



Report No.: FCC2006232-01 File Reference No.: 2020-07-20

Applicant: Chauvet & Sons, LLC.

Product: DFI

Model No.: DFI XLR TX

Brand Name: N/A

Test Standards: FCC Part 15.249

Test Result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: July 20, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2020-07-20



Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Chauvet & Sons, LLC.

Address: 5200 NW 108th Ave, Sunrise, FL 33351

Telephone: --Fax: --

1.3 Description of EUT

Product: DFI

Manufacturer: Chauvet & Sons, LLC.

Address: 5200 NW 108th Ave, Sunrise, FL 33351

Brand Name: N/A

Model Number: DFI XLR TX

Additional Model Name N/A
Input Voltage: DC3.3V
Modulation Type: GFSK

Operation Frequency 2433-2480.99MHz

Channel List:

Channel	1	2	3	4	5	6	7	8
Frequency (MHz)	2433	2436.2	2439.4	2442.6	2445.8	2449.0	2452.2	2455.39
Channel	9	10	11	12	13	14	15	16
Frequency (MHz)	2458.59	2461.79	2465.99	2468.19	2471.39	2474.59	2477.79	2480.99

Antenna Designation Integral antenna with gain 3.0 dBi Max (from the antenna specification provided the applicant)

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1.4 Submitted Sample

2 Samples

1.5 Test Duration

2020-06-17 to 2020-07-20

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty =3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Ultra Broadband ANT	R&S	HL562	100157	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249, ANSI C63.4:2014 and ANSI C63.10:2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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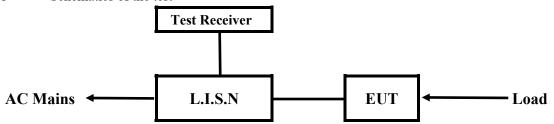
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

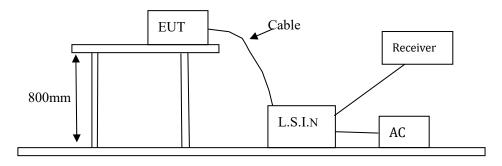


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
DFI	Chauvet & Sons, LLC.	DFI XLR TX	XAO-DFI

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B. Internal Device

Device	Manufacturer	Model	FCC ID/SDOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000EU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC3.3V, 2000mA

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Engage av (MHz)	Limits (dBμV)
Frequency(MHz)	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results: Pass

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

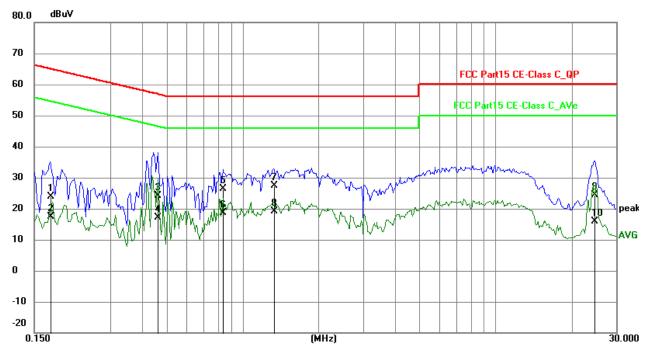
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	14.22	9.77	23.99	64.80	-40.81	QP	Р
2	0.1734	7.50	9.77	17.27	54.80	-37.53	AVG	Р
3	0.4620	14.30	9.77	24.07	56.66	-32.59	QP	Р
4	0.4620	7.48	9.77	17.25	46.66	-29.41	AVG	Р
5	0.8364	16.58	9.78	26.36	56.00	-29.64	QP	Р
6	0.8364	8.84	9.78	18.62	46.00	-27.38	AVG	Р
7	1.3239	17.51	9.79	27.30	56.00	-28.70	QP	Р
8	1.3239	9.37	9.79	19.16	46.00	-26.84	AVG	Р
9	24.6528	13.46	10.97	24.43	60.00	-35.57	QP	Р
10	24.6528	5.00	10.97	15.97	50.00	-34.03	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

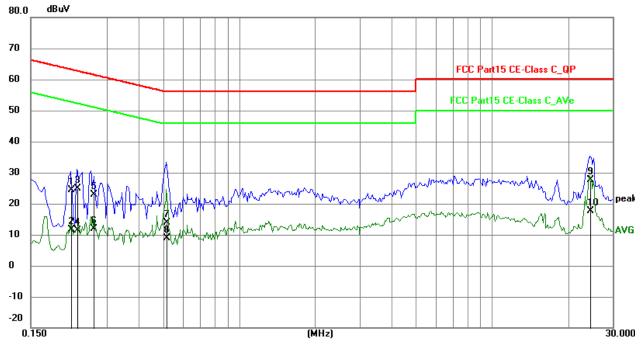
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2163	14.51	9.75	24.26	62.96	-38.70	QP	Р
2	0.2163	1.95	9.75	11.70	52.96	-41.26	AVG	Р
3	0.2280	15.10	9.75	24.85	62.52	-37.67	QP	Р
4	0.2280	1.68	9.75	11.43	52.52	-41.09	AVG	Р
5	0.2670	13.10	9.75	22.85	61.21	-38.36	QP	Р
6	0.2670	2.23	9.75	11.98	51.21	-39.23	AVG	Р
7	0.5166	4.16	9.77	13.93	56.00	-42.07	QP	Р
8	0.5166	-0.90	9.77	8.87	46.00	-37.13	AVG	Р
9	24.4344	16.72	10.95	27.67	60.00	-32.33	QP	Р
10	24.4344	6.59	10.95	17.54	50.00	-32.46	AVG	Р

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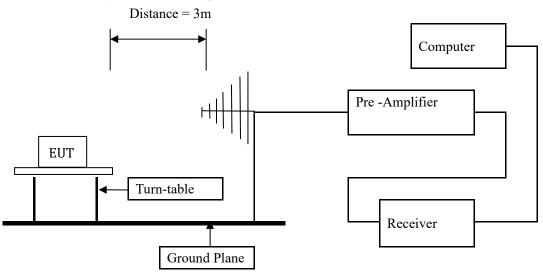
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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



- 6.2 Configuration of The EUT
 Same as section 5.3 of this report
- 6.3 EUT Operating Condition
 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dBμV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. For radiated emissions below 30MHz and above 18GHz, it was the floor noise.

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data A

Product:	DFI	Test Mode:	Keep transmitting-Low Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.3V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	nission PK/AV Horiz / Limits PK/AV		Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2433	86.16 (PK)	Н	114/94	-7.84
2433	81.29 (PK)	V	114/94	-12.71
4866	47.97 (PK)	Н	74/54	-6.03
4866	47.51 (PK)	V	74/54	-6.49
7299		H/V	74/54	
9732	32 H/V		74/54	
12165		H/V	74/54	
14598		H/V	74/54	
17031		H/V	74/54	
19464		H/V	74/54	
21897		H/V	74/54	
24330		H/V	74/54	

Note:

- (1) PK= Peak, AV= Average
- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	DFI	Test Mode:	Keep transmitting-Middle Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.3V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2455.39	85.58 (PK)	Н	114/94	-9.38
2455.39	77.73 (PK)	V	114/94	-16.27
4910.78	45.98 (PK)	Н	74/54	-8.02
4910.78	46.00 (PK)	V	74/54	-8.00
7366.17		H/V	74/54	
9821.56	1.56 H/V		74/54	
12276.95		H/V	74/54	
14732.34		H/V	74/54	
17187.73		H/V	74/54	
19643.12		H/V	74/54	
22098.51		H/V	74/54	
24553.9		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	DFI	Test Mode:	Keep transmitting-High Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC3.3V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480.99	81.99 (PK)	Н	114/94	-12.01
2480.99	78.97 (PK)	V	114/94	-15.03
4961.98	43.95 (PK)	Н	74/54	-10.05
4961.98	44.62 (PK)	V	74/54	-9.38
7442.97		Н	74/54	
7442.97		V	74/54	
9923.96		H/V	74/54	
12404.95		H/V	74/54	
14885.94		H/V	74/54	
17366.93		H/V	74/54	
19847.92		H/V	74/54	
22328.91		H/V	74/54	
24809.9		H/V	74/54	

Note: (1) PK= Peak, AV= Average

- (2) Emission Level = Reading Level + Antenna Factor + Cable Loss Pre-Amplifier
- (3)Margin=Emission-Limits
- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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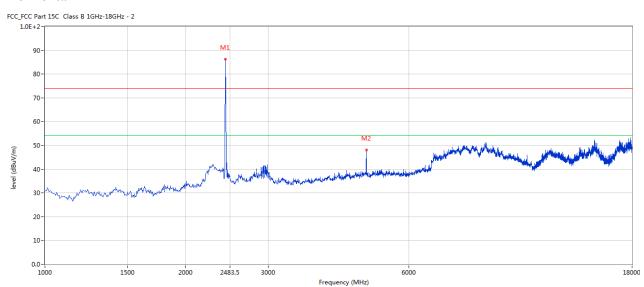
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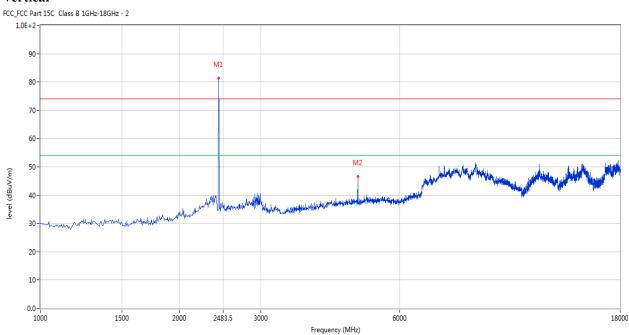


Please refer to the following test plots for details: Low Channel

Horizontal



Vertical



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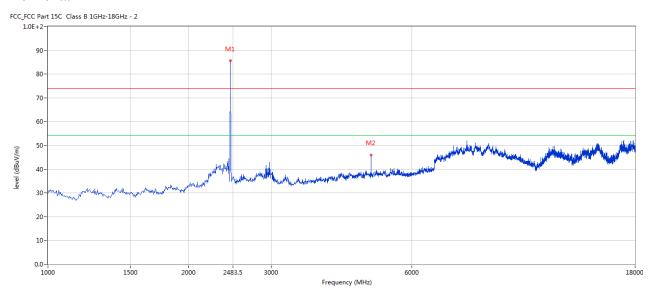
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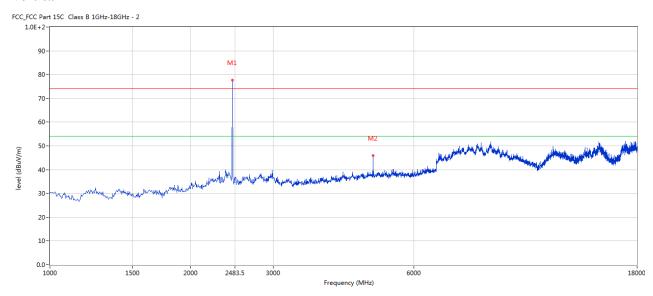


Please refer to the following test plots for details: Middle Channel

Horizontal



Vertical



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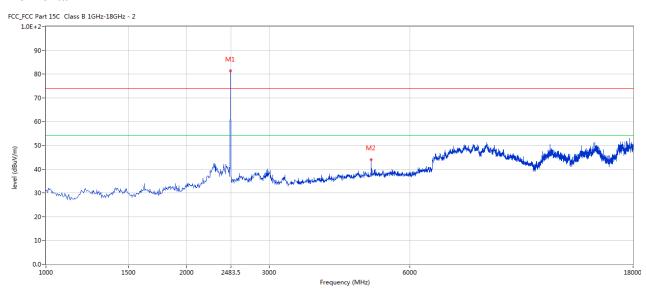
Report No.: FCC2006232-01

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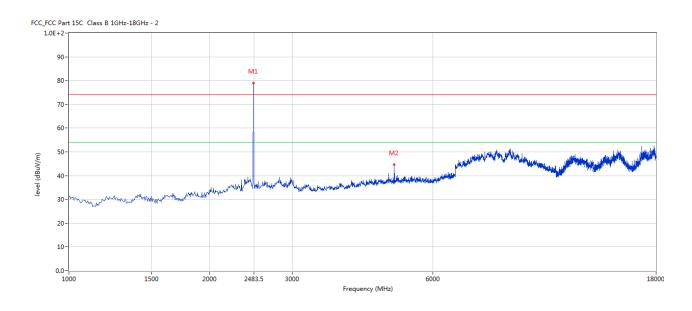


Please refer to the following test plots for details: High Channel

Horizontal



Vertical



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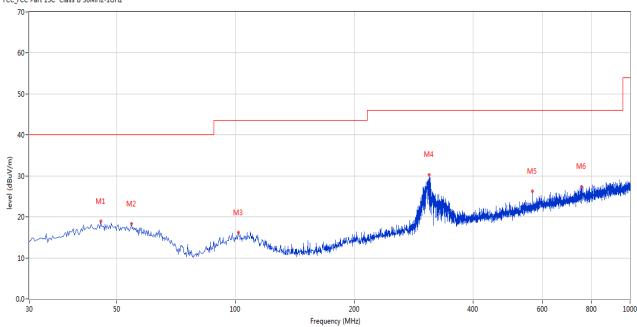
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	45.516	18.91	-11.39	40.0	-21.09	Peak	63.00	100	Н	Pass
2	54.486	18.29	-11.66	40.0	-21.71	Peak	57.00	100	Н	Pass
3	101.762	16.14	-13.43	43.5	-27.36	Peak	354.00	100	Н	Pass
4	309.775	30.32	-10.73	46.0	-15.68	Peak	0.00	100	Н	Pass
5	566.033	26.22	-5.99	46.0	-19.78	Peak	161.00	100	Н	Pass
6	752.712	27.36	-3.38	46.0	-18.64	Peak	207.00	100	Н	Pass

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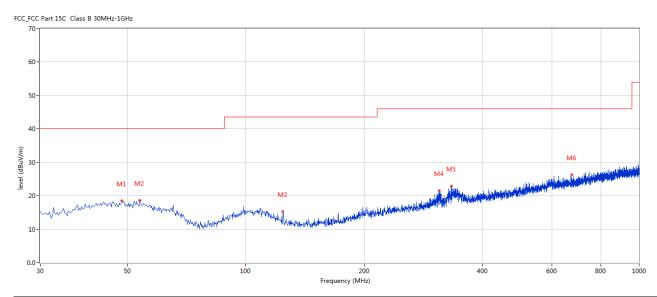


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	48.425	18.46	-11.22	40.0	-21.54	Peak	193.00	100	V	Pass
2	53.759	18.67	-11.53	40.0	-21.33	Peak	28.00	100	V	Pass
3	124.309	15.35	-16.14	43.5	-28.15	Peak	214.00	100	V	Pass
4	310.017	21.52	-10.70	46.0	-24.48	Peak	105.00	100	V	Pass
5	333.049	22.95	-10.08	46.0	-23.05	Peak	67.00	100	V	Pass
6	675.131	26.27	-4.37	46.0	-19.73	Peak	6.00	100	V	Pass

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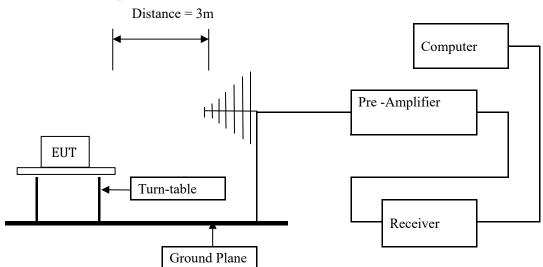


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz,VBW=3MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

Product:	DFI	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.3V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass									
FCC Part 15C Class B 1GHz-18GH	z - 2									
1.0E+2-										
90 -	2400MHz									
80-			\wedge							
70-										
60-										
50-										
40-11-11-11-11-11-1	A LOUIS AND A LOUI									
	Hope descripts stock to be transcript and to describe hope the destroy of transcripts of the contemporary with the contemporary of the contemporar	- Andrews Control of the Control of	THE MAN AND THE PROPERTY OF THE PARTY OF THE							
30-										
20-										
10-										
0.0-			245							
2530	Frequency (MU=)	243							

Note: The curve is PK curve, 2400MHz PK value is lower than AV limit

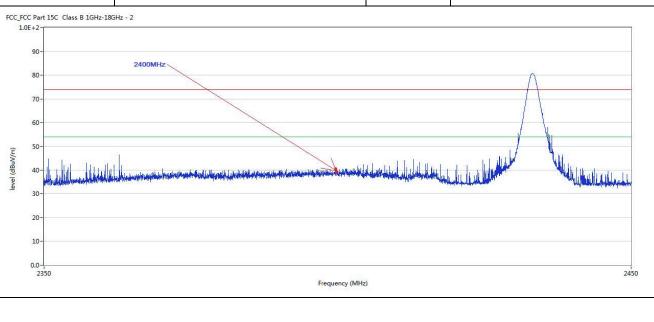
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Product:	DFI	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



Note: The curve is PK curve, 2400MHz PK value is lower than AV limit

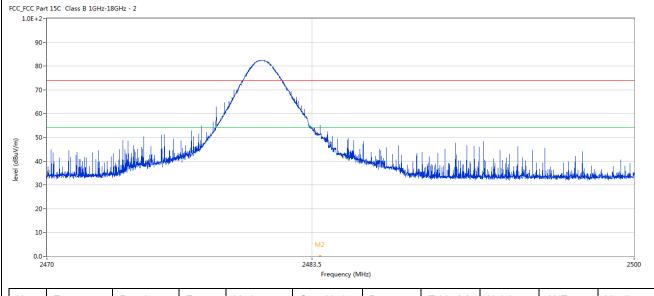
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Product:	DFI	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.3V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2**	2484.652	43.03	-3.57	54.0	-10.97	AV	181.00	100	Н	Pass
2	2484.652	55.32	-3.57	74.0	-18.68	Peak	181.00	100	Н	Pass

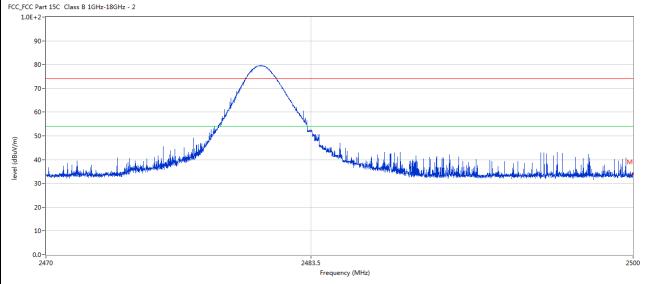
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Product:		DFI	Detector	Vertical
Mode	Keeping	g Transmitting	Test Voltage	DC3.3V
Temperature	24	l deg. C,	Humidity	56% RH
Test Result:		Pass		1
2483.5MHz	PK (dBμV/m)		Limit	$74 \ dB\mu V/m$
2483.5MHz	AV (dBμV/m)		Limit	54 dBμV/m



(MHz) (dBuV/m) (dB) (dBuV/m) Limit (dB) (cm) 2** 2483.507 39.50 -3.57 54.0 -14.50 AV 24.00 100 V	Verdict	ANT	Height	Table (o)	Detector	Over	Limit	Factor	Results	Frequency	No.
	ı		(cm)			Limit (dB)	(dBuV/m)	(dB)	(dBuV/m)	(MHz)	
0.000 507 50.04 0.57 74.0 0.00 5.1 0.400 400	Pass	V	100	24.00	AV	-14.50	54.0	-3.57	39.50	2483.507	2**
2 2483.507 52.61 -3.57 74.0 -21.39 Peak 24.00 100 V	Pass	V	100	24.00	Peak	-21.39	74.0	-3.57	52.61	2483.507	2

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8.0 Antenna Requirement

Applicable Standard

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.

This product has a Integral antenna. The antenna gain is 3.0Max. It fulfills the requirement of this section.

Test Result: Pass

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Product:	duct: DFI		Test Mode:	Keep transmitting		
Mode	Low Cha	nnel	Test Voltage			
Temperature	ture 24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
0dB Bandwidth	0.265M	Hz		-		
6)	Marker 1 [T	l ndB]	RBW 30 k	Hz RF Att	20 dB	
Ref Lvl	ndB 2	20.00 dB	VBW 100 k	Hz		
10 dBm	BW 264.5290	05812 kHz	SWT 5 m	s Unit	dBm	
10			v ₁	[T1] -:	2.29 dBm	
		1		2.43290	180 GHz	
0			ndF	20	0.00 dB	
			BW V _T	264.52905 [T1] -2	812 kHz 1.93 dBm	
-10				2.43283		
	~~~		$\nabla_{\mathbf{T}_{2}}$	-21	1.92 dBm	
-20				2.43308	016 GHz	
1MAX	W/			white white	1M	
-30				V	T UMM JAY	
-40						
-50						
-60						
-70						
-80						
-90						
	32949399 GHz	50 kHz	/	Span	500 kHz	

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Product:	DFI	Test Mode:	Keep transmitting	
Mode	Mode Middle Channel		DC3.3V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
0dB Bandwidth	0.260MHz			
Ref Lvl	Marker 1 [T1 ndB]  ndB 20.00 dB  BW 259.51903808 kHz	RBW 30 kHz VBW 100 kHz SWT 5 ms	RF Att 20 dB Unit dBm	
10		V1 [T]  ndH  BW  VT1 [		
-50				
-70				
-80				
	55343186 GHz 50 ki	Hz/	Span 500 kHz	

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Product:	DFI	Test Mode:	Keep transmitting	
Mode	High Channel	Test Voltage	DC3.3V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	0.261MHz			
Ref Lvl	Marker 1 [T1 ndB] ndB 20.00 dB	RBW 30 kHz VBW 100 kHz	RF Att 20 dB	
10 dBm	BW 260.52104208 kHz	SWT 5 ms	Unit dBm	
0		▼1 [T:	1] -4.66 dBm A 2.48098146 GHz 20.00 dB	
-10		BW ▼T: [1	260.52104208 kHz F1] -24.67 dBm 2.48080611 GHz	
-20 1MAX -30	LA ABONNANDO DE	\$\forall \( \forall \)	11] -24.95 dBm 12 2.48106663 GHZ 1MA	
-30			and all Amount	
-40				
-50				
-60				
-70				
-80				
		<hz <="" td=""><td>Span 500 kHz</td></hz>	Span 500 kHz	
Date: 16.3	JUL.2020 15:49:01			

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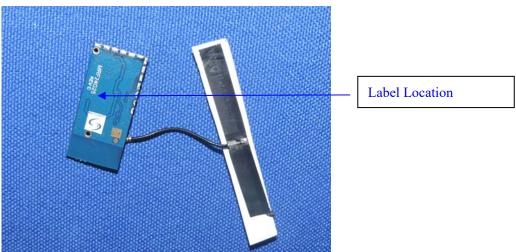


### 10.0 FCC ID Label

### FCC ID: XAO-DFI

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

### **Mark Location:**



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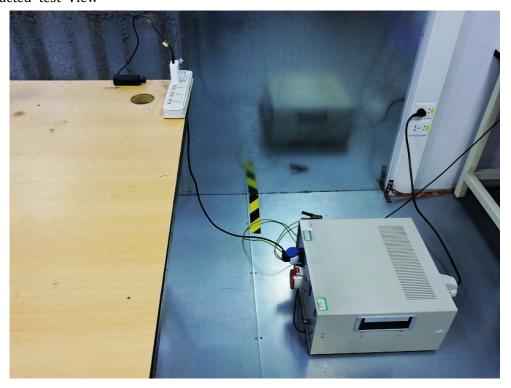
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# 11.0 Photo of testing

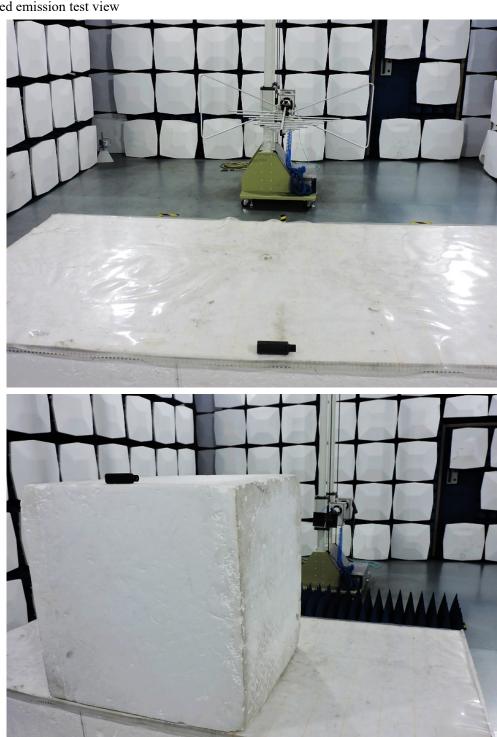
# 11.1 Conducted test View



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# 11.2 Radiated emission test view



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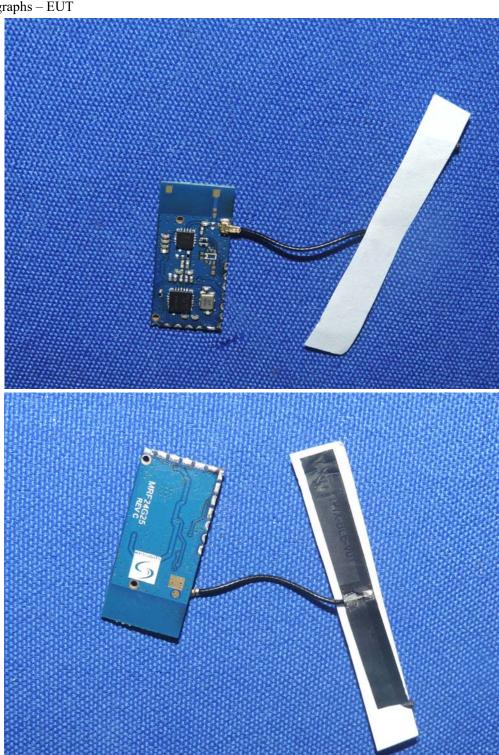
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# 11.3 Photographs – EUT



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Photographs-EUT



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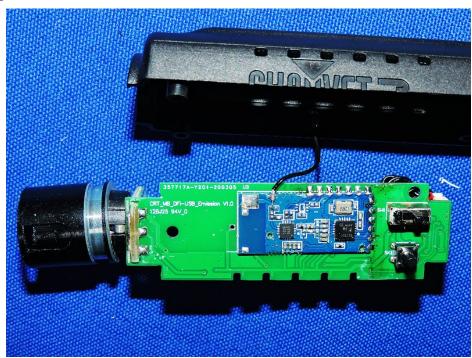
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### Host and EUT



### Host and EUT



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