FCC Test Report

APPLICANT : Telrad Networks Ltd

EQUIPMENT: CPE12350

BRAND NAME : Telrad MODEL NAME : 775300

FCC ID : ARA-CPE12350

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 25, 2020 and testing was completed on Aug. 17, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International (Kunshan) Inc.

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Report Version : Rev. 01

ACCREDITED
Cert #5145.02

Report Template No.: BU5-FC15B Version 3.0

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Report No.: FC052507

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC052507	Rev. 01	Initial issue of report	Feb. 03, 2021

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	17.19 dB at
					18.920 MHz
	15.109 Radiated Emission < 15.109 limits				Under limit
2.0		45 400 limita	D400	7.77 dB at	
3.2		15.109 Radiated Emission	< 15.109 limits	PASS	56.19 MHz
					for Quasi-Peak

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1. General Description

1.1. Applicant

Telrad Networks Ltd

Industrial Center PO Box 6118 Lod, 711600 Israel

1.2. Manufacturer

AsiateIco

No.68 Huatuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai, PRC

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	CPE12350
Brand Name	Telrad
Model Name	775300
FCC ID	ARA-CPE12350
EUT supports Radios application	LTE
IMEI Code	Conduction: NA
I IWEI Code	Radiation: NA
HW Version	P2
SW Version	KT2A_OTE7863_TRD_US_1.0.0.9
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
	LTE Band 42 : 3552.5 MHz ~ 3597.5 MHz				
Tx Frequency	LTE Band 43 : 3602.5 MHz ~ 3697.5 MHz LTE Band 46: 5157.5 MHz ~ 5247.5 MHz;				
	5727.5 MHz ~ 5847.5 MHz				
	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz				
	LTE Band 42 : 3552.5 MHz ~ 3597.5 MHz				
	LTE Band 43 : 3602.5 MHz ~ 3697.5 MHz				
Rx Frequency	LTE Band 46: 5157.5 MHz ~ 5247.5 MHz;				
	5727.5 MHz ~ 5847.5 MHz				
	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz				
Antenna Type	WWAN : Fixed Internal Antenna				
Type of Modulation	LTE: QPSK / 16QAM / 64QAM / 256QAM (Downlink Only)				

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Test Firm	Sporton International (Ku	Sporton International (Kunshan) Inc.						
	No. 1098, Pengxi North F	Road, Kunshan Economic	Development Zone					
Test Site Location	Jiangsu Province 215300 People's Republic of China							
Test Site Location	TEL: +86-512-57900158							
	FAX: +86-512-57900958							
	0 1 0 N	500 D : 4: N	FCC Test Firm					
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.					
	CO01-KS 03CH02-KS	CN1257	314309					

1.7. Test Software

Iten	Item Site		Manufacture	Name	Version
1.		03CH02-KS	AUDIX	E3	6.2009-8-24a
2.		CO01-KS	AUDIX	E3	6.2009-8-24

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
7 to Conducted	Mode 1: LTE Band 48 Rx(Middle) + POE Charge + POE Data port Lan Link
Emission	Mode 2: LTE Band 46 Rx(High) + POE Charge + POE Data port Lan Link
radiated	Mode 1: LTE Band 48 Rx(Middle) + POE Charge + POE Data port Lan Link
Emissions	Mode 2: LTE Band 46 Rx(High) + POE Charge + POE Data port Lan Link

Remark:

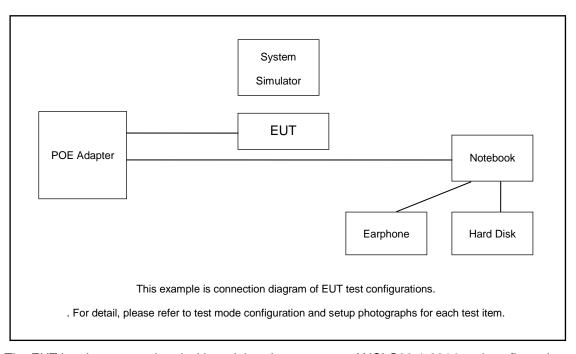
- 1. The worst case of AC is mode 1; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.
- **3.** Pre-scanned Low/Middle/High channel for LTE Band 46/48, the worst channel was recorded in this report.

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2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	V130-141K B001	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	Hard disk	KINGSHARE	KSP6120G	Fcc DoC	Shielded, 1.2m	N/A
3.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
4.	Hard Disk	Lenovo	F310	DoC	Shielded, 1.2m	N/A
5.	Earphone	Lenovo	P121	N/A	N/A	Unshielded,1.2m

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing.

At the same time, the EUT was attached to the POE Adapter and LAN link with Notebook.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission	Conducted limit (dBuV)				
(MHz)	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.

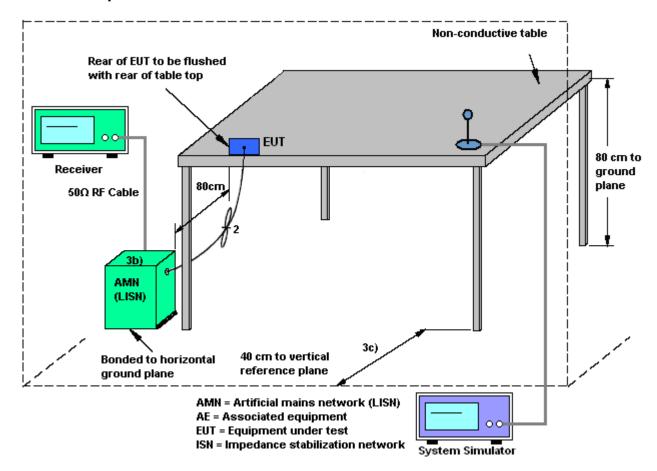
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

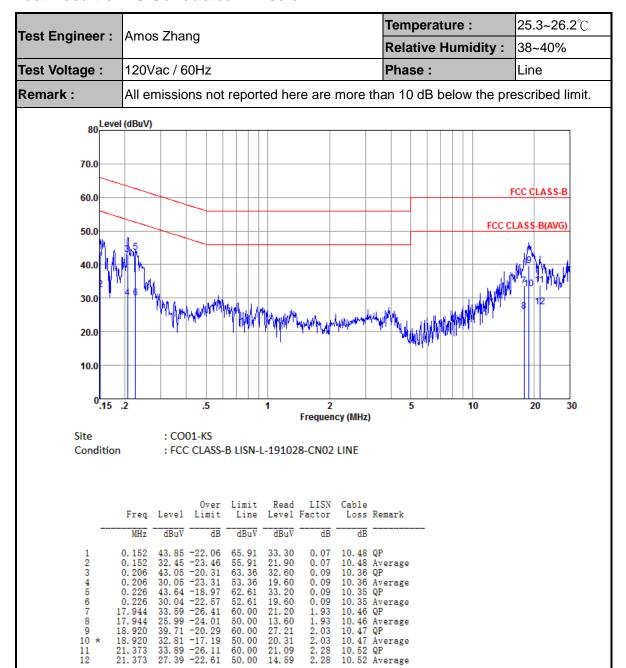
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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Temperature: 25.3~26.2°C Test Engineer: Amos Zhang **Relative Humidity:** 38~40% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 70.0 FCC CLASS-B 60.0 50.0 40.0 30.0 20.0 10.0 Frequency (MHz) Site : CO01-KS Condition : FCC CLASS-B LISN-N-191028-CN02 NEUTRAL 0ver Limit Read LISN Cable Level Factor Loss Remark Level Limit Line MHz dB dBuV dBuV 35. 67 -28. 83 21. 17 -33. 33 40. 43 -22. 67 25. 03 -28. 07 36. 72 -25. 50 24. 02 -28. 20 39. 31 -20. 69 32. 71 -17. 29 36. 28 -23. 72 29. 58 -20. 42 28. 60 -31. 40 19. 90 -30. 10 10.41 QP 10.41 Average 10.36 QP 10.36 Average 0. 16 0. 16 0. 17 0. 17 0. 18 0. 18 2. 64 2. 64 2. 87 2. 87 3. 08 3. 08 234567 54. 50 0.180 0. 213 0. 213 63. 10 53. 10 29. 90 14. 50 26. 20 13. 50 26. 19 62. 22 52. 22 60. 00 10.34 Average 10.48 QP 0.237 19.021 19. 021 20. 814 50.00 60.00 19. 59 22. 90 10.48 Average 10.51 QP 16. 20 14. 90 6. 20 10 50.00 Average 11 12 29. 527 29. 527 60.00 50.00 10.62 QP

Note:

- 1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

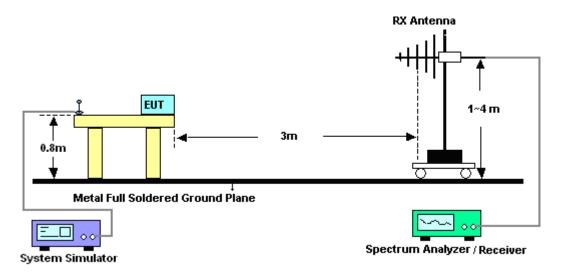
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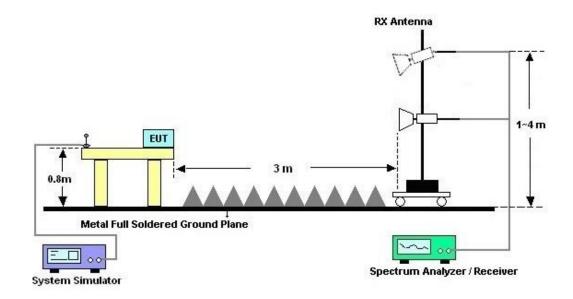
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

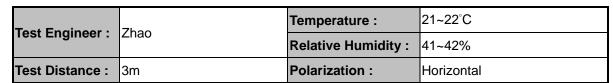


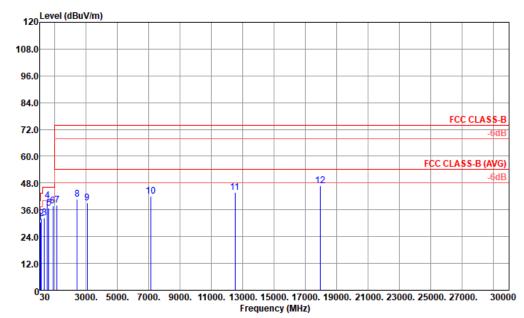
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3.2.5. Test Result of Radiated Emission





Site : 03CH02-KS

Condition : FCC CLASS-B 3m LF 6111D SN44483 HORIZONTAL

			0ver			Antenna			A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	58.13	30.46	-9.54	40.00	49.50	12.40	1.72	33.16			Peak
2	143.49	32.16	-11.34	43.50	45.30	17.35	2.70	33.19			Peak
3	332.64	32.51	-13.49	46.00	41.57	19.97	4.11	33.14			Peak
4	524.70	40.08	-5.92	46.00	43.03	24.69	5.16	32.80	100	0	Peak
5	624.61	36.65	-9.35	46.00	37.14	26.14	5.62	32.25			Peak
6	874.87	37.84	-8.16	46.00	34.15	29.20	6.64	32.15			Peak
7	1126.00	38.18	-35.82	74.00	62.22	29.29	6.32	59.65			Peak
8	2414.00	40.63	-33.37	74.00	57.92	33.31	9.36	59.96			Peak
9	3078.00	39.20	-34.80	74.00	54.95	33.51	10.53	59.79			Peak
10	7110.00	42.10	-31.90	74.00	48.83	37.41	16.33	60.47			Peak
11	12510.00	43.67	-30.33	74.00	40.73	40.31	22.72	60.09			Peak
12	17955.00	46.64	-27.36	74.00	33.08	43.23	27.37	57.04			Peak

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21~22°C Temperature: Test Engineer: Zhao **Relative Humidity:** 41~42% Polarization: Test Distance: 3m Vertical 120 Level (dBuV/m) 108.0 96.0 84.0 FCC CLASS-B 72.0 60.0 FCC CLASS-B (AVG) 48.0 36.0 24.0 12.0 0<mark>30</mark> 3000. 5000. 7000. 9000. 11000. 13000. 15000. 17000. 19000. 21000. 23000. 25000. 27000. 30000 Frequency (MHz) Site : 03CH02-KS Condition : FCC CLASS-B 3m LF 6111D SN44483 VERTICAL Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Freq Level Limit Line Level Factor Loss Factor MHz dBuV/m dB dBuV/m dBuV dB/m deg cm 56.19 32.23 -7.77 40.00 50.76 12.90 1.69 33.12 100 323 QP 167.74 27.61 -15.89 43.50 42.02 15.86 2.93 33.20 --- Peak

Note:

11

 Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)

39.54 19.97

38.01 24.69

31.31 29.20

28.20

30.35

37.72

40.26

35.32 12.26

32.65

64.29

57.97

51.97

49.83

42.21

74.00

74.00

17811.00 46.26 -27.74 74.00 32.93 43.31 27.23

4.11

5.16

6.15

6.64

7.90

16.59

22.39

33.14

32.80

32.30

59.88

60.09

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

332.64 30.48 -15.52 46.00

524.70 35.06 -10.94 46.00

749.74 34.70 -11.30 46.00

874.87 35.00 -11.00 46.00

1752.00 42.66 -31.34 74.00

2450.00 40.93 -33.07 74.00

7248.00 43.64 -30.36 74.00

4044.00 39.63 -34.37

12276.00 44.77 -29.23

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 14, 2020	Aug. 17, 2020	Apr. 13, 2021	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 18, 2019	Aug. 17, 2020	Oct. 17, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Oct. 28, 2019	Aug. 17, 2020	Oct. 27, 2020	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 18, 2019	Aug. 17, 2020	Oct. 17, 2020	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 18, 2019	Aug. 17, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 18, 2019	Aug. 17, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 30, 2019	Aug. 17, 2020	Dec. 29, 2020	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 10, 2019	Aug. 17, 2020	Nov. 09, 2020	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Aug. 17, 2020	Nov. 09, 2020	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Aug. 17, 2020	Jan. 03, 2021	Radiation (03CH02-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5G Hz	Oct. 18, 2019	Aug. 17, 2020	Oct. 17, 2020	Radiation (03CH02-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 08, 2020	Aug. 17, 2020	Jan. 07, 2021	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Aug. 17, 2020	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Aug. 17, 2020	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Aug. 17, 2020	NCR	Radiation (03CH02-KS)

NCR: No Calibration Required

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence	2.9 dB
of 95% (U = 2Uc(y))	2.9 UB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.9 dB
of 95% (U = 2Uc(y))	4.5 UB

<u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	E 0 4D	
of 95% (U = 2Uc(y))	5.0 dB	

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	J.1 UB

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