

TEST REPORT

Product : Digital Video Monitor
Trade mark : Infant Optics
Model/Type reference : DXR9PPZ-A, DXR-9
Serial Number : N/A
Report Number : EED32R80291201
FCC ID : 2AAAM-DXR9PPZ-ABU
Date of Issue : Jul. 07, 2025
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Standard Merit Industrial Limited
604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong

Prepared by:

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Date:

Jul. 07, 2025



Check No.: 8708050325

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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

Remark:

Model No.: DXR9PPZ-A, DXR-9;

Only the model DXR9PPZ-A was tested, Any of adaptor bearing the following model numbers are said to be identical in cosmetics, materials, PCB layout, electrical, mechanical, and physical design, including software/firmware and they are different in model number only.

3 General Information

3.1 Client Information

Applicant:	Standard Merit Industrial Limited
Address of Applicant:	604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong
Manufacturer:	Standard Merit Industrial Limited
Address of Manufacturer:	604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong
Factory:	Standard Merit Industrial Limited
Address of Factory:	604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong

3.2 General Description of EUT

Product Name:	Digital Video Monitor	
Model No.:	DXR9PPZ-A, DXR-9	
Test Model No.:	DXR9PPZ-A	
Trade mark:	Infant Optics	
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location	
Operation Frequency:	2410MHz~2477MHz	
Modulation Type:	GFSK	
Transfer Rate:	5Mbps	
Number of Channel:	20	
Antenna Type:	External antenna	
Antenna Gain:	0dBi	
Power Supply:	Adapter:	DC 5V
Test Voltage:	DC 5V	
Sample Received Date:	Mar. 12, 2025	
Sample tested Date:	Mar. 12, 2025 to Mar. 31, 2025	

Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2410MHz	6	2431MHz	12	2452MHz	18	2473MHz
1	2413.5MHz	7	2434.5MHz	13	2455.5MHz	19	2477MHz
2	2417MHz	8	2438MHz	14	2459MHz		
3	2420.5MHz	9	2441.5MHz	15	2462.5MHz		
4	2424MHz	10	2445MHz	16	2466MHz		
5	2427.5MHz	11	2448.5MHz	17	2469.5MHz		

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:

Channel	Frequency(MHz)
The lowest channel (CH0)	2410MHz
The middle channel (CH9)	2441.5MHz
The highest channel (CH19)	2477MHz

3.3 Test Configuration

EUT Test Software Settings:				
Test Software:		N/A		
EUT Power Grade:		Default (Power level is built-in set parameters and cannot be changed and selected)		
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.				
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	5Mbps	CH0	2410
Mode b	GFSK	5Mbps	CH10	2441.5
Mode c	GFSK	5Mbps	CH19	2477

3.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

3.6 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

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
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-150kHz)
		3.1dB (150kHz-30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024	12-104-2025
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024	11-29-2025
DC Power	Keysight	E3642A	MY56376072	11-30-2024	11-29-2025
Communication test set	R&S	CMW500	169004	03-03-2025	03-02-2026
RF control unit(power unit)	JS Tonscend	JS0806-2	22G8060592	07-22-2024	07-21-2025
Wi-Fi 7GHz Band Extender	JS Tonscend	TS-WF7U2	2206200002	05-31-2024	05-30-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20	---	---
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---

Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05/22/2022	05/21/2025
Receiver	R&S	ESC17	100938-003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	05/22/2022	05/21/2025
Cable line	Fulai(6M)	SF106	5220/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5216/6A	05/22/2022	05/21/2025
Cable line	Fulai(3M)	SF106	5217/6A	05/22/2022	05/21/2025

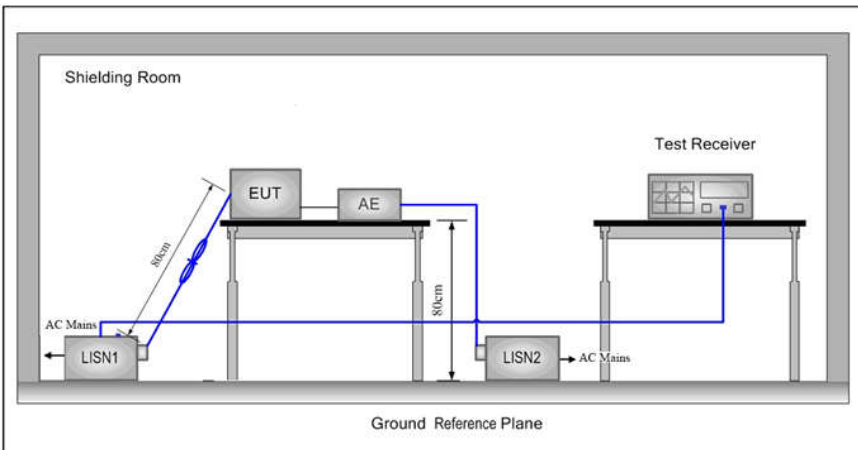
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-03-2025	03-02-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Communication test set	R&S	CMW500	102898	01-04-2025	01-03-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	05/22/2022	05/21/2025
Cable line	Times	EMC104-NMNM-1000	SN160710	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	05/22/2022	05/21/2025
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	05/22/2022	05/21/2025
Cable line	Times	HF160-KMKM-3.00M	393493-0001	05/22/2022	05/21/2025

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	Please see Internal photos
The antenna is External antenna. The best case gain of the antenna is 0dBi.	

5.2 Conducted Emissions

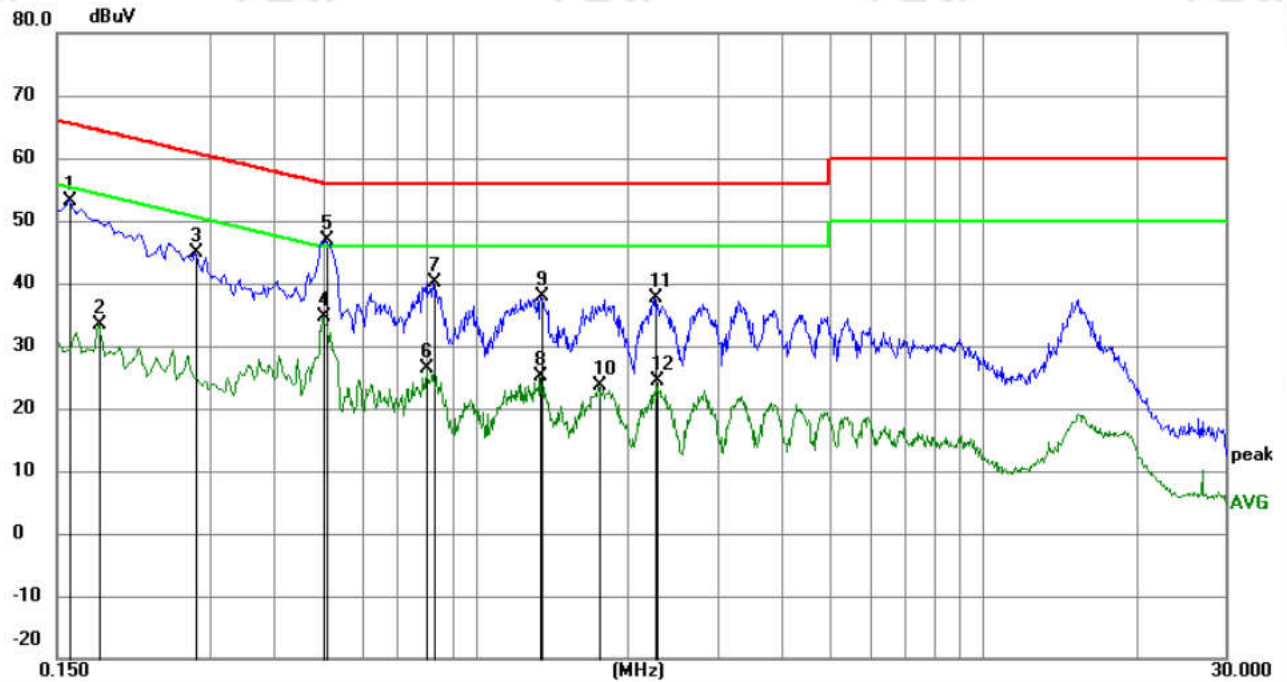
Test Requirement:	47 CFR Part 15C Section 15.207															
Test Method:	ANSI C63.10: 2013															
Test Frequency Range:	150kHz to 30MHz															
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto															
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr> <tr> <th>Quasi-peak</th><th>Average</th></tr> </thead> <tbody> <tr> <td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr> <tr> <td>0.5-5</td><td>56</td><td>46</td></tr> <tr> <td>5-30</td><td>60</td><td>50</td></tr> </tbody> </table> * Decreases with the logarithm of the frequency.		Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)															
	Quasi-peak	Average														
0.15-0.5	66 to 56*	56 to 46*														
0.5-5	56	46														
5-30	60	50														
Test Setup:																
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.															
Test Mode:	All modes were tested, only the worst case mode a was recorded in the report.															

Test Results:

Pass

Measurement Data

Live line:

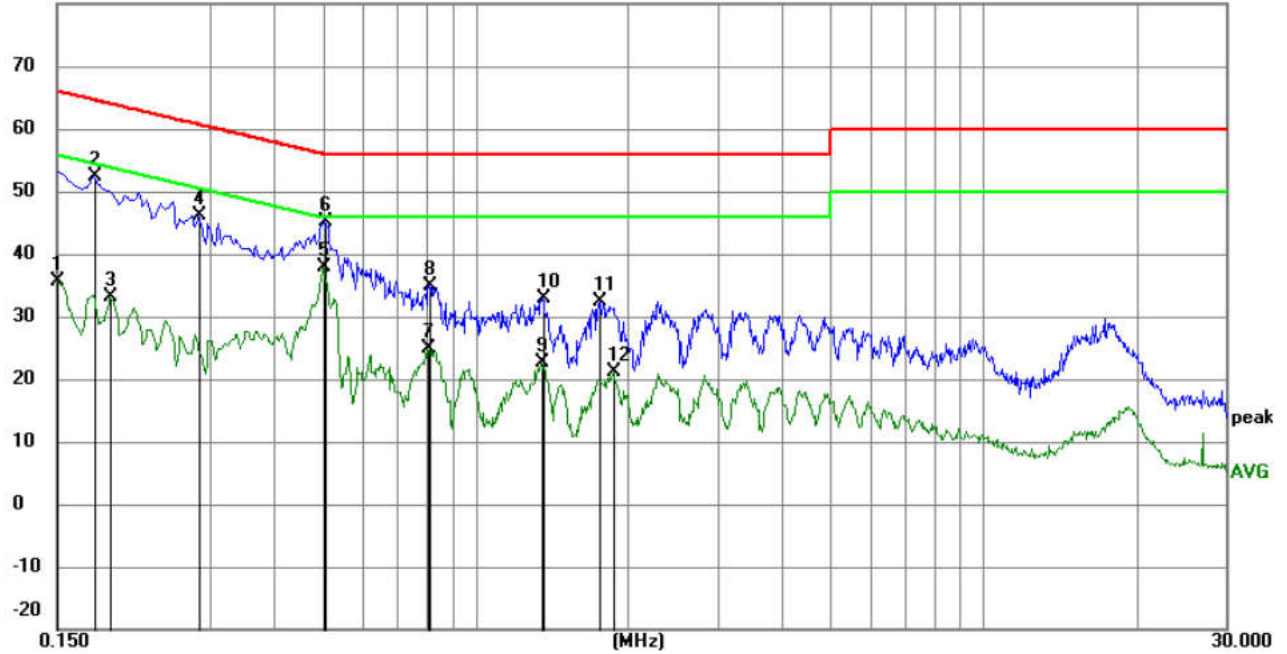


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	42.98	10.27	53.25	65.52	-12.27	QP	
2		0.1815	23.26	10.24	33.50	54.42	-20.92	AVG	
3		0.2805	34.61	10.15	44.76	60.80	-16.04	QP	
4		0.5010	24.52	10.08	34.60	46.00	-11.40	AVG	
5	*	0.5100	36.69	10.08	46.77	56.00	-9.23	QP	
6		0.8025	16.11	10.18	26.29	46.00	-19.71	AVG	
7		0.8295	30.07	10.18	40.25	56.00	-15.75	QP	
8		1.3425	14.90	10.18	25.08	46.00	-20.92	AVG	
9		1.3470	27.62	10.18	37.80	56.00	-18.20	QP	
10		1.7520	13.48	10.17	23.65	46.00	-22.35	AVG	
11		2.2515	27.39	10.16	37.55	56.00	-18.45	QP	
12		2.2830	14.12	10.16	24.28	46.00	-21.72	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:
80.0 dBuV

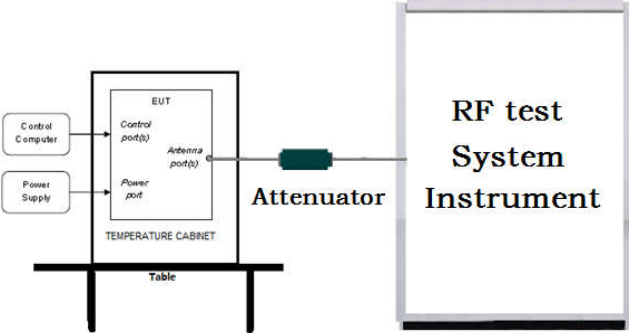


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	25.42	10.28	35.70	56.00	-20.30	AVG	
2		0.1770	42.23	10.24	52.47	64.63	-12.16	QP	
3		0.1905	22.84	10.22	33.06	54.01	-20.95	AVG	
4		0.2850	35.87	10.14	46.01	60.67	-14.66	QP	
5	*	0.5010	27.70	10.08	37.78	46.00	-8.22	AVG	
6		0.5055	35.17	10.08	45.25	56.00	-10.75	QP	
7		0.8070	14.58	10.18	24.76	46.00	-21.24	AVG	
8		0.8115	24.64	10.18	34.82	56.00	-21.18	QP	
9		1.3515	12.34	10.18	22.52	46.00	-23.48	AVG	
10		1.3560	22.58	10.18	32.76	56.00	-23.24	QP	
11		1.7610	22.33	10.17	32.50	56.00	-23.50	QP	
12		1.8690	10.88	10.17	21.05	46.00	-24.95	AVG	

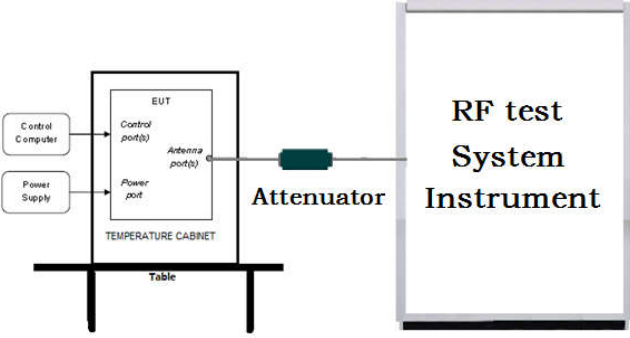
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

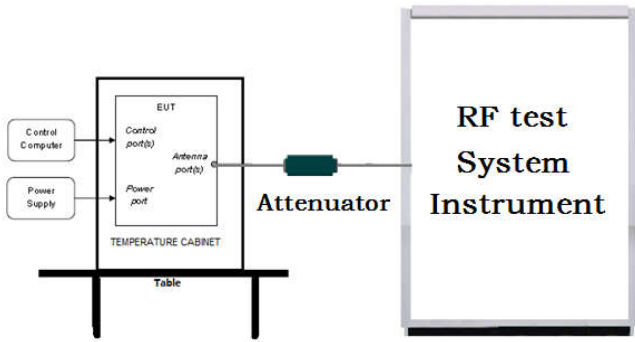
5.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set the RBW $\geq$ DTS bandwidth. b) Set VBW $\geq 3 \times$ RBW. c) Set span $\geq 3 \times$ RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

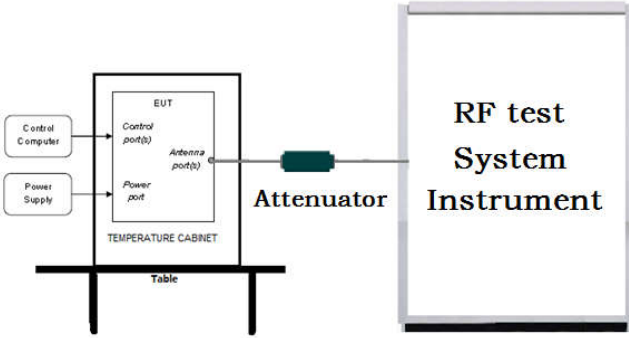
5.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Limit:	$\geq 500 \text{ kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

5.5 Maximum Power Spectral Density

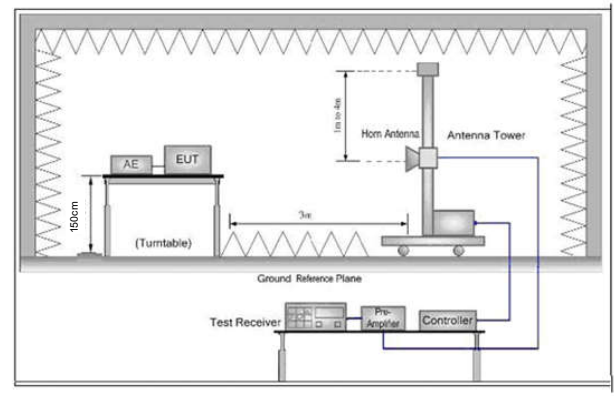
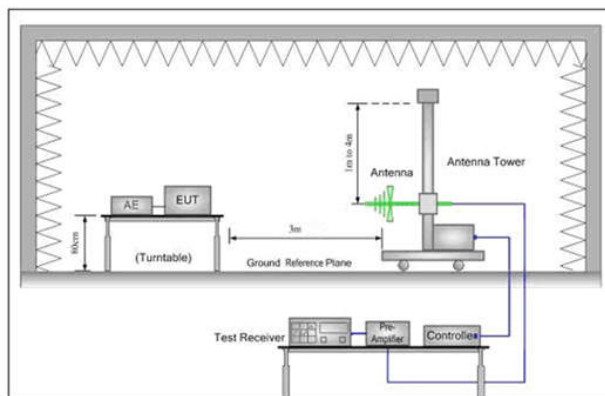
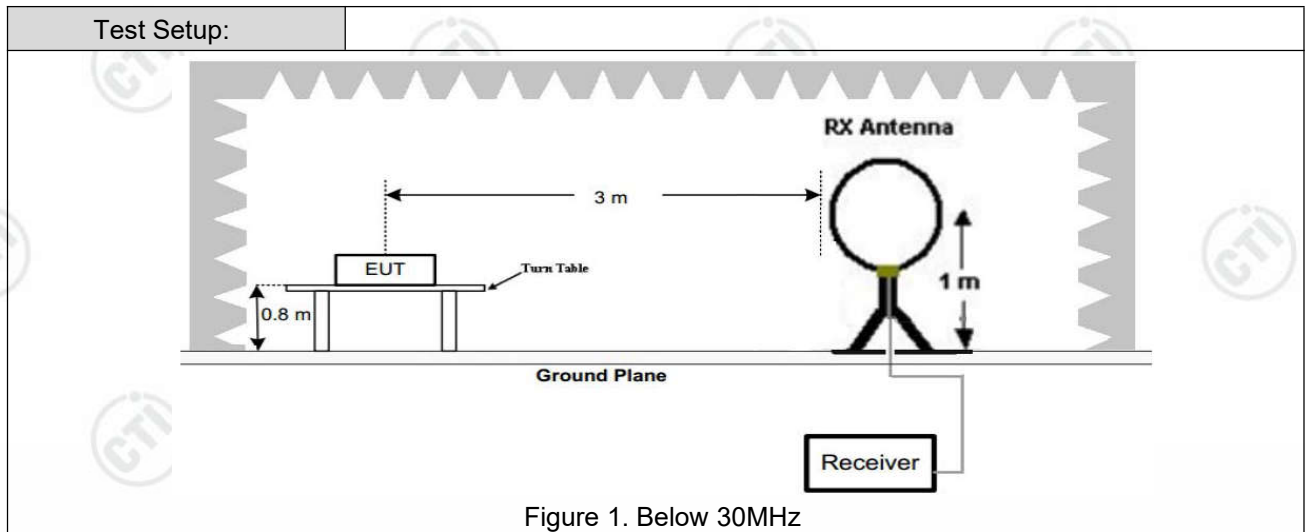
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. d) Set the VBW $\geq [3 \times \text{RBW}]$. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	$\leq 8.00 \text{ dBm}/3 \text{ kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

5.6 Band Edge measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW =100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

5.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013				
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	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/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.					



Test Procedure:

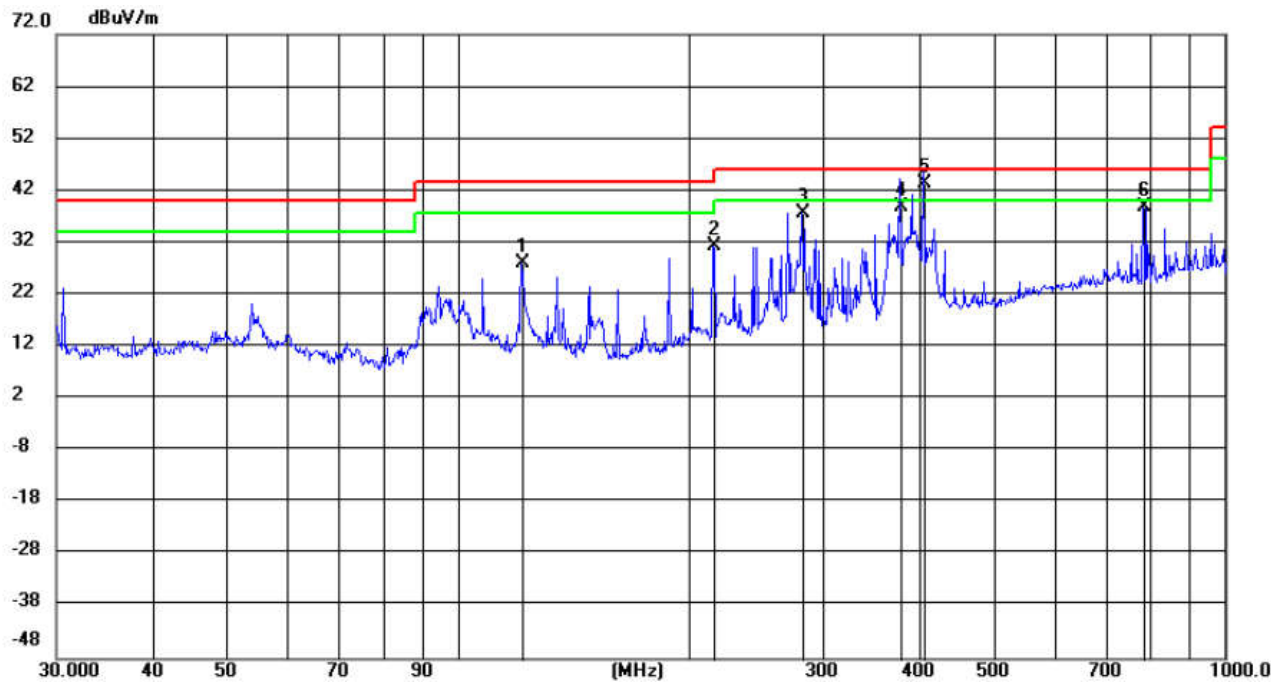
- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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. d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass

Radiated Spurious Emission below 1GHz:

Horizontal:

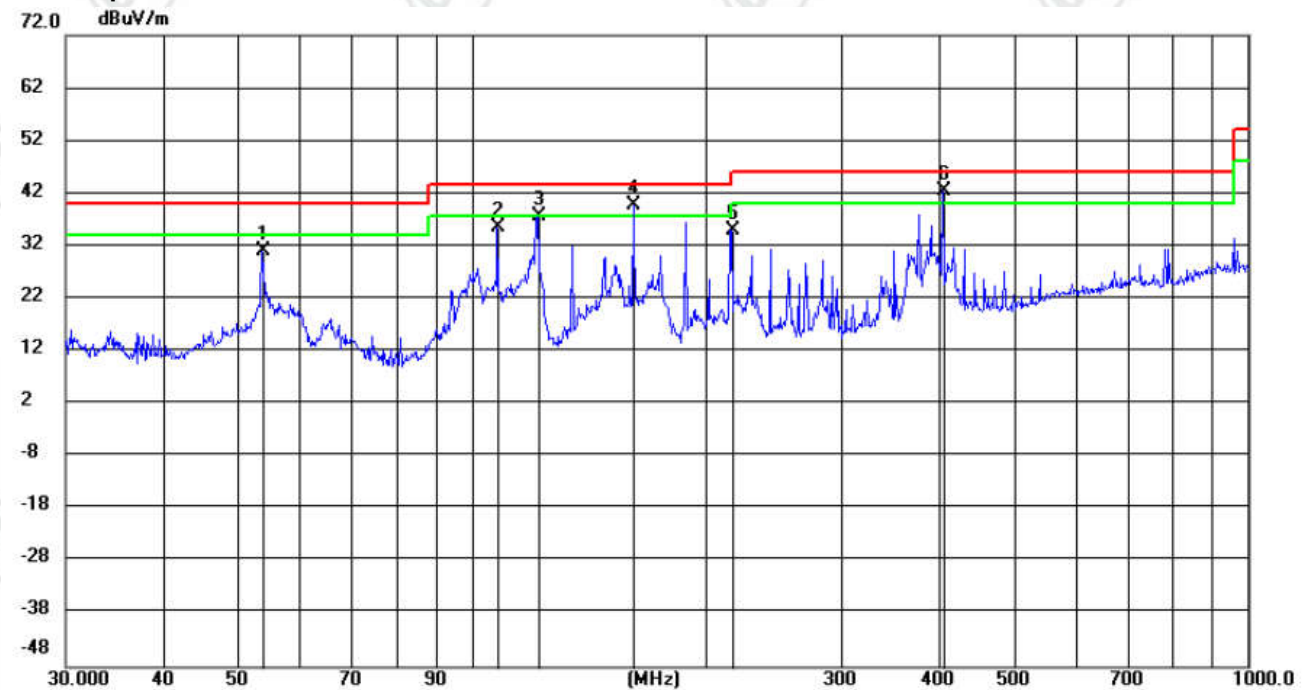
Test Graph



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		121.5272	16.63	11.49	28.12	43.50	-15.38	QP	199	38
2		215.9861	17.86	13.39	31.25	43.50	-12.25	QP	100	280
3		281.5006	21.84	15.88	37.72	46.00	-8.28	QP	100	172
4		377.9873	20.07	18.93	39.00	46.00	-7.00	QP	199	7
5	*	405.0214	23.64	19.66	43.30	46.00	-2.70	QP	199	7
6		783.0314	14.10	24.82	38.92	46.00	-7.08	QP	100	259

Vertical:

Test Graph



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	
1		53.7591	16.81	14.10	30.91	40.00	-9.09	QP	100	334
2		108.0013	21.61	14.00	35.61	43.50	-7.89	QP	100	28
3	!	121.5486	26.03	11.49	37.52	43.50	-5.98	QP	100	70
4	!	161.9846	28.98	10.84	39.82	43.50	-3.68	QP	100	101
5		216.0240	21.62	13.39	35.01	46.00	-10.99	QP	100	7
6	*	405.0214	22.68	19.66	42.34	46.00	-3.66	QP	100	7

Radiated Spurious Emission above 1GHz:

Mode:			2.4G Transmitting			Channel:		2410 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1149.61	10.40	37.57	47.97	74.00	26.03	Pass	H	PK
2	1461.3641	10.58	37.33	47.91	74.00	26.09	Pass	H	PK
3	3704.647	-12.56	51.86	39.30	74.00	34.70	Pass	H	PK
4	6111.7574	-5.94	46.65	40.71	74.00	33.29	Pass	H	PK
5	7750.5167	-3.09	46.68	43.59	74.00	30.41	Pass	H	PK
6	12400.2767	5.85	43.89	49.74	74.00	24.26	Pass	H	PK
7	1163.3442	9.97	37.84	47.81	74.00	26.19	Pass	V	PK
8	1400.8267	10.63	37.16	47.79	74.00	26.21	Pass	V	PK
9	3439.4293	-12.80	53.19	40.39	74.00	33.61	Pass	V	PK
10	4822.0715	-10.42	51.14	40.72	74.00	33.28	Pass	V	PK
11	7936.4291	-1.84	44.93	43.09	74.00	30.91	Pass	V	PK
12	12291.7194	5.75	45.14	50.89	74.00	23.11	Pass	V	PK

Mode:			2.4G Transmitting			Channel:		2441.5 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1163.4776	9.96	37.28	47.24	74.00	26.76	Pass	H	PK
2	1421.0947	10.62	37.37	47.99	74.00	26.01	Pass	H	PK
3	3450.48	-12.64	52.67	40.03	74.00	33.97	Pass	H	PK
4	4710.264	-9.16	49.27	40.11	74.00	33.89	Pass	H	PK
5	7835.0223	-2.93	46.91	43.98	74.00	30.02	Pass	H	PK
6	11349.1566	5.12	44.11	49.23	74.00	24.77	Pass	H	PK
7	1149.4766	10.39	37.89	48.28	74.00	25.72	Pass	V	PK
8	1445.6297	10.63	37.52	48.15	74.00	25.85	Pass	V	PK
9	3448.5299	-12.64	53.46	40.82	74.00	33.18	Pass	V	PK
10	4885.1257	-9.73	50.12	40.39	74.00	33.61	Pass	V	PK
11	7765.4677	-3.27	46.87	43.60	74.00	30.40	Pass	V	PK
12	9798.8033	3.36	45.17	48.53	74.00	25.47	Pass	V	PK

Mode:			2.4G Transmitting			Channel:		2477 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1149.8767	10.41	37.65	48.06	74.00	25.94	Pass	H	PK
2	1399.6266	10.63	37.61	48.24	74.00	25.76	Pass	H	PK
3	3432.2788	-12.92	53.32	40.40	74.00	33.60	Pass	H	PK
4	4700.5134	-8.96	49.14	40.18	74.00	33.82	Pass	H	PK
5	7575.005	-3.99	48.10	44.11	74.00	29.89	Pass	H	PK
6	11238.6492	5.54	44.90	50.44	74.00	23.56	Pass	H	PK
7	1143.0762	10.18	37.39	47.57	74.00	26.43	Pass	V	PK
8	1388.9593	10.52	37.54	48.06	74.00	25.94	Pass	V	PK
9	3452.4302	-12.72	52.84	40.12	74.00	33.88	Pass	V	PK
10	6116.9578	-6.02	47.51	41.49	74.00	32.51	Pass	V	PK
11	7822.6715	-3.20	47.32	44.12	74.00	29.88	Pass	V	PK
12	11239.9493	5.58	43.74	49.32	74.00	24.68	Pass	V	PK

Remark:

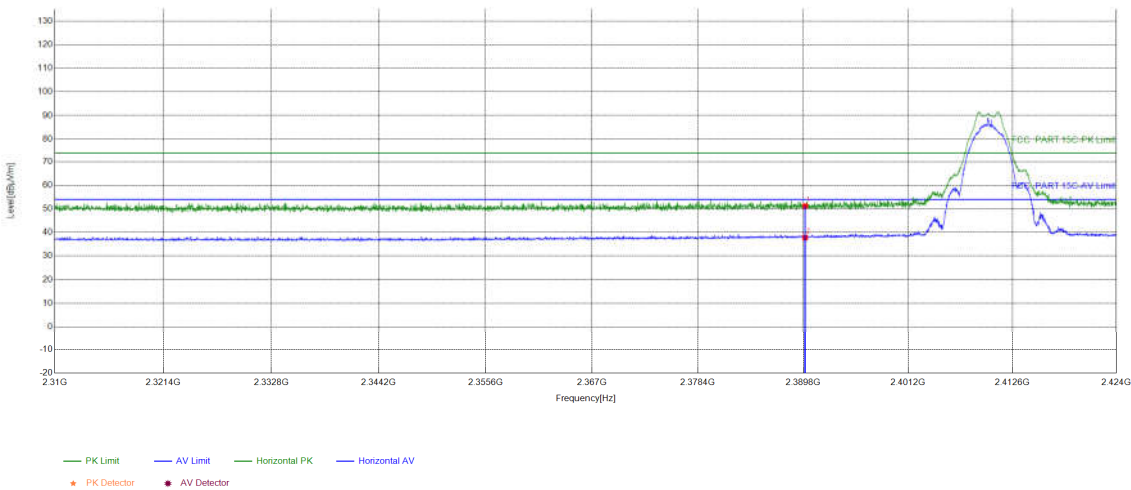
- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

Restricted bands:

Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	2.4G	Test_Frequency	2410Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/31
Remark			

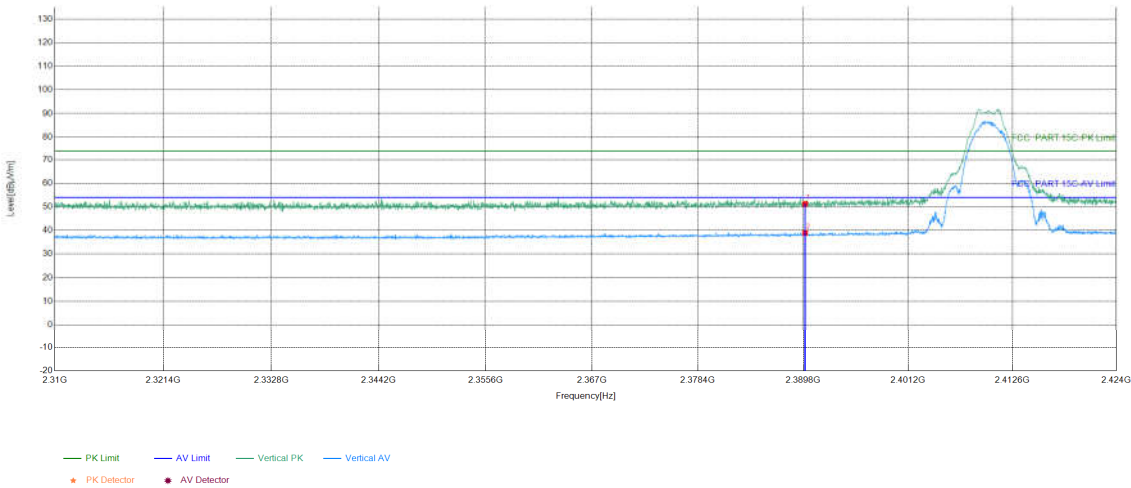
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	35.89	51.20	74.00	22.80	PASS	Horizontal	PK
2	2390	15.31	22.50	37.81	54.00	16.19	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	2.4G	Test_Frequency	2410Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/31
Remark			

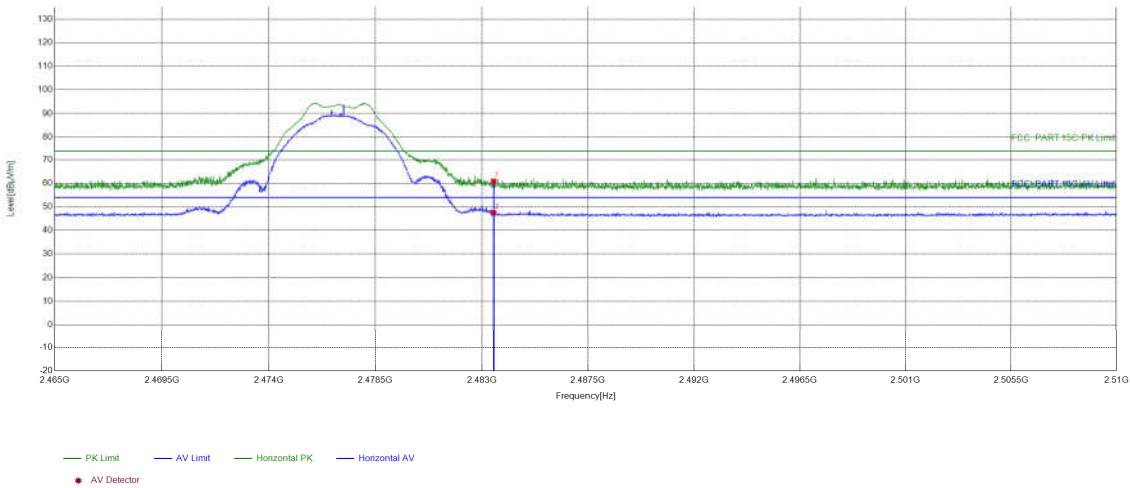
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	36.00	51.31	74.00	22.69	PASS	Vertical	PK
2	2390	15.31	23.65	38.96	54.00	15.04	PASS	Vertical	AV

EUT_Name		Test_Model	
Test_Mode	2.4G	Test_Frequency	2477Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/31
Remark			

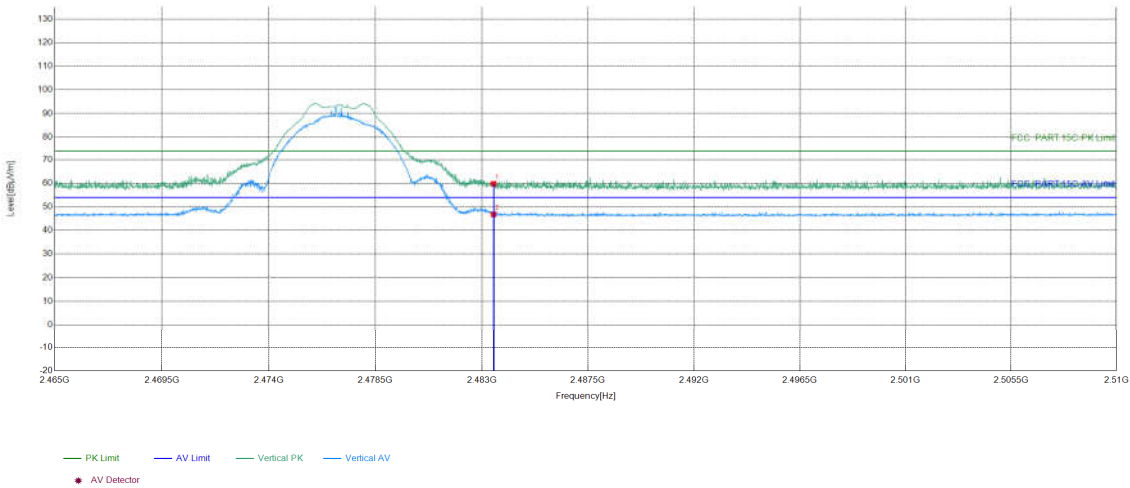
Test Graph



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	45.67	60.83	74.00	13.17	PASS	Horizontal	PK
2	2483.5	15.16	32.22	47.38	54.00	6.62	PASS	Horizontal	AV

EUT_Name		Test_Model	
Test_Mode	2.4G	Test_Frequency	2477Mhz
Tset_Engineer	chenjun	Test_Date	2025/03/31
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	15.16	44.58	59.74	74.00	14.26	PASS	Vertical	PK
2	2483.5	15.16	31.64	46.80	54.00	7.20	PASS	Vertical	AV

Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading -Correct Factor
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

6 Appendix A

Refer to Appendix: 2.4G of EED32R80291201

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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