

FCC CERTIFICATION REPORT

Test Report No. : E1/2017/20009
Applicant : Sony Mobile Communications Inc.
Address : 4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002
Japan
Manufacturer : Sony Mobile Communications Inc.
Address : 4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002
Japan

Equipment Under Test (EUT) :

Brand Name : Sony
FCC ID : PY7-46331W

Standards : FCC Part 15:2017 Subpart B, Class B

FCC Registration Numbers : 916890

Date of Receipt : Feb. 22, 2017
Date of Test : Feb. 22 ~ Apr. 11, 2017
Date of Issue : Aug. 15, 2017

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Tested By:



Date

Aug. 15, 2017

Eddy Cheng (Engineer)

Approved By



Date

Aug. 15, 2017

Wisely Huang
(Assistant Supervisor)

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Revision History

Report Number	Revision	Description	Issue Date
E1/2017/20009	Rev.00	Initial creation of document	Aug. 15, 2017

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1. General Information

1.1 Applicant & Manufacturer Information

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140-0002 Japan
Manufacturer : Sony Mobile Communications Inc.
Address of Manufacturer : 4-12-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo,
140-0002 Japan

1.2 General Description of EUT

Brand Name : Sony
FCC ID : PY7-46331W

1.3 Details of EUT

Power Supply : 12Vdc
Worst case : CE_Worst_case : Config 1
RE_Worst_case : Config 2 (MP3 Play)
Highest operate description : 5GHz
Adapter : Model No.: ACH10E
Supplier: SONY
I/P: 100-240V, 50/60Hz, 1.5A
O/P: 12V, 3A

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FCC 15B	Config 1	Config 2
Applicable standard (FCC 15B)		
Accessories	EUT +AC Charger +USB Cable	EUT +AC charger
	USB Data Transfer	AC charger
	DATA Link(USB Cable) Idle(WIFI.BT & NFC ON)	Play recording + MP3 Play Idle(WIFI.BT& NFC ON)
Standard § 15.107 & 15.109		
radiated emission	DATA Link(USB Cable)	Play recording + MP3 Play
conducted emission (DC Power)	N/A	N/A
conducted emission (AC Power)	DATA Link(USB Cable)	Play recording + MP3 Play

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1.4 Operation Procedure

Config 1:

1. EUT connected to the Adapter and USB Cable, placed in the center of the table edge.
2. After EUT power on ,open WIFI.BT.NFC function Idle mode.
3. EUT transmits data with computer by USB Cable.
4. Start the test.

Config 2: MP3 Play

1. EUT connected to the Adapter, placed in the center of the table edge.
2. After EUT power on ,open WIFI.BT.GPS.NFC function Idle mode.
3. EUT playing the music, start the test.

Config 2: Play recording

1. EUT connected to the Adapter, placed in the center of the table edge.
2. After EUT power on ,open WIFI.BT.GPS.NFC function Idle mode.
3. After EUT performs the playback function, start the test..

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1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Notebook	DELL	Latitude E6440	3VGS162
Mouse	DELL	MS111-T	CN-OKW2YH-71616-345-OL7T
Printer	HP	VCVRA-1004	CN33K19J3F
AP	BUFFALO	WZR-HP-G300NH2	44066221202559[[G]]

Support Equipment Used in Tested Cable

Cable Type	Core	Length	Shielding/Non-shielding
Printer USB Cable	N/A	2.0m	Non-shielding
Mouse Cable	N/A	1.6m	Shielding

1.6 Modification List

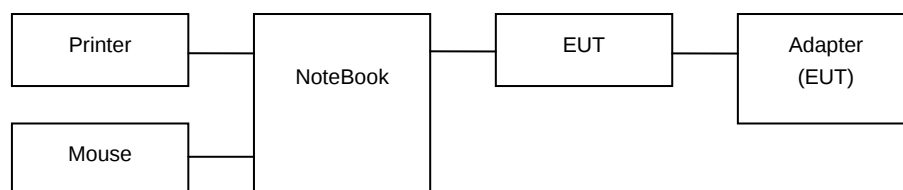
No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

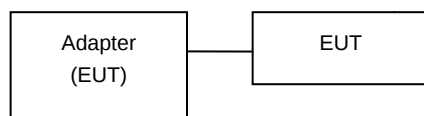
Cable Type	Core	Length	Category	Shielding/Non-shielding
Power Cable(AC Cable)	N/A	1.9m	N/A	Non-shielding
Power Cable(DC Cable)	N/A	1.2m	N/A	Shielding
USB - Type C Cable	N/A	1m	N/A	Shielding

1.8 Test Set-Up Configuration

Config 1



Config 2



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1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B/ CISPR 22	Applicable
Deviation from Standard	No deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.4780	-11.47 (AVG)
			Neutral	0.4820	-12.79 (AVG)
	Radiated Emission	PASS	Ver.	70.7400	-0.72 (peak)

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2. EMISSION

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or
used in the device or on which the
device operates or tunes (MHz)

Upper frequency of measurement
range (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15, Subpart B/CISPR 22:

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

Note : (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000-18000	79.3	59.3	73.9	53.9

FREQUENCY (MHz)	Class A (dBuV/m) (at 1m)		Class B (dBuV/m) (at 1m)	
	Peak	Average	Peak	Average
Above 18000-40000	88.9	68.9	83.5	63.5

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CISPR 22 Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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2.4. Test of Conducted Emission

2.4.1 Test Equipments

SGS Conducted Emission HWAYA Conducted Room No.A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2016/6/23	2017/6/22
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2016/8/30	2017/8/29
LISN	SCHWARZBECK	NSLK 8127	8127-648	2016/6/13	2017/6/12
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2016/8/12	2017/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8127-300	2016/6/22	2017/6/21
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty (K=2) of conducted emission is 2.20 dB					

2.4.2 Operating Environment

Temperature : 23 degree C

Humidity : 53 %RH

Atmospheric Pressure : 992 mBar

2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss+ Pulse Limiter Insertion Loss

Measurement Level = Reading Level + Factor

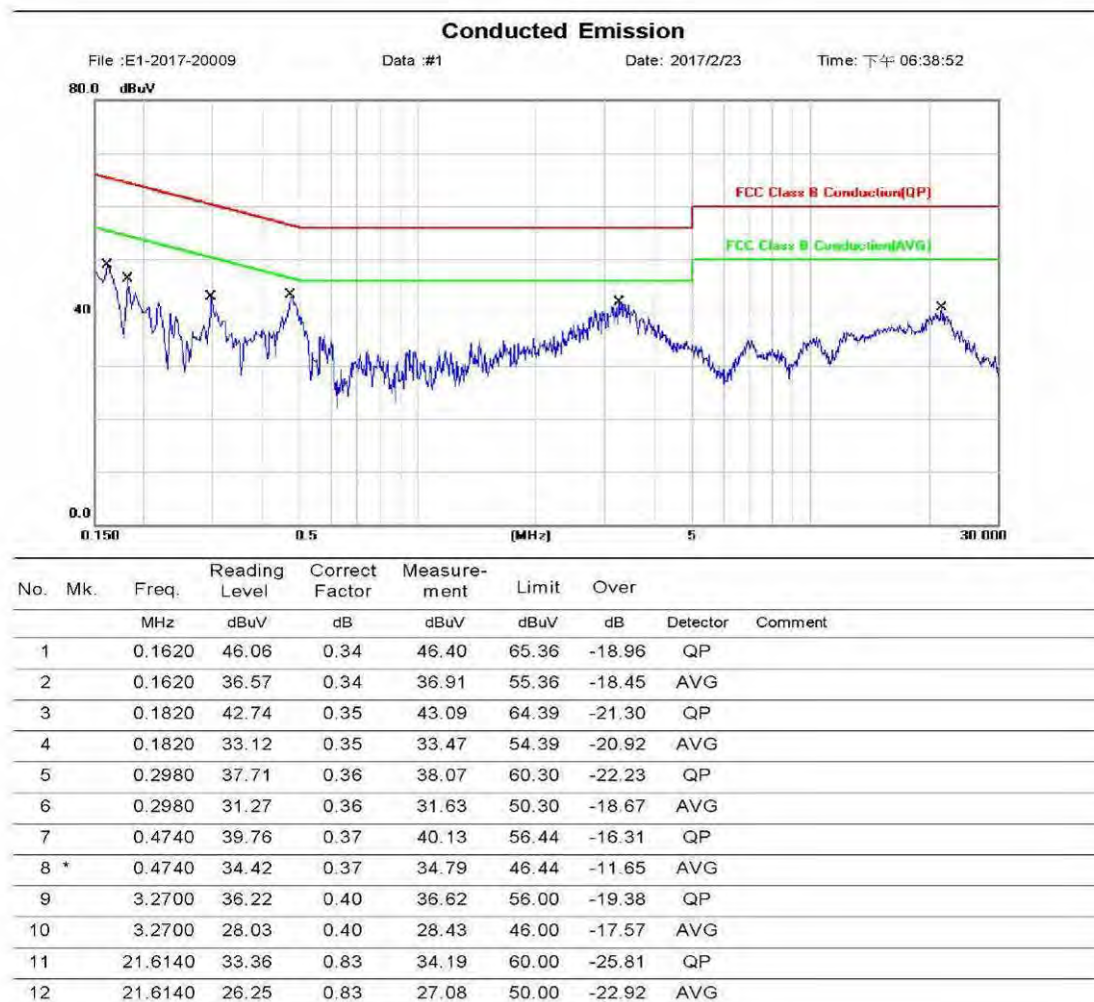
Over (Margin) = Measurement Level – Limit

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2.4.4 Measurement Data:

Config_1_Read_L

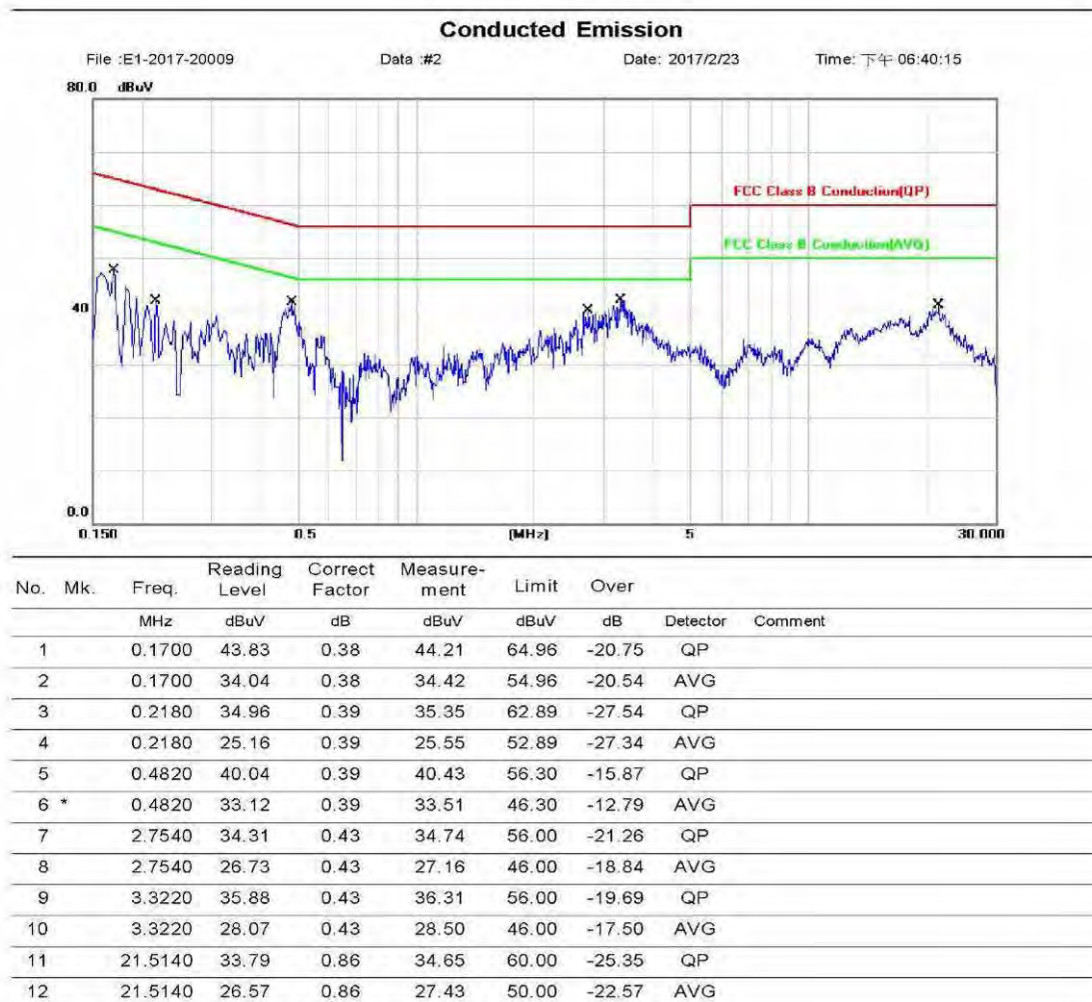


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Config_1_Read_N

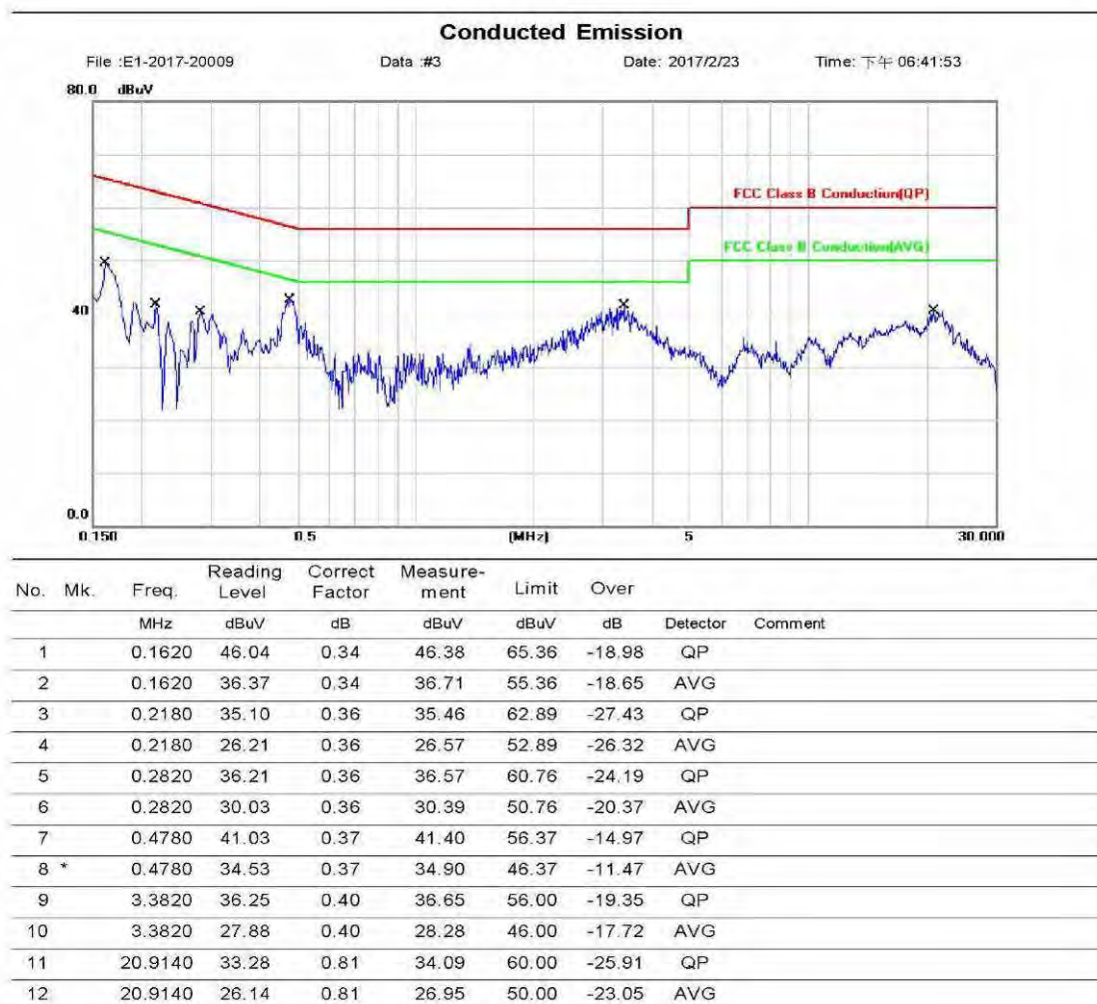


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Config_1_Write_L

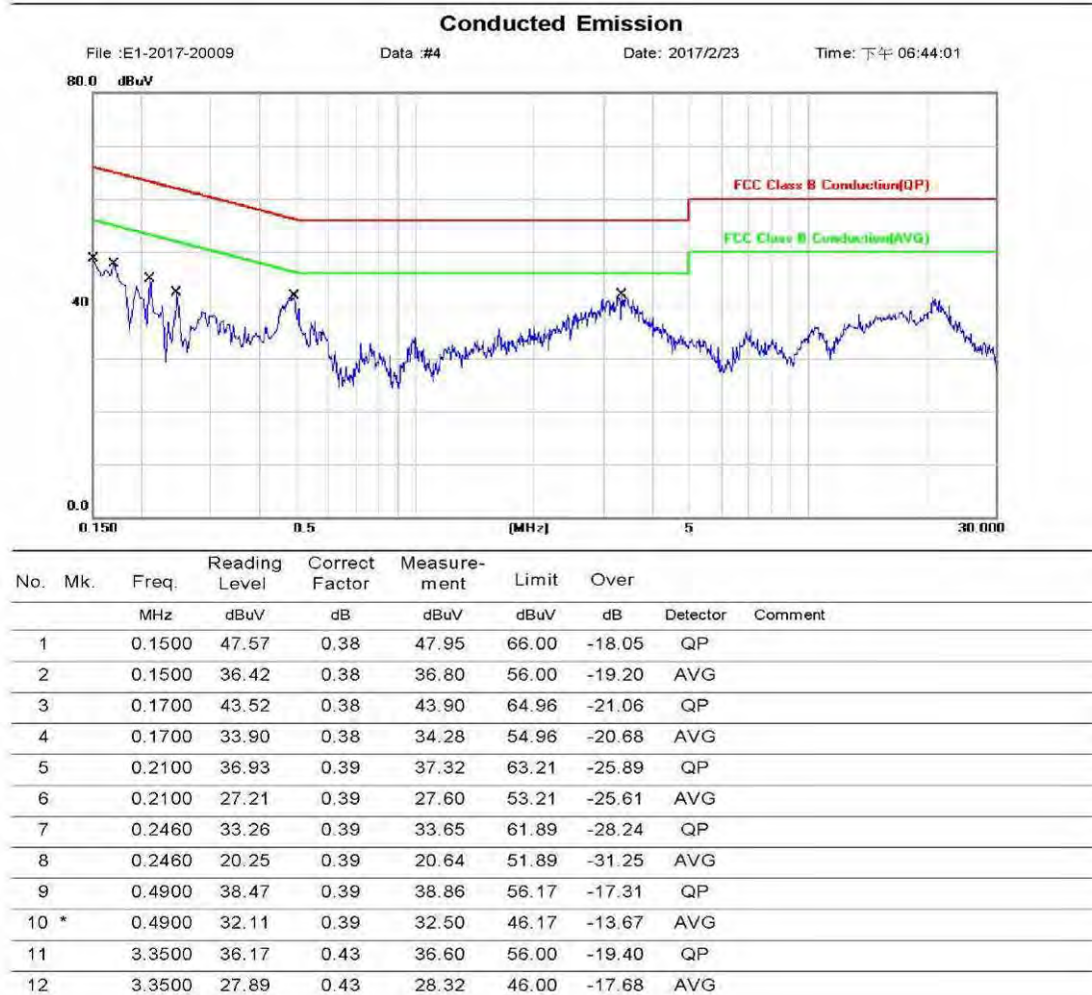


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Config_1_Write_N

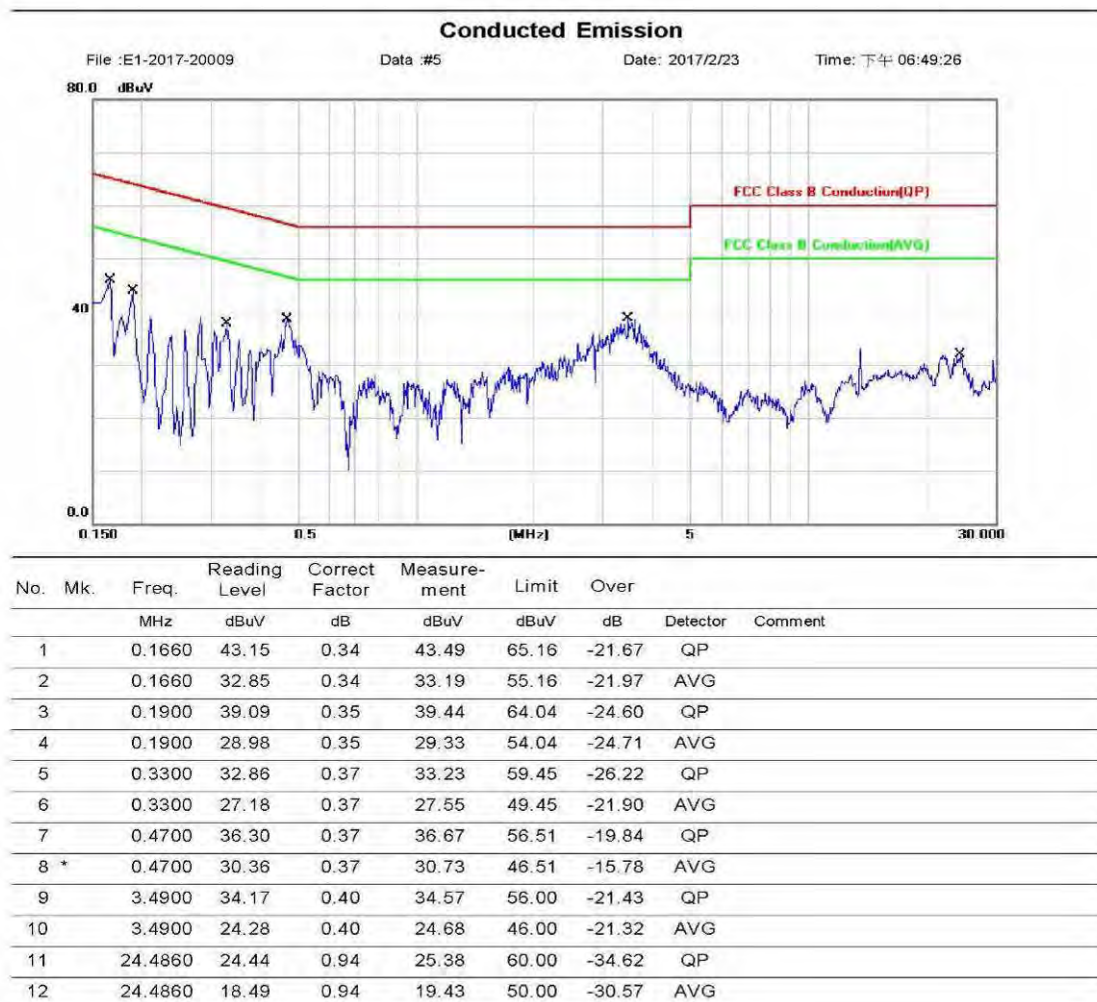


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Config_2_MP3 Play_L



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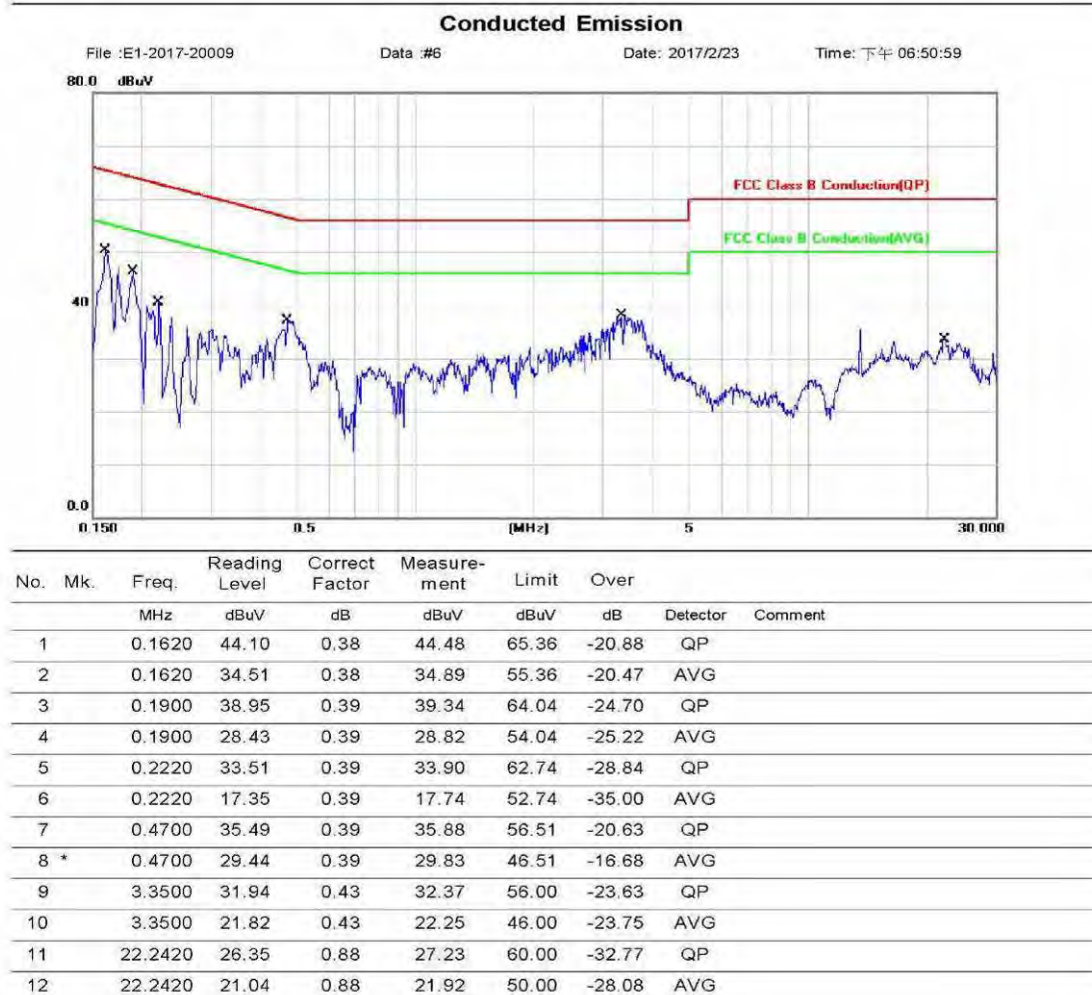
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Config_2_MP3 Play_N

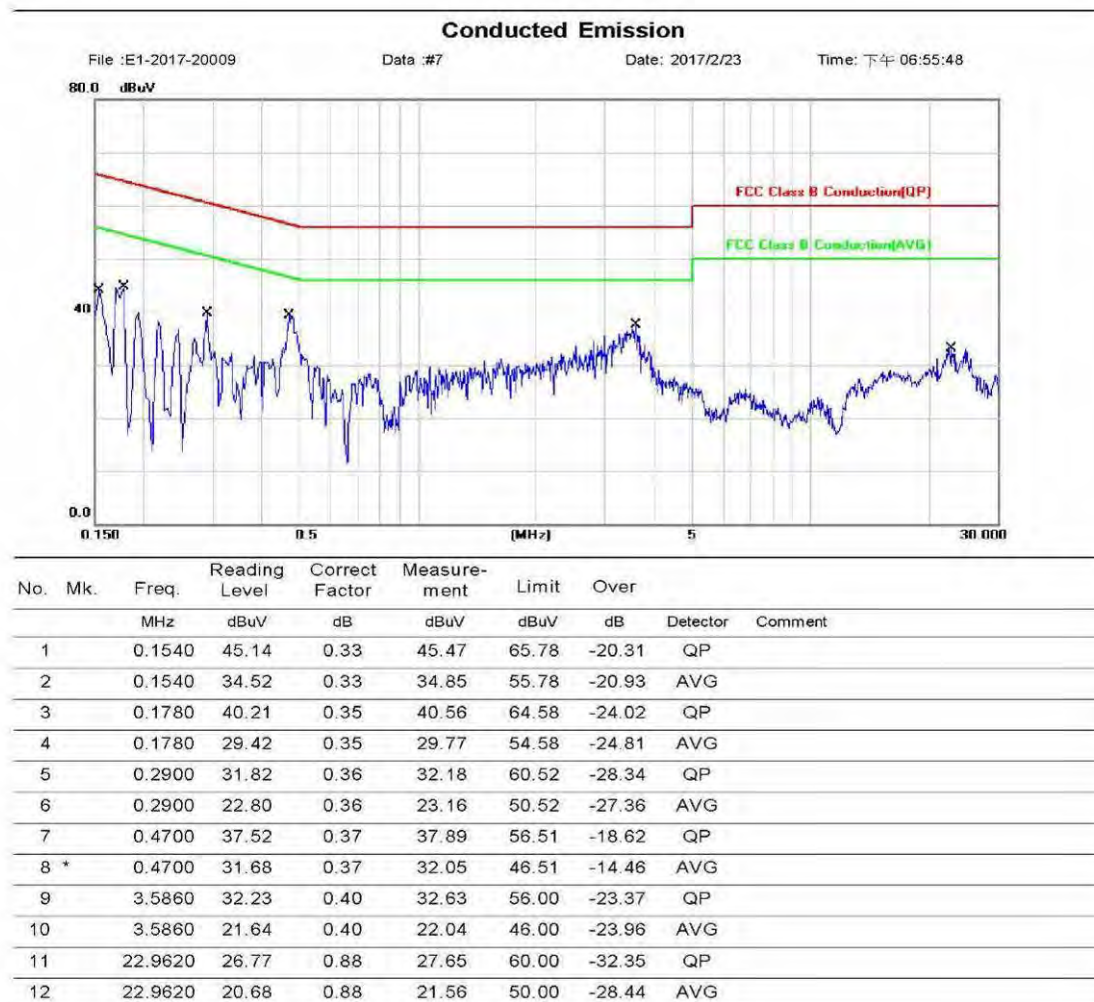


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Config_2_Play recording_L

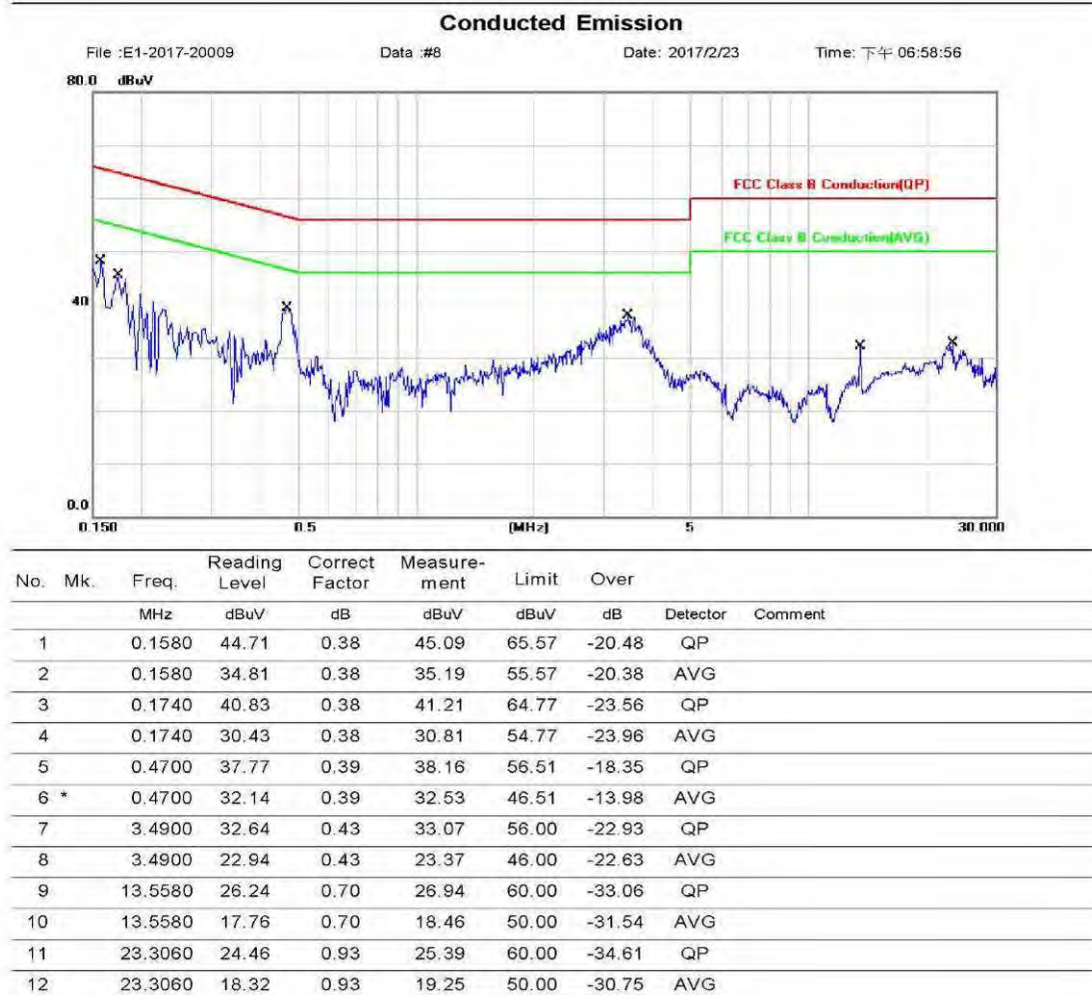


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Config_2_Play recording_N



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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

SGS Radiated_Below_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16
Biconical Antenna	SCHWARZBECK	VULB 9168	9168-297	2016/5/26	2017/5/25
Pre Amplifier	EMC Instruments Corp.	EMC330	980180	2016/5/19	2017/5/18
Coaxial Cable	Huber+Suhner	RG 214/U	539808	2016/4/23	2017/4/22
Coaxial Cable	NA	8D	SAC-A-8M	2016/4/23	2017/4/22
Coaxial Cable	NA	8D	SAC-A-0.5M	2016/4/23	2017/4/22
Coaxial Cable	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	966 Chamber A	SAC-A	2017/1/12	2018/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Radiated Emission Expanded uncertainty (k=2) of radiated emission measurement is 4.74 dB. (30-1000MHz)					

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Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2017/3/1	2018/2/28
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2016/10/14	2017/10/13
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2016/12/12	2017/12/11
Pre Amplifier	R&S	SCU-18	100203	2017/3/26	2018/3/25
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2016/4/25	2017/4/24
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2016/10/27	2017/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2016/4/23	2017/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	N.C.R.	N.C.R.
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2016/4/23	2017/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2016/6/5	2017/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2016/6/5	2017/6/4
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2017/1/12	2018/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Radiated Emission Expanded uncertainty (k=2) of radiated emission measurement is 4.96 dB. (1-6GHz) Expanded uncertainty (k=2) of radiated emission measurement is 5.14 dB. (6-18GHz) Expanded uncertainty (k=2) of radiated emission measurement is 4.86 dB. (18-26GHz) Expanded uncertainty (k=2) of radiated emission measurement is 4.81 dB. (26-40GHz)					

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2.5.2 Operating Environment

Temperature : 19 degree C

Humidity : 63 %RH

Atmospheric Pressure : 996 mBar

2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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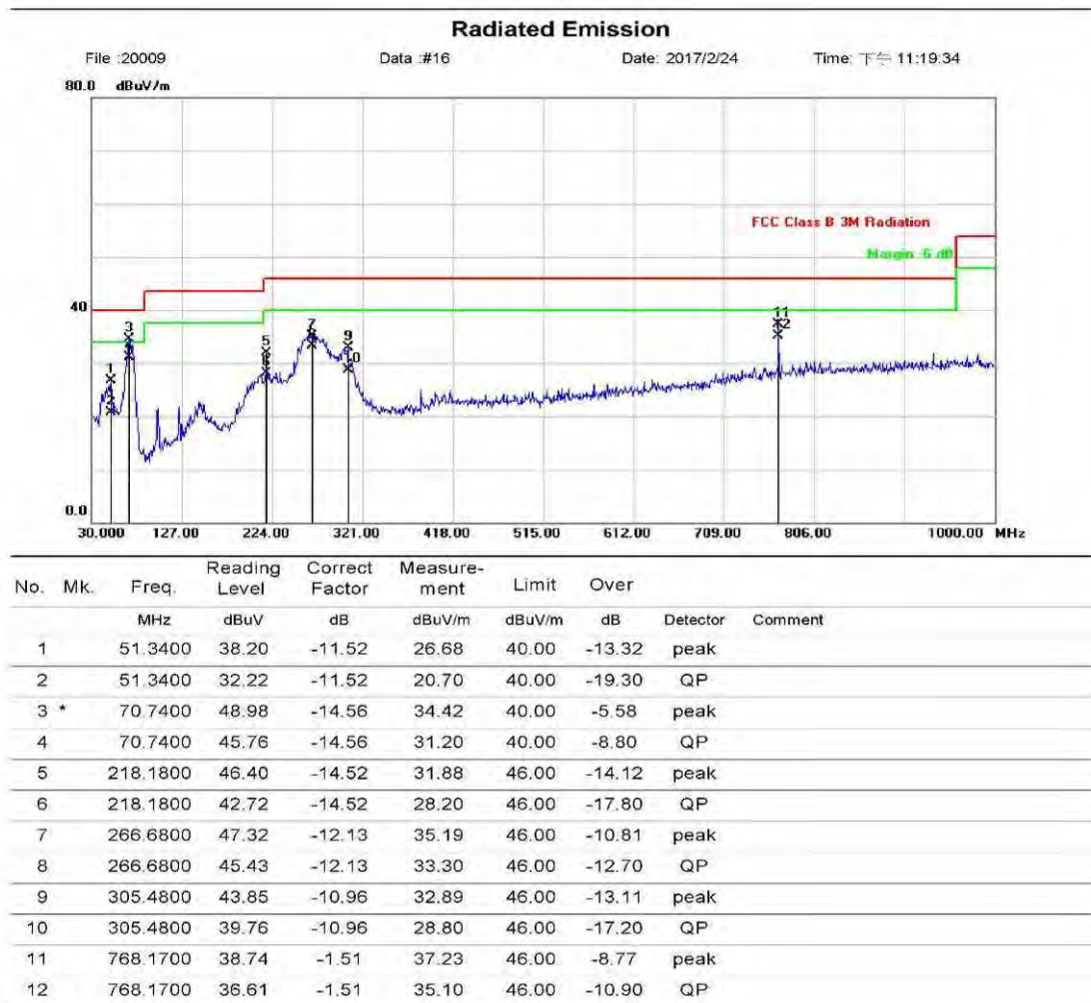
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2.5.4 Measurement Data

Below 1GHz

Config_1_Read_H

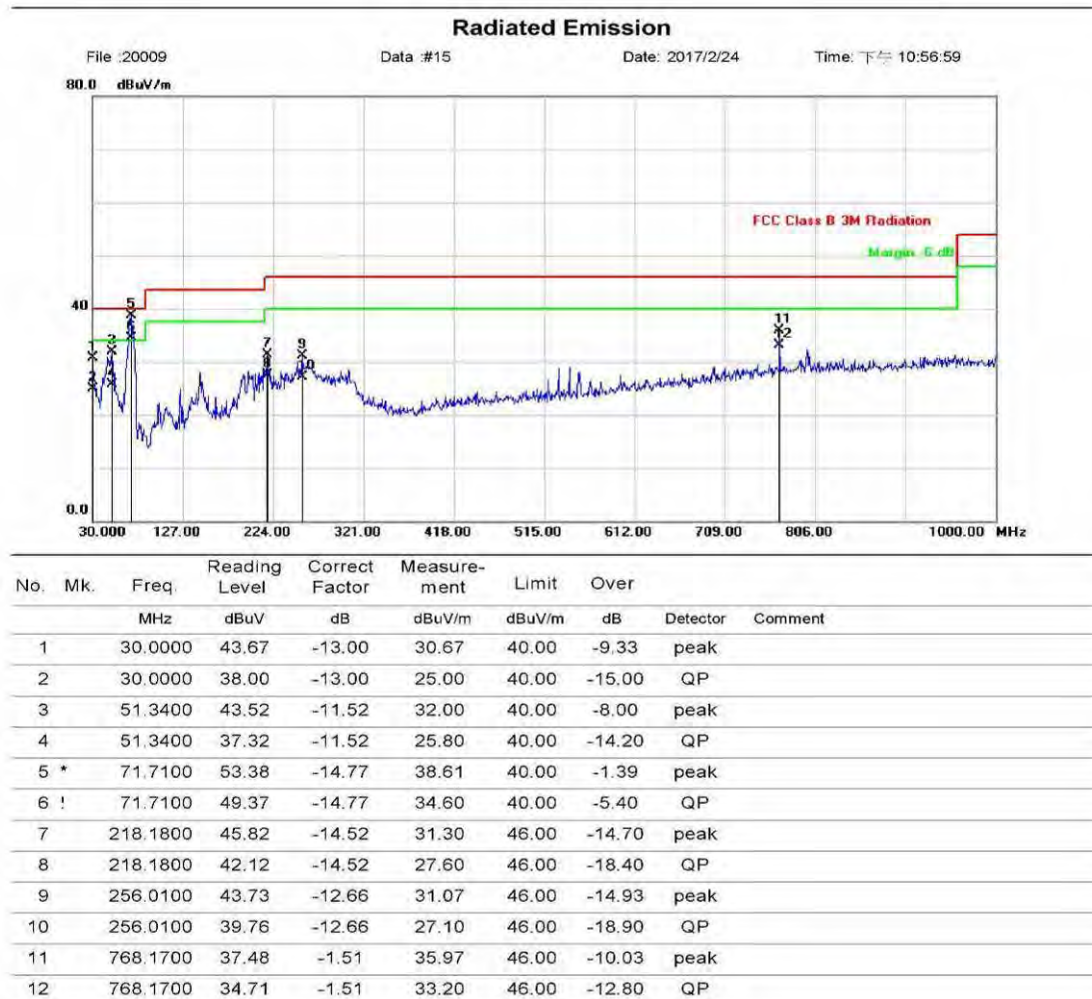


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Config_1_Read_V



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Config_1_Write_H

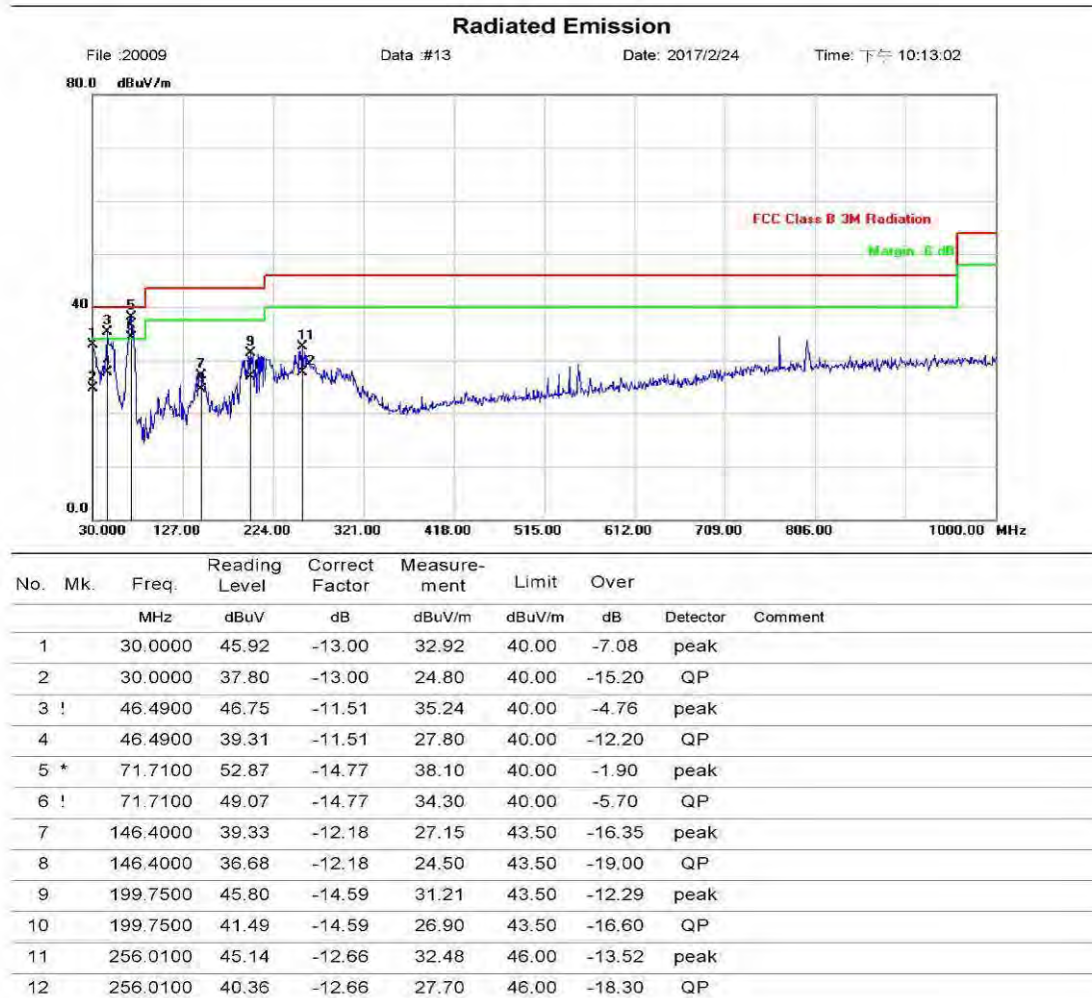


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Config_1_Write_V

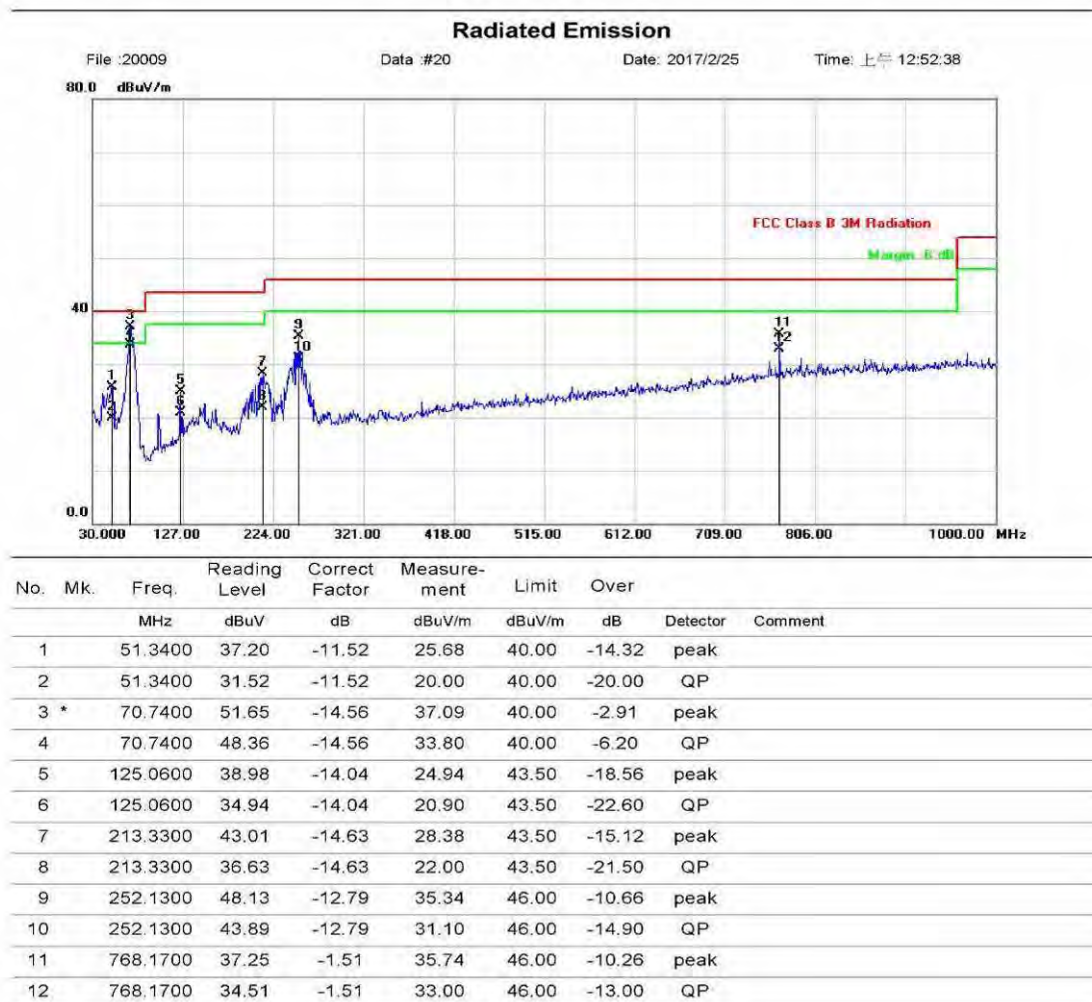


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Config_2_MP3 Play_H

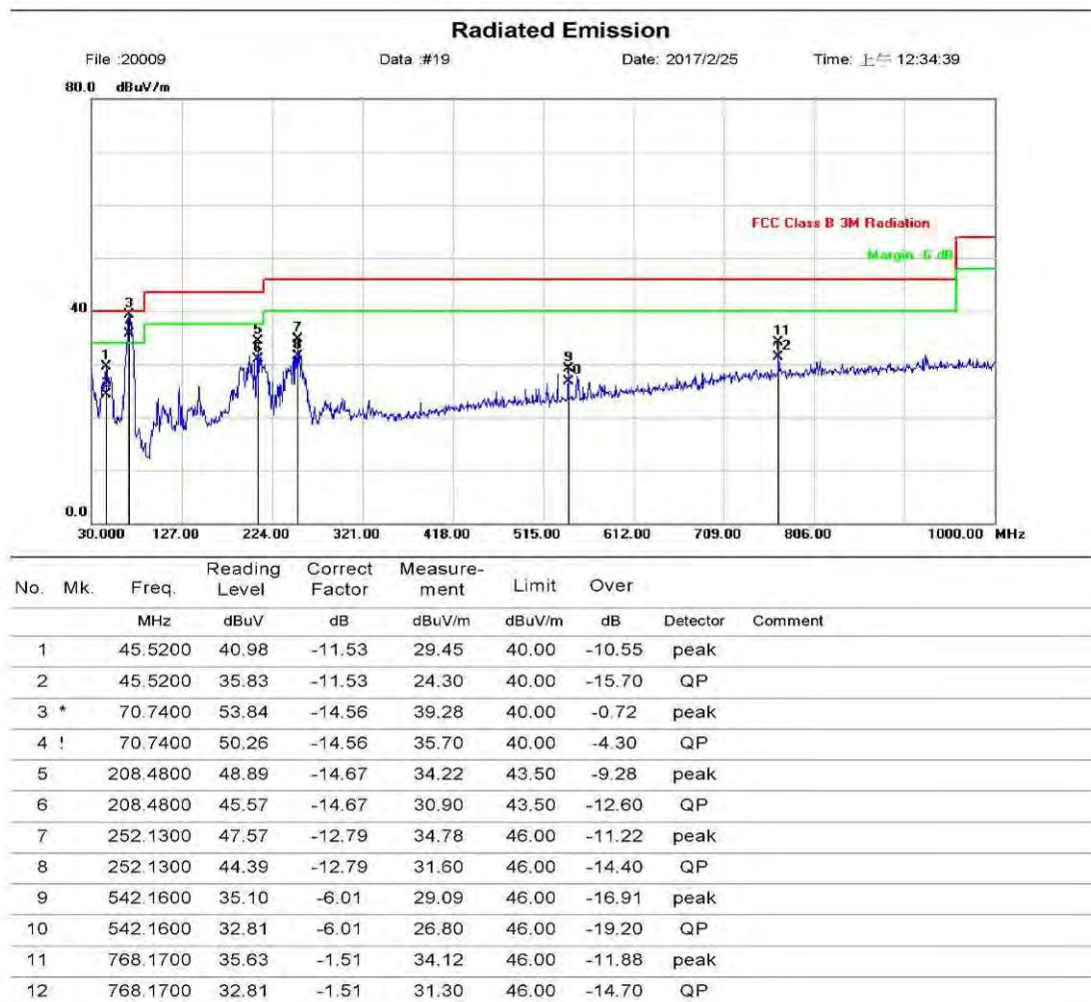


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Config_2_MP3 Play_V

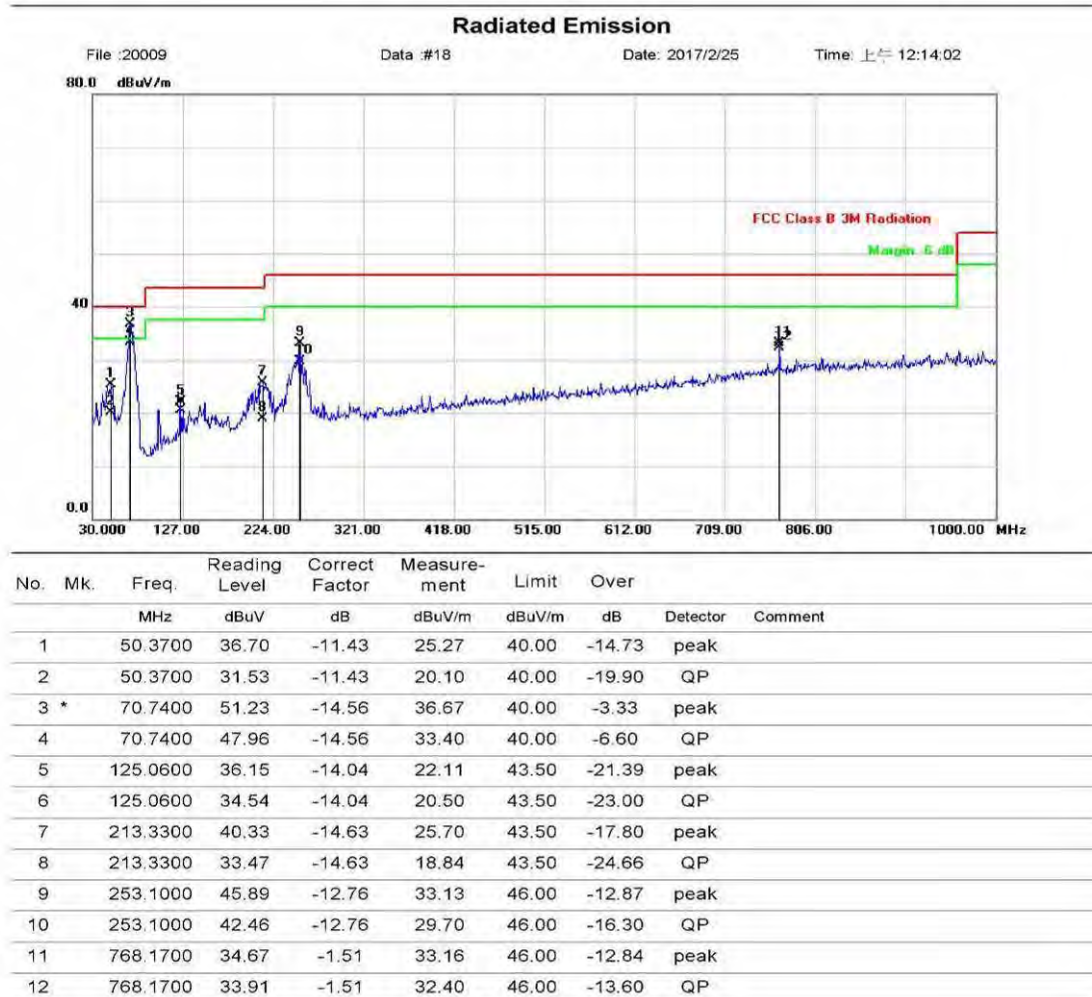


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Config_2_Play recording_H

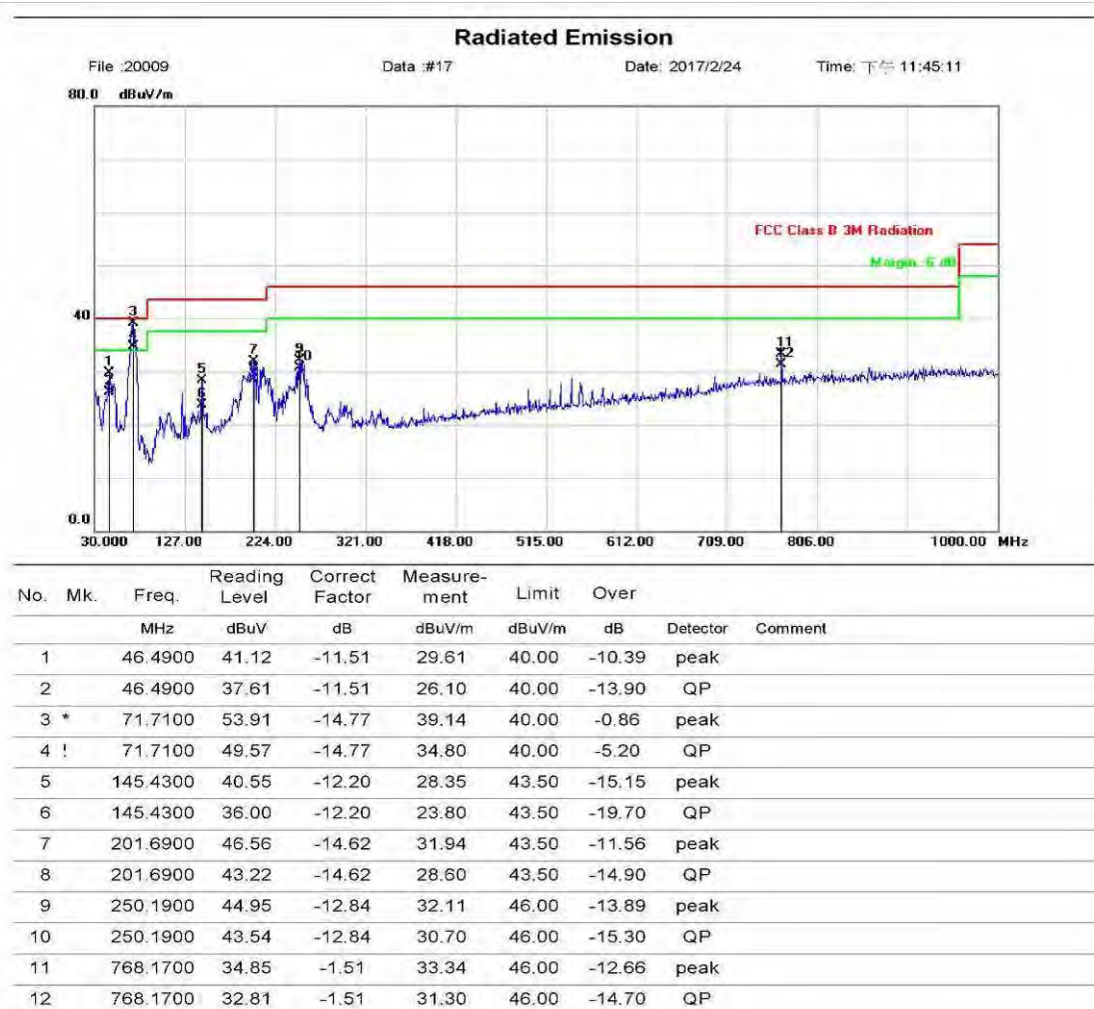


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Config_2_Play recording_V

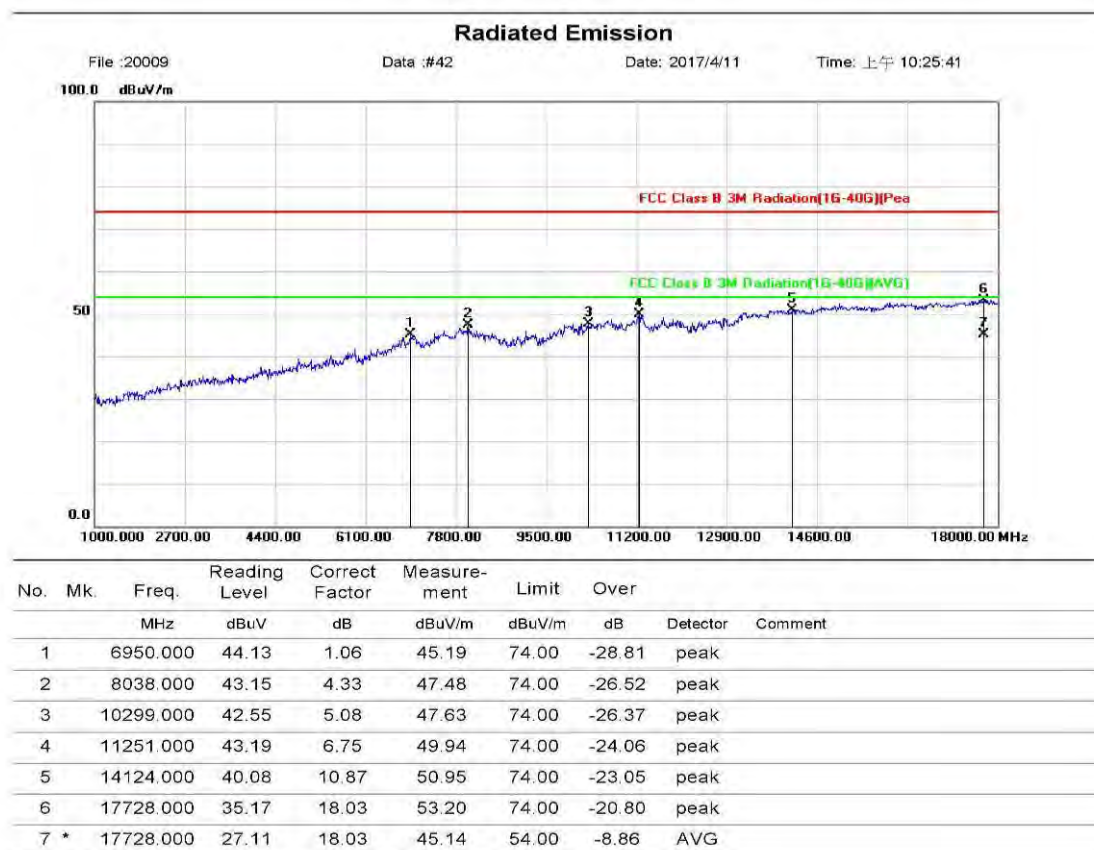


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Above 1GHz

Config_1_Read_H

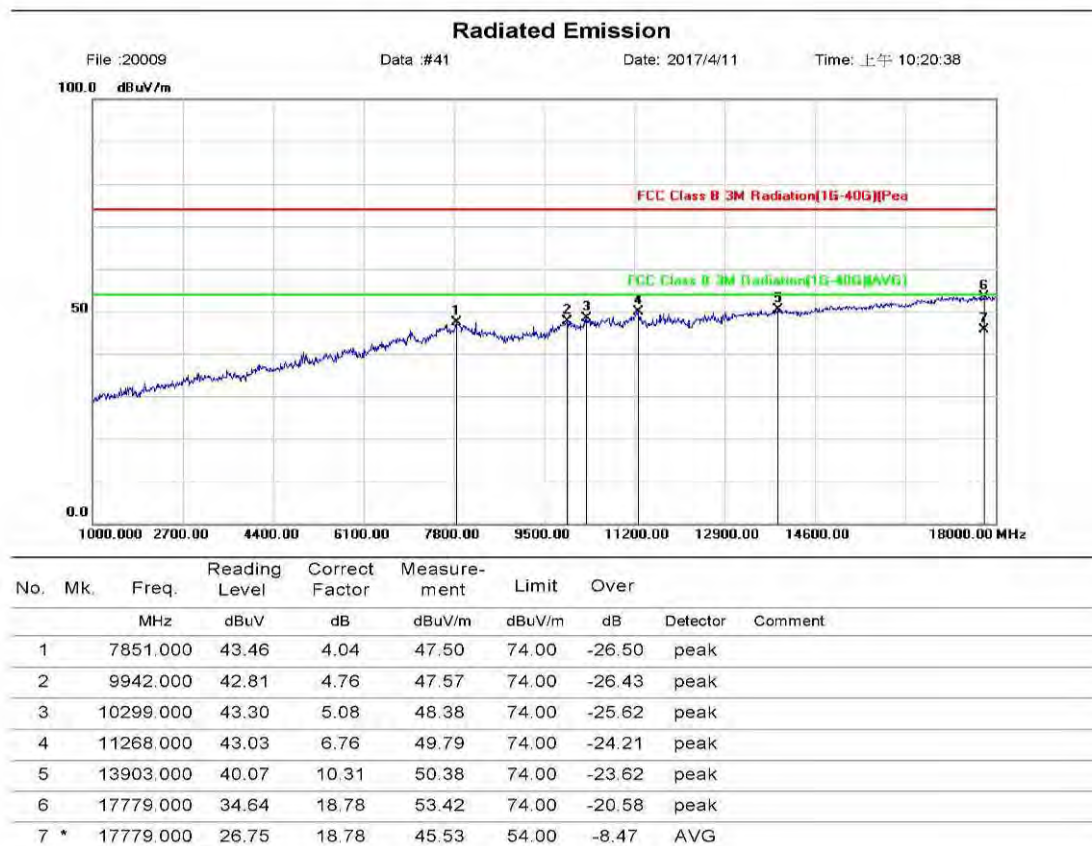


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Config_1_Read_V

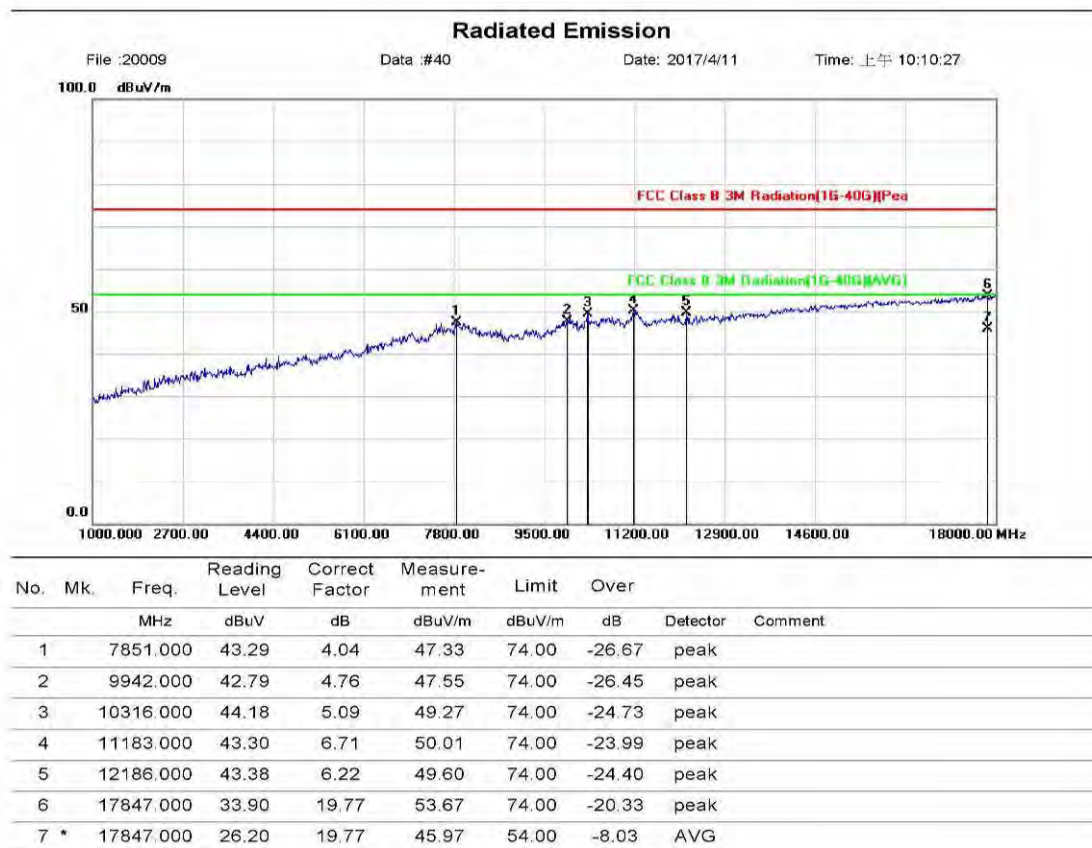


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Config_1_Write_H

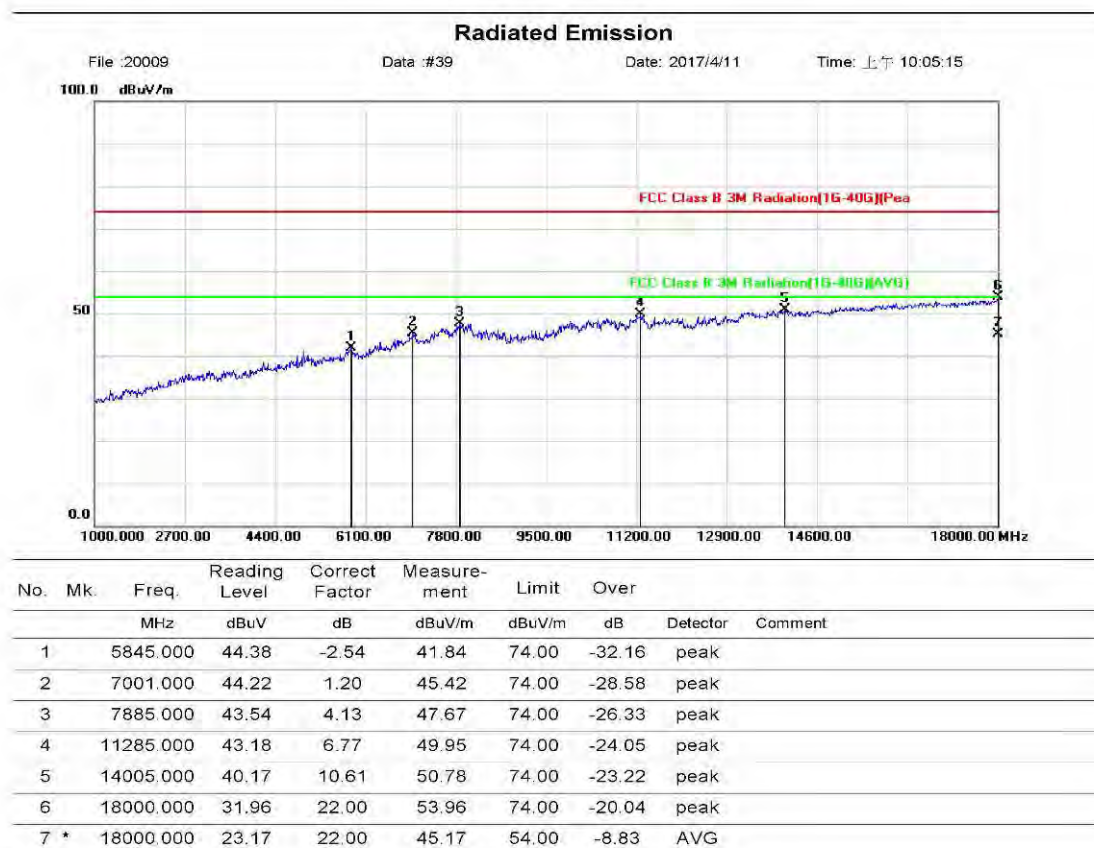


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Config_1_Write_V

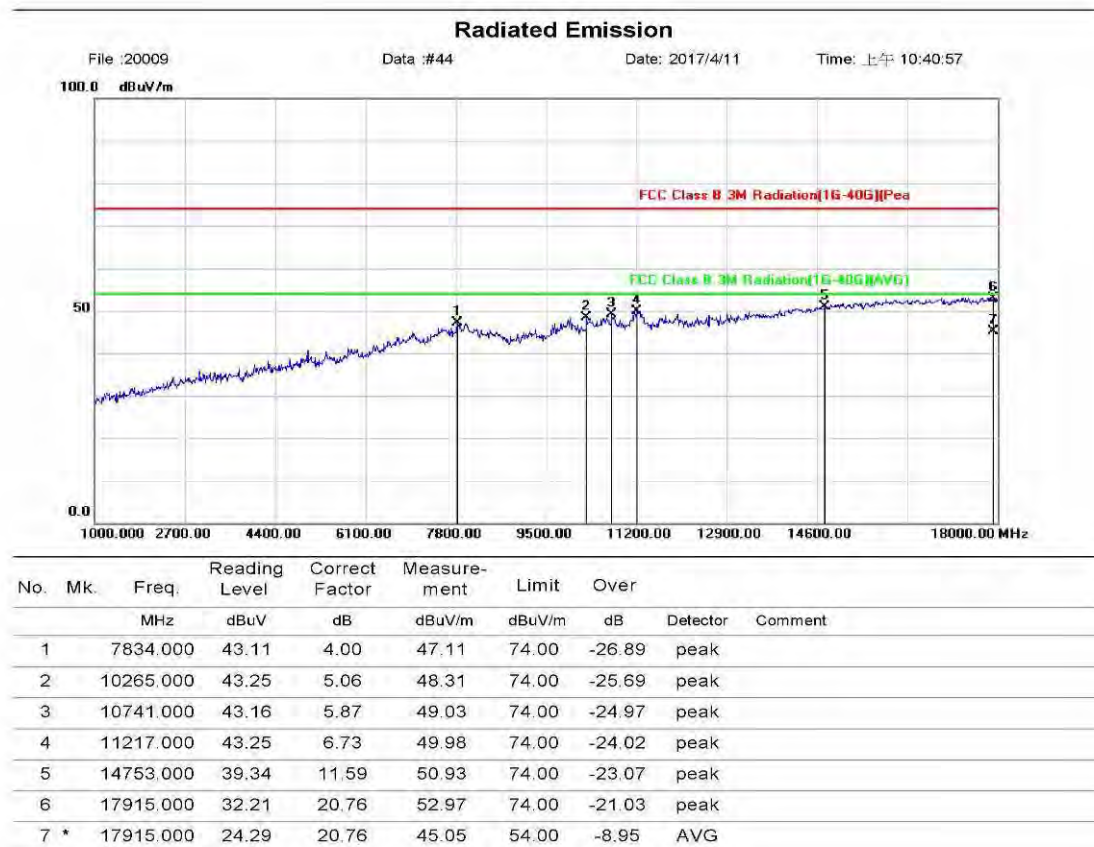


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Config_2_MP3 Play_H

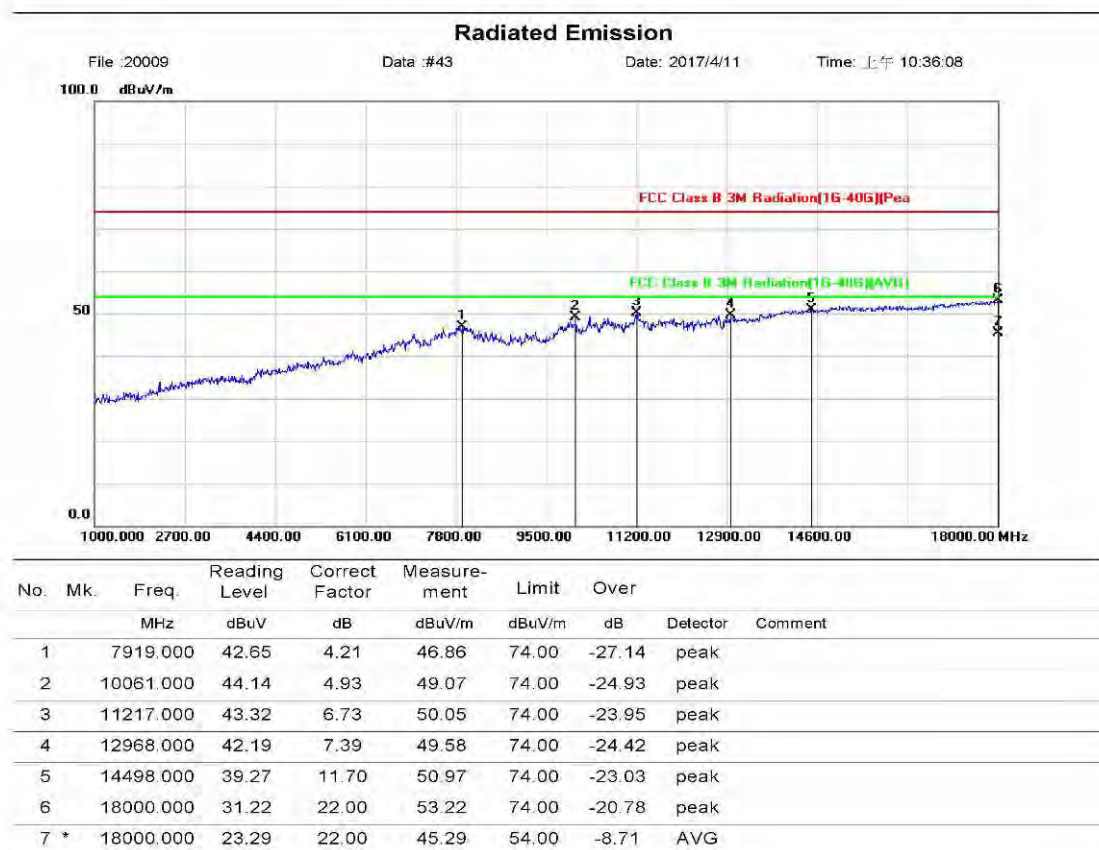


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Config_2_MP3 Play_V

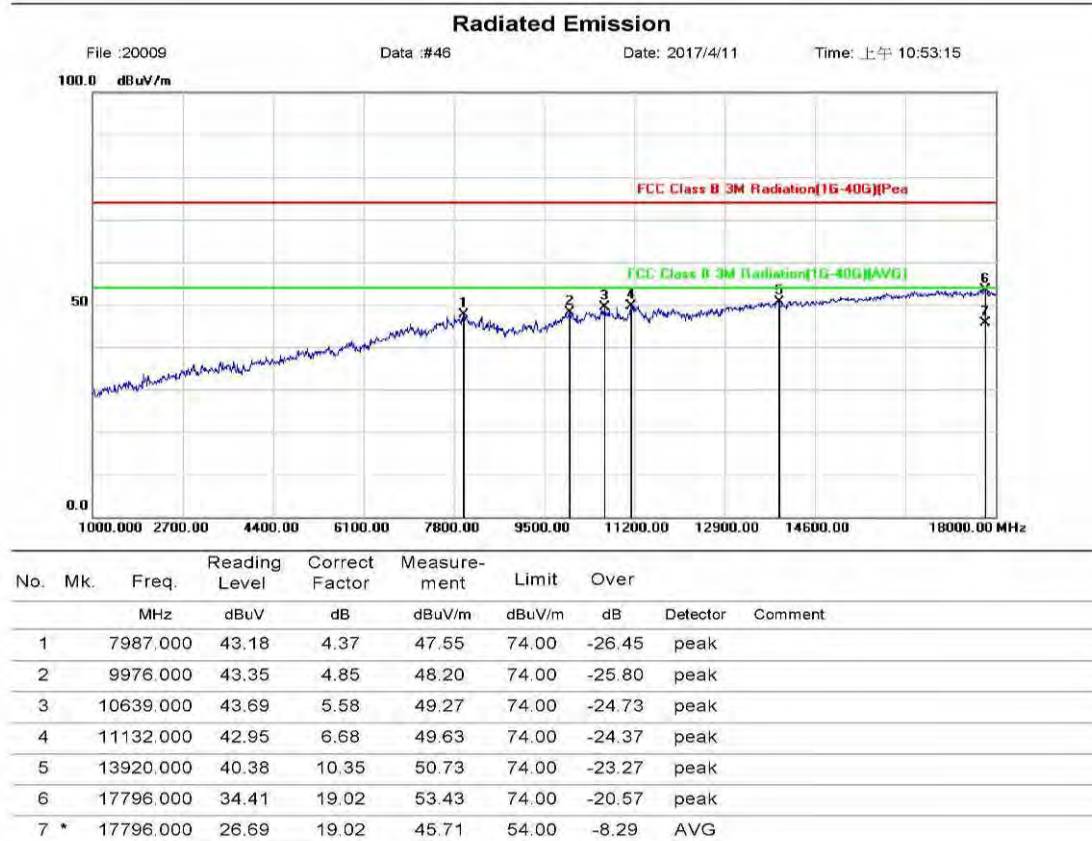


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Config_2_Play recording_H

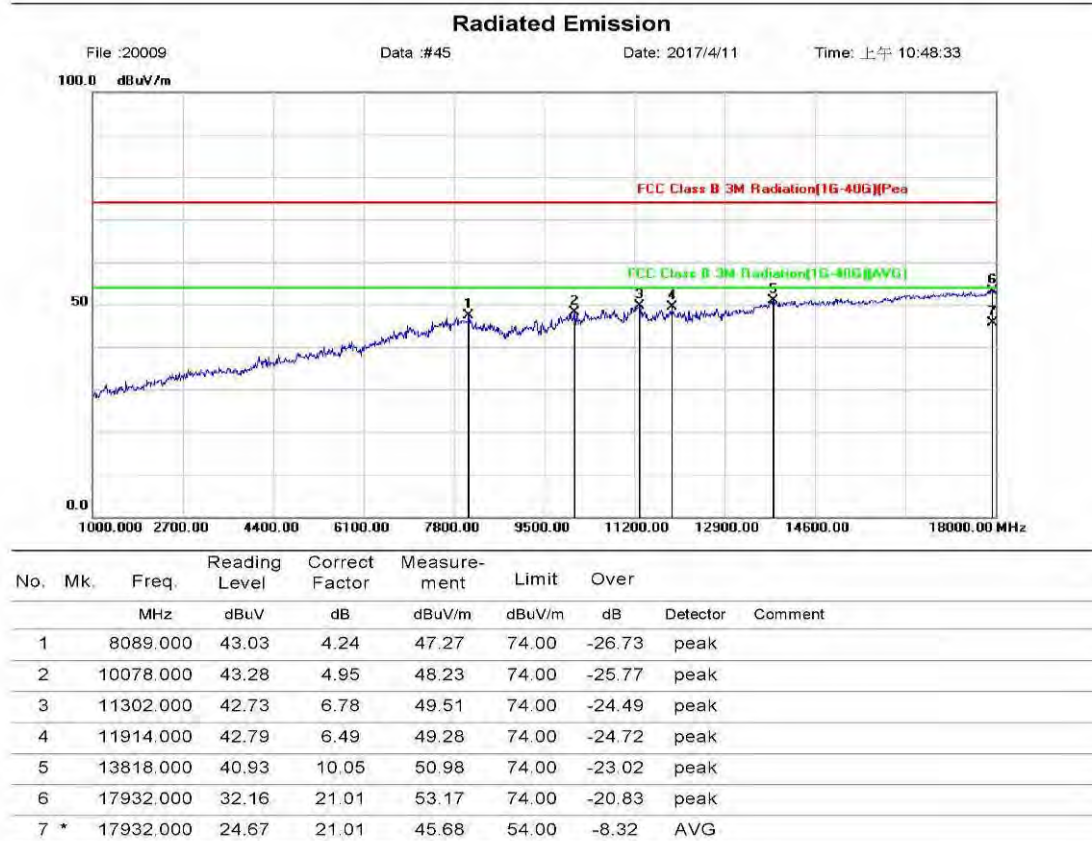


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Config_2_Play recording_V

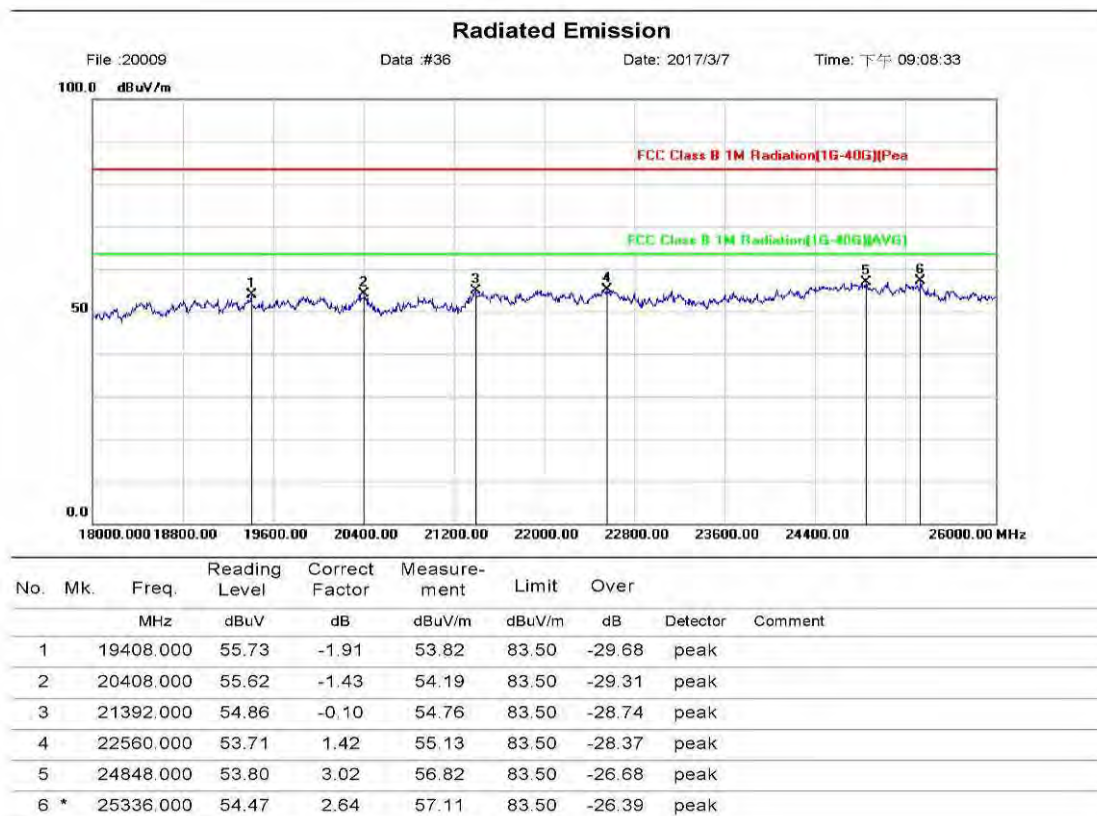


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18-26G Config_1_Read_H

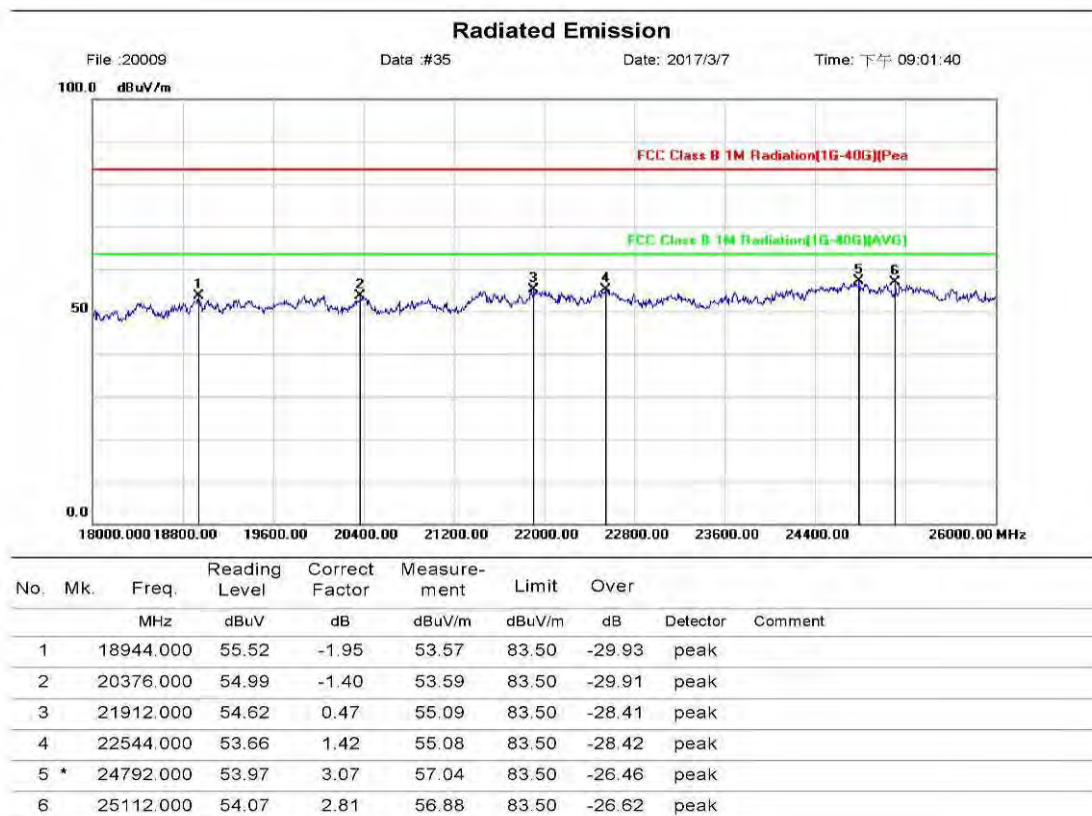


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Config_1_Read_V

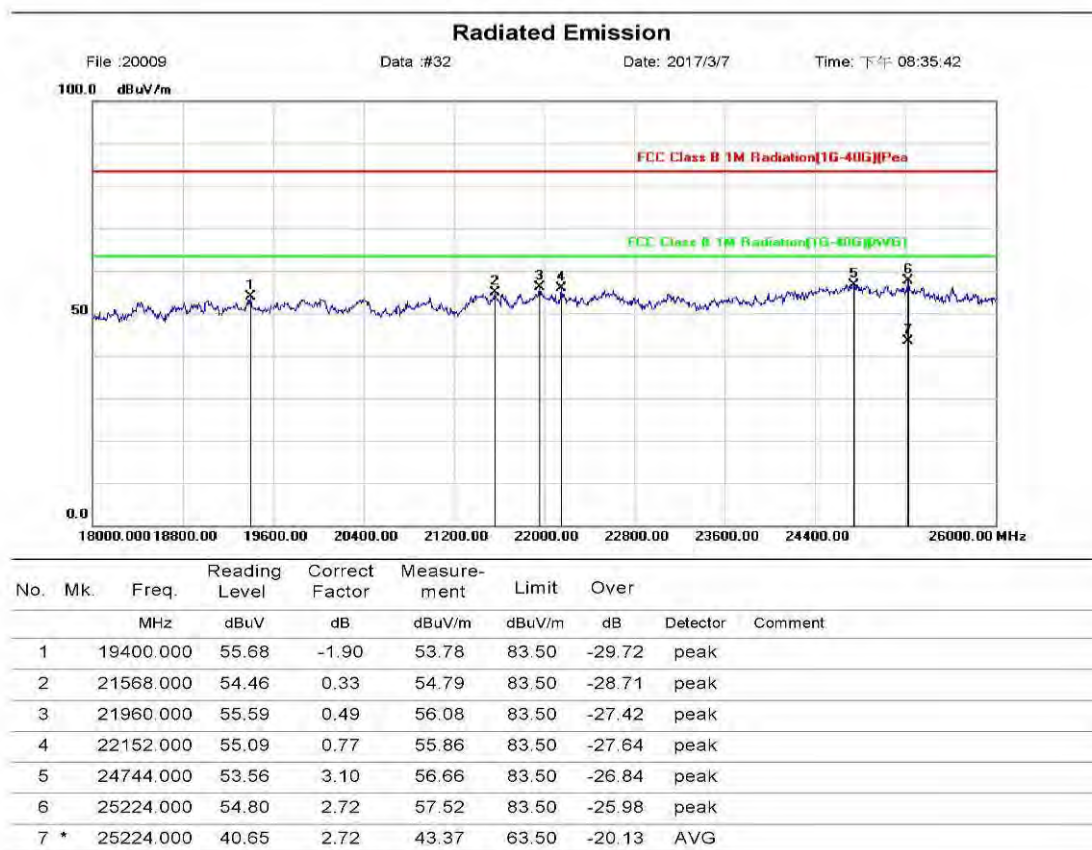


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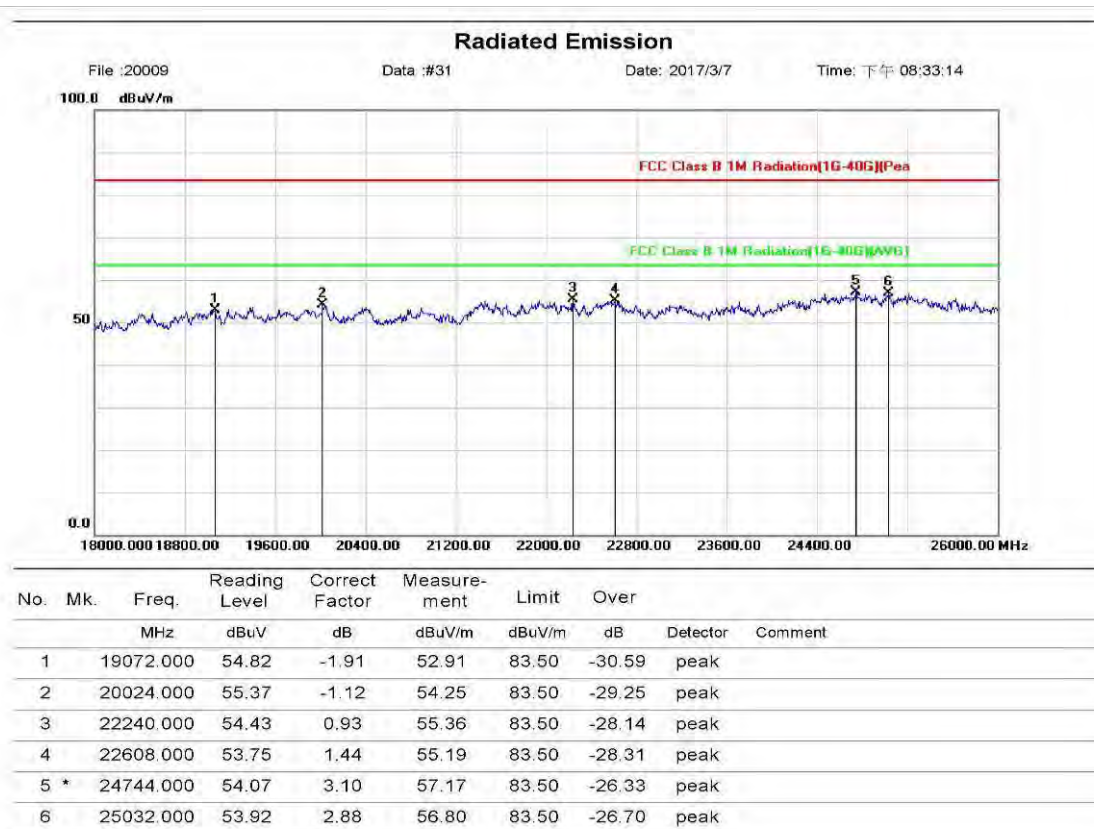
Config_1_Write_H



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Config_1_Write_V

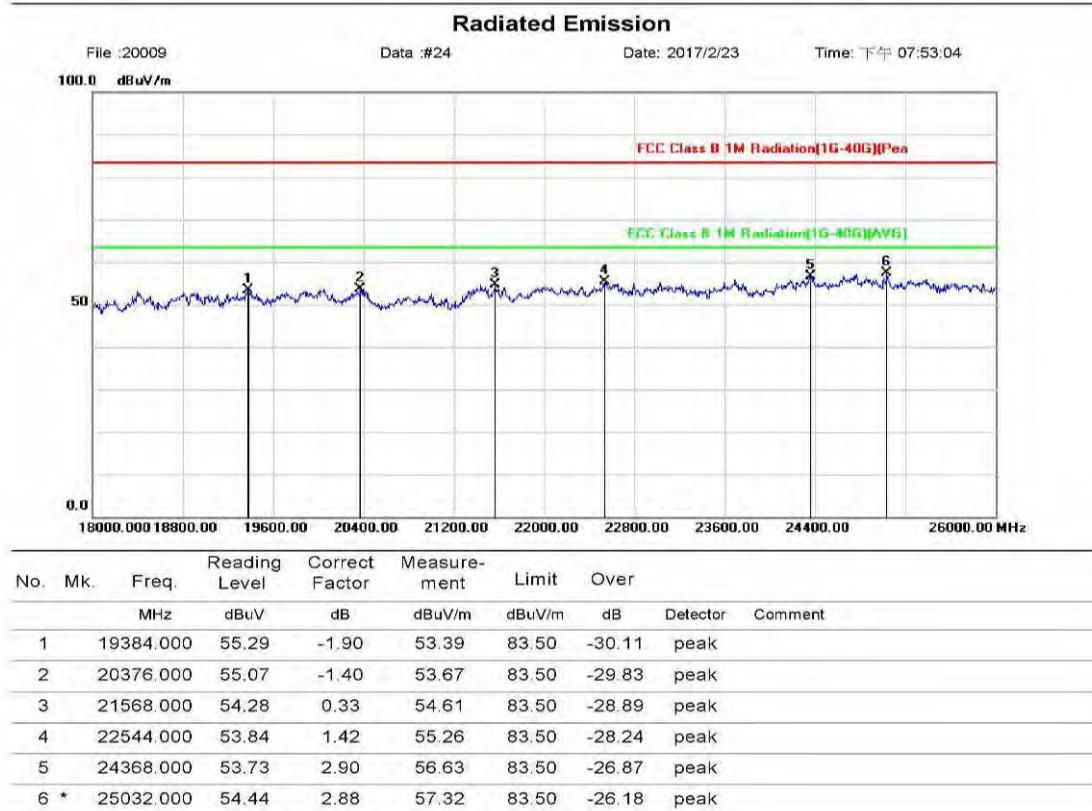


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Config_2_MP3 Play_H



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台灣檢驗科技股份有限公司

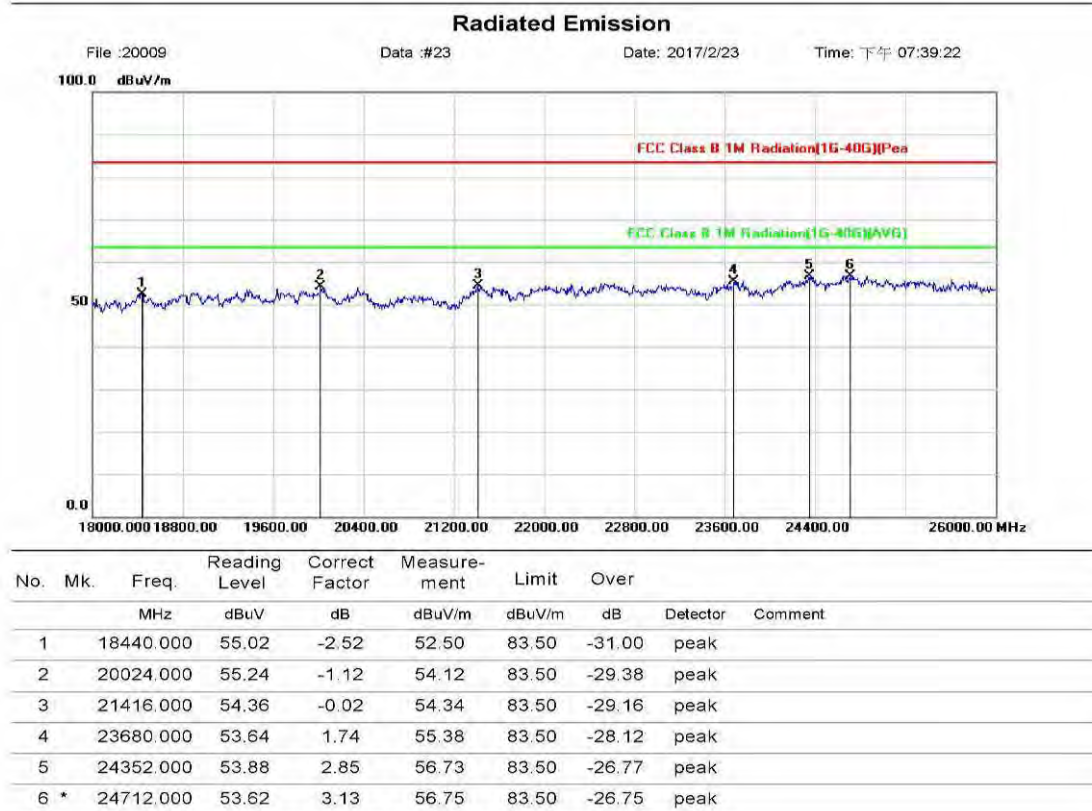
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Config_2_MP3 Play_V



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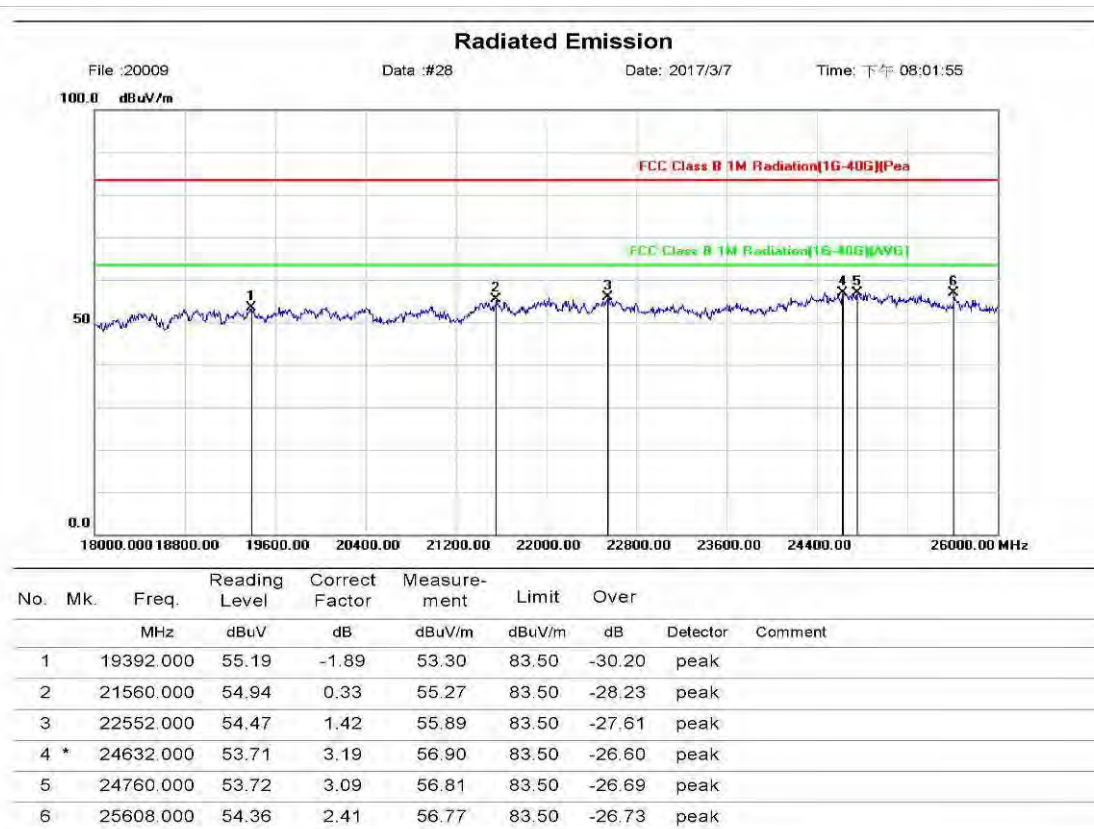
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Config_2_Play recording_H

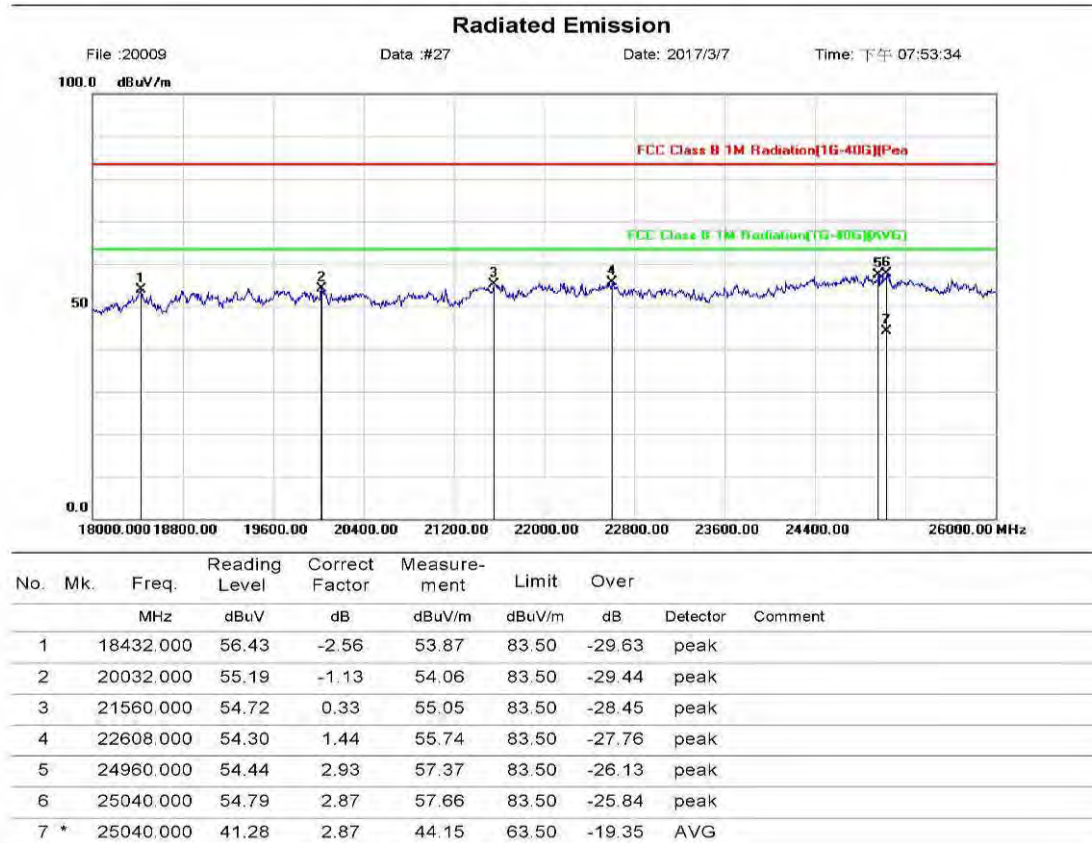


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Config_2_Play recording_V

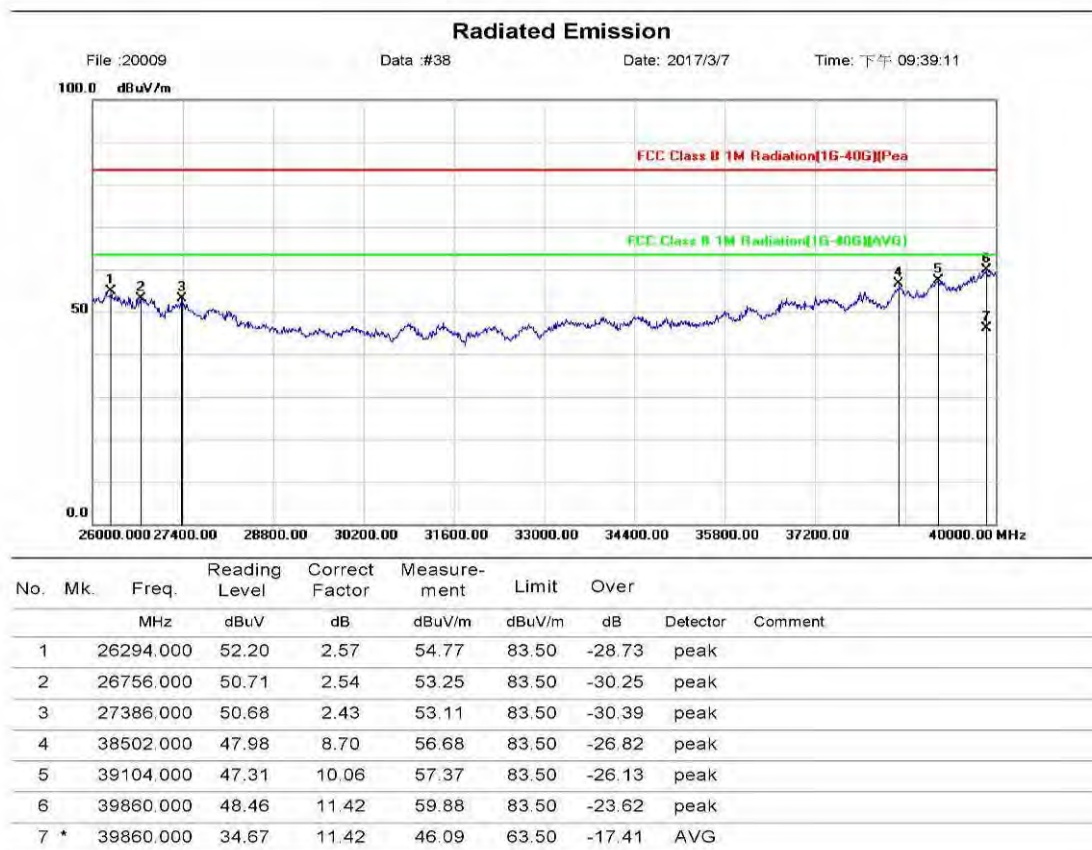


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26G~40G Config_1_Read_H



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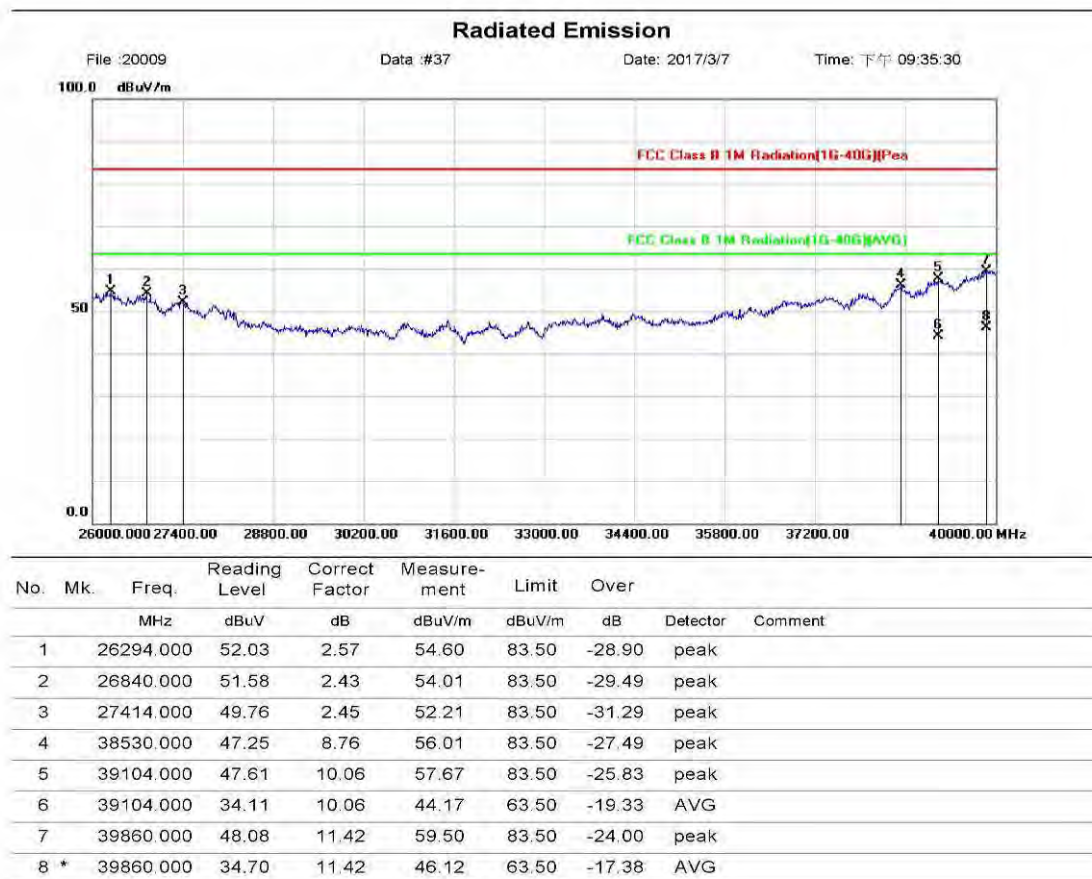
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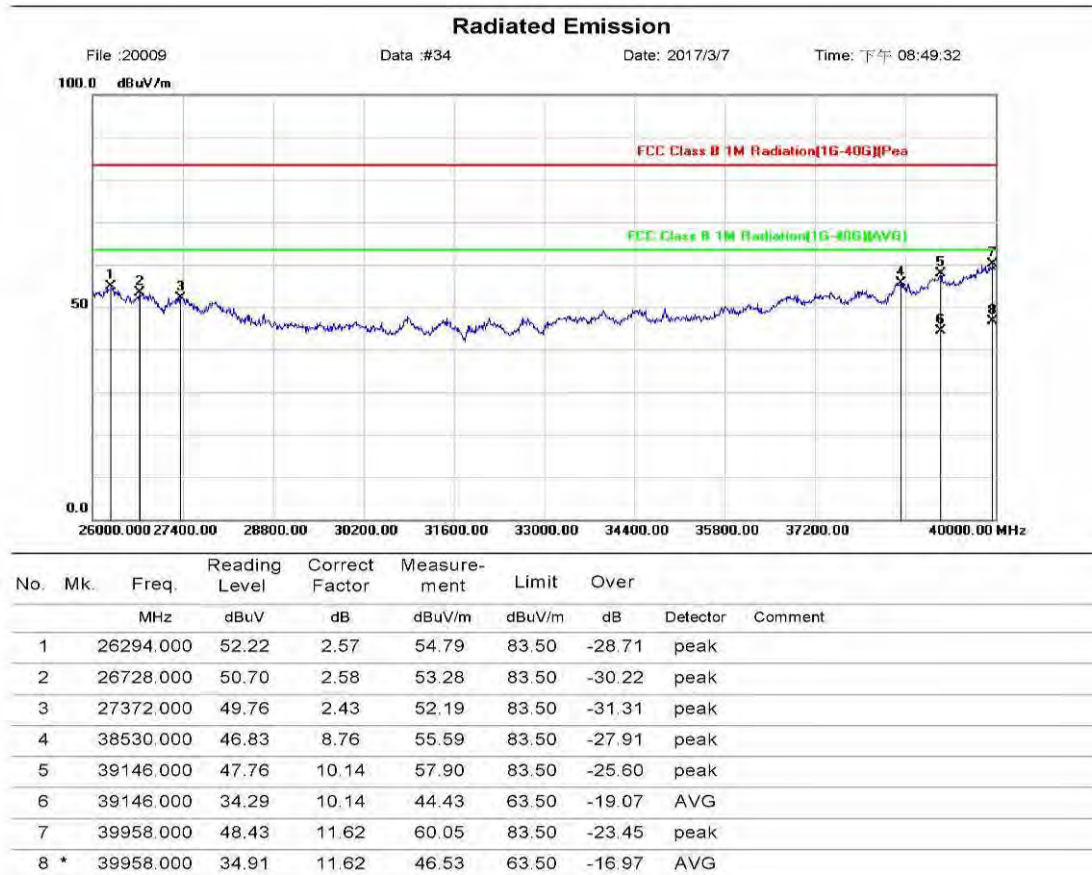
Config_1_Read_V



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Config_1_Write_H



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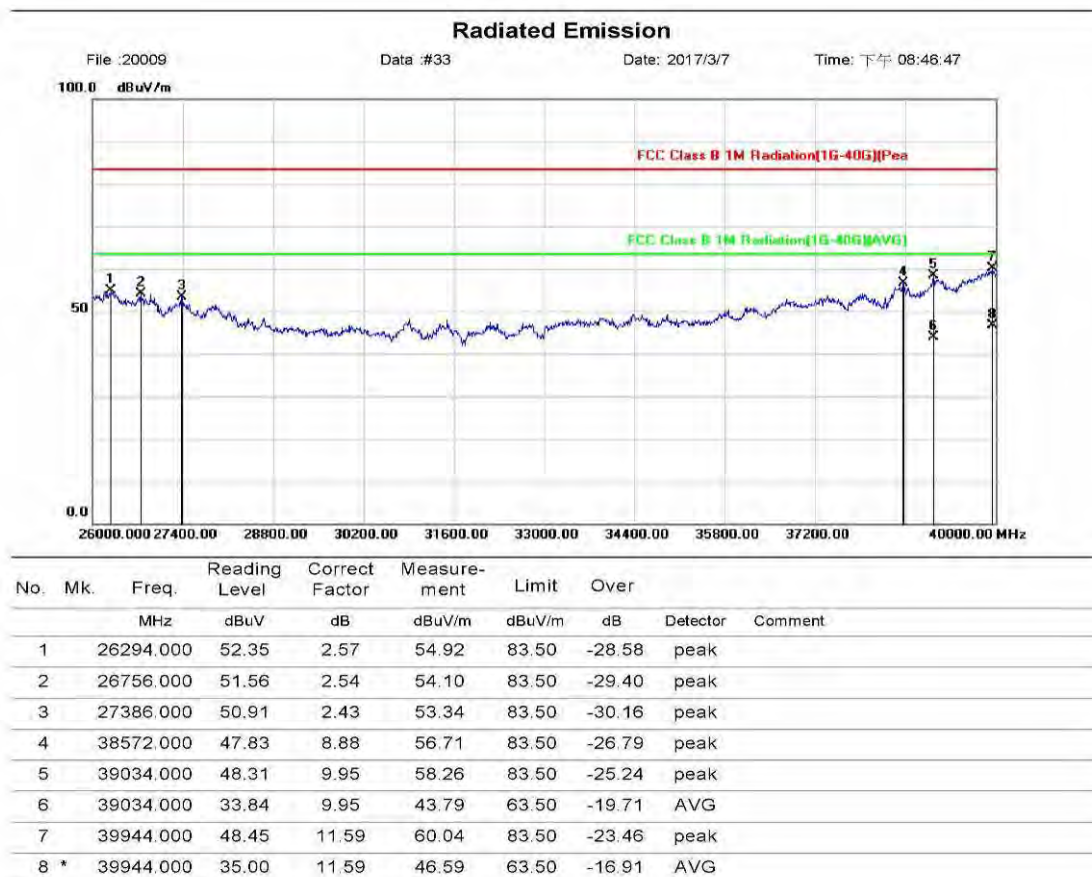
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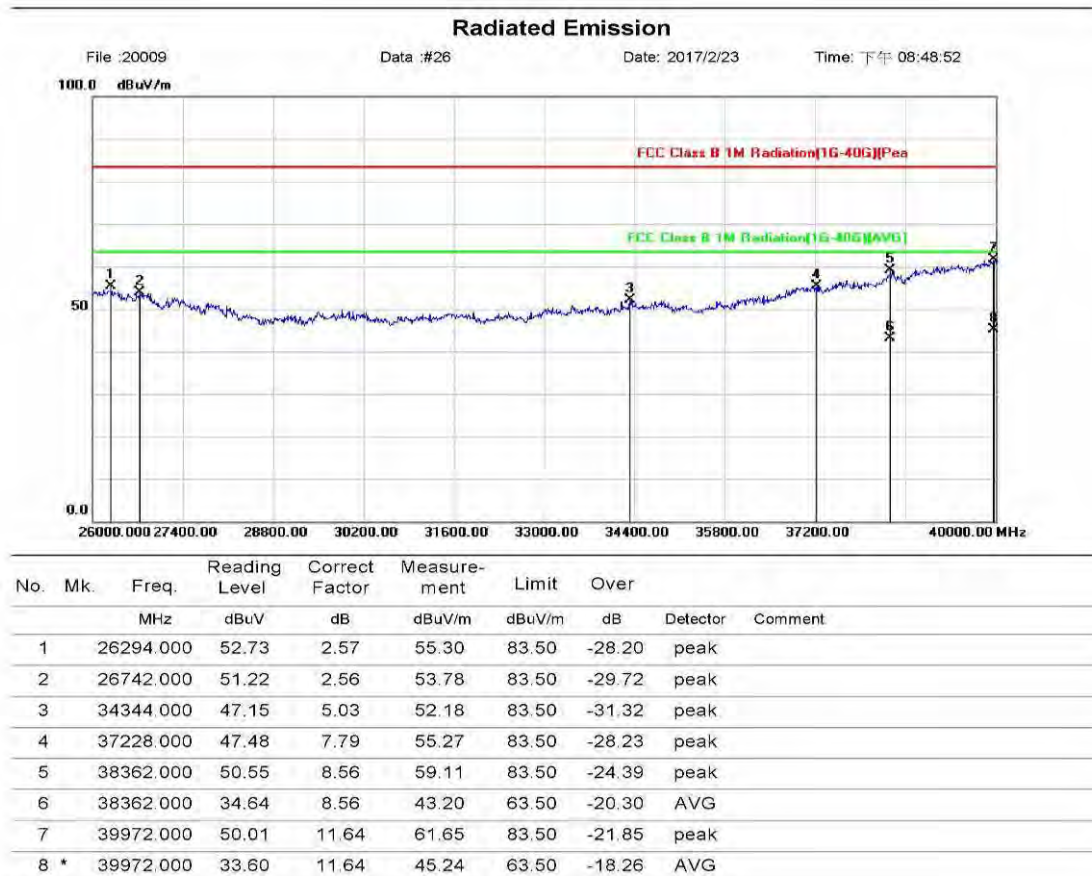
Config_1_Write_V



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Config_2_MP3 Play_H

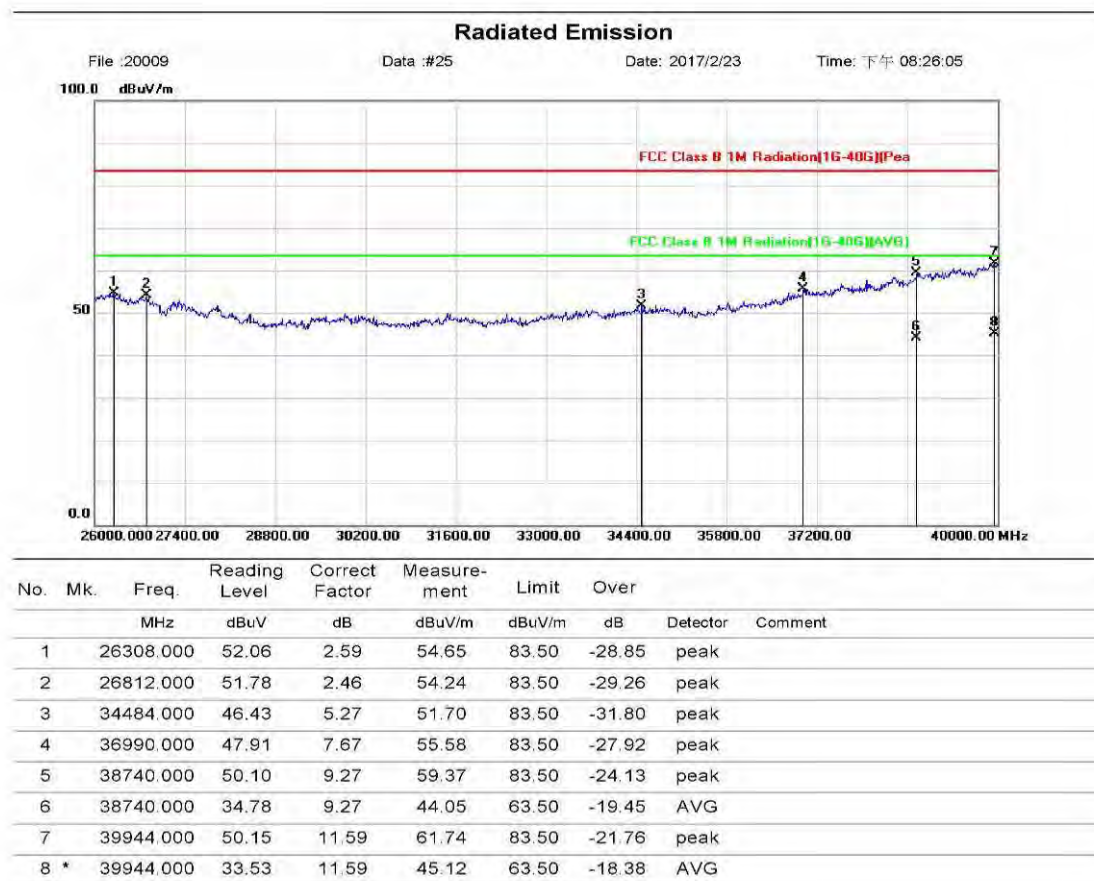


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Config_2_MP3 Play_V

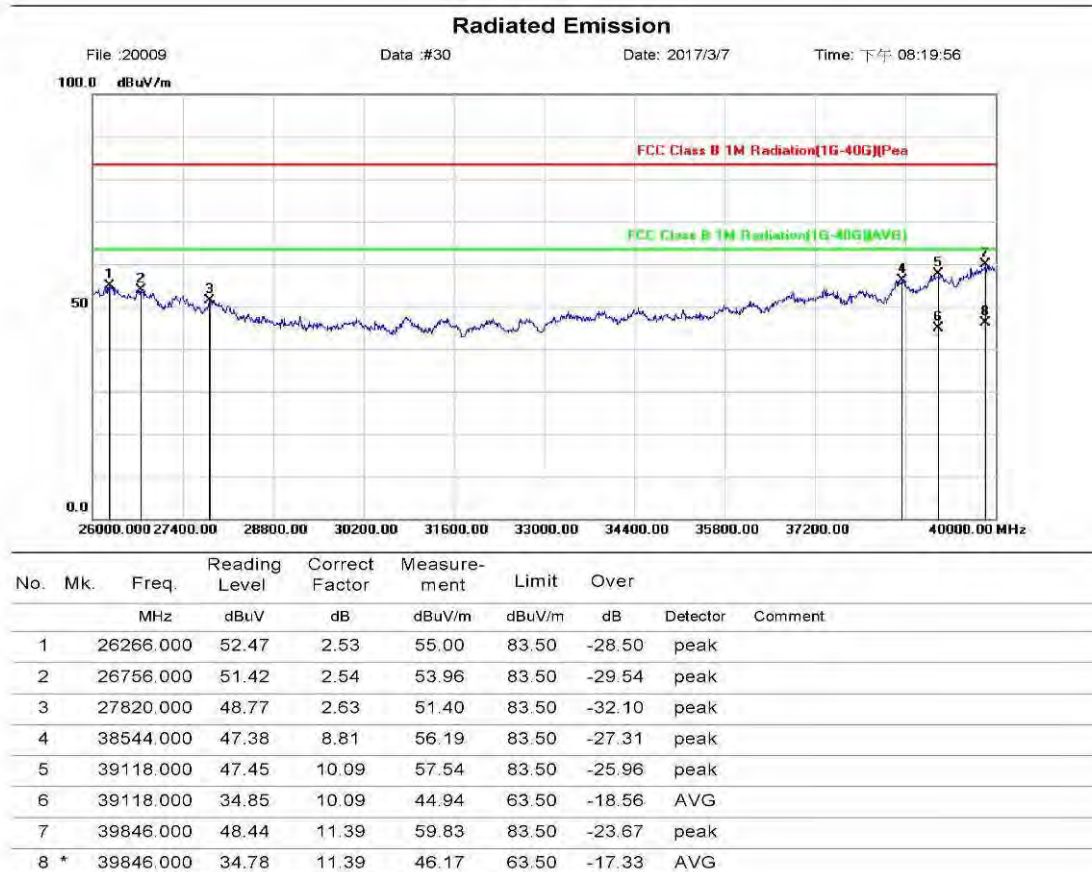


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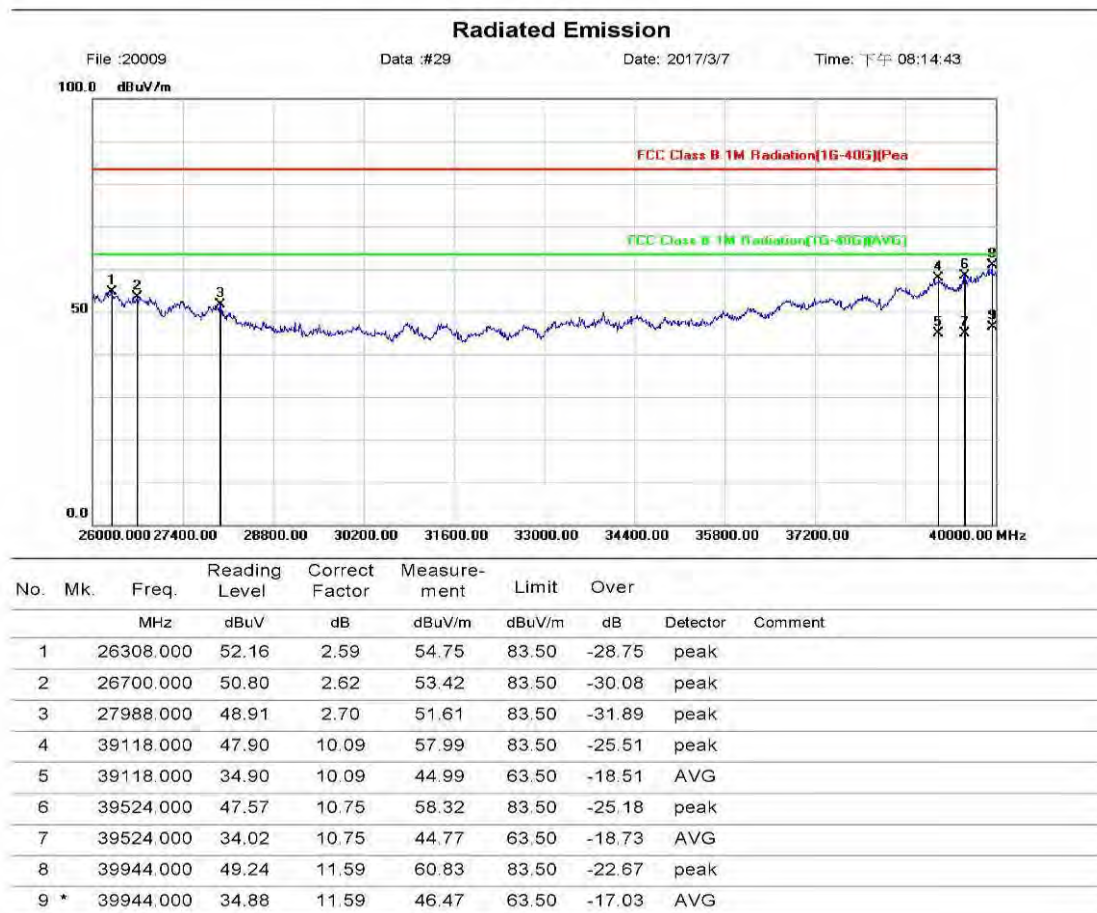
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