

## TEST REPORT

**Product** : RC Tirex - Remote controlled smoke spitting dinosaur  
**Trade mark** : LEXIBOOK  
**Model/Type reference** : DINO02 (remote)  
**Serial Number** : N/A  
**Report Number** : EED32P80824601  
**FCC ID** : UU8-DINO02  
**Date of Issue** : Aug. 22, 2023  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

**Lexibook America**

**C/O Pramex International 1251 Avenue of the Americas, 3rd Fl., New York, 10020, United States**

Prepared by:

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Date:

Aug. 22, 2023



Check No.: 9836050623

## 1 Version

Version No.	Date	Description
00	Aug. 22, 2023	Original

**2 Test Summary**

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A
<b>Field Strength of the Fundamental Signal</b>	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
<b>Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
<b>20dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

Remark:

N/A: The product is power by battery.

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

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## 4 General Information

### 4.1 Client Information

Applicant:	Lexibook America
Address of Applicant:	C/O Pramex International 1251 Avenue of the Americas,3rd Fl., New York,10020,United States
Manufacturer:	Lexibook America
Address of Manufacturer:	C/O Pramex International 1251 Avenue of the Americas,3rd Fl., New York,10020,United States

### 4.2 General Description of EUT

Product Name:	RC Tirex - Remote controlled smoke spitting dinosaur
Model No.:	DINO02 (remote)
Trade mark:	LEXIBOOK
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Test Power Grade:	Default
Test Software of EUT:	RF Test
Operation Frequency:	2405MHz ~2475MHz
Number of Channel:	33
Modulation:	GFSK
Antenna Type:	Internal Antenna
Antenna Gain:	0.59dBi
Power Supply:	DC 3.0V (2*1.5V*AAA)
Test Voltage:	DC 3.0V
Sample Received Date:	Jun. 07, 2023
Sample tested Date:	Jun. 07, 2023 to Aug. 22, 2023

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	11	2425	21	2452	31	2473
2	2406	12	2427	22	2453	32	2474
3	2407	13	2428	23	2454	33	2475
4	2408	14	2430	24	2456		
5	2409	15	2435	25	2459		
6	2410	16	2437	26	2462		
7	2411	17	2439	27	2469		
8	2414	18	2442	28	2470		
9	2418	19	2445	29	2471		
10	2422	20	2446	30	2472		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK	2405MHz ~2475MHz	Channel 1	Channel 17	Channel 33
		2405MHz	2439MHz	2475MHz

### 4.3 Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	22~25.0 ℃
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
<b>Test mode:</b>	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

### 4.4 Description of Support Units

The EUT has been tested independently.

### 4.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

### 4.6 Deviation from Standards

None.

### 4.7 Abnormalities from Standard Conditions

None.

### 4.8 Other Information Requested by the Customer

None.

**4.9 Measurement Uncertainty (95% confidence levels, k=2)**

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



## 5 Equipment List

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/28/2022	09/27/2023
Spectrum Analyzer	R&S	FSV40	101200	07/29/2022 07/25/2023	07/28/2023 07/24/2024
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/15/2021	04/14/2024
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/23/2022	12/23/2023
Horn Antenna	A.H.SYSTEMS	SAS-574	374	05/29/2021	05/28/2024
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Preamplifier	Agilent	11909A	12-1	03/28/2023	03/27/2024
Preamplifier	CD	PAP-1840-60	6041.6042	07/05/2020 07/03/2023	07/04/2023 07/02/2024
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	02-27-2023	02-26-2024
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-21-2023	02-20-2024
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-21-2023	02-20-2024
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	04-13-2023	04-12-2024
Preamplifier	EMCI	EMC001330	980563	03-28-2023	03-27-2024
Preamplifier	JS Tonscend	TAP-011858	AP21B806112	07-29-2022	07-28-2023
Communication test set	R&S	CMW500	102898	12-23-2022	12-22-2023
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2023	04-10-2024
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

## 6 Test results and Measurement Data

### 6.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C 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.	
<b>EUT Antenna:</b>	Please see Internal photos
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.59dBi.	

## 6.2 Radiated Spurious Emissions

**Test Requirement:** 47 CFR Part 15C Section 15.249 and 15.209 and 15.205

**Test Method:** ANSI C63.10

**Test Site:** Measurement Distance: 3m (Semi-Anechoic Chamber)

**Receiver Setup:**

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10kHz	Average

**Limit:**  
(Spurious Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dB $\mu$ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

**Limit:**  
(Field strength of the fundamental signal)

Frequency	Limit (dB $\mu$ V/m @3m)	Remark
2400MHz-2483.5MHz	94.0	Average Value
	114.0	Peak Value

**Test Setup:**

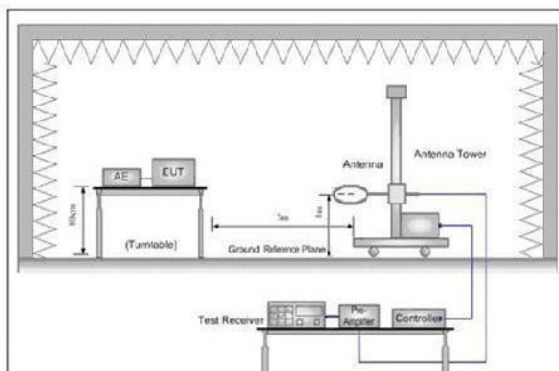


Figure 1. Below 30MHz

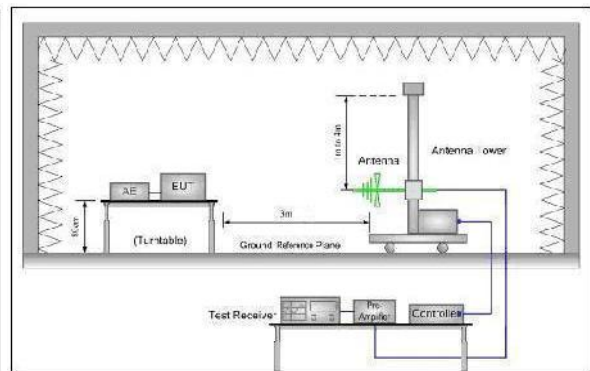


Figure 2. 30MHz to 1GHz

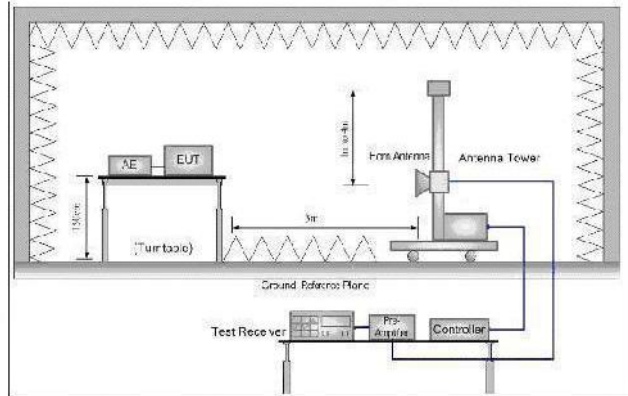


Figure 3. Above 1GHz

**Test Procedure:**

**Below 1GHz test procedure as below:**

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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.

**Above 1GHz test procedure as below:**

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).

Test the EUT in the lowest channel ,middle channel, the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Transmitting mode

**Test Mode:**

**Test Results:**

Pass

**Measurement Data**

**Field Strength Of The Fundamental Signal:**

Test mode:		Transmitting (lowest channel)						
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
2405.359	5.84	78.91	84.75	114.00	-29.25	Pass	H	PK
2405.359	5.84	78.83	84.67	94.00	-9.33	Pass	H	AV
2405.3234	5.84	72.33	78.17	114.00	-35.83	Pass	V	PK
2405.3768	5.84	72.19	78.03	94.00	-15.97	Pass	V	AV

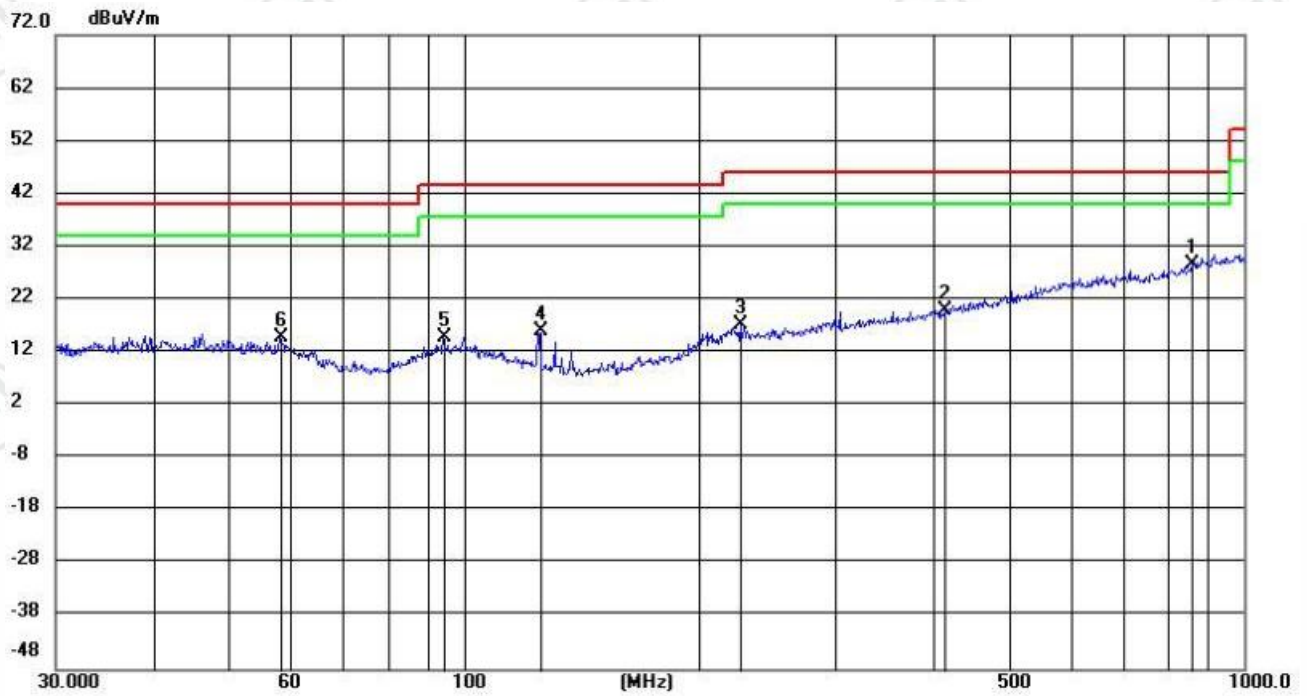
Test mode:		Transmitting (middle channel)						
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
2400.0210	4.80	76.04	80.84	114.00	-33.16	Pass	H	PK
2400.1780	4.80	75.13	79.93	94.00	-14.07	Pass	H	AV
2400.1390	4.80	73.06	77.86	114.00	-36.14	Pass	V	PK
2400.0245	4.80	72.24	77.04	94.00	-16.96	Pass	V	AV

Test mode:		Transmitting (highest channel)						
Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
2475.3713	6.50	81.68	88.18	114.00	-25.82	Pass	H	PK
2475.3813	6.50	81.68	88.18	94.00	-5.82	Pass	H	AV
2475.3513	6.50	74.06	80.56	114.00	-33.44	Pass	V	PK
2475.3513	6.50	73.97	80.47	94.00	-13.53	Pass	V	AV

**Spurious Emissions:**

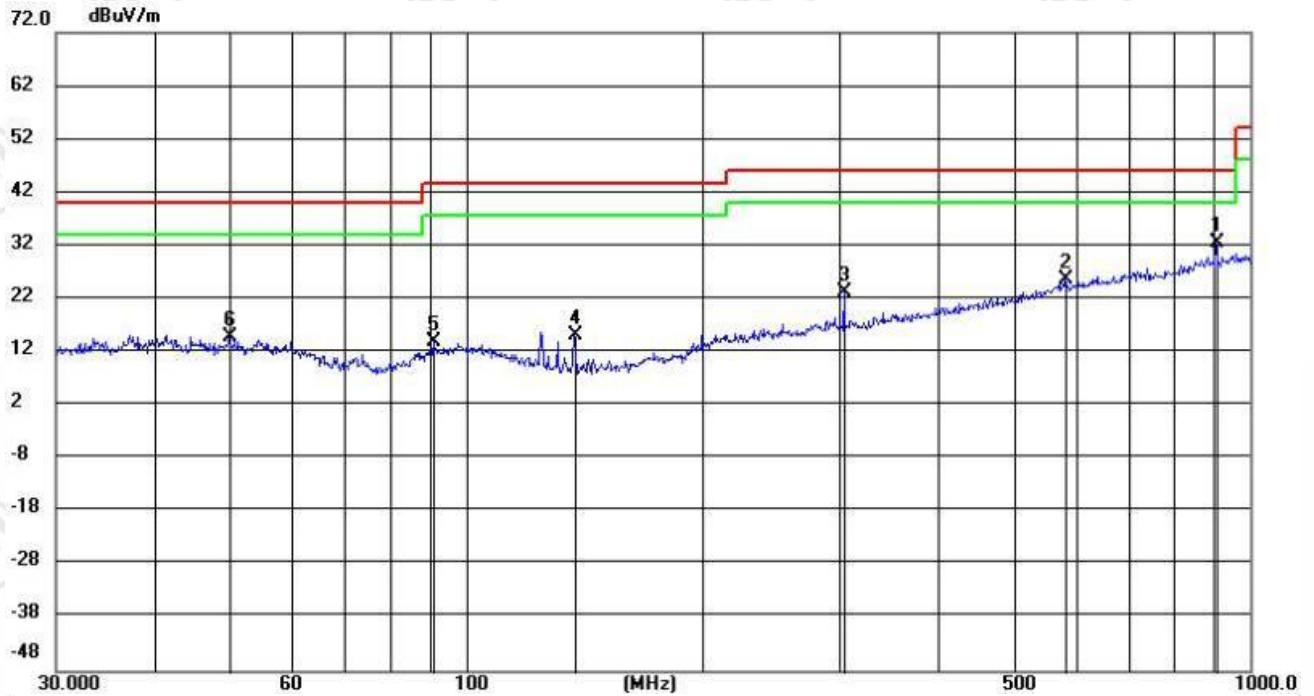
**30MHz-1GHz:**

Test mode:	Transmitting (lowest channel)	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	859.2816	1.04	27.59	28.63	46.00	-17.37	peak	100	352	
2		413.3430	0.33	19.67	20.00	46.00	-26.00	peak	200	213	
3		226.8538	2.42	14.71	17.13	46.00	-28.87	peak	200	120	
4		125.0066	5.54	10.43	15.97	43.50	-27.53	peak	200	110	
5		94.1969	1.67	13.25	14.92	43.50	-28.58	peak	200	7	
6		58.2132	1.24	13.69	14.93	40.00	-25.07	peak	200	7	

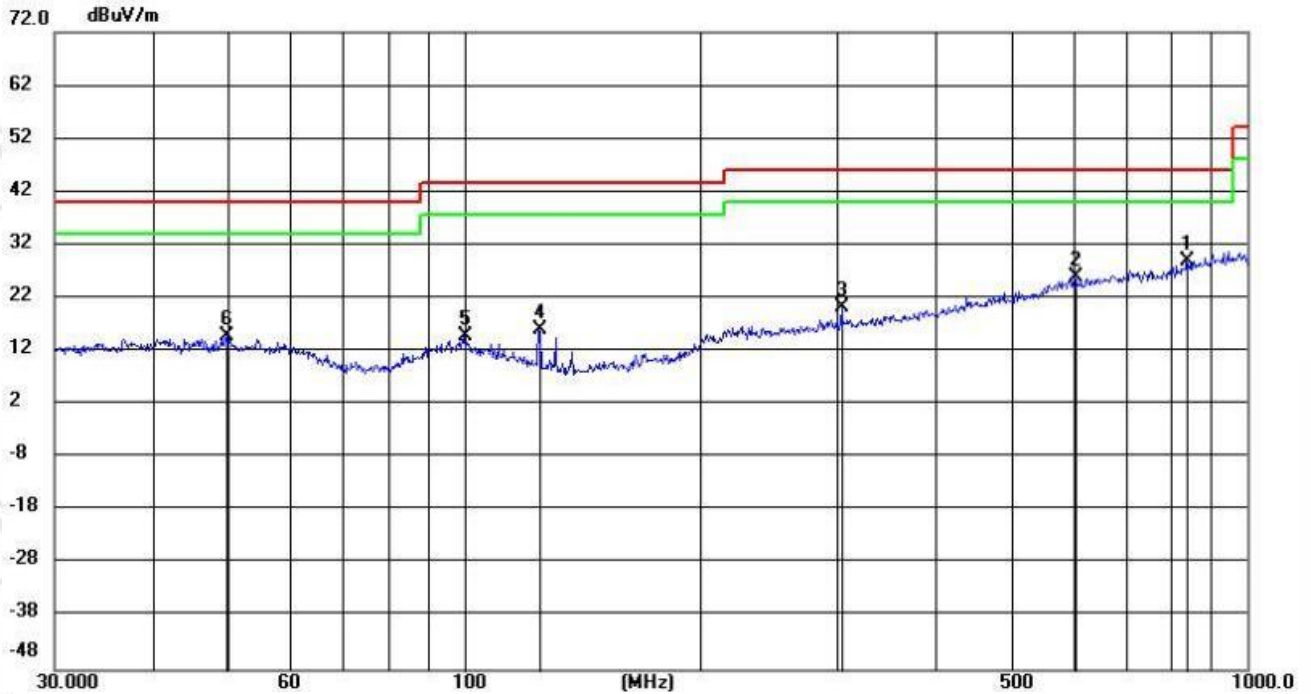
Test mode:	Transmitting (lowest channel)	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	904.7358	4.11	28.44	32.55	46.00	-13.45	peak	100	48	
2		581.2119	2.11	23.57	25.68	46.00	-20.32	peak	200	352	
3		304.2363	5.96	17.34	23.30	46.00	-22.70	peak	100	69	
4		137.4924	5.94	9.26	15.20	43.50	-28.30	peak	100	245	
5		90.9032	1.10	12.80	13.90	43.50	-29.60	peak	100	318	
6		49.9163	0.62	14.27	14.89	40.00	-25.11	peak	100	7	

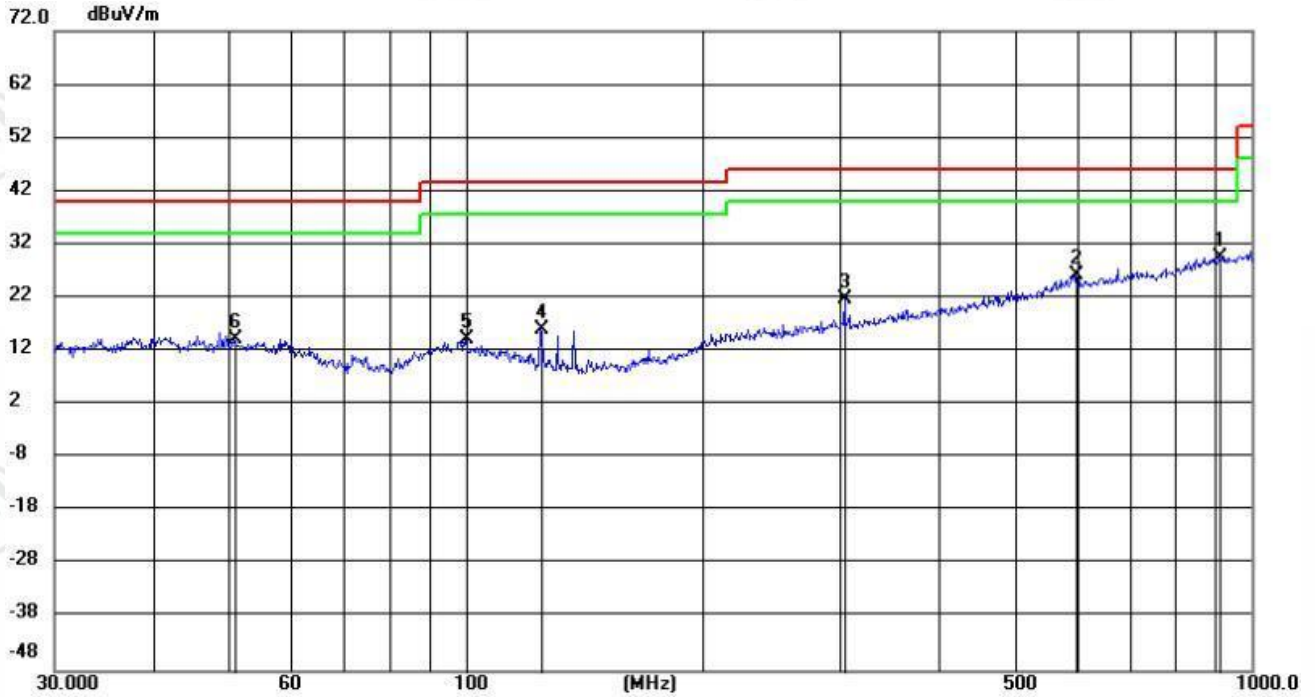


Test mode:	Transmitting (middle channel)	Vertical
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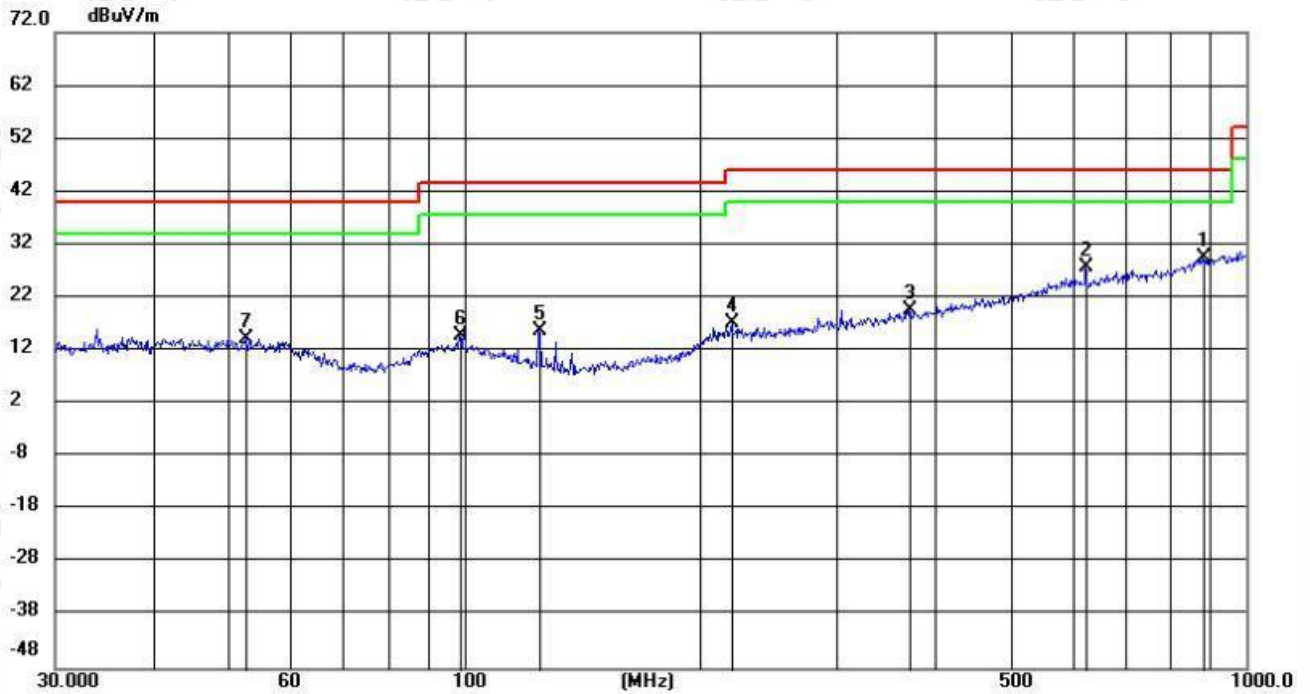
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Detector	Comment
1	*	838.2994	1.92	27.16	29.08	46.00	-16.92			peak	
2		602.1651	1.81	24.05	25.86	46.00	-20.14			peak	
3		304.2363	2.95	17.34	20.29	46.00	-25.71			peak	
4		124.9846	5.67	10.43	16.10	43.50	-27.40			peak	
5		100.0003	0.81	14.05	14.86	43.50	-28.64			peak	
6		49.8726	0.49	14.28	14.77	40.00	-25.23			peak	

Test mode:	Transmitting (middle channel)	Horizontal
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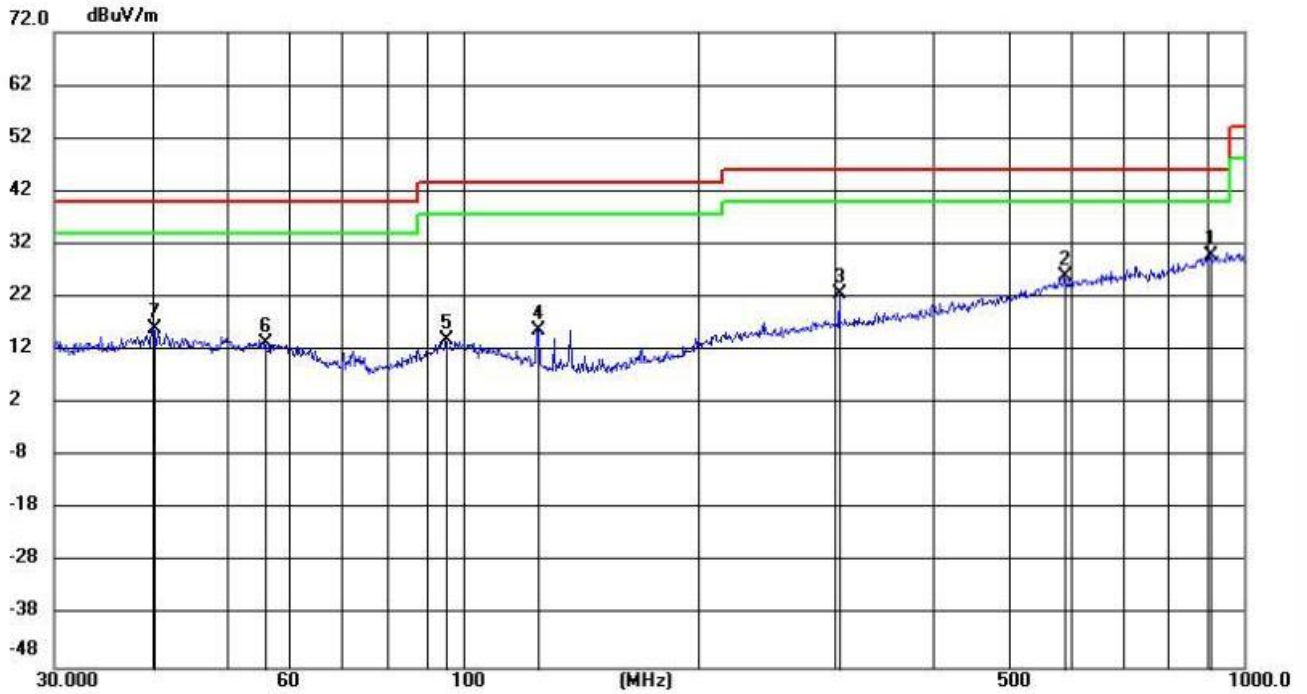
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	912.8620	1.00	28.48	29.48	46.00	-16.52	peak			
2		597.6423	2.17	23.97	26.14	46.00	-19.86	peak			
3		304.1830	4.44	17.34	21.78	46.00	-24.22	peak			
4		124.9846	5.69	10.43	16.12	43.50	-27.38	peak			
5		100.0003	0.18	14.05	14.23	43.50	-29.27	peak			
6		50.8260	0.05	14.21	14.26	40.00	-25.74	peak			

Test mode:	Transmitting (highest channel)	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1	*	880.3257	1.49	28.02	29.51	46.00	-16.49	peak	100	321
2		623.8736	3.46	24.21	27.67	46.00	-18.33	peak	100	17
3		371.8740	0.77	18.78	19.55	46.00	-26.45	peak	100	352
4		220.3465	2.80	14.49	17.29	46.00	-28.71	peak	200	17
5		124.9847	5.30	10.43	15.73	43.50	-27.77	peak	100	352
6		98.5557	0.94	13.85	14.79	43.50	-28.71	peak	200	338
7		52.6583	0.12	14.09	14.21	40.00	-25.79	peak	100	352

Test mode:	Transmitting(highest channel)	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	904.5772	1.27	28.44	29.71	46.00	-16.29	peak	100	297	
2		590.2488	2.03	23.79	25.82	46.00	-20.18	peak	100	142	
3		304.2363	5.30	17.34	22.64	46.00	-23.36	peak	200	352	
4		125.0065	5.45	10.43	15.88	43.50	-27.62	peak	100	328	
5		95.1263	0.44	13.38	13.82	43.50	-29.68	peak	200	352	
6		55.9418	-0.55	13.85	13.30	40.00	-26.70	peak	100	328	
7		40.2333	1.45	14.52	15.97	40.00	-24.03	peak	200	258	

**Above 1GHz:**

Test mode:			Transmitting (lowest channel)						
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1291.6292	1.04	39.49	40.53	74.00	33.47	PASS	Horizontal	PK
2	1806.0806	3.33	38.55	41.88	74.00	32.12	PASS	Horizontal	PK
3	4811.1207	-16.23	63.86	47.63	74.00	26.37	PASS	Horizontal	PK
4	7120.2747	-11.63	50.74	39.11	74.00	34.89	PASS	Horizontal	PK
5	10235.4824	-6.89	49.02	42.13	74.00	31.87	PASS	Horizontal	PK
6	11884.5923	-5.87	49.54	43.67	74.00	30.33	PASS	Horizontal	PK
7	1214.8215	0.83	39.40	40.23	74.00	33.77	PASS	Vertical	PK
8	1976.0976	4.42	37.43	41.85	74.00	32.15	PASS	Vertical	PK
9	4811.1207	-16.23	66.46	50.23	74.00	23.77	PASS	Vertical	PK
10	6897.2598	-11.84	50.66	38.82	74.00	35.18	PASS	Vertical	PK
11	10232.4822	-6.91	47.82	40.91	74.00	33.09	PASS	Vertical	PK
12	12548.6366	-4.48	47.91	43.43	74.00	30.57	PASS	Vertical	PK

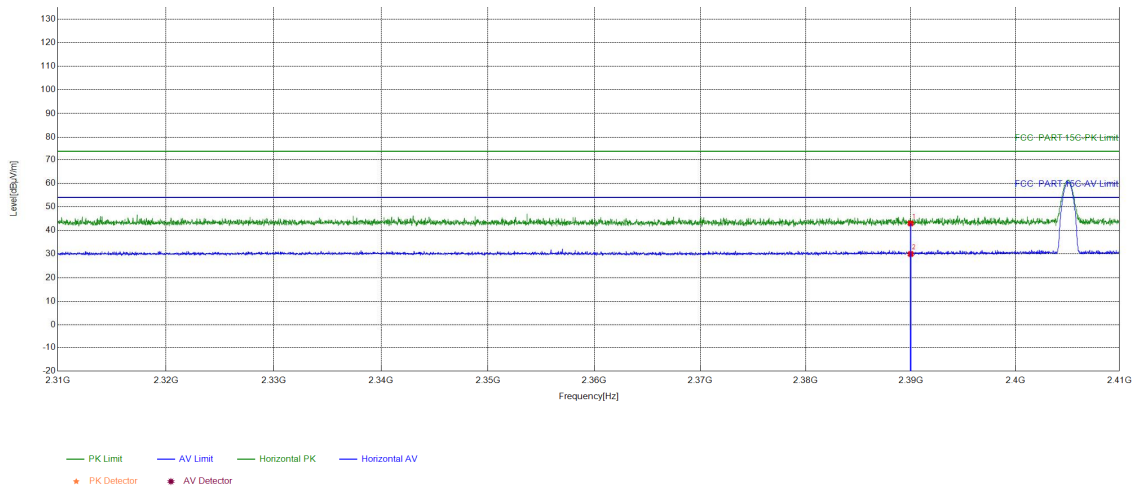
Test mode:			Transmitting (middle channel)						
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1267.6268	0.98	38.80	39.78	74.00	34.22	PASS	Horizontal	PK
2	1957.2957	4.33	37.52	41.85	74.00	32.15	PASS	Horizontal	PK
3	4881.1254	-16.21	65.23	49.02	74.00	24.98	PASS	Horizontal	PK
4	7321.2881	-11.65	53.38	41.73	74.00	32.27	PASS	Horizontal	PK
5	9236.4158	-7.91	49.00	41.09	74.00	32.91	PASS	Horizontal	PK
6	11719.5813	-6.22	49.94	43.72	74.00	30.28	PASS	Horizontal	PK
7	1291.4291	1.04	38.69	39.73	74.00	34.27	PASS	Vertical	PK
8	2107.9108	4.79	37.65	42.44	74.00	31.56	PASS	Vertical	PK
9	3341.0227	-19.96	55.72	35.76	74.00	38.24	PASS	Vertical	PK
10	4881.1254	-16.21	66.79	50.58	74.00	23.42	PASS	Vertical	PK
11	7321.2881	-11.65	52.35	40.70	74.00	33.30	PASS	Vertical	PK
12	11222.5482	-6.48	48.55	42.07	74.00	31.93	PASS	Vertical	PK

Test mode:			Transmitting (highest channel)						
NO	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Result	Polarity	Remark
1	1148.2148	0.83	39.82	40.65	74.00	33.35	PASS	Horizontal	PK
2	1727.8728	3.03	37.98	41.01	74.00	32.99	PASS	Horizontal	PK
3	3793.0529	-19.29	54.53	35.24	74.00	38.76	PASS	Horizontal	PK
4	4951.1301	-16.01	64.19	48.18	74.00	25.82	PASS	Horizontal	PK
5	7426.2951	-11.40	54.47	43.07	74.00	30.93	PASS	Horizontal	PK
6	13128.6752	-3.52	47.77	44.25	74.00	29.75	PASS	Horizontal	PK
7	1164.2164	0.81	39.65	40.46	74.00	33.54	PASS	Vertical	PK
8	1679.2679	2.80	38.37	41.17	74.00	32.83	PASS	Vertical	PK
9	3451.0301	-20.11	55.38	35.27	74.00	38.73	PASS	Vertical	PK
10	4951.1301	-16.01	66.35	50.34	74.00	23.66	PASS	Vertical	PK
11	7426.2951	-11.40	54.12	42.72	74.00	31.28	PASS	Vertical	PK
12	10301.4868	-6.46	47.74	41.28	74.00	32.72	PASS	Vertical	PK

**Restricted bands:**

Test_Mode	2.4G TX	Test_Frequency	2405MHz
Remark			

**Test Graph**

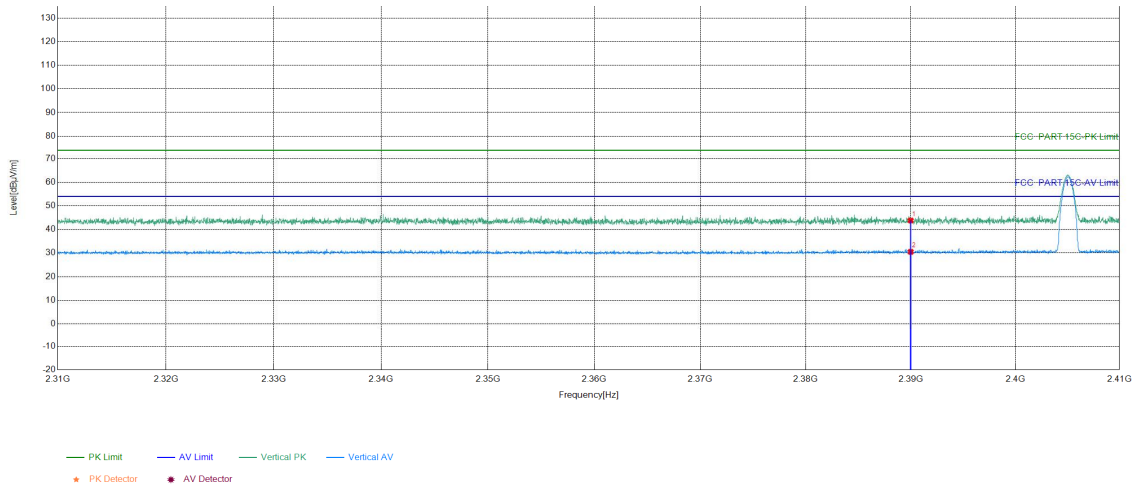


**Suspected List**

NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	37.21	42.98	74.00	31.02	PASS	Horizontal	PK
2	2390	5.77	24.26	30.03	54.00	23.97	PASS	Horizontal	AV

Test_Mode	2.4G TX	Test_Frequency	2405MHz
Remark			

### Test Graph

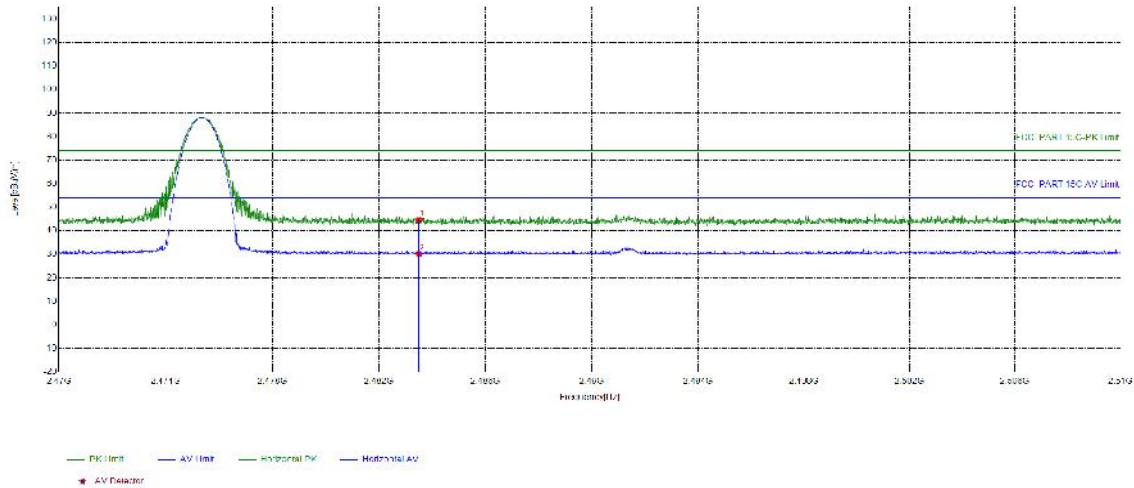


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	5.77	38.03	43.80	74.00	30.20	PASS	Vertical	PK
2	2390	5.77	24.74	30.51	54.00	23.49	PASS	Vertical	AV



Test_Mode	2.4G TX	Test_Frequency	2475MHz
Remark			

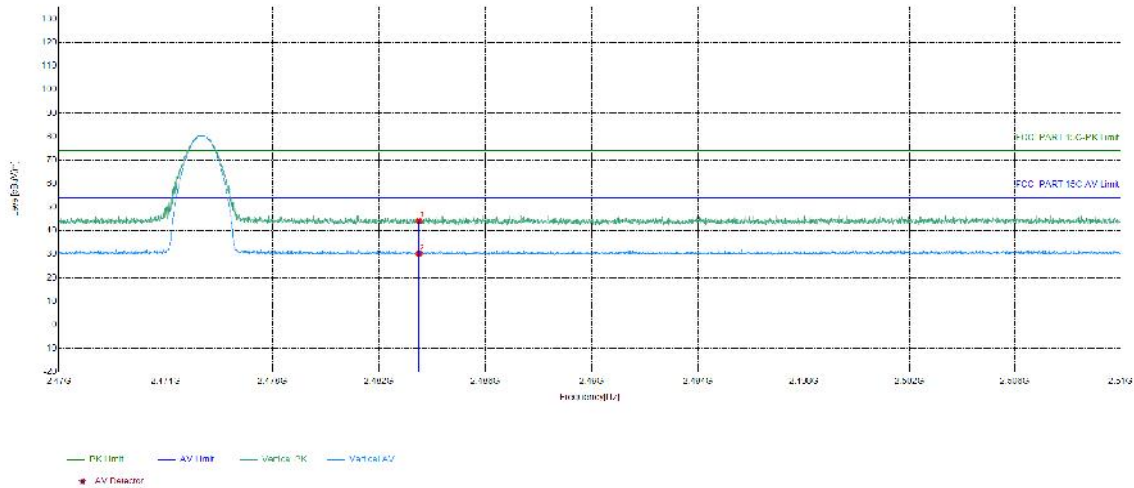
### Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	38.03	44.60	74.00	29.40	PASS	Horizontal	PK
2	2483.5	6.57	23.50	30.07	54.00	23.93	PASS	Horizontal	AV

Test_Mode	2.4G TX	Test_Frequency	2475MHz
Remark			

### Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	6.57	37.63	44.20	74.00	29.80	PASS	Vertical	PK
2	2483.5	6.57	23.65	30.22	54.00	23.78	PASS	Vertical	AV

**Remark:**

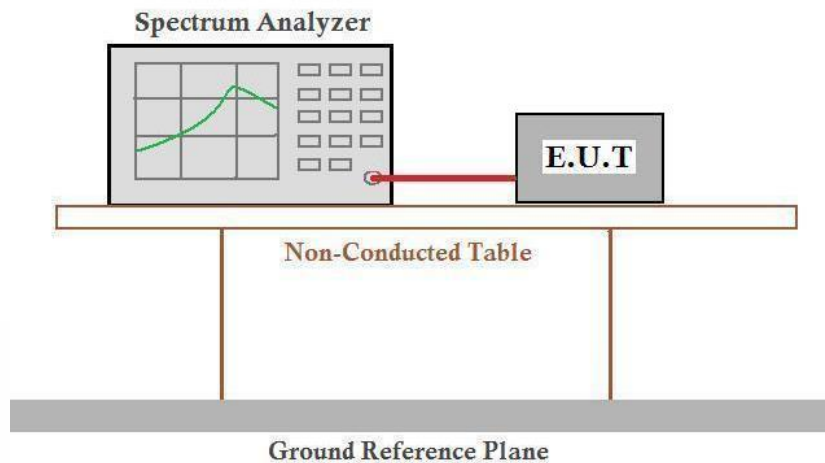
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Correct Factor  
 Correct Factor = Antenna Factor + Cable Factor - Pre-amplifier Factor
- Scan from 9kHz to 25GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## 6.3 20dB Bandwidth

**Test Requirement:** 47 CFR Part 15C Section 15.215

**Test Method:** ANSI C63.10: 2013

**Test Setup:**



**Test Procedure:**

Remark: Offset=Cable loss+ attenuation factor.

1) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

2) Set to the maximum power setting and enable the EUT transmit continuously.

3) Use the following spectrum analyzer settings for 20dB Bandwidth measurement.

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a test channel;  $1\% \leq RBW \leq 5\%$  of the 20 dB bandwidth;  $VBW \geq 3RBW$ ;

Sweep = auto; Detector function = peak; Trace = max hold.

4) Measure and record the results in the test report.

**Limit:**

N/A

**Test Mode:**

Transmitter mode

**Test Results:**

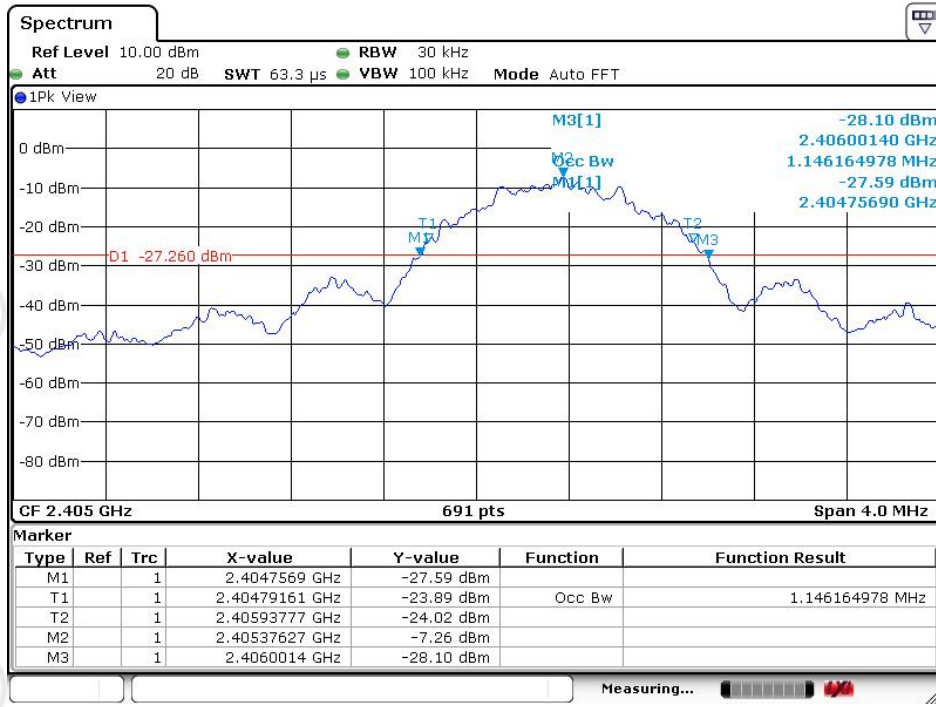
Pass

### Measurement Data

Test Channel	20dB bandwidth (MHz)	Results
Lowest	1.2445	Pass
Middle	1.2735	Pass
Highest	1.2677	Pass

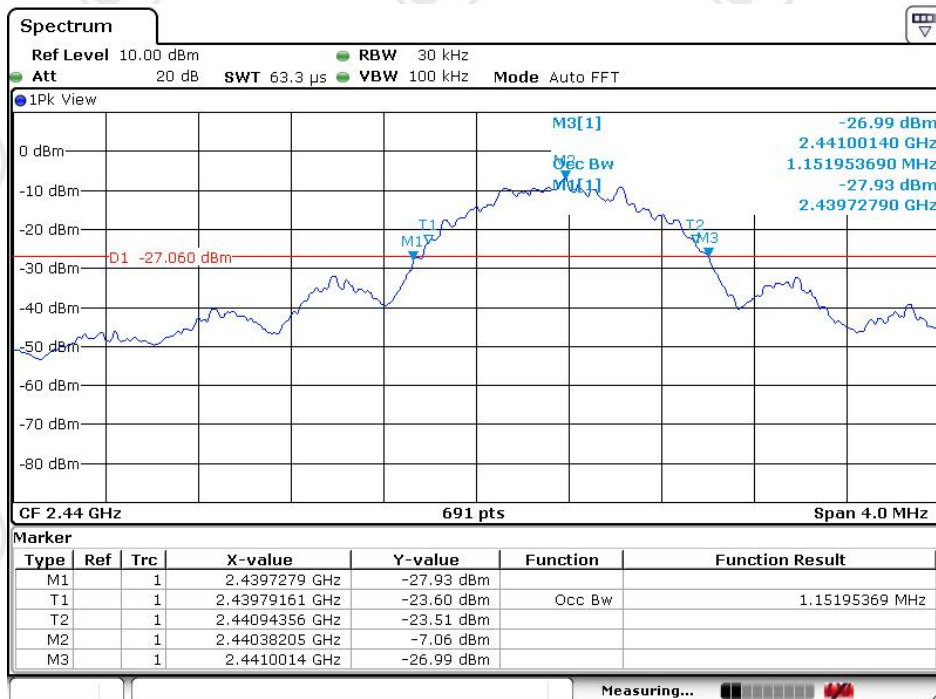
Test plot as follows:

Test channel: Lowest



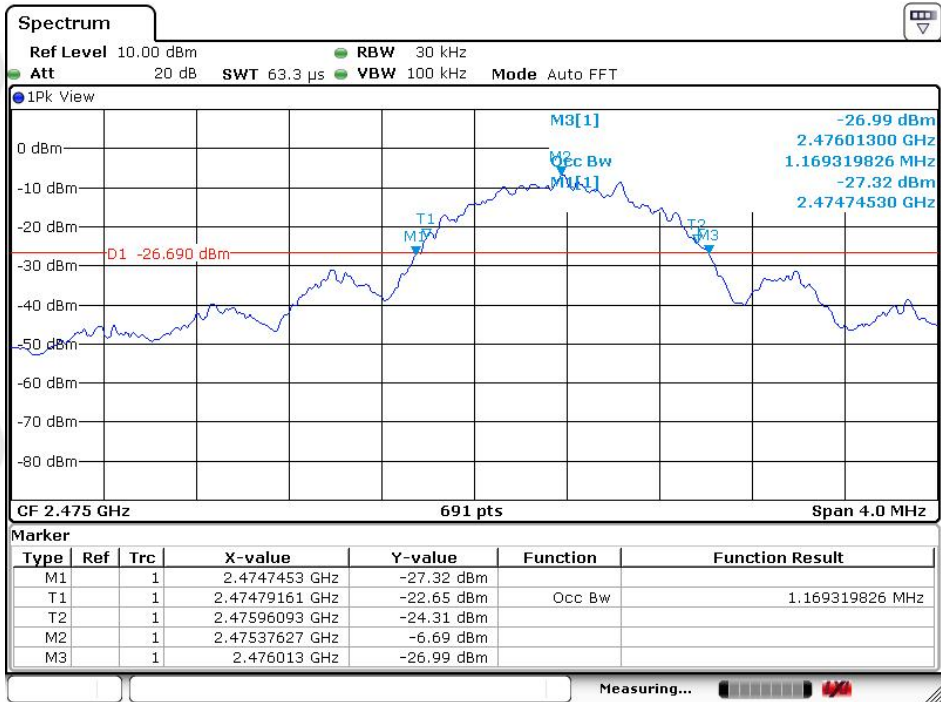
Date: 9 JUN 2023 01:32:48

Test channel: Middle



Date: 9 JUN 2023 01:33:49

Test channel: Highest



Date: 9 JUN 2023 01:34:45