



SPOT CHECK EVALUATION

FCC ID : APYHRO00310
Equipment : Smart phone
Brand Name : SHARP
Applicant : SHARP CORPORATION
1 Takumi-cho, Sakai-ku, Sakai City Osaka,
Japan 590-8522
Manufacturer : SHARP CORPORATION
1 Takumi-Cho, Sakai-Ku, Sakai-Shi, Osaka
590-8522, Japan
Standard : FCC Part 15 Subpart C §15.225
FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407
47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jan.17, 2022 and testing was started from Feb. 18, 2022 and completed on Mar. 11, 2022. 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 spot check data 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.

Louis Wu

Approved by: Louis Wu

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Mar. 18, 2022
02	Add section 5,	Mar. 24, 2022



1. Introduction Section

The FCC ID: APYHRO00309 (original model) and FCC ID: APYHRO00310 (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 (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: APYHRO00310).



2. Difference Section

The difference between APYHRO00309 and APYHRO00310 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	APYHRO00309 Worst Result	APYHRO00310 Worst Result	Difference (dB)
Average Conducted Power (dBm)	BT	11.81	11.69	0.12
	BLE	7.8	7.6	0.2
	WLAN 2.4G	18.8	18.6	0.2
	WLAN 5G B1-3	18.8	18.7	0.1
	WWAN GSM/GPRS 850	32.24	32.21	0.03
	WWAN GSM/GPRS 1900	29.63	29.58	0.05
	WWAN WCDMA Band 5	23.93	23.93	0
	WWAN LTE Band 2	22.74	22.67	0.07
	WWAN LTE Band 5	23.32	23.21	0.11
	WWAN LTE Band 7	22.64	22.58	0.06
	WWAN LTE Band 12	22.71	22.70	0.01
WWAN LTE Band 17	22.70	22.67	0.03	
Radiated Spurious Emission (Band Edge) (dBuV/m)	BT	53.82	53.15	0.67
	BLE	49.77	49.39	0.38
	WLAN 2.4G	50.89	50.54	0.35
	WLAN 5G B1-3	50.87	50.91	-0.04
Radiated Spurious Emission (Harmonic) (dBuV/m)	BT	52.5	51.3	1.2
	BLE	46.52	45.90	0.62
	WLAN 2.4G	50.64	50.30	0.34
	WLAN 5G B1-3	52.27	50.35	1.92
	WWAN GSM/GPRS 850	-41.33	-47.1	5.77
	WWAN GSM/GPRS 1900	-41.87	-46.41	4.54
	WWAN WCDMA Band 5	-55.61	-56.33	0.72
	WWAN LTE Band 2	-45.44	-45.48	0.04
	WWAN LTE Band 5	-55.61	-56.24	0.63
	WWAN LTE Band 7	-42.38	-42.64	0.26
	WWAN LTE Band 12	-37.40	-51.61	14.21
	NFC	33.51	32.94	0.57
Radiated fundamental (dBuV/m)	NFC	15.76	15.24	0.52



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Original FCC ID	Original Report	Variant Model FCC ID	Variant Model Report
15C	DTS	Bluetooth – LE Wii-Fi	2400~2483.5	APYHRO00309	Part 15C (FR211502B, FR211502C)	APYHRO00310	Part 15C (FR211502-01B, FR211502-01C)
	DSS	Bluetooth	2400~2483.5	APYHRO00309	Part 15C (FR211502A)	APYHRO00310	Part 15C (FR211502-01A)
	DXX	NFC	13.56	APYHRO00309	Part 15C (FR211502D)	APYHRO00310	Part 15C (FR211502-01D)
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725	APYHRO00309	Part 15E (FR211502E)	APYHRO00310	Part 15E (FR211502-01E)
Part 22.24.27	PCE	GSM/WCDMA	GSM 850/1900 WCDMA B5	APYHRO00309	Part 22.24.27 (FG211502A)	APYHRO00310	Part 22.24.27 (FG211502-01A)
		LTE	LTE B2/5/7/12/17	APYHRO00309	Part 22.24.27 (FG211502B)	APYHRO00310	Part 22.24.27 (FG211502-01B)

Note 1: For DFS is Full test



5. List of Measuring Equipment & Setup Plots

Please refer to refer to Variant Model Report

Report No. : FR211502-01A/FR211502-01B/FR211502-01C/FR211502-01D/ FR211502-01E/
FG211502-01A/ FG211502-01B

END of this report