Jennifer Sanchez

From:	Sabina Ruiz Castillo [srcastillo@at4wireless.com]
Sent:	Tuesday, November 24, 2009 8:44 AM
To:	Jennifer Sanchez
Cc:	Jenn Warnell; gbriseno@at4wireless.com
Subject:	RE: 81995 AT4 Wireless - TCB request for information for Elektrobit, FCC ID: OBW120897
Attachments:	Starcomm Commercial Phone Product Description.pdf; Application form_USA_25_v1.0.pdf; starcomm brochure.pdf; Starcomm_PICS.xls; Application form_USA_2224_v1.0.pdf; UG-Final_version1.0.pdf; SC_Type_Label_Artwork_1.4.pdf; 29742RET005_v3s.pdf; 29742ret004_v2s.pdf

Dear Jennifer,

Please find below my comments:

FCC Part 25

1- Please note that it has been corrected in the new report. Find it attached.
2- You can find the information in the follow link:
http://licensing.fcc.gov/cgi-bin/ws.exe/prod/ib/forms/reports/swr031b.hts?q_set=V_SITE_ANTENNA_FREQ.file_numberC/File+Number/%3D/SESLIC2006120602100&prepare=&column=V_SITE_ANTENNA_FREQ.file_numberC/File+Numb

Anyway, as you may check in the point 3, the equipment doesn't support ATC band.

3- The equipment doesn't support ATC. Please, find attached a commercial product description. Refer to page 3 : "Support for ATC band removed".
4- I would like that you clarify me the part in the FCC rules where is specified that the equipment must have this register. This register seems not to be in relation with FCC certification. There aren't associated registers to TerreStar, or at least I didn't find it. Anyway, to proceed with the register for an equipment is necessary:

Terminal Manufacturers implementing the GMPCS-MoU Arrangements agree to :

- Test terminals in conformity with available ITU Recommendations (e.g. ITU-R Rec. M.1343), national and regional standards, including health and safety
- Submit GMPCS terminals for type approval to at least one Administration or Competent Authority
- Submit the type approval information to the ITU → *If it is necessary submit the type approval information and for getting the approval is necessary the register, there is something that we don't understand. So is it mandatory register the equipment in the ITU GMPCS – MoU Registry?*
5- Please, find attached the modified form for Part 25.
6- Please find attached the correct marketing brochure in that you can see the correct uplink frequency bands.
7- We didn't perform testing with external antenna for Part 25. Anyway, despite of an antenna connector is included in the equipment won't be use with an external antenna in this equipment version. The customer has added the follow statement in the user manual (please find attached the modified user manual) showing that is intended for use only with internal antenna.

In USA territories, this equipment is intended for use only with internal antenna. The use of the device with external antennas is forbidden except for those antennas included in the FCC filing. For pre-approved external antennas please visit FCC website and search by the FCC ID of the device:

https://fjallfoss.fcc.gov/oetcf/eas/reports/GenericSearch.cfm

FCC 22/24

1- The equipment doesn't support HSUPA. Please, find the attached PICS.

A.18a/18	Support of E-DPDCH	Rel-6	yes, no		pc_HSUPA

2- Please find attached the modified form for Part 22/24.

FCC 15B

1- Testing was performed according ANSI C63.4:2003. The modified test report for this part documenting compliance in accordance with the Measurement Procedures of ANSI C63.4:2003 will be sent you tomorrow in our morning, I mean, when you arrived at the office, you will have this test report.
2- The representative computer system setup per ANSI C63.4:2003 will be included in the modified test report for Part 15B.

SAR specific items
1- The actual SAR samples does not have accessible antenna connectors for conducted measurements, so the conducted average output power was measured using another identical

sample provided by the manufacturer with auxiliary external connectors that makes the measurements representative and applicable for all the tested samples. Anyway, you can find a note in page 20.

2- In the test reports appears the customer declaration regarding this equipment doesn't admit voice mode over only-data transmission (page 20).

3- Regarding the below comment about SAR:

The SAR report describes the possible simultaneous transmission requirements. It is indicated that only Bluetooth transmitter will transmit simultaneously with the Satellite or GSM/WCDMA but does not address the possibility of WLAN with the other transmitters. Please provide a matrix of each mode indicating which ones can transmit simultaneously.

In the modified test report of SAR you can find the matrix in page 21.

Label
Finally, regarding the label, please replace the label that I sent you previously with the new attached one.

I'll wait for your comments.

Best regards,

Sabina Ruiz Castillo
Dept. Laboratories

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De: Jennifer Sanchez [mailto:jsanchez@metlabs.com]
Enviado el: lunes, 23 de noviembre de 2009 18:41
Para: Sabina Ruiz Castillo
CC: Jennifer Sanchez; Jenn Warnell
Asunto: 81995 AT4 Wireless - TCB request for information for Elektrobit, FCC ID: OBW120897
Importancia: Alta

Hi Sabina,

Please find attached the reviewer's comments regarding the FCC application for Elektrobit, FCC ID: OBW120897.

If you have any questions or concerns, please let me know.

Thanks!
J. Sanchez
TCB Administrator
MET Laboratories, Santa Clara CA
408-207-4785 Office
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11/24/2009

From: Sabina Ruiz Castillo [mailto:srcastillo@at4wireless.com]
Sent: Thursday, November 26, 2009 4:13 AM
To: Jennifer Sanchez
Cc: Jenn Warnell; Mª Gema Briseño Pascual
Subject: RE: 81995 AT4 Wireless - TCB request for information for Elektrobit, FCC ID: OBW120897

Dear Jennifer,

Regarding the concerns about operational description, following statement is included in this document (page 11):

> In addition to standard WCDMA bands Genus also includes HW components for ATC variant of WCDMA band I. ATC variant is functioning in S-band frequency, WCDMA band I components have been replaced with suitable ones for the frequency band.
> ATC functionality is not functional in SW and has been disabled by SW and it can not be enabled anyhow without extensive SW updates and modifications done by EB.
> *ATC functionality is not described in this document because it is not used in Genus product.*

The intention for this chapter is to clarify the existing optional ATC HW components in product that also appear in product schematics and part list.

The optional ATC functionality is totally dependant of SW and the functionality has been disabled in SW. It is required to build totally new ATC SW variant. This option has been prevented internally in EB so that this kind of SW build can not be created accidentally.

On the other hand, let me share with you the urgent of this project. I can imagine that the reviewer is hard working but we really need the final result of the revision by next Monday in order to get the FCC grant for Monday or at least Tuesday. This project is in a hurry.

Best regards,

Sabina Ruiz Castillo
Dept. Laboratories

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