



FCC TEST REPORT

FCC ID:2BUQO-CDX-PHTR2514

Report Number..... : ZKT-2601271931E

Date of Test..... : Jan. 28, 2026 to Feb. 02, 2026

Date of issue..... : Feb. 02, 2026

Total number of pages..... : 14

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : CDX Technology Europe B.V.

Address : Meander 551, 6825 MD Arnhem, the Netherlands

Manufacturer's name : Gemini Embedded Technology BV

Address : Meander 551, 6825 MD Arnhem, the Netherlands

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart B
ANSI C63.4:2014

Test procedure..... : FCC

Non-standard test method : N/A

Test Report Form No..... : TRF-EL-117_V0

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : CDX Phone Transceiver

Trademark : CDX

Model/Type reference..... : Phone Transceiver

Ratings..... : Input: 5V---2.5A



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





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1.VERSION

Report No.	Version	Description	Approved
ZKT-2601271931E	Rev.01	Initial issue of report	Feb. 02, 2026



2.GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT : CDX Phone Transceiver
Trademark : CDX
Model Number : Phone Transceiver
Serial Models : N/A
Model Difference : N/A
Hardware Version : CDX251402-(A/B)
Software Version : V3.3.0
Power Supply : Input: 5V---2.5A

2.2 Test Summary

Test procedures according to the technical standards:

FCC Part15 Subpart B			
Standard Section	Test Item	Result	Remark
15.107	AC Power Line Conducted Emission	PASS	
15.109	Radiated Emission	PASS	

2.3 Tested System Details

None.

2.4 Test Facility

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491
Designation Number: CN1431
IC Registered No.: 27033

2.5 Description of Test Mode

For all Test Mode	Description
Mode 1	TX Working Mode



2.6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Value (dB)
Conducted Emission (150K-30MHZ)	3.20
Radiated disturbance30MHz-1000MHz	4.80



2.7 Test Instrument Used

Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May. 25, 2025	May. 24, 2026
4	Test Cable	N/A	C-02	N/A	N/A	May. 25, 2025	May. 24, 2026
5	Test Cable	N/A	C-03	N/A	N/A	May. 25, 2025	May. 24, 2026
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
7	Triple-Loop Antenna	N/A	RF300	9194	N/A	Sep. 19, 2025	Sep. 18, 2026
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Sep. 23, 2025	Sep. 22, 2026
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

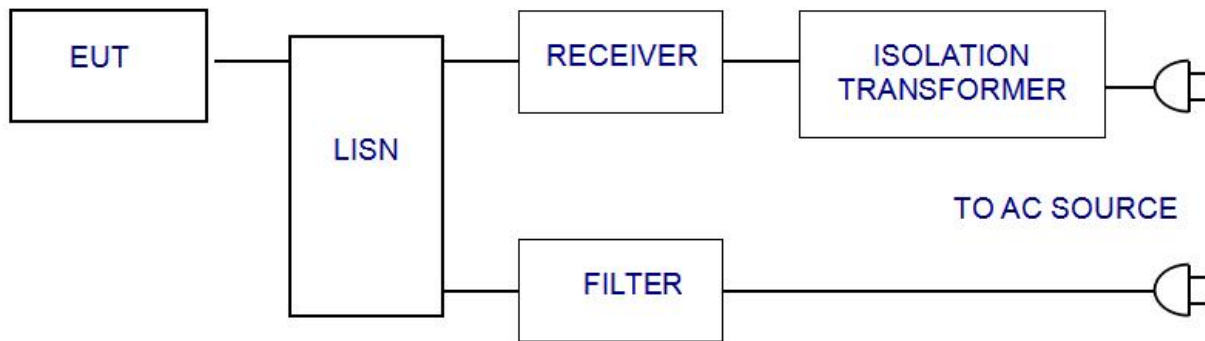
Radiation Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May. 25, 2025	May. 24, 2026
12	Test Cable	N/A	R-02	N/A	N/A	May. 25, 2025	May. 24, 2026
13	Test Cable	N/A	R-03	N/A	N/A	May. 25, 2025	May. 24, 2026
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



3.CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

3.1 Block Diagram Of Test Setup



3.2 Test Standard

FCC PART 15 B

3.3 Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	79	66
0.50 ~ 30.00	73	60

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4 EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5 Operating Condition of EUT

- 3.5.1 Setup the EUT and simulators as shown in Section 3.1.
- 3.5.2 Turn on the power of all equipments.
- 3.5.3 Let the EUT work in test modes and test it.

3.6 Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

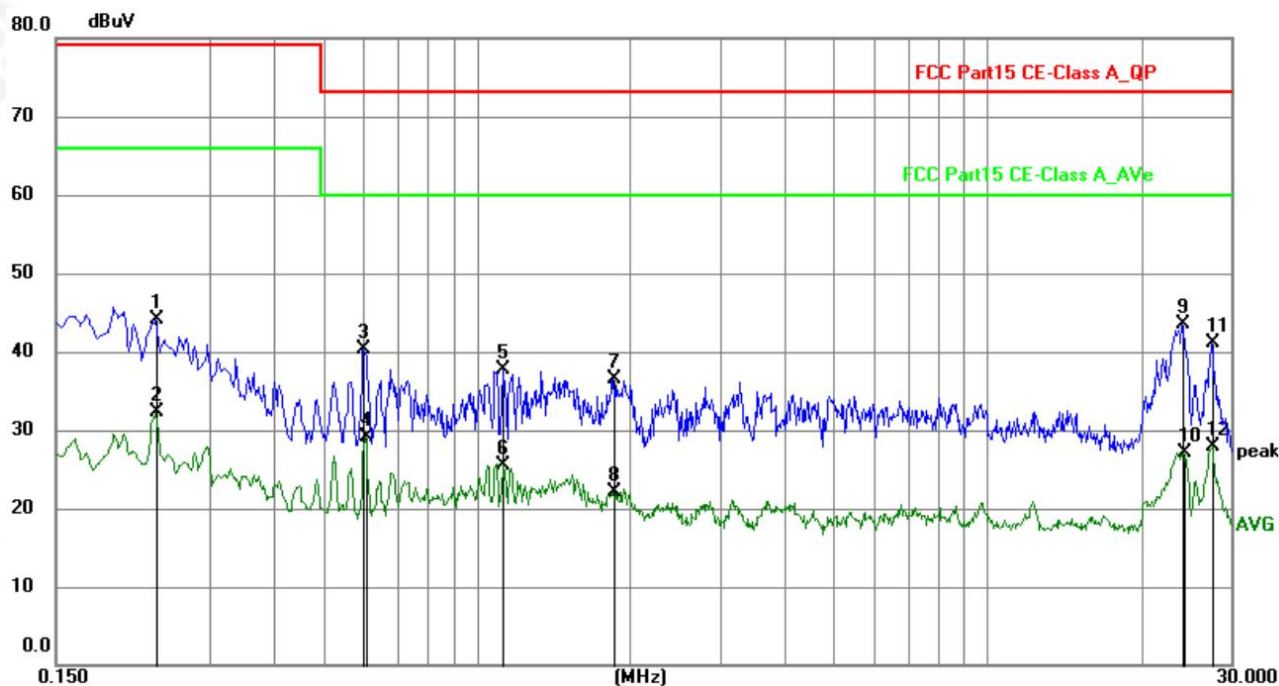
The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.



3.7 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Working



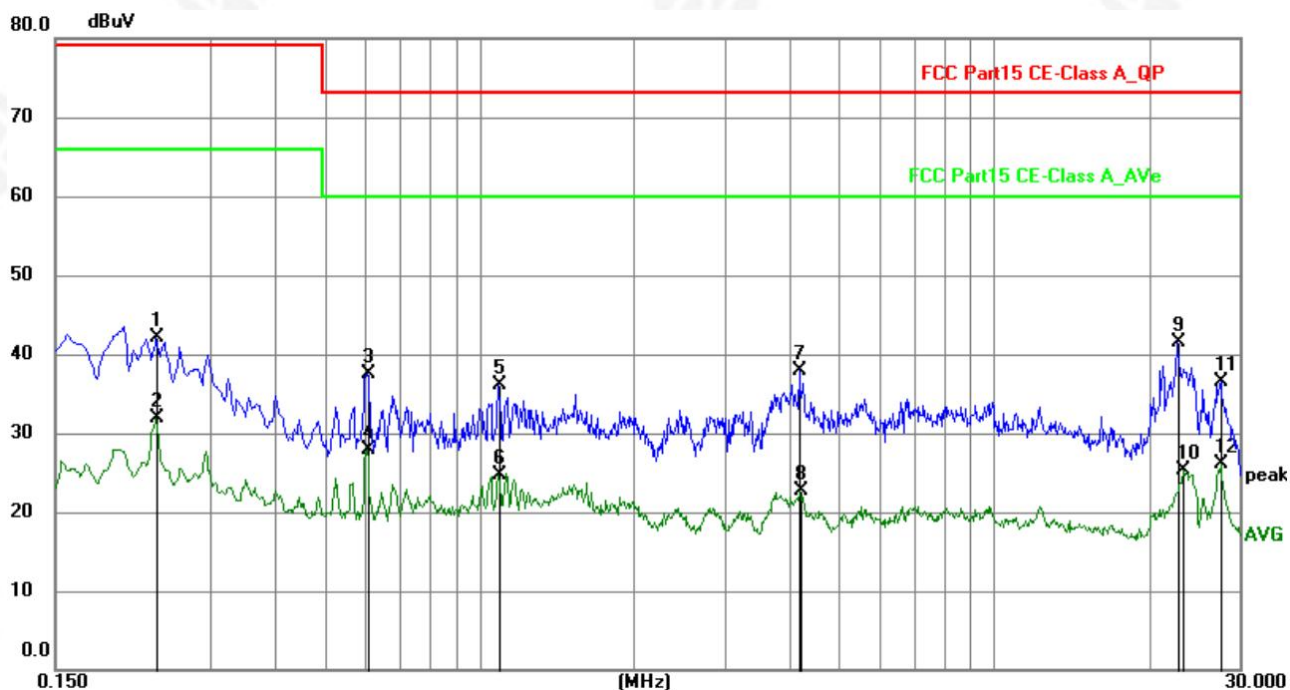
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2355	24.50	19.66	44.16	79.00	-34.84	QP	P	
2	0.2355	12.64	19.66	32.30	66.00	-33.70	AVG	P	
3	0.6000	20.64	19.63	40.27	73.00	-32.73	QP	P	
4	0.6044	9.57	19.63	29.20	60.00	-30.80	AVG	P	
5	1.1264	18.01	19.66	37.67	73.00	-35.33	QP	P	
6	1.1264	5.94	19.66	25.60	60.00	-34.40	AVG	P	
7	1.8509	16.75	19.67	36.42	73.00	-36.58	QP	P	
8	1.8509	2.52	19.67	22.19	60.00	-37.81	AVG	P	
9	24.1395	23.64	19.78	43.42	73.00	-29.58	QP	P	
10	24.2160	7.40	19.78	27.18	60.00	-32.82	AVG	P	
11	27.5280	21.34	19.75	41.09	73.00	-31.91	QP	P	
12	27.5955	8.23	19.76	27.99	60.00	-32.01	AVG	P	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Liss factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2355	22.48	19.64	42.12	79.00	-36.88	QP	P	
2	0.2355	12.36	19.64	32.00	66.00	-34.00	AVG	P	
3	0.6044	17.81	19.62	37.43	73.00	-35.57	QP	P	
4	0.6044	8.24	19.62	27.86	60.00	-32.14	AVG	P	
5	1.0904	16.42	19.65	36.07	73.00	-36.93	QP	P	
6	1.0904	5.00	19.65	24.65	60.00	-35.35	AVG	P	
7	4.1955	18.19	19.69	37.88	73.00	-35.12	QP	P	
8	4.2090	3.04	19.69	22.73	60.00	-37.27	AVG	P	
9	22.7265	21.80	19.76	41.56	73.00	-31.44	QP	P	
10	23.3520	5.56	19.75	25.31	60.00	-34.69	AVG	P	
11	27.5640	16.75	19.73	36.48	73.00	-36.52	QP	P	
12	27.5640	6.31	19.73	26.04	60.00	-33.96	AVG	P	

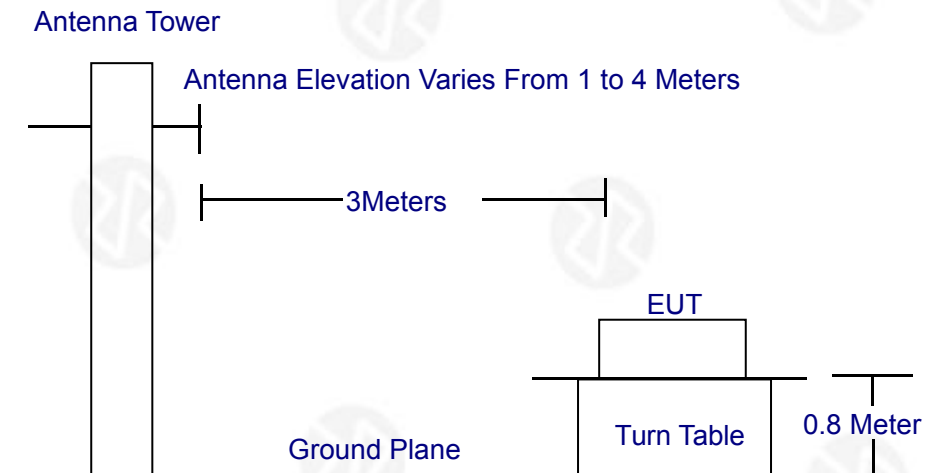
Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Liss factor+ Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.



4.RADIATION EMISSION TEST

4.1 Block Diagram of Test Setup



4.2 Test Standard

FCC PART 15 B

4.3 Radiation Limit

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBuV/m)
30 ~ 88	3	49.00
88 ~ 216	3	53.50
216 ~ 960	3	56.50
960 ~ 1000	3	59.50

4.4 EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test. The configuration of EUT is the same as used in conducted emission test. Please refer to Section 2.2.

4.5 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

4.6 Test Procedure

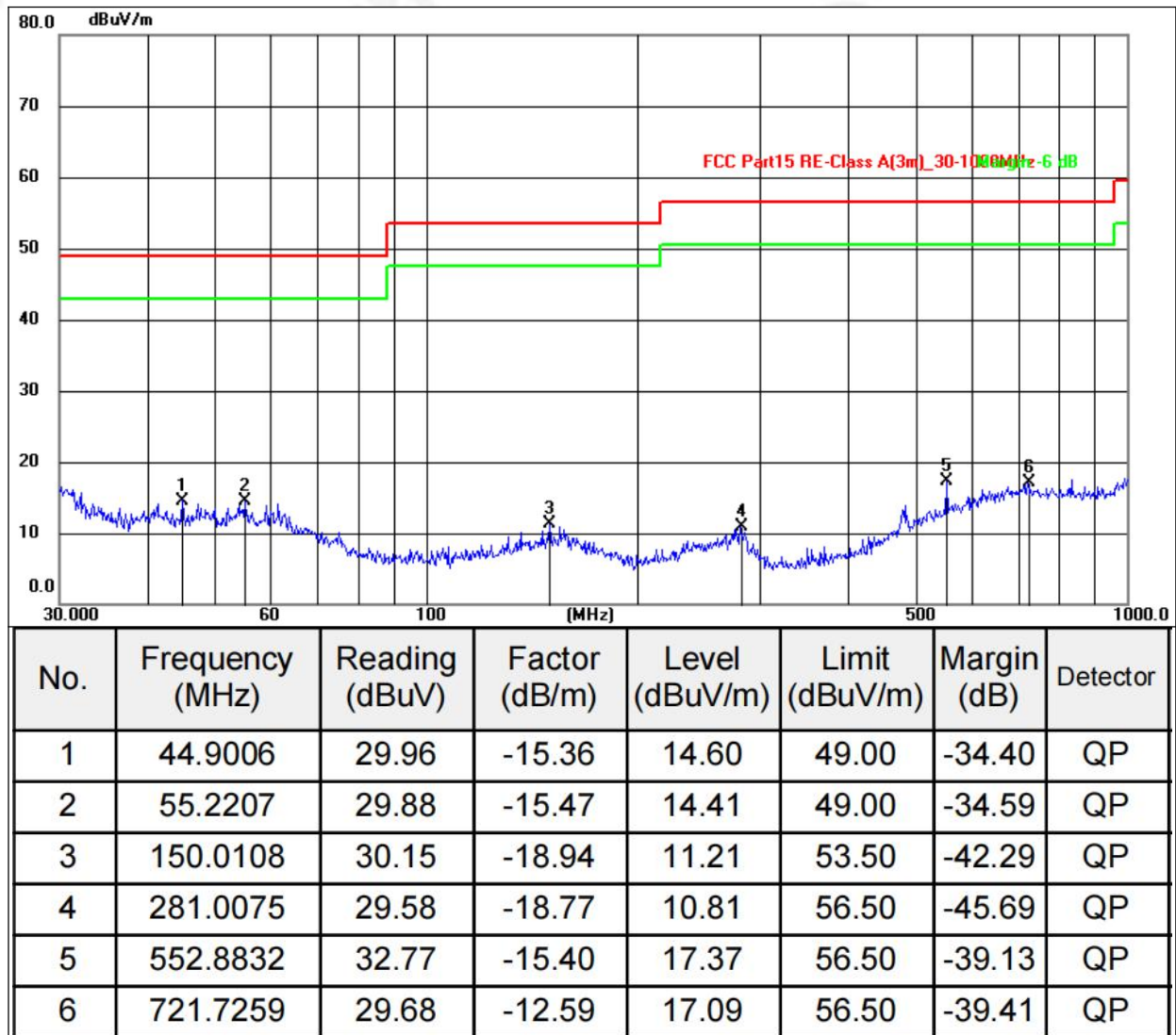
The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz below 1GHz, set at 1MHz above 1GHz. The frequency range from 30MHz to 1000MHz is checked. The highest frequency of the internal sources of the EUT was below 108MHz, so the measurement was only made up to 1GHz.



4.7 Test Result

Radiation Emission Test Data			
Temperature:	26℃	Relative Humidity:	60%
Pressure:	1009hPa	Phase :	Horizontal
Test Voltage :	DC 5V	Test Mode:	Working



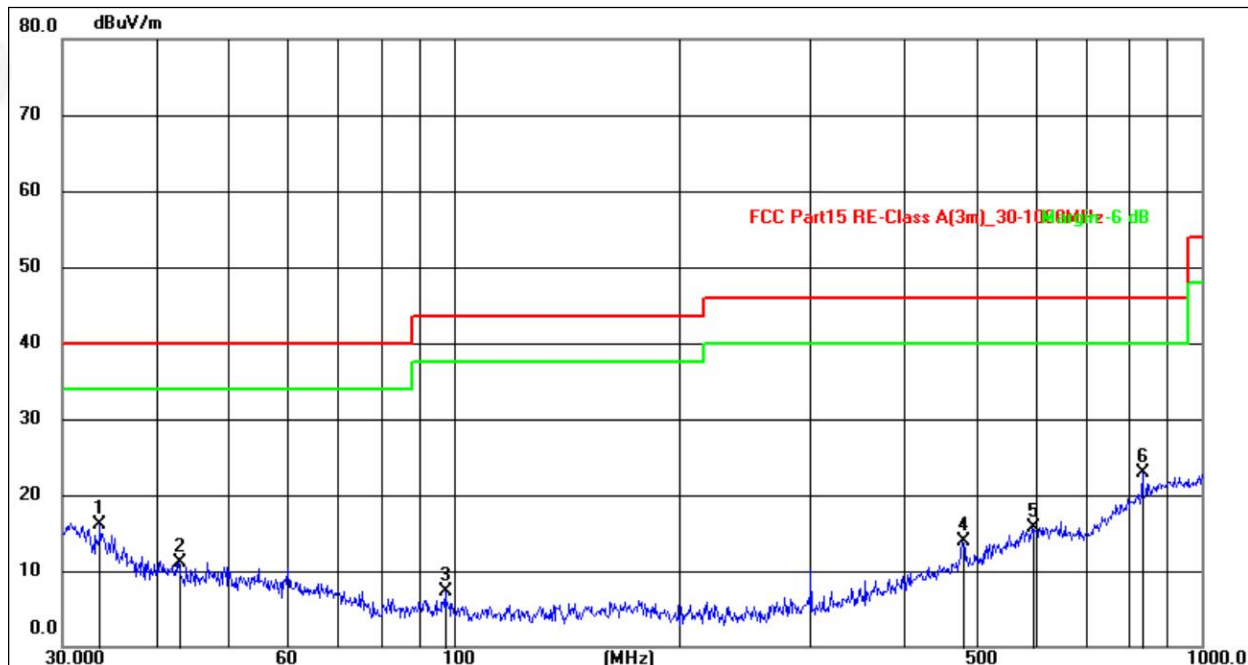
Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor
5. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor
6. Margin = Measurement Level - Limit



Radiation Emission Test Data

Temperature:	26°C	Relative Humidity:	60%
Pressure:	1009hPa	Phase :	Vertical
Test Voltage :	DC 5V	Test Mode:	Working



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.6802	35.05	-19.03	16.02	40.00	-23.98	QP
2	42.8998	29.43	-18.24	11.19	40.00	-28.81	QP
3	97.4560	30.14	-22.90	7.24	43.50	-36.26	QP
4	478.8456	31.19	-17.33	13.86	46.00	-32.14	QP
5	593.0497	29.06	-13.43	15.63	46.00	-30.37	QP
6	833.3171	31.77	-8.84	22.93	46.00	-23.07	QP

Notes:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Final Level = Reading level + Correct Factor
5. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor
6. Margin = Measurement Level - Limit



5.EUT PHOTOGRAPHS

Reference to the appendix II for details.

6.EUT TEST PHOTOGRAPHS

Reference to the appendix I for details.

***** END OF REPORT *****