

TEST REPORT

Applicant: SHANTOU FEI XIONG TOYS FACTORY

Address of Applicant: CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE 515800, China

Manufacturer/Factory: SHANTOU FEI XIONG TOYS FACTORY

Address of Manufacturer/Factory: CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE 515800, China

Equipment Under Test (EUT)

Product Name: REMOTE CONTROL AIRCRAFT SERIES

Model No.: See section 5.1

FCC ID: 2A6TDFX5230608

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249

Date of sample receipt: August 12, 2026

Date of Test: August 13-21, 2026

Date of report issued: August 21, 2026

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



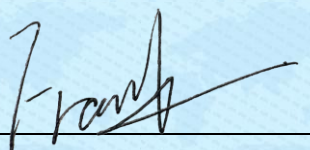
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	August 21, 2026	Original

Tested By:

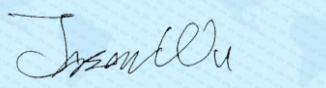


Test Engineer

Date:

August 21, 2026

Prepared By:

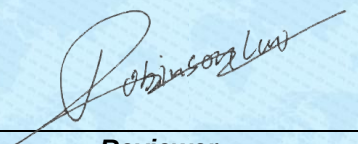


Project Engineer

Date:

August 21, 2026

Check By:



Reviewer

Date:

August 21, 2026

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Remarks:

1. Test according to ANSI C63.10:2020.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: not applicable

4.1 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	REMOTE CONTROL AIRCRAFT SERIES
Model No.:	FX520, FX523, FX535, FX601, FX501, FX502, FX503, FX518, FX519, FX520, FX521, FX528, FX535, FX601, FX602, FX606, FX608, FX620, FX622, FX623, FX628, FX630, FX632, FX635, FX651, FX652, FX653, FX657, FX801, FX802, FX803, FX805, FX807, FX815, FX816, FX817, FX818, FX819, FX820, FX822, FX823, FX828, FX830, FX835, FX861, FX862, FX863, FX8820, FX8821, FX8822, FX8823, FX8828, FX8829, FX8830, FX8831, FX8835, FX920, FX922, FX923, FX930, FX932, FX935, FX962, FX963, FX9501, FX9503, FX9505, FX9507, FX9508, FX9509, FX9601, FX9603, FX9605, FX9607, FX9610, FX9630, FX9631, FX9635, FX9651, FX9672, FX9701, FX9703, FX9705, FX9706, FX9707, FX9709, FX9720
Test Model No.:	FX523
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color, packing and model name for commercial purpose.	
Serial No.:	N/A
Test Sample(S) ID:	GTS2026080212-1
Sample(S) Status	Engineered sample
Operation Frequency:	2420MHz~2465MHz
Channel Numbers:	46
Channel Separation:	1MHz
Modulation Technology:	GFSK
Antenna Specification:	Wire Antenna
Antenna Gain:	0.17dBi(declare by applicant)
Power Supply:	DC 3V(2*1.5V Size“AAA” Battery)

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2420	13	2432	25	2444	37	2456
2	2421	14	2433	26	2445	38	2457
3	2422	15	2434	27	2446	39	2458
4	2423	16	2435	28	2447	40	2459
5	2424	17	2436	29	2448	41	2460
6	2425	18	2437	30	2449	42	2461
7	2426	19	2438	31	2450	43	2462
8	2427	20	2439	32	2451	44	2463
9	2428	21	2440	33	2452	45	2464
10	2429	22	2441	34	2453	46	2465
11	2430	23	2442	35	2454		
12	2431	24	2443	36	2455		

The test frequencies are below:

Channel	Frequency(MHz)
The lowest channel	2420
The middle channel	2445
The Highest channel	2465

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report (Only show the worst case:Y axis) and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	100.07	101.19	99.05

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC—Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 10, 2026	Apr. 09, 2031
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 10, 2026	Apr. 09, 2027
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 11, 2026	Apr. 10, 2027
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2026	Apr. 10, 2027
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul 17, 2026	Jul 16, 2027
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.22, 2025	Nov.21, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 10, 2026	Apr. 09, 2027
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 10, 2026	Apr. 09, 2027
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2026	Apr. 10, 2027
11	Spectrum analyzer (9kHz-40GHz)	Rohde & Schwarz	FSV40-N	GTS666	Mar. 10, 2026	Mar. 09, 2027
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 10, 2026	Apr. 09, 2027
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 24, 2025	Nov. 23, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 10, 2026	Apr. 09, 2027
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 13, 2026	Apr. 12, 2027
16	RE cable 1	GTS	N/A	GTS675	Jul. 17, 2026	Jul. 16, 2027
17	RE cable 2	GTS	N/A	GTS676	Jul. 17, 2026	Jul. 16, 2027
18	RE cable 3	GTS	N/A	GTS677	Jul. 17, 2026	Jul. 16, 2027
19	RE cable 4	GTS	N/A	GTS678	Jul. 17, 2026	Jul. 16, 2027
20	RE cable 5	GTS	N/A	GTS679	Jul. 17, 2026	Jul. 16, 2027
21	RE cable 6	GTS	N/A	GTS680	Jul. 17, 2026	Jul. 16, 2027
22	RE cable 7	GTS	N/A	GTS681	Jul. 22, 2026	Jul. 21, 2027
23	RE cable 8	GTS	N/A	GTS682	Jul. 22, 2026	Jul. 21, 2027
24	CE cable 9	GTS	N/A	GTS683	Jul. 23, 2026	Jul. 22, 2027
25	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 10, 2026	Apr. 09, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Jun. 03, 2026	Jun. 02, 2027
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 10, 2026	Apr. 09, 2027
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 10, 2026	Apr. 09, 2027
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 10, 2026	Apr. 09, 2027
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 10, 2026	Apr. 09, 2027
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 10, 2026	Apr. 09, 2027
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 10, 2026	Apr. 09, 2027
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 10, 2026	Apr. 09, 2027
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 14, 2026	Apr. 13, 2027
11	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 01, 2025	Oct. 31, 2026

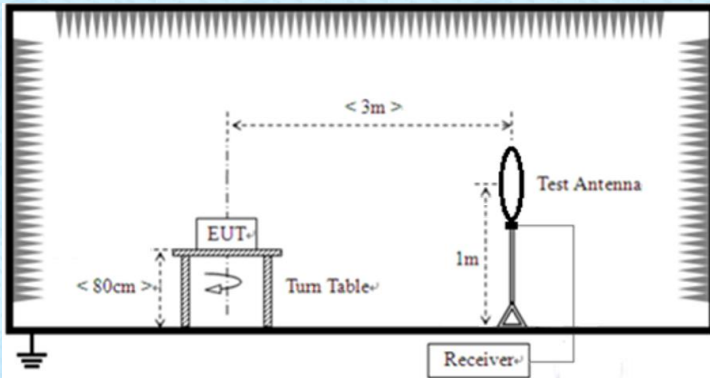
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 21, 2026	Jul. 20, 2027

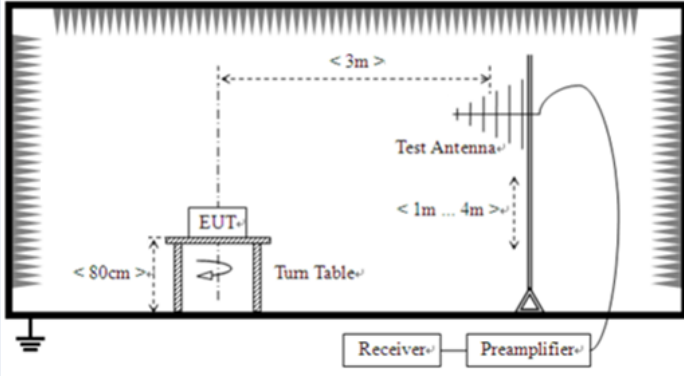
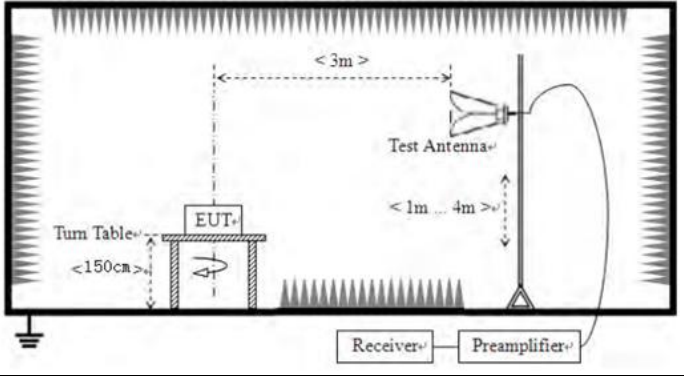
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is wire antenna, reference to the appendix II for details.	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit: (Spurious Emissions)	Frequency		Limit (uV/m)		Remark
	0.009MHz-0.490MHz		2400/F(kHz) @300m		Quasi-peak Value
	0.490MHz-1.705MHz		24000/F(kHz) @30m		Quasi-peak Value
	1.705MHz-30.0MHz		30 @30m		Quasi-peak Value
	30MHz-88MHz		100 @3m		Quasi-peak Value
	88MHz-216MHz		150 @3m		Quasi-peak Value
	216MHz-960MHz		200 @3m		Quasi-peak Value
	960MHz-1GHz		500 @3m		Quasi-peak Value
	Above 1GHz		500 @3m		Average Value
5000 @3m			Peak Value		
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	For radiated emissions from 9kHz to 30MHz				
					
	For radiated emissions from 30MHz to1GHz				

	 For radiated emissions above 1GHz 						
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	<table><tr><td>Temp.:</td><td>25 °C</td><td>Humid.:</td><td>52%</td><td>Press.:</td><td>1012mbar</td></tr></table>	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	DC 3V						
Test results:	Pass						

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Channel (MHz)	Read Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Final Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2420.00	2423.274436	99.17	27.34	4.12	38.88	91.75	114.00	-22.25	Vertical
2420.00	2423.209236	106.05	27.34	4.12	38.88	98.63	114.00	-15.37	Horizontal
2445.00	2448.397436	96.77	27.39	4.12	38.89	89.39	114.00	-24.61	Vertical
2445.00	2448.393936	108.57	27.39	4.12	38.89	101.19	114.00	-12.81	Horizontal
2465.00	2468.539536	98.32	27.46	4.13	38.89	91.02	114.00	-22.98	Vertical
2465.00	2468.535556	107.32	27.46	4.13	38.89	100.02	114.00	-13.98	Horizontal

Average value:

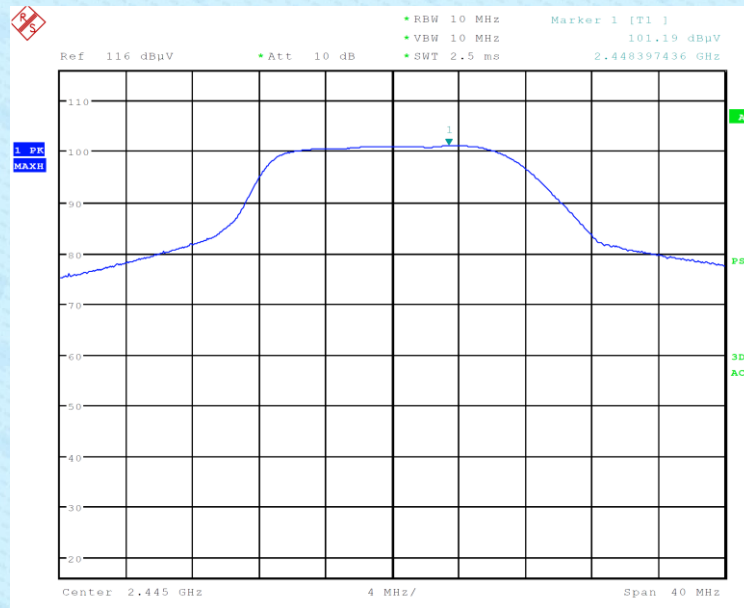
Channel (MHz)	Read Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Final Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2420.00	2419.344674	76.23	27.34	4.12	38.88	68.81	94.00	-25.19	Vertical
2420.00	2419.340854	79.51	27.34	4.12	38.88	72.09	94.00	-21.91	Horizontal
2445.00	2444.358974	73.72	27.39	4.12	38.89	66.34	94.00	-27.66	Vertical
2445.00	2444.354244	90.64	27.39	4.12	38.89	83.26	94.00	-10.74	Horizontal
2465.00	2464.419244	74.46	27.46	4.13	38.89	67.16	94.00	-26.84	Vertical
2465.00	2464.415744	85.35	27.46	4.13	38.89	78.05	94.00	-15.95	Horizontal

Note:

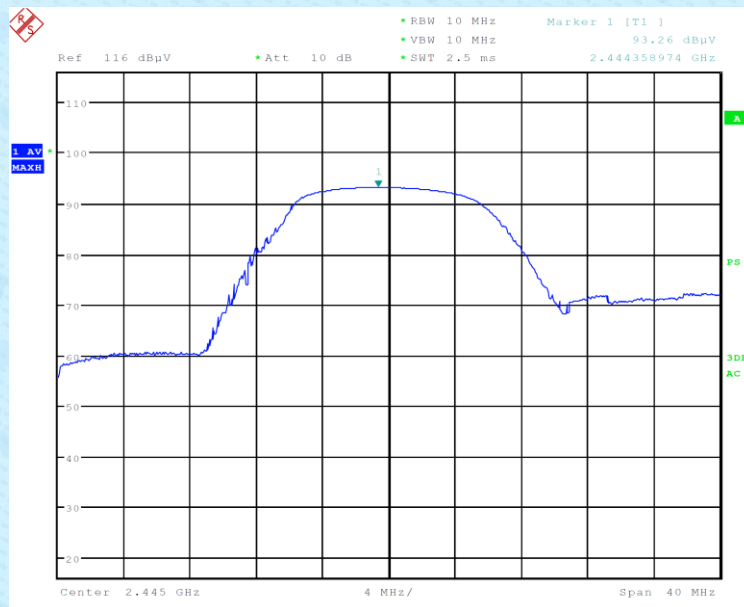
1. For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value
2. Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss(dB)–Preamplifier Factor(dB)

Test plot as follows:

Only show the worst case: 2445MHz, Vertical



PK detector is for PK value



RMS detector is for AV value

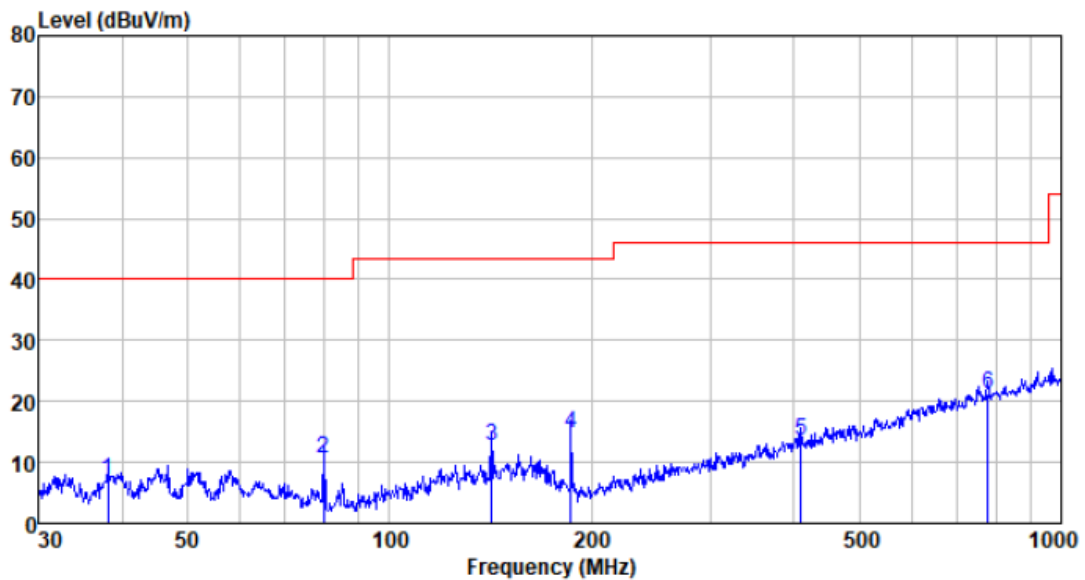
7.2.2 Spurious emissions

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

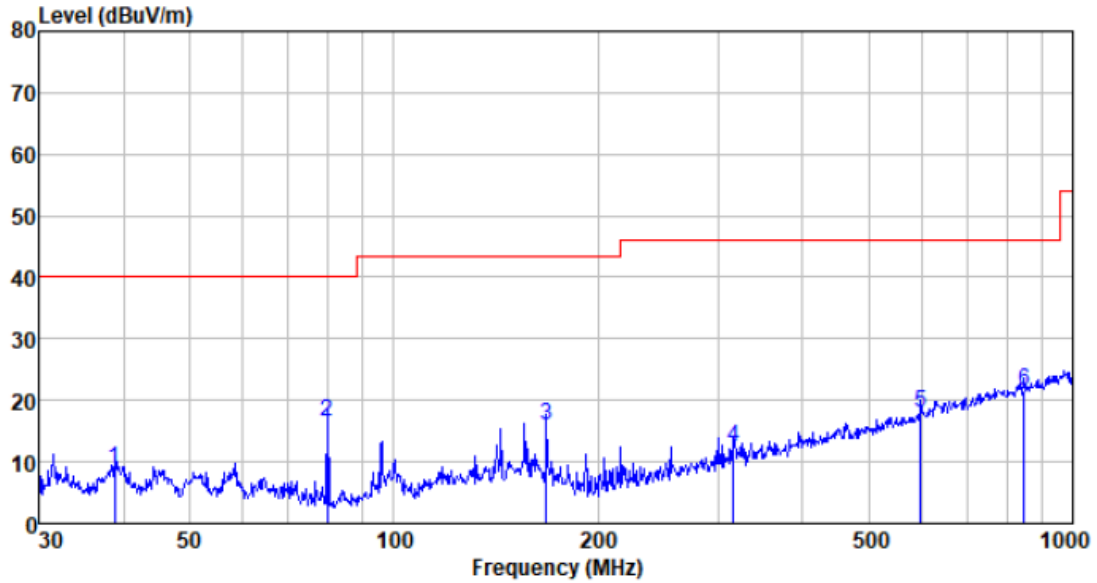
Pre-scan all test modes, found worst case at 2445MHz, and so only show the test result of it
Horizontal



Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Vertical



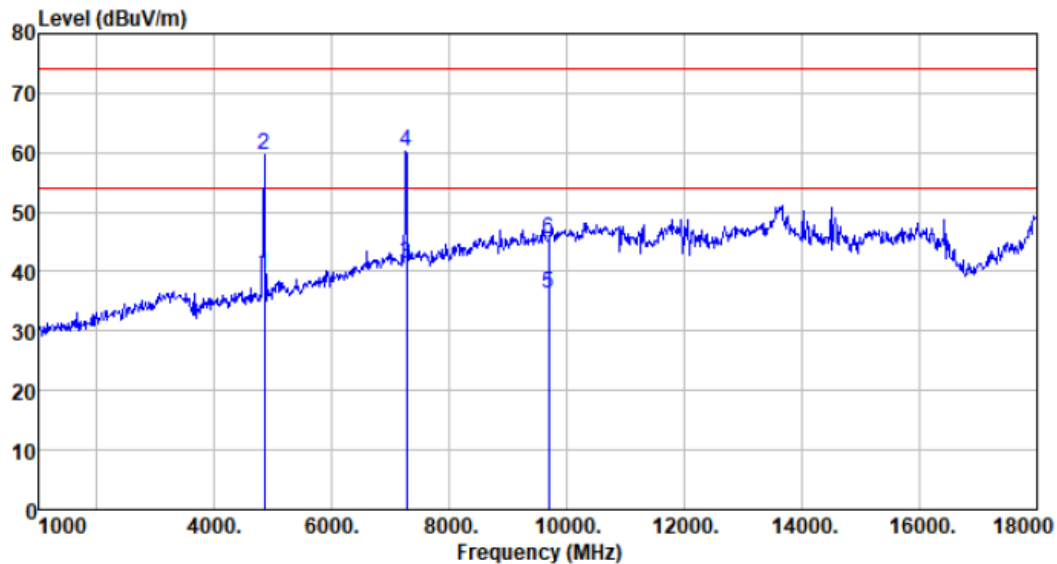
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
38.752	27.57	13.50	1.29	33.40	8.96	40.00	-31.04	QP
79.800	38.95	9.00	1.83	33.33	16.45	40.00	-23.55	QP
167.824	33.60	12.92	2.47	33.15	15.84	43.50	-27.66	QP
316.589	27.95	13.53	3.66	32.88	12.26	46.00	-33.74	QP
597.223	26.31	18.99	5.16	32.44	18.02	46.00	-27.98	QP
848.056	25.15	21.96	6.24	31.69	21.66	46.00	-24.34	QP

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

■ Above 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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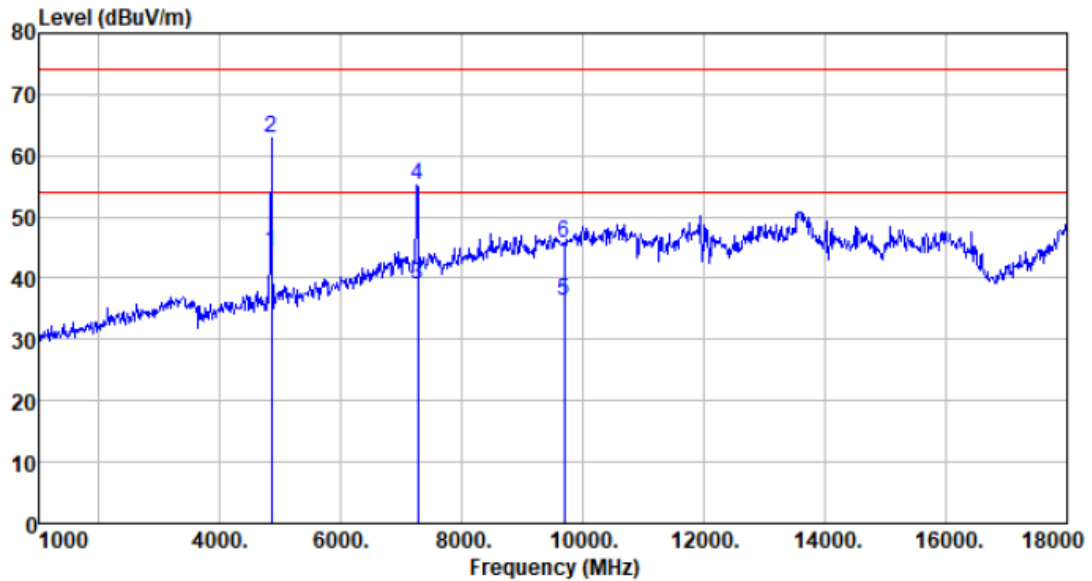


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	39.45	32.44	5.61	38.00	39.50	54.00	-14.50	Average
4840.000	59.67	32.44	5.61	38.00	59.72	74.00	-14.28	Peak
7260.000	35.64	36.52	7.21	38.01	41.36	54.00	-12.64	Average
7260.000	54.46	36.52	7.21	38.01	60.18	74.00	-13.82	Peak
9680.000	28.27	38.20	9.12	39.20	36.39	54.00	-17.61	Average
9680.000	37.44	38.20	9.12	39.20	45.56	74.00	-28.44	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Lowest	Polarization:	Vertical
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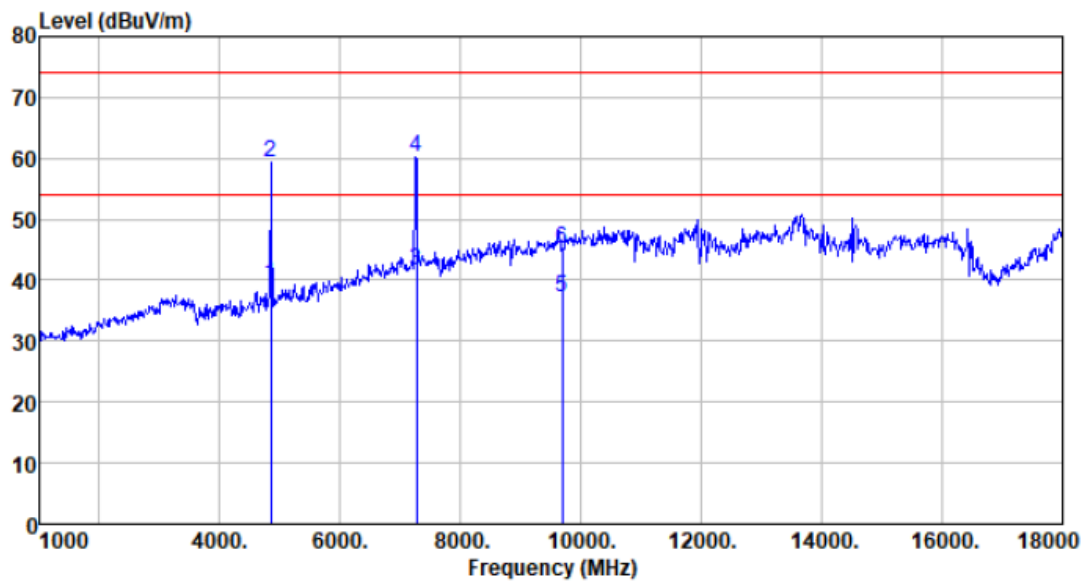


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	44.32	32.44	5.61	38.00	44.37	54.00	-9.63	Average
4840.000	62.97	32.44	5.61	38.00	63.02	74.00	-10.98	Peak
7260.000	33.11	36.52	7.21	38.01	38.83	54.00	-15.17	Average
7260.000	49.46	36.52	7.21	38.01	55.18	74.00	-18.82	Peak
9680.000	28.11	38.20	9.12	39.20	36.23	54.00	-17.77	Average
9680.000	37.70	38.20	9.12	39.20	45.82	74.00	-28.18	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Horizontal
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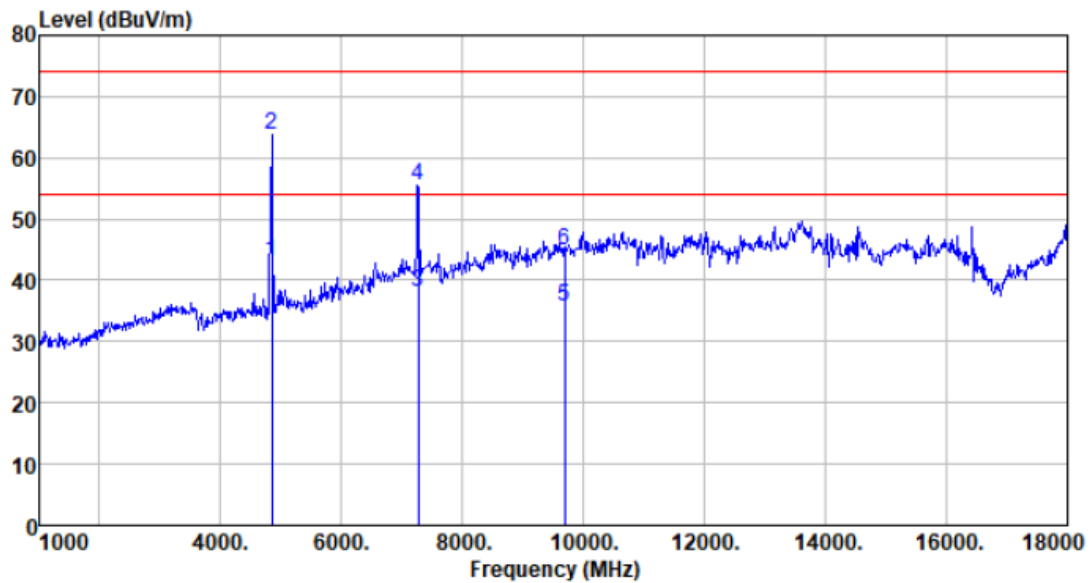


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	39.25	32.44	5.61	38.00	39.30	54.00	-14.70	Average
4840.000	59.39	32.44	5.61	38.00	59.44	74.00	-14.56	Peak
7260.000	35.82	36.52	7.21	38.01	41.54	54.00	-12.46	Average
7260.000	54.50	36.52	7.21	38.01	60.22	74.00	-13.78	Peak
9680.000	29.10	38.20	9.12	39.20	37.22	54.00	-16.78	Average
9680.000	37.06	38.20	9.12	39.20	45.18	74.00	-28.82	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Middle	Polarization:	Vertical
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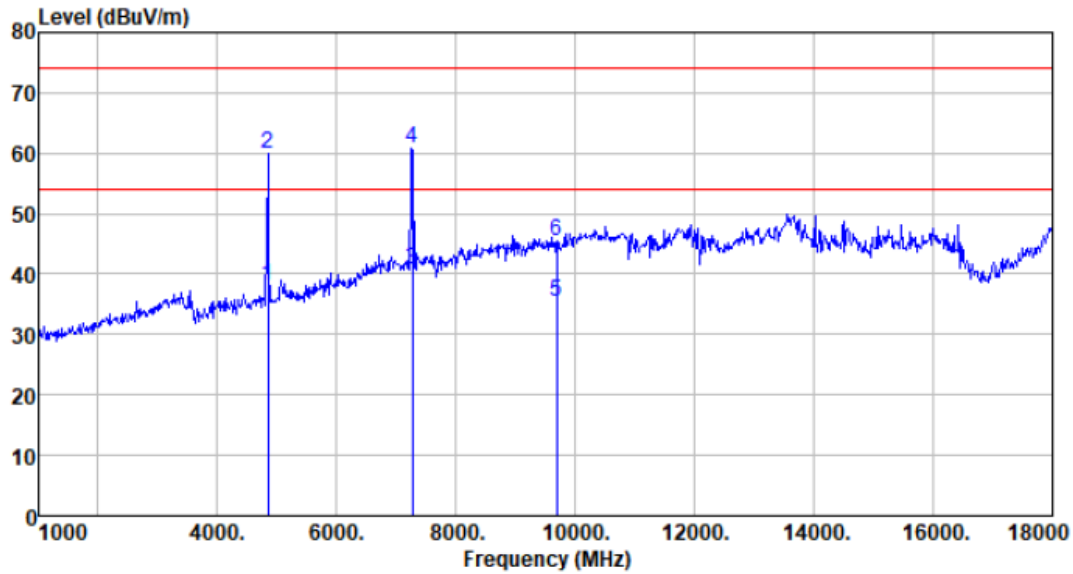


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	43.19	32.44	5.61	38.00	43.24	54.00	-10.76	Average
4840.000	63.58	32.44	5.61	38.00	63.63	74.00	-10.37	Peak
7260.000	32.24	36.52	7.21	38.01	37.96	54.00	-16.04	Average
7260.000	49.90	36.52	7.21	38.01	55.62	74.00	-18.38	Peak
9680.000	27.65	38.20	9.12	39.20	35.77	54.00	-18.23	Average
9680.000	36.73	38.20	9.12	39.20	44.85	74.00	-29.15	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Horizontal
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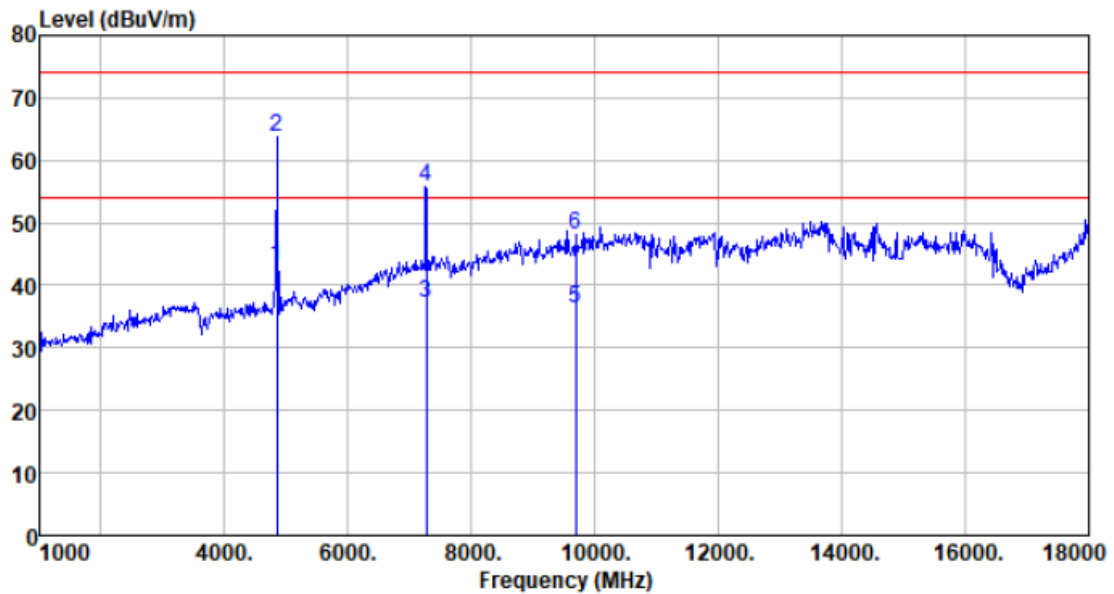


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	38.13	32.44	5.61	38.00	38.18	54.00	-15.82	Average
4840.000	59.91	32.44	5.61	38.00	59.96	74.00	-14.04	Peak
7260.000	35.00	36.52	7.21	38.01	40.72	54.00	-13.28	Average
7260.000	55.10	36.52	7.21	38.01	60.82	74.00	-13.18	Peak
9680.000	27.17	38.20	9.12	39.20	35.29	54.00	-18.71	Average
9680.000	37.29	38.20	9.12	39.20	45.41	74.00	-28.59	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Vertical
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Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
4840.000	43.15	32.44	5.61	38.00	43.20	54.00	-10.80	Average
4840.000	63.74	32.44	5.61	38.00	63.79	74.00	-10.21	Peak
7260.000	31.35	36.52	7.21	38.01	37.07	54.00	-16.93	Average
7260.000	49.94	36.52	7.21	38.01	55.66	74.00	-18.34	Peak
9680.000	28.32	38.20	9.12	39.20	36.44	54.00	-17.56	Average
9680.000	39.94	38.20	9.12	39.20	48.06	74.00	-25.94	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

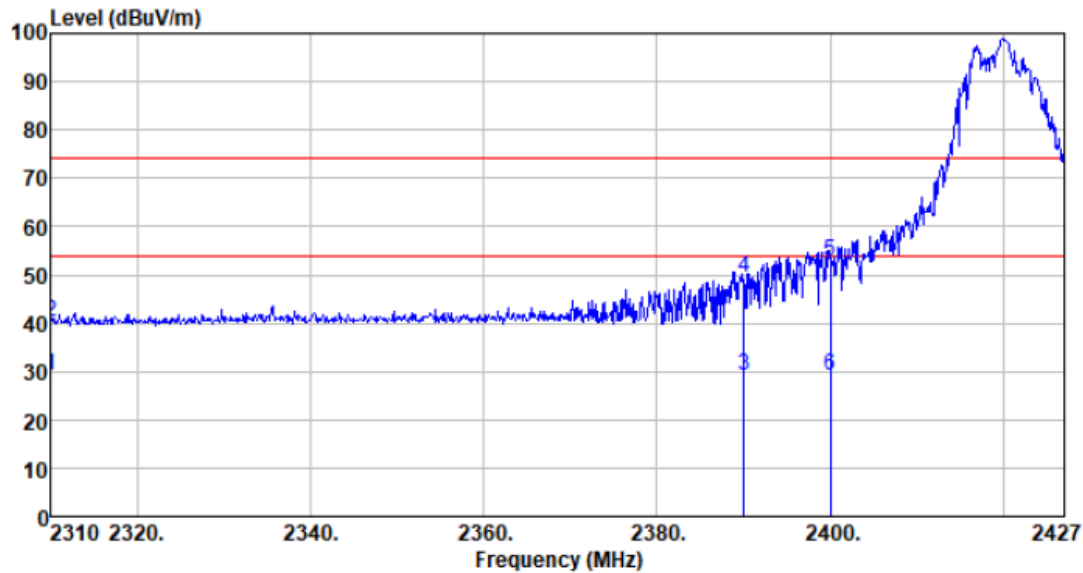
Note:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.
2. For above 18GHz, no emission found.
3. If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.

7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest	Polarization:	Horizontal
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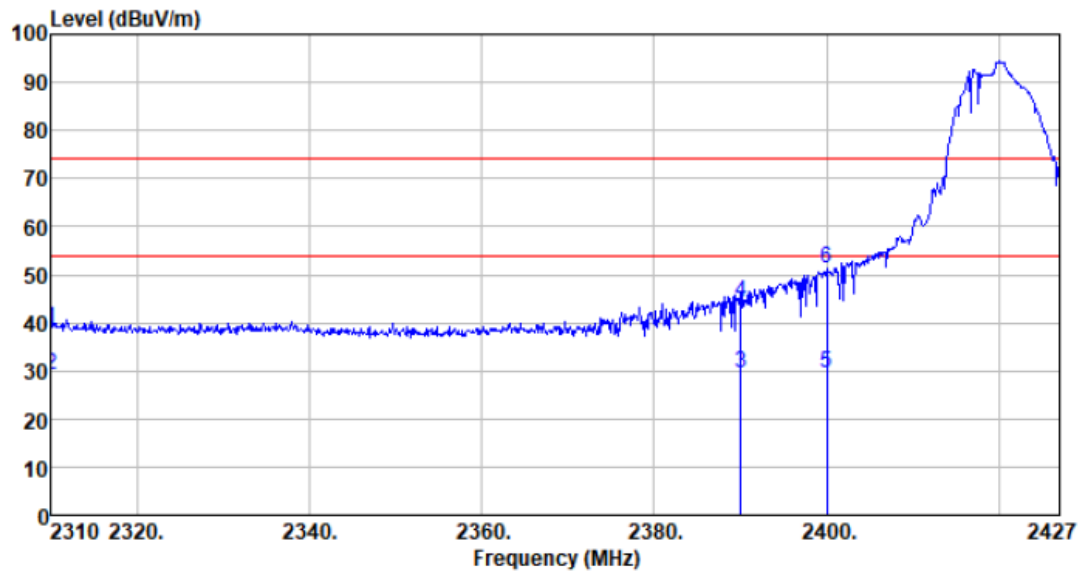


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	37.26	26.66	4.09	38.86	29.15	54.00	-24.85	Average
2310.000	48.34	26.66	4.09	38.86	40.23	74.00	-33.77	Peak
2390.000	37.19	26.62	4.11	38.88	29.04	54.00	-24.96	Average
2390.028	57.66	26.62	4.11	38.88	49.51	74.00	-24.49	Peak
2399.973	61.20	26.43	4.11	38.88	52.86	74.00	-21.14	Peak
2400.000	37.37	26.43	4.11	38.88	29.03	54.00	-24.97	Average

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Lowest	Polarization:	Vertical
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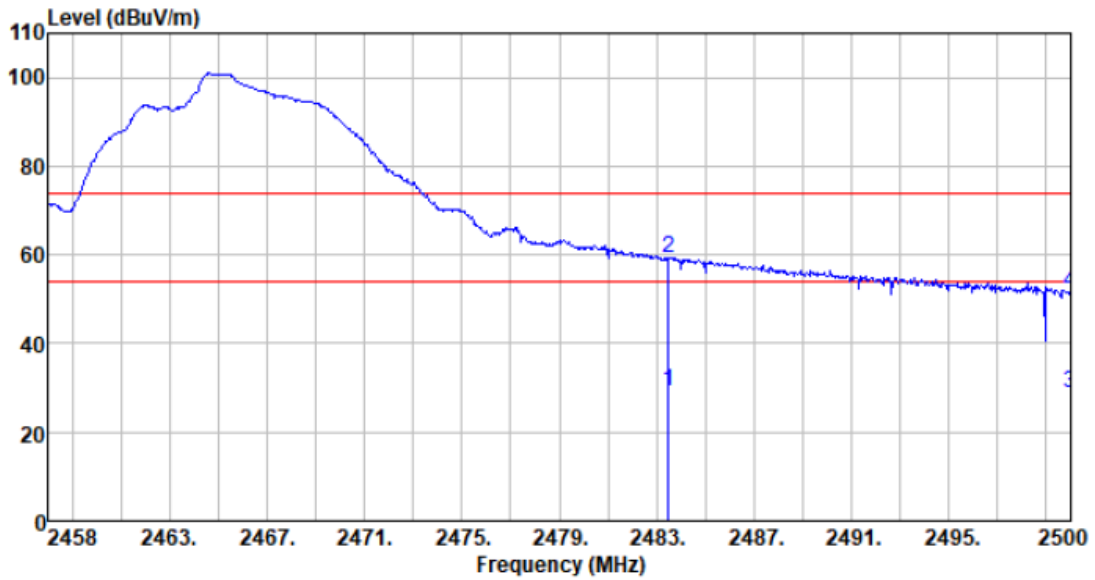


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2310.000	45.30	28.05	4.09	38.86	38.58	54.00	-15.42	Average
2310.000	35.74	28.05	4.09	38.86	29.02	74.00	-44.98	Peak
2390.000	37.10	27.03	4.11	38.88	29.36	54.00	-24.64	Average
2390.000	52.14	27.03	4.11	38.88	44.40	74.00	-29.60	Peak
2400.000	37.26	26.94	4.11	38.88	29.43	54.00	-24.57	Average
2400.000	59.06	26.94	4.11	38.88	51.23	74.00	-22.77	Peak

Remarks:

$$\text{Final level (dBuV/m)} = \text{Reading level (dBuV)} + \text{Antenna factor (dB/m)} + \text{Cable loss (dB)} - \text{Preamp Factor (dB)}$$

Test channel:	Highest	Polarization:	Horizontal
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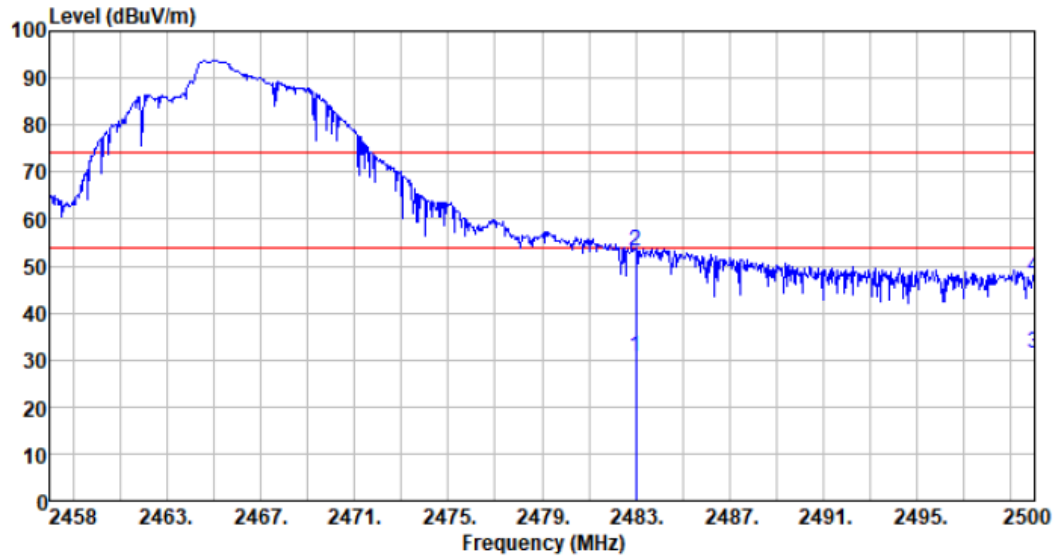


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.500	37.30	26.78	4.13	38.90	29.31	54.00	-24.69	Average
2483.500	67.26	26.78	4.13	38.90	59.27	74.00	-14.73	Peak
2500.000	37.11	26.48	4.14	38.90	28.83	54.00	-25.17	Average
2500.000	59.84	26.48	4.14	38.90	51.56	74.00	-22.44	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

Test channel:	Highest	Polarization:	Vertical
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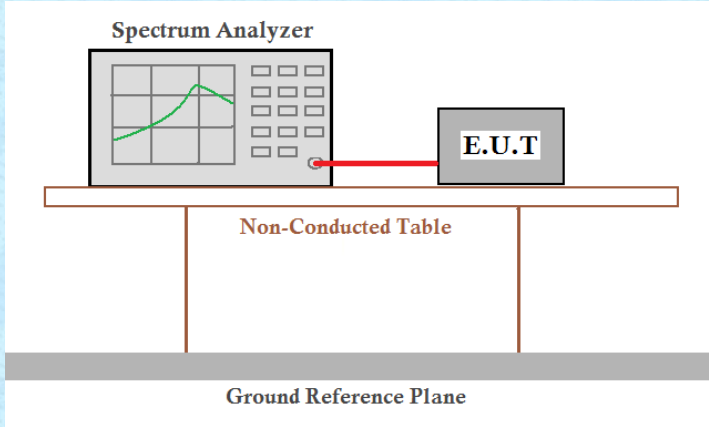


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Final level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
2483.000	37.34	28.21	4.13	38.90	30.78	54.00	-23.22	Average
2483.000	59.62	28.21	4.13	38.90	53.06	74.00	-20.94	Peak
2500.000	37.38	28.63	4.14	38.90	31.25	54.00	-22.75	Average
2500.000	53.64	28.63	4.14	38.90	47.51	74.00	-26.49	Peak

Remarks:

Final level(dBuV/m) = Reading level(dBuV) + Antenna factor(dB/m) + Cable loss(dB) - Preamp Factor(dB)

7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2020
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	6.766	Pass
Middle	5.761	Pass
Highest	6.355	Pass

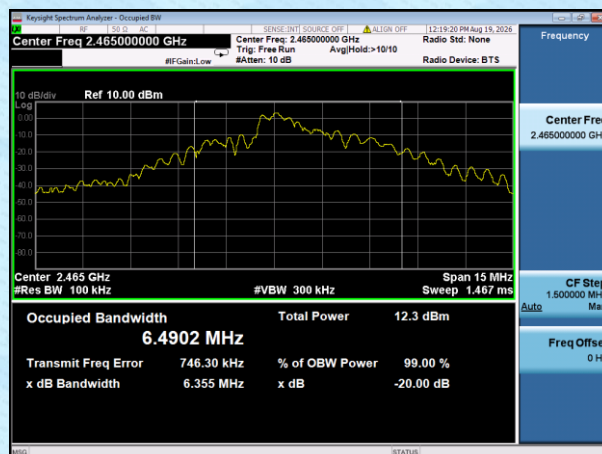
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----