

Melvin

From: melvin [melvin@pctestlab.com]
Sent: Monday, June 17, 2002 2:21 PM
To: FCC - Martin Perrine
Cc: Randy Ortanez; PCTEST - Al Cirwithian
Subject: PCTEST SPEAG PROBE CALIBRATION S/N: 1560

Dear Martin,

As requested following is a list of applications in which the probe calibration was performed by PCTEST. This calibration was limited to 835MHz and 1900 MHz. The conversion factors obtained were the same as those obtained from the original probe calibration performed by Speag using the probe calibration technique is detailed in P1528. This technique has been described in the literature for several years.

The probe calibration conversion factors obtained by PCTEST, correlate well with the calibration data provided by the probe manufacturer Speag. Based on this correlation, we believe that all the data obtained by the system with the PCTEST provided probe calibrations are valid and accurate.

Currently a new probe SN: 1677, that was on back order for quite some time, calibrated by Speag on April 10, 2002, has been received. PCTEST currently plans to use this probe on an ongoing basis for filings tested with the Speag SAR measurement system.

Per your request, listed below are the applications filed in which PCTEST provided the probe calibration conversion factors for probe S/N: 1560. This includes granted and pending applications. Also attached is the new calibration document for S/N: 1677 for your reference.

PCTEST is requesting that the Commission to not make this letter available to the public. If this information or any portion thereof needs to be placed in the public record for any of the listed filings, PCTEST will provide a separate document listing only the specific FCC ID for which it is needed.

| PCTEST SPEAG PROBE CALIBRATION S/N: 1560 | | | |
|---|----------------|-------------------|-----------------|
| Company Name | FCC ID: | Grant Date | File No. |
| LGE | BEJBD4000 | 5/24/02 | TC732033 |
| | | | |



MASTER DASY
PROBE CALIBRATION ...

If you have any further questions, please do not hesitate to contact us.

Best Regards,
Melvin Enderes
Project Coordinator

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Data comparison between Speag probe calibration and PCTEST probe calibration.

| SAMPLE Number | Band | Probe SN:1560 SAR | Probe SN:1677 SAR | Conducted POWER | Channel | comments |
|--|----------|-------------------|-------------------|-----------------|------------|----------|
| 1 Antenna in | 1 | 1.35 | 1.32 | 25.5 | 383 | |
| 1 Antenna out | 1 | 1.47 | 1.48 | 25.5 | 383 | |
| 2 Antenna in | 1 | 1.2 | 1.24 | 26.5 | 799 | |
| 2 Antenna out | 1 | 1.22 | 1.25 | 26.5 | 799 | |
| 3 Antenna in | 1 | 1.18 | 1.20 | 26.0 | 383 | |
| 3 Antenna out | 1 | .992 | 1.00 | 26.0 | 383 | |
| 4 Antenna in | 2 | 1.38 | 1.30 | 24.5 | 600 | |
| 4 Antenna out | 2 | .456 | .410 | 24.5 | 600 | |
| 5 Antenna in | 1 | 1.15 | 1.12 | 26.0 | 991 | |
| 5 Antenna out | 1 | 1.48 | 1.43 | 26.0 | 991 | |
| 5 Antenna in | 2 | 1.31 | 1.26 | 24.5 | 0025 | |
| 5 Antenna out | 2 | .240 | .236 | 24.5 | 0025 | |
| 6 Antenna in | 1 | .639 | .641 | 26.5 | 383 | |
| 6 Antenna out | 1 | .960 | .956 | 26.5 | 383 | |
| 6 Antenna in | 1 | .822 | .820 | 26.5 | 383 | |
| 6 Antenna out | 1 | 1.27 | 1.24 | 26.5 | 383 | |
| 7 Antenna in | 2 | 1.30 | 1.33 | 24.0 | 600 | |
| 7 Antenna out | 2 | .867 | .870 | 24.0 | 600 | |
| notes | | | | | | |
| Band 1 | 800MHz | | | | | |
| Band 2 | PCS | | | | | |
| <i>Power before is the same as power after</i> | | | | | | |