

Test Report Serial No.:	090814AMW-T1308-E95D	-
Measurement Date(s):	07/08/2014-11/08/2014	•
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	



COMPLIANCE TEST R	EPORT	FCC PART 95 RSS-236	D	EMC/RF MEASUREMENT REPORT			
Test Lab Information	Name	CELLTECH LABS INCO	CELLTECH LABS INCORPORATED				
Test Lab IIIIOTHIation	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada					
Test Lab Accreditation(s)	A2LA	ISO 17025:2005 (A2LA T	est Lab (Certificate No. 2470.01)			
Test Site Registration No.	FCC	Accredited Site					
rest one Registration No.	IC	3874A-1					
A - Post Alagoria de la	Name	UNIDEN AMERICA COR	PORATI	ON			
Applicant Information	Address	6225 North State Highway 161, Suite 300 Irving, Texas 75038					
Measurement Standard(s)	FCC Ind. Can.	47 CFR Part 95 Subpart D RSS-236					
& Procedure(s) Applied	ANSI	TIA/EIA-382-A C63.4-2003					
Device Classification(s)	FCC/IC	Licensed Non-Broadcast Station Transmitter (TNF)					
Device RF Exposure Category	FCC	Mobile					
Device Identifier(s)	FCC ID: Ind. Can.	AMWUT563 513C-UT563					
Application Type	FCC/IC	Certification					
Device Under Test (DUT)	Mobile CB Ra	adio Transceiver with weat	her alert.				
Device Model	BC980SSBW	I					
Test Sample Serial No.(s)	TA Sample -	· Identical Prototype					
Transmit Frequency Range(s)	26.965 - 27.4	105 MHz					
Channels	1-40						
Rated MAX. TX Power	4W AM, 12 F	12 PEP SSB.					
Modulation Type(s)	AM, SSB.	SB.					
Emission Designator(s)	6K00A3E, 3k	00A3E, 3K00J3E					
Antenna	External Whi	p, 0dBi nominal (3dBi maxi	mum).				
Power Source(s) Tested	DC Power Su	upply (13.8 V)					

This wireless device has demonstrated compliance with the applicable technical standards indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, Part 15B and Part 95D,RSS-236, RSS-GEN ANSI TIA/EIA-382-A and ANSI C63.4-2003.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results and statements contained in this report pertain only to the device(s) evaluated.

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Test Report Approved By Glen Westwell 8/21/2014 Celltech Labs Inc.

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Unideni
DUT Type:		AM Mobile CB Radio Tr	ransceiver. Frequency Range:		26.965 - 27.405 MHz			
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Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:		AM Mobile CB Radio Tr	ansceiver. Frequency Range:		cy Range:	26.965 - 27.405 MHz		
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TEST SUMMARY								
	Referenced Standard(s):	FCC	CFR Title 47 Parts 2	2, 95(D), 15(B)				
Appendix	Description of Test	Procedure Reference	<u>Limit Reference</u>	Date of compliance test verification	Result			
Α	Conducted Power	ANSI/TIA/EIA-382-A	§2.1033, 95 RSS-236	8/21/2014	Pass			
В	Modulation & PEP Limiting	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	8/21/2014	Pass			
С	Audio Frequency Response	ANSI/TIA/EIA-382-A	§2.1047, 95 RSS-236	8/21/2014	Pass			
D	Occupied Bandwidth and Emission Mask	ANSI/TIA/EIA-382-A	§2.1049, 95 RSS-236	8/21/2014	Pass			
E	Conducted TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	8/21/2014	Pass			
F	Radiated TX Spurious Emissions	ANSI/TIA/EIA-382-A	§2.1053, 95 RSS-236	8/21/2014	Pass			
Г	Radiated Spurious Emissions	ANSI C63.4:2003	§15 Subpart B ICES-003	8/21/2014	Pass			
G	Frequency Stability	ANSI/TIA/EIA-382-A	§2.1055, 95 RSS-236	8/21/2014	Pass			

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.	nnsceiver. Frequency Range:		26.965 - 27.405 MHz		
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REVISION LOG

Revision	Description	Implemented By	Implementation Date
1.0	1st Release	Glen Westwell	8/21/2014
1.1	Corrected test equipment cal data.		8/21/2014

Test Report Prepared By	Date	QA Review By	Date
Glen Westwell	8/21/2014	Art Voss	8/21/2014

Applicant:	Unide	en America Corporation	Ind. Can.: 513C-U1563			Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
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1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Uniden America Corporation CB Radio Transceiver FCC/IC: AMWUT563/513C-UT563. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication's Commission Code of Federal Regulations Title 47 Part 2, Part 95 Subpart D and RSS-236.

2.0 REFERENCES

2.1 Normative References

ANSI/ISO 17025:2005 General Requirements for competence of testing and calibration laboratories

IEEE/ANSI C63.4:2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9 kHz to 40 GHz

ANSI/TIA/EIA-382-A Citizens Band Radio Service Amplitude Modulated (AM) Transceivers Operating in the 27 MHz Band

CFR Title 47 Part 2 Code of Federal Regulations

Title 47: Telecommunication

Part 2: Frequency Allocations and Radio Treaty Matters;

General Rules and Regulations

CFR Title 47 Part 95 Code of Federal Regulations

Title 47: Telecommunication
Part 95: Personal Radio Services

Subpart D - Citizens Band (CB) Radio Service

Industry Canada RSS-236, RSS-GEN

3.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Applicant:	Unide	n America Corporation	FCC ID: AMWU Ind. Can.: 513C-U			Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
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4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with Industry Canada under File Number IC 3874A-1. Celltech test site is listed with the FCC as an accredited test facility.

5.0 GENERAL INFORMATION

5.1 DUT Description & Specifications

Device Type:	Mobile CB Radio Transceiver with weather alert.			
Device Model(s):	BC980SSBW			
Test Sample Serial No.:	T/A Sample - Identical Prototype			
Device Identifier(s):	FCC ID: AMWUT563 513C-UT563			
Transmit Frequency Range:	26.965 - 27.405 MHz (Chan. 1-40)			
No. of Channels:	40			
Manuf. Max. Rated Output Power:	4W AM, 12W(PEP) SSB.			
Antenna Gain:	External Whip, 0dBi nominal (3dBi maximum).			
Modulation:	AM, SSB			
Emission Designator:	6k00A3E 2K70J3E Bn = 2M Bn = M - M1 M = 3000 M1 = 300 Bn = 6000 Bn = 2700			
DUT Power Source:	12 VDC Battery, DC Power Supply (13.8 V)			
Type of Equipment:	Licensed Non-Broadcast Station Transmitter (TNB)			
Deviation(s) from standard/procedure:	None			
Modification of DUT:	None			
Applicable Standards:	EIA/TIA-382-A, FCC CFR 47 Part 95, RSS-GEN, RSS-236			

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:	Ind. Can.: 513C-UT56		Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:	AM Mobile CB Radio Transceiver.		ansceiver.		Frequer	ncy Range:	26.965 - 27.405 MHz	
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Appendix A RF Output Power Measurement

A.1 REFERENCES

Normative Reference Standard FCC CFR 47 §2.1046, §95D, RSS-236

A.2 LIMITS

§95.639 RSS-236, 5.2 4W, 12w(PEP).

A.3 ENVIRONMENTAL CONDITIONS					
Temperature	15 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE
00110	Gigatronics	8652A	Power Meter	17-Feb-14 /17-Feb-16
00248	Gigatronics	80334A	Power Sensor	17-Feb-14 /17-Feb-16

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 UT563	Model(s):	Bearcat 980SSBW	Uniden
DUT Type:	AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz		
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Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236 RSS GEN	Test Site Registration(s):	FCC Accredited Site



A.4 TEST RESULTS: COMPLIES

Method of Measurement: RF power is measured by connection a 50-ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage, and the transmitter properly adjusted, the RF output power measures:

Test Data:

Output power: AM = 4.0 Watts

SSB = 12W(PEP)

Part 2.1033(c)(8), DC input to the final amplifier

Input power: $(13.8 \text{Vdc})(\bar{1.6A}) = 22.08 \text{Watts}$.

A.5 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

D. Whiel

Glen Westwell Lab Manager Celltech Labs Inc.

8/21/2014

Date

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver.			Frequen	cy Range:	26.965 - 27.405 MHz	
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Appendix B Modulation Characteristics (Modulation Limiting & PEP Limiting for SSB operation)

D 4	DEI	EED	EN	CEC
B.1	REI	FER	EN	CES

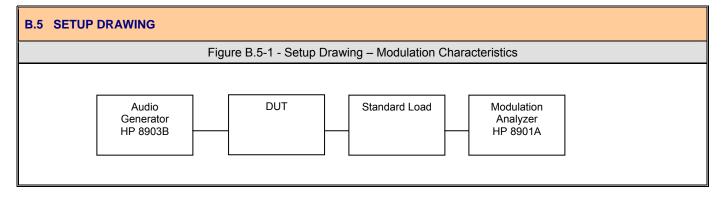
Normative Reference Standard FCC CFR 47 §2.1047, Part 95D, 95.637, RSS-236, 5.3.2

B.2 LIMITS

FCC §2.1047 Modulation can not exceed 100% - Modulation Limiting. 12W - PEP limiting, SSB.

B.3 ENVIRONMENTAL CONDITIONS				
Temperature	15 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

B.4 EQUIPMENT LIST						
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE		
00028	HP	8901A	Modulation Analyzer	21-Dec-12 / 21-Dec-14		
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-14		



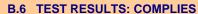
Note: Balanced tones used for SSB operation: 500 Hz & 2400 Hz.

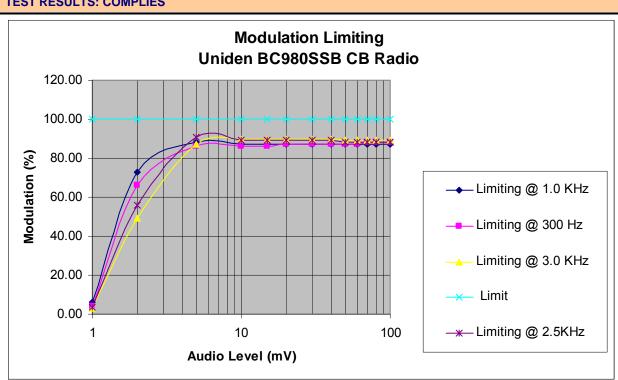
Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
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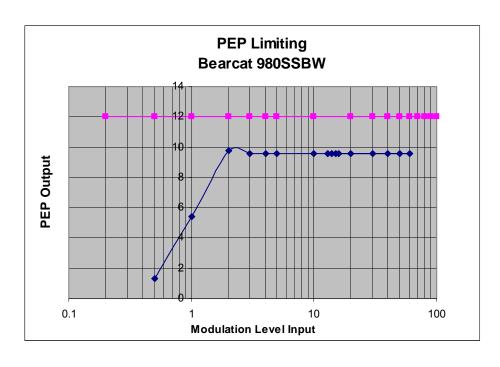


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Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN









B.7 SIGN-OFF

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden
DUT Type:	AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz		
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Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell
Lab Manager
Celltech Labs Inc.

8/21/2014

Date

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden
DUT Type:		AM Mobile CB Radio Transceiver.		Frequer	cy Range:	26.965 - 27.405 MHz		
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8/21/2014

FCC Accredited Site



Appendix C Modulation Characteristics (Audio Frequency Response & Low Pass Filter)

C.1 REFERENCI	

Normative Reference Standard FCC CFR 47 §2.1047, TIA/EIA-382-A, Para 25.

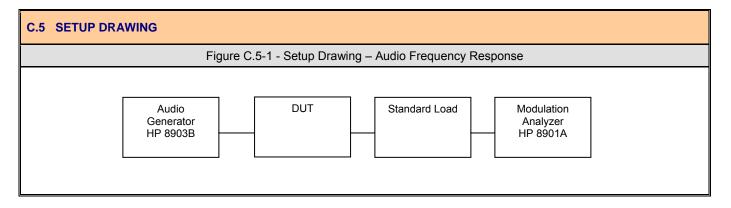
C.2 LIMITS

FCC §2.1047

a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.

C.3 ENVIRONMENTAL CONDITIONS				
Temperature	25 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

C.4 EQUIPMENT LIST							
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE			
00028	HP	8901A	Modulation Analyzer	21-Dec-12 / 21-Dec-14			
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-14			



Applicant: Uniden America Corporation FCC ID: Ind. Can.: AMWUT563 513C-UT563 Model(s): Bearcat 980SSBW						Uniden°	
DUT Type: AM Mobile CB Radio Transceiver. Frequency Range: 26.965 - 27.405 MHz							
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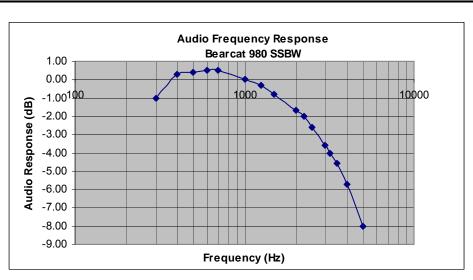
Test Report Issue Date: 8/21/2014
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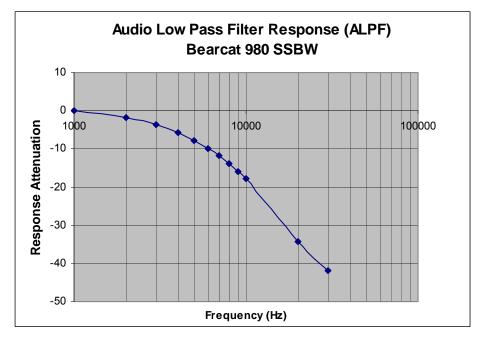
FCC Accredited Site

Test Site Registration(s):









C.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

D. Water

Glen Westwell Lab Manager

Celltech Labs Inc, 2 May 2014

Applicant:	Unide	Uniden America Corporation FCC ID: AMWUT563 Ind. Can.: 513C-UT563 Model(s): Bearcat 980SSBW						
DUT Type:	ype: AM Mobile CB Radio Transceiver. Frequency Range: 26.965 - 27.405 MHz						Uniden°	
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	Appendix D	Occupied	Bandwidth a	and Emi	ssion Mas	sk
--	------------	----------	-------------	---------	-----------	----

D.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.1049, §95.635, RSS-236, 5.4.4
Procedure Reference / Description	Occupied bandwidth was performed by connecting the output of the DUT to the input of a spectrum analyzer. The unit was supplied a 2500Hz audio signal adjusted to 50% plus 16dB.

D.2 LIMITS	
	At least 25 dB (decibels) on any frequency removed from the center of the authorized bandwidth by more than 50% up to and including 100% of the authorized bandwidth.
§95.635 RSS-236, 5.4.4	At least 35 dB on any frequency removed from the center of the authorized bandwidth by more than 100% up to and including 250% of the authorized bandwidth.
	At least 53 + 10 $\log_{10}(T)$ dB on any frequency removed from the center of the authorized bandwidth by more than 250%.

D.3 ENVIRONMENTAL CONDITIONS					
Temperature	10 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

D.4 EQUIPMENT	D.4 EQUIPMENT LIST								
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE					
00241	R&S	FSP40	Spectrum Analyzer	(first cal cycle) / 04/09/2015					
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-2014					

D.5 SETUP DRAWING								
	Figure [D.5-1 - Setup Drawing -	- Occupied Bandwidth & E	Emission Mask				
	Audio Generator HP 8903A	DUT	Standard Load	Spectrum Analyzer				

Applicant:	Unide	n America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563			Model(s):	Bearcat 980SSBW	Unideni
DUT Type:	AM Mobile CB Radio Transceiver.				Frequer	cy Range:		
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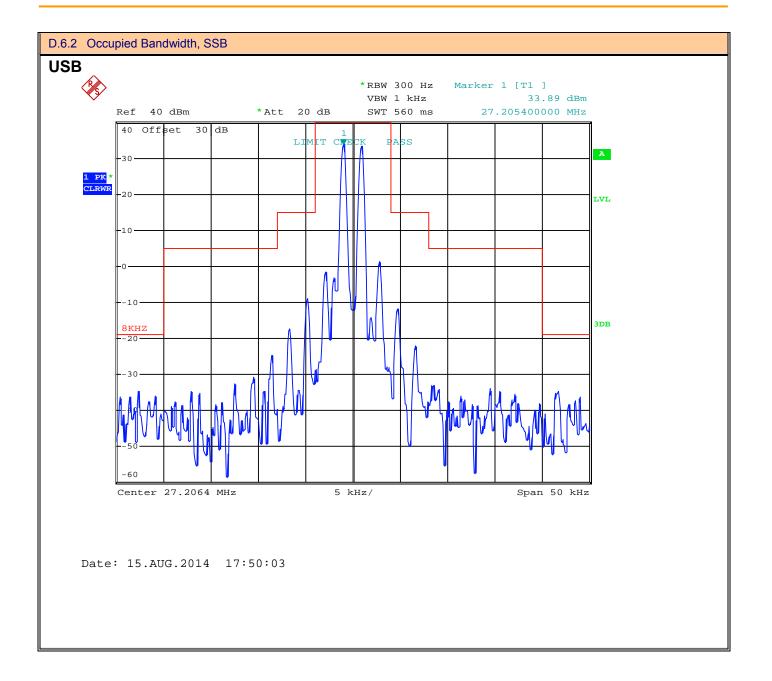
D.6 TEST RESULTS: COMPLIES D.6.1 Occupied Bandwidth, AM *RBW 300 Hz VBW 3 kHz Ref 36 dBm *Att 30 dB SWT 560 ms Offset 30 dB В 20 LVL 2 RM VIEW 3DB 8KHZ Span 50 kHz Center 27.205 MHz 5 kHz/ Date: 2.MAY.2014 20:05:27

Applicant:	Unide	n America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563		Model(c): Rearcat 08055RW		Uniden°	
DUT Type:	AM Mobile CB Radio Transceiver.				Frequer	cy Range:		
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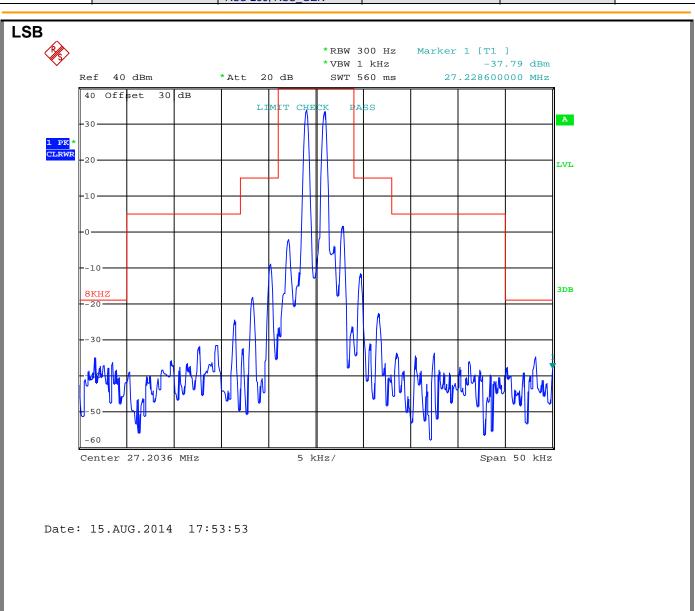


Applicant:	Unide	n America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563		Model(s):	Uniden°	
DUT Type:	AM Mobile CB Radio Transceiver.				Frequer	ncy Range:	
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site





D.7 SIGN-OFF

8/21/2014

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell Lab Manager Celltech Labs Inc.	D. Whiel
	Lab Manager

Date

Applicant:	Unide	en America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563		Model(s):	Uniden°		
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	cy Range:		
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Test Report Serial No.:	090814AMW-T1308-E95D
Measurement Date(s):	07/08/2014-11/08/2014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN

Test Report Issue Date: 8/21/2014
Test Report Revision No.: 1.1

FCC Accredited Site

Test Site Registration(s):



Appendix E Spurious Emissions at the Antenna Terminal

E.1					

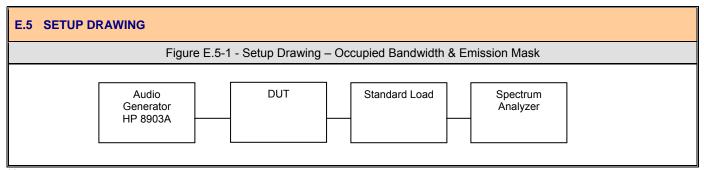
Normative Reference Standard FCC CFR 47 §2.1051, Part 95D,95.635; RSS-236, 5.4.4, RSS-GEN

E.2 LIMITS

Part 95D: 95.635 RSS-236: 5.4.4 53 + 10 Log (Po) = 59dBc, 60dBc ≥ twice the fundamental frequency.

E.3 ENVIRONMENTAL CONDITIONS						
Temperature	25 +/- 5 °C					
Humidity	40 +/- 10 %					
Barometric Pressure	101 +/- 3 kPa					

E.4 EQUIPMENT	E.4 EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE						
00027	HP	8903B	Audio Generator/Analyzer	21-Dec-12 / 21-Dec-14						
00099	Mini-Circuits	BHP-50	High Pass Filter	Cal on use						
00241	R&S	FSU40	Spectrum Analyzer	(first cal cycle) / 04-Sep-15						



Notes:

- The spectrum was searched from 9 kHz to 500 MHz.
- All detected emissions have been reported.

Detected Emissions

Emission Frequency	Level	Level	Limit	Margin
[MHz]	[dBm]	[dBc]	[dBc]	[dB]
54.41	-26.8	62.8	60	-2.8
244.8	-37.3	73.3	60	-13.3
272	-38.3	74.3	60	-14.3

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:		AM Mobile CB Radio Tr	ansceiver.	ansceiver. Frequency R		cy Range:	26.965 - 27.405 MHz	
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Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



E.6 TEST RESULTS: COMPLIES *RBW 100 kHz Marker 1 [T1] VBW 300 kHz -25.78 dBm SWT 100 ms 54.412000000 MHz Ref 36 dBm *Att 30 dB Offset 30 dB -30---A 1 PK VIEW LVL -10-3DB Line for the form of the first -50**-**Start 30 MHz 97 MHz/ Stop 1 GHz

Data:	0 7117	2014	15:52:1	2
Date.	8.AUG.	. ZUI4	T2.27.T	. 3

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:		AM Mobile CB Radio Tr	ansceiver.	insceiver. Frequency		ncy Range:	26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



E.7 TEST RESULTS: COMPLIES *RBW 100 kHz Marker 1 [T1] VBW 1 MHz -26.77 dBm SWT 2.5 ms 54.404000000 MHz *Att 30 dB Ref 36 dBm Offset 30 dB -30-A 1 RM VIEW LVL -10--10**-**3DB D1 -23 dBm -30**-**-50-Center 54.412 MHz 100 kHz/ Span 1 MHz

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver. From			Frequer	ncy Range:	26.965 - 27.405 MHz	
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Date: 8.AUG.2014 15:53:22



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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



E.8 TEST RESULTS: COMPLIES *RBW 100 kHz Marker 1 [T1] VBW 1 MHz -37.29 dBm Ref 36 dBm *Att 30 dB SWT 2.5 ms 244.865000000 MHz Offset 30 dB A 1 RM VIEW LVL 3DB -30**-**Center 244.845 MHz 100 kHz/ Span 1 MHz Date: 8.AUG.2014 15:54:55

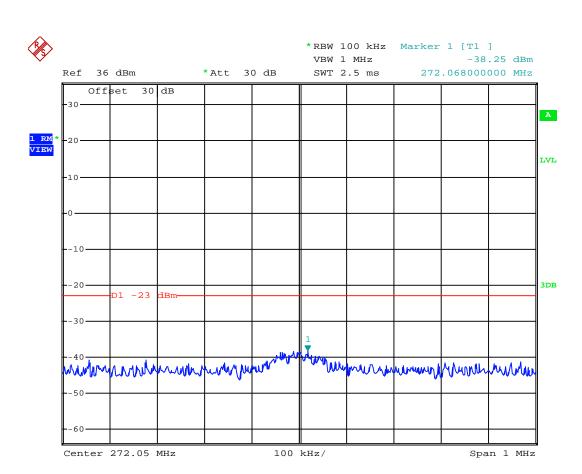
Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.	insceiver. Fre		ncy Range:	26.965 - 27.405 MHz	
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Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



E.9 TEST RESULTS: COMPLIES



Date: 8.AUG.2014 15:55:54

E.10 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Whiels Glen Westwell Lab Manager Celltech Labs Inc. 8/21/2014

Date

Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 UT563	Model(s):	Bearcat 980SSBW	Unideni
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequen	cy Range:	26.965 - 27.405 MHz	
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Test Report Serial No.:	090814AMW-T1308-E95D
Measurement Date(s):	07/08/2014-11/08/2014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN

Test Report Issue Date: 8/21/2014
Test Report Revision No.: 1.1

Test Site Registration(s):

FCC Accredited Site



Appendix F Radiated Spurious Emissions

F.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §2.1053, §95.635, §15B: RSS-236, 5.4, RSS-GEN
Procedure Reference	ANSI/TIA/EIA-382-A, ANSI C63.4

F.2 LIMITS	
FCC §95.635 RSS-236, 5.4	At least 53 + 10 log ₁₀ (T) dB on any frequency removed from the center, 60 dB twice removed from fundamental.

F.3 ENVIRONMENTAL CONDITIONS				
Temperature	18 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

F.4 EQUIPMENT	F.4 EQUIPMENT LIST								
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE					
00072	EMCO	2075	Mini-mast	cnr					
00073	EMCO	2080	Turn Table	cnr					
00071	EMCO	2090	Multi-Device Controller	cnr					
00241	R&S	FSU40	Spectrum Analyzer	(first cal cycle) / 04-Sep-15					
00050	Chase	CBL-6111A	Bilog Antenna	25-Ap-2014 / 25-Ap-2016					
00054	EMCO	3121C	Dipole Antenna	(first cal cycle) / 30-Ap-16					
00051	HP	8566B	Spectrum Analyzer RF Section	30-Ap-14 / 30-Ap-16					
00049	HP	85650A	Quasi-peak Adapter	30-Ap-14 / 30-Ap-16					
00047	HP	85685A	RF Preselector	30-Ap-14 / 30-Ap-16					
00006	R&S	SMR 20	Signal Generator (10MHz-40GHz)	08-May-14 / 08-May-16					
00239	Mini-Ccts	ZFL-1000VH	Amplifier 10MHz-1GHz	Cal on use					
00110	Gigatronics	8652A	Power Meter	17-Feb-14 / 17-Feb-16					
00248	Gigatronics	80701A	Power Sensor	18-Feb-14 / 18-Feb-16					

cnr = calibration not required

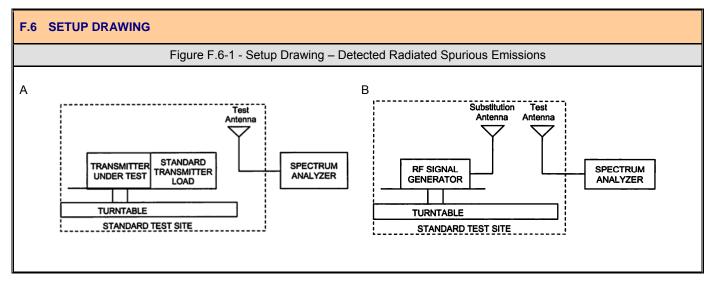
Applicant:	Unide	en America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563			Model(s):	Bearcat 980SSBW	Uniden
DUT Type:		AM Mobile CB Radio Transceiver.		Frequen	cy Range:	26.965 - 27.405 MHz		
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Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



F.5 MEASUREMENT EQUIPMENT SETUP						
MEASUREMENT EQUIPMENT	For the field strength measurements, the measurement equipment was connected as shown in F.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are as follows. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.					
CONNECTIONS	Frequency I	Range	RX Antenna	TX Antenna		
	9kHz – 30	MHz	6502 Loop Ant	N/A		
	30 MHz - 1	IGHz	Bilog	Dipole		
	For measuring the radiated field strength of emissions, the spectrum analyzer was set to the following settings:					
MEASUREMENT	Range	RBW	VBW	Detector		
EQUIPMENT	range	kHz	kHz	Detector		
SETTINGS	9kHz – 30MHz	10	30	Peak		
	30 MHz - 1GHz	100	300	Peak		
	1 GHz - 18 GHz 1000		3000	Peak		



Notes:

- The spectrum was searched from the lowest frequency generated in the device to the 10th harmonic of the fundamental.
- All detected emissions have been reported.
- The DUT was searched on all axis for worst case performance.
- · Worst case emissions are reported.

Applicant:	Unide	en America Corporation	FCC ID: AMWUT56: 513C-UT56			Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:	Type: AM Mobile CB Radio Transceiver.		ansceiver.		Frequency Range:		26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



F.7 TEST RESULTS: COMPLIES

Radiated Emissions: Signal Substitution (Fig. A&B)

TX: 27.205 MHz	Ant. Polarity	Emission Level	Substitution Level	Antenna Gain	Amp Gain	Corrected Level	Limit	Margin
(MHz)		(dBuV)	(dB)	(+dBd)	(-dB)	(dBm)	(dBm)	(dB)
190.435	Н	52.9	-58.3	-0.95	21.6	-80.85	-24.0	-56.85
217.64	Н	62.5	-47.7	-0.75	21.6	-70.05	-24.0	-46.05
244.845	Н	72.7	-34.6	-0.25	21.6	-56.45	-24.0	-32.45
272.05	Н	71.3	-34.2	-0.35	21.6	-56.15	-24.0	-32.15

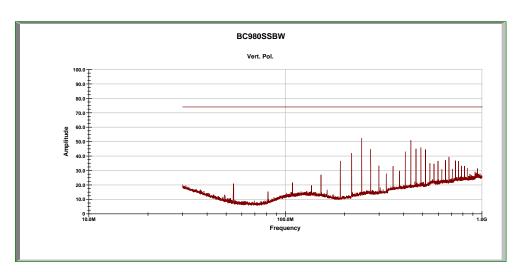
Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden*
DUT Type:		AM Mobile CB Radio Transceiver.		Frequer	cy Range:	26.965 - 27.405 MHz		
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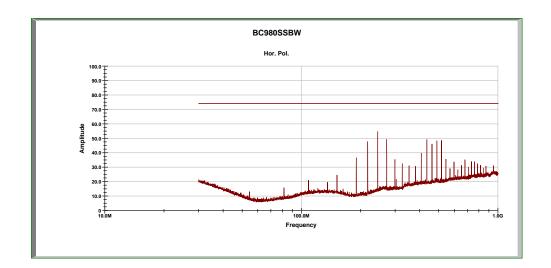


Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



Part 15B, Radiated Emissions plot using peak Detector $Bearcat\ 980SSBW$





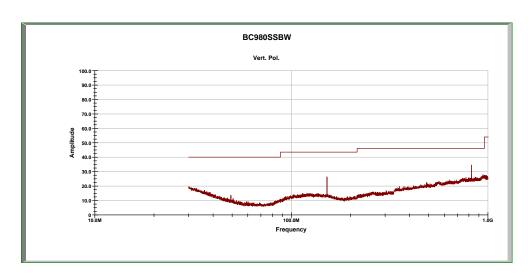
Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden
DUT Type:	e: AM Mobile CB Radio Transceiver.			Frequer	ncy Range:	26.965 - 27.405 MHz		
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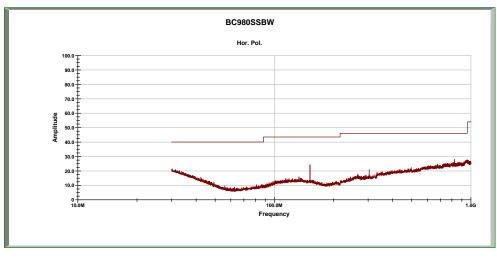


Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site









F.8 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell Lab Manager Celltech Labs Inc.

8/21/2014

Date

Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Transceiver. Frequency Range:		26.965 - 27.405 MHz				
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):

Test Report Issue Date: 8/21/2014 Test Report Revision No.: 1.1



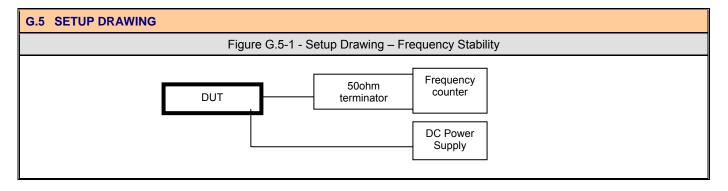
Frequency Stability Appendix G

G.1 REFERENCES					
Normative Reference Standard	FCC CFR 47 §2.1055, §95.625, RSS-GEN				
Procedure Reference / Description	The frequency stability shall be measured with variation of ambient temperature as follows: (1) From -30° to +50° centigrade.				

G.2 LIMITS	
FCC §95.625	The channel center must be maintained within a frequency tolerance of 0.005%.

G.3 ENVIRONMENTAL CONDITIONS				
Temperature	25 +/- 5 °C			
Humidity	40 +/- 10 %			
Barometric Pressure	101 +/- 3 kPa			

G.4 EQUIPMENT LIST						
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL / CAL DUE		
na	ESPEC	ECT-2	Heater/Refrigerator	na		
00003	HP	53181A	Frequency Counter	28-Ap-14 / 28-Ap-16		
na	HP	E3611A	DC Power Supply	Cal on use		
00234	VWR	61161-378	Temperature Humidity Monitor	New / 08-May-2016		



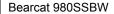
Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:		UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:	AM Mobile CB Radio Transceiver. Frequency Rang		cy Range:	26.965 - 27.405 MHz				
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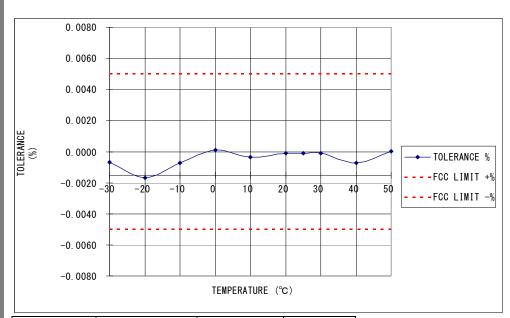


Test Report Serial No.:	090814AMW-T1308-E95D	Test Report Issue Date:	8/21/2014
Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Test Site Registration(s):	FCC Accredited Site



G.6 TEST RESULTS: COMPLIES





Channel: 20			
Temperature (degrees C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Deviation (%)
-30	27.20481	27.204431	-0.0006984
-20	27.204546	27.204471	-0.0016688
-10	27.204798	27.204495	-0.0007425
0	27.205031	27.204887	0.0001139
10	27.204903	27.204922	-0.0003566
20	27.204976	27.204981	-0.0000882
30	27.204973	27.204972	-0.0000992
40	27.204801	27.204880	-0.0007315
50	27.205007	27.204801	0.0000257
	(5.1)		

Remark: Pass/fail criteria for frequency tolerance is 0.005%

	Assigned	Measured Frequency	
Battery %	frequency (MHz)	(MHz)	Deviation %
-15%	27.205 000	27 204 943	-0.0002095
0%	27.205 000	27 204 953	-0.0001728
15%	27.205 000	27 204 953	-0.0001728

G.7 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Glen Westwell

Lab Manager Celltech Labs Inc.

8/21/2014 Date

Applicant:	Unide	en America Corporation	FCC ID: AMWUT563 Ind. Can.: 513C-UT563		Model(s):	Bearcat 980SSBW	Uniden	
DUT Type:		AM Mobile CB Radio Transceiver.			Frequer	cy Range:	26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN



Appendix H Device Photographs

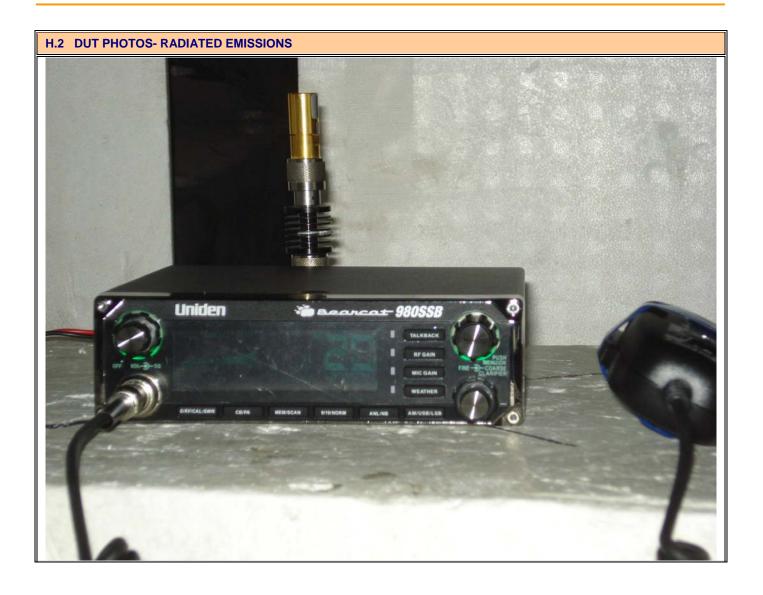


Applicant:	Unide	n America Corporation	FCC ID: AMWU Ind. Can.: 513C-U			Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
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Test Report Serial No.:	090814AMW-T1308-E95D
Measurement Date(s):	07/08/2014-11/08/2014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN





Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 ·UT563	Model(s):	Bearcat 980SSBW	Uniden
DUT Type:		AM Mobile CB Radio Transceiver.		Frequer	cy Range:	26.965 - 27.405 MHz		
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Test Report Serial No.:	090814AMW-T1308-E95D	Tes
Measurement Date(s):	07/08/2014-11/08/2014	Tes
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN	Tes



H.3 DUT PHOTOS- RADIATED EMISSIONS



Applicant:	Unide	n America Corporation	FCC ID: Ind. Can.:		UT563 UT563	Model(s):	Bearcat 980SSBW	Uniden'
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014
Rule Part(s) Applied:	FCC 47 CFR §2, §95D, RSS-236, RSS_GEN





Applicant:	Unide	en America Corporation	FCC ID: Ind. Can.:			Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
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Measurement Date(s):	07/08/2014-11/08/2014	Test Report Revision No.:	1.1
Rule Part(s) Applied:	FCC 47 CFR §2, §95D,	Test Site Registration(s):	FCC Accredited Site



END OF DOCUMENT

Applicant:	Unide	en America Corporation			UT563 -UT563	Model(s):	Bearcat 980SSBW	Uniden°
DUT Type:		AM Mobile CB Radio Tr	ansceiver.		Frequer	cy Range:	26.965 - 27.405 MHz	
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