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Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

SUBJECT: FCC Application for FCC ID: PU5-TP00082ASI

To Whom It May Concern:

We hereby attest that, LTE release 10 limitations and support restrictions of FCC ID:
PU5-TP00082ASI are:

No.	Item	
1	FCC ID	PU5-TP00082ASI
2)a)	The LTE release and version numbers of the 3GPP documents used to implement the specific device(s).	LTE Release 11/Category 3
2)b)	The associated 3GPP release and version numbers required for power measurements and RF test setup conditions.	LTE Cat 6. 3GPP TS36.101 and TS36.521" WCDMA : "3GPP TS25.101 and TS34.121" . HSDPA Cat 24 HSUPA Cat 6
3)	Carrier aggregation supported a) uplink or downlink b) inter-band or intra-band? c) number of aggregated carriers supported? d) channel bandwidth configuration, CA Bandwidth Classes?	a) downlink only b) Carrier aggregation: ·DL LTE-FDD 20 MHz intraband non-contiguous ·40 MHz interband ·DL LTE-TDD

	<p>e) what restrictions are required for certain channel combination</p> <p>f) RB combination supported by CA configurations</p>	<p>·40 MHz intraband contiguous and non-contiguous</p> <p>·40 MHz interband</p> <p>c)Up to maximum of 2 DL carriers paired with single UL carrier</p> <p>d) All bandwidth combinations called out in 3GPP spec</p> <p>e) none</p> <p>f) Max aggregate bandwidth supported is 40 MHz.</p>
3)b)	For downlink CA only device, set EUT in downlink CA mode and confirm uplink TX power is not >1/4dB higher than that without CA active (and still within tune-up tolerance)	Uplink Tx power would not be different w/ or w/o CA.
3)c)	A clear description of the test equipment and setup to support power and SAR measurement.	The description can be found in the SAR test report of the application filing.
3)d)	Any other restriction or limitations associated with the carrier aggregation implementation.	None
4	Enhanced SC-FDMA supported in the uplink? If yes, please provide details of the implementation below.	n/a
4)a)	Decoupling of control and data transmissions to enable simultaneous transmission of PUCCH and PUSCH.	n/a
4)b)	Non-contiguous data transmission with clustered SC-FDMA to enable non-contiguous subcarriers in PUSCH transmissions	n/a
4)c)	Dynamic switching among these schemes	n/a
4)d)	When a partially allocated PUSCH, a cluster of partially allocated PUSCH or a fully allocated PUSCH is transmitted simultaneously either with or without PUCCH, peak to average power ratio of the signal can increase substantially above Rel. 8 implementations, which can raise SAR testing concerns	n/a
5	Multiple transmit antennas are used to support uplink MIMO or other transmit	n/a

	diversity	
6	UE category	UE Category 6 (Doc# 3GPP TS 27.007)
7	While it is highly unexpected and until more can be learned, if it is suspected that the hardware or firmware associated with any LTE Rel. 10 features may introduce SAR influences for a product; for example, CoMP, HetNet, Relay, SON, cross carrier scheduling, eICIC, enhanced downlink MIMO, MBMS, M2M/D2D support etc., the potential of SAR concerns and any hardware, firmware or other limitations or restrictions applied to alleviate such concerns must be explained.	No significant SAR influence was discovered with respect to the hardware or firmware associated with LTE Rel. 10 features.
8	SVLTE (simultaneous voice call and LTE data transmission)	n/a
9	other transmitters contained in this device	802.11 abgn Bluetooth v3.0+EDR, v4.1+LE

Sincerely yours,



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