From: Shigeru Kinoshita To: Mike Kuo Cc: ?? ??; ?? ??; ?? ? Subject: Re: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524 Dear Mr.Mike Kuo Thank you for good advice and your suggetions. Please confirmed the three Attaced files. 1.KL80020490S.pdf:Revised Test Report of part24 2.AntennaConductedPlot.pdf: Harmonics frequency plot in Antenna Conducted Emission 3.Additional Report.pdf: Spurious frequency plot in Antenna Conducted Emission Question #6: Please confirm page 5 of 46 Question #7: Please confirm page 30 of 46 Add items : Spectrum Anlyzer Setting RBW, VBW etc Question #9: Please confirm AntennaConductedPlot.pdf & Additional Report.pdf Best Regards Shigeru Kinoshita ----- Original Message -----From: "Mike Kuo" <MKUO@CCSEMC.com> To: "'Shigeru Kinoshita'" Subject: RE: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524 > Hi Shigeru: > > Question #6 : if the power was measured with power meter, please change the > revised test report to indicate the power was measured with power meter. > In the revised test report, it indicated the spectrum analyzer was used.) > > Best Regards > > Mike Kuo > > ----Original Message-----> From: Shigeru Kinoshita > To: Mike Kuo > Subject: Re: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524 > > > Dear Mike Kuo > Thr JQA ansewrs for Question #6,#7,#9.of Part24 Test Report. > > Question #6: Transmitting Power ( TP ): Page Page 5 of 46 of Part 24 test > > report. The description indicates that spectrum analyzer was used but the > > diagram indicates the power meter. Please explain. > >

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> > CCS : Received revised test report. Per the test report, Transmitting
> power
> > was measured with Spectrum Analyzer. Please provide spectrum plots with
> > instrument setting indicated.
> >
> JQA: In the JQA, The transmitter Power is measurd with a power Meter, not
> used the Spectrum Analyzer.
> > Question #7: Transmitting Power ( EIRP ) : Page 30 of 46. Please
provide
> > the correction factor used to calculate the EIRP. Please indicate the
> > spectrum analyzer reading, SG reading, the antenna gain and cable lost.
> > Please also provide the instrument setting of spectrum analyzer used
> during
> > the tests.
> >
> > CCS: Per revised test report, all information have been included except
> for
> > the instrument setting. Please provide RBW and VBW used during EIRP
> > measurement.
> >
> JOA :
   Please refer to the attached file 'Description of EIRP.pdf', revised
>
> paper(draft) of Page30.
>
>
> > Question #9: Please provide antenna conducted spurious emission plots.
> >
> > CCS : No spectrum plots are included in the revised test report, please
> > provide the plots.
> >
> JQA: The antenna conducted spurious emisiion test is re-testing now.
>
> Best Regards
>
> JAPAN QUALITY ASSURANCE ORGANIZATION (JQA)
> KITA-KANSAI TESTING CENTER
> TESTING DEPT. EMC DIV.
> Shigeru Kinoshita
> e-mail: kinoshita-shigeru@jqa.jp
> ----- Original Message -----
> From: "Mike Kuo" <MKUO@CCSEMC.com>
> To: "'Y.Uchida'"
> Subject: FW: Sharp Corporation, FCC ID:APYHRO00027, AN03T2524
>
>
> > Hi Mr. Uchida:
> >
> > Please only address question #6, #7, and #9. All other replies to rest
of
> > questions are O.K.
> >
> > Best Regards
> >
> > Mike Kuo
> >
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> > ----Original Message-----> > From: CERTADM > > Sent: Friday, January 17, 2003 4:04 PM > > To: 'mkuo@ccsemc.com' > > Subject: Sharp Corporation, FCC ID:APYHR000027, AN03T2524 > > > > > > Notice content > > ------> > This notice is to recap the previous questions asked and the replies you > > have provided so far: > > > > Administrative review portion: > > > > Question #1: Please provide EUT's Internal and External photos. > > > > CCS: Files received. No more question on this item. > > > > Question #2: Please provide EUT's Tune up procedure. Tune up procedure > > normally is confidential document to the manufacturer. If tune up > procedure > > is considered as confidential document, please also modify the request for > > confidentiality letter to include this document. > > > > CCS: Files received. Since there is no revised confidentiality letter > > provided, tune up procedure will not be granted as confidential document. > > > > Question #3: Please provide theory of operation to address the > requirements > > listed in section 2.1033( c ) (6)(8)(10)(13) of FCC rules. Theory of > > operation is normally considered as confidential document to the > > manufacturer. If request for confidential is desired, please modify > request > > for confidentiality letter to include this document. > > > > CCS : File received. Since there is no revised confidentiality letter > > provided, theory of operation will not be granted as confidential > document. > > > > Question #4: User Manual file titled ' GS-200-Safety ". In this 7 pages > > user manual, it mentioned RF Exposure wa rning statement. However, > > there is no place mentioned the body worn instruction to the end user. > > Please provide it. In addition, the Exposure to Radio Wave section, it > > listed some general guideline to the end user but with some blank > > information. If measured SAR value is not desired to list in the user > > manual, please modify this section. ( FCC does not require the > manufacturer > > to list the highest measured head and body worn SAR value in the user > manual > > ). > > > > CCS: Files received. No more question on this item. > > > > Question #5: FCC Part 24 report has security protection. Please provide > test

> > setup photo file. > > > > CCS: File received. No more question on this item. > > > > FCC Part 24 technical portion: > > > > > > Question #6: Transmitting Power ( TP ): Page Page 5 of 46 of Part 24 test > > report. The description indicates that spectrum analyzer was used but the > > diagram indicates the power meter. Please explain. > > > > CCS : Received revised test report. Per the test report, Transmitting > power > > was measured with Spectrum Analyzer. Please provide spectrum plots with > > instrument setting indicated. > > > > Question #7: Transmitting Power ( EIRP ) : Page 30 of 46. Please provide > > the correction factor used to calculate the EIRP. Please indicate the > > spectrum analyzer reading, SG reading, the antenna gain and cable lost. > > Please also provide the instrument setting of spectrum analyzer used > during > > the tests. > > > > CCS: Per revised test report, all information have been included except > for > > the instrument setting. Please provide RBW and VBW used during EIRP > > measurement. > > > > Question #8 Unwanted radiation measurement, page 31 of 46. Based upon the > > measurement procedures described in page 10 of 46 of test report, the > > unwanted radiation measurement did not use substitution method. Please > > note: for licensed radio, the radiated spurious emission must be measured > > with substitution method, it is not a field strength measurement. Please > > redo the tests and provide additional test data. > > > > CCS: Per revised test report, radiated spurious emission was measured > again > > with substitution method. No more question on this item. > > > > Question #9: Please provide antenna conducted spurious emission plots. > > > > CCS : No spectrum plots are included in the revised test report, please > > provide the plots. > > > > SAR portion: > > > > Question #10: Please provide a duty cycle plot to verify the duty cycle is > > 11.7%. > > > > CCS : SAR test report has been resubmitted. Duty cycle plot is included

> and > > verified. No more question on this item. > > Question #11: What is the liquid depth used during the test ? > > > > CCS: SAR test report has been resubmitted. Liquid depth is 15.1cm per the > > test report. No more question on this item. > > > > Question #12: Please explain the reason to use the conversion factor of > 5.4 > > for head. The probe calibration file indicates the conversion factor for > > 1800MHz/head should be 5.5. > > > > CCS: Revised SAR test report has been resubmitted. Conversion factor used > > agree with probe calibration file. No more question on this item. > > > > Question #13: The conversion factor for body worn SAR and head SAR are > > identical. For body worn SAR tests, body worn conversion factor shall be > > used. Please provide body worn SAR plot with body conversion factor and > > provide the probe calibration file. > > > > CCS :Revised SAR test report has been resubmitted. Conversion factor for > > body has been used and verified per probe calibration file. No more > > question on this item. > > > > Question #14: Please explain why the conducted output power measured > during > > SAR tests are lower than those readings reported in FCC Part 24 report. > Per > > FCC instruction, the conducted output power used during SAR test shall be > > greater or equal to those number in the EMC report. > > > > CCS : The max. conducted output power reported in the revised Sar report > is > > 29.58dBm Vs Part 24 test report :29.69dBm. The tune up procedure > indicates > > 28.8dBm. The power used during SAR is higher than the max. power in the > > tune up procedure but it is within the power tolerance. No more question > on > > this item. > > > > Question #15: Please explain the reason that the output power used for > GPRS > > modulation is lower the GSM modulation but the duty cycle is the same. > > > > CCS: The output power listed in the revised SAR test report, the output > > power are in agreement. No more question on this item. > > > > Question #16: Please provide detail description on how the modulation and

> > power were used and selected. Is it equipped with test mode or base > station > > simulator was used ? > > > > CCS: Test mode and modulation description has been documented in the > revised > > test report, no more question on this item. > > > > Best Regards > > > > Mike Kuo > > The items indicated above must be submitted before processing can continue > > on the above referenced application. Failure to provide the requested > > information within 60 days of the original e-mail date may result in > > application dismissal and forfeiture of the filing fee. Also, please note > > that partial responses increase processing time and should not be > submitted. > > Any questions about the content of this correspondence should be directed > to > > the e-mail address listed below the name of the sender.