### GENERAL INFORMATION REQUIREMENTS

Paragraph 2.983(a)

Name of Applicant: Nucomm, Inc.

Address of Applicant: 101 Bilby Road

Hackettstown, NJ 07840

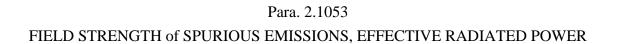
Name of Manufacturer: Nucomm, Inc.

Paragraph 2.983(b)

Equipment

Identification: FCC ID: I4U23VT2L

Applicant: Nucomm, Inc. FCC ID: I4U23VT2L



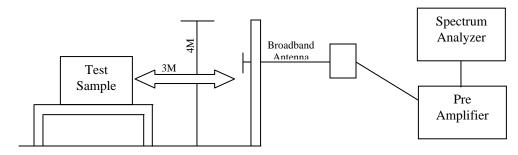
#### FIELD STRENGTH of SPURIOUS EMISSIONS, EFFECTIVE RADIATED POWER (Para. 2.1053)

#### A. Measurement Procedure:

The spurious emissions of the transmitter from 10 kHz to 40 GHz were measured in accordance with TIA/EIA603, Paragraph 2.2.1.2 as described below:

The transmitter under test was placed on an 80-cm high non-metallic table on the Open Air Test Site with its antenna terminated into a shielded load. A receive antenna was placed three meters away from the transmitter. The turntable was rotated 360 degrees and the receive antenna was raised and lowered from 1 to 4 meters until a maximum reading was obtained at each spurious emission detected. This reading was recorded. The transmitter under test was replaced with a dipole (or equivalent antenna) and signal generator. The signal generator was set to the frequency for the spurious emission. The level of the signal generator was increased until the level was equal to that previously measured. The required input level from the signal generator in dBm was recorded and the antenna gain (in dB) of the transmit antenna was added. This was the Effective Radiated Power of the spurious emission.

### Setup of the test is shown below:



Applicant: Nucomm, Inc. FCC ID: I4U23VT2L

## **EQUIPMENT LISTS**

# TIA/EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz to 26 GHz)

EN	Туре	Manufacturer	Description	Model No.	Cal Date	<b>Due Date</b>
067	Open Area Test Site	Retlif	3 Meter	RNY	10/1/2003	10/1/2006
1007	10.0 dB Attenuator	Narda	DC - 18 GHz	776C-10	11/29/2005	11/29/2006
1009	30.0 dB Attenuator	Narda	DC - 18 GHz	776C-30	11/29/2005	11/29/2006
128C	Double Ridge Guide	Eaton Corporation	1 GHz - 18 GHz	96001	8/17/2005	8/17/2006
129D	High Gain Horn Antenna	Microlab/FXR	12.4 GHz - 18 GHz	Y638A	9/16/2005	9/16/2006
129F	High Gain Horn Antenna	Microlab/FXR	18 GHz - 26.5 GHz	K638A	9/16/2005	9/16/2006
141	Spectrum Analyzer	Hewlett Packard	100 Hz - 40 GHz	8566B	8/28/2005	2/28/2006
141A	Graphics Plotter	Hewlett Packard	N/A	7470A	2/9/2006	2/9/2007
141B	Quasi-Peak Adaptor	Hewlett Packard	100 Hz - 1 GHz	85650A	8/28/2005	2/28/2006
141C	Cable	Retlif	1 GHz ~ 18 GHz	1 METER, BLUE	1/4/2006	1/4/2007
141D	Cable	Retlif	1 GHz ~ 18 GHz	10 METER, BLACK	1/4/2006	1/4/2007
399	Log Periodic Antenna	Antenna Research	1 GHz - 12 GHz	LPD-112	9/28/2005	9/28/2006
420	Amplifier	Hewlett Packard	2.0 GHz - 18 GHz	11975A	10/31/2005	10/31/2006
421	Harmonic Mixer	Hewlett Packard	18 GHz - 26.5 GHz	11970K	9/29/2003	9/29/2006
450A	Tuned Dipole Antenna	Empire Devices	30 - 140 MHz	DM-105-T1	8/12/2003	8/12/2006
450B	Tuned Dipole Antenna	Empire Devices	140 - 400 MHz	DM-105-T2	8/12/2003	8/12/2006
523	Biconilog	Electro-Mechanics	26 - 2000 MHz	3142B	11/10/2005	11/10/2006
543	Preamplifier	Hewlett Packard	1.0 GHz - 26.5 GHz	8449B	9/9/2005	9/9/2007
648A	Power Meter	<b>Boonton Electronics</b>	10 kHz - 100 GHz	4232A	6/7/2005	6/7/2006
649	Power Sensor	Boonton Electronics	10 kHz - 8 GHz	51011-EMC	4/20/2005	4/20/2006
712A	Cable	Retlif	10 kHz - 18 GHz	R&S Analyzer	1/21/2005	7/21/2006
712B	Cable	Retlif	10 kHz - 18 GHz	R&S Analyzer	1/21/2005	7/21/2006
711	Microwave Sweeper	Gigatronics	500 MHz - 20 GHz	GT9000S/.5-20	10/18/2005	10/18/2006
723	H.P. Filter	Mini-Circuits	1 GHz	BHP-1000	7/20/2005	7/20/2006

Applicant: Nucomm, Inc. FCC ID: I4U23VT2L

### TEST SETUP PHOTOGRAPHS



Applicant: Nucomm, Inc. FCC ID: I4U23VT2L



## RADIATED SPURIOUS EMISSIONS TEST DATA

Applicant: Nucomm, Inc. FCC ID: I4U23VT2L

Test Metho	d:	TIA	A / EIA-603-199	92. Section 2.:	2.12. Radiate	d Spu	rious En	nission	s (30 MI	Hz – 26 GHz	:)
Customer:			comm, Inc.	,	,			b No.	R-1120		,
Test Sampl	e.		ital/Analog EN	IG/OB \/an Tr	ansmitter			al No.	20001-		
Model No.:	· · ·	_	WSCASTER \		anomitto			C ID:	I4U23\		
Woder No			lor bars plus a		war Channal	1 Die					hannala
Operating I	Mode:		nsmitting at 1		wer, Channel	ı, Dig	Jitai COF	יאו ואוט-	odulatio	n, 17 Mi⊟∠ Ci	nanneis
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	stanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental lev	vel = -13dBm	1
					Signal	G	ain				
	Antenr		EUT	Meter	Generator		bove		ıble		
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm
00.00											40.0
30.00											-13.0
	-				1						
<u> </u>											
l l											
135.0	V / 1.0	)	315.0	75.1	-26.5		2.2	0	.9	-23.4	
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8	
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6	
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4	<u> </u>
405.0	H / 1.0		225.0	60.5	-33.3	:	2.2	2	.2	-28.9	i
3848.0	V / 1.0	C	158.0	53.1	-41.4		7.0	4	.5	-29.9	i
3852.0	H / 1.0	0	158.0	57.8	-36.3		7.0	4	.5	-24.8	
											1
											1
											1
<del>                                     </del>											<del>                                     </del>
	-				1						1 !
l											
26000.00											-13.0
	1										10.0
	The EU	T wa	s placed on a	tabletop, and	the radiated of	utput	level wa	as mea	sured w	ith a receive	•
			er the level wa								
			he level of the								•
	this plus	the	antenna gain	and cable fac	tor was consid	dered	the outp	out pow	er.		
	All emis	sion	s not recorded	were more th	an 20 dB belo	ow the	e limit.				<u> </u>
				· · · · · · · · · · · · · · · · · · ·							

Test Metho	d:	TIA	A / EIA-603-199	92. Section 2.	2.12. Radiate	d Spu	ırious Er	nission	s (30 MF	lz – 26 GHz	)
Customer:			comm, Inc.	, , , , , ,	,	- 1 -		b No.	R-1120		,
Test Sampl	e.		gital/Analog EN	IG/OB Van Tr	ansmitter			al No.	20001-		
Model No.:		_	WSCASTER \		anomico			C ID:			
Woder No.			lor bars plus a		wor Channel	7 Di					nannole
Operating I	Mode:		ansmitting at 2	, , ,	wer, Charmer	7, DI	gital COI	יואו ואוט	Juulatioi	I, I / IVII IZ CI	iailieis
Technician			Soodoo					Date:	Februa	ry 14, 2006.	
Notes:		stand	ce: 3 Meters	Temp: 1	5°C Humidity	: 229				,	
	Detecto			•	(43 + 10 log F			undam	ental lev	el = -13dBm	1
					Signal		Gain				
	Antenr	na	EUT	Meter	Generator		bove	Ca	ıble		
Test Freq.	Positio	n	Orientation	Readings	Reading	Isc	otropic	Fa	ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	C	IB	dBm	dBm
30.00											-13.0
											1
405.0	V / 4 /		245.0	75.4	00.5		0.0	0	. 0	00.4	
135.0	V / 1.0 V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4	<u> </u>
162.0 175.0	V / 1.0		158.0 315.0	75.1 63.2	-24.8 -34.9		2.2 2.2		.0	-21.6 -31.8	
189.0	V / 1.0		90.0	59.4	-34.9		2.2		.9	-31.6	
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4	
405.0	H / 1.		225.0	60.5	-33.3		2.2		.2	-28.9	
3953.0	H / 1.		158.0	55.6	-35.5		7.4		.6	-23.5	
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	-										
					1						
26000.00	-										-13.0
∠0000.00											-13.0
	The FII	T wa	as placed on a	tableton and	the radiated o	outou	t level w	as mea	sured w	ith a receive	1
			ter the level wa								
			he level of the								_
			antenna gain								
			s not recorded								

Test Metho	d:	TIA	A / EIA-603-199	92, Section 2.:	2.12, Radiate	d Spu	ırious Er	nission	s (30 MF	lz – 26 GHz	)		
Customer:		1	comm, Inc.	<u>,</u>	, ::::::::	-		b No.	R-1120		,		
Test Sampl	e:		· · · · · · · · · · · · · · · · · · ·	alog ENG/OB Van Transmitter Serial No. 20001-007 STER VT2 FCC ID: I4U23VT2L rs plus audio, High power, Channel 10, Digital COFDM Modulation, 17 MHZ channel at 2492.5 MHz									
Model No.:			<u> </u>		anomico								
Woder No.					wer Channel	10 F					channels		
Operating I	Mode:				wer, Orianner	10, L	Jigitai O	OI DIVI I	viodulati	OII, 17 WII 12	CHAINICIS		
Technician		R.	Soodoo					Date:	Februa	ry 14, 2006.			
Notes:	Test Dis	stand	ce: 3 Meters	Temp: 1	5°C Humidity	: 22%	l						
	Detecto	r: Pe	eak	•	, (43 + 10 log F			undam	ental lev	rel = -13dBm	1		
					Signal		Gain						
	Antenr	na	EUT	Meter	Generator		bove	Ca	able				
Test Freq.	Position	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT		
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	C	IB	dBm	dBm		
30.00											-13.0		
	-												
<u> </u>											<del>                                     </del>		
135.0	\/ / 4 /	0	215.0	75 1	26 F		2.2	0	. 0	22.4			
162.0	V / 1.0 V / 1.0		315.0 158.0	75.1 75.1	-26.5 -24.8		2.2 2.2		.0	-23.4 -21.6			
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8			
189.0	V / 1.0		90.0	59.4	-34.9		2.2		.9	-33.6			
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4			
405.0	H / 1.		225.0	60.5	-33.3		2.2		.2	-28.9			
4345.0	H / 1.0		180.0	66.0	-28.0		7.0		.0	-16.0			
1	117, 11	•									<del>                                     </del>		
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26000.00											-13.0		
20000.00											-13.0		
											+		
	The FU	T wa	as placed on a	tableton, and	the radiated of	outout	t level w	as mea	sured w	ith a receive	1		
			ter the level wa										
			he level of the								_		
			antenna gain										
			s not recorded										

Test Metho	d:	TIA / EIA-603-19	92, Section 2.	2.12, Radiate	d Spurious	s Emissions	s (30 MHz – 26 G	GHz)
Customer:		Nucomm, Inc.				Job No.	R-11200	,
Test Sampl	e:	Digital/Analog El	NG/OB Van Tr	ansmitter	S	Serial No.	20001-007	
Model No.:	-	NEWSCASTER				FCC ID:	I4U23VT2L	
		Color bars plus a		wer, Channel	1, FM Mod			
Operating I	Mode:	Transmitting at		, 		<u>,                                      </u>		
Technician	:	R. Soodoo				Date:	February 14, 20	06.
Notes:	Test Dis	stance: 3 Meters	Temp: 1	5°C Humidity	: 22%			
	Detector	r: Peak	Limit =	(43 + 10 log F	) down fro	om fundame	ental level = -13d	lBm
				Signal	Gain			
	Antenn		Meter	Generator	Above			
Test Freq.	Positio		Readings	Reading	Isotropi	-		
MHz	(V/H) me	eter Degrees	dBuV	dBm	dB	d	B dBm	dBm
30.00								-13.0
<u> </u>	-							
<u> </u>								
135.0	V / 1.0	315.0	75.1	-26.5	2.2	0.	.9 -23.4	
162.0	V / 1.0		75.1	-24.8	2.2		.9 -23.4 .0 -21.6	
175.0	V / 1.0		63.2	-34.9	2.2	0.		
189.0	V / 1.0		59.4	-36.7	2.2	0.	+	
332.0	H / 1.0		60.6	-33.9	2.2		.3 -30.4	
405.0	H / 1.0		60.5	-33.3	2.2	2.		
3848.0	V / 1.0		52.7	-41.4	7.0		.5 -29.9	
3852.0	H / 1.0		58.1	-35.8	7.0	4.	+	
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		s the antenna gain						; LUI allu
		sions not recorde					<b>ы</b> .	
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Test Metho	d:	TIA / EIA-603-19	92, Section 2.	2.12, Radiate	d Spurio	us Emission	s (30 Mł	Hz – 26 GHz	:)
Customer:		Nucomm, Inc.			·	Job No.	R-1120		,
Test Sampl	le:	Digital/Analog El	NG/OB Van Tr	ansmitter		Serial No.	20001-	-007	
Model No.:	-	NEWSCASTER				FCC ID:			
		Color bars plus a		wer, Channel	7, FM M				
Operating I	Mode:	Transmitting at 2			,		1		
Technician	:	R. Soodoo				Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	stance: 3 Meters	Temp: 1	15°C Humidity	: 22%				
	Detecto	r: Peak	Limit =	(43 + 10 log F	P) down f	rom fundam	ental lev	/el = -13dBm	1
				Signal	Gai				
	Antenn		Meter	Generator	Abov	-	able		
Test Freq.	Positio		Readings	Reading	Isotro		ctor	ERP	LIMIT
MHz	(V/H) me	eter Degrees	dBuV	dBm	dE	3 (	dB	dBm	dBm
00.00									40.0
30.00									-13.0
1									
				<del> </del>					
135.0	V / 1.0	315.0	75.1	-26.5	2.2	(	).9	-23.4	1
162.0	V / 1.0		75.1	-24.8	2.2		1.0	-21.6	
175.0	V / 1.0		63.2	-34.9	2.2		).9	-31.8	
189.0	V / 1.0		59.4	-36.7	2.2		).9	-33.6	
332.0	H / 1.0		60.6	-33.9	2.2		.3	-30.4	
405.0	H / 1.0		60.5	-33.3	2.2		2.2	-28.9	
3953.0	V / 1.0		50.6	-44.4	7.3		1.6	-32.5	
3954.0	H / 1.0	0 158.0	55.5	-37.8	7.3		1.6	-25.9	i
<del>                                     </del>									
<u> </u>									
26000.00				1					-13.0
2000.00				1					10.0
	The EU	T was placed on a	a tabletop, and	the radiated	output le	vel was mea	sured w	ith a receive	<u> </u>
	_	a. After the level w							
	1	or. The level of the							
		s the antenna gain							
		sions not recorde							
	*								

Test Metho	۷٠	ΤΙΔ	A / EIA-603-199	22 Section 2	2.12 Radiate	d Sni	ırious En	niesion	s (30 M)	Hz _ 26 GHz	)
	<b>ч.</b>		comm, Inc.	, OGUIUII Z	L. IZ, Naulaiei	а орс			R-112		<i>!</i>
Customer:			· · · · · · · · · · · · · · · · · · ·	IC/OD Vara Ta	onomitto:			b No.			
Test Sampl	e:	_	gital/Analog EN		ansmitter			al No.	20001		
Model No.:			WSCASTER \		01 1	40 5		C ID:	14U23		
Operating I	Mode:		lor bars plus at 24		wer, Channel	10, F	M Modul	ation, 1	I / MHZ	channels	
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	
Notes:	Test Dis	stanc	ce: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log F	) dov	vn from f	undam	ental le	vel = -13dBm	1
					Signal		Gain				
	Antenr	na	EUT	Meter	Generator	Α	bove	Ca	ıble		
Test Freq.	Position	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	C	IB	dBm	dBm
30.00											-13.0
											1
135.0	V / 1.0	0	315.0	75.1	-26.5		2.2	0	.9	-23.4	
162.0	V / 1.0	)	158.0	75.1	-24.8		2.2	1	.0	-21.6	
175.0	V / 1.0	0	315.0	63.2	-34.9		2.2	0	.9	-31.8	
189.0	V / 1.0	0	90.0	59.4	-36.7		2.2	0	.9	-33.6	
332.0	H / 1.	0	158.0	60.6	-33.9		2.2	1	.3	-30.4	
405.0	H / 1.	0	225.0	60.5	-33.3		2.2		.2	-28.9	1
4344.0	V / 1.0	)	135.0	64.7	-29.3	,	7.0	4	.8	-17.5	
											1
<u> </u>											+ !
<u>l</u>											+ !
<u> </u>											
26000.00											12.0
∠6000.00											-13.0
	The EU	T 14/2	ne placed on a	tablatan and	the radiated a	l Sutsut	t lovel ···	10 maa	cured	ith a receive	
			as placed on a								
			er the level wa								•
			he level of the antenna gain							u iioiii liie El	ווע מווע
			s not recorded					out pow	<del>∪</del> 1.		
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Test Metho	d:	TIA	/ EIA-603-199	92, Section 2.:	2.12, Radiated	d Spu	rious Er	nission	s (30 M	Hz – 26 GHz	)	
Customer:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Nucomm, Inc.  Digital/Analog ENG/OB Van Transmitter  NEWSCASTER VT2  TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Job No.  R-11200  Serial No. 20001-007  FCC ID: I4U23VT2L										
Test Sampl	le:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007		
Model No.:		_	WSCASTER \				FC	C ID:	I4U23	VT2L		
			lor bars plus a		wer, Channel	1, Dig					relo	
			annels 12 MHz		cing plan.							
Operating I	Mode:	Tra	insmitting at 2	013.5 MHz.								
Technician	:	R. :	Soodoo					Date:	Februa	ary 14, 2006.		
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	ak	Limit =	(43 + 10 log F	) dow	n from f	undam	ental le	vel = -13dBm	1	
					Signal		Sain				1	
i	Antenn	ıa	EUT	Meter	Generator	Al	bove	Ca	ıble			
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm	
30.00											-13.0	
											1	
135.0	V / 1.0		315.0	75.1	-26.5	:	2.2		.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	1	
175.0	V / 1.0	)	315.0	63.2	-34.9	:	2.2	0	.9	-31.8	1	
189.0	V / 1.0	-	90.0	59.4	-36.7		2.2		.9	-33.6		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4		
405.0	H / 1.0	)	225.0	60.5	-33.3	:	2.2	2	.2	-28.9		
											1	
											1	
										1		
<u> </u>												
26000.00										1	100	
26000.00											-13.0	
											+	
	The EU	T 14/0	ne placed on a	tablatan and	the radiated a	l Nutrous	lovel	no maa	cured	vith a receive		
			s placed on a	•								
			er the level wa he level of the									
	1		antenna gain							u nom me Et	וע מווע	
			s not recorded					out pow	<del>с</del> і.			
	VII GIIII2	SIUIR	3 1101 15001464	WEIE HIUIE II	iaii 20 UD DEIC	אע נוונ	z mintl.					

Test Metho	d:	TIA	A / EIA-603-199	92, Section 2.:	2.12, Radiated	d Spu	rious Er	nission	s (30 M	Hz – 26 GHz	2)		
Customer:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Nucomm, Inc.  Digital/Analog ENG/OB Van Transmitter  NEWSCASTER VT2  TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Job No.  R-11200  Serial No. 20001-007  FCC ID: I4U23VT2L											
Test Sampl	le:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007			
Model No.:		_	WSCASTER \				FC	C ID:	I4U23	VT2L			
			lor bars plus a		wer, Channel	2, Dig					relo		
			annels 12 MHz		cing plan								
Operating I	Mode:	Tra	ensmitting at 2	043.5 MHz.									
Technician	:	R. :	Soodoo					Date:	Februa	ary 14, 2006.			
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6						
	Detecto	r: Pe	eak	Limit =	(43 + 10 log F	) dow	n from f	undam	ental le	vel = -13dBm	1		
					Signal		Sain						
	Antenr	ıa	EUT	Meter	Generator		bove	Ca	ıble				
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT		
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm		
30.00											-13.0		
135.0	V / 1.0		315.0	75.1	-26.5	:	2.2		.9	-23.4	1		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	1		
175.0	V / 1.0	)	315.0	63.2	-34.9	:	2.2	0	.9	-31.8			
189.0	V / 1.0	-	90.0	59.4	-36.7		2.2		.9	-33.6	1		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4			
405.0	H / 1.0	)	225.0	60.5	-33.3	:	2.2	2	.2	-28.9			
											1		
											1 .		
<u> </u>											1 .		
<u> </u>											+ !		
<u> </u>													
36000.00											12.0		
26000.00											-13.0		
	The EU	T 14/0	e placed on a	tableton and	the radiated a	l Nutrout	lovol w	ac maa	cured w	vith a roccino	1		
			as placed on a er the level wa	•									
	generator. The level of the generator was raised until it matched the level recorded from the EUT and this plus the antenna gain and cable factor was considered the output power.												
			s not recorded					ou pow	<b>⊡</b> 1.				
	VII GIIIIS	SIUIR	3 1101 16001060	WEIE HIUIE II	iaii 20 UD DEIC	אע נוונ	z mintl.						

Customer: Nucomm, Inc.			Iala Nia									
			Job No.	R-11200	)							
Test Sample: Digital/Analog ENG/OB Van Tra	al/Analog ENG/OB Van Transmitter  /SCASTER VT2  r bars plus audio, High power, Channel 3, Digital COFDM Modulation, New BAS relounels 12 MHz channel spacing plan.											
Model No.: NEWSCASTER VT2			FCC ID:	14U23V7	Γ2L							
		3, Digital	COFDM M	odulation,	New BAS	relo						
	ing plan.											
Operating Mode: Transmitting at 2055.5 MHz.												
Technician: R. Soodoo			Date:	February	y 14, 2006.	•						
Notes: Test Distance: 3 Meters Temp: 15	5°C Humidity:	22%										
Detector: Peak Limit = (	43 + 10 log P	) down f	rom fundam	ental leve	l = -13dBm	າ						
	Signal	Gair										
Antenna EUT Meter	Generator	Abov	-	able	EDD							
Test Freq. Position Orientation Readings	Reading	Isotrop		ctor	ERP	LIMIT						
MHz (V/H) meter Degrees dBuV	dBm	dB	C	IB	dBm	dBm						
20.00						12.0						
30.00						-13.0						
						1 1						
135.0 V / 1.0 315.0 75.1	-26.5	2.2	0	.9	-23.4	i						
162.0 V / 1.0 158.0 75.1	-24.8	2.2		.0	-21.6							
175.0 V / 1.0 315.0 63.2	-34.9	2.2	0	.9	-31.8	i						
189.0 V / 1.0 90.0 59.4	-36.7	2.2	0	.9	-33.6	i						
332.0 H / 1.0 158.0 60.6	-33.9	2.2	1	.3	-30.4							
405.0 H / 1.0 225.0 60.5	-33.3	2.2	2	2.2	-28.9							
3902.0 V / 1.0 68.0 53.9	-41.3	7.0	4	.5	-29.8							
						1						
						1 .						
						1 .						
26000.00						-13.0						
The EUT was placed on a tabletop, and t	the radiated c	output lev	el was mea	sured witl	h a receive	;						
antenna. After the level was maximized,												
generator. The level of the generator was	s raised until i	it matche	ed the level i	recorded f	from the El	JT and						
this plus the antenna gain and cable factor				er.								
All emissions not recorded were more that	an 20 dB belo	w the lin	nit.									

Customer:   Nucomm, Inc.   Job No.   R-11200	est Method:	:	TIA / EIA-603-	1992, Section 2	2.2.12, Radiate	d Spu	rious Er	nission	s (30 M	IHz – 26 GHz	<u>z</u> )		
NEWSCASTER VT2	ustomer:		Digital/Analog ENG/OB Van Transmitter Serial No. 20001-007										
NEWSCASTER VT2	est Sample	:	Digital/Analog	ENG/OB Van 7	Fransmitter		Seria	al No.	20001	I-007			
Channels 12 MHz channel spacing plan. Transmitting at 2067.5 MHz.							FC	C ID:	I4U23	VT2L			
Transmitting at 2067.5 MHz.   Technician:   R. Soodoo   Date:   February 14, 2006.   Notes:   Test Distance: 3 Meters   Detector: Peak   Limit = (43 + 10 log P) down from fundamental level = -13dBm   Signal   Gain   Above   Factor   ERP   LiMIT   MHz   (V/H) meter   Degrees   dBuV   dBm   dB   dB   dBm			Color bars plu	s audio, High p	ower, Channel	4, Dig	gital COF	DM Mo	odulatio	on, New BAS	relo		
Notes:   R. Soodoo   Date:   February 14, 2006.   Notes:   Test Distance: 3 Meters Detector: Peak   Limit = (43 + 10 log P) down from fundamental level = -13dBm   Cable   Factor   Factor   ERP   LIMIT   Meter   Degrees   dBuV   dBm   dB   dBm													
Notes:	perating Me	ode:	Transmitting	at 2067.5 MHz.	•								
Detector: Peak	echnician:		R. Soodoo					Date:	Febru	ary 14, 2006	•		
Antenna   EUT   Meter   Readings   Gain   Above   Isotropic   Factor   ERP   LIMIT	otes:	Test Dis	tance: 3 Meters	s Temp:	15°C Humidity	/: 22 <sup>9</sup> /	6						
Test Freq.         Antenna Position         EUT Orientation         Meter Readings         Generator Reading Isotropic         Above Isotropic         Cable Factor         ERP         LIMIT           MHz         (V/H) meter         Degrees         dBuV         dBm         dB         dB         dBm         dBm           30.00         Image: Compact of the compac		Detector	r: Peak	Limit =	= (43 + 10 log F	P) dow	vn from f	undam	ental le	evel = -13dBn	n		
Test Freq.         Position         Orientation         Readings         Reading         Isotropic         Factor         ERP         LIMIT           MHz         (V/H) meter         Degrees         dBuV         dBm         dB         dB         dBm         dBm           30.00         Image: Control of the control of													
MHz         (V/H) meter         Degrees         dBuV         dBm         dB         dB         dBm         dBm           30.00         -13.0										500			
30.00 -13.0						ISO							
135.0	MHz	(V/H) me	ter Degrees	dBuV	dBm	<u> </u>	dB	О	IB	dBm	dBm		
	20.00										40.0		
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6	30.00					-					-13.0		
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6						+							
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6													
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6													
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6													
162.0     V / 1.0     158.0     75.1     -24.8     2.2     1.0     -21.6             175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8             189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6	135 0	V / 1 0	315.0	75.1	-26.5		2 2	0	9	-23 4			
175.0     V / 1.0     315.0     63.2     -34.9     2.2     0.9     -31.8       189.0     V / 1.0     90.0     59.4     -36.7     2.2     0.9     -33.6													
189.0 V / 1.0 90.0 59.4 -36.7 2.2 0.9 -33.6													
332.0 H/1.0 158.0 60.6 -33.9 2.2 1.3 -30.4					_	_					i		
_ 002.0	332.0	H / 1.0	158.0	60.6	-33.9	2	2.2	1	.3	-30.4	i		
405.0 H / 1.0 225.0 60.5 -33.3 2.2 2.2 -28.9	405.0	H / 1.0	225.0	60.5	-33.3	:	2.2	2	.2	-28.9	İ		
3919.0 V / 1.0 135.0 51.9 -41.4 7.0 4.5 -29.9	3919.0	V / 1.0	135.0	51.9	-41.4		7.0	4	.5	-29.9			
											1		
											1		
											+		
	+					1					1		
						1							
						+							
26000.00 -13.0	26000 00										-13.0		
											10.0		
											1		
The EUT was placed on a tabletop, and the radiated output level was measured with a receive		The EU1	T was placed or	n a tabletop, an	d the radiated	output	level w	as mea	sured v	with a receive	)		
antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal			•										
generator. The level of the generator was raised until it matched the level recorded from the EUT and													
this plus the antenna gain and cable factor was considered the output power.													
All emissions not recorded were more than 20 dB below the limit.		All emiss	sions not record	ded were more	than 20 dB bel	ow the	e limit.						

<b>Test Metho</b>	d:	TIA	A / EIA-603-199	92, Section 2.:	2.12, Radiated	d Spu	rious Er	nission	s (30 M	Hz – 26 GHz	:)			
Customer:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Nucomm, Inc.  Digital/Analog ENG/OB Van Transmitter  NEWSCASTER VT2  TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Job No.  R-11200  Serial No.  20001-007  FCC ID: I4U23VT2L												
Test Sampl	e:		gital/Analog ENG/OB Van Transmitter Serial No. 20001-007											
Model No.:														
					wer, Channel	5, Dig					relo			
					cing plan									
Operating N	Mode:	Tra	ensmitting at 2	079.5 MHz.										
Technician	•	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı			
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6							
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1			
					Signal	G	Bain							
	Antenn		EUT	Meter	Generator		bove		ble					
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT			
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	В	dBm	dBm			
30.00											-13.0			
L											1			
											1			
105.0	24/4/		0.45.0	75.4	00.5		0.0			00.4				
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4				
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6				
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8				
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6				
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4				
405.0	H / 1.0 V / 1.0		225.0	60.5	-33.3		2.2		.2 .5	-28.9 -33.8				
3924.0	V / 1.0	,	203.0	49.4	-45.3		7.0	4	.5	-55.0				
<u> </u>														
l														
İ														
i											li			
26000.00											-13.0			
	The EU	T wa	as placed on a	tabletop, and	the radiated of	output	level wa	as mea	sured w	vith a receive				
			er the level wa											
			he level of the							d from the El	JT and			
	_		antenna gain					out pow	er.					
	All emis	sion	s not recorded	were more th	nan 20 dB belo	ow the	e limit.							

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:									,		•
Test Sampl	e:		· · · · · · · · · · · · · · · · · · ·	IG/OB Van Tr	ansmitter			al No.	20001		
Model No.:		_	WSCASTER \					C ID:	I4U23		
			lor bars plus a		wer, Channel	6, Dig					relo
			annels 12 MHz		cing plan						
Operating I	Mode:	Tra	ensmitting at 20	091.5 MHz.							
Technician	•	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1
					Signal	G	ain				
	Antenn		EUT	Meter	Generator		bove		ıble		
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm
30.00											-13.0
105.0	1//4/	,	045.0	75.4	00.5		0.0			00.4	
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4	
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	
175.0	V / 1.0		315.0	63.2	-34.9		2.2 2.2		.9	-31.8	
189.0 332.0	V / 1.0 H / 1.0	-	90.0 158.0	59.4 60.6	-36.7 -33.9		2.2 2.2		.9 .3	-33.6 -30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	
3944.0	V / 1.0	-	68.0	51.2	-42.6		7.0		. <u>.</u> .5	-31.1	
3344.0	V / 1.0	,	00.0	31.2	-42.0		7.0		.5	01.1	
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i											l i
i											
j											<u>L</u> i
i i											
26000.00											-13.0
			as placed on a	•							
			er the level wa								
			he level of the							d from the El	JT and
	_		antenna gain					out pow	er.		
	All emis	sions	s not recorded	were more th	nan 20 dB belo	ow the	e limit.				

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00	,
Test Sampl	le:	Dio	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:		_	WSCASTER \					C ID:	I4U23		
			lor bars plus a		wer, Channel	7, Dic					relo
			annels 12 MHz			, ,	,			,	
Operating I	Mode:	Tra	ansmitting at 21	103.5 MHz.							
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	
Notes:	Test Dis	stanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6			·	
	Detecto	r: Pe	eak	•	(43 + 10 log F			undam	ental le	vel = -13dBm	1
					Signal		Gain				
	Antenr	na	EUT	Meter	Generator		oove	Ca	ıble		
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm
30.00											-13.0
											1
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4	
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8	
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6	
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	
3956.0	V / 1.0	)	135.0	51.3	-43.0		7.0	4	.5	-31.5	
										1	
										1	
1											
l I										1	
26000.00											-13.0
20000.00											10.0
	The EU	T wa	as placed on a	tabletop, and	the radiated of	utput	level w	as mea	sured w	vith a receive	<u>l</u>
			er the level wa	•							
			he level of the								
			antenna gain								<u> </u>
			s not recorded								

Test Metho	d:	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00		
Test Sampl	le:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007		
Model No.:		_	WSCASTER \				FC	C ID:	I4U23	VT2L		
			lor bars plus a		wer, Channel	8, Dig					relo	
			annels 12 MHz		cing plan							
Operating I	Mode:	Tra	ansmitting at 24	153.5 MHz.								
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.		
Notes:	Test Dis	stanc	ce: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental le	vel = -13dBm	1	
					Signal	G	ain					
	Antenn	na	EUT	Meter	Generator	Al	oove	Ca	ble			
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	d	В	dBm	dBm	
30.00											-13.0	
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8		
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4		
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9		
4311.0	V / 1.0	)	135.0	62.3	-31.3		7.0	4	.5	-19.8		
<u> </u>											+ !	
											+	
											+	
											1 !	
1											+ +	
<u> </u>											1	
26000.00											-13.0	
20000.00											13.0	
											1	
	The FI	T wa	as placed on a	tableton and	the radiated o	outout	level w	as mea	sured w	ith a receive		
			er the level wa	•								
			he level of the									
			antenna gain								. u.iu	
			s not recorded					pow	<del></del>			
	, 011110	J.J. I.	2.101.10001404		20 00 0010							

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00	
Test Sampl	le:	Dio	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:		_	WSCASTER \					C ID:	I4U23		
			lor bars plus a		wer, Channel	9, Dic					relo
			annels 12 MHz			, ,	,			,	
Operating I	Mode:	Tra	ansmitting at 24	175.5 MHz.							
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	
Notes:	Test Dis	stanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6			-	
	Detecto	r: Pe	eak	Limit =	(43 + 10 log F	) dow	n from f	undam	ental le	vel = -13dBm	1
					Signal		ain				
	Antenr	na	EUT	Meter	Generator		oove	Ca	ıble		
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm
30.00											-13.0
											1
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4	1
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	1
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8	1
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6	
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	
4322.0	V / 1.0	)	180.0	62.7	-30.0		7.0	4	.5	-18.5	
										1	<del>                                     </del>
<u> </u>											+
1											+ + -
l I											+ + -
											+ -
											+ +
1											<del>                                     </del>
26000.00											-13.0
	The EU	T wa	as placed on a	tabletop, and	the radiated of	output	level w	as mea	sured w	vith a receive	
			er the level wa	•							
			he level of the								
			antenna gain								
	All emis	sion	s not recorded	were more th	nan 20 dB belo	ow the	e limit.				

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00	
Test Sampl	e:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:		_	WSCASTER \					C ID:	I4U23'		
		Col	lor bars plus a	udio, High pov	wer, Channel	10, D	igital CC	FDM N	/lodulati	on, New BAS	3 relo
			annels 12 MHz		cing plan						
Operating I	Mode:	Tra	nsmitting at 24	192.5 MHz.							
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1
					Signal		Sain				
	Antenn		EUT	Meter	Generator		bove		ble	555	
Test Freq.	Positio		Orientation	Readings	Reading	ISO	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	C	В	dBm	dBm
20.00											42.0
30.00	-										-13.0
											1 1
I											
135.0	V / 1.0	)	315.0	75.1	-26.5	:	2.2	0	.9	-23.4	1 1
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6	1 1
175.0	V / 1.0		315.0	63.2	-34.9	:	2.2		.9	-31.8	
189.0	V / 1.0	)	90.0	59.4	-36.7	:	2.2	0	.9	-33.6	i i
332.0	H / 1.0	)	158.0	60.6	-33.9	:	2.2	1	.3	-30.4	i
405.0	H / 1.0	)	225.0	60.5	-33.3	2	2.2	2	.2	-28.9	
4344.0	V / 1.0	)	135.0	62.7	-30.7	-	7.0	4	.5	-19.2	
											1
											1
<u> </u>											<del>                                     </del>
	-										+ !
											1 1
											+ +
											+ +
26000.00	1										-13.0
											1
	The EU	T wa	s placed on a	tabletop, and	the radiated of	output	level w	as mea	sured w	vith a receive	
			er the level wa								
			he level of the							d from the El	JT and
			antenna gain					out pow	er.		
	All emis	sions	s not recorded	were more th	nan 20 dB belo	ow the	e limit.				

Test Metho	d:	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00		
Test Sampl	e:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007		
Model No.:		•	WSCASTER \					C ID:	I4U23'			
			lor bars plus a		wer, Channel	1, FM					ls 12	
		MH	Iz channel spa	cing plan								
Operating I	Mode:	Tra	ensmitting at 20	031.5 MHz.								
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.		
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1	
					Signal	(	ain					
i	Antenn	ıa	EUT	Meter	Generator	Al	bove	Ca	ble			
Test Freq.	Positio	n	Orientation	Readings	Reading	Iso	tropic	Fa	ctor	ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	d	В	dBm	dBm	
30.00											-13.0	
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8		
189.0	V / 1.0	-	90.0	59.4	-36.7		2.2		.9	-33.6		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4		
405.0	H / 1.0	-	225.0	60.5	-33.3		2.2		.2	-28.9		
3883.0	V / 1.0	)	135.0	54.3	-40.3		7.0	4	.5	-28.8		
<u> </u>											+ !	
	-										+ !	
											1 !	
	-											
1											+ +	
<u> </u>											+ 1	
26000.00											-13.0	
20000.00											13.0	
											1	
	The FII	T wa	as placed on a	tableton and	the radiated o	outout	level w	as mea	sured w	vith a receive		
			er the level wa	•								
			he level of the									
			antenna gain								. u.iu	
			s not recorded					- 31 pow				
	, , 011110	J.J. I	2.101.10001404		20 00 0010							

	d: TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Nucomm, Inc. Job No. R-11200  e: Digital/Analog ENG/OB Van Transmitter Serial No. 20001-007										
Customer:		Nucomm, Inc.				Jo	b No.	R-112	00		
Test Sample:	1	Digital/Analog El	NG/OB Van Tr	ansmitter		Seria	al No.	20001	-007		
Model No.:		NEWSCASTER	VT2			FC	C ID:	I4U23	VT2L		
		Color bars plus a		wer, Channel	2, FM	l Modula	tion, N	ew BAS	relo channe	ls 12	
		MHz channel spa									
Operating Mo		Transmitting at 2	043.5 MHz.								
Technician:		R. Soodoo					Date:	Februa	ary 14, 2006.		
Notes:	Test Dist	ance: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detector	: Peak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1	
				Signal		ain	_				
Table Francis	Antenna		Meter	Generator		oove		ıble	EDD		
Test Freq.	Position		Readings	Reading	ISO	tropic		ctor	ERP	LIMIT	
MHz (	(V/H) met	er Degrees	dBuV	dBm		dB		IB	dBm	dBm	
20.00										12.0	
30.00										-13.0	
135.0	V / 1.0	315.0	75.1	-26.5	:	2.2	0	.9	-23.4		
162.0	V / 1.0		75.1	-24.8	-	2.2		.0	-21.6		
175.0	V / 1.0		63.2	-34.9	1	2.2		.9	-31.8	i	
189.0	V / 1.0	90.0	59.4	-36.7	:	2.2	0	.9	-33.6	i	
332.0	H / 1.0	158.0	60.6	-33.9	:	2.2	1	.3	-30.4	i	
405.0	H / 1.0	225.0	60.5	-33.3	:	2.2	2	.2	-28.9	1	
										1	
										1	
					-						
					-						
26000.00										-13.0	
										10.0	
7	The EUT	was placed on a	tabletop, and	the radiated of	output	level w	as mea	sured w	ith a receive	<u> </u>	
		After the level wa	•								
		r. The level of the									
		the antenna gain									
	All emiss	ions not recorded	d were more th	an 20 dB belo	ow the	e limit.					

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nuc	comm, Inc.				Jo	b No.	R-112	00	
Test Sampl	e:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:			WSCASTER \					C ID:	I4U23		
		Col	or bars plus a	udio, High pov	wer, Channel	3, FM	Modula	tion, N	ew BAS	relo channe	ls 12
			lz channel spa								
Operating I	Mode:	Tra	nsmitting at 20	)55.5 MHz.							
Technician	:	R. 9	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	ak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1
					Signal		Sain				
	Antenn		EUT	Meter	Generator		bove		ıble		
Test Freq.	Positio		Orientation	Readings	Reading	ISO	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	ter	Degrees	dBuV	dBm		dB	О	IB .	dBm	dBm
00.00											400
30.00	-										-13.0
											+
											+
135.0	V / 1.0	1	315.0	75.1	-26.5		2.2		.9	-23.4	1
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.9 .0	-23.4	+ +
175.0	V / 1.0	_	315.0	63.2	-34.9		2.2		.0 .9	-31.8	+ +
189.0	V / 1.0	_	90.0	59.4	-34.9		2.2		.9	-33.6	+ +
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	1 1
3908.0	V / 1.0		0.0	52.1	-44.2		7.0		.5	-32.7	1 1
1			0.0	<u> </u>				-		0=	1 1
i											
i											1 1
i											
I											
I											Ī
26000.00											-13.0
					ļ						1
			s placed on a	•							
			er the level wa								
			he level of the							d from the El	Jiand
			antenna gain					out pow	er.		
	All emis	sions	s not recorded	were more th	ian zu dB beld	w the	e iimit.				

Test Metho	d:	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00		
Test Sampl	le:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007		
Model No.:		NE	WSCASTER \	/T2			FC	C ID:	I4U23'	VT2L		
			lor bars plus a		wer, Channel	4, FM	Modula	tion, N	ew BAS	relo channe	ls 12	
			lz channel spa									
Operating I	Mode:	Tra	ensmitting at 20	067.5 MHz.								
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı	
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental le	vel = -13dBm	1	
					Signal		ain					
	Antenr		EUT	Meter	Generator		oove		ıble			
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm	
											1	
30.00											-13.0	
					-							
105.0	24.4		0.45.0	75.4	00.5		0.0			00.4		
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8		
189.0	V / 1.0		90.0	59.4	-36.7		2.2		.9	-33.6		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4		
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2 .5	-28.9 -30.7	+ + +	
3914.0	V / 1.0	,	180.0	51.5	-42.2		7.0	4	.5	-30.7	+ + + -	
											+ + +	
I												
											+ + +	
											+ -	
l I											1	
											+ -	
											+ -	
											1 1	
ı											<del>                                     </del>	
l											<del>                                      </del>	
26000.00											-13.0	
	The EU	T wa	s placed on a	tabletop, and	the radiated of	output	level w	as mea	sured w	vith a receive		
			er the level wa	•								
			he level of the									
			antenna gain									
	All emis	sion	s not recorded	were more th	an 20 dB belo	ow the	e limit.			· · · · · · · · · · · · · · · · · · ·		

Test Metho	d:	TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)  Nucomm, Inc.  Job No. R-11200										
Customer:				•	,				•		,	
Test Sampl	e:		ital/Analog EN	IG/OB Van Tr	ansmitter			al No.	20001			
Model No.:			WSCASTER \					C ID:	I4U23\			
			or bars plus a		wer. Channel	5. FM					ls 12	
		MH	lz channel spa	cing plan	,	,		•				
Operating I	Mode:	Tra	nsmitting at 20	)79.5 MHz.								
Technician	:	R. \$	Soodoo					Date:	Februa	ary 14, 2006.		
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	ak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental lev	vel = -13dBm	1	
					Signal	G	ain					
	Antenn		EUT	Meter	Generator		oove		ıble			
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT	
MHz	(V/H) me	ter	Degrees	dBuV	dBm		dB	С	IB	dBm	dBm	
00.00											40.0	
30.00					-						-13.0	
135.0	V / 1.0	)	315.0	75.1	-26.5	:	2.2	0	.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0		315.0	63.2	-34.9	2	2.2	0	.9	-31.8		
189.0	V / 1.0	)	90.0	59.4	-36.7	2	2.2	0	.9	-33.6	i i	
332.0	H / 1.0	)	158.0	60.6	-33.9	2	2.2	1	.3	-30.4	i	
405.0	H / 1.0	)	225.0	60.5	-33.3	4	2.2	2	.2	-28.9		
					-						+	
	1											
											1	
	1										1 1	
26000.00											-13.0	
			s placed on a									
			er the level wa									
			he level of the	-						d from the El	JT and	
			antenna gain					out pow	er.			
	All emis	sions	s not recorded	were more th	an 20 dB belo	ow the	e limit.					

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00	
Test Sampl	e:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:		NE	WSCASTER \	/T2			FC	C ID:	I4U23'	VT2L	
			lor bars plus a		wer, Channel	6, FM	Modula	tion, N	ew BAS	relo channe	ls 12
			lz channel spa								
Operating I	Mode:	Tra	ensmitting at 20	079.5 MHz.							
Technician	:	R.	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1
					Signal		Sain				
	Antenn		EUT	Meter	Generator		bove		ble		
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	С	В	dBm	dBm
00.00											40.0
30.00											-13.0
<u> </u>											1 .
<u> </u>											<u> </u>
135.0	V / 1.0	,	315.0	75.1	-26.5		2.2		0	-23.4	
162.0	V / 1.0		158.0	75.1 75.1	-26.5		2.2 2.2		<u>.9</u> .0	-23.4	
175.0	V / 1.0		315.0	63.2	-34.9		2.2 2.2		.0 .9	-31.8	
189.0	V / 1.0		90.0	59.4	-34.9		2.2		.9 .9	-33.6	
332.0	H / 1.0	-	158.0	60.6	-33.9		2.2		. <u></u> .3	-30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	
3940.0	V / 1.0	-	180.0	52.3	-42.7		7.0		. <u>2</u> .5	-31.2	1
1	V / 1.		100.0	02.0	12.7		7.0	•	.0		
											1
i											i
i											i
j											<u>L</u> i
j											
26000.00											-13.0
			as placed on a	•							
			er the level wa								
			he level of the							d from the El	JT and
	_		antenna gain					out pow	er.		
	All emis	sions	s not recorded	were more th	ian 20 dB belo	ow the	e iimit.				

Test Metho	Nucomm, Inc. Job No. R-11200										
Customer:		Nu	comm, Inc.				Jo	b No.	R-112	00	
Test Sampl	e:	Dig	ital/Analog EN	IG/OB Van Tr	ansmitter		Seria	al No.	20001	-007	
Model No.:			WSCASTER \				FC	C ID:	I4U23	VT2L	
			lor bars plus a		wer, Channel	7, FM	Modula	tion, N	ew BAS	relo channe	ls 12
			lz channel spa								
Operating I	Mode:	Tra	insmitting at 2°	103.5 MHz.							
Technician	:	R. 3	Soodoo					Date:	Februa	ary 14, 2006.	ı
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6				
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	vn from f	undam	ental le	vel = -13dBm	1
					Signal		ain				
1	Antenn		EUT	Meter	Generator		bove		ble		
Test Freq.	Positio		Orientation	Readings	Reading	Iso	tropic		ctor	ERP	LIMIT
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	c	В	dBm	dBm
											1
30.00	-										-13.0
<u> </u>	-										1 .
<u> </u>	1										1 .
											<del>                                     </del>
135.0	V / 1.0	,	315.0	75.1	-26.5		2.2		.9	-23.4	+
162.0	V / 1.0		158.0	75.1 75.1	-24.8		2.2 2.2		.9 .0	-23.4	
175.0	V / 1.0		315.0	63.2	-34.9		2.2 2.2		.0 .9	-31.8	
189.0	V / 1.0		90.0	59.4	-34.9		2.2		.9 .9	-33.6	
332.0	H / 1.0	-	158.0	60.6	-33.9		2.2		.3	-30.4	
405.0	H / 1.0		225.0	60.5	-33.3		2.2		.2	-28.9	
3955.0	V / 1.0	-	225.0	52.1	-42.1		7.0		.5	-30.6	
1				<u> </u>				-			1 1
i											
i											1 1
i											
26000.00											-13.0
											1
			s placed on a	•							
			er the level wa								
			he level of the							a from the El	וע and
			antenna gain					out pow	er.		
	All emis	SIOUS	s not recorded	were more th	iaii zu ub belo	אכ נוופ	; IIIIIII.				

Test Method:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)										
Customer:		Nucomm, Inc.						b No.	R-11200			
Test Sample:		Digital/Analog ENG/OB Van Transmitter						Serial No.		20001-007		
Model No.:		NEWSCASTER VT2 FCC ID:   14U23VT2L										
		Color bars plus audio, High power, Channel 8, FM Modulation, New BAS relo channels 12										
			Iz channel spa									
Operating I	Mode:	Transmitting at 2458.5 MHz.										
Technician	:	R. Soodoo Date: February 14, 2006.									1	
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	ak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental le	vel = -13dBm	1	
					Signal		Gain		]			
T F	Antenn		EUT Orientation	Meter	Generator		otropic Fac		able	EDD		
Test Freq.	Positio			Readings	Reading	ISO				ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB dI		IB dBm		dBm	
20.00											12.0	
30.00											-13.0	
<u> </u>												
<u> </u>												
											+ +	
135.0	V / 1.0	)	315.0	75.1	-26.5	2	2.2	0	.9	-23.4	1 :	
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0	)	315.0	63.2	-34.9	2	2.2	0	.9	-31.8	Ti	
189.0	V / 1.0	)	90.0	59.4	-36.7	2	2.2	0	.9	-33.6	1	
332.0	H / 1.0	)	158.0	60.6	-33.9	2	2.2	1	.3	-30.4		
405.0	H / 1.0	)	225.0	60.5	-33.3	2	2.2	2	.2	-28.9		
4308.0	V / 1.0	)	135.0	61.3	-33.5	-	7.0	4	.5	-22.0		
											1 .	
<u> </u>											+ !	
											1 1	
26000.00											-13.0	
	The EUT was placed on a tabletop, and the radiated output level was measured with a receive										!	
			er the level wa									
	generator. The level of the generator was raised until it matched the level recorded from the EUT and										JT and	
	_		antenna gain					out pow	er.			
	All emissions not recorded were more than 20 dB below the limit.											

Test Method:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)										
Customer:		Nucomm, Inc.						b No.	R-11200			
Test Sample:		Digital/Analog ENG/OB Van Transmitter						Serial No.		20001-007		
Model No.:		NEWSCASTER VT2 FCC ID: 14U23VT2L										
		Color bars plus audio, High power, Channel 9, FM Modulation, New BAS relo channels 12										
			Iz channel spa									
Operating I	Mode:	Transmitting at 2475.5 MHz.										
Technician	:	R. Soodoo Date: February 14, 2006.									1	
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	ak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental le	vel = -13dBm	1	
					Signal		Gain		]			
T F	Antenn		EUT Orientation	Meter	Generator		otropic Fac		able	EDD		
Test Freq.	Positio			Readings	Reading	ISO				ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB dI		IB dBm		dBm	
20.00											12.0	
30.00											-13.0	
<u> </u>												
<u> </u>												
135.0	V / 1.0	)	315.0	75.1	-26.5	2	2.2	0	.9	-23.4	1 :	
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0	)	315.0	63.2	-34.9	2	2.2	0	.9	-31.8	Ti	
189.0	V / 1.0	)	90.0	59.4	-36.7	2	2.2	0	.9	-33.6	1	
332.0	H / 1.0	)	158.0	60.6	-33.9	2	2.2	1	.3	-30.4		
405.0	H / 1.0	)	225.0	60.5	-33.3	2	2.2	2	.2	-28.9		
4327.0	V / 1.0	)	135.0	63.4	-30.1	-	7.0	4	.5	-18.6		
											1 .	
<u> </u>											+ !	
											1 1	
26000.00											-13.0	
	The EUT was placed on a tabletop, and the radiated output level was measured with a receive										!	
			er the level wa									
	generator. The level of the generator was raised until it matched the level recorded from the EUT and										JT and	
	_		antenna gain					out pow	er.			
	All emissions not recorded were more than 20 dB below the limit.											

Test Method:		TIA / EIA-603-1992, Section 2.2.12, Radiated Spurious Emissions (30 MHz – 26 GHz)										
Customer:		Nucomm, Inc.						b No.	R-11200			
Test Sample:		Digital/Analog ENG/OB Van Transmitter						Serial No.		20001-007		
Model No.:		NEWSCASTER VT2 FCC ID: 14U23VT2L										
		Color bars plus audio, High power, Channel 10, FM Modulation, New BAS relo channels 12										
		MHz channel spacing plan										
Operating I	Mode:	Transmitting at 2492.5 MHz.										
Technician	:	R. :	R. Soodoo Date: February 14, 2006.									
Notes:	Test Dis	tanc	e: 3 Meters	Temp: 1	5°C Humidity	: 22%	6					
	Detecto	r: Pe	eak	Limit =	(43 + 10 log P	) dow	n from f	undam	ental le	vel = -13dBm	ı	
					Signal	(	Gain					
i	Antenn	ıa	EUT	Meter	Generator	Al			able			
Test Freq.	Test Freq. Position		Orientation	Readings	Reading	Iso			ctor	ERP	LIMIT	
MHz	(V/H) me	eter	Degrees	dBuV	dBm		dB	dB d		dBm	dBm	
30.00											-13.0	
135.0	V / 1.0		315.0	75.1	-26.5		2.2		.9	-23.4		
162.0	V / 1.0		158.0	75.1	-24.8		2.2		.0	-21.6		
175.0	V / 1.0		315.0	63.2	-34.9		2.2		.9	-31.8		
189.0	V / 1.0	-	90.0	59.4	-36.7		2.2		.9	-33.6		
332.0	H / 1.0		158.0	60.6	-33.9		2.2		.3	-30.4		
405.0	H / 1.0	-	225.0	60.5	-33.3		2.2		.2	-28.9		
4340.0	V / 1.0	)	135.0	63.9	-29.1		7.0	4	.5	-17.6		
<u> </u>											1 .	
											1 .	
1												
<u> </u>											+ + +	
26000.00											-13.0	
20000.00											13.0	
											+	
	The EUT was placed on a tabletop, and the radiated output level was measured with a receive antenna. After the level was maximized, the EUT was replaced with a transmit antenna and a signal generator. The level of the generator was raised until it matched the level recorded from the EUT and											
	1		antenna gain								z . a.i.a	
								pow	<u> </u>			
	All emissions not recorded were more than 20 dB below the limit.											