



SPOT CHECK EVALUATION

The product was received on Dec. 05, 2022 and testing was performed from Dec. 12, 2022 to Jan. 07, 2023. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

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History of this test report



1. Introduction Section

Abyssal Plain LLC will take full responsibility for reuse the test data.

Abyssal Plain LLC, hereby declares that the WLAN and Bluetooth hardware of 2AWRO-8432 are HW identical to 2AWRO-8762 (lead). In addition, 2AWRO-8432 digital circuit is identical to 2AWRO-8762 (lead). Therefore the following report of 2AWRO-8762 (lead) may be used as reference test data for 2AWRO-8432, along with the spot check verification data following the FCC KDB 484596 D01 v01.

- WLAN
- Bluetooth



2. Model Difference Information

Difference between 2AWRO-8762 (lead) and 2AWRO-8432:

2AWRO-8432 is referred 2AWRO-8762 (lead) to minor circuitry change to non-transmitter portions to add GPS receiver, modify front, and rear cameras, add WPT function, add NFC function and add an e-compass. 2AWRO-8432 device dimension is slightly extended for rear and front cameras upgrade. WiFi/BT IC, RF circuit, and antenna pattern are the same as 2AWRO-8762 (lead), only slightly shift location for extended ID. RF conducted power, and antenna gain are almost the same as 2AWRO-8762 (lead) Abyssal Plain LLC, hereby declares that 2AWRO-8762 (lead) and 2AWRO-8432 are electrical identical. Therefore the WLAN/Bluetooth report/data of 2AWRO-8762 (lead) may represent for 2AWRO-8432.



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 to demonstrate the test data from original model remains representative for the variant model.

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	2AWRO-8762 (lead) Worst Result	2AWRO-8432 Worst Result	Difference (dB)
Average Conducted Power (dBm)	BT	7.67	7.52	0.15
	BLE	7.7	7.3	0.4
	WLAN 2.4G	15.2	15.0	0.2
	WLAN 5G	13.8	13.7	0.1
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Average Radiated Spurious Emission (Band Edge) (dBuV/m)	BT	20.41	20.7	-0.29
	BLE	46.56	46.11	0.45
	WLAN 2.4G	52.97	50.25	2.72
	WLAN 5G	53.45	48.74	4.71
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Peak Radiated Spurious Emission (Harmonic) (dBuV/m)	BT	44.05	45.8	-1.75
	BLE	44.09	44.49	-0.4
	WLAN 2.4G	54.4	54.74	-0.34
	WLAN 5G	52.59	48.51	4.08

**Conclusion:**

Radiated spurious emission test against the variant model 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, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

UNII DFS detection mechanism/software of variant model is the same as original model, thus the original DFS report is being reused and no spot check is done on the variant model.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and take full responsibility that the test data as referenced from the parent model report represents compliance for the new FCC ID.

SAR testing has been fully tested on the variant model.



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/Permissive Change	Reference Title	FCC ID Filing (Variant)
15C	DSS	Bluetooth	2400~2483.5	2AWRO-8762	Original Grant	FR072932-01A	2AWRO-8432
	DTS	BLE Wi-Fi	2400~2483.5	2AWRO-8762	Original Grant	FR072932-01B FR072932-01C	2AWRO-8432
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850	2AWRO-8762	Original Grant	FR072932-01E FR072932-01F	2AWRO-8432
		DFS	5250~5350 5470~5725	2AWRO-8762	Original Grant	FZ072932-01	2AWRO-8432



5. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Dec. 12, 2022~Dec. 19, 2022	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Dec. 12, 2022~Dec. 13, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Dec. 12, 2022~Dec. 19, 2022	Aug. 02, 2023	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Aug. 08, 2022	Dec. 13, 2022~Dec. 19, 2022	Aug. 07, 2023	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Aug. 08, 2022	Dec. 13, 2022~Dec. 19, 2022	Aug. 07, 2023	Conducted (TH05-HY)
BT Base Station(Measure)	Rohde & Schwarz	CBT	101136	BT 3.0	Oct. 25, 2022	Dec. 13, 2022~Dec. 19, 2022	Oct. 24, 2023	Conducted (TH05-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Jun. 27, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Feb. 20, 2023	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Aug. 15, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Aug. 14, 2023	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 25, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Jul. 24, 2023	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 17, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	May 16, 2023	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 25, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Oct. 24, 2023	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Mar. 17, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN2	3GHz High Pass Filter	Jul. 11, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Jul. 10, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN5	6.75GHz High Pass Filter	Mar. 10, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Mar. 09, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 13, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Sep. 12, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 09, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 09, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 09, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Feb. 08, 2023	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 04, 2023 ~ Jan. 07, 2023	N/A	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WHW2-7100-1 0000-18000-4 0CC	SN2	10GHz High Pass Filter	Nov. 14, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Nov. 13, 2023	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 04, 2023 ~ Jan. 07, 2023	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 04, 2023 ~ Jan. 07, 2023	N/A	Radiation (03CH13-HY)
3m Semi Anechoic Chamber (NSA)	TDK	SAC-3M	03CH13-HY	30MHz~1GHz	Dec. 28, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Dec. 27, 2023	Radiation (03CH13-HY)
3m Semi Anechoic Chamber (Site VSWR)	TDK	SAC-3M	03CH13-HY	1GHz~18GHz	Dec. 30, 2022	Jan. 04, 2023 ~ Jan. 07, 2023	Dec. 29, 2023	Radiation (03CH13-HY)

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