Conformance Test Report for EN301 406 V1.5.1 (2003-07) Digital Enhanced Cordless Telecommunic. (DECT); Harmonized EN for Digital Enhanced Cordless Telecommunications(DECT) covering essential requirements under article 3.2 of R&TTE Directive; Generic radio

Report No.: 06-05-CAT-012

Client:	Aztech Systems Ltd.
Product:	DECT Phone
System Under Test (SUT):	H315-S1 (FP)
Manufacturer	Aztech Systems Ltd.
Date test item received:	2006/05/08
Date test campaign completed	2006/06/12
Date of issue:	2006/06/13

The test report include test result of conformance log layer 1.
Total number of pages of this test report: 27 pages

Tested by	Checked by	Approved by
Alex Chen	David Song	Jeff Pong

TÜV SÜD Hong Kong Ltd.
TÜV SÜD Group
Unit 601 InnoCentre, 72 Tat Chee Avenue, Kowloon Tong, Kowloon

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1.1 Reason for measurements and identification of the protocol

The Test Candidate shall be tested to

DECT, General terminal attachment requirements

EN 301 406	V1.5.1 (2003-07)
EN 300 175-2, PHL	July 2003

1.1.1 Global statement of conformance

Has the applicant filled out the Client Test Preparation Information in accordance to EN301 406	**Yes**

see annex EN301 406 Statement of the applicant“

1.2 Identification and functional description of the test candidate

1.2.1 Client identification

Name	Aztech Systems Ltd.
Contact person	Mr. Low Wei Chong
Address	31 Ubi Road 1, Aztech Building, Singapore
Phone No.	+86 755 2533 1110
Fax No.	+86 755 2533 1117

1.2.2 Identification of the Test Candidate:

RFPI of the FP with int. antenna	- -
RFPI of the FP with temp. ant. con.	0090F9A818
Hardware version	- -
Software version	- -
Operating voltage nom/min/max	230VAC/207VAC/253VAC
Serial No of the FP with int. antenna.	- -
Serial No of the FP with temp. ant. con.	- -

1.2.3 Functional description

The Test Candidate is a fixed part with integrated antennas of a cordless telephone system for 3.1 kHz voice-communications on **DECT-standard.** For the integrated antennas a diversity-switch is included to the equipment. This fixed part(FP)is used in combination with a portable part (PP) for connections to the analogue public switched telephone network

For the tests one sample with integrated antenna and one sample with 50 Ω-connector were available to the test lab.

1.3 Climatic Conditions

Temperature °C	Rel. Humidity %	Atmospheric Pressure
nominal value		
aimed +15°C - +35°C	aimed 20% - 75%	aimed 86 - 106 kPa

The requirements for temperature, rel. humidity and atmospheric pressure were observed and be within the specified range.

1.4 Measurement accuracy

The measurement accuracy is in accordance with EN301 406 V1.5.1 (2003-07).
Note: All values reflect a confidence level of 95 %.
The actual measurement uncertainties are described at each test.

1.5 Test equipment used

Equipment	Inventory-No.:
R&S DECT Type approval system TS 8930 FTAS:	
Process Controller	H1882000176
R&S Signalling unit TS1220	-
RF-Generator	H1882000179
RF-Generator	H1882000187
Spectrum- Analyzer	H1882000186
Switch Matrix	H1882000185
RF-Generator	H1882000162
Software	DOS-Version 3.02F from 19.02.99
Anechoic Chamber V	
Spectrum- Analyzer	H1882000161
RF-Pre-Amplifier	H1882000169
RF-Pre-Amplifier	H1882000170
RF-Filter	H1882000189
RF-Filter	H1882000190
RF-Antenna	H1882000145
RF-Antenna	H1882000146
RF-Antenna	H1882001604
RF-Antenna	H1882001605
Control-PC	H1882000140
Software T_Case_12	V 3.1 from 19.07.99

1.6 Explanation of the results abbreviations

P = pass, inside of the specification
P* = pass, inside of the specification in consideration of the test accuracy
F = failed, exceeding the specification
O = not implicated
- = not tested
? = no clear result considering to the specification
* = see note

1.7 Comments for testing

Delivery date of Test Candidate: . 2006.05.08
The tests were done from 2006.05.08 at 2006.06.12

Electronics Testing Center ,Taiwan
No.8, Lane 29, Wen-Ming Road Lo-ShanTsun Kui-Shan Hsiang
Taoyuan Hsien 333, Taiwan R.O.C.

During the tests were present:
Mr. Alex Chen from **ETC**
Mr. Jeff Pong from **TÜV SÜD Hong Kong Ltd.**
Mr. Low Wei Chong from **Aztech Systems Ltd.**

The test set-up and tests are according toEN301 406 V1.5.1(2003-07) and **DTAAB DT.04 V10 from 11/99** and the internal test comments of the test lab.

All measurements, in exception of parts of Testcase 6 and Testcase 12, were done at the equipment with 50 Ω-temporary antenna connector.

All radiated measurements were done in the anechoic chamber
The test site and the whole test equipment is according to standards
EN301 406 V1.5.1 (2003-07).

2 IUT conformance status according to EN301 406 V1.5.1(2003-07)

2.1 IUT conformance summary

The IUT **has not been** shown by conformance assessment to be non conforming to the general terminal attachment requirements, EN301 406

2.2 EN301 406 results overview

Test case	Point	Testcase description	Remarks	Sel.	Run	Verdict
1	4.5.1	Accuracy and stability of RF carriers		Y	Y	**Pass**
2	4.5.2	Timing jitter: slot - slot on the same channel		Y	Y	**Pass**
3		Reference timing accuracy of a RFP		Y	Y	**Pass**
4		Measurement of packet timing accuracy	only for portable part	N	N	-----
5	4.5.3	Transmission burst		Y	Y	**Pass**
6	4.5.4.1.1	Transmitted power (with an internal antenna) NTP		Y	Y	**Pass**
7	4.5.4.1.2	Transmitted power (with an external antenna connector)		Y	Y	**Pass**
8	4.5.5	RF carrier modulation		Y	Y	**Pass**
9	4.5.6.2	Emissions due to modulation		Y	Y	**Pass**
10	4.5.6.3	Emissions due to transmitter transients		Y	Y	**Pass**
11	4.5.6.4	Emissions due to intermodulation	only for basestation with more than one transmitter	N	N	---
12	4.5.6.5	Spurious emissions when allocated a transmit channel	Conducted spurious	Y	Y	**Pass**
			Radiated spurious			**Pass**
13	4.5.7.1	Radio receiver sensitivity		Y	Y	**Pass**
14	4.5.7.2	Radio receiver reference bit error ratio		Y	Y	**Pass**
15	4.5.7.3	Radio receiver interference performance		Y	Y	**Pass**
16	4.5.7.4	Radio receiver blocking case 1		Y	Y	**Pass**
17	4.5.7.5	Radio receiver blocking case 2		Y	Y	**Pass**
18	4.5.7.6	Receiver intermodulation performance		Y	Y	**Pass**
19	4.5.7.7	Spurious emissions when the radio endpoint has no allocated transmit channel	only for portable part	N	N	---

EN301 406 V1.5.1(2003-07) results overview

Test case	Point	Testcase description	Remarks	Sel.	Verdict
20	4.5.8	Synchronisation port		N	**No test**
21	4.5.9	Equipment identity verification /safeguards		N	**Manufacturer declaration**
22	4.5.10	Efficient use of radio spectrum		N	**Manufacturer declaration**
23	4.5.11	WRS		N	**No test**
24	4.5.12	PP to PP communication		N	**No test**
25	4.5.13	Direct communication		N	**No test**
26	4.5.14	Higher level modulation		N	**No test**

2.3 Test campaign report

2.3.1 TC 1 Accuracy and stability of RF carriers (4.5.1)

aimed for t ≥ 1 s with Δ f ≤ ± 50 kHz under nominal and extreme conditions

	Deviation [kHz]			
	channel 0	channel 5	Channel 9	
nom. temperature and nom. Voltage	**3.25**	**-0.23**	**-3.89**	P
+10°C and minimum voltage	**6.94**	**4.20**	**0.62**	P
+10°C and maximum voltage	**8.20**	**3.79**	**0.74**	P
+40°C and minimum voltage	**0.28**	**-2.91**	**-5.51**	P
+40°C and maximum voltage	**1.22**	**-2.58**	**-5.01**	P

Measurement uncertainty: < 1%
Comment:minimum voltage =207V

2.3.2 TC 2 Timing jitter: slot- slot on the same channel (4.5.2)

Test in channel 5 aimed < ± 1 µs	Deviation [µs]		
	positive	Negative	
nom. temperature and nom. Voltage	**0.076**	**-0.057**	P
+10°C and minimum voltage	**0.030**	**-0.104**	P
+10°C and maximum voltage	**0.027**	**-0.100**	P
+40°C and minimum voltage	**0.086**	**-0.042**	P
+40°C and maximum voltage	**0.092**	**-0.035**	P

Measurement uncertainty: <= 77.4 ns
Comment:minimum voltage =207V

2.3.3 TC 3 Reference timing accuracy of a RFP

Test in channel 5	Aimed	Deviation [ppm]	
nom. temperature and nom. Voltage	< 5 ppm	**0.43**	P
+10°C and minimum voltage	< 10 ppm	**-3.36**	P
+10°C and maximum voltage	< 10 ppm	**-3.44**	P
+40°C and minimum voltage	< 10 ppm	**2.26**	P
+40°C and maximum voltage	< 10 ppm	**2.47**	P

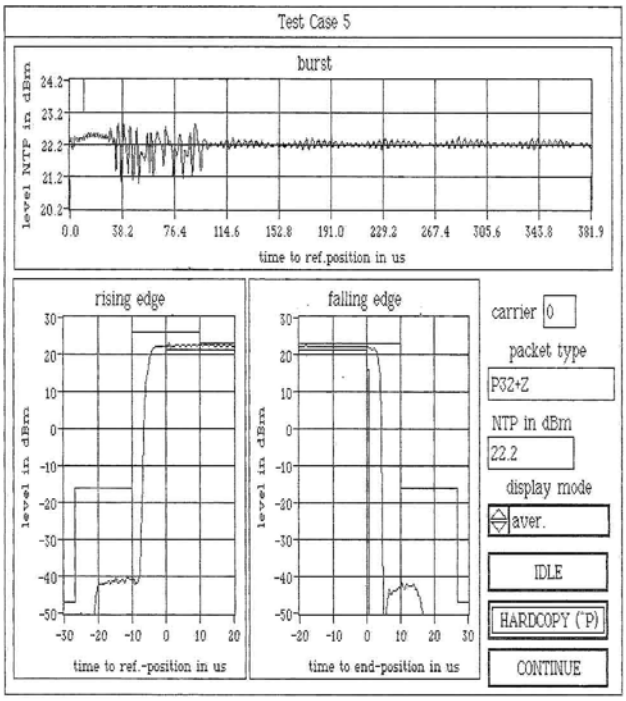
Measurement uncertainty: <= 77.4 ns
Comment:minimum voltage =207V

2.3.4 TC 4 Measurement of packet timong accuracy

only recommended for portable parts

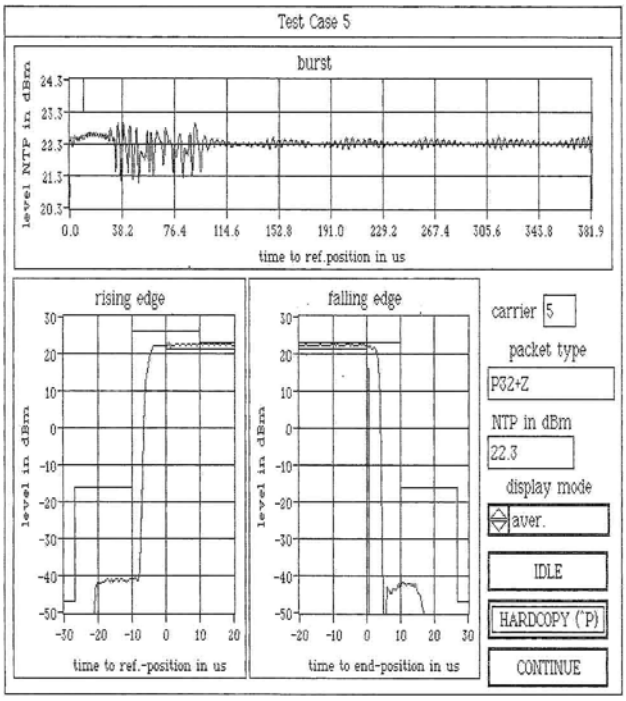
2.3.5 TC 5 Transmission Burst (4.5.3)

Measurement uncertainty: + 0.85 dB / -0.92 dB



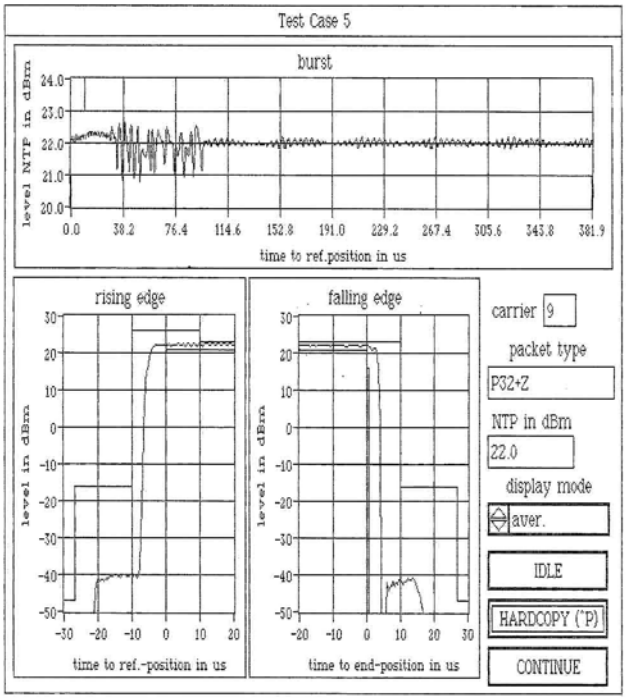
Nom. temperature and nom. Voltage

p



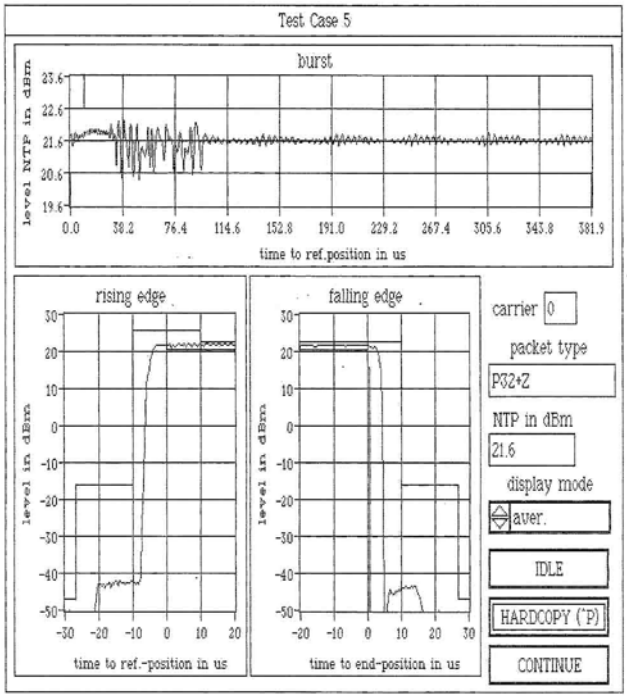
Nom. temperature and nom. voltage

P



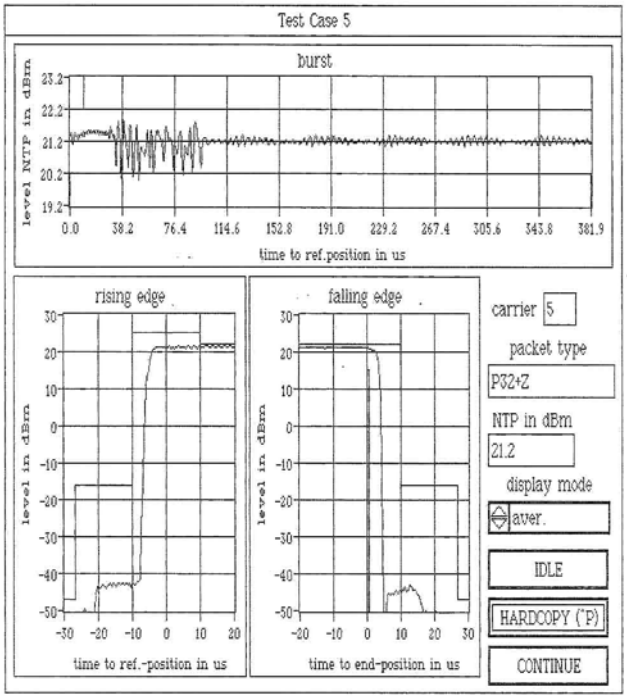
Nom. temperature and nom. voltage

P

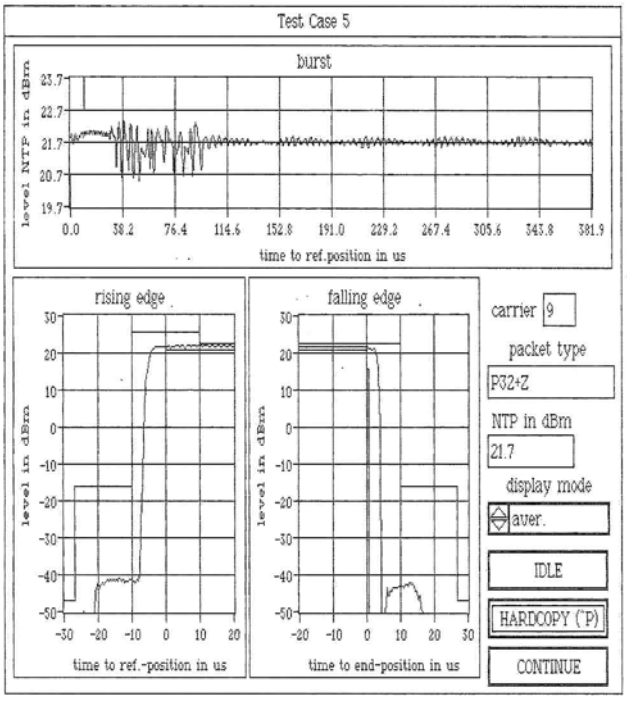


+10°C temperature and nom. Voltage

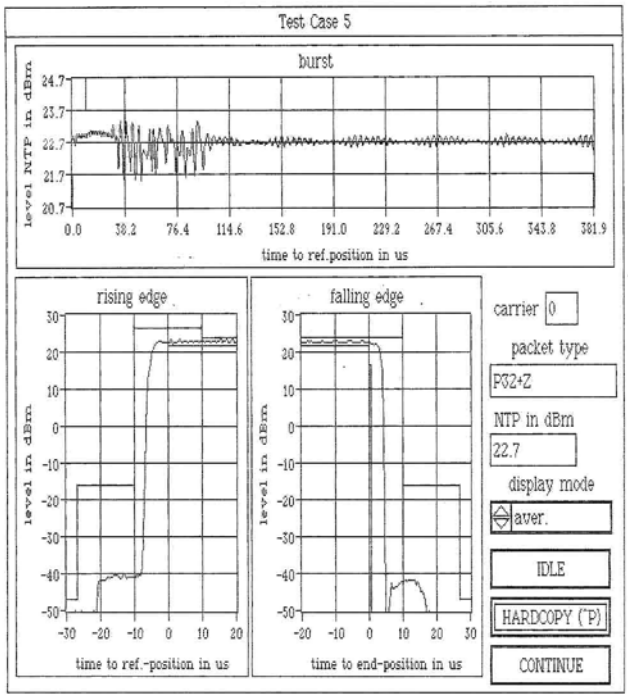
P



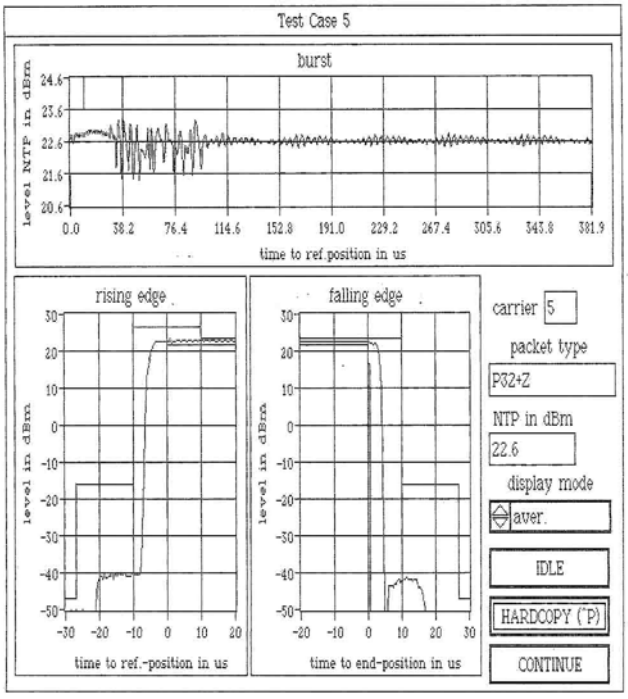
+10°C temperature and nom. voltage P



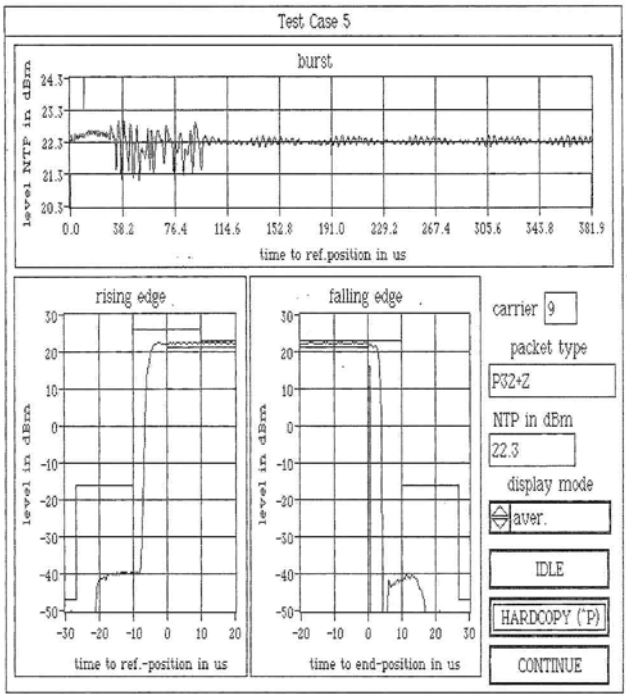
+10°C temperature and nom. voltage P



+40°C temperature and nom. voltage | P



+40°C temperature and nom. voltage | P



+40°C temperature and nom. voltage P

2.3.6 TC 6 Transmitted power: PP and FP with internal antenna (4.5.4.1.1)

Conducted RF-output power in the Burst: aimed ≤ 250 mW (24 dBm)
Height of receive antenna actual = **1.50 m**
Radiated field strength maximum at position in degrees ant. 0 actual = **10°** hor
ant. 1 actual = **230°** ver

Antenna gain: aimed with max. 12 dB

Antenna 0	conducted Power	radiated Power	Antenna gain
Channel 0	22.30 dBm	21.76 dBm	-0.54 dB
Channel 5	22.30 dBm	22.02 dBm	-0.28 dB
Channel 9	22.10 dBm	21.24 dBm	-0.86 dB

P

Measurement uncertainty radiated: + 3.53 dB / -3.53 dB
Measurement uncertainty conducted: + 0.85 dB / -0.92 dB

2.3.7 TC 7 Transmitted power: FP with an external ant. connector (4.5.4.1.2)

not applicable

2.3.8 TC 8 RF-carrier modulation (4.5.5)

part 1: aimed > ± 259 kHz < ± 403 kHz
part 2-3: aimed > ± 202 kHz < ± 403 kHz
part 4: aimed < ± 15 kHz/slot

Measurement uncertainty part 1-3: ± 10 kHz
part 4: ± 2 kHz

TRAFFIC SLOT: 8
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z

part1: 10 bursts evaluated		
maximum positive modulation:	352.57 kHz	P
maximum negative modulation:	-353.51 kHz	P
part2: 10 bursts evaluated		
maximum positive modulation:	350.30 kHz	P
maximum negative modulation:	-350.76 kHz	P
part3: 10 bursts evaluated		
maximum positive modulation:	326.00 kHz	P
maximum negative modulation:	-326.80 kHz	P
part4: 200 bursts evaluated		
averaged frequency drift:	3.80 kHz/slot	P

2.3.9 TC 9 Emissions due to modulation (4.5.6.2)

Measurement uncertainty: + 0.49 dB / -0.51 dB
One exception <-33 dBm (500 nW) permissible

TRAFFIC SLOT: 10
TRAFFIC CARRIER: 0
PACKET TYPE: P32+Z
measured NTP: 22.20 dBm

		measured values	limits	
CARRIER 0:	integrated power	22.20 dBm	---	P
CARRIER 1:	integrated power	-16.00 dBm	-8 dBm	P
CARRIER 2:	integrated power	-38.62 dBm	-30 dBm	P
CARRIER 3:	integrated power	-47.58 dBm	-41 dBm	P
CARRIER 4:	integrated power	-49.22 dBm	-44 dBm	P
CARRIER 5:	integrated power	-50.26 dBm	-44 dBm	P
CARRIER 6:	integrated power	-50.81 dBm	-44 dBm	P
CARRIER 7:	integrated power	-51.12 dBm	-44 dBm	P
CARRIER 8:	integrated power	-51.33 dBm	-44 dBm	P
CARRIER 9:	integrated power	-51.31 dBm	-44 dBm	P

TRAFFIC SLOT: 0
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
measured NTP: 22.30 dBm

		measured values	limits	
CARRIER 0:	integrated power	-49.84 dBm	-44 dBm	P
CARRIER 1:	integrated power	-48.75 dBm	-44 dBm	P
CARRIER 2:	integrated power	-46.21 dBm	-41 dBm	P
CARRIER 3:	integrated power	-38.12 dBm	-30 dBm	P
CARRIER 4:	integrated power	-16.96 dBm	-8 dBm	P
CARRIER 5:	integrated power	22.30 dBm	---	P
CARRIER 6:	integrated power	-15.53 dBm	-8 dBm	P
CARRIER 7:	integrated power	-37.98 dBm	-30 dBm	P
CARRIER 8:	integrated power	-46.75 dBm	-41 dBm	P
CARRIER 9:	integrated power	-48.48 dBm	-44 dBm	P

TRAFFIC SLOT: 2
TRAFFIC CARRIER: 9
PACKET TYPE: P32+Z
measured NTP: 22.00 dBm

		measured values	limits	
CARRIER 0:	integrated power	-51.24 dBm	-44 dBm	P
CARRIER 1:	integrated power	-51.07 dBm	-44 dBm	P
CARRIER 2:	integrated power	-50.86 dBm	-44 dBm	P
CARRIER 3:	integrated power	-50.56 dBm	-44 dBm	P
CARRIER 4:	integrated power	-49.95 dBm	-44 dBm	P
CARRIER 5:	integrated power	-48.90 dBm	-44 dBm	P
CARRIER 6:	integrated power	-46.23 dBm	-41 dBm	P
CARRIER 7:	integrated power	-38.18 dBm	-30 dBm	P
CARRIER 8:	integrated power	-17.54 dBm	-8 dBm	P
CARRIER 9:	integrated power	22.00 dBm	---	P

2.3.10 TC 10 Emissions due to transmitter transients (4.5.6.3)

Measurement uncertainty: + 0.49 dB / -0.51 dB

TRAFFIC SLOT: 4
TRAFFIC CARRIER: 0
PACKET TYPE: P32+Z

		measured values		limits	
CARRIER 0:	max. Power	181.37 mW	(22.59 dBm)	---	p
CARRIER 1:	max. Power	249.09 uW	(-6.04 dBm)	-6 dBm	p
CARRIER 2:	max. Power	261.22 nW	(-35.83 dBm)	-14 dBm	p
CARRIER 3:	max. Power	21.26 nW	(-46.72 dBm)	-24 dBm	p
CARRIER 4:	max. Power	13.79 nW	(-48.60 dBm)	-30 dBm	p
CARRIER 5:	max. Power	13.71 nW	(-48.63 dBm)	-30 dBm	p
CARRIER 6:	max. Power	9.83 nW	(-50.08 dBm)	-30 dBm	p
CARRIER 7:	max. Power	9.71 nW	(-50.13 dBm)	-30 dBm	p
CARRIER 8:	max. Power	7.82 nW	(-51.07 dBm)	-30 dBm	p
CARRIER 9:	max. Power	7.64 nW	(-51.17 dBm)	-30 dBm	p

TRAFFIC SLOT: 6
TRAFFIC CARRIER: 1
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	126.22 uW (-8.99 dBm)	-6 dBm	p
CARRIER 1:	max. Power	173.08 mW (22.38 dBm)	---	p
CARRIER 2:	max. Power	248.97 uW (-6.04 dBm)	-6 dBm	p
CARRIER 3:	max. Power	281.85 nW (-35.50 dBm)	-14 dBm	p
CARRIER 4:	max. Power	20.06 nW (-46.98 dBm)	-24 dBm	p
CARRIER 5:	max. Power	16.15 nW (-47.92 dBm)	-30 dBm	p
CARRIER 6:	max. Power	11.37 nW (-49.44 dBm)	-30 dBm	p
CARRIER 7:	max. Power	10.06 nW (-49.97 dBm)	-30 dBm	p
CARRIER 8:	max. Power	7.69 nW (-51.14 dBm)	-30 dBm	p
CARRIER 9:	max. Power	8.39 nW (-50.76 dBm)	-30 dBm	p

TRAFFIC SLOT: 8
TRAFFIC CARRIER: 2
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	265.84 nW (-35.75 dBm)	-14 dBm	p
CARRIER 1:	max. Power	112.94 uW (-9.47 dBm)	-6 dBm	p
CARRIER 2:	max. Power	165.17 mW (22.18 dBm)	---	p
CARRIER 3:	max. Power	245.37 uW (-6.10 dBm)	-6 dBm	p
CARRIER 4:	max. Power	217.92 nW (-36.62 dBm)	-14 dBm	p
CARRIER 5:	max. Power	21.14 nW (-46.75 dBm)	-24 dBm	p
CARRIER 6:	max. Power	21.77 nW (-46.62 dBm)	-30 dBm	p
CARRIER 7:	max. Power	9.54 nW (-50.20 dBm)	-30 dBm	p
CARRIER 8:	max. Power	11.92 nW (-49.24 dBm)	-30 dBm	p
CARRIER 9:	max. Power	9.43 nW (-50.25 dBm)	-30 dBm	p

TRAFFIC SLOT: 10
TRAFFIC CARRIER: 3
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	29.67 nW (-45.28 dBm)	-24 dBm	p
CARRIER 1:	max. Power	293.63 nW (-35.32 dBm)	-14 dBm	p
CARRIER 2:	max. Power	121.15 uW (-9.17 dBm)	-6 dBm	p
CARRIER 3:	max. Power	171.06 mW (22.33 dBm)	---	p
CARRIER 4:	max. Power	250.16 uW (-6.02 dBm)	-6 dBm	p
CARRIER 5:	max. Power	324.31 nW (-34.89 dBm)	-14 dBm	p
CARRIER 6:	max. Power	25.79 nW (-45.89 dBm)	-24 dBm	p
CARRIER 7:	max. Power	23.62 nW (-46.27 dBm)	-30 dBm	p
CARRIER 8:	max. Power	11.78 nW (-49.29 dBm)	-30 dBm	p
CARRIER 9:	max. Power	10.73 nW (-49.69 dBm)	-30 dBm	p

TRAFFIC SLOT: 0
TRAFFIC CARRIER: 4
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	15.78 nW (-48.02 dBm)	-30 dBm	P
CARRIER 1:	max. Power	33.35 nW (-44.77 dBm)	-24 dBm	p
CARRIER 2:	max. Power	275.34 nW (-35.60 dBm)	-14 dBm	p
CARRIER 3:	max. Power	122.58 uW (-9.12 dBm)	-6 dBm	p
CARRIER 4:	max. Power	159.47 mW (22.03 dBm)	---	p
CARRIER 5:	max. Power	216.14 uW (-6.65 dBm)	-6 dBm	p
CARRIER 6:	max. Power	229.69 nW (-36.39 dBm)	-14 dBm	p
CARRIER 7:	max. Power	22.81 nW (-46.42 dBm)	-24 dBm	p
CARRIER 8:	max. Power	14.71 nW (-48.32 dBm)	-30 dBm	p
CARRIER 9:	max. Power	11.18 nW (-49.52 dBm)	-30 dBm	p

TRAFFIC SLOT: 4
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	13.24 nW (-48.78 dBm)	-30 dBm	p
CARRIER 1:	max. Power	16.63 nW (-47.79 dBm)	-30 dBm	p
CARRIER 2:	max. Power	30.20 nW (-45.20 dBm)	-24 dBm	p
CARRIER 3:	max. Power	242.10 nW (-36.16 dBm)	-14 dBm	p
CARRIER 4:	max. Power	106.53 uW (-9.73 dBm)	-6 dBm	p
CARRIER 5:	max. Power	173.08 mW (22.38 dBm)	---	p
CARRIER 6:	max. Power	242.95 uW (-6.14 dBm)	-6 dBm	p
CARRIER 7:	max. Power	237.89 nW (-36.24 dBm)	-14 dBm	p
CARRIER 8:	max. Power	27.50 nW (-45.61 dBm)	-24 dBm	p
CARRIER 9:	max. Power	21.02 nW (-46.77 dBm)	-30 dBm	p

TRAFFIC SLOT: 6
TRAFFIC CARRIER: 6
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	10.12 nW (-49.95 dBm)	-30 dBm	p
CARRIER 1:	max. Power	14.04 nW (-48.53 dBm)	-30 dBm	p
CARRIER 2:	max. Power	14.37 nW (-48.43 dBm)	-30 dBm	p
CARRIER 3:	max. Power	29.67 nW (-45.28 dBm)	-24 dBm	p
CARRIER 4:	max. Power	229.69 nW (-36.39 dBm)	-14 dBm	p
CARRIER 5:	max. Power	104.07 uW (-9.83 dBm)	-6 dBm	p
CARRIER 6:	max. Power	172.07 mW (22.36 dBm)	---	p
CARRIER 7:	max. Power	246.89 uW (-6.08 dBm)	-6 dBm	p
CARRIER 8:	max. Power	275.34 nW (-35.60 dBm)	-14 dBm	p
CARRIER 9:	max. Power	25.49 nW (-45.94 dBm)	-24 dBm	p

TRAFFIC SLOT: 8
TRAFFIC CARRIER: 7
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	10.67 nW (-49.72 dBm)	-30 dBm	p
CARRIER 1:	max. Power	13.16 nW (-48.81 dBm)	-30 dBm	p
CARRIER 2:	max. Power	12.42 nW (-49.06 dBm)	-30 dBm	p
CARRIER 3:	max. Power	15.78 nW (-48.02 dBm)	-30 dBm	p
CARRIER 4:	max. Power	30.91 nW (-45.10 dBm)	-24 dBm	p
CARRIER 5:	max. Power	228.35 nW (-36.41 dBm)	-14 dBm	p
CARRIER 6:	max. Power	107.15 uW (-9.70 dBm)	-6 dBm	p
CARRIER 7:	max. Power	170.07 mW (22.31 dBm)	---	p
CARRIER 8:	max. Power	246.67 uW (-6.08 dBm)	-6 dBm	p
CARRIER 9:	max. Power	242.10 nW (-36.16 dBm)	-14 dBm	p

TRAFFIC SLOT: 10
TRAFFIC CARRIER: 8
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	8.85 nW (-50.53 dBm)	-30 dBm	p
CARRIER 1:	max. Power	10.48 nW (-49.80 dBm)	-30 dBm	p
CARRIER 2:	max. Power	11.24 nW (-49.49 dBm)	-30 dBm	p
CARRIER 3:	max. Power	13.96 nW (-48.55 dBm)	-30 dBm	p
CARRIER 4:	max. Power	17.74 nW (-47.51 dBm)	-30 dBm	p
CARRIER 5:	max. Power	30.20 nW (-45.20 dBm)	-24 dBm	p
CARRIER 6:	max. Power	375.36 nW (-34.26 dBm)	-14 dBm	p
CARRIER 7:	max. Power	98.73 uW (-10.06 dBm)	-6 dBm	p
CARRIER 8:	max. Power	178.21 mW (22.51 dBm)	---	p
CARRIER 9:	max. Power	247.13 uW (-6.07 dBm)	-6 dBm	p

TRAFFIC SLOT: 0
TRAFFIC CARRIER: 9
PACKET TYPE: P32+Z

		measured values	limits	
CARRIER 0:	max. Power	9.83 nW (-50.08 dBm)	-30 dBm	p
CARRIER 1:	max. Power	9.27 nW (-50.33 dBm)	-30 dBm	p
CARRIER 2:	max. Power	9.27 nW (-50.33 dBm)	-30 dBm	p
CARRIER 3:	max. Power	10.54 nW (-49.77 dBm)	-30 dBm	p
CARRIER 4:	max. Power	12.34 nW (-49.09 dBm)	-30 dBm	p
CARRIER 5:	max. Power	14.20 nW (-48.48 dBm)	-30 dBm	p
CARRIER 6:	max. Power	34.75 nW (-44.59 dBm)	-24 dBm	p
CARRIER 7:	max. Power	283.51 nW (-35.47 dBm)	-14 dBm	p
CARRIER 8:	max. Power	104.07 uW (-9.83 dBm)	-6 dBm	p
CARRIER 9:	max. Power	167.11 mW (22.23 dBm)	---	p

2.3.11 TC 11 Emissions due to intermodulation (4.5.6.4)

only for basestations with several transmitters

2.3.12 TC 12 Spurious emissions when allocated a transmit chann l (4e.5.6.5)

Channel 5, radiated

30 MHz - 1 GHz	aimed ≤ -36 dBm	actual ≤ -56.10 dBm	P
1 GHz - 4 GHz	aimed ≤ -30 dBm	actual ≤ -31.21 dBm	P
Peak at 3.777 GHz hor.	aimed ≤ -30 dBm	actual ≤ -39.19 dBm	P
broadcast bands according to TBR 6	aimed ≤ -47 dBm	actual ≤ -52.05 dBm	P

Measurement uncertainty f<1GHz: + 2.89 dB / -2.98 dB
f>1GHz: + 3.40 dB / -3.75 dB

Channel 5, conducted

TRAFFIC SLOT: 2
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
Wideband Measurements
Range from 300kHz to 12750.00 MHz P

Measurement uncertainty f>1GHz: + 1.40 dB / -1.75 dB

2.3.13 TC 13 Radio receiver sensitivity (4.5.7.1)

At a level of -83 dBm the BER shall be ≤ 10^{-3} .
Measurement uncertainty: + 0.25 dB / -0.27 dB

TRAFFIC SLOT:	0			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	2			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	4			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
Center frequency offset:	0 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
Center frequency offset:	-50 kHz			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P

2.3.14 TC 14 Radio receiver reference bit error ratio (4.5.7.2)

At a level of -73 dBm the BER shall be ≤ 10^{-5}, the FER shall be ≤ $5*10^{-4}$.
Measurement uncertainty: + 0.25 dB / -0.27 dB

TRAFFIC SLOT:	6			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P
TRAFFIC SLOT:	8			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P
TRAFFIC SLOT:	0			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	32.000 Mbit	P

2.3.15 TC 15 Radio receiver interference performance (4.5.7.3)

The BER shall be ≤ 10^{-3} .
Measurement uncertainty: + 0.32 dB / -0.34 dB

TRAFFIC SLOT: 10
TRAFFIC CARRIER: 0
PACKET TYPE: P32+Z

BER:	FER:	kBit:	intf.car:	lev in dBm:	
0.000000	0.000000	320	-3	-33.0	P
0.000000	0.000000	320	-2	-39.0	P
0.000000	0.000000	320	-1	-60.0	P
0.000439	0.000291	1098	0	-84.0	P
0.000036	0.000000	412	1	-60.0	P
0.000000	0.000000	320	2	-39.0	P
0.000000	0.000000	320	3	-33.0	P
0.000000	0.000000	320	4	-33.0	P
0.000000	0.000000	320	5	-33.0	P
0.000000	0.000000	320	6	-33.0	P
0.000000	0.000000	320	7	-33.0	P
0.000000	0.000000	320	8	-33.0	P
0.000000	0.000000	320	9	-33.0	P
0.000000	0.000000	320	10	-33.0	P
0.000000	0.000000	320	11	-33.0	P
0.000000	0.000000	320	12	-33.0	P

TRAFFIC SLOT: 0
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z

BER:	FER:	kBit:	intf.car:	lev in dBm:	
0.000000	0.000000	320	-3	-33.0	P
0.000000	0.000000	320	-2	-33.0	P
0.000000	0.000000	320	-1	-33.0	P
0.000000	0.000000	320	0	-33.0	P
0.000000	0.000000	320	1	-33.0	P
0.000000	0.000000	320	2	-33.0	P
0.000000	0.000000	320	3	-39.0	P
0.000000	0.000000	320	4	-60.0	P
0.000323	0.000682	937	5	-84.0	P
0.000000	0.000000	320	6	-60.0	P
0.000000	0.000000	320	7	-39.0	P
0.000000	0.000000	320	8	-33.0	P
0.000000	0.000000	320	9	-33.0	P
0.000000	0.000000	320	10	-33.0	P
0.000000	0.000000	320	11	-33.0	P
0.000000	0.000000	320	12	-33.0	P

TRAFFIC SLOT: 2
TRAFFIC CARRIER: 9
PACKET TYPE: P32+Z

BER:	FER:	kBit:	intf.car:	lev in dBm:	
0.000000	0.000000	320	-3	-33.0	P
0.000000	0.000000	320	-2	-33.0	P
0.000000	0.000000	320	-1	-33.0	P
0.000000	0.000000	320	0	-33.0	P
0.000000	0.000000	320	1	-33.0	P
0.000000	0.000000	320	2	-33.0	P
0.000000	0.000000	320	3	-33.0	P
0.000000	0.000000	320	4	-33.0	P
0.000000	0.000000	320	5	-33.0	P
0.000000	0.000000	320	6	-33.0	P
0.000000	0.000000	320	7	-39.0	P
0.000000	0.000000	320	8	-60.0	P
0.000312	0.000374	856	9	-84.0	P
0.000000	0.000000	320	10	-60.0	P
0.000000	0.000000	320	11	-39.0	P
0.000000	0.000000	320	12	-33.0	P

2.3.16 TC 16 Radio receiver blocking, case 1 (4.5.7.4)

The BER shall be ≤ 10^{-3} .

Measurement uncertainty: + 0.81 dB / -0.96 dB conducted
Measurement uncertainty: + 3.00 dB / -3.00 dB radiated

TRAFFIC SLOT: 0
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
transmitter level: -80.00 dBm
additional CW interferer level: 0.00 dB
start frequency: 25.00 MHz
stop frequency: 100.00 MHz
step frequency: 1.00 MHz
320 kBit to evaluate — P

TRAFFIC SLOT: 2
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
transmitter level: -80.00 dBm
additional CW interferer level: 0.00 dB
start frequency: 101.00 MHz
stop frequency: 2900.00 MHz
step frequency: 1.00 MHz
320 kBit to evaluate — P

TRAFFIC SLOT: 6
TRAFFIC CARRIER: 5
PACKET TYPE: P32+Z
transmitter level: -80.00 dBm
additional CW interferer level: 0.00 dB
start frequency: 2901.00 MHz
stop frequency: 12750.00 MHz
step frequency: 1.00 MHz
320 kBit to evaluate — P

2.3.17 TC 17 Radio receiver blocking, case 2 (4.5.7.5)

The BER shall be ≤ 10^{-3} .
Measurement uncertainty: + 0.63 dB / -0.71 dB

TRAFFIC SLOT:	4			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	6			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P
TRAFFIC SLOT:	8			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
BER: 0.00000000	FER: 0.000000	evaluated:	320 kbit	P

2.3.18 TC 18 Receiver intermodulation performance (4.5.7.6)

The BER shall be ≤ 10^{-3} .
Measurement uncertainty: + 0.40 dB / -0.43 dB

TRAFFIC SLOT:	10			
TRAFFIC CARRIER:	0			
PACKET TYPE:	P32+Z			
M: 0 A: 2 B: 4				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P
M: 0 A: -2 B: -4				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P
TRAFFIC SLOT:	0			
TRAFFIC CARRIER:	5			
PACKET TYPE:	P32+Z			
M: 5 A: 7 B: 9				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P
M: 5 A: 3 B: 1				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P
TRAFFIC SLOT:	2			
TRAFFIC CARRIER:	9			
PACKET TYPE:	P32+Z			
M: 9 A: 11 B: 13				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P
M: 9 A: 7 B: 5				
BER: 0.000000	FER: 0.0000	eval.data:	320 kbit	P

2.3.19 TC 19 Spurious emissions when the radio endpoint has no allocated transmit ch. (4.5.7.7)

only recommended for portable parts

2.3.20 TC 20 Synchronisation port (4.5.8)

No test

2.3.21 TC 21 Equipment identity verification (4.5.9)

Statement of the applicant“

2.3.22 TC 22 Efficient use of radio spectrum (4.5.10)

Statement of the applicant“

2.3.23 TC23 WRS (4.5.11)

No test

2.3.24 TC24 PP to PP communication (4.5.12)

No test

2.3.25 TC25 Direct communication (4.5.13)

No test

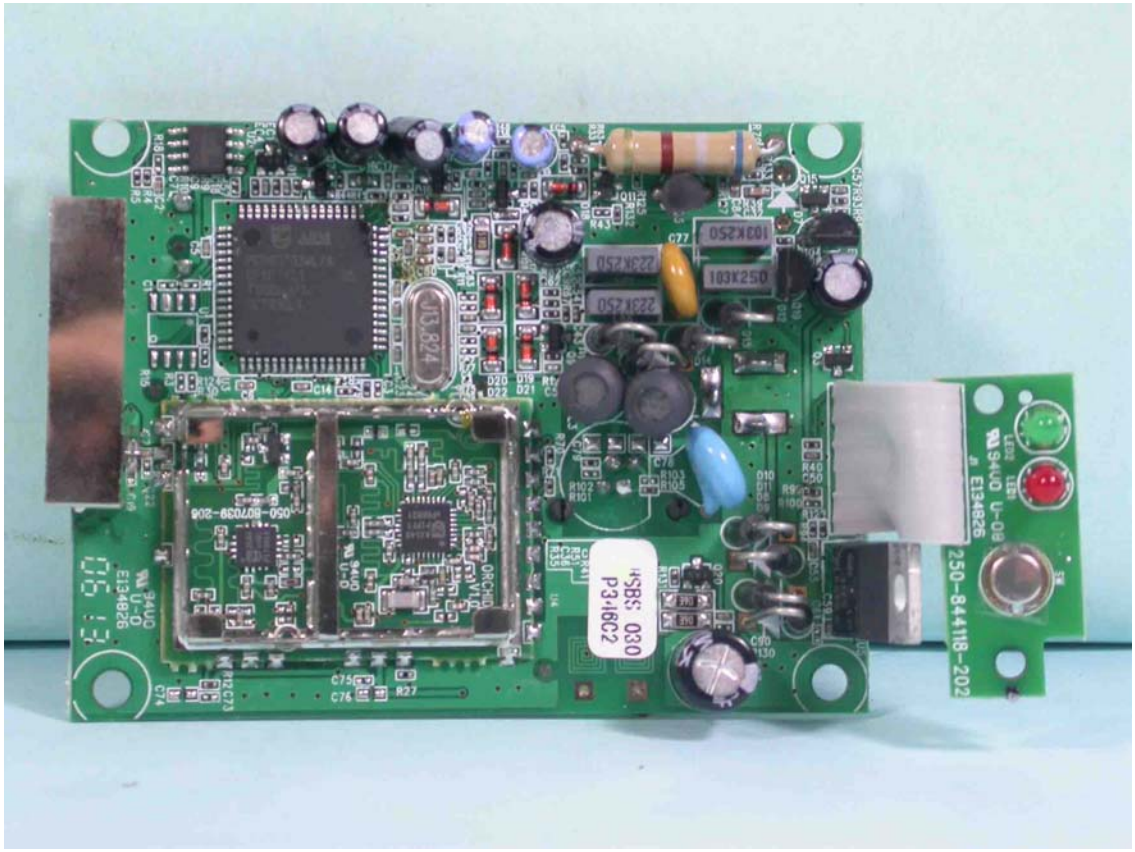
2.3.26 TC26 Higher level modulation (4.5.14)

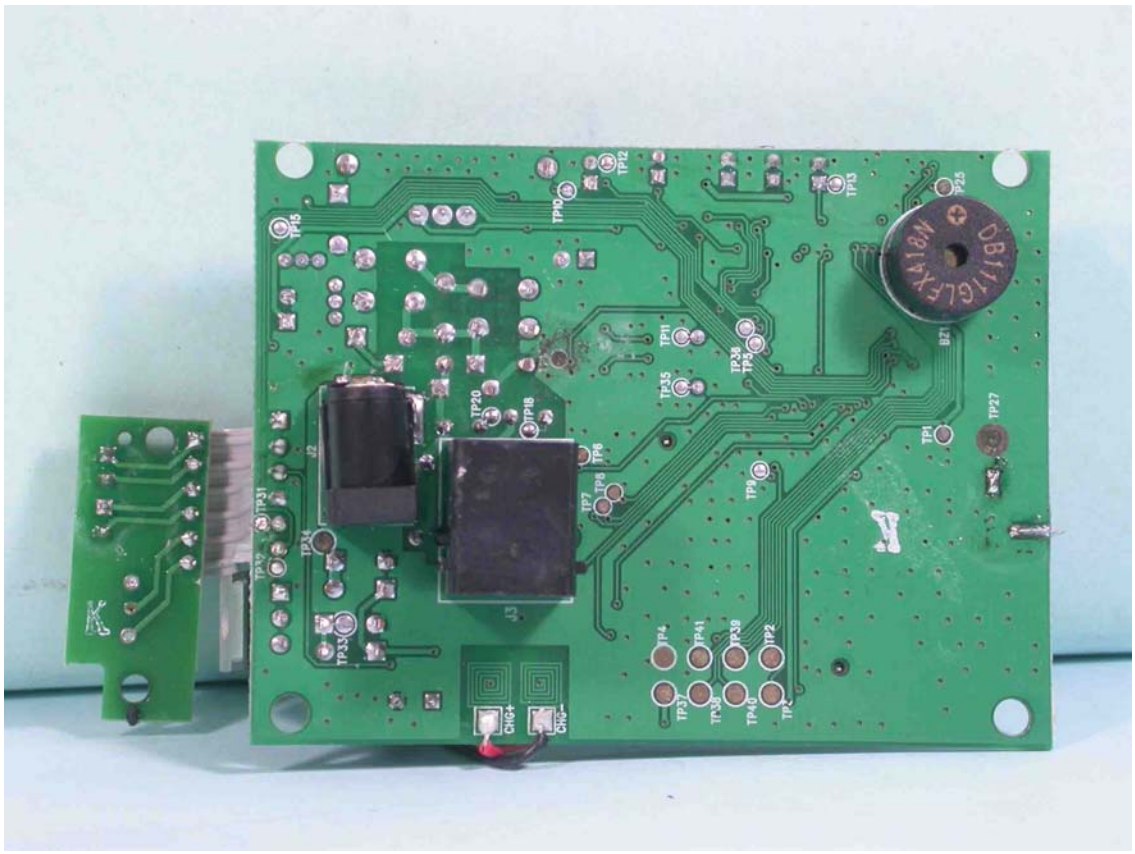
No test

4 Appendix Photo of the Test Candidate (exterior)

Photo of the Test Candidate (exterior)

Photo of the Test Candidate (interior)





MANUFACTURER DECLARATION

AZTECH SYSTEMS LTD

31 Ubi Road 1, Aztech Building, Singapore

(Name / Address)

declare for the Digital Enhanced Cordless Telecommunications (DECT) telephone system specified as

H315-S1 / HS315-S1

(Model Number)

For the portable radio termination (PT):

The first PT transmission on the newly selected channel is made in accordance with the scan sequence of the addressed RFP.

To continue transmitting on the newly selected physical channel the PT transmissions within 2 frames of the first PT transmission.

For the fixed radio termination (FT):

The RFP do not transmit on more than 2 physical channels for which complementary physical channels do not exist.

A complementary physical channel is a physical channel between the same two radio endpoints which occurs 5 ms before or after the physical channel to which is complementary.

When an FT is addressing a specific PT then the first FT transmission is made in accordance with the scan sequence of the addressed PT receiver.

To continue transmitting on the selected physical channel the FT receives and indication that the PT is receiving the FT transmissions within 2 frames of the first FT transmission.

For the channel release:

A REP cease transmission on all physical channels if it has not received a valid indication of the other radio endpoint's identity within 10 seconds of the receipt of the last indication.

A REP which transmits on both the physical channel and complementary physical channel cease to transmit on the channels if either:

- The receiving endpoint indicate to the transmitting endpoint that transmission cease on both these physical channels; or
- The transmitting FT or PT is no longer attempting to receive at least one physical channe from the FT or PT to which it is transmitting.

In General:

No more than two physical channels based on the half slot format are sent within the same fram to the same REP;

The EUT is capable of communicating on all 10 DECT RF channels

12-May-06

(Date)

AZTECH SYSTEMS LTD

(Printed full name)

AZTECH SYSTEMS LTD
31 UBI ROAD 1, AZTECH BUILDING
SINGAPORE 408694
TEL: (65) 7417211 FAX: (65) 7413073
TLX: RS-36550 AZTECH

(Authorized signature and company chop)

BABT

MANUFACTURER DECLARATION

AZTECH SYSTEMS LTD

31 Ubi Road 1,Aztech Building, Singapore

(Name / Address)

declares for the Digital Enhanced Cordless Telecommunications (DECT) telephone system specified as

H315-S1 / HS315-S1

(Model Number)

The Portable Part (PP):

It is not possible for the user to alter the IPEI using any normally accessible procedure. We supply, in addition to the equipment, sufficient means in the equipment with instructions in the documentation to permit validation of the Equipment Manufacturer's Code and verification of the existence of the Portable equipment Serial Number (PSN) code in the equipment.

The Fixed Part (FP):

DECT FPs which do not transmit the TA escape message transmits the NT message as defined in EN 300 175-3 [3] at least once every 10 seconds on all active physical channels;
These NT identity messages are transmitted with the appropriate A-field header code as defined in EN 300 175-3[3] and the NT message contains an ETSI distributed code as defined in EN 300 175-6[6].

AZTECH SYSTEMS LTD
31 UBI ROAD 1, AZTECH BUILDING
SINGAPORE 408694
TEL: (65) 7417211 FAX: (65) 7418678
TLX: RS 36560 AZTECH

(Date) 12-May-06

AZTECH SYSTEMS LTD

(Printed full Name)

(Authorized Signature & Company Chop)

BABT