

## **FCC 15.247 & RSS-247 2.4 GHz Test Report**

**for**

**FUTABA Corporation**

**1080 Yabutsuka Chosei-mura Chosei-gun Chiba-ken  
299-4395 JAPAN**

**Product Name : Radio Control**  
**Model Name : T10PX**  
**Brand : Futaba**  
**FCC ID : AZPT10PX-24G**  
**IC : 2914D-T10PX**

**Prepared by: : AUDIX Technology Corporation,  
EMC Department**



The test report is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

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## TEST REPORT

Applicant : FUTABA Corporation  
Manufacturer : FUTABA Corporation  
EUT Description  
(1) Product : Radio Control  
(2) Model : T10PX  
(3) Brand : Futaba  
(4) Power Supply: DC 4.0 ~ 8.5V

### Applicable Standards:

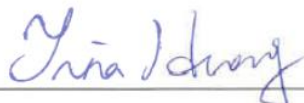
Title 47 CFR FCC Part 15 Subpart C  
RSS-Gen (Issue 5), Amendment 2, February 2021  
RSS-247 (Issue 2), February 2017  
ANSI C63.10:2013

**Audix Technology Corp.** tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

**Audix Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

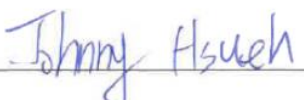
Date of Report: 2021. 11. 23

Reviewed by:



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## 1. REVISION RECORD OF TEST REPORT

Edition No	Issued Date	Revision Summary	Report Number
0	2021. 11. 23	Original Report	EM-F210833

## 2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	<b>PASS</b>
15.247(d)/15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	<b>PASS</b>
15.247(a)(1)	RSS-247 §5.1(2)	20dB/Occupied Bandwidth	<b>PASS</b>
15.247(a)(1)	RSS-247 §5.1(2)	Carrier Frequency Separation	<b>PASS</b>
15.247(a)(1)(iii)	RSS-247 §5.1(4)	Time of Occupancy	<b>PASS</b>
15.247(a)(1)(iii)	RSS-247 §5.1(4)	Number of Hopping Channels	<b>PASS</b>
15.247(b)(1)	RSS-247 §5.1(2)	Maximum Peak Output Power	<b>PASS</b>
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	<b>PASS</b>
15.203	---	Antenna Requirement	<b>Compliance</b>

Note: The uncertainties value is not used in determining the result.

### 3. GENERAL INFORMATION

#### 3.1. Description of Application

Applicant	FUTABA Corporation 1080 Yabutsuka Chosei-mura Chosei-gun Chiba-ken, 299-4395 Japan.
Manufacturer	FUTABA Corporation 1080 Yabutsuka Chosei-mura Chosei-gun Chiba-ken, 299-4395 Japan.
Product	Radio Control
Brand	Futaba
Model Number	T10PX

### 3.2. Description of EUT

Test Model	T10PX		
Serial Number	N/A		
Power Rating	DC 4.0 ~ 8.5V		
RF Features	T-FHSS, T-FHSS SR, S-FHSS, F-4G		
Transmit Type	1T1R		
Sample Status	Trial sample		
Test Sample	Sample No.	Test Item	Firmware
	-01	all test item	N/A
Date of Receipt	2021. 08. 09		
Date of Test	2021. 11. 01 ~ 22		
Interface Ports of EUT	<ul style="list-style-type: none"><li>• Communication Port x 1</li><li>• Earphone Jack x 1</li><li>• Charging Jack x 1 (For NiMH LiFe Battery)</li><li>• Charging Jack x 1 (For Lipo Battery)</li><li>• USB-C Port x 1</li><li>• Micro SD Card Slot</li></ul>		
Accessories Supplied	None		

### 3.3. Antenna Information

No.	Antenna Type	Manufacture	Antenna Part Number	Frequency (MHz)	Max Gain (dBi)
1.	1/2λ di-pole antenna	SANSEI	ANTB24-094A0	2400 - 2500	1.48



### 3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (kbps)
S-FHSS	2403.25 – 2447.50	60	FHSS	128
T-FHSS	2407.50 - 2467.50	31	FHSS	384
T-FHSS SR	2407.50 - 2467.50	31	FHSS	384
F-4G	2406.00 – 2478.00	37	FHSS	1000

S-FHSS							
Channel List							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2403.25	16	2414.50	31	2425.75	46	2437.00
2	2404.00	17	2415.25	32	2426.50	47	2437.75
3	2404.75	18	2416.00	33	2427.25	48	2438.50
4	2405.50	19	2416.75	34	2428.00	49	2439.25
5	2406.25	20	2417.50	35	2428.75	50	2440.00
6	2407.00	21	2418.25	36	2429.50	51	2440.75
7	2407.75	22	2419.00	37	2430.25	52	2441.50
8	2408.50	23	2419.75	38	2431.00	53	2442.25
9	2409.25	24	2420.50	39	2431.75	54	2443.00
10	2410.00	25	2421.25	40	2432.50	55	2443.75
11	2410.75	26	2422.00	41	2433.25	56	2444.50
12	2411.50	27	2422.75	42	2434.00	57	2445.25
13	2412.25	28	2423.50	43	2434.75	58	2446.00
14	2413.00	29	2424.25	44	2435.50	59	2446.75
15	2413.75	30	2425.00	45	2436.25	60	2447.50

T-FHSS/T-FHSS SR							
Channel List							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2407.50	9	2423.50	17	2439.50	25	2455.50
2	2409.50	10	2425.50	18	2441.50	26	2457.50
3	2411.50	11	2427.50	19	2443.50	27	2459.50
4	2413.50	12	2429.50	20	2445.50	28	2461.50
5	2415.50	13	2431.50	21	2447.50	29	2463.50
6	2417.50	14	2433.50	22	2449.50	30	2465.50
7	2419.50	15	2435.50	23	2451.50	31	2467.50
8	2421.50	16	2437.50	24	2453.50		

F-4G							
Channel List							
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
1	2406.00	11	2426.00	21	2446.00	31	2466.00
2	2408.00	12	2428.00	22	2448.00	32	2468.00
3	2410.00	13	2430.00	23	2450.00	33	2470.00
4	2412.00	14	2432.00	24	2452.00	34	2472.00
5	2414.00	15	2434.00	25	2454.00	35	2474.00
6	2416.00	16	2436.00	26	2456.00	36	2476.00
7	2418.00	17	2438.00	27	2558.00	37	2478.00
8	2420.00	18	2440.00	28	2460.00		
9	2422.00	19	2442.00	29	2462.00		
10	2424.00	20	2444.00	30	2464.00		

### 3.5. Description of Key Components

None

### 3.6. Test Configuration

Mode	Duty Cycle (x)	TX <sub>on</sub> (ms)	TX <sub>on+off</sub> (ms)	Duty Cycle Correction Factor (dB)
S-FHSS	N/A	3.045	>100	-30.33
T-FHSS	N/A	0.420	37.20	-38.95
F-4G	N/A	0.171	22.20	-42.27

Note: Duty Cycle Correction Factor (DCCF) =  $20\log(TX_{on}/TX_{on+off})$

“TX<sub>on+off</sub>” means the period of the pulse train or 100ms if the pulse train length is greater than 100ms



AC Conduction	
Test Case	Charge Mode (EUT link to AC adapter)
	Charge Mode (EUT's battery link to AC adapter)

Item	Modulation	Test Channel	
Radiated Test Case	Radiated Band Edge <sup>Note1</sup>	S-FHSS	1/60
		T-FHSS	1/31
		F-4G	1/37
	Radiated Spurious Emission <sup>Note1</sup>	S-FHSS	1/30/60
		T-FHSS	1/15/31
		F-4G	1/19/37

Item	Modulation	Test Channel	
Conducted Test Case	20dB Bandwidth	S-FHSS	1/30/60
		T-FHSS	1/15/31
		F-4G	1/19/37
	Carrier Frequency Separation	S-FHSS	1/30/60
		T-FHSS	1/15/31
		F-4G	1/19/37
	Time of Occupancy	S-FHSS	1/30/60
		T-FHSS	1/15/31
		T-FHSS SR	1/15/31 <sup>Note A</sup>
		F-4G	1/19/37
	Number of Hopping Channels	S-FHSS	1/30/60
		T-FHSS	1/15/31
		F-4G	1/19/37
	Maximum Peak Output Power	S-FHSS	1/30/60
		T-FHSS	1/15/31
		F-4G	1/19/37

Item		Modulation	Test Channel
Conducted Test Case	Band Edges	S-FHSS	1/60
		T-FHSS	1/31
		F-4G	1/37
	Spurious Emission	S-FHSS	1/30/60
		T-FHSS	1/16/31
		F-4G	1/19/37

Note A: This system is similar to T-FHSS system, the difference is frame length from 3ms to 1.2ms. The purpose of this change is to get quick response. So this test item would be test.

Note 1:  Mobile Device

Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:  Lie  Side  Stand

Note 2: After pre-tested the mode T-FHSS and T-FHSS SR, the T-FHSS is worst case and present test data in the report.

### 3.7. Tested Supporting System List

#### 3.7.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	Approval
1.	AC Adapter Wall-mount, 2C (DC 5V)	APD	WB-10G05R	N/A	N/A
2.	Power Socket	N/A	N/A	N/A	N/A
3.	Micro SD Card (4GB)	Transcend	N/A	N/A	N/A
4.	Earphone	APPLE	N/A	N/A	N/A
5.	Battery #1 (DC 6V)	Futaba	HT5F1800B	N/A	N/A
	Battery #2 (DC 7.4V)	Futaba	LT2F2000B	N/A	N/A

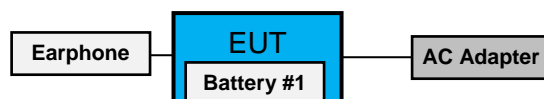
#### 3.7.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	Type C Cable: Shielded, Detachable, 1.0m
2.	AC Power Cable: Non-shielded, Undetachable, 1.8m
3.	N/A
4.	Earphone Cable: Non-shielded, Undetachable, 0.9m
5.	N/A

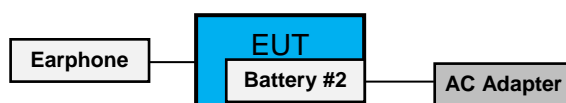
### 3.8. Setup Configuration

#### 3.8.1. EUT Configuration for Power Line Emission

- Charge mode (EUT link to AC adapter Link)

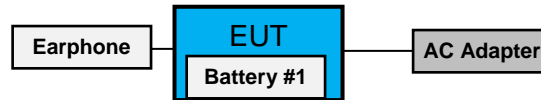


- Charge mode (EUT's battery link to AC adapter Link)

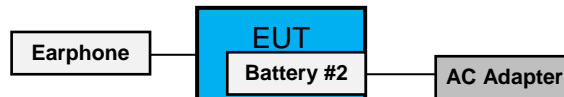


### 3.8.2. EUT Configuration for Radiated Emission

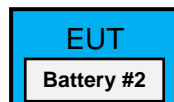
- Charge mode (EUT link to AC adapter Link)



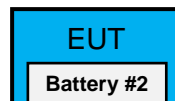
- Charge mode (EUT's battery link to AC adapter Link)



- Transmit Mode



### 3.8.3. EUT Configuration for RF Conducted Test Items



## 3.9. Operating Condition of EUT

- Charge Mode: The EUT or EUT's battery connects the AC adapter on charge mode.
- Transmit Mode: Press the button of the EUT is used for enabling EUT RF function under continues transmitting and choosing mode/channel.

### 3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 491, Zhongfu Rd., Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2017 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724
Test Facilities	FCC OET Designation Number under APEC MRA by NCC is : TW1724 ISED CAB Identifier Number under APEC TEL MRA by NCC is TW1724 (1) No.8 Shielded Room (2) No.1 3m Semi Anechoic Chamber



### 3.11. Measurement Uncertainty

Test Items/Facilities		Frequency Range	Uncertainty	
Conduction Test		9kHz-150kHz	±3.7dB	
		150kHz-30MHz	±3.4dB	
Radiation Test	<input checked="" type="checkbox"/>	No.1 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.8dB
			200MHz-1000MHz, 3m, Horizontal	±4.1dB
			30MHz-200MHz, 3m, Vertical	±4.5dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
			1GHz-6GHz, 3m	±4.7dB
			6GHz-18GHz, 3m	±4.1dB
	<input type="checkbox"/>	No.3 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±3.9dB
			200MHz-1000MHz, 3m, Horizontal	±4.2dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.5dB
	<input type="checkbox"/>	No.4 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.1dB
			200MHz-1000MHz, 3m, Horizontal	±4.5dB
			30MHz-200MHz, 3m, Vertical	±4.4dB
			200MHz-1000MHz, 3m, Vertical	±4.8dB
			1GHz-6GHz, 3m	±5.0dB
			6GHz-18GHz, 3m	±4.7dB
	<input type="checkbox"/>	No.5 3m Semi Anechoic Chamber	30MHz-200MHz, 3m, Horizontal	±4.2dB
			200MHz-1000MHz, 3m, Horizontal	±4.3dB
			30MHz-200MHz, 3m, Vertical	±4.3dB
			200MHz-1000MHz, 3m, Vertical	±4.7dB
1GHz-6GHz, 3m			±4.8dB	
6GHz-18GHz, 3m			±4.5dB	
<input type="checkbox"/>	Fully Anechoic Chamber	30MHz~1000MHz	±4.6dB	
		1GHz~18GHz	±5.4dB	
		18GHz~40GHz	±3.52dB	
		40GHz~260GHz	±3.56dB	

Remark : Uncertainty =  $ku_c(y)$

Test Item	Uncertainty
20dB Bandwidth	±0.2kHz
99% Occupied Bandwidth	±0.38%
Carrier Frequency Separation	±0.2kHz
Time of Occupancy	±0.03sec
Maximum peak Output power	± 0.52dB
Conducted Emission Limitations	± 0.13dB

## 4. MEASUREMENT EQUIPMENTLIST

### 4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2021. 02. 02	1 Year
2.	A.M.N.	R&S	ENV432	101567	2021. 04. 21	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2020. 12. 10	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2021. 01. 04	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.8 S/R	2021. 04. 15	1 Year
6.	Coaxial Cable	Yeida	RG/58AU	CE-08	2021. 09. 13	1 Year
7.	Test Software	Audix	e3	V6.120619c	N.C.R.	N.C.R.

### 4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2021. 09. 09	1 Year
2.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2021. 04. 14	1 Year
3.	Test Receiver	R&S	ESCS30	100338	2021. 06. 17	1 Year
4.	Amplifier	HP	8447D	2944A06305	2021. 01. 14	1 Year
5.	Microwave Preamplifier	HP	8449B	3008A02678	2021. 02. 19	1 Year
6.	Microwave Amplifier	Keysight	83051A	MY53010042	2021. 07. 30	1 Year
7.	2.4GHz Notch Filter	K&L Microwave	7NSL10-2441 .5/E130.5-O/O	1	2021 .07. 24	1 Year
8.	Notch Filter	Microwave	H3G018G1	484796	2021. 07. 24	1 Year
9.	Loop Antenna	R&S	HFH2-Z2	891847/27	2019. 12. 26	2 Years
10.	Bilog Antenna	TESEQ	CBL6112D	33821	2021. 07. 16	1 Year
11.	Horn Antenna	ETS-Lindgren	3117	00135902	2021. 03. 19	1 Year
12.	Horn Antenna	COM-POWER	AH-840	101092	2021 .01. 05	1 Year
13.	Coaxial Cable	MIYAZAKI	5D2W	RE-11	2021. 01. 29	1 Year
14.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 106	RE-14	2021. 01. 29	1 Year
15.	Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	RE-30	2021. 08. 25	1 Year
16.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2021. 04. 15	1 Year
17.	Test Software	Audix	e3	V6.120619c	N.C.R.	1 Year

### 4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Keysight	N9020B-544	MY57120357	2021. 01. 06	1 Year
2.	Digital Thermo-Hygro Meter	iMax	HTC-1	RF-03	2021. 04. 15	1 Year

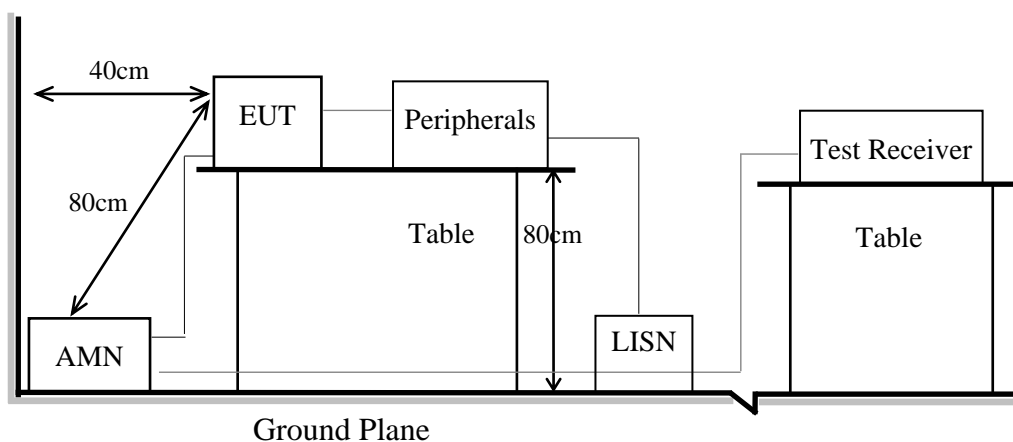
## 5. CONDUCTED EMISSION

### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block Diagram of EUT

Indicated as section 3.8

#### 5.1.2. Shielded Room Setup Diagram



### 5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB $\mu$ V	56 ~ 46 dB $\mu$ V
500kHz ~ 5MHz	56 dB $\mu$ V	46 dB $\mu$ V
5MHz ~ 30MHz	60 dB $\mu$ V	50 dB $\mu$ V

Remark1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

### 5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150kHz to 30 MHz and record the emission which does not have 20 dB below limit.

### 5.4. Test Results

Please refer to Appendix A.

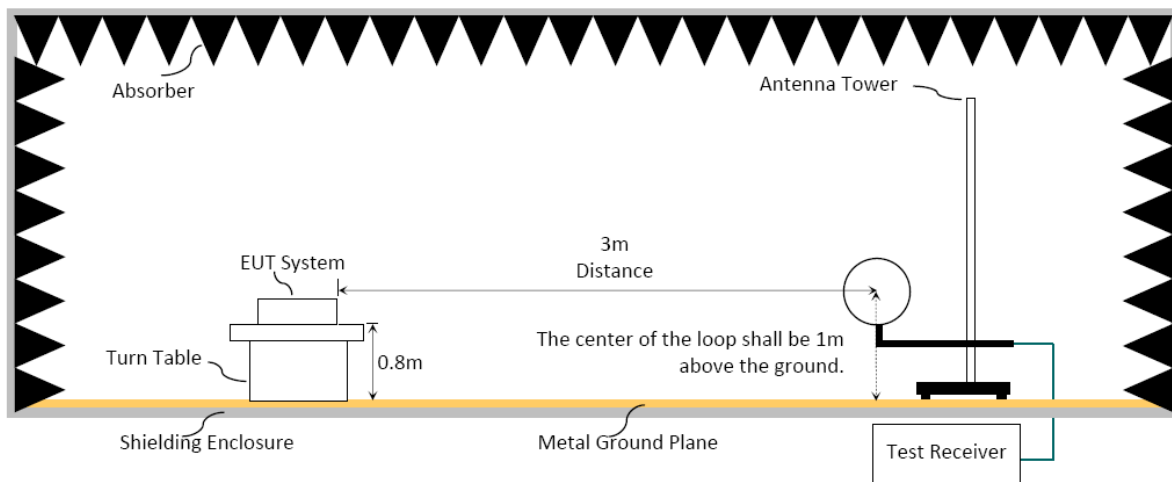
## 6. RADIATED EMISSION

### 6.1. Block Diagram of Test Setup

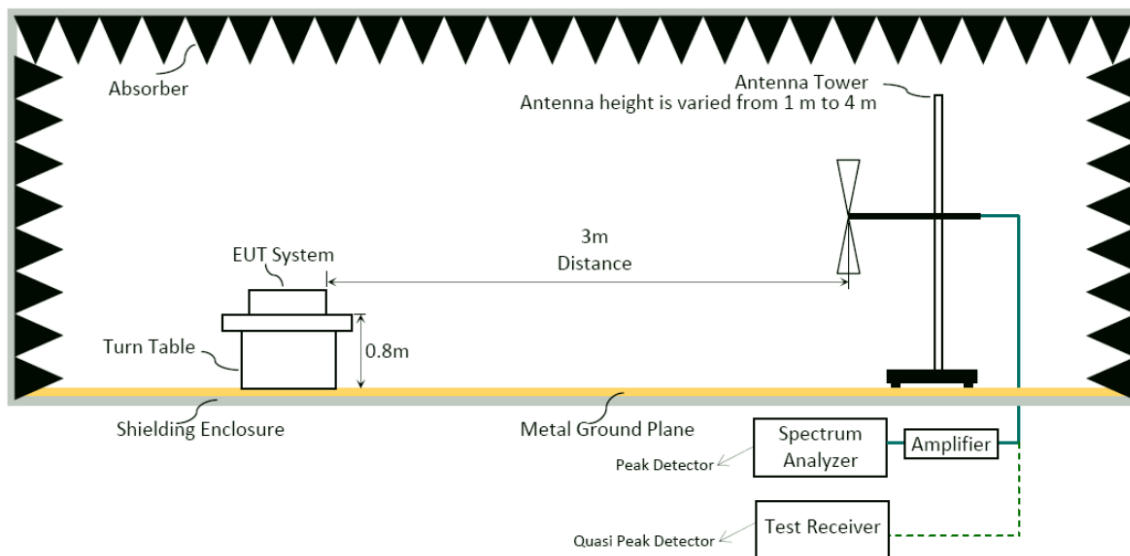
#### 6.1.1. Block Diagram of EUT

Indicated as section 3.8

#### 6.1.2. Setup Diagram for 9kHz-30MHz

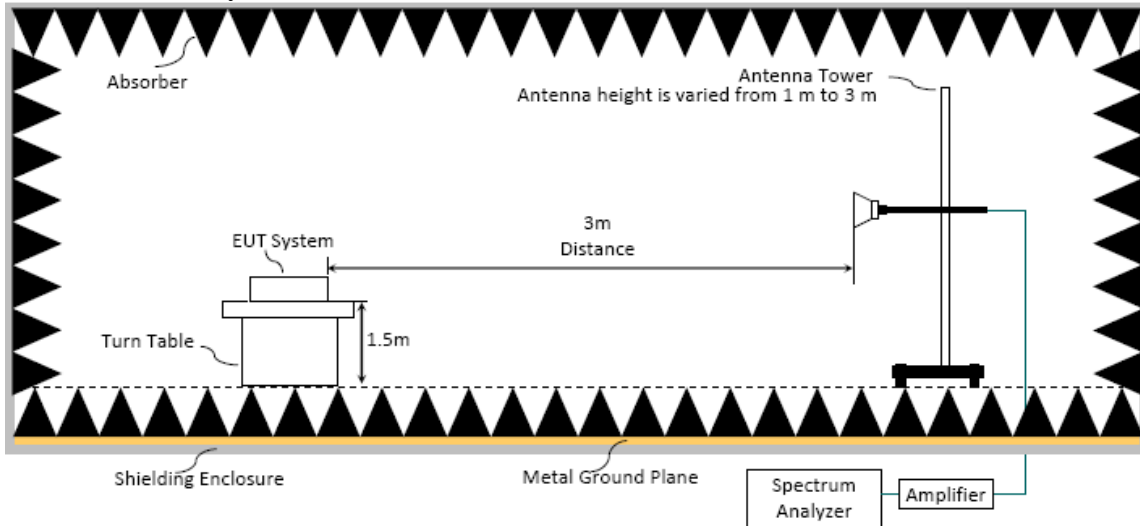


#### 6.1.3. Setup Diagram for 30-1000MHz

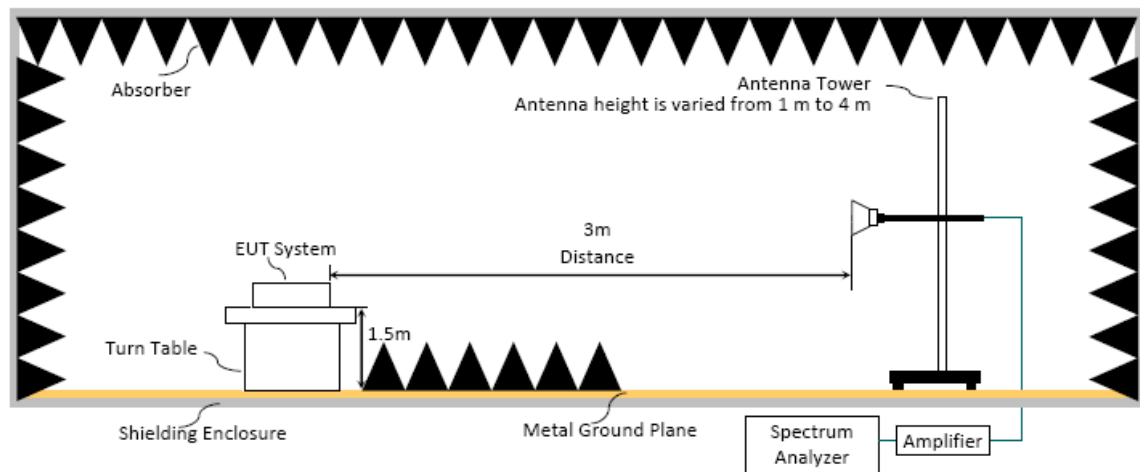


### 6.1.4. Setup Diagram for above 1GHz

#### Fully Anechoic Chamber



#### Semi Anechoic Chamber



### 6.3. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance(m)	Limits	
		dB $\mu$ V/m	$\mu$ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB $\mu$ V/m (Peak) 54.0 dB $\mu$ V/m (Average)	

Remark : (1) dB $\mu$ V/m = 20 log ( $\mu$ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

## 6.4. Test Procedure

### Frequency Range 9kHz~30MHz:

The EUT setup on the turntable which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)  
Q.P. (490kHz-30MHz)

### Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turntable which has 80cm (for 30-1000MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m (for 30-1000MHz) and from 1m to 4m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

### Frequency below 1GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW  $\geq 3 \times$  RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.

Note 1: When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Note 2: When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

### Frequency above 1GHz to 10th harmonic(up to 25 GHz):

#### Peak Detector:

- (1)RBW = 1MHz
- (2)VBW  $\geq 3 \times$  RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.

Note: When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.



**Average Detector:** **Option 1:**

- (1) RBW = 1MHz
- (2) VBW  $\geq 1/T$ .
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.

 **Option 2:**

Average Emission Level(dB $\mu$ V/m) = Peak Emission Level(dB $\mu$ V/m) + D.C.C.F.

## 6.5. Measurement Result Explanation

Peak Emission Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Cable Loss(dB) + Meter Reading(dB) (including Preamp factor if test used)

Average Emission Level(dB $\mu$ V/m) = Antenna Factor (dB/m) + Cable Loss(dB) + Meter Reading(dB) (including Preamp factor if test used)

Average Emission Level(dB $\mu$ V/m) = Peak Emission Level(dB $\mu$ V/m) + DCCF

Duty Cycle Correction Factor (DCCF) =  $20\log(TX_{on}/TX_{on+off})$  presented in section 3.6

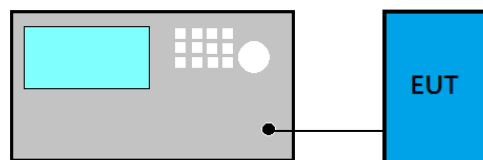
ERP = Peak Emission Level(dB $\mu$ V/m) - 95.2dB - 2.14dB

## 6.6. Test Results

Please refer to Appendix A.

## 7. 20dB/OCCUPIED BANDWIDTH

### 7.1. Block Diagram of Test Setup



### 7.2. Specification Limits

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

### 7.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

#### For 20dB Bandwidth

- (1) Set Span range 2~5 times the OBW
- (2) Set VBW  $\geq 3 \times$  RBW.
- (3) Detector = Peak.
- (4) Trace mode = Max hold.
- (5) Sweep = Auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

#### For 99% Occupied Bandwidth

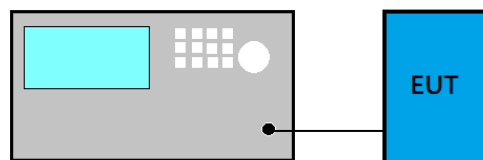
- (8) Set Span range 1.5~5 times the OBW
- (9) Set RBW close to 1% to 5% of OBW.
- (10) Set VBW  $\geq 3 \times$  RBW.
- (11) Detector = Peak.
- (12) Trace mode = Max hold
- (13) Sweep = Auto couple.
- (14) Allow the trace to stabilize.

### 7.4. Test Results

Please refer to Appendix A

## 8. CARRIER FREQUENCY SEPARATION

### 8.1. Block Diagram of Test Setup



### 8.2. Specification Limits

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output no greater than 125mW.

### 8.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

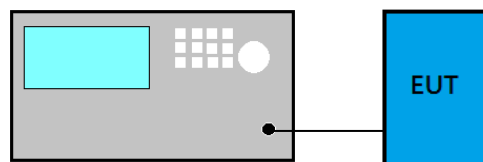
- (1) Span = Wide enough to capture the peaks of two adjacent channels
- (2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- (3)  $VBW \geq RBW$
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = Max hold
- (7) Allow the trace to stabilize.

### 8.4. Test Results

Please refer to Appendix A

## 9. TIME OF OCCUPANCY

### 9.1. Block Diagram of Test Setup



### 9.2. Specification Limits

Frequency hopping systems in the 2400-2483.5MHz shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by number of hopping channels employed.

### 9.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

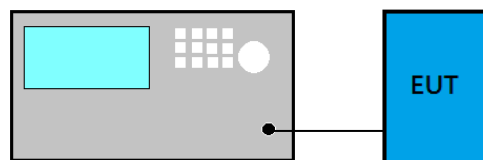
- (1) Span: Zero span, centered on a hopping channel.
- (2) RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1/T$ , where T is the expected dwell time per channel.
- (3) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- (4) Detector function = Peak
- (5) Trace = Max hold

### 9.4. Test Results

Please refer to Appendix A

## 10. NUMBER OF HOPPING CHANNELS

### 10.1. Block Diagram of Test Setup



### 10.2. Specification Limits

Frequency hopping systems which use fewer than 20 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels.

### 10.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

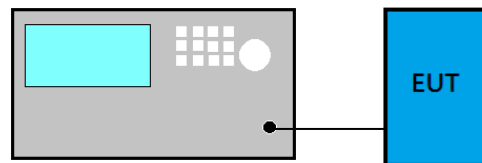
- (1) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- (2) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- (3) VBW  $\geq$  RBW
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = m=Max hold
- (7) Allow the trace to stabilize.

### 10.4. Test Results

Please refer to Appendix A

## 11. MAXIMUM PEAK OUTPUT POWER

### 11.1. Block Diagram of Test Setup



### 11.2. Specification Limits

The Limits of maximum Peak Output Power for frequency hopping systems in 2400-2483.5MHz is: 0.125Watt. (21dBm)

### 11.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

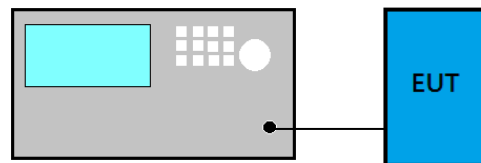
- (a) Use the following spectrum analyzer settings
  - (1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
  - (2) RBW > 20 dB bandwidth of the emission being measured.
  - (3) VBW  $\geq$  RBW
  - (4) Sweep: Auto
  - (5) Detector function: Peak
  - (6) Trace: Max hold
- (b) Allow trace to stabilize.
- (c) Use the marker-to-peak function to set the marker to the peak of the emission.

### 11.4. Test Results

Please refer to Appendix A

## 12. EMISSION LIMITATIONS

### 12.1. Block Diagram of Test Setup



### 12.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

### 12.3. Test Procedure

Following measurement procedure is reference to ANSI C63.10:2013:

- (1) Set span wide enough to capture the peak level of the in-band emission and all spurious emissions; up to 10<sup>th</sup> harmonic.
- (2) RBW = 100 kHz
- (3) VBW  $\geq$  RBW
- (4) Sweep = Auto
- (5) Detector function = Peak
- (6) Trace = Max hold

### 12.4. Test Results

Please refer to Appendix A



## **13.DEVIATION TO TEST SPECIFICATIONS**

**【NONE】**





# APPDNDIX A

## TEST DATA AND PLOTS

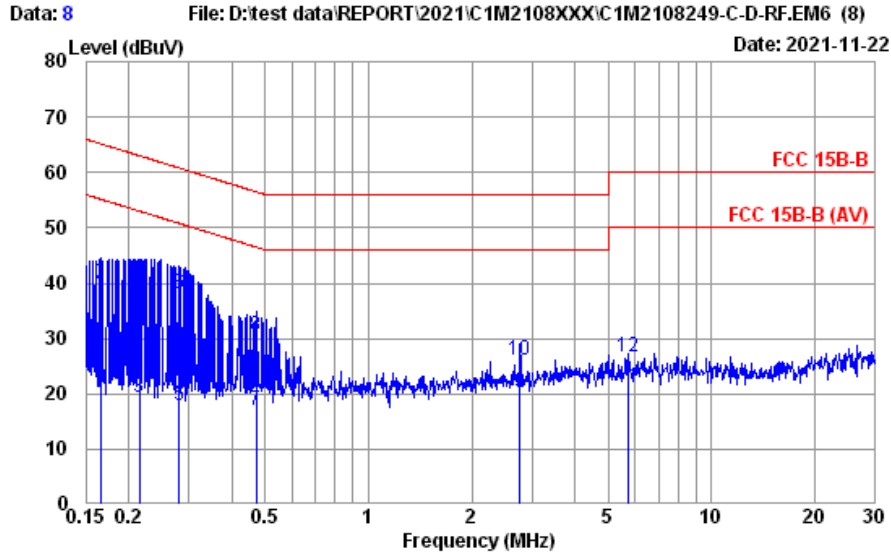
(Model: T10PX)

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## A.1 CONDUCTED EMISSION

Test Date	2021/11/22	Temp./Hum.	25°C/52%
Test Mode	Charge	Tested By	Roy Hung
Test Voltage	AC 120V/60Hz (EUT link to AC adapter)		

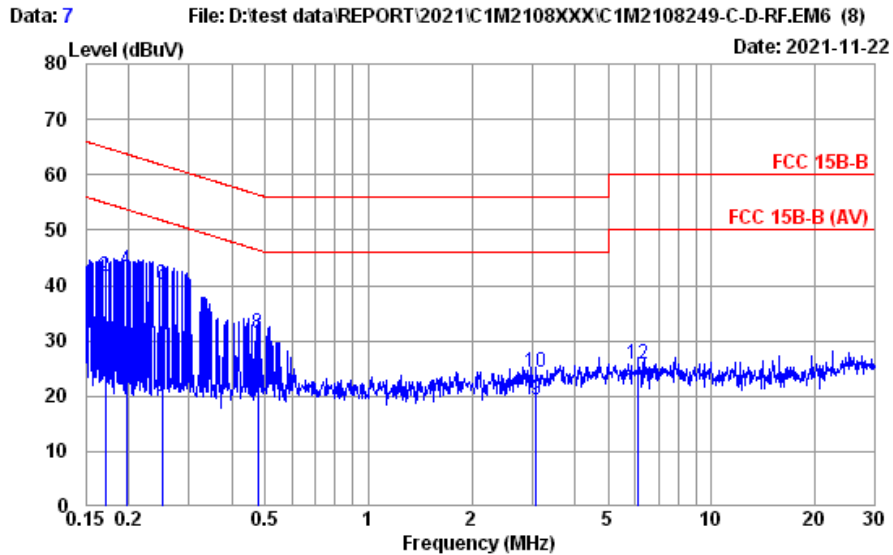


Site No. : No.8 Shielded Room Data No. : 8  
 Instrument 1 : Receiver ESR3(774)  
 Instrument 2 : EHV432 (567)(A)|CE-08|ESH3-Z2 (354)  
 Limit : FCC 15B-B Phase : NEUTRAL  
 Environment : 25°C / 52% Engineer : Roy  
 EUT Model : T10PX Test Rating : 120Vac/60Hz  
 Test Mode : Charge

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.166	10.40	0.03	9.85	-0.15	20.13	55.16	35.03	Average
2	0.166	10.40	0.03	9.85	19.44	39.72	65.16	25.44	QP
3	0.215	10.39	0.03	9.85	-0.85	19.42	53.01	33.59	Average
4	0.215	10.39	0.03	9.85	20.47	40.74	63.01	22.27	QP
5	0.280	10.38	0.03	9.85	-2.44	17.82	50.81	32.99	Average
6	0.280	10.38	0.03	9.85	17.90	38.16	60.81	22.65	QP
7	0.471	10.37	0.03	9.85	-3.12	17.13	46.49	29.36	Average
8	0.471	10.37	0.03	9.85	10.27	30.52	56.49	25.97	QP
9	2.765	10.43	0.07	9.86	-0.06	20.30	46.00	25.70	Average
10	2.765	10.43	0.07	9.86	5.68	26.04	56.00	29.96	QP
11	5.713	10.54	0.11	9.87	0.52	21.04	50.00	28.96	Average
12	5.713	10.54	0.11	9.87	6.24	26.76	60.00	33.24	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2021/11/22	Temp./Hum.	25°C/52%
Test Mode	Charge	Tested By	Roy Hung
Test Voltage	AC 120V/60Hz (EUT link to AC adapter)		

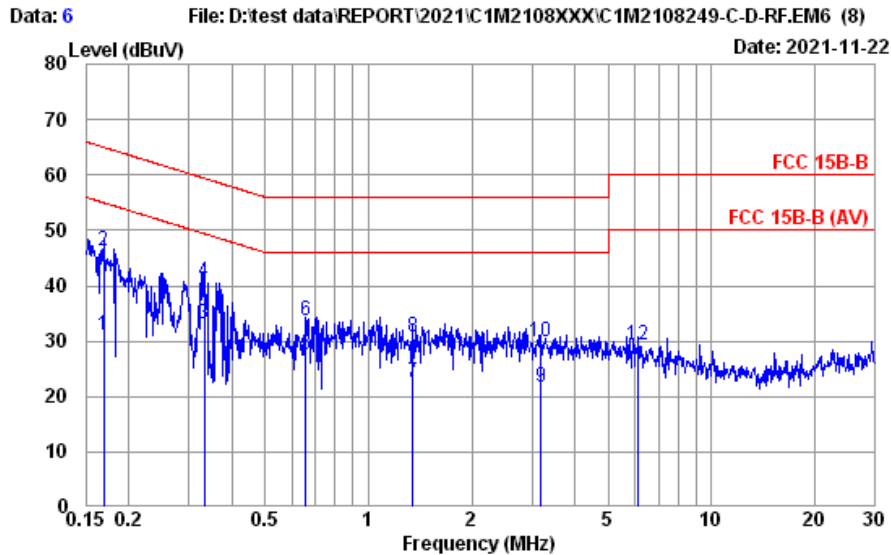


Site No. : No.8 Shielded Room Data No. : 7  
 Instrument 1 : Receiver ESR3(774)  
 Instrument 2 : EHV432 (567)(A)|CE-08|ESH3-Z2 (354)  
 Limit : FCC 15B-B Phase : LINE  
 Environment : 25°C / 52% Engineer : Roy  
 EUT Model : T10PX Test Rating : 120Vac/60Hz  
 Test Mode : Charge

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.171	10.40	0.03	9.85	3.94	24.22	54.90	30.68	Average
2	0.171	10.40	0.03	9.85	21.44	41.72	64.90	23.18	QP
3	0.197	10.39	0.03	9.85	2.27	22.54	53.76	31.22	Average
4	0.197	10.39	0.03	9.85	22.41	42.68	63.76	21.08	QP
5	0.251	10.38	0.03	9.85	-0.30	19.96	51.73	31.77	Average
6	0.251	10.38	0.03	9.85	19.79	40.05	61.73	21.68	QP
7	0.476	10.37	0.03	9.85	-0.30	19.95	46.41	26.46	Average
8	0.476	10.37	0.03	9.85	11.17	31.42	56.41	24.99	QP
9	3.074	10.41	0.08	9.86	-0.90	19.45	46.00	26.55	Average
10	3.074	10.41	0.08	9.86	3.95	24.30	56.00	31.70	QP
11	6.121	10.48	0.11	9.87	0.66	21.12	50.00	28.88	Average
12	6.121	10.48	0.11	9.87	5.23	25.69	60.00	34.31	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2021/11/22	Temp./Hum.	25°C/52%
Test Mode	Charge	Tested By	Roy Hung
Test Voltage	AC 120V/60Hz (EUT's battery link to AC adapter)		

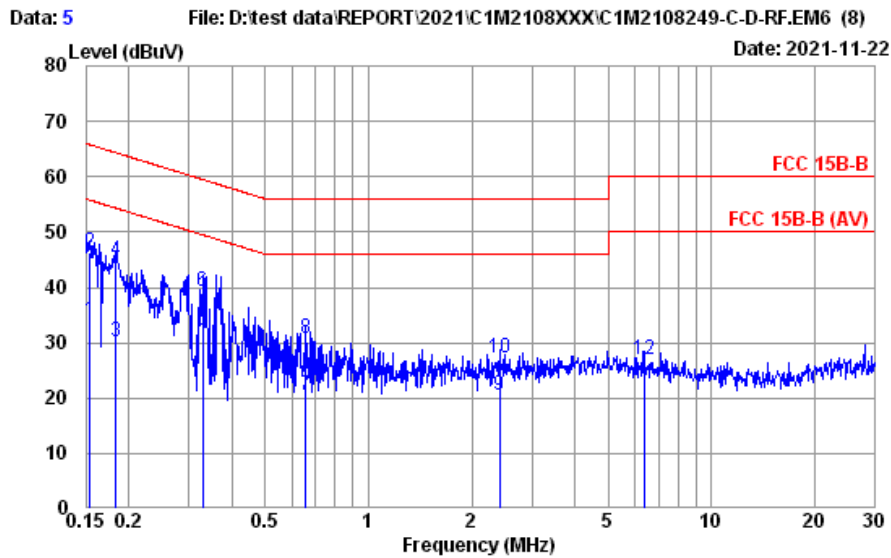


Site No. : No.8 Shielded Room Data No. : 6  
 Instrument 1 : Receiver ESR3(774)  
 Instrument 2 : EHV432 (567)(A)|CE-08|ESH3-Z2 (354)  
 Limit : FCC 15B-B Phase : NEUTRAL  
 Environment : 25°C / 52% Engineer : Roy  
 EUT Model : T10PX Test Rating : 120Vac/60Hz  
 Test Mode : Charge

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.169	10.40	0.03	9.85	10.67	30.95	54.99	24.04	Average
2	0.169	10.40	0.03	9.85	25.91	46.19	64.99	18.80	QP
3	0.332	10.38	0.03	9.85	12.89	33.15	49.40	16.25	Average
4	0.332	10.38	0.03	9.85	20.33	40.59	59.40	18.81	QP
5	0.658	10.38	0.04	9.85	7.13	27.40	46.00	18.60	Average
6	0.658	10.38	0.04	9.85	13.57	33.84	56.00	22.16	QP
7	1.345	10.39	0.05	9.85	2.21	22.50	46.00	23.50	Average
8	1.345	10.39	0.05	9.85	10.52	30.81	56.00	25.19	QP
9	3.190	10.44	0.08	9.86	1.25	21.63	46.00	24.37	Average
10	3.190	10.44	0.08	9.86	9.44	29.82	56.00	26.18	QP
11	6.121	10.56	0.11	9.87	3.58	24.12	50.00	25.88	Average
12	6.121	10.56	0.11	9.87	8.68	29.22	60.00	30.78	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2021/11/22	Temp./Hum.	25°C/52%
Test Mode	Charge	Tested By	Roy Hung
Test Voltage	AC 120V/60Hz (EUT's battery link to AC adapter)		



Site No.	: No.8 Shielded Room	Data No.	: 5
Instrument 1	: Receiver ESR3(774)		
Instrument 2	: EHV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC 15B-B	Phase	: LINE
Environment	: 25°C / 52%	Engineer	: Roy
EUT Model	: T10PX	Test Rating	: 120Vac/60Hz
Test Mode	: Charge		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.154	10.40	0.03	9.85	13.62	33.90	55.78	21.88	Average
2	0.154	10.40	0.03	9.85	26.15	46.43	65.78	19.35	QP
3	0.183	10.39	0.03	9.85	10.05	30.32	54.33	24.01	Average
4	0.183	10.39	0.03	9.85	24.49	44.76	64.33	19.57	QP
5	0.329	10.38	0.03	9.85	11.88	32.14	49.49	17.35	Average
6	0.329	10.38	0.03	9.85	19.07	39.33	59.49	20.16	QP
7	0.658	10.38	0.04	9.85	0.17	20.44	46.00	25.56	Average
8	0.658	10.38	0.04	9.85	10.64	30.91	56.00	25.09	QP
9	2.409	10.41	0.07	9.86	0.21	20.55	46.00	25.45	Average
10	2.409	10.41	0.07	9.86	6.89	27.23	56.00	28.77	QP
11	6.352	10.49	0.11	9.87	2.01	22.48	50.00	27.52	Average
12	6.352	10.49	0.11	9.87	6.46	26.93	60.00	33.07	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## A.2 RADIATED EMISSION

Test Date	2021/11/01	Temp./Hum.	26°C/57%
Test Voltage	(1) AC 120V/60Hz (EUT or EUT's battery link to AC adapter) (2) DC 7.4 (Via Battery)	Tested By	Martin Chen

### A.2.1 Emissions within Restricted Frequency Bands

#### A.2.1.1 Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

#### A.2.1.2 Frequency Below 1GHz

Mode	Charge (EUT link to AC adapter)
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#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
45.520	16.09	1.49	26.49	40.04	31.13	40.00	8.87	Peak
101.780	16.65	2.29	26.29	32.52	25.17	43.50	18.33	Peak
269.590	18.56	4.04	25.72	30.41	27.29	46.00	18.71	Peak
630.430	24.45	6.93	27.44	31.45	35.39	46.00	10.61	Peak
808.910	25.98	7.88	27.30	29.17	35.73	46.00	10.27	Peak
981.570	26.99	8.88	26.75	28.92	38.04	54.00	15.96	Peak

#### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
54.250	13.17	1.64	26.46	46.45	34.80	40.00	5.20	Peak
95.960	15.85	2.23	26.31	34.50	26.27	43.50	17.23	Peak
630.430	24.45	6.93	27.44	33.71	37.65	46.00	8.35	Peak
871.960	26.20	8.27	27.11	27.99	35.35	46.00	10.65	Peak
967.990	26.88	8.81	26.79	29.77	38.67	54.00	15.33	Peak

Mode	Charge (EUT's battery link to AC adapter)
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
44.550	16.56	1.47	26.49	37.19	28.73	40.00	11.27	Peak
101.780	16.65	2.29	26.29	32.99	25.64	43.50	17.86	Peak
269.590	18.56	4.04	25.72	29.23	26.11	46.00	19.89	Peak
540.220	23.61	6.57	27.28	29.49	32.39	46.00	13.61	Peak
749.740	25.39	7.55	27.39	28.22	33.77	46.00	12.23	Peak
998.060	27.10	8.95	26.69	27.74	37.10	54.00	16.90	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
54.250	13.17	1.64	26.46	45.27	33.62	40.00	6.38	Peak
96.930	15.97	2.23	26.31	34.07	25.96	43.50	17.54	Peak
484.930	22.89	6.32	27.09	29.81	31.93	46.00	14.07	Peak
540.220	23.61	6.57	27.28	29.58	32.48	46.00	13.52	Peak
878.750	26.23	8.31	27.09	29.11	36.56	46.00	9.44	Peak
995.150	27.10	8.95	26.69	27.75	37.11	54.00	16.89	Peak



Mode	S-FHSS	Frequency	TX 2403.25MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
36.790	20.71	1.32	26.50	31.23	26.76	40.00	13.24	Peak
101.780	16.65	2.29	26.29	32.31	24.96	43.50	18.54	Peak
491.720	23.00	6.37	27.11	28.12	30.38	46.00	15.62	Peak
647.890	24.54	7.02	27.44	29.51	33.63	46.00	12.37	Peak
847.710	26.12	8.12	27.18	28.95	36.01	46.00	9.99	Peak
972.840	26.91	8.83	26.79	28.58	37.53	54.00	16.47	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
53.280	13.34	1.62	26.46	43.62	32.12	40.00	7.88	Peak
94.990	15.67	2.21	26.31	33.48	25.05	43.50	18.45	Peak
540.220	23.61	6.57	27.28	28.98	31.88	46.00	14.12	Peak
656.620	24.58	7.07	27.45	29.17	33.37	46.00	12.63	Peak
915.610	26.44	8.53	26.98	28.93	36.92	46.00	9.08	Peak
988.360	27.05	8.92	26.72	28.24	37.49	54.00	16.51	Peak

Mode	T-FHSS	Frequency	TX 2407.50MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
45.520	16.09	1.49	26.49	37.72	28.81	40.00	11.19	Peak
101.780	16.65	2.29	26.29	32.40	25.05	43.50	18.45	Peak
216.240	16.17	3.53	25.78	29.40	23.32	46.00	22.68	Peak
540.220	23.61	6.57	27.28	30.75	33.65	46.00	12.35	Peak
919.490	26.47	8.55	26.98	28.66	36.70	46.00	9.30	Peak
977.690	26.96	8.86	26.75	28.96	38.03	54.00	15.97	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
54.250	13.17	1.64	26.46	45.66	34.01	40.00	5.99	Peak
93.050	15.31	2.19	26.32	36.03	27.21	43.50	16.29	Peak
540.220	23.61	6.57	27.28	29.91	32.81	46.00	13.19	Peak
636.250	24.49	6.96	27.44	30.14	34.15	46.00	11.85	Peak
850.620	26.13	8.14	27.18	29.29	36.38	46.00	9.62	Peak
982.540	26.99	8.88	26.75	28.52	37.64	54.00	16.36	Peak

Mode	F-4G	Frequency	TX 2478.00MHz
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**Antenna at Horizontal Polarization**

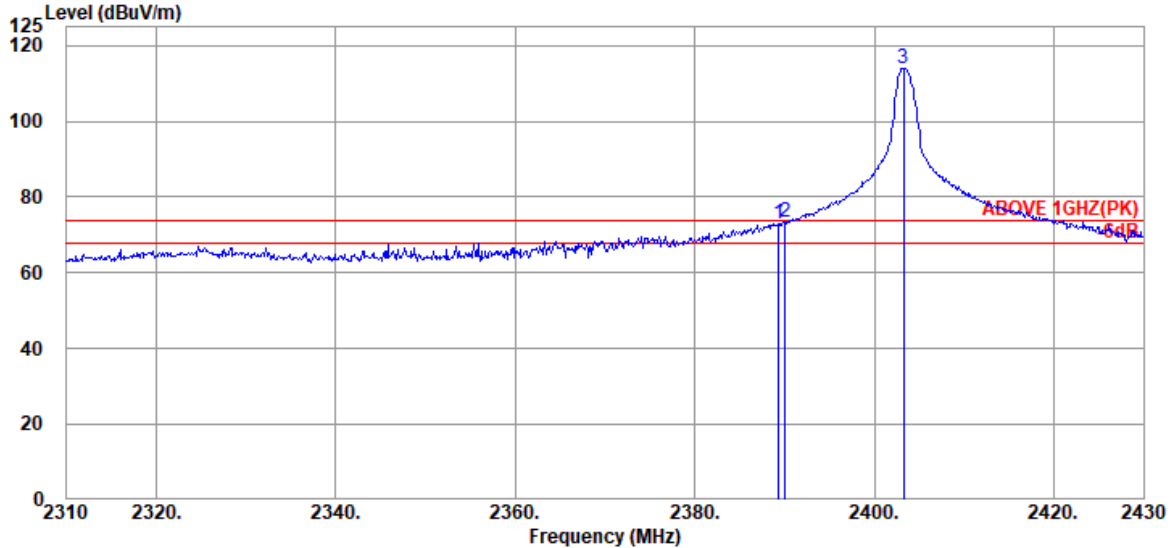
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
44.550	16.56	1.47	26.49	38.92	30.46	40.00	9.54	Peak
101.780	16.65	2.29	26.29	32.86	25.51	43.50	17.99	Peak
524.700	23.43	6.52	27.24	29.52	32.23	46.00	13.77	Peak
712.880	24.93	7.34	27.44	28.95	33.78	46.00	12.22	Peak
926.280	26.52	8.58	26.94	28.48	36.64	46.00	9.36	Peak
987.390	27.02	8.90	26.72	28.04	37.24	54.00	16.76	Peak

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
54.250	13.17	1.64	26.46	45.60	33.95	40.00	6.05	Peak
93.050	15.31	2.19	26.32	36.68	27.86	43.50	15.64	Peak
540.220	23.61	6.57	27.28	29.57	32.47	46.00	13.53	Peak
589.690	24.19	6.74	27.42	29.25	32.76	46.00	13.24	Peak
926.280	26.52	8.58	26.94	28.78	36.94	46.00	9.06	Peak
996.120	27.10	8.95	26.69	27.73	37.09	54.00	16.91	Peak

A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

Mode	S-FHSS	Frequency	TX 2403.25MHz
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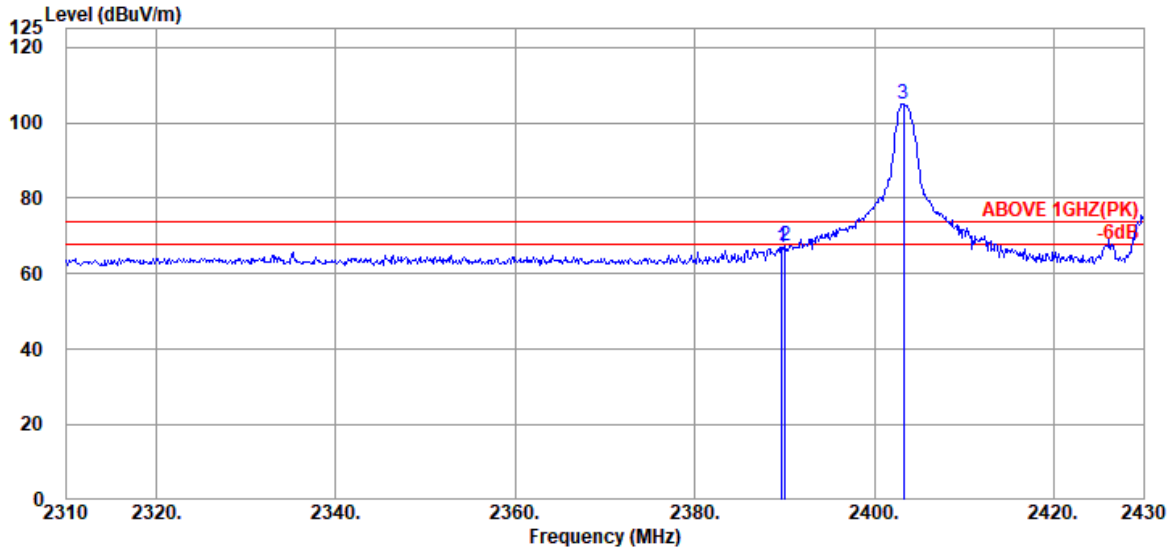
Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.320	31.89	6.04	34.53	69.57	72.97	74.00	1.03	Peak
2390.040	31.89	6.04	34.54	70.13	73.52	74.00	0.48	Peak
@ 2403.240	31.80	6.07	34.54	110.77	114.10	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.320	72.97	-30.33	42.64	54.00	11.36	Average
2390.040	73.52	-30.33	43.19	54.00	10.81	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	S-FHSS	Frequency	TX 2403.25MHz
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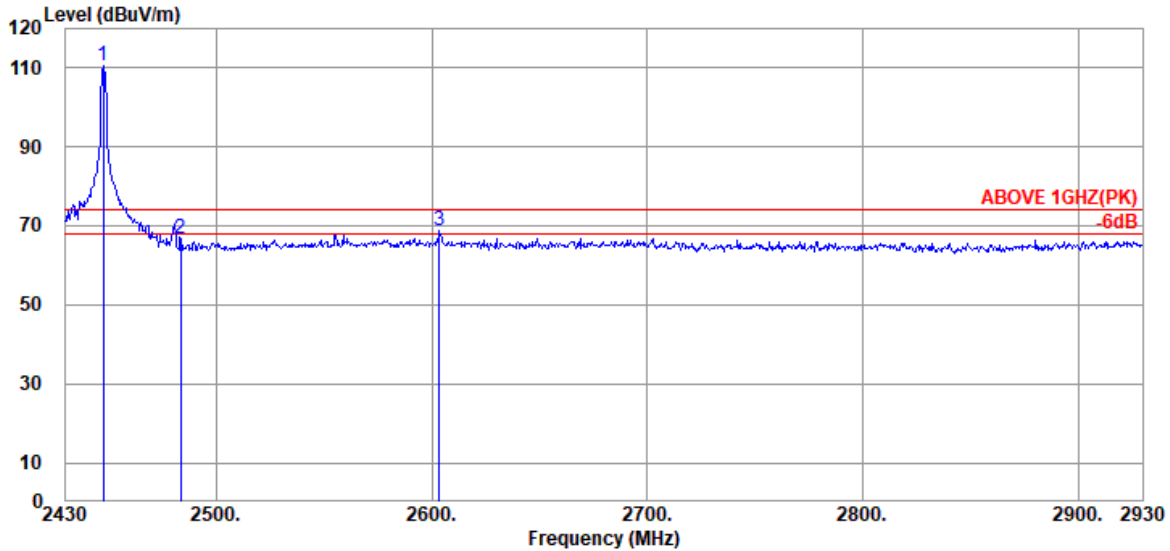
**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.680	31.89	6.04	34.53	63.45	66.85	74.00	7.15	Average
2390.040	31.89	6.04	34.54	64.02	67.41	74.00	6.59	Average
@ 2403.240	31.80	6.07	34.54	101.71	105.04	---	---	Average

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.680	66.85	-30.33	36.52	54.00	17.48	Average
2390.040	67.41	-30.33	37.08	54.00	16.92	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	S-FHSS	Frequency	TX 2447.50MHz
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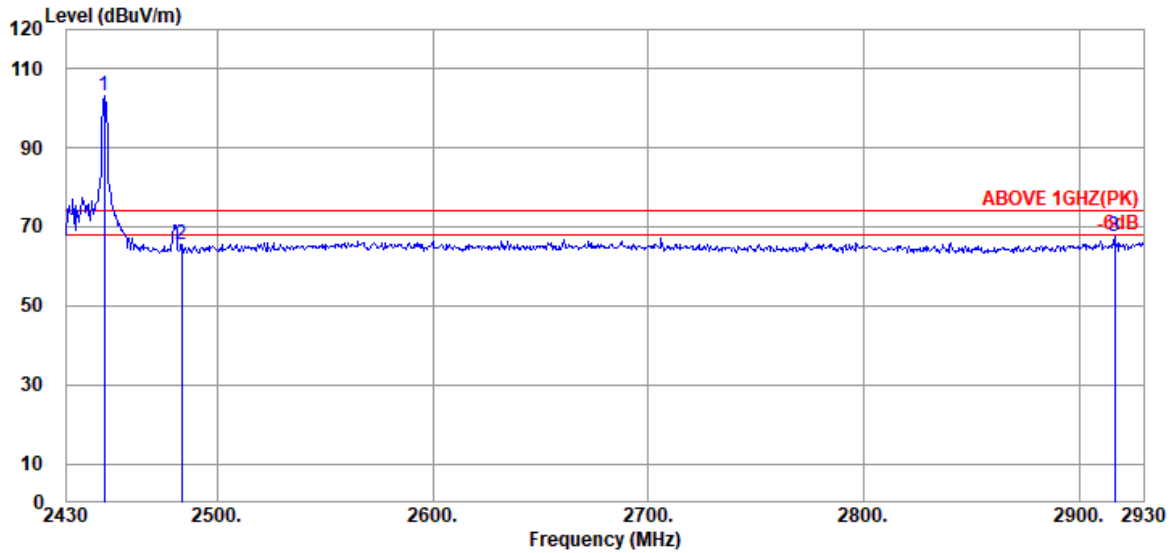
**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2447.500	32.30	6.13	34.55	106.73	110.61	---	---	Peak
2483.500	32.30	6.18	34.55	62.78	66.71	74.00	7.29	Peak
2603.500	32.50	6.34	34.58	64.61	68.87	74.00	5.13	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	66.71	-30.33	36.38	54.00	17.62	Average
2603.500	68.87	-30.33	38.54	54.00	15.46	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	S-FHSS	Frequency	TX 2447.50MHz
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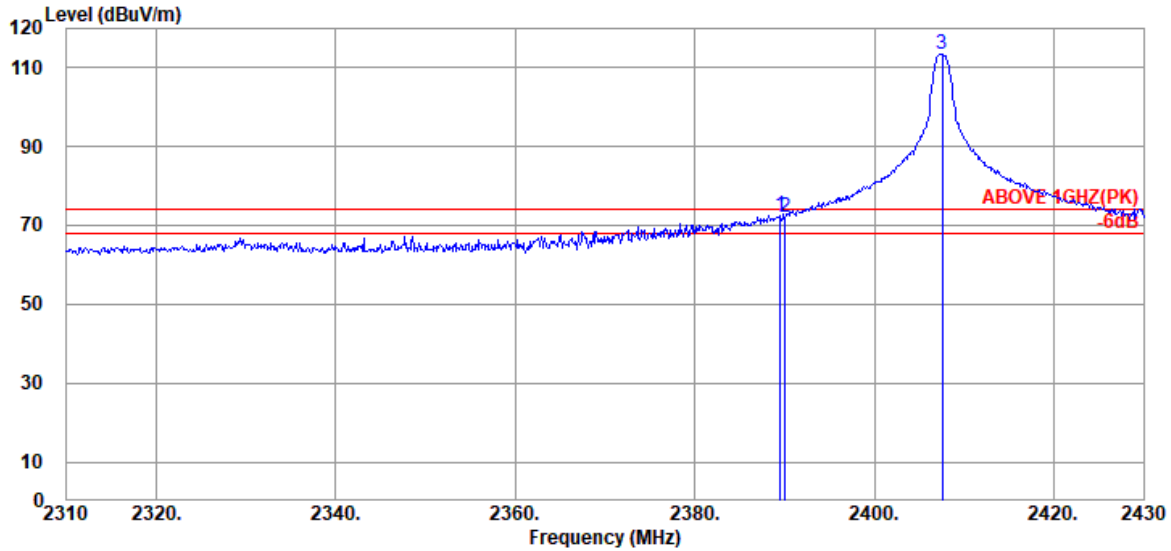
**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2447.500	32.30	6.13	34.55	99.32	103.20	---	---	Peak
2483.500	32.30	6.18	34.55	61.54	65.47	74.00	8.53	Peak
2916.500	32.83	6.75	34.64	62.71	67.65	74.00	6.35	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	65.47	-30.33	35.14	54.00	18.86	Average
2916.500	67.65	-30.33	37.32	54.00	16.68	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	T-FHSS	Frequency	TX 2407.50MHz
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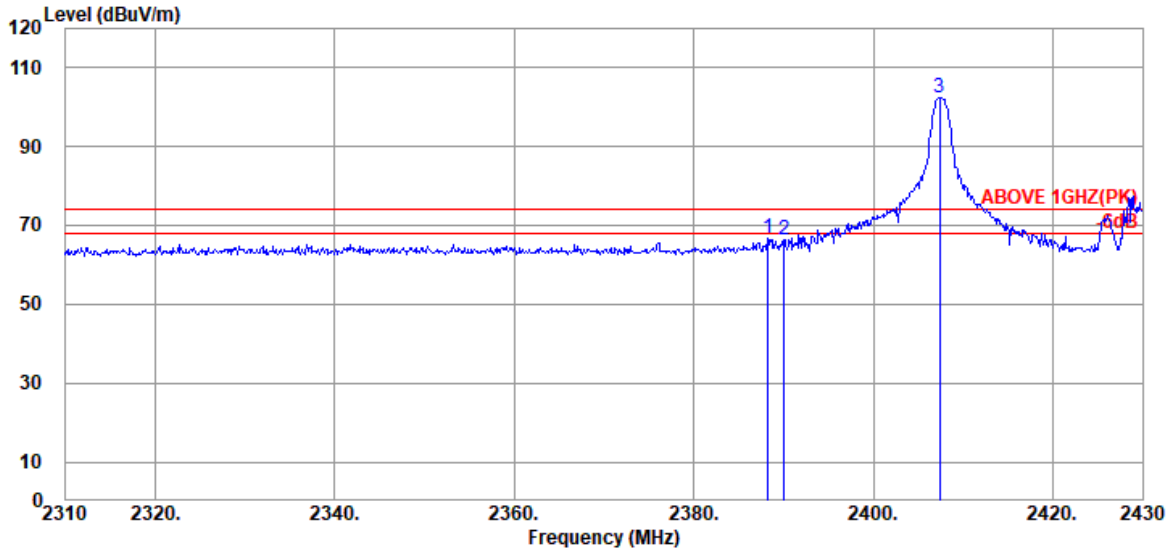
**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.560	31.89	6.04	34.53	68.97	72.37	74.00	1.63	Peak
2390.040	31.89	6.04	34.54	68.67	72.06	74.00	1.94	Peak
@ 2407.560	31.87	6.07	34.54	110.00	113.40	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2389.560	72.37	-38.95	33.42	54.00	20.58	Average
2390.040	72.06	-38.95	33.11	54.00	20.89	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	T-FHSS	Frequency	TX 2407.50MHz
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**Antenna at Vertical Polarization**

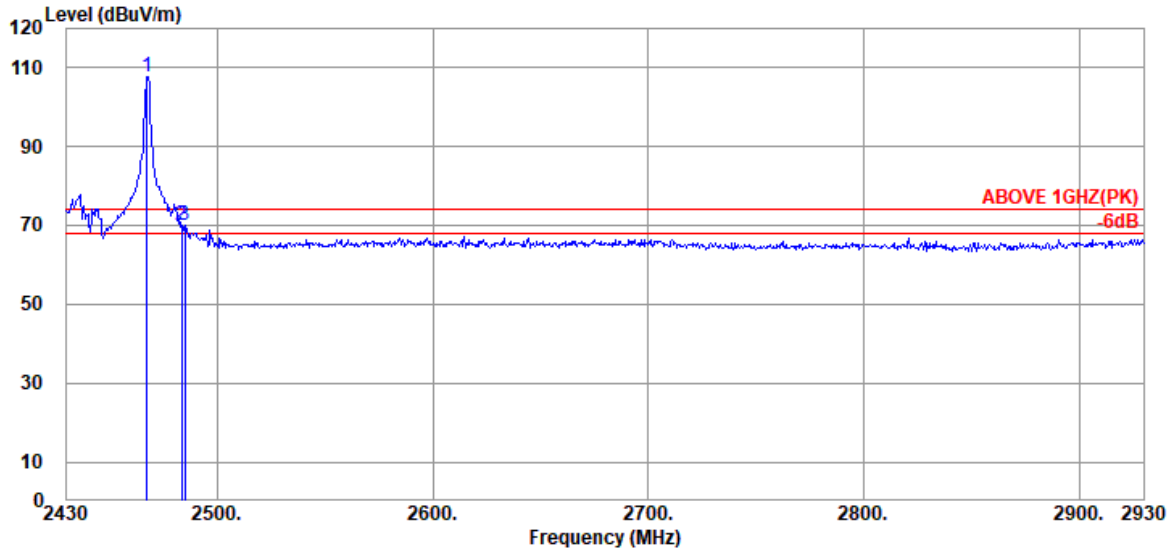
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.240	31.89	6.04	34.53	63.21	66.61	74.00	7.39	Average
2390.040	31.89	6.04	34.54	63.00	66.39	74.00	7.61	Average
@ 2407.440	31.87	6.07	34.54	98.96	102.36	---	---	Average

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2388.240	66.61	-38.95	27.66	54.00	26.34	Average
2390.040	66.39	-38.95	27.44	54.00	26.56	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.



Mode	T-FHSS	Frequency	TX 2467.50MHz
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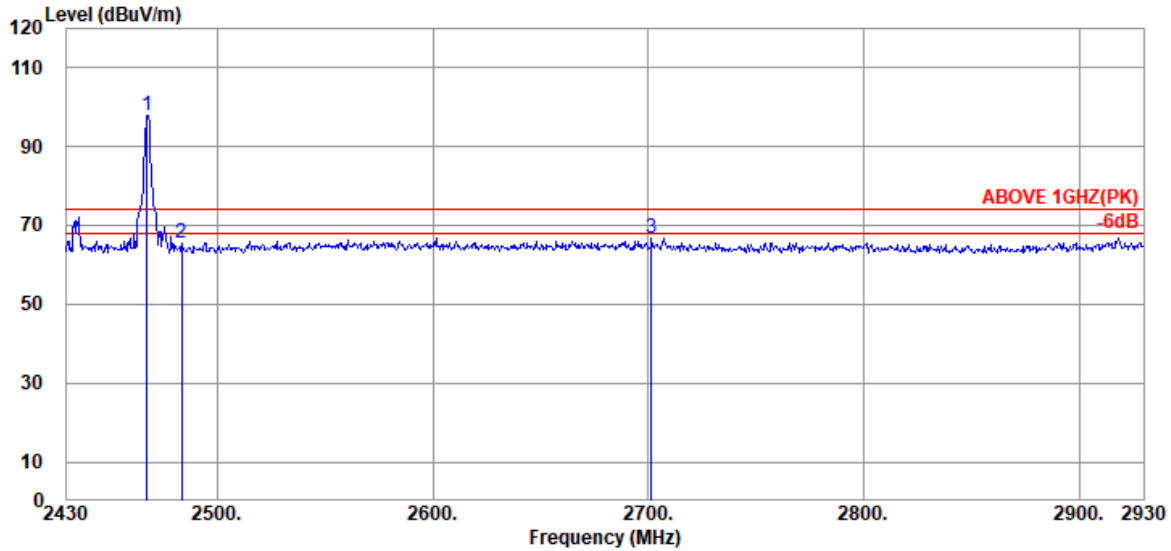
**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.500	32.30	6.15	34.55	103.67	107.57	---	---	Peak
2483.500	32.30	6.18	34.55	66.25	70.18	74.00	3.82	Peak
2485.000	32.30	6.18	34.55	66.23	70.16	74.00	3.84	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	70.18	-38.95	31.23	54.00	22.77	Average
2485.000	70.16	-38.95	31.21	54.00	22.79	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	T-FHSS	Frequency	TX 2467.50MHz
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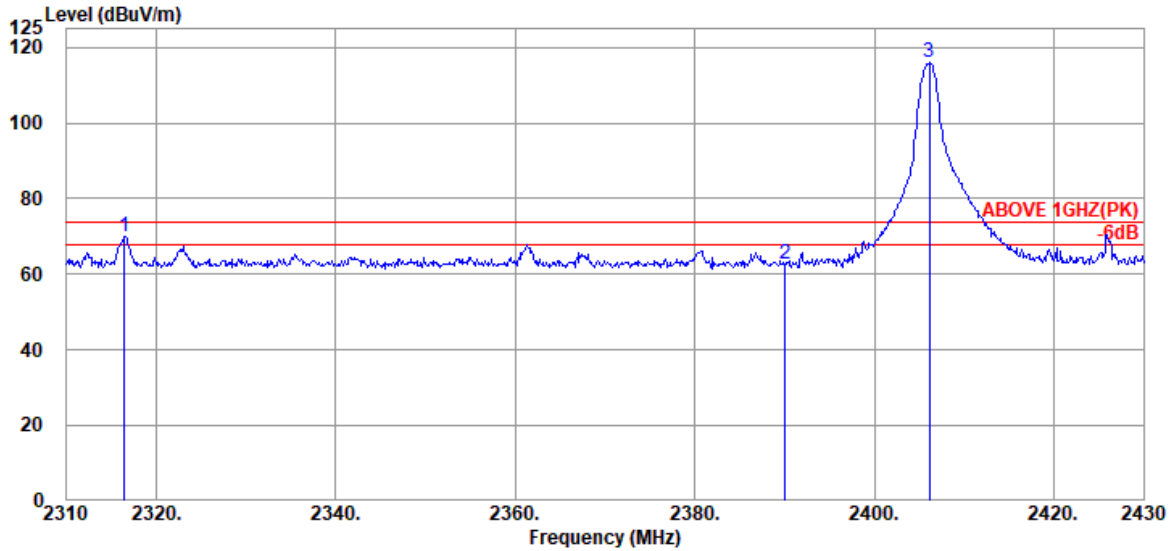
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2467.500	32.30	6.15	34.55	93.83	97.73	---	---	Peak
2483.500	32.30	6.18	34.55	61.41	65.34	74.00	8.66	Peak
2701.500	32.20	6.47	34.60	62.75	66.82	74.00	7.18	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	65.34	-38.95	26.39	54.00	27.61	Average
2701.500	66.82	-38.95	27.87	54.00	26.13	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	F-4G	Frequency	TX 2406.00MHz
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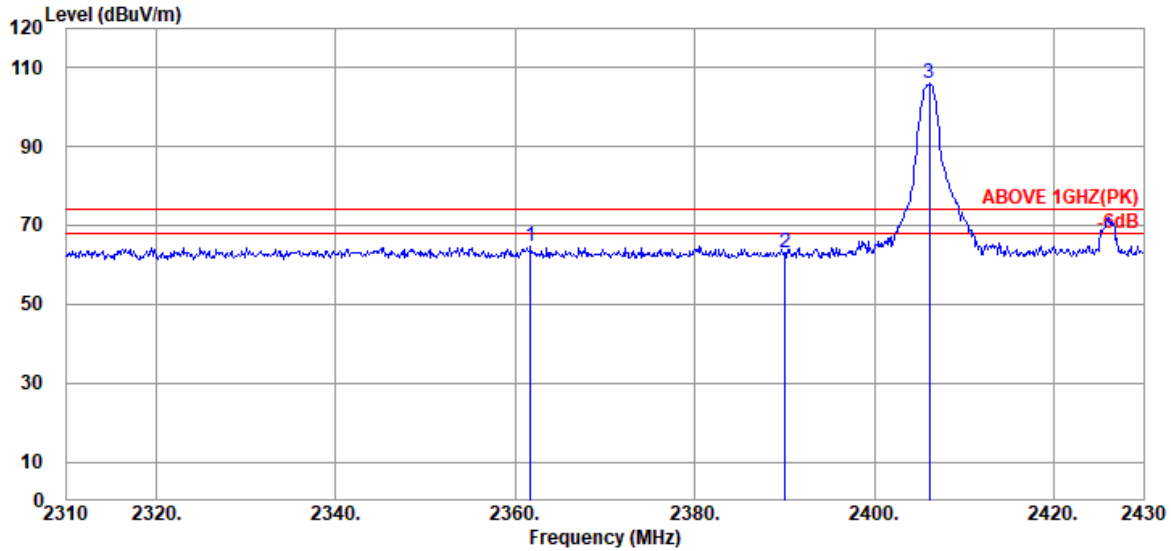
**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2316.480	31.97	5.90	34.52	66.71	70.06	74.00	3.94	Peak
2390.040	31.89	6.04	34.54	59.38	62.77	74.00	11.23	Peak
@ 2406.120	31.87	6.07	34.54	112.52	115.92	---	---	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2316.480	70.06	-42.27	27.79	54.00	26.21	Average
2390.040	62.77	-42.27	20.50	54.00	33.50	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	F-4G	Frequency	TX 2406.00MHz
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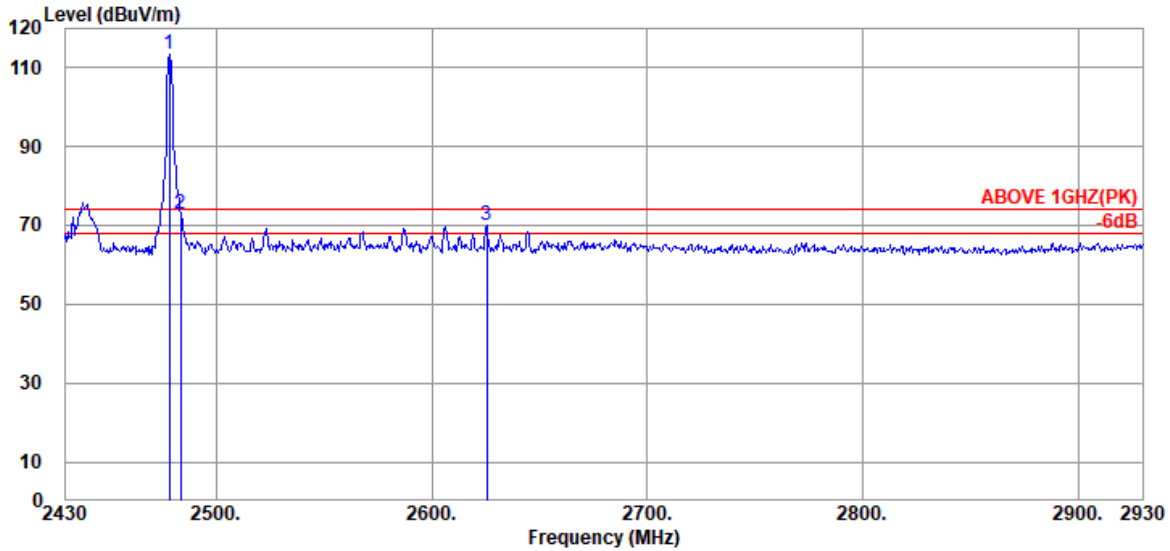
**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2361.720	32.06	5.98	34.53	61.39	64.90	74.00	9.10	Average
2390.040	31.89	6.04	34.54	59.54	62.93	74.00	11.07	Average
@ 2406.120	31.87	6.07	34.54	102.57	105.97	---	---	Average

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2361.720	64.90	-42.27	22.63	54.00	31.37	Average
2390.040	62.93	-42.27	20.66	54.00	33.34	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	F-4G	Frequency	TX 2478.00MHz
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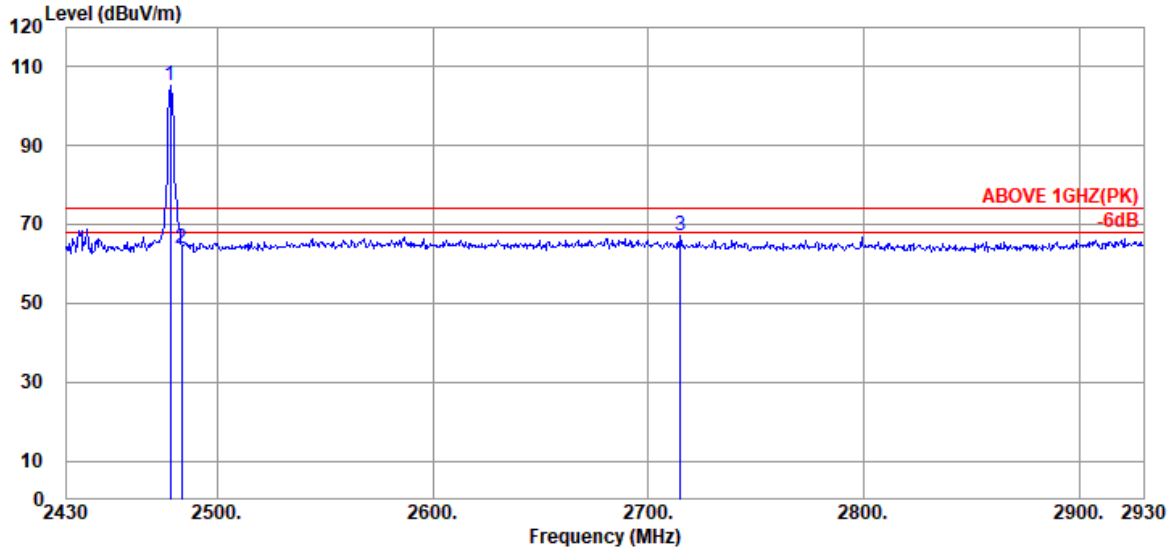
**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.000	32.30	6.18	34.55	109.65	113.58	---	---	Peak
2483.500	32.30	6.18	34.55	69.04	72.97	74.00	1.03	Peak
2625.500	32.35	6.38	34.59	65.82	69.96	74.00	4.04	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	72.97	-42.27	30.70	54.00	23.30	Average
2625.500	69.96	-42.27	27.69	54.00	26.31	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	F-4G	Frequency	TX 2478.00MHz
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**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2478.000	32.30	6.18	34.55	101.32	105.25	---	---	Peak
2483.500	32.30	6.18	34.55	60.08	64.01	74.00	9.99	Peak
2715.000	32.20	6.49	34.60	62.95	67.04	74.00	6.96	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
2483.500	64.01	-42.27	21.74	54.00	32.26	Average
2715.000	67.04	-42.27	24.77	54.00	29.23	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	S-FHSS	Frequency	TX 2403.25MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4806.000	33.60	8.68	34.44	47.97	55.81	74.00	18.19	Peak
7211.000	35.50	10.57	34.65	43.69	55.11	74.00	18.89	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4806.000	55.81	-30.33	25.48	54.00	28.52	Average
7211.000	55.11	-30.33	24.78	54.00	29.22	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4806.000	33.60	8.68	34.44	51.43	59.27	74.00	14.73	Peak
7211.000	35.50	10.57	34.65	45.75	57.17	74.00	16.83	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4806.000	59.27	-30.33	28.94	54.00	25.06	Average
7211.000	57.17	-30.33	26.84	54.00	27.16	Average

Mode	S-FHSS	Frequency	TX 2425.00MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4850.000	33.80	8.70	34.43	46.63	54.70	74.00	19.30	Peak
7274.000	35.47	10.62	34.67	40.97	52.39	74.00	21.61	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4850.000	54.70	-30.33	24.37	54.00	29.63	Average
7274.000	52.39	-30.33	22.06	54.00	31.94	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4850.000	33.80	8.70	34.43	50.53	58.60	74.00	15.40	Peak
7274.000	35.47	10.62	34.67	44.45	55.87	74.00	18.13	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4850.000	58.60	-30.33	28.27	54.00	25.73	Average
7274.000	55.87	-30.33	25.54	54.00	28.46	Average



Mode	S-FHSS	Frequency	TX 2447.50MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4896.000	33.90	8.73	34.42	45.19	53.40	74.00	20.60	Peak
7343.000	35.70	10.67	34.72	40.82	52.47	74.00	21.53	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4896.000	53.40	-30.33	23.07	54.00	30.93	Average
7343.000	52.47	-30.33	22.14	54.00	31.86	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4896.000	33.90	8.73	34.42	49.78	57.99	74.00	16.01	Peak
7343.000	35.70	10.67	34.72	44.50	56.15	74.00	17.85	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4896.000	57.99	-30.33	27.66	54.00	26.34	Average
7343.000	56.15	-30.33	25.82	54.00	28.18	Average

Mode	T-FHSS	Frequency	TX 2407.50MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4816.000	33.67	8.68	34.44	46.59	54.50	74.00	19.50	Peak
7223.000	35.50	10.58	34.65	40.60	52.03	74.00	21.97	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4816.000	54.50	-38.95	15.55	54.00	38.45	Average
7223.000	52.03	-38.95	13.08	54.00	40.92	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4816.000	33.67	8.68	34.44	50.20	58.11	74.00	15.89	Peak
7223.000	35.50	10.58	34.65	44.77	56.20	74.00	17.80	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4816.000	58.11	-38.95	19.16	54.00	34.84	Average
7223.000	56.20	-38.95	17.25	54.00	36.75	Average

Mode	T-FHSS	Frequency	TX 2435.50MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4872.000	33.85	8.72	34.43	47.63	55.77	74.00	18.23	Peak
7307.000	35.50	10.64	34.69	41.48	52.93	74.00	21.07	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4872.000	55.77	-38.95	16.82	54.00	37.18	Average
7307.000	52.93	-38.95	13.98	54.00	40.02	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4872.000	33.85	8.72	34.43	50.30	58.44	74.00	15.56	Peak
7307.000	35.50	10.64	34.69	42.22	53.67	74.00	20.33	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4872.000	58.44	-38.95	19.49	54.00	34.51	Average
7307.000	53.67	-38.95	14.72	54.00	39.28	Average

Mode	T-FHSS	Frequency	TX 2467.50MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4936.000	33.83	8.76	34.42	43.38	51.55	74.00	22.45	Peak
7403.000	35.80	10.72	34.75	38.82	50.59	74.00	23.41	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4936.000	51.55	-38.95	12.60	54.00	41.40	Average
7403.000	50.59	-38.95	11.64	54.00	42.36	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4936.000	33.83	8.76	34.42	48.06	56.23	74.00	17.77	Peak
7403.000	35.80	10.72	34.75	41.44	53.21	74.00	20.79	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4936.000	56.23	-38.95	17.28	54.00	36.72	Average
7403.000	53.21	-38.95	14.26	54.00	39.74	Average

Mode	F-4G	Frequency	TX 2406.00MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4812.000	33.67	8.68	34.44	48.55	56.46	74.00	17.54	Peak
7217.000	35.50	10.58	34.65	40.71	52.14	74.00	21.86	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4812.000	56.46	-42.25	14.21	54.00	39.79	Average
7217.000	52.14	-42.25	9.89	54.00	44.11	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4812.000	33.67	8.68	34.44	50.10	58.01	74.00	15.99	Peak
7217.000	35.50	10.58	34.65	45.21	56.64	74.00	17.36	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
4812.000	58.01	-42.25	15.76	54.00	38.24	Average
7217.000	56.64	-42.25	14.39	54.00	39.61	Average

Mode	F-4G	Frequency	TX 2442.00MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4884.000	33.88	8.72	34.43	45.98	54.15	74.00	19.85	Peak
7325.000	35.60	10.66	34.71	40.35	51.90	74.00	22.10	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4884.000	54.15	-42.27	11.88	54.00	42.12	Average
7325.000	51.90	-42.27	9.63	54.00	44.37	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4884.000	33.88	8.72	34.43	48.79	56.96	74.00	17.04	Peak
7325.000	35.60	10.66	34.71	45.27	56.82	74.00	17.18	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4884.000	56.96	-42.27	14.69	54.00	39.31	Average
7325.000	56.82	-42.27	14.55	54.00	39.45	Average

Mode	F-4G	Frequency	TX 2478.00MHz
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**Antenna at Horizontal Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4956.000	33.83	8.77	34.41	45.11	53.30	74.00	20.70	Peak
7433.000	35.80	10.73	34.76	40.46	52.23	74.00	21.77	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4956.000	53.30	-42.27	11.03	54.00	42.97	Average
7433.000	52.23	-42.27	9.96	54.00	44.04	Average

**Antenna at Vertical Polarization**

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
4956.000	33.83	8.77	34.41	49.25	57.44	74.00	16.56	Peak
7433.000	35.80	10.73	34.76	46.20	57.97	74.00	16.03	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
4956.000	57.44	-42.27	15.17	54.00	38.83	Average
7433.000	57.97	-42.27	15.70	54.00	38.30	Average

**A.2.3 Emissions in Non-restricted Frequency Bands:**

All emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.