# **Verykool USA Inc GSM/GPRS Tri-band Mobile Phone** Model: R700 22 November, 2011 Report No.: 11070093-FCC Part 15 B (This report supersedes NONE) **U** 12 10 0 EMIC, INC. Modifications made to the product : None This Test Report is Issued Under the Authority of: ers. Lin Back Unum **Back Huang** Alex Liu **Compliance Engineer Technical Manager** This test report may be reproduced in full only. Test result presented in this test report is applicable to the representative sample only.

TO: FCC Part 15 Subpart B Class B: 2011

#### SIEMIC, INC. Accessing global markets EMC Test Report for GSM/GPRS Tri-band Mobile Phone Title: Model: R700 FCC Part 15 B:2011

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## **Laboratory Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

#### Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC , RF/Wireless , Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless , Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom , Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF , Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC , RF/Wireless, Telecom
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### Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC , RF , Telecom
Canada	IC FCB , NIST	EMC , RF , Telecom
Singapore	iDA, NIST	EMC , RF , Telecom
EU	NB	EMC & R&TTE Directive



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## 1 Executive Summary & EUT information

The purpose of this test programme was to demonstrate compliance of the Verykool USA Inc and model: R700 against the current Stipulated Standards. The GSM/GPRS Tri-band Mobile Phone has demonstrated compliance with the FCC Part 15 B:2011.

### EUT Information

EUT Description	: GSM/GPRS Tri-band Mobile Phone
Model No	: <b>R700</b>
Serial No Input Power	<ul> <li>N/A</li> <li>Powered by Power Adapter:</li> <li>Trade Name :Power Supply</li> <li>Model No.:A361-0500600U</li> <li>Input: 100-240V-50/60Hz, 0.2A</li> <li>Output: 5.0V-600mA</li> <li>Li-ion Battery:</li> <li>Trade Name :verykool</li> </ul>
Classification Per Stipulated	Model:454461AR Spec:3.7V 1400mAh(5.18Wh) Limited charger voltage:4.2V : FCC Part 15 B:2011
Test Standard	

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## 2 TECHNICAL DETAILS

Purpose	Compliance testing of GSM/GPRS Tri-band Mobile Phone model R700 with stipulated standard
Applicant / Client	Verykool USA Inc 4350 Executive Dr.#100,San Diego Postal Code: CA92121
Manufacturer	Verykool Wireless Technology Ltd Room 1701, Reward Building C, No.203, 2nd Section of WangJing, Li Ze Zhong Yuan, ChaoYang District, Beijing, P.R. of China 100102
Laboratory performing the tests	SIEMIC Nanjing (China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email:info@siemic.com
Test report reference number	11070093-FCC Part 15B
Date EUT received	3 November, 2011
Standard applied	FCC Part 15 B:2011
Dates of test	4 November,2011~22 November,2011
No of Units :	#1
Equipment Category :	Class B Emission Product
Trade Name :	Verykool
Model :	R700
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz RX :869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz RX :1930.2 ~ 1989.8 MHz UMTS Band V TX : 826.4 ~ 846.6 MHz RX :871.4 ~ 891.6 MHz BT: 2402MHz-2480MHz WIFI:2.4GHz band: 802.11b/g: 2412MHz-2462MHz
Number of Channels :	300 (PCS1900) and 125 (PCS850) BT: 79CH WIFI:2.4GHz band: 802.11b/g-20MHz 11CH
Modulation :	GSM / GPRS/ EGPRS : GMSK, 8PSK WCDMA:QPSK BT: GFSK WIFI:DSSS
FCC ID :	WA6R700





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#### 3 **MODIFICATION**

NONE

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## 4 TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

**Class B Emission Product** 

#### **Test Results Summary**

Emissions					
Test Standard     Description     Product Class     Pass / Fail					
FCC Part 15 B:20111	AC Line Conducted Emissions	See Above	Pass		
FCC Part 15 B:2011	Radiated Emissions	See Above	Pass		

All measurement uncertainty is not taken into consideration for all presented test result.

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23ºC

50%

1009mbar

#### **MEASUREMENTS, EXAMINATION AND DERIVED RESULTS** 5

## 5.1 AC Line Conducted Emissions Test Result

Note:

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- "Ave" margin indicates a PASS as it refers to the margin present below the limit line at the 2. particular frequency.
- 3. Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz - 30MHz (Average & Quasi-peak) is ±3.86dB.
- **Environmental Conditions** 4. Temperature **Relative Humidity** Atmospheric Pressure

Test date :20 November, 2011 5. Tested By : Back Huang

#### Test result: Pass

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### Worst Case:



#### Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.170	55.447	65.129	-9.682	37.185	55.129	-17.944	10.356
0.286	50.049	60.725	-10.676	41.591	50.725	-9.134	10.204
0.554	44.671	56.000	-11.329	35.662	46.000	-10.338	10.157
3.562	44.472	56.000	-11.528	32.113	46.000	-13.887	10.374
1.162	44.188	56.000	-11.812	34.888	46.000	-11.112	10.166
1.694	44.150	56.000	-11.850	29.954	46.000	-16.046	10.188



#### Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.186	54.187	64.368	-10.181	42.496	54.368	-11.872	10.321
0.278	50.358	60.966	-10.608	44.915	50.966	-6.051	10.212
3.450	44.559	56.000	-11.441	29.931	46.000	-16.069	10.339
3.570	44.547	56.000	-11.453	29.581	46.000	-16.419	10.377
3.362	44.544	56.000	-11.456	32.682	46.000	-13.318	10.312
1.186	44.458	56.000	-11.542	27.618	46.000	-18.382	10.167



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#### **Radiated Emissions Test Result** 5.2

Note:

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 3. Radiated Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 1GHz (QP only @ 3m & 10m) is +5.6dB/-4.5dB (for EUTs < 0.5m X 0.5m X 0.5m).
- Environmental Conditions Temperature 4.

Relative Humidity Atmospheric Pressure 23°C 50% 1009mbar

Test date :20 November, 2011 5. Tested By : Back Huang



### 5.2.1 Test Result Complying For FCC Part 15 B:2011

#### Worst Case:

### Test mode: Charging & Downloading Music



#### Test Data

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
481.89	33.45	167.00	Н	224.00	-25.96	46.00	-12.55
494.02	42.20	178.00	Н	167.00	-25.93	46.00	-3.80
239.26	30.21	1.00	Н	139.00	-31.46	46.00	-15.79
454.42	33.02	141.00	V	157.00	-27.09	46.00	-12.98
459.74	35.11	138.00	V	168.00	-26.94	46.00	-10.89
63.70	31.84	162.00	Н	300.00	-38.17	40.00	-8.16

Note: The data above 1 GHz which below 20 dB to the limit was not recorded.

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## Test mode: GPS Receiving



**Below 1GHz** 

#### Test Data

Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H /V)	Height (cm)	Factors (dB)	Limit (dBuV/m)	Margin (dB)
31.58	30.48	169.00	V	132.00	-25.10	40.00	-9.52
77.82	20.65	166.00	V	142.00	-37.83	40.00	-19.35
82.24	17.01	158.00	V	140.00	-37.18	40.00	-22.99
937.30	27.55	146.00	V	307.00	-15.56	46.00	-18.45
945.22	28.83	340.00	V	248.00	-15.50	46.00	-17.17
904.85	26.67	185.00	Н	395.00	-15.16	46.00	-19.33

Note: The data above 1 GHz which below 20 dB to the limit was not recorded.



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### Annex A. TEST INSTRUMENT & METHOD

#### Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Calibration Date	Calibration Due Date
AC Conducted Emissions			
R&S EMI Test Receiver	ESPI3	05/25/2011	05/25/2012
R&S LISN	LI-115	05/25/2011	05/25/2012
R&S LISN	LI-115	05/25/2011	05/25/2012
Universal Radio Communication Tester	CMU200	02/22/2011	02/22/2012
Radiated Emissions			
Spectrum Analyzer	8563E	01/10/2011	01/10/2012
EMI Receiver	ESPI3	05/18/2011	05/18/2012
Antenna(1 ~18GHz)	3115	6/2/2011	6/2/2012
Antenna (30MHz~2GHz)	JB1	05/25/2011	05/25/2012
Chamber	3m	4/13/2011	4/13/2012
Pre-Amplifier(1 ~ 18GHz)	AMF-7D-00101800-30-10P	5/25/2011	5/25/2012
Horn Antenna (18~40GHz)	AH-840	7/23/2011	7/23/2013
Microwave Pre-Amp (18~40GHz)	PA-840	Every 2000 Hours	
Universal Radio Communication Tester	CMU200	02/22/2011	02/22/2012
Signal Analyzer	8665B	1/21/2011	1/21/2012
Temperature/Humidity Chamber	1007H	06/08/2011	06/08/2012
GPS SIGNAL GENERATOR	MSG-2041	05/25/2011	05/25/2012

Note: Functional Verification



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#### Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

#### **Test Set-up**

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in <u>Annex B</u>.
- 2. The power supply for the EUT was fed through a  $50\Omega/50\mu$ H EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.

#### Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 KHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

#### Sample Calculation Example

At 20 MHz	limit = 250 $\mu$ V = 47.96 dB $\mu$ V
Transducer factor of LISN, pulse limiter & cable loss at 20 MHz =	11.20 dB
Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu$ V (Calibrated for	system losses)
Therefore, Q-P margin = 47.96 – 40.00 = 7.96	i.e. 7.96 dB below limit



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#### Annex A.iii. RADIATED EMISSIONS TEST DESCRIPTION

#### EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS).

#### Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.







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#### Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.

3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

#### Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.

2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.

3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.

4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from  $0 \circ to 360 \circ with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.$ 

5. Repeat step 4 until all frequencies need to be measured were complete.

6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

#### Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows: Peak = Reading + Corrected Factor

P

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note:

where

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.



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Annex B. TEST SETUP AND SUPPORTING EQUIPMENT

### EUT TEST CONDITIONS

#### Annex B. i. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
Gateway Laptop	MS2288 & LXWHF02013951C3CA92200	N/A



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### Block Configuration Diagram for Conducted Emission Mode:Charging &Downloading Music









### Test mode: GPS Receiving



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#### Annex B.ii. **EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation	
	Mode 1:Charging & Downloading Music	
Emissions Testing	Mode 2:Charging & FM Receiving	
	Mode 3:Charging & Media Playing	
	Mode 4: Charging & GPS Receiving	

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## Annex C. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment





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### Annex D. SIEMIC ACCREDITATION CERTIFICATES

SIEMIC ACCREDITATION DETAILS: FCC Registration NO:986914

### LABORATORY RECOGNITION



**Presented To:** 

## SIEMIC (NANJING) INFOTECH CO. LTD.

## **Nanjing Laboratories**

2-1 Longcang Avenue, Yuhua Economic Development Zone Nanjing, Jiangsu Province, People's Republic of China

This is to certify that SIEMIC Nanjing Laboratories has been assessed per ISO 17025 and listed as SIEMIC Recognized Laboratory for acceptance of Test **Reports for TCB Certifications for** the following scopes:

FCC Unlicensed Scope A1, A2, A3, A4 FCC Licensed Scope B1, B2, B3

Leslie Bai **Director of Certification** 

This certificate of recognition is valid through December 31, 2011

2206 Ringwood Avenue, San Jose, California 95131 U.S.A dare 1 (40 April 25 Th Rev Fax Non A Transaction 10687, were water it To.



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## SIEMIC ACCREDITATION DETAILS: FCC Listing, Registration NO:986914 FEDERAL COMMUNICATIONS COMMISSION Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046 April 19, 2011 Registration Number: 986914 SIEMIC Nanjing (China) Laboratories 2-1 Longcang Avenue, Yuhua Economic and Technology Development Park, Nanjing, 210039 China Leslie Bai, Attention: Re: Measurement facility located at 2-1 Longcang Avenue, Nanjing, China Anechoic chamber (3 meters) and 3&10 meter OATS Date of Renewal: April 19, 2011 Dear Sir or Madam: Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years. Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website <u>www.fcc.gov</u> under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms. Sincerely, Phyllis Parrish Industry Analyst

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### SIEMIC ACCREDITATION DETAILS: Industry of Canada Registration No. 4842 Canada Canada January 25, 2011 OUR FILE: 46405-4842 Submission No: 145222 Siemic Nanjing (China) Laboratories 2-1 Longcang Avenue Yuhua Economic & Technology Dev. Park, Nanjing China Attention: Leslie Bai Dear Sir/Madame: The Bureau has received your application for the registration of a 3/10m OATS. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought ( Site# 4842B-2 ). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information; - The company address code associated to the site(s) located at the above address is: 4842B Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted. The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL; http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h\_tt00052e.html. If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence. Yours sincerely. Delainderfill Dahwinder Gill For: Wireless Laboratory Manage Certification and Engineering Bureau 3701 Carling Ave., Building 94 P.O. Box 11490, Station "H Ottawa, Ontario K2H 8S2 Email: dalwinder.gill@ic.gc.ca Tel. No. (613) 998-8363 Fax. No. (613) 990-4752