

Test Report

No.: AJT230703087E-1

Applicant Name : PENGCHUANGDA (SHENZHEN) INDUSTRY CO., LTD.
Applicant Address : NO.14-1 TONGQING ROAD, TONGXIN COMMUNITY, BAOLONG STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA
Manufacturer : PENGCHUANGDA (SHENZHEN) INDUSTRY CO., LTD.
Manufacturer Address : NO.14-1 TONGQING ROAD, TONGXIN COMMUNITY, BAOLONG STREET, LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : SMART BIRD FEEDER
Model No. : PCD001
Additional Model : PCD002, PCD003, PCD004, PCD005, PCD006, PCD007, PCD008, PCD009, PCD010, PCD011, PCD012, PCD013, PCD014, PCD015, PCD016, PCD017, PCD018, PCD019, PCD020
Sample Received Date : 03 July, 2023
Testing Completed Date : 20 July, 2023

Tests conducted: For compliance with application, refer to attached page(s) for details.

Assess standard used:	Conclusion
FCC CFR47 Part 15, Subpart C, Section 15.247	PASS

Tested by:

Glory

Reviewed by:

Fly Liang

Approved by:

Position: Technical Supervisor

Date: 2023-07-21



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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

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1 Test Standards

The tests were performed according to following standards:
FCC Part 15, Subpart C, Section 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
ANSI C63,10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019: GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUMSYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247OF THE FCC RULES

2 Summary

2.1 General Remarks

Date of receipt of test sample	03 July, 2023
Testing commenced on	03 July, 2023 ---- 20 July, 2023
Testing concluded on	20 July, 2023

3 General Information

3.1 General Description of E.U.T.

Product:	SMART BIRD FEEDER
Model(s):	PCD001
FCC ID:	2A2QS-PCD002
Wi-Fi Specification:	2.4G-802.11b/g/n HT20
Highest frequency (Exclude Radio):	24MHz
Storage Location:	Internal storage
NOTE: 1.The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer. 2. Product models same are identical in the PCB layout, electrical circuit design and functions, The differences are appearance color, exterior structure, and model name for commercial purpose.	

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3.2 Details of E.U.T.

Operation Frequency:	Wi-Fi: 802.11b/g/n HT20: 2412~2462MHz
Max. RF output power:	Wi-Fi (2.4G): 5.62dBm
Type of Modulation:	Wi-Fi: DSSS, OFDM
Antenna installation:	Wi-Fi: internal permanent antenna
Antenna Gain:	Wi-Fi (2.4G): 4.6dBi
Ratings:	DC 3.7V (Battery*2) DC 5V from adapter Input AC 120V 60Hz
NOTE: 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual. The laboratory is not responsible for the accuracy of the information provided by manufacturer.	

3.3 Channel List

WIFI

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	12	-

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3.4 Test mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Conducted Output Power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
6dB Bandwidth	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
Band Edge	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
Transmitter Spurious Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

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4 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Conducted Output Power	15.247(b)(3), (4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS

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5 Equipment Used during Test

5.1 Equipments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Keysight	N9010A	MY51120099	2023/03/13	2024/03/13
2	JS0806-2 RF Control Unit	Tonscend	JS0806-2	188060124	2022/08/09	2023/08/09
3	Broadband Preamplifier	SCHWARZBECK	BBV 9743B	00067	2023/03/14	2024/03/14
4	Broadband Preamplifier	SCHWARZBECK	BBV 9718B	00002	2023/03/14	2024/03/14
5	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102452	2023/03/13	2024/03/13
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	01127	2023/03/13	2025/03/13
7	Horn Antenna	SCHWARZBECK	BBHA 9120D	01829	2023/03/13	2025/03/13
8	DC Power Supply	MAISEN	MP5030D	2018121557	2022/08/02	2023/08/02
9	Vector Signal Generator	Keysight	N5172B	MY53052255	2023/03/13	2024/03/13
10	Analog Signal Generator	Keysight	N5171B	MY53051692	2023/03/13	2024/03/13
11	Temperature Humidity Chamber	Yiheng	BPS-50CB	191005684	2022/07/28	2023/07/28
12	Temperature and Humidity Indicator	JianDaRenKe	Cos-03	612058	2022/08/02	2023/08/02
13	BAT-EMC Testing (Test Software)	NEXIO	Version: 3.19.1.20	N/A	N/A	N/A
14	JS1120-3 Test System (Test Software)	Tonscend	JS1120-3	Version: 2.5.77.0418	N/A	N/A
15	Active Loop Antenna	HRTY	HR8913A	6933132206023	2022/07/15	2023/07/15

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
Battery Charger	Lite-ON Technology (Chang Zhou) Co., Ltd	A1443	/

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5.3 Measurement Uncertainty

Measurement Uncertainty (Standard: ETSI TR 100 028)	
Conducted Emission (CE)	±2.14dB
Radiated Emission below 1GHz	±4.44dB
Radiated Emission above 1GHz	±5.26dB
RF output power	±1.24dB
Occupied bandwidth	±55.4kHz
Conducted Spurious Emissions test	±0.876dB (10MHz-3.6GHz)
	±1.65dB (3.6GHz-26.5GHz)
Note: 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 %.	

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6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207
Test Method: ANSI C63.10:2013
Test Result: Pass
Frequency Range: 150kHz to 30MHz
Class/Severity: Class B
Limit:

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

6.1 E.U.T. Operation

Operating Environment:

Temperature: 25°C

Humidity: 73%RH

Atmospheric Pressure: 100.5kPa

EUT Operation: The test was performed in TX transmitting mode, the worst data were shown in the report.

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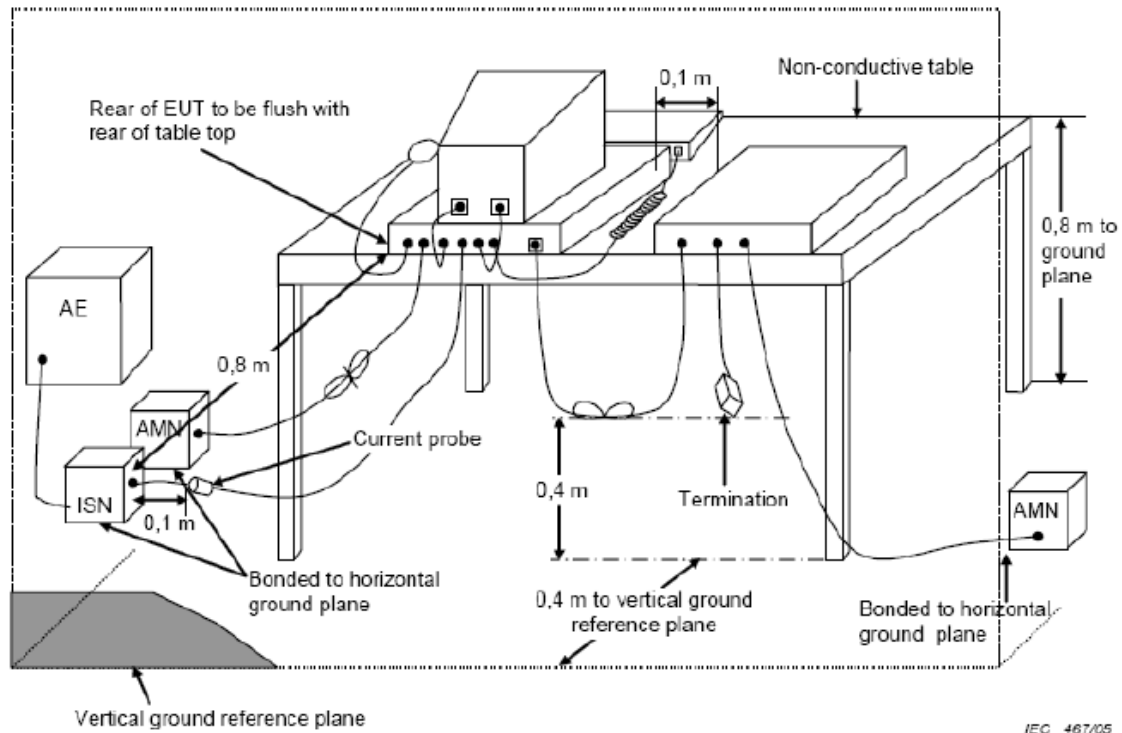
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6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.4 Conducted Emission Test Result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

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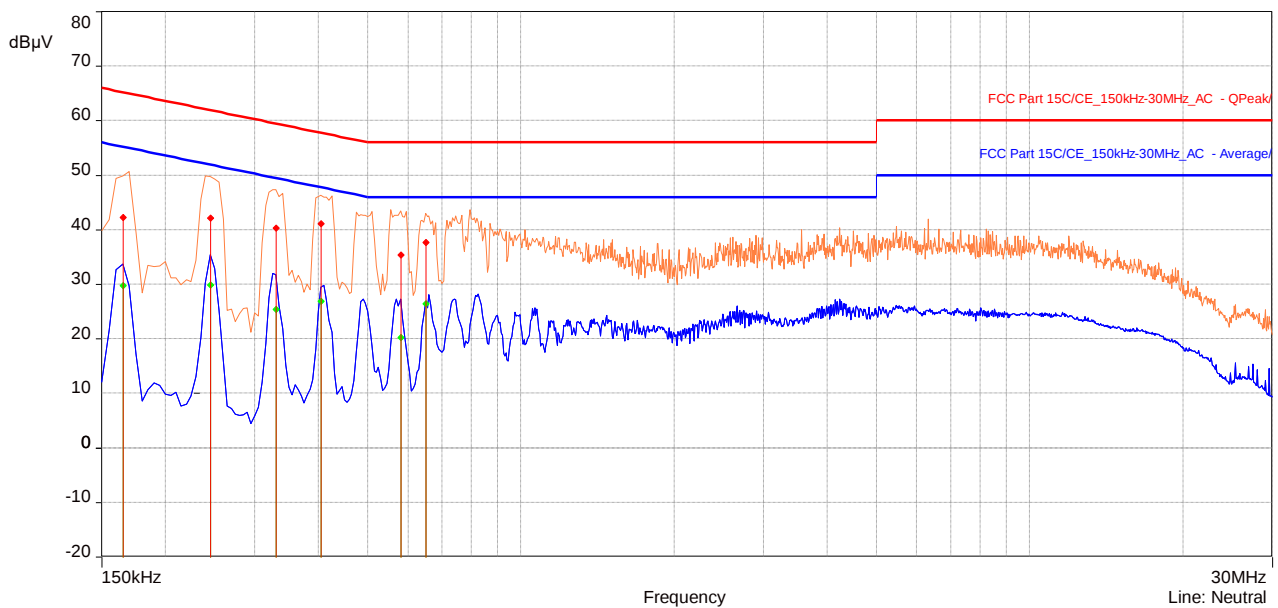
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Test Point	Operation Mode	Result
Neutral	TX mode	Pass

EUT Name	SMART BIRD FEEDER
Operating Condition	DC 5V from adapter Input AC 120V 60Hz
Test Condition	Ambient Temperature: 25°C Humidity: 73%



Frequency (MHz)	Peak (dBμV)	QP (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Pos.
0.165	45.15	42.23	65.21	-22.98	29.77	55.21	-25.44	Neutral
0.245	44.83	42.15	61.92	-19.78	29.85	51.92	-22.07	Neutral
0.33	44.51	40.36	59.45	-19.09	25.46	49.45	-23.99	Neutral
0.405	43.70	41.18	57.75	-16.57	26.96	47.75	-20.79	Neutral
0.58	41.11	35.44	56.00	-20.56	20.24	46.00	-25.76	Neutral
0.65	41.61	37.68	56.00	-18.32	26.43	46.00	-19.57	Neutral

1.QP and Avg are abbreviations of Quasi-Peak and Average

2.Margin = Emission Level - Limit Value

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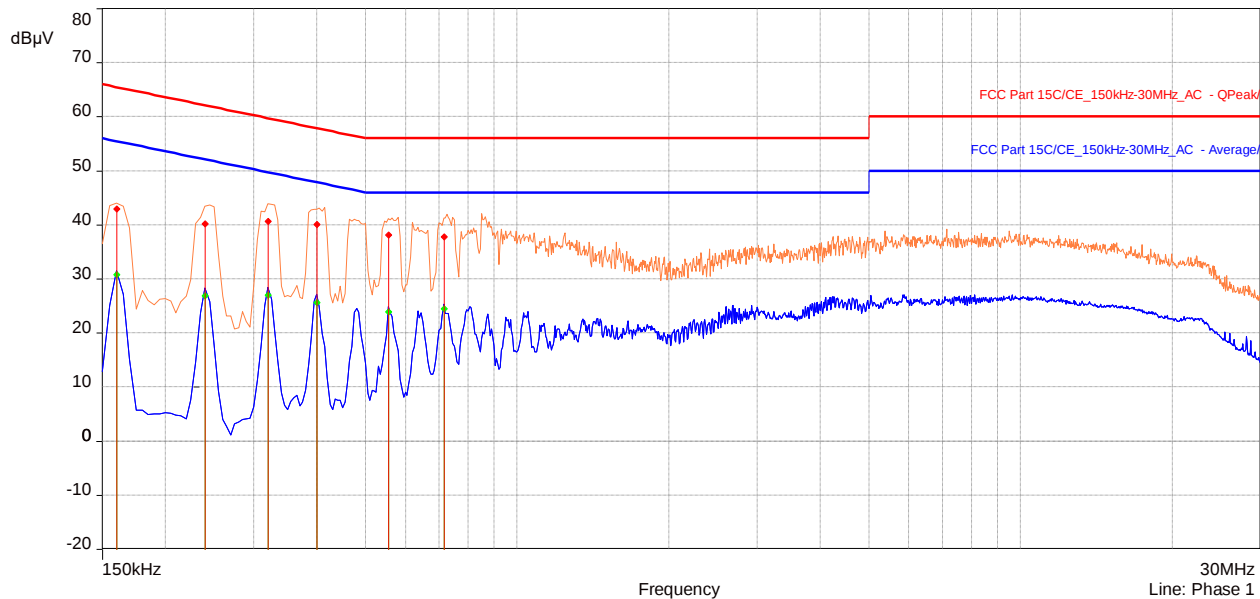
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Test Point	Operation Mode	Result
Phase 1	TX mode	Pass

EUT Name	SMART BIRD FEEDER
Operating Condition	DC 5V from adapter Input AC 120V 60Hz
Test Condition	Ambient Temperature: 25°C Humidity: 73%



Frequency (MHz)	Peak (dBμV)	QP (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Pos.
0.16	44.71	42.97	65.46	-22.49	30.75	55.46	-24.71	Phase 1
0.24	42.86	40.21	62.10	-21.88	26.93	52.10	-25.17	Phase 1
0.32	43.24	40.67	59.71	-19.03	27.06	49.71	-22.65	Phase 1
0.4	42.48	40.10	57.85	-17.75	25.69	47.85	-22.16	Phase 1
0.555	41.27	38.16	56.00	-17.84	23.89	46.00	-22.11	Phase 1
0.715	42.32	37.76	56.00	-18.24	24.52	46.00	-21.48	Phase 1

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2.Margin = Emission Level - Limit Value

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7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013
Test Result: PASS
Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log(2400/F(kHz)) + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log(24000/F(kHz)) + 40
1.705 ~ 30	30	30	100 * 30	20log(30) + 40
30 ~ 88	100	3	100	20log(100)
88 ~ 216	150	3	150	20log(150)
216 ~ 960	200	3	200	20log(200)
Above 960	500	3	500	20log(500)

7.1 EUT Operation

EUT Operation: The test was performed in WIFI link mode, the test data were shown in the report.

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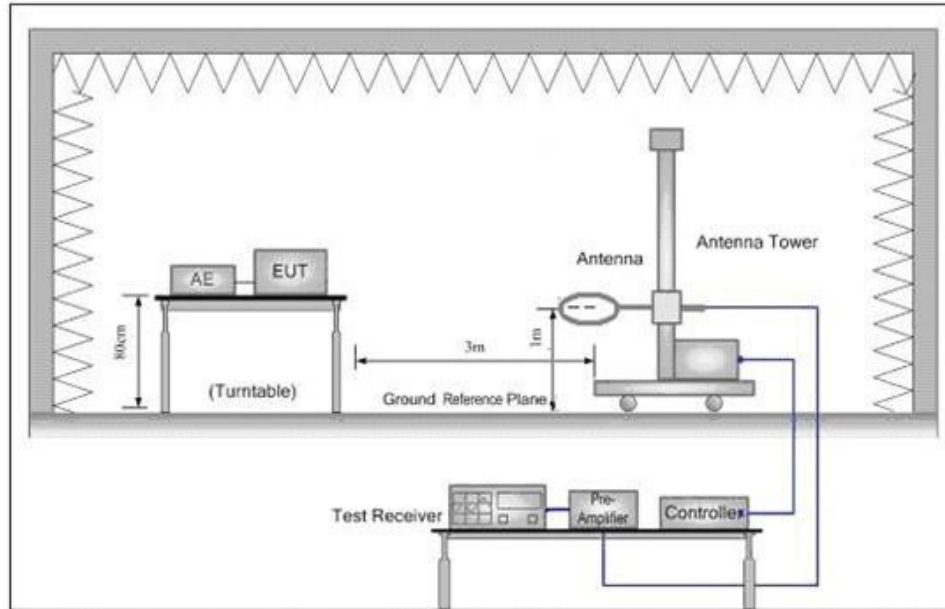
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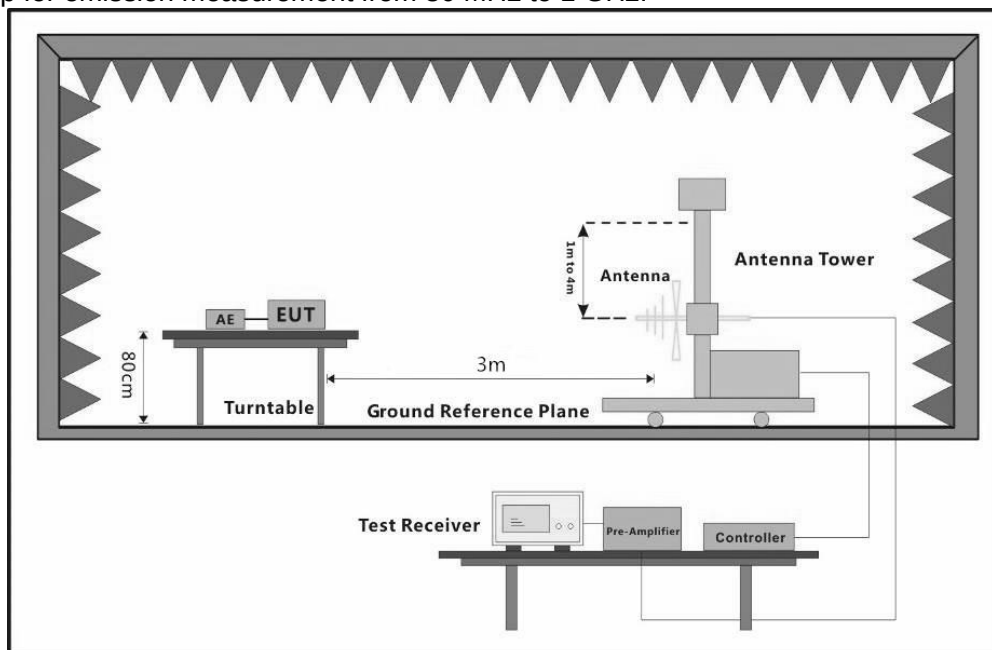
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



1.

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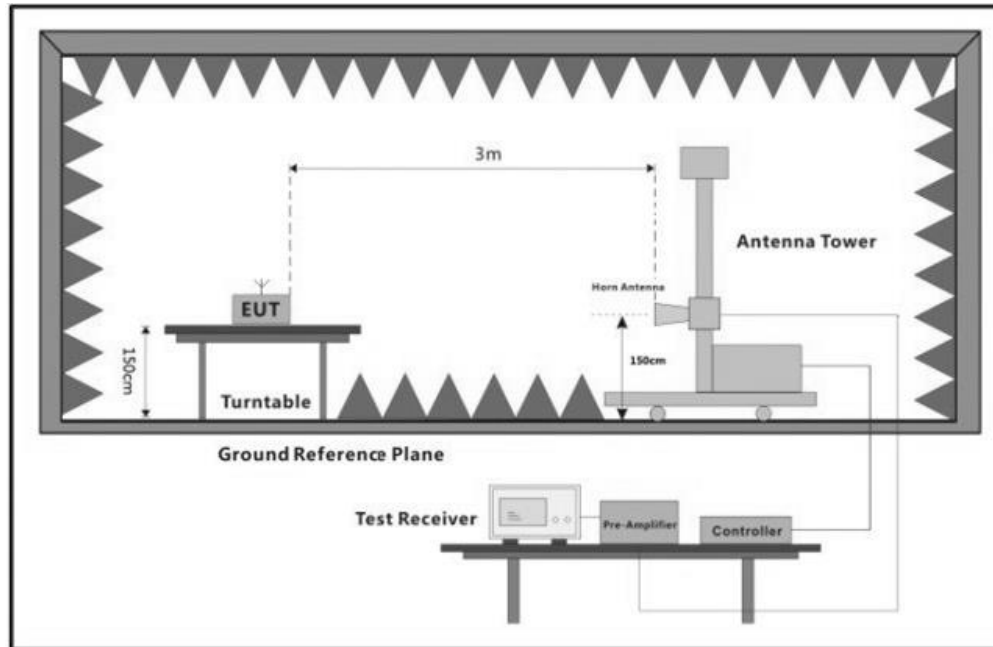
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The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep SpeedAuto
IF Bandwidth..... 10kHz
Video Bandwidth..... 10kHz
Resolution Bandwidth 10kHz

30MHz ~ 1GHz

Sweep SpeedAuto
Detector PK
Resolution Bandwidth..... 100kHz
Video Bandwidth..... 300kHz

Above 1GHz

Sweep SpeedAuto
Detector PK
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 3MHz
Detector Ave.
Resolution Bandwidth..... 1MHz
Video Bandwidth..... 10Hz

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Test Report

No.: AJT230703087E-1

7.4 Test Procedure

- 1.The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
- 2.The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3.EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4.Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5.And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6.Repeat above procedures until the measurements for all frequencies are complete.
- 7.The radiation measurements are performed in X, Y and Z axis positioning (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), the worst condition was tested putting the eut in Z axis, so the worst data were shown as follow.
- 8.A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

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Test Report

No.: AJT230703087E-1

7.6 Summary of Test Results

Wifi:

Radiated Emissions Test (Below 1GHz)

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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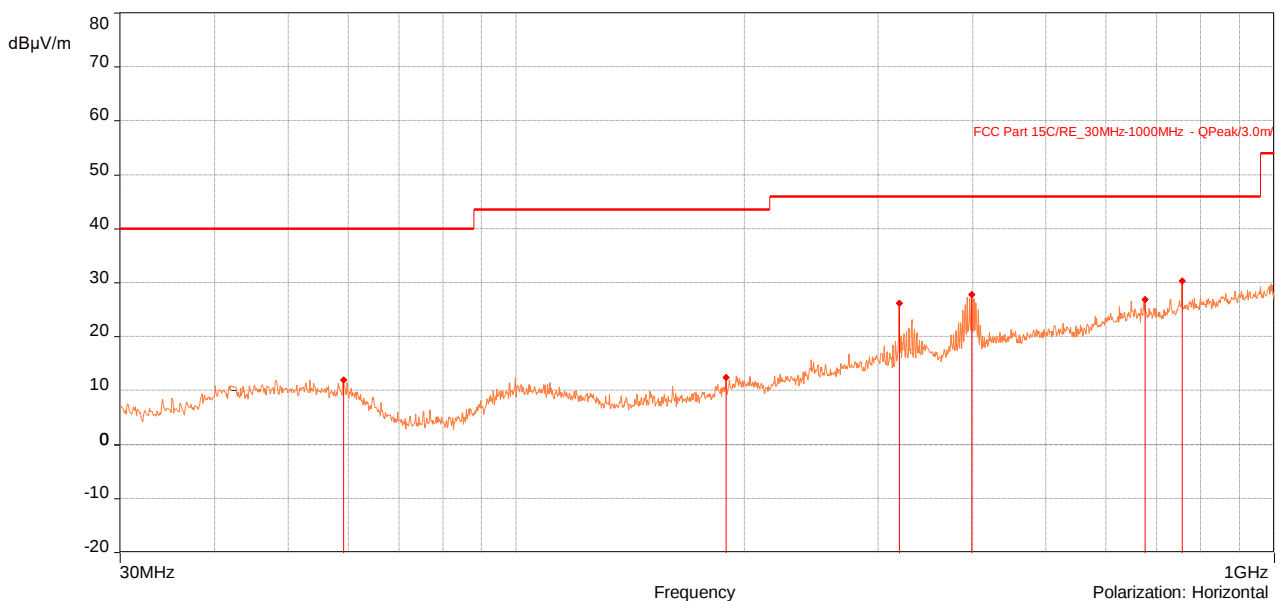
Test Report

No.: AJT230703087E-1

Radiated Emissions Test (30MHz - 1GHz)

Test Point	Operation Mode	Result
Horizontal	TX mode	PASS

EUT Name	SMART BIRD FEEDER
Operating Condition	DC: 3.7V (battery*2)
Test Condition	Ambient Temperature: 26°C Humidity: 72%RH
11b: Low Channel 2412MHz	



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
59.1	11.99	/	40.00	-28.01	103.00	1.00	Horizontal
188.886	12.41	/	43.50	-31.09	17.00	1.00	Horizontal
320.03	26.27	/	46.00	-19.73	147.00	1.00	Horizontal
399.085	27.83	/	46.00	-18.17	324.00	1.00	Horizontal
675.05	26.95	/	46.00	-19.05	253.00	1.00	Horizontal
756.045	30.39	/	46.00	-15.61	63.00	1.00	Horizontal

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Disagreement against this test report, if any, should be filed with to our company in writing within 15 days of receiving the report. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

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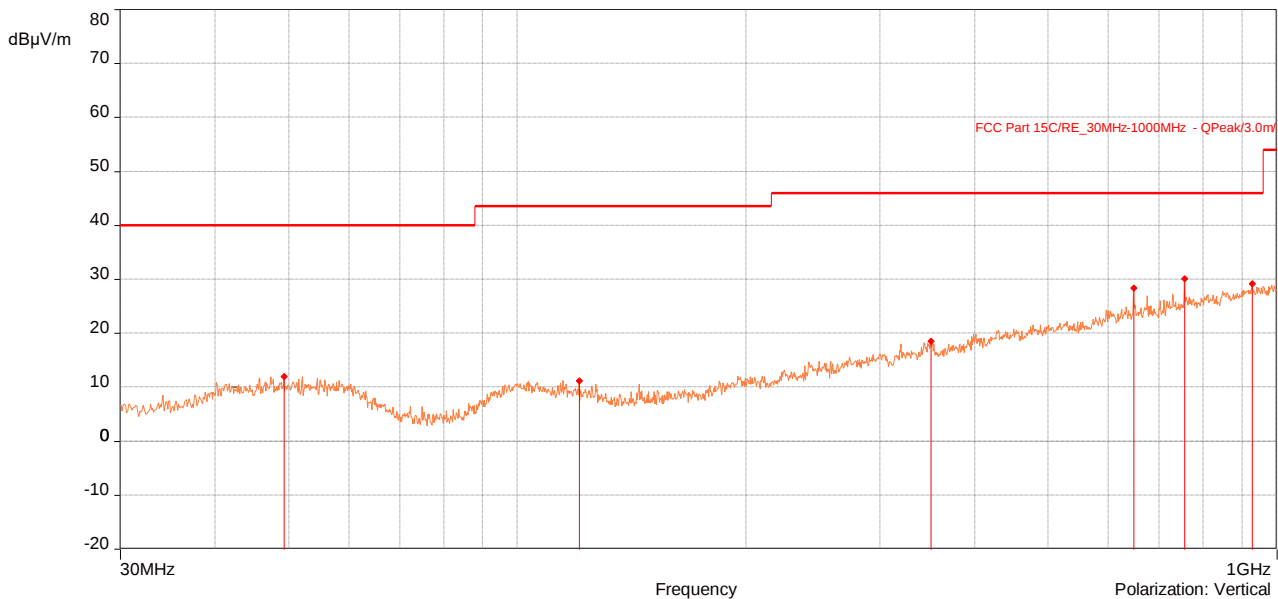
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Test Report

No.: AJT230703087E-1

Test Point	Operation Mode	Result
Vertical	TX mode	PASS

EUT Name	SMART BIRD FEEDER
Operating Condition	DC: 3.7V (battery*2)
Test Condition	Ambient Temperature: 26°C Humidity: 72%RH
11b: Low Channel 2412MHz	



Frequency (MHz)	Peak (dBμV/m)	QP (dBμV/m)	QP Lim. (dBμV/m)	Margin (dB)	Angle (°)	Height (m)	Polarization
49.303	11.97	/	40.00	-28.03	137.00	1.00	Vertical
120.695	11.14	/	43.50	-32.36	62.00	1.00	Vertical
350.003	18.57	/	46.00	-27.43	62.00	1.00	Vertical
647.987	28.43	/	46.00	-17.57	321.00	1.00	Vertical
756.045	30.11	/	46.00	-15.89	289.00	1.00	Vertical
926.862	29.22	/	46.00	-16.78	29.00	1.00	Vertical

- 1.QP is abbreviation of Quasi-Peak
- 2.Margin = Emission Level - Limit Value
- 3.The emission levels of other frequencies were more than 20dB margin against the limit

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Test Report

No.: AJT230703087E-1

Radiated Emissions Test (Above 1GHz)

Test Condition Ambient Temperature: 26°C Humidity: 72%RH

EUT Name	SMART BIRD FEEDER		
Channel	The Lowest Channel (2412MHz 11b)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.1	45.08	74.00	-28.92	1.50	254.00	Horizontal	2.74	Peak
7236.3	43.65	74.00	-30.35	1.50	286.00	Horizontal	9.60	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.1	44.55	74.00	-29.45	1.50	11.00	Vertical	2.74	Peak
7236.3	43.98	74.00	-30.02	1.50	183.00	Vertical	9.60	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Lowest Channel (2412MHz 11g)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.8	45.63	74.00	-28.37	1.50	86.00	Horizontal	2.73	Peak
7236.3	43.65	74.00	-30.35	1.50	217.00	Horizontal	9.60	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.8	38.79	74.00	-35.21	1.50	41.00	Vertical	2.73	Peak
7236.3	43.37	74.00	-30.63	1.50	292.00	Vertical	9.60	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Lowest Channel (2412MHz 11n)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.1	42.88	74.00	-31.12	1.50	234.00	Horizontal	2.74	Peak
7236.3	43.76	74.00	-30.24	1.50	33.00	Horizontal	9.60	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4824.1	40.00	74.00	-34.00	1.50	33.00	Vertical	2.74	Peak
7236.3	44.64	74.00	-29.36	1.50	279.00	Vertical	9.60	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Middle Channel (2437MHz 11b)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	48.25	74.00	-25.75	1.50	253.00	Horizontal	2.27	Peak
7311.2	43.74	74.00	-30.26	1.50	248.00	Horizontal	9.32	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	42.88	74.00	-31.12	1.50	287.00	Vertical	2.27	Peak
7311.2	43.97	74.00	-30.03	1.50	335.00	Vertical	9.32	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Middle Channel (2437MHz 11g)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	48.82	74.00	-25.18	1.50	272.00	Horizontal	2.27	Peak
7311.2	43.69	74.00	-30.31	1.50	0.00	Horizontal	9.32	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	42.51	74.00	-31.49	1.50	200.00	Vertical	2.27	Peak
7311.2	44.06	74.00	-29.94	1.50	317.00	Vertical	9.32	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Middle Channel (2437MHz 11n)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	45.83	74.00	-28.17	1.50	252.00	Horizontal	2.27	Peak
7311.2	43.71	74.00	-30.29	1.50	200.00	Horizontal	9.32	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4873.8	40.17	74.00	-33.83	1.50	15.00	Vertical	2.27	Peak
7311.2	44.05	74.00	-29.95	1.50	35.00	Vertical	9.32	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Highest Channel (2462MHz 11b)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	51.09	74.00	-22.91	1.50	240.00	Horizontal	2.40	Peak
7386.1	43.57	74.00	-30.43	1.50	264.00	Horizontal	9.49	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	46.63	74.00	-27.37	1.50	351.00	Vertical	2.40	Peak
7386.1	44.61	74.00	-29.39	1.50	133.00	Vertical	9.49	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Highest Channel (2462MHz 11g)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	47.71	74.00	-26.29	1.50	289.00	Horizontal	2.40	Peak
7386.1	46.08	74.00	-27.92	1.50	345.00	Horizontal	9.49	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	43.52	74.00	-30.48	1.50	127.00	Vertical	2.40	Peak
7386.1	44.39	74.00	-29.61	1.50	243.00	Vertical	9.49	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

EUT Name	SMART BIRD FEEDER		
Channel	The Highest Channel (2462MHz 11n)	Detector Function	Peak (PK)
Frequency Range	Above 1GHz	Result	PASS

Antenna Polarity & Test Distance: Horizontal At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	46.74	74.00	-27.26	1.50	235.00	Horizontal	2.40	Peak
7386.1	45.92	74.00	-28.08	1.50	82.00	Horizontal	9.49	Peak
The maximized peak measured value complies with the average limit.								
Antenna Polarity & Test Distance: Vertical At 3m								
Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)	Detector
4924.2	42.79	74.00	-31.21	1.50	204.00	Vertical	2.40	Peak
7386.1	44.21	74.00	-29.79	1.50	149.00	Vertical	9.49	Peak
The maximized peak measured value complies with the average limit.								
Remarks: 1. Emission level (dBμV/m) = Raw Value (dBμV) + Correction Factor (dB/m) 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) 3. The emission levels of other frequencies were more than 20dB margin against the limit. 4. Margin = Emission level - Limit value 5. Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.								

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Test Report

No.: AJT230703087E-1

8 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013
Test Result: PASS
Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

8.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - (a) Set instrument center frequency to DTS channel center frequency.
 - (b) Set the span to ≈ 1.5 times the DTS bandwidth.
 - (c) Set the RBW = 100 kHz.
 - (d) Set the VBW $\approx [3 \times \text{RBW}]$.
 - (e) Detector = peak.
 - (f) Sweep time = auto couple.
 - (g) Trace mode = max hold.
 - (h) Allow trace to fully stabilize.
 - (i) Use the peak marker function to determine the maximum PSD level.Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

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8.2 Test Result

TestMode	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11b	2412	Reference	-15.25	-15.25	---	PASS
		30~1000	-15.25	-74.83	≤ -35.25	PASS
		1000~26500	-15.25	-54	≤ -35.25	PASS
	2437	Reference	-10.11	-10.11	---	PASS
		30~1000	-10.11	-74.32	≤ -30.11	PASS
		1000~26500	-10.11	-53.44	≤ -30.11	PASS
	2462	Reference	-11.97	-11.97	---	PASS
		30~1000	-11.97	-74.05	≤ -31.97	PASS
		1000~26500	-11.97	-54.75	≤ -31.97	PASS
11g	2412	Reference	-17.36	-17.36	---	PASS
		30~1000	-17.36	-74.45	≤ -37.36	PASS
		1000~26500	-17.36	-53.77	≤ -37.36	PASS
	2437	Reference	-12.48	-12.48	---	PASS
		30~1000	-12.48	-74.99	≤ -32.48	PASS
		1000~26500	-12.48	-53.91	≤ -32.48	PASS
	2462	Reference	-14.33	-14.33	---	PASS
		30~1000	-14.33	-74.19	≤ -34.33	PASS
		1000~26500	-14.33	-54.44	≤ -34.33	PASS
11n20	2412	Reference	-17.79	-17.79	---	PASS
		30~1000	-17.79	-74.24	≤ -37.79	PASS
		1000~26500	-17.79	-54.1	≤ -37.79	PASS
	2437	Reference	-12.66	-12.66	---	PASS
		30~1000	-12.66	-74.84	≤ -32.66	PASS
		1000~26500	-12.66	-54.25	≤ -32.66	PASS
	2462	Reference	-14.77	-14.77	---	PASS
		30~1000	-14.77	-73.68	≤ -34.77	PASS
		1000~26500	-14.77	-54.41	≤ -34.77	PASS

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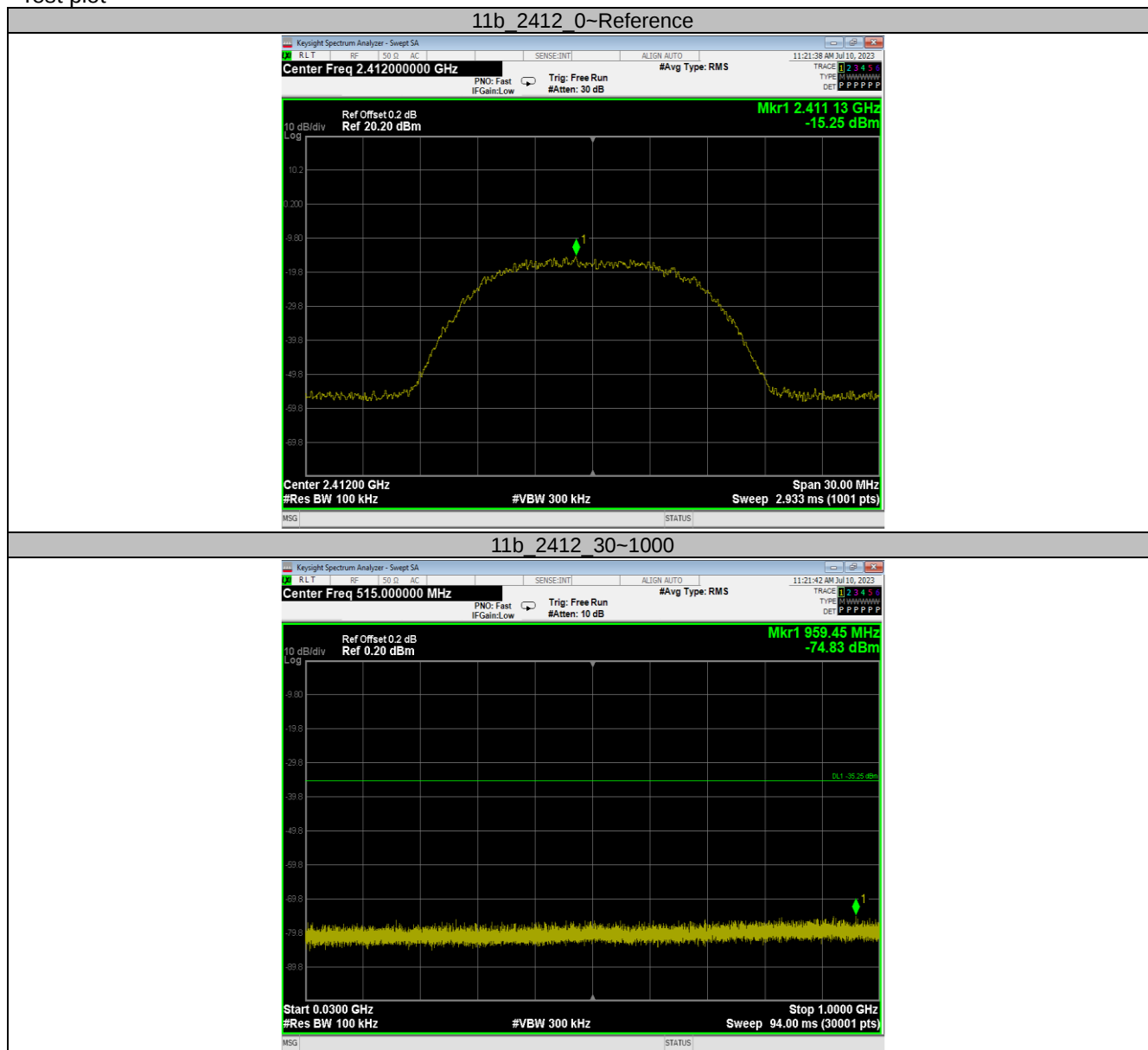
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Test Report

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Test plot



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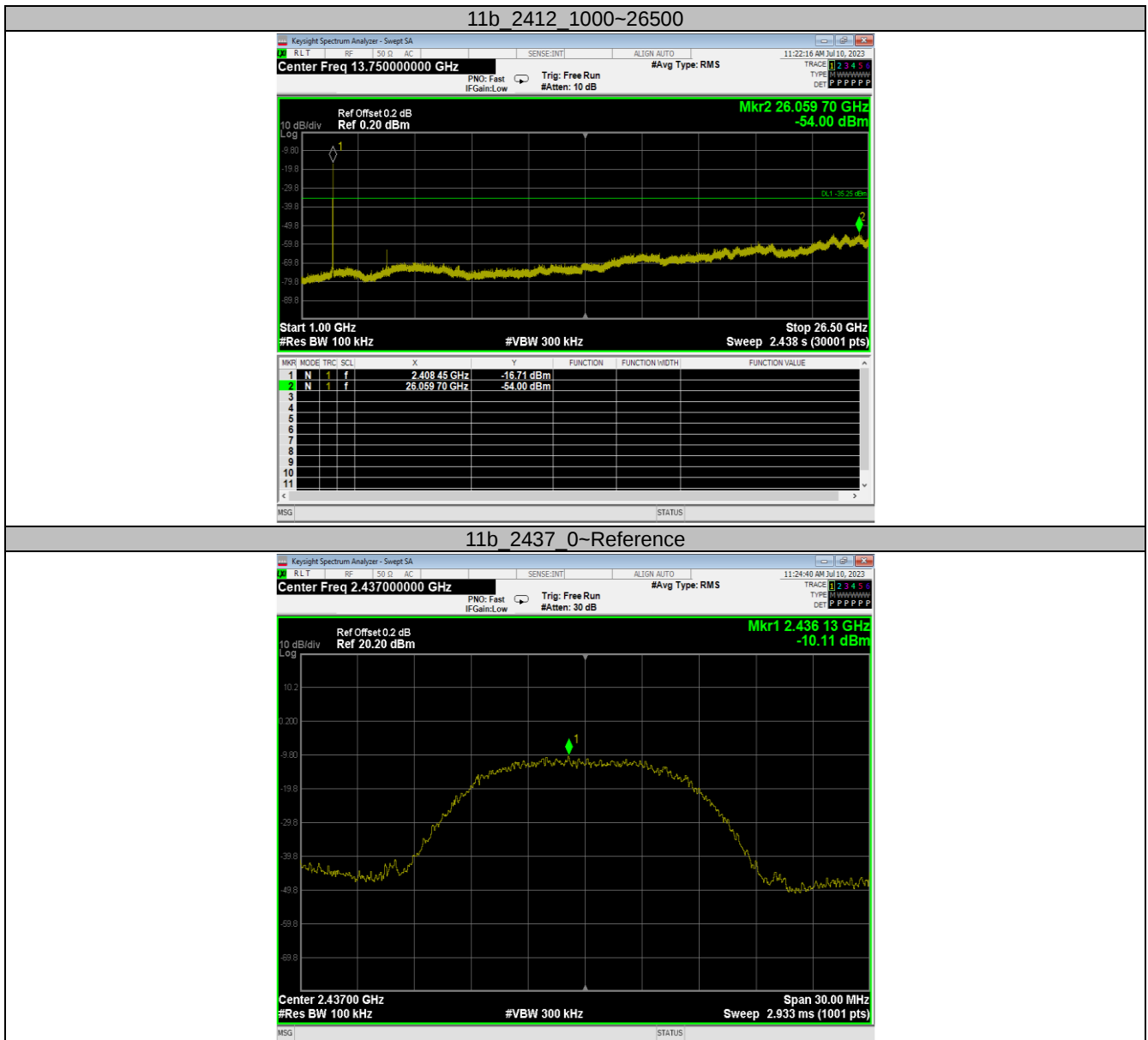
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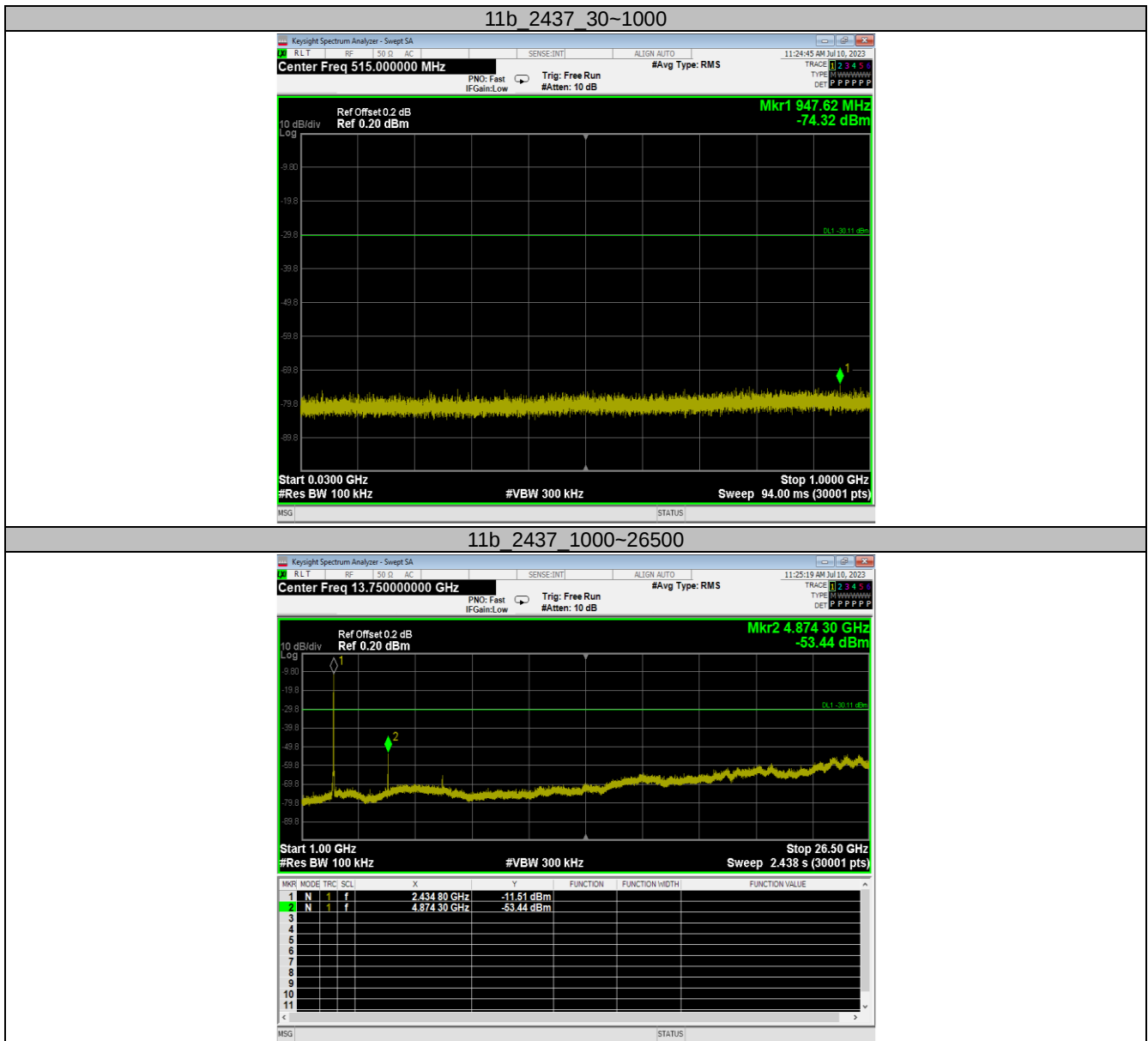
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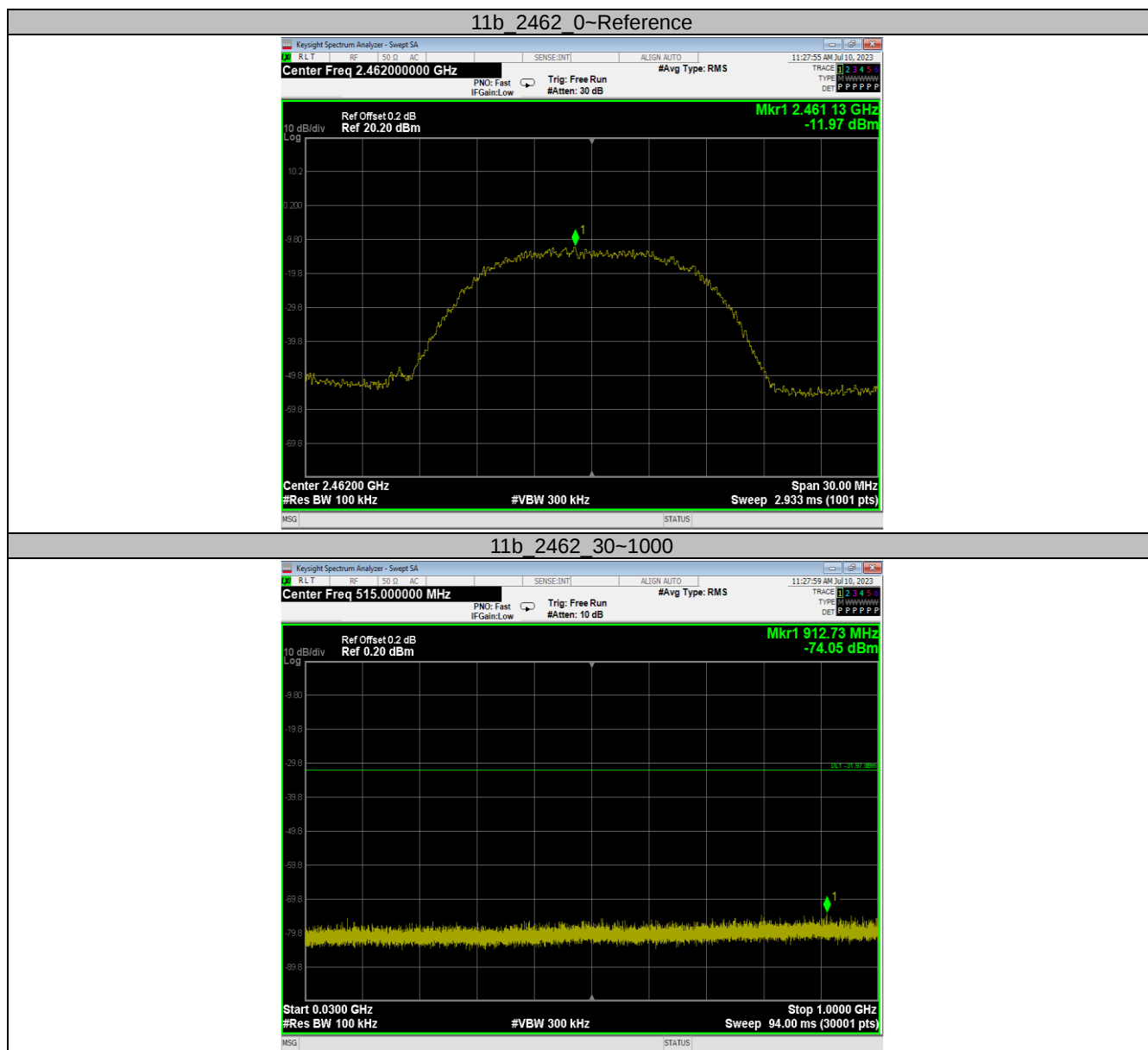
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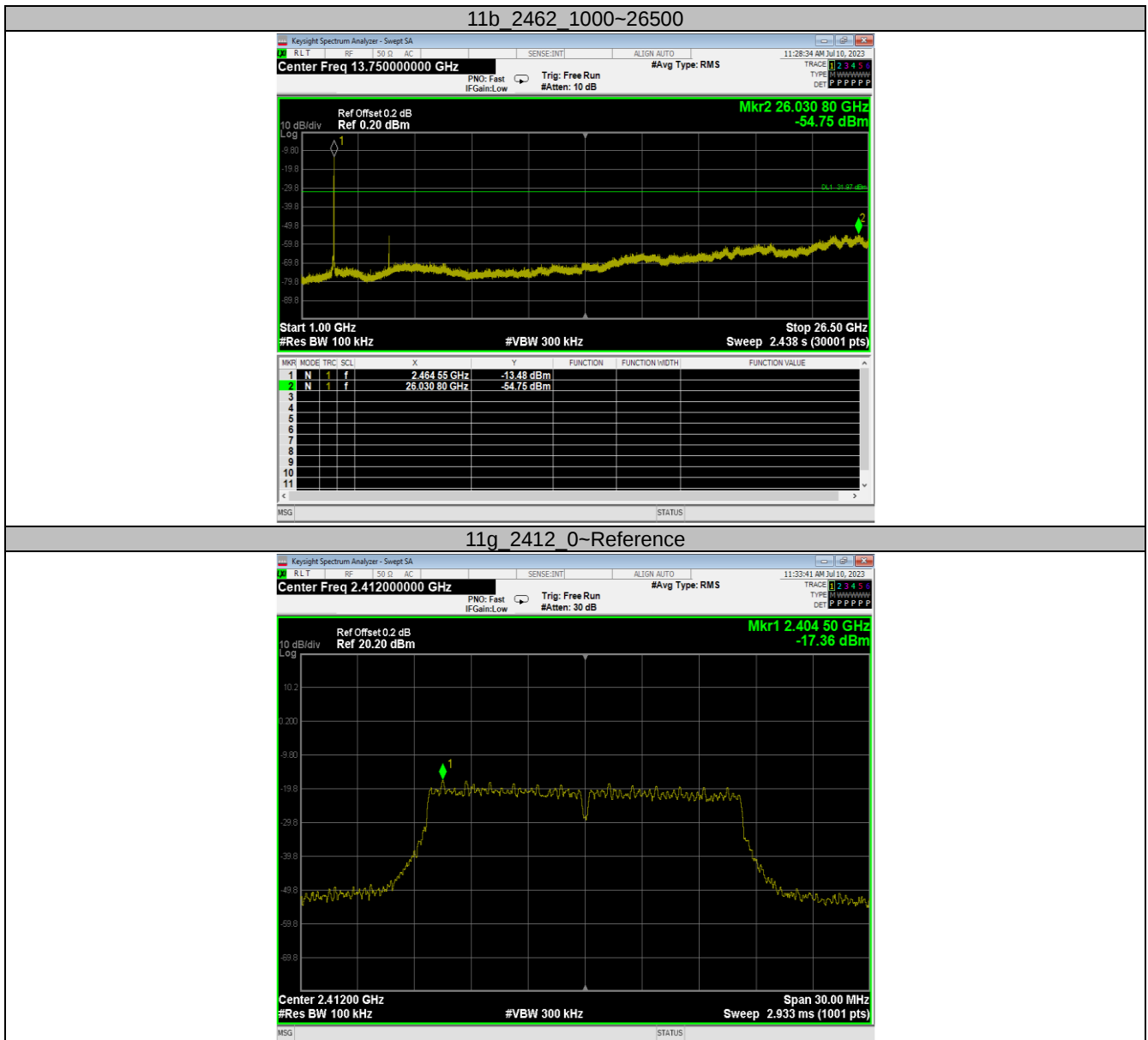
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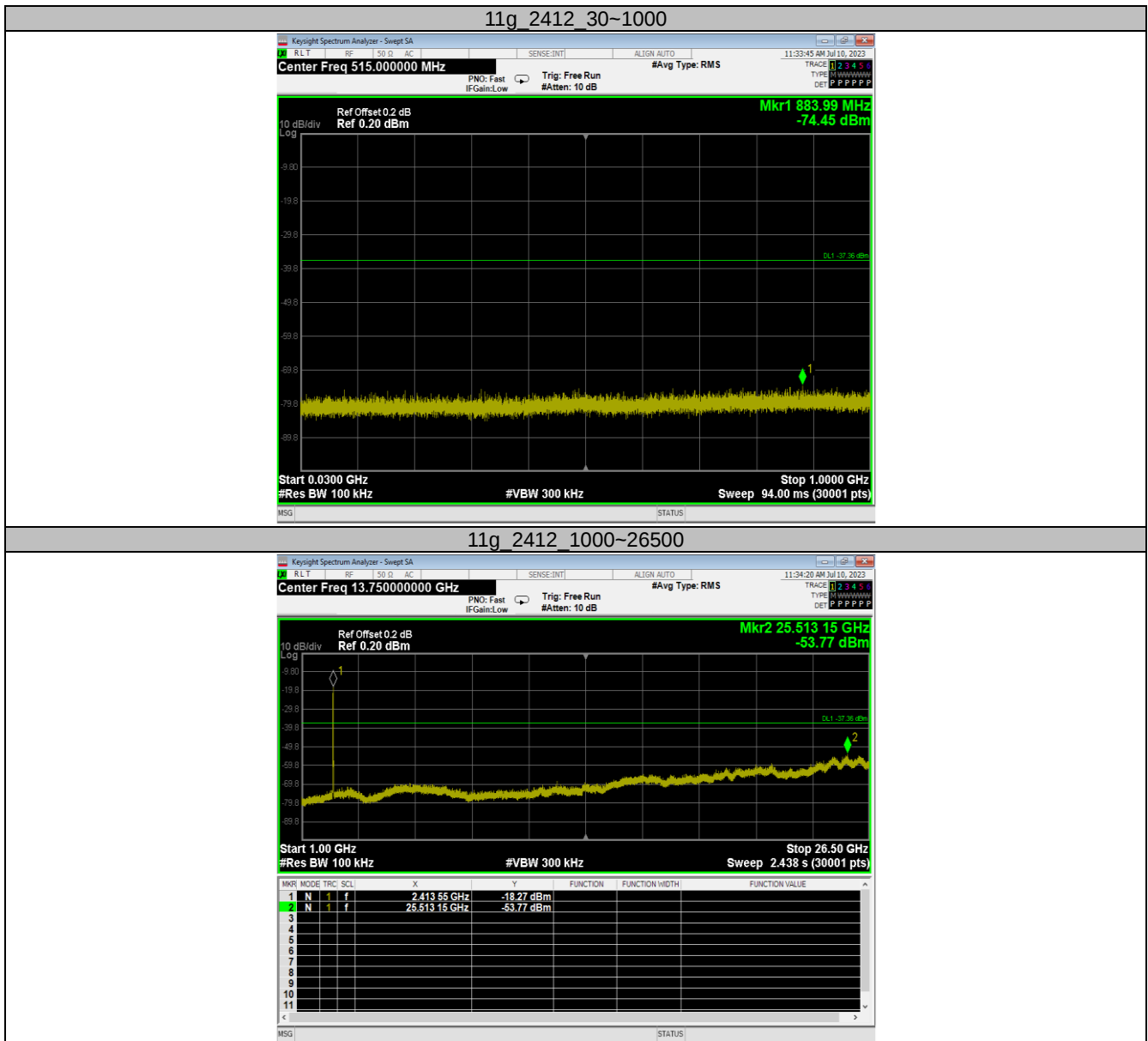
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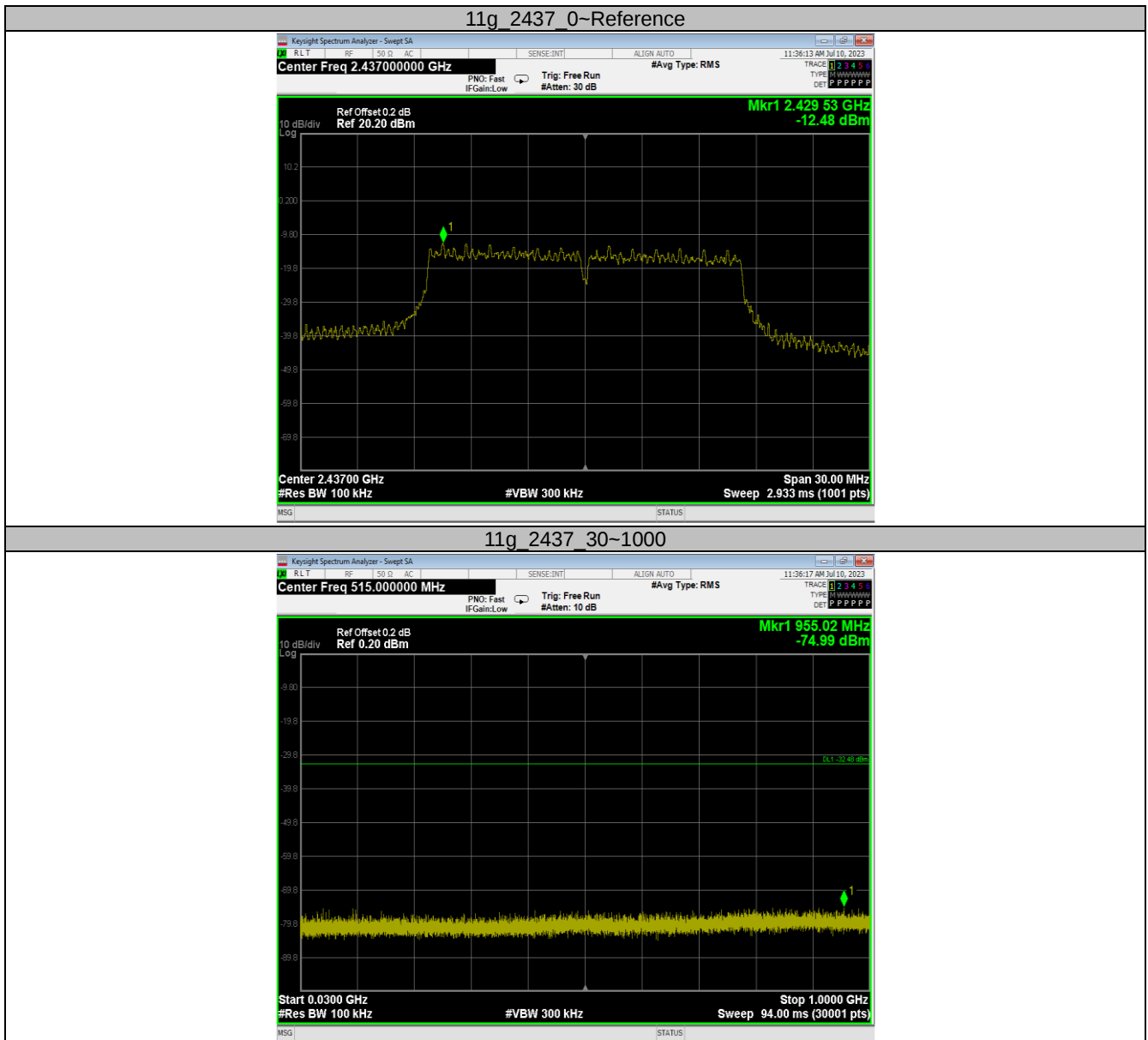
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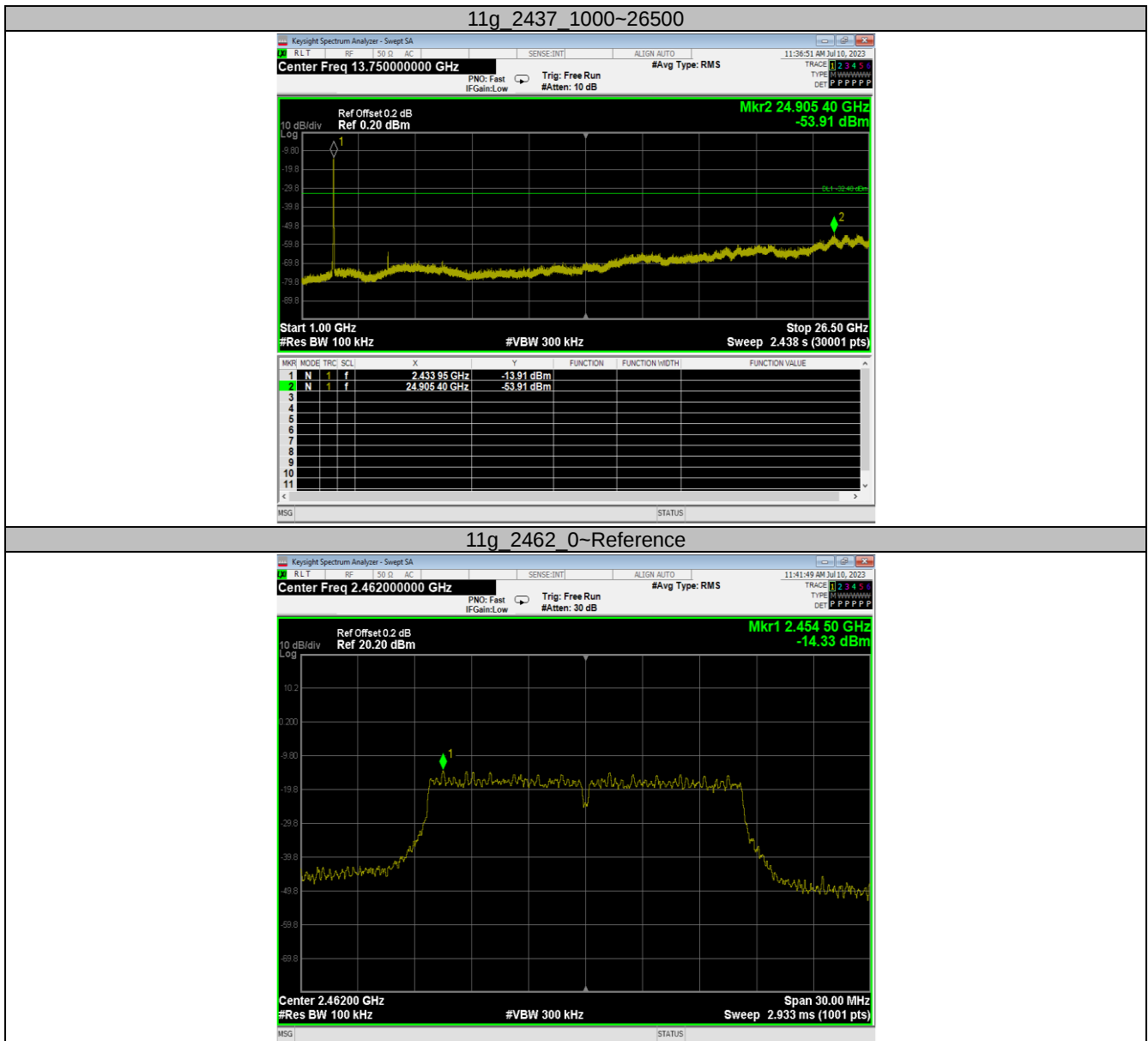
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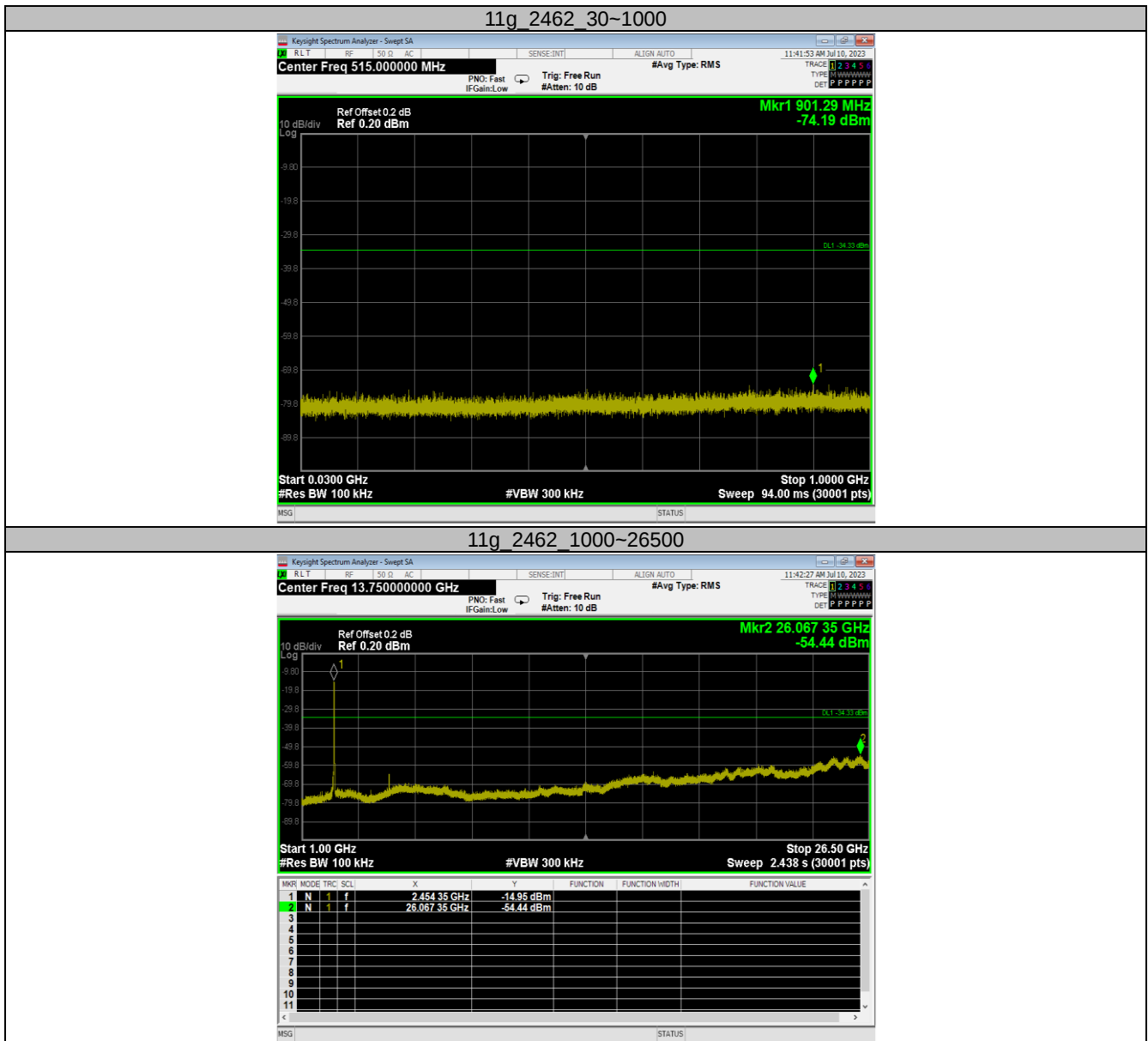
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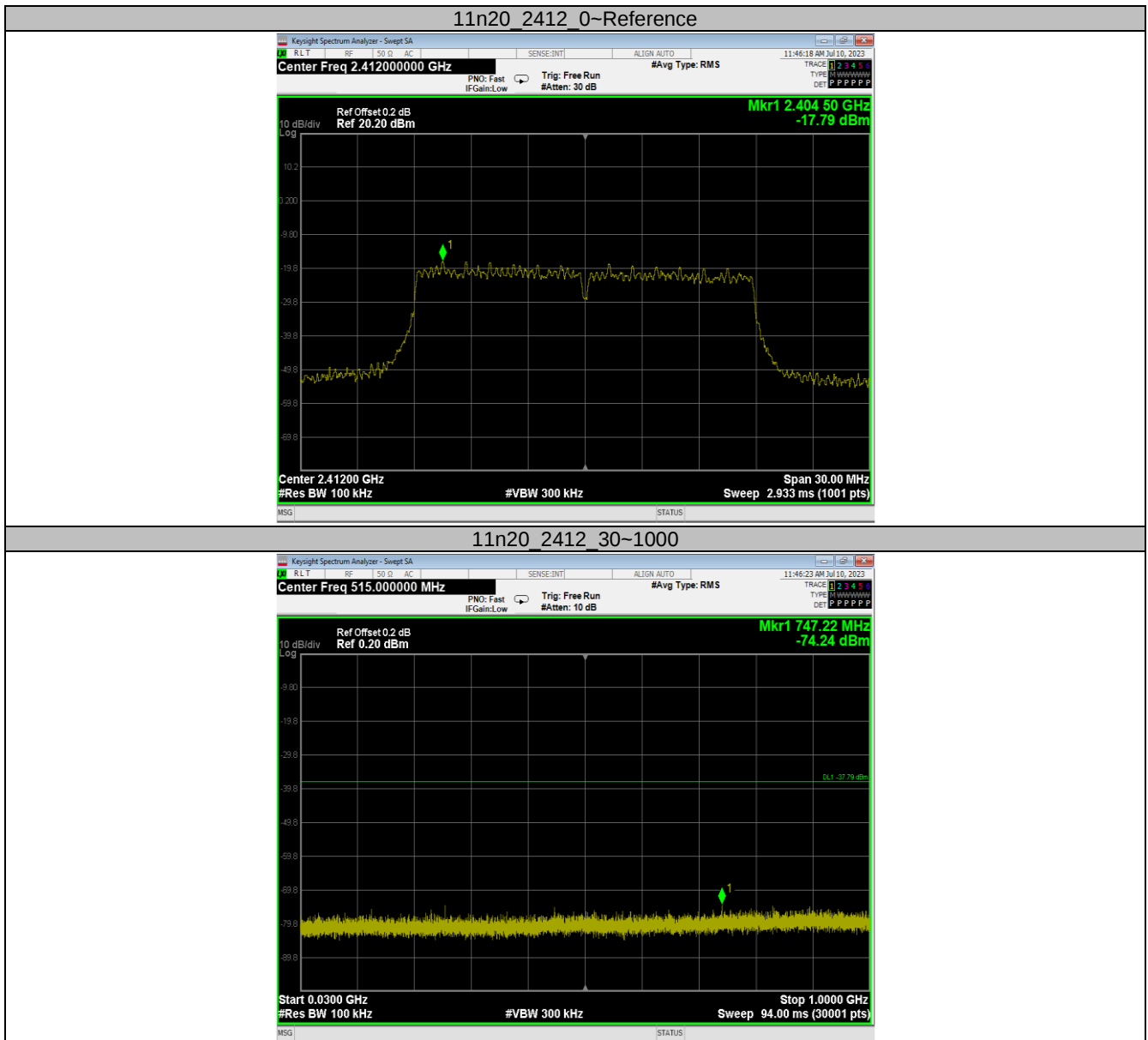
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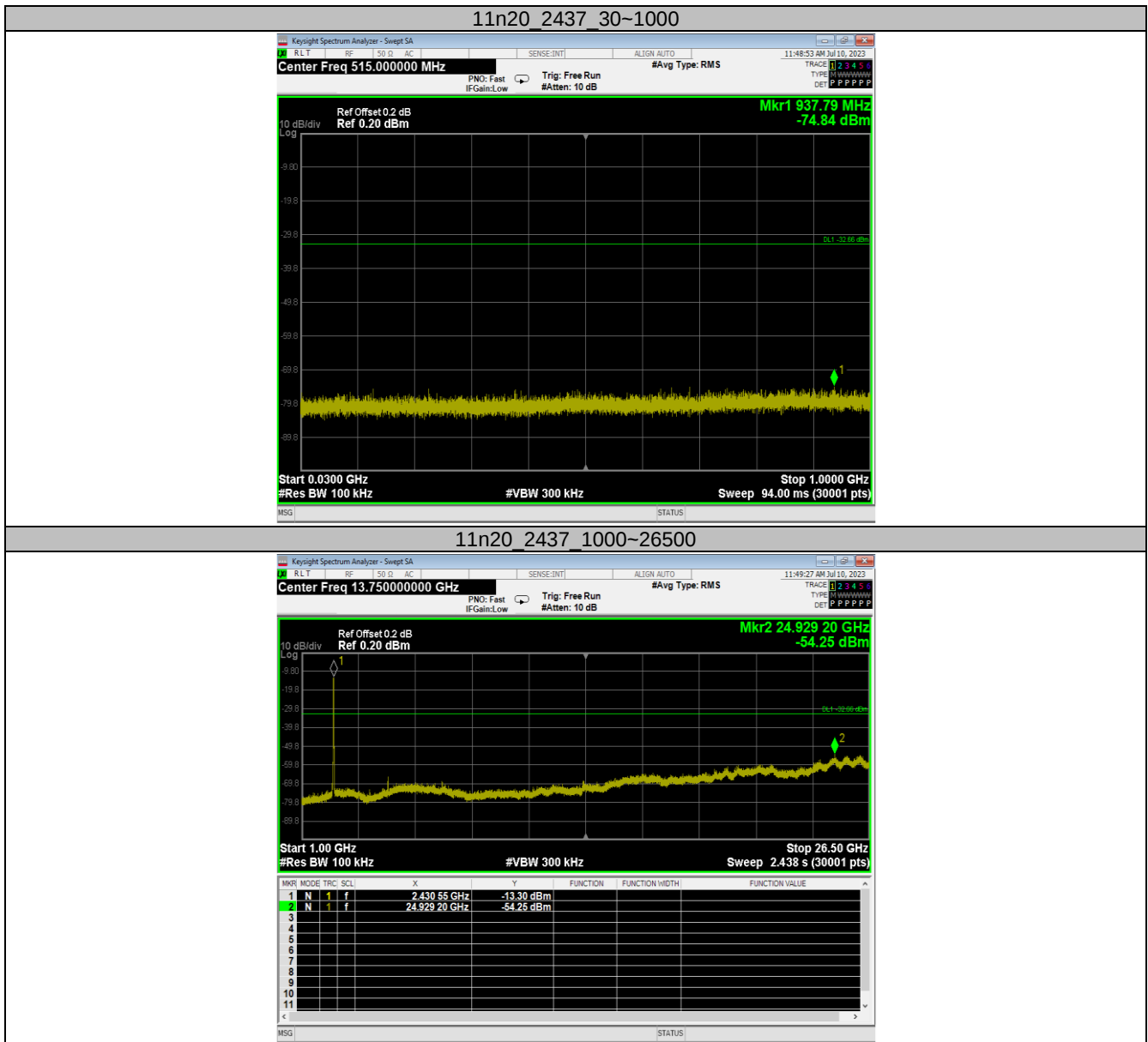
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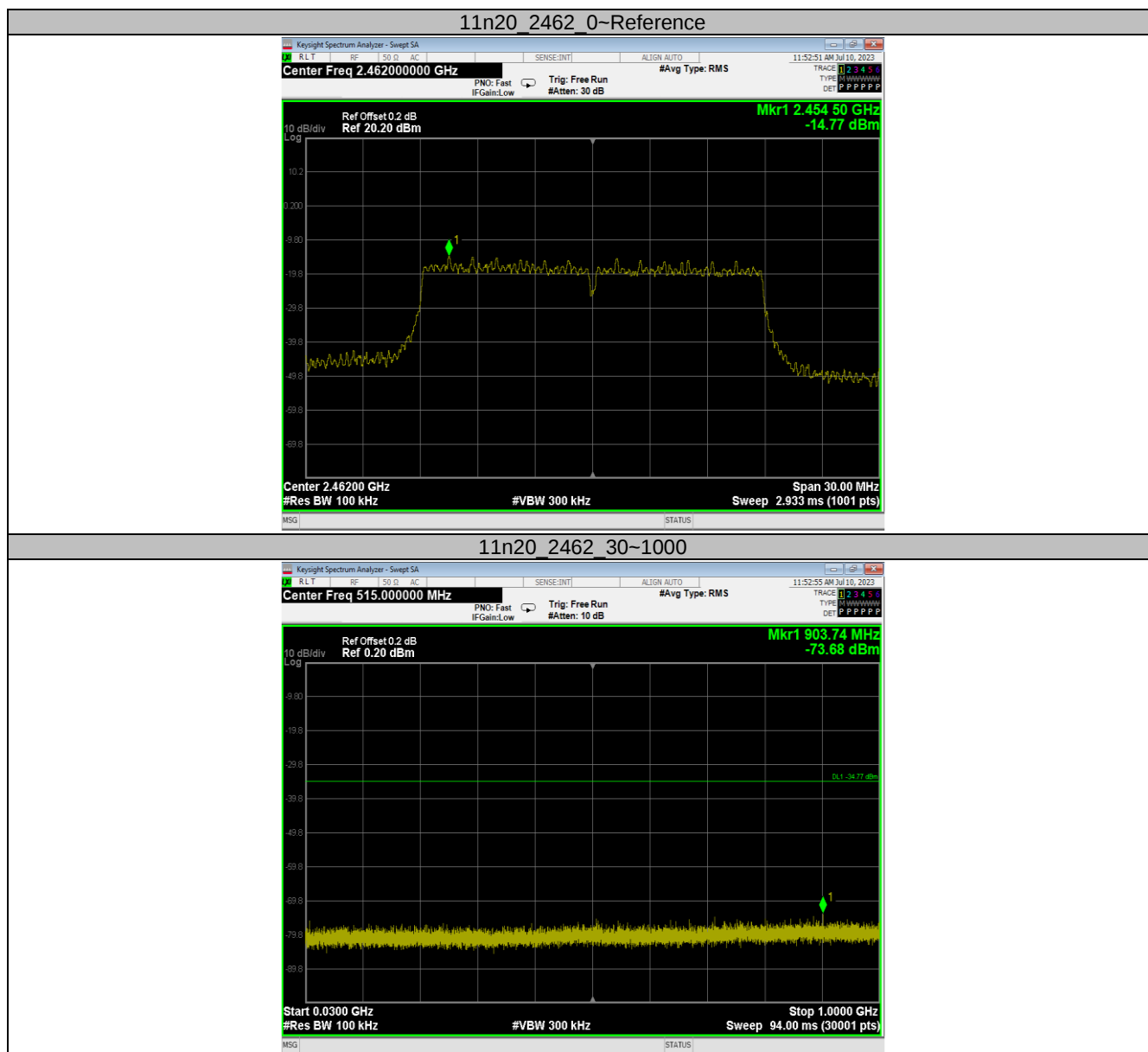
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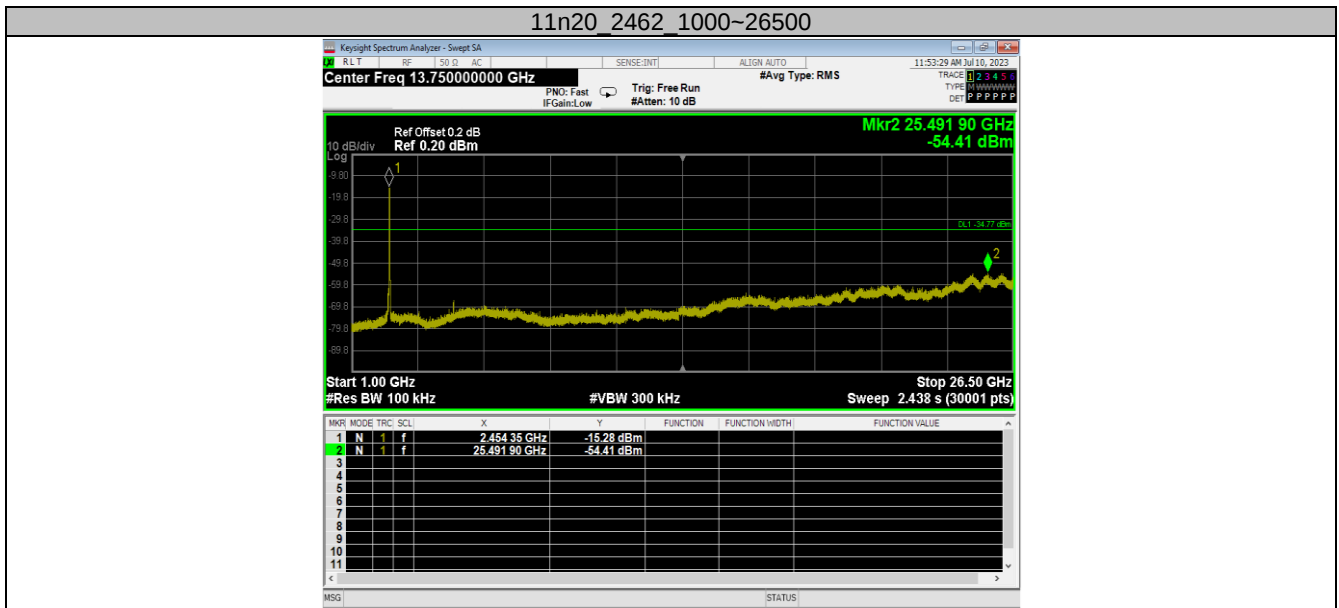
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Test Report

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9 Duty Cycle

TestMode	Channel	On Time [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty cycle factor(dB)	Average Factor(dB)
11b	2412	1.67	1.70	98.24	0.077	-0.154
	2437	1.67	1.70	98.24	0.077	-0.154
	2462	1.67	1.70	98.24	0.077	-0.154
11g	2412	0.33	0.36	91.67	0.378	-0.756
	2437	0.32	0.36	88.89	0.511	-1.023
	2462	0.33	0.36	91.67	0.378	-0.756
11n20	2412	0.29	0.32	90.63	0.427	-0.855
	2437	0.29	0.33	87.88	0.561	-1.122
	2462	0.29	0.32	90.63	0.427	-0.855

Remark:

Duty cycle=On Time/period

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$

Average factor= $20 \cdot \log(\text{Duty cycle})$

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Test Report

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Test plot



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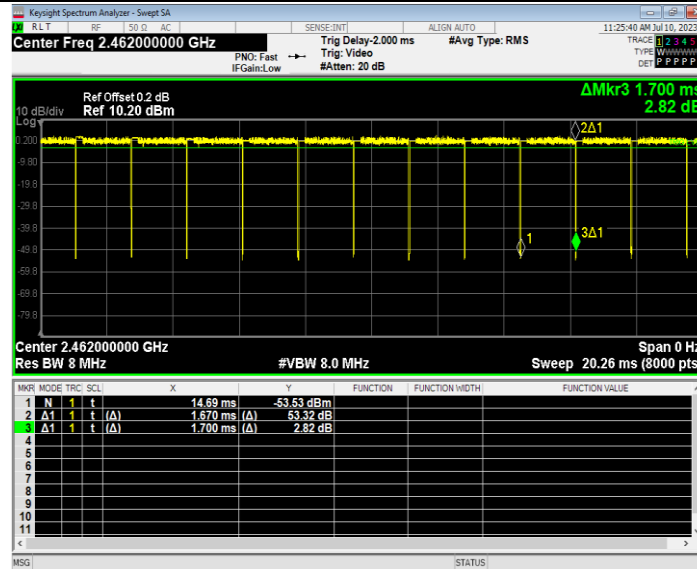
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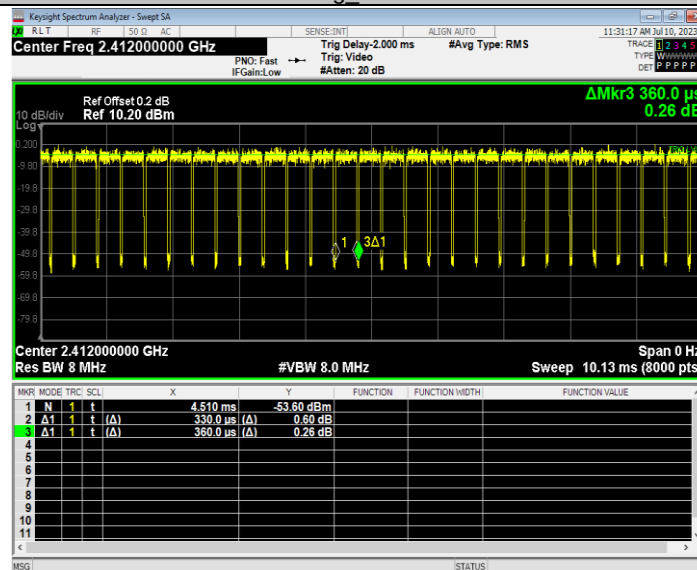
Test Report

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11b 2462



11g 2412



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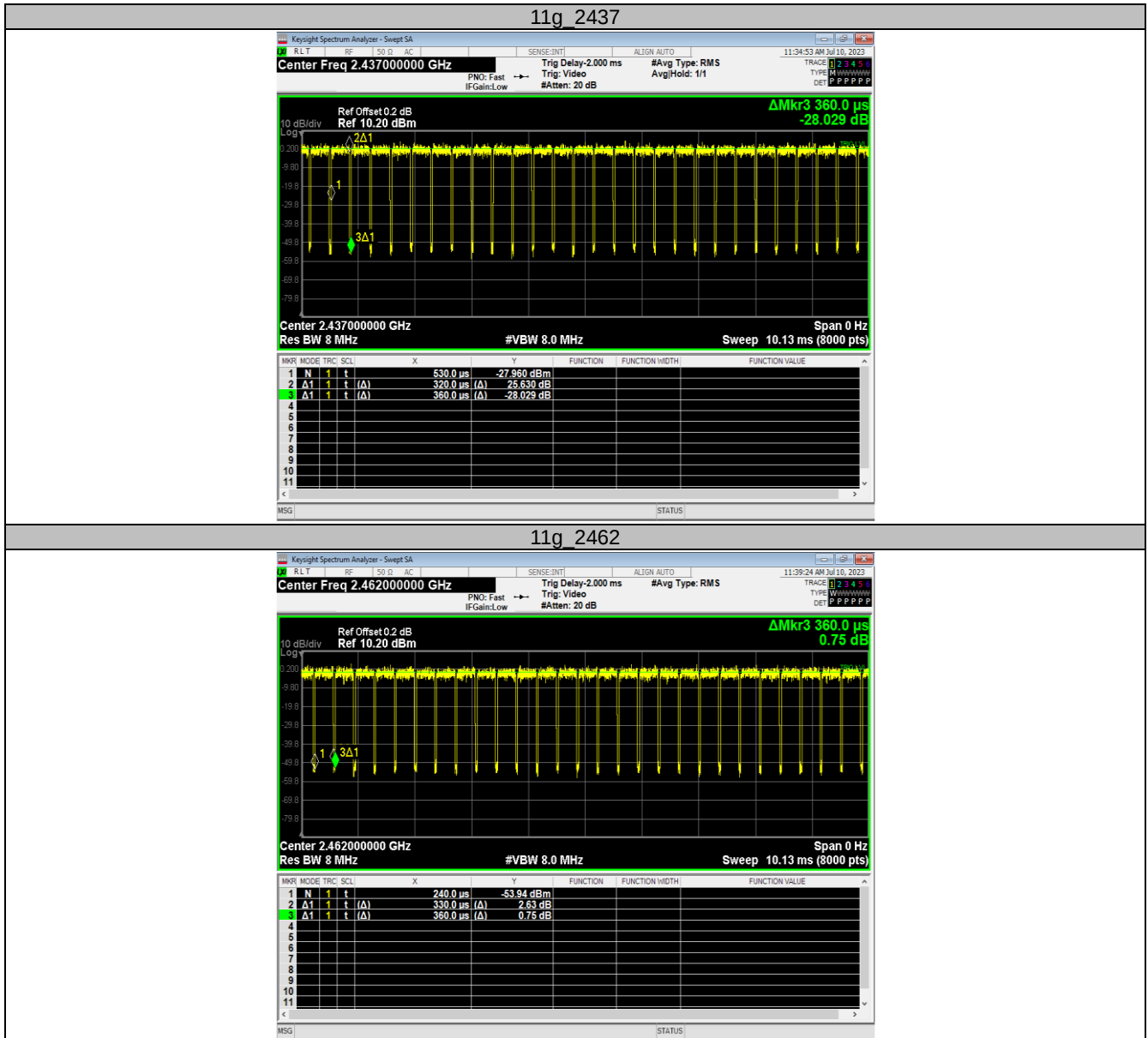
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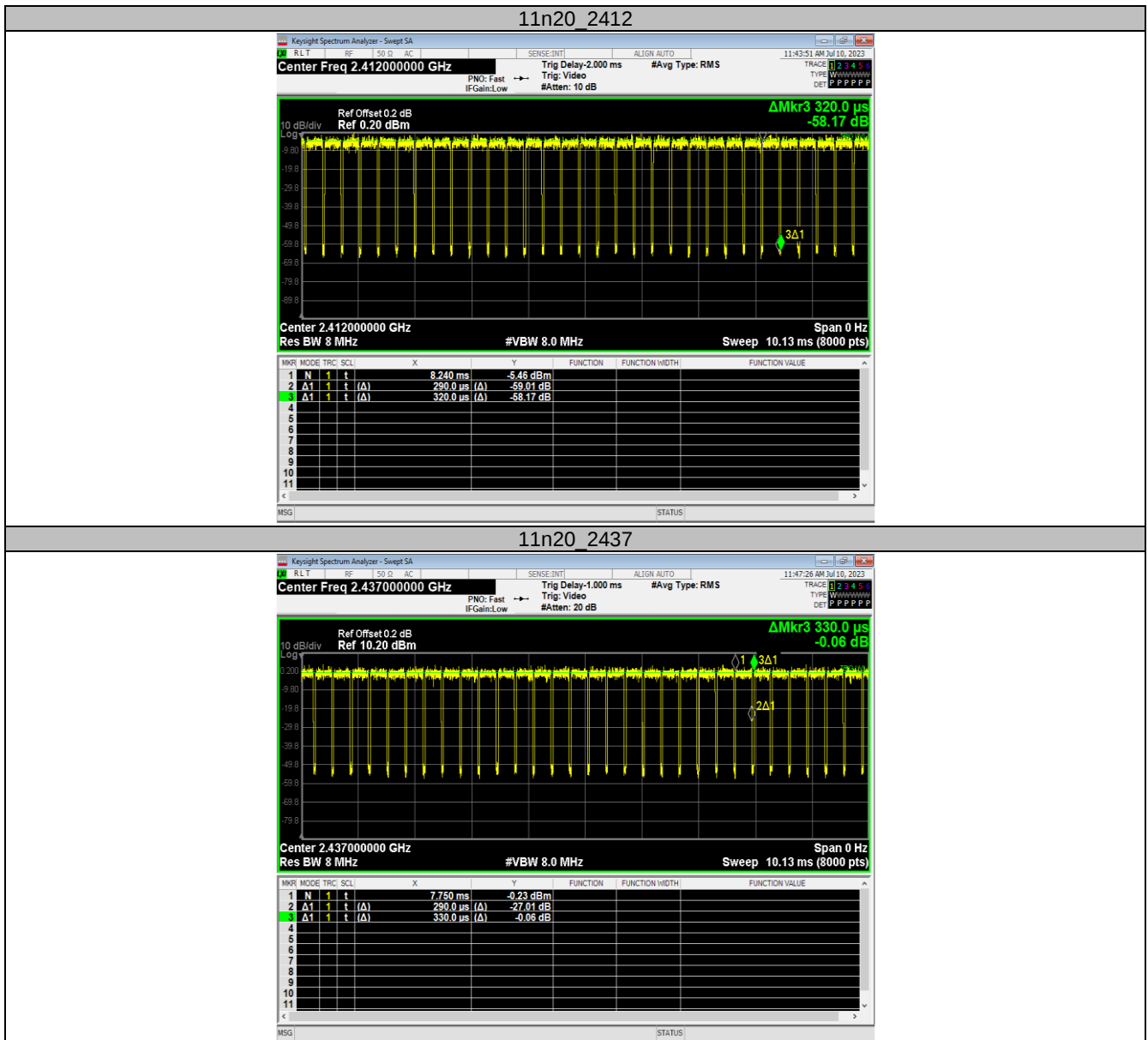
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Test Report

No.: AJT230703087E-1



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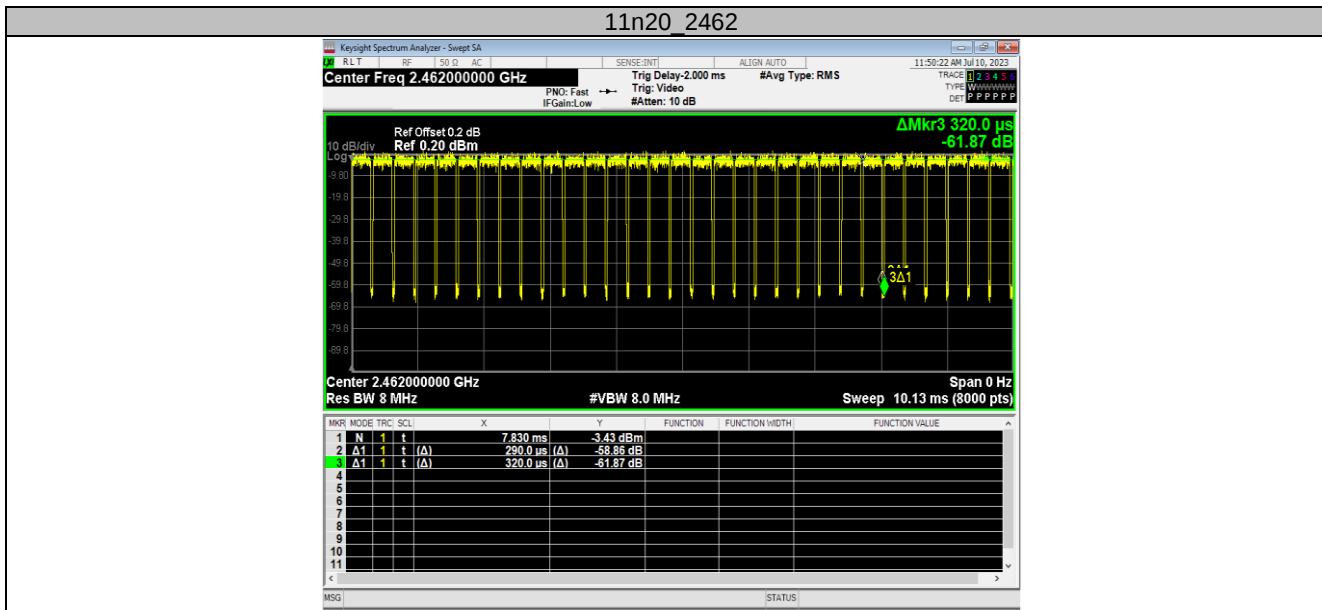
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Test Report

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Test Report

No.: AJT230703087E-1

10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

10.2 Test Result

Test result plots shown as follows:

TestMode	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11b	Low	2412	-15.27	-58.12	≤-45.27	PASS
	High	2462	-12.52	-67.07	≤-42.52	PASS
11g	Low	2412	-17.55	-50.72	≤-47.55	PASS
	High	2462	-14.57	-57.63	≤-44.57	PASS
11n20	Low	2412	-17.75	-50.44	≤-47.75	PASS
	High	2462	-14.96	-56.95	≤-44.96	PASS

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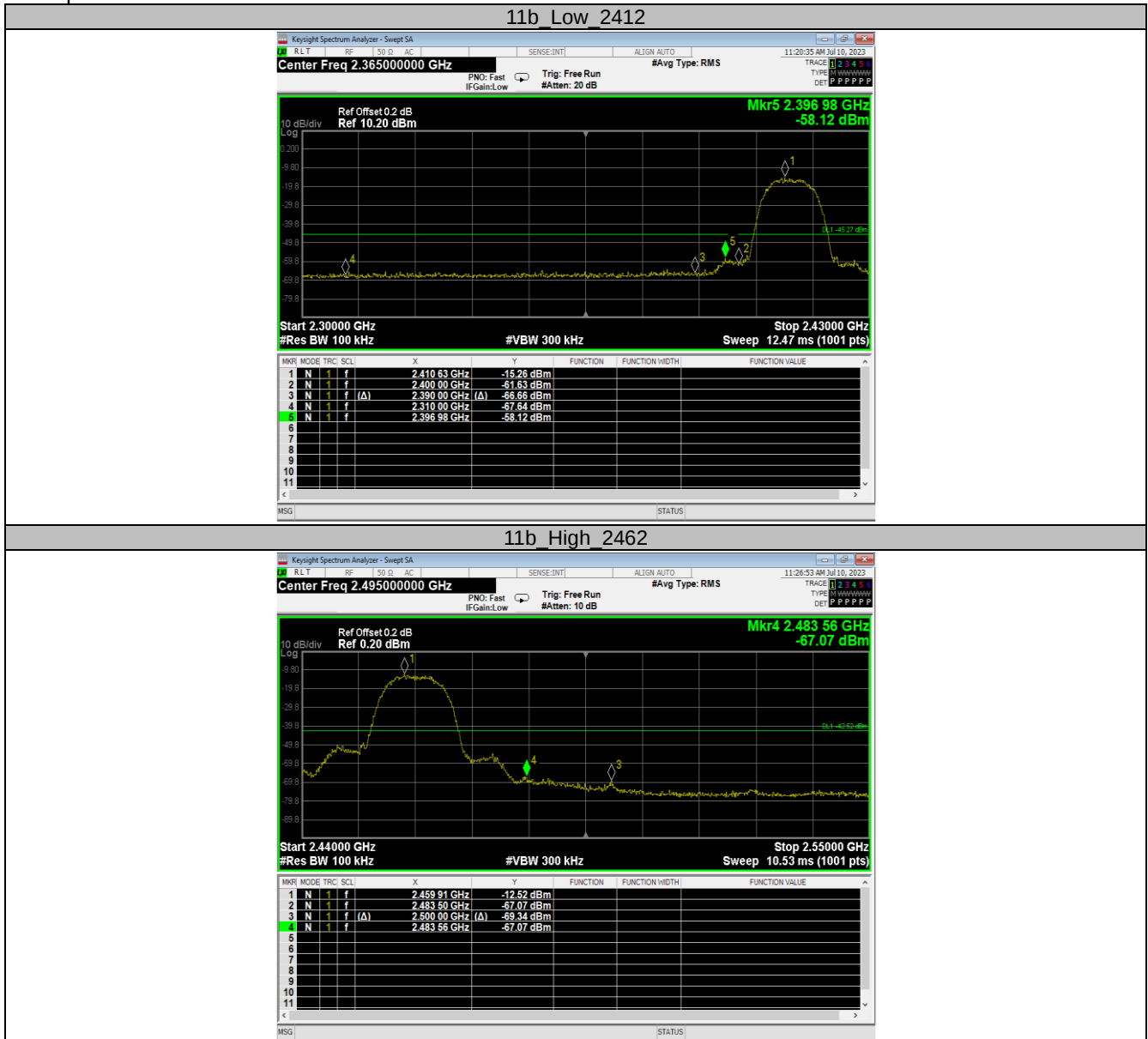
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Test Report

No.: AJT230703087E-1

Test plot



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Test Report

No.: AJT230703087E-1

11 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Limit: For systems using digital modulation techniques that may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands, the minimum 6 dB bandwidth shall be at least 500 kHz.

11.1 Test Procedure:

- 1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2.6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz
99% Bandwidth Set the spectrum analyzer: RBW = 1~5% DTS OBW, VBW = 3 RBW

11.2 Test Result:

Test Mode	Channel	6dB BW [MHz]	6dB Limit [MHz]	OCB [MHz]	Result
11b	2412	10.880	≥ 0.5	13.107	Pass
	2437	11.120	≥ 0.5	13.335	Pass
	2462	11.120	≥ 0.5	13.158	Pass
11g	2412	16.520	≥ 0.5	16.791	Pass
	2437	16.480	≥ 0.5	17.137	Pass
	2462	16.560	≥ 0.5	16.783	Pass
11n20	2412	17.760	≥ 0.5	17.860	Pass
	2437	17.760	≥ 0.5	18.078	Pass
	2462	17.800	≥ 0.5	17.847	Pass

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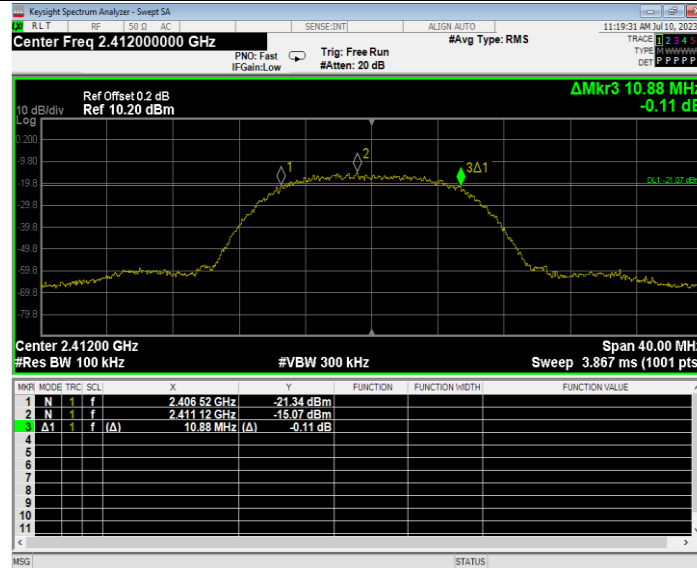
Test Report

No.: AJT230703087E-1

Test result plot:

6 dB Bandwidth

11b_2412



11b_2437



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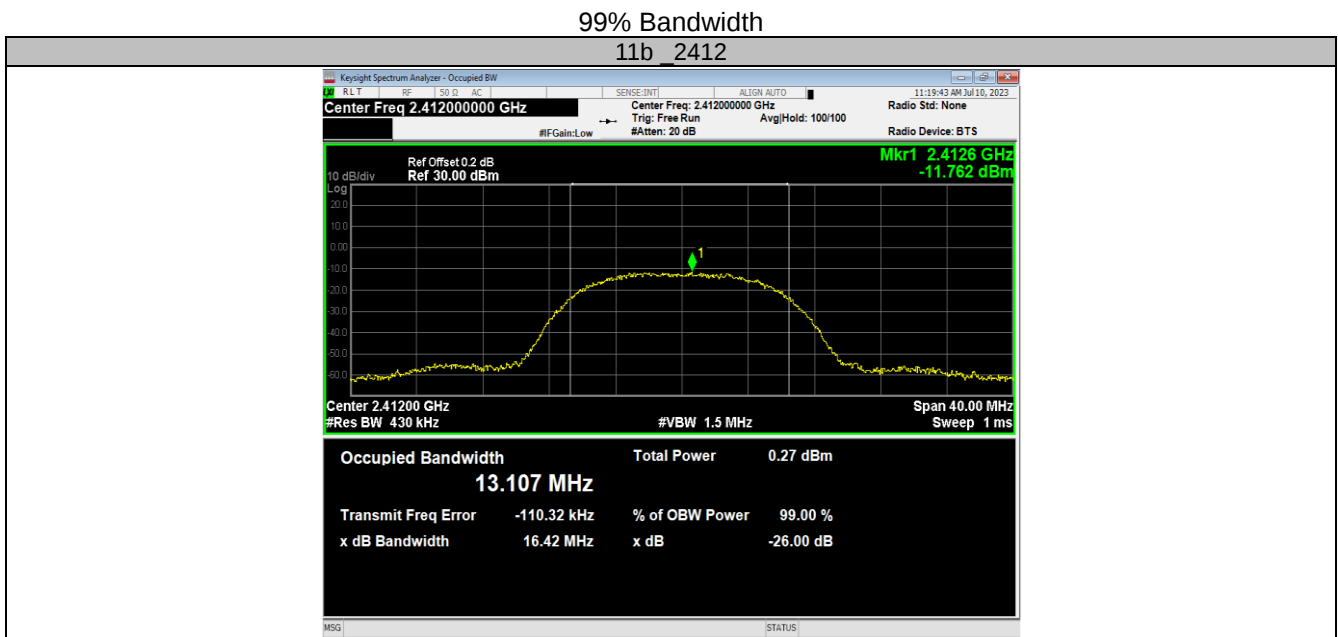
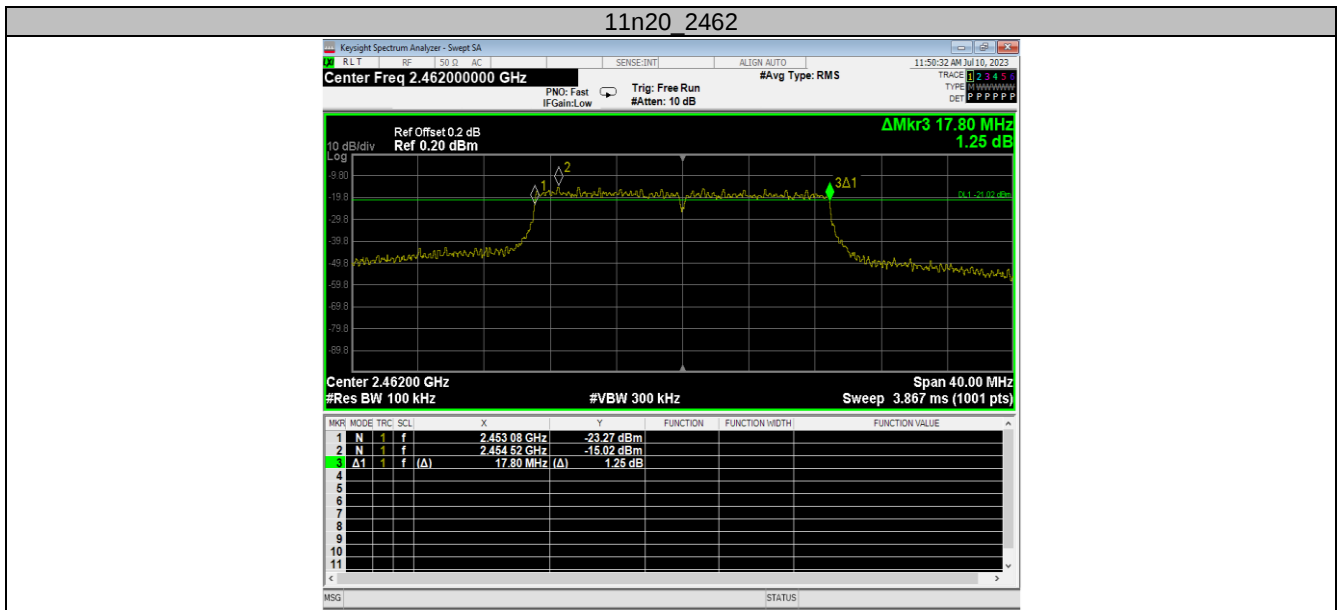
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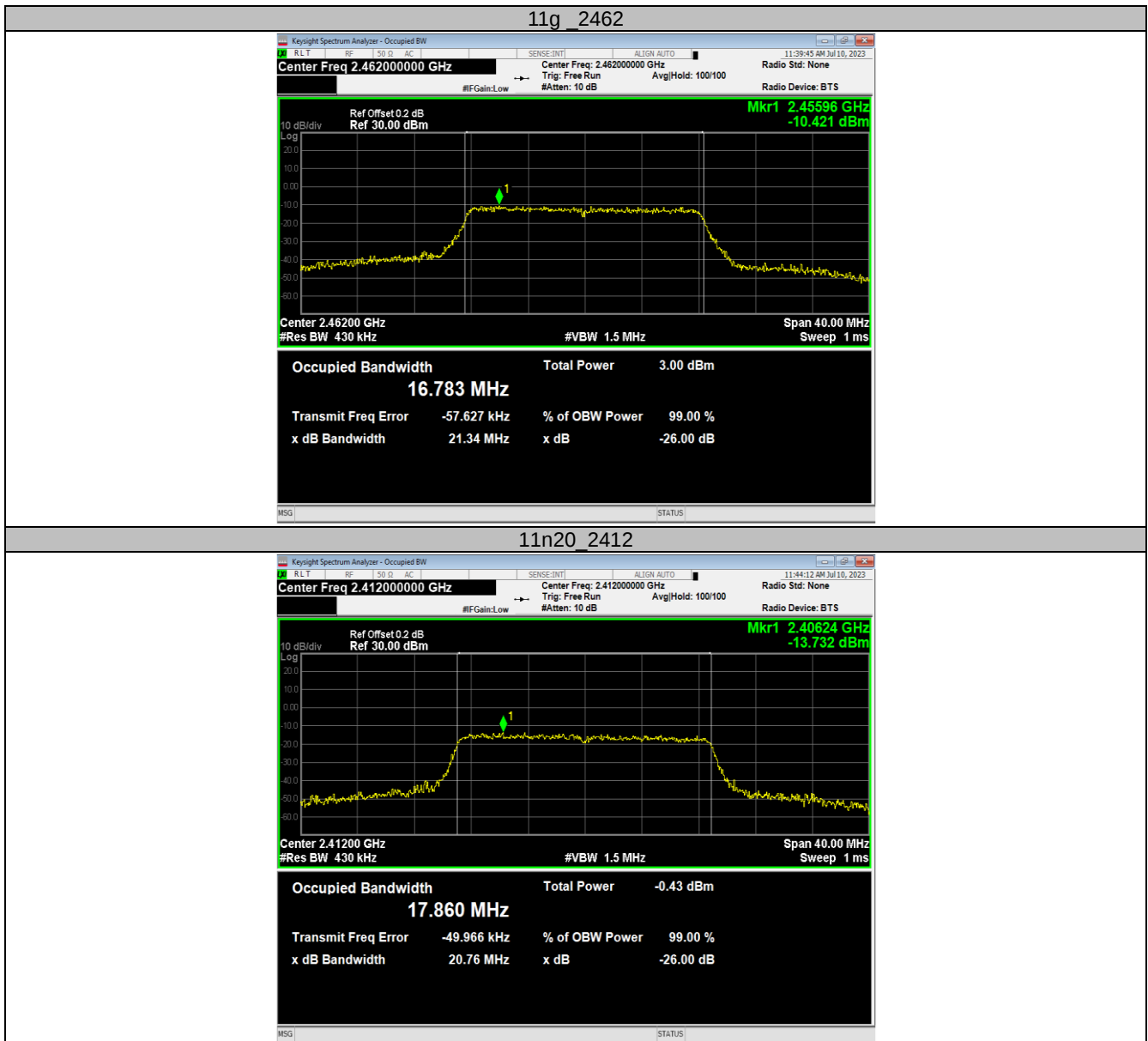
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Test Report

No.: AJT230703087E-1

12 Maximum Conducted Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

12.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019

section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- (a) Set the RBW $\geq$ DTS bandwidth.
- (b) Set VBW $\geq 3 \times$ RBW.
- (c) Set span $\geq 3 \times$ RBW
- (d) Sweep time = auto couple.
- (e) Detector = peak.
- (f) Trace mode = max hold.
- (g) Allow trace to fully stabilize.
- (h) Use peak marker function to determine the peak amplitude level.

section 8.3.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- (a) Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
- (b) Set the VBW $\geq 3 \times$ RBW
- (c) Set the span $\geq 1.5 \times$ OBW.
- (d) Detector = RMS.
- (e) Sweep time = auto couple.
- (f) trigger = free run.
- (g) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\geq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- (h) Trace average at least 100 traces in power averaging (rms) mode.
- (i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

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12.2 Test Result:

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11b	2412	1.31	≤30	PASS
	2437	5.00	≤30	PASS
	2462	3.12	≤30	PASS
11g	2412	2.43	≤30	PASS
	2437	5.62	≤30	PASS
	2462	4.11	≤30	PASS
11n20	2412	2.31	≤30	PASS
	2437	5.50	≤30	PASS
	2462	3.72	≤30	PASS

Maximum output power= Conducted output power(Including the Cable loss)+ Duty Cycle Factor

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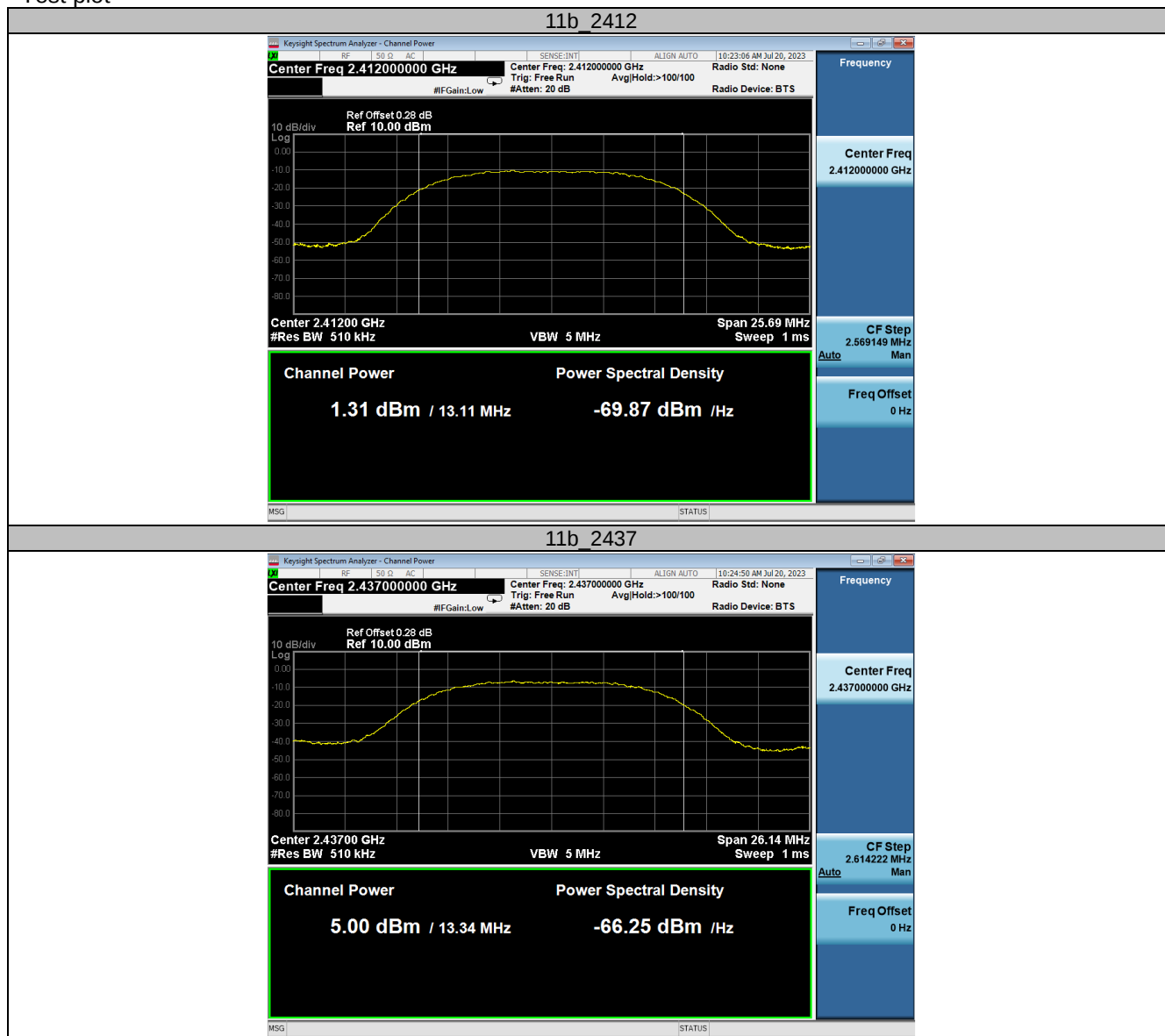
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Test Report

No.: AJT230703087E-1

Test plot



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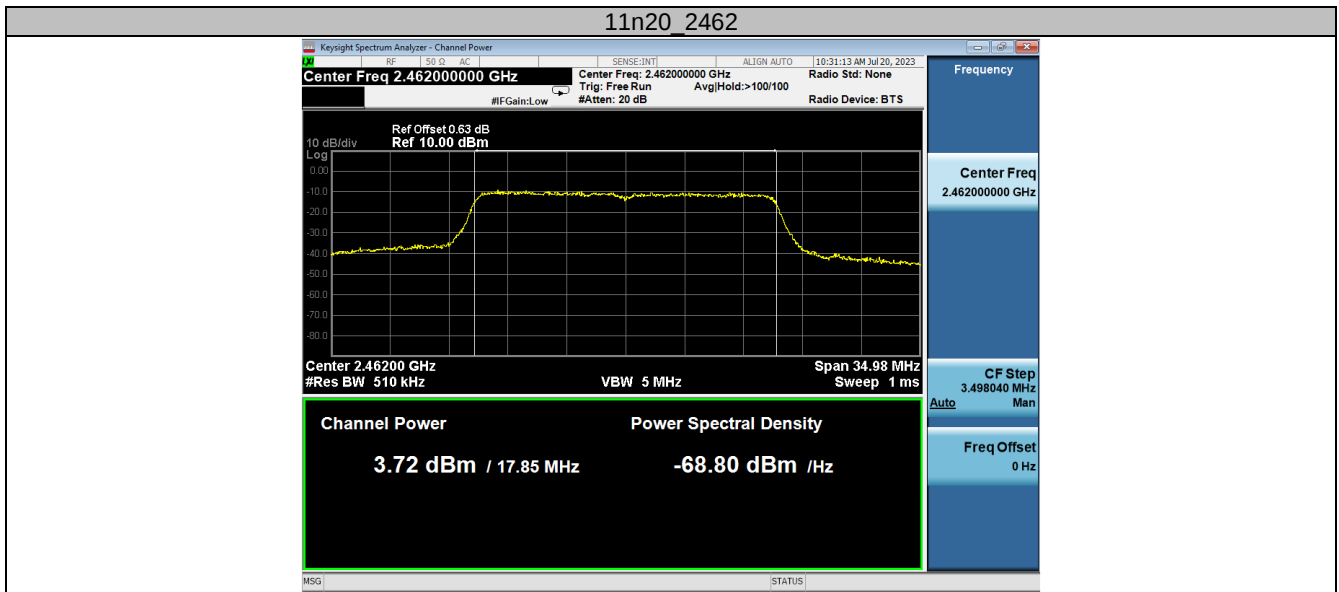
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Test Report

No.: AJT230703087E-1

13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

13.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

1.Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2.Set the spectrum analyzer: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. $\text{VBW} \geq [3 \times \text{RBW}]$. , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.

3.Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

13.2 Test Result:

TestMode	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	2412	-24.14	≤ 8	PASS
	2437	-18.99	≤ 8	PASS
	2462	-21.43	≤ 8	PASS
11g	2412	-25.63	≤ 8	PASS
	2437	-21.5	≤ 8	PASS
	2462	-22.77	≤ 8	PASS
11n20	2412	-26.33	≤ 8	PASS
	2437	-21.5	≤ 8	PASS
	2462	-23.63	≤ 8	PASS

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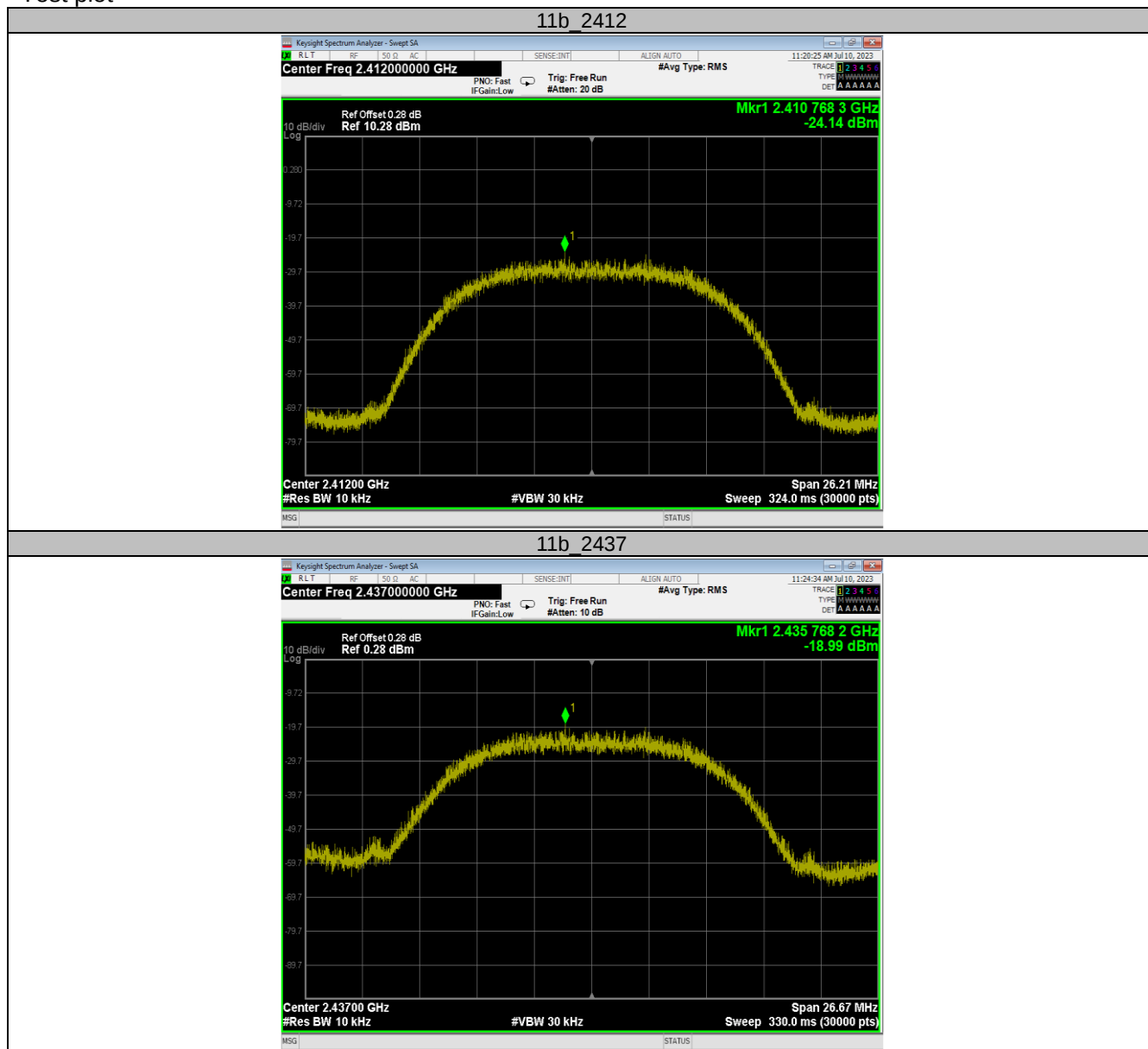
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Tel: 86-754-85860999 Fax: 86-754-86984098 Website: www.ajtesting.com Email: info@ajtesting.com

Test Report

No.: AJT230703087E-1

Test plot



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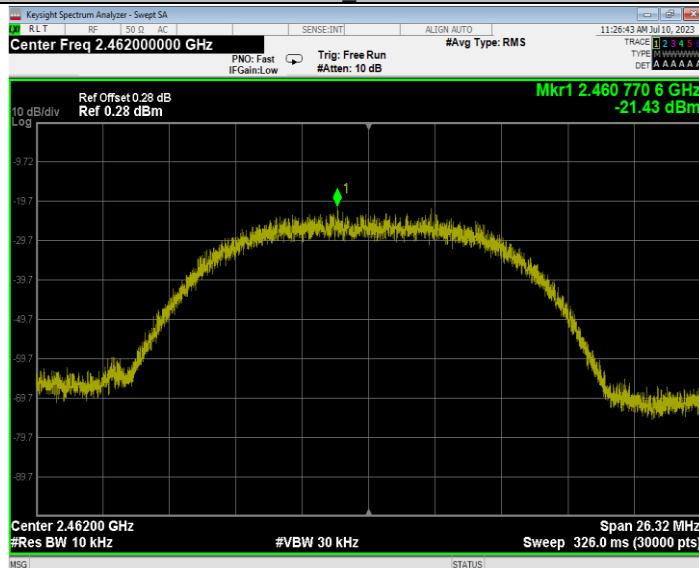
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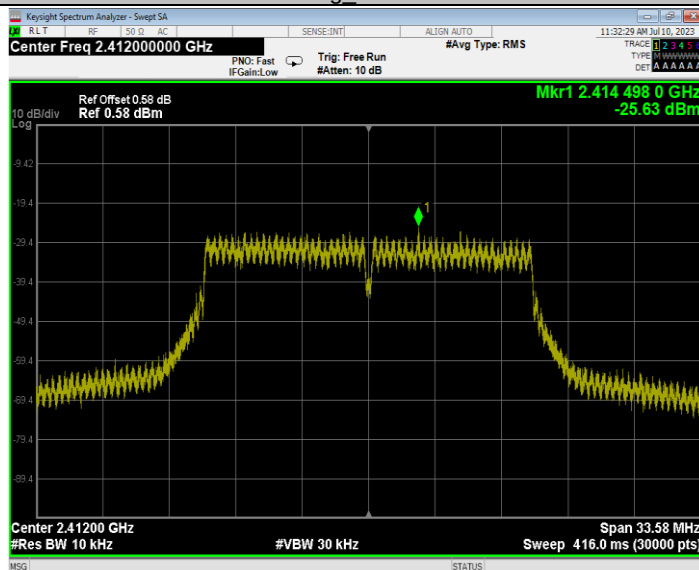
Test Report

No.: AJT230703087E-1

11b 2462



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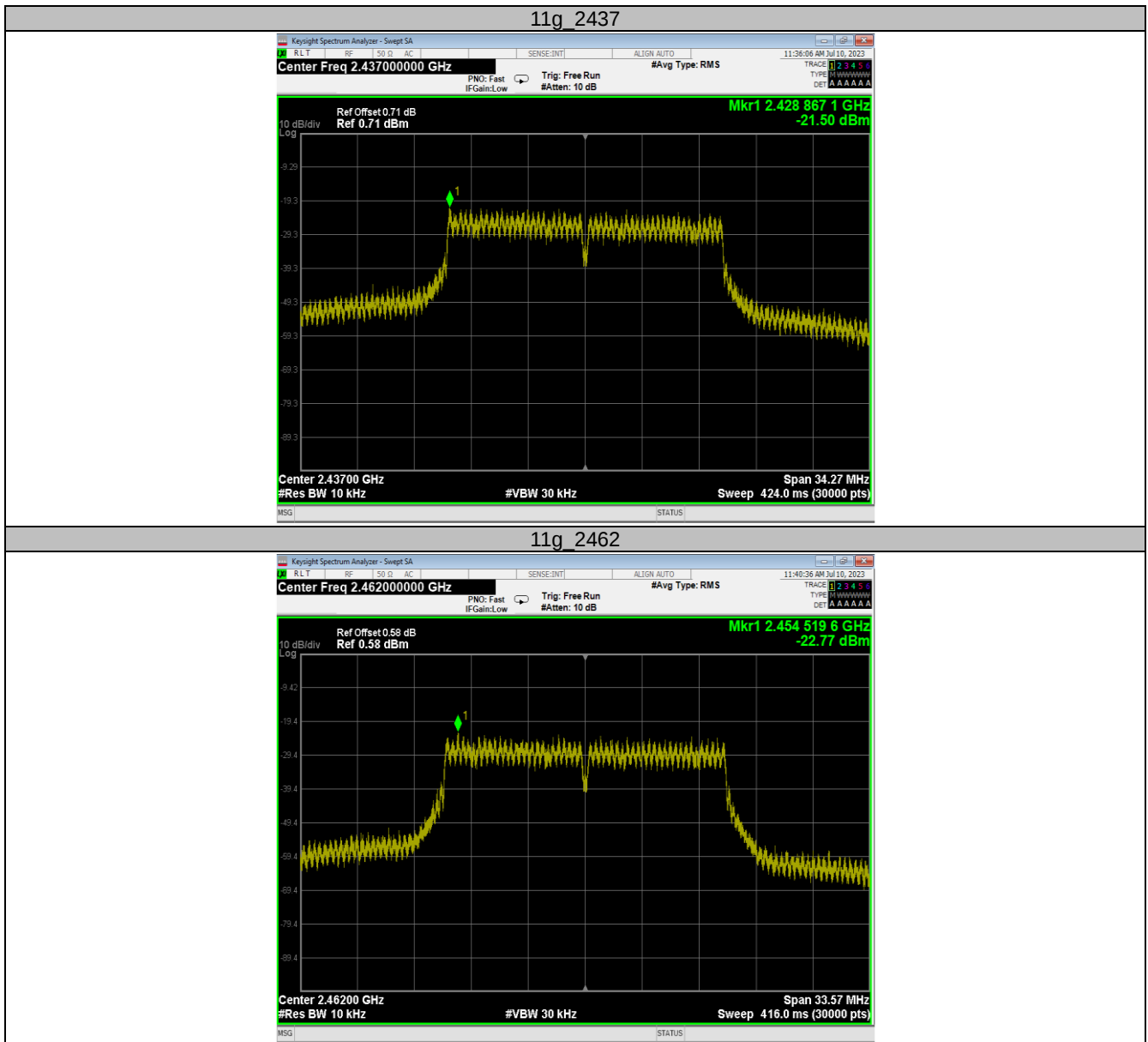
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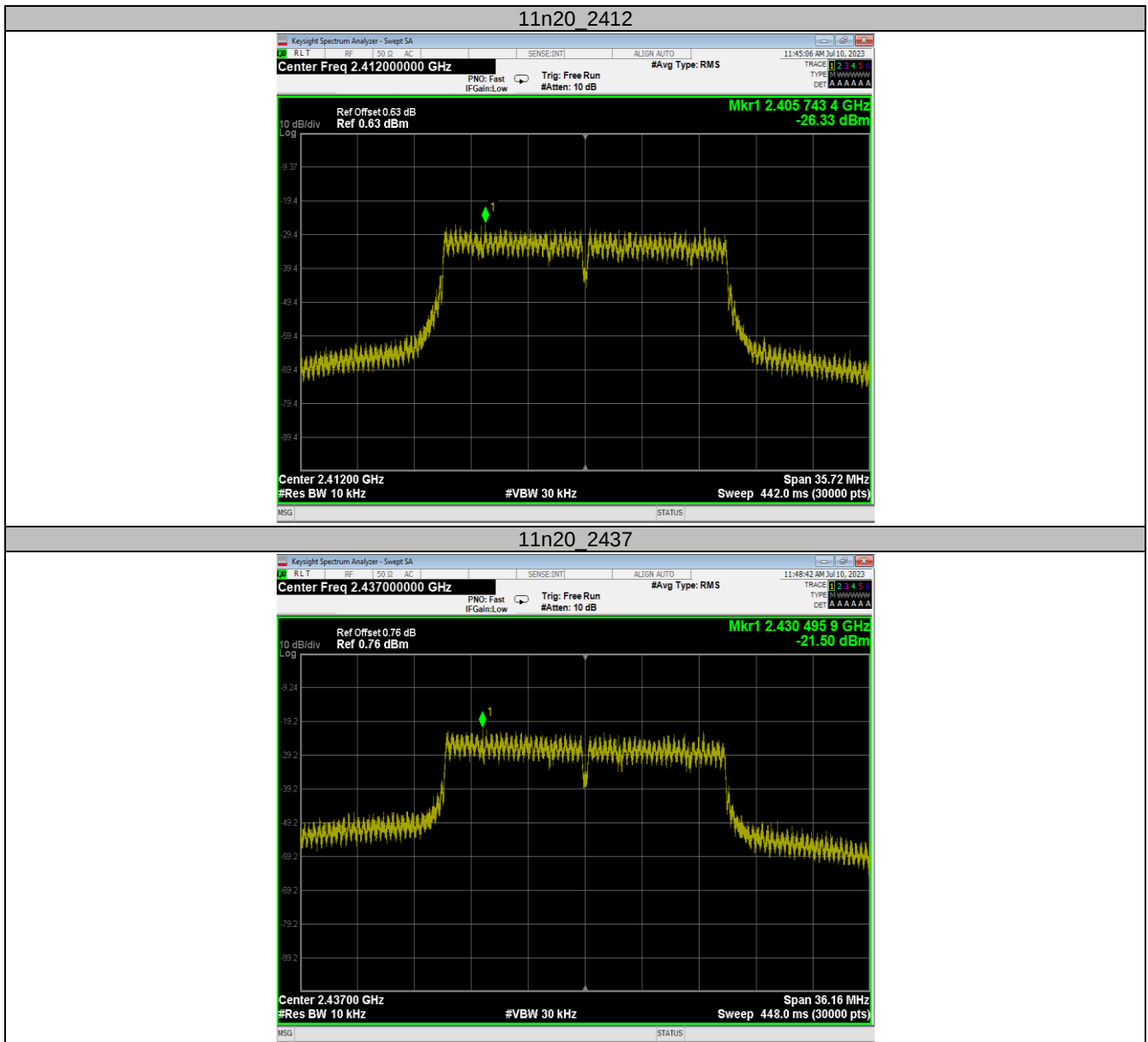
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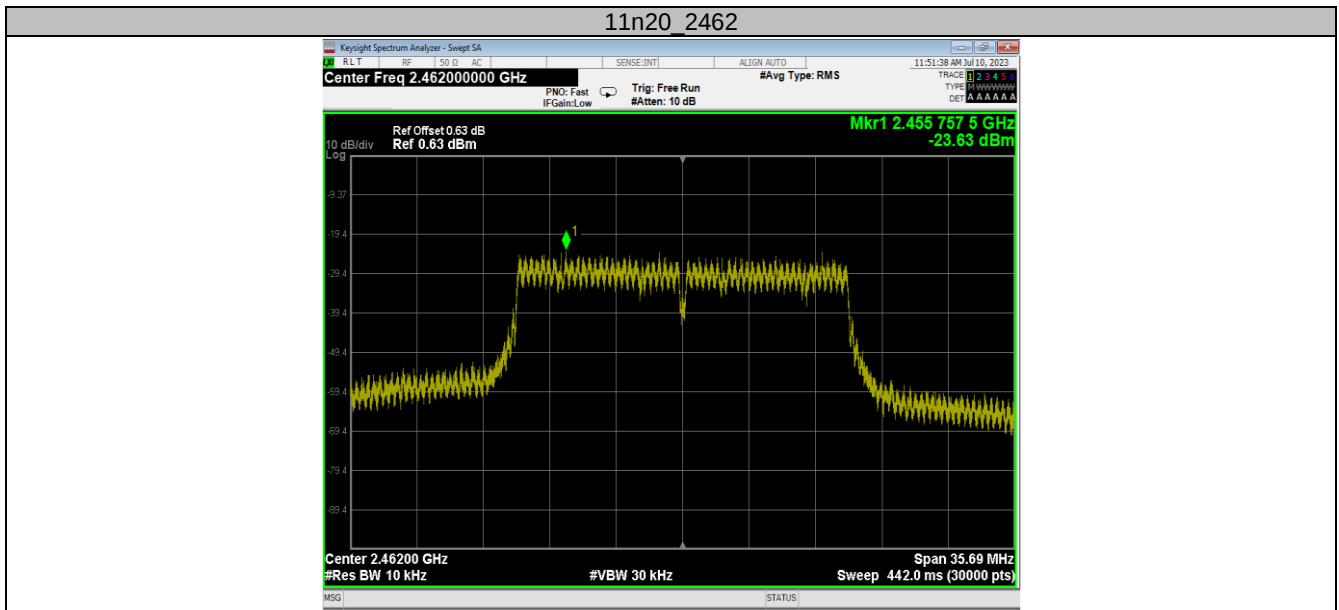
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Test Report

No.: AJT230703087E-1

14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has an integrated antenna fulfill the requirement of this section.

15 RF Exposure

Remark: refer to MPE test report: AJT230703087E-2

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Test Report

No.: AJT230703087E-1

16 Test Photographs

Referring to – “Test Setup Photos of SMART BIRD FEEDER”.

17 Photos of the EUT

Referring to – “External Photos of SMART BIRD FEEDER” and “Internal Photos of SMART BIRD FEEDER”.

18 Manufacturer/ Approval Holder Declaration

The following identical model(s):

PCD002, PCD003, PCD004, PCD005, PCD006, PCD007, PCD008, PCD009, PCD010,
PCD011, PCD012, PCD013, PCD014, PCD015, PCD016, PCD017, PCD018, PCD019,
PCD020

Belong to the tested device:

Product Description: SMART BIRD FEEDER
Model No.: PCD001

END OF TEST REPORT

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