

FCC Radio Partial Test Report

FCC ID: 2AYGCLGE-NX9

This report concerns: Original Grant

Project No. : 2203G019
Equipment : Smart Phone
Brand Name : HONOR
Test Model : LGE-NX9
Series Model : N/A
Applicant : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Date of Receipt : Feb. 14, 2022
Date of Test : Feb. 14, 2022 ~ Apr. 14, 2022
Issued Date : Apr. 20, 2022
Report Version : R00
Standard(s) : 47 CFR FCC Part 27 Subpart L
47 CFR FCC Part 27 Subpart M
47 CFR FCC Part 27 Subpart H
47 CFR FCC Part 27 Subpart F
47 CFR FCC Part 2
ANSI C63.26-2015
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2203G019	R00	Original Report.	Apr. 20, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 27 Subpart L, M, H, F & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 27.50(d)(4) 27.50(c)(10) 27.50(b)(10) 27.50(h)(2)	Output Power & Equivalent (Isotropic) Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 27.53(h) 27.53(g) 27.53(c)(2)(f) 27.53(m)(4)&(m)(6)	Conducted Spurious Emissions	PASS	-----
2.1047	Modulation Characteristics	PASS	-----
2.1051 27.53(h) 27.53(g) 27.53(c)(2)(f) 27.53(m)(4)&(m)(6)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 27.54	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data of conducted in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

Parameter	Uncertainty
Transmit Output Power Output Data	U = 0.40 dB
RF Power Density, Conducted	U = 0.66 dB
Bandwidth	200kHz: U=9.06kHz 1.4MHz: U=9.48kHz 3MHz: U= 10.86kHz 5MHz: U=13.84kHz 10MHz: U=22.32kHz 15MHz: U=31.9kHz 20MHz: U=41.78kHz
Band Edge Compliance	U = 0.9 dB
Spurious Emissions, Conducted	20MHz~3.6GHz: U=0.88dB 3.6GHz~8.4GHz: U= 1.08dB 8.4GHz~13.6GHz: U= 1.24dB 13.6GHz~22GHz: U= 1.34dB 22GHz~26.5GHz: U= 1.36dB
Frequency Stability	800MHz: U=24.08Hz 900MHz: U=24.54Hz 1900MHz: U=34.7Hz 2100MHz: U=36.96Hz 2300MHz: U=39.24Hz 2500MHz: U=41.58Hz 2600MHz: U=42.74Hz

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & ERP & EIRP	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Occupied Bandwidth	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Conducted Spurious Emissions	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Band Edge	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Peak to Average Ratio	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Frequency Stability	Normal & Extreme	25 ~ 75%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone		
Brand Name	HONOR		
Test Model	LGE-NX9		
Series Model	N/A		
Model Difference(s)	N/A		
Hardware Version	HN1LGEHM		
Software Version	6.0.0.108(C900E103R1P3)		
Power Source	1# DC voltage supplied from AC adapter. 2# Supplied from battery.		
Power Rating	1# I/P: 100-240V~ 50/60Hz 1.6A O/P: 5V \equiv 2A or 10V \equiv 4A or 20V \equiv 5A Max 2# DC 3.87V, Rated Capacity:4500mAh		
IMEI No.	867843050038442, 867843050038392		
Modulation Type	WCDMA/HSDPA/HSUPA	UL: QPSK	
	LTE	UL: QPSK, 16QAM, 64QAM	
Max. EIRP	WCDMA Band IV	20.22	dBm
	LTE Band 4	21.76	dBm
	LTE Band 7	23.39	dBm
	LTE Band 38	23.40	dBm
	LTE Band 41	24.30	dBm
	LTE Band 66	20.91	dBm
	LTE Band 7C	20.67	dBm
	LTE Band 38C	19.40	dBm
	LTE Band 41C	21.18	dBm
	LTE Band 66C	17.21	dBm
Max. ERP	LTE Band 12	12.65	dBm
	LTE Band 13	14.49	dBm
	LTE Band 17	12.66	dBm

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

WCDMA Band IV(UL: 1710-1755MHz, DL: 2110-2155MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	1312	1712.4	1537	2112.4
Mid Range	1413	1732.6	1638	2132.6
High Range	1513	1752.6	1738	2152.6

LTE Band 4(UL: 1710-1755MHz, DL: 2110-2155MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1740	2300	2145

LTE Band 7(UL: 2500-2570MHz, DL: 2620-2690MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	5	20775	2502.5	2775	2622.5
	10	20800	2505	2800	2625
	15	20825	2507.5	2825	2627.5
	20	20850	2510	2850	2630
Mid Range	5/10/15/20	21100	2535	3100	2655
High Range	5	21425	2567.5	3425	2687.5
	10	21400	2565	3400	2685
	15	21375	2562.5	3375	2682.5
	20	21350	2560	3350	2680

LTE Band 12(UL: 699-716 MHz, DL: 729-746MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5025	730.5
	5	23035	701.5	5035	731.5
	10	23060	704.0	5060	734
Mid Range	1.4/3/5/10	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5165	744.5
	5	23155	713.5	5155	743.5
	10	23130	711.0	5130	741

LTE Band 13(UL: 777-787MHz, DL: 746-756MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	5	23205	779.5	5205	748.5
Mid Range	5/10	23230	782.0	5230	751
High Range	5	23255	784.5	5255	753.5

LTE Band 17(UL: 704-716 MHz, DL: 734-746MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	5	23755	706.5	5755	736.5
	10	23780	709	5780	739
Mid Range	5/10	23790	710	5790	740
High Range	5	23825	713.5	5825	743.5
	10	23800	711	5800	741

LTE Band 38(UL/DL: 2570-2620MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	37775	2572.5
	10	37800	2575
	15	37825	2577.5
	20	37850	2580
Mid Range	5/10/15/20	38000	2600
High Range	5	38225	2617.5
	10	38200	2615
	15	38175	2612.5
	20	38150	2610

LTE Band 41(UL/DL: 2496-2690MHz)			
Test Frequency ID	Bandwidth (MHz)	EARFCN	Frequency (UL and DL) (MHz)
Low Range	5	39675	2498.5
	10	39700	2501.0
	15	39725	2503.5
	20	39750	2506.0
Mid Range	5/10/15/20	40620	2593
High Range	5	41565	2687.5
	10	41540	2685.0
	15	41515	2682.5
	20	41490	2680.0

LTE Band 66(UL: 1710-1780MHz, DL: 2110-2200MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	131979	1710.7	66443	2110.7
	3	131987	1711.5	66451	2111.5
	5	131997	1712.5	66461	2112.5
	10	132022	1715	66486	2115
	15	132047	1717.5	66511	2117.5
	20	132072	1720	66536	2120
Mid Range	1.4/3/5/10/15/20	132322	1745	66786	2145
High Range	1.4	132665	1779.3	67129	2179.3
	3	132657	1778.5	67121	2178.5
	5	132647	1777.5	67111	2177.5
	10	132622	1775	67086	2175
	15	132597	1772.5	67061	2172.5
	20	132572	1770	67036	2170

LTE CA_7C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4
	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1
100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8	
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7
100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9	
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680

Note 1: Carriers in increasing frequency order.

LTE CA_38C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610

Note 1: Carriers in increasing frequency order.

LTE CA_41C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1			CC2 Note1		
		BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]	BW [RB]	N _{UL/DL}	f _{UL/DL} [MHz]
Low	25+100	25	39683	2499.3	100	39800	2511
		100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
		75	39725	2503.5	50	39845	2515.5
	50+100	50	39705	2501.5	100	39849	2515.9
		100	39750	2506	50	39894	2520.4
	75+75	75	39725	2503.5	75	39875	2518.5
	75+100	75	39728	2503.8	100	39899	2520.9
		100	39750	2506	75	39921	2523.1
	100+100	100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
		100	40595	2590.5	25	40712	2602.2
	50+75	50	40549	2585.9	75	40669	2597.9
		75	40571	2588.1	50	40691	2600.1
	50+100	50	40526	2583.6	100	40670	2598.0
		100	40571	2588.1	50	40715	2602.5
	75+75	75	40545	2585.5	75	40695	2600.5
	75+100	75	40523	2583.3	100	40694	2600.4
		100	40546	2585.6	75	40717	2602.7
	100+100	100	40521	2583.1	100	40719	2602.9
High	25+100	25	41373	2668.3	100	41490	2680
		100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
		75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100	41391	2670.1	50	41535	2684.5
	75+75	75	41365	2667.5	75	41515	2682.5
	75+100	75	41319	2662.9	100	41490	2680
		100	41341	2665.1	75	41512	2682.2
	100+100	100	41292	2660.2	100	41490	2680

Note 1: Carriers in increasing frequency order.

LTE CA_66C

Range	CC-Combo / N _{RB,agg} [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	N _{UL}	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]
Low	50+75	50	132025	1715.3	66489	2115.3	75	132145	1727.3	66609	2127.3
		75	132047	1717.5	66511	2117.5	50	132167	1729.5	66631	2129.5
	50+100	50	132027	1715.5	66491	2115.5	100	132171	1729.9	66635	2129.9
		100	132072	1720	66536	2120	50	132216	1734.4	66680	2134.4
	75+75	75	132047	1717.5	66511	2117.5	75	132197	1732.5	66661	2132.5
	75+100	75	132050	1717.8	66514	2117.8	100	132221	1734.9	66685	2134.9
		100	132072	1720	66536	2120	75	132243	1737.1	66707	2137.1
	100+25	100	132072	1720	66536	2120	25	132189	1731.7	66653	2131.7
		25	132005	1713.3	66469	2113.3	100	132122	1725.0	66586	2125.0
	100+100	100	132072	1720	66536	2120	100	132270	1739.8	66734	2139.8
Mid	50+75	50	132351	1747.9	66815	2147.9	75	132471	1759.9	66935	2159.9
		75	132373	1750.1	66837	2150.1	50	132493	1762.1	66957	2162.1
	50+100	50	132328	1745.6	66792	2145.6	100	132472	1760	66936	2160
		100	132373	1750.1	66837	2150.1	50	132517	1764.5	66981	2164.5
	75+75	75	132347	1747.5	66811	2147.5	75	132497	1762.5	66961	2162.5
	75+100	75	132325	1745.3	66789	2145.3	100	132496	1762.4	66960	2162.4
		100	132348	1747.6	66812	2147.6	75	132519	1764.7	66983	2164.7
	100+25	100	132397	1752.5	66861	2152.5	25	132514	1764.2	66978	2164.2
		25	132330	1745.8	66794	2145.8	100	132447	1757.5	66911	2157.5
	100+100	100	132323	1745.1	66787	2145.1	100	132521	1764.9	66985	2164.9
High ²	50+75	50	132622	1775	67086	2175	75	NA	NA	67206	2187
		75	132597	1772.5	67061	2172.5	50	NA	NA	67181	2184.5
	50+100	50	132622	1775	67086	2175	100	NA	NA	67230	2189.4
		100	132572	1770	67036	2170	50	NA	NA	67180	2184.4
	75+75	75	132597	1772.5	67061	2172.5	75	NA	NA	67211	2187.5
	75+100	75	132597	1772.5	67061	2172.5	100	NA	NA	67232	2189.6
		100	132572	1770	67036	2170	75	NA	NA	67207	2187.1
	100+25	100	132572	1770	67036	2170	25	NA	NA	67153	2181.7
		25	132647	1777.5	67111	2177.5	100	NA	NA	67228	2189.2
	100+100	100	132572	1770	67036	2170	100	NA	NA	67234	2189.8
High ³	50+75	50	132477	1760.5	66941	2160.5	75	132597	1772.5	67061	2172.5
		75	132499	1762.7	66963	2162.7	50	132619	1774.7	67083	2174.7
	50+100	50	132428	1755.6	66892	2155.6	100	132572	1770	67036	2170
		100	132473	1760.1	66937	2160.1	50	132617	1774.5	67081	2174.5
	75+75	75	132447	1757.5	66911	2157.5	75	132597	1772.5	67061	2172.5
	75+100	75	132401	1752.9	66885	2152.9	100	132572	1770	67036	2170
		100	132423	1755.1	66887	2155.1	75	132594	1772.2	67058	2172.2
	100+25	100	132522	1765	66986	2165	25	132639	1776.7	67103	2176.7
		25	132455	1758.3	66919	2158.3	100	132572	1770.0	67036	2170.0
	100+100	100	132374	1750.2	66838	2150.2	100	132572	1770	67036	2170
Note 1:		Carriers in increasing frequency order.									
Note 2:		Applicable for intra-band contiguous CA without UL CA.									
Note 3:		Applicable for intra-band contiguous CA with UL CA.									

3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Integral	N/A	-3.2	WCDMA Band IV
				-3.2	LTE Band 4
				-1.1	LTE Band 7
				-9.7	LTE Band 12
				-7.6	LTE Band 13
				-9.7	LTE Band 17
				-1.1	LTE Band 38
				-1.1	LTE Band 41
				-3.2	LTE Band 66

Note: The antenna gain is provided by the manufacturer.

4. The EUT contains following accessory devices:

Object / Part No.	Manufacturer / Trademark	Type / Model Name	Technical Data
Adapter	HONOR Device Co., Ltd.	HN-200500E01	I/P: 100-240V ~50/60Hz, 1.6A O/P: 5V \equiv 2A or 10V \equiv 4A or 20V \equiv 5A Max
		HN-200500U01	
		HN-200500B01	
Battery	Shenzhen Sunwoda Intelligence Technology Co., Ltd.	HB586680EFW	Rated capacity: 4500 mAh Nominal Voltage: +3.87V Charging Voltage: +4.45V
	Scud (Fujian) Electronics Co., Ltd.		

2.2 DESCRIPTION OF TEST MODES

Test Modes in the report are described below:

Test Mode	Test Modes Description
WCDMA/TM1	WCDMA system, QPSK modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
LTE/TM3	LTE system, 64QAM modulation

Note: The test mode(s) are selected according to relevant radio technology specifications.

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

WCDMA BAND IV MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
Occupied Bandwidth	1312 to 1513	1312, 1413, 1513	WCDMA
Conducted Spurious Emissions	1312 to 1513	1312, 1413, 1513	WCDMA
Band Edge	1312 to 1513	1312, 1513	WCDMA
Peak To Average Ratio	1312 to 1513	1312, 1413, 1513	WCDMA
Frequency Stability	1312 to 1513	1312, 1413, 1513	WCDMA
Modulation Characteristics	1312 to 1513	1413	WCDMA

LTE BAND 4 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1RB/6RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB/25RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM, 64QAM	15RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	25RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	50RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	75RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	19957 to 20393	19957, 20175, 20393	1.4 MHz	QPSK, 16QAM	1RB/6RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1RB/25RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1RB/100RB
Band Edge	19957 to 20393	19957, 20393	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	19975 to 20375	19975, 20375	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	20050 to 20300	20050, 20300	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak To Average Ratio	19957 to 20393	20175	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	19975 to 20375	20175	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	20050 to 20300	20175	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Frequency Stability	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100RB
Modulation Characteristics	19957 to 20393	20175	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	19975 to 20375	20175	5MHz	QPSK, 16QAM, 64QAM	25RB
	20050 to 20300	20175	20MHz	QPSK, 16QAM, 64QAM	100RB

LTE BAND 7 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/50RB/100RB
Occupied Bandwidth	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	25RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	50RB
	20825 to 21375	20825, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	75RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1RB/25RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1RB/100RB
Band Edge	20775 to 21425	20775, 21425	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	20850 to 21350	20850, 21350	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak To Average Ratio	20775 to 21425	21100	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	20850 to 21350	21100	20MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Frequency Stability	20775 to 21425	21100	5MHz	QPSK, 16QAM	25RB
	20850 to 21350	21100	20MHz	QPSK, 16QAM	100RB
Modulation Characteristics	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	100RB

LTE BAND 12 MODE

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1RB/6RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1RB/25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1RB/50RB
Frequency Stability	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	6RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	50RB
Occupied Bandwidth	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	15RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	50RB
Peak to Average Ratio	23017 to 23173	23095	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	23035 to 23155	23095	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23060 to 23130	23095	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Band Edge	23017 to 23173	23017, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	23035 to 23155	23035, 23155	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23060 to 23130	23060, 23130	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Conducted Emission	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1RB/6RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1RB/25RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1RB/50RB
Modulation Characteristics	23017 to 23173	23095	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	23017 to 23173	23095	5MHz	QPSK, 16QAM, 64QAM	25RB
	23060 to 23130	23095	10MHz	QPSK, 16QAM, 64QAM	50RB

LTE BAND 13 MODE

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1RB/25RB
	23205 to 23255	23205, 23230, 23255	10MHz	QPSK, 16QAM	1RB/50RB
Occupied Bandwidth	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	25RB
	23205 to 23255	23205, 23230, 23255	10MHz	QPSK, 16QAM	50RB
Band Edge	23205 to 23255	23205, 23255	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23205 to 23255	23205, 23255	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Conducted Emission	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1RB/25RB
	23205 to 23255	23205, 23230, 23255	10MHz	QPSK, 16QAM	1RB/50RB
Modulation Characteristics	23205 to 23255	23230	5MHz	QPSK, 16QAM, 64QAM	25RB
	23205 to 23255	23230	10MHz	QPSK, 16QAM, 64QAM	50RB
Peak to Average Ratio	23205 to 23255	23230	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23205 to 23255	23230	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Frequency Stability	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	25RB
	23205 to 23255	23205, 23230, 23255	10MHz	QPSK, 16QAM	50RB

LTE BAND 17 MODE

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1RB/25RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1RB/50RB
Occupied Bandwidth	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	25RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	50RB
Conducted Spurious Emissions	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1RB/25RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1RB/50RB
Modulation Characteristics	23755 to 23825	23790	5MHz	QPSK, 16QAM, 64QAM	25RB
	23780 to 23800	23790	10MHz	QPSK, 16QAM, 64QAM	50RB
Band Edge	23755 to 23825	23755, 23825	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23780 to 23800	23780, 23800	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Peak to Average Ratio	23755 to 23825	23790	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	23780 to 23800	23790	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Frequency Stability	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	25RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	50RB

LTE BAND 38 MODE

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB/25RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	25RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	50RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	75RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	100RB
Modulation Characteristics	37850 to 38150	38000	5MHz	QPSK, 16QAM, 64QAM	25RB
	37850 to 38150	38000	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	37850 to 38150	37775, 38000, 38225	5MHz	QPSK, 16QAM	1RB/25RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	1RB/100RB
Band Edge	37775 to 38225	37775, 38225	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	37850 to 38150	37850, 38150	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak to Average Ratio	37775 to 38225	38000	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	37850 to 38150	38000	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Frequency Stability	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	25RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM	100RB

LTE BAND 41 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM	1RB/25RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM, 64QAM	25RB
	40090 to 41190	40090, 40640, 41190	10MHz	QPSK, 16QAM, 64QAM	50RB
	40115 to 41165	40115, 40640, 41165	15MHz	QPSK, 16QAM, 64QAM	75RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM	1RB/25RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM	1RB/100RB
Modulation Characteristics	40065 to 41215	40640	5MHz	QPSK, 16QAM, 64QAM	25RB
	40140 to 41140	40640	20MHz	QPSK, 16QAM, 64QAM	100RB
Band Edge	40065 to 41215	40065, 41215	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	40140 to 41140	40140, 41140	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak to Average Ratio	40065 to 41215	40640	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	40140 to 41140	40640	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Frequency Stability	40065 to 41215	40065, 40640, 41215	5MHz	QPSK, 16QAM	25RB
	40140 to 41140	40140, 40640, 41140	20MHz	QPSK, 16QAM	100RB

LTE BAND 66 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1RB/6RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1RB/25RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	15RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	25RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	50RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	75 RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	1RB/6RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	1RB/25RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	1RB/100RB
Modulation Characteristics	131979 to 132665	132322	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	131997 to 132647	132322	5MHz	QPSK, 16QAM, 64QAM	25RB
	132072 to 132572	132322	20MHz	QPSK, 16QAM, 64QAM	100RB
Band Edge	131979 to 132665	131979, 132665	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	131997 to 132647	131997, 132647	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	132072 to 132572	132072, 132572	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak to Average Ratio	131979 to 132665	132322	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	131997 to 132647	132322	5MHz	QPSK, 16QAM, 64QAM	1RB/15RB
	132072 to 132572	132322	20MHz	QPSK, 16QAM, 64QAM	1RB/25RB
Frequency Stability	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM	6RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM	25RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM	100RB

LTE CA_7C MODE				
Test Item	Channel Range	Channel Bandwidth	Modulation	Mode
Output Power &EIRP	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Occupied Bandwidth	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: Full RB+Full RB
		20MHz+20MHz		
Conducted Spurious Emissions	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Band Edge	Low, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		

LTE CA_38C MODE				
Test Item	Channel Range	Channel Bandwidth	Modulation	Mode
Output Power &EIRP	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Occupied Bandwidth	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: Full RB+Full RB
		20MHz+20MHz		
Conducted Spurious Emissions	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Band Edge	Low, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		

LTE CA_41C MODE				
Test Item	Channel Range	Channel Bandwidth	Modulation	Mode
Output Power &EIRP	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Occupied Bandwidth	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: Full RB+Full RB
		20MHz+20MHz		
Conducted Spurious Emissions	Low, Mid, High	15MHz+15MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Band Edge	Low, High	15MHz+15MHz	QPSK, 16QAM, 64QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		

LTE CA_66C MODE				
Test Item	Channel Range	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	Low, Mid, High	20MHz+5MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Occupied Bandwidth	Low, Mid, High	20MHz+5MHz	QPSK, 16QAM, 64QAM	PCC+SCC: Full RB+Full RB
		20MHz+20MHz		
Conducted Spurious Emissions	Low, Mid, High	20MHz+5MHz	QPSK, 16QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		
Band Edge	Low, High	20MHz+5MHz	QPSK, 16QAM, 64QAM	PCC+SCC: 1RB#Low+1RB# High Full RB+Full RB
		20MHz+20MHz		

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 1 watts e.i.r.p. (Part 27 Subpart L)

Mobile / Portable station are limited to 2 watts e.i.r.p. (Part 27 Subpart M)

Mobile / Portable station are limited to 3 watts e.r.p (Part 27 Subpart H,F)

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

ERP:

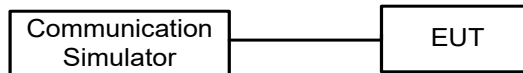
$ERP = EIRP - 2.15$

Output Power:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX.

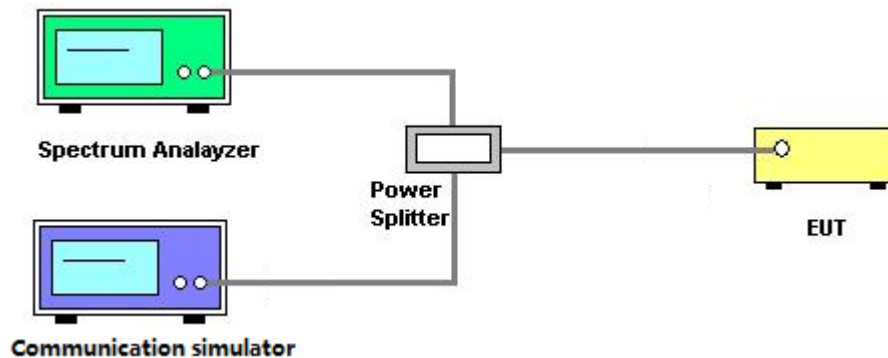
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW=(1\% \sim 5\%)*EBW$
 $VBW \geq 3* RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm. (Part 27 Subpart L)

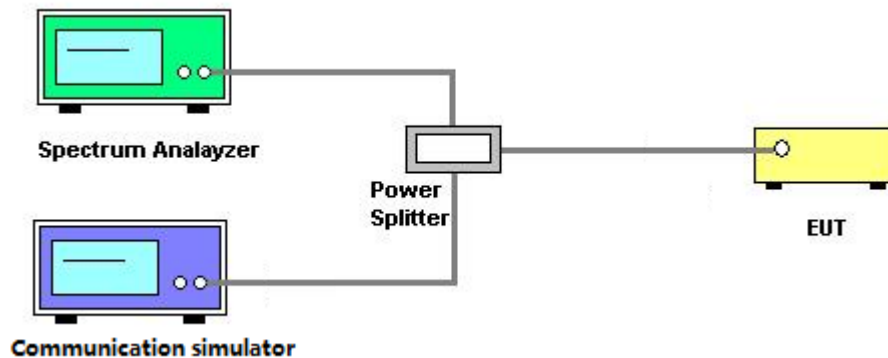
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm. (Part 27 Subpart M)

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMIT

The power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. (Part 27 Subpart L)

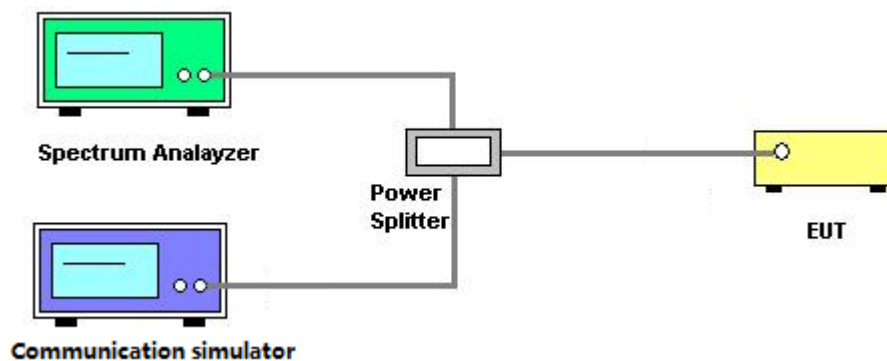
For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. 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. (Part 27 Subpart M)

3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.4.3 TEST SETUP LAYOUT



3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS

Please refer to the APPENDIX.

3.5 PEAK TO AVERAGE RATIO MEASUREMENT

3.5.1 LIMIT

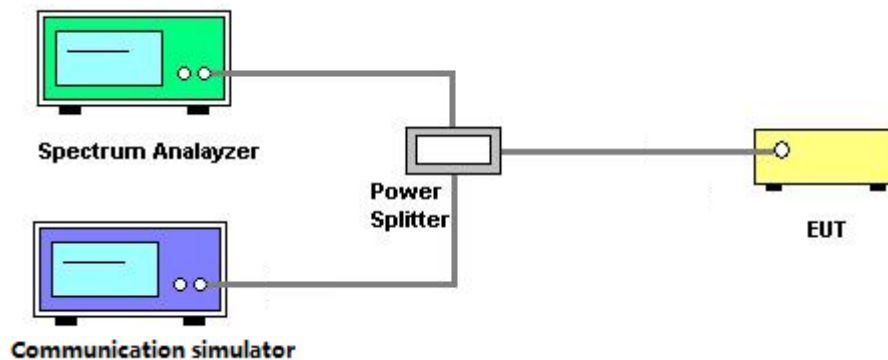
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX.

3.6 FREQUENCY STABILITY MEASUREMENT

3.6.1 LIMIT

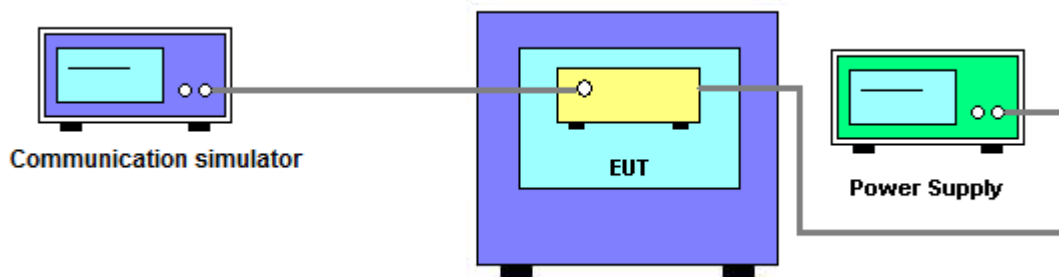
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX.

4. LIST OF MEASUREMENT EQUIPMENTS

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Temperature Chamber	WEISS	WKL64/40	56246014990010	May 24, 2022
2	High Speed Power Supply	KEITHLEY	2303	000500E	Dec. 20, 2022
3	Universal Radio Communication Tester	R&S	CMW500	167224	Sep. 27, 2022
4	Universal Radio Communication Tester	R&S	CMW500	169872	May 13, 2022
5	Universal Radio Communication Tester	R&S	CMW500	169873	May 13, 2022
6	Signal Analyzer	R&S	FSW26	102253	May 13, 2022
7	Signal Analyzer	R&S	FSW43	101998	May 13, 2022
8	Vector Signal Generator	R&S	SMW200A	109896	Sep. 27, 2022
9	Vector Signal Generator	R&S	SMW200A	109897	Sep. 27, 2022

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.