Report No.: DDT-R22040126-2E02

Issued Date: Jun. 8, 2022

FCC AND ISED CERTIFICATION TEST REPORT

FOR

Applicant	:	Edifier International Limited
Address	:	P. O. Box 6264 General Post Office Hong Kong
Equipment under Test	:	Soundbar
Model No.	:	EDF100026
HVIN	:	EDF100026
Trade Mark	:	EDIFIER
FCC ID	:	Z9G-EDF181
IC	:	10004A-EDF181
Manufacturer	:	Beijing Edifier Technology Co., Ltd
Address	:	8th floor, ZuoAn Building, NO. 68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com

REPORT

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Test Report Declare

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Address	:	8th floor, ZuoAn Building, NO. 68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-210 Issue 10 December 2019, Amendment (April 2020).

Test procedure used:

ANSI C63.10:2013, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021).

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.

Report No:	DDT-R22040126-2E02		
Date of Receipt:	Apr. 2, 2022	**Date of Test:**	Apr. 2, 2022 ~ May 25, 2022

Prepared By: ***Approved By:***

Jacky Huang

Jacky Huang/Engineer ***Damon Hu/EMC Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 8, 2022	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	**Standard**	**Results**
20 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.215 ANSI C63.10:2013 RSS-210 Issue 10 RSS-Gen Issue 5	Pass
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.249 ANSI C63.10:2013 RSS-210 Issue 10 RSS-Gen Issue 5	Pass
Band Edge Compliance	FCC Part 15: 15.205 FCC Part 15: 15.249 ANSI C63.10:2013 RSS-210 Issue 10 RSS-Gen Issue 5	Pass
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013 RSS-Gen Issue 5	Pass
Antenna Requirement	FCC Part 15: 15.203 RSS-Gen Issue 5	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	:	Soundbar
Model Number	:	EDF100026
EUT function description	:	Please reference user manual of this device
Power Supply	:	DC 18V/3A by an external adapter
Radio Specification	:	5.8GHz Wireless
5.8GHz Model Number	:	EV01SA
Operation frequency	:	5731 MHz - 5820 MHz
Modulation	:	FSK
Antenna Gain	:	Maximum PK gain: 1.57 dBi
Serial Number	:	NA
Sample Number	:	S22040126-02, S22040126-03

Note: EUT is the abbreviation of equipment under test.

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5731	14	5777
2	5733	15	5781
3	5737	16	5787
4	5739	17	5791
5	5743	18	5793
6	5747	19	5797
7	5751	20	5801
8	5753	21	5807
9	5757	22	5811
10	5761	23	5813
11	5767	24	5817
12	5771	25	5820
13	5773	\	\

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
AC cable	N/A	N/A	Length: 1.80m, unshielded
OPT cable	N/A	N/A	Length: 1.55m, unshielded
Line-AUX cable	N/A	N/A	Length: 1.75m, unshielded
HDMI cable	N/A	N/A	Length: 1.50m, unshielded
Remote control	N/A	N/A	N/A
AC adapter	Beijing Edifier Technology Co., Ltd	ADT-60180	Input: 100-240V~50/60Hz 1.5A Output: DC 18V3.00A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test

AC mains —— [AC Adapter] —— [EUT]

Test software: EMI_Tool
The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
FSK Tx mode	5	CH1	5731
	5	CH13	5773
	5	CH25	5820

2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 ℃
Humidity range:	40-75%
Pressure range:	86-106 kPa

2.6. Deviations of test standard

No deviation.

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

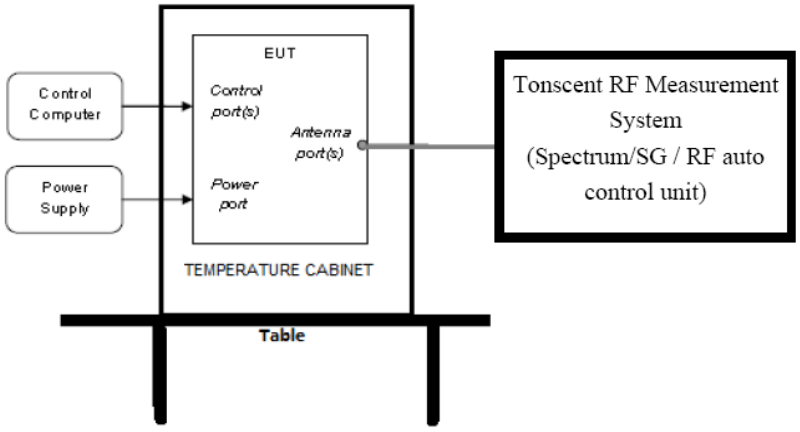
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB (10 MHz ≤ f < 3.6 GHz);
	1.38 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 x 10^{-8} (Antenna couple method)
	5.5 x 10^{-8} (Conducted method)
Conducted Spurious Emissions	0.86 dB (10 MHz ≤ f < 3.6 GHz);
	1.40 dB (3.6 GHz ≤ f < 8 GHz)
	1.66 dB (8 GHz ≤ f < 22 GHz)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 ℃
Humidity	2 %
Uncertainty for Radiation Emission Test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.32 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒RF Connected Test (Tonscend RF Measurement System 3#)					
Signal analyzer	R&S	FSQ26	101272	Jun. 01, 2021	1 Year
Wideband Radio Communication tester	R&S	CMW500	117491	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY19060405	Jun. 01, 2021	1 Year
Vector Signal Generator	Agilent	N5182A	MY48180912	Jun. 01, 2021	1 Year
RF Control Unit	Tonsend	JS0806-2	DDT-ZC01449	Jun. 01, 2021	1 Year
Temp&Humi Programmable	ZHIXIANG	ZXGDJS-150L	ZX170110-A	Jun. 01, 2021	1 Year
Test Software	JS Tonscend	JS1120-3	Ver.2.6.77.0518	N/A	N/A
☒Radiation 3#chamber					
EMI Test Receiver	R&S	ESU	100472	Jun. 01, 2021	1 Year
Spectrum analyzer	Agilent	E4447A	MY50180031	Jun. 01, 2021	1 Year
Active Loop antenna	Schwarzbeck	FMZB-1519	1519-038	Sep. 19, 2021	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	01429	Aug. 07, 2021	1 Year
Double Ridged Horn Antenna	Schwarzbeck	BBHA9120	02468	Nov. 17, 2021	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	May 06, 2022	1 Year
Pre-amplifier	COM-POWER	PAM-118A	18040084	Sep. 02, 2021	1 Year
Pre-amplifier	COM-POWER	PAM-840A	461369	Apr. 11, 2022	1 Year
Test software	Audix	E3	V 6.1.1.1	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	100551	Sep. 02, 2021	1 Year
LISN 1	R&S	ENV216	101109	Sep. 07, 2021	1 Year
LISN 2	R&S	ESH2-Z5	100309	Sep. 07, 2021	1 Year
Pulse Limiter	R&S	ESH3-Z2	101242	Sep. 02, 2021	1 Year
CE Cable 1	HUBSER	N/A	W10.01	Sep. 02, 2021	1 Year
Test software	Audix	E3	V 6.11111b	N/A	N/A

4 Duty Cycle

4.1. Block diagram of test setup



4.2. Limits

None: for reporting purposes only.

4.3. Test procedure

Set the Centre frequency of the spectrum analyzer to the transmitting frequency;

Set the span = 0, RBW = 3 MHz, VBW = 3 MHz, Sweep time = 100 ms;

Trace mode = Single hold.

4.4. Test result

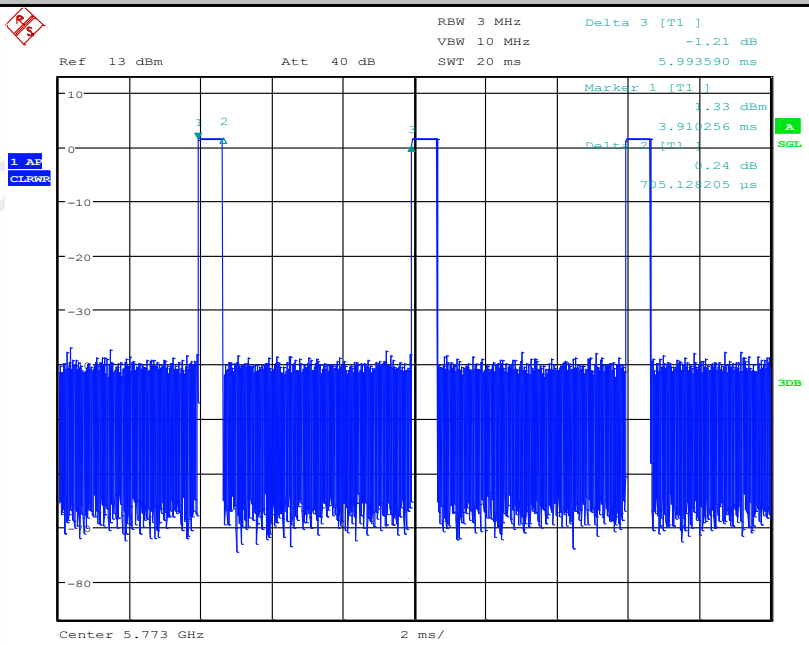
Test Channel [MHz]	Duty Cycle [%]	20log(Δ) Factor[dB]
5773	12.26	-18.42

Average value:	
Calculate Formula:	Average value = Peak value + PDCF
	PDCF = 20 log(Duty cycle)
	Duty cycle = $T_{on\ time}$ / T_{period}
Test data:	$T_{on\ time}$ = (0.705*17) ms = 11.99 ms
	T_{period} = 100 ms
	PDCF = 20 log(Duty cycle) = 20 log(11.99/100) = -18.42 dB

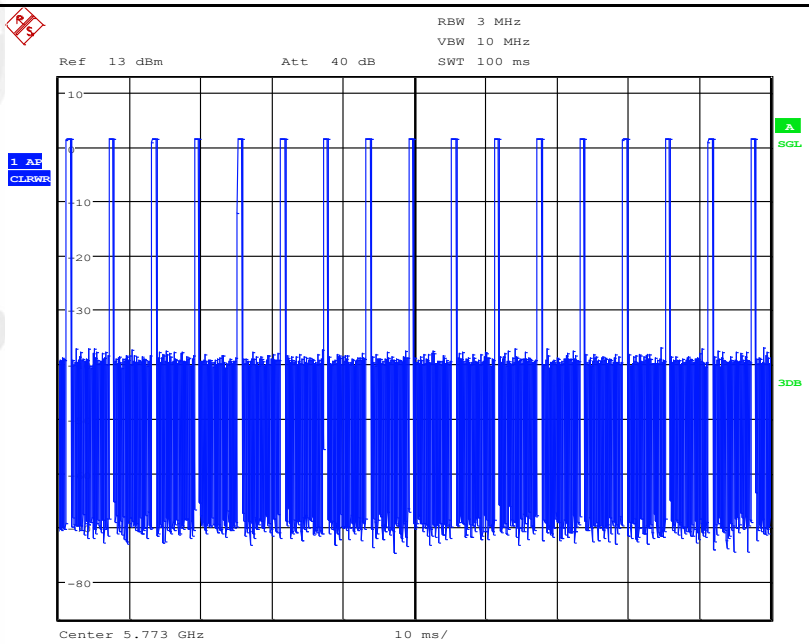
Note: The high, middle and low channels have the same duty cycle, and the test results only show the middle channel.

4.5. Original test data

Duty Cycle



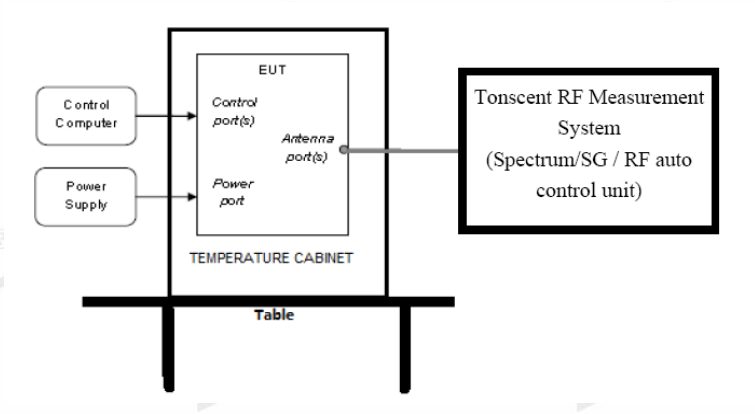
Date: 26.APR.2022 14:19:49



Date: 26.APR.2022 14:20:18

5. 20 dB Bandwidth and 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Set the spectrum analyzer as follows:

RBW:	30 kHz
VBW:	100 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, measure the 20 dB and 99% bandwidth of signal.

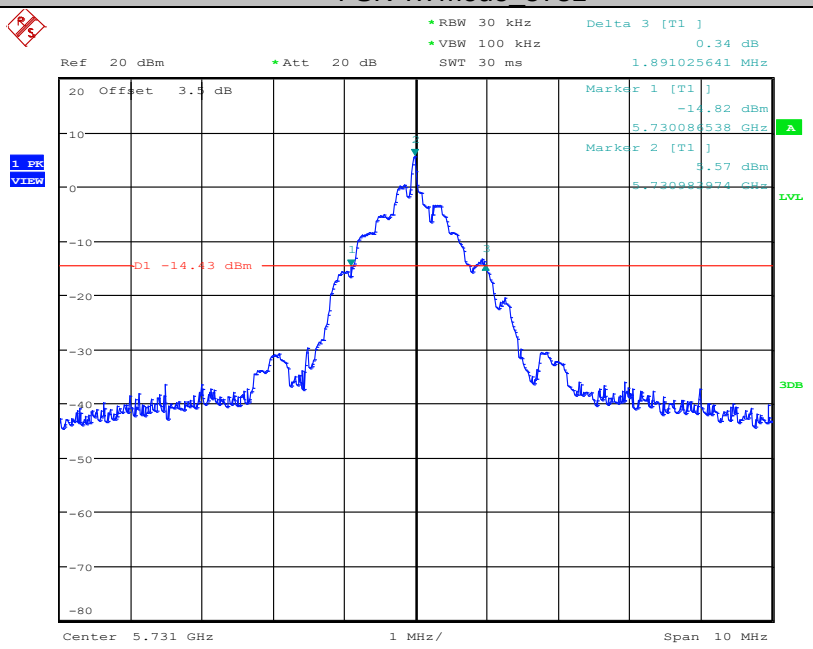
5.4. Test result

Test Mode	Freq. (MHz)	20 dB bandwidth Result (MHz)	99% bandwidth Result (MHz)	Verdict
FSK Tx mode	5731	1.891	2.070	Pass
	5773	1.875	2.060	Pass
	5820	2.003	2.070	Pass

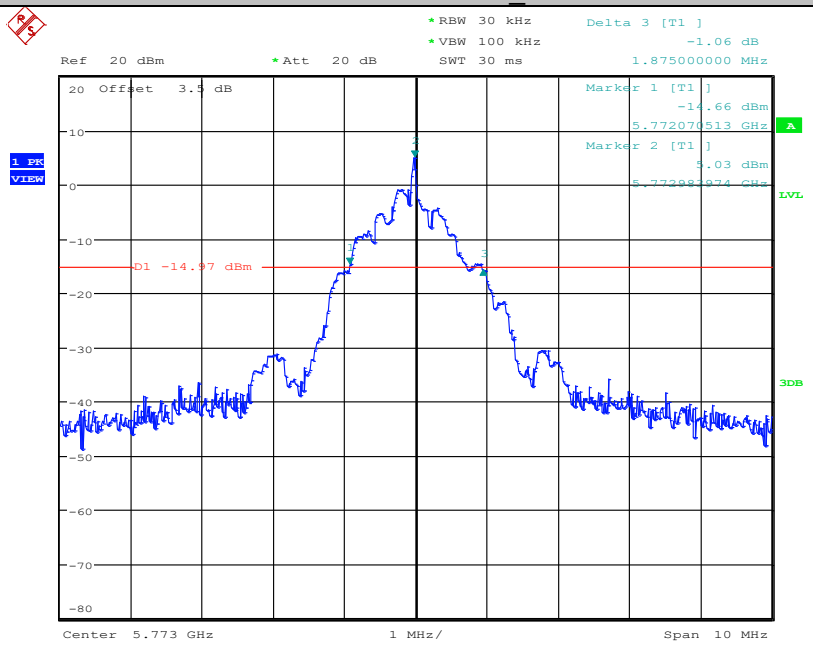
5.5. Original test data

20 dB bandwidth:

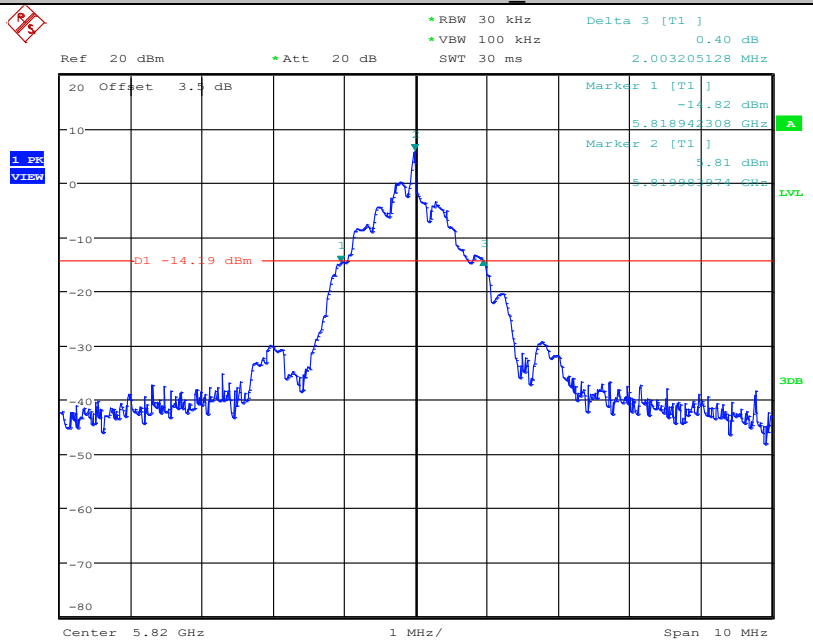
FSK Tx mode_5731



FSK Tx mode_5773



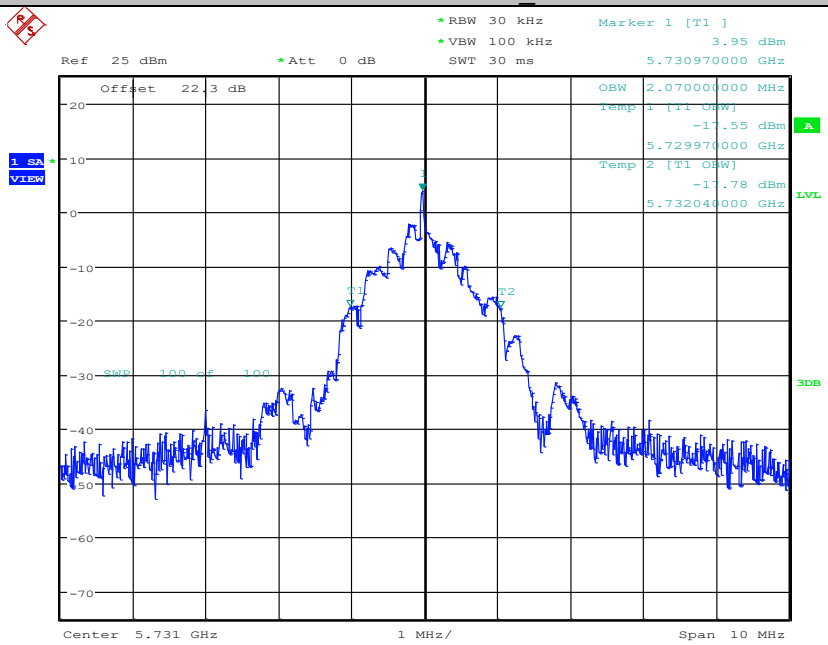
FSK Tx mode_5820



Date: 7.MAY.2022 17:08:38

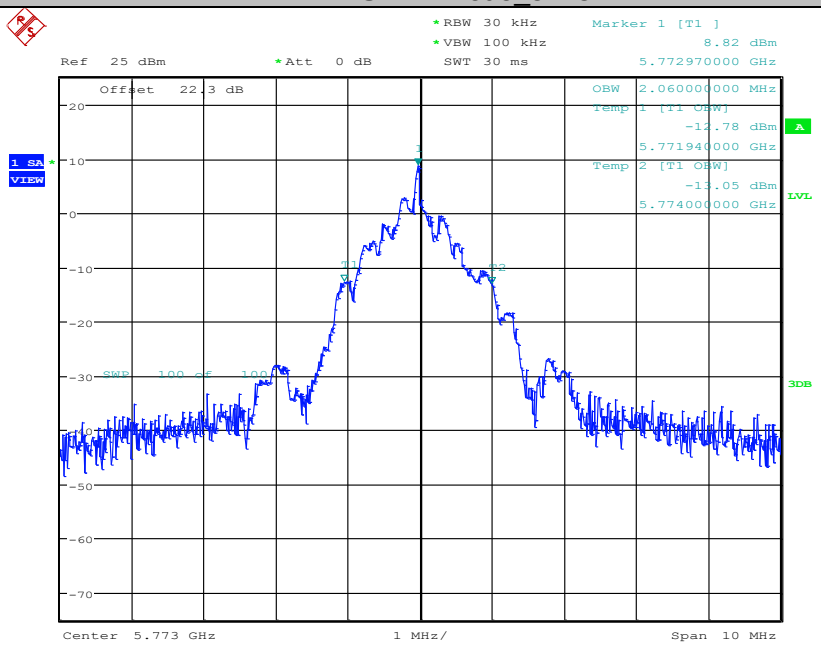
99% bandwidth:

FSK Tx mode_5731



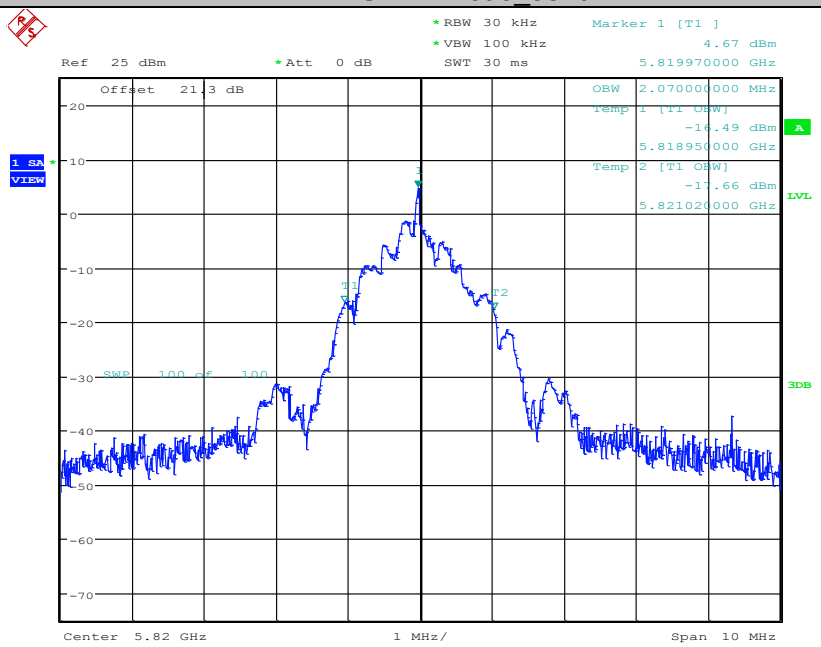
Date: 13.APR.2022 15:10:15

FSK Tx mode_5773



Date: 13.APR.2022 15:31:44

FSK Tx mode_5820

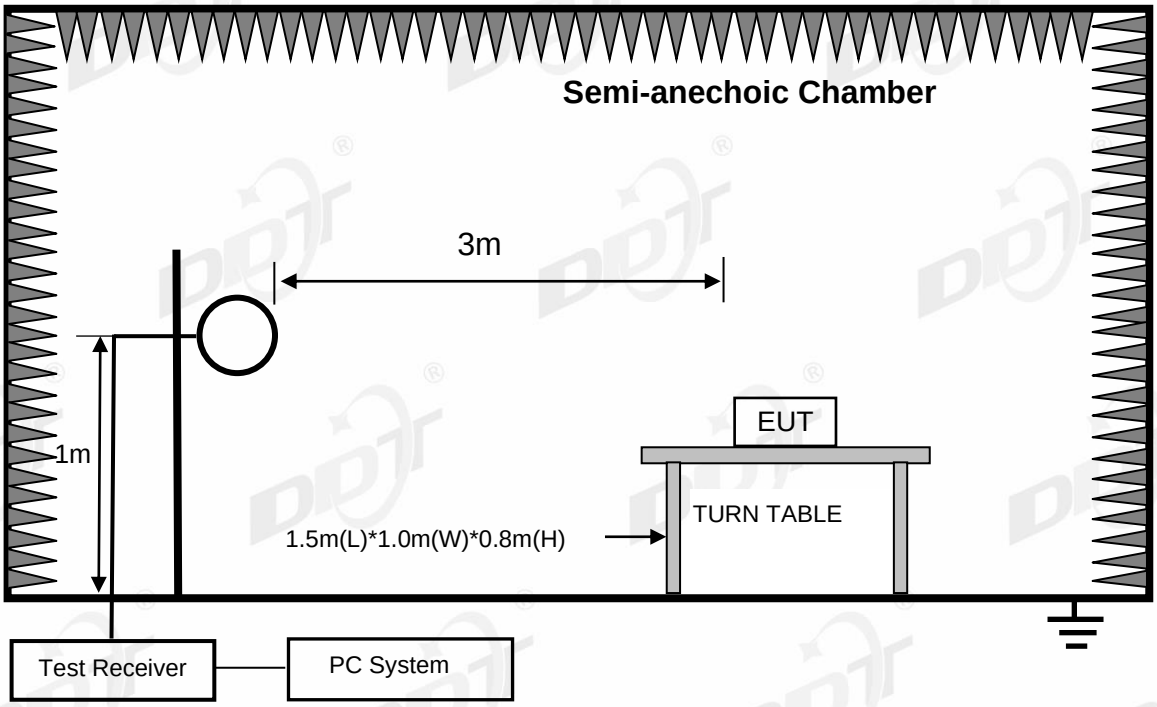


Date: 13.APR.2022 16:27:34

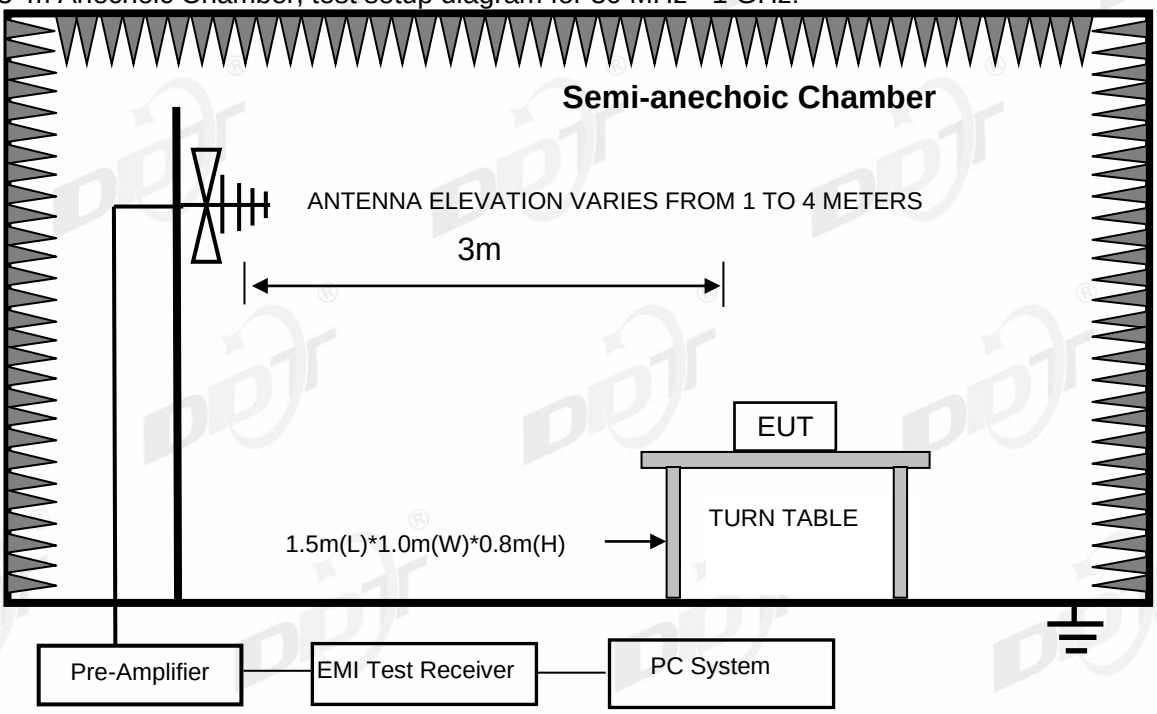
6. Radiated Emission

6.1. Block diagram of test setup

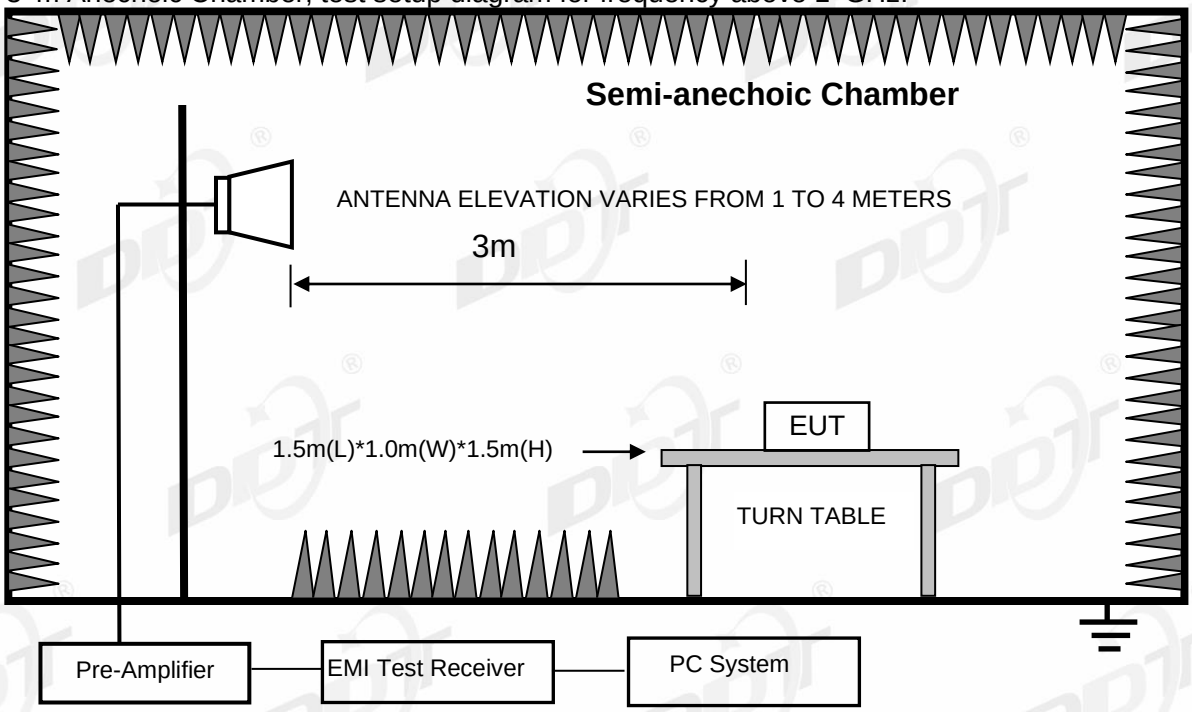
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

6.2. Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000 MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of Fundamental emission for 5725 MHz - 5875 MHz	3	94.0 dB(μV)/m (Average) 114.0 dB(μV)/m (Peak)	
Field Strength of Harmonics	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark:

(1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz, radiated emission limits in these three bands are based on measurements employing an average detector.

6.3. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.

(2) Setup EUT and assistant system according clause 2.3

(3) Test antenna was located 3 m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.

(a) Change work frequency or channel of device if practicable.

(b) Change modulation type of device if practicable.

(c) Change power supply range from 85% to 115% of the rated supply voltage

(d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions

(4) Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

(5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(6) For emissions from 30 MHz to 1 GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.

(7) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For fundamental frequency test, set spectrum analyzer’s RBW = 3 MHz, VBW = 10 MHz. Peak detector for PK, according ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

6.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 40 GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in FSK, Tx 5731 MHz mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Note4: For simultaneous transmission of multiple channels in the 2.4GHz BT and 5.8GHz SRD bands, no noticeable emission was found. This report only records the worst case of 2.4GHz BT and 5.8GHz SRD combined emission.

Field Strength of the Fundamental Signal

Frequency (MHz)	PK Level (dBuV/m)	PK Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5731	101.99	114.00	-12.01	Horizontal
5773	102.48	114.00	-11.52	Horizontal
5820	100.24	114.00	-13.76	Horizontal
5731	100.48	114.00	-13.52	Vertical
5773	99.98	114.00	-14.02	Vertical
5820	98.60	114.00	-15.40	Vertical

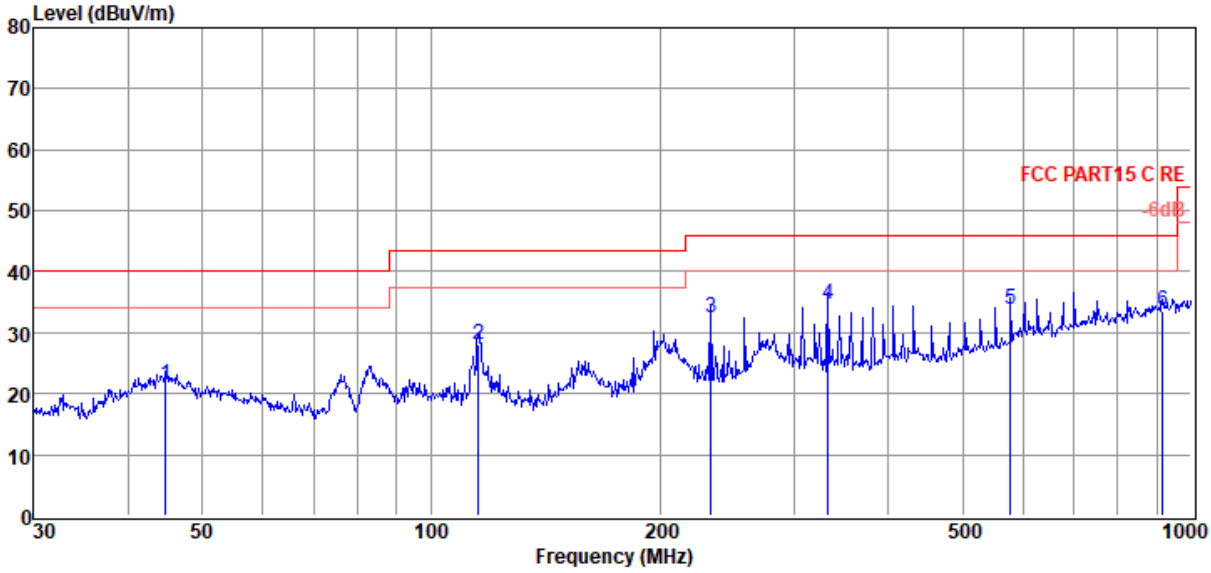
Frequency (MHz)	AV Level (dBuV/m)	AV Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5731	83.57	94.00	-10.43	Horizontal
5773	84.06	94.00	-9.94	Horizontal
5820	81.82	94.00	-12.18	Horizontal
5731	82.06	94.00	-11.94	Vertical
5773	81.56	94.00	-12.44	Vertical
5820	80.18	94.00	-13.82	Vertical
Note: AV Level = PK Level + PDCF, PDCF = -18.42 dB				

Radiated Emission test (below 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC BELOW 1G.EM6	
Test Date	: 2022-04-11	**Tested By**	: Kennys Zhang
EUT	: Soundbar	**Model Number**	: EDF100026(B700)
Power Supply	: AC 120V 60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2021 VLUB 9163 3#/3m/HORIZONTAL
Memo	: SRD		

Data:
3



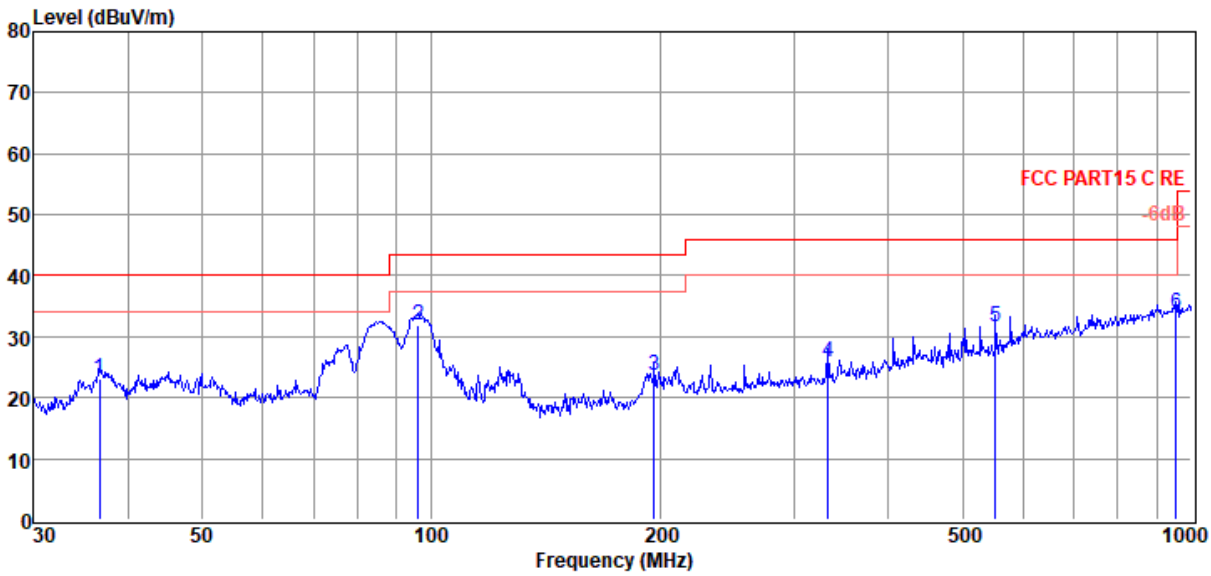
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	44.74	2.81	15.07	3.64	21.52	40.00	-18.48	QP	HORIZONTAL
2	115.32	14.30	9.64	4.08	28.02	43.50	-15.48	QP	HORIZONTAL
3	233.35	15.64	12.20	4.59	32.43	46.00	-13.57	QP	HORIZONTAL
4	332.52	15.55	14.15	4.94	34.64	46.00	-11.36	QP	HORIZONTAL
5	578.67	9.99	18.17	5.67	33.83	46.00	-12.17	QP	HORIZONTAL
6	916.07	4.59	22.40	6.51	33.50	46.00	-12.50	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC BELOW 1G.EM6	
Test Date	: 2022-04-11	**Tested By**	: Kennys Zhang
EUT	: Soundbar	**Model Number**	: EDF100026(B700)
Power Supply	: AC 120V 60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2021 VLUB 9163 3#/3m/VERTICAL
Memo	: SRD		

Data:
4



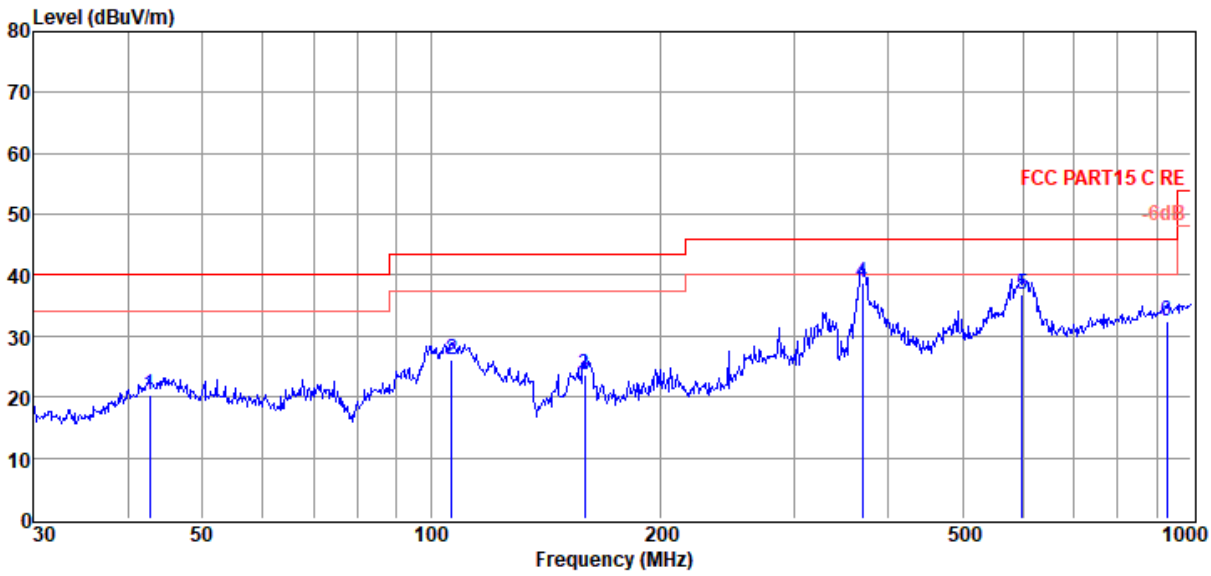
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	36.64	9.58	10.05	3.59	23.22	40.00	-16.78	QP	VERTICAL
2	96.10	16.61	11.22	3.96	31.79	43.50	-11.71	QP	VERTICAL
3	196.51	7.48	11.80	4.44	23.72	43.50	-19.78	QP	VERTICAL
4	332.52	6.87	14.15	4.94	25.96	46.00	-20.04	QP	VERTICAL
5	552.88	8.49	17.50	5.59	31.58	46.00	-14.42	QP	VERTICAL
6	955.44	4.99	22.19	6.60	33.78	46.00	-12.22	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC BELOW 1G.EM6	
Test Date	: 2022-05-09	**Tested By**	: Kennys Zhang
EUT	: Soundbar	**Model Number**	: EDF100026(B700)
Power Supply	: AC 120V 60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2021 VLUB 9163 #3/3m/HORIZONTAL
Memo	: BT+5.8G SRD Worst case		

Data:
7



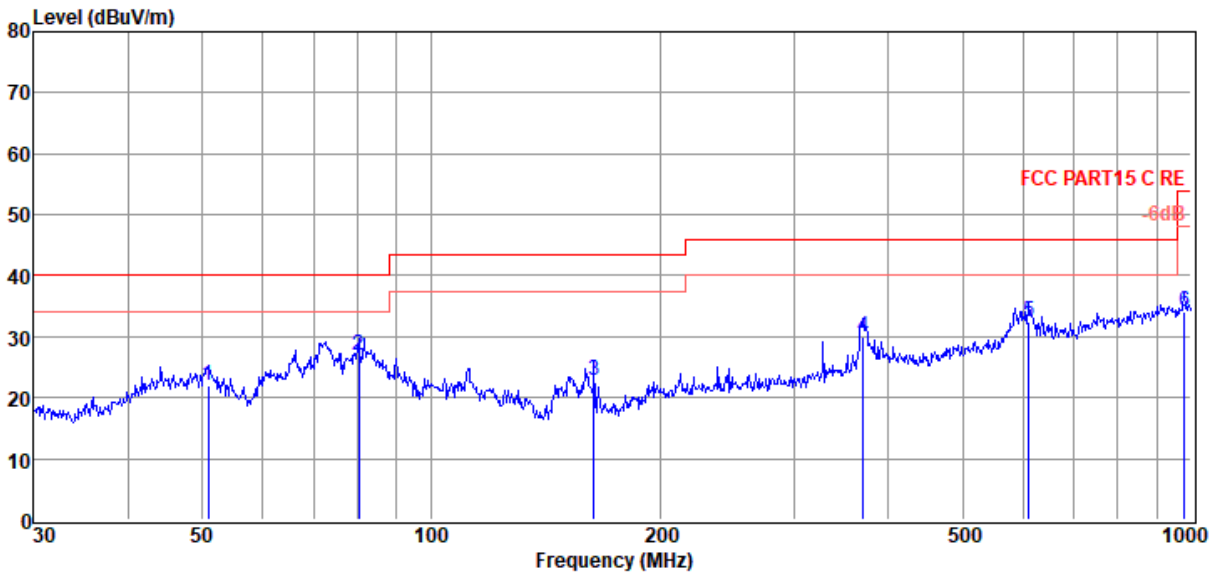
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	42.60	2.47	14.16	3.63	20.26	40.00	-19.74	QP	HORIZONTAL
2	106.39	11.16	10.82	4.02	26.00	43.50	-17.50	QP	HORIZONTAL
3	159.23	10.76	8.50	4.30	23.56	43.50	-19.94	QP	HORIZONTAL
4	369.41	18.89	14.78	5.06	38.73	46.00	-7.27	QP	HORIZONTAL
5	599.32	11.89	19.10	5.74	36.73	46.00	-9.27	QP	HORIZONTAL
6	929.01	3.38	22.40	6.53	32.31	46.00	-13.69	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC BELOW 1G.EM6	
Test Date	: 2022-05-09	**Tested By**	: Kennys Zhang
EUT	: Soundbar	**Model Number**	: EDF100026(B700)
Power Supply	: AC 120V 60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:24.5°C,Humi:55%,Press:100.1kPa	**Antenna/Distance**	: 2021 VLUB 9163 #3/3m/VERTICAL
Memo	: BT+5.8G SRD Worst case		

Data:
8



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	50.94	5.90	12.51	3.68	22.09	40.00	-17.91	QP	VERTICAL
2	80.36	14.63	8.31	3.88	26.82	40.00	-13.18	QP	VERTICAL
3	163.76	9.81	8.60	4.31	22.72	43.50	-20.78	QP	VERTICAL
4	370.70	10.08	14.80	5.06	29.94	46.00	-16.06	QP	VERTICAL
5	612.06	7.46	19.16	5.77	32.39	46.00	-13.61	QP	VERTICAL
6	979.18	4.95	22.30	6.73	33.98	54.00	-20.02	QP	VERTICAL

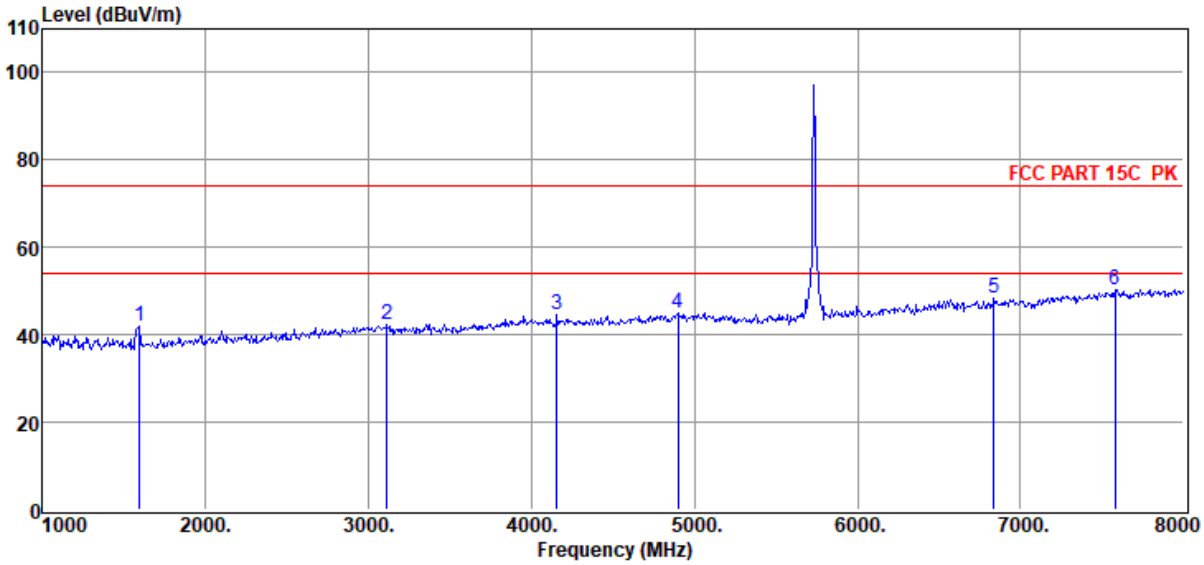
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5731 Power：5		

Data: 1



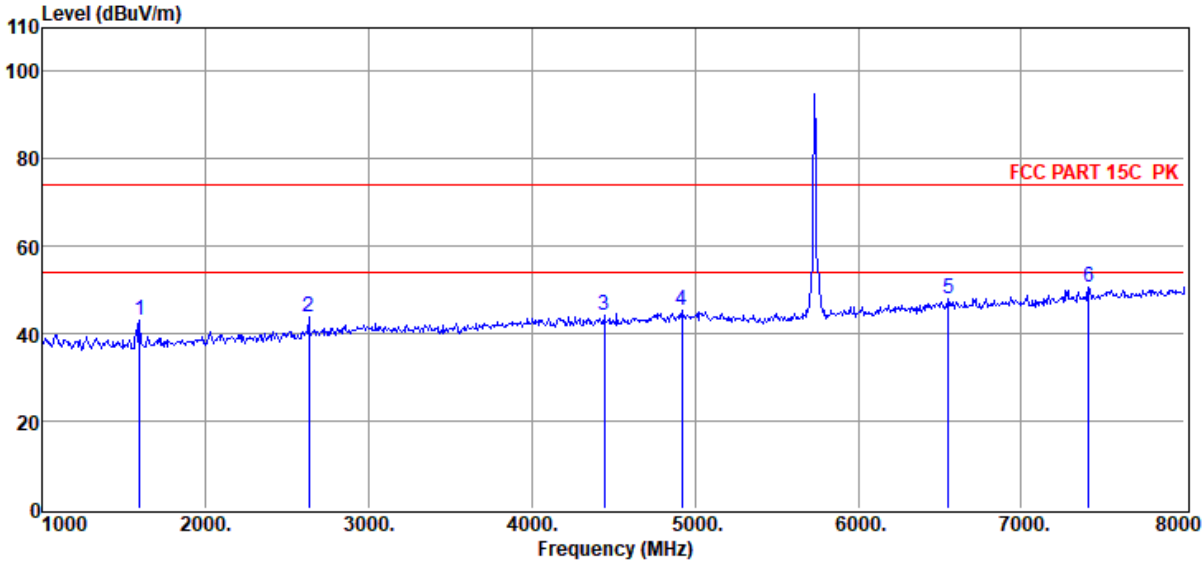
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	53.17	25.65	38.79	1.42	0.61	42.06	74.00	-31.94	Peak	VERTICAL
2	3114.00	49.98	29.48	39.93	1.83	0.80	42.16	74.00	-31.84	Peak	VERTICAL
3	4157.00	50.38	31.23	40.23	2.19	0.87	44.44	74.00	-29.56	Peak	VERTICAL
4	4899.00	49.33	32.78	40.38	2.50	0.90	45.13	74.00	-28.87	Peak	VERTICAL
5	6838.00	48.37	35.74	39.83	3.10	0.96	48.34	74.00	-25.66	Peak	VERTICAL
6	7580.00	48.59	36.50	39.76	3.15	1.97	50.45	74.00	-23.55	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5731 Power：5		

Data: 2



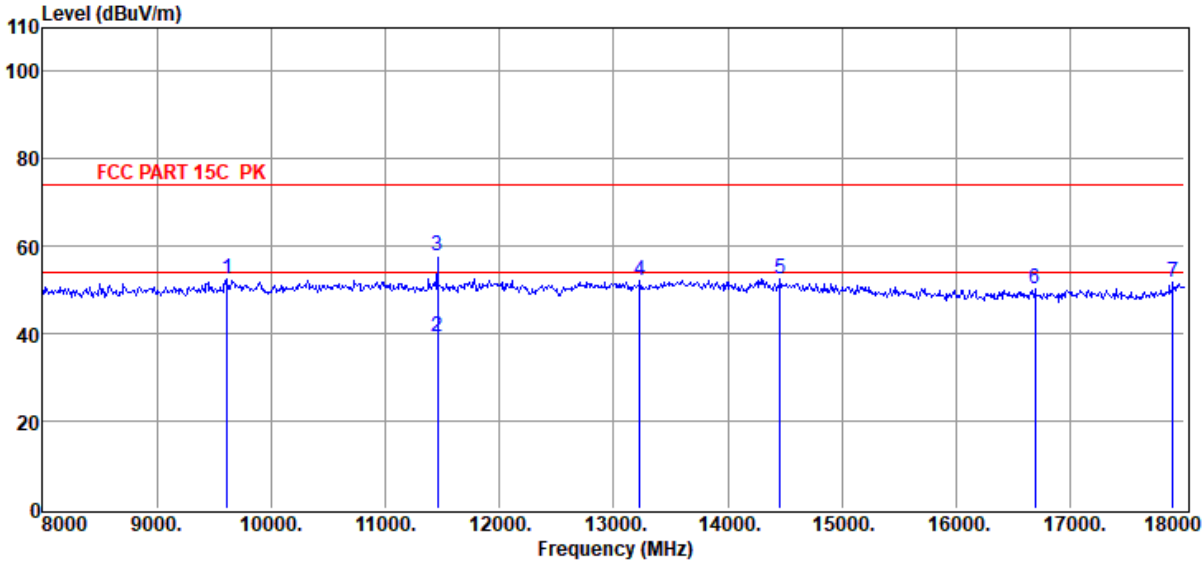
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	54.10	25.65	38.79	1.42	0.61	42.99	74.00	-31.01	Peak	VERTICAL
2	2631.00	53.10	28.10	39.72	1.77	0.75	44.00	74.00	-30.00	Peak	VERTICAL
3	4444.00	49.81	31.46	40.29	2.33	0.88	44.19	74.00	-29.81	Peak	VERTICAL
4	4920.00	49.45	32.84	40.38	2.51	0.91	45.33	74.00	-28.67	Peak	VERTICAL
5	6551.00	48.70	35.28	40.06	3.24	1.02	48.18	74.00	-25.82	Peak	VERTICAL
6	7412.00	49.13	36.33	39.74	3.12	1.67	50.51	74.00	-23.49	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5731 Power：5		

Data: 3



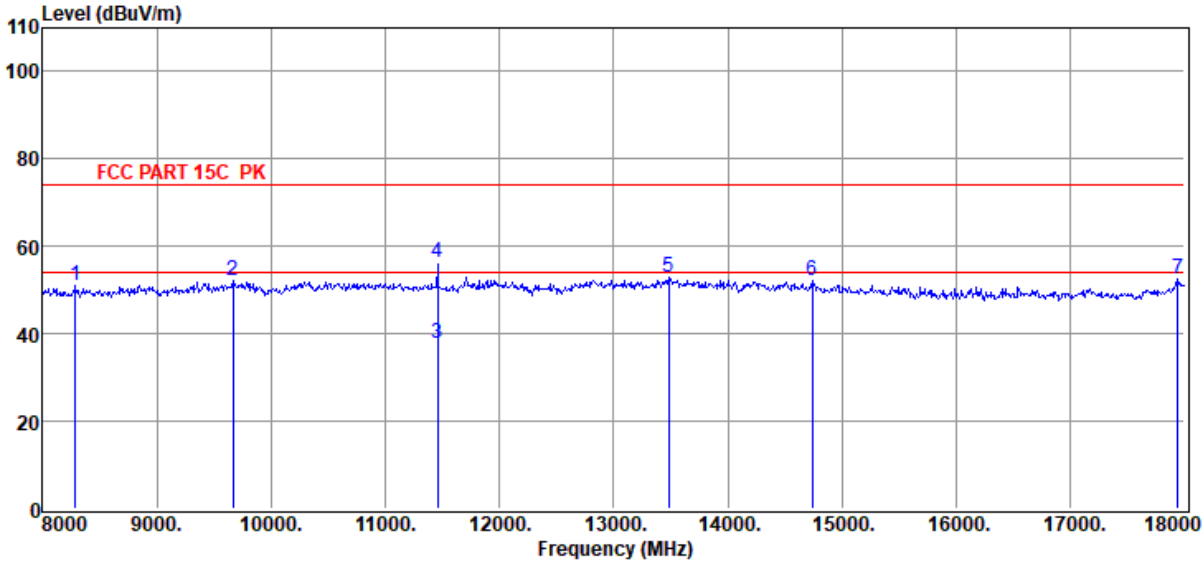
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9620.00	47.64	38.63	40.33	3.63	2.95	52.52	74.00	-21.48	Peak	HORIZONTAL
2	11462.00	57.92-18.42=39.5						54.00	-14.50	Average	HORIZONTAL
3	11462.00	52.59	39.02	40.15	3.96	2.50	57.92	74.00	-16.08	Peak	HORIZONTAL
4	13230.00	45.80	39.78	40.24	4.21	2.66	52.21	74.00	-21.79	Peak	HORIZONTAL
5	14460.00	45.37	39.90	39.65	4.36	2.55	52.53	74.00	-21.47	Peak	HORIZONTAL
6	16690.00	44.39	38.13	40.04	4.72	3.15	50.35	74.00	-23.65	Peak	HORIZONTAL
7	17900.00	42.78	41.88	40.64	4.93	2.69	51.64	74.00	-22.36	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5731 Power：5		

Data: 4



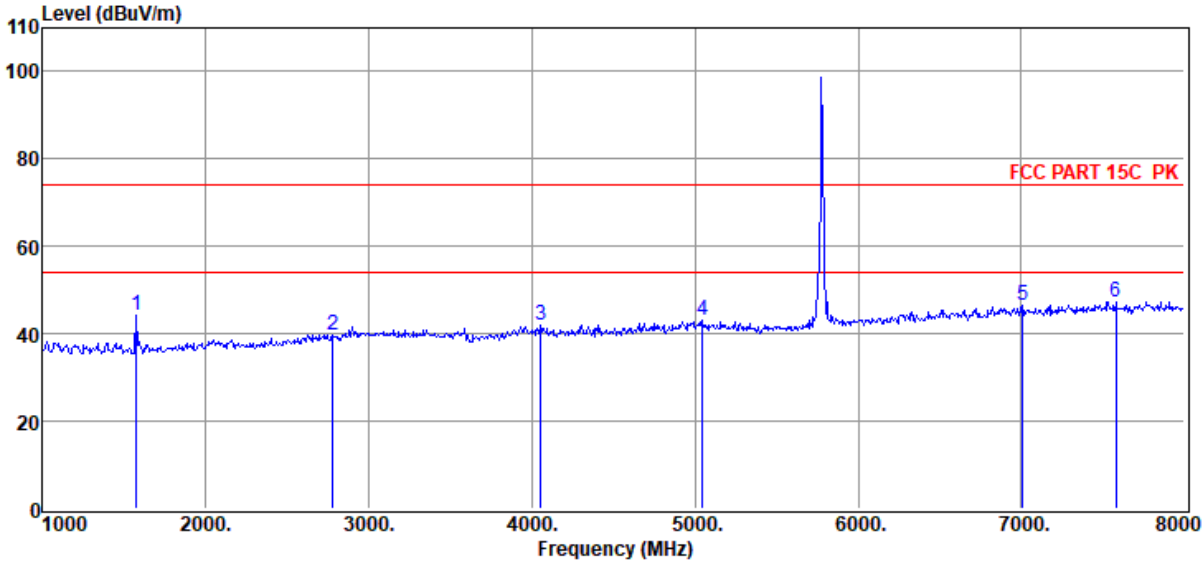
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	8290.00	47.60	37.46	39.83	3.21	2.74	51.18	74.00	-22.82	Peak	VERTICAL
2	9670.00	47.31	38.60	40.37	3.64	2.96	52.14	74.00	-21.86	Peak	VERTICAL
3	11462.00	56.34-18.42=37.92						54.00	-16.08	Average	VERTICAL
4	11462.00	51.01	39.02	40.15	3.96	2.50	56.34	74.00	-17.66	Peak	VERTICAL
5	13480.00	46.27	39.98	40.06	4.01	2.67	52.87	74.00	-21.13	Peak	VERTICAL
6	14740.00	45.05	39.71	39.63	4.41	2.47	52.01	74.00	-21.99	Peak	VERTICAL
7	17940.00	43.53	42.13	40.66	4.94	2.66	52.60	74.00	-21.40	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5773 Power：5		

Data: 5



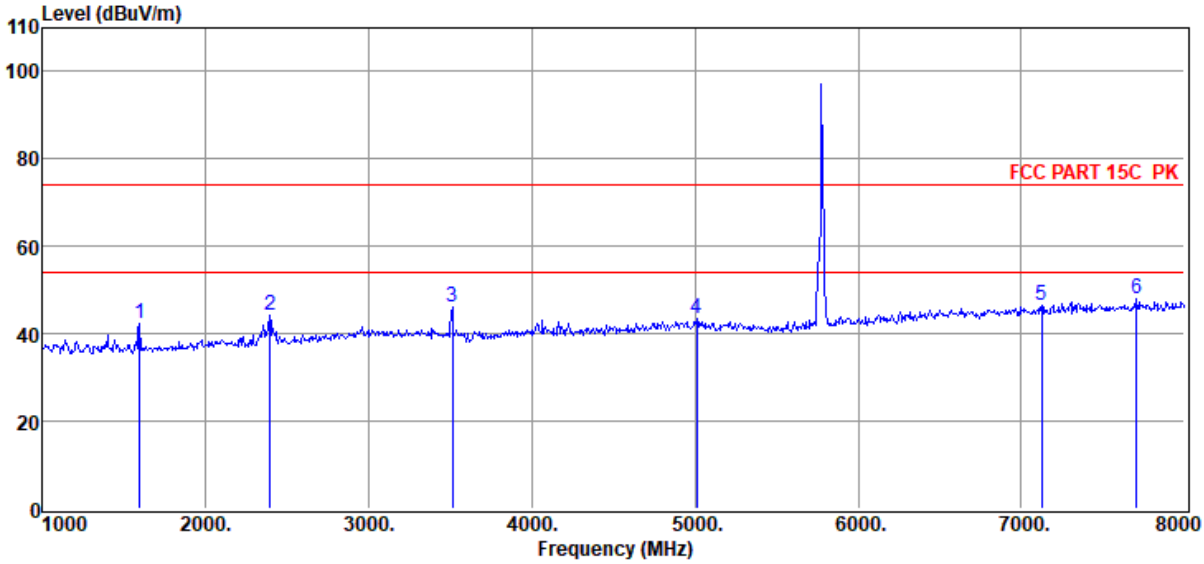
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1574.00	55.56	25.59	38.76	1.41	0.60	44.40	74.00	-29.60	Peak	HORIZONTAL
2	2778.00	48.22	28.66	39.79	1.81	0.77	39.67	74.00	-34.33	Peak	HORIZONTAL
3	4052.00	47.97	31.14	40.21	2.14	0.86	41.90	74.00	-32.10	Peak	HORIZONTAL
4	5046.00	46.91	33.07	40.40	2.54	0.92	43.04	74.00	-30.96	Peak	HORIZONTAL
5	7006.00	46.12	36.00	39.70	3.02	0.93	46.37	74.00	-27.63	Peak	HORIZONTAL
6	7580.00	46.45	36.50	39.76	3.15	1.07	47.41	74.00	-26.59	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5773 Power：5		

Data: 6



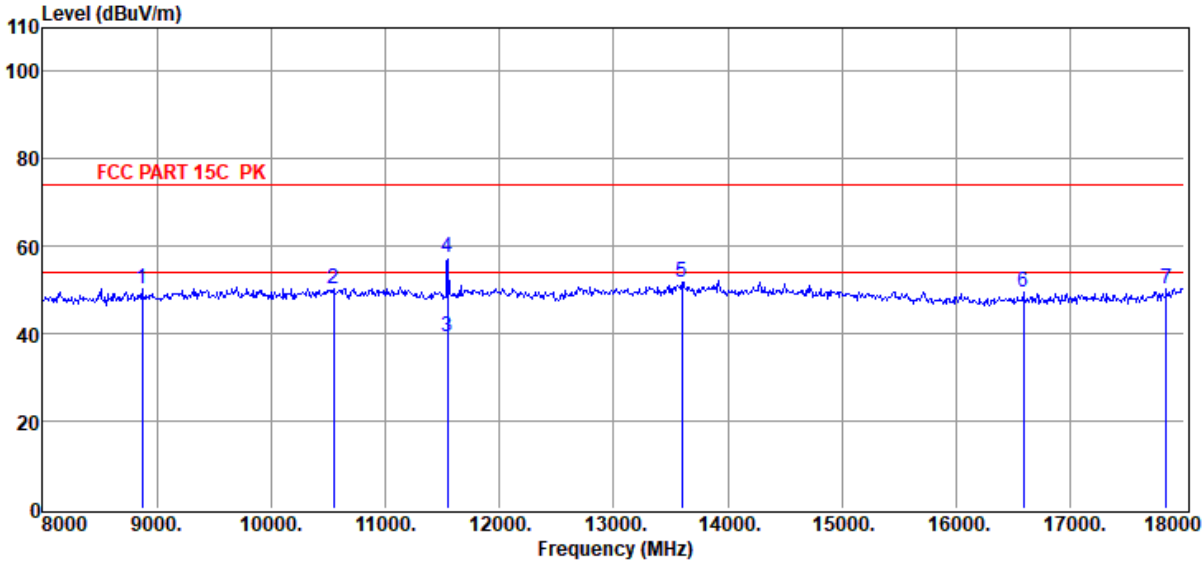
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	53.50	25.65	38.79	1.42	0.61	42.39	74.00	-31.61	Peak	VERTICAL
2	2393.00	54.00	27.41	39.60	1.71	0.72	44.24	74.00	-29.76	Peak	VERTICAL
3	3513.00	54.05	29.44	40.05	1.70	0.83	45.97	74.00	-28.03	Peak	VERTICAL
4	5011.00	47.38	33.09	40.40	2.54	0.91	43.52	74.00	-30.48	Peak	VERTICAL
5	7125.00	46.03	36.10	39.71	3.05	0.96	46.43	74.00	-27.57	Peak	VERTICAL
6	7706.00	46.90	36.65	39.77	3.16	1.11	48.05	74.00	-25.95	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5773 Power：5		

Data: 7



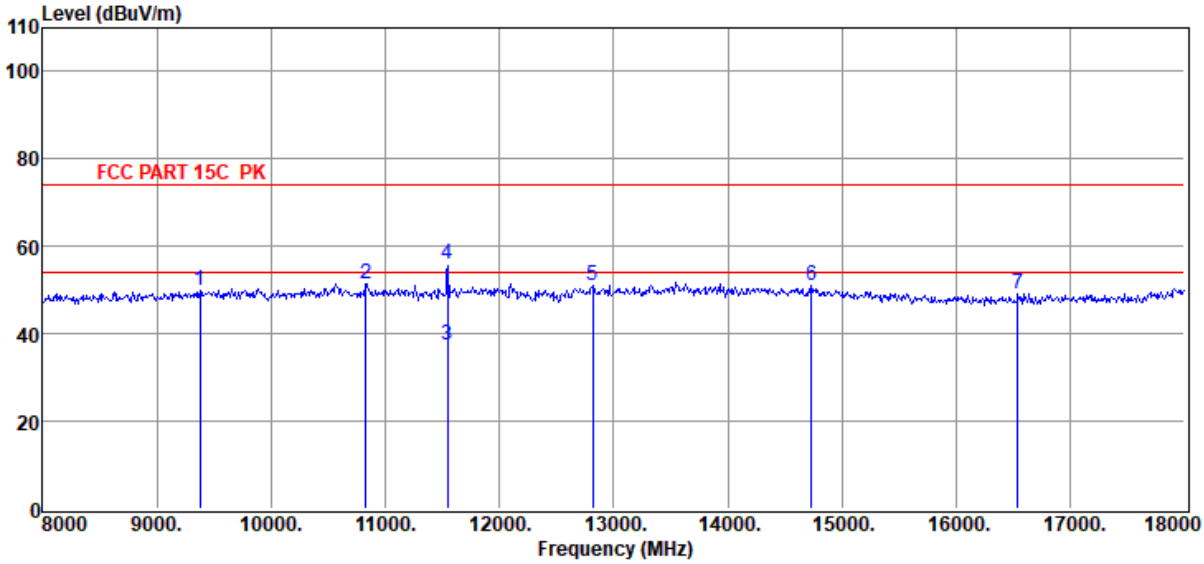
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	8870.00	45.85	38.17	39.89	3.30	2.79	50.22	74.00	-23.78	Peak	HORIZONTAL
2	10550.00	45.23	39.03	40.38	3.68	2.81	50.37	74.00	-23.63	Peak	HORIZONTAL
3	11546.00	57.61-18.42=39.19						54.00	-14.81	Average	HORIZONTAL
4	11546.00	52.28	39.02	40.15	3.98	2.48	57.61	74.00	-16.39	Peak	HORIZONTAL
5	13600.00	45.20	39.98	39.98	4.10	2.67	51.97	74.00	-22.03	Peak	HORIZONTAL
6	16590.00	43.66	38.01	40.02	4.73	3.07	49.45	74.00	-24.55	Peak	HORIZONTAL
7	17840.00	41.65	41.51	40.60	4.92	2.73	50.21	74.00	-23.79	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5773 Power：5		

Data: 8



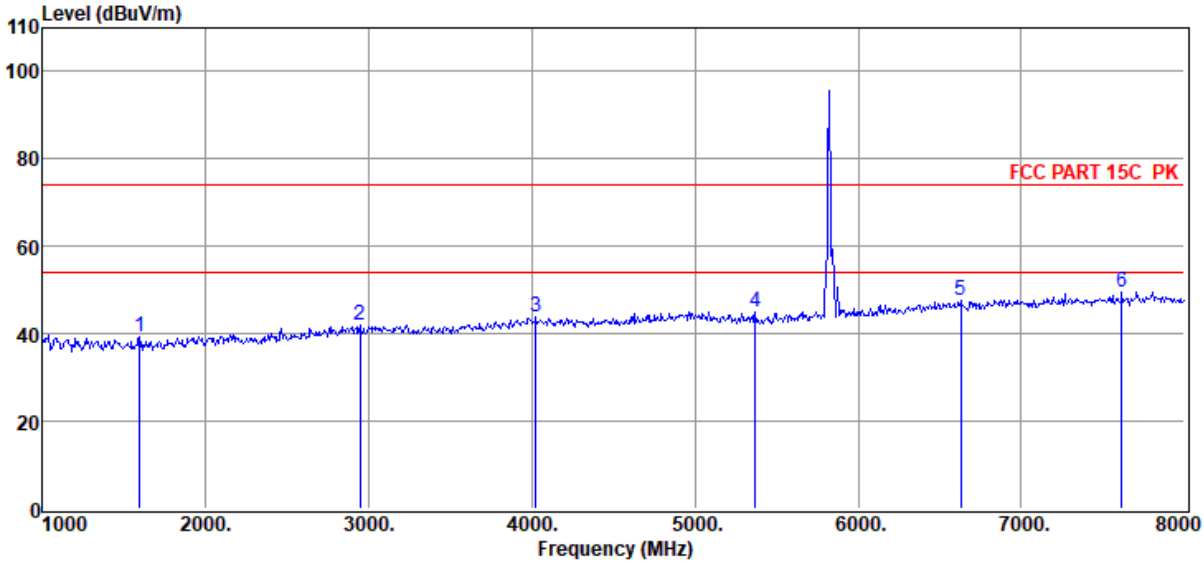
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9380.00	45.04	38.60	40.17	3.55	2.89	49.91	74.00	-24.09	Peak	VERTICAL
2	10830.00	46.03	39.20	40.27	3.76	2.69	51.41	74.00	-22.59	Peak	VERTICAL
3	11546.00	55.91-18.42=37.49						54.00	-16.51	Average	VERTICAL
4	11546.00	50.58	39.02	40.15	3.98	2.48	55.91	74.00	-18.09	Peak	VERTICAL
5	12820.00	45.32	39.38	40.35	4.15	2.60	51.10	74.00	-22.90	Peak	VERTICAL
6	14730.00	44.22	39.72	39.63	4.41	2.47	51.19	74.00	-22.81	Peak	VERTICAL
7	16540.00	43.32	37.95	40.01	4.73	3.03	49.02	74.00	-24.98	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5820 Power：5		

Data: 9



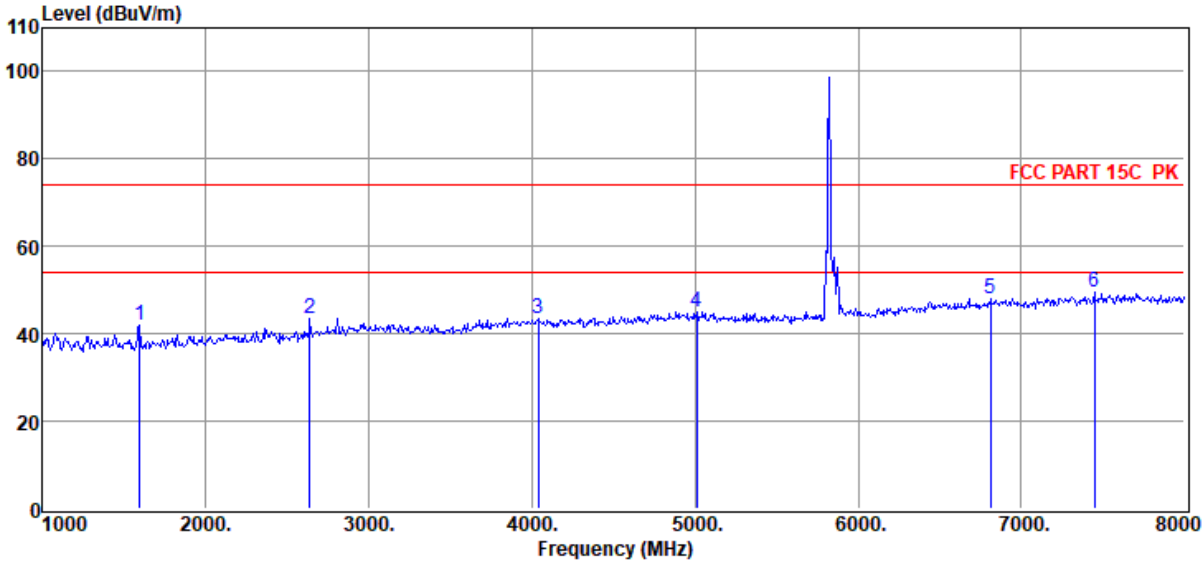
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	50.29	25.65	38.79	1.42	0.61	39.18	74.00	-34.82	Peak	HORIZONTAL
2	2946.00	49.97	29.29	39.87	1.86	0.78	42.03	74.00	-31.97	Peak	HORIZONTAL
3	4024.00	49.83	31.12	40.20	2.12	0.86	43.73	74.00	-30.27	Peak	HORIZONTAL
4	5368.00	49.10	32.88	40.44	2.56	0.99	45.09	74.00	-28.91	Peak	HORIZONTAL
5	6628.00	47.87	35.40	40.00	3.21	1.01	47.49	74.00	-26.51	Peak	HORIZONTAL
6	7615.00	48.54	36.54	39.76	3.15	1.08	49.55	74.00	-24.45	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5820 Power：5		

Data: 10



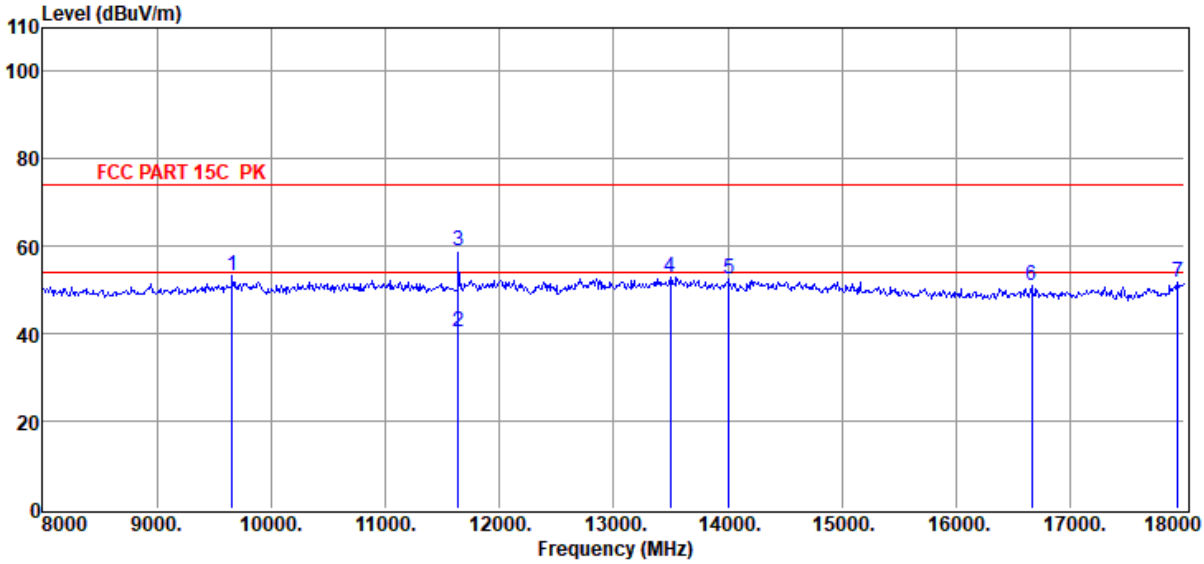
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	52.91	25.65	38.79	1.42	0.61	41.80	74.00	-32.20	Peak	VERTICAL
2	2638.00	52.43	28.12	39.72	1.78	0.75	43.36	74.00	-30.64	Peak	VERTICAL
3	4038.00	49.74	31.13	40.21	2.13	0.86	43.65	74.00	-30.35	Peak	VERTICAL
4	5011.00	48.85	33.09	40.40	2.54	0.91	44.99	74.00	-29.01	Peak	VERTICAL
5	6810.00	48.04	35.70	39.85	3.12	0.97	47.98	74.00	-26.02	Peak	VERTICAL
6	7447.00	48.68	36.36	39.74	3.13	1.04	49.47	74.00	-24.53	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5820 Power：5		

Data: 11



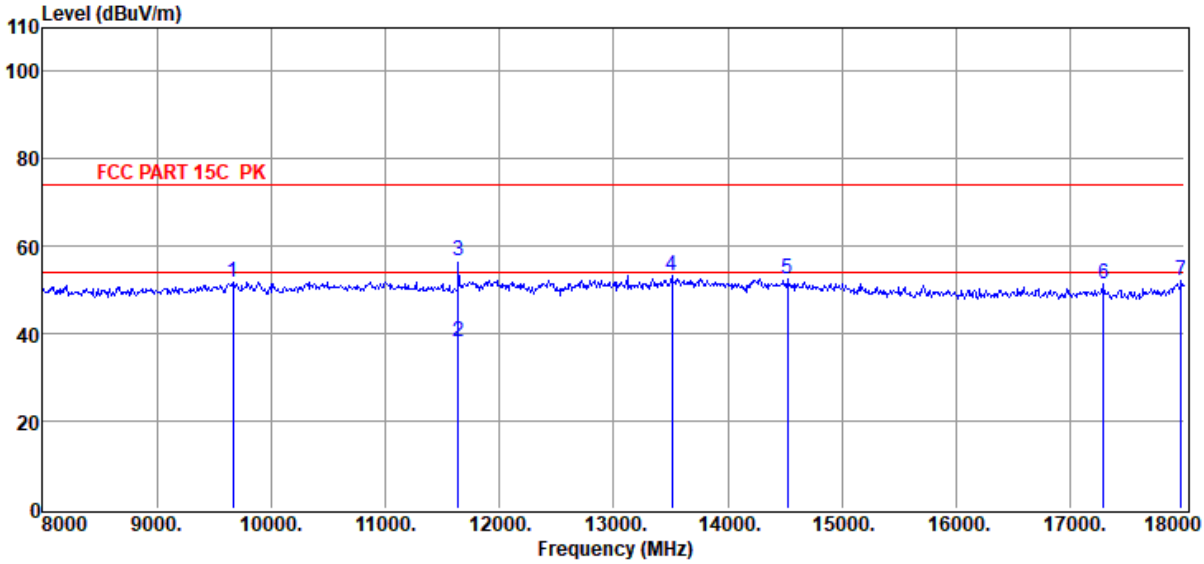
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9660.00	48.32	38.60	40.36	3.64	2.96	53.16	74.00	-20.84	Peak	HORIZONTAL
2	11640.00	58.90-18.42=40.48						54.00	-13.52	Average	HORIZONTAL
3	11640.00	53.53	39.06	40.14	3.99	2.46	58.90	74.00	-15.10	Peak	HORIZONTAL
4	13500.00	46.22	40.00	40.05	3.99	2.67	52.83	74.00	-21.17	Peak	HORIZONTAL
5	14010.00	45.16	39.90	39.70	4.53	2.69	52.58	74.00	-21.42	Peak	HORIZONTAL
6	16660.00	45.12	38.09	40.03	4.72	3.12	51.02	74.00	-22.98	Peak	HORIZONTAL
7	17940.00	42.83	42.13	40.66	4.94	2.66	51.90	74.00	-22.10	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5820 Power：5		

Data: 12



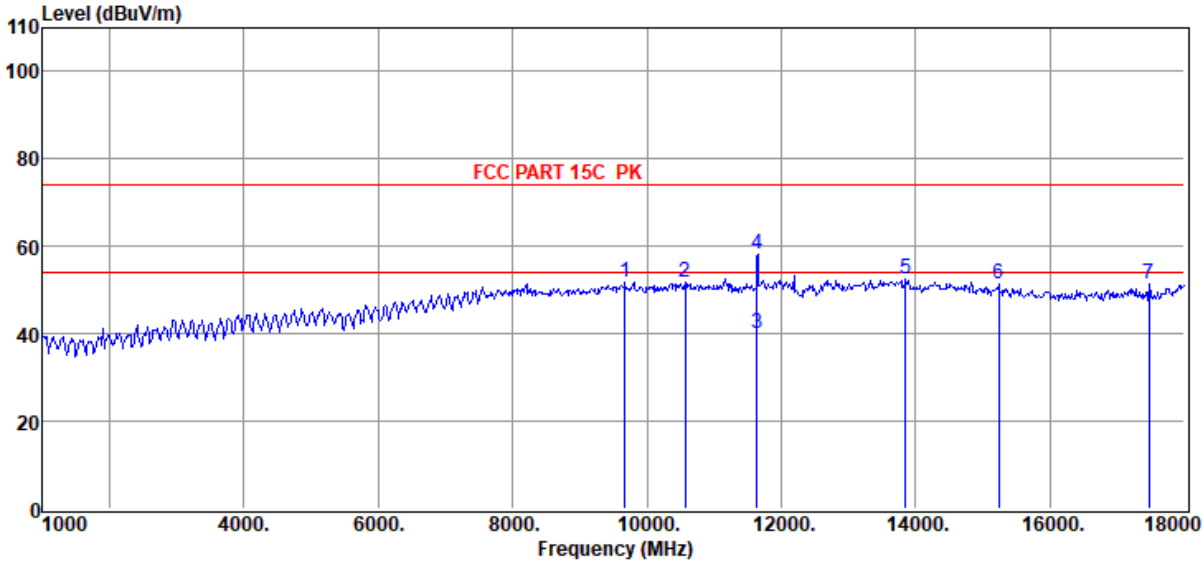
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9670.00	47.13	38.60	40.37	3.64	2.96	51.96	74.00	-22.04	Peak	VERTICAL
2	11640.00	56.78-18.42=38.26						54.00	-15.64	Average	VERTICAL
3	11640.00	51.41	39.06	40.14	3.99	2.46	56.78	74.00	-17.22	Peak	VERTICAL
4	13510.00	46.77	40.00	40.04	4.00	2.67	53.40	74.00	-20.60	Peak	VERTICAL
5	14520.00	45.54	39.88	39.65	4.35	2.53	52.65	74.00	-21.35	Peak	VERTICAL
6	17290.00	44.82	39.02	40.27	4.77	3.16	51.50	74.00	-22.50	Peak	VERTICAL
7	17970.00	43.10	42.31	40.68	4.95	2.63	52.31	74.00	-21.69	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: BT+5.8G SRD Worst case		

Data: 17



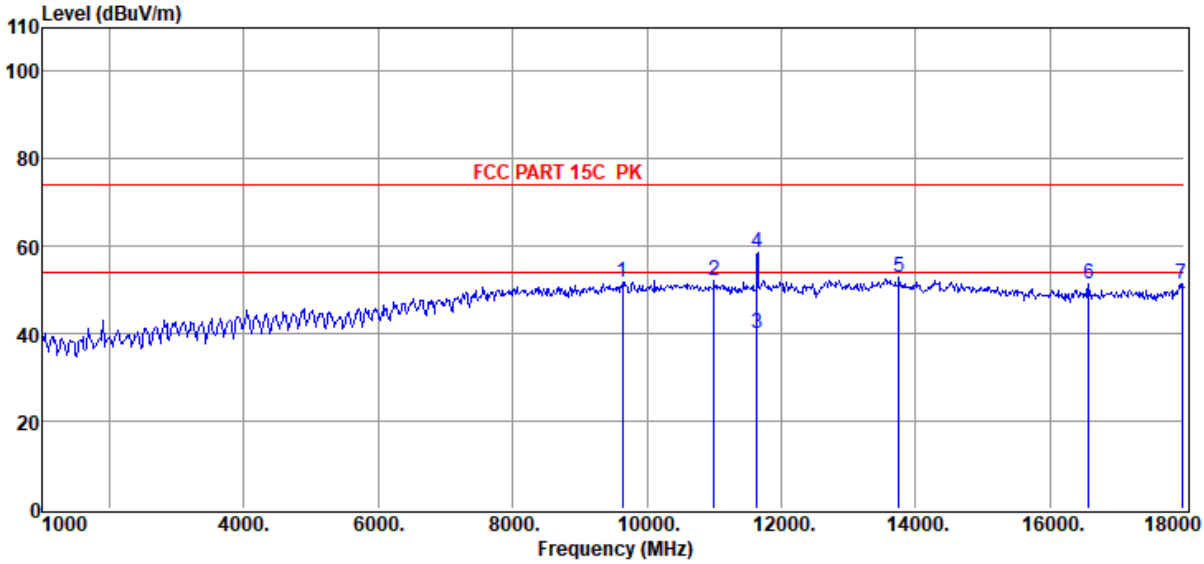
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9670.00	47.08	38.60	40.37	3.64	2.96	51.91	74.00	-22.09	Peak	HORIZONTAL
2	10571.00	46.52	39.04	40.37	3.69	2.80	51.68	74.00	-22.32	Peak	HORIZONTAL
3	11640.00	58.37-18.42=39.95						54.00	-14.05	Average	HORIZONTAL
4	11640.00	53.00	39.06	40.14	3.99	2.46	58.37	74.00	-15.63	Peak	HORIZONTAL
5	13852.00	45.49	39.93	39.80	4.37	2.68	52.67	74.00	-21.33	Peak	HORIZONTAL
6	15229.00	44.99	39.18	39.67	4.51	2.44	51.45	74.00	-22.55	Peak	HORIZONTAL
7	17473.00	44.73	39.35	40.38	4.81	3.02	51.53	74.00	-22.47	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: BT+5.8G SRD Worst case		

Data: 18

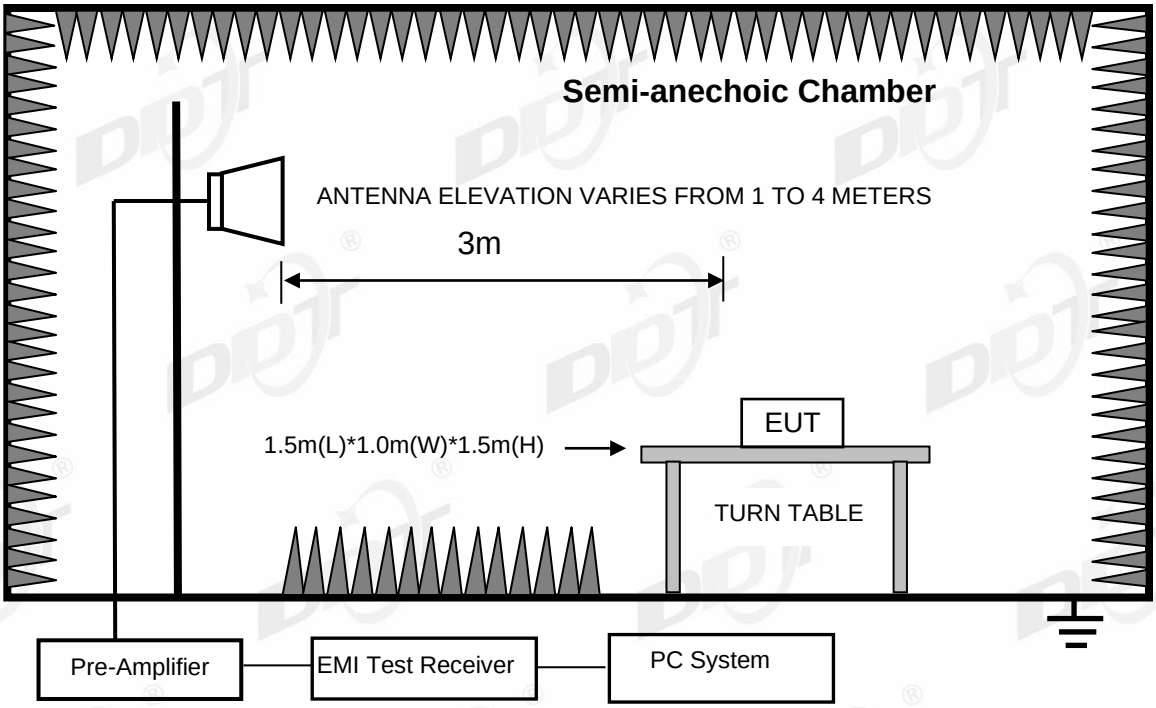


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	9636.00	47.04	38.62	40.35	3.63	2.95	51.89	74.00	-22.11	Peak	VERTICAL
2	10996.00	46.78	39.30	40.20	3.80	2.62	52.30	74.00	-21.70	Peak	VERTICAL
3	11640.00	58.46-18.42=40.04						54.00	-13.96	Average	VERTICAL
4	11640.00	53.09	39.06	40.14	3.99	2.46	58.46	74.00	-15.54	Peak	VERTICAL
5	13750.00	45.84	39.95	39.88	4.26	2.68	52.85	74.00	-21.15	Peak	VERTICAL
6	16572.00	45.83	37.99	40.01	4.73	3.05	51.59	74.00	-22.41	Peak	VERTICAL
7	17966.00	42.37	42.29	40.68	4.95	2.64	51.57	74.00	-22.43	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

7. Band Edge Compliance

7.1. Block diagram of test setup



7.2. 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 §15.209, whichever is the lesser attenuation.

7.3. Test procedure

Same with clause 5.3 except change investigated frequency range from 5710 MHz to 5750 MHz and 5822 MHz to 5800 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

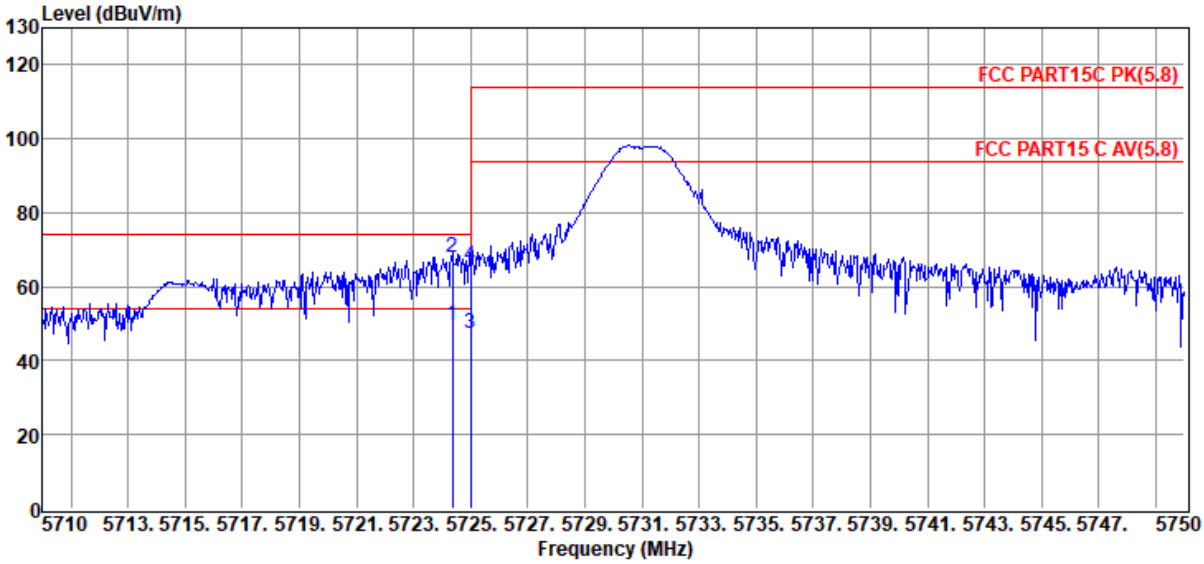
7.4. Test result

Pass. (See below detailed test result)

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5731 Power：5		

Data: 13



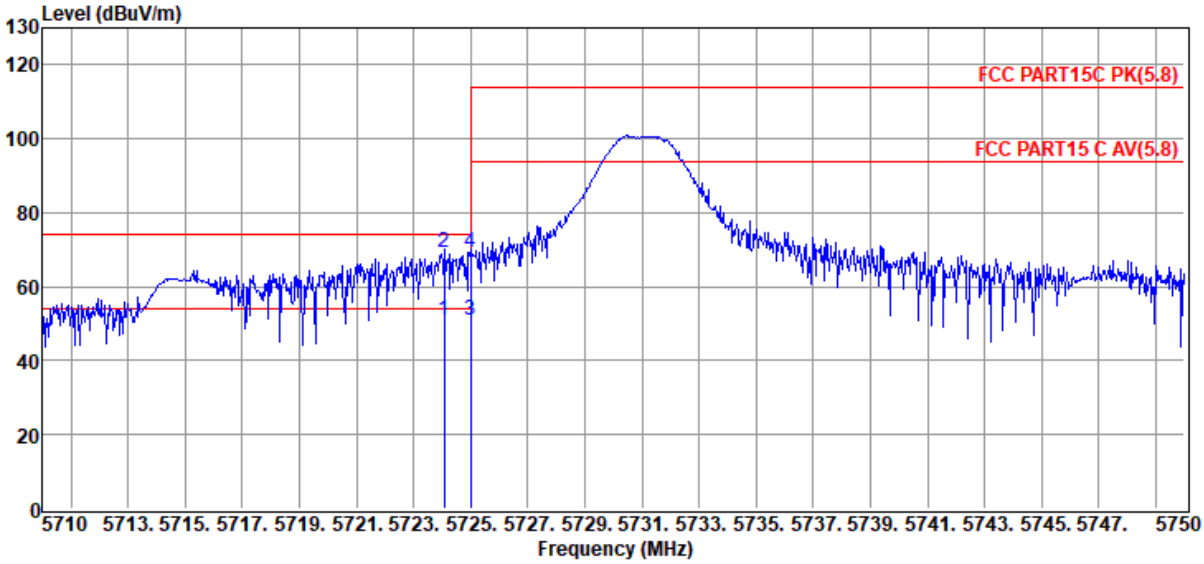
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5724.36	68.04-18.42=49.62						54.00	-4.38	Average	HORIZONTAL
2	5724.36	71.31	33.34	40.47	2.78	1.08	68.04	74.00	-5.96	Peak	HORIZONTAL
3	5725.00	65.89-18.42=47.47						54.00	-6.53	Average	HORIZONTAL
4	5725.00	69.16	33.34	40.47	2.78	1.08	65.89	74.00	-8.11	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5731 Power：5		

Data: 14



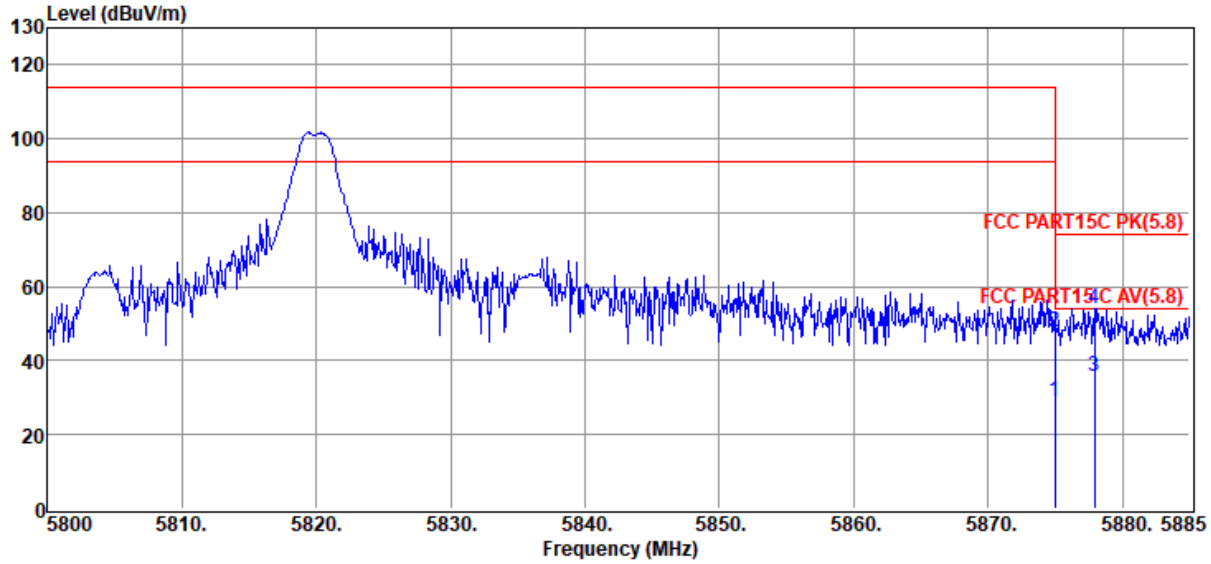
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5724.08	69.23-18.42=50.81						54.00	-3.19	Average	VERTICAL
2	5724.08	72.50	33.34	40.47	2.78	1.08	69.23	74.00	-4.77	Peak	VERTICAL
3	5725.00	69.37-18.42=50.95						54.00	-3.05	Average	VERTICAL
4	5725.00	72.64	33.34	40.47	2.78	1.08	69.37	74.00	-4.63	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/HORIZONTAL
Memo	: SRD 5820 Power：5		

Data: 15



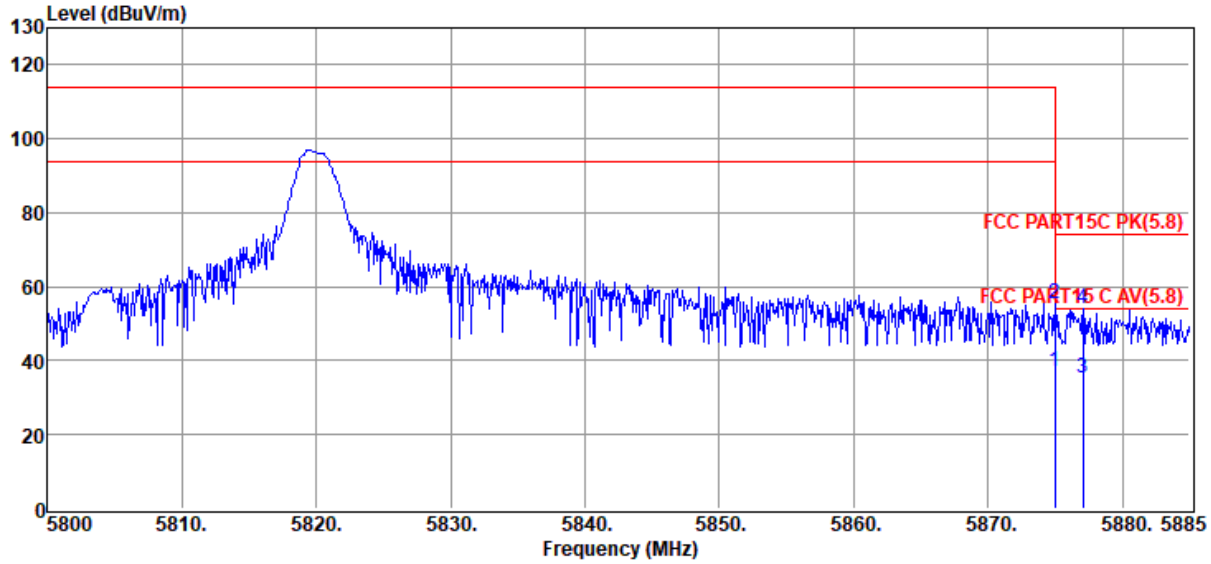
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5875.00	47.64-18.42=29.22						54.00	-24.78	Average	HORIZONTAL
2	5875.00	50.41	33.70	40.49	2.91	1.11	47.64	74.00	-26.36	Peak	HORIZONTAL
3	5877.95	54.07-18.42=35.65						54.00	-18.35	Average	HORIZONTAL
4	5877.95	56.82	33.71	40.49	2.92	1.11	54.07	74.00	-19.93	Peak	HORIZONTAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

TR-4-E-009 Radiated Emission Test Result

Test Site	: DDT 3m Chamber 3#	D:\E3 6.111\2022 Report Data\Q22040126-2E EDF100026(B700)\FCC ABOVE 1G SRD.EM6	
Test Date	: 2022-05-22	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: Tx Mode
Condition	: Temp:23.4°C,Humi:63.1%,Press:101.2kPa	**Antenna/Distance**	: 2021 BBHA 9120D 3#/3m/VERTICAL
Memo	: SRD 5820 Power：5		

Data: 16

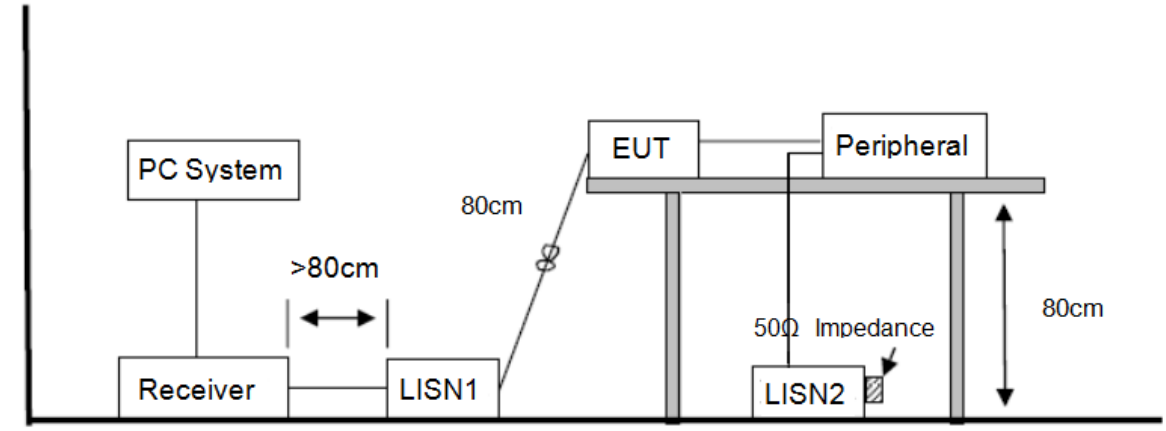


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5875.00	55.56-18.42=37.14						54.00	-16.86	Average	VERTICAL
2	5875.00	58.33	33.70	40.49	2.91	1.11	55.56	74.00	-18.44	Peak	VERTICAL
3	5877.10	53.86-18.42=35.44						54.00	-18.56	Average	VERTICAL
4	5877.10	56.61	33.71	40.49	2.92	1.11	53.86	74.00	-20.14	Peak	VERTICAL

Note:
1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. AV Level = PK Level + PDCF, PDCF= -18.42.

8. Power Line Conducted Emission

8.1. Block diagram of test setup



8.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

8.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 7.1 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.
The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

8.4. Test result

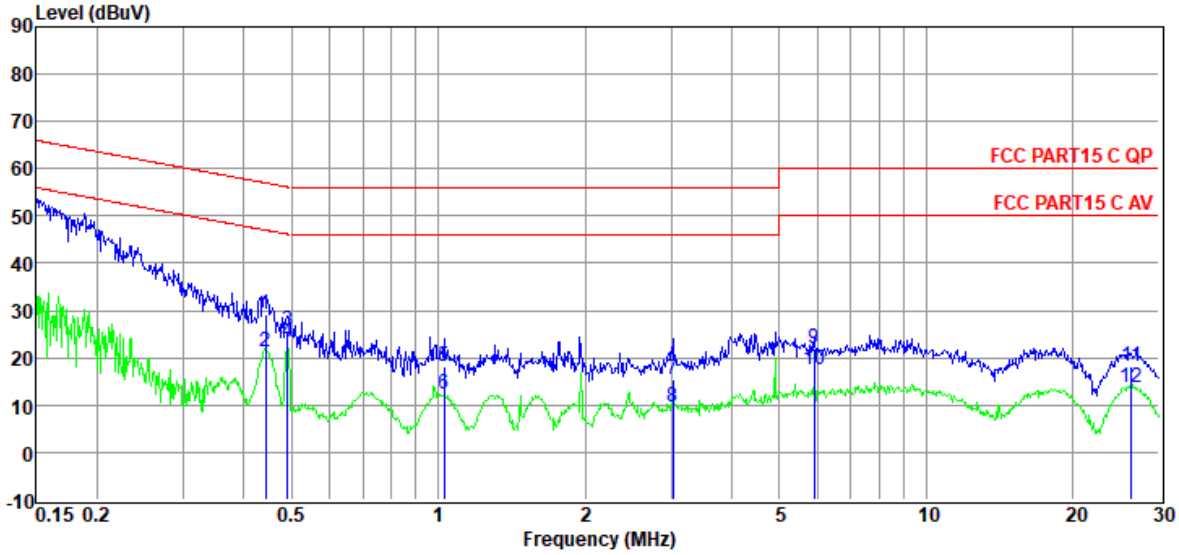
Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: "-----" means Peak detection; "-----" means Average detection.
Note3: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/60Hz, recorded worst case.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2022 CE report date\Q22040126-2E EDF100026 (B700)\FCC.EM6	
Test Date	: 2022-04-18	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: TX MODE
Condition	: TEMP:24.3°C, RH:53.0%, BP:101.0kPa	**LISN**	: 2021 1# ENV216/NEUTRAL
Memo	: SRD		

Data: 6



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.44	9.68	9.54	0.02	9.91	29.15	57.02	-27.87	QP	NEUTRAL
2	0.44	1.94	9.54	0.02	9.91	21.41	47.02	-25.61	Average	NEUTRAL
3	0.49	6.32	9.51	0.02	9.91	25.76	56.14	-30.38	QP	NEUTRAL
4	0.49	3.85	9.51	0.02	9.91	23.29	46.14	-22.85	Average	NEUTRAL
5	1.03	-1.47	9.70	0.03	9.89	18.15	56.00	-37.85	QP	NEUTRAL
6	1.03	-7.37	9.70	0.03	9.89	12.25	46.00	-33.75	Average	NEUTRAL
7	3.03	-4.10	9.72	0.05	9.91	15.58	56.00	-40.42	QP	NEUTRAL
8	3.03	-9.94	9.72	0.05	9.91	9.74	46.00	-36.26	Average	NEUTRAL
9	5.90	2.19	9.66	0.07	9.93	21.85	60.00	-38.15	QP	NEUTRAL
10	5.90	-2.14	9.66	0.07	9.93	17.52	50.00	-32.48	Average	NEUTRAL
11	26.28	-1.89	9.87	0.19	9.99	18.16	60.00	-41.84	QP	NEUTRAL
12	26.28	-6.48	9.87	0.19	9.99	13.57	50.00	-36.43	Average	NEUTRAL

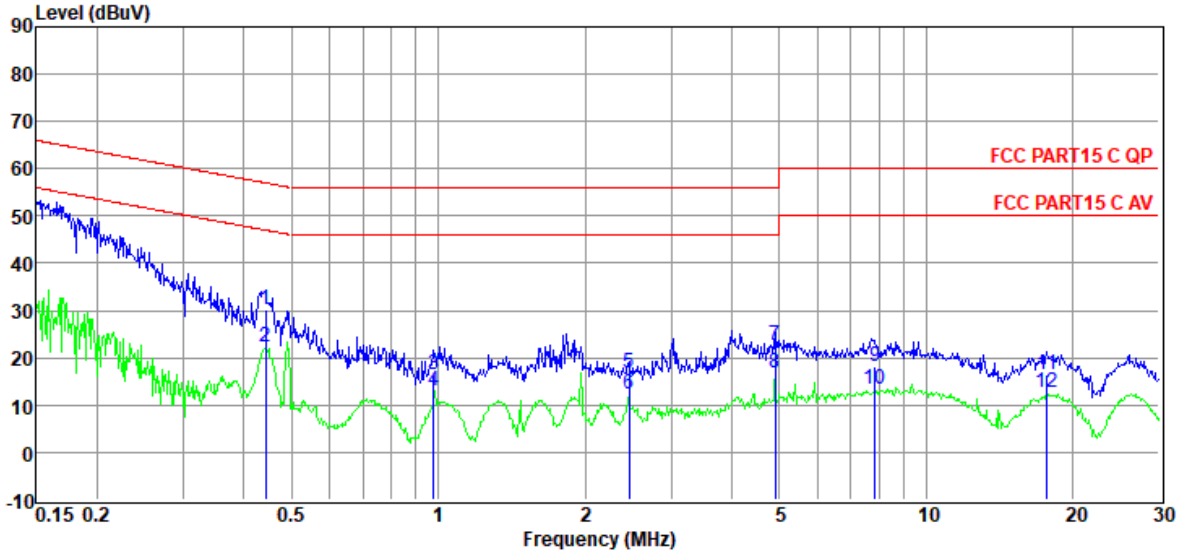
Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site	: DDT 1# Shield Room	D:\2022 CE report date\Q22040126-2E EDF100026 (B700)\FCC.EM6	
Test Date	: 2022-04-18	**Tested By**	: James Gan
EUT	: Soundbar	**Model Number**	: EDF100026 (B700)
Power Supply	: AC 120V/60Hz	**Test Mode**	: TX MODE
Condition	: TEMP:24.3°C, RH:53.0%, BP:101.0kPa	**LISN**	: 2021 1# ENV216/LINE
Memo	: SRD		

Data: 8



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	LISN Factor (dB)	Cable Loss (dB)	Pulse Limiter Factor (dB)	Result Level (dBµV)	Limit Line (dBµV)	Over Limit (dB)	Detector	Phase
1	0.44	10.52	9.63	0.02	9.91	30.08	57.02	-26.94	QP	LINE
2	0.44	2.73	9.63	0.02	9.91	22.29	47.02	-24.73	Average	LINE
3	0.98	-2.96	9.59	0.03	9.89	16.55	56.00	-39.45	QP	LINE
4	0.98	-6.63	9.59	0.03	9.89	12.88	46.00	-33.12	Average	LINE
5	2.46	-2.65	9.53	0.05	9.90	16.83	56.00	-39.17	QP	LINE
6	2.46	-7.01	9.53	0.05	9.90	12.47	46.00	-33.53	Average	LINE
7	4.90	3.07	9.56	0.06	9.93	22.62	56.00	-33.38	QP	LINE
8	4.90	-2.76	9.56	0.06	9.93	16.79	46.00	-29.21	Average	LINE
9	7.85	-1.22	9.50	0.09	9.94	18.31	60.00	-41.69	QP	LINE
10	7.85	-6.29	9.50	0.09	9.94	13.24	50.00	-36.76	Average	LINE
11	17.66	-3.31	9.69	0.16	9.95	16.49	60.00	-43.51	QP	LINE
12	17.66	-7.28	9.69	0.16	9.95	12.52	50.00	-37.48	Average	LINE

Note:

1. Result Level = Read Level +LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

9. Antenna Requirements

9.1. Limit

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.

9.2. Result

The antennas used for this product are integral PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.57 dBi.