

FCC RADIO TEST REPORT

FCC ID: 2BOCY-SM10D-AURAC

ePaper Table PC, Smart E Ink Table,
Product : Color E Ink Table, Color ePaper Table,
Note-Taking Table, Digital Writing Table

Trade Mark : MUSNAP

Model Name : SM10D-AKDC

Family Model : SM10D-ATD

Report No. : S24122706702004

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Palm Reading Technology Co., Ltd.
Address : Room 907-909, 9th Floor, Building 8, Weixin Software Technology Park, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer's Name : Shenzhen Palm Reading Technology Co., Ltd.
Address : Room 907-909, 9th Floor, Building 8, Weixin Software Technology Park, Yuehai Street, Nanshan District, Shenzhen, China

Product description

Product name : ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table
Model and/or type reference : SM10D-AKDC
Family Model..... : SM10D-ATD
Test sample number : S241227067002

Standards : FCC Part15.407

Test procedure..... ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements.. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests Dec. 30, 2024 ~ Mar. 20, 2025

Date of Issue..... Mar. 20, 2025

Test Result..... **Pass**

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Reviewed By : Aaron Cheng
Aaron Cheng
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Approved By : Alex Li
Alex Li
(Manager)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS	
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS	
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS	
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	
15.407(g)	Frequency Stability Measurement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 FACILITIES AND ACCREDITATIONS**FACILITIES**

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS**Site Description**

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^\circ\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
10	Occupied bandwidth	$\pm 4.7\%$
11	Dwell Time	$\pm 5.4\%$
12	POWER SPECTRAL DENSITY	$\pm 1.21\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	
Trade Mark	MUSNAP	
Model Name	SM10D-AKDC	
Family Model	SM10D-ATD	
Model Difference	All models are the same circuit and RF module, except for the color screen corresponds to the SM10D-AKDC model, while the black and white screen corresponds to the SM10D-ATD model.	
FCC ID	2BOCY-SM10D-AURAC	
Product Description	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/n/ac (20MHz channel bandwidth) ☒ 802.11n/ac (40MHz channel bandwidth) ☒ 802.11ac (80MHz channel bandwidth)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20):MCS0-MCS8; 802.11ac(VHT40/VHT80):MCS0-MCS9;
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
	Operating Frequency Range	☒ 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5190-5230MHz for 802.11n(HT40)/ac(VHT40); 5210MHz for 802.11ac(VHT80) ☒ 5745-5825 MHz for 802.11a/n(HT20)/ac(VHT20); 5755-5795 MHz for 802.11n(HT40)/ac(VHT40); 5775MHz for 802.11ac(VHT80)
	Number of Channels	☒ 4 channels for 802.11a/n20/ac20 in the 5180-5240MHz band ; 2 channels for 802.11 n40/ac40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; ☒ 5 channels for 802.11a/n20/ac20 in the 5745-5825MHz band ; 2 channels for 802.11 n40/ac40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band ;
	Antenna Type	FPC Antenna
	Antenna Gain	5.2G: 0.6dBi 5.8G: 1.43dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Ratings	DC 3.8V from battery or DC 5V from USB Port.	
Battery	DC 3.8V, 4000mAh	
Adapter	N/A	

Connecting I/O Port(s)	Please refer to the User's Manual
Hardware version:	N/A
Firmware version:	N/A

Note 1: The prototype has two types of screens (black and white screen and color screen), both of which have been tested for radiation and conduction

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list for 802.11a/n/ac(20MHz) band I (5180-5240MHz):

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band I (5190-5230MHz):

802.11n/ac(40MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

Frequency and Channel list for 802.11ac(80MHz) band I (5210MHz):

802.11ac(80MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band IV (5755-5795MHz):

802.11n/ac(40MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

Frequency and Channel list for 802.11ac(80MHz) band IV (5775MHz):

802.11ac(80MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775			-	-

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 / ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

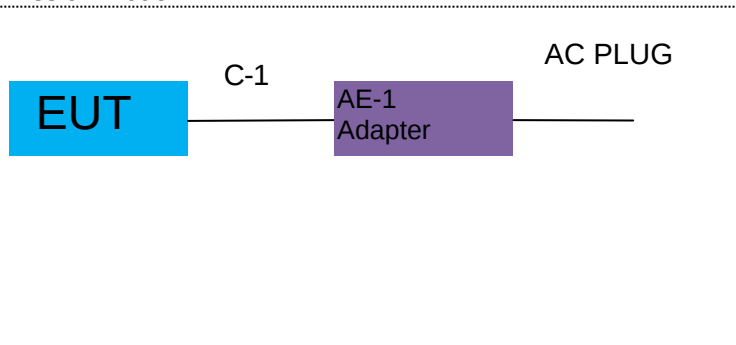
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 / ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

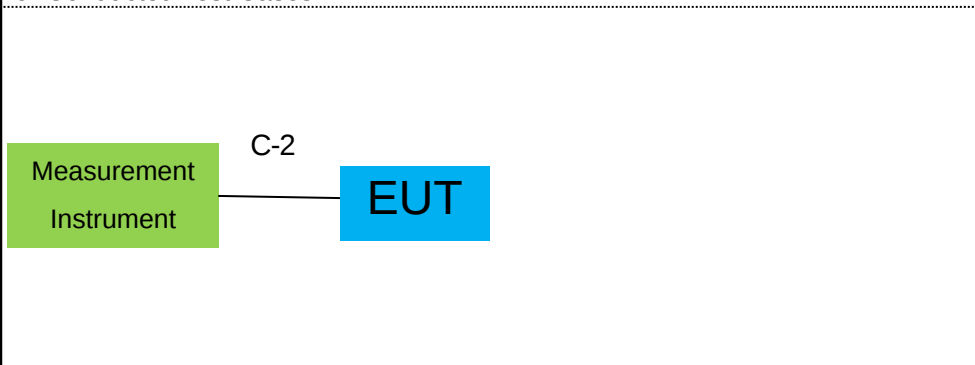
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
2.EUT built-in battery-powered, the battery is fully-charged.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	SM10D-AKDC	N/A	EUT
AE-1	Adapter	HONOTO	ADS-26FSG-12 12024EPI-01	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	0.8m
C-2	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15100041SN084	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

3. TEST REQUIREMENTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

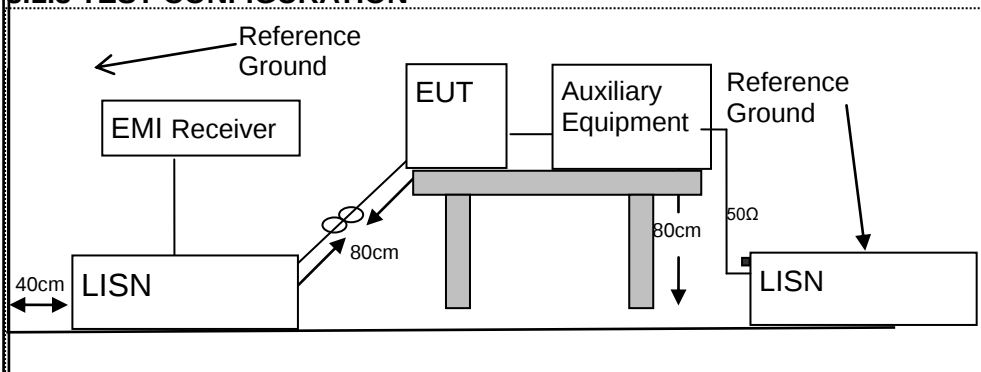
According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

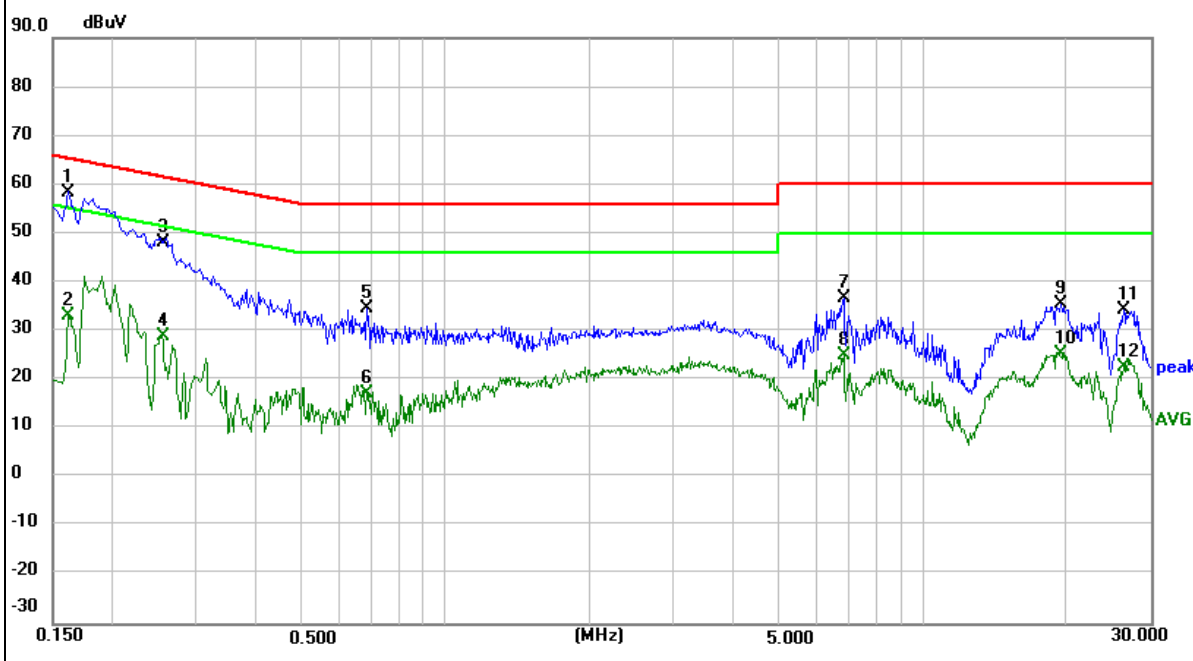
3.1.5 TEST RESULTS

EUT :	ePaper Table PC, Smart Eink Table, Color Eink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name :	SM10D-AKDC
Temperature :	22℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1 (Color screen)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	48.48	10.02	58.50	65.36	-6.86	peak
0.1620	23.19	10.02	33.21	55.36	-22.15	AVG
0.2548	38.08	10.19	48.27	61.60	-13.33	peak
0.2548	18.70	10.19	28.89	51.60	-22.71	AVG
0.6860	23.45	11.09	34.54	56.00	-21.46	peak
0.6860	6.27	11.09	17.36	46.00	-28.64	AVG
6.8340	26.27	10.37	36.64	60.00	-23.36	peak
6.8340	14.83	10.37	25.20	50.00	-24.80	AVG
19.4740	22.74	12.67	35.41	60.00	-24.59	peak
19.4740	12.58	12.67	25.25	50.00	-24.75	AVG
26.3540	20.88	13.58	34.46	60.00	-25.54	peak
26.3540	9.04	13.58	22.62	50.00	-27.38	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

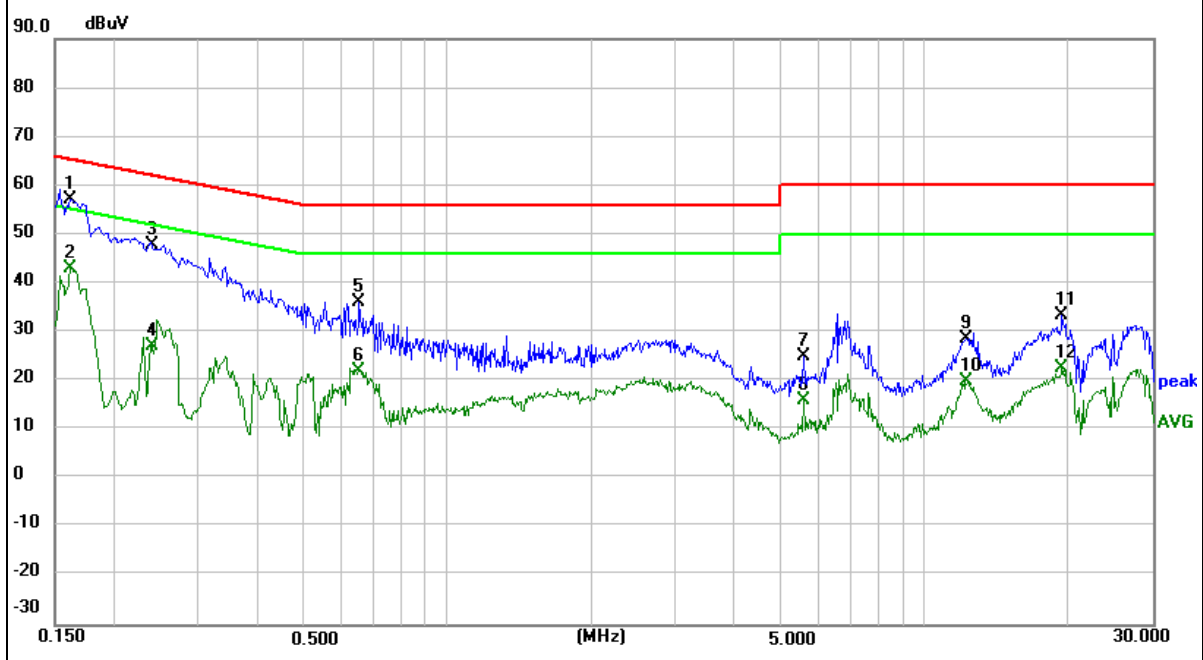


EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name :	SM10D-AKDC
Temperature :	22℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1 (Color screen)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	47.72	9.45	57.17	65.36	-8.19	peak
0.1620	33.66	9.45	43.11	55.36	-12.25	AVG
0.2391	38.36	9.59	47.95	62.13	-14.18	peak
0.2391	17.63	9.59	27.22	52.13	-24.91	AVG
0.6540	25.80	10.28	36.08	56.00	-19.92	peak
0.6540	11.68	10.28	21.96	46.00	-24.04	AVG
5.5860	15.58	9.41	24.99	60.00	-35.01	peak
5.5860	6.74	9.41	16.15	50.00	-33.85	AVG
12.2100	30.38	-1.70	28.68	60.00	-31.32	peak
12.2100	21.56	-1.70	19.86	50.00	-30.14	AVG
19.3300	21.52	11.83	33.35	60.00	-26.65	peak
19.3300	10.79	11.83	22.62	50.00	-27.38	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

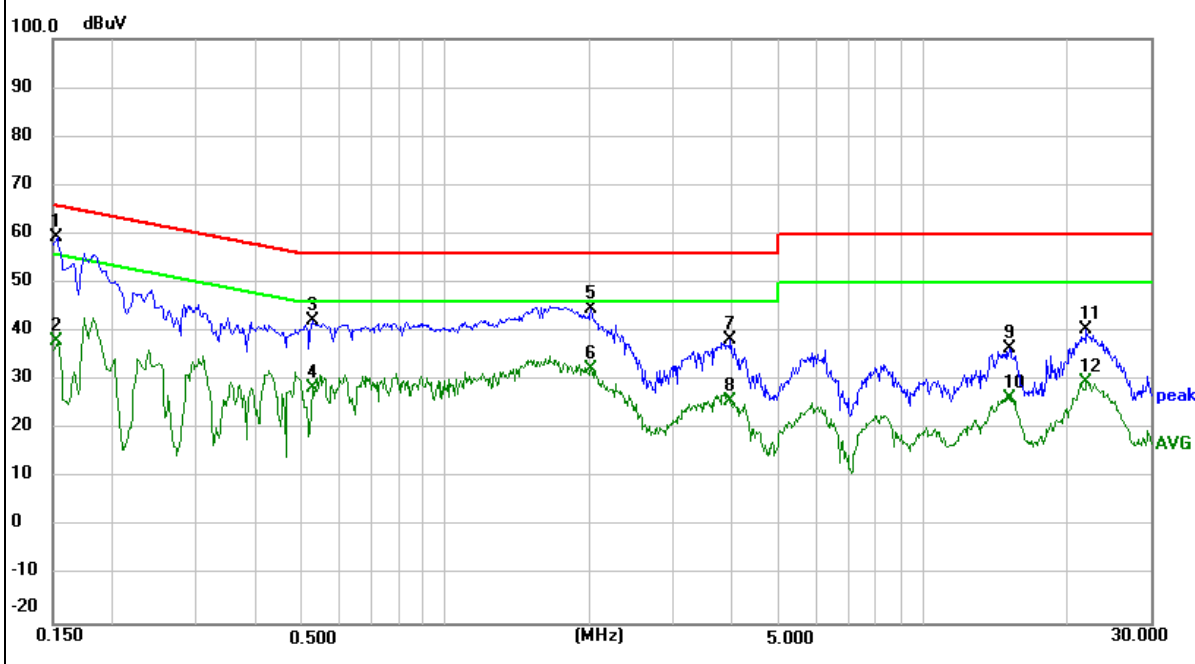


EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name :	SM10D-AKDC
Temperature :	22℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1 (Black and white screen)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	49.32	10.00	59.32	65.79	-6.47	peak
0.1539	28.18	10.00	38.18	55.79	-17.61	AVG
0.5264	31.54	10.74	42.28	56.00	-13.72	peak
0.5264	17.68	10.74	28.42	46.00	-17.58	AVG
2.0220	34.79	9.81	44.60	56.00	-11.40	peak
2.0220	22.56	9.81	32.37	46.00	-13.63	AVG
3.9620	28.29	9.99	38.28	56.00	-17.72	peak
3.9620	15.89	9.99	25.88	46.00	-20.12	AVG
15.1860	24.56	11.88	36.44	60.00	-23.56	peak
15.1860	14.33	11.88	26.21	50.00	-23.79	AVG
22.0540	27.40	13.05	40.45	60.00	-19.55	peak
22.0540	16.74	13.05	29.79	50.00	-20.21	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

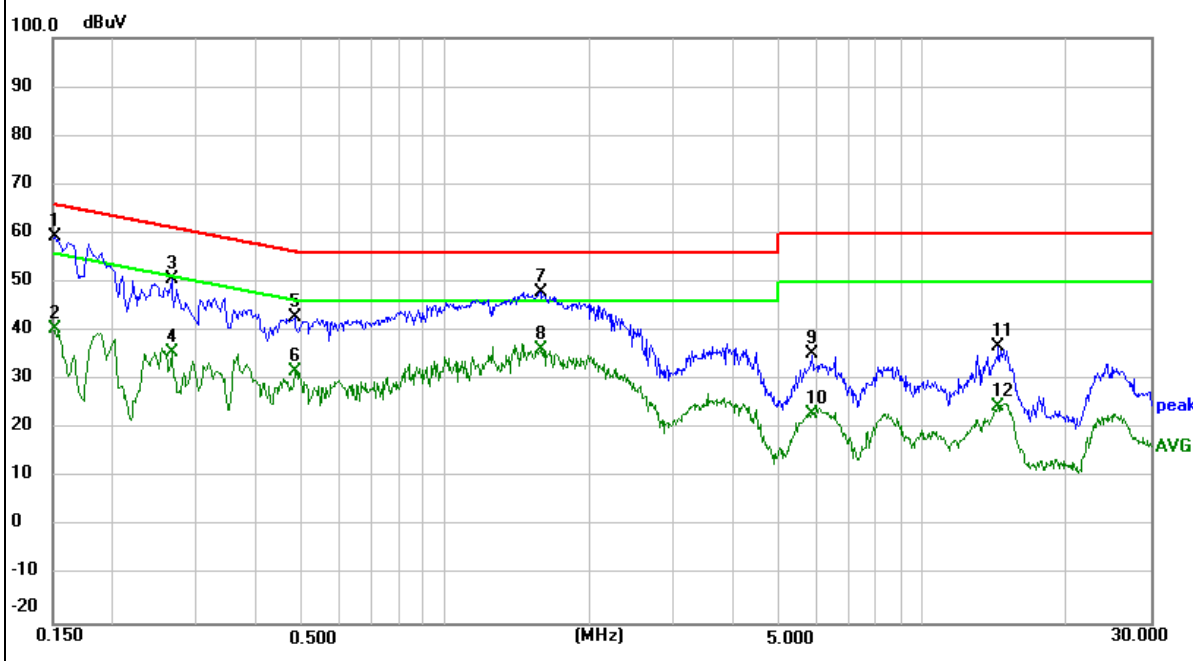


EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name :	SM10D-AKDC
Temperature :	22℃	Relative Humidity :	57%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1 (Black and white screen)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1516	49.80	9.44	59.24	65.91	-6.67	peak
0.1516	30.92	9.44	40.36	55.91	-15.55	AVG
0.2660	40.96	9.65	50.61	61.24	-10.63	peak
0.2660	25.90	9.65	35.55	51.24	-15.69	AVG
0.4820	32.85	9.95	42.80	56.30	-13.50	peak
0.4820	21.76	9.95	31.71	46.30	-14.59	AVG
1.5780	35.74	12.20	47.94	56.00	-8.06	peak
1.5780	24.01	12.20	36.21	46.00	-9.79	AVG
5.8580	25.75	9.45	35.20	60.00	-24.80	peak
5.8580	13.54	9.45	22.99	50.00	-27.01	AVG
14.4220	25.81	10.93	36.74	60.00	-23.26	peak
14.4220	13.68	10.93	24.61	50.00	-25.39	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

According to FCC Part 15.407(b) (1) (4)

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

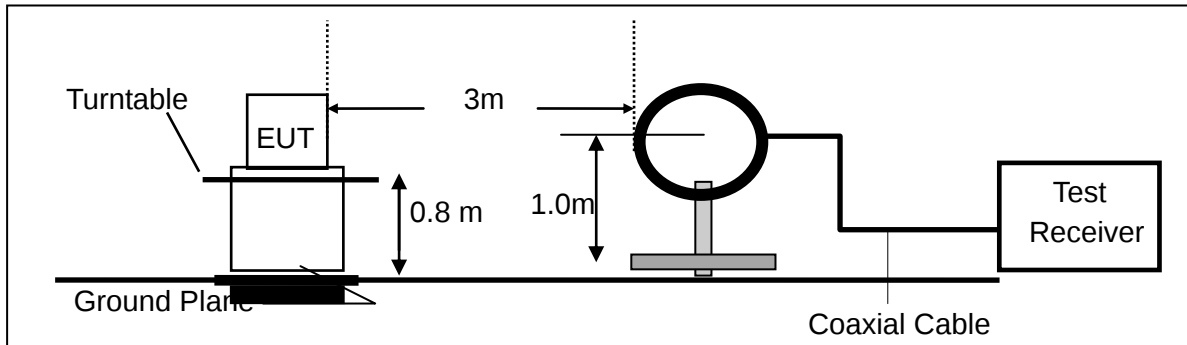
(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.3 MEASURING INSTRUMENTS

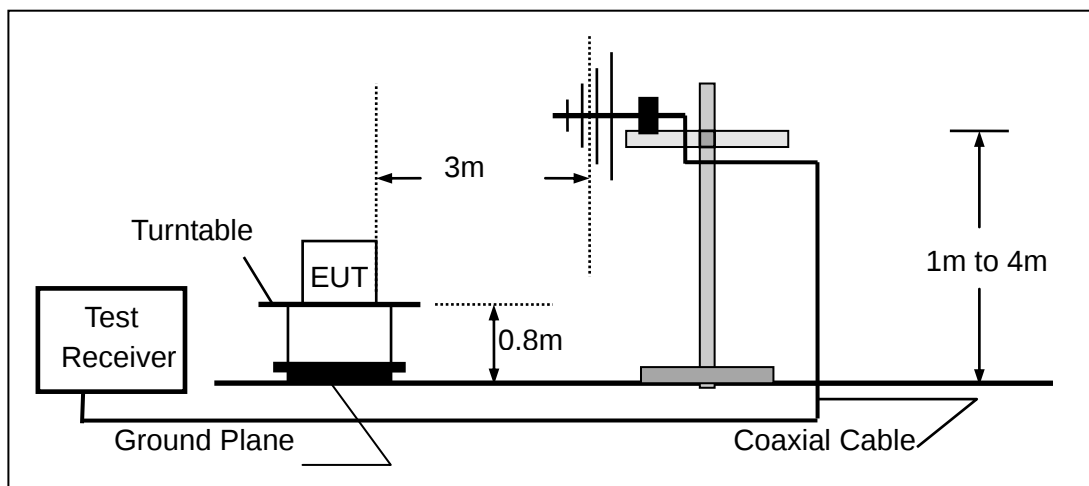
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

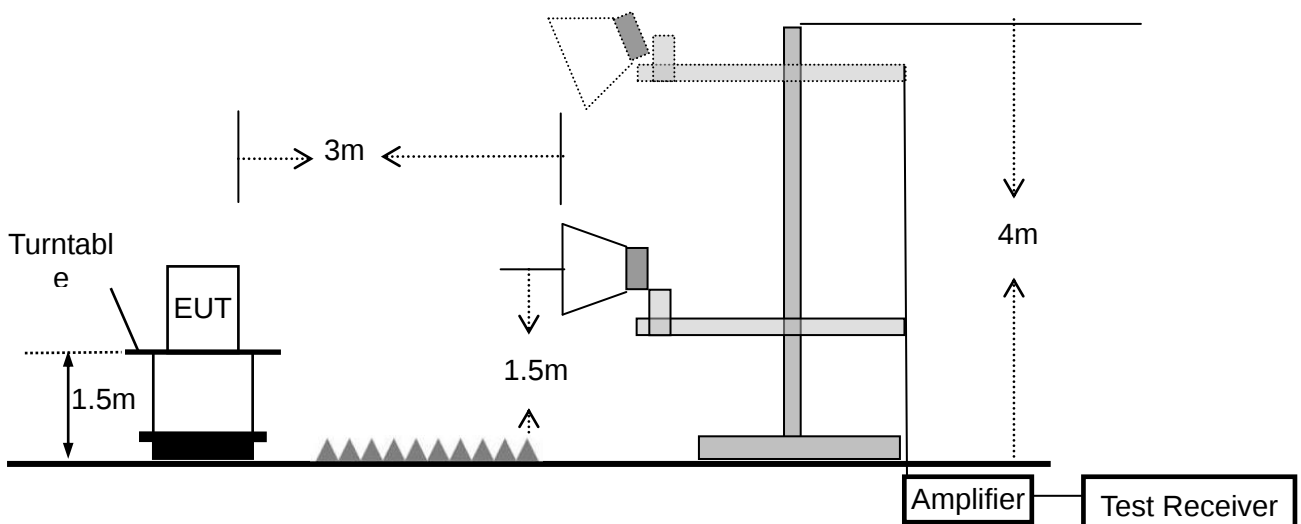
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

3.2.6 TEST RESULTS (9KHz – 30 MHz)

EUT:	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

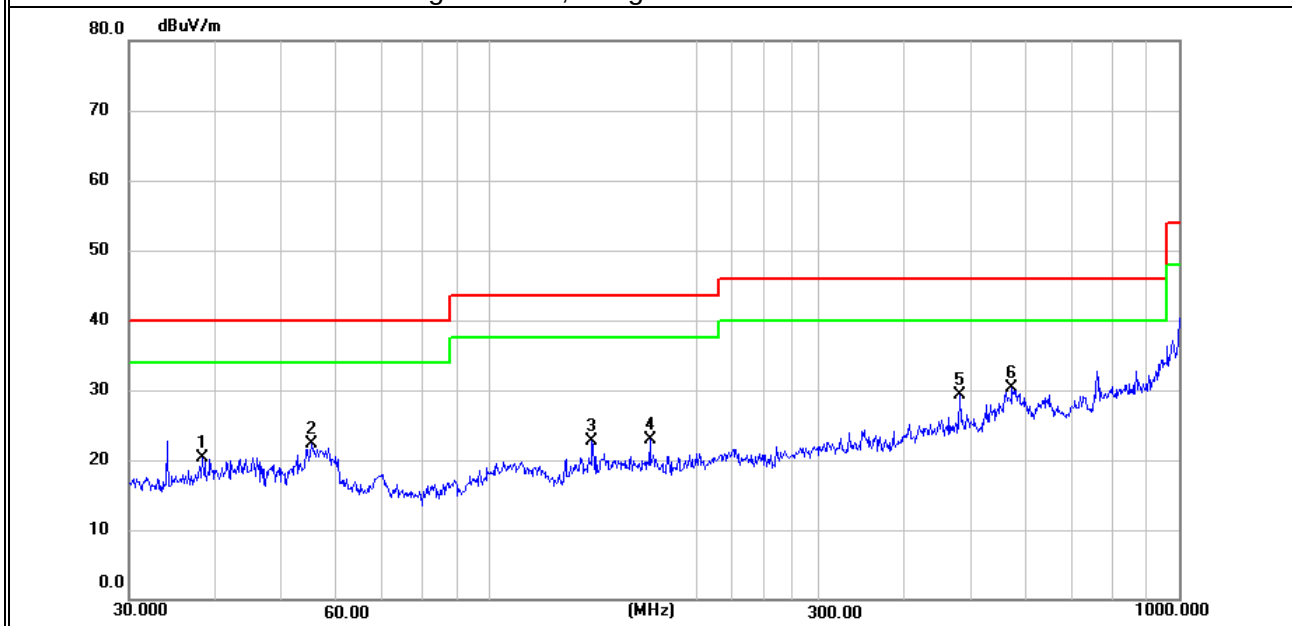
3.2.7 TEST RESULTS (30MHz – 1GHz)

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX- 802.11n20 (High CH) (Color screen)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	38.3462	1.94	18.46	20.40	40.00	-19.60	peak
V	55.2207	2.49	19.76	22.25	40.00	-17.75	peak
V	140.8350	8.52	14.16	22.68	43.50	-20.82	peak
V	170.7923	7.46	15.49	22.95	43.50	-20.55	peak
V	480.5276	5.26	23.96	29.22	46.00	-16.78	peak
V	572.6144	3.65	26.64	30.29	46.00	-15.71	peak

Remark:

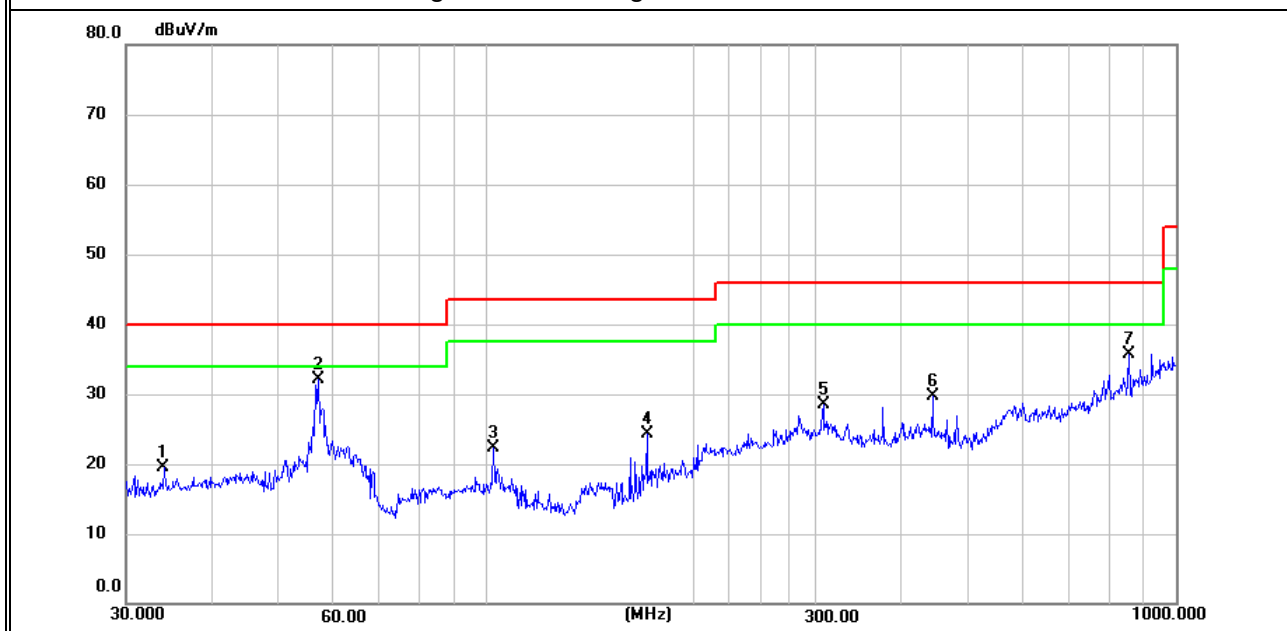
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	34.0363	1.92	17.51	19.43	40.00	-20.57	peak
H	56.9911	12.77	19.30	32.07	40.00	-7.93	peak
H	102.3596	5.05	17.22	22.27	43.50	-21.23	peak
H	170.7923	8.91	15.49	24.40	43.50	-19.10	peak
H	307.8312	8.36	20.07	28.43	46.00	-17.57	peak
H	443.2941	6.49	23.12	29.61	46.00	-16.39	peak

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit

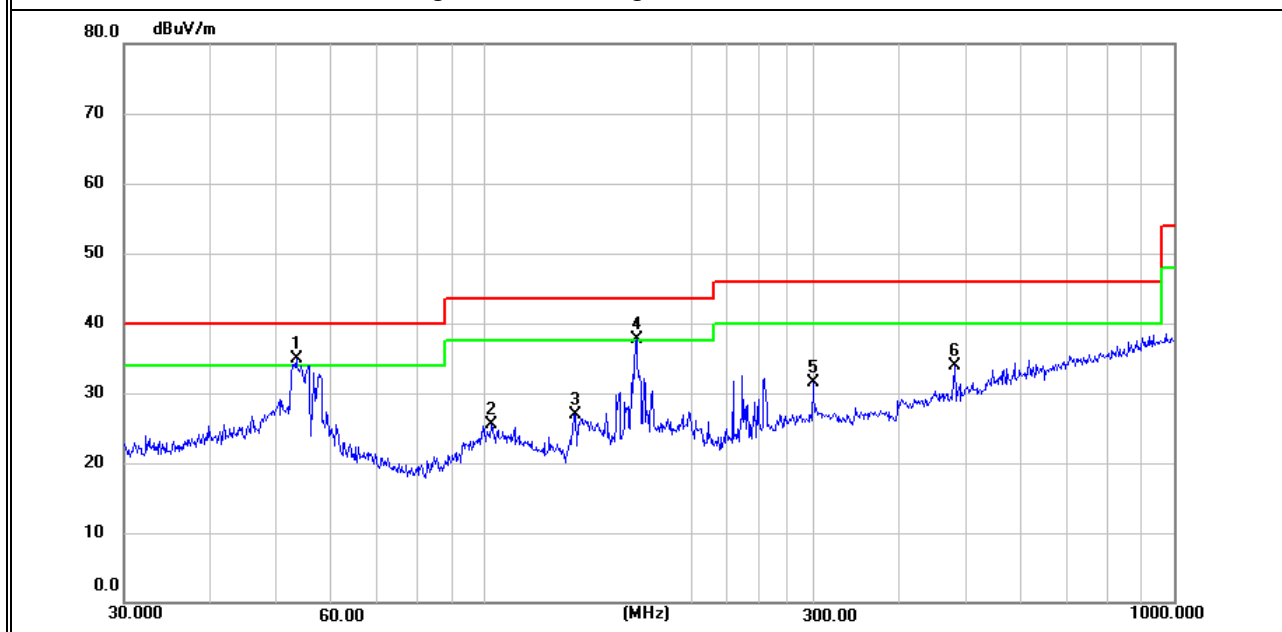


EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX- 802.11n20 (High CH) (Black and white screen)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	53.3180	15.37	19.50	34.87	40.00	-5.13	peak
V	102.3596	7.38	18.03	25.41	43.50	-18.09	peak
V	135.5061	12.28	14.57	26.85	43.50	-16.65	peak
V	166.0680	22.42	15.34	37.76	43.50	-5.74	peak
V	299.3158	11.14	20.43	31.57	46.00	-14.43	peak
V	480.5276	9.55	24.26	33.81	46.00	-12.19	peak

Remark:

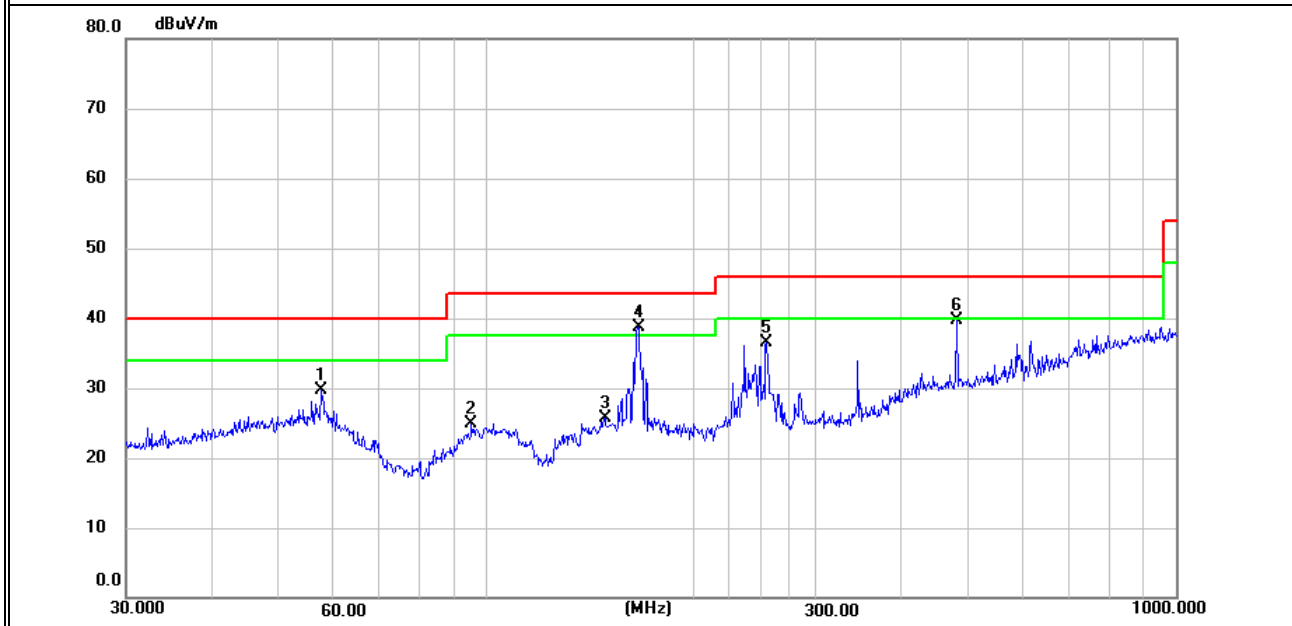
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	57.5940	10.62	19.11	29.73	40.00	-10.27	peak
H	95.0930	7.92	16.98	24.90	43.50	-18.60	peak
H	148.4410	11.09	14.60	25.69	43.50	-17.81	peak
H	166.0680	23.46	15.34	38.80	43.50	-4.70	peak
H	254.7282	17.03	19.53	36.56	46.00	-9.44	peak
H	480.5276	15.37	24.26	39.63	46.00	-6.37	peak

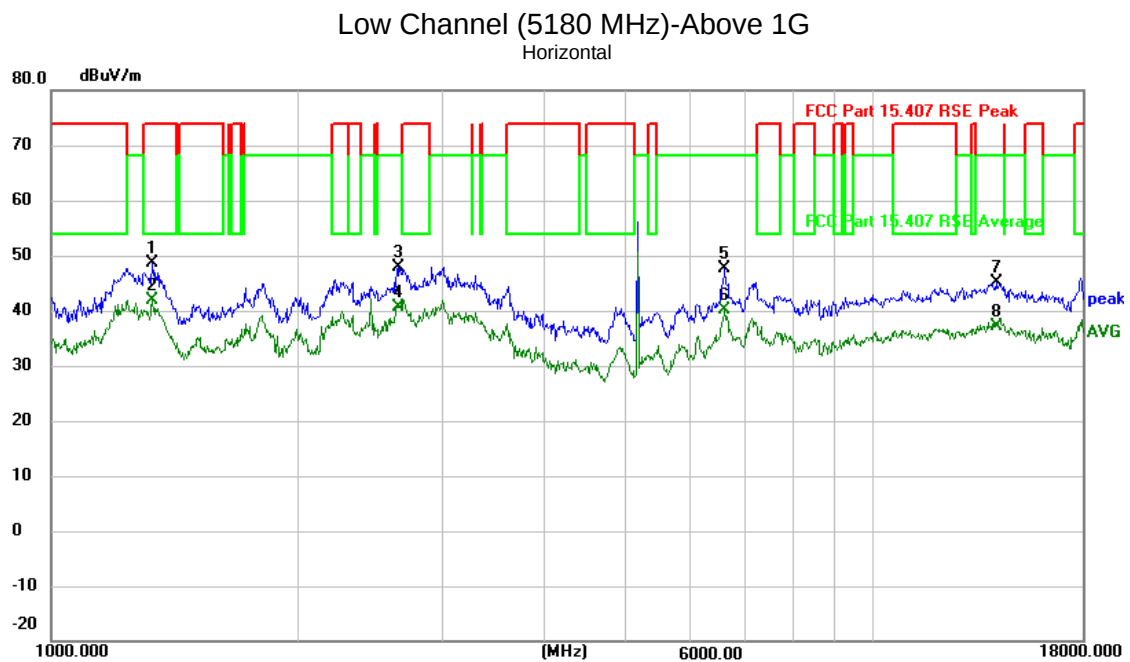
Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



3.2.8 TEST RESULTS (1GHz-18GHz)

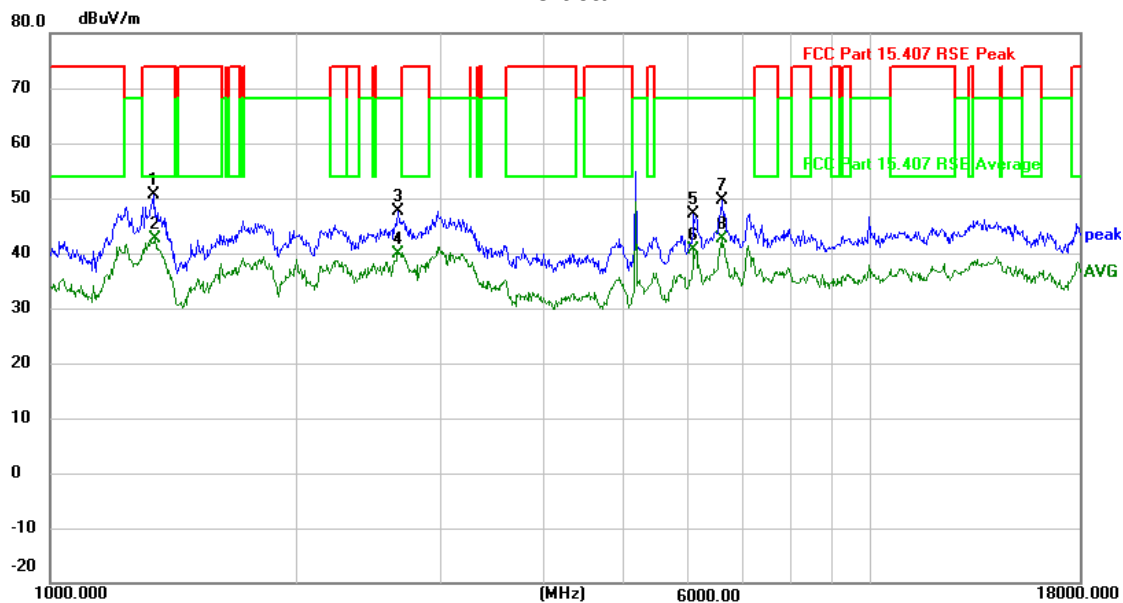
EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G) - 802.11a _5180~5240MHz		



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1329.800	72.49	-23.90	48.59	74.00	-25.41	peak
1329.800	65.68	-23.90	41.78	54.00	-12.22	AVG
2645.600	65.46	-17.57	47.89	68.20	-20.31	peak
2645.600	58.27	-17.57	40.70	68.20	-27.50	AVG
6604.475	56.95	-9.29	47.66	68.20	-20.54	peak
6604.475	49.39	-9.29	40.10	68.20	-28.10	AVG
14127.825	45.78	-0.74	45.04	68.20	-23.16	peak
14127.825	37.97	-0.74	37.23	68.20	-30.97	AVG

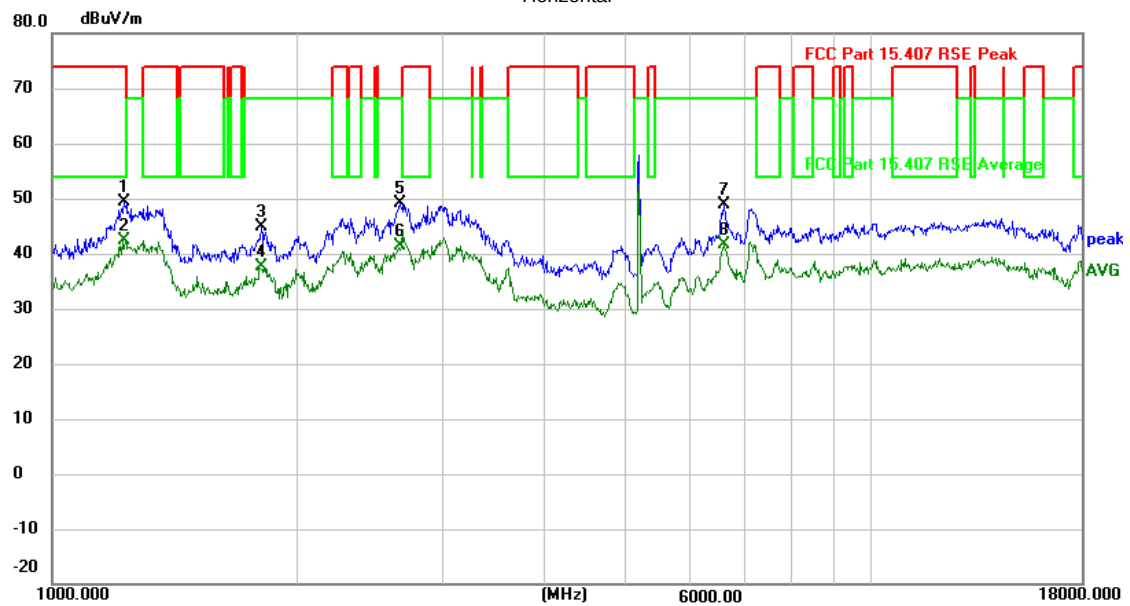
Low Channel (5180 MHz)-Above 1G
Vertical



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1342.550	74.50	-23.91	50.59	74.00	-23.41	peak
1342.550	66.65	-13.91	42.74	54.00	-11.26	AVG
2658.775	65.21	-17.49	47.72	68.20	-20.48	peak
2658.775	57.27	-17.49	39.78	68.20	-28.42	AVG
6102.550	57.64	-10.56	47.08	68.20	-21.12	peak
6102.550	51.15	-10.56	40.59	68.20	-27.61	AVG
6601.925	58.80	-9.27	49.53	68.20	-18.67	peak
6601.925	51.85	-9.27	42.58	68.20	-25.62	AVG

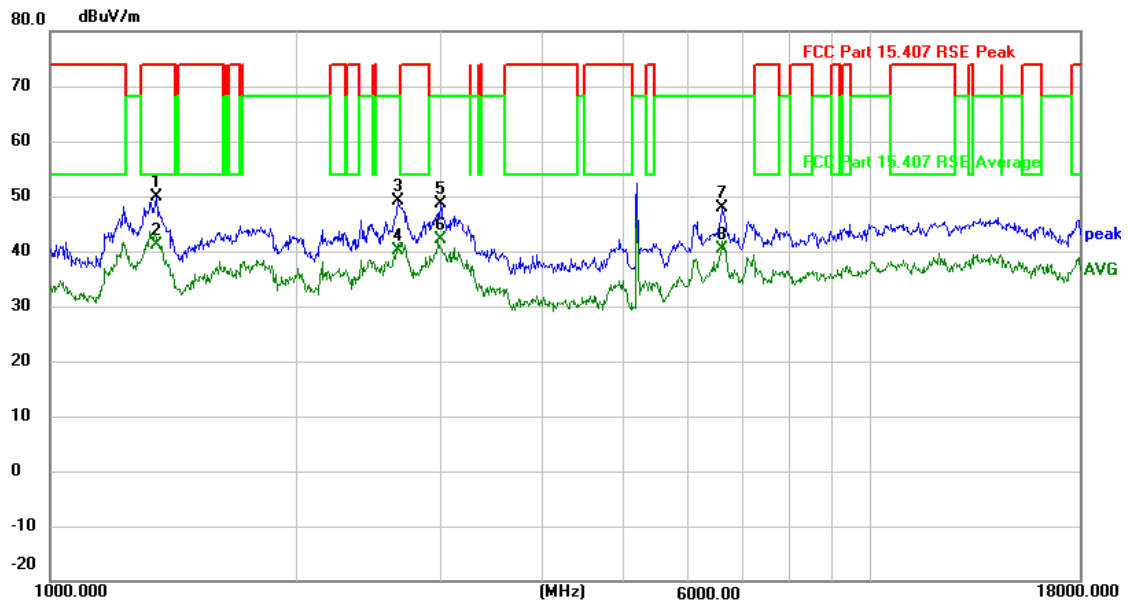
Mid Channel (5200 MHz)-Above 1G
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1225.675	73.40	-24.13	49.27	74.00	-24.73	peak
1225.675	66.51	-24.13	42.38	54.00	-11.62	AVG
1798.575	67.27	-22.41	44.86	68.20	-23.34	peak
1798.575	60.09	-22.41	37.68	68.20	-30.52	AVG
2657.075	66.69	-17.51	49.18	68.20	-19.02	peak
2657.075	58.81	-17.51	41.30	68.20	-26.90	AVG
6584.500	58.13	-9.28	48.85	68.20	-19.35	peak
6584.500	50.98	-9.28	41.70	68.20	-26.50	AVG

Mid Channel (5200 MHz)-Above 1G
Vertical

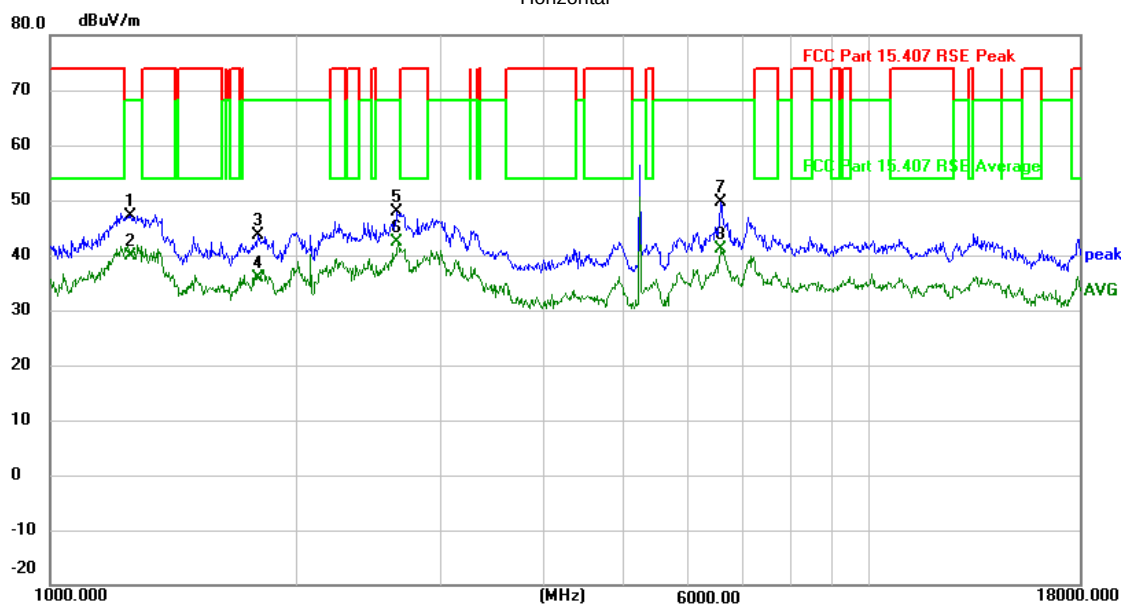


Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1349.775	73.79	-23.93	49.86	74.00	-24.14	peak
1349.775	65.09	-23.93	41.16	54.00	-12.84	AVG
2663.875	66.58	-17.46	49.12	68.20	-19.08	peak
2663.875	57.66	-17.46	40.20	68.20	-28.00	AVG
2997.075	64.12	-15.50	48.62	68.20	-19.58	peak
2997.075	57.68	-15.50	42.18	68.20	-26.02	AVG
6595.550	57.24	-9.26	47.98	68.20	-20.22	peak
6595.550	49.60	-9.26	40.34	68.20	-27.86	AVG

High Channel (5240 MHz)-Above 1G

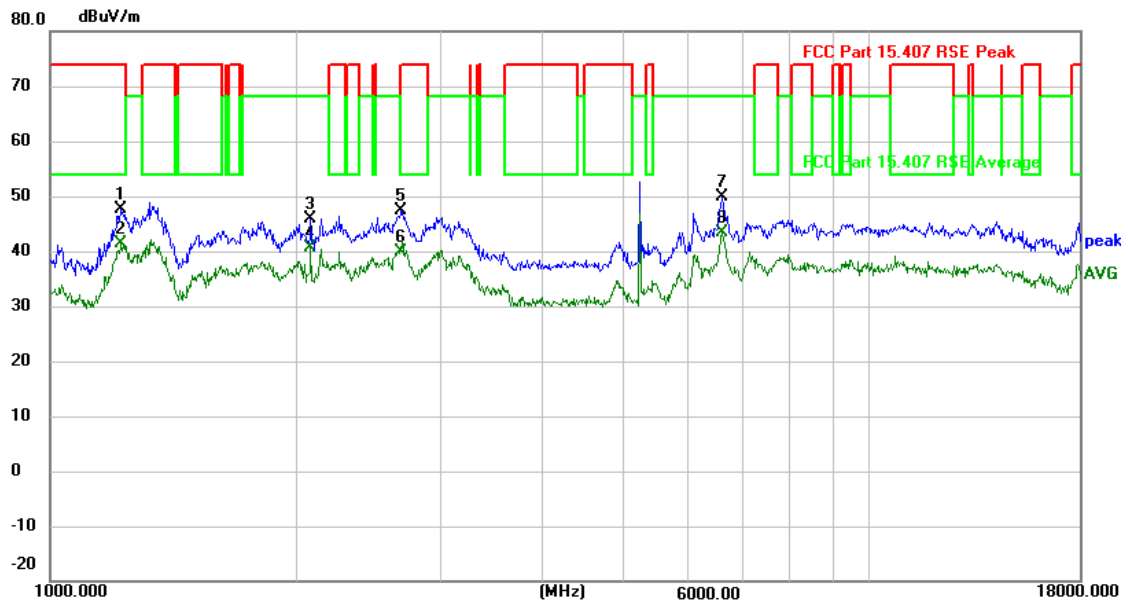
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1254.575	70.97	-23.88	47.09	74.00	-21.11	peak
1254.575	63.82	-23.88	39.94	54.00	-28.26	AVG
1797.725	65.95	-22.41	43.54	68.20	-24.66	peak
1797.725	58.28	-22.41	35.87	68.20	-32.33	AVG
2656.225	65.44	-17.52	47.92	68.20	-20.28	peak
2656.225	60.02	-17.52	42.50	68.20	-25.70	AVG
6582.375	58.86	-9.30	49.56	68.20	-18.64	peak
6582.375	50.32	-9.30	41.02	68.20	-27.18	AVG

High Channel (5240 MHz)-Above 1G
Vertical



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1221.850	71.77	-24.17	47.60	74.00	-26.40	peak
1221.850	65.52	-24.17	41.35	54.00	-12.65	AVG
2080.350	64.56	-18.65	45.91	68.20	-22.29	peak
2080.350	59.22	-18.65	40.57	68.20	-27.63	AVG
2680.450	64.85	-17.37	47.48	68.20	-20.72	peak
2680.450	57.37	-17.37	40.00	68.20	-28.20	AVG
6586.625	59.16	-9.28	49.88	68.20	-18.32	peak
6586.625	52.78	-9.28	43.50	68.20	-24.70	AVG

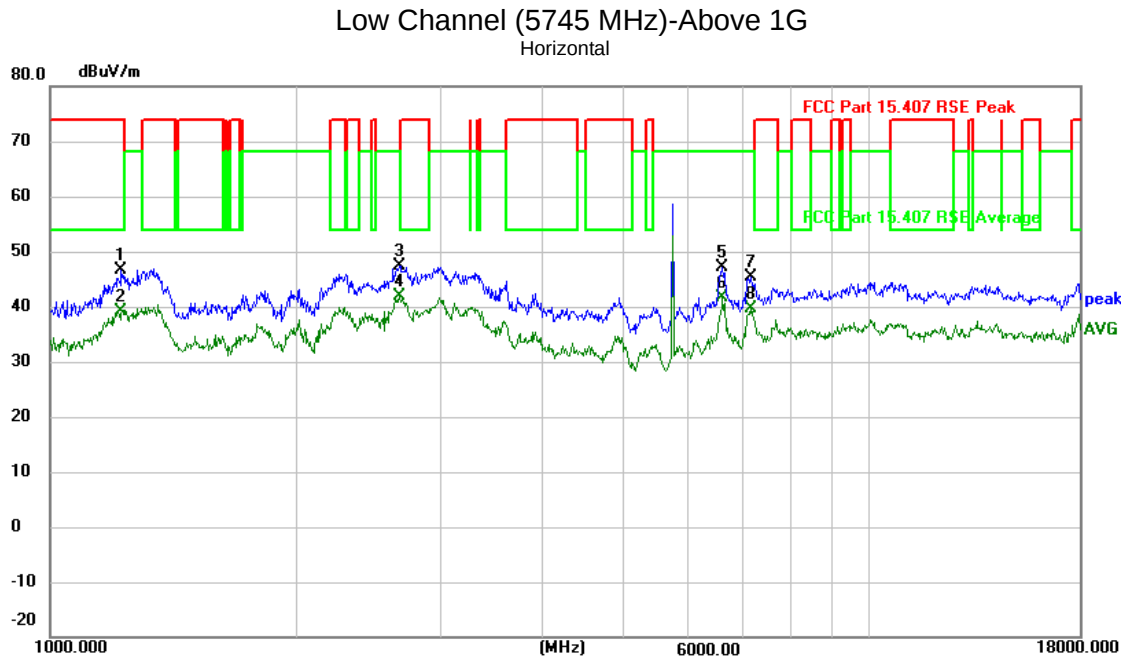
Note: "SISO 802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

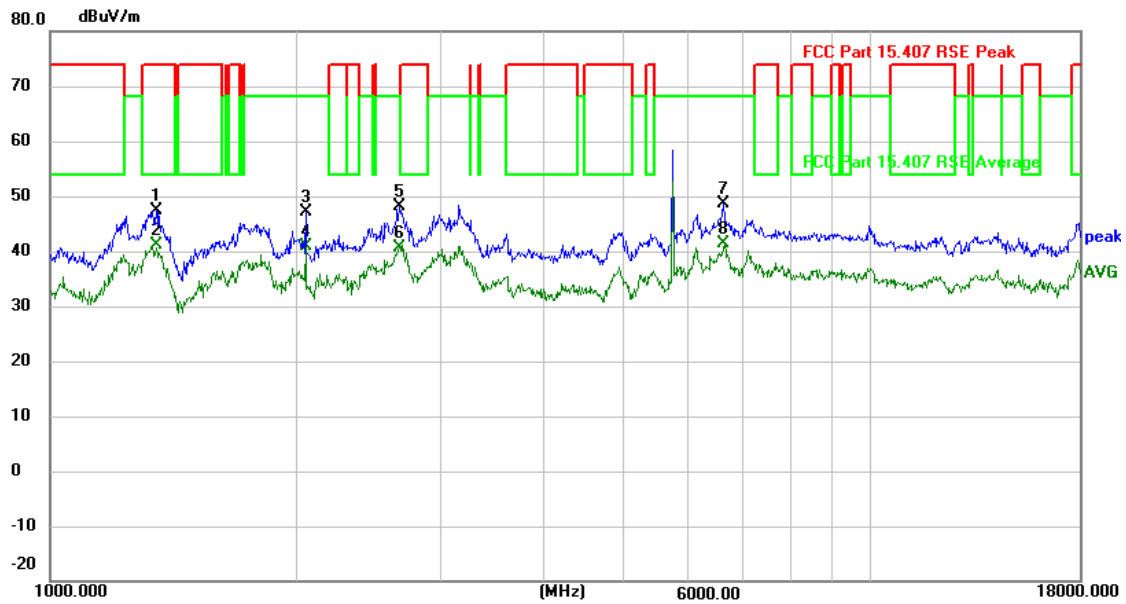
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.8G) -- 802.11a20_5745~5825MHz		

**Measurement Result:**

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1222.275	70.80	-24.16	46.64	74.00	-27.36	peak
1222.275	63.28	-24.16	39.12	54.00	-14.88	AVG
2666.850	64.88	-17.44	47.44	68.20	-20.76	peak
2666.850	59.42	-17.44	41.98	68.20	-26.22	AVG
6602.775	56.39	-9.27	47.12	68.20	-21.08	peak
6602.775	50.95	-9.27	41.68	68.20	-26.52	AVG
7140.825	54.66	-9.17	45.49	68.20	-22.71	peak
7140.825	48.68	-9.17	39.51	68.20	-28.69	AVG

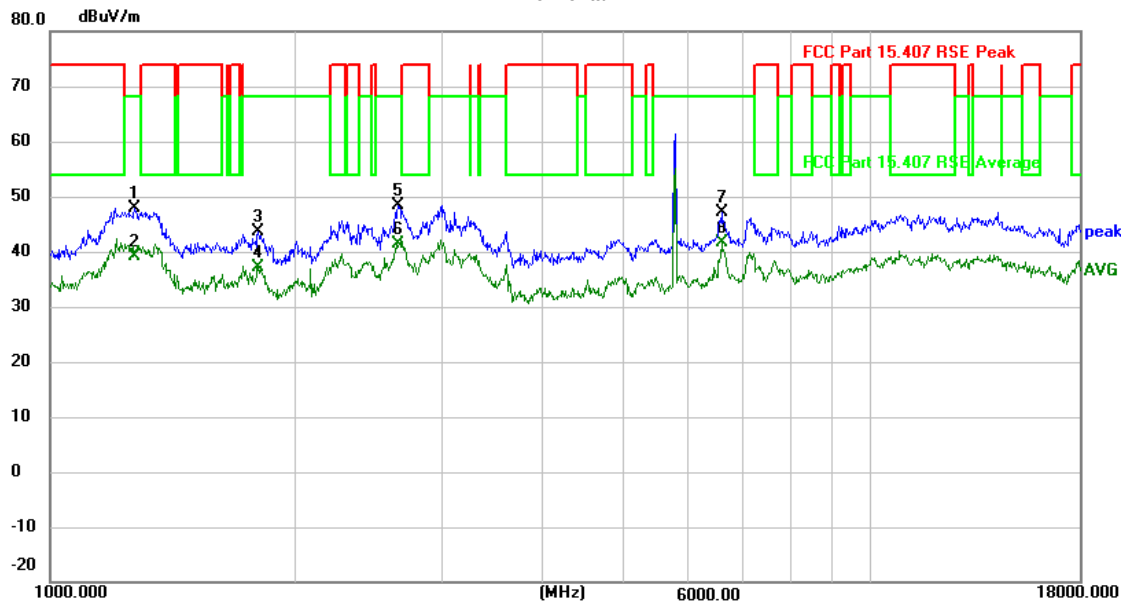
Low Channel (5745 MHz)-Above 1G
Vertical



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1350.625	71.26	-23.92	47.34	74.00	-26.66	peak
1350.625	65.12	-23.92	41.20	54.00	-12.80	AVG
2052.725	66.05	-18.86	47.19	68.20	-21.01	peak
2052.725	59.62	-18.86	40.76	68.20	-27.44	AVG
2668.125	65.59	-17.44	48.15	68.20	-20.05	peak
2668.125	58.14	-17.44	40.70	68.20	-27.50	AVG
6628.700	57.99	-9.47	48.52	68.20	-19.68	peak
6628.700	50.75	-9.47	41.28	68.20	-26.92	AVG

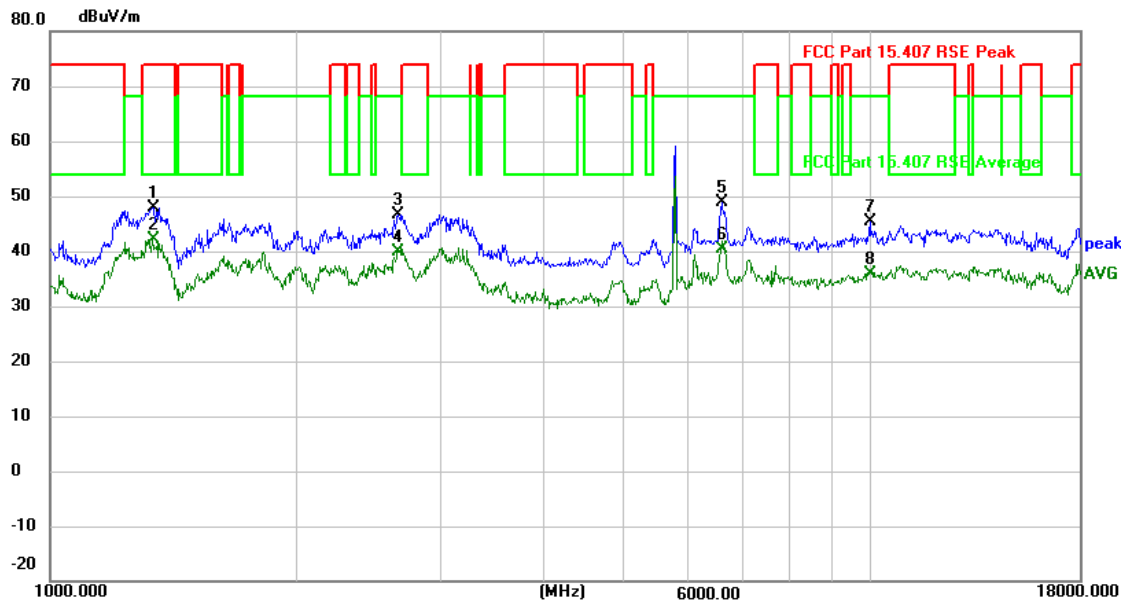
Mid Channel (5785 MHz)-Above 1G
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1270.300	71.66	-23.86	47.80	68.20	-20.40	peak
1270.300	63.10	-23.86	39.24	68.20	-28.96	AVG
1793.900	66.15	-22.43	43.72	68.20	-24.48	peak
1793.900	59.51	-22.43	37.08	68.20	-31.12	AVG
2662.600	65.85	-17.47	48.38	68.20	-19.85	peak
2662.600	58.73	-17.47	41.26	68.20	-26.94	AVG
6590.875	56.28	-9.27	47.01	68.20	-21.19	peak
6590.875	50.82	-9.27	41.55	68.20	-26.65	AVG

Mid Channel (5785 MHz)-Above 1G
Vertical

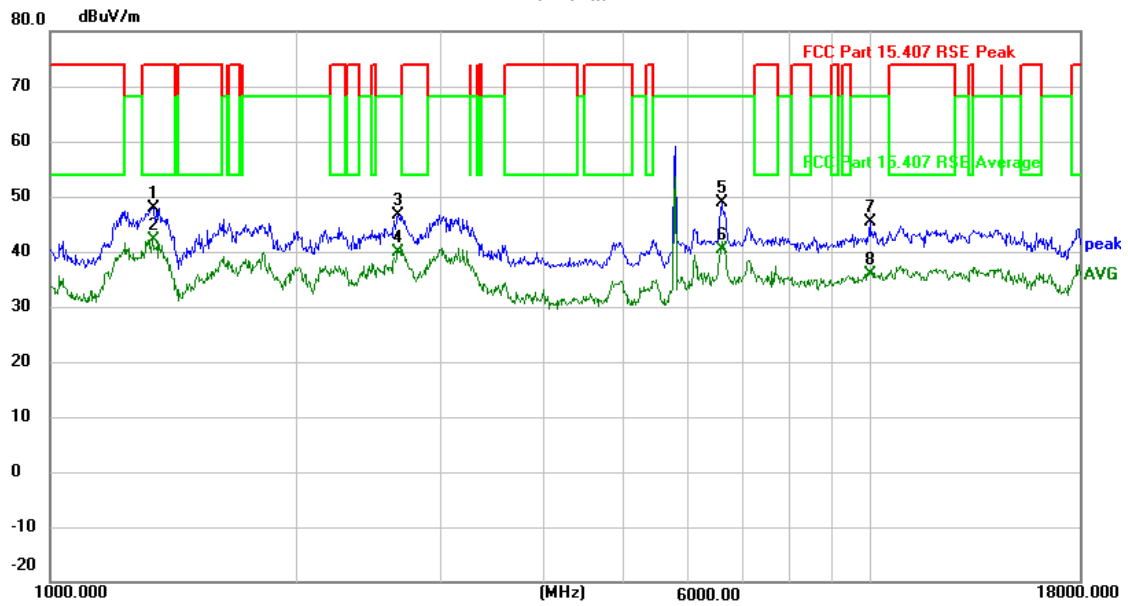


Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1337.875	71.87	-23.91	47.96	74.00	-26.04	peak
1337.875	66.15	-23.91	42.24	54.00	-11.76	AVG
2657.925	64.13	-17.50	46.63	68.20	-21.57	peak
2657.925	57.29	-17.50	39.79	68.20	-28.41	AVG
6597.675	58.09	-9.25	48.84	68.20	-19.36	peak
6587.675	49.51	-9.25	40.26	68.20	-27.94	AVG
9982.375	50.41	-4.92	45.49	68.20	-22.71	peak
9982.375	40.74	-4.92	35.82	68.20	-32.38	AVG

High Channel (5825 MHz)-Above 1G

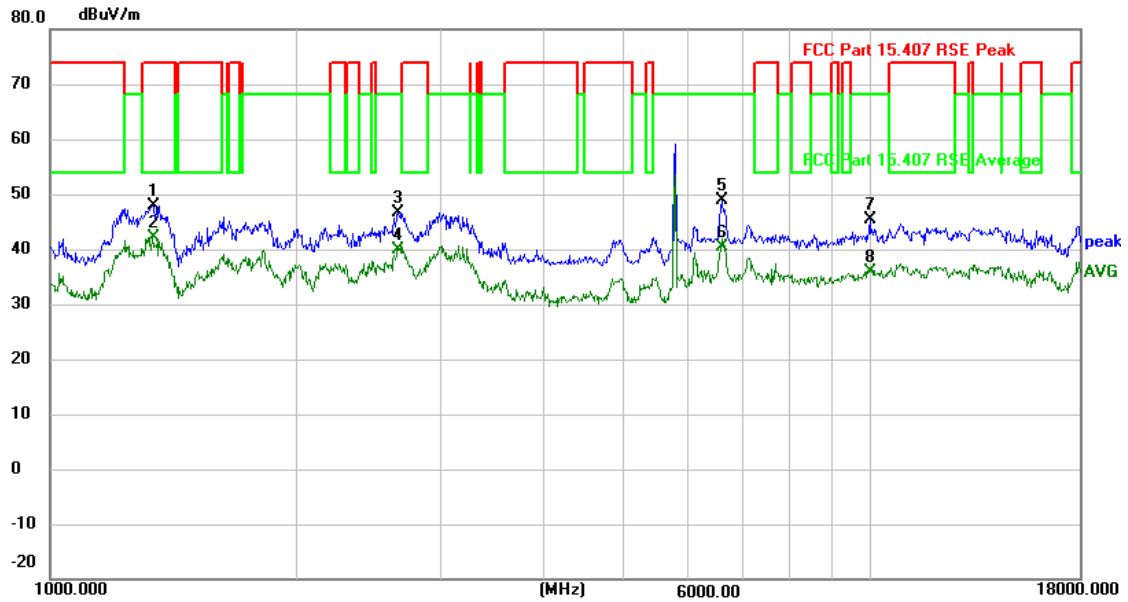
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1337.875	71.87	-23.91	47.96	74.00	-26.04	peak
1337.875	66.15	-23.91	42.24	54.00	-11.76	AVG
2657.925	64.13	-17.50	46.63	68.20	-21.57	peak
2657.925	57.29	-17.50	39.79	68.20	-28.41	AVG
6597.675	58.09	-9.25	48.84	68.20	-19.36	peak
6597.675	49.51	-9.25	40.26	68.20	-27.94	AVG
9982.375	50.41	-4.92	45.49	68.20	-22.71	peak
9982.375	40.74	-4.92	35.82	68.20	-32.38	AVG

High Channel (5825 MHz)-Above 1G
Vertical



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1337.875	71.87	-23.91	47.96	74.00	-26.04	peak
1337.875	66.15	-23.91	42.24	54.00	-11.76	AVG
2657.925	64.13	-17.50	46.63	68.20	-21.57	peak
2657.925	57.29	-17.50	39.79	68.20	-28.41	AVG
6597.675	58.09	-9.25	48.84	68.20	-19.36	peak
6597.675	49.51	-9.25	40.26	68.20	-27.94	AVG
9982.375	50.41	-4.92	45.49	68.20	-22.71	peak
9982.375	40.74	-49.2	35.82	68.20	-3	AVG

Note: "SISO 802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

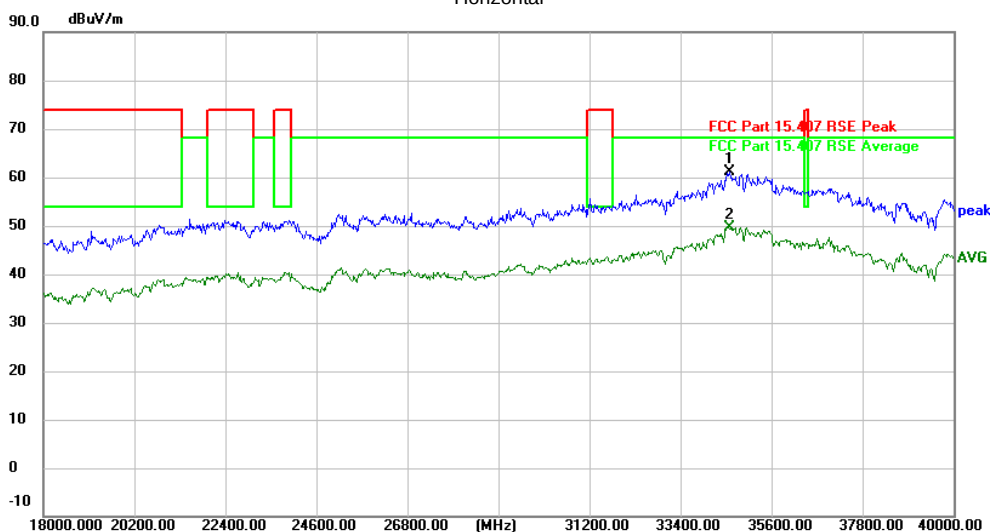
3.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz, TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G

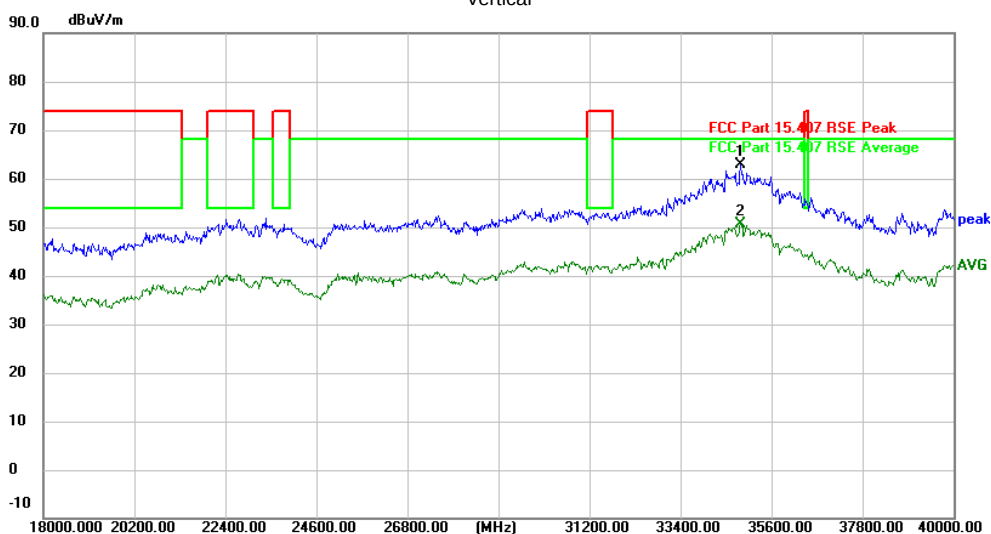
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34604.867	58.50	2.73	61.23	68.20	-6.97	peak
34604.867	46.88	2.73	49.61	68.20	-18.59	AVG

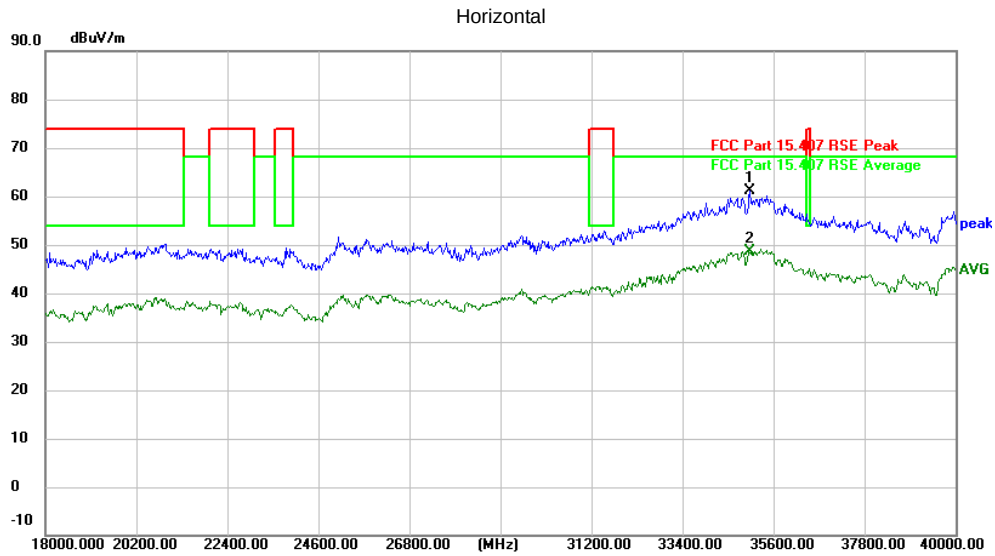
Vertical



Measurement Result:

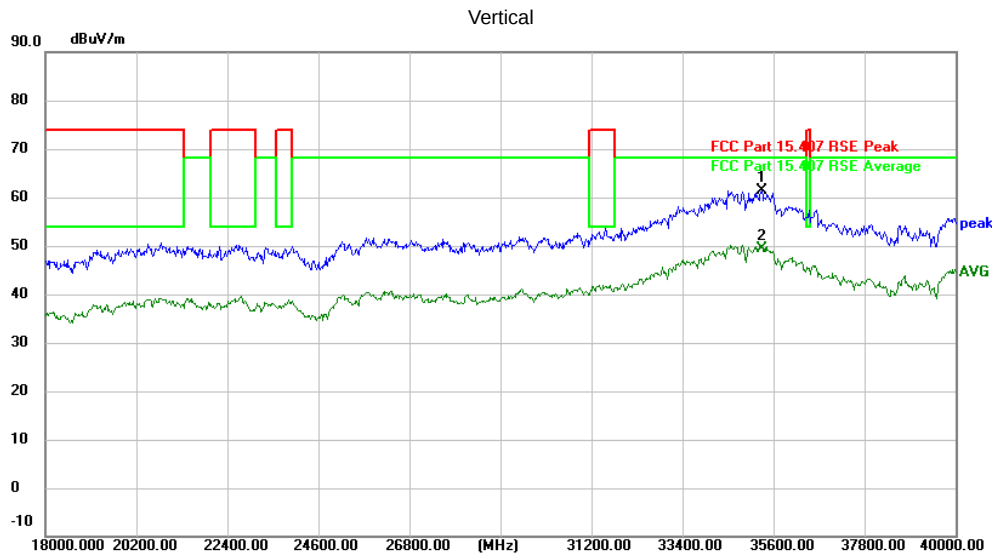
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34869.600	59.40	3.40	62.80	68.20	-5.40	peak
34869.600	47.18	3.40	50.58	68.20	-17.62	AVG

High Channel (5240 MHz)-Above 1G



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35036.800	57.44	3.66	61.10	68.20	-7.10	peak
35036.800	44.91	3.66	48.57	68.20	-19.63	AVG

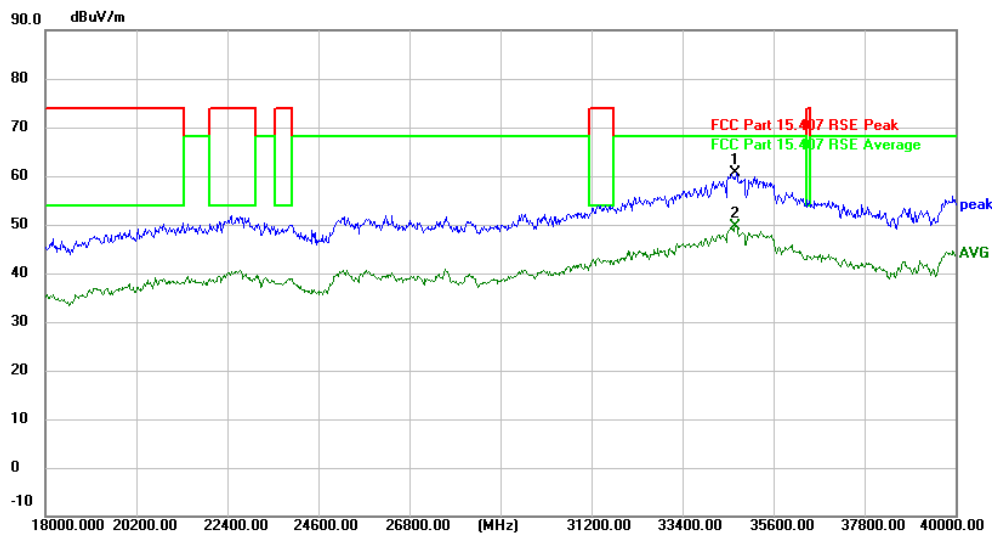


Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35322.800	58.59	2.82	61.41	68.20	-6.79	peak
35322.800	46.59	2.82	49.41	68.20	-18.79	AVG

Low Channel (5745 MHz)-Above 1G

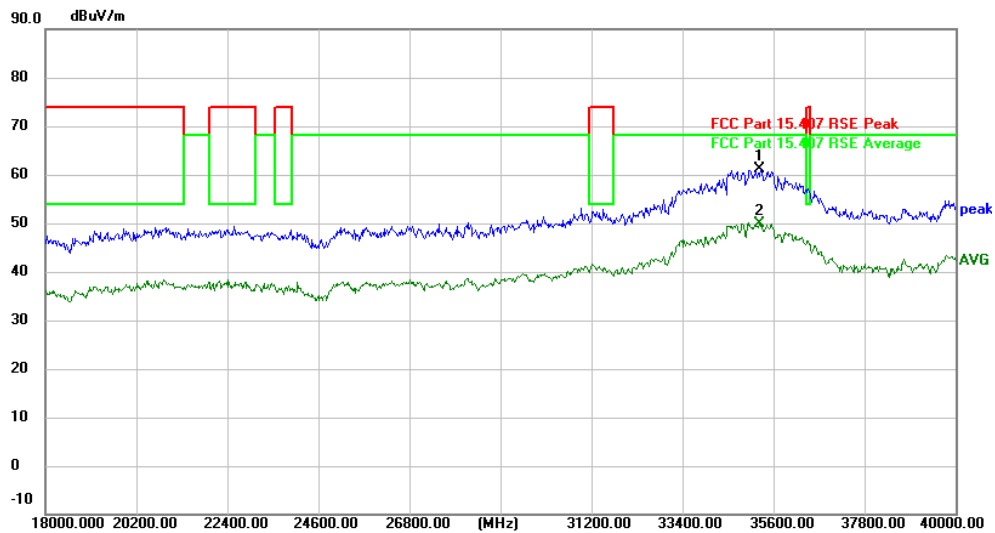
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34722.933	57.60	2.99	60.59	68.20	-7.61	peak
34722.933	46.55	2.99	49.54	68.20	-18.66	AVG

Vertical

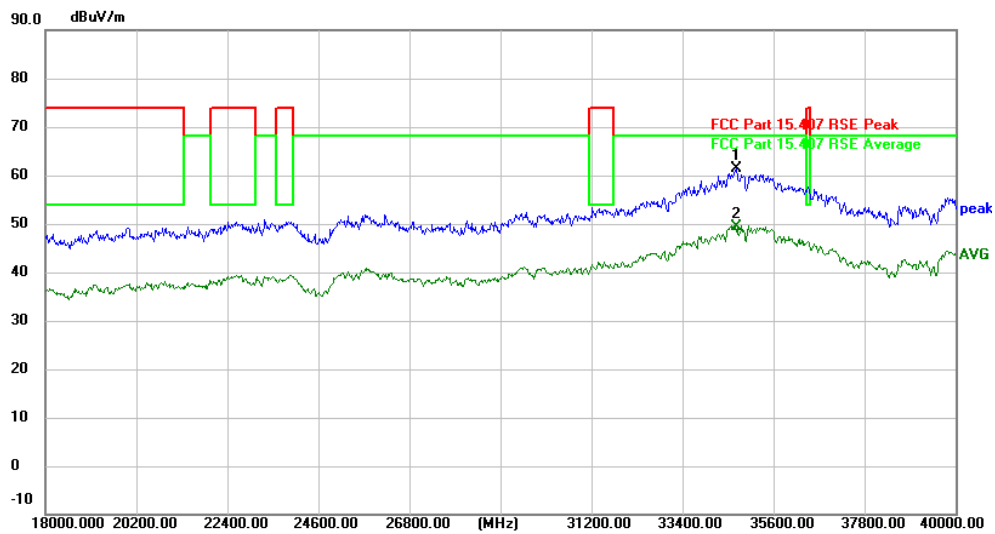


Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
35314.733	58.31	2.83	61.14	68.20	-7.06	peak
35314.733	46.98	2.83	49.81	68.20	-18.39	AVG

High Channel (5825 MHz)-Above 1G

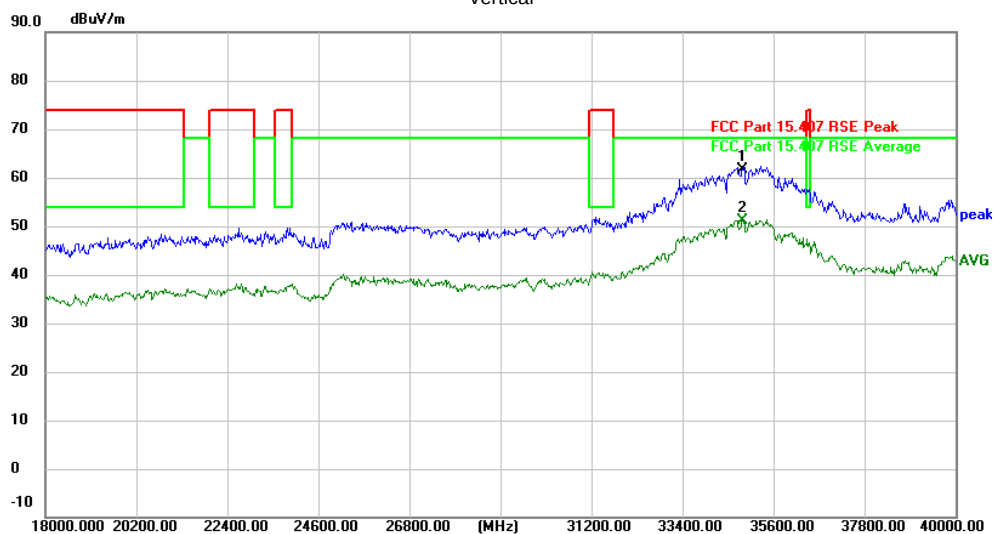
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34717.067	58.40	2.97	61.37	68.20	-6.83	peak
34717.067	46.53	2.97	49.50	68.20	-18.70	AVG

Vertical



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
34869.600	58.33	3.40	61.73	68.20	-6.47	peak
34869.600	47.66	3.40	51.06	68.20	-17.14	AVG

3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

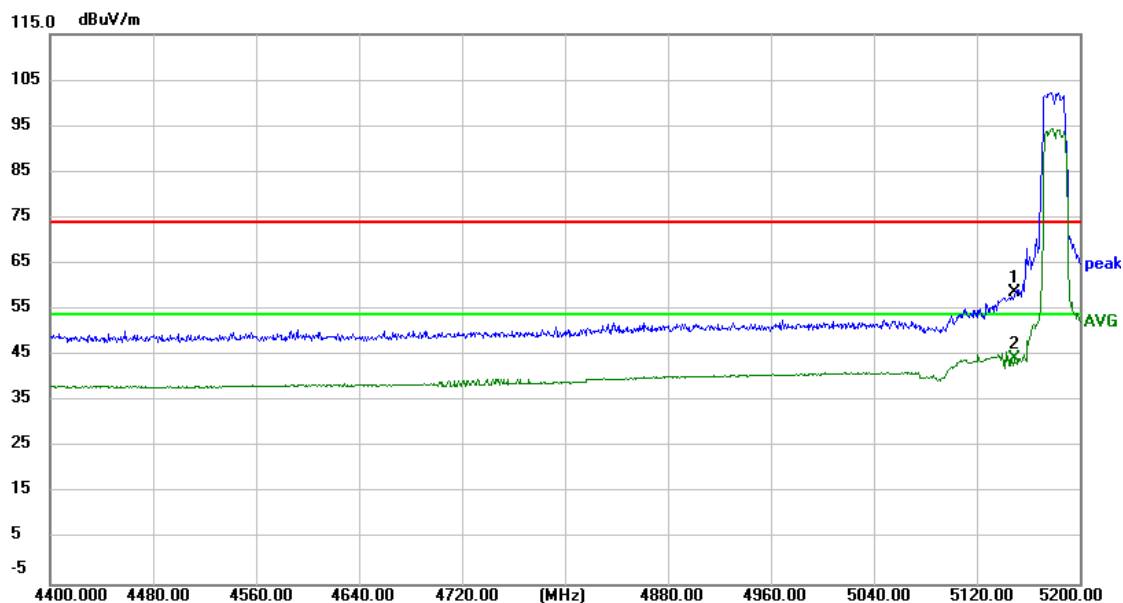
EUT :	ePaper Table PC, Smart Eink Table, Color Eink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.2G)-802.11a 5150MHz~5250MHz,		

All the modulation modes have been tested, the report just record the worst data mode.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150.000	56.45	2.22	58.67	74.00	-15.33	peak
H	5150.000	42.08	2.22	44.30	54.00	-9.70	AVG

Remark:

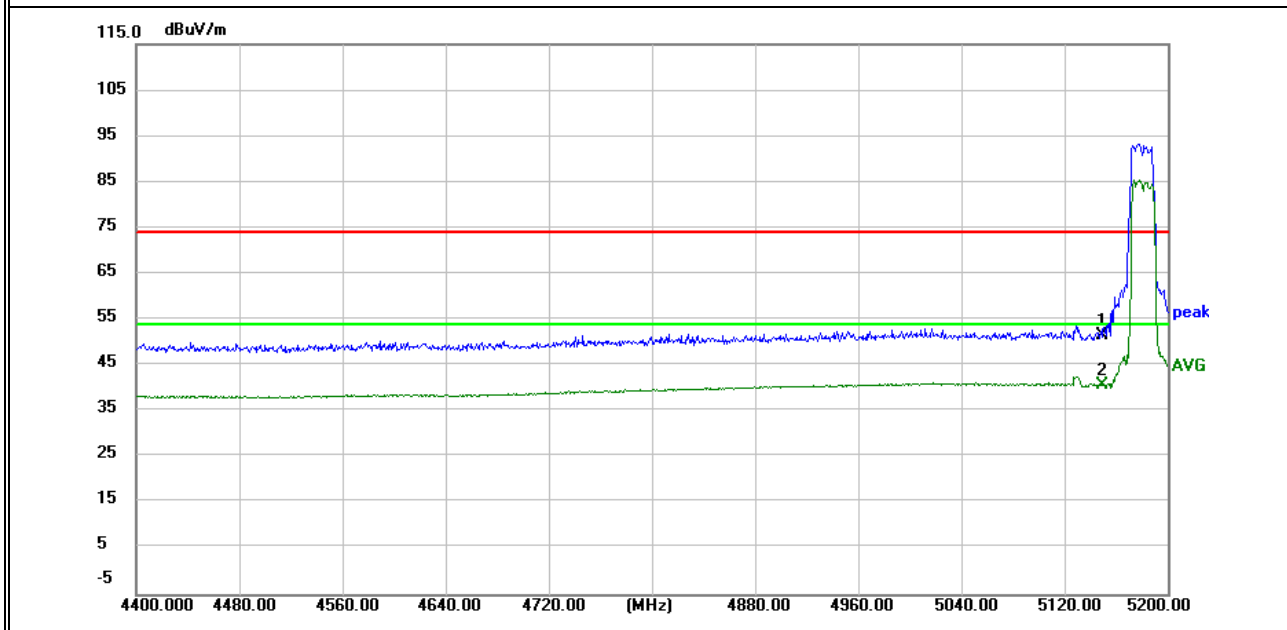
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
V	5150.000	49.23	2.22	51.45	74.00	-22.55	peak
V	5150.000	38.68	2.22	40.90	54.00	-13.10	AVG

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit

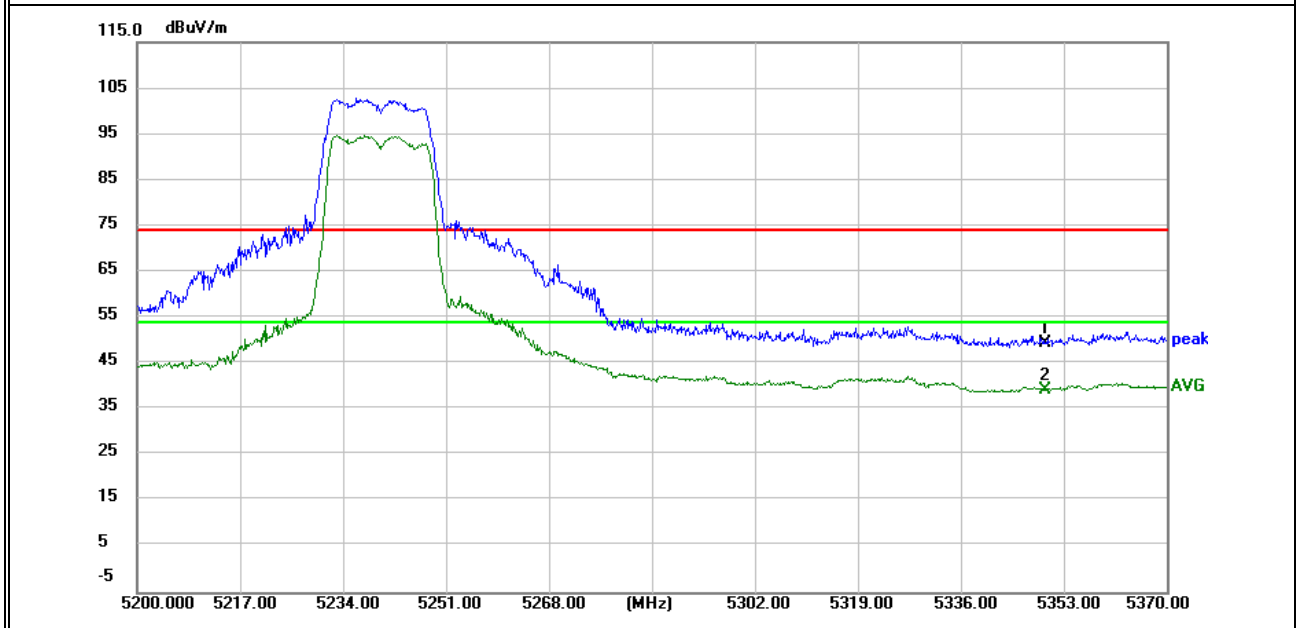


Note: (1) "802.11a 5180MHz " mode is the worst mode.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5350.000	47.14	2.21	49.35	74.00	-24.65	peak
H	5350.000	37.16	2.21	39.37	54.00	-14.63	AVG

Remark:

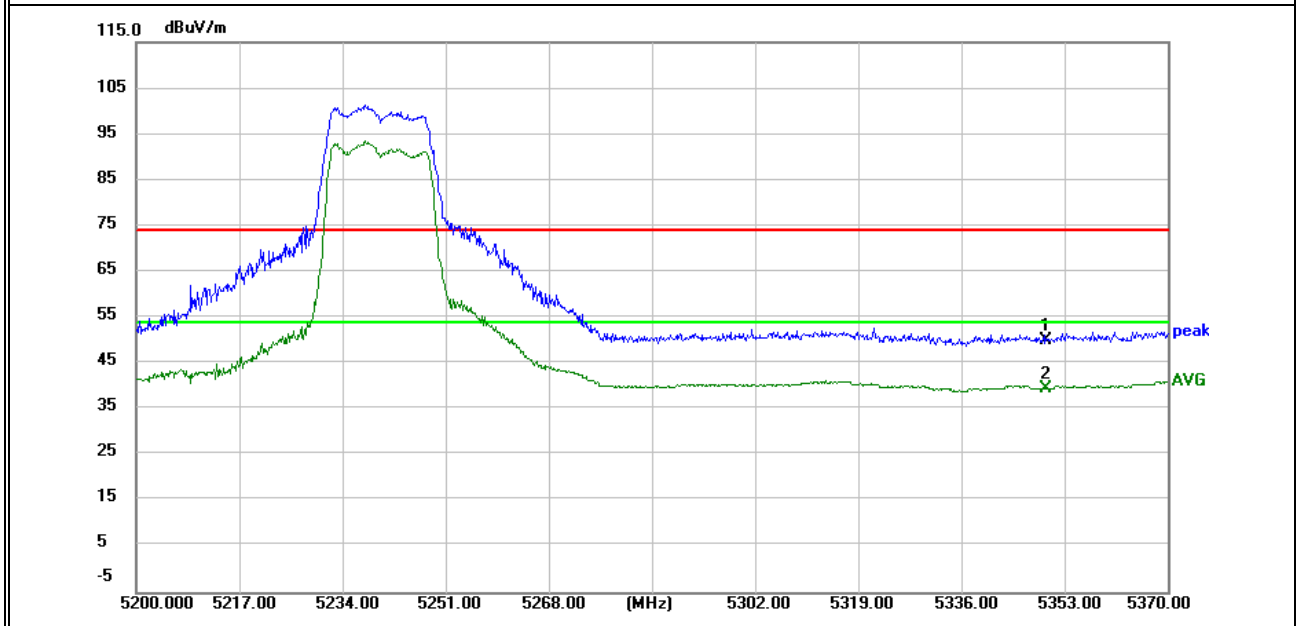
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5350.000	47.70	2.21	49.91	74.00	-24.09	peak
V	5350.000	37.24	2.21	39.45	54.00	-14.55	AVG

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Note: (1) "802.11a 5240MHz " mode is the worst mode.

B.2.11 Spurious Emission in-Band 5.725GHz~5.850 GHz

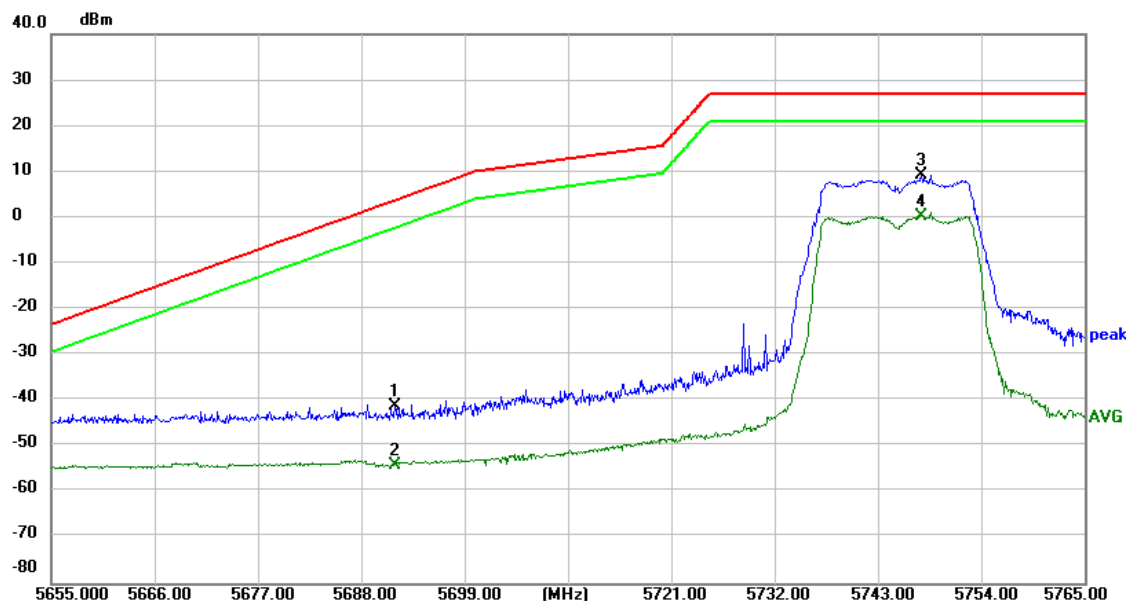
EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, the report just record the worst data mode.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5691.520	-55.82	14.64	-41.18	3.75	-44.93	peak
H	5691.520	-68.80	14.64	-54.16	3.75	-57.91	AVG
H	5747.620	-5.56	14.88	9.32	27.00	-17.68	peak
H	5747.620	-14.73	14.88	0.15	27.00	-26.85	AVG

Remark:

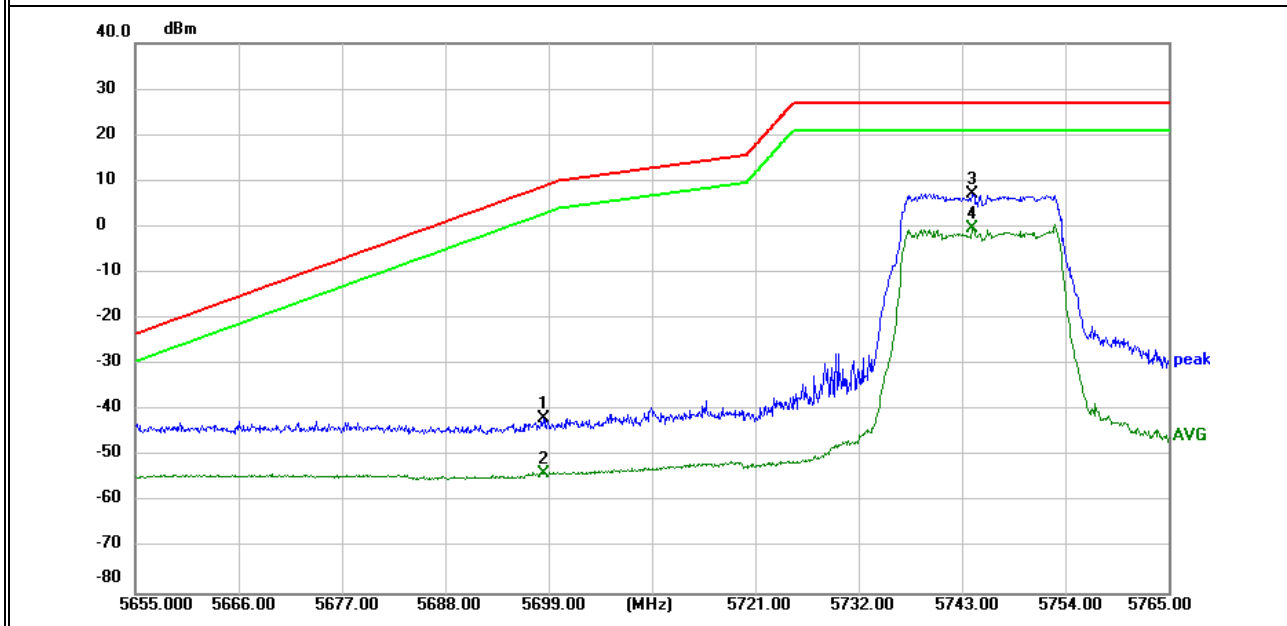
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5698.450	-56.38	14.66	-41.72	8.86	-50.58	peak
V	5698.450	-68.46	14.66	-53.80	8.86	-62.66	AVG
V	5744.100	-7.74	14.87	7.13	27.00	-19.87	peak
V	5744.100	-15.17	14.87	-0.30	27.00	-27.30	AVG

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit

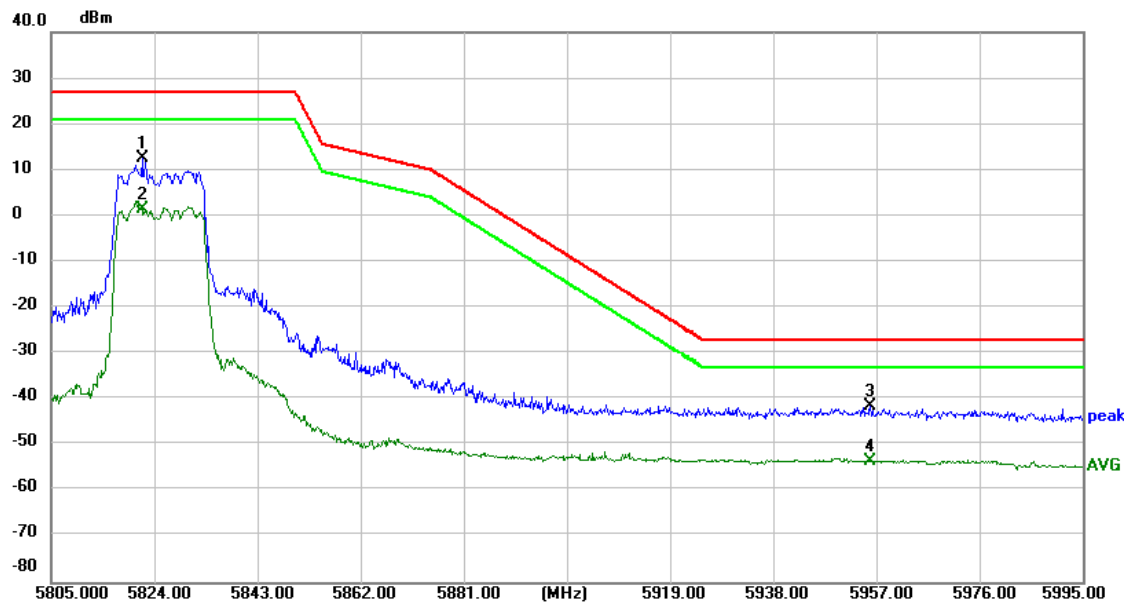


Note: (1) "802.11a 5745MHz " mode is the worst mode.

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5821.720	-2.61	15.17	12.56	27.00	-14.44	peak
H	5821.720	-13.61	15.17	1.56	27.00	-25.44	AVG
H	5955.860	-56.76	15.40	-41.36	-27.00	-14.36	peak
H	5955.860	-68.81	15.40	-53.41	-27.00	-26.41	AVG

Remark:

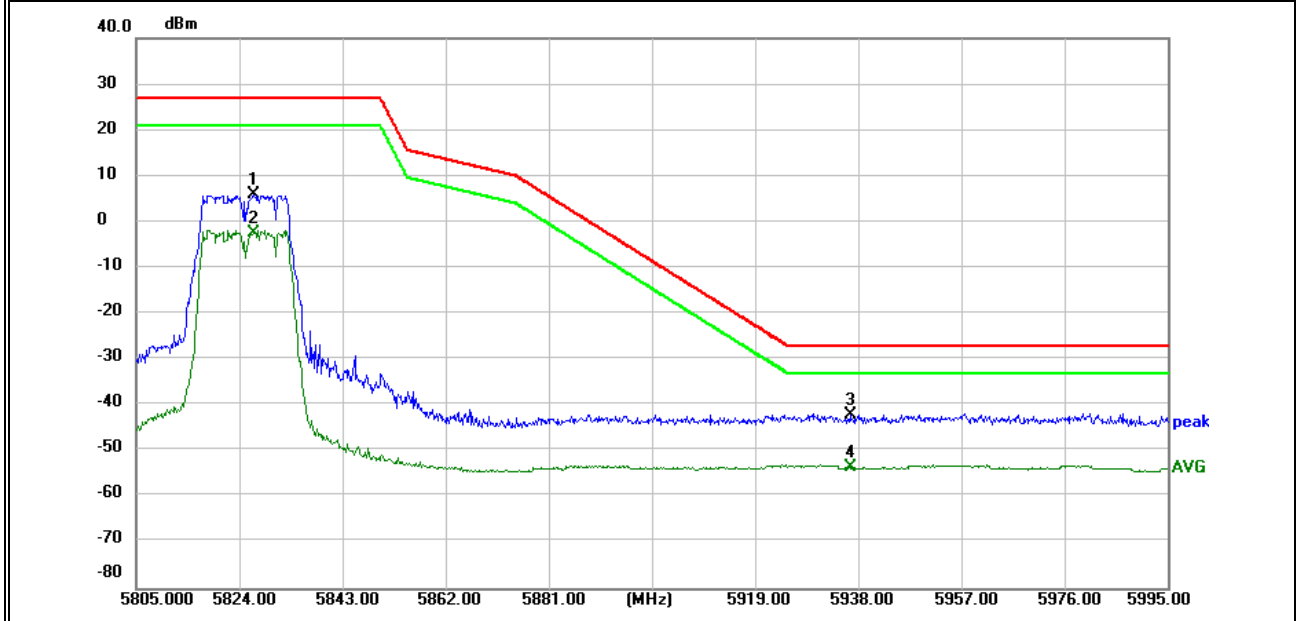
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5826.660	-9.36	15.18	5.82	27.00	-21.18	peak
V	5826.660	-17.70	15.18	-2.52	27.00	-29.52	AVG
V	5936.480	-57.36	15.38	-41.98	-27.00	-14.98	peak
V	5936.480	-68.92	15.38	-53.54	-27.00	-26.54	AVG

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Note: (1) "802.11a 5240MHz " mode is the worst mode.

3.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

,

3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.6 TEST RESULTS

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

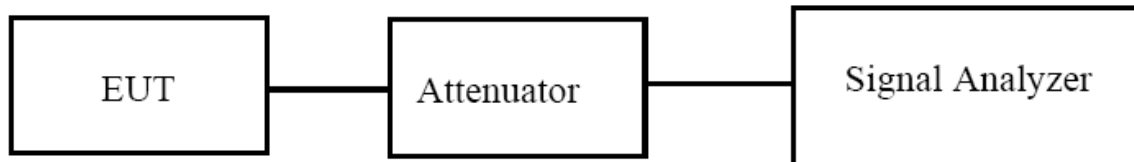
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST RESULTS

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

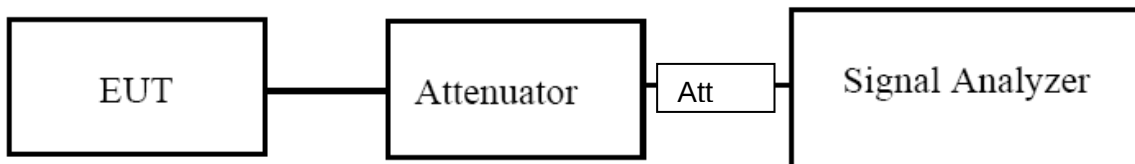
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.5.6 TEST RESULTS

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)		

Test data reference attachment.

3.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

3.6.2 TEST PROCEDURE

- Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.¹ However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

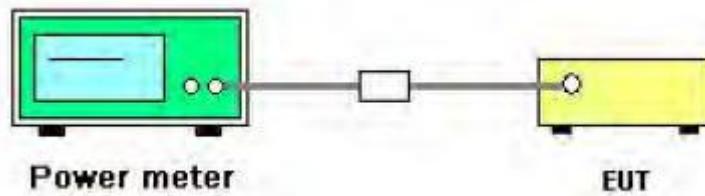
(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

3.6.3 DEVIATION FROM STANDARD

No deviation.

3.6.4 TEST SETUP



3.6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6.6 TEST RESULTS

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)		

Test data reference attachment.

3.7 FREQUENCY STABILITY MEASUREMENT

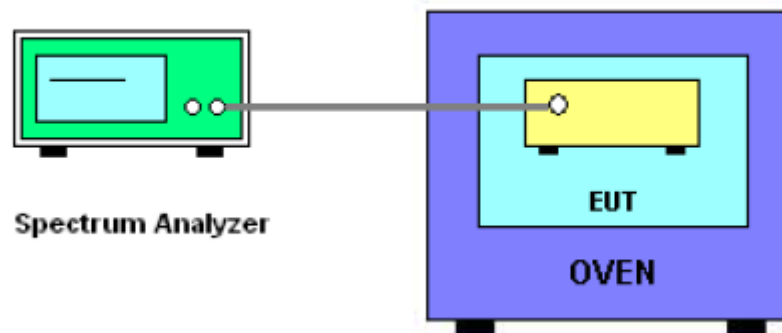
3.7.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.7.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6 \text{ ppm}$.
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

3.7.3 TEST SETUP LAYOUT



3.7.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

3.9.5 TEST RESULTS

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5180.0096	5180	0.0096	1.8454
		V max (V)	4.37	5180.0076	5180	0.0076	1.4681
		V min (V)	3.23	5180.0003	5180	0.0003	0.0504
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5180.0011	5180	0.0011	0.2050
		T (°C)	-10	5180.0027	5180	0.0027	0.5183
		T (°C)	0	5180.0066	5180	0.0066	1.2741
		T (°C)	10	5180.0016	5180	0.0016	0.3170
		T (°C)	20	5180.0032	5180	0.0032	0.6143
		T (°C)	30	5180.0030	5180	0.0030	0.5790
		T (°C)	40	5180.0098	5180	0.0098	1.8979
		T (°C)	50	5180.0091	5180	0.0091	1.7658
		T (°C)	60	5180.0064	5180	0.0064	1.2445
		T (°C)	70	5180.0035	5180	0.0035	0.6691
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5200.0001	5200	0.0001	0.0215
		V max (V)	4.37	5200.0083	5200	0.0083	1.5873
		V min (V)	3.23	5200.0092	5200	0.0092	1.7764
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5200.0058	5200	0.0058	1.1106
		T (°C)	-10	5200.0043	5200	0.0043	0.8263
		T (°C)	0	5200.0037	5200	0.0037	0.7054
		T (°C)	10	5200.0044	5200	0.0044	0.8496
		T (°C)	20	5200.0078	5200	0.0078	1.4980
		T (°C)	30	5200.0073	5200	0.0073	1.4125
		T (°C)	40	5200.0062	5200	0.0062	1.1874
		T (°C)	50	5200.0078	5200	0.0078	1.5086
		T (°C)	60	5200.0016	5200	0.0016	0.3017
		T (°C)	70	5200.0091	5200	0.0091	1.7514
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5240.0038	5240	0.0038	0.7250
		V max (V)	4.37	5240.0007	5240	0.0007	0.1284
		V min (V)	3.23	5240.0093	5240	0.0093	1.7807
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5240.0061	5240	0.0061	1.1609
		T (°C)	-10	5240.0062	5240	0.0062	1.1790
		T (°C)	0	5240.0066	5240	0.0066	1.2564
		T (°C)	10	5240.0086	5240	0.0086	1.6342
		T (°C)	20	5240.0081	5240	0.0081	1.5368
		T (°C)	30	5240.0003	5240	0.0003	0.0581
		T (°C)	40	5240.0080	5240	0.0080	1.5195
		T (°C)	50	5240.0008	5240	0.0008	0.1568
		T (°C)	60	5240.0052	5240	0.0052	0.9874
		T (°C)	70	5240.0055	5240	0.0055	1.0459
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	ePaper Table PC, Smart E Ink Table, Color E Ink Table, Color ePaper Table, Note-Taking Table, Digital Writing Table	Model Name. :	SM10D-AKDC
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Frequency(5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5745.0087	5745	0.0087	1.5179
		V max (V)	4.37	5745.0018	5745	0.0018	0.3135
		V min (V)	3.23	5745.0093	5745	0.0093	1.6237
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5745.0043	5745	0.0043	0.7421
		T (°C)	-10	5745.0065	5745	0.0065	1.1401
		T (°C)	0	5745.0001	5745	0.0001	0.0144
		T (°C)	10	5745.0010	5745	0.0010	0.1782
		T (°C)	20	5745.0060	5745	0.0060	1.0519
		T (°C)	30	5745.0089	5745	0.0089	1.5422
		T (°C)	40	5745.0079	5745	0.0079	1.3763
		T (°C)	50	5745.0003	5745	0.0003	0.0459
		T (°C)	60	5745.0021	5745	0.0021	0.3633
		T (°C)	70	5745.0048	5745	0.0048	0.8411
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

Page V01 Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5785.0010	5785	0.00098	-0.1693
		V max (V)	4.37	5785.0051	5785	0.00513	-0.8876
		V min (V)	3.23	5785.0044	5785	0.00445	-0.7690
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5785.0047	5785	0.0047	0.8187
		T (°C)	-10	5785.0056	5785	0.0056	0.9651
		T (°C)	0	5785.0002	5785	0.0002	0.0310
		T (°C)	10	5785.0043	5785	0.0043	0.7469
		T (°C)	20	5785.0086	5785	0.0086	1.4829
		T (°C)	30	5785.0061	5785	0.0061	1.0508
		T (°C)	40	5785.0093	5785	0.0093	1.6058
		T (°C)	50	5785.0074	5785	0.0074	1.2740
		T (°C)	60	5785.0002	5785	0.0002	0.0304
		T (°C)	70	5785.0068	5785	0.0068	1.1787
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.80	5825.0004	5825	0.0004	0.0672
		V max (V)	4.37	5825.0034	5825	0.0034	0.5804
		V min (V)	3.23	5825.0023	5825	0.0023	0.3894
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5825.0059	5825	0.0059	1.0156
		T (°C)	-10	5825.0033	5825	0.0033	0.5611
		T (°C)	0	5825.0055	5825	0.0055	0.9402
		T (°C)	10	5825.0000	5825	0.0000	0.0072
		T (°C)	20	5825.0083	5825	0.0083	1.4324
		T (°C)	30	5825.0023	5825	0.0023	0.3924
		T (°C)	40	5825.0056	5825	0.0056	0.9557
		T (°C)	50	5825.0070	5825	0.0070	1.1960
		T (°C)	60	5825.0083	5825	0.0083	1.4304
		T (°C)	70	5825.0027	5825	0.0027	0.4596
Limits				Within 5745-5850MHz			
Result				Complies			

4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

4.2 EUT ANTENNA

The EUT antenna is permanent attached FPC Antenna (antenna gain: 0.6dBi(5.2G); 1.43dBi(5.8G)). It comply with the standard requirement.

END OF REPORT