

**Shenzhen Global Test Service Co.,Ltd.**

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No......: **GTS20260316016-1-11****FCC ID**.....: **2AYD5-I26K01**

Compiled by

(position+printed name+signature)...: File administrators Peter Xiao

Supervised by

(position+printed name+signature)...: Test Engineer Evan Ouyang



Approved by

(position+printed name+signature)...: Manager Jason Hu

Date of issue.....: Jul.29, 2026

Representative Laboratory Name.: **Shenzhen Global Test Service Co.,Ltd.**

Address: Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

Applicant's name.....: **Imin Technology Pte Ltd**

Address: 11 Bishan Street 21 #03-05 Singapore 573943

Test specificationStandard: **FCC Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF.....: Dated 2014-12

Shenzhen Global Test Service Co.,Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: **Touch All-in-One Computer, Kitchen Display Terminal, POS Device**

Trade Mark:

Manufacturer: Imin Technology Pte Ltd

Model/Type reference: I26K01

List Models: I26K02

Modulation Type.....: GFSK, $\pi/4$ -DQPSK, 8DPSK

Operation Frequency.....: From 2402MHz to 2480MHz

Hardware Version: N/A

Software Version: N/A

Rating: PoE++(IEEE 802.3bt), DC 42-57V, 60W Max OR
DC 24V/2.5A by AdapterResult: **PASS**

TEST REPORT

Test Report No. :	GTS20260316016-1-11	Jul.29, 2026
		Date of issue

Equipment under Test : Touch All-in-One Computer, Kitchen Display Terminal, POS Device

Model /Type : I26K01

Listed model : I26K02

Applicant : Imin Technology Pte Ltd

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Manufacturer : Imin Technology Pte Ltd

Address : 11 Bishan Street 21 #03-05 Singapore 573943

Test Result:	PASS
--------------	------

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.

Contents

1. TEST STANDARDS	4
2. SUMMARY	5
2.1. General Remarks	5
2.2. Product Description	5
2.3. Equipment Under Test	7
2.4. Short description of the Equipment under Test (EUT)	7
2.5. EUT operation mode	7
2.6. Block Diagram of Test Setup	8
2.7. Related Submittal(s) / Grant (s)	8
2.8. EUT Exercise Software	8
2.9. Special Accessories	8
2.10. External I/O Cable	8
2.11. Modifications	8
3. TEST ENVIRONMENT	9
3.1. Address of the test laboratory	9
3.2. Test Facility	9
3.3. Environmental conditions	9
3.4. Statement of the measurement uncertainty	9
3.5. Summary of measurement results	10
3.6. Equipments Used during the Test.....	11
4. TEST CONDITIONS AND RESULTS	12
4.1. AC Power Conducted Emission	12
4.2. Radiated Emission	19
4.3. Maximum Peak Output Power	32
4.4. 99% and 20dB Bandwidth	33
4.5. Frequency Separation	34
4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission.....	35
4.7. Number of hopping frequency	37
4.8. Time Of Occupancy(Dwell Time)	38
4.9. Pseudorandom Frequency Hopping Sequence	39
4.10. Antenna Requirement	40
5. TEST SETUP PHOTOS OF THE EUT	41
6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	43
6.1. External photos of the EUT	43
6.2. Internal photos of the EUT	59

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

[KDB 558074 D01 15.247 Meas Guidance v05r02](#): Digital Transmission Systems (DTS) and Frequency Hopping measurement procedures

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Jul.10, 2026
	:	
Testing commenced on	:	Jul.10, 2026
	:	
Testing concluded on	:	Jul.28, 2026

2.2. Product Description

Product Name:	Touch All-in-One Computer, Kitchen Display Terminal, POS Device
Trade Mark:	
Model/Type reference:	I26K01
List Model:	I26K02
Model Declaration	PCB board, structure and internal of these model(s) are the same, It was merely a matter of model naming, differences in product size and antenna design. Tests were conducted to address the various differences.
Power supply:	PoE++(IEEE 802.3bt), DC 42-57V, 60W Max OR DC 24V/2.5A by Adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20260316016-1-S001-1#>S20260316016-1-S001-2#& GTS20260316016-1-S001-3#>S20260316016-1-S001-4#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz IEEE 802.11ax HE20:2412-2462MHz IEEE 802.11ax HE40:2422-2452MHz
WLAN Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20) 7 Channel for IEEE 802.11n/ax (HT40)
Channel separation:	5MHz
WIFI(5.2G/5.3G/5.7G/5.8G Band)	

WLAN Operation frequency	5180-5250MHz/ 5250MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz
WLAN Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11acVHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11acVHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11acVHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5775MHz)
Antenna Description	I26K01:Internal Antenna, 2.28dBi(Max.) for 2.4G Band and 3.55dBi(Max.) for 5G Band I26K02:Internal Antenna, 2.56dBi(Max.) for 2.4G Band and 0.55dBi(Max.) for 5G Band Note: Antenna port measurement pre-scan all models and recorded worst case at model: I26K01;
Remark: Both the I26K01 model and the I26K02 model have two versions. The only difference between the two versions lies in whether there is PoE power supply; Version A: Support PoE power supply, and DC adapter is not provided; Version B: Does not support PoE power supply, and DC adapter is provided.	

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐	230V / 50 Hz	☐	120V / 60Hz
		☐	12 V DC	☒	24 V DC
		☒	Other (specified in blank below)		

DC 24.0V or DC 55.0V

Pre-test at both voltage DC 24V and DC 55.0V, but we only recorded the worst case in this report.(DC 24V to Adapter)

2.4. Short description of the Equipment under Test (EUT)

This is a Touch All-in-One Computer, Kitchen Display Terminal, POS Device .

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

2.5. 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 79 channels provided to the EUT. Channel 00/39/78 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
(BDR/EDR)	2402	1/2/3
	2441	1/2/3
	2480	1/2/3
For Conducted Emission		
Test Mode	TX Mode	
For Radiated Emission		
Test Mode	TX Mode	

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	40	2442
01	2403	41	2443
02	2404	42	2444
--	--	--	--
--	--	--	--
38	2440	78	2480
39	2441		

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case(AC 120V/60Hz).

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be TX (1Mbps).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-MCH).

2.6. Block Diagram of Test Setup



2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-I26K01** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8. EUT Exercise Software

The system enters the engineering mode through the instructions provided by the application (QDART-Connectivity1.0-00094), tests under continuous transmission conditions, and changes the test channel.

2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN HONOR ELECTRONIC CO.,LTD.	Adapter	ADS-65HI-19A-124060F	--	SDOC
Jiangsu Chenyang Electron Co.,Ltd.	Adapter	CYSE65-240250	--	SDOC
LIANGUO	PoE Injector	LG-BTG-N601(2.5G)	--	SDOC
LENOVO	PC	DESKYOP-EUIVCNR	--	SDOC

Note: The PoE Injector and PC is only used for auxiliary testing.

2.10. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
USB Port	1	N/A
Type-C Port	1	N/A
RJ45 Port	1	Non-Shielded, 1.0m

2.11. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China.

3.2. Test Facility

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

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1401.

FCC Registered Test Site Number is 684561.

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. 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 CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service 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 GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

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

3.5. Summary of measurement results

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.247(b)(1)	Maximum Conducted Output Power	GTS20260316016-1-S001-1# GTS20260316016-1-S001-2#	Compliant	Appendix A
§15.247(c)	Frequency Separation	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.247(c)	99% and 20 dB Bandwidth	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.247(a)(1)(ii)	Number of Hopping Frequency	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20260316016-1-S001-1# GTS20260316016-1-S001-2# GTS20260316016-1-S001-3# GTS20260316016-1-S001-4#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20260316016-1-S001-1#	Compliant	Appendix A
§15.207(a)	AC Conducted Emissions	GTS20260316016-1-S001-1# GTS20260316016-1-S001-2# GTS20260316016-1-S001-3# GTS20260316016-1-S001-4#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20260316016-1-S001-1#	Compliant	Note 1
§15.247(i)§2.109 1	RF Exposure	/	Compliant	Note 2

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (MPE Report).
5. We tested all test mode and recorded worst case in report.

3.6. Equipments Used during the Test

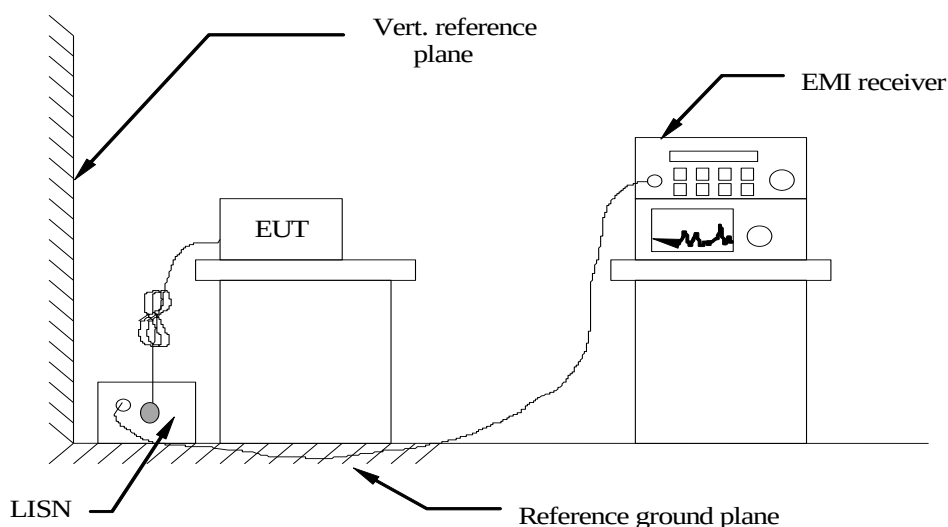
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Artificial Mains	CYBERTEK	EM5040A	E1850400205	2026/06/11	2027/06/10
LISN	R&S	ESH2-Z5	893606/008	2026/06/11	2027/06/10
EMI Test Receiver	R&S	ESPI 3	/	2026/07/04	2027/07/03
Test Receiver	R&S	ESCI 7	101102	2026/07/04	2027/07/03
Spectrum Analyzer	Agilent	N9020A	MY48010425	2026/06/12	2027/06/11
Spectrum Analyzer	R&S	FSV40-N	101800	2026/06/12	2027/06/11
Vector Signal generator	Agilent	N5181A	MY49060502	2026/06/11	2027/06/10
Signal generator	Agilent	N5182A	MY50141550	2026/06/11	2027/06/10
Climate Chamber	ESPEC	EL-10KA	A20120523	2026/06/12	2027/06/11
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2026/07/04	2027/07/03
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	/	2026/06/13	2027/06/12
By-log Antenna	SCHWARZBECK	VULB9163	00976	2026/07/04	2027/07/03
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2026/07/04	2027/07/03
Amplifier	SKET	LAPA_30M01G-32	SK20240104001	2025/12/23	2026/12/22
Amplifier	EMCI	EMC012645SE	980340	2025/12/23	2026/12/22
Amplifier	Schwarzbeck	BBV9179	9719-025	2025/12/01	2026/11/30
Temperature/Humidity Meter	HUATU	HTC-1	/	2026/06/12	2027/06/11
High-Pass Filter	Stest	1	/	2026/07/04	2027/07/03
High-Pass Filter	Stest	2	/	2026/07/04	2027/07/03
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2026/06/12	2027/06/11
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2026/06/12	2027/06/11
Data acquisition card	Agilent	U2531A	TW53323507	2026/06/12	2027/06/11
Power Sensor	Keysight	E9301A	MY41495308	2026/06/11	2027/06/10
Control Unit	Tonscend	JS0806-2	/	2026/07/07	2027/07/06
Control Unit	Tonscend	JS0806-2	/	2026/07/07	2027/07/06
integrated measuring instrument	R&S	CMW500	107519	2026/06/12	2027/06/11
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

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+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

2 Support equipment, if needed, was placed as per ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

4 The EUT received DC 24.0V power, the Adapter received AC120V/60Hz or AC 240V/50Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

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.

9 The LISN is more than 40cm away from the vertical reference plane.

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.

DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where	CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

TEST RESULTS

Remark: We measured Conducted Emission at GFSK, $\pi/4$ -DQPSK and 8DPSK mode in AC 120V/60Hz and AC 240V/60Hz, the worst case was recorded(GFSK 1Mbps-MCH) .

Temperature	25°C	Humidity	60%
Test Engineer	Evan Ouyang	Configurations	BT(MCH)

Model: I26K01_Version A
Adapter: ADS-65HI-19A-124060F

Power supply:	AC 120V/60Hz	Polarization	L
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.15	35.71	17.15	10.35	46.06	27.50	66.00	56.00	19.94	28.50	L1	PASS
2	0.3795	25.46	16.49	10.15	35.61	26.64	58.29	48.29	22.68	21.65	L1	PASS
3	0.7485	12.27	4.11	10.24	22.51	14.35	56.00	46.00	33.49	31.65	L1	PASS
4	2.0985	15.79	6.20	10.28	26.07	16.48	56.00	46.00	29.93	29.52	L1	PASS
5	5.307	19.61	6.54	10.39	30.00	18.93	60.00	50.00	30.00	33.07	L1	PASS
6	8.799	19.57	8.08	10.55	30.12	18.63	60.00	50.00	29.88	31.37	L1	PASS

Note: 1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.1545	34.39	14.34	10.33	44.72	24.67	65.75	55.75	21.03	31.08	N	PASS
2	0.3525	29.39	18.40	10.13	39.52	28.53	58.90	48.90	19.38	20.37	N	PASS
3	1.8735	21.76	10.66	10.26	32.02	20.92	56.00	46.00	23.98	25.08	N	PASS
4	3.921	23.73	13.28	10.37	34.10	23.65	56.00	46.00	21.90	22.35	N	PASS
5	8.5875	27.11	12.07	10.56	37.67	22.63	60.00	50.00	22.33	27.37	N	PASS
6	26.2905	28.99	20.65	11.61	40.60	32.26	60.00	50.00	19.40	17.74	N	PASS

Note: 1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.1545	35.74	17.99	10.33	46.07	28.32	65.75	55.75	19.68	27.43	L1	PASS
2	0.375	26.12	15.95	10.15	36.27	26.10	58.39	48.39	22.12	22.29	L1	PASS
3	1.041	14.24	3.60	10.20	24.44	13.80	56.00	46.00	31.56	32.20	L1	PASS
4	3.3585	17.38	3.79	10.35	27.73	14.14	56.00	46.00	28.27	31.86	L1	PASS
5	10.0365	21.96	6.89	10.59	32.55	17.48	60.00	50.00	27.45	32.52	L1	PASS
6	26.2905	26.42	19.80	11.64	38.06	31.44	60.00	50.00	21.94	18.66	L1	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.15	35.12	18.19	10.35	45.47	28.54	66.00	56.00	20.53	29.46	N	PASS
2	0.3615	29.83	18.03	10.14	39.97	28.17	58.69	48.69	18.72	20.52	N	PASS
3	0.672	21.23	10.30	10.21	31.44	20.51	56.00	46.00	24.56	25.49	N	PASS
4	0.9915	20.83	8.63	10.19	31.02	18.82	56.00	46.00	24.98	27.18	N	PASS
5	3.9345	25.14	12.90	10.37	35.51	23.27	56.00	46.00	20.49	22.73	N	PASS
6	8.718	24.88	10.97	10.55	35.43	21.52	60.00	50.00	24.57	28.48	N	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Model: I26K01_Version B

Power supply:	AC 120V/60Hz	Polarization	L
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.159	34.24	16.60	10.31	44.55	26.91	65.52	55.52	20.97	28.61	L1	PASS
2	0.3525	23.55	14.67	10.13	33.68	24.80	58.90	48.90	25.22	24.10	L1	PASS
3	0.726	13.93	3.82	10.23	24.16	14.05	56.00	46.00	31.84	31.95	L1	PASS
4	2.886	17.39	3.24	10.33	27.72	13.57	56.00	46.00	28.28	32.43	L1	PASS
5	5.397	19.57	3.85	10.40	29.97	14.25	60.00	50.00	30.03	35.75	L1	PASS
6	26.295	25.94	19.67	11.64	37.58	31.31	60.00	50.00	22.42	18.69	L1	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.1545	33.69	15.30	10.33	44.02	25.63	65.75	55.75	21.73	30.12	N	PASS
2	0.3795	28.90	20.53	10.15	39.05	30.68	58.29	48.29	19.24	17.61	N	PASS
3	0.6675	21.55	11.83	10.21	31.76	22.04	56.00	46.00	24.24	23.96	N	PASS
4	1.5225	20.90	12.88	10.24	31.14	23.12	56.00	46.00	24.86	22.88	N	PASS
5	5.28	24.07	11.40	10.38	34.45	21.78	60.00	50.00	25.55	28.22	N	PASS
6	23.2845	26.77	21.64	11.49	38.26	33.13	60.00	50.00	21.74	16.87	N	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Model: I26K02_Version A
Adapter: ADS-65HI-19A-124060F

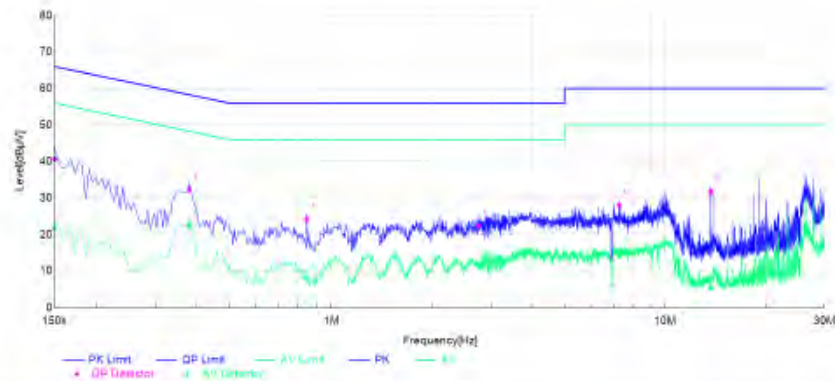
Power supply:

AC 120V/60Hz

Polarization

L

Test Graph



Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.15	30.33	11.47	10.35	40.68	21.82	66.00	56.00	25.32	34.18	L1	PASS
2	0.3795	22.33	12.23	10.15	32.48	22.38	58.29	48.29	25.81	25.91	L1	PASS
3	0.843	13.82	-2.40	10.24	24.06	7.84	56.00	46.00	31.94	38.16	L1	PASS
4	2.76	12.09	1.26	10.32	22.41	11.58	56.00	46.00	33.59	34.42	L1	PASS
5	7.278	17.47	3.70	10.53	28.00	14.23	60.00	50.00	32.00	35.77	L1	PASS
6	13.7175	20.83	-5.45	10.87	31.70	5.42	60.00	50.00	28.30	44.58	L1	PASS

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

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

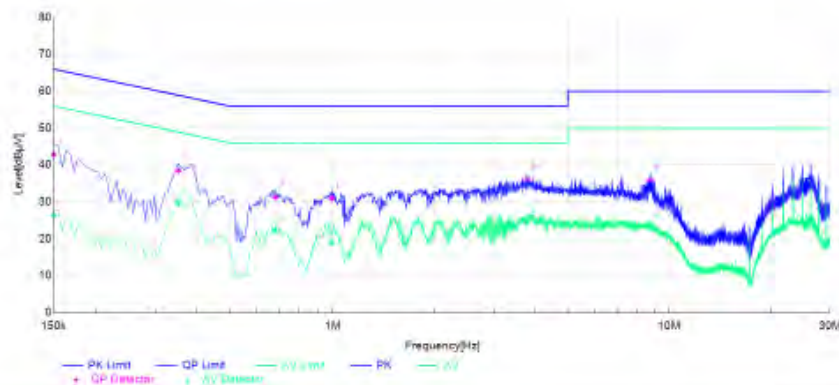
Power supply:

AC 120V/60Hz

Polarization

N

Test Graph



Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.15	32.49	16.00	10.35	42.84	26.35	66.00	56.00	23.16	29.65	N	PASS
2	0.3525	28.30	19.47	10.13	38.43	29.60	58.90	48.90	20.47	19.30	N	PASS
3	0.681	21.07	12.00	10.22	31.29	22.22	56.00	46.00	24.71	23.78	N	PASS
4	0.9915	20.73	8.78	10.19	30.92	18.97	56.00	46.00	25.08	27.03	N	PASS
5	3.7815	25.82	13.82	10.36	36.18	24.18	56.00	46.00	19.82	21.82	N	PASS
6	8.817	25.41	12.35	10.55	35.96	22.90	60.00	50.00	24.04	27.10	N	PASS

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

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.159	32.42	15.47	10.31	42.73	25.78	65.52	55.52	22.79	29.74	L1	PASS
2	0.3795	23.18	15.03	10.15	33.33	25.18	58.29	48.29	24.96	23.11	L1	PASS
3	3.5295	16.42	3.45	10.36	26.78	13.81	56.00	46.00	29.22	32.19	L1	PASS
4	5.3205	19.24	4.97	10.39	29.63	15.36	60.00	50.00	30.37	34.64	L1	PASS
5	8.664	19.09	5.71	10.56	29.65	16.27	60.00	50.00	30.35	33.73	L1	PASS
6	24.783	24.97	13.43	11.59	36.56	25.02	60.00	50.00	23.44	24.98	L1	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG Result [dBμV]	QP Limit [dBμV]	AVG Limit [dBμV]	QP Margin [dB]	AVG Margin [dB]	Line	Remark
1	0.15	34.51	14.04	10.35	44.86	24.39	66.00	56.00	21.14	31.61	N	PASS
2	0.3525	28.04	20.04	10.13	38.17	30.17	58.90	48.90	20.73	18.73	N	PASS
3	0.681	20.44	11.94	10.22	30.66	22.16	56.00	46.00	25.34	23.84	N	PASS
4	1.5	20.12	12.81	10.24	30.36	23.05	56.00	46.00	25.64	22.95	N	PASS
5	8.7045	25.82	12.02	10.55	36.37	22.57	60.00	50.00	23.63	27.43	N	PASS
6	24.792	28.07	22.61	11.53	39.60	34.14	60.00	50.00	20.40	15.86	N	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Model: I26K02_Version B

Power supply:	AC 120V/60Hz	Polarization	L
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG. Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG. Result [dBμV]	QP Limit [dBμV]	AVG. Limit [dBμV]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.1545	30.90	14.23	10.33	41.23	24.56	65.75	55.75	24.52	31.19	L1	PASS
2	0.375	21.77	13.13	10.15	31.92	23.28	58.39	48.39	26.47	25.11	L1	PASS
3	3.4845	20.93	-0.87	10.35	31.28	9.68	56.00	46.00	24.72	36.32	L1	PASS
4	4.2405	20.91	-0.18	10.36	31.27	10.18	56.00	46.00	24.73	35.82	L1	PASS
5	10.0815	16.79	6.61	10.59	27.38	17.20	60.00	50.00	32.62	32.80	L1	PASS
6	24.7875	22.57	14.01	11.59	34.16	25.60	60.00	50.00	25.84	24.40	L1	PASS

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Power supply:	AC 120V/60Hz	Polarization	N
---------------	--------------	--------------	---

Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμV]	AVG. Reading [dBμV]	Factor [dB]	QP Result [dBμV]	AVG. Result [dBμV]	QP Limit [dBμV]	AVG. Limit [dBμV]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	34.63	15.82	10.35	44.98	26.17	66.00	56.00	21.02	29.83	N	PASS
2	0.3525	29.65	19.90	10.13	39.78	30.03	58.90	48.90	19.12	18.87	N	PASS
3	0.672	21.57	11.77	10.21	31.78	21.98	56.00	46.00	24.22	24.02	N	PASS
4	1.0095	21.02	11.11	10.20	31.22	21.31	56.00	46.00	24.78	24.69	N	PASS
5	8.6685	25.70	11.61	10.56	36.26	22.17	60.00	50.00	23.74	27.83	N	PASS
6	24.792	27.94	21.51	11.53	39.47	33.04	60.00	50.00	20.53	18.96	N	PASS

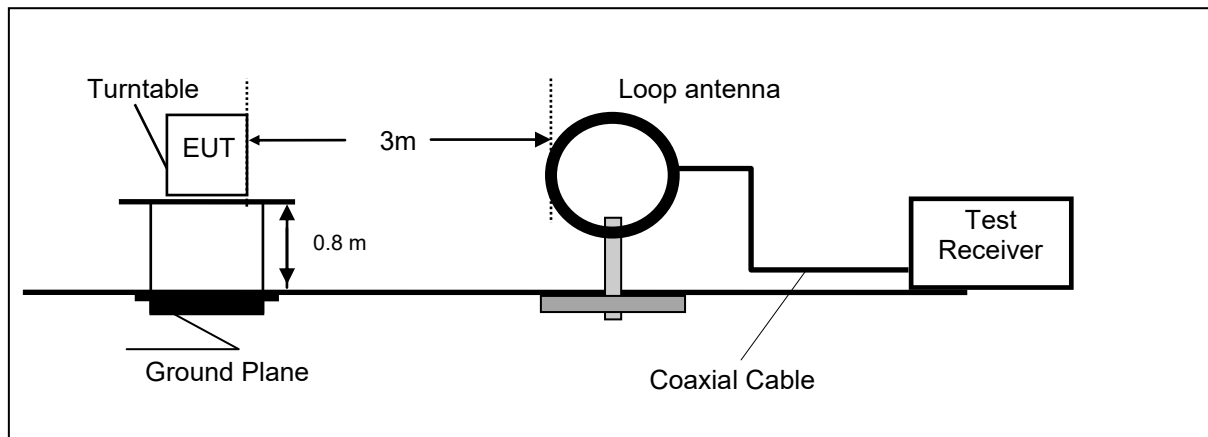
Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

NOTE: All the modes have been tested and recorded worst mode in the report.

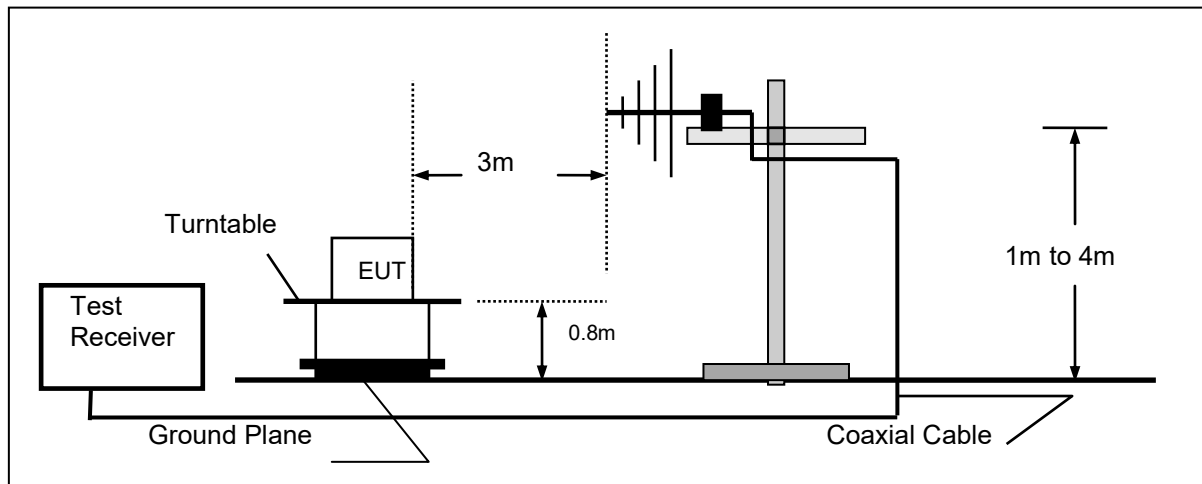
4.2. Radiated Emission

TEST CONFIGURATION

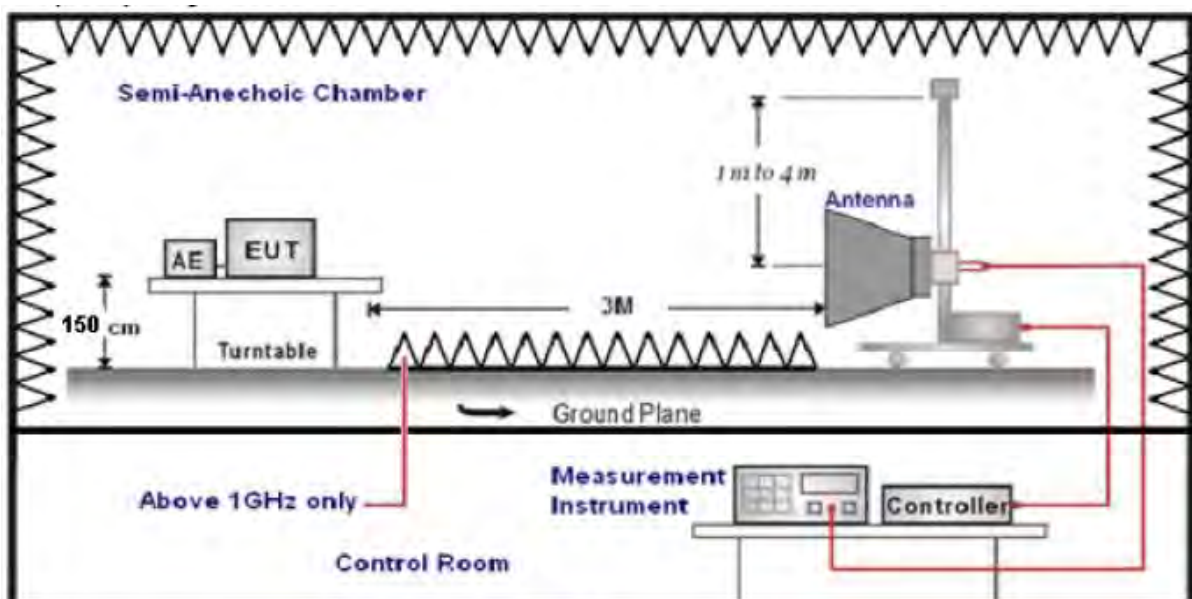
Frequency range 9 KHz – 30MHz



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° to 360° 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	

$$Transd=AF +CL-AG$$

RADIATION LIMIT

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: We measured Radiated Emission at GFSK, π/4-DQPSK and 8DPSK mode from 9KHz to 25GHz and recorded worst case at GFSK(1Mbps-MCH) mode.

Temperature	22.6℃	Humidity	51%
Test Engineer	Evan Ouyang	Configurations	BT(MCH)

For 9 KHz~30MHz

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

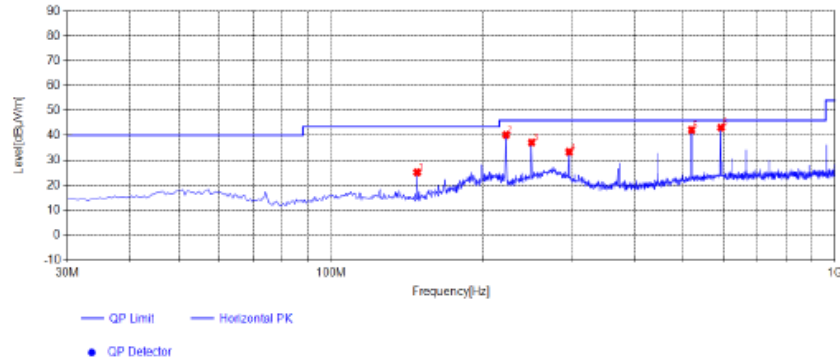
For 30MHz-1GHz

Model: I26K01_Version A

Adapter: ADS-65HI-19A-124060F

Horizontal

Test Graph



Suspected List

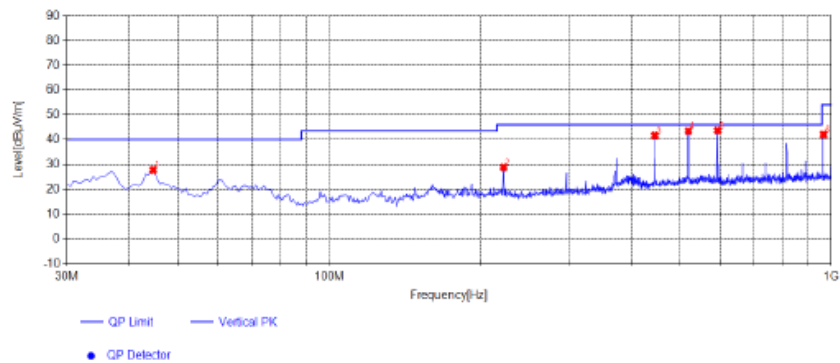
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	148.34	39.42	-14.22	25.20	43.50	18.30	100	80	PK	Horizontal	PASS
2	222.545	49.69	-9.47	40.22	46.00	5.78	100	140	PK	Horizontal	PASS
3	250.19	45.81	-8.70	37.11	46.00	8.89	100	220	PK	Horizontal	PASS
4	297.235	40.92	-7.55	33.37	46.00	12.63	100	20	PK	Horizontal	PASS
5	519.85	44.53	-2.29	42.24	46.00	3.76	100	110	PK	Horizontal	PASS
6	594.54	43.81	-0.59	43.22	46.00	2.78	100	310	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.55	39.22	-11.41	27.81	40.00	12.19	100	170	PK	Vertical	PASS
2	222.545	38.31	-9.47	28.84	46.00	17.16	100	180	PK	Vertical	PASS
3	445.645	45.52	-3.91	41.61	46.00	4.39	100	230	PK	Vertical	PASS
4	519.85	45.79	-2.29	43.50	46.00	2.50	100	330	PK	Vertical	PASS
5	594.54	44.34	-0.59	43.75	46.00	2.25	100	290	PK	Vertical	PASS
6	966.05	39.61	2.48	42.09	54.00	11.91	100	150	PK	Vertical	PASS

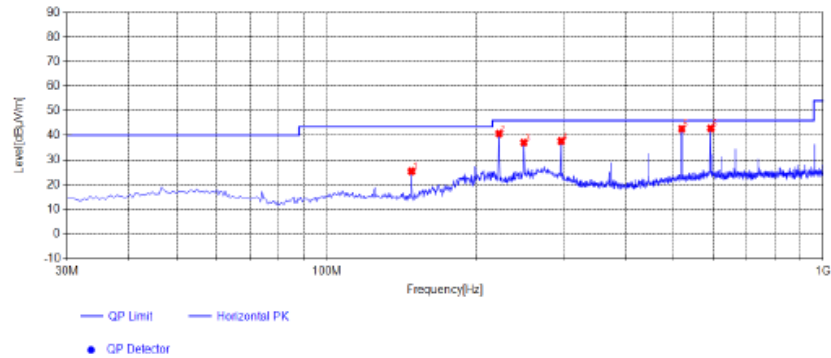
Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

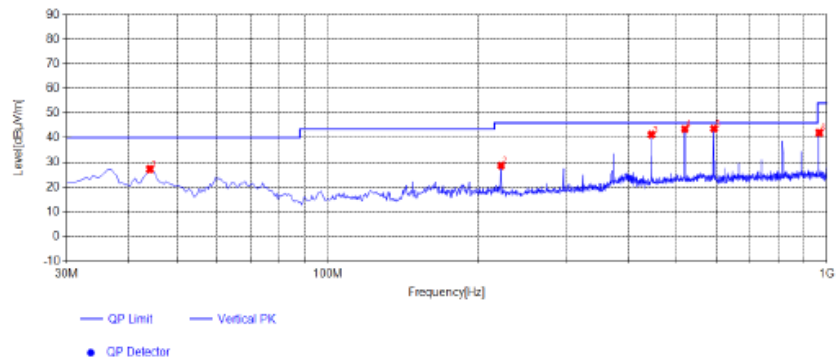
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	148.34	39.64	-14.22	25.42	43.50	18.08	100	350	PK	Horizontal	PASS
2	222.545	50.16	-9.47	40.69	46.00	5.31	100	210	PK	Horizontal	PASS
3	249.705	45.75	-8.72	37.03	46.00	8.97	100	200	PK	Horizontal	PASS
4	297.235	45.19	-7.55	37.64	46.00	8.36	100	70	PK	Horizontal	PASS
5	519.85	45.04	-2.29	42.75	46.00	3.25	100	100	PK	Horizontal	PASS
6	594.54	43.51	-0.59	42.92	46.00	3.08	100	340	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	38.77	-11.45	27.32	40.00	12.68	100	280	PK	Vertical	PASS
2	222.545	38.20	-9.47	28.73	46.00	17.27	100	150	PK	Vertical	PASS
3	445.645	45.16	-3.91	41.25	46.00	4.75	100	360	PK	Vertical	PASS
4	519.85	45.83	-2.29	43.54	46.00	2.46	100	280	PK	Vertical	PASS
5	594.54	44.31	-0.59	43.72	46.00	2.28	100	20	PK	Vertical	PASS
6	986.05	39.59	2.48	42.07	54.00	11.93	100	270	PK	Vertical	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

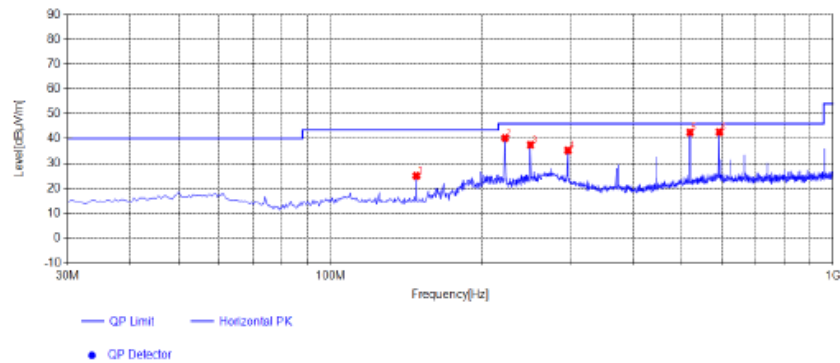
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Model: I26K01_Version B

Adapter: ADS-65HI-19A-124060F

Horizontal

Test Graph



Suspected List

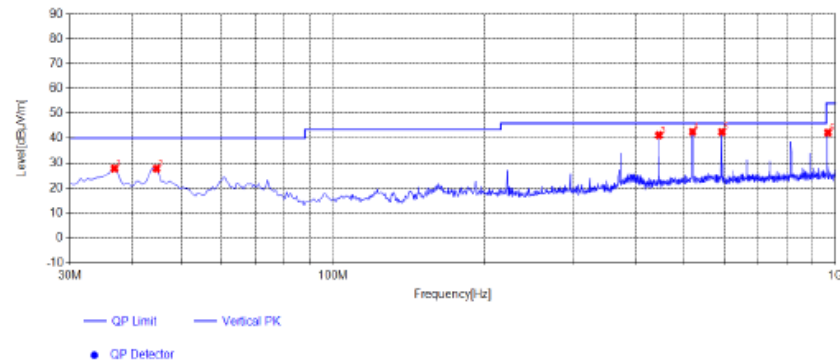
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	148.34	39.28	-14.22	25.06	43.50	18.44	100	150	PK	Horizontal	PASS
2	222.545	49.72	-9.47	40.25	46.00	5.75	100	120	PK	Horizontal	PASS
3	250.19	46.19	-8.70	37.49	46.00	8.51	100	280	PK	Horizontal	PASS
4	297.235	42.90	-7.55	35.35	46.00	10.65	100	300	PK	Horizontal	PASS
5	519.85	44.89	-2.29	42.60	46.00	3.40	100	300	PK	Horizontal	PASS
6	594.54	43.32	-0.59	42.73	46.00	3.27	100	30	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	36.79	40.14	-12.23	27.91	40.00	12.09	100	270	PK	Vertical	PASS
2	44.55	39.25	-11.41	27.84	40.00	12.16	100	180	PK	Vertical	PASS
3	445.645	45.08	-3.91	41.17	46.00	4.83	100	90	PK	Vertical	PASS
4	519.85	44.95	-2.29	42.66	46.00	3.34	100	190	PK	Vertical	PASS
5	594.54	43.20	-0.59	42.61	46.00	3.39	100	30	PK	Vertical	PASS
6	966.05	39.84	2.48	42.32	54.00	11.68	100	280	PK	Vertical	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

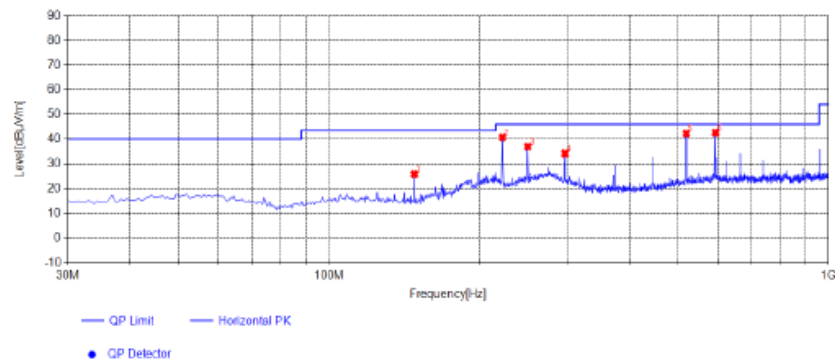
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Model: I26K02_Version A

Adapter: ADS-65HI-19A-124060F

Horizontal

Test Graph



Suspected List

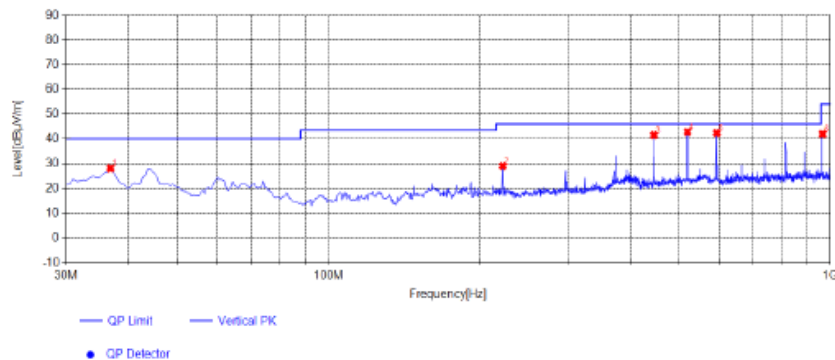
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	148.34	40.04	-14.22	25.82	43.50	17.68	100	20	PK	Horizontal	PASS
2	222.545	50.17	-9.47	40.70	46.00	5.30	100	140	PK	Horizontal	PASS
3	250.19	45.64	-8.70	36.94	46.00	9.06	100	160	PK	Horizontal	PASS
4	297.235	41.74	-7.55	34.19	46.00	11.81	100	250	PK	Horizontal	PASS
5	519.85	44.61	-2.29	42.32	46.00	3.68	100	330	PK	Horizontal	PASS
6	594.54	43.26	-0.59	42.67	46.00	3.33	100	160	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	36.79	40.40	-12.23	28.17	40.00	11.83	100	310	PK	Vertical	PASS
2	222.545	38.50	-9.47	29.03	46.00	16.97	100	340	PK	Vertical	PASS
3	445.645	45.41	-3.91	41.50	46.00	4.50	100	310	PK	Vertical	PASS
4	519.85	45.14	-2.29	42.85	46.00	3.15	100	40	PK	Vertical	PASS
5	594.54	43.05	-0.59	42.46	46.00	3.54	100	100	PK	Vertical	PASS
6	966.05	39.51	2.48	41.99	54.00	12.01	100	60	PK	Vertical	PASS

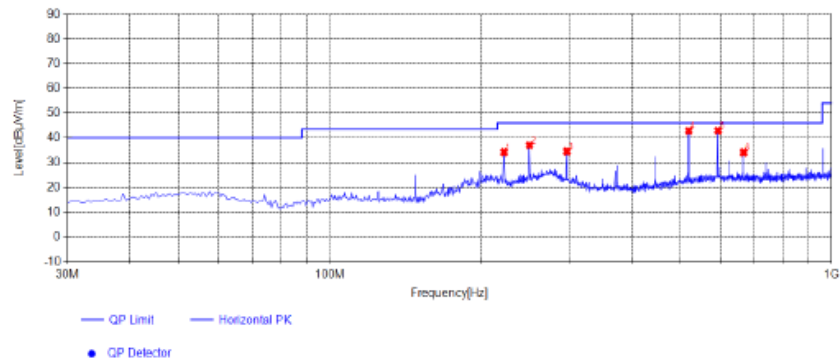
Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

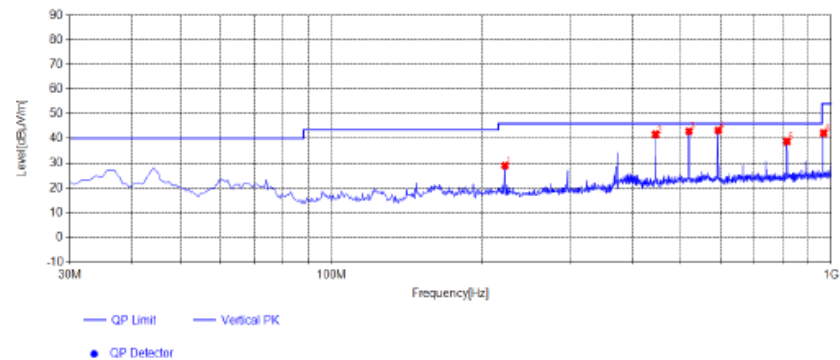
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	222.545	43.71	-9.47	34.24	46.00	11.76	100	340	PK	Horizontal	PASS
2	250.19	45.71	-8.70	37.01	46.00	8.99	100	310	PK	Horizontal	PASS
3	297.235	42.12	-7.55	34.57	46.00	11.43	100	270	PK	Horizontal	PASS
4	519.85	45.19	-2.29	42.90	46.00	3.10	100	90	PK	Horizontal	PASS
5	594.54	43.58	-0.59	42.99	46.00	3.01	100	270	PK	Horizontal	PASS
6	668.745	33.77	0.37	34.14	46.00	11.86	100	280	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	222.545	38.49	-9.47	29.02	46.00	16.98	100	320	PK	Vertical	PASS
2	445.645	45.51	-3.91	41.60	46.00	4.40	100	220	PK	Vertical	PASS
3	519.85	45.31	-2.29	43.02	46.00	2.98	100	170	PK	Vertical	PASS
4	594.54	43.94	-0.59	43.35	46.00	2.65	100	20	PK	Vertical	PASS
5	817.155	37.15	1.72	38.87	46.00	7.13	100	250	PK	Vertical	PASS
6	966.05	39.76	2.48	42.24	54.00	11.76	100	190	PK	Vertical	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

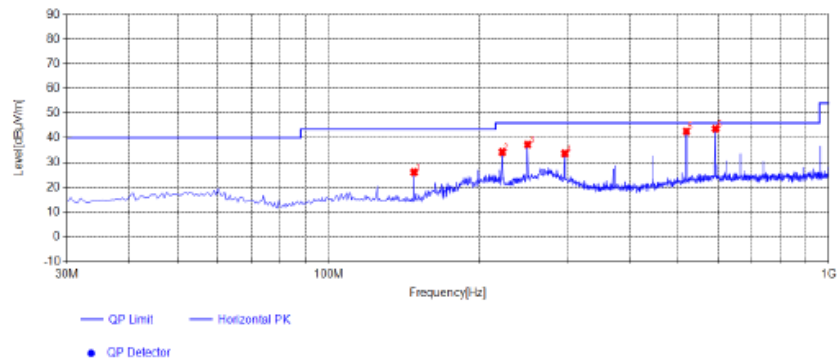
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Model: I26K02_Version B

Adapter: ADS-65HI-19A-124060F

Horizontal

Test Graph



Suspected List

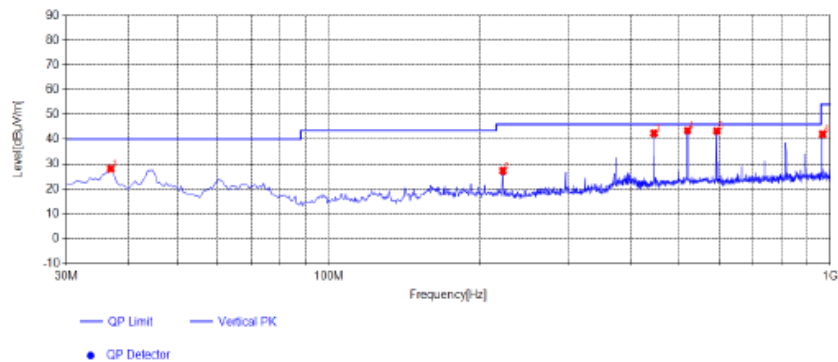
NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	148.34	40.30	-14.22	26.08	43.50	17.42	100	150	PK	Horizontal	PASS
2	222.545	43.73	-9.47	34.26	46.00	11.74	100	90	PK	Horizontal	PASS
3	250.19	45.97	-8.70	37.27	46.00	8.73	100	230	PK	Horizontal	PASS
4	297.235	41.22	-7.55	33.67	46.00	12.33	100	130	PK	Horizontal	PASS
5	519.85	44.99	-2.29	42.70	46.00	3.30	100	190	PK	Horizontal	PASS
6	594.54	44.29	-0.59	43.70	46.00	2.30	100	210	PK	Horizontal	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

Vertical

Test Graph



Suspected List

NO.	Frequency [MHz]	Reading [dBuV/m]	Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	36.79	40.40	-12.23	28.17	40.00	11.83	100	310	PK	Vertical	PASS
2	222.545	36.80	-9.47	27.33	46.00	18.67	100	330	PK	Vertical	PASS
3	445.645	46.37	-3.91	42.46	46.00	3.54	100	120	PK	Vertical	PASS
4	519.85	45.84	-2.29	43.55	46.00	2.45	100	270	PK	Vertical	PASS
5	594.54	43.98	-0.59	43.39	46.00	2.61	100	110	PK	Vertical	PASS
6	966.05	39.61	2.48	42.09	54.00	11.91	100	260	PK	Vertical	PASS

Note:1. Result (dBuV/m) = Reading(dBuV/m) + Factor (dB) .

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

NOTE: All the modes have been tested and recorded worst mode in the report.

For 1GHz to 25GHz

Model: I26K01_Version A

GFSK /Channel 0 / 2402 MHz(Worst Case)

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.34	32.44	30.25	7.95	60.48	74.00	-13.52	Peak	Horizontal
4804.00	35.86	32.44	30.25	7.95	46.00	54.00	-8.00	Average	Horizontal
4804.00	54.03	32.44	30.25	7.95	64.17	74.00	-9.83	Peak	Vertical
4804.00	35.45	32.44	30.25	7.95	45.59	54.00	-8.41	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	49.23	32.52	30.31	8.12	59.56	74.00	-14.44	Peak	Horizontal
4882.00	37.73	32.52	30.31	8.12	48.06	54.00	-5.94	Average	Horizontal
4882.00	52.13	32.52	30.31	8.12	62.46	74.00	-11.54	Peak	Vertical
4882.00	36.95	32.52	30.31	8.12	47.28	54.00	-6.72	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.54	32.68	30.27	7.88	61.83	74.00	-12.17	Peak	Horizontal
4960.00	35.43	32.68	30.27	7.88	45.72	54.00	-8.28	Average	Horizontal
4960.00	49.64	32.68	30.27	7.88	59.93	74.00	-14.07	Peak	Vertical
4960.00	31.07	32.68	30.27	7.88	41.36	54.00	-12.64	Average	Vertical

Model: I26K01_Version B

GFSK /Channel 0 / 2402 MHz(Worst Case)

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.23	32.44	30.25	7.95	60.37	74.00	-13.63	Peak	Horizontal
4804.00	34.82	32.44	30.25	7.95	44.96	54.00	-9.04	Average	Horizontal
4804.00	54.63	32.44	30.25	7.95	64.77	74.00	-9.23	Peak	Vertical
4804.00	36.05	32.44	30.25	7.95	46.19	54.00	-7.81	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	50.47	32.52	30.31	8.12	60.80	74.00	-13.20	Peak	Horizontal
4882.00	36.01	32.52	30.31	8.12	46.34	54.00	-7.66	Average	Horizontal
4882.00	50.96	32.52	30.31	8.12	61.29	74.00	-12.71	Peak	Vertical
4882.00	36.12	32.52	30.31	8.12	46.45	54.00	-7.55	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	50.73	32.68	30.27	7.88	61.02	74.00	-12.98	Peak	Horizontal
4960.00	36.54	32.68	30.27	7.88	46.83	54.00	-7.17	Average	Horizontal
4960.00	49.55	32.68	30.27	7.88	59.84	74.00	-14.16	Peak	Vertical
4960.00	32.01	32.68	30.27	7.88	42.30	54.00	-11.70	Average	Vertical

Model: I26K02_Version A

GFSK /Channel 0 / 2402 MHz(Worst Case)

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	50.77	32.44	30.25	7.95	60.91	74.00	-13.09	Peak	Horizontal
4804.00	36.56	32.44	30.25	7.95	46.70	54.00	-7.30	Average	Horizontal
4804.00	54.03	32.44	30.25	7.95	64.17	74.00	-9.83	Peak	Vertical
4804.00	34.73	32.44	30.25	7.95	44.87	54.00	-9.13	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	50.12	32.52	30.31	8.12	60.45	74.00	-13.55	Peak	Horizontal
4882.00	37.47	32.52	30.31	8.12	47.80	54.00	-6.20	Average	Horizontal
4882.00	52.08	32.52	30.31	8.12	62.41	74.00	-11.59	Peak	Vertical
4882.00	35.58	32.52	30.31	8.12	45.91	54.00	-8.09	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.13	32.68	30.27	7.88	61.42	74.00	-12.58	Peak	Horizontal
4960.00	36.87	32.68	30.27	7.88	47.16	54.00	-6.84	Average	Horizontal
4960.00	49.64	32.68	30.27	7.88	59.93	74.00	-14.07	Peak	Vertical
4960.00	31.48	32.68	30.27	7.88	41.77	54.00	-12.23	Average	Vertical

Model: I26K02_Version B

GFSK /Channel 0 / 2402 MHz(Worst Case)

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	49.35	32.44	30.25	7.95	59.49	74.00	-14.51	Peak	Horizontal
4804.00	35.78	32.44	30.25	7.95	45.92	54.00	-8.08	Average	Horizontal
4804.00	54.47	32.44	30.25	7.95	64.61	74.00	-9.39	Peak	Vertical
4804.00	36.28	32.44	30.25	7.95	46.42	54.00	-7.58	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	49.29	32.52	30.31	8.12	59.62	74.00	-14.38	Peak	Horizontal
4882.00	36.94	32.52	30.31	8.12	47.27	54.00	-6.73	Average	Horizontal
4882.00	50.89	32.52	30.31	8.12	61.22	74.00	-12.78	Peak	Vertical
4882.00	35.04	32.52	30.31	8.12	45.37	54.00	-8.63	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	51.26	32.68	30.27	7.88	61.55	74.00	-12.45	Peak	Horizontal
4960.00	35.12	32.68	30.27	7.88	45.41	54.00	-8.59	Average	Horizontal
4960.00	50.00	32.68	30.27	7.88	60.29	74.00	-13.71	Peak	Vertical
4960.00	31.41	32.68	30.27	7.88	41.70	54.00	-12.30	Average	Vertical

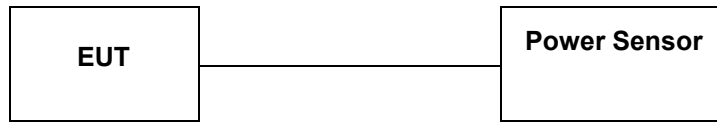
Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured= Reading- Pre. Fac.+ Ant. Fac.+ Cab. Loss
- 5). Margin = Measured- Limit

NOTE: All the modes have been tested and recorded worst mode in the report.

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Maximum peak conducted output power for HFSS devices:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the HFSS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple detector or equivalent. The power meter shall have a video bandwidth that is greater than or equal to the HFSS bandwidth and shall utilize a fast-responding diode detector.

LIMIT

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

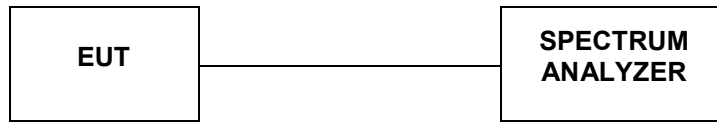
TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.3.

4.4. 99% and 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

20dB Bandwidth:

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=30KHz and VBW=100KHz. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

99% Bandwidth:

According to section 6.9.3 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, for the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Set RBW = 1%~5% OBW; VBW $\geq$ 3*RBW (for occupied bandwidth measurement).
3. Measured the 6dB bandwidth and 99% occupied bandwidth by related function of the spectrum analyzer.

LIMIT

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

TEST RESULTS

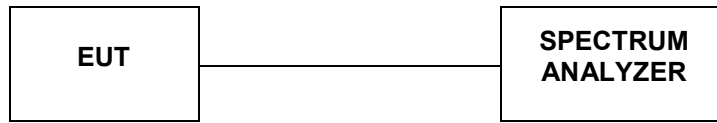
For reporting purpose only.

Please refer to Appendix A.1.

Please refer to Appendix A.2.

4.5. Frequency Separation

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100KHz and VBW=300KHz.

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the $\frac{2}{3} \times 20\text{dB}$ bandwidth of the hopping channel, whichever is greater.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.4.

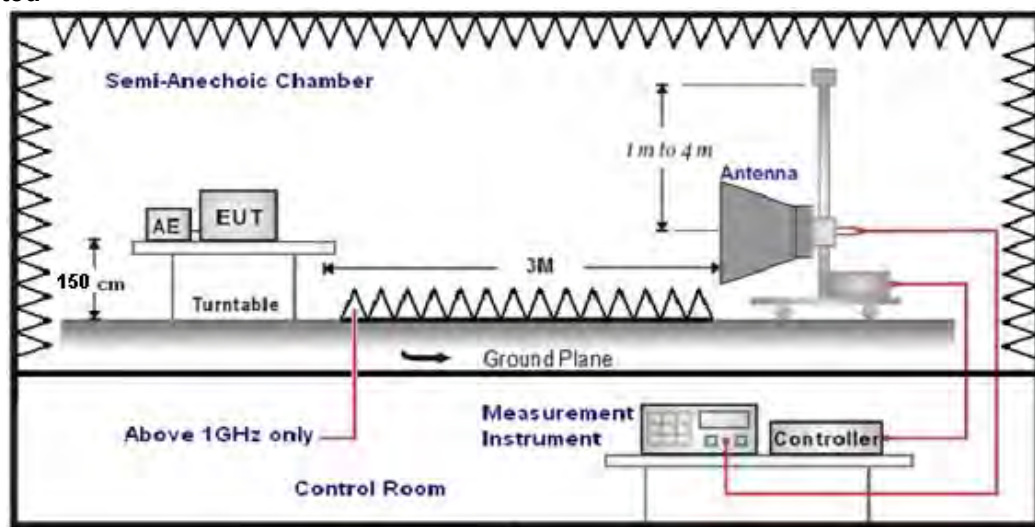
4.6. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

TEST REQUIREMENT

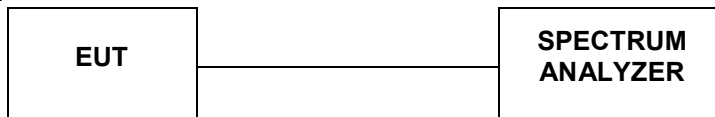
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION

For Radiated



For Conducted



TEST PROCEDURE

1. The EUT was placed on a turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° 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 distance between test antenna and EUT was 3 meter:
6. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)

TEST RESULTS

Remark: we measured all conditions(DH1,DH3,DH5) and recorded worst case at DH1.

4.6.1 For Restricted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix A.9.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix A.7.

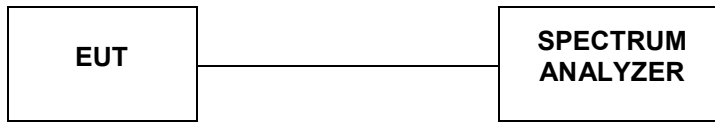
4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix A.8.

4.7. Number of hopping frequency

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with RBW=100KHz and VBW=300KHz.

LIMIT

Frequency hopping systems in the 2400–2483.5MHz band shall use at least 15 channels.

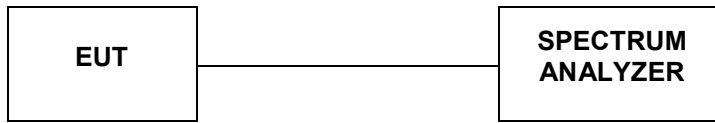
TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.6.

4.8. Time Of Occupancy(Dwell Time)

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with RBW=1MHz and VBW=3MHz, Span=0Hz.

LIMIT

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

TEST RESULTS

For reporting purpose only.

Please refer to Appendix A.5.

4.9. Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

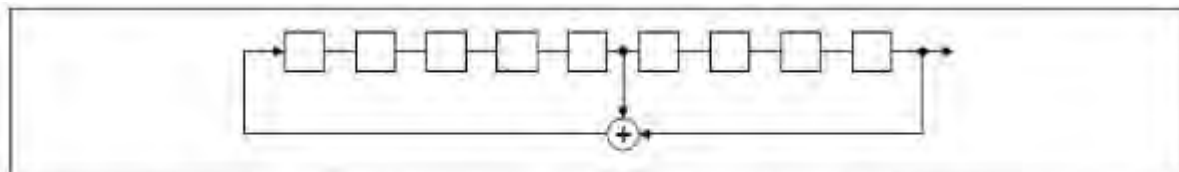
For 47 CFR Part 15C section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

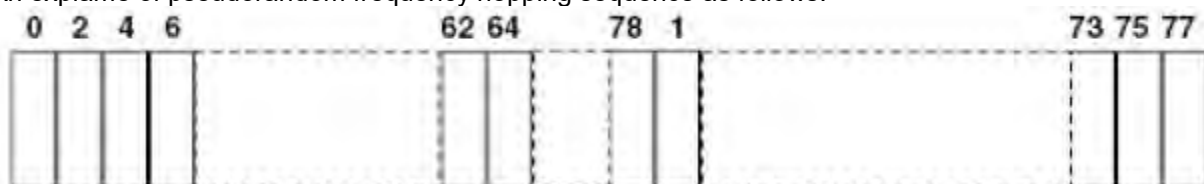
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

4.10. 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The antenna used for this product is Internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.28dBi&2.56dBi.

Reference to the **Internal photos**.

5. TEST SETUP PHOTOS OF THE EUT

Photo of Radiated Emissions Measurement

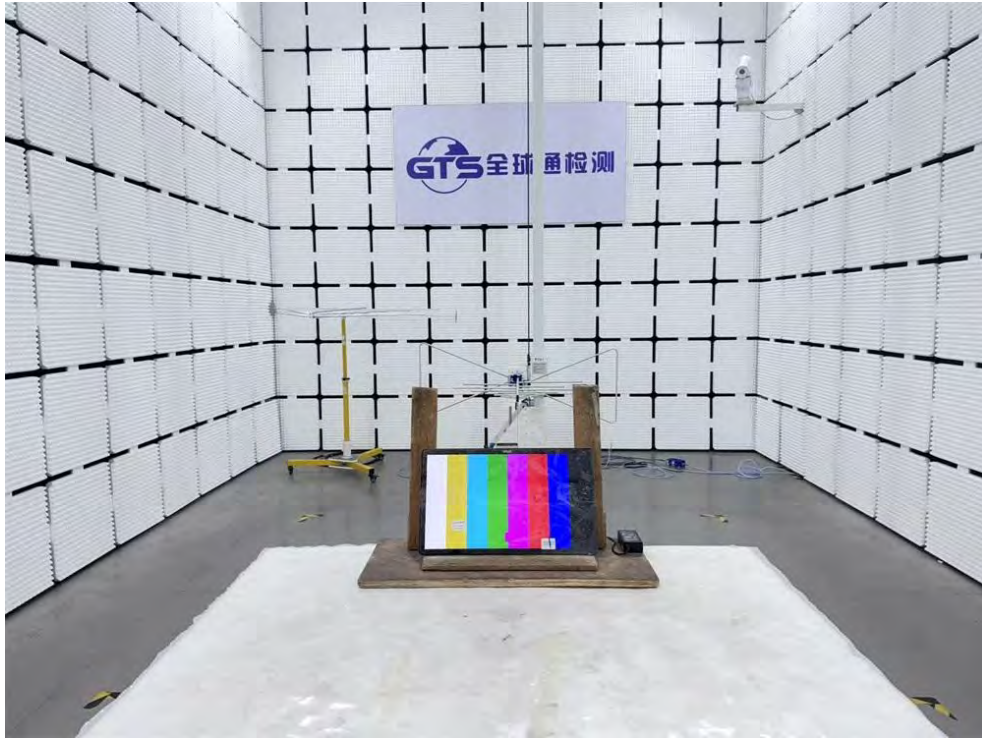


Fig. 1

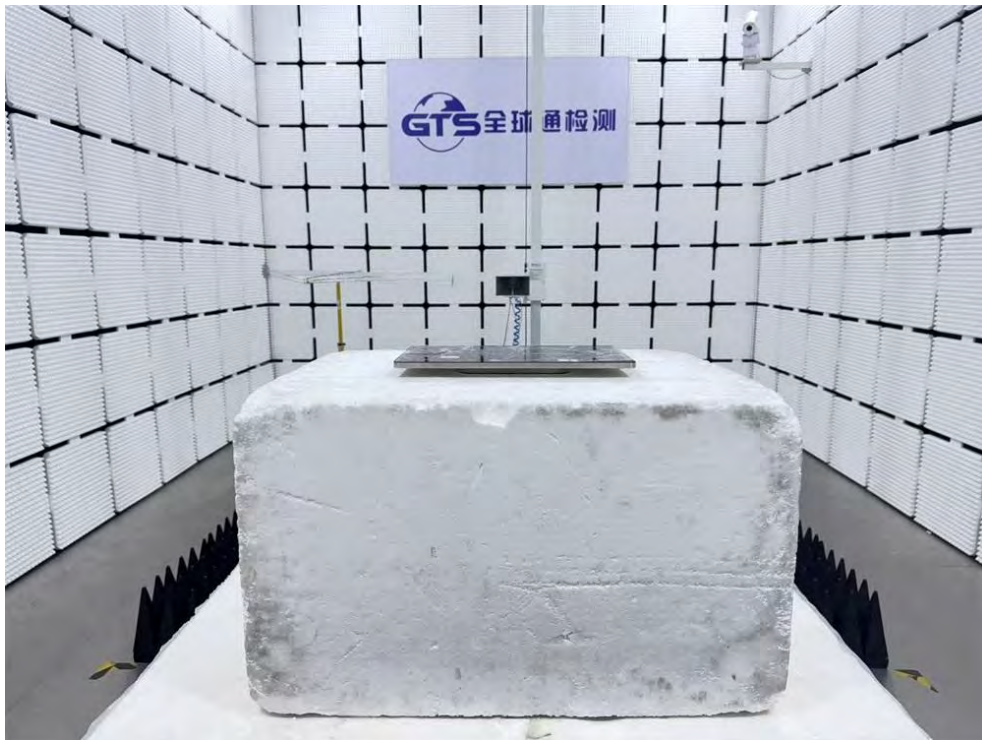


Fig. 2

Photo of Conducted Emission Measurement



Fig. 3

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

6.1. External photos of the EUT

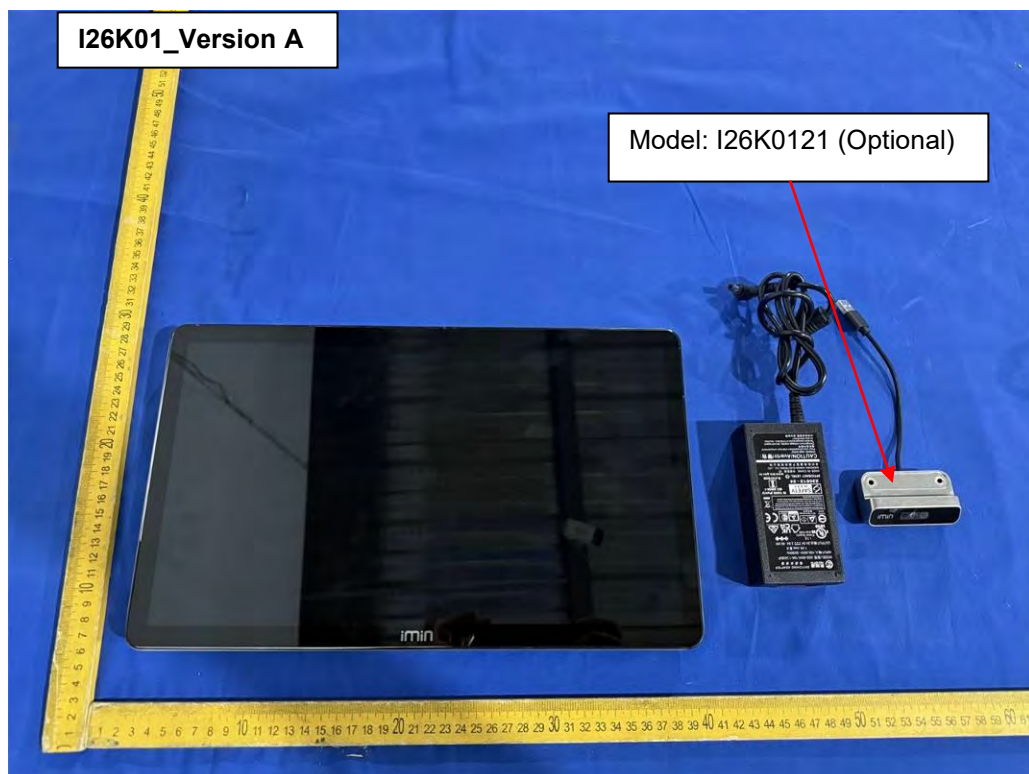


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

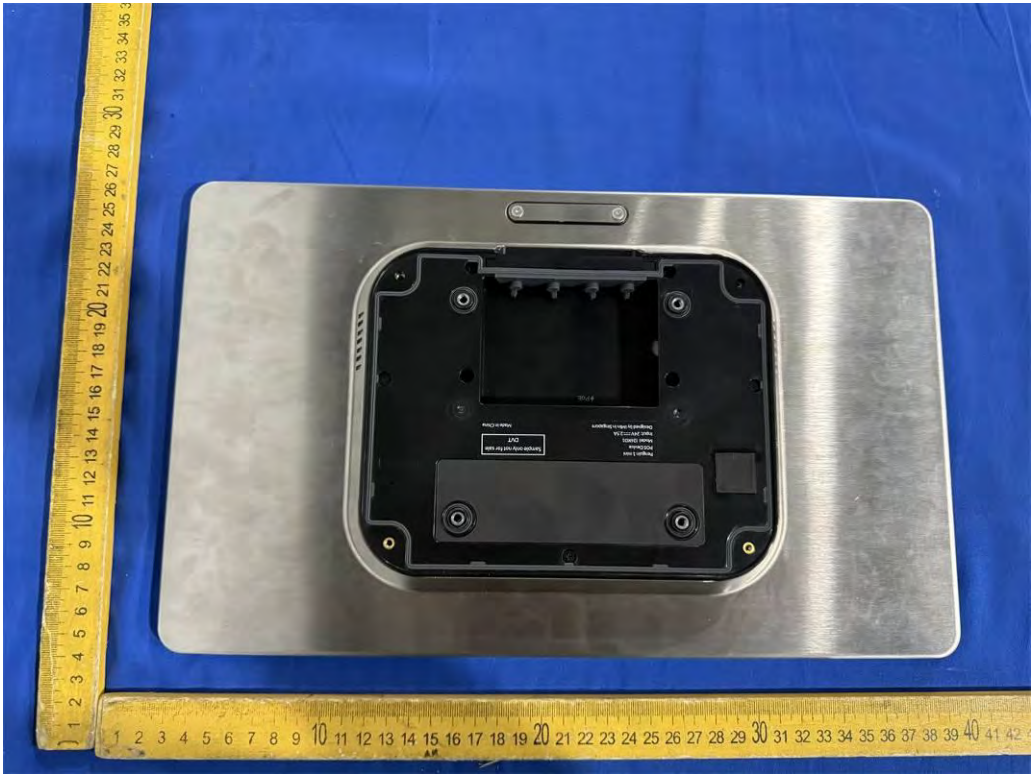


Fig. 8

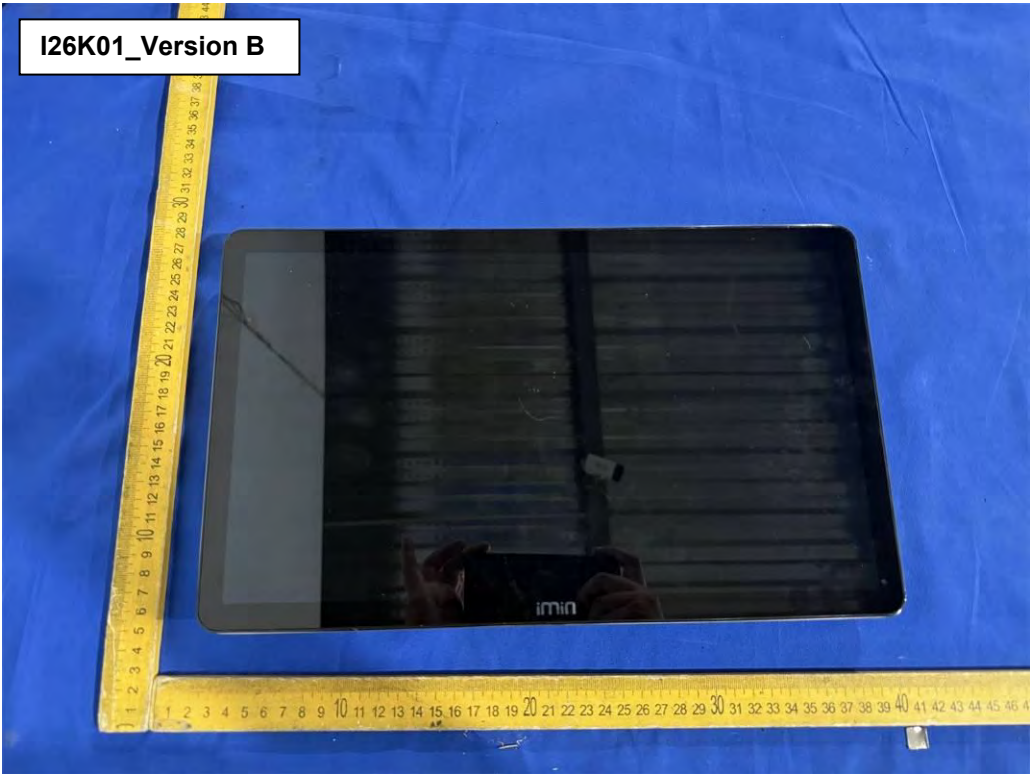


Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

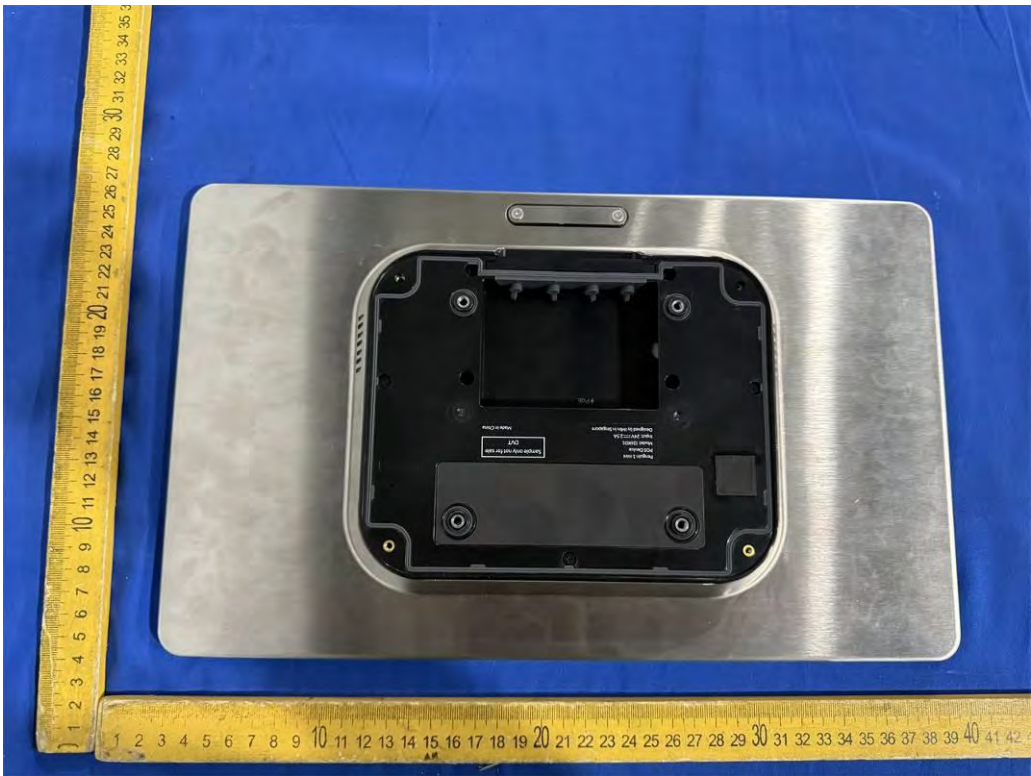


Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21

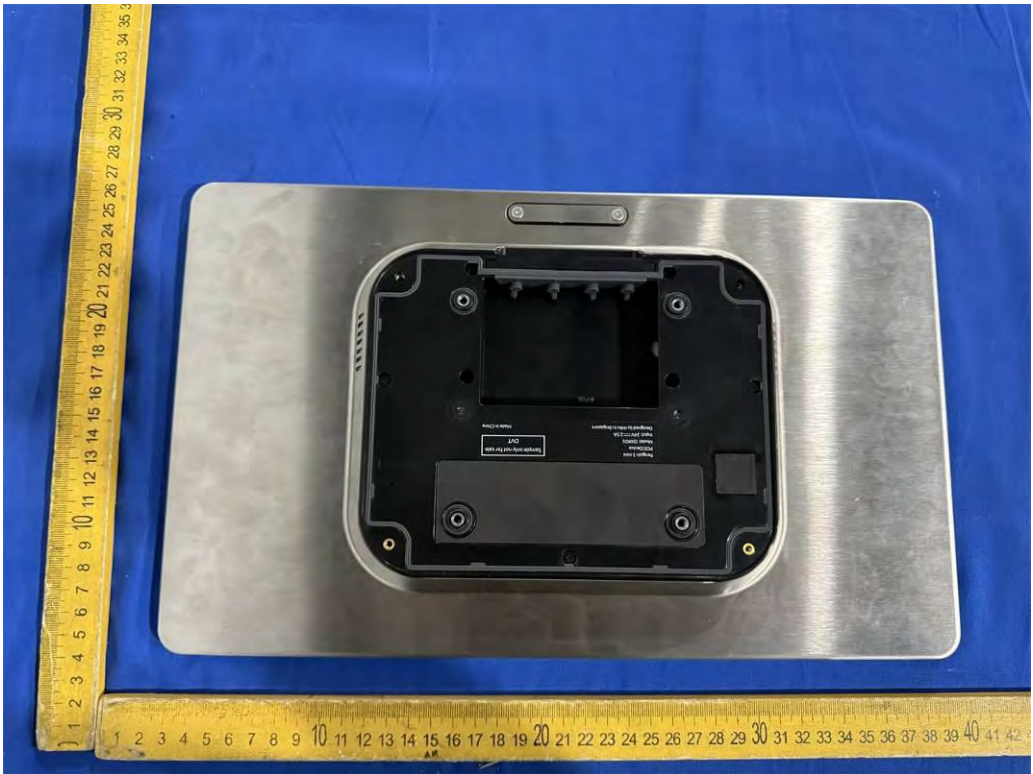


Fig. 22

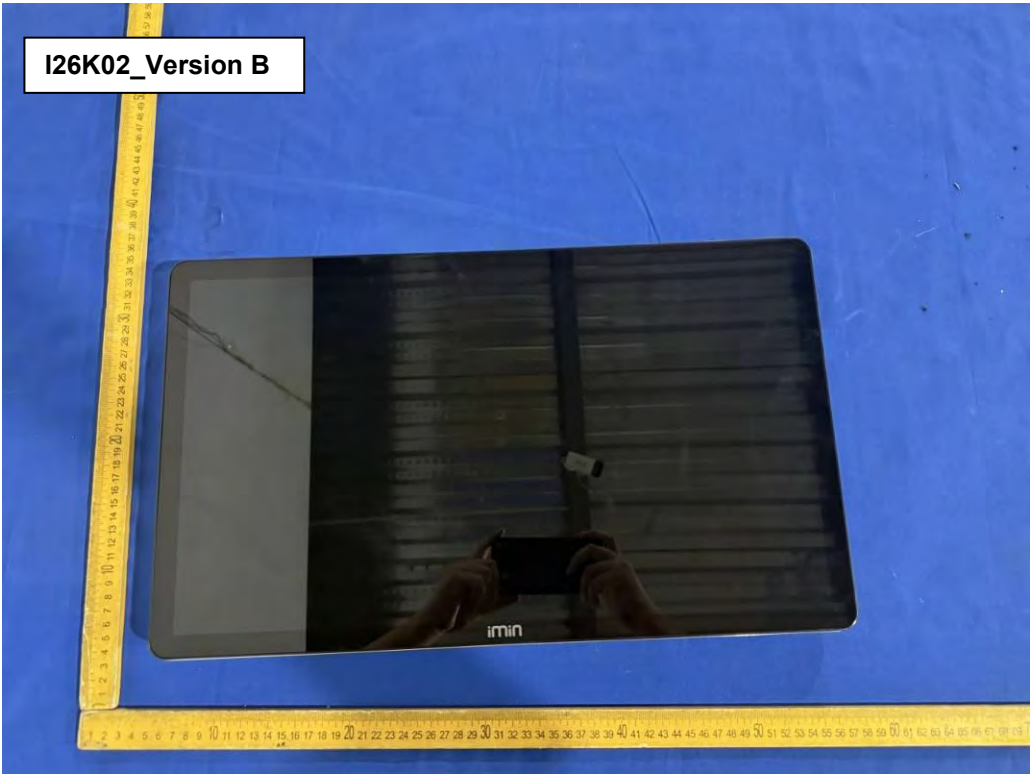


Fig. 23

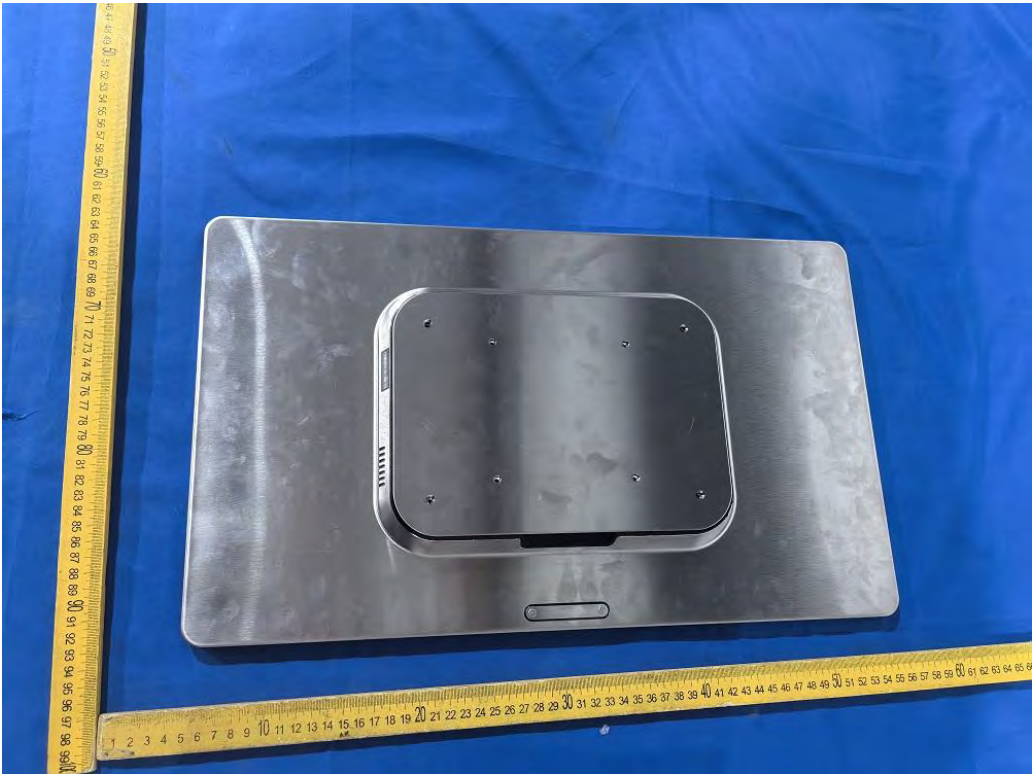


Fig. 24

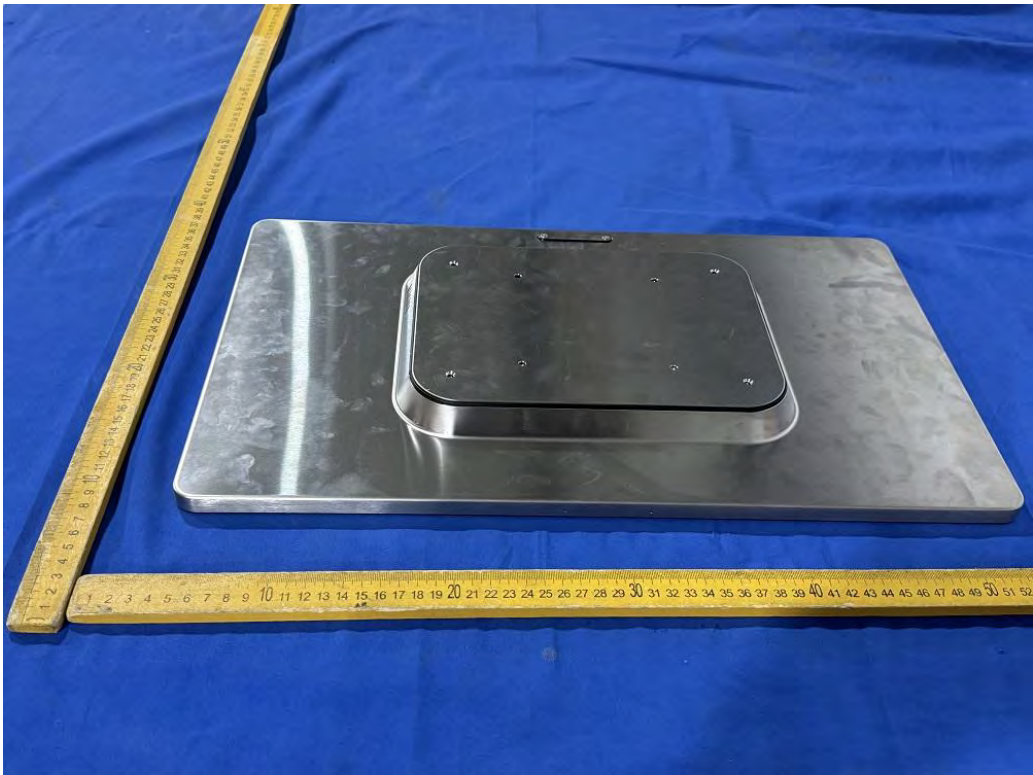


Fig. 25



Fig. 26



Fig. 27



Fig. 28

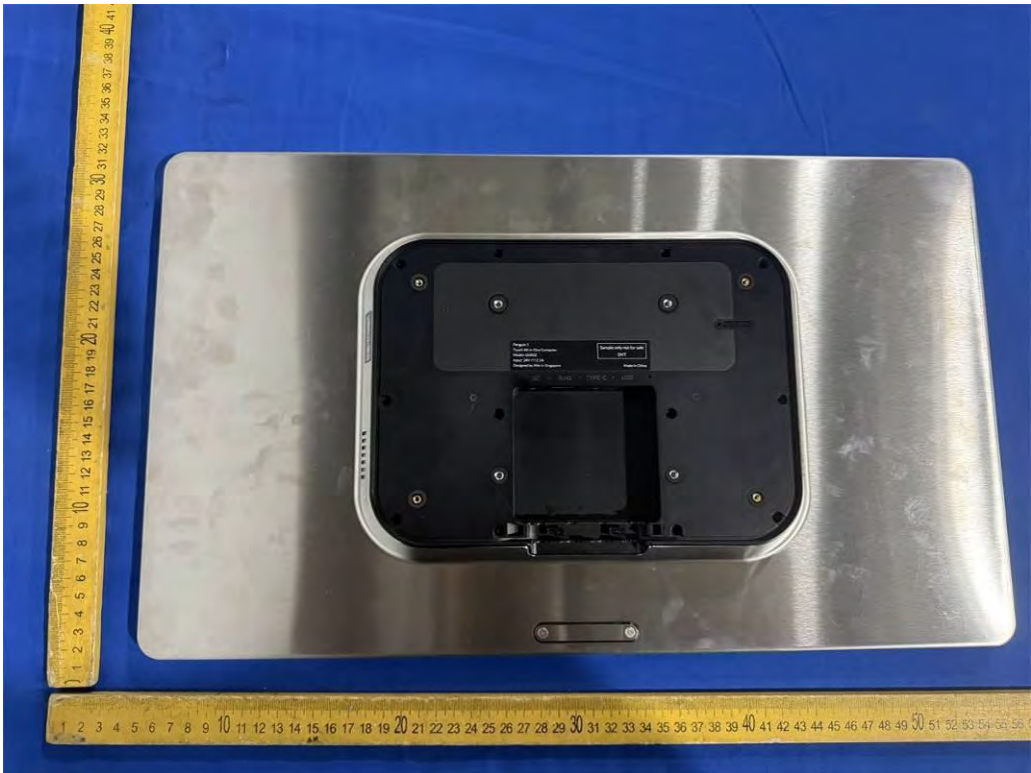


Fig. 29



Fig. 30



Fig. 31



Fig. 32

6.2.Internal photos of the EUT



Fig. 33

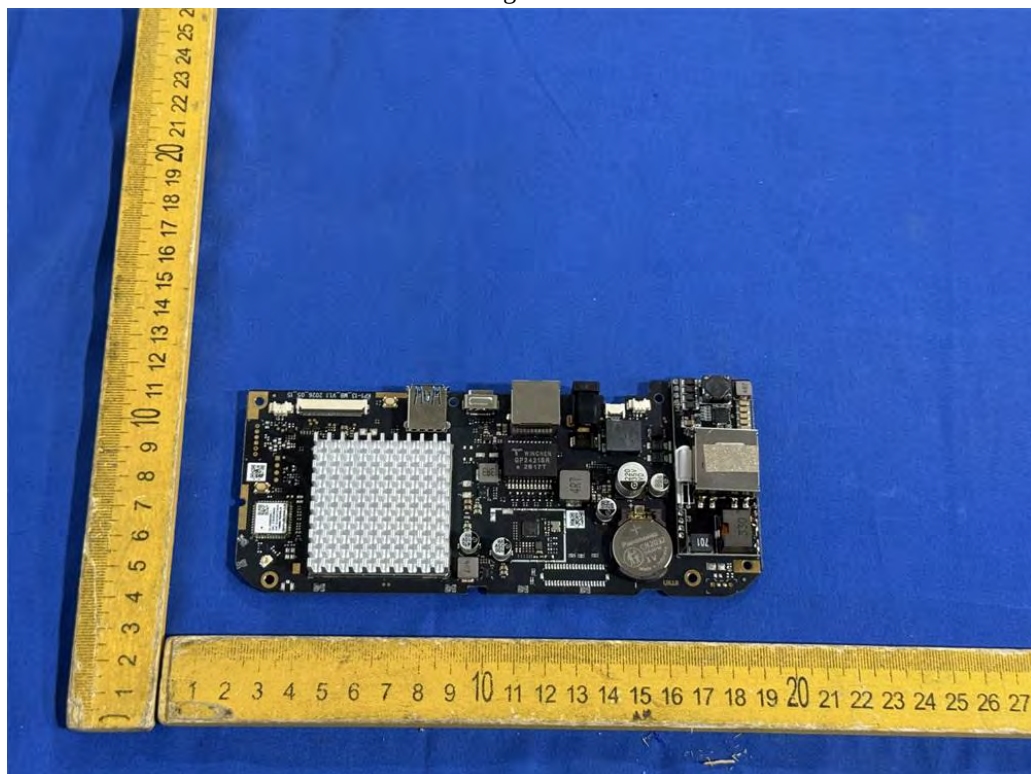


Fig. 34

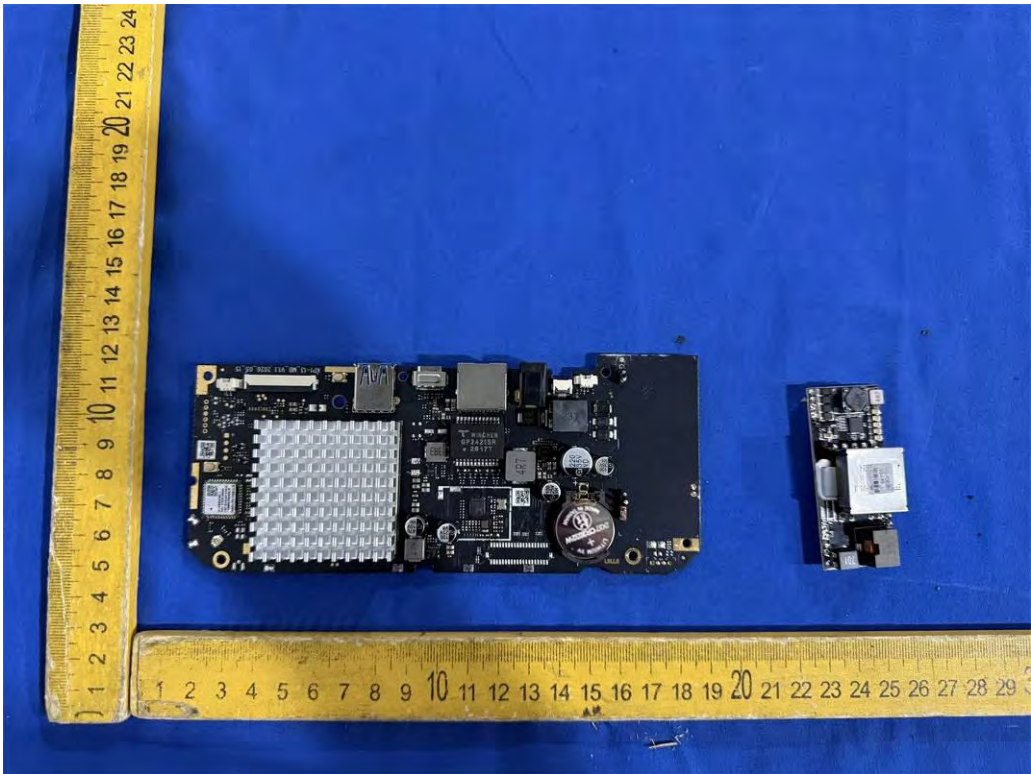


Fig. 35

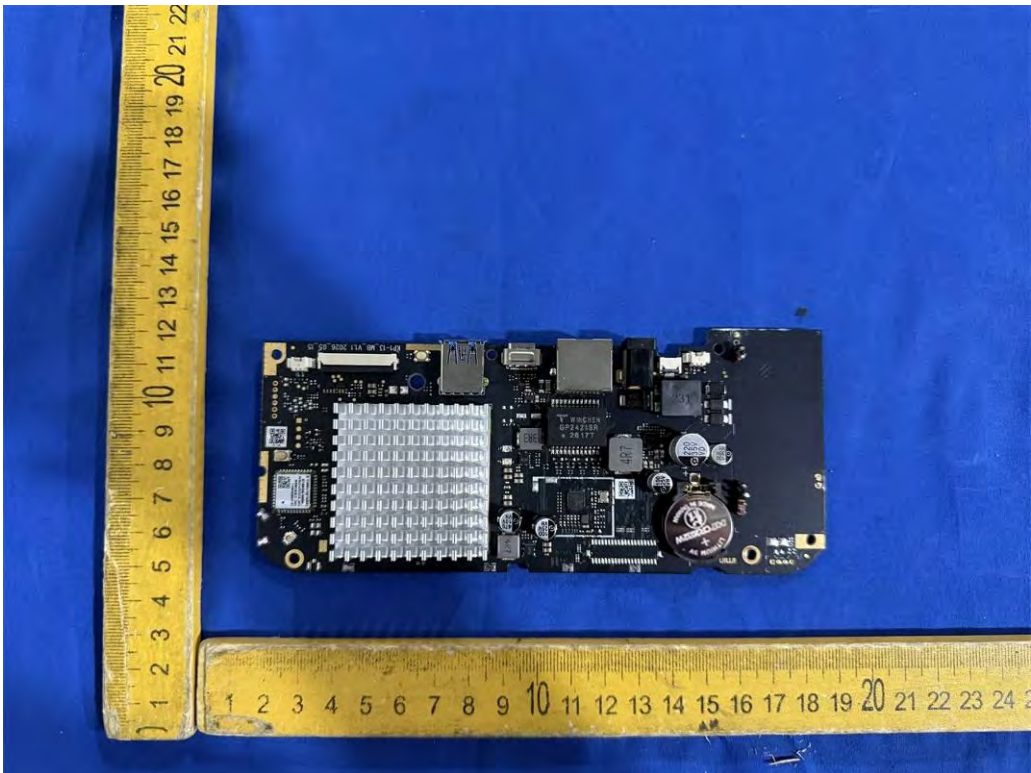


Fig. 36



Fig. 37

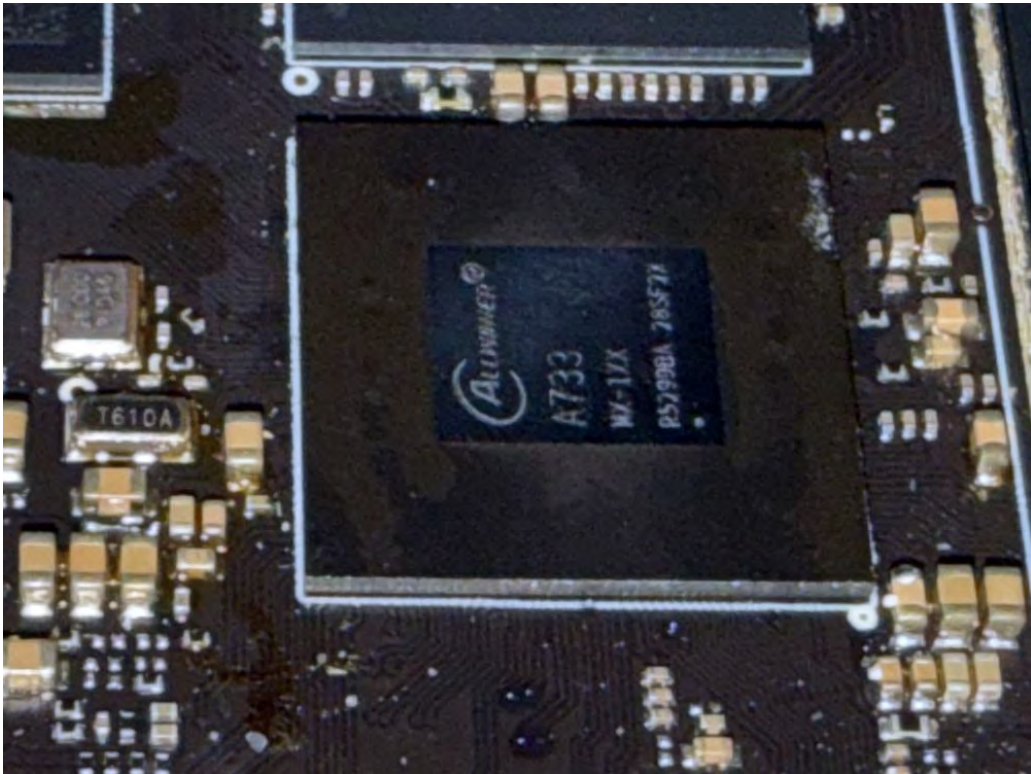


Fig. 38

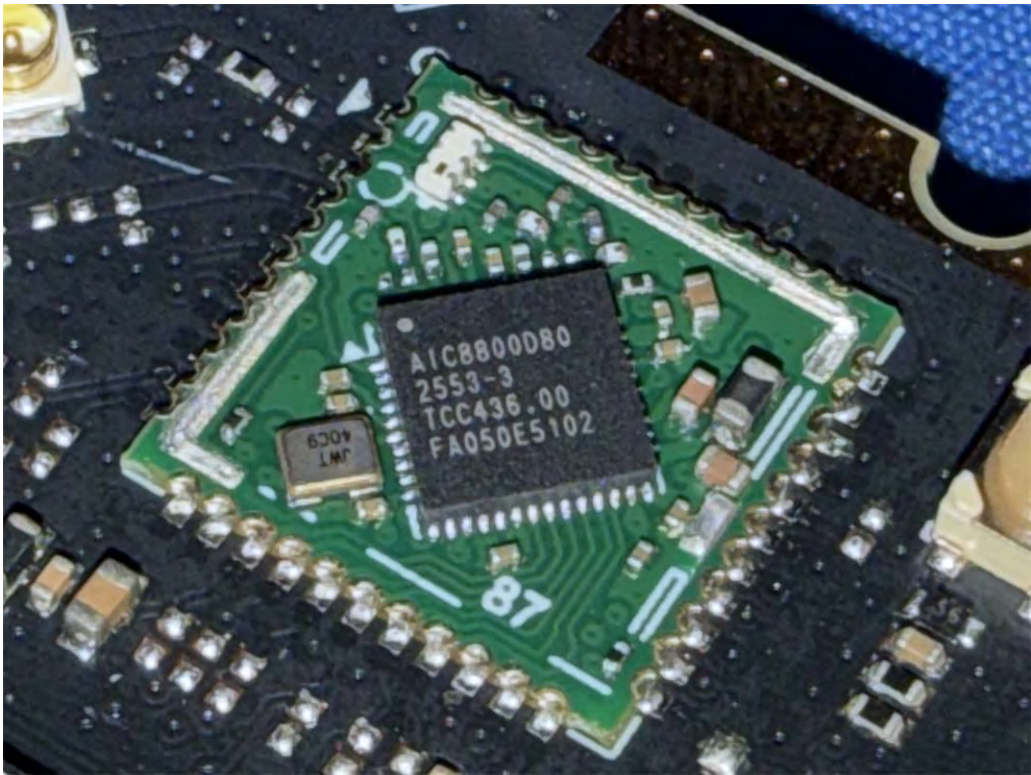


Fig. 39

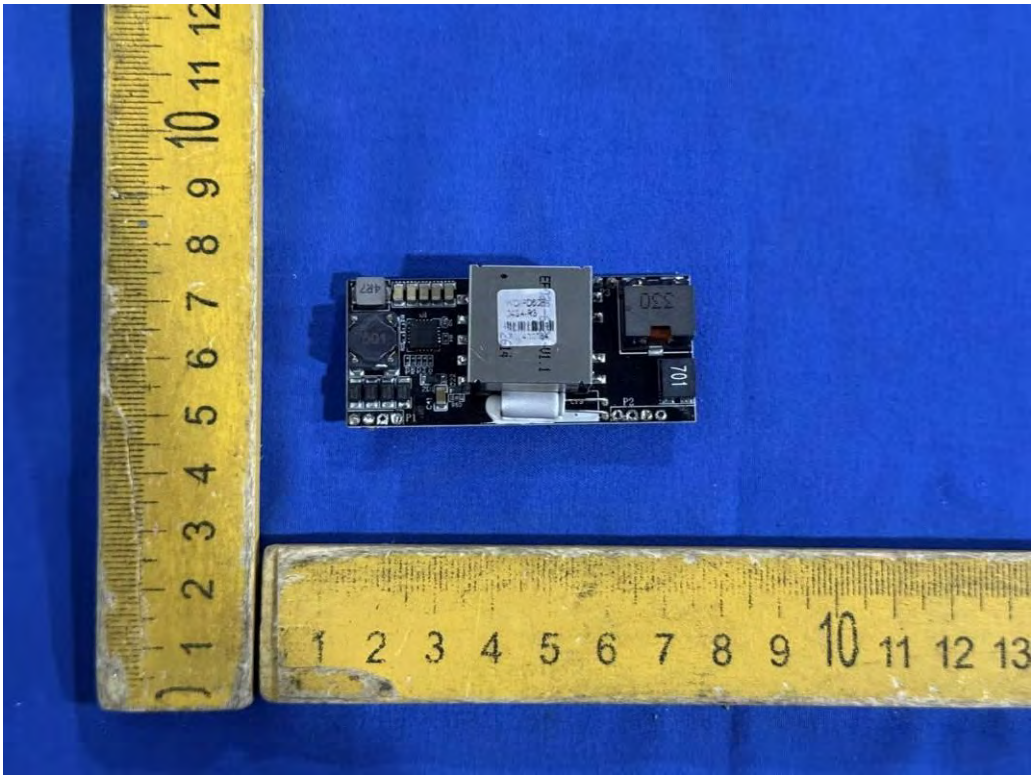


Fig. 40

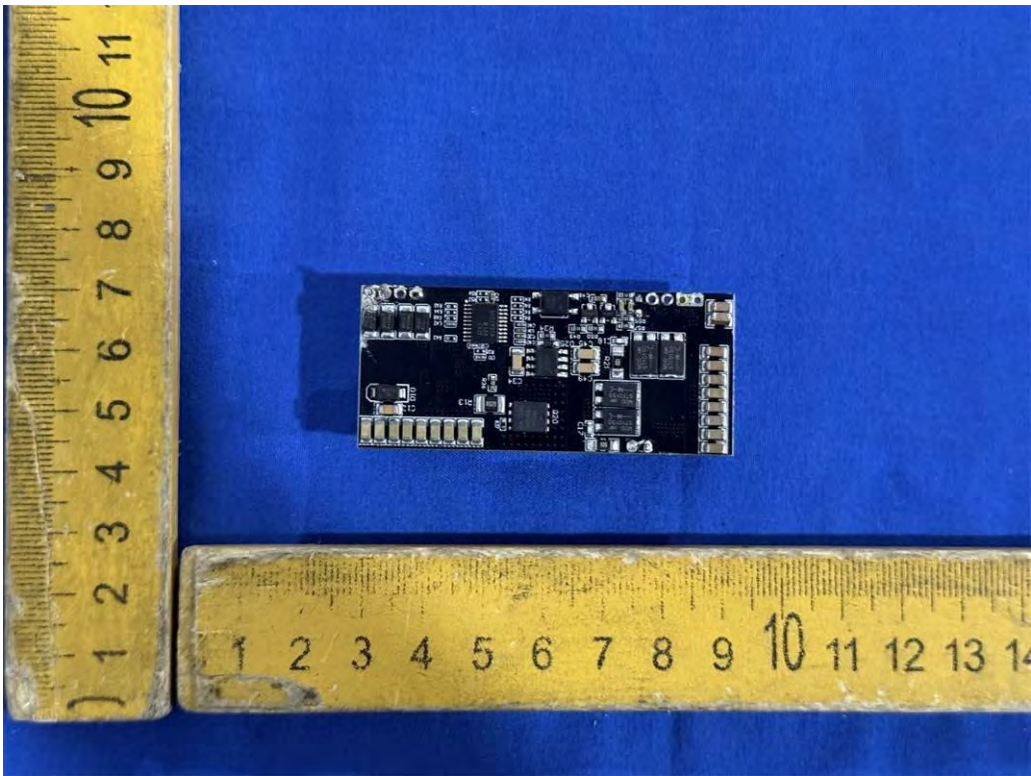


Fig. 41



Fig. 42

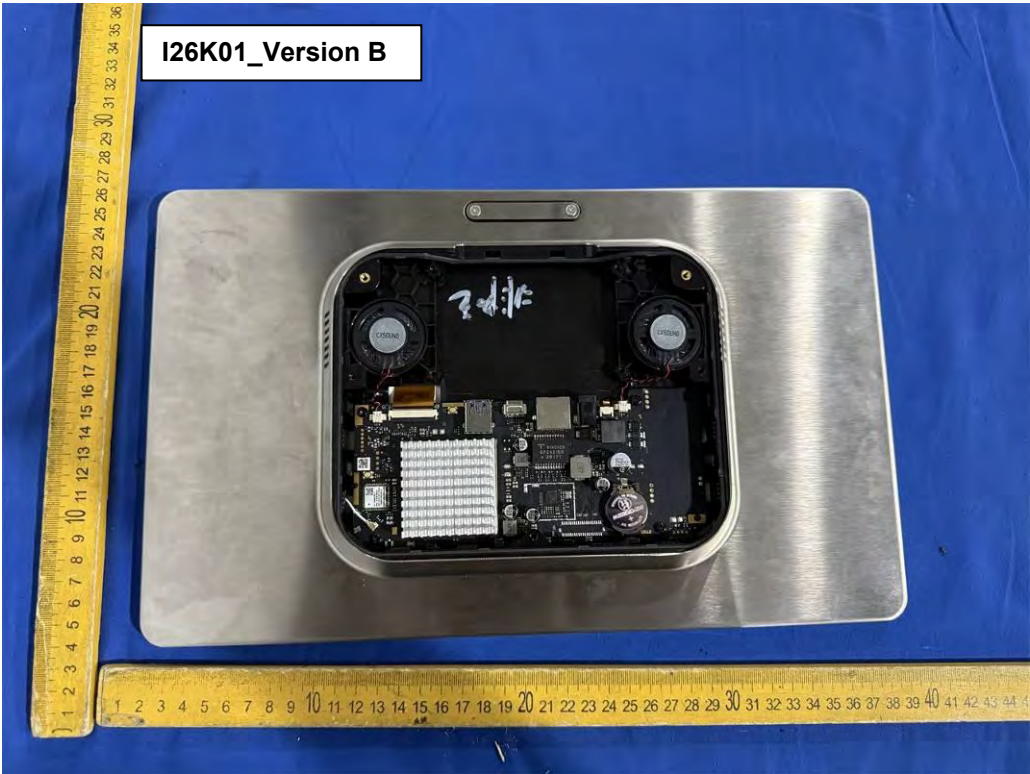


Fig. 43

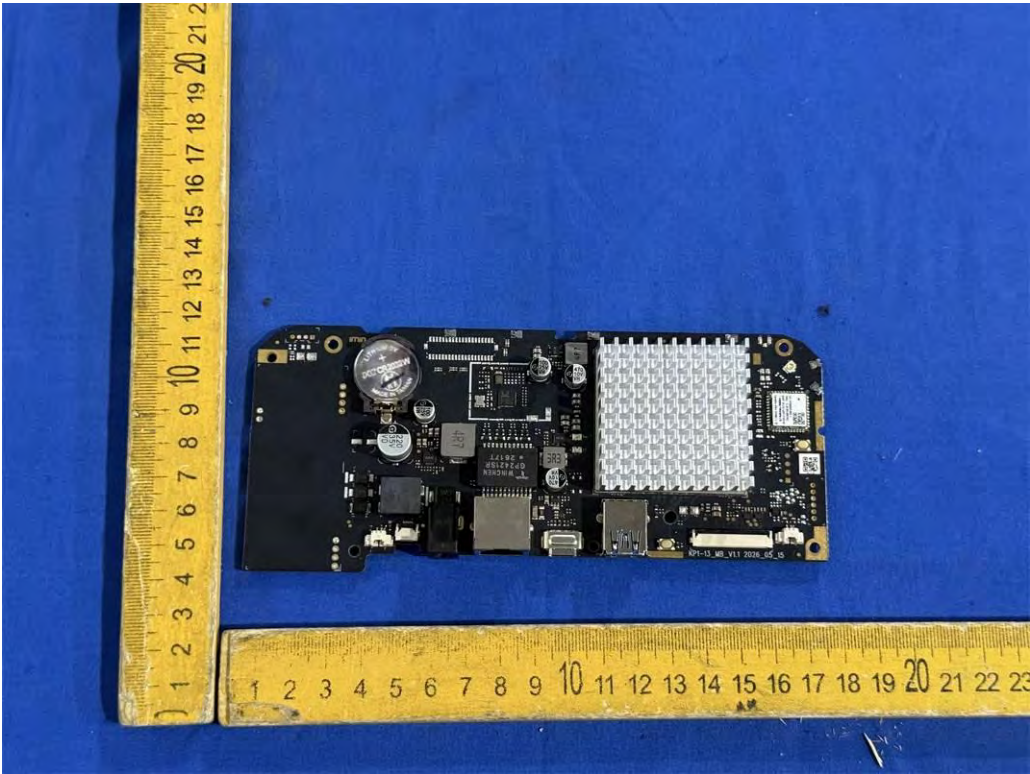


Fig. 44

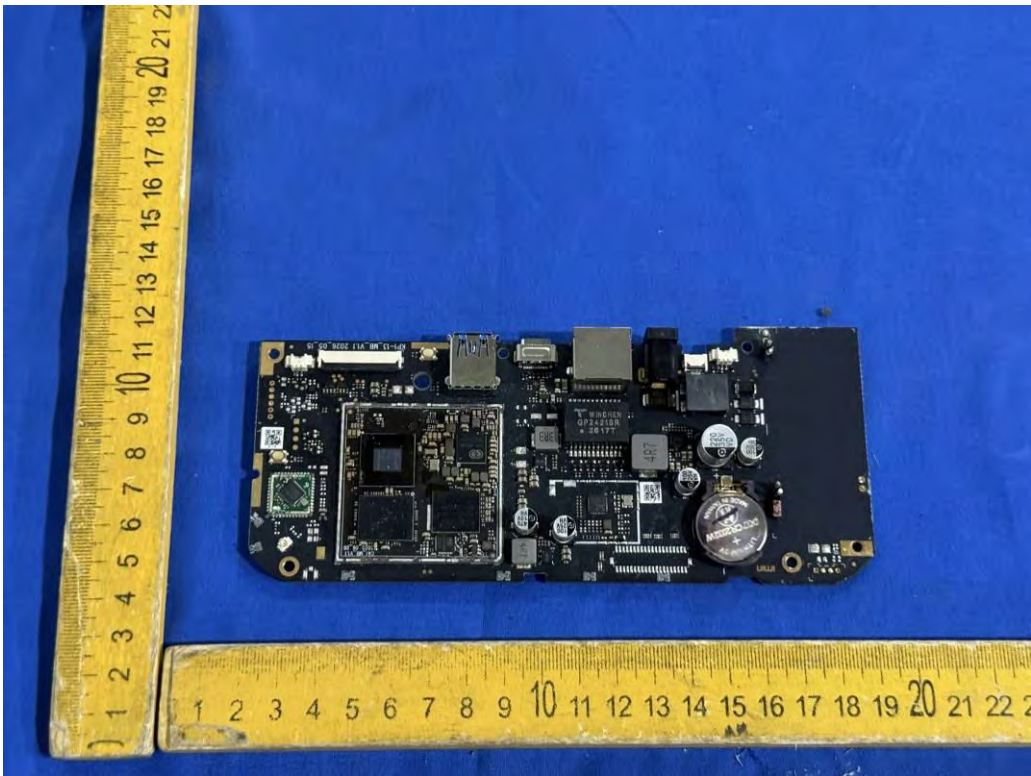


Fig. 45

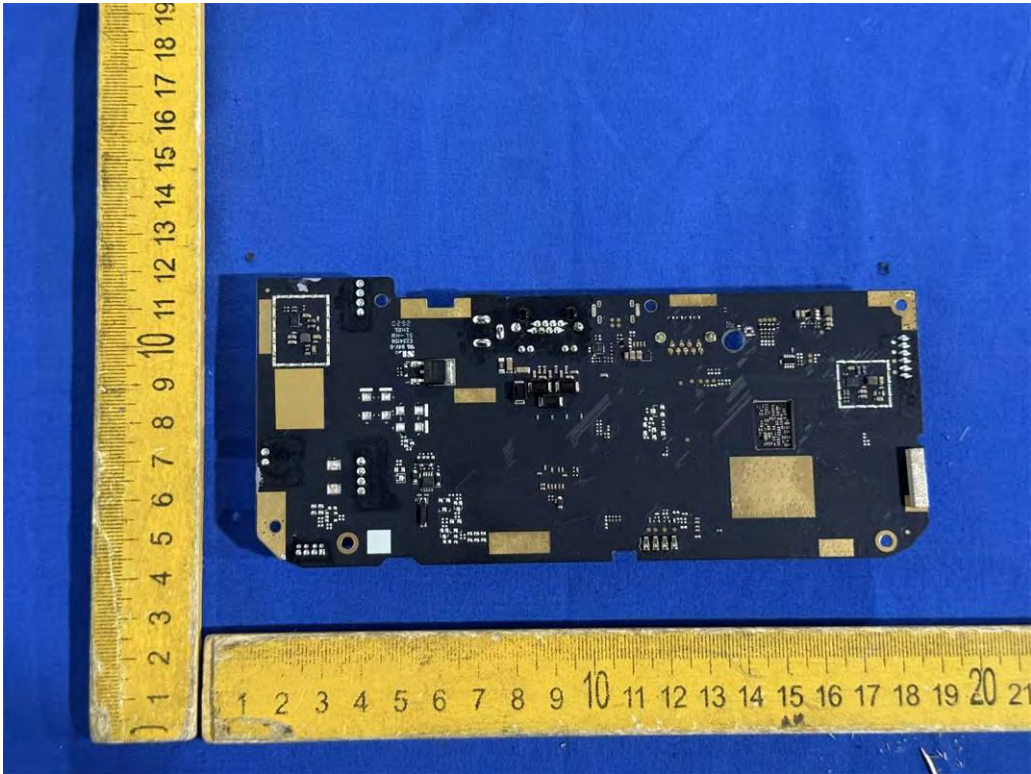


Fig. 46

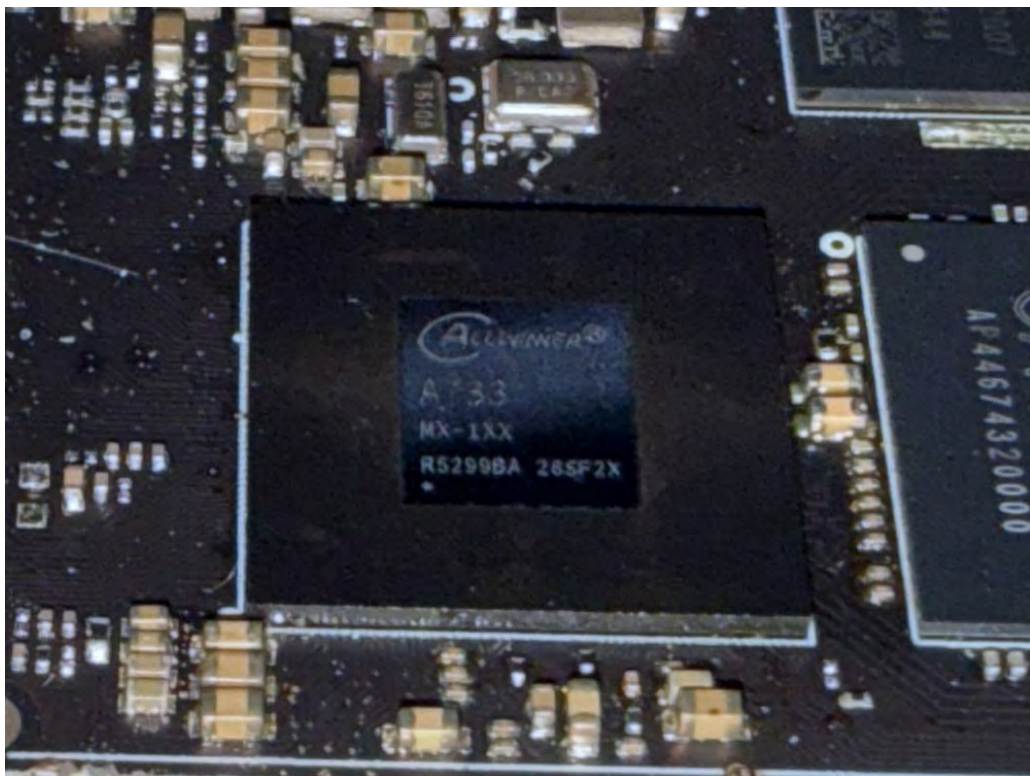


Fig. 47

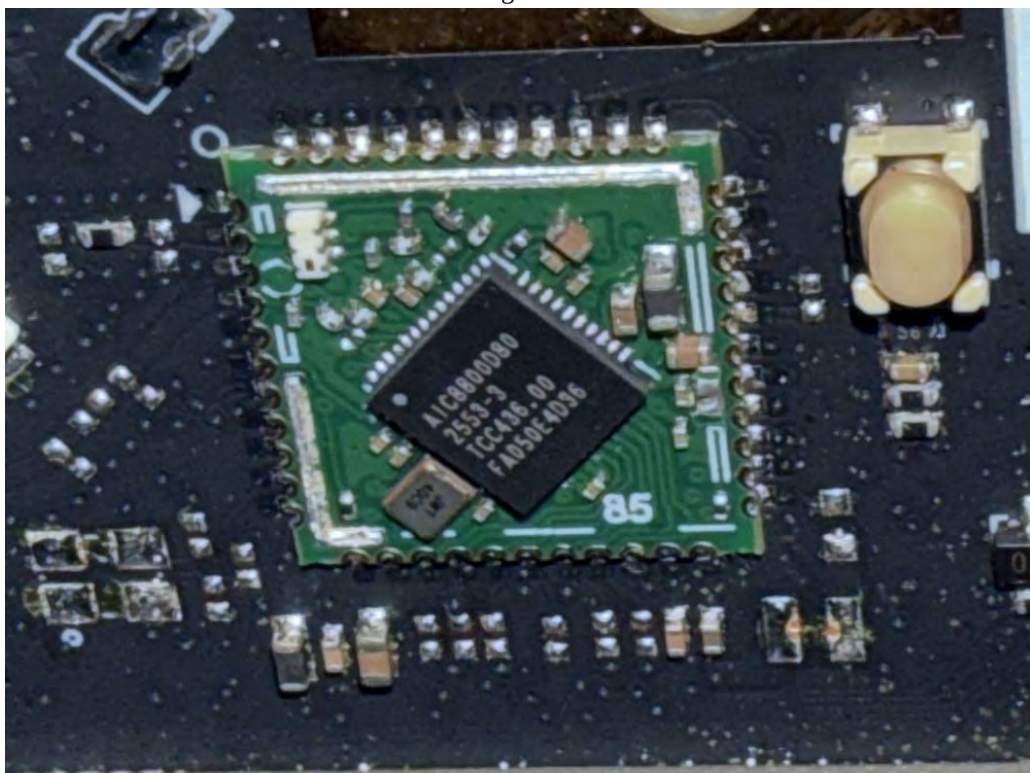


Fig. 48

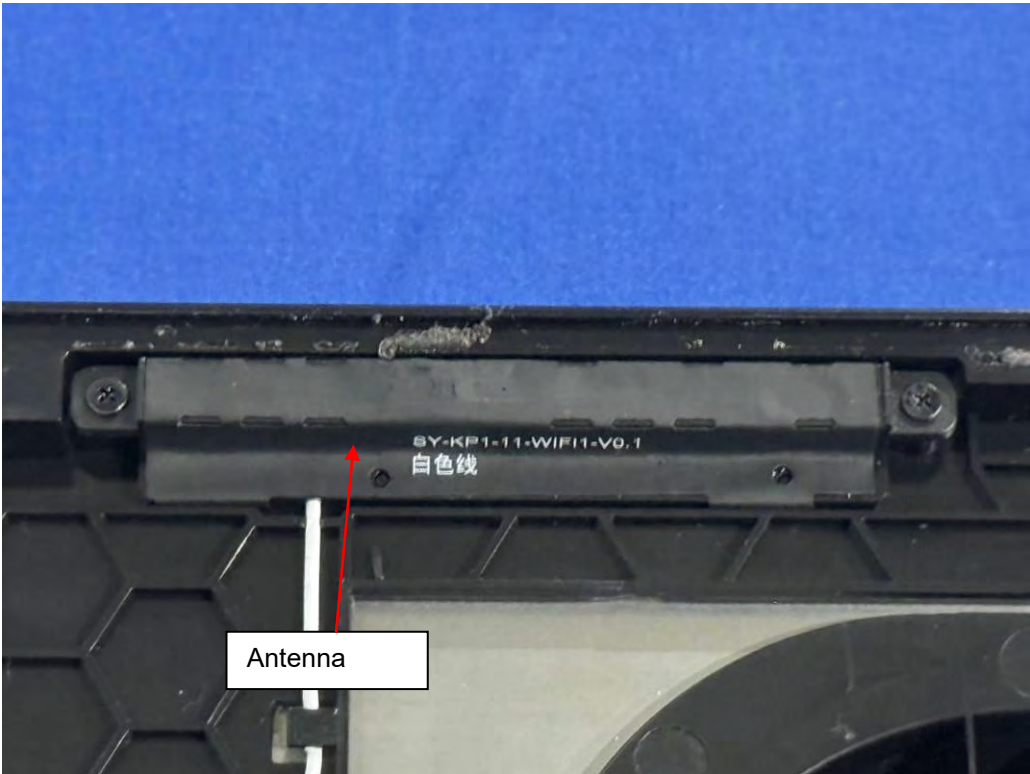


Fig. 49



Fig. 50

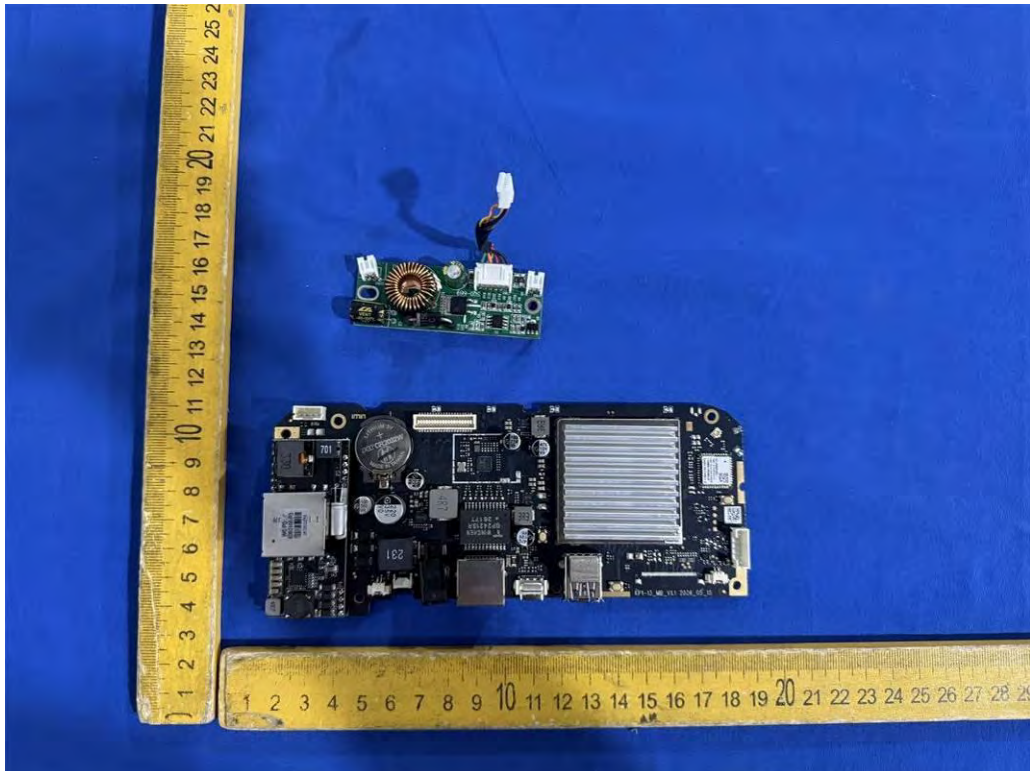


Fig. 51

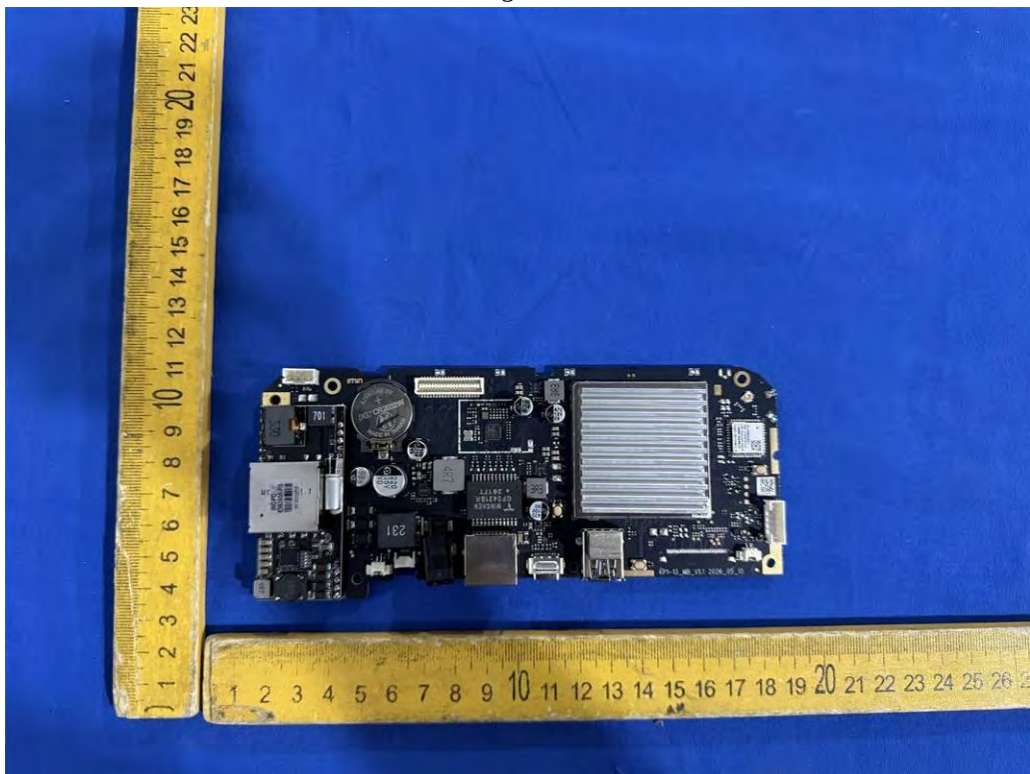


Fig. 52

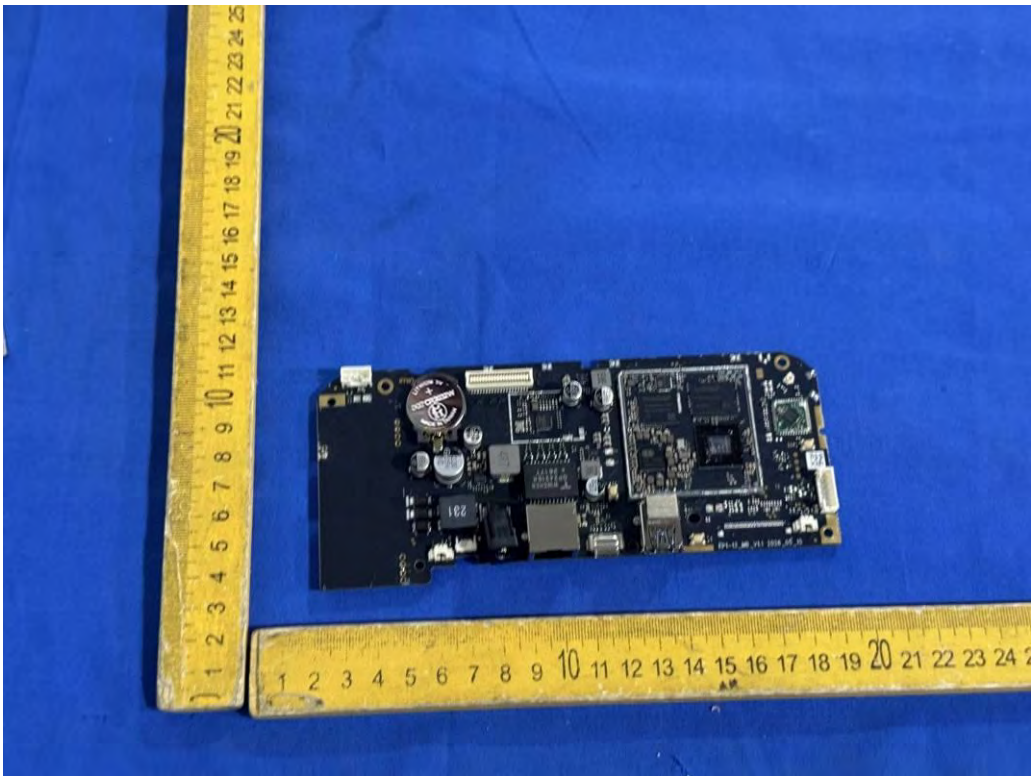


Fig. 53



Fig. 54



Fig. 55



Fig. 56

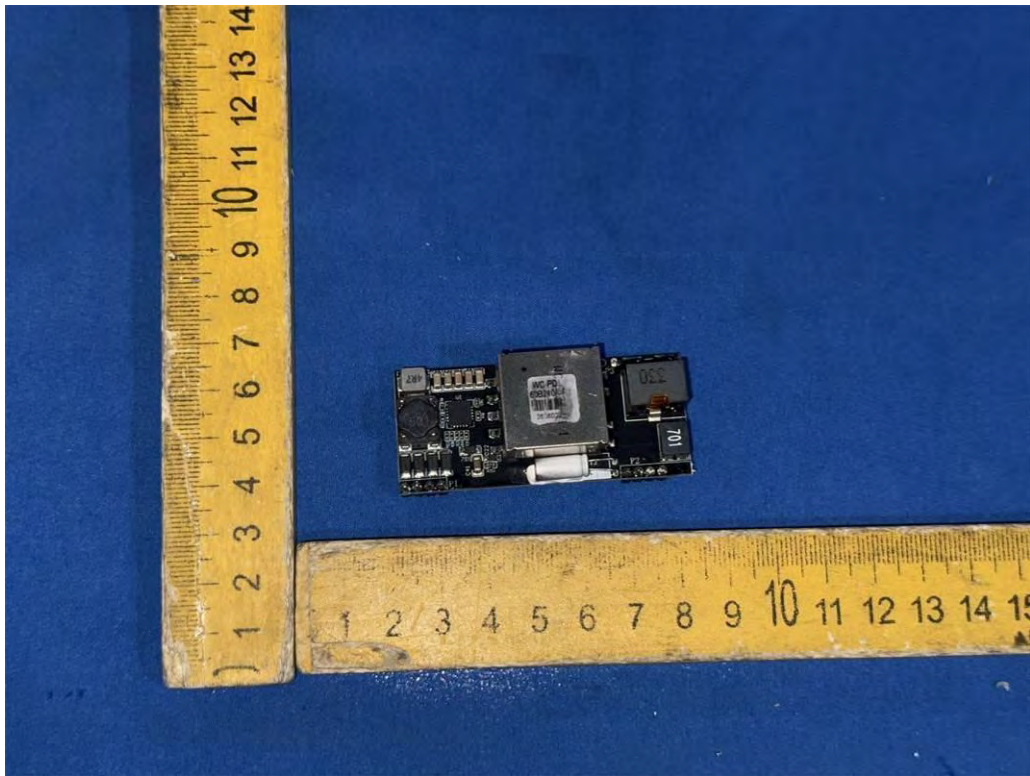


Fig. 57

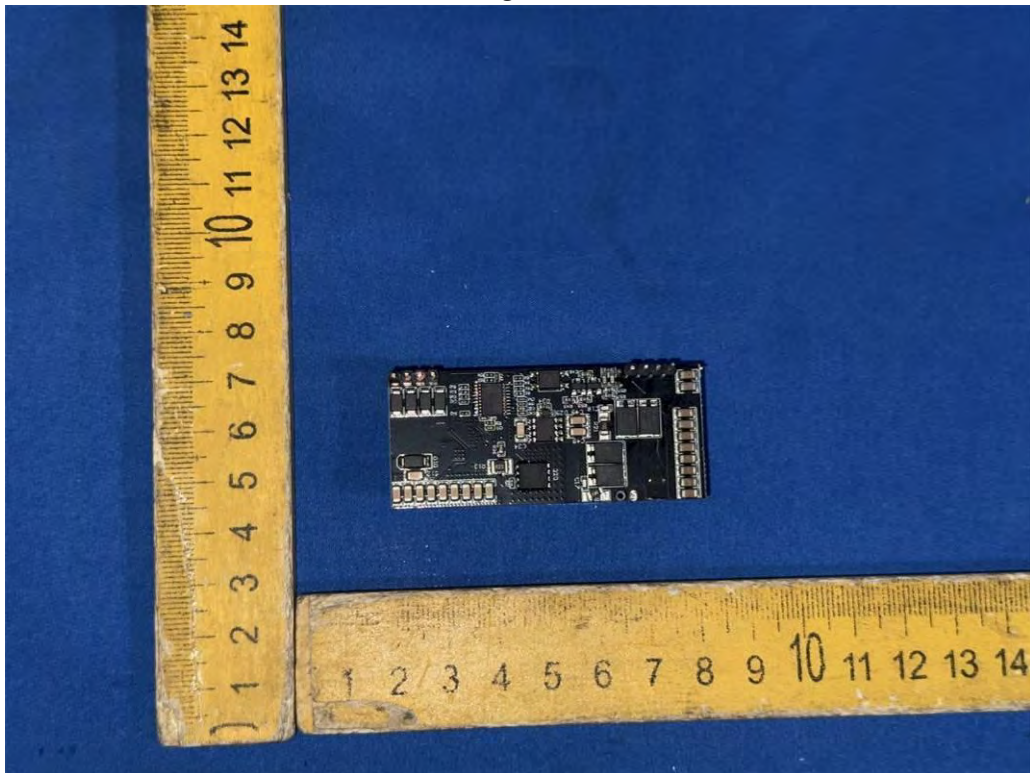


Fig. 58

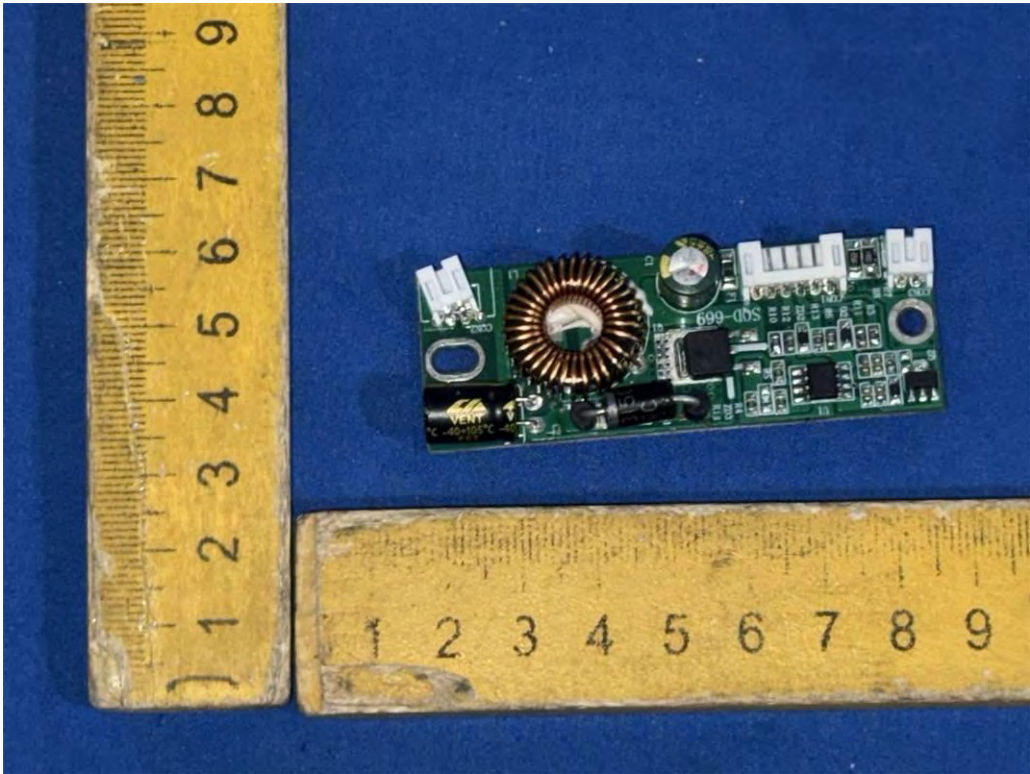


Fig. 59

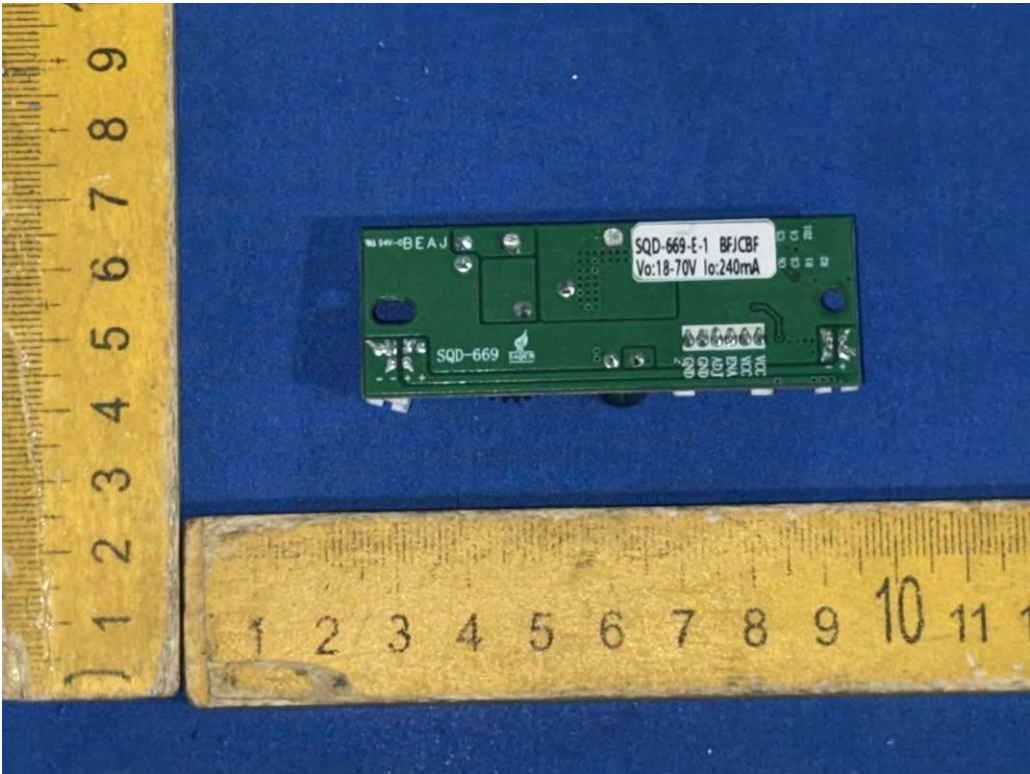


Fig. 60

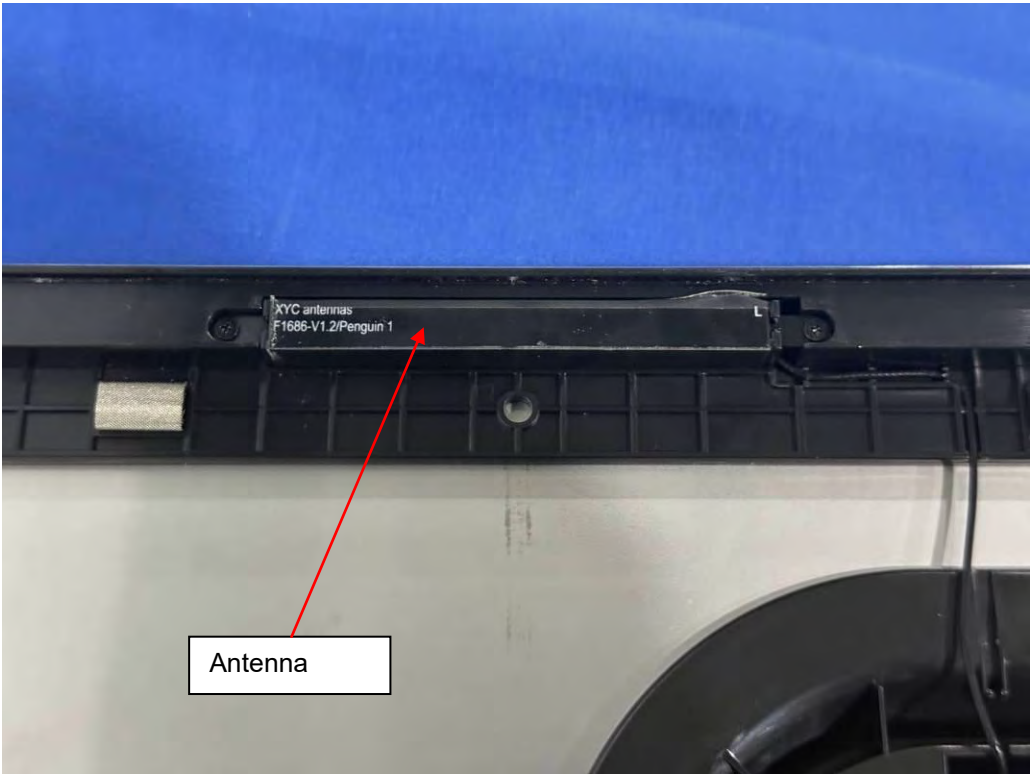


Fig. 61



Fig. 62

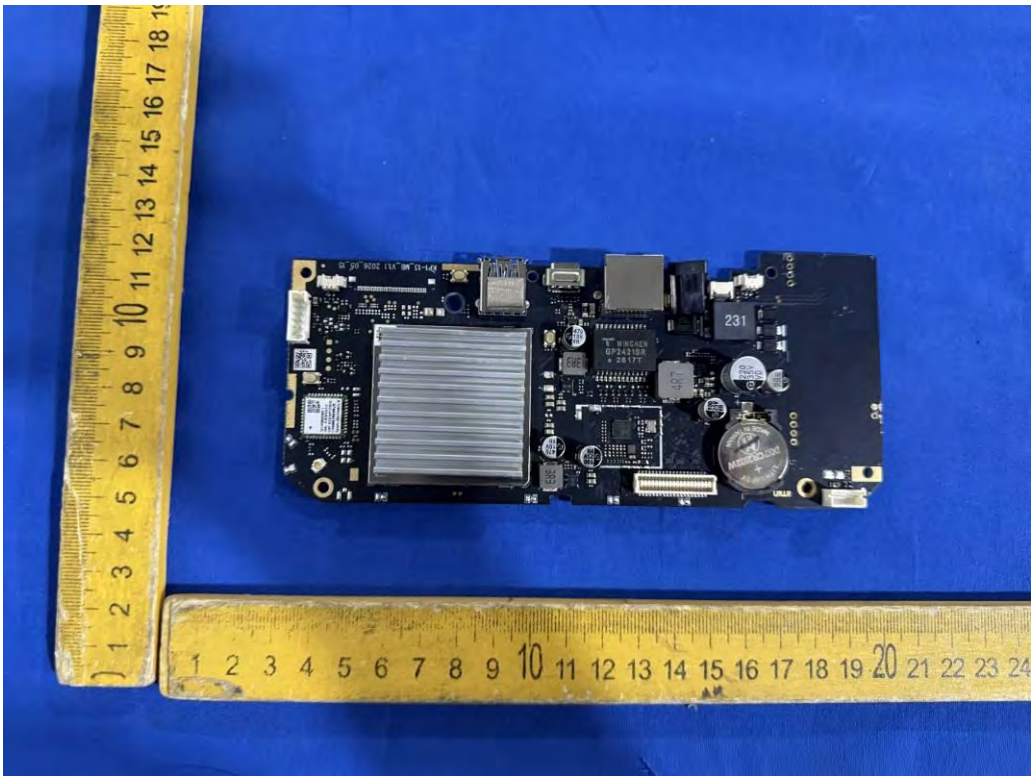


Fig. 63

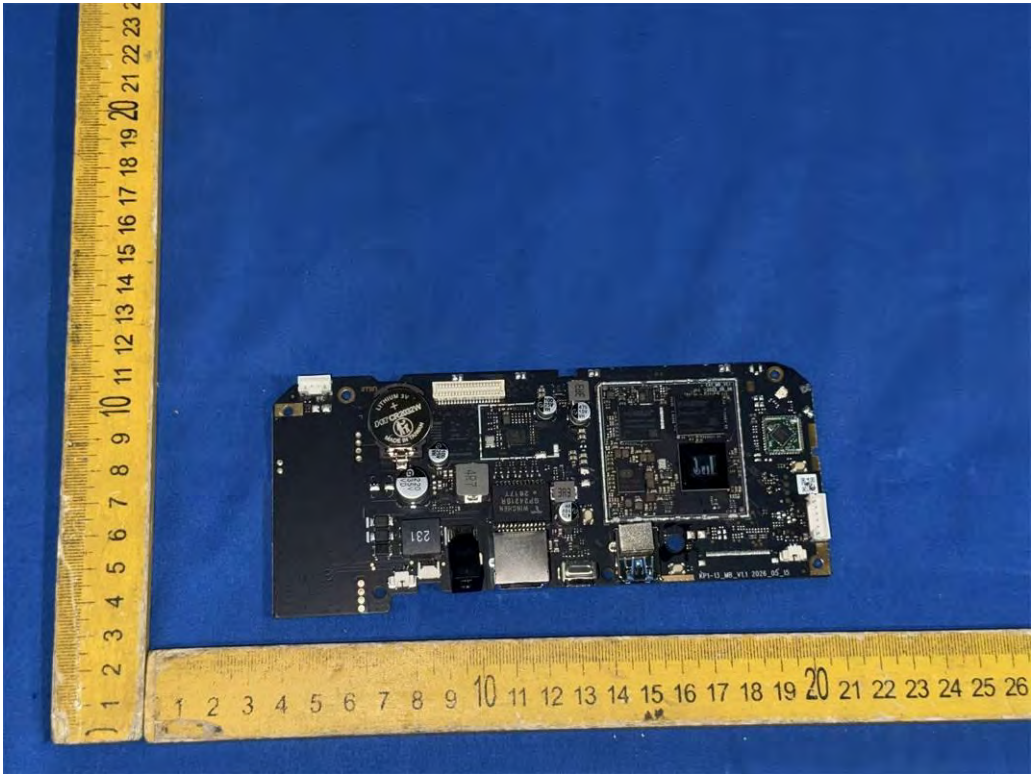


Fig. 64



Fig. 65



Fig. 66

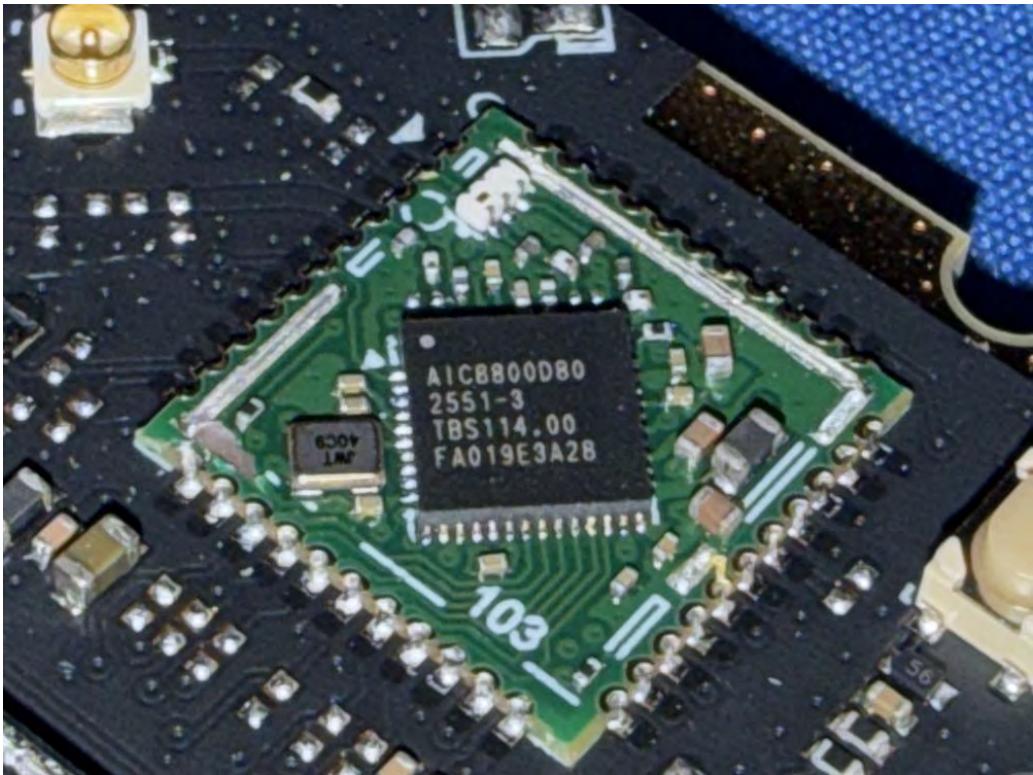


Fig. 67

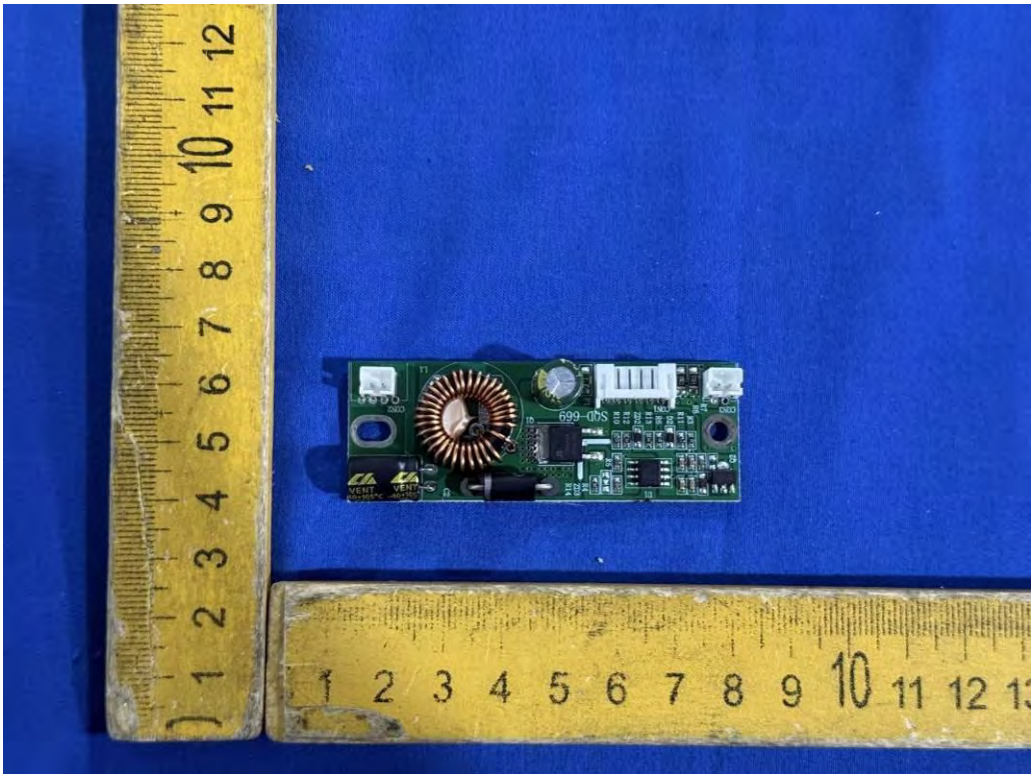


Fig. 68

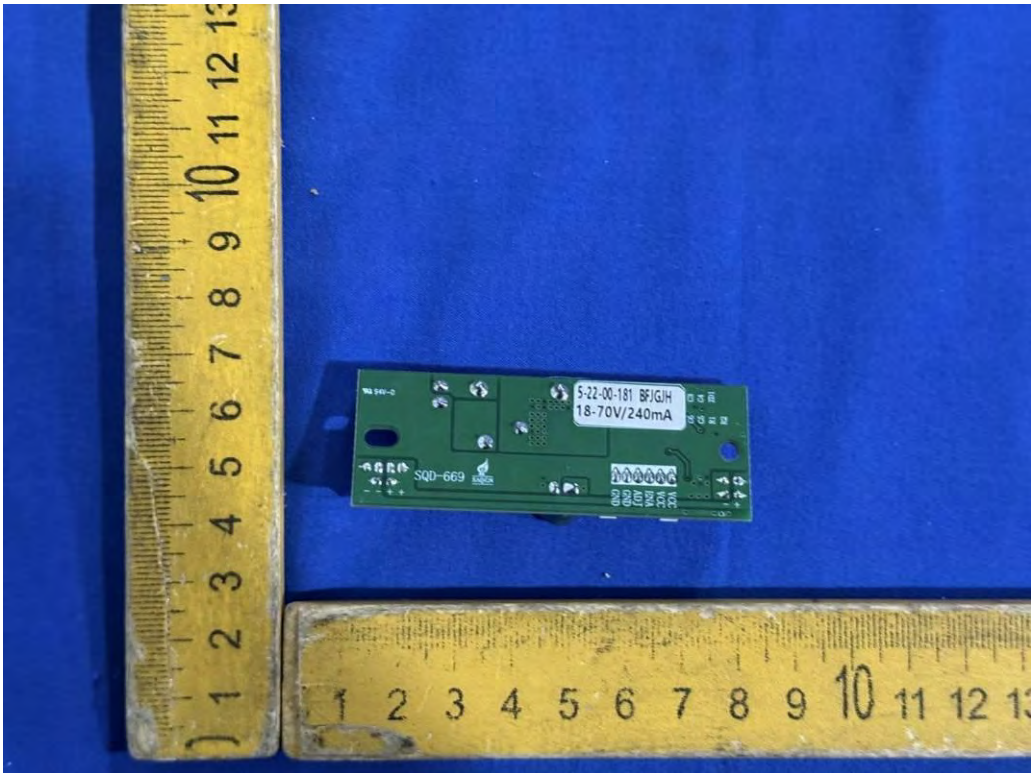


Fig. 69

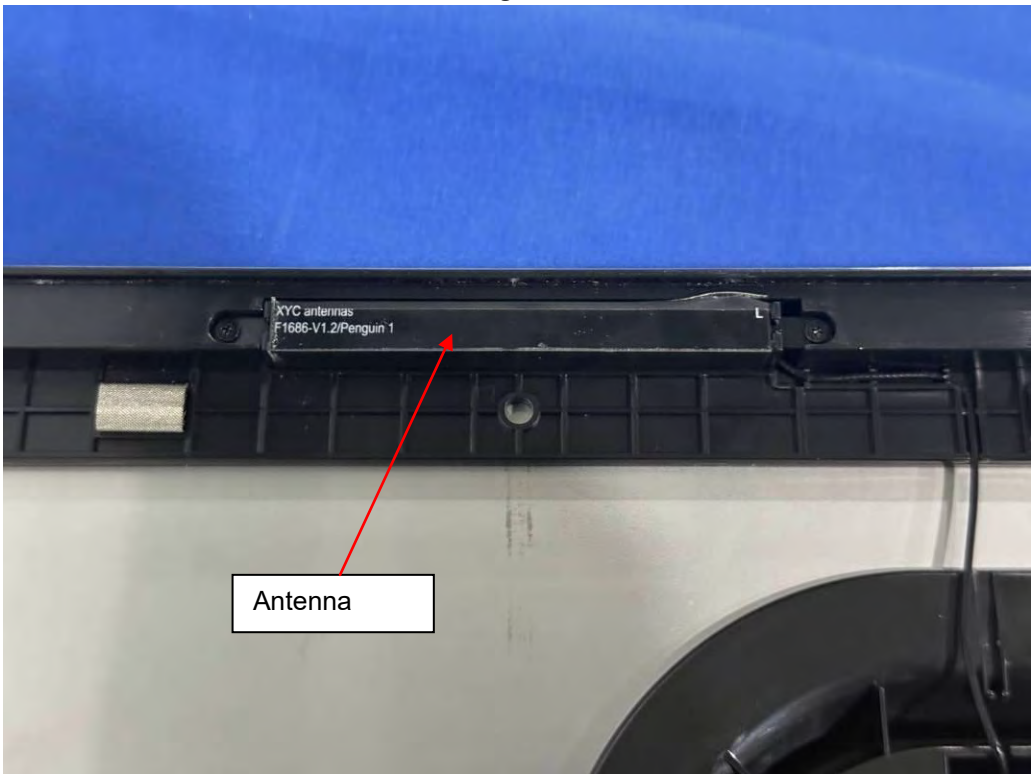


Fig. 70

.....End of Report.....