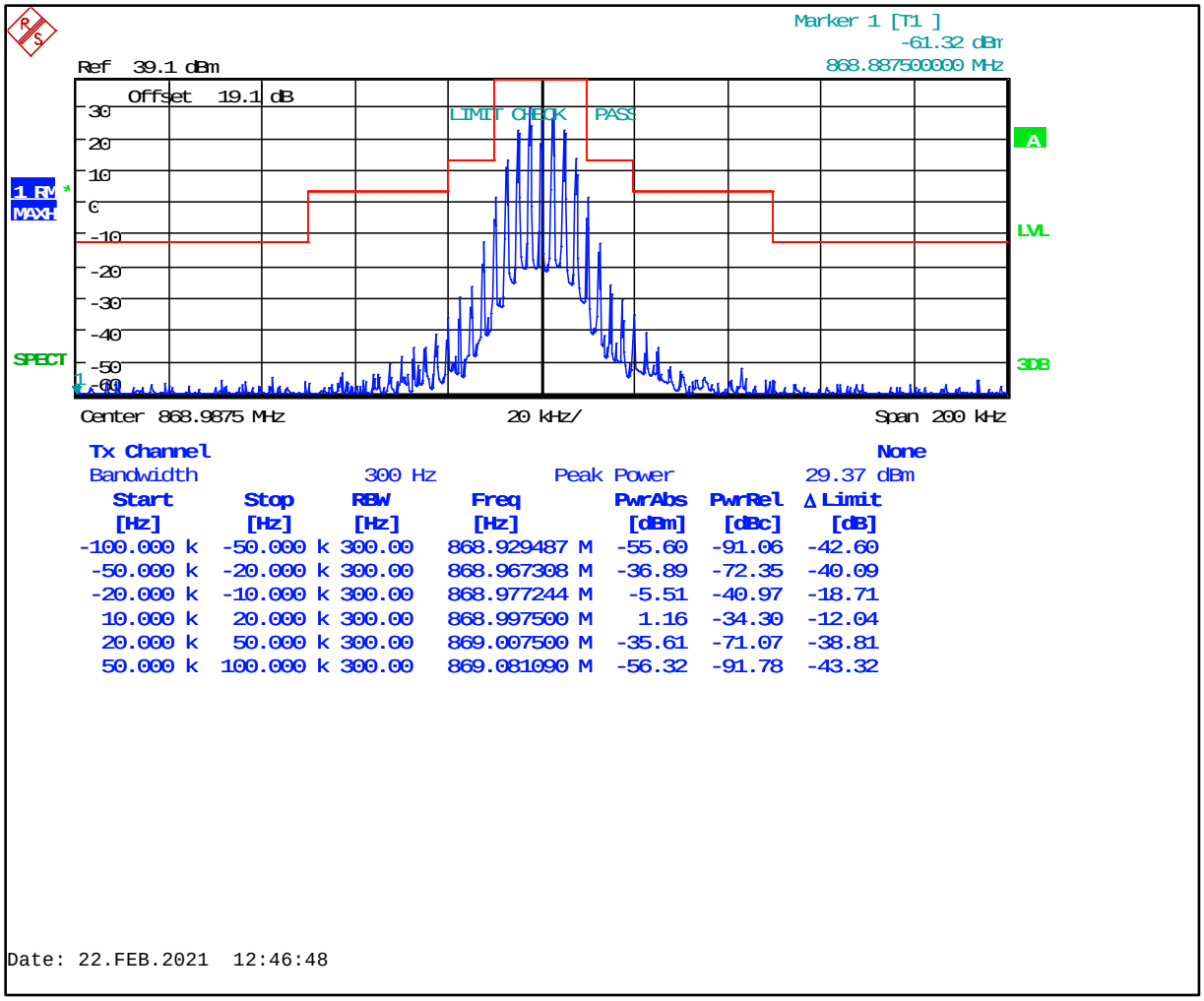
Plot 8-26: Occupied Bandwidth – 851.0125 MHz; Wideband Analog; Mask B



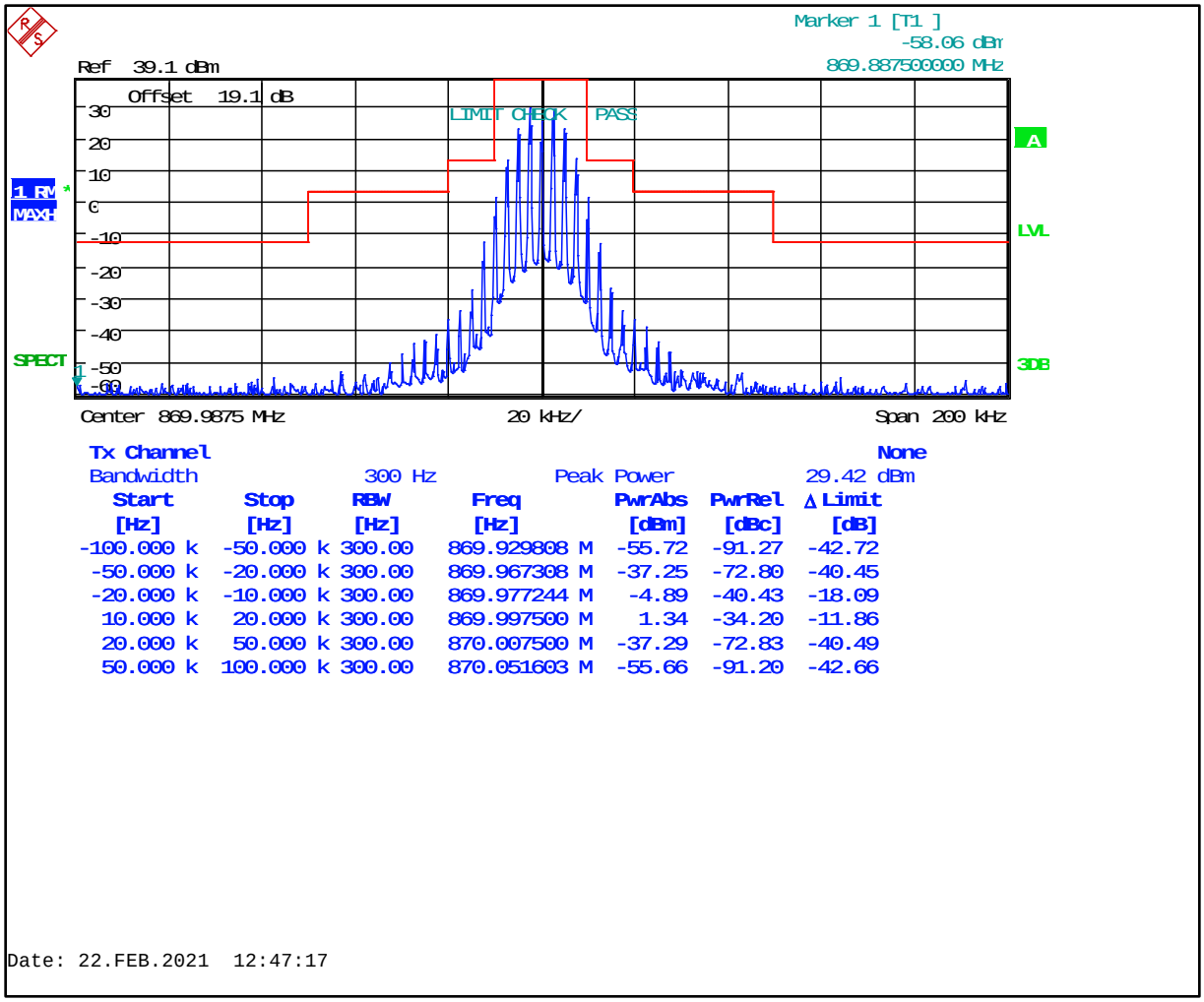
Plot 8-27: Occupied Bandwidth – 860.0000 MHz; Wideband Analog; Mask B



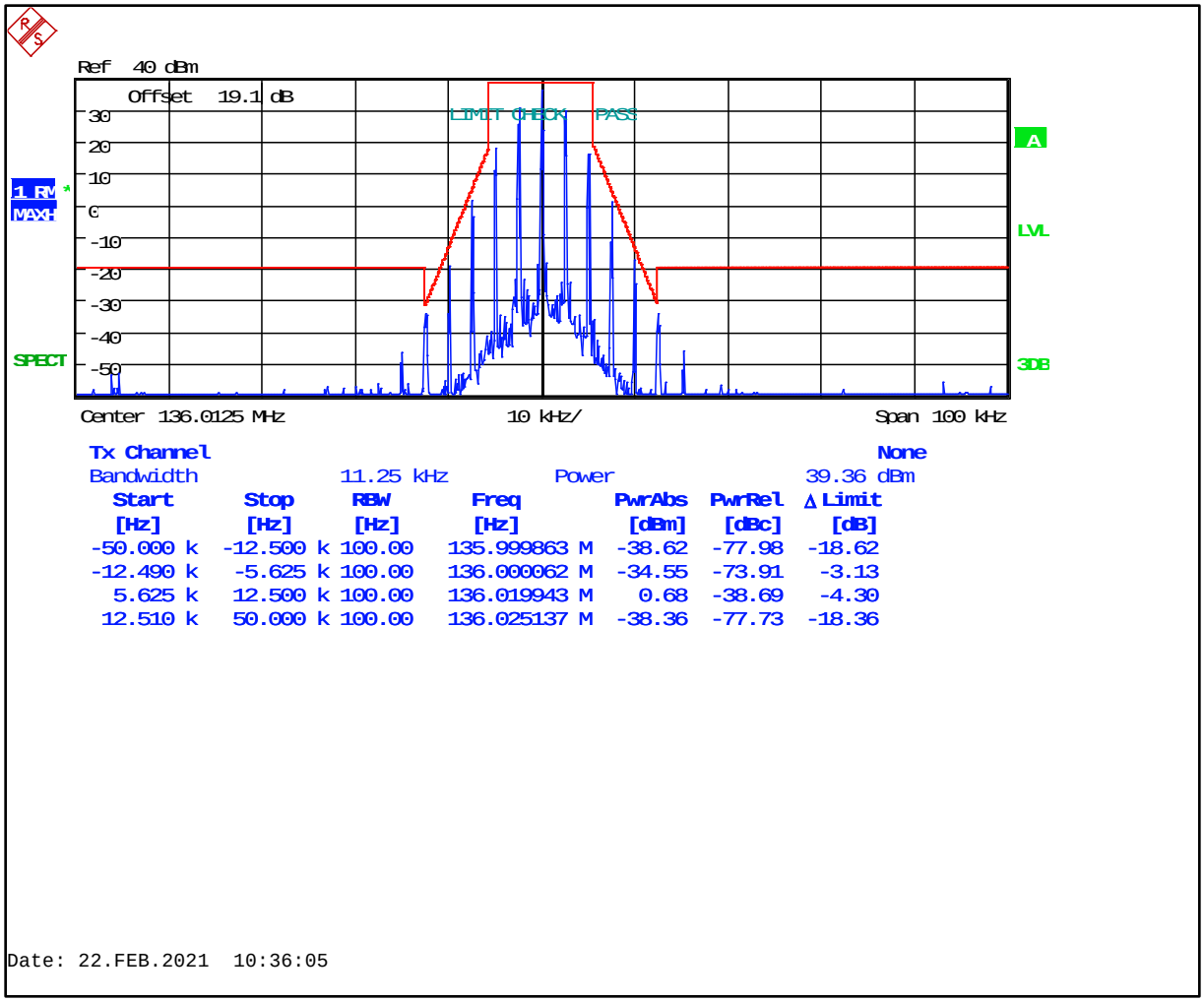
Plot 8-28: Occupied Bandwidth –868.9875 MHz; Wideband Analog; Mask B



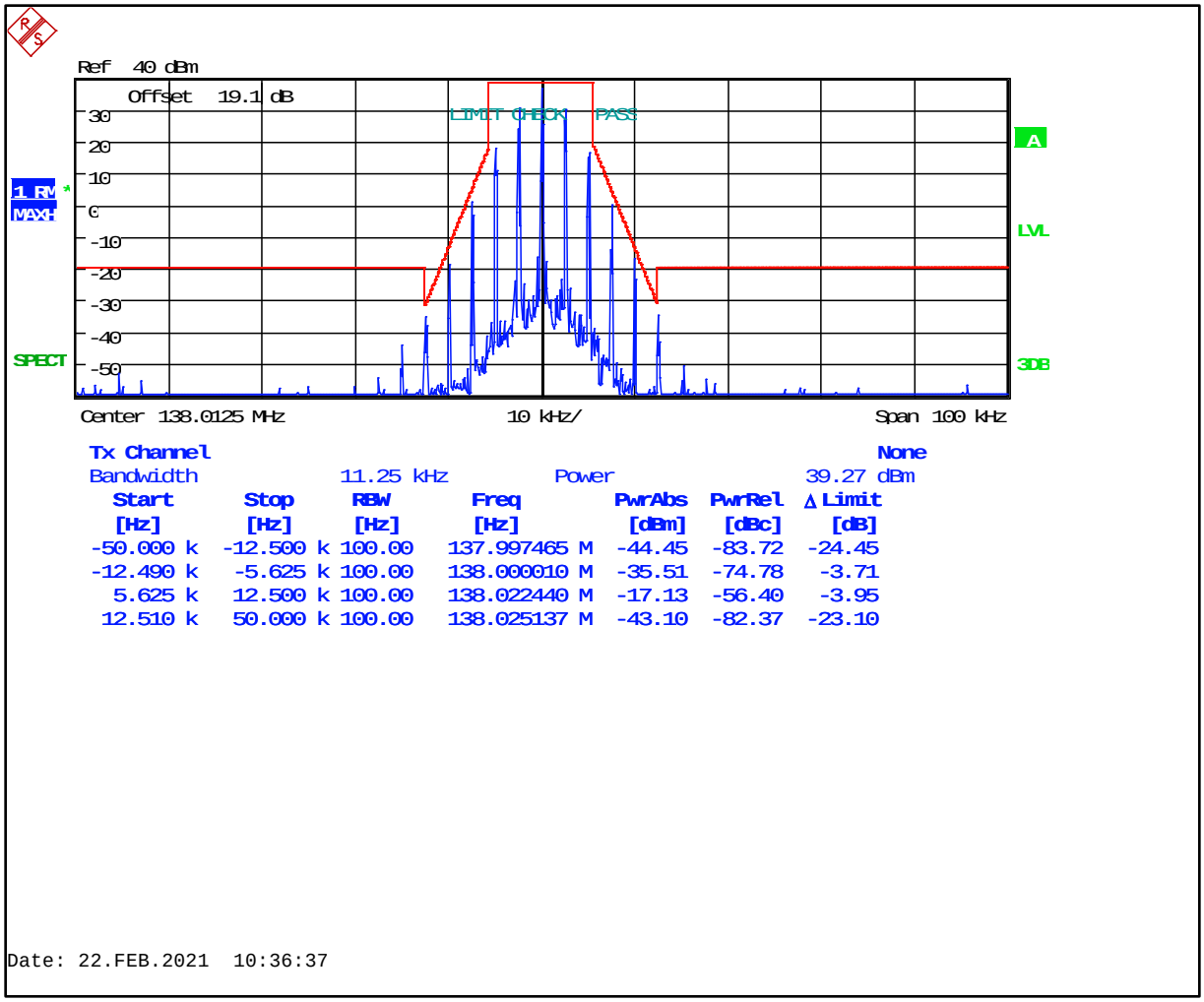
Plot 8-29: Occupied Bandwidth – 869.9875 MHz; Wideband Analog; Mask B



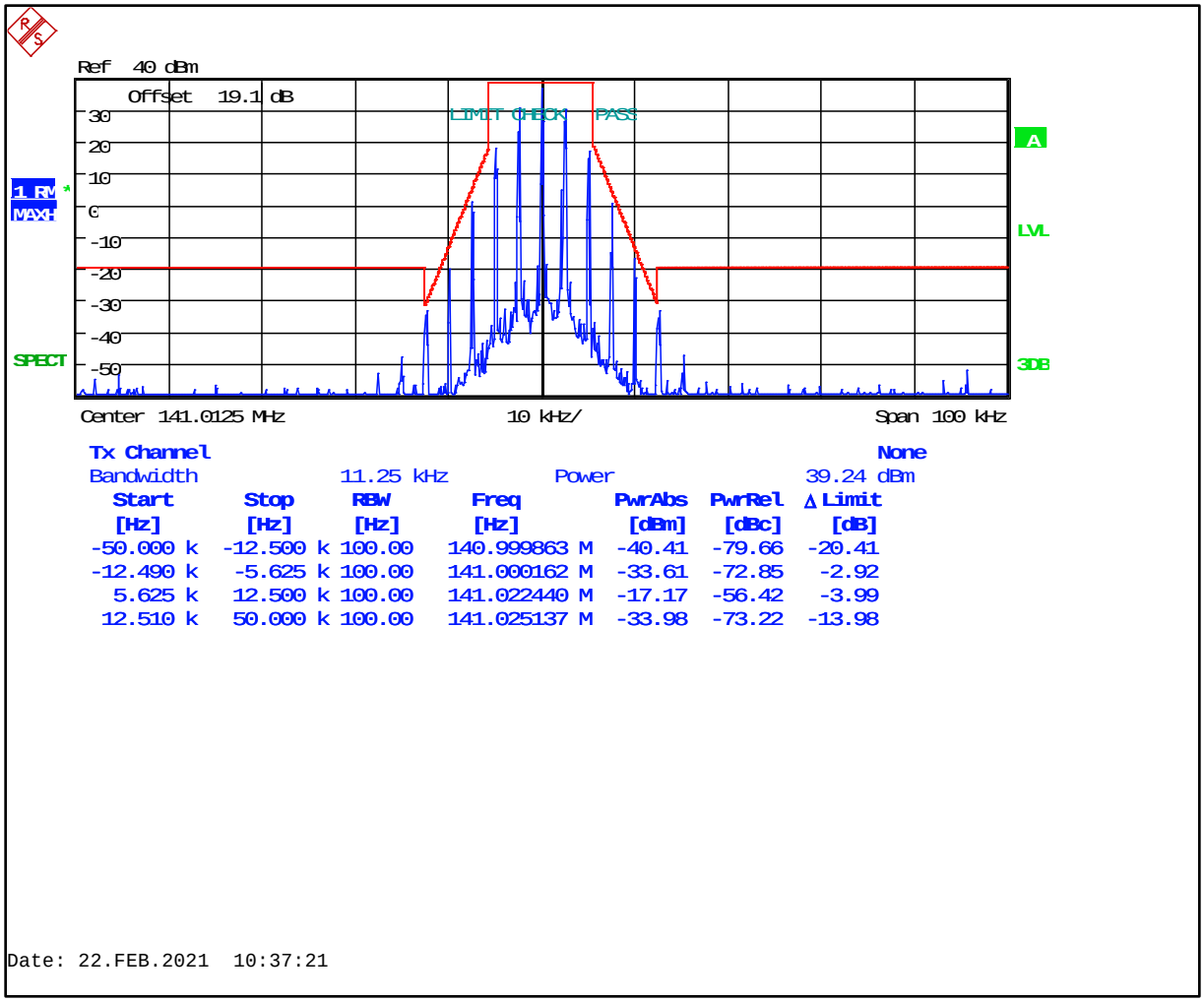
Plot 8-30: Occupied Bandwidth – 136.0125 MHz; Narrowband Analog; Mask D



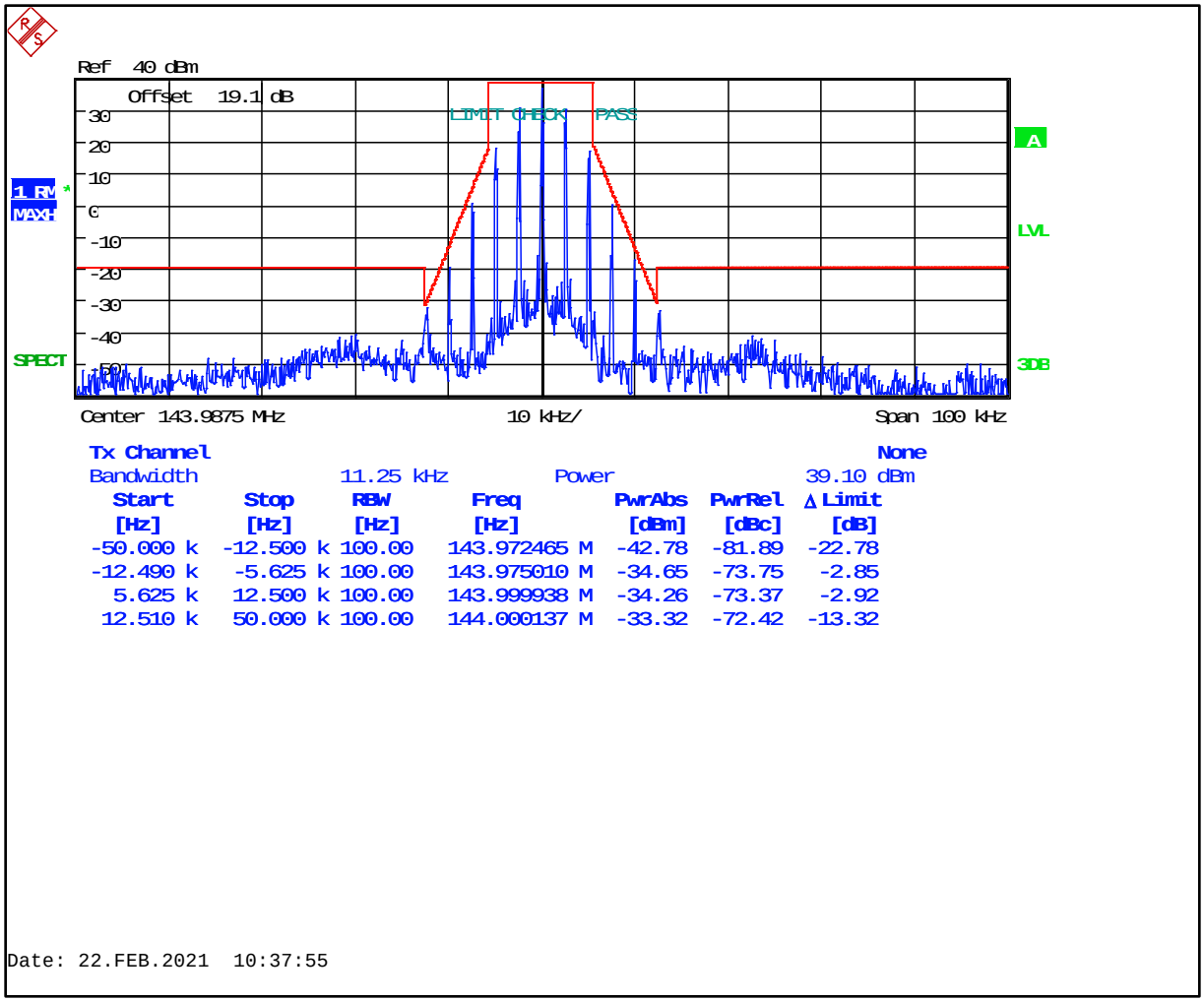
Plot 8-31: Occupied Bandwidth – 138.0125 MHz; Narrowband Analog; Mask D



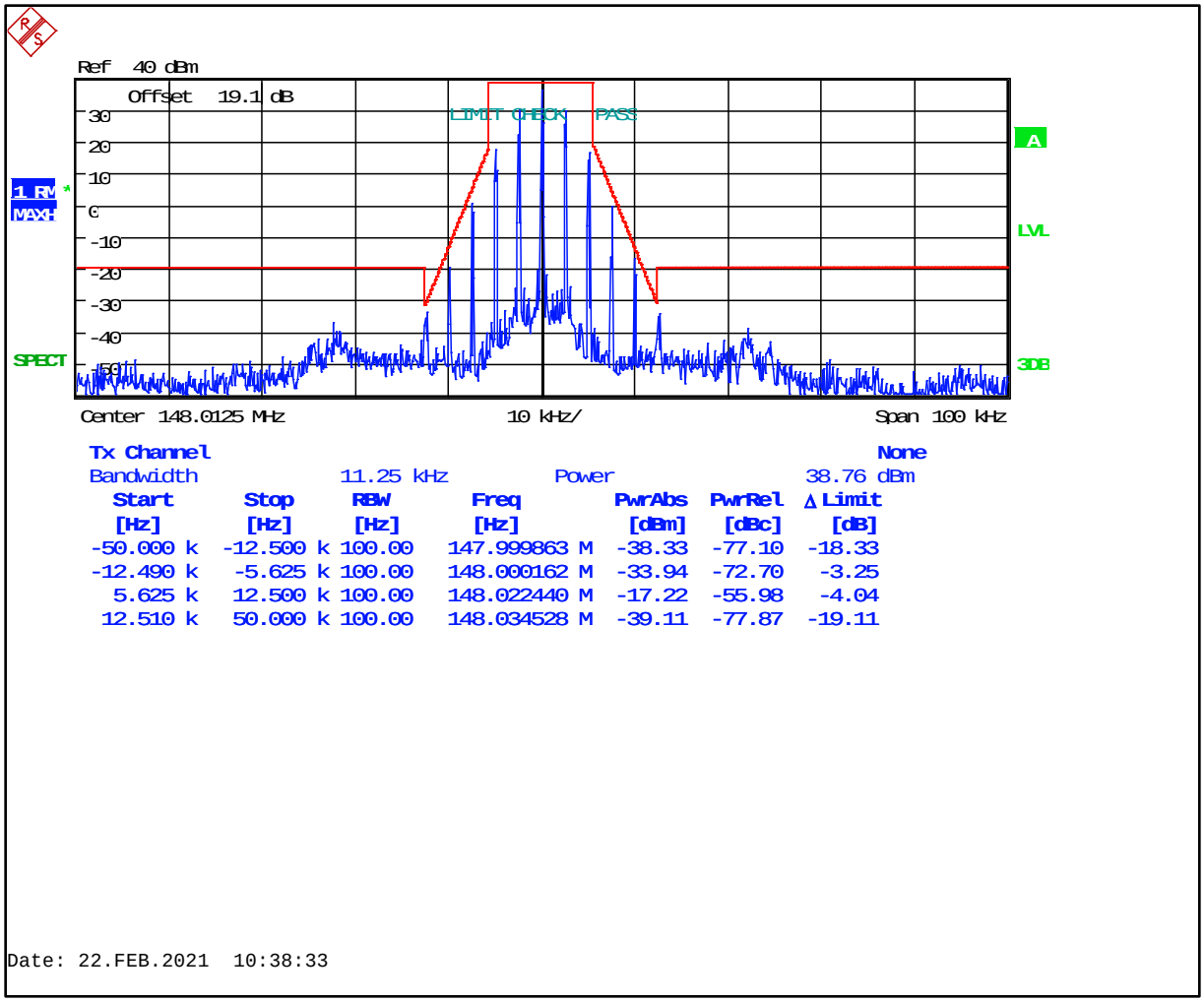
Plot 8-32: Occupied Bandwidth – 141.0125 MHz; Narrowband Analog; Mask D



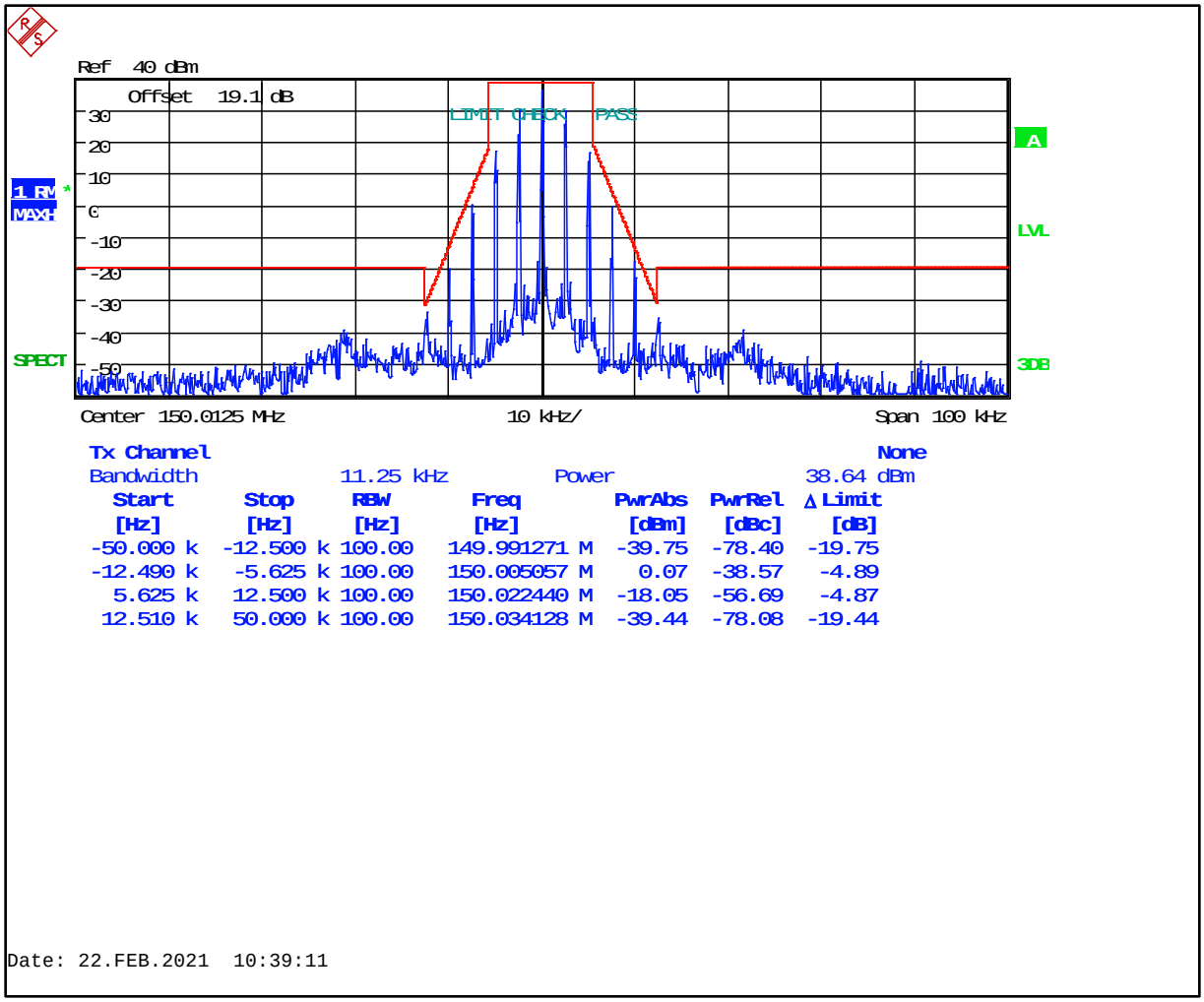
Plot 8-33: Occupied Bandwidth – 143.9875 MHz; Narrowband Analog; Mask D



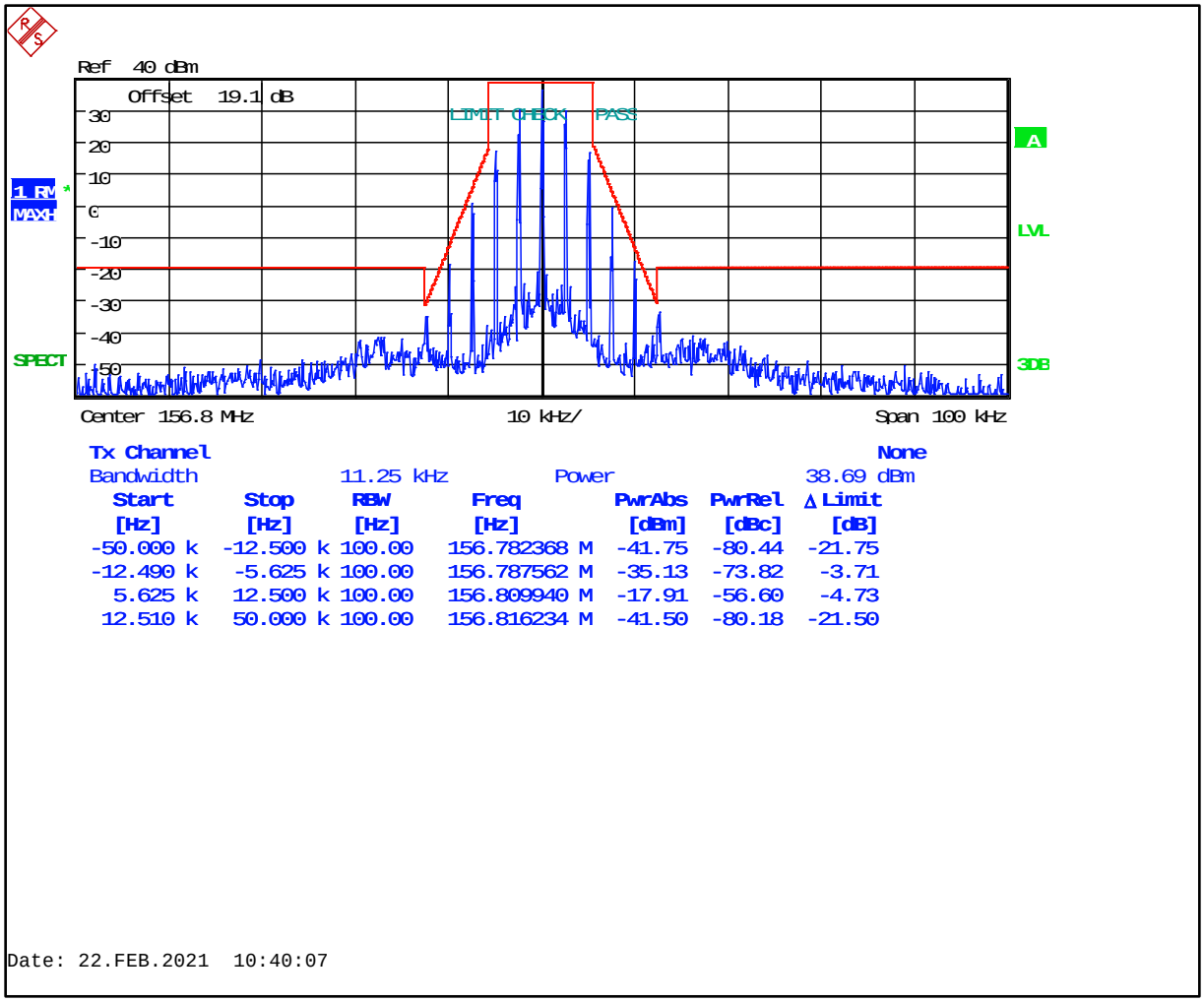
Plot 8-34: Occupied Bandwidth – 148.0125 MHz; Narrowband Analog; Mask D



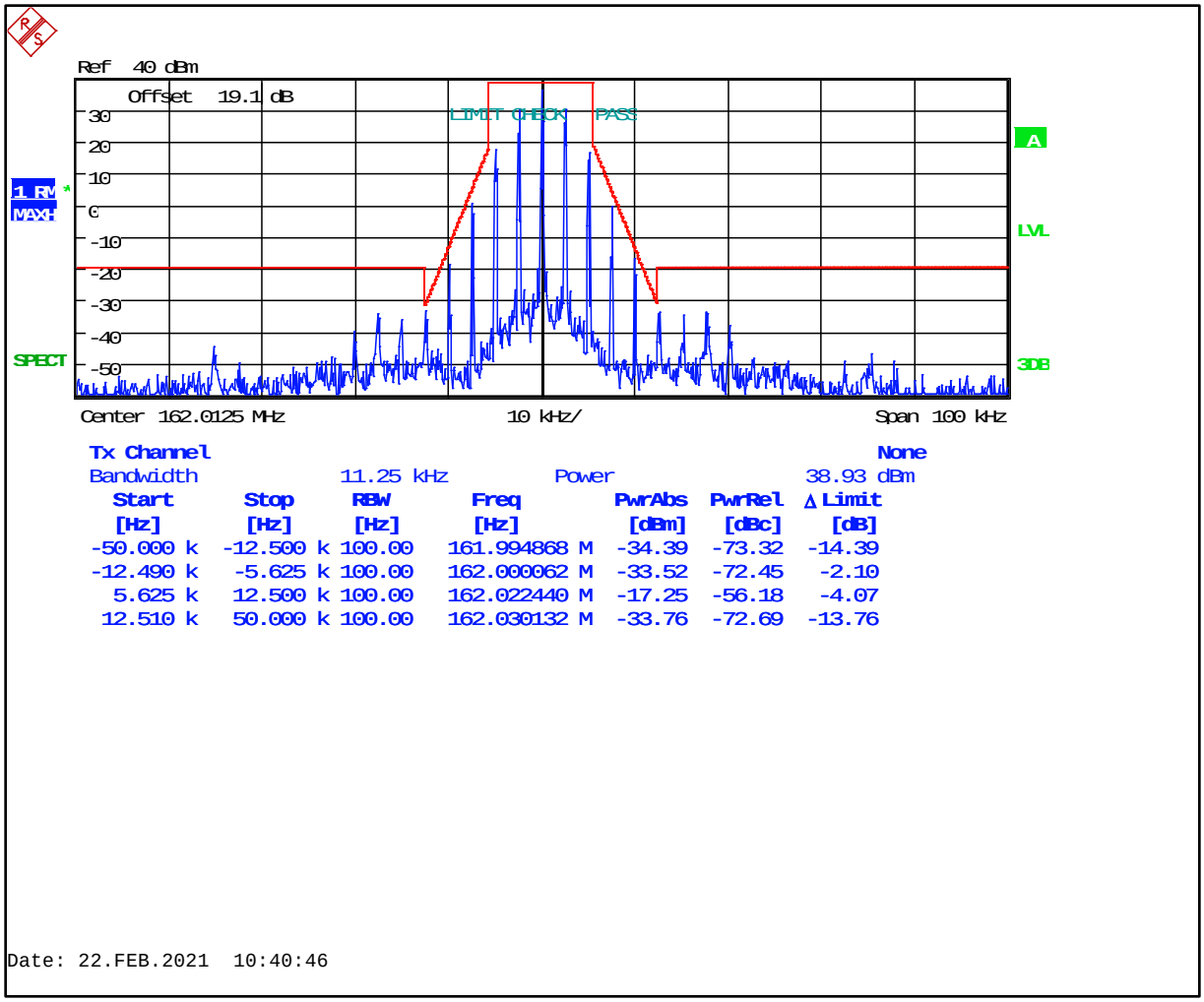
Plot 8-35: Occupied Bandwidth – 150.0125 MHz; Narrowband Analog; Mask D



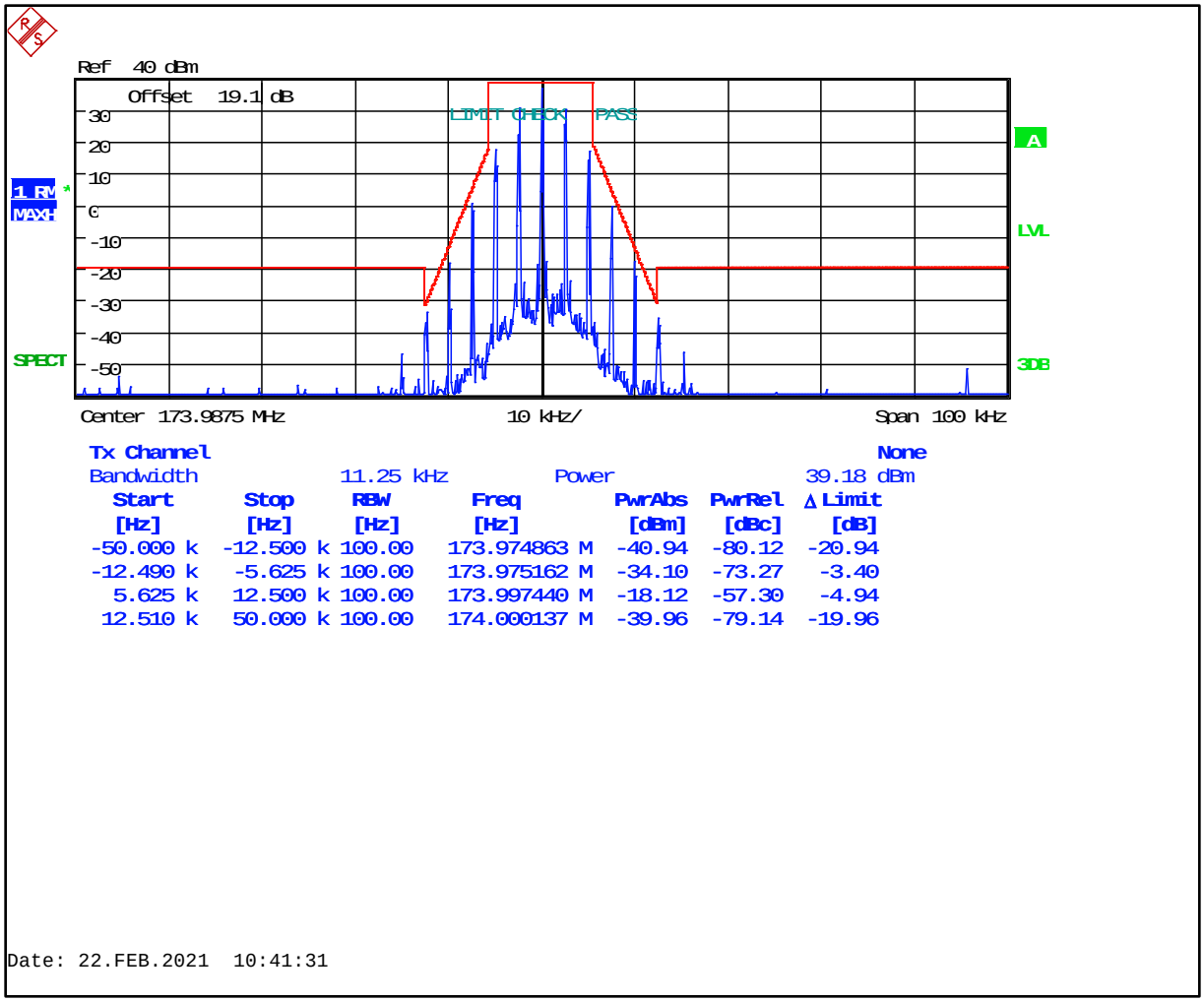
Plot 8-36: Occupied Bandwidth – 156.8000 MHz; Narrowband Analog; Mask D



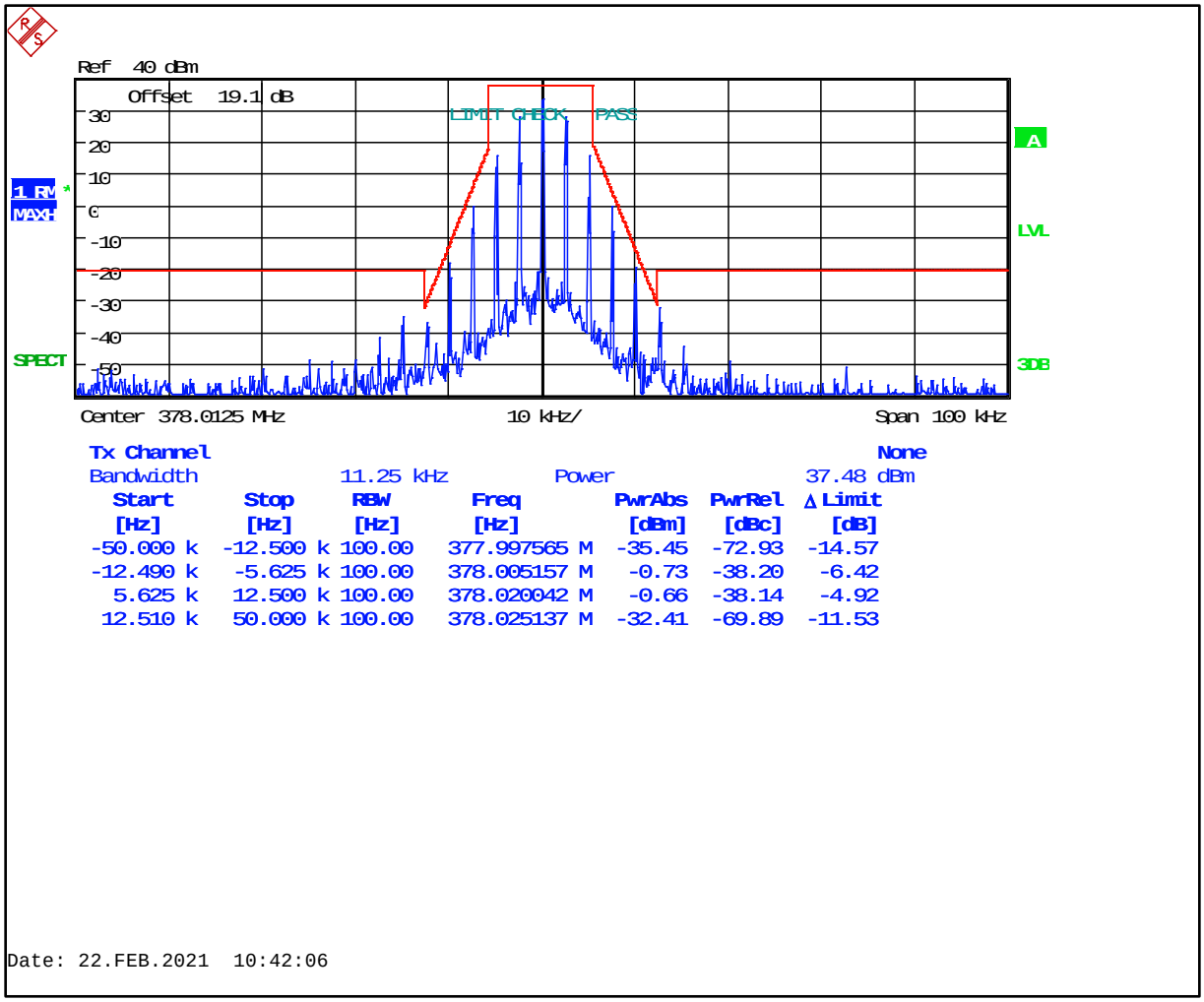
Plot 8-37: Occupied Bandwidth – 162.0125 MHz; Narrowband Analog; Mask D



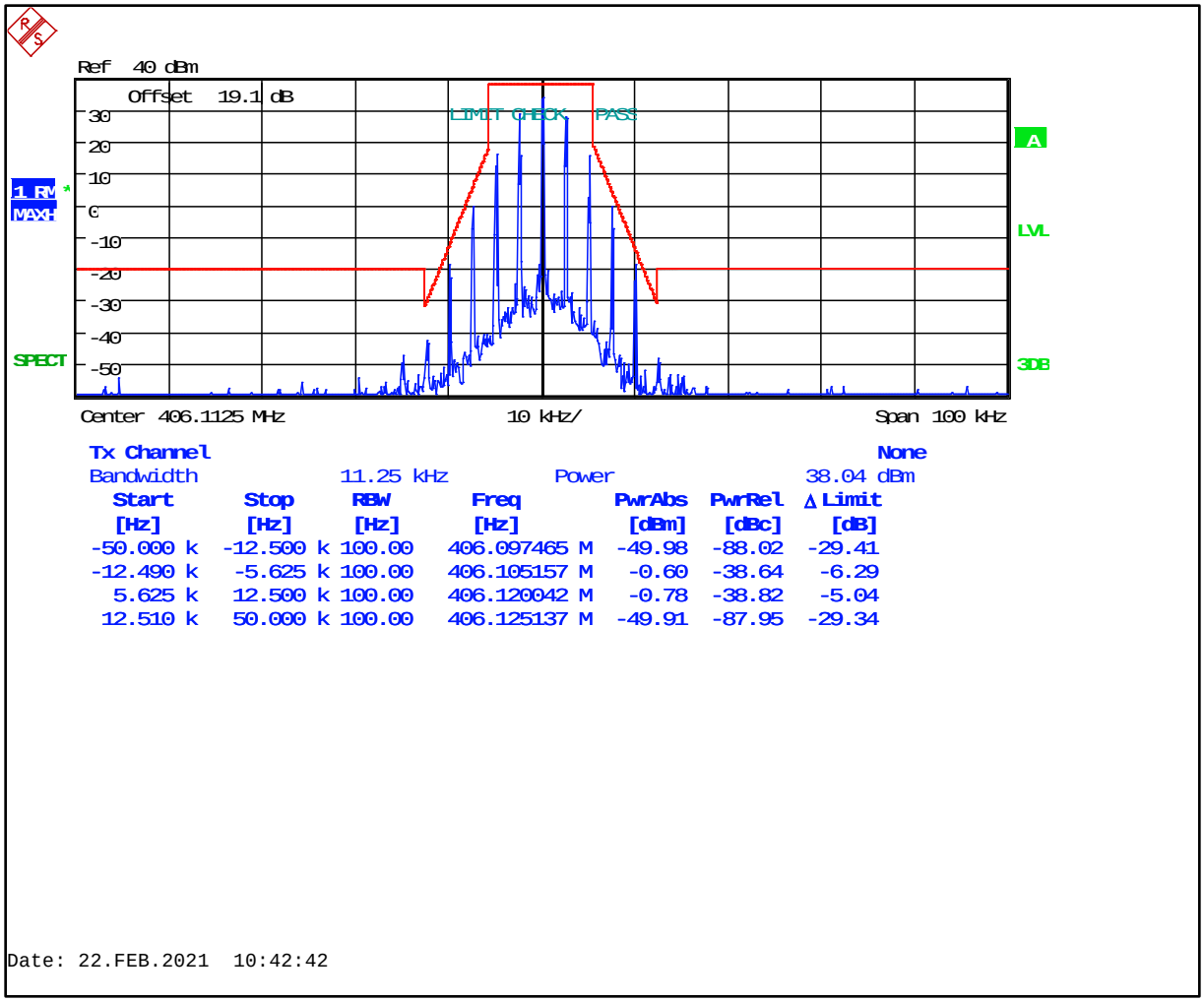
Plot 8-38: Occupied Bandwidth – 173.9875 MHz; Narrowband Analog; Mask D



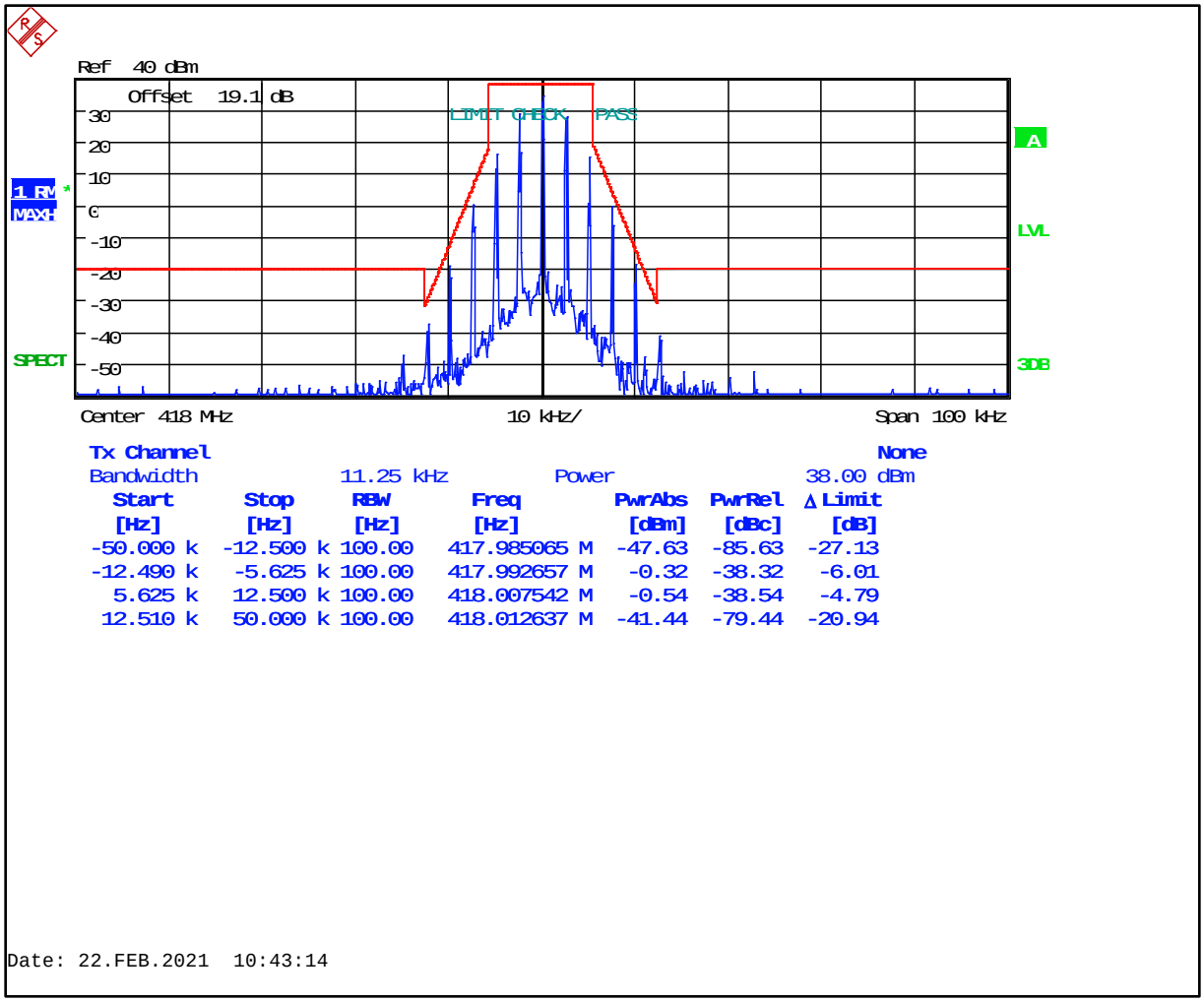
Plot 8-39: Occupied Bandwidth – 378.0125 MHz; Narrowband Analog; Mask D



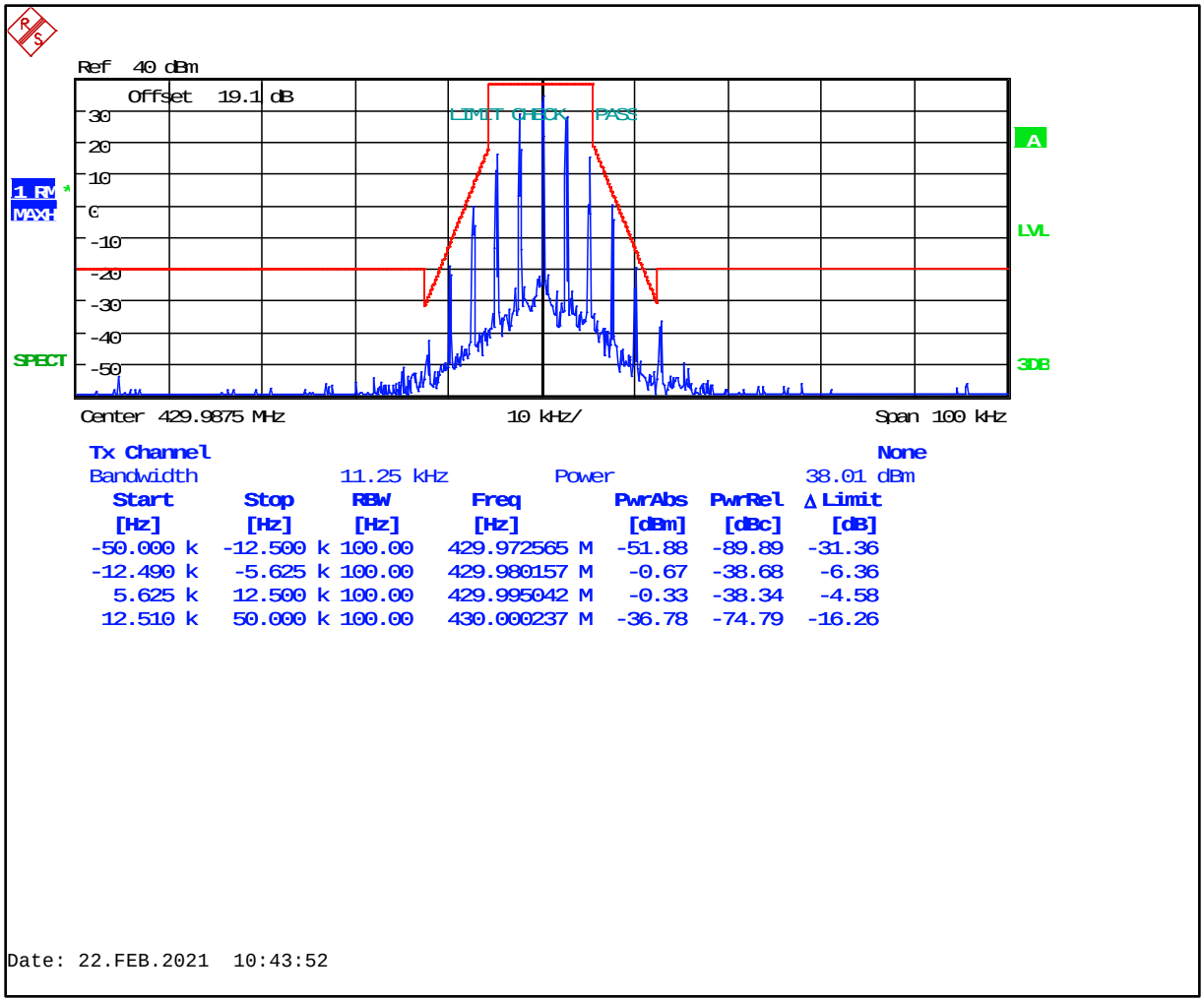
Plot 8-40: Occupied Bandwidth – 406.1125 MHz; Narrowband Analog; Mask D



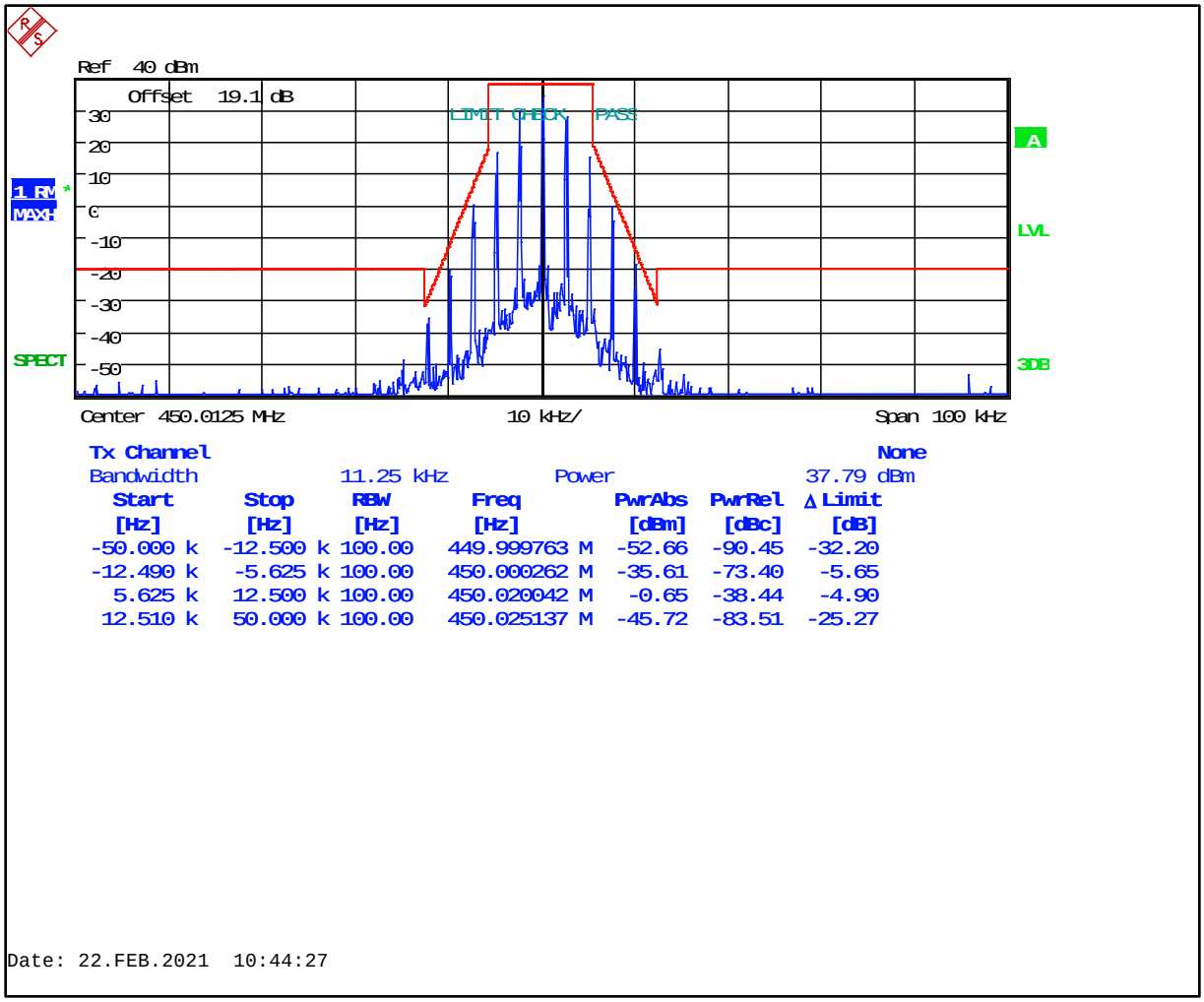
Plot 8-41: Occupied Bandwidth – 418.0000 MHz; Narrowband Analog; Mask D



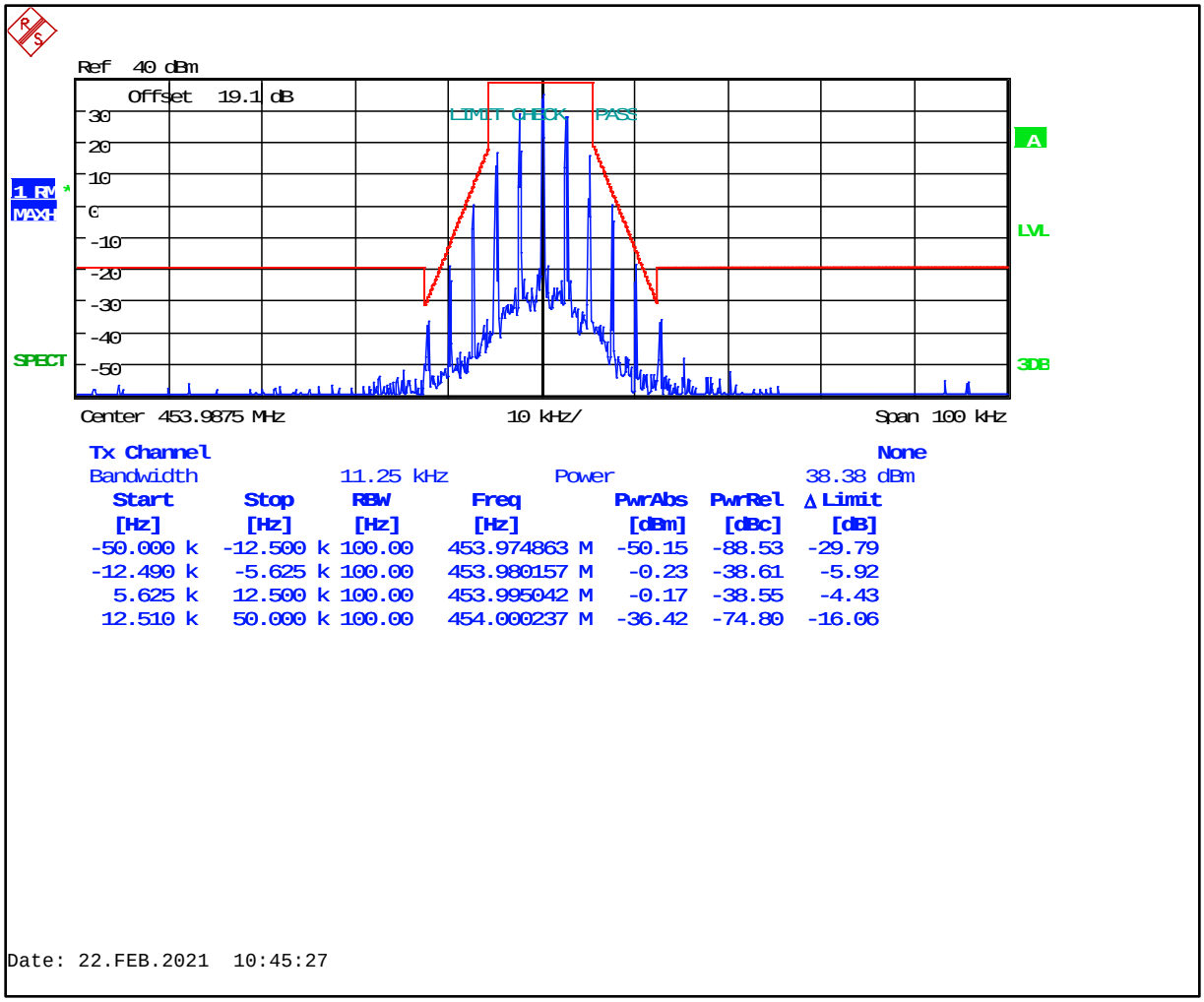
Plot 8-42: Occupied Bandwidth – 429.9875 MHz; Narrowband Analog; Mask D



Plot 8-43: Occupied Bandwidth – 450.0125 MHz; Narrowband Analog; Mask D



Plot 8-44: Occupied Bandwidth – 453.9875 MHz; Narrowband Analog; Mask D



Plot 8-45: Occupied Bandwidth – 456.0125 MHz; Narrowband Analog; Mask D