



TEST REPORT NO: RU1136/5780
COPY NO: .2.....
ISSUE NO: 1
FCC ID: NE0-50-0780-VHF

**REPORT ON THE CERTIFICATION TESTING OF A
Aerial Facilities Limited
Cell Enhancer
WITH RESPECT TO
THE FCC RULES CFR 47, PART 90 Subpart H
PRIVATE LAND MOBILE REPEATER.**

TEST DATE: 16th September 2004 – 17th September 2004

TESTED BY: J CHARTERS

APPROVED BY: P GREEN
PRODUCT MANAGER
EMC

DATE: 29th September 2004.....

Distribution:

- Copy Nos:
1. Aerial Facilities Limited
 2. TCB: TRL Compliance Services Limited
 3. TRL EMC

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FS 21805

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Notes:		
1. Component failure during test	YES	<input type="checkbox"/>
	NO	<input checked="" type="checkbox"/>
2. If Yes, details of failure:		
3. The facilities used for the testing of the product contain in this report are FCC Listed.		



CERTIFICATE OF CONFORMITY & COMPLIANCE

FCC IDENTITY:	NE0-50-0780-VHF
PURPOSE OF TEST:	CERTIFICATION
TEST SPECIFICATION:	FCC RULES CFR 47, Part 90 Subpart H
TEST RESULT:	Compliant to Specification
EQUIPMENT UNDER TEST:	Cell Enhancer
EQUIPMENT TYPE:	Private Land Mobile Repeater
MAXIMUM GAIN	114.18 dB
MAXIMUM INPUT	-87.34 dBm
MAXIMUM OUTPUT	+26.84 dBm
ANTENNA TYPE:	Not applicable
CHANNEL SPACING:	25 kHz
NUMBER OF CHANNELS:	Channel No. Uplink 6 Downlink 6
FREQUENCY GENERATION:	N/A
MODULATION TYPE:	F3E
POWER SOURCE(s):	+110 Vac
TEST DATE(s):	16 th September 2004 – 17 th September 2004
ORDER No(s):	26773
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Latimer Park, Latimer Chesham Buckinghamshire HP5 1TU United Kingdom
TESTED BY:	----- J CHARTERS
APPROVED BY:	----- P GREEN PRODUCT MANAGER EMC

APPLICANT'S SUMMARY

EQUIPMENT UNDER TEST (EUT):	Cell Enhancer
EQUIPMENT TYPE:	Private Land Mobile Repeater
PURPOSE OF TEST:	CERTIFICATION
TEST SPECIFICATION(s):	FCC RULES CFR 47, Part 90 Subpart H
TEST RESULT:	COMPLIANT Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
APPLICANT'S CATEGORY:	MANUFACTURER <input checked="" type="checkbox"/> IMPORTER <input type="checkbox"/> DISTRIBUTOR <input type="checkbox"/> TEST HOUSE <input type="checkbox"/> AGENT <input type="checkbox"/>
APPLICANT'S ORDER No(s):	26773
APPLICANT'S CONTACT PERSON(s):	Mr Peter Bradfield
E-mail address:	Peterb@aerial.co.uk
APPLICANT:	Aerial Facilities Limited
ADDRESS:	Aerial House Latimer Park, Latimer Chesham Buckinghamshire HP5 1TU United Kingdom
TEL:	+44 (0)1494777020
FAX:	+44 (0)149477002
MANUFACTURER:	Aerial Facilities Limited
EUT(s) COUNTRY OF ORIGIN:	United Kingdom
TEST LABORATORY:	TRL EMC
UKAS ACCREDITATION No:	0728
TEST DATE(s)	16 th September 2004 – 17 th September 2004
TEST REPORT No:	RU1136/5780

EQUIPMENT TEST / EXAMINATIONS REQUIRED

1.	TEST/EXAMINATION	RULE PART	APPLICABILITY	RESULT
	RF Power Output	90.205	Yes	Complies
	Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A
	Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A
	Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A
	Occupied Bandwidth	90.210	Yes	Complies
	Spurious Emissions at Antenna Terminals	90.210	Yes	Complies
	Field Strength of Spurious Emissions	90.210	Yes	Complies
	Frequency Stability	90.213	N/A(note 1)	N/A
	Transient behaviour	90.214	N/A(note 2)	N/A

Notes:

1 The EUT does not contain signal generation circuitry, therefore the test was not performed.

2 The EUT is not a keyed carrier system, therefore the test was not performed.

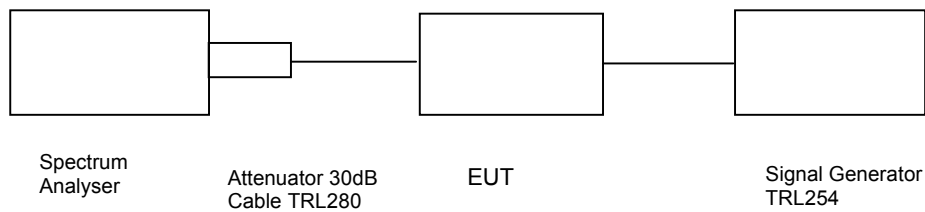
2. Product Use: Private Land Mobile Repeater
3. Emission Designator: F3E
4. Temperatures: Ambient (Tnom) 21°C
5. Supply Voltages: Vnom +110 Vac
- Note: Vnom voltages are as stated above unless otherwise shown on the test report page
6. Equipment Category: Single channel ☐
Two channel ☐
Multi-channel ☒
7. Channel spacing: Narrowband ☒ 25 kHz
Wideband ☐
8. Test Location TRL Compliance Services
Up Holland ☒
Long Green ☐
9. Modifications made during test program No modifications were performed.

COMPLIANCE TESTS

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – UPLINK

Ambient temperature = 22°C
 Relative humidity = 51%
 Supply voltage = +110 Vac
 Channel number = See test results

Radio Laboratory



Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
160.53	-82.24	29.84	-3	109.8	89.38
160.935	-88.03	29.84	-4.9	112.97	92.99
161.415	-87.34	29.48	-2.1	114.19	94.78

Notes:

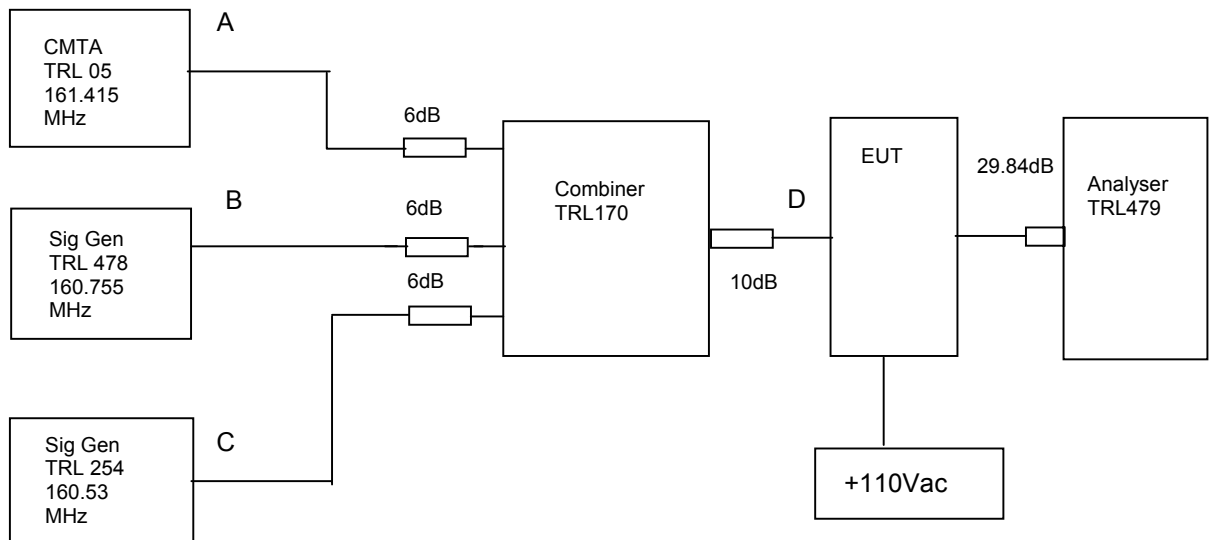
- The level of the signal generator takes into consideration the loss from the cable.
- The signal generator input was increased by 20dBs and the level of the output signal remeasured

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119562/021	254	X

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– UPLINK

Ambient temperature = 22°C
Relative humidity = 51%
Supply voltage = +110 Vac

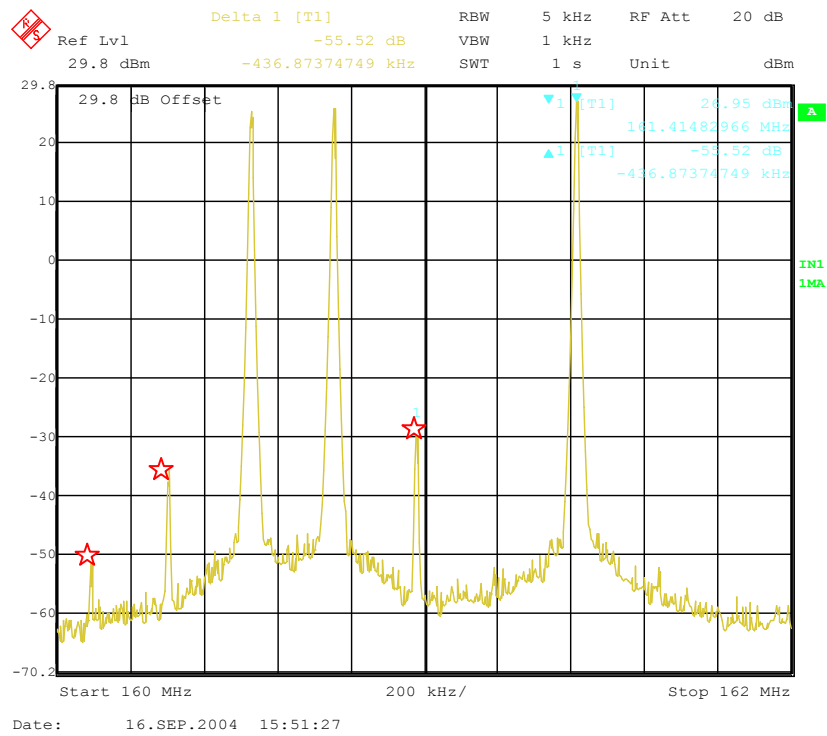
Radio Laboratory



The Intermodulation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of -82.2dBm. The cable and attenuator loss between the EUT and the spectrum analyser was 29.84dB. This loss was taken into account by adjusting the analysers level offset.

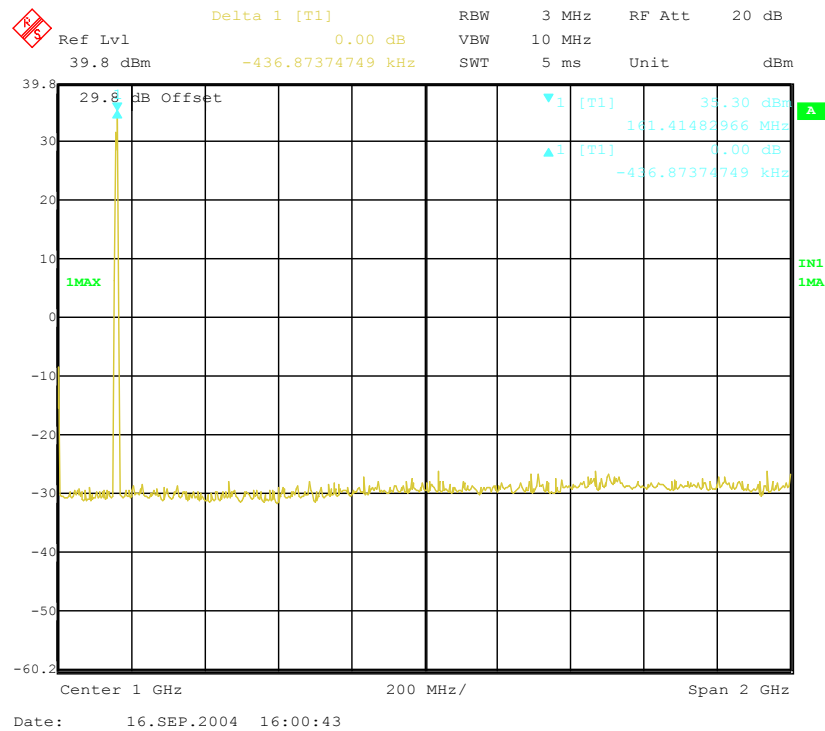
Sweep data is shown on the next page:

Intermodulation Inband



The above plot shows that all products (designated by ☆) are at least 40dB below the fundamentals.

Intermodulation Wideband



The above plot shows that there are no products outside the bands.

Test equipment used for intermodulation test

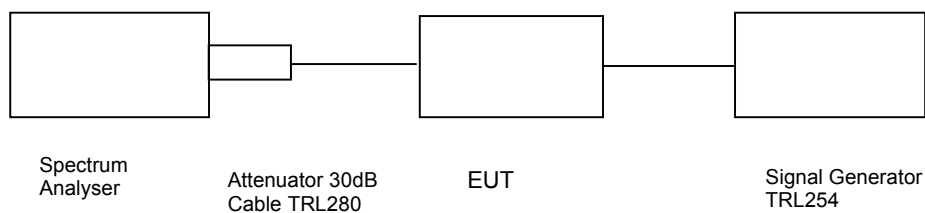
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
SIGNAL GENERATOR	MARCONI	2042	119562/021	254	X
CMTA	ROHDE & SCHWARZ	CMTA52	894715/033	05	X
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMR 20	834671/003	478	X
COMBINER	ELCOM	RC-4-50	N/A	170	X

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– UPLINK

Ambient temperature = 23°C
Relative humidity = 51%
Supply voltage = +110 Vac
Channel number = See test results

Radio Laboratory



This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-82.2dBm) and modulated with a 2500Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT.

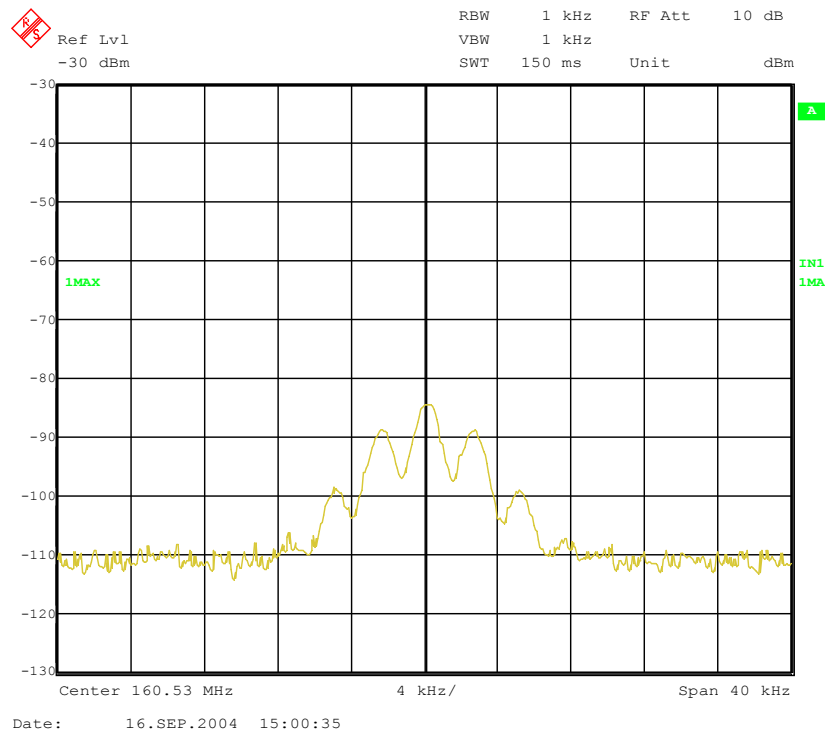
Note: The cables and attenuators had the following losses.

1. Cable TRL280 and attenuator 30dB 29.84dB
2. Cable between signal generator and EUT 0.04dB

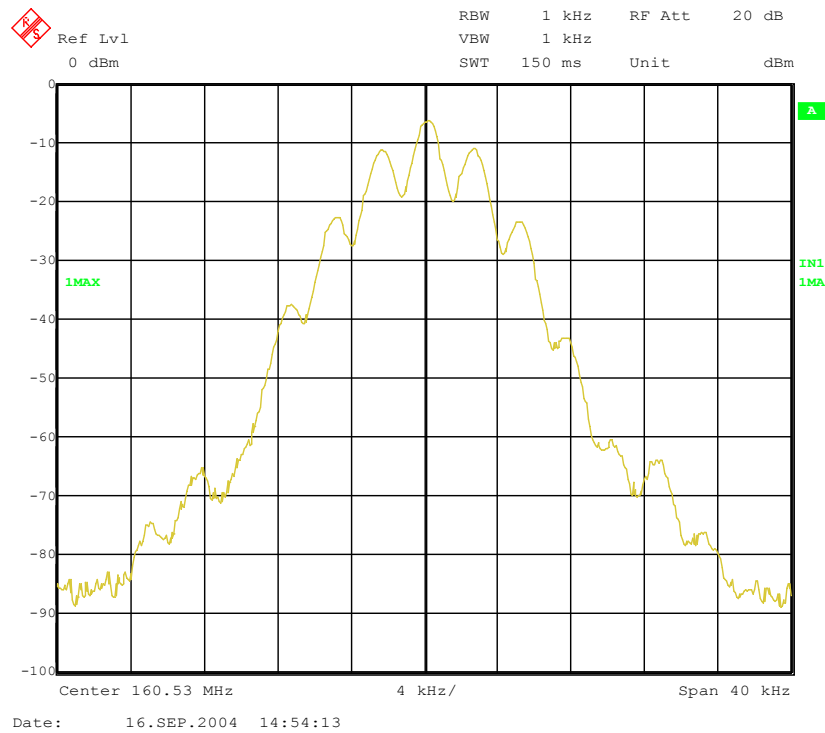
The test equipment used for the Transmitter Modulated Channel tests is shown below:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119562/021	254	X

160.53 Signal Generator deviation set to 2.5kHz

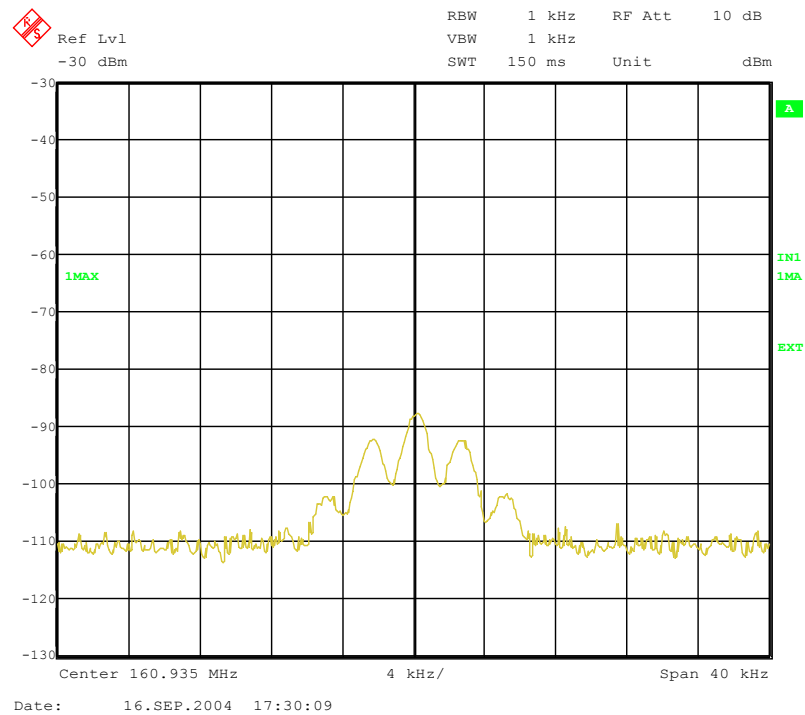


160.53 Signal Generator and EUT deviation set to 2.5kHz

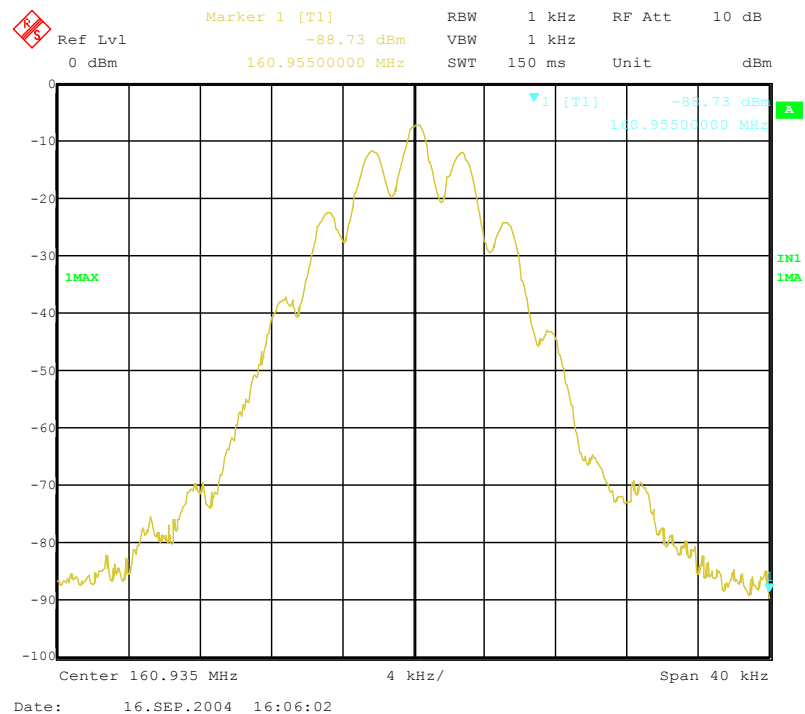


The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

160.935 Signal Generator deviation set to 2.5kHz

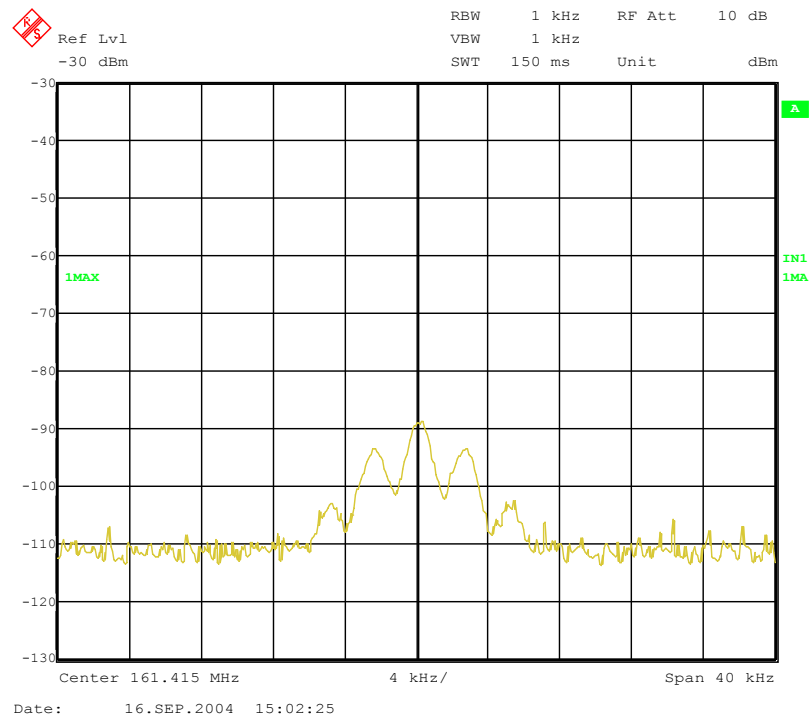


160.935 Signal Generator and amplifier deviation set to 2.5kHz

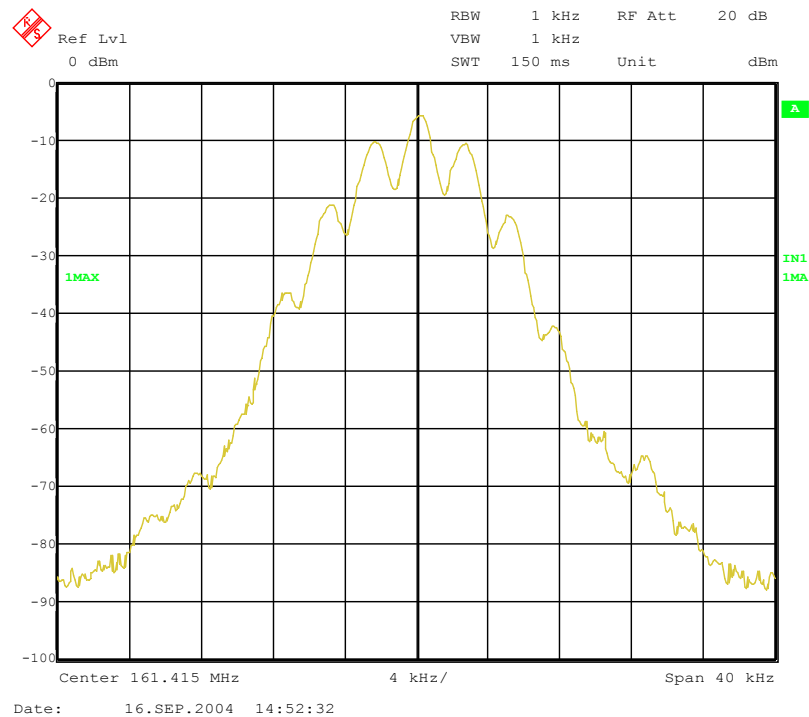


The above plots depicting the output wavseshape show no measurable distortion visible. When compared to the input signal.

161.415 Signal Generator deviation set to 2.5kHz



161.415 Signal Generator deviation set to 2.5kHz



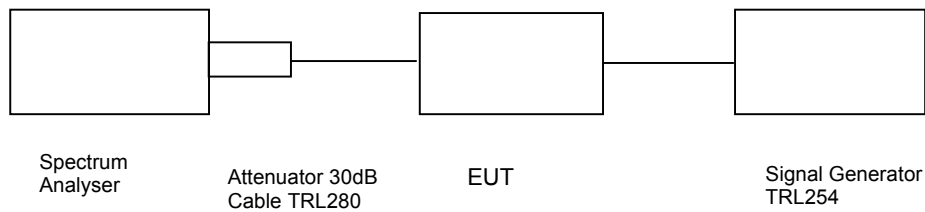
The above plots depicting the output waveshape show no measurable distortion visible. When compared to the input signal.

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1051– UPLINK

Ambient temperature = 23°C
 Relative humidity = 51%
 Supply voltage = +110 Vac

Radio Laboratory
 Test Signal = F3E



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more than 250% of the authorised bandwidth

At least $43 + 10 \log \text{PdB}$

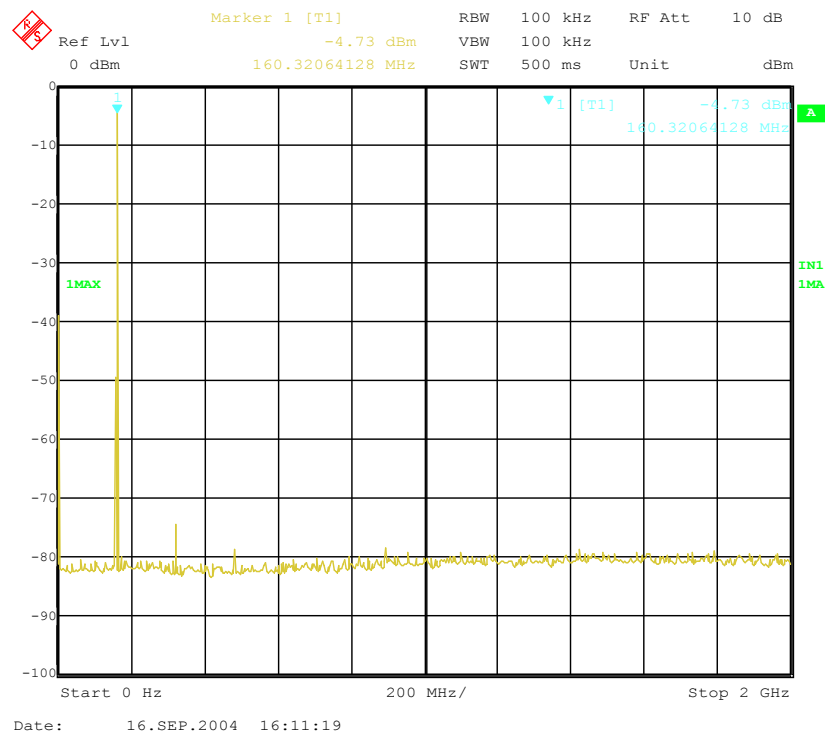
$$(10 \log P_{\text{watts}}) - (43 + 10 \log (P_{\text{watts}} * 1000)) = \text{LIMIT} = -13 \text{ dBm}$$

The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119562/021	254	X

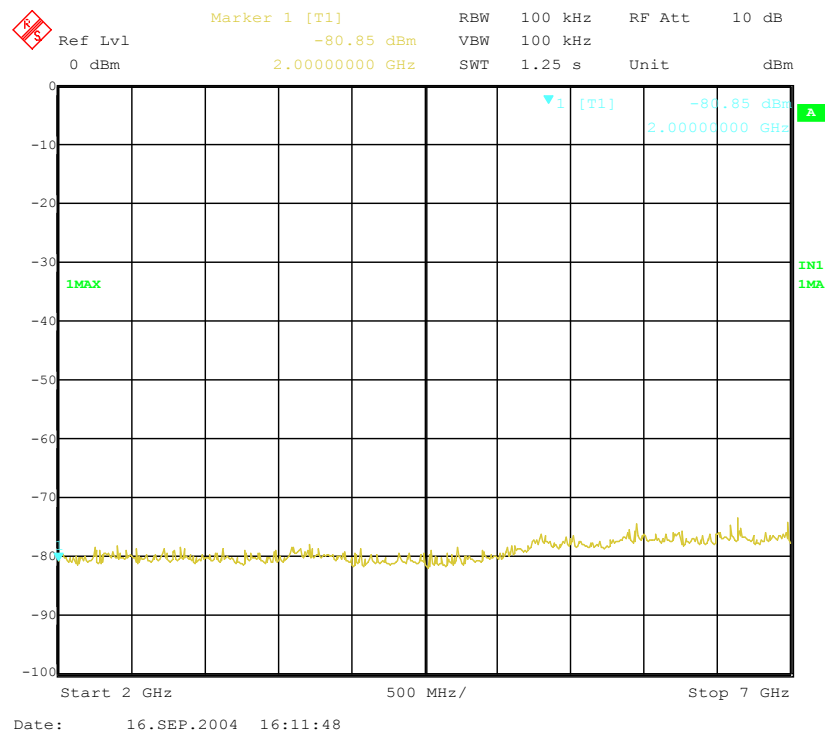
Conducted emissions 160.53MHz

0 - 2GHz



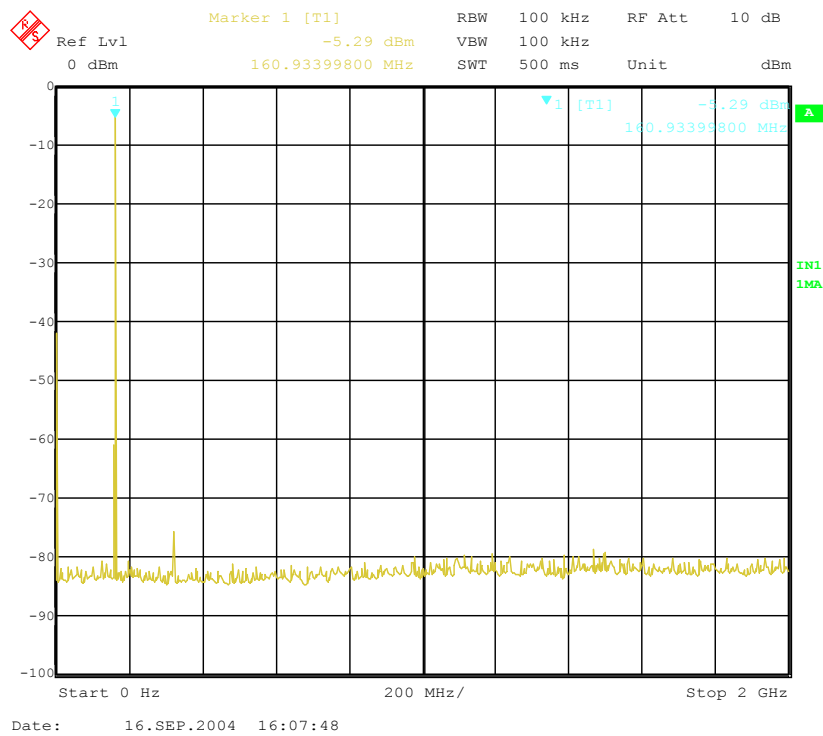
Conducted emissions 160.53MHz

2 - 7GHz



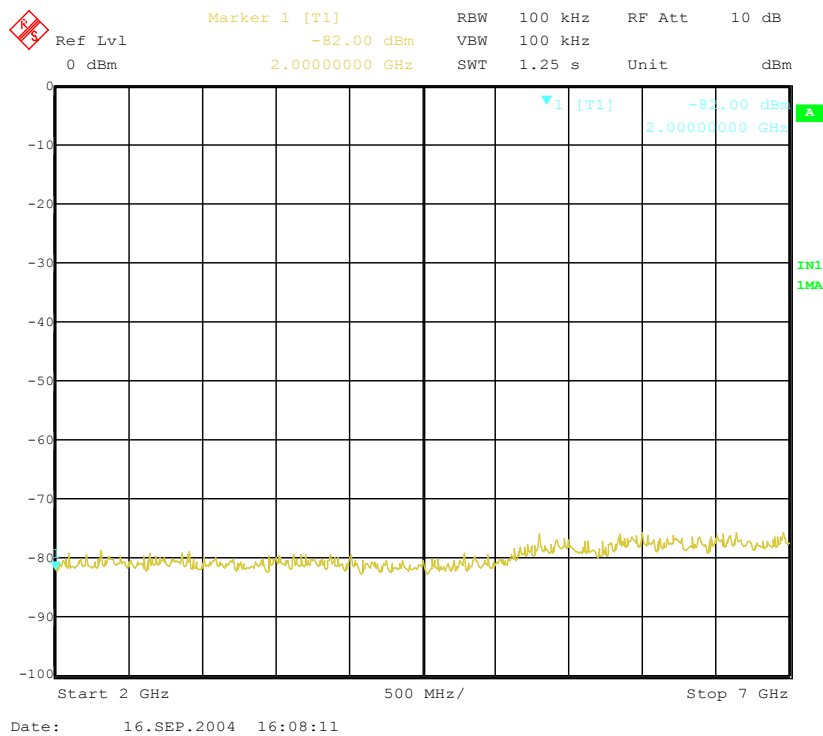
Conducted emissions 160.935MHz

0 - 2GHz



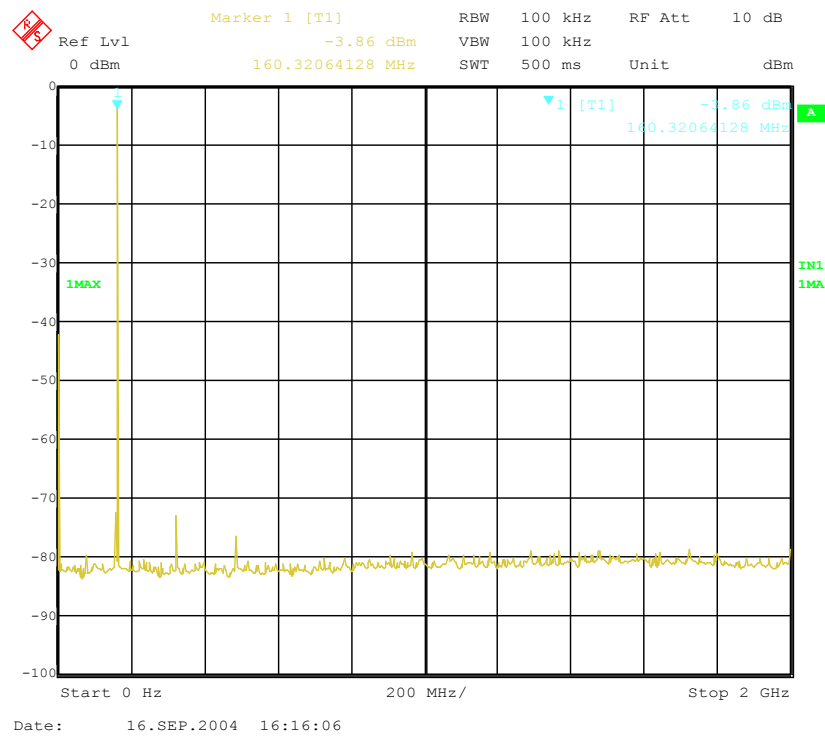
Conducted emissions 160.935MHz

2 - 7GHz



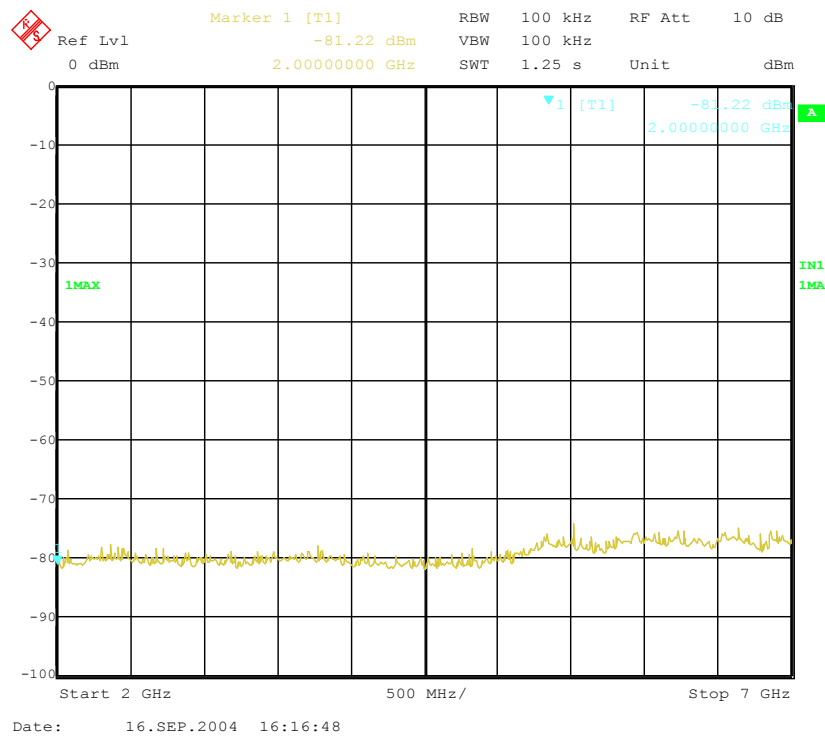
Conducted emissions 161.415MHz

0 - 2GHz



Conducted emissions 161.415MHz

2 - 7GHz

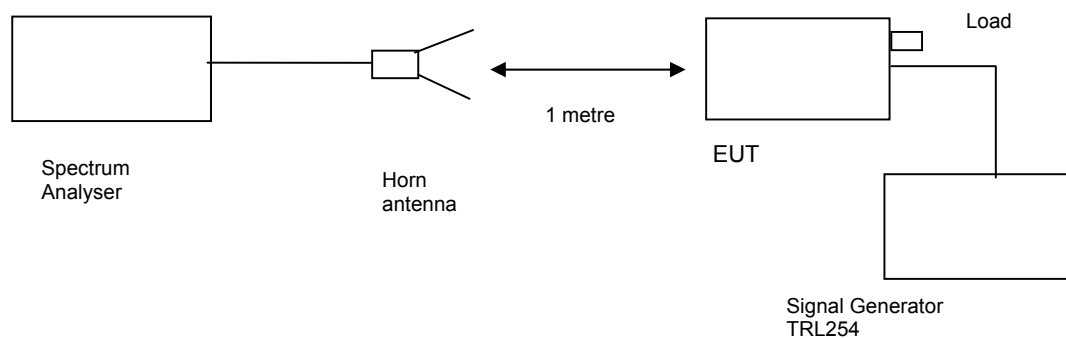


TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– UPLINK

Ambient temperature = 18°C
 Relative humidity = 51%
 Conditions = OATS
 Supply voltage = +110 Vac
 Supply Frequency = N/A

Test Signal = F3E



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load connected to the output. The unit was also tested with the signal generator replaced by another 50ohm load.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least $43 + 10 \log \text{PdB}$

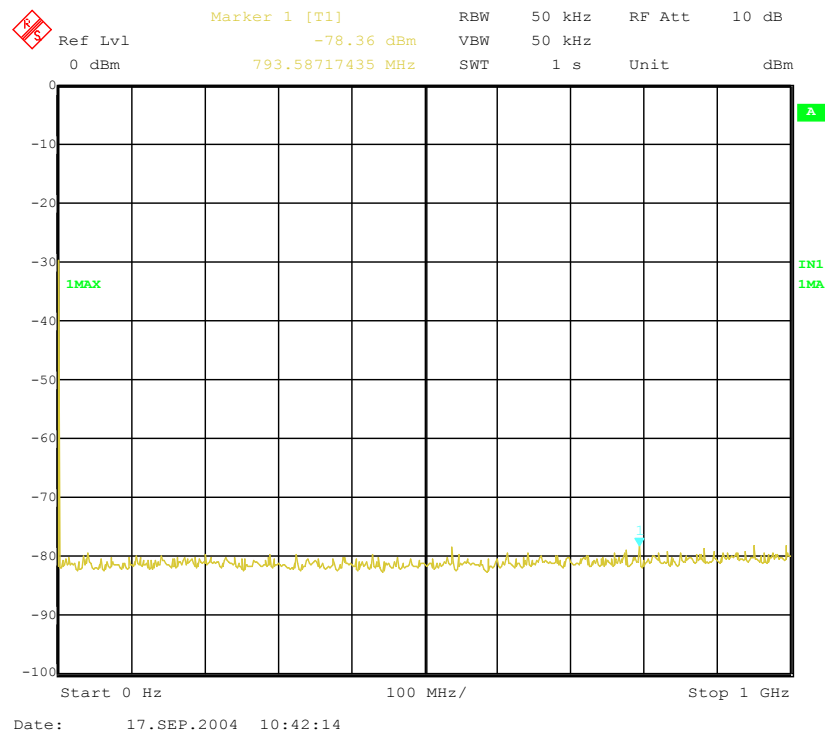
$$(10 \log P_{\text{watts}}) - (43 + 10 \log (P_{\text{watts}} * 1000)) = \text{LIMIT} = -13 \text{ dBm}$$

The test equipment used for the Transmitter Spurious Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
HORN	EMCO	3115	9010-3581	139	X
50Ω LOAD	RHODE & SCHWARZ	200.0019.55	300804/32	UH227	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119388/021	254	X

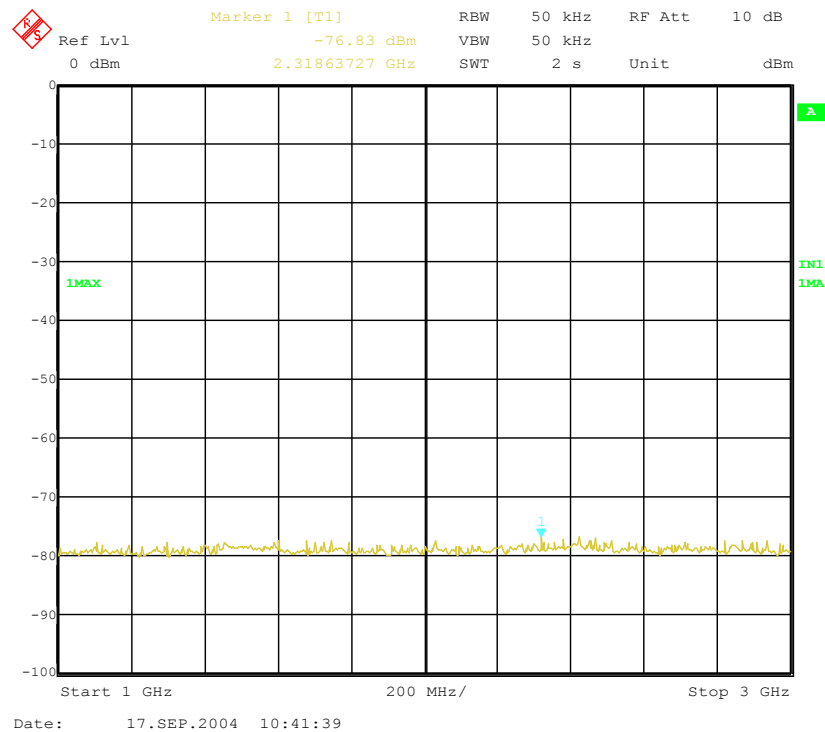
Radiated emissions 160.53MHz

0-1 GHz



Radiated emissions 160.53MHz

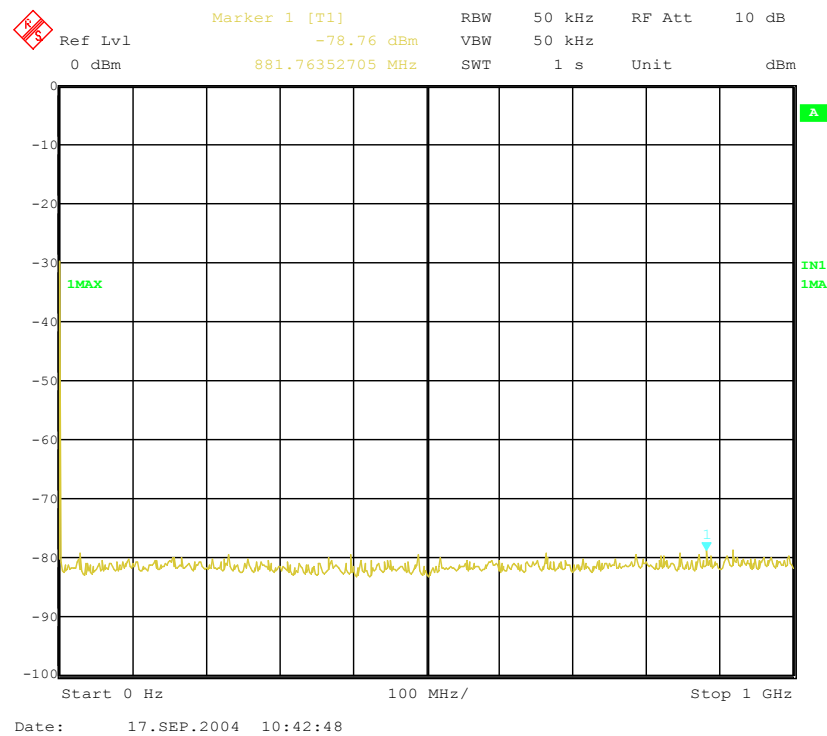
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

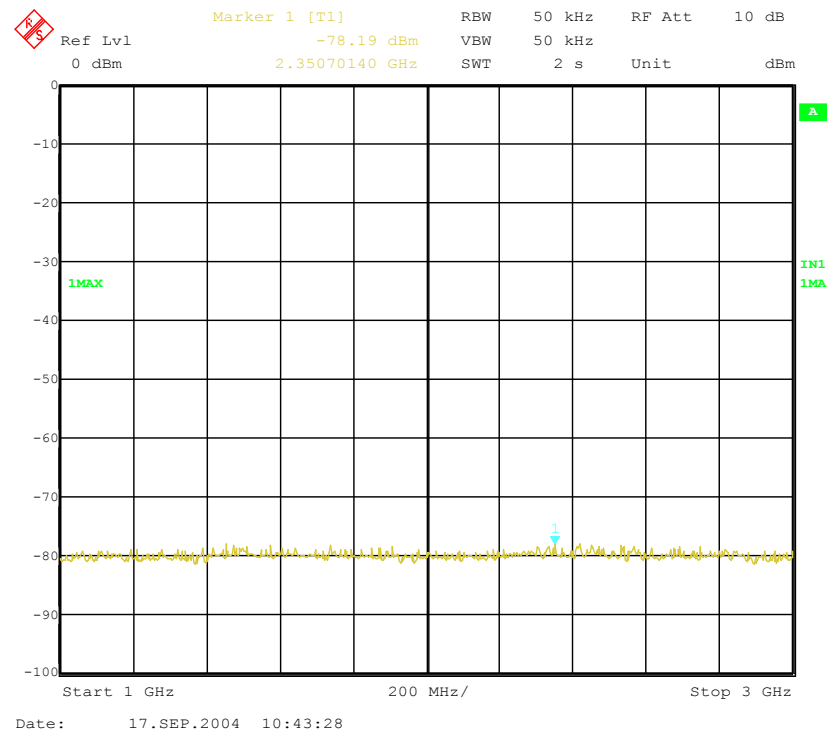
Radiated emissions 160.935MHz

0-1GHz



Radiated emissions 160.935MHz

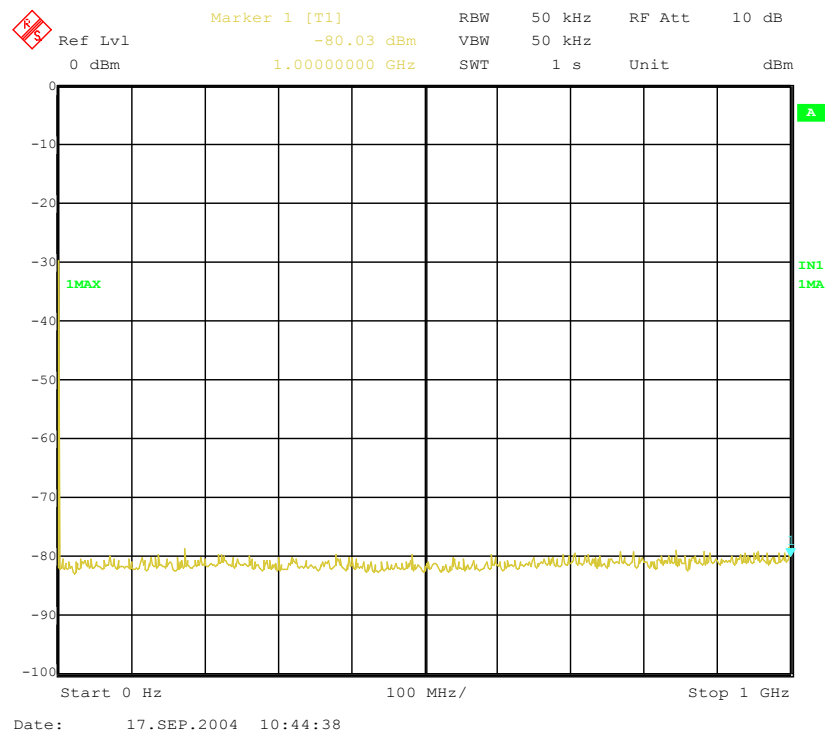
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

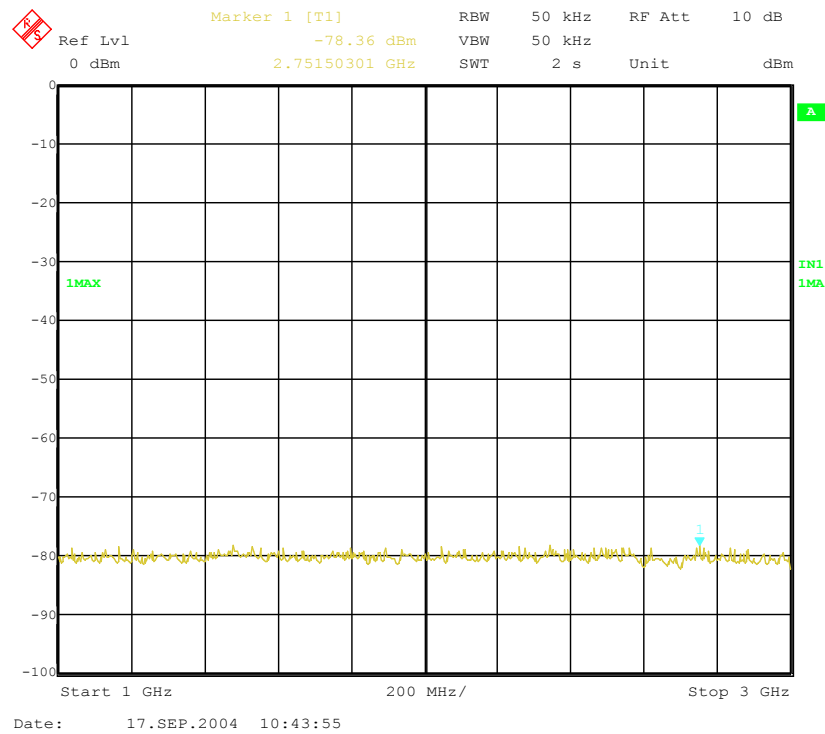
Radiated emissions 161.415MHz

0-1GHz



Radiated emissions 161.415MHz

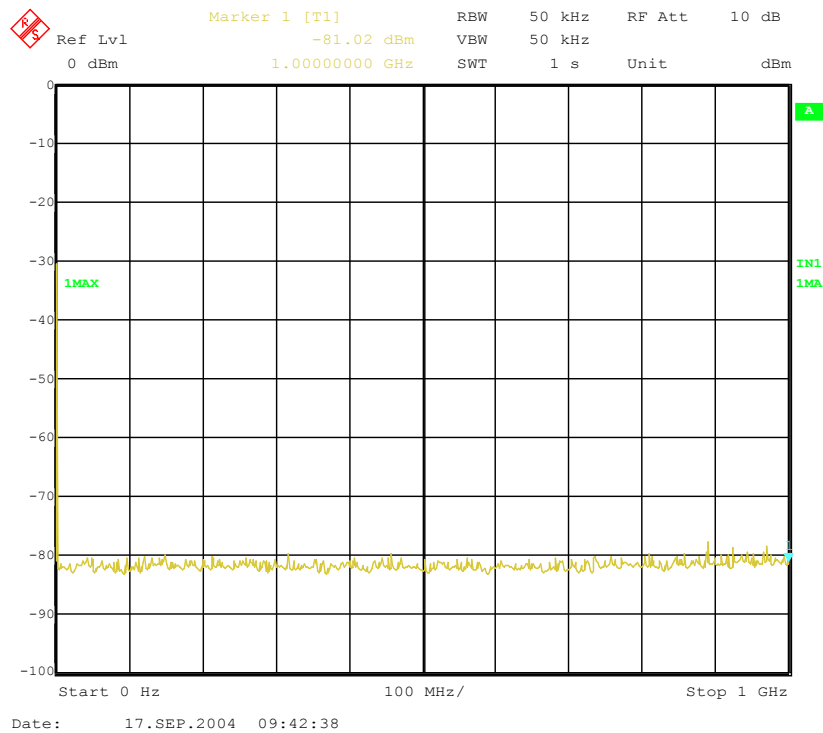
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

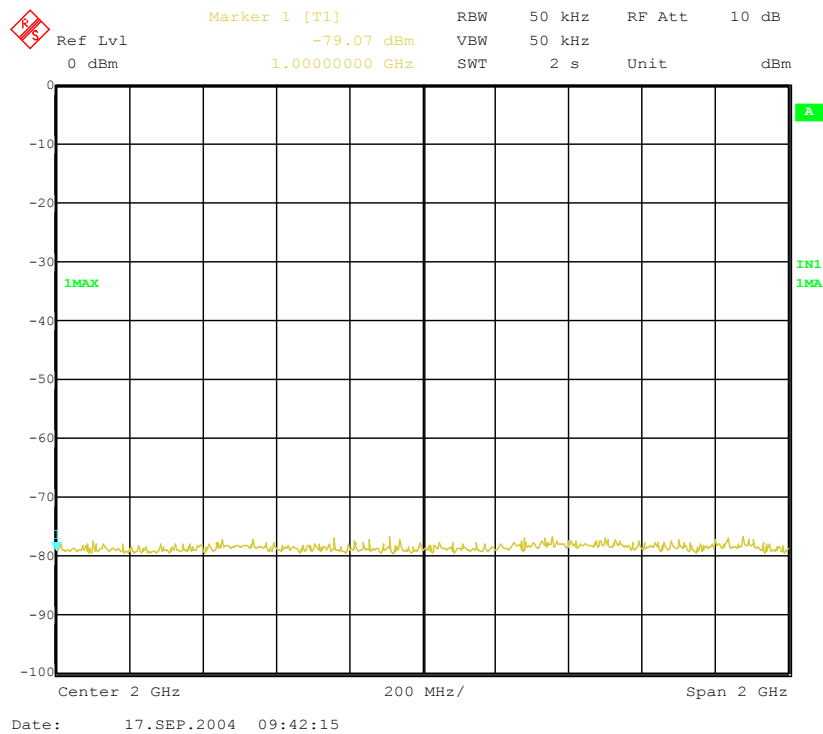
Radiated emissions no input signal

0-1GHz



Radiated emissions no input signal

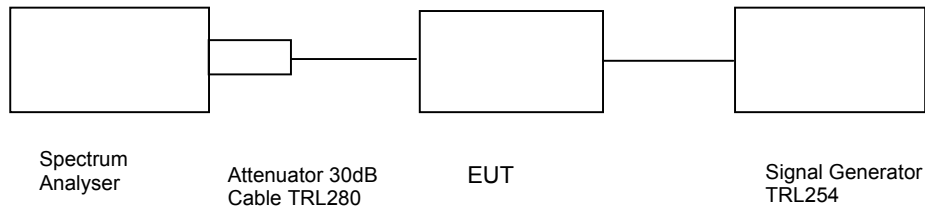
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

AMPLIFIER GAIN – CONDUCTED – PART 2.1046 – DOWNLINK

Ambient temperature	=	22°C	Radio Laboratory
Relative humidity	=	51%	
Supply voltage	=	+110 Vac	
Channel number	=	See test results	



Frequency MHz	Signal Generator input level dBm	Cable & Attenuator loss dB	Level at Spectrum Analyser dBm	Gain dB	Gain after 20dB input level increase dBm
160.380 MHz	-82.33	29.84	-7.92	104.25	84.79
160.665 MHz	-81.43	29.84	-8.40	102.84	83.52
161.556 MHz	-78.83	29.84	-6.66	102.01	82.26

Notes:

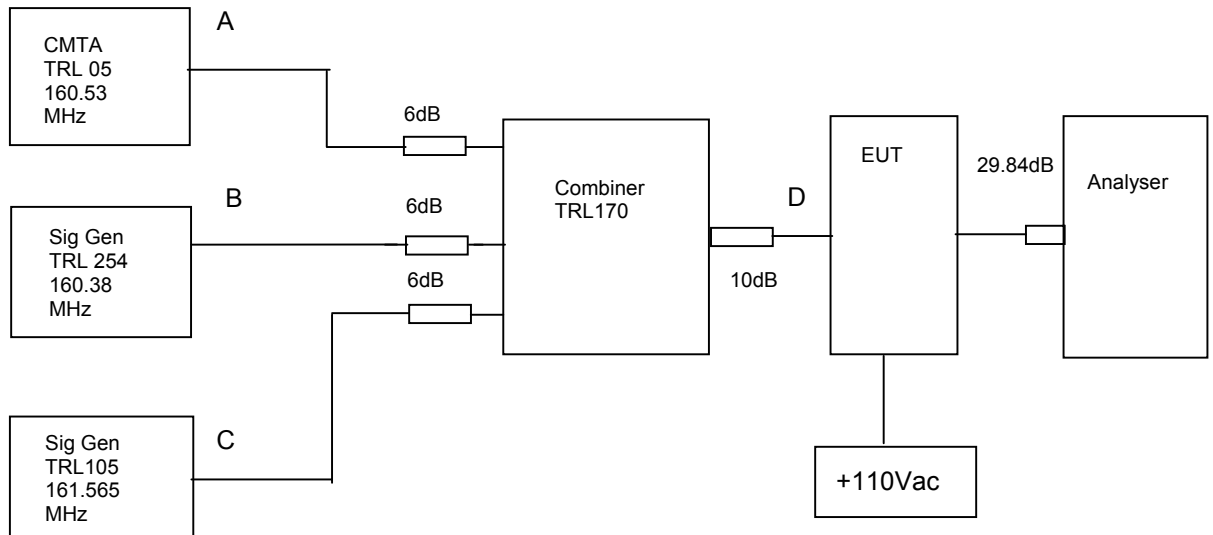
1. The level of the signal generator takes into consideration the loss from the cable.
2. The signal generator input was increased by 20dBs and the level of the output signal remeasured
3. The EUT's downlink path had 10dB's of internal attenuation switched in.

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119388/021	254	X

AMPLIFIER INTERMODULATION SPURIOUS EMISSIONS – CONDUCTED – PART 2.1053– DOWNLINK

Ambient temperature = 22°C
Relative humidity = 51%
Supply voltage = +110 Vac

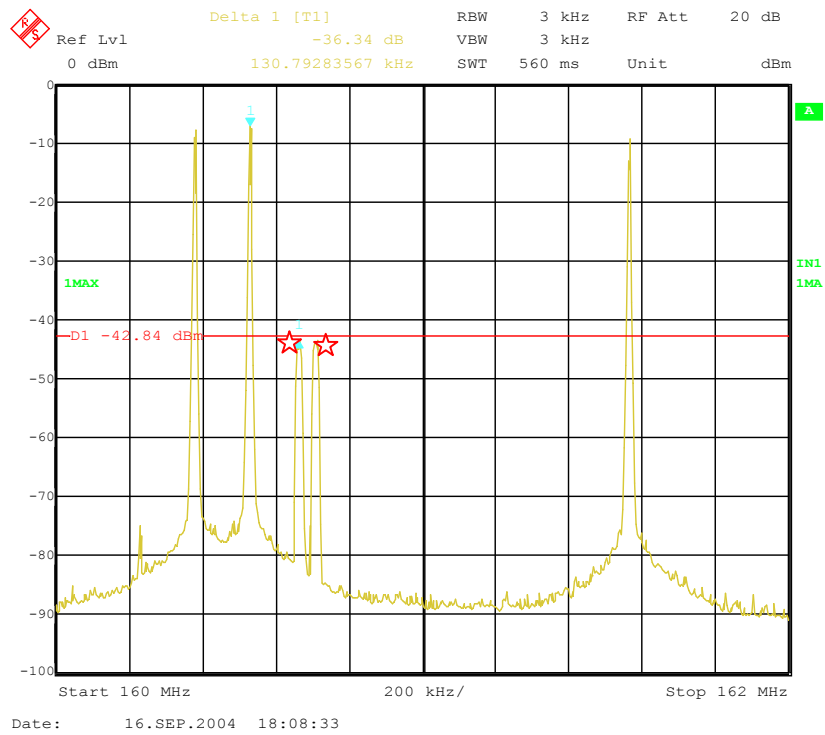
Radio Laboratory



The Intermodulation and spurious products were measured with the amplifier operating at maximum gain. A three tone test was conducted using the equipment as above. The input power level was adjusted so the level at point D was the maximum input of -78.83dBm. The cable and attenuators loss between the EUT and the spectrum analyser was 29.84 dB. The EUT's downlink path had 10dB's of internal attenuation switched in.

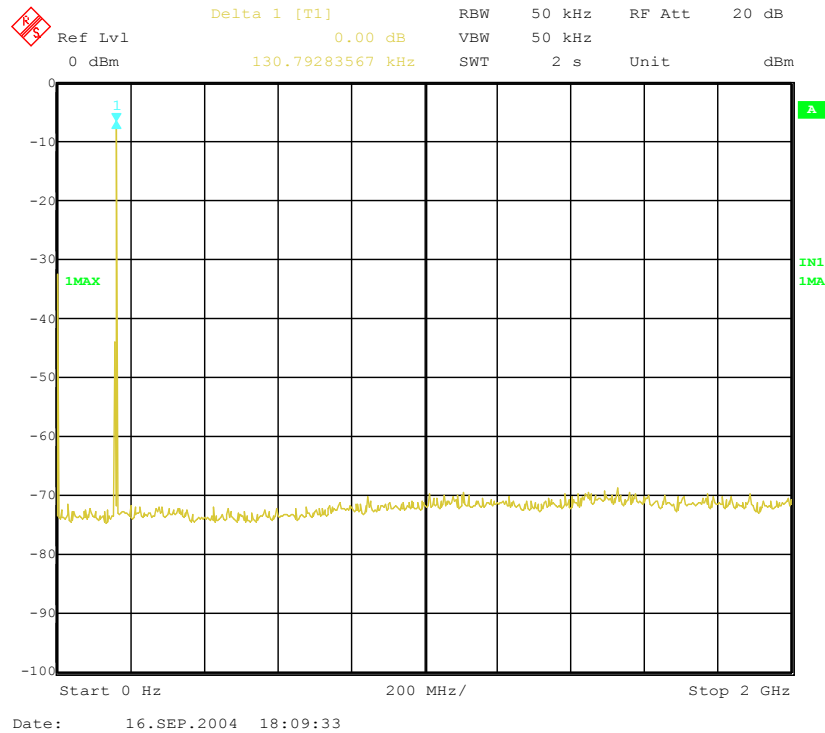
Sweep data is shown on the next page:

Intermodulation Inband



The above plot shows that all products (designated by ☆) are at least 40dB below the fundamentals.

Intermodulation Wideband



The above plot shows that there are no products outside the bands.

Test equipment used for intermodulation test

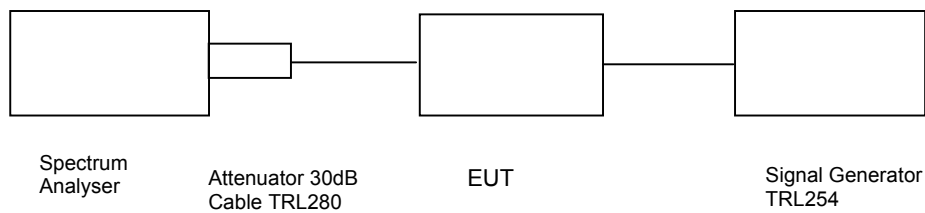
TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
SIGNAL GENERATOR	MARCON	2042	119562/021	254	X
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMR 20	834671/003	478	X
SIGNAL GENERATOR	MARCONI	2023	112224/040	105	X
COMBINER	ELCOM	RC-4-50	N/A	170	X

TRANSMITTER TESTS

AMPLIFIER MODULATED CHANNEL TEST – CONDUCTED – Part 2.1049– DOWNLINK

Ambient temperature = 23°C
Relative humidity = 51%
Supply voltage = +110 Vac
Channel number = See test results

Radio Laboratory



This test was performed to show that the amplifier does not alter the input signal in any way. The input signal was set to the maximum input level (-81.43) and modulated with a 5000Hz tone. The plots show the signal measured at the signal generator and the signal measured at the output of the EUT. The EUT's downlink path had 10dB's of internal attenuation switched in.

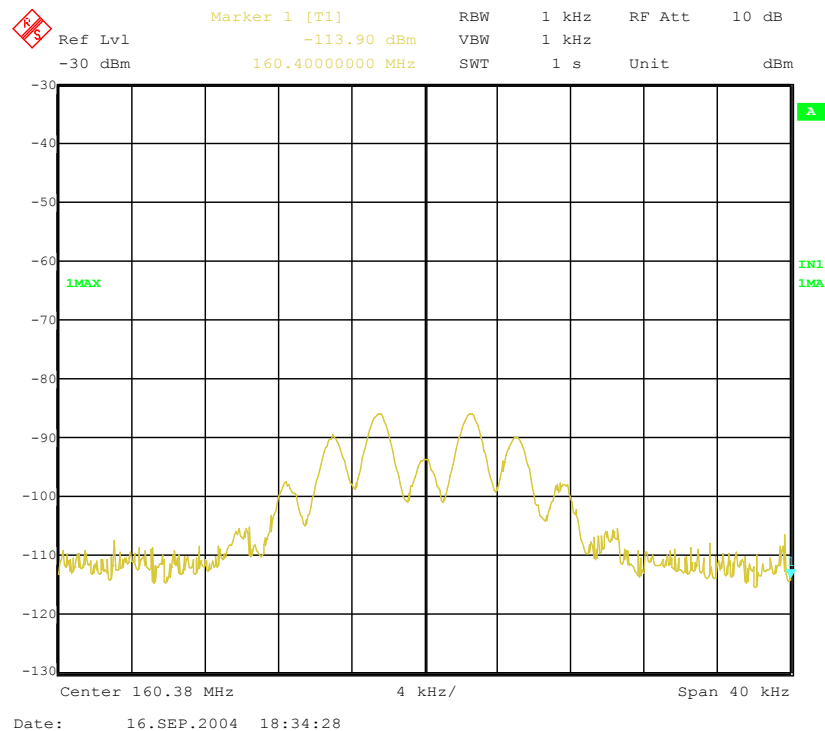
Note: The cables and attenuators had the following losses.

1. Cable TRL280 and 30dB attenuator = 29.84dB
2. Cable between signal generator and EUT = 0.04dB

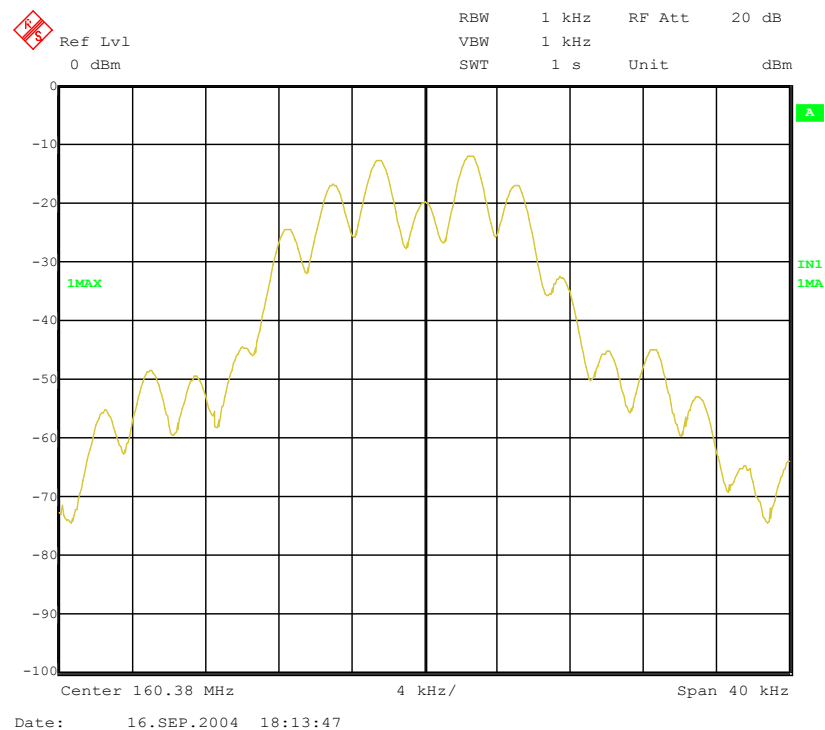
The test equipment used for the Transmitter modulated channel tests is shown below:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119388/021	254	X

160.380 MHz Signal Generator deviation set to 5kHz

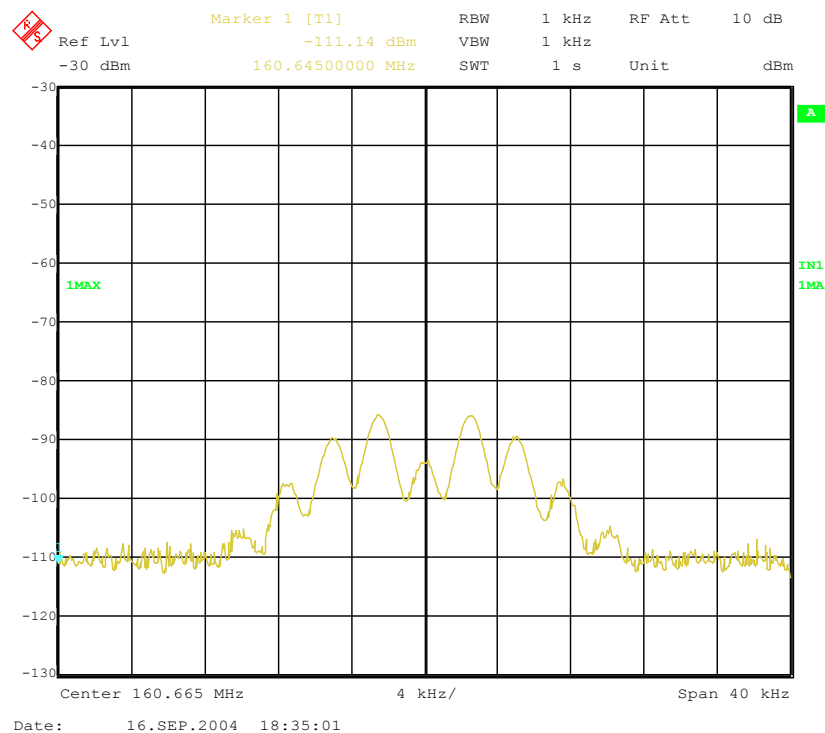


160.380 MHz Signal Generator and EUT deviation set to 5kHz

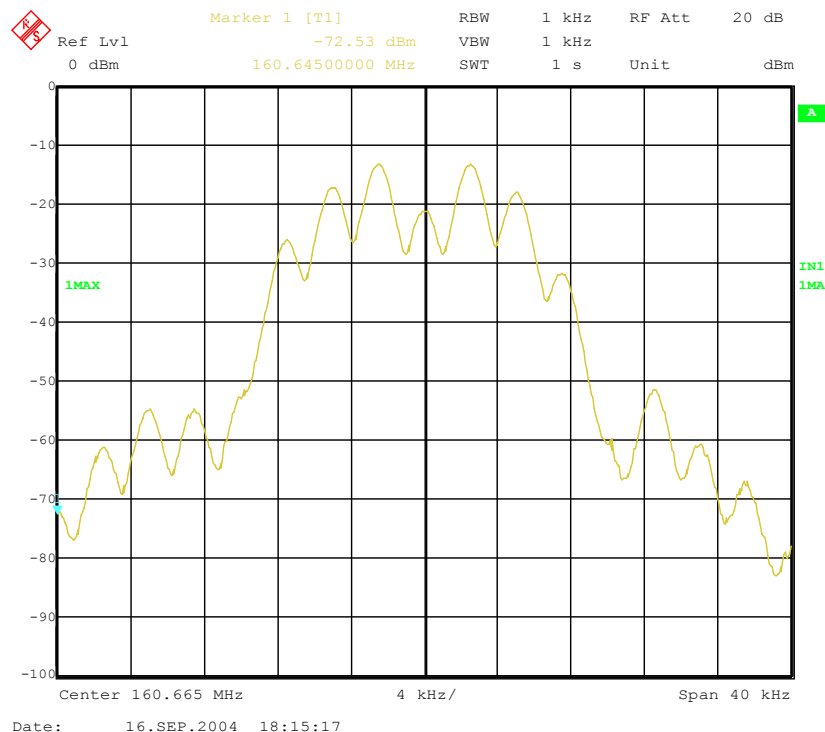


The above plots depicting the output wave shape show no measurable distortion visible. When compared to the input signal.

160.665 MHz Signal Generator deviation set to 5kHz

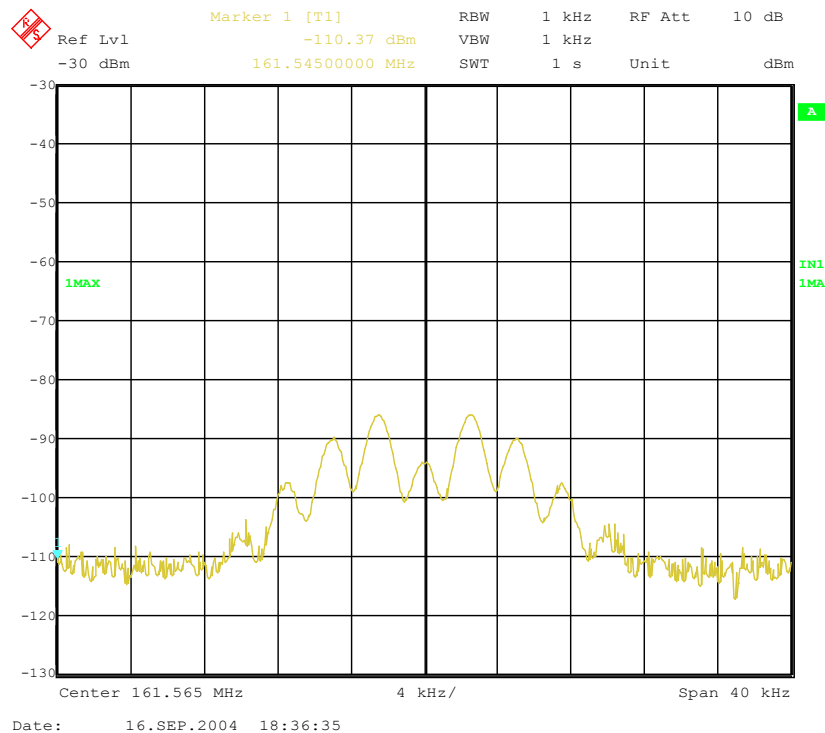


160.665 MHz Signal Generator and amplifier deviation set to 5kHz

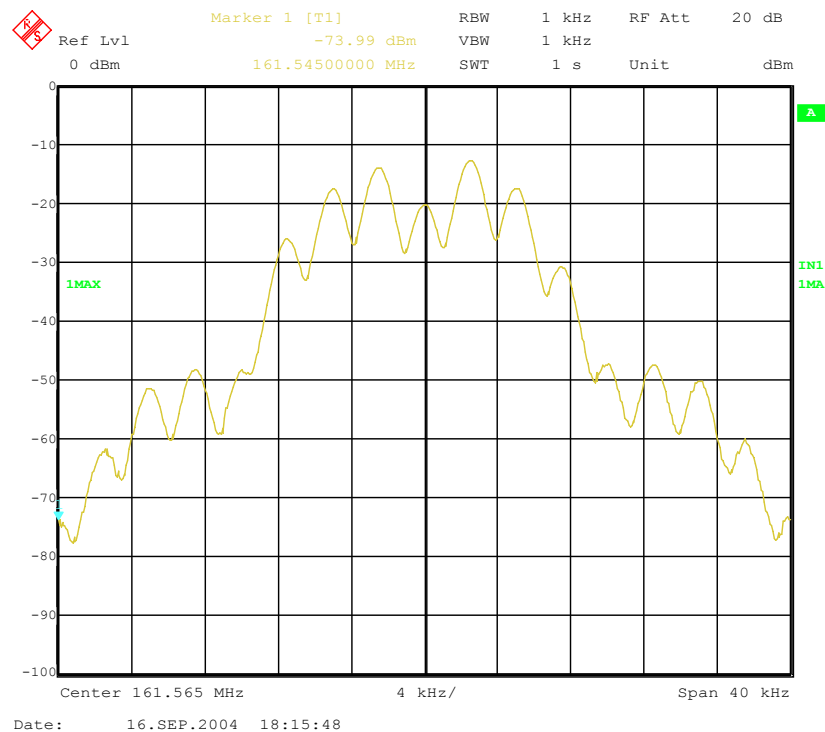


The above plots depicting the output wave shape show no measurable distortion visible. When compared to the input signal.

161.556 MHz Signal Generator deviation set to 5kHz



161.556 MHz Signal Generator deviation set to 5kHz



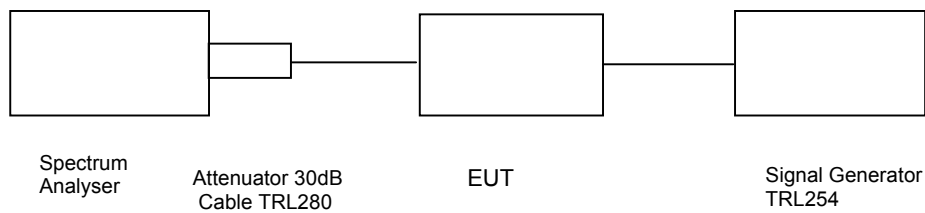
The above plots depicting the output wave shape show no measurable distortion visible. When compared to the input signal.

TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – CONDUCTED – Part 2.1051– DOWNLINK

Ambient temperature = 23°C
 Relative humidity = 51%
 Supply voltage = +110 Vac

Radio Laboratory
 Test Signal = F3E



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating at maximum power and on three test frequencies. The EUT's downlink path had 10dB's of internal attenuation switched in.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more than 250% of the authorised bandwidth

At least $43 + 10 \log P_{dB}$

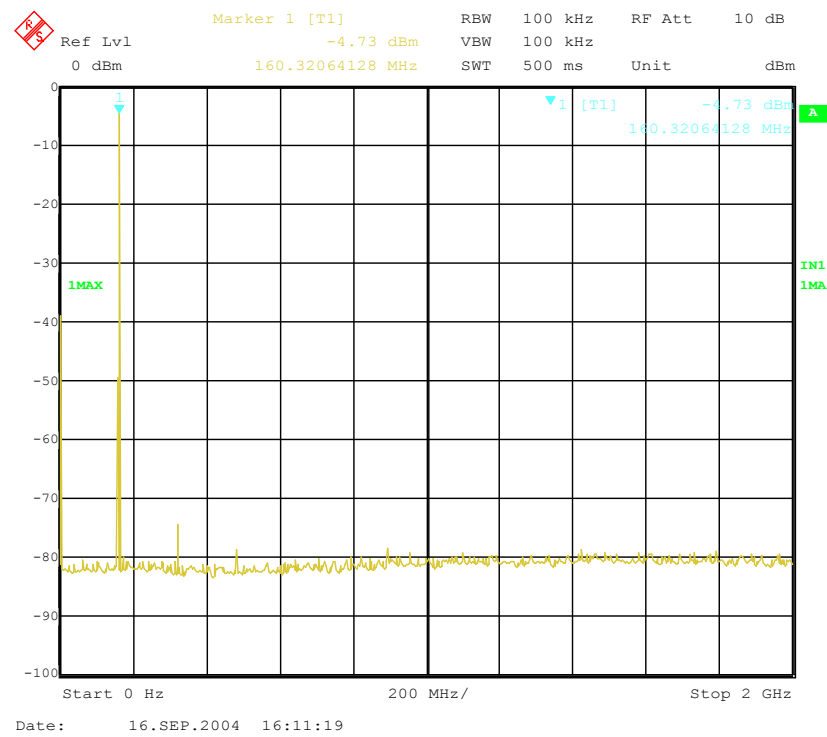
$$(10 \log P_{\text{watts}}) - (43 + 10 \log (P_{\text{watts}} * 1000)) = \text{LIMIT} = -13 \text{ dBm}$$

The test equipment used for the Transmitter Conducted Emissions:

TYPE OF EQUIPMENT	MAKER/SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
ATTENUATOR	AFL	10-002530	8616	N/A	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119388/021	254	X

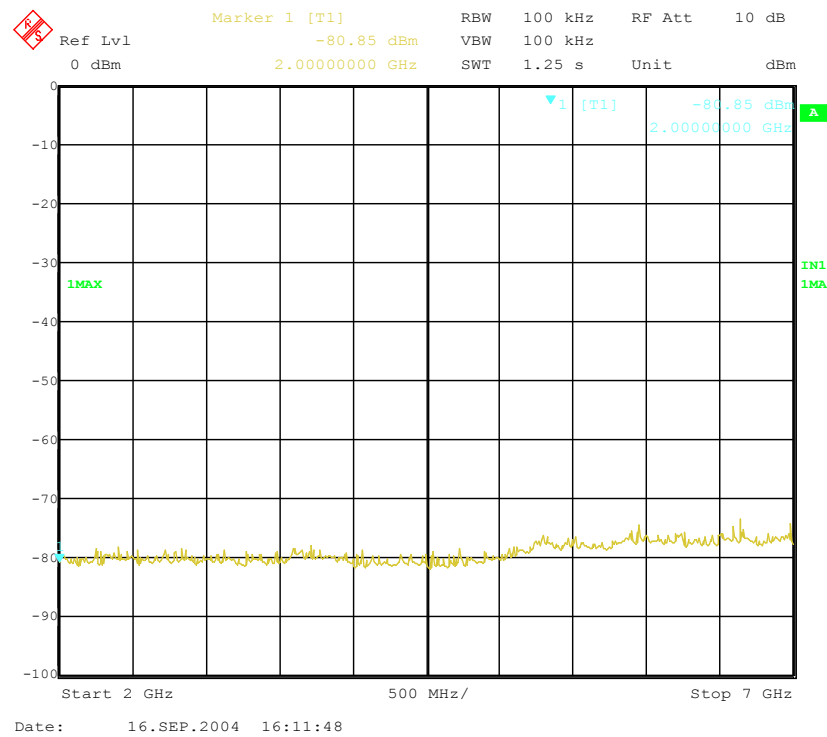
Conducted emissions 160.380 MHz

0-2GHz



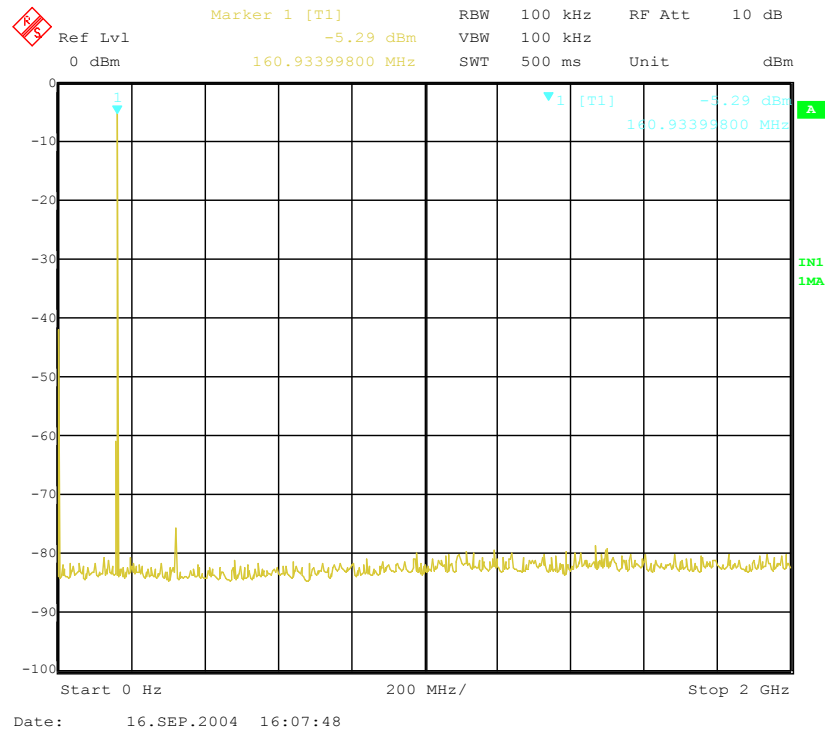
Conducted emissions 160.380 MHz

2-7GHz



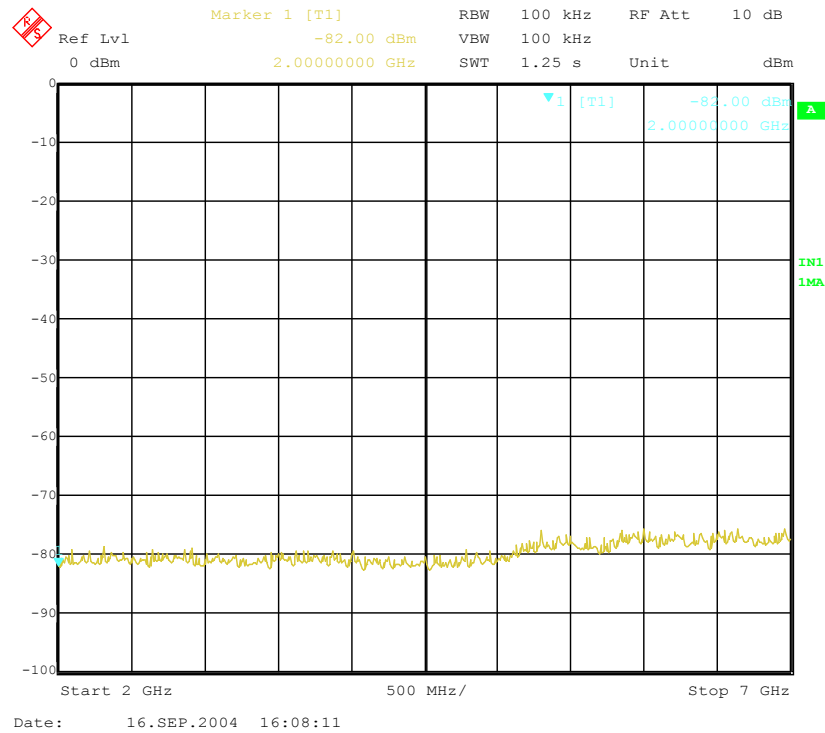
Conducted emissions 160.665 MHz

0-2GHz



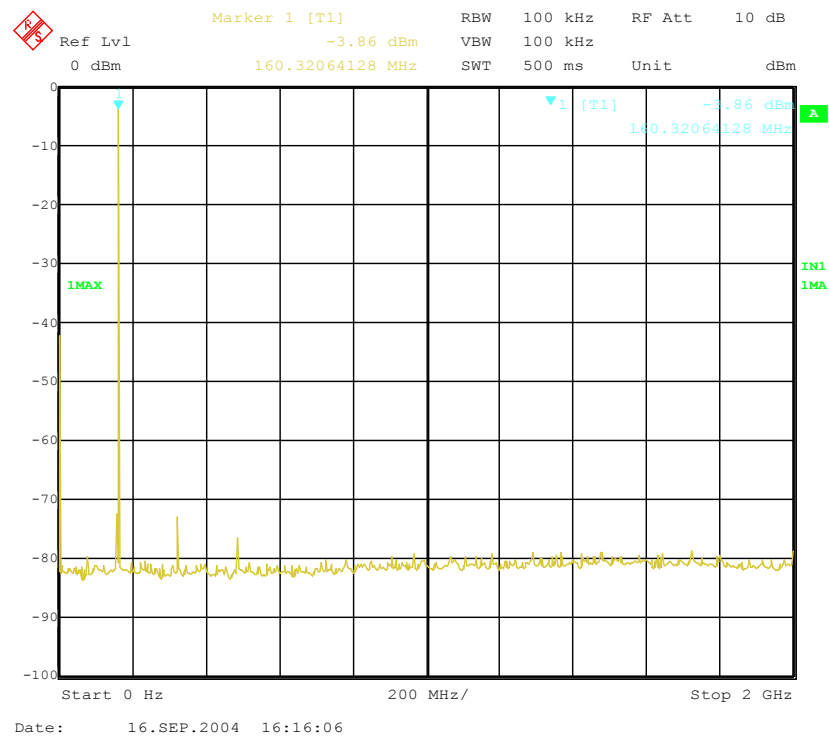
Conducted emissions 160.665 MHz

2-7GHz



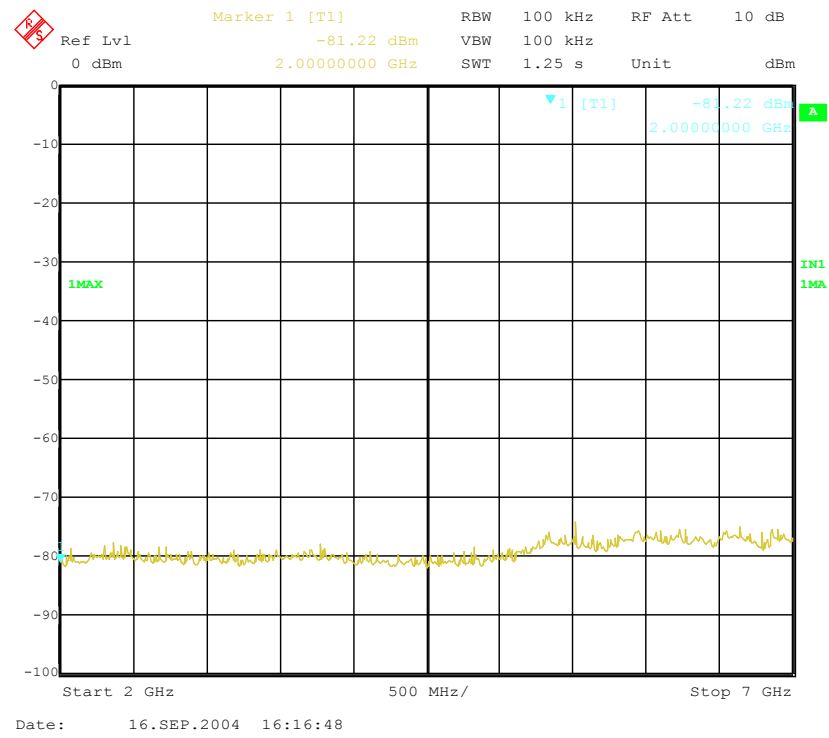
Conducted emissions 161.556 MHz

0-2GHz



Conducted emissions 161.556 MHz

2-7GHz

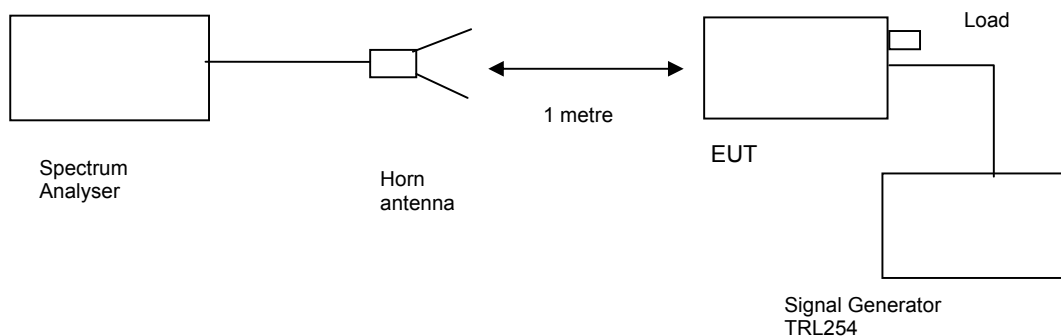


TRANSMITTER TESTS

AMPLIFIER SPURIOUS EMISSIONS – RADIATED – Part 2.1053– DOWNLINK

Ambient temperature = 18°C
 Relative humidity = 51%
 Conditions = OATS
 Supply voltage = +110 Vac
 Supply Frequency = N/A

Test Signal = F3E



The test was set up as per the diagram. The level at the input was adjusted to compensate for the loss of the interconnecting cable. The unit was tested operating maximum power on three test frequencies with a 50 ohm load connected to the output. The unit was also tested with the signal generator replaced by another 50ohm load. The EUT's downlink path had 10dB's of internal attenuation switched in.

The Spurious limit was calculated as follows:

On any frequency removed from the assigned frequency by more that 250% of the authorised bandwidth

At least $43 + 10 \log P_{dB}$

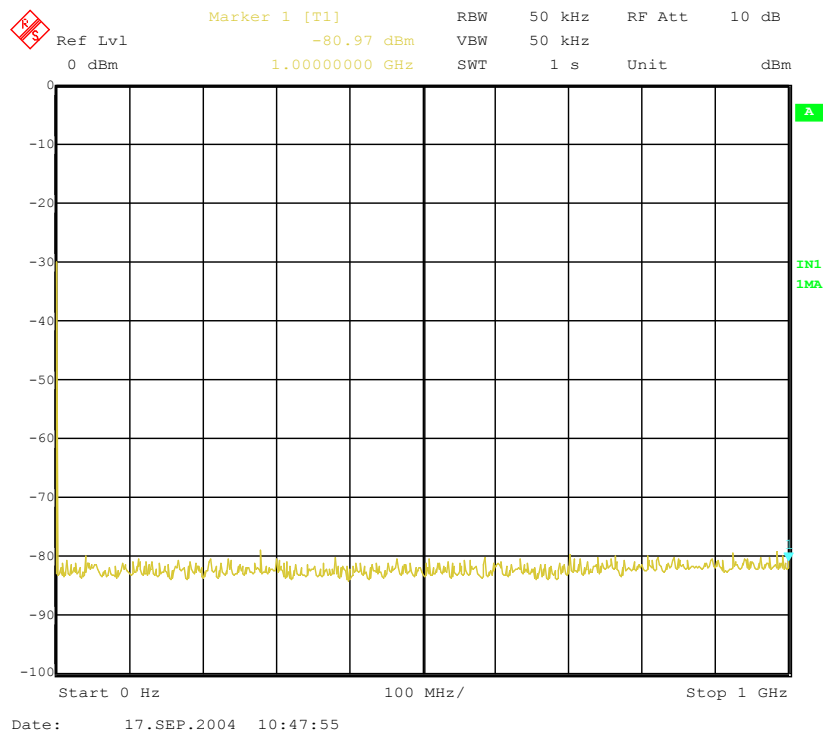
$$(10 \log P_{\text{watts}}) - (43 + 10 \log (P_{\text{watts}} * 1000)) = \text{LIMIT} = -13 \text{ dBm}$$

The test equipment used for the Transmitter Spurious Emissions:

TYPE OF EQUIPMENT	MAKER/ SUPPLIER	MODEL No	SERIAL No	TRL No	ACTUAL EQUIPMENT USED
SPECTRUM ANALYSER	RHODE & SCHWARZ	ESIB 7	100 182	630	X
HORN	EMCO	3115	9010-3581	139	X
50Ω LOAD	RHODE & SCHWARZ	200.0019.55	300804/32	UH227	X
CABLE	ROSENBERGER	MICRO COAX	N/A	280	X
SIGNAL GENERATOR	MARCONI	2042	119388/021	254	X

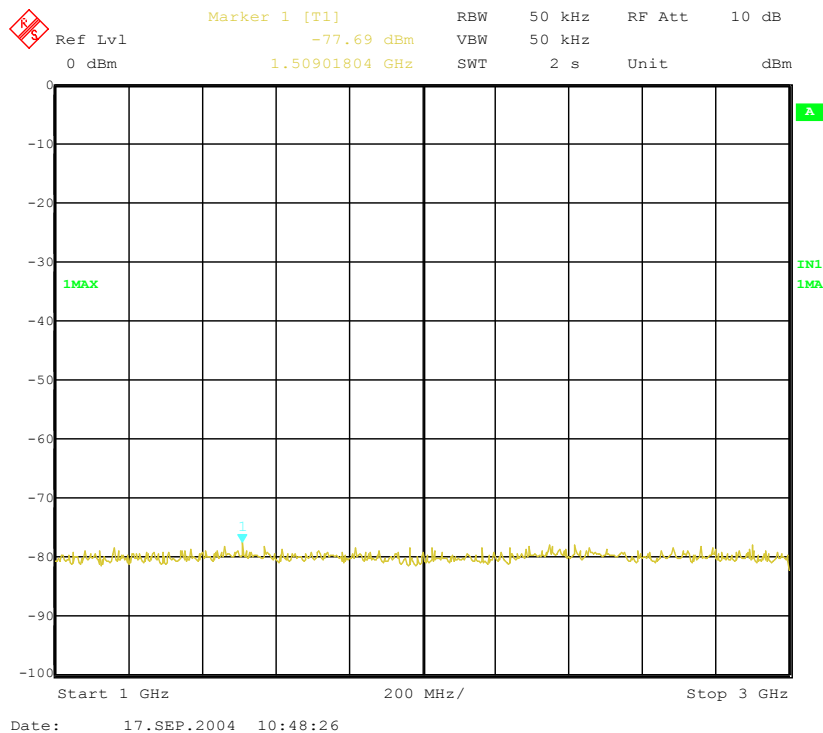
Radiated emissions 160.380 MHz

0-1GHz



Radiated emissions 160.380 MHz

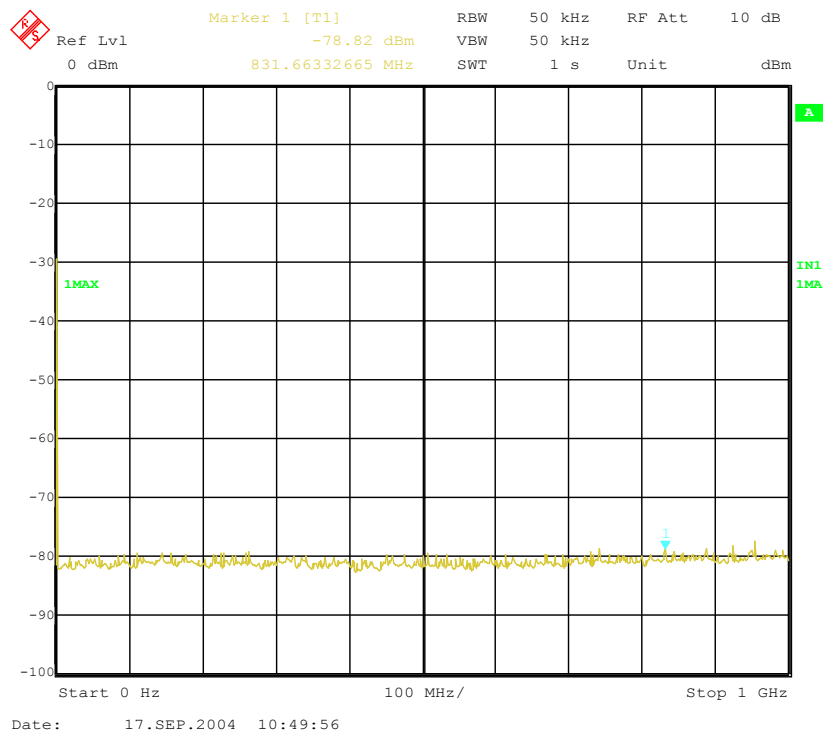
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

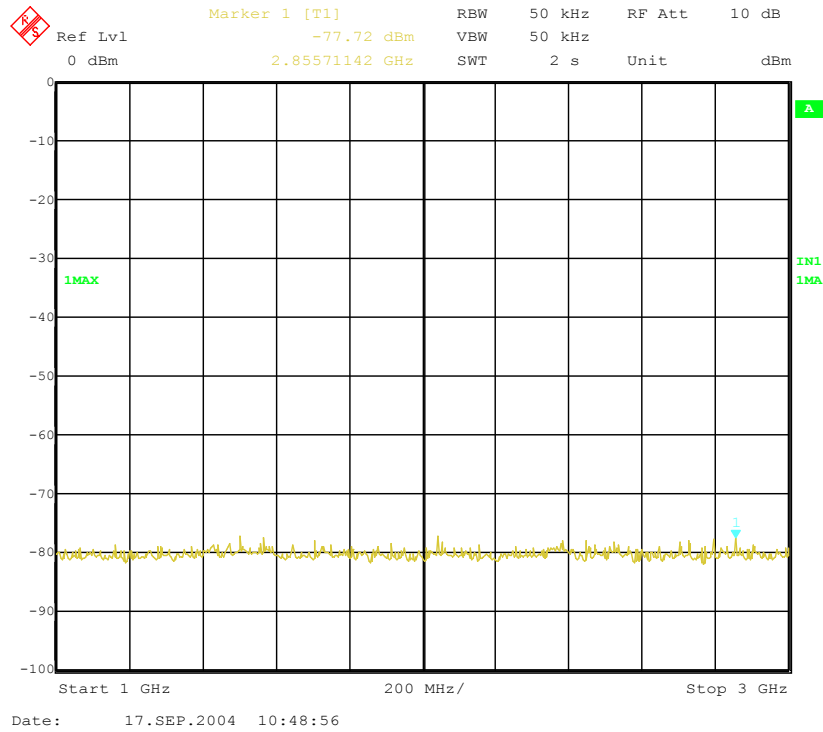
Radiated emissions 160.665 MHz

0-1GHz



Radiated emissions 160.665 MHz

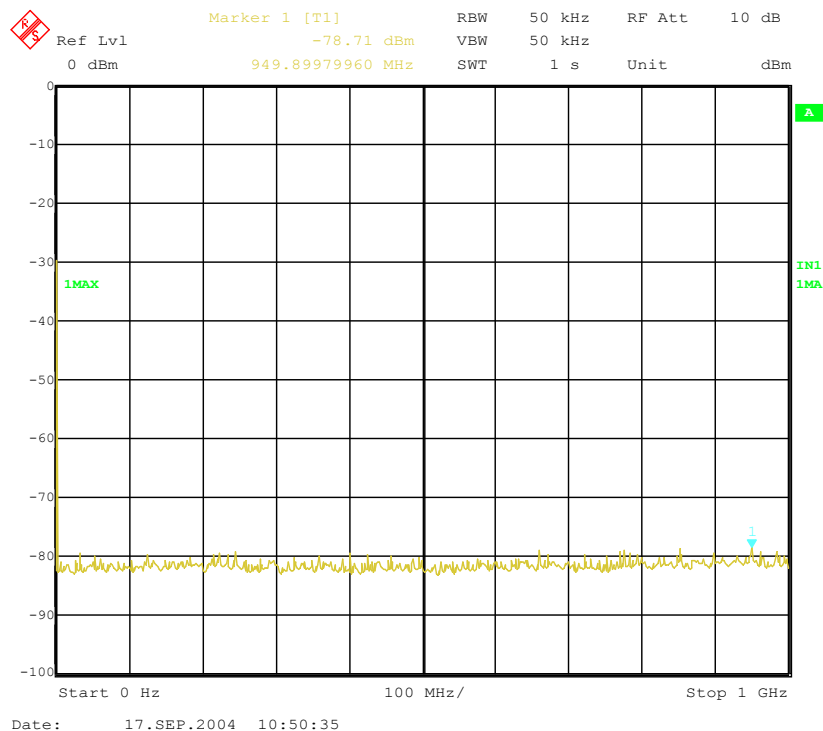
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit

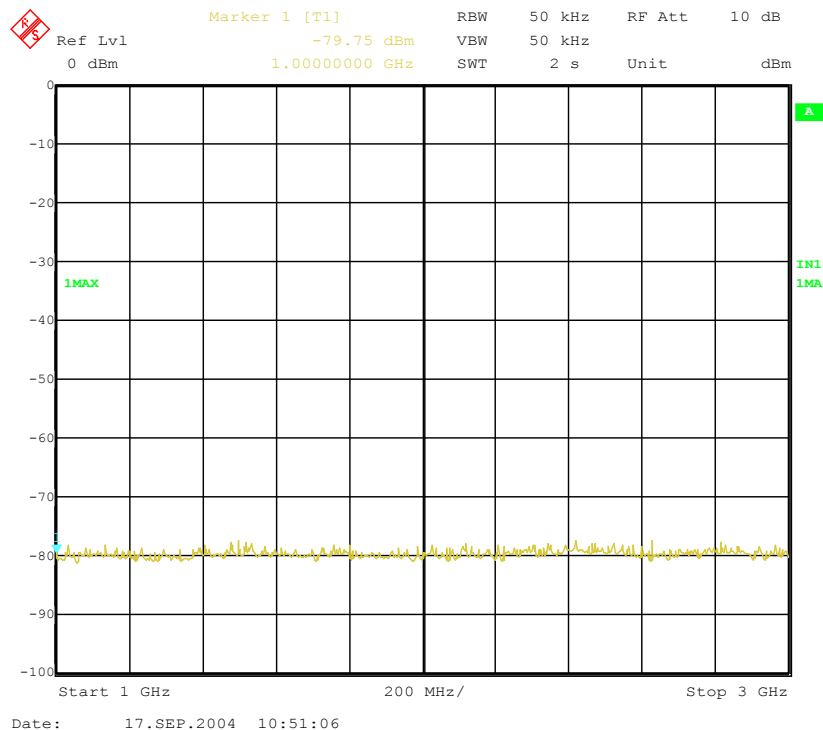
Radiated emissions 161.556 MHz

0-1GHz



Radiated emissions 161.556 MHz

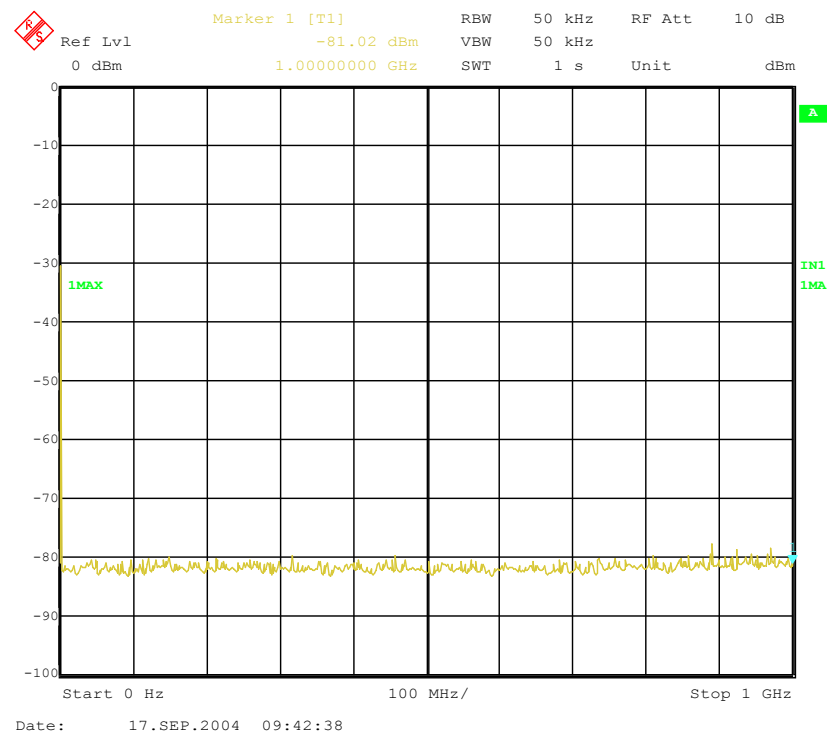
1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

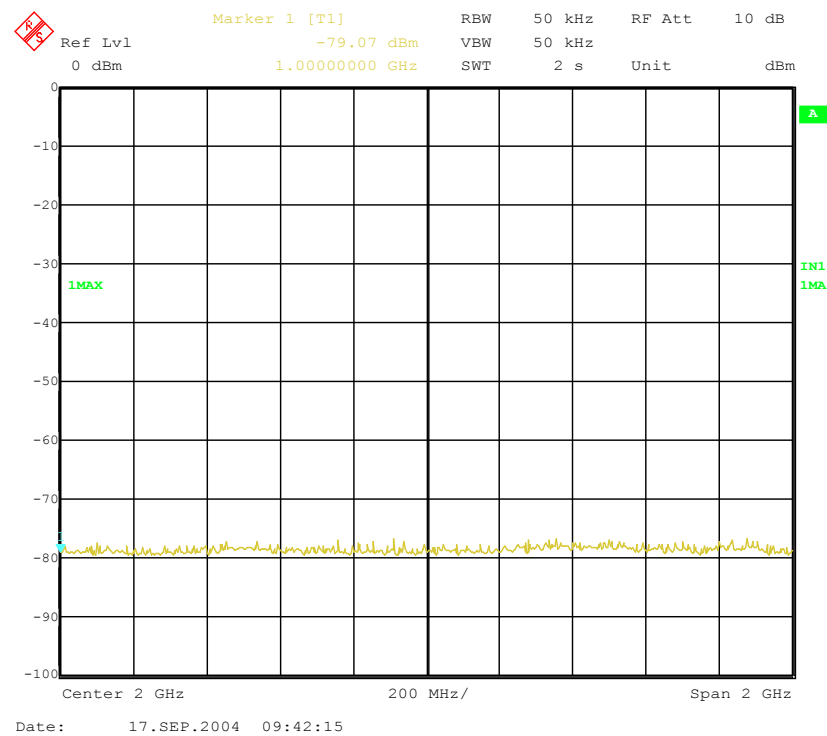
Radiated emissions no input signal

0-1GHz



Radiated emissions no input signal

1-3GHz



The above test results show that there were no emissions within 20dBs of the -13dBm limit.

ANNEX A
PHOTOGRAPHS

PHOTOGRAPH No. 1

TEST SETUP



PHOTOGRAPH No. 2

TEST SETUP



ANNEX B
APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

APPLICANT'S SUBMISSION OF DOCUMENTATION LIST

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