



Spot Check Evaluation

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1. Introduction Section

The original model (FCC ID: IHDT56XE1) and the variant model (FCC ID: IHDT56XE2) has identical PCB layout, antenna, SW implementation for GSM/WCDMA/LTE Based on their similarity, Part 22.24.27, (equipment class: PCE) test data issued test data of IHDT56XE2 references the test data of IHDT56XE1

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: IHDT56XE2).



2. Difference Section

The original model (FCC ID: IHDT56XE1) and the variant model (FCC ID: IHDT56XE2) has identical PCB layout, antenna, SW implementation for GSM/WCDMA/LTE. The details of similarity and difference can be found in the Product Equality Declaration.

Cellular transmitter RF components are different in IHDT56XE2, to support capability for different cellular bands.

The product specification is outlined in the following table:

FCC ID		IHDT56XE1	IHDT56XE2
Wireless Tech	Mode	Frequency (MHz)	
GSM	GSM Voice GPRS (GMSK) EDGE (8PSK)	Multi-Slot Class 12 DTM: No	850/1900
UMTS	AMR/RCM12.2Kbps HSDPA/HSUPA/DC-HSDPA		850/1900
LTE (FDD)	QPSK 16QAM		B5/B4/B2
CDMA	RC1/RC3		B2/B4/B5/B7/B12/B13/ B14//B17/B25/B26/B30/B 38/B41/B66/B71
Wi-Fi	11b/11g/11n(HT20)		B2/B4/B5/B7/B13/B66
	11a/11n(HT20)/11n(HT40)/ 11ac(VHT20)/ 11ac(VHT40)/ 11ac(VHT80)		BC0/BC1/BC10
Bluetooth	V5.0 LE		BC0/BC1



3. Spot Check Verification Data Section

Summary of the spot check:

Test Item	Mode	IHDT56XE1 Worst Result	IHDT56XE2 Worst Result	Difference (dB)
Average Conducted Power (dBm)	GSM(GPRS) 1900	29.73	29.32	0.41
	EDGE 1900	25.48	25.22	0.26
	UMTS B4 (RMC 12.2Kbps)	22.74	22.52	0.22
	LTE B4 (FDD - QPSK)	22.84	22.96	-0.12
	LTE B7 (FDD - QPSK)	22.83	23.03	-0.2
	LTE B13 (FDD - QPSK)	22.72	22.62	0.1
	LTE B66 (FDD - QPSK)	22.93	22.94	-0.01
	IMEI of test sample	351886090011351	351885090006858	
Test date	2018/02/12	2018/03/01		

Conclusion:

Conducted Power test against the variant model for non-cellular part based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result (power levels measured are within 1dB, and are compliance with the limits), the test data from the original model is representative for the variant model.



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID	Type Grant/Permissive Change	Reference Report Title	Reference Application	Reference Report Sections
Part 22.24.27	PCE	GSM WCDMA	GSM 1900 (EDGE)1900 WCDMA B4	IHDT56XE1	Original Grant	FCC RF Test Report	IHDT56XE2	Part 22.24.27 (FG811821A)
Part 22.24.27	PCE	LTE	LTE B4/B7/B13/B66	IHDT56XE1	Original Grant	FCC RF Test Report	IHDT56XE2	Part 22.24.27 (FG811821B)

End of this report