

Application for FCC Certificate
On Behalf of

FUJITSU ISOTEC LIMITED

Dot Matrix Printer

Model Number: M33342A

FCC ID: KHZ021M33342A

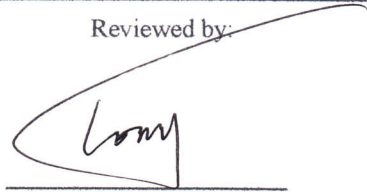
Prepared for:	FUJITSU ISOTEC LIMITED
	135 Higashi-Nozaki, Hobara-machi, Date-shi, Fukushima, 960-0695 JAPAN
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
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Report Number:	ESTE-F1802018
Date of Test:	January 08, 2018
Date of Report:	January 08-29, 2018

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EST Technology Co., Ltd.

Applicant:	FUJITSU ISOTEC LIMITED		
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Manufacturer	FUJITSU ISOTEC LIMITED		
Address:	135 Higashi-Nozaki, Hobara-machi, Date-shi, Fukushima, 960-0695 JAPAN		
Factory :	Jiangmen Dascom Computer Peripherals Co.,Ltd.		
Address:	No.399, Jin Xing Road, Jiang Hai District, Jiangmen City, Guang Dong Province, P.R. China		
E.U.T:	Dot Matrix Printer		
Model Number:	M33342A		
Additional Model:	DL3100		
Trade Name:	FUJITSU	Serial No.:	-----
Date of Receipt:	January 08, 2018	Date of Test:	January 08-15, 2018
Test Specification:	FCC Rules and Regulations Part 15 Subpart B:2017 ANSI C63.4:2014		
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart B requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Issue Date: January 15, 2018		
Prepared by:  _____ Ring / Assistant	Reviewed by:  _____ Tony / Engineer	Approved by:  _____ Iceman Hu / Manager	
Other Aspects:			
None.			
<i>Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested</i>			

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Refer to Technical Construction Form and User Manual.

1.2. Difference between Model Numbers

Note: DL3100 and M33342A (100-120Vac,50-60Hz,1.5A) are identical except model name only.

1.3. Independent Operation Modes

1.3.1. Conducted Modes

1	LPT Mode
2	USB Mode
3	COM Mode
4	LAN Mode

1.3.2. Radiated Modes

30MHz~1GHz	
1	LPT Mode
2	USB Mode
3	COM Mode
4	LAN Mode
Above 1GHz	
1	LPT Mode
2	USB Mode
3	COM Mode
4	LAN Mode

2. TEST SITES

2.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC Rules and Regulations Part 15 Subpart B:2017 ANSI C63.4:2014	15.107(a) Class B	PASS
		Minimum passing margin is 3.51dB at 0.15MHz	
Radiated Emission Test	FCC Rules and Regulations Part 15 Subpart B:2017 ANSI C63.4:2014	15.109(a) Class B	PASS
		Minimum passing margin is 4.22dB at 31.96MHz for 30-1000MHz; Minimum passing margin is 13.26dB at 3000MHz for above 1GHZ;	

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

 Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

 Certificated by FCC, USA
Designation Number: CN1215
Registration No.: 722932
Date of registration: November 21, 2017

 Certificated by Industry Canada
Registration No.: 9405A
Date of registration: December 03, 2015

 Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

 Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: February 07, 2015

 Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

 Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L2-64
Date of registration: April 28, 2011

 Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. List of Test and Measurement Instruments

2.3.1. For conducted emission at the mains terminals test (844 Room)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

2.3.2. For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	101780	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	37062	June 08,17	1 Year
Horn Antenna	SCHWARZBECK	BBHA9120D	8128-290	June 08,17	3 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A

Note: All calibration reports of the equipment were provided by CEPREI calibration and Test Center

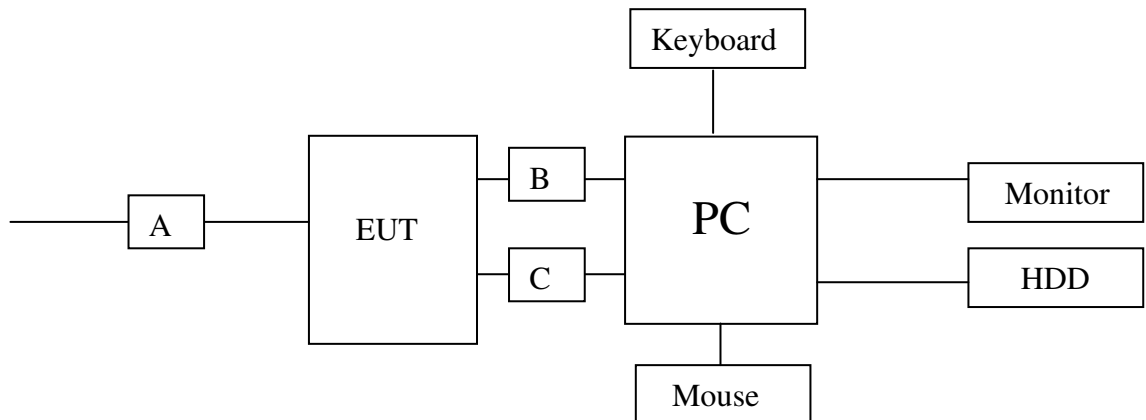
3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



(EUT: Dot Matrix Printer)

A	AC Line	Unshielded, Detachable 1.5m
B	USB Line	Unshielded, Detachable 1.5m
C	NET Line	Unshielded, Detachable 1.8m
	LPT Line	Shielded, Detachable 1.8m
	COM Line	Shielded Detachable 1.5m

3.3. Test Operation Mode and Test Software

Refer to Test Setup in clause 4.

3.4. Special Accessories and Auxiliary Equipment

3.4.1. PC

M / N	:	VOSTRO
Manufacturer	:	DELL
Power Cord	:	Unshielded, Detachable, 1.6m

3.4.2. Monitor

M / N	:	E1709W
S/N	:	CN-OMFRJF-64180-04U-OVPL
Manufacturer	:	DELL
Data Cable	:	Shielded, Undetachable, 1.6m

3.4.3. Mouse

M / N	:	MOL5VO
S / N	:	JOQ03RNT
Manufacturer	:	Dell
cable	:	Shielded, Undetachable, 1.5m

3.4.4. Keyboard

M / N	:	L100
S / N	:	CN-0RH656-65890-01M-070T
Manufacturer	:	Dell
cable	:	Shielded, Undetachable, 1.8m

3.4.5. HDD

M / N	:	A1446
Manufacturer	:	Apple
cable	:	Shielded, Undetachable, 1.0m

3.5. Countermeasures to Achieve EMC Compliance

None.

4. EMISSION TEST RESULTS

4.1. Conducted Emission at the Mains Terminals Test

RESULT : **Pass**
Test Procedure : ANSI C63.4:2014
Frequency Range : 0.15 to 30MHz
Test Site : Shielded Room
Limits : FCC Part 15:2017 Class B

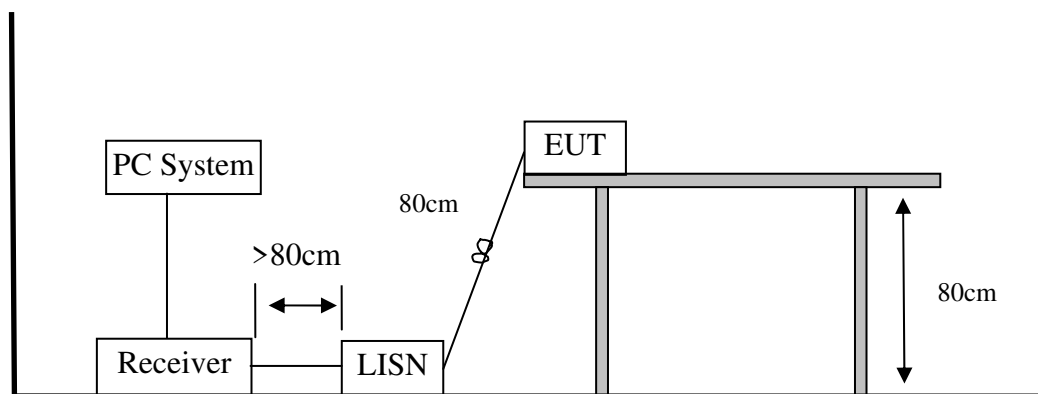
Test Setup

Date of Test : January 08, 2018
M/N : M33342A
Input Voltage : AC 120V/60Hz
Operation Mode : LPT Mode, USB Mode, COM Mode, LAN Mode

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

The test data of the worst case condition(s) was reported on the following page.



Note: Measurement Uncertainty: ± 3.48 dB at a level of confidence of 95%.

Test Data

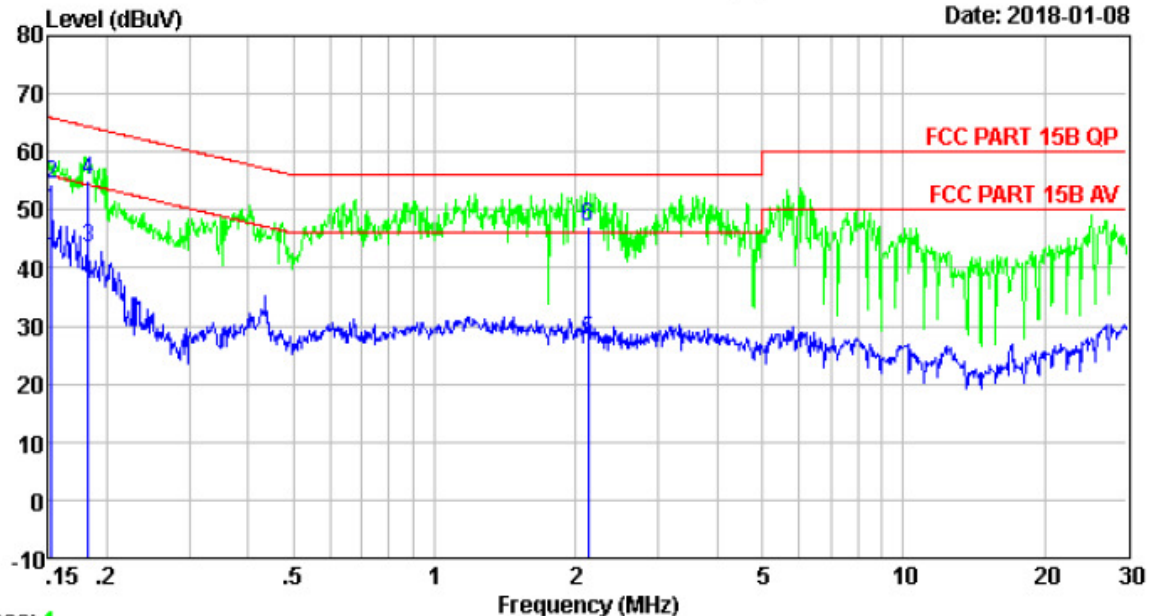
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Data: 2

File: \\EMC-CE-2\Test Data\2018\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 1

Site no : 2# Conduction Shield Room Data no. : 2
 Env. / Ins. : Temp:25.0℃ Humi:50% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LPT Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.66	0.04	40.03	49.73	55.87	6.14	Average
2	0.15	9.66	0.04	44.71	54.41	65.87	11.46	QP
3	0.18	9.67	0.04	33.68	43.39	54.37	10.98	Average
4	0.18	9.67	0.04	45.40	55.11	64.37	9.26	QP
5	2.12	9.82	0.06	17.78	27.66	46.00	18.34	Average
6	2.12	9.82	0.06	37.26	47.14	56.00	8.86	QP

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

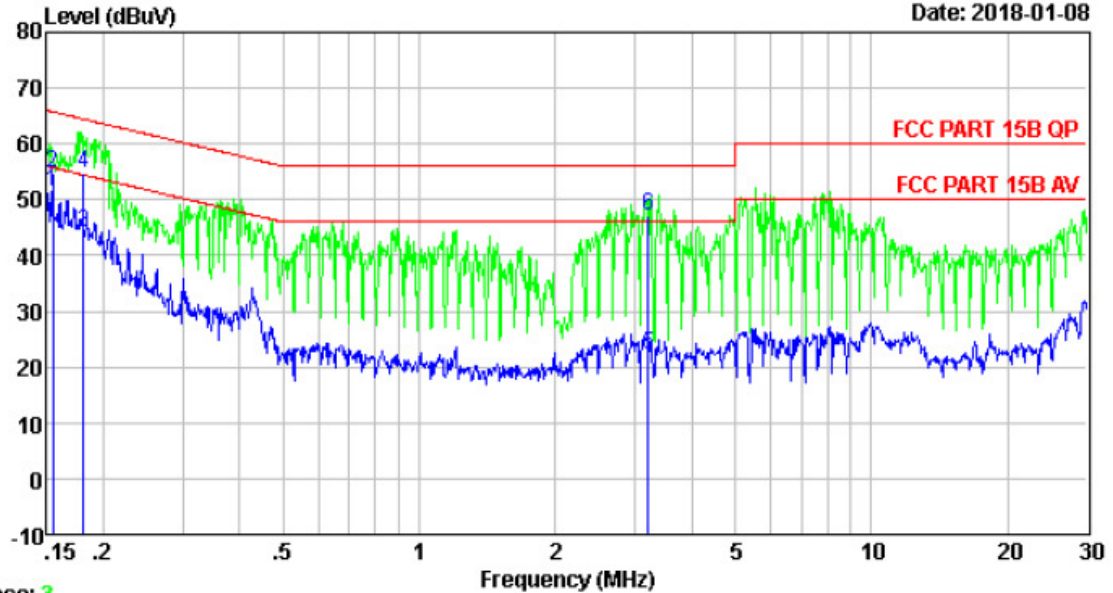
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Data: 4

File: \\EMC-CE-2\\Test Data\\2018\\D\\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 3

Site no : 2# Conduction Shield Room Data no. : 4
 Env. / Ins. : Temp:25.0℃ Humi:50% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LPT Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.64	0.04	41.89	51.57	55.74	4.17	Average
2	0.15	9.64	0.04	45.15	54.83	65.74	10.91	QP
3	0.18	9.66	0.04	34.54	44.24	54.46	10.22	Average
4	0.18	9.66	0.04	45.10	54.80	64.46	9.66	QP
5	3.21	9.87	0.07	12.30	22.24	46.00	23.76	Average
6	3.21	9.87	0.07	37.12	47.06	56.00	8.94	QP

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

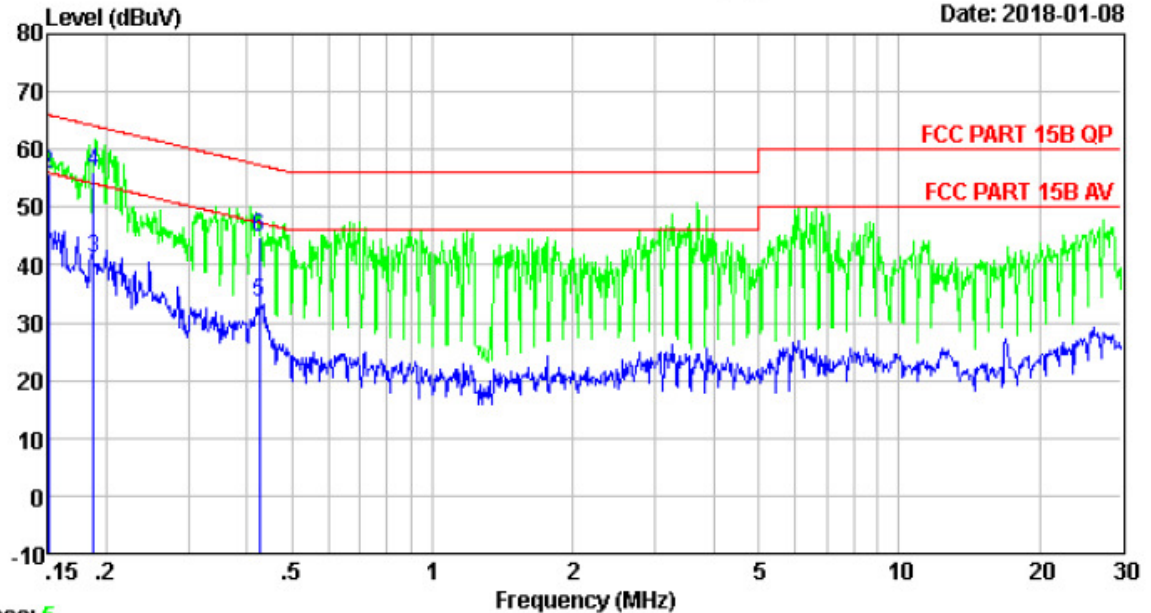
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Data: 6

File: \\EMC-CE-2\\Test Data\\2018\\D\\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 5

Site no : 2# Conduction Shield Room Data no. : 6
 Env. / Ins. : Temp:20.6°C Humi:51% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : USB Mode

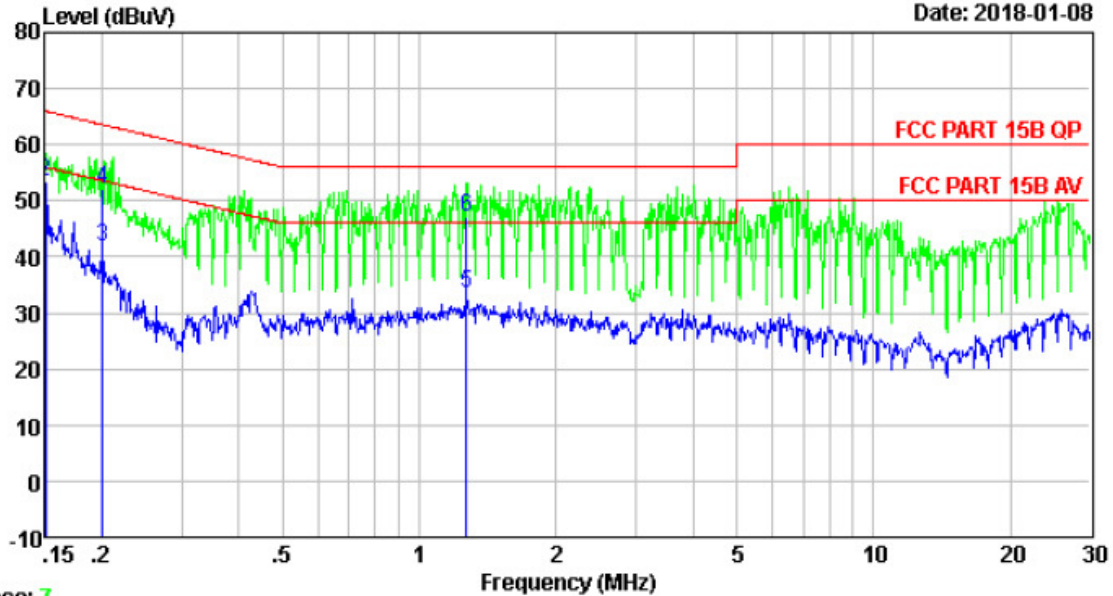
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.64	0.04	39.36	49.04	56.00	6.96	Average
2	0.15	9.64	0.04	46.14	55.82	66.00	10.18	QP
3	0.19	9.66	0.04	31.28	40.98	54.15	13.17	Average
4	0.19	9.66	0.04	46.25	55.95	64.15	8.20	QP
5	0.43	9.74	0.05	23.85	33.64	47.33	13.69	Average
6	0.43	9.74	0.05	35.11	44.90	57.33	12.43	QP

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

Data: 8

File: \\EMC-CE-2\\Test Data\\2018\\D\\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 7

Site no : 2# Conduction Shield Room Data no. : 8
 Env. / Ins. : Temp:20.6°C Humi:51% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : USB Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.66	0.04	40.95	50.65	56.00	5.35	Average
2	0.15	9.66	0.04	43.74	53.44	66.00	12.56	QP
3	0.20	9.67	0.04	32.19	41.90	53.58	11.68	Average
4	0.20	9.67	0.04	42.55	52.26	63.58	11.32	QP
5	1.27	9.80	0.06	23.77	33.63	46.00	12.37	Average
6	1.27	9.80	0.06	37.15	47.01	56.00	8.99	QP

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

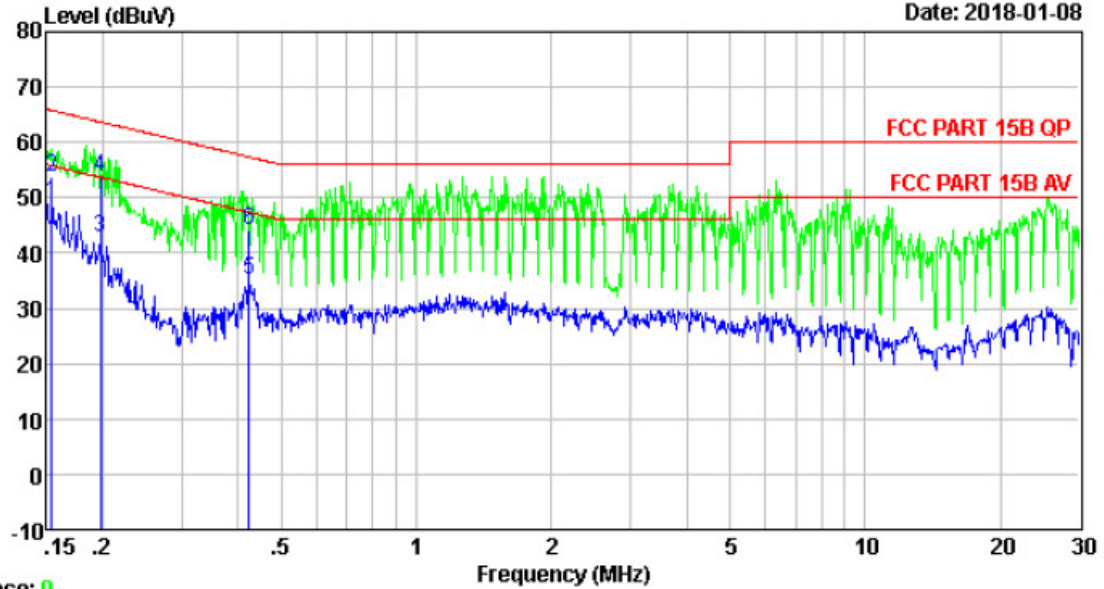
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Data: 10

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Date: 2018-01-08



Trace: 9

Site no : 2# Conduction Shield Room Data no. : 10
Env. / Ins. : Temp:20.6℃ Humi:51% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Sid
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : COM Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.66	0.04	39.58	49.28	55.78	6.50	Average
2	0.15	9.66	0.04	44.12	53.82	65.78	11.96	QP
3	0.20	9.67	0.04	33.04	42.75	53.71	10.96	Average
4	0.20	9.67	0.04	44.12	53.83	63.71	9.88	QP
5	0.42	9.74	0.05	25.41	35.20	47.37	12.17	Average
6	0.42	9.74	0.05	34.25	44.04	57.37	13.33	QP

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

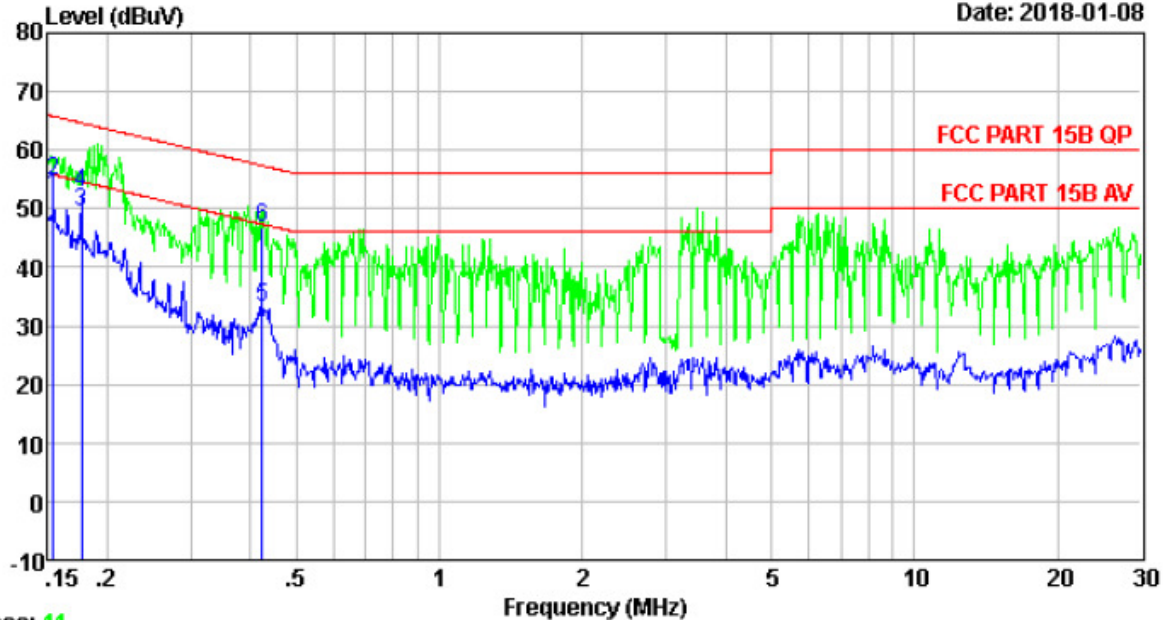
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Data: 12

File: \\EMC-CE-2\Test Data\2018\D\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 11

Site no : 2# Conduction Shield Room Data no. : 12
 Env. / Ins. : Temp:20.6℃ Humi:51% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : COM Mode

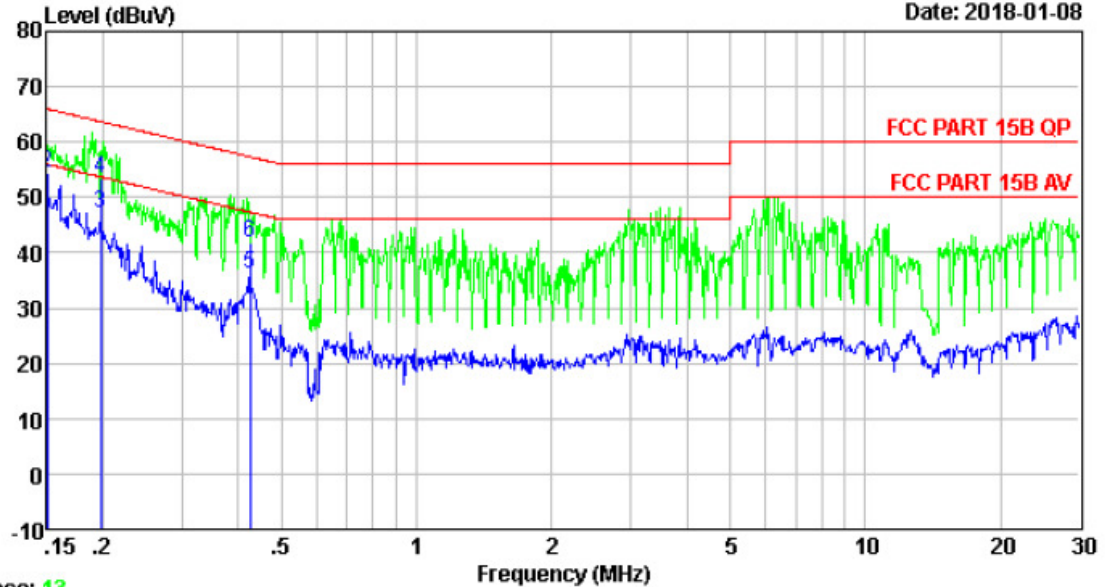
	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.64	0.04	42.35	52.03	55.78	3.75	Average
2	0.15	9.64	0.04	45.12	54.80	65.78	10.98	QP
3	0.18	9.66	0.04	39.73	49.43	54.64	5.21	Average
4	0.18	9.66	0.04	43.12	52.82	64.64	11.82	QP
5	0.42	9.74	0.05	23.51	33.30	47.37	14.07	Average
6	0.42	9.74	0.05	37.11	46.90	57.37	10.47	QP

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

Data: 14

File: \\EMC-CE-2\Test Data\2018\1\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 13

Site no : 2# Conduction Shield Room Data no. : 14
 Env. / Ins. : Temp:20.6℃ Humi:51% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LAN Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.64	0.04	42.79	52.47	56.00	3.53	Average
2	0.15	9.64	0.04	44.77	54.45	66.00	11.55	QP
3	0.20	9.66	0.04	37.49	47.19	53.71	6.52	Average
4	0.20	9.66	0.04	43.74	53.44	63.71	10.27	QP
5	0.43	9.74	0.05	26.51	36.30	47.33	11.03	Average
6	0.43	9.74	0.05	32.12	41.91	57.33	15.42	QP

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

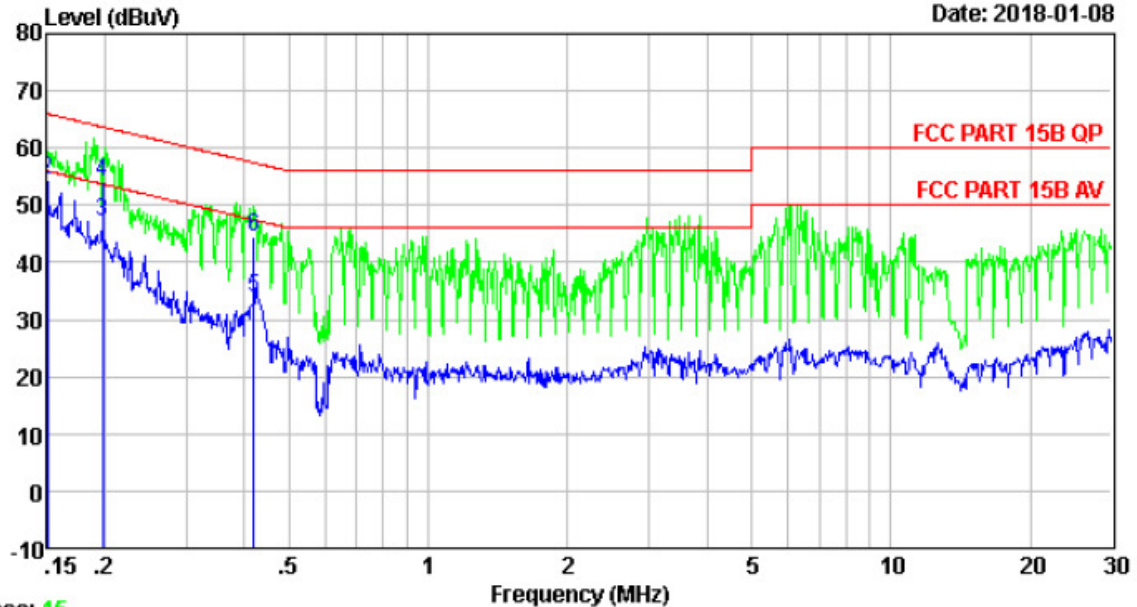
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Data: 16

File: \\EMC-CE-2\\Test Data\\2018\\D\\Dascom.EM6 (58)

Date: 2018-01-08



Trace: 15

Site no : 2# Conduction Shield Room Data no. : 16
 Env. / Ins. : Temp:20.6℃ Humi:51% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LAN Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.66	0.04	42.79	52.49	56.00	3.51	Average
2	0.15	9.66	0.04	44.74	54.44	66.00	11.56	QP
3	0.20	9.67	0.04	37.49	47.20	53.71	6.51	Average
4	0.20	9.67	0.04	44.26	53.97	63.71	9.74	QP
5	0.42	9.74	0.05	23.93	33.72	47.46	13.74	Average
6	0.42	9.74	0.05	34.70	44.49	57.46	12.97	QP

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

4.2. Radiated Emission Test

RESULT : **Pass**
Test Procedure : ANSI C63.4:2014
Frequency Range : 30-1000 MHz;1-6 GHz
Test Site : 966 Chamber
Limits : FCC Part 15:2017 Class B

Test Setup

Date of Test : January 09, 2018
M/N : M33342A
Input Voltage : AC 120V/60Hz
Operation Mode : LPT Mode, USB Mode, COM Mode, LAN Mode

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

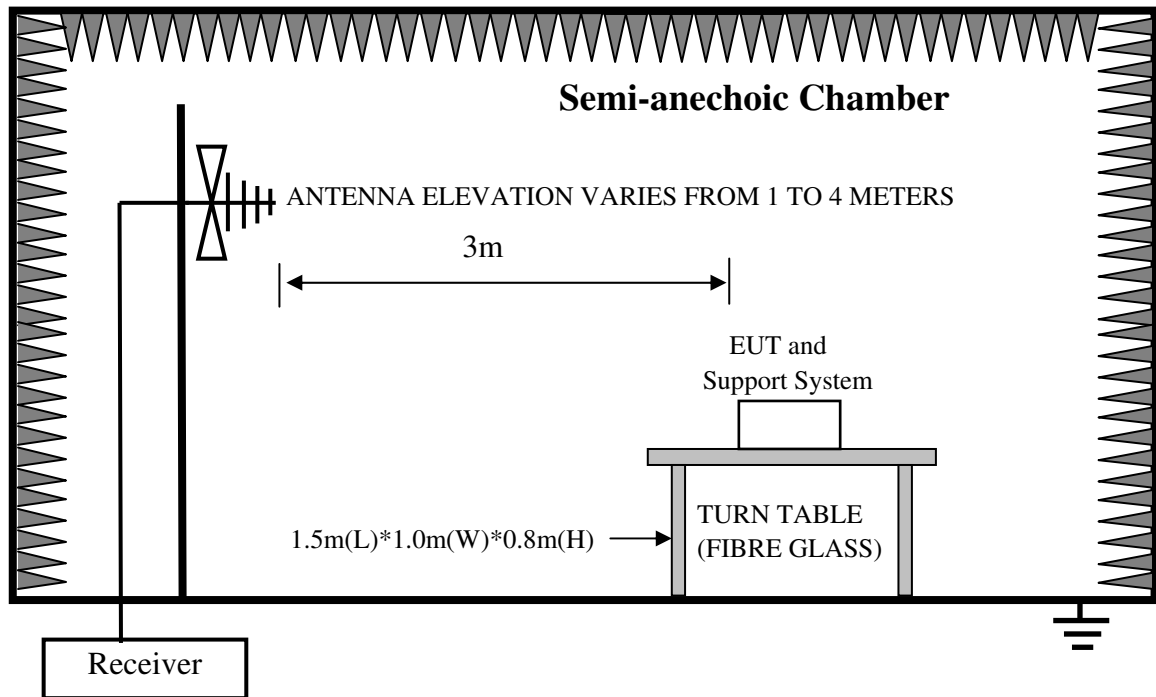
The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth setting on the test receiver was 120 kHz.

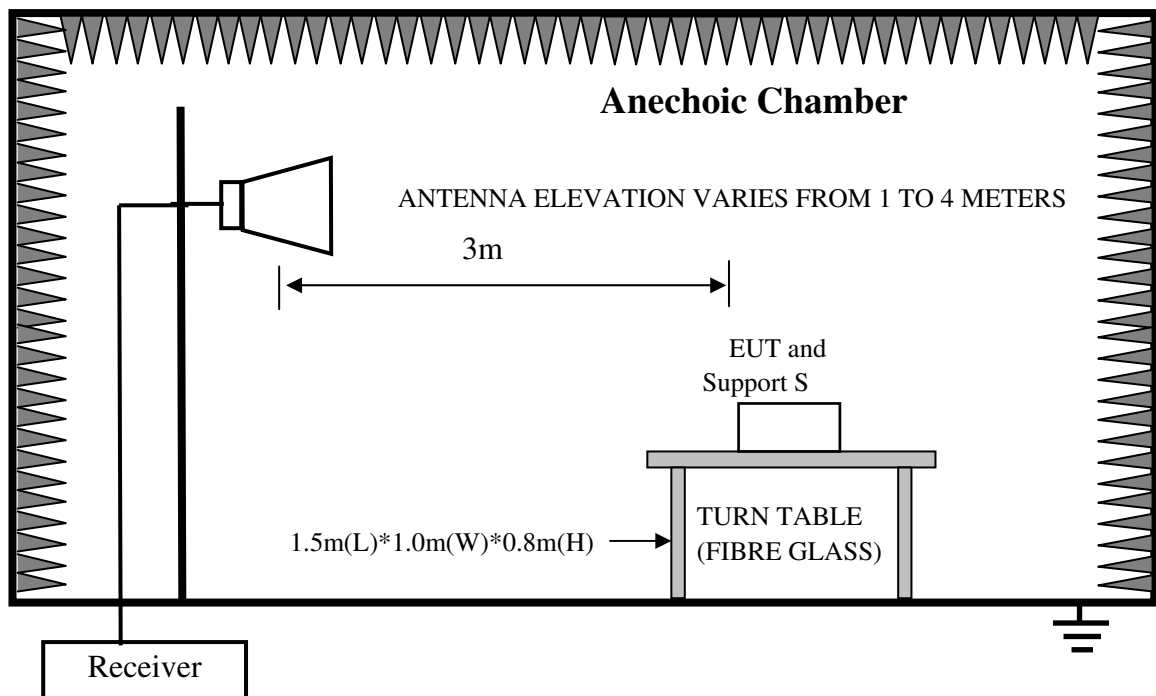
The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

The test data of the worst case condition(s) was reported on the following page.

1、 In Semi-anechoic Chamber Test Setup Diagram for 30MHz~1000MHz



2、 In Anechoic Chamber Test Setup Diagram for 1-6GHz



Note: Test uncertainty: ± 4.6 dB (H); ± 4.68 dB (V) at a level of confidence of 95% (30MHz ~ 1GHz); Test uncertainty: ± 4.96 dB at a level of confidence of 95% (Above 1GHz).

Test Data

30MHz-1GHz

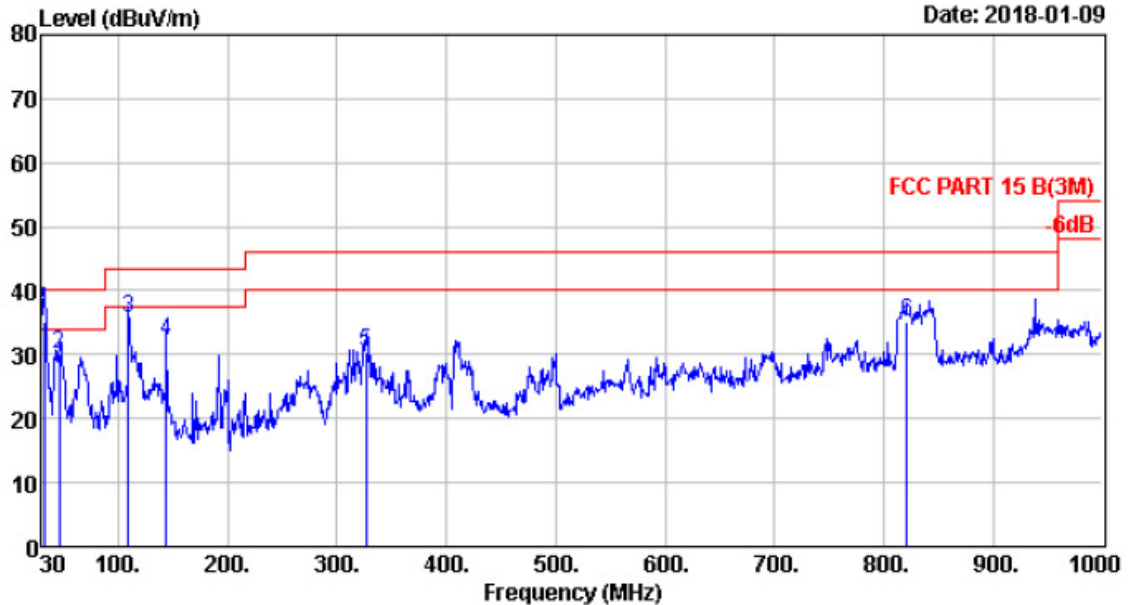
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Data: 1

File: \EMC-966-2\966-2 test data\2018\1\De Shi.EM6 (26)

Date: 2018-01-09



Site no. : 2# 966 chamber Data no. : 1
 Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.8'; Humi:60%; Press:101.52kPa
 Engineer : Hale
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LPT Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.430	17.44	0.22	17.40	35.06	40.00	4.94	QP
2	45.520	9.63	0.28	20.26	30.17	40.00	9.83	QP
3	109.540	10.90	0.86	23.81	35.57	43.50	7.93	QP
4	143.490	11.35	0.96	19.77	32.08	43.50	11.42	QP
5	326.820	14.09	1.69	14.62	30.40	46.00	15.60	QP
6	821.520	23.35	3.15	8.70	35.20	46.00	10.80	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

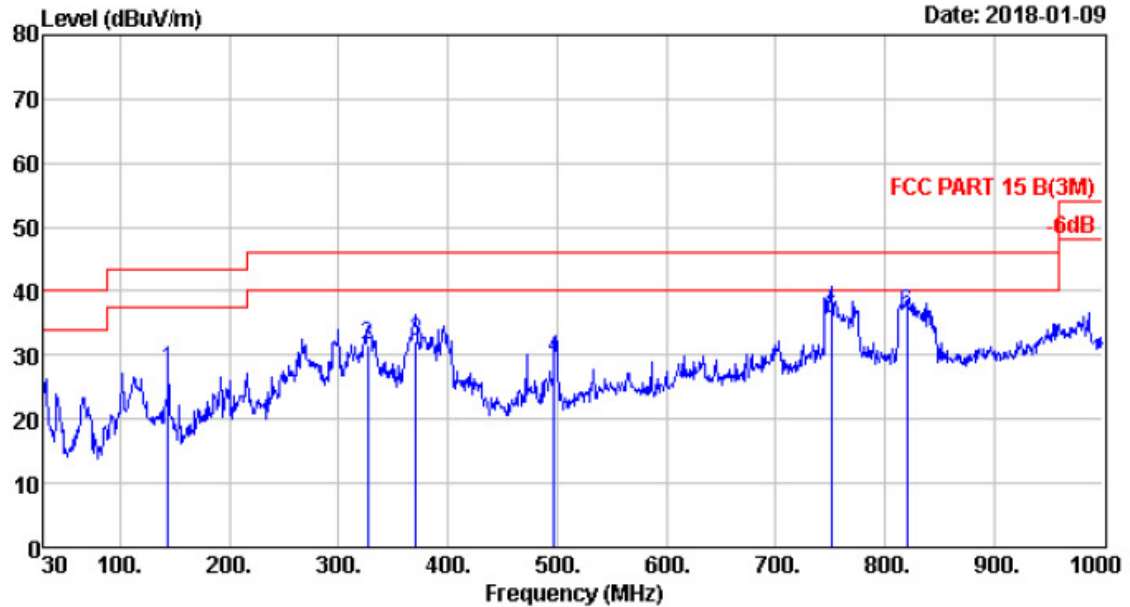
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Data: 2

File: \\EMC-966-2\\966-2 test data\\2018\\D\\De Shi.EM6 (26)

Date: 2018-01-09



Site no. : 2# 966 chamber Data no. : 2
Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
Engineer : Hale
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : LPT Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.490	11.35	0.96	15.43	27.74	43.50	15.76	QP
2	326.820	14.09	1.69	15.84	31.62	46.00	14.38	QP
3	370.470	15.51	1.88	14.78	32.17	46.00	13.83	QP
4	497.540	17.58	2.28	9.79	29.65	46.00	16.35	QP
5	750.710	22.80	3.12	9.90	35.82	46.00	10.18	QP
6	820.550	23.33	3.15	10.05	36.53	46.00	9.47	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

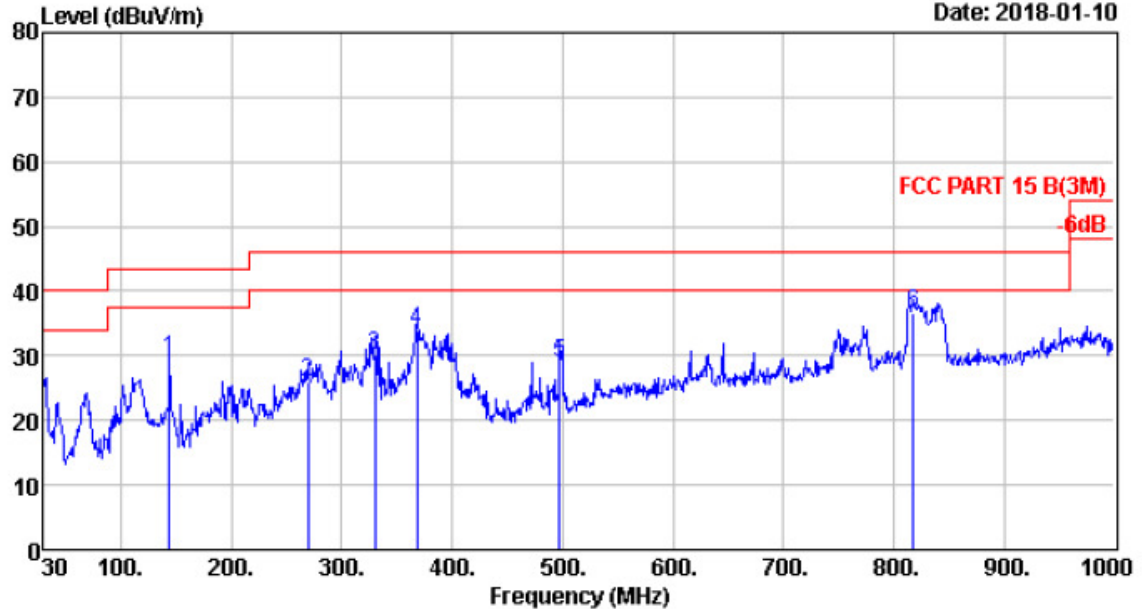
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Data: 3

File: \\EMC-966-2\966-2 test data\2018\D\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : 2# 966 chamber Data no. : 3
Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
Engineer : Hale
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : USB Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.490	11.35	0.96	17.26	29.57	43.50	13.93	QP
2	269.590	12.90	1.53	11.50	25.93	46.00	20.07	QP
3	329.730	14.16	1.70	14.11	29.97	46.00	16.03	QP
4	368.530	15.42	1.87	16.56	33.85	46.00	12.15	QP
5	497.540	17.58	2.28	9.20	29.06	46.00	16.94	QP
6	817.640	23.28	3.16	10.11	36.55	46.00	9.45	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

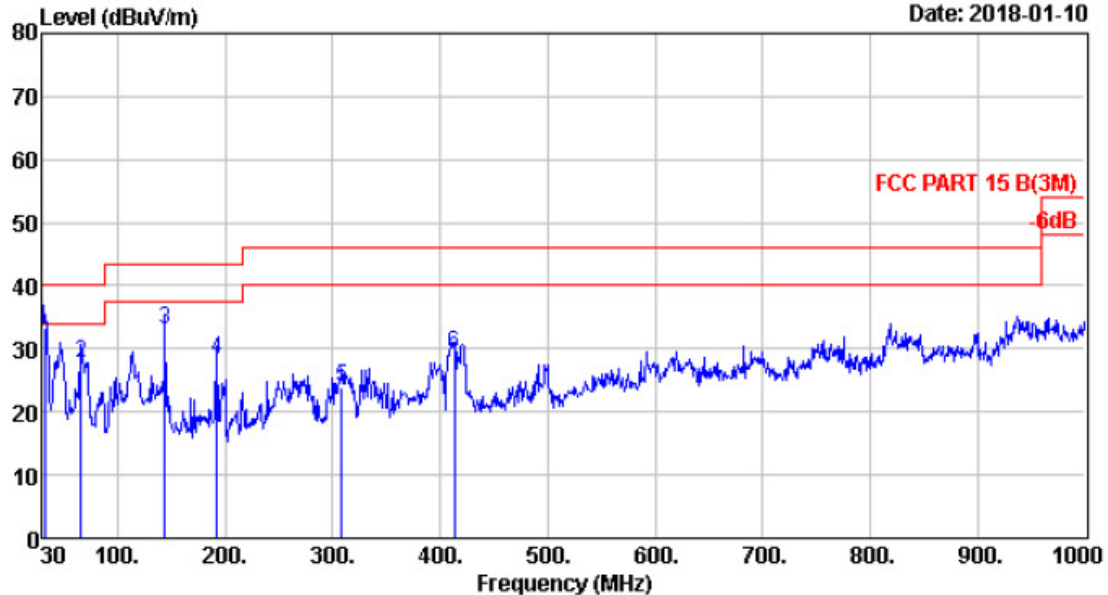
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Data: 4

File: \\EMC-966-2\966-2 test data\2018\1\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : 2# 966 chamber Data no. : 4
 Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.8'; Humi:60%; Press:101.52kPa
 Engineer : Hale
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : USB Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.940	17.96	0.22	15.22	33.40	40.00	6.60	QP
2	65.890	5.12	0.42	22.08	27.62	40.00	12.38	QP
3	143.490	11.35	0.96	20.85	33.16	43.50	10.34	QP
4	191.990	8.30	1.09	18.89	28.28	43.50	15.22	QP
5	308.390	13.69	1.63	8.59	23.91	46.00	22.09	QP
6	413.150	16.91	1.82	10.38	29.11	46.00	16.89	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

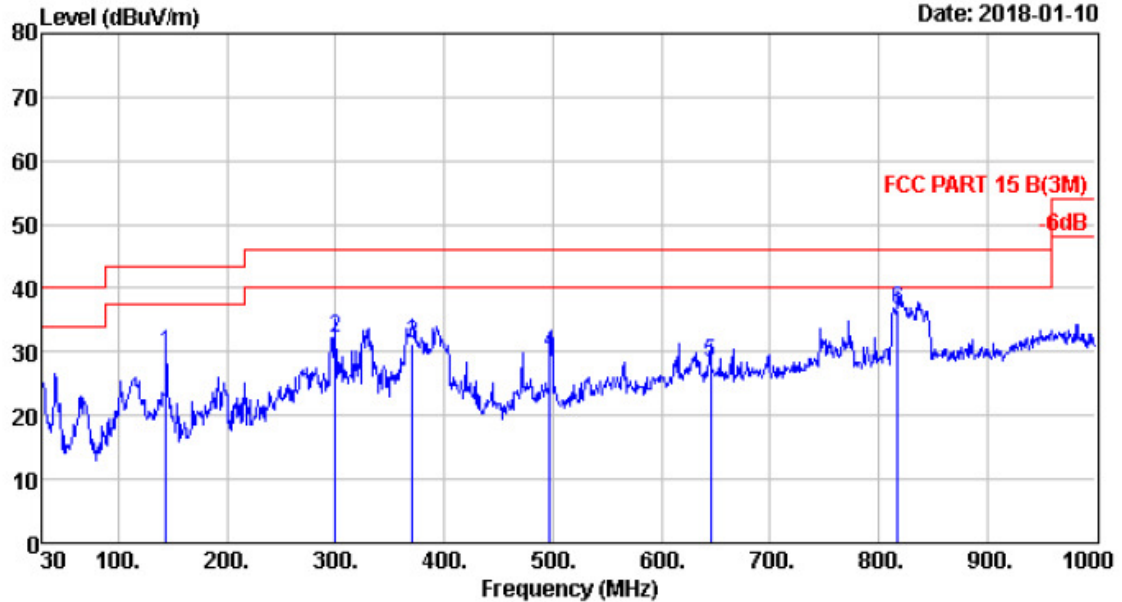
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Data: 5

File: \\EMC-966-2\\966-2 test data\\2018\\D\\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : site Data no. : 5
 Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
 Engineer : Hale
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : COM Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.490	11.35	0.96	17.53	29.84	43.50	13.66	QP
2	299.660	13.50	1.61	17.02	32.13	46.00	13.87	QP
3	370.470	15.51	1.88	13.84	31.23	46.00	14.77	QP
4	497.540	17.58	2.28	9.90	29.76	46.00	16.24	QP
5	644.980	20.93	2.72	4.74	28.39	46.00	17.61	QP
6	817.640	23.28	3.16	10.26	36.70	46.00	9.30	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

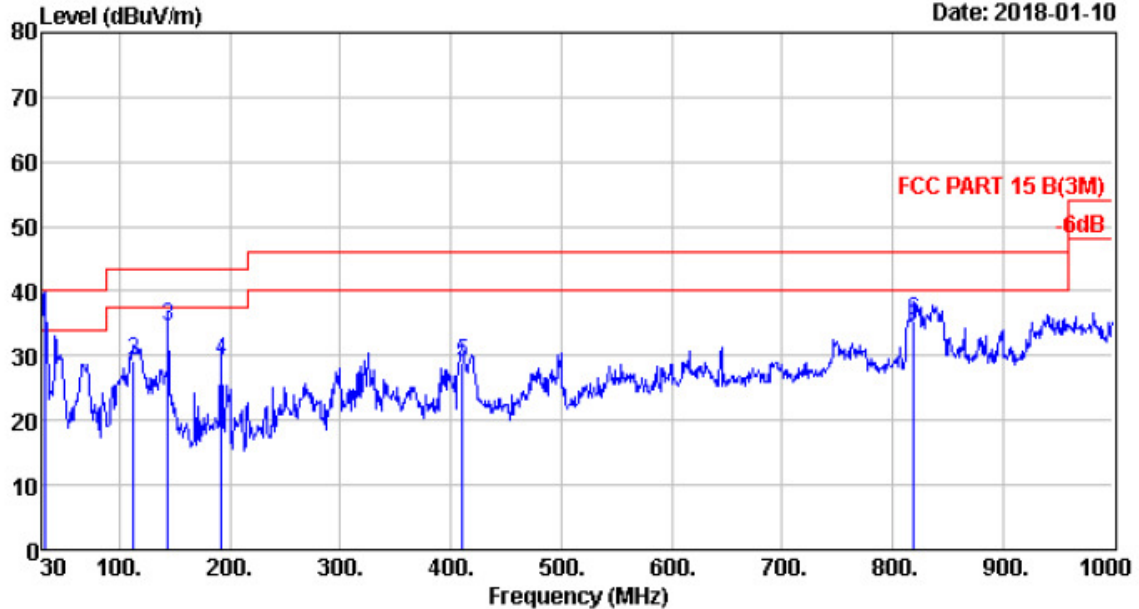
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Data: 6

File: \\EMC-966-2\\966-2 test data\\2018\\D\\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : 2# 966 chamber Data no. : 6
Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
Engineer : Hale
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : COM Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.960	17.96	0.22	17.60	35.78	40.00	4.22	QP
2	112.450	10.95	0.84	17.51	29.30	43.50	14.20	QP
3	143.490	11.35	0.96	22.21	34.52	43.50	8.98	QP
4	191.990	8.30	1.09	19.95	29.34	43.50	14.16	QP
5	410.240	16.88	1.79	10.29	28.96	46.00	17.04	QP
6	819.580	23.31	3.15	8.90	35.36	46.00	10.64	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

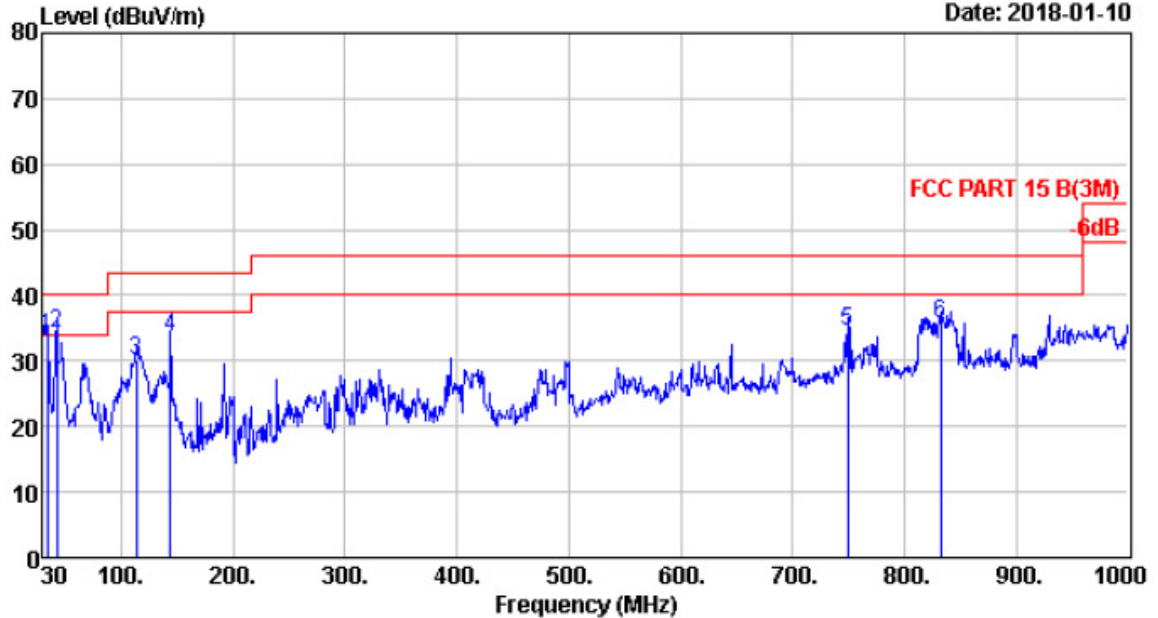
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Data: 7

File: \\EMC-966-2\\966-2 test data\\2018\\D\\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : 2# 966 chamber Data no. : 7
Dis. / Ant. : 3m 27090 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
Engineer : Hale
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : LAN Mode

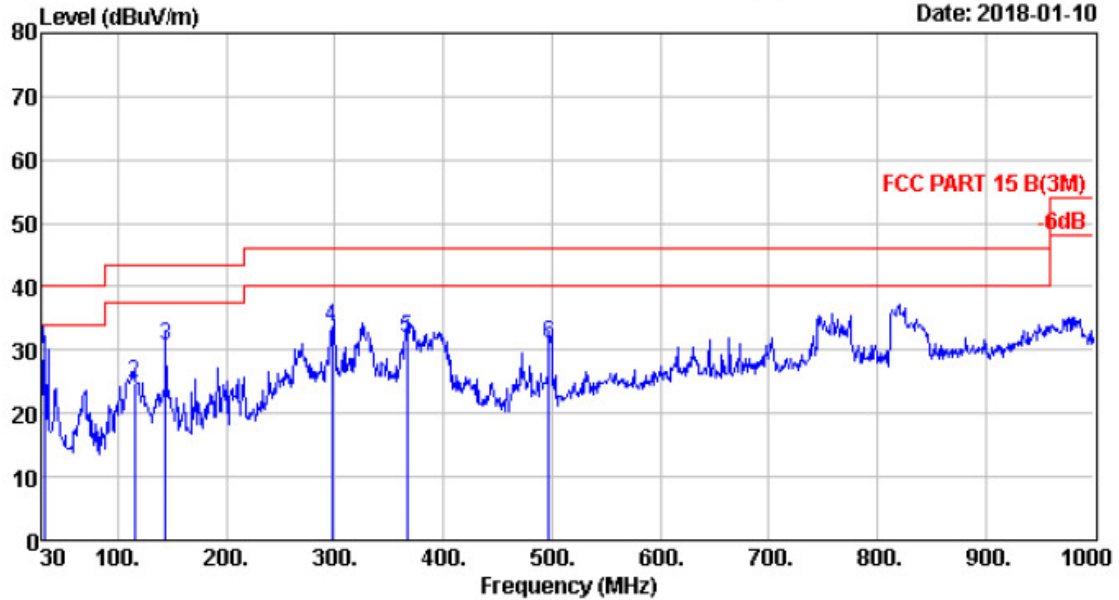
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	33.880	16.92	0.22	16.37	33.51	40.00	6.49	QP
2	42.610	11.30	0.25	22.68	34.23	40.00	5.77	QP
3	113.420	10.97	0.84	18.23	30.04	43.50	13.46	QP
4	143.490	11.35	0.96	21.28	33.59	43.50	9.91	QP
5	749.740	22.80	3.15	8.56	34.51	46.00	11.49	QP
6	832.190	23.52	3.16	8.93	35.61	46.00	10.39	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Data: 8

File: \\EMC-966-2\966-2 test data\2018\De Shi.EM6 (26)

Date: 2018-01-10



Site no. : 2# 966 chamber Data no. : 8
 Dis. / Ant. : 3m 27090 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:23.8';Humi:60%;Press:101.52kPa
 Engineer : Hale
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LAN Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.940	17.96	0.22	11.99	30.17	40.00	9.83	QP
2	115.360	11.01	0.82	12.88	24.71	43.50	18.79	QP
3	143.490	11.35	0.96	18.51	30.82	43.50	12.68	QP
4	296.750	13.41	1.60	18.58	33.59	46.00	12.41	QP
5	366.590	15.33	1.88	14.70	31.91	46.00	14.09	QP
6	497.540	17.58	2.28	11.07	30.93	46.00	15.07	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Above 1GHz

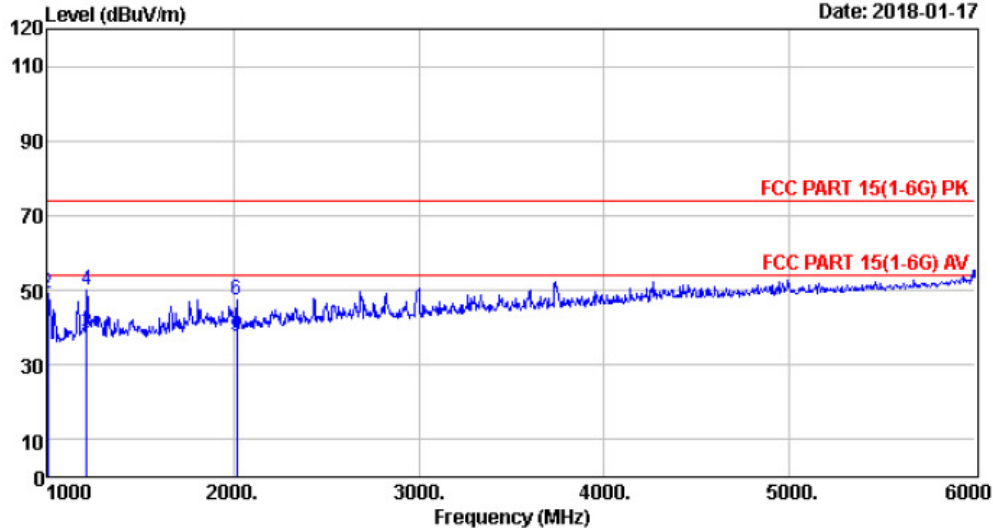
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Data: 60

File: \\EMC-966-1\test data\2018\EMC\01\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 60
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp:27.6'; Humi:50%; Press:101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : USB Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1000.000	24.60	2.10	12.16	38.86	54.00	15.14	Average
2	1000.000	24.60	2.10	22.41	49.11	74.00	24.89	Peak
3	1210.000	25.01	2.20	11.48	38.69	54.00	15.31	Average
4	1210.000	25.01	2.20	22.88	50.09	74.00	23.91	Peak
5	2020.000	26.44	2.96	8.11	37.51	54.00	16.49	Average
6	2020.000	26.44	2.96	17.91	47.31	74.00	26.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

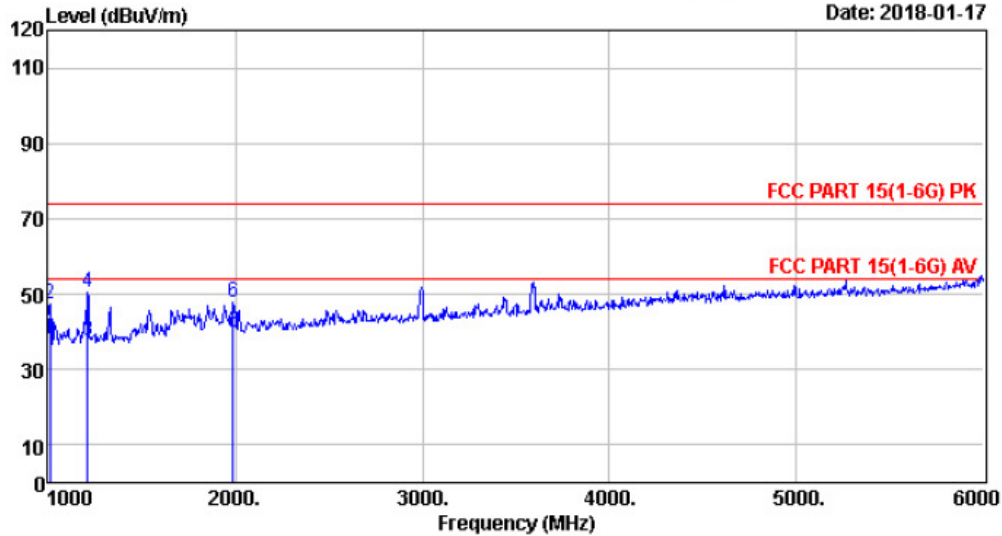
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Data: 61

File: \\EMC-966-1\\test data\\2018\\EMC\\D\\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 61
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp:27.6';Humi:50%;Press:101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : USB Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1010.000	24.63	2.10	11.16	37.89	54.00	16.11	Average
2	1010.000	24.63	2.10	20.74	47.47	74.00	26.53	Peak
3	1210.000	25.01	2.20	10.28	37.49	54.00	16.51	Average
4	1210.000	25.01	2.20	23.24	50.45	74.00	23.55	Peak
5	1990.000	26.37	2.92	10.77	40.06	54.00	13.94	Average
6	1990.000	26.37	2.92	18.70	47.99	74.00	26.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

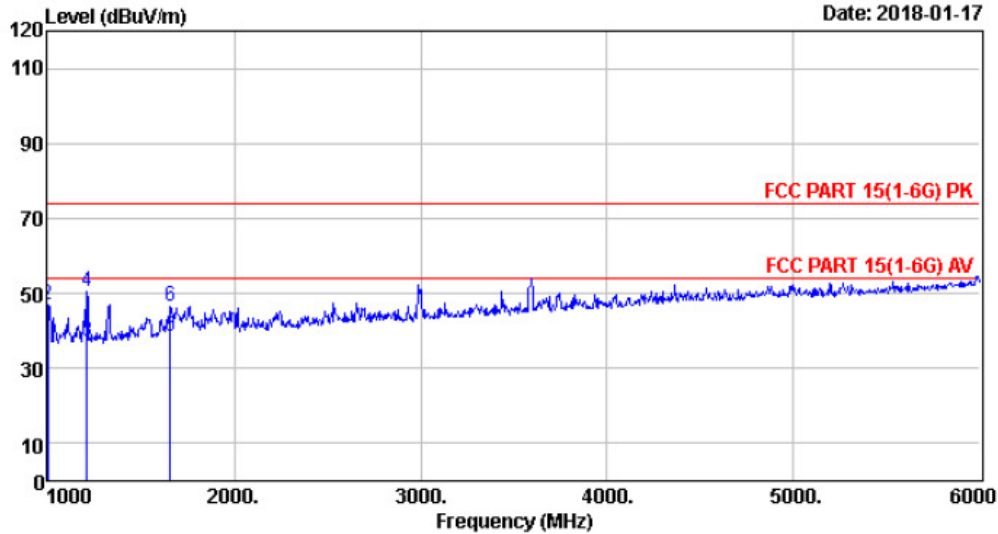
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Data: 62

File: \\EMC-966-1\\test data\\2018\\EMC\\D\\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 62
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp:27.6'; Humi:50%; Press:101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : COM Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1000.000	24.60	2.10	10.28	36.98	54.00	17.02	Average
2	1000.000	24.60	2.10	20.40	47.10	74.00	26.90	Peak
3	1210.000	25.01	2.20	10.16	37.37	54.00	16.63	Average
4	1210.000	25.01	2.20	23.20	50.41	74.00	23.59	Peak
5	1660.000	25.87	2.66	10.14	38.67	54.00	15.33	Average
6	1660.000	25.87	2.66	18.14	46.67	74.00	27.33	Peak

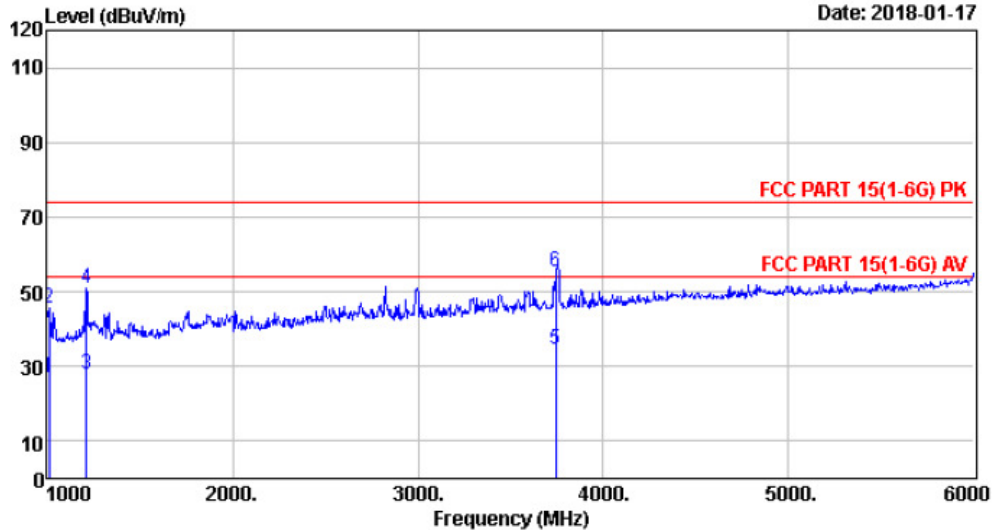
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 63 File: \\EMC-966-1\test data\2018\EMC\DD\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 63
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15(1-6G) PK
Env. / Ins. : Temp:27.6'; Humi:50%; Press:101.52kPa
Engineer : Sid
EUT : Dot Matrix Printer
Power : AC 120V/60Hz
M/N : M33342A
Test Mode : COM Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1010.000	24.63	2.10	0.42	27.15	54.00	26.85	Average
2	1010.000	24.63	2.10	19.07	45.80	74.00	28.20	Peak
3	1210.000	25.01	2.20	0.61	27.82	54.00	26.18	Average
4	1210.000	25.01	2.20	23.63	50.84	74.00	23.16	Peak
5	3745.000	29.83	4.17	0.45	34.45	54.00	19.55	Average
6	3745.000	29.83	4.17	21.54	55.54	74.00	18.46	Peak

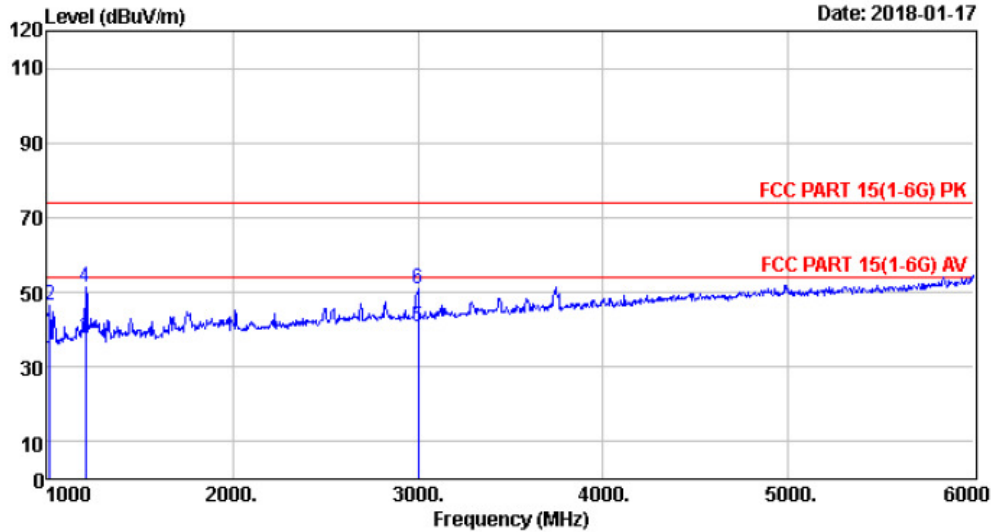
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Data: 64 File: \\EMC-966-1\\test data\\2018\\EMC\\D\\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 64
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp: 27.6'; Humi: 50%; Press: 101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LPT Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1015.000	24.63	2.10	5.13	31.86	54.00	22.14	Average
2	1015.000	24.63	2.10	19.81	46.54	74.00	27.46	Peak
3	1205.000	25.01	2.20	10.26	37.47	54.00	16.53	Average
4	1205.000	25.01	2.20	23.94	51.15	74.00	22.85	Peak
5	3000.000	28.40	3.60	8.74	40.74	54.00	13.26	Average
6	3000.000	28.40	3.60	18.83	50.83	74.00	23.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

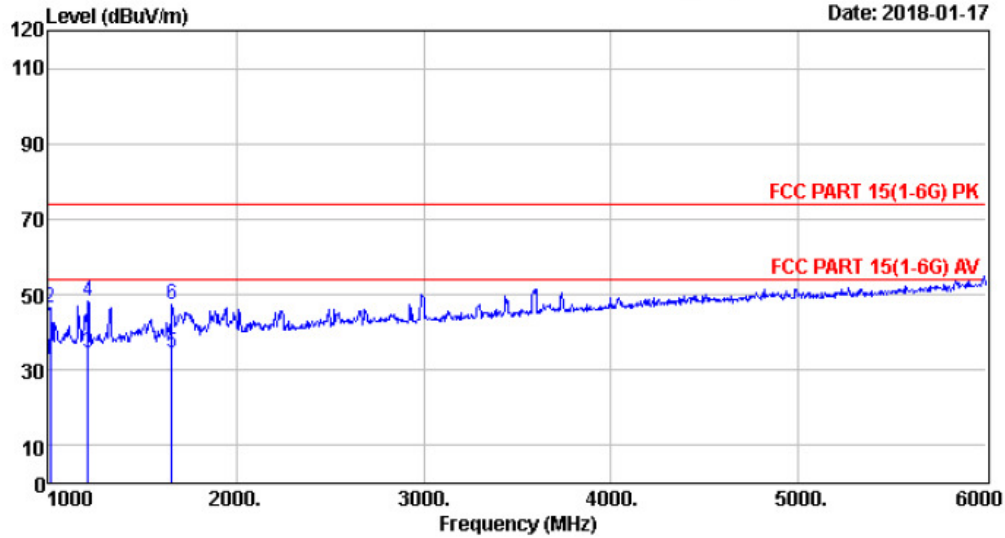
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Data: 65

File: \\EMC-966-1\\test data\\2018\\EMC\\D\\Dascom.EM6 (137)

Date: 2018-01-17



Site no. : 1# 966 Chamber Data no. : 65
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp: 27.6'; Humi: 50%; Press: 101.52 kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LPT Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1010.000	24.63	2.10	6.24	32.97	54.00	21.03	Average
2	1010.000	24.63	2.10	19.81	46.54	74.00	27.46	Peak
3	1210.000	25.01	2.20	7.11	34.32	54.00	19.68	Average
4	1210.000	25.01	2.20	21.01	48.22	74.00	25.78	Peak
5	1660.000	25.87	2.66	6.12	34.65	54.00	19.35	Average
6	1660.000	25.87	2.66	19.02	47.55	74.00	26.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

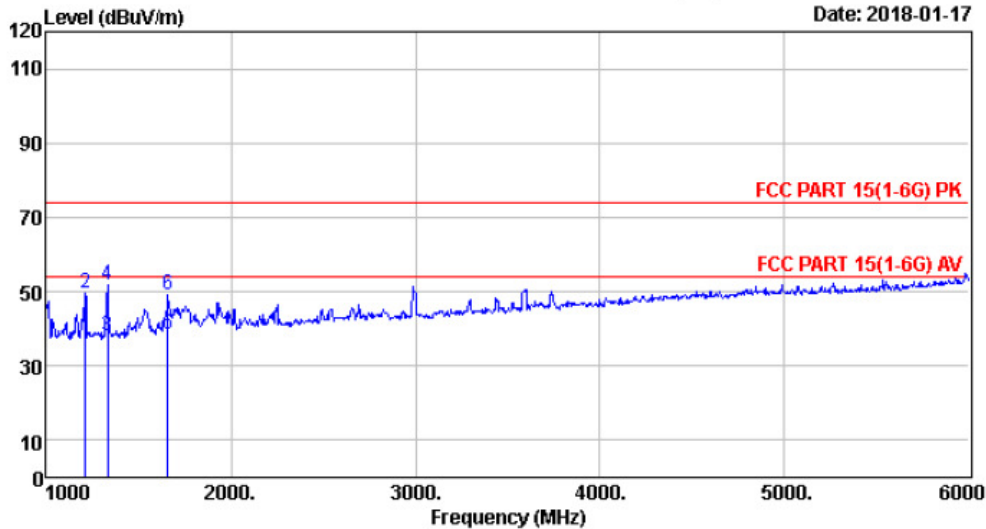
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Data: 66

File: \\EMC-966-1\\test data\\2018\\EMC\\D\\Dascom.EM6 (137)

Date: 2018-01-17



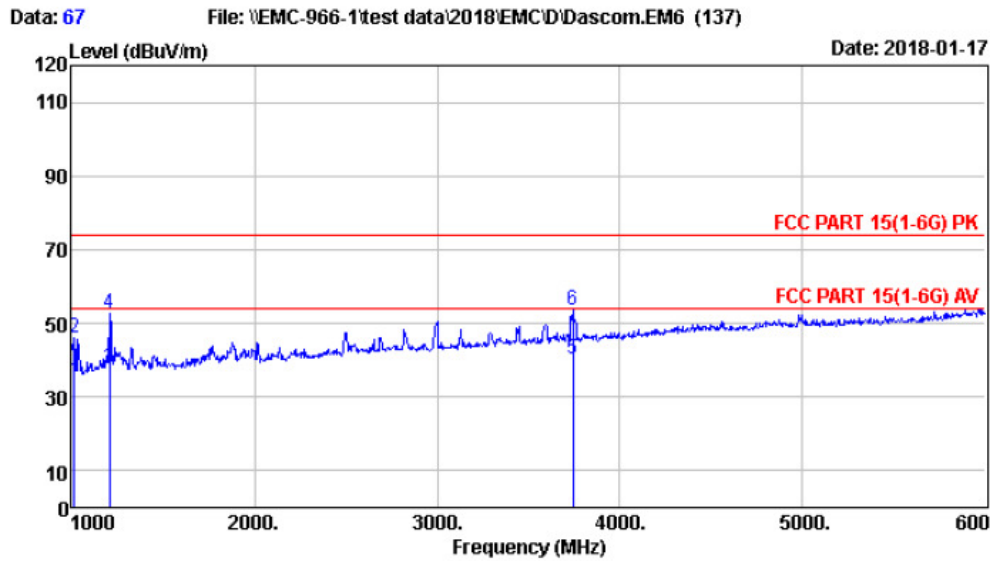
Site no. : 1# 966 Chamber Data no. : 66
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp: 27.6'; Humi: 50%; Press: 101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LAN Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1210.000	25.01	2.20	10.39	37.60	54.00	16.40	Average
2	1210.000	25.01	2.20	22.47	49.68	74.00	24.32	Peak
3	1330.000	25.26	2.30	10.42	37.98	54.00	16.02	Average
4	1330.000	25.26	2.30	24.43	51.99	74.00	22.01	Peak
5	1660.000	25.87	2.66	9.80	38.33	54.00	15.67	Average
6	1660.000	25.87	2.66	20.67	49.20	74.00	24.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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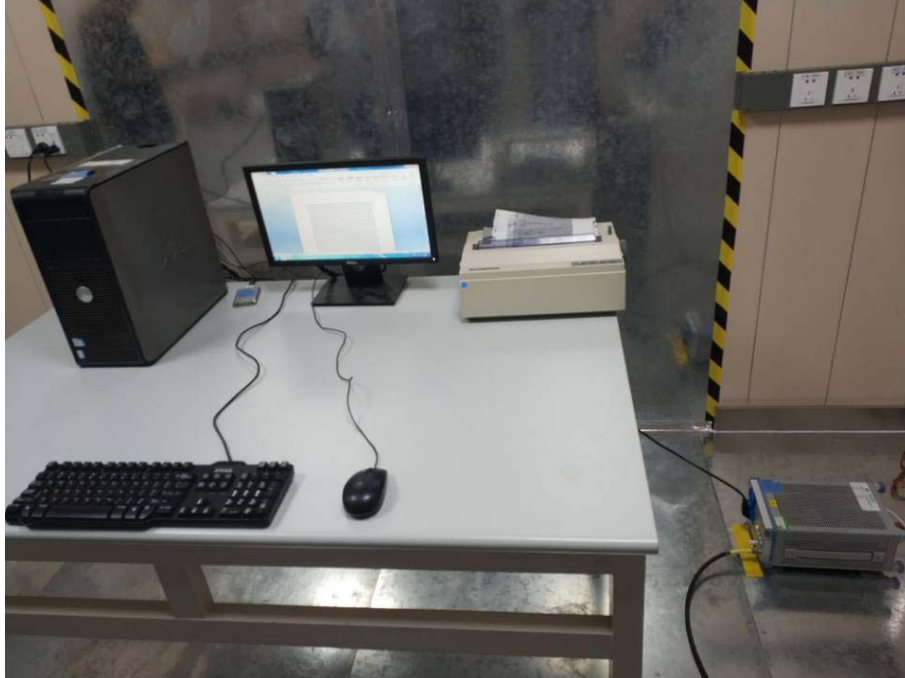
Site no. : 1# 966 Chamber Data no. : 67
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15(1-6G) PK
 Env. / Ins. : Temp:27.6'; Humi:50%; Press:101.52kPa
 Engineer : Sid
 EUT : Dot Matrix Printer
 Power : AC 120V/60Hz
 M/N : M33342A
 Test Mode : LAN Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1015.000	24.63	2.10	7.33	34.06	54.00	19.94	Average
2	1015.000	24.63	2.10	19.43	46.16	74.00	27.84	Peak
3	1205.000	25.01	2.20	10.42	37.63	54.00	16.37	Average
4	1205.000	25.01	2.20	25.64	52.85	74.00	21.15	Peak
5	3745.000	29.83	4.17	6.12	40.12	54.00	13.88	Average
6	3745.000	29.83	4.17	19.67	53.67	74.00	20.33	Peak

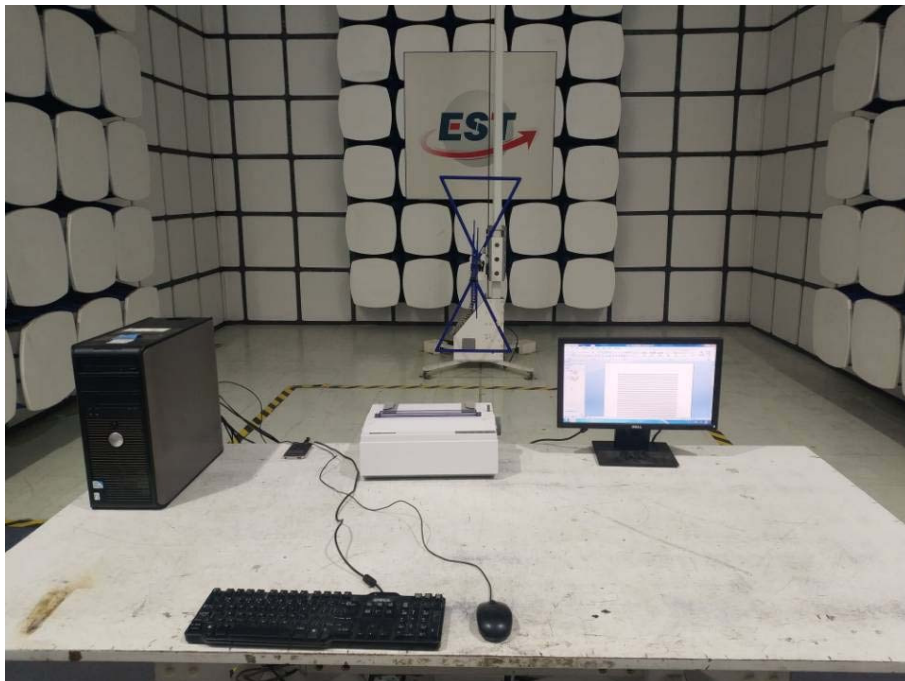
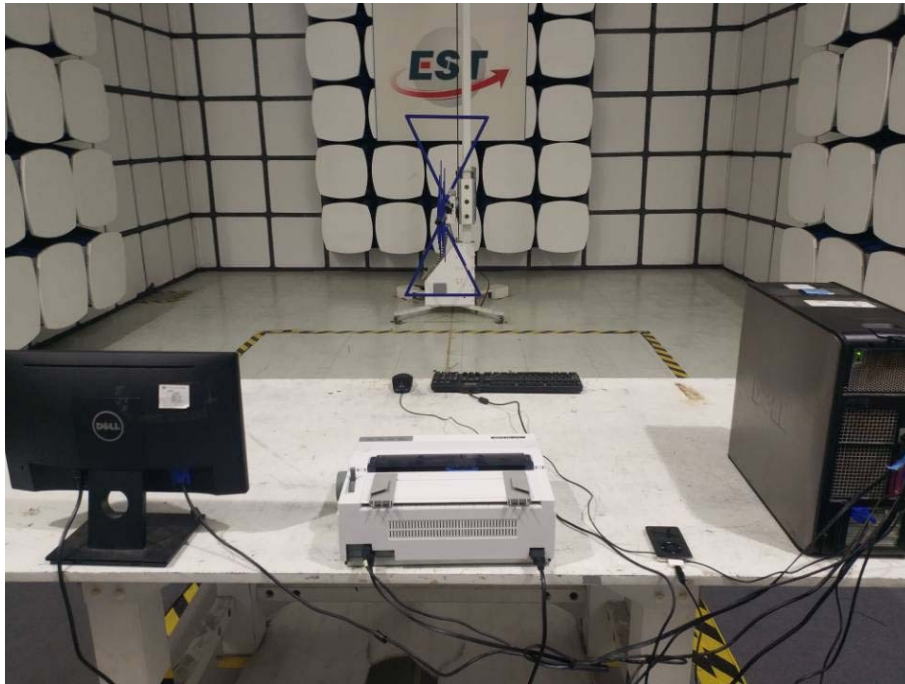
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

5. PHOTOGRAPHS OF TEST SET-UP

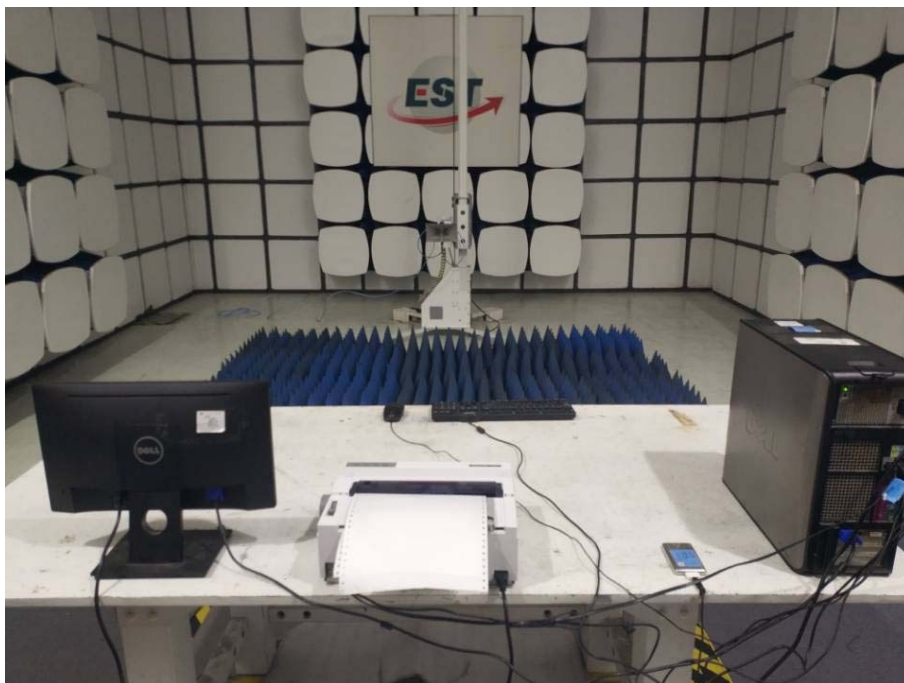
5.1. Set-up for conducted emission at the mains terminals test



5.2. Set-up for radiated emission test (30-1000MHz)



5.3. Set-up for radiated emission test (Above 1GHz)



6. PHOTOGRAPHS OF THE EUT

External Photos
M/N: M33342A



External Photos
M/N: M33342A

