



Spot Check Evaluation

APPLICANT : Amazon.com Services LLC
EQUIPMENT : Electronic Display Device
MODEL NAME : SA568B
FCC ID : 2A4DH-5688
STANDARD : 47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Jan. 04, 2024 ~ Jun. 19, 2024

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY.....	3
1 GENERAL DESCRIPTION.....	4
1.1 Applicant.....	4
1.2 Product Feature of Equipment Under Test.....	4
1.3 Modification of EUT	4
1.4 Testing Site.....	4
1.5 Test Software.....	5
1.6 Applicable Standards.....	5
2 RE-USE OF MEASURED DATA.....	6
2.1 Introduction Section.....	6
2.2 Model Difference Information	6
2.3 Reference detail Section:	6
2.4 Spot Check Verification Data Section.....	7
3 AUTOMATICALLY DISCONTINUE TRANSMISSION	10
4 LIST OF MEASURING EQUIPMENT.....	12
5 MEASUREMENT UNCERTAINTY	13



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
391903-04A	Rev. 01	Initial issue of report	Jun. 06, 2024
391903-04A	Rev. 02	Updated details in Section 2.3 on Page 6	Jun. 17, 2024
391903-04A	Rev. 03	Added Automatically Discontinue Transmission test data	Jun. 20, 2024
391903-04A	Rev. 04	Updated model name	Jul. 03, 2024

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Amazon.com Services LLC

410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Electronic Display Device
Model Name	SA568B
FCC ID	2A4DH-5688
SN Code	Conducted: PN43L901350201K2 Radiation: GN433X0434960076/PN43LB0134850473 DFS: GN43H203417400L1

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH08-KS TH01-KS DFS01-KS	CN1257	314309

1.5 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH08-KS	AUDIX	E3	210616

1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r02
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.26-2015

2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: SA568B, FCC ID: 2A4DH-5688) is electrically identical to the reference device (Model: SA569P, FCC ID: 2A4DH-5698) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS) and FCC Part 15E (equipment class: NII) referencing the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r02.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2A4DH-5688 .

2.2 Model Difference Information

The **main** difference between FCC ID: 2A4DH-5698 and FCC ID: 2A4DH-5688 is as below:

- Remove WPT.

Other differences and all the details of similarity and difference can be found in the confidential documents (SA568B_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	2A4DH-5698	Original Grant	FR391903-01A	2A4DH-5688	All sections applicable
	DTS (BLE)	2400~2483.5	2A4DH-5698	Original Grant	FR391903-01B	2A4DH-5688	All sections applicable
	DTS (WLAN)	2400~2483.5	2A4DH-5698	Original Grant	FR391903-01C	2A4DH-5688	All sections applicable
15E	U-NII	5180~5240	2A4DH-5698	Original Grant	FR391903-01D	2A4DH-5688	All sections applicable
		5260~5320	2A4DH-5698	Original Grant	FR391903-01D	2A4DH-5688	All sections applicable
		5500~5720	2A4DH-5698	Original Grant	FR391903-01D	2A4DH-5688	All sections applicable
		5745~5825	2A4DH-5698	Original Grant	FR391903-01D	2A4DH-5688	All sections applicable

2.4 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.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB}/20) \text{ dB}, \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

$$d_{dB} = |V_{dB} - R_{dB}| = 6 \text{ dB}, \text{ for } M_{dB} > 60 \text{ dB}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.



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

Test Item	Mode	2A4DH-5698 Parent Worst mode Test Result	2A4DH-5688 Variant Check Test Result	Deviation (dB)	Limit (dB)
Conducted Power (dBm)	BT BR/EDR	7.10	7.02	-0.08	3
	BLE 1M	-1.54	-1.76	-0.22	3
	BLE 2M	-1.24	-1.46	-0.22	3
	2.4G 11b	16.68	16.21	-0.47	3
	2.4G 11g	14.96	14.48	-0.48	3
	2.4G 11n20	14.38	13.95	-0.43	3
	5G 11a UNII-1	15.00	14.82	-0.18	3
	5G 11a UNII-2A	14.96	14.72	-0.24	3
	5G 11a UNII-2C	14.72	14.69	-0.03	3
	5G 11a UNII-3	14.66	14.56	-0.1	3
	5G 11n20 UNII-1	14.79	14.72	-0.07	3
	5G 11n20 UNII-2A	14.91	14.82	-0.09	3
	5G 11n20 UNII-2C	14.83	14.78	-0.05	3
	5G 11n20 UNII-3	14.65	14.41	-0.24	3
	5G 11n40 UNII-1	14.85	14.61	-0.24	3
	5G 11n40 UNII-2A	14.83	14.78	-0.05	3
	5G 11n40 UNII-2C	14.71	14.56	-0.15	3
	5G 11n40 UNII-3	14.61	14.54	-0.07	3
	5G 11AC20 UNII-1	14.61	14.55	-0.06	3
	5G 11AC20 UNII-2A	14.85	14.63	-0.22	3
	5G 11AC20 UNII-2C	14.72	14.61	-0.11	3
	5G 11AC20 UNII-3	14.61	14.38	-0.23	3
	5G 11AC40 UNII-1	13.63	13.51	-0.12	3
	5G 11AC40 UNII-2A	13.89	13.73	-0.16	3
	5G 11AC40 UNII-2C	13.73	13.54	-0.19	3
	5G 11AC40 UNII-3	13.56	13.45	-0.11	3
	5G 11AC80 UNII-1	13.38	13.26	-0.12	3
	5G 11AC80 UNII-2A	13.56	13.38	-0.18	3
	5G 11AC80 UNII-2C	13.46	13.39	-0.07	3
	5G 11AC80 UNII-3	13.36	13.29	-0.07	3

Test Item	Mode	2A4DH-5698 Parent Worst Result	2A4DH-5688 Variant Check Result	Deviation (dB)	Limit (dB)
Radiated Spurious Emission (dBm)	Bluetooth BR/EDR	55.73	54.93	-0.8	3
	Bluetooth LE 2Mbps	44.78	44.7	-0.08	3
	2.4G 11g	50.52	48.29	-2.23	3
	5G 11n HT40	50.79	47.88	-2.91	3
	5G 11n HT20	59	57.75	-1.25	3



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.

We confirm that the test data referencing policy of FCC KDB 484596 D01 Referencing Test Data v02r02 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

3 Automatically Discontinue Transmission

3.1.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Result of Automatically Discontinue Transmission

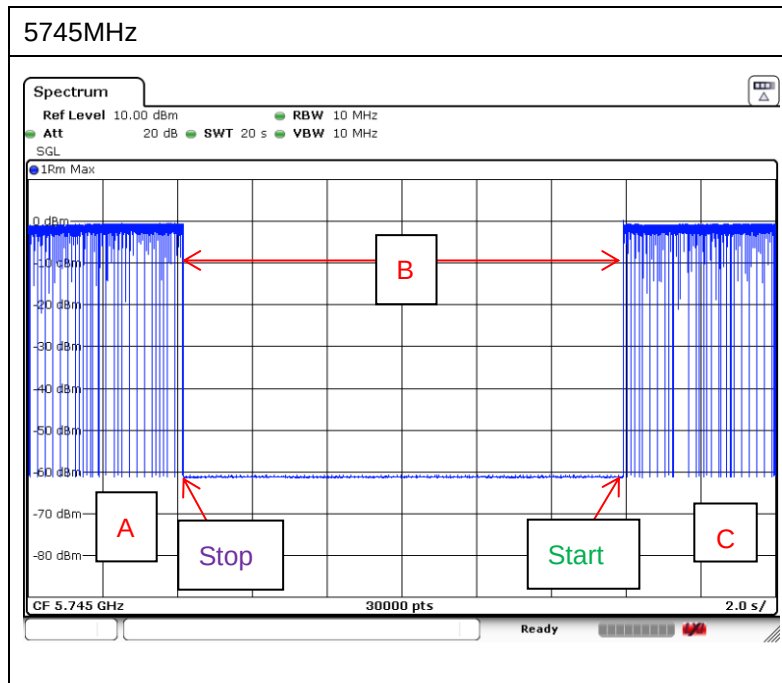
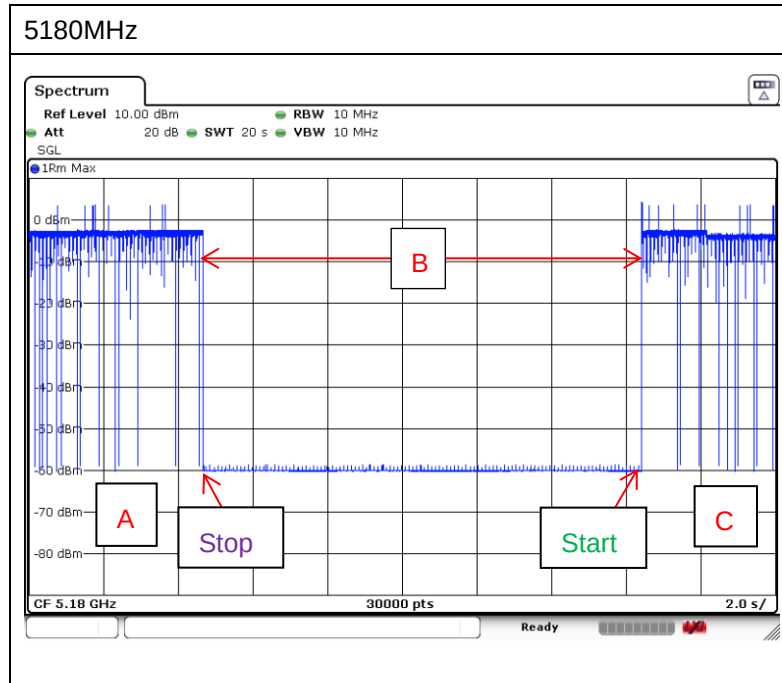
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- A. Information start: make EUT supply information to the access point.
- B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



Note: The control / signaling information during the period B is precluded.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz;Max 30dBm	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz;Max 30dBm	Oct. 10, 2023	Jan. 04, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	Jan. 04, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz~1GHz	Aug. 12, 2023	Jan. 04, 2024	Aug. 11, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 18, 2023	Jan. 04, 2024	Mar. 17, 2024	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Jan. 04, 2024	Jan. 07, 2024	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz~1GHz	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Oct. 10, 2023	Jan. 04, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jan. 04, 2024	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Jan. 04, 2024	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Jan. 04, 2024	NCR	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Mar. 06, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Mar. 06, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Mar. 06, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV7	101632	10Hz~7GHz	Jan. 03, 2024	Jun. 19, 2024	Jan. 02, 2025	DFS (DFS01-KS)

NCR: No Calibration Required.

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 0.46 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.28 dB
--	---------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.90 dB
--	---------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.26 dB
--	---------

-THE END-