



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street,
Bao'an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.: CTA25110401601

FCC ID.: 2B06V-KI-D086L

Compiled by

(position+printed name+signature): File administrators Zoey Cao

Supervised by

(position+printed name+signature): Project Engineer Ace Chai

Approved by

(position+printed name+signature): RF Manager Eric Wang

Date of issue: Dec. 02, 2025

Testing Laboratory Name: Shenzhen CTA Testing Technology Co., Ltd.

Address: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

Address: 1ST FLOOR, BUILDING 12TH, HONGFA INDUSTRIAL PARK, NO.91
TANGTOU RD, SHIYAN STREET, BAOAN, SHENZHEN,
GUANGDONG, China

Test specification:

Standard: FCC Part 15.247

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Equipment description: Interactive intelligent panel

Trade Mark: N/A

Manufacturer: SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

Model/Type reference: KI-D086L

Listed Models: KI-D055L, KI-D065L, KI-D075L

Modulation: GFSK

Frequency: From 2402MHz to 2480MHz

Ratings: AC 120V, 50/60Hz

Result: PASS

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

TEST REPORT

Equipment under Test : Interactive intelligent panel

Model /Type : KI-D086L

Listed Models : KI-D055L, KI-D065L, KI-D075L

Model difference : The PCB board, circuit, structure and internal of these models are the same, Only model number, appearance, screen size are different for these model.

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TANGTOU RD, SHIYAN STREET, BAOAN, SHENZHEN,
GUANGDONG, China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020 +COR. 1-2023+ C63.10A-2024+ ERRATA TO C63.10A-2024](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 V05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Nov. 04, 2025
Testing commenced on	:	Nov. 04, 2025
Testing concluded on	:	Dec. 02, 2025

2.2 Product Description*

Product Description:	Interactive intelligent panel
Model/Type reference:	KI-D086L
Power supply:	AC 120V, 50/60Hz
Hardware version:	V1.0
Software version:	V1.0
Testing sample ID:	CTA251104016-1# (Engineer sample) CTA251104016-2# (Normal sample)
Bluetooth BLE	
Supported type:	Bluetooth low Energy
Modulation:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2 MHz
Bit Rate of Transmitter:	1Mbps
Antenna type:	External antenna
Antenna gain:	2.0 dBi

2.3 Equipment Under Test

Power supply system utilised

Refer to section 2.2

2.4 Short description of the Equipment under Test (EUT)

This is a Interactive intelligent panel.

For more details, refer to the user's manual of the EUT.

Test Software Version	Tools software(ADB command)		
Frequency	2402 MHz	2440MHz	2480 MHz
GFSK	3	3	3

2.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

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2.6 EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. There are 40 channels provided to the EUT and Channel 00/19/39 were selected to test.

Operation Frequency:

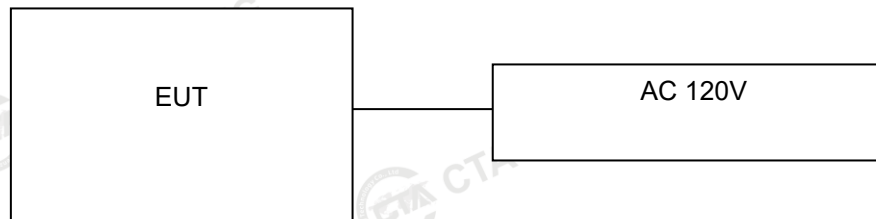
Channel	Frequency (MHz)
00	2402

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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
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01	2404
02	2406
⋮	⋮
19	2440
⋮	⋮
37	2476
38	2478
39	2480

2.7 Block Diagram of Test Setup



2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

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

Radiated Emission:

Temperature:	23 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	47 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	46 %
Atmospheric pressure:	950-1050mbar

3.4 Summary of measurement results

Test Specification clause	Test case	Test Mode	Test Channel	Recorded In Report		Test result
§15.247(e)	Power spectral density	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	complies
§15.247(a)(2)	Spectrum bandwidth – 6 dB bandwidth	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	complies
§15.247(b)(3)	Maximum output Peak power	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	complies
§15.247(d)	Band edge compliance conducted	BLE 1Mbps	☒ Lowest ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Highest	complies
§15.205	Band edge compliance radiated	BLE 1Mbps	☒ Lowest ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Highest	complies
§15.247(d)	TX spurious emissions conducted	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	complies
§15.247(d)	TX spurious emissions radiated	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	BLE 1Mbps	☒ Lowest ☒ Middle ☒ Highest	complies
§15.209(a)	TX spurious Emissions radiated Below 1GHz	BLE 1Mbps	-/-	BLE 1Mbps	-/-	complies
§15.107(a) §15.207	Conducted Emissions < 30 MHz	BLE 1Mbps	-/-	BLE 1Mbps	-/-	complies

Remark:

1. The measurement uncertainty is not included in the test result.
2. We tested all test mode and recorded worst case in report
3. RF Conducted test Offset= cable loss, For conducted spurious emission test, cable loss is the maximum value in the range of test.

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)

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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Time	/	±2%	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

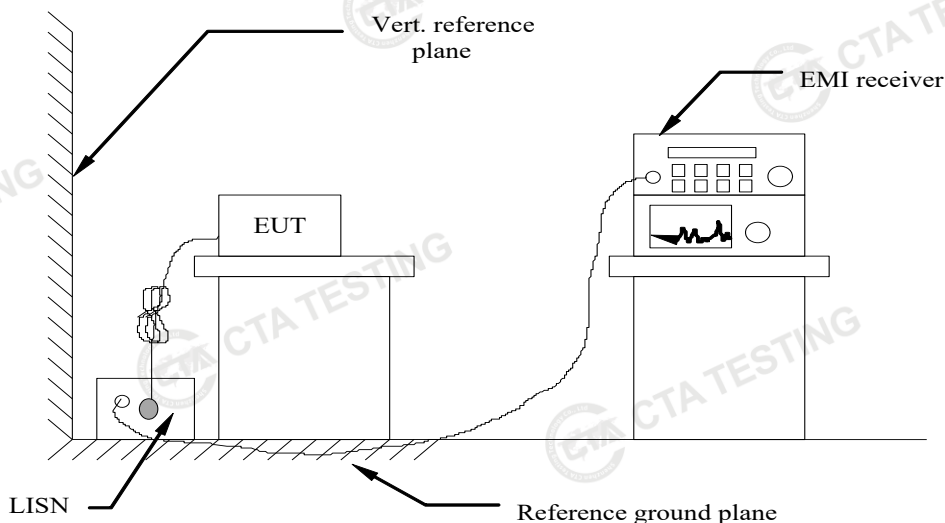
3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2025/08/04	2026/08/03
LISN	R&S	ENV216	CTA-314	2025/07/30	2026/07/29
EMI Test Receiver	R&S	ESPI	CTA-307	2025/07/30	2026/07/29
EMI Test Receiver	R&S	ESCI	CTA-306	2025/07/30	2026/07/29
Spectrum Analyzer	Agilent	N9020A	CTA-301	2025/05/17	2026/05/16
Spectrum Analyzer	Agilent	N9020A	CTA-301	2025/07/30	2026/07/29
Vector Signal generator	Agilent	N5182A	CTA-305	2025/07/30	2026/07/29
Analog Signal Generator	R&S	E4421B	CTA-304	2025/07/30	2026/07/29
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	CTA-302	2025/07/30	2026/07/29
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2025/07/31	2026/07/30
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
Horn Antenna	Schwarzbeck	BBHA 9170	CTA-346	2025/05/18	2028/05/17
Amplifier	Schwarzbeck	BBV9745	CTA-312	2025/07/30	2026/07/29
Amplifier	Tonscend	TAP-011840	CTA-313	2025/07/30	2026/07/29
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2025/07/30	2026/07/29
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2025/07/30	2026/07/29
Automatic control unit	Tonscend	JS0806-2	CTA-351	2025/07/30	2026/07/29
Amplifier	SKET	LNPA 1840G-50	CTA-345	2025/05/17	2026/05/16
Spectrum analyzer	R&S	FSV40-N	CTA-344	2025/05/17	2026/05/16
Attenuator	XINQY	10dB	N/A	N/A	N/A
Programmable Constant Temperature And Humidity Test Chamber	DONGGUAN JINGYU	HT-H-408	CTA-053	2025/07/30	2026/07/29
EMI Test Software	Tonscend	TS@JS32-RE	5.0.0.2	N/A	N/A
EMI Test Software	Tonscend	TS@JS32-CE	5.0.0.1	N/A	N/A
RF Test Software	Tonscend	TS@JS1120-3	3.1.65	N/A	N/A
RF Test Software	Tonscend	TS@JS1120	3.1.46	N/A	N/A

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Remark:

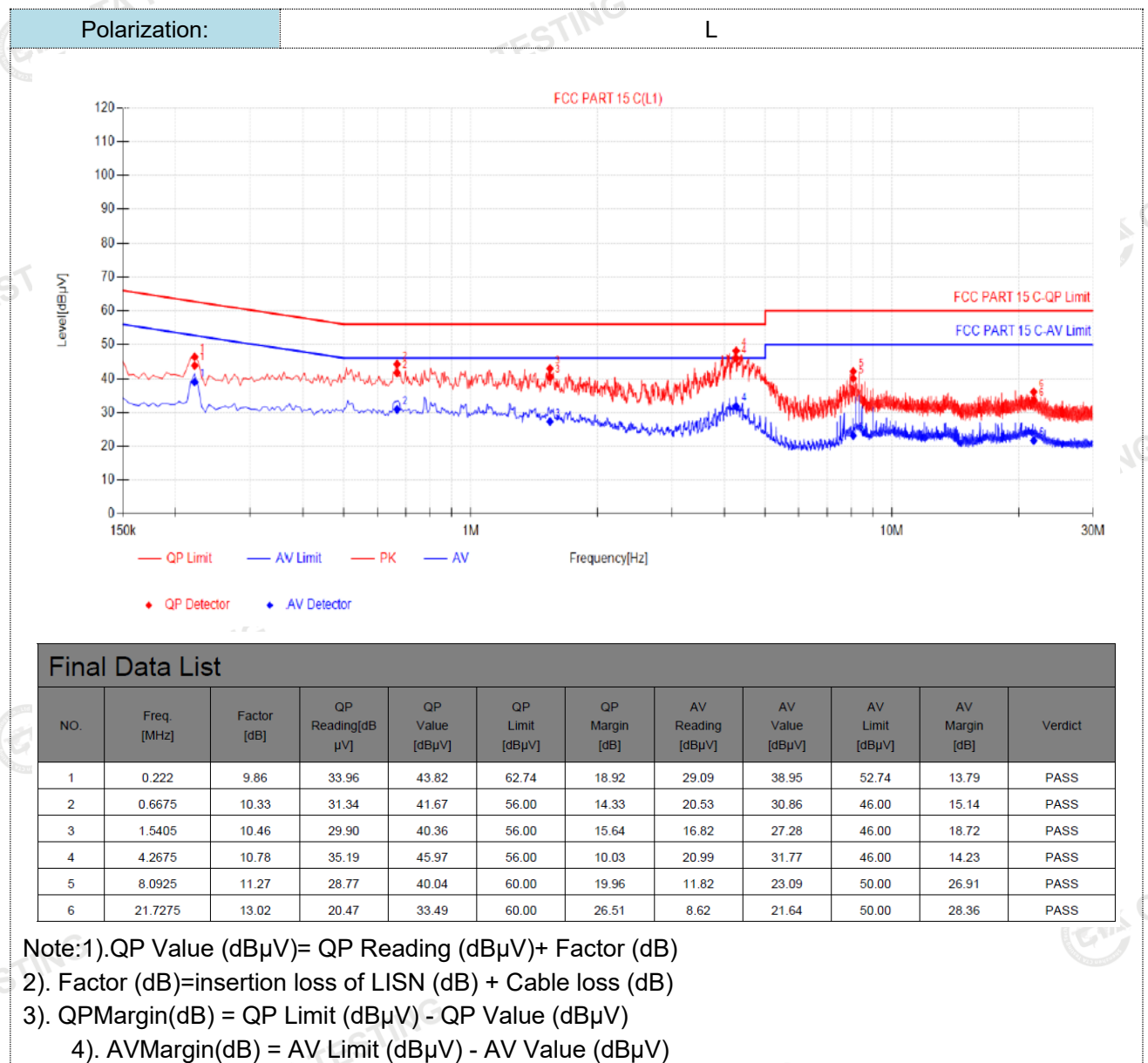
1. BLE 1Mbps was tested at Low, Middle, and High channel; only the worst result of BLE 1Mbps High channel was reported as below:

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
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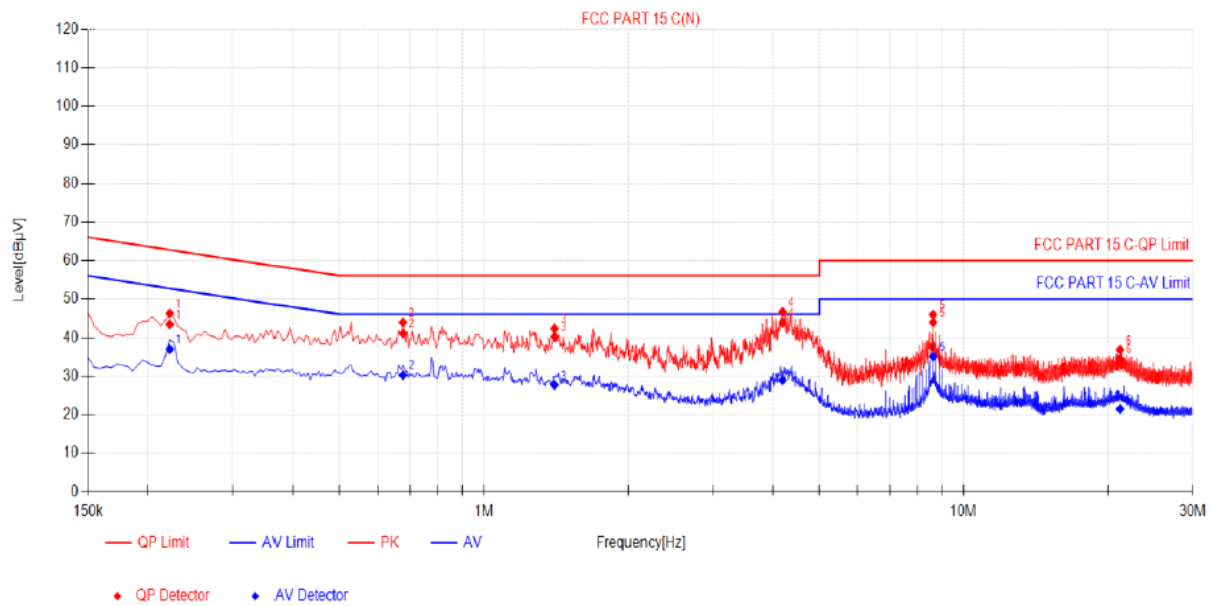
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

KI-D086L:



Polarization:

N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.222	9.81	33.60	43.41	62.74	19.33	27.10	36.91	52.74	15.83	PASS
2	0.6765	10.31	30.75	41.06	56.00	14.94	19.93	30.24	46.00	15.76	PASS
3	1.401	10.41	29.78	40.19	56.00	15.81	17.25	27.66	46.00	18.34	PASS
4	4.191	10.82	32.96	43.78	56.00	12.22	18.10	28.92	46.00	17.08	PASS
5	8.6415	11.41	32.47	43.88	60.00	16.12	23.62	35.03	50.00	14.97	PASS
6	21.2055	13.15	21.18	34.33	60.00	25.67	8.30	21.45	50.00	28.55	PASS

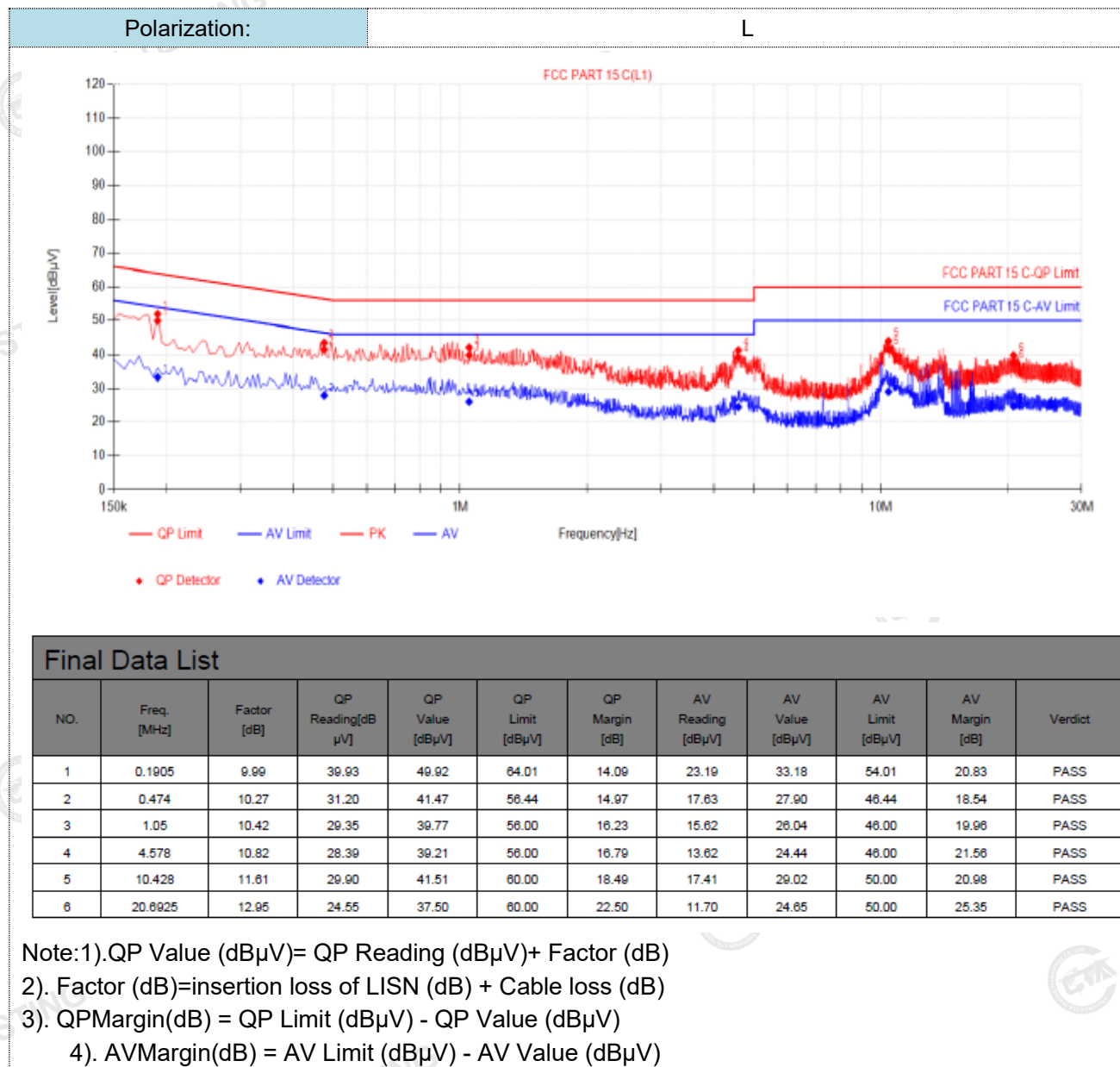
Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

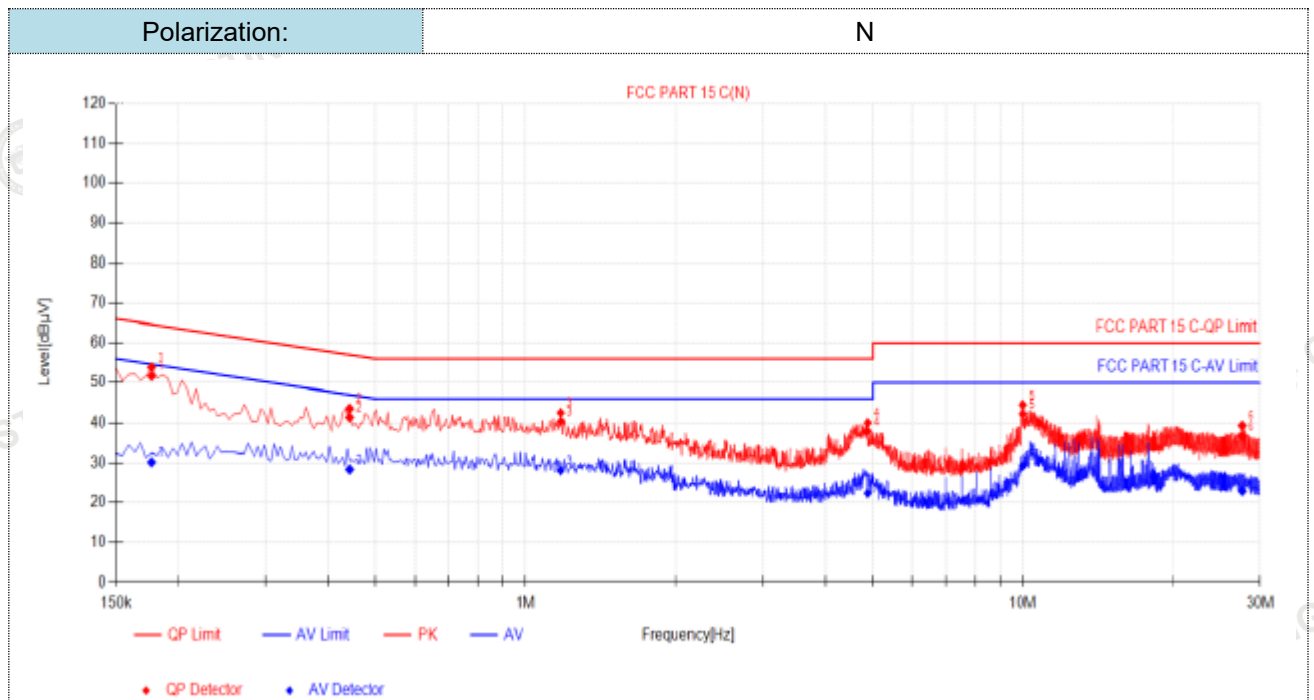
2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

KI-D055L:





Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.177	9.91	41.74	51.65	64.63	12.98	20.24	30.15	54.63	24.48	PASS
2	0.4425	10.21	31.13	41.34	57.01	15.67	18.14	28.35	47.01	18.66	PASS
3	1.176	10.39	29.90	40.29	56.00	15.71	17.72	28.11	46.00	17.89	PASS
4	4.875	10.91	26.93	37.84	56.00	18.16	11.41	22.32	46.00	23.68	PASS
5	9.9915	11.61	30.55	42.16	60.00	17.84	17.62	29.23	50.00	20.77	PASS
6	27.5775	13.62	22.97	36.59	60.00	23.41	9.24	22.86	50.00	27.14	PASS

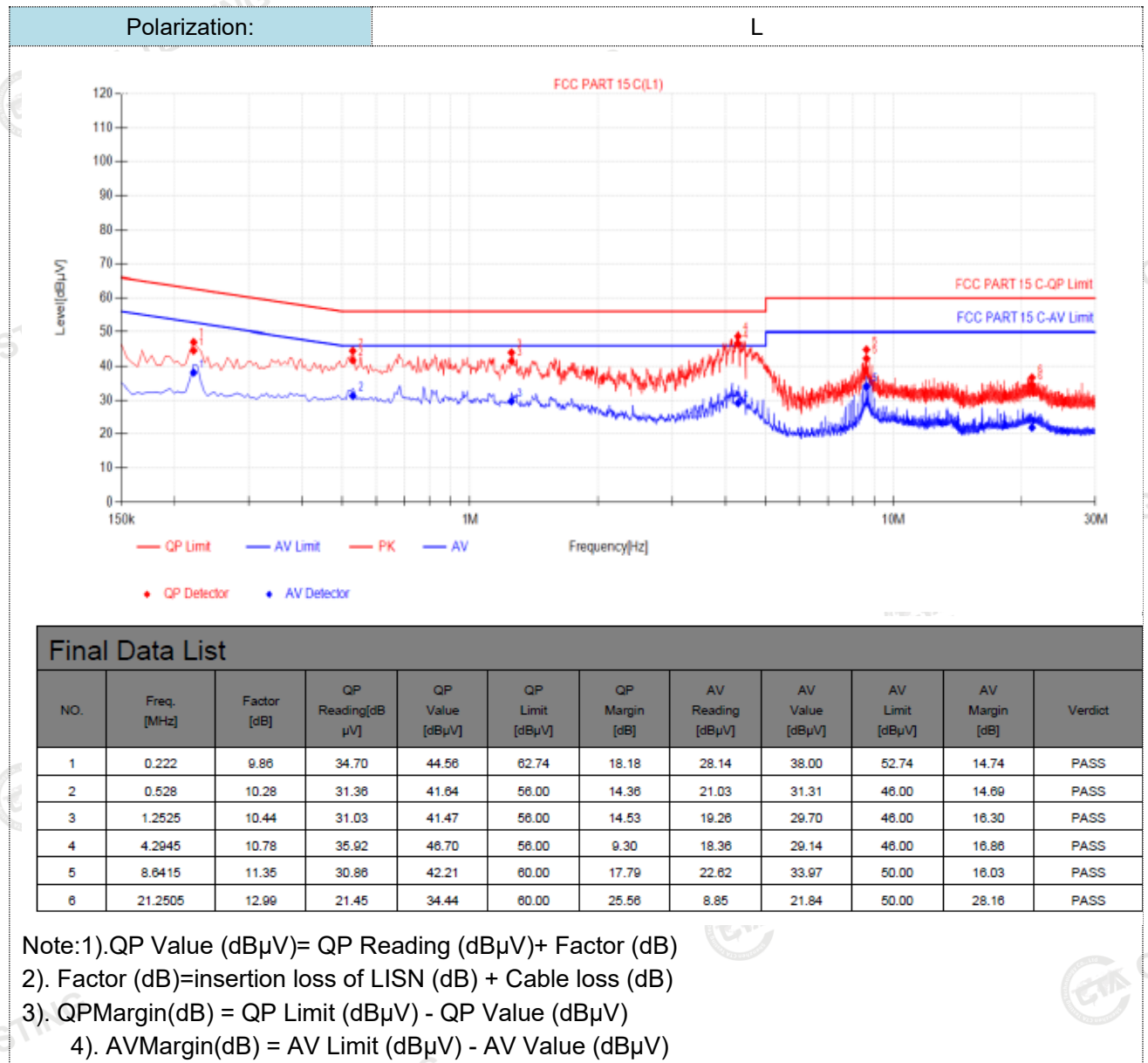
Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

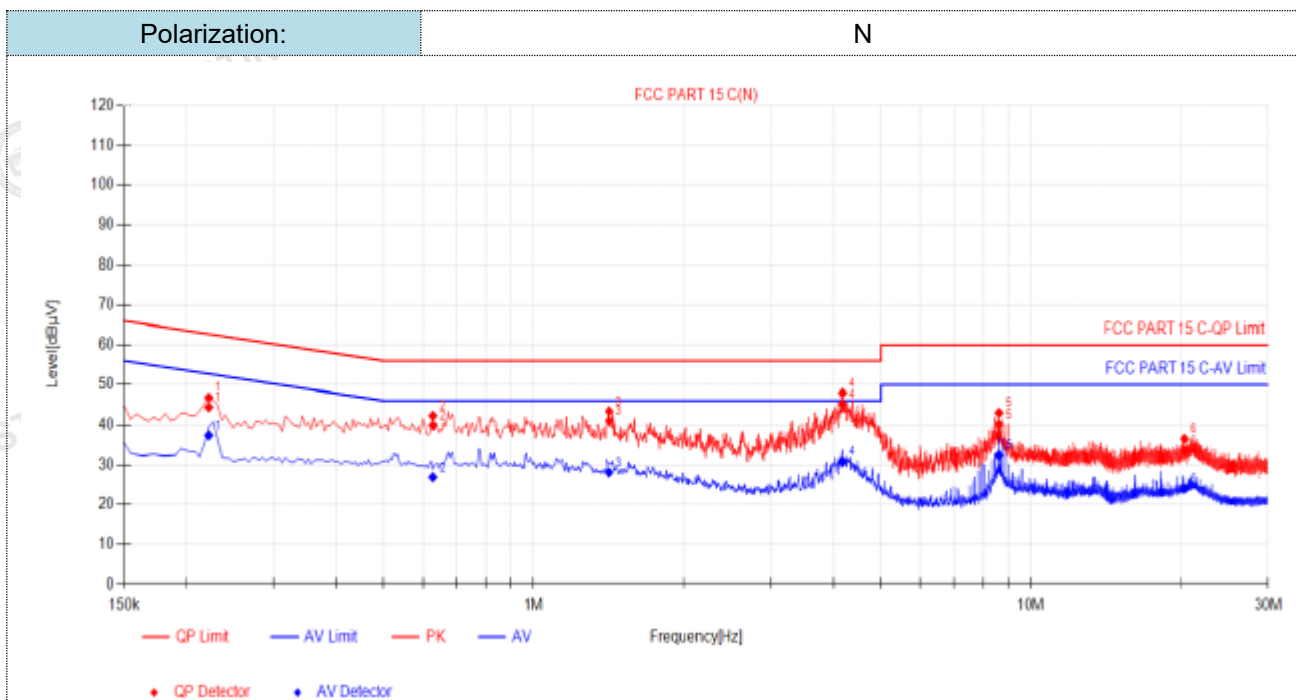
2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

KI-D065L:





Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.222	9.81	34.58	44.39	62.74	18.35	27.46	37.27	52.74	15.47	PASS
2	0.627	10.25	29.57	39.82	56.00	16.18	18.65	28.90	46.00	19.10	PASS
3	1.419	10.41	30.55	40.96	56.00	15.04	17.69	28.10	46.00	17.90	PASS
4	4.1865	10.82	34.39	45.21	56.00	10.79	19.92	30.74	46.00	15.26	PASS
5	8.637	11.41	28.63	40.04	60.00	19.96	20.92	32.33	50.00	17.67	PASS
6	20.382	13.10	20.34	33.44	60.00	26.56	10.88	23.98	50.00	26.02	PASS

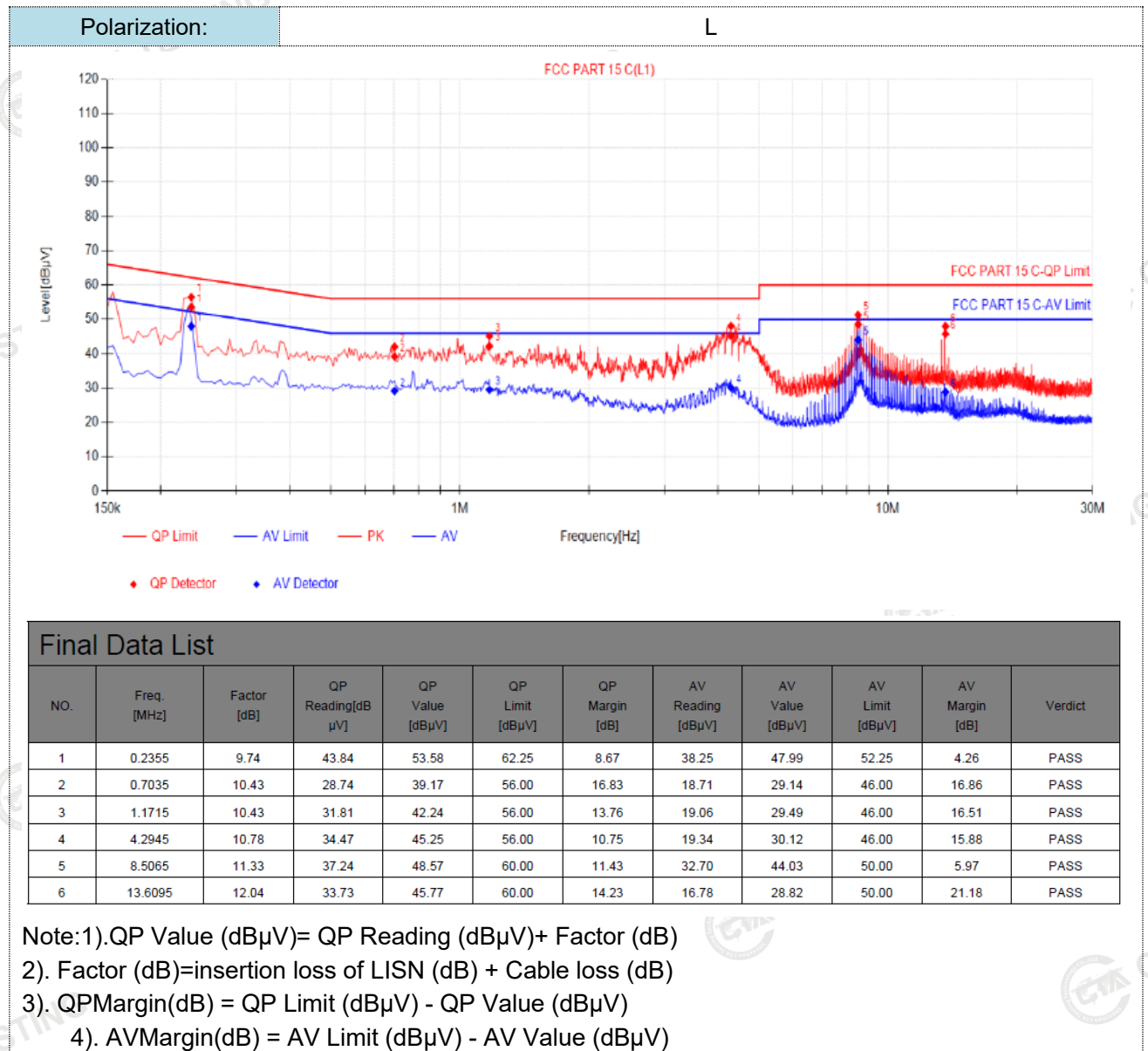
Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

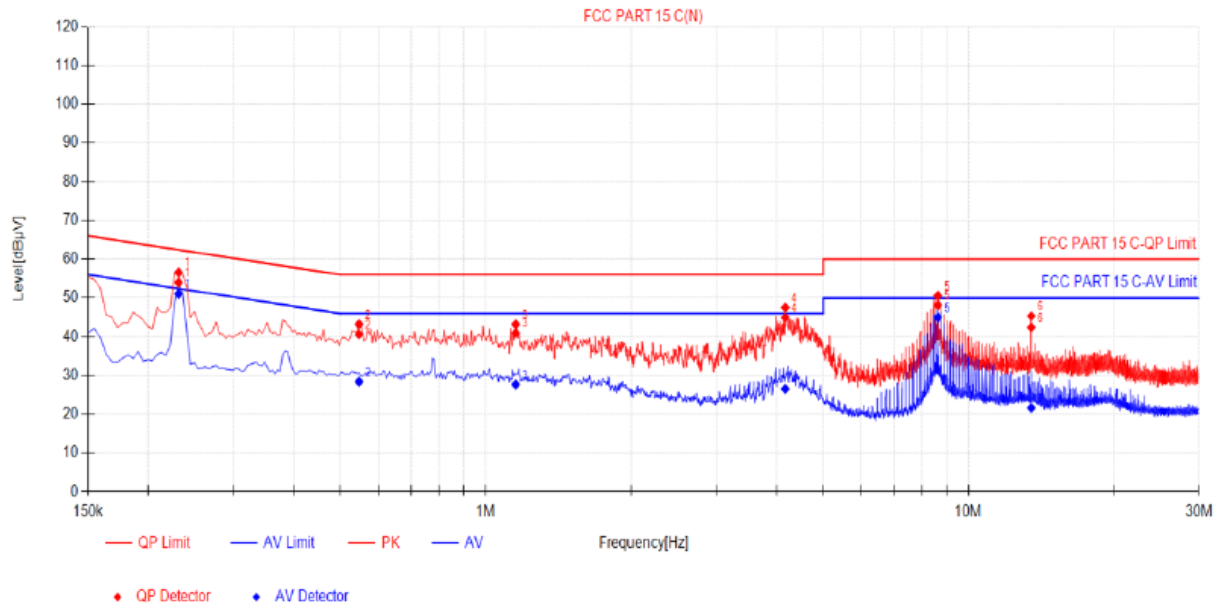
4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

KI-D075L:



Polarization:

N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.231	9.74	44.23	53.97	62.41	8.44	41.32	51.06	52.41	1.35	PASS
2	0.546	10.24	30.37	40.61	56.00	15.39	18.12	28.36	46.00	17.64	PASS
3	1.1535	10.39	30.58	40.97	56.00	15.03	17.26	27.65	46.00	18.35	PASS
4	4.1685	10.82	34.10	44.92	56.00	11.08	15.73	26.55	46.00	19.45	PASS
5	8.6415	11.41	36.72	48.13	60.00	11.87	33.59	45.00	50.00	5.00	PASS
6	13.488	12.12	30.29	42.41	60.00	17.59	9.51	21.63	50.00	28.37	PASS

Note:1). QP Value (dBμV) = QP Reading (dBμV) + Factor (dB)

2). Factor (dB) = insertion loss of LISN (dB) + Cable loss (dB)

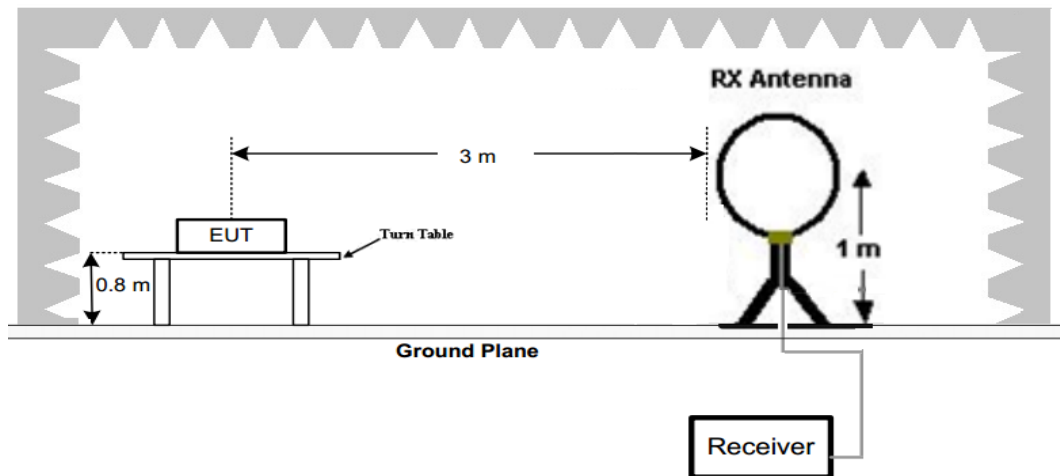
3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

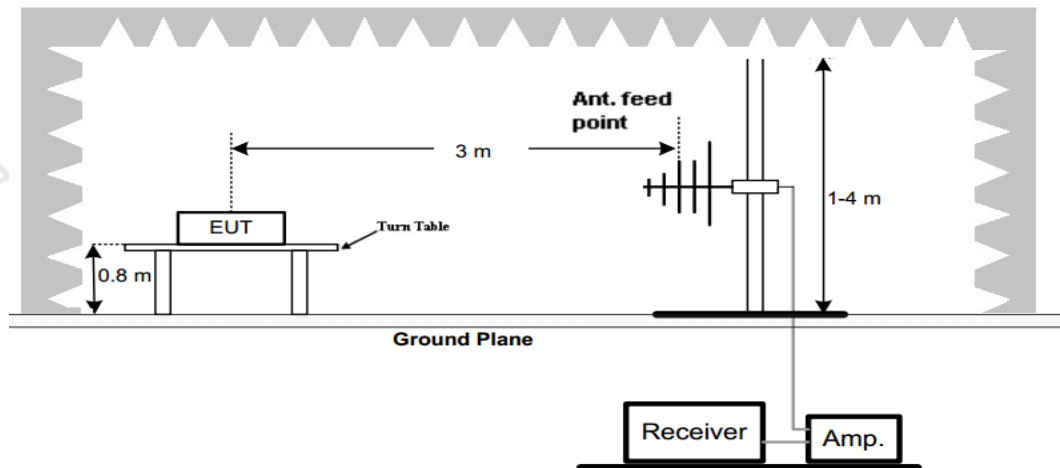
4.2 Radiated Emissions and Band Edge

TEST CONFIGURATION

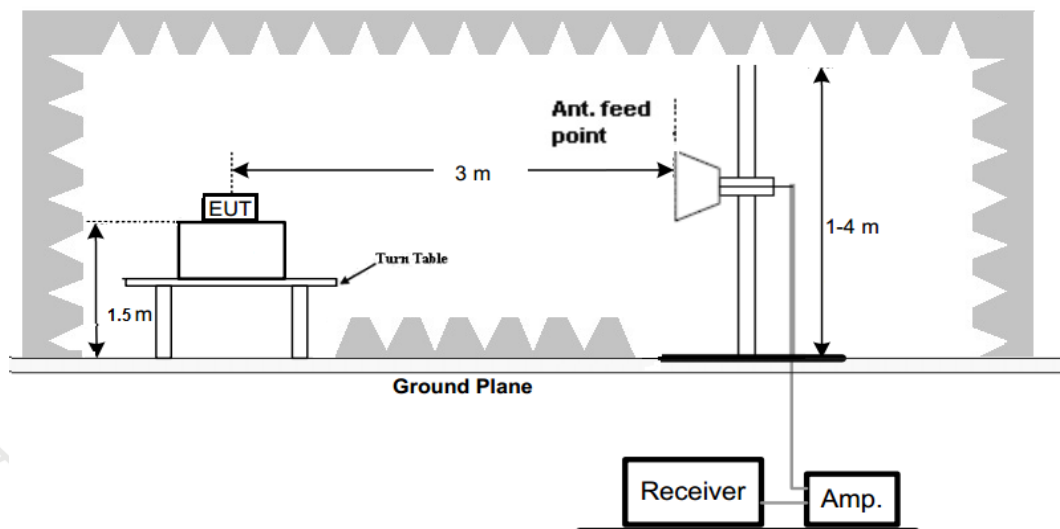
Frequency range 9 KHz – 30MHz

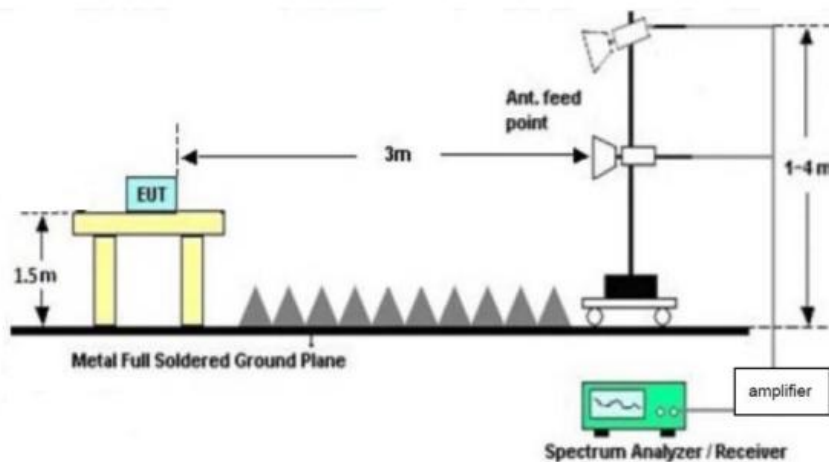


Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz





TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz; the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz. so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd} = AF + CL - AG$$

RADIATION LIMIT

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

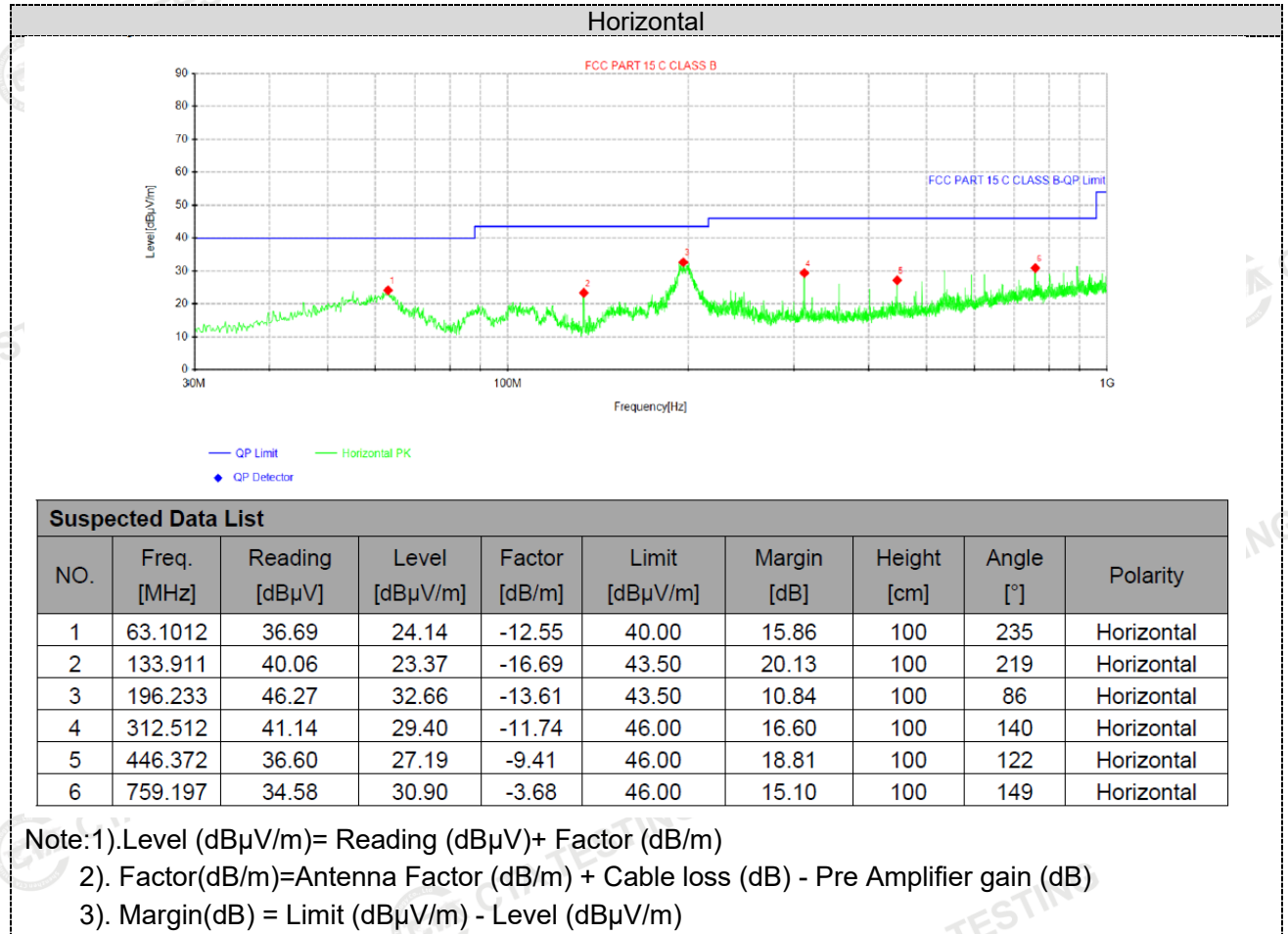
TEST RESULTS

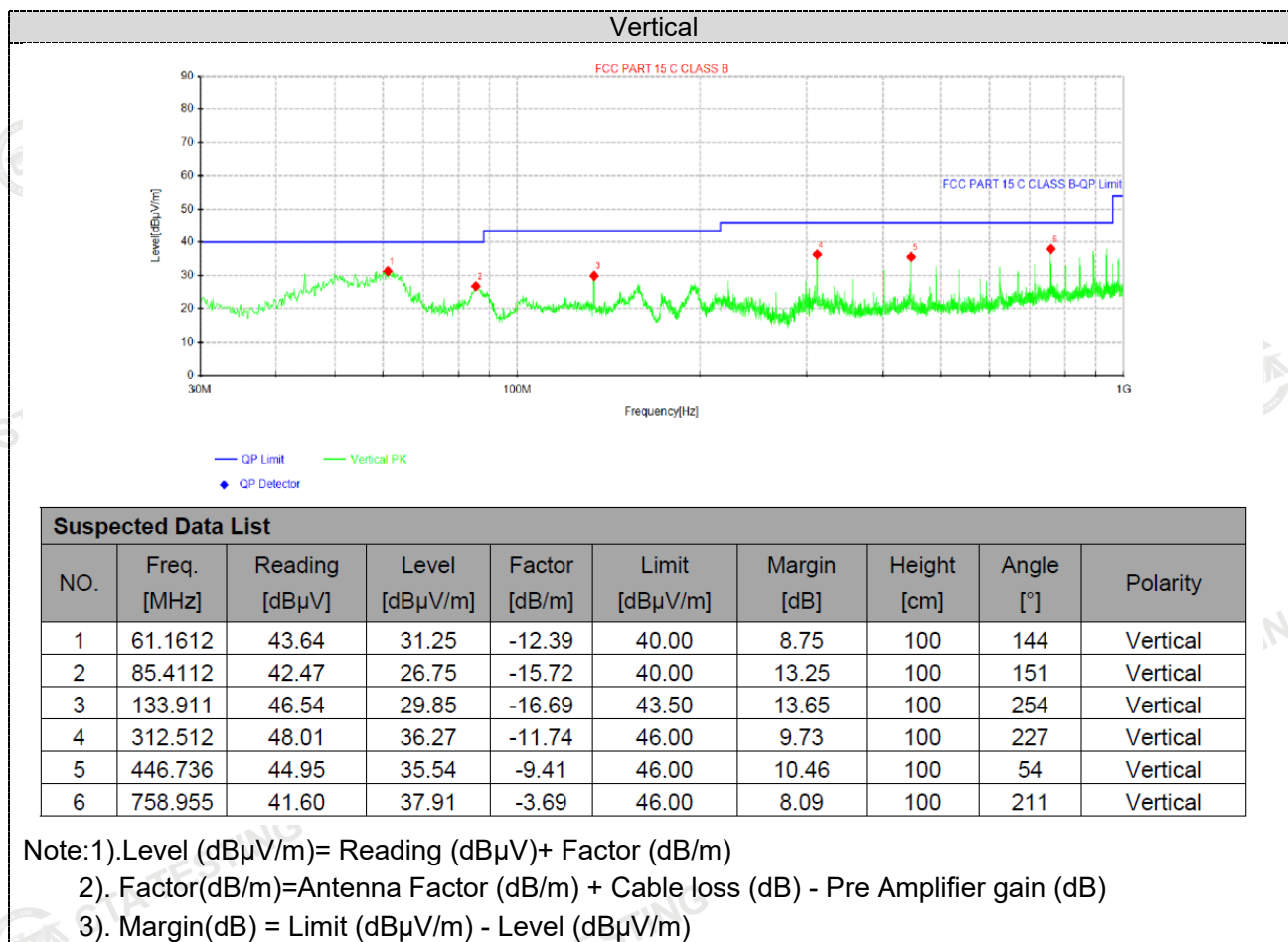
Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. BLE 1Mbps were tested at Low, Middle, and High channel for all models and recorded worst mode at the High channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

KI-D086L:

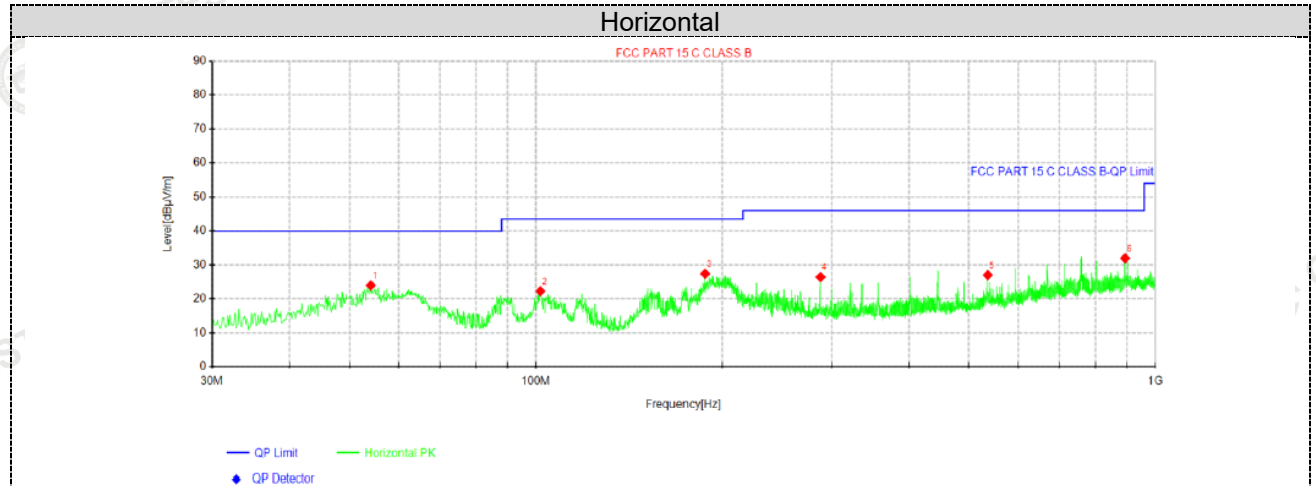
For 30MHz-1GHz





KI-D055L:

For 30MHz-1GHz

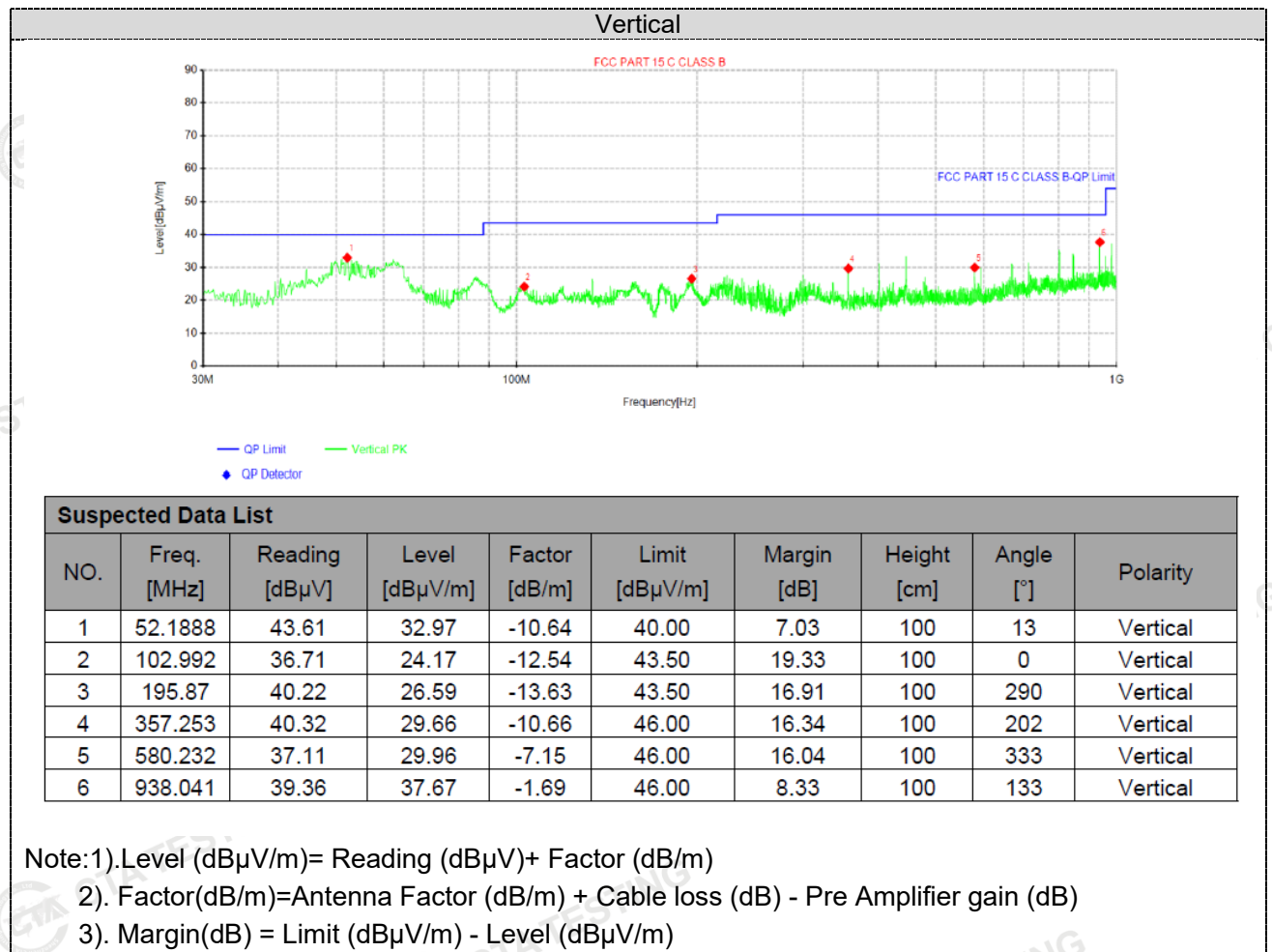
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.1288	34.82	24.00	-10.82	40.00	16.00	100	208	Horizontal
2	101.658	34.98	22.31	-12.67	43.50	21.19	100	235	Horizontal
3	187.503	42.12	27.40	-14.72	43.50	16.10	100	80	Horizontal
4	288.02	38.75	26.46	-12.29	46.00	19.54	100	303	Horizontal
5	536.34	35.16	27.02	-8.14	46.00	18.98	100	148	Horizontal
6	893.542	33.84	31.98	-1.86	46.00	14.02	100	114	Horizontal

Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

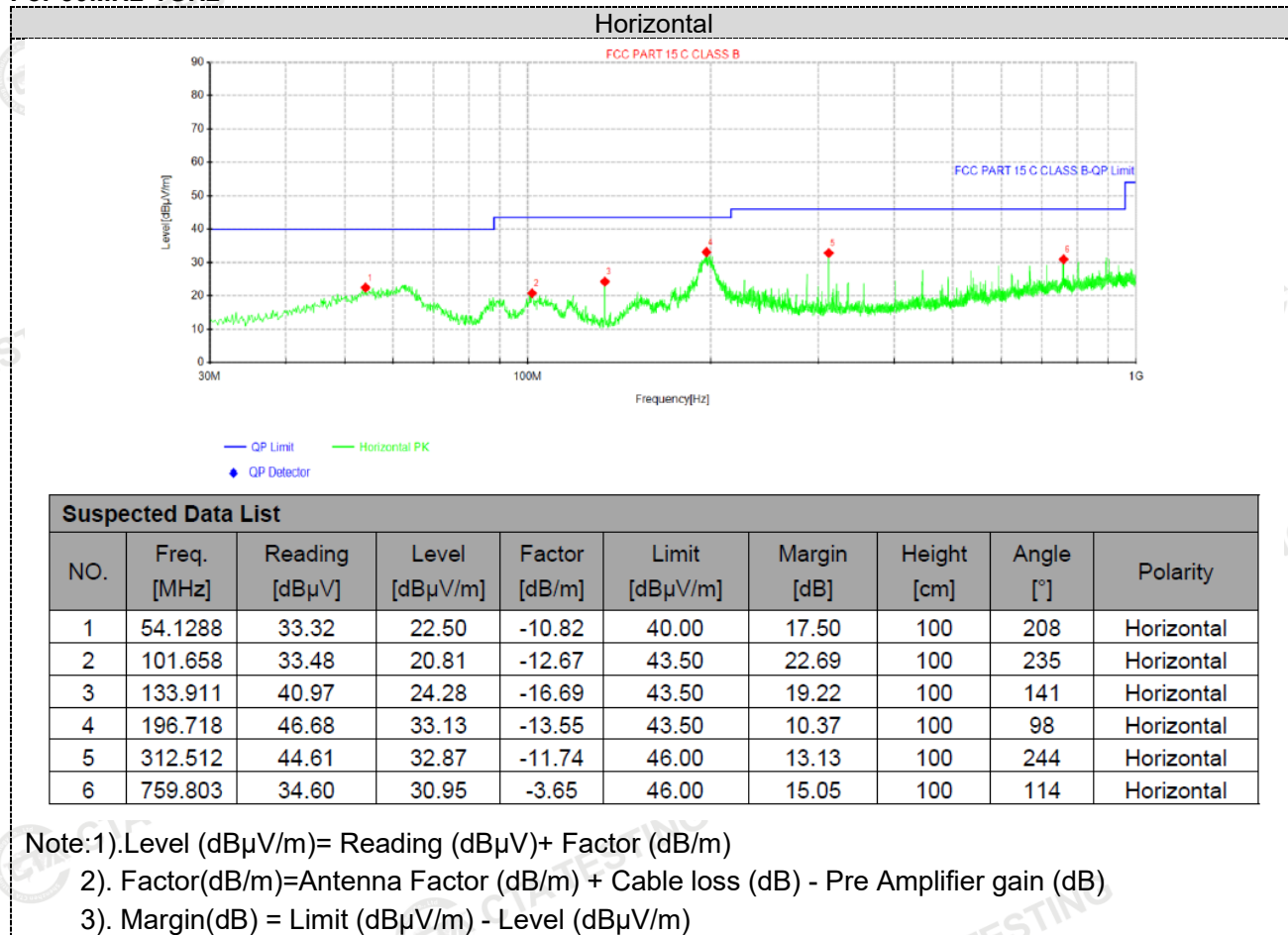
2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

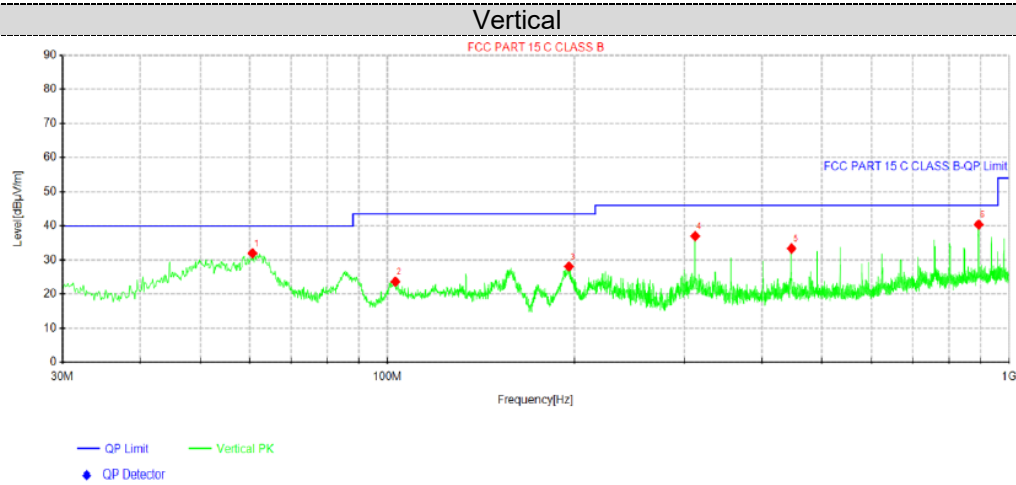
3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)



KI-D065L:

For 30MHz-1GHz



**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	60.6762	44.30	31.98	-12.32	40.00	8.02	100	158	Vertical
2	102.992	36.21	23.67	-12.54	43.50	19.83	100	0	Vertical
3	195.87	41.72	28.09	-13.63	43.50	15.41	100	290	Vertical
4	312.633	48.72	36.99	-11.73	46.00	9.01	100	229	Vertical
5	446.736	42.79	33.38	-9.41	46.00	12.62	100	238	Vertical
6	893.057	42.28	40.41	-1.87	46.00	5.59	100	176	Vertical

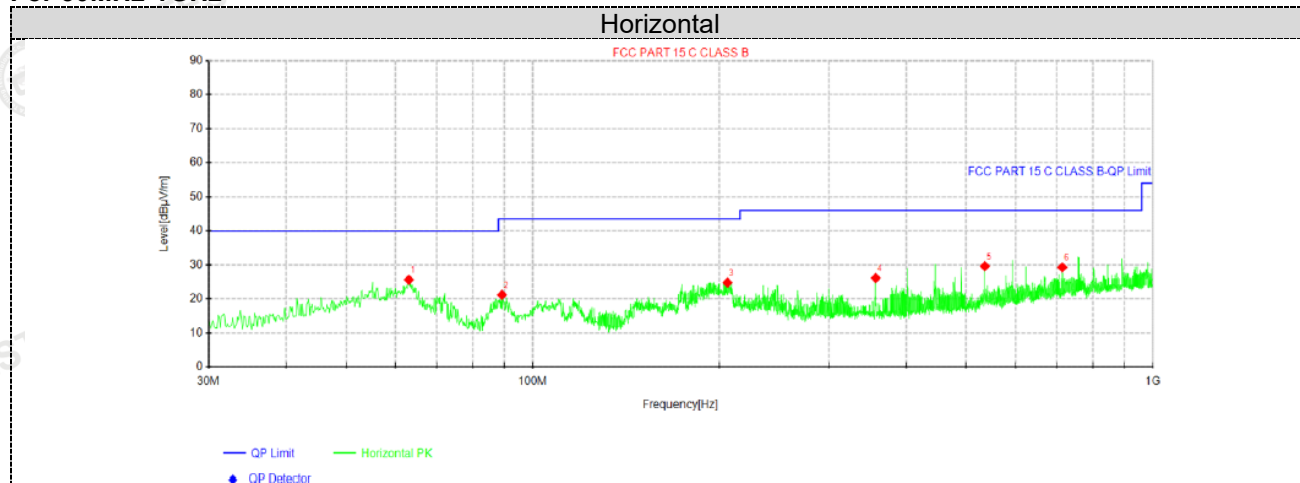
Note: 1). Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)

2). Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin (dB) = Limit (dBμV/m) - Level (dBμV/m)

KI-D075L:

For 30MHz-1GHz



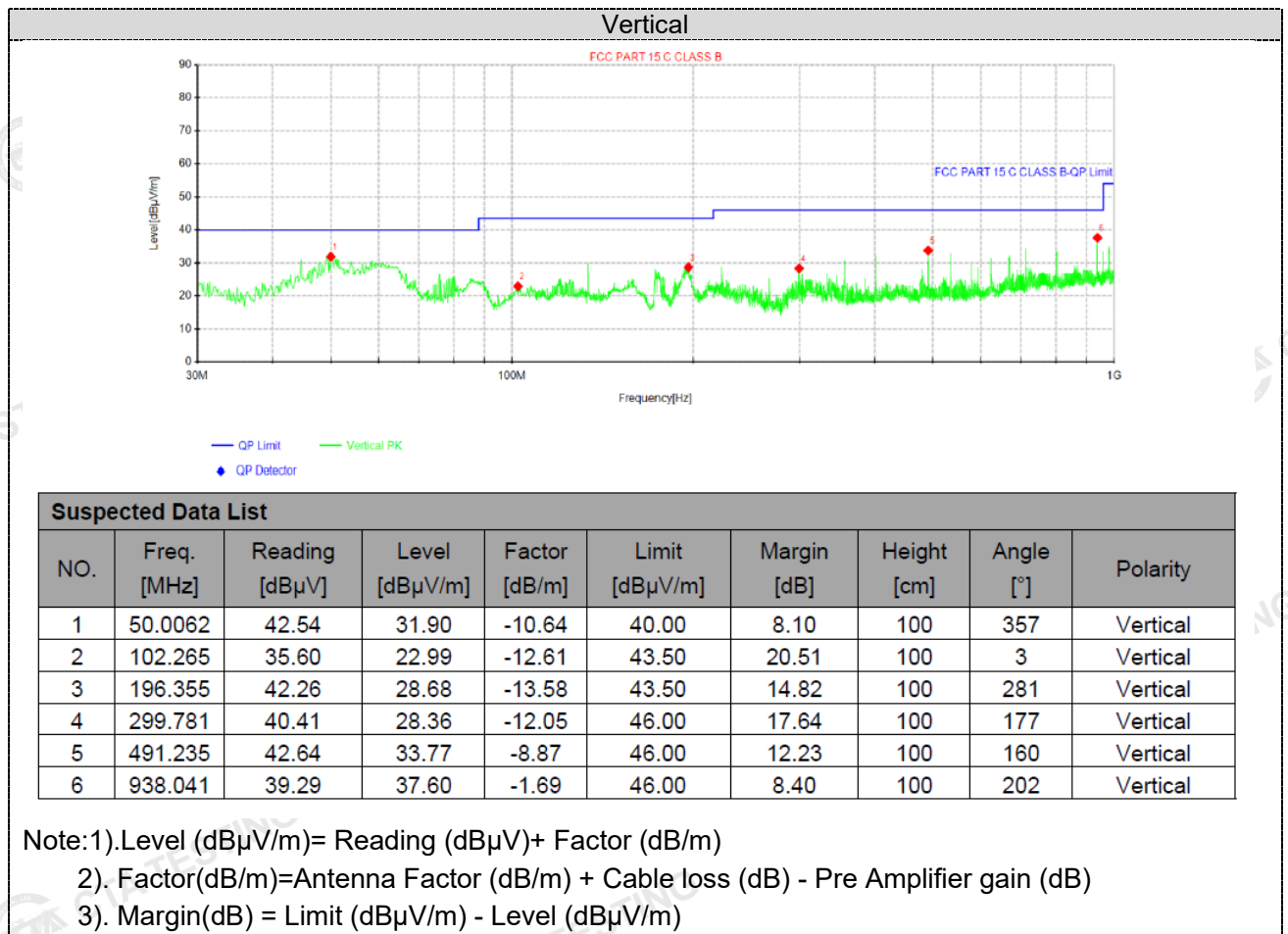
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.1012	38.19	25.64	-12.55	40.00	14.36	100	235	Horizontal
2	89.17	35.95	21.22	-14.73	43.50	22.28	100	252	Horizontal
3	206.055	38.31	24.81	-13.50	43.50	18.69	100	304	Horizontal
4	357.253	36.81	26.15	-10.66	46.00	19.85	100	261	Horizontal
5	535.855	37.76	29.61	-8.15	46.00	16.39	100	140	Horizontal
6	714.577	33.72	29.27	-4.45	46.00	16.73	100	149	Horizontal

Note:1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)



For 1GHz to 25GHz

KI-D086L:

GFSK (above 1GHz)

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	58.61	PK	74	15.39	73.39	33.52	5.70	54.00	-14.78
4804.00	46.80	AV	54	7.20	61.58	33.52	5.70	54.00	-14.78
7206.00	59.06	PK	74	14.94	69.49	36.34	6.95	53.72	-10.43
7206.00	50.49	AV	54	3.51	60.92	36.34	6.95	53.72	-10.43

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	60.00	PK	74	14.00	74.78	33.52	5.70	54.00	-14.78
4804.00	50.97	AV	54	3.03	65.75	33.52	5.70	54.00	-14.78
7206.00	59.46	PK	74	14.54	69.89	36.34	6.95	53.72	-10.43
7206.00	49.99	AV	54	4.01	60.42	36.34	6.95	53.72	-10.43

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	56.52	PK	74	17.48	71.08	33.76	5.76	54.08	-14.56
4880.00	50.03	AV	54	3.97	64.59	33.76	5.76	54.08	-14.56
7320.00	58.86	PK	74	15.14	68.88	36.66	6.99	53.67	-10.02
7320.00	50.48	AV	54	3.52	60.50	36.66	6.99	53.67	-10.02

Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	56.68	PK	74	17.32	71.24	33.76	5.76	54.08	-14.56
4880.00	52.44	AV	54	1.56	67.00	33.76	5.76	54.08	-14.56
7320.00	58.27	PK	74	15.73	68.29	36.66	6.99	53.67	-10.02
7320.00	50.07	AV	54	3.93	60.09	36.66	6.99	53.67	-10.02

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	58.79	PK	74	15.21	73.05	34.08	5.82	54.16	-14.26
4960.00	51.90	AV	54	2.10	66.16	34.08	5.82	54.16	-14.26
7440.00	60.46	PK	74	13.54	70.72	36.32	7.04	53.62	-10.26
7440.00	49.38	AV	54	4.62	59.64	36.32	7.04	53.62	-10.26

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	60.12	PK	74	13.88	74.38	34.08	5.82	54.16	-14.26
4960.00	47.25	AV	54	6.75	61.51	34.08	5.82	54.16	-14.26
7440.00	62.51	PK	74	11.49	72.77	36.32	7.04	53.62	-10.26
7440.00	49.98	AV	54	4.02	60.24	36.32	7.04	53.62	-10.26

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

KI-D055L:

GFSK (above 1GHz)

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	58.70	PK	74	15.30	73.48	33.52	5.70	54.00	-14.78
4804.00	50.03	AV	54	3.97	64.81	33.52	5.70	54.00	-14.78
7206.00	59.32	PK	74	14.68	69.75	36.34	6.95	53.72	-10.43
7206.00	49.82	AV	54	4.18	60.25	36.34	6.95	53.72	-10.43

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	58.59	PK	74	15.41	73.37	33.52	5.70	54.00	-14.78
4804.00	47.85	AV	54	6.15	62.63	33.52	5.70	54.00	-14.78
7206.00	59.96	PK	74	14.04	70.39	36.34	6.95	53.72	-10.43
7206.00	49.44	AV	54	4.56	59.87	36.34	6.95	53.72	-10.43

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	56.65	PK	74	17.35	71.21	33.76	5.76	54.08	-14.56
4880.00	50.35	AV	54	3.65	64.91	33.76	5.76	54.08	-14.56
7320.00	56.77	PK	74	17.23	66.79	36.66	6.99	53.67	-10.02
7320.00	50.85	AV	54	3.15	60.87	36.66	6.99	53.67	-10.02

Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	57.04	PK	74	16.96	71.60	33.76	5.76	54.08	-14.56
4880.00	48.40	AV	54	5.60	62.96	33.76	5.76	54.08	-14.56
7320.00	58.96	PK	74	15.04	68.98	36.66	6.99	53.67	-10.02
7320.00	50.08	AV	54	3.92	60.10	36.66	6.99	53.67	-10.02

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	60.11	PK	74	13.89	74.37	34.08	5.82	54.16	-14.26
4960.00	50.83	AV	54	3.17	65.09	34.08	5.82	54.16	-14.26
7440.00	59.22	PK	74	14.78	69.48	36.32	7.04	53.62	-10.26
7440.00	50.87	AV	54	3.13	61.13	36.32	7.04	53.62	-10.26

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	61.96	PK	74	12.04	76.22	34.08	5.82	54.16	-14.26
4960.00	48.58	AV	54	5.42	62.84	34.08	5.82	54.16	-14.26
7440.00	59.43	PK	74	14.57	69.69	36.32	7.04	53.62	-10.26
7440.00	50.10	AV	54	3.90	60.36	36.32	7.04	53.62	-10.26

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

KI-D065L:

GFSK (above 1GHz)

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	60.24	PK	74	13.76	75.02	33.52	5.70	54.00	-14.78
4804.00	48.31	AV	54	5.69	63.09	33.52	5.70	54.00	-14.78
7206.00	61.41	PK	74	12.59	71.84	36.34	6.95	53.72	-10.43
7206.00	50.21	AV	54	3.79	60.64	36.34	6.95	53.72	-10.43

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	59.57	PK	74	14.43	74.35	33.52	5.70	54.00	-14.78
4804.00	50.19	AV	54	3.81	64.97	33.52	5.70	54.00	-14.78
7206.00	59.07	PK	74	14.93	69.50	36.34	6.95	53.72	-10.43
7206.00	49.98	AV	54	4.02	60.41	36.34	6.95	53.72	-10.43

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	58.49	PK	74	15.51	73.05	33.76	5.76	54.08	-14.56
4880.00	48.42	AV	54	5.58	62.98	33.76	5.76	54.08	-14.56
7320.00	56.79	PK	74	17.21	66.81	36.66	6.99	53.67	-10.02
7320.00	47.91	AV	54	6.09	57.93	36.66	6.99	53.67	-10.02

Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	58.32	PK	74	15.68	72.88	33.76	5.76	54.08	-14.56
4880.00	51.02	AV	54	2.98	65.58	33.76	5.76	54.08	-14.56
7320.00	56.76	PK	74	17.24	66.78	36.66	6.99	53.67	-10.02
7320.00	50.13	AV	54	3.87	60.15	36.66	6.99	53.67	-10.02

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	57.01	PK	74	16.99	71.27	34.08	5.82	54.16	-14.26
4960.00	48.09	AV	54	5.91	62.35	34.08	5.82	54.16	-14.26
7440.00	61.76	PK	74	12.24	72.02	36.32	7.04	53.62	-10.26
7440.00	50.19	AV	54	3.81	60.45	36.32	7.04	53.62	-10.26

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	61.56	PK	74	12.44	75.82	34.08	5.82	54.16	-14.26
4960.00	51.87	AV	54	2.13	66.13	34.08	5.82	54.16	-14.26
7440.00	63.65	PK	74	10.35	73.91	36.32	7.04	53.62	-10.26
7440.00	49.34	AV	54	4.66	59.60	36.32	7.04	53.62	-10.26

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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

KI-D075L:

GFSK (above 1GHz)

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	59.47	PK	74	14.53	74.25	33.52	5.70	54.00	-14.78
4804.00	47.30	AV	54	6.70	62.08	33.52	5.70	54.00	-14.78
7206.00	61.42	PK	74	12.58	71.85	36.34	6.95	53.72	-10.43
7206.00	53.10	AV	54	0.90	63.53	36.34	6.95	53.72	-10.43

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4804.00	59.02	PK	74	14.98	73.80	33.52	5.70	54.00	-14.78
4804.00	47.95	AV	54	6.05	62.73	33.52	5.70	54.00	-14.78
7206.00	59.46	PK	74	14.54	69.89	36.34	6.95	53.72	-10.43
7206.00	48.98	AV	54	5.02	59.41	36.34	6.95	53.72	-10.43

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	57.13	PK	74	16.87	71.69	33.76	5.76	54.08	-14.56
4880.00	46.99	AV	54	7.01	61.55	33.76	5.76	54.08	-14.56
7320.00	59.01	PK	74	14.99	69.03	36.66	6.99	53.67	-10.02
7320.00	48.46	AV	54	5.54	58.48	36.66	6.99	53.67	-10.02

Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4880.00	57.17	PK	74	16.83	71.73	33.76	5.76	54.08	-14.56
4880.00	49.19	AV	54	4.81	63.75	33.76	5.76	54.08	-14.56
7320.00	58.86	PK	74	15.14	68.88	36.66	6.99	53.67	-10.02
7320.00	48.44	AV	54	5.56	58.46	36.66	6.99	53.67	-10.02

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	60.21	PK	74	13.79	74.47	34.08	5.82	54.16	-14.26
4960.00	48.10	AV	54	5.90	62.36	34.08	5.82	54.16	-14.26
7440.00	59.66	PK	74	14.34	69.92	36.32	7.04	53.62	-10.26
7440.00	51.30	AV	54	2.70	61.56	36.32	7.04	53.62	-10.26

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4960.00	60.57	PK	74	13.43	74.83	34.08	5.82	54.16	-14.26
4960.00	48.57	AV	54	5.43	62.83	34.08	5.82	54.16	-14.26
7440.00	62.29	PK	74	11.71	72.55	36.32	7.04	53.62	-10.26
7440.00	49.15	AV	54	4.85	59.41	36.32	7.04	53.62	-10.26

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier
3. Margin value = Limit value - Emission level.
4. The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

KI-D086L:

GFSK

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	49.64	PK	74	24.36	71.13	28.02	4.33	53.84	-21.49
2390	37.17	AV	54	16.83	58.66	28.02	4.33	53.84	-21.49
2400	50.00	PK	74	24.00	71.51	28.00	4.33	53.84	-21.51
2400	37.59	AV	54	16.41	59.10	28.00	4.33	53.84	-21.51
Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	50.23	PK	74	23.77	71.72	28.02	4.33	53.84	-21.49
2390	36.99	AV	54	17.01	58.48	28.02	4.33	53.84	-21.49
2400	49.93	PK	74	24.07	71.44	28.00	4.33	53.84	-21.51
2400	37.15	AV	54	16.85	58.66	28.00	4.33	53.84	-21.51
Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	50.43	PK	74	23.57	71.57	28.34	4.33	53.81	-21.14
2483.5	38.32	AV	54	15.68	59.46	28.34	4.33	53.81	-21.14
Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	48.98	PK	74	25.02	70.12	28.34	4.33	53.81	-21.14
2483.5	36.39	AV	54	17.61	57.53	28.34	4.33	53.81	-21.14

KI-D055L:

GFSK

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	48.41	PK	74	25.59	69.90	28.02	4.33	53.84	-21.49
2390	38.30	AV	54	15.70	59.79	28.02	4.33	53.84	-21.49
2400	51.66	PK	74	22.34	73.17	28.00	4.33	53.84	-21.51
2400	39.26	AV	54	14.74	60.77	28.00	4.33	53.84	-21.51
Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	48.69	PK	74	25.31	70.18	28.02	4.33	53.84	-21.49
2390	36.86	AV	54	17.14	58.35	28.02	4.33	53.84	-21.49
2400	50.43	PK	74	23.57	71.94	28.00	4.33	53.84	-21.51
2400	37.82	AV	54	16.18	59.33	28.00	4.33	53.84	-21.51
Frequency(MHz):			2480		Polarity:		HORIZONTAL		

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	48.63	PK	74	25.37	69.77	28.34	4.33	53.81	-21.14
2483.5	37.21	AV	54	16.79	58.35	28.34	4.33	53.81	-21.14
Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	48.30	PK	74	25.70	69.44	28.34	4.33	53.81	-21.14
2483.5	38.03	AV	54	15.97	59.17	28.34	4.33	53.81	-21.14

KI-D065L:

GFSK

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	49.32	PK	74	24.68	70.81	28.02	4.33	53.84	-21.49
2390	38.39	AV	54	15.61	59.88	28.02	4.33	53.84	-21.49
2400	51.45	PK	74	22.55	72.96	28.00	4.33	53.84	-21.51
2400	38.65	AV	54	15.35	60.16	28.00	4.33	53.84	-21.51
Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	48.09	PK	74	25.91	69.58	28.02	4.33	53.84	-21.49
2390	38.49	AV	54	15.51	59.98	28.02	4.33	53.84	-21.49
2400	50.19	PK	74	23.81	71.70	28.00	4.33	53.84	-21.51
2400	36.20	AV	54	17.80	57.71	28.00	4.33	53.84	-21.51
Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	49.19	PK	74	24.81	70.33	28.34	4.33	53.81	-21.14
2483.5	37.27	AV	54	16.73	58.41	28.34	4.33	53.81	-21.14
Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	48.62	PK	74	25.38	69.76	28.34	4.33	53.81	-21.14
2483.5	38.54	AV	54	15.46	59.68	28.34	4.33	53.81	-21.14

KI-D075L:

GFSK

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	49.33	PK	74	24.67	70.82	28.02	4.33	53.84	-21.49
2390	37.40	AV	54	16.60	58.89	28.02	4.33	53.84	-21.49
2400	50.82	PK	74	23.18	72.33	28.00	4.33	53.84	-21.51
2400	36.84	AV	54	17.16	58.35	28.00	4.33	53.84	-21.51
Frequency(MHz):			2402		Polarity:		VERTICAL		

Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390	50.03	PK	74	23.97	71.52	28.02	4.33	53.84	-21.49
2390	36.61	AV	54	17.39	58.10	28.02	4.33	53.84	-21.49
2400	48.15	PK	74	25.85	69.66	28.00	4.33	53.84	-21.51
2400	37.85	AV	54	16.15	59.36	28.00	4.33	53.84	-21.51
Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	50.36	PK	74	23.64	71.50	28.34	4.33	53.81	-21.14
2483.5	37.36	AV	54	16.64	58.50	28.34	4.33	53.81	-21.14
Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.5	50.55	PK	74	23.45	71.69	28.34	4.33	53.81	-21.14
2483.5	37.20	AV	54	16.80	58.34	28.34	4.33	53.81	-21.14

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier
3. Margin value = Limit value - Emission level.
4. The other emission levels were very low against the limit.

4.3 Maximum Peak Output Power

Limit

The Maximum Peak Output Power Measurement is 30dBm.

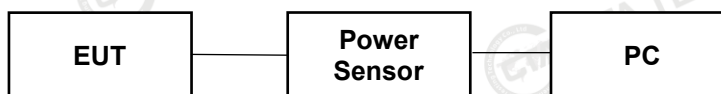
Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Method PM is Measurement using an RF Peak power sensor. The procedure for this method is as follows:

1. The testing follows the ANSI C63.10 Section 11.9.1.2
2. The maximum peak conducted output power may be measured using a broadband peak RF power sensor.
3. The power sensor shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

Test Configuration



Test Results

Please refer to FCC Appendix RF Test Data for BLE

Note: 1.The test results including the cable loss.

4.4 Power Spectral Density

Limit

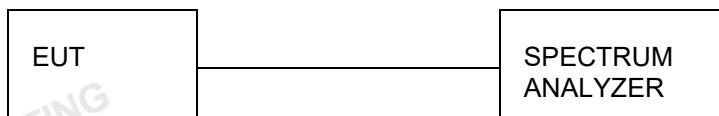
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

The testing follows the ANSI C63.10 2020 section 11.10.2:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span >1.5 times the DTS bandwidth.
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = No faster than coupled (auto) time.
- g) Trace mode = max-hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Test Configuration



Test Results

Please refer to FCC Appendix RF Test Data for BLE

4.5 6dB Bandwidth

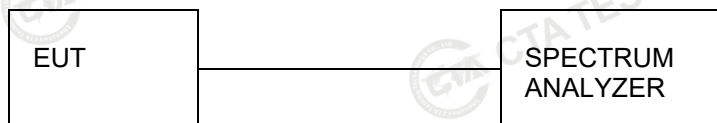
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.

Test Configuration



Test Results

Please refer to FCC Appendix RF Test Data for BLE

4.6 Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

The testing follows the ANSI C63.10 Section 11.11.2 and 11.11.3 and 6.10.4:

●Reference level measurement

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
 - Set the span to ≥ 1.5 times the DTS bandwidth.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = auto couple.
 - Trace mode = max hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum PSD level.
- Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

●Emission level measurement

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data.

Please refer to FCC Appendix RF Test Data for BLE

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

4.7 Antenna Requirement

Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The PCB Antenna maximum gain of antenna was 0.90 dBi.

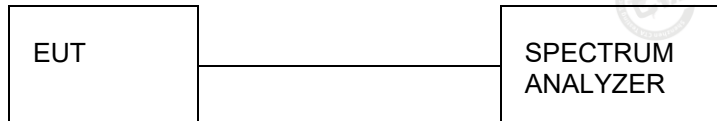
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen CTA Testing Technology Co., Ltd. does not assume any responsibility.

4.8 On Time and Duty Cycle

Standard Applicable

None; for reporting purpose only.

TEST CONFIGURATION



Test Procedures

- 1). Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
- 2). Set the span=0MHz, RBW=8MHz, VBW=8MHz, Sweep time=Auto;
- 3). Detector = peak;
- 4). Trace mode = Single hold.

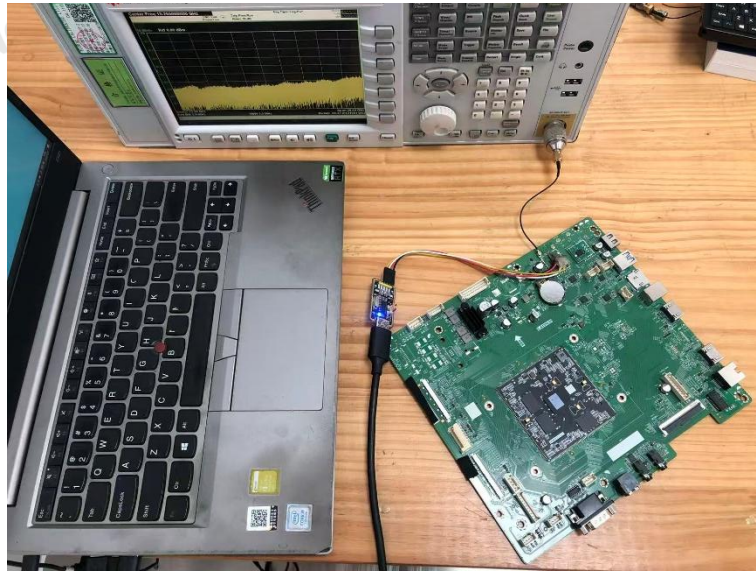
Please refer to FCC Appendix RF Test Data for BLE

5 Test Setup Photos of the EUT



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn



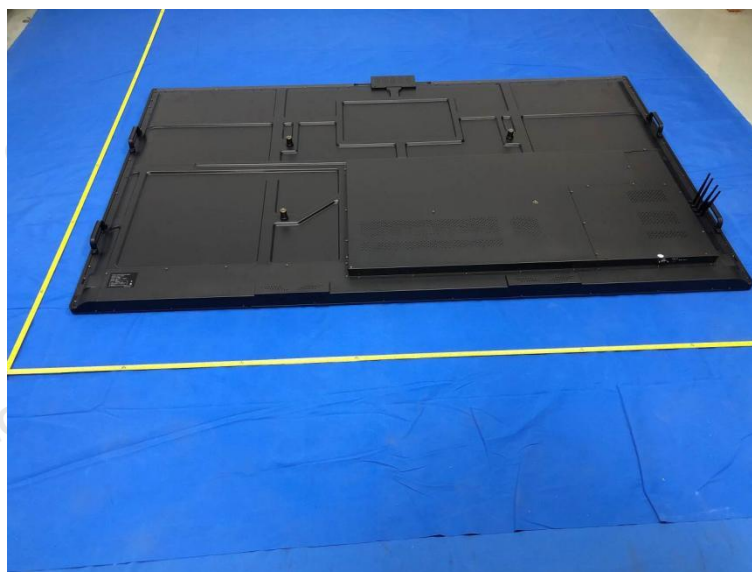
6 Photos of the EUT

KI-D086L



Shenzhen CTA Testing Technology Co., Ltd.

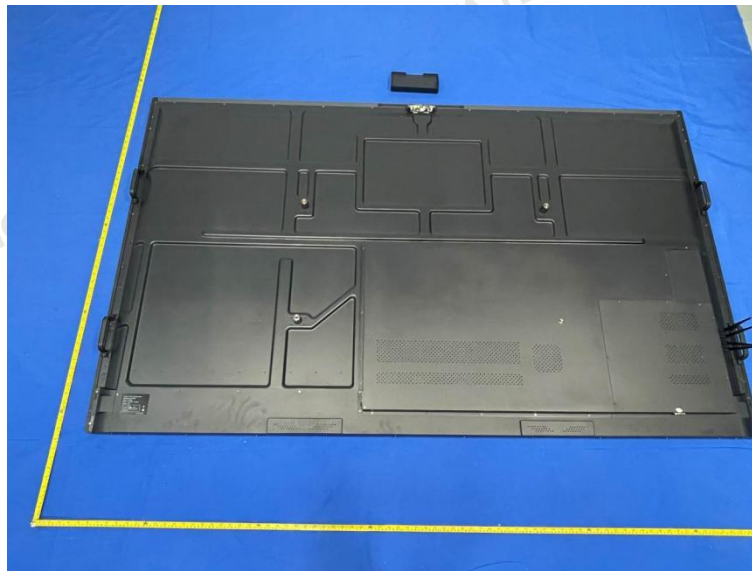
Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: <http://www.cta-test.cn>

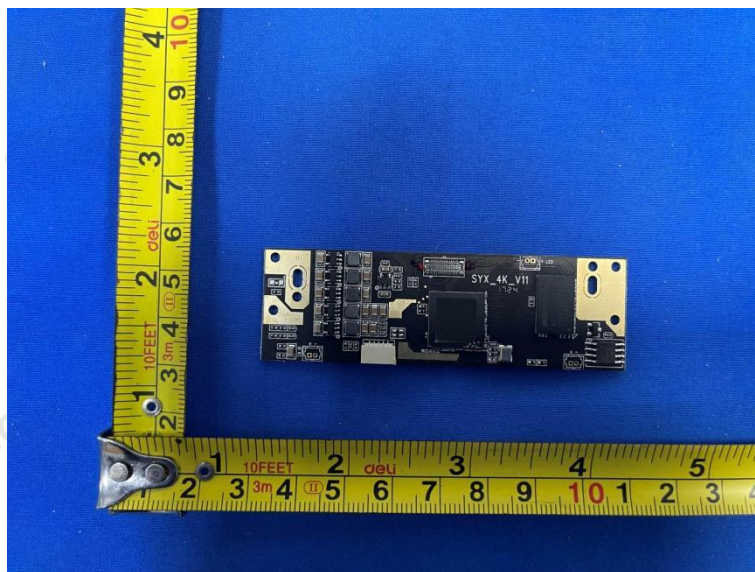
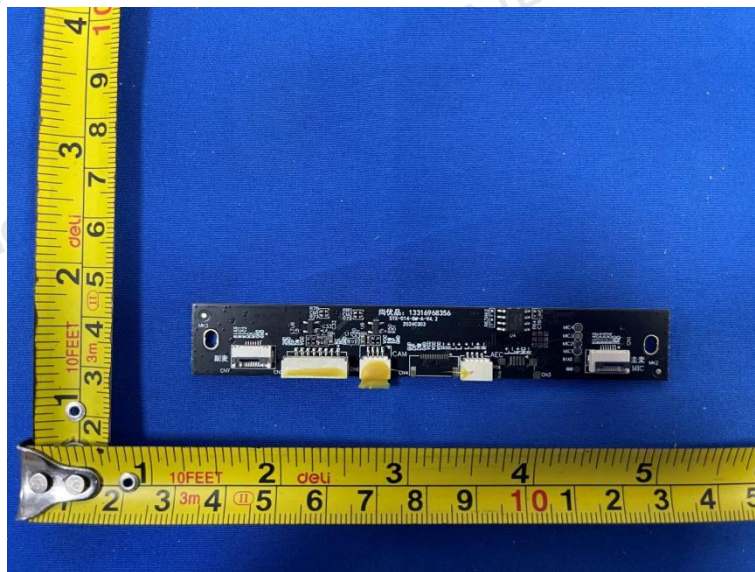
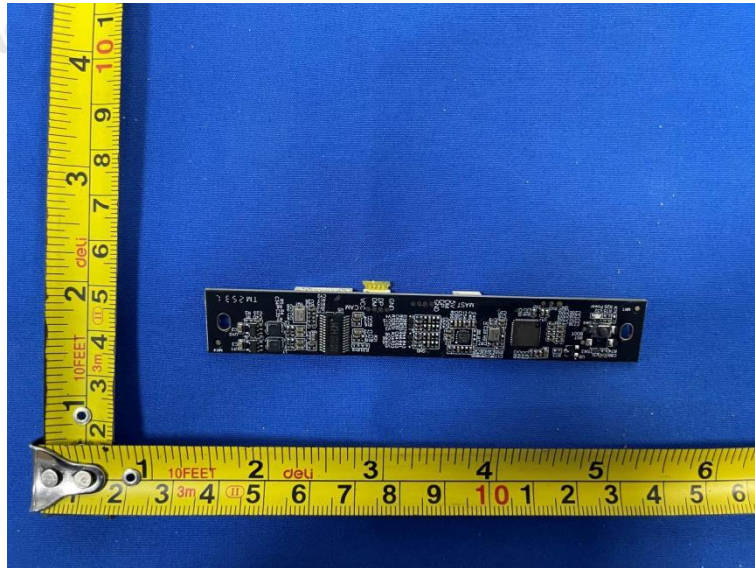




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Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China
Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

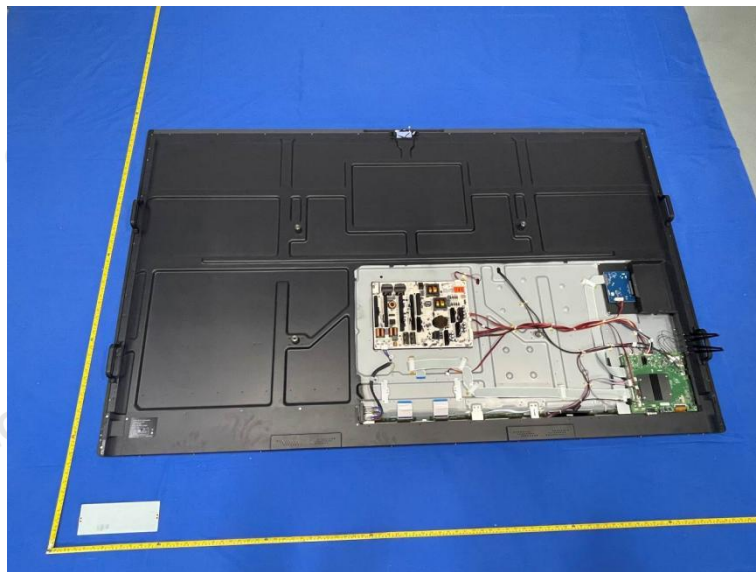
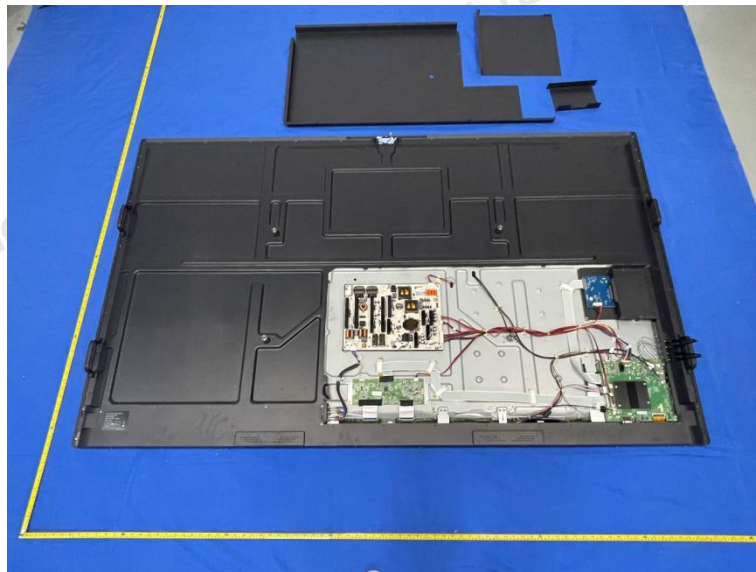
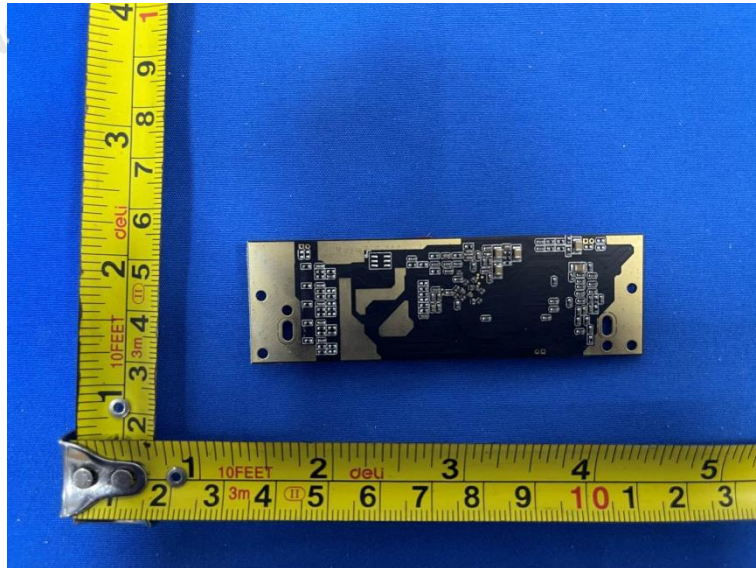




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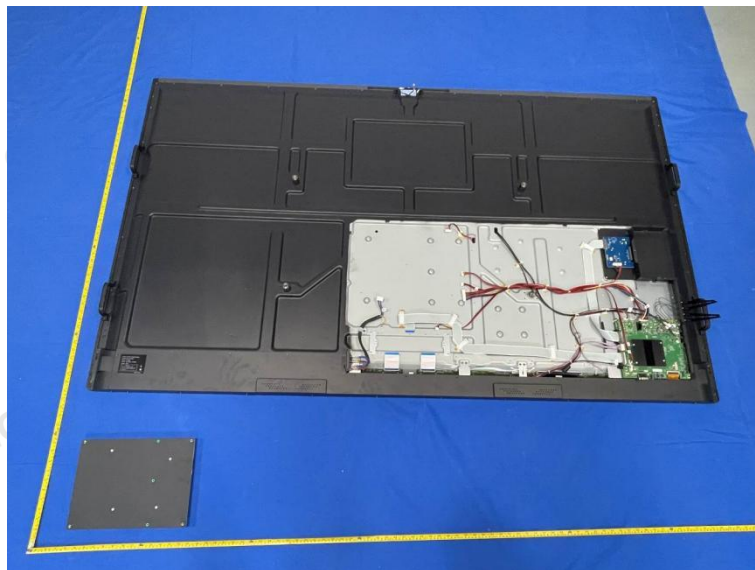
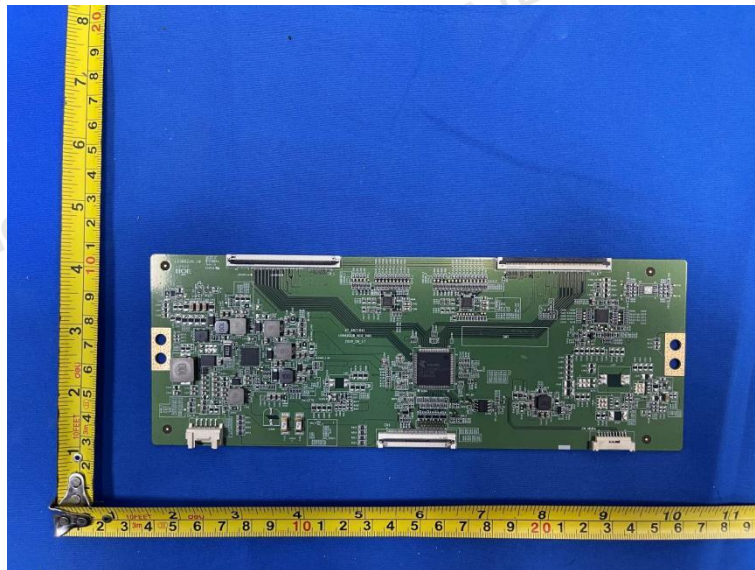
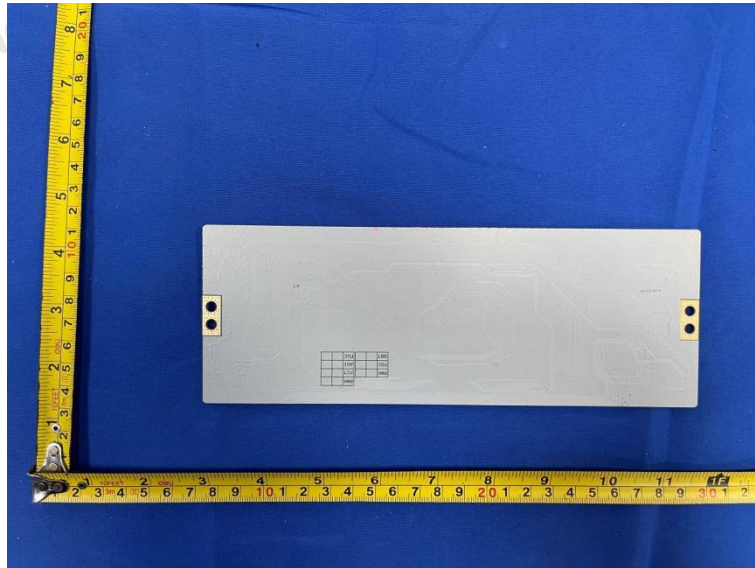
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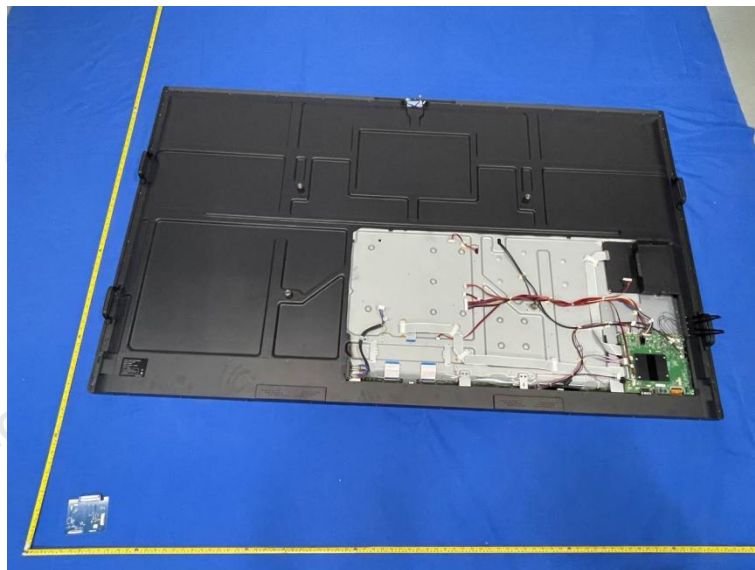
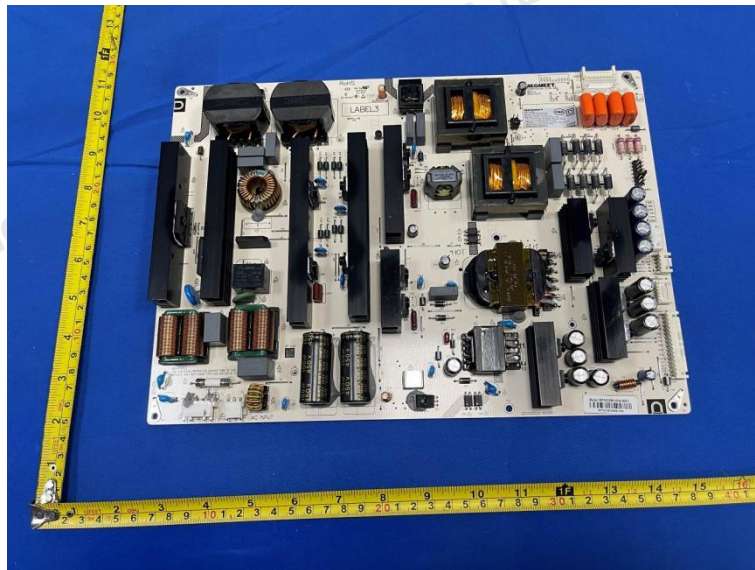
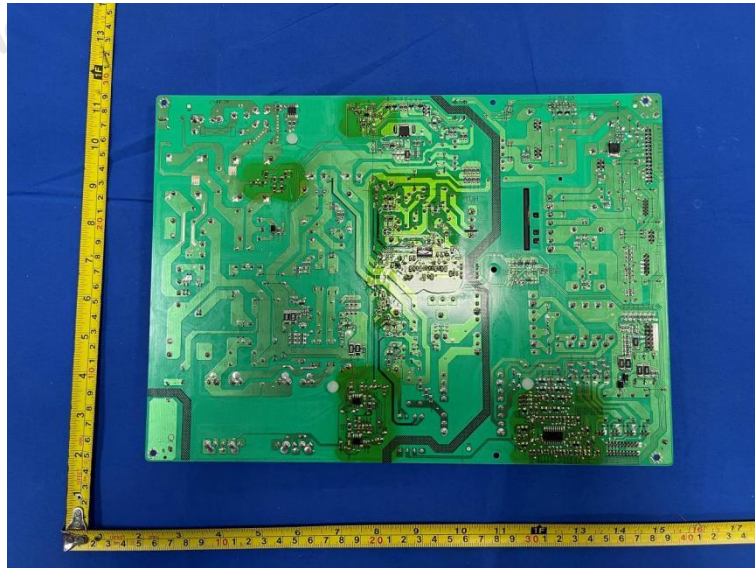
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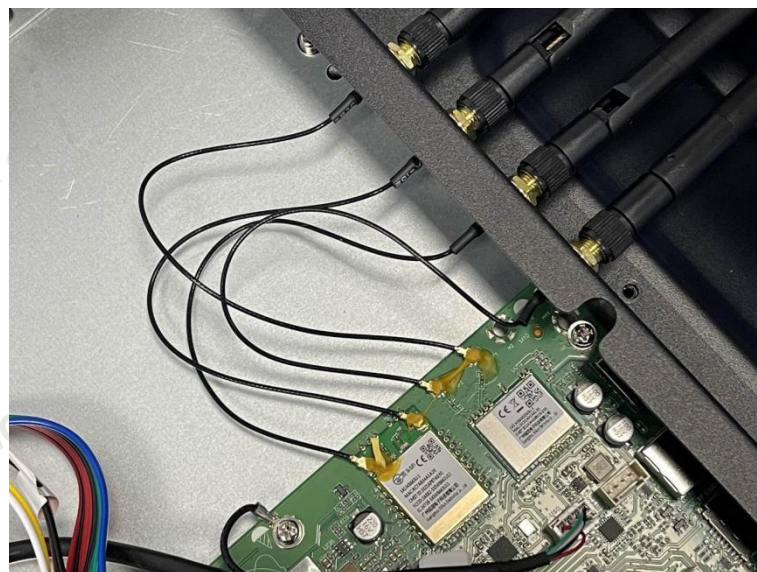
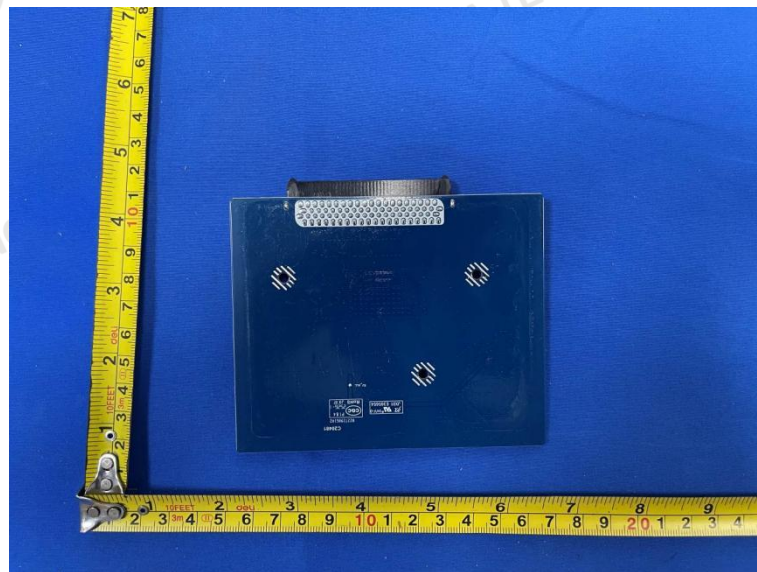
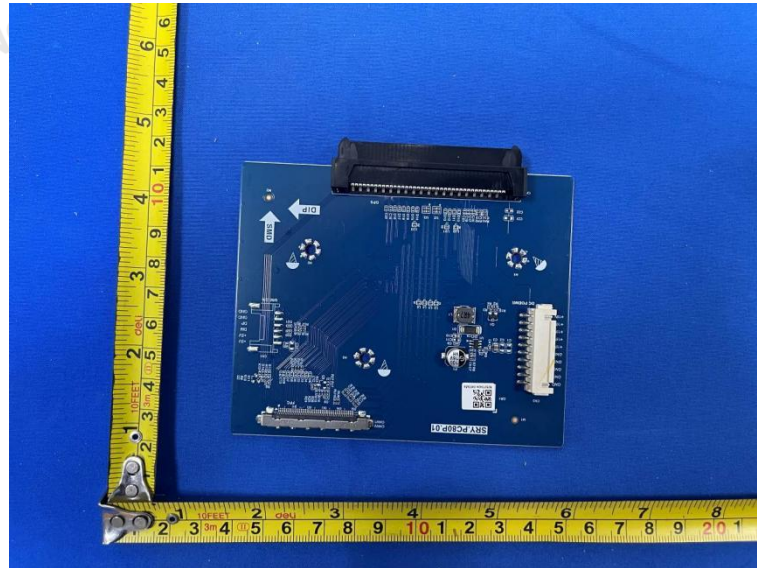
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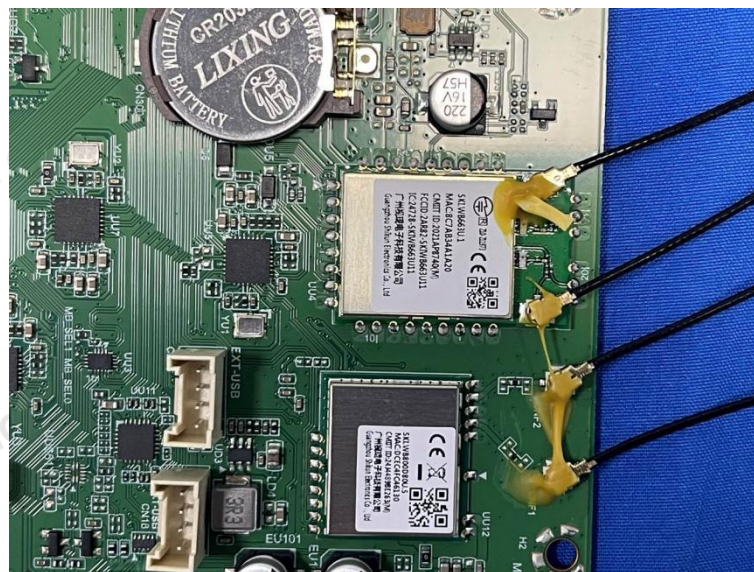
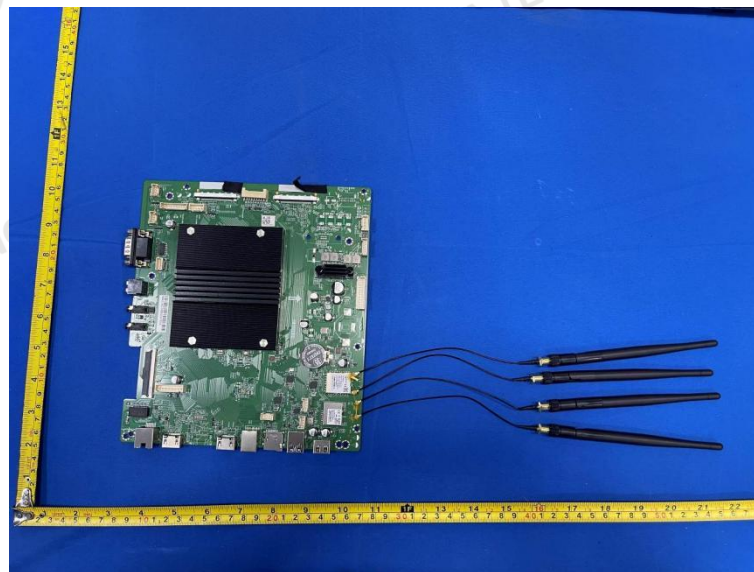
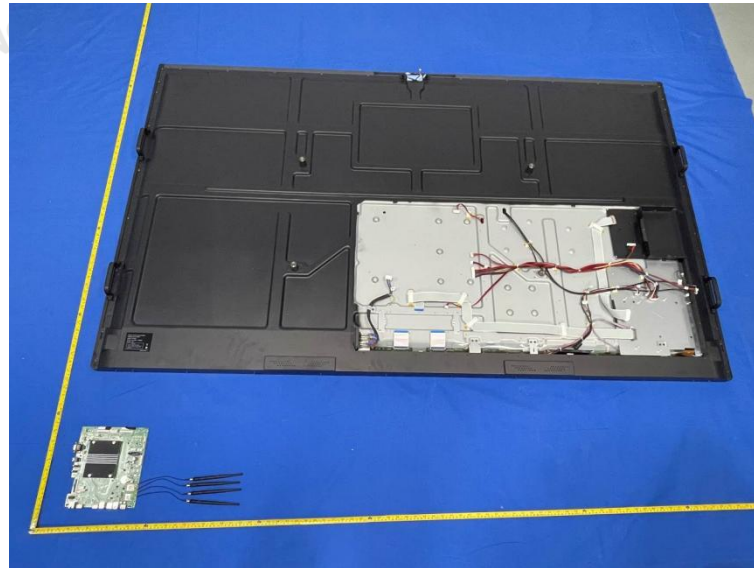


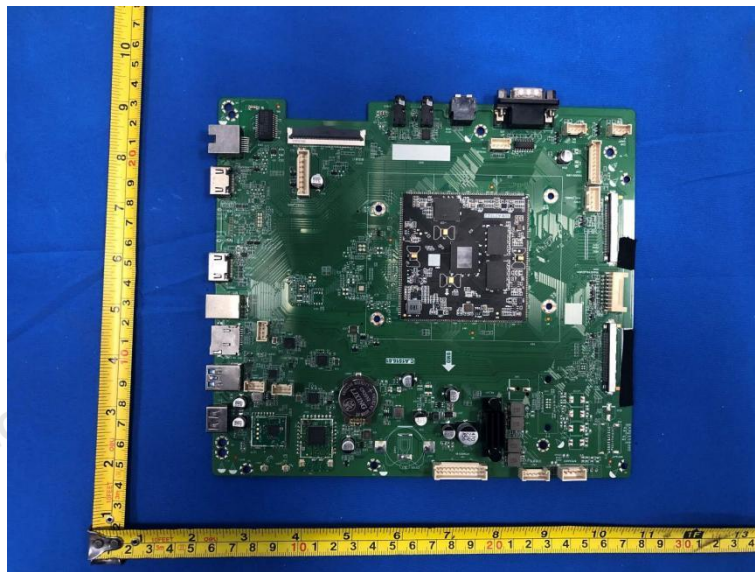
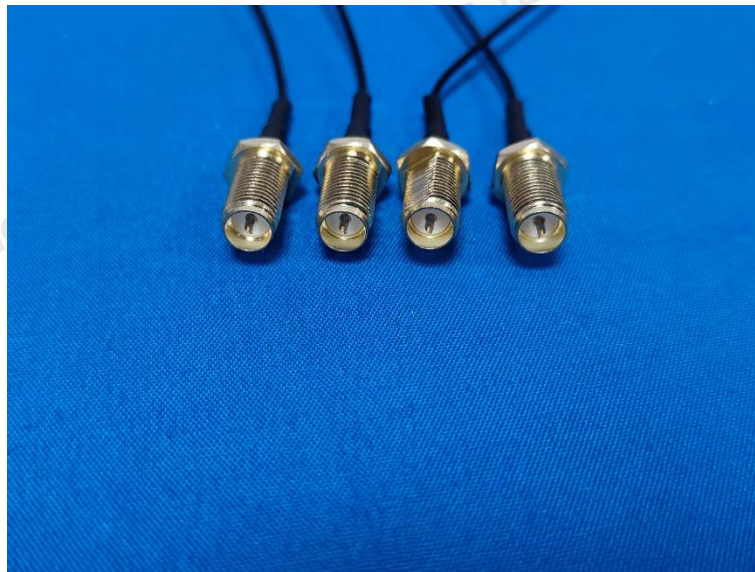
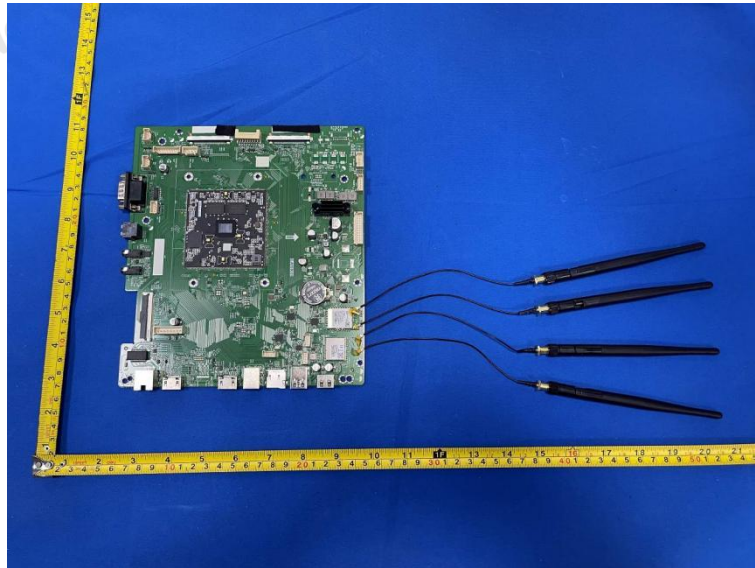
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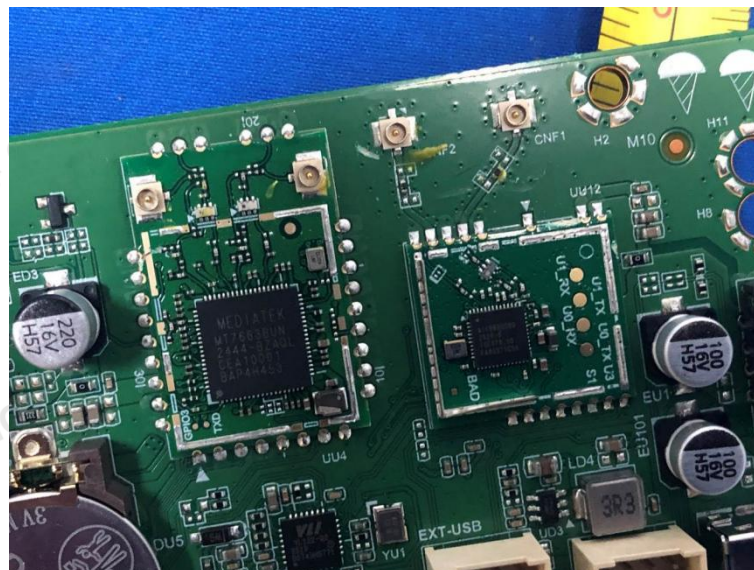
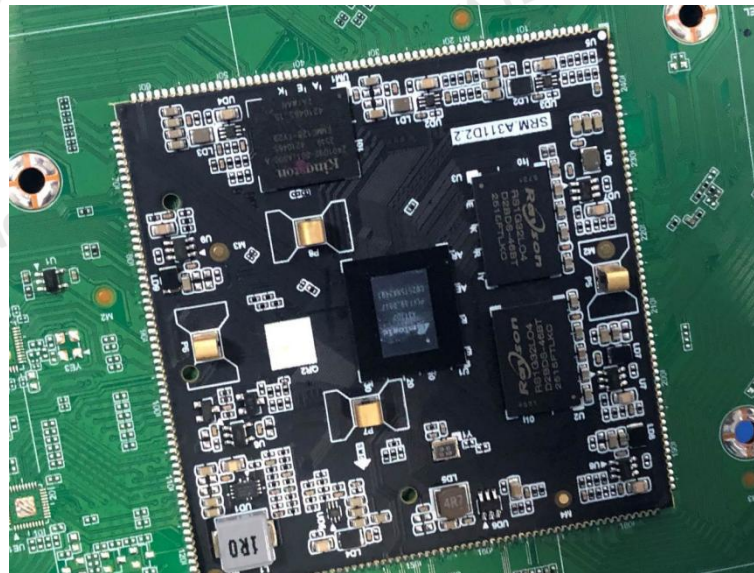
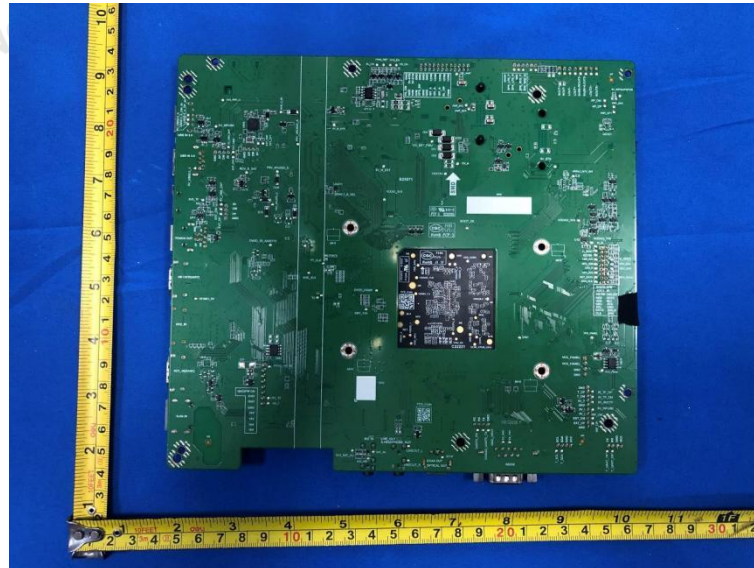






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