
Japan Radio Test Report

Report No.: AGC01742230602TE01A

PRODUCT DESIGNATION : Bone Conduction Open Ear Wireless Headphones

BRAND NAME : N/A

MODEL NO. : HP-HS6B

APPLICANT : LETOP JAPAN CO., LTD.

DATE OF ISSUE : Jan. 06, 2026

STANDARD(S) : Article 2 Paragraph 1 Item 19 of the Certification,
Article 49.20 of Ordinance Regulating Radio Equipment
MIC Notice No.88 Appendix No.43

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 06, 2026	Valid	Initial release

Note: The original test report AGC01742230602TE01 (dated Jun. 28, 2023 and tested from Jun. 26, 2023 to Jun. 28, 2023) was modified on Jan. 06, 2026, including the following changes and additions:

- Changed the name and address of the applicant;
- Changed the model name;
- Deleted the brand name;

For above described changes, no further testing is necessary.

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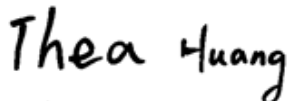
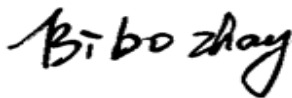
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1. VERIFICATION OF CONFORMITY

Applicant	LETOP JAPAN CO., LTD.
Address	kawaraguchi9-7, kashibashi, nara 639-0225
Manufacturer	Shenzhen Letop Innovations Company Limited
Address	615, Building 4, Anhua Industrial Zone, Chegongmiao, Futian District, Shenzhen 518048, China
Factory	Huizhou Tantu Technology Co., Ltd.
Address	1301, Building C, Meilin Yuge, No. 59 Eling South Road, Huizhou City Guangdong China
Product Designation	Bone Conduction Open Ear Wireless Headphones
Brand Name	N/A
Model Name	HP-HS6B
Date of receipt of test item	Dec. 30, 2025
Date of test	Refer to page 2.
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-JP-BR/RF

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Thea Huang (Project Engineer)	Jan. 06, 2026
Reviewed By		
	Bibo Zhang (Reviewer)	Jan. 06, 2026
Approved By		
	Angela Li (Authorized Officer)	Jan. 06, 2026

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The following data is based on the information by the applicant.

Operating Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V5.0
Modulation	GFSK, π /4-DQPSK, 8DPSK
Hardware Version	V1.0
Software Version	V1.0
Antenna Type	PCB Antenna
Number of channels	79 Channels
Antenna Gain	2.66dBi
Conducted Power Density	0.023mW/MHz
Rated RF Output Power Density	0.030mW/MHz
Test Power	HV: (4.07V) High Voltage + 10% of Normal Voltage LV: (3.33V) Low Voltage - 10% of Normal Voltage NV: (3.7V) Normal Voltage

Note:

1. The EUT provides Bluetooth wireless interface operating at 2.4G ISM band (2402MHz-2480MHz). The EUT use Frequency Hopping Spread Spectrum (FHSS) modulation.
2. Only the Bluetooth was tested according to the standard requirement.
3. Please refer to Appendix B for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.
4. Test mode was Low/Middle/High channel for 1, 2, 3Mbps. and only worst mode data recorded in the test report if no any others.
5. The EUT doesn't support BLE.

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2.2. CHANNEL LIST

Channel	Frequency (GHz)	Channel	Frequency (GHz)
00	2.402	41	2.443
01	2.403	42	2.444
02	2.404	43	2.445
03	2.405	44	2.446
04	2.406	45	2.447
05	2.407	46	2.448
06	2.408	47	2.449
07	2.409	48	2.450
08	2.410	49	2.451
09	2.411	50	2.452
10	2.412	51	2.453
11	2.413	52	2.454
12	2.414	53	2.455
13	2.415	54	2.456
14	2.416	55	2.457
15	2.417	56	2.458
16	2.418	57	2.459
17	2.419	58	2.460
18	2.420	59	2.461
19	2.421	60	2.462
20	2.422	61	2.463
21	2.423	62	2.464
22	2.424	63	2.465
23	2.425	64	2.466
24	2.426	65	2.467
25	2.427	66	2.468
26	2.428	67	2.469
27	2.429	68	2.470
28	2.430	69	2.471

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29	2.431	70	2.472
30	2.432	71	2.473
31	2.433	72	2.474
32	2.434	73	2.475
33	2.435	74	2.476
34	2.436	75	2.477
35	2.437	76	2.478
36	2.438	77	2.479
37	2.439	78	2.480
38	2.440		
39	2.441		
40	2.442		

2.3. DESCRIPTION OF TEST MODES

The EUT was tested while in a continuous transmitter/receiver mode.

The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all modes to determine worst case levels.

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input AC Power	--	--	--
Input DC Power	3.7	4.07	3.33
Voltage Variation (%)	--	10%	-10%

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100%

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

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2.4. TEST ITEMS AND THE RESULTS

Ordinance Regulating Radio Equipment	Description of Test	Result
Article 5	Frequency Error	Complies
Article 6	Occupied Bandwidth (99%) and Spread-spectrum Bandwidth (90%)	Complies
Article 7	Unwanted Emission Intensity	Complies
Article 49.20 & Article 14	Antenna Power Error	Complies
Article 24	Limitation of Collateral Emission of Receiver	Complies
Article 49.20	Transmission Antenna Gain (EIRP Antenna Power)	Complies
Article 49.20	Transmission Radiation Angle Width (3dB Bandwidth)	Not applicable
Article 9.4	Radio Interference Prevention Capability	Complies
Article 49.20	Hopping Frequency Dwell Time	Complies
Article 49.20	Construction Protection Confirmation	Complies

2.5. ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 5-35°C
- Relative Humidity: 45-85 %
- Atmospheric pressure: 86-106 kPa

2.6. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Radio Frequency	$U_c = \pm 1 \times 10^{-7}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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3. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4. TEST EQUIPMENTS LIST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Signal Generator	Aglient	N5182A	MY50140530	Aug. 03, 2022	Aug. 02, 2023
RF Analog Signal Generator	Aglient	N5171B	MY53050474	Aug. 03, 2022	Aug. 02, 2023
MXG X-Series Vector Signal Generator	Agilent	N5182B	MY53050647	Aug. 03, 2022	Aug. 02, 2023
EXA Signal Analyzer	Agilent	N9020A	MY49100060	Aug. 04, 2022	Aug. 03, 2023
Power Sensor	Aglient	U2021XA	MY54110007	Mar. 03, 2023	Mar. 02, 2024
Power Sensor	Aglient	U2021XA	MY54110009	Mar. 03, 2023	Mar. 02, 2024
Power Meter	R&S	NRVD	8323781027	Mar. 24, 2023	Mar. 23, 2025
HORN ANTENNA	ETS-LINDGREN	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
HORN ANTENNA	ETS-LINDGREN	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
DC Power Supply	AGILENT	E3642A	N/A	Aug. 04, 2022	Aug. 03, 2024

Note: The equipment was calibrated by Guangzhou Lisai Calibration and Testing co., Ltd.

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5. TEST RESULTS

5.1. FREQUENCY ERROR MEASUREMENT

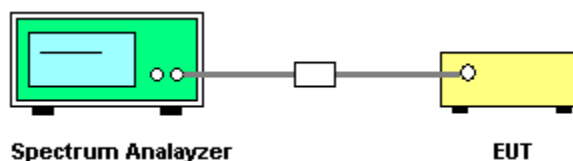
5.1.1. LIMIT

Item	Limits
Frequency Tolerance	$-50\text{ppm} \leq \text{Frequency Error} \leq 50\text{ppm}$

5.1.2. TEST PROCEDURES

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
2. Setting of SA is following as: RB: 10kHz / VB: 10kHz / SPAN: 0.5MHz
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time=Auto
5. Sweep mode=Continuous sweep
6. Detect mode=Positive peak
7. EUT have transmitted absence of modulation signal and fixed channelize. if is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency.
8. Then the frequency tolerance formula is $(f_c - f) / f_c \times 10^6 \text{ppm}$ and the limit is less than $\pm 50\text{ppm}$

5.1.3. TEST SETUP LAYOUT



5.1.4. TEST DEVIATION

There is no deviation with the original standard.

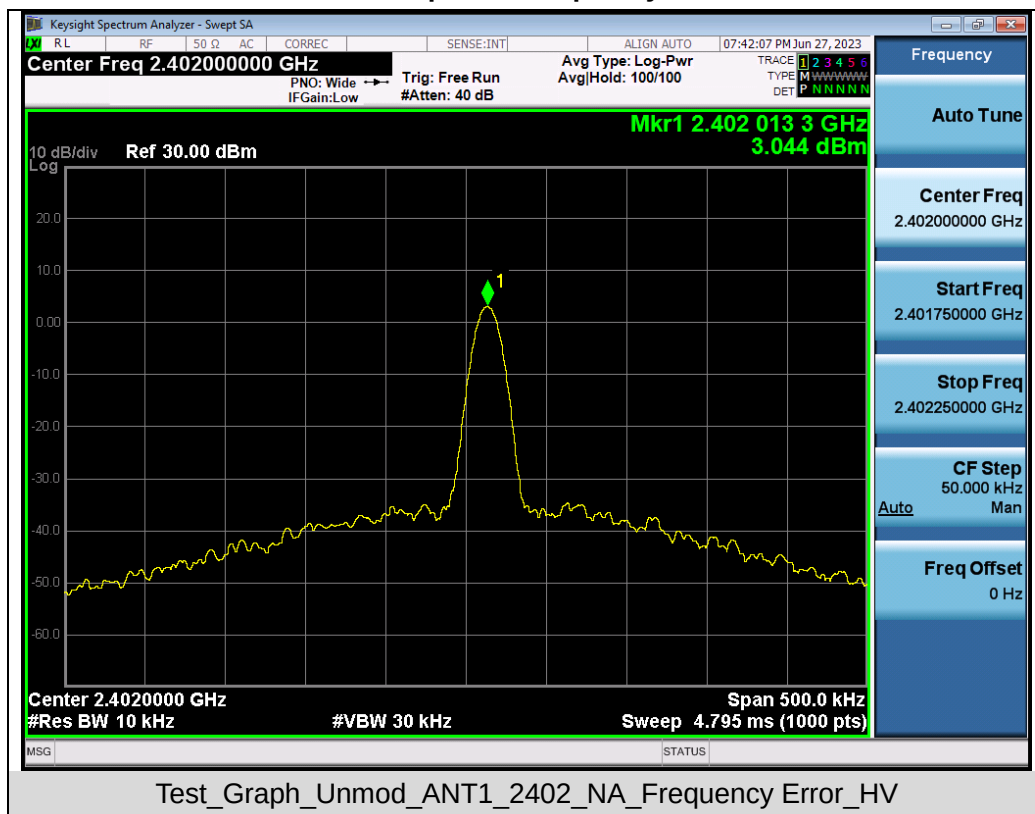
5.1.5. EUT OPERATION DURING TEST

The EUT was placed on the test table and programmed in un-modulation function.

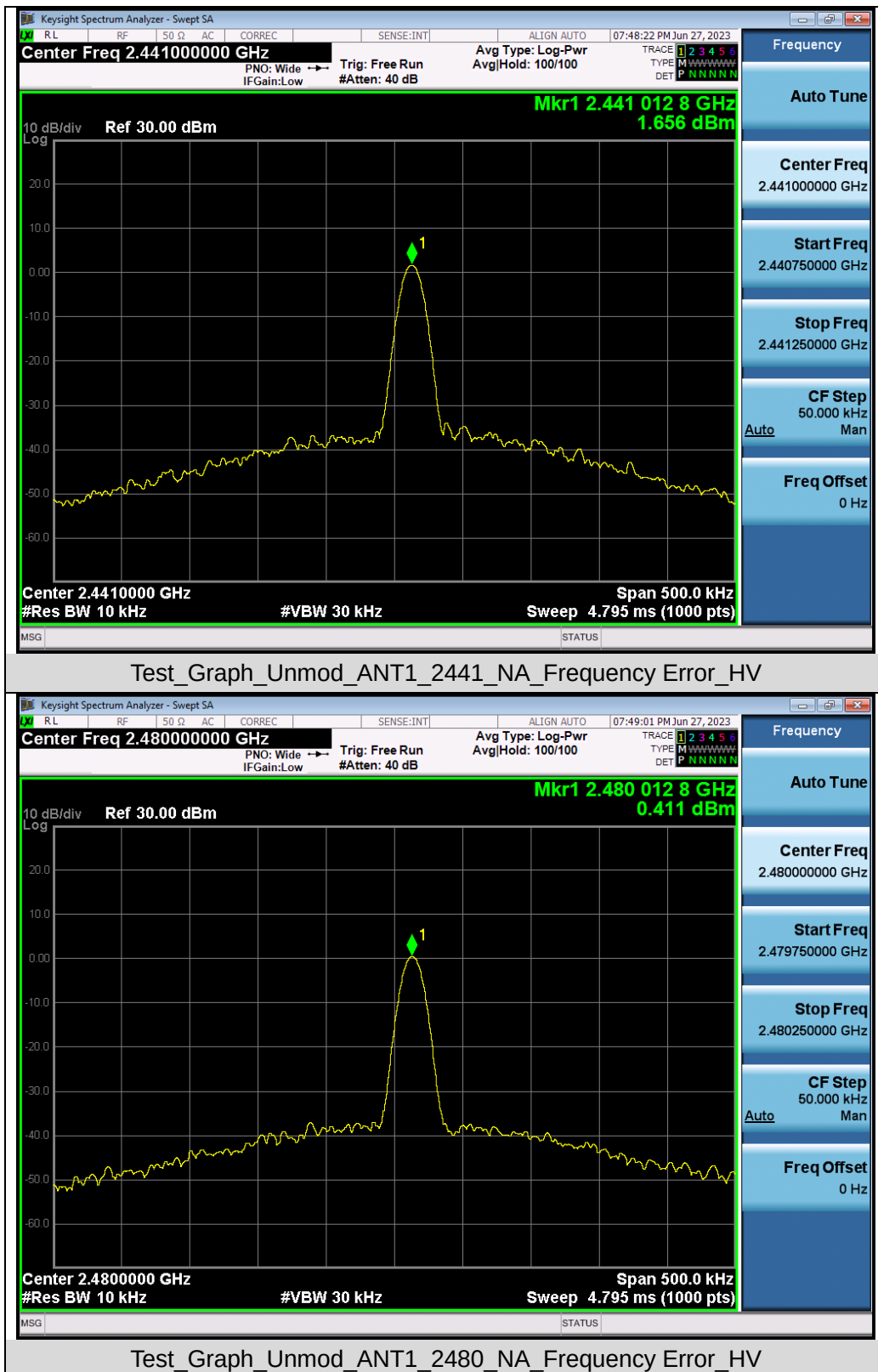
5.1.6. RESULTS OF FREQUENCY ERROR

Test Data of Frequency Error									
Test Mode	Test Frequency (MHz)	Measure Frequency (MHz)			Frequency Error (ppm)			Limit (ppm)	P/F
		NV	LV	HV	NV	LV	HV		
Un mod	2402	2402.0138	2402.0133	2402.0133	5.73	5.52	5.52	±50	Pass
	2441	2441.0128	2441.0128	2441.0128	5.23	5.23	5.23	±50	Pass
	2480	2480.0133	2480.0133	2480.0128	5.35	5.35	5.15	±50	Pass

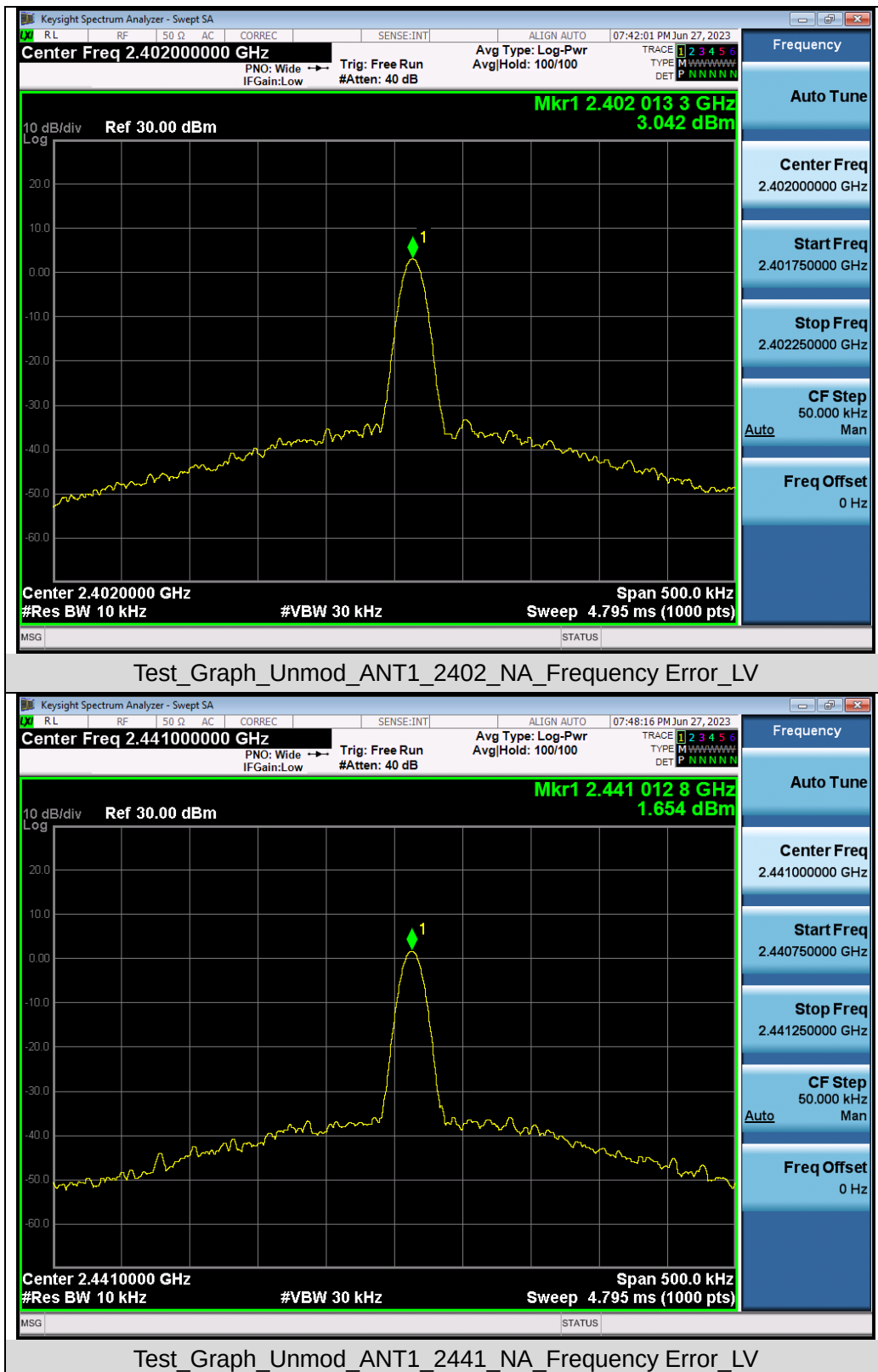
Test Graphs of Frequency Error



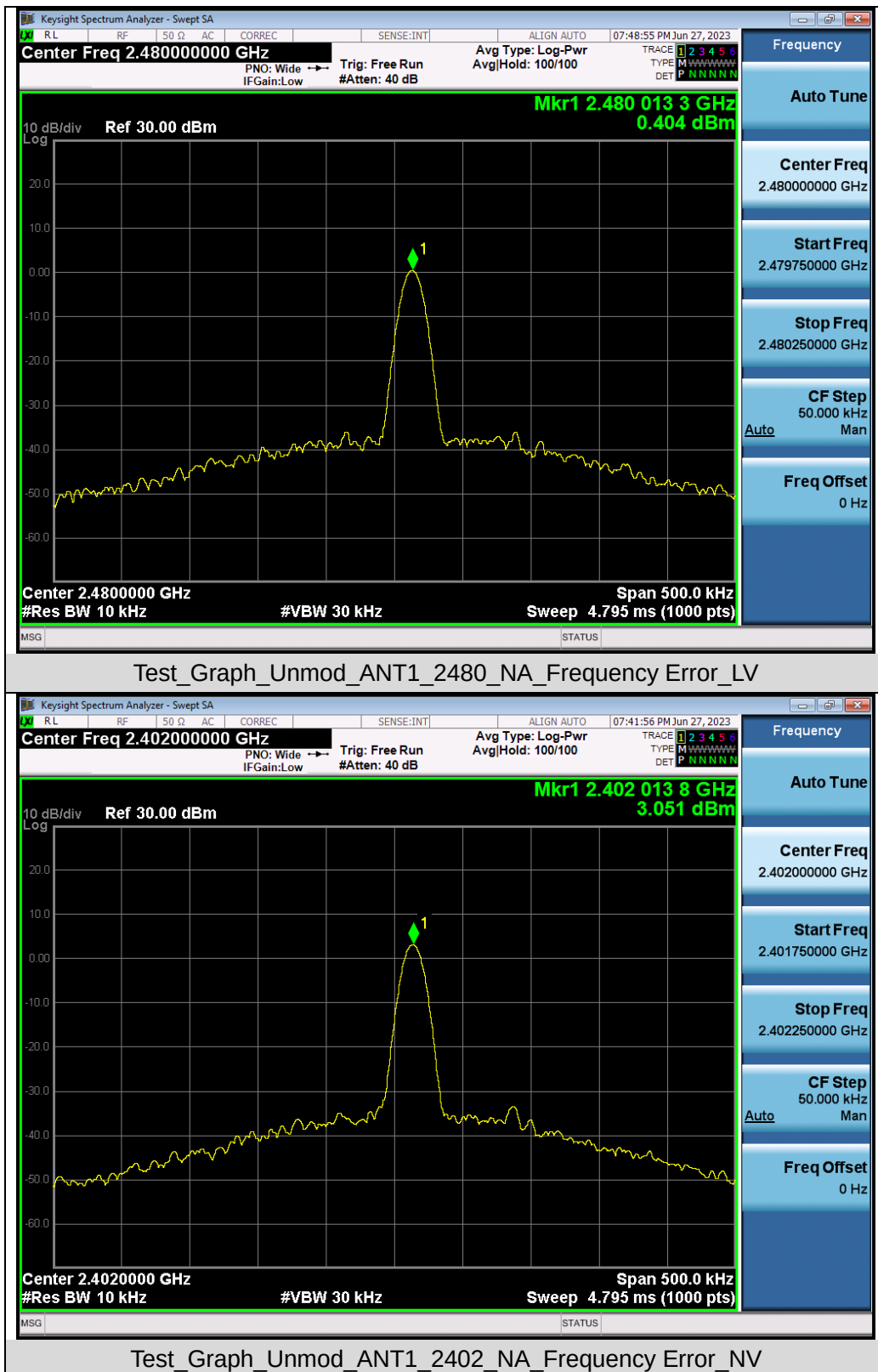
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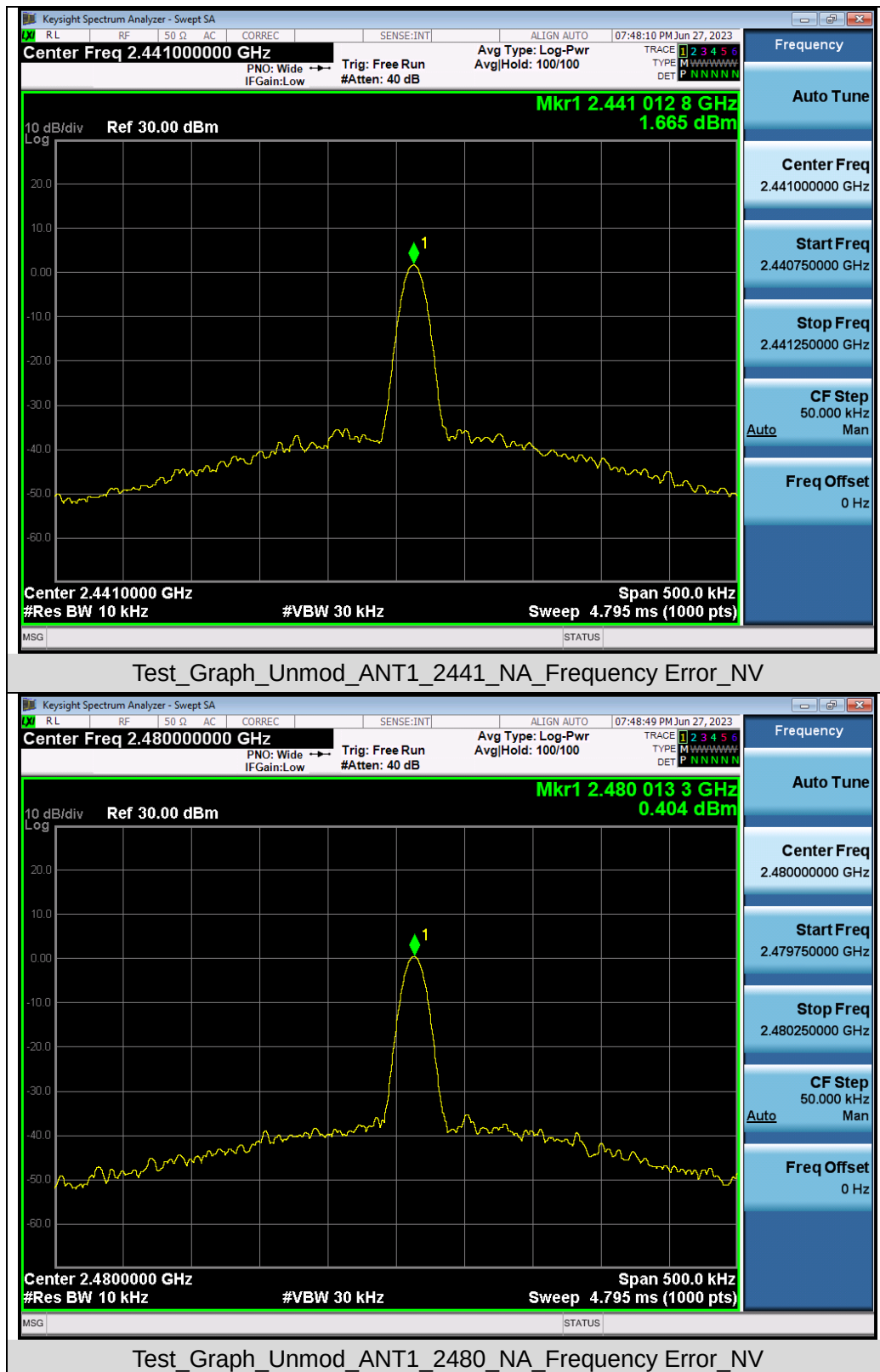
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5.2. OCCUPIED BANDWIDTH AND SPREAD-SPECTRUM BANDWIDTH MEASUREMENT

5.2.1. LIMIT

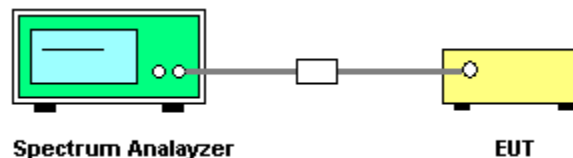
Test Item	Limits
Occupied Bandwidth	FH < 83.5MHz; 26MHz $\leq$ OFDM 40M system $\leq$ 40MHz; OFDM 20M system, DS, Others $\leq$ 26MHz

5.2.2. TEST PROCEDURES

The device under test is connected to the spectrum analyzer through a radio frequency cable and the settings are as follows:

1. EUT have Continuous maximum power of hopping mode (For FHSS Device).
2. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. SA set to 90% of occupied bandwidth to measure spreading bandwidth.
4. RBW=300kHz
5. VBW=300kHz
6. SPAN=100MHz
7. ATT: 20dB /Ref:10dBm (actual sample power adjustment is for reference only)
8. Sweep time=Auto / Sweep Mode: Continuous sweep
9. Detect mode=Positive peak
10. Trace mode=Max hold
11. Record the result for Occupied Bandwidth Measurements in report.

5.2.3. TEST SETUP LAYOUT



5.2.4. TEST DEVIATION

There is no deviation with the original standard.

5.2.5. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

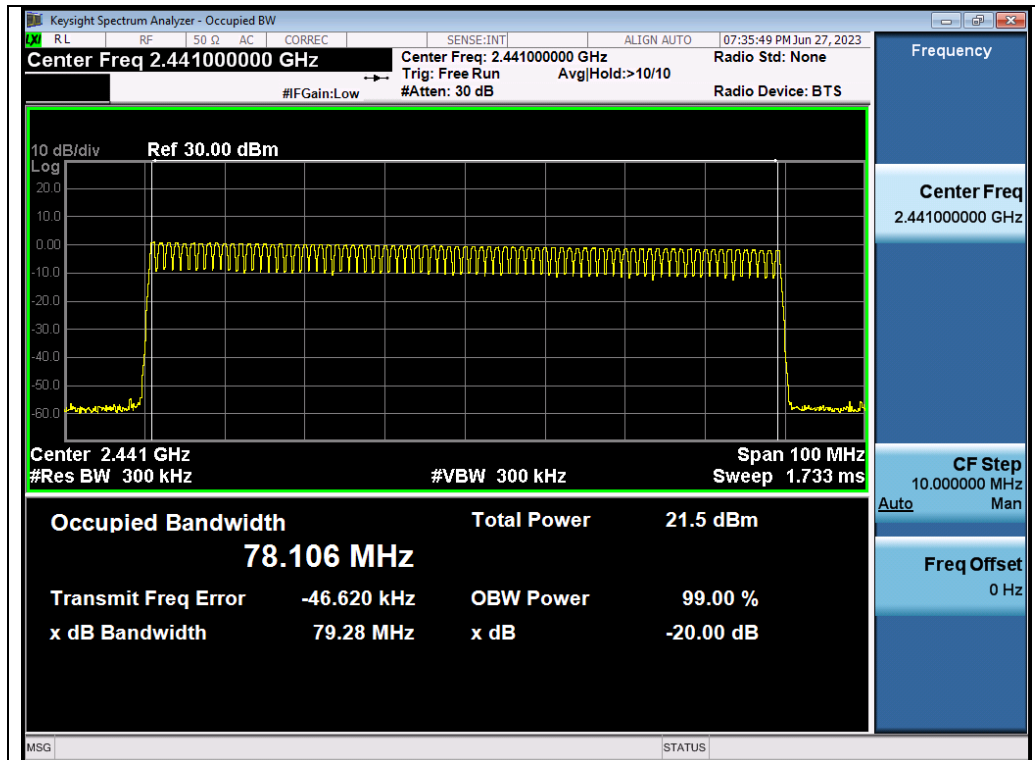
5.2.6. RESULTS OF OCCUPIED BANDWIDTH AND SPREAD-SPECTRUM BANDWIDTH

Test Data of Occupied Bandwidth and Spread Bandwidth									
Test Mode (FHSS)	Occupied Bandwidth (MHz)			Limit (MHz)	Spread Bandwidth (MHz)			Limit (MHz)	P/F
	NV	LV	HV		NV	LV	HV		
GFSK	78.114	78.124	78.106	<83.5	70.765	70.831	70.806	>0.5	Pass
$\pi/4$ -DQPSK	78.275	78.280	78.260	<83.5	70.976	70.602	70.931	>0.5	Pass
8DPSK	78.313	78.236	78.254	<83.5	70.863	70.724	70.874	>0.5	Pass

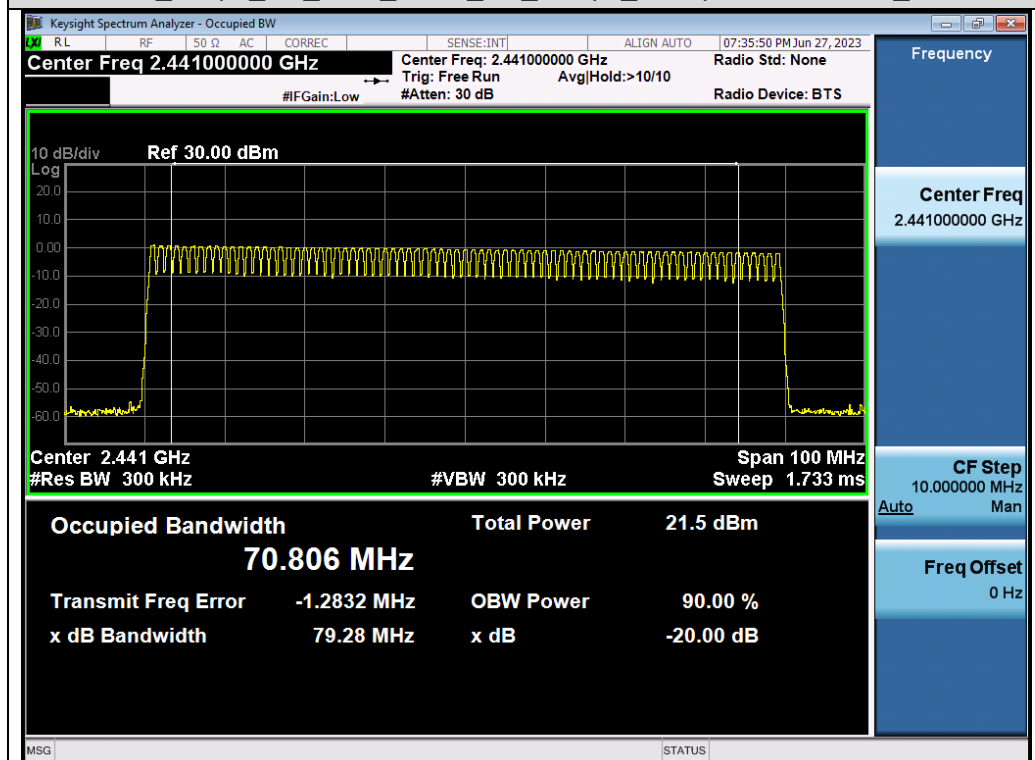
Test Data of Spread Factor					
Test Mode (FHSS)	Spread Factor			Limit	P/F
	NV	LV	HV		
GFSK	70.765	70.831	70.806	>5	Pass
$\pi/4$ -DQPSK	70.976	70.602	70.931	>5	Pass
8DPSK	70.863	70.724	70.874	>5	Pass
Note: Spread Factor = Spread Bandwidth/Modulation Rate					

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Test Graphs of Occupied Bandwidth and Spread Bandwidth

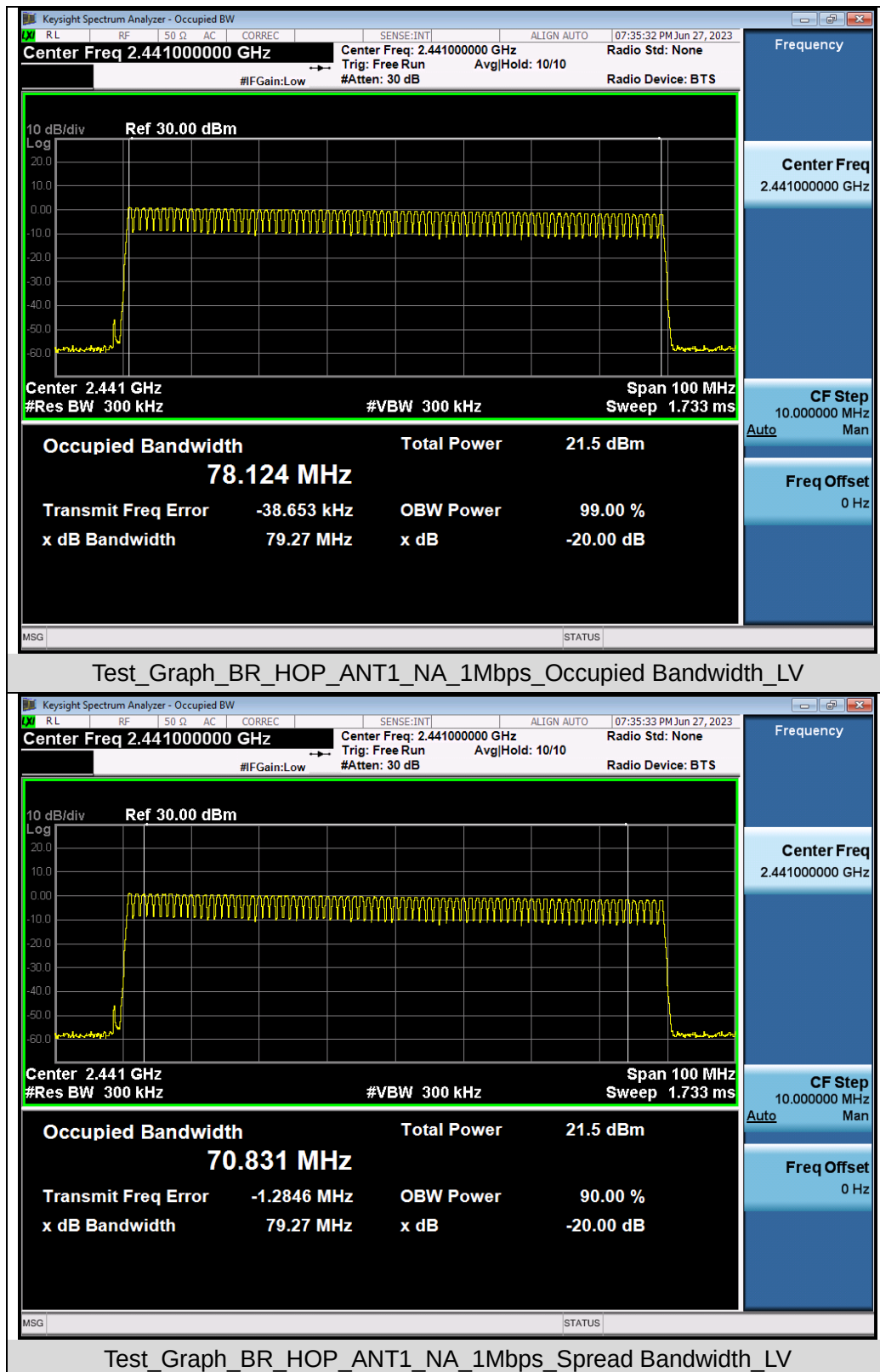


Test_Graph_BR_HOP_ANT1_NA_1Mbps_Occupied Bandwidth_HV

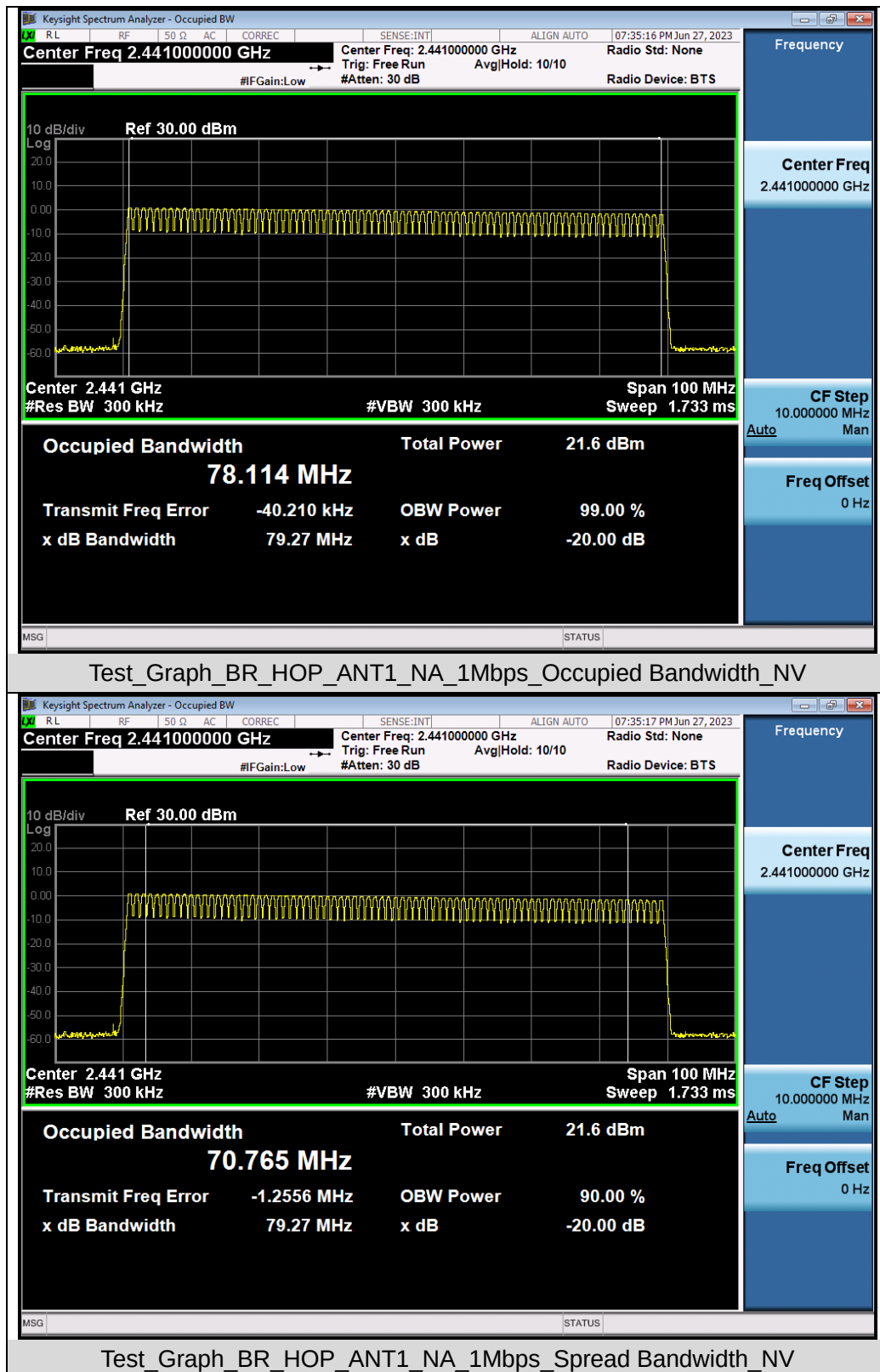


Test_Graph_BR_HOP_ANT1_NA_1Mbps_Spread Bandwidth_HV

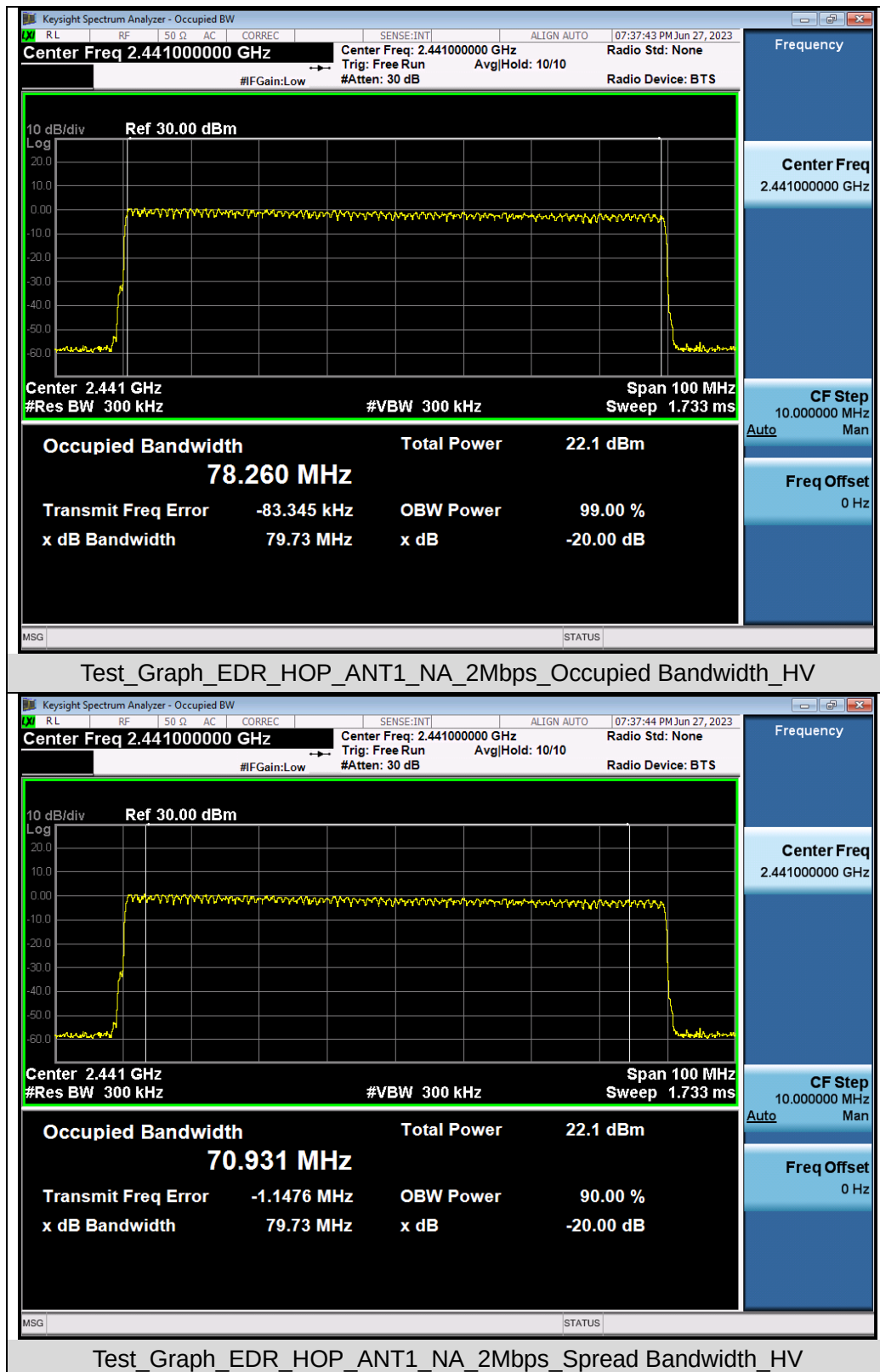
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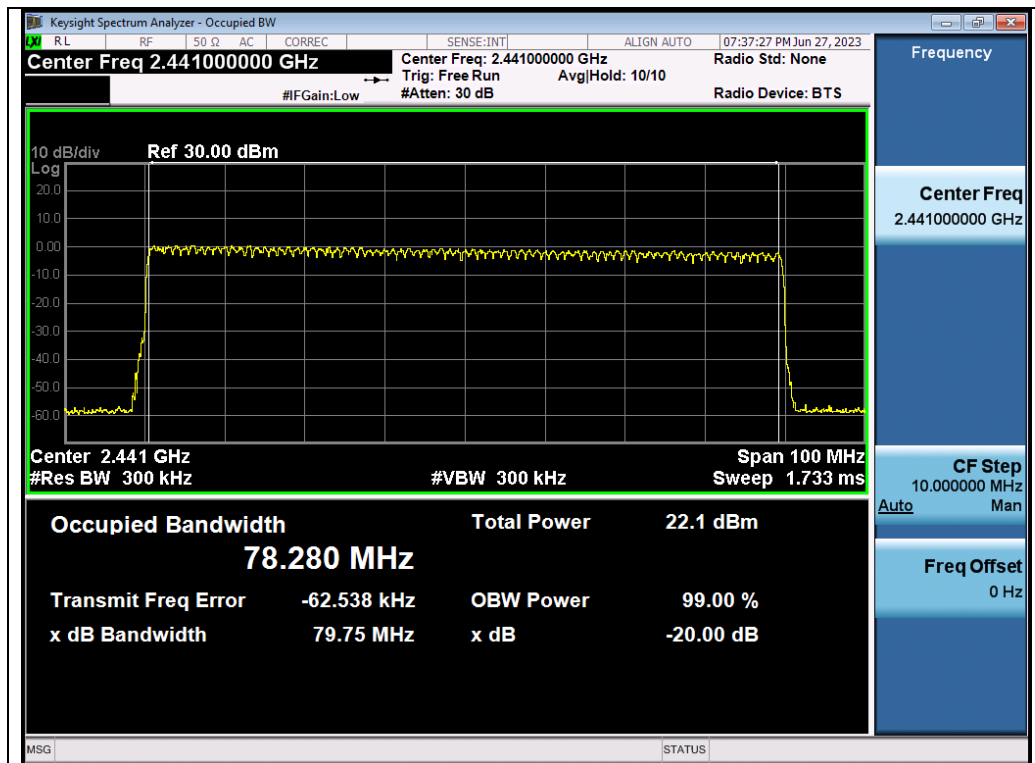
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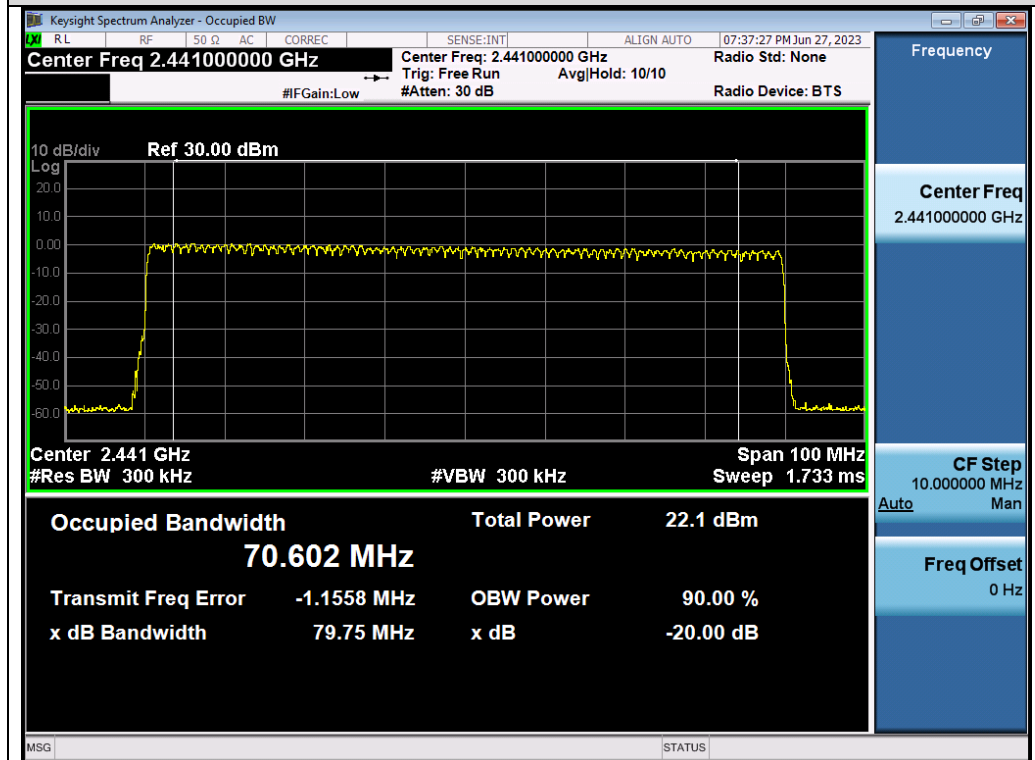
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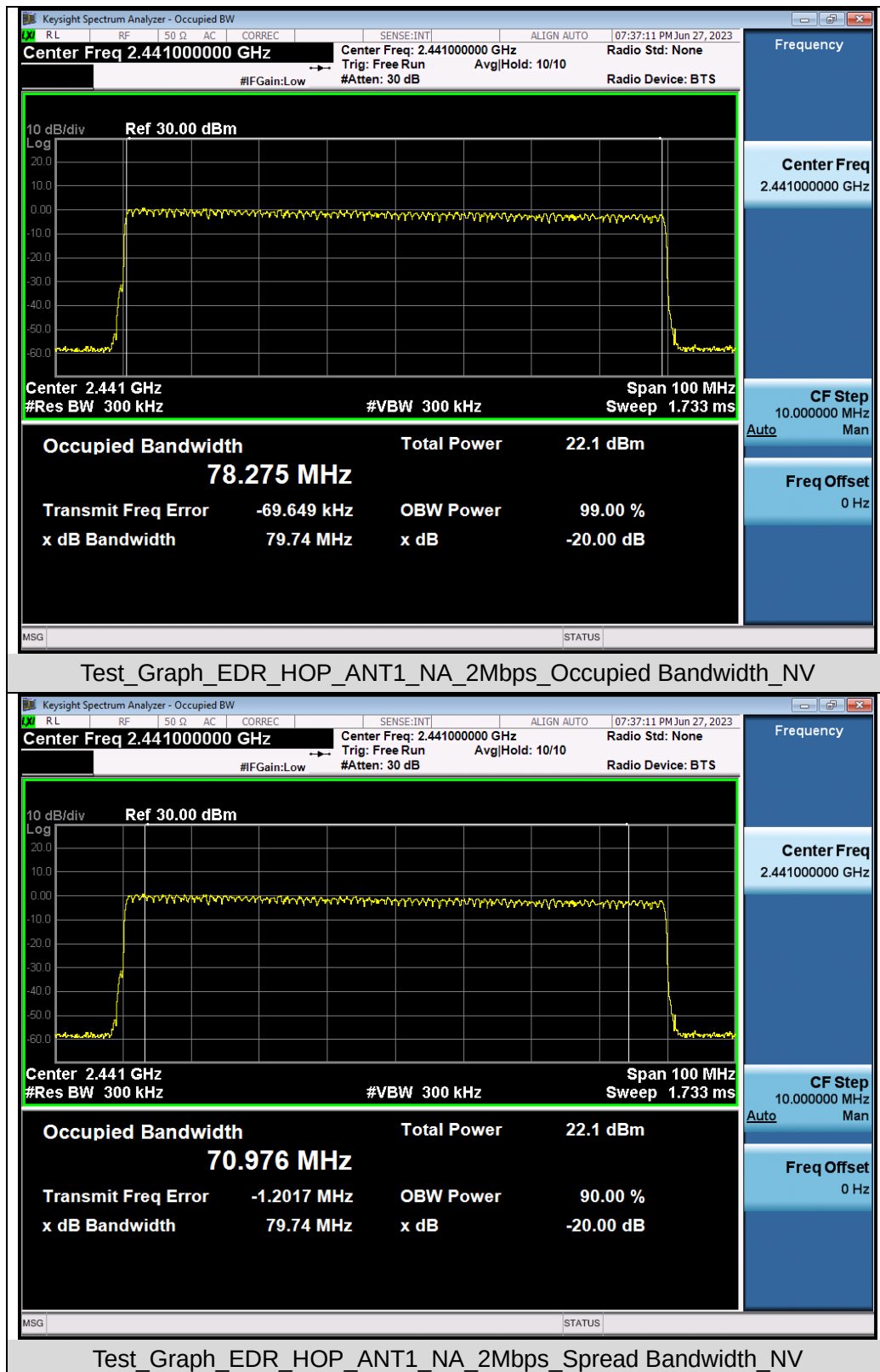


Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Occupied Bandwidth_LV

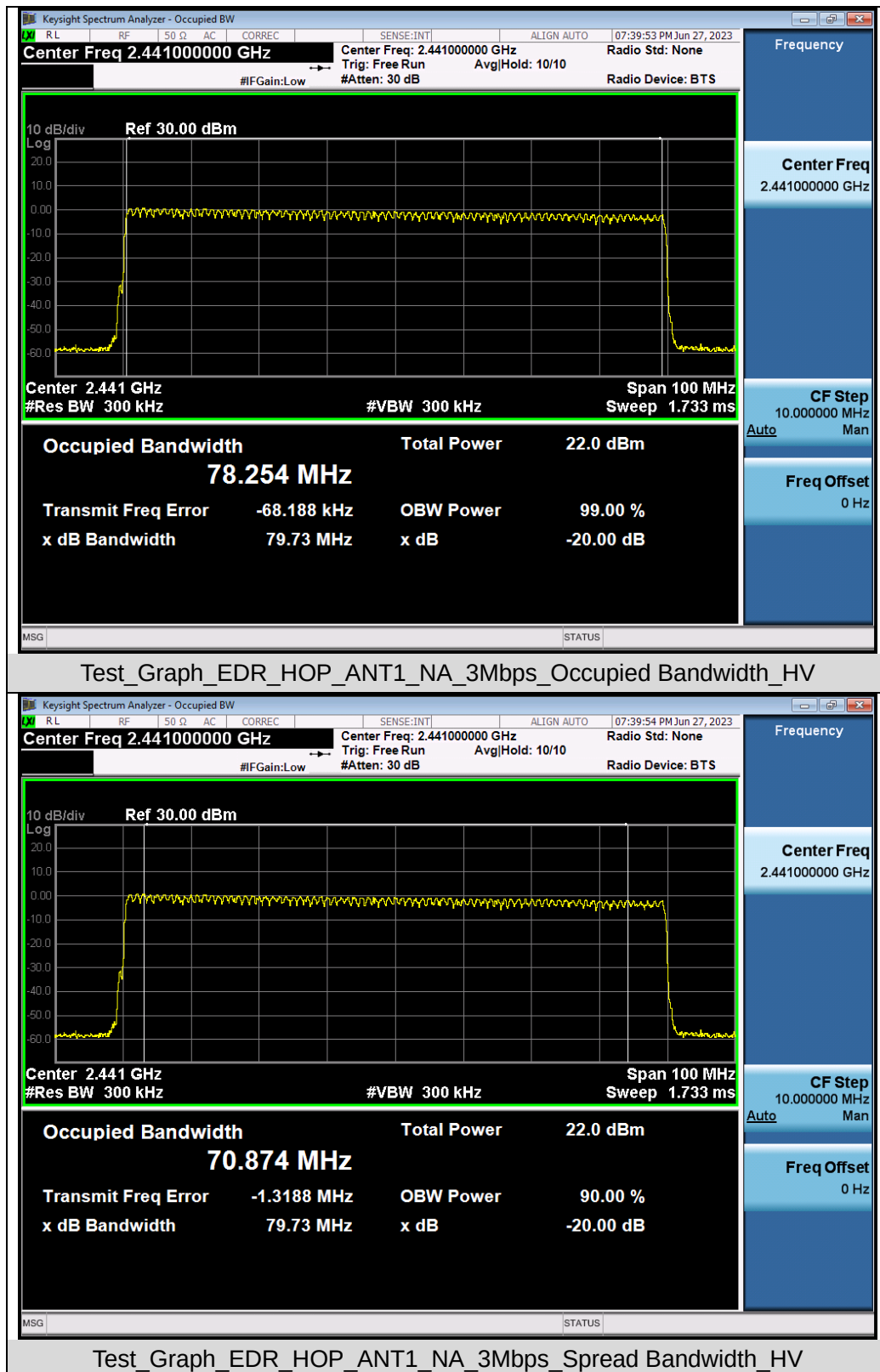


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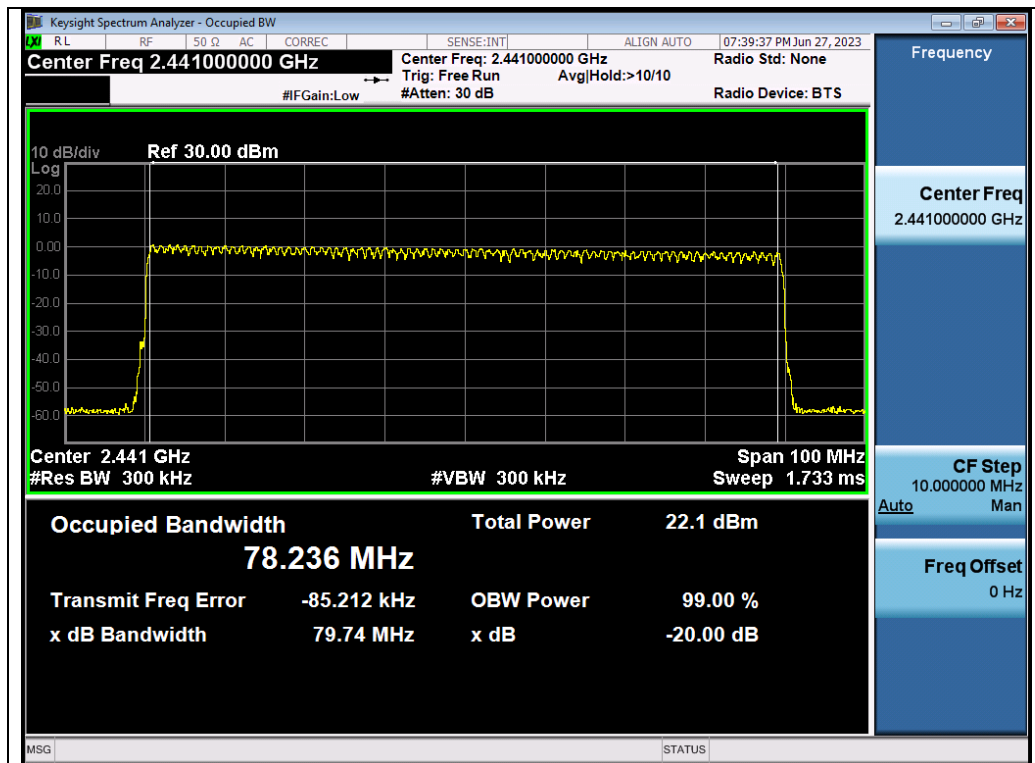
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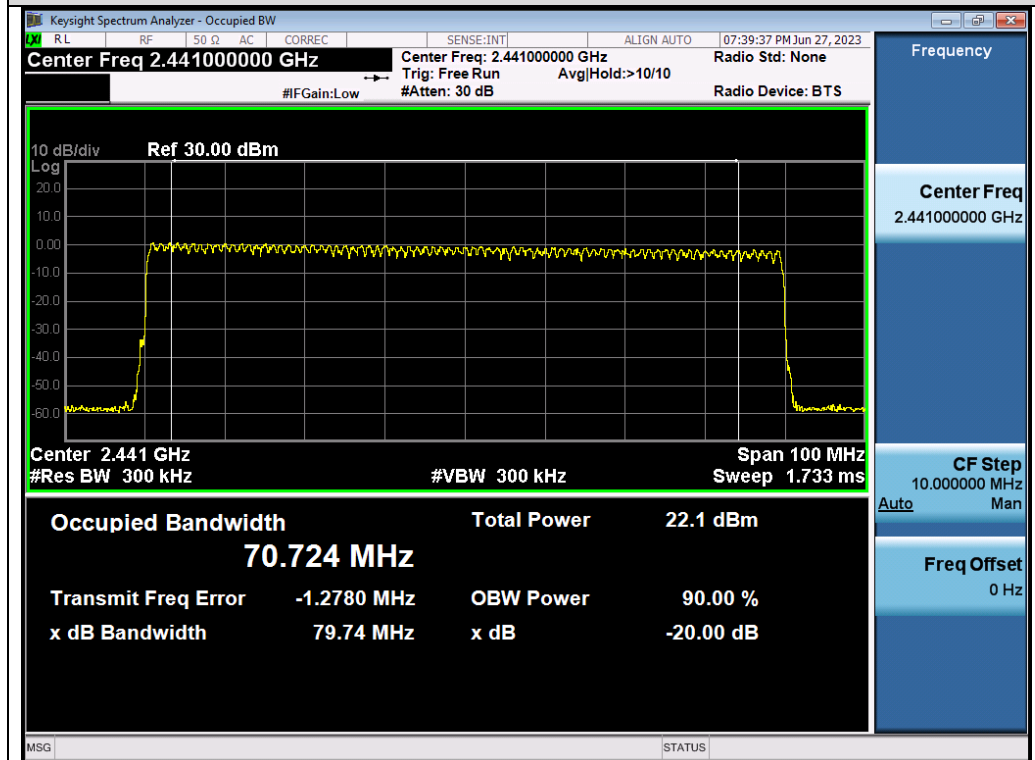
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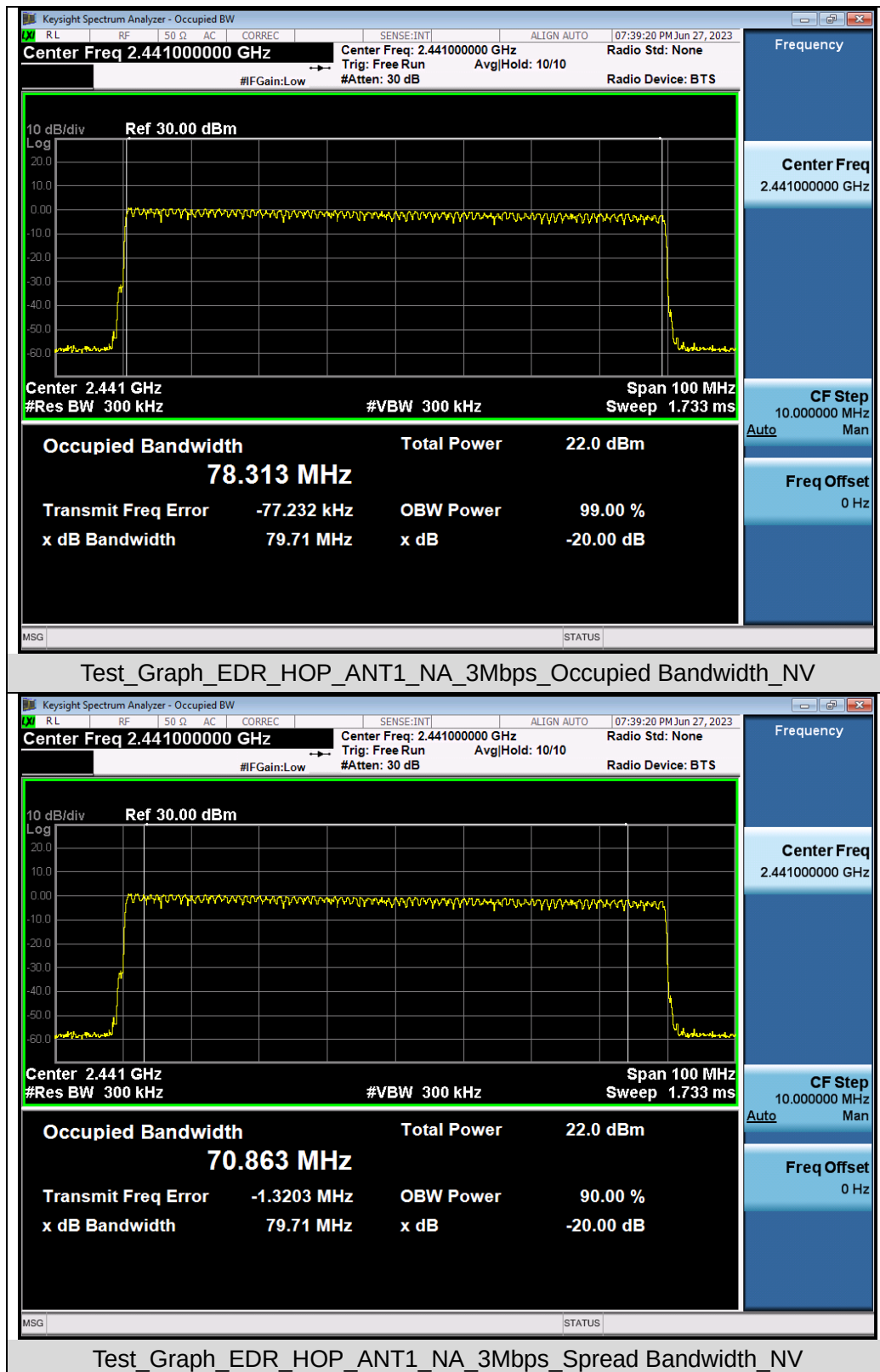


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Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Spread Bandwidth_LV

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5.3. UNWANTED EMISSION INTENSITY MEASUREMENT

Test Limit

Test Item	Limits
Unwanted Emission Strength (2400~2483.5MHz)	$\leq 2.5\mu\text{W/MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($1000\text{MHz} < f < 2387\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2387\text{MHz} \leq f < 2400\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($2496.5\text{MHz} < f < 12500\text{MHz}$)

Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RB / VB	Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- UT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB: 100KHz / VB: 100KHz; Above 1GHz RB: 1MHz / VB:1MHz
- AT: 30dB Ref:20dBm / Sweep time: Auto Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25μW.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW

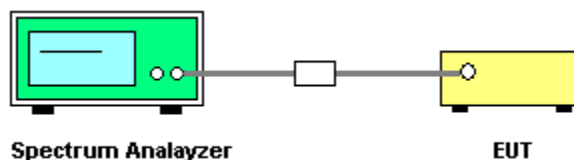
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8. SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
9. Convert from dBm to μW: $P(\mu W) = 1000 * 10^{[P(dBm)/10]}$
10. Convert a measurement Value P_{100kHz} at 100kHz RBW to P_{1MHz} at 1MHz, use the following formula:

$$P_{1MHz} = P_{100kHz} + 10 \cdot \log_{10} \left(\frac{RBW_{1MHz}}{RBW_{100kHz}} \right)$$

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Test Setup



Test Result

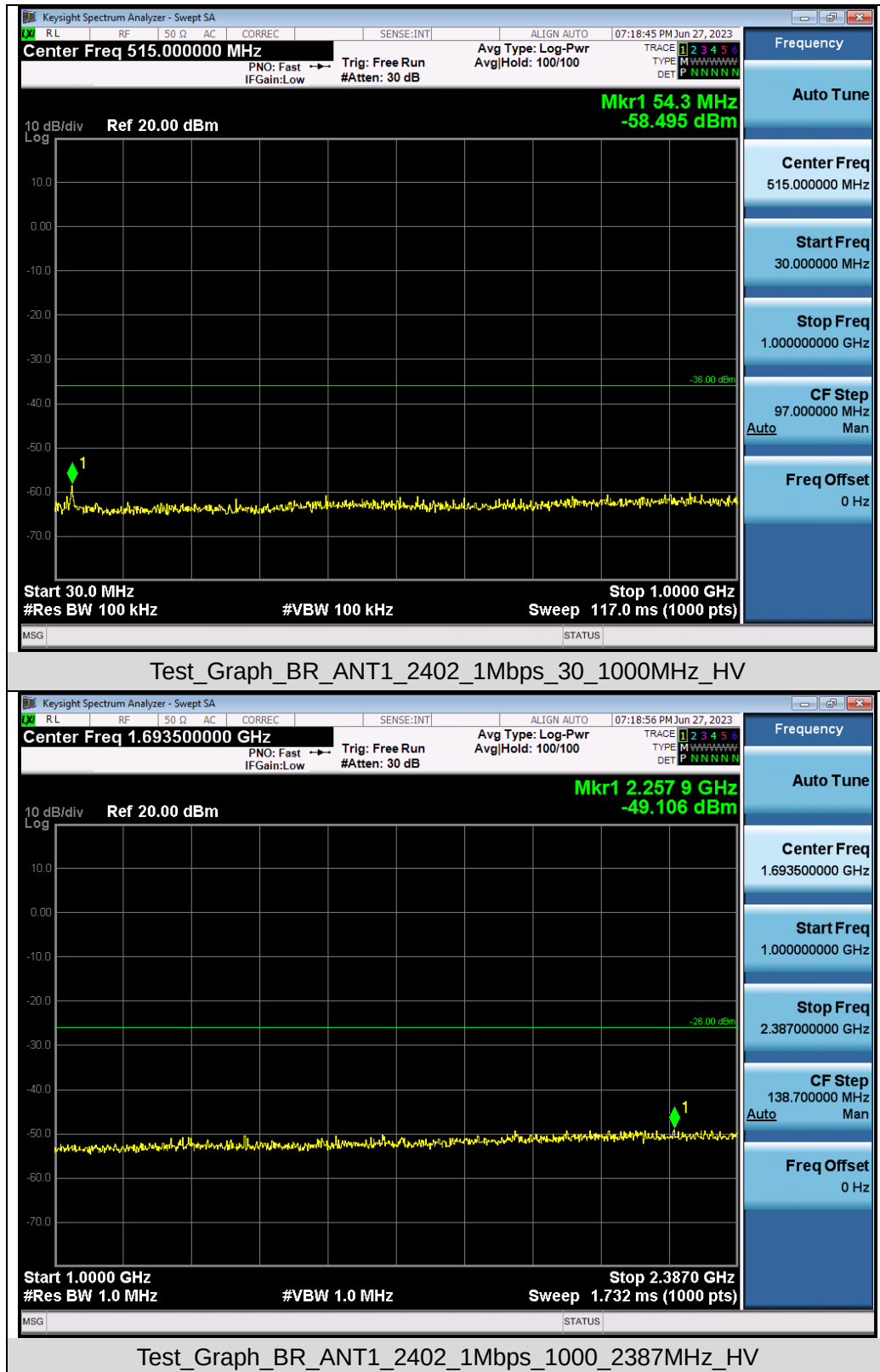
Test Data of Unwanted Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	BR	2402	30~1000	47.5	-49.298	0.012	2.5	Pass
NV	BR	2402	1000~2387	2330.1	-48.928	0.013	2.5	Pass
NV	BR	2402	2387~2400	2399.987	-29.715	1.068	25	Pass
NV	BR	2402	2483.5~2496.5	2491.997	-49.364	0.012	25	Pass
NV	BR	2402	2496.5~12500	4800	-32.051	0.624	2.5	Pass
LV	BR	2402	30~1000	54.3	-47.961	0.016	2.5	Pass
LV	BR	2402	1000~2387	2077.4	-48.735	0.013	2.5	Pass
LV	BR	2402	2387~2400	2400.0	-29.63	1.089	25	Pass
LV	BR	2402	2483.5~2496.5	2489.135	-49.429	0.011	25	Pass
LV	BR	2402	2496.5~12500	4800	-32.061	0.622	2.5	Pass
HV	BR	2402	30~1000	54.3	-48.495	0.014	2.5	Pass
HV	BR	2402	1000~2387	2257.9	-49.106	0.012	2.5	Pass
HV	BR	2402	2387~2400	2400.0	-29.719	1.067	25	Pass
HV	BR	2402	2483.5~2496.5	2484.164	-49.302	0.012	25	Pass
HV	BR	2402	2496.5~12500	4800.0	-32.055	0.623	2.5	Pass
NV	BR	2441	30~1000	54.3	-49.417	0.011	2.5	Pass
NV	BR	2441	1000~2387	2370.3	-48.159	0.015	2.5	Pass
NV	BR	2441	2387~2400	2390.839	-50.059	0.010	25	Pass
NV	BR	2441	2483.5~2496.5	2488.198	-50.182	0.010	25	Pass
NV	BR	2441	2496.5~12500	4880	-34.104	0.389	2.5	Pass
LV	BR	2441	30~1000	54.3	-48.457	0.014	2.5	Pass
LV	BR	2441	1000~2387	2239.8	-48.694	0.014	2.5	Pass
LV	BR	2441	2387~2400	2397.046	-49.32	0.012	25	Pass
LV	BR	2441	2483.5~2496.5	2492.414	-50.082	0.010	25	Pass
LV	BR	2441	2496.5~12500	4880	-34.475	0.357	2.5	Pass
HV	BR	2441	30~1000	54.3	-49.275	0.012	2.5	Pass
HV	BR	2441	1000~2387	2313.4	-48.631	0.014	2.5	Pass
HV	BR	2441	2387~2400	2391.19	-49.556	0.011	25	Pass

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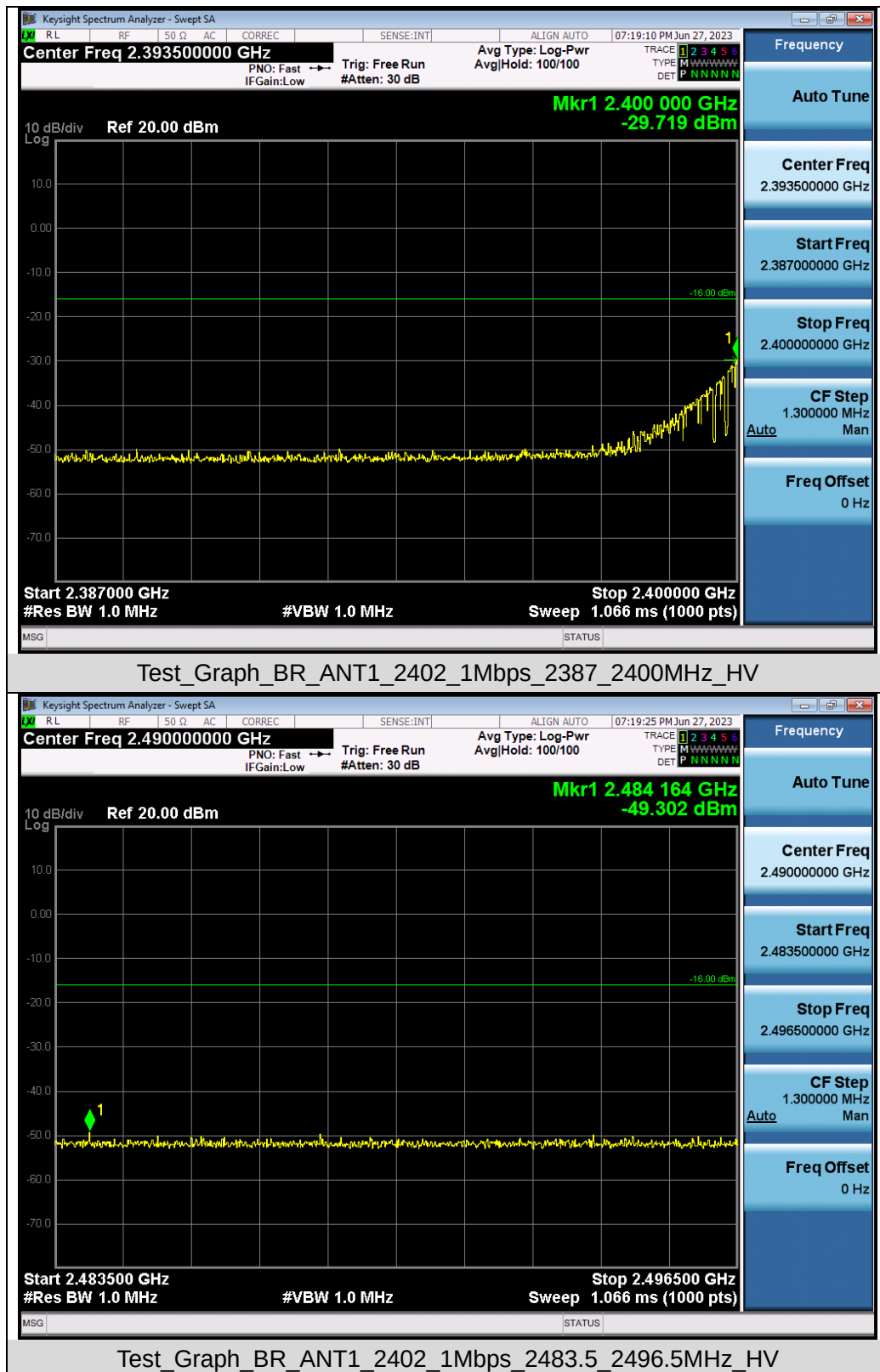
HV	BR	2441	2483.5~2496.5	2486.051	-49.87	0.010	25	Pass
HV	BR	2441	2496.5~12500	4880	-34.398	0.363	2.5	Pass
NV	BR	2480	30~1000	54.3	-45.816	0.026	2.5	Pass
NV	BR	2480	1000~2387	2320.4	-48.974	0.013	2.5	Pass
NV	BR	2480	2387~2400	2393.376	-49.751	0.011	25	Pass
NV	BR	2480	2483.5~2496.5	2485.231	-48.304	0.015	25	Pass
NV	BR	2480	2496.5~12500	4960	-37.476	0.179	2.5	Pass
LV	BR	2480	30~1000	54.3	-49.273	0.012	2.5	Pass
LV	BR	2480	1000~2387	2321.7	-48.096	0.016	2.5	Pass
LV	BR	2480	2387~2400	2387	-50.32	0.009	25	Pass
LV	BR	2480	2483.5~2496.5	2483.513	-47.067	0.020	25	Pass
LV	BR	2480	2496.5~12500	4960	-37.967	0.160	2.5	Pass
HV	BR	2480	30~1000	54.3	-48.155	0.015	2.5	Pass
HV	BR	2480	1000~2387	2464.9	-48.865	0.013	2.5	Pass
HV	BR	2480	2387~2400	2398.139	-50.087	0.010	25	Pass
HV	BR	2480	2483.5~2496.5	2483.721	-47.652	0.017	25	Pass
HV	BR	2480	2496.5~12500	4960	-37.225	0.189	2.5	Pass

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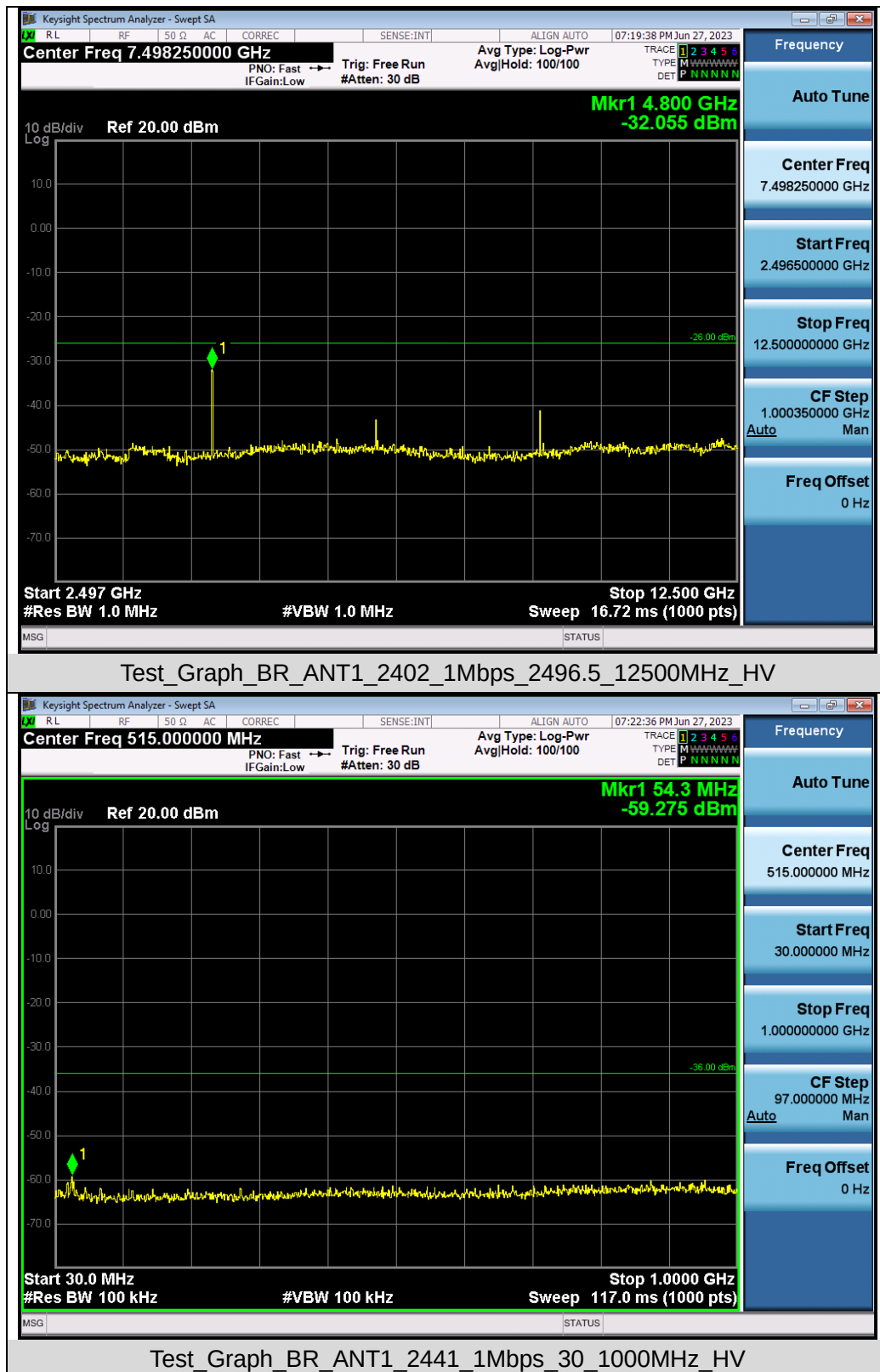
Test Graphs of Transmitter Spurious



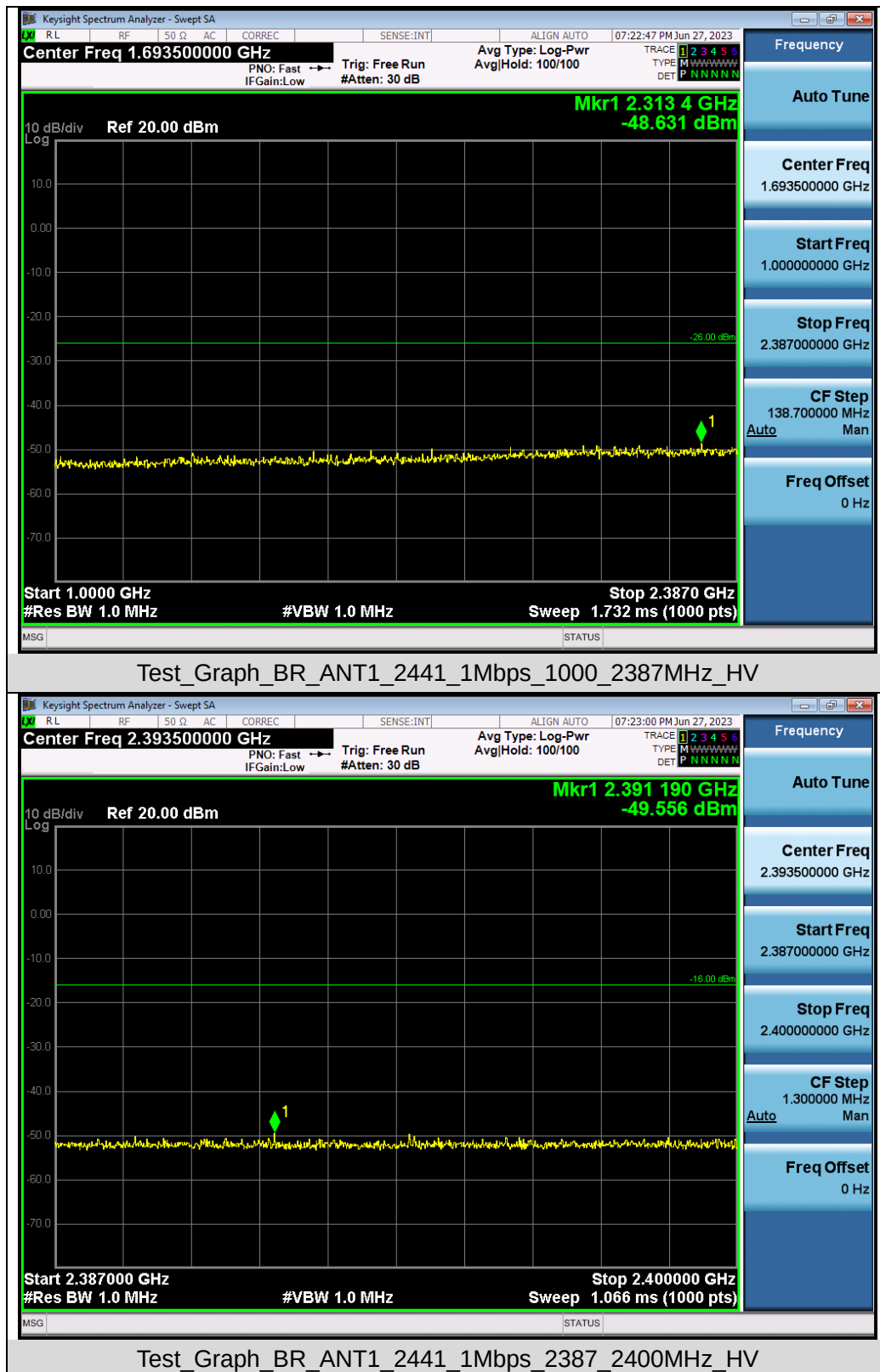
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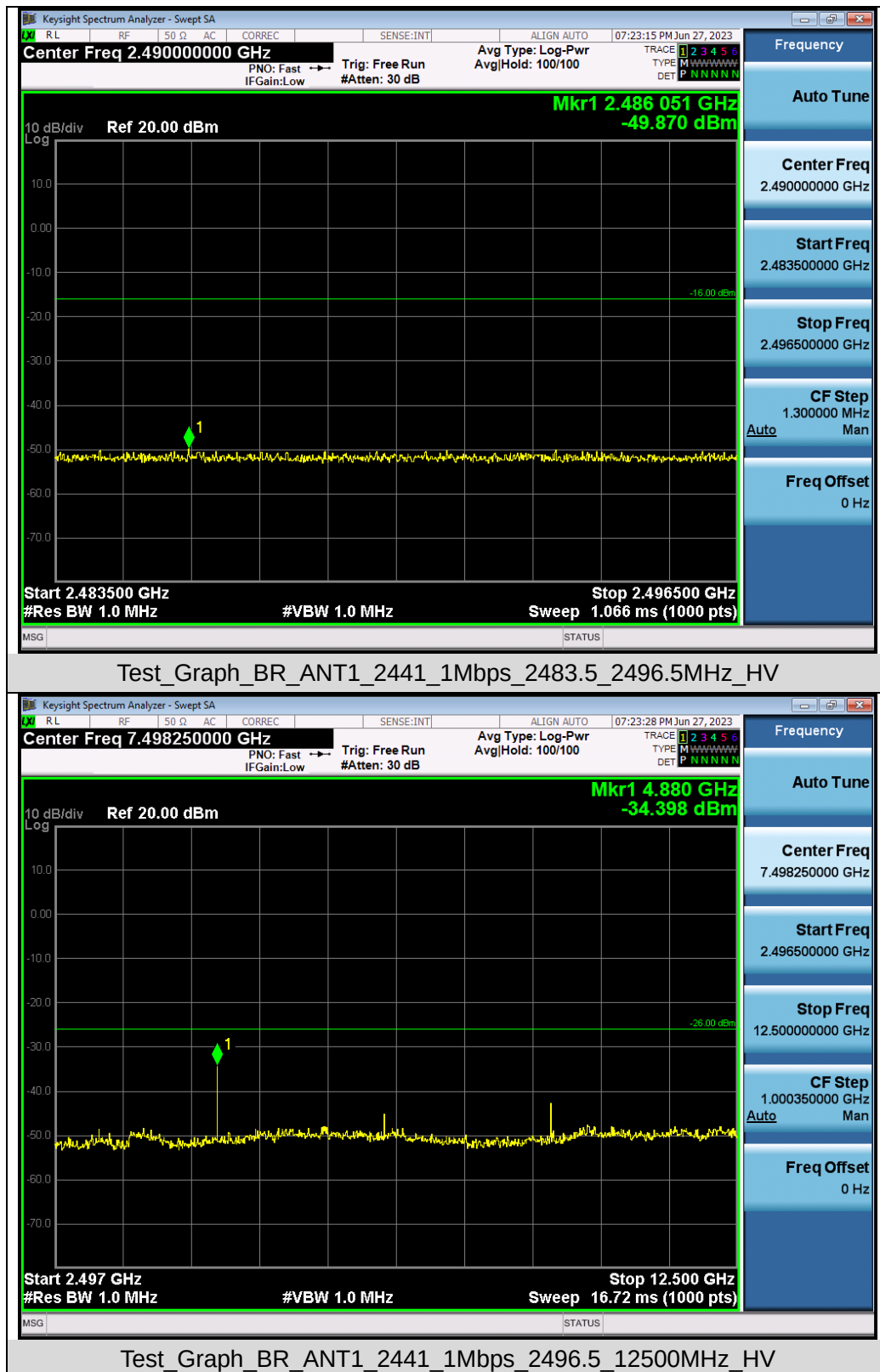
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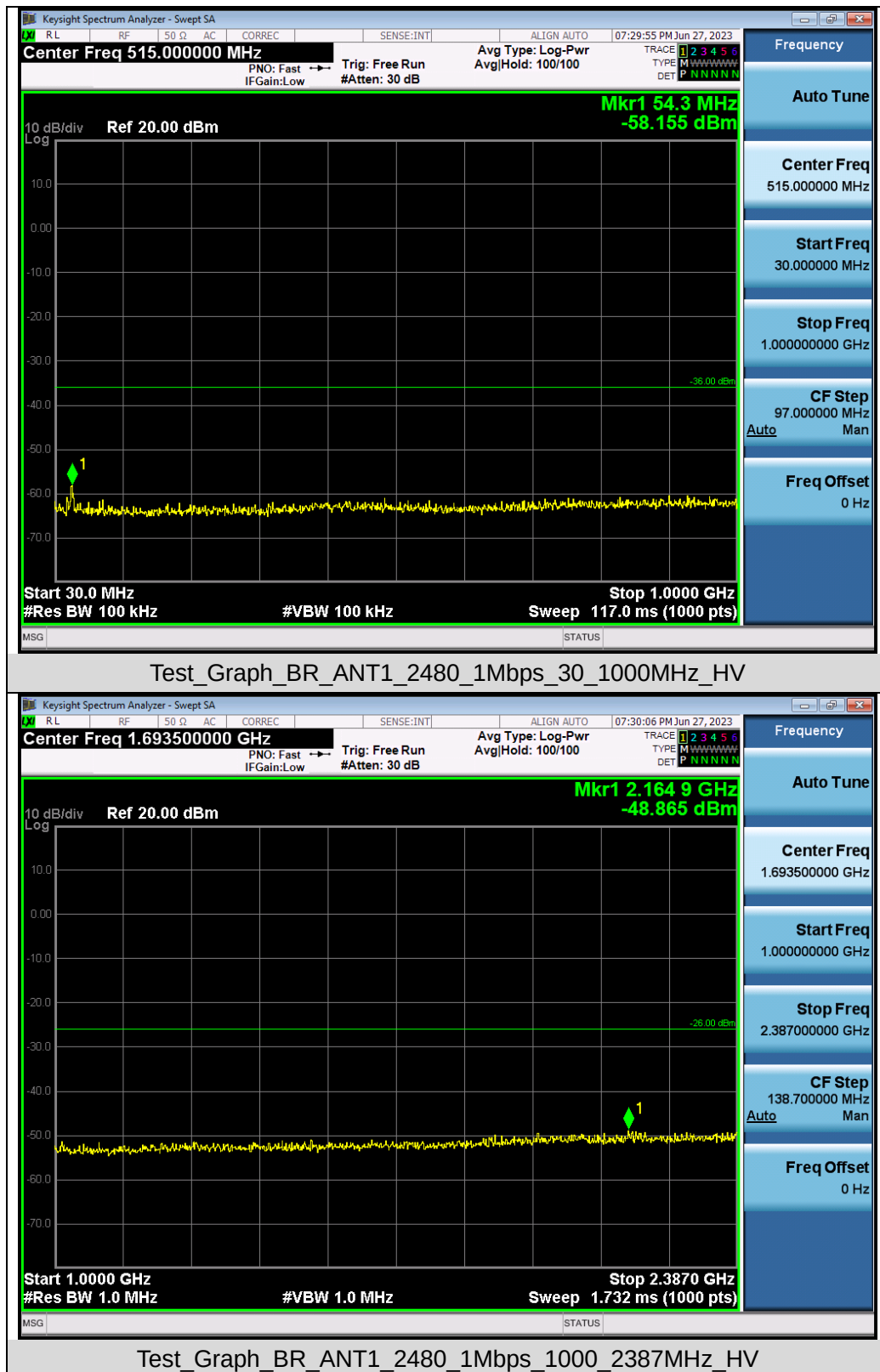


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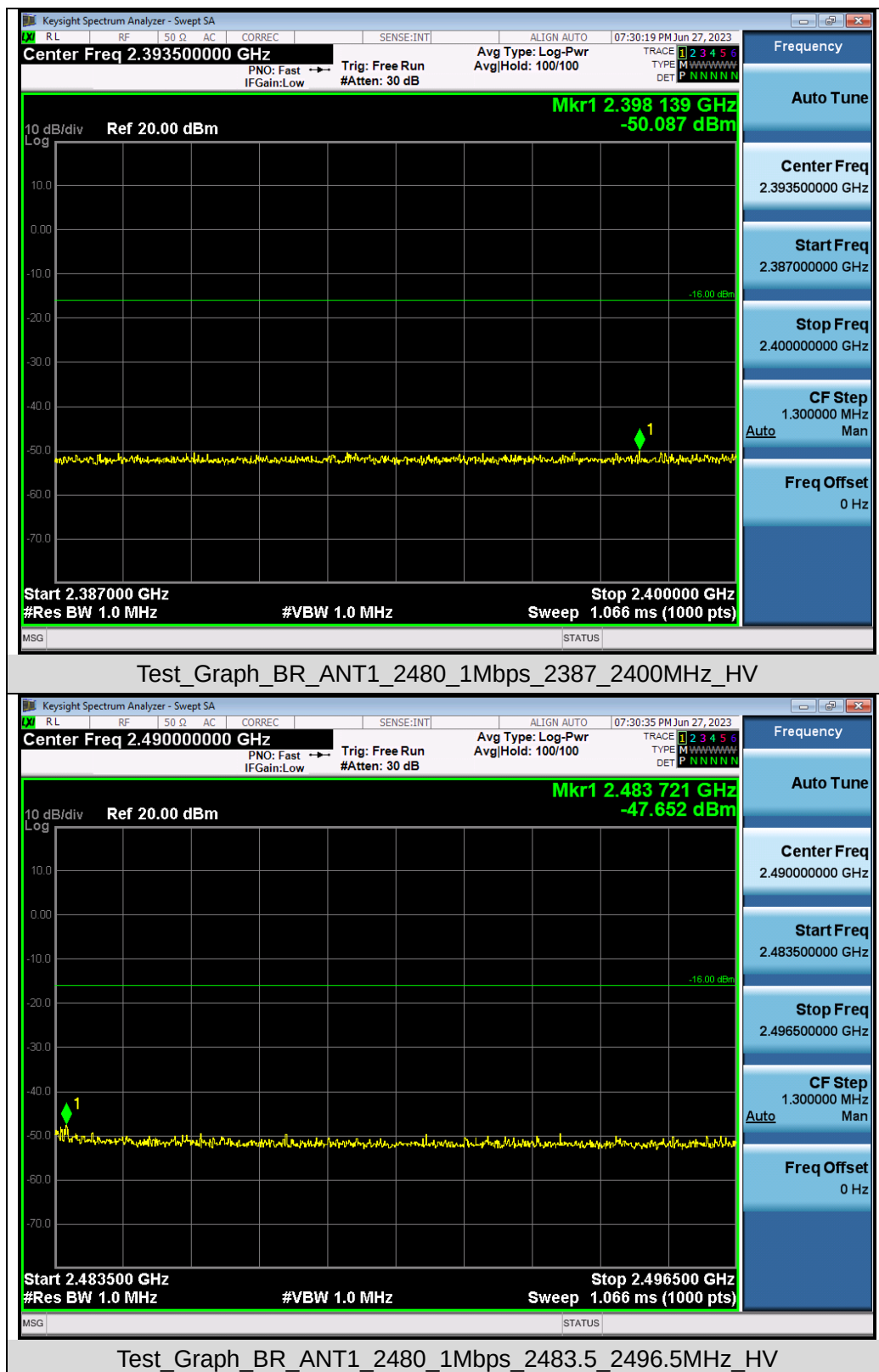


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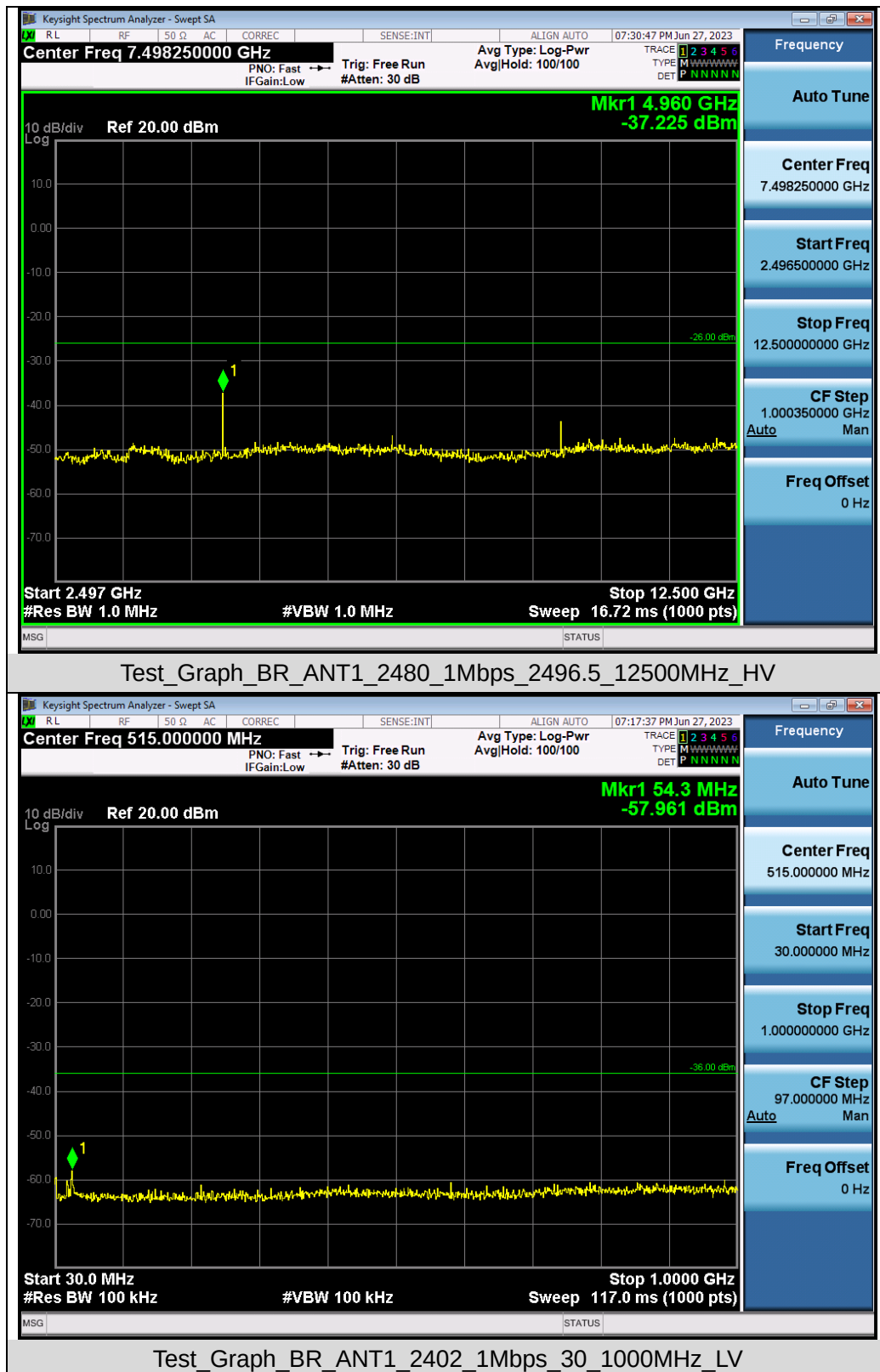


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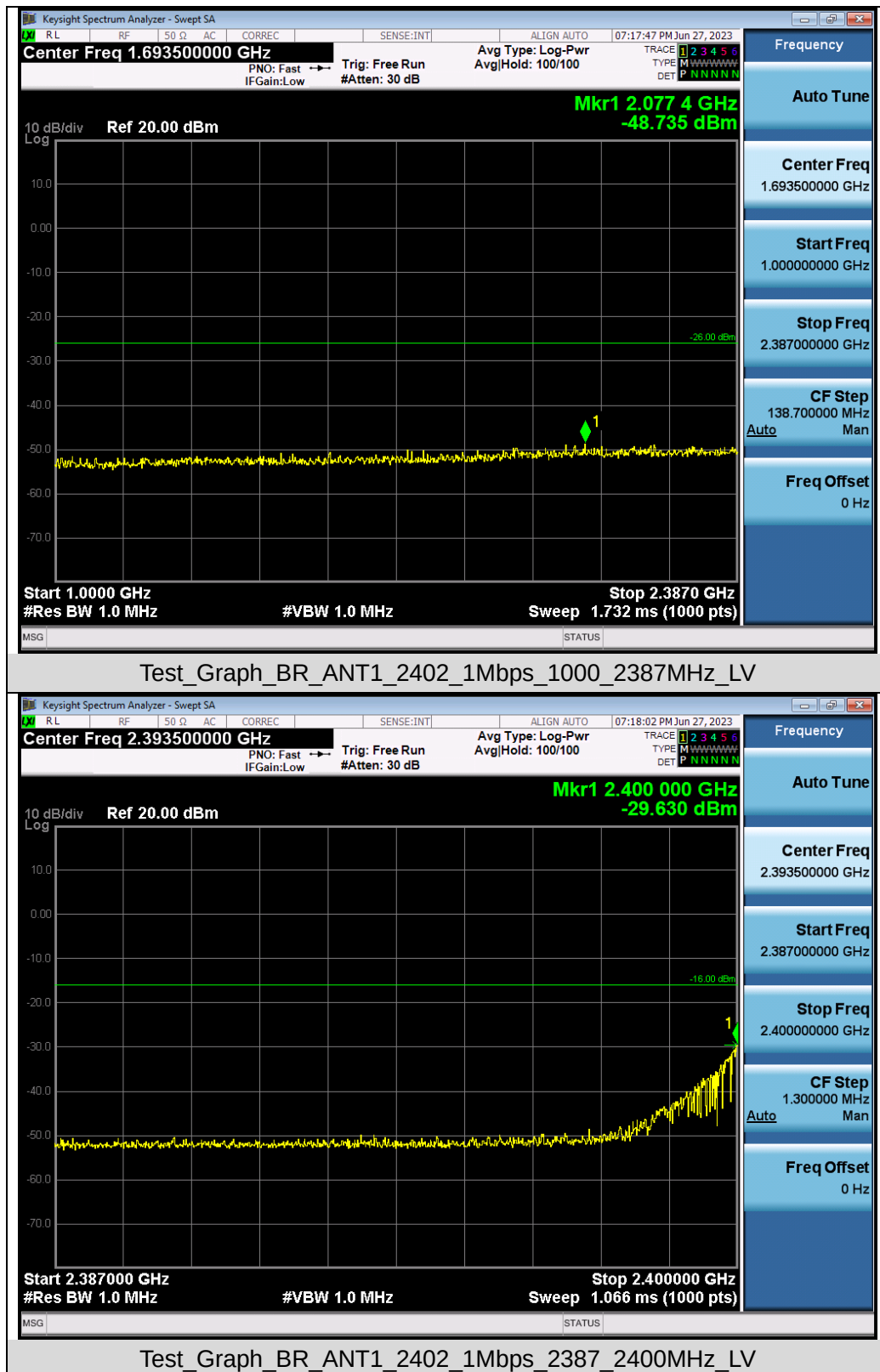
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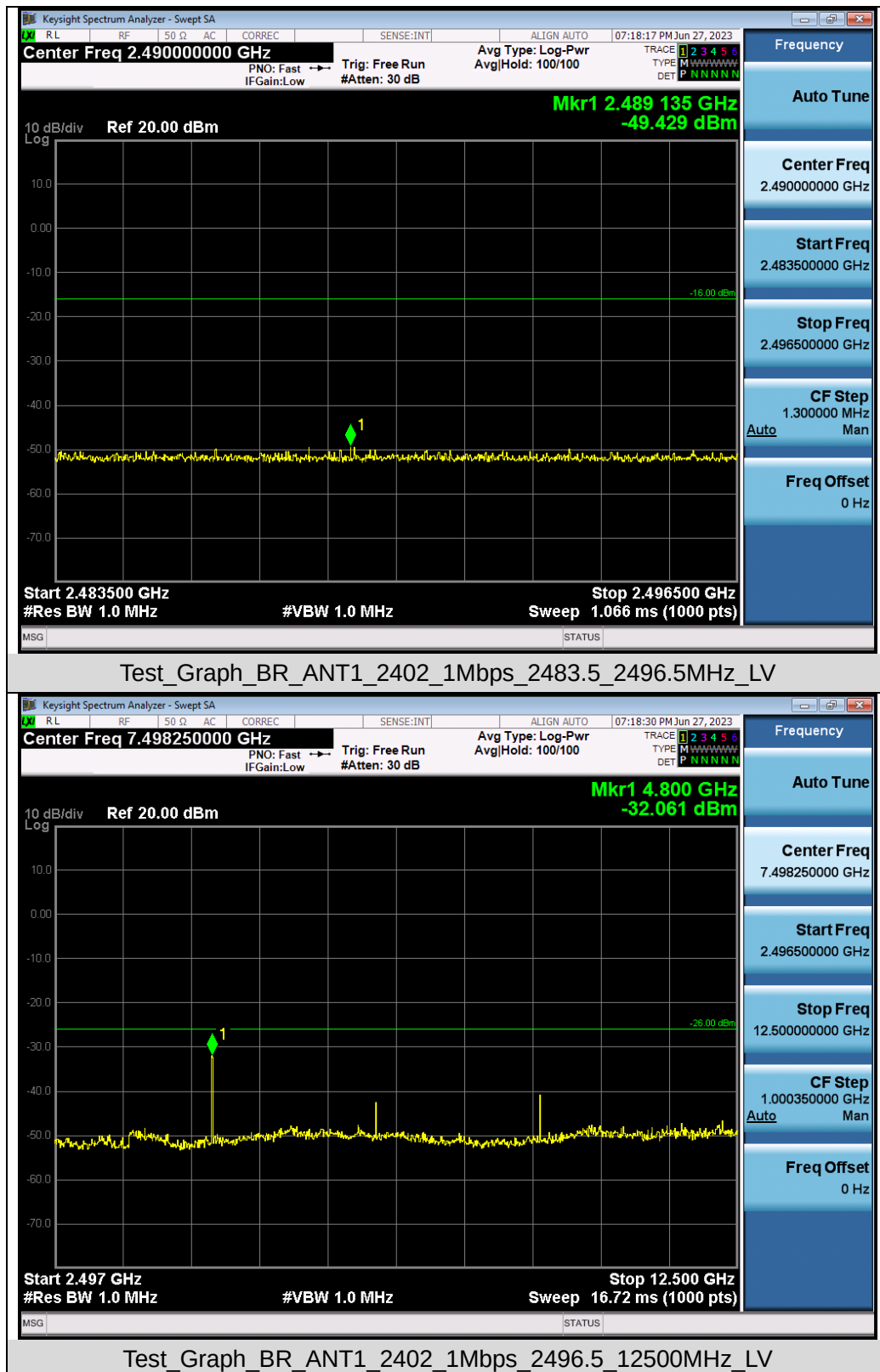


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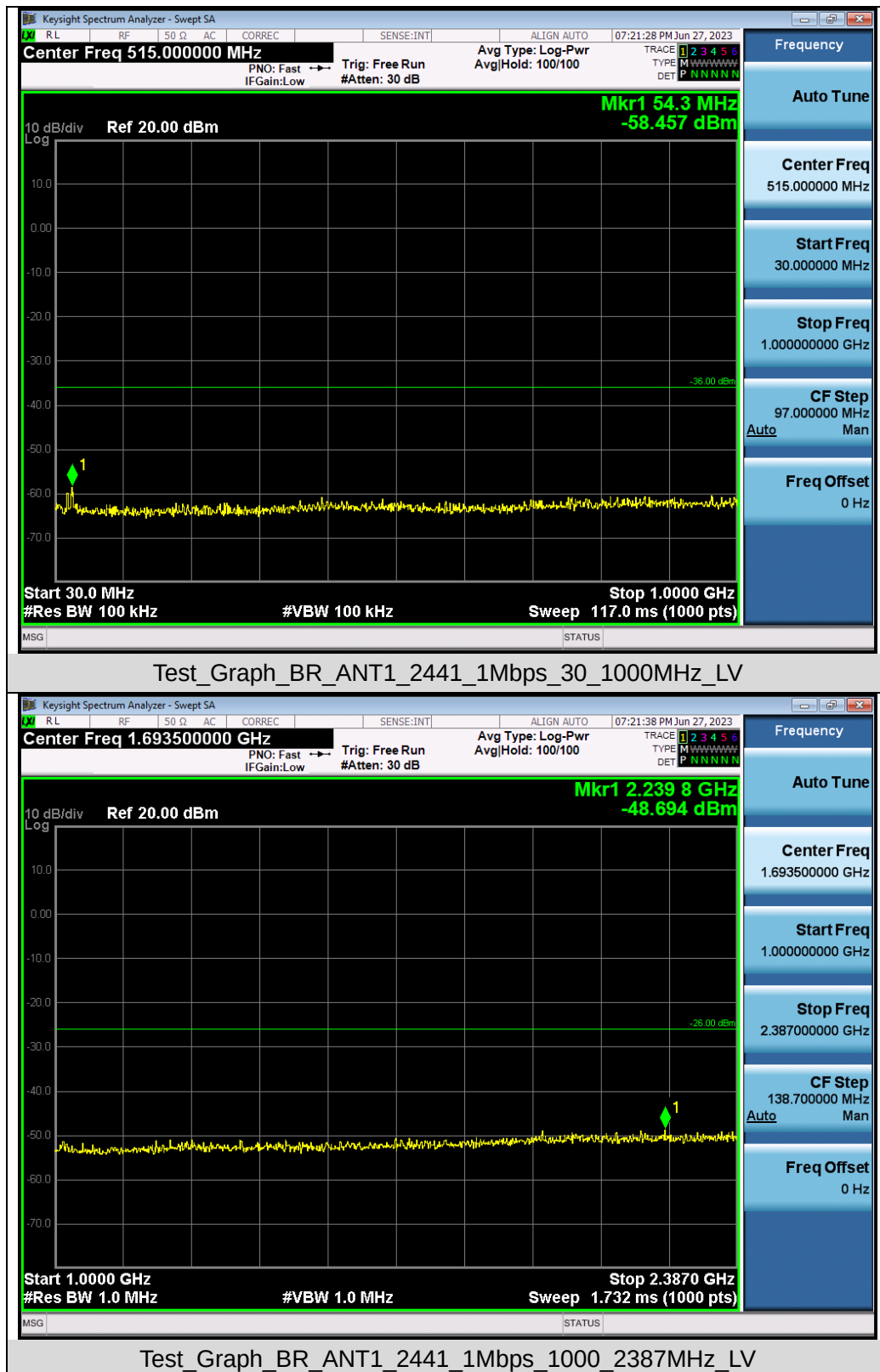
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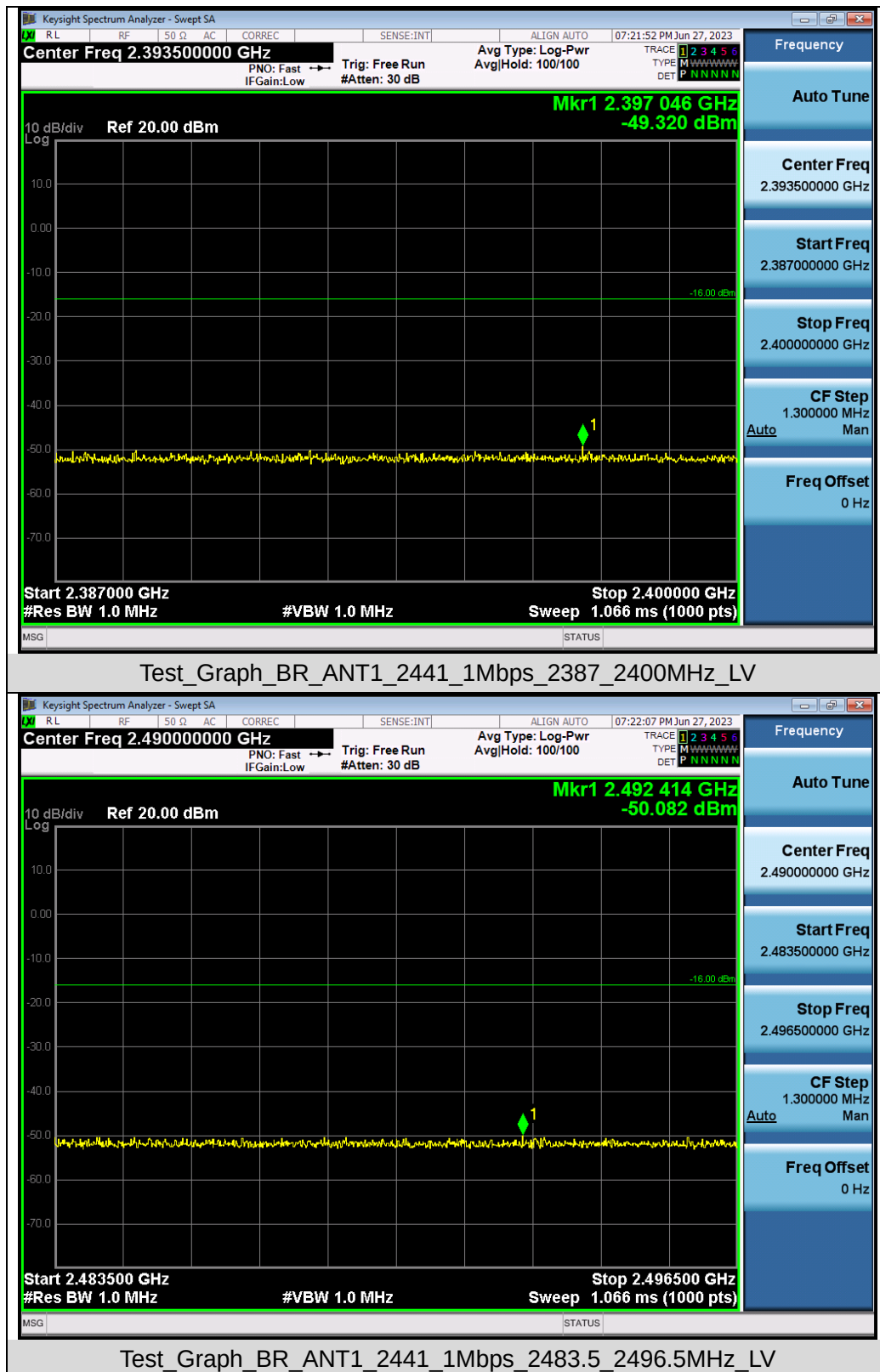
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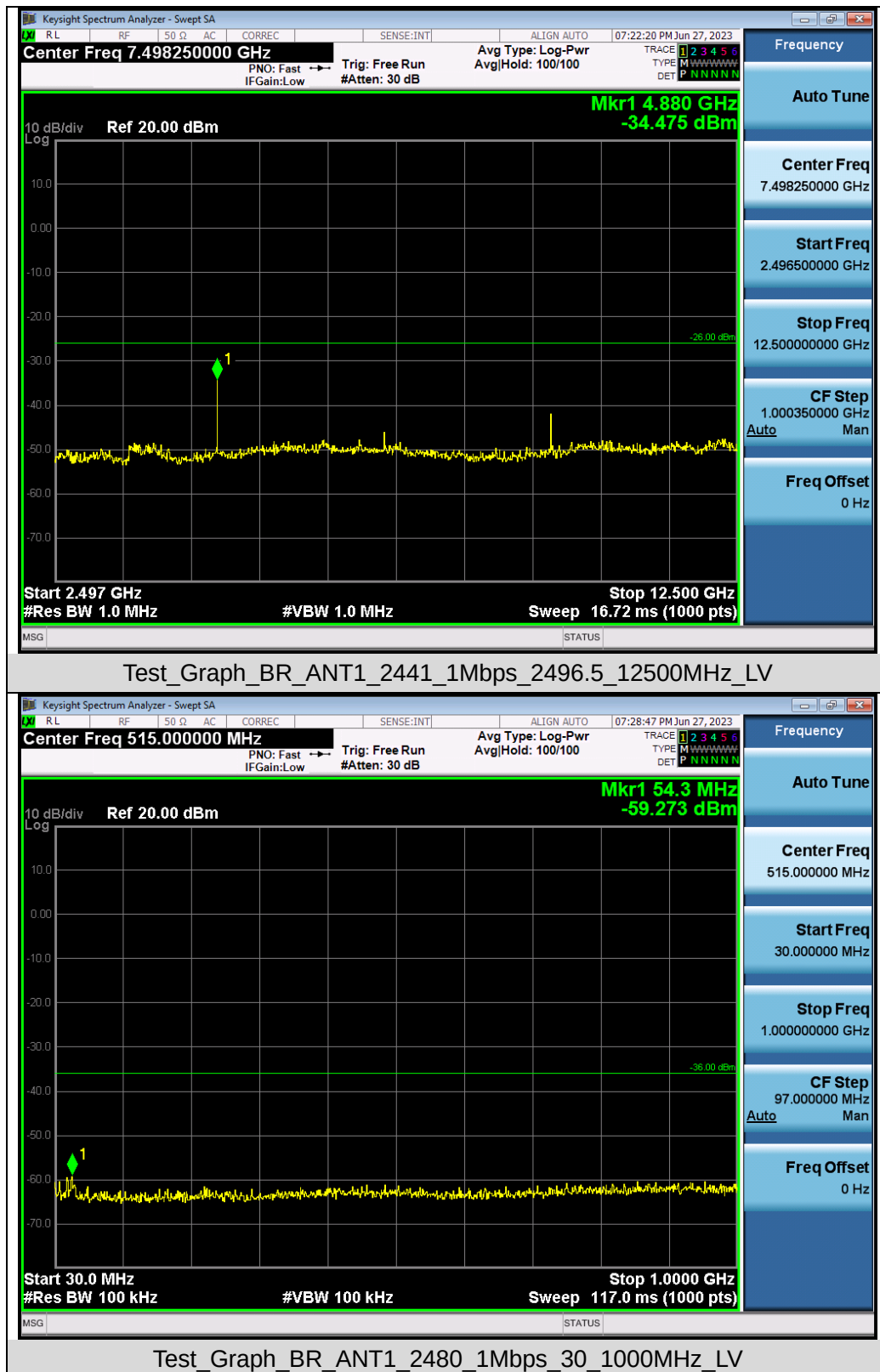
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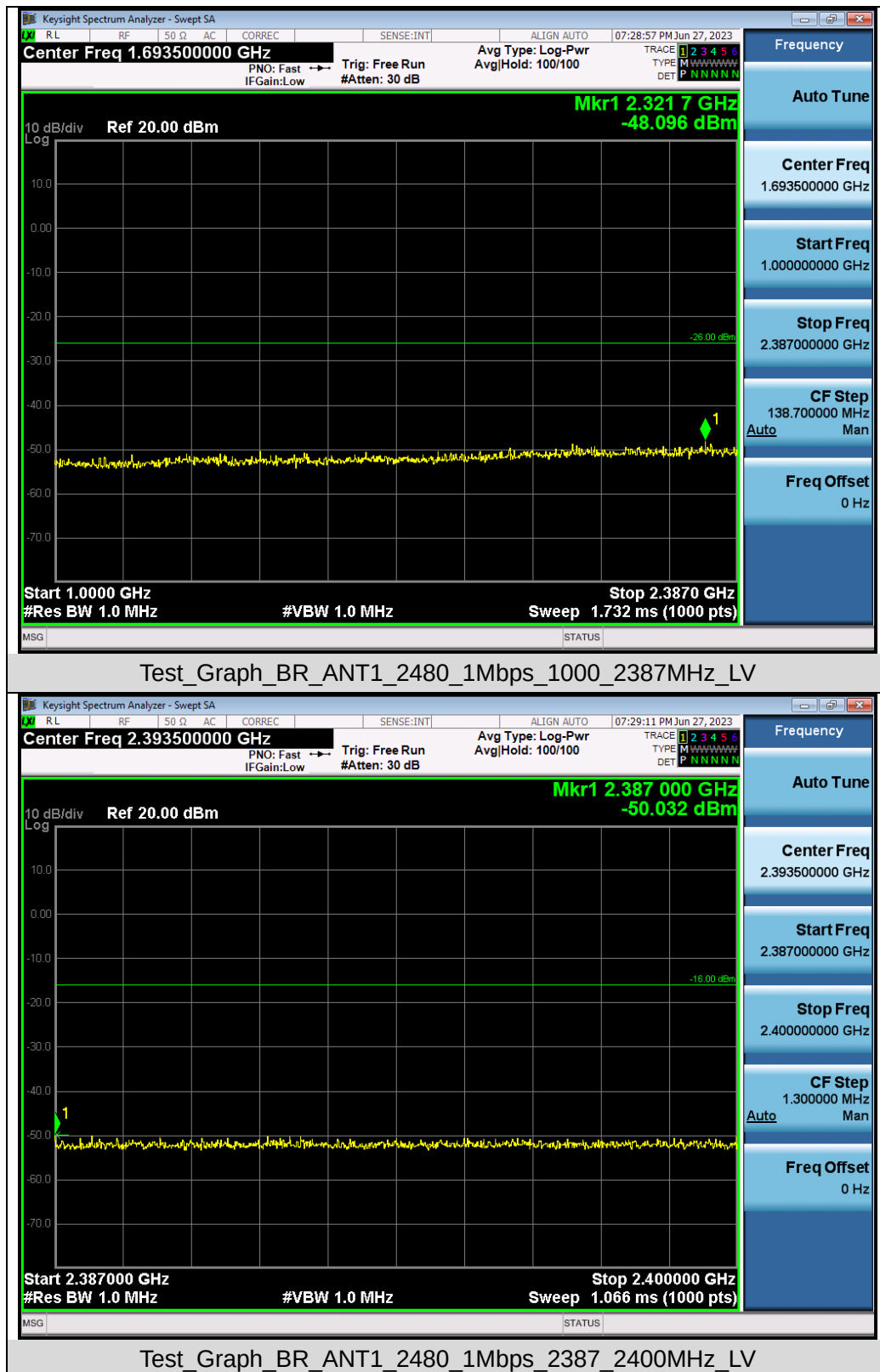
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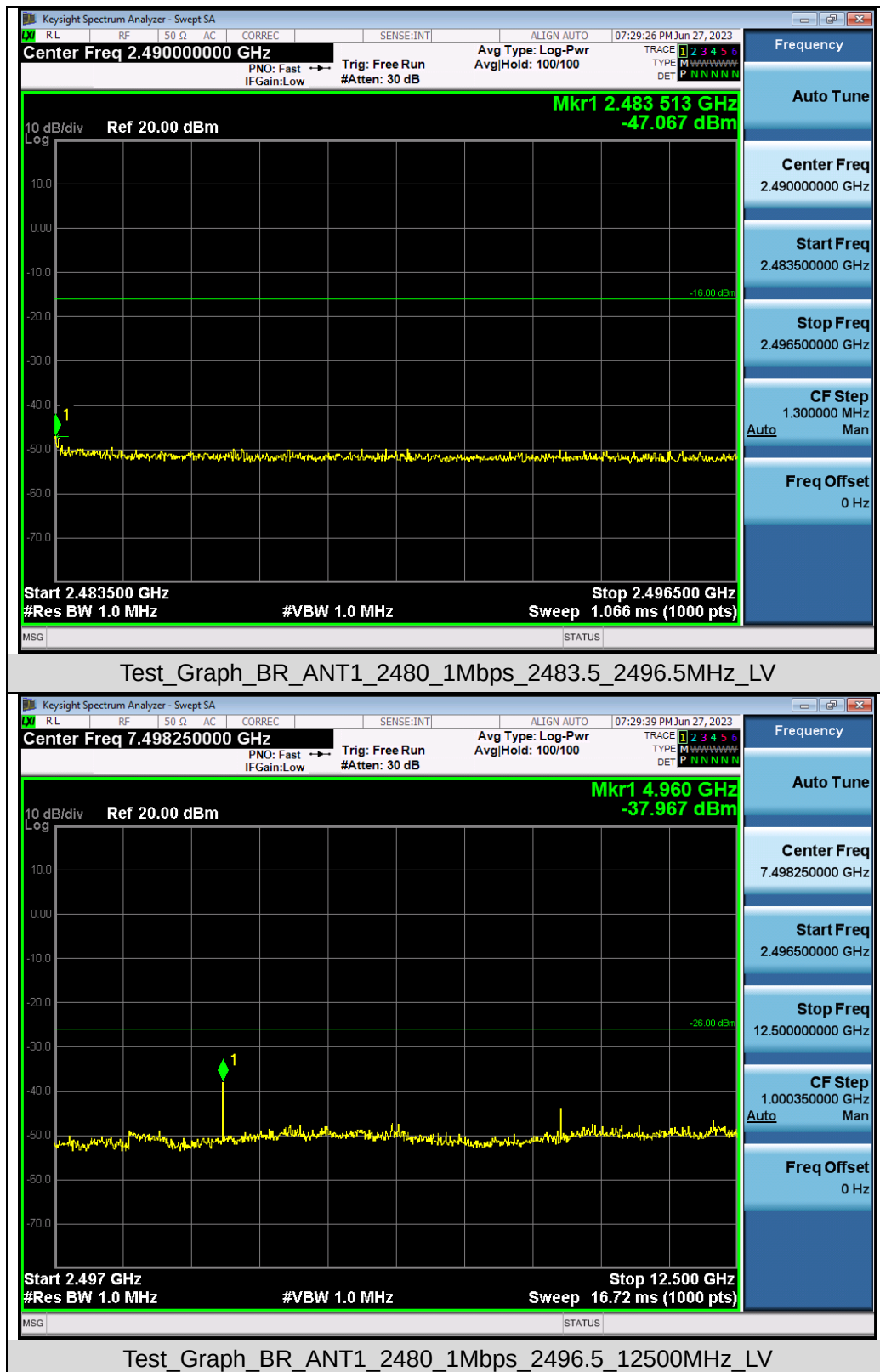
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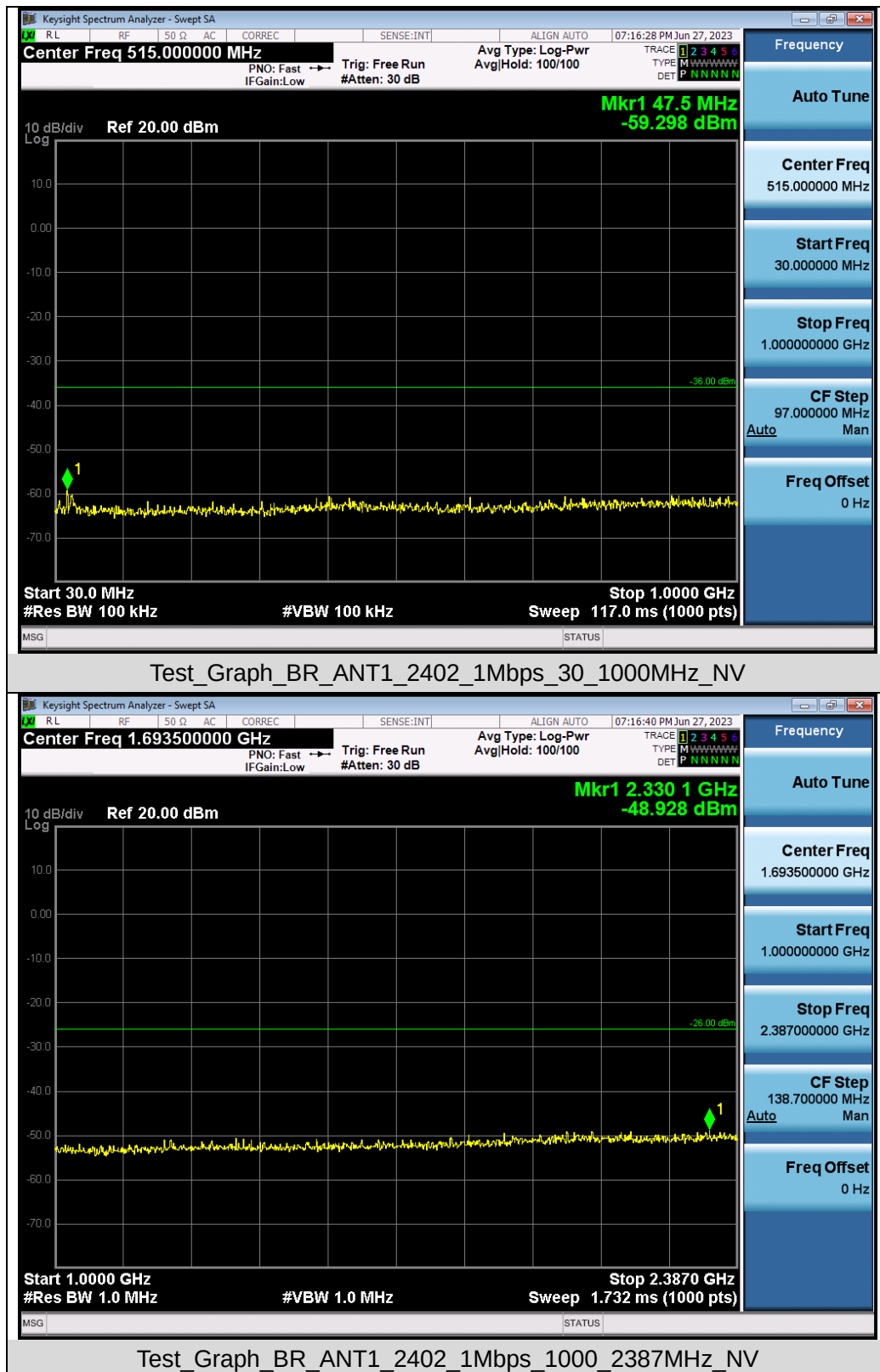


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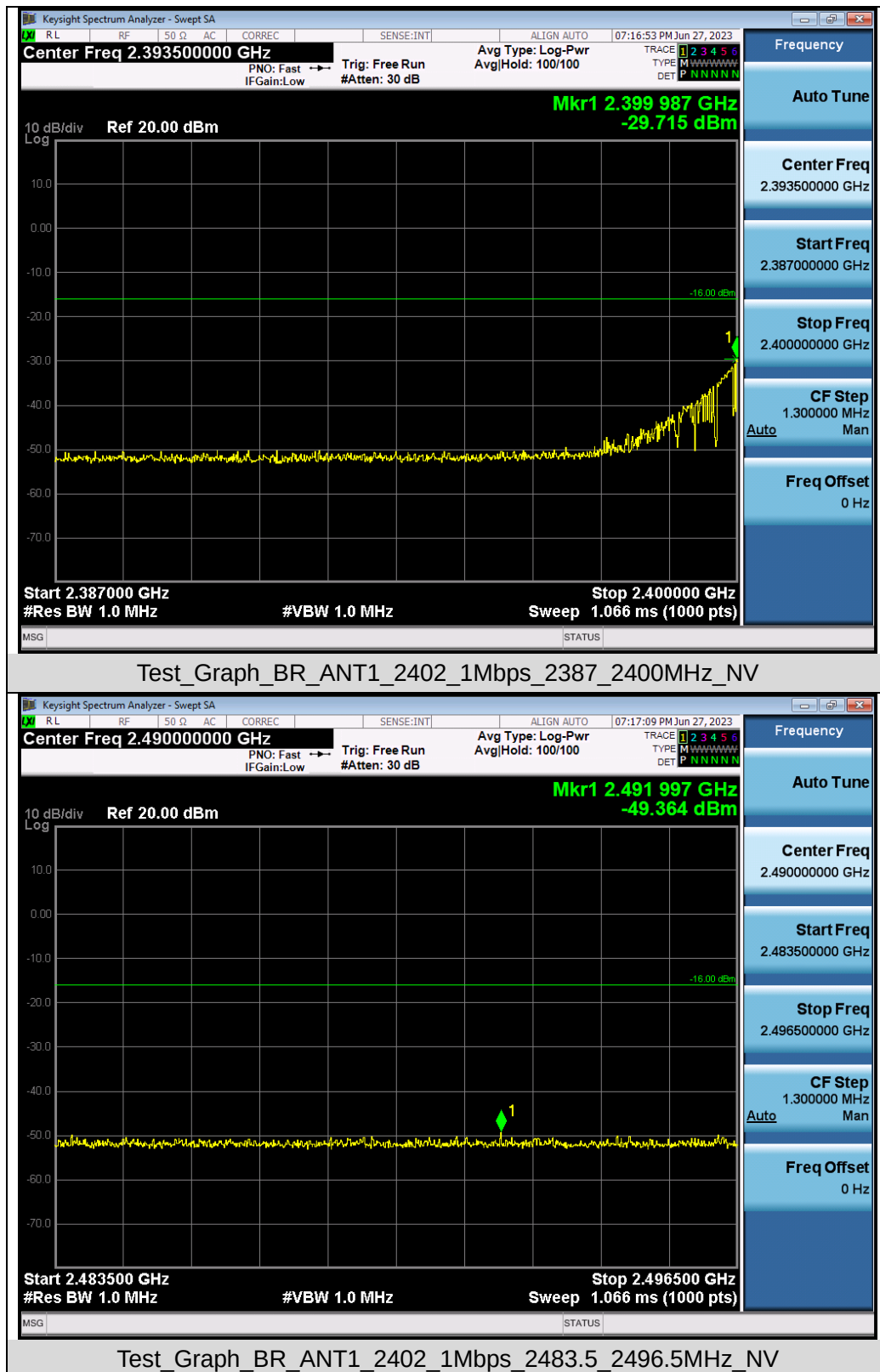


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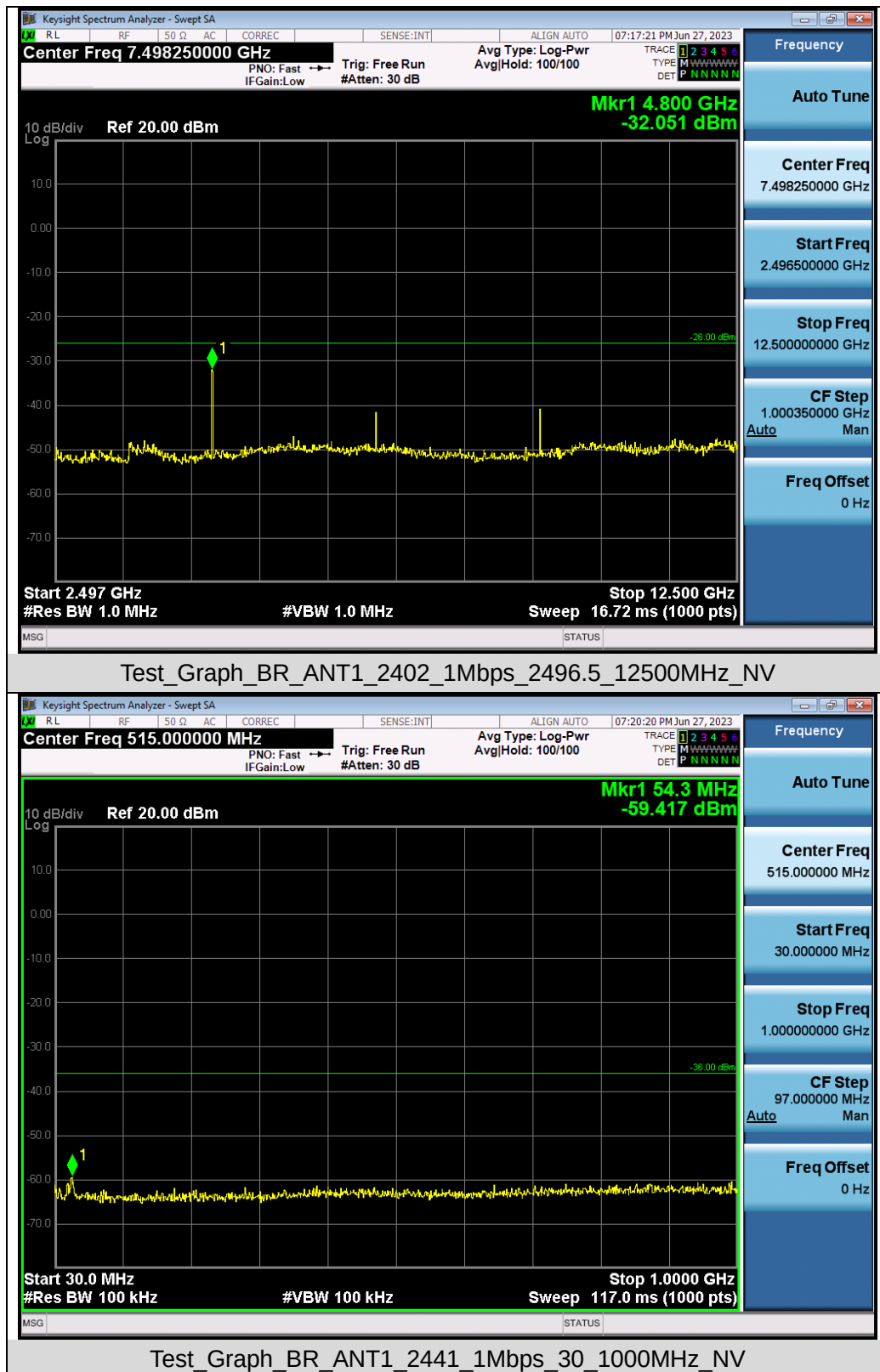
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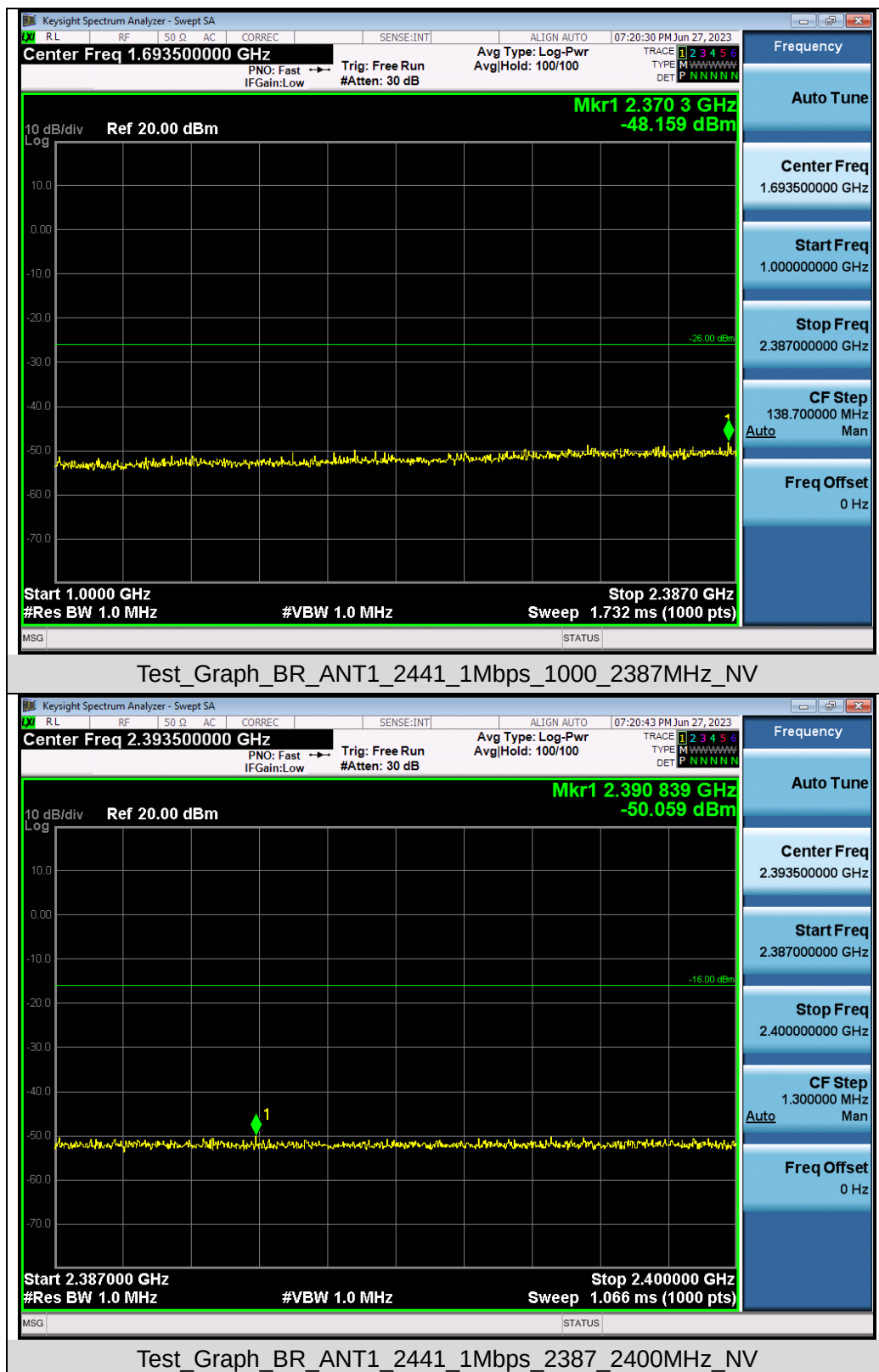


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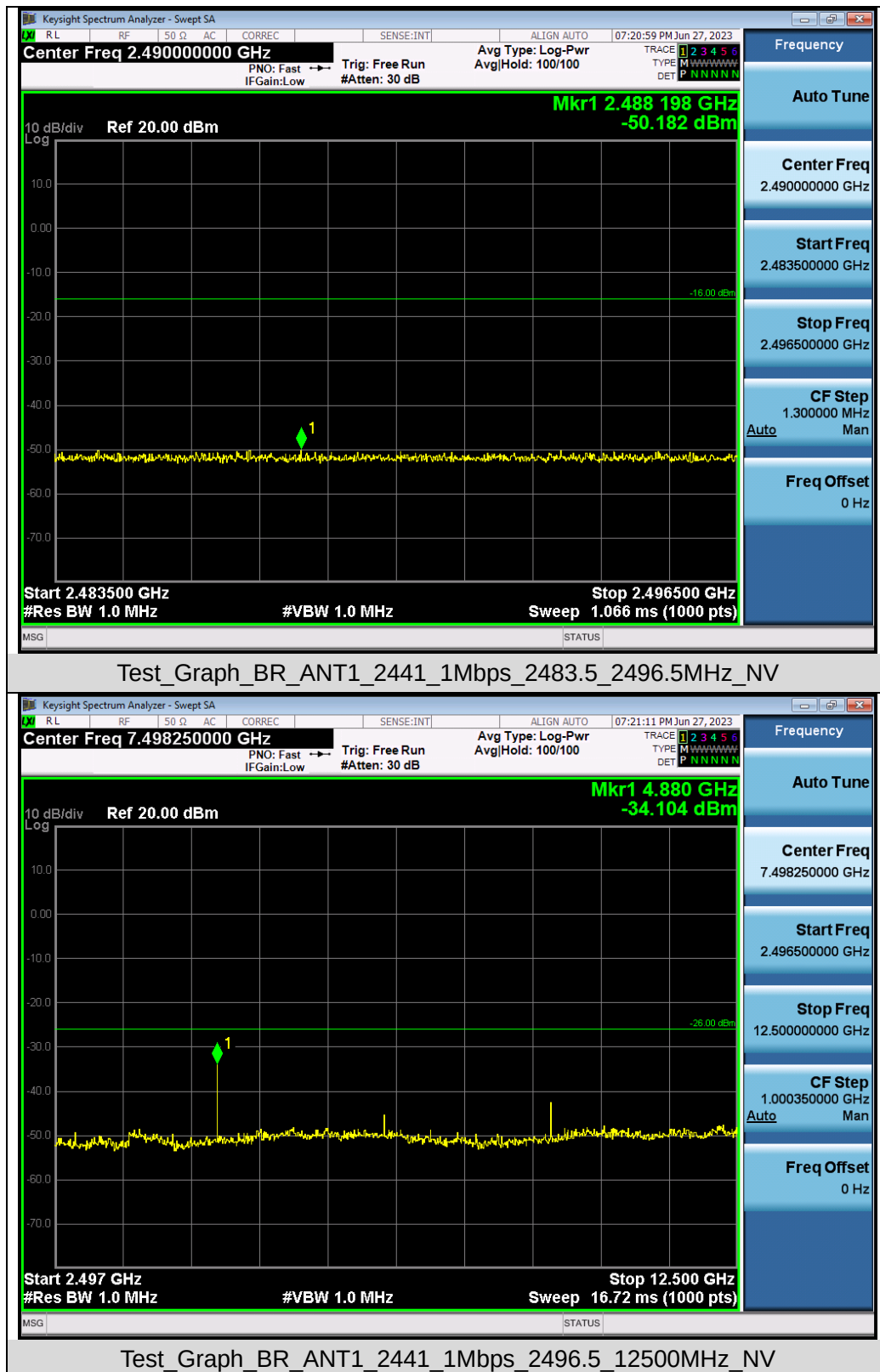
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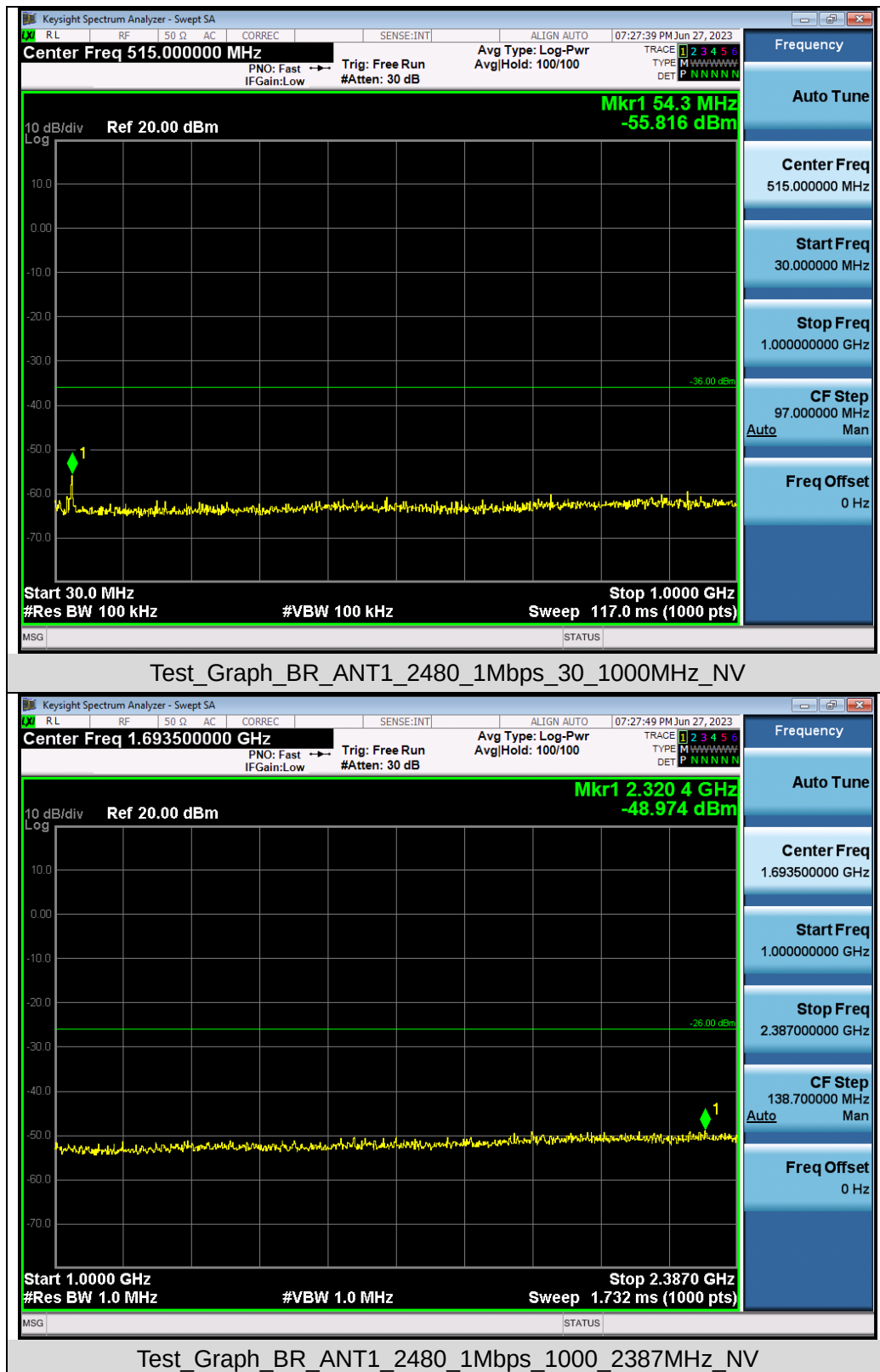


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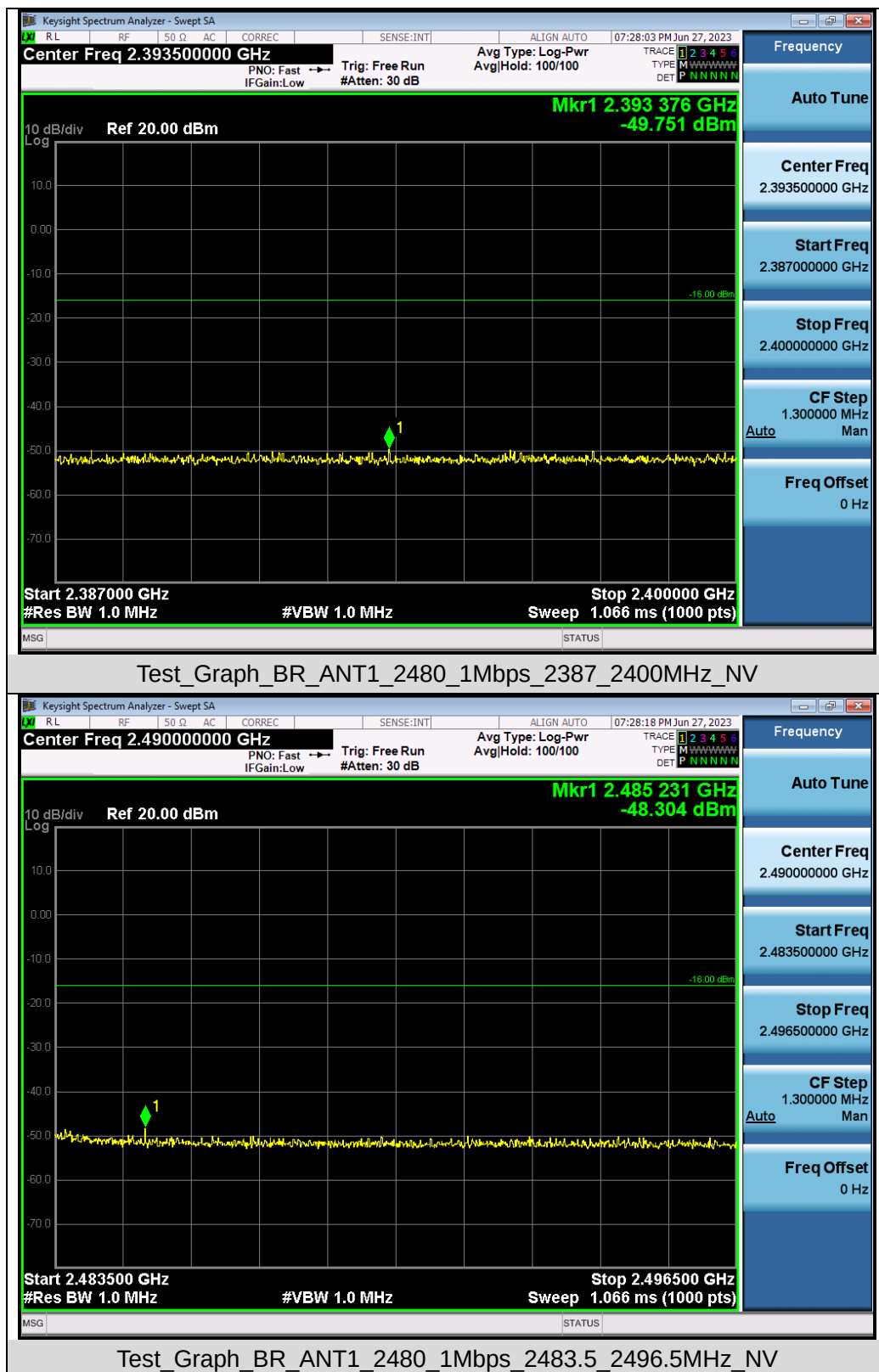
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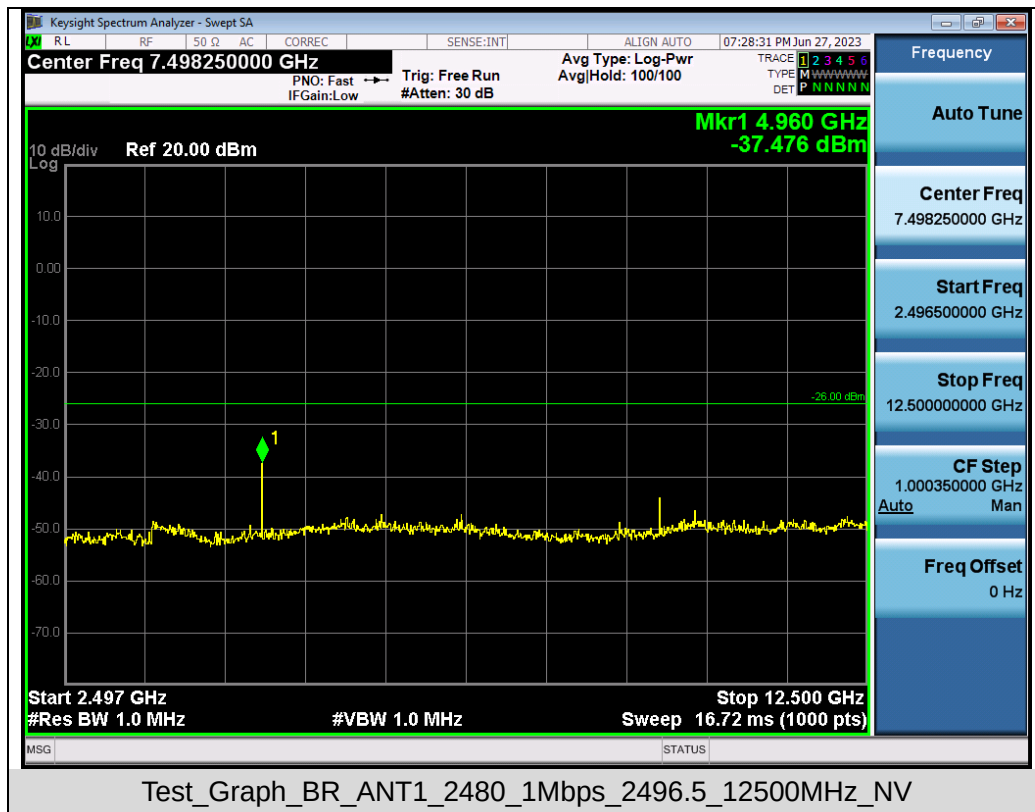
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5.4. ANTENNA POWER ERROR MEASUREMENT

Test Limit

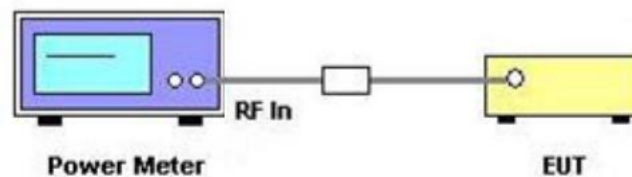
Test Item	Limits
Antenna Power	$\leq 3\text{mW/MHz}$ (FH system from 2400 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2400 to 2427MHz)
	$\leq 10\text{mW/MHz}$ (FH system from 2470.75 to 2483.5MHz)
	$\leq 10\text{mW/MHz}$ (OFDM, DS 20MHz system)
	$\leq 10\text{mW}$ (Others)
	$\leq 5\text{mW}$ for OFDM (40 MHz system)
Antenna Power Error	+20% (Base on manufacturer declare antenna power density)

Test Procedure

1. The EUT is in normal hopping operation to all channels.
2. Connect the power meter to the RF output port of the EUT and measure the total power.
3. Calculate the antenna power by the total power, The formula is as follows:

$$\text{Total power} / \text{Spread bandwidth} = \text{Mean power in 1MHz} = \text{Antenna Power}$$

Test Setup



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Test Result

Test Data of Antenna Power for FH system								
Test Mode	Total power (mW)			Antenna Power (mW/MHz)			Limit (mW/MHz)	P/F
	NV	LV	HV	NV	LV	HV		
BR_HOP_1Mbps	1.280	1.286	1.160	0.018	0.018	0.016	3	Pass
EDR_HOP_2Mbps	1.666	1.596	1.412	0.023	0.023	0.020	3	Pass
EDR_HOP_3Mbps	1.567	1.598	1.552	0.022	0.023	0.022	3	Pass

Note: Antenna Power (mW/MHz) = Total power (mW)/Spreading Bandwidth (MHz).

Test Data of Antenna Power Error for FH system						
Test Mode	Rated power (mW/MHz)	Antenna Power Error (%)			Limit (%)	P/F
		NV	LV	HV		
BR_HOP_1Mbps	0.030	-39.67	-39.33	-45.33	20	Pass
EDR_HOP_2Mbps	0.030	-21.67	-24.67	-33.67	20	Pass
EDR_HOP_3Mbps	0.030	-26.33	-24.67	-27.00	20	Pass

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5.5 EIRP Antenna Power Measurement

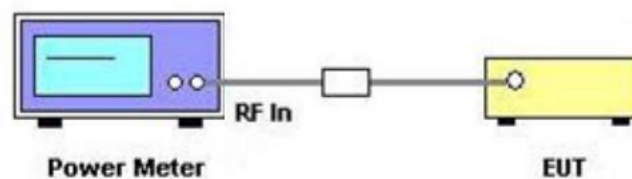
Test Limit

Test Item	Limits
EIRP Antenna Power	$\leq 6.91\text{dBm/MHz}$ (FH system)
	$\leq 12.14\text{dBm/MHz}$ (FH system from 2400 to 2427MHz)
	$\leq 12.14\text{dBm/MHz}$ (FH system from 2470.75 to 2483.5MHz)
	$\leq 12.14\text{dBm}$ (Others)
	$\leq 9.13\text{dBm/MHz}$ (OFDM 40MHz system)

Test Procedure

1. The EUT is in normal hopping operation to all channels.
2. Connect the power meter to the RF output port of the EUT and measure the total power.
3. Calculate the antenna power by the total power, The formula is as follows:
Total power / Spread bandwidth = Mean power in 1MHz = Antenna Power

Test Setup



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Test Result

Test Data of E.I.R.P. for FH system									
Test Mode	Antenna Power (dBm/MHz)			Antenna Gain (dBi)	E.I.R.P. (dBm/MHz)			Limit (dBm/MHz)	P/F
	NV	LV	HV		NV	LV	HV		
BR_HOP_1Mbps	-17.45	-17.45	-17.96	2.66	-14.79	-14.79	-15.30	6.91	Pass
EDR_HOP_2Mbps	-16.38	-16.38	-16.99	2.66	-13.72	-13.72	-14.33	6.91	Pass
EDR_HOP_3Mbps	-16.58	-16.38	-16.58	2.66	-13.92	-13.72	-13.92	6.91	Pass

Note: E.I.R.P. (dBm/MHz) = Antenna Power(dBm/MHz) + Antenna Gain (dBi).

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5.6. LIMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

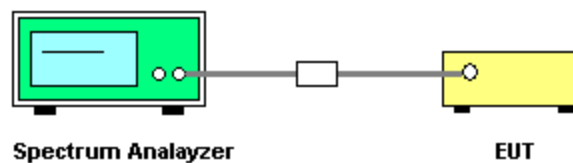
Test Limit

Test Item	Limits
Secondary Radiated Emission Strength	$\leq 4\text{nW}$ ($f < 1000\text{MHz}$)
	$\leq 20\text{nW}$ ($1000\text{MHz} \leq f$)

Test Procedure

1. EUT have the continuous reception mode and fixed only one channelize.
2. Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
3. SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
4. SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
5. Any emissions identified during the sweeps exceeds 1/10 of applicable limit, shall be individually measured using RMS detector and compared to the limits
6. Convert from dBm to nW: $P(\text{nW}) = 1000000 * 10^{[P(\text{dBm})/10]}$

Test Setup



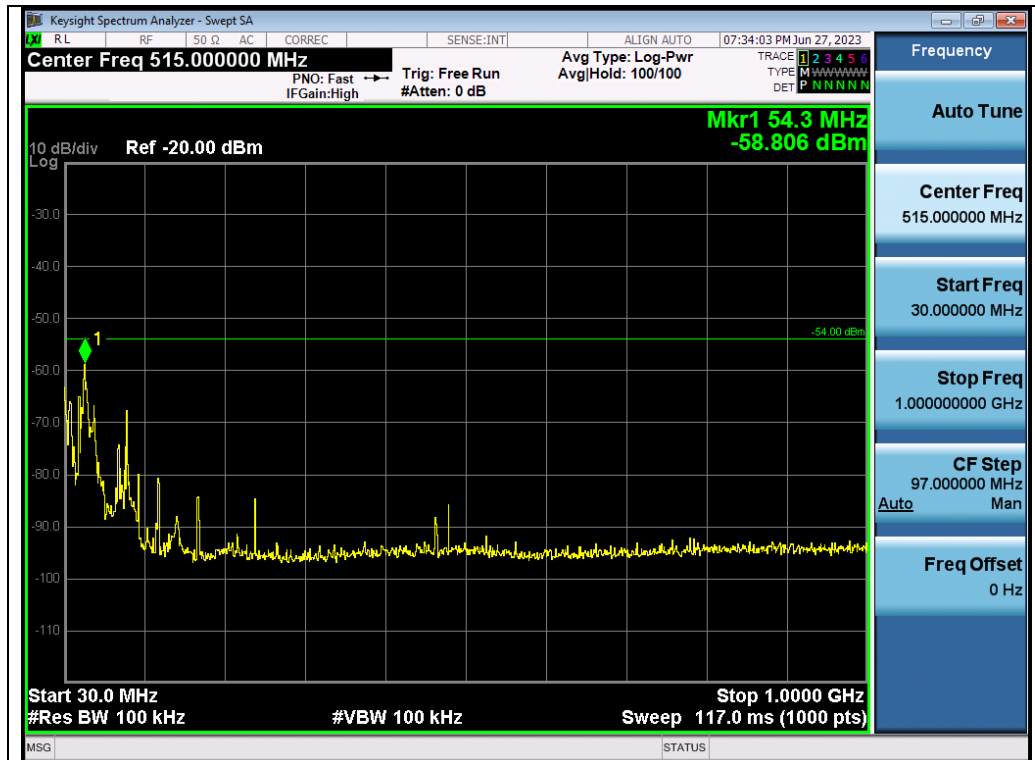
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Test Result

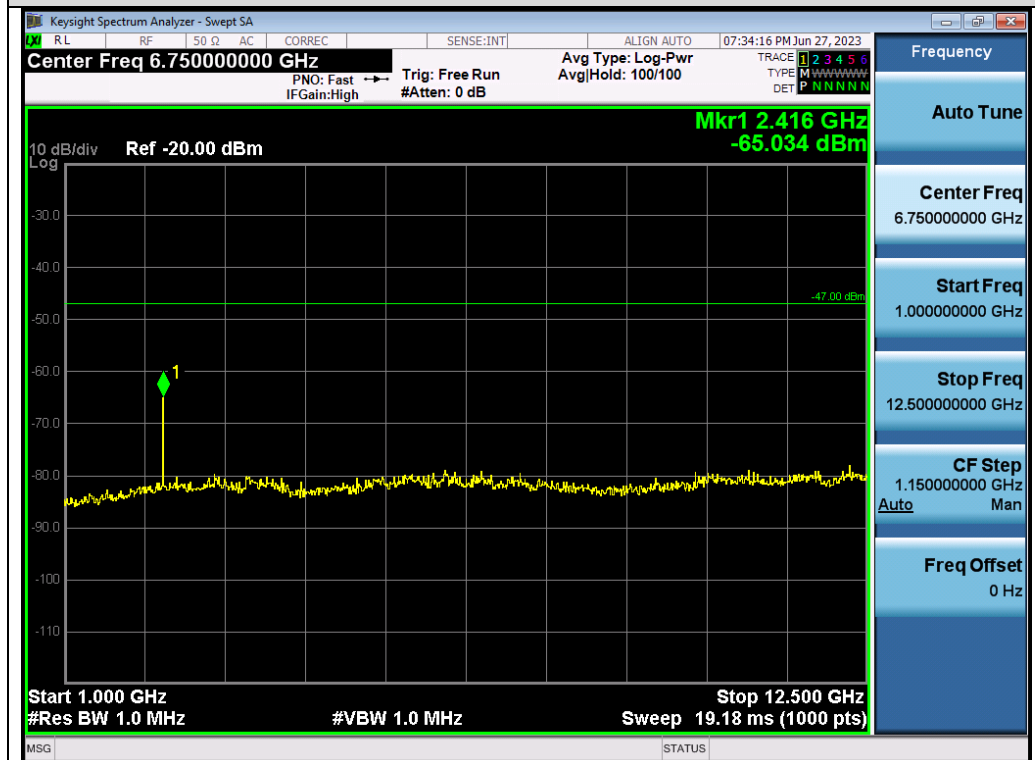
Test Data of Secondary Radiated Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm)	Result (nW)	Limit (nW)	P/F
NV	RX	2402	30~1000	54.3	-58.523	1.405	4	Pass
NV	RX	2402	1000~12500	1011.7	-78.524	0.014	20	Pass
LV	RX	2402	30~1000	54.3	-58.394	1.447	4	Pass
LV	RX	2402	1000~12500	2404	-77.113	0.019	20	Pass
HV	RX	2402	30~1000	54.3	-58.806	1.316	4	Pass
HV	RX	2402	1000~12500	2416	-65.034	0.314	20	Pass

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Test Graphs of Receiver Spurious

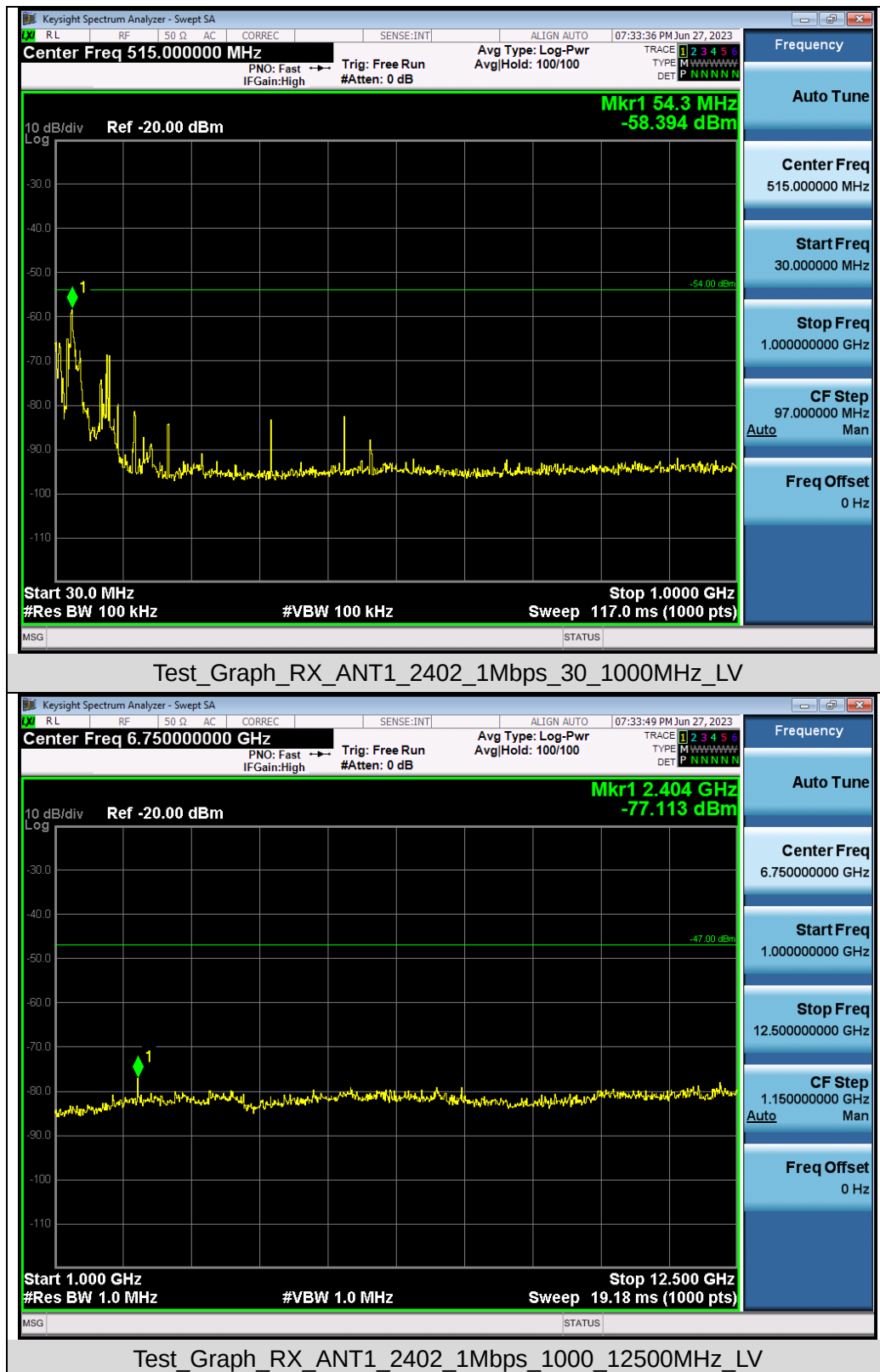


Test_Graph_RX_ANT1_2402_1Mbps_30_1000MHz_HV

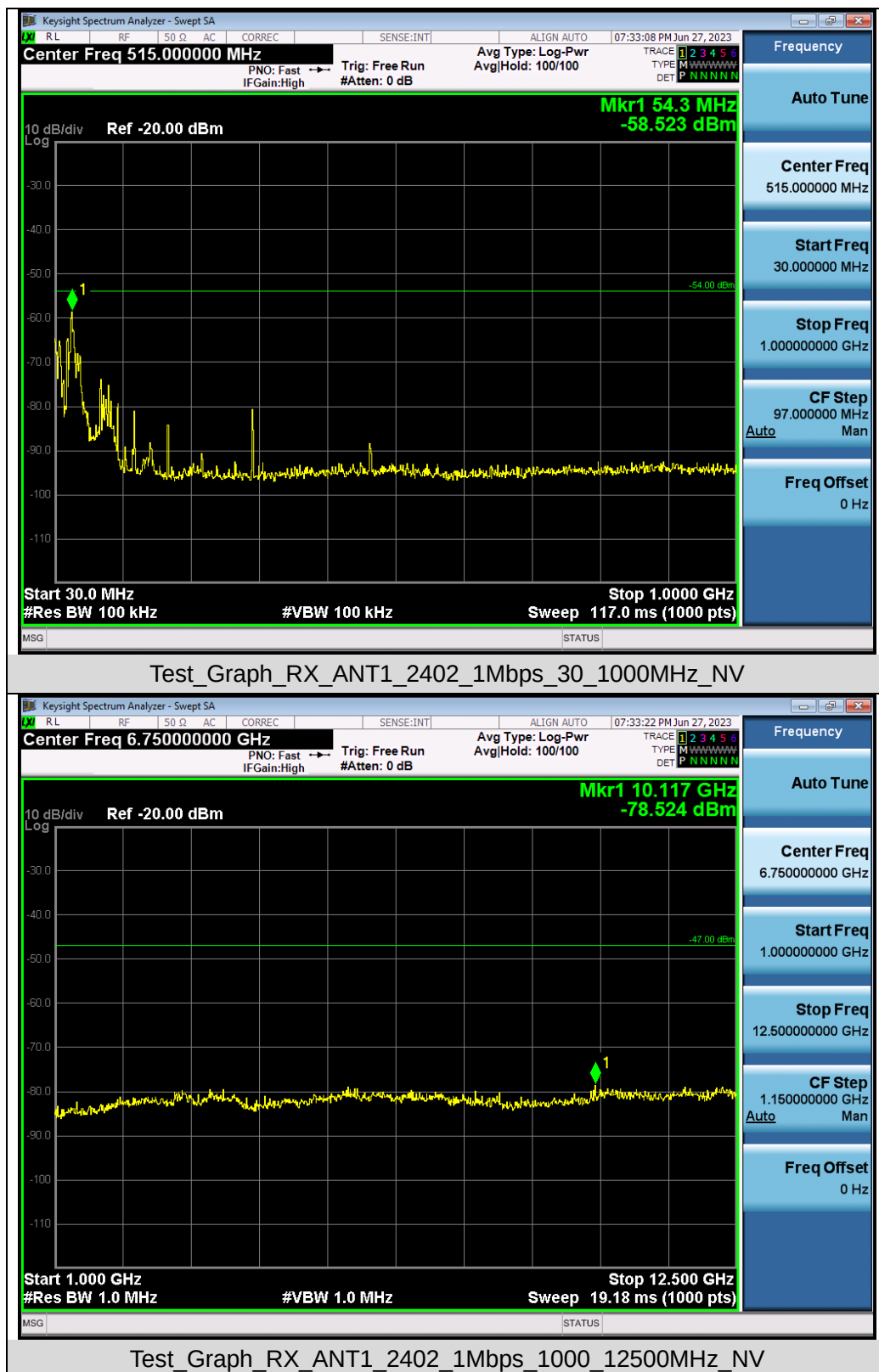


Test_Graph_RX_ANT1_2402_1Mbps_1000_12500MHz_HV

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5.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

5.7.1. LIMIT

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 6.91dBm/MHz, but Antenna Power(Conducted) limit is 3mW/MHz (4.77dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

5.7.2. MEASURING INSTRUMENTS AND SETTING

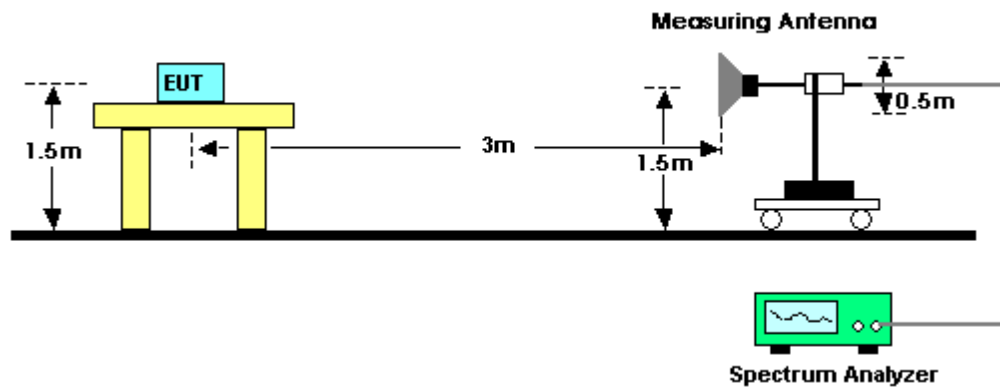
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.7.3. TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{\text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM}\}$ or
 $A = \{\text{EIRP Power [mW]} / 4.9 \text{ for FH}\}$

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5.7.4. TEST SETUP LAYOUT



5.7.5. TEST DEVIATION

There is no deviation with the original standard.

5.7.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.7.7. TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 6.91dBm/MHz.

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5.8. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

5.8.1. LIMIT

Item	Limits
Identification code	≥ 48 bits

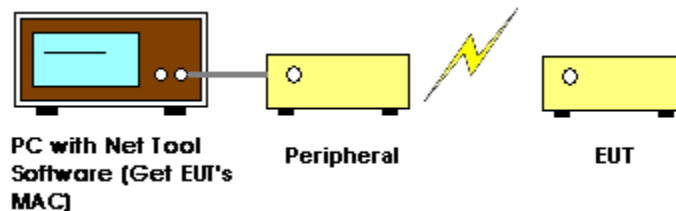
5.8.2. MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

5.8.3. TEST PROCEDURES

- In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

5.8.4. TEST SETUP LAYOUT



5.8.5. TEST DEVIATION

There is no deviation with the original standard.

5.8.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

5.8.7. TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

Test result of radio interference prevention capability		
Item	MAC address	Test result
Identification code	23:06:03:C7:A9:E1	Good

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5.9. HOPPING FREQUENCY DWELL TIME MEASUREMENT

5.9.1. LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

5.9.2. MEASURING INSTRUMENTS AND SETTING

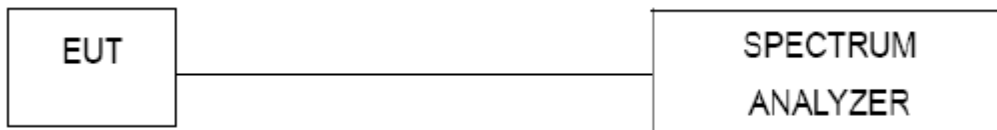
Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
RB	300kHz for Spread BW 1 MHz for duty cycle
VB	300kHz for Spread BW 1 MHz for duty cycle
Detector	Peak
Trace	Max Hold
Sweep	Continuous

5.9.3. TEST PROCEDURES

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer according above list.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4 \text{ seconds}$
(to be determined for each mode, DH1, DH3, DH5)

5.9.4. TEST SETUP LAYOUT



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5.9.5. EUT OPERATION DURING TEST

The EUT was programmed to be in DH5 transmitting mode.

5.9.6. TEST RESULT OF HOPPING FREQUENCY DWELL TIME

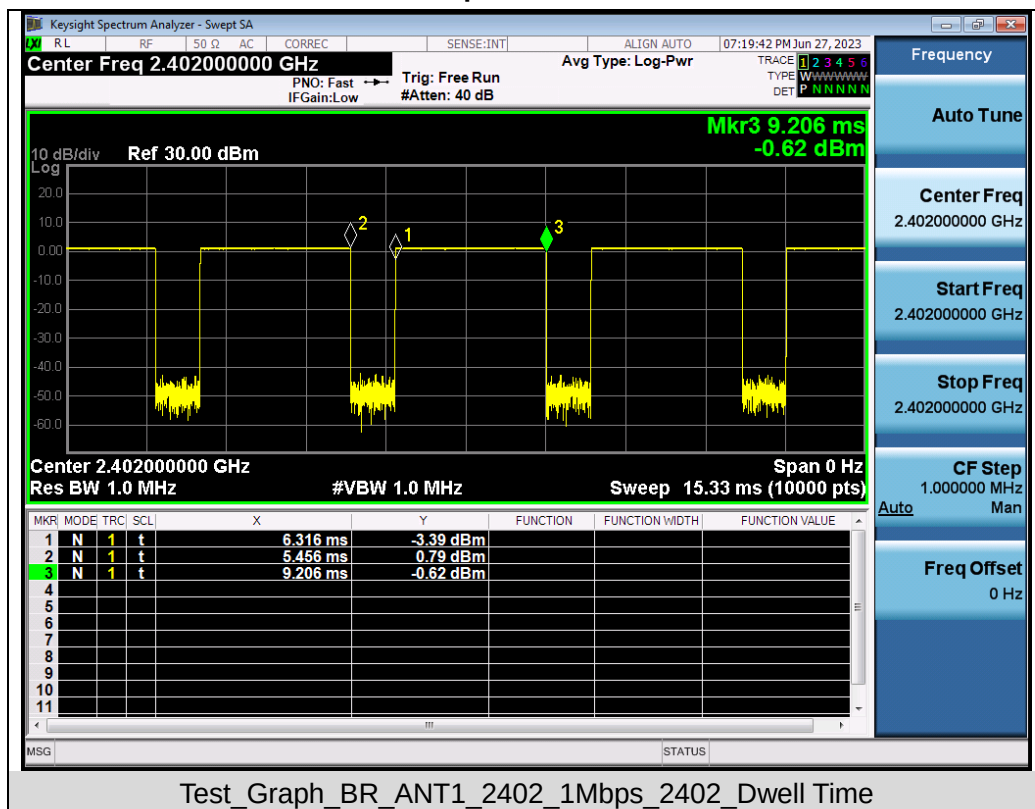
Test Data of Dwell time (Worst Case for GFSK 1Mbps)					
Test Frequency	Spreading factor	Duty cycle	Dwell Time (s)	Limits (s)	P/F
2402	70.765	0.7707	0.2761	0.4	Pass
2441		0.7707	0.2761	0.4	Pass
2480		0.7709	0.2762	0.4	Pass

Duty-cycle = [on time/total time] x 100%

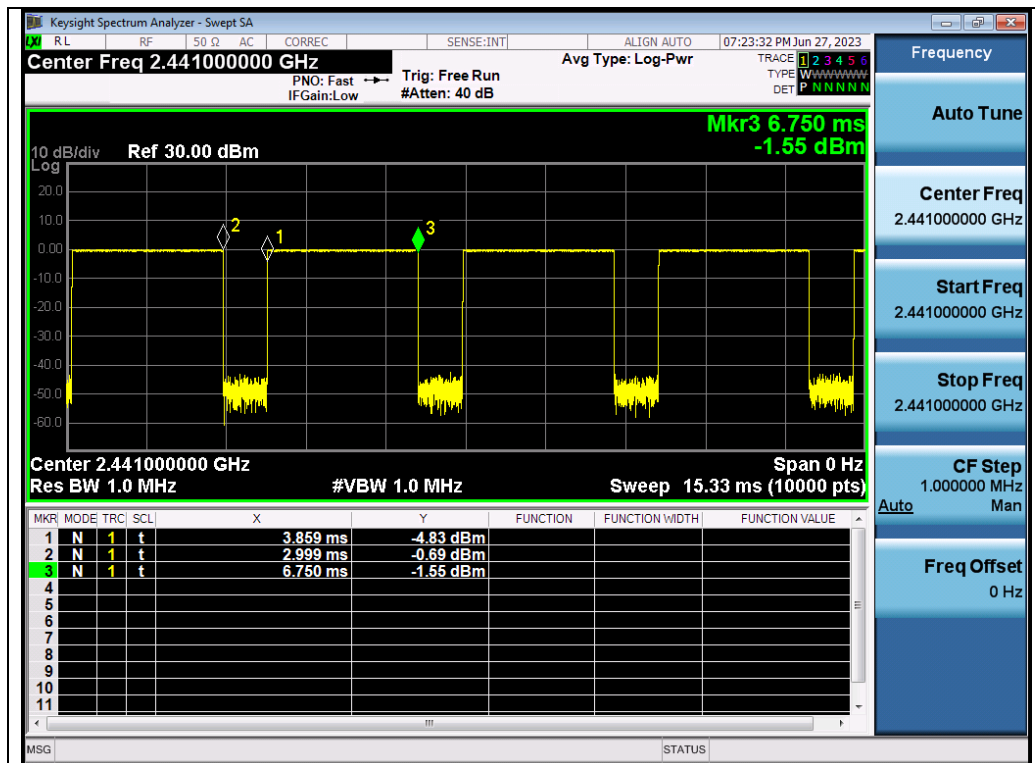
Dwell time = [spreading factor/79] x duty-cycle x 0.4 seconds

Note: The spreading factor of GFSK modulation is the highest and the duty cycle of the DH5 packet is highest, so the GFSK 1Mbps DH5 mode for dwell time is the worst case and only the data of the worst case recorded in this item.

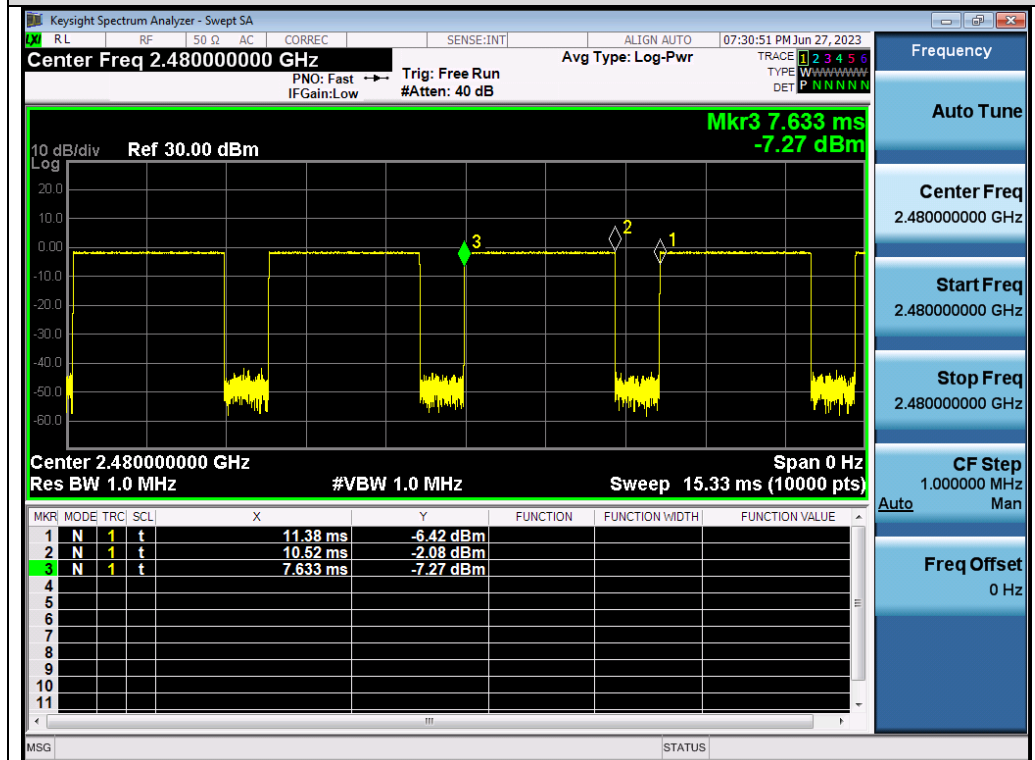
Test Graphs of Dwell Time



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Test_Graph_BR_ANT1_2441_1Mbps_2441_Dwell Time



Test_Graph_BR_ANT1_2480_1Mbps_2480_Dwell Time

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5.10. CONSTRUCTION PROTECTION CONFIRMATION METHOD

5.10.1. LIMIT

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

5.10.2. CONFIRMATION METHOD

The RF and modulation portions are protected against illegal modification as following method:

Protected Method	Description
BT Module Package	BT Module Package of RF (AB5335B) and Modulation (TX: 26MHz) portions is QFN type.
Enclosure	The enclosure is sealed by ultrasonic welding and it cannot be opened easily. Otherwise, the device will be damaged.
User Manual	we will add some warning statements on the user manual to against illegal modification

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01742230602AP01A

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01742230602AP02A

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

----End of Report----

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