DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Test report No:
24C0528R-RF-US-P06V02

FCC&ISED TEST REPORT

Product Name	Xiaomi TV Box S
Trademark	XIAOMI;Xiaomi;
Model and /or type reference	MDZ-32-AA
FCC ID	2AIMR-MDZ32AA
IC	25940-MDZ32AA
Applicant´s name / address	Beijing Xiaomi Electronics Co., Ltd Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing City, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2013 RSS-Gen Issue 5 RSS-247 Issue 3
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao / Project Manager
Approved by (name / position & signature)	Frank He / Technical Manager
Date of issue	2025-03-19
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Dec. 16, 2024
Date (start test)	Dec. 16, 2024
Date (finish test)	Feb. 17, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
24C0528R-RF-US-P06V02	V1.0	Initial issue of report.	2025-03-19

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is a limited report on the installation of a test module in a Xiaomi TV Box S, and the customer declares that the RF parameters of the module installed in the host computer are exactly the same as those of the certified module. We verified the RF output power and radiated emissions of the equipment. For other test data, please refer to FCC ID: 2AATL-K265B-UU, IC: 12425A-K265BUU.These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247), RSS-247 Issue 3.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
   - Chapter 1.1 General Description of the Item(s);
   - Chapter 1.2 Antenna Information;
   - Chapter 1.3Channel List.

USED EQUIPMENT

Test Location A: Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2024.05.17	2025.05.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2024.10.26	2025.10.25	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test Location A: AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100726	2024.07.06	2025.07.05	4.42 SP1	N/A
Two-Line V-Network	R&S	ENV 216	101044	2024.10.26	2025.10.25	N/A	N/A
Two-Line V-Network	R&S	ENV 216	101189	2024.07.06	2025.07.05	N/A	N/A
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2024.07.06	2025.07.05	N/A	N/A
Coaxial Cable	Huber+Suhner	RG 223	TR1-C1	2024.07.06	2025.07.05	N/A	N/A
Impedance Stabilization Network	Teseq GmbH	ISN T800	57318	2024.12.20	2025.12.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-011	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	N/A

Test Location A: Radiated Emission (9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.04.27	2025.04.26	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test Location B: Radiated Emission (1GHz-40GHz) / AC103

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Signal analyzer	keysight	N9020B	MY63490118	2024.07.26	2025.07.25	A 08.54	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2024.11.23	2025.11.22	N/A	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2024.11.02	2025.11.01	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2024.10.28	2025.10.27	N/A	N/A
Amplifier	ESE	LNA0118	LNA23100009	2024.08.10	2025.08.09	N/A	N/A
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2024.11.16	2025.11.15	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.11.08	2025.11.07	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2024.11.20	2025.11.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	001	2024.05.23	2025.05.22	N/A	N/A
Test Software	Tonscend	JS36	N/A	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document.The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.The Uncertainties is complice with standard required as below.

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~300MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~26.5GHz: 5.30 dB Vertical: 18GHz~26.5GHz: 4.90 dB
20dB Bandwidth	± 1 kHz
Carrier Frequency Separation	± 1 kHz
Number of Hopping Frequencies	± 1 kHz
Time of Occupancy (Dwell Time)	± 0.1 us
Peak OutputPower	± 1.27 dB
Emissions in non-restricted frequency bands	± 1.0 dB
Radiated Emission Band Edge	± 3.9 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 4.86 dB 300MHz~1GHz: 4.86 dB Vertical: 30MHz~300MHz: 4.92 dB 300MHz~1GHz: 4.92 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.99 dB Vertical: 1GHz~18GHz: 5.76 dB Horizontal: 18GHz~26.5GHz: 5.99 dB Vertical: 18GHz~26.5GHz: 5.76 dB
Radiated Emission Band Edge	± 5.99 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name ..... :	Xiaomi TV Box S
Model No. ..... :	MDZ-32-AA
Trademark. ..... :	XIAOMI;Xiaomi;
FCC ID ..... :	2AIMR-MDZ32AA
IC ..... :	25940-MDZ32AA
Hardware Version ..... :	DKTB-OB1A-905X5M-AD
Software Version ..... :	V816.0.25.2.10.UZFAABX
Manufacturer ..... :	Beijing Xiaomi Electronics Co., Ltd
Manufacturer Address ..... :	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing City, China
Factory ..... :	Nanchang Qinsheng Electronic Technology CO.,LTD
Factory address..... :	No.638,Hangkongcheng Avenue,Nanchang Hi-tech Development Zone,Nanchang City, Jiangxi Province
Operating temperature ..... :	0 ~ +40 ℃

Wireless Card ..... :	K265B-UU					
Wireless specification..... :	Bluetooth (BR/EDR)					
Operating frequency range(s) ..... :	2402~2480MHz					
Type of Modulation..... :	GFSK					
PHYs ..... :	☒	GFSK	☒	Pi/4 DQPSK	☒	8DPSK
Data Rate ..... :	☒	1Mbit/s	☒	2Mbit/s	☒	3Mbit/s
Number of channel..... :	79					

Rated power supply ..... :	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☒	AC: 100 - 240 V, 50/60 Hz 0.3A
	☒	DC: 5.2 Vdc, 2.1 A
	☐	Battery:
	☒	Adapter:
Adapter model No ..... :	AD-0100520210US-1	
INPUT..... :	100 - 240 V, 50/60 Hz 0.3 A	
OUTPUT..... :	5.2 V, 2.1 A	
Mounting position ..... :	☒	Tabletop equipment
	☐	Wall mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Portable equipment
	☐	Other:

1.2 Antenna Information

Antenna Delivery ..... :	☒	1TX + 1RX		
	☐	2TX + 2RX		
	☐	Others:……		
Antenna technology ..... :	☒	SISO		
	☐	MIMO	☐	CDD
			☐	Beam-forming
Antenna Type ..... :	☐	External	☐	Dipole
			☐	Sectorized
	☒	Internal	☐	Ceramic Chip
			☐	PIFA
			☒	PCB
			☐	Others……..
Antenna Gain ..... :	Wireless specification		Frequency range (MHz)	Gain (dBi)
	Bluetooth		2402~2480	0.96

1.3 Channel List

Bluetooth Working Frequency of Each Channel: (For FHSS)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A

Note: The general description of the Item(s), antenna information and channel list in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmitter-1Mbps(GFSK_DH5)
	Mode 2: Transmitter-2Mbps(Pi/4 DQPSK_DH5)
	Mode 3: Transmitter-3Mbps(8DPSK_DH5)
	Mode 4: Transmitter-Hopping-1Mbps(GFSK_DH5)
	Mode 5: Transmitter-Hopping-2Mbps(Pi/4 DQPSK_DH5)
	Mode 6: Transmitter-Hopping-3Mbps(8DPSK_DH5)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

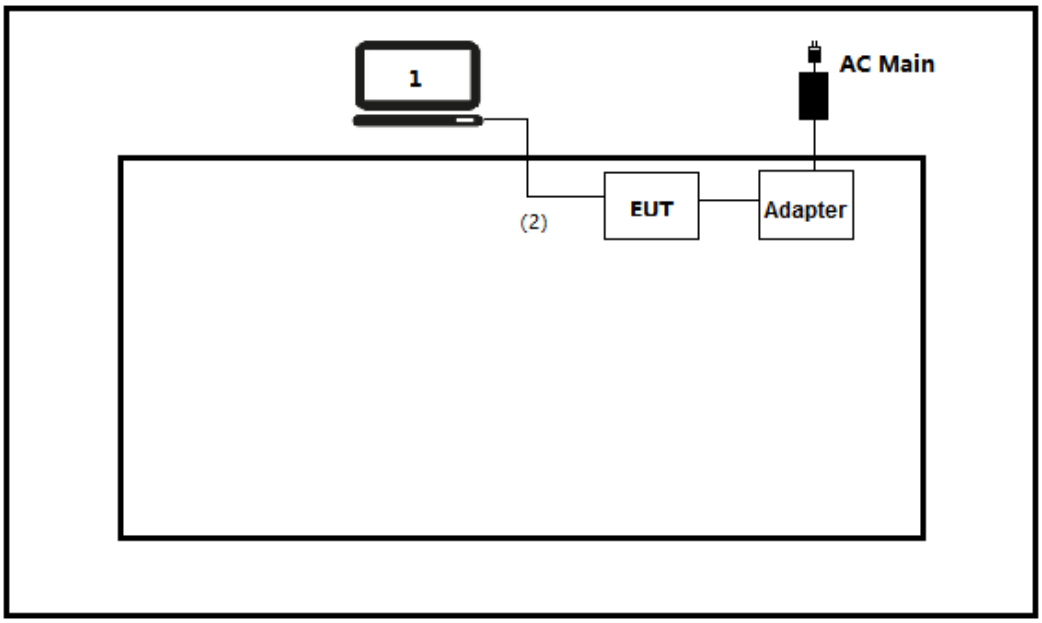
2.2 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) USB Control Cable	N/A	N/A	N/A
(2) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

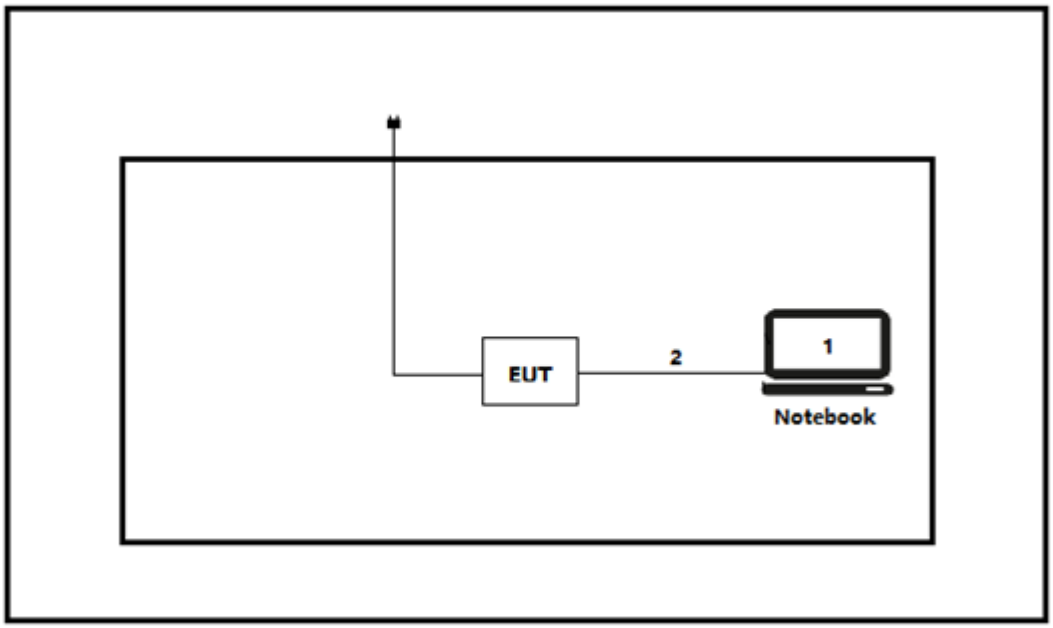
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

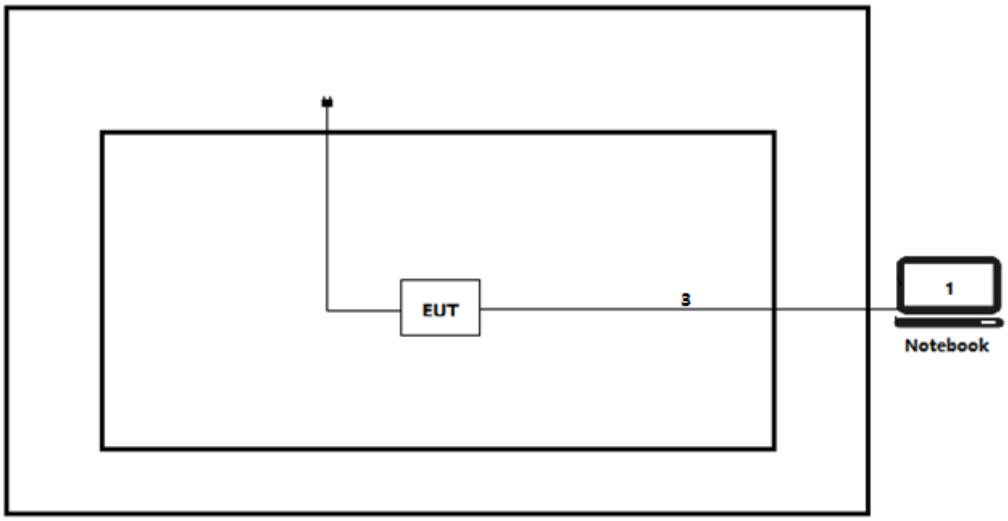
Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Conducted test



Test setup Diagram- Radiated Emission



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Enter launch execution on the dial screen.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz.
ANSI C63.10	2013	American National Standard ofProcedures for Compliance Testing ofUnlicensed Wireless Devices
RSS-Gen Issue 5 Amendment 2	2021	General Requirements forCompliance of Radio Apparatus
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSs),Frequency Hopping Systems (FHSs)and Licence-Exempt Local Area Network(LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Test Item	FCC Rule No.	Test Method	Result
Antenna Requirement	15.203/15.247(b)	--	**See Remark**
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013) Section 6.2	**PASS**
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013) Section 11.9.2.3	**PASS**
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	**See Remark**
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.2	**See Remark**
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.3	**See Remark**
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013) Section 7.8.4	**See Remark**
Band-Edge	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.2	**PASS**
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013) Section 7.8.7.1	**See Remark**
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	**PASS**
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013) Section 7.8.8.3	**See Remark**

Remark:

Only the AC Power Line Conducted Emission and Conducted Peak Output and Band-Edge and Radiated Spurious were fully tested. These items please refer to the BR/EDR Module report FCCSZ2024-0019-RF3.

The FCC ID is 2AATL-K265B-UU has been certified, and the test report issued by CVC Testing Technology (Shenzhen) Co., Ltd. on 10/15/2024.

Test Item	IC Rule No.	Test Method	Result
Antenna Requirement	RSS-Gen 6.8	--	**See Remark**
AC Power Line Conducted Emission	RSS-Gen 8.8	ANSI C63.10 (2013) Section 6.2	**PASS**
Conducted Peak Output Power	RSS-247 5.4(b)	ANSI C63.10 (2013) Section 11.9.2.3	**PASS**
20dB Emission Bandwidth & 99% Occupied Bandwidth	RSS-247 5.1(b) RSS-247 5.1(d)	ANSI C63.10 (2013) Section 6.9.2/6.9.3	**See Remark**
Carrier Frequencies Separation	RSS-247 5.1(b)	ANSI C63.10 (2013) Section 7.8.2	**See Remark**
Hopping Channel Number	RSS-247 5.1(b)	ANSI C63.10 (2013) Section 7.8.3	**See Remark**
Dwell Time	RSS-247 5.1(d)	ANSI C63.10 (2013) Section 7.8.4	**See Remark**
Band-Edge	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 (2013) Section 7.8.7.2	**PASS**
RF Conducted Spurious Emissions	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 (2013) Section 7.8.7.1	**See Remark**
Radiated Spurious emissions	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 (2013) Section 6.4 / 6.5 / 6.6	**PASS**
Restricted bands around fundamental frequency (Radiated Emission)	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 (2013) Section 7.8.8.3	**See Remark**

Remark:
Only the AC Power Line Conducted Emission and Conducted Peak Output and Band-Edge and Radiated Spurious were fully tested. These items please refer to the BR/EDR Module report ISEDSZ2024-0018-RF3.

The IC is 12425A-K265BUU has been certified, and the test report issued by CVC Testing Technology (Shenzhen) Co., Ltd. on 10/15/2024.

Requirement – Test Item	Standard(s)	Verdict	Tset Location	Remark
Maximum Conducted Output Power	FCC 15.247(b)(1) RSS-247 5.4(d)	PASS	**A**	Test data please refer to **Appendix A**
Emissions in Restricted Bands	FCC 15.247(b)(3) RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	PASS	**B**	Test data please refer to **Appendix B**
Band edge measurements	FCC 15.247(d) RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	PASS	**B**	Test data please refer to **Appendix C**
AC Power Line Conducted Emission	FCC 15.207 RSS-Gen 8.8	PASS	**A**	Test data please refer to **Appendix D**

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power Setting
Mode 1	00	2402	0x62
	39	2441	0x4e
	78	2480	0x3c
Mode 2	00	2402	0x58
	39	2441	0x54
	78	2480	0x56
Mode 3	00	2402	0x5b
	39	2441	0x56
	78	2480	0x59

3.5 Test Matrix

Test item	Model : Xiaomi TV Box S	
	SN: 64065/700090000048(#1)	SN: 63597/700090000118(#2)
Maximum Conducted Output Power	☒	☐
Emissions in Restricted Bands	☐	☒
Band edge measurements	☐	☒
AC Power Line Conducted Emission	☐	☒
Note1: The only difference between sample #1 and sample #2 is whether to keep the original antenna, sample #1 is a conduction test product that removes the original antenna and is equipped with SMA wires, and sample #2 is a complete product that retains the original antenna.		

3.6 Test Facility

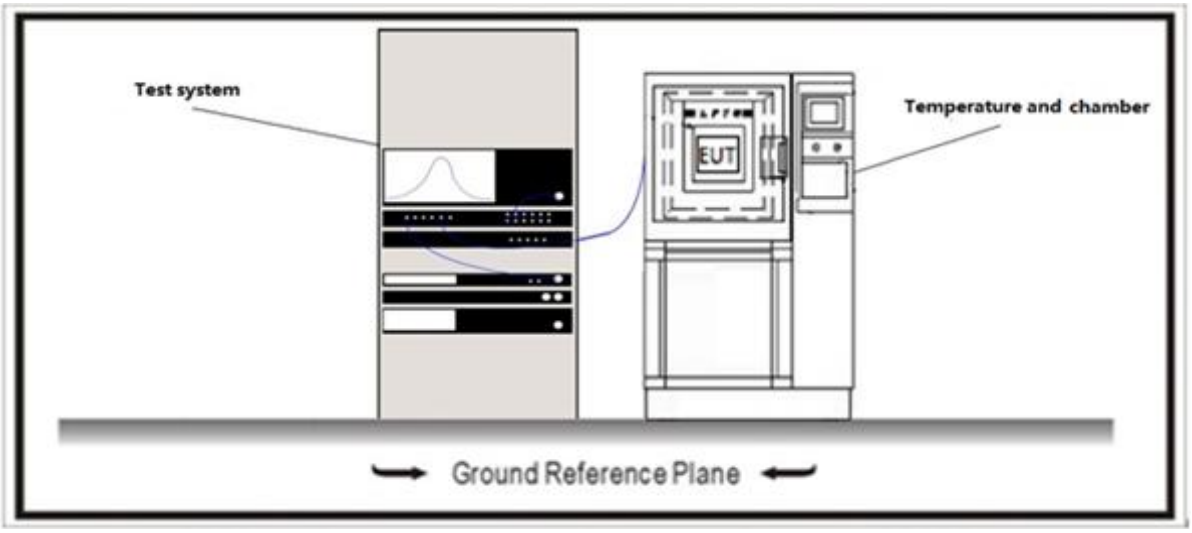
Tset Location A	**:**	**FCC Designation Number: CN1199**
Tset Location B	**:**	**FCC Designation Number: CN1321**
Tset Location A	**:**	**ISED Designation Number: CN0040**
Tset Location B	**:**	**ISED Designation Number: CN0175**

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Maximum Conducted Output Power	VERDICT: PASS

4.1.1 Limit	
Standard	FCC Part 15 Subpart C Paragraph 15.247(b) RSS-247 Issue 3 Paragraph 5.4(d).
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
☐	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		7.8	Evaluation of frequency-hopping device parameters
	☒	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

4.2 Emissions in Restricted Bands — VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (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	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	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
8.81425 – 8.81475	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	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other

than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Standard	RSS-Gen Issue 5 Paragraph 8.10		
Restricted Bands of operation for IC			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

RSS-Gen Issue 5 Paragraph 8.9.

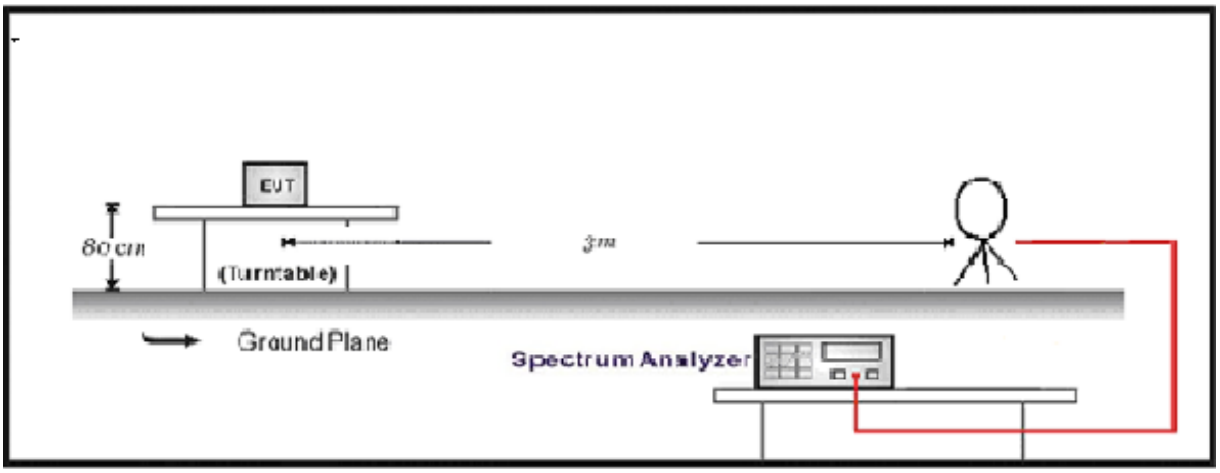
Frequency (MHz)	Field strength	Field strength (dBµV/m)	Measurement distance (m)
0.009 - 0.49	6.37/F(kHz) µA/m	48.5 – 13.8	300(Note 1)
0.49 - 1.705	63.7/F(kHz) µA/m	33.8 - 23	30(Note 1)
1.705 - 30	30 µV/m	29.5	30(Note 1)
30 - 88	100 µV/m	40	3(Note 2)
88 - 216	150 µV/m	43.5	3(Note 2)
216 - 960	200 µV/m	46	3(Note 2)
Above 960	500 µV/m	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

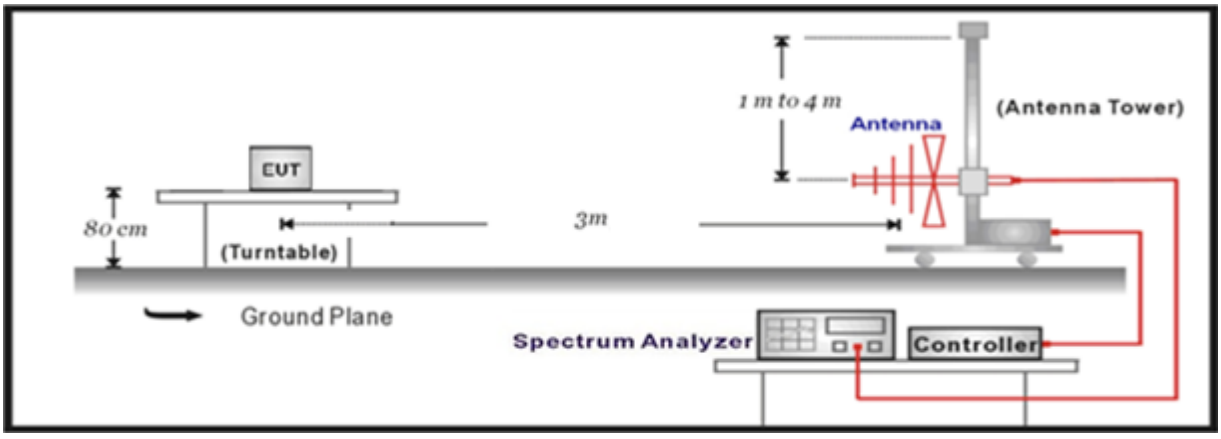
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

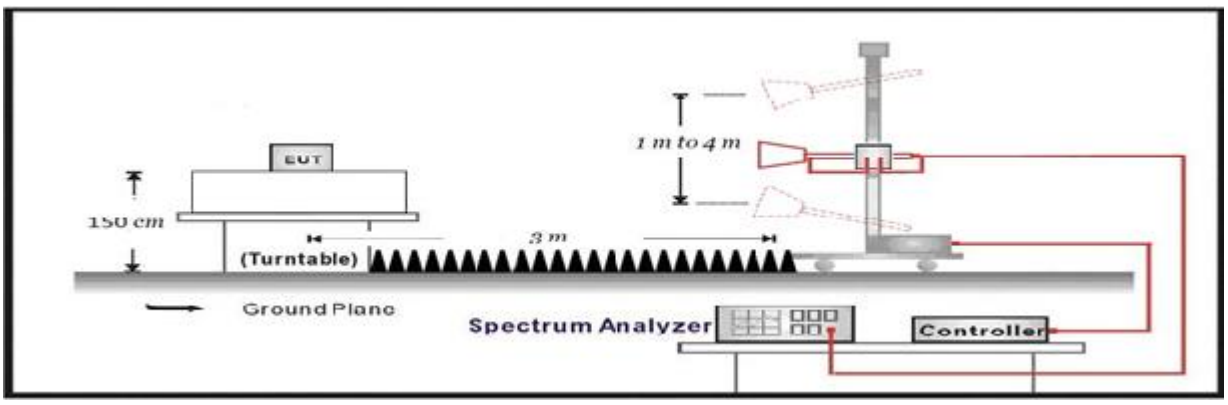
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



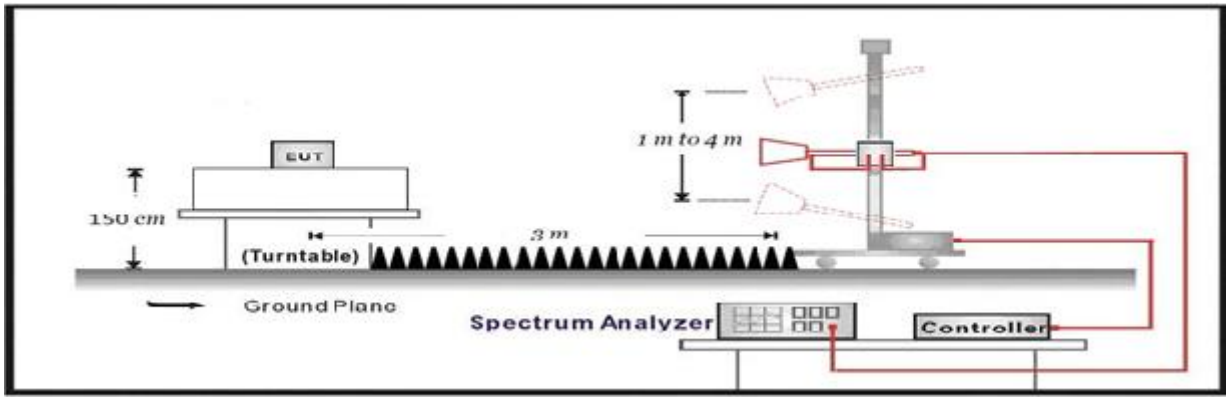
4.2.3 Test Procedure					
	References Rule			Chapter	Description
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10		11.12.1	Radiated emission measurements
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Band edge measurements	VERDICT: PASS

4.3.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) ,15.209 RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5			
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

4.3.2 Test Setup



4.3.3 Test Procedure

Test Method

	References Rule		Chapter	Description
☐	DA 00-705		N/A	duty cycle correction factor
☒	ANSI C63.10		6.10	Band-edge testing
	☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

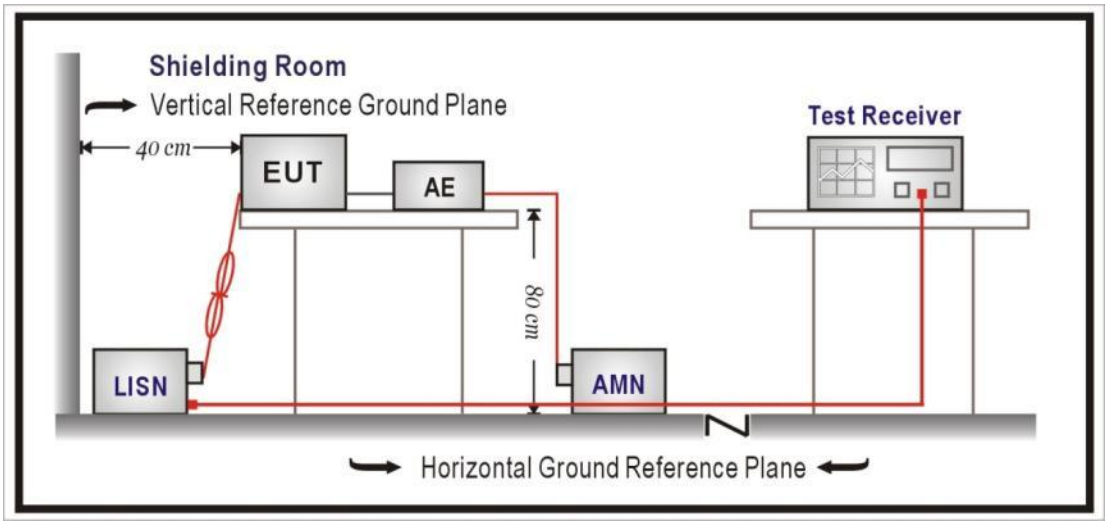
4.4 AC Power Line Conducted Emission	VERDICT: PASS

4.4.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207 & RSS-Gen 8.8	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]
0,15 - 0,50	66 – 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.4.2 Test Setup



4.4.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensedwireless devices

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: Maximum Conducted Output Power

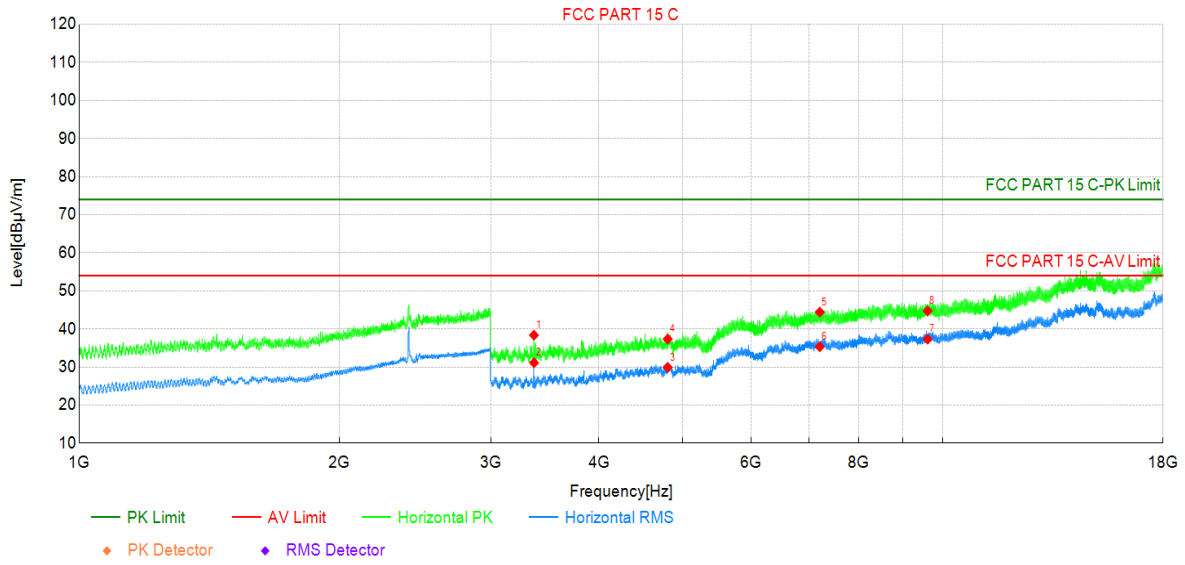
Test Mode	Antenna	Frequency[MHz]	Conducted Power[dBm]	EIRP Power[dBm]	Conducted Limit[dBm]	EIRP Limit[dBm]	Verdict
Mode 1	Ant1	2402	8.49	9.45	≤20.97	≤36	PASS
		2441	8.41	9.37	≤20.97	≤36	PASS
		2480	6.21	7.17	≤20.97	≤36	PASS
Mode 2	Ant1	2402	8.47	9.43	≤20.97	≤36	PASS
		2441	8.39	9.35	≤20.97	≤36	PASS
		2480	8.43	9.39	≤20.97	≤36	PASS
Mode 3	Ant1	2402	8.49	9.45	≤20.97	≤36	PASS
		2441	8.49	9.45	≤20.97	≤36	PASS
		2480	8.45	9.41	≤20.97	≤36	PASS
Note 1: EIRP Power = Conducted Power + Antenna gain Note 2: The Antenna gain please refer to clause 1.2							

Appendix B: Emissions in Restricted Band

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2402MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



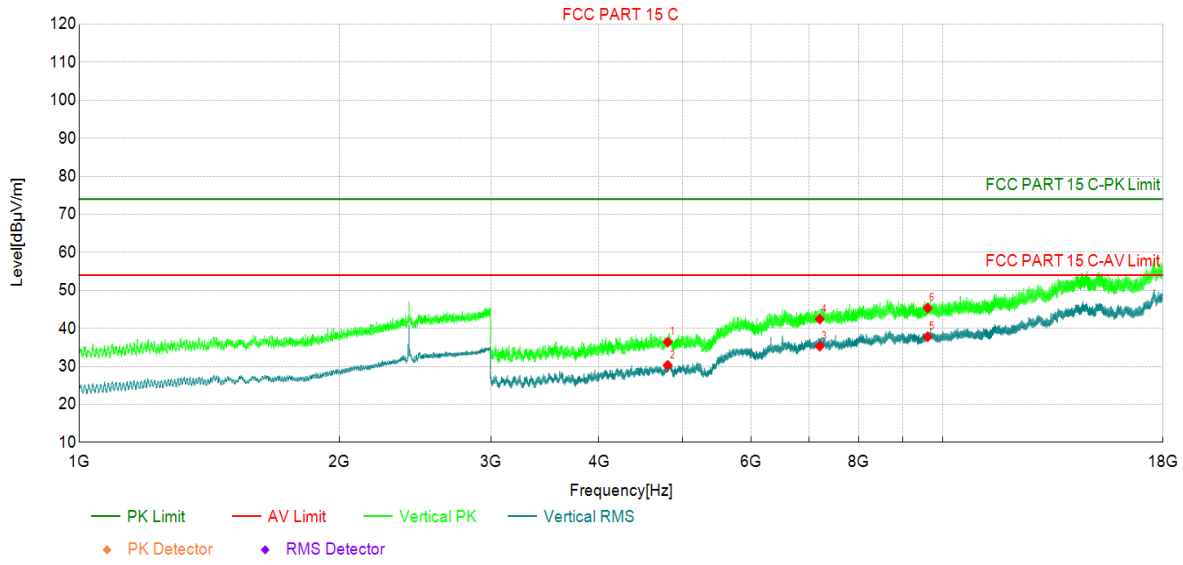
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3363	50.22	38.36	-11.86	74.00	35.64	PK	Horizo	PASS
2	3364	42.97	31.12	-11.85	54.00	22.88	RMS	Horizo	PASS
3	4804	35.91	29.88	-6.03	54.00	24.12	RMS	Horizo	PASS
4	4804	43.37	37.34	-6.03	74.00	36.66	PK	Horizo	PASS
5	7206	41.45	44.42	2.97	74.00	29.58	PK	Horizo	PASS
6	7206	32.36	35.33	2.97	54.00	18.67	RMS	Horizo	PASS
7	9608	31.39	37.33	5.94	54.00	16.67	RMS	Horizo	PASS
8	9608	38.79	44.73	5.94	74.00	29.27	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2402MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



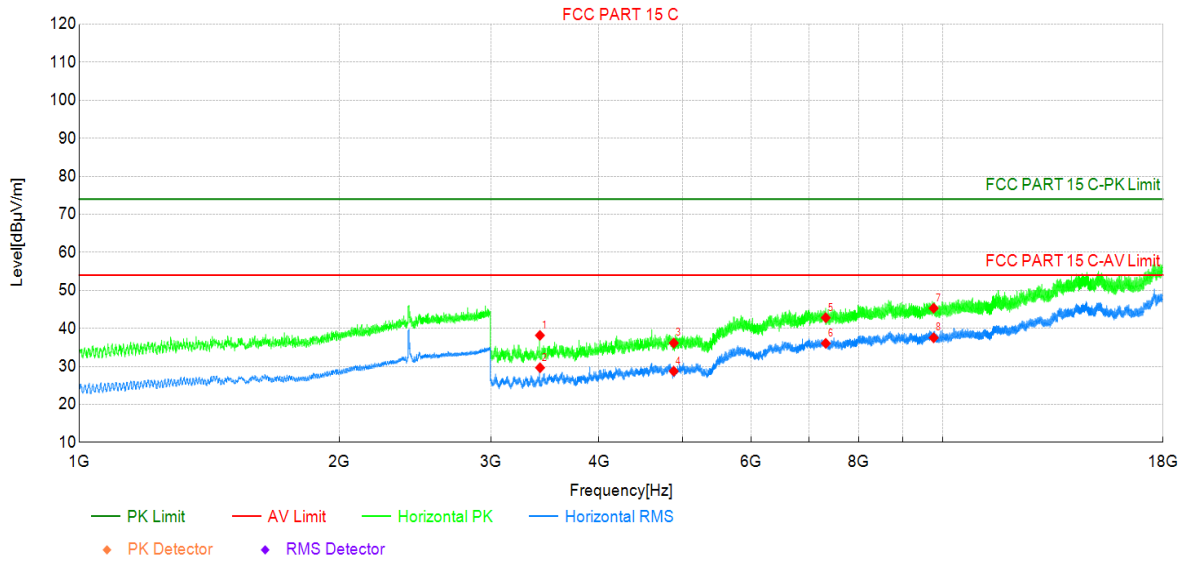
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4804	42.41	36.38	-6.03	74.00	37.62	PK	Vertic	PASS
2	4804	36.31	30.28	-6.03	54.00	23.72	RMS	Vertic	PASS
3	7206	32.32	35.29	2.97	54.00	18.71	RMS	Vertic	PASS
4	7206	39.48	42.45	2.97	74.00	31.55	PK	Vertic	PASS
5	9608	31.85	37.79	5.94	54.00	16.21	RMS	Vertic	PASS
6	9608	39.41	45.35	5.94	74.00	28.65	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2441MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



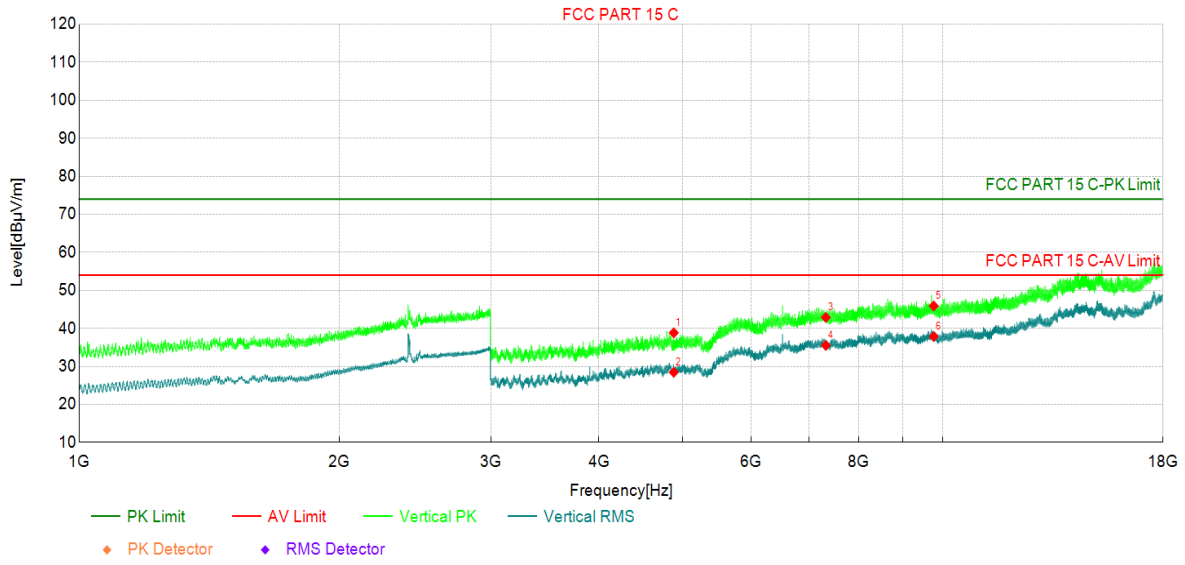
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3417	49.75	38.15	-11.60	74.00	35.85	PK	Horizo	PASS
2	3418	41.22	29.64	-11.58	54.00	24.36	RMS	Horizo	PASS
3	4882	42.22	36.14	-6.08	74.00	37.86	PK	Horizo	PASS
4	4882	34.81	28.73	-6.08	54.00	25.27	RMS	Horizo	PASS
5	7323	40.02	42.80	2.78	74.00	31.20	PK	Horizo	PASS
6	7323	33.27	36.05	2.78	54.00	17.95	RMS	Horizo	PASS
7	9764	39.18	45.30	6.12	74.00	28.70	PK	Horizo	PASS
8	9764	31.41	37.53	6.12	54.00	16.47	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2441MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



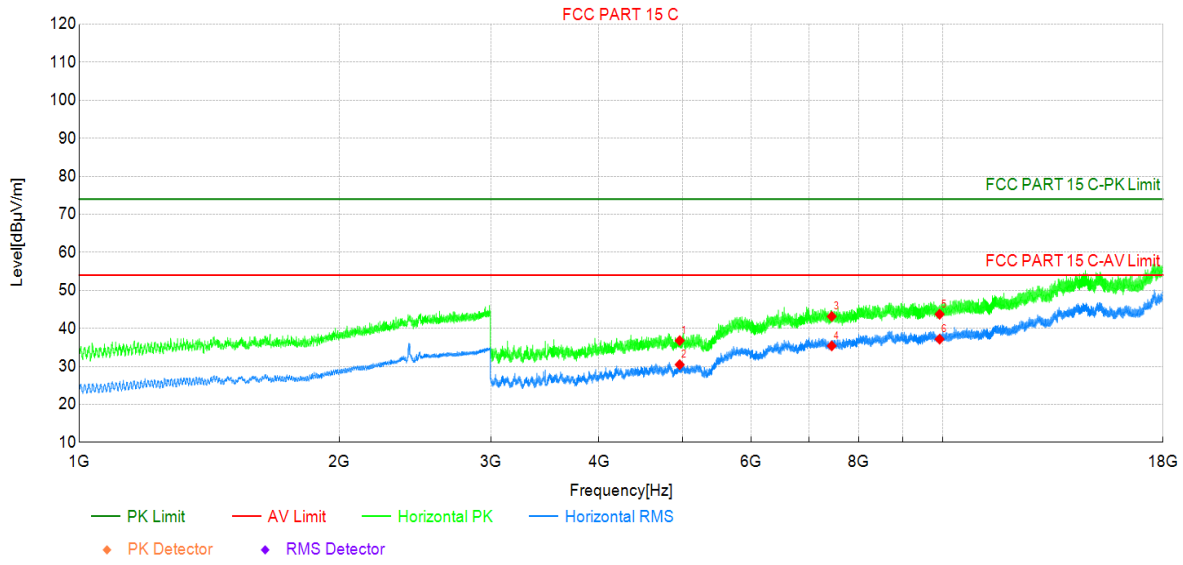
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4882	44.91	38.83	-6.08	74.00	35.17	PK	Vertic	PASS
2	4882	34.53	28.45	-6.08	54.00	25.55	RMS	Vertic	PASS
3	7323	40.10	42.88	2.78	74.00	31.12	PK	Vertic	PASS
4	7323	32.74	35.52	2.78	54.00	18.48	RMS	Vertic	PASS
5	9764	39.78	45.90	6.12	74.00	28.10	PK	Vertic	PASS
6	9764	31.75	37.87	6.12	54.00	16.13	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2480MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



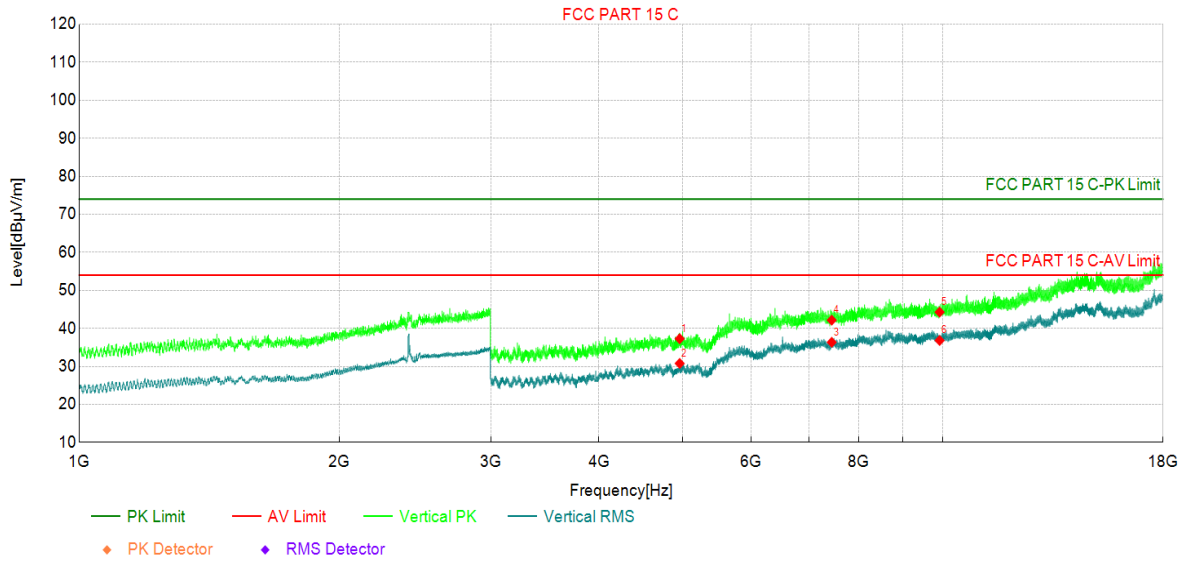
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	42.04	36.77	-5.27	74.00	37.23	PK	Horizo	PASS
2	4960	35.72	30.45	-5.27	54.00	23.55	RMS	Horizo	PASS
3	7440	40.57	43.13	2.56	74.00	30.87	PK	Horizo	PASS
4	7440	32.82	35.38	2.56	54.00	18.62	RMS	Horizo	PASS
5	9920	38.09	43.71	5.62	74.00	30.29	PK	Horizo	PASS
6	9920	31.53	37.15	5.62	54.00	16.85	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2480MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



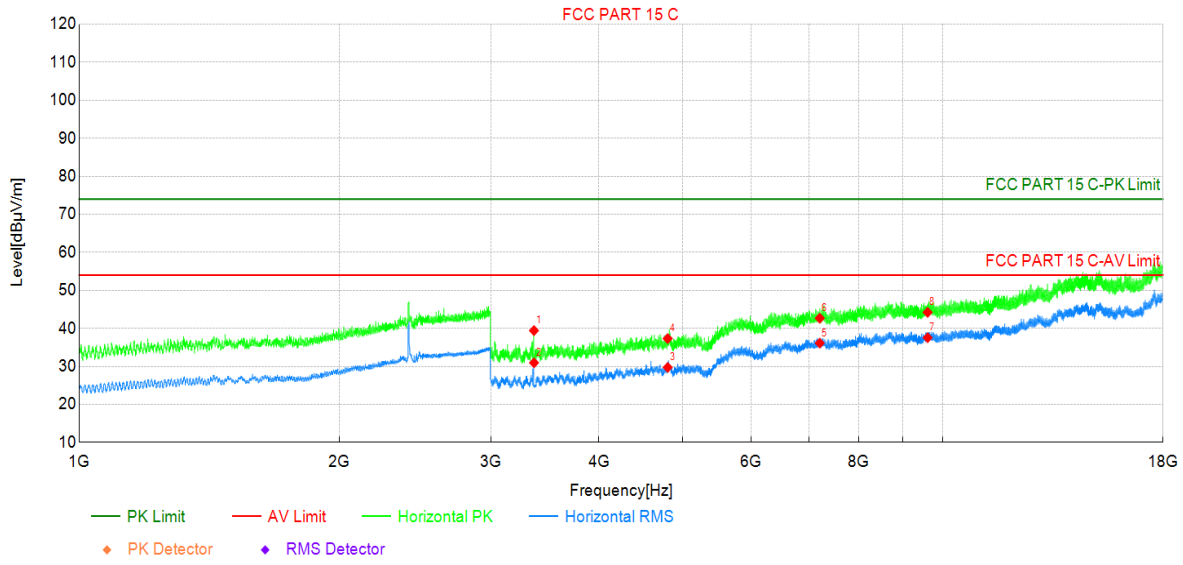
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	42.54	37.27	-5.27	74.00	36.73	PK	Vertic	PASS
2	4960	36.04	30.77	-5.27	54.00	23.23	RMS	Vertic	PASS
3	7440	33.77	36.33	2.56	54.00	17.67	RMS	Vertic	PASS
4	7440	39.60	42.16	2.56	74.00	31.84	PK	Vertic	PASS
5	9920	38.65	44.27	5.62	74.00	29.73	PK	Vertic	PASS
6	9920	31.21	36.83	5.62	54.00	17.17	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2402MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



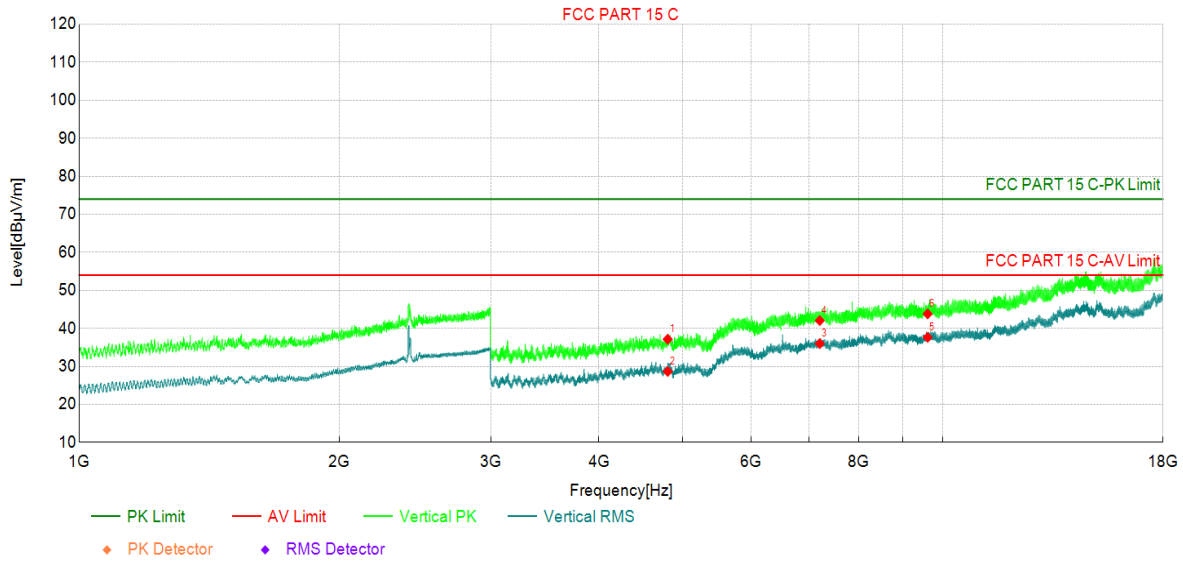
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3363	51.27	39.41	-11.86	74.00	34.59	PK	Horizo	PASS
2	3364	42.80	30.95	-11.85	54.00	23.05	RMS	Horizo	PASS
3	4804	35.75	29.72	-6.03	54.00	24.28	RMS	Horizo	PASS
4	4804	43.35	37.32	-6.03	74.00	36.68	PK	Horizo	PASS
5	7206	33.15	36.12	2.97	54.00	17.88	RMS	Horizo	PASS
6	7206	39.70	42.67	2.97	74.00	31.33	PK	Horizo	PASS
7	9608	31.61	37.55	5.94	54.00	16.45	RMS	Horizo	PASS
8	9608	38.27	44.21	5.94	74.00	29.79	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2402MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

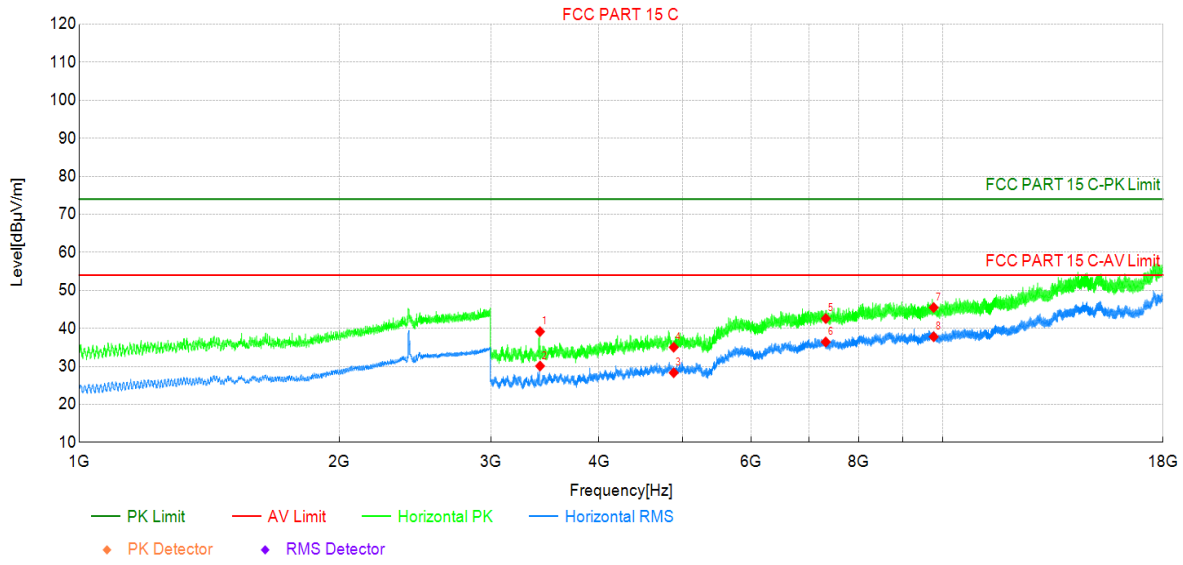
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4804	43.17	37.14	-6.03	74.00	36.86	PK	Vertic	PASS
2	4804	34.70	28.67	-6.03	54.00	25.33	RMS	Vertic	PASS
3	7206	33.02	35.99	2.97	54.00	18.01	RMS	Vertic	PASS
4	7206	39.08	42.05	2.97	74.00	31.95	PK	Vertic	PASS
5	9608	31.69	37.63	5.94	54.00	16.37	RMS	Vertic	PASS
6	9608	37.87	43.81	5.94	74.00	30.19	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2441MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



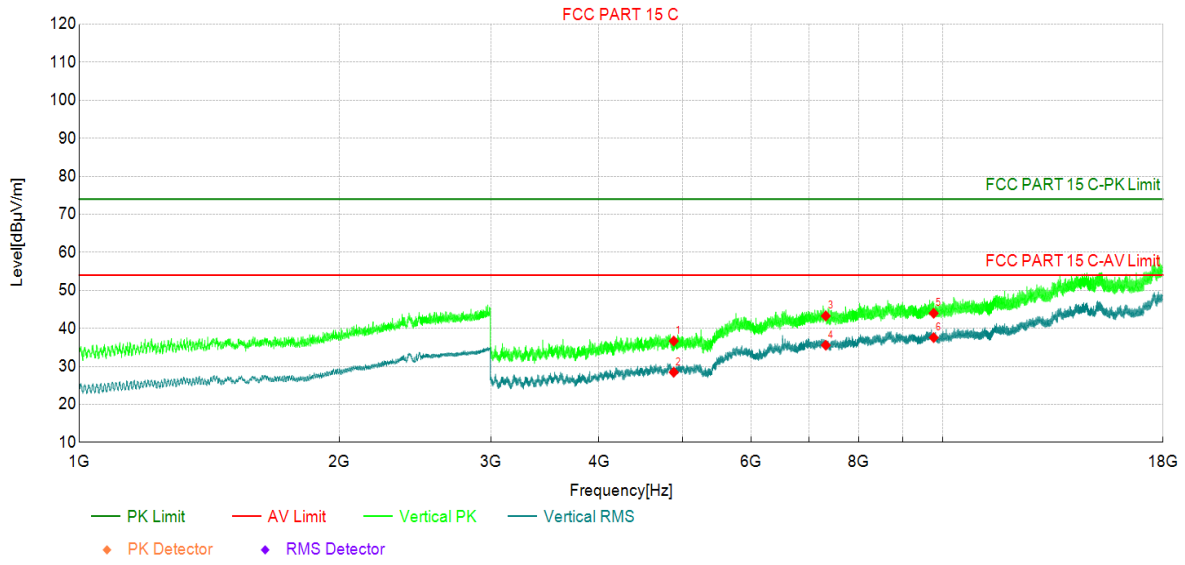
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3418	50.72	39.14	-11.58	74.00	34.86	PK	Horizo	PASS
2	3418	41.67	30.09	-11.58	54.00	23.91	RMS	Horizo	PASS
3	4882	34.40	28.32	-6.08	54.00	25.68	RMS	Horizo	PASS
4	4882	41.11	35.03	-6.08	74.00	38.97	PK	Horizo	PASS
5	7323	39.80	42.58	2.78	74.00	31.42	PK	Horizo	PASS
6	7323	33.64	36.42	2.78	54.00	17.58	RMS	Horizo	PASS
7	9764	39.35	45.47	6.12	74.00	28.53	PK	Horizo	PASS
8	9764	31.68	37.80	6.12	54.00	16.20	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2441MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



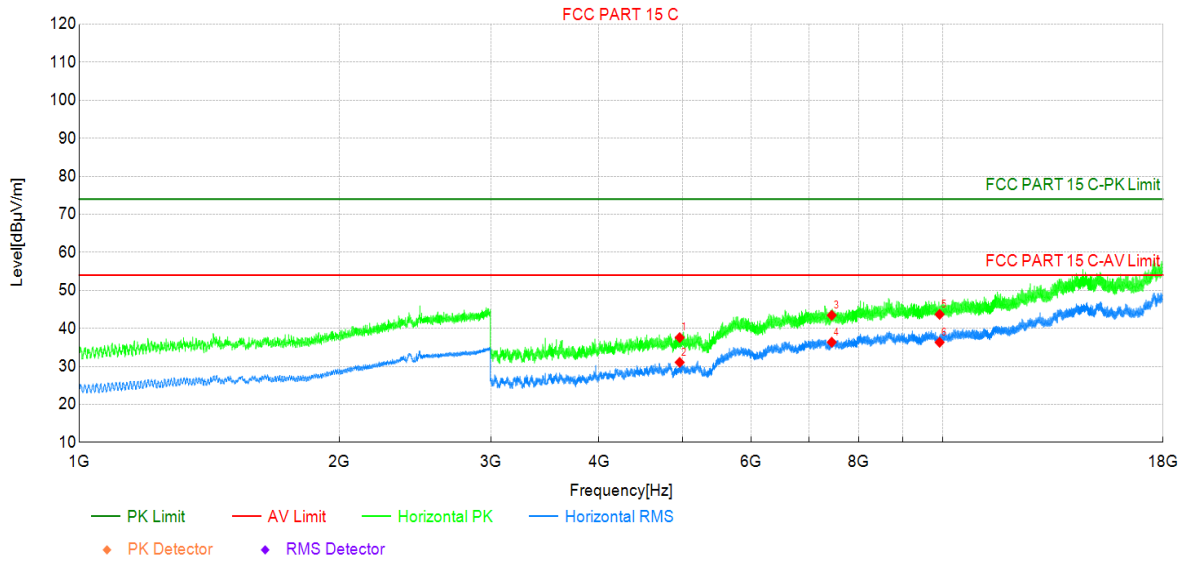
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4882	42.74	36.66	-6.08	74.00	37.34	PK	Vertic	PASS
2	4882	34.53	28.45	-6.08	54.00	25.55	RMS	Vertic	PASS
3	7323	40.49	43.27	2.78	74.00	30.73	PK	Vertic	PASS
4	7323	32.78	35.56	2.78	54.00	18.44	RMS	Vertic	PASS
5	9764	37.85	43.97	6.12	74.00	30.03	PK	Vertic	PASS
6	9764	31.44	37.56	6.12	54.00	16.44	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2480MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

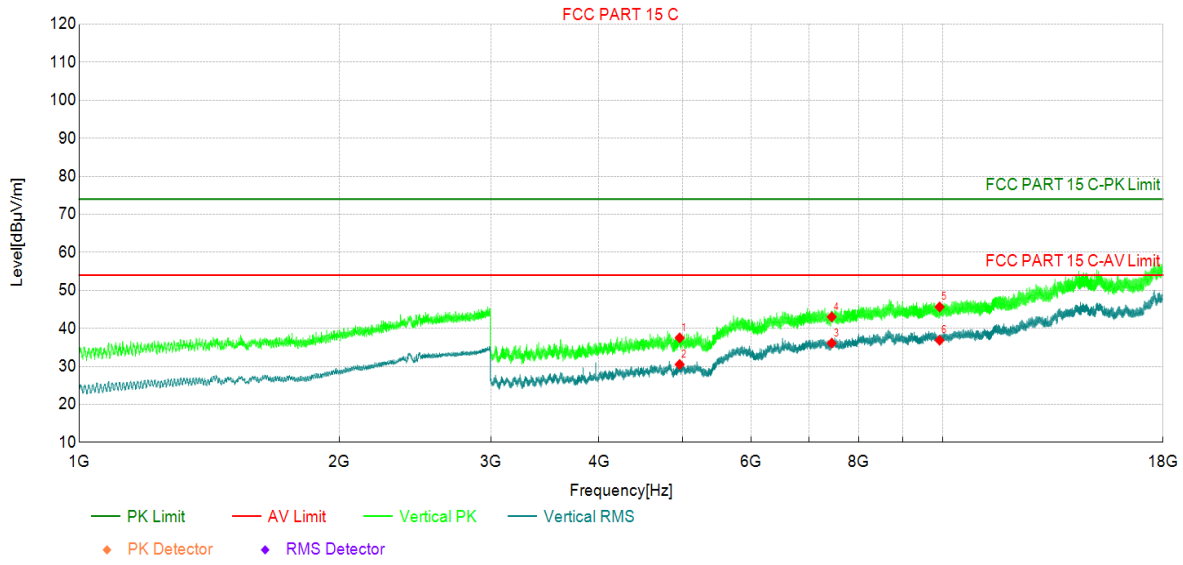
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	42.84	37.57	-5.27	74.00	36.43	PK	Horizo	PASS
2	4960	36.32	31.05	-5.27	54.00	22.95	RMS	Horizo	PASS
3	7440	40.88	43.44	2.56	74.00	30.56	PK	Horizo	PASS
4	7440	33.79	36.35	2.56	54.00	17.65	RMS	Horizo	PASS
5	9920	38.06	43.68	5.62	74.00	30.32	PK	Horizo	PASS
6	9920	30.71	36.33	5.62	54.00	17.67	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2480MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



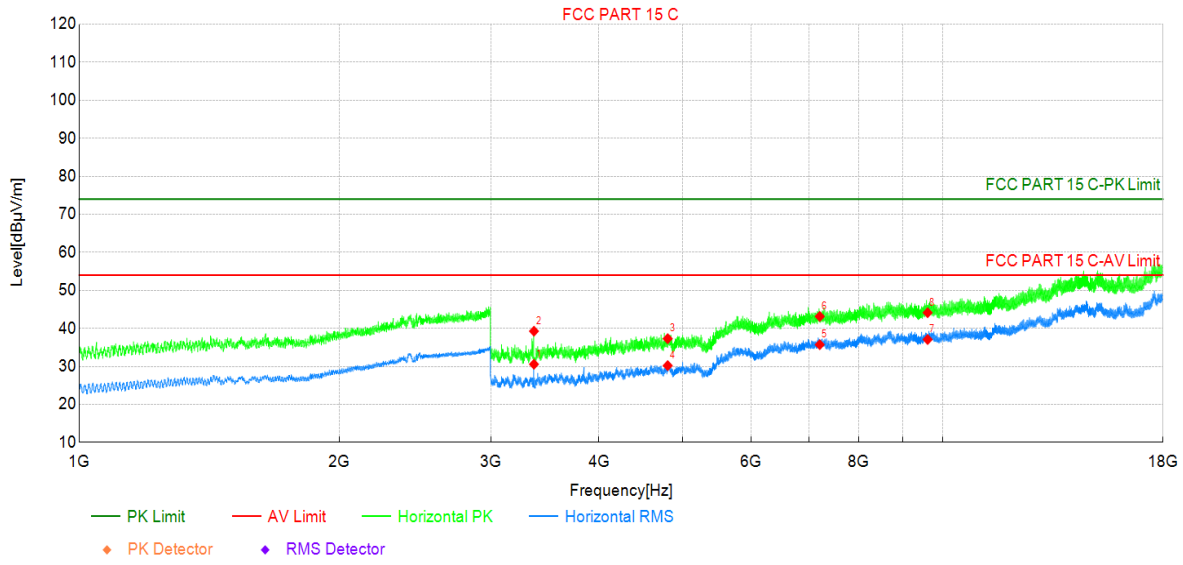
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	42.77	37.50	-5.27	74.00	36.50	PK	Vertic	PASS
2	4960	35.77	30.50	-5.27	54.00	23.50	RMS	Vertic	PASS
3	7440	33.54	36.10	2.56	54.00	17.90	RMS	Vertic	PASS
4	7440	40.46	43.02	2.56	74.00	30.98	PK	Vertic	PASS
5	9920	40.02	45.64	5.62	74.00	28.36	PK	Vertic	PASS
6	9920	31.24	36.86	5.62	54.00	17.14	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2402MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



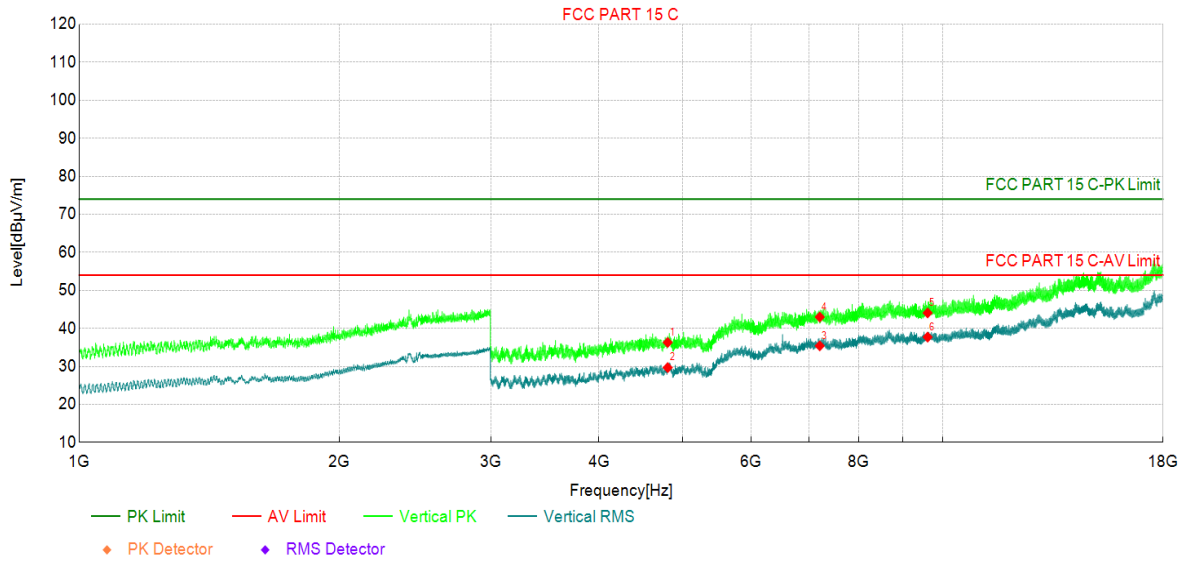
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3363	42.41	30.55	-11.86	54.00	23.45	RMS	Horizo	PASS
2	3363	51.12	39.26	-11.86	74.00	34.74	PK	Horizo	PASS
3	4804	43.31	37.28	-6.03	74.00	36.72	PK	Horizo	PASS
4	4804	36.22	30.19	-6.03	54.00	23.81	RMS	Horizo	PASS
5	7206	32.75	35.72	2.97	54.00	18.28	RMS	Horizo	PASS
6	7206	40.17	43.14	2.97	74.00	30.86	PK	Horizo	PASS
7	9608	31.13	37.07	5.94	54.00	16.93	RMS	Horizo	PASS
8	9608	38.17	44.11	5.94	74.00	29.89	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2402MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

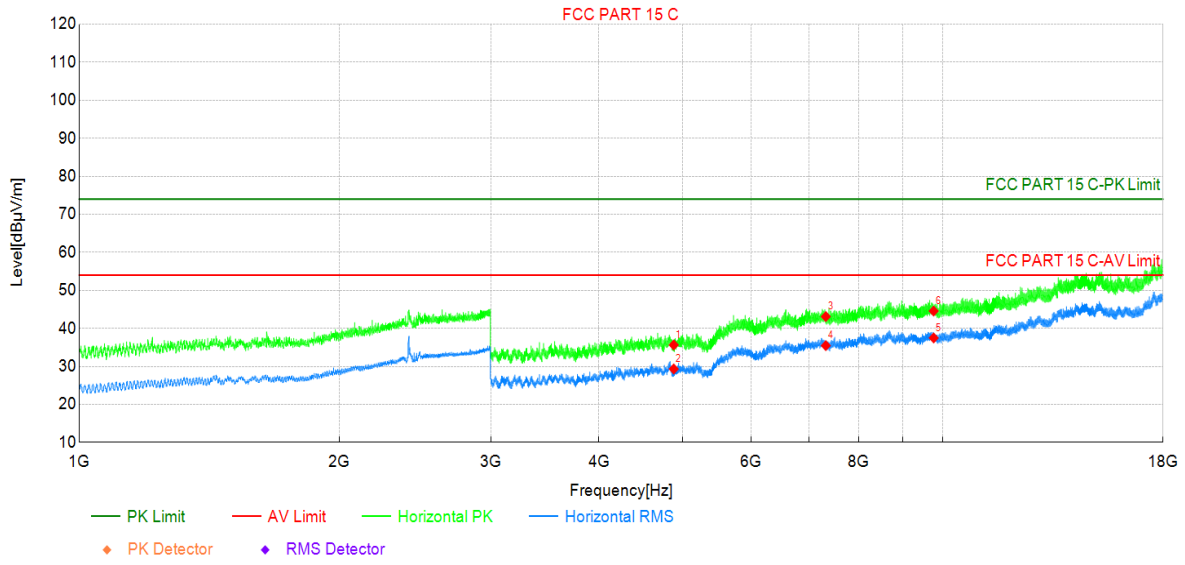
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4804	42.32	36.29	-6.03	74.00	37.71	PK	Vertic	PASS
2	4804	35.71	29.68	-6.03	54.00	24.32	RMS	Vertic	PASS
3	7206	32.42	35.39	2.97	54.00	18.61	RMS	Vertic	PASS
4	7206	40.00	42.97	2.97	74.00	31.03	PK	Vertic	PASS
5	9608	38.11	44.05	5.94	74.00	29.95	PK	Vertic	PASS
6	9608	31.76	37.70	5.94	54.00	16.30	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2441MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

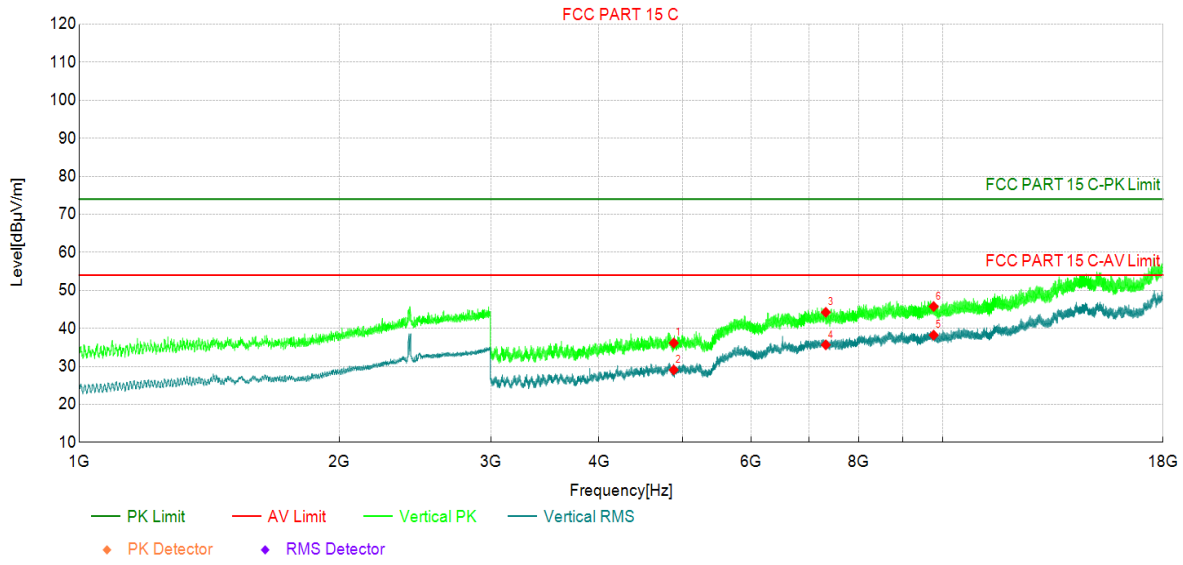
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4882	41.71	35.63	-6.08	74.00	38.37	PK	Horizo	PASS
2	4882	35.40	29.32	-6.08	54.00	24.68	RMS	Horizo	PASS
3	7323	40.32	43.10	2.78	74.00	30.90	PK	Horizo	PASS
4	7323	32.68	35.46	2.78	54.00	18.54	RMS	Horizo	PASS
5	9764	31.36	37.48	6.12	54.00	16.52	RMS	Horizo	PASS
6	9764	38.44	44.56	6.12	74.00	29.44	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2441MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

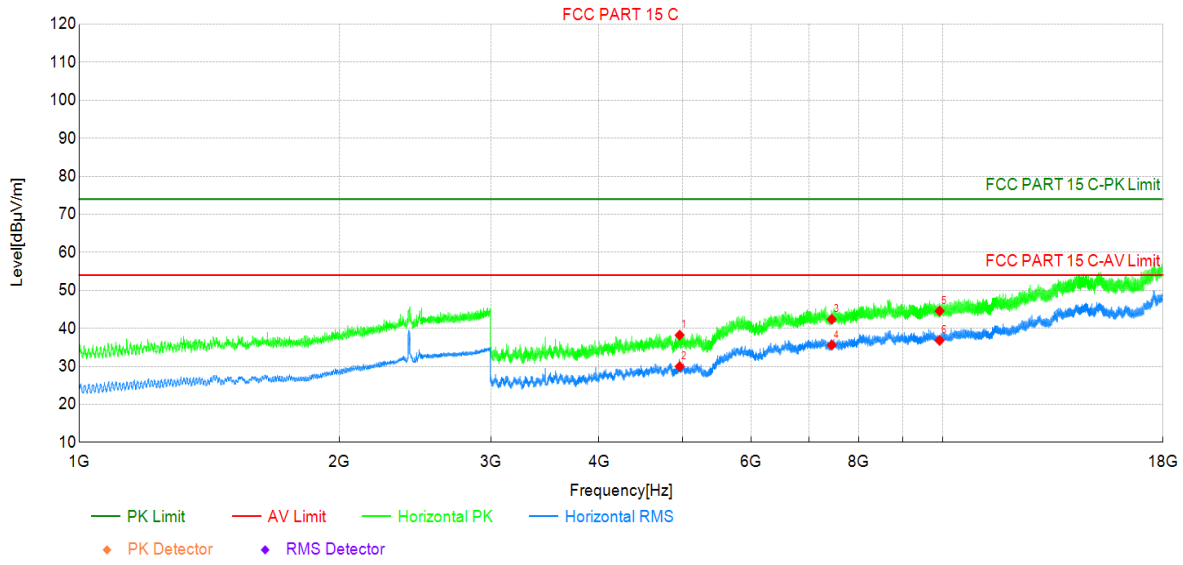
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4882	42.23	36.15	-6.08	74.00	37.85	PK	Vertic	PASS
2	4882	35.15	29.07	-6.08	54.00	24.93	RMS	Vertic	PASS
3	7323	41.44	44.22	2.78	74.00	29.78	PK	Vertic	PASS
4	7323	32.88	35.66	2.78	54.00	18.34	RMS	Vertic	PASS
5	9764	32.09	38.21	6.12	54.00	15.79	RMS	Vertic	PASS
6	9764	39.63	45.75	6.12	74.00	28.25	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2480MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

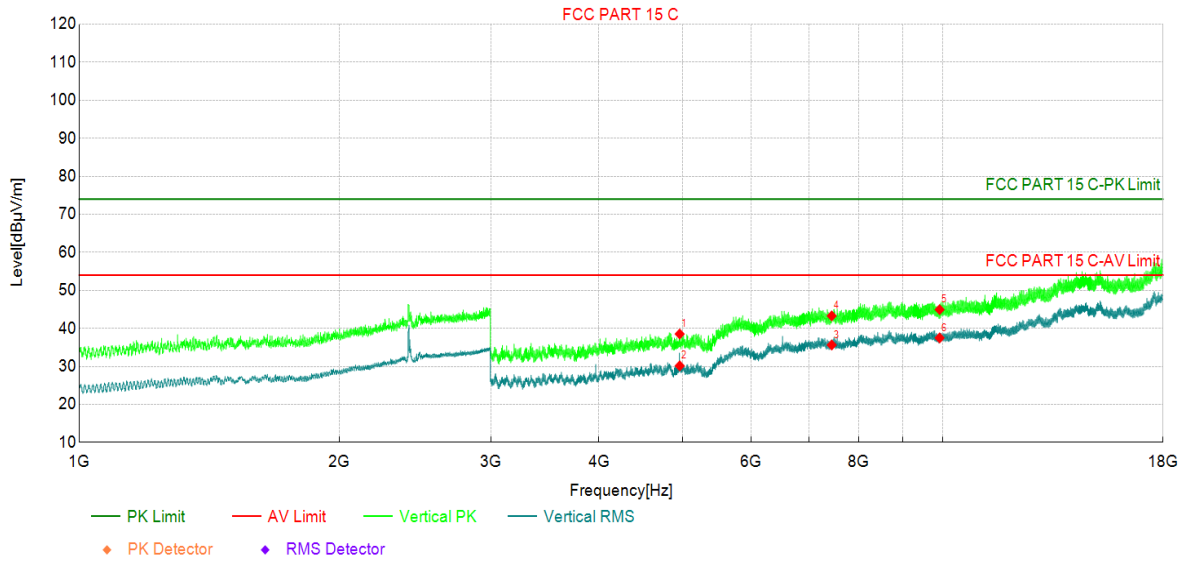
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	43.48	38.21	-5.27	74.00	35.79	PK	Horizo	PASS
2	4960	35.23	29.96	-5.27	54.00	24.04	RMS	Horizo	PASS
3	7440	39.81	42.37	2.56	74.00	31.63	PK	Horizo	PASS
4	7440	33.04	35.60	2.56	54.00	18.40	RMS	Horizo	PASS
5	9920	38.95	44.57	5.62	74.00	29.43	PK	Horizo	PASS
6	9920	31.20	36.82	5.62	54.00	17.18	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2480MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph

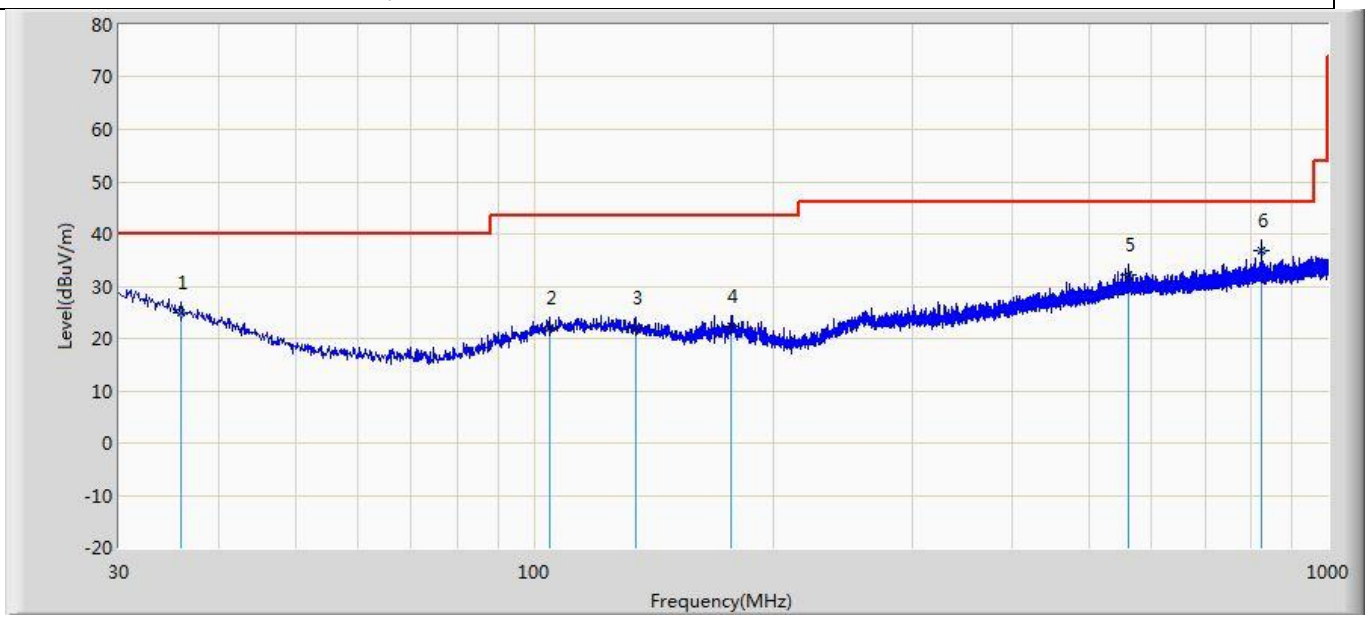


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	43.79	38.52	-5.27	74.00	35.48	PK	Vertic	PASS
2	4960	35.41	30.14	-5.27	54.00	23.86	RMS	Vertic	PASS
3	7440	33.07	35.63	2.56	54.00	18.37	RMS	Vertic	PASS
4	7440	40.72	43.28	2.56	74.00	30.72	PK	Vertic	PASS
5	9920	39.32	44.94	5.62	74.00	29.06	PK	Vertic	PASS
6	9920	31.86	37.48	5.62	54.00	16.52	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

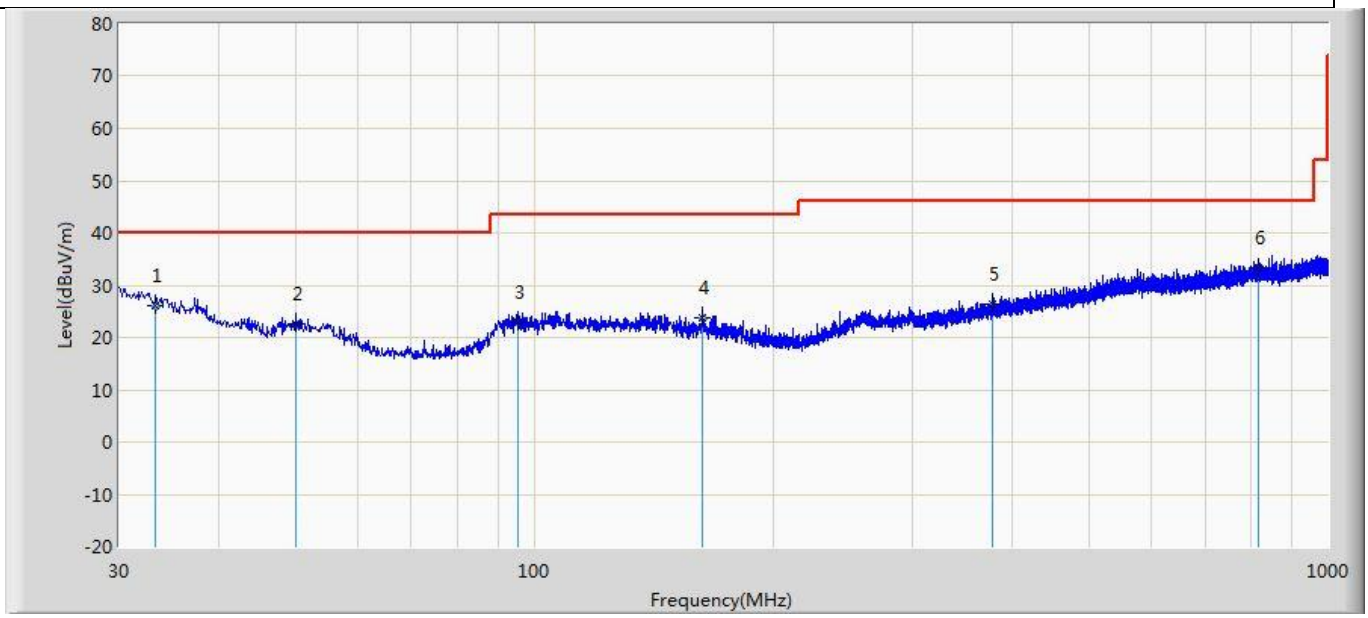
The worst case of Radiated Emission below 1GHz :

Profile: 24C0528R	Page No.: 1
Engineer: Yu Liu	
Site: AC2	Time: 2025/02/10 - 21:25
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: mode 1:Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.941	24.841	3.016	-15.159	40.000	21.825	QP
2		104.569	22.161	3.542	-21.339	43.500	18.619	QP
3		134.033	22.166	3.421	-21.334	43.500	18.745	QP
4		177.319	22.343	5.824	-21.157	43.500	16.520	QP
5		559.984	32.238	5.102	-13.762	46.000	27.136	QP
6	*	824.794	36.949	7.588	-9.051	46.000	29.361	QP

Profile: 24C0528R	Page No.: 2
Engineer: Yu Liu	
Site: AC2	Time: 2025/02/10 - 21:27
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: mode 1:Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		33.395	26.075	2.787	-13.925	40.000	23.288	QP
2		50.006	22.519	7.593	-17.481	40.000	14.926	QP
3		95.596	22.906	5.755	-20.594	43.500	17.151	QP
4		163.133	23.800	6.894	-19.700	43.500	16.906	QP
5		377.260	26.330	3.492	-19.670	46.000	22.838	QP
6	*	816.064	33.191	3.809	-12.809	46.000	29.382	QP

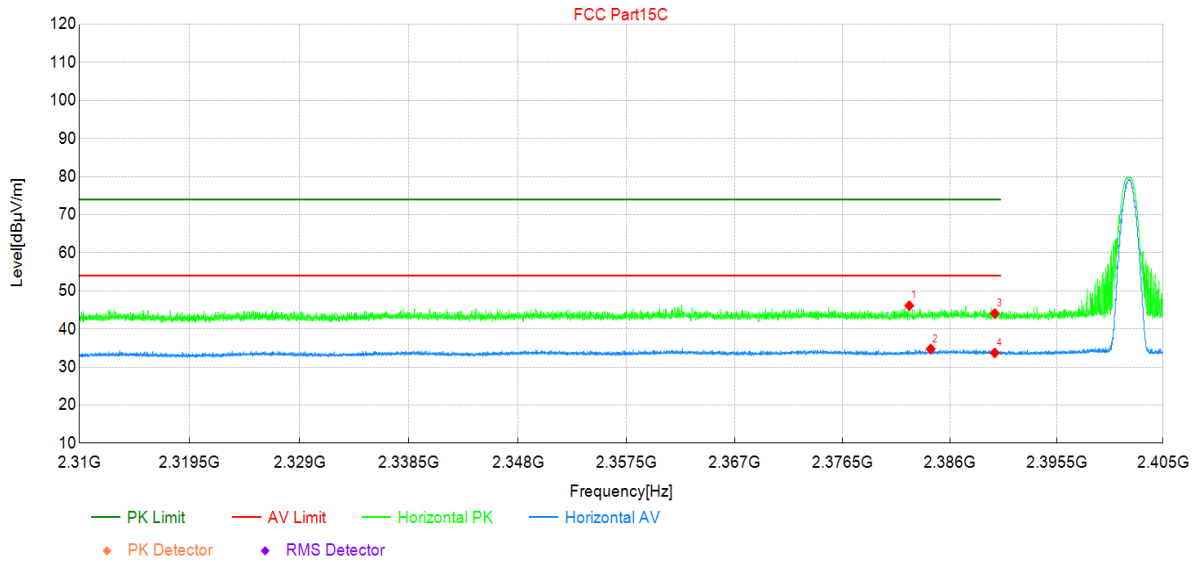
Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. If the test result on peak is lower than average limit, then average measurement needn't be performed.
5. All test data above 18GHz are noise base, so no data shown in this report.
6. In the report, below 1G, only the verification test is carried out for the worst channel of 1~18G worst mode.

Appendix C: Band edge measurements

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2402MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



Suspected Data List

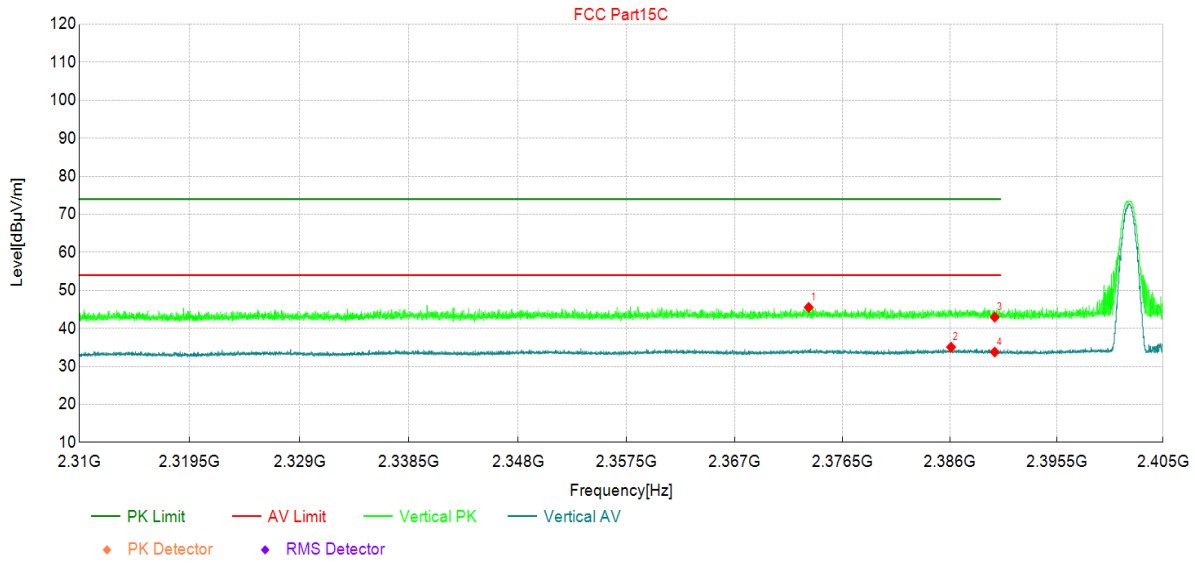
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2382	42.48	46.10	3.62	74.00	27.90	PK	Horizo	PASS
2	2384	31.11	34.73	3.62	54.00	19.27	AV	Horizo	PASS
3	2390	40.41	44.06	3.65	74.00	29.94	PK	Horizo	PASS
4	2390	30.06	33.71	3.65	54.00	20.29	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2402MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



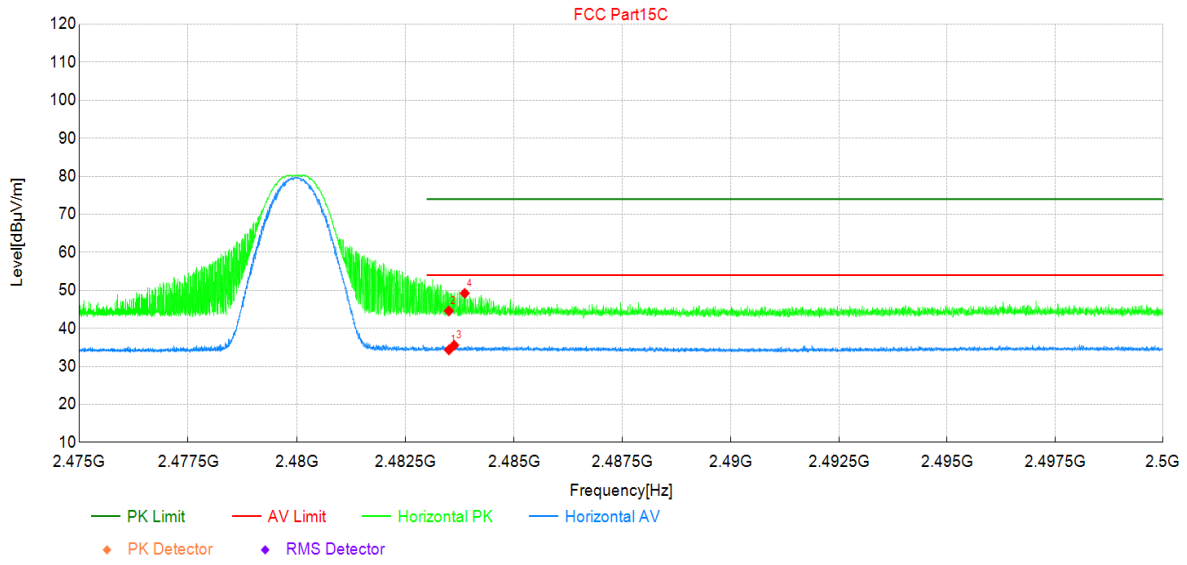
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2374	41.96	45.53	3.57	74.00	28.47	PK	Vertic	PASS
2	2386	31.42	35.05	3.63	54.00	18.95	AV	Vertic	PASS
3	2390	39.31	42.96	3.65	74.00	31.04	PK	Vertic	PASS
4	2390	30.12	33.77	3.65	54.00	20.23	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2480MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



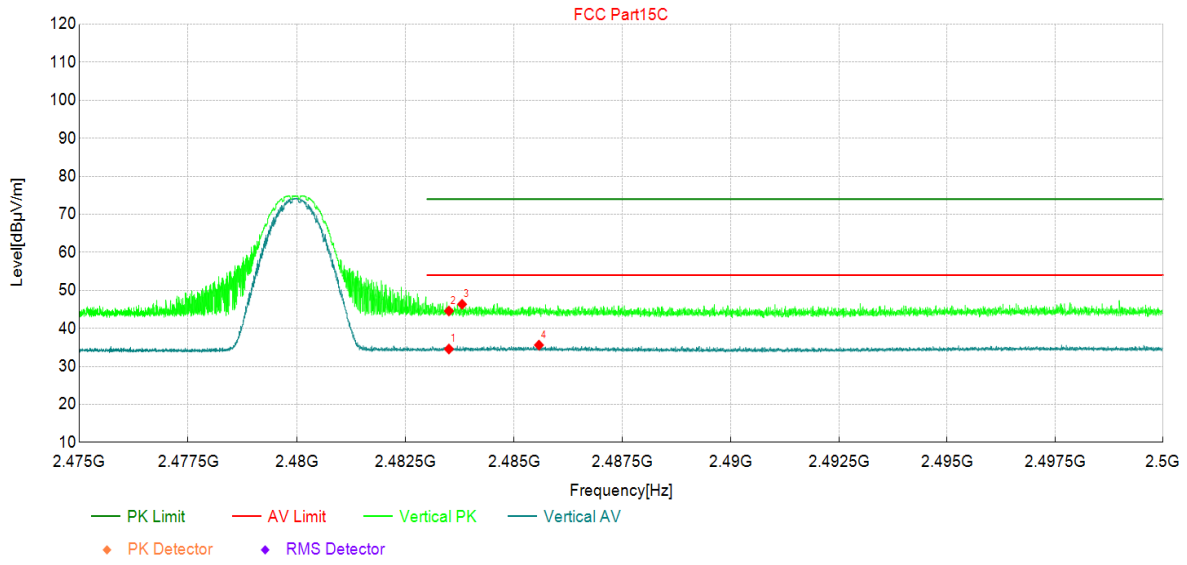
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	30.24	34.33	4.09	54.00	19.67	AV	Horizo	PASS
2	2484	40.50	44.59	4.09	74.00	29.41	PK	Horizo	PASS
3	2484	31.47	35.56	4.09	54.00	18.44	AV	Horizo	PASS
4	2484	45.14	49.23	4.09	74.00	24.77	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2480MHz by DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



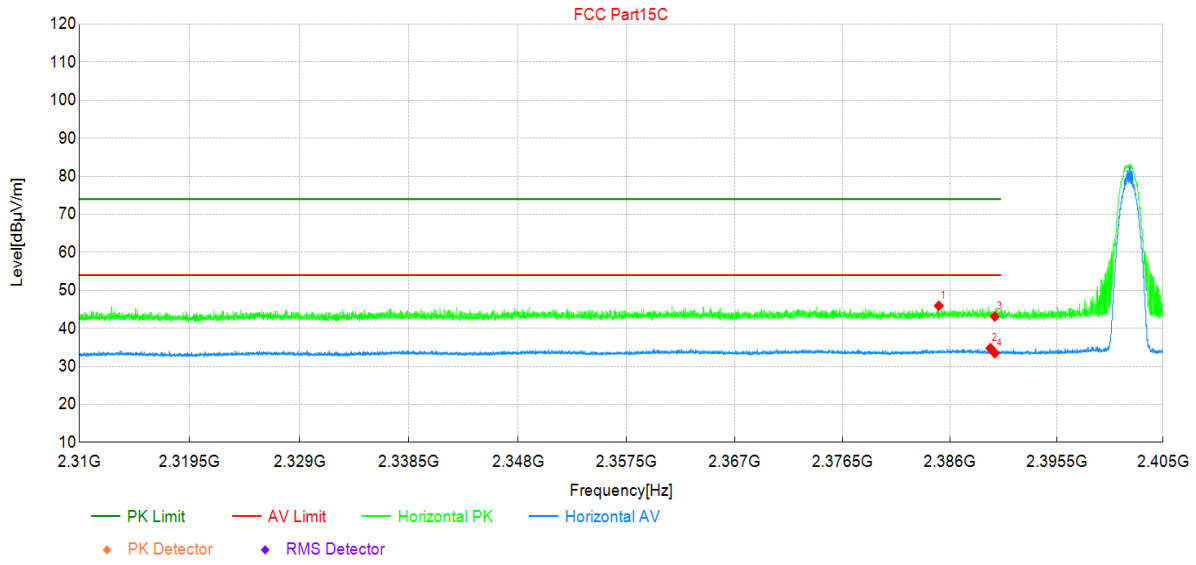
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	30.47	34.56	4.09	54.00	19.44	AV	Vertic	PASS
2	2484	40.48	44.57	4.09	74.00	29.43	PK	Vertic	PASS
3	2484	42.24	46.33	4.09	74.00	27.67	PK	Vertic	PASS
4	2486	31.49	35.60	4.11	54.00	18.40	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2402MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



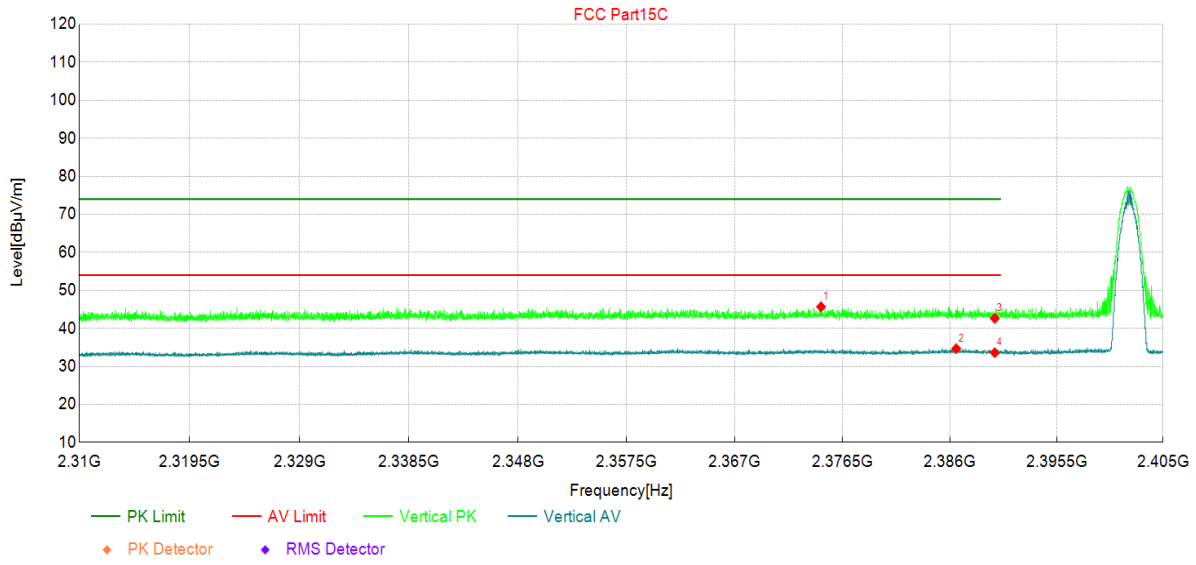
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2385	42.29	45.92	3.63	74.00	28.08	PK	Horizo	PASS
2	2390	31.12	34.77	3.65	54.00	19.23	AV	Horizo	PASS
3	2390	39.46	43.11	3.65	74.00	30.89	PK	Horizo	PASS
4	2390	29.81	33.46	3.65	54.00	20.54	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2402MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



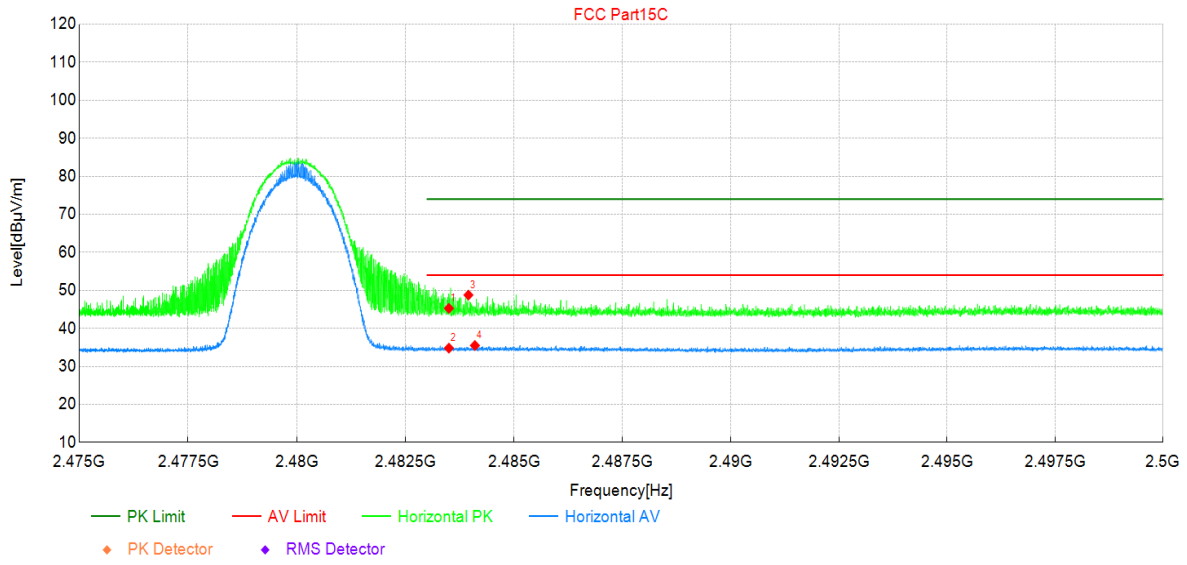
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2375	42.11	45.68	3.57	74.00	28.32	PK	Vertic	PASS
2	2387	31.03	34.66	3.63	54.00	19.34	AV	Vertic	PASS
3	2390	38.98	42.63	3.65	74.00	31.37	PK	Vertic	PASS
4	2390	29.94	33.59	3.65	54.00	20.41	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2480MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



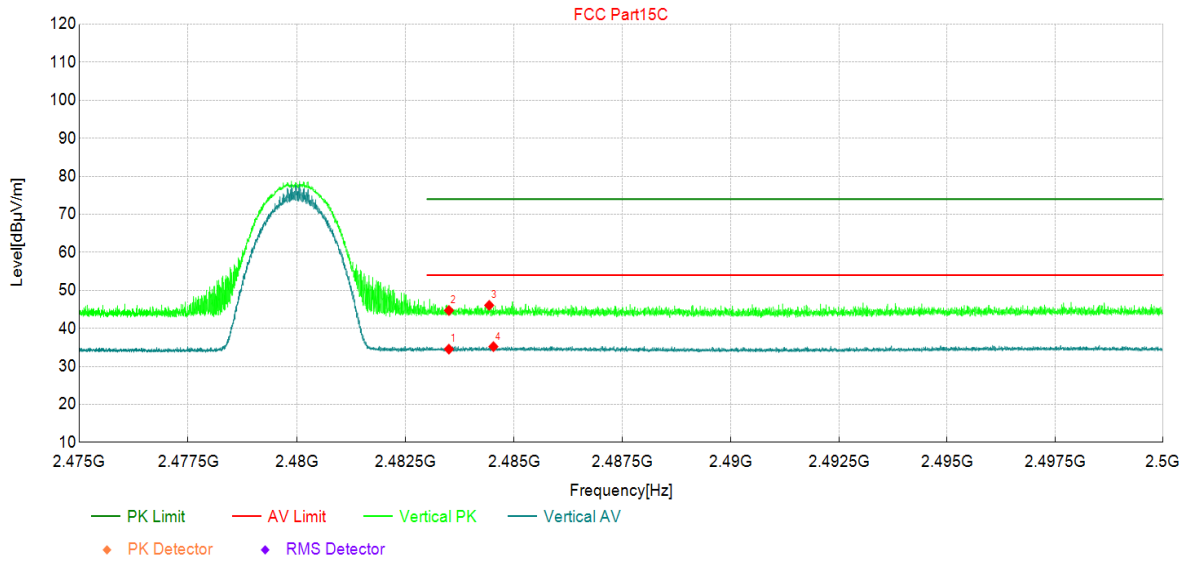
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	41.18	45.27	4.09	74.00	28.73	PK	Horizo	PASS
2	2484	30.71	34.80	4.09	54.00	19.20	AV	Horizo	PASS
3	2484	44.66	48.76	4.10	74.00	25.24	PK	Horizo	PASS
4	2484	31.38	35.49	4.11	54.00	18.51	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2480MHz by 2DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



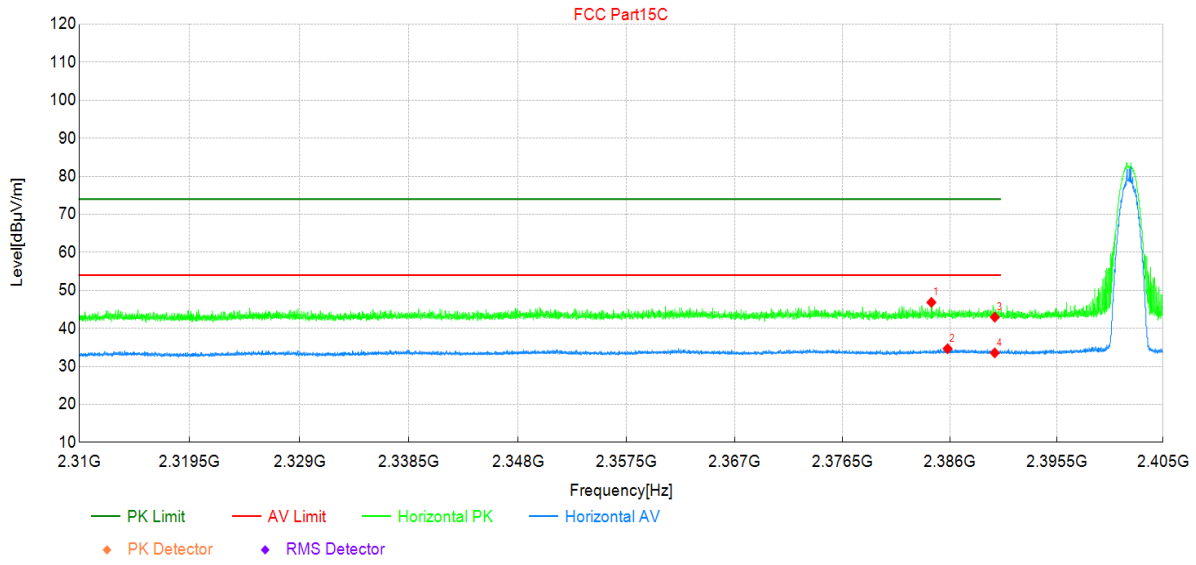
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	30.43	34.52	4.09	54.00	19.48	AV	Vertic	PASS
2	2484	40.62	44.71	4.09	74.00	29.29	PK	Vertic	PASS
3	2484	41.94	46.05	4.11	74.00	27.95	PK	Vertic	PASS
4	2485	31.09	35.20	4.11	54.00	18.80	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2402MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



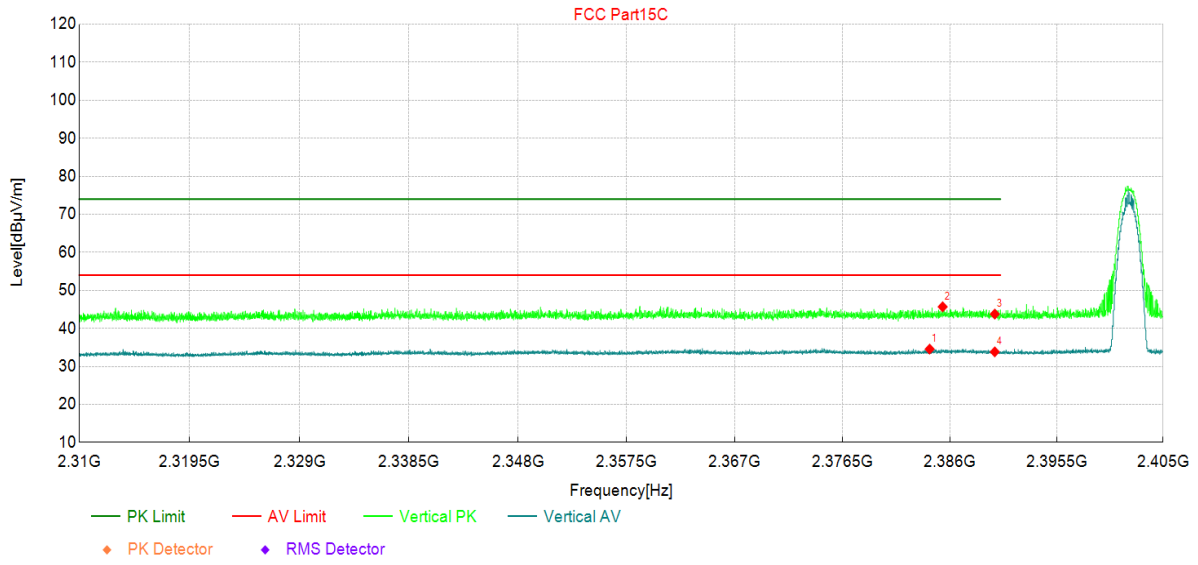
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2384	43.22	46.84	3.62	74.00	27.16	PK	Horizo	PASS
2	2386	31.03	34.66	3.63	54.00	19.34	AV	Horizo	PASS
3	2390	39.30	42.95	3.65	74.00	31.05	PK	Horizo	PASS
4	2390	29.89	33.54	3.65	54.00	20.46	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2402MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



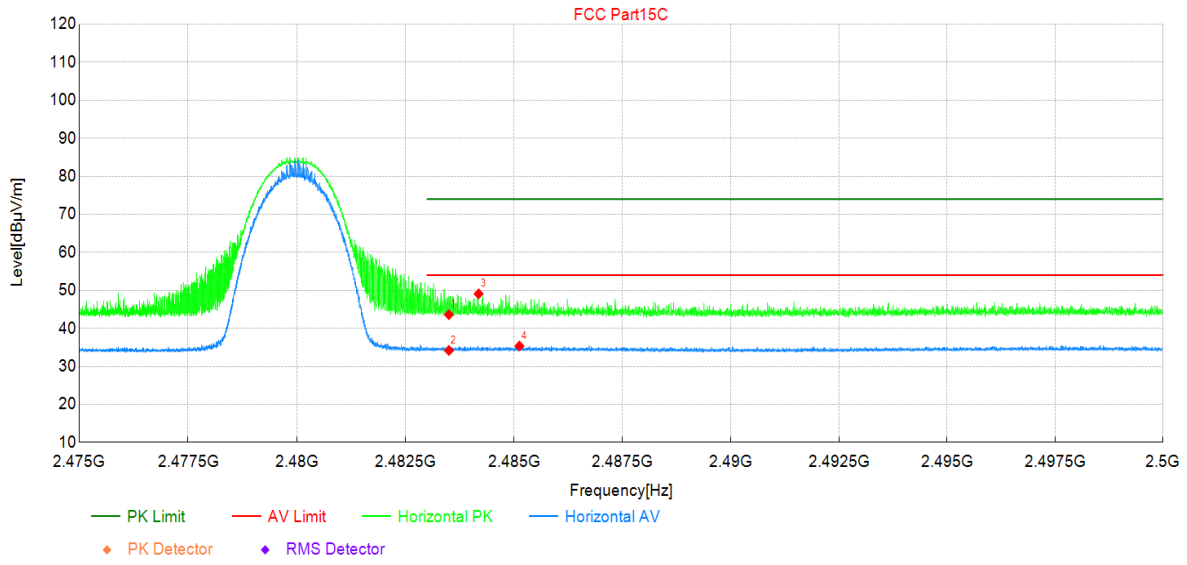
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2384	30.92	34.54	3.62	54.00	19.46	AV	Vertic	PASS
2	2385	42.04	45.67	3.63	74.00	28.33	PK	Vertic	PASS
3	2390	40.11	43.76	3.65	74.00	30.24	PK	Vertic	PASS
4	2390	30.17	33.82	3.65	54.00	20.18	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2480MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



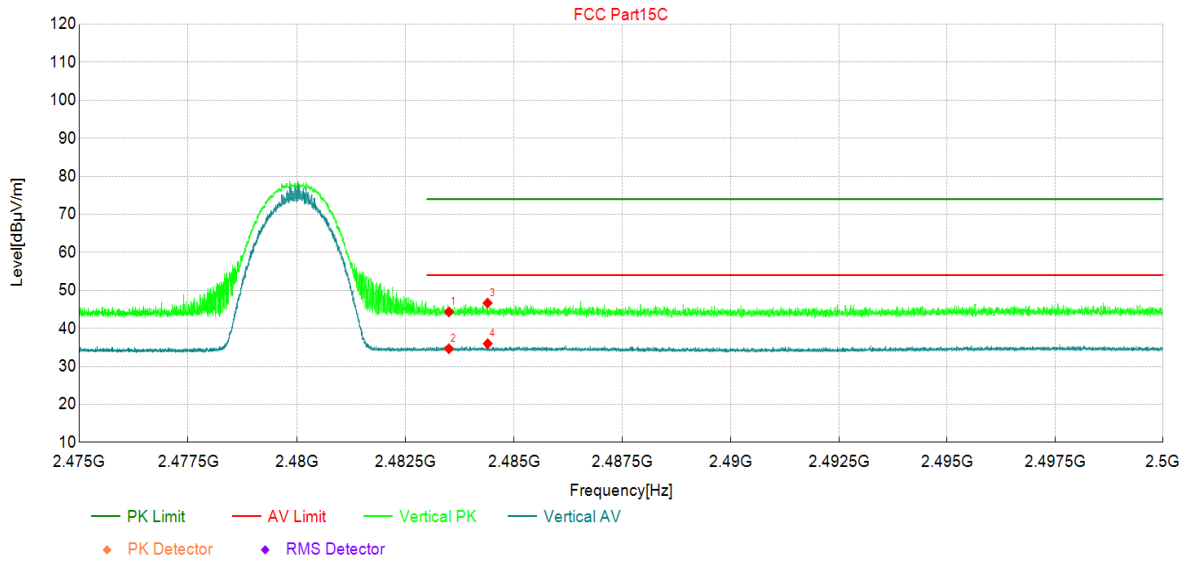
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	39.51	43.60	4.09	74.00	30.40	PK	Horizo	PASS
2	2484	30.10	34.19	4.09	54.00	19.81	AV	Horizo	PASS
3	2484	44.97	49.08	4.11	74.00	24.92	PK	Horizo	PASS
4	2485	31.24	35.35	4.11	54.00	18.65	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2480MHz by 3DH5	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph

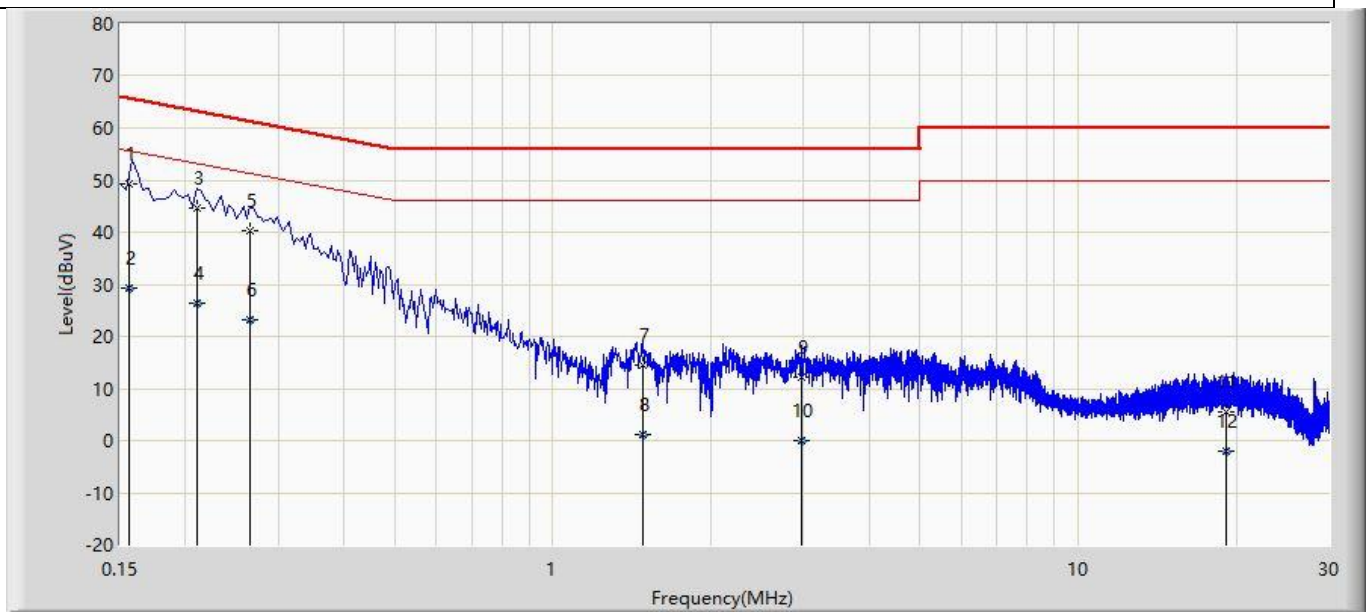


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	40.23	44.32	4.09	74.00	29.68	PK	Vertic	PASS
2	2484	30.55	34.64	4.09	54.00	19.36	AV	Vertic	PASS
3	2484	42.55	46.66	4.11	74.00	27.34	PK	Vertic	PASS
4	2484	31.87	35.98	4.11	54.00	18.02	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

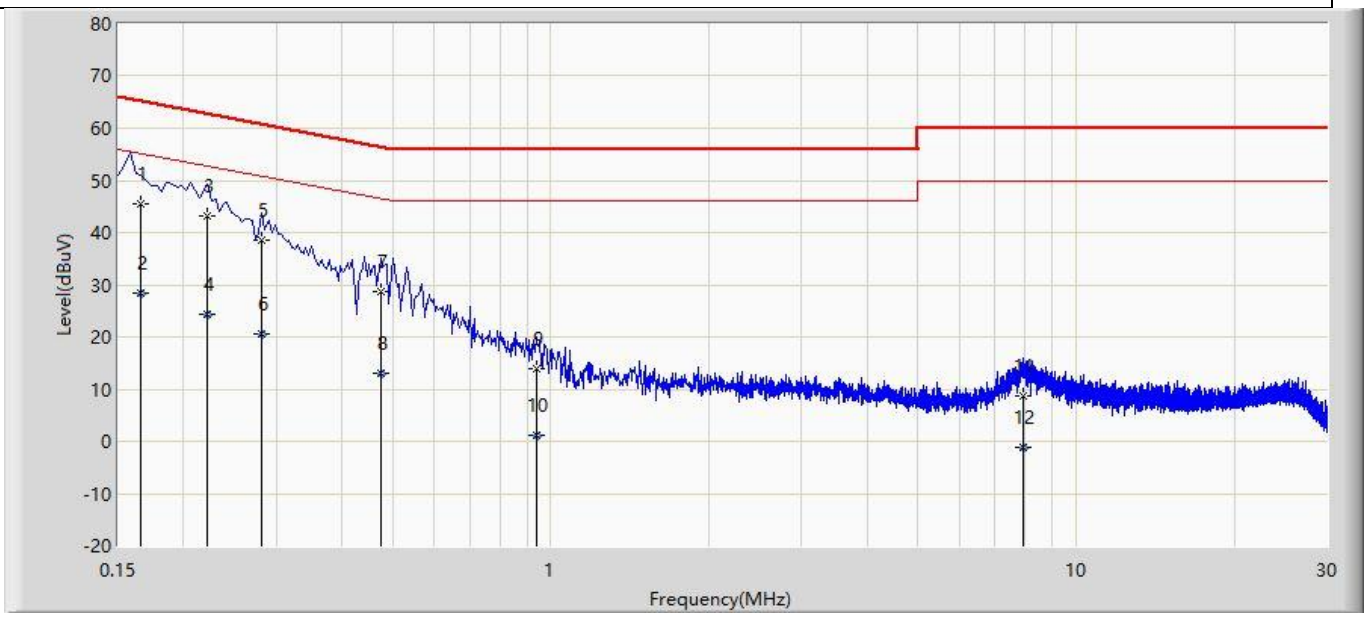
Appendix D: AC Power Line Conducted Emission

Profile: 24C0528R	Page No.: 1
Engineer: Yu Liu	
Site: TR1	Time: 2025/02/10 - 18:20
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Line
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: Mode 1:Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.156	49.321	39.696	-16.335	65.656	9.624	QP
2		0.156	29.331	19.707	-26.325	55.656	9.624	AV
3		0.210	44.561	34.938	-18.644	63.205	9.623	QP
4		0.210	26.331	16.708	-26.874	53.205	9.623	AV
5		0.266	40.273	30.648	-20.968	61.242	9.626	QP
6		0.266	23.283	13.657	-27.959	51.242	9.626	AV
7		1.482	14.587	4.905	-41.413	56.000	9.682	QP
8		1.482	1.054	-8.628	-44.946	46.000	9.682	AV
9		2.974	12.161	2.442	-43.839	56.000	9.720	QP
10		2.974	0.098	-9.622	-45.902	46.000	9.720	AV
11		19.170	5.431	-4.743	-54.569	60.000	10.174	QP
12		19.170	-2.134	-12.308	-52.134	50.000	10.174	AV

Profile: 24C0528R	Page No.: 2
Engineer: Yu Liu	
Site: TR1	Time: 2025/02/10 - 18:25
Limit: FCC_Part 15.207	Margin: 0
Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: Mode 1:Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.166	45.522	35.891	-19.652	65.174	9.631	QP
2		0.166	28.349	18.718	-26.825	55.174	9.631	AV
3		0.222	43.062	33.428	-19.682	62.744	9.633	QP
4		0.222	24.309	14.675	-28.435	52.744	9.633	AV
5		0.282	38.480	28.844	-22.276	60.757	9.636	QP
6		0.282	20.704	11.068	-30.052	50.757	9.636	AV
7		0.474	28.722	19.077	-27.721	56.444	9.645	QP
8		0.474	13.157	3.512	-33.287	46.444	9.645	AV
9		0.938	14.019	4.352	-41.981	56.000	9.667	QP
10		0.938	1.209	-8.459	-44.791	46.000	9.667	AV
11		7.910	8.658	-1.180	-51.342	60.000	9.838	QP
12		7.910	-1.247	-11.085	-51.247	50.000	9.838	AV

Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).
3. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.

The End