

TEST REPORT

Report No.: BCTC2308365526-4E

Applicant: HONGKONG UMEDIA LIMITED

Product Name: S4 smart watch

Model/Type
Reference: S4

Tested Date: 2023-08-28 to 2023-11-18

Issued Date: 2023-11-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2BC4N-S4

Product Name: S4 smart watch
Trademark: UNICO
Model/Type Reference: S4
Prepared For: HONGKONG UMEDIA LIMITED
Address: RM 223B 2/F 1W PHASE ONE HONG KONG SCIENCE PARK PAK SHEK KOK
TAI PO TOWN LOT NO.171 NT, HONGKONG
Manufacturer: HONGKONG UMEDIA LIMITED
Address: RM 223B 2/F 1W PHASE ONE HONG KONG SCIENCE PARK PAK SHEK KOK
TAI PO TOWN LOT NO.171 NT, HONGKONG
Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date: 2023-08-28
Sample Tested Date: 2023-08-28 to 2023-11-18
Issue Date: 2023-11-18
Report No.: BCTC2308365526-4E
Test Standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 27
Test Results: PASS
Remark: This is radio test report for 4G in US full bands.

Tested by:



Lei Chen/Project Handler

Approved by:



Zero Zhou/Reviewer

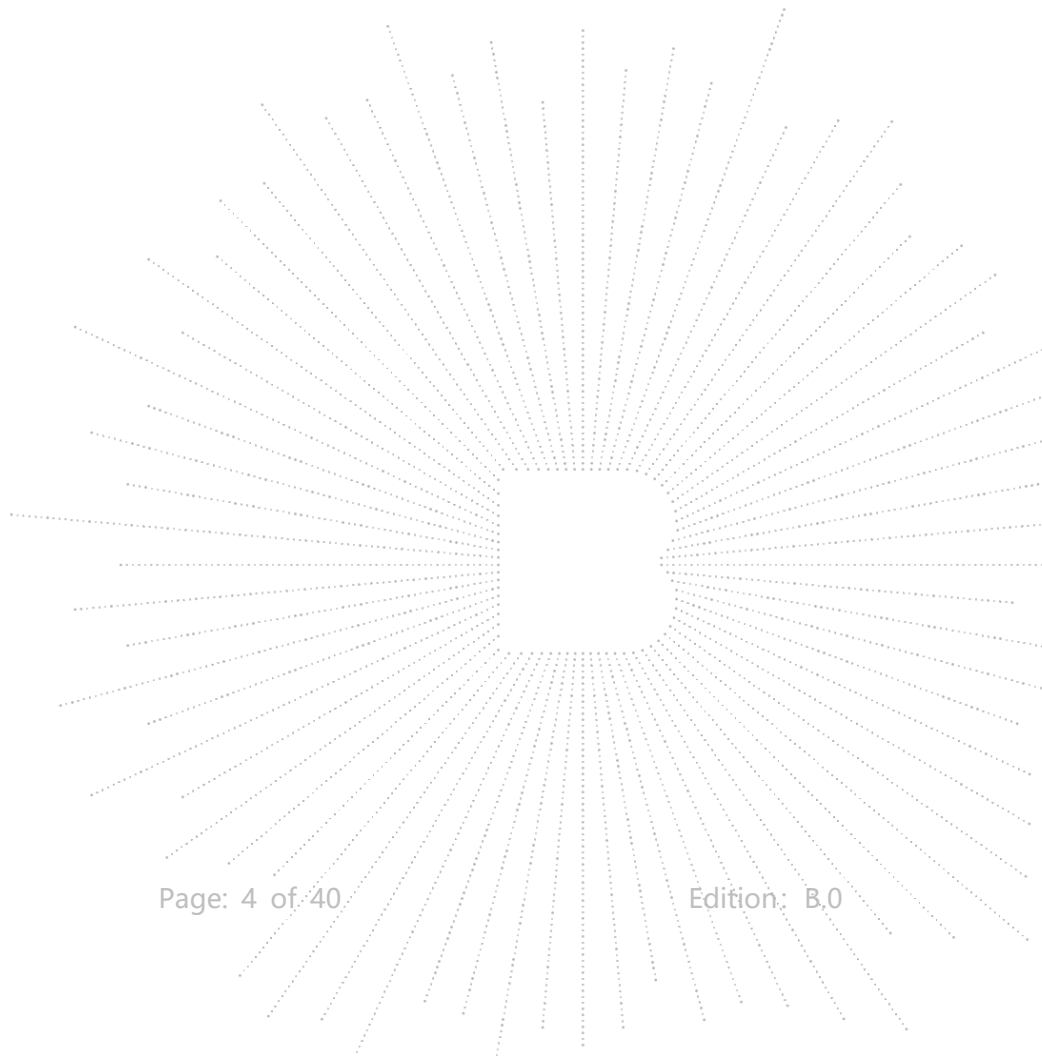
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2308365526-4E	2023-11-18	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	RF Exposure	§1.1307, §2.1093	PASS
2	RF Output Power	§2.1046; §27.50;	PASS
3	Peak-to-average Ratio(PAR) of Transmitter	§2.1046; §27.50;	PASS
4	Emission Bandwidth	§2.1049; §27.53;	PASS
5	Spurious Emissions at Antenna Terminal	§27.53	PASS
6	Spurious Radiation Emissions	§2.1051; §27.53	PASS
7	Out of Band Emissions	§2.1051; §27.53	PASS
8	Frequency Stability	§2.1055; §27.54;	PASS

3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

4. Product Information And Test Setup

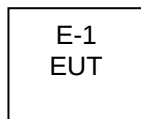
4.1 Product Information

Model/Type Reference:	S4
Model Differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Tx Frequency:	LTE Band 7: 2500MHz-2570MHz LTE Band 38: 2570MHz-2620MHz LTE Band 41: 2535MHz-2675MHz
Rx Frequency:	LTE Band 7: 2620MHz-2690MHz LTE Band 38: 2570MHz-2620MHz LTE Band 41: 2535MHz-2675MHz
Bandwidth:	LTE Band 7: 5MHz /10MHz /15MHz /20MHz LTE Band 38: 5MHz /10MHz /15MHz /20MHz LTE Band 41: 5MHz /10MHz /15MHz /20MHz
Maximum Output Power to Antenna:	LTE Band 7: 20.69 dBm LTE Band 38: 19.89 dBm LTE Band 41: 20.39 dBm
99% Occupied Bandwidth:	LTE Band 7: 18M1W7D LTE Band 38: 18M0G7D LTE Band 41: 18M0G7D
Type of Modulation:	QPSK/16QAM
Antenna Type:	Internal Antenna
Antenna Gain:	LTE Band 7: 2.18 dBi LTE Band 38: 2.18 dBi LTE Band 41: 2.18 dBi
Connecting I/O Port(s):	Please refer to the User's Manual
Ratings:	DC 3.8V from battery, DC 5V from USB

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Radiated Spurious Emission:



4.2 Emission Designator

LTE Band 7	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M54G7D	0.117	4M53W7D	0.110
10	8M99G7D	0.105	9M01W7D	0.098
15	13M6G7D	0.104	13M6W7D	0.091
20	18M1G7D	0.107	18M1W7D	0.090

LTE Band 38	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M53G7D	0.095	4M53W7D	0.080
10	9M00G7D	0.096	9M00W7D	0.076
15	13M5G7D	0.098	13M5W7D	0.092
20	18M0G7D	0.098	18M0W7D	0.094

LTE Band 41	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M53G7D	0.091	4M52W7D	0.098
10	8M99G7D	0.093	8M97W7D	0.082
15	13M5G7D	0.106	13M5W7D	0.087
20	18M0G7D	0.109	18M0W7D	0.089

4.3 Description Operation Frequency

LTE Band 7(5MHz)		LTE Band 7(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.5	20800	2505
21100	2535	21100	2535
21425	2567.5	21400	2565
LTE Band 7(15MHz)		LTE Band 7(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.5	20850	2510
21100	2535	21100	2535
21375	2562.5	21350	2560

LTE Band 38(5MHz)		LTE Band 38(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
37775	2572.5	37800	2575
38000	2595	38000	2595
38225	2617.5	38200	2615
LTE Band 38(15MHz)		LTE Band 38(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
37825	2577.5	37850	2580
38000	2595	38000	2595
38175	2612.5	38150	2610

LTE Band 41(5MHz)		LTE Band 41(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
40065	2537.5	40090	2540
40740	2605	40740	2605
41415	2672.5	41390	2670
LTE Band 41(15MHz)		LTE Band 41(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
40115	2542.5	40140	2545
40740	2605	40740	2605
41365	2667.5	41340	2665

4.4 Test Mode

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

Test Mode		
Band	Radiated TCs	Conducted TCs
LTE Band 7	QPSK Link (5MHz /10MHz / 15MHz / 20MHz)	16QAM Link (5MHz /10MHz / 15MHz / 20MHz)
LTE Band 38	QPSK Link (5MHz /10MHz / 15MHz / 20MHz)	16QAM Link (5MHz /10MHz / 15MHz / 20MHz)
LTE Band 41	QPSK Link (5MHz /10MHz / 15MHz / 20MHz)	16QAM Link (5MHz /10MHz / 15MHz / 20MHz)
Note 1: All modes and data rates and positions were investigated.		

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power.

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/ Without Core
/	/	/	/
/	/	/	/

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/ Without Core
/	/	/	/

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max.Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	7	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	38	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	41	v	-	-	-	-	-	v	v	v	-	-	v	v	v
E.R.P./ E.I.R.P.	7	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	38	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	41	-	-	v	v	-	-	v	v	v	v	v	v	v	v
Radiated Spurious Emission	7	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	38	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	41	v	-	-	-	-	-	v	v	v	-	-	v	v	v
Note	1.The mark “v “ means that this configuration is chosen for testing 2.The mark “-“ means that this bandwidth is not supported.														

4.5 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	S4 smart watch	UNICO	S4	N/A	EUT

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Offset = RF cable loss + attenuator factor.

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

FCC Designation Number: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

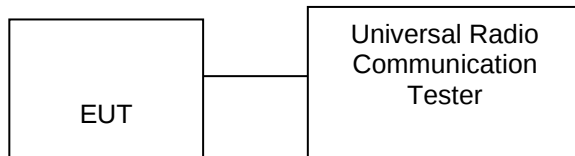
5.2 Test Instrument Used

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Communication test set	R&S	CMW500	126173	Nov. 08, 2022	Nov. 07, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. RF Output Power

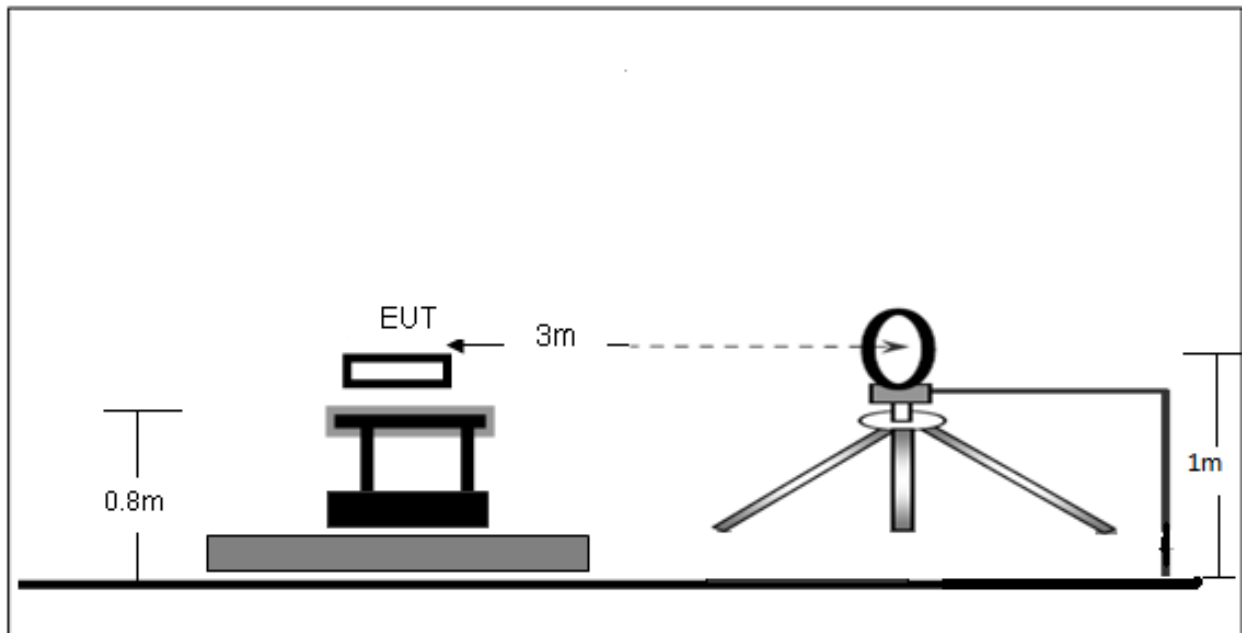
6.1 Block Diagram Of Test Setup

Conducted output power test method:

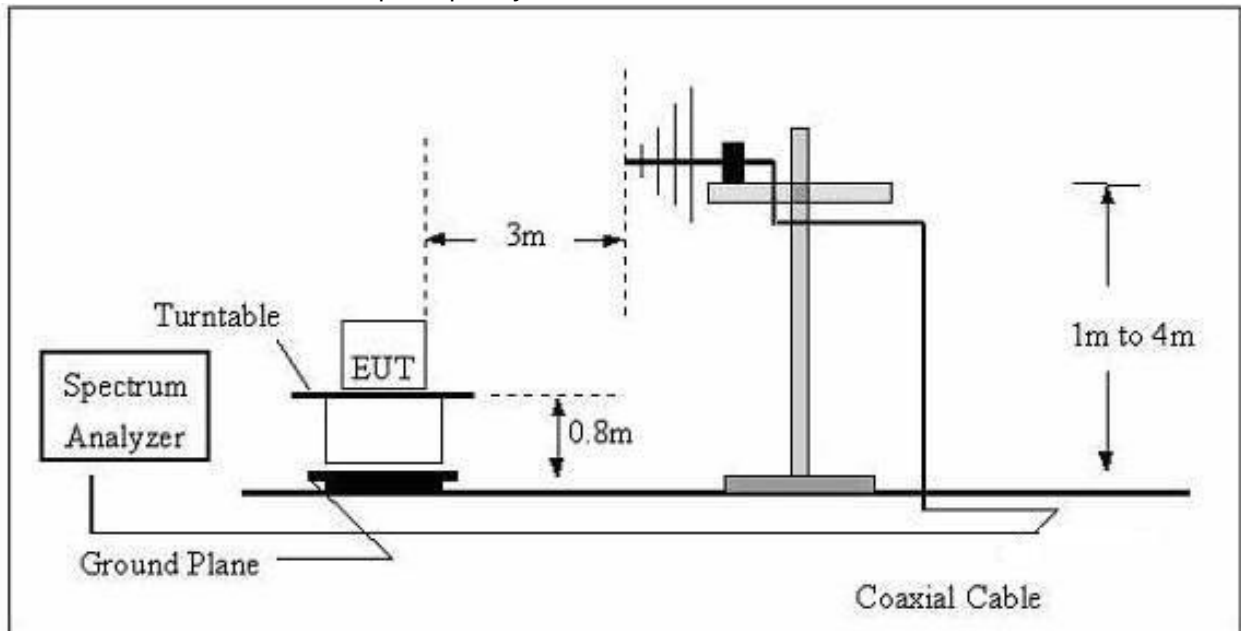


Radiated power test method:

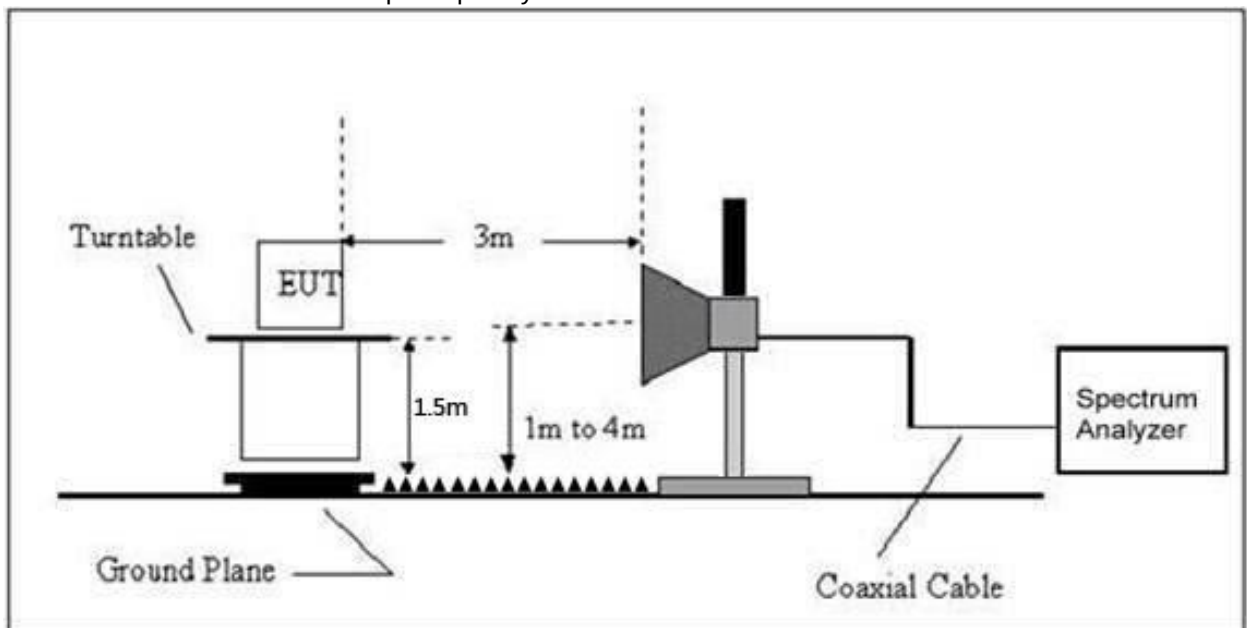
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



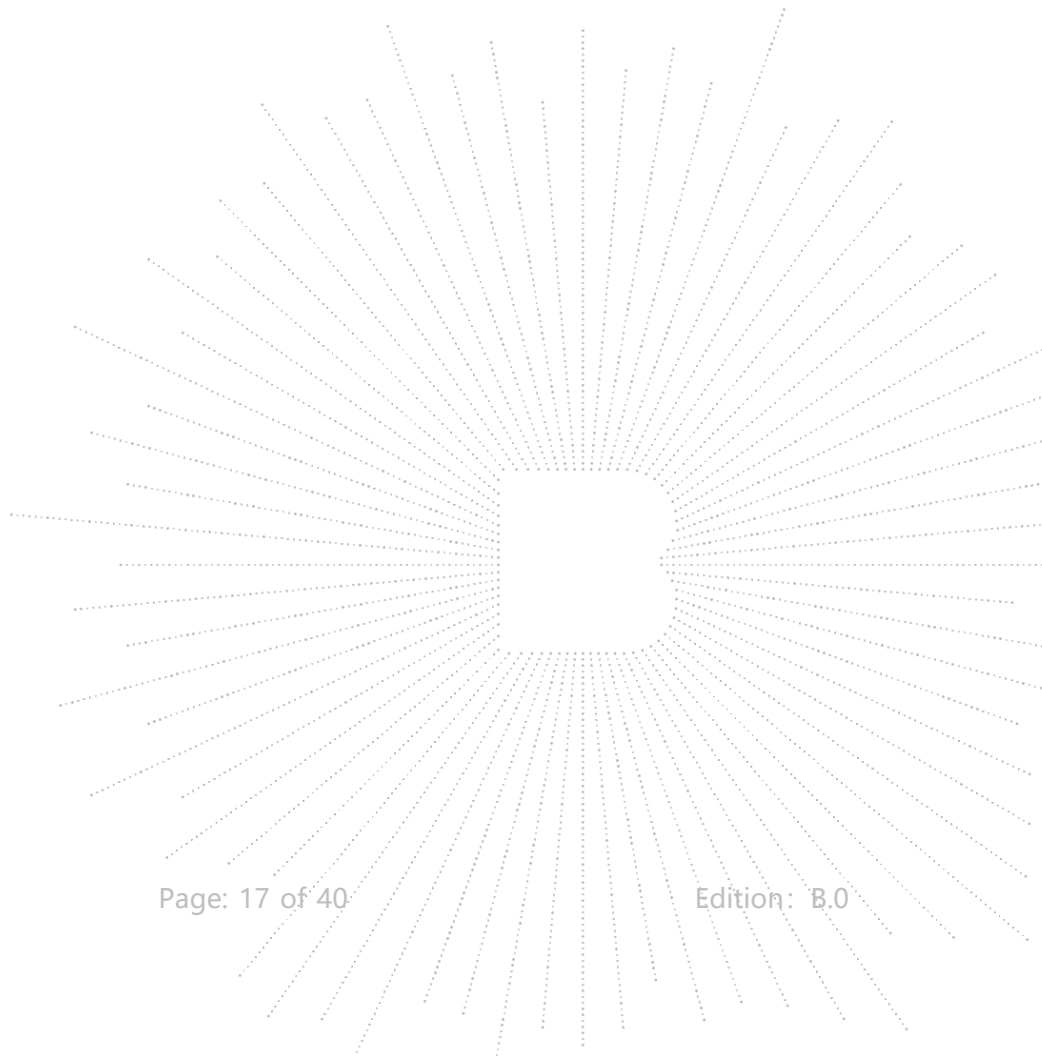
6.2 Limit

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

6.3 Test procedure

Radiated power test method:

- 1.The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.



6.4 Test Result

FDD-LTE Band 7
Channel Bandwidth: 5MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2502.5	H	1.5	0	45.23	-25.09	20.14	33.00	PASS
2502.5	V	1.5	0	44.83	-25.09	19.74	33.00	PASS
QPSK Middle Channel								
2535	H	1.5	0	45.69	-25.00	20.69	33.00	PASS
2535	V	1.5	0	44.52	-25.00	19.52	33.00	PASS
QPSK High Channel								
2567.5	H	1.5	0	45.41	-24.90	20.51	33.00	PASS
2567.5	V	1.5	0	44.25	-24.90	20.35	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2502.5	H	1.5	0	45.50	-25.09	20.41	33.00	PASS
2502.5	V	1.5	0	44.44	-25.09	19.35	33.00	PASS
16QAM Middle Channel								
2535	H	1.5	0	44.96	-25.00	19.96	33.00	PASS
2535	V	1.5	0	43.16	-25.00	18.16	33.00	PASS
16QAM High Channel								
2567.5	H	1.5	0	44.74	-24.90	19.84	33.00	PASS
2567.5	V	1.5	0	43.15	-24.90	18.25	33.00	PASS

Channel Bandwidth: 10MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2505	H	1.5	0	45.30	-25.09	20.21	33.00	PASS
2505	V	1.5	0	45.22	-25.09	20.13	33.00	PASS
QPSK Middle Channel								
2535	H	1.5	0	44.81	-25.00	19.81	33.00	PASS
2535	V	1.5	0	43.56	-25.00	18.56	33.00	PASS
QPSK High Channel								
2565	H	1.5	0	44.64	-24.91	19.73	33.00	PASS
2565	V	1.5	0	43.52	-24.91	18.61	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2505	H	1.5	0	44.62	-25.09	19.53	33.00	PASS
2505	V	1.5	0	43.82	-25.09	18.73	33.00	PASS
16QAM Middle Channel								
2535	H	1.5	0	44.93	-25.00	19.93	33.00	PASS
2535	V	1.5	0	42.76	-25.00	17.76	33.00	PASS
16QAM High Channel								
2565	H	1.5	0	43.33	-24.91	18.42	33.00	PASS
2565	V	1.5	0	42.43	-24.91	17.52	33.00	PASS

Channel Bandwidth: 15MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2507.5	H	1.5	0	45.27	-25.08	20.19	33.00	PASS
2507.5	V	1.5	0	44.70	-25.08	19.62	33.00	PASS
QPSK Middle Channel								
2535	H	1.5	0	44.87	-25.00	19.87	33.00	PASS
2535	V	1.5	0	43.62	-25.00	18.62	33.00	PASS
QPSK High Channel								
2562.5	H	1.5	0	44.78	-24.91	19.87	33.00	PASS
2562.5	V	1.5	0	43.63	-24.91	18.72	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2507.5	H	1.5	0	44.67	-25.08	19.59	33.00	PASS
2507.5	V	1.5	0	43.26	-25.08	18.18	33.00	PASS
16QAM Middle Channel								
2535	H	1.5	0	44.02	-25.00	19.02	33.00	PASS
2535	V	1.5	0	43.35	-25.00	18.35	33.00	PASS
16QAM High Channel								
2562.5	H	1.5	0	43.80	-24.91	18.89	33.00	PASS
2562.5	V	1.5	0	43.03	-24.91	18.12	33.00	PASS

Channel Bandwidth: 20MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2510	H	1.5	0	45.38	-25.07	20.31	33.00	PASS
2510	V	1.5	0	44.66	-25.07	19.59	33.00	PASS
QPSK Middle Channel								
2535	H	1.5	0	45.09	-25.00	20.09	33.00	PASS
2535	V	1.5	0	44.13	-25.00	19.13	33.00	PASS
QPSK High Channel								
2560	H	1.5	0	44.85	-24.92	19.93	33.00	PASS
2560	V	1.5	0	43.56	-24.92	18.64	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2510	H	1.5	0	-44.61	-25.07	19.54	33.00	PASS
2510	V	1.5	0	-43.02	-25.07	18.95	33.00	PASS
16QAM Middle Channel								
2535	H	1.5	0	44.19	-25.00	19.19	33.00	PASS
2535	V	1.5	0	43.82	-25.00	18.82	33.00	PASS
16QAM High Channel								
2560	H	1.5	0	44.05	-24.92	19.13	33.00	PASS
2560	V	1.5	0	43.45	-24.92	18.53	33.00	PASS

FDD-LTE Band 38
Channel Bandwidth: 5MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2572.5	H	1.5	0	44.01	-24.88	19.13	33.00	PASS
2572.5	V	1.5	0	43.30	-24.88	18.42	33.00	PASS
QPSK Middle Channel								
2595	H	1.5	0	44.25	-24.82	19.43	33.00	PASS
2595	V	1.5	0	43.19	-24.82	18.37	33.00	PASS
QPSK High Channel								
2617.5	H	1.5	0	44.51	-24.75	19.76	33.00	PASS
2617.5	V	1.5	0	44.26	-24.75	19.51	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2572.5	H	1.5	0	43.34	-24.88	18.46	33.00	PASS
2572.5	V	1.5	0	42.55	-24.88	17.67	33.00	PASS
16QAM Middle Channel								
2595	H	1.5	0	43.78	-24.82	18.96	33.00	PASS
2595	V	1.5	0	42.58	-24.82	17.76	33.00	PASS
16QAM High Channel								
2617.5	H	1.5	0	43.77	-24.75	19.02	33.00	PASS
2617.5	V	1.5	0	42.27	-24.75	17.52	33.00	PASS

Channel Bandwidth: 10MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2575	H	1.5	0	44.26	-24.88	19.38	33.00	PASS
2575	V	1.5	0	42.81	-24.88	17.93	33.00	PASS
QPSK Middle Channel								
2595	H	1.5	0	44.35	-24.82	19.53	33.00	PASS
2595	V	1.5	0	43.19	-24.82	18.37	33.00	PASS
QPSK High Channel								
2615	H	1.5	0	44.57	-24.76	19.81	33.00	PASS
2615	V	1.5	0	42.13	-24.76	17.37	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2575	H	1.5	0	43.68	-24.88	18.80	33.00	PASS
2575	V	1.5	0	42.56	-24.88	17.68	33.00	PASS
16QAM Middle Channel								
2595	H	1.5	0	43.42	-24.82	18.60	33.00	PASS
2595	V	1.5	0	42.01	-24.82	17.19	33.00	PASS
16QAM High Channel								
2615	H	1.5	0	43.49	-24.76	18.73	33.00	PASS
2615	V	1.5	0	41.81	-24.76	17.05	33.00	PASS

Channel Bandwidth: 15MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2577.5	H	1.5	0	44.31	-24.87	19.44	33.00	PASS
2577.5	V	1.5	0	43.49	-24.87	18.62	33.00	PASS
QPSK Middle Channel								
2595	H	1.5	0	44.34	-24.82	19.52	33.00	PASS
2595	V	1.5	0	42.97	-24.82	18.15	33.00	PASS
QPSK High Channel								
2612.5	H	1.5	0	44.65	-24.76	19.89	33.00	PASS
2612.5	V	1.5	0	42.50	-24.76	17.74	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2577.5	H	1.5	0	43.68	-24.87	18.81	33.00	PASS
2577.5	V	1.5	0	42.58	-24.87	17.71	33.00	PASS
16QAM Middle Channel								
2595	H	1.5	0	44.47	-24.82	19.65	33.00	PASS
2595	V	1.5	0	42.96	-24.82	18.14	33.00	PASS
16QAM High Channel								
2612.5	H	1.5	0	43.78	-24.76	19.02	33.00	PASS
2612.5	V	1.5	0	42.44	-24.76	17.68	33.00	PASS

Channel Bandwidth: 20MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2580	H	1.5	0	44.46	-24.86	19.60	33.00	PASS
2580	V	1.5	0	43.31	-24.86	18.45	33.00	PASS
QPSK Middle Channel								
2595	H	1.5	0	44.45	-24.82	19.63	33.00	PASS
2595	V	1.5	0	42.39	-24.82	17.57	33.00	PASS
QPSK High Channel								
2610	H	1.5	0	44.66	-24.77	19.89	33.00	PASS
2610	V	1.5	0	43.29	-24.77	18.52	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2580	H	1.5	0	43.64	-24.86	18.78	33.00	PASS
2580	V	1.5	0	42.28	-24.86	17.42	33.00	PASS
16QAM Middle Channel								
2595	H	1.5	0	44.54	-24.82	19.72	33.00	PASS
2595	V	1.5	0	42.92	-24.82	18.10	33.00	PASS
16QAM High Channel								
2610	H	1.5	0	43.79	-24.77	19.02	33.00	PASS
2610	V	1.5	0	42.53	-24.77	17.76	33.00	PASS

FDD-LTE Band 41
Channel Bandwidth: 5MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2537.5	H	1.5	0	44.57	-24.99	19.58	33.00	PASS
2537.5	V	1.5	0	43.66	-24.99	18.67	33.00	PASS
QPSK Middle Channel								
2605	H	1.5	0	44.14	-24.79	19.35	33.00	PASS
2605	V	1.5	0	42.18	-24.79	17.39	33.00	PASS
QPSK High Channel								
2672.5	H	1.5	0	43.92	-24.58	19.34	33.00	PASS
2672.5	V	1.5	0	43.07	-24.58	18.49	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2537.5	H	1.5	0	44.92	-24.99	19.93	33.00	PASS
2537.5	V	1.5	0	43.15	-24.99	18.16	33.00	PASS
16QAM Middle Channel								
2605	H	1.5	0	43.70	-24.79	18.91	33.00	PASS
2605	V	1.5	0	42.52	-24.79	17.73	33.00	PASS
16QAM High Channel								
2672.5	H	1.5	0	44.18	-24.58	19.60	33.00	PASS
2672.5	V	1.5	0	42.89	-24.58	18.31	33.00	PASS

Channel Bandwidth: 10MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2540	H	1.5	0	44.65	-24.98	19.67	33.00	PASS
2540	V	1.5	0	42.14	-24.98	17.16	33.00	PASS
QPSK Middle Channel								
2605	H	1.5	0	44.20	-24.79	19.41	33.00	PASS
2605	V	1.5	0	43.51	-24.79	18.72	33.00	PASS
QPSK High Channel								
2670	H	1.5	0	44.02	-24.59	19.43	33.00	PASS
2670	V	1.5	0	42.30	-24.59	17.71	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2540	H	1.5	0	44.10	-24.98	19.12	33.00	PASS
2540	V	1.5	0	42.74	-24.98	17.76	33.00	PASS
16QAM Middle Channel								
2605	H	1.5	0	43.33	-24.79	18.54	33.00	PASS
2605	V	1.5	0	42.41	-24.79	17.62	33.00	PASS
16QAM High Channel								
2670	H	1.5	0	43.00	-24.59	18.41	33.00	PASS
2670	V	1.5	0	42.51	-24.59	17.92	33.00	PASS

Channel Bandwidth: 15MHz

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2542.5	H	1.5	0	44.63	-24.97	19.66	33.00	PASS
2542.5	V	1.5	0	43.92	-24.97	18.95	33.00	PASS
QPSK Middle Channel								
2605	H	1.5	0	44.28	-24.79	19.49	33.00	PASS
2605	V	1.5	0	42.70	-24.79	17.91	33.00	PASS
QPSK High Channel								
2667.5	H	1.5	0	44.84	-24.60	20.24	33.00	PASS
2667.5	V	1.5	0	43.32	-24.60	18.72	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2542.5	H	1.5	0	44.08	-24.97	19.11	33.00	PASS
2542.5	V	1.5	0	43.92	-24.97	18.95	33.00	PASS
16QAM Middle Channel								
2605	H	1.5	0	43.41	-24.79	18.62	33.00	PASS
2605	V	1.5	0	42.40	-24.79	17.61	33.00	PASS
16QAM High Channel								
2667.5	H	1.5	0	44.01	-24.60	19.41	33.00	PASS
2667.5	V	1.5	0	42.39	-24.60	17.79	33.00	PASS

Channel Bandwidth: 20MHz

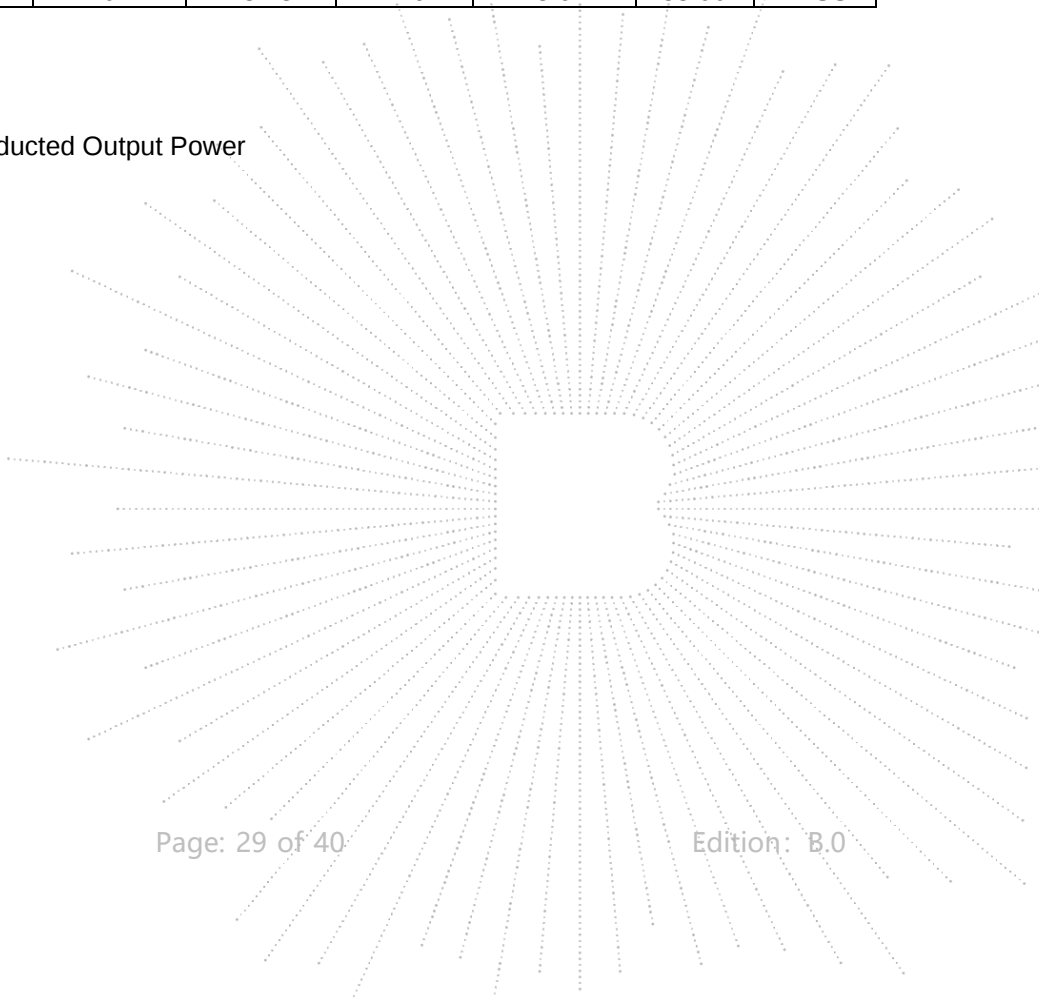
Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
QPSK Low Channel								
2545	H	1.5	0	44.70	-24.97	19.73	33.00	PASS
2545	V	1.5	0	43.60	-24.97	18.63	33.00	PASS
QPSK Middle Channel								
2605	H	1.5	0	44.45	-24.79	19.66	33.00	PASS
2605	V	1.5	0	43.51	-24.79	18.72	33.00	PASS
QPSK High Channel								
2665	H	1.5	0	45.00	-24.61	20.39	33.00	PASS
2665	V	1.5	0	43.74	-24.61	19.13	33.00	PASS

Frequency (MHz)	Polar (H/V)	Height (Meter)	Table (Degree)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	FCC Part 27 Limits (dBm)	Result
16QAM Low Channel								
2545	H	1.5	0	43.93	-24.97	18.96	33.00	PASS
2545	V	1.5	0	42.68	-24.97	17.71	33.00	PASS
16QAM Middle Channel								
2605	H	1.5	0	43.64	-24.79	18.85	33.00	PASS
2605	V	1.5	0	42.48	-24.79	17.69	33.00	PASS
16QAM High Channel								
2665	H	1.5	0	44.12	-24.61	19.51	33.00	PASS
2665	V	1.5	0	43.23	-24.61	18.62	33.00	PASS

Max Conducted output Power:

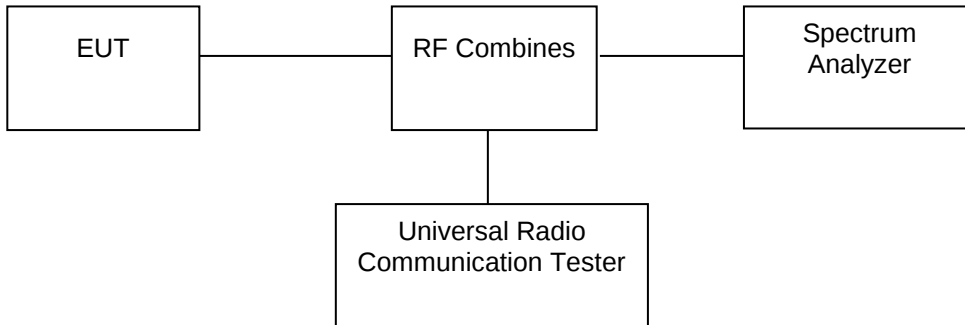
Please refer to Appendix 1: Conducted Output Power

Test Result: Pass



7. Peak-To-Average Ratio(PAR) Of Transmitter

7.1 Block Diagram Of Test Setup



7.2 Limit

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 27.50(d) (5); in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

7.3 Test procedure

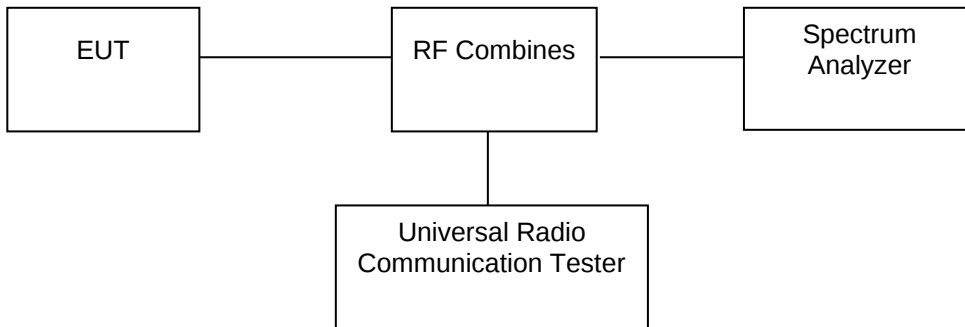
The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 30kHz and the peak-to-average ratio (PAR) of the transmission was recorded. Record the maximum PAPR level associated with a probability of 0.1%.

7.4 Test Result

Please refer to Appendix 3: Peak-to-Average Ratio
Test Result: Pass

8. Emission Bandwidth

8.1 Block Diagram Of Test Setup



8.2 Standard Applicable

According to §27.53, The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.3 Test procedure

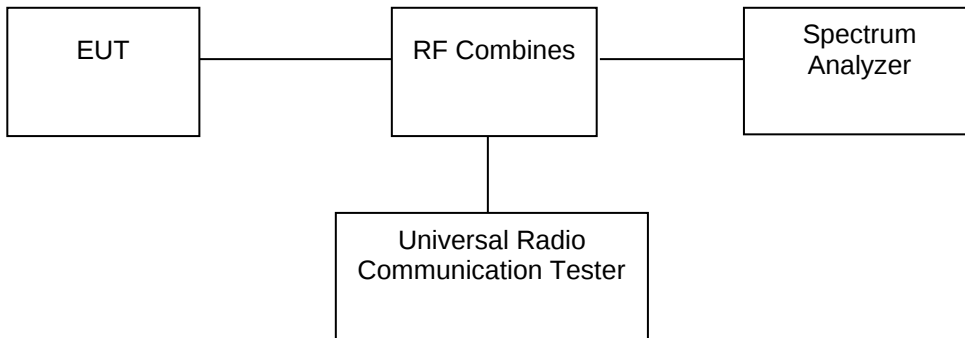
1. The testing follows FCC KDB 971168 D01v03 Section 4.2.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold.
5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

8.4 Test Result

Please refer to Appendix 4: Occupied BandWidth
Test Result: Pass

9. Out of Band Emissions at Antenna Terminal

9.1 Block Diagram Of Test Setup



9.2 Limit

According to §27.53 (m4), For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

9.3 Test procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100 kHz and 1 MHz for the scan frequency from 30 MHz to 1 GHz and the scan frequency from 1 GHz to up to 10^{th} harmonic.

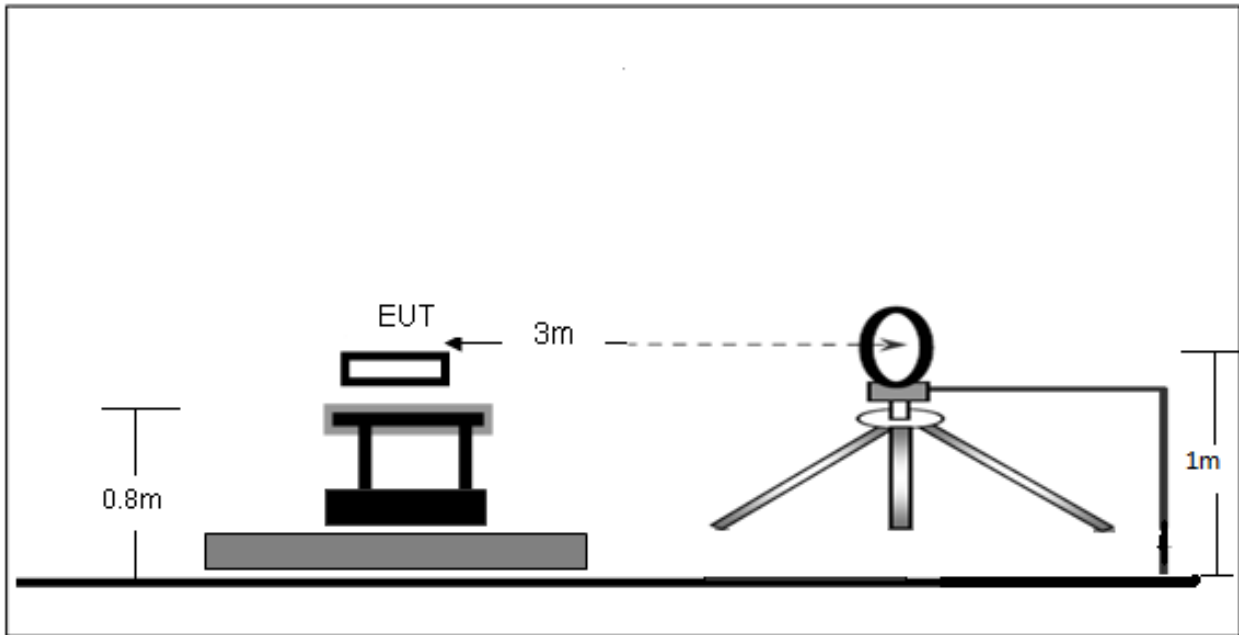
9.4 Test Result

Please refer to Appendix 5: Band Edge & Appendix 6: Out-of-band Emissions
Test Result: Pass

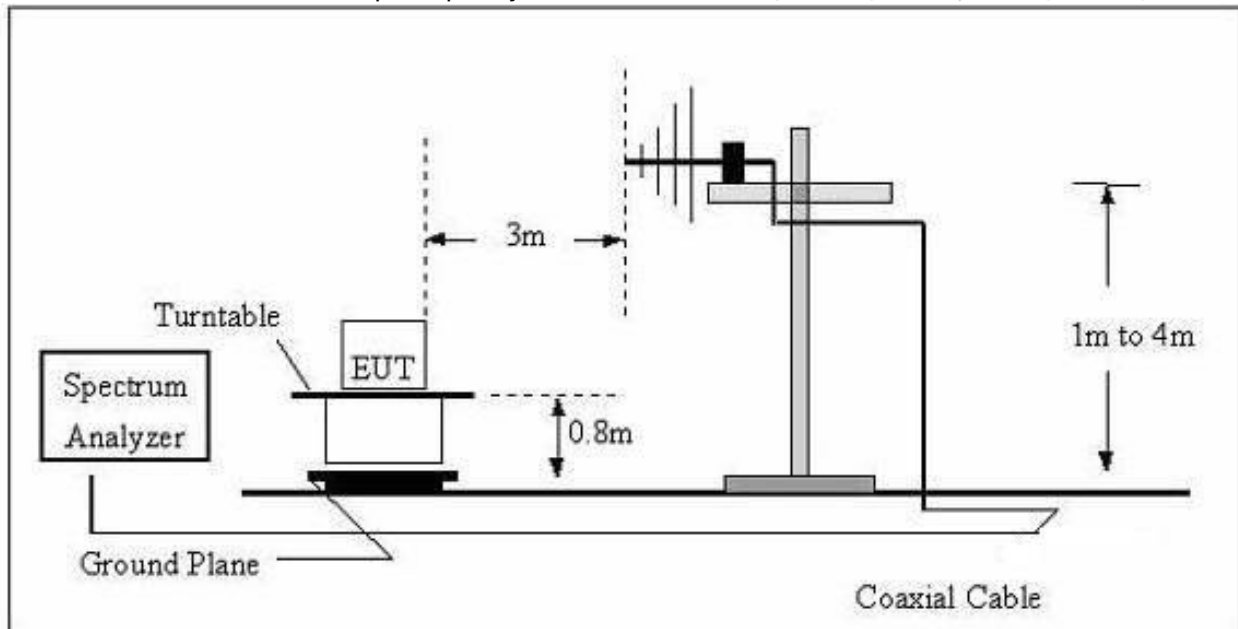
10. Spurious Radiated Emissions

10.1 Block Diagram Of Test Setup

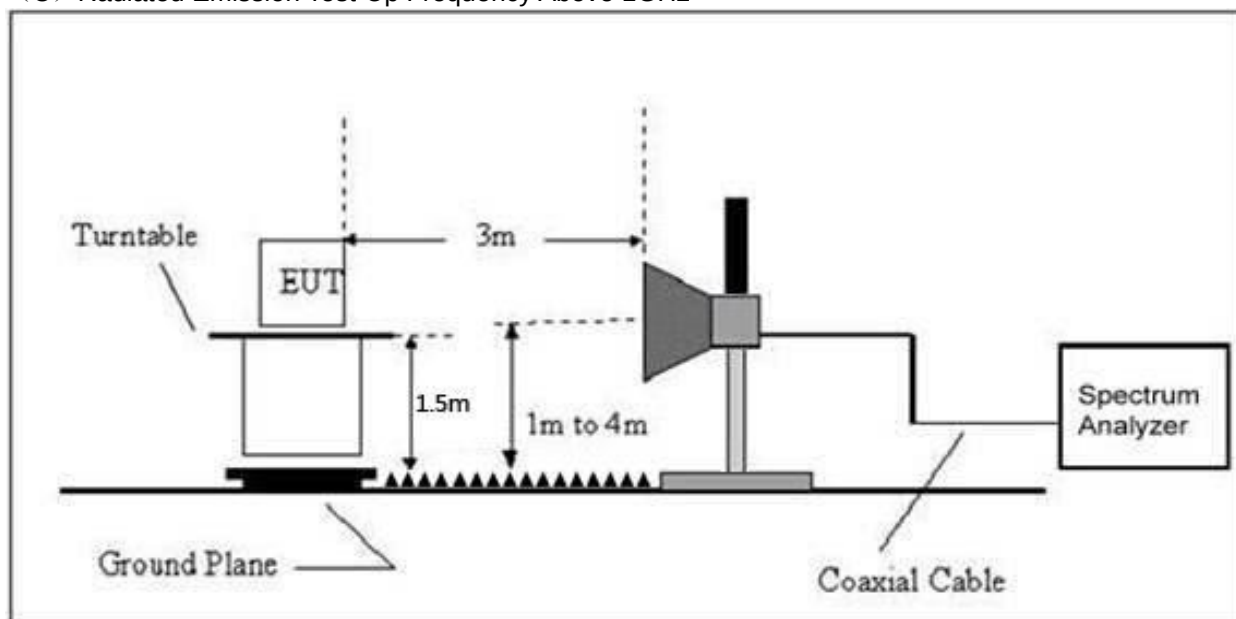
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



10.2 Limit

According to §27.53 (m4), For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (–10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (–13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (–25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

10.3 Test procedure

1. The setup of EUT is according with per ANSI/TIA Standard 603D and ANSI C63.4-2014 measurement procedure.
 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.
- Spurious attenuation limit in dB
 $= 43 + 10 \log_{10} (\text{power out in Watts})$

10.4 Test Result

For FDD-LTE Band 7 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (2502.5MHz)						
85.73	-44.55	-30.58	-75.13	-25.00	-50.13	H
1648.40	-19.84	-19.60	-39.44	-25.00	-14.44	H
2472.60	-25.03	-13.38	-38.41	-25.00	-13.41	H
85.73	-44.88	-30.58	-75.46	-25.00	-50.46	V
1648.40	-20.69	-19.60	-40.29	-25.00	-15.29	V
2472.60	-23.97	-13.38	-37.35	-25.00	-12.35	V
Middle Channel (2535MHz)						
85.73	-41.09	-30.58	-71.67	-25.00	-46.67	H
1673.20	-19.30	-19.57	-38.87	-25.00	-13.87	H
2509.80	-23.82	-13.11	-36.93	-25.00	-11.93	H
85.73	-42.68	-30.58	-73.26	-25.00	-48.26	V
1673.20	-19.59	-19.57	-39.16	-25.00	-14.16	V
2509.80	-26.06	-13.11	-39.17	-25.00	-14.17	V
High Channel (2567.5MHz)						
85.73	-44.74	-30.58	-75.32	-25.00	-50.32	H
1697.60	-19.74	-19.53	-39.27	-25.00	-14.27	H
2546.40	-24.70	-12.83	-37.53	-25.00	-12.53	H
85.73	-44.31	-30.58	-74.89	-25.00	-49.89	V
1697.60	-19.68	-19.53	-39.21	-25.00	-14.21	V
2546.40	-23.67	-12.83	-36.50	-25.00	-11.50	V

For FDD-LTE Band 38 Mode

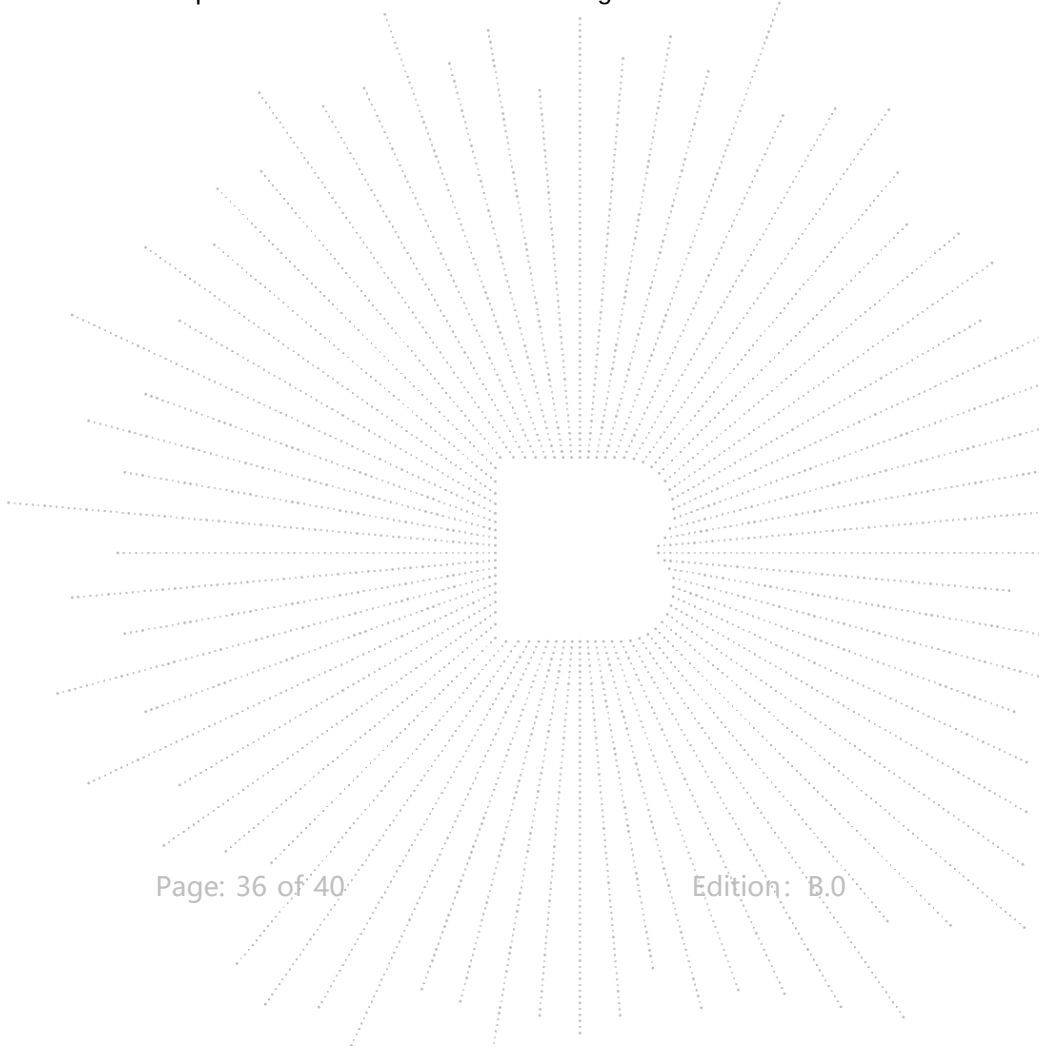
Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (2572.5MHz)						
85.73	-43.76	-30.58	-74.34	-25.00	-49.34	H
5145.00	-18.41	-19.53	-37.94	-25.00	-12.94	H
7717.50	-23.66	-12.79	-36.45	-25.00	-11.45	H
85.73	-43.13	-30.58	-73.71	-25.00	-48.71	V
5145.00	-20.94	-19.53	-40.47	-25.00	-15.47	V
7717.50	-23.96	-12.79	-36.75	-25.00	-11.75	V
Middle Channel (2595MHz)						
85.73	-43.55	-30.58	-74.13	-25.00	-49.13	H
5190.00	-18.03	-19.51	-37.54	-25.00	-12.54	H
7785.00	-23.43	-12.60	-36.03	-25.00	-11.03	H
85.73	-44.50	-30.58	-75.08	-25.00	-50.08	V
5190.00	-21.18	-19.51	-40.69	-25.00	-15.69	V
7785.00	-24.89	-12.60	-37.49	-25.00	-12.49	V
High Channel (2617.5MHz)						
85.73	-43.42	-30.58	-74.00	-25.00	-49.00	H
5235.00	-19.74	-19.48	-39.22	-25.00	-14.22	H
7852.50	-25.32	-12.41	-37.73	-25.00	-12.73	H
85.73	-44.87	-30.58	-75.45	-25.00	-50.45	V
5235.00	-18.44	-19.48	-37.92	-25.00	-12.92	V
7852.50	-26.75	-12.41	-39.16	-25.00	-14.16	V

For FDD-LTE Band 41 Mode

Frequency (MHz)	Reading (dBm)	Correct dB	Result (dBm)	Limit (dBm)	Margin (dB)	Polar H/V
Low Channel (2537.5MHz)						
85.73	-44.27	-30.58	-74.85	-25.00	-49.85	H
5075.00	-18.83	-19.61	-38.44	-25.00	-13.44	H
7612.50	-23.06	-13.41	-36.47	-25.00	-11.47	H
85.73	-43.56	-30.58	-74.14	-25.00	-49.14	V
5075.00	-19.81	-19.61	-39.42	-25.00	-14.42	V
7612.50	-27.00	-13.41	-40.41	-25.00	-15.41	V
Middle Channel (2605MHz)						
85.73	-43.18	-30.58	-73.76	-25.00	-48.76	H
5210.00	-20.91	-19.51	-40.42	-25.00	-15.42	H
7815.00	-24.49	-12.62	-37.11	-25.00	-12.11	H
85.73	-42.52	-30.58	-73.10	-25.00	-48.10	V
5210.00	-19.63	-19.51	-39.14	-25.00	-14.14	V
7815.00	-25.16	-12.62	-37.78	-25.00	-12.78	V
High Channel (2672.5MHz)						
85.73	-43.22	-30.58	-73.80	-25.00	-48.80	H
5345.00	-18.46	-19.41	-37.87	-25.00	-12.87	H
8017.50	-23.12	-11.93	-35.05	-25.00	-10.05	H
85.73	-43.13	-30.58	-73.71	-25.00	-48.71	V
5345.00	-21.61	-19.41	-41.02	-25.00	-16.02	V
8017.50	-26.20	-11.93	-38.13	-25.00	-13.13	V

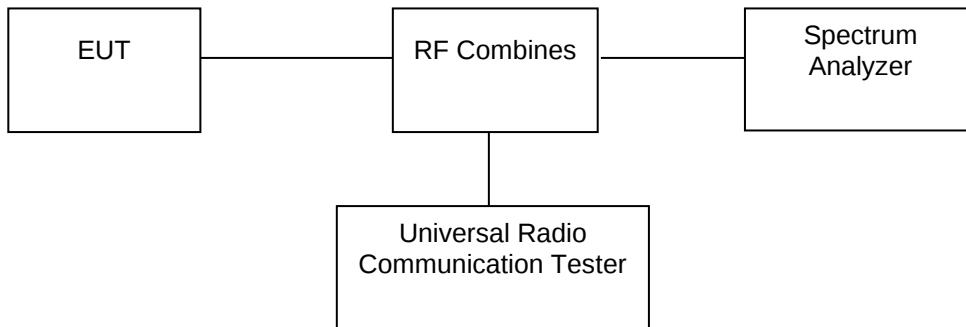
Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



11. Frequency Stability

11.1 Block Diagram Of Test Setup



11.2 Limit

According to §27.54, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.3 Test procedure

Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 D01v03 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 D01v03 Section 9.0.
2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

11.4 Test Result

Please refer to Appendix 2: Frequency Stability

Test Result: Pass

12. EUT Photographs

EUT Photo 1



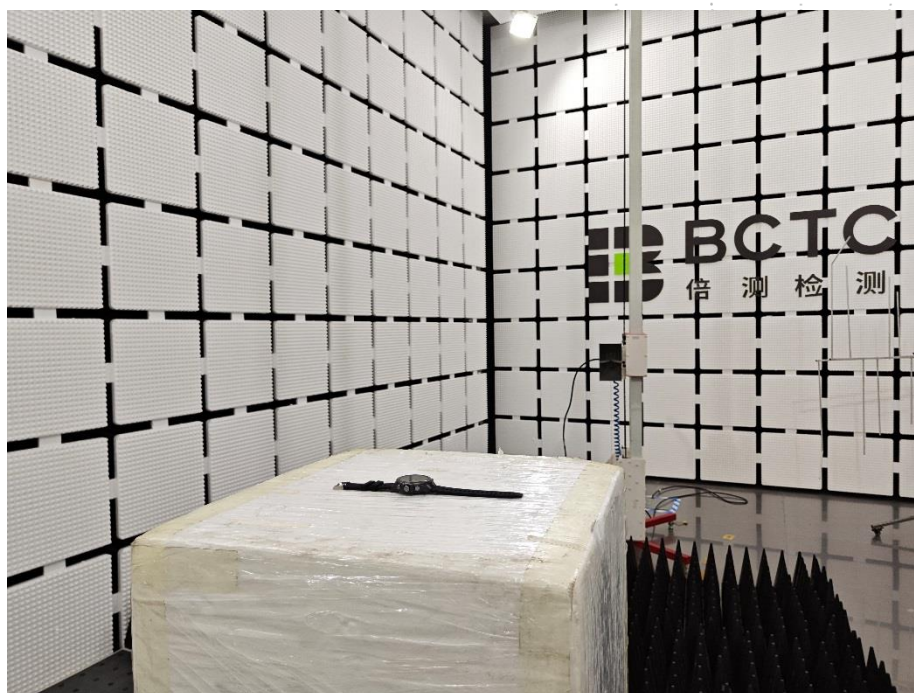
EUT Photo 2



NOTE: Appendix-Photographs Of EUT Constructional Details

13. EUT Test Setup Photographs

Radiated Measurement Photos



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****