

Date: Feb. 3, 23

Federal Communications Commission  
 Office of Engineering and Technology  
 Equipment Authorization Division  
 7345 Oakland Mills Road  
 Columbia, Maryland 21046

Subject: FCC ID: 2ACCJH174 (Model: T609J)

To Whom It May Concern,

T609J is a variant product of T609DL, The Major change filed under this application is as below, otherwise are identical.

● **SOFTWARE MODIFICATIONS:**

- Protocol Stack changes: No
- MMS/STK/USAT/USIM changes: No
- DM/SUPL/VT/FUMO/SWP/HCI: Yes ,not support DM/FUMO
- Other changes detailed:
  1. open LTE B1 & B17 & B29 & B38 through software
  2. open NR B78,B38,B2,B5,B7 through software
  1. software disable 2G Bands,LTE B48 and 5GNR n30.
  3. change BT power parameter due to different customer's target requirement, BT hardware portion is consistent with T609DL

Model	Frequency Band	CA Bands
T609DL	2G: 850/900/1800/1900 3G: B1/2/4/5/8 4G: B2/3/4/5/7/12/13/20/25/26/28/41HPUE/48/66/71  5G SA : n25(40MHz)/41(100MHz)HPUE/66/71/77(100MHz)HPUE 5G NSA: n25(40MHz)/41(100MHz)HPUE/66/71/77(100MHz)HPUE/2/5/30	Bands Details as attachd "Bands list"
T609J	2G: 850/900/1800/1900 (software disable 2G Bands) 3G: B1/2/4/5 4G: B1(add)/2/3/4/5/7/12/13/17(add)/20/25/26/29(add)/38(add)/41//66/71  5G SA: n2(add)/5(add)/7(add)/25/41/66/71/77/78(add) /n38(add) 5G NSA: n2/5/25/41/66/71/77/78(add)	Bands Details as attachd "Bands list"

● **HARDWARE MODIFICATIONS:**

- Band changes: YES,
  1. Change another duplexer to support LTE B7 and n7 meanwhile.(original T609DL duplexer only can support LTE B7, T609J new duplexer can support LTE B7 and n7)
  2. add a new RX SAW to support B29
- PCB Layout changes: No
- Main RF components changes:



	Antenna	AP	Base band AP	Base band Modem	Power Amplifier	Tx SAW Filter	Rx SAW Filter	Duplexer	ASM
NSA&SA n25	No	No	No	No	No	No	No	No	No
NSA&SA n2	No	No	No	No	No	No	No	No	No
NSA&SA n5	No	No	No	No	No	No	No	No	No
NSA&SA n7 (add)	No	No	No	No	No	No	No	Yes	No
NSA&SA n38 (add)	No	No	No	No	No	No	No	No	No
NSA&SA n41	No	No	No	No	No	No	No	No	No
NSA&SA n66	No	No	No	No	No	No	No	No	No
NSA&SA n71	No	No	No	No	No	No	No	No	No
NSA&SA n77	No	No	No	No	No	No	No	No	No
NSA&SA n78 (add)	No	No	No	No	No	No	No	No	No

	Antenna	Baseband AP	Baseband Modem	Transceiver	Power Amplifier	Balun	Band pass filter	Duplexer
Bluetooth	No	No	No	No	No	No	No	No
Wi-Fi	No	No	No	No	No	No	No	No
NFC	Yes	NA	NA	NA	NA	NA	NA	NA

- FM changes: No
- LCD/ Speaker/ Camera/ Vibrator changes: (indicated the changed items if yes) No
- Other changes detailed:
  1. Battery changed to different manufacture model, but the technical parameter is same.
  2. Add NFC chip and peripheral related RLC(resistance capacitance inductance) to support NFC function, overall PCBA layout is no change.
  3. Add extra NFC Antenna to support NFC function, others separate antenna is consistent with original

● **MECHANICAL MODIFICATIONS:**

- Use new metal front/back cover or keypad: No
- Mechanical shell changes:
  - Whole size of EUT: No
  - Distance of Ear reference point to bottom of handset: No
  - Other trinkets to change the surface of handset: No
- Other changes detailed: No

For the above, we performed test as below, other test result coming from the initial model. For details, please refer to the relevant test reports.

Items	Band	Comment
<b>Adding charger, Headset, Battery</b>		
FCC certification part15B testing	/	share basic model results
<b>UMTS part</b>		
UMTS mobile phone FCC certification SAR testing	850/1900/1700	all TCs
UMTS mobile phone FCC certification part22/24 testing	850/1900/1700	Conducted output power and ERP TCs; RSE spot check;
<b>LTE part</b>		
LTE mobile phone FCC certification SAR testing acc to Oet65	FDD5/7/12/13/25/26/66/71/TDD41/41HPUE	all TCs
LTE mobile phone FCC certification part22/24/27 testing	FDD5/7/12/13/25/26/66/71/TDD41	Conducted output power and ERP TCs; RSE spot check;
LTE mobile phone FCC certification part22/24/27 testing	FDD2/4/17/38	No test, covered by FDD25/66/12/41
LTE mobile phone FCC certification SAR testing acc to Oet65	FDD2/4/17/38	No test, covered by FDD25/66/12/41
<b>NR part</b>		
NR SA/NSA mobile phone FCC certification part22/24/27/90 testing per band	25/5/7/66/71/77/78/41	n5/7/78: all TCs; other bands: Conducted output power and ERP TCs, RSE spot check;
NR SA/NSA mobile phone FCC certification SAR testing acc to Oet65 per band	25/5/7/66/71/77/78/41	all TCs,
NR SA/NSA mobile phone FCC certification part22/24/27/90 testing per band	2/38	no test, covered by n25/41;

NR SA/NSA mobile phone FCC certification SAR testing acc to Oet65 per band	2/38	no test, covered by n25/41;
<b>BT part</b>		
BT 5.0 FCC certification part15C testing	/	All TCs,
<b>WiFi part</b>		
WiFi 802.11b/g/n 2.4G (BW20&40MHz) FCC certification part15C testing	/	Conducted output power , all radiated TCs
WiFi 2.4G FCC certification SAR testing	/	All TCs
WiFi 802.11a/n/ac 5G UNII-1&2A&2C&3(BW20&40&80MHz) FCC certification part15E testing	/	Conducted output power , all radiated TCs
WiFi 5G FCC certification SAR testing	/	All TCs
WiFi 802.11a/n/ac 5G UNII-1&2A&2C&3(BW20&40&80MHz) DFS FCC certification part15E testing	/	share basic model results
<b>USB part</b>		
FCC certification part15B testing	/	share basic model results
<b>HAC part</b>		
LTE RF –Emission VoLTE testing	TDD41/TDD41HPUE	all TCs
LTE RF –Emission 5G Wifi calling testing per channel	/	No test
HAC T-coil 2.4G Wifi testing OTT	/	all TCs
HAC T-coil 5G Wifi testing OTT	/	all TCs
LTE T-coil 5G Wifi calling testing per channel	4 channel	all TCs
HAC T-coil UMTS testing OTT	/	all TCs
LTE RF –Emission 2.4G Wifi calling testing	/	all TCs
HAC T-coil 5G testing OTT	/	all TCs
LTE T-coil VoLTE testing	FDD7/12/13/25/26/41/41H PUE/66/71	All TCs
HAC UMTS T-coil testing	850/1900/1700	all TCs
HAC CDMA RF emission testing	/	no test, for NR

HAC UMTS RF emission testing	850/1900/1700	No test
HAC LTE T-coil LTE testing OTT	/	all TCs
HAC CDMA T-coil testing	/	no test, for NR
LTE T-coil 2.4G Wifi calling testing	/	all TCs
<b>NFC part</b>		
NFC FCC Part15 testing	/	all TCs

Thank you.

Sincerely,

Annie Jiang

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