

RF TEST REPORT

Report No.: SET2023-00840

Product Name: Fault Circuit Indicator

Model No.: JYZ-HW-GSM

FCC ID: 2A9ZW-JYZ-HW-GSM

Applicant: Four-Faith Smart Power Technology Co., Ltd.

Address: 11 / F, building A06, phase III, software park, Jimei District, Xiamen City

Dates of Testing: 12/21/2022 - 01/11/2023

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product: Fault Circuit Indicator

Brand Name: Four-Faith

Trade Name: Four-Faith

Applicant: Four-Faith Smart Power Technology Co., Ltd.

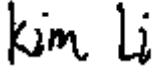
Applicant Address: 11 / F, building A06, phase III, software park, Jimei District, Xiamen City

Manufacturer: Four-Faith Electronic Technology Co., Ltd.

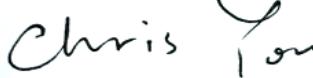
Manufacturer Address: Fifth Floor, No. 11-8, Butang Middle Road, Xiamen Torch High-tech Zone (Tongxiang) Industrial Base

Test Standards: 47 CFR Part 2/22/24/27

Test Result: Pass

Tested by:  2023.01.13

Kim Li, Test Engineer

Reviewed by:  2023.01.13

Chris You, Senior Engineer

Approved by:  2023.01.13

Hou Tao, Manager

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Change History		
Issue	Date	Reason for change
1.0	2023.01.13	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Fault Circuit Indicator	
Model No.	JYZ-HW-GSM	
Hardware Version	MB-JYZ-HW-GSM V1.0	
Software Version	JYZ_GSM-D_232_FF85900000052250_v0.0.6_20220701.bin	
EUT supports Radios application	GPRS/EDGE/WCDMA/HSPA	
Multi Slot Class	GPRS: Multi slot Class 33, EDGE: Multi slot Class 33	
Frequency Range	GSM 850:	Tx: 824.2 - 848.8MHz (at intervals of 200kHz); Rx: 869.2 - 893.8MHz (at intervals of 200kHz)
	PCS 1900:	Tx: 1850.2 - 1909.8MHz (at intervals of 200kHz); Rx: 1930.2 - 1989.8MHz (at intervals of 200kHz)
	WCDMA 850:	Tx: 826.4 - 846.6MHz (at intervals of 200kHz); Rx: 871.4 - 891.6MHz (at intervals of 200kHz)
	WCDMA 1900:	Tx: 1852.4 - 1907.6MHz (at intervals of 200kHz); Rx: 1932.4 - 1987.6MHz (at intervals of 200kHz)
Maximum Output Power to Antenna	GPRS: 850: 34.1dBm, EDGE 850: 33.8dBm GPRS: 1900: 31.1dBm, EDGE 1900: 30.9dBm WCDMA 850: 23.68dBm WCDMA 1900: 22.72dBm	
Type of Modulation	GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK(Uplink) HSDPA: QPSK(Uplink) HSUPA: QPSK(Uplink)	
Antenna Type	Internal Antenna	
Antenna gain	GSM 850: -0.74 dBi PCS 1900: -1.01 dBi WCDMA 850: -0.74 dBi WCDMA 1900: -1.01 dBi	
Power supply	DC 3.2V from battery	

Note: The report data quoted the conduction data of module FCC ID: 2AJYU-8PY A001, and retested the radiation emission spurious, and updated the ERP/EIRP data.

1.2. Maximum ERP/EIRP and Emission Designator

System	Type of Modulation	Emission Designator	Maximum ERP/EIRP(W)
GSM 850	GMSK	240KGXW	1.321
PCS 1900	GMSK	240KGXW	1.021
EDGE 850	GMSK	240KG7W	1.233
EDGE 1900	GMSK	240KG7W	0.975
WCDMA 850 RMC 12.2Kbps	QPSK	4M13F9W	0.120
WCDMA 1900 RMC 12.2Kbps	QPSK	4M13F9W	0.148

1.3. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	KDB 971168 D01 Power Meas License Digital Systems v03r01	Measurement Guidance For Certification of Licensed Digital Transmitters
6	KDB 412172 D01 Determining ERP and EIRP v01r01	Guidelines for Determining the Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) of an RF Transmitting Systems
7	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
8	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Result
1	2.1046	Conducted Output Power	PASS Remark 2
2	22.913(a)(5)	Effective Radiated Power (GSM850/W850)	PASS Remark 2
	24.232 (c)	Equivalent Isotropic Radiated Power (PCS1900/W1900)	PASS Remark 2
3	22.913(d) 24.232(d) 27.50(d)(5)	Peak to Average Radio	PASS Remark 2
4	2.1049	Occupied Bandwidth	PASS Remark 2
5	2.1055 22.355 24.235 27.54	Frequency Stability	PASS Remark 2
6	2.1051 22.917 24.238 27.53	Conducted Spurious Emission and Conducted Band Edge	PASS Remark 2
7	2.1053 22.917 24.238 27.53	Radiated Spurious Emissions	PASS

Remark:

1. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B and ICES-003 Issue 7 October 2020, recorded in a separate test report.
2. Test data refer to the chip report FCC ID: 2AJYU-8PY A001.

1.4. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.5. Test Environment Conditions

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

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR Part 2 Requirements

2.1. Conducted Output Power and ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

The EIRP of mobile transmitters must not exceed 2 Watts for PCS1900 and W1900.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and W850

The EIRP of mobile transmitters must not exceed 11.5 Watts for GSM850 and W850

According to KDB 412172 D01 Determining ERP and EIRP v01r01.

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm;

G_T = gain of the transmitting antenna in dBi;

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB.

2.1.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3. Test Setup



2.1.4. Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

2.1.5. Test Results of Conducted Output Power and ERP/EIRP

GSM 850							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
		128	190	251			
		824.2MHz	836.6MHz	848.8MHz			
GPRS	Slot 1	34.1	33.7	33.8	31.21	38.45	
	Slot 2	32.7	32.8	32.7			
	Slot 3	30.7	30.8	30.7			
	Slot 4	29.5	29.5	29.4			
EGPRS	Slot 1	33.7	33.7	33.8	-0.74	30.91	
	Slot 2	32.5	32.6	32.6			
	Slot 3	30.7	30.6	30.5			
	Slot 4	29.4	29.5	29.4			
EGPRS	Slot 1	30.7	30.7	30.6	27.81		
	Slot 2	29.9	30.0	30.0			
	Slot 3	27.3	27.3	27.2			
	Slot 4	26.2	26.0	26.1			

PCS 1900							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
		512	661	810			
		1850.2MHz	1880.0MHz	1909.8MHz			
GPRS	Slot 1	31.1	29.8	29.9	30.09	33.00	
	Slot 2	30.0	29.7	29.8			
	Slot 3	27.7	27.6	27.7			
	Slot 4	27.0	26.5	26.9			
EGPRS	Slot 1	30.9	30.8	30.9	-1.01	29.89	
	Slot 2	30.0	29.9	29.9			
	Slot 3	27.6	27.7	27.7			
	Slot 4	26.9	26.6	26.8			
EGPRS	Slot 1	29.6	29.5	29.6	28.59		
	Slot 2	28.9	28.8	28.7			
	Slot 3	26.7	26.9	26.7			
	Slot 4	25.8	25.7	25.7			

WCDMA 850							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
		4132	4183	4233			
		826.4MHz	836.6MHz	846.6MHz			
RMC	12.2 kbps	23.49	23.68	23.53			
HSDPA	Subtest 1	22.56	22.66	22.71	-0.74	20.79	38.45
	Subtest 2	22.57	22.63	22.77			
	Subtest 3	22.72	22.68	22.54			
	Subtest 4	22.63	22.65	22.75			
HSUPA (QPSK)	Subtest 1	22.56	22.66	22.71			
	Subtest 2	22.67	22.77	22.93			
	Subtest 3	22.76	22.66	22.81			
	Subtest 4	22.89	22.75	22.90			
	Subtest 5	22.79	22.85	22.68			
HSUPA (16QAM)	Subtest 1	22.56	22.66	22.71			
	Subtest 2	22.67	22.77	22.93			
	Subtest 3	22.76	22.66	22.81			
	Subtest 4	22.89	22.75	22.90			
	Subtest 5	22.79	22.85	22.68			

WCDMA 1900							
EUT Mode		Average power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
		9262	9400	9538			
		1852.4MHz	1880.0MHz	1907.6MHz			
RMC	12.2 kbps	22.55	22.72	22.71			
HSDPA	Subtest 1	21.71	21.76	21.76	-1.01	21.71	33.00
	Subtest 2	21.67	21.77	21.82			
	Subtest 3	21.73	21.97	21.65			
	Subtest 4	21.58	21.78	21.84			
HSUPA (QPSK)	Subtest 1	21.71	21.76	21.76			
	Subtest 2	21.55	21.42	21.70			
	Subtest 3	21.69	21.62	21.57			
	Subtest 4	21.54	21.61	21.77			
	Subtest 5	21.66	21.67	21.78			
HSUPA (16QAM)	Subtest 1	21.57	21.75	21.74			
	Subtest 2	21.52	21.63	21.57			
	Subtest 3	21.63	21.55	21.49			
	Subtest 4	21.51	21.67	21.69			
	Subtest 5	21.55	21.60	21.75			

Note: The conducted output power data reference module FCC ID: 2AJYU-8PY A001 reports the test data and only updates the ERP/EIRP data.

2.2. Radiated Spurious Emission

2.2.1. Requirement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E-2016.

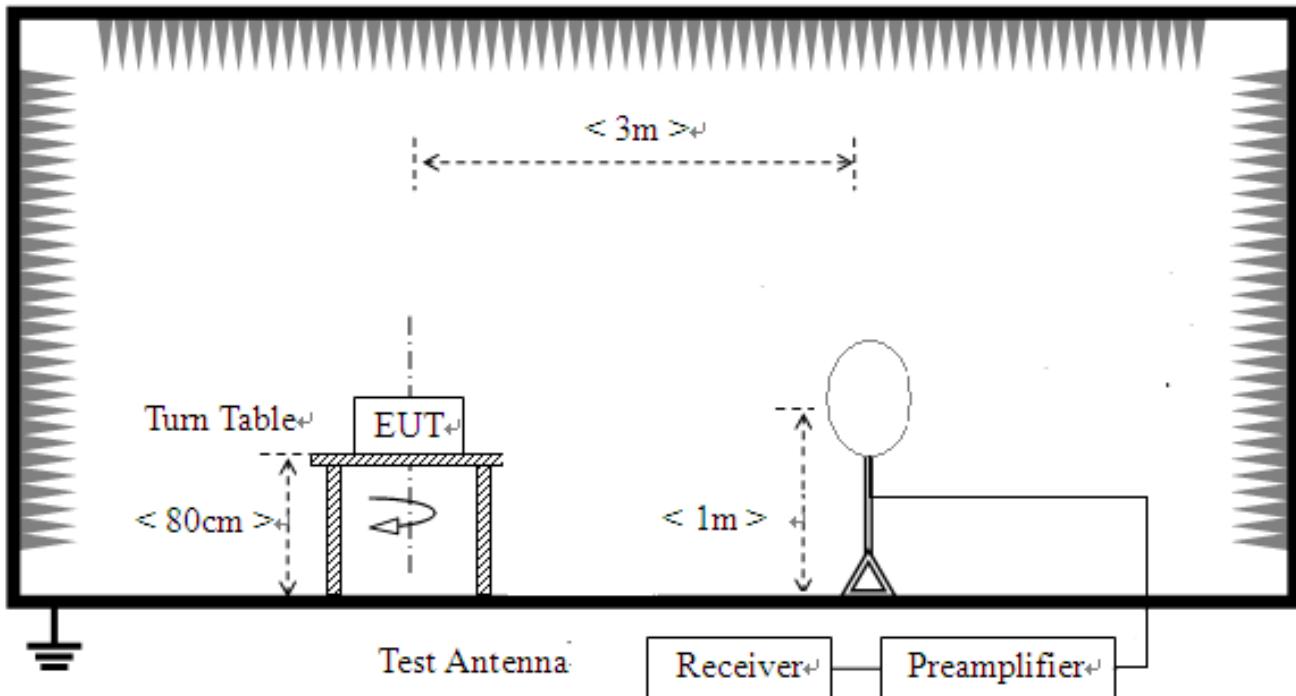
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

2.2.2. Measuring Instruments

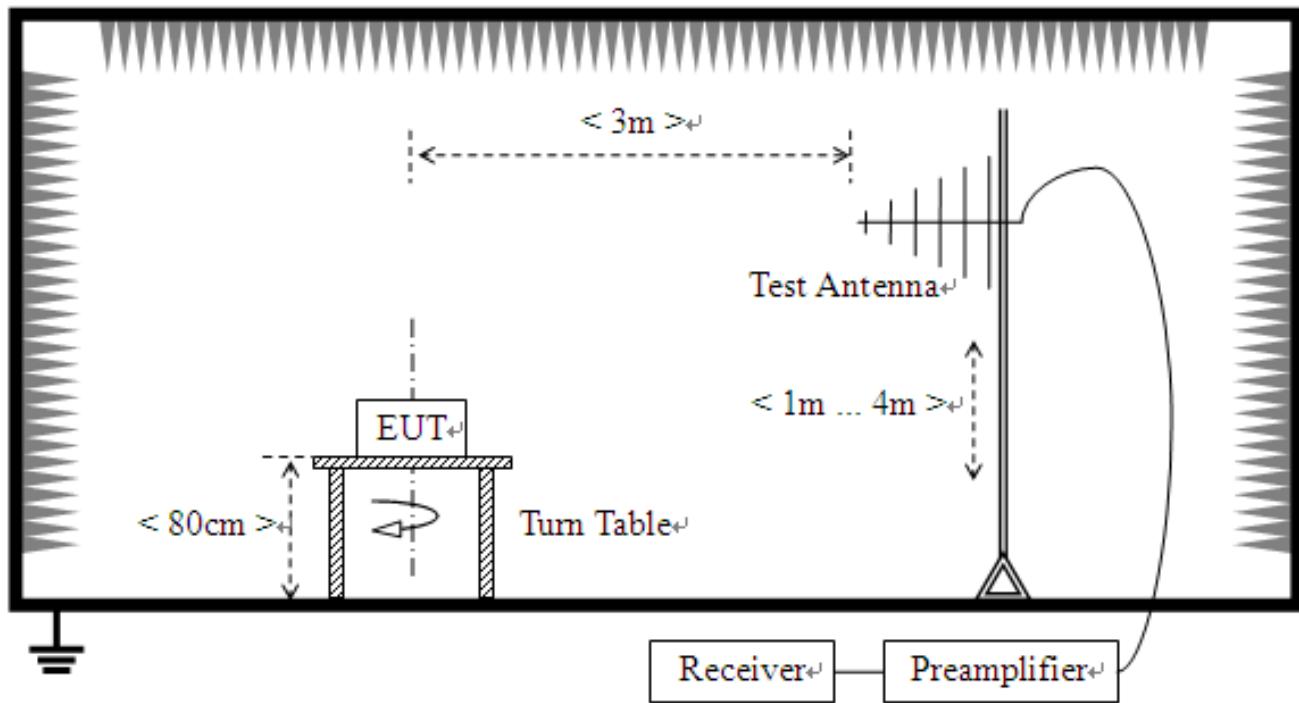
The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup

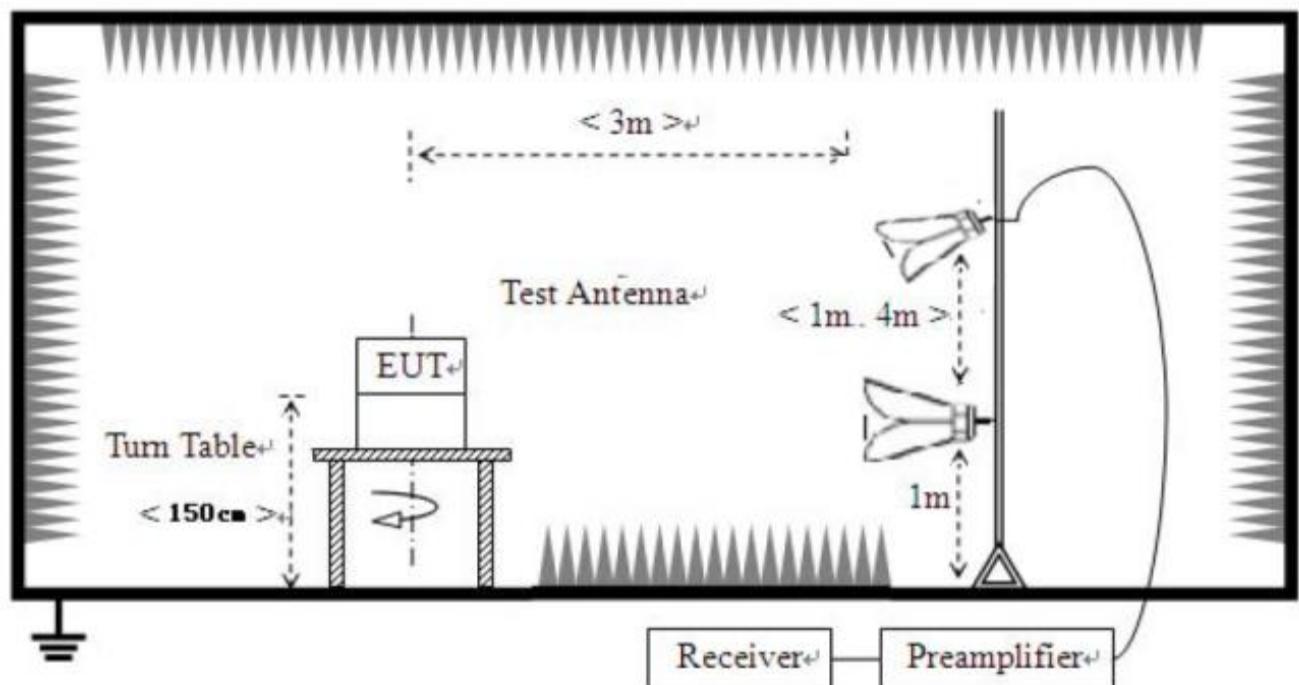
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.2.4. Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter (for below 1GHz) / 1.5 meters (for above 1GHz) above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. This device employs GMSK and 8PSK technology with GSM, GPRS and EGPRS capabilities. All configurations were investigated and the worst case emissions were found in GSM mode.
12. This device employs UMTS technology with WCDMA (AMR/RMC), HSDPA, HSUPA capabilities. All configurations were investigated and the worst case UMTS emissions were found in RMC WCDMA mode at 12.2Kbps.
13. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
13. The spectrum is measured from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.

2.2.5. Test Result of Radiated Spurious Emission

Note: 1. The emission levels of above 18GHz are lower than the limit 20dB and not show in test report.

Note: 2. Absolute Level = Reading Level + Factor.

Note: 3. Worst-Case test data provide as below.

30MHz~10GHz: GSM 850 Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.095	-92.91	-72.07	-13.00	59.07	20.84	Horizontal
2	170.165	-94.54	-72.51	-13.00	59.51	22.03	Horizontal
3	526.64	-97.25	-65.08	-13.00	52.08	32.17	Horizontal
4	2220.4	-53.31	-50.93	-13.00	37.93	2.38	Horizontal
5	3268.4	-51.50	-44.39	-13.00	31.39	7.11	Horizontal
6	7578.16	-54.43	-35.35	-13.00	22.35	19.08	Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.485	-91.06	-69.59	-13.00	56.59	21.47	Vertical
2	68.8	-95.35	-74.27	-13.00	61.27	21.08	Vertical
3	108.085	-94.52	-70.83	-13.00	57.83	23.69	Vertical
4	3594.8	-52.69	-45.36	-13.00	32.36	7.33	Vertical
5	4795.4	-53.79	-39.12	-13.00	26.12	14.67	Vertical
6	8571.76	-53.43	-35.26	-13.00	22.26	18.17	Vertical

30MHz~20GHz: PCS 1900 Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.485	-91.37	-67.49	-13.00	54.49	23.88	Horizontal
2	173.56	-94.96	-72.75	-13.00	59.75	22.21	Horizontal
3	511.605	-99.40	-66.86	-13.00	53.86	32.54	Horizontal
4	3028.2	-52.35	-45.03	-13.00	32.03	7.32	Horizontal
5	5054.6	-54.14	-39.72	-13.00	26.72	14.42	Horizontal
6	7582.76	-53.93	-34.86	-13.00	21.86	19.07	Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.485	-92.08	-70.61	-13.00	57.61	21.47	Vertical
2	74.135	-87.41	-65.84	-13.00	52.84	21.57	Vertical
3	262.8	-98.00	-73.28	-13.00	60.28	24.72	Vertical
4	3275	-52.24	-45.16	-13.00	32.16	7.08	Vertical
5	4891.6	-52.87	-38.12	-13.00	25.12	14.75	Vertical
6	7695.46	-53.48	-34.83	-13.00	21.83	18.65	Vertical

30MHz~10GHz: WCDMA 850 Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	120.21	-96.53	-76.56	-13.00	63.56	19.97	Horizontal
2	499.48	-98.99	-66.38	-13.00	53.38	32.61	Horizontal
3	2334	-54.35	-48.58	-13.00	35.58	5.77	Horizontal
4	5312	-58.05	-44.20	-13.00	31.20	13.85	Horizontal
5	7842.37	-59.73	-40.37	-13.00	27.37	19.36	Horizontal
6	10573.6	-59.11	-36.50	-13.00	23.50	22.61	Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.94	-93.35	-72.08	-13.00	59.08	21.27	Vertical
2	69.77	-94.96	-73.77	-13.00	60.77	21.19	Vertical
3	105.66	-96.76	-72.84	-13.00	59.84	23.92	Vertical
4	2673	-56.47	-48.71	-13.00	35.71	7.76	Vertical
5	4906	-58.16	-43.44	-13.00	30.44	14.72	Vertical
6	10130.8	-59.16	-37.19	-13.00	24.19	21.97	Vertical

30MHz~20GHz: WCDMA 1900 Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	31.94	-96.87	-73.34	-13.00	60.34	23.53	Horizontal
2	41.64	-94.30	-73.11	-13.00	60.11	21.19	Horizontal
3	118.27	-94.75	-74.86	-13.00	61.86	19.89	Horizontal
4	5298	-57.88	-44.02	-13.00	31.02	13.86	Horizontal
5	8325.37	-58.25	-39.79	-13.00	26.79	18.46	Horizontal
6	9530	-57.83	-37.41	-13.00	24.41	20.42	Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	65.89	-95.40	-74.67	-13.00	61.67	20.73	Vertical
2	85.29	-96.45	-73.72	-13.00	60.72	22.73	Vertical
3	115.36	-97.05	-74.01	-13.00	61.01	23.04	Vertical
4	4802	-58.04	-43.31	-13.00	30.31	14.73	Vertical
5	7517.5	-60.37	-40.71	-13.00	27.71	19.66	Vertical
6	10835.2	-59.27	-36.44	-13.00	23.44	22.83	Vertical

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2022.07.21	2023.07.20
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
5	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2022.12.13	2023.12.12
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
10	Test Receiver	R&S	ESIB7	A0501375	2022.04.18	2023.04.17
11	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
13	Temperature chamber	TABAI	PS-232	A8708054	2022.08.18	2023.08.17
14	Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25
15	Wideband Radio Communication tester	R&S	CMW500	A150802214	2022.06.17	2023.06.16
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2022.07.21	2023.07.20
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2022.07.21	2023.07.20
18	Cable	MATCHING PAD	W7	/	2022.07.21	2023.07.20

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95% $(U=2U_{c(y)})$	1.2dB
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** END OF REPORT **