



Engineering Solutions & Electromagnetic Compatibility Services

FCC & ISED Certification Report

**L3Harris Corporation
221 Jefferson Ridge Parkway
Lynchburg, VA 24501**

**Model: XL-85M 7/800 MHz
Land Mobile Radio**

**FCC ID: OWDTR-0170-E
IC: 3636B-0170**

March 20, 2024

Standards Referenced for this Report	
FCC Part 2: 2024	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
FCC Part 90: 2024	Private Land Portable Radio Services
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ISED RSS-119 Issue 12	Land Mobile and Fixed Radio Transmitters and Receivers 27.41 to 960.0 MHz

Report Prepared By: Daniel W. Baltzell

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This report replaces DRAFT R0.4.

*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.*

FCC Equipment Class: TNB

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Transmit Power (W) (Conducted)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	90	763 – 776	30.0	0.4	16K0F3E	Analog FM (Wideband)
EF	90	793 – 806	30.0	0.4	16K0F3E	
EF	90	806 – 825	35.0	0.4	16K0F3E	
EF	90	851 – 870	35.0	0.4	16K0F3E	
EF	90	763 – 776	30.0	0.4	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF	90	793 – 806	30.0	0.4	16K0F1D/E	
EF	90	806 – 825	35.0	0.4	16K0F1D/E	
EF	90	851 – 870	35.0	0.4	16K0F1D/E	
EF	90	763 – 776	30.0	0.4	14K0F3E	Analog FM (NPSPAC)
EF	90	793 – 806	30.0	0.4	14K0F3E	
EF	90	806 – 825	35.0	0.4	14K0F3E	
EF	90	851 – 870	35.0	0.4	14K0F3E	
EF	90	763 – 776	30.0	0.4	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	90	793 – 806	30.0	0.4	14K0F1D/E	
EF	90	806 – 825	35.0	0.4	14K0F1D/E	
EF	90	851 – 870	35.0	0.4	14K0F1D/E	
EF	90	763 – 776	30.0	0.4	11K0F3E	Analog FM (Narrowband)
EF	90	793 – 806	30.0	0.4	11K0F3E	
EF	90	806 – 825	35.0	0.4	11K0F3E	
EF	90	851 – 870	35.0	0.4	11K0F3E	
EF	90	763 – 776	30.0	0.4	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF	90	793 – 806	30.0	0.4	11K7F1D/E	
EF	90	806 – 825	35.0	0.4	11K7F1D/E	
EF	90	851 – 870	35.0	0.4	11K7F1D/E	

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Transmit Power (W) (Conducted)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	90	763 – 776	30.0	0.4	8K40F1D/E	C4FM Data/Voice
EF	90	793 – 806	30.0	0.4	8K40F1D/E	
EF	90	806 – 825	35.0	0.4	8K40F1D/E	
EF	90	851 – 870	35.0	0.4	8K40F1D/E	
EF	90	763 – 776	30.0	0.4	8K10DXW	H-CPM (TDMA) Data/Voice
EF	90	793 – 806	30.0	0.4	8K10DXW	
EF	90	806 – 825	35.0	0.4	8K10DXW	
EF	90	851 – 870	35.0	0.4	8K10DXW	
EF	90	763 – 776	30.0	0.4	18K5F1W	HVD-SMR
EF	90	793 – 806	30.0	0.4	18K5F1W	
EF	90	806 – 825	35.0	0.4	18K5F1W	
EF	90	851 – 870	35.0	0.4	18K5F1W	
EF	90	763 – 776	30.0	0.4	12K9F1W	HVD-NPSPAC
EF	90	793 – 806	30.0	0.4	12K9F1W	
EF	90	806 – 825	35.0	0.4	12K9F1W	
EF	90	851 – 870	35.0	0.4	12K9F1W	

* power is conducted

This device contains functions 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 the United States or Canada.

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1 Test Result Summary

Test	FCC Reference	ISED Reference	Result
RF Power Output	2.1046(a), 90.541(d)	RSS-119 4.1, 5.4	Complies
Spurious Emissions at Antenna Terminals	2.1051, 90.210	RSS-119 5.5, 5.8	Complies
Field Strength of Spurious Radiation	2.1053(a), 90.210, 90.543(c)	RSS-119 5.5, 5.8	Complies
Occupied Bandwidth/ Emission Masks	2.1049(c)(1), 90.210	RSS-119 5.5, 5.8	Complies
Frequency Stability vs. Temperature and Voltage	2.1055, 90.213, 90.539	RSS-119 5.3	Complies
Modulation Characteristics	2.1047(a)(b)	RSS-119 5.2	Complies

2 General Information

The following Certification Report is prepared on behalf of L3Harris Corporation in accordance with the Federal Communications Commission and ISED Canada rules and regulations. The Equipment Under Test (EUT) was the XL-85M 7/800 MHz Land Mobile Radio, FCC ID: OWDTR-0170-E, IC: 3636B-0170 (HVIN: XLM-85M-7/8).

The radio is subject to FCC SDoC. SDoC testing was performed and the data is contained in a separate SDoC report.

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 EUT Exercise Description

The EUT was supplied with the ability to change LMR, Bluetooth, and Wi-Fi frequencies for testing radiated emissions and collocation of various frequencies. Note that the EUT can utilize the following modularly approved transceiver. Simultaneous transmissions were tested for both EMC and SAR.

Texas Instruments Inc.
FCC ID: Z64-WL18DBMOD
IC: 4511-WL18DBMOD

The EUT was tested in all three orthogonal planes in order to determine worst case emissions. EUT software version R18A03.0074 allows the tester to enable continuous transmit during testing.

The carrier was also checked to verify that information was being transmitted. There were no deviations from the test standards(s) and/or methods. The test results reported relate only to the item tested.

The EUT was configured for testing in a manner simulating a typical end-user configuration. All circuitry, clocks, and oscillators were powered, and all functions were active. Applicable I/O ports to be cabled or loaded included Ethernet and data programming cables. For testing purposes, the EUT was programmed using a generic programming board.

2.2 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.

CAB ID: US0079

2.3 Related Submittal(s)/Grant(s)

This is an original certification application for Harris Corporation Model XL-85M 7/800 MHz Land Mobile Radio, FCC ID: OWDTR-0170-E, IC: 3636B-0170 (HVIN: XLM-85M-7/8).

2.4 Grant Notes

RF power switchable from 2 W to rated power of 35 W.

Manufacturer's rated power: 30 W for 700 MHz band and 35 W for 800 MHz band.

2.5 Tested System Details

The test sample was received on January 22, 2024. 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 / HVIN	PN/SN	FCC ID / IC	RTL Bar Code
Mobile Radio	L3Harris Corporation	XL-85M, 7/800 MHz / XLM-85M-7/8	14050-1100-31	OWDTR-0170-E / 3636B-0170	24399

Table 2-2: EUT Auxiliary Equipment

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
USB Mobile Mic	L3Harris Corporation	USB Mobile Mic	14050-6010-01	N/A	24401
External Mobile Speaker	L3Harris Corporation	External Mobile Speaker	14050-6100-01	N/A	24400
Antenna, Yagi, 700 MHz, 10 dB	L3Harris Corporation	AN-025137-007	AN-025137-007	N/A	23366
Antenna, Yagi, 800 MHz, 10 dB	L3Harris Corporation	AN-025137-008	AN-025137-008	N/A	23405

Table 2-3: XL-85M 7/800 MHz Antennas and Mics

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
Antenna, Yagi, 700/800 MHz, 6.5 dB	L3Harris Corporation	AN-025137-010	AN-025137-010	N/A	23370
Antenna, Element, 700/800 MHz, 3 dB	L3Harris Corporation	AN-225001-001	AN-225001-001	N/A	23356
Antenna, Element, 800/900 MHz, 5 dB	L3Harris Corporation	14050-6611-01	14050-6611-01	N/A	23345
Antenna, Element, 800/900 MHz, 3 dB	L3Harris Corporation	14050-6610-01	14050-6610-01	N/A	23349
Antenna, Mobile, 698-2700 MHz	L3Harris Corporation	N/A	12099-0380-01	N/A	23351
Antenna, Element, Flexible	L3Harris Corporation	14050-6600-01	14050-6600-01	N/A	23353
Antenna, Flex, Heavy-Duty, 136-870 MHz, 0 dBi	L3Harris Corporation	12099-0300-01	12099-0300-01	N/A	N/A
Antenna, Element, 136-870 MHz, 0 dB	L3Harris Corporation	12099-0310-01	12099-0310-01	N/A	N/A
Antenna Base, Standard Roof Mount Low Loss	L3Harris Corporation	AN-125001-002	AN-125001-002	N/A	23385/23386
Antenna Base, Thick Roof Mount Low Loss	L3Harris Corporation	AN-125001-004	AN-125001-004	N/A	23388
Antenna Base, Magnetic Mount Low Loss	L3Harris Corporation	AN-125001-008	AN-125001-008	N/A	23389
Mount, NMO Antenna, Magnetic, Heavy-Duty	L3Harris Corporation	XM-AN7H	12099-0370-01	N/A	23343
XL Mobile Keypad Mic	L3Harris Corporation	14050-6020-01	14050-6020-01	N/A	N/A
XL Mobile Desktop Mic	L3Harris Corporation	Analog Deskmic	MC-014121-003	N/A	23084

2.6 Configuration of Tested System

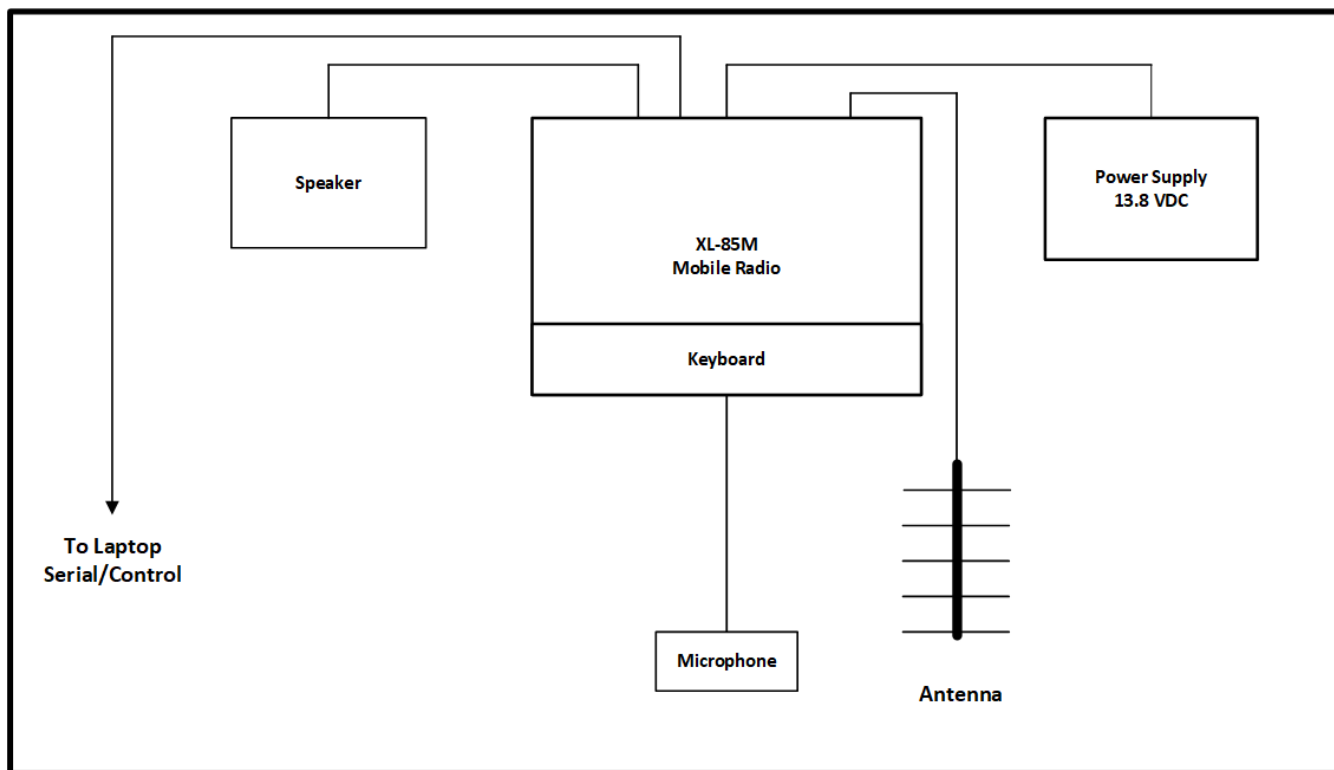


Figure 2-1: Configuration of Tested System

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

Band	Current (Amps)	DC Voltage (Volts)
700	8.0	13.8
800	8.8	13.8

4 FCC Part 2.1046(a): RF power output: Conducted; Part 90.541(d) Transmitting power and antenna height requirements; 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: 30 W for 700 MHz band, 35 W for 800 MHz band.

4.2 Test Data

Table 4-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
01/26/2024	22.1	34	100.3

Table 4-2: RF Conducted Output Power – Measured

Frequency (MHz)	High Power (dBm)	High Power (W)	Low Power (dBm)	Low Power (W)
763.0125	44.6	28.8	32.9	2.0
764.0125	44.4	27.5	32.9	2.0
768.0125	44.3	26.9	32.3	1.7
769.0125	44.5	28.2	32.8	1.9
772.0000	44.5	28.2	32.9	2.0
774.9875	44.3	26.9	32.6	1.8
775.9875	44.3	26.9	32.6	1.8
793.0125	44.7	29.5	32.9	2.0
794.0125	44.6	28.8	33.1	2.0
798.0125	44.6	28.8	32.9	2.0
799.0125	44.4	27.5	32.7	1.9
801.0000	44.4	27.5	32.7	1.9
804.9875	44.4	27.5	32.7	1.9
805.9875	44.3	26.9	32.6	1.8
806.0125	45.1	32.4	32.7	1.9
815.0000	45.2	33.1	32.8	1.9
823.9875	45.4	34.7	33.0	2.0
824.9875	45.1	32.4	32.7	1.9
851.0125	45.1	32.4	32.7	1.9
860.0000	44.9	30.9	32.4	1.7
868.9875	45.1	32.4	32.7	1.9
869.9875	45.1	32.4	32.6	1.8

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

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 4-3: 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	12/01/2024
901724	API Weinschel, Inc.	48-40-34	40dB 100W Attenuator	CJ8921	11/22/2024

Test Personnel:

Daniel W. Baltzell		January 26, 2024
EMC Test Engineer	Signature	Date of Test

5 FCC Part 2.1051: Spurious Emissions at Antenna Terminals; Part 90.210: 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

Table 5-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
01/26/2024	22.1	34	100.3

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

Limits: (43+10LOG P(W)) for wideband and 50 + 10 LOG P(W)) for narrowband

The following channels (in MHz) were investigated:

700 MHz	800 MHz
763.0125	806.0125
764.0125	815.0000
768.0125	823.9875
769.0125	824.9875
772.0000	851.0125
774.9875	860.0000
775.9875	868.9875
793.0125	869.9875
794.0125	
798.0125	
799.0125	
802.0000	
804.9875	
805.9875	

Both high and low power settings were checked; high power was found to be worst case. All modes were investigated and no emissions were found within 20 dB below the limit, therefore no data is presented.

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 5-2: Test Equipment Used For Testing Spurious Emissions

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901672	Rohde & Schwarz	FSEM30	Spectrum Analyzer	FSEM30	04/25/2024
901724	API Weinschel, Inc.	48-40-34	40 dB 100W Attenuator	CJ8921	11/22/2024
901132	Par Electronics	806-902 (25W)	UHF Notch Filter	N/A	11/28/2024

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	January 26, 2024 Date of Test
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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 768-776 MHz and 798-806 MHz

Effective October 23, 2007, 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. Transmitters operating in the 763–768 MHz and 793–798 MHz bands must meet the emission limitations in (e) of this section.

6.1 Test Procedure

ANSI C63.26, Section 6.5.2.4

Adjacent channel power measurements for equipment operating in the 769 MHz to 775 MHz and 799 MHz to 805 MHz (public safety) bands.

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

For a Mobile 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 Mobile 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 the 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.

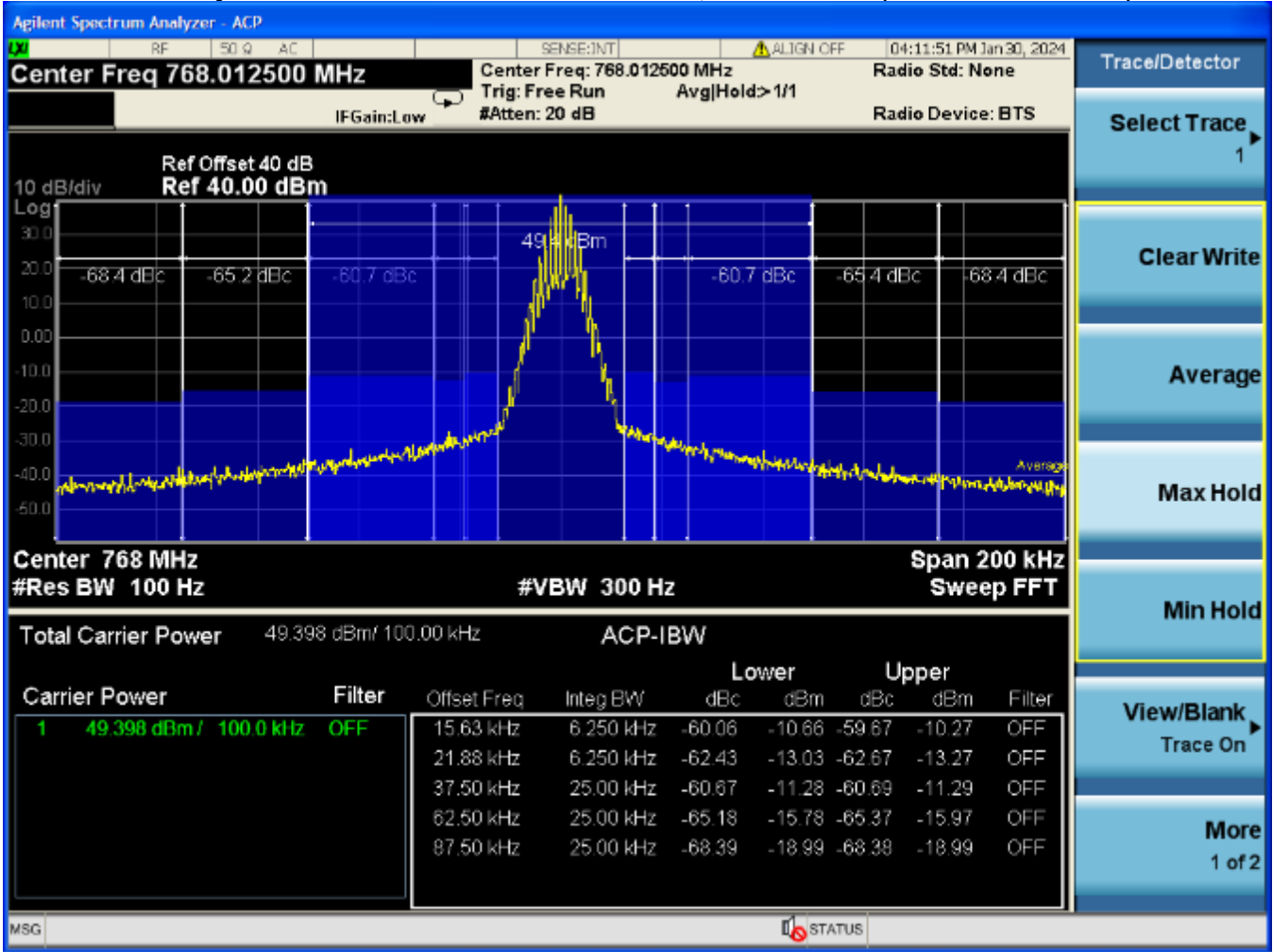
Measuring the power level at the frequency offset >600 kHz - §90.543(b)(3): Set the spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and sample detection mode. Sweep +/-6 MHz from the carrier frequency. Set the reference level to the RMS value of the transmitter power and note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

6.2 Test Data

Table 6-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
01/30/2024	22.3	19	100.9
01/31/2024	22.5	24	100.7

Plot 6-1: Adjacent Channel Power – 768.012500 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-2: Adjacent Channel Power – 768.012500 MHz; WB ANALOG (150 kHz - 350 kHz)

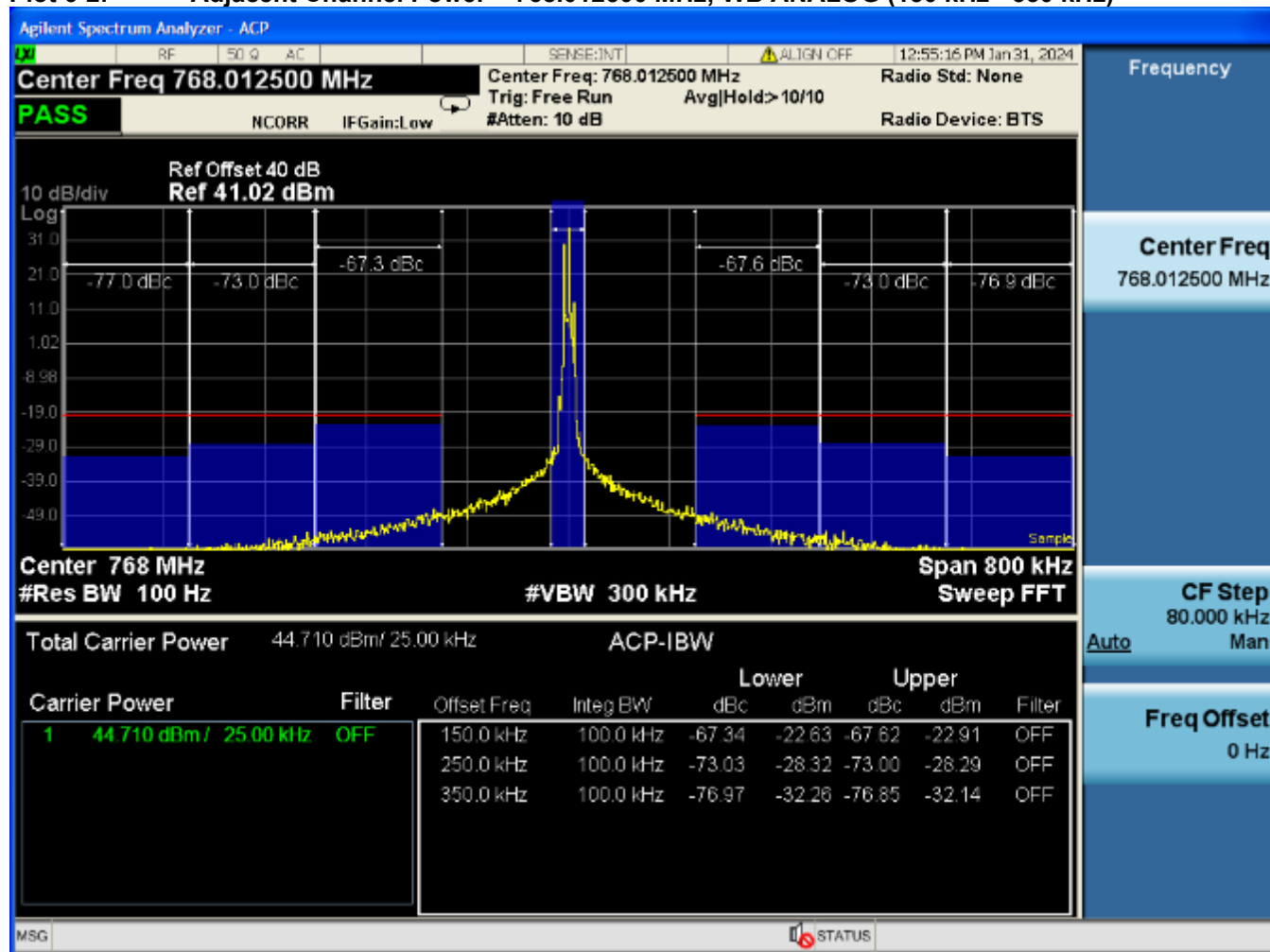
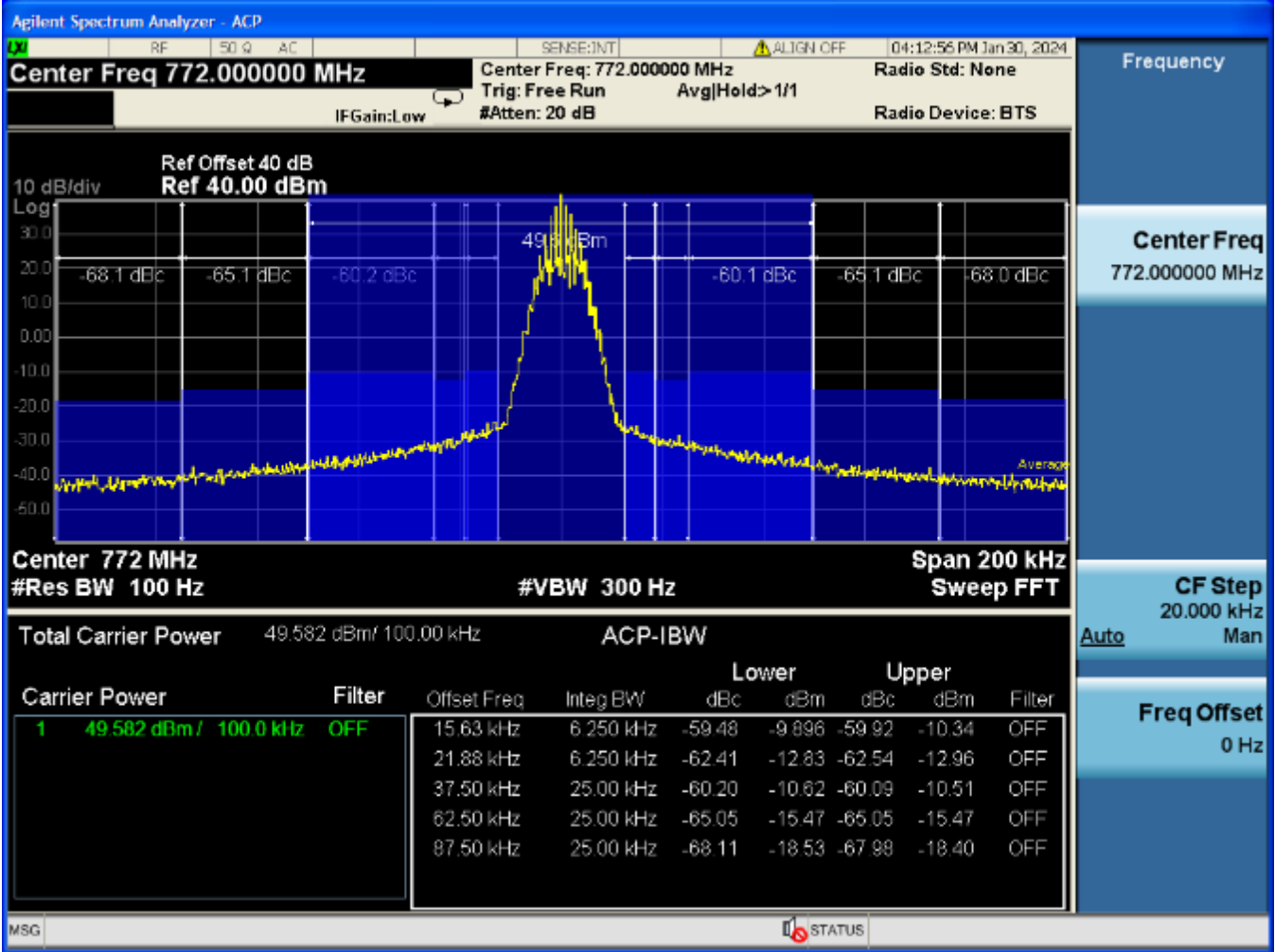


Table 6-2: Adjacent Channel Power – 768.012500 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.0
12 Hz to receive band	30(s)	-75	-99.8
In receive band	30(s)	-100	-101.8

Plot 6-3: Adjacent Channel Power – 772.000000 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-4: Adjacent Channel Power – 772.000000 MHz; WB ANALOG (150 kHz - 350 kHz)

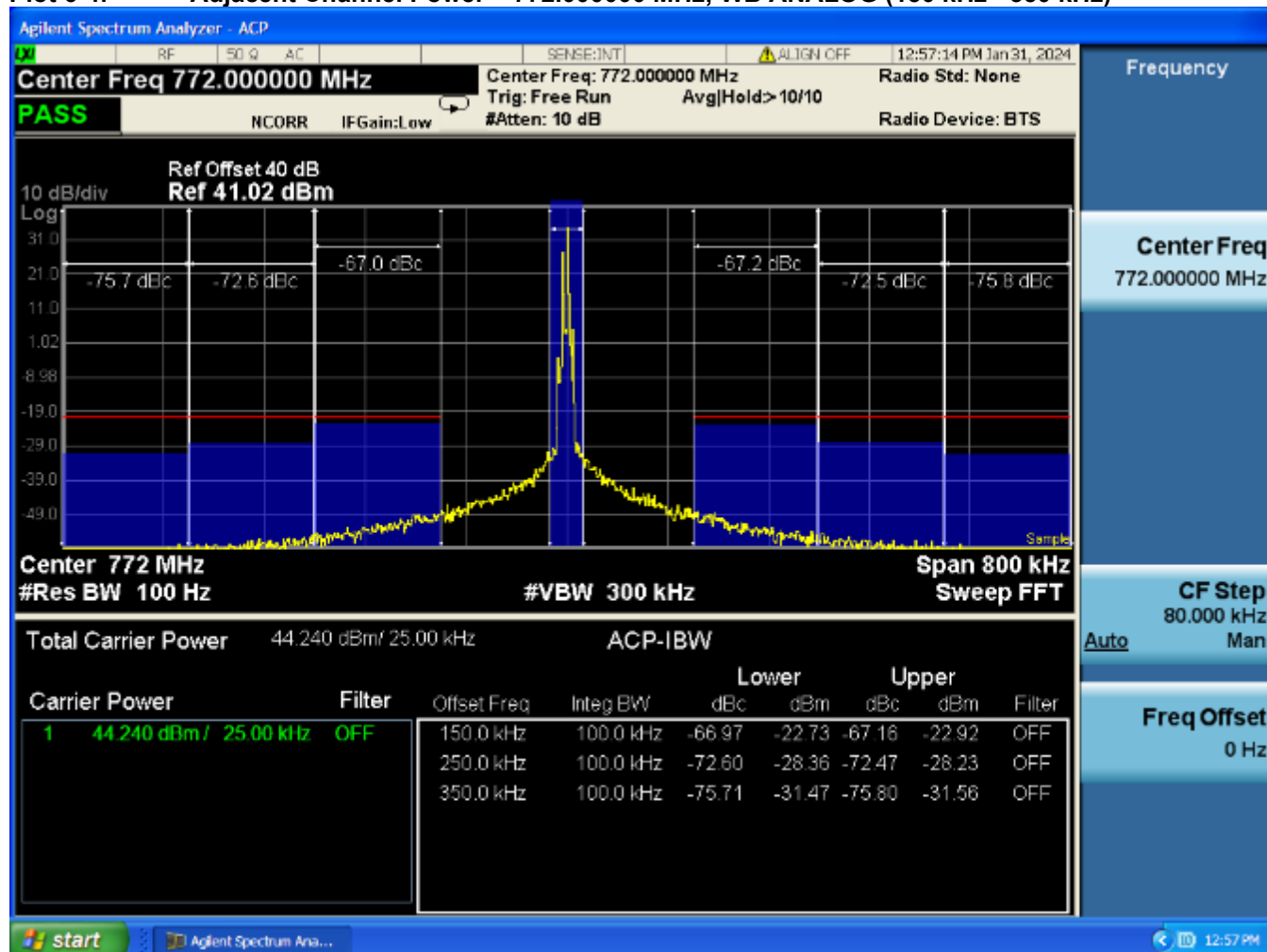
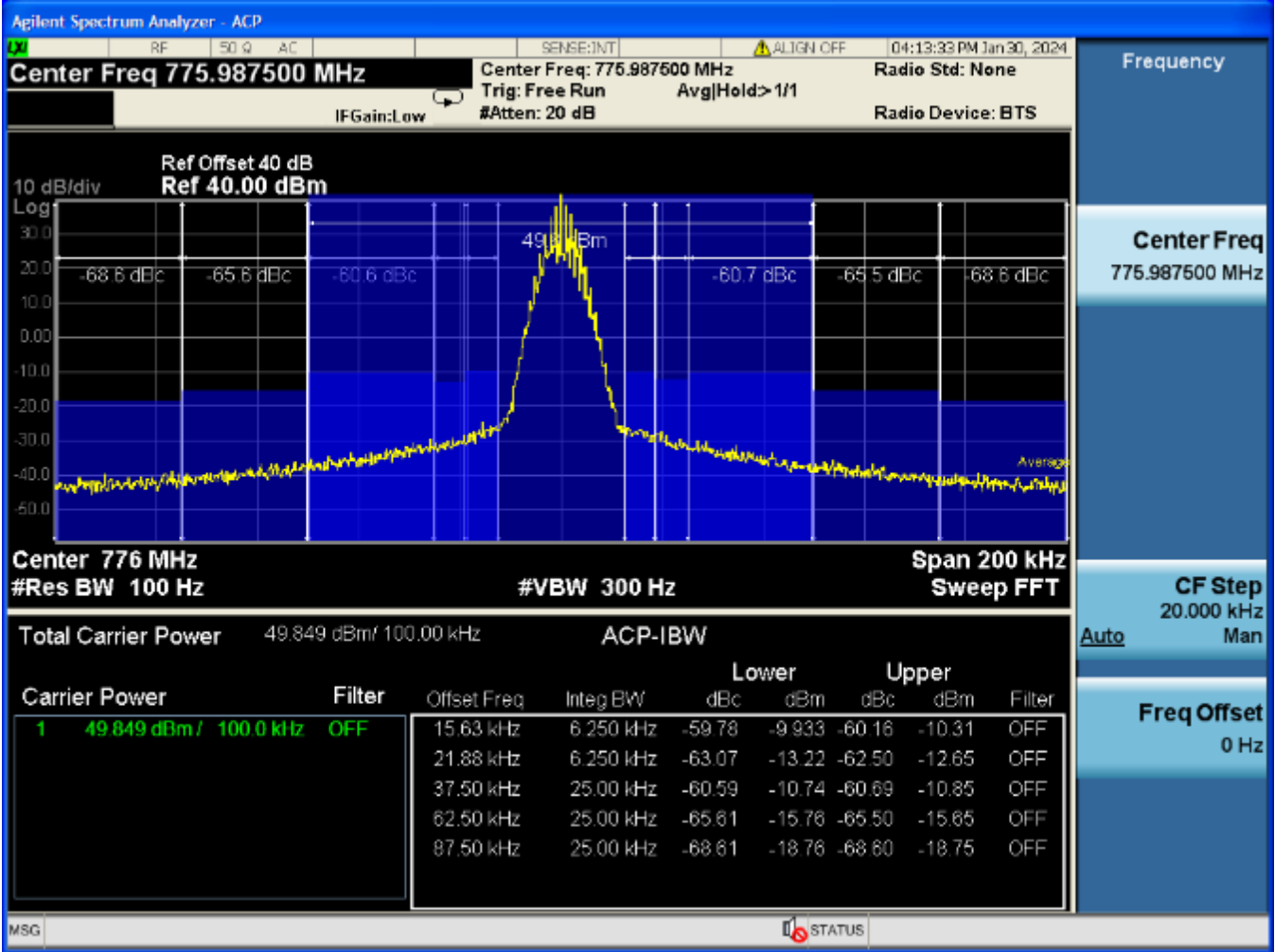


Table 6-3: Adjacent Channel Power – 772.000000 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.3
12 Hz to receive band	30(s)	-75	-99.2
In receive band	30(s)	-100	-101.7

Plot 6-5: Adjacent Channel Power – 775.987500 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-6: Adjacent Channel Power – 775.987500 MHz; WB ANALOG (150 kHz - 350 kHz)

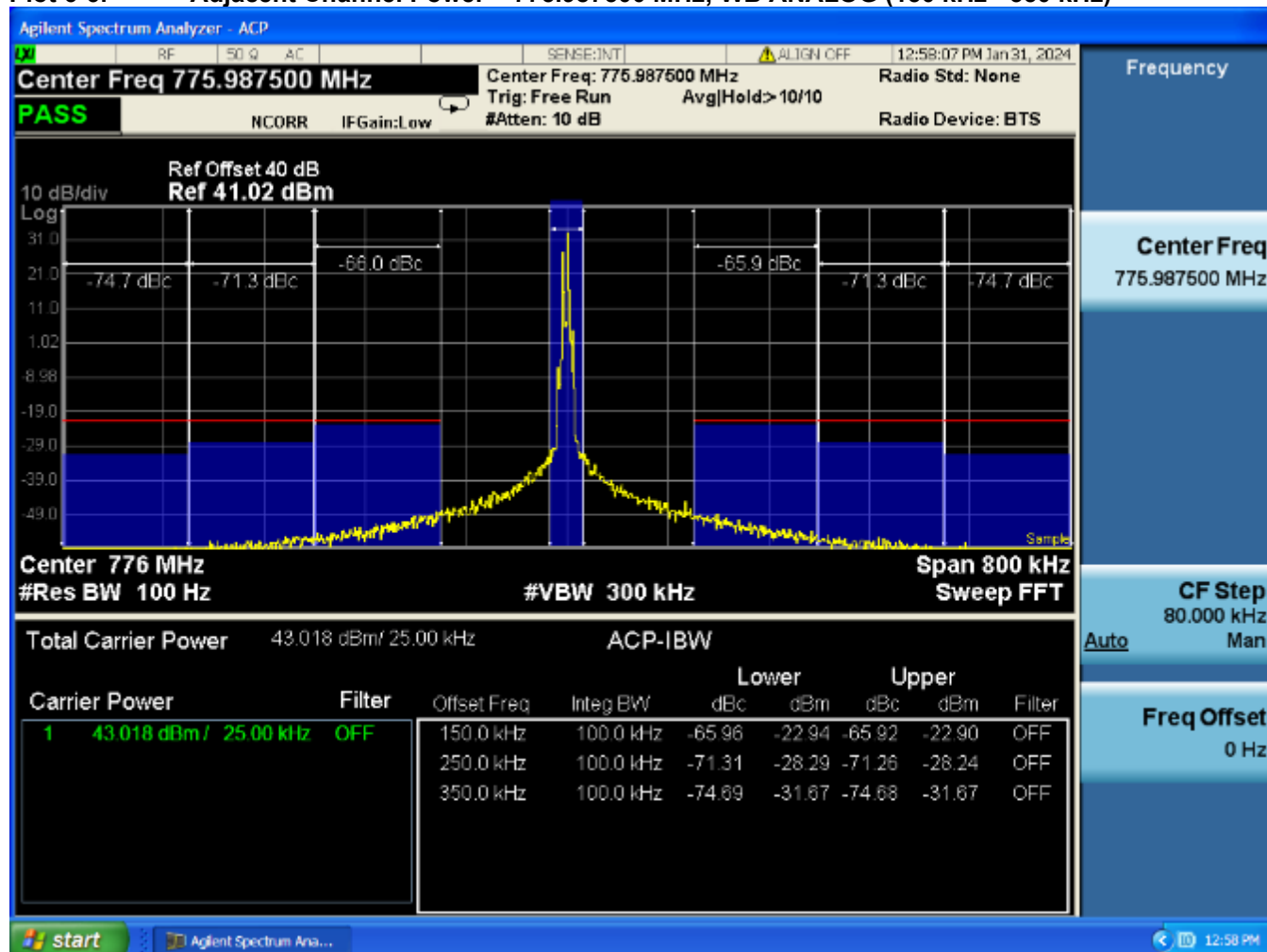
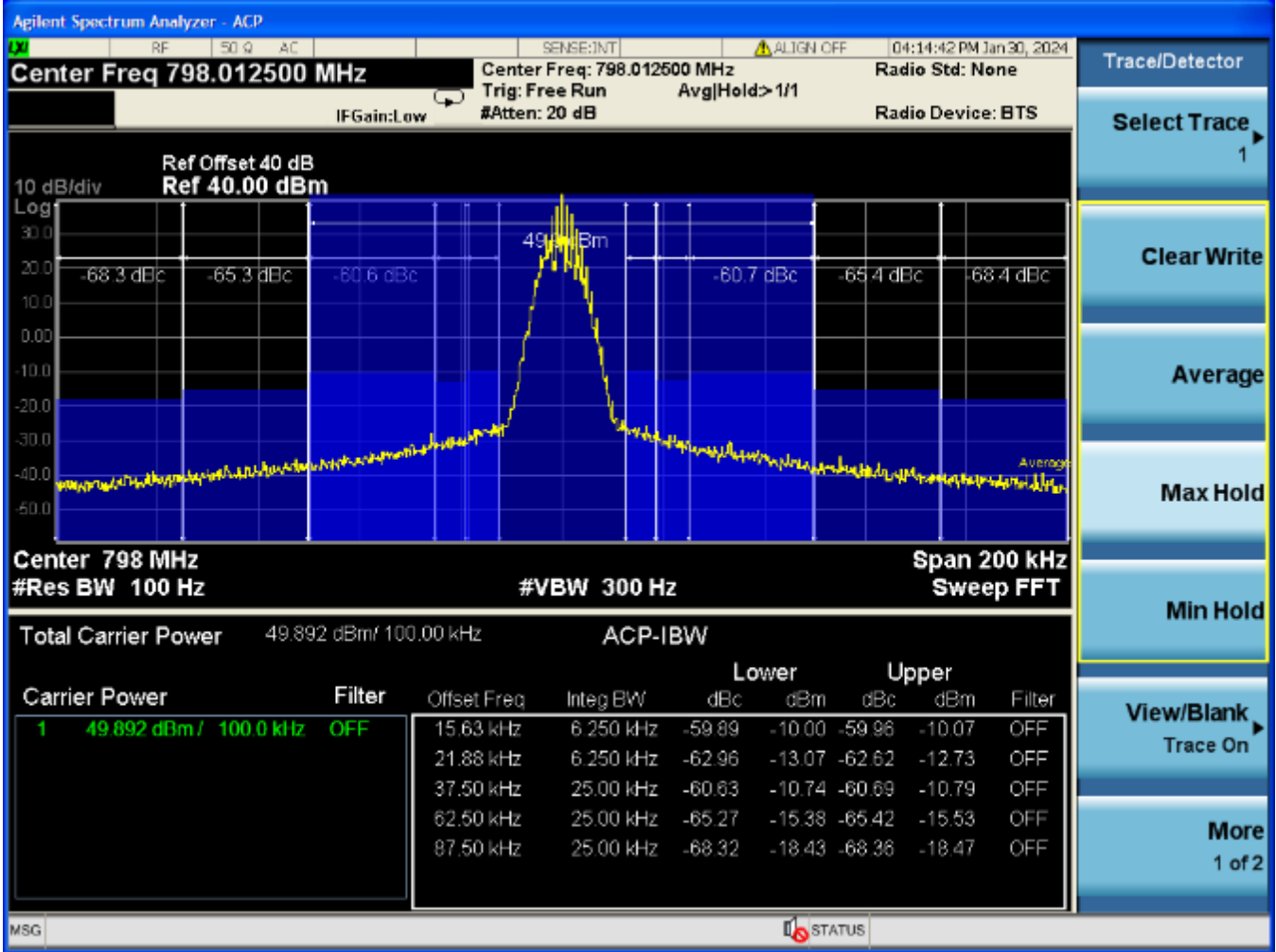


Table 6-4: Adjacent Channel Power – 775.987500 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-85.8
12 Hz to receive band	30(s)	-75	-100.5
In receive band	30(s)	-100	-101.2

Plot 6-7: Adjacent Channel Power – 798.012500 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-8: Adjacent Channel Power – 798.012500 MHz; WB ANALOG (150 kHz - 350 kHz)

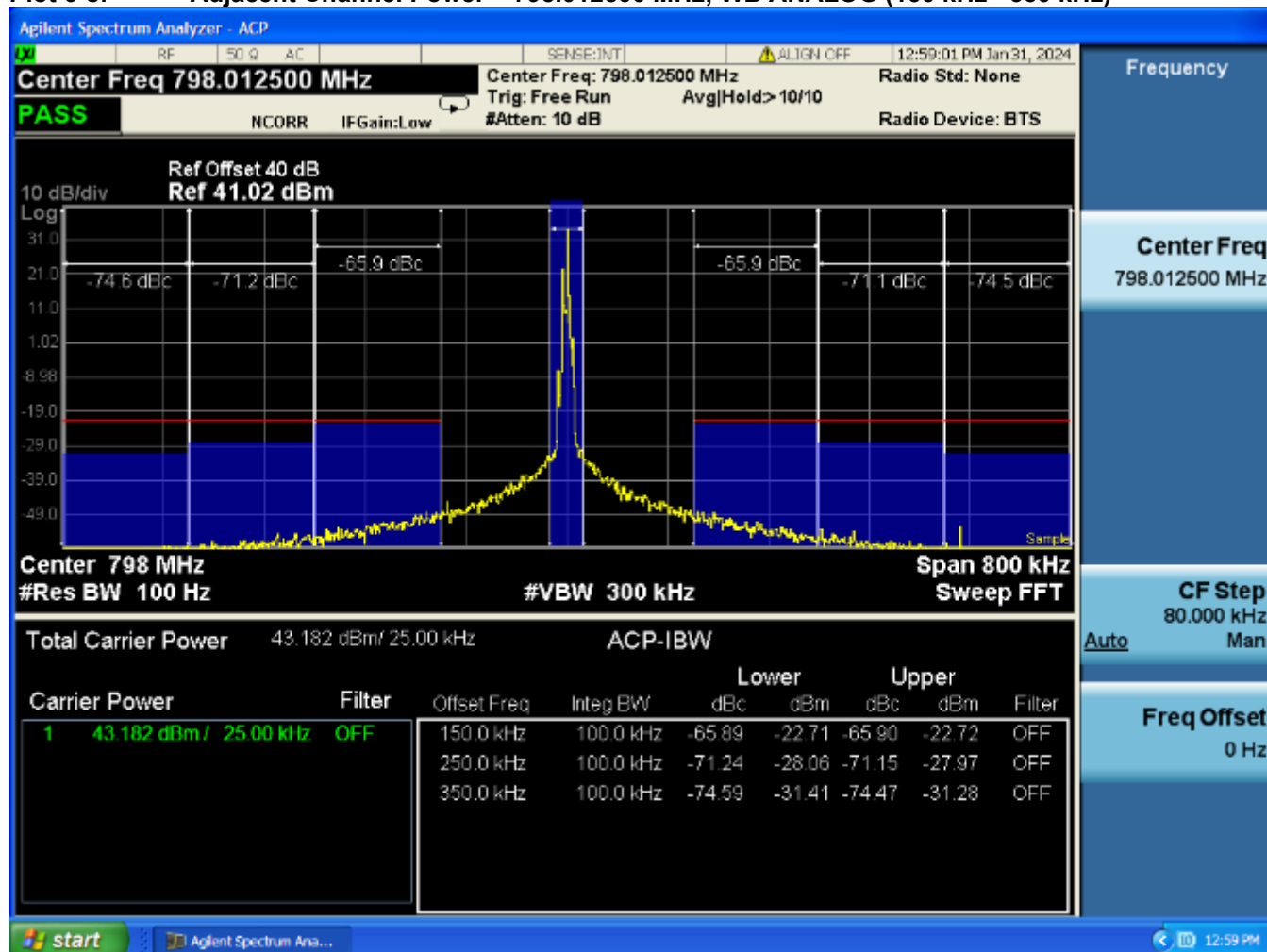
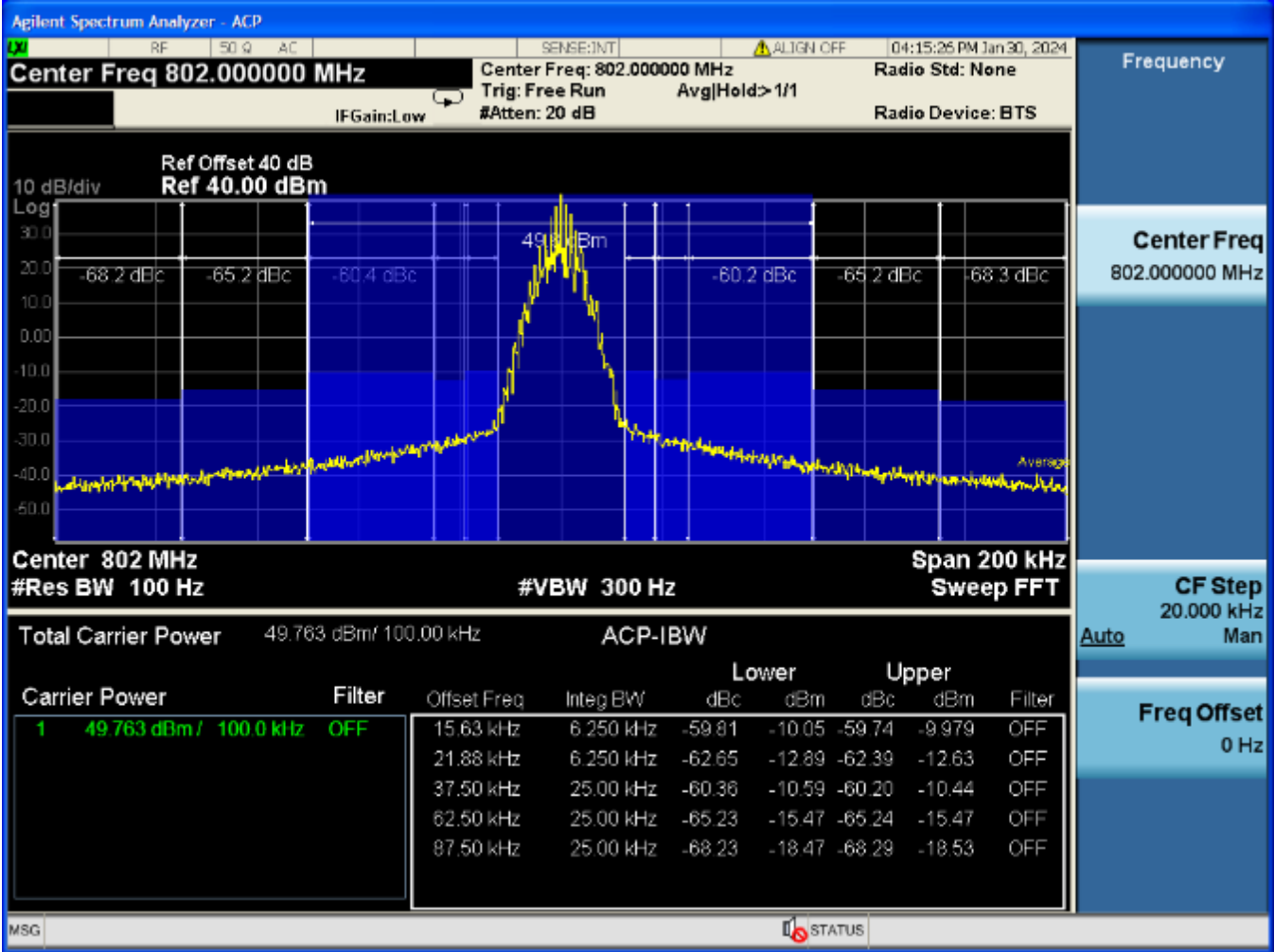


Table 6-5: Adjacent Channel Power – 798.012500 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.9
12 Hz to receive band	30(s)	-75	-100.4
In receive band	30(s)	-100	-101.0

Plot 6-9: Adjacent Channel Power – 802.000000 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-10: Adjacent Channel Power – 802.000000 MHz; WB ANALOG (150 kHz - 350 kHz)

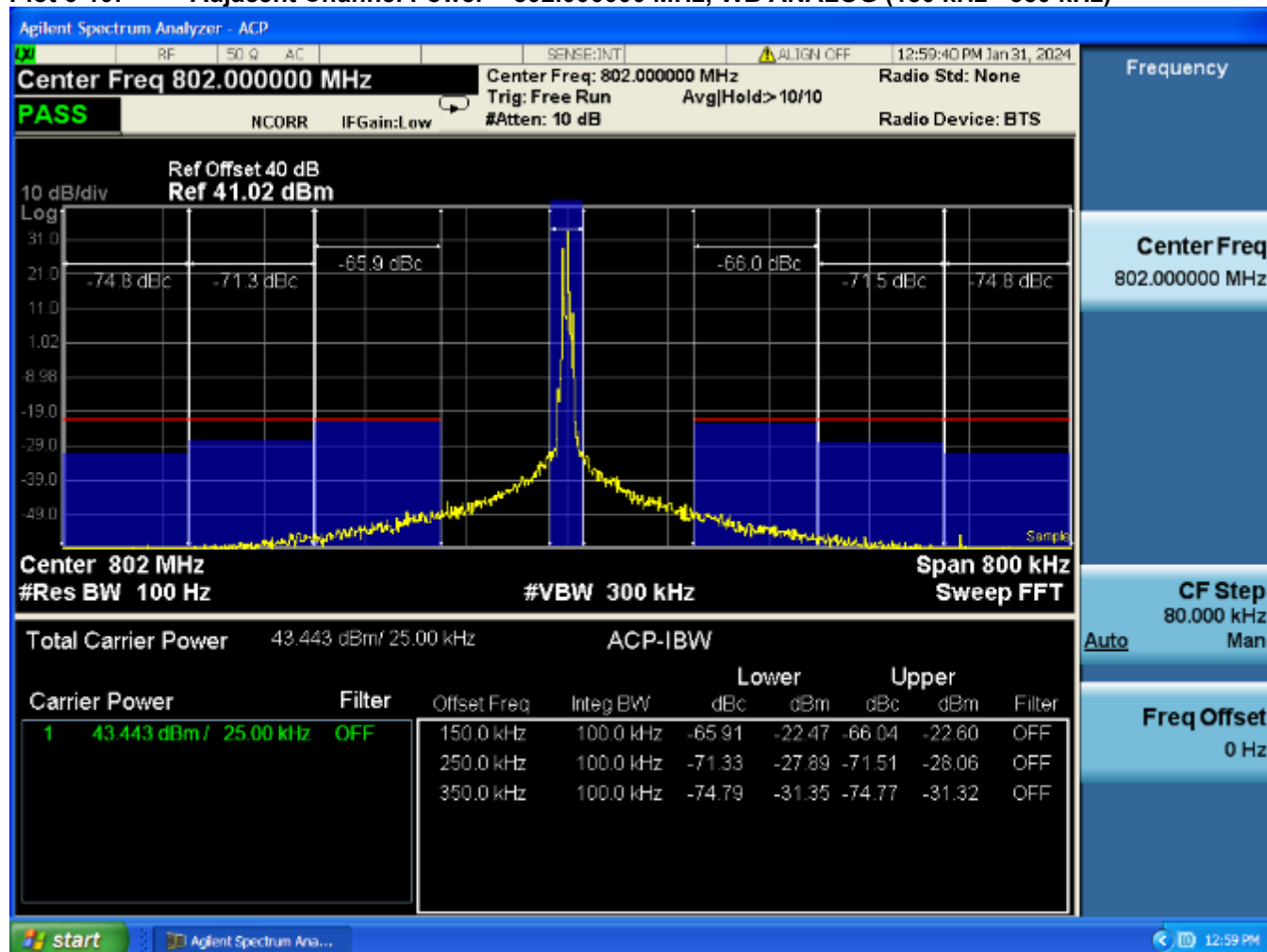
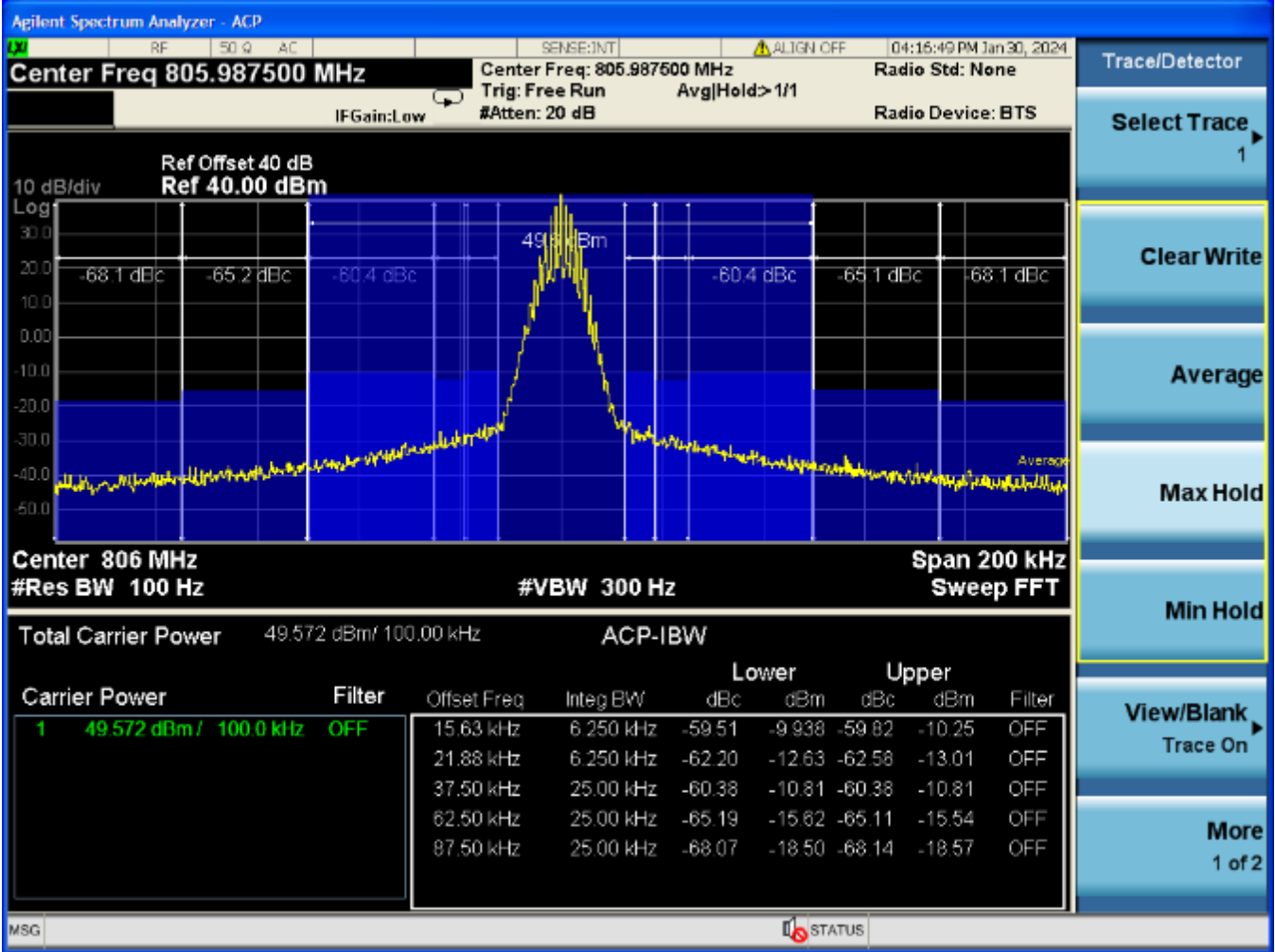


Table 6-6: Adjacent Channel Power – 802.000000 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-87.1
12 Hz to receive band	30(s)	-75	-99.7
In receive band	30(s)	-100	-101.4

Plot 6-11: Adjacent Channel Power – 805.987500 MHz; WB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-12: Adjacent Channel Power – 805.987500 MHz; WB ANALOG (150 kHz - 350 kHz)

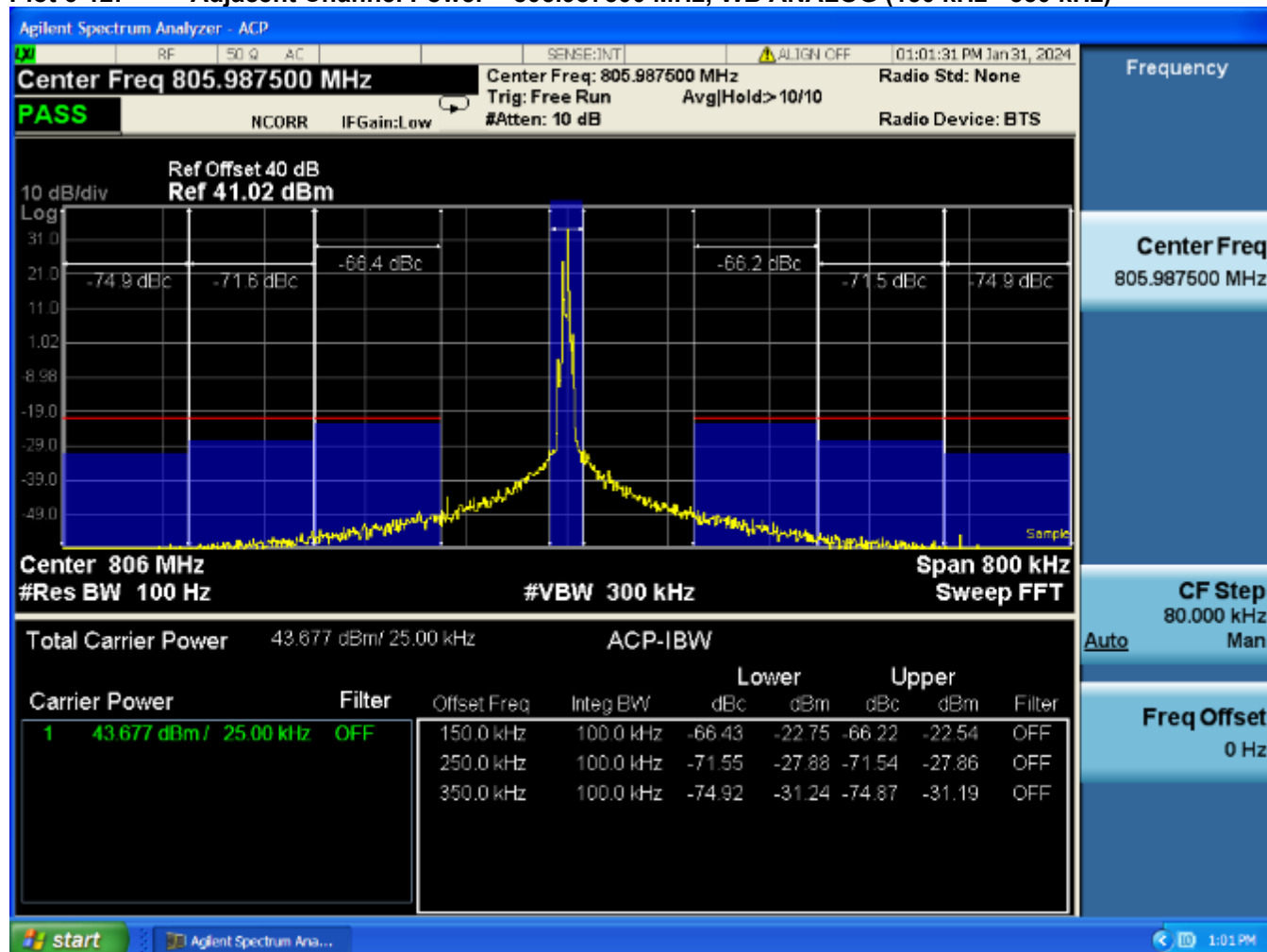
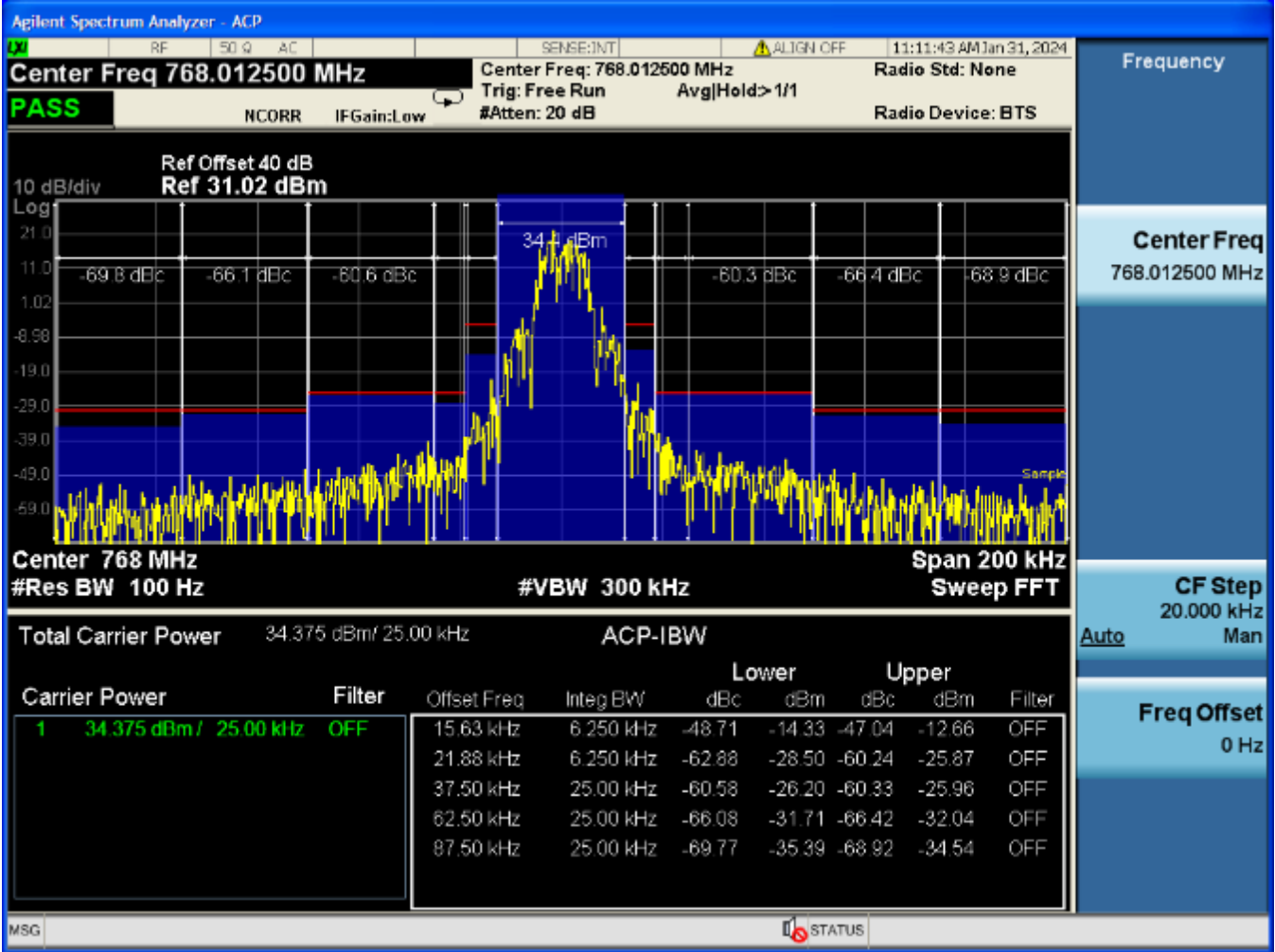


Table 6-7: Adjacent Channel Power – 805.987500 MHz; WB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-87.9
12 Hz to receive band	30(s)	-75	-101.4
In receive band	30(s)	-100	-101.5

Plot 6-13: Adjacent Channel Power – 768.012500 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-14: Adjacent Channel Power – 768.012500 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

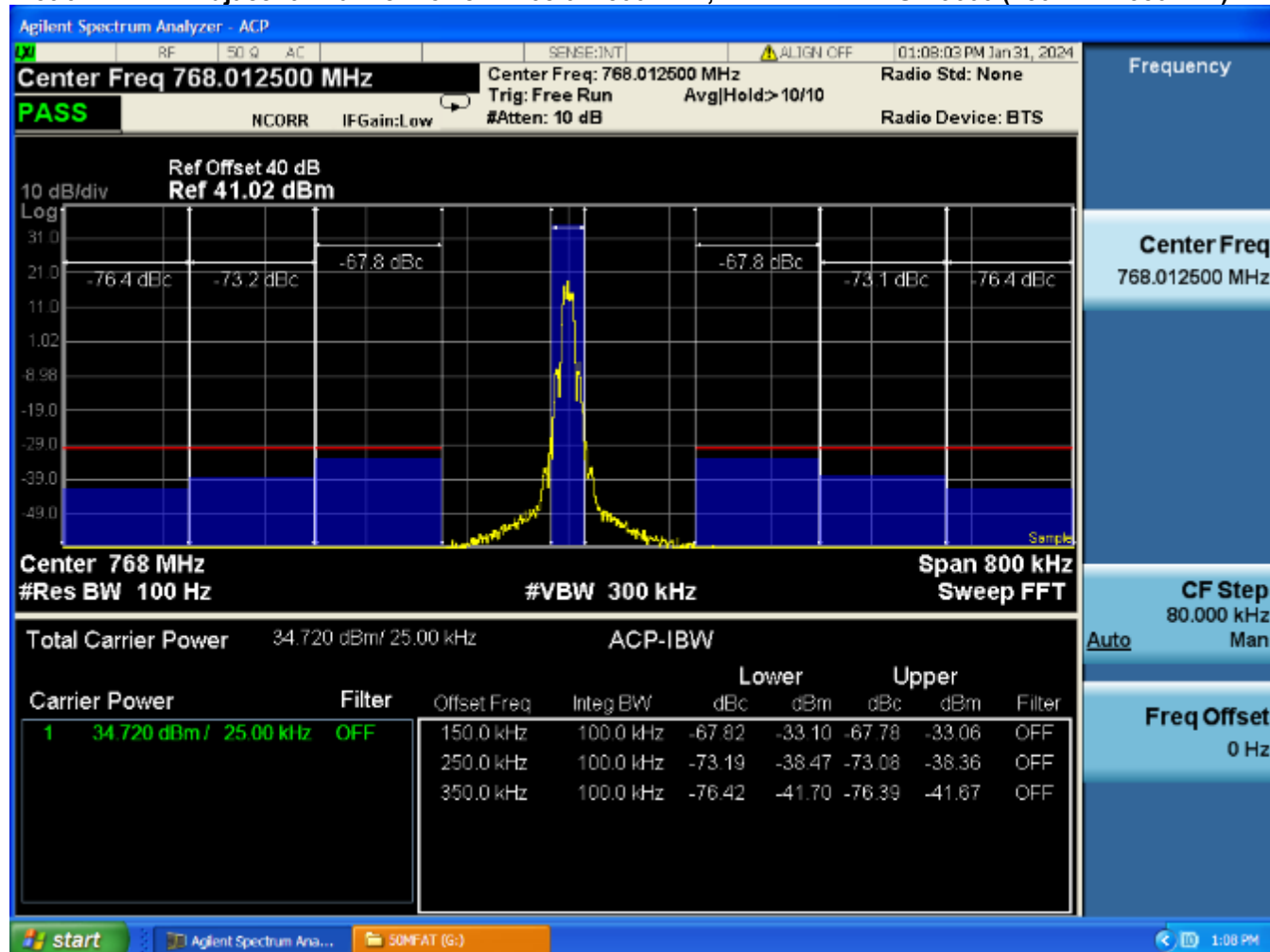
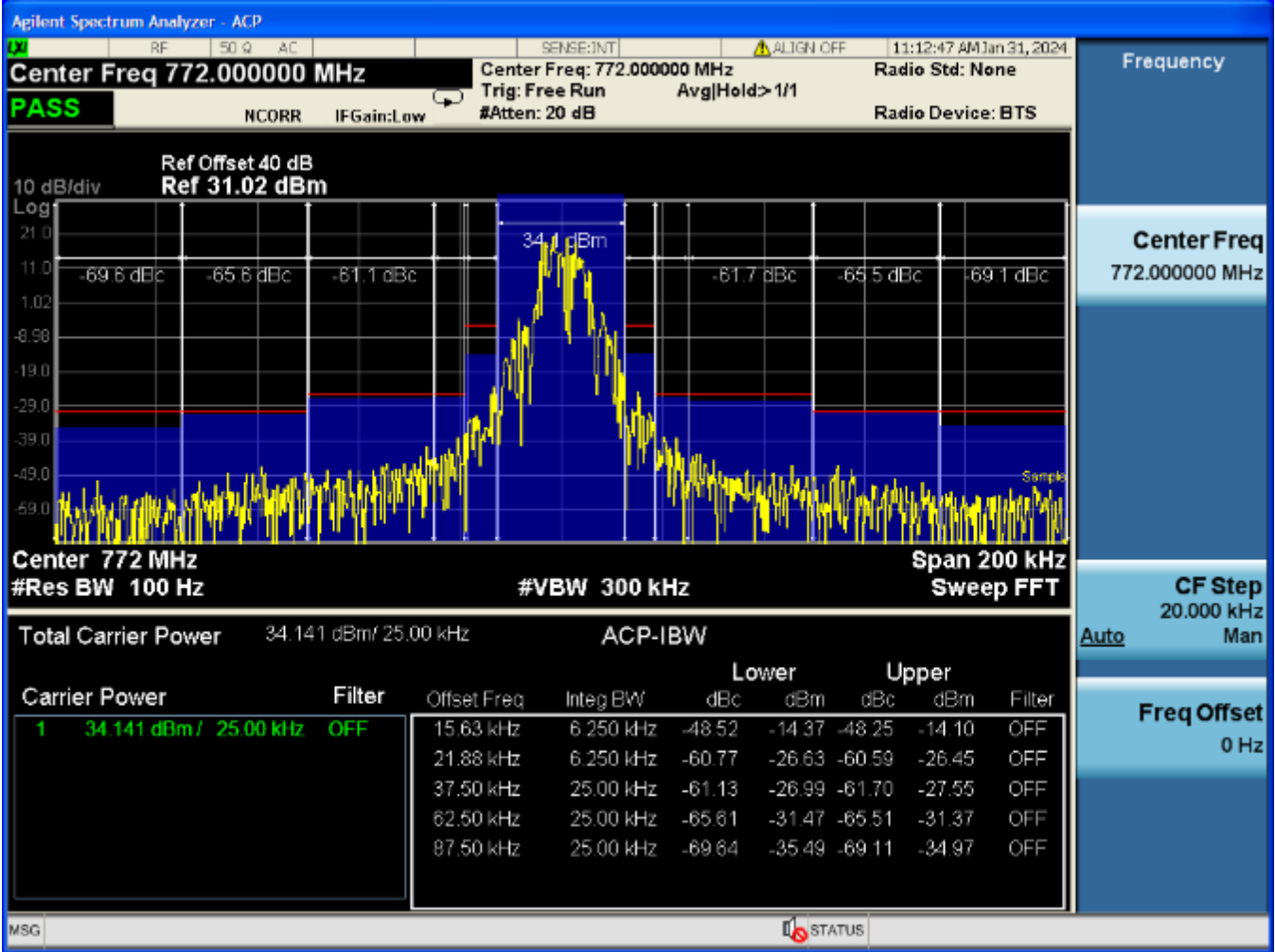


Table 6-8: Adjacent Channel Power – 768.012500 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.6
12 Hz to receive band	30(s)	-75	-104.6
In receive band	30(s)	-100	-107.2

Plot 6-15: Adjacent Channel Power – 772.000000 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-16: Adjacent Channel Power – 772.000000 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

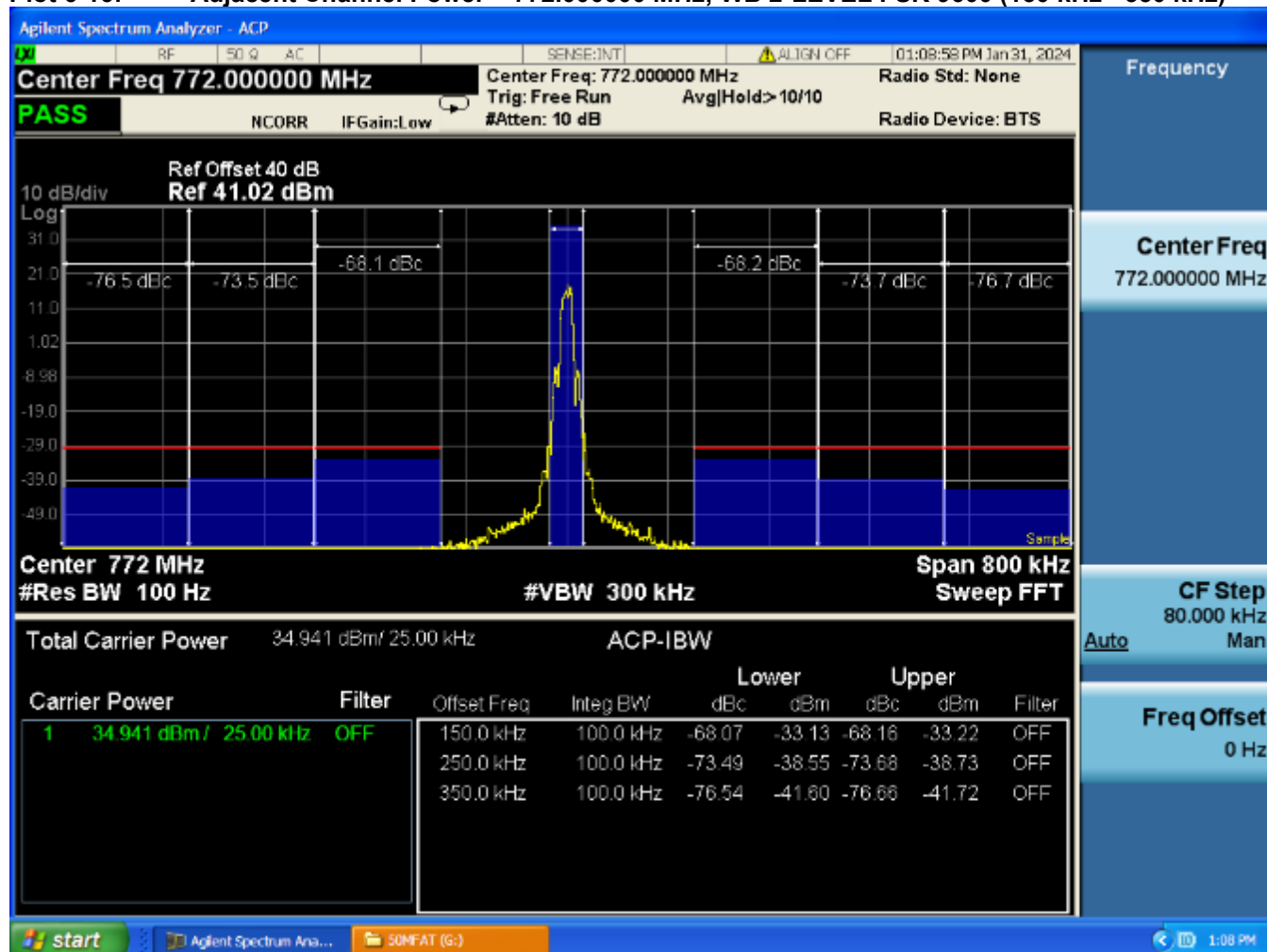
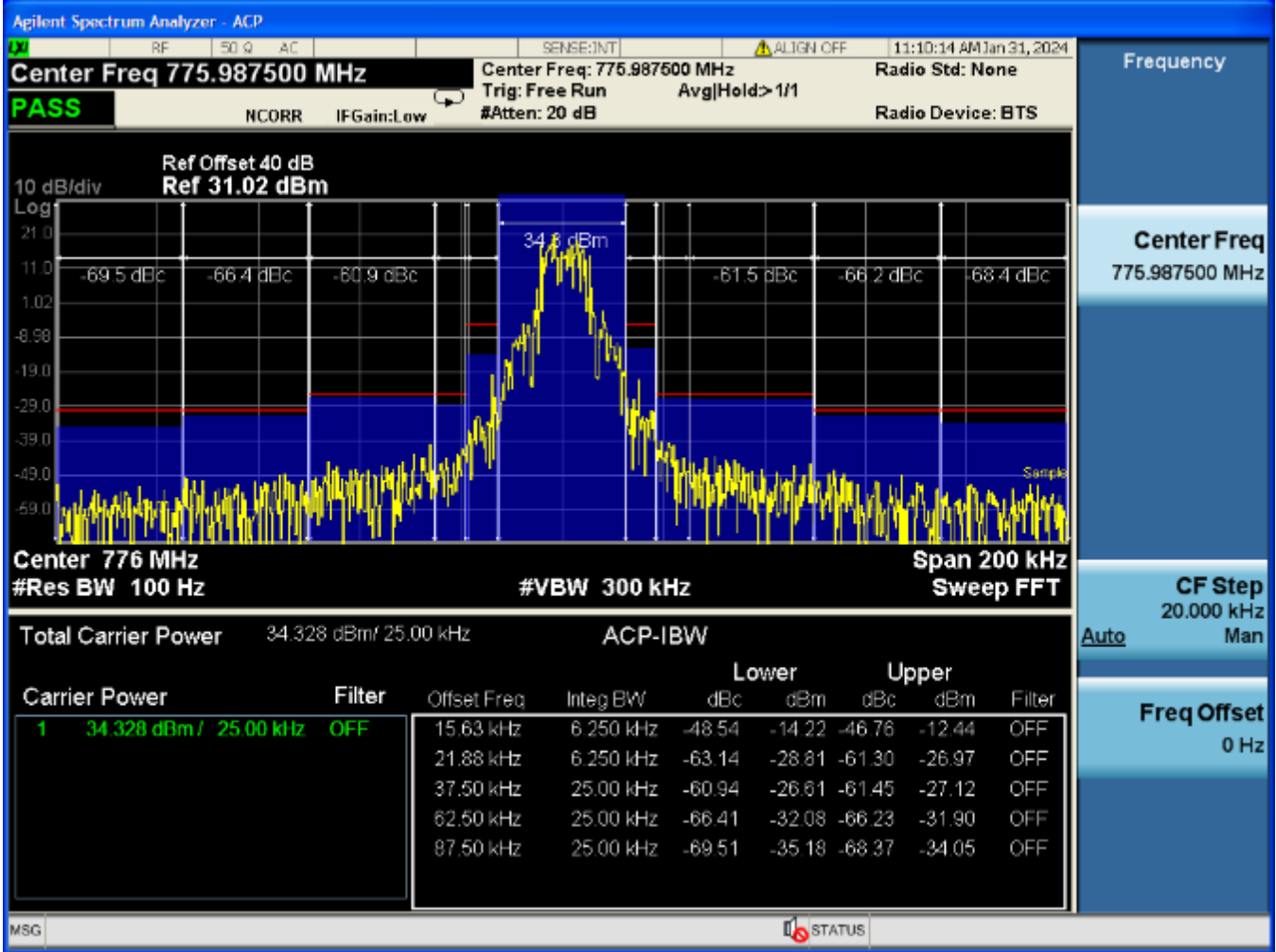


Table 6-9: Adjacent Channel Power – 772.000000 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-92.5
12 Hz to receive band	30(s)	-75	-105.1
In receive band	30(s)	-100	-107.0

Plot 6-17: Adjacent Channel Power – 775.987500 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-18: Adjacent Channel Power – 775.987500 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

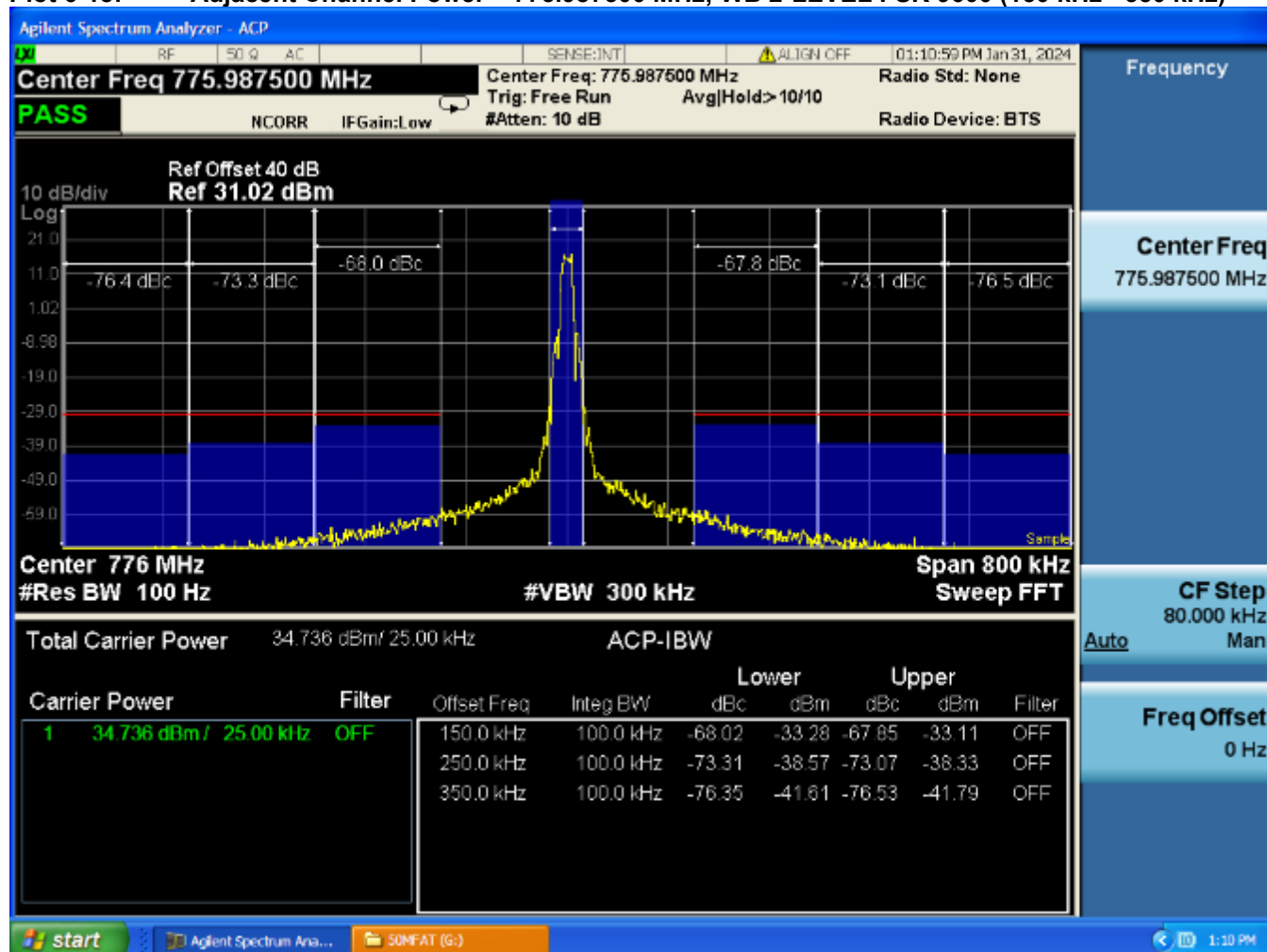
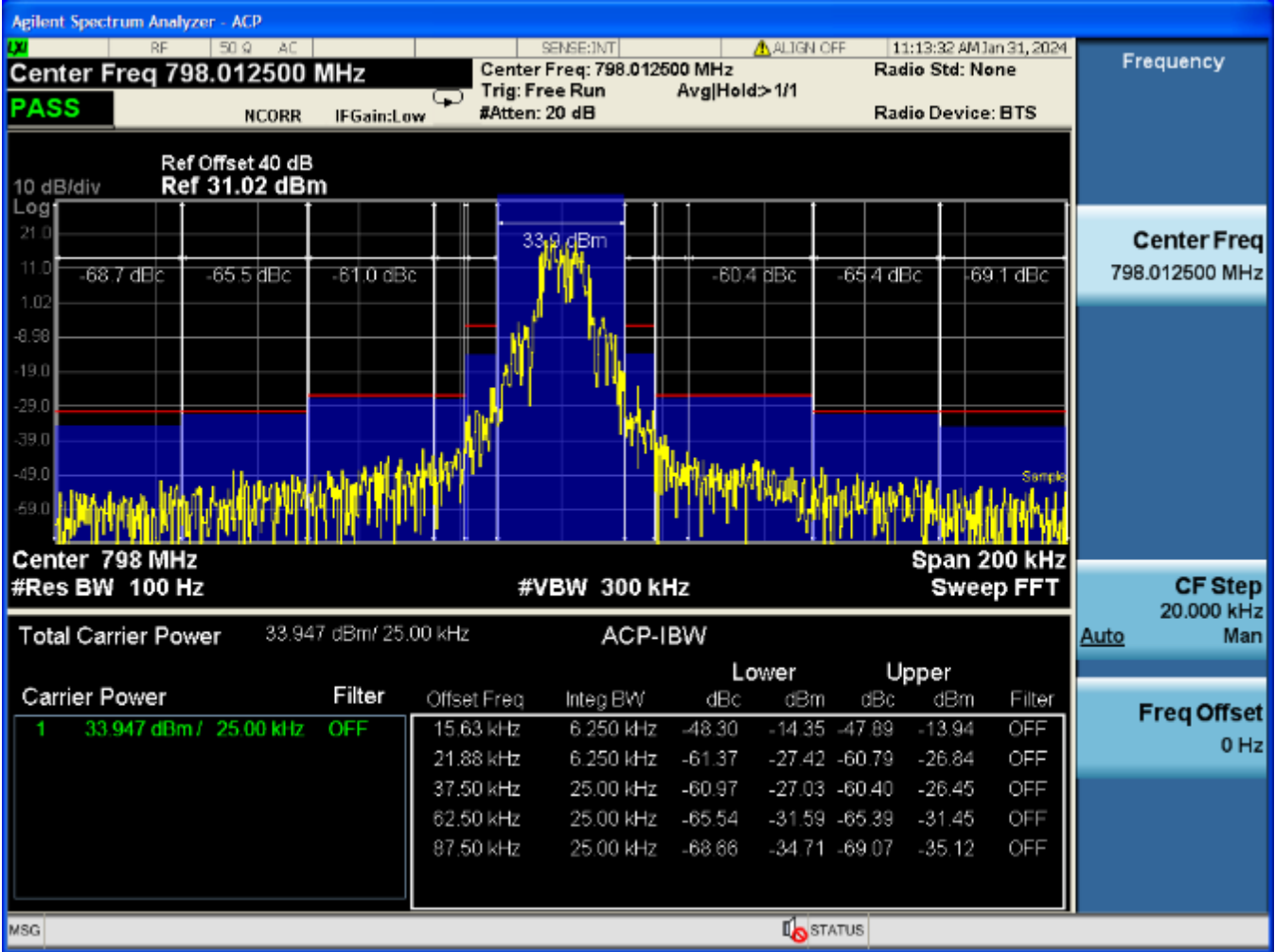


Table 6-10: Adjacent Channel Power – 775.987500 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-90.9
12 Hz to receive band	30(s)	-75	-106.2
In receive band	30(s)	-100	-106.8

Plot 6-19: Adjacent Channel Power – 798.012500 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-20: Adjacent Channel Power – 798.012500 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

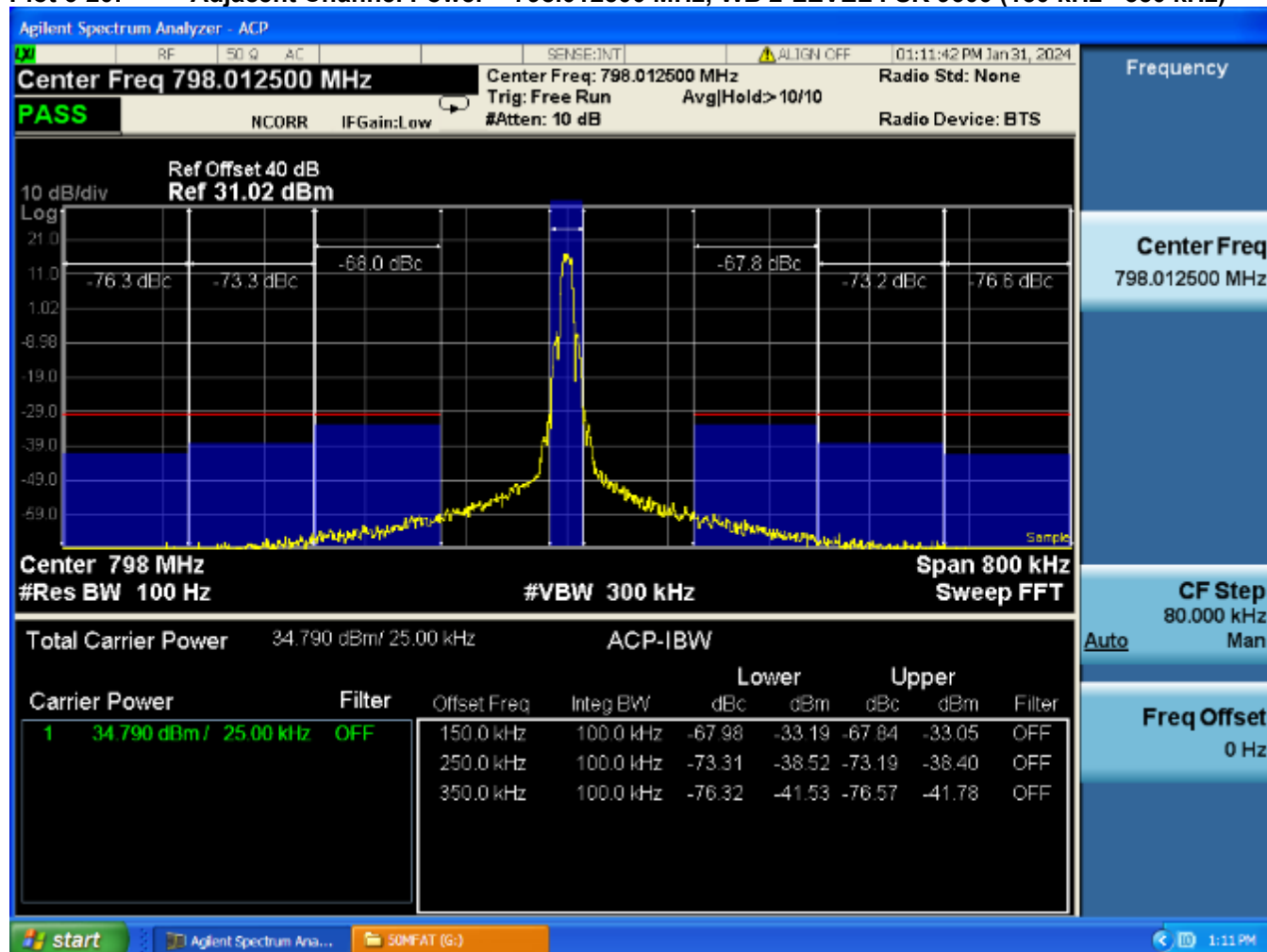
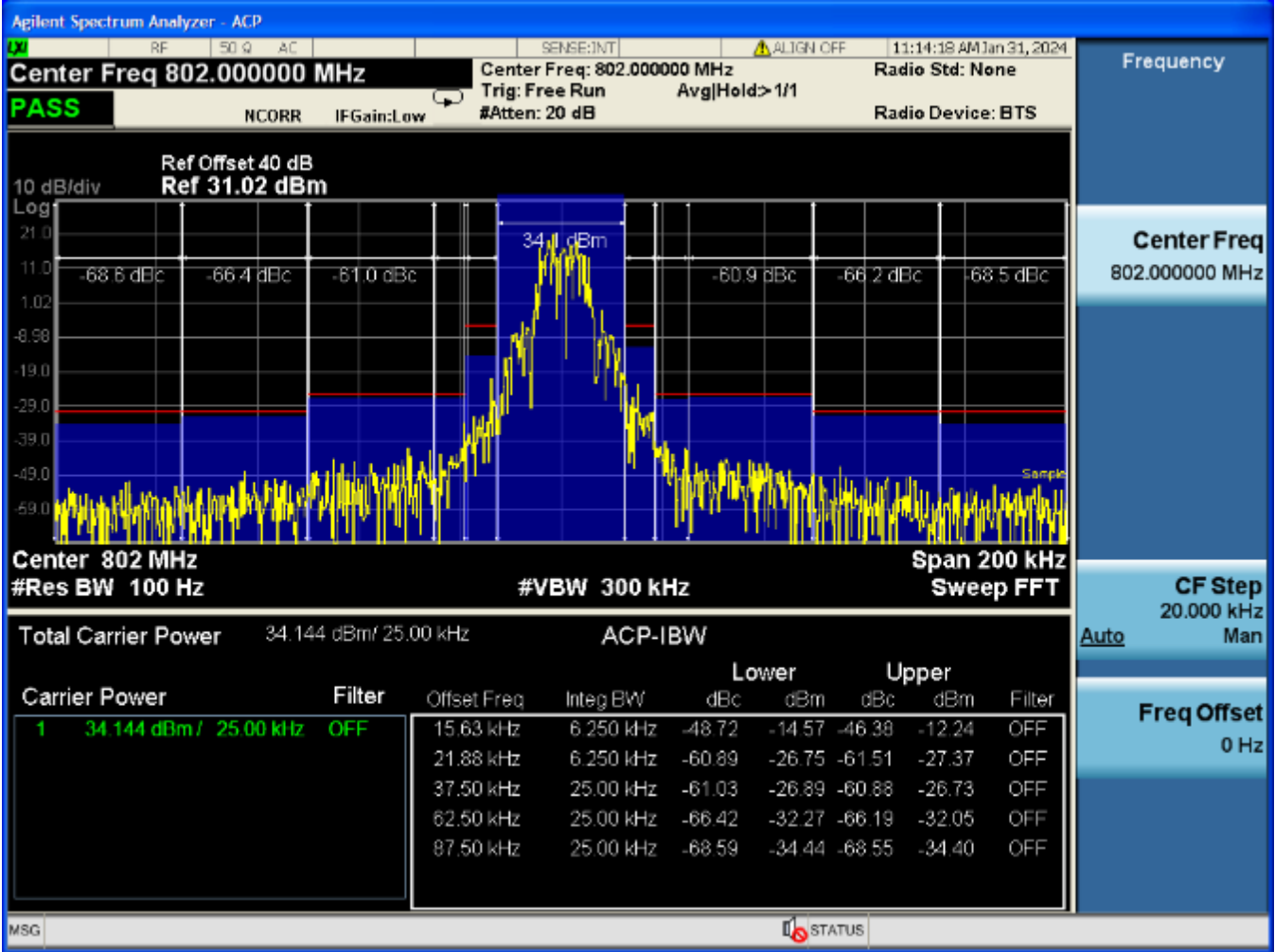


Table 6-11: Adjacent Channel Power – 798.012500 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.2
12 Hz to receive band	30(s)	-75	-106.2
In receive band	30(s)	-100	-106.7

Plot 6-21: Adjacent Channel Power – 802.000000 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-22: Adjacent Channel Power – 802.000000 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

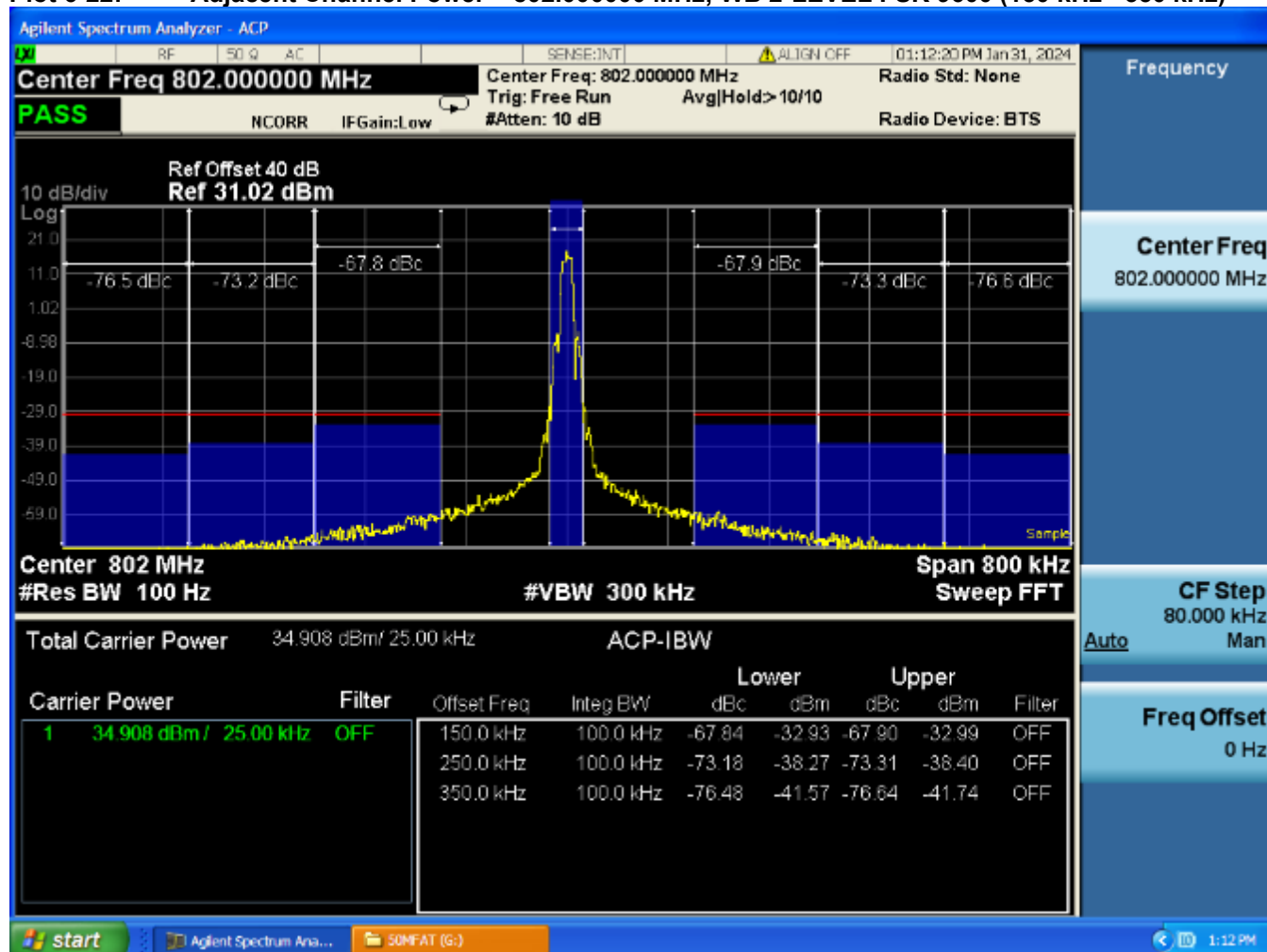
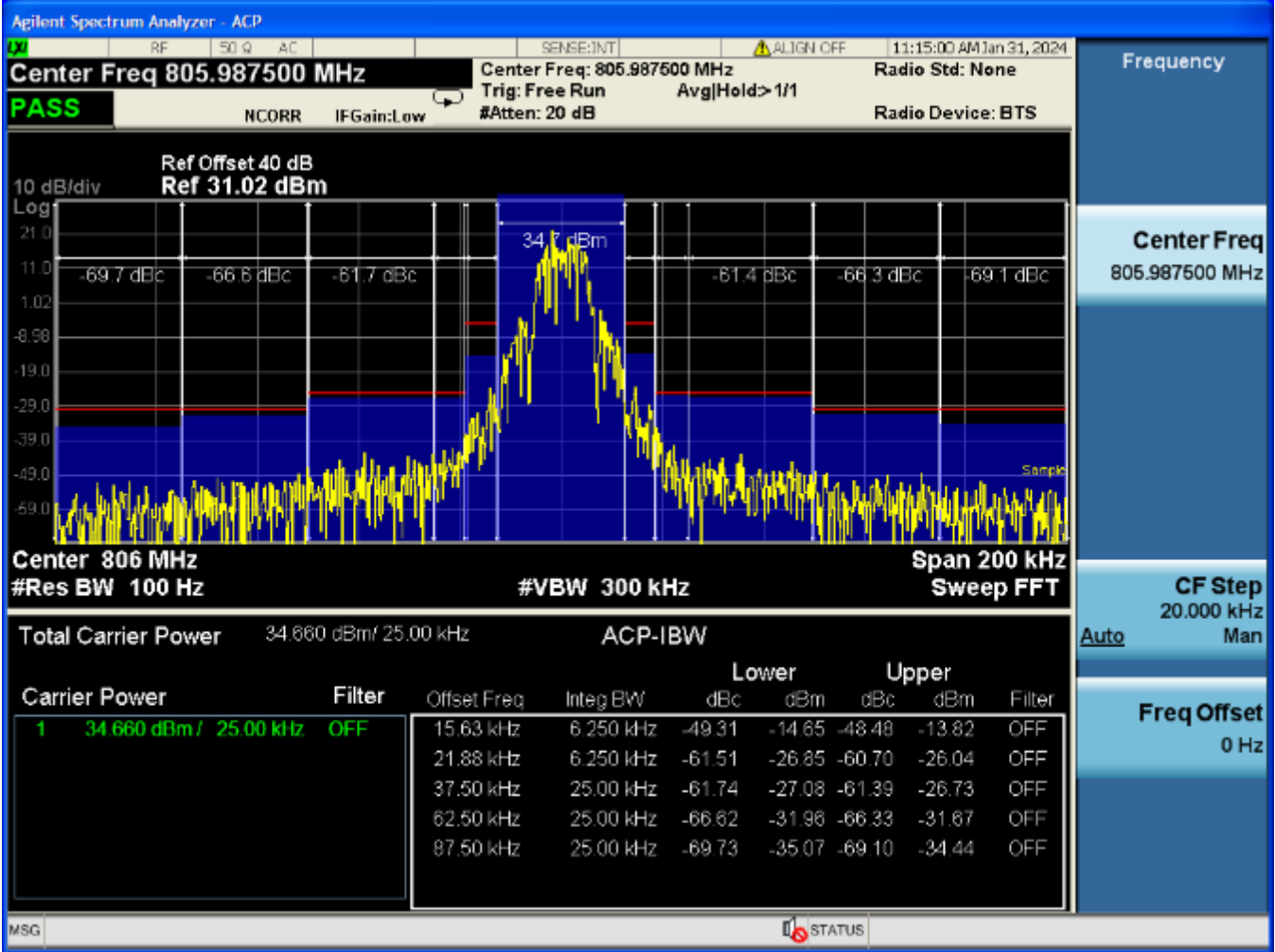


Table 6-12: Adjacent Channel Power – 802.000000 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-104.0
12 Hz to receive band	30(s)	-75	-105.5
In receive band	30(s)	-100	-106.5

Plot 6-23: Adjacent Channel Power – 805.987500 MHz; WB 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-24: Adjacent Channel Power – 805.987500 MHz; WB 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

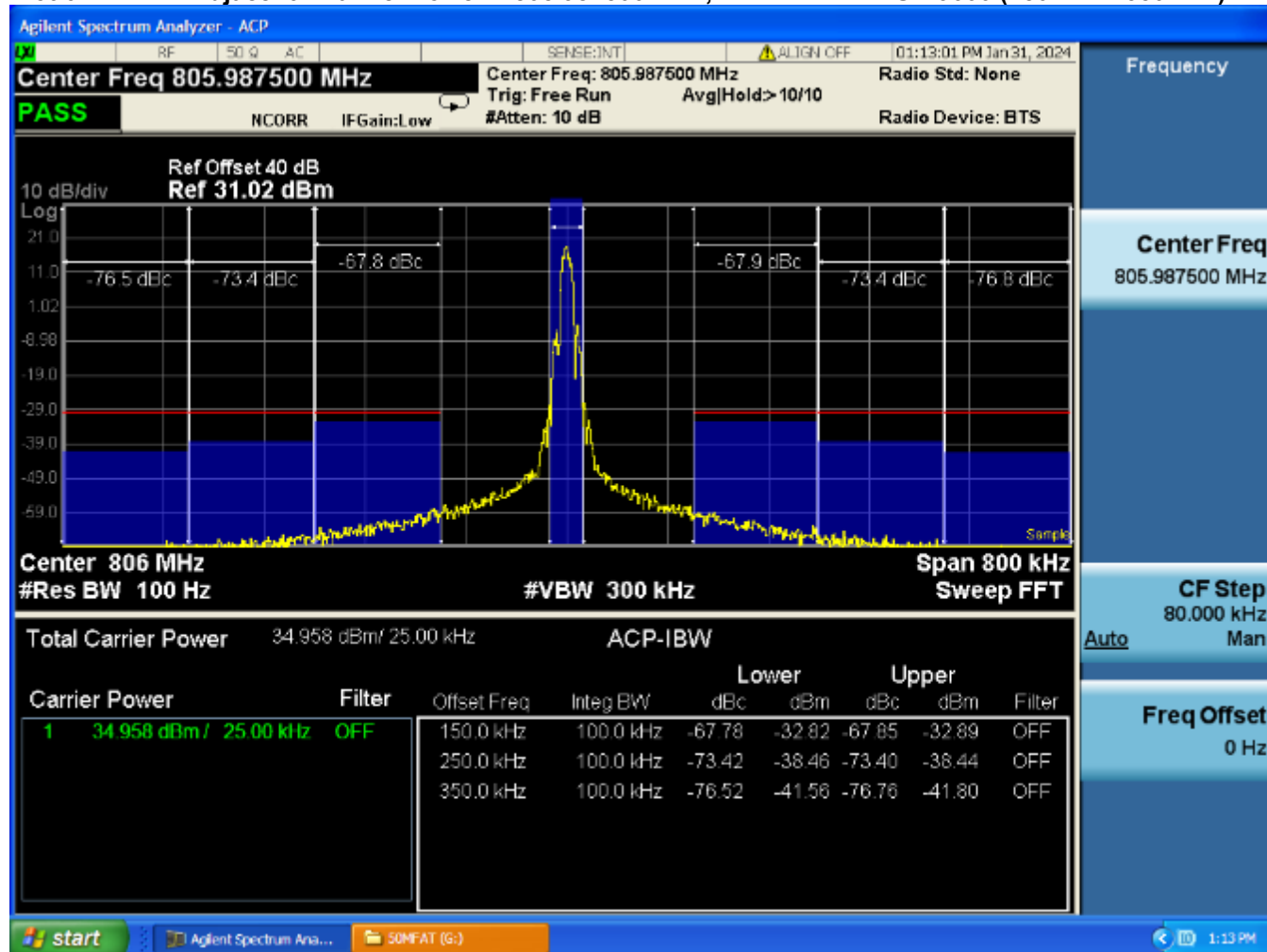
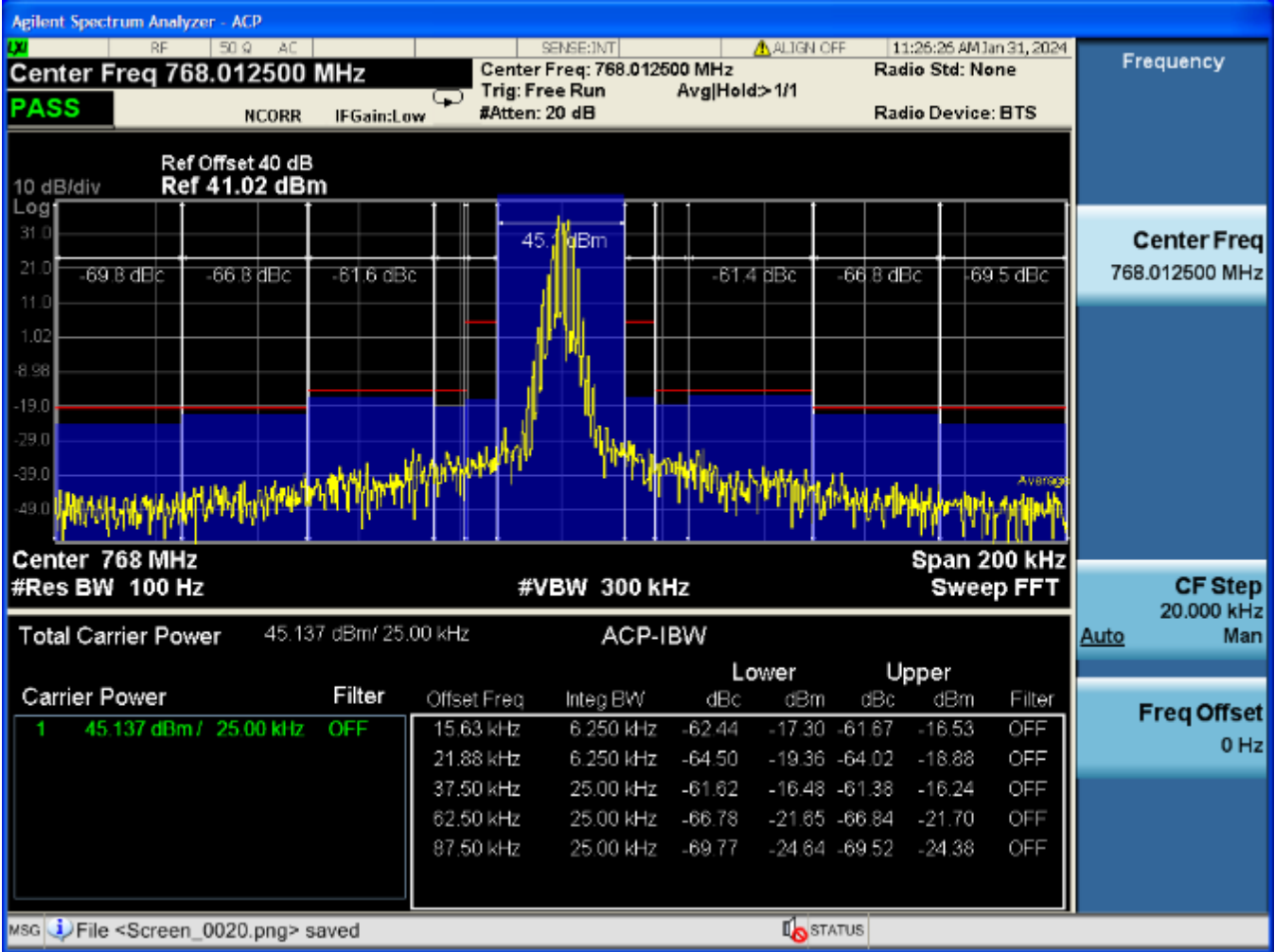


Table 6-13: Adjacent Channel Power – 805.987500 MHz; WB 2-LEVEL FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-92.6
12 Hz to receive band	30(s)	-75	-105.1
In receive band	30(s)	-100	-106.8

Plot 6-25: Adjacent Channel Power – 768.012500 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-26: Adjacent Channel Power – 768.012500 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

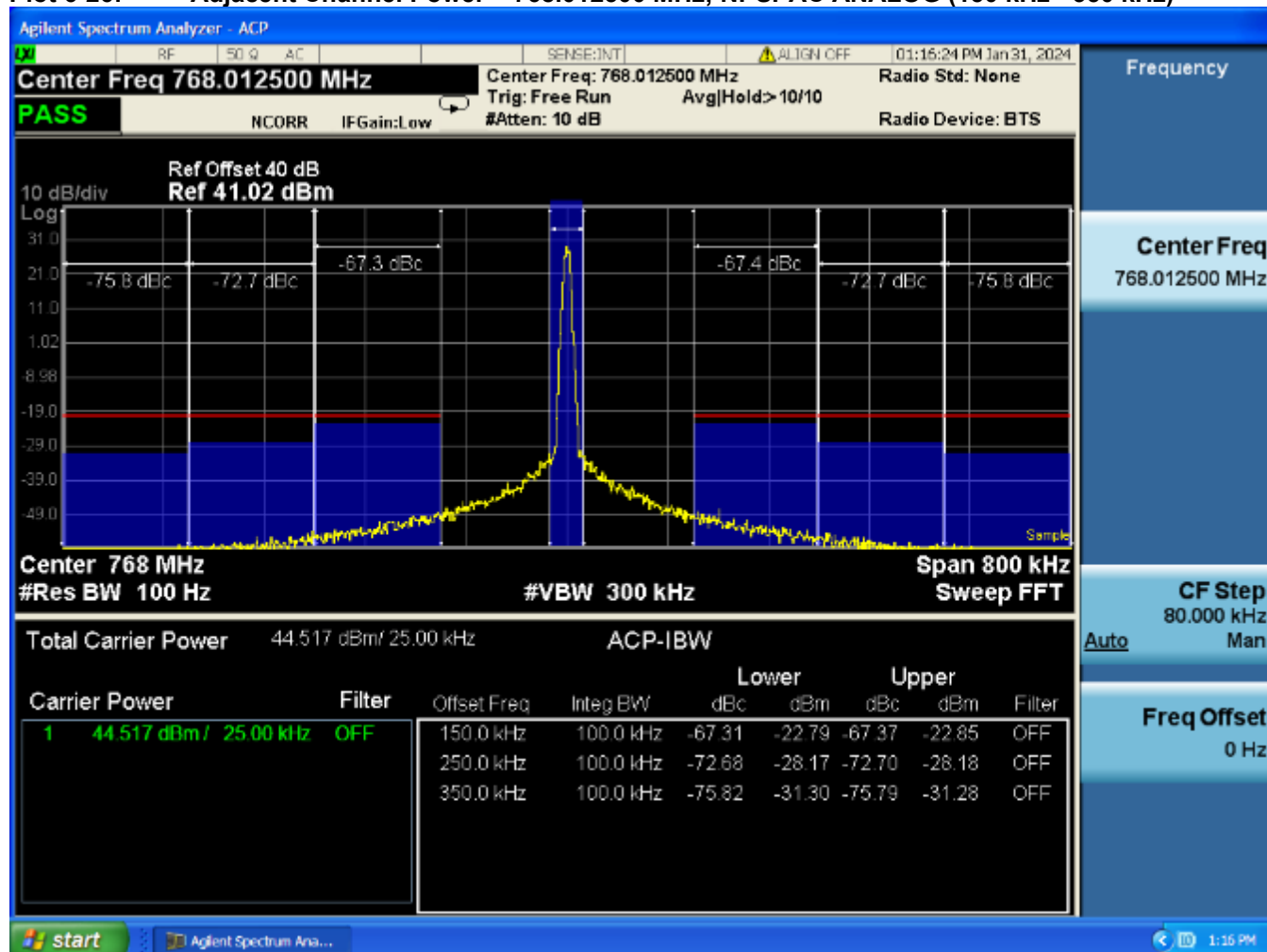
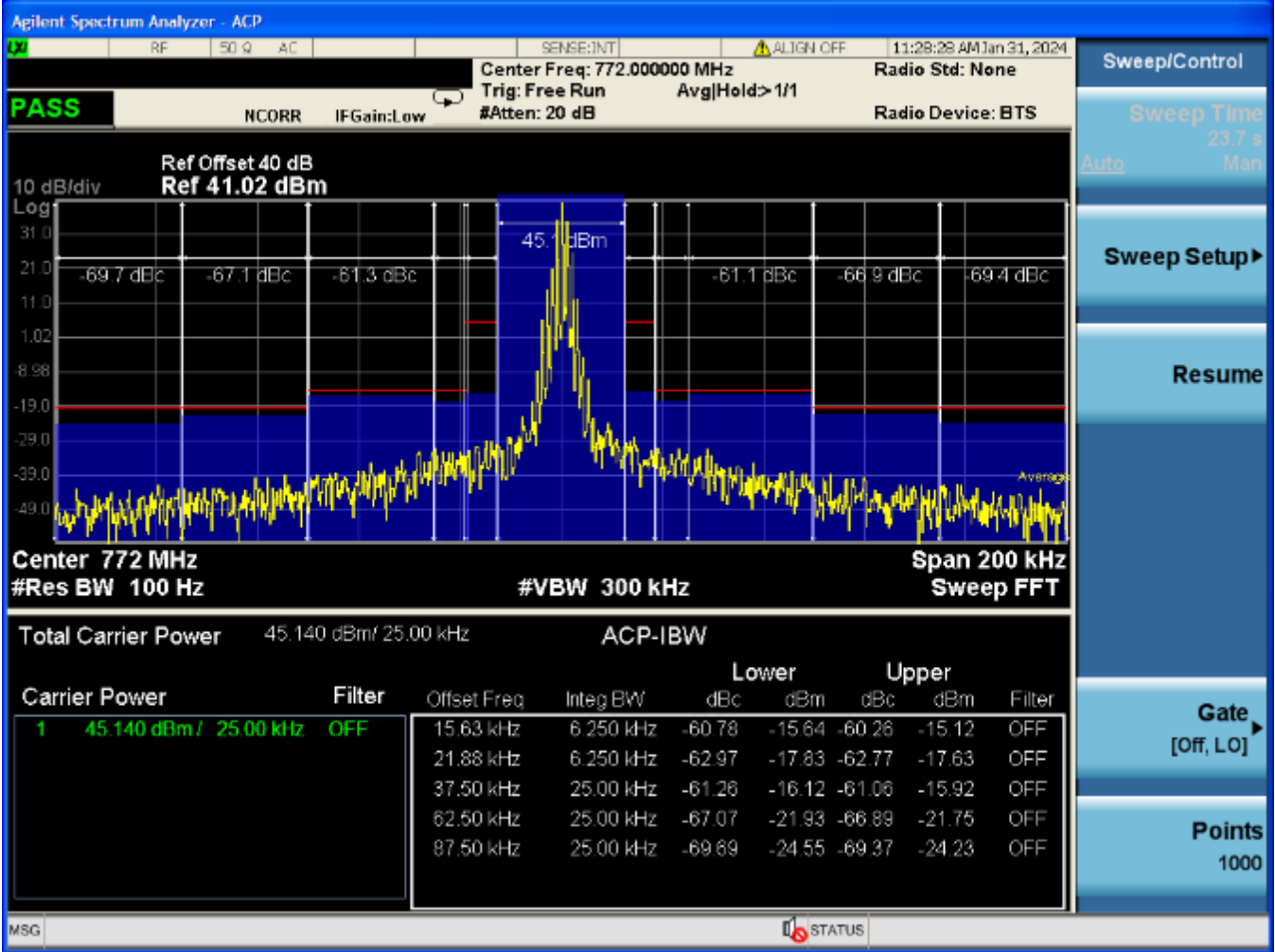


Table 6-14: Adjacent Channel Power – 768.012500 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.3
12 Hz to receive band	30(s)	-75	-99.5
In receive band	30(s)	-100	-101.9

Plot 6-27: Adjacent Channel Power – 772.000000 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-28: Adjacent Channel Power – 772.000000 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

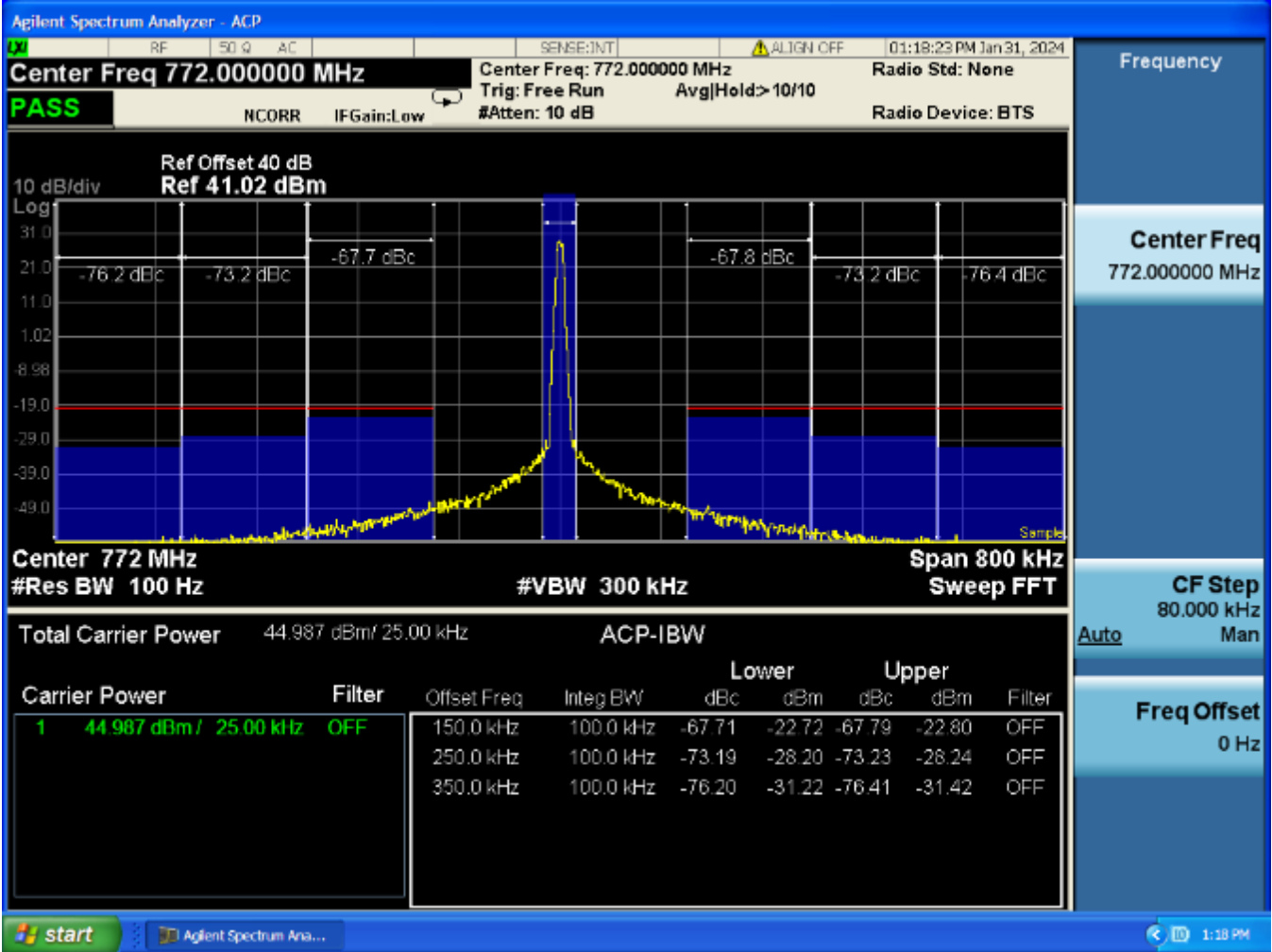
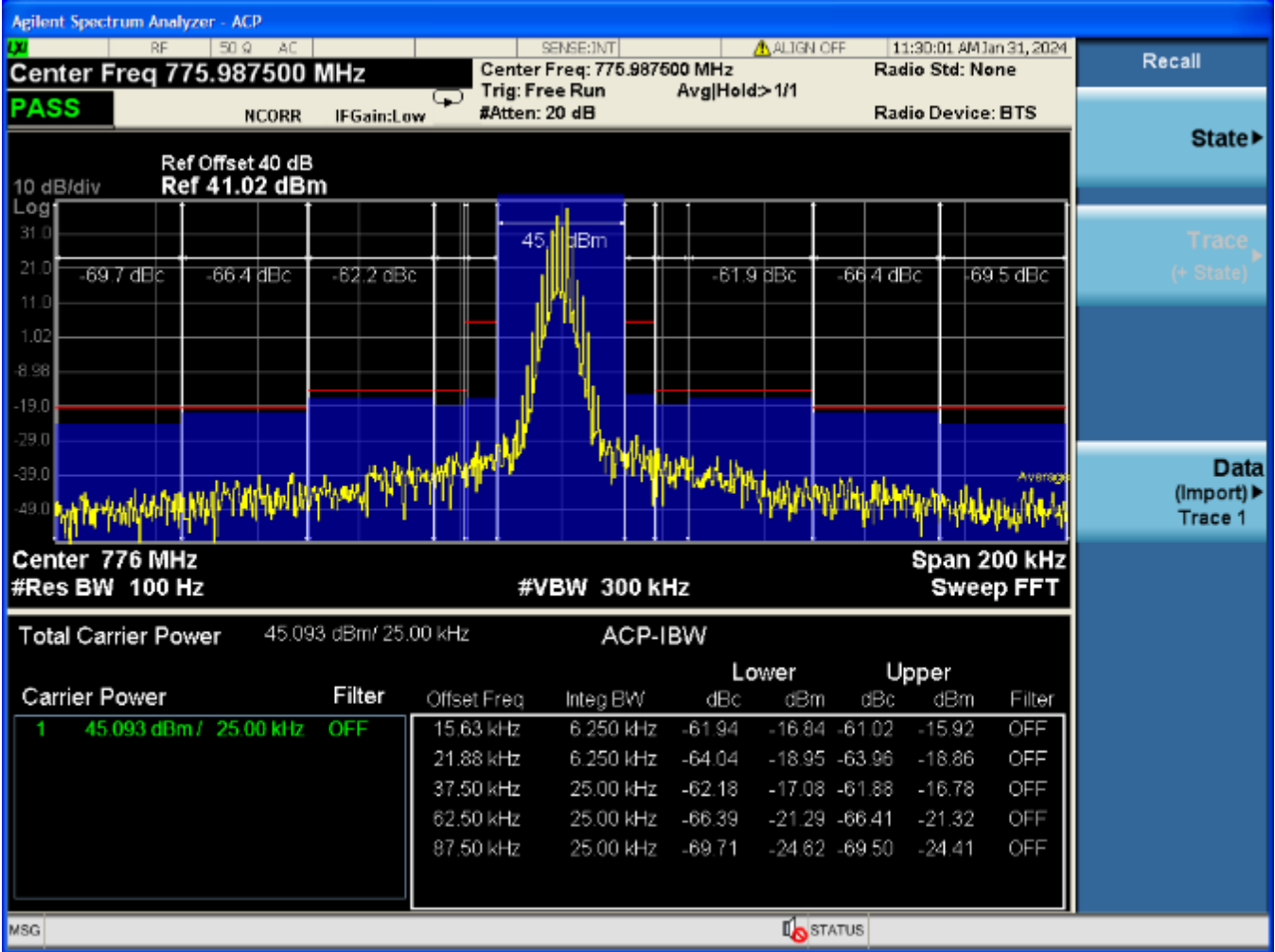


Table 6-15: Adjacent Channel Power – 772.000000 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-85.7
12 Hz to receive band	30(s)	-75	-100.2
In receive band	30(s)	-100	-101.5

Plot 6-29: Adjacent Channel Power – 775.987500 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-30: Adjacent Channel Power – 775.987500 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

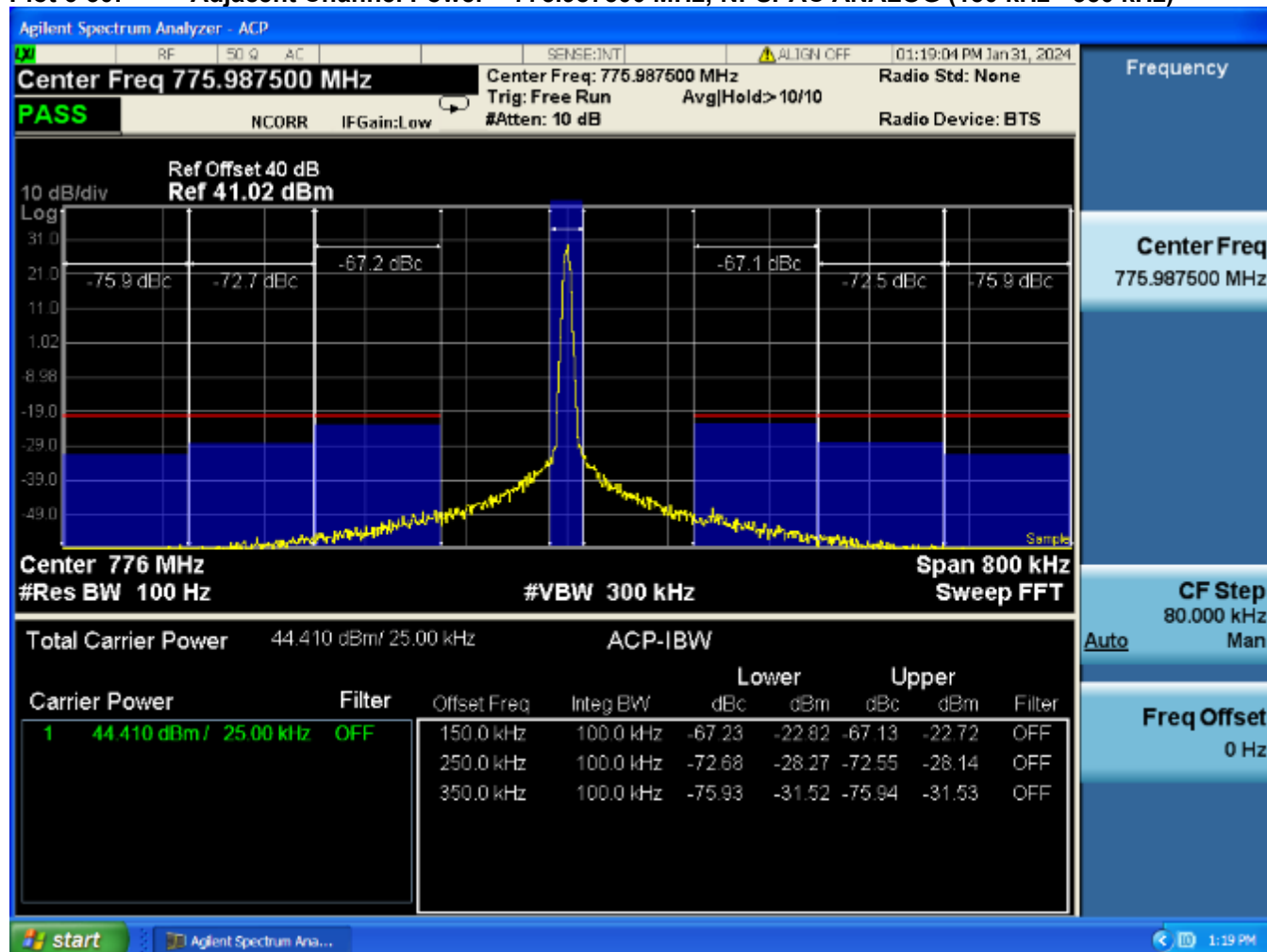
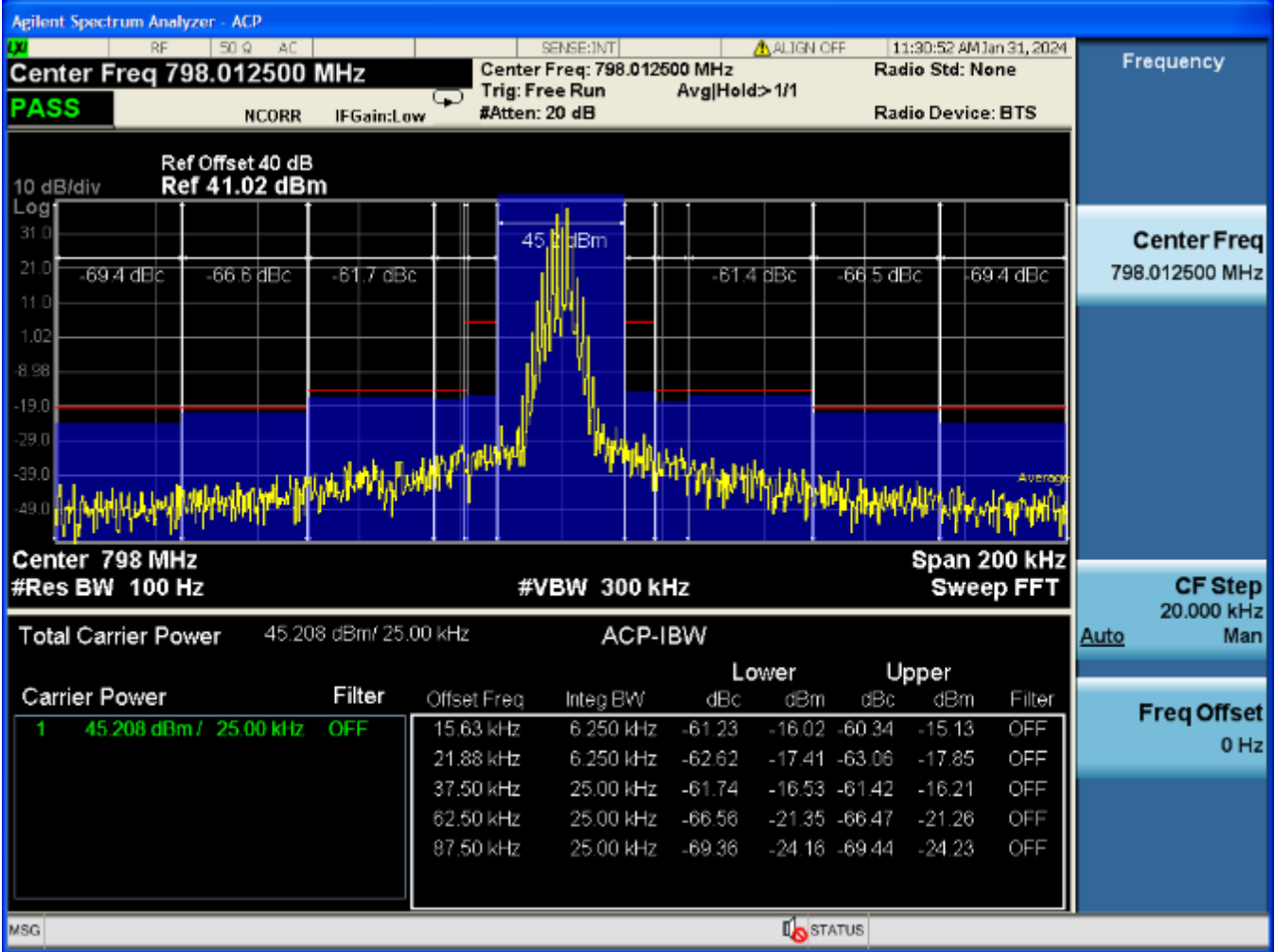


Table 6-16: Adjacent Channel Power – 775.987500 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-85.8
12 Hz to receive band	30(s)	-75	-100.4
In receive band	30(s)	-100	-101.4

Plot 6-31: Adjacent Channel Power – 798.012500 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-32: Adjacent Channel Power – 798.012500 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

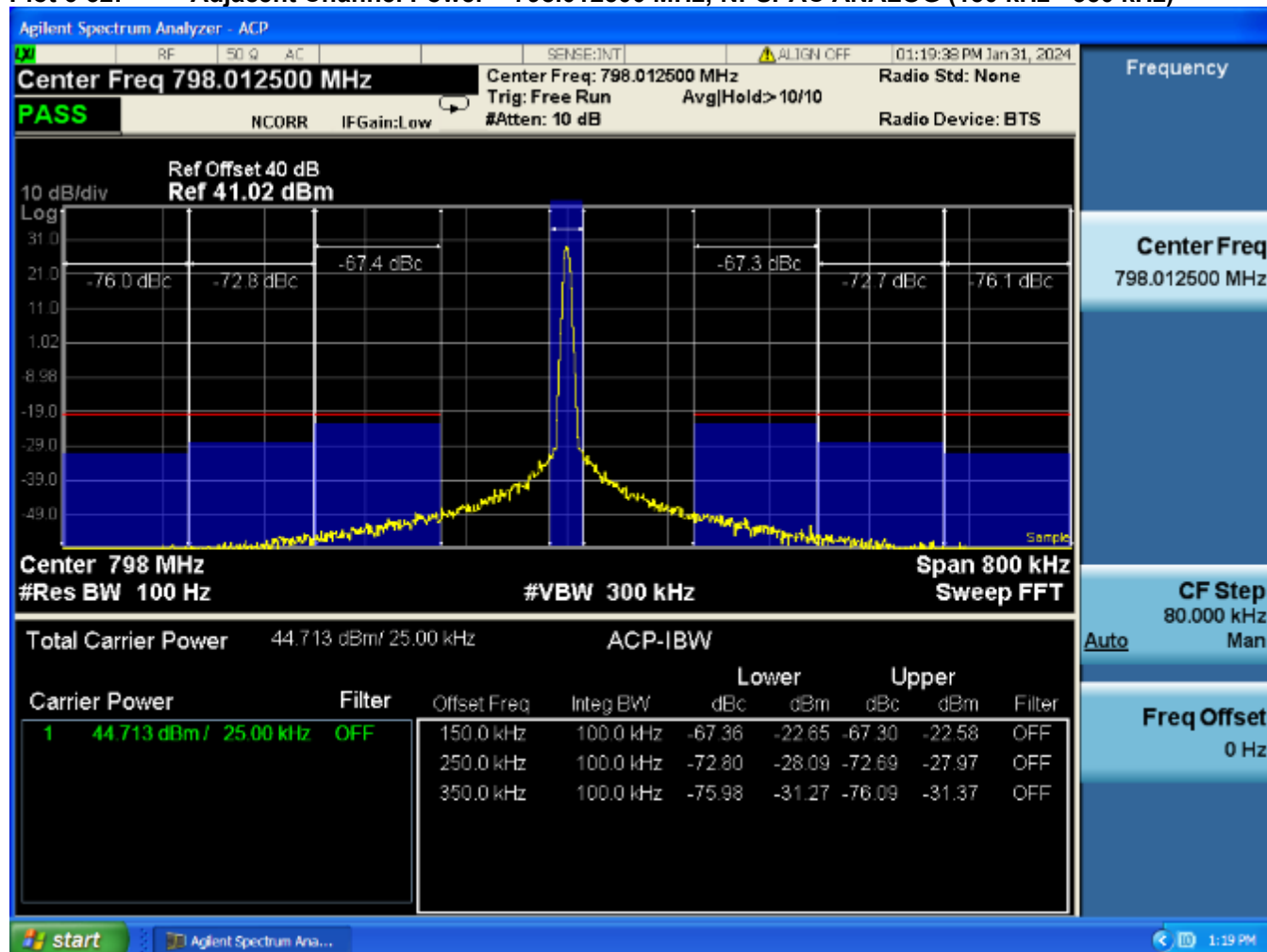
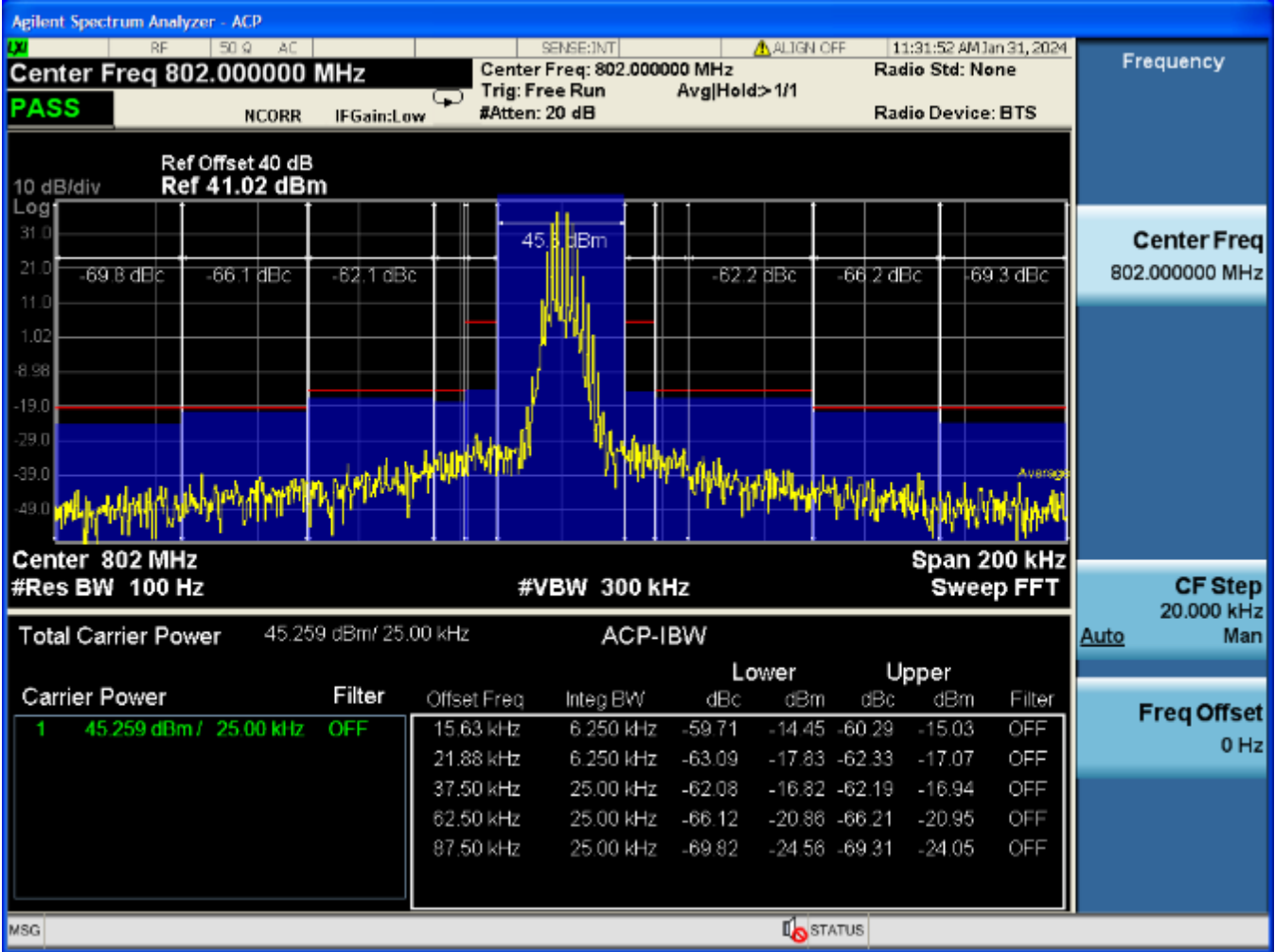


Table 6-17: Adjacent Channel Power – 798.012500 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-87.0
12 Hz to receive band	30(s)	-75	-100.2
In receive band	30(s)	-100	-102.9

Plot 6-33: Adjacent Channel Power – 802.000000 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-34: Adjacent Channel Power – 802.000000 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

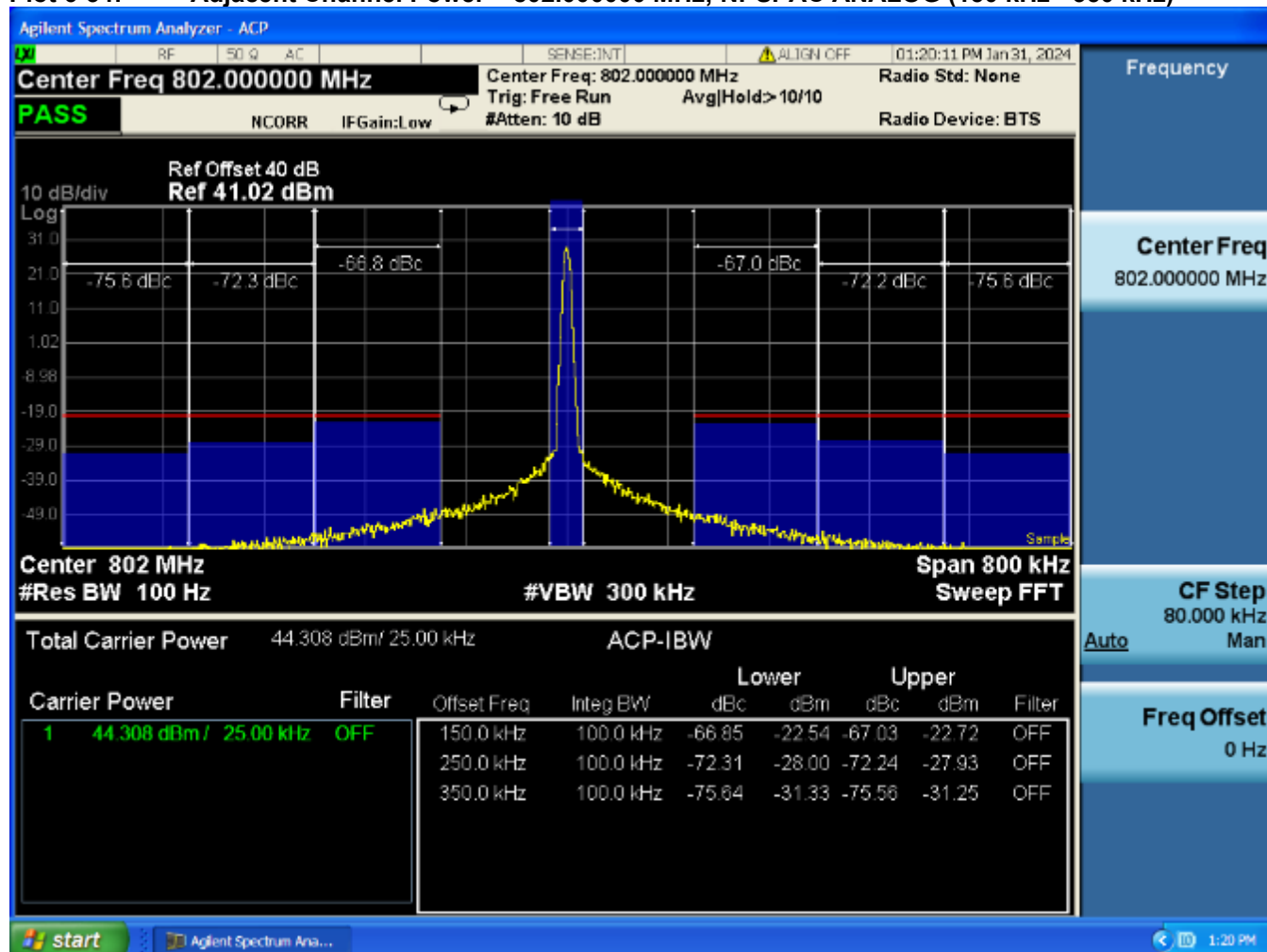
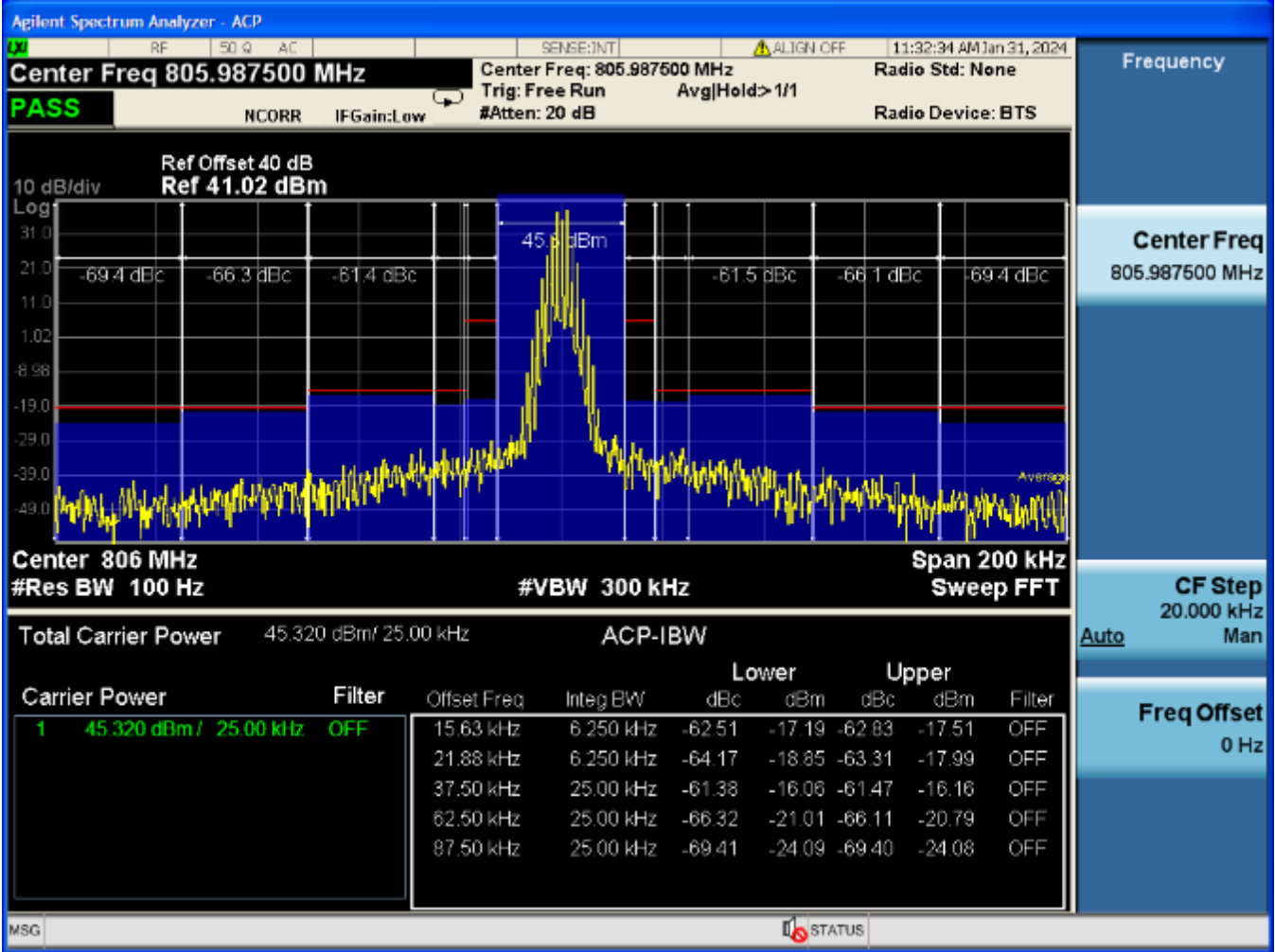


Table 6-18: Adjacent Channel Power – 802.000000 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.6
12 Hz to receive band	30(s)	-75	-99.4
In receive band	30(s)	-100	-101.5

Plot 6-35: Adjacent Channel Power – 805.987500 MHz; NPSPAC ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-36: Adjacent Channel Power – 805.987500 MHz; NPSPAC ANALOG (150 kHz - 350 kHz)

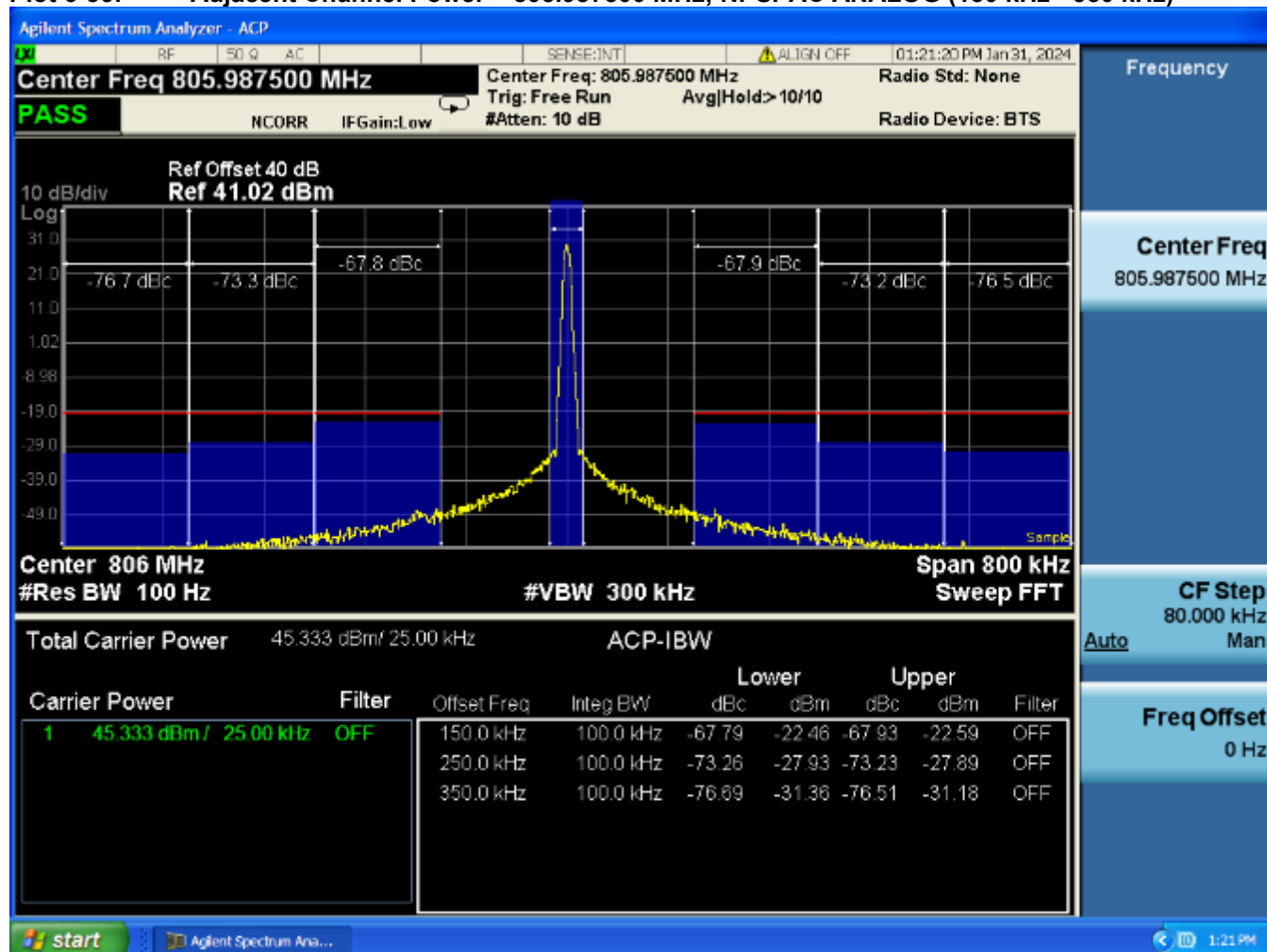
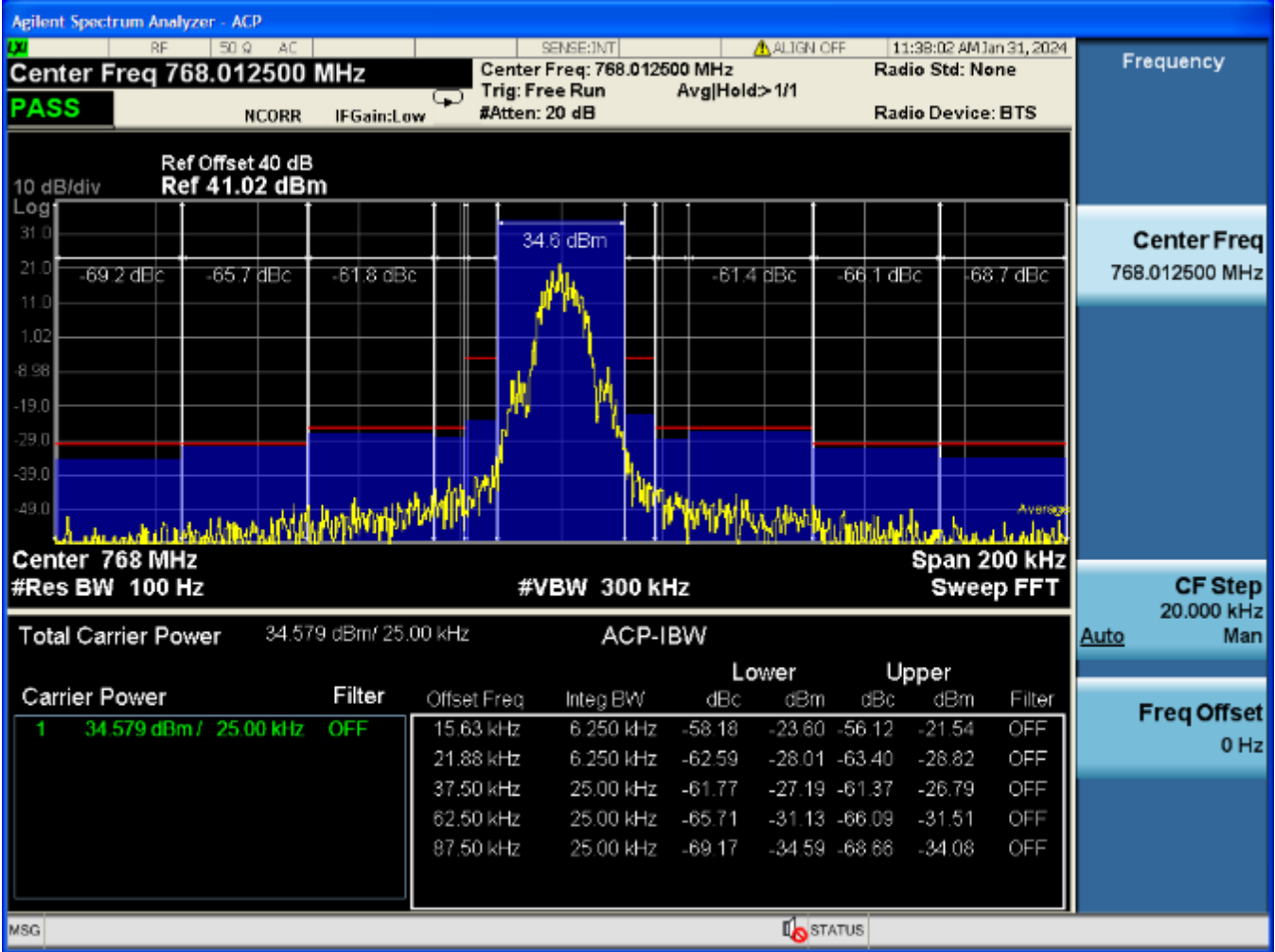


Table 6-19: Adjacent Channel Power – 805.987500 MHz; NPSPAC ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.6
12 Hz to receive band	30(s)	-75	-101.1
In receive band	30(s)	-100	-101.2

Plot 6-37: Adjacent Channel Power – 768.0125 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-38: Adjacent Channel Power – 768.012500 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

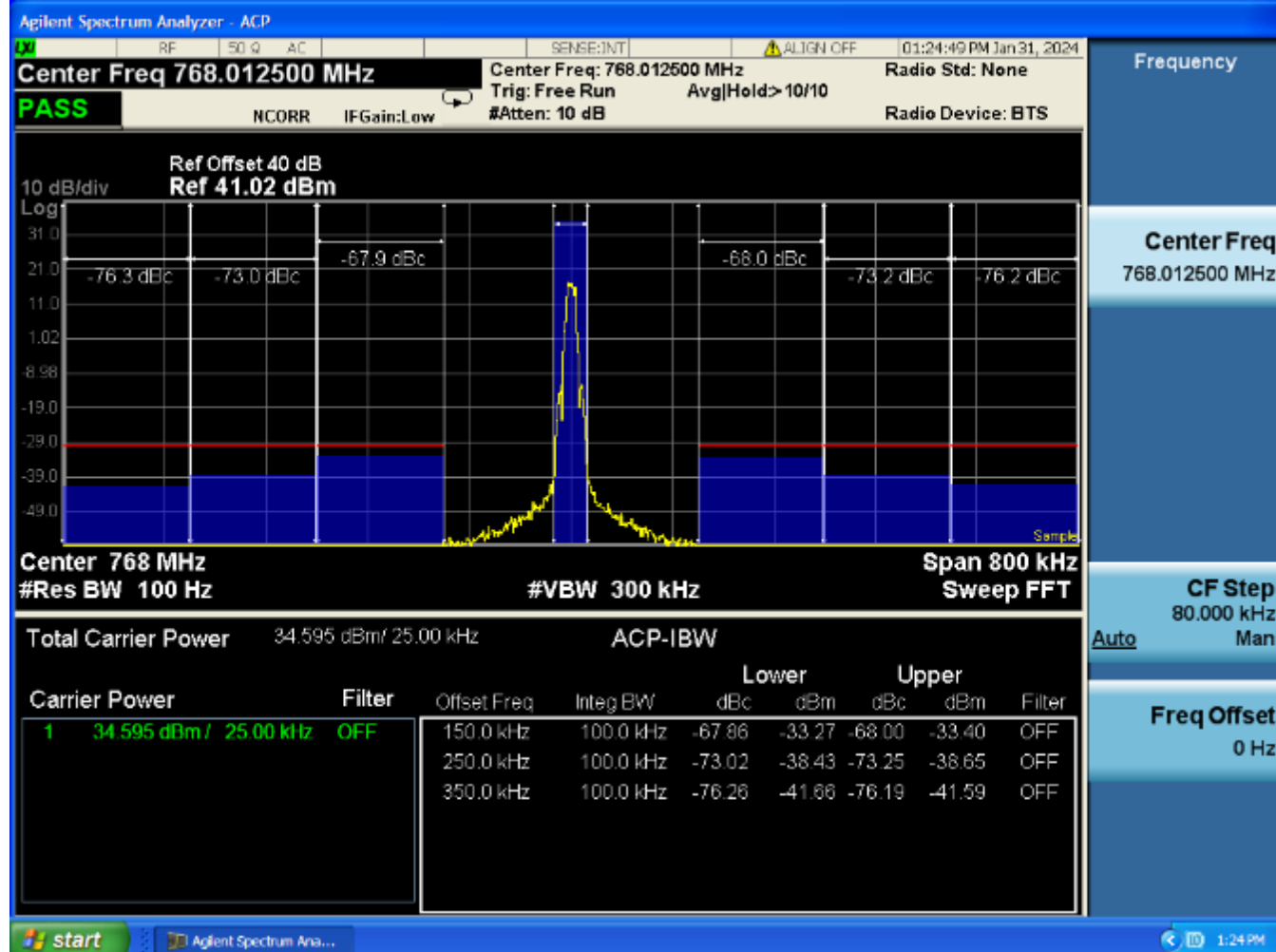
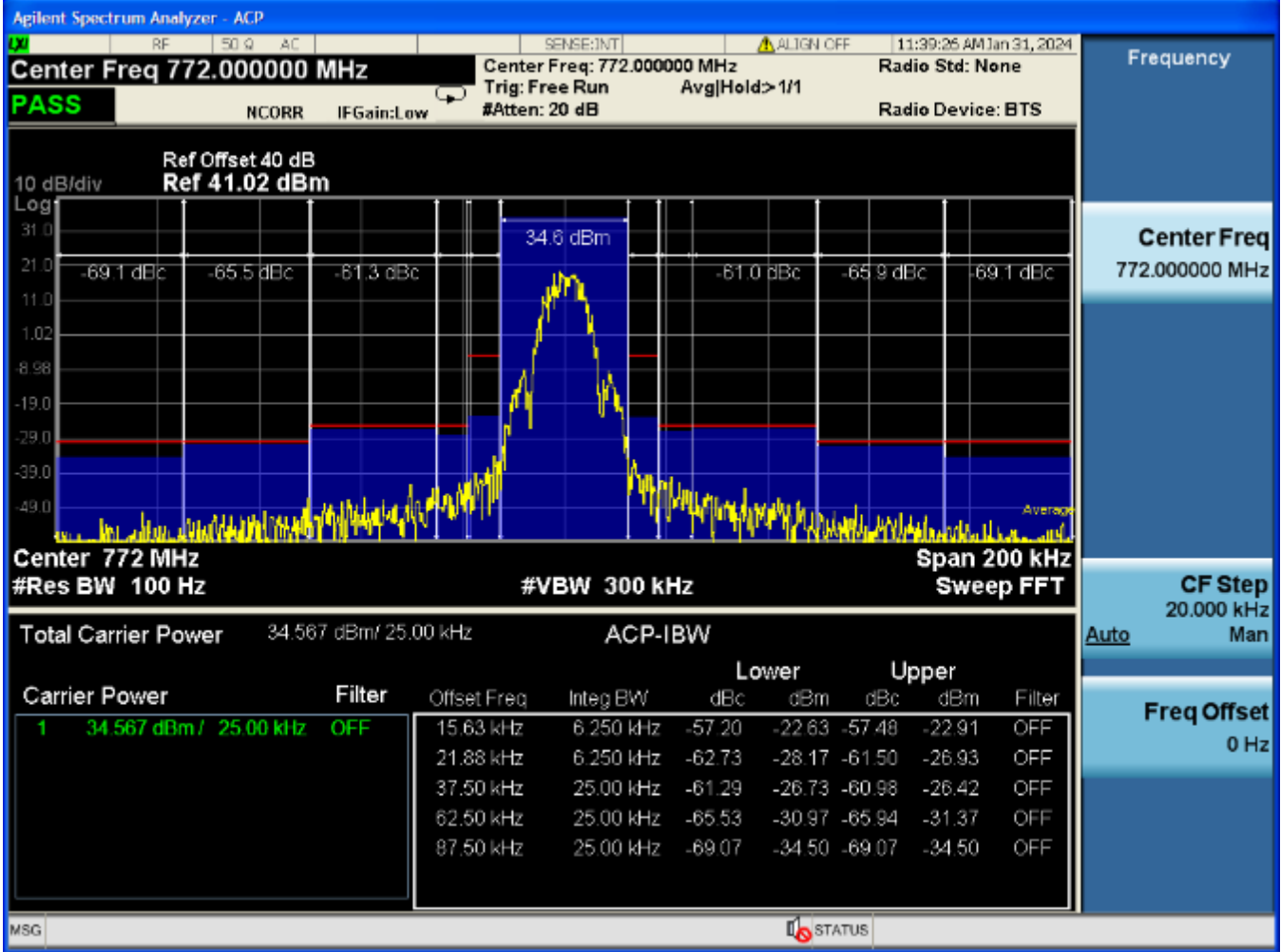


Table 6-20: Adjacent Channel Power – 768.0125 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.1
12 Hz to receive band	30(s)	-75	-104.7
In receive band	30(s)	-100	-107.3

Plot 6-39: Adjacent Channel Power – 772.0000 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-40: Adjacent Channel Power – 772.0000 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

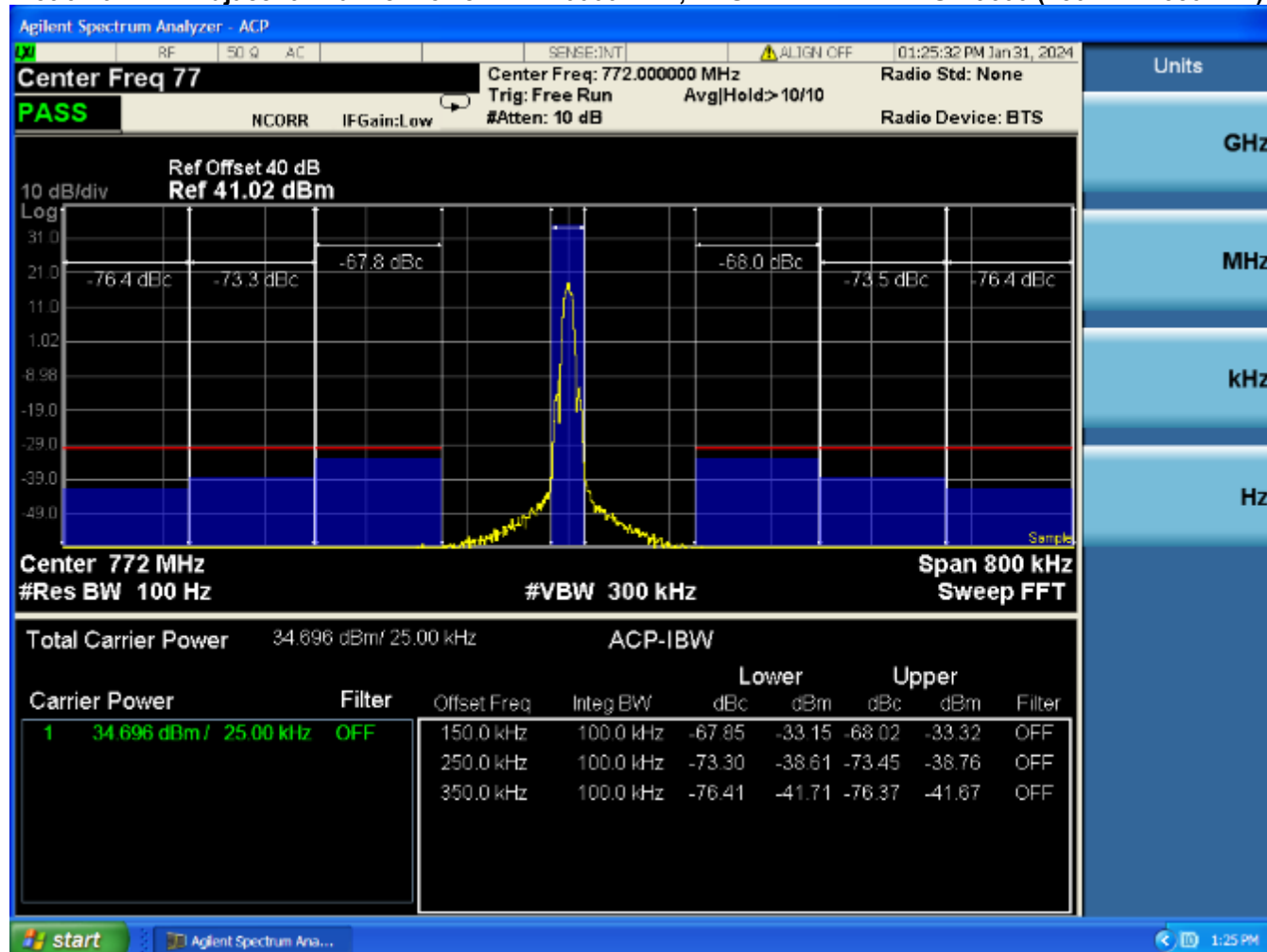
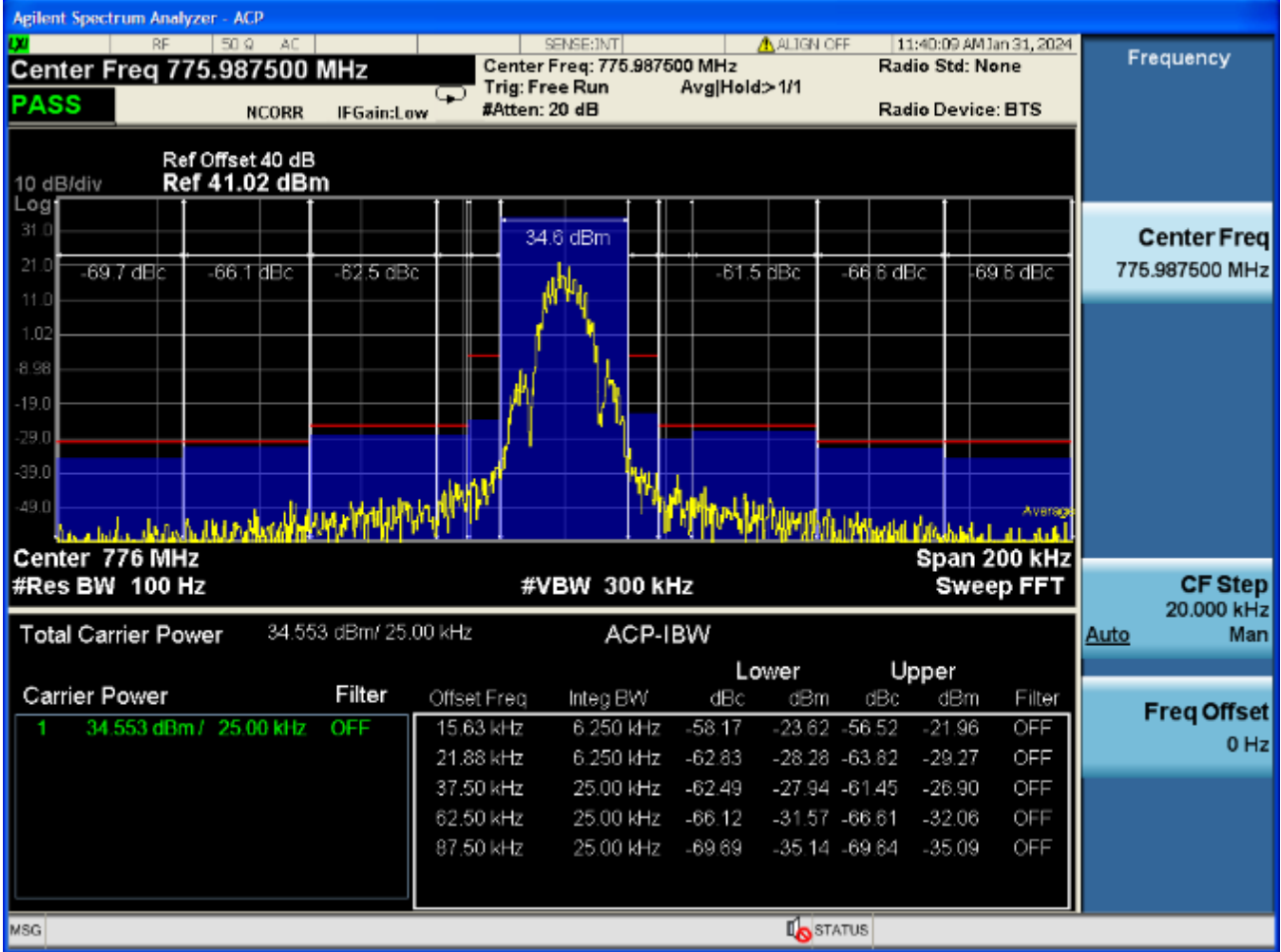


Table 6-21: Adjacent Channel Power – 772.0000 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.1
12 Hz to receive band	30(s)	-75	-105.2
In receive band	30(s)	-100	-107.2

Plot 6-41: Adjacent Channel Power – 775.9875 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-42: Adjacent Channel Power – 775.9875 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

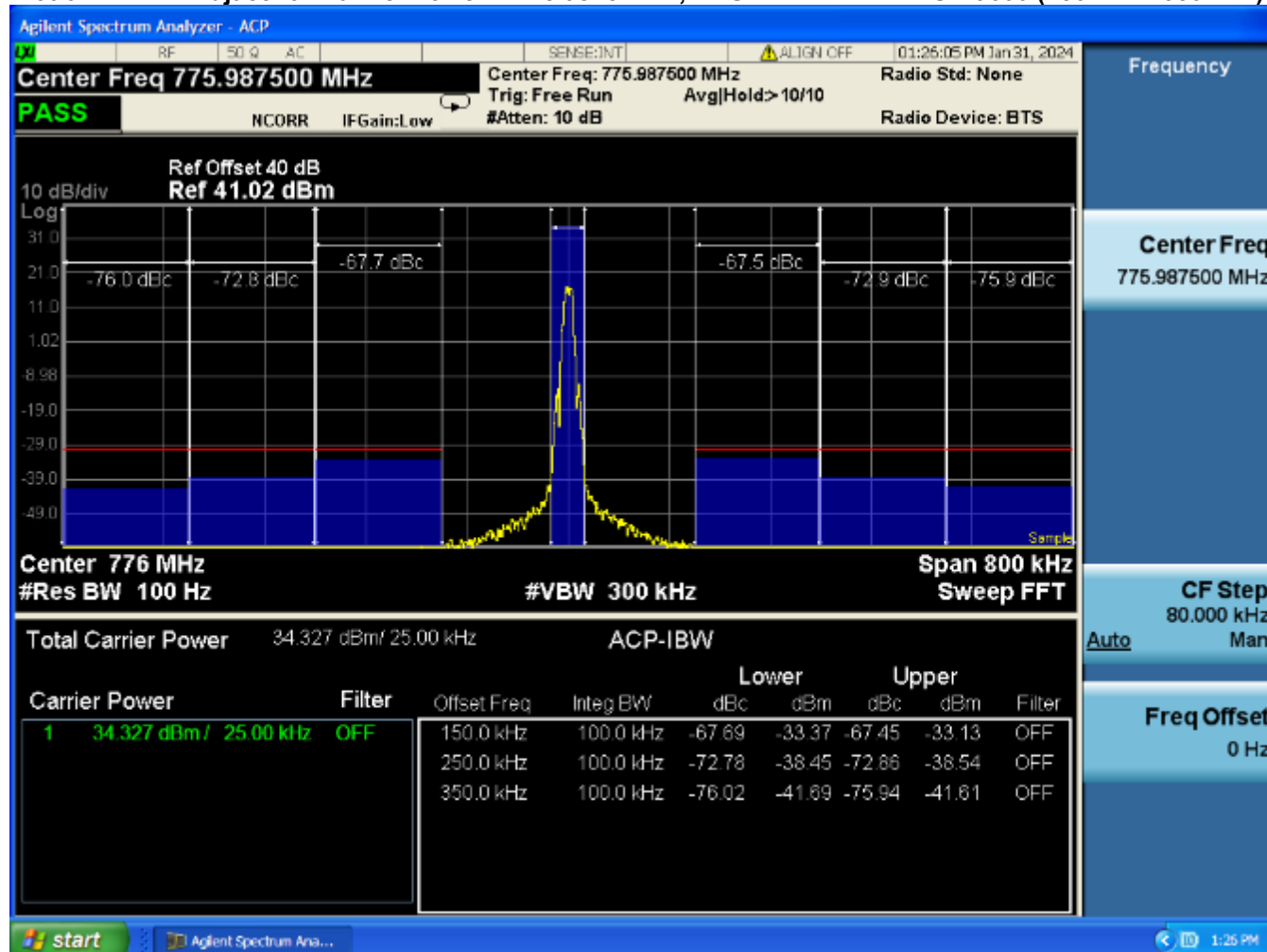
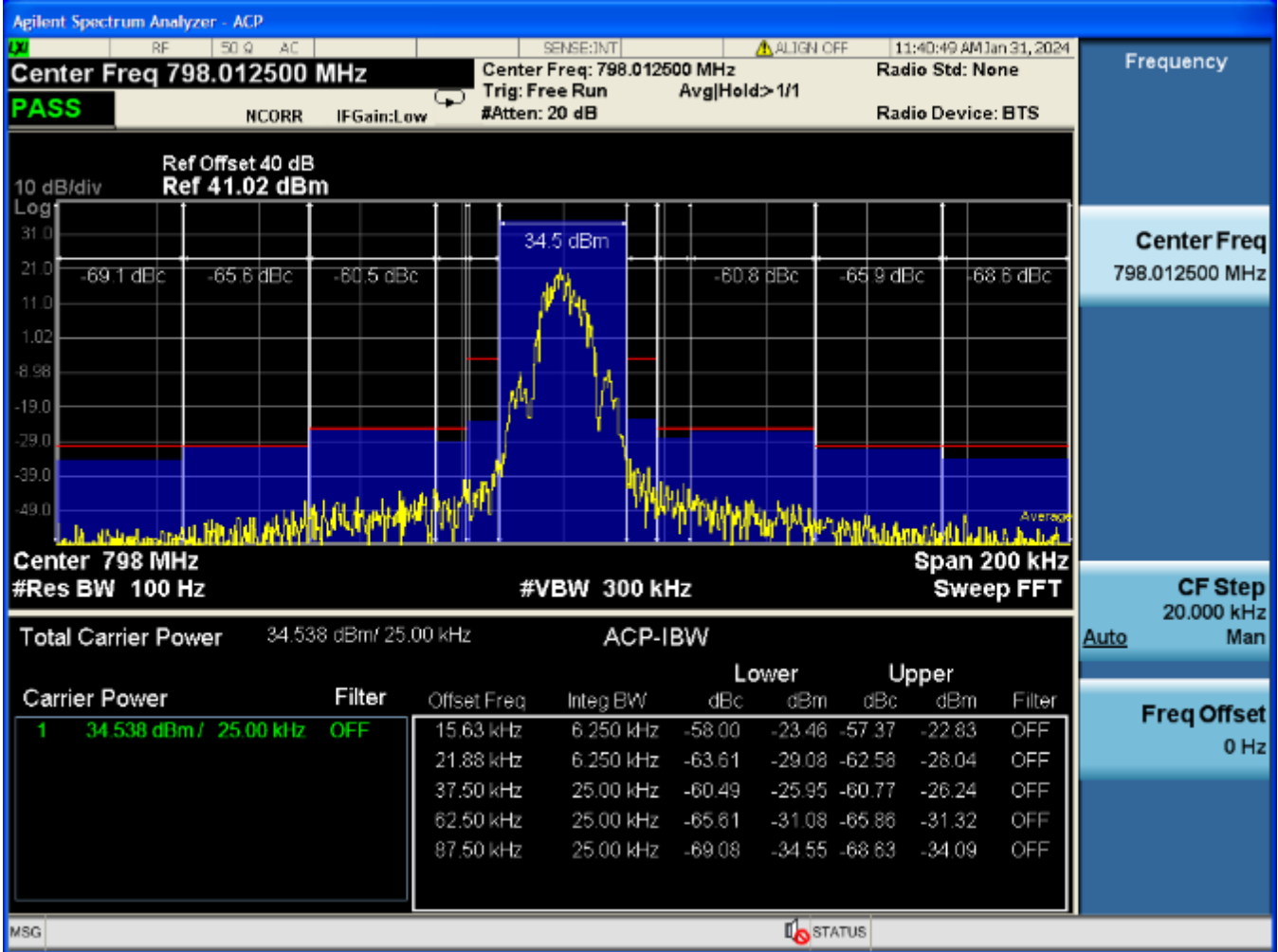


Table 6-22: Adjacent Channel Power – 775.9875 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-91.0
12 Hz to receive band	30(s)	-75	-106.3
In receive band	30(s)	-100	-106.9

Plot 6-43: Adjacent Channel Power – 798.0125 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-44: Adjacent Channel Power – 798.0125 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

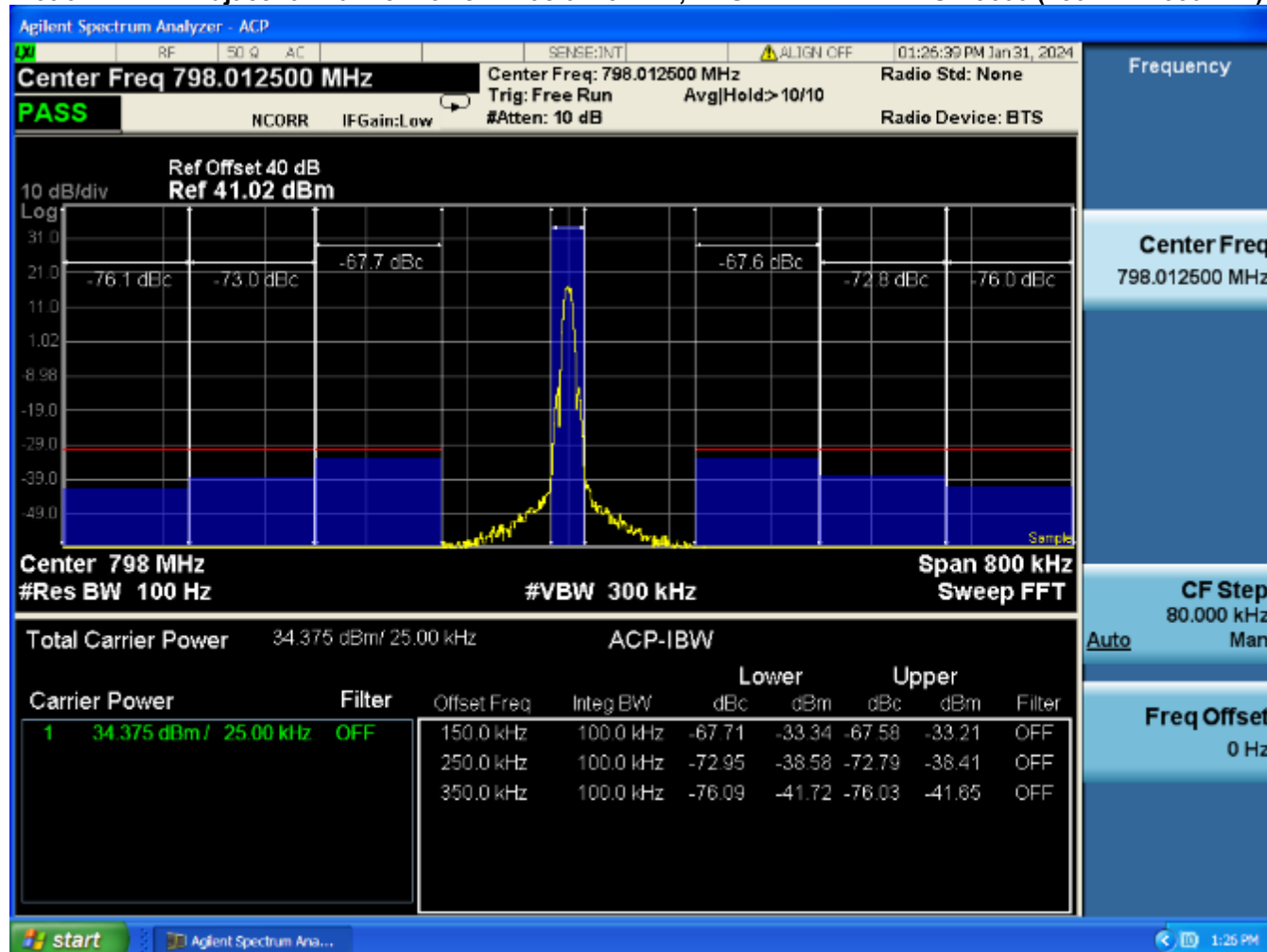
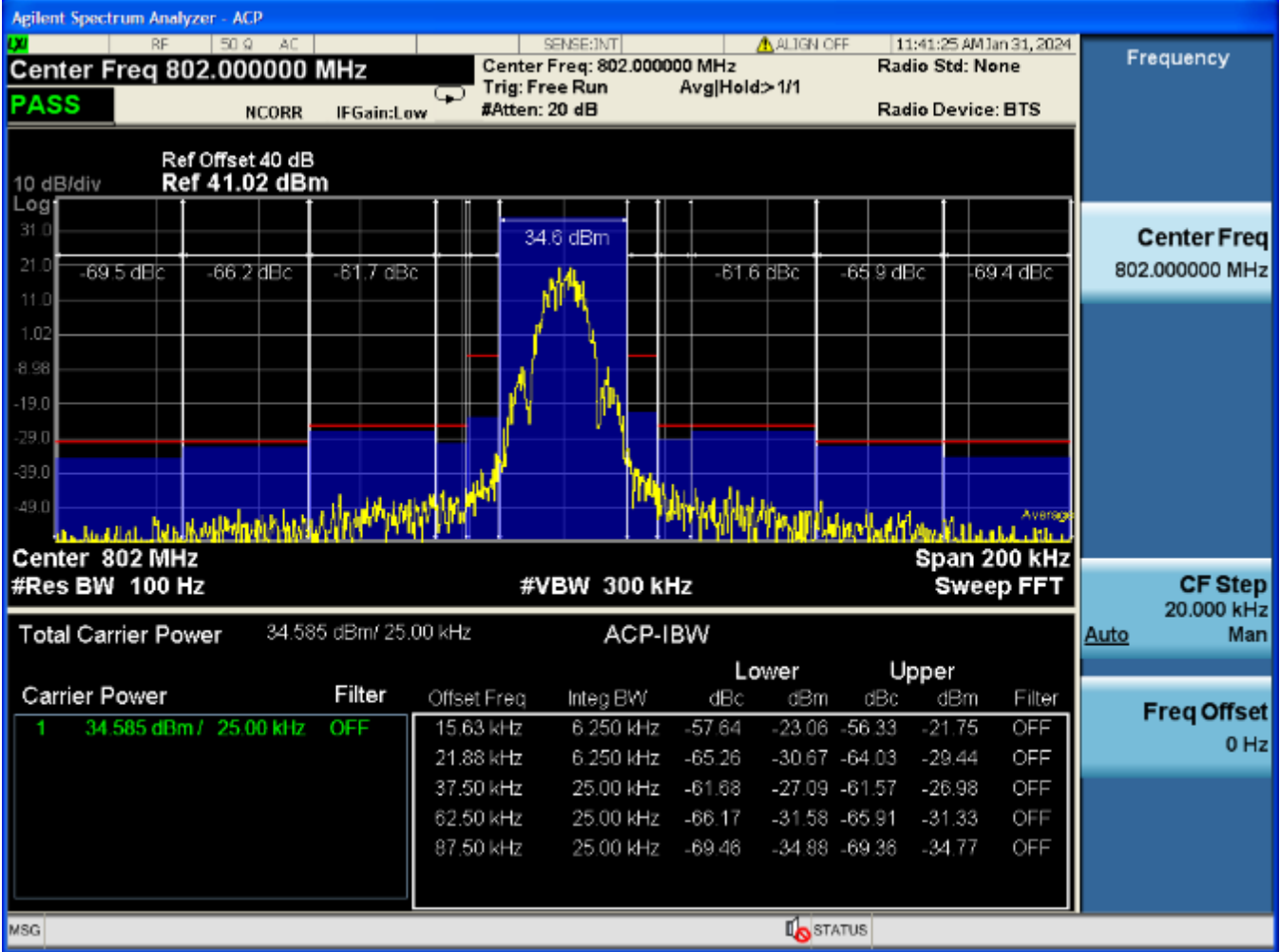


Table 6-23: Adjacent Channel Power – 798.0125 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.4
12 Hz to receive band	30(s)	-75	-106.5
In receive band	30(s)	-100	-106.3

Plot 6-45: Adjacent Channel Power – 802.0000 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-46: Adjacent Channel Power – 802.000000 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

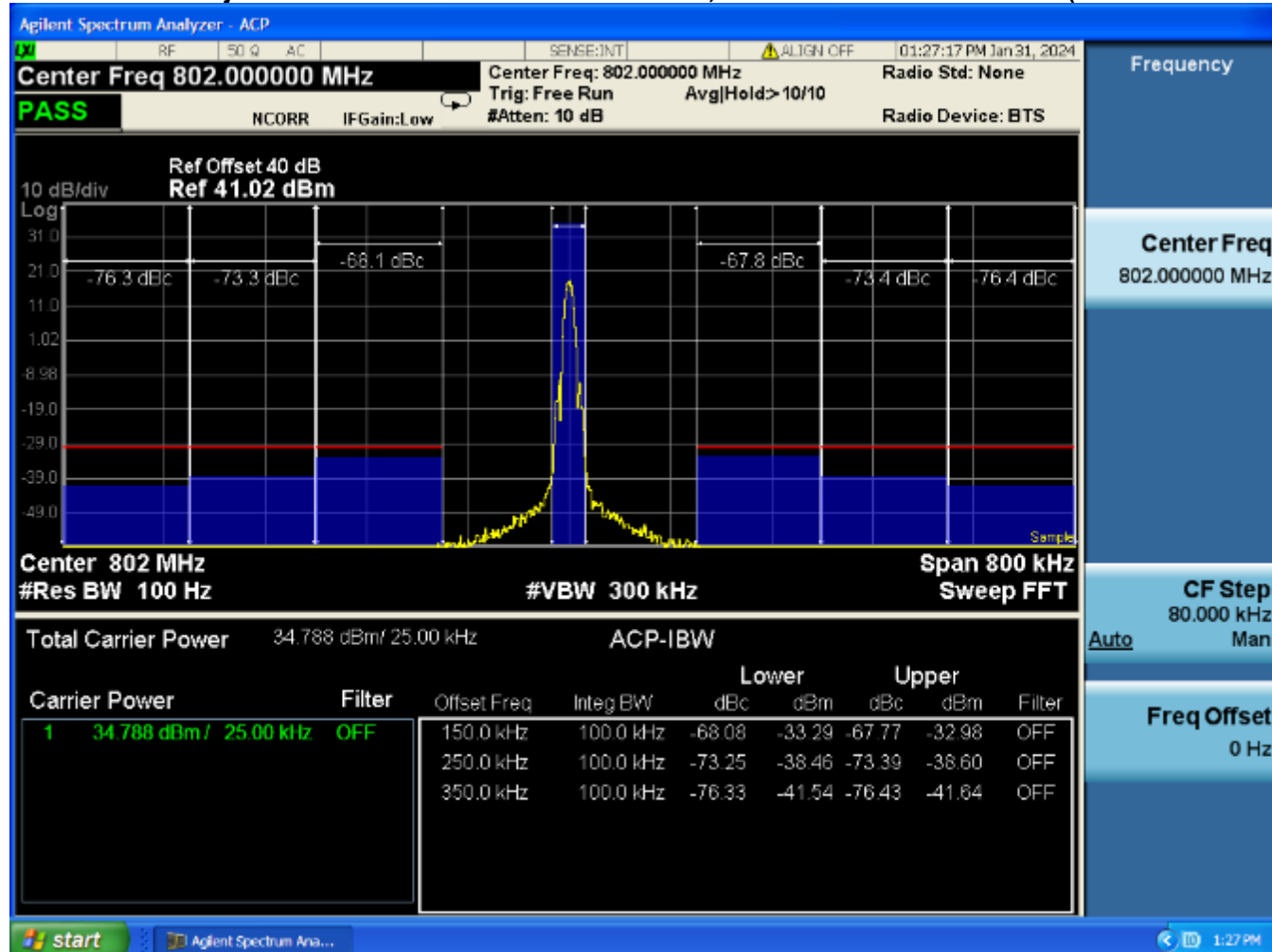
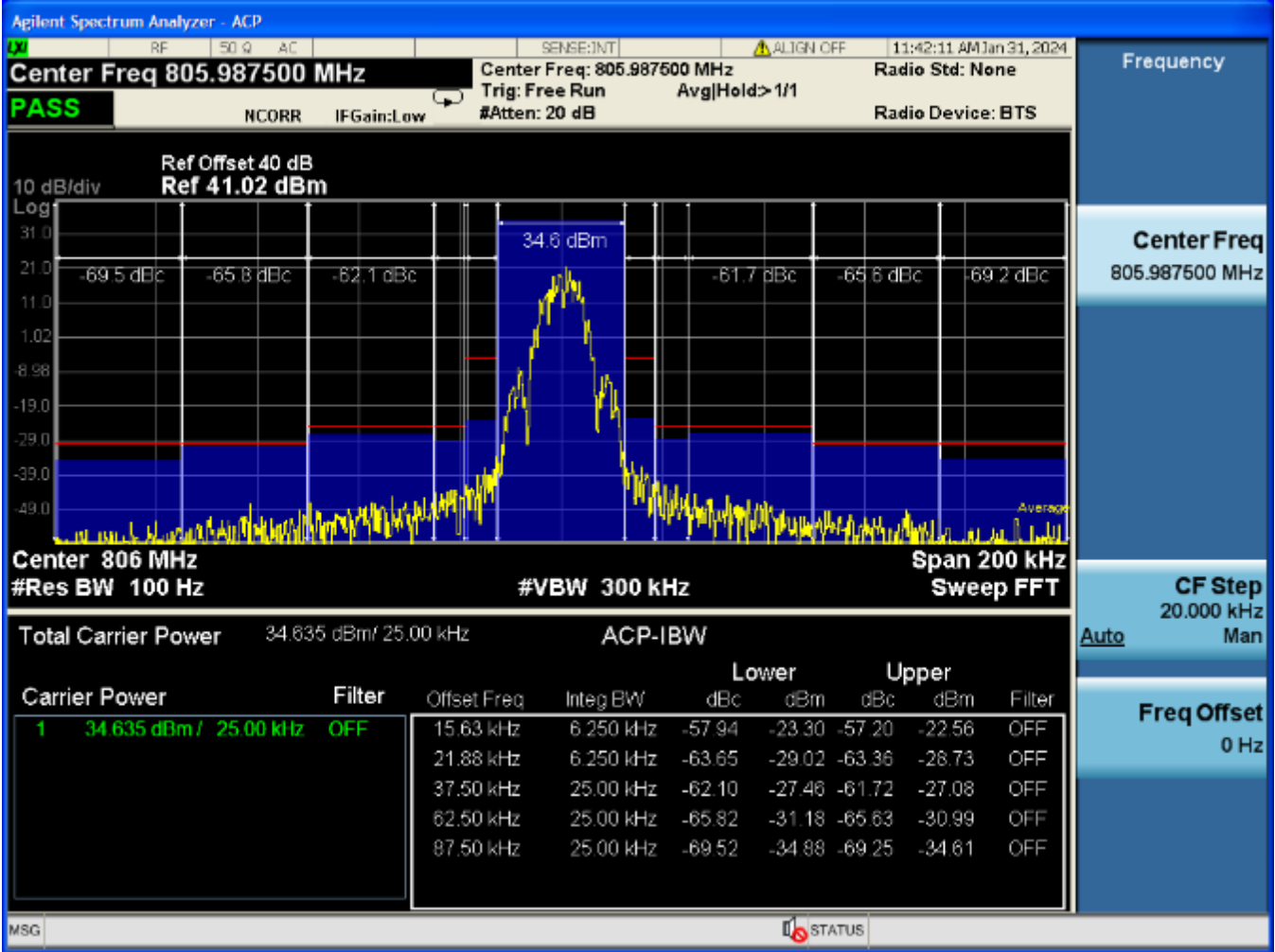


Table 6-24: Adjacent Channel Power – 802.0000 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-104.2
12 Hz to receive band	30(s)	-75	-104.8
In receive band	30(s)	-100	-106.4

Plot 6-47: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-LEVEL FSK 9600 (9.375 kHz - 87.5 kHz)



Plot 6-48: Adjacent Channel Power – 805.987500 MHz; NPSPAC 2-LEVEL FSK 9600 (150 kHz - 350 kHz)

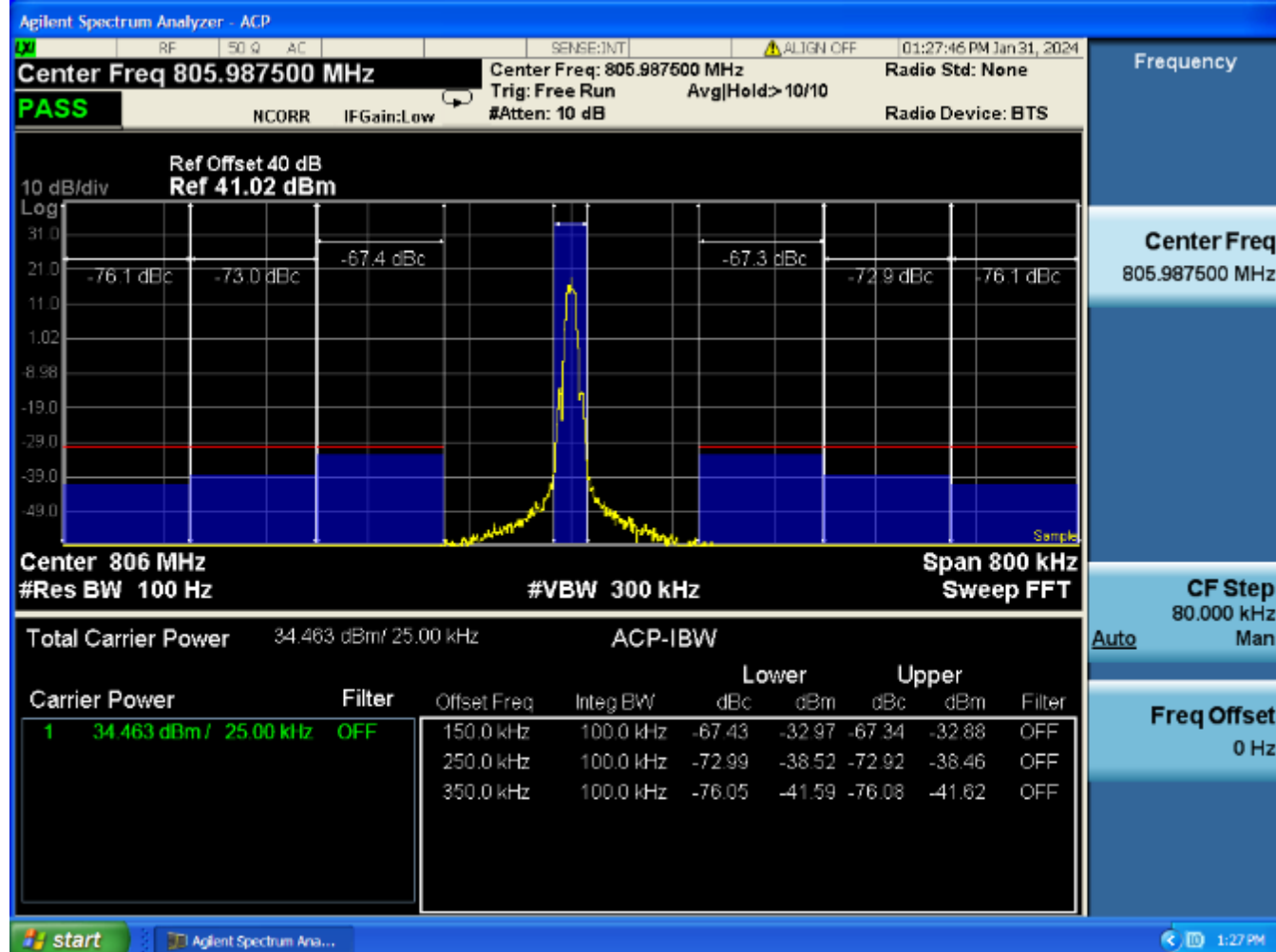
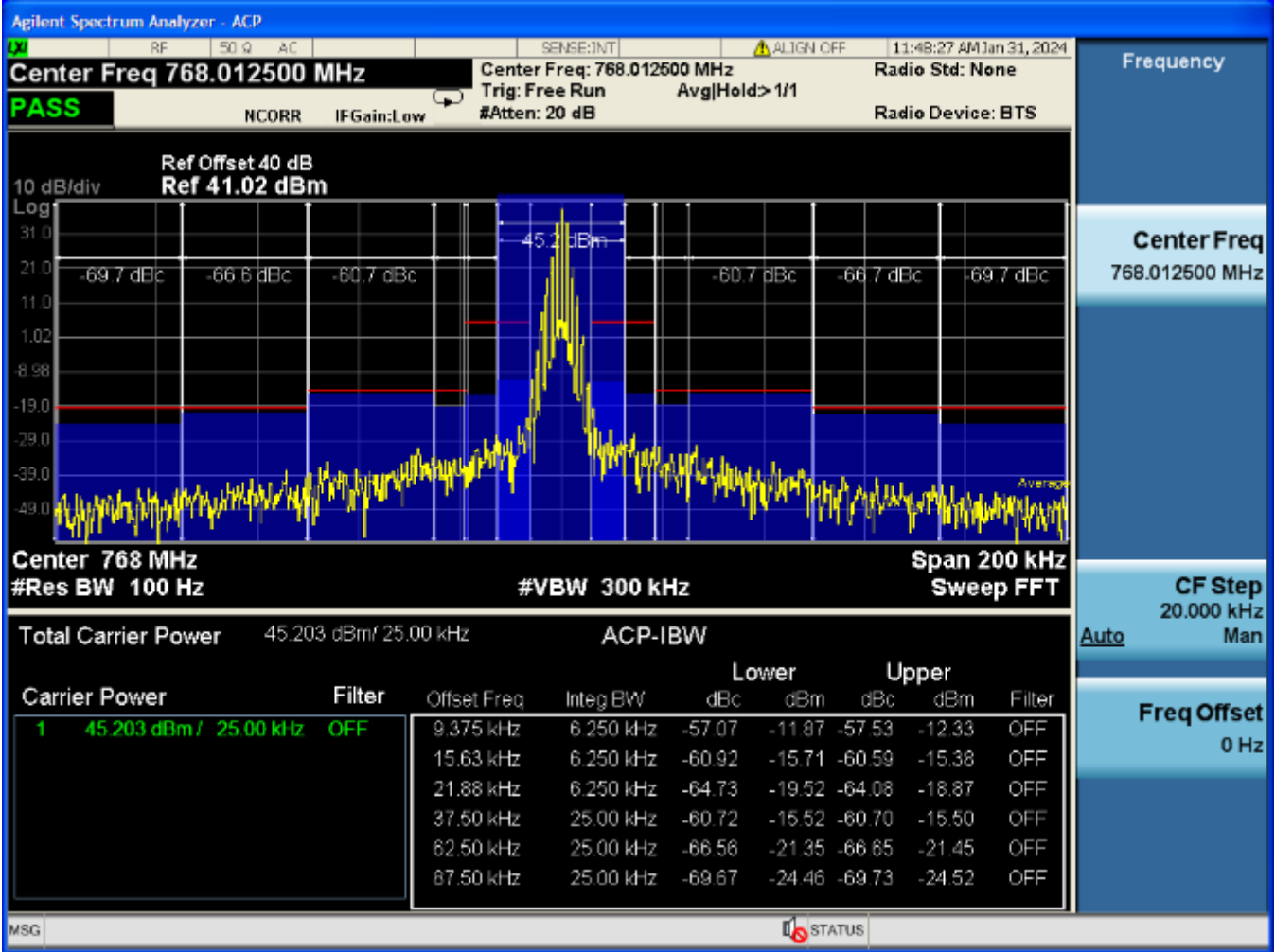


Table 6-25: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-LEVEL FSK 9600 (>400 kHz-RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-93.3
12 Hz to receive band	30(s)	-75	-104.9
In receive band	30(s)	-100	-106.7

Plot 6-49: Adjacent Channel Power – 768.012500 MHz; NB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-50: Adjacent Channel Power – 768.012500 MHz; NB ANALOG (150 kHz - 350 kHz)

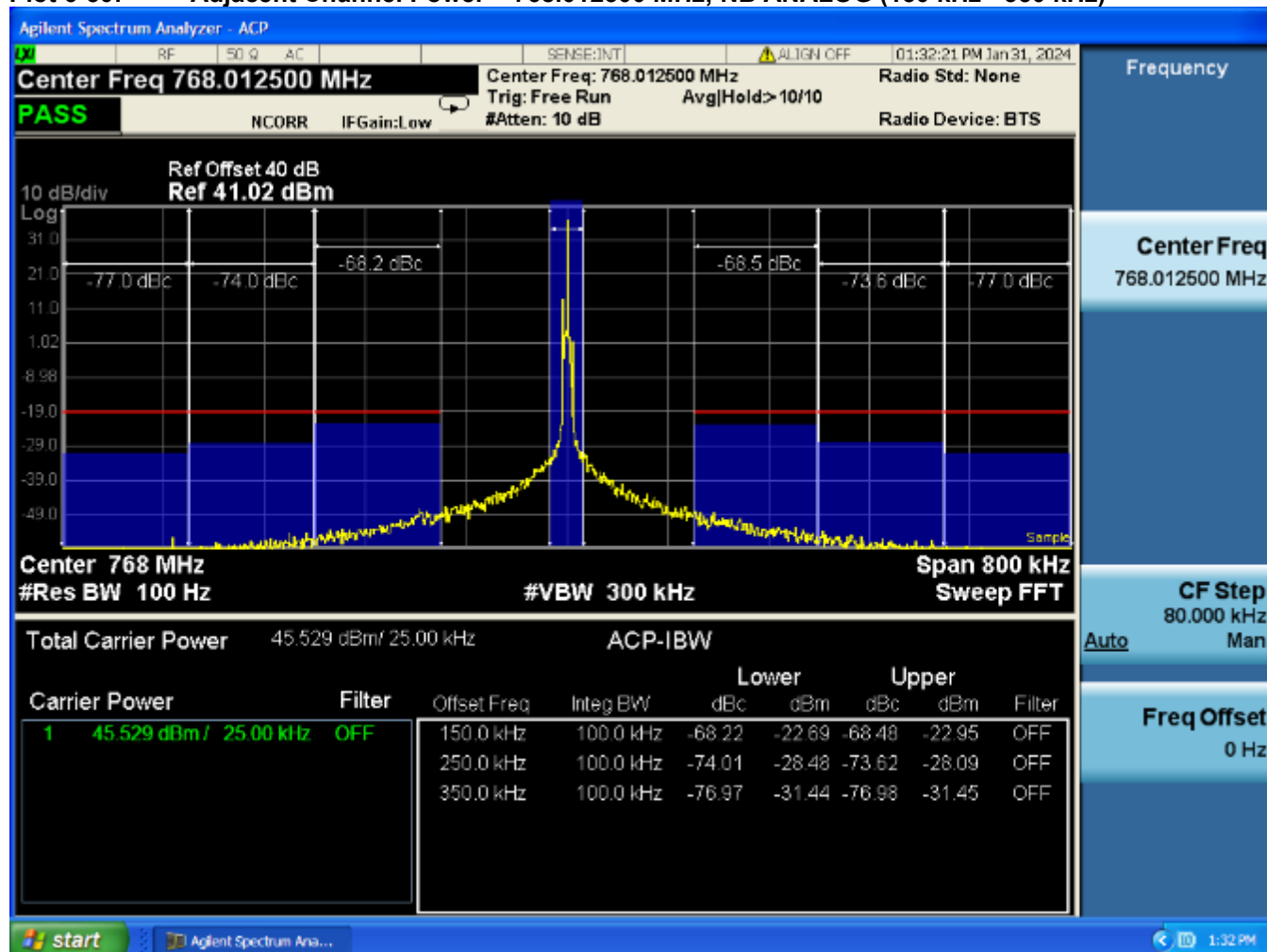
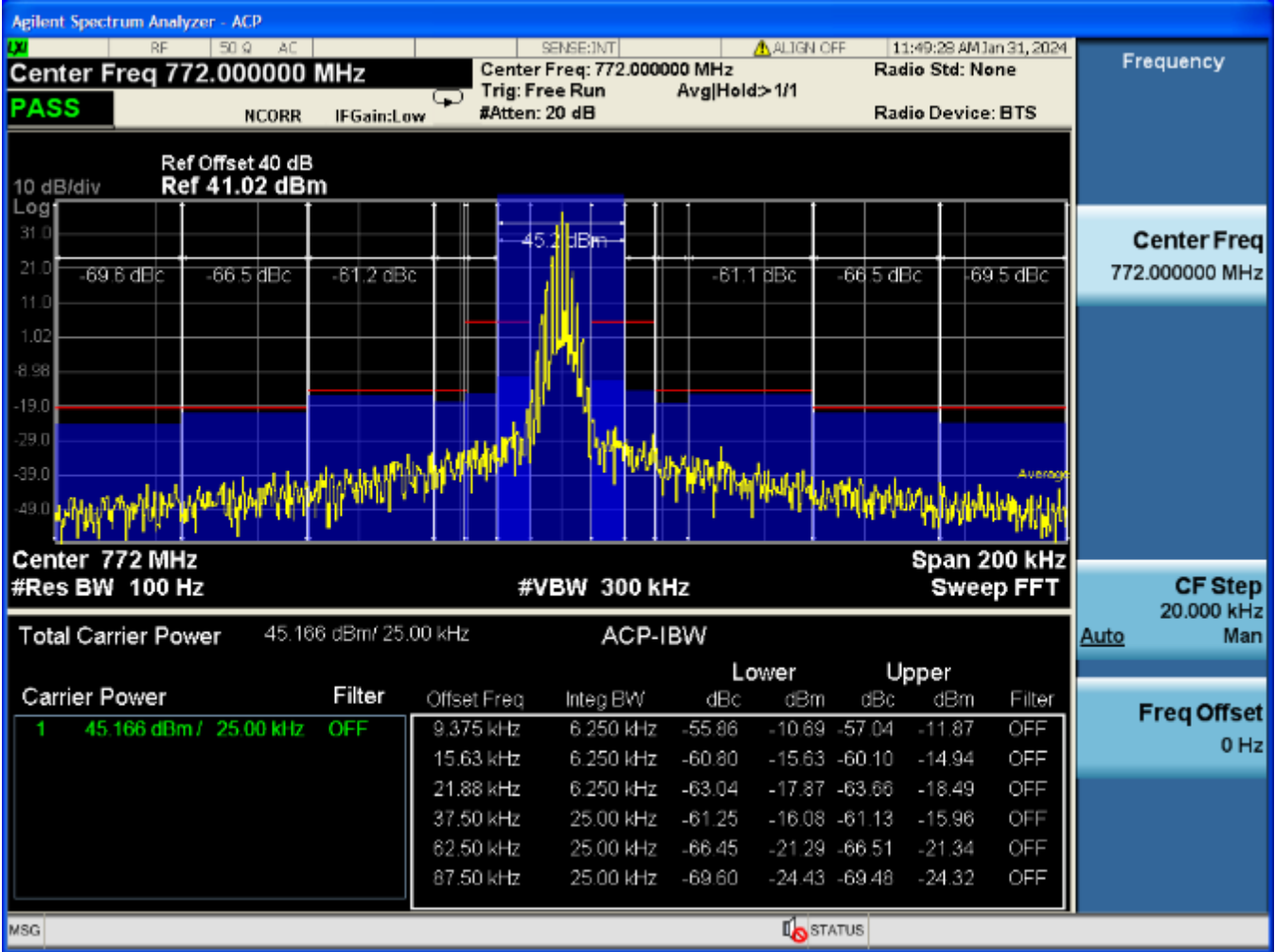


Table 6-26: Adjacent Channel Power – 768.012500 MHz; NB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-86.3
12 Hz to receive band	30(s)	-75	-99.7
In receive band	30(s)	-100	-102.1

Plot 6-51: Adjacent Channel Power – 772.000000 MHz; NB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-52: Adjacent Channel Power – 772.000000 MHz; NB ANALOG (150 kHz - 350 kHz)

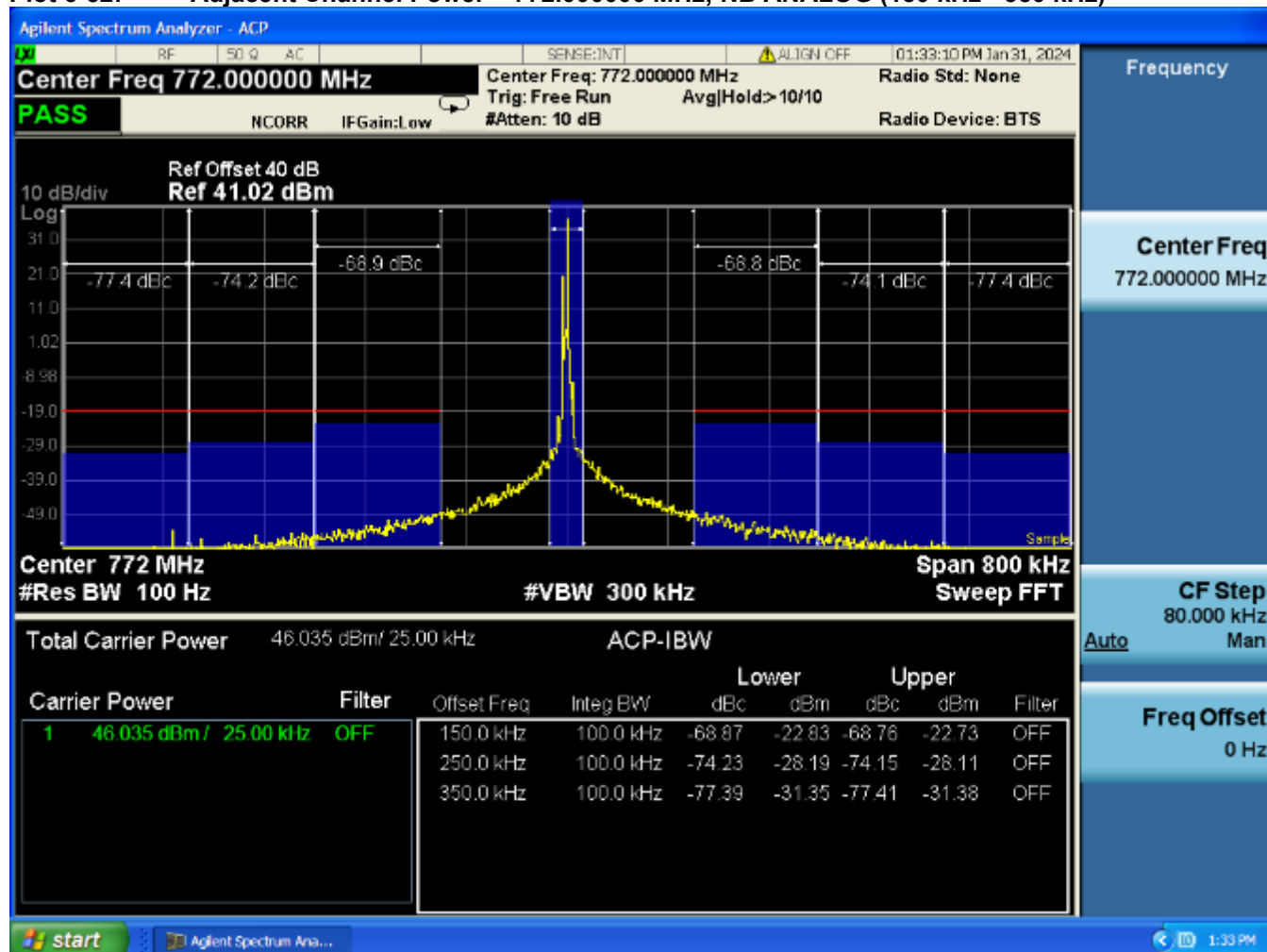
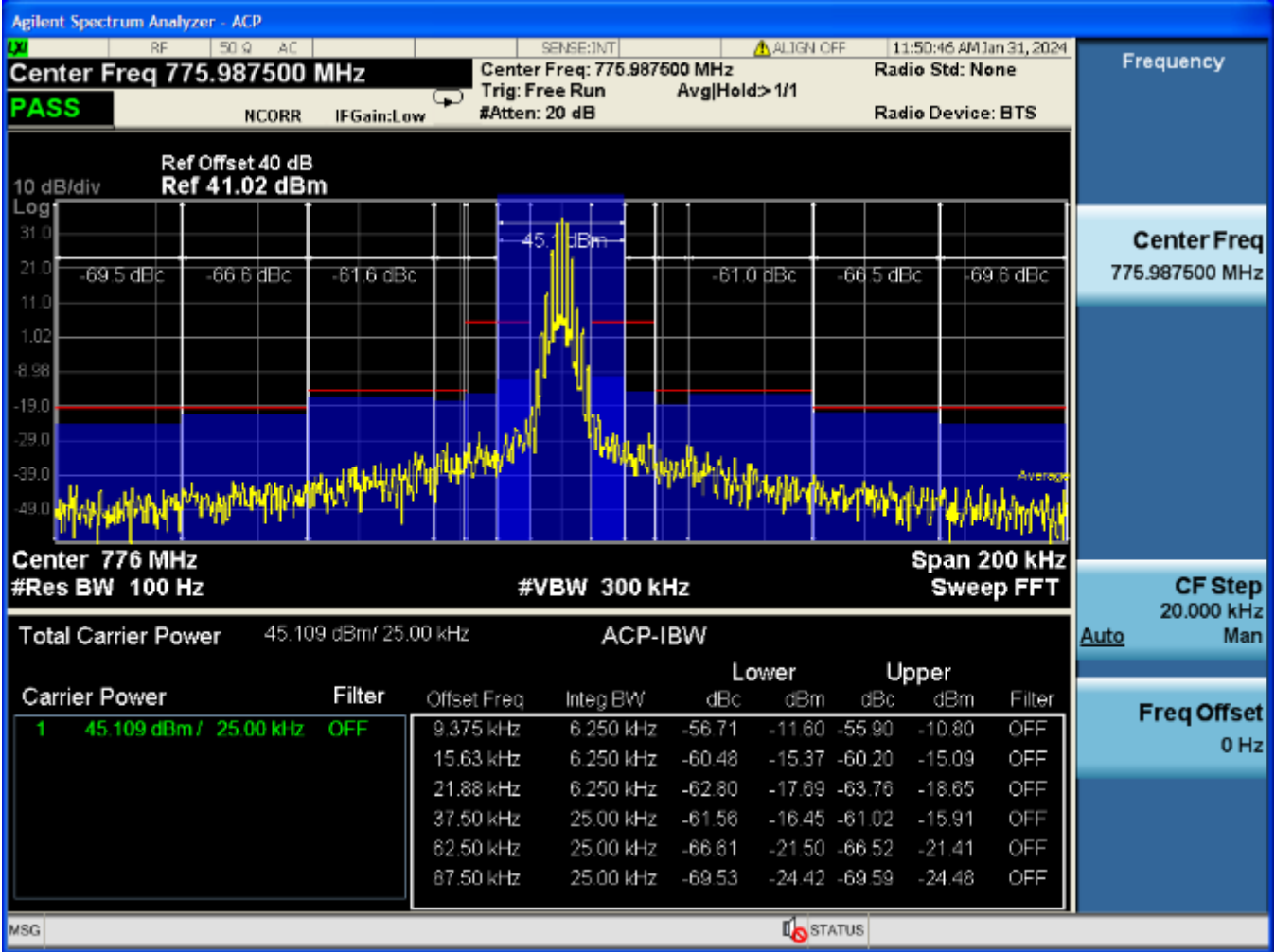


Table 6-27: Adjacent Channel Power – 772.000000 MHz; NB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-85.6
12 Hz to receive band	30(s)	-75	-100.1
In receive band	30(s)	-100	-101.6

Plot 6-53: Adjacent Channel Power – 775.987500 MHz; NB ANALOG (9.375 kHz - 87.5 kHz)



Plot 6-54: Adjacent Channel Power – 775.987500 MHz; NB ANALOG (150 kHz - 350 kHz)

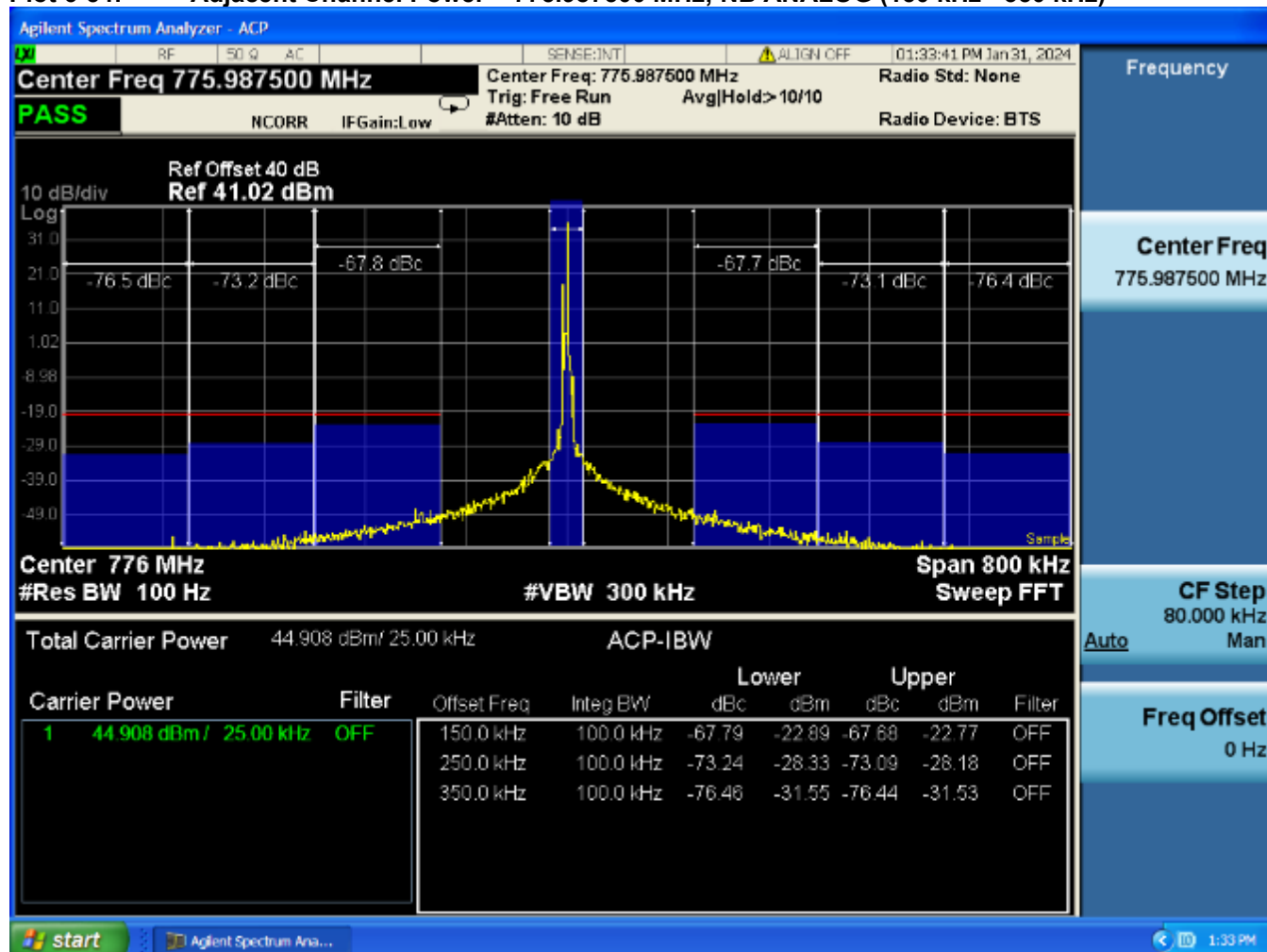


Table 6-28: Adjacent Channel Power – 775.987500 MHz; NB ANALOG (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 Hz	30(s)	-75	-85.8
12 Hz to receive band	30(s)	-75	-100.7
In receive band	30(s)	-100	-101.1