
FCC Test Report

Report No.: AGC16184251201FR01

FCC ID : 2AJQ6MFA-15095

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : UNIVERSAL DIGITAL TIMER III

BRAND NAME : MOULTRIE

MODEL NAME : MFA-15095, MFA-15131, MFG-15127, MFG-15129,
MFG-15130

APPLICANT : EBSCO Industries Inc., DBA PRADCO Outdoor Brands

DATE OF ISSUE : Jan. 15, 2026

STANDARD(S) : FCC Part 15 Subpart C §15.247

REPORT VERSION : V1.0

Attestation Of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 15, 2026	Valid	Initial Release

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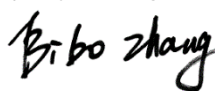
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1. General Information

Applicant	EBSCO Industries Inc., DBA PRADCO Outdoor Brands
Address	5724 Highway 280 East Birmingham, AL 35242 United States
Manufacturer	Focus Technology (ShenZhen) Co., Ltd
Address	15 Block, Third Industrial Area, Longxi Village Longgang District, Shenzhen, China
Factory	Focus Technology (ShenZhen) Co., Ltd
Address	15 Block, Third Industrial Area, Longxi Village Longgang District, Shenzhen, China
Product Designation	UNIVERSAL DIGITAL TIMER III
Brand Name	MOULTRIE
Test Model	MFA-15095
Series Model(s)	MFA-15131, MFG-15127, MFG-15129, MFG-15130
Difference Description	All the same except for the model names and shape of appearances.
Date of receipt of test item	Dec. 05, 2025
Date of Test	Dec. 05, 2025- Jan. 15, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

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

Prepared By		
	Jack Gui (Project Engineer)	Jan. 15, 2026
Reviewed By		
	Bibo Zhang (Reviewer)	Jan. 15, 2026
Approved By		
	Angela Li (Authorized Officer)	Jan. 15, 2026

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2. Product Information

2.1 Product Technical Description

Technology Type	Bluetooth Low Energy
Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V6.0
Modulation Type	BLE ☒ GFSK 1Mbps ☒ GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 Advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	GFSK_1Mbps : -2.353dBm GFSK_2Mbps : -2.363dBm
Hardware Version	V0.3
Software Version	V1.0
Antenna Designation	External Antenna
Antenna Gain	7.434dBi
Power Supply	DC 6V

2.2 Test Frequency List

Frequency Band	Channel Number	Test Frequency
2400~2483.5MHz	0	2402 MHz
	1	2404 MHz
	:	:
	19	2440MHz
	:	:
	38	2478 MHz
	39	2480 MHz
Note: $f = 2402 + 2 \cdot k$ MHz, $k = 0, \dots, 39$ f is the operating frequency (MHz); k is the operating channel.		

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AJQ6MFA-15095**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi
EUT Antenna
The device is equipped with a detachable antenna. The maximum antenna gain is 7.434 dBi. The antenna(s) used with this transmitter are authorized as part of the equipment certification and must not be replaced by the end user with antennas of different types or higher gain.

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3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 6V

3.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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 Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
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	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of Dwell Time	$U_c = \pm 2 \%$
Duty Cycle	$U_c = \pm 2 \%$

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3.5 List of Equipment Use

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-30	2026-01-29
☒	AGC-EM-E150	DC Power Supply	ITECH	IT6720	800103030787810120	2025-03-28	2026-03-27
☒	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	100096	2025-01-14	2026-01-13
☐	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2025-03-14	2027-03-13
☒	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-03-27	2026-03-26
☒	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A119	2.4GHz Filter	SongYi	N/A	N/A	2025-05-16	2026-05-15
☒	AGC-EM-E150	DC Power Supply	ITECH	IT6720	800103030787810120	2025-03-28	2026-03-27
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2025-05-16	2027-05-15

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☐	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71
☒	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A
☐	AGC-EM-S004	RE Test System	Tonscend	TS ⁺ Ver2.1(JS32-RE)	4.0.0.0
☒	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0

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4. System Test Configuration

4.1 EUT Configuration

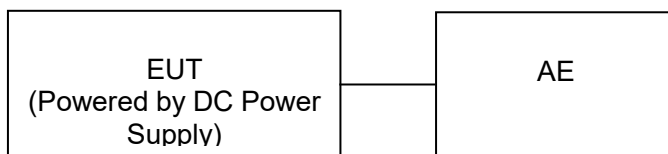
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

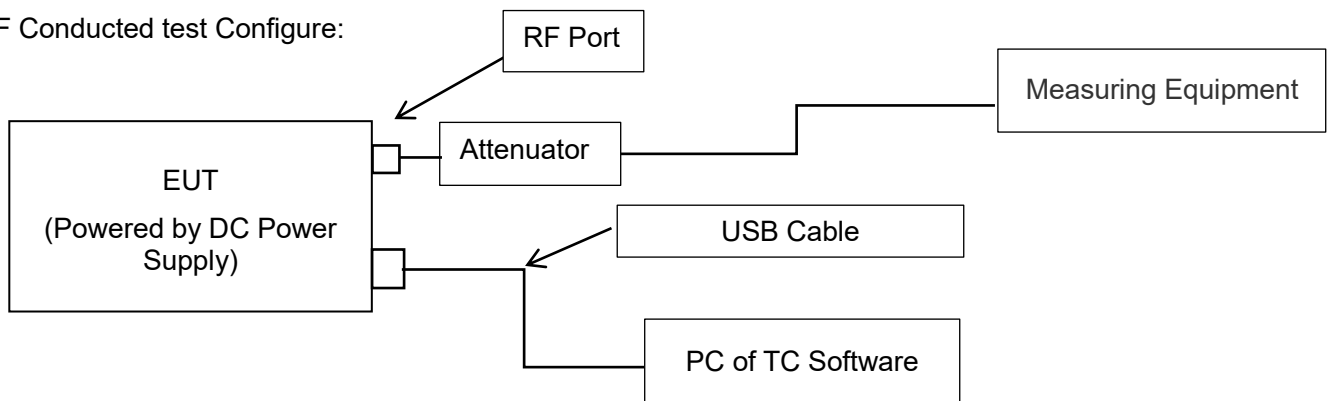
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



RF Conducted test Configure:



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4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	USB Cable	--	--	--	--
2	Laptop	Redmi	RMA2201-AG	--	--

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	--	--	--	--	--

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4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Not applicable

Note: The product is designed to be powered by a direct current (DC) power source and does not have the conditions to connect to an alternating current (AC) power grid.

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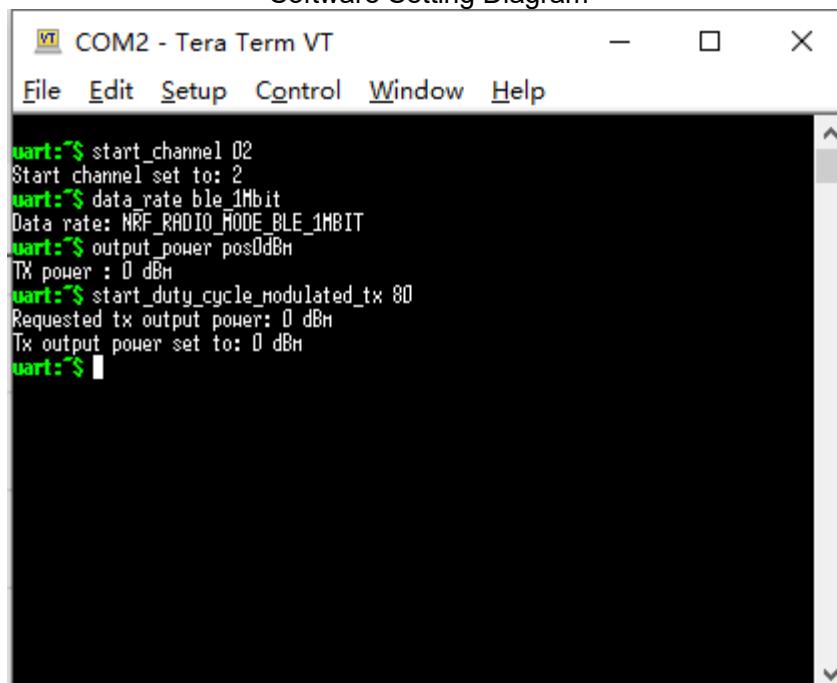
5. Description of Test Modes

Summary Table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth–LE(1Mbps/2Mbps)/GFSK
Radiated & Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(DC source power supply) Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(DC source power supply) Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(DC source power supply) Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps(DC source power supply) Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps(DC source power supply) Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps(DC source power supply)
AC Conducted Emission	Not applicable

Note:

- Only the result of the worst case was recorded in the report, if no other cases.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- The manufacturer of RF external cable claims that the cable loss is 0.5dB, and the cable loss and attenuator have been compensated into the Corrections Configuration of measuring equipment.
- Input correction factor includes external cable loss and attenuator amplitude compensation. The formula is:
Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

Software Setting Diagram



```

COM2 - Tera Term VT
File Edit Setup Control Window Help

uart:$ start_channel 02
Start channel set to: 2
uart:$ data_rate ble 1Mbit
Data rate: NRF_RADIO_MODE_BLE_1MBIT
uart:$ output_power pos0dBm
TX power : 0 dBm
uart:$ start_duty_cycle_modulated_tx 80
Requested tx output power: 0 dBm
Tx output power set to: 0 dBm
uart:$

```

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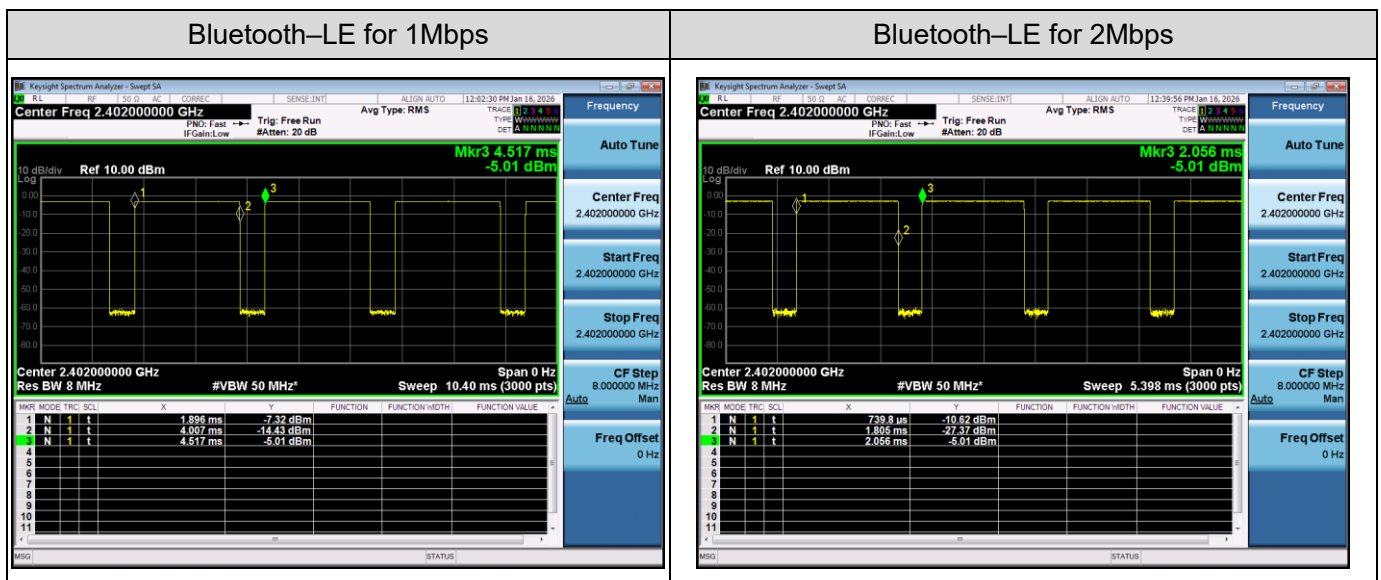
6. Duty Cycle Measurement

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(μs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	2111	80.54	0.94	2.62
BLE_2Mbps	1065.2	80.93	0.92	1.32

Remark:

1. Duty Cycle factor = $10 * \log (1/ \text{Duty cycle})$
 2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value
- The test plots as follows:



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7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

☒ For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:

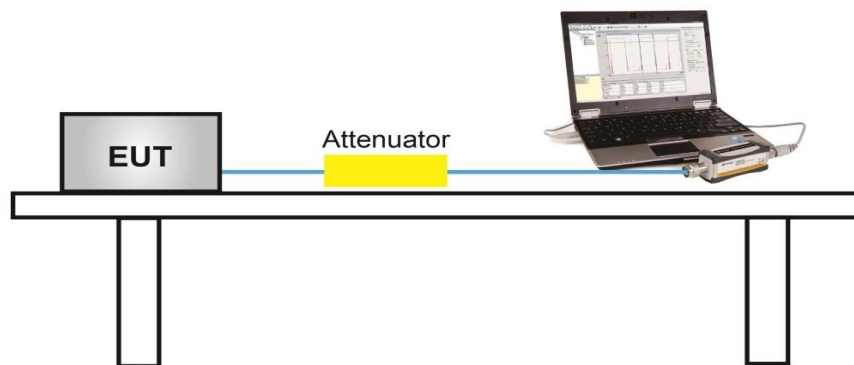
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the RBW $\geq$ DTS bandwidth
3. Set the VBW $\geq$ $[3 \times \text{RBW}]$.
4. Span $\geq$ $[3 \times \text{RBW}]$.
5. Sweep = auto couple.
6. Detector Function = Peak.
7. Trace mode = Max hold.
8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:

1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
2. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

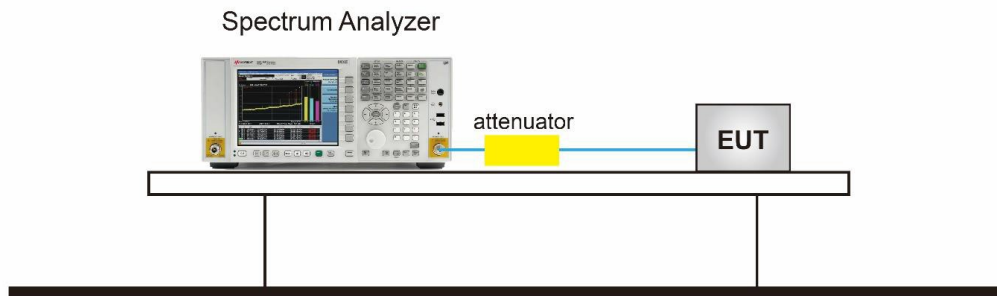
7.3 Measurement Setup (Block Diagram of Configuration)

☐ For Average power test setup



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☒ For peak power test setup



7.4 Measurement Result

Test Data of Conducted Output Power				
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
GFSK_1Mbps	2402	-2.933	≤28.566	Pass
	2440	-2.600	≤28.566	Pass
	2480	-2.353	≤28.566	Pass
GFSK_2Mbps	2402	-2.898	≤28.566	Pass
	2440	-2.582	≤28.566	Pass
	2480	-2.363	≤28.566	Pass

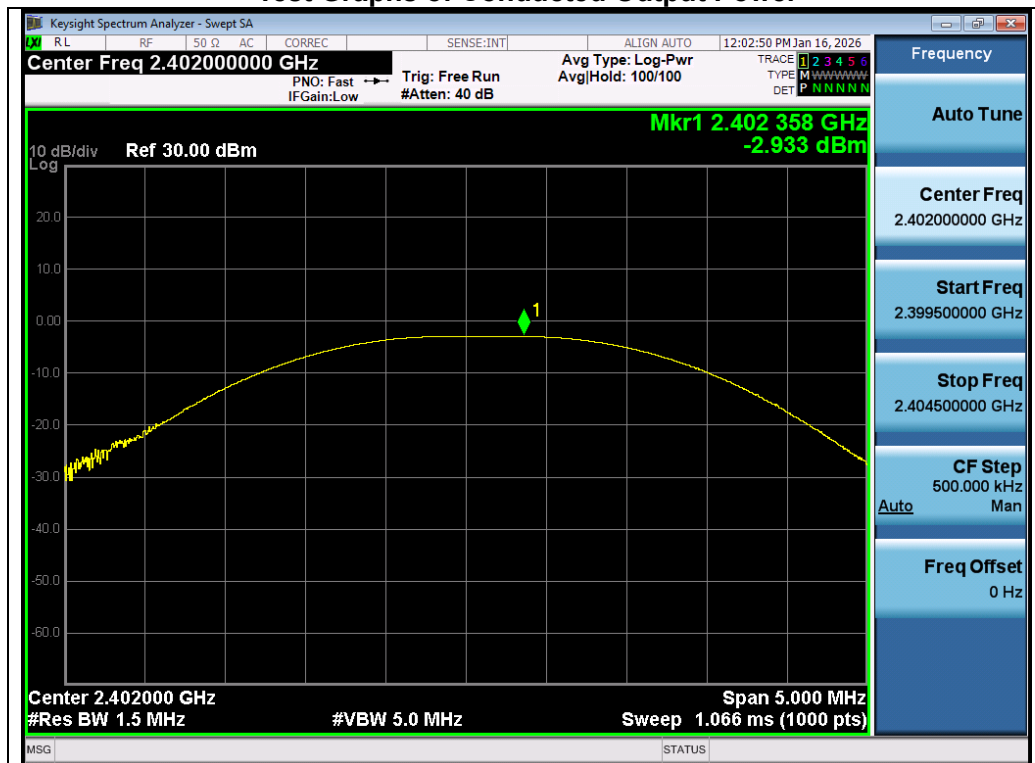
Note:

For antenna gain greater than 6 dBi, the output power has been reduced accordingly to meet Power limits.
The limit is determined as: Conducted Output Power Limit=30-(Ant Gain-6).

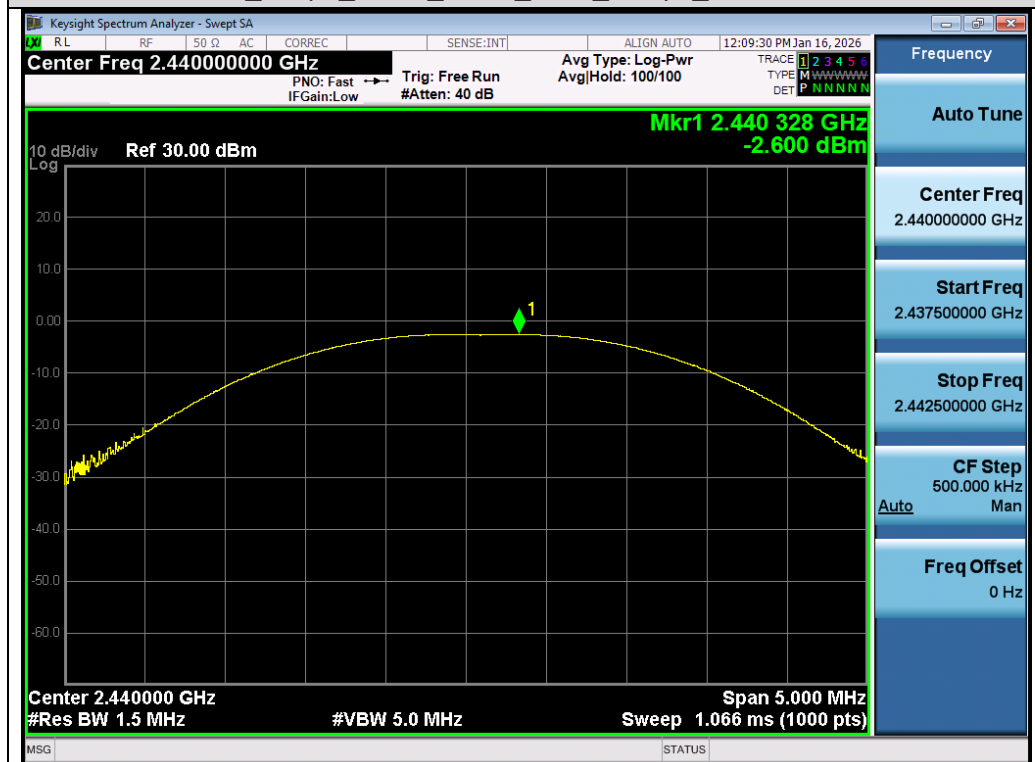
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Test Graphs of Conducted Output Power

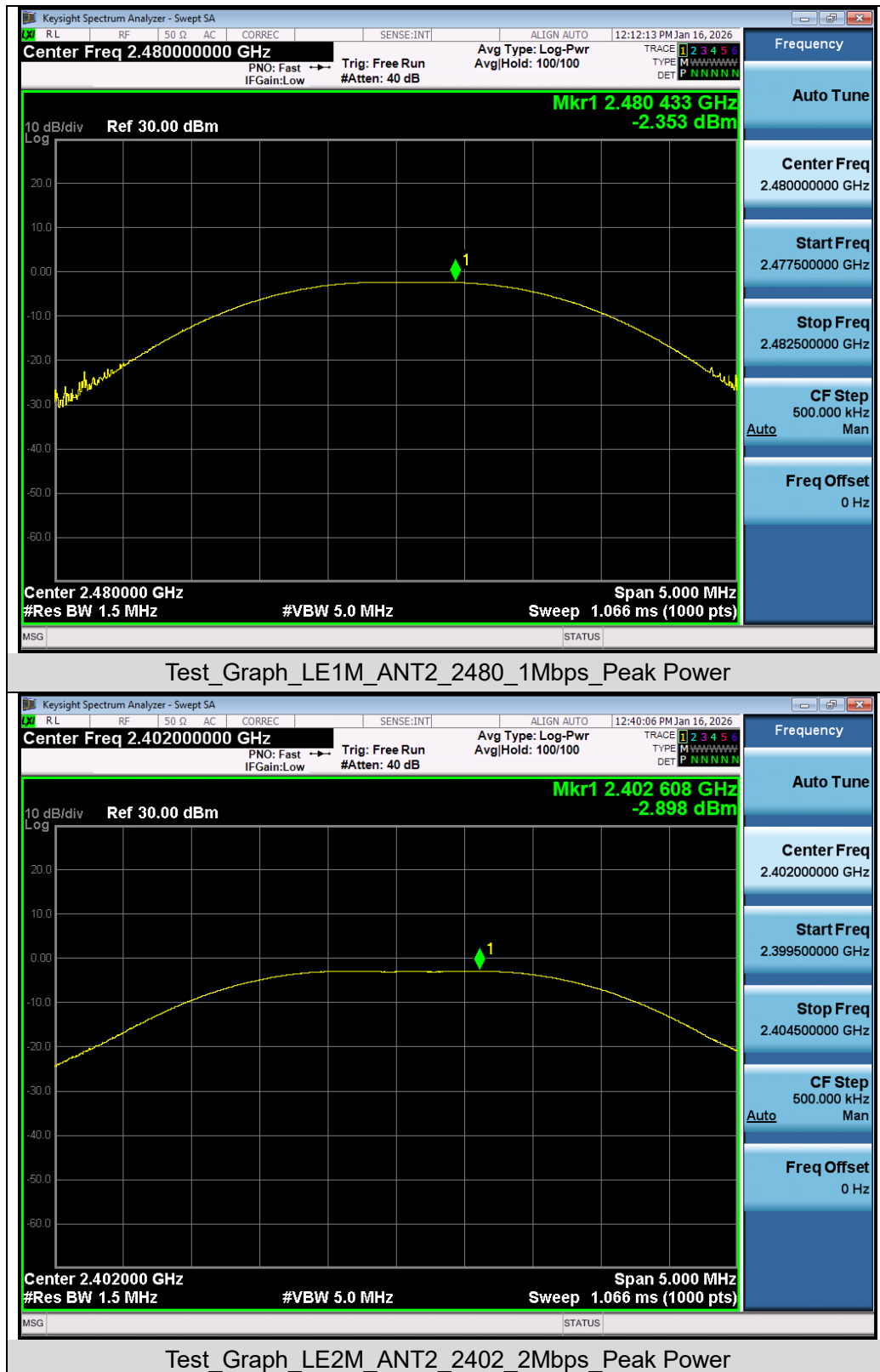


Test_Graph_LE1M_ANT2_2402_1Mbps_Peak Power

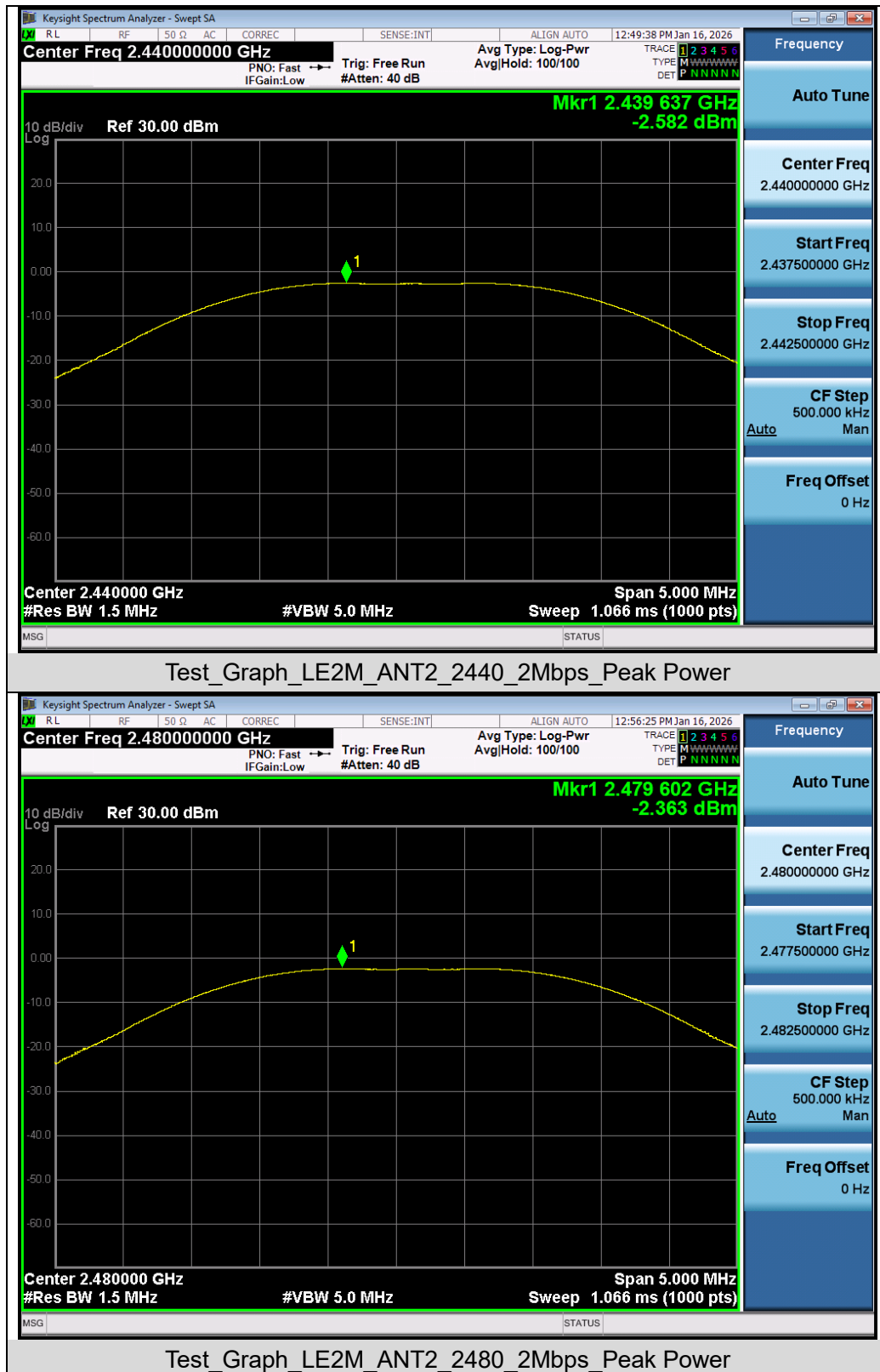


Test_Graph_LE1M_ANT2_2440_1Mbps_Peak Power

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8. 6dB Bandwidth Measurement

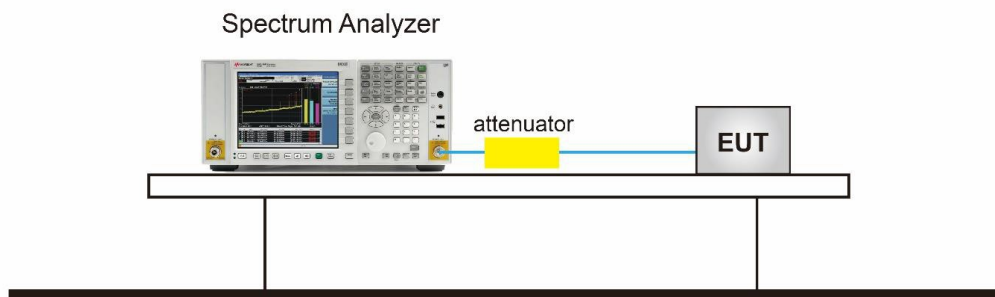
8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.2(6dB BW).
1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
 2. Set to the maximum power setting and enable the EUT transmit continuously.
 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz, Set the Video bandwidth (VBW) $\geq 3 \times$ RBW, In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
 4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) $\geq 3 \times$ RBW.
 5. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)

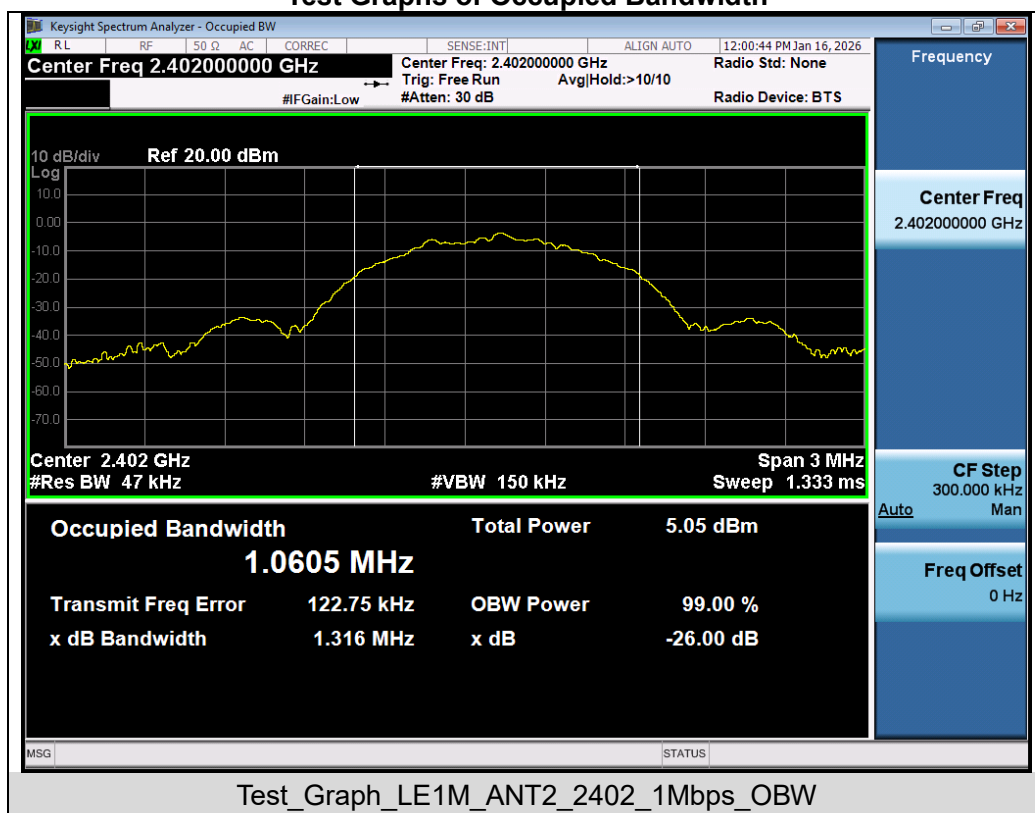


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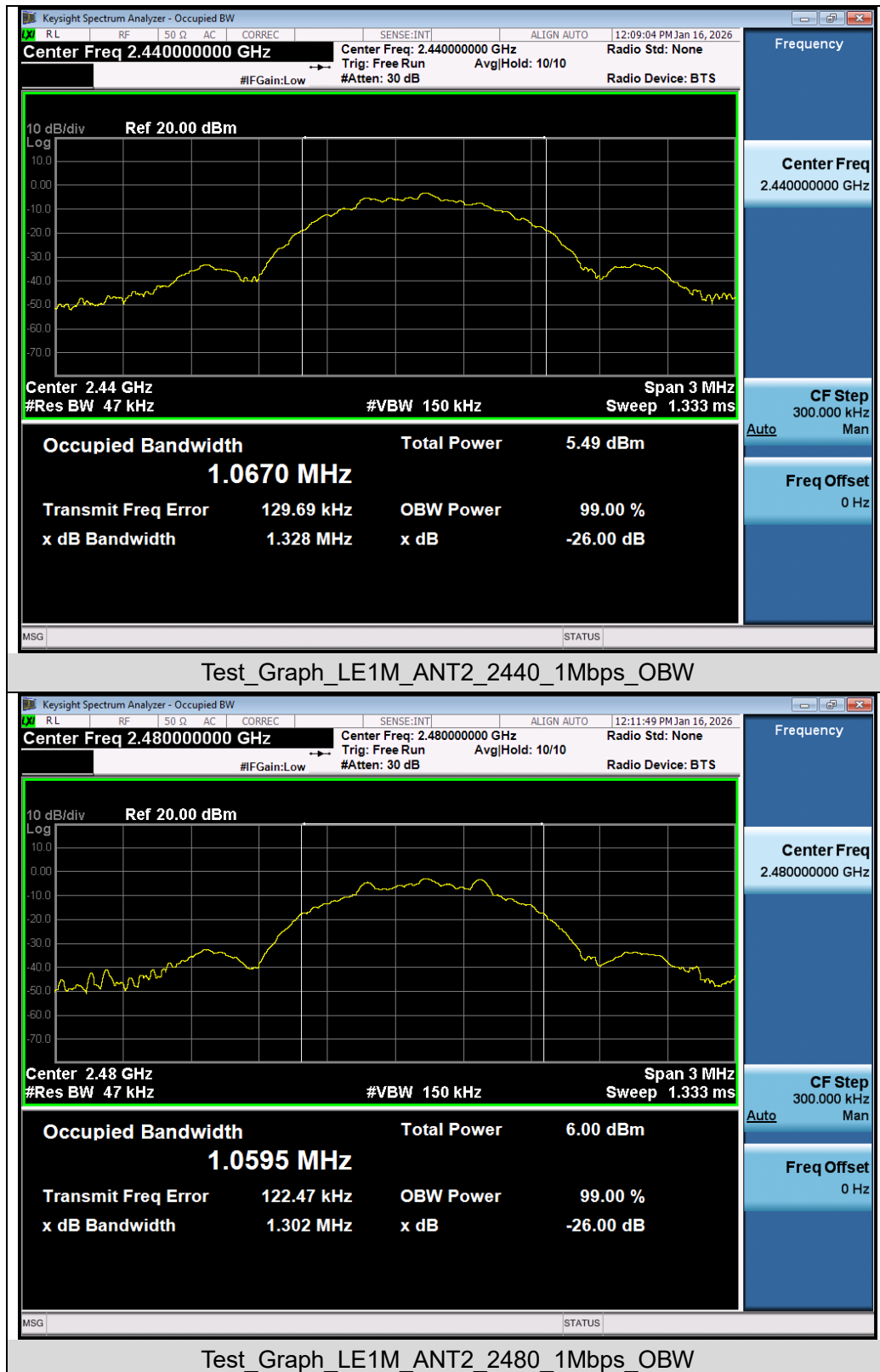
8.4 Measurement Results

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
GFSK_1Mbps	2402	1.060	0.691	≥ 0.5	Pass
	2440	1.067	0.691	≥ 0.5	Pass
	2480	1.060	0.680	≥ 0.5	Pass
GFSK_2Mbps	2402	2.096	1.161	≥ 0.5	Pass
	2440	2.089	1.189	≥ 0.5	Pass
	2480	2.119	1.133	≥ 0.5	Pass

Test Graphs of Occupied Bandwidth

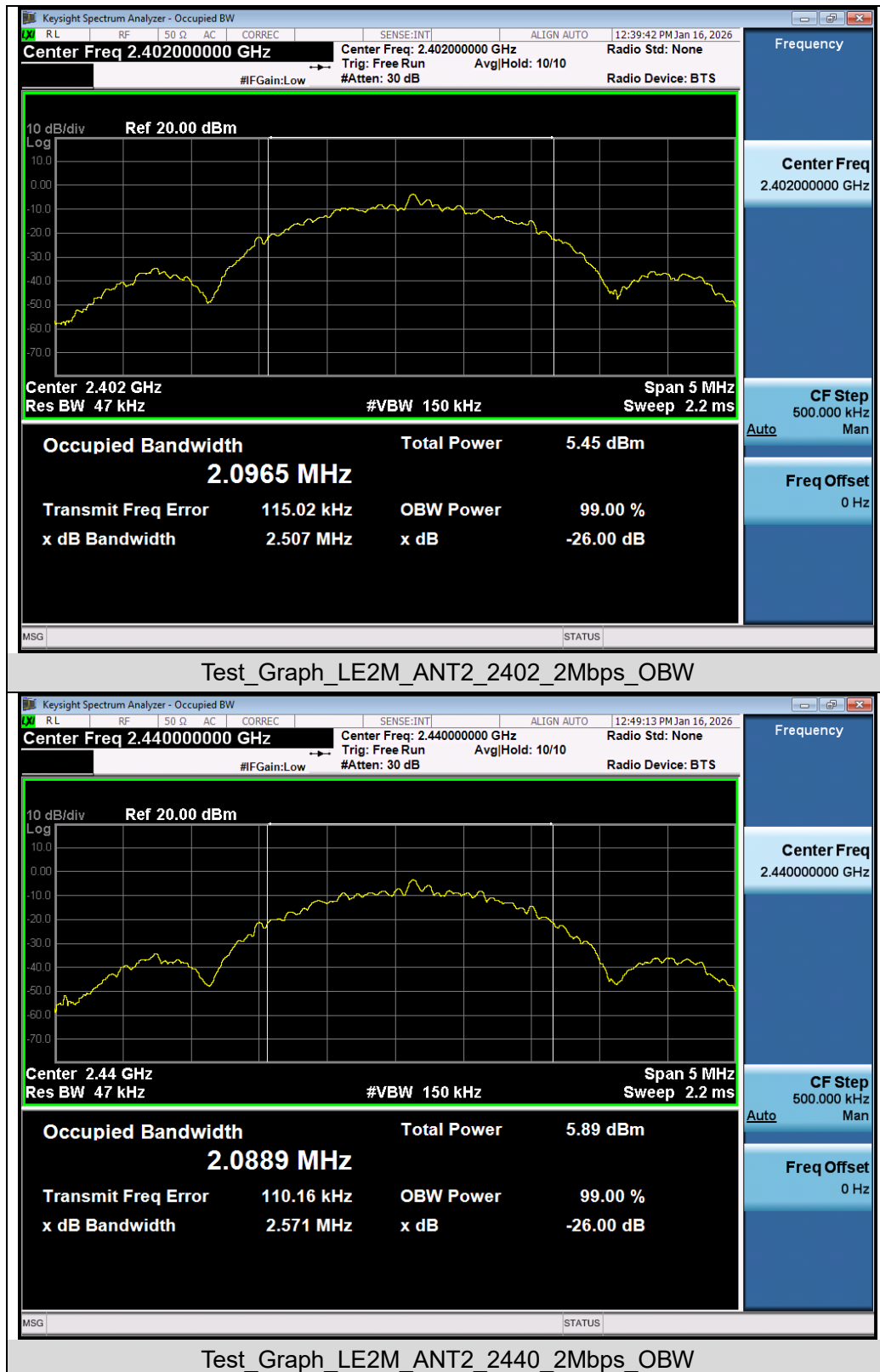


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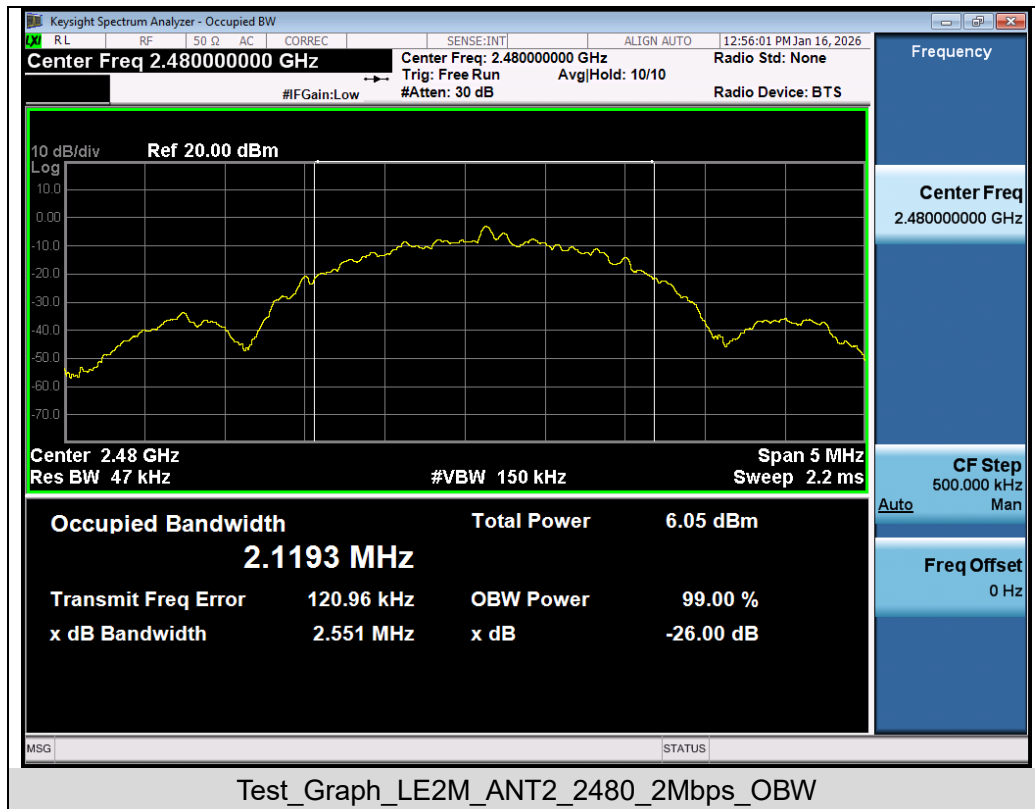
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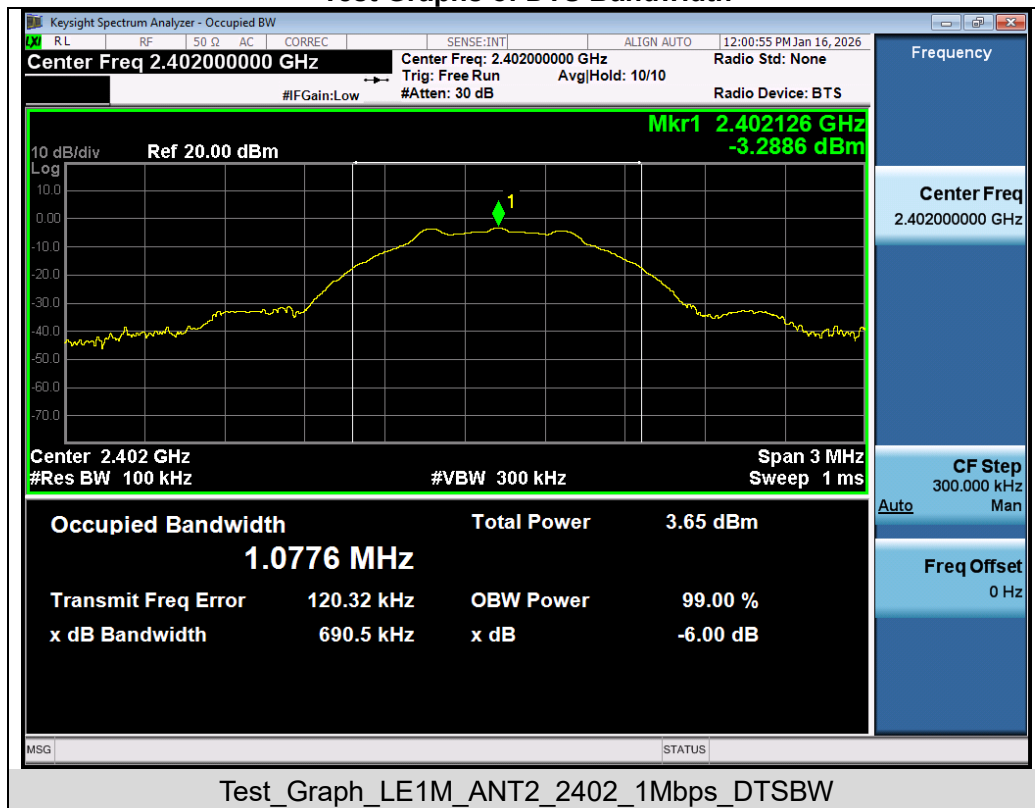


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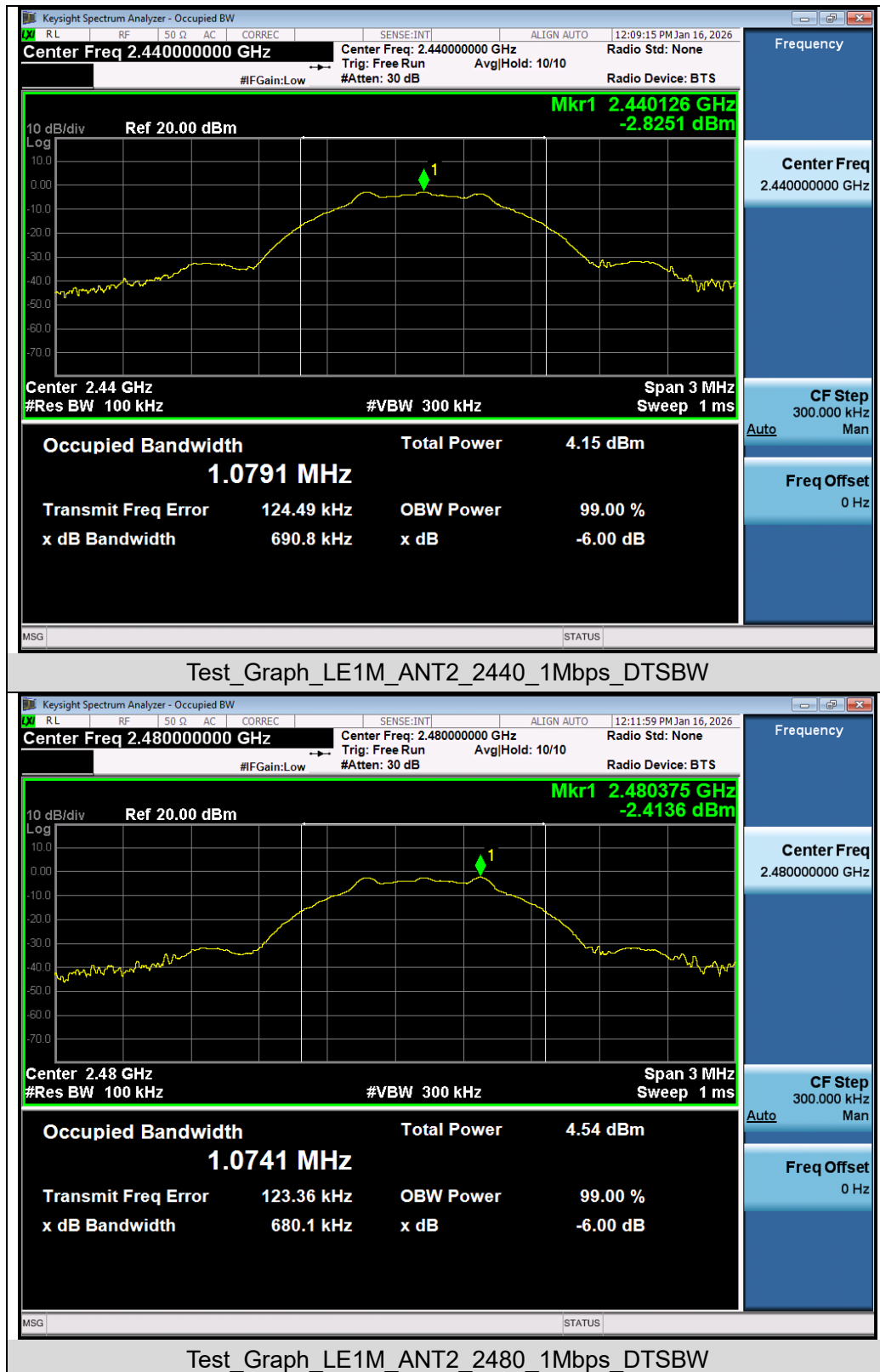
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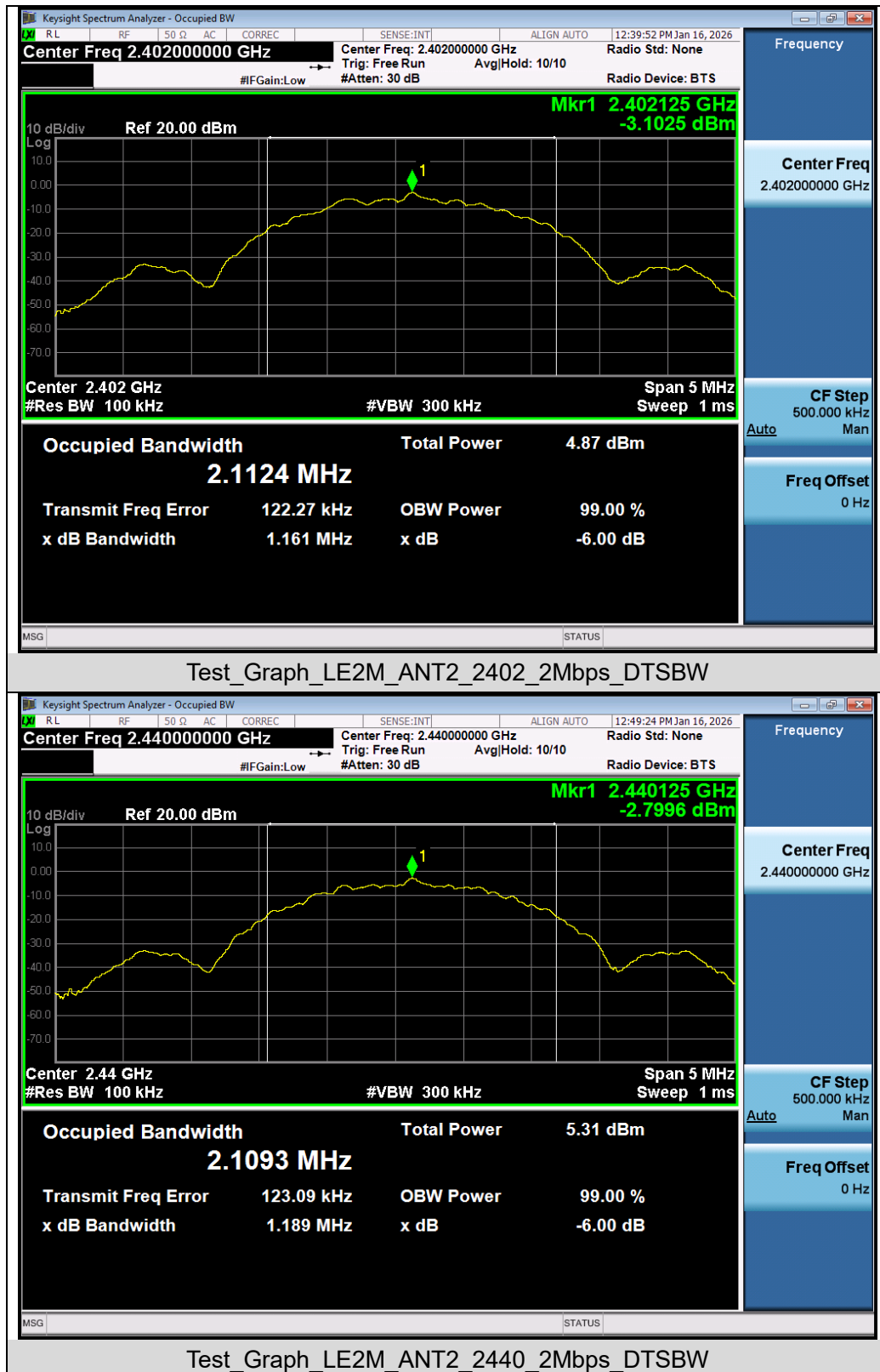
Test Graphs of DTS Bandwidth



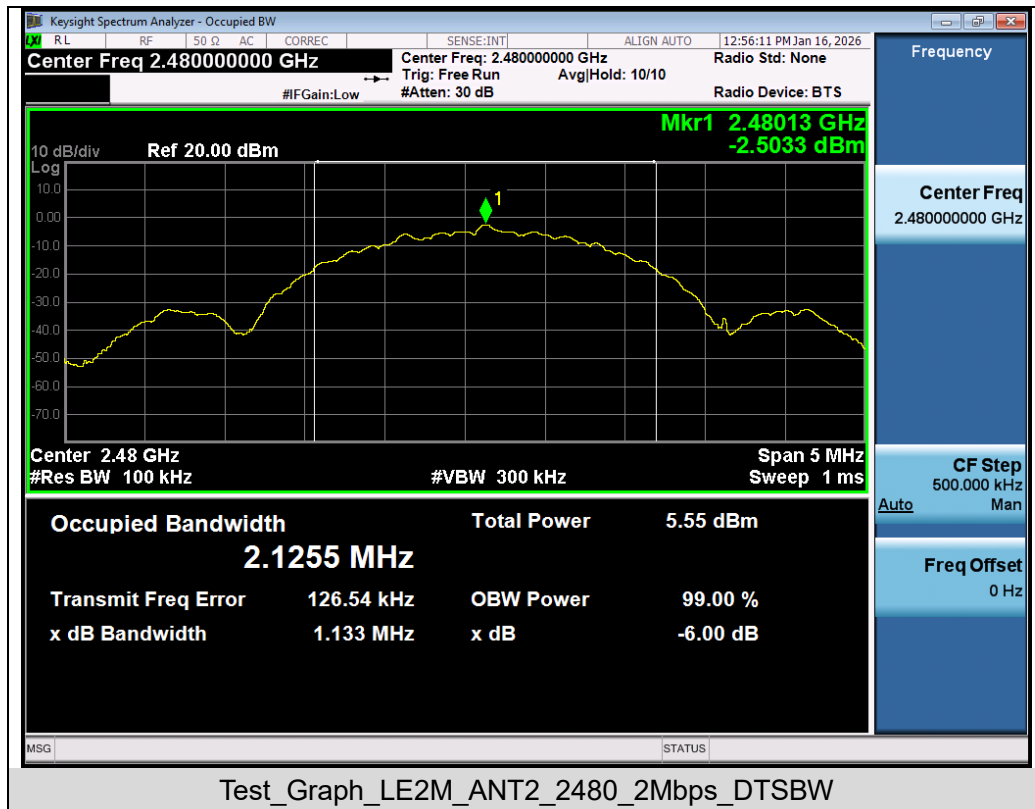
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9. Power Spectral Density Measurement

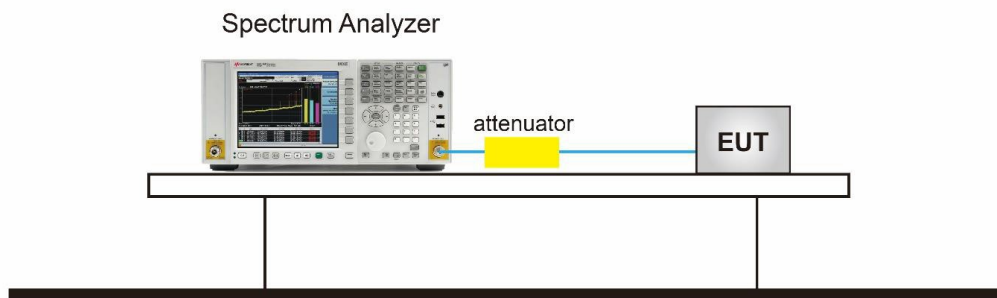
9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- 6. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 Measurement Results

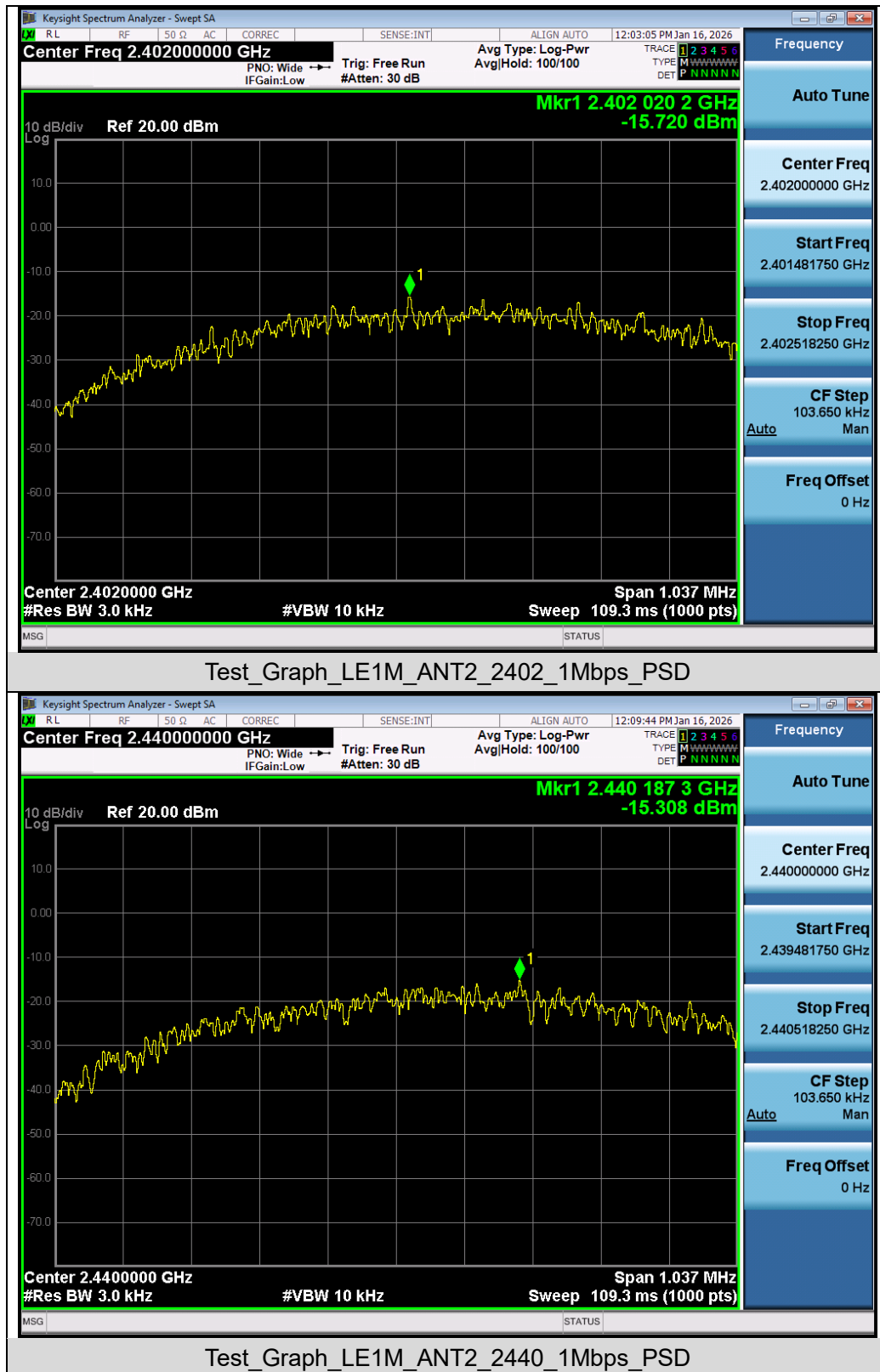
Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
GFSK_1Mbps	2402	-15.720	≤ 6.566	Pass
	2440	-15.308	≤ 6.566	Pass
	2480	-15.266	≤ 6.566	Pass
GFSK_2Mbps	2402	-18.810	≤ 6.566	Pass
	2440	-18.688	≤ 6.566	Pass
	2480	-19.282	≤ 6.566	Pass

Note: For antenna gains greater than 6 dBi, the power density is reduced by the amount that the antenna gain exceeds 6 dBi, in order to comply with applicable limits.
The limit is determined as: Limit = 8– (Antenna Gain – 6).

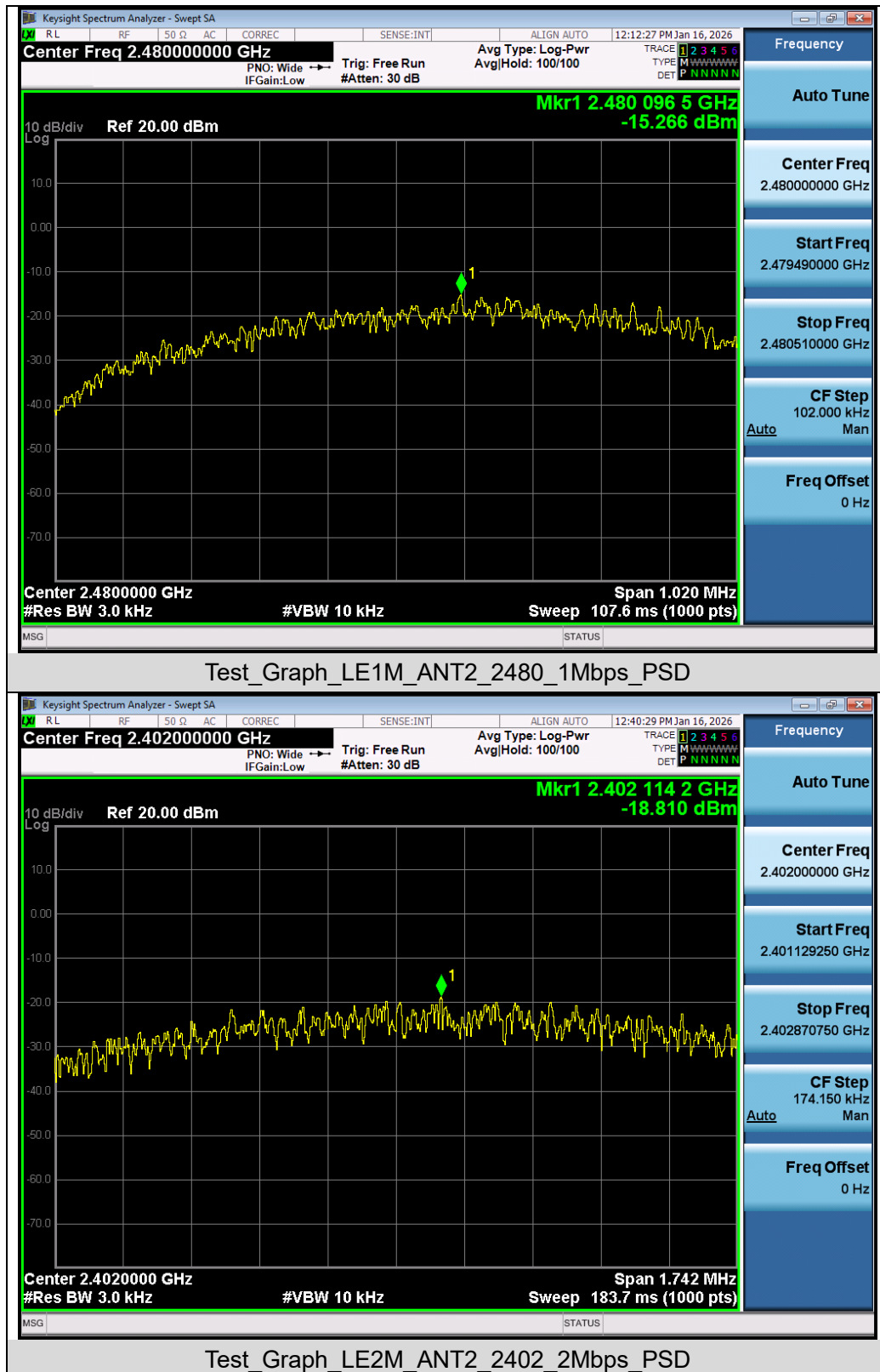
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Test Graphs of Conducted Output Power Spectral Density

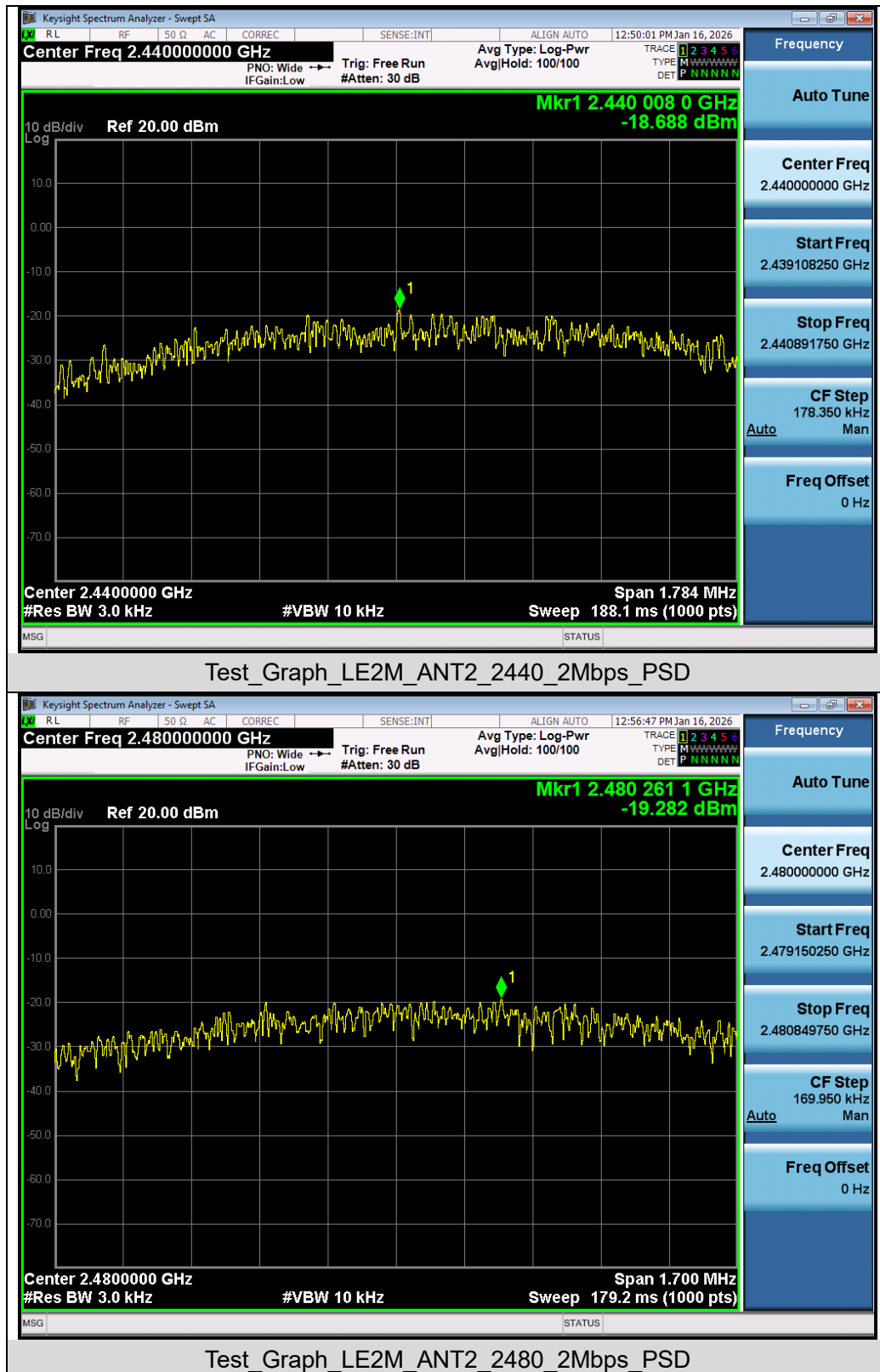


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10. Conducted Band Edge and Out-of-Band Emissions

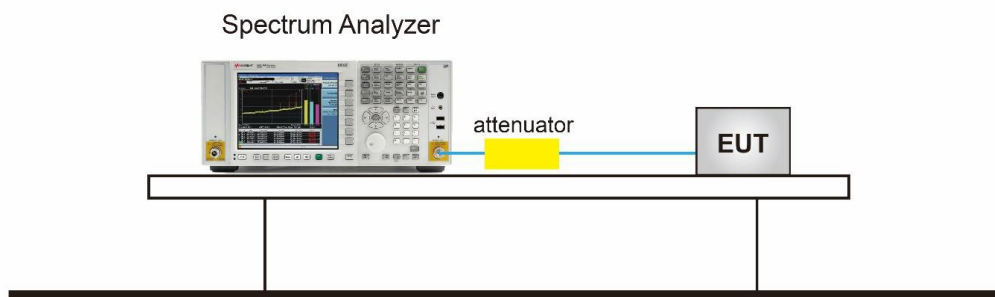
10.1 Provisions Applicable

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
 1. Set instrument center frequency to DTS channel center frequency
 2. Set the span to ≥ 1.5 times the DTS bandwidth
 3. Set the RBW = 100 kHz
 4. Set the VBW $\geq 3 \times$ RBW
 5. Detector = peak
 6. Sweep time = auto couple
 7. Trace mode = max hold
 8. Allow trace to fully stabilize
 9. Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)
- Emission level measurement
 1. Set the center frequency and span to encompass frequency range to be measured
 2. RBW = 100kHz
 3. VBW = 300kHz
 4. Detector = Peak
 5. Trace mode = max hold
 6. Sweep time = auto couple
 7. The trace was allowed to stabilize
 8. Input compensation coefficient (dB) = Cable Loss (dB) + Attenuator attenuation value (dB)

10.3 Measurement Setup (Block Diagram of Configuration)



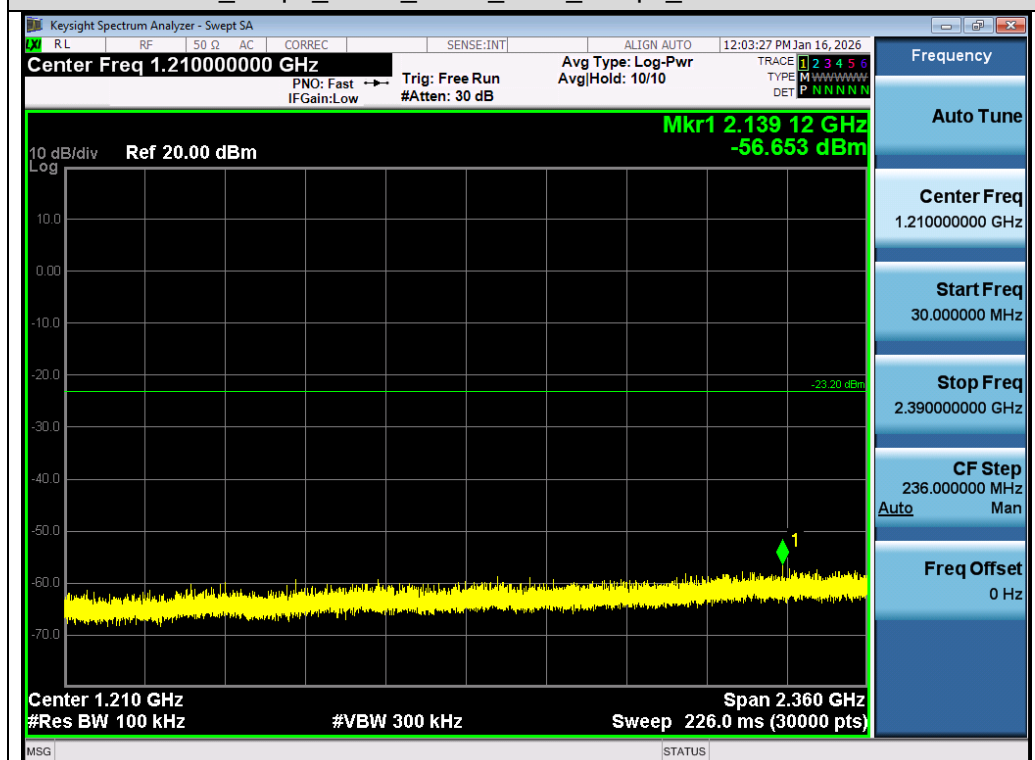
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10.4 Measurement Results

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

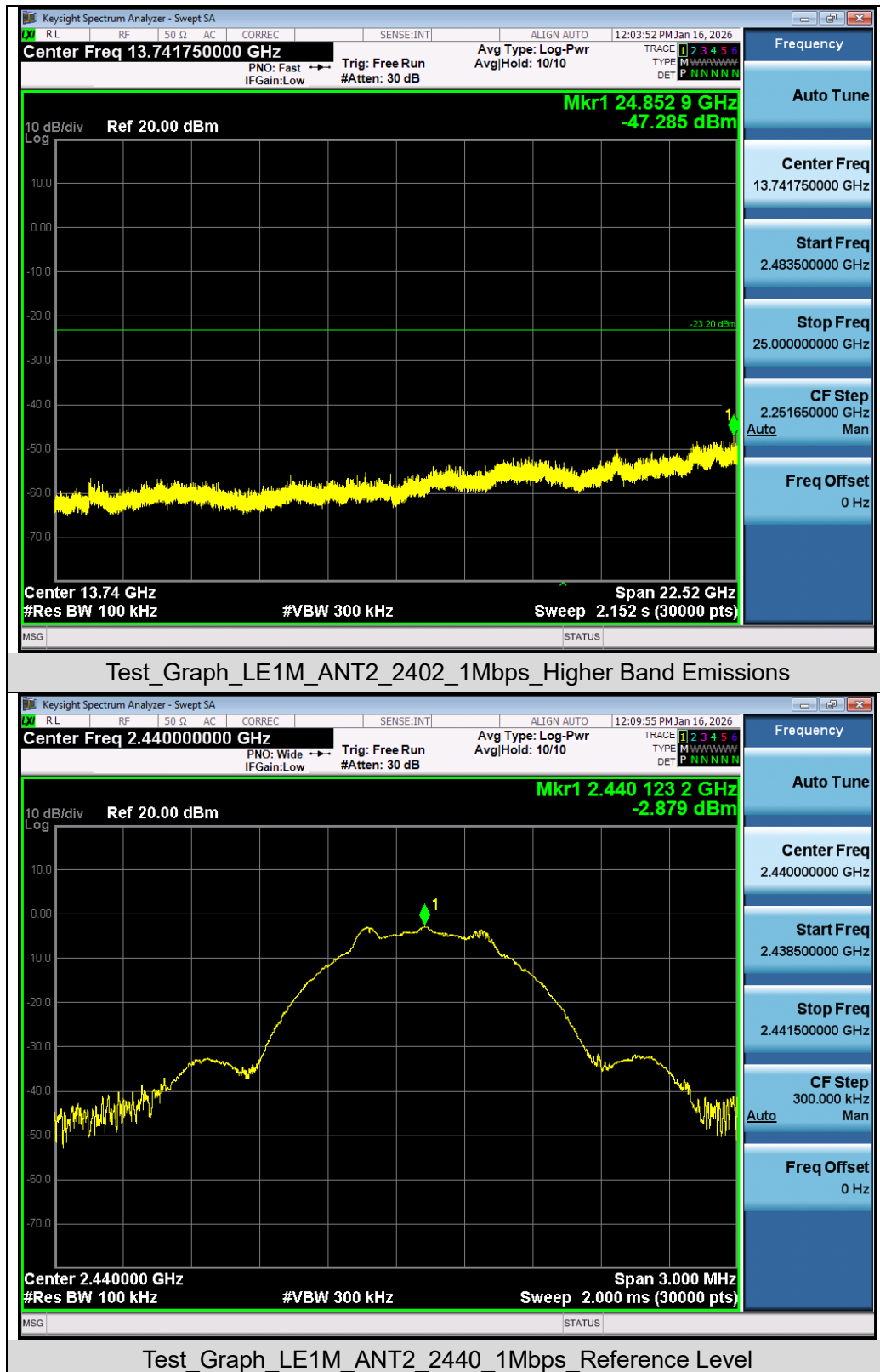


Test_Graph_LE1M_ANT2_2402_1Mbps_Reference Level

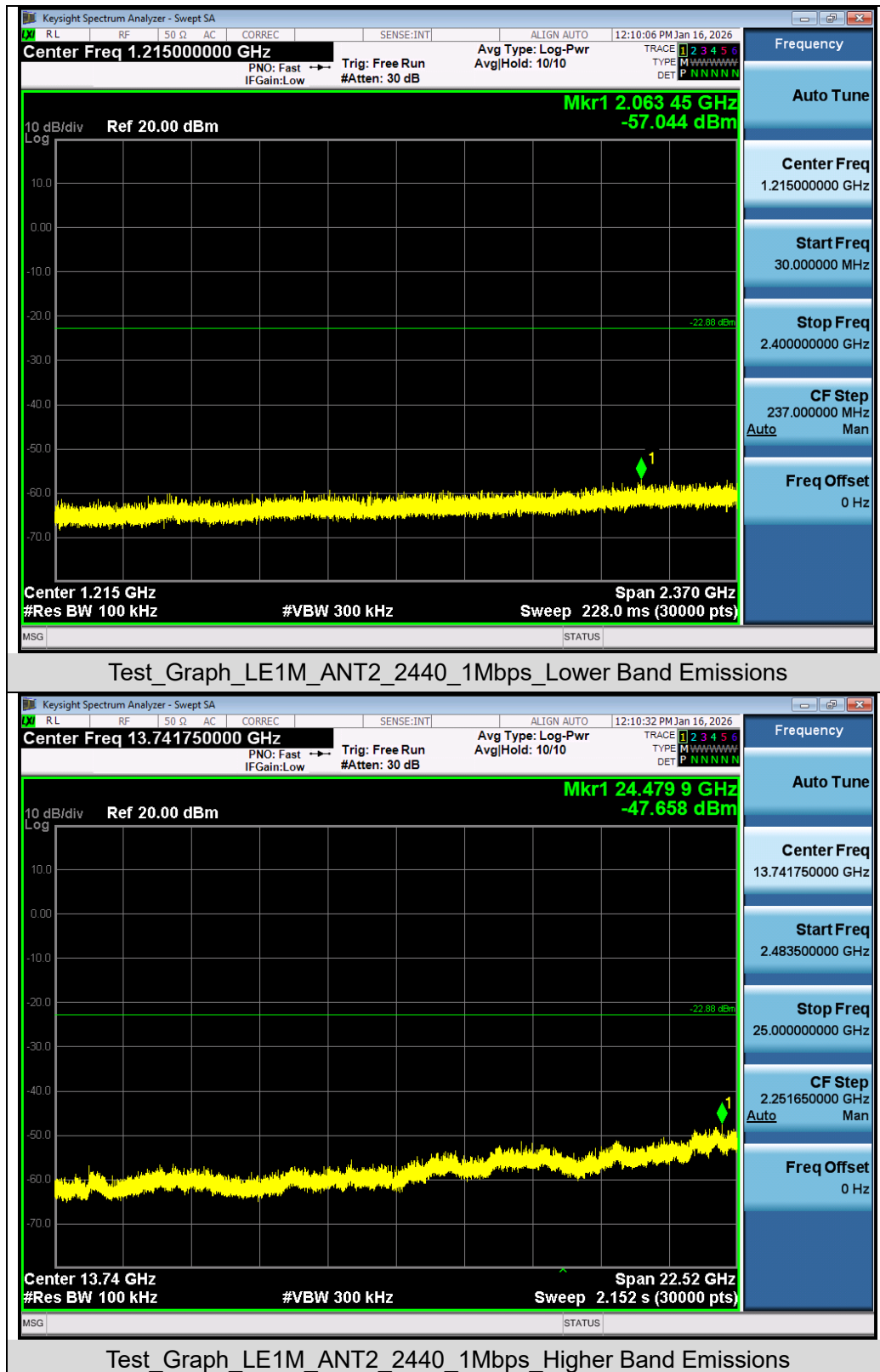


Test_Graph_LE1M_ANT2_2402_1Mbps_Lower Band Emissions

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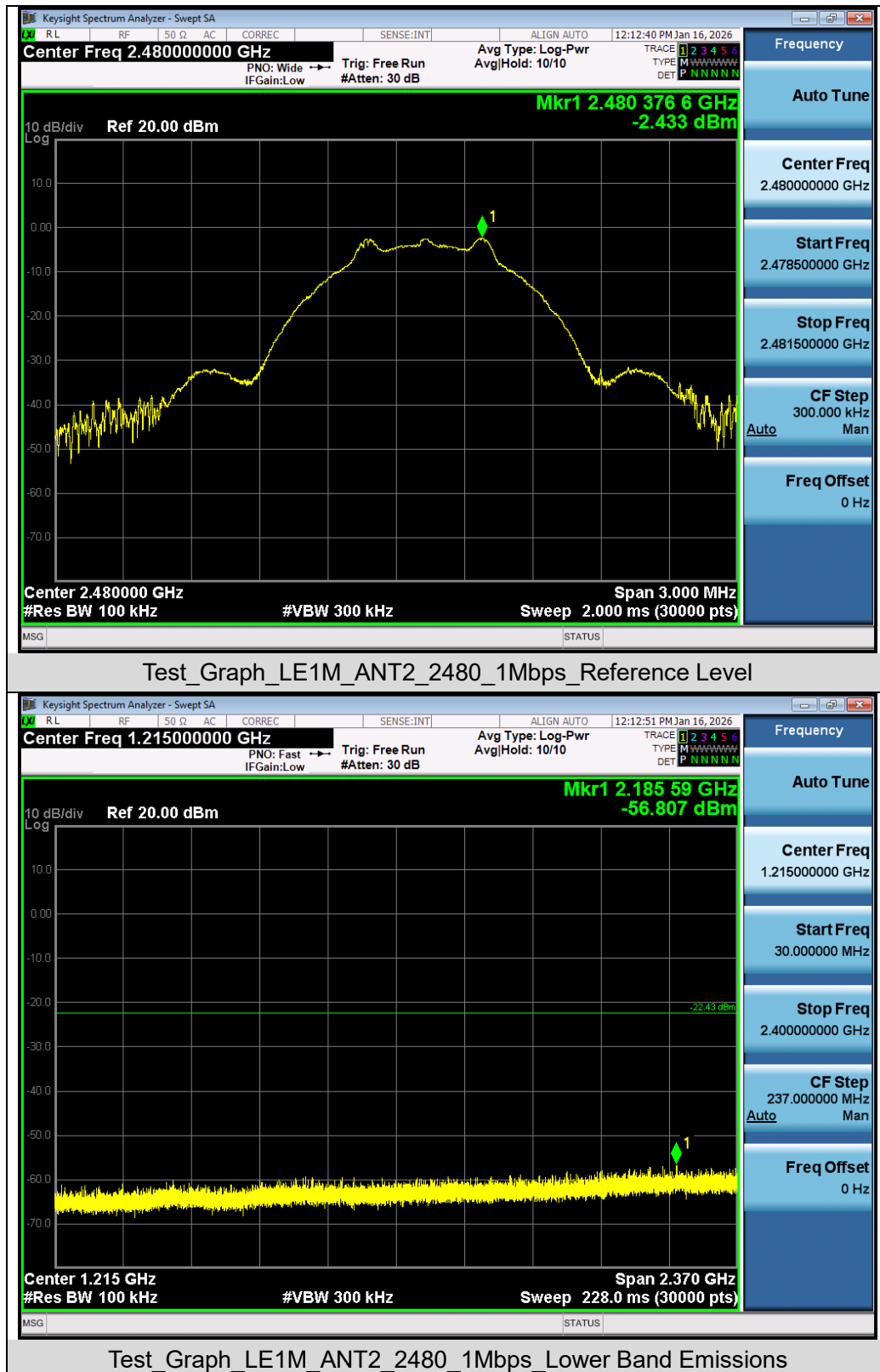


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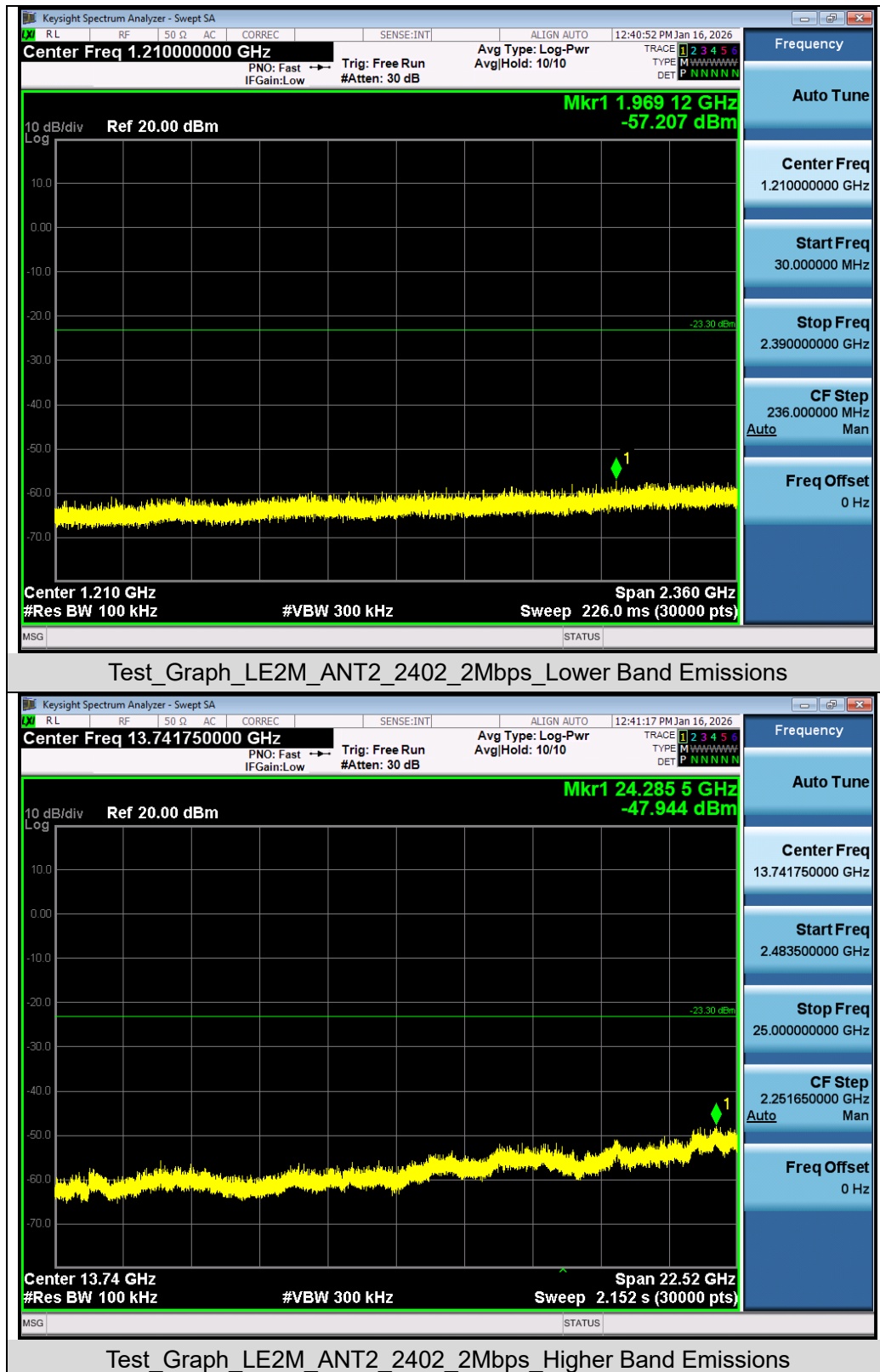
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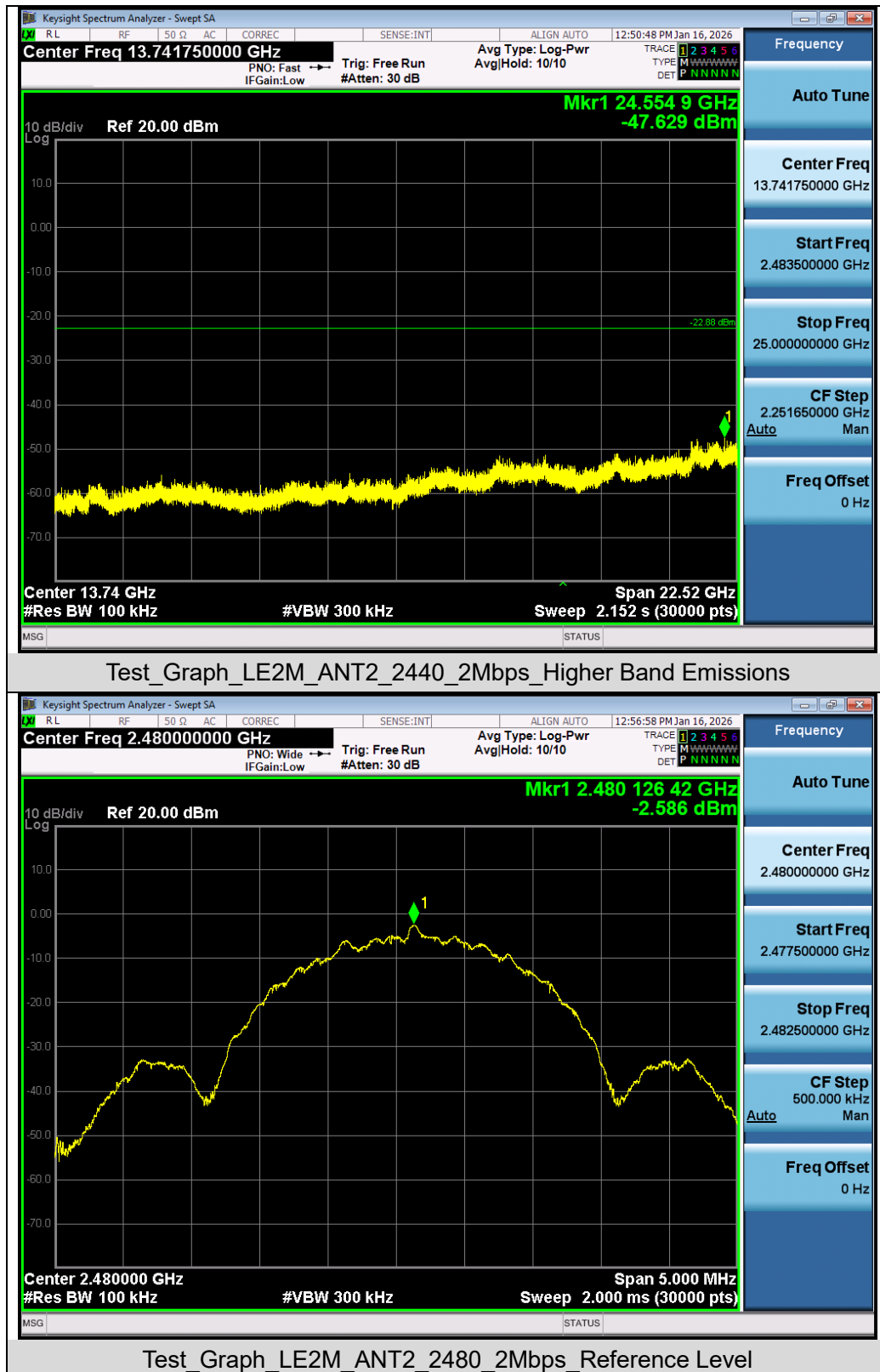


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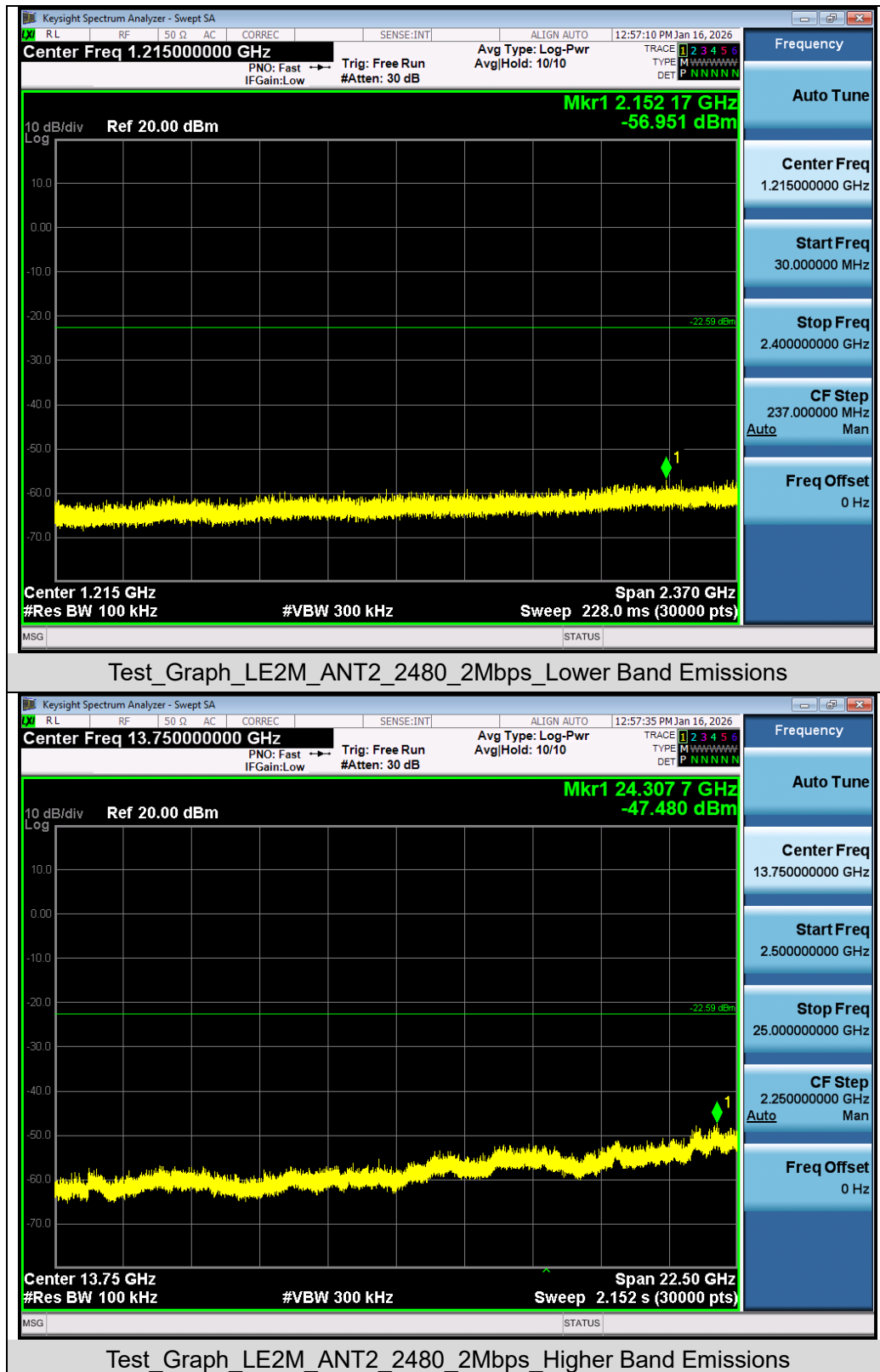
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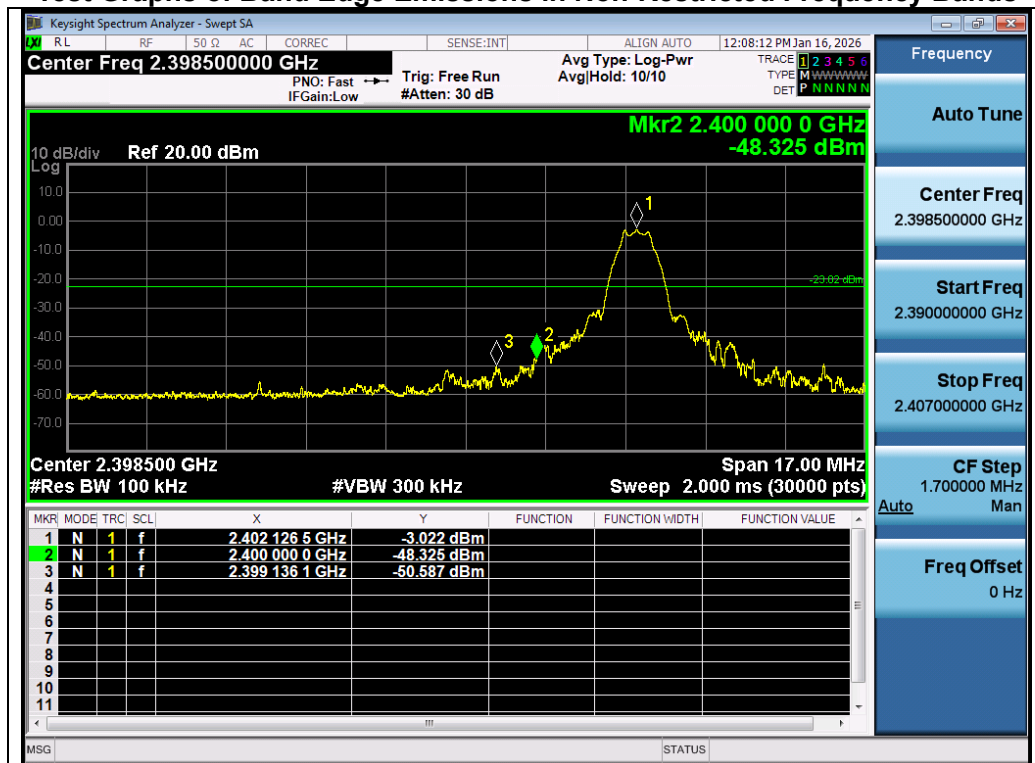
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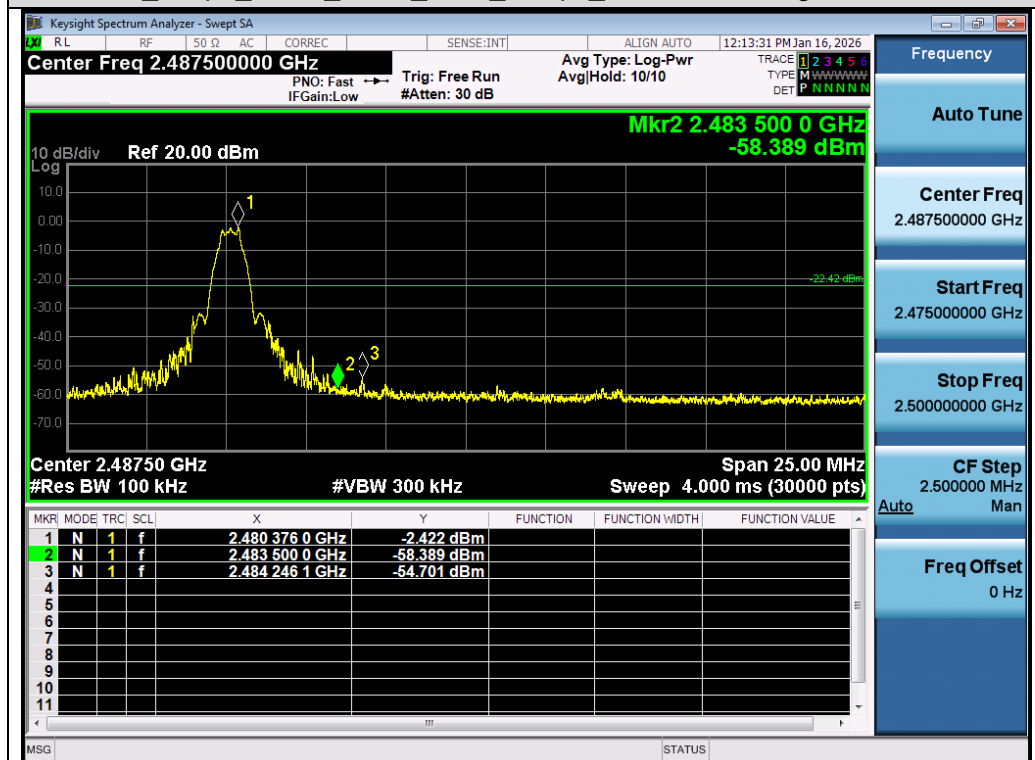
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Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

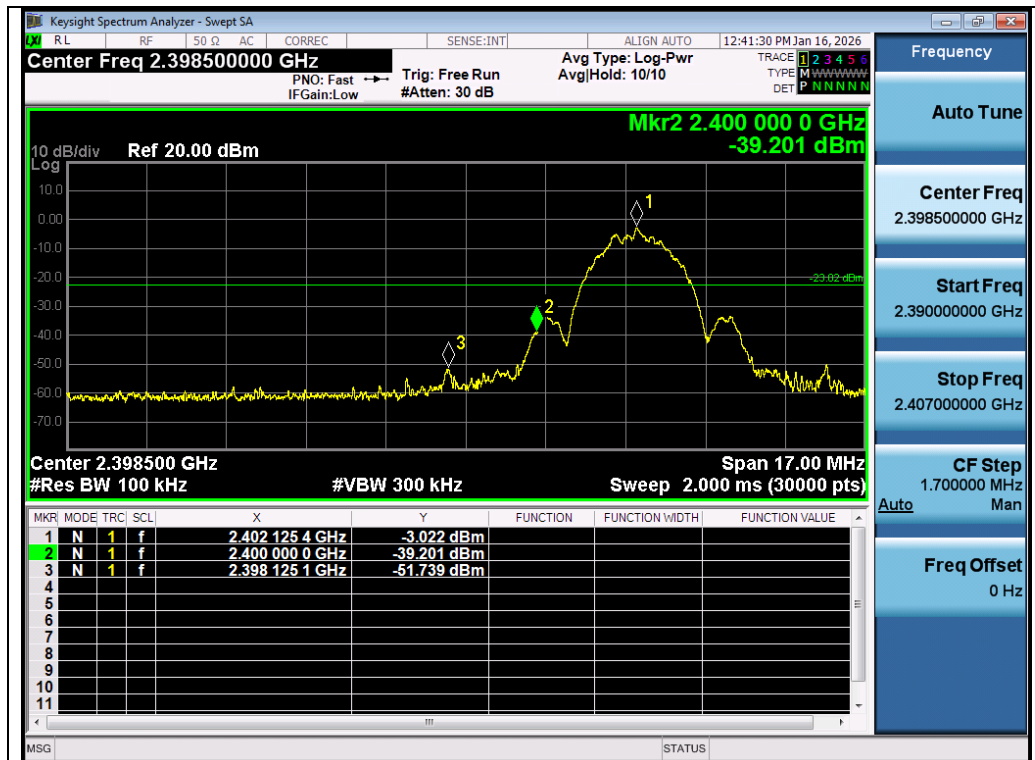


Test_Graph_LE1M_ANT2_2402_1Mbps_Lower Band Edge Emissions

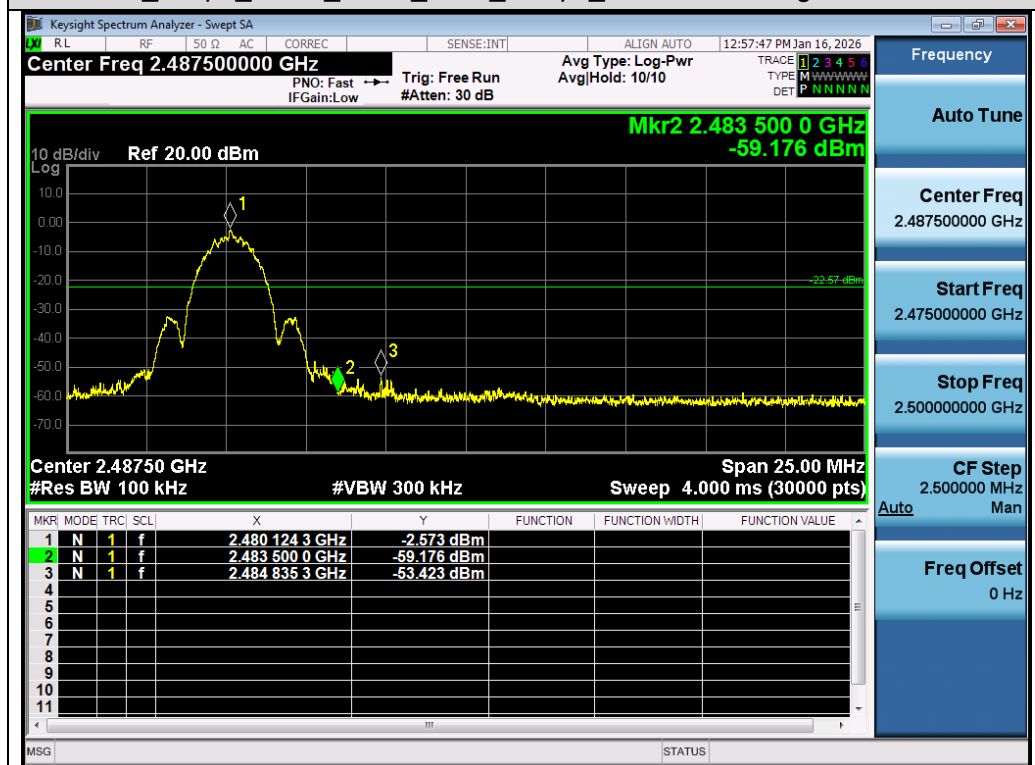


Test_Graph_LE1M_ANT2_2480_1Mbps_Higher Band Edge Emissions

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Test_Graph_LE2M_ANT2_2402_2Mbps_Lower Band Edge Emissions



Test_Graph_LE2M_ANT2_2480_2Mbps_Higher Band Edge Emissions

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11. Radiated Spurious Emission

11.1 Measurement Limit

- FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP

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- **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

- **Peak Measurements above 1GHz**

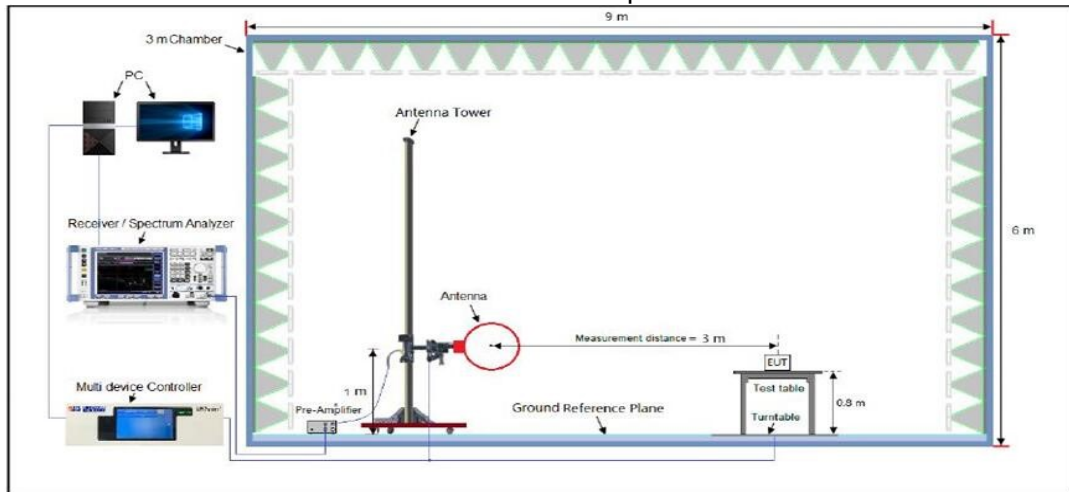
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

- **Average Measurements above 1GHz**

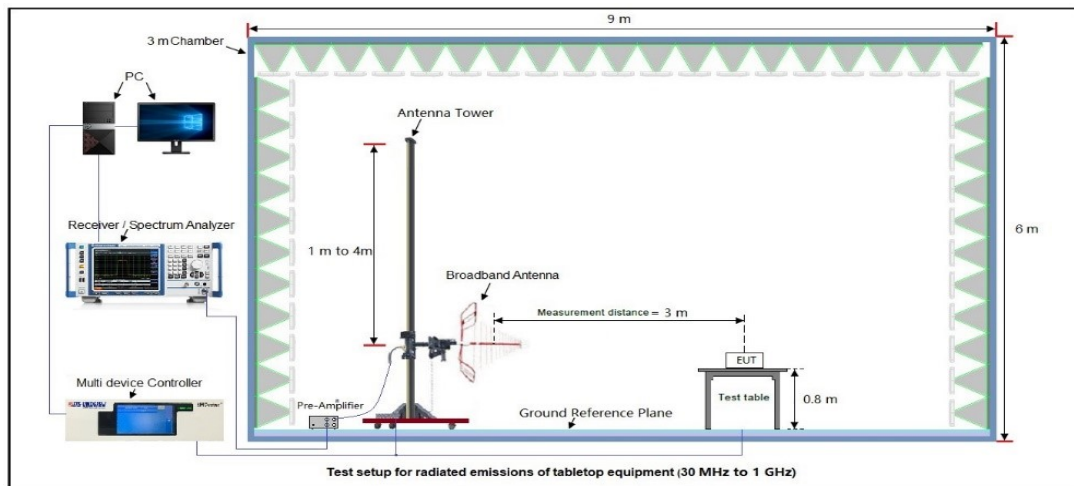
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq [3 \times \text{RBW}]$
4. Detector = Power averaging (rms)
5. Averaging type = power (i.e., rms)
6. Sweep time = auto
7. Perform a trace average of at least 100 traces.
8. The applicable correction factor is $[10 \cdot \log(1 / D)]$, where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

11.3 Measurement Setup (Block Diagram of Configuration)

Radiated Emission Test Setup 9kHz-30MHz

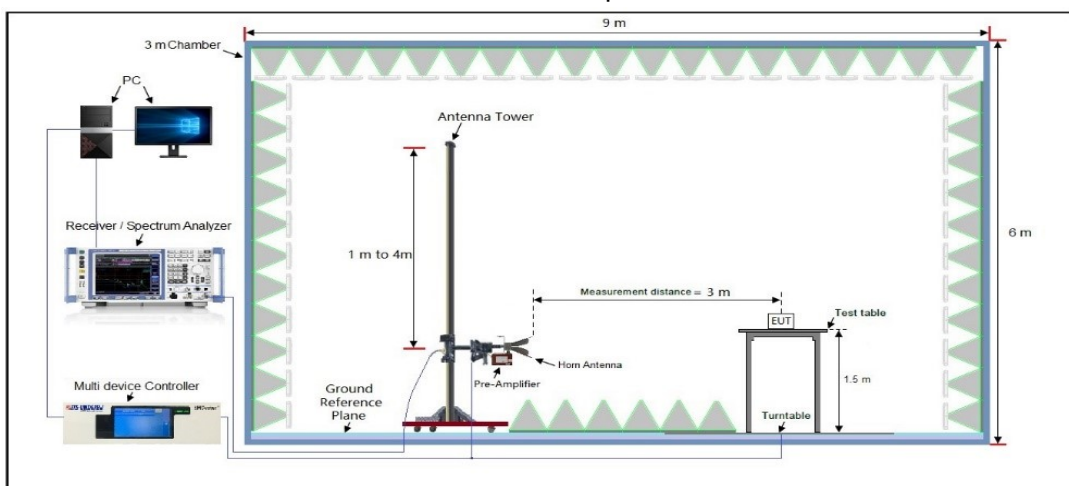


Radiated Emission Test Setup 30MHz-1000MHz



Test setup for radiated emissions of tabletop equipment (30 MHz to 1 GHz)

Radiated Emission Test Setup Above 1000MHz



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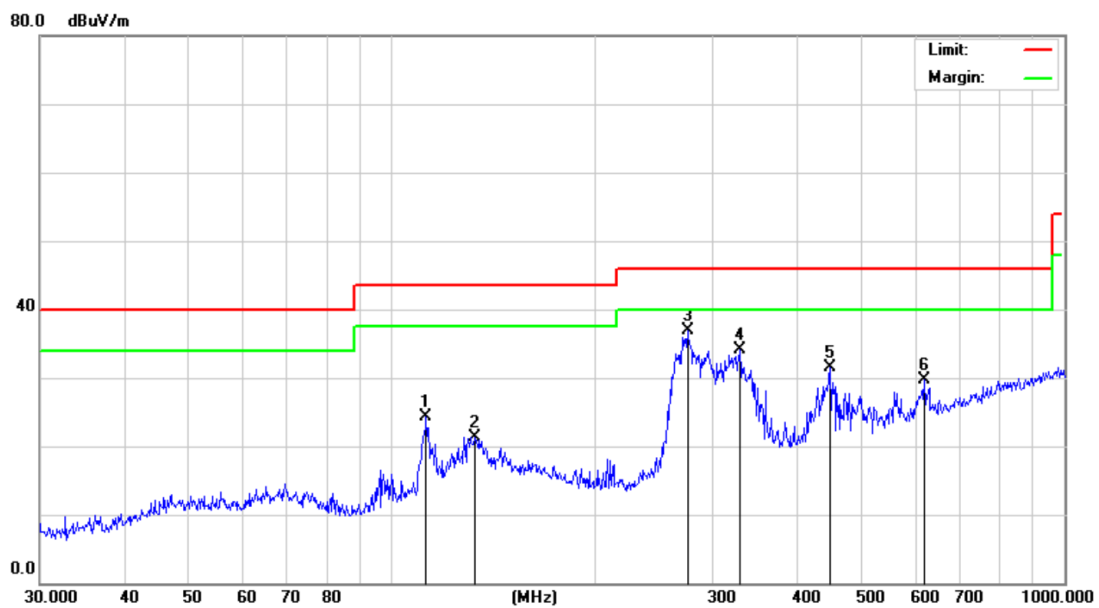
11.4 Measurement Result

Radiated Emission Below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Radiated Emission Test Results at 30MHz-1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Horizontal

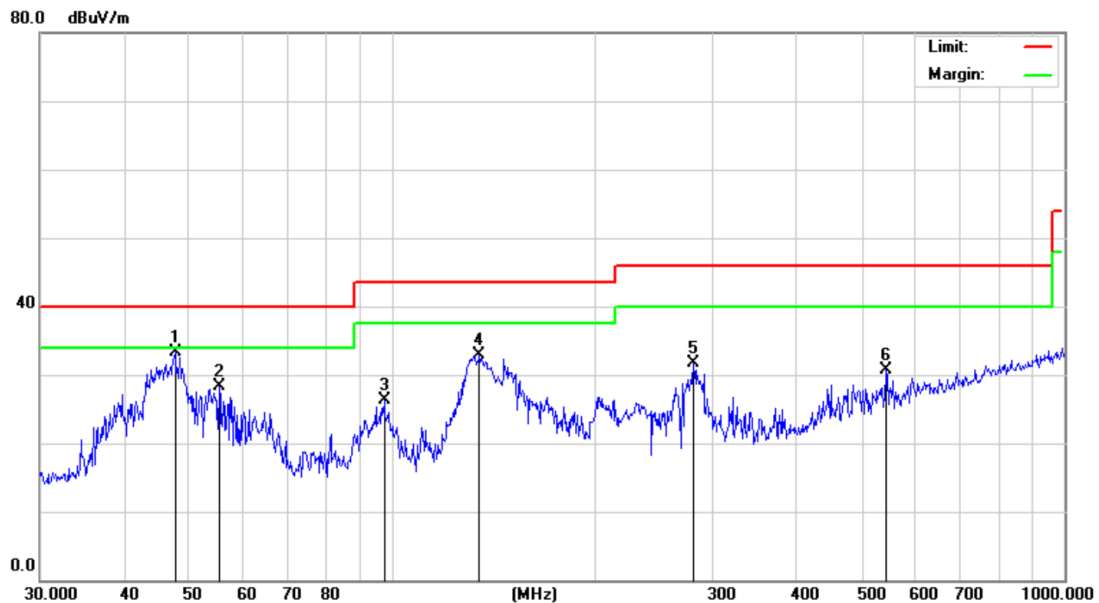


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		112.5244	48.91	-24.54	24.37	43.50	-19.13	peak
2		133.1511	43.20	-21.89	21.31	43.50	-22.19	peak
3	*	275.1570	57.04	-20.18	36.86	46.00	-9.14	peak
4		329.0390	52.87	-18.70	34.17	46.00	-11.83	peak
5		447.9822	49.12	-17.64	31.48	46.00	-14.52	peak
6		618.5369	43.22	-13.51	29.71	46.00	-16.29	peak

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Radiated Emission Test Results at 30MHz-1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	47.6586	54.67	-21.27	33.40	40.00	-6.60	peak
2		55.4147	49.54	-21.27	28.27	40.00	-11.73	peak
3		97.4560	51.80	-25.49	26.31	43.50	-17.19	peak
4		135.0319	53.71	-20.83	32.88	43.50	-10.62	peak
5		281.0075	50.81	-19.18	31.63	46.00	-14.37	peak
6		543.2742	44.18	-13.43	30.75	46.00	-15.25	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Pre-amplifier, Over=Measurement-Limit.

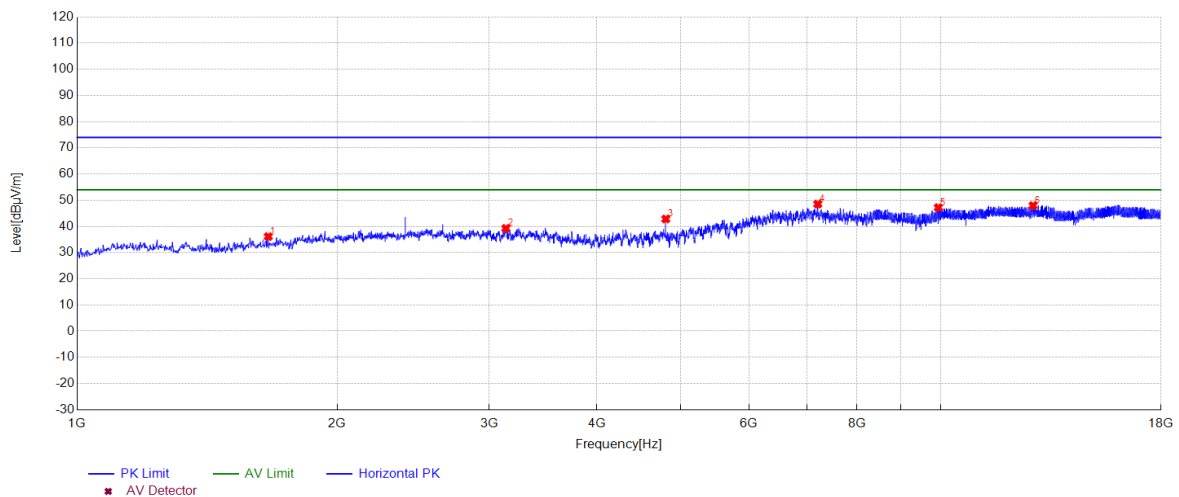
2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.

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Radiated Emissions Test Results for Above 1 GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 1	Antenna Polarity	Horizontal



Suspected Data List

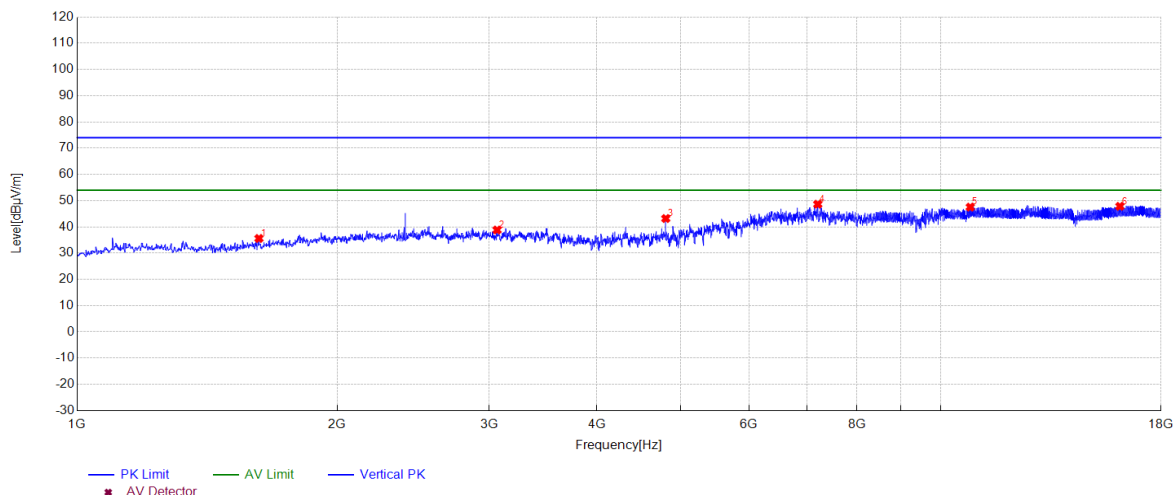
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.766477	36.12	-16.51	54.00	17.88	150	10	Horizontal
2	3137.113711	39.25	-10.99	54.00	14.75	150	220	Horizontal
3	4804.980498	42.85	-8.83	54.00	11.15	150	50	Horizontal
4	7207.320732	48.52	-2.83	54.00	5.48	150	230	Horizontal
5	9939.493949	47.19	1.27	54.00	6.81	150	250	Horizontal
6	12795.779578	47.96	3.41	54.00	6.04	150	250	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 1	Antenna Polarity	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1623.962396	35.59	-16.83	54.00	18.41	150	330	Vertical
2	3064.006401	38.82	-11.08	54.00	15.18	150	340	Vertical
3	4804.980498	43.17	-8.83	54.00	10.83	150	100	Vertical
4	7207.320732	48.63	-2.83	54.00	5.37	150	240	Vertical
5	10821.882188	47.54	3.75	54.00	6.46	150	160	Vertical
6	16128.112811	47.83	3.93	54.00	6.17	150	150	Vertical

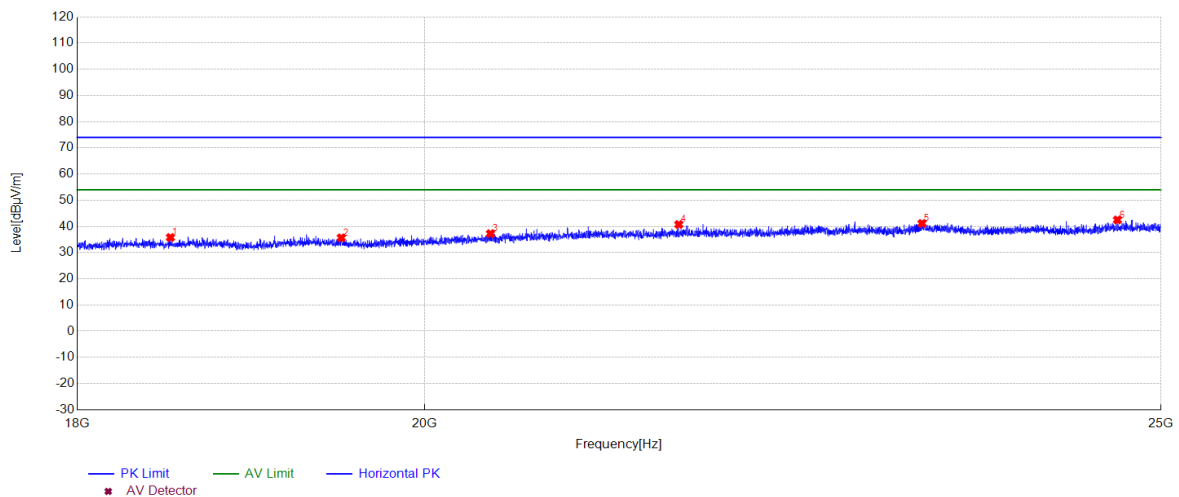
RESULT: PASS

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Radiated Emissions Test Results for Above 1 GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 1	Antenna Polarity	Horizontal



Suspected Data List

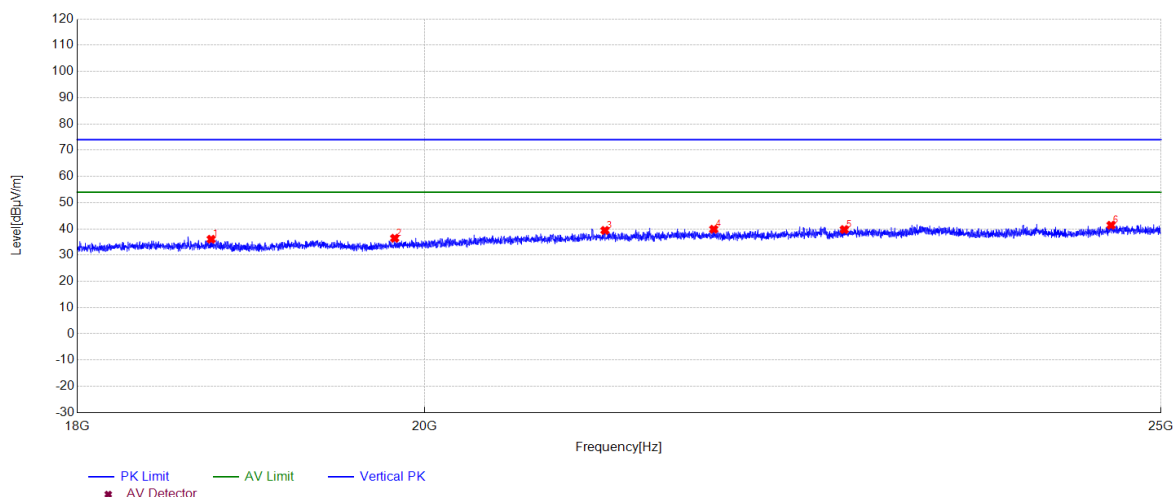
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18516.073725	35.78	-7.28	54.00	18.22	150	270	Horizontal
2	19500.214316	35.65	-7.03	54.00	18.35	150	340	Horizontal
3	20402.343192	37.24	-6.43	54.00	16.76	150	250	Horizontal
4	21600.514359	40.73	-4.89	54.00	13.27	150	80	Horizontal
5	23252.750393	41.15	-3.20	54.00	12.85	150	70	Horizontal
6	24671.953136	42.49	-3.01	54.00	11.51	150	270	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 1	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18746.106587	36.04	-7.05	54.00	17.96	150	50	Vertical
2	19818.259751	36.42	-7.03	54.00	17.58	150	0	Vertical
3	21122.446064	39.41	-5.38	54.00	14.59	150	160	Vertical
4	21830.547221	39.86	-4.66	54.00	14.14	150	20	Vertical
5	22711.673096	39.74	-3.65	54.00	14.26	150	60	Vertical
6	24623.946278	41.38	-3.05	54.00	12.62	150	190	Vertical

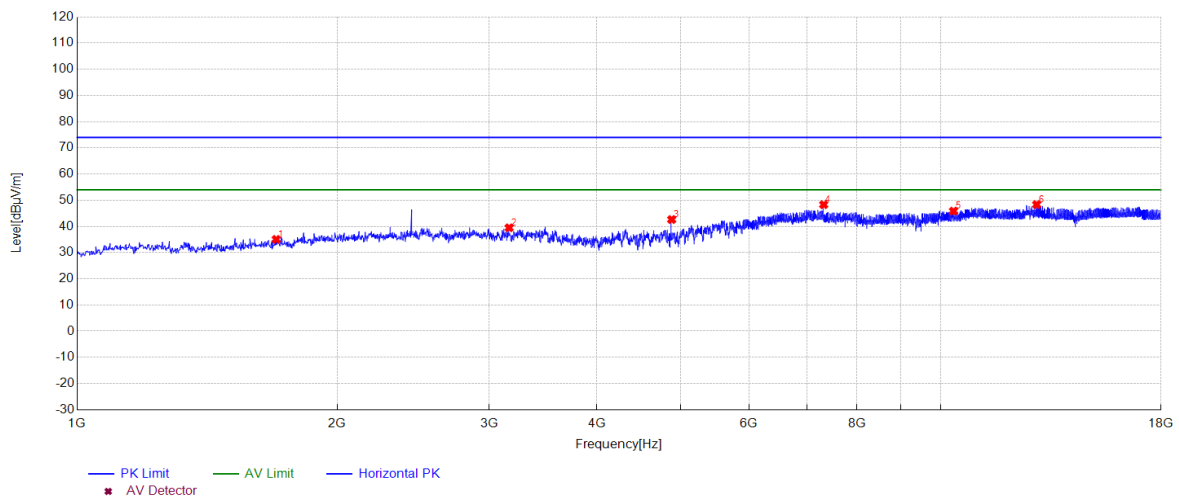
RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 2	Antenna Polarity	Horizontal



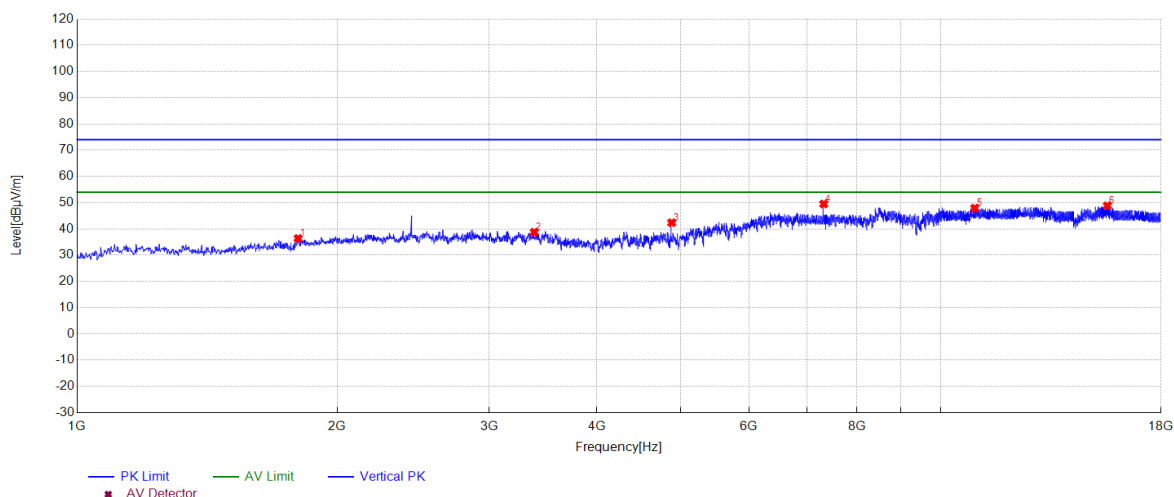
Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1700.470047	35.04	-16.22	54.00	18.96	150	240	Horizontal
2	3164.316432	39.47	-10.95	54.00	14.53	150	70	Horizontal
3	4881.488149	42.63	-8.76	54.00	11.37	150	250	Horizontal
4	7321.232123	48.31	-2.98	54.00	5.69	150	250	Horizontal
5	10349.234924	45.83	2.05	54.00	8.17	150	280	Horizontal
6	12919.891989	48.34	3.74	54.00	5.66	150	50	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 2	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1802.480248	36.35	-15.39	54.00	17.65	150	170	Vertical
2	3383.638364	38.72	-10.66	54.00	15.28	150	240	Vertical
3	4881.488149	42.35	-8.76	54.00	11.65	150	290	Vertical
4	7321.232123	49.48	-2.98	54.00	4.52	150	40	Vertical
5	10952.79528	47.90	4.36	54.00	6.10	150	240	Vertical
6	15597.659766	48.84	3.45	54.00	5.16	150	340	Vertical

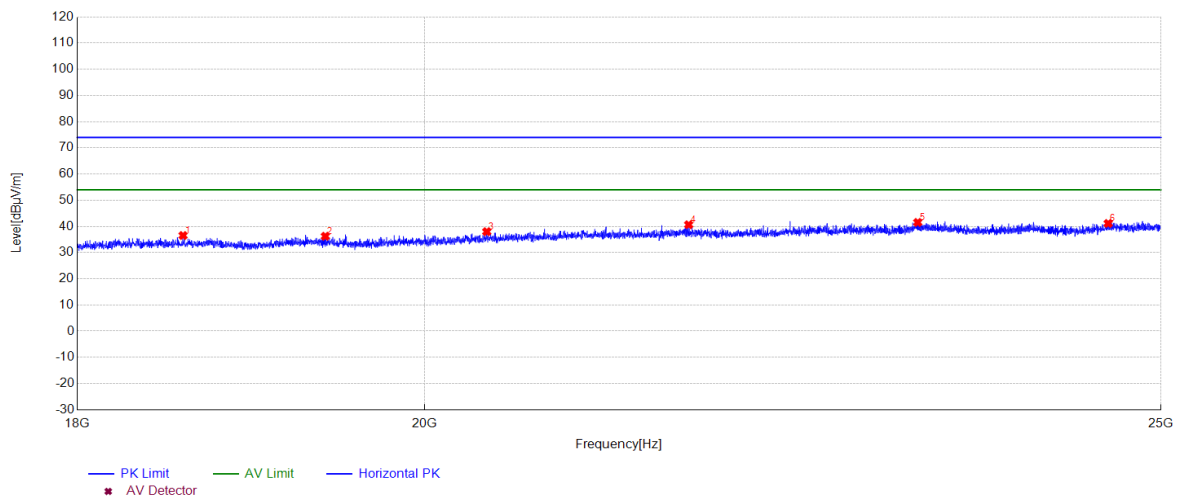
RESULT: Pass

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adiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 2	Antenna Polarity	Horizontal



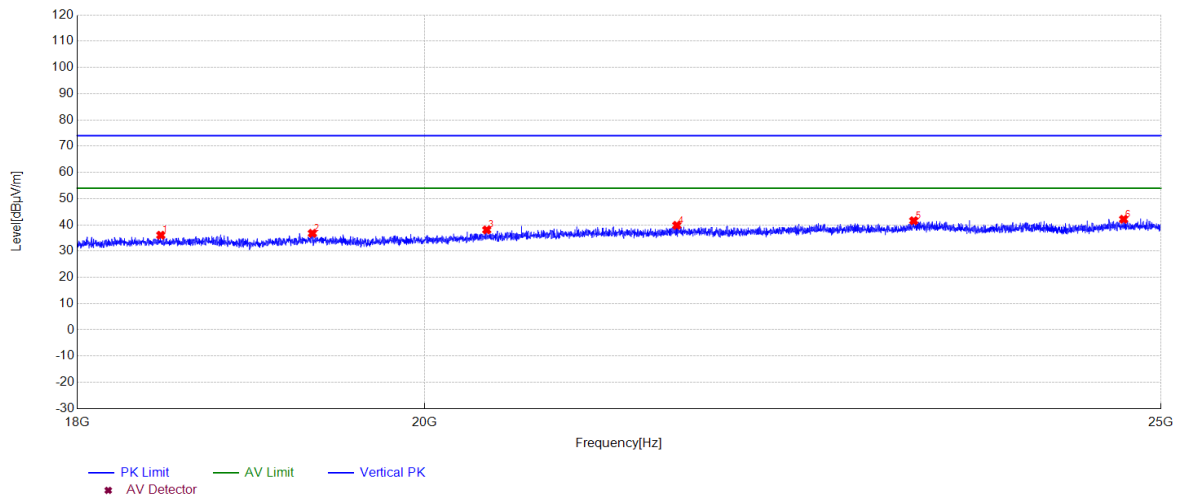
Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18587.083869	36.52	-7.24	54.00	17.48	150	90	Horizontal
2	19406.200886	36.25	-7.03	54.00	17.75	150	30	Horizontal
3	20379.339906	37.99	-6.47	54.00	16.01	150	270	Horizontal
4	21665.523646	40.64	-4.83	54.00	13.36	150	190	Horizontal
5	23222.746107	41.53	-3.19	54.00	12.47	150	250	Horizontal
6	24602.943278	41.13	-3.02	54.00	12.87	150	250	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 2	Antenna Polarity	Vertical



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18462.066009	36.06	-7.21	54.00	17.94	150	70	Vertical
2	19330.190027	36.77	-6.95	54.00	17.23	150	30	Vertical
3	20379.339906	38.08	-6.47	54.00	15.92	150	150	Vertical
4	21587.512502	39.81	-4.91	54.00	14.19	150	330	Vertical
5	23194.742106	41.57	-3.29	54.00	12.43	150	50	Vertical
6	24717.959709	42.14	-3.02	54.00	11.86	150	240	Vertical

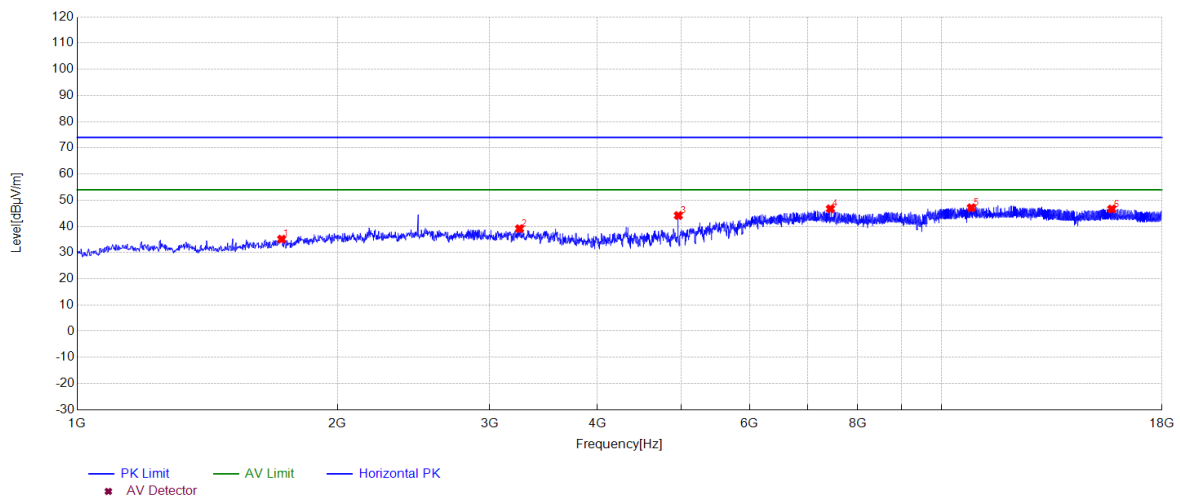
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Horizontal



Suspected Data List

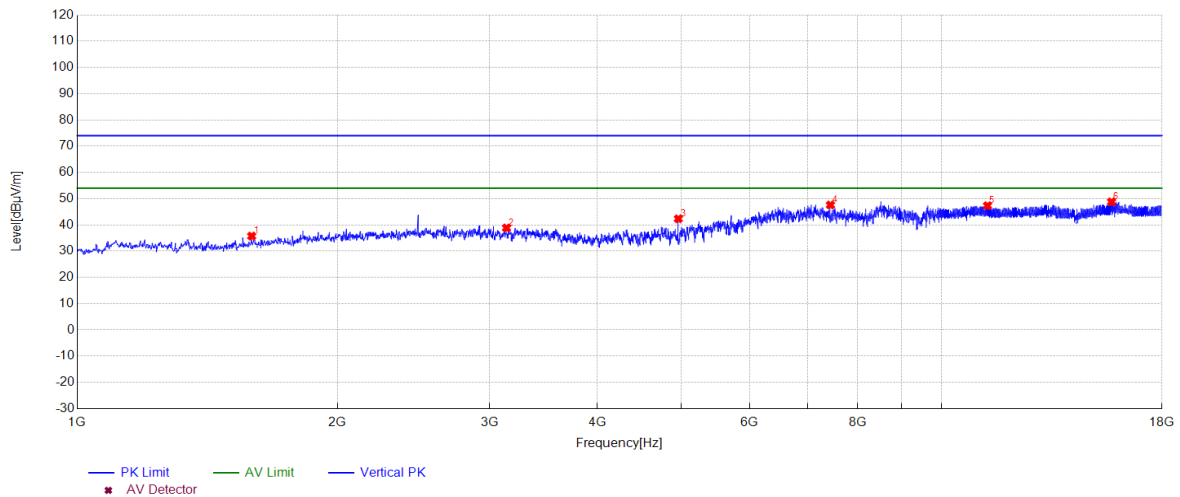
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1724.272427	35.13	-16.02	54.00	18.87	150	20	Horizontal
2	3249.324933	39.13	-10.84	54.00	14.87	150	330	Horizontal
3	4961.39614	44.16	-8.68	54.00	9.84	150	260	Horizontal
4	7440.244024	46.73	-3.15	54.00	7.27	150	280	Horizontal
5	10832.083208	47.11	3.80	54.00	6.89	150	270	Horizontal
6	15745.574558	46.63	3.62	54.00	7.37	150	20	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1591.659166	35.74	-17.09	54.00	18.26	150	230	Vertical
2	3138.813881	38.84	-10.99	54.00	15.16	150	10	Vertical
3	4961.39614	42.33	-8.68	54.00	11.67	150	70	Vertical
4	7440.244024	47.59	-3.15	54.00	6.41	150	130	Vertical
5	11306.430643	47.31	3.35	54.00	6.69	150	30	Vertical
6	15735.373537	48.78	3.61	54.00	5.22	150	230	Vertical

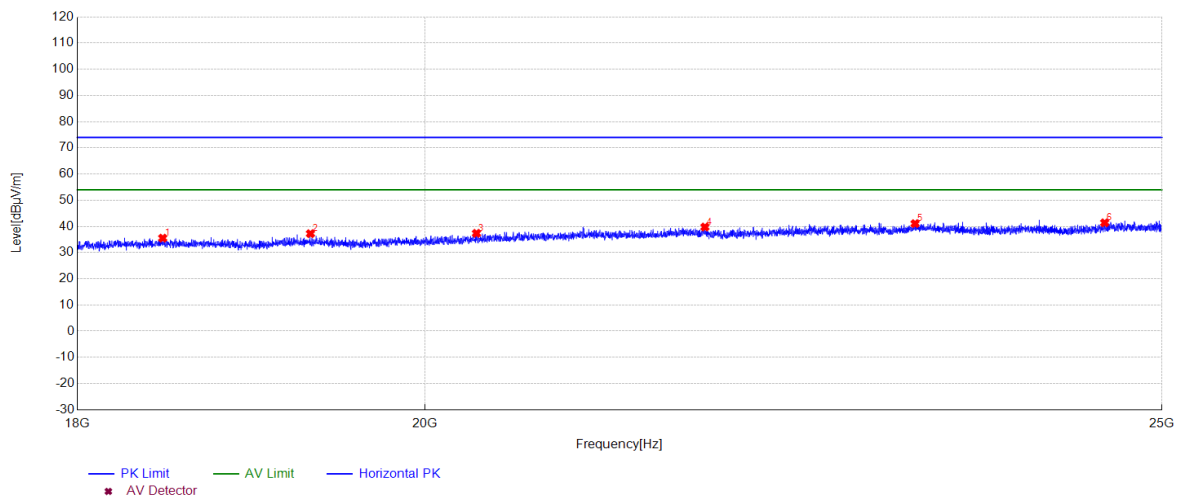
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Horizontal



Suspected Data List

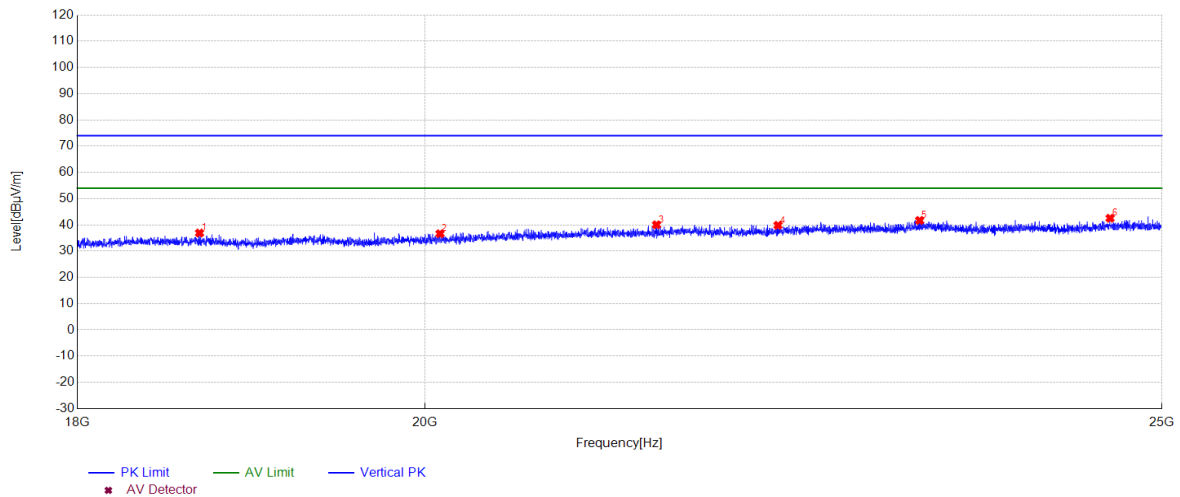
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18472.067438	35.52	-7.30	54.00	18.48	150	100	Horizontal
2	19317.18817	37.23	-7.01	54.00	16.77	150	230	Horizontal
3	20313.330476	37.36	-6.57	54.00	16.64	150	100	Horizontal
4	21768.538363	39.76	-4.73	54.00	14.24	150	190	Horizontal
5	23198.742678	41.06	-3.20	54.00	12.94	150	130	Horizontal
6	24569.938563	41.38	-3.04	54.00	12.62	150	300	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 3	Antenna Polarity	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18679.097014	36.89	-7.09	54.00	17.11	150	30	Vertical
2	20090.298614	36.63	-6.92	54.00	17.37	150	170	Vertical
3	21451.49307	40.02	-5.04	54.00	13.98	150	120	Vertical
4	22255.607944	39.83	-4.18	54.00	14.17	150	70	Vertical
5	23230.74725	41.69	-3.30	54.00	12.31	150	90	Vertical
6	24609.944278	42.53	-3.06	54.00	11.47	150	110	Vertical

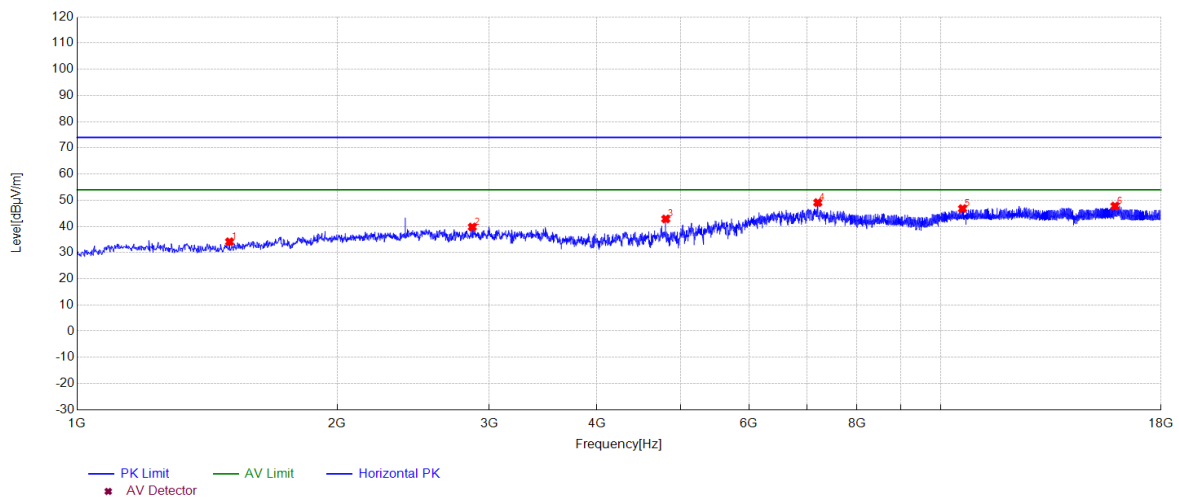
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 4	Antenna Polarity	Horizontal



Suspected Data List

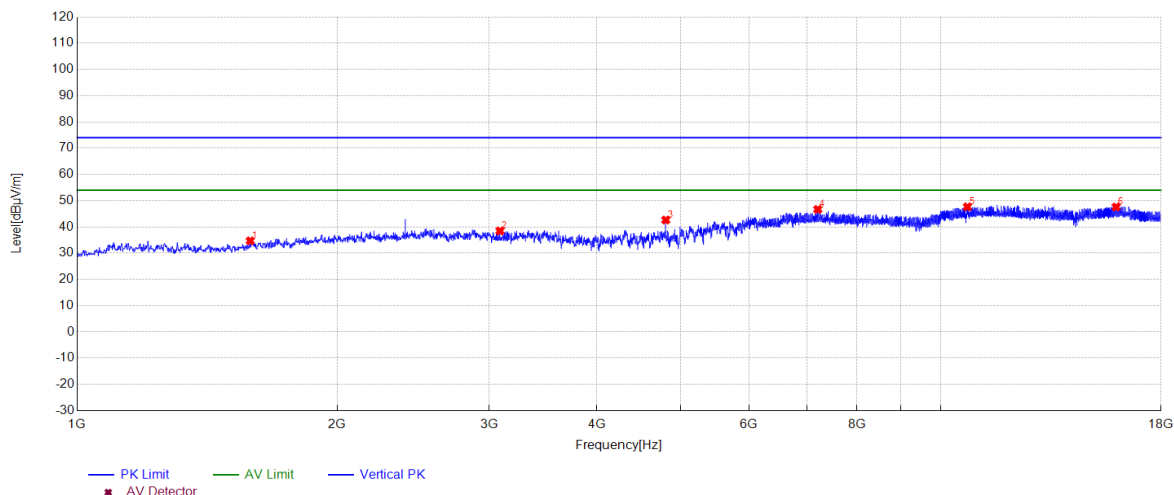
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1501.550155	34.13	-17.82	54.00	19.87	150	90	Horizontal
2	2868.486849	39.77	-11.28	54.00	14.23	150	340	Horizontal
3	4804.980498	42.85	-8.83	54.00	11.15	150	60	Horizontal
4	7207.320732	49.09	-2.83	54.00	4.91	150	350	Horizontal
5	10602.560256	46.80	2.71	54.00	7.20	150	30	Horizontal
6	15918.991899	47.77	3.83	54.00	6.23	150	50	Horizontal

RESULT: PASS

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EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 4	Antenna Polarity	Vertical



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.558656	34.68	-17.14	54.00	19.32	150	70	Vertical
2	3087.808781	38.46	-11.06	54.00	15.54	150	270	Vertical
3	4804.980498	42.62	-8.83	54.00	11.38	150	120	Vertical
4	7207.320732	46.66	-2.83	54.00	7.34	150	0	Vertical
5	10740.274027	47.63	3.36	54.00	6.37	150	300	Vertical
6	15969.997	47.58	3.89	54.00	6.42	150	80	Vertical

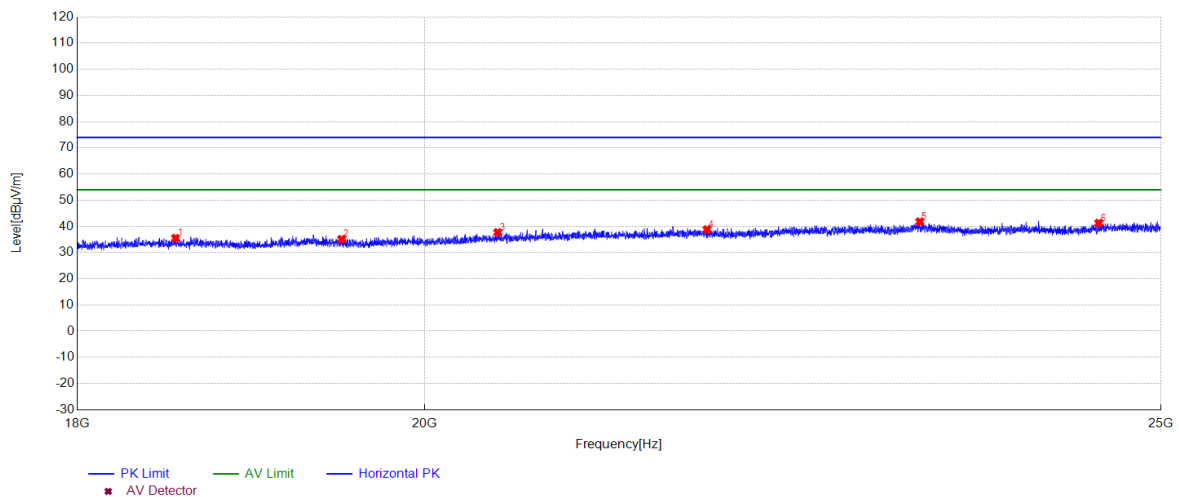
RESULT: Pass

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Radiated Emissions Test Results for Above 1GHz

EUT Name	UNIVERSAL DIGITAL TIMER III	Model Name	MFA-15095
Temperature	22.3 °C	Relative Humidity	59.3 %
Pressure	960hPa	Test Voltage	DC 6V
Test Mode	Mode 4	Antenna Polarity	Horizontal



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18545.077868	35.51	-7.27	54.00	18.49	150	70	Horizontal
2	19502.214602	35.12	-7.03	54.00	18.88	150	280	Horizontal
3	20447.349621	37.70	-6.36	54.00	16.30	150	110	Horizontal
4	21786.540934	38.81	-4.71	54.00	15.19	150	240	Horizontal
5	23237.74825	41.79	-3.19	54.00	12.21	150	40	Horizontal
6	24531.933133	41.28	-3.04	54.00	12.72	150	360	Horizontal

RESULT: PASS

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