

TEST REPORT NO: RU1282/7342

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FCC ID: OE5PP2

# REPORT ON THE CERTIFICATION TESTING OF A GROUP 4 TECHNOLOGY Ltd PROXIPEN WITH RESPECT TO THE FCC RULES CFR 47, PART 15.209 INTENTIONAL RADIATOR SPECIFICATION

TEST DATE: 1<sup>st</sup> November – 10<sup>th</sup> November 2006

TESTED BY:		S HODGKINSON
APPROVED BY:		J CHARTERS
		RADIO SECTION LEADER
DATE:	19 <sup>th</sup> December 2006	

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# **CONTENTS**

**PAGE** 

CERTIF	CATE OF CONFORMITY & COMPLIANCE	3		
APPLICA	4			
EQUIPM	ENT TEST CONDITIONS	5		
TESTS I	REQUIRED	5		
TEST RI	ESULTS	6-9		
		ANNEX		
PHOTO	GRAPHS	Α		
PHC	DTOGRAPH No. 1: Test setup			
PHC	TOGRAPH No. 2: Transmitter Top View			
PHO	TOGRAPH No. 3: Transmitter Side View			
PHC	TOGRAPH No. 4: Transmitter PCB Top Side			
PHC	TOGRAPH No. 5: Transmitter PCB Bottom Side			
APPLICA	ANT'S SUBMISSION OF DOCUMENTATION LIST	В		
BAND O	CCUPANCY PLOT	С		
30MHz -	- 1000MHz SCAN PLOT	D		
TEST E	QUIPMENT CALIBRATION	Е		
MEASU	REMENT UNCERTAINTY	F		
Notes:				
1.	Component failure during test	YES NO	[ ] [X]	
2.	If Yes, details of failure:	INO	[^]	
		00 11:4:4		
3.	The facilities used for the testing of the product contain in this report are FCC Listed.			

4.

The contents of the attached applicants declarations and other supplied information are not covered by the scope of this laboratory's UKAS or FCC accreditations' and is provided in good faith.



Page 3 of 26

# **CERTIFICATE OF CONFORMITY & COMPLIANCE**

FCC IDENTITY:	OE5PP2					
PURPOSE OF TEST:	Certification					
TEST SPECIFICATION:	FCC RULES CFR 47, Part 15.209					
TEST RESULT:	Compliant to Specification					
EQUIPMENT UNDER TEST:	Proxipen					
EQUIPMENT SERIAL No:	001					
ITU: EMISSION CODE:	10k7K1N					
EQUIPMENT TYPE:	Inductive Tag Read	der				
PRODUCT USE:	Time and Location	Verifica	ation			
CARRIER EMISSION:	0.001µV/m @ 300i	m				
ANTENNA TYPE:	Integral					
ALTERNATIVE ANTENNA:	Not applicable					
FREQUENCY OF OPERATION:	125.95 kHz					
CHANNEL SPACING:	Not applicable					
NUMBER OF CHANNELS:	1					
FREQUENCY GENERATION:	SAW Resonator	[X]	Crystal	[]	Synthesise	er[]
MODULATION METHOD:	Amplitude	[]	Digital	[X]	Angle	[]
POWER SOURCE(s):	1.2Vdc					
TEST DATE(s):	1 <sup>st</sup> – 10 <sup>th</sup> Novembe	er 2006				
ORDER No(s):	PUR76701					
APPLICANT:	Group 4 Technolog	gy Limit	ed			
ADDRESS:	Building 2 Challenge House International Drive Tewkesbury Gloucestershire GL20 8UQ					
TESTED BY:					S HODGKIN	SON
APPROVED BY:					J CHARTER RADIO SEC LEADER	

RU1282/7342

TRL RF335U iss01B

### **APPLICANT'S SUMMARY**

**EQUIPMENT UNDER TEST (EUT):** Proxipen Inductive Tag Reader **EQUIPMENT TYPE:** 001 SERIAL NUMBER OF EUT: PURPOSE OF TEST: Certification TEST SPECIFICATION(s): FCC RULES CFR 47, Part 15.209 TEST RESULT: COMPLIANT Yes [X] No APPLICANT'S CATEGORY: MANUFACTURER IMPORTER DISTRIBUTOR TEST HOUSE **AGENT** PUR76701 APPLICANT'S ORDER No(s): APPLICANT'S CONTACT PERSON(s): Mr E Porter E-mail address: eric.porter@g4tec.com APPLICANT: Group 4 Technology Limited Building 2 Challenge House ADDRESS: International Drive Tewkesbury Gloucestershire **GL20 8UQ** TEL: +44 (0) 1684 850977 FAX: +44 (0) 1684 277500 MANUFACTURER: Group 4 Technology Limited EUT(s) COUNTRY OF ORIGIN: United Kingdom **TEST LABORATORY:** TRL Compliance UKAS ACCREDITATION No: 0728 1<sup>st</sup> - 10<sup>th</sup> November 2006 TEST DATE(s): TEST REPORT No: RU1282/7342

# **EQUIPMENT TEST / EXAMINATIONS REQUIRED**

1.	TEST/EXAMINATION	RULE PART	DETECTOR	APPLICABILITY
	Intentional Emission Frequency:	15.209(a)	Average	Yes
	Intentional Emission Field Strength:	15.209(a)	Average	Yes
	Intentional Emission Band Occupancy:	15.215(c)	Peak	Yes
	Intentional Emission ERP (mW):	-	-	No
	Spurious Emissions – Conducted:	15.207	Quasi Peak Average	No
	Spurious Emissions – Radiated <1000MHz:	15.209	Quasi Peak Average	Yes
	Spurious Emissions – Radiated >1000MHz:	-	-	No
	Maximum Frequency of Search:	15.33	-	Yes
	Antenna Arrangements Integral:	15.203	-	Yes
	Antenna Arrangements External Connector:	15.204	-	Yes
	Restricted Bands:	15.205	-	Yes
	Extrapolation Factor:	15.31(f)	-	Yes

2.	Product Use:	Time and Location Ve	erification
3.	Emission Designator:	10k7K1N	
4.	Duty Cycle:		<100%
5.	Transmitter bit or pulse rate and level:		19200bps
6.	Temperatures:	Ambient (Tnom)	15°C
7.	Supply Voltages:	Vnom	+1.2Vdc
	Note: Vnom voltages are as stated above unless other	rwise shown on the tes	t report page
8.	Equipment Category:	Single channel Two channel Multi-channel	[X] [ ] [ ]
9.	Channel spacing:	Narrowband Wideband	[ ] [X]

#### TRANSMITTER TESTS

#### TRANSMITTER SPURIOUS EMISSIONS - RADIATED - PART 15.209

Ambient temperature =  $15^{\circ}$ C(<1GHz) 3m measurements <30MHz [X] Relative humidity = 42% (<1GHz), 3m measurements <1GHz [X] Conditions = Open Area Test Site (OATS) 300m extrapolated from 3m [X]

Supply voltage = +1.2Vdc

Channel number = 1

	FREO I	CABLE LOSS (dB)	ANT FACT (dB)	FIELD STRENGTH (dBµV/m)	EXTRAP FACTOR (dB)	FIELD STRENGTH (μV/m)	
0.009MHz - 0.49MHz			No Significa	nt Emissions Detecte	ed		
0.49MHz - 1.705MH	2		No Significa	nt Emissions Detecte	ed		
1.705MHz - 30MHz			No Significa	nt Emissions Detect	ed		
30MHz - 88MHz			No Significa	nt Emissions Detect	ed		
88MHz - 216MHz			No Significa	nt Emissions Detecte	ed		
216MHz - 960MHz			No Significa	nt Emissions Detecte	ed		
960MHz - 1GHz			No Significa	nt Emissions Detect	ed		
1GHz - 5GHz			No Significa	nt Emissions Detecte	ed		
	0.009MHz to 0.49	MHz		2400/F(kHz)	@ 300m		
	0.49MHz to 1.705	MHz		24000/F(kHz	z)@ 30m		
	1.705MHz to 30N	ИHz		30µV/m@	0 30m		
	30MHz to 88MH	Hz		100µV/m	@ 3m		
Limits	88MHz to 216M	Hz	150µV/m@ 3m				
	216MHz to 960M	ИHz		200µV/m	@ 3m		
	960MHz to 1GH	960MHz to 1GHz 500μV/m@ 3m					
	1GHz to 5GHz	Z		500μV/m	@ 3m		

### Notes:

- 1 Results quoted are extrapolated as indicated.
- 2 Emissions were searched to: (x) 1000MHz inclusive, as per Part 15.33a.
- 3 Extrapolation factor 9.5dB from 1m to 3m, as per Part 15.31f.
- 4 Extrapolation factor 80dB from 3m to 300m as per Part 15.31f.
- 5 Extrapolation factor 40dB from 3m to 30m as per Part 15.31f.
- 6 Measurements >1GHz @ 1m as per Part 15.31f(1).
- 7 Receiver detector 9kHz 30MHz CISPR, Quasi-Peak,10kHz bandwidth.

  Apart from the bands 9kHz-90kHz and 110kHz-490kHz where an Average detector is used.
- 8 Receiver detector 30MHz 1GHz = CISPR, Quasi-Peak, 120kHz bandwidth.
- 9 Receiver detector >1GHz = Peak Hold, 1MHz resolution bandwidth.
- 10 New batteries used for battery powered products.
- 11 Emissions 20dB's below the limit are not recorded.
- 12 For emissions below 30MHz, the measuring receiver automatically compensates for the loss due to the antenna factor of the loop antenna. This loss is 20dB's across the measurement range 9kHz to 30MHz.
- 13 For emissions below 30MHz the cable losses are assumed to be negligible.
- 14 F(kHz) is the frequency of operation or spurious emission.

### Test

- 1 As per Radio Noise Emissions, ANSI C63.4: 2003.
- 2 Measuring distances as Notes 1 to 4 above.
- 3 EUT 0.8 metre above ground plane.
- 4 Emissions maximised by rotation of EUT, on an automatic turntable. Raising and lowering the receiver antenna between 1m & 4m >30MHz. Horizontal and vertical polarisations, of the receive antenna. EUT orientation in three orthagonal planes. Maximum results recorded.

The test equipment used for the Transmitter Spurious Emissions – Radiated – Part 15.209 tests is shown overleaf:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
AE, LOOP, Z2, 9kHz - 30MHz	ROHDE & SCHWARZ	HFH2	881058 - 53	07	х
HORN ANTENNA	EMCO	3115	9010-3580	138	
HORN ANTENNA	EMCO	3115	9010-3581	139	
SPECTRUM ANALYSER	TEKTRONIX	2756P	B010109	164	
BICONE ANTENNA	CHASE	BBA9106	N/A	193	
ANTENNA, LOG PERIODIC 300MHz – 1GHz	CHASE	UPA6108	1061	203	
RECEIVER	ROHDE & SCHWARZ	ESHS20	837960/003	237	
ANTENNA, BICONE 20MHz - 300MHz	CHASE	VBA6106A	1193	251	
BILOG ANTENNA	CHASE	CBL6112	2098	274	
RECEIVER	ROHDE & SCHWARZ	ESVS10	837948/003	317	
RECEIVER	ROHDE & SCHWARZ	ESVS10	844594/003	352	
RECEIVER	ROHDE & SCHWARZ	ESHS10	844077/019	353	
V / UHF RECEIVER 20MHz - 1GHz	ROHDE & SCHWARZ	ESVS 20	838804 / 005	415	
BILOG ANTENNA	SCHAFFNER	CBL6112B	2761	431	
RECEIVER	ROHDE & SCHWARZ	ESHS 10	830051/001	UH03	х
RECEIVER	ROHDE & SCHWARZ	ESVS 10	825892/003	UH04	х
RANGE 1	TRL	3 METRE	N/A	UH06	х
BILOG ANTENNA	CHASE	CBL6112	2129	UH93	х
SPECTRUM ANALYSER	MARCONI	2386/2380	152076/004	UH120	

#### TRANSMITTER TESTS

#### TRANSMITTER INTENTIONAL EMISSION - RADIATED - Part 15.209

Ambient temperature	=	13°C(<1GHz),	3m measurements @ fc	[X]
Relative humidity	=	48%(<1GHz),	10m measurements @ fc	[]
Conditions	=	Open Area Test Site (OATS)	30m measurements @ fc	[ ]
Supply voltage	=	+1.2Vdc	300m extrapolated from 3m	[X]
Channel number	=	1	30m extrapolated from 10m	[ ]

FREQ. (kHz)	MEASUREMENT DISTANCE (Metres)	MEASUF Rx. RE (dBµ		EXTRA FACTO (dB)		FIELD STRENGTH (µV/m)
125.92	1	37	7.8	99		0.001
125.92	3	17	7.8 80			0.001
	Limit value @ fc		19.05(μV/m) @ 300m			
D	and accurancy @ 20dBa		f lower f higher		higher	
Band occupancy @ -20dBc		120.61 kHz		13	1.28kHz	

See spectrum analyser plot - Annex C

#### Notes:

- 1 Results quoted are extrapolated as indicated.
- 2 Receiver detector @ fc = Average, 200Hz bandwidth, measurement time 1s.
- 3 The EUT was powered with new batteries.
- 4 For emissions below 30MHz the measuring receiver automatically compensates for the loss due to the antenna factor of the loop antenna. This loss is 20dB's across the measurement range 9kHz to 30MHz.
- 5 For emissions below 30MHz the cable losses are assumed to be negligible.
- 6 Peak emissions were found to be less than or equal to the average limit therefore deemed to comply with 15.35(b).
- 7 The test results quoted are the maximum seen after the supply voltage was varied between 85% and 115% of Vnom.
- 8 Results for measurements @ 10m are not quoted as the EUT field strength was so low that only noise floor was seen @ 10m.

### Test Method:

- 1 As per Radio Noise Emissions, ANSI C63.4: 2003.
- 2 Measuring distances 1 & 3m.
- 3 EUT 0.8 metre above ground plane.
- 4 Emissions maximised by rotation of EUT, on an automatic turntable.

Raising and lowering the receiver antenna between 1m & 4m at frequencies >30MHz.

Horizontal and vertical polarisations, of the receive antenna.

EUT orientation in three orthagonal planes.

Maximum results recorded.

The test equipment used for the Transmitter Intentional Emission – Radiated – Part 15.209 tests is shown overleaf:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
AE, LOOP, Z2, 9kHz - 30MHz	ROHDE & SCHWARZ	HFH2	881058 - 53	07	
HORN ANTENNA	EMCO	3115	9010-3580	138	
HORN ANTENNA	EMCO	3115	9010-3581	139	
SPECTRUM ANALYSER	TEKTRONIX	2756P	B010109	164	
BICONE ANTENNA	CHASE	BBA9106	N/A	193	
ANTENNA, LOG PERIODIC 300MHz – 1GHz	CHASE	UPA6108	1061	203	
RECEIVER	ROHDE & SCHWARZ	ESHS20	837960/003	237	
ANTENNA, BICONE 20MHz - 300MHz	CHASE	VBA6106A	1193	251	
BILOG ANTENNA	CHASE	CBL6112	2098	274	
RECEIVER	ROHDE & SCHWARZ	ESVS10	837948/003	317	
RECEIVER	ROHDE & SCHWARZ	ESVS10	844594/003	352	
RECEIVER	ROHDE & SCHWARZ	ESHS10	844077/019	353	
V / UHF RECEIVER 20MHz - 1GHz	ROHDE & SCHWARZ	ESVS 20	838804 / 005	415	
BILOG ANTENNA	SCHAFFNER	CBL6112B	2761	431	
RECEIVER	ROHDE & SCHWARZ	ESHS 10	830051/001	UH03	x
RECEIVER	ROHDE & SCHWARZ	ESVS 10	825892/003	UH04	
RANGE 1	TRL	3 METRE	N/A	UH06	х
AE, LOOP, Z2, 9kHz - 30MHz	ROHDE & SCHWARZ	HFH2	881058 - 53	07	х
BILOG ANTENNA	CHASE	CBL6112	2129	UH93	
SPECTRUM ANALYSER	ANRITSU	MS2665C	MT26089	479	х

# ANNEX A PHOTOGRAPHS

# PHOTOGRAPH No. 1

# **TEST SETUP**



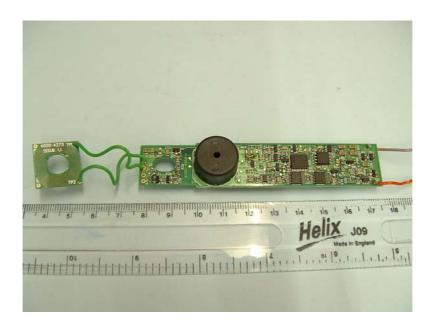
# PHOTOGRAPH No. 2 TRANSMITTER TOP VIEW



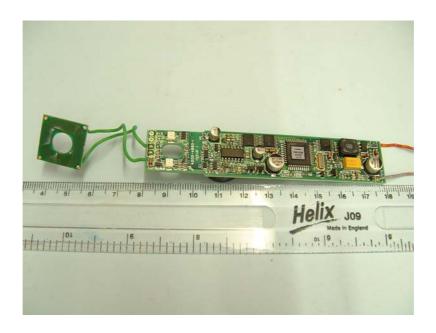
# PHOTOGRAPH No. 3 TRANSMITTER SIDE VIEW



# PHOTOGRAPH No. 4 TRANSMITTER PCB TOP SIDE



# PHOTOGRAPH No. 5 TRANSMITTER PCB BOTTOM SIDE



# ANNEX B APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

TRL RF335U iss01B RU1282/7342 Page 16 of 26

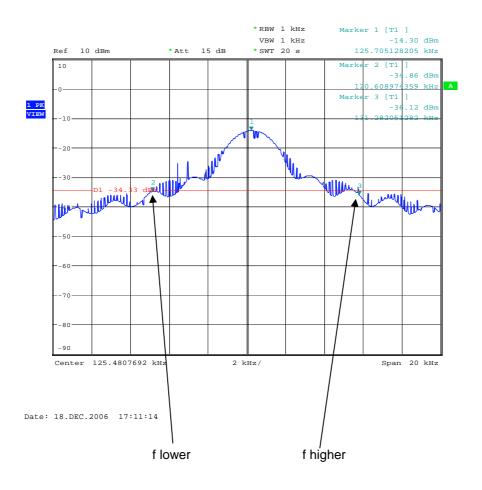
# APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

a.	ТСВ	-	APPLICATION FEE	[X] [X]
b.	AGENT'S LETTER OF AUTHORISATION	-		[X]
C.	MODEL(s) vs IDENTITY	-		[X]
d.	ALTERNATIVE TRADE P GREEN DECLARATION(s)	-		[]
e.	LABELLING	- - -	PHOTOGRAPHS DECLARATION DRAWINGS	[ ] [X] [ ]
f.	TECHNICAL DESCRIPTION	-		[X]
g.	BLOCK DIAGRAMS	- - -	Tx Rx PSU AUX	[X] [ ] [ ]
h.	CIRCUIT DIAGRAMS	- - -	Tx Rx PSU AUX	[X] [ ] [ ]
i.	COMPONENT LOCATION	- - -	Tx Rx PSU AUX	[X] [ ] [ ]
j.	PCB TRACK LAYOUT	- - -	Tx Rx PSU AUX	[X] [ ] [ ]
k.	BILL OF MATERIALS	- - -	Tx Rx PSU AUX	[X] [ ] [ ]
l.	USER INSTALLATION / OPERATING INSTRUCTIONS	-		[X]

TRL RF335U iss01B RU1282/7342 Page 17 of 26

# ANNEX C BANDWIDTH PLOT

# **BANDWIDTH PLOT**



Occupied Bandwidth = 10.67 kHz f lower = 120.61 kHz f higher = 131.28 kHz

# ANNEX D 30MHz – 1000MHz SCAN PLOT

# TRL Compliance Services Ltd E-Field Radiation (30MHz-1GHz)

EUT:

Proxi Pen

Manuf:

Group 4

Op Cond:

Prescan 30MHz - 1000MHz

Operator:

S Hodgkinson

Test Spec:

Part15

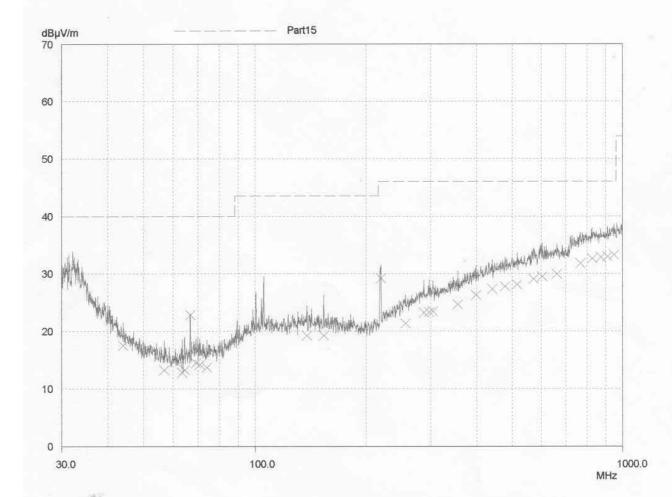
Comment:

Unit in Tx mode, no tag

Rx antenna Vertical

Scan Settings (1 Range) Frequencies Receiver Settings IF BW OpRge Start Stop Step Detector M-Time Atten Preamp 50kHz 120kHz ON 60dB 30MHz 1000MHz PK 1msec Auto Transducer No. Start Stop Name 1000MHz **UH72** 21 30MHz 30MHz 1000MHz **UH93** 22 X QP Final Measurement: Detector:

Meas Time: 2sec Subranges: 50 Acc Margin: 10 dB



# ANNEX E TEST EQUIPMENT CALIBRATION

TRL	Equipment		Last Cal	Calibration	Due For
Number	Type	Manufacturer	Calibration	Period	Calibration
UH006	3m Range ERP CAL	TRL	06/01/2006	12	06/01/2007
UH028	Log Periodic Ant	Schwarbeck	28/04/2005	24	28/04/2007
UH029	Bicone Antenna	Schwarbeck	27/04/2005	24	27/04/2007
UH041	Multimeter	<b>AVOmeter</b>	20/12/2005	12	20/12/2006
UH093	Bilog	Schaffner	19/08/2005	24	19/08/2007
UH120	Spectrum Analyser	Marconi	15/03/2005	12	15/03/2006
UH122	Oscilloscope	Tektronix	07/06/2005	24	07/06/2007
UH132	Power meter	Marconi	03/01/2006	12	03/01/2007
UH162	ERP Cable Cal	TRL	06/01/2006	12	06/01/2007
UH177	Power Supply	Manson	Use C	alibrated Multin	neter
UH187	Receiver	R&S	22/06/2005	12	22/06/2006
UH191	Bilog	York	16/04/2004	24	16/04/2006
UH195	LISN/AMN	R&S	22/12/2005	12	22/12/2006
UH226	Bidirectional Coupler	Narda	(	Calibrate in use	
UH228	Power Sensor	Marconi	03/01/2006	12	03/01/2007
UH253	1m Cable N type	TRL	05/01/2006	12	05/01/2007
UH254	1m Cable N type	TRL	05/01/2006	12	05/01/2007
UH265	Notch filer	Telonic	24/06/2005	12	24/06/2006
L005	CMTA	R&S	05/12/2005	12	05/12/2006
L007	Loop Antenna	R&S	29/03/2005	24	29/03/2007
L011	Temperature Chamber	Shartree	Use Calibra	ted Temperatur	e Indicator
L138	1-18GHz Horn	EMCO	15/04/2005	24	15/04/2007
L139	1-18GHz Horn	EMCO	03/05/2005	24	03/05/2007
L176	Signal Generator	Marconi	31/01/2005	12	31/01/2006
L280	18GHz Cable	Rosenberger	05/01/2006	12	05/01/2007
L343	CCIR Noise Filter	TRL	07/06/2005	12	07/06/2006
L426	Temperature Indicator	Fluke	04/01/2006	12	04/01/2007
L479	Analyser	Anritsu	18/11/2005	12	18/11/2006
L552	Signal Generator	Agilent	25/04/2005	12	25/04/2006

# ANNEX F MEASUREMENT UNCERTAINTY

#### Radio Testing - General Uncertainty Schedule

All statements of uncertainty are expanded standard uncertainty using a coverage factor of 1.96 to give a 95% confidence where no required test level exists.

#### [1] Adjacent Channel Power

Uncertainty in test result = 1.86dB

#### [2] Carrier Power

```
Uncertainty in test result (Equipment - TRLUH120) = 2.18dB
Uncertainty in test result (Equipment – TRL05) = 1.08dB
Uncertainty in test result (Equipment – TRL479) = 2.48dB
```

#### [3] Effective Radiated Power

Uncertainty in test result = 4.71dB

#### [4] Spurious Emissions

Uncertainty in test result = 4.75dB

#### [5] Maximum frequency error

```
Uncertainty in test result (Equipment - TRLUH120) = 119ppm Uncertainty in test result (Equipment – TRL05) = 0.113ppm Uncertainty in test result (Equipment – TRL479) = 0.265ppm
```

### [6] Radiated Emissions, field strength OATS 14kHz-18GHz Electric Field

Uncertainty in test result (14kHz - 30MHz) = 4.8dB, Uncertainty in test result (30MHz - 1GHz) = 4.6dB, Uncertainty in test result (14kHz - 30MHz) = 4.7dB

#### [7] Frequency deviation

Uncertainty in test result = 3.2%

#### [8] Magnetic Field Emissions

Uncertainty in test result = 2.3dB

### [9] Conducted Spurious

```
Uncertainty in test result (Equipment TRL479) Up to 8.1GHz = 3.31dB
Uncertainty in test result (Equipment TRL479) 8.1GHz – 15.3GHz = 4.43dB
Uncertainty in test result (Equipment TRL479) 15.3GHz – 21GHz = 5.34dB
Uncertainty in test result (Equipment TRLUH120) Up to 26GHz = 3.14dB
```

#### [10] Channel Bandwidth

Uncertainty in test result = 15.5%

#### [11] Amplitude and Time Measurement - Oscilloscope

Uncertainty in overall test level = 2.1dB, Uncertainty in time measurement = 0.59%, Uncertainty in Amplitude measurement = 0.82%

### [11] Power Line Conduction

Uncertainty in test result = 3.4dB

## [12] Spectrum Mask Measurements

Uncertainty in test result = 2.59% (frequency)
Uncertainty in test result = 1.32dB (amplitude)

## [13] Adjacent Sub Band Selectivity

Uncertainty in test result = 1.24dB

[14] Receiver Blocking - Listen Mode, Radiated

Uncertainty in test result = 3.42dB

[15] Receiver Blocking - Talk Mode, Radiated

Uncertainty in test result = 3.36dB

[16] Receiver Blocking - Talk Mode, Conducted

Uncertainty in test result = 1.24dB

[17] Receiver Threshold

Uncertainty in test result = 3.23dB

[18] Transmission Time Measurement

Uncertainty in test result = 7.98%