

TEST REPORT

Product Name : 2.1 Soundbar System

Brand Mark : VIZIO

: SV210X-0805 Model No. FCC ID : 2BAMH-SV210

Report Number : BLA-EMC-202306-A5502

Date of Sample Receipt : 2023/6/16

Date of Test : 2023/6/20 to 2024/1/3

: 2024/1/4 Date of Issue

Test Standard : 47 CFR Part 15, Subpart C 15.247

Test Result : Pass

Prepared for:

GUANGZHOU YIZHI ELECTRONICS CO.,LTD. ROOM 401, BUILDING 8, NO.481, TAINAN ROAD, NANSHA DISTRICT, **GUANGZHOU CITY, GUANGDONG PROVINCE**

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd. Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

TEL: +86-755-23059481

Compiled by:

charlie Approved by:







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REPORT REVISE RECORD

Version No.	Date	Description
00	2024/1/4	Original





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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass

Remark:

N/A: Not Applicable



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2 GENERAL INFORMATION

Applicant	GUANGZHOU YIZHI ELECTRONICS CO.,LTD.
Address	ROOM 401, BUILDING 8, NO.481, TAINAN ROAD, NANSHA DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE
Manufacturer	GUANGZHOU YIZHI ELECTRONICS CO.,LTD.
Address	ROOM 401, BUILDING 8, NO.481, TAINAN ROAD, NANSHA DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE
Factory	GUANGZHOU YIZHI ELECTRONICS CO.,LTD.
Address	ROOM 401, BUILDING 8, NO.481, TAINAN ROAD, NANSHA DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE
Factory	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd
Address	NO.5 Building ,No.139,Zhouxing Street,Dongchong Town,Nansha District,Guangzhou City,Guangdong Province,China
Product Name	2.1 Soundbar System
Test Model No.	SV210X-0805

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A	
Software Version	N/A	
Engineer sample no:	BLA-EMC-202306-A55	
Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK	
Data Rata	1Mbps; 2Mbps	
Channel Spacing:	2MHz	
Number of Channels:	40	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.96dBi(Provided by the customer)	



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4 OPERATION FREQUENCY EACH OF CHANNEL

BLE:

Operation	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
: :	: :	: :	: :	: :	:		: :
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

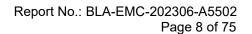
Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz

5 TEST ENVIRONMENT

Environment	Temperature	Voltage	
Normal	25°C	DC3.7V	

6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode
Remark:Only the data of the worst mode would be recorded in this report.For Radiated emission,	
1Mbps and 2Mbps mode all have been tested, only worse case 1Mbps mode is reported.	





7 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %
Radiated Emission(9kHz-30MHz)	±4.34dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Unwanted Radiated Emission (30MHz ~ 1000MHz)	±4.35 dB
Unwanted Radiated Emission (1GHz ~ 18GHz)	±4.44 dB



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8 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)

9 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,

China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.



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10 TEST INSTRUMENTS LIST

Test Equipm	Test Equipment Of Radiated Spurious Emissions							
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due			
Chamber 1	SKET	966	N/A	2023/11/16	2026/11/15			
Chamber 2	SKET	966	N/A	2021/07/20	2024/7/19			
Spectrum	R&S	FSP40	100817	2023/08/30	2024/08/29			
Receiver	R&S	ESR7	101199	2023/08/30	2024/08/29			
Receiver	R&S	ESPI7	101477	2023/07/07	2024/07/06			
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2022/10/12	2025/10/11			
Horn Antenna	Schwarzbeck	BBHA9120D	01892 P:00331	2022/09/13	2025/09/12			
Horn Antenna	Schwarzbeck	BBHA 9170	1106	2022/04/24	2024/04/23			
Amplifier	SKET	LNPA_30M01G-30	SK2021060801	2023/07/07	2024/07/06			
Amplifier	SKET	PA-000318G-45	N/A	2023/08/30	2024/08/29			
Amplifier	SKET	LNPA_18G40G-50	SK2022071301	2023/07/14	2024/07/13			
Filter group	SKET	2.4G/5G Filter group r	N/A	2023/07/07	2024/07/06			
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A			
Loop antenna	SCHNARZBE CK	FMZB1519B	00102	2022/09/14	2025/09/13			
1kHZ calibration audio source	SKET	MCS-ABT-C35	N/A	2023/09/04	2024/09/03			
Free Field Microphone	SKET	MGS MP 663	0414	2023/09/04	2024/09/03			
Audio shielding box	SKET	SB-ABT-C35	N/A	2023/03/30	2024/03/29			
Controller	SKET	N/A	N/A	N/A	N/A			
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A			



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Coaxial	Dhiadaia	DLA VC 02	NI/A	NI/A	NI/A
Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial	Dhiadaia	DI A VC 04	NI/A	NI/A	NI/A
Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A
Signal					
Generator	ECREDIX	DSG-1000	N/A	N/A	N/A
DTV					



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Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer Model		S/N	Cal.Date	Cal.Due	
Shield room	SKET	833	N/A	2023/11/16	2025/11/15	
Receiver	R&S	ESPI3	101082	2023/08/30	2024/08/29	
LISN	R&S	ENV216	3560.6550.15	2023/08/30	2024/08/29	
LISN	AT	AT166-2	AKK1806000003	2023/08/30	2024/08/29	
ISN	TESEQ	ISNT8-cat6	53580	2023/08/30	2024/08/29	
Single-channel						
vehicle artificial	Schwarzbeck	NNBM 8124	01045	2023/07/07	2024/07/06	
power network						
Single-channel						
vehicle artificial	Schwarzbeck	NNBM 8124	01075	2023/07/07	2024/07/06	
power network						
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A	

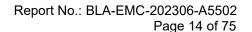
Test Equipment Of RF Conducted Test						
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due	
Spectrum	R&S	FSP40	100817	2023/08/30	2024/08/29	
Spectrum	Agilent	N9020A	MY49100060	2023/08/30	2024/08/29	
Spectrum	Agilent	N9020A	MY54420161	2023/08/30	2024/08/29	
Signal Generator	Agilent	N5182A	MY47420955	2023/08/30	2024/08/29	
Signal Generator	Agilent	N5181A	MY46240904	2023/07/07	2024/07/06	
Signal Generator	R&S	CMW500	132429	2023/08/30	2024/08/29	
BluetoothTester	Anritsu	MT8852B	06262047872	2023/08/30	2024/08/29	
Power probe	DARE	RPR3006W	14I00889SN042	2023/09/01	2024/08/31	
Power detection box	CDKMV	MW100-PSB	MW201020JYT	2023/07/07	2024/07/06	
DCPowersupply	zhaoxin	KXN-305D	20K305D1221363	2023/08/30	2024/08/29	
DCPowersupply	zhaoxin	RXN-1505D	19R1505D050168	2023/08/30	2024/08/29	



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2.4GHz/5GHz					
RF Test	MTS	MTS 8310	Version 2.0.0.0	N/A	N/A
software					
Audio Analyzer	Audio Precision	ATS-1	ATS141094	2023/07/07	2024/07/06







11 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

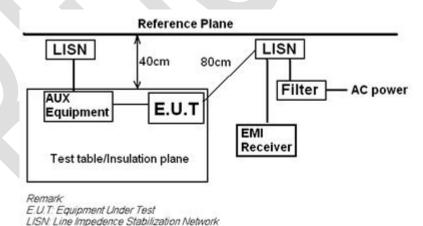
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25℃
Humidity	60%

11.1 LIMITS

Frequency of	Conducted	limit(dBμV)			
emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					

11.2 BLOCK DIAGRAM OF TEST SETUP

Test table height=0.8m



11.3 PROCEDURE

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.



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3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

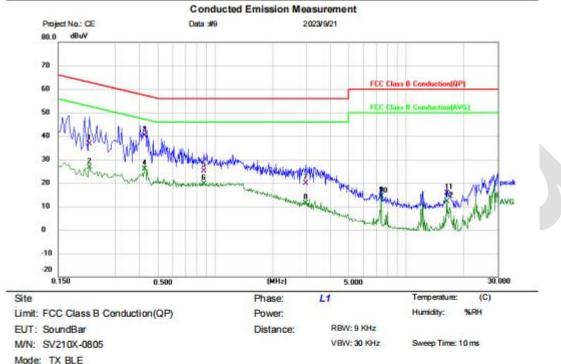
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



11.4 TEST DATA

[TestMode: TX]; [Line: Line]; [Power:AC120V/60Hz]

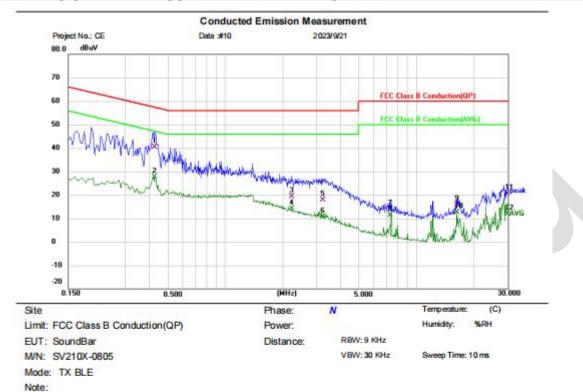


Mode: TX BLE Note:

0.2180 0.2180 0.2180	26.05 16.01	dB 10.56	dBuV 36.61	dBuV	dB	Detector	cm	degree	Comment
0.2180		(NY 5	36.61	and the same				and on	Commerc
8,355,755	16.01	40.50		62.89	-26.28	QP			
0.4220		10.56	26.57	52.89	-26.32	AVG			
	30.02	10.07	40.09	57.41	-17.32	QP			
0.4220	15.72	10.07	25.79	47.41	-21.62	AVG			
0.8700	14.96	10.10	25.06	56.00	-30.94	QP			
0.8700	9.59	10.10	19.69	46.00	-26.31	AVG			
2.9700	9.70	10.22	19.92	56.00	-36.08	QP			
2.9700	1.05	10.22	11.27	46.00	-34.73	AVG			
7.3740	4.41	10.08	14.49	60.00	-45.51	QP			
7.3740	3.96	10.08	14.04	50.00	-35.96	AVG			
16.2300	5.74	9.95	15.69	60.00	-44.31	QP			
16.2300	2.28	9.95	12.23	50.00	-37.77	AVG			
	0.4220 0.8700 0.8700 2.9700 2.9700 7.3740 7.3740 16.2300	0.4220 15.72 0.8700 14.96 0.8700 9.59 2.9700 9.70 2.9700 1.05 7.3740 4.41 7.3740 3.96 16.2300 5.74	0.4220 15.72 10.07 0.8700 14.96 10.10 0.8700 9.59 10.10 2.9700 9.70 10.22 2.9700 1.05 10.22 7.3740 4.41 10.08 7.3740 3.96 10.08 16.2300 5.74 9.95	0.4220 15.72 10.07 25.79 0.8700 14.96 10.10 25.06 0.8700 9.59 10.10 19.69 2.9700 9.70 10.22 19.92 2.9700 1.05 10.22 11.27 7.3740 4.41 10.08 14.49 7.3740 3.96 10.08 14.04 16.2300 5.74 9.95 15.69	0.4220 15.72 10.07 25.79 47.41 0.8700 14.96 10.10 25.06 56.00 0.8700 9.59 10.10 19.69 46.00 2.9700 9.70 10.22 19.92 56.00 2.9700 1.05 10.22 11.27 46.00 7.3740 4.41 10.08 14.49 60.00 7.3740 3.96 10.08 14.04 50.00 16.2300 5.74 9.95 15.69 60.00	0.4220 15.72 10.07 25.79 47.41 -21.62 0.8700 14.96 10.10 25.06 56.00 -30.94 0.8700 9.59 10.10 19.69 46.00 -26.31 2.9700 9.70 10.22 19.92 56.00 -36.08 2.9700 1.05 10.22 11.27 46.00 -34.73 7.3740 4.41 10.08 14.49 60.00 -45.51 7.3740 3.96 10.08 14.04 50.00 -35.96 16.2300 5.74 9.95 15.69 60.00 -44.31	0.4220 15.72 10.07 25.79 47.41 -21.62 AVG 0.8700 14.96 10.10 25.06 56.00 -30.94 QP 0.8700 9.59 10.10 19.69 46.00 -26.31 AVG 2.9700 9.70 10.22 19.92 56.00 -36.08 QP 2.9700 1.05 10.22 11.27 46.00 -34.73 AVG 7.3740 4.41 10.08 14.49 60.00 -45.51 QP 7.3740 3.96 10.08 14.04 50.00 -35.96 AVG 16.2300 5.74 9.95 15.69 60.00 -44.31 QP	0.4220 15.72 10.07 25.79 47.41 -21.62 AVG 0.8700 14.96 10.10 25.06 56.00 -30.94 QP 0.8700 9.59 10.10 19.69 46.00 -26.31 AVG 2.9700 9.70 10.22 19.92 56.00 -36.08 QP 2.9700 1.05 10.22 11.27 46.00 -34.73 AVG 7.3740 4.41 10.08 14.49 60.00 -45.51 QP 7.3740 3.96 10.08 14.04 50.00 -35.96 AVG 16.2300 5.74 9.95 15.69 60.00 -44.31 QP	0.4220 15.72 10.07 25.79 47.41 -21.62 AVG 0.8700 14.96 10.10 25.06 56.00 -30.94 QP 0.8700 9.59 10.10 19.69 46.00 -26.31 AVG 2.9700 9.70 10.22 19.92 56.00 -36.08 QP 2.9700 1.05 10.22 11.27 46.00 -34.73 AVG 7.3740 4.41 10.08 14.49 60.00 -45.51 QP 7.3740 3.96 10.08 14.04 50.00 -35.96 AVG 16.2300 5.74 9.95 15.69 60.00 -44.31 QP



[TestMode: TX]; [Line: Neutral];[Power:AC120V/60Hz]



Reading Correct Measure-Antenna Table No. Mk. Limit Over Freq. Level Factor ment Height Degree MHz dBuV dB dBuV dBuV dB Detecto Comment 30.25 0.4260 10.05 40.30 57.33 -17.03 QP 1 2 0.4260 17.65 10.05 27.70 47.33 -19.63 AVG 9.22 2.2340 10.09 56.00 QP 3 19.31 -36.69 4 2.2340 3.94 10.09 14.03 46.00 -31.97 AVG 3.2340 7.87 10.00 17.87 56.00 -38.13 QP 5 3.2340 46.00 6 0.73 10.00 10.73 -35.27 AVG 7 7.3140 4.08 9.88 13.96 60.00 -46.04QP 8 7.3140 1.46 9.88 11.34 50.00 -38.66 AVG 9 16.2300 5.89 10.03 15.92 60.00 -44.08 QP 10 16.2300 2.57 10.03 12.60 50.00 -37.40 AVG 29.9060 10.60 9.97 20.57 60.00 -39.43 QP 12 29.9060 1.93 9.97 11.90 50.00 -38.10 AVG



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12 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

12.1 LIMITS

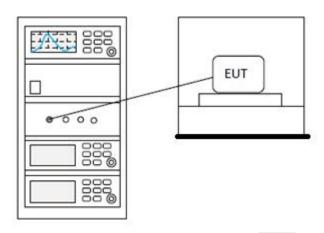
Limit:

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 §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)).



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12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details



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13 RADIATED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

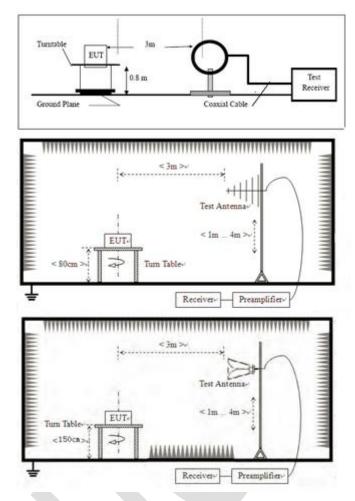
13.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

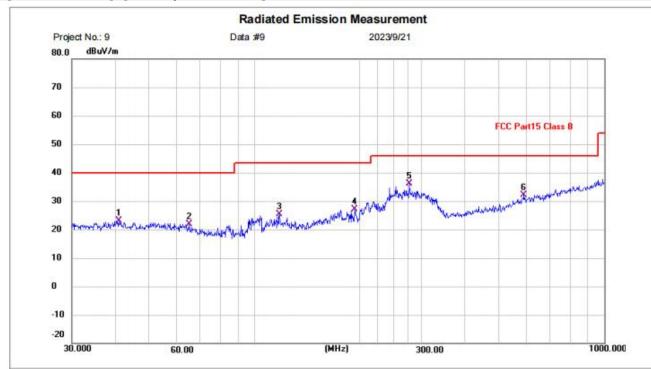


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13.4 TEST DATA

Below 1GHz

[TestMode: TX]; [Polarity: Horizontal]



Limit: FCC Part15 Class B

EUT: SoundBar M/N: SV210X-0805 Mode: TX BLE

Note:

Site

Polarization:	Horizontal	Temperature:	(C)
Power:		Humidity	%RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	40.8445	-0.62	23.77	23.15	40.00	-16.85	QP	Р	
2	64.8865	0.13	21.76	21.89	40.00	-18.11	QP	Р	
3	117.7725	4.10	21.31	25.41	43.50	-18.09	QP	Р	
4	193.0944	6.91	20.20	27.11	43.50	-16.39	QP	Р	
5 *	277.0935	13.85	22.28	36.13	46.00	-9.87	QP	Р	
6	588.9050	1.80	30.40	32.20	46.00	-13.80	QP	Р	

Temperature:

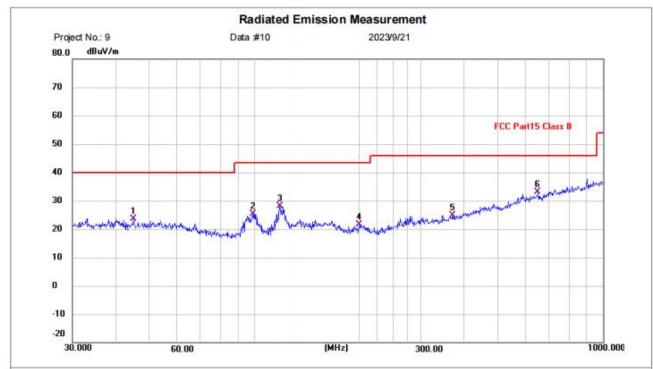
Humidity:

(C)

%RH



[TestMode: TX]; [Polarity: Vertical]



Site Limit: FCC Part15 Class B

EUT: SoundBar M/N: SV210X-0805 Mode: TX BLE

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	44.9006	-0.02	23.61	23.59	40.00	-16.41	QP	Р	
2	98.8326	6.11	19.29	25.40	43.50	-18.10	QP	Р	
3	118.1862	6.76	21.35	28.11	43.50	-15.39	QP	Р	
4	199.9856	1.61	20.09	21.70	43.50	-21.80	QP	Р	
5	369.4047	-0.08	25.07	24.99	46.00	-21.01	QP	Р	
6 *	649.6597	2.04	31.09	33.13	46.00	-12.87	QP	Р	

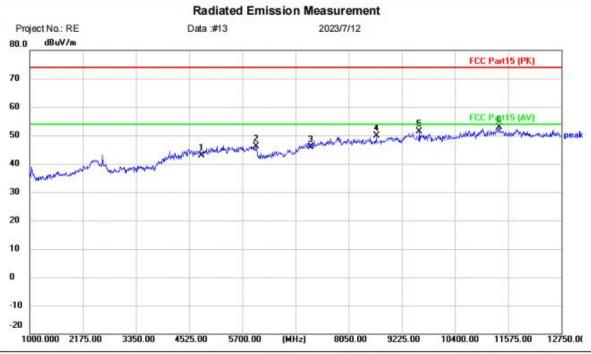
Power:

Polarization: Vertical

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Above 1GHz:

[TestMode: TX low channel]; [Polarity: Horizontal]



Site Polarization: Horizontal Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH

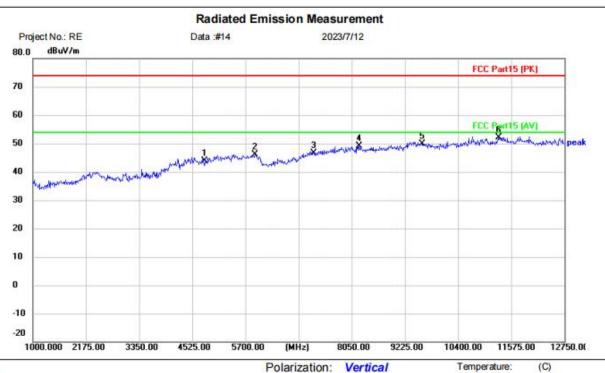
EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-L

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.000	38.49	4.51	43.00	74.00	-31.00	peak		
2		6005.500	42.67	3.55	46.22	74.00	-27.78	peak		
3		7206.000	38.46	7.41	45.87	74.00	-28.13	peak		
4		8661.000	40.19	9.76	49.95	74.00	-24.05	peak		
5		9612.750	39.80	11.59	51.39	74.00	-22.61	peak		
6	*	11375.25	39.43	13.40	52.83	74.00	-21.17	peak		



[TestMode: TX low channel]; [Polarity: Vertical]



Site Polarization: Vertical Temperature: (
Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-L

Note:

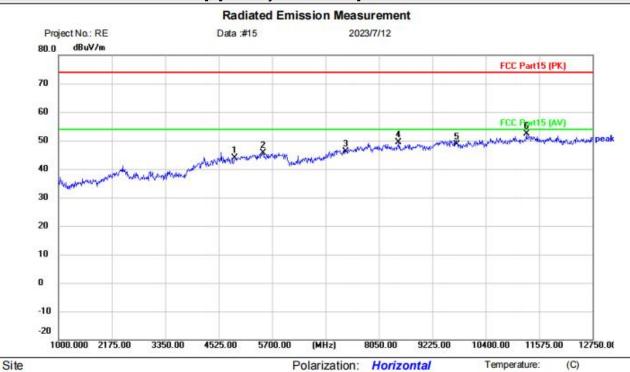
No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4804.000	39.32	4.51	43.83	74.00	-30.17	peak		
2		5911.500	39.41	6.75	46.16	74.00	-27.84	peak		
3		7206.000	39.12	7.41	46.53	74.00	-27.47	peak		
4		8214.500	40.59	8.57	49.16	74.00	-24.84	peak		
5		9608.000	38.32	11.59	49.91	74.00	-24.09	peak		
6	*	11293.00	38.88	13.37	52.25	74.00	-21.75	peak		

Humidity:

%RH



[TestMode: TX middle channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-M

Note:

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4884.000	39.28	4.62	43.90	74.00	-30.10	peak		
2	- 3	5500.250	39.47	6.25	45.72	74.00	-28.28	peak		
3		7326.000	38.41	7.82	46.23	74.00	-27.77	peak		
4		8484.750	40.02	9.37	49.39	74.00	-24.61	peak		
5		9768.000	36.74	11.77	48.51	74.00	-25.49	peak		
6	*	11293.00	39.00	13.37	52.37	74.00	-21.63	peak		

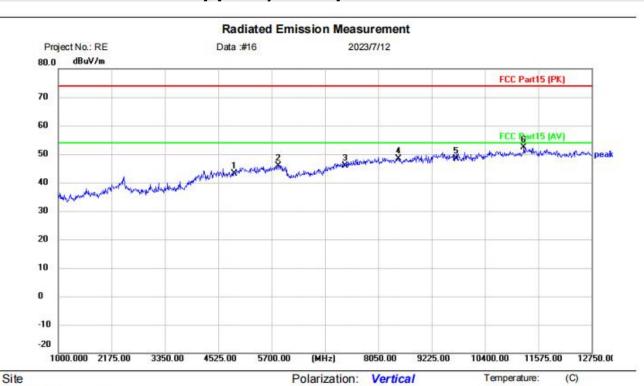
Power:

Humidity:

%RH



[TestMode: TX middle channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-M

Note:

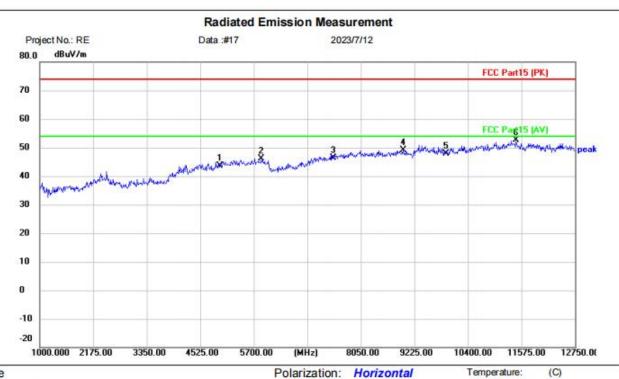
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4884.000	38.43	4.62	43.05	74.00	-30.95	peak		
2	- 3	5852.750	39.41	6.58	45.99	74.00	-28.01	peak		
3		7326.000	38.11	7.82	45.93	74.00	-28.07	peak		
4		8496.500	39.06	9.43	48.49	74.00	-25.51	peak		
5		9768.000	36.60	11.77	48.37	74.00	-25.63	peak		
6	*	11257.75	38.94	13.34	52.28	74.00	-21.72	peak		

Power:

%RH



[TestMode: TX High channel]; [Polarity: Horizontal]



Site Polarization: Horizontal Temperat
Limit: FCC Part15 (PK) Power: Humidity:

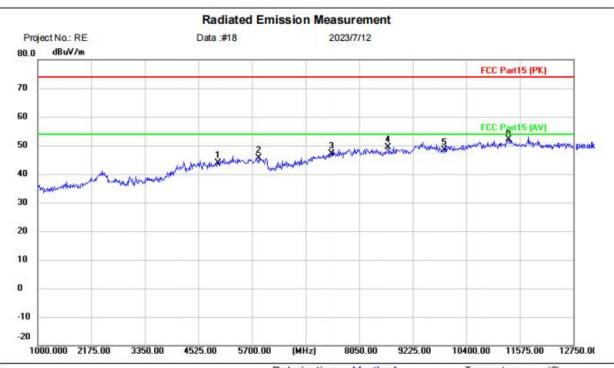
EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-H

Note:

No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.000	38.05	5.47	43.52	74.00	-30.48	peak		
2	000	5864.500	39.54	6.62	46.16	74.00	-27.84	peak		
3		7440.000	38.13	8.24	46.37	74.00	-27.63	peak		
4		8978.250	38.48	10.59	49.07	74.00	-24.93	peak		
5		9920.000	35.99	11.96	47.95	74.00	-26.05	peak		
6	*	11457.50	39.05	13.48	52.53	74.00	-21.47	peak		



[TestMode: TX High channel]; [Polarity: Vertical]



Site Polarization: Vertical Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-H

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4960.000	38.36	5.47	43.83	74.00	-30.17	peak		
2		5852.750	39.03	6.58	45.61	74.00	-28.39	peak		
3		7440.000	38.99	8.24	47.23	74.00	-26.77	peak		
4		8684.500	39.62	9.84	49.46	74.00	-24.54	peak		
5		9920.000	36.49	11.96	48.45	74.00	-25.55	peak		
6	*	11328.25	38.62	13.39	52.01	74.00	-21.99	peak		



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14 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

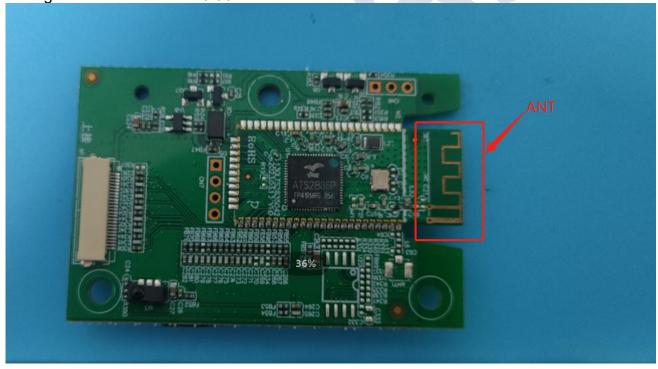
14.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.96dBi.





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15 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 6.10.5					
Test Mode (Pre-Scan)	TX					
Test Mode (Final Test)	TX					
Tester	Charlie					
Temperature	25℃					
Humidity	60%					

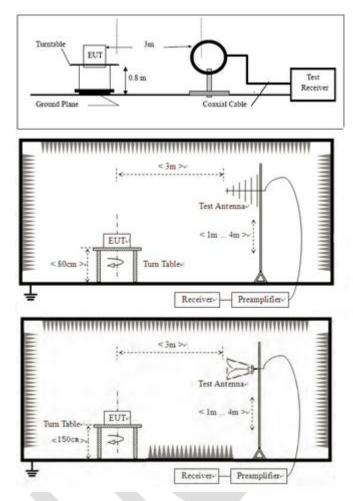
15.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



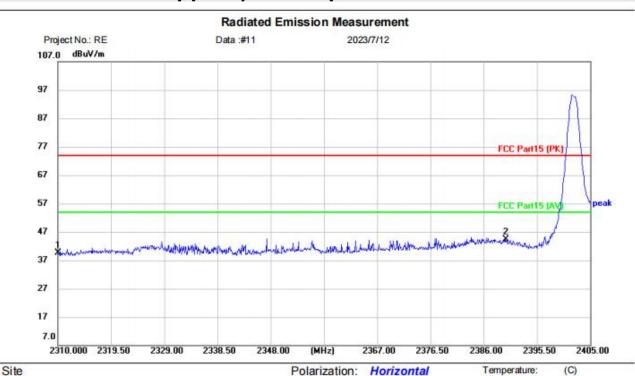
Humidity:

%RH



15.4 TEST DATA

[TestMode: TX low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-L

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.96	-4.40	39.56	74.00	-34.44	peak		
2	*	2390.000	48.80	-4.31	44.49	74.00	-29.51	peak		

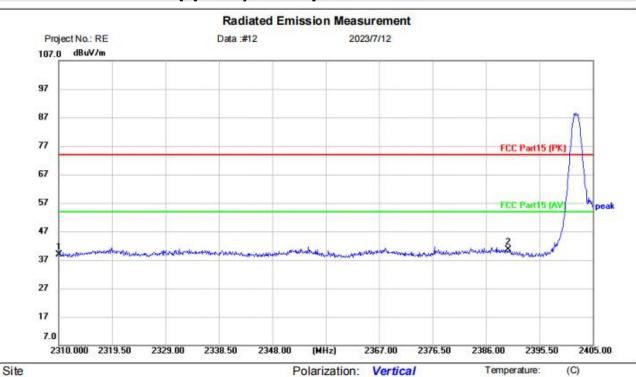
Power:

Humidity:

%RH



[TestMode:TX low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-L

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2310.000	43.30	-4.40	38.90	74.00	-35.10	peak		
2	*	2390.000	44.88	-4.31	40.57	74.00	-33.43	peak		

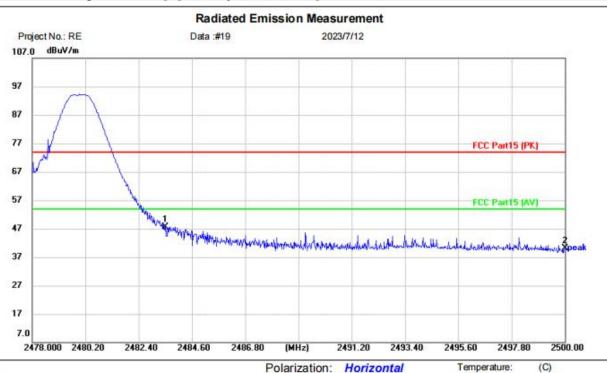
Power:

Humidity:

%RH



[TestMode: TX High channel]; [Polarity: Horizontal]



Site Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-H

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	52.24	-4.64	47.60	74.00	-26.40	peak		
2		2500.000	44.76	-4.75	40.01	74.00	-33.99	peak		

Power:

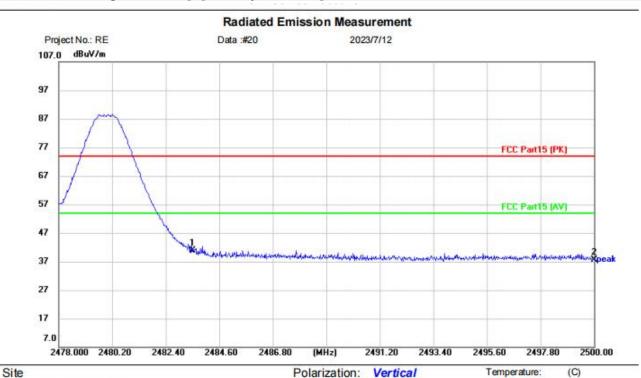
Test Result: Pass

Humidity:

%RH



[TestMode:TX High channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)

EUT: SoundBar M/N: SV210X-0805 Mode: BLE 1M-TX-H

Note:

No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	45.44	-4.64	40.80	74.00	-33.20	peak		
2		2500.000	42.41	-4.75	37.66	74.00	-36.34	peak		

Power:

Test Result: Pass



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16 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

16.1 LIMITS

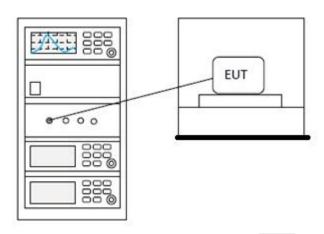
Limit:

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 §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)).





16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA



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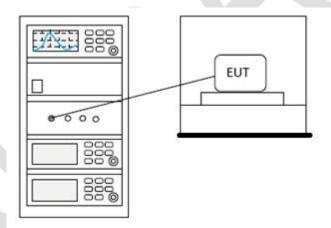
17 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 11.10.2		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

17.1 LIMITS

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA



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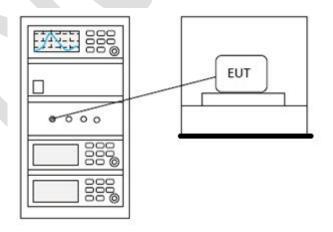
18 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 7.8.5		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

18.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5505 5050	1 for frequency hopping systems and digital		
5725-5850	modulation		

18.2 BLOCK DIAGRAM OF TEST SETUP





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18.3 TEST DATA





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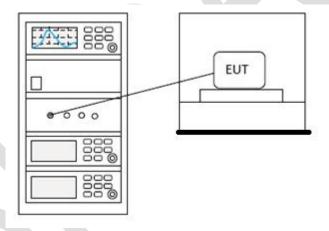
19 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247		
Test Method	ANSI C63.10 (2013) Section 11.8.1		
Test Mode (Pre-Scan)	TX		
Test Mode (Final Test)	TX		
Tester	Charlie		
Temperature	25℃		
Humidity	60%		

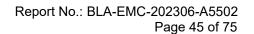
19.1 LIMITS

Limit:	≥500 kHz
--------	----------

19.2 BLOCK DIAGRAM OF TEST SETUP



19.3 TEST DATA





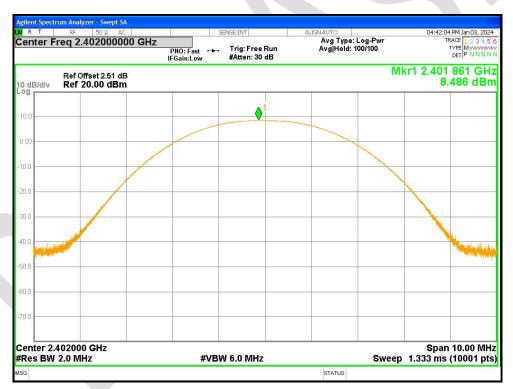
20 APPENDIX

Appendix1

20.1 MAXIMUM CONDUCTED OUTPUT POWER

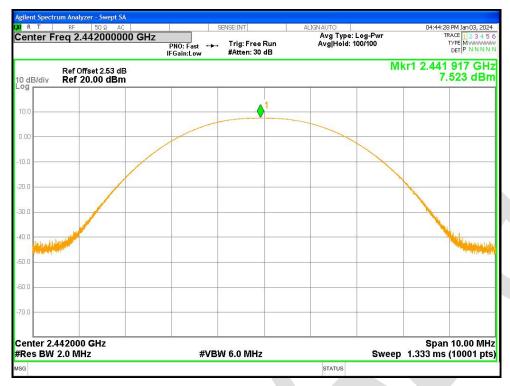
Condition	Mode	Frequency	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
		(MHz)				
NVNT	BLE 1M	2402	Ant1	8.486	30	Pass
NVNT	BLE 1M	2442	Ant1	7.523	30	Pass
NVNT	BLE 1M	2480	Ant1	7.143	30	Pass
NVNT	BLE 2M	2402	Ant1	8.263	30	Pass
NVNT	BLE 2M	2442	Ant1	7.301	30	Pass
NVNT	BLE 2M	2480	Ant1	6.881	30	Pass

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2442MHz Ant1





Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1





Power NVNT BLE 2M 2442MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



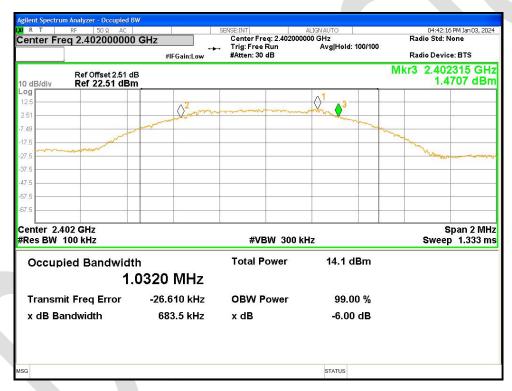




20.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.683	0.5	Pass
NVNT	BLE 1M	2442	Ant1	0.692	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.697	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.176	0.5	Pass
NVNT	BLE 2M	2442	Ant1	1.145	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.152	0.5	Pass

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1





-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1







20.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.034863134
NVNT	BLE 1M	2442	Ant1	1.038300968
NVNT	BLE 1M	2480	Ant1	1.0294167
NVNT	BLE 2M	2402	Ant1	1.965352755
NVNT	BLE 2M	2442	Ant1	1.957750594
NVNT	BLE 2M	2480	Ant1	1.942943488

OBW NVNT BLE 1M 2402MHz Ant1



OBW NVNT BLE 1M 2442MHz Ant1





OBW NVNT BLE 1M 2480MHz Ant1

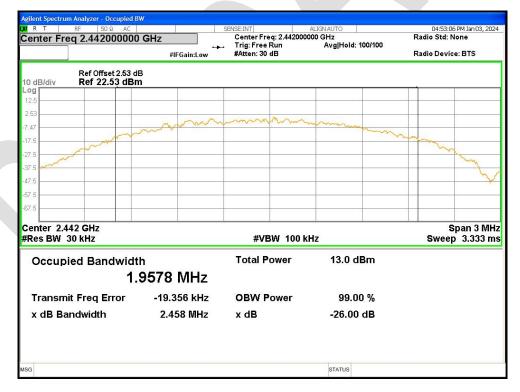


OBW NVNT BLE 2M 2402MHz Ant1





OBW NVNT BLE 2M 2442MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1







20.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-7.092	8	Pass
NVNT	BLE 1M	2442	Ant1	-8.046	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.436	8	Pass
NVNT	BLE 2M	2402	Ant1	-10.756	8	Pass
NVNT	BLE 2M	2442	Ant1	-11.586	8	Pass
NVNT	BLE 2M	2480	Ant1	-12.752	8	Pass

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2442MHz Ant1





PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1





PSD NVNT BLE 2M 2442MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1







20.5 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-61.16	-30	Pass
NVNT	BLE 1M	2480	Ant1	-59.87	-30	Pass
NVNT	BLE 2M	2402	Ant1	-61.18	-30	Pass
NVNT	BLE 2M	2480	Ant1	-59.19	-30	Pass

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission





Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission