

Prüfbericht-Nr.: <i>Test Report No.:</i>	17052720 005	Auftrags-Nr.: <i>Order No.:</i>	164045796	Seite 1 von 45 Page 1 of 45
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	21.09.2015	
Auftraggeber: <i>Client:</i>	Lightcomm Technology Co., Ltd. RM1708-10, 17/F, PROSPERITY CENTRE, 25 CHONG YIP STREET, KWUN TONG, HONG KONG			
Prüfgegenstand: <i>Test item:</i>	11.6" QUAD CODE TABLET			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	DL1168A, MID1102-MA			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification/Verification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of receipt:</i>	18.09.2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	ES150922017E-4			
Prüfzeitraum: <i>Testing period:</i>	22.09.2015 - 23.09.2015			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen EMTEK Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
10.10.2015	Sam Lin/Assistant Manager	10.10.2015	Owen Tian/Senior Project Manager	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
				Unterschrift <i>Signature</i>
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

TEST SUMMARY

5.1.1 CONDUCTED EMISSIONS

RESULT: Pass

5.2.1 RADIATED EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Shenzhen EMTEK Co., Ltd.

(FCC Registration No.: 709623)

Bldg 69, Majialong Industry Zone, Nanshan District,
Shenzhen, Guangdong, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Radiated Emissions				
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	2016-05-16
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	2016-05-16
Cable	H+B	3M SF104-26.5	295838/4	2016-05-28
Cable	H+B	6M SF104-26.5	295840/4	2016-05-28
Pre-Amplifier	HP	8447F	2944A07999	2016-05-16
Bilog Antenna	Schwarzbeck	VULB9163	142	2016-05-28
Cable	Schwarzbeck	AK9513	ACRX1	2016-05-16
Cable	Rosenberger	N/A	FP2RX2	2016-05-16
Cable	Schwarzbeck	AK9513	CRPX1	2016-05-28
Cable	Schwarzbeck	AK9513	CRRX2	2016-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16
Horn Antenna	Schwarzbeck	BBHA 9120	707	2016-05-28
Pre-Amplifier	A.H.	PAM-0126	1415261	2016-05-16
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91703 99	2016-05-16
EMI Test Receiver	Rohde & Schwarz	FSV40	132.1- 3008K39- 100967-AP	2016-05-16
Pre-Amplifier	Lunar EM	LNA26G40-40	J101313102 8001	2016-05-16
Horn Antenna	AHS/USA	SAS-573	184	2016-05-16
Cable	H+B	0.5M SF104-26.5	289147/4	2016-05-16
Cable	H+B	3M SF104-26.5	295838/4	2016-05-16
Cable	H+B	6M SF104-26.5	295840/4	2016-05-16
Conducted Emission				
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	2016-05-16
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	2016-05-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	2016-05-16
Voltage Probe	Rohde & Schwarz	TK9416	N/A	2016-05-16
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	2016-05-16
50Ω Coaxial Switch	Anritsu	MP59B	M20531	2016-05-16

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO/IEC 17025 are:

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5°C
Humidity	±3%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Shenzhen EMTEK Co., Ltd. test facility located at Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

2.8 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

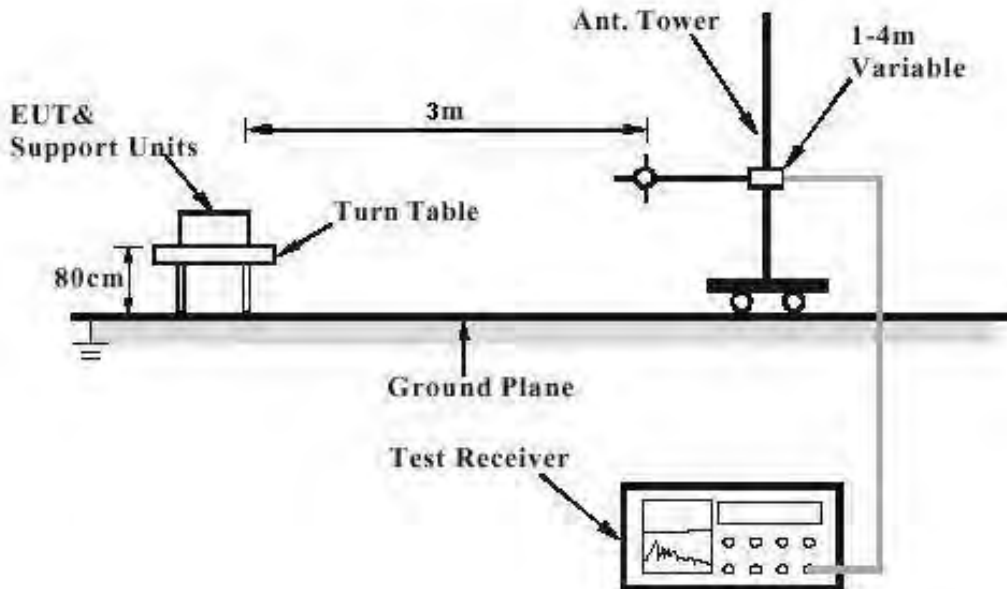
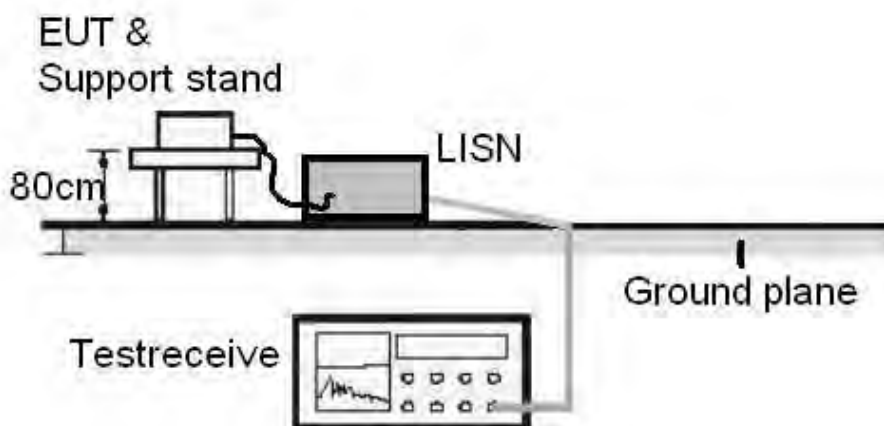


Diagram of Measurement Equipment Configuration for Conduction Measurement



3. General Product Information

3.1 Product Function and Intended Use

The EUTs are 11.6" quad code tablet with Wi-Fi, Bluetooth function. These models are identical except the model name. For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	MID
Type Designation	DL1168A, MID1102-MA
FCC ID	XMF-MID1102
Extreme Temperature Range	-30~+75°C
Operation Voltage	DC 3.7V (via built in battery)
	DC 5V (via AC/DC adapter)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, with charging
 - 1. Recording mode
 - 2. Playing mode
- B. Connected to PC
- C. Standby
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- Constructional Drawing
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2014. According to clause 3.1, all tests were applied on model MID1102-MA only.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	TEKA	TEKA012-0502000UK	Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5V, 2A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input
Earphone port	2 cores, non-shielded port, 3m	Audio Output
Microphone	2 cores, non-shielded port, 3m	Audio Input
TF card slot	---	---

4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Conducted emissions

RESULT:**Pass**

Date of testing : 2015-09-23
Test standard : FCC Part 15.107 (a)
Basic standard : ANSI C63.4: 2014
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.107(a)
Kind of test site : Shield room

Test setup

Input Voltage : AC 120V, 60Hz
Operation Mode : A, B
Earthing : Not Connected
Ambient temperature : 26°C
Relative humidity : 55%
Atmospheric pressure : 101kPa

For details refer to following test plot.

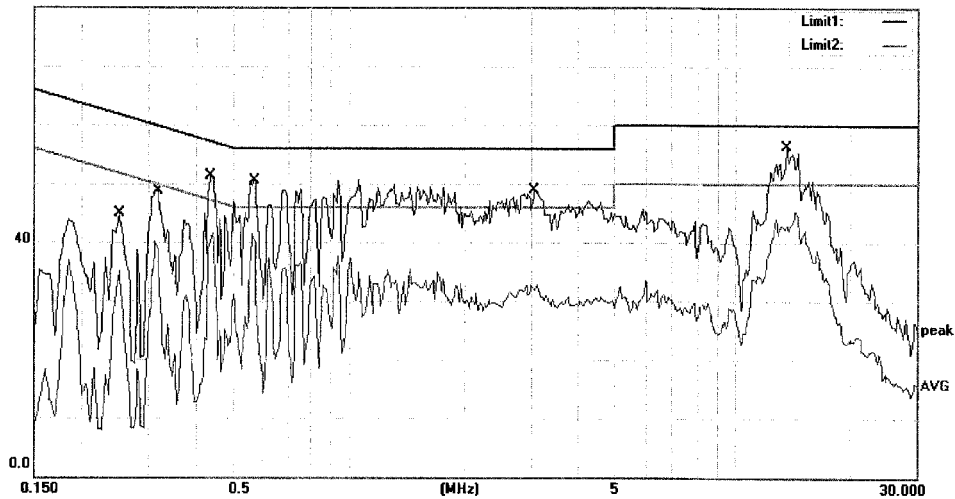
Shenzhen EMTEK Co., Ltd.
 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
 www.emtek.com.cn Tel:+86-755-2695 4280 Fax:+86-755-2695 4282


Conducted Emission Measurement

 File :TUV
 80.0 dBuV

Data #844

Date: 2015/09/23



Site Conduction #2

 Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Camera Recording(front)

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2500	42.30	0.00	42.30	61.76	-19.46	QP	
2	0.2500	35.11	0.00	35.11	51.76	-16.65	AVG	
3	0.3150	46.20	0.00	46.20	59.84	-13.64	QP	
4	0.3150	40.11	0.00	40.11	49.84	-9.73	AVG	
5	0.4350	49.50	0.00	49.50	57.16	-7.66	QP	
6	0.4350	41.51	0.00	41.51	47.16	-5.65	AVG	
7	0.5700	50.52	0.00	50.52	56.00	-5.48	QP	
8 *	0.5700	41.42	0.00	41.42	46.00	-4.58	AVG	
9	3.0650	46.50	0.00	46.50	56.00	-9.50	QP	
10	3.0650	32.74	0.00	32.74	46.00	-13.26	AVG	
11	13.6750	54.30	0.00	54.30	60.00	-5.70	QP	
12	13.6750	45.35	0.00	45.35	50.00	-4.65	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUV\Data :#844

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 Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P. R. China
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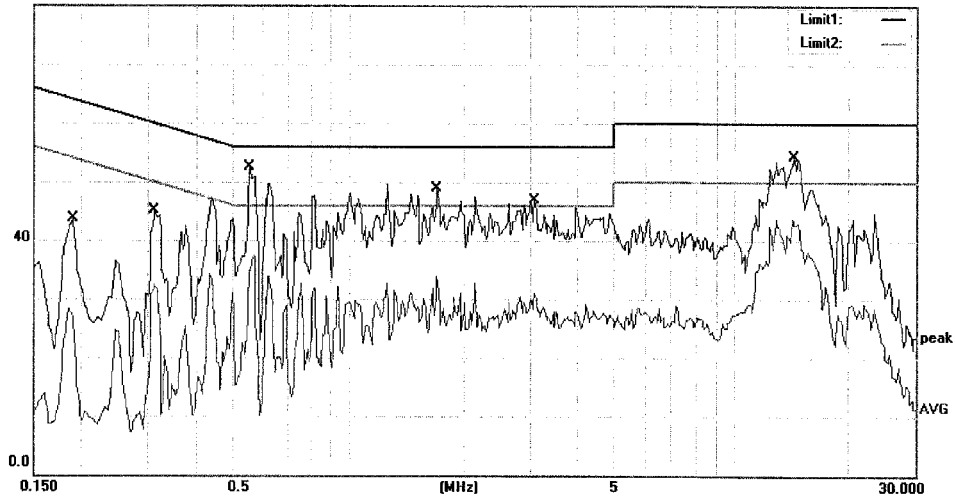

Conducted Emission Measurement

File :TUV

Data :#843

Date: 2015/09/23

80.0 dBuV



Site Conduction #2

 Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Camera Recording(front)

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1900	43.79	0.00	43.79	64.04	-20.25	QP	
2	0.1900	28.40	0.00	28.40	54.04	-25.64	AVG	
3	0.3100	45.20	0.00	45.20	59.97	-14.77	QP	
4	0.3100	32.42	0.00	32.42	49.97	-17.55	AVG	
5	0.5550	48.60	0.00	48.60	56.00	-7.40	QP	
6	0.5550	37.55	0.00	37.55	46.00	-8.45	AVG	
7	1.6950	48.85	0.00	48.85	56.00	-7.15	QP	
8	1.6950	33.86	0.00	33.86	46.00	-12.14	AVG	
9	3.0800	46.91	0.00	46.91	56.00	-9.09	QP	
10	3.0800	31.11	0.00	31.11	46.00	-14.89	AVG	
11	14.4250	52.60	0.00	52.60	60.00	-7.40	QP	
12 *	14.4250	43.66	0.00	43.66	50.00	-6.34	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUV\Data :#843

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 www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282

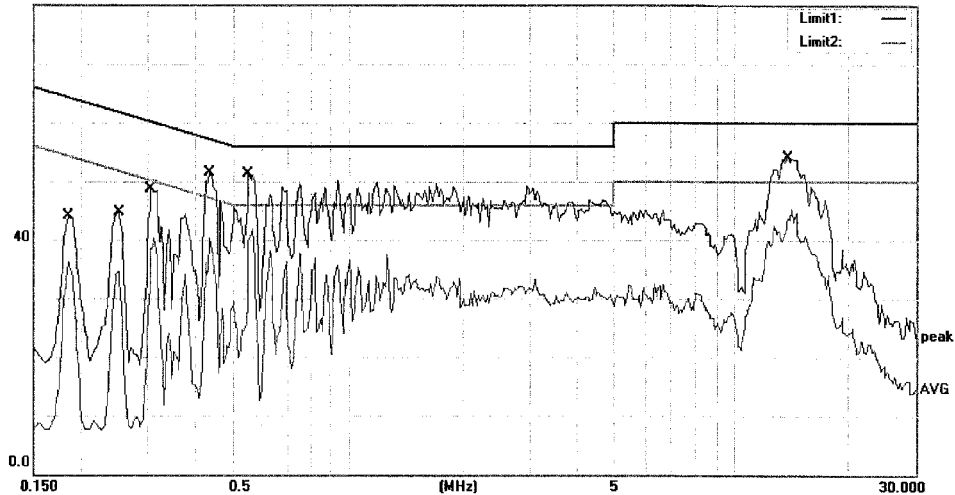

Conducted Emission Measurement

File :TUV

Data :#845

Date: 2015/09/23

00.0 dBuV



Site Conduction #2

 Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Camera Recording(rear)

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1850	44.07	0.00	44.07	64.26	-20.19	QP	
2	0.1850	36.38	0.00	36.38	54.26	-17.88	AVG	
3	0.2500	42.10	0.00	42.10	61.76	-19.66	QP	
4	0.2500	34.79	0.00	34.79	51.76	-16.97	AVG	
5	0.3050	46.80	0.00	46.80	60.11	-13.31	QP	
6	0.3050	40.39	0.00	40.39	50.11	-9.72	AVG	
7	0.4350	48.10	0.00	48.10	57.16	-9.06	QP	
8	0.4350	40.34	0.00	40.34	47.16	-6.82	AVG	
9	0.5500	48.30	0.00	48.30	56.00	-7.70	QP	
10 *	0.5500	41.83	0.00	41.83	46.00	-4.17	AVG	
11	13.8500	51.20	0.00	51.20	60.00	-8.80	QP	
12	13.8500	45.25	0.00	45.25	50.00	-4.75	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUVData :#845

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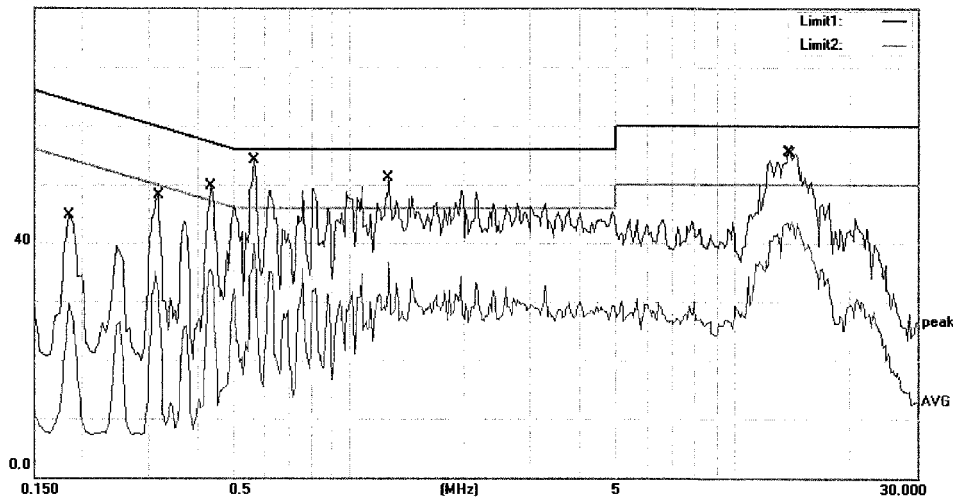
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Conducted Emission Measurement

 File :TUV
 80.0 dBuV

Data :#846

Date: 2015/09/23



Site Conduction #2

 Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Camera Recording(rear)

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1850	42.50	0.00	42.50	64.26	-21.76	QP	
2	0.1850	29.65	0.00	29.65	54.26	-24.61	AVG	
3	0.3150	46.30	0.00	46.30	59.84	-13.54	QP	
4	0.3150	35.09	0.00	35.09	49.84	-14.75	AVG	
5	0.4350	47.10	0.00	47.10	57.16	-10.06	QP	
6	0.4350	35.55	0.00	35.55	47.16	-11.61	AVG	
7 *	0.5650	51.20	0.00	51.20	56.00	-4.80	QP	
8	0.5650	39.88	0.00	39.88	46.00	-6.12	AVG	
9	1.2600	48.90	0.00	48.90	56.00	-7.10	QP	
10	1.2600	36.80	0.00	36.80	46.00	-9.20	AVG	
11	13.8500	54.30	0.00	54.30	60.00	-5.70	QP	
12	14.1500	43.76	0.00	43.76	50.00	-6.24	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUVData :#846

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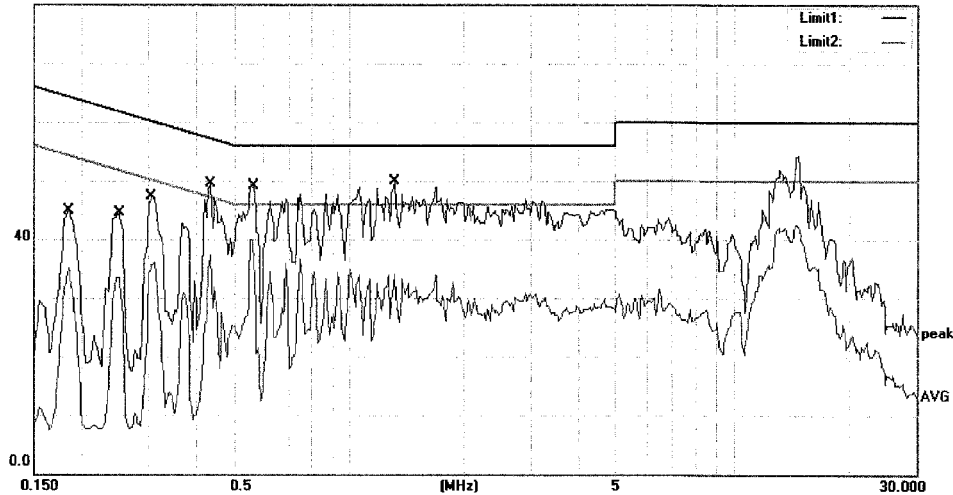
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Conducted Emission Measurement

 File :TUV
 80.0 dBuV

Data :#841

Date: 2015/09/23



Site Conduction #2

 Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Video Play (memory)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1850	44.92	0.00	44.92	64.26	-19.34	QP	
2		0.1850	35.06	0.00	35.06	54.26	-19.20	AVG	
3		0.2500	44.44	0.00	44.44	61.76	-17.32	QP	
4		0.2500	33.58	0.00	33.58	51.76	-18.18	AVG	
5		0.3050	47.22	0.00	47.22	60.11	-12.89	QP	
6		0.3050	36.12	0.00	36.12	50.11	-13.99	AVG	
7		0.4350	49.57	0.00	49.57	57.16	-7.59	QP	
8		0.4350	37.24	0.00	37.24	47.16	-9.92	AVG	
9		0.5650	49.15	0.00	49.15	56.00	-6.85	QP	
10	*	0.5650	39.88	0.00	39.88	46.00	-6.12	AVG	
11		1.3050	49.81	0.00	49.81	56.00	-6.19	QP	
12		1.3050	34.19	0.00	34.19	46.00	-11.81	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

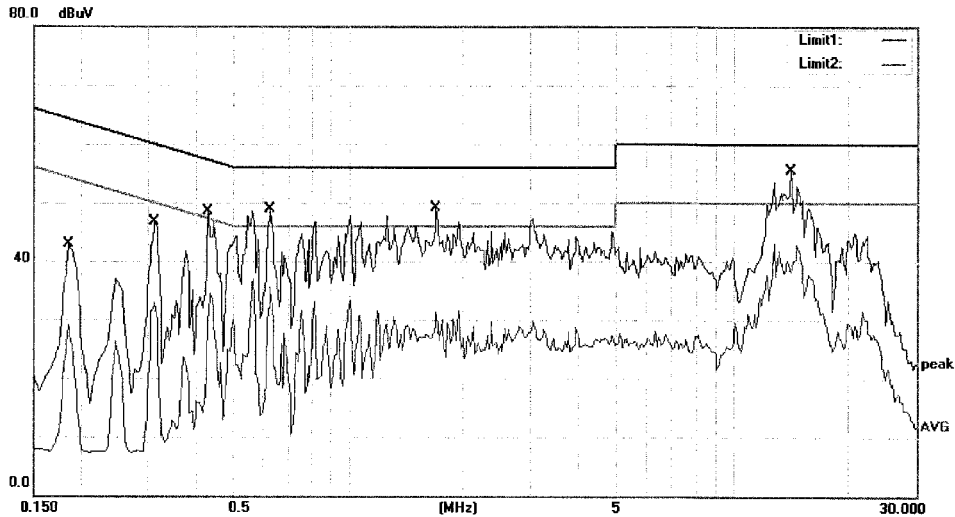
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Conducted Emission Measurement

File :TUV Data :#842 Date: 2015/09/23



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play (memory)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1850	42.86	0.00	42.86	64.26	-21.40	QP	
2	0.1850	29.12	0.00	29.12	54.26	-25.14	AVG	
3	0.3100	46.80	0.00	46.80	59.97	-13.17	QP	
4	0.3100	32.84	0.00	32.84	49.97	-17.13	AVG	
5	0.4300	48.51	0.00	48.51	57.25	-8.74	QP	
6	0.4300	34.58	0.00	34.58	47.25	-12.67	AVG	
7	0.6250	48.83	0.00	48.83	56.00	-7.17	QP	
8	0.6250	36.96	0.00	36.96	46.00	-9.04	AVG	
9	1.6950	49.09	0.00	49.09	56.00	-6.91	QP	
10	1.6950	31.36	0.00	31.36	46.00	-14.64	AVG	
11 *	14.1500	54.10	0.00	54.10	60.00	-5.90	QP	
12	14.1500	42.90	0.00	42.90	50.00	-7.10	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

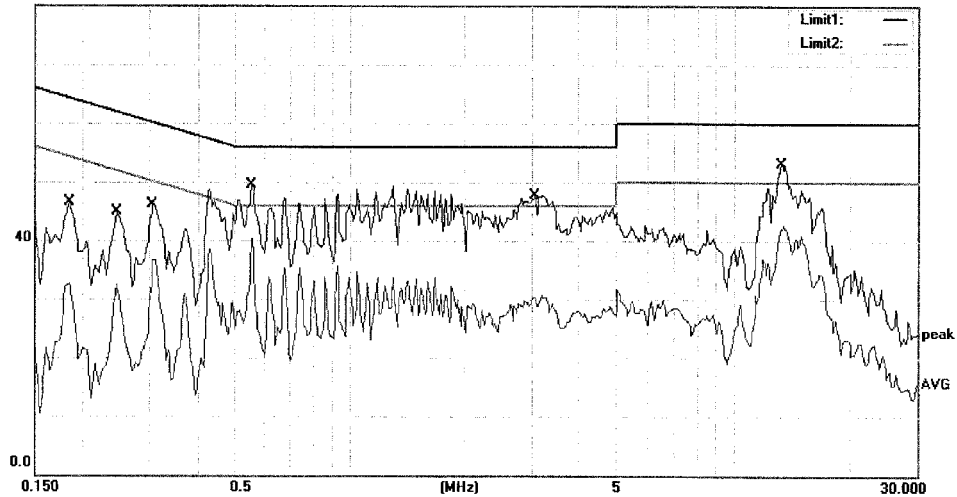
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Conducted Emission Measurement

 File :TUV
 00.0 dBuV

Data :#839

Date: 2015/09/23



Site Conduction #2

 Phase: **L1**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Video Play (SD Card)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1850	46.59	0.00	46.59	64.26	-17.67	QP	
2		0.1850	32.79	0.00	32.79	54.26	-21.47	AVG	
3		0.2450	44.83	0.00	44.83	61.92	-17.09	QP	
4		0.2450	32.53	0.00	32.53	51.92	-19.39	AVG	
5		0.3050	46.08	0.00	46.08	60.11	-14.03	QP	
6		0.3050	36.73	0.00	36.73	50.11	-13.38	AVG	
7		0.5550	49.46	0.00	49.46	56.00	-6.54	QP	
8	*	0.5550	40.31	0.00	40.31	46.00	-5.69	AVG	
9		3.0700	47.64	0.00	47.64	56.00	-8.36	QP	
10		3.0700	30.74	0.00	30.74	46.00	-15.26	AVG	
11		13.3000	53.05	0.00	53.05	60.00	-6.95	QP	
12		13.3000	42.67	0.00	42.67	50.00	-7.33	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

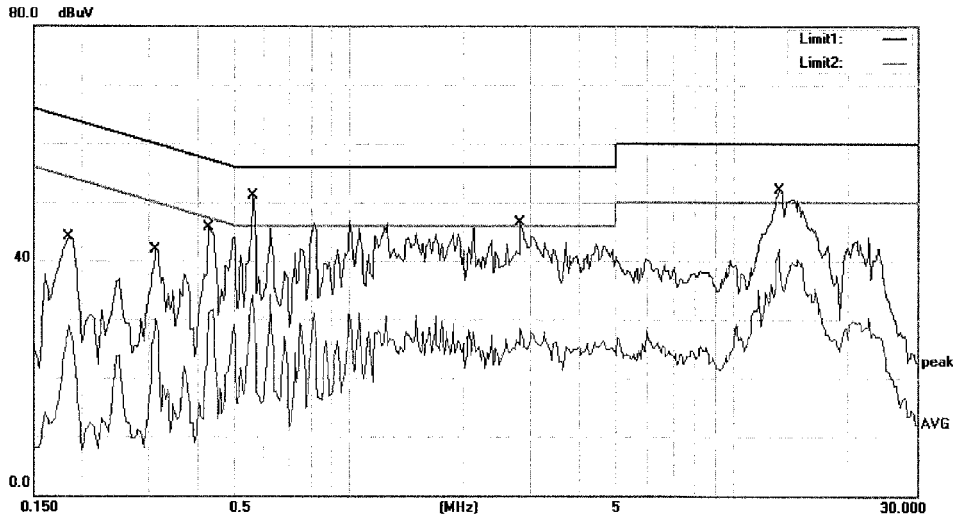
File :TUVData :#839

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Conducted Emission Measurement

File :TUV Data :#840 Date: 2015/09/23



Site Conduction #2 Phase: **N** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play (SD Card)
 Note:

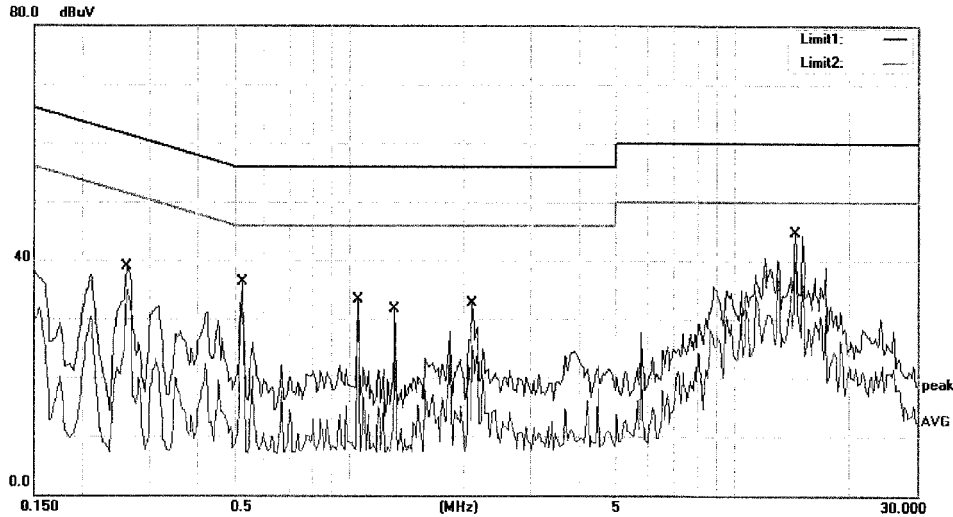
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1850	44.05	0.00	44.05	64.26	-20.21	QP	
2	0.1850	28.99	0.00	28.99	54.26	-25.27	AVG	
3	0.3100	41.98	0.00	41.98	59.97	-17.99	QP	
4	0.3100	30.18	0.00	30.18	49.97	-19.79	AVG	
5	0.4300	45.61	0.00	45.61	57.25	-11.64	QP	
6	0.4300	31.60	0.00	31.60	47.25	-15.65	AVG	
7 *	0.5600	48.60	0.00	48.60	56.00	-7.40	QP	
8	0.5600	34.14	0.00	34.14	46.00	-11.86	AVG	
9	2.8100	46.52	0.00	46.52	56.00	-9.48	QP	
10	2.8100	28.47	0.00	28.47	46.00	-17.53	AVG	
11	13.2250	52.08	0.00	52.08	60.00	-7.92	QP	
12	13.2250	42.09	0.00	42.09	50.00	-7.91	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

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Conducted Emission Measurement

File :TUV Data :#850 Date: 2015/09/23



Site Conduction #2 Phase: **L1** Temperature: 26
 Limit: (CE)FCC PART 15 class B_QP Power: AC 120V/60Hz Humidity: 55 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Connect to PC
 Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.2600	38.96	0.00	38.96	61.43	-22.47	QP	
2	0.2600	34.91	0.00	34.91	51.43	-16.52	AVG	
3	0.5250	36.39	0.00	36.39	56.00	-19.61	QP	
4	0.5250	34.55	0.00	34.55	46.00	-11.45	AVG	
5	1.0500	33.37	0.00	33.37	56.00	-22.63	QP	
6	1.0500	31.50	0.00	31.50	46.00	-14.50	AVG	
7	1.3100	31.71	0.00	31.71	56.00	-24.29	QP	
8	1.3100	30.56	0.00	30.56	46.00	-15.44	AVG	
9	2.1000	32.68	0.00	32.68	56.00	-23.32	QP	
10	2.1000	25.49	0.00	25.49	46.00	-20.51	AVG	
11	14.4500	44.67	0.00	44.67	60.00	-15.33	QP	
12 *	14.4500	39.86	0.00	39.86	50.00	-10.14	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

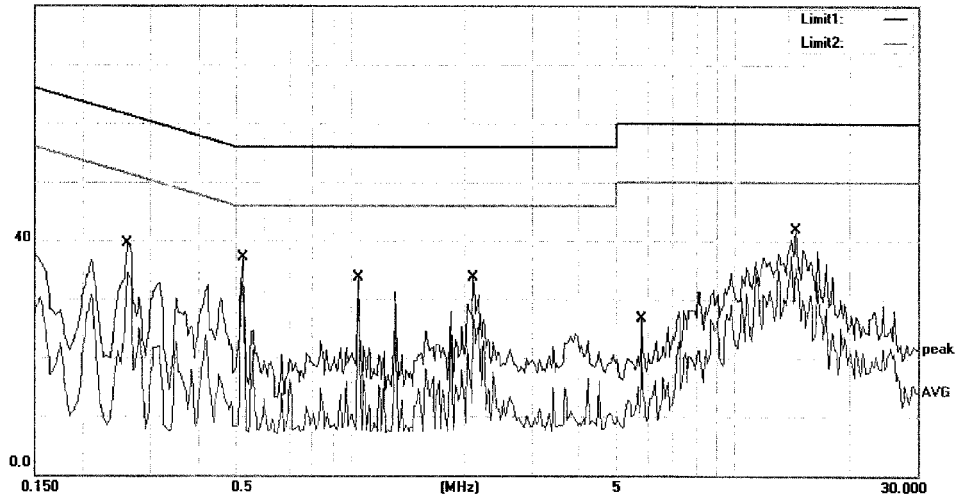
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Conducted Emission Measurement

 File :TUV
 00.0 dBuV

Data :#849

Date: 2015/09/23



Site Conduction #2

 Phase: **N**

Temperature: 26

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

EUT: MID

M/N: MID1102-MA; DL1168A

Mode: Connect to PC

Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2600	39.44	0.00	39.44	61.43	-21.99	QP	
2	0.2600	34.57	0.00	34.57	51.43	-16.86	AVG	
3	0.5250	37.09	0.00	37.09	56.00	-18.91	QP	
4 *	0.5250	34.82	0.00	34.82	46.00	-11.18	AVG	
5	1.0500	33.67	0.00	33.67	56.00	-22.33	QP	
6	1.0500	31.69	0.00	31.69	46.00	-14.31	AVG	
7	2.1000	33.78	0.00	33.78	56.00	-22.22	QP	
8	2.1000	27.27	0.00	27.27	46.00	-18.73	AVG	
9	5.7800	26.71	0.00	26.71	60.00	-33.29	QP	
10	5.7800	21.66	0.00	21.66	50.00	-28.34	AVG	
11	14.4500	42.00	0.00	42.00	60.00	-18.00	QP	
12	14.4500	37.45	0.00	37.45	50.00	-12.55	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CSL

File :TUVData :#849

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Prüfbericht - Nr.: 17052720 005
Test Report No.Seite 22 von 45
Page 22 of 45

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Emission

RESULT:**Pass**

Date of testing : 2015-09-22
Test standard : FCC Part 15.109 (a)
Test procedure : ANSI C63.4: 2014
Frequency range : 30 - 6000MHz
Equipment Classification : Class B
Limits : FCC Part 15.109(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Input Voltage : AC 120V, 60Hz
Operation mode : A, B
Earthing : Not connected
Ambient temperature : 24°C
Relative humidity : 53%
Atmospheric pressure : 101kPa

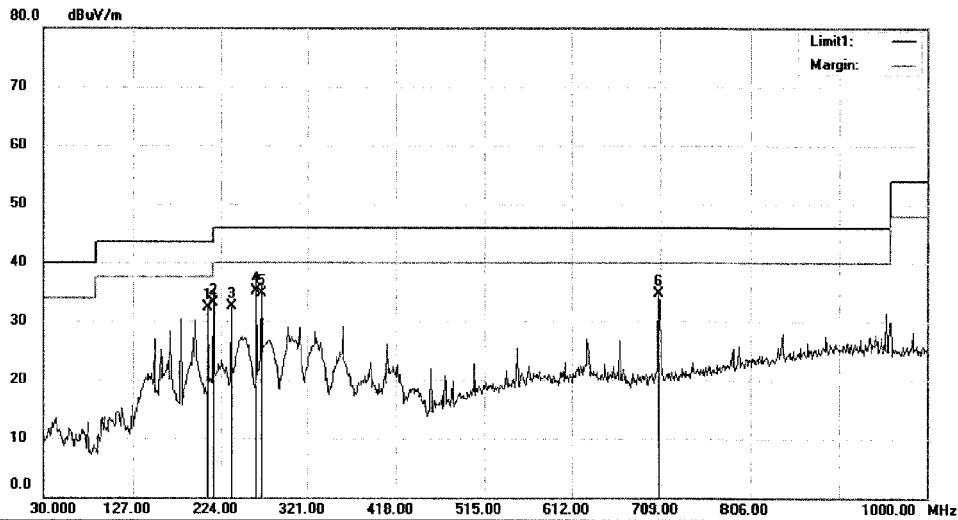
Note: the highest frequency generated in EUT is 1.3GHz, hence the highest scan frequency should be 6.5GHz, however the test result of above 1GHz is below the limit observably, the test was carried out up to 6GHz only.

For details refer to following test plot.

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Radiated Emission Measurement

File :TUV 9 Data :#515 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Camera(Front)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		209.4500	48.72	-16.38	32.34	43.50	-11.16	QP		
2	*	215.2700	49.54	-16.38	33.16	43.50	-10.34	QP		
3		235.6400	46.80	-14.39	32.41	46.00	-13.59	QP		
4		263.7700	47.87	-12.75	35.12	46.00	-10.88	QP		
5		269.5900	47.37	-12.69	34.68	46.00	-11.32	QP		
6		707.0600	40.45	-5.76	34.69	46.00	-11.31	QP		

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

Operator: KK

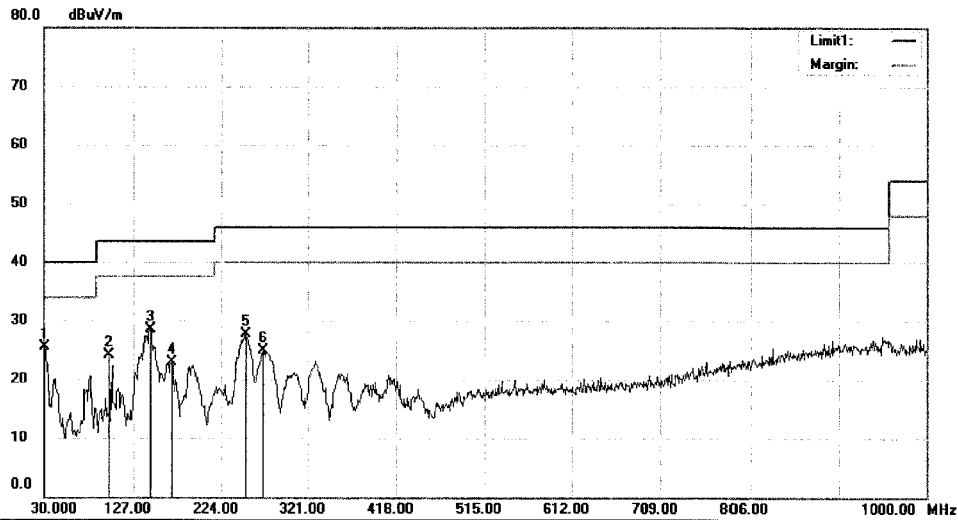
File :TUV 9\Data :#515

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Radiated Emission Measurement

File: TUV 9 Data: #516 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Camera(Front)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1 *	30.0000	41.96	-16.46	25.50	40.00	-14.50	QP			
2	100.8100	38.08	-14.02	24.06	43.50	-19.44	QP			
3	145.4300	46.54	-17.95	28.59	43.50	-14.91	QP			
4	168.7100	42.30	-19.34	22.96	43.50	-20.54	QP			
5	251.1600	40.92	-13.25	27.67	46.00	-18.33	QP			
6	270.5600	37.54	-12.68	24.86	46.00	-21.14	QP			

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

Operator: KK

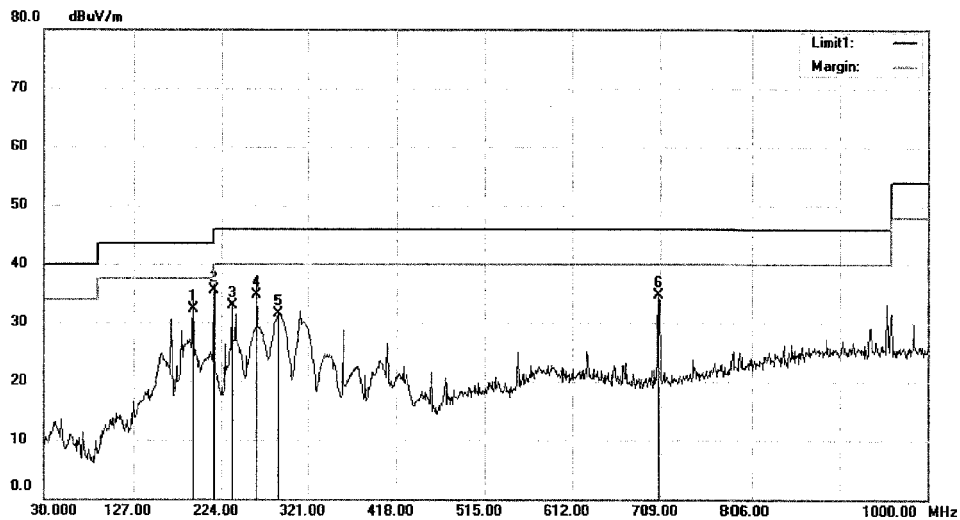
File: TUV 9\Data: #516

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Radiated Emission Measurement

File :TUV 9 Data :#517 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Camera(Rear)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	191.9900	49.48	-17.11	32.37	43.50	-11.13	QP			
2 *	215.2700	51.81	-16.38	35.43	43.50	-8.07	QP			
3	235.6400	47.31	-14.39	32.92	46.00	-13.08	QP			
4	263.7700	47.40	-12.75	34.65	46.00	-11.35	QP			
5	288.0200	44.50	-13.07	31.43	46.00	-14.57	QP			
6	707.0600	40.51	-5.76	34.75	46.00	-11.25	QP			

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

Operator: KK

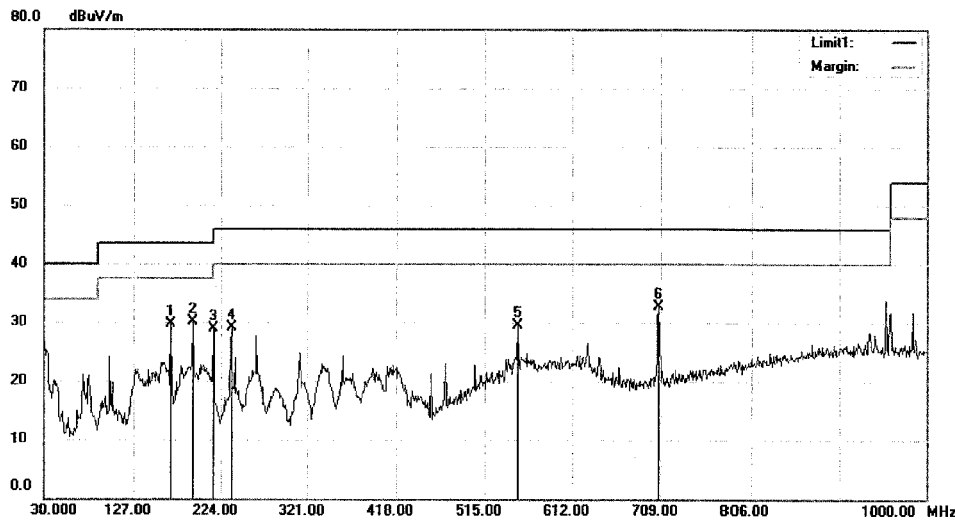
File :TUV 9\Data :#517

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Radiated Emission Measurement

File:TUV 9 Data:#518 Date:2015/09/22



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		167.7400	49.03	-19.27	29.76	43.50	-13.74	QP		
2	*	191.9900	47.27	-17.11	30.16	43.50	-13.34	QP		
3		215.2700	45.32	-16.38	28.94	43.50	-14.56	QP		
4		235.6400	43.53	-14.39	29.14	46.00	-16.86	QP		
5		551.8600	36.93	-7.38	29.55	46.00	-16.45	QP		
6		707.0600	38.40	-5.76	32.64	46.00	-13.36	QP		

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

Operator: KK

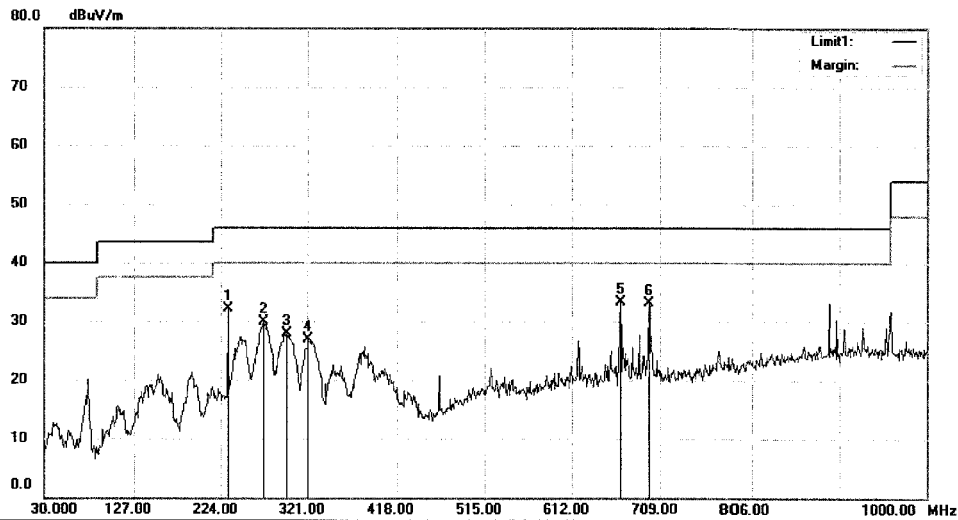
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Radiated Emission Measurement

File :TUV 9 Data :#514 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Video Play(Memory)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		231.7600	46.96	-14.88	32.08	46.00	-13.92	QP		
2		272.5000	42.46	-12.65	29.81	46.00	-16.19	QP		
3		298.6900	41.68	-13.74	27.94	46.00	-18.06	QP		
4		321.9700	40.24	-13.40	26.84	46.00	-19.16	QP		
5	*	665.3500	39.57	-6.33	33.24	46.00	-12.76	QP		
6		696.3900	39.13	-6.02	33.11	46.00	-12.89	QP		

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

Operator: KK

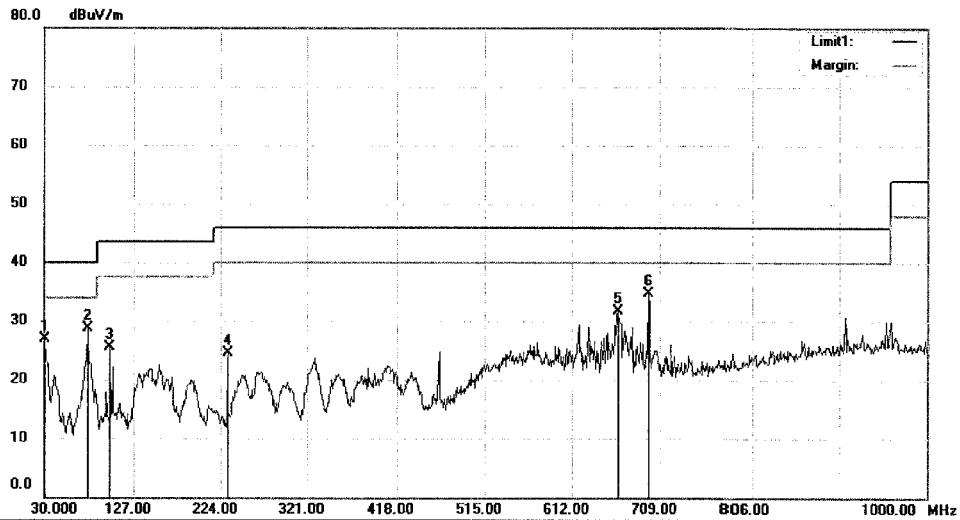
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Radiated Emission Measurement

File: TUV 9 Data: #513 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play(Memory)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	30.0000	43.46	-16.46	27.00	40.00	-13.00	QP		
2	76.5600	48.18	-19.48	28.70	40.00	-11.30	QP		
3	100.8100	39.56	-14.02	25.54	43.50	-17.96	QP		
4	231.7600	39.34	-14.88	24.46	46.00	-21.54	QP		
5	662.4400	38.09	-6.36	31.73	46.00	-14.27	QP		
6 *	696.3900	40.77	-6.02	34.75	46.00	-11.25	QP		

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

Operator: KK

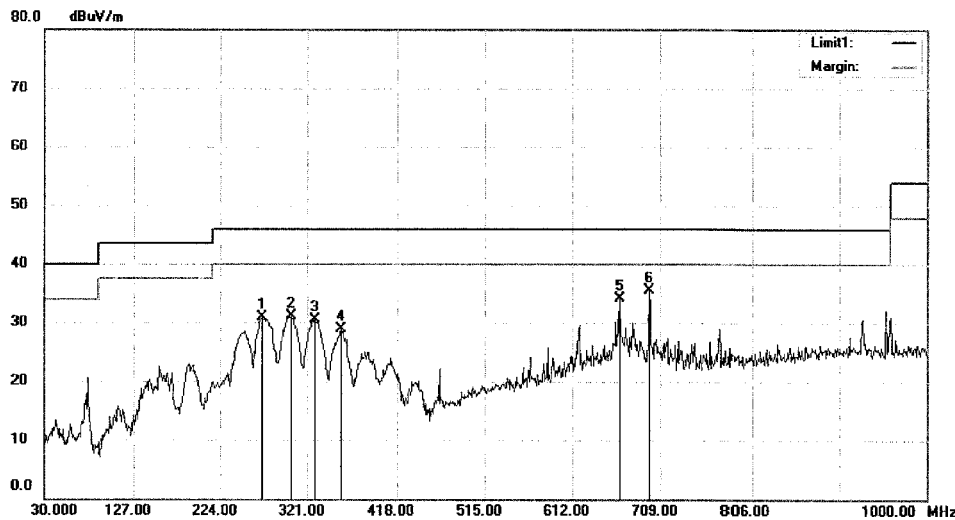
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Radiated Emission Measurement

File: TUV 9 Data: #512 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play(SD Card)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		270.5600	43.68	-12.68	31.00	46.00	-15.00	QP		
2		303.5400	44.88	-13.78	31.10	46.00	-14.90	QP		
3		328.7600	43.54	-13.04	30.50	46.00	-15.50	QP		
4		357.8600	39.90	-10.92	28.98	46.00	-17.02	QP		
5		664.3800	40.51	-6.34	34.17	46.00	-11.83	QP		
6	*	696.3900	41.51	-6.02	35.49	46.00	-10.51	QP		

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

Operator: KK

File: TUV 9\Data: #512

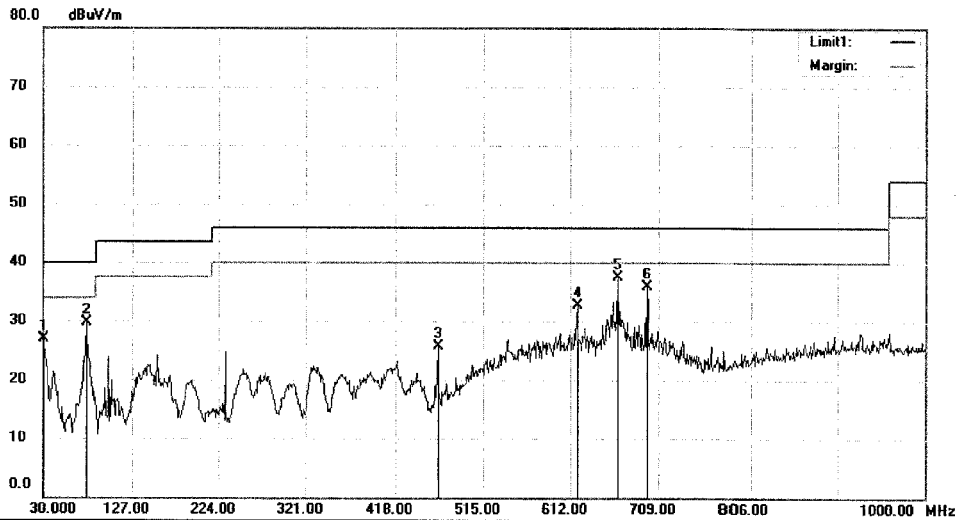
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Radiated Emission Measurement

File :TUV 9 Data :#511 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Video Play(SD Card)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		30.0000	43.36	-16.46	26.90	40.00	-13.10	QP		
2		76.5600	49.14	-19.48	29.66	40.00	-10.34	QP		
3		464.5600	36.56	-10.95	25.61	46.00	-20.39	QP		
4		619.7600	39.55	-6.79	32.76	46.00	-13.24	QP		
5	*	664.3800	43.89	-6.34	37.55	46.00	-8.45	QP		
6		696.3900	41.99	-6.02	35.97	46.00	-10.03	QP		

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

Operator: KK

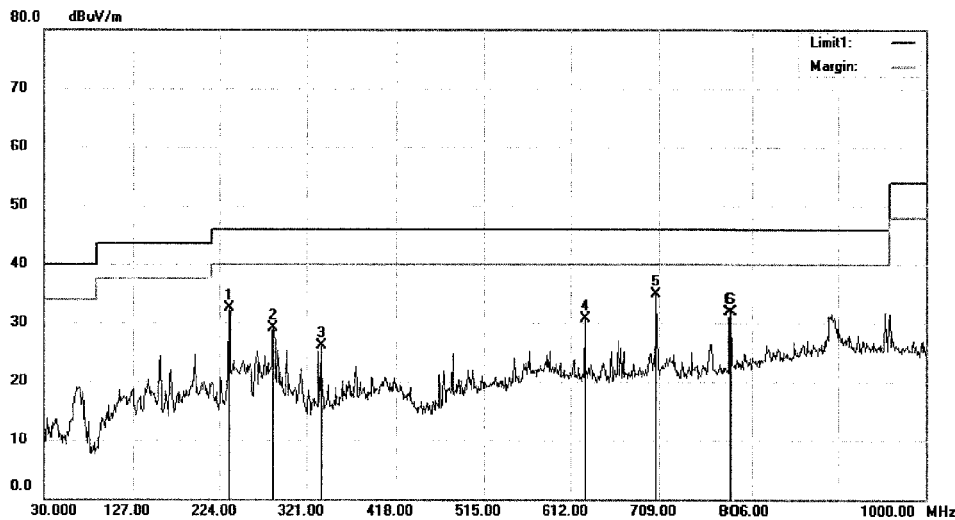
File :TUV 9\Data :#511

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Radiated Emission Measurement

File: TUV 9 Data: #519 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: USB Link
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	234.6700	47.04	-14.51	32.53	46.00	-13.47	QP			
2	284.1400	41.87	-12.83	29.04	46.00	-16.96	QP			
3	336.5200	38.66	-12.65	26.01	46.00	-19.99	QP			
4	627.5200	37.48	-6.70	30.78	46.00	-15.22	QP			
5 *	706.0900	40.64	-5.79	34.85	46.00	-11.15	QP			
6	784.6600	35.18	-3.35	31.83	46.00	-14.17	QP			

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

Operator: KK

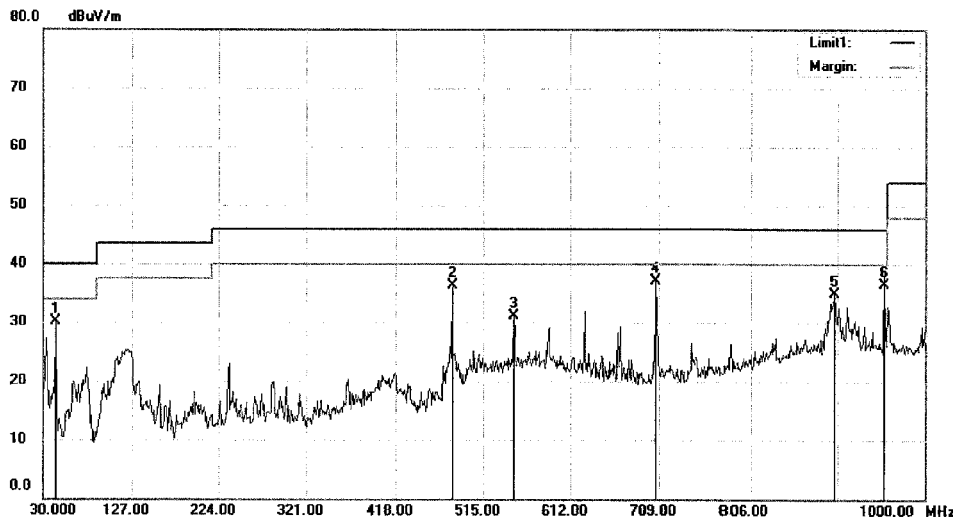
File :TUV 9\Data :#519

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Radiated Emission Measurement

File :TUV 9 Data :#520 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:USB Link
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		43.5800	43.17	-13.13	30.04	40.00	-9.96	QP		
2		480.0800	45.93	-9.53	36.40	46.00	-9.60	QP		
3		548.9500	38.54	-7.40	31.14	46.00	-14.86	QP		
4	*	706.0900	42.92	-5.79	37.13	46.00	-8.87	QP		
5		900.0900	35.45	-0.62	34.83	46.00	-11.17	QP		
6		955.3800	37.20	-0.71	36.49	46.00	-9.51	QP		

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

Operator: KK

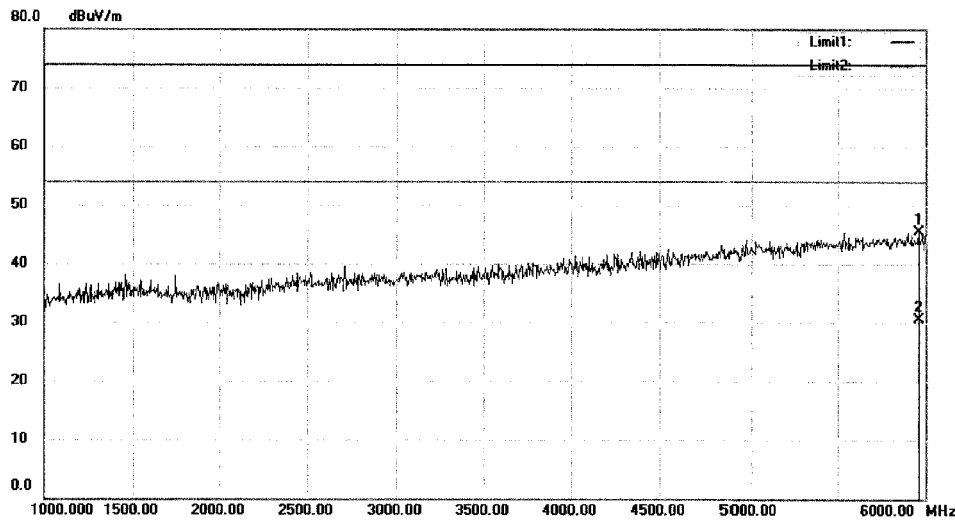
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Radiated Emission Measurement

File:TUV 9 Data:#525 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Camera(Front)
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	5960.000	58.69	-13.28	45.41	74.00	-28.59	peak			
2 *	5960.000	43.71	-13.28	30.43	54.00	-23.57	AVG			

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

Operator: KK

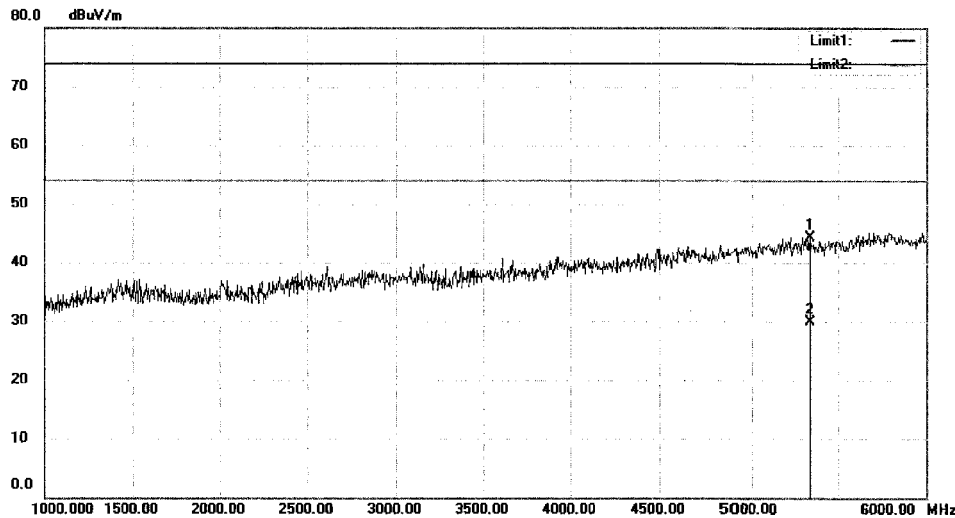
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Radiated Emission Measurement

File :TUV 9 Data :#526 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Camera(Front)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna	Table	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Height	Degree
1		5335.000	58.31	-14.02	44.29	74.00	-29.71	peak		
2	*	5335.000	43.90	-14.02	29.88	54.00	-24.12	AVG		

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

Operator: KK

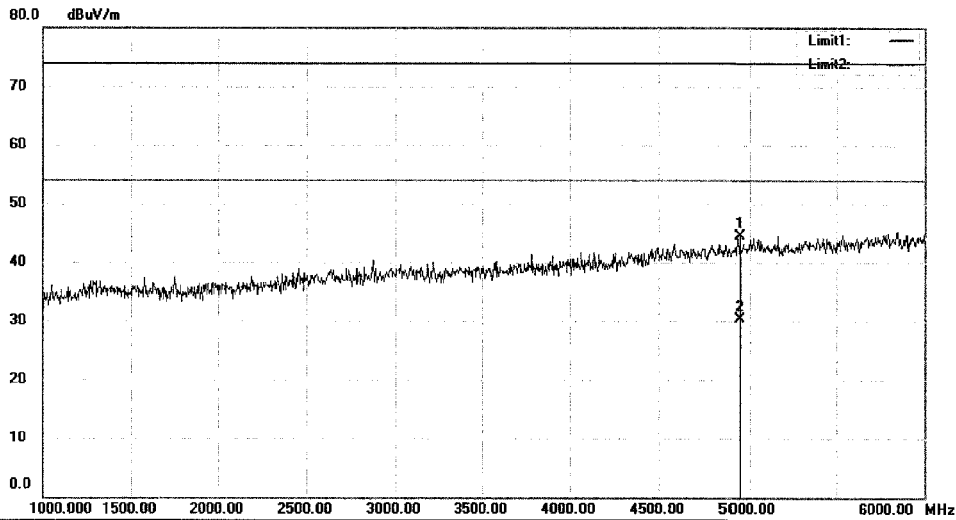
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Radiated Emission Measurement

File:TUV 9 Data:#527 Date:2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		4940.000	59.49	-15.04	44.45	74.00	-29.55	peak		
2	*	4940.000	45.25	-15.04	30.21	54.00	-23.79	AVG		

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

Operator: KK

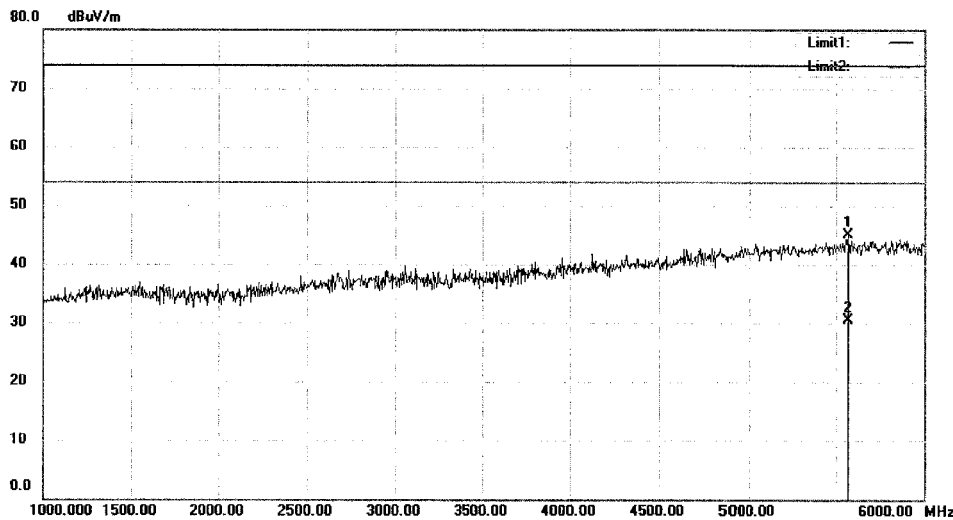
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Radiated Emission Measurement

File :TUV 9 Data :#528 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Camera(Rear)
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		5570.000	58.93	-13.74	45.19	74.00	-28.81	peak		
2	*	5570.000	44.17	-13.74	30.43	54.00	-23.57	AVG		

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

Operator: KK

File :TUV 9\Data :#528

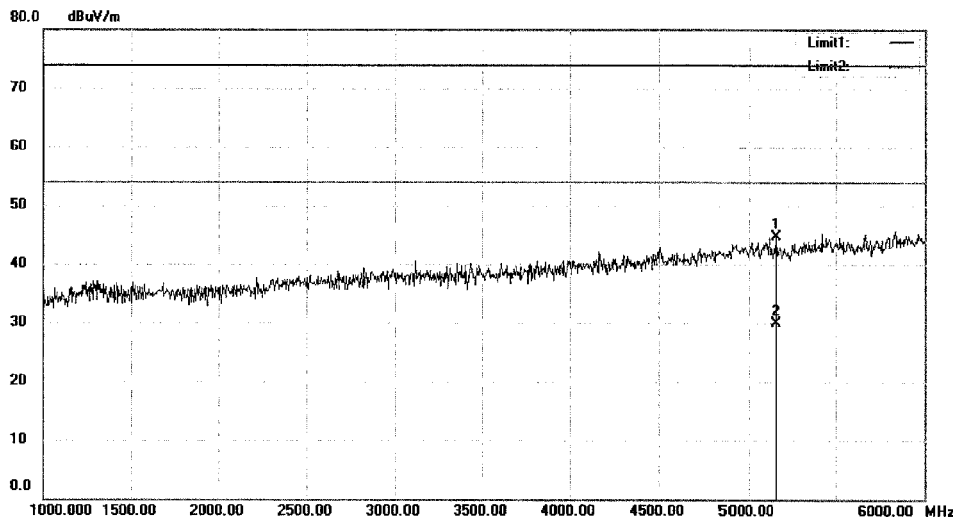
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Radiated Emission Measurement

File :TUV 9 Data :#523 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Video Play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5155.000	58.86	-14.24	44.62	74.00	-29.38	peak			
2	*	5155.000	44.05	-14.24	29.81	54.00	-24.19	AVG			

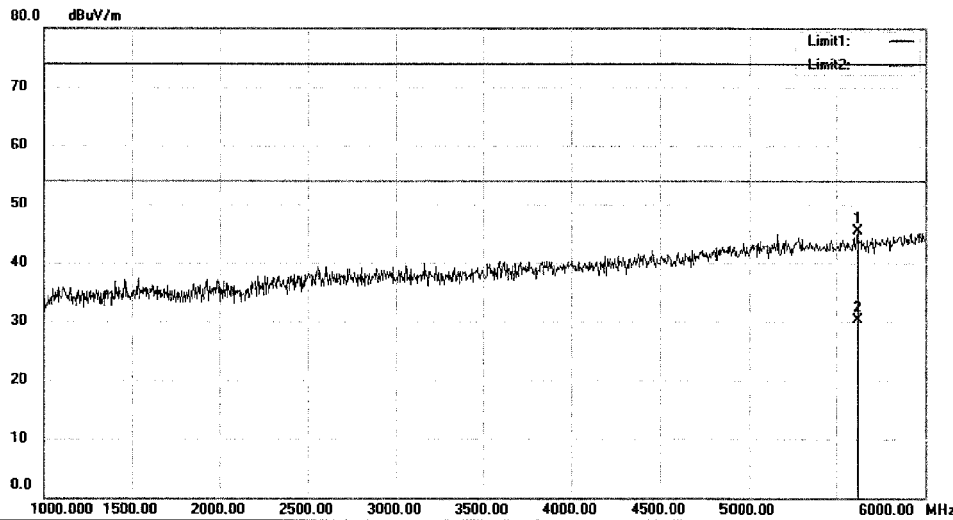
*:Maximum data x:Over limit !:over margin

Operator: KK

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Radiated Emission Measurement

File: TUV 9 Data: #524 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play(Memory)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		5620.000	59.23	-13.68	45.55	74.00	-28.45	peak		
2	*	5620.000	43.91	-13.68	30.23	54.00	-23.77	AVG		

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

Operator: KK

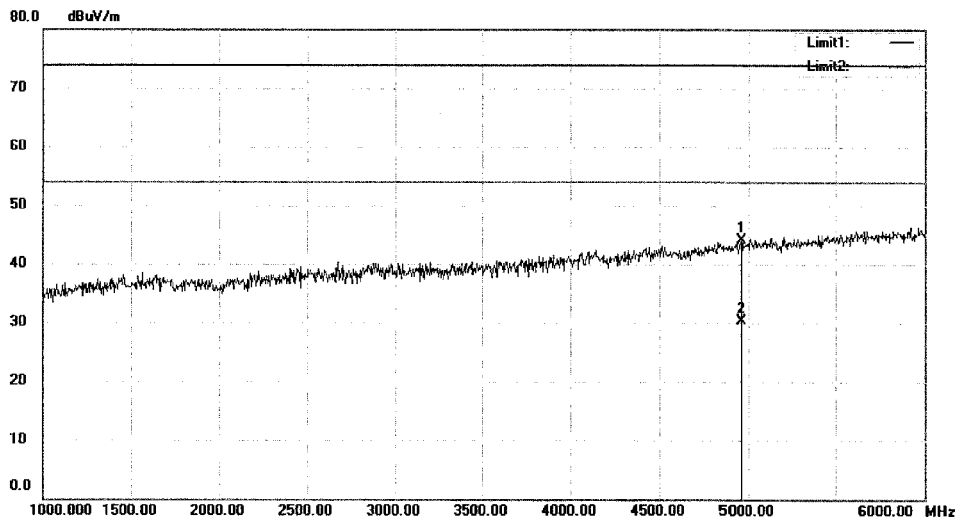
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Radiated Emission Measurement

File:TUV 9 Data:#521 Date:2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:Video Play(SD Card)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		4955.000	59.11	-14.98	44.13	74.00	-29.87	peak	
2	*	4955.000	45.21	-14.98	30.23	54.00	-23.77	AVG	

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

Operator: KK

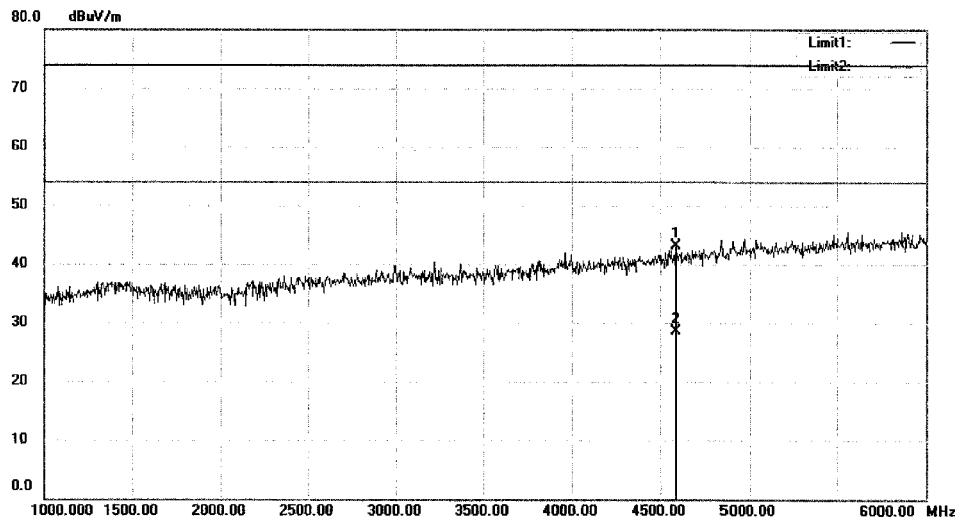
File:TUV 9\Data:#521

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Radiated Emission Measurement

File: TUV 9 Data: #522 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: Video Play(SD Card)
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		4590.000	59.50	-16.35	43.15	74.00	-30.85	peak	Comment
2	*	4590.000	44.89	-16.35	28.54	54.00	-25.46	AVG	

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

Operator: KK

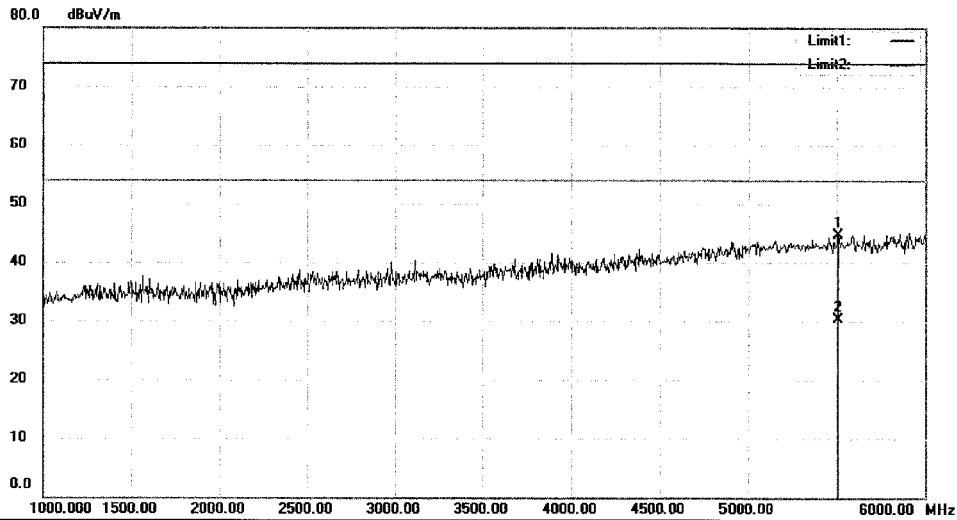
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Radiated Emission Measurement

File :TUV 9 Data :#529 Date: 2015/09/22



Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode:USB Link
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree		
1		5510.000	58.58	-13.81	44.77	74.00	-29.23			peak	
2	*	5510.000	44.04	-13.81	30.23	54.00	-23.77			AVG	

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

Operator: KK

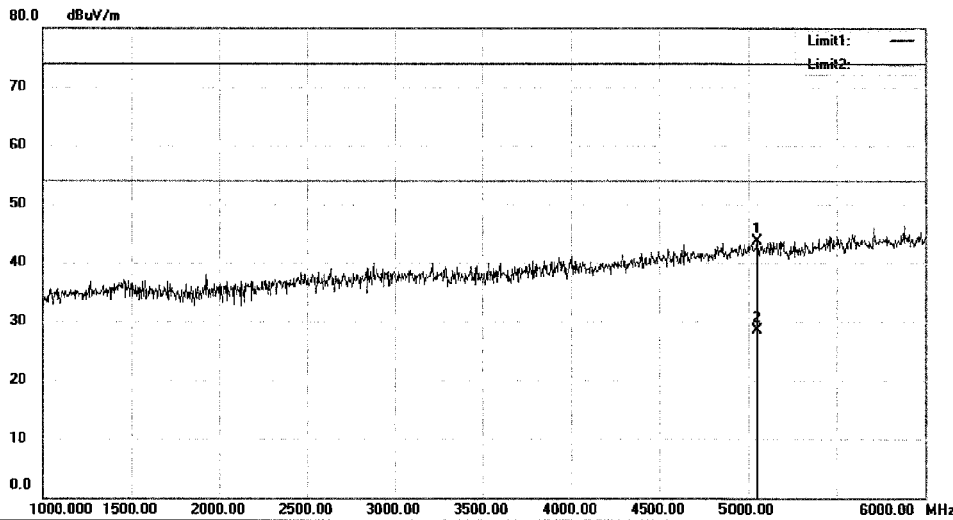
File :TUV 9\Data :#529

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Radiated Emission Measurement

File: TUV 9 Data: #530 Date: 2015/09/22



Site: 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
 Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 53 %
 EUT: MID
 M/N: MID1102-MA; DL1168A
 Mode: USB Link
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		5050.000	58.10	-14.36	43.74	74.00	-30.26	peak		
2	*	5050.000	42.78	-14.36	28.42	54.00	-25.58	AVG		

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

Operator: KK

File: TUV 9\Data: #530

Page: 1

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission of below 1GHz



Photograph 3: Set-up for Radiated Emission of above 1GHz



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