



Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No.....: GTS20250709013-6-14

FCC ID.....: 2AYD5-I25D01

Compiled by

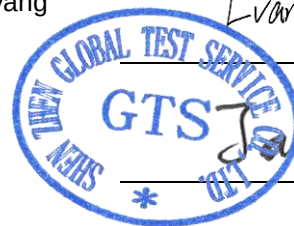
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Date of issue.....: Aug.04, 2025

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

Address: No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, 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: 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

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Test item description

Trade Mark:

Manufacturer: Imin Technology Pte Ltd

Model/Type reference.....: I25D01

Listed Models: N/A

Operation Frequency.....: From 2412MHz to 2462MHz

Hardware Version: N/A

Software Version: N/A

Rating: DC 24V/1.5A by Adapter

Result.....: **PASS**

TEST REPORT

Test Report No. :	GTS20250709013-6-14	Aug.04, 2025
		Date of issue

Equipment under Test : POS Device

Model /Type : I25D01

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
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

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

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 DTS Meas Guidance v05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Jul.17, 2025
	:	
Testing commenced on	:	Jul.17, 2025
	:	
Testing concluded on	:	Aug.02, 2025

2.2. Product Description

Product Name:	POS Device
Trade Mark:	
Model/Type reference:	I25D01
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	GTS20250709013-6-S001-1#(Version A) GTS20250709013-6-S001-2#(Version B) GTS20250709013-6-S001-3#(Version C) GTS20250709013-6-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	5180-5240MHz/ 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, 3.36dBi(Max.) for 2.4G Band and 5.11dBi(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 three optional antennas, antenna 1(Model:DS2-52) , antenna 2 (Model:DS2-51) and antenna 3 (Model:DS2-55).
Remark:The I25D01 model has 3 versions; Version A: Double large display ; Version B: One large display and one small display; Version C: Only one large 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 application provider specific test software to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDS758074 test requirement.

IEEE 802.11b/g/n/ax: Thirteen channels are provided to the EUT.

Antenna	Chain 0		Chain 1		Simultaneously
Bandwidth Mode	20MHz	40MHz	20MHz	40MHz	/
IEEE 802.11b	☒	☐	☐	☐	☐
IEEE 802.11g	☒	☐	☐	☐	☐
IEEE 802.11n	☒	☒	☐	☐	☐
IEEE 802.11ax	☒	☒	☐	☐	☐

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

The EUT has been tested under operating condition.

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

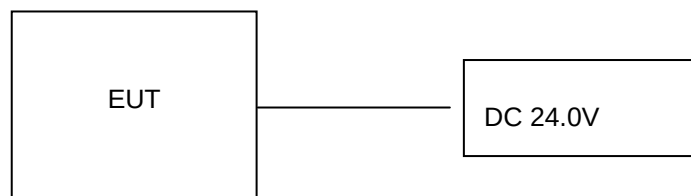
AC main conducted emission pre-test at charge from PC modes, recorded worst case;

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

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 IEEE 802.11g mode (MCH).

AX mode tested all RU, only worst case mode (Full RU) recorded in report.

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-I25D01** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8. EUT Exercise Software

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

2.9. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN HONOR ELECTRONIC CO.,LTD.	Adapter	ADS-65HI-19A-124036F	--	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
SONY	Earphone	MDR-XB550AP	--	SDOC
--	Electronic Scale	--	--	SDOC
--	Cashbox	--	--	SDOC

Note: The PC, Electronic Scale, Cashbox, Keyboard, Mouse, Earphone and USB flash disk 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	4	N/A
RJ11 Port	1	N/A
RJ12 Port	1	N/A
RJ45 Port	1	Non-Shielded, 10m
HDMI Port	1	N/A
Type-C Port	1	N/A
Earphone Port	1	N/A

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.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, 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. Test Description

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Test Sample	Result	Remark
§15.247(b)	Maximum Conducted Output Power	GTS20250709013-6-S001-4#	Compliant	Note 1
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20250709013-6-S001-1# GTS20250709013-6-S001-2# GTS20250709013-6-S001-3#	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	GTS20250709013-6-S001-1# GTS20250709013-6-S001-2# GTS20250709013-6-S001-3#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20250310021-1-S0001-1#	Compliant	Note 1
§15.247(i)§2.10 91	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

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9kHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5Mbps	3/6/09
	11ax(20MHz)/OFDMA	8.6Mbps	1/6/11
	11ax(40MHz)/OFDMA	17.2Mbps	3/6/09
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9
	11ax(20MHz)/OFDMA	8.6Mbps	1/11
	11ax(40MHz)/OFDMA	17.2Mbps	3/9

3.6. Equipments Used during the Test

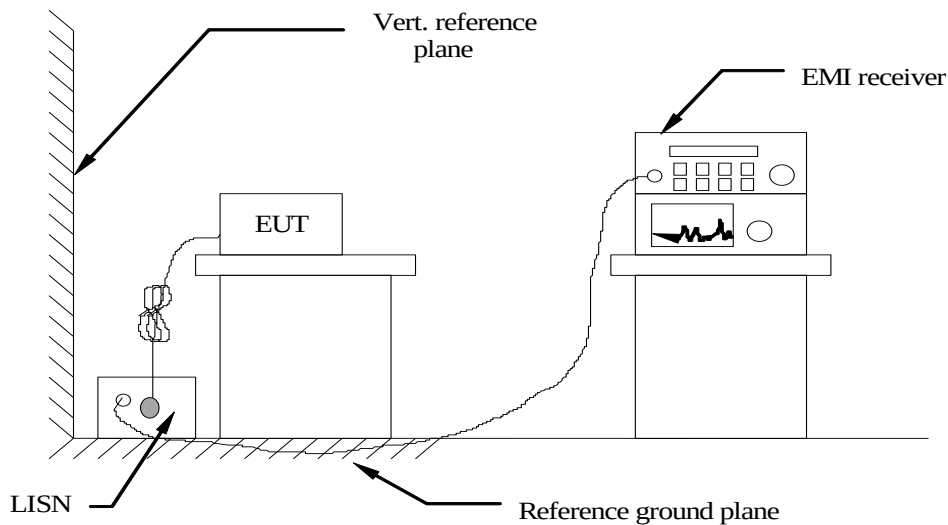
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2025/07/15	2026/07/14
Artificial Mains	CYBERTEK	EM5040A	E1850400205	2025/07/07	2026/07/06
LISN	R&S	ESH2-Z5	893606/008	2025/07/07	2026/07/06
EMI Test Receiver	R&S	ESPI 3	/	2025/07/04	2026/07/03
Test Receiver	R&S	ESCI 7	101102	2025/07/04	2026/07/03
Spectrum Analyzer	Agilent	N9020A	MY48010425	2025/07/04	2026/07/03
Spectrum Analyzer	R&S	FSV40-N	101800	2025/07/04	2026/07/03
Vector Signal generator	Agilent	N5181A	MY49060502	2025/07/15	2026/07/14
Signal generator	Agilent	N5182A	MY50141550	2025/07/04	2026/07/03
Climate Chamber	ESPEC	EL-10KA	A20120523	2025/07/15	2026/07/14
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2024/12/16	2025/12/15
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	/	2025/07/04	2026/07/03
By-log Antenna	SCHWARZBECK	VULB9163	00976	2025/07/15	2026/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2025/07/15	2026/07/14
Amplifier	SKET	LAPA_30M01G-32	SK20240104001	2025/01/21	2026/01/20
Amplifier	EMCI	EMC012645SE	980340	2025/01/21	2026/01/20
Amplifier	Schwarzbeck	BBV9179	9719-025	2025/01/21	2026/01/20
Temperature/Humidity Meter	HUATU	HTC-1	/	2025/07/15	2026/07/14
High-Pass Filter	Stest	1	/	2025/07/04	2026/07/03
High-Pass Filter	Stest	2	/	2025/07/04	2026/07/03
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2025/07/15	2026/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2025/07/15	2026/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2025/07/15	2026/07/14
Power Sensor	Keysight	E9301A	MY41495308	2025/07/04	2026/07/03
Control Unit	Tonscend	JS0806-2	/	2025/07/07	2026/07/06
Wireless Communication Tester	Rohde&Schwarz	CMW500	125408	2024/07/15	2025/07/14
Automated filter bank	Tonscend	JS0806-F	19F8060177	2025/07/04	2026/07/03
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.
- 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:

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

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 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

Temperature	25°C	Humidity	60%
Test Engineer	Evan Ouyang	Configurations	IEEE 802.11g (MCH)

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

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ A]	AVG. Result [dBμ A]	QP Limit [dBμ A]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	35.93	17.24	10.31	46.24	27.55	65.52	55.52	19.28	27.97	L1	PASS
2	0.186	32.24	16.87	10.18	42.42	27.05	64.21	54.21	21.79	27.16	L1	PASS
3	0.393	25.74	17.96	10.16	35.90	28.12	58.00	48.00	22.10	19.88	L1	PASS
4	0.5325	21.34	7.36	10.23	31.57	17.59	56.00	46.00	24.43	28.41	L1	PASS
5	3.6375	20.75	8.86	10.36	31.11	19.22	56.00	46.00	24.89	26.78	L1	PASS
6	3.939	20.96	10.51	10.37	31.33	20.88	56.00	46.00	24.67	25.12	L1	PASS

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ A]	AVG. Result [dBμ A]	QP Limit [dBμ A]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	35.92	17.72	10.35	46.27	28.07	66.00	56.00	19.73	27.93	N	PASS
2	0.1815	31.07	14.74	10.20	41.27	24.94	64.42	54.42	23.15	29.48	N	PASS
3	0.3885	25.58	15.60	10.15	35.73	25.75	58.10	48.10	22.37	22.35	N	PASS
4	0.78	23.83	8.96	10.25	34.08	19.21	56.00	46.00	21.92	26.79	N	PASS
5	3.4215	21.56	10.83	10.35	31.91	21.18	56.00	46.00	24.09	24.82	N	PASS
6	4.0245	22.08	10.54	10.37	32.45	20.91	56.00	46.00	23.55	25.09	N	PASS

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	32.97	15.00	10.31	43.28	25.31	65.52	55.52	22.24	30.21	L1	PASS
2	0.195	30.30	12.34	10.16	40.46	22.50	63.82	53.82	23.36	31.32	L1	PASS
3	0.3885	25.62	17.09	10.15	35.77	27.24	58.10	48.10	22.33	20.86	L1	PASS
4	0.6495	20.87	6.83	10.21	31.08	17.04	56.00	46.00	24.92	28.96	L1	PASS
5	3.804	21.98	7.28	10.36	32.34	17.64	56.00	46.00	23.66	28.36	L1	PASS
6	3.9525	22.72	9.97	10.37	33.09	20.34	56.00	46.00	22.91	25.66	L1	PASS

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	34.09	18.44	10.31	44.40	28.75	65.52	55.52	21.12	26.77	N	PASS
2	0.186	31.13	16.71	10.18	41.31	26.89	64.21	54.21	22.90	27.32	N	PASS
3	0.213	28.15	16.49	10.14	38.29	26.63	63.09	53.09	24.80	26.46	N	PASS
4	0.3975	25.17	17.18	10.16	35.33	27.34	57.91	47.91	22.58	20.57	N	PASS
5	3.6285	22.85	10.40	10.36	33.21	20.76	56.00	46.00	22.79	25.24	N	PASS
6	3.993	22.64	10.65	10.37	33.01	21.02	56.00	46.00	22.99	24.98	N	PASS

Note: 1. Result (dBμ A) = Reading (dBμ A) + 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
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Test Graph

Final Data List												
NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	32.48	17.37	10.31	42.79	27.68	65.52	55.52	22.73	27.84	L1	PASS
2	0.1905	29.46	13.88	10.16	39.62	24.04	64.01	54.01	24.39	29.97	L1	PASS
3	0.384	25.07	16.65	10.15	35.22	26.80	58.19	48.19	22.97	21.39	L1	PASS
4	0.4965	20.70	8.23	10.25	30.95	18.48	56.06	46.06	25.11	27.58	L1	PASS
5	3.552	22.32	9.74	10.36	32.68	20.10	56.00	46.00	23.32	25.90	L1	PASS
6	3.9525	22.86	9.63	10.37	33.23	20.00	56.00	46.00	22.77	26.00	L1	PASS

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph

Final Data List												
NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	34.33	15.26	10.35	44.68	25.61	66.00	56.00	21.32	30.39	N	PASS
2	0.195	31.22	15.10	10.16	41.38	25.26	63.82	53.82	22.44	28.56	N	PASS
3	0.3975	26.14	15.36	10.16	36.30	25.52	57.91	47.91	21.61	22.39	N	PASS
4	0.7665	20.22	6.97	10.24	30.46	17.21	56.00	46.00	25.54	28.79	N	PASS
5	3.5295	22.63	10.26	10.36	32.99	20.62	56.00	46.00	23.01	25.38	N	PASS
6	3.9165	22.41	10.26	10.37	32.78	20.63	56.00	46.00	23.22	25.37	N	PASS

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	36.82	14.80	10.31	47.13	25.11	65.52	55.52	18.39	30.41	L1	PASS
2	0.1815	32.79	13.85	10.20	42.99	24.05	64.42	54.42	21.43	30.37	L1	PASS
3	0.3885	26.27	17.54	10.15	36.42	27.69	58.10	48.10	21.68	20.41	L1	PASS
4	0.6765	23.54	9.06	10.22	33.76	19.28	56.00	46.00	22.24	26.72	L1	PASS
5	3.8085	22.64	9.10	10.36	33.00	19.46	56.00	46.00	23.00	26.54	L1	PASS
6	3.939	20.96	11.03	10.37	31.33	21.40	56.00	46.00	24.67	24.60	L1	PASS

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	36.79	18.35	10.35	47.14	28.70	66.00	56.00	18.86	27.30	N	PASS
2	0.1905	30.47	12.99	10.16	40.63	23.15	64.01	54.01	23.38	30.86	N	PASS
3	0.3885	27.76	16.27	10.15	37.91	26.42	58.10	48.10	20.19	21.68	N	PASS
4	0.789	21.67	6.56	10.25	31.92	16.81	56.00	46.00	24.08	29.19	N	PASS
5	3.687	23.32	8.09	10.36	33.68	18.45	56.00	46.00	22.32	27.55	N	PASS
6	4.0245	22.67	10.35	10.37	33.04	20.72	56.00	46.00	22.96	25.28	N	PASS

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

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

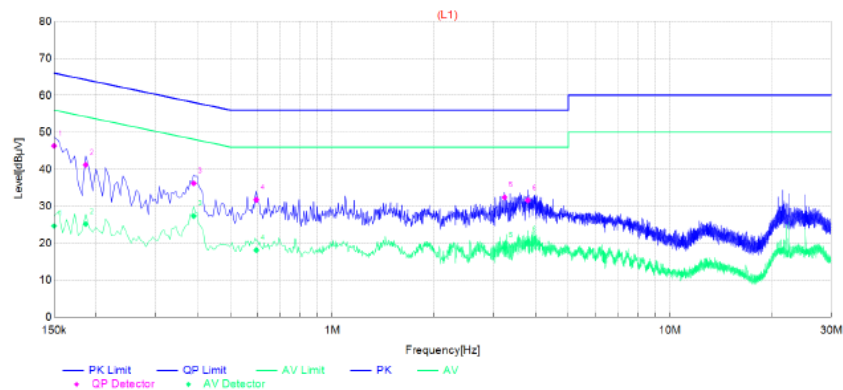
Power supply:

AC 120V/60Hz

Polarization

L

Test Graph



Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ A]	AVG. Result [dBμ A]	QP Limit [dBμ A]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	35.98	14.31	10.35	46.33	24.66	66.00	56.00	19.67	31.34	L1	PASS
2	0.186	31.01	14.97	10.18	41.19	25.15	64.21	54.21	23.02	29.06	L1	PASS
3	0.3885	26.03	17.19	10.15	36.18	27.34	58.10	48.10	21.92	20.76	L1	PASS
4	0.5955	21.53	7.90	10.19	31.72	18.09	56.00	46.00	24.28	27.91	L1	PASS
5	3.237	22.03	8.38	10.35	32.38	18.73	56.00	46.00	23.62	27.27	L1	PASS
6	3.795	21.22	10.05	10.36	31.58	20.41	56.00	46.00	24.42	25.59	L1	PASS

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

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

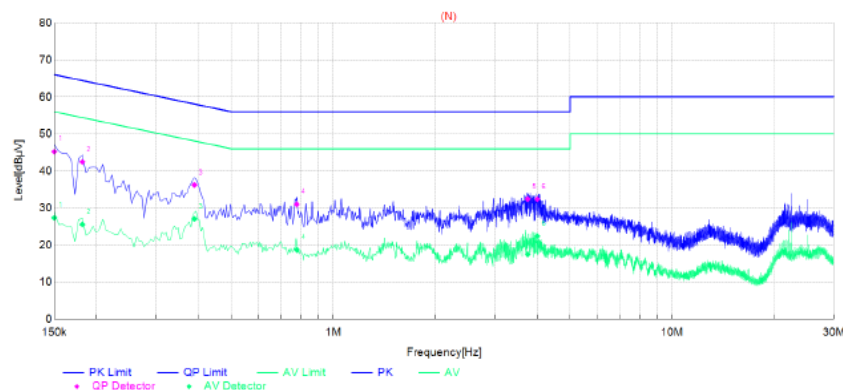
Power supply:

AC 120V/60Hz

Polarization

N

Test Graph



Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ A]	AVG. Result [dBμ A]	QP Limit [dBμ A]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	34.89	17.01	10.35	45.24	27.36	66.00	56.00	20.76	28.64	N	PASS
2	0.1815	32.26	15.35	10.20	42.46	25.55	64.42	54.42	21.96	28.87	N	PASS
3	0.3885	26.08	16.89	10.15	36.23	27.04	58.10	48.10	21.87	21.06	N	PASS
4	0.78	20.74	8.47	10.25	30.99	18.72	56.00	46.00	25.01	27.28	N	PASS
5	3.7455	22.04	7.13	10.36	32.40	17.49	56.00	46.00	23.60	28.51	N	PASS
6	3.9975	21.99	12.02	10.37	32.36	22.39	56.00	46.00	23.64	23.61	N	PASS

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

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

Adapter: CYZS36-240150

Power supply:	AC 120V/60Hz	Polarization	L
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.159	36.07	18.49	10.31	46.38	28.80	65.52	55.52	19.14	26.72	L1	PASS
2	0.1815	31.67	13.99	10.20	41.87	24.19	64.42	54.42	22.55	30.23	L1	PASS
3	0.393	28.37	17.16	10.16	38.53	27.32	58.00	48.00	19.47	20.68	L1	PASS
4	3.0255	20.18	5.90	10.34	30.52	16.24	56.00	46.00	25.48	29.76	L1	PASS
5	3.858	21.69	7.73	10.37	32.06	18.10	56.00	46.00	23.94	27.90	L1	PASS
6	3.939	20.68	11.52	10.37	31.05	21.89	56.00	46.00	24.95	24.11	L1	PASS

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

Power supply:	AC 120V/60Hz	Polarization	N
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Test Graph

Final Data List

NO.	Frequency [MHz]	QP Reading [dBμ A]	AVG. Reading [dBμ A]	Factor [dB]	QP Result [dBμ]	AVG. Result [dBμ A]	QP Limit [dBμ]	AVG. Limit [dBμ A]	QP Margin [dB]	AVG. Margin [dB]	Line	Remark
1	0.15	36.21	13.96	10.35	46.56	24.31	66.00	56.00	19.44	31.69	N	PASS
2	0.1815	31.31	12.30	10.20	41.51	22.50	64.42	54.42	22.91	31.92	N	PASS
3	0.393	24.99	16.78	10.16	35.15	26.94	58.00	48.00	22.85	21.06	N	PASS
4	0.573	20.51	8.35	10.20	30.71	18.55	56.00	46.00	25.29	27.45	N	PASS
5	3.7905	21.07	9.71	10.36	31.43	20.07	56.00	46.00	24.57	25.93	N	PASS
6	3.939	23.38	8.56	10.37	33.75	18.93	56.00	46.00	22.25	27.07	N	PASS

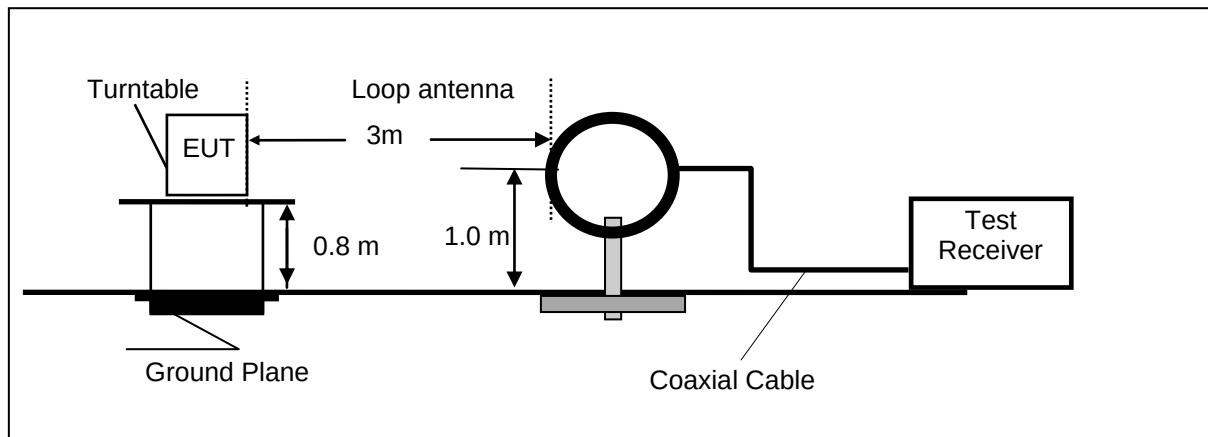
Note: 1. Result (dBμ A) = Reading (dBμ A) + Factor (dB).
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

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

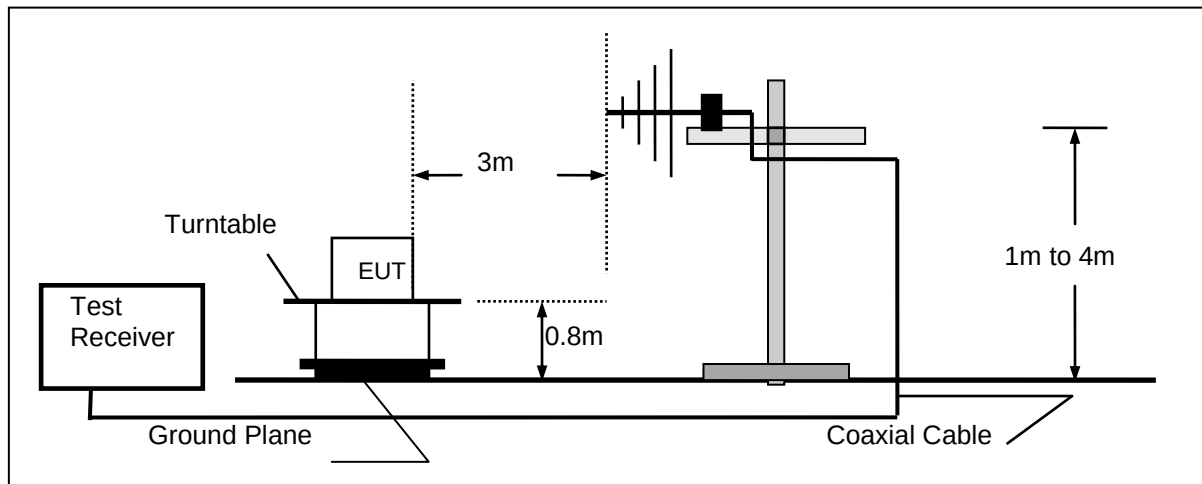
4.2. Radiated Emission

TEST CONFIGURATION

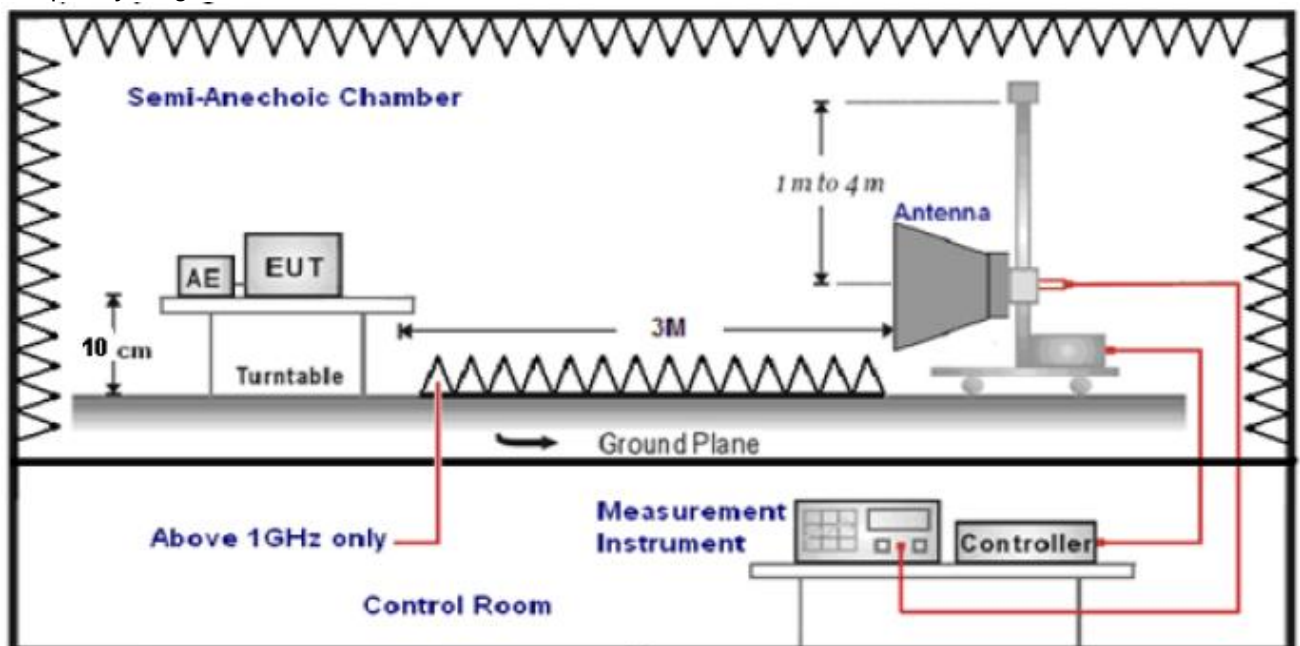
Frequency range 9 KHz – 30MHz



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 30MHz –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. Radiated emission test frequency band from 30MHz 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 802.11b/802.11g/802.11n HT20 mode from 30 MHz to 25GHz in AC120V and the worst case was recorded.

Temperature	25°C	Humidity	60%
Test Engineer	Evan Ouyang	Configurations	IEEE 802.11g (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.

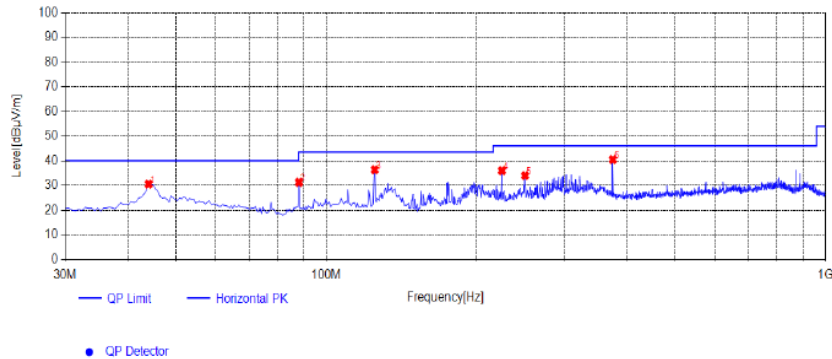
For 30MHz-1GHz

Version A:

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

Horizontal

Test Graph



Suspected List

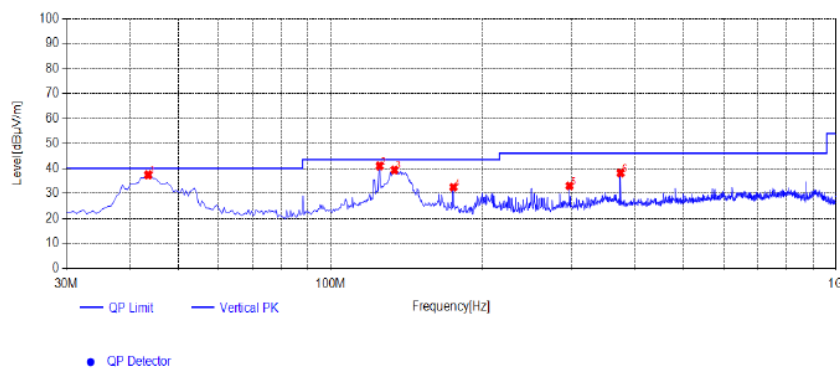
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	33.91	-3.41	30.50	40.00	9.50	100	300	PK	Horizontal	PASS
2	88.2	38.17	-6.96	31.21	43.50	12.29	100	84	PK	Horizontal	PASS
3	125.06	43.78	-7.36	36.42	43.50	7.08	100	84	PK	Horizontal	PASS
4	224.97	40.44	-4.40	36.04	46.00	9.96	100	297	PK	Horizontal	PASS
5	250.19	37.33	-3.33	34.00	46.00	12.00	100	351	PK	Horizontal	PASS
6	374.835	41.21	-0.72	40.49	46.00	5.51	100	56	PK	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/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 [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	43.58	40.94	-3.49	37.45	40.00	2.55	100	313	PK	Vertical	PASS
2	125.06	48.35	-7.36	40.99	43.50	2.51	100	283	PK	Vertical	PASS
3	133.79	47.50	-8.11	39.39	43.50	4.11	100	124	PK	Vertical	PASS
4	175.015	38.90	-6.43	32.47	43.50	11.03	100	279	PK	Vertical	PASS
5	297.235	35.46	-2.45	33.01	46.00	12.99	100	52	PK	Vertical	PASS
6	374.835	38.91	-0.72	38.19	46.00	7.81	100	5	PK	Vertical	PASS

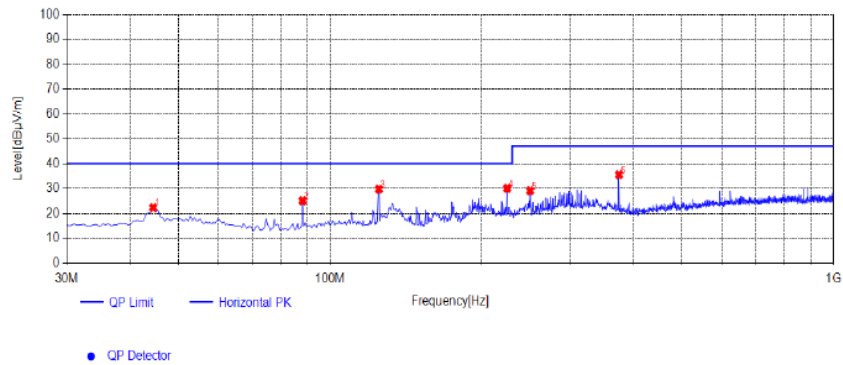
Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

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

Adapter: CYZS36-240150

Horizontal

Test Graph



Suspected List

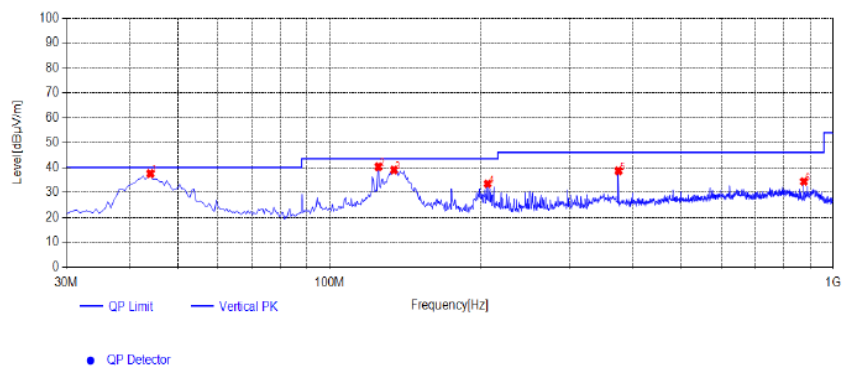
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.55	33.77	-11.41	22.36	40.00	17.64	100	211	PK	Horizontal	PASS
2	88.2	38.57	-13.50	25.07	40.00	14.93	100	50	PK	Horizontal	PASS
3	125.06	42.95	-13.24	29.71	40.00	10.29	100	90	PK	Horizontal	PASS
4	224.97	39.47	-9.43	30.04	40.00	9.96	100	304	PK	Horizontal	PASS
5	249.705	37.81	-8.72	29.09	47.00	17.91	100	2	PK	Horizontal	PASS
6	374.835	41.33	-5.71	35.62	47.00	11.38	100	53	PK	Horizontal	PASS

Note: 1. Result (dBµV/m) = Reading(dBµV/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 [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	41.02	-3.41	37.61	40.00	2.39	100	265	PK	Vertical	PASS
2	125.06	47.66	-7.36	40.30	43.50	3.20	100	282	PK	Vertical	PASS
3	134.275	47.14	-8.12	39.02	43.50	4.48	100	138	PK	Vertical	PASS
4	206.055	37.57	-4.11	33.46	43.50	10.04	100	9	PK	Vertical	PASS
5	374.835	39.41	-0.72	38.69	46.00	7.31	100	2	PK	Vertical	PASS
6	875.355	28.09	6.28	34.37	46.00	11.63	100	265	PK	Vertical	PASS

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

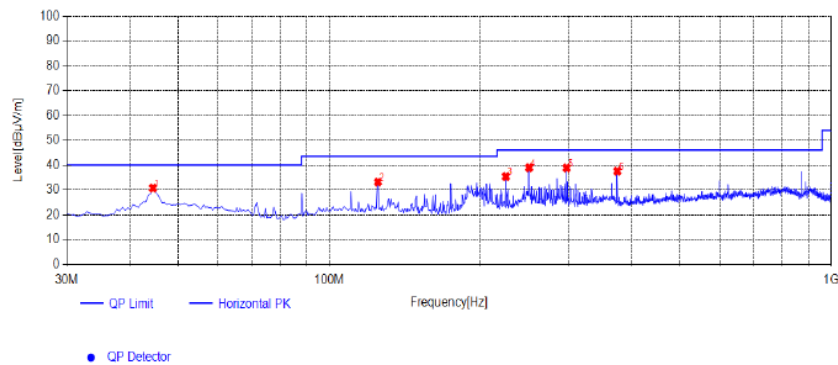
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version B:

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

Horizontal

Test Graph



Suspected List

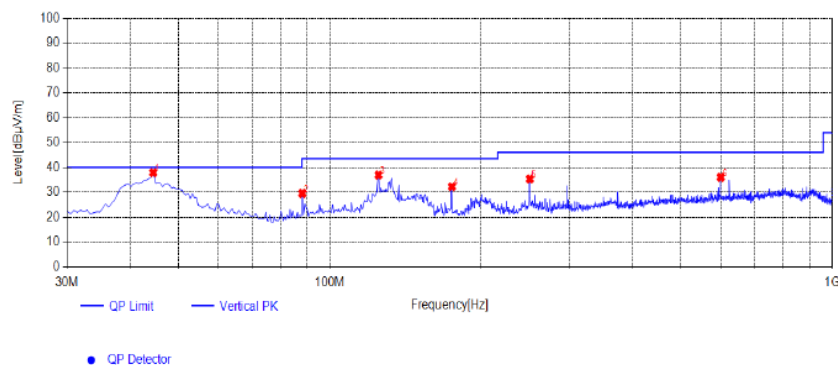
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.55	34.06	-3.36	30.70	40.00	9.30	100	222	PK	Horizontal	PASS
2	125.06	40.52	-7.36	33.16	43.50	10.34	100	101	PK	Horizontal	PASS
3	224.97	39.86	-4.40	35.46	46.00	10.54	100	303	PK	Horizontal	PASS
4	250.19	42.30	-3.33	38.97	46.00	7.03	100	330	PK	Horizontal	PASS
5	297.235	41.33	-2.45	38.88	46.00	7.12	100	16	PK	Horizontal	PASS
6	374.835	38.31	-0.72	37.59	46.00	8.41	100	57	PK	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/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 [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.55	41.30	-3.36	37.94	40.00	2.06	100	194	PK	Vertical	PASS
2	88.2	36.48	-6.96	29.52	43.50	13.98	100	312	PK	Vertical	PASS
3	125.06	44.35	-7.36	36.99	43.50	6.51	100	80	PK	Vertical	PASS
4	175.015	38.64	-6.43	32.21	43.50	11.29	100	252	PK	Vertical	PASS
5	250.19	38.75	-3.33	35.42	46.00	10.58	100	36	PK	Vertical	PASS
6	599.875	31.64	4.46	36.10	46.00	9.90	100	3	PK	Vertical	PASS

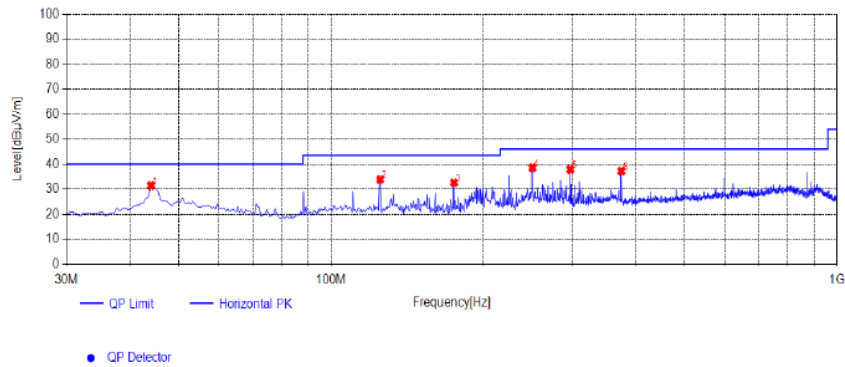
Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

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

Adapter: CYZS36-240150

Horizontal

Test Graph



Suspected List

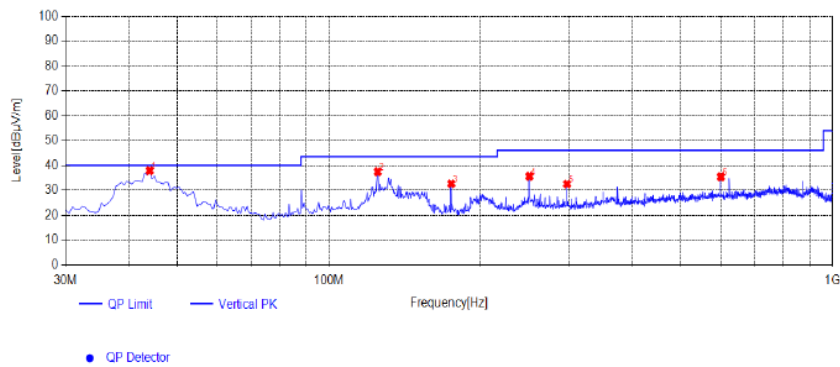
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	34.81	-3.41	31.40	40.00	8.60	100	234	PK	Horizontal	PASS
2	125.06	41.24	-7.36	33.88	43.50	9.62	100	102	PK	Horizontal	PASS
3	175.015	39.05	-6.43	32.62	43.50	10.88	100	275	PK	Horizontal	PASS
4	250.19	41.94	-3.33	38.61	46.00	7.39	100	319	PK	Horizontal	PASS
5	297.235	40.37	-2.45	37.92	46.00	8.08	100	8	PK	Horizontal	PASS
6	374.835	38.00	-0.72	37.28	46.00	8.72	100	48	PK	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/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 [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	41.35	-3.41	37.94	40.00	2.06	100	94	PK	Vertical	PASS
2	125.06	44.85	-7.36	37.49	43.50	6.01	100	101	PK	Vertical	PASS
3	175.015	39.05	-6.43	32.62	43.50	10.88	100	259	PK	Vertical	PASS
4	250.19	39.02	-3.33	35.69	46.00	10.31	100	36	PK	Vertical	PASS
5	297.235	34.95	-2.45	32.50	46.00	13.50	100	358	PK	Vertical	PASS
6	600.36	31.04	4.45	35.49	46.00	10.51	100	169	PK	Vertical	PASS

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

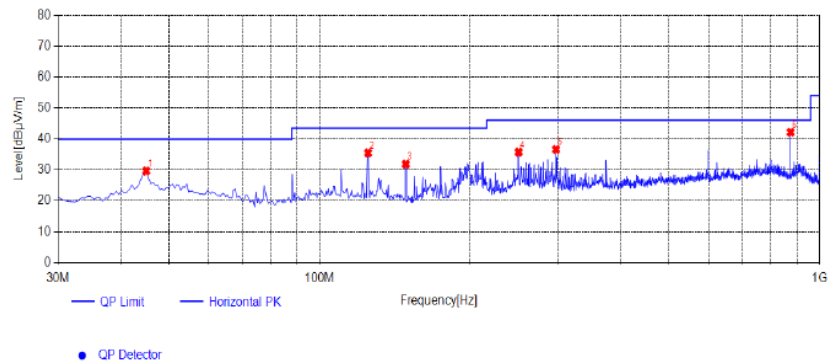
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version C:

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

Horizontal

Test Graph



Suspected List

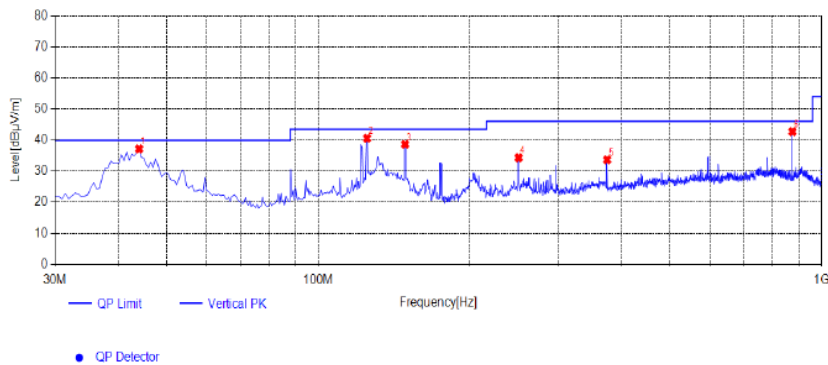
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	45.035	32.99	-3.32	29.67	40.00	10.33	100	217	PK	Horizontal	PASS
2	125.06	42.80	-7.36	35.44	43.50	8.06	100	98	PK	Horizontal	PASS
3	148.825	40.30	-8.44	31.86	43.50	11.64	100	281	PK	Horizontal	PASS
4	250.19	39.03	-3.33	35.70	46.00	10.30	100	244	PK	Horizontal	PASS
5	297.235	39.01	-2.45	36.56	46.00	9.44	100	37	PK	Horizontal	PASS
6	875.355	35.91	6.28	42.19	46.00	3.81	100	51	PK	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/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 [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	40.54	-3.41	37.13	40.00	2.87	100	150	PK	Vertical	PASS
2	125.06	47.97	-7.36	40.61	43.50	2.89	100	95	PK	Vertical	PASS
3	148.825	47.06	-8.44	38.62	43.50	4.88	100	191	PK	Vertical	PASS
4	250.19	37.62	-3.33	34.29	46.00	11.71	100	187	PK	Vertical	PASS
5	374.835	34.36	-0.72	33.64	46.00	12.36	100	272	PK	Vertical	PASS
6	875.355	36.45	6.28	42.73	46.00	3.27	100	24	PK	Vertical	PASS

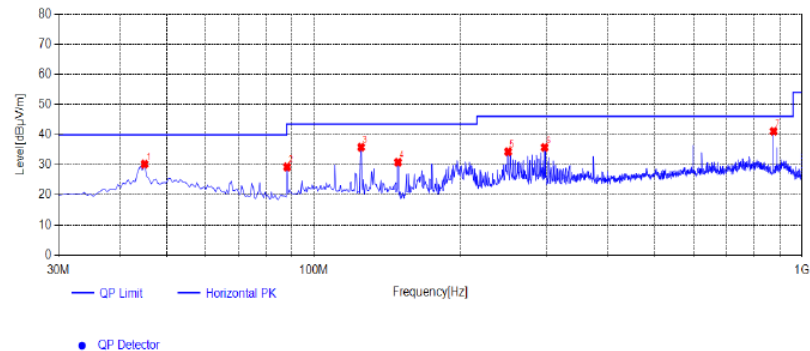
Note: 1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

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

Adapter: CYZS36-240150

Horizontal

Test Graph



Suspected List

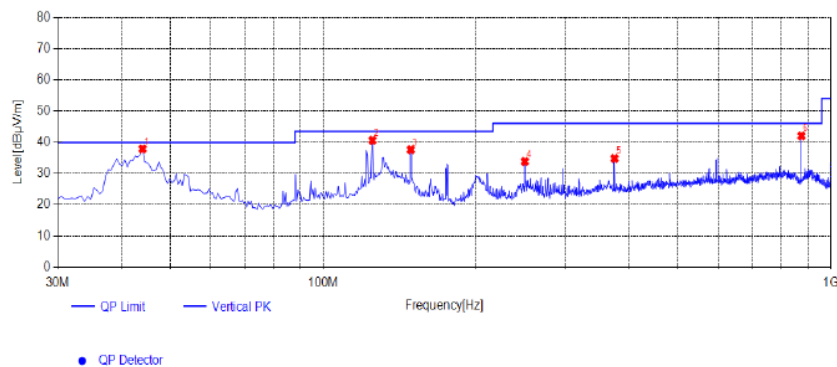
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	45.035	33.56	-3.32	30.24	40.00	9.76	100	215	PK	Horizontal	PASS
2	88.2	36.26	-6.96	29.30	43.50	14.20	100	51	PK	Horizontal	PASS
3	125.06	43.14	-7.36	35.78	43.50	7.72	100	85	PK	Horizontal	PASS
4	148.825	39.28	-8.44	30.84	43.50	12.66	100	296	PK	Horizontal	PASS
5	250.19	37.62	-3.33	34.29	46.00	11.71	100	228	PK	Horizontal	PASS
6	297.235	38.16	-2.45	35.71	46.00	10.29	100	27	PK	Horizontal	PASS
7	875.355	34.85	6.28	41.13	46.00	4.87	100	48	PK	Horizontal	PASS

Note: 1. Result (dBμV/m) = Reading(dBμV/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 [dBμV/m]	Factor [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	44.065	41.25	-3.41	37.84	40.00	2.16	100	146	PK	Vertical	PASS
2	125.06	48.01	-7.36	40.65	43.50	2.85	100	84	PK	Vertical	PASS
3	148.825	46.00	-8.44	37.56	43.50	5.94	100	163	PK	Vertical	PASS
4	249.705	37.18	-3.35	33.83	46.00	12.17	100	183	PK	Vertical	PASS
5	374.835	35.50	-0.72	34.78	46.00	11.22	100	298	PK	Vertical	PASS
6	875.355	35.79	6.28	42.07	46.00	3.93	100	3	PK	Vertical	PASS

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

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

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

For 1GHz to 25GHz

IEEE 802.11b_ (Worst Case)

Channel 1 / 2412 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.
4824.00	50.61	32.44	30.25	7.95	60.75	74.00	-13.25	Peak	Horizontal
4824.00	36.16	32.44	30.25	7.95	46.30	54.00	-7.70	Average	Horizontal
4824.00	53.37	32.44	30.25	7.95	63.51	74.00	-10.49	Peak	Vertical
4824.00	35.93	32.44	30.25	7.95	46.07	54.00	-7.93	Average	Vertical

Channel 06 / 2437 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.
4874.00	49.55	32.52	30.31	8.12	59.88	74.00	-14.12	Peak	Horizontal
4874.00	36.47	32.52	30.31	8.12	46.80	54.00	-7.20	Average	Horizontal
4874.00	51.85	32.52	30.31	8.12	62.18	74.00	-11.82	Peak	Vertical
4874.00	36.33	32.52	30.31	8.12	46.66	54.00	-7.34	Average	Vertical

Channel 11 / 2462 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.
4924.00	51.60	32.68	30.27	7.88	61.89	74.00	-12.11	Peak	Horizontal
4924.00	36.61	32.68	30.27	7.88	46.90	54.00	-7.10	Average	Horizontal
4924.00	50.41	32.68	30.27	7.88	60.70	74.00	-13.30	Peak	Vertical
4924.00	30.68	32.68	30.27	7.88	40.97	54.00	-13.03	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version A_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

IEEE 802.11b_ (Worst Case)

Channel 1 / 2412 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.
4824.00	50.45	32.44	30.25	7.95	60.59	74.00	-13.41	Peak	Horizontal
4824.00	36.65	32.44	30.25	7.95	46.79	54.00	-7.21	Average	Horizontal
4824.00	54.45	32.44	30.25	7.95	64.59	74.00	-9.41	Peak	Vertical
4824.00	35.75	32.44	30.25	7.95	45.89	54.00	-8.11	Average	Vertical

Channel 06 / 2437 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.
4874.00	50.00	32.52	30.31	8.12	60.33	74.00	-13.67	Peak	Horizontal
4874.00	36.95	32.52	30.31	8.12	47.28	54.00	-6.72	Average	Horizontal
4874.00	50.99	32.52	30.31	8.12	61.32	74.00	-12.68	Peak	Vertical
4874.00	36.00	32.52	30.31	8.12	46.33	54.00	-7.67	Average	Vertical

Channel 11 / 2462 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.
4924.00	50.43	32.68	30.27	7.88	60.72	74.00	-13.28	Peak	Horizontal
4924.00	36.44	32.68	30.27	7.88	46.73	54.00	-7.27	Average	Horizontal
4924.00	50.26	32.68	30.27	7.88	60.55	74.00	-13.45	Peak	Vertical
4924.00	30.82	32.68	30.27	7.88	41.11	54.00	-12.89	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version B_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

IEEE 802.11b_ (Worst Case)

Channel 1 / 2412 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.
4824.00	49.90	32.44	30.25	7.95	60.04	74.00	-13.96	Peak	Horizontal
4824.00	34.95	32.44	30.25	7.95	45.09	54.00	-8.91	Average	Horizontal
4824.00	53.22	32.44	30.25	7.95	63.36	74.00	-10.64	Peak	Vertical
4824.00	35.12	32.44	30.25	7.95	45.26	54.00	-8.74	Average	Vertical

Channel 06 / 2437 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.
4874.00	49.02	32.52	30.31	8.12	59.35	74.00	-14.65	Peak	Horizontal
4874.00	37.59	32.52	30.31	8.12	47.92	54.00	-6.08	Average	Horizontal
4874.00	51.79	32.52	30.31	8.12	62.12	74.00	-11.88	Peak	Vertical
4874.00	36.32	32.52	30.31	8.12	46.65	54.00	-7.35	Average	Vertical

Channel 11 / 2462 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.
4924.00	51.21	32.68	30.27	7.88	61.50	74.00	-12.50	Peak	Horizontal
4924.00	36.76	32.68	30.27	7.88	47.05	54.00	-6.95	Average	Horizontal
4924.00	50.12	32.68	30.27	7.88	60.41	74.00	-13.59	Peak	Vertical
4924.00	32.40	32.68	30.27	7.88	42.69	54.00	-11.31	Average	Vertical

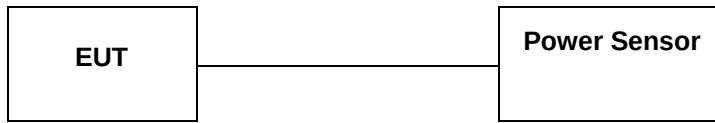
Note: All modes were tested and the worst mode was recorded in the report (version C_Adapter: ADS-65HI-19A-124036F_NFC antenna Model:DS2-52).

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

4.3. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to KDB558074 D01 15.247 Measurement Guidance v05r02 Section 8.3.1 Maximum peak conducted output power, 8.3.1.3 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 DTS bandwidth and shall utilize a fast-responding diode detector.

LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

TEST RESULTS

Pass

Test Mode	Antenna	Frequency[MHz]	Original	New	Limit [dBm]	Verdict
			Peak power [dBm]	Peak power [dBm]		
11B	Ant1	2412	18.28	17.65	≤30.00	PASS
		2437	19.38	18.39	≤30.00	PASS
		2462	18.80	18.12	≤30.00	PASS
11G	Ant1	2412	16.35	15.77	≤30.00	PASS
		2437	16.81	16.01	≤30.00	PASS
		2462	16.81	16.32	≤30.00	PASS
11N20SISO	Ant1	2412	16.07	15.55	≤30.00	PASS
		2437	16.64	15.79	≤30.00	PASS
		2462	16.69	16.11	≤30.00	PASS
11N40SISO	Ant1	2422	16.32	15.87	≤30.00	PASS
		2437	16.54	15.98	≤30.00	PASS
		2452	16.28	15.78	≤30.00	PASS
11AX20SISO	Ant1	2412	17.66	17.18	≤30.00	PASS
		2437	17.16	16.45	≤30.00	PASS
		2462	17.21	16.69	≤30.00	PASS
11AX40SISO	Ant1	2422	17.89	17.28	≤30.00	PASS
		2437	17.15	16.66	≤30.00	PASS
		2452	17.70	17.12	≤30.00	PASS

4.4. 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.

Antenna Information

The antenna is Internal Antenna, through the buckle stretched out, The directional gains of antenna used for transmitting is 3.36dBi.

Reference to the **GTS20250709013-6-12**.

5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: GTS20250709013-6-12.

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: GTS20250709013-6-12.

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