



SPOT CHECK EVALUATION

FCC ID : IHDT56ZB1
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2071-2, XT2071-3, XT2071-5
Applicant : Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite
1800, Chicago, IL 60654, United States
Manufacturer : Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite
1800, Chicago, IL 60654, United States
Standard : 47 CFR Part 2, 22(H), 24(E), 27(L), 90(S)
FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart C §15.225
FCC Part 15 Subpart E §15.407

The product was received on May 22, 2020 and testing was started from Jun. 03, 2020 and completed on Jul. 26, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Aug. 11, 2020



1. Introduction Section

The FCC ID: IHDT56ZB2 (original model) and FCC ID: IHDT56ZB1 (variant model) are HW identical, the main differences exist per SKUs are related to RF Bands supported. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX) and FCC Part 15E (equipment class: NII) and FCC Part 22, 24, 27, 90 (equipment class: PCE) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: IHDT56ZB1).



2. Difference Section

The difference between IHDT56ZB2 and IHDT56ZB1 is the performance for cellular bands.

The details of similarity and difference can be found in the Operating Description.



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Summary of the spot check:

Test Item	Mode	IHDT56ZB2 Worst Result	IHDT56ZB1 Worst Result	Difference (dB)
Average Conducted Power (dBm)	BT-DH1	15.67	15.54	0.13
	BLE5.1(1/2Mbps)	9.00	9.20	-0.2
	WLAN 2.4G(MIMO)	23.98	23.37	-0.61
	WLAN 5G B1-3(MIMO)	22.57	22.54	0.03
	WLAN 5G B4 (MIMO)	23.38	23.08	0.3
	WWAN GSM(GPRS)(EDGE)850	32.47	32.42	0.05
	WWAN GSM(GPRS)(EDGE)1900	29.70	28.9	0.8
	WWAN WCDMA Band 2	23.23	23.06	0.17
	WWAN WCDMA Band 4	23.12	23.20	-0.08
	WWAN WCDMA Band 5	23.06	23.23	-0.17
	WWAN CDMA BC0	24.00	24.17	-0.17
	WWAN LTE Band 2	23.02	22.96	0.06
	WWAN LTE Band 4	22.91	22.96	-0.05
	WWAN LTE Band 5	22.68	22.76	-0.08
	WWAN LTE Band 7	23.22	23.22	0
	WWAN LTE Band 12	22.73	22.74	-0.01
	WWAN LTE Band 13	22.43	22.52	-0.09
	WWAN LTE Band 17	22.67	22.82	-0.15
	WWAN LTE Band 26 (Part 22)	22.65	22.65	0
	WWAN LTE Band 26 (Part 90)	22.82	22.45	0.37
	WWAN LTE Band 38	23.17	23.73	-0.56
	WWAN LTE Band 66	22.88	22.89	-0.01
	WWAN LTE Band 71	22.85	23.01	-0.16
WLAN				
Radiated Spurious Emission (Band Edge) (dBuV/m)	BT-DH1	31.17	30.48	0.69
	BLE5.1(2Mbps)	48.53	48.99	-0.46
	WLAN 2.4G 802.11b(MIMO)	50.82	50.72	0.1
	WLAN 2.4G 802.11g(n20)(MIMO)	50.97	48.98	1.99
	WLAN 5G B1-3(MIMO)	50.98	48.04	2.94
	WLAN 5G B4 (MIMO)	56.38	54.38	2
Radiated Spurious Emission (Harmonic) (dBuV/m)	BT-DH1	46.8	46.33	0.47
	BLE5.0(2Mbps)	46.99	47.12	-2.87
	WLAN 2.4G 802.11b(MIMO)	44.72	47.71	-2.99
	WLAN 2.4G 802.11g(n20)(MIMO)	45.15	44.83	0.32
	WLAN 5G B1-3(MIMO)	51.59	50.72	0.87
	WLAN 5G B4 (MIMO)	52.27	51.44	0.83



Test Item	Mode	IHDT56ZB2 Worst Result	IHDT56ZB1 Worst Result	Difference (dB)
WWAN				
Radiated Spurious Emission (Harmonic) (dBuV/m)	WWAN GSM(GPRS)(EDGE)850	-40.12	-45.47	5.35
	WWAN GSM(GPRS)(EDGE)1900	-51.26	-51.6	0.34
	WWAN WCDMA Band 2	-51.33	-51.63	0.3
	WWAN WCDMA Band 4	-51.91	-52.19	-0.28
	WWAN WCDMA Band 5	-57.93	-58.29	0.36
	WWAN CDMA BC0	-57.44	-58.03	0.59
	WWAN LTE Band 2	-50.00	-52.01	2.01
	WWAN LTE Band 4	-51.92	-53.63	1.71
	WWAN LTE Band 5	-58.35	-57.76	-0.57
	WWAN LTE Band 7	-43.59	-43.86	0.27
	WWAN LTE Band 12	-59.42	-58.80	-0.62
	WWAN LTE Band 13	-61.24	-61.73	0.49
	WWAN LTE Band 17	-58.92	-59.20	0.28
	WWAN LTE Band 26(Part 22)	-58.71	-58.44	-0.27
	WWAN LTE Band 26(Part 90)	-58.13	-58.31	0.18
	WWAN LTE Band 38	-43.60	-43.50	-0.1
	WWAN LTE Band 66	-51.15	-51.92	0.77
	WWAN LTE Band 71	-43.74	-59.71	15.97
NFC (dBuV/m)	RSE (30MHz to1GHz)	33.26	31.52	1.74



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
15C	DTS	Bluetooth – LE Wii-Fi	2400~2483.5	IHDT56ZB2	Original Grant	Part 15C (FR051232B, FR051232C)	IHDT56ZB1
	DSS	Bluetooth	2400~2483.5	IHDT56ZB2	Original Grant	Part 15C (FR051232A)	IHDT56ZB1
	DXX	NFC	13.56	IHDT56ZB2	Original Grant	Part 15C (FR051232D)	IHDT56ZB1
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	IHDT56ZB2	Original Grant	Part 15E (FR051232E, FR051232F, FR051232G)	IHDT56ZB1
Part 22.24.27.90	PCE	GSM /WCDMA /CDMA	GSM 850/1900 WCDMA B2/4/5 BC0	IHDT56ZB2	Original Grant	Part 22.24.27 (FG051232A)	IHDT56ZB1
		LTE	LTE B2/4/5/7/12/13/17/26/ 38/66/71	IHDT56ZB2	Original Grant	Part 22.24.27.90 (FG051232B, FG051232D FG051232E)	IHDT56ZB1

END of this report