

Applicant: GUANGDONG WANSHENG SCIENCE AND

TECHNOLOGY CO., LTD

Product: Built-in 2.1CH Soundbar

Model No.: LK-S810-9, LK-S810

Trademark: VEVOR, Lark, Vaensong

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry long

Terry Tang

Manager

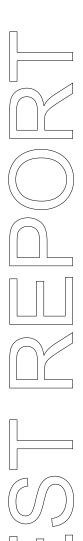
Dated: July 09, 2025

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



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# **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.

# Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada 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

Date: 2025-07-09



# Test Report Conclusion

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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

Site on File with the Federal Communications Commission – United States

Registration Number: 744189 For 3m Anechoic Chamber

# 1.2 Applicant Details

Applicant: GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD

Address: BLOCK D NO.1 ECOLOGICAL INDUSTRIAL ZONE NEW DISTRICT FENGSHUN

MEIZHOU CITY GUANGDONG PROVINCE CHINA

#### 1.3 Description of EUT

Product: Built-in 2.1CH Soundbar

Manufacturer: GUANGDONG WANSHENG SCIENCE AND TECHNOLOGY CO., LTD Address: BLOCK D NO.1 ECOLOGICAL INDUSTRIAL ZONE NEW DISTRICT

FENGSHUN MEIZHOU CITY GUANGDONG PROVINCE CHINA

Trademark: VEVOR, Lark, Vaensong

Model Number: LK-S810-9 Additional Model Name LK-S810

Rating: Input: 100-240V 50/60HZ Serial No.: LK-S810-9WS1000001

Hardware Version: V1.0 Software Version: V5.3

Operation Frequency: 2402-2480MHz

Modulation Type: GFSK, 月/4DQPSK, 8DPSK

Number of Channels: 79 Channel Separation: 1MHz

Antenna Designation PCB antenna with gain -0.68dBi maximum (Get from the antenna specification)

# 1.4 Submitted Sample: 2 Samples

# 1.5 Test Duration

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# 1.6 Test Uncertainty

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%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	-	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

# 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	ı tested accordin	g to the following	specifications:
		A	, 50000

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

# 4.0 EUT Modification

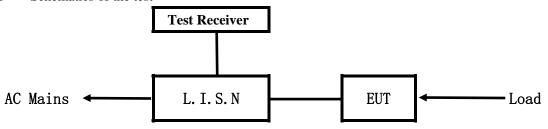
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

# 5.1 Schematics of the test

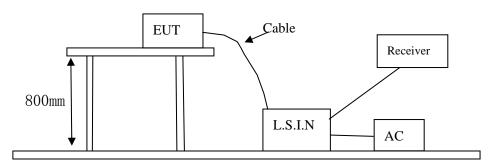


**EUT: Equipment Under Test** 

# 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



# 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

# A. EUT

Device	Manufacturer	Model	FCC ID
	GUANGDONG WANSHENG	I V C010 0	
Built-in 2.1CH Soundbar	SCIENCE AND TECHNOLOGY CO.,	LK-S810-9, LK-S810	2BQIS-LK-S810-9
	LTD	LK-3010	

# B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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# C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

- 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	Limits (d	lB μV)
(MHz)	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	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:

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

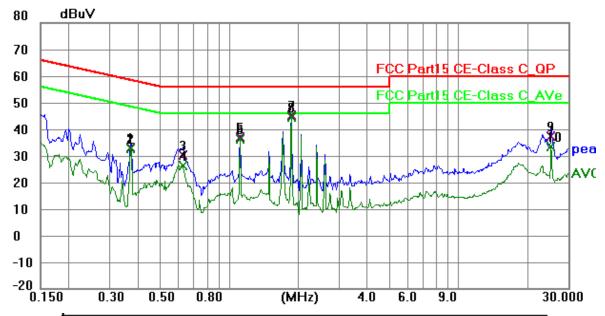
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

**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	0.3723	22.64	10.37	33.01	58.45	-25.44	QP	Р
2	0.3723	22.45	10.37	32.82	48.45	-15.63	AVG	Р
3	0.6297	19.73	10.44	30.17	56.00	-25.83	QP	Р
4	0.6297	15.98	10.44	26.42	46.00	-19.58	AVG	Р
5	1.1172	26.50	10.60	37.10	56.00	-18.90	QP	Р
6	1.1172	25.56	10.60	36.16	46.00	-9.84	AVG	Р
7	1.8582	33.91	11.20	45.11	56.00	-10.89	QP	Р
8	1.8582	33.18	11.20	44.38	46.00	-1.62	AVG	Р
9	25.2300	21.90	15.29	37.19	60.00	-22.81	QP	Р
10	25.2300	18.27	15.29	33.56	50.00	-16.44	AVG	Р

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

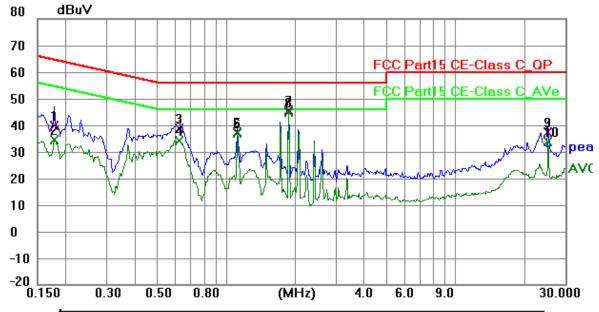
**EUT Operating Environment** 

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT** 

**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	0.1773	29.36	10.33	39.69	64.61	-24.92	QP	Р
2	0.1773	24.28	10.33	34.61	54.61	-20.00	AVG	Р
3	0.6219	28.46	10.44	38.90	56.00	-17.10	QP	Р
4	0.6219	23.55	10.44	33.99	46.00	-12.01	AVG	Р
5	1.1211	26.70	10.60	37.30	56.00	-18.70	QP	Р
6	1.1211	26.46	10.60	37.06	46.00	-8.94	AVG	Р
7	1.8660	34.15	11.21	45.36	56.00	-10.64	QP	Р
8	1.8660	33.44	11.21	44.65	46.00	-1.35	AVG	Р
9	25.2300	22.08	15.29	37.37	60.00	-22.63	QP	Р
10	25.2300	18.47	15.29	33.76	50.00	-16.24	AVG	Р

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#### **6** Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. 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 C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

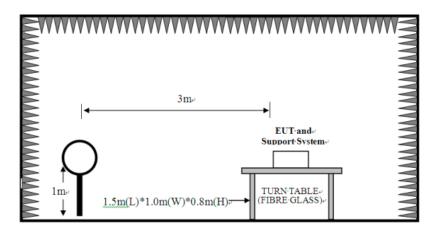
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). 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) The antenna polarization: Vertical polarization and Horizontal polarization.

#### **Block diagram of Test setup**

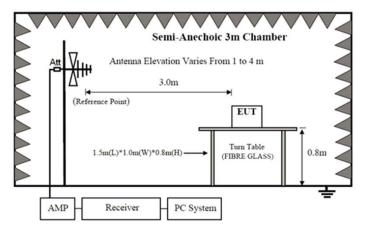
For radiated emissions from 9kHz to 30MHz



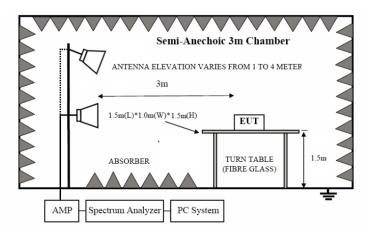
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For radiated emissions from 30MHz to1GHz



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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# A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	//m dBuV/m uV/m dBuV/m				V/m	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$ 

- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

# B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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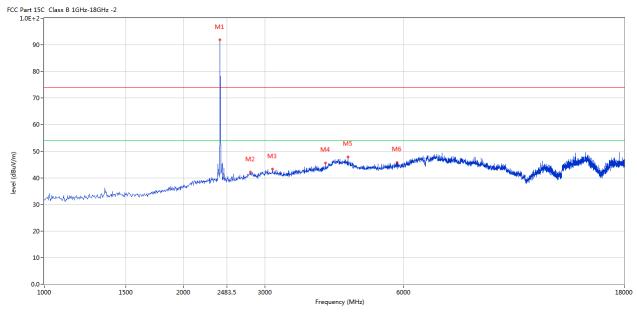


# 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



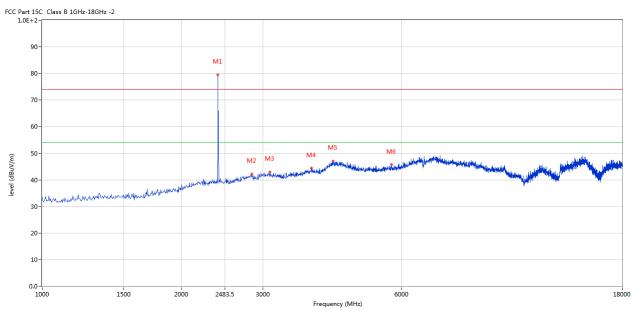
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	91.87	-3.57	114.0	-22.13	Peak	143.00	100	Horizontal	Pass
2	2793.052	42.20	-2.71	74.0	-31.80	Peak	360.00	100	Horizontal	Pass
3	3120.220	43.26	-2.15	74.0	-30.74	Peak	281.00	100	Horizontal	Pass
4	4059.235	45.55	1.32	74.0	-28.45	Peak	123.00	100	Horizontal	Pass
5	4539.365	47.91	2.35	74.0	-26.09	Peak	59.00	100	Horizontal	Pass
6	5797.051	45.78	3.83	74.0	-28.22	Peak	327.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	79.48	-3.57	114.0	-34.52	Peak	83.00	100	Vertical	Pass
2	2839.790	42.22	-2.69	74.0	-31.78	Peak	293.00	100	Vertical	Pass
3	3107.473	42.98	-2.18	74.0	-31.02	Peak	58.00	100	Vertical	Pass
4	3829.793	44.37	0.46	74.0	-29.63	Peak	120.00	100	Vertical	Pass
5	4263.184	47.09	1.75	74.0	-26.91	Peak	73.00	100	Vertical	Pass
6	5695.076	45.71	3.83	74.0	-28.29	Peak	263.00	100	Vertical	Pass

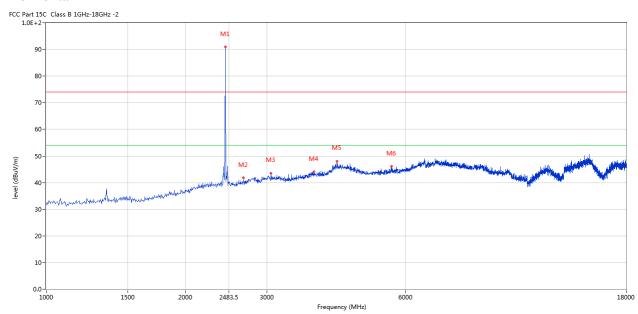
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



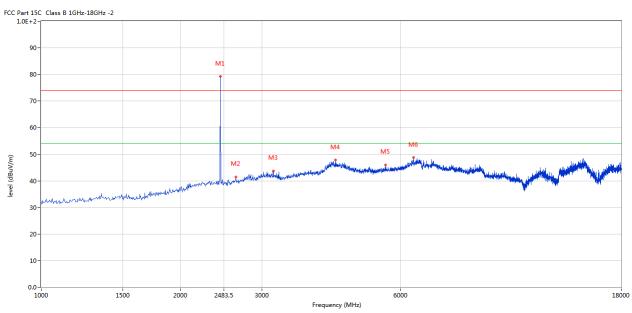
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	90.88	-3.57	114.0	-23.12	Peak	306.00	100	Horizontal	Pass
2	2674.081	41.87	-3.05	74.0	-32.13	Peak	123.00	100	Horizontal	Pass
3	3064.984	43.52	-2.35	74.0	-30.48	Peak	360.00	100	Horizontal	Pass
4	3800.050	44.01	0.31	74.0	-29.99	Peak	233.00	100	Horizontal	Pass
5	4263.184	48.11	1.75	74.0	-25.89	Peak	82.00	100	Horizontal	Pass
6	5584.604	46.05	3.92	74.0	-27.95	Peak	98.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	79.21	-3.57	114.0	-34.79	Peak	244.00	100	Vertical	Pass
2	2640.090	41.35	-3.18	74.0	-32.65	Peak	234.00	100	Vertical	Pass
3	3179.705	43.78	-2.02	74.0	-30.22	Peak	58.00	100	Vertical	Pass
4	4335.416	47.77	1.90	74.0	-26.23	Peak	275.00	100	Vertical	Pass
5	5567.608	45.97	3.92	74.0	-28.03	Peak	94.00	100	Vertical	Pass
6	6387.653	48.70	5.31	74.0	-25.30	Peak	43.00	100	Vertical	Pass

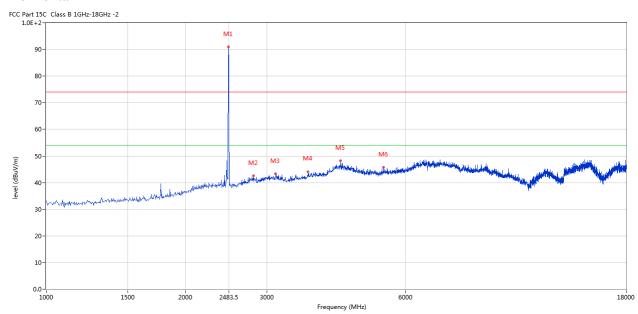
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

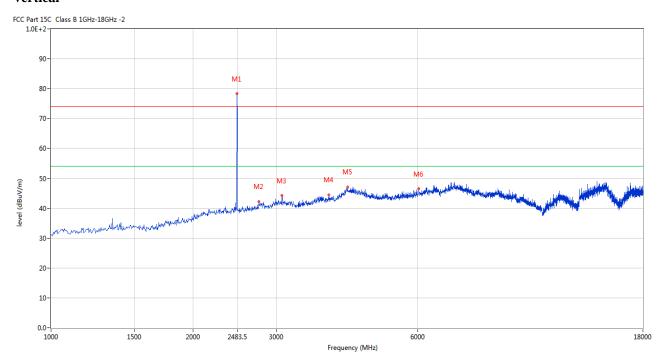


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	90.88	-3.57	114.0	-23.12	Peak	279.00	100	Horizontal	Pass
2	2810.047	42.48	-2.69	74.0	-31.52	Peak	171.00	100	Horizontal	Pass
3	3137.216	43.23	-2.11	74.0	-30.77	Peak	104.00	100	Horizontal	Pass
4	3689.578	44.06	-0.26	74.0	-29.94	Peak	77.00	100	Horizontal	Pass
5	4335.416	48.20	1.90	74.0	-25.80	Peak	304.00	100	Horizontal	Pass
6	5367.908	45.70	3.63	74.0	-28.30	Peak	124.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	78.28	-3.57	114.0	-35.72	Peak	93.00	100	Vertical	Pass
2	2759.060	42.26	-2.80	74.0	-31.74	Peak	192.00	100	Vertical	Pass
3	3090.477	44.21	-2.24	74.0	-29.79	Peak	354.00	100	Vertical	Pass
4	3880.780	44.47	0.72	74.0	-29.53	Peak	24.00	100	Vertical	Pass
5	4258.935	47.04	1.74	74.0	-26.96	Peak	118.00	100	Vertical	Pass
6	6026.493	46.61	3.88	74.0	-27.39	Peak	306.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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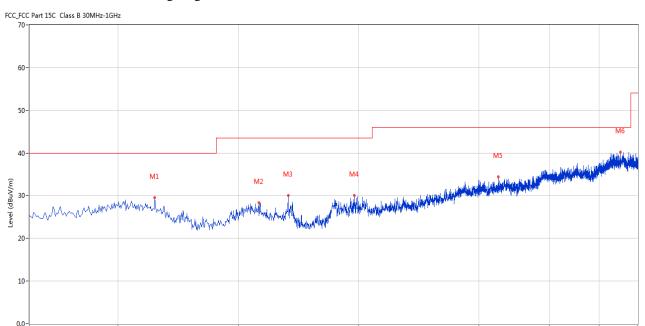


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	61.760	29.51	-5.55	40.0	10.49	Peak	274.00	100	Horizontal	Pass
2	112.429	28.38	-6.23	40.0	11.62	Peak	196.00	100	Horizontal	Pass
3	133.279	30.11	-9.22	40.0	9.89	Peak	172.00	100	Horizontal	Pass
4	194.859	30.02	-7.15	40.0	9.98	Peak	360.00	100	Horizontal	Pass
5	447.238	34.41	-0.97	47.0	12.59	Peak	115.00	100	Horizontal	Pass
6	904.479	40.22	4.91	47.0	6.78	Peak	274.00	100	Horizontal	Pass

200

Frequency (MHz)

400

1000

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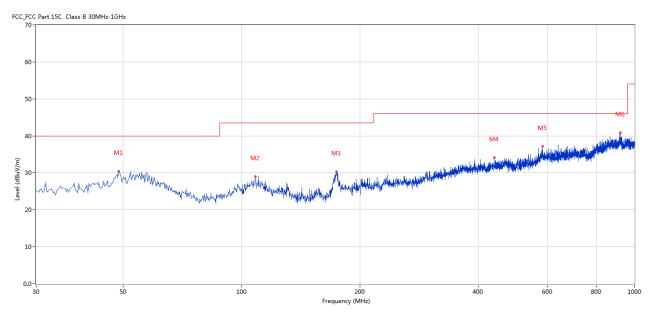


# Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	48.668	30.46	-5.27	40.0	9.54	Peak	133.00	100	Vertical	Pass
2	108.550	29.05	-5.98	40.0	10.95	Peak	355.00	100	Vertical	Pass
3	174.494	30.38	-8.37	40.0	9.62	Peak	229.00	100	Vertical	Pass
4	406.266	33.66	-1.47	47.0	13.34	Peak	108.00	100	Vertical	Pass
5	583.004	37.23	1.70	47.0	9.77	Peak	267.00	100	Vertical	Pass
6	921.207	40.82	5.57	47.0	6.18	Peak	155.00	100	Vertical	Pass

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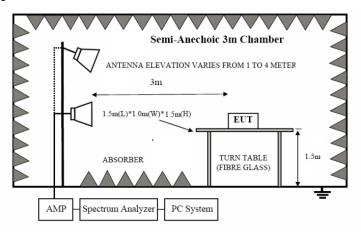


# 7. Band Edge

#### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

# 7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

# 7.3 Configuration of the EUT

Same as section 5.3 of this report

# 7.4 EUT Operating Condition

Same as section 5.4 of this report.

# 7.5 Band Edge Limit

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 Section 15.209, whichever is the lesser attenuation.

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

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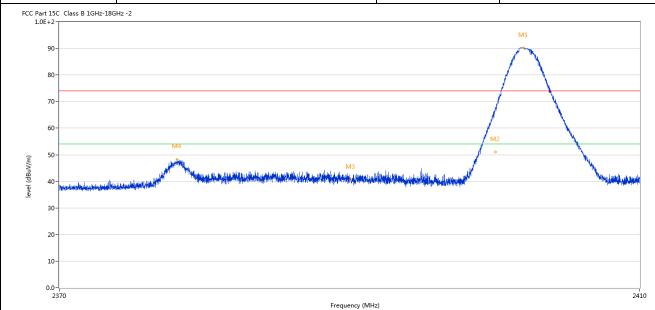
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#### 7.6 Test Result

Product:	Built-in 2.1CH Soundbar	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No	o. Fr	requency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(N	⁄IHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	24	401.942	90.26	-3.57	74.0	16.26	Peak	145.00	100	Horizontal	N/A
2	24	400.000	67.27	-3.57	74.0	-6.73	Peak	141.00	100	Horizontal	Pass
2*	* 24	400.000	51.04	-3.57	54.0	-2.96	AV	141.00	100	Horizontal	Pass
3	23	390.000	40.60	-3.53	74.0	-33.40	Peak	204.50	100	Horizontal	Pass
4	23	378.068	48.25	-3.49	74.0	-25.75	Peak	145.00	100	Horizontal	Pass

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]	Product:	Bu	ilt-in 2.1C	H Soundbar		Detect	or		Vertical	
	Mode	K	Leeping Tra	ansmitting		Test Vol	tage		120V~	
Te	mperature		24 deg. C,			Humid	ity	56% RH		
Te	est Result:		Pas	SS						
	t 15C Class B 1GHz-18GF E+2-	Hz -2								
	90-									
	90-							M1		
	80-									
	70-							/-		
	60-						/			
								,		
	50-						ſ		N.	
(m//m)	50-						M <sub>2</sub>			
evel (dBuV/m)	50- 40-	on the tribute superior state that which the state name	n ji ji <del>i lej jugig gaaragi ka </del>	dhaan waa kan fadhaday ahaaday ah taa baa	M3 Kalingo disaabada da	e displacement de la constitución	M2		Mary Mary Mary	dagaderialdi birliari
level (dBuV/m)	40-	an hala hisian musukaka kelendaran	n di siddingay ya magalaha maddal ga an dhaday y	ولاسين سيوافعها إحق خاوي ماريخ الإصباري		e singhisme in facility and a second			Management	dagada takk tuluar.
level (dBuV/m)	40-	oo dhar histor ayar aligadh a ar Alba dha um	n gel <del>efa pelefagean philo</del> gean philogean	يتسيدوه أفعار بالمياسية والمتعارية		rakeriskaniska kalendari se seneka			Maryana	dag dag halik dirilari
level (dbuv/m)	40- 	an hela hela hela hera mermelapak di 1867 yil bin yela muu	ને કું (લેવી) જોઇક અલ્લામાં કોઇ જ સાથે કે ફ્રાંટ નો કર્યા હતા.	Khausana Haahadhadhadhadhaadhadhadhadhadhadhadhadh		estrophenist plans from the green consent.			Marianin	ndagada kadak dirilark
level (dbuV/m)	40-	oo hala hii daa muuriili ahaa ka k	n girlefyndyn aceaphin o saidd a a dae'i gan	الآسيد بعق أطعار بخو خواب خود يكون والإستان والإستان والإستان والإستان والإستان والإستان والإستان والإستان وال		rdenistaniste audienseere, van de			No. of the second	de galeta de la casa d
	40- 	ng district district negrossis place to the film of the second	i girlefyddynwegildig o eildig a chwl, cy	والأسيد بسيطأها أحال خارك المراجعة الاصراحة		salmistamistamistamismusyos named			Marine	241
	30 - 10 - 0.0	oo hala histaa muurika ka ka ka ka muu	n girlefyndyn aceaphin o addil a n dan fyn y	and the second s		r despensió fra miljenta gri e e con da			Marine Marine	
	30 - 10 - 0.0	Results	Factor	and the second s	kamiliangan da samiri dan di dan pada safara	Detector		Height	ANT	2410
	30 - 20 - 10 - 2370		All control and an analysis of the control and an analysis of		Frequency (MHz)	and the second s	**	Height (cm)		2410
No.	30- 20- 10- 2370	Results	Factor	Limit	Frequency (MHz)  Over Limit	and the second s	Table	_		2410
No.	30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)	Detector	Table (o)	(cm)	ANT	verdid
(w/nngp) Java	30- 20- 10- 2370 Frequency (MHz) 2401.752	Results (dBuV/m) 78.94	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz)  Over Limit (dB)  4.94	Detector Peak	Table (o) 79.00	(cm) 100	ANT Vertical	Verdid

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	Product:	В	Built-in 2.1	CH Soundba	ar	P	olarity		Horizo	ntal
	Mode		Keeping 7	Fransmitting	ng T		t Voltage	;	120V	<b>~</b>
T	emperature		24 c	leg. C,		Hı	ımidity		56% F	RH
7	Test Result:	esult: Pass			Pass					
2 Par 1.0	t 15C Class B 1GHz-18GHz E+2-	:-2								
	90-		M1							
	50- 40-	Middle the graph with the state of the state	/	M2	Anna de confessione de desirios	and the second second	oodkamanija piokkaljisk	iteaty in inches deposits principal	ondagallishors and the suidon, also the	daya ida si dayillari
	50- 40- 30- 20-	stales in the state of the stat	/	M2	Mary Mary Participation	teraki di samba da sing baki sa	andamunija stokologi sto	iteakui daabahada daarii segah yak	oodaqiilahoo aadoo jibbiloo	dragonista orally plane
	50- 40- 30- 20- 10-	Hadrida na sa		M2	Mary Advisor Sales Continued	ngalinihan, da den gida hida ga	aalkamuu,jastataluksiksi	llenityii dayetdaningaalaa prinsipliyyyka	ordayalabora asido a	dramidra digita
	50- 40- 30- 20-	Halvida da se esta de la compansión de l		2483.		tradition of the spin plat on	and annual probability of a	(lenity) dage den den den den den den den den den de	ordayalabora adar jibilan	2500
No.	30- 20- 10- 2470	Results	Factor	2483.	5	Detector	Table	Height	ANT	

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.763	89.28	-3.57	74.0	15.28	Peak	273.00	100	Horizontal	N/A
2	2483.500	55.39	-3.57	74.0	-18.61	Peak	191.86	100	Horizontal	Pass
2**	2483.500	40.45	-3.57	54.0	-13.55	AV	191.86	100	Horizontal	Pass

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]	Product:	Bı	ıilt-in 2.1C	H Soundbar		Detec	tor		Vertical	
	Mode	I	Keeping Tr	ansmitting		Test Vo	ltage		120V~	
Te	mperature		24 de	g. C,		Humio	lity		56% RH	
Te	est Result:		Pa	SS						
	rt 15C Class B 1GHz-18GH	lz -2			•			•		
	90-									
	80-		M	11 ***********************************						
	70-			1						
	60-									
			- 1	V						
	00-			1						
(m/)	50-		f	M2						
el (dBuV/m)		العادلة والعادلة والمستوان		M2	Now well and the second		والمراجع والمسالم والمراجع المادية والمراجع والمراجع المادية والمراجع والمراجع والمراجع والمراجع والمراجع والم	والمعارض والمنافضة والمعارضة المنافض والمنافض والمنافضة والمنافضة والمنافضة والمنافضة والمنافضة والمنافضة والم	معنيين بإراغة وتعميد وجعناء برونو	أولي ووالم المالة والدائل
level (dBuV/m)	50-	hall god vog god gjord der vedge films god i		M2	Market California de la casa de l	inga sandan ofunis displaying a species singaper	nafragensjonske er yn heisslân	overale for our leader to specify the	والمراجعة	والمعارضة والمعا
level (dBuV/m)	40 - marrondo disconstillo accessod	hell system på gjende flyren skyre freder fred bleve spekel		M2	Now well and the second	enge volder of a last of a special constraints.	nd age double 1974 bis libe	ungainheir amh adrifhiú sgairgeil	والمراسطين والمراجع	ngthide lift passboads
level (dBuV/m)	50- 40-	lakisakara panipisan kanandasa dikansisah		M2	Marie Laddylde harber har en	inga wakin di rikaki di diperancih singdi	નવી ન્યાર્થ જીવનો લગ્ન કરેલા કોલ્	૧૯૦૧માં સેન્સ અને નક્ષેત્રી કેઇન્ડાફર્મિક સ્ટિક્સ સ્ટ	BPA <sub>STI A</sub> ŠTAV <sub>AS</sub> 18.03 Vijefel <sub>s</sub> ije Jesúkav	ngilad a lidh gaya han,d d
level (dBuV/m)	40 - marrondo disconstillo accessod	hell syderes specialism the second liberate hell		M2	Marie and the second se	ing with the left for the state of the state	નવી પાસ સ્વાહિત હતી.	wario kara katala mpapul	ski dire e este kilik sesse	nghiện dit nguyên cád
level (dBuV/m)	30 - 20 - 0.	ledischeres perioden der endere Sterester		M2		reposition of the latter was single	નવી નવા વેજી નવી અને જેવા હોય	ungirkys a kabilitys byrd	pa <sub>tu</sub> iker <sub>e</sub> e enkryfelje seure	
level (dBuV/m)	50- 40- 30- 20-	ladigatures puntapure dominidas jajans sentr		M2 2483.		ing wide of shift of equal to super	નવી ત્યાર સ્પૃત્રીના હોલ્સ હોંગ હોલ્સ હોંગ	ng nging kan man katabatan ngabiput	pol <sub>e</sub> uborg cub pol <sub>e</sub> ky je gupe	250
level (dBuV/m)	30 - 20 - 0.	Results	Factor	2483.	5	Detector	Table	Height	ANT	250
	30 - 20 - 10 - 2470		Factor (dB)	1	5 Frequency (MHz)					
	30- 20- 10- 2470	Results		Limit	5 Frequency (MHz)		Table	Height		250

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. The three modulation modes of GFSK, Pi/4D-QPSK and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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# 8.0 Antenna Requirement

# **Applicable Standard**

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -0.68dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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#### 9.0 20dB Bandwidth Measurement

# **Test Configuration**



# **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

# Limit

N/A

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Span 3 MHz

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#### **Test Result**

Product:		Built-in 2	.1CH Soun	dbar	Test M	Iode:	Ke	eep transn	nitting
Mode		Keeping	Transmitt	ing	Test Vo	oltage		120V-	-
Temperature		24	deg. C,		Hum	idity	56% RH		
Test Result:			Pass		Dete	ctor	PK		
20dB Bandwidth		8	94kHz			-			
Ref 10 0	<b>i</b> Bm	* At	t 20 dB	*RBW 30 *VBW 10 SWT 5	00 kHz		1 [T1 -4	.82 dBm	
10						ndB [T BW 894 Temp 1	.000000 [T1 nd	B-]	A
1 PK MAXH				<b>√</b>		2 Temp 2	.401538	8]	
20			<i></i> ₩	V	T2	2	.402432	.50 dBm	
30		\rangle							
40						η			
	. ~~~						M		3DB
-50 50	J					<u> </u>	h.	man.	

Date: 3.JUL.2025 10:43:33

Center 2.402 GHz

-90

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

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300 kHz/

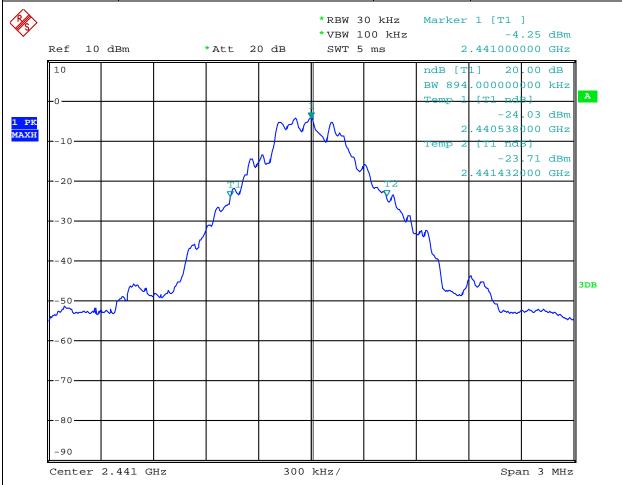
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GFSK	GFSK						
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting				
Mode	Keeping Transmitting	Test Voltage	120V~				
Temperature	24 deg. C,	Humidity	56% RH				
Test Result:	Pass	Detector	PK				
20dB Bandwidth	894kHz						



Date: 3.JUL.2025 10:46:46

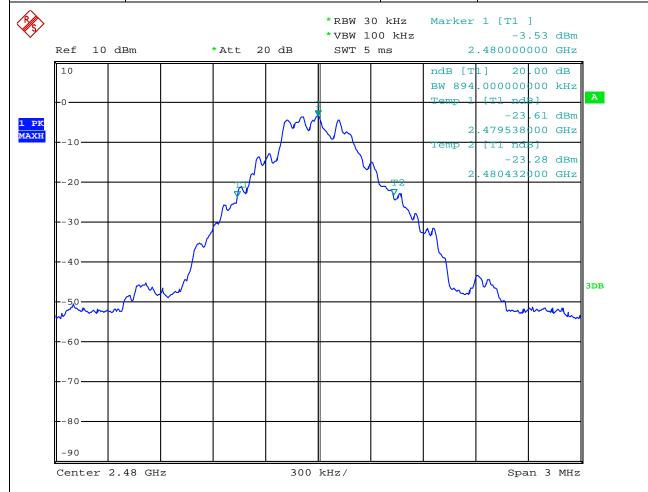
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Date: 2025-07-09



GFSK							
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting				
Mode	Keeping Transmitting	Test Voltage	120V~				
Temperature	24 deg. C,	Humidity	56% RH				
Test Result:	Pass	Detector	PK				
20dB Bandwidth	894kHz						



Date: 3.JUL.2025 10:48:22

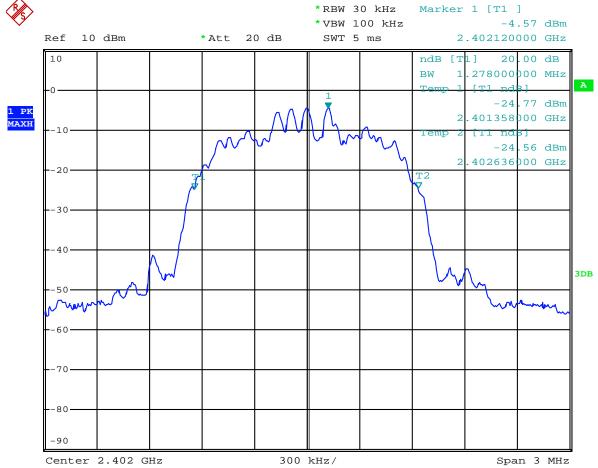
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Date: 2025-07-09



Л/4DQPSK			
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		
R	* PRM	V 30 kHz Marke	r 1 [T1 ]



Date: 3.JUL.2025 10:33:52

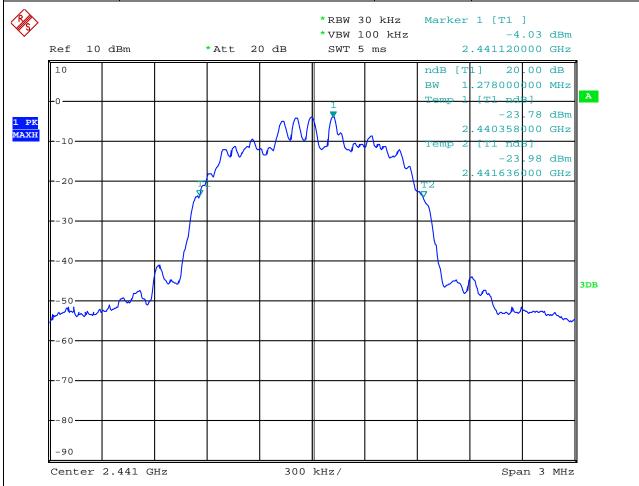
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Date: 2025-07-09



Л/4DQPSK			
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		



Date: 3.JUL.2025 10:34:59

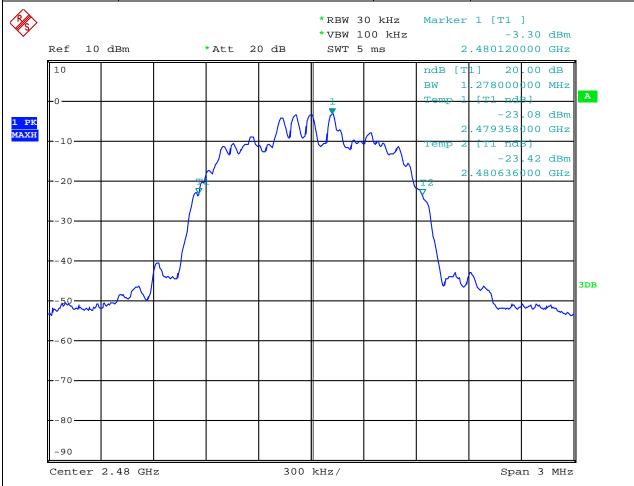
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Л/4DQPSK			
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.278MHz		



Date: 3.JUL.2025 10:41:32

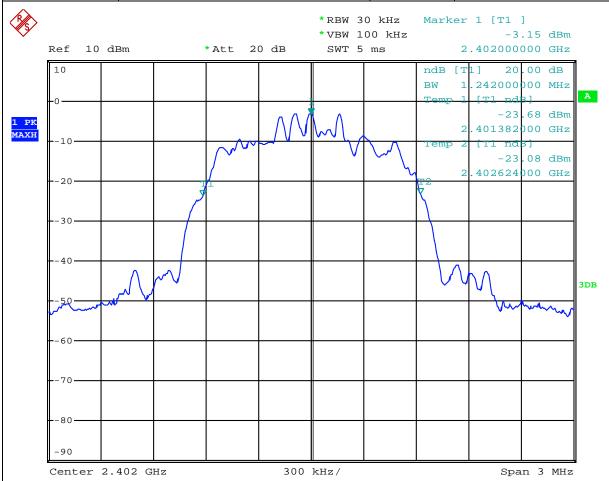
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Date: 2025-07-09



8DPSK			
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.242MHz		



Date: 9.JUL.2025 12:16:48

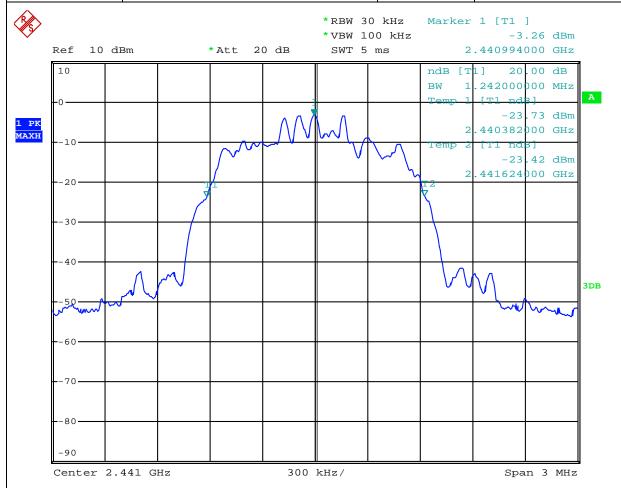
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8DPSK				
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	1.242MHz			



Date: 9.JUL.2025 12:13:54

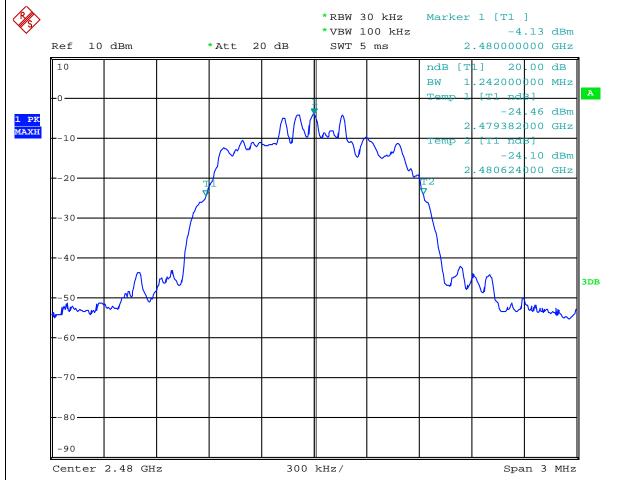
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8DPSK				
Product:	Built-in 2.1CH Soundbar	Test Mode:	Keep transmitting	
Mode	Keeping Transmitting	Test Voltage	120V~	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	1.242MHz			



Date: 9.JUL.2025 12:12:46

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# 10.0 FCC ID Label

# FCC ID: 2BQIS-LK-S810-9

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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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### 11.0 Photo of testing

#### 11.1 Conducted test View



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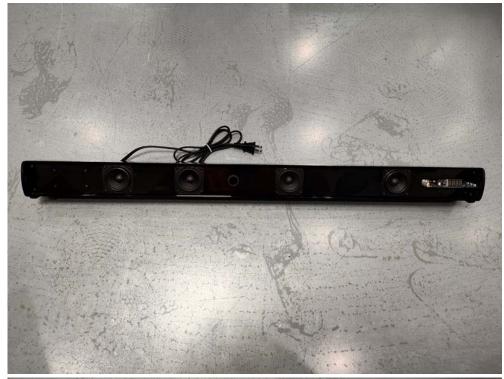
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#### 11.2 Photographs - EUT

Outside View





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Outside View



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Outside View





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Outside View



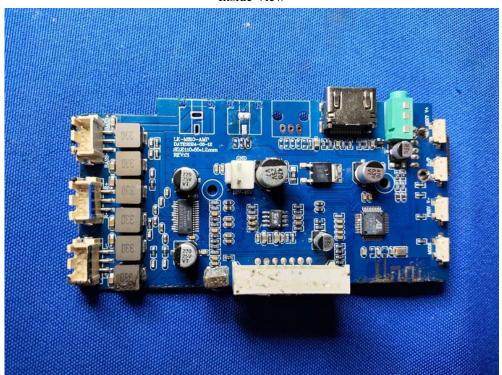
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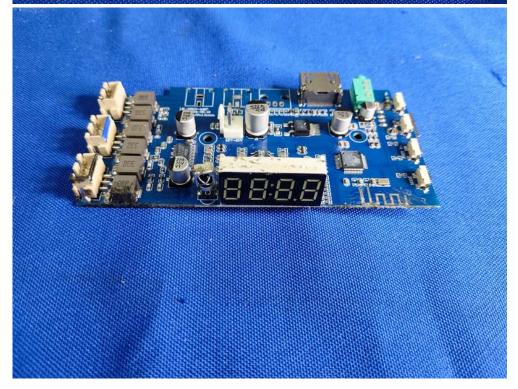
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Inside View





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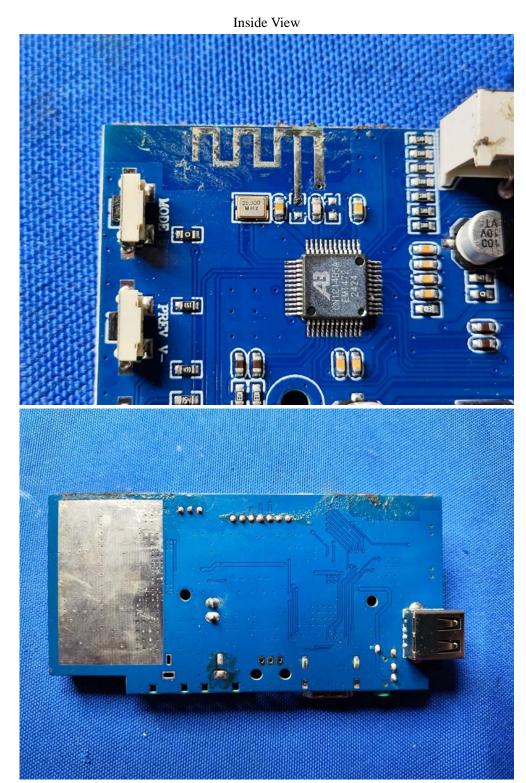
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Inside View



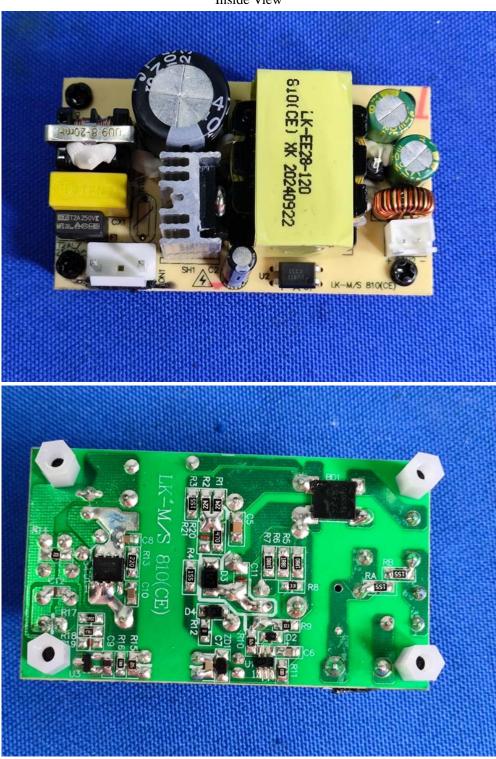
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Inside View



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