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.....:	**CTA24103100102**
FCC ID..... :	**2AYD5-I24D02**
Compiled by (position+printed name+signature) .:	File administrators Jinghua Xiao
Supervised by (position+printed name+signature) .:	Test Engineer Lushan Kong
Approved by (position+printed name+signature) .:	Manager Eric Wang
Date of issue .....:	Sep.20, 2024
Representative 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.....:	**Imin Technology Pte Ltd**
Address .....:	11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943
Test specification.....**:**	
Standard.....:	**FCC Part 15.247**
TRF Originator.....:	Shenzhen Global Test Service Co.,Ltd.
Master TRF .....:	Dated 2014-12

Test item description .....:	**POS Device**
Trade Mark .....:	iMin
Manufacturer .....:	Imin Technology Pte Ltd
Model/Type reference .....:	I24D02
Listed Models .....:	N/A
Modulation Type.....:	GFSK
Operation Frequency.....:	From 2402MHz to 2480MHz
Hardware Version .....:	N/A
Software Version .....:	N/A
Rating .....:	DC 24V/1.5A by adapter
Result .....:	**PASS**

TEST REPORT

Test Report No. :	**CTA24103100102**	Sep.20, 2024 Date of issue

Equipment under Test	:	POS Device
Model /Type	:	I24D02
Listed model	:	N/A
Applicant	:	**Imin Technology Pte Ltd**
Address	:	11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943
Manufacturer	:	**Imin Technology Pte Ltd**
Address	:	11 Bishan Street 21, #03-05 Bosch Building, 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.

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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: American National Standard for Testing Unlicensed Wireless Devices
KDB 558074 D01 DTS Meas Guidance: 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	:	Aug.29, 2024
Testing commenced on	:	Aug.29, 2024
Testing concluded on	:	Sep.19, 2024

2.2. Product Description

Product Name:	POS Device
Trade Mark:	iMin
Model/Type reference:	I24D02
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 24V/1.5A by adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	CTA241031001-S0001-3# CTA241031001-S0001-4#(Version A) CTA241031001-S0001-5#(Version B) CTA241031001-S0001-6#(Version C) CTA241031001-S0001-7#(Version D)
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, π/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	5180-5240MHz/ 5260MHz 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 802.11ac VHT20: 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 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT80: 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	Internal Antenna, 2.05dBi(Max.) for 2.4G Band and 3.87dBi(Max.) for 5G Band
RFID(13.56MHz) (Optional)	
Frequency Range	13.56MHz
Channel Number	1
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.), NFC has two optional antennas, antenna 1(Model:DS2-52) and antenna 2 (Model:DS2-51).
Remark:The I24D02 model has 4 versions; Version A: One large display and one small display(large display+ 10 inch small display) Version B: Only one large display Version C: Double large display Version D: One large display and one small display (large display+ 5 inch small display)	

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

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

This is a POS Device.
For more details, refer to the user's manual of the EUT.

2.5. EUT operation mode

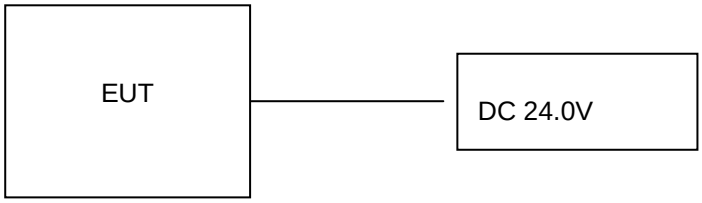
The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 40 channels provided to the EUT. Channel 00/19/39 was selected to test.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)
(BLE)	2402	1
	2440	1
	2480	1
For Conducted Emission		
Test Mode	TX Mode	
For Radiated Emission		
Test Mode	TX Mode	

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	**2402**	20	2442
1	2404	21	2444
2	2406	22	2446
--	--	--	--
--	--	--	--
18	2438	38	2478
19	**2440**	**39**	**2480**

The EUT has been tested under operating condition.
This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.
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, which was determined to be BT LE mode (MCH).
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 BT LE mode(MCH).

2.6. Block Diagram of Test Setup



2.7. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (XWHammer) provided by application.

2.8. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN HONOR ELECTRONIC CO.,LTD.	Adapter	ADS-65HI-19A-124036F	--	SDOC
Shenzhen SOY Technology Co.,Ltd.	Adapter	SOY-2400150-332-A	--	SDOC
Jiangsu Chenyang Electron Co.,Ltd.	Adapter	CYZS36-240150	--	SDOC
LENOVO	PC	DESKYOP-EUIVCNR	--	SDOC
LENOVO	Keyboard	T460S	--	SDOC
LENOVO	Mouse	Howard	--	SDOC
aigo	USB flash disk	U330	--	SDOC
THTF	Display	LE23CW-D	--	SDOC
SONY	Earphone	MDR-XB550AP	--	SDOC
--	Electronic Scale	--	--	SDOC
--	Cashbox	--	--	SDOC

Note: The PC, Display, Electronic Scale, Cashbox, Keyboard, Mouse and USB flash disk is only used for auxiliary testing.

2.9. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
USB Port	5	N/A
LAN Port	1	Non-Shielded, 10m
RJ11 Port	1	N/A
RJ12 Port	1	N/A
HDMI Port	1	N/A
Type-C Port	1	N/A
Earphone Port	1	N/A

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

This submittal(s) (test report) is intended for **FCC ID: 2AYD5-I24D02** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.11. 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:

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 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)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)

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

3.5. Test Description

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	CTA241031001-S0001-3#	/	/
§15.247(b)	Maximum Conducted Output Power	CTA241031001-S0001-3#	Compliant	Appendix B
§15.247(e)	Power Spectral Density	CTA241031001-S0001-3#	Compliant	Appendix B
§15.247(a)(2)	6dB Bandwidth	CTA241031001-S0001-3#	Compliant	Appendix B
§2.1047	99% Occupied Bandwidth	CTA241031001-S0001-3#	Compliant	Appendix B
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	CTA241031001-S0001-3#	Compliant	Appendix B
§15.209, §15.247(d)	Radiated Spurious Emissions	CTA241031001-S0001-3# CTA241031001-S0001-4# CTA241031001-S0001-5# CTA241031001-S0001-6# CTA241031001-S0001-7#	Compliant	Note 1
§15.205	Emissions at Restricted Band	CTA241031001-S0001-3#	Compliant	Appendix B
§15.207(a)	AC Conducted Emissions	CTA241031001-S0001-4# CTA241031001-S0001-5# CTA241031001-S0001-6# CTA241031001-S0001-7#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	CTA241031001-S0001-3#	Compliant	Note 1
§15.247(i)§2.1091	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

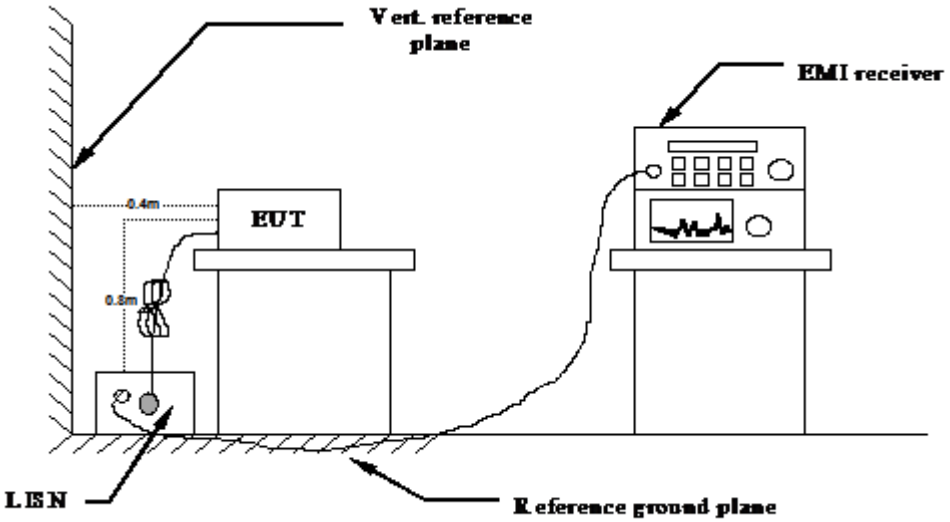
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2024/08/02	2025/08/02
LISN	R&S	ENV216	CTA-314	2024/08/02	2025/08/02
EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/02	2025/08/02
EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/02	2025/08/02
Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/02	2025/08/02
Spectrum Analyzer	R&S	FSP	CTA-337	2024/08/02	2025/08/02
Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/02	2025/08/02
Analog Signal Generator	R&S	SML03	CTA-304	2024/08/02	2025/08/02
Universal Radio Communication	CMW500	R&S	CTA-302	2024/08/02	2025/08/02
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/02	2025/08/02
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2024/08/02	2025/08/02
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2024/08/02	2025/08/02
Loop Antenna	Zhinan	ZN30900C	CTA-311	2024/08/02	2025/08/02
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2024/08/06	2027/08/05
Antenna Tower	Suzhou Keletuo electronic Technology Co., LTD	BK-*AT-BS	N/A	N/A	N/A
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/02	2025/08/02
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/02	2025/08/02
Directional coupler	NARDA	4226-10	CTA-303	2024/08/02	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/02	2025/08/02
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/02	2025/08/02
Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/02	2025/08/02
Power Sensor	Agilent	U2021XA	CTA-405	2024/08/02	2025/08/02
Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/02	2025/08/02

Note: 1. 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.
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 DC 24V 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.
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.		

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 (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

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

TEST RESULTS

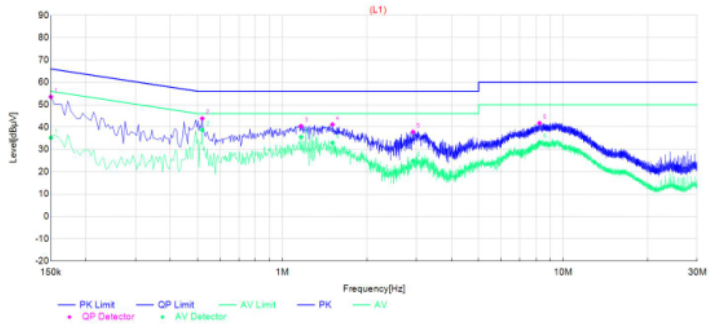
Remark: We measured Conducted Emission at GFSK mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	25℃	Humidity	60%
Test Engineer	Lushan Kong	Configurations	BT

Version A:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

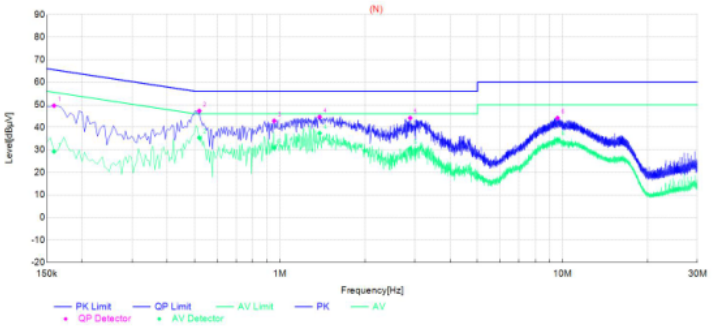
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	43.14	24.82	10.35	53.49	35.17	66.00	56.00	12.51	20.83	L1	PASS
2	0.519	33.57	28.44	10.24	43.81	38.68	56.00	46.00	12.19	7.32	L1	PASS
3	1.167	30.20	25.29	10.21	40.41	35.50	56.00	46.00	15.59	10.50	L1	PASS
4	1.509	30.88	22.69	10.24	41.12	32.93	56.00	46.00	14.88	13.07	L1	PASS
5	2.922	27.48	14.57	10.33	37.81	24.90	56.00	46.00	18.19	21.10	L1	PASS
6	8.2365	31.16	22.56	10.57	41.73	33.13	60.00	50.00	18.27	16.87	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	39.26	18.94	10.31	49.57	29.25	65.52	55.52	15.95	26.27	N	PASS
2	0.519	37.00	25.12	10.24	47.24	35.36	56.00	46.00	8.76	10.64	N	PASS
3	0.9555	32.67	20.77	10.20	42.87	30.97	56.00	46.00	13.13	15.03	N	PASS
4	1.383	34.37	27.14	10.23	44.60	37.37	56.00	46.00	11.40	8.63	N	PASS
5	2.8905	33.79	20.27	10.33	44.12	30.60	56.00	46.00	11.88	15.40	N	PASS
6	9.6	33.55	23.89	10.57	44.12	34.46	60.00	50.00	15.88	15.54	N	PASS

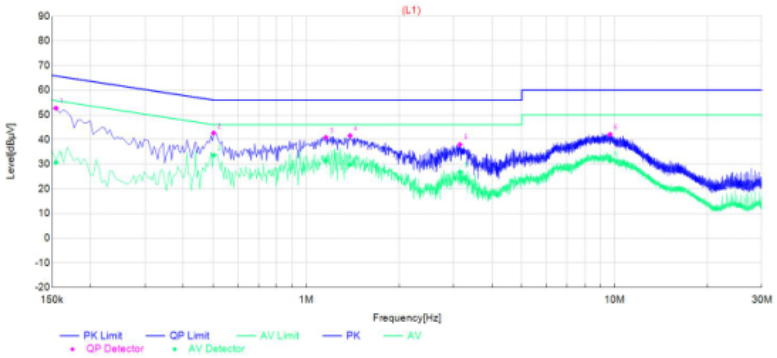
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

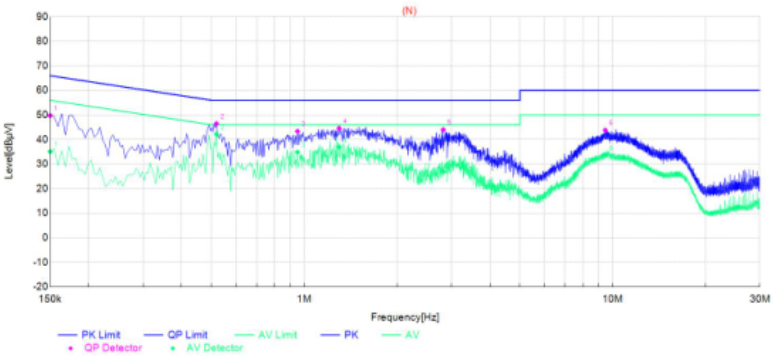
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	42.37	20.34	10.33	52.70	30.67	65.75	55.75	13.05	25.08	L1	PASS
2	0.501	32.36	23.34	10.25	42.61	33.59	56.00	46.00	13.39	12.41	L1	PASS
3	1.158	30.63	21.24	10.21	40.84	31.45	56.00	46.00	15.16	14.55	L1	PASS
4	1.3875	31.30	19.55	10.23	41.53	29.78	56.00	46.00	14.47	16.22	L1	PASS
5	3.1515	27.59	16.47	10.34	37.93	26.81	56.00	46.00	18.07	19.19	L1	PASS
6	9.6585	31.46	20.85	10.57	42.03	31.42	60.00	50.00	17.97	18.58	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	39.39	24.71	10.35	49.74	35.06	66.00	56.00	16.26	20.94	N	PASS
2	0.519	36.24	31.93	10.24	46.48	42.17	56.00	46.00	9.52	3.83	N	PASS
3	0.951	33.13	24.62	10.21	43.34	34.83	56.00	46.00	12.66	11.17	N	PASS
4	1.2975	34.38	26.73	10.22	44.60	36.95	56.00	46.00	11.40	9.05	N	PASS
5	2.823	33.67	16.58	10.33	44.00	26.91	56.00	46.00	12.00	19.09	N	PASS
6	9.456	33.24	23.01	10.56	43.80	33.57	60.00	50.00	16.20	16.43	N	PASS

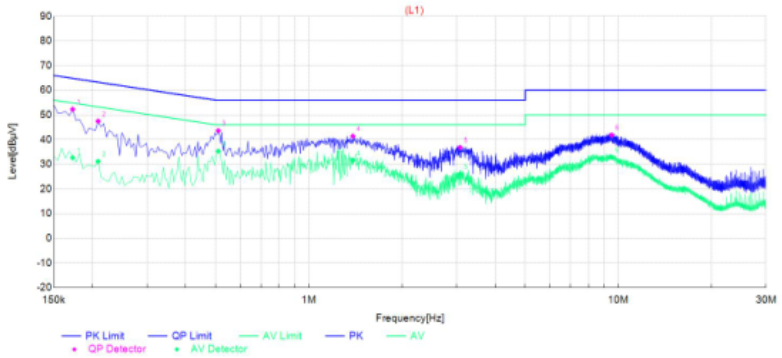
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

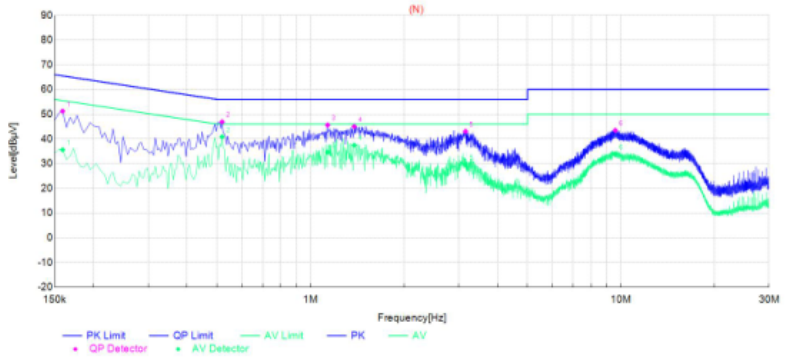
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1725	42.04	22.42	10.24	52.28	32.66	64.84	54.84	12.56	22.18	L1	PASS
2	0.2085	37.32	21.02	10.15	47.47	31.17	63.26	53.26	15.79	22.09	L1	PASS
3	0.51	33.35	25.08	10.25	43.60	35.33	56.00	46.00	12.40	10.67	L1	PASS
4	1.3875	31.16	21.37	10.23	41.39	31.60	56.00	46.00	14.61	14.40	L1	PASS
5	3.0795	26.45	15.76	10.34	36.79	26.10	56.00	46.00	19.21	19.90	L1	PASS
6	9.5055	31.28	22.25	10.56	41.84	32.81	60.00	50.00	18.16	17.19	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	40.91	25.28	10.31	51.22	35.59	65.52	55.52	14.30	19.93	N	PASS
2	0.519	36.64	30.63	10.24	46.88	40.87	56.00	46.00	9.12	5.13	N	PASS
3	1.1355	35.41	24.45	10.21	45.62	34.66	56.00	46.00	10.38	11.34	N	PASS
4	1.383	34.80	27.21	10.23	45.03	37.44	56.00	46.00	10.97	8.56	N	PASS
5	3.156	32.71	19.28	10.34	43.05	29.62	56.00	46.00	12.95	16.38	N	PASS
6	9.5865	32.88	23.13	10.57	43.45	33.70	60.00	50.00	16.55	16.30	N	PASS

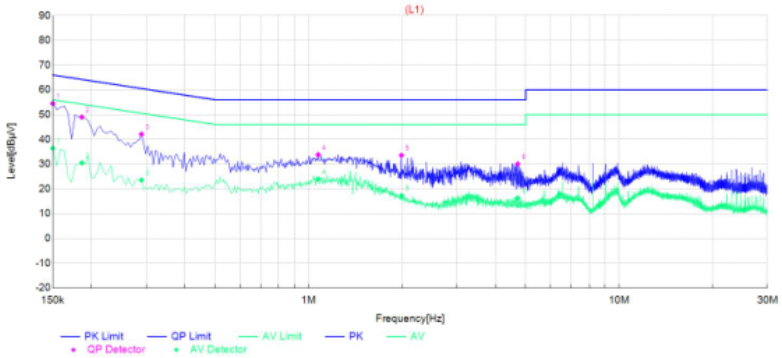
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Version B:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

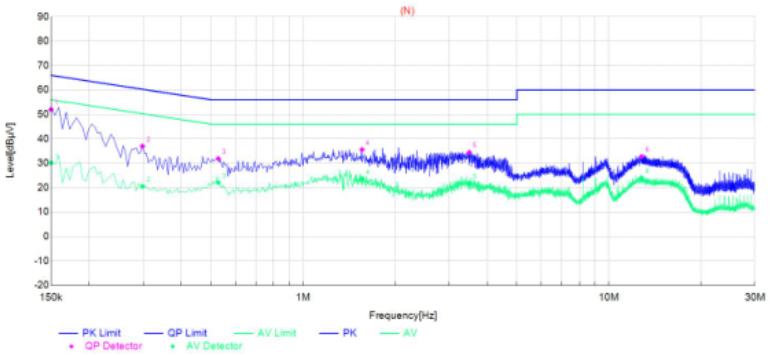
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	44.12	26.07	10.35	54.47	36.42	66.00	56.00	11.53	19.58	L1	PASS
2	0.186	38.80	20.29	10.18	48.98	30.47	64.21	54.21	15.23	23.74	L1	PASS
3	0.2895	31.99	13.46	10.10	42.09	23.56	60.54	50.54	18.45	26.98	L1	PASS
4	1.0725	23.62	13.81	10.21	33.83	24.02	56.00	46.00	22.17	21.98	L1	PASS
5	1.9905	23.28	7.04	10.27	33.55	17.31	56.00	46.00	22.45	28.69	L1	PASS
6	4.713	19.71	5.93	10.35	30.06	16.28	56.00	46.00	25.94	29.72	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	41.65	19.79	10.35	52.00	30.14	66.00	56.00	14.00	25.86	N	PASS
2	0.2985	26.86	10.36	10.10	36.96	20.46	60.28	50.28	23.32	29.82	N	PASS
3	0.528	21.62	11.82	10.23	31.85	22.05	56.00	46.00	24.15	23.95	N	PASS
4	1.5585	25.33	13.16	10.24	35.57	23.40	56.00	46.00	20.43	22.60	N	PASS
5	3.4935	24.08	11.45	10.35	34.43	21.80	56.00	46.00	21.57	24.20	N	PASS
6	12.768	21.82	13.07	10.89	32.71	23.96	60.00	50.00	27.29	26.04	N	PASS

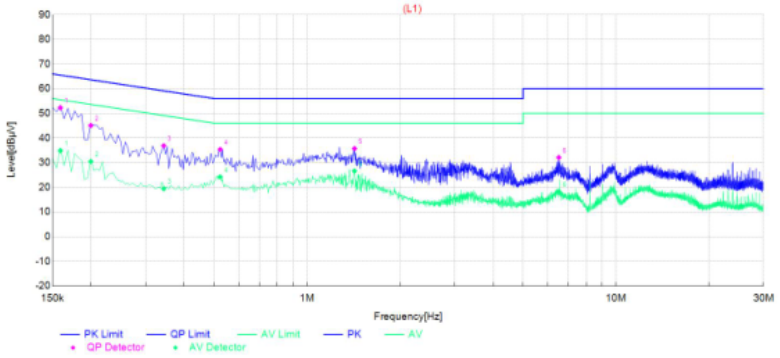
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

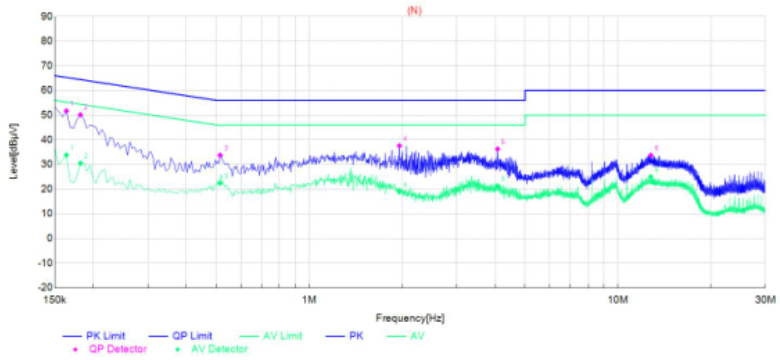
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	41.98	24.58	10.31	52.29	34.89	65.52	55.52	13.23	20.63	L1	PASS
2	0.1995	34.93	20.33	10.15	45.08	30.48	63.63	53.63	18.55	23.15	L1	PASS
3	0.3435	26.72	9.29	10.13	36.85	19.42	59.12	49.12	22.27	29.70	L1	PASS
4	0.5235	25.12	13.95	10.24	35.36	24.19	56.00	46.00	20.64	21.81	L1	PASS
5	1.4235	25.48	16.39	10.23	35.71	26.62	56.00	46.00	20.29	19.38	L1	PASS
6	6.5265	21.59	7.72	10.50	32.09	18.22	60.00	50.00	27.91	31.78	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1635	41.42	23.52	10.29	51.71	33.81	65.28	55.28	13.57	21.47	N	PASS
2	0.1815	39.93	20.26	10.20	50.13	30.46	64.42	54.42	14.29	23.96	N	PASS
3	0.5145	23.47	12.16	10.24	33.71	22.40	56.00	46.00	22.29	23.60	N	PASS
4	1.959	27.29	8.58	10.27	37.56	18.85	56.00	46.00	18.44	27.15	N	PASS
5	4.074	25.87	10.93	10.37	36.24	21.30	56.00	46.00	19.76	24.70	N	PASS
6	12.768	22.82	14.13	10.89	33.71	25.02	60.00	50.00	26.29	24.98	N	PASS

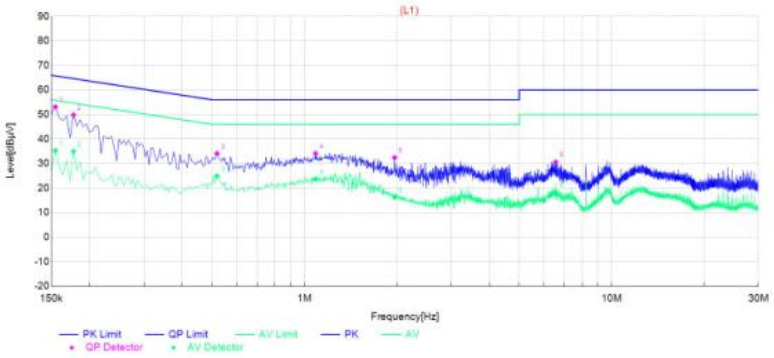
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

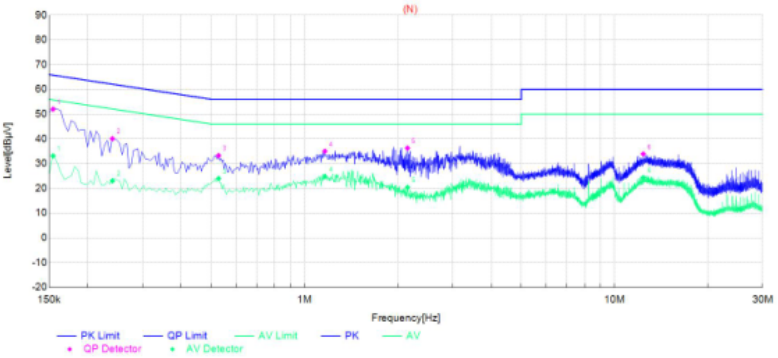
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	42.79	24.98	10.33	53.12	35.31	65.75	55.75	12.63	20.44	L1	PASS
2	0.177	39.61	24.75	10.22	49.83	34.97	64.63	54.63	14.80	19.66	L1	PASS
3	0.519	23.87	14.69	10.24	34.11	24.93	56.00	46.00	21.89	21.07	L1	PASS
4	1.086	23.88	13.39	10.21	34.09	23.60	56.00	46.00	21.91	22.40	L1	PASS
5	1.9635	22.17	5.90	10.27	32.44	16.17	56.00	46.00	23.56	29.83	L1	PASS
6	6.5715	20.11	7.83	10.50	30.61	18.33	60.00	50.00	29.39	31.67	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	41.69	22.81	10.33	52.02	33.14	65.75	55.75	13.73	22.61	N	PASS
2	0.24	29.94	12.90	10.13	40.07	23.03	62.10	52.10	22.03	29.07	N	PASS
3	0.528	23.03	13.74	10.23	33.26	23.97	56.00	46.00	22.74	22.03	N	PASS
4	1.1625	24.78	14.60	10.21	34.99	24.81	56.00	46.00	21.01	21.19	N	PASS
5	2.148	25.99	10.13	10.28	36.27	20.41	56.00	46.00	19.73	25.59	N	PASS
6	12.372	23.02	13.52	10.85	33.87	24.37	60.00	50.00	26.13	25.63	N	PASS

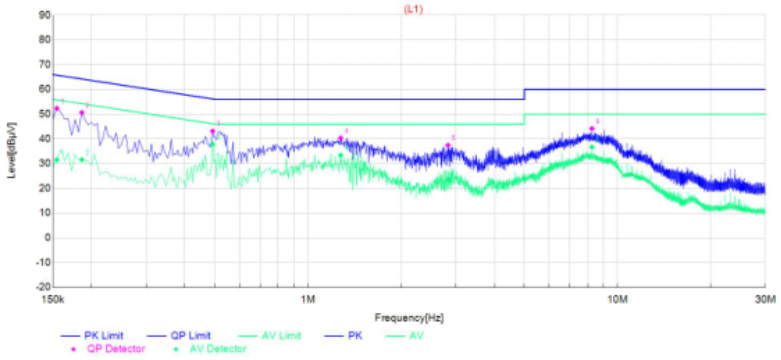
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Version C:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

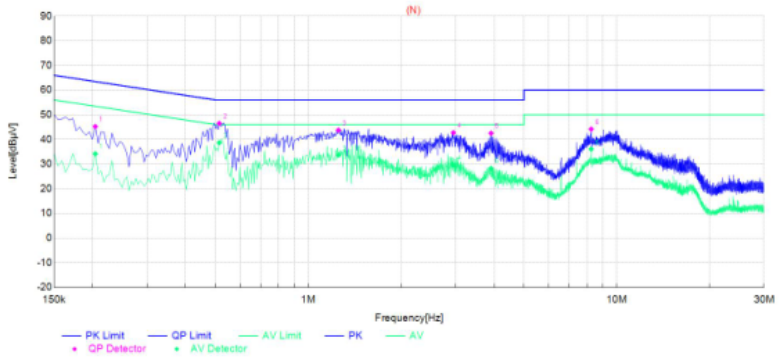
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	41.98	21.16	10.33	52.31	31.49	65.75	55.75	13.44	24.26	L1	PASS
2	0.186	40.46	21.41	10.18	50.64	31.59	64.21	54.21	13.57	22.62	L1	PASS
3	0.492	32.87	27.58	10.26	43.13	37.84	56.13	46.13	13.00	8.29	L1	PASS
4	1.275	30.10	23.18	10.22	40.32	33.40	56.00	46.00	15.68	12.60	L1	PASS
5	2.832	27.10	13.23	10.33	37.43	23.56	56.00	46.00	18.57	22.44	L1	PASS
6	8.2635	33.59	26.09	10.57	44.16	36.66	60.00	50.00	15.84	13.34	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.204	35.08	24.00	10.15	45.23	34.15	63.45	53.45	18.22	19.30	N	PASS
2	0.5145	36.24	28.41	10.24	46.48	38.65	56.00	46.00	9.52	7.35	N	PASS
3	1.2525	33.53	23.44	10.22	43.75	33.66	56.00	46.00	12.25	12.34	N	PASS
4	2.9535	32.36	19.24	10.34	42.70	29.58	56.00	46.00	13.30	16.42	N	PASS
5	3.912	32.14	17.87	10.37	42.51	28.24	56.00	46.00	13.49	17.76	N	PASS
6	8.259	33.60	25.48	10.57	44.17	36.05	60.00	50.00	15.83	13.95	N	PASS

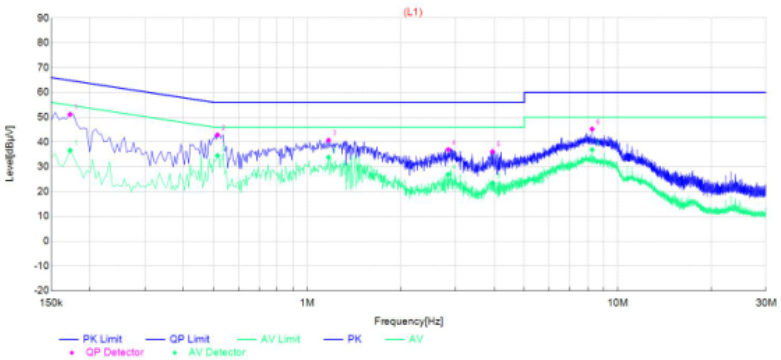
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

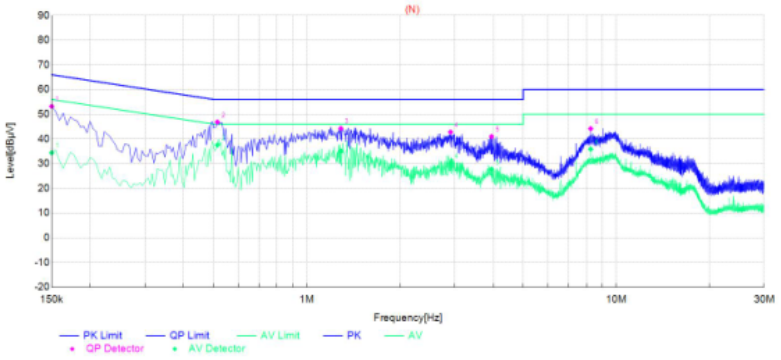
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1725	40.87	26.36	10.24	51.11	36.60	64.84	54.84	13.73	18.24	L1	PASS
2	0.5145	32.62	24.26	10.24	42.86	34.50	56.00	46.00	13.14	11.50	L1	PASS
3	1.1715	30.49	23.61	10.21	40.70	33.82	56.00	46.00	15.30	12.18	L1	PASS
4	2.8455	26.58	16.63	10.33	36.91	26.96	56.00	46.00	19.09	19.04	L1	PASS
5	3.9525	25.74	13.11	10.37	36.11	23.48	56.00	46.00	19.89	22.52	L1	PASS
6	8.2635	34.62	26.28	10.57	45.19	36.85	60.00	50.00	14.81	13.15	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	42.85	24.02	10.35	53.20	34.37	66.00	56.00	12.80	21.63	N	PASS
2	0.5145	36.59	27.30	10.24	46.83	37.54	56.00	46.00	9.17	8.46	N	PASS
3	1.2885	34.05	24.85	10.22	44.27	35.07	56.00	46.00	11.73	10.93	N	PASS
4	2.913	32.42	19.93	10.33	42.75	30.26	56.00	46.00	13.25	15.74	N	PASS
5	3.9525	30.59	17.37	10.37	40.96	27.74	56.00	46.00	15.04	18.26	N	PASS
6	8.259	33.58	25.29	10.57	44.15	35.86	60.00	50.00	15.85	14.14	N	PASS

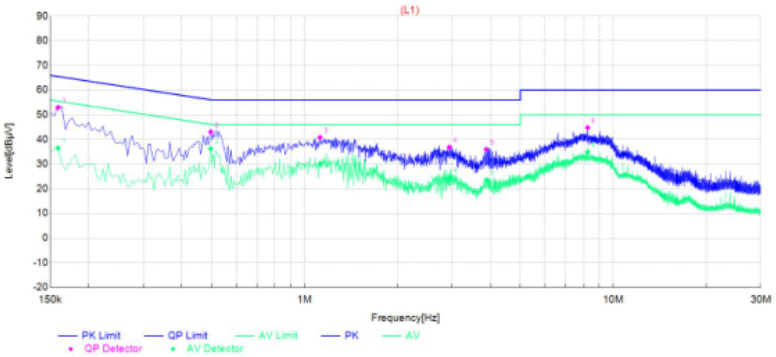
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



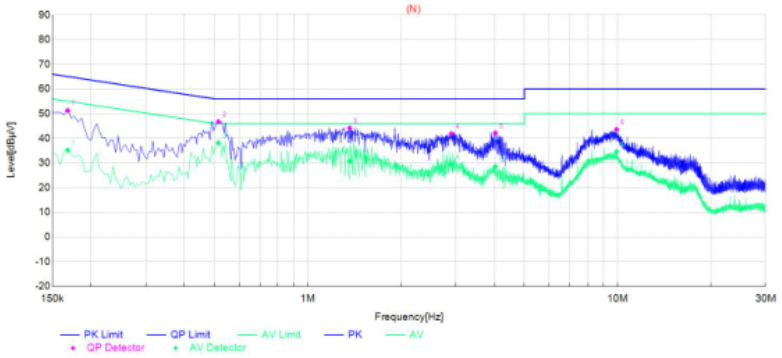
Final Data List												
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	42.60	26.16	10.31	52.91	36.47	65.52	55.52	12.61	19.05	L1	PASS
2	0.4965	32.80	25.96	10.25	43.05	36.21	56.06	46.06	13.01	9.85	L1	PASS
3	1.122	30.57	19.89	10.21	40.78	30.10	56.00	46.00	15.22	15.90	L1	PASS
4	2.9445	26.49	14.21	10.34	36.83	24.55	56.00	46.00	19.17	21.45	L1	PASS
5	3.876	25.53	13.10	10.37	35.90	23.47	56.00	46.00	20.10	22.53	L1	PASS
6	8.2545	34.20	24.30	10.57	44.77	34.87	60.00	50.00	15.23	15.13	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.168	41.00	24.94	10.27	51.27	35.21	65.06	55.06	13.79	19.85	N	PASS
2	0.5145	36.45	27.88	10.24	46.69	38.12	56.00	46.00	9.31	7.88	N	PASS
3	1.365	33.92	20.52	10.23	44.15	30.75	56.00	46.00	11.85	15.25	N	PASS
4	2.904	31.48	19.24	10.33	41.81	29.57	56.00	46.00	14.19	16.43	N	PASS
5	4.029	31.78	18.19	10.37	42.15	28.56	56.00	46.00	13.85	17.44	N	PASS
6	9.915	33.02	23.98	10.58	43.60	34.56	60.00	50.00	16.40	15.44	N	PASS

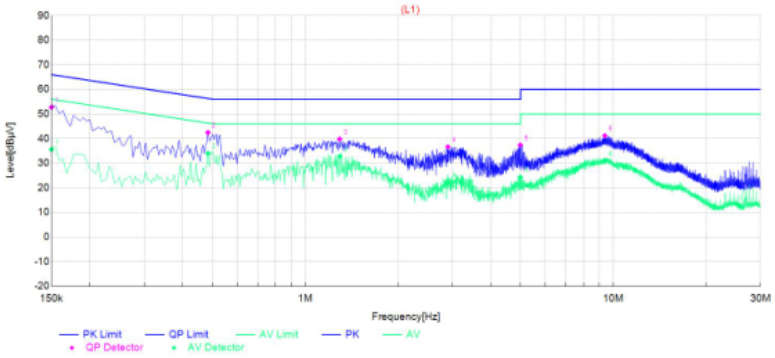
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Version D:
Adapter: ADS-65HI-19A-124036F

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

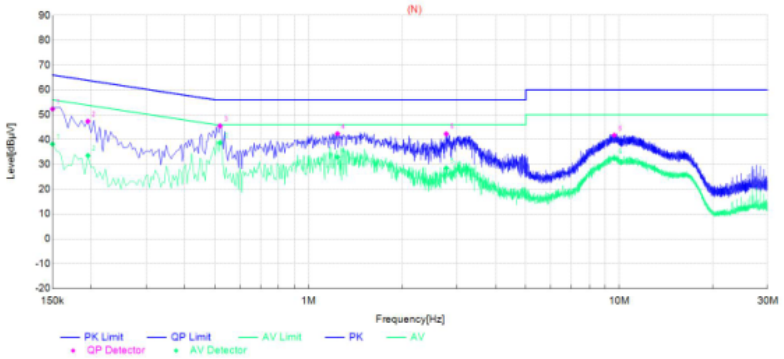
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	42.36	25.21	10.35	52.71	35.56	66.00	56.00	13.29	20.44	L1	PASS
2	0.483	32.22	23.72	10.25	42.47	33.97	56.29	46.29	13.82	12.32	L1	PASS
3	1.293	29.58	22.54	10.22	39.80	32.76	56.00	46.00	16.20	13.24	L1	PASS
4	2.904	26.27	12.08	10.33	36.60	22.41	56.00	46.00	19.40	23.59	L1	PASS
5	4.9875	27.02	13.97	10.34	37.36	24.31	56.00	46.00	18.64	21.69	L1	PASS
6	9.375	30.63	20.40	10.56	41.19	30.96	60.00	50.00	18.81	19.04	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	41.93	27.80	10.35	52.28	38.15	66.00	56.00	13.72	17.85	N	PASS
2	0.195	37.20	23.38	10.16	47.36	33.54	63.82	53.82	16.46	20.28	N	PASS
3	0.519	35.22	28.46	10.24	45.46	38.70	56.00	46.00	10.54	7.30	N	PASS
4	1.239	32.11	22.68	10.22	42.33	32.90	56.00	46.00	13.67	13.10	N	PASS
5	2.7735	31.93	18.19	10.32	42.25	28.51	56.00	46.00	13.75	17.49	N	PASS
6	9.6315	31.15	21.76	10.57	41.72	32.33	60.00	50.00	18.28	17.67	N	PASS

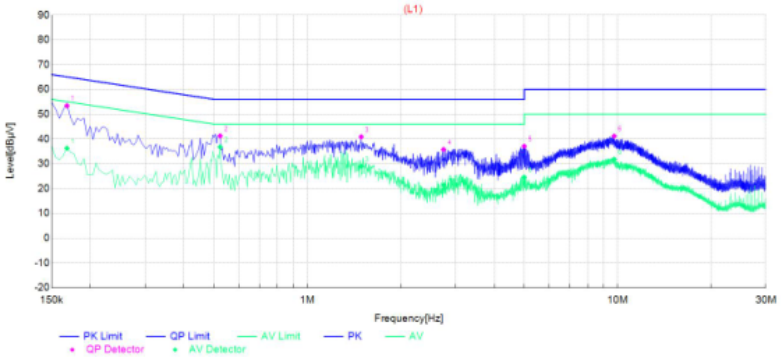
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: SOY-2400150-332-A

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

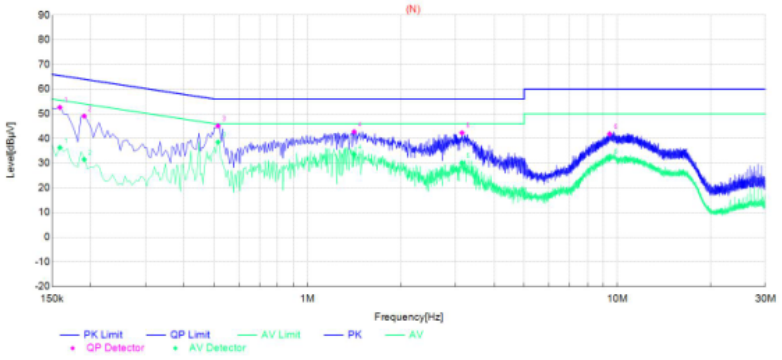
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.168	43.15	25.97	10.27	53.42	36.24	65.06	55.06	11.64	18.82	L1	PASS
2	0.5235	31.00	26.51	10.24	41.24	36.75	56.00	46.00	14.76	9.25	L1	PASS
3	1.491	30.64	18.78	10.23	40.87	29.01	56.00	46.00	15.13	16.99	L1	PASS
4	2.7465	25.44	11.11	10.32	35.76	21.43	56.00	46.00	20.24	24.57	L1	PASS
5	4.9965	26.73	14.25	10.34	37.07	24.59	56.00	46.00	18.93	21.41	L1	PASS
6	9.7395	30.59	21.28	10.57	41.16	31.85	60.00	50.00	18.84	18.15	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	42.30	25.98	10.31	52.61	36.29	65.52	55.52	12.91	19.23	N	PASS
2	0.1905	38.90	21.31	10.16	49.06	31.47	64.01	54.01	14.95	22.54	N	PASS
3	0.5145	34.86	28.28	10.24	45.10	38.52	56.00	46.00	10.90	7.48	N	PASS
4	1.4145	32.49	23.29	10.23	42.72	33.52	56.00	46.00	13.28	12.48	N	PASS
5	3.1515	31.93	19.78	10.34	42.27	30.12	56.00	46.00	13.73	15.88	N	PASS
6	9.4335	31.26	21.28	10.56	41.82	31.84	60.00	50.00	18.18	18.16	N	PASS

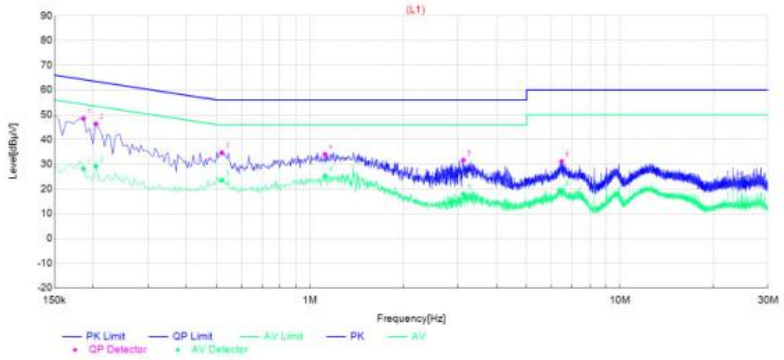
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

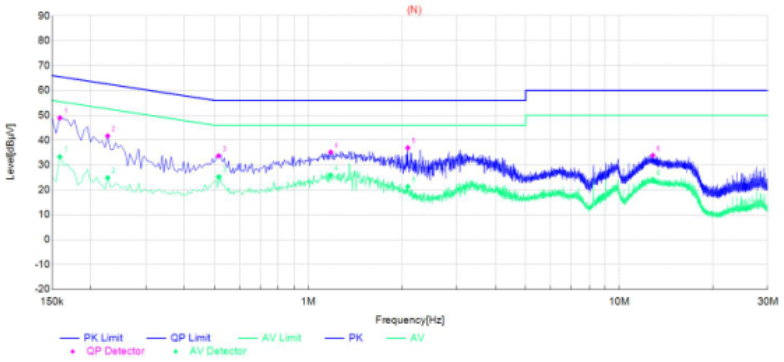
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.186	38.29	17.98	10.18	48.47	28.16	64.21	54.21	15.74	26.05	L1	PASS
2	0.204	36.14	19.10	10.15	46.29	29.25	63.45	53.45	17.16	24.20	L1	PASS
3	0.519	24.41	13.21	10.24	34.65	23.45	56.00	46.00	21.35	22.55	L1	PASS
4	1.1175	23.82	15.07	10.21	34.03	25.28	56.00	46.00	21.97	20.72	L1	PASS
5	3.1245	21.25	7.63	10.34	31.59	17.97	56.00	46.00	24.41	28.03	L1	PASS
6	6.4815	20.62	8.81	10.50	31.12	19.31	60.00	50.00	28.88	30.69	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	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.159	38.65	23.00	10.31	48.96	33.31	65.52	55.52	16.56	22.21	N	PASS
2	0.2265	31.55	14.74	10.14	41.69	24.88	62.58	52.58	20.89	27.70	N	PASS
3	0.5145	23.41	14.99	10.24	33.65	25.23	56.00	46.00	22.35	20.77	N	PASS
4	1.1805	24.96	15.72	10.21	35.17	25.93	56.00	46.00	20.83	20.07	N	PASS
5	2.0895	26.61	11.04	10.28	36.89	21.32	56.00	46.00	19.11	24.68	N	PASS
6	12.8085	22.96	13.12	10.89	33.85	24.01	60.00	50.00	26.15	25.99	N	PASS

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

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

Note: All modes have been tested and the worst mode is recorded in the report, NFC has two optional antennas, with the worst mode recorded in the report (NFC antenna Model:DS2-52).