		<u>ĽIVI</u>	
Client	Standard Communications	Job Number:	J41061 T41217
iviodel		Proi Ena:	David Bare
Contact	Micheal Malin		
nissions Spec	FCC 22 (Cellular)	Class:	N/A
nmunity Spec:		Environment:	
	FMC Test	Data	
	Lino rest		
	For The		
	Standard Comm	unications	
	Model		
	CMM 7700 &	8700	

Ellio	t	EM	C Test Data
Client:	Standard Communications	Job Number:	J41061
Model:	CMM 7700 & 8700	T-Log Number:	T41217
		Proj Eng:	David Bare
Contact:	Micheal Malin		
Emissions Spec:	FCC 22 (Cellular)	Class:	N/A
Immunity Spec:	Enter immunity spec on cover	Environment:	

TEST SUMMARY

Date	Test Performed	Level	Results	Margin
12/27/00	Power Output	22.917(a)	Pass	Level 0
12/27/00	Power Output	22.917(a)	Pass	Level 1
12/27/00	Power Output	22.917(a)	Pass	Level 2
12/27/00	Power Output	22.917(a)	Pass	Level 3
12/27/00	Power Output	22.917(a)	Pass	Level 4
12/27/00	Power Output	22.917(a)	Pass	Level 5
12/27/00	Power Output	22.917(a)	Pass	Level 6
12/27/00	Power Output	22.917(a)	Pass	Level 7
12/27/00	Occupied Bandwidth	22.917(d)	Pass	Wideband data
12/27/00	Out-Of-Band	22.917(e)	Pass	Wideband data
12/27/00	Mobile Emission	22.917 (f)	Pass	Wideband data
12/21/00	RE, 1000 - 9000 MHz Maximized Emissions	22.917(e)	Pass	-5dB @ 1669.878 MHz
12/27/00	Temperature Vs. Frequency	22.355	Pass	
12/27/00	Voltage Vs. Frequency	22.355	Pass	Battery end point is 4.5Vdc

Abbreviations Used: RE - Radiated Emissions, CE- Conducted Emissions, RI - Radiated Immunity, CI - Conducted Immunity, ESD - Electrostatic Discharge, EFT - Electrical Fast Transients, VDI - Voltage Dips and Interrupts

			EM	C lest Data
Client	Standard Communication	IS	Job Number:	J41061
Model:	CMM 7700 & 8700		I-Log Number:	141217
			Proj Eng:	David Bare
Contact:	Micheal Malin			N1/A
Emissions Spec:	FCC 22 (Cellular)		Class:	N/A
Immunity Spec:	Enter immunity spec on c	cover	Environment:	
The EUT is a Cellular r and monitoring devices as table-top equipment	adio module which is designed Normally, the EUT would during testing to simulate	General Description gned to transmitt data from d be placed on a table top the end user environment	N vendor machines, credit of during operation. The EU . The electrical rating of th	ard transactions, GPS, T was, therefore, treated e FUT 12 Vdc.
Manufacturor	Modol	Equipment Under Te	st Sorial Number	ECCID
individuitie	CMM 7700 and 8700			TCCID
anulau ommunications				
The EUT does not hav	e a main enclouser, but dc deep by 1.3462 cm high.	Other EUT Details EUT Enclosure bes have shields for the RF	circuit section. It measure	es approximately 4.9784
cm wide by 11.176 cm				
cm wide by 11.176 cm		Modification History	/	
cm wide by 11.176 cm Mod. #	Test D	Modification History	Modificaiton	
cm wide by 11.176 cm Mod. # 1	Test D	Modification History	Modificaiton	
cm wide by 11.176 cm Mod. # 1 2	Test D	Modification History	Modificaiton	

Client	Standard Communications	5	Job Number:	J41061
Model:	CMM 7700 & 8700		T-Log Number:	T41217
			Proj Eng:	David Bare
Contact:	Micheal Malin			
Emissions Spec:	FCC 22 (Cellular)		Class:	N/A
Immunity Spec:	Enter immunity spec on co	over	Environment:	
	Test	t Configuratio	n #1	
	Lo	cal Support Equipm	ent	
Manufacturer	Model	Description	Serial Number	FCC ID
None	None	None	None	None
None	None	None	None	None
NONE	NUTE	NOTE	NUTE	NUTIE
	 	EUT Interface Ports		
ELIT Dort	Connected To	Doscription	Cable(s)	od Longth(m)
None	None	None		
		noration During Em	iccionc	

	o I 11				
Client: Standard	Communications		Job	Number: J41061	
Model: CMM 770	0 & 8700		T-Log	Number: 41217	
				Proj Eng: David Bare	<u>;</u>
Contact: Micheal M	lalin				
Spec: FCC 22 (0	Cellular)			Class: N/A	
	Sectio	n 2.1046: RF	Power		
est Specifics					
Objective:	The objective of this test session specification listed above.	on is to perform final qua	alification testing	of the EUT with resp	ect to th
Date of Test:	12/27/00	Confia. Use	d: 1		
	/ / / / /	000 mg. 000	·		
Test Engineer:	imartinez	Config Chang	e: None		
Test Engineer: Test Location: General Test Cor The EUT and all loc Receiver. A 20-dB	jmartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei	e: None e: 12 Vdc iing. The Eut wa ver.	is connected directly	to Test
Test Engineer: Test Location: General Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition	jmartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31%	ie: None ie: 12 Vdc iing. The Eut wa	is connected directly	to Test
Test Engineer: Test Location: eeneral Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res	jmartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31%	e: None e: 12 Vdc ing. The Eut wa ver.	is connected directly	to Test
Test Engineer: Test Location: eneral Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1	jmartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31% Limit 22.917(a)	e: None e: 12 Vdc iing. The Eut wa ver. Result Pass	is connected directly	to Test
Test Engineer: Test Location: eneral Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31% Limit 22.917(a) 22.917(a)	e: None e: 12 Vdc ing. The Eut wa ver. Result Pass Pass	is connected directly Comment Level 0 Level 1	to Test
Test Engineer: Test Location: General Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2 # 3	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output Power Output	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31% Limit 22.917(a) 22.917(a) 22.917(a)	e: None e: 12 Vdc ing. The Eut wa ver. Result Pass Pass Pass	S connected directly Comment Level 0 Level 1 Level 2	to Test
Test Engineer: Test Location: Test Location: The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2 # 3 # 4	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output Power Output Power Output	Config Chang EUT Voltage ated on the table for tes he EUT and Test Recei : 23°C : 31% Limit 22.917(a) 22.917(a) 22.917(a) 22.917(a)	e: None e: 12 Vdc iing. The Eut wa ver. Pass Pass Pass Pass	Comment Level 0 Level 1 Level 2 Level 3	to Test
Test Engineer: Test Location: eneral Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2 # 3 # 4 # 5	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output Power Output Power Output Power Output	Config Chang EUT Voltag ated on the table for tes he EUT and Test Recei : 23°C : 31% Limit 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a)	e: None e: 12 Vdc iing. The Eut wa ver. Pass Pass Pass Pass Pass Pass	Comment Level 0 Level 1 Level 2 Level 3 Level 4	to Test
Test Engineer: Test Location: General Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2 # 3 # 4 # 5 # 6	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output Power Output Power Output Power Output Power Output Power Output	Config Chang EUT Voltage ated on the table for tess he EUT and Test Recei : 23°C : 31% Limit 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a)	e: None e: 12 Vdc ing. The Eut wa ver. Pass Pass Pass Pass Pass Pass Pass	Comment Level 0 Level 1 Level 2 Level 3 Level 4 Level 5	to Test
Test Engineer: Test Location: General Test Cor The EUT and all loc Receiver. A 20-dB mbient Condition ummary of Res Plot # 1 # 2 # 3 # 4 # 5 # 6 # 7	imartinez SVOATS #2 nfiguration cal support equipment were loca attenuator was used between t ons: Temperature Rel. Humidity ults Test Performed Power Output Power Output	Config Chang EUT Voltage ated on the table for tess he EUT and Test Receit : 23°C : 31% Limit 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a) 22.917(a)	e: None e: 12 Vdc ing. The Eut wa ver. Pass Pass Pass Pass Pass Pass Pass Pas	Comment Level 0 Level 1 Level 2 Level 3 Level 4 Level 5 Level 6	to Test

No deviations were made from the requirements of the standard.









Client: Standard Model: CMM 770 Contact: Micheal W Spec: FCC 22 (C est Specifics Objective:	Dtt Communications D & 8700 alin Cellular) Section 2.104 The objective of this test session	49: Occupied	Jc T-Lc Bandw	EM b Number: g Number: Proj Eng: Class: idth	C Test D <i>i</i> J41061 41217 David Bare N/A
Client: Standard Model: CMM 770 Contact: Micheal W Spec: FCC 22 (C est Specifics Objective:	Communications D & 8700 alin Cellular) Section 2.104 The objective of this test session	49: Occupied	Jc T-Lc Bandw	b Number: g Number: Proj Eng: Class: idth	J41061 41217 David Bare N/A
Model: CMM 770 Contact: Micheal W Spec: FCC 22 (C est Specifics Objective:	alin Cellular) Section 2.104 The objective of this test session	49: Occupied	T-Lc Bandw	g Number: Proj Eng: Class: idth	41217 David Bare N/A
Contact: Micheal M Spec: FCC 22 (C est Specifics Objective:	alin Sellular) Section 2.104 The objective of this test session	49: Occupied	Bandw	Proj Eng: Class: idth	David Bare
Contact: Micheal M Spec: FCC 22 (C est Specifics Objective:	alin Cellular) Section 2.10 4 The objective of this test session	49: Occupied	Bandw	Class:	N/A
Spec: FCC 22 ((est Specifics Objective:	Section 2.104 The objective of this test session	49: Occupied	Bandw	Class: idth	N/A
est Specifics Objective:	Section 2.104	49: Occupied	Bandw	idth	
est Specifics Objective:	The objective of this test session				
Objective:	The objective of this test session				
Date of Test	specification listed above.	n is to perform final quali	fication testin	g of the EU	T with respect to the
Test Engineer:	12/27/00 jmartinez	Config. Used: Config Change:	: 1 : None		
Test Location:	SVOATS #2	EUT Voltage:	: 12 Vdc		
mbient Conditio	ns: Temperature: Rel. Humidity:	23°C 31%			
	Test Derformed	1 514	Desult	Carr	
Plot # 0	Iest Performed		Result	Widob	iment
# 9		22.917(u)	газз	WILLEDA	
odifications Ma No modifications we eviations From No deviations were	de During Testing: ere made to the EUT during testi The Standard made from the requirements of	ng the standard.			



Client: Standard C					
	ommunications		Jo	b Number: J41061	
wodei: CMM / 700	& 8700		I-Lo	g Number: 41217	
Cantaat Mishaal Ma	lin			Proj Eng: David Bare	
Section	2.1051: Spuriou	s emission a	at the An	tenna Termin	al
est Specifics					
Objective: T s	The objective of this test session pecification listed above.	n is to perform final qua	alification testing	g of the EUT with respec	t to th
Date of Test: 1	2/27/00	Config. Use	ed: 1		
Test Engineer: jr	martinez	Config Chang	e: None		
Test Location: S	SVOATS #2	EUT Voltag	je: 12 Vdc		
Summary of Resu	lts				
Plot	Test Performed	Limit	Result	Comment	
# 10	Out-Of-Band	22.917(e)	Pass	Wideband data	
	Mobile Emission	22.917 (f)	Pass	Wideband data	
Summary of Resu Plot # 10	Its Test Performed Out-Of-Band Mobile Emission	Limit 22.917(e) 22.917 (f)	Result Pass Pass	Comment Wideband data Wideband data	



Clienti Standard	Communications			LIVIC I USU
Model: CMM 770			 	og Number: J41061
			1-1	Proj Eng: David Bare
Contact: Micheal M	1alin			, , ,
Spec: FCC 22 (Cellular)			Class: N/A
Sec	tion 2.1053: Field	strenght of \$	Spurio	us emissions
Test Specifics				
Objective:	The objective of this test session is specification listed above.	is to perform final qual	ification test	ing of the EUT with respec
Date of Test:	12/21/00	Config. Used	: 1	
Test Engineer:	jmartinez SVOATS #2	Config Change	: None	
		_0		
Seneral Test Con The EUT was locat	nfiguration ed on the turntable for radiated em	nissions testing.		
On the OATS, the r	neasurement antenna was located	d 3m from the EUT for	the frequence	cy range 1 - 10 GHz.
Note, preliminary measurement anter of the measuremen	testing indicates that the emissions nna. Maximized testing indicated t antenna, <u>and</u> manipulation of the	s were maximized by o that the emissions we e EUT's interface cable	rientation of re maximize es.	the EUT and elevation of d by orientation of the EUT
Ambient Conditi	nns. Temperature: 2	1°C		
	Rel. Humidity: 3	5%		
Summary of Res	ults			
Run #	Test Performed	Limit	Result	Margin
1	RE, 1000 - 9000 MHz Maximized Emissions	22.917(e)	Pass	-5dB @ 1669.878 MHz
Addifications Ma	Ide During Testing:	a		
Iodifications Ma No modifications w	ade During Testing: ere made to the EUT during testing	9		
Iodifications Ma No modifications w Deviations From	ade During Testing: ere made to the EUT during testing The Standard	g		

	711;	htt						_	C Tool Data
$\boldsymbol{\mathcal{C}}$		π						EIV	ic rest Data
Client:	Standard	Commur	nications				-	Job Number:	J41061
Model:	CMM 770	0 & 8700)				T-L	og Number:	41217
								Proj Eng:	David Bare
Contact:	Micheal N	lalin							
Spec:	FCC 22 (0	Cellular)						Class:	N/A
									·
CMM 8700									
Run #1: M	aximized	reading	s, 1000 - 90	00 MHz					
Harmonic r	neasurmer	nts of the	Fudamenta	I Frequenc	y of 834.99 N	/Hz	11.2.64	0	
Frequency		Pol	FCC A	FCC A	Detector	Azimuth	Height	Comments	
IVIHZ	αβήλ/μ	V/n		Iviargin	PK/QP/AVg	degrees	meters	Doolerood	na nooli limit
1669.878	/9.4	V	84.4	-5.0	PK Dk	329 F	1.1	Peak read	ng, peak limit
2504.910	00.4 42.0	V	84.4	-19.0	PK Dk	5 12E	1.1	Peak readi	ng, peak limit
3340.040	03.8	V	84.4	-20.0	PK	130	1.1	Apolyzor M	ng, peak innit
5010 072								Analyzer N	
58/5 163								Analyzer N	
6680.000								Analyzer N	loise floor
7515 000								Analyzer N	loise floor
8350,000								Analyzer N	loise floor
1669.883	75.4	Н	84.4	-9.0	Pk	208	1.1	Peak readi	ng, peak limit
2504.976	64.1	H	84.4	-20.3	Pk	192	1.1	Peak readi	ng, peak limit
3340.006	64.8	Н	84.4	-19.6	Pk	130	1.1	Peak readi	ng, peak limit
4174.930								Analyzer N	loise floor
5010.072								Analyzer N	loise floor
5845.163								Analyzer N	loise floor
6680.000								Analyzer N	loise floor
7515.000								Analyzer N	oise floor
8350.000								Analyzer N	loise floor

v Lm	011			EM	C lest L
Client: Standard	d Communications		J	ob Number:	J41061
Model: CMM 77	00 & 8700		T-L	og Number:	41217
Cantast Mishaal	Malia			Proj Eng:	David Bare
				Class	NI/A
Spec. FCC 22				Class.	IN/A
	Section 2.105	5: Frequer	ncy Stab	ility	
Test Specifics					
Objective	The objective of this test session is specification listed above.	to perform final qu	alification testir	ng of the EU	T with respect to t
Date of Test	: 12/27/00	Config. Us	ed: 1		
Test Engineer	: jmartinez	Config Chan	ge: None		
Test Location	I: SVOATS #2	EUT Volta	ge: 12 Vdc		
The EUT and all le Receiver. A 20-d	pocal support equipment were located B attenuator was used between the E	on the table for tes UT and Test Rece	sting. The Eut v iver.	vas connect	ted directly to Tes
Ambient Condit	ions: Temperature: N/	Ą			
	Rel. Humidity: N/	Δ			
		•			
Summary of Re	sults				
Summary of Re	sults Test Performed	Limit	Result	Con	nment
Summary of Re Run # 1a & 1b	Sults Test Performed Temperature Vs. Frequency	Limit 22.355	Result Pass	Con	nment
Summary of Re Run # 1a & 1b 2a & 2b	Test Performed Temperature Vs. Frequency Voltage Vs. Frequency	Limit 22.355 22.355	Result Pass Pass	Con Battery e 4.5	nment end point is 5Vdc

Y Y	2111C	DTT			EM	C Test Dat
Client:	Standard C	ommunications			Job Number:	J41061
Model:	CMM 7700	& 8700			T-Log Number:	41217
					Proj Eng:	David Bare
Contact:	Micheal Ma	llin			, , , , , , , , , , , , , , , , , , , ,	
Spec:	FCC 22 (Ce	ellular)			Class:	N/A
Run# 1a: 1	[emperature	e Vs. Frequency				
2.5ppm * 8	334.99 = 208	37.475 Hz				
emperature	Drift	Limit	7			
(Celsius)	(Hz)	(Hz)				
-30	-450.0	2087.475	1			
-20	-310.0	2087.475]			
-10	-108.0	2087.475				
0	4.0	2087.475				
10	46.0	2087.475				
20	451.0	2087.475				
30	-345.0	2087.475	_			
40	-850.0	2087.475	_			
E0	-1240.0	2087.475				
<u> </u>	1140.0	2087 475	-			
60	1140.0	2087.475]			
60	1140.0	2087.475	1			
60 Run# 1b: 1	1140.0	2087.475 e Vs. Power				
60 Run# 1b: 1	1140.0	2087.475 e Vs. Power				
60 Run# 1b: 1	1140.0 Temperature Power = 35	2087.475 e Vs. Power dBm	1			
60 Run# 1b: 1 Reference emperature	1140.0 Temperature Power = 35 Deviation	2087.475 e Vs. Power dBm <u>Power</u> (dBm)	1			
60 Run# 1b: 1 Reference emperature (Celsius)	1140.0 Femperature Power = 35 <u>Deviation</u> (dB) 0.03	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 25.2				
60 Run# 1b: 1 Reference emperature (Celsius) -30 -20	1140.0 Femperature Power = 35 <u>Deviation</u> (dB) 0.03 0.23	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 25.4				
60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10	1140.0 Femperature Power = 35 Deviation (dB) 0.03 0.23 -0.07	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 25 1				
30 60 Run# 1b: 7 Reference emperature (Celsius) -30 -20 -10 0	1140.0 Temperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34 5				
30 60 Run# 1b: 7 Reference emperature (Celsius) -30 -20 -10 0 10	1140.0 Temperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2				
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20	1140.0 Femperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 34.7				
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 30	1140.0 Perperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 34.7 35.2				
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 30 40	1140.0 Perperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.03	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 34.7 35.2 34.7 35.2 35.2 35.2				
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 30 40 50	1140.0 Femperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.03 0.13	2087.475 e Vs. Power dBm (dBm) 35.2 35.4 35.1 34.5 35.2 34.7 35.2 34.7 35.2 35.2 35.2 35.2 35.2 35.2 35.3				
30 30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -30 -20 -10 0 10 20 30 40 50 60 60 60	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35				
30 30 60 60 60 60 Reference emperature (Celsius) -30 -20 -10 0 -20 -10 0 10 20 30 40 50 60 60	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 34.7 35.2 35.2 35.2 35.2 35.2 35.3 35.3				
30 30 60 60 60 60 Reference emperature (Celsius) -30 -20 -10 0 -20 -10 0 10 20 30 40 50 60 60	1140.0 remperature Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.2 35.2 34.5 35.2 34.7 35.2 35.2 35.2 35.2 35.3 35.3				
30 30 60 60 60 60 Reference emperature (Celsius) -30 -20 -10 0 10 20 30 40 50 60	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 34.7 35.2 35.2 35.2 35.2 35.3 35.3 35.3				
30 60 Run# 1b: 1 Reference imperature (Celsius) -30 -20 -10 0 10 20 30 -20 -10 0 -30 -20 -10 0 10 20 30 40 50 60 Run# 2a: \ Battery end	1140.0 Perint of the second	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.2 35.2 34.7 35.2 35.2 35.2 35.2 35.2 35.2 35.3 35.3	stated by the manufacturer	Νο Γεριμα	ancy drift occurred only	nower decreased as
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 30 40 50 60 Run# 2a: N Battery encomposition	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.13 0.016	2087.475 e Vs. Power dBm (dBm) 35.2 35.4 35.1 34.5 35.2 34.7 35.2 35.2 35.2 35.2 35.2 35.2 35.3 35.3	stated by the manufacturer.	. No freque	ency drift occurred, only	power decreased as
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 -10 0 10 20 30 40 50 60 Run# 2a: \ Battery encovoltage decovoltage deco	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 35.2 35.2 35.2 35.2 35.3 35.3	stated by the manufacturer.	. No freque	ency drift occurred, only	power decreased as
30 60 Run# 1b: 1 Reference emperature (Celsius) -30 -20 -10 0 10 20 -10 0 10 20 30 40 50 60	1140.0 Power = 35 Deviation (dB) 0.03 0.23 -0.07 -0.67 0.03 -0.47 0.03 0.13 0.016	2087.475 e Vs. Power dBm <u>Power</u> (dBm) 35.2 35.4 35.1 34.5 35.2 35.2 35.2 35.2 35.2 35.3 35.3 Frequency Vdc. This will be	stated by the manufacturer.	. No freque	ency drift occurred, only	power decreased as

Elliott

EMC Test Data

Client: Standard Communications

Model: CMM 7700 & 8700

Job Number: J41061

T-Log Number: 41217 Proj Eng: David Bare

Contact: Micheal Malin Spec: FCC 22 (Cellular)

Class: N/A

Run# 2b: Voltage Vs. Frequency

Nomianl Voltage is 12Vdc.

5		
Voltage	Drift	<u>Limit</u>
(Dc)	(Hz)	(Hz)
80%	1.0	2087.475