FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

FM Radio

MODEL NUMBER: FR-182US, FR-168BTS, FR-168BT, R-49BTS, R-150, R-150RG, R-298, R-898, R-805BT, R-806BT, R-9008BTS, R-2011BTS, R-528BTS, R-1968BT, R-1969BT, FM-356BS, FM-355BS, FM-1525U, FM-1526U, FR-118US

REPORT NUMBER: E04A24090821F00401

ISSUE DATE: October 28, 2024

FCC ID: 2BDSY-FR24

Prepared for

Dongguan Taiyi Electronics Co., LTD
45 Dafen Education Road, Wanjiang Street, Dongguan City, Guangdong Province

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products. This report shall not be reproduced, except in full, without the written approval of Guangdong Global Testing Technology Co., Ltd.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 28, 2024	Initial Issue	

Summary of Test Results

Emission			
Standard	**Test Item**	**Limit**	**Result**
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	Pass
	Radiated emissions below 1GHz	FCC Part 15.109	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Dongguan Taiyi Electronics Co., LTD
Address:	45 Dafen Education Road, Wanjiang Street, Dongguan City, Guangdong Province

Manufacturer Information

Company Name:	Dongguan Taiyi Electronics Co., LTD
Address:	45 Dafen Education Road, Wanjiang Street, Dongguan City, Guangdong Province

EUT Information

Product Description:	FM Radio
Model:	FR-182US, FR-168BTS, FR-168BT, R-49BTS, R-150, R-150RG, R-298, R-898, R-805BT, R-806BT, R-9008BTS, R-2011BTS, R-528BTS, R-1968BT, R-1969BT, FM-356BS, FM-355BS, FM-1525U, FM-1526U, FR-118US
Brand:	/
Sample Received Date:	September 30, 2024
Sample Status:	Normal
Sample ID:	A24090821 001
Date of Tested:	September 30, 2024 to October 18, 2024

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR Part 15 Subpart B	**Pass**

Prepared By:

Jok Yang

Project Engineer

Checked By:

Alan He

Laboratory Leader

Approved By:

Shawn Wen

Laboratory Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions	0.009 MHz - 30 MHz	2	3.37
Radiated emissions below 1GHz	30 MHz -1 GHz	2	3.79
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			
Note 2: According to the standard CISPR 16-4-2, the MU for the Conducted emissions from the AC mains power ports using AMN should not exceed 3.8 in range of 9kHz to 150kHz and 3.4 in range of 150kHz to 30MHz. We have considered the test results containing the value of Ulab (in dB) for the measurement instrumentation actually used for the measurements.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		FM Radio
Model		FR-182US
Series Model		FR-168BTS, FR-168BT, R-49BTS, R-150, R-150RG, R-298, R-898, R-805BT, R-806BT, R-9008BTS, R-2011BTS, R-528BTS, R-1968BT, R-1969BT, FM-356BS, FM-355BS, FM-1525U, FM-1526U, FR-118US
EUT Classification		Class B
Internal Frequency		below 108MHz
Hardware Version		V1.0
Software Version		V1.0
Ratings		DC 5V / Battery 3.7V
Battery Ratings		3.7V 800mAh
Power Supply	DC	5V
	Battery	3.7V

5.2. TEST MODE

Test Mode	Description
M01	Normal Working: Operate according to the user manual (AM）
M02	Normal Working: Operate according to the user manual (FM）
M03	Normal Working: Operate according to the user manual (SW)
M04	Normal Working: Operate according to the user manual (U disk+light）
M05	Normal Working: Operate according to the user manual (TF card+ earphone）

5.3. SUPPORT UNITS FOR SYSTEM TEST

No.	Equipment	Manufacturer	Model No.	Serial No.
1	U disk	Kingston	/	/
2	TF Card	Kingston	/	/
3	Adapter	UGREEN	CD170	/
4	USB-C cable(1m)	UGREEN	/	/
5	Earphone(1.5m)	Huawei	/	/

6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted emissions					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Shielding Room 1	CHENG YU	8*5*4	N/A	10/29/2022	10/28/2025
LISN	R&S	ENV216	102843	9/13/2024	9/12/2025
EMI Test Receiver	R&S	ESR3	102647	9/14/2024	9/13/2025
LISN	Schwarzbeck	NNLK 8129 RC	5046	9/13/2024	9/12/2025
8-Wire ISN CAT6	Schwarzbeck	NTFM 8158	#237	9/14/2024	9/13/2025
CURRENT PROBE	R&S	EZ-17	101602	9/14/2024	9/13/2025
Test Software for CE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
Chamber	ETS	9*6*6	Q2146	8/30/2022	8/29/2025
Receiver	R&S	ESCI3	101409	9/14/2024	9/13/2025
Loop Antenna	ETS	6502	243668	3/30/2022	3/30/2025
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	9/14/2024	9/13/2025
Biconilog Antenna	Schwarzbeck	VULB 9168	1315	10/10/2022	10/9/2025
Biconilog Antenna	ETS	3142E	243646	3/23/2022	3/22/2025
Test Software for RE	Farad	EZ-EMC	V1.1.4.2	N/A	N/A

7. EMISSION TEST

7.1. CONDUCTED EMISSIONS

LIMITS

CFR 47 FCC Part15 Subpart B				
FREQUENCY (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46*
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

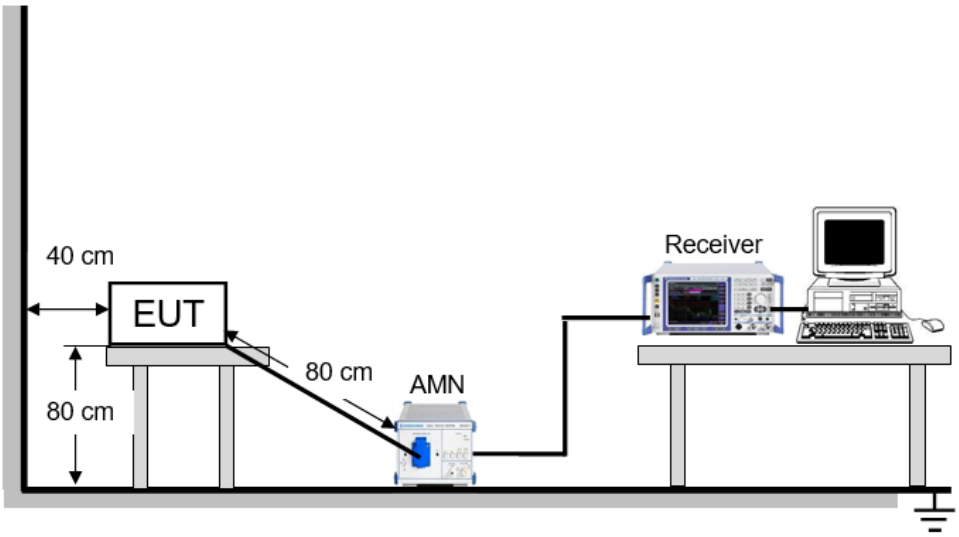
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

5. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

6. LISN at least 80 cm from nearest part of EUT chassis.

7. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

TEST SETUP



TEST ENVIRONMENT

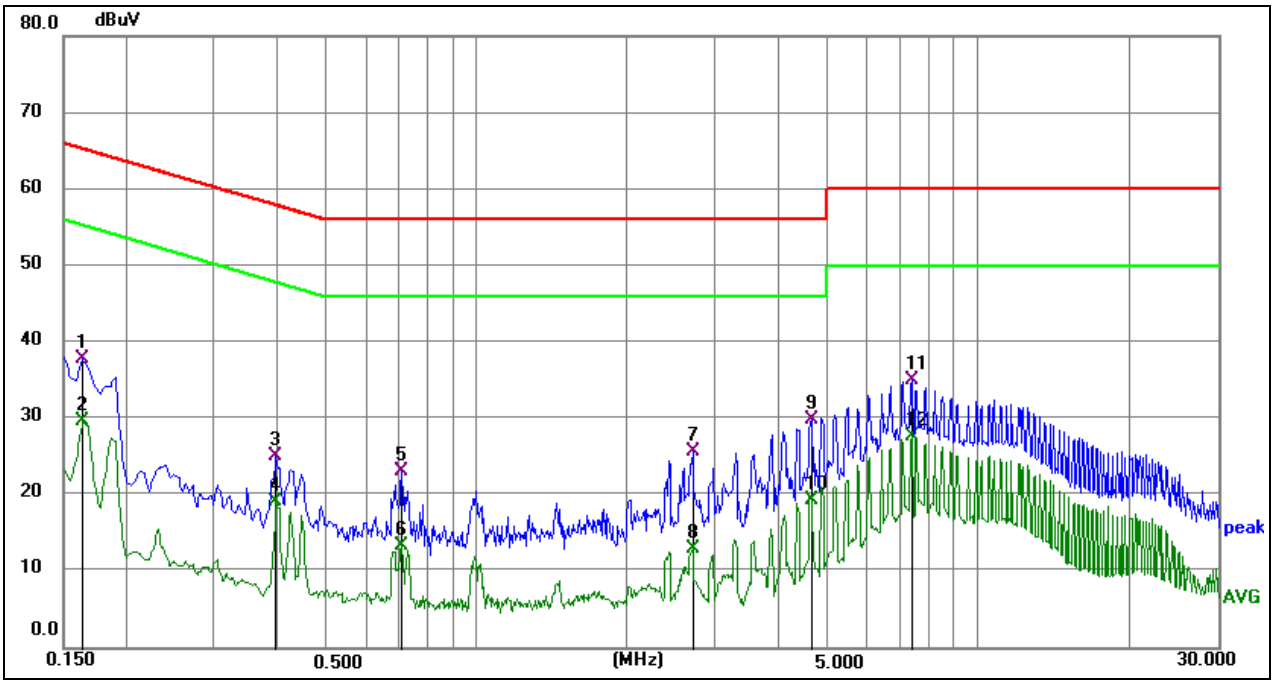
Temperature	22.8℃	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M05
Final Test Mode:	M01, M02, M03, M04, M05

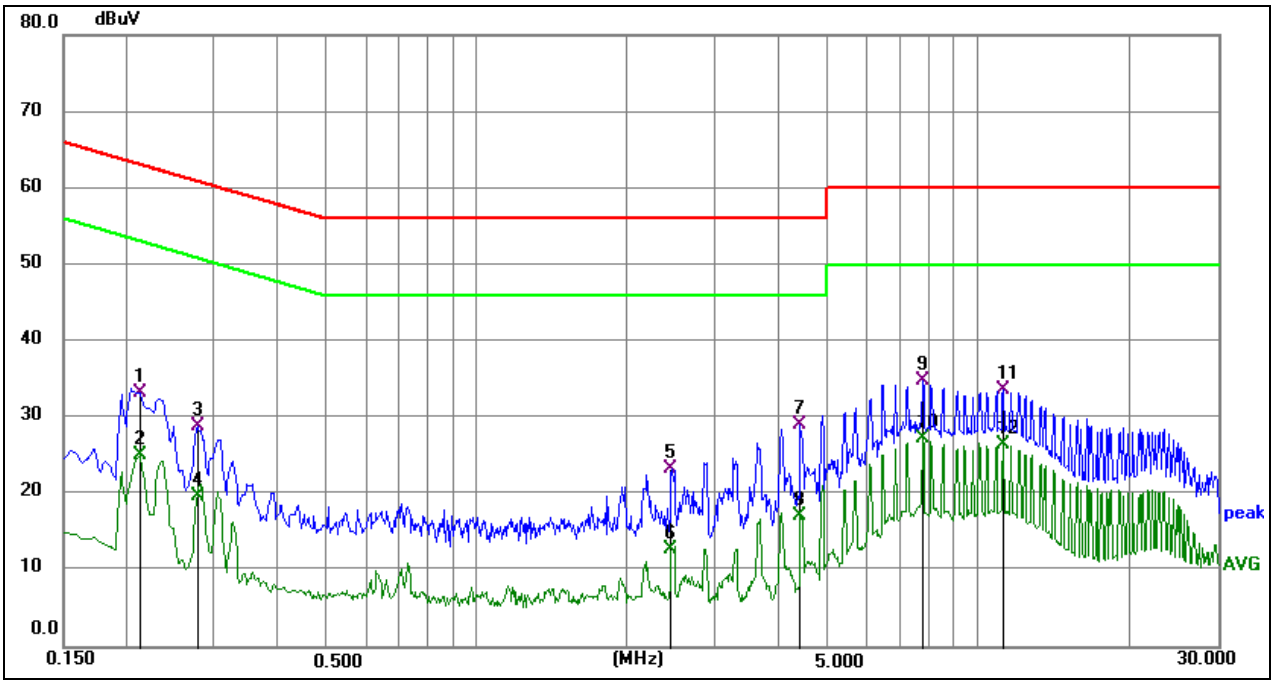
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



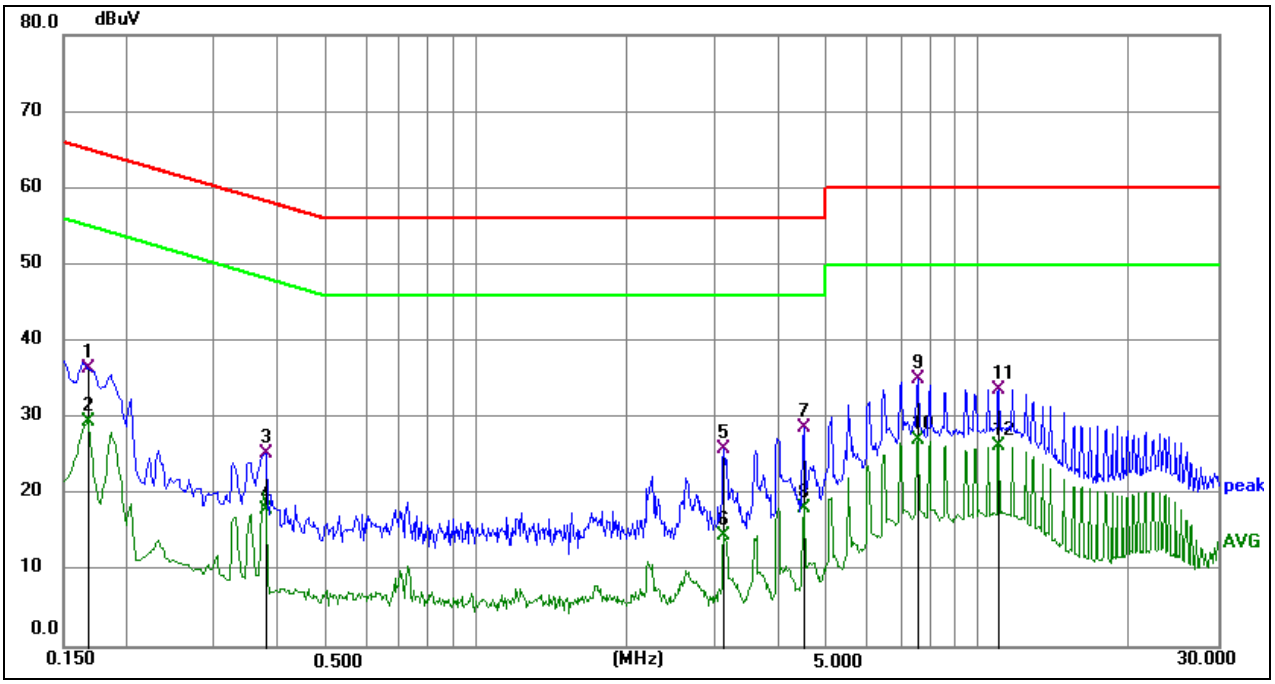
Phase: L1	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1635	28.03	9.83	37.86	65.28	-27.42	QP
2	0.1635	19.76	9.83	29.59	55.28	-25.69	AVG
3	0.3975	15.23	9.79	25.02	57.91	-32.89	QP
4	0.3975	9.36	9.79	19.15	47.91	-28.76	AVG
5	0.7080	13.20	9.85	23.05	56.00	-32.95	QP
6	0.7080	3.53	9.85	13.38	46.00	-32.62	AVG
7	2.7060	15.86	9.82	25.68	56.00	-30.32	QP
8	2.7060	3.21	9.82	13.03	46.00	-32.97	AVG
9	4.6544	20.14	9.81	29.95	56.00	-26.05	QP
10	4.6544	9.52	9.81	19.33	46.00	-26.67	AVG
11	7.3680	25.33	9.77	35.10	60.00	-24.90	QP
12	7.3680	17.93	9.77	27.70	50.00	-22.30	AVG



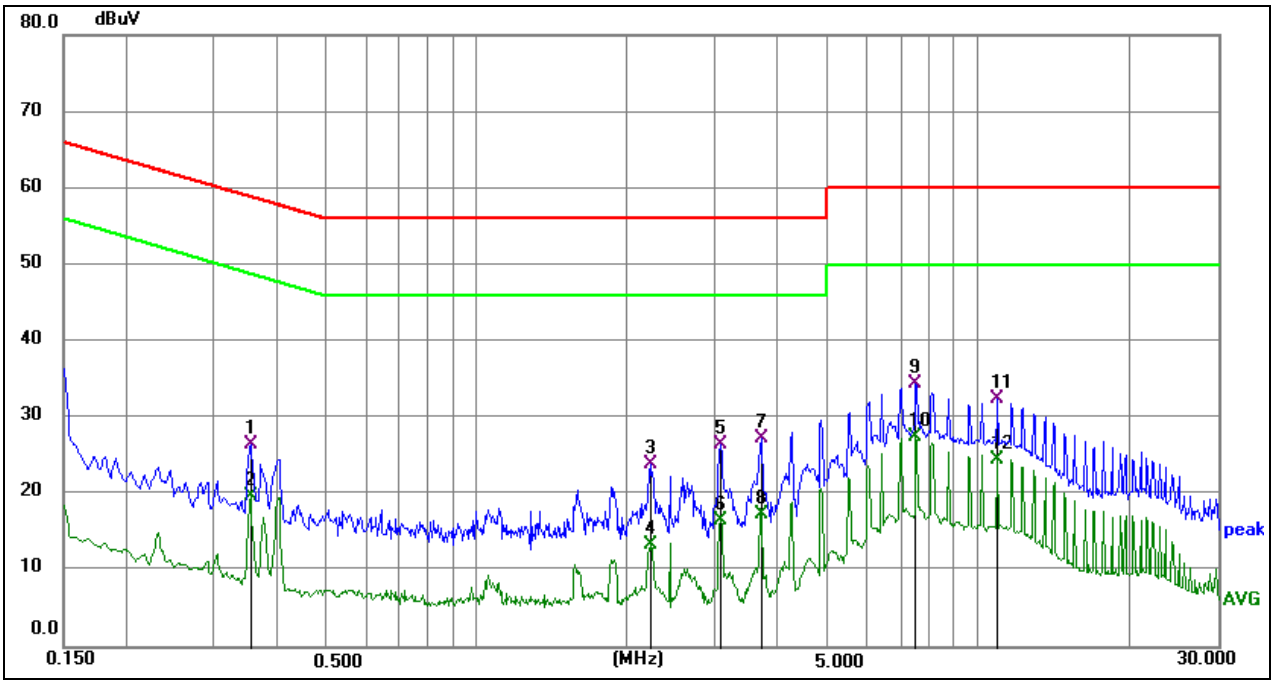
Phase: N	Mode: M01

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	23.37	9.87	33.24	63.09	-29.85	QP
2	0.2130	15.21	9.87	25.08	53.09	-28.01	AVG
3	0.2760	19.05	9.86	28.91	60.94	-32.03	QP
4	0.2760	9.87	9.86	19.73	50.94	-31.21	AVG
5	2.4539	13.29	9.99	23.28	56.00	-32.72	QP
6	2.4539	2.90	9.99	12.89	46.00	-33.11	AVG
7	4.4205	19.00	10.02	29.02	56.00	-26.98	QP
8	4.4205	7.20	10.02	17.22	46.00	-28.78	AVG
9	7.7640	24.30	10.51	34.81	60.00	-25.19	QP
10	7.7640	16.81	10.51	27.32	50.00	-22.68	AVG
11	11.2290	22.08	11.57	33.65	60.00	-26.35	QP
12	11.2290	15.00	11.57	26.57	50.00	-23.43	AVG



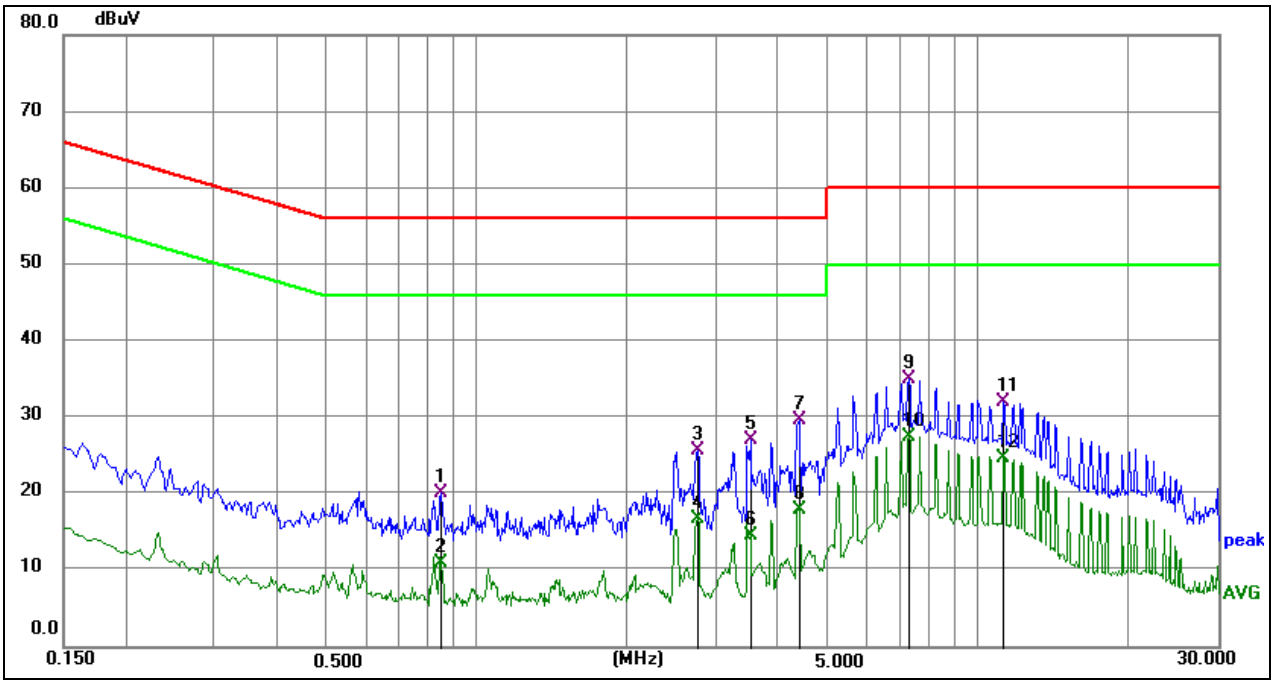
Phase: N	Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	26.45	9.89	36.34	65.06	-28.72	QP
2	0.1680	19.61	9.89	29.50	55.06	-25.56	AVG
3	0.3795	15.58	9.81	25.39	58.29	-32.90	QP
4	0.3795	8.09	9.81	17.90	48.29	-30.39	AVG
5	3.1110	15.95	9.99	25.94	56.00	-30.06	QP
6	3.1110	4.56	9.99	14.55	46.00	-31.45	AVG
7	4.5060	18.68	10.02	28.70	56.00	-27.30	QP
8	4.5060	8.07	10.02	18.09	46.00	-27.91	AVG
9	7.5660	24.59	10.42	35.01	60.00	-24.99	QP
10	7.5660	16.61	10.42	27.03	50.00	-22.97	AVG
11	10.9725	22.13	11.57	33.70	60.00	-26.30	QP
12	10.9725	14.72	11.57	26.29	50.00	-23.71	AVG



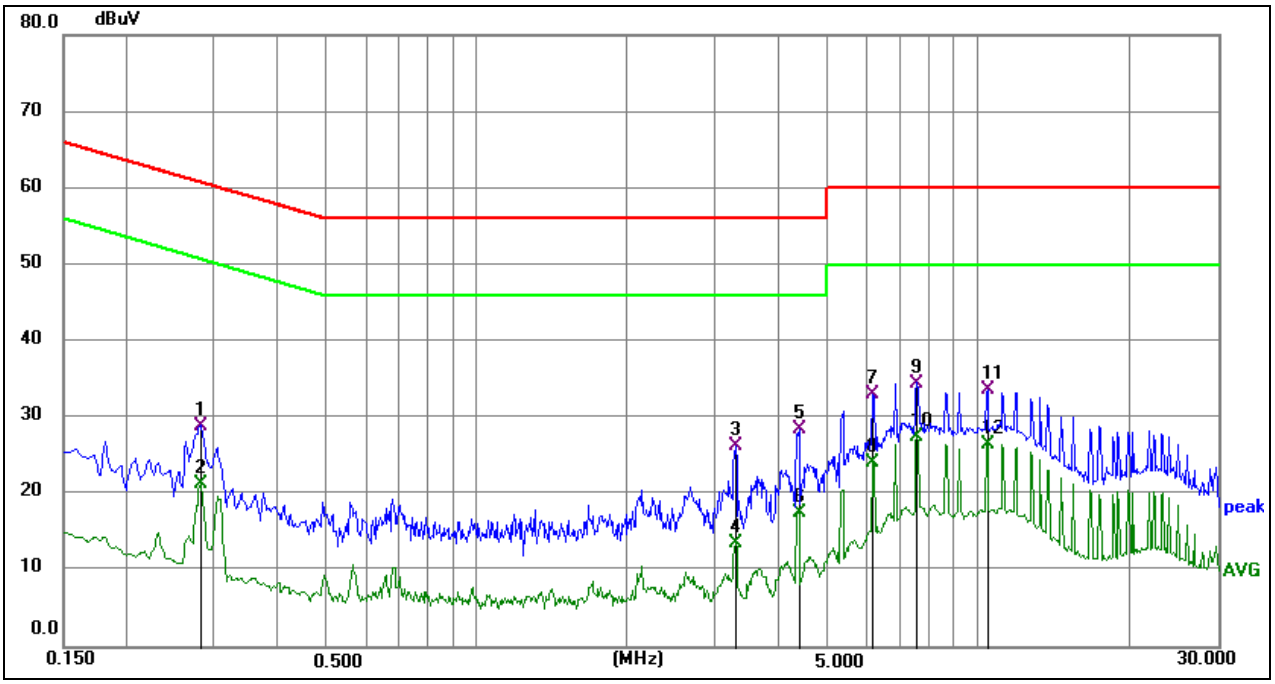
Phase: L1	Mode: M02

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3525	16.67	9.77	26.44	58.90	-32.46	QP
2	0.3525	10.02	9.77	19.79	48.90	-29.11	AVG
3	2.2155	14.06	9.83	23.89	56.00	-32.11	QP
4	2.2155	3.66	9.83	13.49	46.00	-32.51	AVG
5	3.0615	16.70	9.82	26.52	56.00	-29.48	QP
6	3.0615	6.74	9.82	16.56	46.00	-29.44	AVG
7	3.7095	17.41	9.81	27.22	56.00	-28.78	QP
8	3.7095	7.51	9.81	17.32	46.00	-28.68	AVG
9	7.4985	24.70	9.76	34.46	60.00	-25.54	QP
10	7.4985	17.76	9.76	27.52	50.00	-22.48	AVG
11	10.9140	22.68	9.81	32.49	60.00	-27.51	QP
12	10.9140	14.79	9.81	24.60	50.00	-25.40	AVG



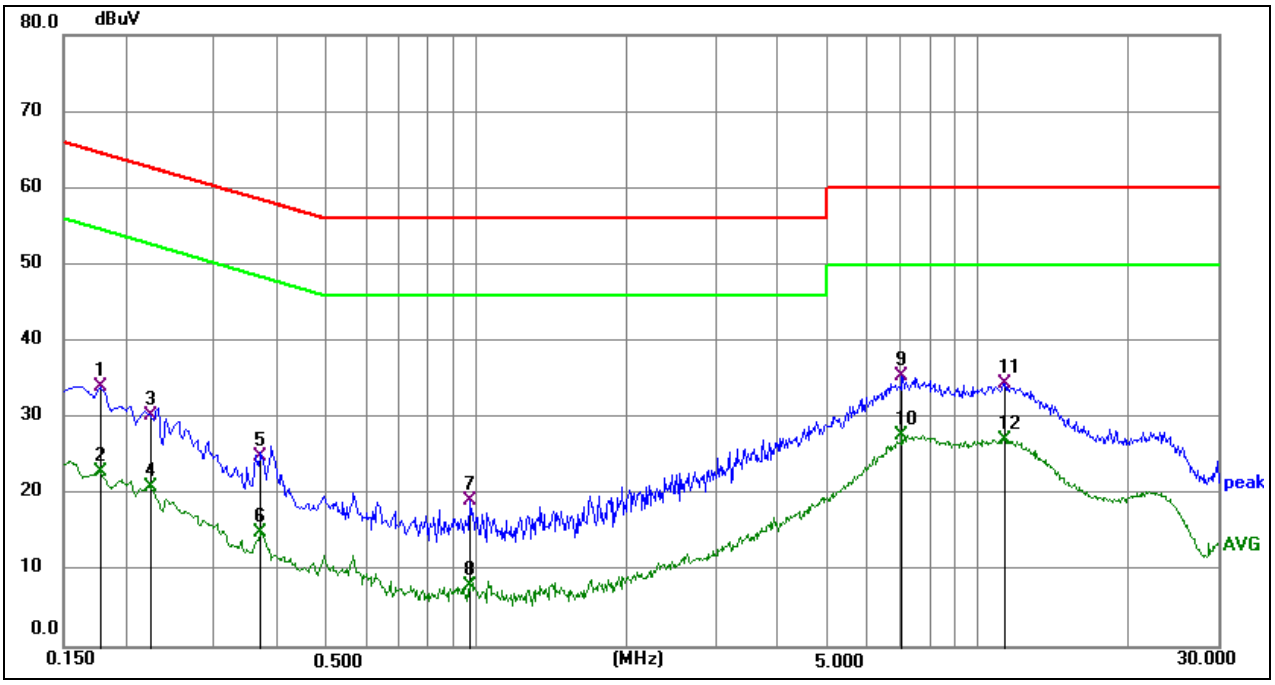
Phase: L1	Mode: M03

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.8520	10.32	9.81	20.13	56.00	-35.87	QP
2	0.8520	1.15	9.81	10.96	46.00	-35.04	AVG
3	2.7645	15.82	9.83	25.65	56.00	-30.35	QP
4	2.7645	6.94	9.83	16.77	46.00	-29.23	AVG
5	3.5160	17.22	9.82	27.04	56.00	-28.96	QP
6	3.5160	4.78	9.82	14.60	46.00	-31.40	AVG
7	4.3845	19.81	9.81	29.62	56.00	-26.38	QP
8	4.3845	8.19	9.81	18.00	46.00	-28.00	AVG
9	7.2780	25.25	9.77	35.02	60.00	-24.98	QP
10	7.2780	17.79	9.77	27.56	50.00	-22.44	AVG
11	11.2425	22.17	9.82	31.99	60.00	-28.01	QP
12	11.2425	14.84	9.82	24.66	50.00	-25.34	AVG



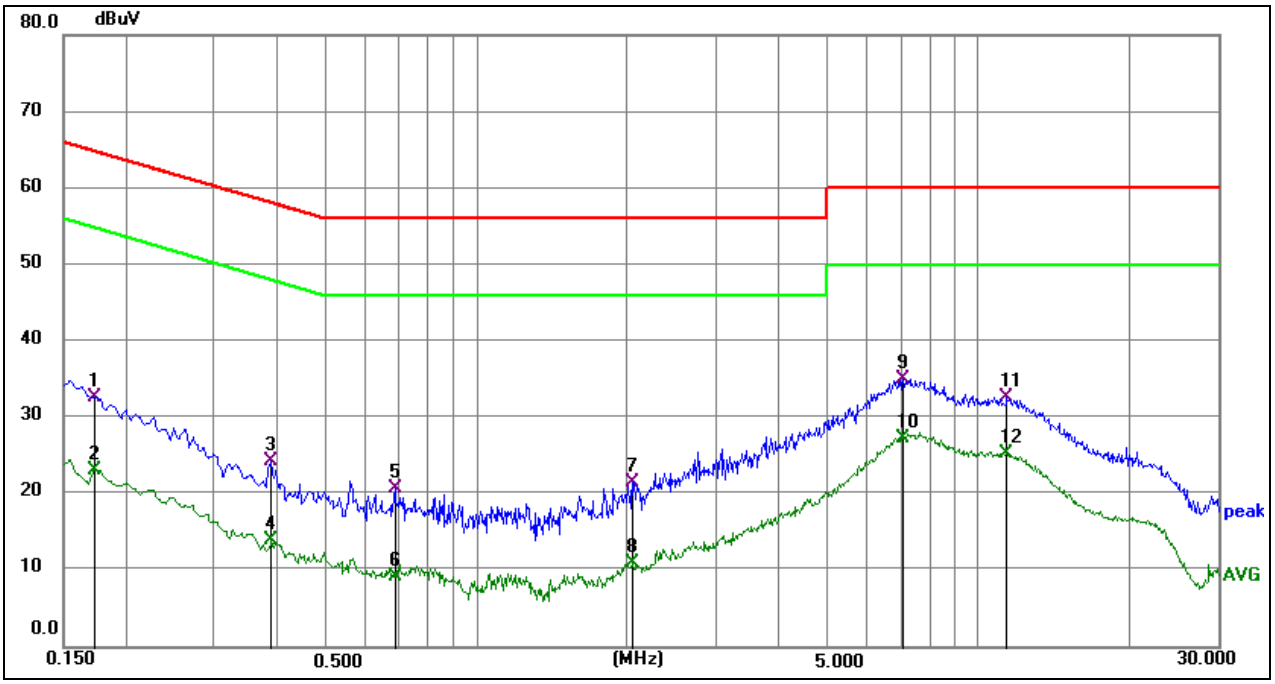
Phase: N	Mode: M03

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2805	19.12	9.86	28.98	60.80	-31.82	QP
2	0.2805	11.39	9.86	21.25	50.80	-29.55	AVG
3	3.2820	16.24	9.99	26.23	56.00	-29.77	QP
4	3.2820	3.60	9.99	13.59	46.00	-32.41	AVG
5	4.3935	18.38	10.02	28.40	56.00	-27.60	QP
6	4.3935	7.58	10.02	17.60	46.00	-28.40	AVG
7	6.1530	23.00	10.11	33.11	60.00	-26.89	QP
8	6.1530	13.93	10.11	24.04	50.00	-25.96	AVG
9	7.5525	24.13	10.41	34.54	60.00	-25.46	QP
10	7.5525	17.14	10.41	27.55	50.00	-22.45	AVG
11	10.4235	21.99	11.56	33.55	60.00	-26.45	QP
12	10.4235	14.89	11.56	26.45	50.00	-23.55	AVG



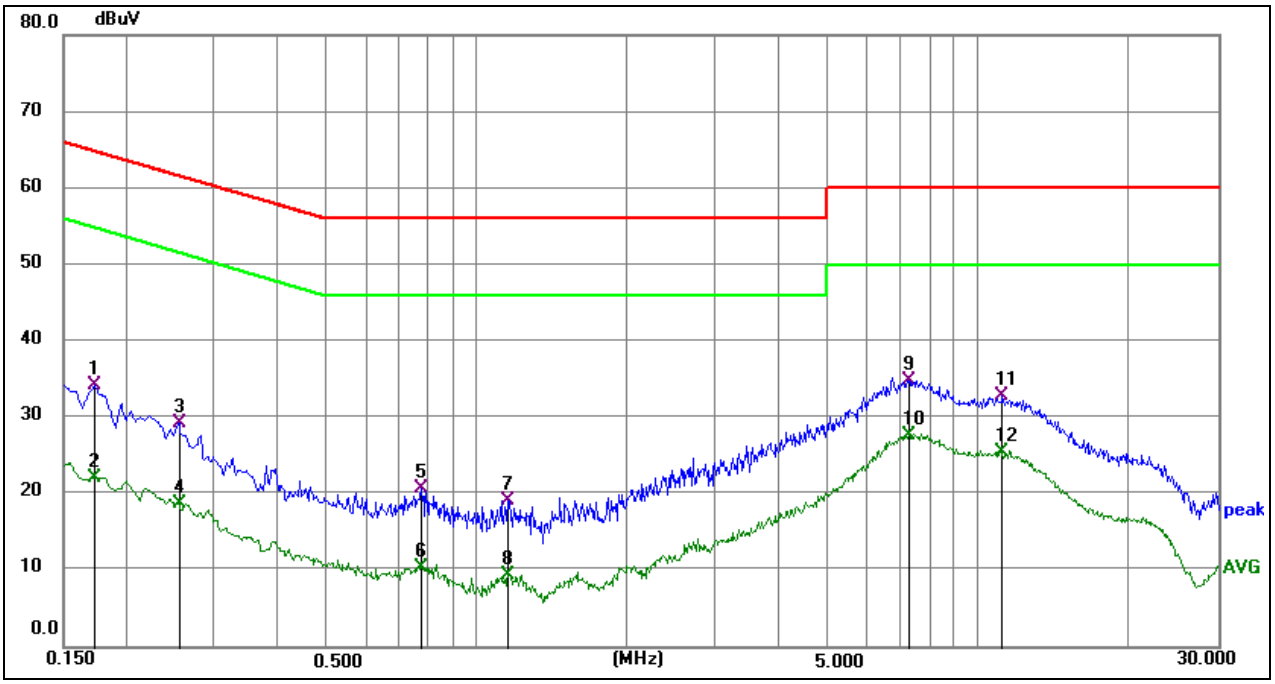
Phase: N	Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1770	24.12	9.89	34.01	64.63	-30.62	QP
2	0.1770	13.04	9.89	22.93	54.63	-31.70	AVG
3	0.2231	20.38	9.87	30.25	62.70	-32.45	QP
4	0.2231	10.99	9.87	20.86	52.70	-31.84	AVG
5	0.3692	15.20	9.81	25.01	58.52	-33.51	QP
6	0.3692	5.14	9.81	14.95	48.52	-33.57	AVG
7	0.9735	9.27	9.94	19.21	56.00	-36.79	QP
8	0.9735	-1.95	9.94	7.99	46.00	-38.01	AVG
9	7.0575	25.25	10.18	35.43	60.00	-24.57	QP
10	7.0575	17.57	10.18	27.75	50.00	-22.25	AVG
11	11.2830	22.93	11.58	34.51	60.00	-25.49	QP
12	11.2830	15.45	11.58	27.03	50.00	-22.97	AVG



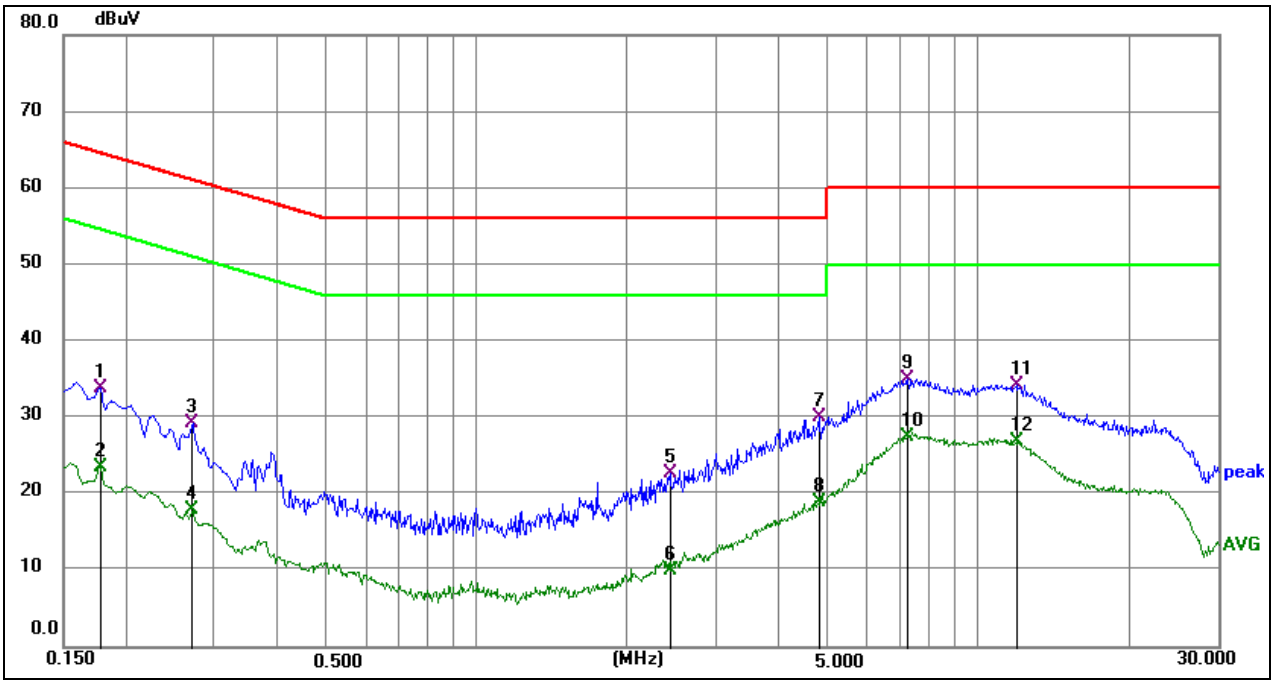
Phase: L1	Mode: M04

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1731	22.92	9.81	32.73	64.81	-32.08	QP
2	0.1731	13.37	9.81	23.18	54.81	-31.63	AVG
3	0.3893	14.60	9.79	24.39	58.08	-33.69	QP
4	0.3893	4.13	9.79	13.92	48.08	-34.16	AVG
5	0.6863	10.94	9.85	20.79	56.00	-35.21	QP
6	0.6863	-0.57	9.85	9.28	46.00	-36.72	AVG
7	2.0441	11.69	9.83	21.52	56.00	-34.48	QP
8	2.0441	1.23	9.83	11.06	46.00	-34.94	AVG
9	7.0622	25.35	9.77	35.12	60.00	-24.88	QP
10	7.0622	17.48	9.77	27.25	50.00	-22.75	AVG
11	11.3771	22.78	9.84	32.62	60.00	-27.38	QP
12	11.3771	15.46	9.84	25.30	50.00	-24.70	AVG



Phase: L1	Mode: M05

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1724	24.39	9.81	34.20	64.84	-30.64	QP
2	0.1724	12.41	9.81	22.22	54.84	-32.62	AVG
3	0.2535	19.33	9.87	29.20	61.64	-32.44	QP
4	0.2535	8.88	9.87	18.75	51.64	-32.89	AVG
5	0.7754	10.93	9.82	20.75	56.00	-35.25	QP
6	0.7754	0.51	9.82	10.33	46.00	-35.67	AVG
7	1.1580	9.30	9.82	19.12	56.00	-36.88	QP
8	1.1580	-0.39	9.82	9.43	46.00	-36.57	AVG
9	7.2644	25.11	9.77	34.88	60.00	-25.12	QP
10	7.2644	17.91	9.77	27.68	50.00	-22.32	AVG
11	11.1615	22.94	9.82	32.76	60.00	-27.24	QP
12	11.1615	15.65	9.82	25.47	50.00	-24.53	AVG



Phase: N	Mode: M05

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1770	24.04	9.89	33.93	64.63	-30.70	QP
2	0.1770	13.64	9.89	23.53	54.63	-31.10	AVG
3	0.2714	19.51	9.86	29.37	61.07	-31.70	QP
4	0.2714	8.08	9.86	17.94	51.07	-33.13	AVG
5	2.4224	12.82	9.99	22.81	56.00	-33.19	QP
6	2.4224	0.13	9.99	10.12	46.00	-35.88	AVG
7	4.7985	20.00	10.04	30.04	56.00	-25.96	QP
8	4.7985	8.92	10.04	18.96	46.00	-27.04	AVG
9	7.2465	24.80	10.26	35.06	60.00	-24.94	QP
10	7.2465	17.14	10.26	27.40	50.00	-22.60	AVG
11	11.9040	22.72	11.59	34.31	60.00	-25.69	QP
12	11.9040	15.29	11.59	26.88	50.00	-23.12	AVG

Remark: Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
Margin = Result - Limit

7.2. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Below 1 GHz

CFR 47 FCC Part 15 Subpart B		
Frequency (MHz)	Class A	Class B
	Field strength (dBuV/m) (at 3 m)	Field strength (dBuV/m) (at 3 m)
30 - 88	49.5	40
88 - 216	53.9	43.5
216 - 960	56.9	46
Above 960	60	54

Test Frequency Range of Radiated Disturbance Measurement

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

NOTE:

(1) The limit for radiated test was performed according to FCC Part 15, Subpart B;
(2) The tighter limit applies at the band edges;
(3) Emission level (dBuV/m) = 20log Emission level (uV/m),
3m Emission level = 10 m Emission level + 20log(10 m/3 m);

TEST PROCEDURE

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak and QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.4-2014.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp was used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

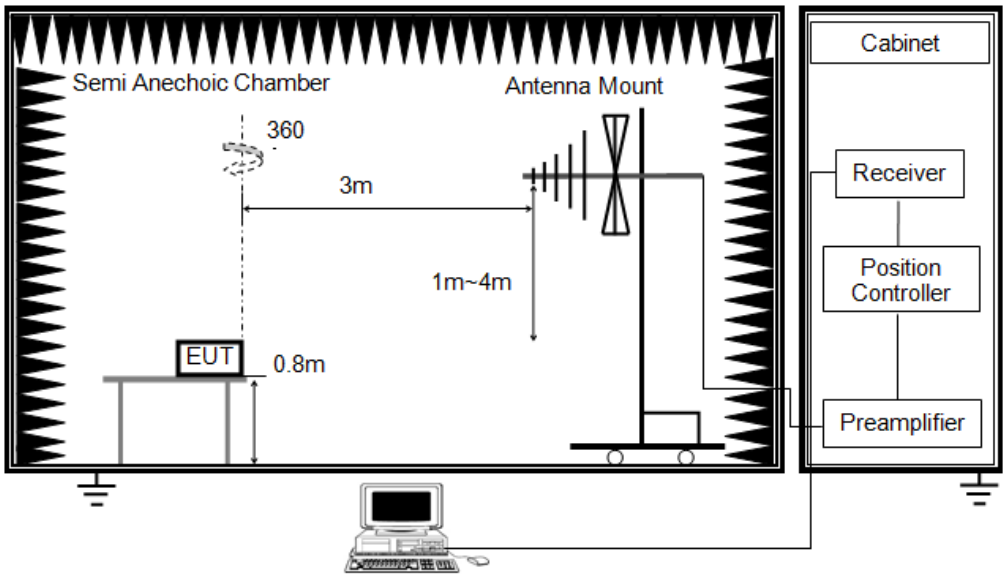
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

6. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.

7. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

8. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

TEST SETUP



TEST ENVIRONMENT

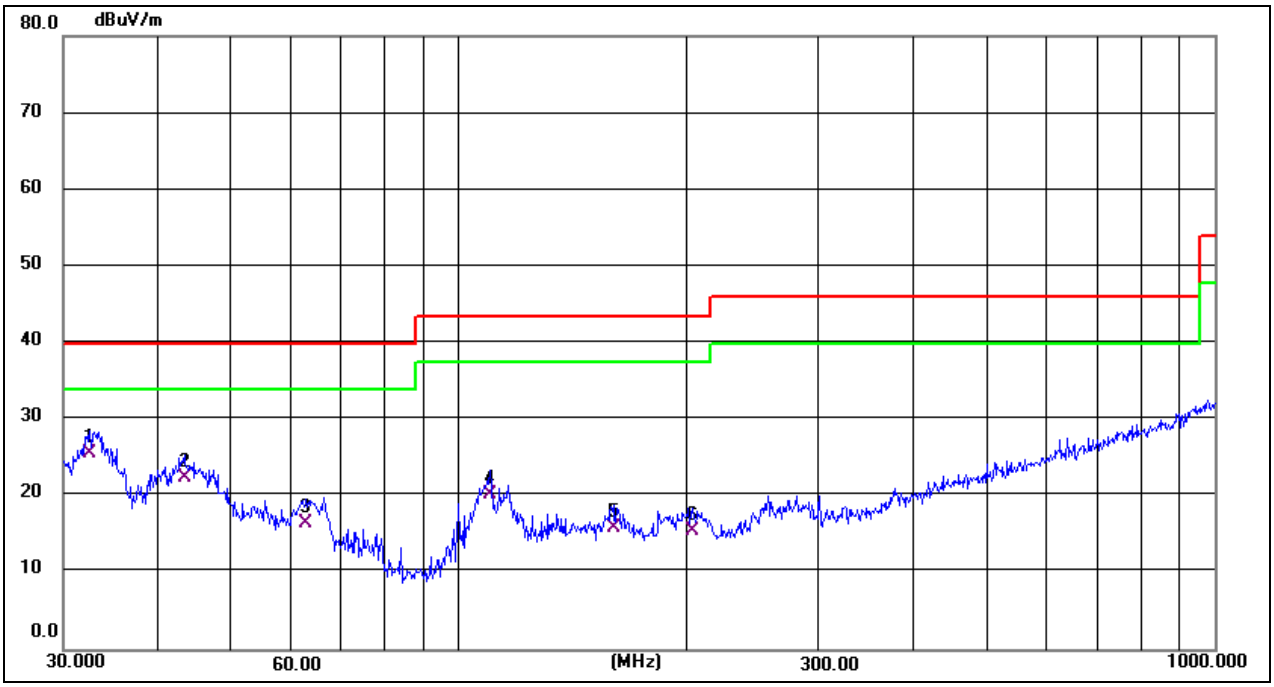
Temperature	22.8℃	Relative Humidity	53%
Atmosphere Pressure	101kPa		

TEST MODE

Pre-test Mode:	M01 ~ M05
Final Test Mode:	M01, M02, M03, M04, M05

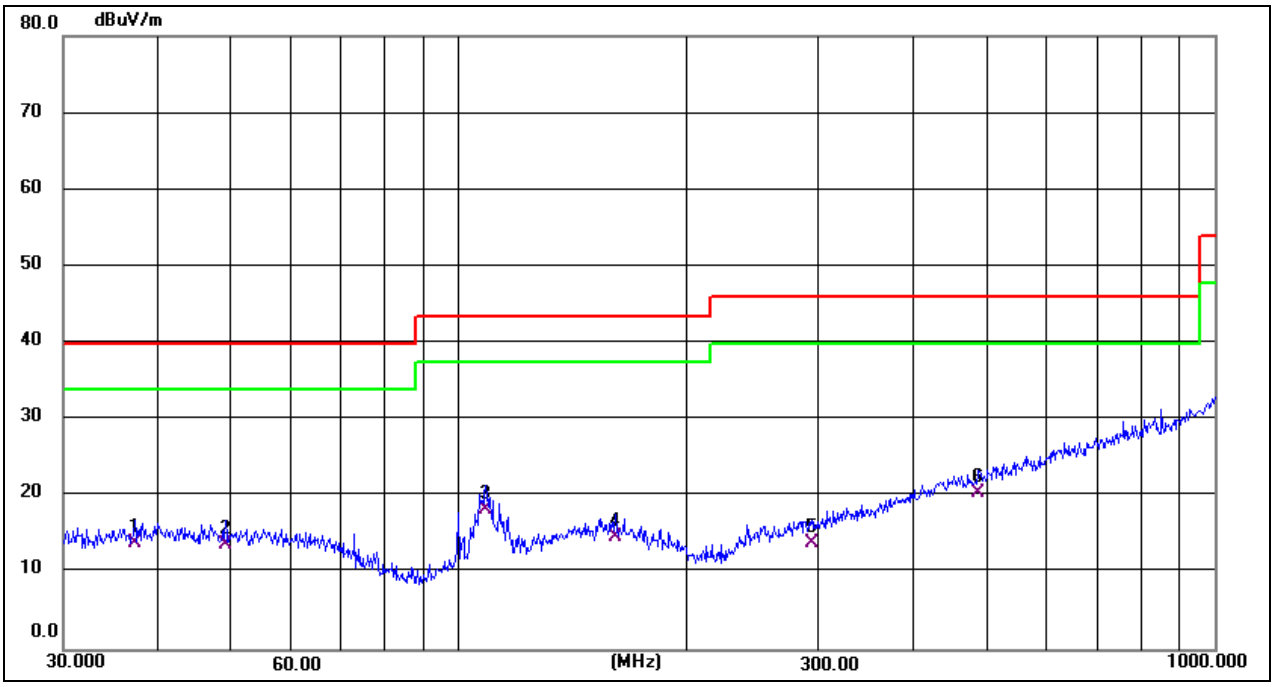
Note: All test modes had been tested, but only the worst data recorded in the report.

TEST RESULTS



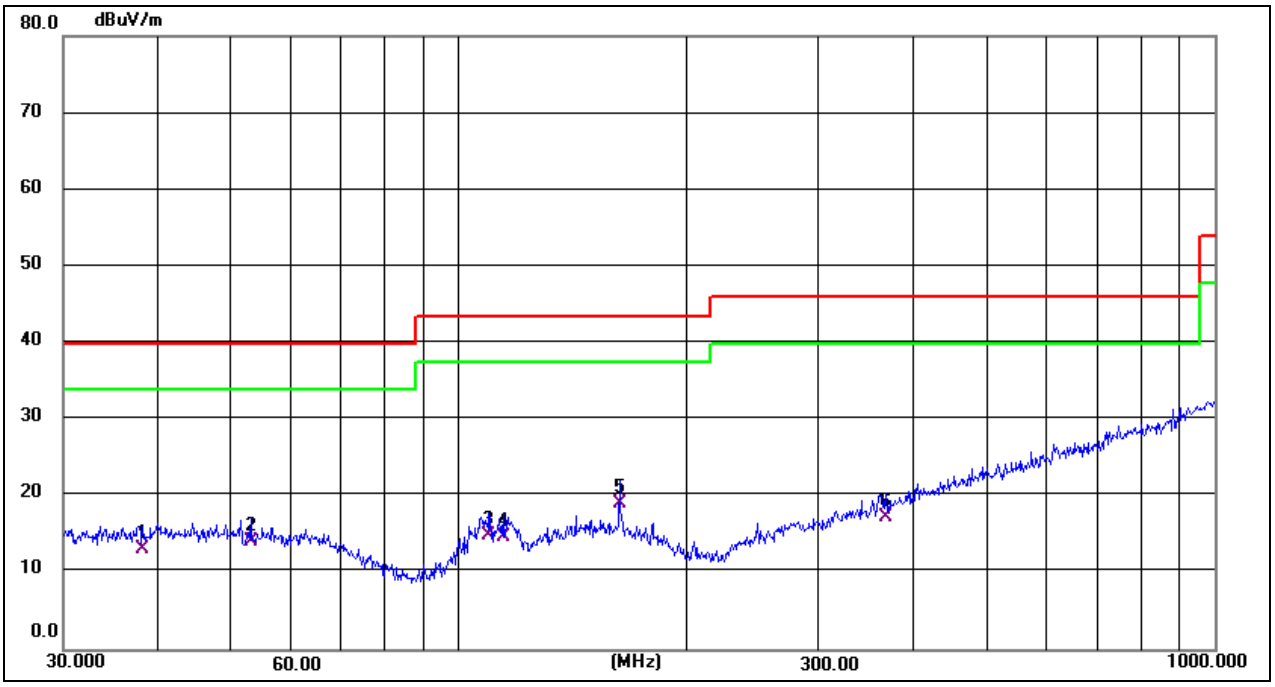
Antenna:Vertical	Mode: M01

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	32.5198	37.82	-12.22	25.60	40.00	-14.40	QP
2	43.3534	34.78	-12.28	22.50	40.00	-17.50	QP
3	62.8708	29.97	-13.37	16.60	40.00	-23.40	QP
4	110.1816	35.63	-15.33	20.30	43.50	-23.20	QP
5	160.3456	28.23	-12.33	15.90	43.50	-27.60	QP
6	203.5228	31.71	-16.21	15.50	43.50	-28.00	QP



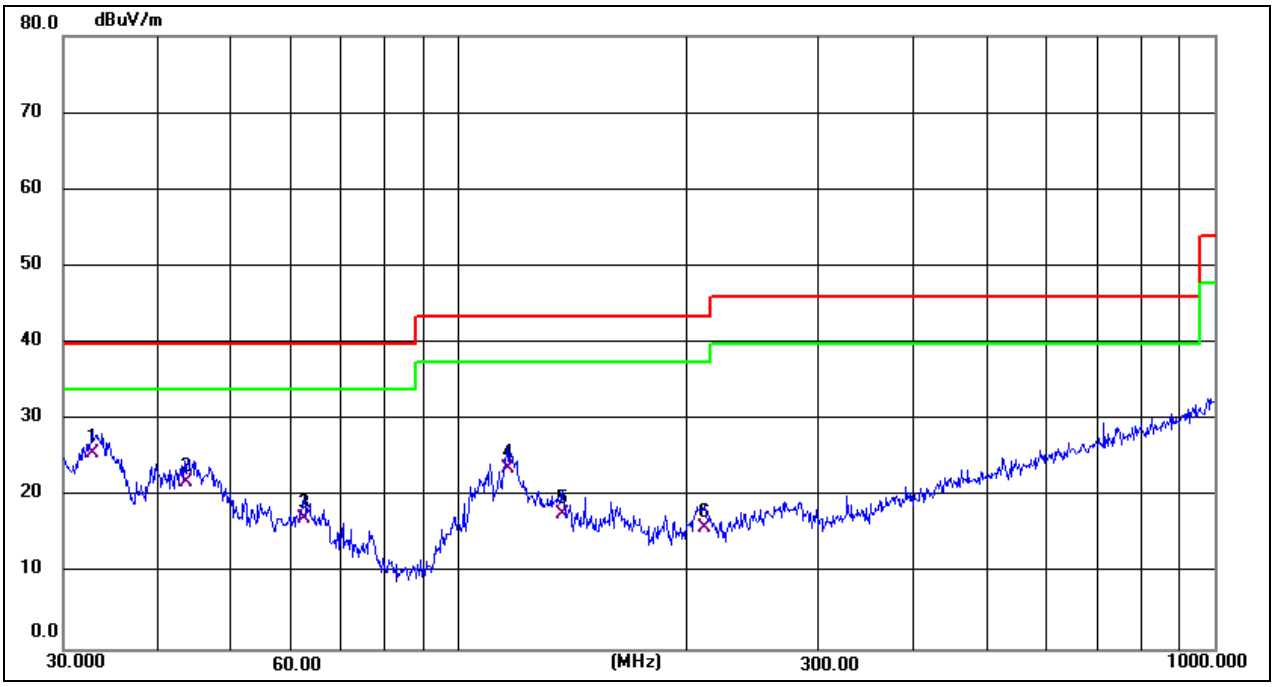
Antenna:Horizontal	Mode: M01

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.2855	26.18	-12.28	13.90	40.00	-26.10	QP
2	49.1865	26.34	-12.54	13.80	40.00	-26.20	QP
3 *	108.6470	33.76	-15.36	18.40	43.50	-25.10	QP
4	161.4742	27.13	-12.33	14.80	43.50	-28.70	QP
5	293.0842	26.31	-12.41	13.90	46.00	-32.10	QP
6	487.3151	26.88	-6.48	20.40	46.00	-25.60	QP



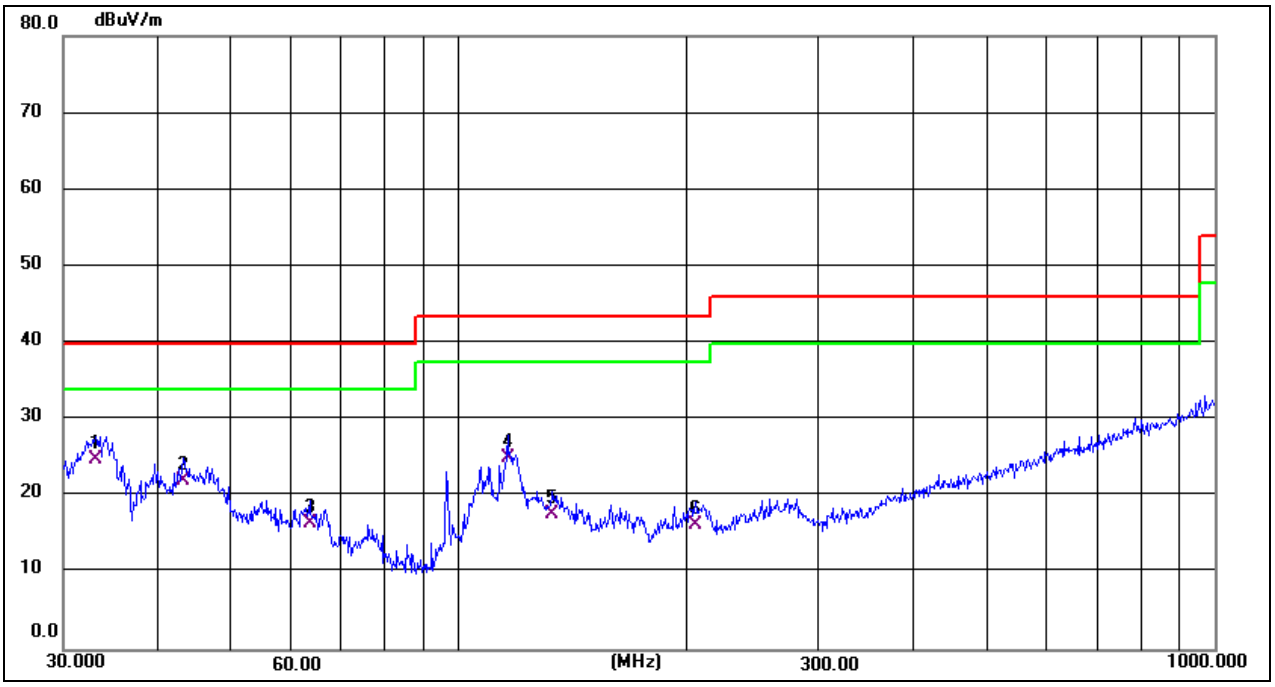
Antenna:Horizontal	Mode: M02

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.2120	25.39	-12.19	13.20	40.00	-26.80	QP
2	53.1313	26.74	-12.54	14.20	40.00	-25.80	QP
3	109.7960	30.23	-15.33	14.90	43.50	-28.60	QP
4	114.5146	29.74	-15.04	14.70	43.50	-28.80	QP
5 *	163.1818	31.45	-12.35	19.10	43.50	-24.40	QP
6	366.8231	27.49	-10.09	17.40	46.00	-28.60	QP



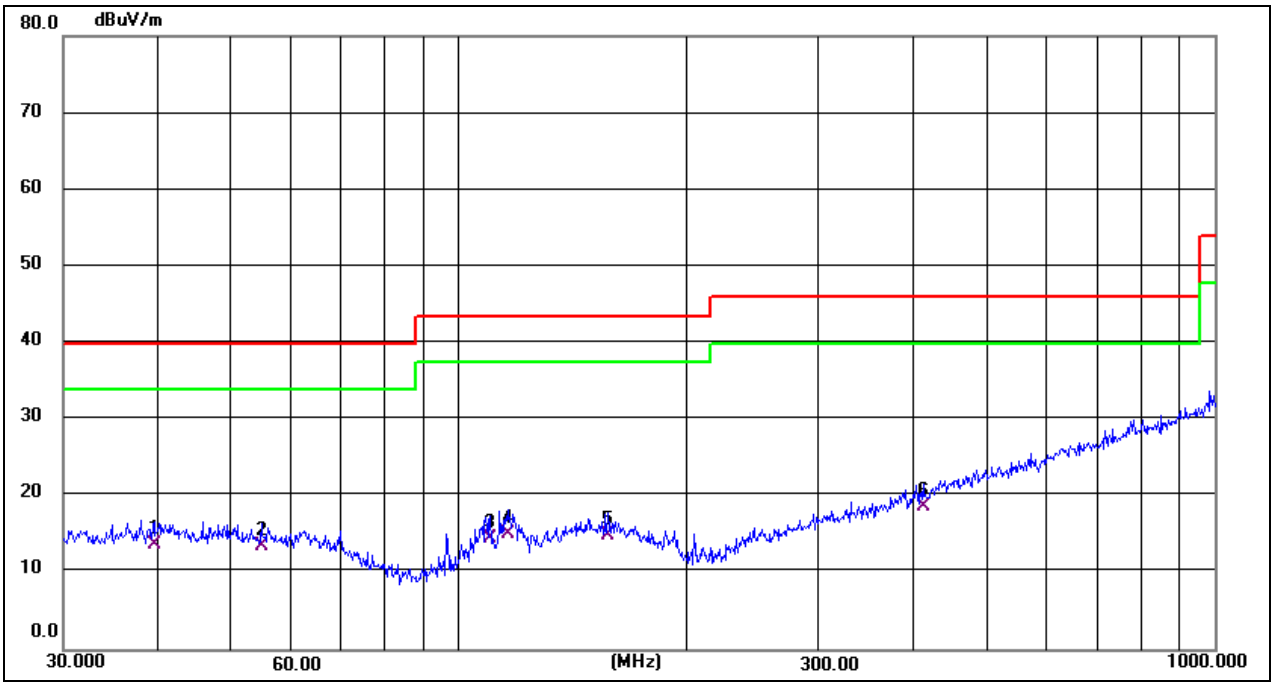
Antenna:Vertical	Mode: M02

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	32.7486	37.80	-12.20	25.60	40.00	-14.40	QP
2	43.8119	34.24	-12.34	21.90	40.00	-18.10	QP
3	62.4314	30.41	-13.31	17.10	40.00	-22.90	QP
4	116.1321	38.66	-14.96	23.70	43.50	-19.80	QP
5	137.4202	30.75	-12.95	17.80	43.50	-25.70	QP
6	211.5265	32.11	-16.21	15.90	43.50	-27.60	QP



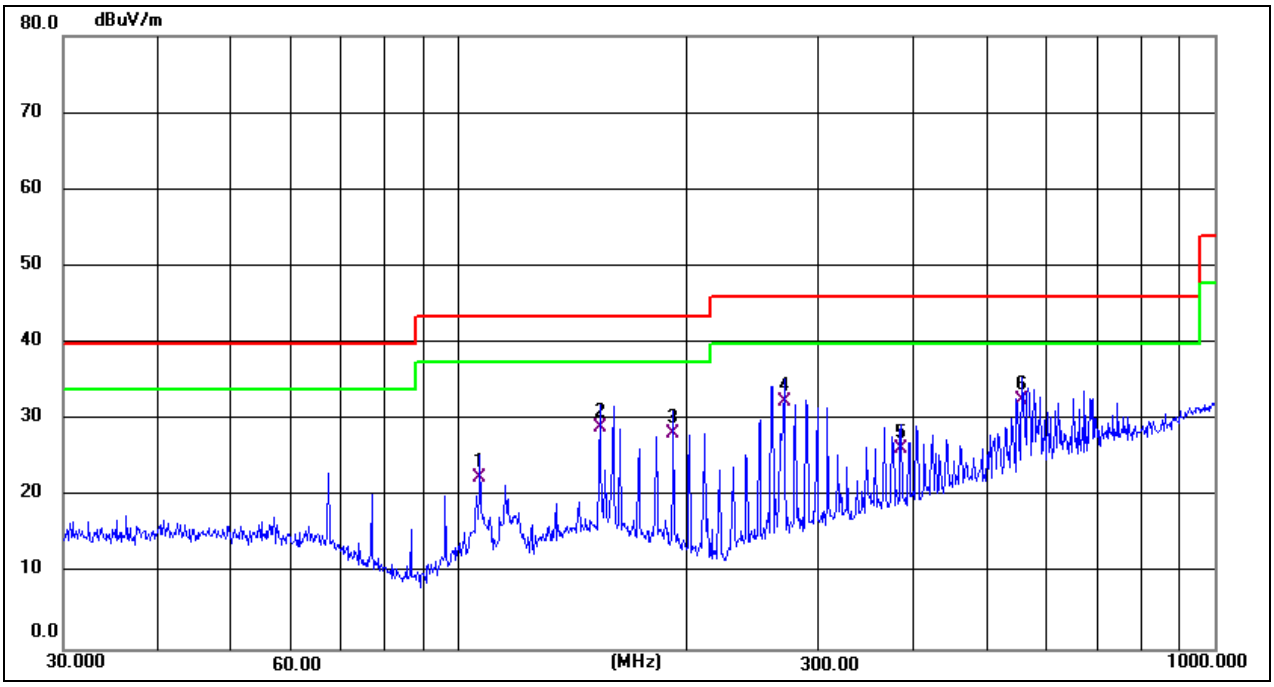
Antenna:Vertical	Mode: M03

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	33.0950	37.08	-12.18	24.90	40.00	-15.10	QP
2	43.2017	34.35	-12.25	22.10	40.00	-17.90	QP
3	63.5356	29.94	-13.44	16.50	40.00	-23.50	QP
4	116.1321	40.06	-14.96	25.10	43.50	-18.40	QP
5	133.1511	31.18	-13.48	17.70	43.50	-25.80	QP
6	205.6751	32.53	-16.23	16.30	43.50	-27.20	QP



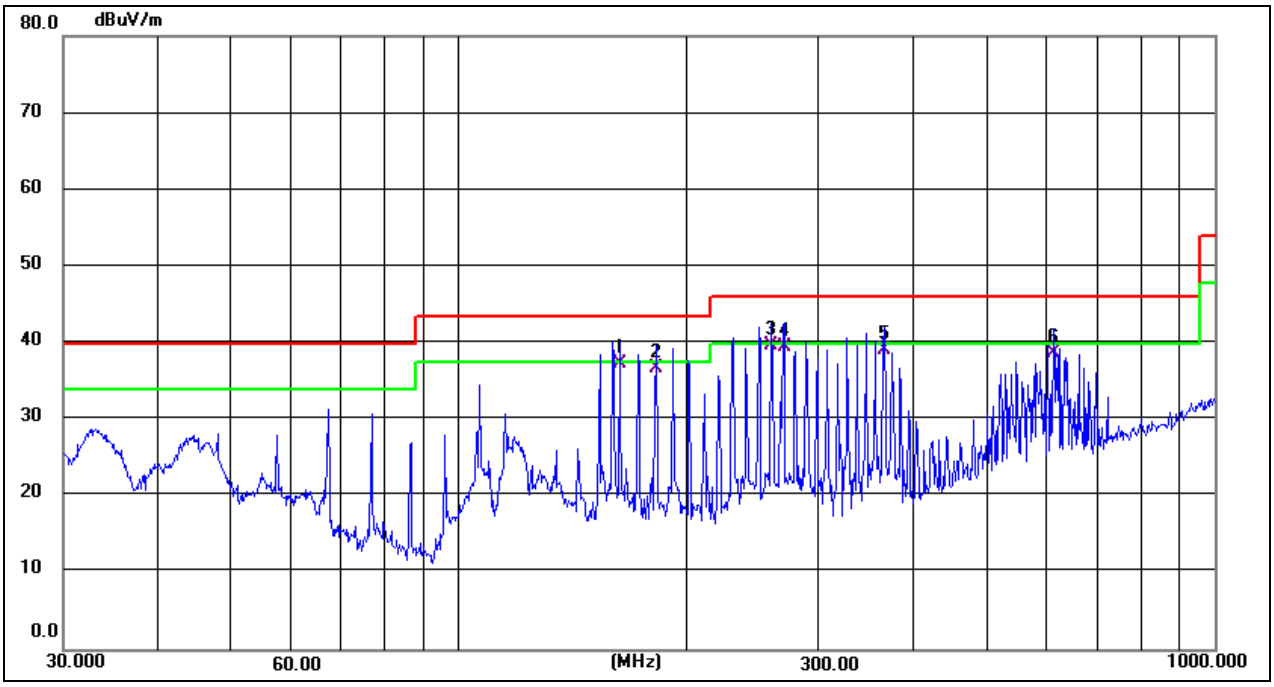
Antenna:Horizontal	Mode: M03

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	39.5757	25.95	-12.25	13.70	40.00	-26.30	QP
2	54.8348	26.11	-12.61	13.50	40.00	-26.50	QP
3	110.1816	29.93	-15.33	14.60	43.50	-28.90	QP
4	116.1321	30.16	-14.96	15.20	43.50	-28.30	QP
5	157.5588	27.14	-12.24	14.90	43.50	-28.60	QP
6	411.8240	27.37	-8.67	18.70	46.00	-27.30	QP



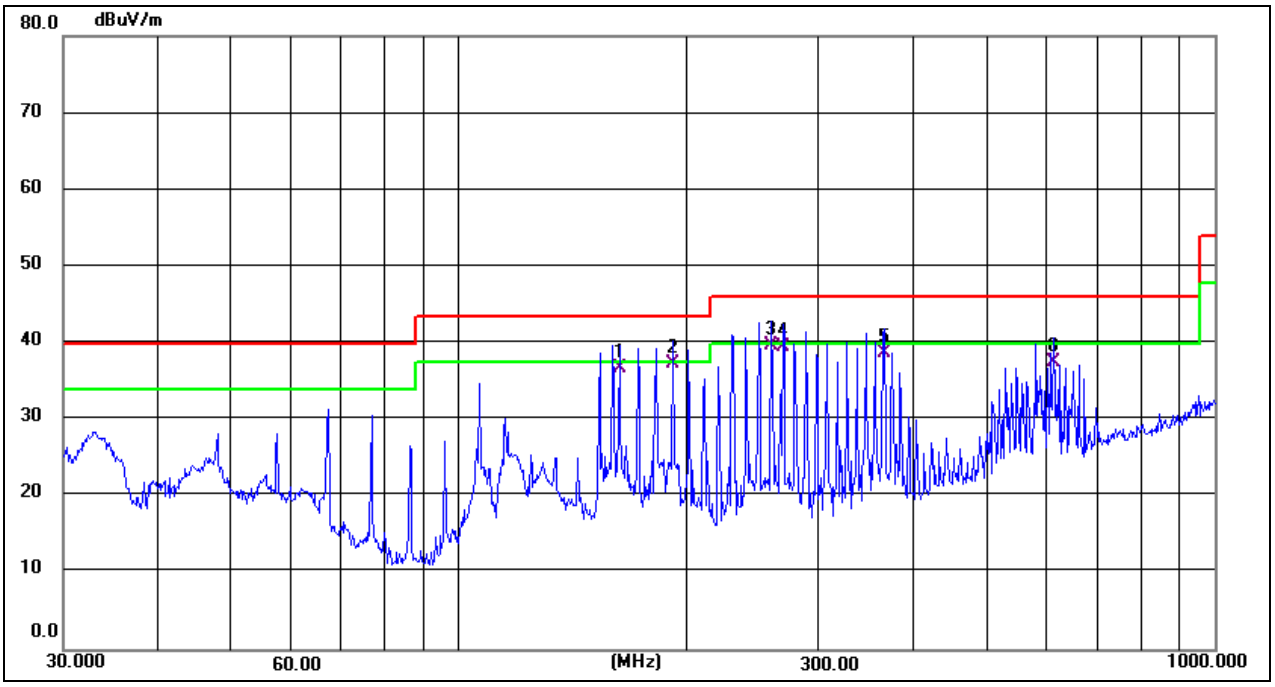
Antenna:Horizontal	Mode: M04

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	106.7587	38.04	-15.64	22.40	43.50	-21.10	QP
2	153.7385	41.20	-12.10	29.10	43.50	-14.40	QP
3	192.4186	43.17	-14.97	28.20	43.50	-15.30	QP
4	269.4284	45.56	-13.26	32.30	46.00	-13.70	QP
5	385.2805	35.68	-9.38	26.30	46.00	-19.70	QP
6 *	556.7744	37.68	-5.18	32.50	46.00	-13.50	QP



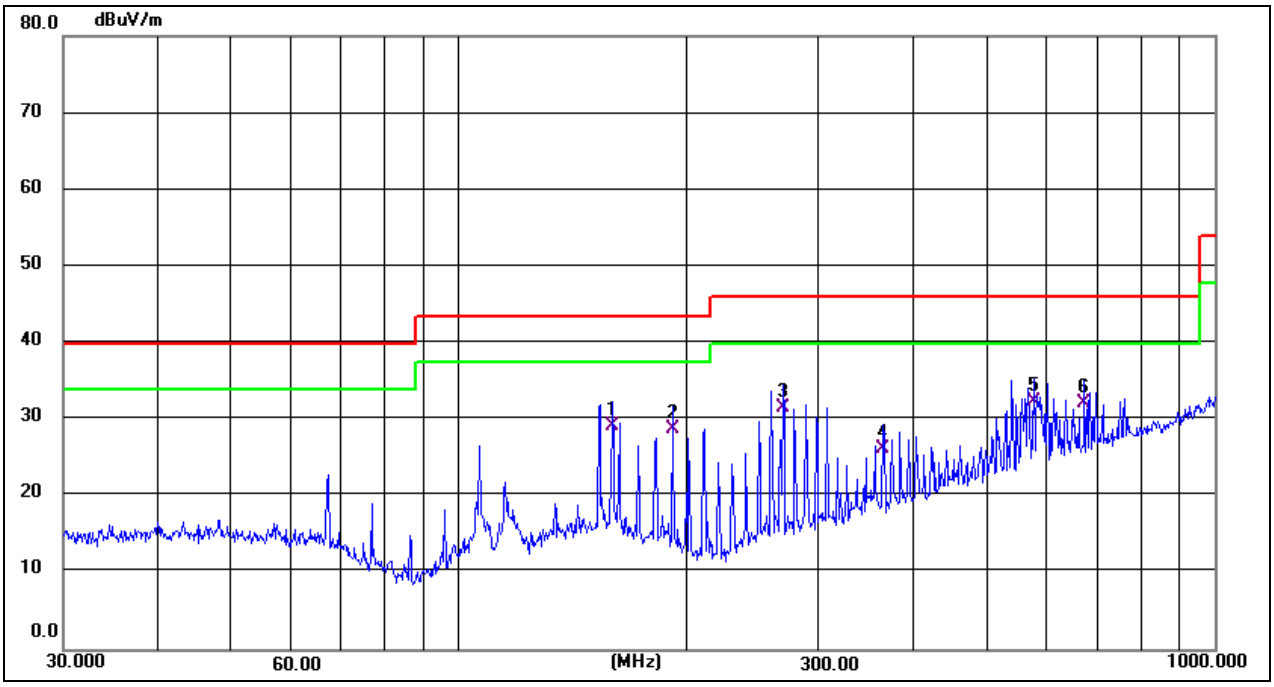
Antenna:Vertical	Mode: M04

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	163.1817	49.65	-12.35	37.30	43.50	-6.20	QP
2	182.5592	50.80	-14.10	36.70	43.50	-6.80	QP
3	259.2337	53.26	-13.56	39.70	46.00	-6.30	QP
4	269.4282	52.86	-13.26	39.60	46.00	-6.40	QP
5	365.5390	49.23	-10.13	39.10	46.00	-6.90	QP
6	612.0641	42.37	-3.57	38.80	46.00	-7.20	QP



Antenna:Vertical	Mode: M05

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	163.1817	49.05	-12.35	36.70	43.50	-6.80	QP
2 *	191.7450	52.21	-14.91	37.30	43.50	-6.20	QP
3	259.2337	53.36	-13.56	39.80	46.00	-6.20	QP
4	268.4852	52.81	-13.31	39.50	46.00	-6.50	QP
5	365.5390	48.93	-10.13	38.80	46.00	-7.20	QP
6	612.0641	41.17	-3.57	37.60	46.00	-8.40	QP



Antenna:Horizontal	Mode: M05

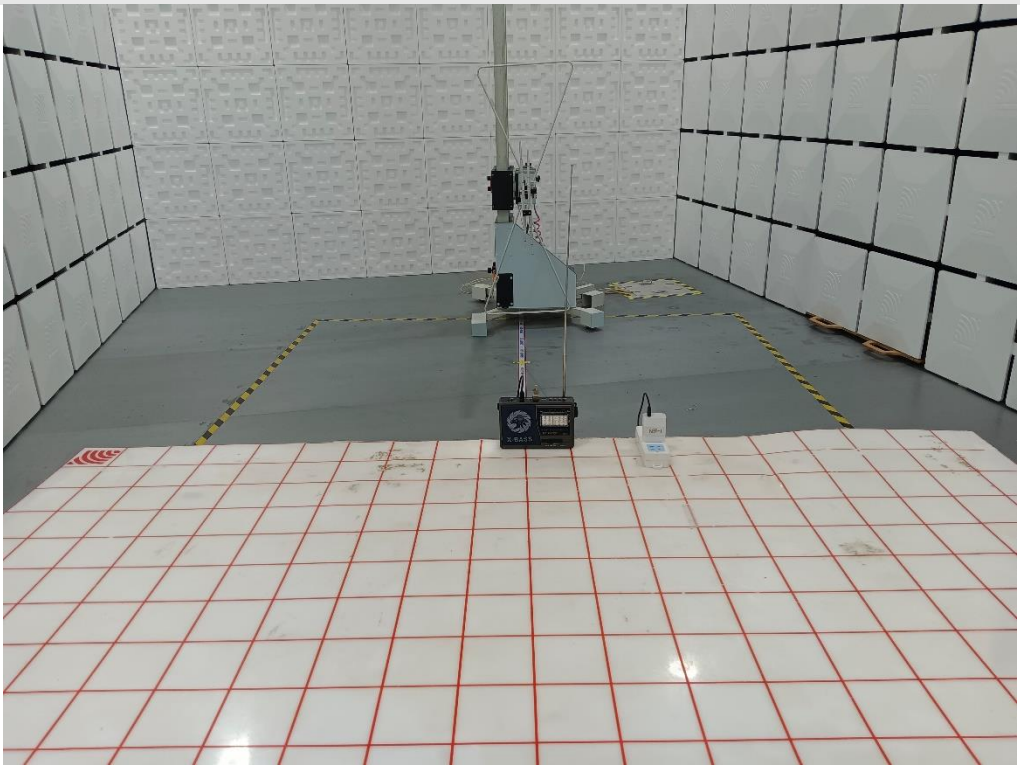
No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	159.7844	41.61	-12.31	29.30	43.50	-14.20	QP
2	191.7450	43.71	-14.91	28.80	43.50	-14.70	QP
3	268.4853	44.81	-13.31	31.50	46.00	-14.50	QP
4	364.2595	36.49	-10.19	26.30	46.00	-19.70	QP
5 *	576.6443	37.16	-4.76	32.40	46.00	-13.60	QP
6	672.8444	34.96	-2.76	32.20	46.00	-13.80	QP

Remark: 1. Result = Reading +Correct (Amplifier Factor + Cable Loss + Antenna Factor)
2. Margin = Result - Limit

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

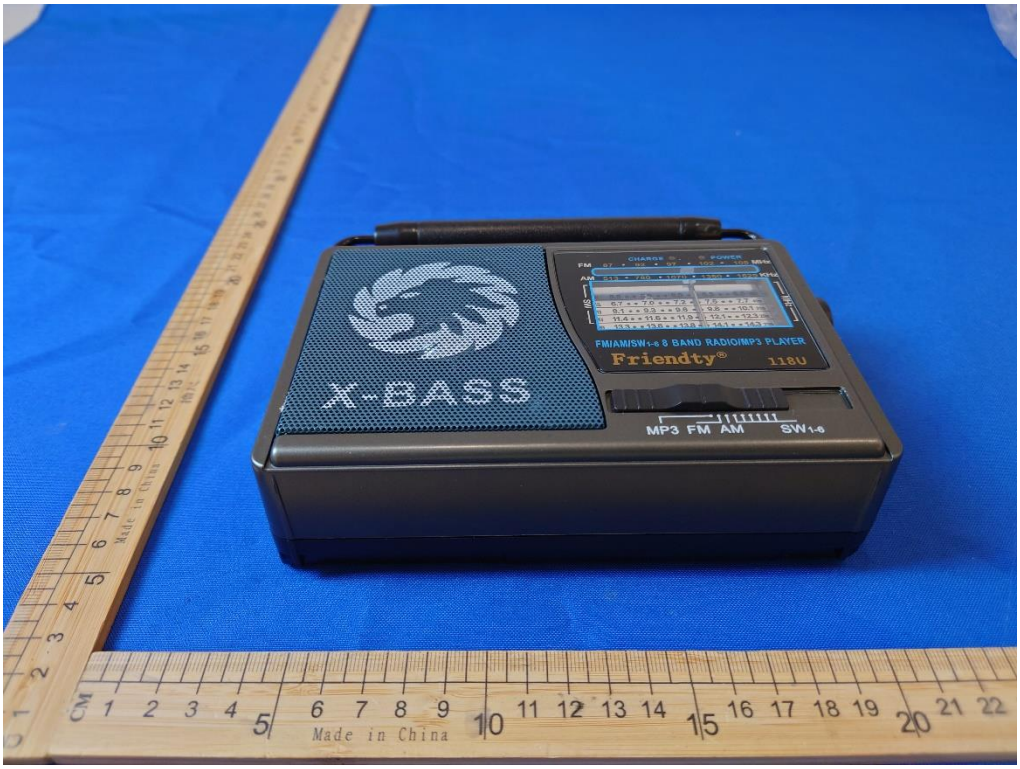
Conducted emissions

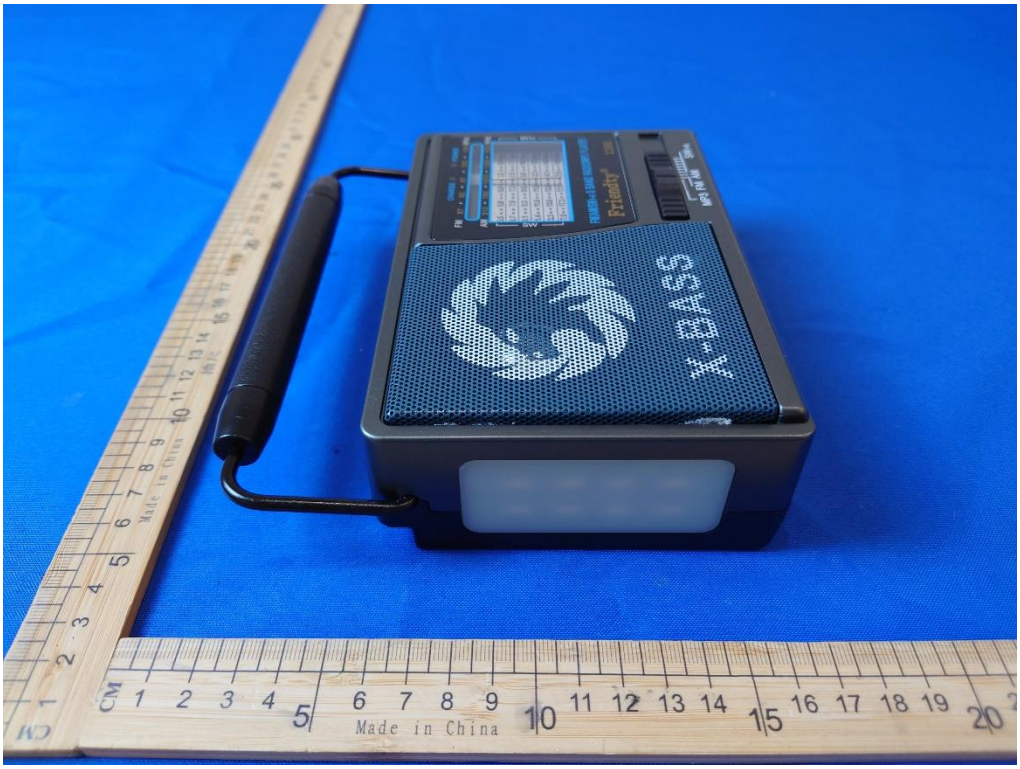
Radiated emissions below 1GHz



APPENDIX: PHOTOGRAPHS OF THE EUT

External

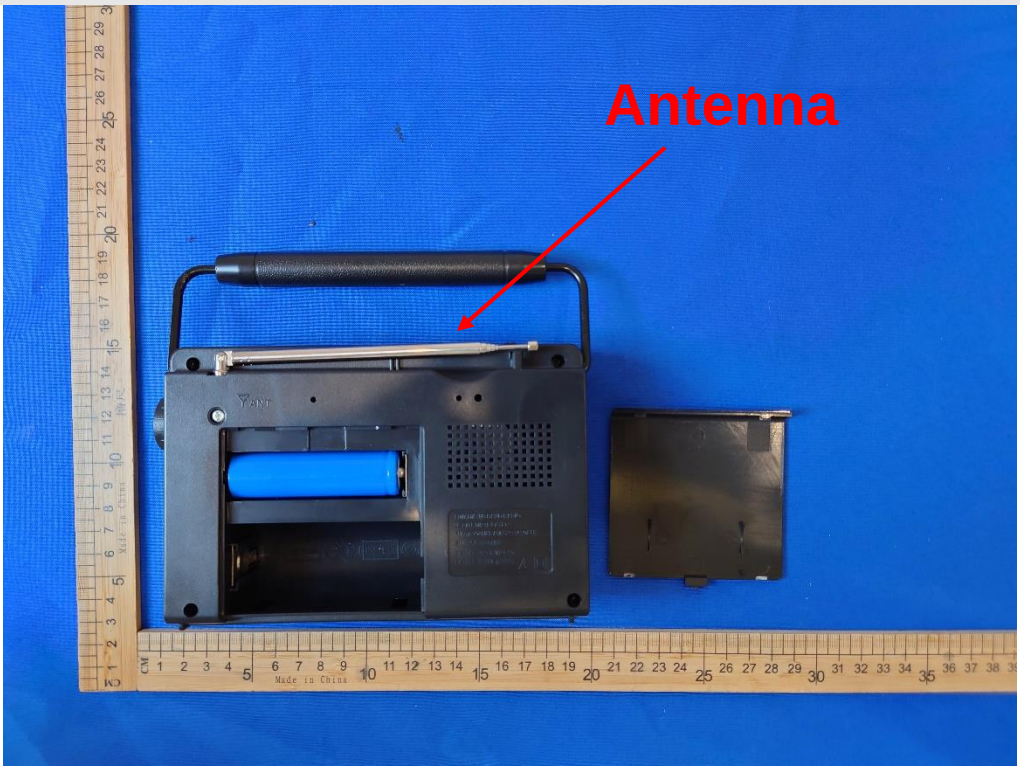

X-BASS
FM/AM/SW1-6 8 BAND RADIO/MP3 PLAYER
Friendty®
118U
MP3 FM AM SW1-6
Made in China

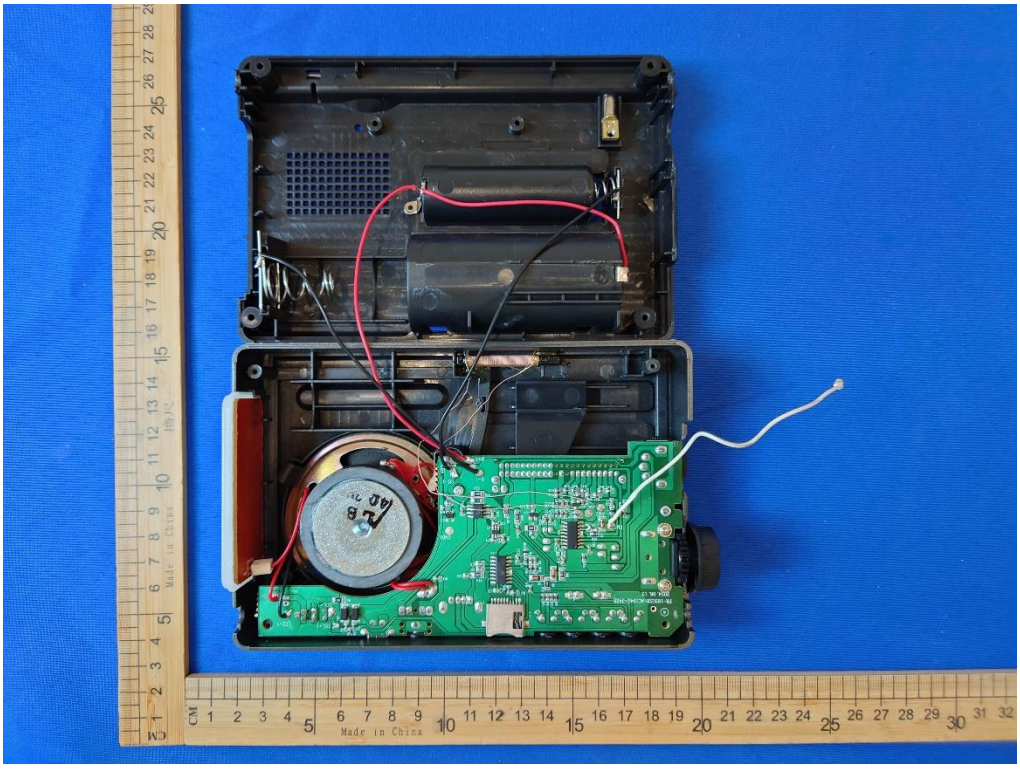

X-BASS
Friendty
Made in China

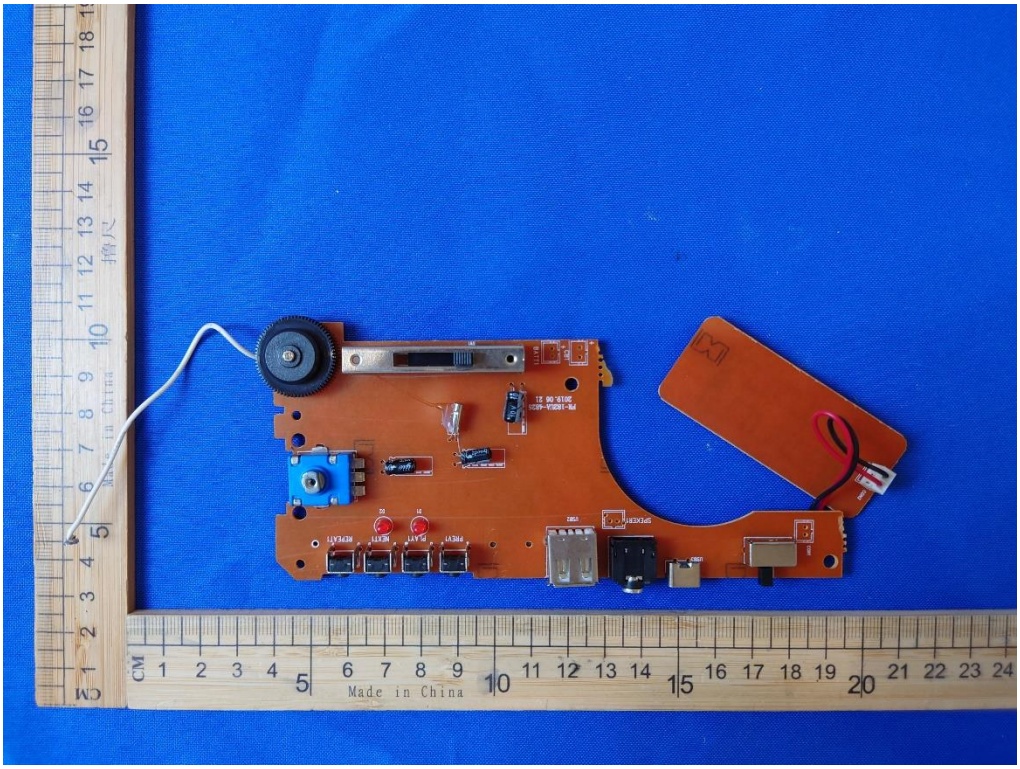
X-BASS
Friendly
Made in China

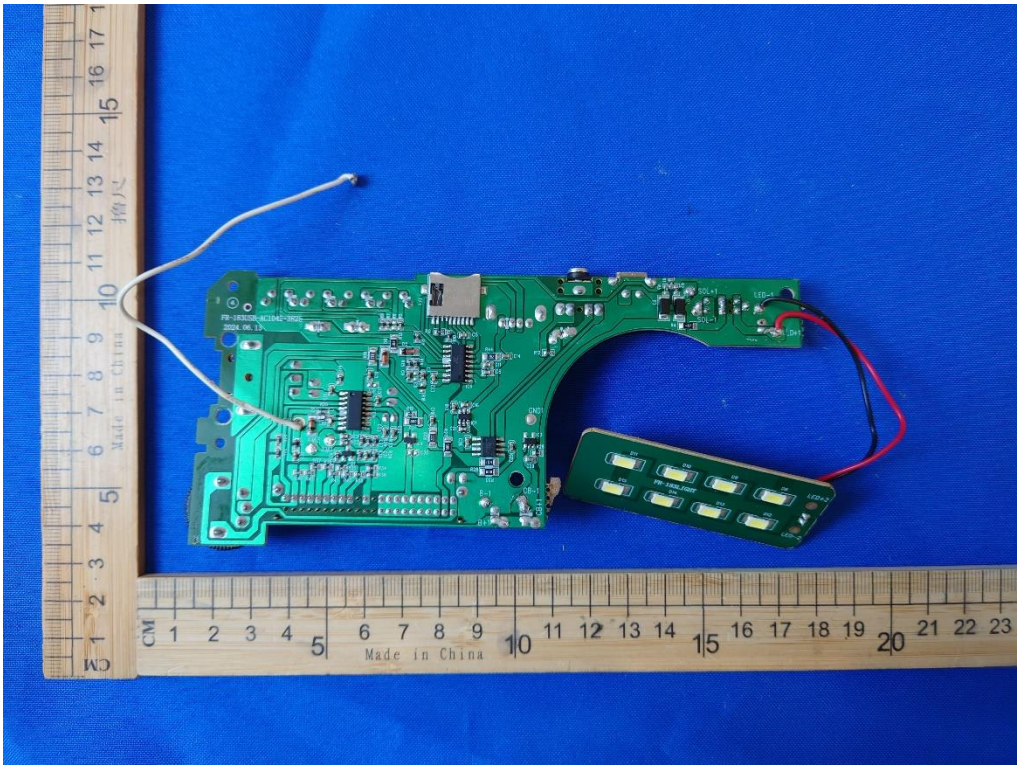
X-BASS
Friendly
118U
VOLUME
TUNING
Made in China

Internal






Made in China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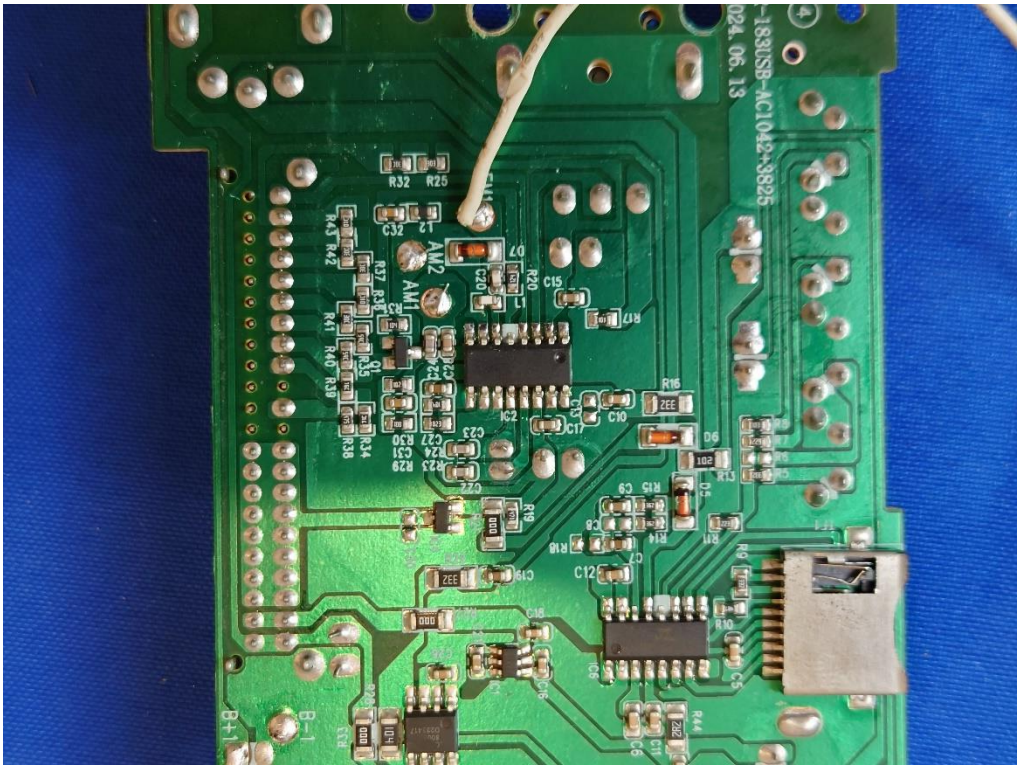

END OF REPORT