FCC Radio Test Report

FCC ID: Y34-UITBSM

Original Grant

Report No.	:	TB-FCC145816
Applicant	:	Outform Ltd
Equipment Under Test (EUT)		
EUT Name	:	32''IDISPLAY
Model No.	:	UIT232B-B06
Series Model No.	:	Please see the page of 4
Brand Name	:	N/A
Receipt Date	:	2015-10-22
Test Date	:	2015-10-22 to 2015-10-28
Issue Date	:	2015-10-29
Standards	:	FCC Part 15, Subpart C (15.247:2015)
Test Method	:	ANSI C63.10:2013
Conclusions	:	**PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer : IVAN SU

Approved& Authorized :

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, China
Tel: +86 75526509301 Fax: +86 75526509195

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1. General Information about EUT

1.1 Client Information

Applicant	:	Outform Ltd
Address	:	R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China
Manufacturer	:	Outform Ltd
Address	:	R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	32"IDISPLAY	
Models No.	:	UIT232B-B06, UIT232X-XYY, UIT213X-XYY, UIT310X-XYY, UIT306X-XYY, UIT332X-XYY, UIT432X-XYY (The 1st X is "A" or "B" represents the software version; The 2nd X is A-Z represents the color; YY is client number from "01" to "50".)	
Model Difference	:	They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color.	
Product Description	:	Operation Frequency: WIFI 802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz BLE: 2402MHz~2480MHz **see note(2)**	
		Number of Channel:	802.11b/g/n(HT20):11 channels **see note(3)** 802.11n(HT40): 9 channels **see note(3)**
		RF Output Power:	802.11b: 19.64dBm 802.11g: 18.02dBm 802.11n (HT20): 16.95dBm 802.11n (HT40): 14.23dBm
		Antenna Gain:	2.12 dBi Embedded Antenna
		Modulation Type:	802.11b:DSSS(CCK, DQPSK, DBPSK) 802.11g/n:OFDM(BPSK,QPSK,16QAM,64QAM)
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC power supplied by Switching Adapter.	
Power Rating	:	Switching Adapter: Input:100~240V, 50/60Hz 1.5A Max Output:12V, 5000mA	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for BLE function, and recorded in the separate test report.

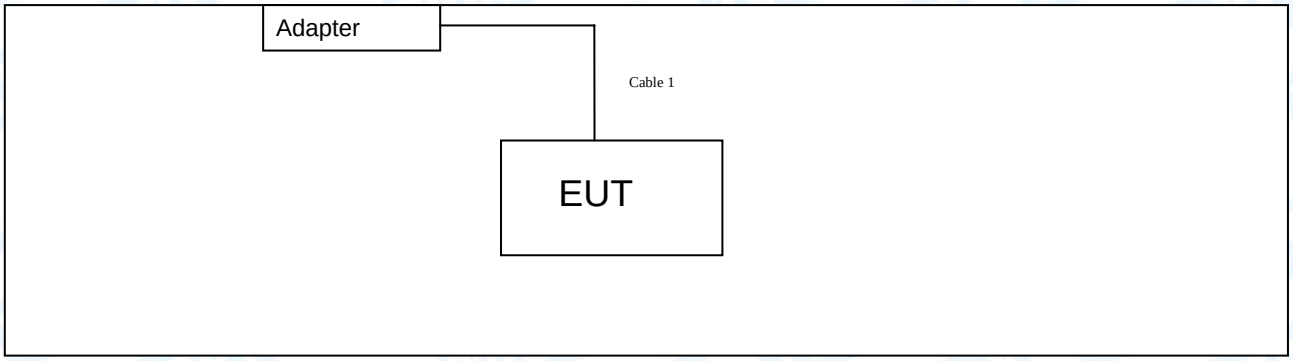
(3) Antenna information provided by the applicant.

(4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note:CH 01~CH 11 for 802.11b/g/n(HT20) **CH 03~CH 09 for 802.11n(HT40)**					

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been tested as an independent unit.

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	**Description**
Mode 1	AC Charging with TX B Mode

For Radiated Test	
Final Test Mode	**Description**
Mode 3	TX Mode B Mode Channel 01/06/11
Mode 4	TX Mode G Mode Channel 01/06/11
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Midle, lowest available channels, and the worst case data rate as follows:

802.11b Mode: CCK (1 Mbps)

802.11g Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0 (6.5 Mbps)

802.11n (HT40) Mode: MCS 0 (13 Mbps)

(2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.

(3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	Realtek MP Test		
Channel	**CH 01**	**CH 06**	**CH 11**
IEEE 802.11b DSSS	50	50	50
IEEE 802.11g OFDM	48	48	48
IEEE 802.11n (HT20)	46	46	46
Channel	**CH 03**	**CH 06**	**CH 09**
IEEE 802.11n (HT40)	46	46	46

1.7 Measurement Uncertainty

The reported uncertainty of measurement y ± U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	 ±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
Note: "/" for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

3. Test Equipment

Conducted Emission Test					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Cal. Due Date**
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Radiation Emission Test					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Cal. Due Date**
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dBμV)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

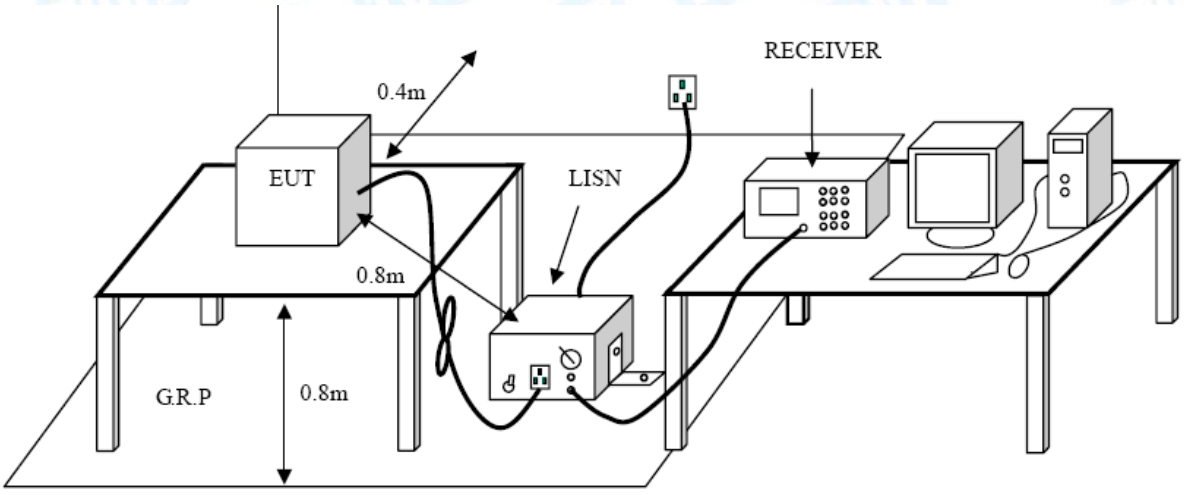
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

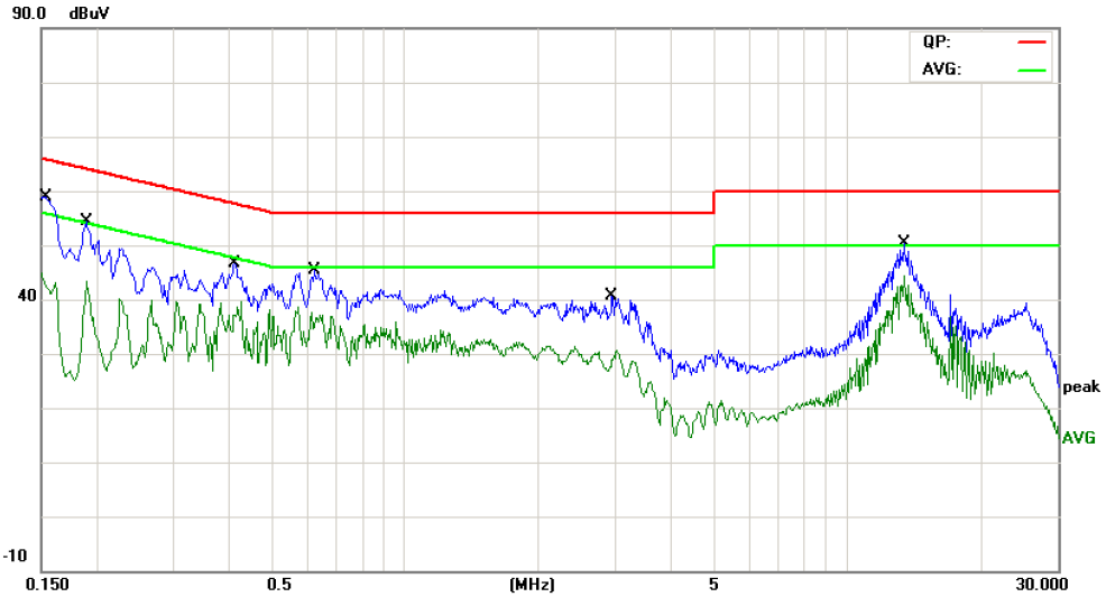
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Line		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		

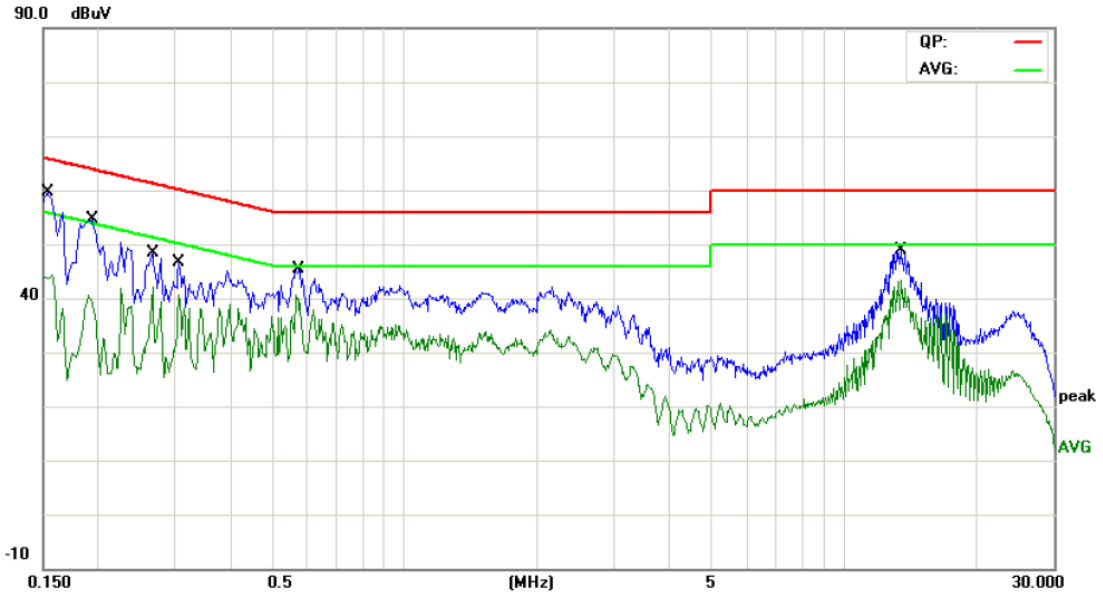


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	49.05	9.93	58.98	65.78	-6.80	QP
2		0.1539	32.48	9.93	42.41	55.78	-13.37	AVG
3		0.1900	44.34	10.00	54.34	64.03	-9.69	QP
4		0.1901	32.85	10.00	42.85	54.03	-11.18	AVG
5		0.4102	36.62	10.02	46.64	57.64	-11.00	QP
6		0.4102	27.19	10.02	37.21	47.64	-10.43	AVG
7		0.6260	35.20	10.08	45.28	56.00	-10.72	QP
8		0.6260	24.69	10.08	34.77	46.00	-11.23	AVG
9		2.9380	30.61	10.03	40.64	56.00	-15.36	QP
10		2.9380	18.87	10.03	28.90	46.00	-17.10	AVG
11		13.4219	40.09	10.23	50.32	60.00	-9.68	QP
12	*	13.4219	33.73	10.23	43.96	50.00	-6.04	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Neutral		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		

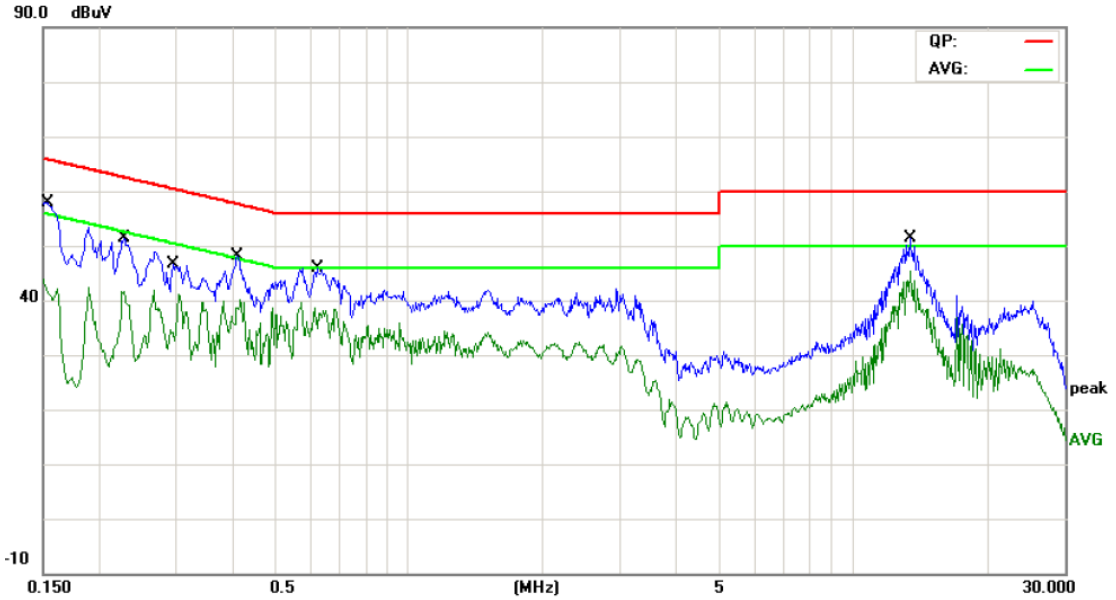


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1539	49.74	9.93	59.67	65.78	-6.11	QP
2		0.1539	33.78	9.93	43.71	55.78	-12.07	AVG
3		0.1940	44.54	10.01	54.55	63.86	-9.31	QP
4		0.1940	28.99	10.01	39.00	53.86	-14.86	AVG
5		0.2660	38.30	10.02	48.32	61.24	-12.92	QP
6		0.2660	28.95	10.02	38.97	51.24	-12.27	AVG
7		0.3059	36.64	10.02	46.66	60.08	-13.42	QP
8		0.3059	30.70	10.02	40.72	50.08	-9.36	AVG
9		0.5737	35.44	10.06	45.50	56.00	-10.50	QP
10		0.5737	27.87	10.06	37.93	46.00	-8.07	AVG
11		13.4219	38.63	10.23	48.86	60.00	-11.14	QP
12		13.4219	32.24	10.23	42.47	50.00	-7.53	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Line		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		

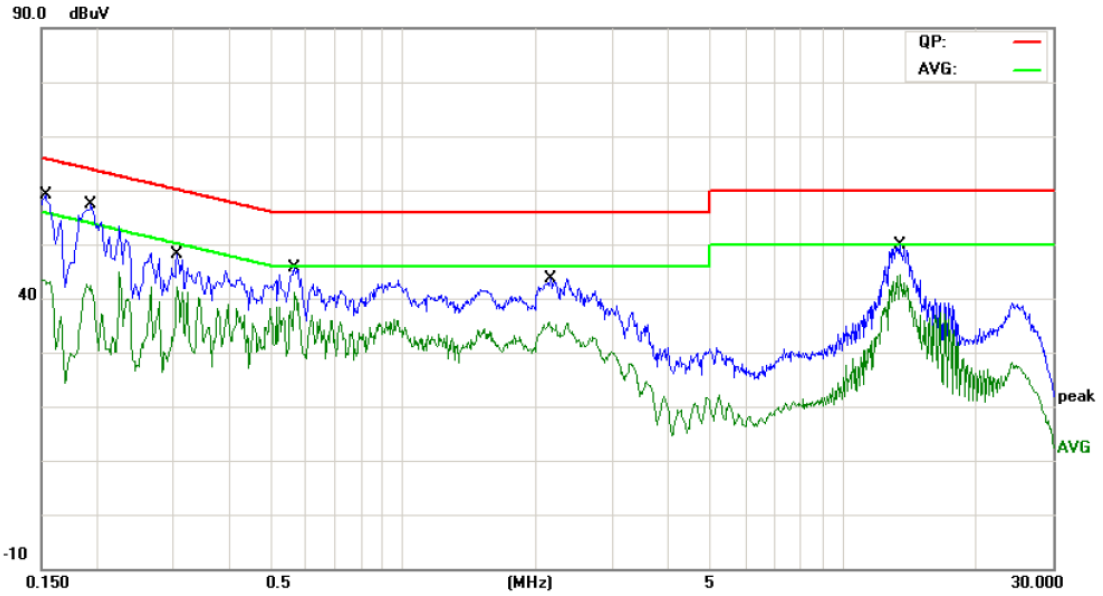


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	48.05	9.93	57.98	65.78	-7.80	QP
2		0.1539	31.48	9.93	41.41	55.78	-14.37	AVG
3		0.2278	41.44	10.02	51.46	62.53	-11.07	QP
4		0.2278	31.72	10.02	41.74	52.53	-10.79	AVG
5		0.2938	36.58	10.02	46.60	60.41	-13.81	QP
6		0.2938	24.03	10.02	34.05	50.41	-16.36	AVG
7		0.4102	38.12	10.02	48.14	57.64	-9.50	QP
8		0.4102	28.69	10.02	38.71	47.64	-8.93	AVG
9		0.6219	35.87	10.08	45.95	56.00	-10.05	QP
10		0.6219	24.69	10.08	34.77	46.00	-11.23	AVG
11		13.4219	41.09	10.23	51.32	60.00	-8.68	QP
12	*	13.4219	34.73	10.23	44.96	50.00	-5.04	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 240V/60 Hz		
Terminal:	Neutral		
Test Mode:	AC Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	49.24	9.93	59.17	65.78	-6.61	QP
2		0.1539	32.78	9.93	42.71	55.78	-13.07	AVG
3		0.1943	47.30	10.01	57.31	63.85	-6.54	QP
4		0.1943	32.49	10.01	42.50	53.85	-11.35	AVG
5		0.3059	38.14	10.02	48.16	60.08	-11.92	QP
6		0.3059	32.20	10.02	42.22	50.08	-7.86	AVG
7		0.5656	35.65	10.05	45.70	56.00	-10.30	QP
8	*	0.5656	31.03	10.05	41.08	46.00	-4.92	AVG
9		2.1619	33.53	10.05	43.58	56.00	-12.42	QP
10		2.1619	24.59	10.05	34.64	46.00	-11.36	AVG
11		13.4219	39.63	10.23	49.86	60.00	-10.14	QP
12		13.4219	33.24	10.23	43.47	50.00	-6.53	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

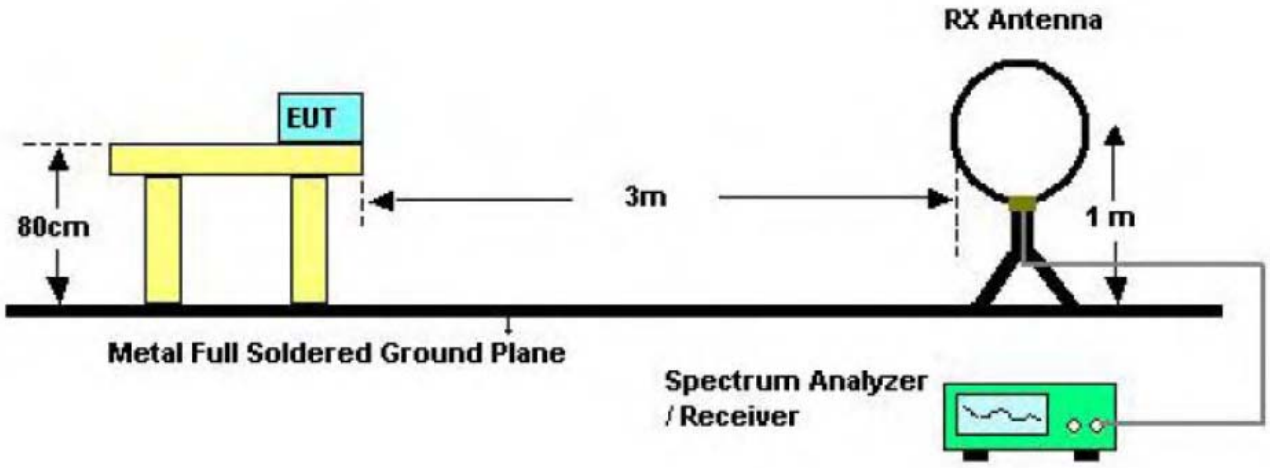
Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

Note:

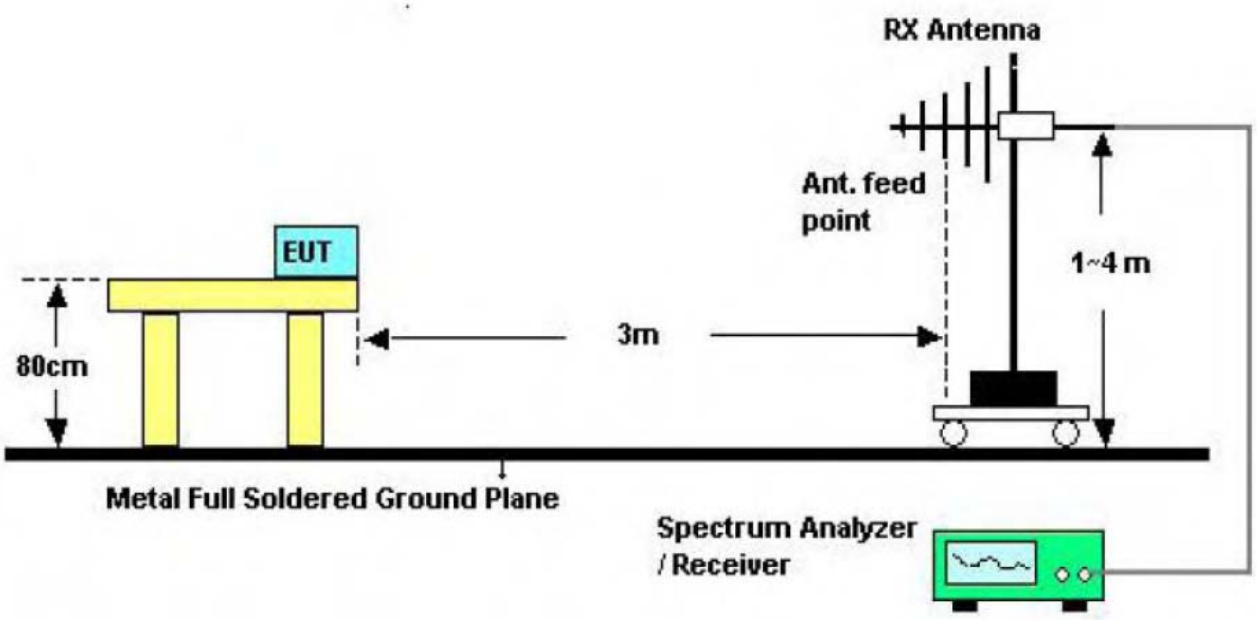
(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

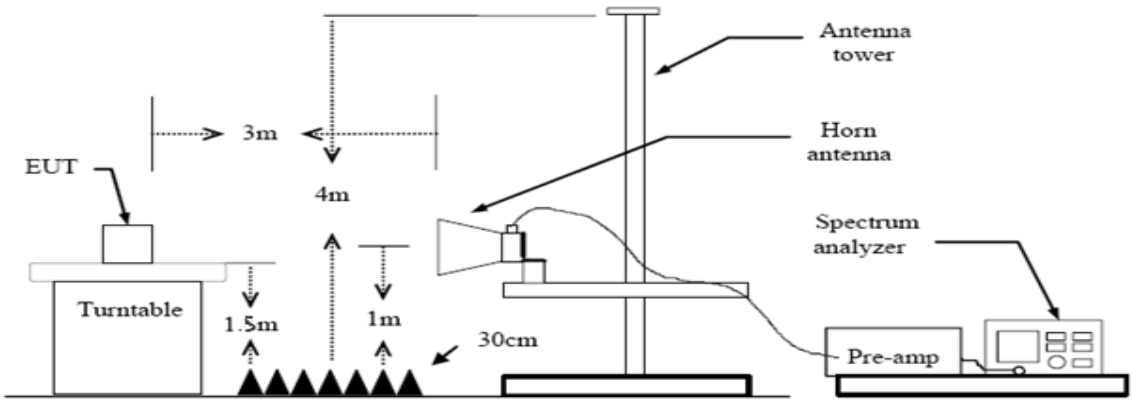
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.

(2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

(4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

(5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

(6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.

(7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

(8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

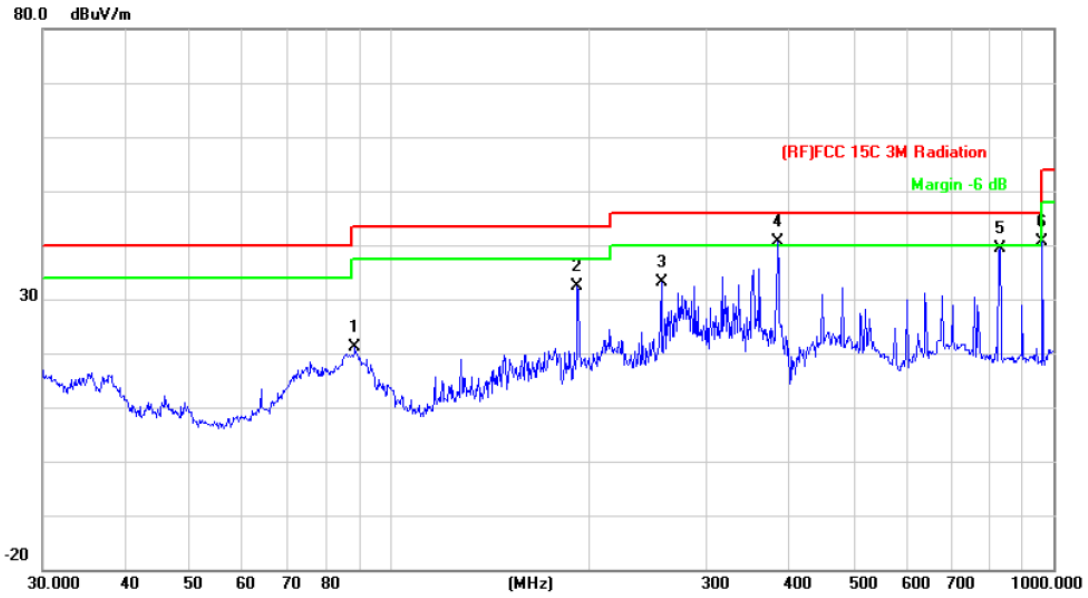
The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

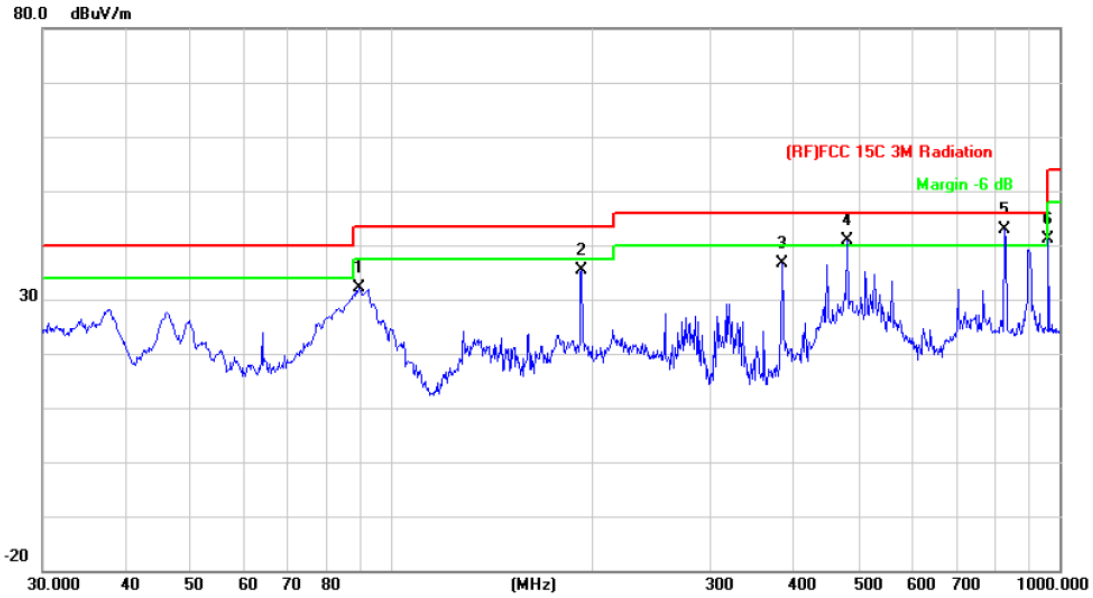


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		88.6524	43.88	-22.77	21.11	43.50	-22.39	peak
2		191.7450	53.29	-20.81	32.48	43.50	-11.02	peak
3		256.5210	51.17	-17.98	33.19	46.00	-12.81	peak
4	*	383.9318	54.49	-13.87	40.62	46.00	-5.38	peak
5		830.4002	45.71	-6.38	39.33	46.00	-6.67	peak
6		962.1621	45.54	-4.84	40.70	54.00	-13.30	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

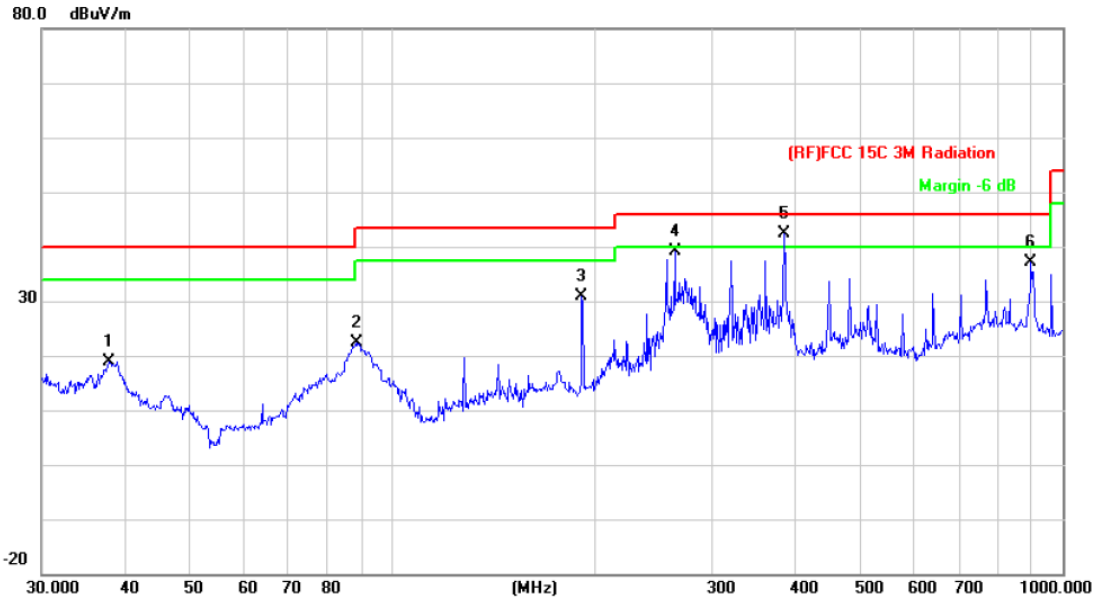


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		89.2762	54.91	-22.74	32.17	43.50	-11.33	peak
2		192.4183	56.08	-20.78	35.30	43.50	-8.20	peak
3		383.9318	50.53	-13.87	36.66	46.00	-9.34	peak
4	!	480.5276	52.56	-11.62	40.94	46.00	-5.06	peak
5	*	827.4932	49.31	-6.32	42.99	46.00	-3.01	peak
6		962.1621	45.95	-4.84	41.11	54.00	-12.89	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

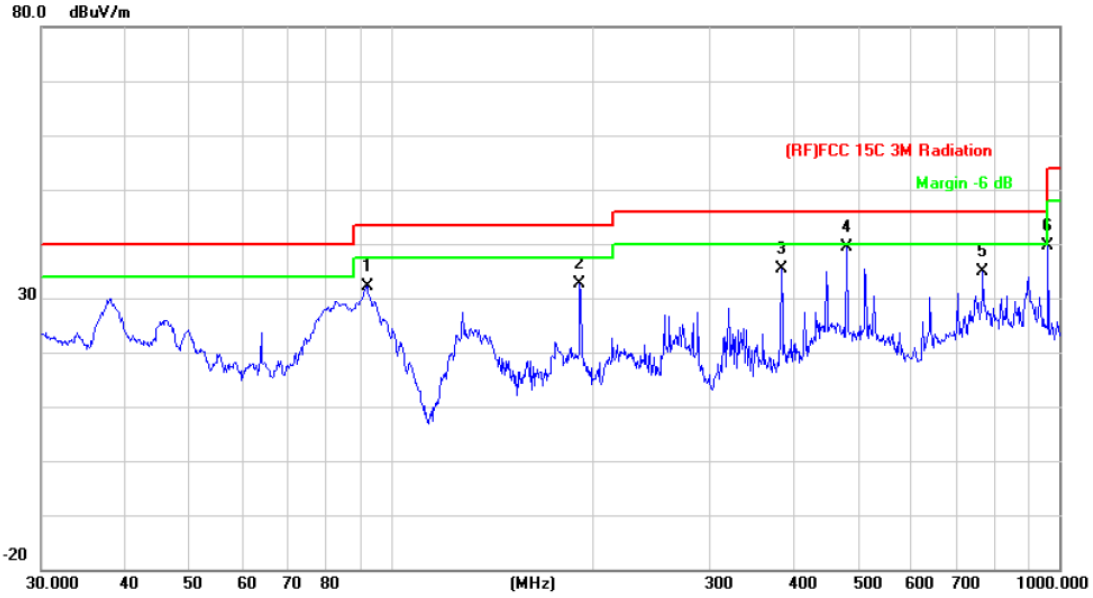


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		37.8121	37.69	-18.80	18.89	40.00	-21.11	peak
2		88.3421	45.14	-22.79	22.35	43.50	-21.15	peak
3		191.7450	51.79	-20.81	30.98	43.50	-12.52	peak
4		263.8190	56.94	-17.82	39.12	46.00	-6.88	peak
5	*	383.9318	56.32	-13.87	42.45	46.00	-3.55	peak
6		896.9963	42.38	-5.17	37.21	46.00	-8.79	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

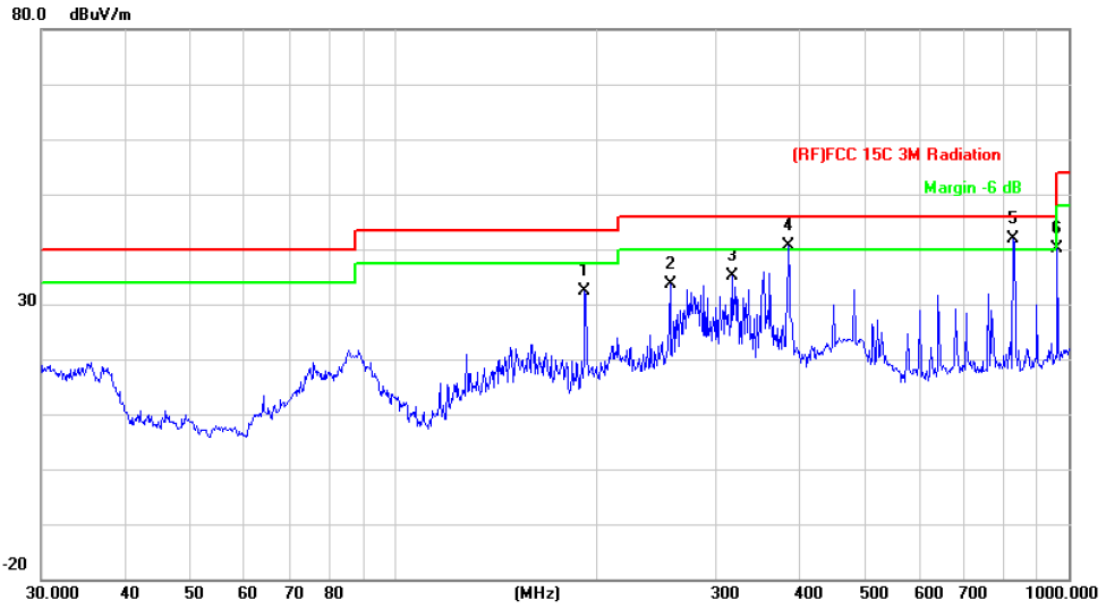


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		92.1388	54.60	-22.50	32.10	43.50	-11.40	peak
2		191.7450	53.32	-20.81	32.51	43.50	-10.99	peak
3		383.9318	49.20	-13.87	35.33	46.00	-10.67	peak
4	*	480.5276	51.03	-11.62	39.41	46.00	-6.59	peak
5		768.7481	41.80	-6.82	34.98	46.00	-11.02	peak
6		962.1621	44.37	-4.84	39.53	54.00	-14.47	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

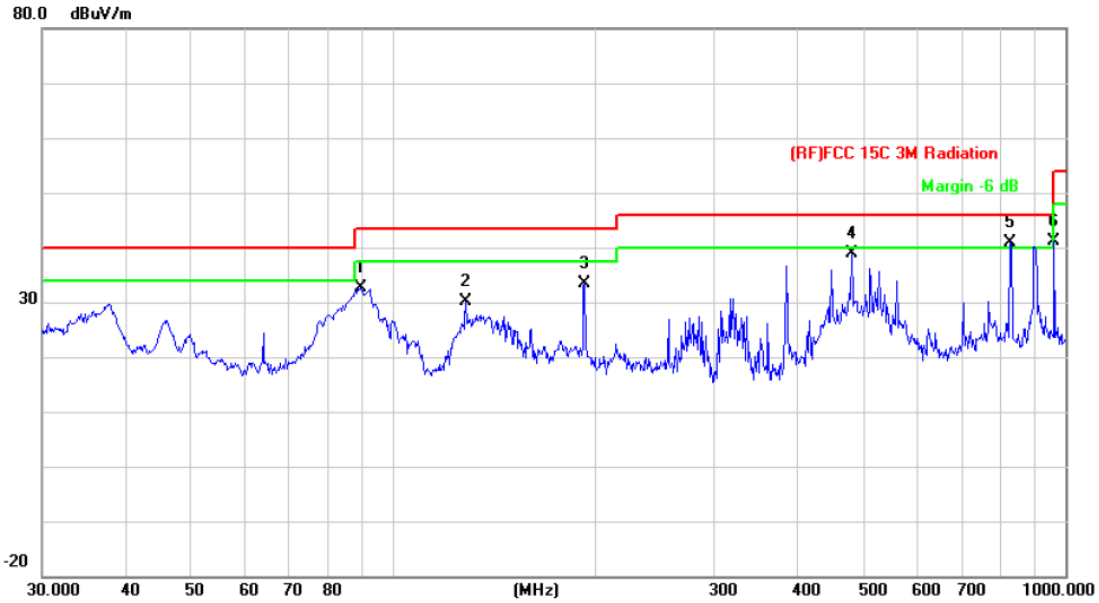


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		191.7450	53.29	-20.81	32.48	43.50	-11.02	peak
2		256.5210	51.67	-17.98	33.69	46.00	-12.31	peak
3		316.5889	51.59	-16.45	35.14	46.00	-10.86	peak
4	!	383.9318	54.49	-13.87	40.62	46.00	-5.38	peak
5	*	827.4932	48.11	-6.32	41.79	46.00	-4.21	peak
6		962.1621	45.04	-4.84	40.20	54.00	-13.80	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

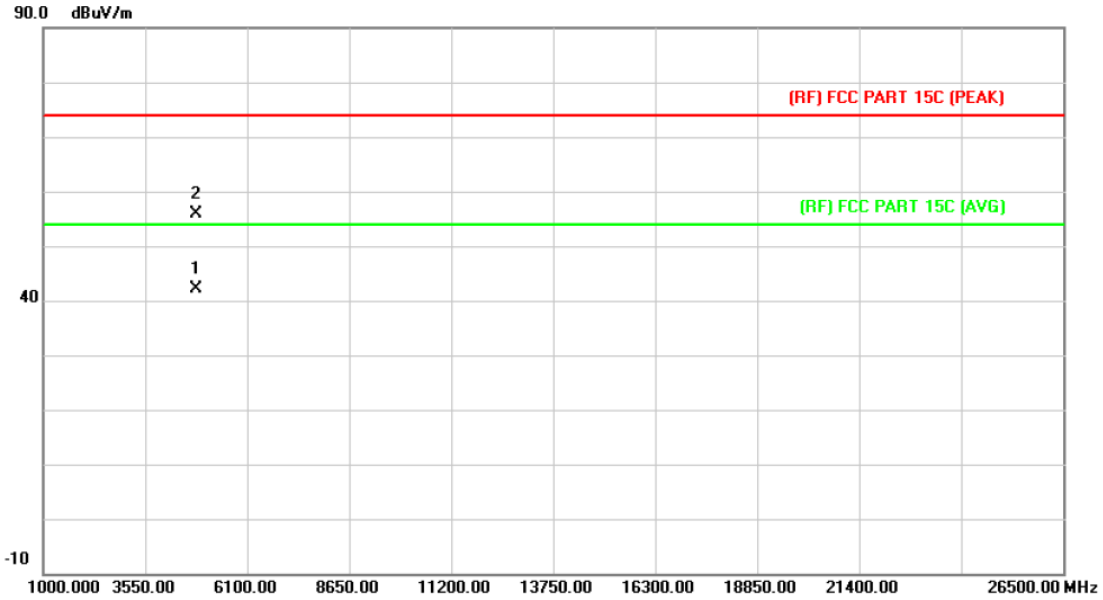


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		89.2762	55.41	-22.74	32.67	43.50	-10.83	peak
2		128.1128	52.42	-22.24	30.18	43.50	-13.32	peak
3		192.4183	54.08	-20.78	33.30	43.50	-10.20	peak
4		480.5276	50.56	-11.62	38.94	46.00	-7.06	peak
5	*	827.4932	47.31	-6.32	40.99	46.00	-5.01	peak
6		962.1621	45.95	-4.84	41.11	54.00	-12.89	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

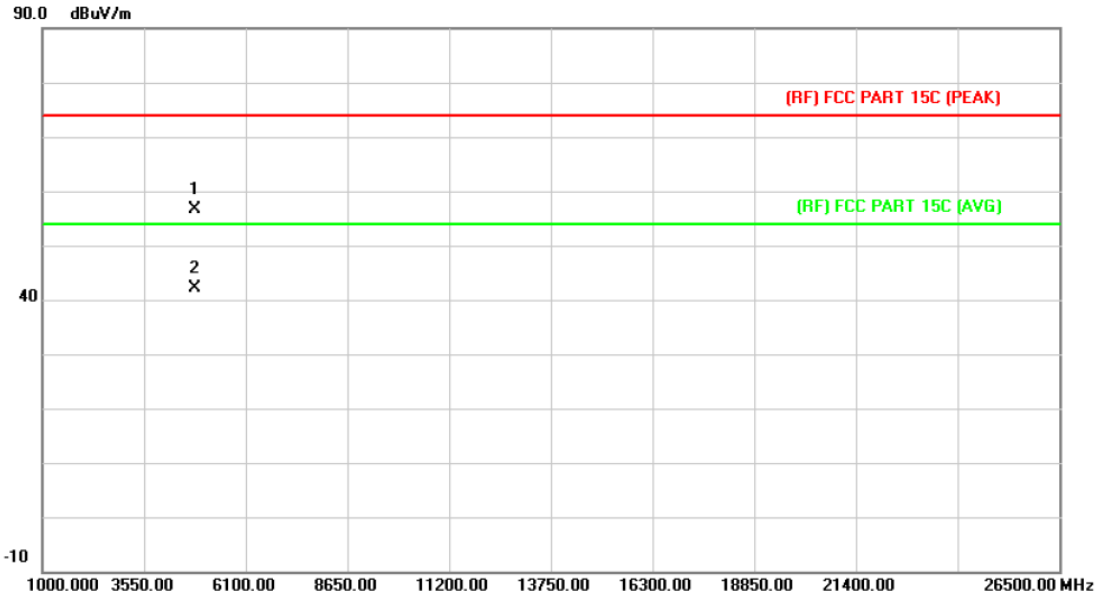
EUT:	32"IDISPLAY	**Model:**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4824.439	28.58	13.56	42.14	54.00	-11.86	AVG
2		4824.448	42.43	13.56	55.99	74.00	-18.01	peak

Emission Level= Read Level+ Correct Factor

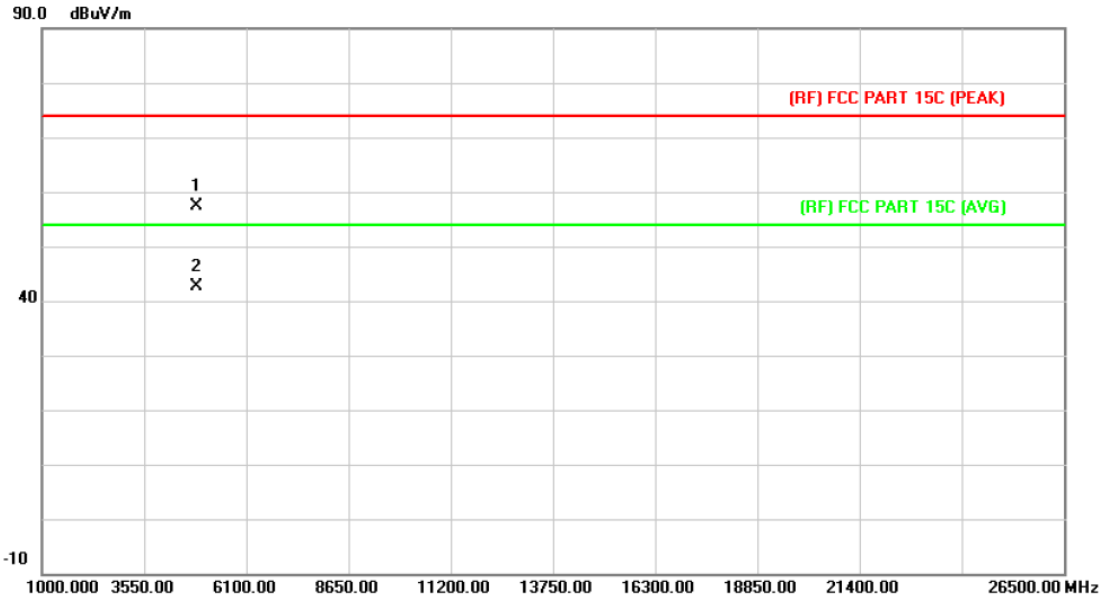
EUT:	32"IDISPLAY	**Model:**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.166	43.19	13.56	56.75	74.00	-17.25	peak
2	*	4824.500	28.58	13.56	42.14	54.00	-11.86	AVG

Emission Level= Read Level+ Correct Factor

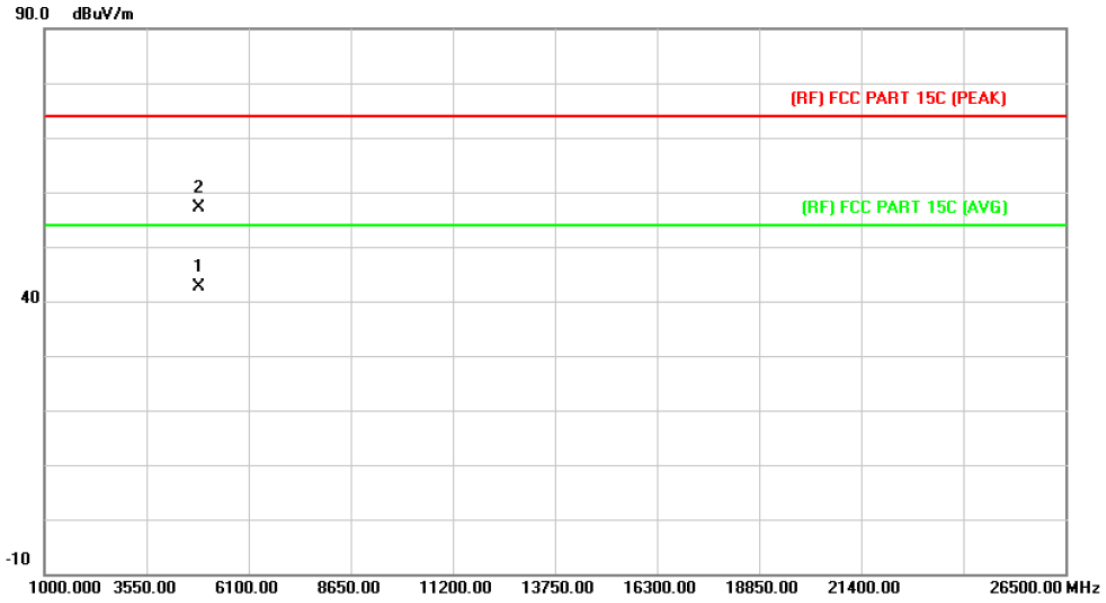
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.812	43.58	13.86	57.44	74.00	-16.56	peak
2	*	4874.480	28.86	13.86	42.72	54.00	-11.28	AVG

Emission Level= Read Level+ Correct Factor

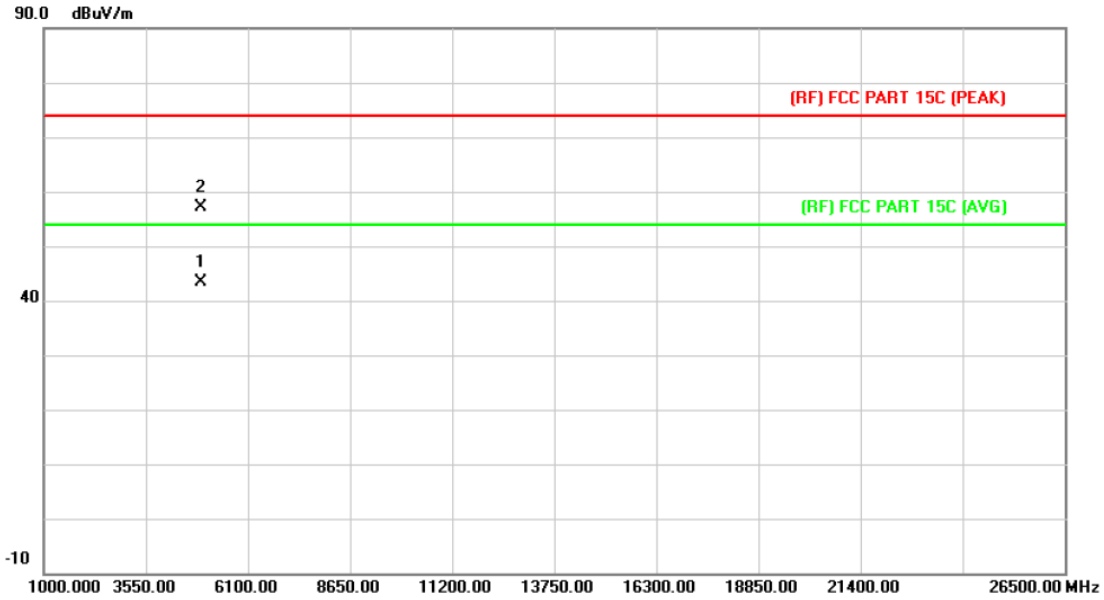
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.194	28.86	13.86	42.72	54.00	-11.28	AVG
2		4874.274	43.32	13.86	57.18	74.00	-16.82	peak

Emission Level= Read Level+ Correct Factor

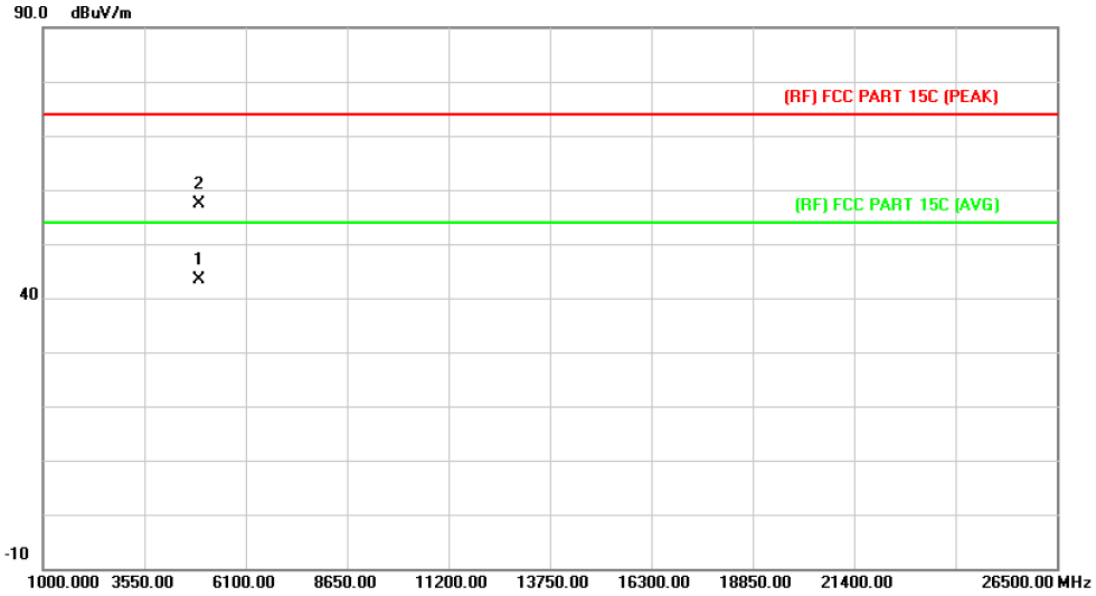
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.520	29.18	14.15	43.33	54.00	-10.67	AVG
2		4924.283	42.90	14.15	57.05	74.00	-16.95	peak

Emission Level= Read Level+ Correct Factor

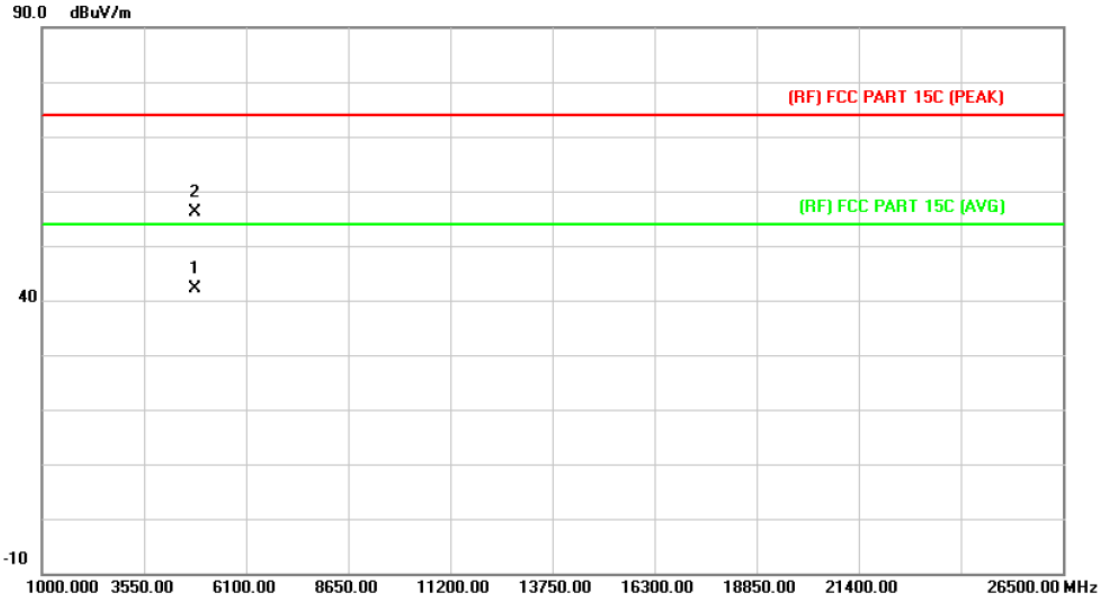
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.806	29.18	14.15	43.33	54.00	-10.67	AVG
2		4924.226	43.18	14.15	57.33	74.00	-16.67	peak

Emission Level= Read Level+ Correct Factor

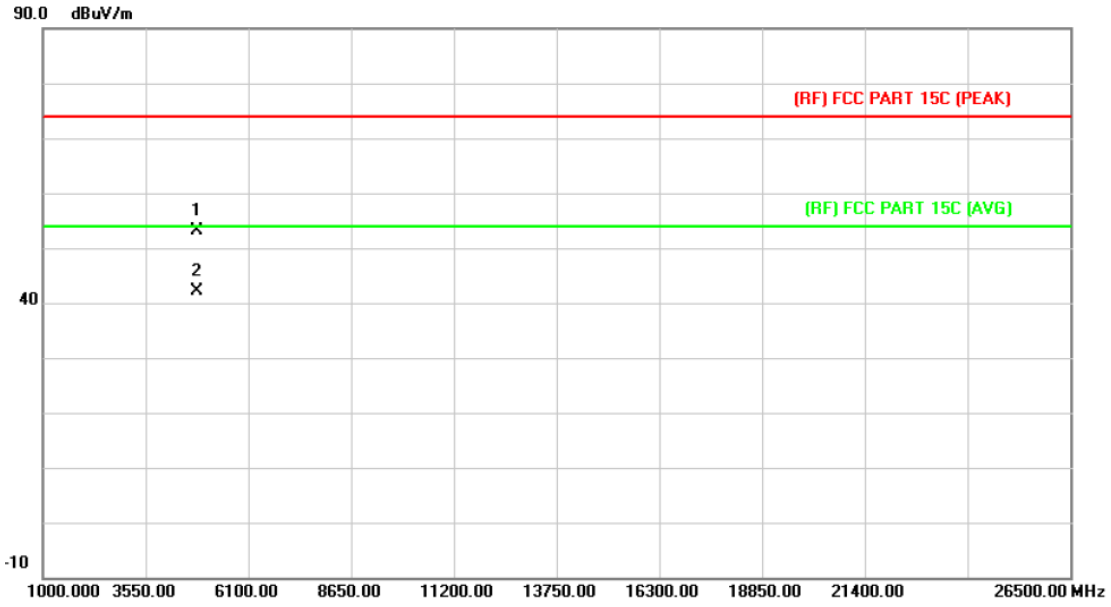
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.990	28.60	13.56	42.16	54.00	-11.84	AVG
2		4824.386	42.46	13.56	56.02	74.00	-17.98	peak

Emission Level= Read Level+ Correct Factor

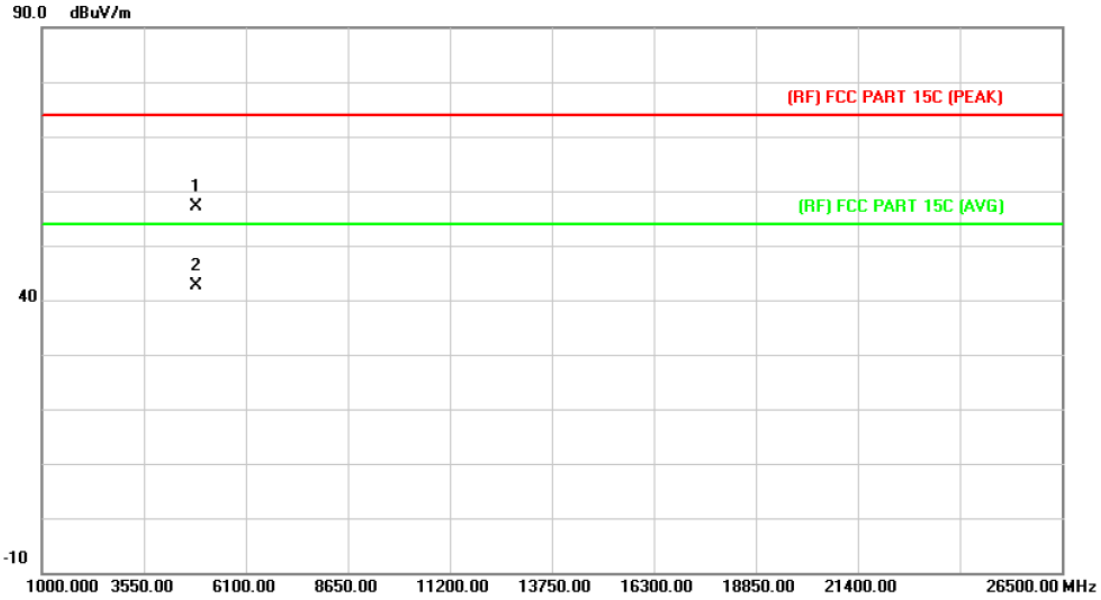
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.888	39.60	13.56	53.16	74.00	-20.84	peak
2	*	4823.888	28.60	13.56	42.16	54.00	-11.84	AVG

Emission Level= Read Level+ Correct Factor

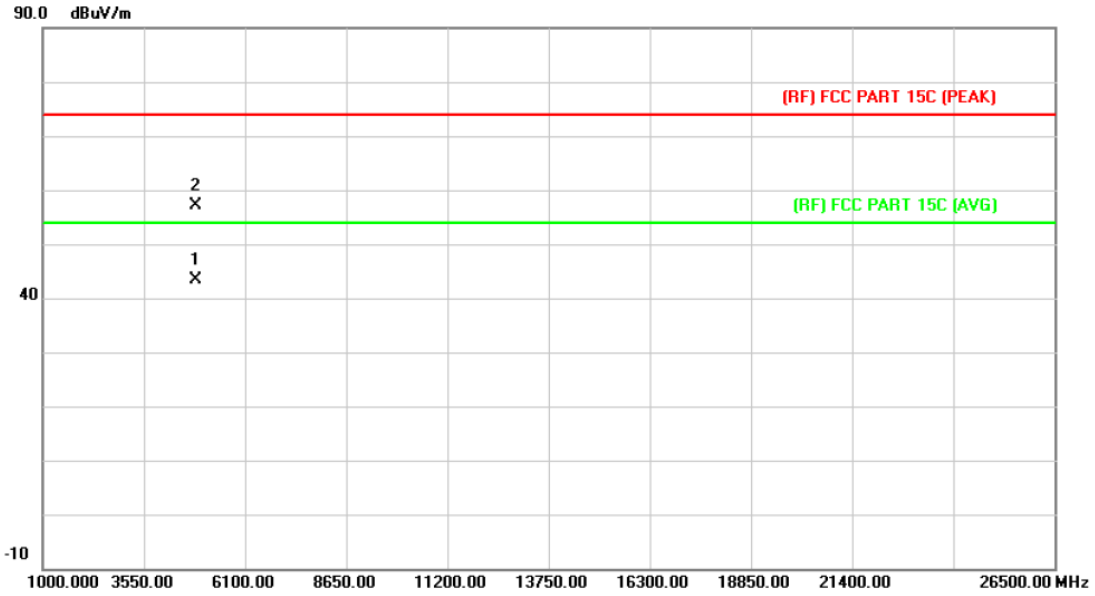
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.727	43.35	13.86	57.21	74.00	-16.79	peak
2	*	4874.500	28.87	13.86	42.73	54.00	-11.27	AVG

Emission Level= Read Level+ Correct Factor

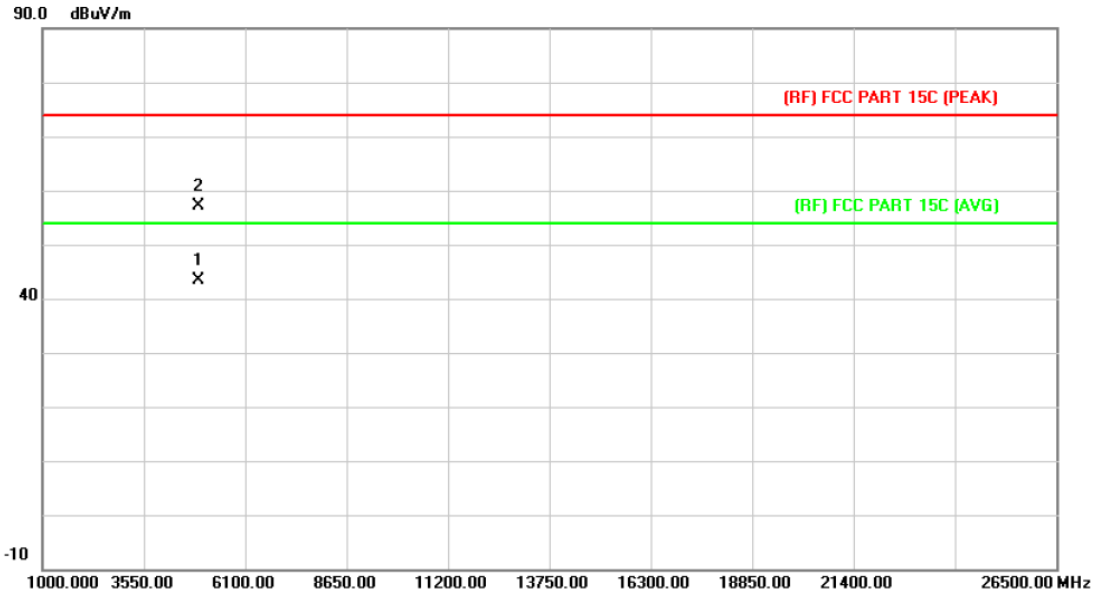
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.031	29.48	13.86	43.34	54.00	-10.66	AVG
2		4874.284	43.26	13.86	57.12	74.00	-16.88	peak

Emission Level= Read Level+ Correct Factor

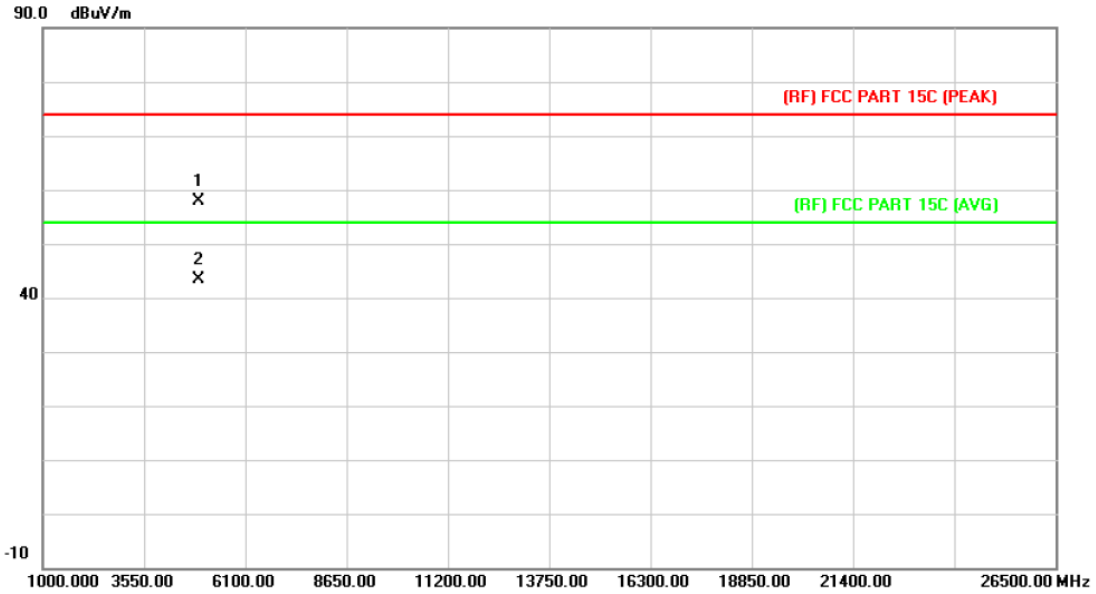
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.500	29.18	14.15	43.33	54.00	-10.67	AVG
2		4924.205	42.91	14.15	57.06	74.00	-16.94	peak

Emission Level= Read Level+ Correct Factor

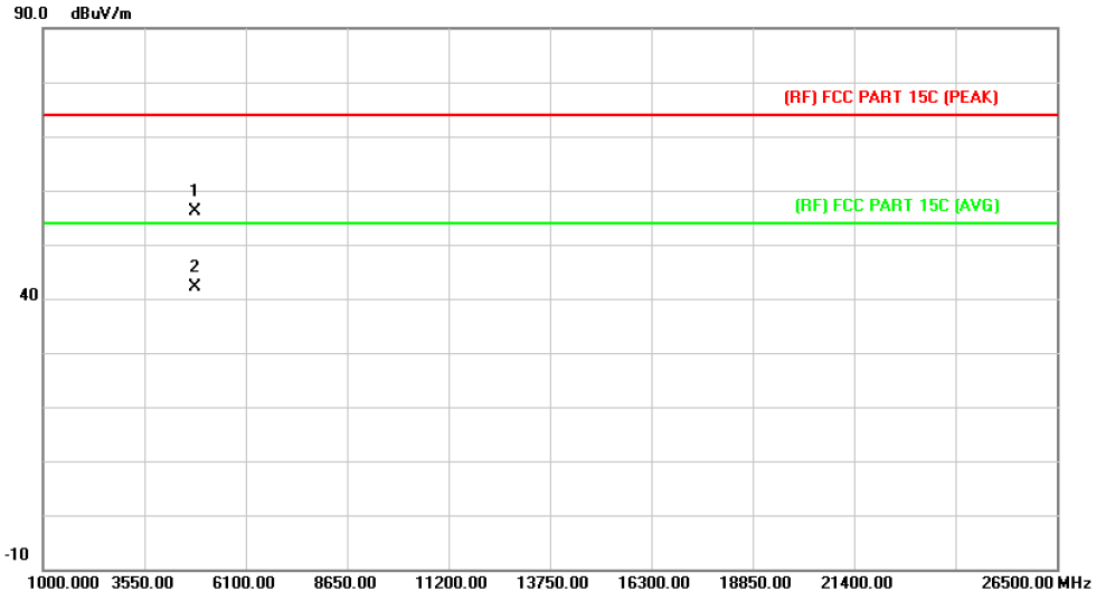
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.070	43.61	14.15	57.76	74.00	-16.24	peak
2	*	4924.275	29.18	14.15	43.33	54.00	-10.67	AVG

Emission Level= Read Level+ Correct Factor

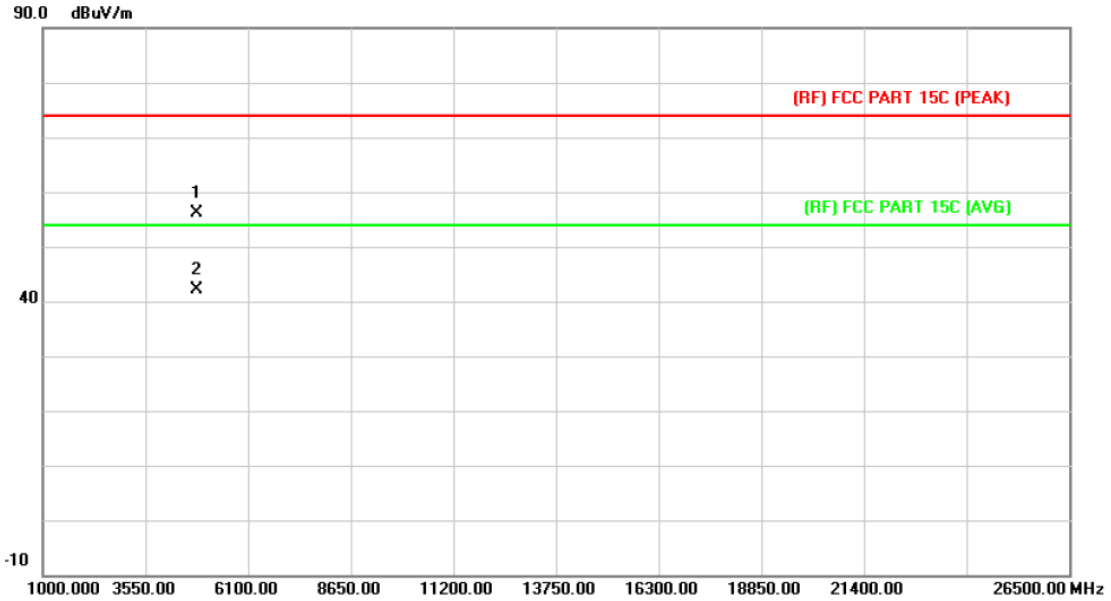
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.800	42.66	13.56	56.22	74.00	-17.78	peak
2	*	4824.214	28.59	13.56	42.15	54.00	-11.85	AVG

Emission Level= Read Level+ Correct Factor

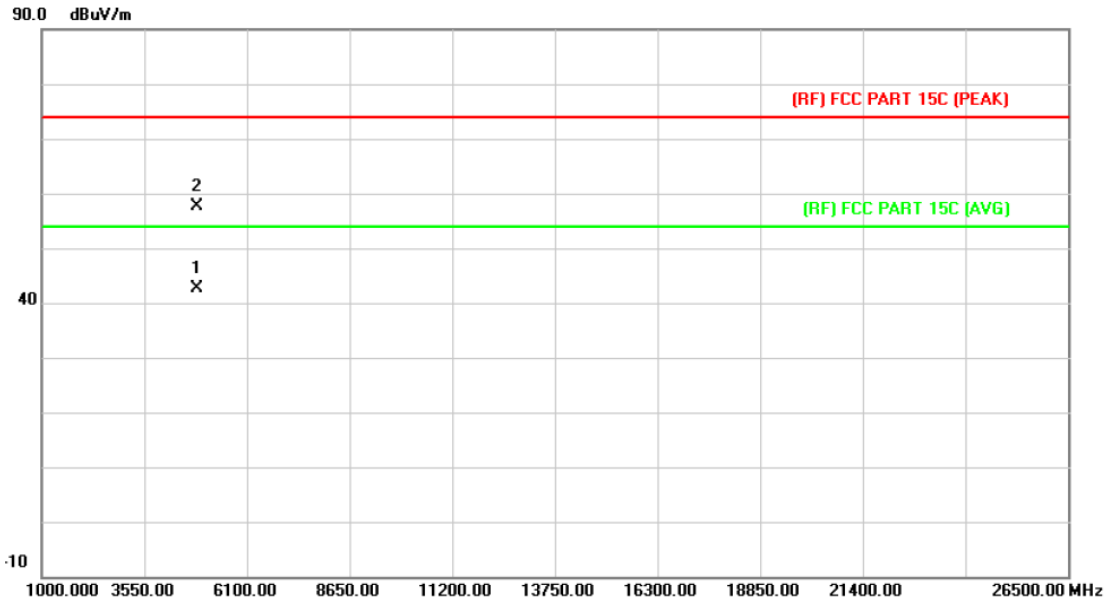
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.884	42.57	13.56	56.13	74.00	-17.87	peak
2	*	4824.051	28.61	13.56	42.17	54.00	-11.83	AVG

Emission Level= Read Level+ Correct Factor

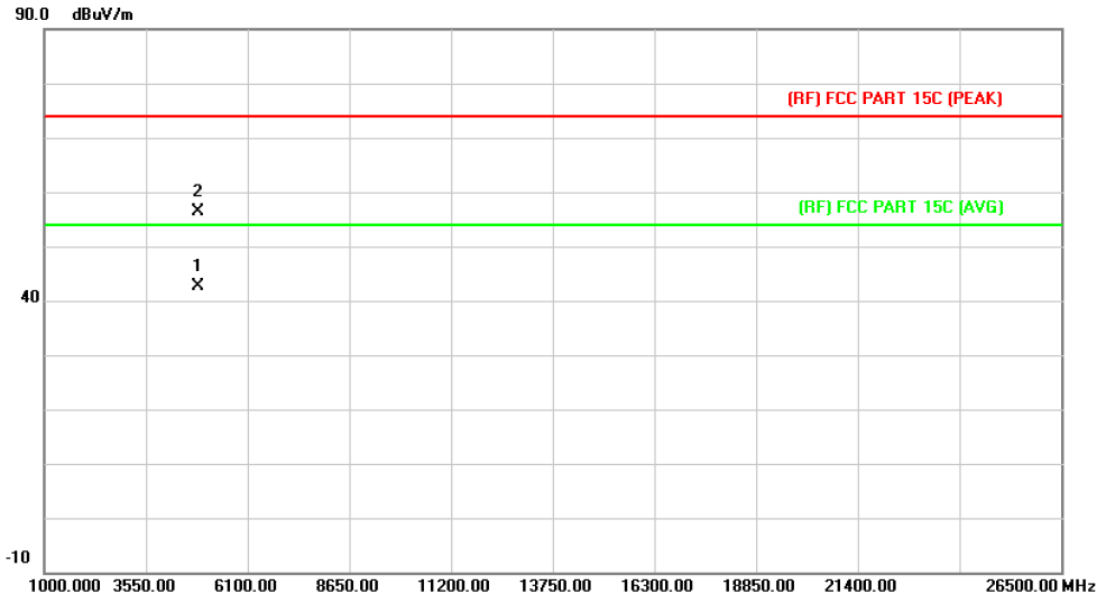
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.316	28.86	13.86	42.72	54.00	-11.28	AVG
2		4874.478	43.83	13.86	57.69	74.00	-16.31	peak

Emission Level= Read Level+ Correct Factor

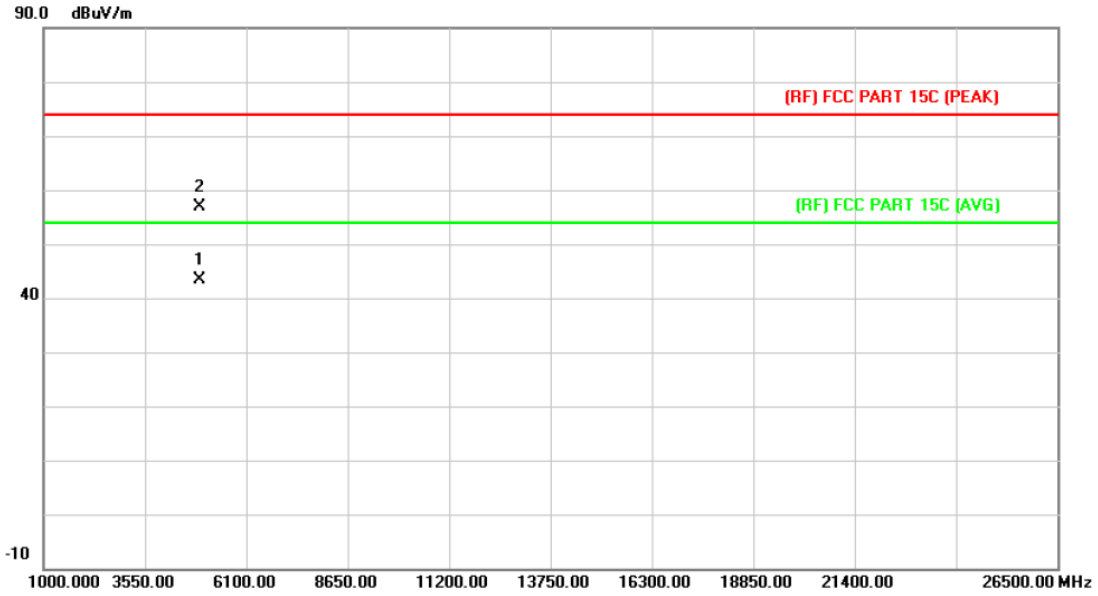
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.112	28.87	13.86	42.73	54.00	-11.27	AVG
2		4874.209	42.41	13.86	56.27	74.00	-17.73	peak

Emission Level= Read Level+ Correct Factor

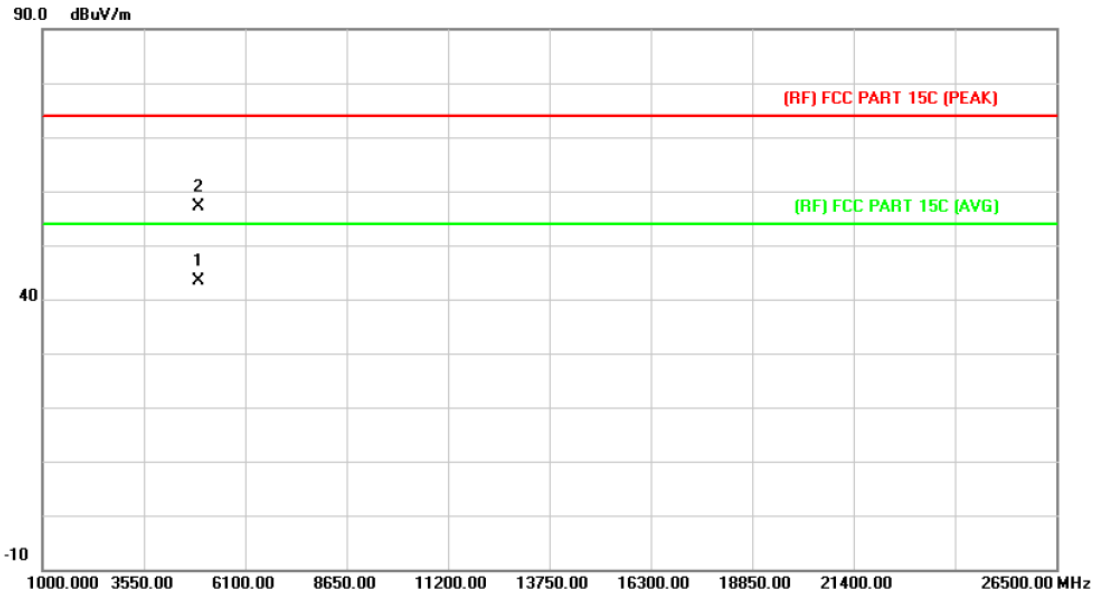
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.765	29.18	14.15	43.33	54.00	-10.67	AVG
2		4923.907	42.69	14.15	56.84	74.00	-17.16	peak

Emission Level= Read Level+ Correct Factor

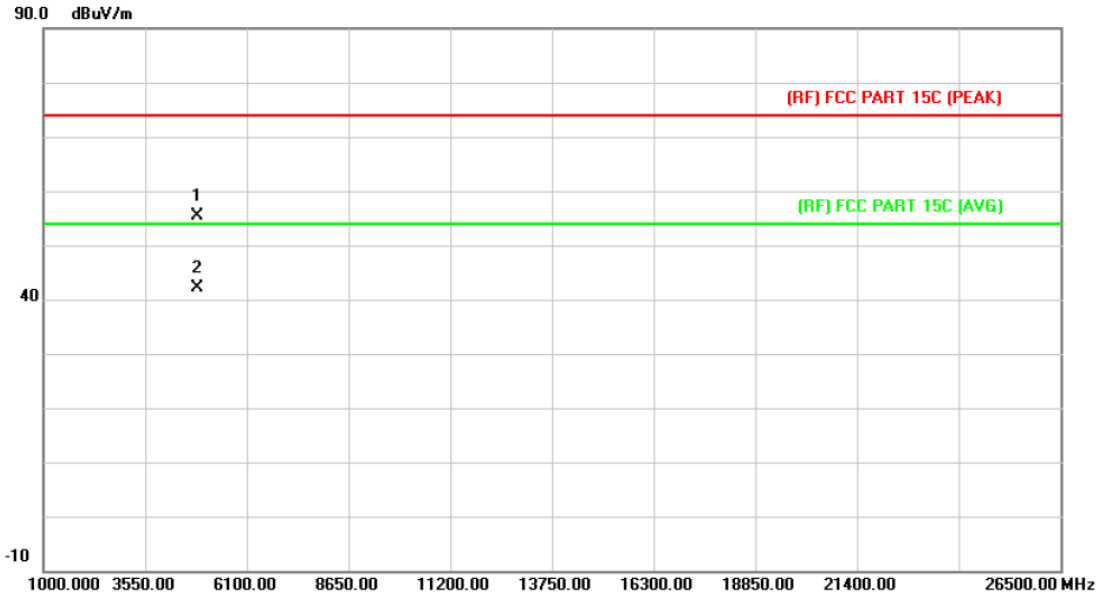
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4924.214	29.18	14.15	43.33	54.00	-10.67	AVG
2		4924.459	43.08	14.15	57.23	74.00	-16.77	peak

Emission Level= Read Level+ Correct Factor

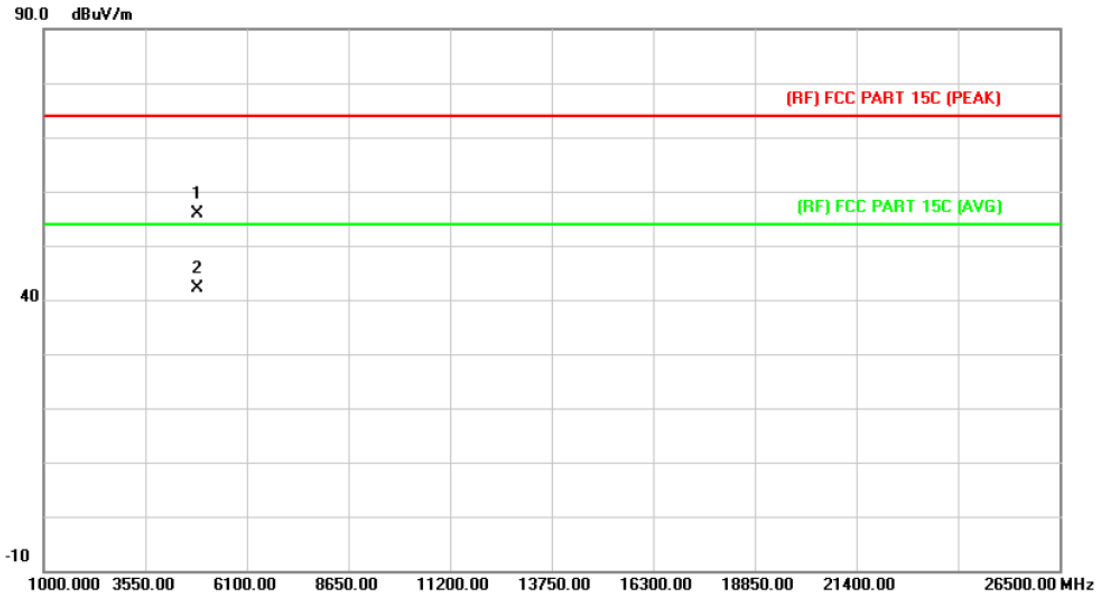
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.746	41.64	13.68	55.32	74.00	-18.68	peak
2	*	4844.480	28.45	13.68	42.13	54.00	-11.87	AVG

Emission Level= Read Level+ Correct Factor

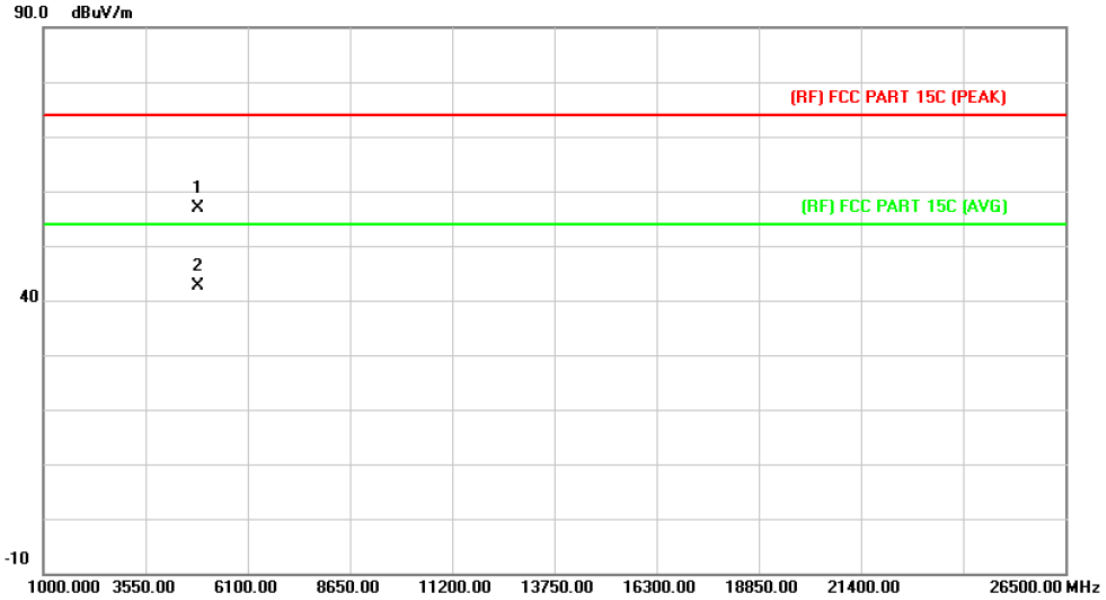
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.531	42.09	13.68	55.77	74.00	-18.23	peak
2	*	4843.963	28.48	13.68	42.16	54.00	-11.84	AVG

Emission Level= Read Level+ Correct Factor

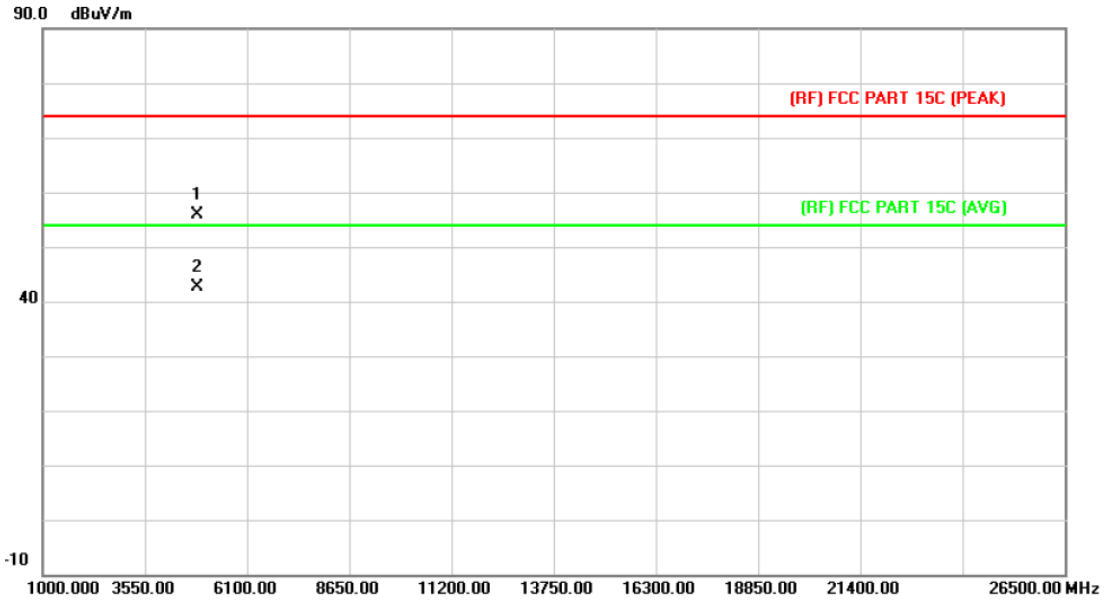
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.897	42.97	13.86	56.83	74.00	-17.17	peak
2	*	4874.174	28.87	13.86	42.73	54.00	-11.27	AVG

Emission Level= Read Level+ Correct Factor

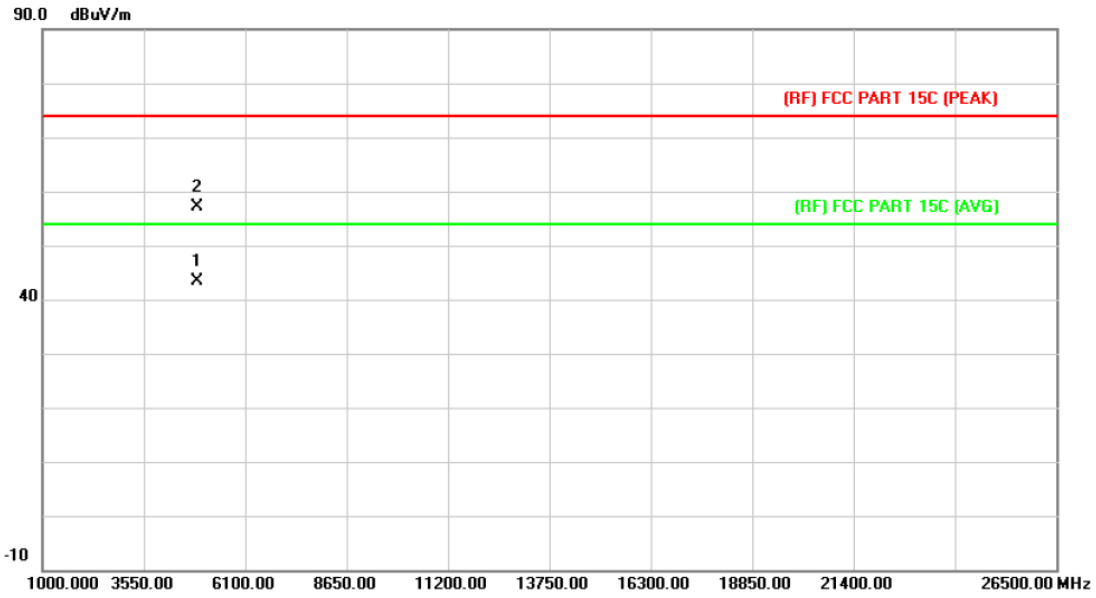
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.638	42.09	13.86	55.95	74.00	-18.05	peak
2	*	4874.092	28.87	13.86	42.73	54.00	-11.27	AVG

Emission Level= Read Level+ Correct Factor

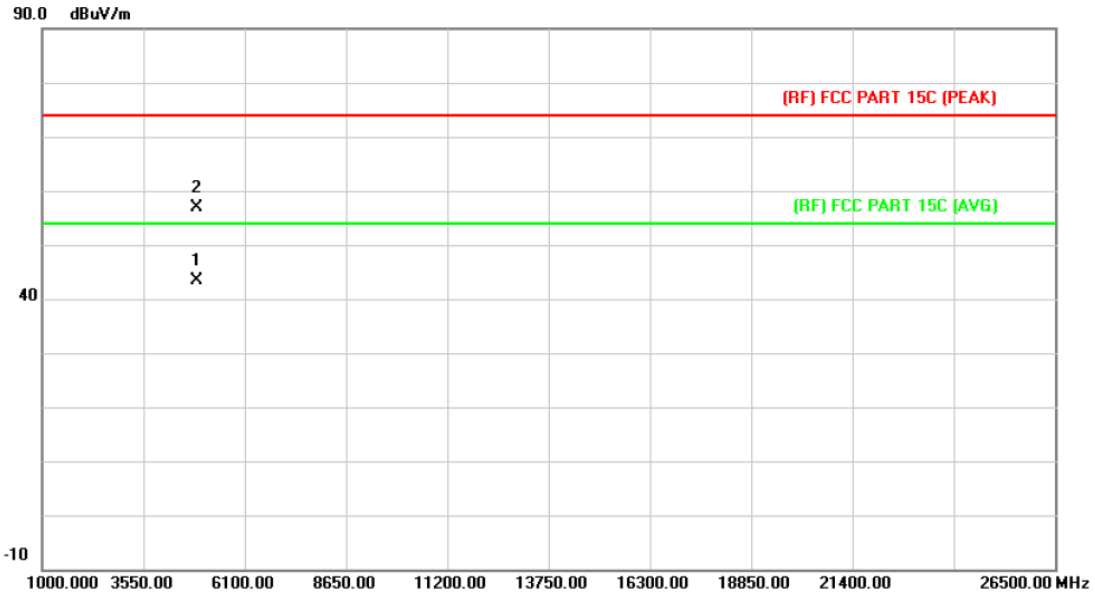
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.602	29.31	14.03	43.34	54.00	-10.66	AVG
2		4904.241	43.16	14.03	57.19	74.00	-16.81	peak

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.768	29.29	14.03	43.32	54.00	-10.68	AVG
2		4904.095	42.96	14.03	56.99	74.00	-17.01	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

6.1 Test Standard and Limit

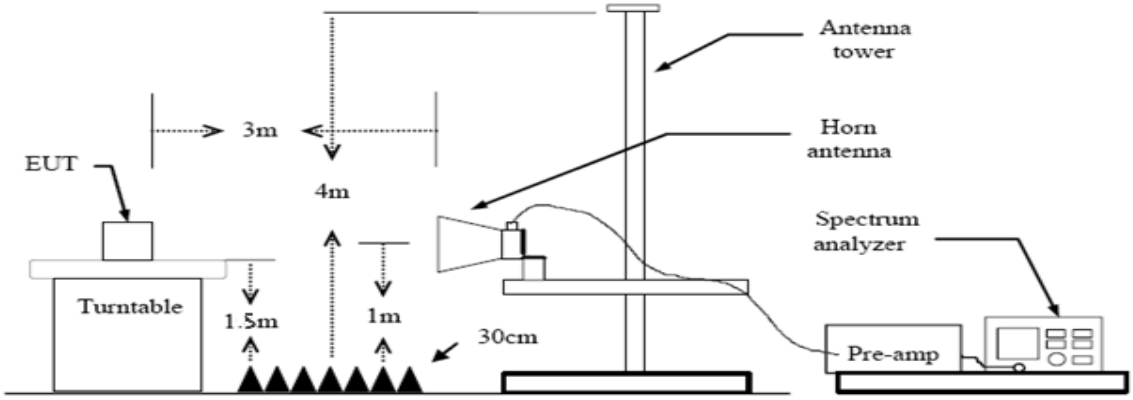
5.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

5.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

(1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.

(2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

(4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

(5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit

Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

(6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.

(7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

(8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

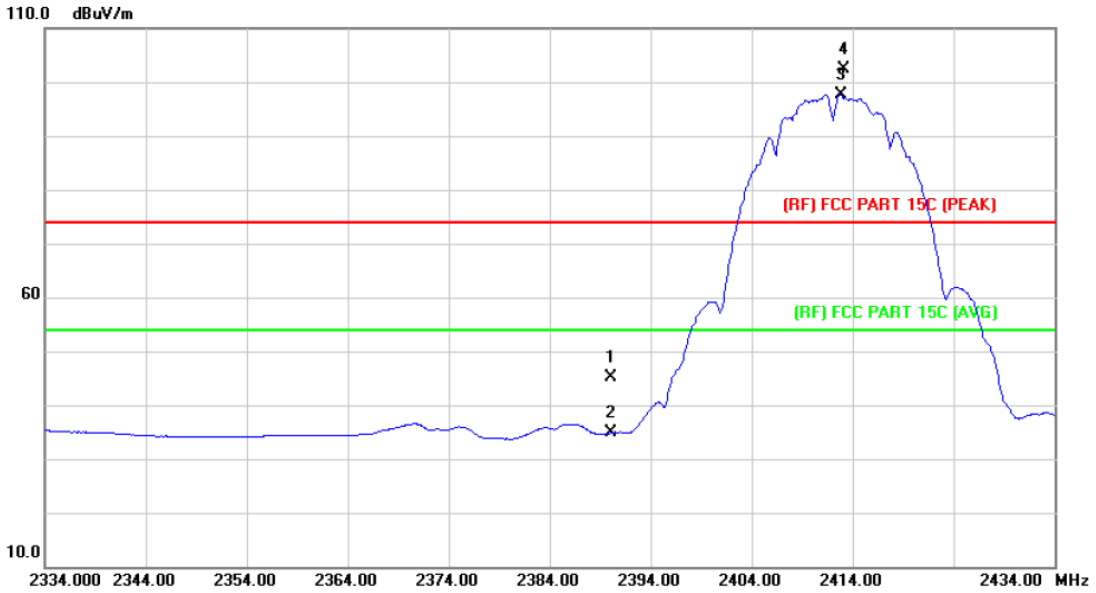
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

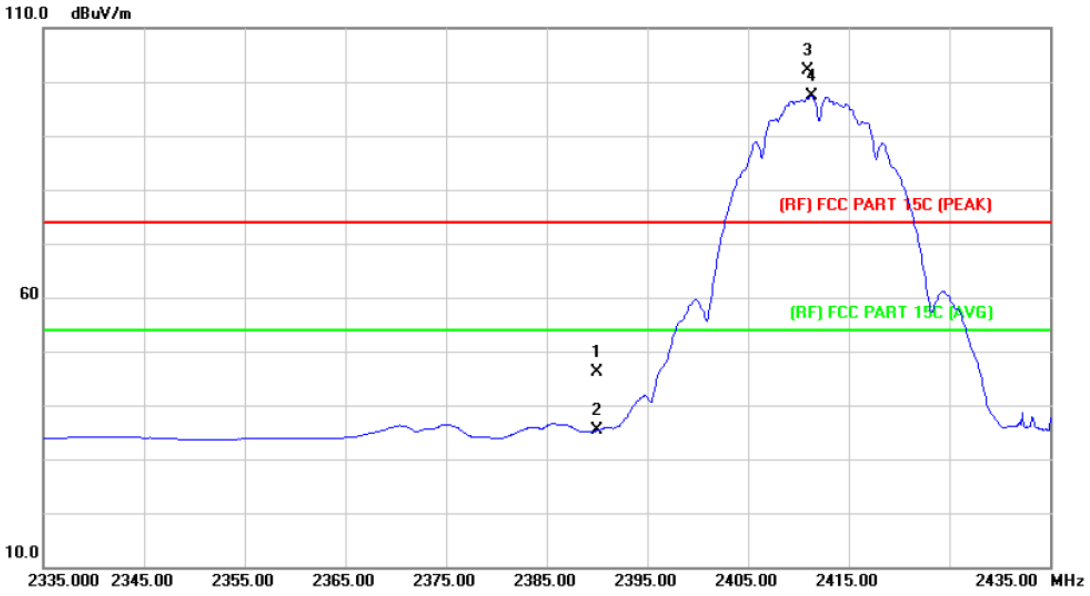
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.26	0.77	45.03	74.00	-28.97	peak
2		2390.000	34.04	0.77	34.81	54.00	-19.19	AVG
3	*	2412.800	96.80	0.86	97.66	Fundamental Frequency		AVG
4	X	2413.100	101.62	0.86	102.48	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

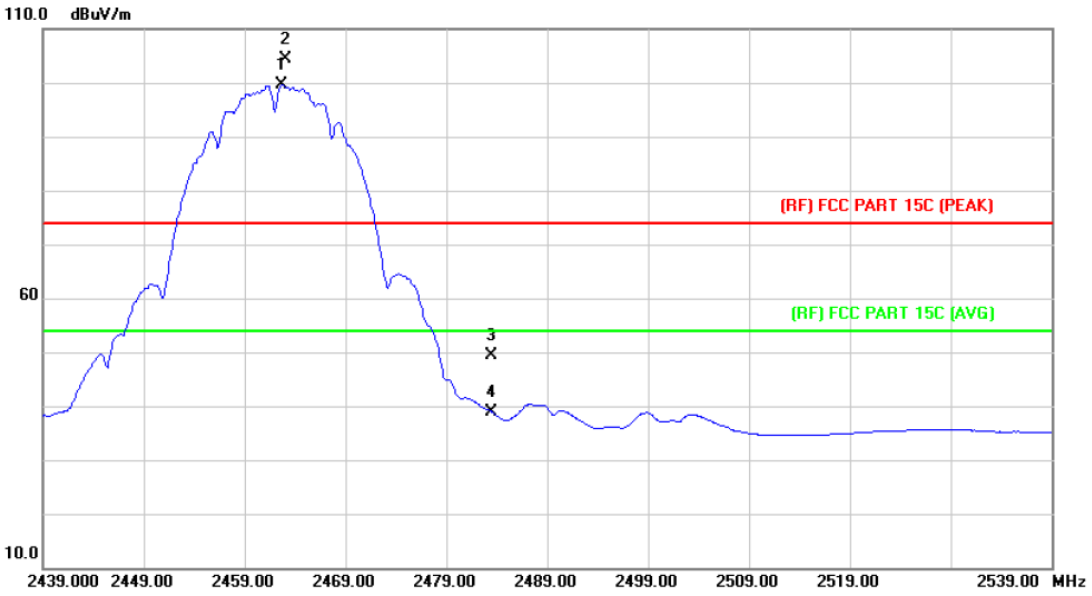
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.47	0.77	46.24	74.00	-27.76	peak
2		2390.000	34.52	0.77	35.29	54.00	-18.71	AVG
3	X	2410.900	101.16	0.86	102.02	Fundamental Frequency		peak
4	*	2411.300	96.61	0.86	97.47	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

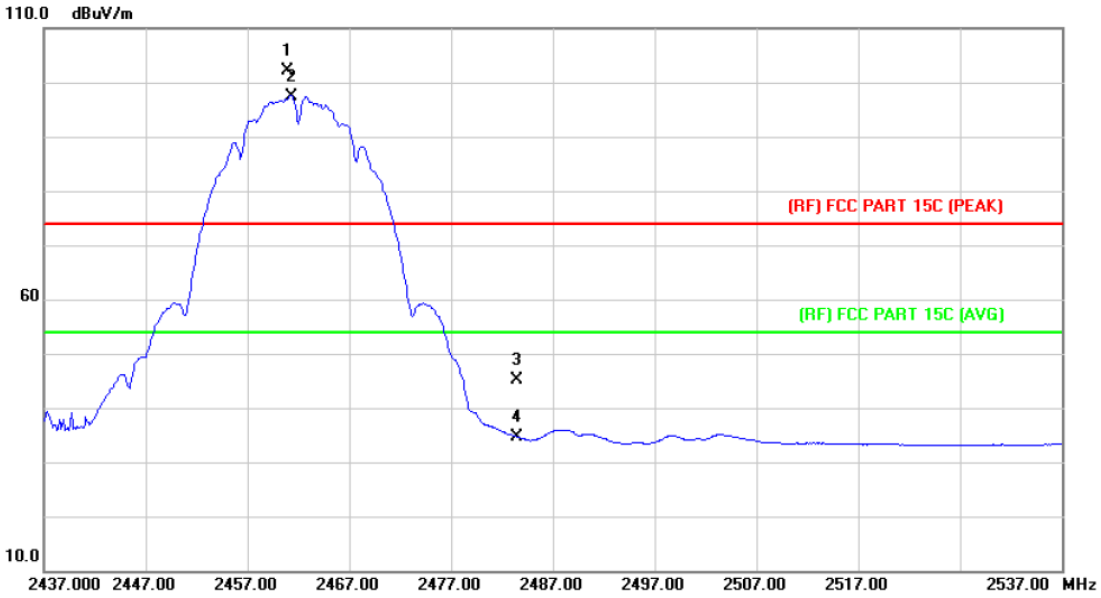
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2462.700	98.57	1.08	99.65	Fundamental Frequency		AVG
2	X	2463.000	103.40	1.08	104.48	Fundamental Frequency		peak
3		2483.500	48.16	1.17	49.33	74.00	-24.67	peak
4		2483.500	37.78	1.17	38.95	54.00	-15.05	AVG

Emission Level= Read Level+ Correct Factor

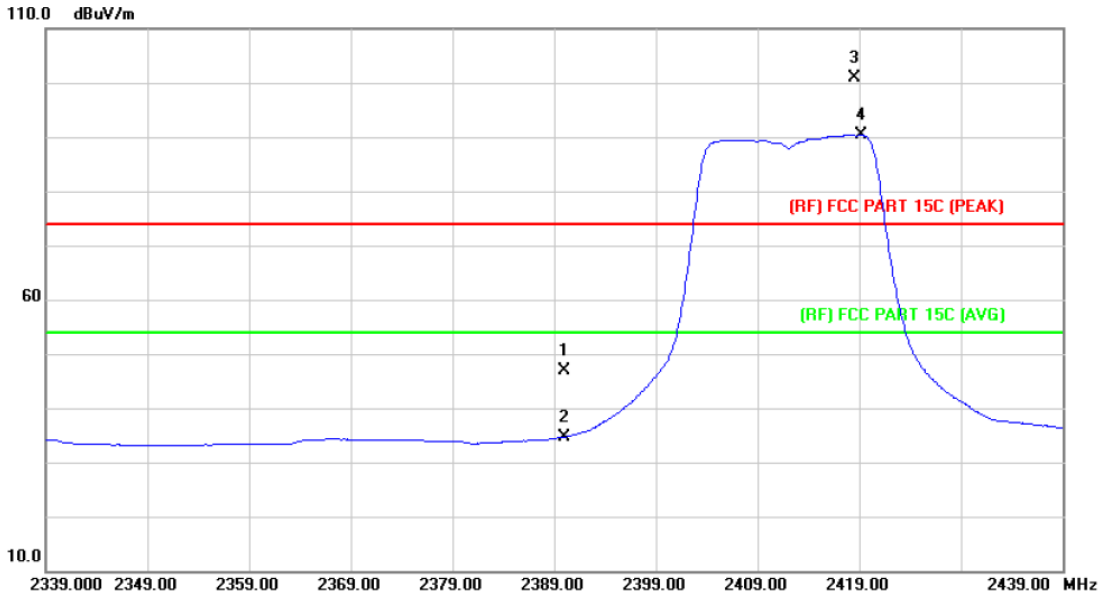
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2460.900	100.97	1.06	102.03	Fundamental Frequency		peak
2	*	2461.300	96.43	1.07	97.50	Fundamental Frequency		AVG
3		2483.500	43.89	1.17	45.06	74.00	-28.94	peak
4		2483.500	33.47	1.17	34.64	54.00	-19.36	AVG

Emission Level= Read Level+ Correct Factor

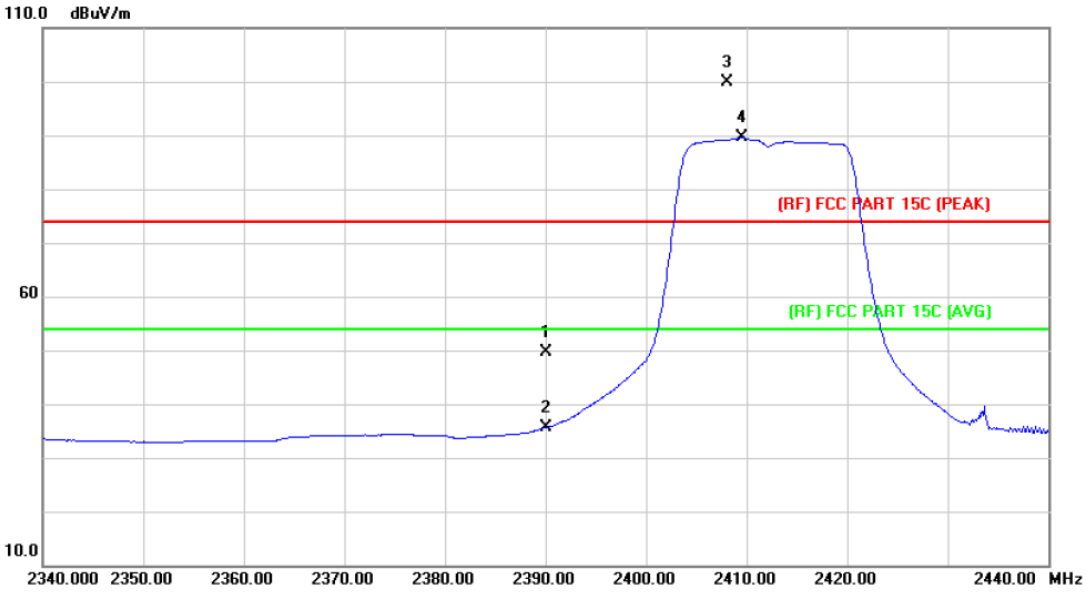
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.01	0.77	46.78	74.00	-27.22	peak
2		2390.000	33.95	0.77	34.72	54.00	-19.28	AVG
3	X	2418.600	100.04	0.89	100.93	Fundamental Frequency		peak
4	*	2419.200	89.41	0.89	90.30	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

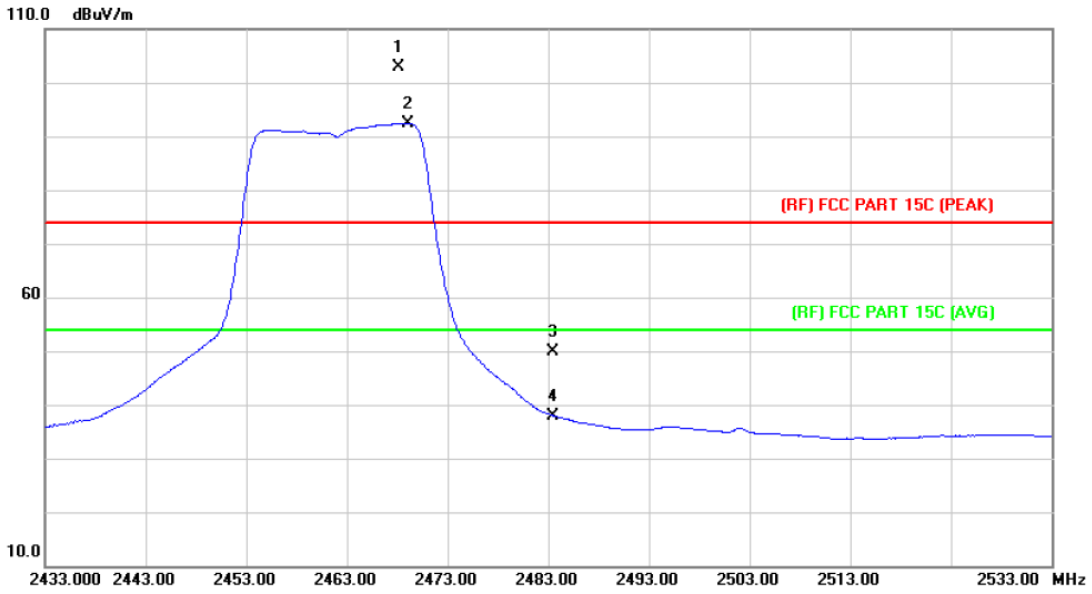
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.89	0.77	49.66	74.00	-24.34	peak
2		2390.000	34.87	0.77	35.64	54.00	-18.36	AVG
3	X	2408.100	98.92	0.85	99.77	Fundamental Frequency		peak
4	*	2409.600	88.71	0.85	89.56	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

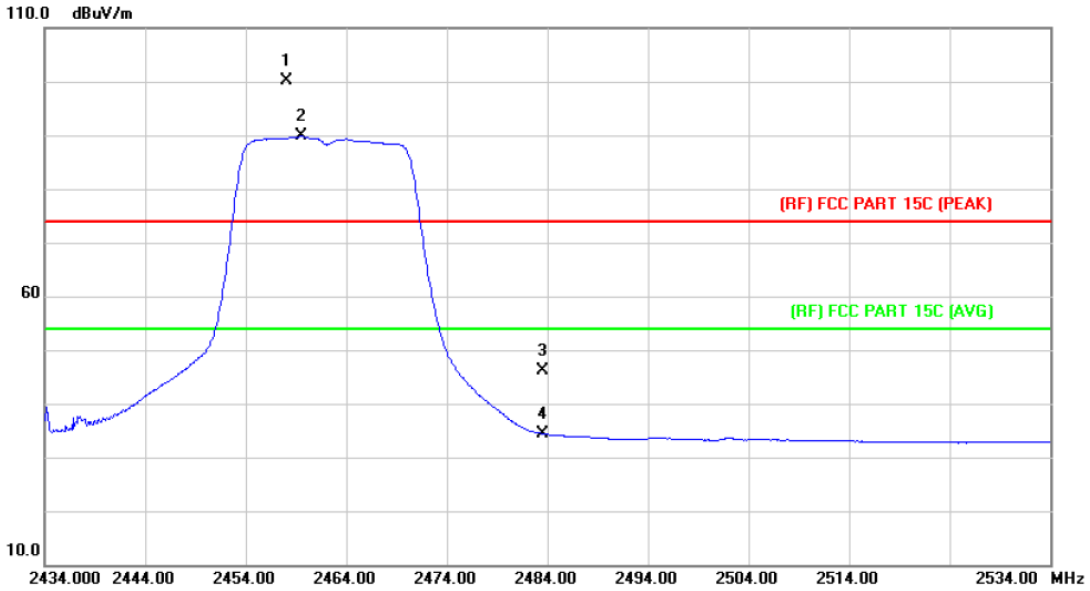
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2468.200	101.81	1.11	102.92	Fundamental Frequency		peak
2	*	2469.100	91.30	1.11	92.41	Fundamental Frequency		AVG
3		2483.500	48.66	1.17	49.83	74.00	-24.17	peak
4		2483.500	36.82	1.17	37.99	54.00	-16.01	AVG

Emission Level= Read Level+ Correct Factor

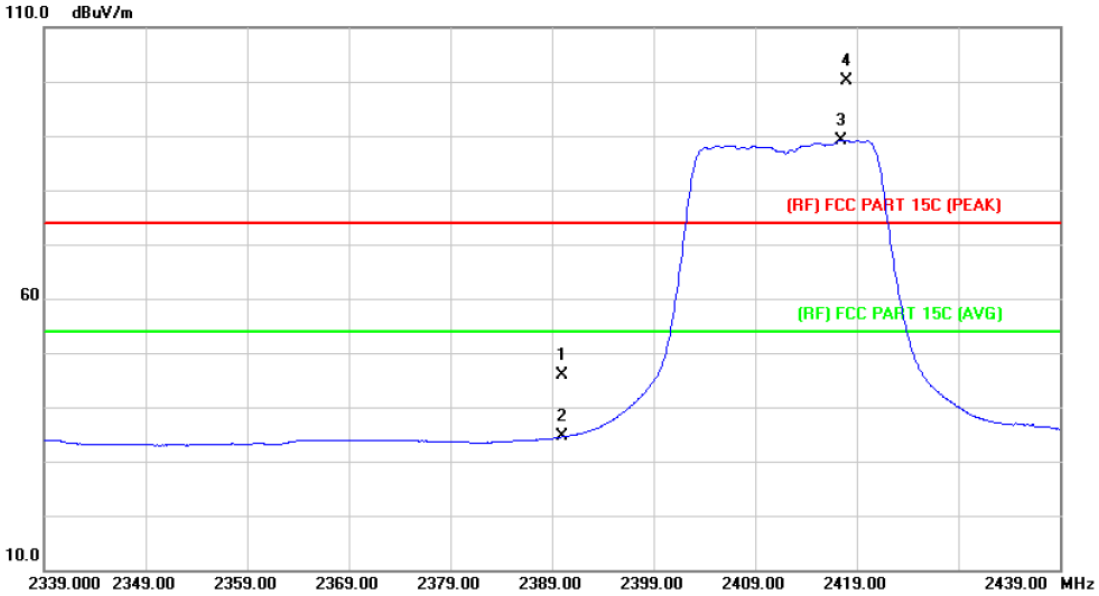
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2458.100	99.15	1.06	100.21	Fundamental Frequency		peak
2	*	2459.500	88.72	1.06	89.78	Fundamental Frequency		AVG
3		2483.500	45.03	1.17	46.20	74.00	-27.80	peak
4		2483.500	33.28	1.17	34.45	54.00	-19.55	AVG

Emission Level= Read Level+ Correct Factor

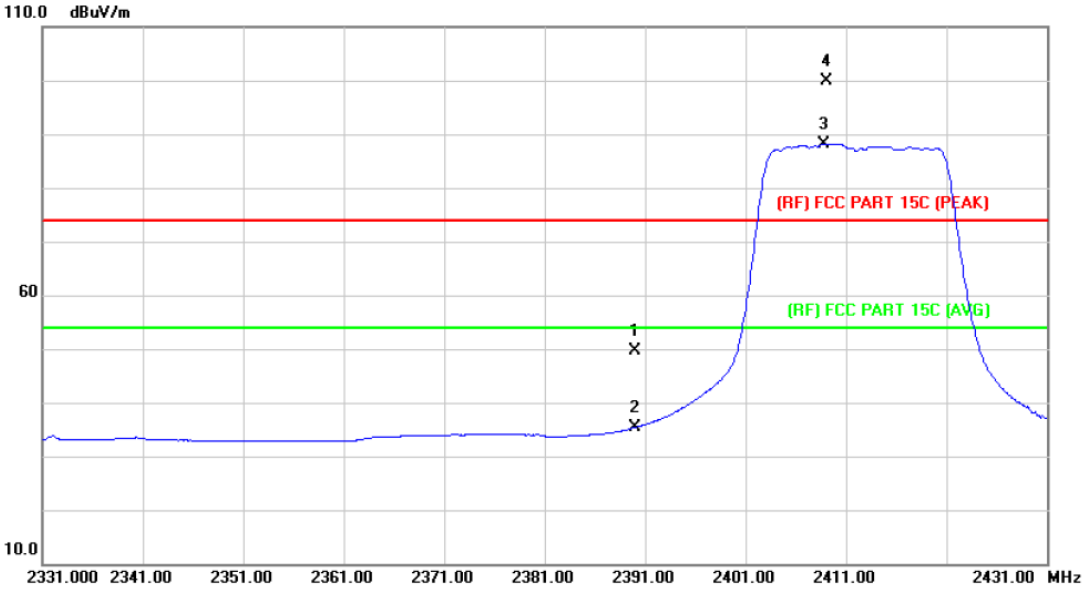
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.00	0.77	45.77	74.00	-28.23	peak
2		2390.000	33.74	0.77	34.51	54.00	-19.49	AVG
3	*	2417.400	88.23	0.89	89.12	Fundamental Frequency		AVG
4	X	2418.000	99.12	0.89	100.01	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

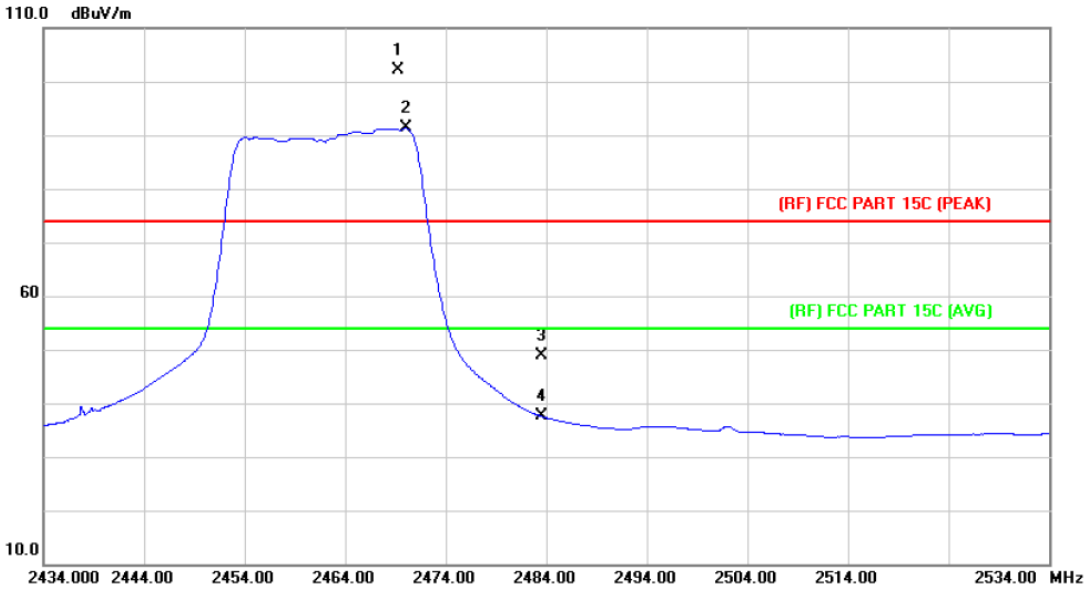
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	48.91	0.77	49.68	74.00	-24.32	peak
2		2390.000	34.61	0.77	35.38	54.00	-18.62	AVG
3	*	2408.800	87.38	0.85	88.23	Fundamental Frequency		AVG
4	X	2409.000	98.97	0.85	99.82	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

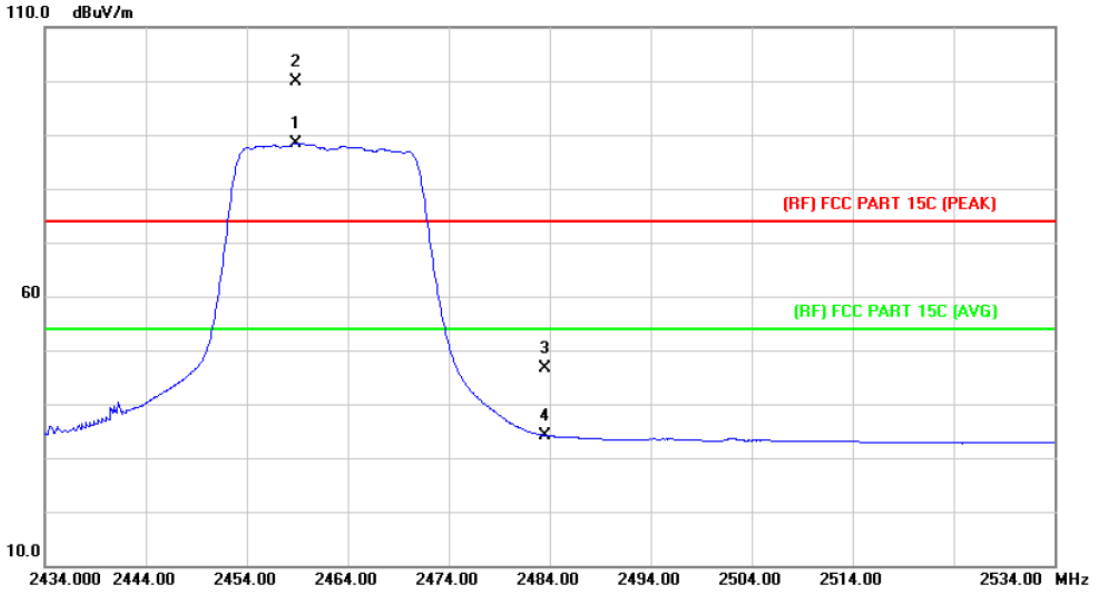
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.300	101.09	1.11	102.20	Fundamental Frequency		peak
2	*	2470.000	90.19	1.11	91.30	Fundamental Frequency		AVG
3		2483.500	47.80	1.17	48.97	74.00	-25.03	peak
4		2483.500	36.39	1.17	37.56	54.00	-16.44	AVG

Emission Level= Read Level+ Correct Factor

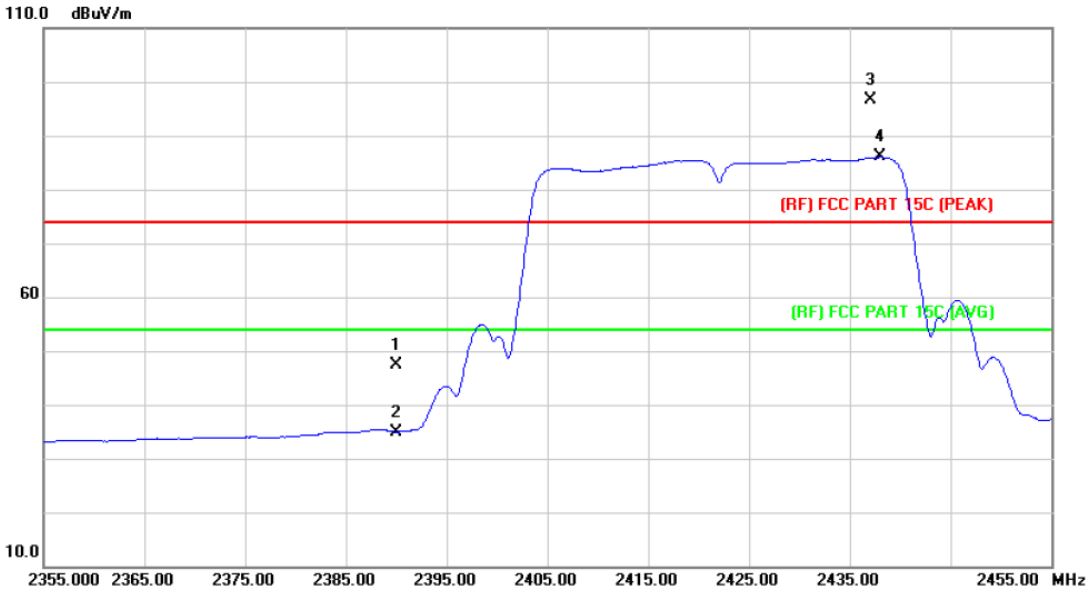
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2458.800	87.28	1.06	88.34	Fundamental Frequency		AVG
2	X	2458.900	98.85	1.06	99.91	Fundamental Frequency		peak
3		2483.500	45.56	1.17	46.73	74.00	-27.27	peak
4		2483.500	33.01	1.17	34.18	54.00	-19.82	AVG

Emission Level= Read Level+ Correct Factor

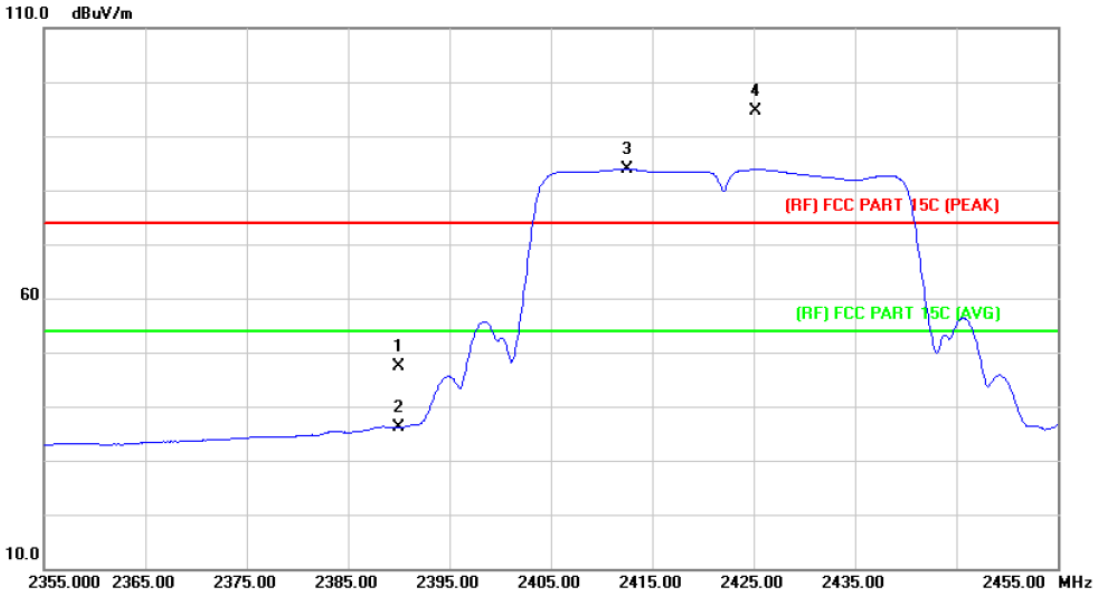
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.71	0.77	47.48	74.00	-26.52	peak
2		2390.000	34.22	0.77	34.99	54.00	-19.01	AVG
3	X	2437.000	95.57	0.97	96.54	Fundamental Frequency		peak
4	*	2438.000	85.04	0.98	86.02	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

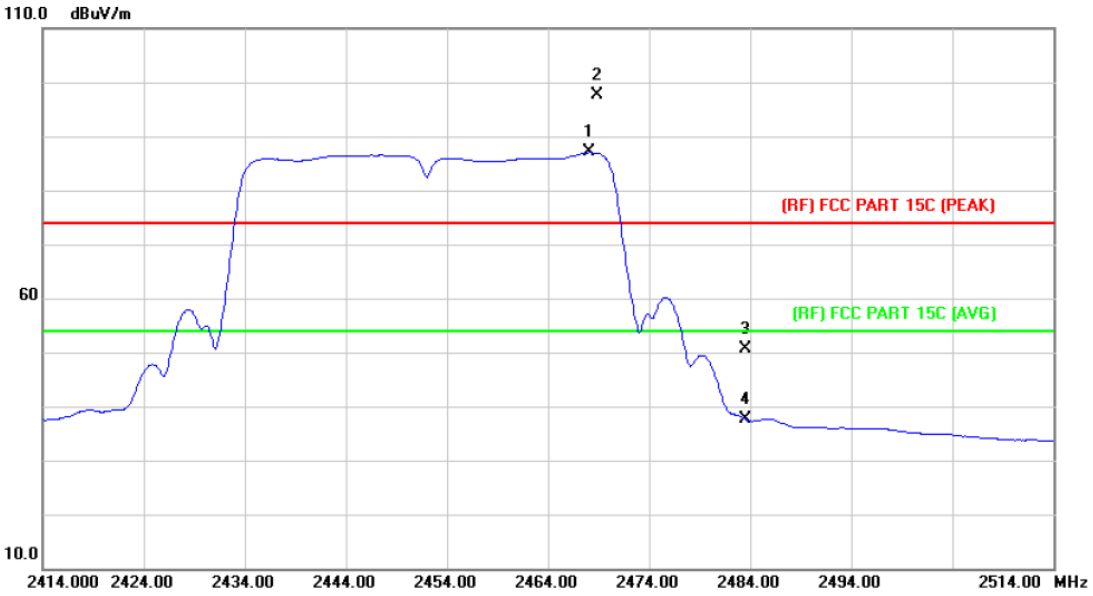
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	46.52	0.77	47.29	74.00	-26.71	peak
2		2390.000	35.25	0.77	36.02	54.00	-17.98	AVG
3	*	2412.500	83.00	0.86	83.86	Fundamental Frequency		AVG
4	X	2425.200	93.69	0.93	94.62	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

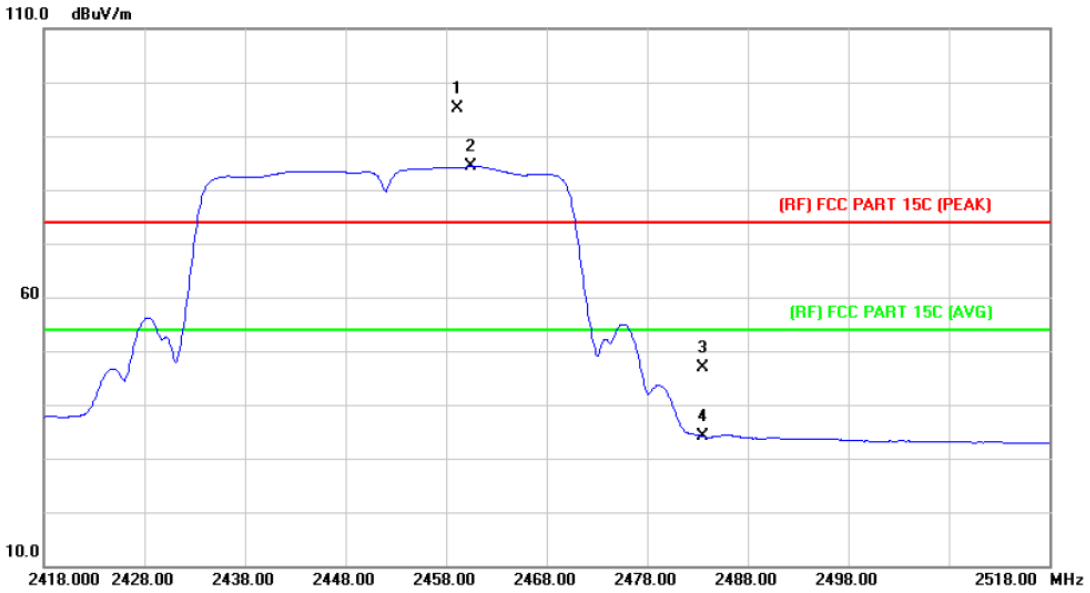
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2468.100	85.91	1.11	87.02	Fundamental Frequency		AVG
2	X	2468.800	96.43	1.11	97.54	Fundamental Frequency		peak
3		2483.500	49.50	1.17	50.67	74.00	-23.33	peak
4		2483.500	36.52	1.17	37.69	54.00	-16.31	AVG

Emission Level= Read Level+ Correct Factor

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

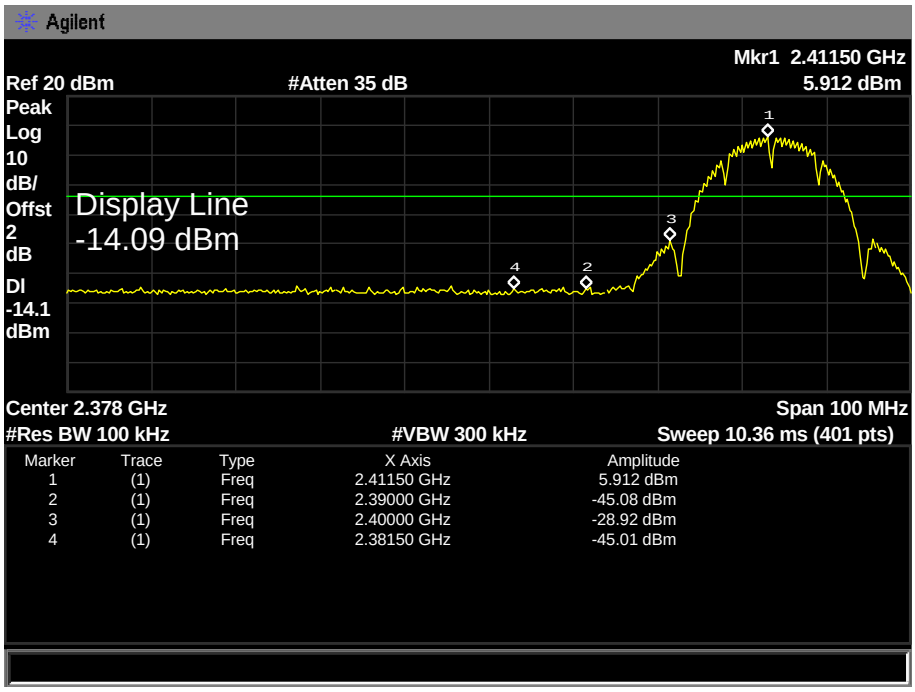


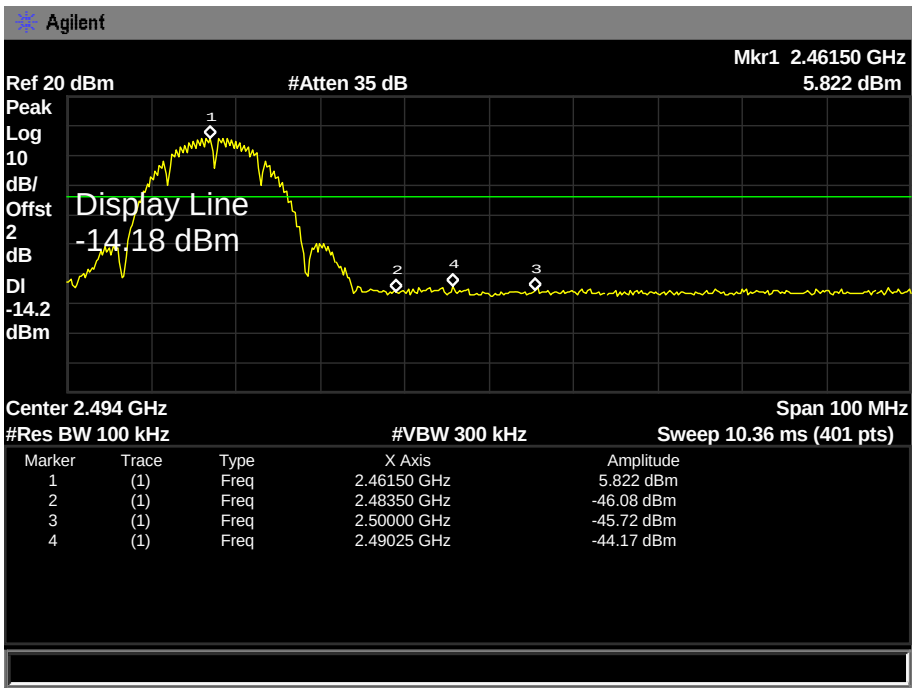
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2459.200	94.03	1.06	95.09	Fundamental Frequency		peak
2	*	2460.400	83.24	1.06	84.30	Fundamental Frequency		AVG
3		2483.500	45.63	1.17	46.80	74.00	-27.20	peak
4		2483.500	32.95	1.17	34.12	54.00	-19.88	AVG

Emission Level= Read Level+ Correct Factor

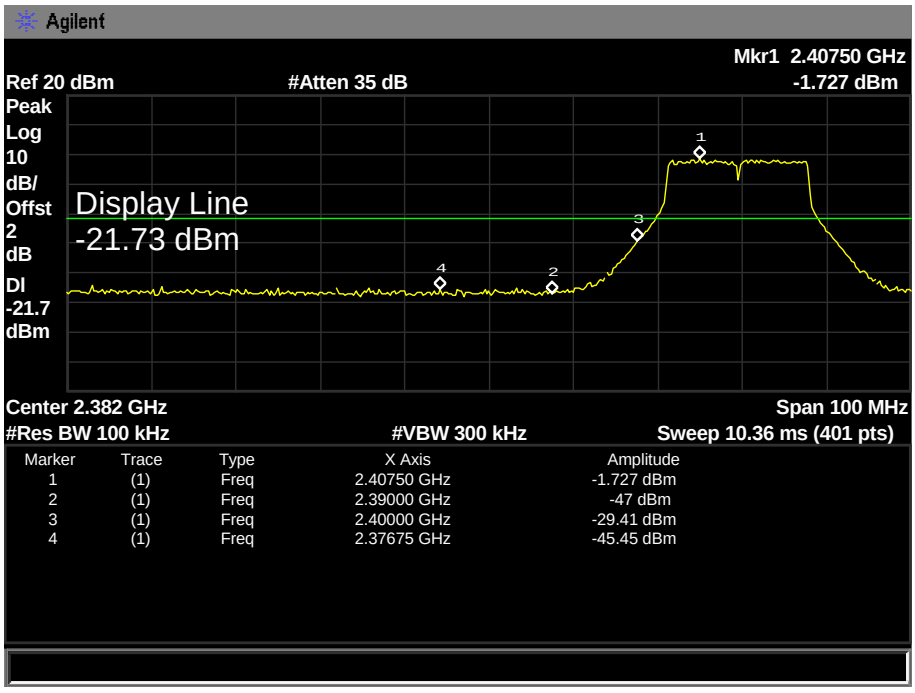
(2) Conducted Test

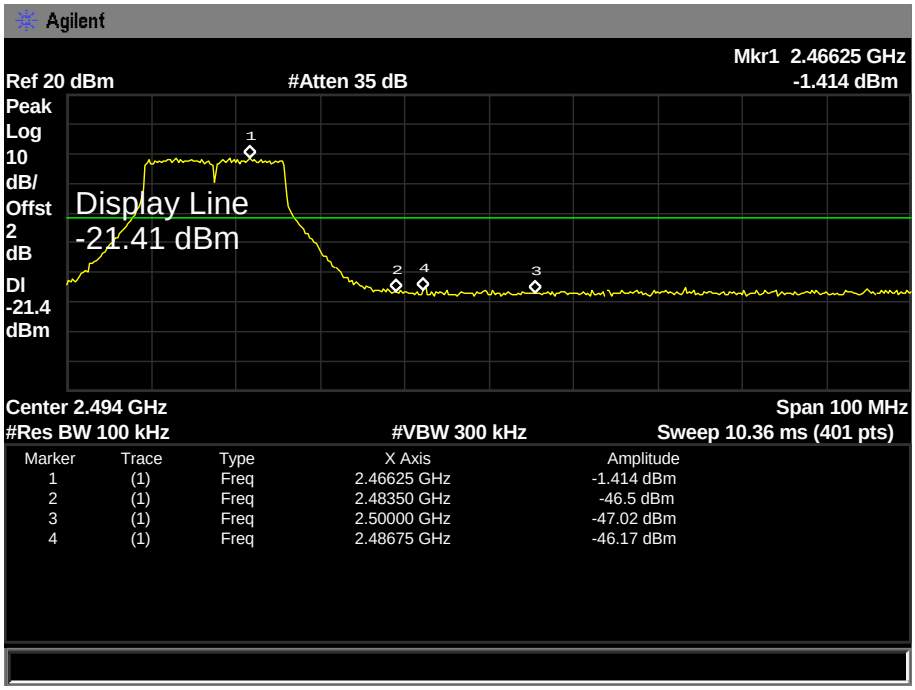
EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



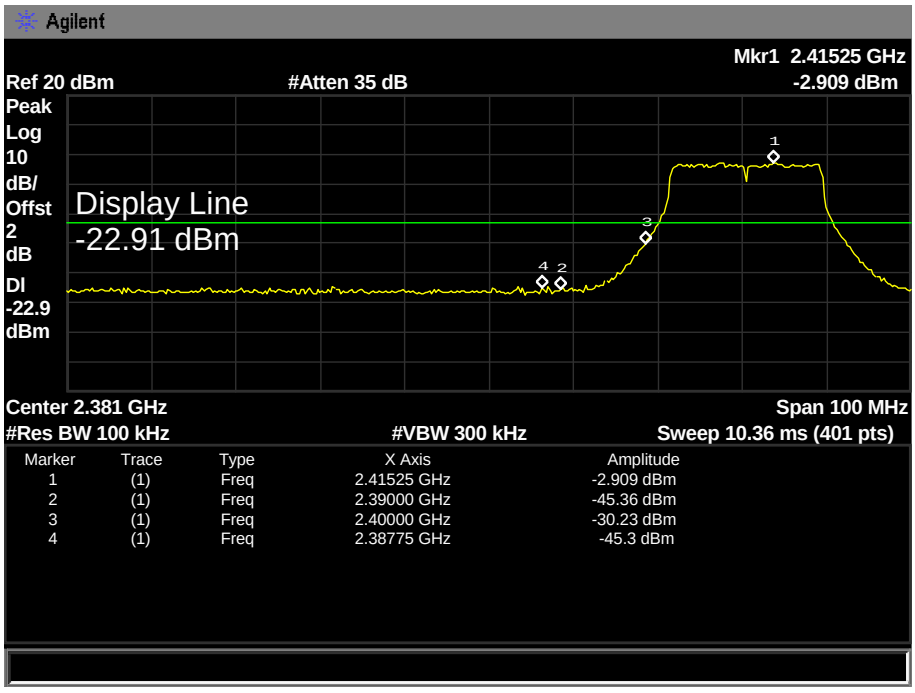


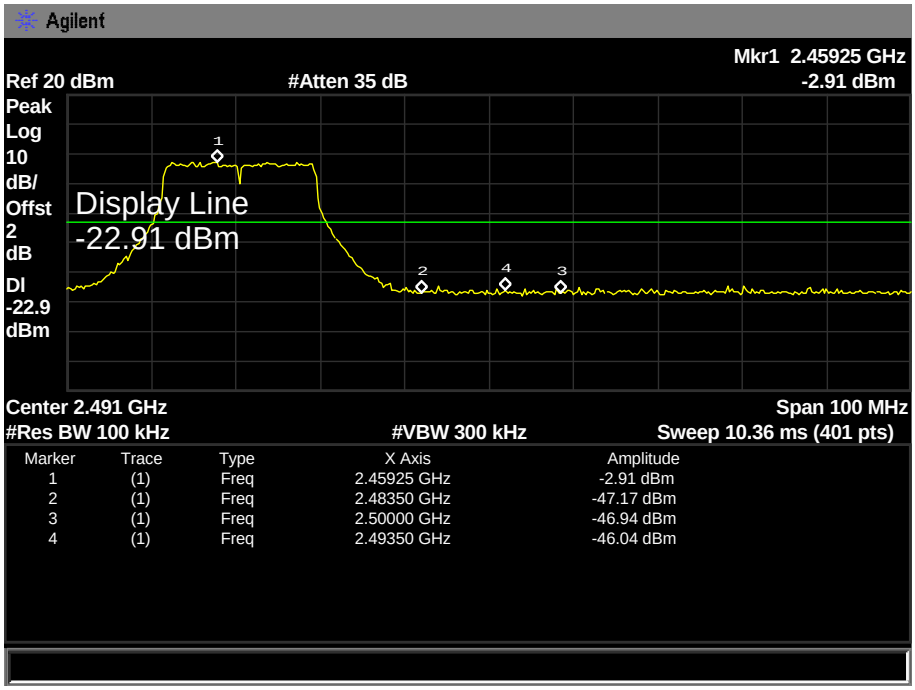
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



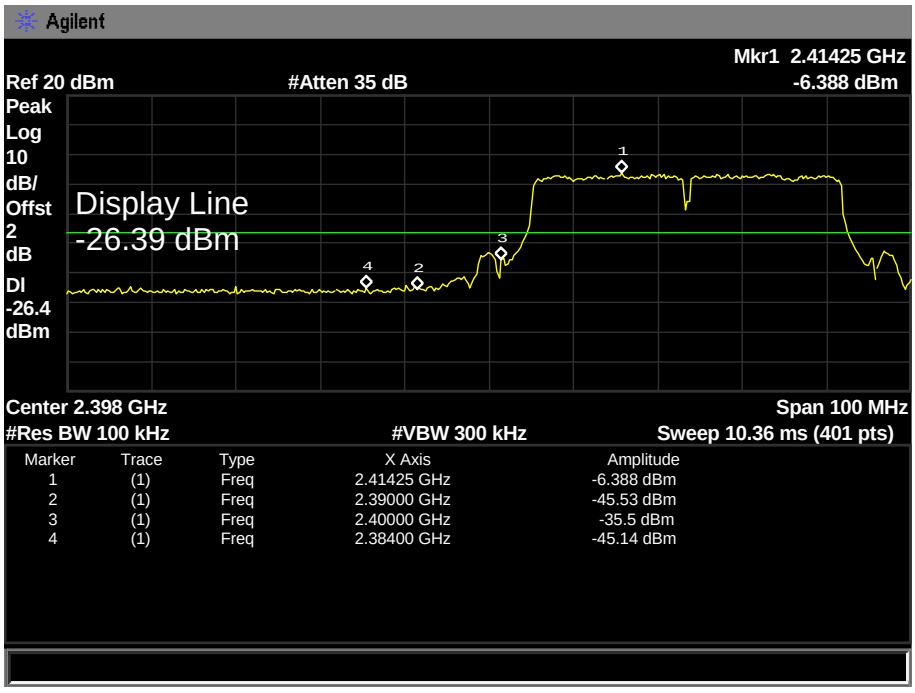


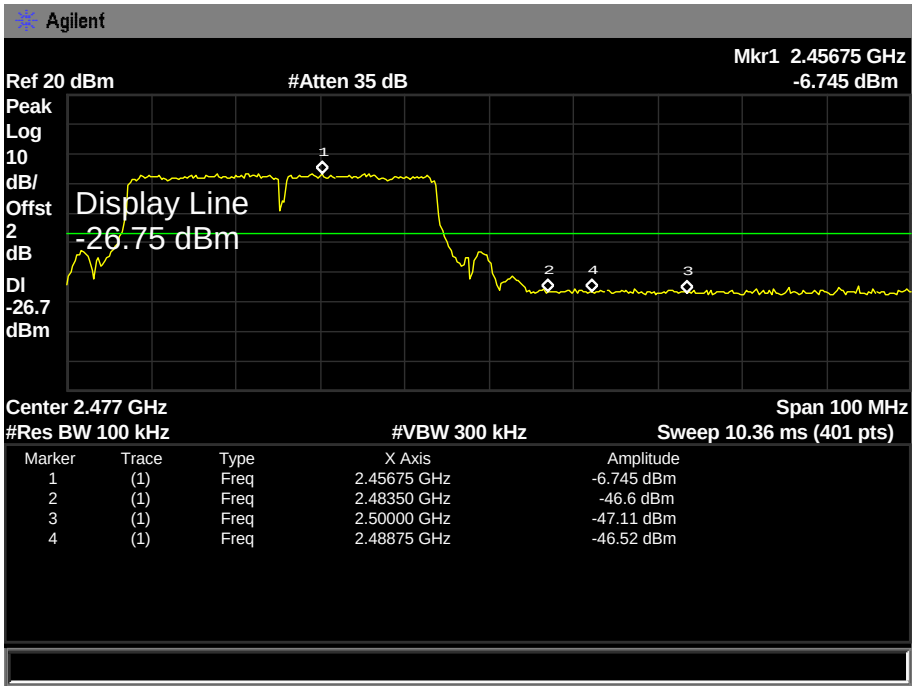
EUT:	32"IDISPLAY	**Model Name :**	UIT232B-B06
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		





EUT:	32”IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		





7. Bandwidth Test

7.1 Test Standard and Limit

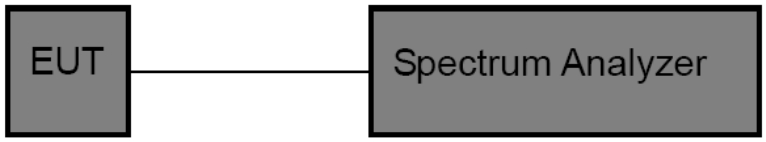
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	**Limit**	**Frequency Range(MHz)**
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

(2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.

(3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

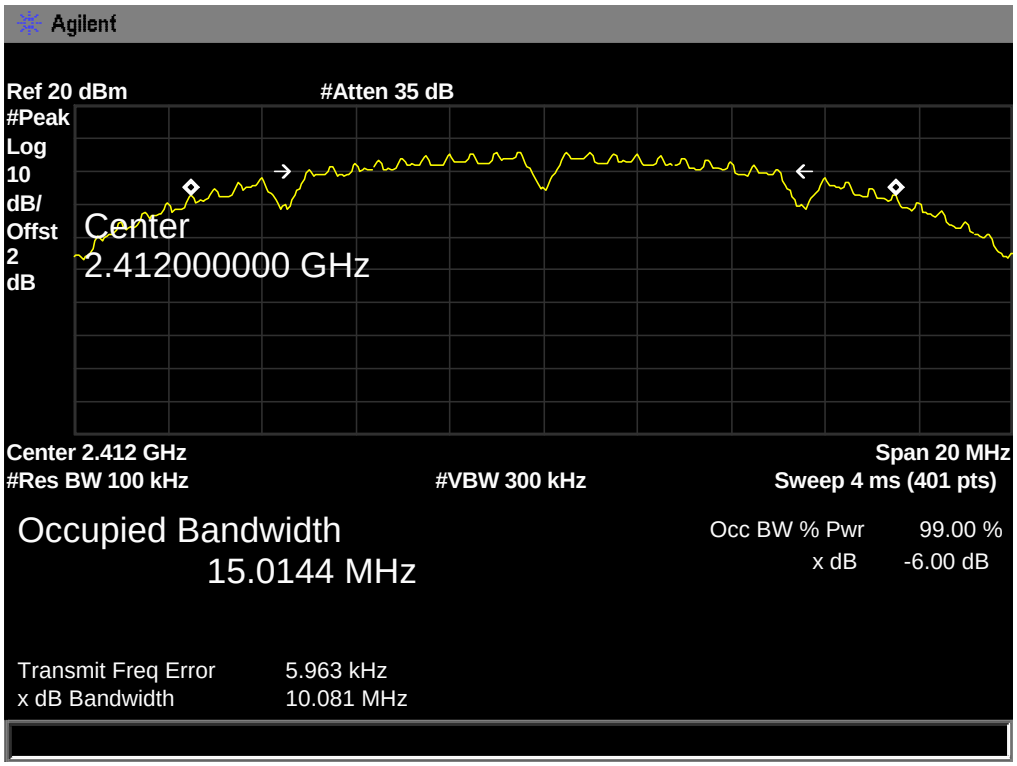
7.5 Test Data

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11B Mode		

Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.081	15.0144	>=0.5
2437	10.072	15.0325	
2462	10.067	15.0140	

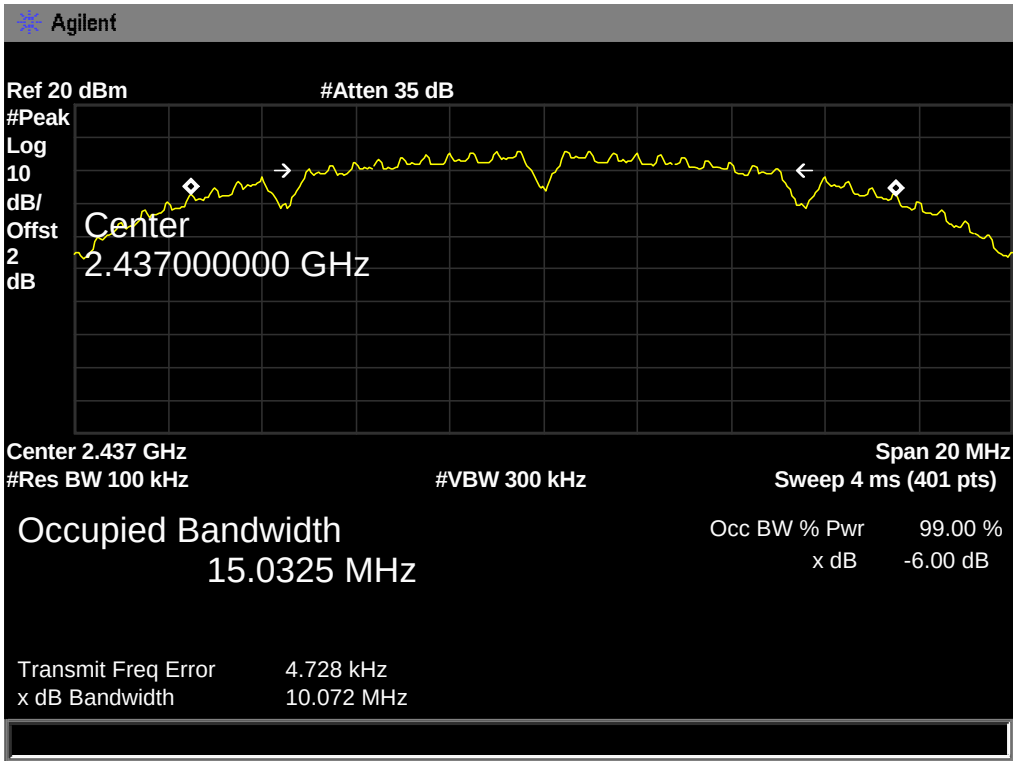
802.11B Mode

2412 MHz



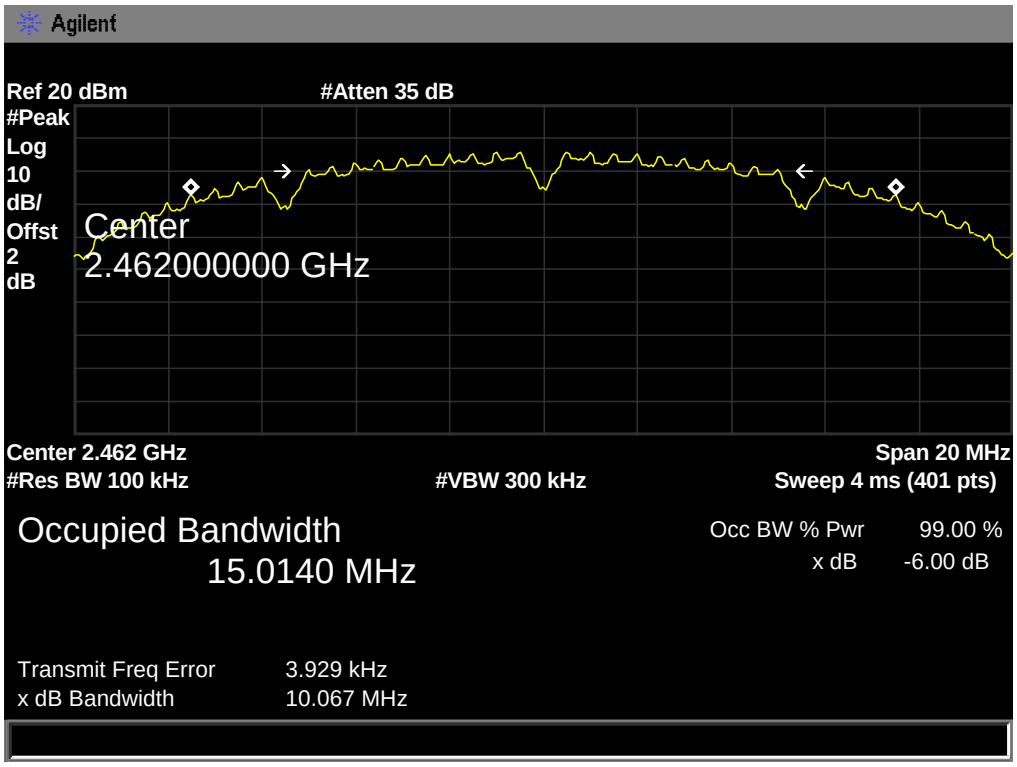
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz

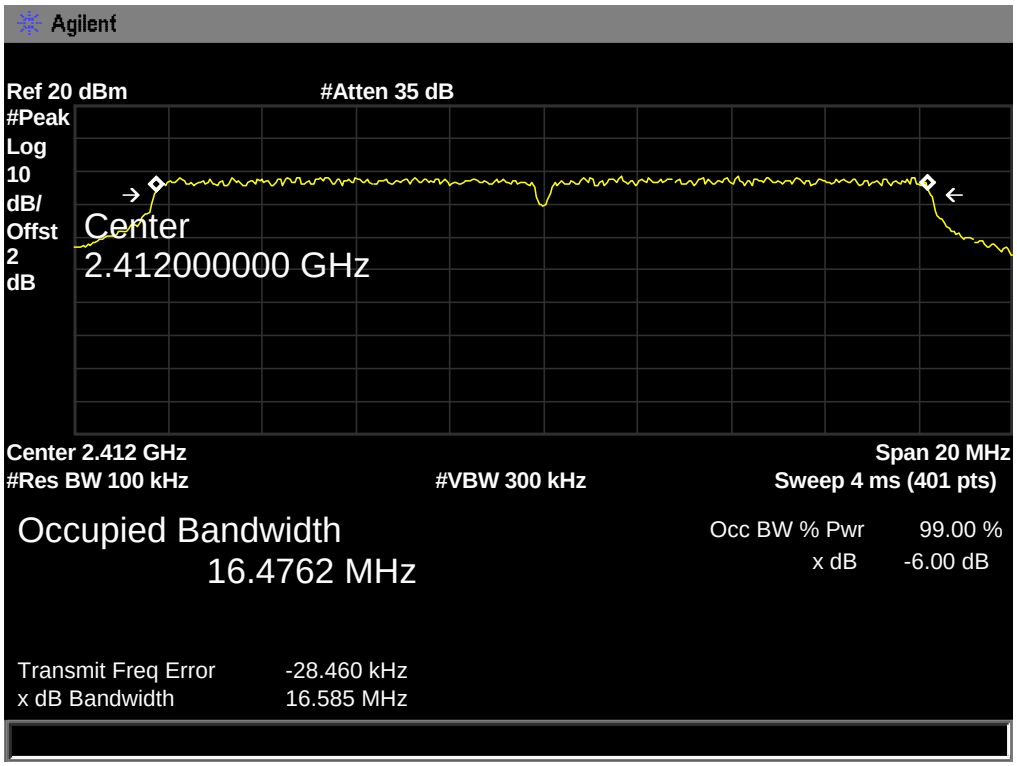


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11G Mode		

Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.585	16.4762	>=0.5
2437	16.600	16.4849	
2462	16.583	16.4813	

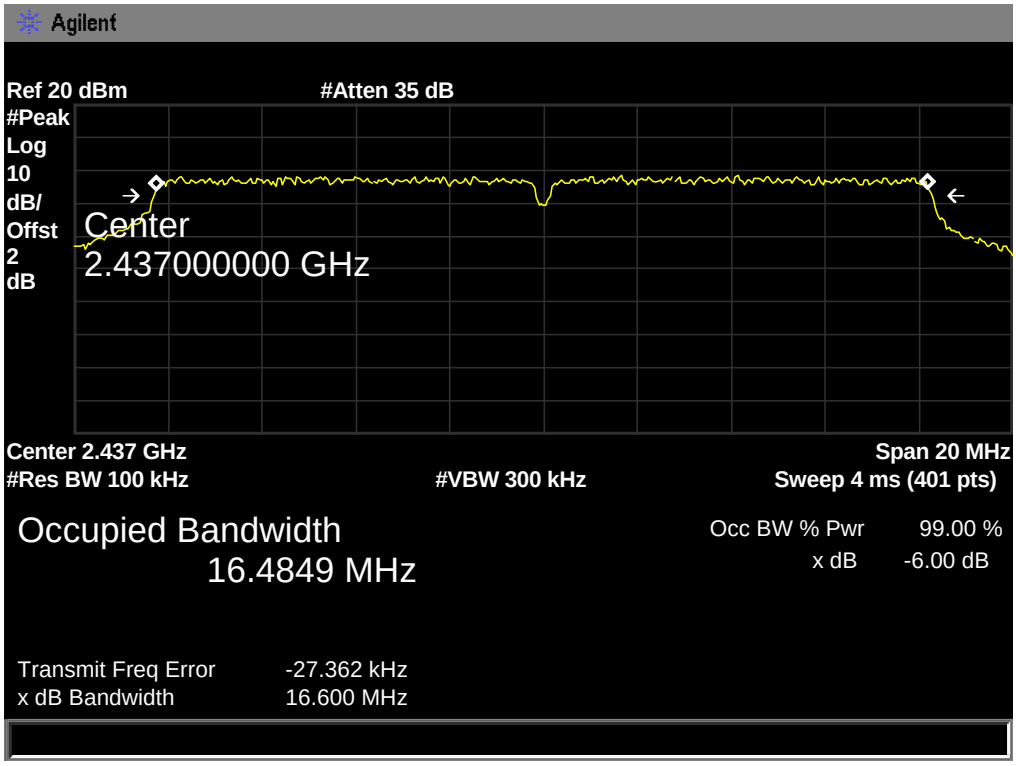
802.11G Mode

2412 MHz



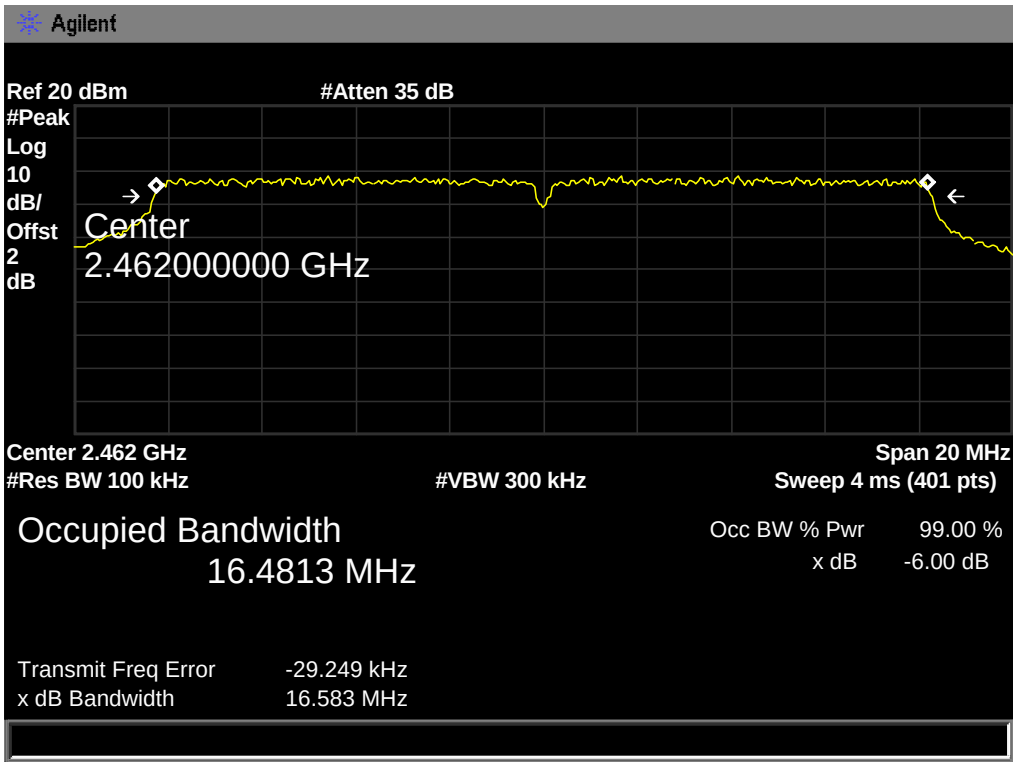
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz

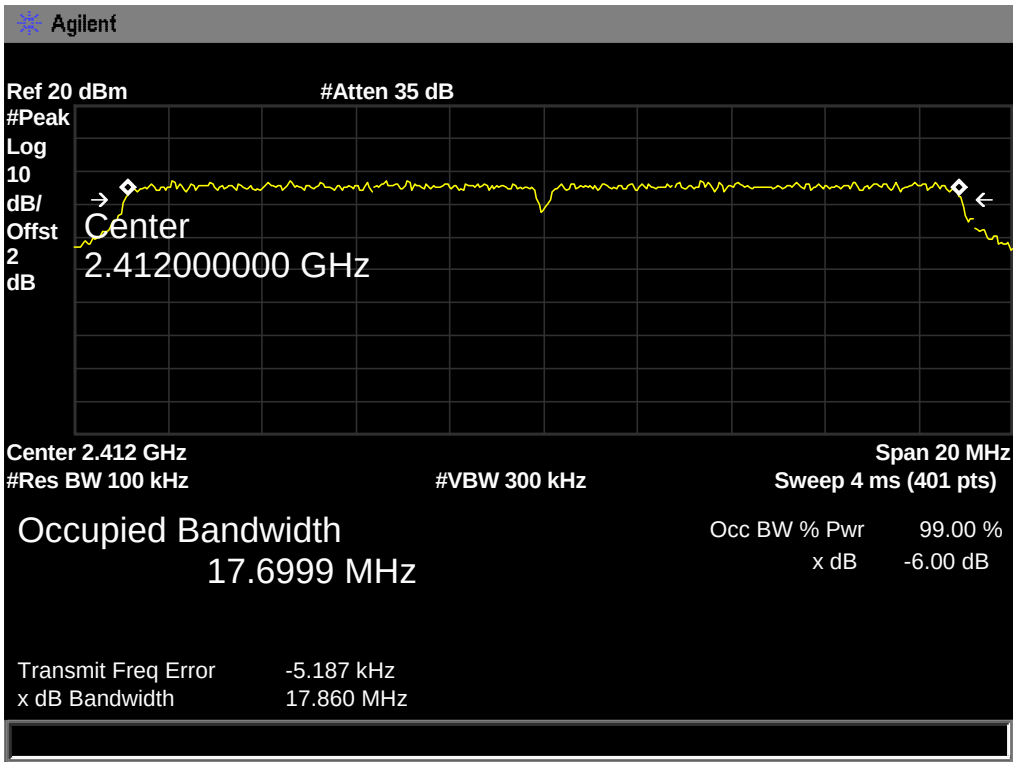


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT20) Mode		

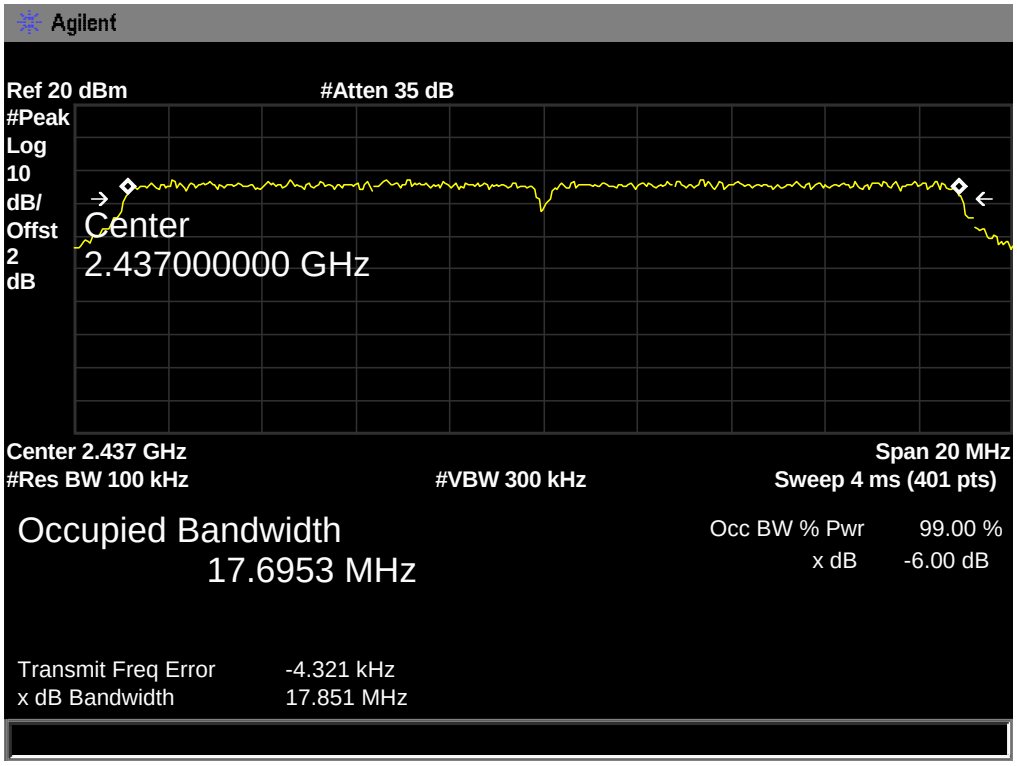
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.860	17.6999	>=0.5
2437	17.851	17.6953	
2462	17.862	17.7059	

802.11N(HT20) Mode

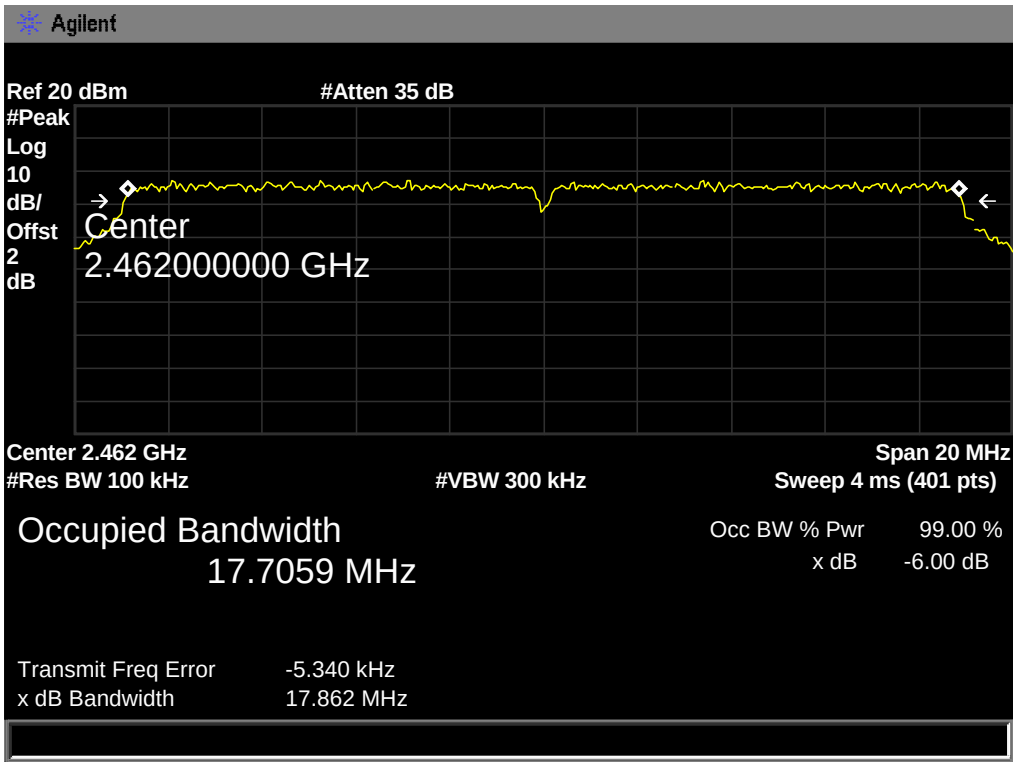
2412 MHz



802.11N(HT20) Mode
2437 MHz



802.11N(HT20) Mode
2462 MHz

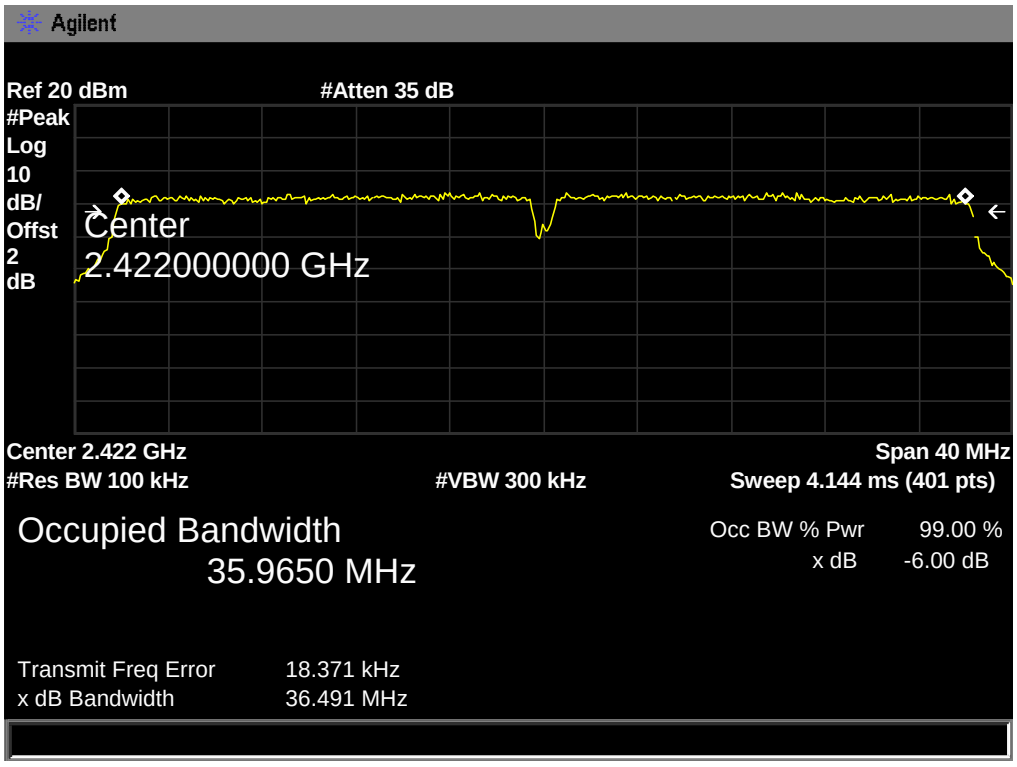


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT40) Mode		

Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.491	35.9650	>=0.5
2437	36.448	35.9572	
2452	36.481	35.9618	

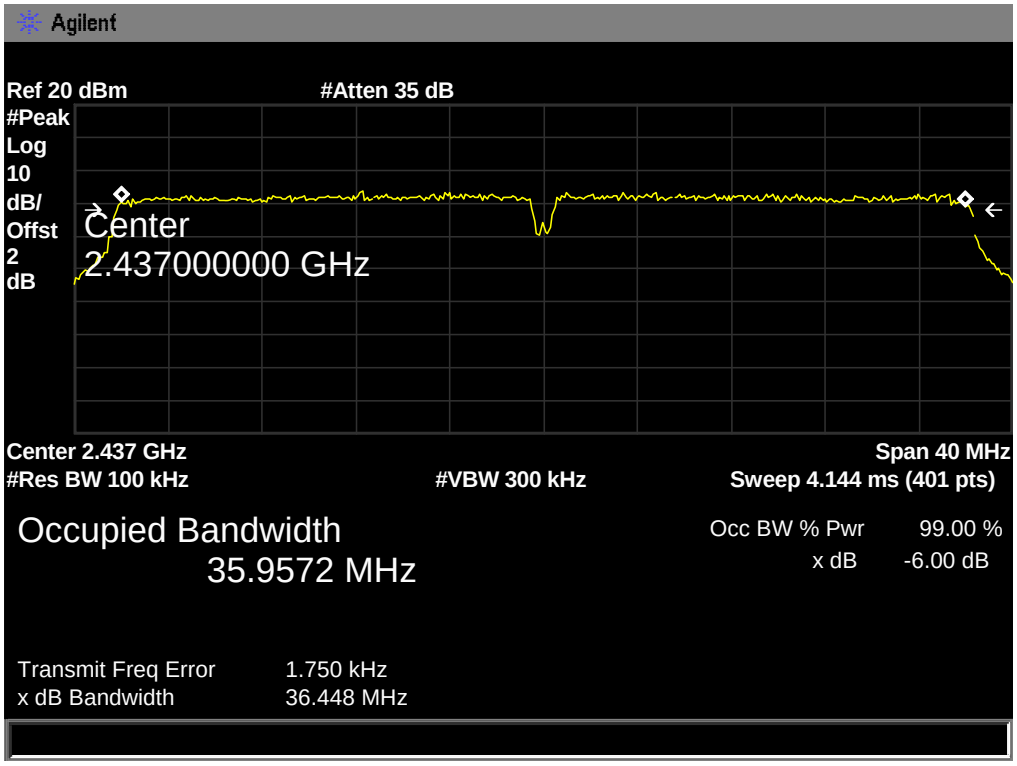
802.11N(HT40) Mode

2422 MHz



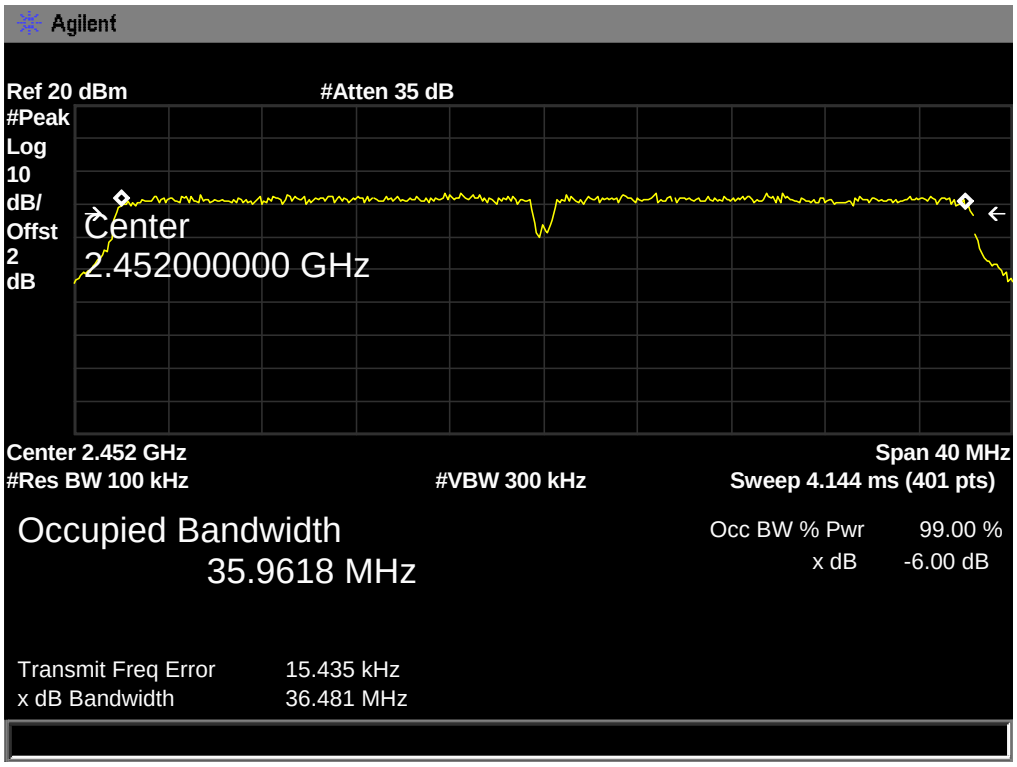
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

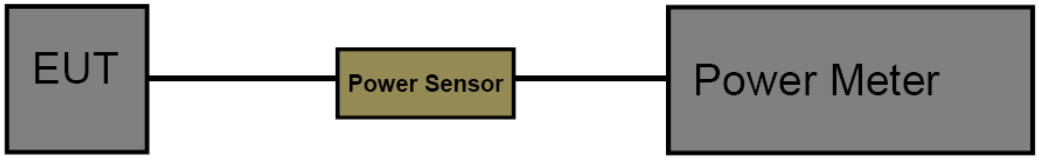
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	**Limit**	**Frequency Range(MHz)**
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r03.
The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		

Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	19.35	30
	2437	19.41	
	2462	19.64	
802.11g	2412	17.85	
	2437	18.02	
	2462	17.85	
802.11n (HT20)	2412	16.95	
	2437	16.93	
	2462	16.84	
802.11n (HT40)	2422	14.23	
	2437	14.23	
	2452	14.13	

9. Power Spectral Density Test

9.1 Test Standard and Limit

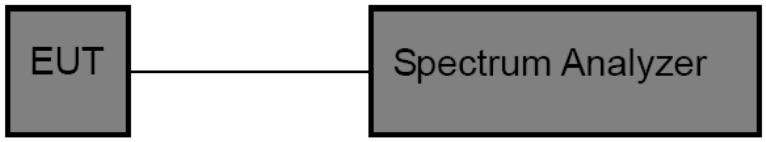
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	**Limit**	**Frequency Range(MHz)**
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
(2) Set analyser center frequency to DTS channel center frequency.
(3) Set the span to 1.5 times the DTS bandwidth.
(4) Set the RBW to: 3 kHz
(5) Set the VBW to: 10 kHz
(6) Detector: peak
(7) Sweep time: auto
(8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Midle and high channel for the test.

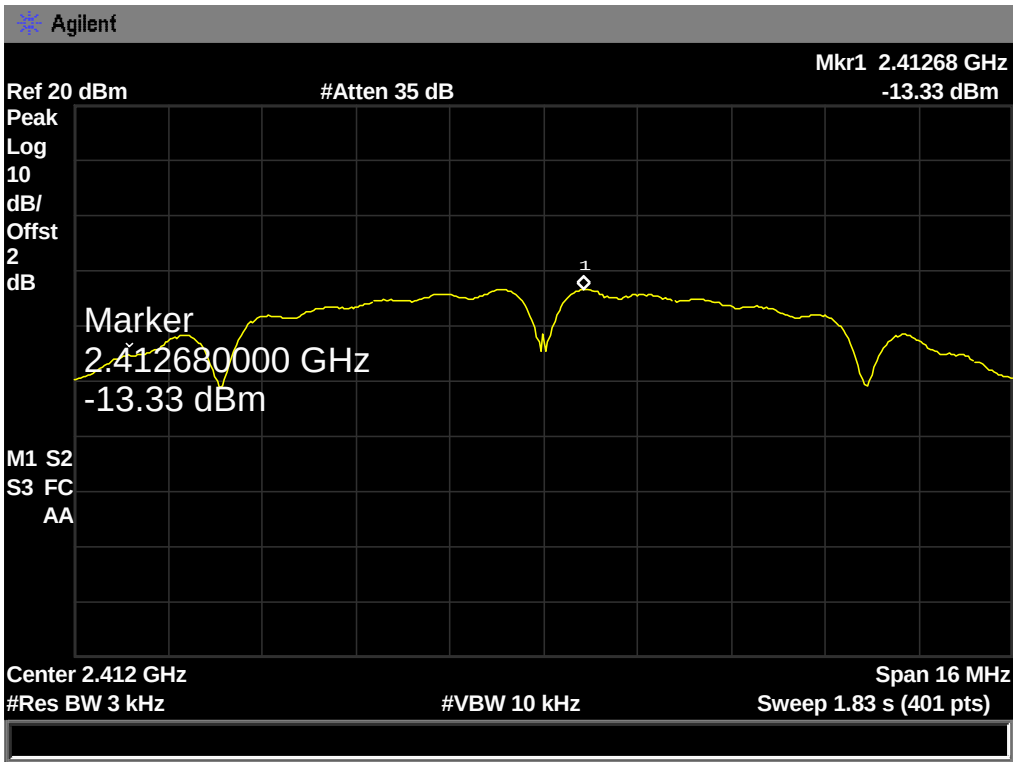
9.5 Test Data

EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11B Mode		

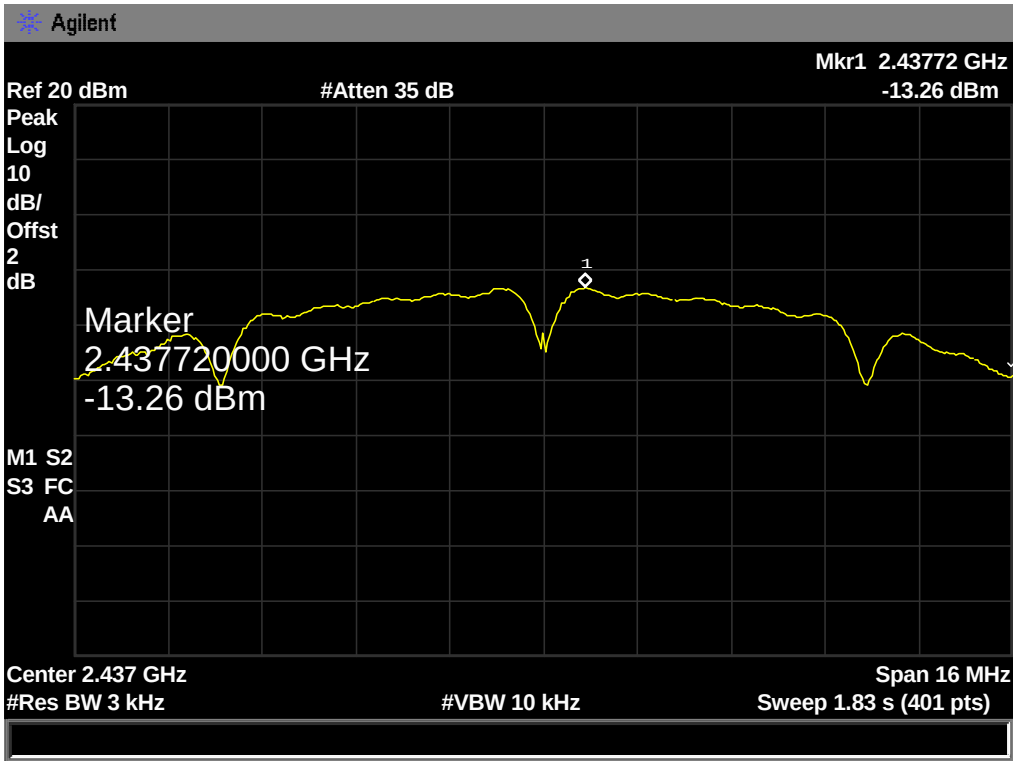
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-13.33	8
2437	-13.26	
2462	-13.27	

802.11B Mode

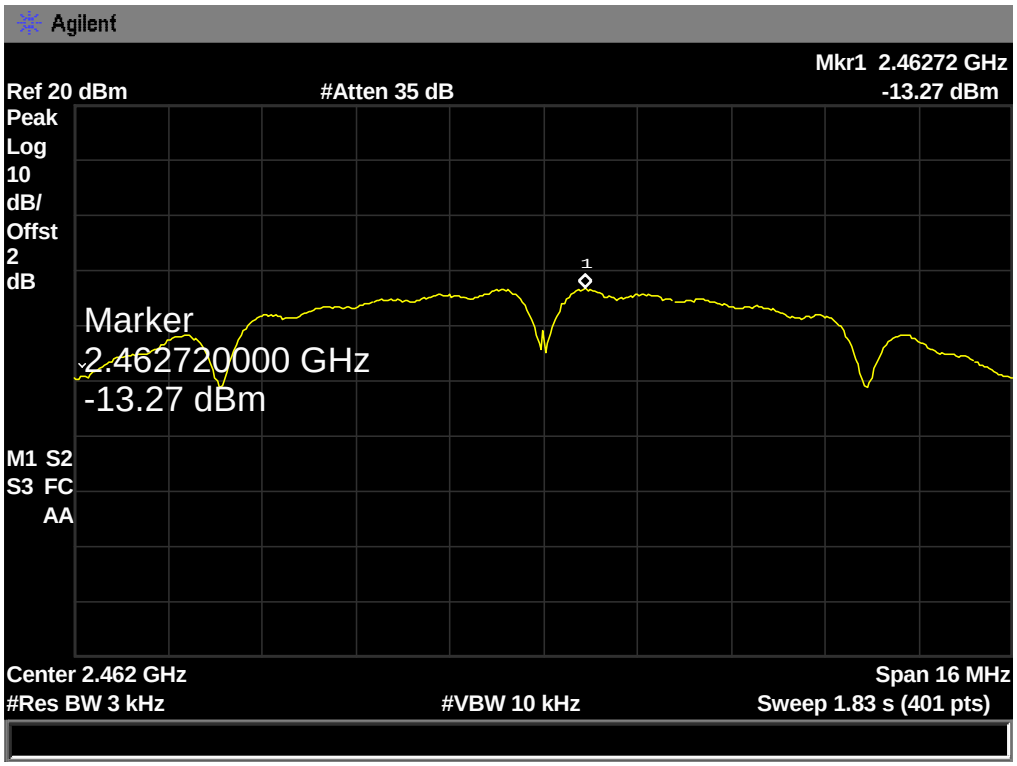
2412 MHz



802.11B Mode
2437 MHz



802.11B Mode
2462 MHz

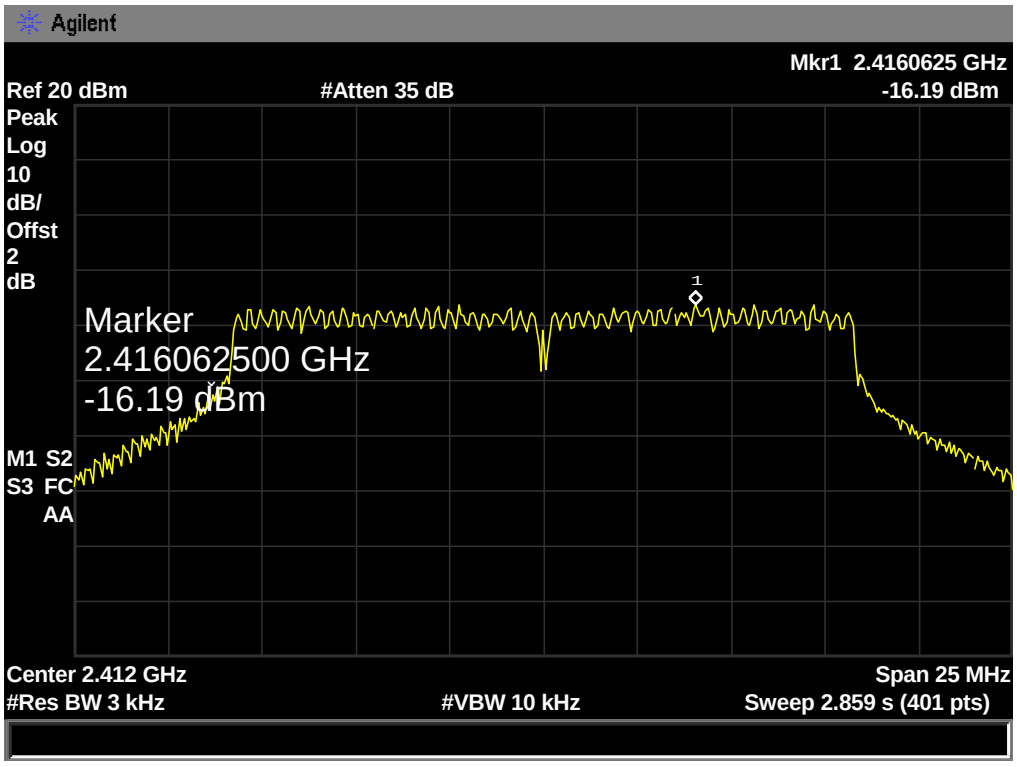


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11G Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-16.19	8
2437	-16.50	
2462	-16.35	

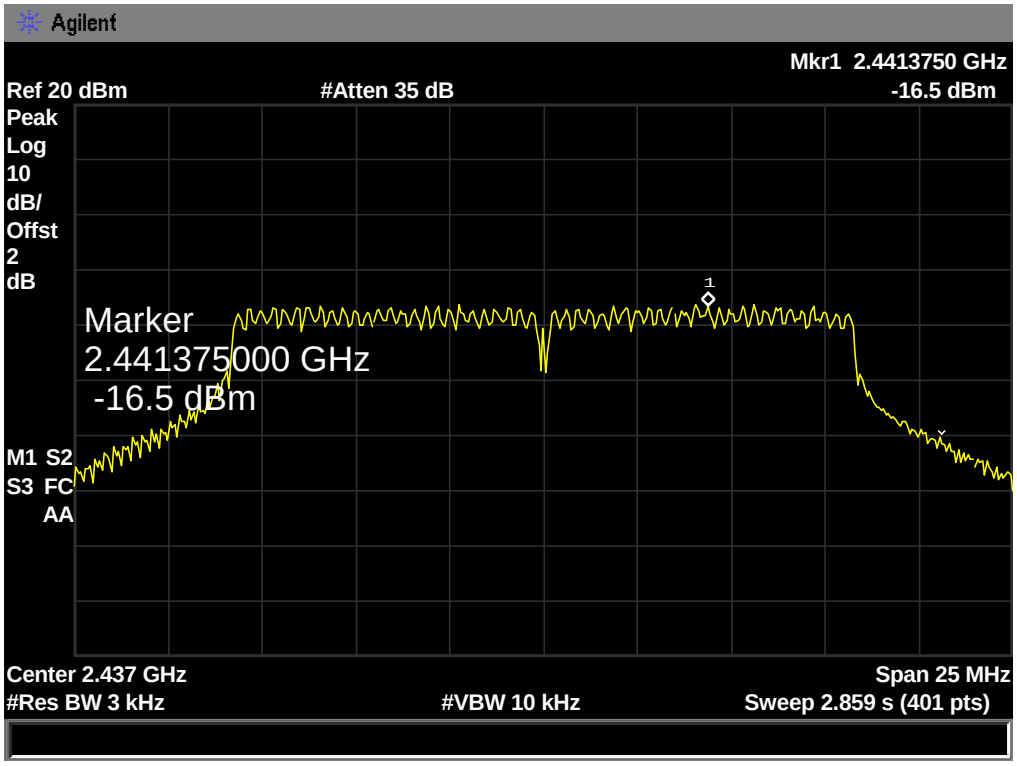
802.11G Mode

2412 MHz



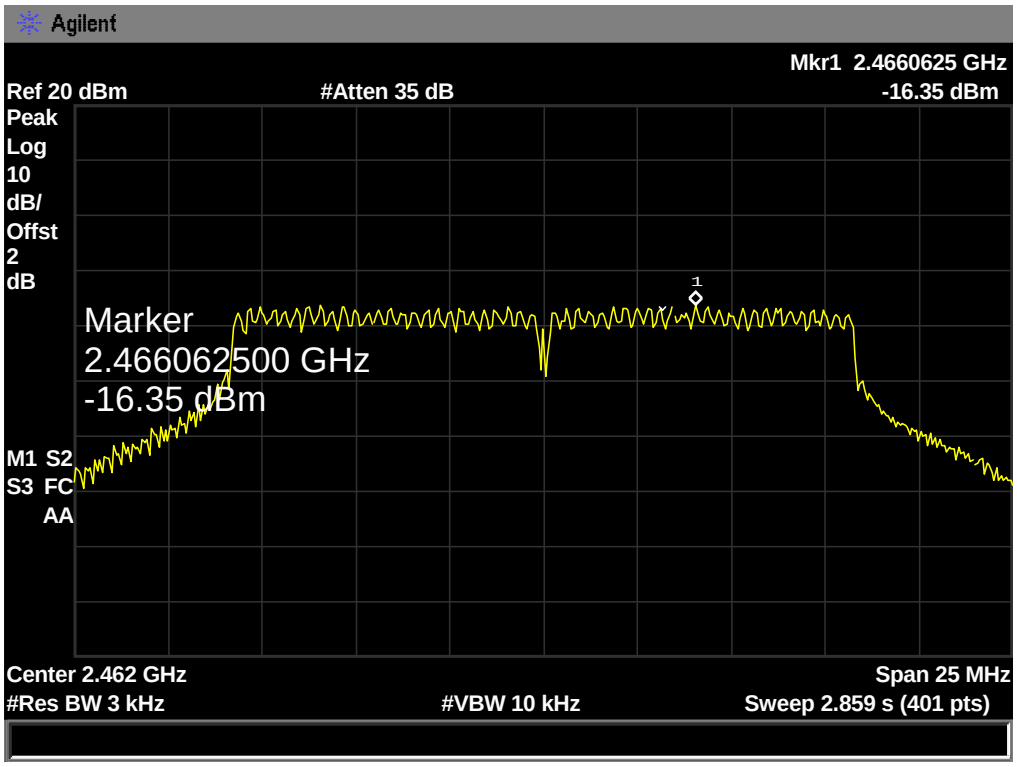
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz

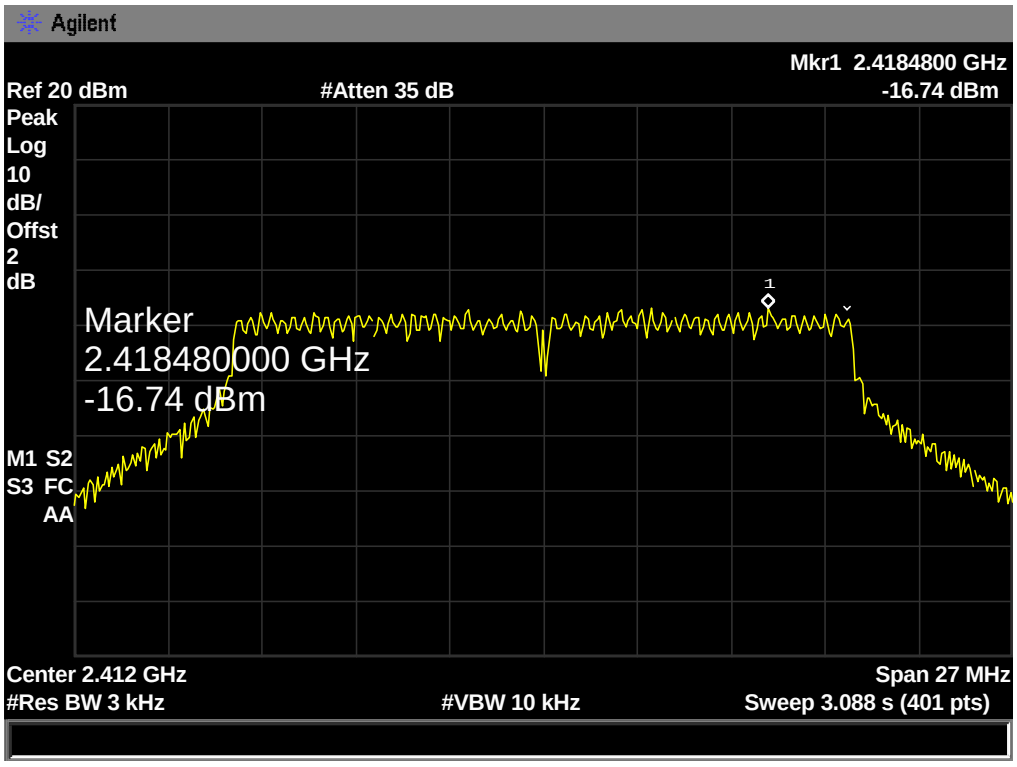


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT20) Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2412	-16.74	8
2437	-16.83	
2462	-16.68	

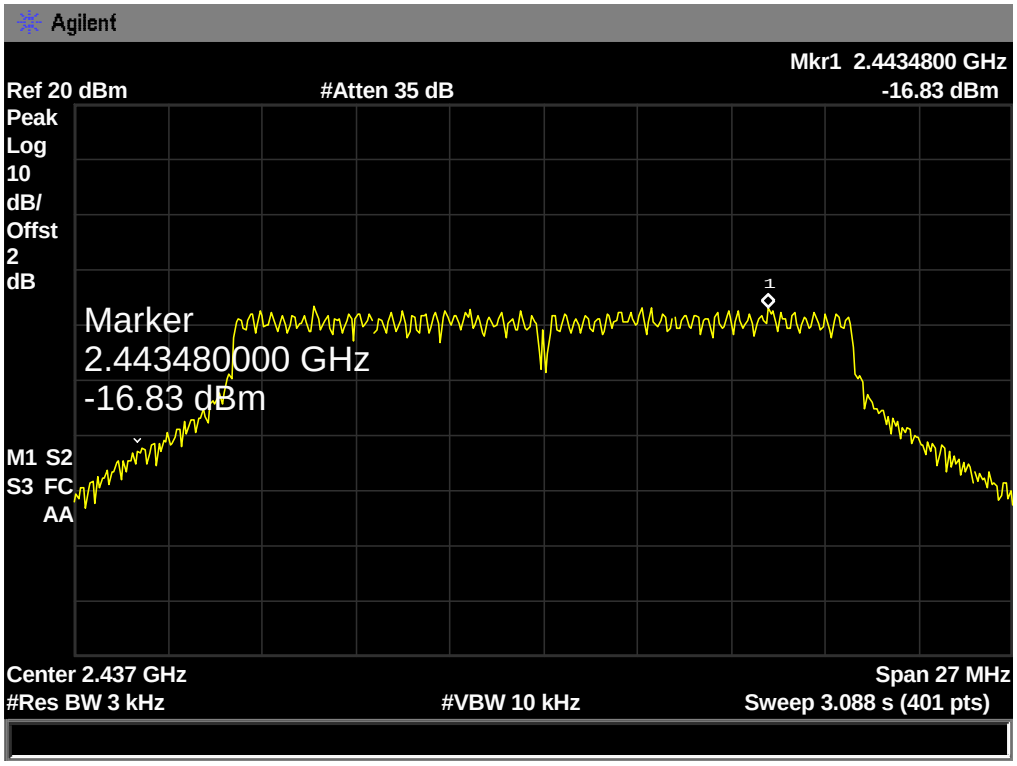
802.11N(HT20) Mode

2412 MHz



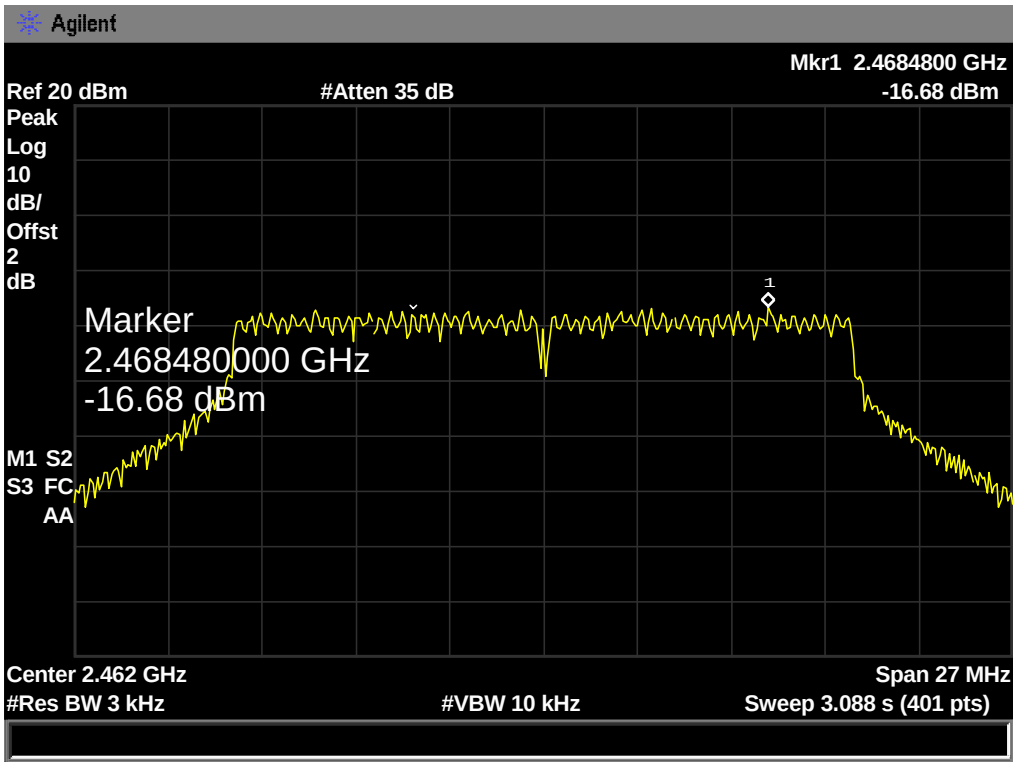
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz

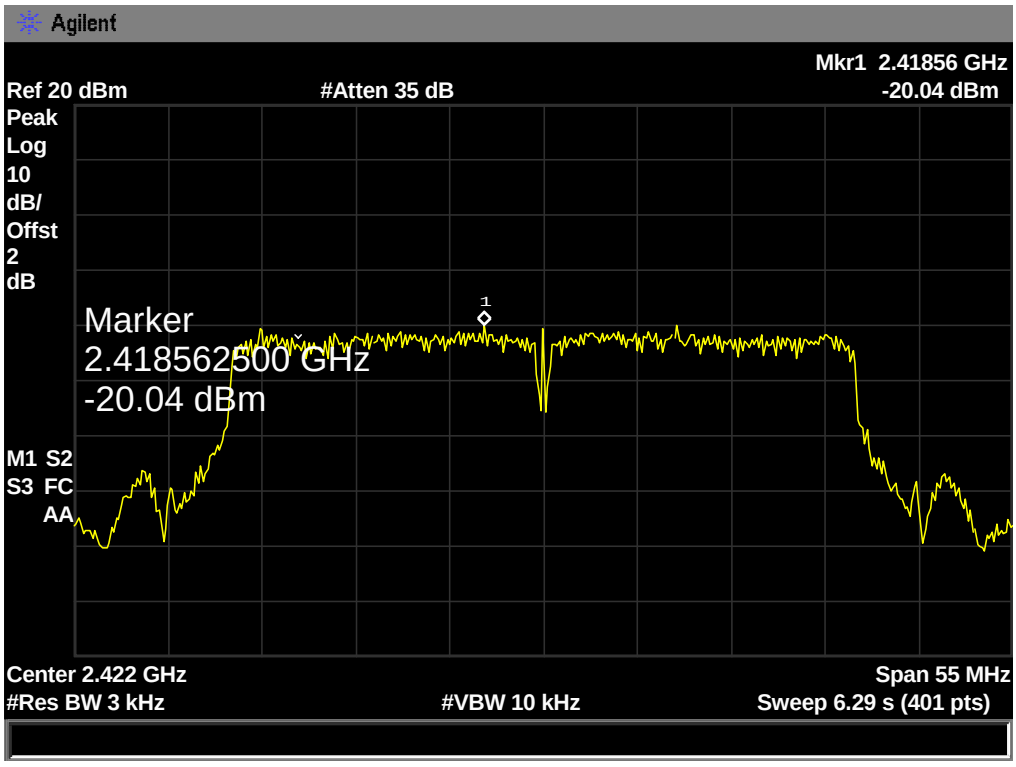


EUT:	32"IDISPLAY	Model Name :	UIT232B-B06
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 802.11N(HT40) Mode		

Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)
2422	-20.04	8
2437	-18.01	
2452	-19.87	

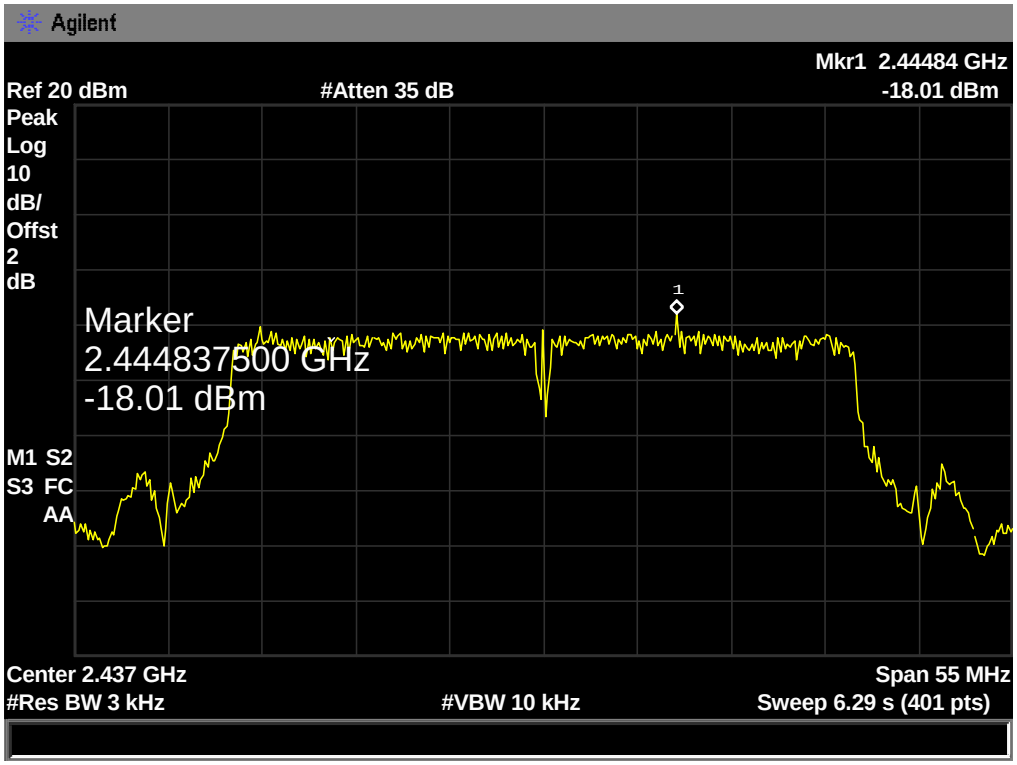
802.11N(HT40) Mode

2422 MHz



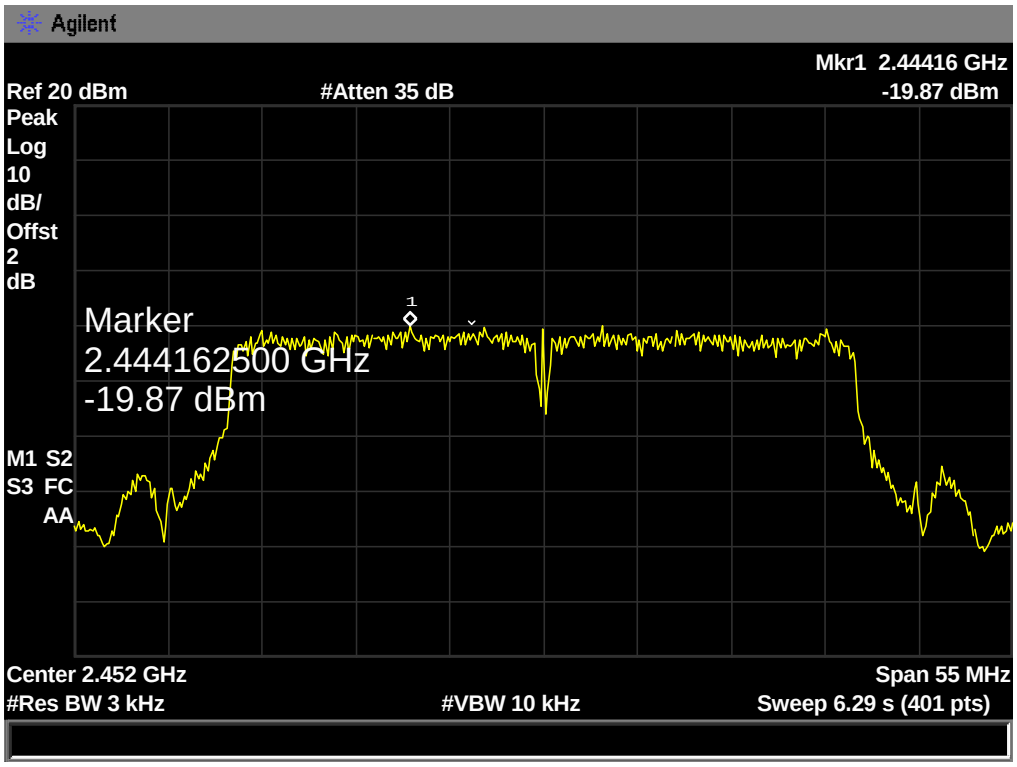
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 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 shall be considered sufficient to comply with the provisions of this Section. 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.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2.12 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

The EUT antenna is an Embedded Antenna. It complies with the standard requirement.

Antenna Type
☑ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna