



Report No.: TWN2606665-02E

Applicant: Shenzhen TongJiu Electronics Co., Ltd

Product: TV BOX

Model No.: 1097, S1, 1*** (*Remark: "*"denotes 0 to 9 or A to Z or Blank, In accordance with buyer coder, the product have no differences at all.)

Trademark: TONJIU, STREAMO

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By:

Terry Tang



Terry Tang

Manager

Dated: July 16, 2026

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The 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. Registration No.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

FCC Designation Number: CN1251

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Shenzhen TongJiu Electronics Co., Ltd
Address: No. 15, JiuJiu Industrial Zone, Xihuan Road, Bao'an District, ShenZhen

1.3 Description of EUT

Product: TV BOX
Manufacturer: Shenzhen TongJiu Electronics Co., Ltd
Address: No. 15, JiuJiu Industrial Zone, Xihuan Road, Bao'an District, ShenZhen
Brand Name: TONJIU, STREAMO
Model Number: 1097
Additional Model Number: S1, 1*** (*Remark: "*"denotes 0 to 9 or A to Z or Blank, In accordance with buyer coder, the product have no differences at all.)
Hardware Version: IP1437-MV110-01(A)
Software Version: 1109.3201.SW1003
Serial No.: S1260600001
Type of Modulation GFSK (Bluetooth BLE)
Frequency range 2402-2480MHz
Frequency Selection By software
Channel Number 40
Rating: Input: DC12V, 1A
Power Supply: Model: TEKA-AB1B120100US
Input: 100-240V~, 50/60Hz, 0.35A MAX; Output: DC12V, 1A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2026-06-30 to 2026-07-16

1.6 Test Uncertainty

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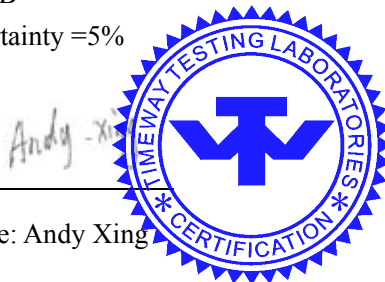


Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing



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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11 2026-07-08	2026-07-10 2027-07-07
LISN	R&S	EZH3-Z5	100294	2025-07-11 2026-07-08	2026-07-10 2027-07-07
LISN	R&S	EZH3-Z5	100253	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Loop Antenna	EMCO	6507	00078608	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Spectrum	R&S	FSIQ26	100292	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-11 2025-07-17	2026-07-10 2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-11 2025-07-17	2026-07-10 2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Power sensor	Anritsu	MA2491A	32263	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESVB	826156/011	2025-07-11 2026-07-08	2026-07-10 2027-07-07
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Spectrum	RS	FSP	1164.4391.38	2025-07-11 2026-07-08	2026-07-10 2027-07-07
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11 2026-07-08	2026-07-10 2027-07-07
RF Cable	Zhengdi	7m	--	2025-07-11 2026-07-08	2026-07-10 2027-07-07
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11 2026-07-08	2026-07-10 2027-07-07

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Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11 2026-07-08	2026-07-10 2027-07-07
LISN	SCHAFFNER	NNB42	00012	2025-07-11 2026-07-08	2026-07-10 2027-07-07
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11 2026-07-08	2026-07-10 2027-07-07
LISN	R&S	EZH3-Z5	100294	2025-07-11 2026-07-08	2026-07-10 2027-07-07
6dB Attenuator	Anritsu	MP721B	--	2025-07-17 2026-07-08	2026-07-16 2027-07-07

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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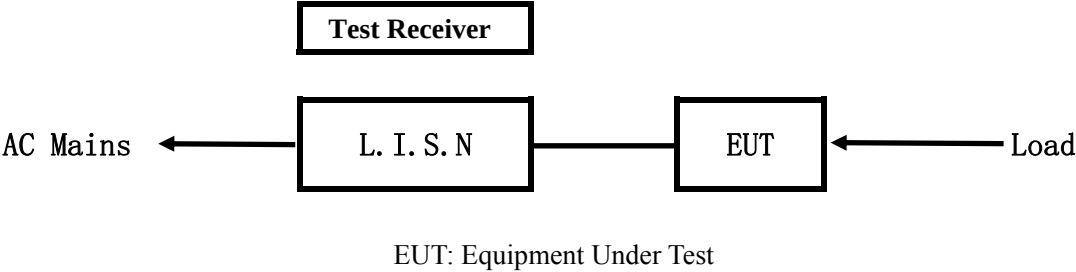
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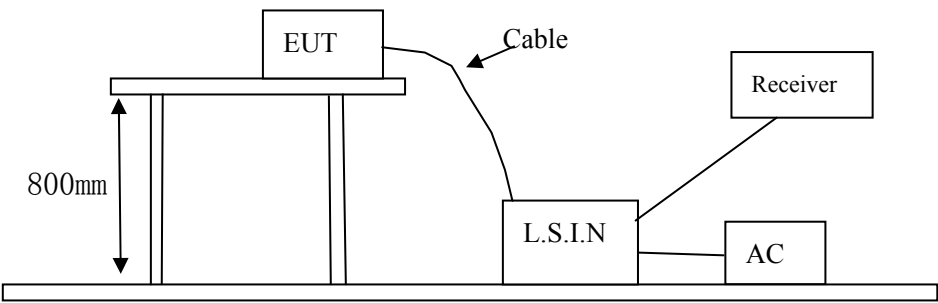
5.Power Line Conducted Emission Test

5.1 Schematics of the test



5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
Test Voltage: 120V~, 60Hz
Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer		Model	FCC ID
TV BOX	Shenzhen TongJiu Electronics Co., Ltd		1097, S1, 1*** (*Remark: “*”denotes 0 to 9 or A to Z or Blank, In accordance with buyer coder, the product have no differences at all.)	2BWWI-TJ1097S1

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Flat Panel Monitor	DELL	U2720QM	100-240V~, 50/60Hz, 2.5A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

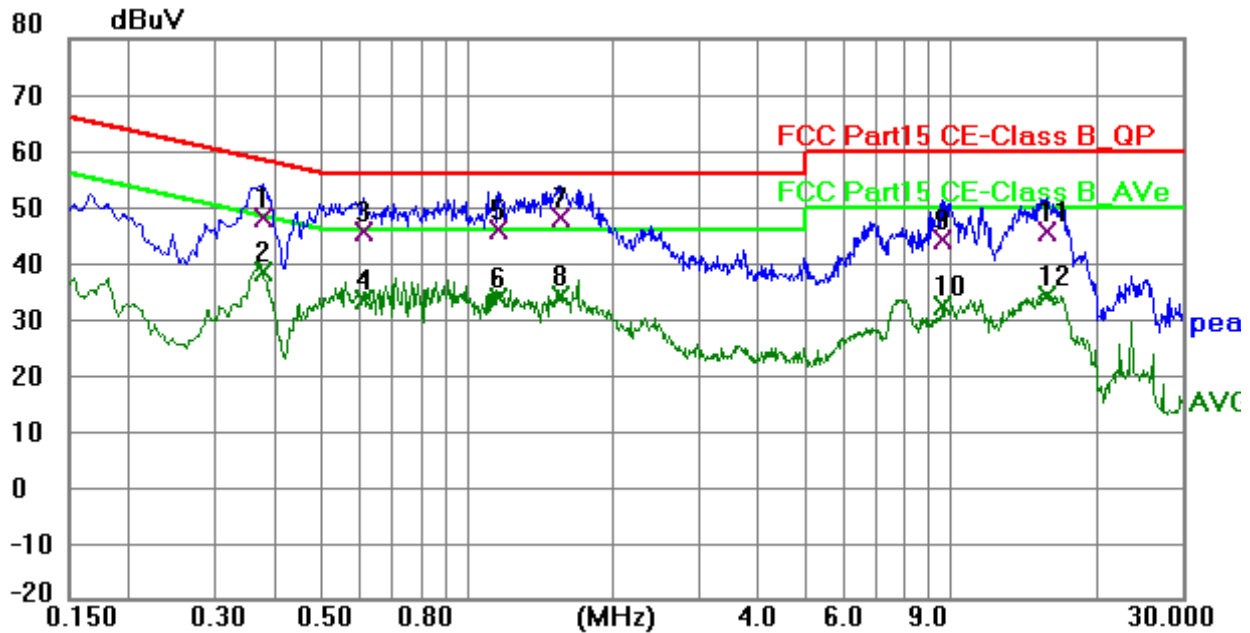
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3771	37.85	10.27	48.12	58.34	-10.22	QP	P
2	0.3771	28.13	10.27	38.40	48.34	-9.94	AVG	P
3	0.6100	35.17	10.38	45.55	56.00	-10.45	QP	P
4	0.6100	22.92	10.38	33.30	46.00	-12.70	AVG	P
5	1.1620	35.37	10.36	45.73	56.00	-10.27	QP	P
6	1.1620	23.56	10.36	33.92	46.00	-12.08	AVG	P
7	1.5620	37.63	10.28	47.91	56.00	-8.09	QP	P
8	1.5620	23.99	10.28	34.27	46.00	-11.73	AVG	P
9	9.6300	33.83	10.35	44.18	60.00	-15.82	QP	P
10	9.6300	21.96	10.35	32.31	50.00	-17.69	AVG	P
11	15.8580	35.22	10.43	45.65	60.00	-14.35	QP	P
12	15.8580	23.64	10.43	34.07	50.00	-15.93	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

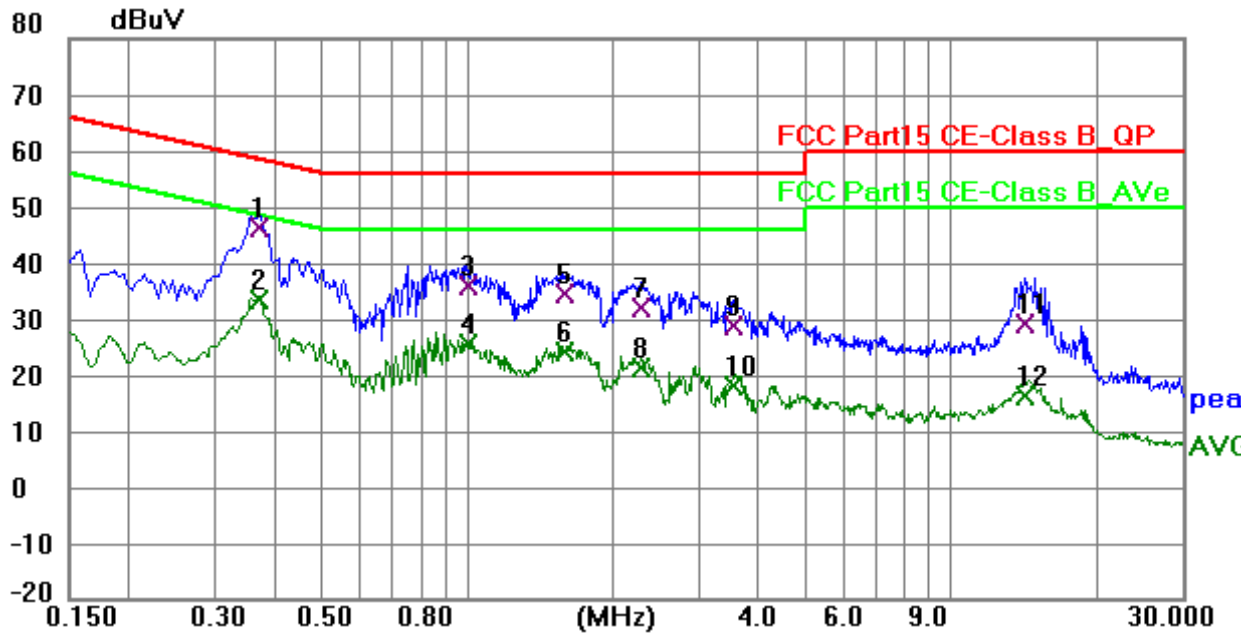
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.3692	35.82	10.27	46.09	58.52	-12.43	QP	P
2	0.3692	23.09	10.27	33.36	48.52	-15.16	AVG	P
3	0.9974	25.36	10.40	35.76	56.00	-20.24	QP	P
4	0.9974	14.96	10.40	25.36	46.00	-20.64	AVG	P
5	1.5854	24.12	10.27	34.39	56.00	-21.61	QP	P
6	1.5854	13.83	10.27	24.10	46.00	-21.90	AVG	P
7	2.2770	21.85	10.21	32.06	56.00	-23.94	QP	P
8	2.2770	11.05	10.21	21.26	46.00	-24.74	AVG	P
9	3.5390	18.41	10.28	28.69	56.00	-27.31	QP	P
10	3.5390	7.66	10.28	17.94	46.00	-28.06	AVG	P
11	14.2048	18.52	10.42	28.94	60.00	-31.06	QP	P
12	14.2048	5.97	10.42	16.39	50.00	-33.61	AVG	P

Note: Margin=Reading level+ Factor–Limit

Factor=LISN Factor + Cable Factor

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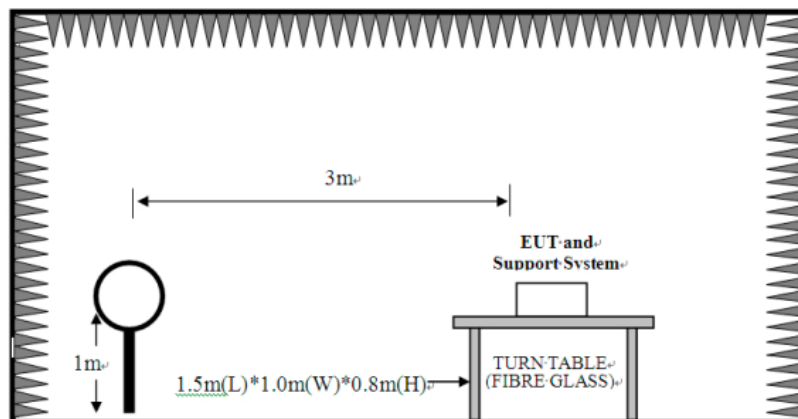
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



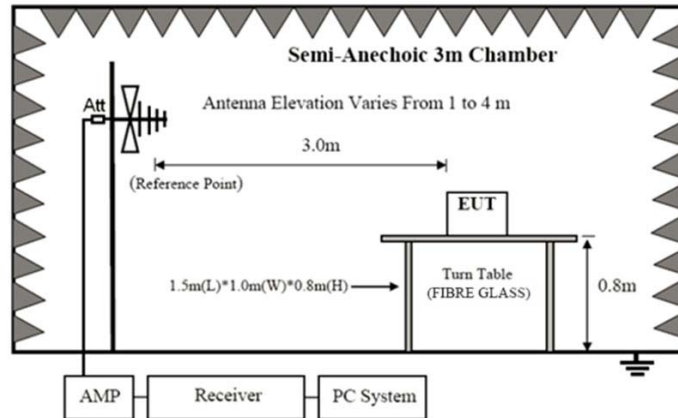
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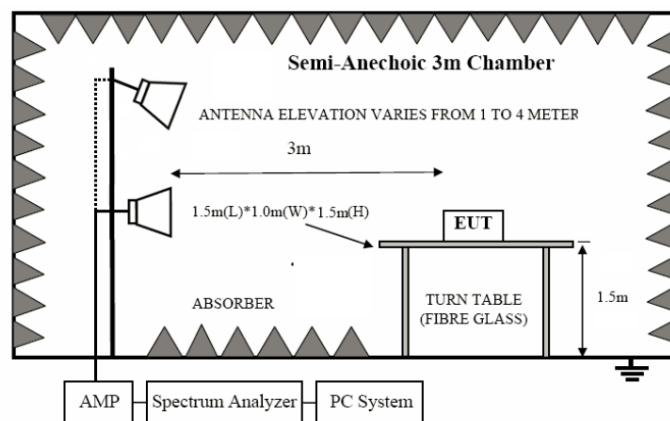
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT
Same as section 5.3 of this report

6.3 EUT Operating Condition
Same as section 5.4 of this report.

6.4 Radiated Emission Limit
All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2440MHz) was the worst case.

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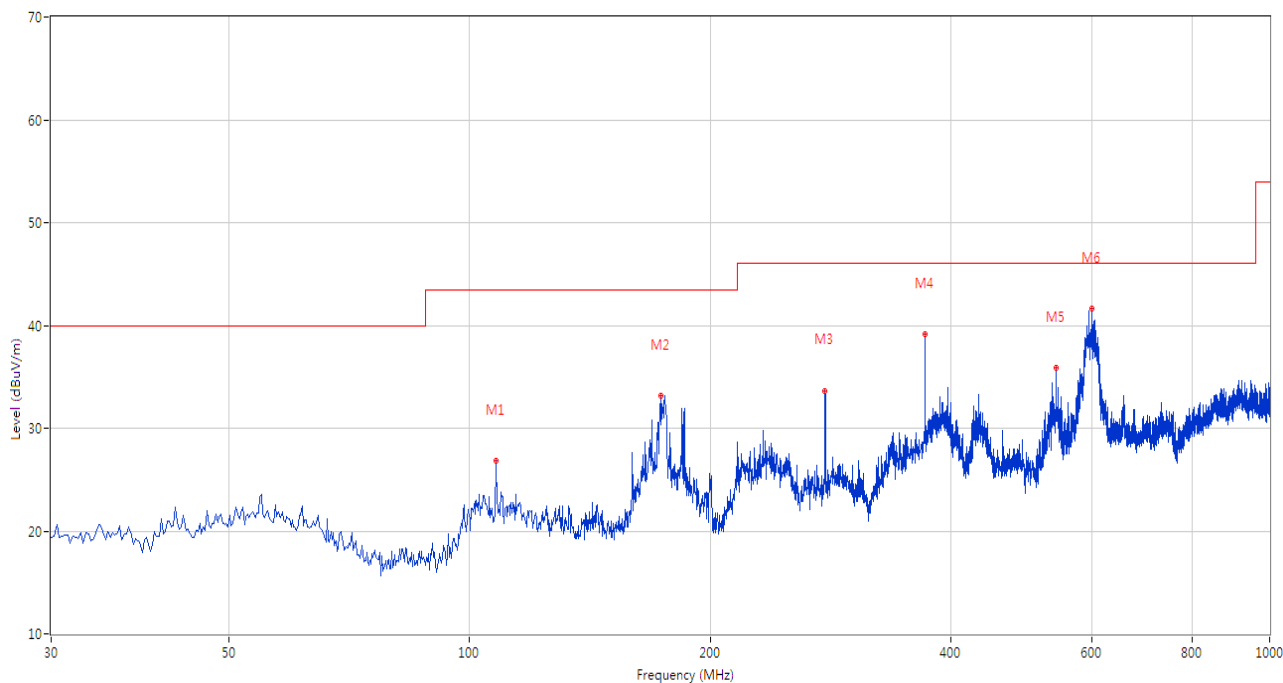


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting
Test Channel: Middle (2440MHz)
Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	107.842	26.82	-9.89	43.5	16.68	Peak	350.00	100	Horizontal	Pass
2	173.560	33.18	-11.26	43.5	10.32	Peak	122.00	100	Horizontal	Pass
3	278.320	33.66	-8.86	46.0	12.34	Peak	234.00	100	Horizontal	Pass
4	371.198	39.12	-5.03	46.0	6.88	Peak	313.00	100	Horizontal	Pass
5	541.433	35.91	-3.94	46.0	10.09	Peak	136.00	100	Horizontal	Pass
6	600.118	41.61	-1.53	46.0	4.39	Peak	172.00	100	Horizontal	Pass

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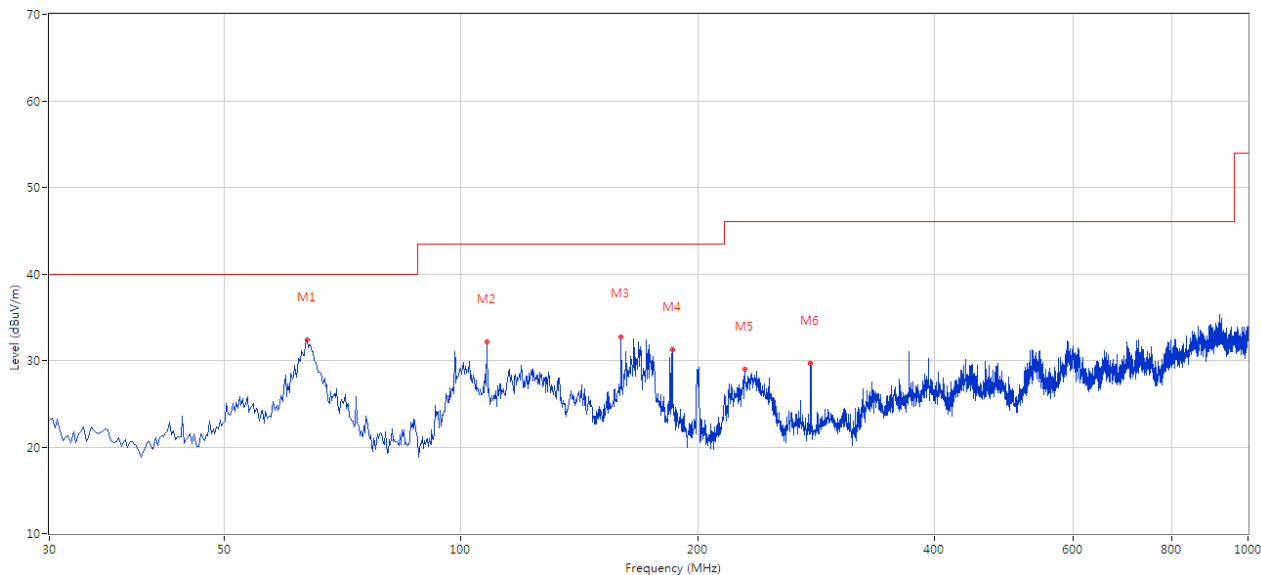


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2440MHz)
Results: **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	63.708	32.37	-9.64	40.0	7.63	Peak	104.00	100	Vertical	Pass
2	107.842	32.13	-9.89	43.5	11.37	Peak	360.00	100	Vertical	Pass
3	159.738	32.76	-13.16	43.5	10.74	Peak	46.00	100	Vertical	Pass
4	185.685	31.27	-10.68	43.5	12.23	Peak	84.00	100	Vertical	Pass
5	229.335	28.94	-9.11	46.0	17.06	Peak	88.00	100	Vertical	Pass
6	278.320	29.68	-8.86	46.0	16.32	Peak	54.00	100	Vertical	Pass

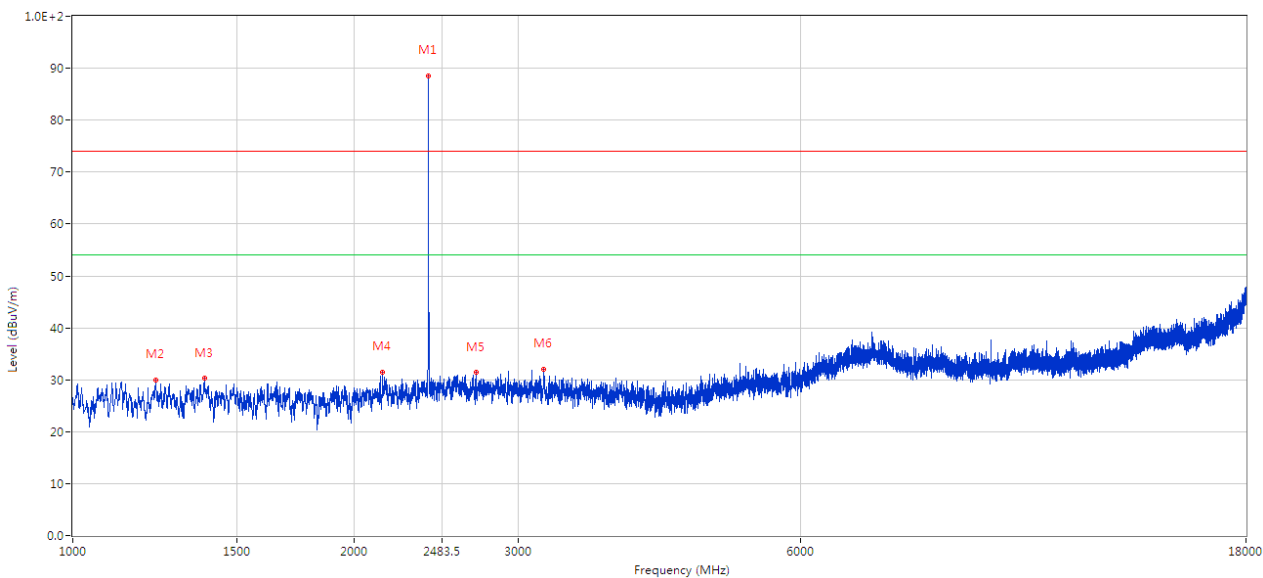
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal

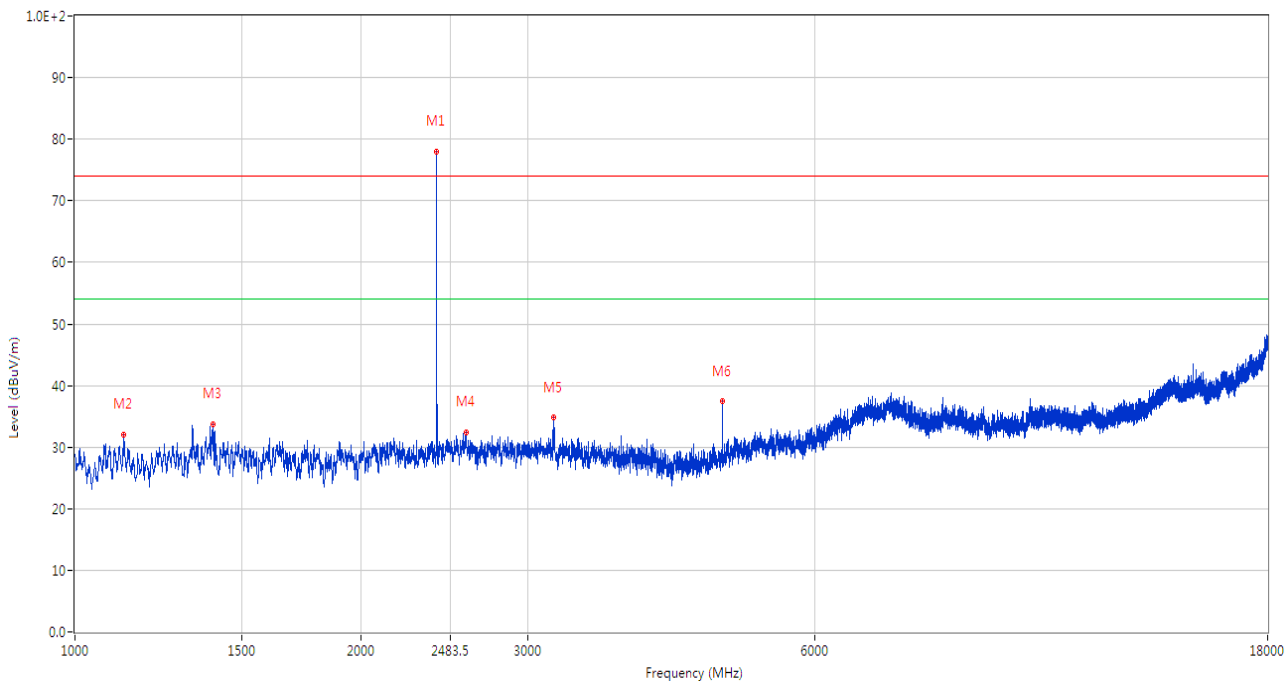


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402	88.59	-14.79	74.0	-14.59	Peak	339.00	100	Horizontal	N/A
2	1226.100	29.95	-20.49	74.0	44.05	Peak	350.00	100	Horizontal	Pass
3	1384.200	30.29	-19.43	74.0	43.71	Peak	331.00	100	Horizontal	Pass
4	2145.800	31.50	-15.73	74.0	42.50	Peak	359.00	100	Horizontal	Pass
5	2700.000	31.36	-14.72	74.0	42.64	Peak	354.00	100	Horizontal	Pass
6	3192.150	32.10	-13.74	74.0	41.90	Peak	331.00	100	Horizontal	Pass

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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2402	77.99	-14.79	74.0	-3.99	Peak	285.00	100	Vertical	N/A
2	1125.800	32.04	-20.92	74.0	41.96	Peak	263.00	100	Vertical	Pass
3	1396.950	33.80	-19.44	74.0	40.20	Peak	51.00	100	Vertical	Pass
4	2581.850	32.43	-13.87	74.0	41.57	Peak	85.00	100	Vertical	Pass
5	3187.050	34.80	-13.75	74.0	39.20	Peak	29.00	100	Vertical	Pass
6	4803.750	37.41	-11.87	74.0	36.59	Peak	282.00	100	Vertical	Pass

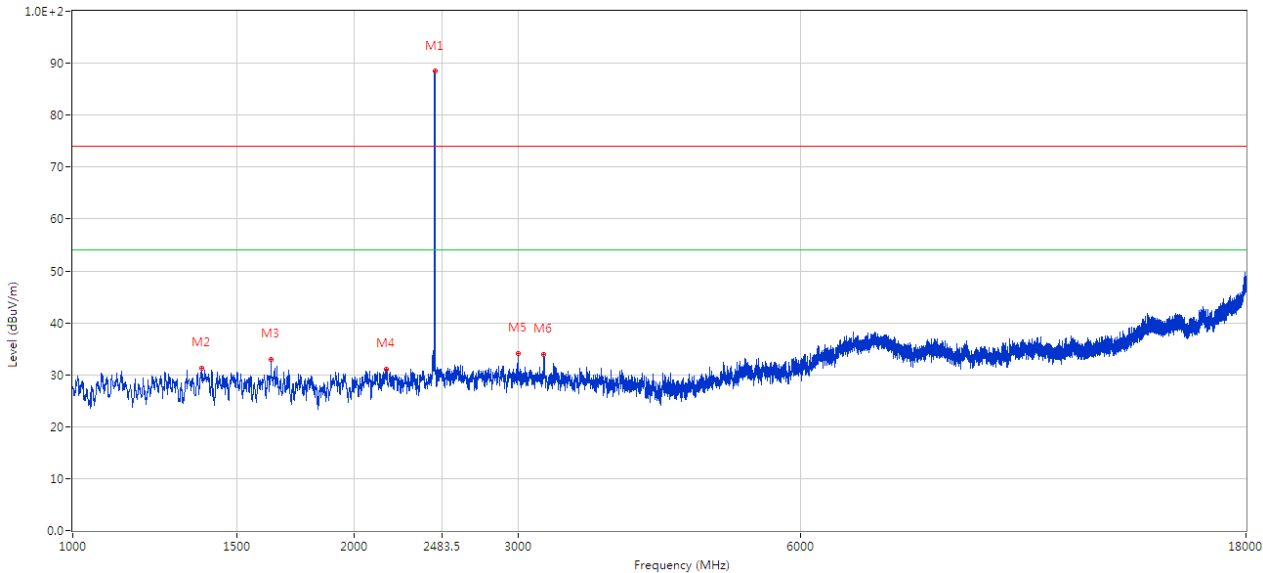
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440	88.59	-14.77	74.0	-14.59	Peak	337.00	100	Horizontal	N/A
2	1372.300	31.31	-19.41	74.0	42.69	Peak	38.00	100	Horizontal	Pass
3	1629.850	32.99	-18.46	74.0	41.01	Peak	192.00	100	Horizontal	Pass
4	2167.050	31.15	-15.69	74.0	42.85	Peak	342.00	100	Horizontal	Pass
5	2993.250	34.10	-14.09	74.0	39.90	Peak	35.00	100	Horizontal	Pass
6	3188.750	33.95	-13.74	74.0	40.05	Peak	269.00	100	Horizontal	Pass

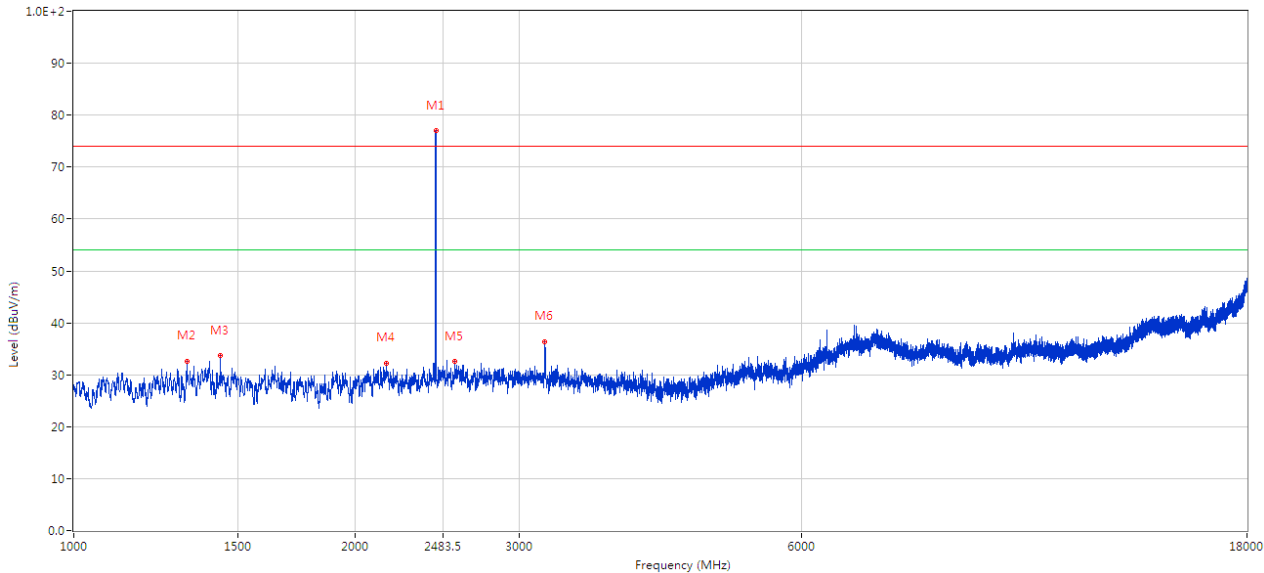
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2440	77.10	-14.77	74.0	-3.10	Peak	284.00	100	Vertical	N/A
2	1320.450	32.60	-19.69	74.0	41.40	Peak	49.00	100	Vertical	Pass
3	1434.350	33.67	-18.81	74.0	40.33	Peak	221.00	100	Vertical	Pass
4	2160.250	32.25	-15.70	74.0	41.75	Peak	128.00	100	Vertical	Pass
5	2554.650	32.50	-13.86	74.0	41.50	Peak	23.00	100	Vertical	Pass
6	3190.450	36.35	-13.74	74.0	37.65	Peak	12.00	100	Vertical	Pass

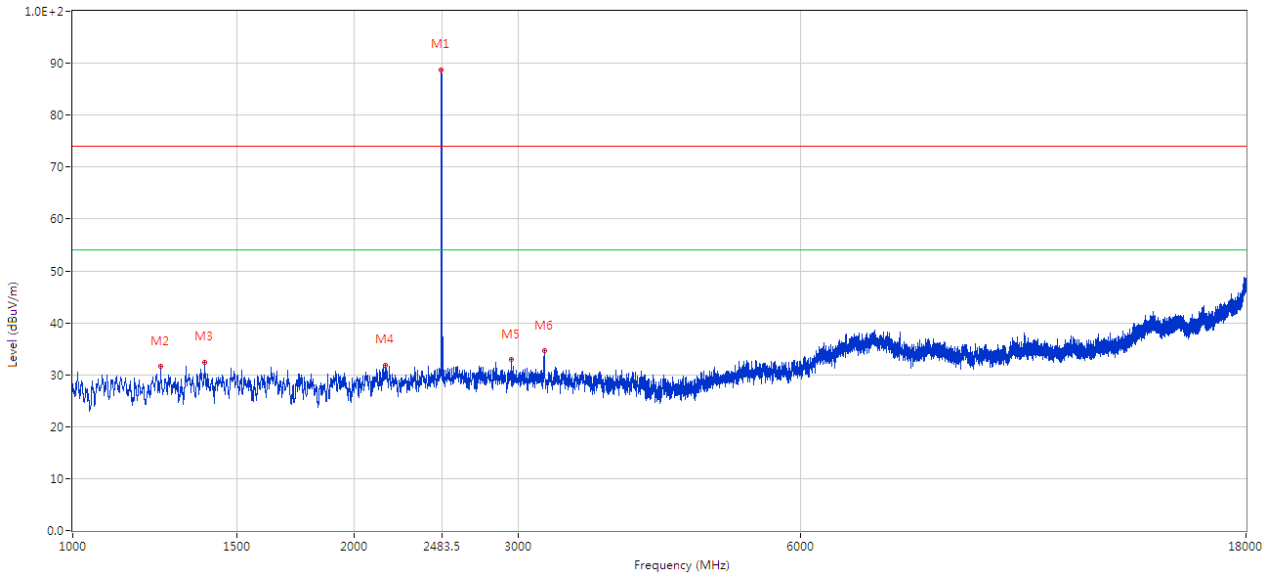
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480	88.72	-14.40	74.0	-14.72	Peak	330.00	100	Horizontal	N/A
2	1241.400	31.56	-20.27	74.0	42.44	Peak	274.00	100	Horizontal	Pass
3	1383.350	32.46	-19.43	74.0	41.54	Peak	93.00	100	Horizontal	Pass
4	2160.250	31.88	-15.70	74.0	42.12	Peak	20.00	100	Horizontal	Pass
5	2944.800	32.92	-13.94	74.0	41.08	Peak	262.00	100	Horizontal	Pass
6	3197.250	34.62	-13.73	74.0	39.38	Peak	167.00	100	Horizontal	Pass

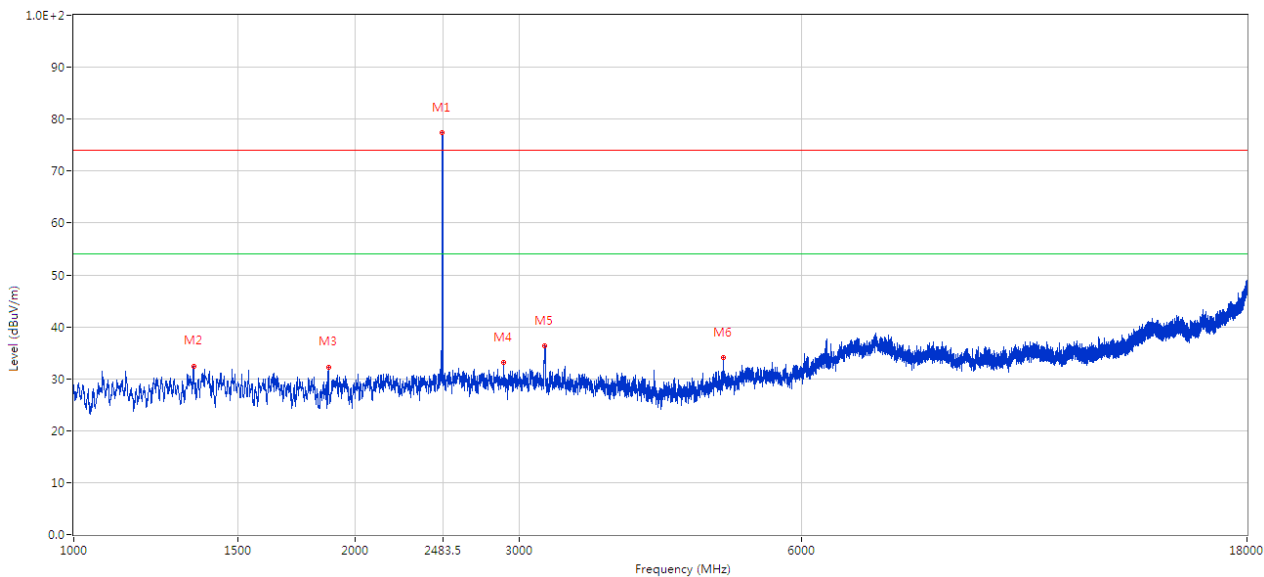
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2480	77.33	-14.40	74.0	-3.33	Peak	279.00	100	Vertical	N/A
2	1345.100	32.42	-19.43	74.0	41.58	Peak	42.00	100	Vertical	Pass
3	1872.100	32.29	-18.24	74.0	41.71	Peak	31.00	100	Vertical	Pass
4	2881.900	33.10	-14.24	74.0	40.90	Peak	44.00	100	Vertical	Pass
5	3187.050	36.27	-13.75	74.0	37.73	Peak	28.00	100	Vertical	Pass
6	4959.300	34.01	-11.25	74.0	39.99	Peak	354.00	100	Vertical	Pass

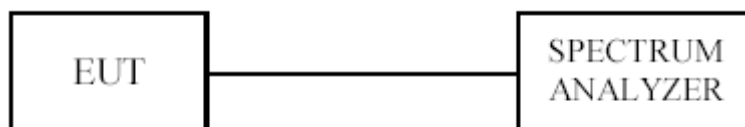
- Note: 1. Results = Reading Level + Factor (Factor= Antenna Factor + Cable Loss-Amplifier)
2. Margin= Results -Limits
3. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
4. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Bandwidth

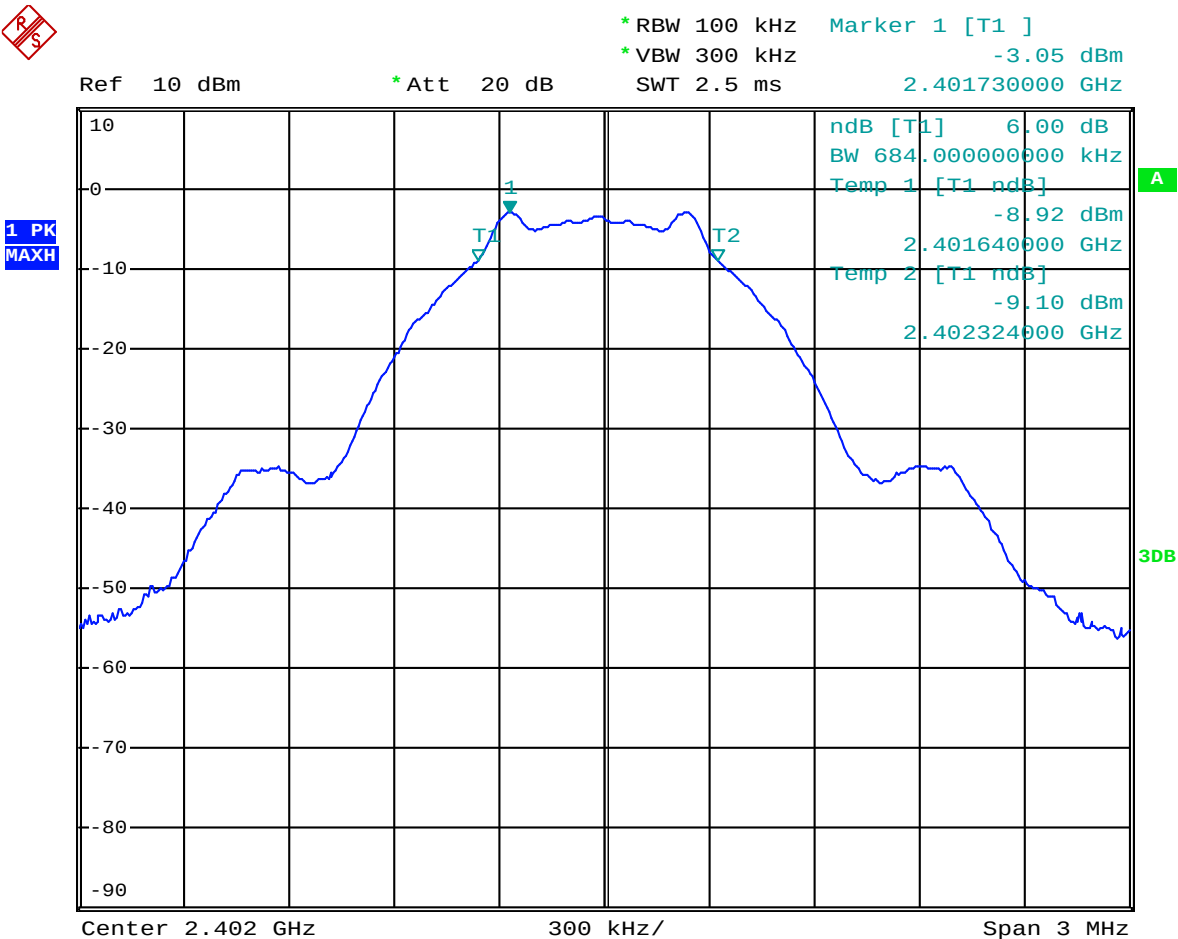
EUT		TV BOX		Model		1097	
Mode		Keep Transmitting		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)		6 dB Bandwidth (kHz)		Minimum Limit (kHz)		Pass/ Fail
Low	2402		684		500		Pass
Middle	2440		684		500		Pass
High	2480		684		500		Pass

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Test Figure:

1. Condition: Low Channel

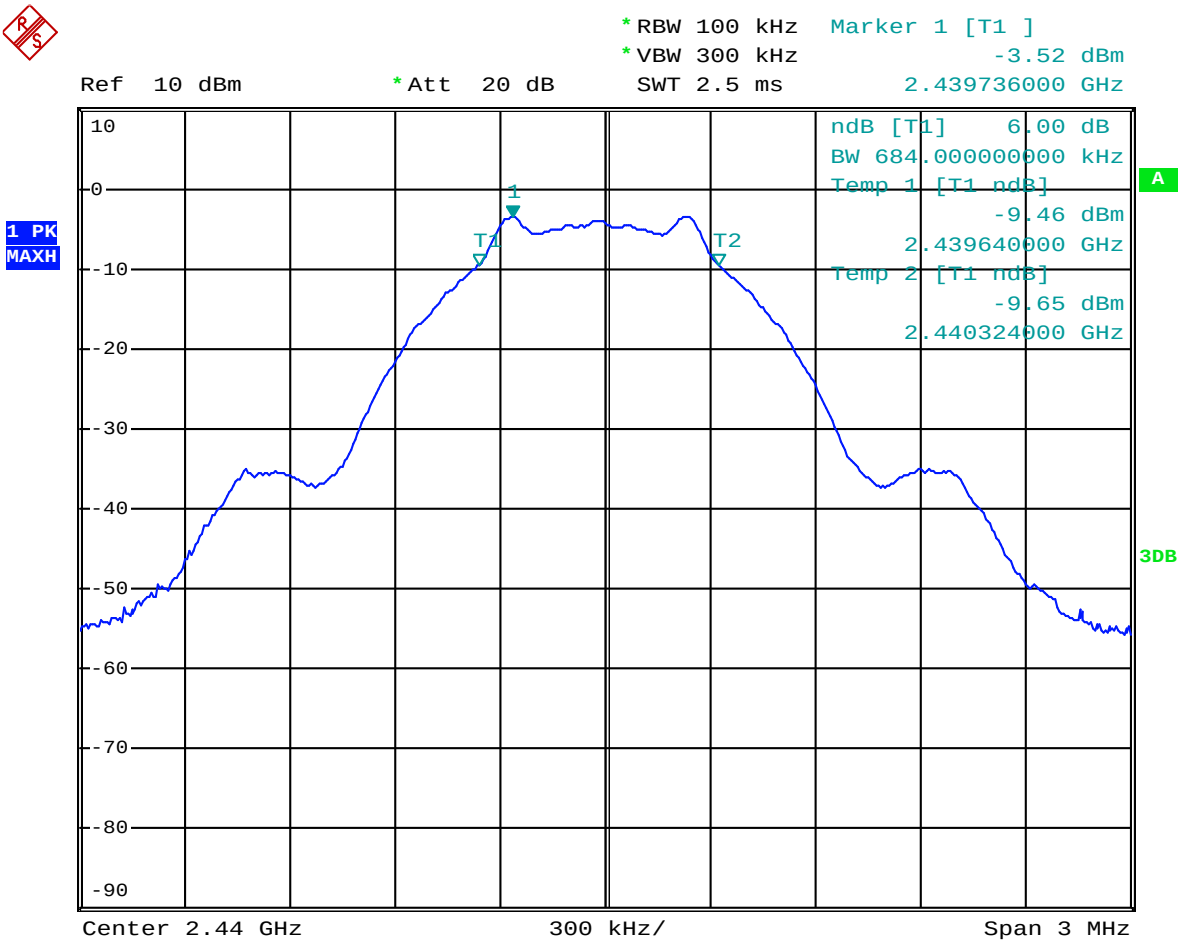


Date: 9.JUL.2026 14:04:08

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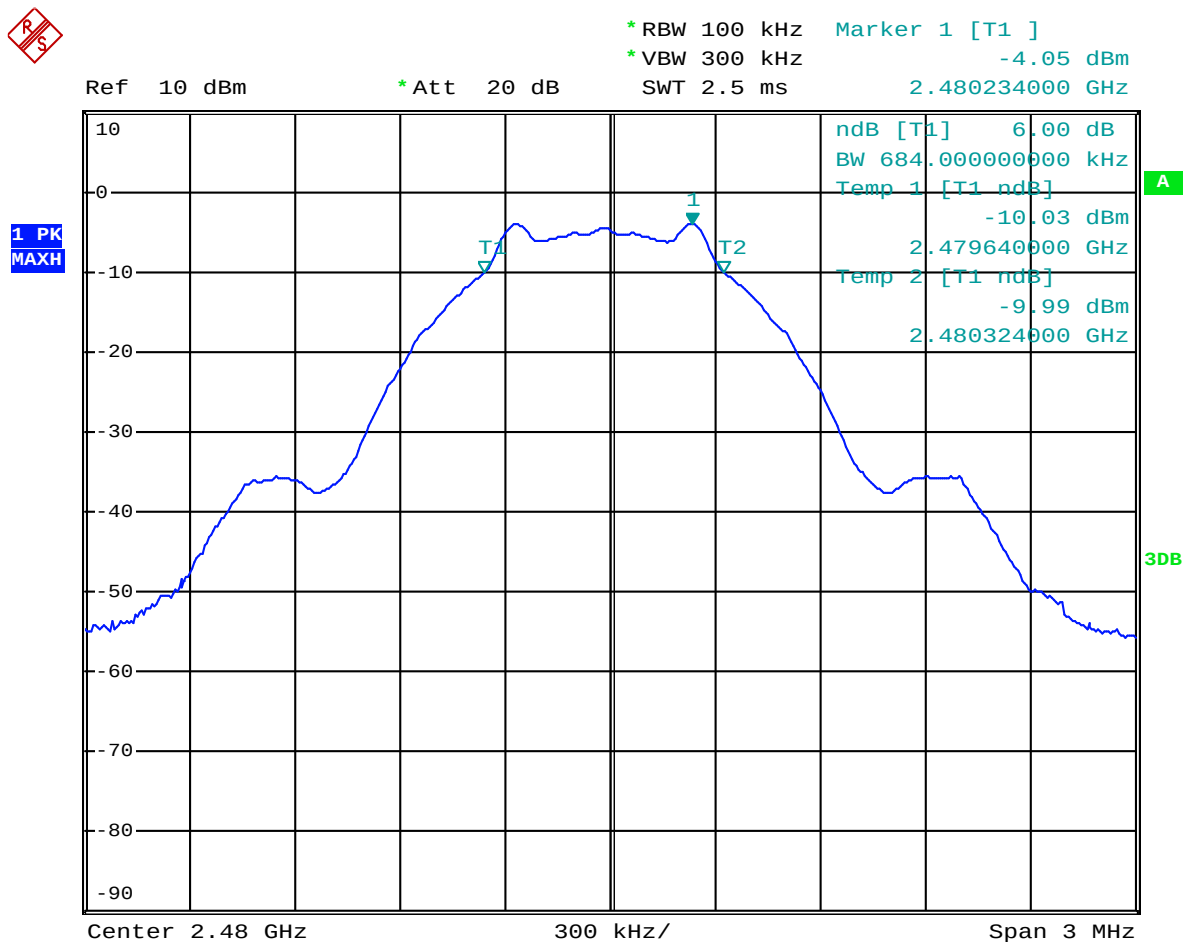
2. Condition: Middle Channel



Date: 9.JUL.2026 14:11:10

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3. High Channel



Date: 9.JUL.2026 14:21:41

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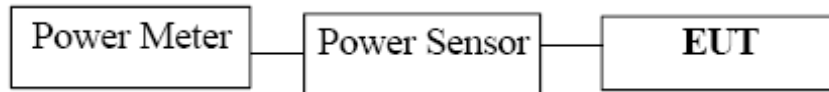
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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4 Test Results

EUT	TV BOX	Model	1097	
Mode	Keep Transmitting	Input Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	-2.84	30	Pass
Middle	2440	-3.32	30	Pass
High	2480	-3.85	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

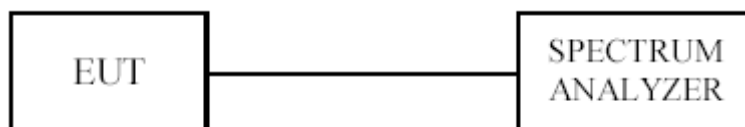
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW $\geq$ 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm/3kHz.

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9.4Test Result

EUT		TV BOX		Model	1097
Mode		Keep Transmitting		Input Voltage	120V~
Temperature		24 deg. C,		Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-8.02	0.2	-7.82	8	Pass
Middle	-8.40	0.2	-8.20	8	Pass
High	-8.62	0.2	-8.42	8	Pass

Note: The result basic equation calculation as follow:

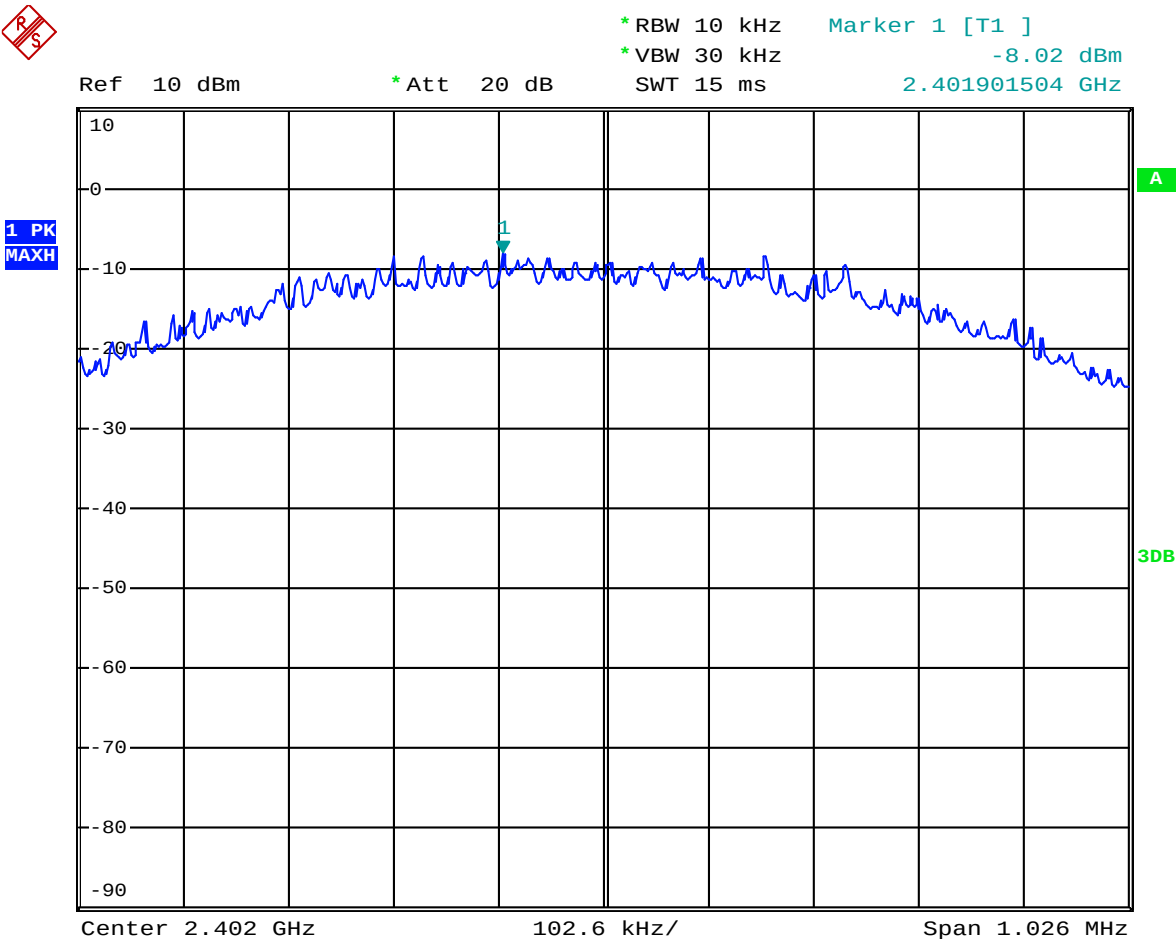
$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

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Test Figure:

1. Condition: Low Channel

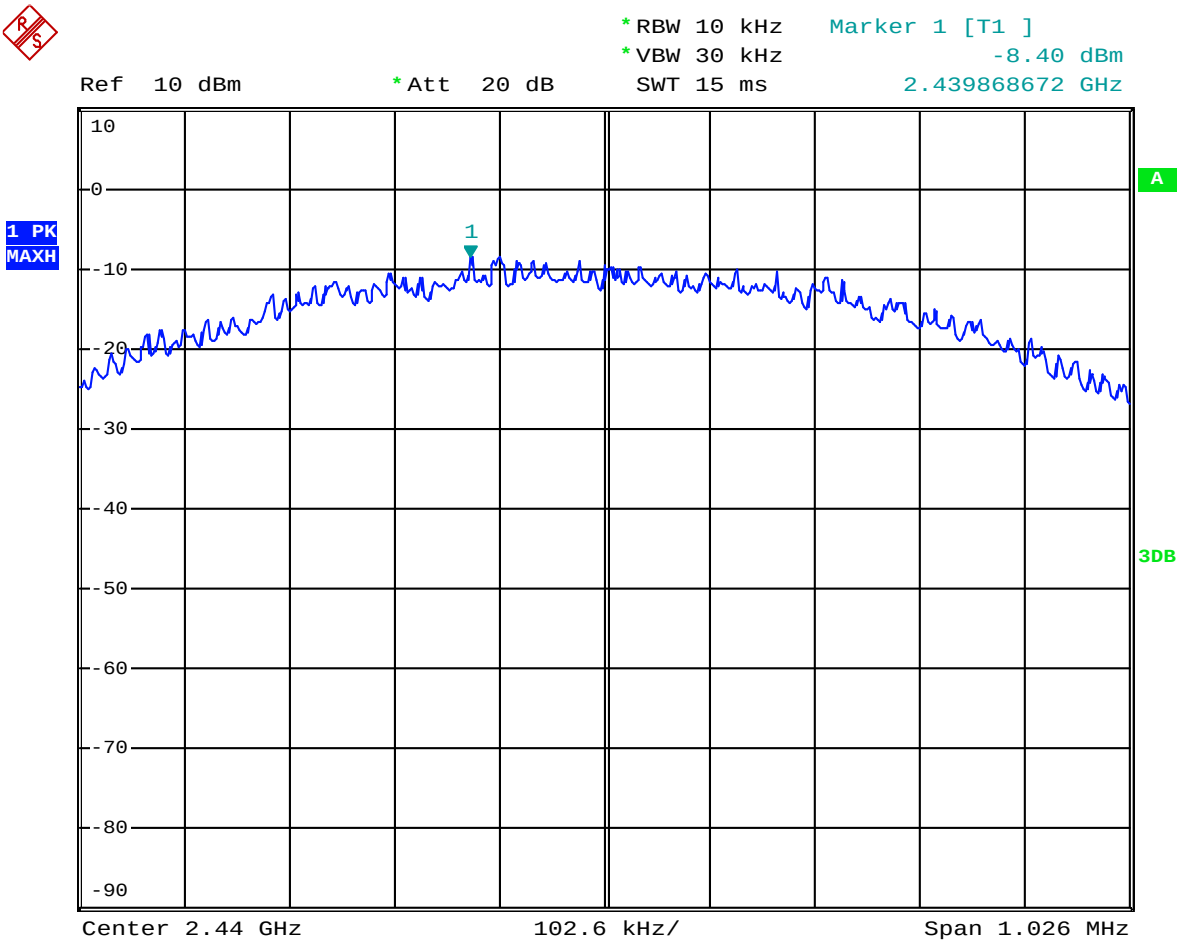


Date: 9.JUL.2026 14:24:23

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2. Condition: Middle Channel

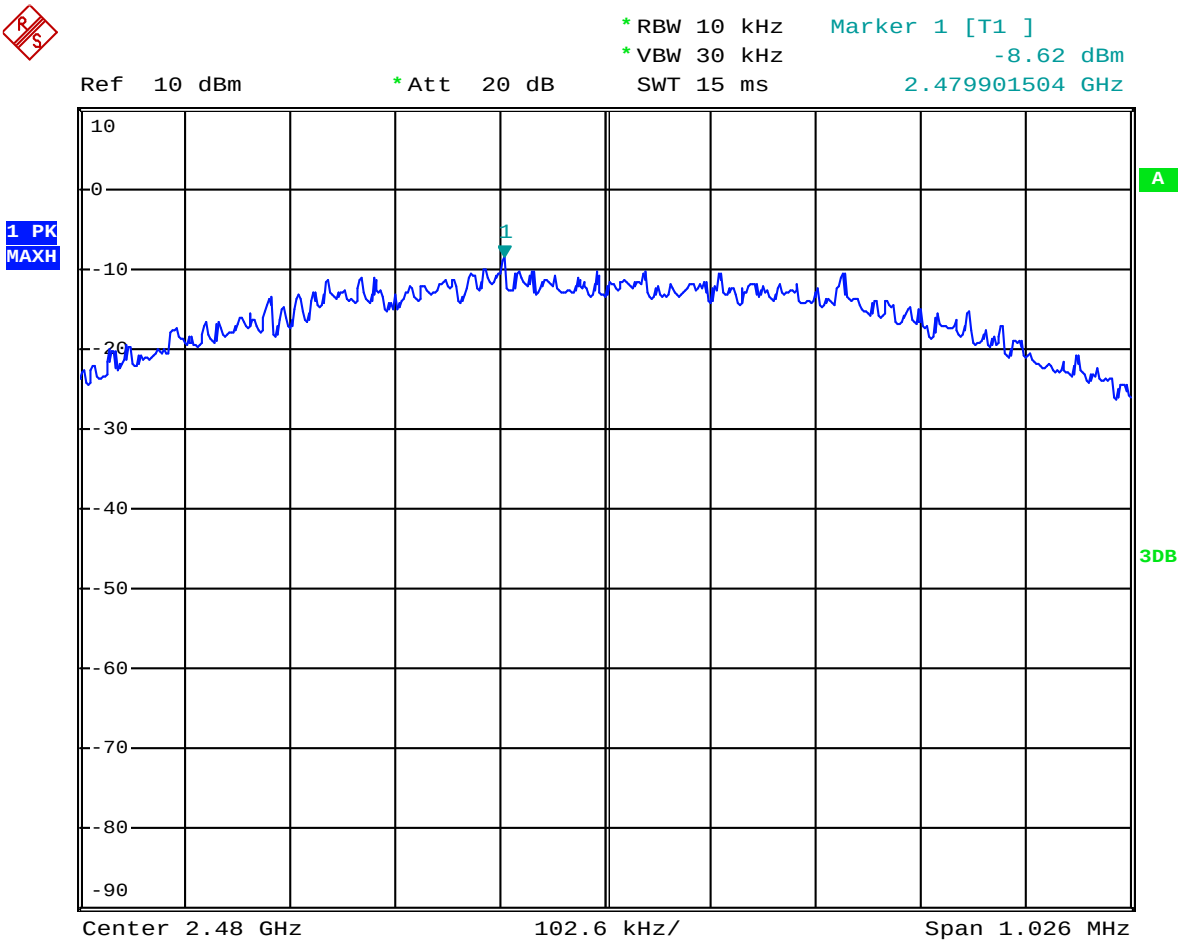


Date: 9.JUL.2026 14:25:04

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3. High Channel



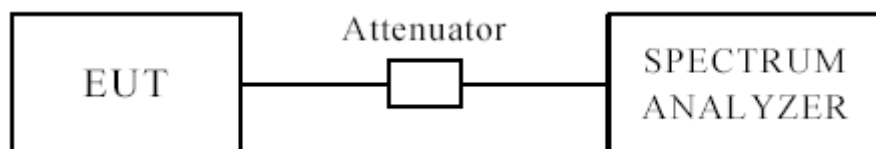
Date: 9.JUL.2026 14:25:40

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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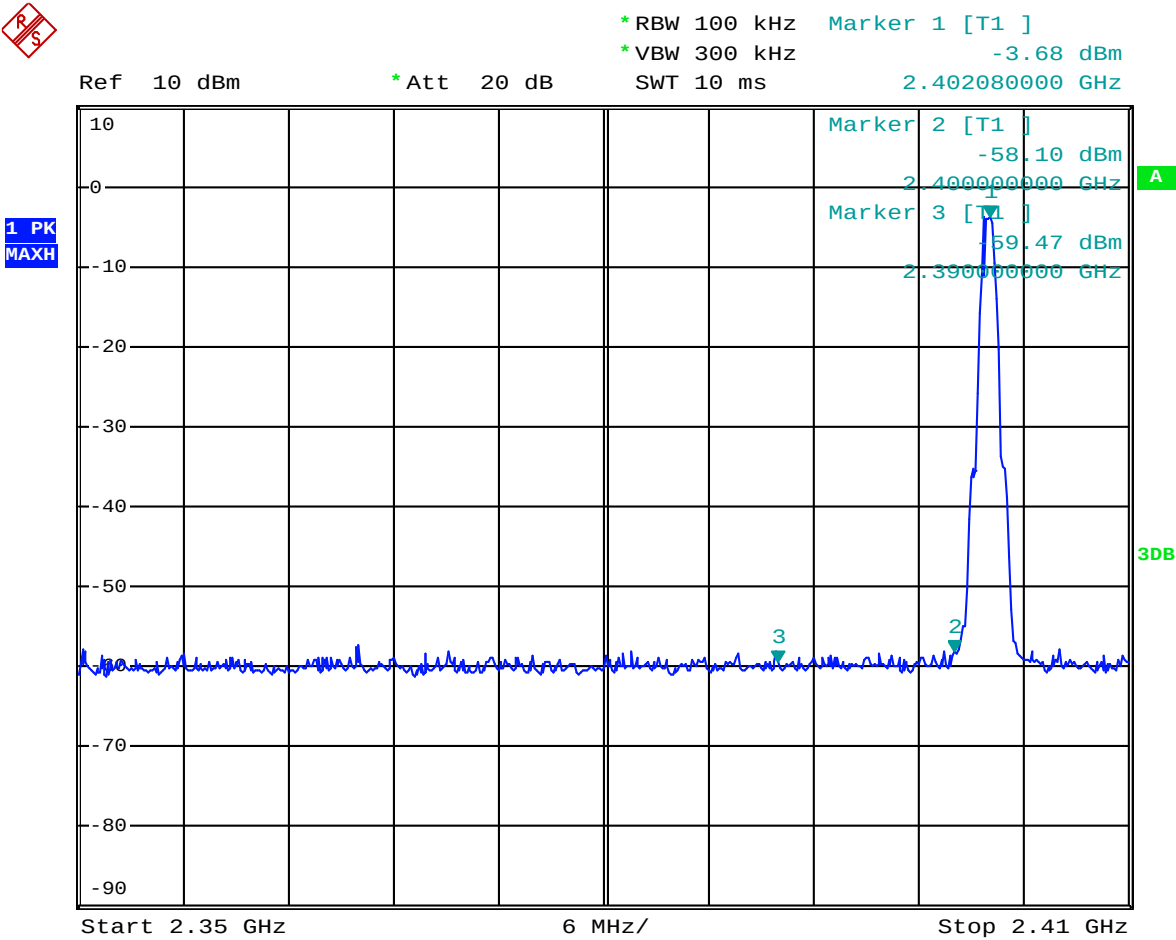
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10.4 Band-edge Measurement

EUT	TV BOX	Model	1097
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 9.JUL.2026 14:27:24

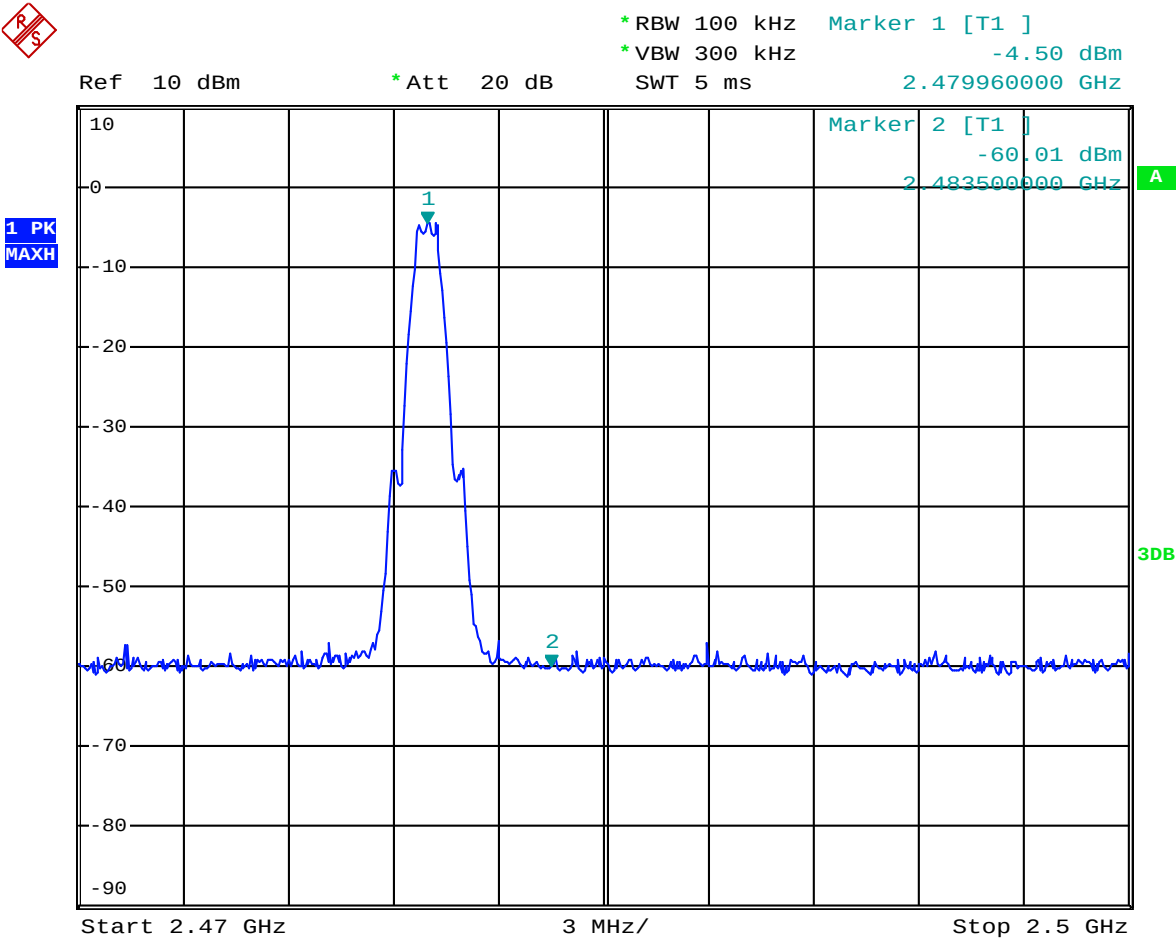
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10.4 Band-edge Measurement

EUT	TV BOX	Model	1097
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:

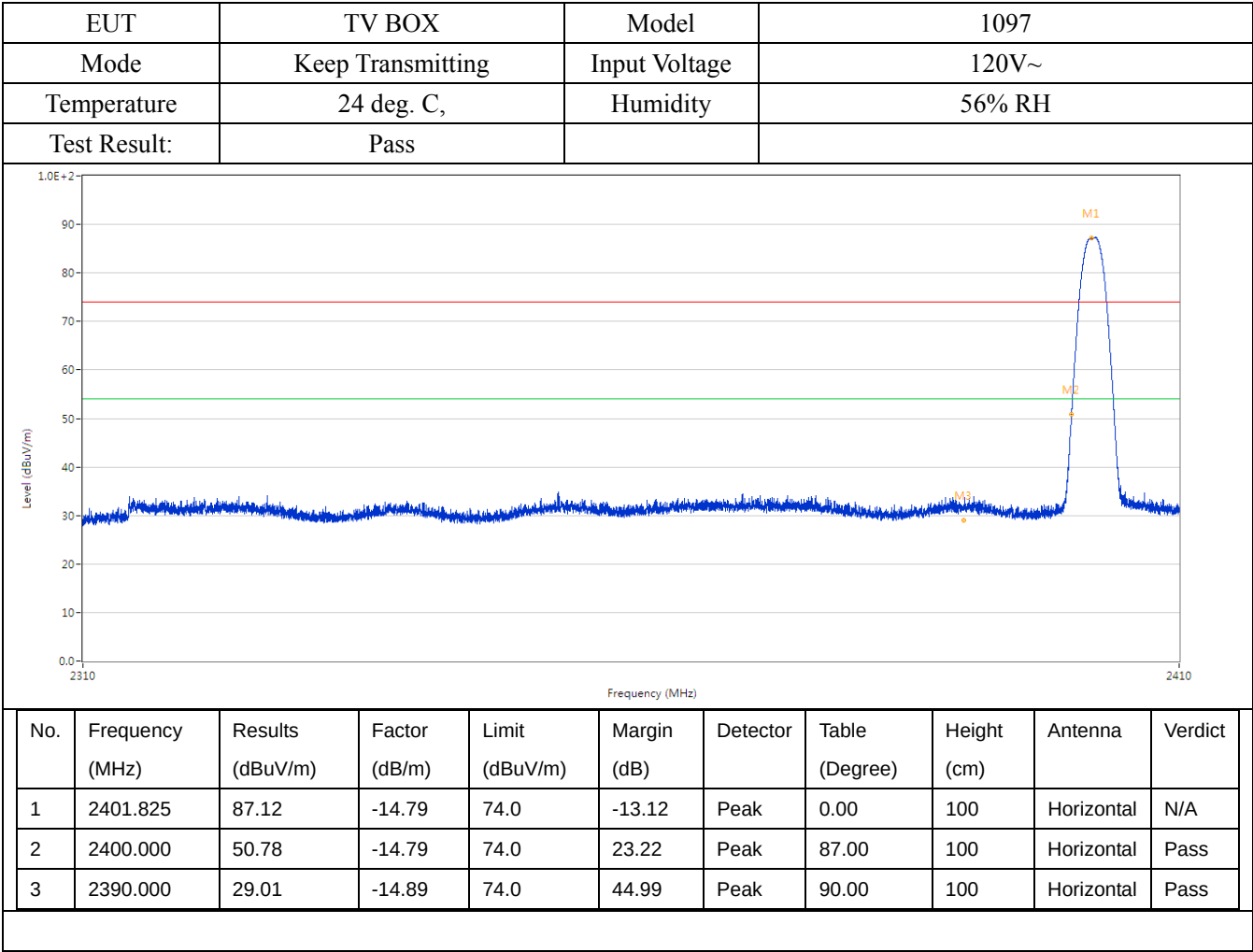


Date: 9.JUL.2026 14:26:45

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10.4 Restrict Band Measurement

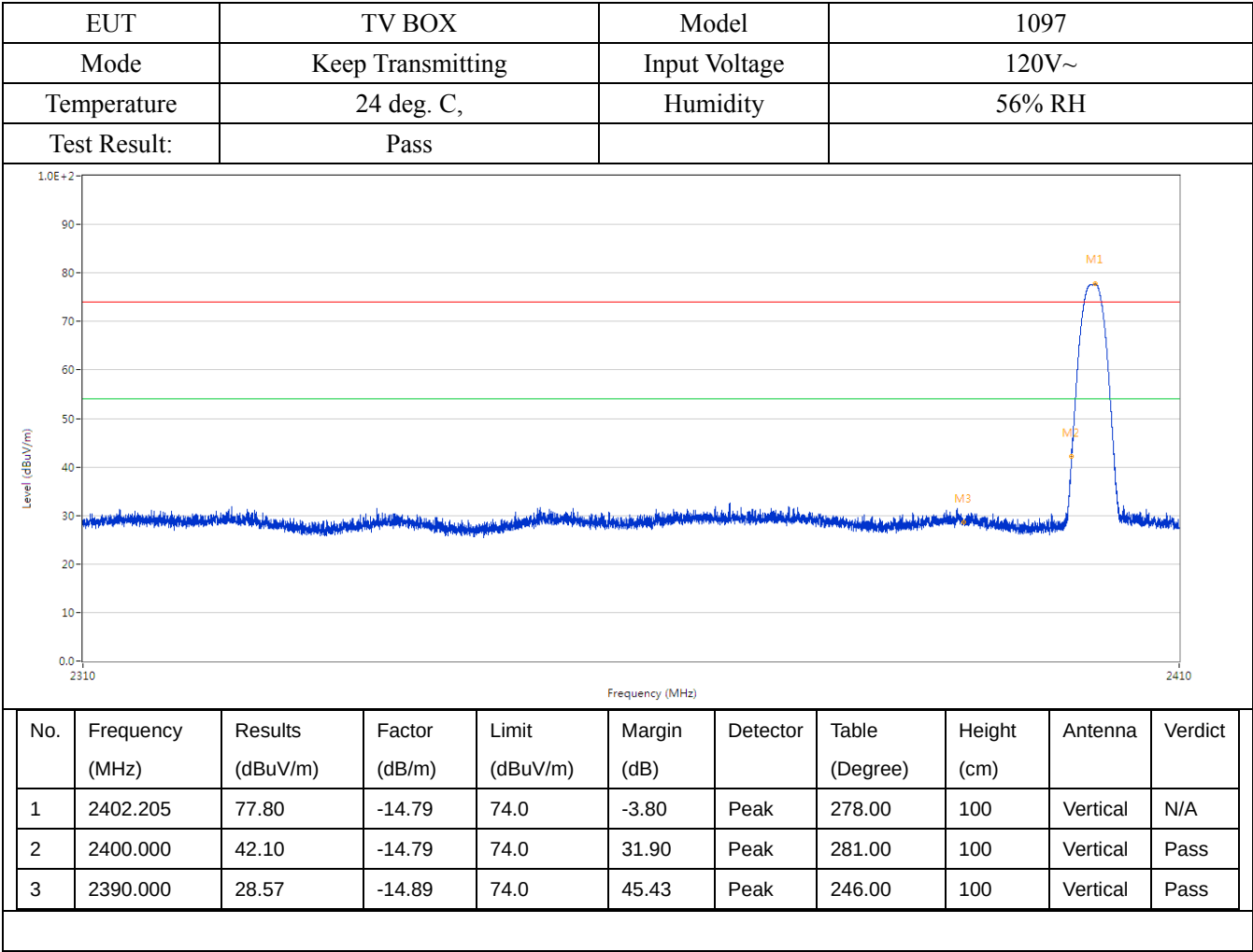


Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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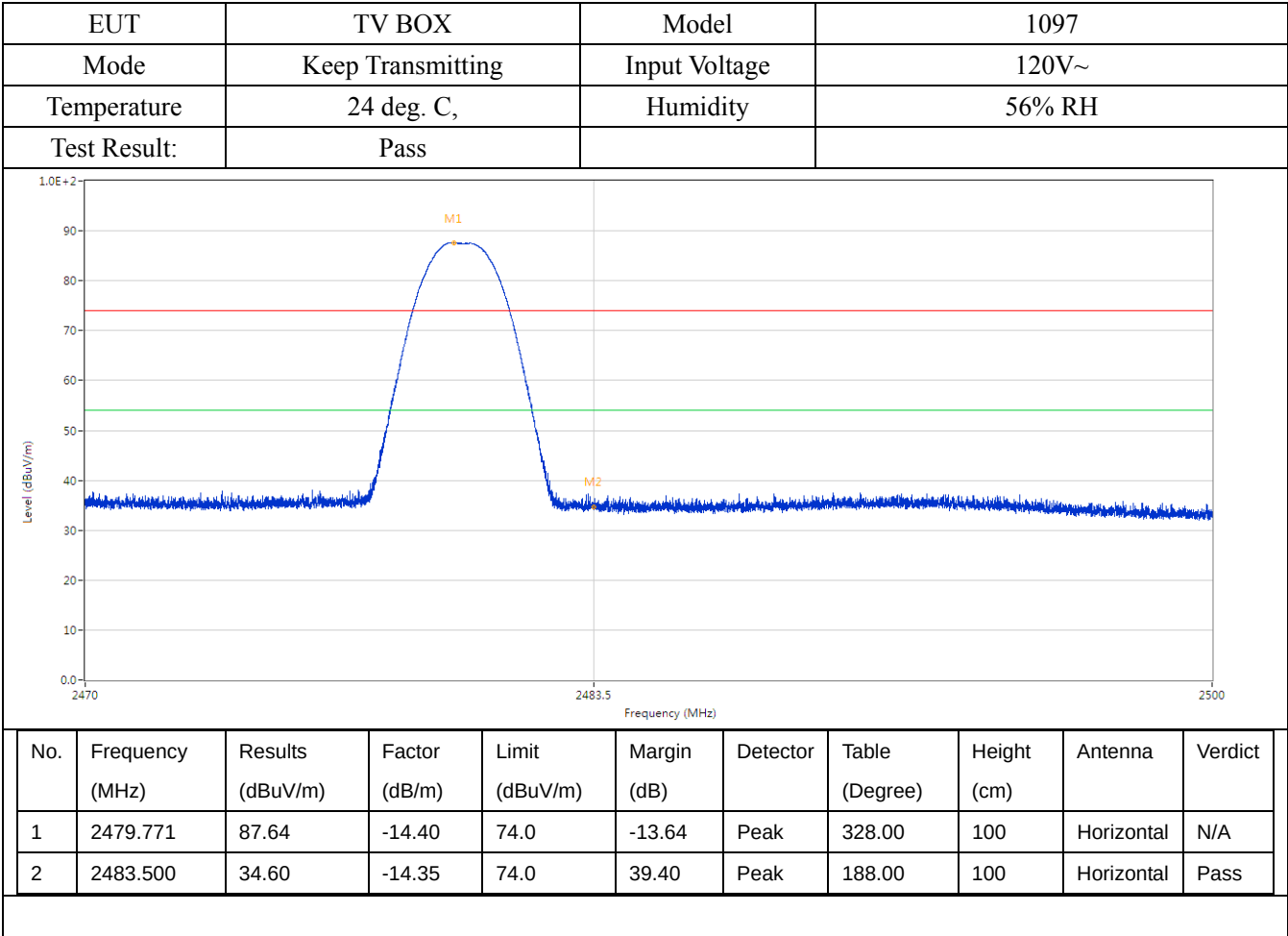


Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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10.4 Restrict Band Measurement

EUT	TV BOX	Model	1097
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2479.728	76.33	-14.40	74.0	-2.33	Peak	282.00	100	Vertical	N/A
2	2483.500	31.36	-14.35	74.0	42.64	Peak	307.00	100	Vertical	Pass

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is 3.39dBi (Get from the antenna specification provided the manufacturer)

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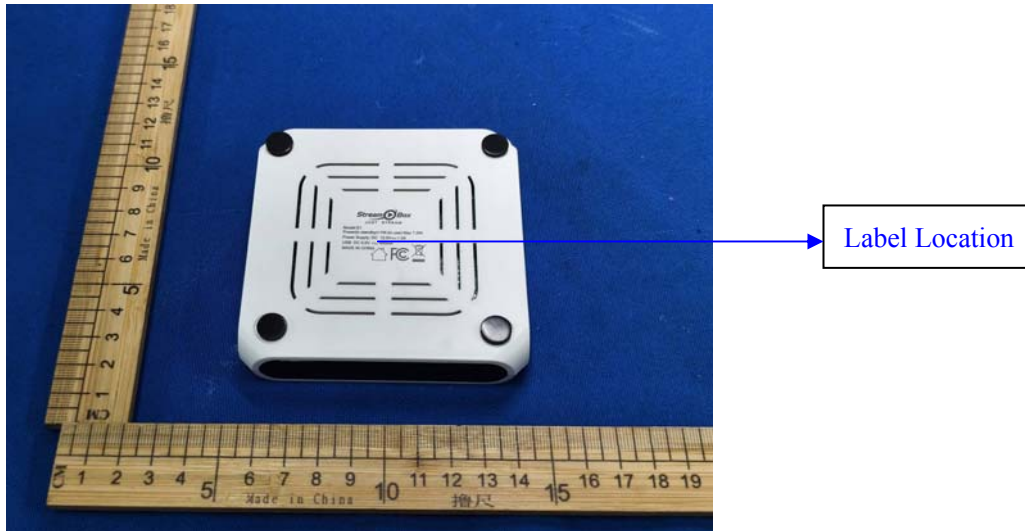


12.0 FCC ID Label

FCC ID: 2BWWI-TJ1097S1

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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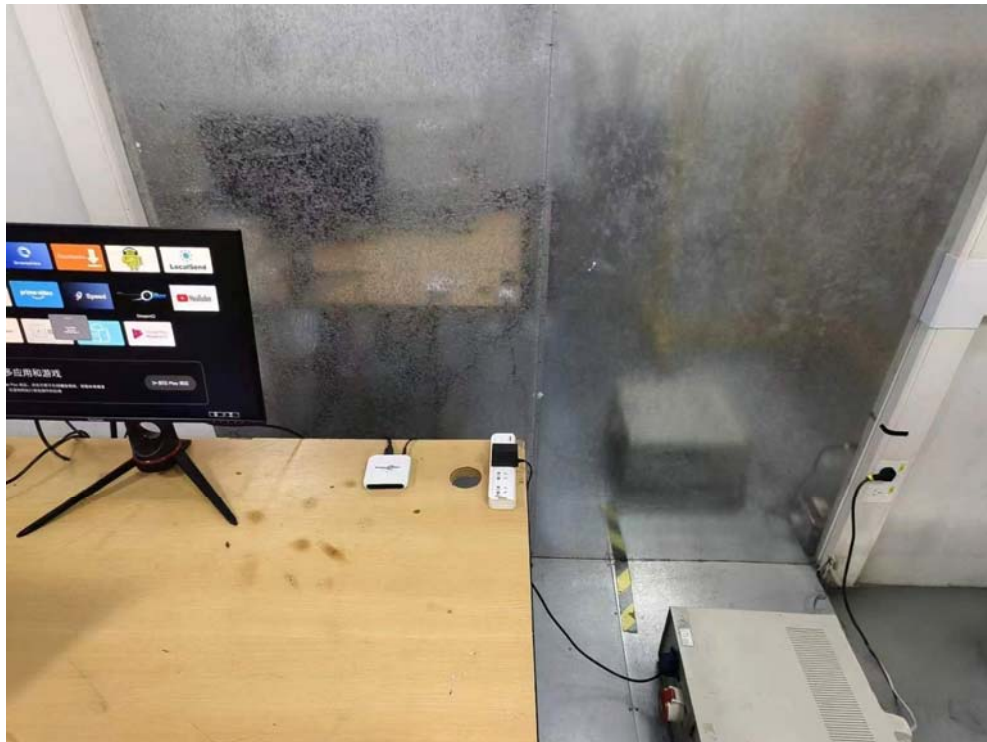
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13.0 Photo of testing

Conducted Emission Test Setup:



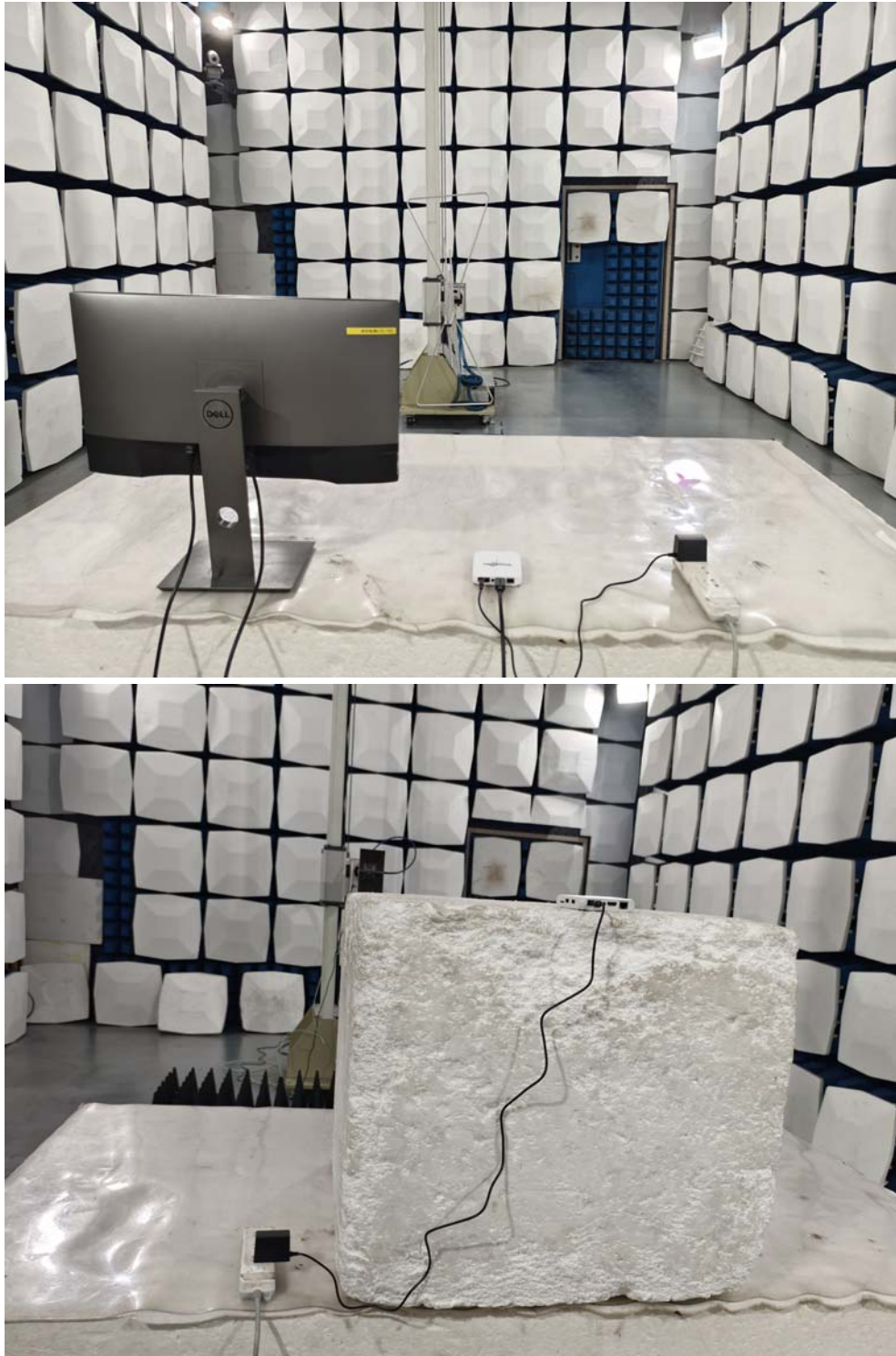
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Radiated Emission Test Setup:



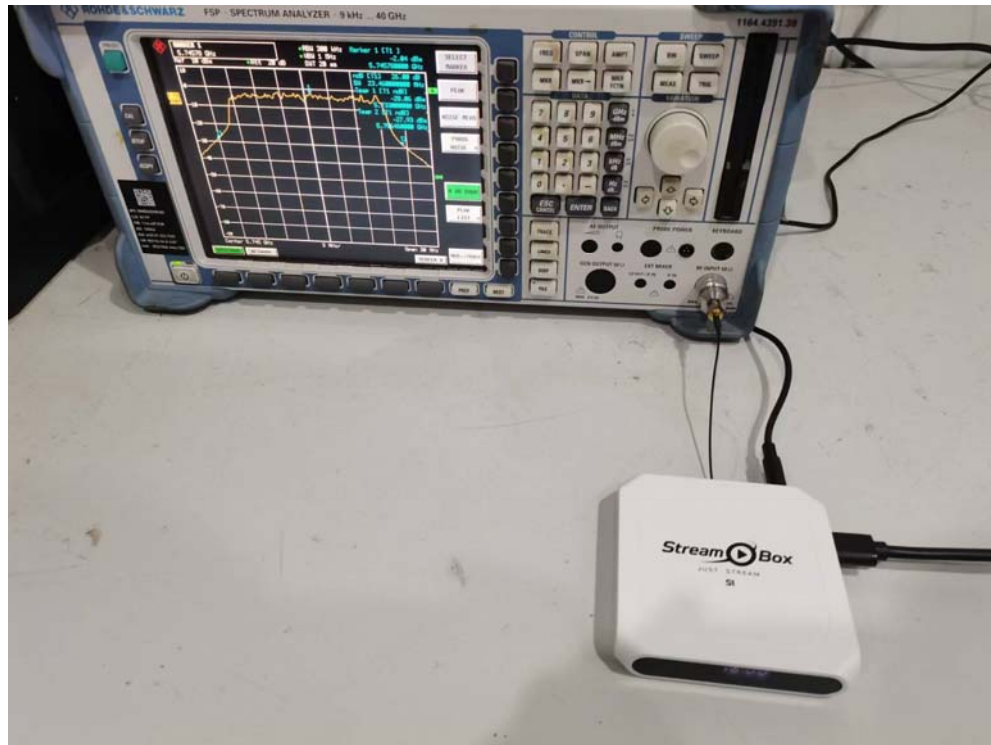
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RF test view



Photographs – EUT

Please refer test report TWN2606665-01E

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