

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.: FYCR260700029603

Page: 1 of 25

TEST REPORT

Application No.: FYCR2607000296AT
Applicant: Vanstone Electronic (Beijing) Co., Ltd.
Address of Applicant: 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195
Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.
Address of Manufacturer: 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195
Equipment Under Test (EUT):
EUT Name: SoundBox
Model No.: Q191
Trade Mark: 
FCC ID: OWL-Q191
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
Date of Receipt: 2026-07-13
Date of Test: 2026-07-15 to 2026-09-03
Date of Issue: 2026-09-11

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.



Compliance Certification Services (Kunshan) Inc.
Shenzhen Branch

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-09-11		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Tree Zhan		
		Tree Zhan/Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(d) §27.50(h)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4) EIRP≤ 2W(LTE Band 7)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4) Refer to clause 6.4 for LTE Band7	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4) Refer to clause 6.5 for LTE Band7	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4) Refer to clause 6.6 for LTE Band7	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS

Remark: 47 CFR Part 2 is not accredited by A2LA.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC3.7V by li-ion battery(2000mAh) recharged by DC5V/1A power adapter Adapter M/N:SW-0018C Adapter Input:AC100-240V, 50/60Hz, 0.2A Adapter Output:DC5V/1A
Cable(s):	USB type C cable1: 0.6m unshielded cable without ferrite core USB type C cable2: 1.5m unshielded cable without ferrite core
Sample Type:	Portable product
LTE Operation Frequency Band:	LTE FDD Band 2,4,5,7
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE Band2:2.68dBi, Band4: 2.68dBi, Band5: 1.13dBi, Band7: 2.68dBi

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4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1753.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0



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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.4 Vdc
	VN	3.7 Vdc
	VH	4.2 Vdc

NOTE: VL= lower extreme test voltage
 VN= nominal voltage
 VH= upper extreme test voltage
 TL= lower extreme test temperature
 TN= normal temperature
 TH= upper extreme test temperature

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.28\%$
3	Occupied Bandwidth	$\pm 0.34\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 5.7\text{dB}$ (Below 1GHz)
		$\pm 4.7\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

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Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi- Anechoic Chambe	CRT	N/A	SEM001-13	2025-10-13	2028-10-12
MXE EMI receiver(20Hz-8.4GHz)	Agilent	N9038A	SEM004-05	2026-07-03	2027-07-02
Trilog-Broadband Antenna(25MHz-2GHz)	Schwarzbeck	VULB9168	SEM003-36	2025-09-03	2027-09-02
Pre-Amplifier	HP	8447D	SEM005-02	2026-07-07	2027-07-06
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM035-01	2026-05-12	2027-05-11
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-20	2025-12-23	2028-12-22
Signal Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2026-02-04	2027-02-03
Horn Antenna	Schwarzbeck	BBHA 9120 D	SEM003-54	2025-05-24	2028-05-23
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-11	2025-09-13	2028-09-12
Broad-Band Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-29	2028-07-28
Pre-amplifier(0.4GHz-8GHz)	TST	LNA04080G30	SEM005-27	2026-02-05	2027-02-04
Pre-amplifier(1GHz-18GHz)	TST	LNA10180G45	SEM005-28	2026-02-05	2027-02-04
Pre-amplifier(18GHz-40GHz)	TST	LNA180400G40	SEM005-39	2026-04-29	2027-04-28
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2025-09-10	2026-09-09

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2025-10-13	2028-10-12
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
MXA Signal Analyzer(10Hz-50GHz)	KEYSIGHT	N9020B	SEM004-24	2026-02-03	2027-02-02
MXA Signal Analyzer(20Hz-26.5GHz)	KEYSIGHT	N9020A	SEM004-25	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR
Coaxial Cable	SGS	N/A	SEM037-01	2026-05-12	2027-05-11
Manual Step Attenuator	Agilent	8494B	SEM021-05	2026-02-02	2027-02-01



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Manual Step Attenuator	Agilent	8496B	SEM021-06	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-08	2026-02-03	2027-02-02
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-04	2026-02-04	2027-02-03
DC Power Supply	Chroma	62024P-80-60	SEM011-09	2026-02-05	2027-02-04

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-52	2026-07-08	2027-07-07
Humidity/ Temperature Indicator	deli	8838	SEM002-53	2026-07-08	2027-07-07
Barometer	DUMAI	DYM3	SEM002-24	2026-07-10	2027-07-09



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(d), §27.50(h)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:
 ERP ≤ 7W (LTE Band 5)
 EIRP ≤ 2W (LTE Band 2)
 EIRP ≤ 1W (LTE Band 4)
 EIRP ≤ 2W (LTE Band 7)

Test Engineer: Lan Li

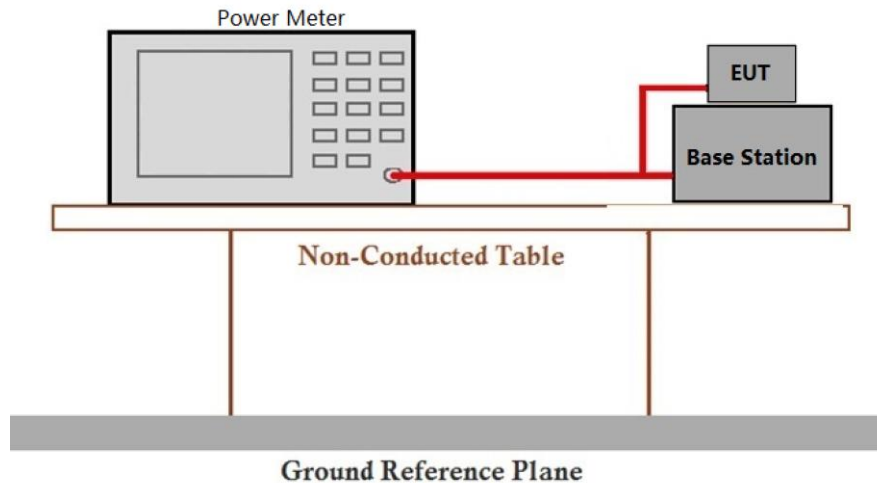
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



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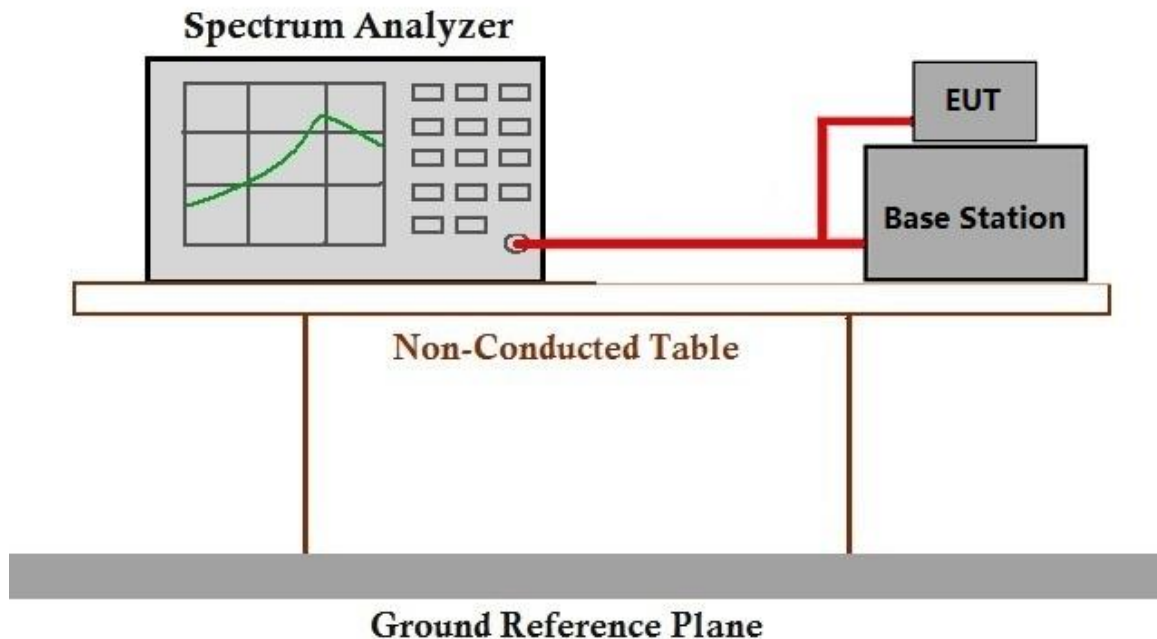
6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB
 Test Engineer: Lan Li

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for LTE test data.

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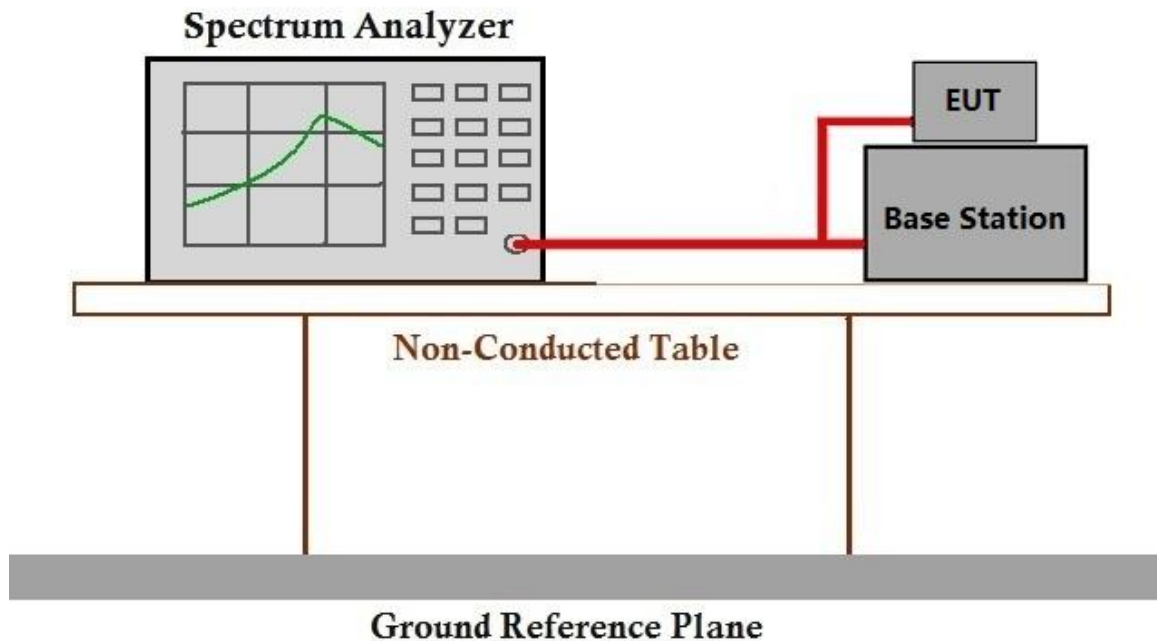
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit
 Test Engineer: Lan Li

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.4 Band Edge Compliance

Test Requirement: \$2.1051, \$22.917, \$24.238, \$27.50(h), \$27.50(m)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: $\leq -13\text{dBm}$ (**LTE Band2,4,5**)

For **Band7**:

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.

Test Engineer: Lan Li

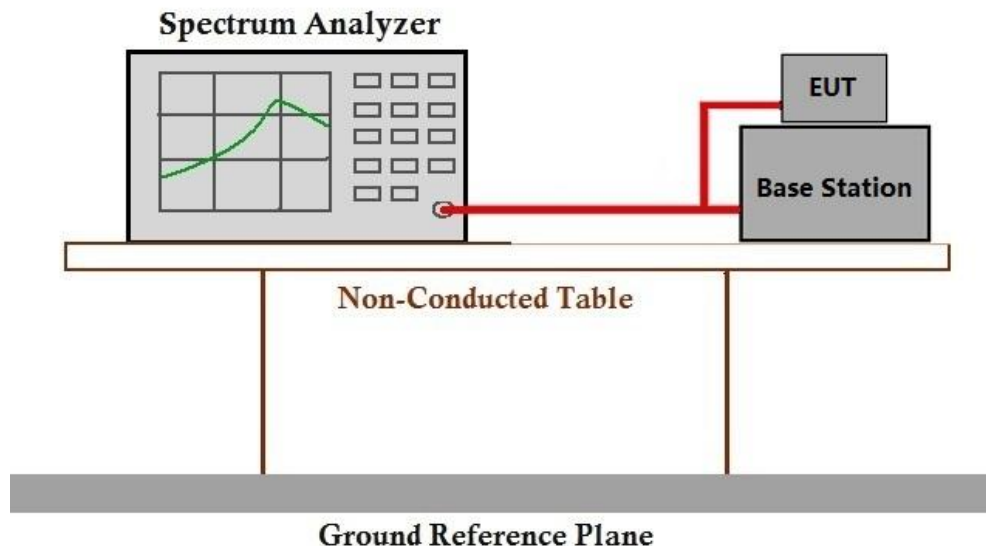
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238, §27.50(h), §27.50(m)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5**)

For **Band7**:

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.

Test Engineer: Lan Li

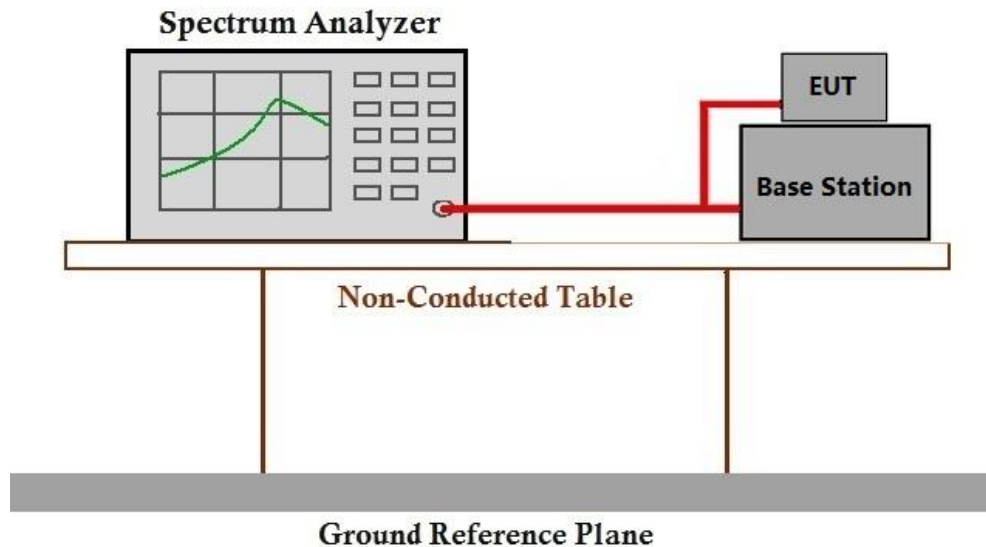
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.50(h), §27.50(m)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5**)

For **Band7**:

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.

Test Engineer: Rex Liu

6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

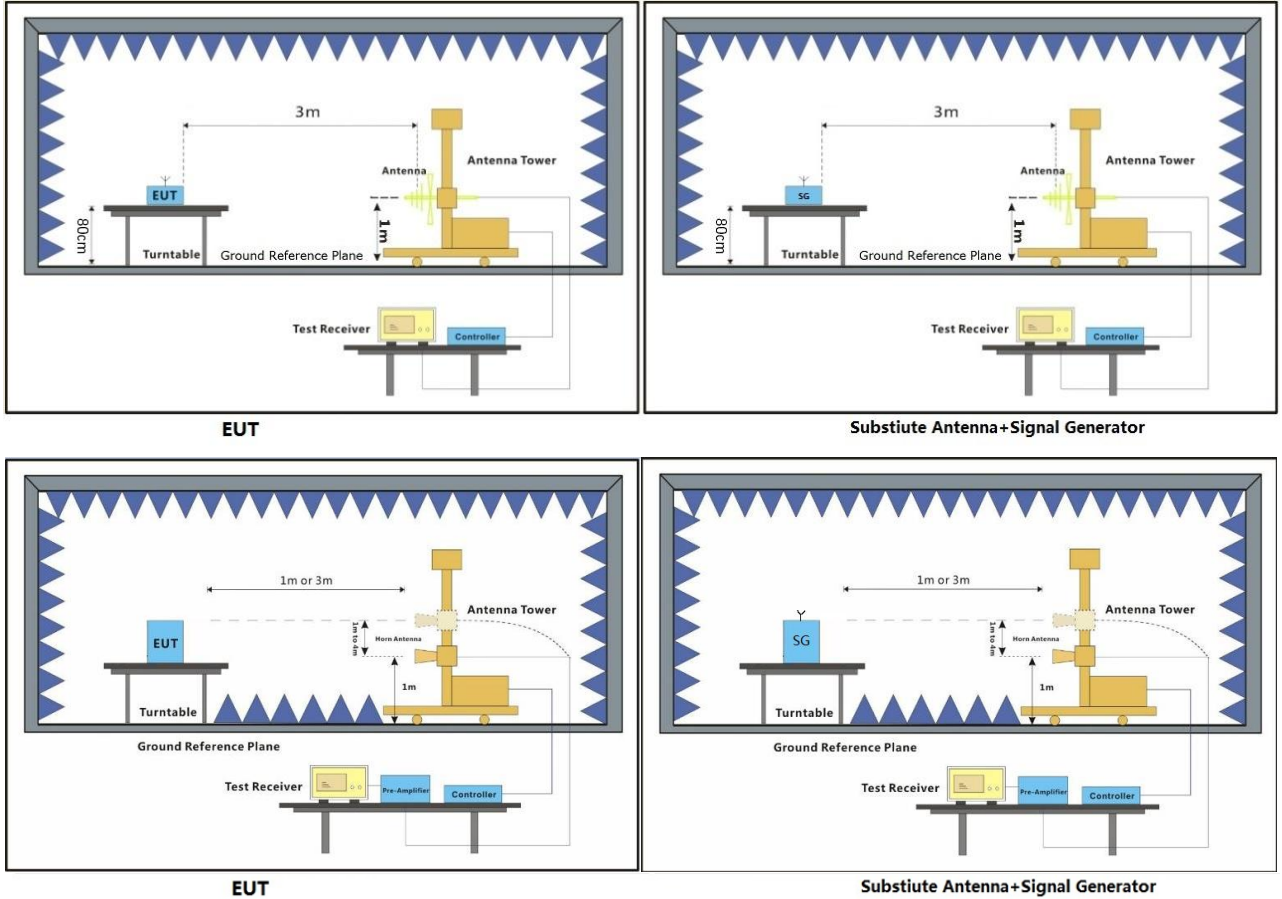
Test mode 30: Tx mode, Keep the EUT in transmitting mode.



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6.6.2 Test Setup Diagram



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702.0	-44.88	-13.00	-31.88	-49.13	4.54	8.79	Horizontal	Pass
5553.0	-44.54	-13.00	-31.54	-47.04	6.02	8.52	Horizontal	Pass
7404.0	-51.30	-13.00	-38.30	-55.79	6.03	10.52	Horizontal	Pass
3702.0	-44.07	-13.00	-31.07	-48.32	4.54	8.79	Vertical	Pass
5553.0	-46.81	-13.00	-33.81	-49.31	6.02	8.52	Vertical	Pass
7404.0	-51.07	-13.00	-38.07	-55.56	6.03	10.52	Vertical	Pass

LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742.0	-49.10	-13.00	-36.10	-53.10	4.55	8.55	Horizontal	Pass
5613.0	-43.89	-13.00	-30.89	-46.71	6.00	8.82	Horizontal	Pass
7484.0	-49.47	-13.00	-36.47	-54.26	6.01	10.80	Horizontal	Pass
3742.0	-49.06	-13.00	-36.06	-53.06	4.55	8.55	Vertical	Pass
5613.0	-41.99	-13.00	-28.99	-44.81	6.00	8.82	Vertical	Pass
7484.0	-46.29	-13.00	-33.29	-51.08	6.01	10.80	Vertical	Pass

LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782.0	-48.23	-13.00	-35.23	-52.30	4.56	8.63	Horizontal	Pass
5673.0	-47.04	-13.00	-34.04	-49.57	5.98	8.51	Horizontal	Pass
7564.0	-48.67	-13.00	-35.67	-53.54	6.01	10.88	Horizontal	Pass
3782.0	-47.28	-13.00	-34.28	-51.35	4.56	8.63	Vertical	Pass
5673.0	-53.97	-13.00	-40.97	-56.50	5.98	8.51	Vertical	Pass
7564.0	-48.57	-13.00	-35.57	-53.44	6.01	10.88	Vertical	Pass



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LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3425.7	-49.07	-13.00	-36.07	-53.31	4.41	8.65	Horizontal	Pass
5134.3	-48.50	-13.00	-35.50	-51.40	5.63	8.53	Horizontal	Pass
8563.8	-48.37	-13.00	-35.37	-53.62	6.06	11.31	Horizontal	Pass
5134.3	-44.77	-13.00	-31.77	-47.67	5.63	8.53	Vertical	Pass
6835.3	-47.34	-13.00	-34.34	-51.63	6.07	10.36	Vertical	Pass
8563.8	-47.31	-13.00	-34.31	-52.56	6.06	11.31	Vertical	Pass

LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3445.5	-46.67	-13.00	-33.67	-50.85	4.43	8.61	Horizontal	Pass
6894.8	-50.70	-13.00	-37.70	-55.46	6.08	10.84	Horizontal	Pass
8613.5	-48.17	-13.00	-35.17	-53.80	6.02	11.65	Horizontal	Pass
3445.5	-45.81	-13.00	-32.81	-49.99	4.43	8.61	Vertical	Pass
5164.1	-45.87	-13.00	-32.87	-48.68	5.66	8.47	Vertical	Pass
8613.5	-47.89	-13.00	-34.89	-53.52	6.02	11.65	Vertical	Pass

LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3475.5	-50.14	-13.00	-37.14	-54.42	4.47	8.75	Horizontal	Pass
5209.1	-47.93	-13.00	-34.93	-50.66	5.71	8.44	Horizontal	Pass
8688.5	-44.39	-13.00	-31.39	-50.30	5.97	11.88	Horizontal	Pass
5209.1	-42.41	-13.00	-29.41	-45.14	5.71	8.44	Vertical	Pass
6934.8	-47.63	-13.00	-34.63	-52.16	6.09	10.62	Vertical	Pass
8688.5	-46.60	-13.00	-33.60	-52.51	5.97	11.88	Vertical	Pass



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LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-33.77	-13.00	-20.77	-35.82	3.64	5.69	Horizontal	Pass
2473.5	-53.14	-13.00	-40.14	-56.54	3.78	7.18	Horizontal	Pass
3298.0	-56.99	-13.00	-43.99	-61.49	4.28	8.78	Horizontal	Pass
1649.0	-38.93	-13.00	-25.93	-40.98	3.64	5.69	Vertical	Pass
2473.5	-45.88	-13.00	-32.88	-49.28	3.78	7.18	Vertical	Pass
3298.0	-56.66	-13.00	-43.66	-61.16	4.28	8.78	Vertical	Pass

LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-36.36	-13.00	-23.36	-38.48	3.64	5.76	Horizontal	Pass
2496.0	-44.80	-13.00	-31.80	-48.47	3.78	7.45	Horizontal	Pass
3328.0	-57.29	-13.00	-44.29	-61.78	4.31	8.80	Horizontal	Pass
1664.0	-38.10	-13.00	-25.10	-40.22	3.64	5.76	Vertical	Pass
2496.0	-45.39	-13.00	-32.39	-49.06	3.78	7.45	Vertical	Pass
3328.0	-57.94	-13.00	-44.94	-62.43	4.31	8.80	Vertical	Pass

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-38.37	-13.00	-25.37	-40.54	3.65	5.82	Horizontal	Pass
2518.5	-49.03	-13.00	-36.03	-52.75	3.78	7.50	Horizontal	Pass
3358.0	-62.10	-13.00	-49.10	-66.53	4.35	8.78	Horizontal	Pass
1679.0	-37.81	-13.00	-24.81	-39.98	3.65	5.82	Vertical	Pass
2518.5	-49.18	-13.00	-36.18	-52.90	3.78	7.50	Vertical	Pass
3358.0	-62.63	-13.00	-49.63	-67.06	4.35	8.78	Vertical	Pass



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LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7497.6	-48.84	-25.00	-23.84	-53.63	6.01	10.80	Horizontal	Pass
10010.4	-31.23	-25.00	-6.23	-36.72	6.42	11.91	Horizontal	Pass
12505.7	-43.35	-25.00	-18.35	-49.05	7.11	12.81	Horizontal	Pass
7497.6	-45.30	-25.00	-20.30	-50.09	6.01	10.80	Vertical	Pass
10010.4	-36.35	-25.00	-11.35	-41.84	6.42	11.91	Vertical	Pass
12505.7	-40.40	-25.00	-15.40	-46.10	7.11	12.81	Vertical	Pass

LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5046.1	-48.18	-25.00	-23.18	-51.02	5.53	8.37	Horizontal	Pass
7584.8	-44.92	-25.00	-19.92	-49.92	6.01	11.01	Horizontal	Pass
10097.6	-31.19	-25.00	-6.19	-36.75	6.44	12.00	Horizontal	Pass
7584.8	-46.60	-25.00	-21.60	-51.60	6.01	11.01	Vertical	Pass
10097.6	-38.72	-25.00	-13.72	-44.28	6.44	12.00	Vertical	Pass
12614.6	-48.10	-25.00	-23.10	-53.99	7.04	12.93	Vertical	Pass

LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5104.7	-42.93	-25.00	-17.93	-45.92	5.60	8.59	Horizontal	Pass
10215.0	-30.35	-25.00	-5.35	-36.33	6.47	12.45	Horizontal	Pass
12761.3	-41.57	-25.00	-16.57	-47.84	6.95	13.22	Horizontal	Pass
5104.7	-43.13	-25.00	-18.13	-46.12	5.60	8.59	Vertical	Pass
10215.0	-32.62	-25.00	-7.62	-38.60	6.47	12.45	Vertical	Pass
12761.3	-42.65	-25.00	-17.65	-48.92	6.95	13.22	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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6.7 Frequency stability

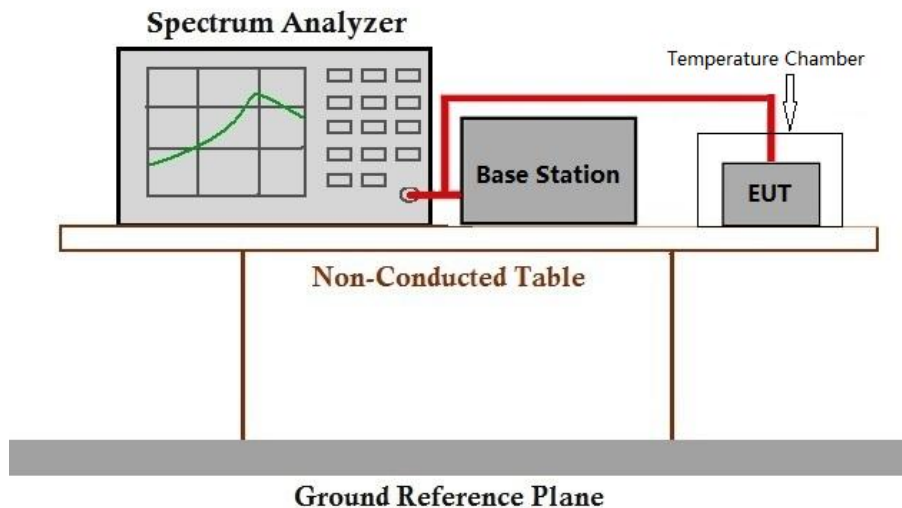
Test Requirement: \$2.1055,\$22.355,\$24.235,\$27.54
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq \pm 2.5\text{ppm}$.
 Test Engineer: Lan Li

6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar
 Test mode 30: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2607000296AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2607000296AT

- End of the Report -



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