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Radio Test Report

FCC Part 95 MedRadio Transmitter

Model: Trial Stimulator

- COMPANY: Nevro Corporation 4040 Campbell Ave. Suite 210 Menlo Park, CA 94125
- TEST SITE(S): Elliott Laboratories 684 W. Maude Avenue Sunnyvale, CA 94085 and 41039 Boyce Road. Fremont, CA. 94538-2435
- REPORT DATE: February 24, 2011
- RE-ISSUED DATE: January 23, 2015

FINAL TEST DATES: December 4 and 9, 2009

AUTHORIZED SIGNATORY:

David W. Bare Chief Engineer Elliott Laboratories LLC



Testing Cert #2016-01

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REVISION HISTORY

Rev#	Date	Comments	Modified By
-	02-24-2011	First release	
1	12-11-2014	Revised to change the limit in the detailed	DWB
		results	
2	12-19-2014	Revised to add notes concerning	DMG
		emissions 250 kHz from the band edges	
3	1-13-2015	Revised to change radiated power	DWB
		emissions calculation and clarify in band	
		and band edge emissions results	
4	1-23-2015	Revised to change radiated power	DWB
		emissions calculation and clarify in band	
		and band edge emissions results	

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SCOPE

Tests have been performed on the Nevro Corporation model Trial Stimulator, pursuant to the relevant requirements of the following standard(s) in order to obtain device certification against the regulatory requirements of the Federal Communications Commission.

- Code of Federal Regulations (CFR) Title 47 Part 2
- CFR 47 Part 95 (Medical Device Radiocommunication Service) Subpart I

Conducted and radiated emissions data has been collected, reduced, and analyzed within this report in accordance with measurement guidelines set forth in the following reference standards and as outlined in Elliott Laboratories test procedures:

ANSI C63.4-2003 ANSI TIA-603-C August 17, 2004

Every practical effort was made to perform an impartial test using appropriate test equipment of known calibration. All pertinent factors have been applied to reach the determination of compliance.

The test results recorded herein are based on a single type test of the Nevro Corporation model Trial Stimulator and therefore apply only to the tested sample. The sample was selected and prepared by Jon Parker of Nevro Corporation.

OBJECTIVE

The primary objective of the manufacturer is compliance with the regulations outlined in the previous section.

Prior to marketing in the USA, the device requires certification.

Certification is a procedure where the manufacturer submits test data and technical information to a certification body and receives a certificate or grant of equipment authorization upon successful completion of the certification body's review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

STATEMENT OF COMPLIANCE

The tested sample of Nevro Corporation model Trial Stimulator complied with the requirements of the standards and frequency bands declared in the scope of this test report.

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

DEVIATIONS FROM THE STANDARDS

No deviations were made from the published requirements listed in the scope of this report.

TEST RESULTS

FCC Part 95

Rule Part	Description	Measured	Limit	Result
Transmitter M	odulation, output power and other chara	acteristics		
§2.1033 (c) (5) § 95.628(c)	Frequency range(s)	402.45 – 404.55 MHz	402-405 MHz	Complies
\$2.1033 (c) (6) \$2.1033 (c) (7) \$2.1046 \$ 95.639(f)	EIRP (Calculated from Field Strength)	0.046µW -43.4 dBm	25µW –16dBm	Complies
§2.1033 (c)	Emission types	F1D	-	-
(4) §2.1047 §95.635(d)(4) & (5)	Unwanted emissions (-20dBc)	0.022nW -66.5 dBm	0.46nW -63.4dBm	Complies
<pre>§2.1049 §95.628(d), §95.633(e)(1)</pre>	Authorized Bandwidth, 20dB	257 kHz	300 kHz	Complies
Transmitter sp	urious emissions			-
<pre>\$2.1053 \$2.1057 \$95.635(d)(1)</pre>	Field strength	28.3 dBμV/m (26.0μV/m)@ 161.67 MHz	See table	Complies
Receiver spurio	ous emissions			
15.109	Field strength	28.3 dBμV/m (26.0μV/m)@ 161.67 MHz	See table	Complies
Other details				
95.628(a)	Frequency Monitoring	-	-	N/A
§2.1055 §95.628(g)(2)	Frequency stability	19.2 ppm	100 ppm	
§2.1093	RF Exposure	Refer to separate exhibit	-	Complies
§2.1033 (c)(8)	Final radio frequency amplifying circuit's dc voltages and currents for normal operation over the power range	2.5V, 6.5A	-	-
Notes				

EXTREME CONDITIONS

Frequency stability is determined over extremes of temperature and voltage. As the device is hand carried, battery powered equipment, the supply voltage was reduced to the battery operating end point of 5.8Vdc as specified by the manufacturer.

The extremes of temperature were 0° C to $+55^{\circ}$ C as specified in FCC §95.628(e)(2) for stations in the Medical Device Radiocommunication Service.

MEASUREMENT UNCERTAINTIES

ISO Guide 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) and were calculated in accordance with NAMAS document NIS 81 and M3003.

Measurement Type	Measurement Unit	Frequency Range	Expanded Uncertainty
RF frequency	Hz	25 to 7,000 MHz	1.7 x 10 ⁻⁷
Radiated emission (field	dDuV/m	25 to 1,000 MHz	± 3.6 dB
strength)	ασμν/π	1 to 40 GHz	\pm 6.0 dB

EQUIPMENT UNDER TEST (EUT) DETAILS

GENERAL

The Nevro Corporation model Trial Stimulator is a body worn spinal cord stimulator that is designed to allow the evaluation of the therapy during a trial phase. Since the EUT would be placed on a table top during operation, the EUT was treated as table-top equipment during testing to simulate the end-user environment. The electrical rating of the EUT is 7.2 Volts DC supplied by batteries.

The sample was received on December 4, 2009 and tested on December 4 and 9, 2009. The EUT consisted of the following component(s):

Company	Model	Description	Serial Number	FCC ID
Nevro	Trial Simulator	Trial Spinal	14	XKYEXTS1000
		Cord Stimulator		

ENCLOSURE

The EUT enclosure is primarily constructed of plastic. It measures approximately 12 cm wide by 8 cm deep by 3 cm high.

MODIFICATIONS

No modifications were made to the EUT during the time the product was at Elliott.

SUPPORT EQUIPMENT

No support equipment was used during testing.

EUT INTERFACE PORTS

The I/O cabling configuration during testing was as follows:

Dont	Connected	Cable(s)				
FOIL	To Description		Shielded or Unshielded	Length(m)		
Output 1	Not connected	-	-	0.4		
Output 2	Not connected	-	-	0.4		

EUT OPERATION

During emissions testing the EUT was set to transmit on the selected frequency for transmit modes tests and set to receive mode for all other tests.

TESTING

GENERAL INFORMATION

Radiated spurious emissions measurements were taken at the Elliott Laboratories Anechoic Chambers and/or Open Area Test Site(s) listed below. The sites conform to the requirements of ANSI C63.4: 2003 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz and CISPR 16-1-4:2007 - Specification for radio disturbance and immunity measuring apparatus and methods Part 1-4: Radio disturbance and immunity measuring apparatus Ancillary equipment Radiated disturbances. They are on file with the FCC and industry Canada.

C:4a	Registratio	n Numbers	Location	
Site	FCC	Canada		
			41039 Boyce Road	
Chamber 4	211948	amber 4 211948	2845B-4	Fremont,
			CA 94538-2435	

In the case of Open Area Test Sites, ambient levels are at least 6 dB below the specification limits with the exception of predictable local TV, radio, and mobile communications traffic.

Considerable engineering effort has been expended to ensure that the facilities conform to all pertinent requirements.

RF PORT MEASUREMENT PROCEDURES

Conducted measurements are performed with the EUT's rf input/output connected to the input of a spectrum analyzer, power meter or modulation analyzer. When required an attenuator, filter and/or dc block is placed between the EUT and the spectrum analyzer to avoid overloading the front end of the measurement device. Measurements are corrected for the insertion loss of the attenuators and cables inserted between the rf port of the EUT and the measurement equipment.



Test Configuration for Antenna Port Measurements

OUTPUT POWER

Output power is measured using a power meter and an average sensor head, a spectrum analyzer or a power meter and peak power sensor head as required by the relevant rule part(s). Where necessary measurements are gated to ensure power is only measured over periods that the device is transmitting.

Power measurements made directly on the rf power port are, when appropriate, converted to an EIRP by adding the gain of the highest gain antenna that can be used with the device under test, as specified by the manufacturer.

For devices with an integral antenna the output power is measured as a field strength at a test distance of (typically) 3m and then converted to an eirp using far field equations as shown in SAMPLE CALCULATIONS –RADIATED POWER.

BANDWIDTH MEASUREMENTS

The 6dB, 20dB and/or 26dB signal bandwidth is measured in using the bandwidths recommended by ANSI C63.4. When required, the 99% bandwidth is measured using the methods detailed in RSS GEN. The measurement bandwidth is set to be at least 1% of the instrument's frequency span.

FREQUENCY STABILITY

The EUT is placed inside a temperature chamber with all support and test equipment located outside of the chamber. The temperature is varied across the specified frequency range in 10 degree increments with frequency measurements made at each temperature step. The EUT is allowed enough time to stabilize at each temperature variation.

The spectrum analyzer is configured to give a 5- or 6-digit display for the markerfrequency function. The spectrum analyzer's built-in frequency counter is used to measure the maximum deviation of the fundamental frequency at each temperature. Where possible the device is set to transmit an unmodulated signal. Where this is not possible the frequency drift is determined by finding a stable point on the signal (e.g. the null at the centre of an OFDM signal) or by calculating a centre frequency based on the upper and lower XdB points (where X is typically 6dB or 10dB) on the signal's skirts.

RADIATED EMISSIONS MEASUREMENTS

Receiver radiated spurious emissions measurements are made in accordance with ANSI ANSI C63.4:2003 by measuring the field strength of the emissions from the device at a specific test distance and comparing them to a field strength limit. Where the field strength limit is specified at a longer distance than the measurement distance the measurement is extrapolated to the limit distance.

Transmitter radiated spurious emissions are initially measured as a field strength. The eirp or erp limit as specified in the relevant rule part(s) is converted to a field strength at the test distance and the emissions from the EUT are then compared to that limit. Emissions within 20dB of this limit are the subjected to a substitution measurement.

All radiated emissions measurements are performed in two phases. A preliminary scan of emissions is conducted in either an anechoic chamber or on an OATS during which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed across the complete frequency range of interest and at each operating frequency identified in the reference standard. One or more of these is with the antenna polarized vertically while the one or more of these is with the antenna polarized horizontally. Initial scans are made using a peak detector (RBW=VBW) and using scan rates to ensure that the EUT transmits before the sweep moves out of each resolution bandwidth (for transmit mode).

During the preliminary scans, the EUT is rotated through 360°, the antenna height is varied and cable positions are varied to determine the highest emission relative to the limit. For transmitter spurious emissions, where the limit is expressed as an effective radiated power, the eirp or erp is converted to a field strength limit.

Final measurements are made on an OATS or in a semi-anechoic chamber at the significant frequencies observed during the preliminary scan(s) using the same process of rotating the EUT and raising/lowering the measurement antenna to find the highest level of the emission. The field strength is recorded and, for receiver spurious emissions, compared to the field strength limit. For the final measurement the appropriate detectors (average, peak, normal, sample, quasi-peak) are used. For receiver measurements below 1GHz the detector is a Quasi-Peak detector, above 1GHz a peak detector is used and the peak value (RB=VB=1MHz) and average value (RB=1MHz, VB=10Hz) are recorded.

For transmitter spurious emissions, the radiated power of all emissions within 20dB of the calculated field strength limit are determined using a substitution measurement. The substitution measurement is made by replacing the EUT with an antenna of known gain (typically a dipole antenna or a double-ridged horn antenna), connected to a signal source. The output power of the signal generator is adjusted until the maximum field strength from the substitution antenna is similar to the field strength recorded from the EUT. The erp of the EUT is then calculated.

INSTRUMENTATION

An EMI receiver as specified in CISPR 16-1-1 is used for radiated emissions measurements. The receivers used can measure over the frequency range of 9 kHz up to 7000 MHz. These receivers allow both ease of measurement and high accuracy to be achieved. The receivers have Peak, Average, and CISPR (Quasi-peak) detectors built into their design so no external adapters are necessary.

For measurements above the frequency range of the receivers and for all conducted measurements a spectrum analyzer is utilized because it provides visibility of the entire spectrum along with the precision and versatility required to support engineering analysis.

Measurement bandwidths for the test instruments are set in accordance with the requirements of the standards referenced in this document.

Software control is used to correct the measurements for transducer factors (e.g. antenna) and the insertion loss of cables, attenuators and other series elements to obtain the final measurement value. This provides faster, more accurate readings by performing the conversions described under Sample Calculations within the Test Procedures section of this report. Results are exported in a graphic and/or tabular format, as appropriate.

FILTERS/ATTENUATORS

External filters and precision attenuators are often connected between the EUT antenna port or receiving antenna and the test receiver. This eliminates saturation effects and non-linear operation due to high amplitude transient events.

ANTENNAS

A combination of biconical, log periodic or bi-log antennas are used to cover the range from 30 MHz to 1000 MHz. Broadband antennas or tuned dipole antennas are used over the entire 25 to 1000 MHz frequency range as the reference antenna for substitution measurements.

Above 1000 MHz, a dual-ridge guide horn antenna or octave horn antenna are used as reference and measurement antennas. The antenna calibration factors are included in site factors that are programmed into the test receivers and instrument control software when measuring the radiated field strength.

ANTENNA MAST AND EQUIPMENT TURNTABLE

The antennas used to measure the radiated electric field strength are mounted on a nonconductive antenna mast equipped with a motor-drive to vary the antenna height.

Table mounted devices are placed on a non-conductive table at a height of 80 centimeters above the floor. Floor mounted equipment is placed on the ground plane if the device is normally used on a conductive floor or separated from the ground plane by insulating material from 3 to 12 mm if the device is normally used on a non-conductive floor. The EUT is positioned on a motorized turntable to allow it to be rotated during testing to determine the angel with the highest level of emissions.

SAMPLE CALCULATIONS

SAMPLE CALCULATIONS - CONDUCTED SPURIOUS EMISSIONS

Measurements are compared directly to the conducted emissions specification limit (decibel form). The calculation is as follows:

$$R_r - S = M$$

where:

 R_r = Measured value in dBm S = Specification Limit in dBm

M = Margin to Specification in +/- dB

SAMPLE CALCULATIONS -RADIATED FIELD STRENGTH

Measurements of radiated field strength are compared directly to the specification limit (decibel form). The receiver and/or control software corrects for cable loss, preamplifier gain, and antenna factor. The calculations are in the reverse direction of the actual signal flow, thus cable loss is added and the amplifier gain is subtracted. The Antenna Factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

A distance factor is sued when measurements are made at a test distance that is different to the specified limit distance by using the following formula:

$$F_d = 20*LOG_{10} (D_m/D_s)$$

where:

 F_d = Distance Factor in dB D_m = Measurement Distance in meters D_s = Specification Distance in meters

For electric field measurements below 30MHz the extrapolation factor is either determined by making measurements at multiple distances or a theoretical value is calculated using the formula:

$$F_d = 40*LOG_{10} (D_m/D_s)$$

The margin of a given emission peak relative to the limit is calculated as follows:

 $R_c = R_r + F_d$

and

 $M = R_c - L_s$

where:

 R_r = Receiver Reading in dBuV/m

- F_d = Distance Factor in dB R_c = Corrected Reading in dBuV/m
- L_{S} = Specification Limit in dBuV/m
- M = Margin in dB Relative to Spec

SAMPLE CALCULATIONS -RADIATED POWER

The erp/eirp limits for transmitter spurious measurements are converted to a field strength in free space using the following formula and adding 6dB for sites using a reflective ground plane (per FCC 95.627(g)(3):

$$E = \frac{\sqrt{30 P G}}{d}$$

where:

Е	=	Field Strength in V/m
Р	=	Power in Watts
G	=	Gain of isotropic antenna (numeric gain) $= 1$
D	=	measurement distance in meters

The field strength limit is then converted to decibel form (dBuV/m) and the margin of a given emission peak relative to the limit is calculated (refer to *SAMPLE CALCULATIONS –RADIATED FIELD STRENGTH*).

When substitution measurements are required (all signals with less than 20dB of margin relative to the calculated field strength limit) the eirp of the spurious emission is calculated using:

and

 $P_{EUT} = P_{S-}(E_{S-}E_{EUT})$

$$P_s = G + P_{in}$$

where:

- P_S = effective isotropic radiated power of the substitution antenna (dBm)
- P_{in} = power input to the substitution antenna (dBm)
- G = gain of the substitution antenna (dBi)
- E_{S} = field strength the substitution antenna (dBm) at eirp P_{S}
- E_{EUT} = field strength measured from the EUT

Where necessary the effective isotropic radiated power is converted to effective radiated power by subtracting the gain of a dipole (2.2dBi) from the eirp value.

RECEIVER RADIATED SPURIOUS EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from receivers as detailed in FCC Part 15.109. Note that receivers operating outside of the frequency range 30 MHz - 960 MHz are exempt from the requirements of 15.109.

Frequency Range (MHz)	Limit (uV/m @ 3m)	Limit (dBuV/m @ 3m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

For MedRadio, the above limits also apply to the transmitter per §95.635(d).

Appendix A Test Equipment Calibration Data

Environmental Test, 04	4-Dec-09			
Manufacturer	Description	Model	Asset #	Cal Due
Agilent	PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX,	E4446A	2139	12/30/2009
Thermotron	Temp Chamber (w/ F4 Watlow Controller)	S1.2	2170	6/29/2010
Radiated Emissions, 3	0 - 1,000 MHz, 10-Dec-09			
Manufacturer	Description	Model	Asset #	Cal Due
Sunol Sciences	Biconilog, 30-3000 MHz	JB3	1549	6/4/2010
Hewlett Packard	Preamplifier, 100 kHz - 1.3 GHz	8447E	1606	4/30/2010
Rohde & Schwarz	EMI Test Receiver, 20 Hz-7 GHz	ESIB7	1756	2/10/2010

Appendix B Test Data

T77541 10 Pages



EMC Test Data

Client:	Nevro	Job Number:	J77515
Model:	Trial Stimulator	T-Log Number:	T77541
		Account Manager:	Sheareen Washington
Contact:	Jon Parker	Project Engineer:	David Bare
Emissions Standard(s):	FCC 95, EN 301-839-1m EN 60601-1-2	Class:	В
Immunity Standard(s):	EN 401 489-1, EN 401 489-27, IEC/EN 60601-1-2	Environment:	Radio/Medical

EMC Test Data

For The

Nevro

Model

Trial Stimulator

Date of Last Test: 12/17/2009

(CE		Dtt Art company				EM	C Test Data
Client:	Nevro					Job Number:	J77515
Model	Trial Stimula	ator				T-Log Number:	T77541
wouer.	That Sumula	1101				Account Manager:	Sheareen Washington
Contact:	Jon Parker						
Standard:	FCC 95, EN	301-839-1m	n EN 60601-	1-2		Class:	N/A
Test Spe	c ific Detai Objective:	Is The objectiv	FCC R	adiated	Spurious Em	issions	respect to the
l Te Ti	Date of Test: est Engineer: est Location:	12/9/2009 Rafael Vare Fremont Ch	las amber #4	e.	Config. Used: Config Change: EUT Voltage:	2 None Battery	
General T The EUT ar For radiated Ambient	Test Config ad all local su l emissions te Condition	guration pport equipn esting the me s:	nent were loo easurement a 1	cated on the t antenna was Femperature:	turntable for radiated spur located 3 meters from the 16.8 °C	ious emissions testing. EUT.	
Summary	of Result	s - Device	• Operatin	ig in the 40	35 % 02-405 MHz Band		
Run #	Mode	Channel	Power Setting	Measured Power	Test Performed	Limit	Result / Margin
			02		Fundamental	85.2 dBµV/m	57.2 dBµV/m @ 402.450MHz (-31.0dB)
19		low	02		Restricted Band Edge (402 MHz)	46.0 dBµV/m	24.4 dBµV/m @ 402.000MHz (-32.8dB)
Ta		1011	02		20dB Edge at +/-150 kHz	27.7 dBµV/m	26.0dBµV/m @ 402.270MHz (-1.7dB)
			02		Radiated Emissions, 25 - 4050 MHz	Part 95	28.3 dBµV/m @ 161.67MHz (-15.2dB)
			02		Fundamental	85.2 dBµV/m	57.8dBµV/m @ 404.550MHz (-27.4dB)
16		high	02		Restricted Band Edge (405 MHz)	46.0 dBµV/m	21.3dBµV/m @ 405.000MHz (-24.7dB)
u		Ingri	02		20dB Edge at +/-150 kHz	28.1 dBµV/m	25.0dBµV/m @ 404.360MHz (-3.1dB)
			02		Radiated Emissions, 25 - 4050 MHz	Part 95	37.3dBµV/m @ 3242.32MHz (-16.7dB)
2		mid	02		20dB Bandwidth	300 kHz	257 kHz

Modifications Made During Testing No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Elliott

EMC Test Data

	An AZ	A company								
Client:	Nevro							Job Number:	J77515	
Madalı	ol. Trial Stimulator					T-	Log Number:	T77541		
woder:							Acco	unt Manager:	Sheareen Washing	gton
Contact:	Jon Parker									
Standard:	Standard: ECC 95 EN 301-839-1m EN 60601-1-2								N/A	
Run #1· Ra	diated Spur	ious Emissi	ons 25 - 40	50 MHz						
FUT and	Test Config	uration Deta	ails [.]	50 Mil 12.						
Fundame	ntal level (Lir	nit: 85.2 dBu	V/m)							
Level befo	ore 402MHz	for low chanr	nel and after	405MHz for	high channel	(Limit= 46.0	dBuV/m)			
Level 250	kHz away fro	om fundamer	ntal (Limit: 46	5.0dBuV/m)	5		,			
	,		,	,						
Run #1a: L	ow Channel	@ 402.45 N	ЛHz							
Fundament	al Signal Fie	eld Strength	: Peak value	s measured	in 1 MHz		1			
Frequency	Level	Pol	F(20	Detector	Azimuth	Height	Comments		
MHZ	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
402.450	57.2	H	85.2	-28.0	PK	233	1.0	EUT Flat		
402.450	43.4	V	85.2	-41.8	PK	168	2.1	EUT Flat		
402.450	54.6	H	85.Z	-30.6	PK	251 120	1.0	EUT Side		
402.450	40.7 54.0	V	05.2	-38.5		102	2.1 1.0	EUT Slue		
402.450	50.3	П V	85.2	-30.3	PK	210	1.0	EUT Uprigh	d t	
402.430	50.5	v	00.2	-34.7		217	1.2			
In Band and	d Near Band	Delta Meas	urments							
Frequency	Level	Pol	F	00	Detector	Azimuth	Height	Comments		
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	1		
401.909	14.9	Н	N/A	See note 1	PK	233	1.0	out of band	< 250 kHz from edg	ge
401.909	9.2	V	N/A	See note 1	PK	168	2.1	out of band	< 250 kHz from edg	ge
402.270	26.0	Н	27.7	-1.7	PK	233	1.0	In band >15	i0 kHz from 404.55	MHz
402.670	23.5	Н	27.7	-4.2	PK	233	1.0	In band >15	0 kHz from 404.55	MHz
50.0-							I.	Analyzer Se	ttings	
45.0-	-			111				Rohde8Schw	varz,ESI	
40.0-	-							CF: 402.500	MHz MHz	
35.0-	_			• n.				RB: 3.00 kHz	2	
20.0								VB: 10.0 kHz	2	
9								Detector: PC)S	
글 25.0-	-							Attn: TU DB	1.8 DB	
물 20.0-	-							Sweep Time:	: 0.6s	
¯ 15.0-		<mark>*</mark>	₩ 7₩		- t			Ref Lvl: 74.2	2 DBUV	
10.0-	- <u> </u>	الد م ا	N 4 🗆		13 AL		А. – – –			
5.0-	- 14 Mu	. WHY	n .		1 1.11	1		Comments		
0.0-	די ערע	ALL			1 - N	BUNN	- 1	BE @ 402 MH	Ηz	
-5.0-								Low Channel	I ത 402.45 MHz	
40)i.5 40	1.8 402.0	402.2 403	2.4 402.6	402.8 403.	.0 403.2	403.5	Low Charmon	102.101412	
			Frequ	uency (MHz)	1					
Cursor 1	401.9088	3 14.94	+	• D	elta Freq. 🛛	569 kHz		C11 :		
Cumpus 2	400 4700	47.70	- <u>k</u> - &	v D - h -		22.70	1	H.111	OTT	
Cursor 2	402,4780	9 47.72	Ψ <u>Υ</u> Ψ	Delta	Amplitude	32.78	e -			







(C) E		Stt						EM	C Test Data
Client:	Nevro	_ company		<u></u>	<u></u>	· · · · · · · · · · · · · · · · · · ·		Job Number:	J77515
Madal	Total Othersda	•					Т	-Log Number:	. T77541
Model:	I rial Stimula	tor					Acco	unt Manager:	Sheareen Washington
Cuntact.		201_220_1m		<u> </u>			<u> </u>	Class	· Ν/Λ
Standard: FUU 95, EN 301-839-IM EN 60601-1-2 Class: N/A									
Run #1b: H Fundament	igh Channel tal Signal Fie	@ 404.55 M eld Strength	l Hz : Peak valu	es measured	in 1 MHz				
Frequency	Level	Pol	F	CC	Detector	Azimuth	Height	Comments	
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		·
404.550	57.8	Н	85.2	-27.4	PK	242	1.0	EUT Flat	
404.550	46.6	V	85.2	-38.6	PK	240	1.0	EUT Flat	
In Band and	d Near Band	Delta Meas	urments				_		
Frequency	Level	Pol	F′	CC	Detector	Azimuth	Height	Comments	
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	<u> </u>	
405.063	11.6	H	N/A	See Note 2	PK	242	1.0	out of band	< 250 kHz from edge
405.063	10.1	V	N/A	See Note 2	PK	240	1.0	out of band	< 250 kHz from edge
404.360	25.0		28.1	-3.1	PK	240	1.0	In band >15	0 kHz from 404.55 MHz
45.0- 40.0- 35.0- 30.0- 25.0- 25.0- 15.0- 10.0- 5.0- -5.0- 40		3.8 404.0	404.2 40 Freq	4.4 404.6 juency (MHz)	404.8 405.	0 405.2	405.5	Rohde&Schw CF: 404.500 SPAN: 2.000 RB: 3.00 kHz VB: 10.0 kHz Detector: PO Attn: 10 DB RL Offset: -1 Sweep Time: Ref Lvl: 74.2 Comments BE @ 405 MH High Channe	arz,ESI MHz MHz S .8 DB 0.6s 0BUV 1z 12
Cursor 1 404.5461 48.10 48.10 Delta Freq. 517 kHz Cursor 2 405.0631 9.95 Delta Amplitude 38.15 Elliottt									
Note 1: Spurious emissions for this high channel were the same as for the low channel, highest fundamental and spurious emissions were with the EUT flat.									
Note 2: The dena in emissions level from the invaria level to the level at 405.005 is 36.5 db. Subtracting this from the field strength of the fundamental at 1 MHz gives a value of 21.3 dBuV/m which even complies with the out of band limit of 46 dBuV/m.									
The delta in	The delta in emissions level from the inband level to the highest level >150 kHz from the center is 23.1 dB. The power of this unwanted								
emmission i	emmission is thus -66.5 dBm since the power of the wanted emission is -43.4 dBm calculated from the 57.8 dBuV/m FS.								



EMC Test Data

Client:	Nevro							Job Number:	J77515		
Model	Trial Stimulator						T-Log Number:		T77541		
MOUEI.	Thai Sumua								Sheareen Was	shington	
Contact:	Jon Parker										
Standard:	FCC 95, EN	301-839-1m	EN 60601-1	-2				Class:	N/A		
Other Spuri	ious Emissic	ons									
Frequency	Level	Pol	F(CC	Detector	Azimuth	Height	Comments			
MHz	dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
2307.170	33.9	V	54.0	-20.1	Peak	212	1.0				
3242.330	37.3	V	54.0	-16.7	Peak	92	1.6				
										-	
1000 -	4100 MHz, H	ligh Channel	@ 404.55 N	4Hz, EUT Fla	at Orientation	1					
00											
70	70.0-										





CE	Elliott An DE Company			EMO	C Test Data
Client:	Nevro			Job Number:	J77515
Model:	Trial Stimulator			T-Log Number:	T77541
Quality	les Derlies			Account Manager:	Sheareen Washington
Contact: Standard:	JON Parker ECC 95 EN 301-839-1m EN 6		Class [.]	B	
Standard.		000112		01035.	
		FCC Part Frequency	95.628 Stability		
Test Spec	ific Details				
	Objective: The objective of th specification listed	iis test session is to perfori I above.	m final qualification	testing of the EUT with	n respect to the
General T With the e measurem	est Configuration xception of the radiated spuriou nents the EUT was place inside	us emissions tests, all mea an environmental chambe	surements are mad er.	e with a probe. For fre	equency stability
Radiated	measurements are made with the	he EUT located on a non-c	conductive table, 3m	from the measureme	nt antenna.
Ambient (Conditions:	Temperature: Rel. Humidity:	20 °C 40 %		
Summary	of Results				
Run #	Test Performed	Limit	Pass / Fail	Result	[
1	Frequency Stability	100ppm	Pass	19.2ppm	
No modifie Deviation No deviati	cations were made to the EUT of s From The Standard ons were made from the require	during testing ements of the standard.			

Client Netro Lob Number 17751 Model: Trial Stinulator Account Manager Sheareen Washington Contact: Joh Number 17751 Account Manager Sheareen Washington Contact: Joh Number 17751 Sheareen Washington Account Manager Sheareen Washington Contact: Joh Number 17751 Account Manager Sheareen Washington Contact: Joh Number Sheareen Washington Contact: Joh Number 17751 Account Manager Sheareen Washington Contact: Joh Number Sheareen Washington Contact: Joh Number 17751 Account Manager Sheareen Washington Contact: Joh Number Yoris Contact Joh Number Joh Num								
Client Nevro Job Number: J77515 Model Trial Slimulator T-Log Number: T7751 Account Manager: Standard: FCC 95, EN 301-839-1m EN 60601-1-2 Class: B Standard: FCC 95, EN 301-839-1m EN 60601-1-2 Class: B Run #1: Frequency Stability Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Nominal Frequency: 403.05 MHz Frequency Stability Over Temperature Importance Importance Torostact (MHz) (Hz) (hz) (ppm) Importance Importance Colssius (MHz) (Hz) (ppm) Importance Importance Importance Torostact 10 403.055413 5413 13.4 Importance Importance Standard: Frequency Stability Over Input Voltage Importance Importance Importance Frequency Stability Over Input Voltage Importance Importance Importance Importance O 403.055413 5413 13.4 Importance Importance Importance Import	6	Elliott			EMO	C Test Data		
Model: T-Log Number: 177541 Account Manager: Sharveen Washington Standard: FCC 95, EN 301-839-1m EN 60601-1-2 Class: B Run #1: Frequency Stability Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Nominal Frequency: 403.05 MHz Frequency Stability Over Temperature The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to eshure the EUT and chamber had stabilized at that temperature. Temecrature Frequency Measured Drift (Ciclisus) (MHz) Frequency Massing Advances Frequency Measured 10.9 The EUT was soaked at each temperature Frequency Measured 10.9 Not 1: Maximum drift of fundamental frequency before II shut down at 1.8 Vdc was 7.4kHz.	Client:	Nevro			Job Number:	J77515		
Model: Inflat sumulation Account Manager Sheareen Washington Contact: Jon Parker Class: B Standard: FCC 95, EN 301-839-1m EN 60601-1-2 Class: B Run #1: Frequency Stability Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Nominal Frequency: 403.05 MHz Frequency Stability Very Temperature The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to esnure the EUT and chamber had stabilized at that temperature. Immetature Immetature Temperature Trequency Measured Drift (colsius) (MHz) (Hz) (ppm) 0 403.054402 4402 10.9 0 403.055413 5413 13.4 30 403.055977 3597 8.9 55 403.055413 5413 13.4 30 403.055413 521 13.0 13.4 13.4 30 403.055677 3597 8.9 55 403.0556413 5413 13.4	Madalı	Trial Climulator			T-Log Number:	T77541		
Contact: Jon Parker Standard: FCC 95, EN 301-839-1m EN 60601-1-2 Class: Bate: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Nominal Frequency: 403.05 MHz Frequency Stability Over Temperature The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to esnure the EUT and chamber had stabilized at that temperature. Temperature Frequency Measured Colsius: (MHz) (Hz) (ppm) 0 403.057723 7723 19.2 10 403.05402 4402 10.9 20 403.055313 5413 13.4 30 403.055231 55231 13.0 Worst case: 7723 The EUT and chamber bas stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Oc) (MHz) (Hz) (ppm) 7.2 403.05513 5413 13.4 Stability Over Input Voltage <td <="" colspan="2" td=""><td>Niuuei.</td><td></td><td></td><td></td><td>Account Manager:</td><td>Sheareen Washington</td></td>	<td>Niuuei.</td> <td></td> <td></td> <td></td> <td>Account Manager:</td> <td>Sheareen Washington</td>		Niuuei.				Account Manager:	Sheareen Washington
Class B Class B Run #1: Frequency Stability Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Mominal Frequency: 403.05 MHz Frequency Stability Over Temperature The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to essure the EUT and chamber had stabilized at that temperature. <u>Temeerature Weasured Drift</u> (Celsius) OM142 10 403.054402 19/2 10 403.054402 19/2 10 403.055413 5/3 19/2 10 403.055413 6/3 6/3 10/403.055371 5/3 10/403.055371 5/3 10/2 Vort colspan="2">10/2 Vort colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= 2" Vort colspan= 2"	Contact:	Jon Parker			-			
Run #1: Frequency Stability Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Nominal Frequency: 403.05 MHz Frequency Stability Over Temperature To minimum of 30 minutes prior to making the measurements to essure the EUT and chamber had stabilized at that temperature for a minimum of 30 minutes prior to making the measurements to essure the EUT and chamber had stabilized at that temperature. Temperature Frequency Measured Drift (Celsius) (MHz) (Hz) (ppm) 0 403.054202 4402 10.9 20 403.055402 4402 10.9 20 403.055402 4402 10.9 20 403.055271 3597 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Measured <u>Worst case:</u> 7723 19.2 Frequency Measured <u>Worst case:</u> 7723 13.4 7.2 403.055413 54.13 13.4 7.2 403.055413 54.13 13.4 5.8 403.055413	Standard:	FCC 95, EN 301-839-1	1m EN 60601-1-2		Class:	В		
Date: 12/4/2009 Engineer: Mehran Birgani Location: Environmental Chamber Hominal Frequency: 403.05 MHz Frequency Stability Over Temperature Temperatum Frequency Measured Drift (Celsius) (MHz) (Hz) (ppm) 0 403.057723 7723 19.2 10 403.054020 4402 10.9 20 403.054723 7723 19.2 10 403.055376 3967 9.8 40 403.055231 5231 13.0 Worst case: 7723 19.2 Worst case: 7723 19.2 10.6 50 403.055231 5231 13.0 Worst case: 7723 19.2 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Oc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413	Run #1: Fr	equency Stability						
Mominal Frequency: 403.05 MHz Fequency Stability Over Temperature for a minimum of 30 minutes prior to making the measurements to essure the EUT and chamber had stabilized at that temperature. Immerature (Celsius) (MHz) (Hz) (ppm) 0 403.057123 7723 19.2 10 403.054402 4402 10.9 20 403.055413 5413 13.4 30 403.055221 4272 10.6 50 403.055231 5231 13.0 Worst case: 7723 19.2 Worst case: 7723 19.2 Vorst case: 7723 19.2 Ketter endpoint is 5.8 Vbc 10.6 10 (MHz) (Hz) (ppm) 72 403.055413 5413 13.4 3.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 <td>Date:</td> <td>12/4/2009</td> <td>Engineer: Mehran Birgani</td> <td>Location:</td> <td>Environmental Chamber</td> <td></td>	Date:	12/4/2009	Engineer: Mehran Birgani	Location:	Environmental Chamber			
Frequency Stability Over Temperature for a minimum of 30 minutes prior to making the measurements to esnure the EUT and chamber had stabilized at that temperature. Temperature Temperature Temperature Frequency Measured Drift (Celsius) (MH2) (Hz) (ppm) 0 403.057723 7723 19.2 10 403.054402 4402 10.9 20 403.054402 4402 10.9 20 403.054402 4402 10.9 20 403.054713 5413 13.4 30 403.055471 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (DC) (MH2) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413		Nominal Frequency:	403.05 MHz					
Frequency Stability Over Temperature The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to esnure the EUT and chamber had stabilized at that temperature. Temperature Temperature Temperature O 0 0 0 0 0 10.403.0547723 7723 10.403.054402 4402 10.403.054713 3.01 3.0 Worst case: 772.3 19.2 403.055473 5.5 403.055231 5.5 Frequency Measured Drift (DC) Mote 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	_							
The EUT was soaked at each temperature for a minimum of 30 minutes prior to making the measurements to eshure the EUT and chamber had stabilized at that temperature. Temperature Frequency Measured Drift 0 403.057723 7723 19.2 10 403.057723 7723 19.2 10 403.057723 7723 19.2 10 403.05402 4402 10.9 20 403.054272 4272 10.6 50 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	Frequency	Stability Over Temper	rature	the transmitte		u sur ad		
Definition Drift Immeerature Frequency Measured Drift 0 403.057723 7723 19.2 10 403.05743 5413 13.4 30 403.055413 5413 13.4 30 403.05547 3967 9.8 40 403.05547 3967 9.8 40 403.05547 3967 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Frequency Stability Over Input Voltage Static period Drift (Dc) (MHz) (Hz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 5413 13.4 5.8 403.055413 5413 5413 13.4 5.8 403.055413 5413 5413 13.4 5.8 403.055413 5413 5413 5413 5413 541 54 54 54 54 54 54 54 54 54 54 54 54 55 55	The EUI wa	as soaked at each temp	erature for a minimum of 30 mir	nutes prior to makin	ig the measurements to e	snure the EUT and		
Temperature Frequency Measured Drift (Celsius) (MHz) (Hz) (ppm) 0 403.057723 7723 19.2 10 403.05402 4402 10.9 20 403.055413 5413 13.4 30 403.053967 3967 9.8 40 403.05397 3597 8.9 55 403.05231 5231 13.0 50 403.05231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	champer na	d stabilized at that temp	perature.					
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Items Items Items 0 403.057723 7723 19.2 10 403.054402 4402 10.9 20 403.055413 5413 13.4 30 403.053967 3967 9.8 40 403.05397 3597 8.9 55 403.05231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	(Celsius)	(MHz)	(Hz)	(maa)	-			
0 403.054402 4002 10.9 20 403.055413 5413 13.4 30 403.053967 3967 9.8 40 403.054272 4272 10.6 50 403.055271 55397 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz. Note 1:	0	403.057723	7723	19.2	-			
100 100 100 20 403.055413 5413 13.4 30 403.053967 3967 9.8 40 403.054272 4272 10.6 50 403.05397 3597 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	10	403.054402	4402	10.9	-			
20 100,00,10 0,10 10,1 30 403,053967 3967 9,8 40 403,053212 4272 10,6 50 403,055231 5231 13,0 55 403,055231 5231 13,0 Worst case: 7723 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403,055413 5413 13.4 5.8 403,055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	20	403 055413	5413	13.4				
40 403.054272 4272 10.6 50 403.053597 3597 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz. Note 1:	30	403 053967	3967	9.8	-			
40 403.053212 4212 10.0 50 403.053597 3597 8.9 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz. Note 1:	40	103.000707	1272	10.6	-			
30 403.05397 3377 6.7 55 403.055231 5231 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	40 50	403.034272	4272 2507	0.0	4			
55 403.032.31 52.31 13.0 Worst case: 7723 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	50	403.000077	5077 E001	0.7	-			
Worst case: //23 19.2 Frequency Stability Over Input Voltage Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	50	403.055231	5231	13.0	4			
Battery endpoint is 5.8 Vdc Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.		Worst case:	//23	19.2				
Voltage Frequency Measured Drift (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	Frequency	Stability Over Input V	oltage Battery end	point is 5.8 V/dc				
Ottage Trequercy inclusion Drive (Dc) (MHz) (Hz) (ppm) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	Voltane	Frequency Measured	T Drift		1			
(bc) (nz) (ppn) 7.2 403.055413 5413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	(Dr)	(MHz)	(H7)	(nnm)	-			
7.2 403.055413 3413 13.4 5.8 403.055413 5413 13.4 Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	7.2	403 055413	5/12	12 /	1			
Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	5.8	403.055413	5413	13.4	-			
Note 1: Maximum drift of fundamental frequency before it shut down at 1.8 Vdc was 7.4kHz.	0.0	1001000.10	0110	10.1	J			
	Note 1:	Maximum drift of funda	amental frequency before it shut	down at 1.8 Vdc w	ias 7.4kHz.			
	11010 1.			dominating				