



FCC RADIO TEST REPORT

FCC ID : 2AVDZTC4N
Equipment : WCDMA and LTE cellular wireless module
Brand Name : LiveU
Applicant : LiveU, Inc
2 University Plaza Drive Suite 505,
Hackensack, New Jersey
Manufacturer : LiveU Ltd.
5 Hagavish St, Kfar Saba 4442211, Israel
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Jan. 15, 2022 and testing was performed from Feb. 11, 2022 to Feb. 17, 2022. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035

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History of this test report

Report No.	Version	Description	Issue Date
FG220103003A	01	Initial issue of report	May 04, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046	Conducted Output Power	Reporting Only	See Note
	§22.913 (a)(5)	Effective Radiated Power (WCDMA Band V)	-	
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	32.99 dB under the limit at 7520.000 MHz

Remark: The module (FCC ID: 2AVDZTC4N) makes no difference after verifying output power, please refer to the original module report for conducted test results.

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- Please refer to the section "Uncertainty Evaluation" for measurement uncertainty.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE

Product Feature	
Installed into the Host	Equipment Name: Live Video Transmission System Brand Name: LiveU Model Name: LU800
Sample 1	Module 1
Sample 2	Module 2
Antenna Type	Monopole PCB Printed Antenna

Remark: The EUT's information above was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sporton Site No.
	03CH01-CA
Test Engineer	Leo Liu
Temperature (°C)	18~23
Relative Humidity (%)	38~45

Note: The test site complies with ANSI C63.4 2014 requirement.

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark: All the test items were validated and recorded in accordance with the standards without any modification during the testing.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Y plane as worst plane.

Radiated emissions were investigated as following frequency range:

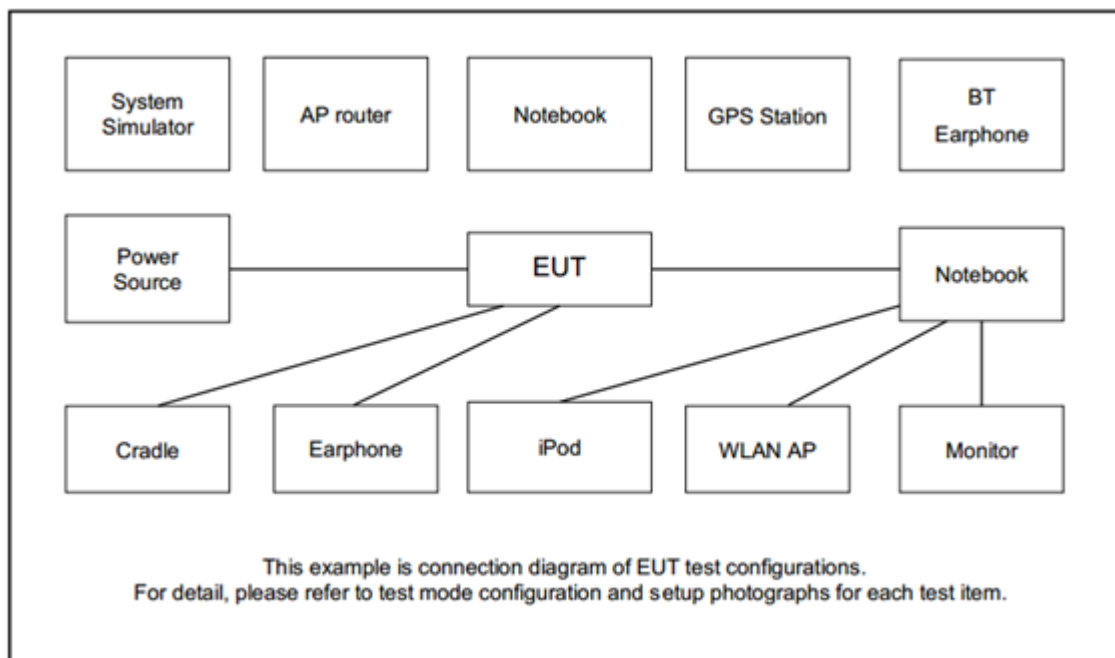
1. 30 MHz to 19100 MHz for WCDMA Band II

All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
WCDMA Band V	-	■ RMC 12.2Kbps Link ■ HSDPA Link ■ HSUPT Link
WCDMA Band II	■ RMC 12.2Kbps Link ■ HSDPA Link ■ HSUPT Link	■ RMC 12.2Kbps Link ■ HSDPA Link ■ HSUPT Link
WCDMA Band IV	-	■ RMC 12.2Kbps Link ■ HSDPA Link ■ HSUPT Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

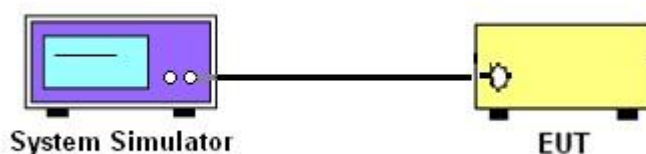
3 Conducted Test Result

3.1 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Band II	Conducted Power (dBm)		
WCDMA - Test Item	Channel/Frequency (MHz)		
	9262/1852.4	9400/1880	9538/1907.6
Max Output Power	22.27	22.31	21.95

Band II	Conducted Power (dBm)		
HSDPA - Test Item	Channel/Frequency (MHz)		
	9262/1852.4	9400/1880	9538/1907.6
Max Output Power; Beta C/D=2/15	22.05	21.95	21.97
Max Output Power; Beta C/D=11/15	22.05	22.02	21.99
Max Output Power; Beta C/D=15/8	21.57	21.55	21.53
Max Output Power; Beta C/D=15/4	21.61	21.54	21.52

Band II	Conducted Power (dBm)		
HSUPA - Test Item	Channel/Frequency (MHz)		
	9262/1852.4	9400/1880	9538/1907.6
Max Output Power; E-TFCI = 75	21.59	21.59	21.50
Max Output Power; E-TFCI = 67	21.11	20.56	21.03
Max Output Power; E-TFCI = 92	20.70	20.63	20.65
Max Output Power; E-TFCI = 71	21.23	21.27	21.01
Max Output Power	22.10	22.00	22.00

Band IV	Conducted Power (dBm)		
WCDMA - Test Item	Channel/Frequency (MHz)		
	1312/1712.4	1413/1732.6	1513/1752.6
Max Output Power	21.99	22.38	22.35

Band IV	Conducted Power (dBm)		
HSDPA - Test Item	Channel/Frequency (MHz)		
	1312/1712.4	1413/1732.6	1513/1752.6
Max Output Power; Beta C/D=2/15	22.02	22.23	22.16
Max Output Power; Beta C/D=11/15	22.00	22.20	22.13
Max Output Power; Beta C/D=15/8	21.53	21.73	21.66
Max Output Power; Beta C/D=15/4	21.51	21.71	21.73

Band IV	Conducted Power (dBm)		
HSUPA - Test Item	Channel/Frequency (MHz)		
	1312/1712.4	1413/1732.6	1513/1752.6
Max Output Power; E-TFCI = 75	21.80	21.75	21.71
Max Output Power; E-TFCI = 67	20.48	21.26	21.21
Max Output Power; E-TFCI = 92	20.55	20.97	20.75
Max Output Power; E-TFCI = 71	21.20	21.54	21.32
Max Output Power	22.00	22.30	22.30

Band V	Conducted Power (dBm)		
WCDMA - Test Item	Channel/Frequency (MHz)		
	4132/826.4	4182/836.4	4233/846.6
Max Output Power	21.90	22.15	21.89

Band V	Conducted Power (dBm)		
HSDPA - Test Item	Channel/Frequency (MHz)		
	4132/826.4	4182/836.4	4233/846.6
Max Output Power; Beta C/D=2/15	21.84	21.88	21.96
Max Output Power; Beta C/D=11/15	21.89	21.83	21.92
Max Output Power; Beta C/D=15/8	21.42	21.37	21.46
Max Output Power; Beta C/D=15/4	21.40	21.36	21.45

Band V	Conducted Power (dBm)		
HSUPA - Test Item	Channel/Frequency (MHz)		
	4132/826.4	4182/836.4	4233/846.6
Max Output Power; E-TFCI = 75	21.25	21.49	21.84
Max Output Power; E-TFCI = 67	20.64	20.83	20.52
Max Output Power; E-TFCI = 92	20.43	20.39	20.31
Max Output Power; E-TFCI = 71	20.82	20.97	20.83
Max Output Power	21.80	21.80	21.80

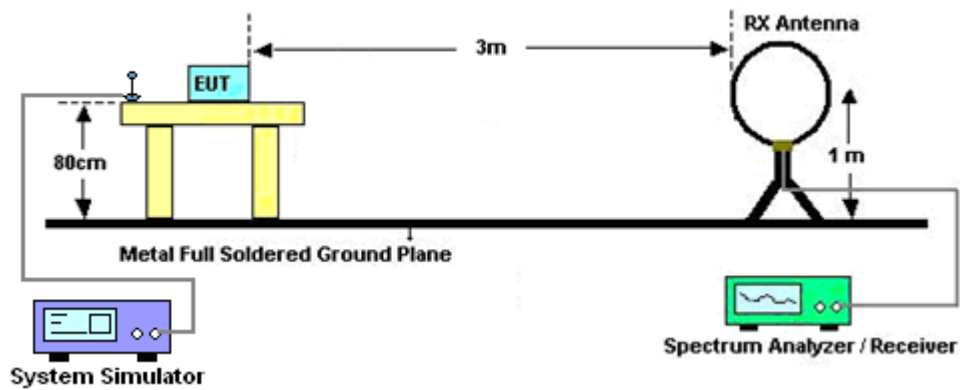
4 Radiated Test Items

4.1 Measuring Instruments

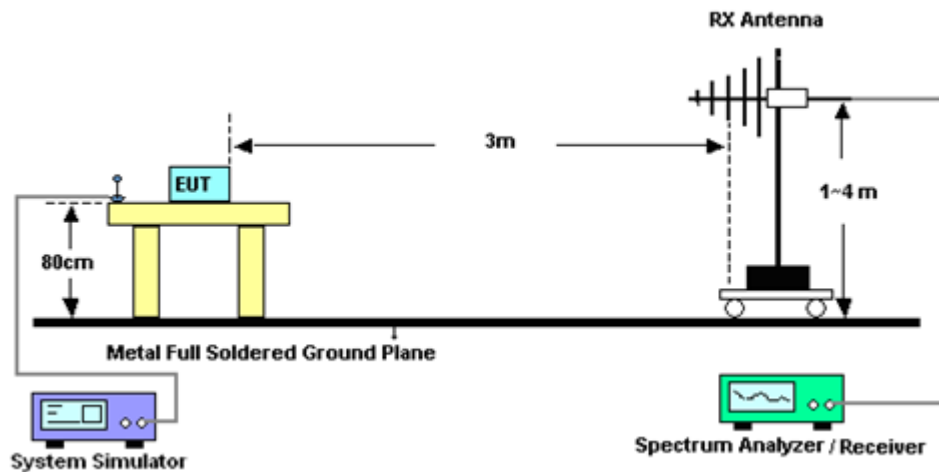
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

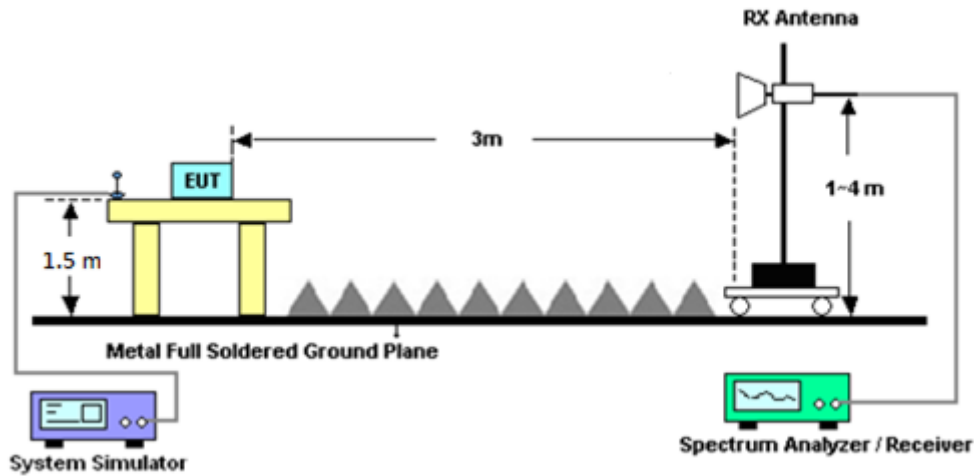
For radiated test below 30MHz



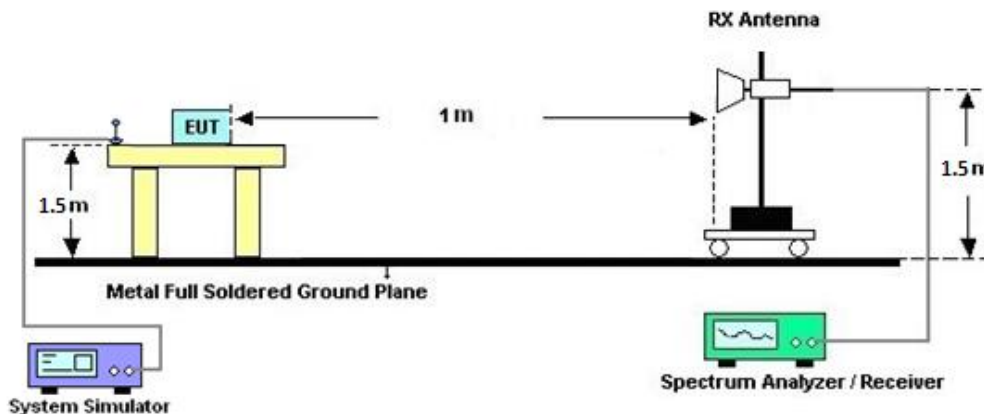
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix A.

Note:

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is 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 for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. A horn antenna is substituted in place of the EUT and is driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Take the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
13. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	Jun. 21, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jun. 20, 2022	Radiation (03CH01-CA)
Bilog Antenna	TESEQ	6111D	54683	30MHz~1GHz	Oct. 15, 2021	Feb. 11, 2022~ Feb. 17, 2022	Oct. 14, 2022	Radiation (03CH01-CA)
Bilog Antenna	TESEQ	6111D	50391	30MHz~1GHz	Aug. 10, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 09, 2022	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Sep. 30, 2021	Feb. 11, 2022~ Feb. 17, 2022	Sep. 29, 2022	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	01895	1GHz~18GHz	Aug. 25, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 24, 2022	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9170D	00842	18GHz~40GHz	Jul. 20, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 19, 2022	Radiation (03CH01-CA)
Horn Antenna	SCHWARZBECK	BBHA 9170D	00841	18GHz~40GHz	Aug. 26, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 25, 2022	Radiation (03CH01-CA)
Preamplifier	SONOMA	310N	372241	9kHz~1GHz	Jul. 13, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 12, 2022	Radiation (03CH01-CA)
Preamplifier	Keysight	83017A	MY53270321	1GHz~26.5GHz	Aug. 26, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 25, 2022	Radiation (03CH01-CA)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800 055004	1GHz~18GHz	Jul. 21, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 20, 2022	Radiation (03CH01-CA)
Preamplifier	EMEC	EMC18G40G	060725	18G-40G	Jul. 21, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 20, 2022	Radiation (03CH01-CA)
EMI Test Receiver	R&S	ESU26	100049	20Hz~26.5GHz	Jun. 01, 2021	Feb. 11, 2022~ Feb. 17, 2022	May. 31, 2022	Radiation (03CH01-CA)
Signal Generator	Rohde & Schwarz	SMF100A	105544	9kHz~44GHz	Jun. 02, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jun. 01, 2022	Radiation (03CH01-CA)
Radio Communication Analyzer	Anritsu	MT8820C	6201300652	30MHz-2.7GHz, 3.4GHz-3.8GHz	Aug. 30, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 29, 2022	Radiation (03CH01-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	8015932/2, 8015762/2, 6015772/2	N/A	Aug. 09, 2021	Feb. 11, 2022~ Feb. 17, 2022	Aug. 08, 2022	Radiation (03CH01-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2GHz Low Pass Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Filter	Wainwright	WHKX12-1080-1200-15000-60ST	SN7	1.2GHz High Pass Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN9	3GHz High Pass Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Notch Filter	Wainwright	WRCJV10-2436-2496-2690-2750-40SS	SN1	Notch Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Notch Filter	Wainwright	WRCGV10-1675-1695-1780-1800-40SS	SN1	Notch Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Notch Filter	Wainwright	WRCGV8-1835-1850-1910-1925-40SS	SN9	Notch Filter	Jul. 22, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 21, 2022	Radiation (03CH01-CA)
Hygrometer	TESTO	608-H1	45141354	N/A	Jul. 30, 2021	Feb. 11, 2022~ Feb. 17, 2022	Jul. 29, 2022	Radiation (03CH01-CA)
Controller	Chaintek	EM-1000	060881	Control Turn Table & Antenna Mast	N/A	Feb. 11, 2022~ Feb. 17, 2022	N/A	Radiation (03CH01-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 11, 2022~ Feb. 17, 2022	N/A	Radiation (03CH01-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 11, 2022~ Feb. 17, 2022	N/A	Radiation (03CH01-CA)
Test Software	Audix E3	E6.2009-8-24d	PK-002093	N/A	N/A	Feb. 11, 2022~ Feb. 17, 2022	N/A	Radiation (03CH01-CA)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.40 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.60 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.30 dB
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Appendix A. Test Results of Radiated Test

<Sample 1>

WCDMA 1900

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704.8	-56.19	-13	-43.19	-78.44	-67.61	0.77	12.19	H
	5557.2	-51.50	-13	-38.50	-78.81	-63.59	1.01	13.11	H
	7409.6	-47.82	-13	-34.82	-79.03	-57.55	1.29	11.01	H
									H
									H
									H
	3704.8	-56.42	-13	-43.42	-78.41	-67.84	0.77	12.19	V
	5557.2	-51.57	-13	-38.57	-78.78	-63.66	1.01	13.11	V
	7409.6	-47.56	-13	-34.56	-79.1	-57.29	1.29	11.01	V
									V
									V
									V
Middle	3760	-55.86	-13	-42.86	-78.33	-67.29	0.79	12.21	H
	5640	-51.34	-13	-38.34	-78.8	-63.63	0.99	13.28	H
	7520	-46.69	-13	-33.69	-78.04	-56.74	1.16	11.21	H
									H
									H
									H
	3760	-56.16	-13	-43.16	-78.28	-67.59	0.79	12.21	V
	5640	-51.39	-13	-38.39	-78.9	-63.68	0.99	13.28	V
	7520	-45.99	-13	-32.99	-77.91	-56.04	1.16	11.21	V
									V
									V
									V



Highest	3815.2	-55.78	-13	-42.78	-78.43	-67.21	0.80	12.23	H
	5722.8	-51.15	-13	-38.15	-78.82	-63.37	1.03	13.25	H
	7630.4	-46.98	-13	-33.98	-78.2	-57.30	1.23	11.55	H
									H
									H
									H
	3815.2	-56.24	-13	-43.24	-78.45	-67.67	0.80	12.23	V
	5722.8	-51.23	-13	-38.23	-78.92	-63.45	1.03	13.25	V
	7630.4	-46.47	-13	-33.47	-78.21	-56.79	1.23	11.55	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Sample 2>

WCDMA 1900

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3704.8	-56.22	-13	-43.22	-78.47	-67.64	0.77	12.19	H
	5557.2	-51.67	-13	-38.67	-78.98	-63.76	1.01	13.11	H
	7409.6	-47.88	-13	-34.88	-79.09	-57.61	1.29	11.01	H
									H
									H
									H
	3704.8	-56.65	-13	-43.65	-78.64	-68.07	0.77	12.19	V
	5557.2	-51.69	-13	-38.69	-78.9	-63.78	1.01	13.11	V
	7409.6	-47.61	-13	-34.61	-79.15	-57.34	1.29	11.01	V
									V
									V
									V
Middle	3760	-55.97	-13	-42.97	-78.44	-67.40	0.79	12.21	H
	5640	-51.43	-13	-38.43	-78.89	-63.72	0.99	13.28	H
	7520	-46.78	-13	-33.78	-78.13	-56.83	1.16	11.21	H
									H
									H
									H
	3760	-56.15	-13	-43.15	-78.27	-67.58	0.79	12.21	V
	5640	-51.47	-13	-38.47	-78.98	-63.76	0.99	13.28	V
	7520	-46.23	-13	-33.23	-78.15	-56.28	1.16	11.21	V
									V
									V
									V



Highest	3815.2	-55.86	-13	-42.86	-78.51	-67.29	0.80	12.23	H
	5722.8	-51.32	-13	-38.32	-78.99	-63.54	1.03	13.25	H
	7630.4	-47.01	-13	-34.01	-78.23	-57.33	1.23	11.55	H
									H
									H
									H
	3815.2	-56.41	-13	-43.41	-78.62	-67.84	0.80	12.23	V
	5722.8	-51.43	-13	-38.43	-79.12	-63.65	1.03	13.25	V
	7630.4	-46.63	-13	-33.63	-78.37	-56.95	1.23	11.55	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.