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.....:	**GTS20241101002-1-03**
FCC ID..... :	**2AYD5-I24D03**
Compiled by (position+printed name+signature)..:	File administrators Peter Xiao
Supervised by (position+printed name+signature)..:	Test Engineer Evan Ouyang
Approved by (position+printed name+signature)..:	Manager Jason Hu
Date of issue.....:	Dec.25, 2024
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 .....:	**POS Device**
Trade Mark .....:	iMin
Manufacturer .....:	Imin Technology Pte Ltd
Model/Type reference.....:	I24D03
Listed Models .....:	N/A
Operation Frequency.....:	From 2412MHz to 2462MHz
Hardware Version .....:	N/A
Software Version .....:	N/A
Rating .....:	DC 24V/2.5A by adapter
Result.....:	**PASS**

T E S T R E P O R T

Test Report No. :	**GTS20241101002-1-03**	Dec.25, 2024 Date of issue

Equipment under Test	:	POS Device
Model /Type	:	I24D03
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.

Contents

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	:	Nov.28, 2024
Testing commenced on	:	Nov.28, 2024
Testing concluded on	:	Dec.24, 2024

2.2. Product Description

Product Name:	POS Device
Trade Mark:	iMin
Model/Type reference:	I24D03
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 24V/2.5A by adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20241101002-1-S0001-3# GTS20241101002-1-S0001-4#(Version A) GTS20241101002-1-S0001-5#(Version B) GTS20241101002-1-S0001-6#(Version C) GTS20241101002-1-S0001-7#(Version D) GTS20241101002-1-S0001-8#(Version E) GTS20241101002-1-S0001-9#(Version F)
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 I24D03 model has 6 versions; Version A: Double large display (80 inch printer). Version B: One large display and one small display (80 inch printer), Version C: Only one large display (80 inch printer), Version D: Double large display (58 inch printer), Version E: One large display and one small display (58 inch printer), Version F: Only one large display (58 inch printer),	

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.

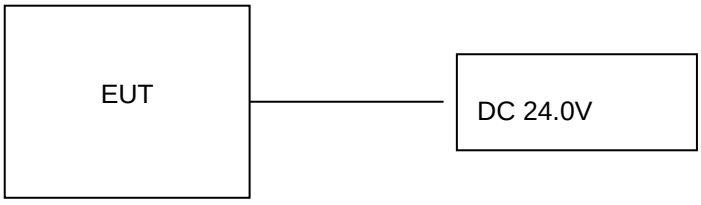
Antenna	Chain 0		Chain 1		Simultaneously
Bandwidth Mode	20MHz	40MHz	20MHz	40MHz	/
IEEE 802.11b	☑	☐	☐	☐	☐
IEEE 802.11g	☑	☐	☐	☐	☐
IEEE 802.11n	☑	☑	☐	☐	☐
IEEE 802.11ax	☑	☑	☐	☐	☐

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).

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-I24D03** 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-124060F	--	SDOC
Jiangsu Chenyang Electron Co.,Ltd.	Adapter	CYSE65-240250	--	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.

2.10. External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	Non-Shielded, 1.0m
USB Port	5	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 CN1234.
FCC Registered Test Site Number is165725.

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				
ISED Rules	Description of Test	Test Sample	Result	Remark
/	On Time and Duty Cycle	GTS20241101002-1-S0001-3#	/	/
§15.247(b)	Maximum Conducted Output Power	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§15.247(e)	Power Spectral Density	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§15.247(a)(2)	6dB Bandwidth	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§2.1047	99% Occupied Bandwidth	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§15.209, §15.247(d)	Conducted Spurious Emissions and Band Edges Test	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§15.209, §15.247(d)	Radiated Spurious Emissions	GTS20241101002-1-S0001-3# GTS20241101002-1-S0001-4# GTS20241101002-1-S0001-5# GTS20241101002-1-S0001-6# GTS20241101002-1-S0001-7# GTS20241101002-1-S0001-8# GTS20241101002-1-S0001-9#	Compliant	Note 1
§15.205	Emissions at Restricted Band	GTS20241101002-1-S0001-3#	Compliant	Appendix C
§15.207(a)	AC Conducted Emissions	GTS20241101002-1-S0001-4# GTS20241101002-1-S0001-5# GTS20241101002-1-S0001-6# GTS20241101002-1-S0001-7# GTS20241101002-1-S0001-8# GTS20241101002-1-S0001-9#	Compliant	Note 1
§15.203 §15.247(c)	Antenna Requirements	GTS20241101002-1-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

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~10th 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

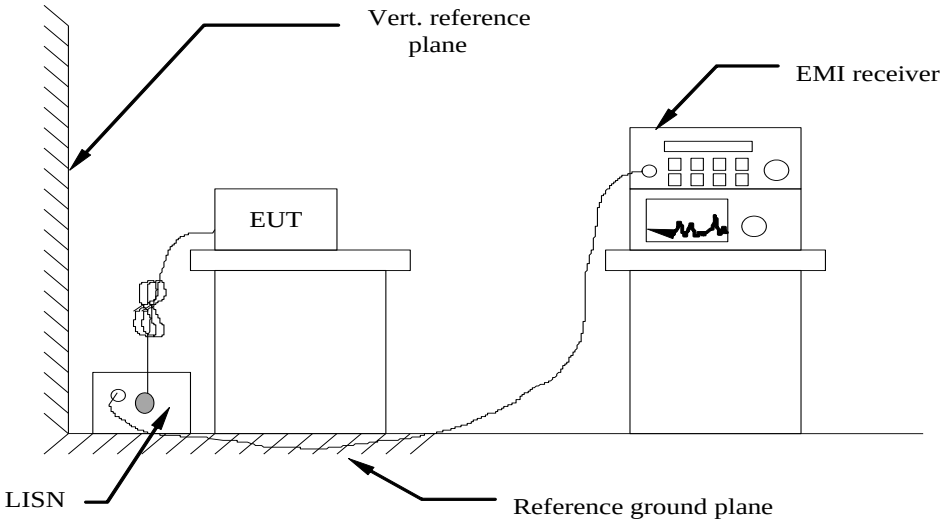
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2024/07/15	2025/07/14
LISN	R&S	ESH2-Z5	893606/008	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESPI3	101841-cd	2024/07/15	2025/07/14
EMI Test Receiver	R&S	ESCI7	101102	2024/07/15	2025/07/14
Spectrum Analyzer	Agilent	N9020A	MY48010425	2024/07/15	2025/07/14
Spectrum Analyzer	R&S	FSV40-N	101800	2024/07/15	2025/07/14
Vector Signal generator	Agilent	N5181A	MY49060502	2024/07/15	2025/07/14
Signal generator	Agilent	N5182A	3610AO1069	2024/07/15	2025/07/14
Climate Chamber	ESPEC	EL-10KA	A20120523	2024/07/15	2025/07/14
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2024/07/15	2025/07/14
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2024/07/15	2025/07/14
Bilog Antenna	Schwarzbeck	VULB9163	000976	2024/07/15	2025/07/14
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024/07/15	2025/07/14
Amplifier	Schwarzbeck	BBV 9743	#202	2024/01/27	2025/01/26
Amplifier	Taiwan Chengyi	EMC051845B	980355	2024/01/27	2025/01/26
Amplifier	Schwarzbeck	BBV9179	9719-025	2024/01/27	2025/01/26
Temperature/Humidity Meter	Gangxing	CTH-608	02	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
High-Pass Filter	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
RF Cable(below 1GHz)	HUBER+SUHNER	RG214	RE01	2024/07/15	2025/07/14
RF Cable(above 1GHz)	HUBER+SUHNER	RG214	RE02	2024/07/15	2025/07/14
Data acquisition card	Agilent	U2531A	TW53323507	2024/07/15	2025/07/14
Power Sensor	Agilent	U2021XA	MY5365004	2024/07/15	2025/07/14
Test Control Unit	Tonscend	JS0806-1	178060067	2024/07/15	2025/07/14
Automated filter bank	Tonscend	JS0806-F	19F8060177	2024/07/15	2025/07/14
Wireless Commnunication Tester	Rohde&Schwarz	CMW500	125408	2024/07/15	2025/07/14
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 (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

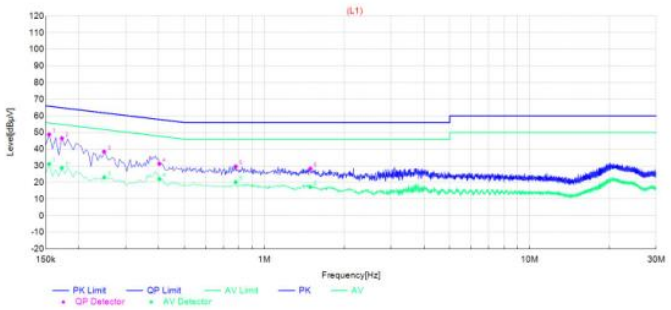
Remark: We measured Conducted Emission at 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

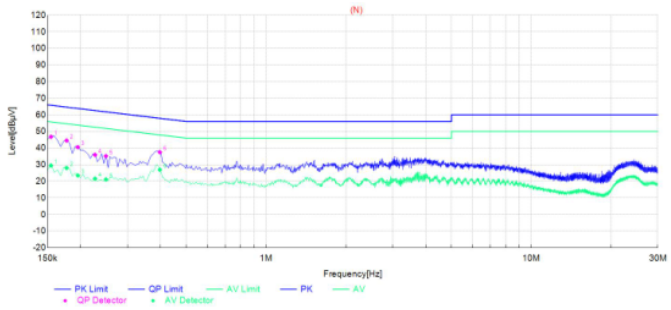
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	38.49	20.80	10.33	48.82	31.13	65.75	55.75	16.93	24.62	L1	PASS
2	0.1725	36.29	18.43	10.24	46.53	28.67	64.84	54.84	18.31	26.17	L1	PASS
3	0.249	28.37	12.93	10.12	38.49	23.05	61.79	51.79	23.30	28.74	L1	PASS
4	0.402	21.01	11.91	10.17	31.18	22.08	57.81	47.81	26.63	25.73	L1	PASS
5	0.78	19.31	9.97	10.25	29.56	20.22	56.00	46.00	26.44	25.78	L1	PASS
6	1.491	18.07	7.01	10.23	28.30	17.24	56.00	46.00	27.70	28.76	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	36.42	19.15	10.33	46.75	29.48	65.75	55.75	19.00	26.27	N	PASS
2	0.177	34.29	17.78	10.22	44.51	28.00	64.63	54.63	20.12	26.63	N	PASS
3	0.195	30.38	13.35	10.16	40.54	23.51	63.82	53.82	23.28	30.31	N	PASS
4	0.2265	25.77	11.46	10.14	35.91	21.60	62.58	52.58	26.67	30.98	N	PASS
5	0.249	25.04	11.01	10.12	35.16	21.13	61.79	51.79	26.63	30.66	N	PASS
6	0.3975	27.36	16.81	10.16	37.52	26.97	57.91	47.91	20.39	20.94	N	PASS

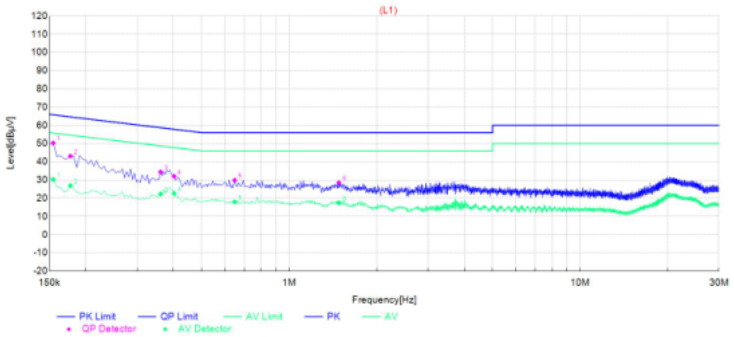
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

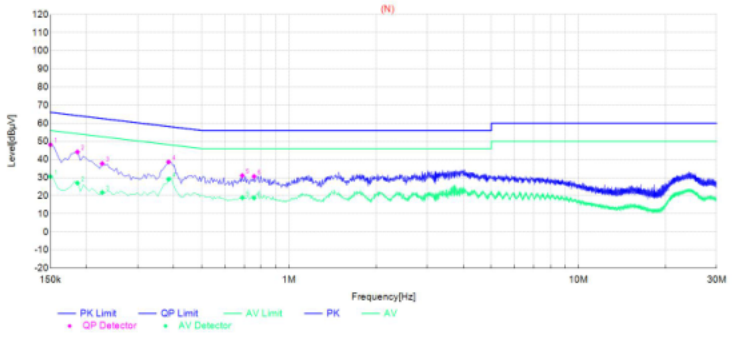
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	39.99	19.92	10.33	50.32	30.25	65.75	55.75	15.43	25.50	L1	PASS
2	0.177	32.87	16.68	10.22	43.09	26.90	64.63	54.63	21.54	27.73	L1	PASS
3	0.3615	24.26	12.16	10.14	34.40	22.30	58.69	48.69	24.29	26.39	L1	PASS
4	0.402	21.86	12.47	10.17	32.03	22.64	57.81	47.81	25.78	25.17	L1	PASS
5	0.6495	19.66	7.78	10.21	29.87	17.99	56.00	46.00	26.13	28.01	L1	PASS
6	1.482	18.28	7.13	10.23	28.51	17.36	56.00	46.00	27.49	28.64	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	37.80	20.21	10.35	48.15	30.56	66.00	56.00	17.85	25.44	N	PASS
2	0.186	33.97	16.80	10.18	44.15	26.98	64.21	54.21	20.06	27.23	N	PASS
3	0.2265	27.59	11.63	10.14	37.73	21.77	62.58	52.58	24.85	30.81	N	PASS
4	0.384	28.47	18.92	10.15	38.62	29.07	58.19	48.19	19.57	19.12	N	PASS
5	0.69	20.88	8.69	10.22	31.10	18.91	56.00	46.00	24.90	27.09	N	PASS
6	0.7575	20.39	8.50	10.24	30.63	18.74	56.00	46.00	25.37	27.26	N	PASS

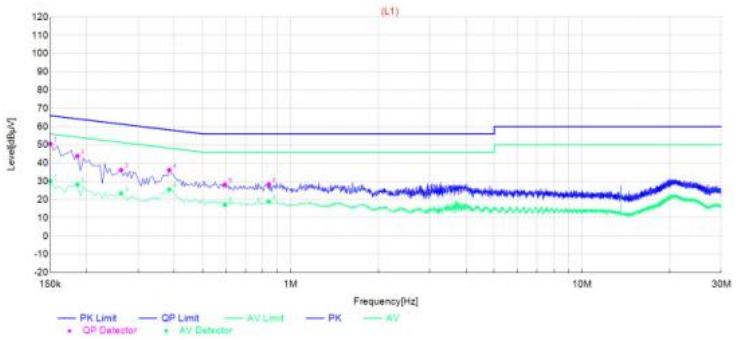
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

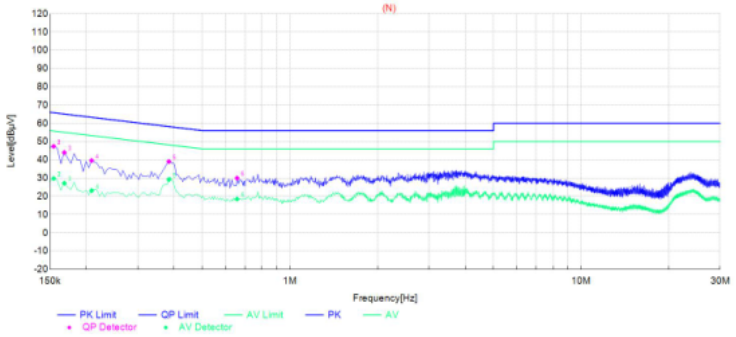
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	40.22	19.72	10.35	50.57	30.07	66.00	56.00	15.43	25.93	L1	PASS
2	0.186	33.76	18.08	10.18	43.94	28.26	64.21	54.21	20.27	25.95	L1	PASS
3	0.2625	26.09	13.31	10.12	36.21	23.43	61.35	51.35	25.14	27.92	L1	PASS
4	0.384	26.02	15.40	10.15	36.17	25.55	58.19	48.19	22.02	22.64	L1	PASS
5	0.5955	17.99	6.94	10.19	28.18	17.13	56.00	46.00	27.82	28.87	L1	PASS
6	0.843	18.20	8.68	10.24	28.44	18.92	56.00	46.00	27.56	27.08	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	37.03	19.43	10.33	47.36	29.76	65.75	55.75	18.39	25.99	N	PASS
2	0.1545	37.03	19.43	10.33	47.36	29.76	65.75	55.75	18.39	25.99	N	PASS
3	0.168	33.73	16.90	10.27	44.00	27.17	65.06	55.06	21.06	27.89	N	PASS
4	0.2085	29.46	12.95	10.15	39.61	23.10	63.26	53.26	23.65	30.16	N	PASS
5	0.384	28.90	19.01	10.15	39.05	29.16	58.19	48.19	19.14	19.03	N	PASS
6	0.6585	19.73	8.30	10.21	29.94	18.51	56.00	46.00	26.06	27.49	N	PASS

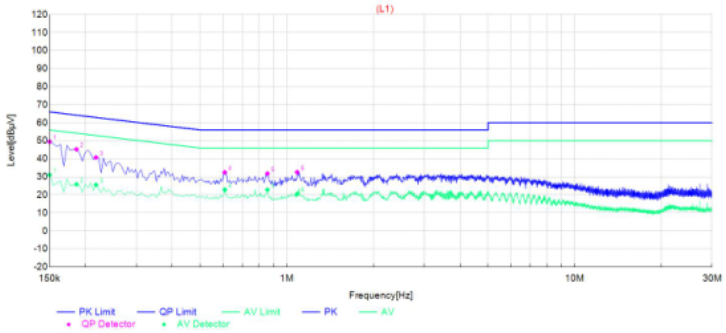
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

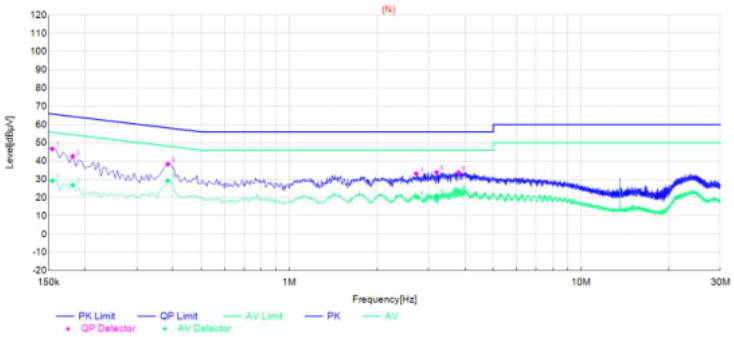
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	39.10	20.71	10.35	49.45	31.06	66.00	56.00	16.55	24.94	L1	PASS
2	0.186	35.06	15.69	10.18	45.24	25.87	64.21	54.21	18.97	28.34	L1	PASS
3	0.2175	30.57	15.41	10.14	40.71	25.55	62.91	52.91	22.20	27.36	L1	PASS
4	0.609	22.30	12.67	10.20	32.50	22.87	56.00	46.00	23.50	23.13	L1	PASS
5	0.8565	21.57	12.60	10.24	31.81	22.84	56.00	46.00	24.19	23.16	L1	PASS
6	1.086	22.39	10.18	10.21	32.60	20.39	56.00	46.00	23.40	25.61	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	36.29	18.87	10.33	46.62	29.20	65.75	55.75	19.13	26.55	N	PASS
2	0.1815	32.46	16.71	10.20	42.66	26.91	64.42	54.42	21.76	27.51	N	PASS
3	0.384	28.24	19.15	10.15	38.39	29.30	58.19	48.19	19.80	18.89	N	PASS
4	2.724	22.87	10.04	10.32	33.19	20.36	56.00	46.00	22.81	25.64	N	PASS
5	3.1965	23.50	10.81	10.35	33.85	21.16	56.00	46.00	22.15	24.84	N	PASS
6	3.7995	23.36	13.26	10.36	33.72	23.62	56.00	46.00	22.28	22.38	N	PASS

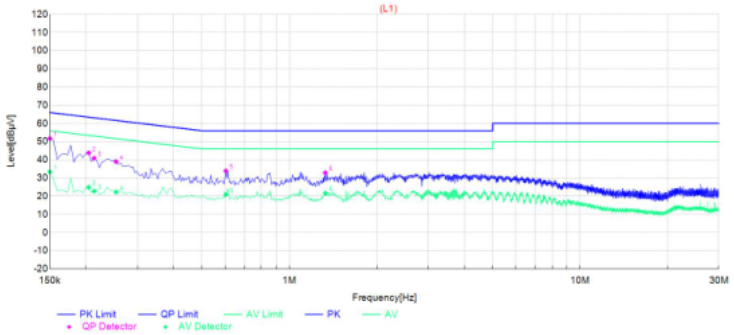
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

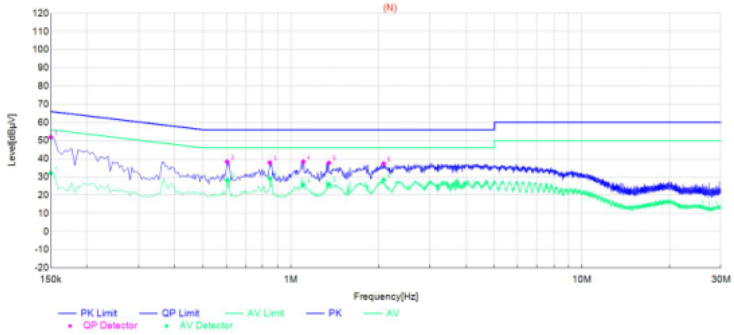
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	41.38	23.06	10.35	51.73	33.41	66.00	56.00	14.27	22.59	L1	PASS
2	0.204	33.63	14.75	10.15	43.78	24.90	63.45	53.45	19.67	28.55	L1	PASS
3	0.213	30.76	12.64	10.14	40.90	22.78	63.09	53.09	22.19	30.31	L1	PASS
4	0.2535	28.88	12.10	10.12	39.00	22.22	61.64	51.64	22.64	29.42	L1	PASS
5	0.6045	23.72	10.63	10.19	33.91	20.82	56.00	46.00	22.09	25.18	L1	PASS
6	1.329	22.68	11.47	10.22	32.90	21.69	56.00	46.00	23.10	24.31	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	41.51	21.71	10.35	51.86	32.06	66.00	56.00	14.14	23.94	N	PASS
2	0.6045	28.21	18.09	10.19	38.40	28.28	56.00	46.00	17.60	17.72	N	PASS
3	0.8475	27.67	18.97	10.24	37.91	29.21	56.00	46.00	18.09	16.79	N	PASS
4	1.104	28.16	15.33	10.21	38.37	25.54	56.00	46.00	17.63	20.46	N	PASS
5	1.3515	27.53	15.74	10.22	37.75	25.96	56.00	46.00	18.25	20.04	N	PASS
6	2.085	27.06	18.12	10.28	37.34	28.40	56.00	46.00	18.66	17.60	N	PASS

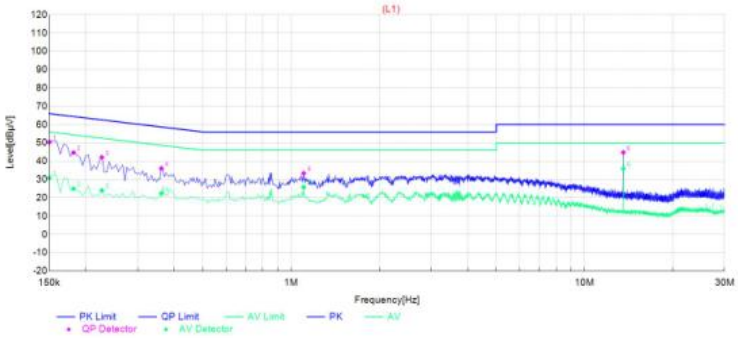
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



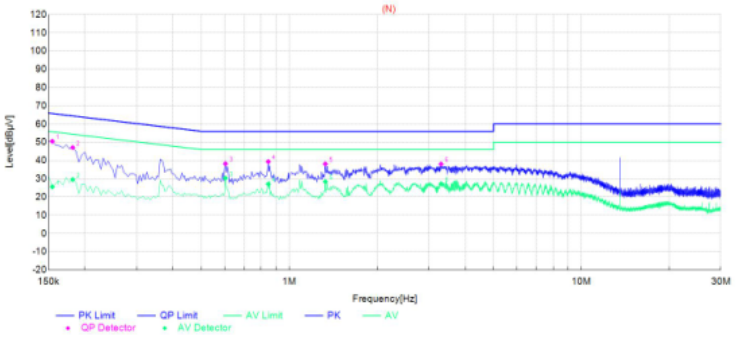
Final Data List												
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	40.00	20.46	10.35	50.35	30.81	66.00	56.00	15.65	25.19	L1	PASS
2	0.1815	34.52	14.80	10.20	44.72	25.00	64.42	54.42	19.70	29.42	L1	PASS
3	0.2265	31.95	13.96	10.14	42.09	24.10	62.58	52.58	20.49	28.48	L1	PASS
4	0.3615	25.92	12.28	10.14	36.06	22.42	58.69	48.69	22.63	26.27	L1	PASS
5	1.104	23.19	15.58	10.21	33.40	25.79	56.00	46.00	22.60	20.21	L1	PASS
6	13.56	33.94	25.03	10.88	44.82	35.91	60.00	50.00	15.18	14.09	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	40.19	15.23	10.33	50.52	25.56	65.75	55.75	15.23	30.19	N	PASS
2	0.1815	36.91	19.37	10.20	47.11	29.57	64.42	54.42	17.31	24.85	N	PASS
3	0.6045	28.06	20.15	10.19	38.25	30.34	56.00	46.00	17.75	15.66	N	PASS
4	0.8475	29.14	16.87	10.24	39.38	27.11	56.00	46.00	16.62	18.89	N	PASS
5	1.329	27.91	18.19	10.22	38.13	28.41	56.00	46.00	17.87	17.59	N	PASS
6	3.309	27.72	16.88	10.35	38.07	27.23	56.00	46.00	17.93	18.77	N	PASS

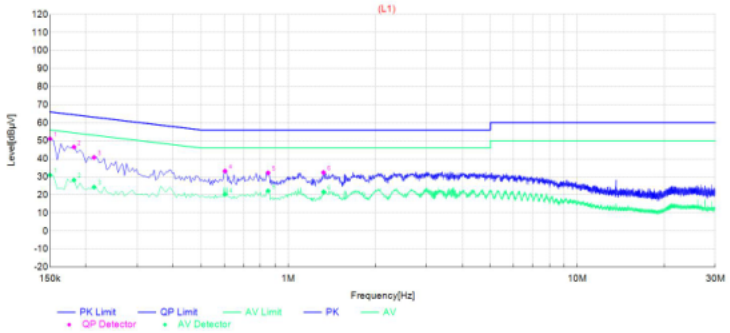
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

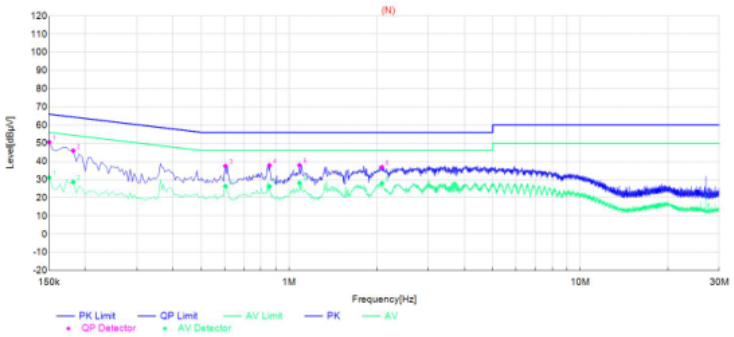
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	40.75	20.64	10.35	51.10	30.99	66.00	56.00	14.90	25.01	L1	PASS
2	0.1815	36.36	18.04	10.20	46.56	28.24	64.42	54.42	17.86	26.18	L1	PASS
3	0.213	30.66	14.19	10.14	40.80	24.33	63.09	53.09	22.29	28.76	L1	PASS
4	0.6045	23.04	10.11	10.19	33.23	20.30	56.00	46.00	22.77	25.70	L1	PASS
5	0.852	22.02	12.00	10.24	32.26	22.24	56.00	46.00	23.74	23.76	L1	PASS
6	1.3245	22.19	11.44	10.22	32.41	21.66	56.00	46.00	23.59	24.34	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	0.15	40.25	20.80	10.35	50.60	31.15	66.00	56.00	15.40	24.85	N	PASS
2	0.1815	35.73	18.47	10.20	45.93	28.67	64.42	54.42	18.49	25.75	N	PASS
3	0.6045	27.31	16.24	10.19	37.50	26.43	56.00	46.00	18.50	19.57	N	PASS
4	0.8565	27.61	16.07	10.24	37.85	26.31	56.00	46.00	18.15	19.69	N	PASS
5	1.086	27.69	17.98	10.21	37.90	28.19	56.00	46.00	18.10	17.81	N	PASS
6	2.085	26.56	17.73	10.28	36.84	28.01	56.00	46.00	19.16	17.99	N	PASS

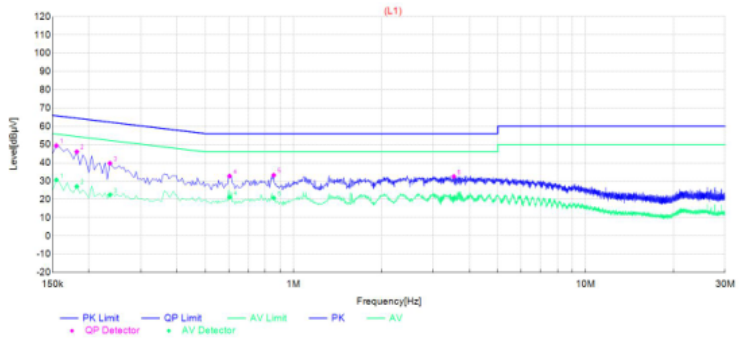
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



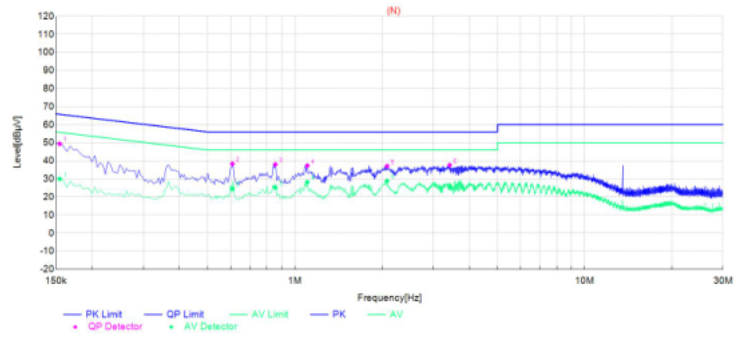
Final Data List												
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	39.07	20.32	10.33	49.40	30.65	65.75	55.75	16.35	25.10	L1	PASS
2	0.1815	35.88	16.89	10.20	46.08	27.09	64.42	54.42	18.34	27.33	L1	PASS
3	0.2355	29.62	12.32	10.13	39.75	22.45	62.25	52.25	22.50	29.80	L1	PASS
4	0.6045	22.58	10.94	10.19	32.77	21.13	56.00	46.00	23.23	24.87	L1	PASS
5	0.8565	22.99	10.51	10.24	33.23	20.75	56.00	46.00	22.77	25.25	L1	PASS
6	3.5385	22.16	10.23	10.36	32.52	20.59	56.00	46.00	23.48	25.41	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	39.08	19.63	10.33	49.41	29.96	65.75	55.75	16.34	25.79	N	PASS
2	0.609	28.15	14.40	10.20	38.35	24.60	56.00	46.00	17.65	21.40	N	PASS
3	0.8565	27.81	14.92	10.24	38.05	25.16	56.00	46.00	17.95	20.84	N	PASS
4	1.104	27.16	18.01	10.21	37.37	28.22	56.00	46.00	18.63	17.78	N	PASS
5	2.0805	26.83	18.58	10.28	37.11	28.86	56.00	46.00	18.89	17.14	N	PASS
6	3.4215	27.30	14.78	10.35	37.65	25.13	56.00	46.00	18.35	20.87	N	PASS

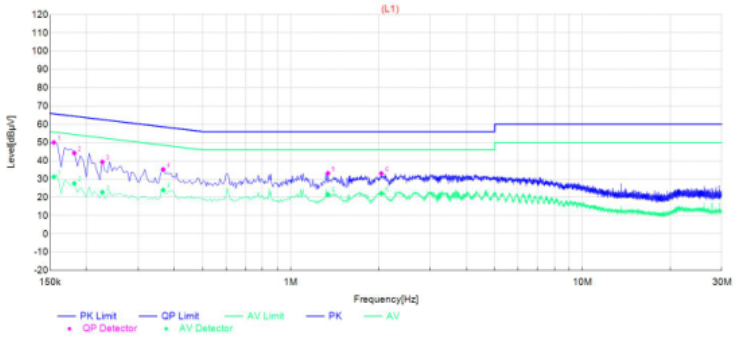
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



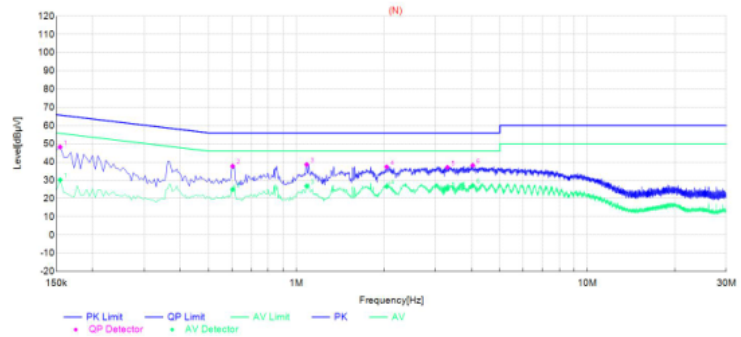
Final Data List												
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	39.72	20.90	10.33	50.05	31.23	65.75	55.75	15.70	24.52	L1	PASS
2	0.1815	34.08	17.43	10.20	44.28	27.63	64.42	54.42	20.14	26.79	L1	PASS
3	0.2265	29.22	12.70	10.14	39.36	22.84	62.58	52.58	23.22	29.74	L1	PASS
4	0.366	25.18	13.93	10.14	35.32	24.07	58.59	48.59	23.27	24.52	L1	PASS
5	1.3425	22.96	11.33	10.22	33.18	21.55	56.00	46.00	22.82	24.45	L1	PASS
6	2.0445	22.79	11.78	10.27	33.06	22.05	56.00	46.00	22.94	23.95	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	37.91	19.88	10.33	48.24	30.21	65.75	55.75	17.51	25.54	N	PASS
2	0.6045	27.56	14.75	10.19	37.75	24.94	56.00	46.00	18.25	21.06	N	PASS
3	1.086	28.44	16.68	10.21	38.65	26.89	56.00	46.00	17.35	19.11	N	PASS
4	2.0445	27.09	16.31	10.27	37.36	26.58	56.00	46.00	18.64	19.42	N	PASS
5	3.3045	26.75	14.84	10.35	37.10	25.19	56.00	46.00	18.90	20.81	N	PASS
6	4.038	27.85	16.76	10.37	38.22	27.13	56.00	46.00	17.78	18.87	N	PASS

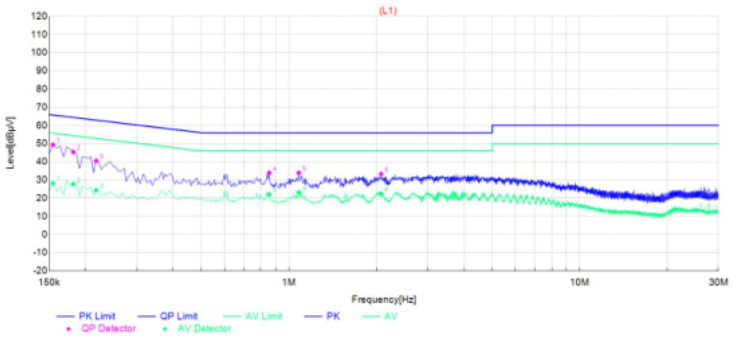
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

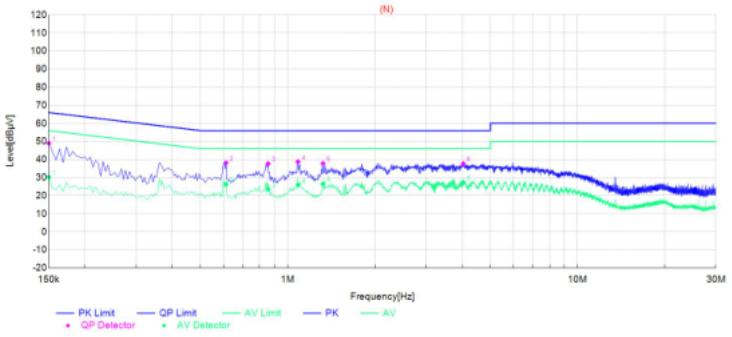
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.1545	39.06	17.87	10.33	49.39	28.20	65.75	55.75	16.36	27.55	L1	PASS
2	0.1815	35.16	17.63	10.20	45.36	27.83	64.42	54.42	19.06	26.59	L1	PASS
3	0.2175	30.44	14.24	10.14	40.58	24.38	62.91	52.91	22.33	28.53	L1	PASS
4	0.8565	23.73	11.83	10.24	33.97	22.07	56.00	46.00	22.03	23.93	L1	PASS
5	1.0815	23.77	12.92	10.21	33.98	23.13	56.00	46.00	22.02	22.87	L1	PASS
6	2.076	22.98	12.14	10.28	33.26	22.42	56.00	46.00	22.74	23.58	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	38.64	19.96	10.35	48.99	30.31	66.00	56.00	17.01	25.69	N	PASS
2	0.6135	27.98	16.23	10.20	38.18	26.43	56.00	46.00	17.82	19.57	N	PASS
3	0.8565	27.47	13.33	10.24	37.71	23.57	56.00	46.00	18.29	22.43	N	PASS
4	1.086	28.55	15.72	10.21	38.76	25.93	56.00	46.00	17.24	20.07	N	PASS
5	1.3245	27.63	16.37	10.22	37.85	26.59	56.00	46.00	18.15	19.41	N	PASS
6	4.0335	27.38	17.01	10.37	37.75	27.38	56.00	46.00	18.25	18.62	N	PASS

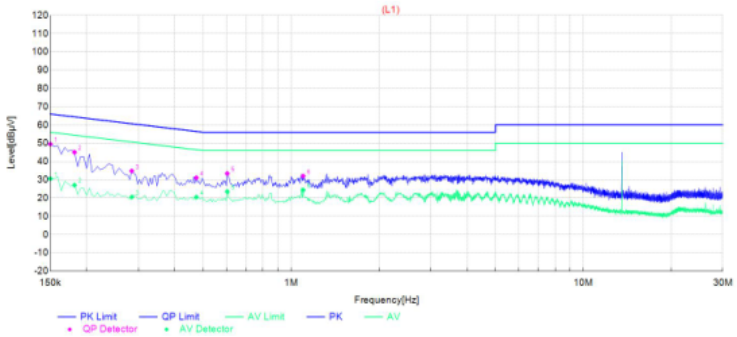
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

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

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

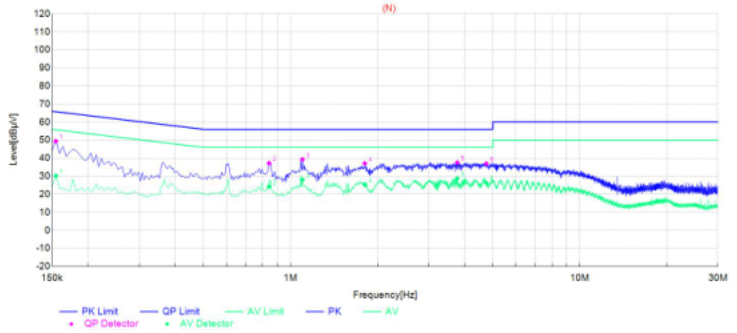
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	39.16	20.22	10.35	49.51	30.57	66.00	56.00	16.49	25.43	L1	PASS
2	0.1815	34.86	16.88	10.20	45.06	27.08	64.42	54.42	19.36	27.34	L1	PASS
3	0.285	24.70	10.47	10.10	34.80	20.57	60.67	50.67	25.87	30.10	L1	PASS
4	0.474	20.92	10.25	10.24	31.16	20.49	56.44	46.44	25.28	25.95	L1	PASS
5	0.6045	23.27	13.31	10.19	33.46	23.50	56.00	46.00	22.54	22.50	L1	PASS
6	1.0995	21.82	14.19	10.21	32.03	24.40	56.00	46.00	23.97	21.60	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	39.08	19.87	10.33	49.41	30.20	65.75	55.75	16.34	25.55	N	PASS
2	0.843	26.98	13.99	10.24	37.22	24.23	56.00	46.00	18.78	21.77	N	PASS
3	1.0995	29.09	17.86	10.21	39.30	28.07	56.00	46.00	16.70	17.93	N	PASS
4	1.806	26.85	15.09	10.26	37.11	25.35	56.00	46.00	18.89	20.65	N	PASS
5	3.7725	27.20	18.38	10.36	37.56	28.74	56.00	46.00	18.44	17.26	N	PASS
6	4.7535	26.63	15.89	10.35	36.98	26.24	56.00	46.00	19.02	19.76	N	PASS

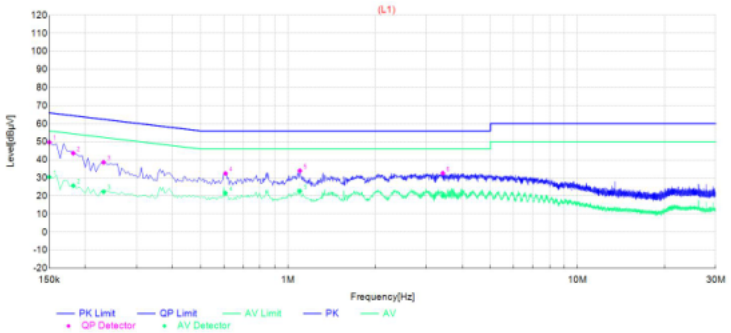
Note:1. Result (dBµV) = Reading (dBµV) + Factor (dB).

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

Adapter: CYSE65-240250

Power supply:	AC 120V/60Hz	Polarization	L

Test Graph



Final Data List

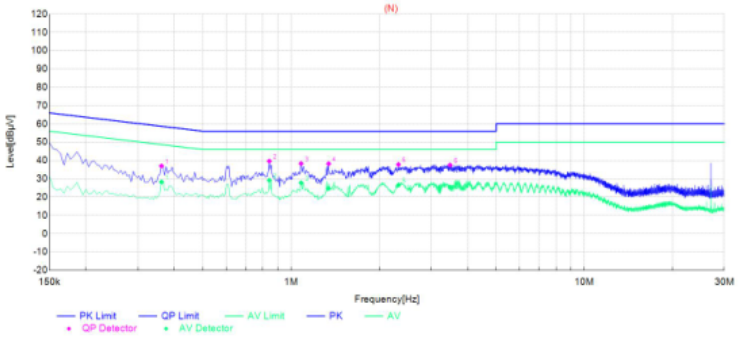
NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.15	39.39	20.11	10.35	49.74	30.46	66.00	56.00	16.26	25.54	L1	PASS
2	0.1815	33.46	15.52	10.20	43.66	25.72	64.42	54.42	20.76	28.70	L1	PASS
3	0.231	28.49	12.21	10.13	38.62	22.34	62.41	52.41	23.79	30.07	L1	PASS
4	0.609	22.24	11.43	10.20	32.44	21.63	56.00	46.00	23.56	24.37	L1	PASS
5	1.0995	23.76	12.55	10.21	33.97	22.76	56.00	46.00	22.03	23.24	L1	PASS
6	3.426	22.25	9.67	10.35	32.60	20.02	56.00	46.00	23.40	25.98	L1	PASS

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

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

Power supply:	AC 120V/60Hz	Polarization	N

Test Graph



Final Data List

NO.	Frequency	QP Reading	AVG. Reading	Factor	QP Result	AVG. Result	QP Limit	AVG. Limit	QP Margin	AVG. Margin	Line	Remark
1	0.3615	26.87	18.10	10.14	37.01	28.24	58.69	48.69	21.68	20.45	N	PASS
2	0.843	29.41	18.94	10.24	39.65	29.18	56.00	46.00	16.35	16.82	N	PASS
3	1.0815	28.11	17.58	10.21	38.32	27.79	56.00	46.00	17.68	18.21	N	PASS
4	1.3425	28.03	14.60	10.22	38.25	24.82	56.00	46.00	17.75	21.18	N	PASS
5	2.3235	27.55	16.26	10.29	37.84	26.55	56.00	46.00	18.16	19.45	N	PASS
6	3.4845	27.18	15.05	10.35	37.53	25.40	56.00	46.00	18.47	20.60	N	PASS

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

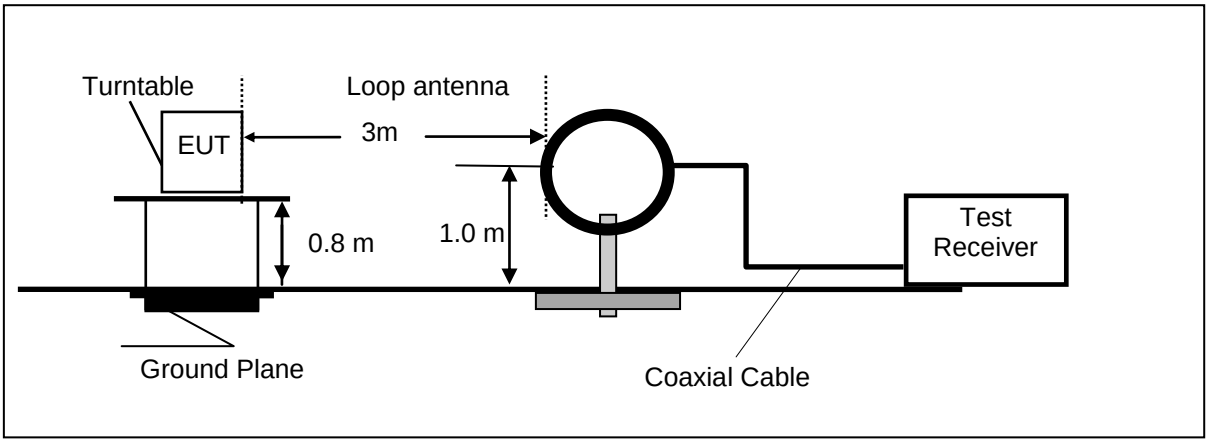
2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

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).

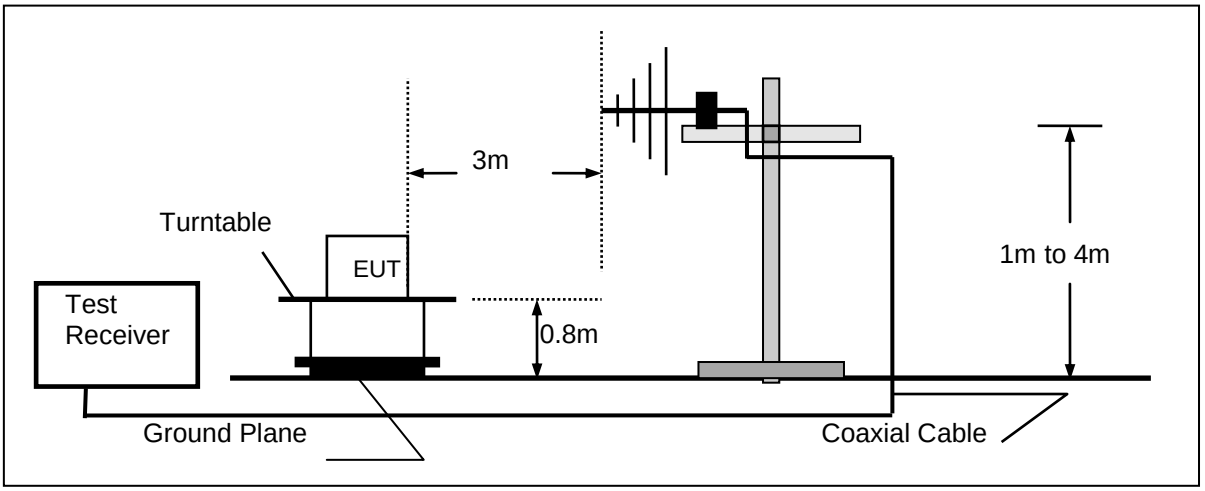
4.2. Radiated Emission

TEST CONFIGURATION

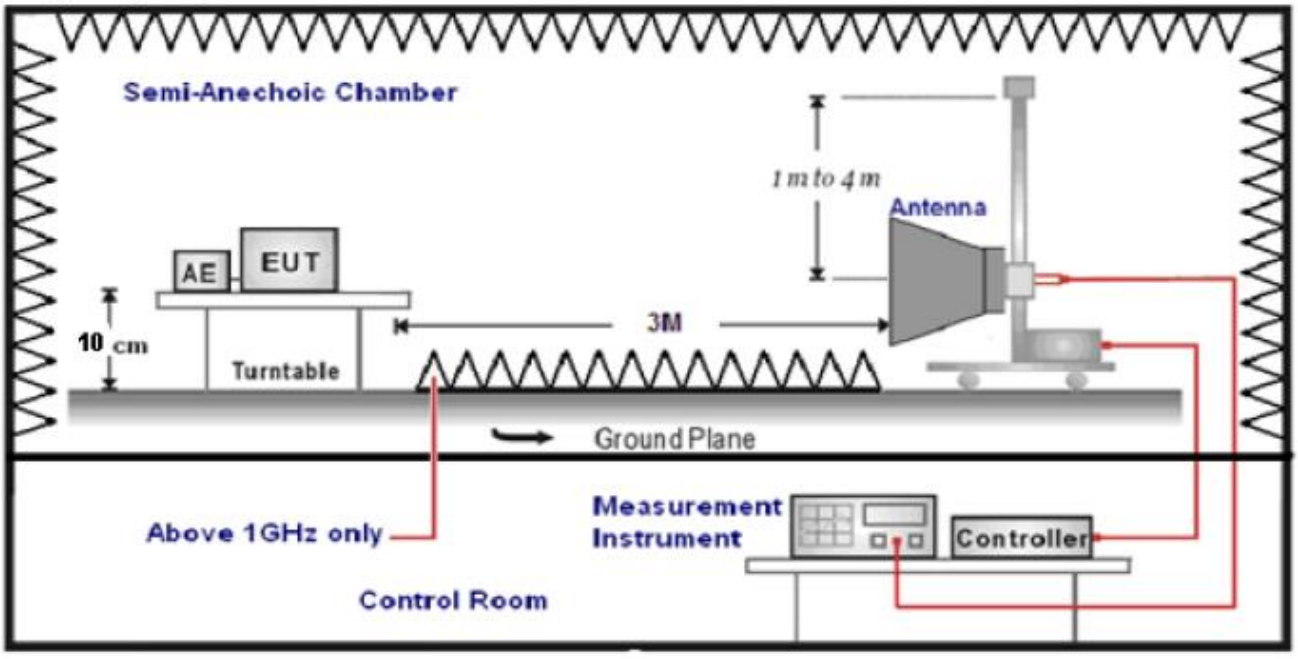
Frequency range 9 KHz – 30MHz



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 Anternna	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 the100kHz 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	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(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℃	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

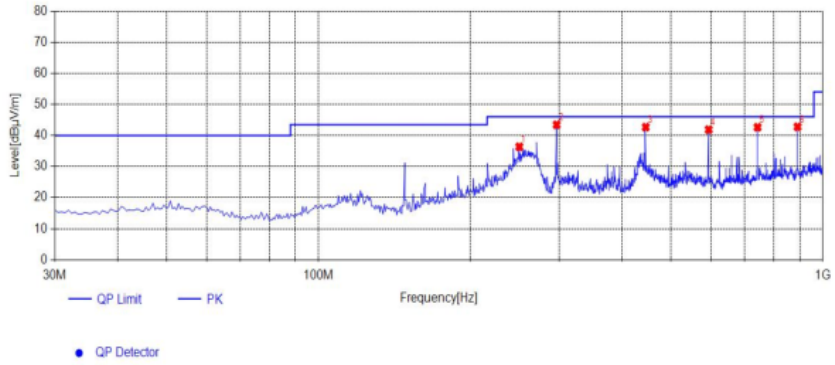
Note:
The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor.

For 30MHz-1GHz
Version A:

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

Horizontal

Test Graph



Suspected List

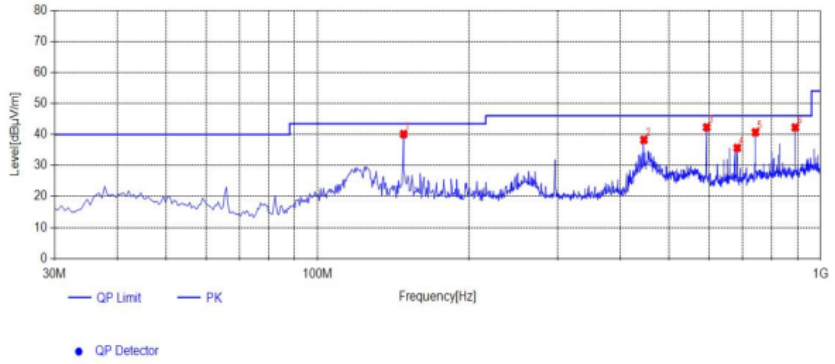
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	250.19	45.07	-8.70	36.37	46.00	9.63	100	285	PK	Horizonta	PASS
2	296.75	51.01	-7.56	43.45	46.00	2.55	100	272	PK	Horizonta	PASS
3	445.645	46.59	-3.91	42.68	46.00	3.32	100	29	PK	Horizonta	PASS
4	594.055	42.49	-0.60	41.89	46.00	4.11	100	73	PK	Horizonta	PASS
5	742.465	41.52	1.13	42.65	46.00	3.35	100	328	PK	Horizonta	PASS
6	891.36	40.80	1.98	42.78	46.00	3.22	100	73	PK	Horizonta	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	148.34	54.36	-14.22	40.14	43.50	3.36	100	334	PK	Vertical	PASS
2	445.645	42.17	-3.91	38.26	46.00	7.74	100	118	PK	Vertical	PASS
3	594.055	42.93	-0.60	42.33	46.00	3.67	100	108	PK	Vertical	PASS
4	683.295	35.19	0.49	35.68	46.00	10.32	100	105	PK	Vertical	PASS
5	742.465	39.57	1.13	40.70	46.00	5.30	100	161	PK	Vertical	PASS
6	891.36	40.29	1.98	42.27	46.00	3.73	100	35	PK	Vertical	PASS

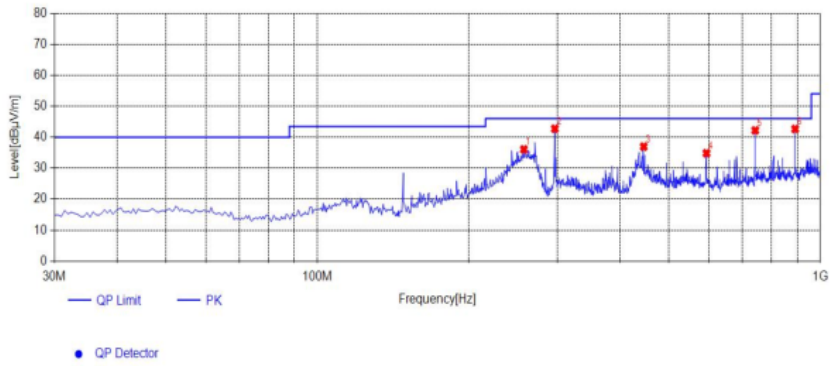
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



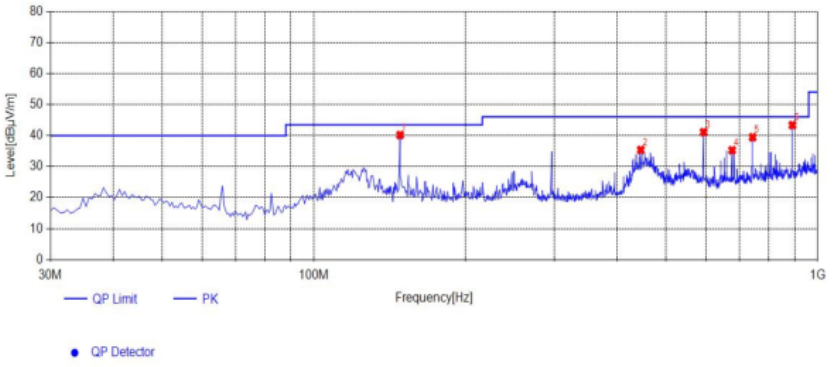
Suspected List											
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	257.465	44.45	-8.38	36.07	46.00	9.93	100	270	PK	Horizonta	PASS
2	296.75	50.30	-7.56	42.74	46.00	3.26	100	250	PK	Horizonta	PASS
3	445.645	40.87	-3.91	36.96	46.00	9.04	100	181	PK	Horizonta	PASS
4	594.055	35.44	-0.60	34.84	46.00	11.16	100	15	PK	Horizonta	PASS
5	742.465	41.07	1.13	42.20	46.00	3.80	100	327	PK	Horizonta	PASS
6	891.36	40.68	1.98	42.66	46.00	3.34	100	290	PK	Horizonta	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	148.34	54.40	-14.22	40.18	43.50	3.32	100	334	PK	Vertical	PASS
2	445.645	39.29	-3.91	35.38	46.00	10.62	100	105	PK	Vertical	PASS
3	594.055	41.70	-0.60	41.10	46.00	4.90	100	278	PK	Vertical	PASS
4	676.505	34.83	0.44	35.27	46.00	10.73	100	109	PK	Vertical	PASS
5	742.95	38.32	1.13	39.45	46.00	6.55	100	128	PK	Vertical	PASS
6	891.36	41.39	1.98	43.37	46.00	2.63	100	324	PK	Vertical	PASS

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

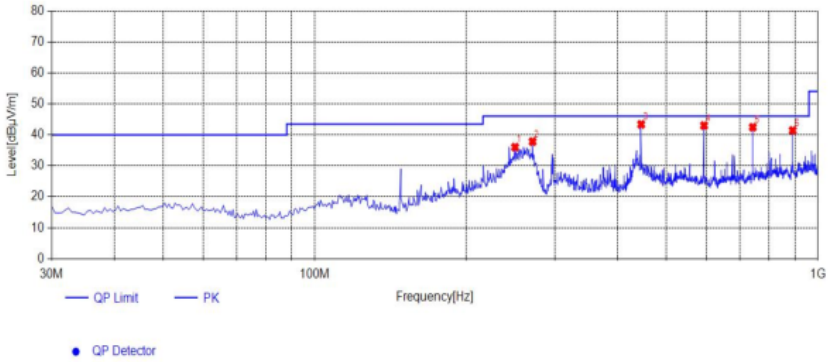
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version B:

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

Horizontal

Test Graph



Suspected List

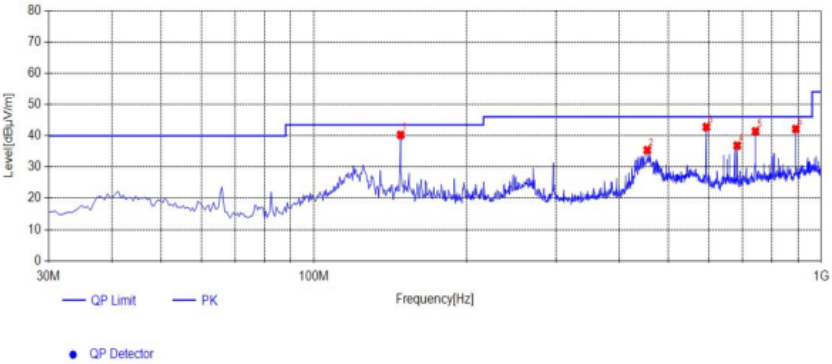
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	250.19	44.72	-8.70	36.02	46.00	9.98	100	96	PK	Horizonta	PASS
2	271.045	45.70	-7.88	37.82	46.00	8.18	100	255	PK	Horizonta	PASS
3	445.645	47.29	-3.91	43.38	46.00	2.62	100	36	PK	Horizonta	PASS
4	594.055	43.60	-0.60	43.00	46.00	3.00	100	259	PK	Horizonta	PASS
5	742.465	41.32	1.13	42.45	46.00	3.55	100	338	PK	Horizonta	PASS
6	891.36	39.43	1.98	41.41	46.00	4.59	100	315	PK	Horizonta	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	148.34	54.48	-14.22	40.26	43.50	3.24	100	327	PK	Vertical	PASS
2	454.375	39.13	-3.73	35.40	46.00	10.60	100	3	PK	Vertical	PASS
3	594.055	43.37	-0.60	42.77	46.00	3.23	100	0	PK	Vertical	PASS
4	683.295	36.36	0.49	36.85	46.00	9.15	100	108	PK	Vertical	PASS
5	742.465	40.28	1.13	41.41	46.00	4.59	100	172	PK	Vertical	PASS
6	891.36	40.17	1.98	42.15	46.00	3.85	100	290	PK	Vertical	PASS

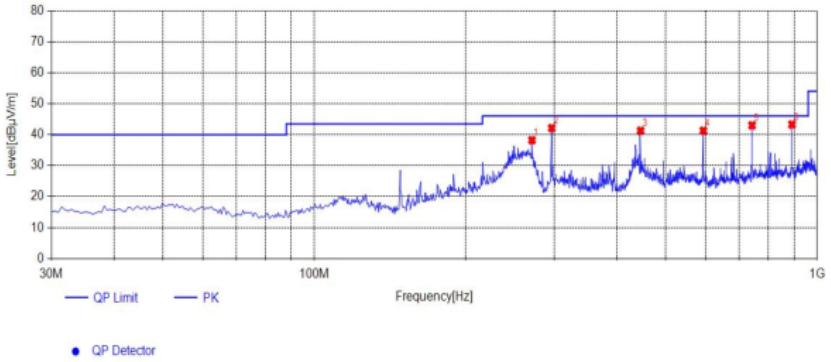
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

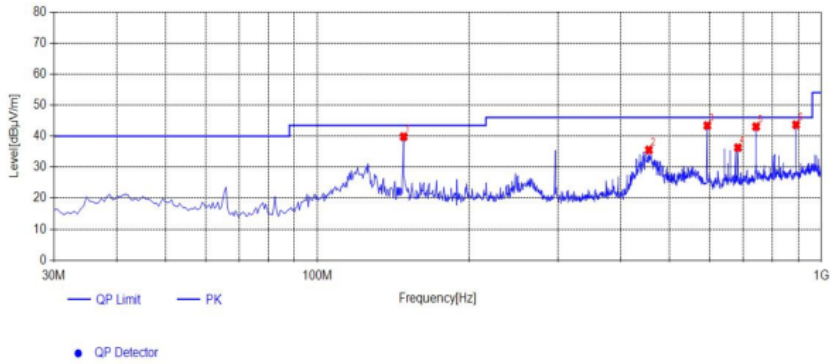
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	271.045	46.09	-7.88	38.21	46.00	7.79	100	63	PK	Horizonta	PASS
2	296.75	49.69	-7.56	42.13	46.00	3.87	100	241	PK	Horizonta	PASS
3	445.645	45.19	-3.91	41.28	46.00	4.72	100	195	PK	Horizonta	PASS
4	594.055	41.88	-0.60	41.28	46.00	4.72	100	215	PK	Horizonta	PASS
5	742.465	41.88	1.13	43.01	46.00	2.99	100	254	PK	Horizonta	PASS
6	891.36	41.30	1.98	43.28	46.00	2.72	100	241	PK	Horizonta	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	148.34	54.06	-14.22	39.84	43.50	3.66	100	338	PK	Vertical	PASS
2	454.86	39.29	-3.72	35.57	46.00	10.43	100	3	PK	Vertical	PASS
3	594.055	44.03	-0.60	43.43	46.00	2.57	100	6	PK	Vertical	PASS
4	683.295	35.80	0.49	36.29	46.00	9.71	100	106	PK	Vertical	PASS
5	742.465	41.93	1.13	43.06	46.00	2.94	100	328	PK	Vertical	PASS
6	891.36	41.69	1.98	43.67	46.00	2.33	100	344	PK	Vertical	PASS

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

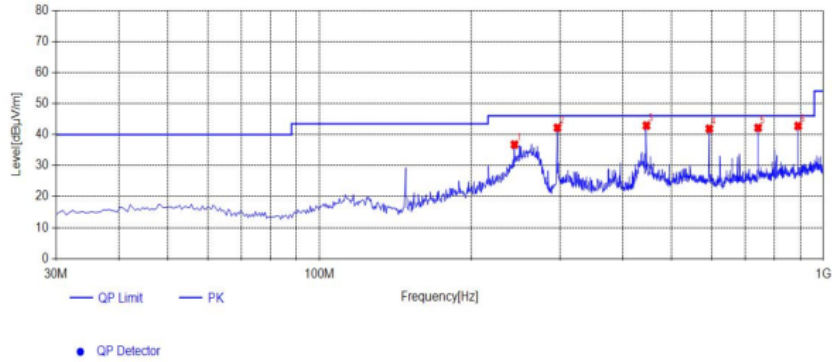
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version C:

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

Horizontal

Test Graph



Suspected List

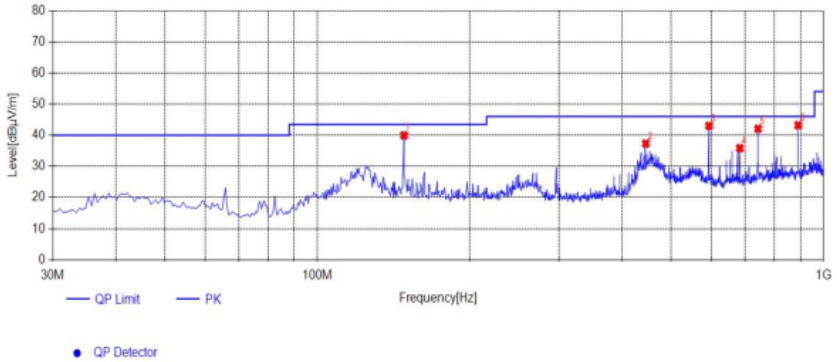
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	243.885	45.73	-8.96	36.77	46.00	9.23	100	282	PK	Horizonta	PASS
2	296.75	49.76	-7.56	42.20	46.00	3.80	100	255	PK	Horizonta	PASS
3	445.645	46.81	-3.91	42.90	46.00	3.10	100	30	PK	Horizonta	PASS
4	594.055	42.47	-0.60	41.87	46.00	4.13	100	59	PK	Horizonta	PASS
5	742.465	41.04	1.13	42.17	46.00	3.83	100	328	PK	Horizonta	PASS
6	891.36	40.78	1.98	42.76	46.00	3.24	100	52	PK	Horizonta	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	148.34	54.18	-14.22	39.96	43.50	3.54	100	357	PK	Vertical	PASS
2	445.645	41.23	-3.91	37.32	46.00	8.68	100	0	PK	Vertical	PASS
3	594.055	43.62	-0.60	43.02	46.00	2.98	100	358	PK	Vertical	PASS
4	683.295	35.35	0.49	35.84	46.00	10.16	100	109	PK	Vertical	PASS
5	742.465	40.96	1.13	42.09	46.00	3.91	100	155	PK	Vertical	PASS
6	891.36	41.23	1.98	43.21	46.00	2.79	100	47	PK	Vertical	PASS

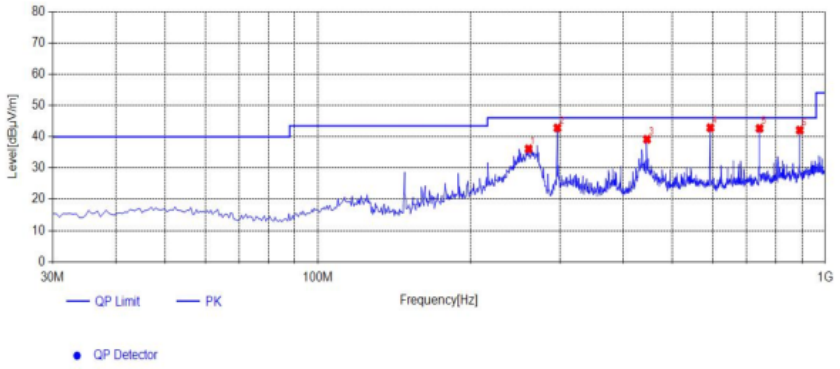
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

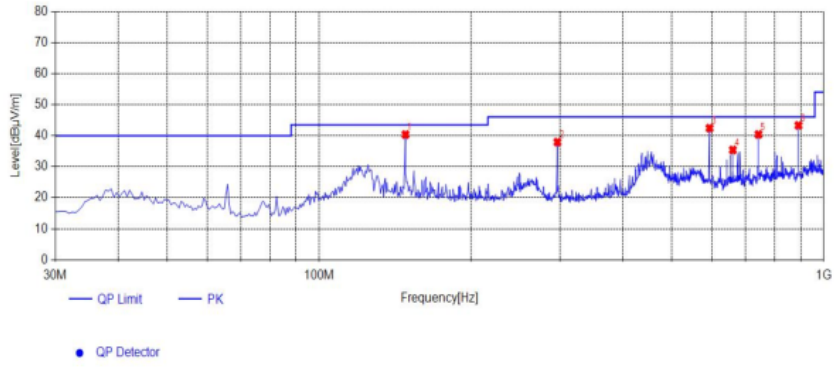
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	260.375	44.38	-8.26	36.12	46.00	9.88	100	274	PK	Horizonta	PASS
2	296.75	50.37	-7.56	42.81	46.00	3.19	100	264	PK	Horizonta	PASS
3	445.645	43.10	-3.91	39.19	46.00	6.81	100	154	PK	Horizonta	PASS
4	594.055	43.47	-0.60	42.87	46.00	3.13	100	230	PK	Horizonta	PASS
5	742.465	41.54	1.13	42.67	46.00	3.33	100	257	PK	Horizonta	PASS
6	891.36	40.13	1.98	42.11	46.00	3.89	100	131	PK	Horizonta	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	148.34	54.58	-14.22	40.36	43.50	3.14	100	214	PK	Vertical	PASS
2	296.75	45.49	-7.56	37.93	46.00	8.07	100	344	PK	Vertical	PASS
3	594.055	43.03	-0.60	42.43	46.00	3.57	100	125	PK	Vertical	PASS
4	660.5	35.12	0.28	35.40	46.00	10.60	100	125	PK	Vertical	PASS
5	742.465	39.27	1.13	40.40	46.00	5.60	100	138	PK	Vertical	PASS
6	891.36	41.33	1.98	43.31	46.00	2.69	100	354	PK	Vertical	PASS

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

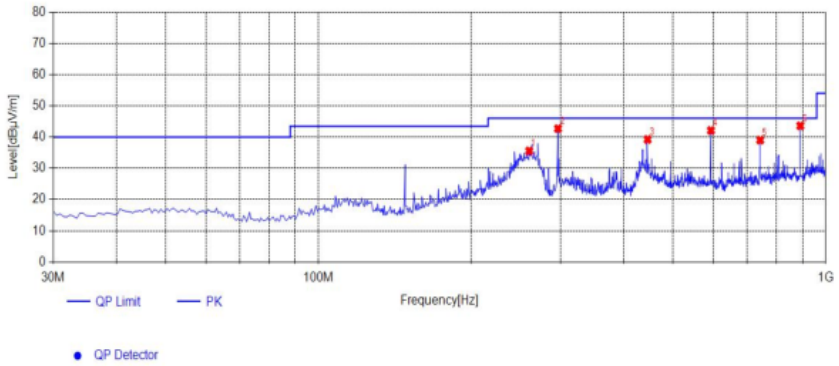
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version D:

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

Horizontal

Test Graph



Suspected List

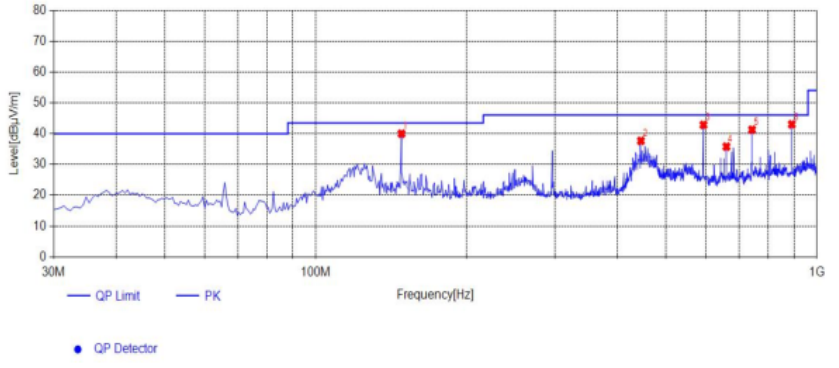
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	260.375	43.84	-8.26	35.58	46.00	10.42	100	301	PK	Horizonta	PASS
2	296.75	50.26	-7.56	42.70	46.00	3.30	100	281	PK	Horizonta	PASS
3	445.645	43.15	-3.91	39.24	46.00	6.76	100	217	PK	Horizonta	PASS
4	594.055	42.72	-0.60	42.12	46.00	3.88	100	264	PK	Horizonta	PASS
5	742.95	37.91	1.13	39.04	46.00	6.96	100	49	PK	Horizonta	PASS
6	891.36	41.63	1.98	43.61	46.00	2.39	100	327	PK	Horizonta	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	148.34	54.21	-14.22	39.99	43.50	3.51	100	330	PK	Vertical	PASS
2	445.645	41.58	-3.91	37.67	46.00	8.33	100	12	PK	Vertical	PASS
3	594.055	43.46	-0.60	42.86	46.00	3.14	100	6	PK	Vertical	PASS
4	660.015	35.51	0.28	35.79	46.00	10.21	100	131	PK	Vertical	PASS
5	742.465	40.14	1.13	41.27	46.00	4.73	100	131	PK	Vertical	PASS
6	891.36	41.04	1.98	43.02	46.00	2.98	100	330	PK	Vertical	PASS

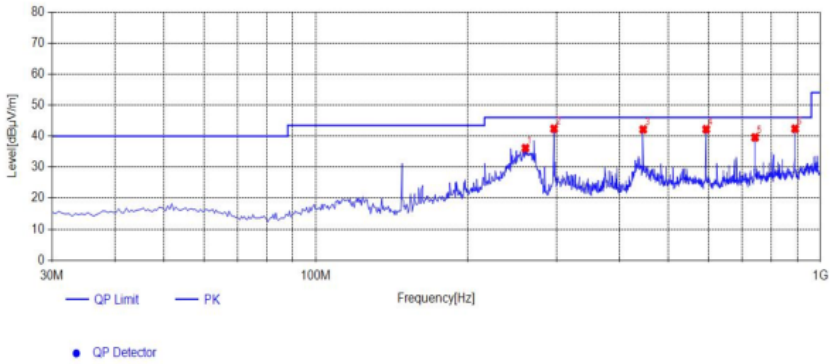
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

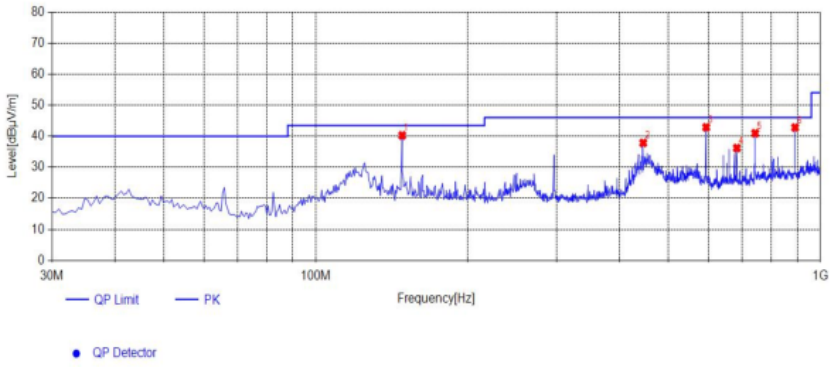
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	260.375	44.40	-8.26	36.14	46.00	9.86	100	105	PK	Horizonta	PASS
2	296.75	49.95	-7.56	42.39	46.00	3.61	100	310	PK	Horizonta	PASS
3	445.645	46.07	-3.91	42.16	46.00	3.84	100	85	PK	Horizonta	PASS
4	594.055	42.81	-0.60	42.21	46.00	3.79	100	274	PK	Horizonta	PASS
5	742.465	38.46	1.13	39.59	46.00	6.41	100	45	PK	Horizonta	PASS
6	891.36	40.39	1.98	42.37	46.00	3.63	100	328	PK	Horizonta	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	148.34	54.50	-14.22	40.28	43.50	3.22	100	328	PK	Vertical	PASS
2	445.645	41.77	-3.91	37.86	46.00	8.14	100	132	PK	Vertical	PASS
3	594.055	43.49	-0.60	42.89	46.00	3.11	100	142	PK	Vertical	PASS
4	683.295	35.70	0.49	36.19	46.00	9.81	100	109	PK	Vertical	PASS
5	742.95	39.83	1.13	40.96	46.00	5.04	100	135	PK	Vertical	PASS
6	891.36	40.83	1.98	42.81	46.00	3.19	100	311	PK	Vertical	PASS

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

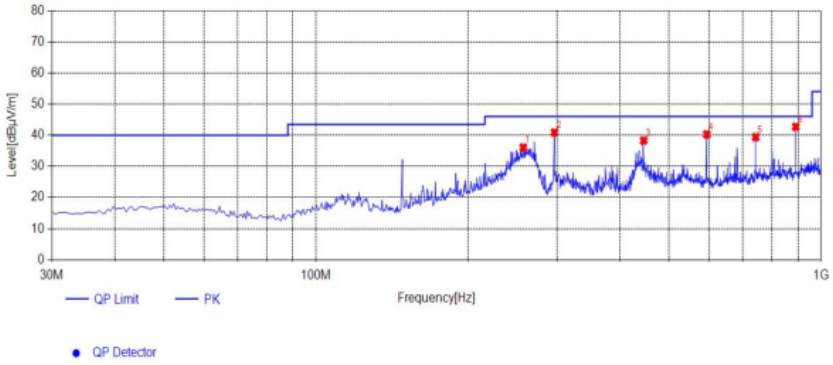
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version E

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

Horizontal

Test Graph



Suspected List

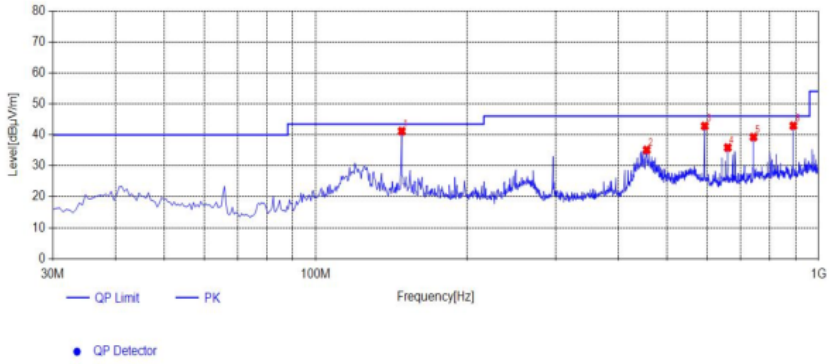
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	257.465	44.44	-8.38	36.06	46.00	9.94	100	291	PK	Horizonta	PASS
2	296.75	48.45	-7.56	40.89	46.00	5.11	100	281	PK	Horizonta	PASS
3	445.645	42.20	-3.91	38.29	46.00	7.71	100	221	PK	Horizonta	PASS
4	594.055	40.90	-0.60	40.30	46.00	5.70	100	258	PK	Horizonta	PASS
5	742.465	38.25	1.13	39.38	46.00	6.62	100	43	PK	Horizonta	PASS
6	891.36	40.72	1.98	42.70	46.00	3.30	100	318	PK	Horizonta	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	148.34	55.40	-14.22	41.18	43.50	2.32	100	327	PK	Vertical	PASS
2	455.345	38.84	-3.71	35.13	46.00	10.87	100	0	PK	Vertical	PASS
3	594.055	43.46	-0.60	42.86	46.00	3.14	100	311	PK	Vertical	PASS
4	660.015	35.60	0.28	35.88	46.00	10.12	100	96	PK	Vertical	PASS
5	742.465	38.14	1.13	39.27	46.00	6.73	100	166	PK	Vertical	PASS
6	891.36	40.96	1.98	42.94	46.00	3.06	100	235	PK	Vertical	PASS

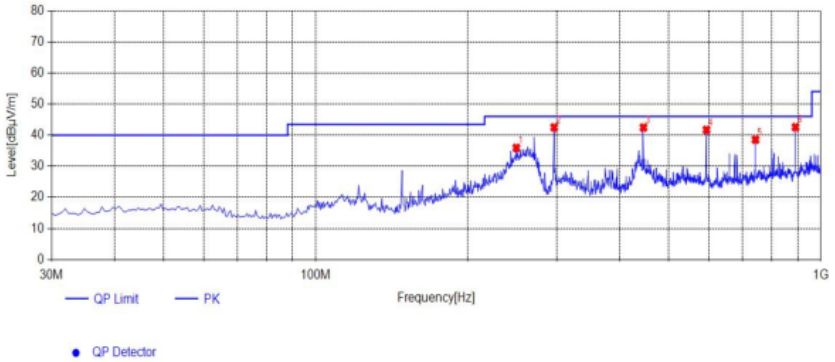
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

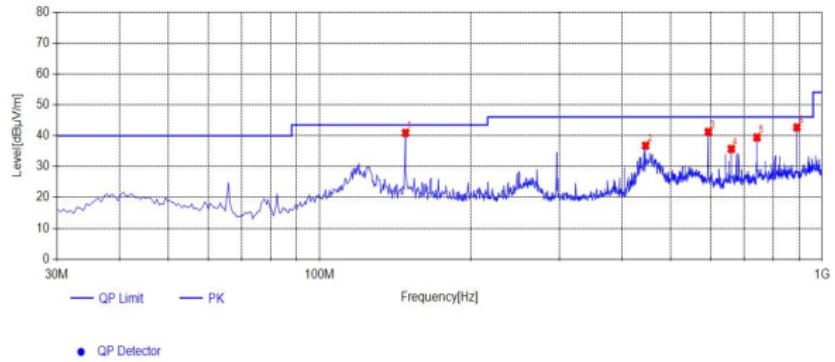
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	249.705	44.64	-8.72	35.92	46.00	10.08	100	115	PK	Horizonta	PASS
2	296.75	50.07	-7.56	42.51	46.00	3.49	100	301	PK	Horizonta	PASS
3	445.645	46.36	-3.91	42.45	46.00	3.55	100	3	PK	Horizonta	PASS
4	594.055	42.32	-0.60	41.72	46.00	4.28	100	52	PK	Horizonta	PASS
5	742.465	37.41	1.13	38.54	46.00	7.46	100	98	PK	Horizonta	PASS
6	891.36	40.59	1.98	42.57	46.00	3.43	100	311	PK	Horizonta	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	148.34	55.14	-14.22	40.92	43.50	2.58	100	225	PK	Vertical	PASS
2	445.645	40.66	-3.91	36.75	46.00	9.25	100	311	PK	Vertical	PASS
3	594.055	41.82	-0.60	41.22	46.00	4.78	100	2	PK	Vertical	PASS
4	660.015	35.43	0.28	35.71	46.00	10.29	100	119	PK	Vertical	PASS
5	742.465	38.30	1.13	39.43	46.00	6.57	100	199	PK	Vertical	PASS
6	891.36	40.69	1.98	42.67	46.00	3.33	100	136	PK	Vertical	PASS

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

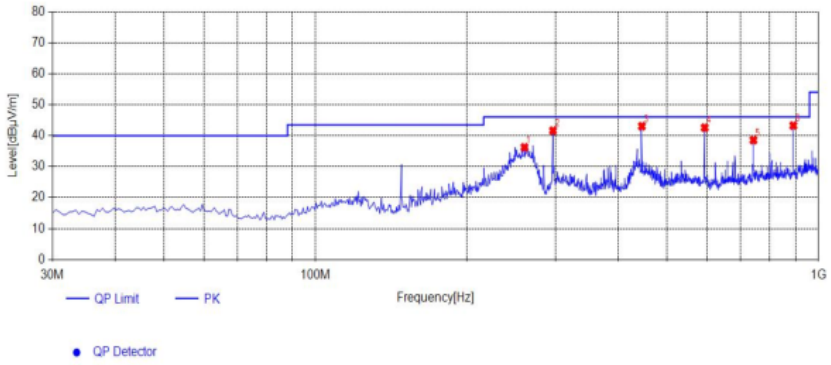
2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

Version F:

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

Horizontal

Test Graph



Suspected List

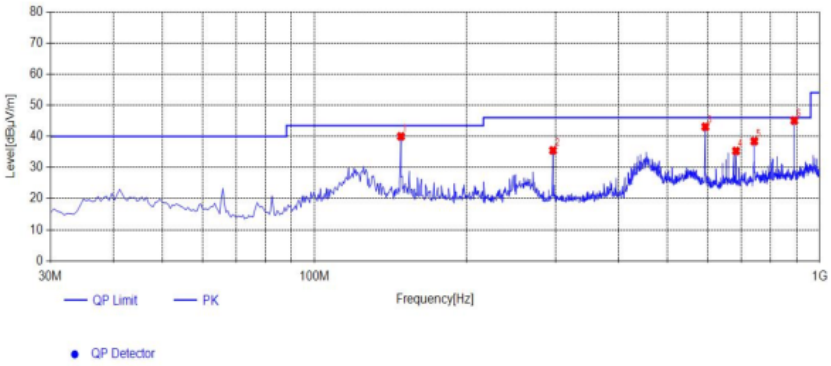
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	260.375	44.48	-8.26	36.22	46.00	9.78	100	274	PK	Horizonta	PASS
2	296.75	49.18	-7.56	41.62	46.00	4.38	100	284	PK	Horizonta	PASS
3	445.645	46.95	-3.91	43.04	46.00	2.96	100	86	PK	Horizonta	PASS
4	594.055	43.19	-0.60	42.59	46.00	3.41	100	16	PK	Horizonta	PASS
5	742.465	37.43	1.13	38.56	46.00	7.44	100	49	PK	Horizonta	PASS
6	891.36	41.27	1.98	43.25	46.00	2.75	100	343	PK	Horizonta	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	148.34	54.24	-14.22	40.02	43.50	3.48	100	330	PK	Vertical	PASS
2	296.75	43.07	-7.56	35.51	46.00	10.49	100	354	PK	Vertical	PASS
3	594.055	43.68	-0.60	43.08	46.00	2.92	100	86	PK	Vertical	PASS
4	683.295	34.82	0.49	35.31	46.00	10.69	100	158	PK	Vertical	PASS
5	742.465	37.32	1.13	38.45	46.00	7.55	100	178	PK	Vertical	PASS
6	891.36	43.10	1.98	45.08	46.00	0.92	100	132	PK	Vertical	PASS

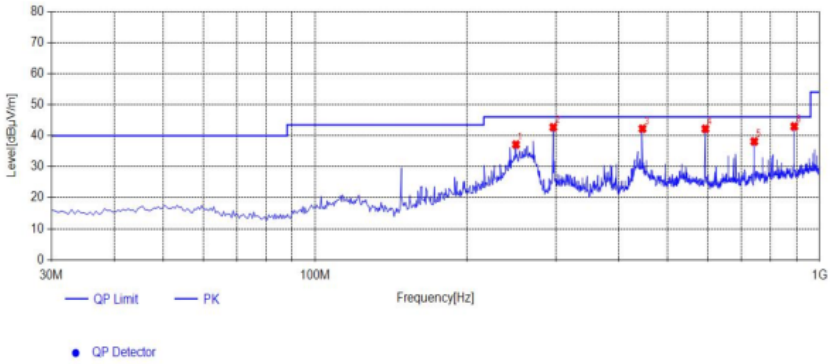
Note:1. Result (dBµV/m) = Reading(dBµV/m) + Factor (dB) .

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

Adapter: CYSE65-240250

Horizontal

Test Graph



Suspected List

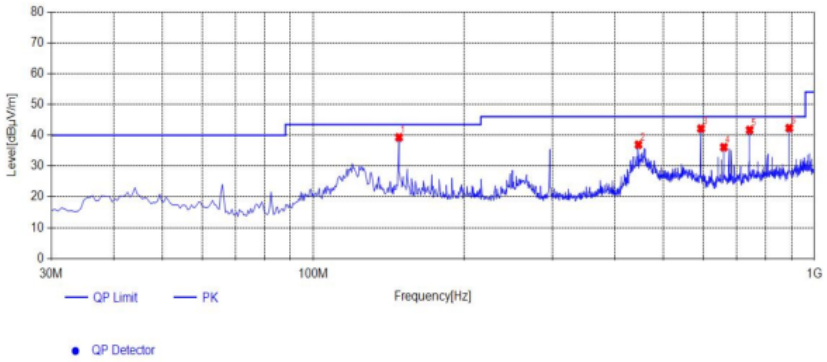
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Remark
1	250.19	45.84	-8.70	37.14	46.00	8.86	100	91	PK	Horizonta	PASS
2	296.75	50.27	-7.56	42.71	46.00	3.29	100	244	PK	Horizonta	PASS
3	445.645	46.15	-3.91	42.24	46.00	3.76	100	164	PK	Horizonta	PASS
4	594.055	42.79	-0.60	42.19	46.00	3.81	100	1	PK	Horizonta	PASS
5	742.465	37.00	1.13	38.13	46.00	7.87	100	52	PK	Horizonta	PASS
6	891.36	40.98	1.98	42.96	46.00	3.04	100	88	PK	Horizonta	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	148.34	53.52	-14.22	39.30	43.50	4.20	100	321	PK	Vertical	PASS
2	445.645	40.84	-3.91	36.93	46.00	9.07	100	109	PK	Vertical	PASS
3	594.055	42.76	-0.60	42.16	46.00	3.84	100	119	PK	Vertical	PASS
4	660.015	35.83	0.28	36.11	46.00	9.89	100	96	PK	Vertical	PASS
5	742.95	40.56	1.13	41.69	46.00	4.31	100	314	PK	Vertical	PASS
6	891.36	40.34	1.98	42.32	46.00	3.68	100	291	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 two 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	51.12	32.44	30.25	7.95	61.26	74.00	-12.74	Peak	Horizontal
4824.00	35.39	32.44	30.25	7.95	45.53	54.00	-8.47	Average	Horizontal
4824.00	49.60	31.60	36.50	7.00	51.70	74.00	-22.30	Peak	Vertical
4824.00	36.52	31.60	36.50	7.00	38.62	54.00	-15.38	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	49.28	32.52	30.31	8.12	59.61	74.00	-14.39	Peak	Horizontal
4874.00	36.65	32.52	30.31	8.12	46.98	54.00	-7.02	Average	Horizontal
4874.00	50.15	31.02	36.50	7.60	52.27	74.00	-21.73	Peak	Vertical
4874.00	35.08	31.02	36.50	7.60	37.20	54.00	-16.80	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	50.87	32.68	30.27	7.88	61.16	74.00	-12.84	Peak	Horizontal
4924.00	35.02	32.68	30.27	7.88	45.31	54.00	-8.69	Average	Horizontal
4924.00	52.35	31.58	36.20	7.82	55.55	74.00	-18.45	Peak	Vertical
4924.00	37.33	31.58	36.20	7.82	40.53	54.00	-13.47	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version A_Adapter: ADS-65HI-19A-124060F_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	51.07	32.44	30.25	7.95	61.21	74.00	-12.79	Peak	Horizontal
4824.00	35.92	32.44	30.25	7.95	46.06	54.00	-7.94	Average	Horizontal
4824.00	49.39	31.60	36.50	7.00	51.49	74.00	-22.51	Peak	Vertical
4824.00	36.01	31.60	36.50	7.00	38.11	54.00	-15.89	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	49.92	32.52	30.31	8.12	60.25	74.00	-13.75	Peak	Horizontal
4874.00	37.45	32.52	30.31	8.12	47.78	54.00	-6.22	Average	Horizontal
4874.00	49.63	31.02	36.50	7.60	51.75	74.00	-22.25	Peak	Vertical
4874.00	36.08	31.02	36.50	7.60	38.20	54.00	-15.80	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	51.03	32.68	30.27	7.88	61.32	74.00	-12.68	Peak	Horizontal
4924.00	35.91	32.68	30.27	7.88	46.20	54.00	-7.80	Average	Horizontal
4924.00	51.32	31.58	36.20	7.82	54.52	74.00	-19.48	Peak	Vertical
4924.00	37.36	31.58	36.20	7.82	40.56	54.00	-13.44	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version B_Adapter: ADS-65HI-19A-124060F_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	49.64	32.44	30.25	7.95	59.78	74.00	-14.22	Peak	Horizontal
4824.00	36.70	32.44	30.25	7.95	46.84	54.00	-7.16	Average	Horizontal
4824.00	49.38	31.60	36.50	7.00	51.48	74.00	-22.52	Peak	Vertical
4824.00	36.30	31.60	36.50	7.00	38.40	54.00	-15.60	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	50.86	32.52	30.31	8.12	61.19	74.00	-12.81	Peak	Horizontal
4874.00	36.77	32.52	30.31	8.12	47.10	54.00	-6.90	Average	Horizontal
4874.00	50.99	31.02	36.50	7.60	53.11	74.00	-20.89	Peak	Vertical
4874.00	36.49	31.02	36.50	7.60	38.61	54.00	-15.39	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	50.55	32.68	30.27	7.88	60.84	74.00	-13.16	Peak	Horizontal
4924.00	35.78	32.68	30.27	7.88	46.07	54.00	-7.93	Average	Horizontal
4924.00	51.66	31.58	36.20	7.82	54.86	74.00	-19.14	Peak	Vertical
4924.00	37.57	31.58	36.20	7.82	40.77	54.00	-13.23	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version C_Adapter: ADS-65HI-19A-124060F_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	50.39	32.44	30.25	7.95	60.53	74.00	-13.47	Peak	Horizontal
4824.00	36.26	32.44	30.25	7.95	46.40	54.00	-7.60	Average	Horizontal
4824.00	49.55	31.60	36.50	7.00	51.65	74.00	-22.35	Peak	Vertical
4824.00	36.17	31.60	36.50	7.00	38.27	54.00	-15.73	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	49.31	32.52	30.31	8.12	59.64	74.00	-14.36	Peak	Horizontal
4874.00	36.85	32.52	30.31	8.12	47.18	54.00	-6.82	Average	Horizontal
4874.00	51.20	31.02	36.50	7.60	53.32	74.00	-20.68	Peak	Vertical
4874.00	35.95	31.02	36.50	7.60	38.07	54.00	-15.93	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	51.73	32.68	30.27	7.88	62.02	74.00	-11.98	Peak	Horizontal
4924.00	35.87	32.68	30.27	7.88	46.16	54.00	-7.84	Average	Horizontal
4924.00	52.34	31.58	36.20	7.82	55.54	74.00	-18.46	Peak	Vertical
4924.00	38.69	31.58	36.20	7.82	41.89	54.00	-12.11	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version D_Adapter: ADS-65HI-19A-124060F_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	50.77	32.44	30.25	7.95	60.91	74.00	-13.09	Peak	Horizontal
4824.00	34.93	32.44	30.25	7.95	45.07	54.00	-8.93	Average	Horizontal
4824.00	50.73	31.60	36.50	7.00	52.83	74.00	-21.17	Peak	Vertical
4824.00	35.19	31.60	36.50	7.00	37.29	54.00	-16.71	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	49.35	32.52	30.31	8.12	59.68	74.00	-14.32	Peak	Horizontal
4874.00	36.91	32.52	30.31	8.12	47.24	54.00	-6.76	Average	Horizontal
4874.00	50.03	31.02	36.50	7.60	52.15	74.00	-21.85	Peak	Vertical
4874.00	35.86	31.02	36.50	7.60	37.98	54.00	-16.02	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	51.74	32.68	30.27	7.88	62.03	74.00	-11.97	Peak	Horizontal
4924.00	35.43	32.68	30.27	7.88	45.72	54.00	-8.28	Average	Horizontal
4924.00	51.93	31.58	36.20	7.82	55.13	74.00	-18.87	Peak	Vertical
4924.00	38.63	31.58	36.20	7.82	41.83	54.00	-12.17	Average	Vertical

Note: All modes were tested and the worst mode was recorded in the report (version E_Adapter: ADS-65HI-19A-124060F_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	49.78	32.44	30.25	7.95	59.92	74.00	-14.08	Peak	Horizontal
4824.00	35.10	32.44	30.25	7.95	45.24	54.00	-8.76	Average	Horizontal
4824.00	49.91	31.60	36.50	7.00	52.01	74.00	-21.99	Peak	Vertical
4824.00	35.65	31.60	36.50	7.00	37.75	54.00	-16.25	Average	Vertical

Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4874.00	48.95	32.52	30.31	8.12	59.28	74.00	-14.72	Peak	Horizontal
4874.00	36.44	32.52	30.31	8.12	46.77	54.00	-7.23	Average	Horizontal
4874.00	50.34	31.02	36.50	7.60	52.46	74.00	-21.54	Peak	Vertical
4874.00	36.74	31.02	36.50	7.60	38.86	54.00	-15.14	Average	Vertical

Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4924.00	51.80	32.68	30.27	7.88	62.09	74.00	-11.91	Peak	Horizontal
4924.00	36.77	32.68	30.27	7.88	47.06	54.00	-6.94	Average	Horizontal
4924.00	51.71	31.58	36.20	7.82	54.91	74.00	-19.09	Peak	Vertical
4924.00	37.61	31.58	36.20	7.82	40.81	54.00	-13.19	Average	Vertical

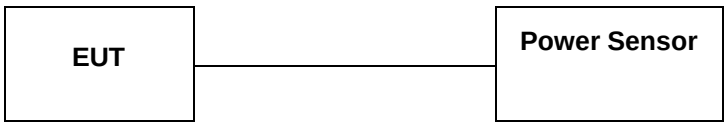
Note: All modes were tested and the worst mode was recorded in the report (version F_Adapter: ADS-65HI-19A-124060F_NFC antenna Model:DS2-52).

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.

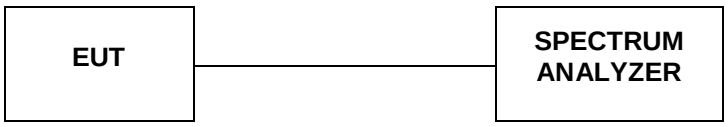
TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.3.

4.4. Power Spectral Density

TEST CONFIGURATION



TEST PROCEDURE

According to KDB 558074 D01 Method PKPSD (peak PSD) This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

LIMIT

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

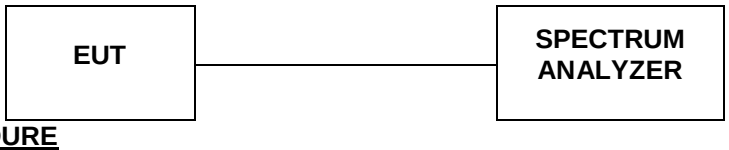
TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.4.

4.5. 99% and 6dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=100 KHz and VBW=300KHz.
The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.
According to KDI23M0258074 D01 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

LIMIT

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

TEST RESULTS

For reporting purpose only.

Please refer to Appendix C.1.

Please refer to Appendix C.2.

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

TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

According to KDB 558074 D01 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:
    $E = EIRP – 20\log D + 104.8$

where:
E = electric field strength in dBμV/m,
EIRP = equivalent isotropic radiated power in dBm
D = specified measurement distance in meters.

11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
12. Compare the resultant electric field strength level to the applicable regulatory limit.
13. Perform radiated spurious emission test dures until all measured frequencies were complete.

LIMIT

Below -20dB of the highest emission level in operating band.
Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

TEST RESULTS

4.6.1 For Conducted at Restricted Band Measurement

For reporting purpose only.

Please refer to Appendix C.7.

4.6.2 For Conducted Bandedge Measurement

For reporting purpose only.

Please refer to Appendix C.5.

4.6.3 For Conducted Spurious Emissions Measurement

For reporting purpose only.

Please refer to Appendix C.6.

4.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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 2.05dBi.

Reference to the **Internal photos**.

5. TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: **GTS20241101002-1-01.**

6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the Test Report: **GTS20241101002-1-01.**

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