



EMC EMISSION - TEST REPORT

Report Number : **64.711.17.03913.01 – (E)** Date of Issue: 2017-11-20

Model / Serial No. : See attachment model list (for Appendix B) / NIL

Product Type : Multi-Split Type Air Conditioner (Outdoor unit)

Trade Name : Midea, MDV

Applicant / Manufacturer / License holder : GD Midea Heating & Ventilating Equipment CO.,LTD.

Address : Penglai Industry Road, Beijiao, Shunde, Foshan,
: Guangdong, P. R. China

Test Result : Positive Negative



Total pages including Appendices : 68

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China

EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to the following regulations:

- EN 61000-6-3:2007+A1:2011

- EN 61000-6-4:2007+A1:2011

- EN 55014-1:2006+A1:2009+A2:2011

- Household appliances and similar

- Portable tools

- Semiconductor devices

- IEC 61000-3-2:2014

- IEC 61000-3-3:2013

- IEC 61000-3-11:2000

- IEC 61000-3-12:2011

Environmental Conditions In The Laboratory:

	<u>Actual</u>
Temperature:	: 28 °C for cooling, 17°C for heating
Relative Humidity:	: 40-55 %
Atmospheric Pressure:	: 1010-1020 mBar

Power Supply Utilized:

Power supply system : 400V / 50Hz / 3 ϕ (for outdoor unit)

STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error (please refer to each test item). Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Symbol Definitions:

- - Applicable
- - Not Applicable

Test laboratory:

■ - Midea
Add: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, P. R. China

■ - Inspection and Quarantine Technology Centre of Guangdong Entry-Exit Inspection and Quarantine Bureau
Add: No.3, Desheng East Road, Shunde, Daliang, Foshan, Guangdong, China



Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The **CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE)** measurements were performed at the following test location:

- Test not applicable

■ - Test Area (Midea) - Shielded room: Bare shielded room

Test Equipment Used:

	Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ -	ESCI	Rohde & Schwarz	EMI Test Receiver	100786	2018-08-22
■ -	ESH3-Z2	Rohde & Schwarz	Pulse limiter	100917	2018-08-22
■ -	NSLK8128	SCWARZBECK	LISN	249	2018-01-02
■ -	NNLK8129	SCWARZBECK	LISN	8129-237	2018-09-28
□ -	DIA1512D	Schaffner	Click analyzer	24232	2018-08-22
□ -			Artificial Hand		

Measurement uncertainty: $\pm 4.0\text{dB}$

Remarks: All test equipments used are calibrated on a regular basis.



Emissions Test Conditions: RADIATED EMISSIONS (Electric Field): 30MHz – 6000MHz

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-6000 MHz, were tested in a horizontal and vertical polarization at the following test location:

- Test not applicable

■ - Test Area (IQTC) - Anechoic ferrite lined shielded room

Testing was performed at a test distance of:

- 3 meters

■ - 10 meters

Test Equipment Used:

	Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ -	ESU 40	Rohde & Schwarz	EMI Test Receiver	100298	2018-08-14
■ -	CBL6112D	TESEQ	Bi-Log Antenna	25225	2018-01-10
■ -	PAP-0203-30	Compliance Direction System	Pre-amplifier	22027	2018-01-10

Measurement uncertainty: ± 5.1 dB

Remarks: All test equipments used are calibrated on a regular basis.



Emissions Test Conditions: INTERFERENCE POWER

The *INTERFERENCE POWER* measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location:

- Test not applicable

- Test Area (Midea) - Shielded room: Bare shielded room

Test Equipment Used:

	Model Number	Manufacturer	Description	Serial Number	Cal. Due
<input type="checkbox"/>	ESCI	Rohde & Schwarz	EMI Test Receiver	100786	2018-08-22
<input type="checkbox"/>	ESH3-Z2	Rohde & Schwarz	Pulse limiter	100917	2018-08-22
<input type="checkbox"/>	MDS-21	Rohde & Schwarz	Absorbing Clamp	100324	2018-09-07

Remarks: All test equipments used are calibrated on a regular basis.



Emissions Test Conditions: CONDUCTED EMISSIONS (Harmonics and Flicker)

The *Harmonic Current Emissions and Voltage Fluctuations and Flicker* measurements were performed at the following test location:

- Test not applicable

- Test Area (Midea) - Laboratory open area

Test Equipment Used:

Model Number	Manufacturer	Description	Serial Number	Cal. Due
<input type="checkbox"/> - MX45	CI	Harmonic current & Flicker tester	72521	2018-06-02
<input type="checkbox"/> - PACS-3	CI	V-dip tester	57814	2018-06-02
<input type="checkbox"/> - DPA 503N/AIF 503 S1	EM TEST	Harmonic current & Flicker tester	V1019106581	2017-11-24
<input type="checkbox"/> - ACS 503	EM TEST	V-dip tester	V1019106588	2017-11-24

Remarks: All test equipments used are calibrated on a regular basis.



Equipment Under Test (EUT) Test Operation Mode - Emissions Tests:

The equipment under test was operated under the following conditions during emissions testing:

- Standby
- Test Program (H - Pattern)
- Test Program (Color Bar)
- Test Program (Customer Specified)
- Normal Operating Mode
- _____

Configuration of the equipment under test:

- See Constructional Data Form in Appendix B
- See Product Information Form(s) in Appendix B

The following peripheral devices and interface cables were connected during the testing:

- | | | |
|--|------------|--|
| <input checked="" type="checkbox"/> - shielded cables | Type : | Indoor unit to outdoor unit connect line |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input type="checkbox"/> - _____ | Type : | _____ |
| <input checked="" type="checkbox"/> - unshielded power cable | | |
| <input type="checkbox"/> - unshielded cables | | |
| <input type="checkbox"/> - shielded cables | TUVPS.No.: | _____ |
| <input type="checkbox"/> - customer specific cables | | |
| <input type="checkbox"/> - _____ | | |
| <input type="checkbox"/> - _____ | | |



Emissions Test Results:

Conducted Emissions, 9/150/450 kHz - 30 MHz

- PASS - FAIL - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: According pre-test was applied with the highest emissions were detected Operation Mode (Please refer Appendix A test data).

Radiated Emissions (Electric Field), 30 MHz - 6000 MHz

- PASS - FAIL - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: According pre-test was applied with the highest emissions were detected Operation Mode (Please refer Appendix A test data).

The highest internal frequency of the EUT is less than 108 MHz, the measurement was made up to 1 GHz.

Interference Power at the Mains and Interface Cables, 30 MHz - 300 MHz

- PASS - FAIL - NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

Harmonic Current Emissions and Voltage Fluctuations and Flicker

- PASS - FAIL - NOT APPLICABLE

Harmonic measurement exceeding limit _____ Above at _____ Harmonic

Flicker measurement exceeding limit _____ Above the _____ Requirement

Remarks: _____



China

GENERAL REMARKS:

Please refer to remarks on page B2 of B8

SUMMARY:

All tests according to the regulations cited on page 3 were

- - Performed
- - **Not** Performed

The Equipment Under Test

- - **Fulfills** the general approval requirements cited on page 3.
- - **Does not** fulfill the general approval requirements cited on page 3.

Testing Start Date: 2017-06-20

Testing End Date: 2017-09-01

- TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch –

Reviewed by:

Prepared by:



Tony Liu



Mike Zhuo



China

Appendix A

Test Setup Photos

and

Test Data Sheets

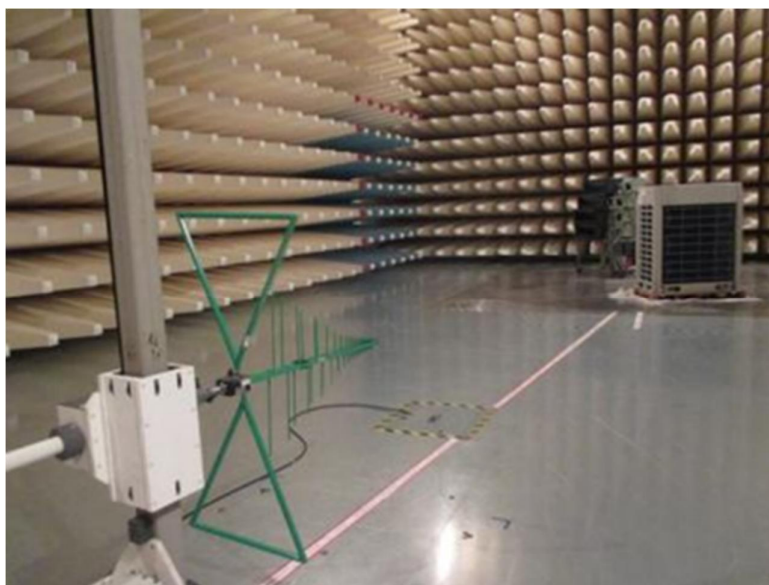
Photograph of Test Setup:

Conducted Emissions, 150 kHz – 30 MHz



Photograph of Test Setup:

Radiated Emissions (Electric Field), 30 MHz – 1000 MHz



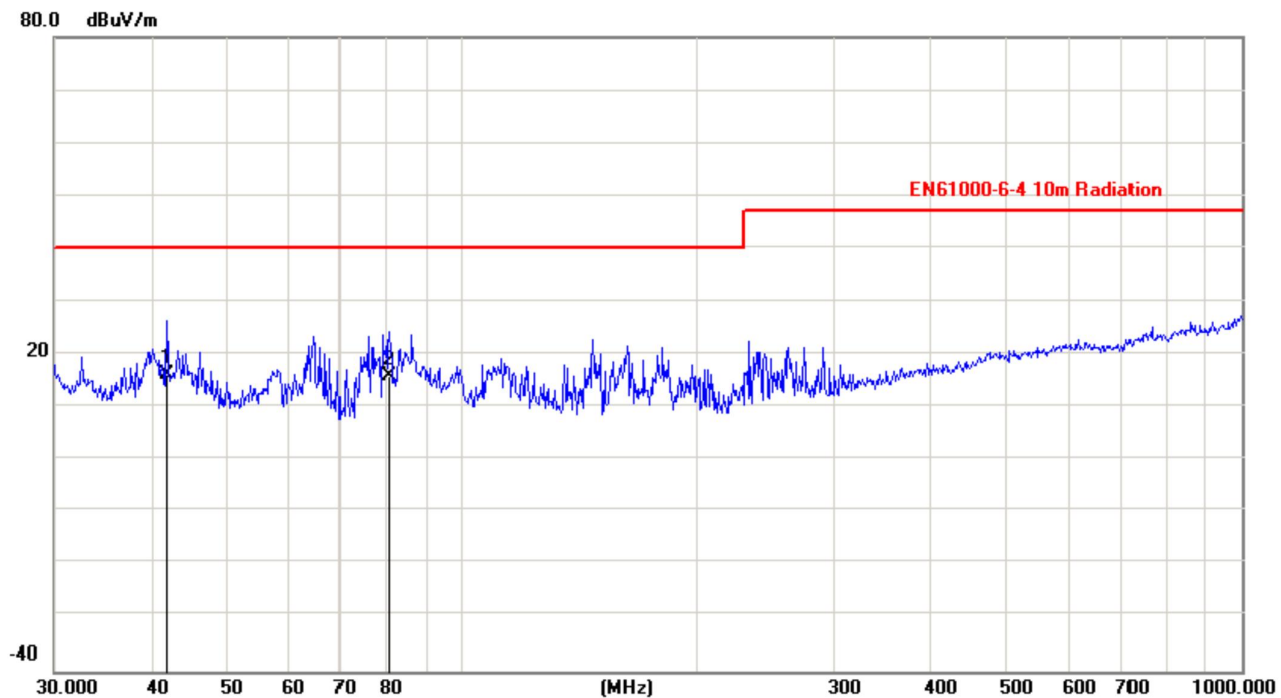


China

RADIATION - TEST (ELECTR. FIELD)

Frequency range: 30MHz-1000MHz

Ant. Polarization: Horizontal



Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
41.8596	-21.48	37.78	16.30	40.00	-23.70	QP
80.6442	-25.68	41.78	16.10	40.00	-23.90	QP



China

Ant. Polarization: Vertical



Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
30.1054	-16.43	40.73	24.30	40.00	-15.70	QP
44.5868	-23.48	49.58	26.10	40.00	-13.90	QP

Model : MV6-615WV2GN1-E
 Operation Mode : Cooling mode

	Date	Name
Tested by	2017-08-31	Mike Zhuo



China

Conducted Emission (Peak+AV detection)

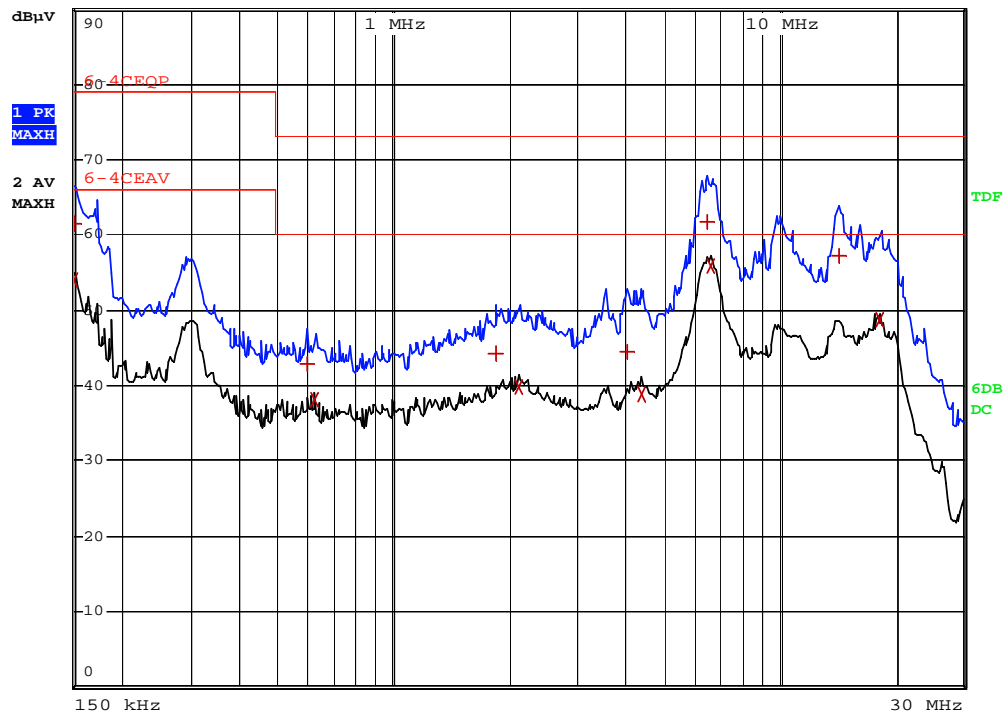
Test Spec: L1



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 30.JUN.2017 10:07:08



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	150 kHz	61.63	-17.36
2 Average	150 kHz	53.90	-12.09
1 Quasi Peak	594 kHz	42.78	-30.21
2 Average	626 kHz	38.11	-21.88
1 Quasi Peak	1.85 MHz	44.38	-28.61
2 Average	2.118 MHz	39.83	-20.16
1 Quasi Peak	4.046 MHz	44.62	-28.37
2 Average	4.394 MHz	38.85	-21.14
1 Quasi Peak	6.55 MHz	61.75	-11.24
2 Average	6.642 MHz	55.84	-4.15
1 Quasi Peak	14.266 MHz	57.22	-15.77
2 Average	18.186 MHz	48.70	-11.29

Date: 30.JUN.2017 10:06:55



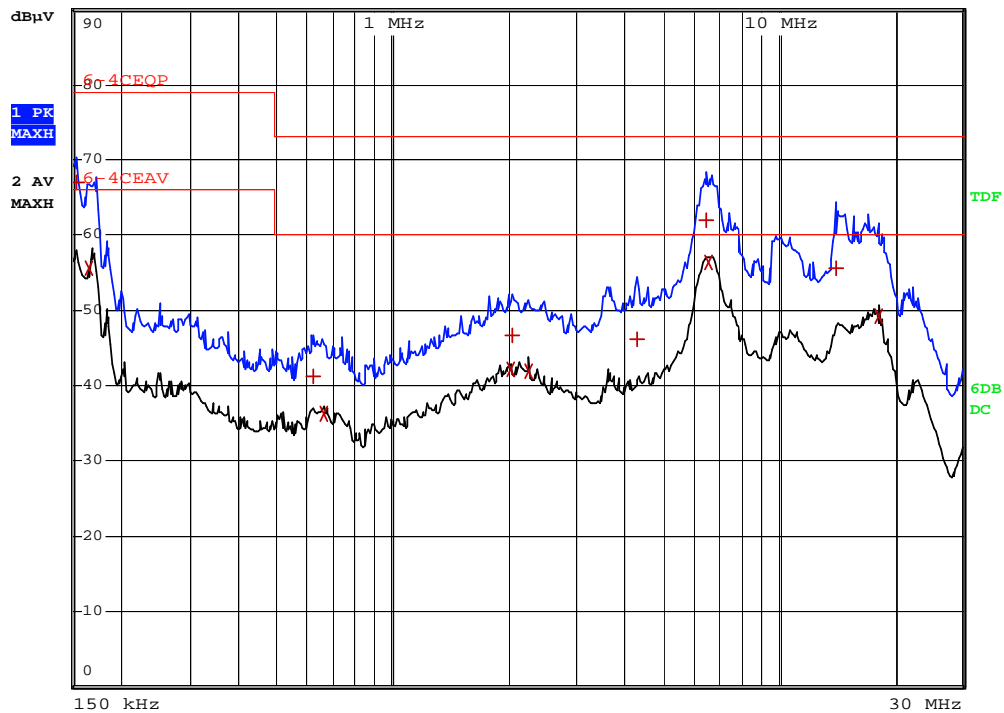
China

Test Spec: L2



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 30.JUN.2017 10:09:24



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	154 kHz	66.99	-12.00
2 Average	166 kHz	55.56	-10.44
1 Quasi Peak	622 kHz	41.20	-31.79
2 Average	662 kHz	36.32	-23.67
2 Average	2.022 MHz	42.06	-17.93
1 Quasi Peak	2.058 MHz	46.69	-26.30
2 Average	2.262 MHz	41.86	-18.14
1 Quasi Peak	4.314 MHz	46.18	-26.81
1 Quasi Peak	6.49 MHz	62.05	-10.94
2 Average	6.578 MHz	56.23	-3.76
1 Quasi Peak	14.186 MHz	55.57	-17.42
2 Average	18.154 MHz	49.21	-10.78

Date: 30.JUN.2017 10:09:10



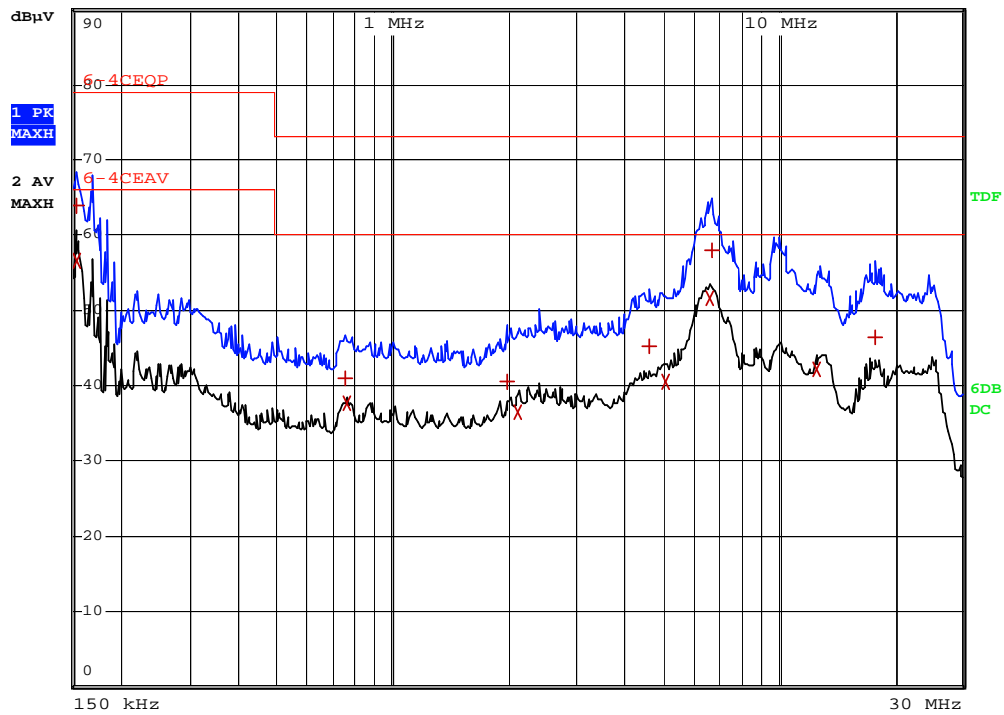
China

Test Spec: L3



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 30.JUN.2017 09:58:47



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	154 kHz	63.87	-15.12
2 Average	154 kHz	56.51	-9.48
1 Quasi Peak	754 kHz	40.86	-32.13
2 Average	762 kHz	37.76	-22.23
1 Quasi Peak	1.994 MHz	40.39	-32.60
2 Average	2.118 MHz	36.44	-23.55
1 Quasi Peak	4.662 MHz	45.30	-27.69
2 Average	5.126 MHz	40.54	-19.45
2 Average	6.69 MHz	51.67	-8.32
1 Quasi Peak	6.746 MHz	57.90	-15.09
2 Average	12.626 MHz	42.17	-17.82
1 Quasi Peak	17.786 MHz	46.44	-26.55

Date: 30.JUN.2017 09:58:12



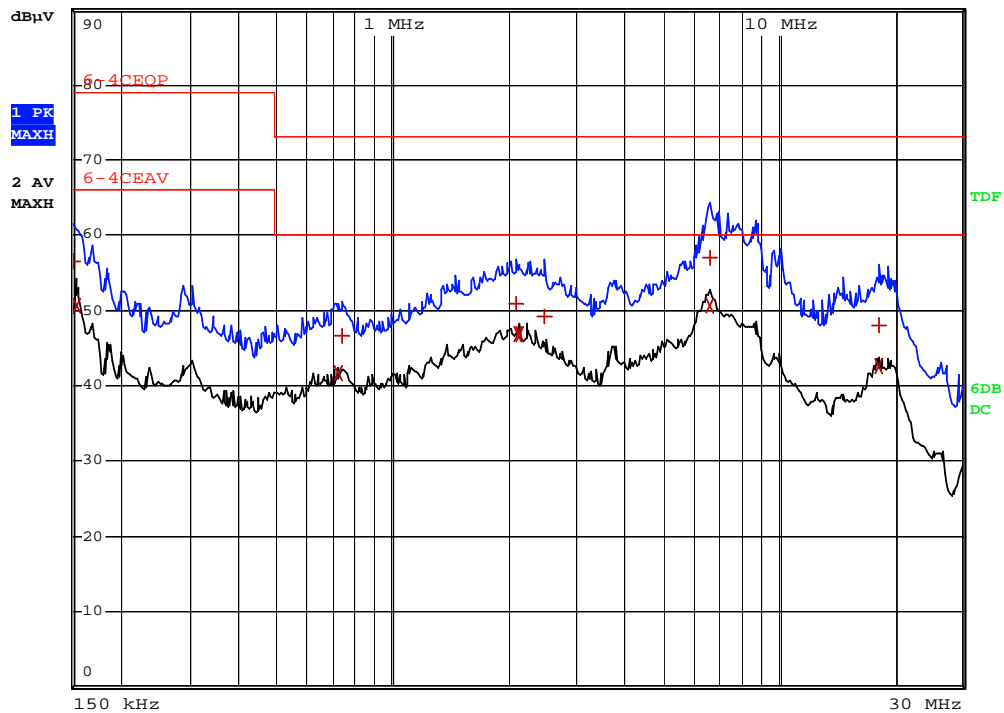
China

Test Spec: N



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 30.JUN.2017 10:12:04



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	150 kHz	56.64	-22.35
2 Average	154 kHz	50.58	-15.41
2 Average	726 kHz	41.64	-18.35
1 Quasi Peak	742 kHz	46.64	-26.35
1 Quasi Peak	2.09 MHz	50.83	-22.16
2 Average	2.118 MHz	46.83	-13.16
2 Average	2.134 MHz	46.90	-13.09
1 Quasi Peak	2.474 MHz	49.18	-23.81
1 Quasi Peak	6.674 MHz	57.01	-15.98
2 Average	6.674 MHz	50.75	-9.24
2 Average	18.182 MHz	42.60	-17.39
1 Quasi Peak	18.282 MHz	48.16	-24.83

Date: 30.JUN.2017 10:11:50

Model : MV6-615WV2GN1-E
Operation Mode : Cooling mode

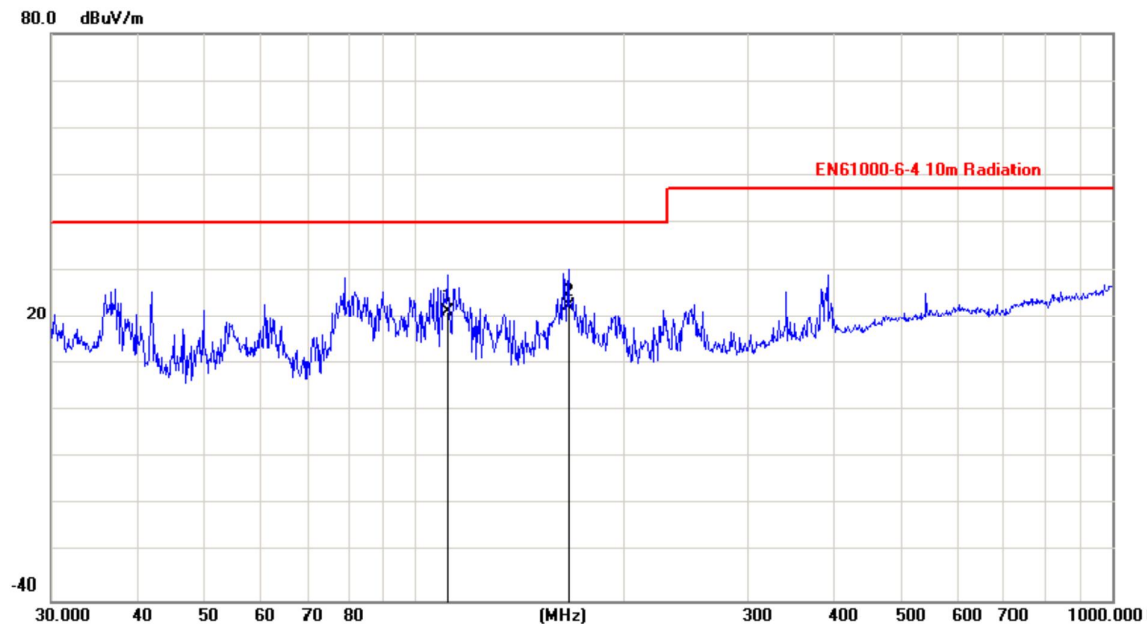
	Date	Name
Tested by	2017-06-30	Mike Zhuo



China

RADIATION - TEST (ELECTR. FIELD) Frequency range: 30MHz-1000MHz

Ant. Polarization: Horizontal

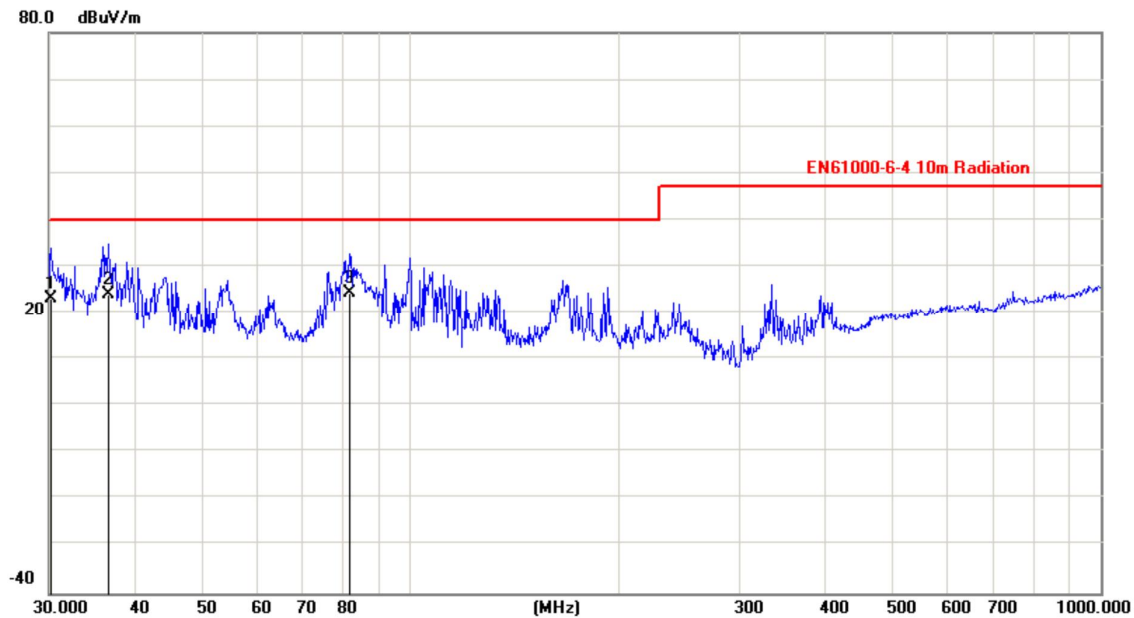


Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
111.3468	-20.17	41.57	21.40	40.00	-18.60	QP
166.0680	-22.47	45.07	22.60	40.00	-17.40	QP



China

Ant. Polarization: Vertical



Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
30.2111	-16.49	39.79	23.30	40.00	-16.70	QP
36.6375	-20.38	44.38	24.00	40.00	-16.00	QP
81.7831	-25.80	50.10	24.30	40.00	-15.70	QP

Model : MV6-i500WV2GN1-E
 Operation Mode : heating mode

	Date	Name
Tested by	2017-08-29	Mike Zhuo



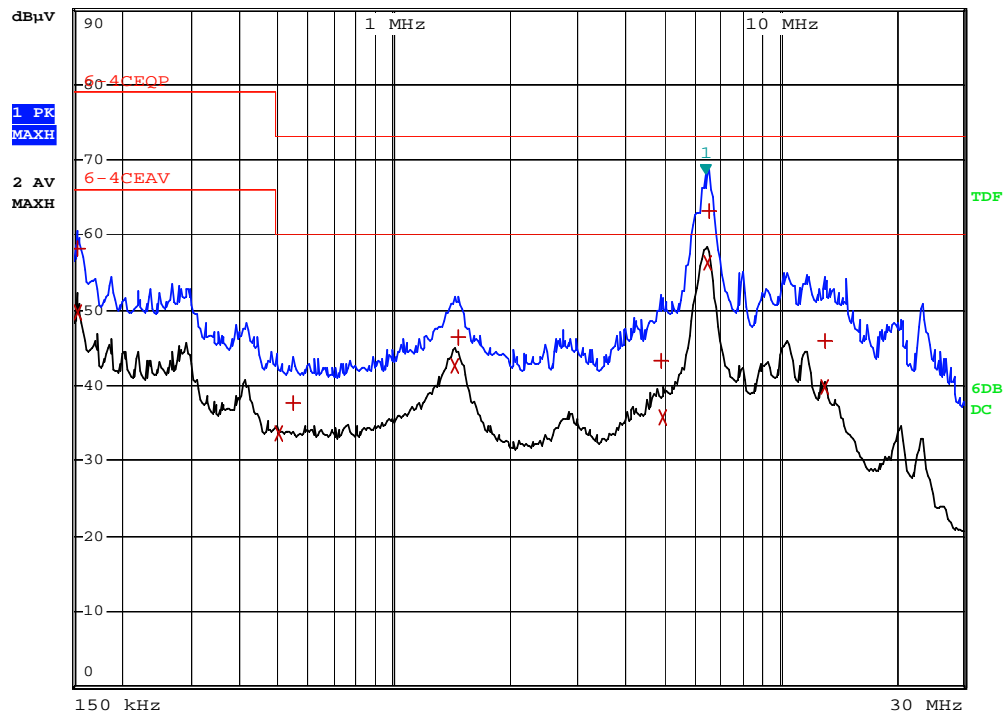
China

Conducted Emission (Peak+AV detection)

Test Spec: L1



RBW 9 kHz Marker 1 [T1]
MT 1 s 68.17 dB μ V
Att 10 dB AUTO PREAMP OFF 6.46200000 MHz



Date: 27.JUN.2017 10:18:06



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	154 kHz	58.28	-20.71
2 Average	154 kHz	49.83	-16.16
2 Average	506 kHz	33.65	-26.35
1 Quasi Peak	546 kHz	37.76	-35.23
2 Average	1.45 MHz	42.58	-17.41
1 Quasi Peak	1.474 MHz	46.38	-26.61
1 Quasi Peak	4.93 MHz	43.38	-29.61
2 Average	4.978 MHz	35.74	-24.25
2 Average	6.498 MHz	56.35	-3.64
1 Quasi Peak	6.594 MHz	63.20	-9.79
2 Average	13.062 MHz	39.78	-20.21
1 Quasi Peak	13.09 MHz	46.03	-26.96

Date: 27.JUN.2017 10:17:54

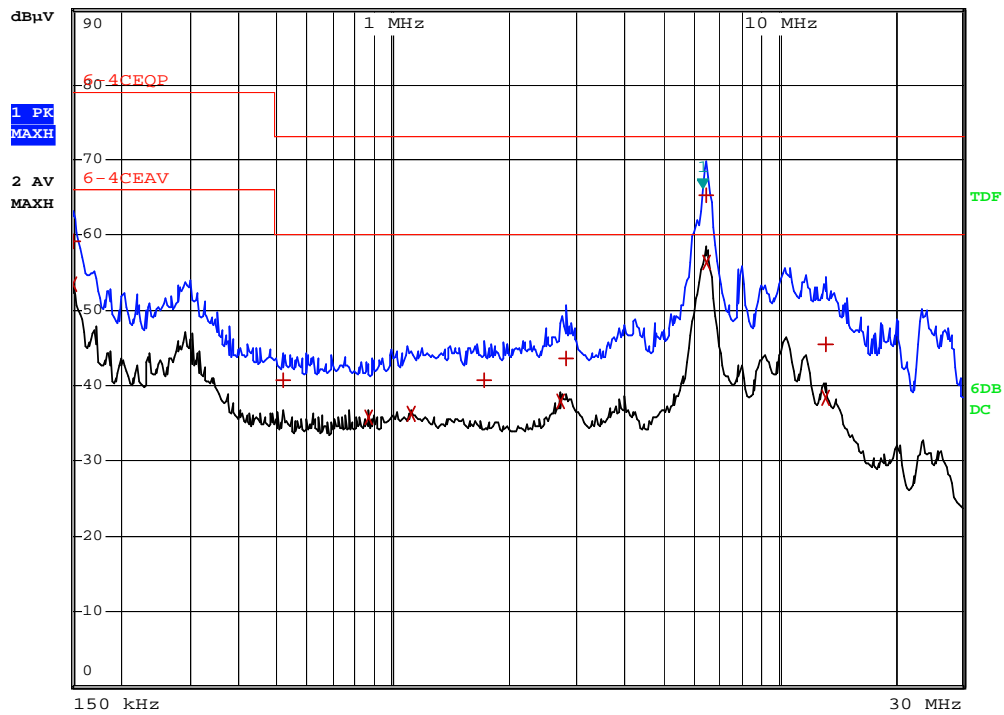


China

Test Spec: L2



RBW 9 kHz Marker 1 [T1]
MT 1 s 66.21 dBuV
Att 10 dB AUTO PREAMP OFF 6.41400000 MHz



Date: 27.JUN.2017 10:20:31



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	150 kHz	59.26	-19.73
2 Average	150 kHz	53.41	-12.58
1 Quasi Peak	518 kHz	40.80	-32.19
2 Average	866 kHz	35.86	-24.13
2 Average	1.122 MHz	36.23	-23.76
1 Quasi Peak	1.73 MHz	40.72	-32.27
2 Average	2.738 MHz	37.98	-22.01
1 Quasi Peak	2.818 MHz	43.54	-29.45
1 Quasi Peak	6.53 MHz	65.28	-7.71
2 Average	6.546 MHz	56.40	-3.60
1 Quasi Peak	13.218 MHz	45.50	-27.49
2 Average	13.258 MHz	38.46	-21.54

Date: 27.JUN.2017 10:20:16



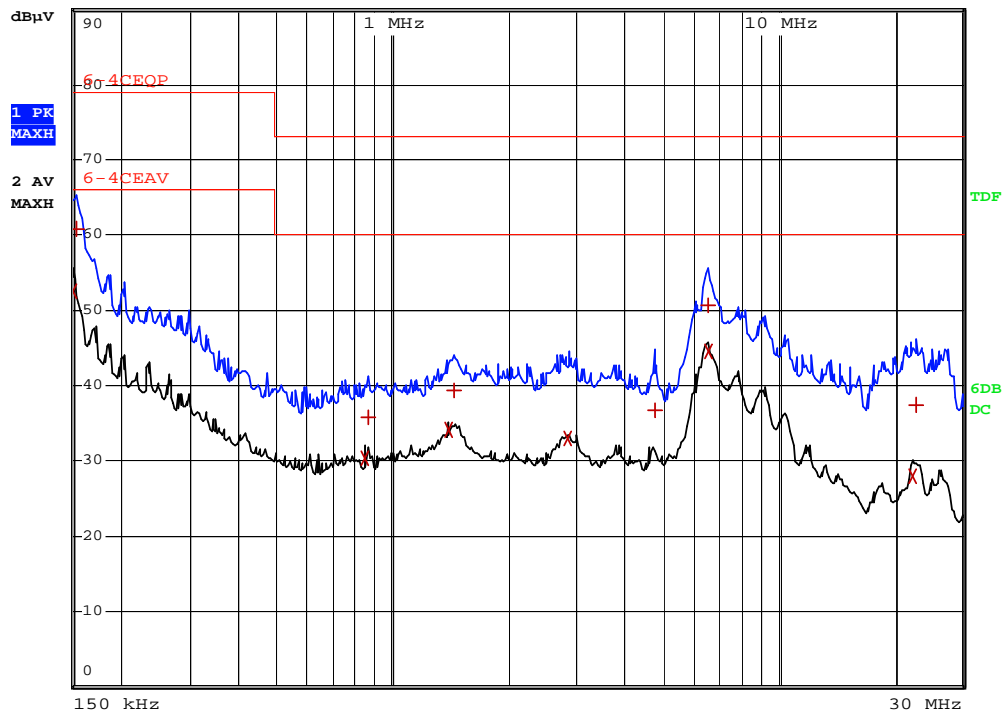
China

Test Spec: L3



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 27.JUN.2017 09:55:48



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
2 Average	150 kHz	52.33	-13.66
1 Quasi Peak	154 kHz	61.04	-17.96
1 Quasi Peak	642 kHz	35.44	-37.55
2 Average	770 kHz	29.99	-30.00
1 Quasi Peak	1.438 MHz	38.12	-34.87
2 Average	1.478 MHz	33.23	-26.76
1 Quasi Peak	2.786 MHz	39.76	-33.23
2 Average	2.866 MHz	33.08	-26.92
2 Average	6.386 MHz	41.80	-18.19
1 Quasi Peak	11.698 MHz	36.78	-36.21
2 Average	23.626 MHz	28.47	-31.52
1 Quasi Peak	23.802 MHz	37.86	-35.13

Date: 27.JUN.2017 10:22:38



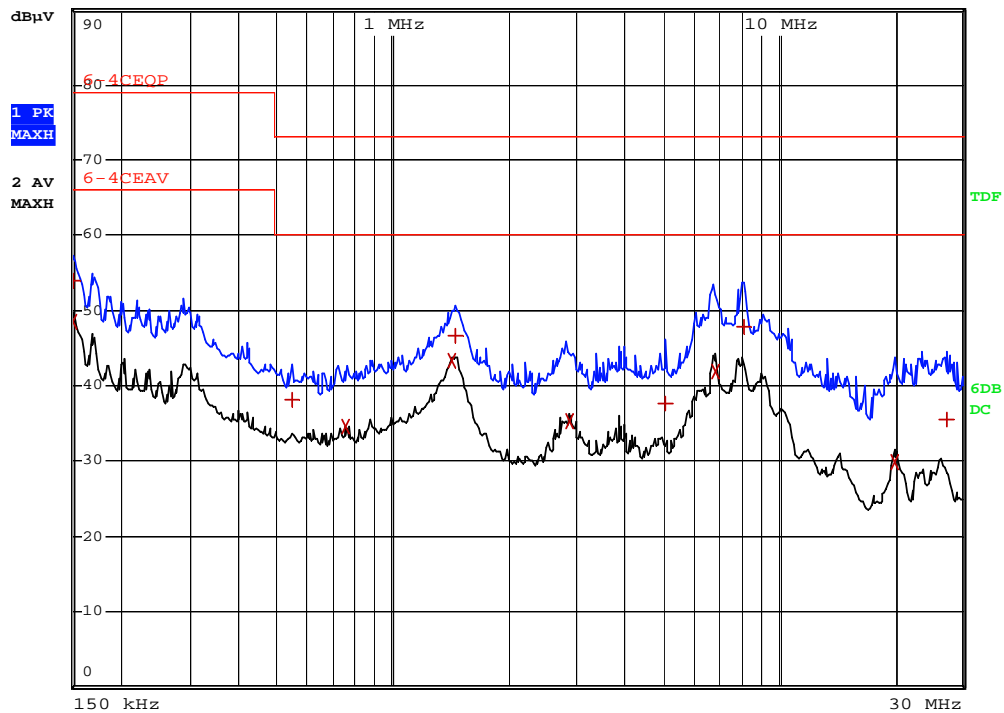
China

Test Spec: N



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 27.JUN.2017 10:13:40



China

EDIT PEAK LIST (Final Measurement Results)			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
Trace1:	6-4CEQP		
Trace2:	6-4CEAV		
Trace3:	---		
1 Quasi Peak	150 kHz	53.93	-25.07
2 Average	150 kHz	48.46	-17.53
1 Quasi Peak	550 kHz	38.26	-34.73
2 Average	754 kHz	34.57	-25.42
2 Average	1.426 MHz	43.44	-16.55
1 Quasi Peak	1.458 MHz	46.70	-26.29
2 Average	2.866 MHz	35.25	-24.75
1 Quasi Peak	5.118 MHz	37.64	-35.35
2 Average	6.898 MHz	41.86	-18.14
1 Quasi Peak	8.154 MHz	47.87	-25.12
2 Average	20.054 MHz	29.78	-30.21
1 Quasi Peak	27.206 MHz	35.57	-37.42

Date: 27.JUN.2017 10:13:28

Model : MV6-i500WV2GN1-E
Operation Mode : heating mode

	Date	Name
Tested by	2017-06-27	Mike Zhuo



China

RADIATION - TEST (ELECTR. FIELD) Frequency range: 30MHz-1000MHz

Ant. Polarization: Horizontal



Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
39.5757	-20.61	35.81	15.20	40.00	-24.80	QP
99.1797	-21.42	39.02	17.60	40.00	-22.40	QP
132.2205	-20.35	35.95	15.60	40.00	-24.40	QP



China

Ant. Polarization: Vertical



Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
32.0667	-17.49	43.69	26.20	40.00	-13.80	QP
39.4371	-21.54	47.34	25.80	40.00	-14.20	QP
99.5281	-21.55	46.95	25.40	40.00	-14.60	QP

Model : MV6-335WV2GN1-E
 Operation Mode : heating mode

	Date	Name
Tested by	2017-08-15	Mike Zhuo



China

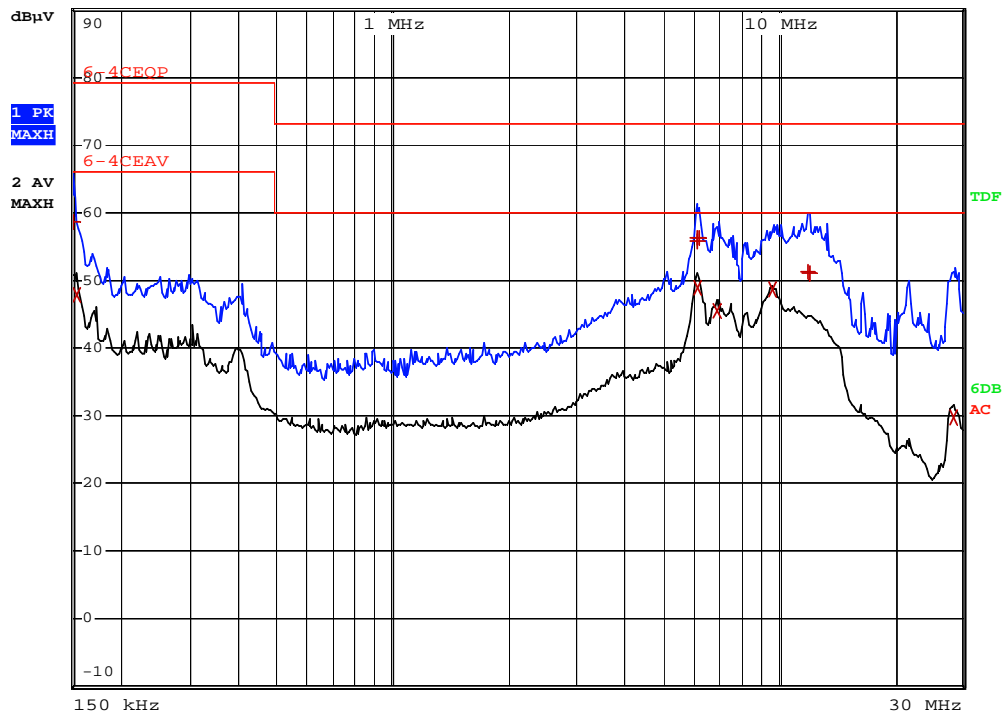
Conducted Emission (Peak+AV detection)

Test Spec: L1



RBW 9 kHz
MT 1 s
PREAMP OFF

Att 10 dB



Date: 21.JUN.2017 22:33:22



China

EDIT PEAK LIST (Final Measurement Results)				
Trace1:		6-4CEQP		
Trace2:		6-4CEAV		
Trace3:		---		
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
1 Quasi Peak	150 kHz	58.59	L1	-20.40
2 Average	154 kHz	47.99	L1	-18.00
1 Quasi Peak	6.178 MHz	56.15	L1	-16.84
1 Quasi Peak	6.194 MHz	55.66	L1	-17.33
2 Average	6.194 MHz	48.88	L1	-11.11
1 Quasi Peak	6.274 MHz	56.18	L1	-16.81
2 Average	6.93 MHz	45.55	L1	-14.44
2 Average	9.682 MHz	48.75	L1	-11.24
1 Quasi Peak	11.91 MHz	51.24	L1	-21.75
1 Quasi Peak	12.074 MHz	51.14	L1	-21.85
2 Average	28.402 MHz	29.86	L1	-30.14

Date: 21.JUN.2017 22:33:09



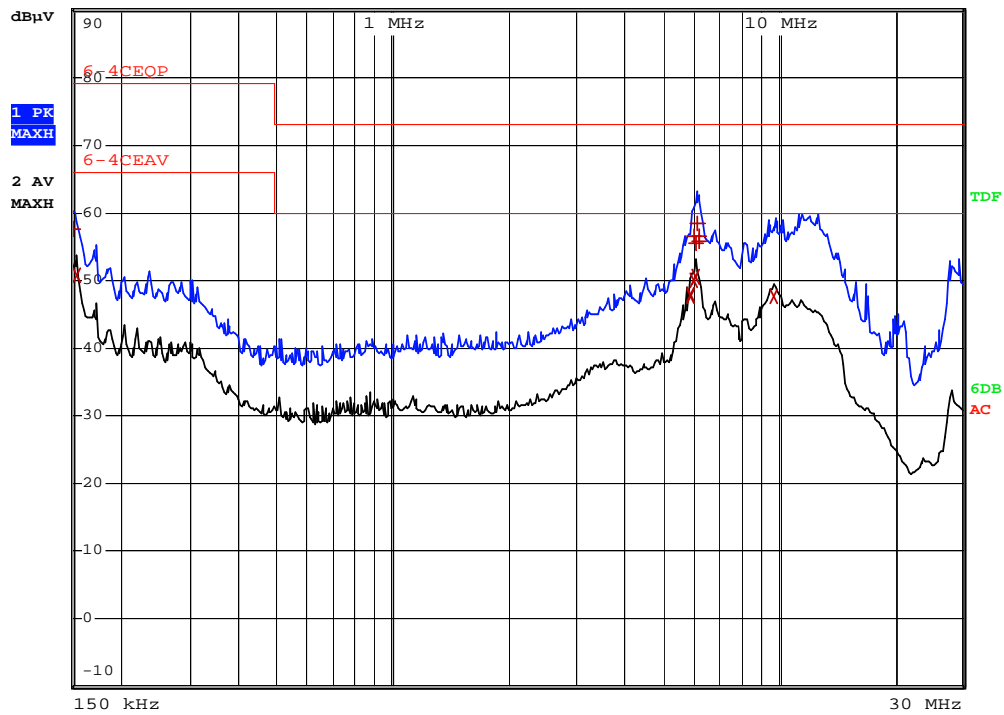
China

Test Spec: L2



RBW 9 kHz
MT 1 s
PREAMP OFF

Att 10 dB



Date: 21.JUN.2017 22:30:48



China

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	6-4CEQP			
Trace2:	6-4CEAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
1 Quasi Peak	150 kHz	57.69	L1	-21.31
2 Average	154 kHz	50.68	L1	-15.31
2 Average	5.906 MHz	47.66	L1	-12.33
2 Average	5.922 MHz	47.85	L1	-12.15
1 Quasi Peak	6.034 MHz	56.60	L1	-16.39
2 Average	6.034 MHz	49.87	L1	-10.13
1 Quasi Peak	6.122 MHz	55.47	L1	-17.52
2 Average	6.13 MHz	50.60	L1	-9.39
1 Quasi Peak	6.162 MHz	58.38	L1	-14.61
1 Quasi Peak	6.25 MHz	55.80	L1	-17.19
1 Quasi Peak	6.278 MHz	56.61	L1	-16.38
2 Average	9.794 MHz	47.64	L1	-12.35

Date: 21.JUN.2017 22:30:31



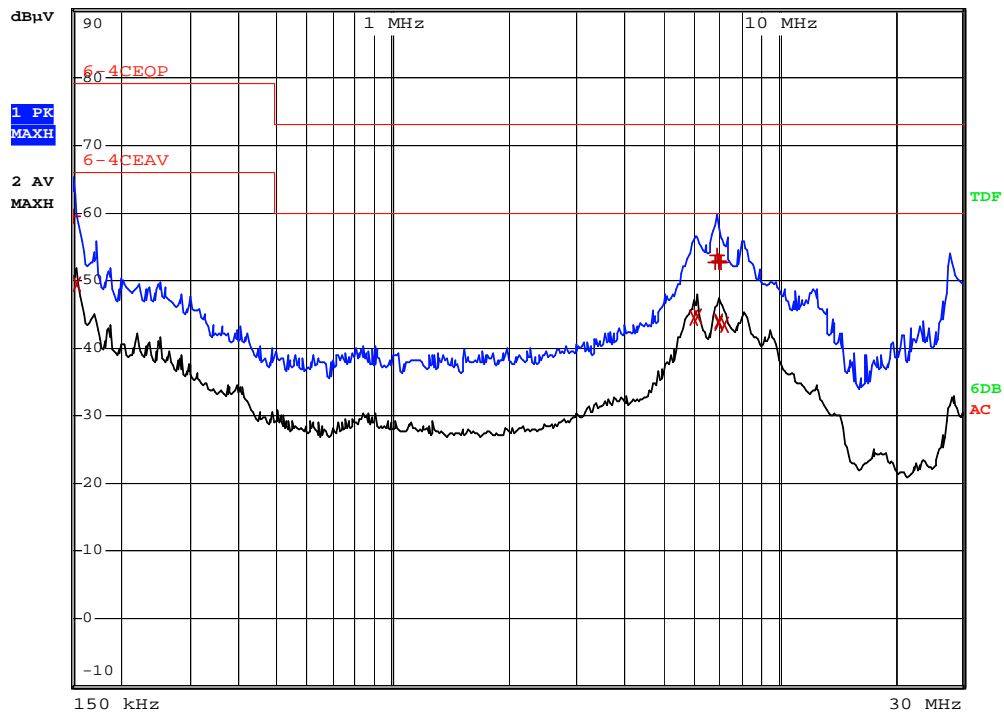
China

Test Spec: L3



RBW 9 kHz
MT 1 s
PREAMP OFF

Att 10 dB



Date: 21.JUN.2017 22:28:06



China

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	6-4CEQP			
Trace2:	6-4CEAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
1 Quasi Peak	150 kHz	59.50	L1	-19.49
2 Average	154 kHz	49.44	L1	-16.56
2 Average	6.05 MHz	44.42	L1	-15.57
2 Average	6.162 MHz	44.83	L1	-15.17
1 Quasi Peak	6.886 MHz	52.58	L1	-20.41
1 Quasi Peak	6.914 MHz	53.67	L1	-19.32
1 Quasi Peak	6.958 MHz	52.59	L1	-20.40
1 Quasi Peak	6.994 MHz	52.73	L1	-20.26
2 Average	7.01 MHz	43.68	L1	-16.31
2 Average	7.026 MHz	44.01	L1	-15.98
1 Quasi Peak	7.106 MHz	52.51	L1	-20.48
2 Average	7.278 MHz	43.51	L1	-16.48

Date: 21.JUN.2017 22:27:52



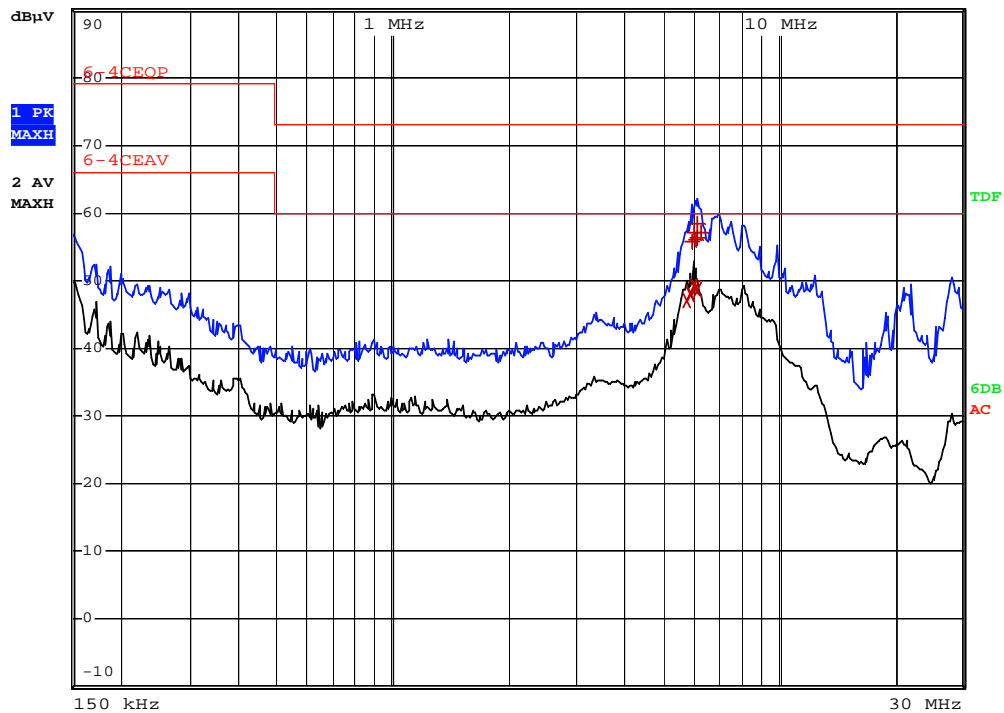
China

Test Spec: N



RBW 9 kHz
MT 1 s
PREAMP OFF

Att 10 dB



Date: 21.JUN.2017 22:36:00



China

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	6-4CEQP			
Trace2:	6-4CEAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
2 Average	5.81 MHz	46.97 L1		-13.02
2 Average	5.922 MHz	48.06 L1		-11.93
2 Average	5.938 MHz	47.76 L1		-12.23
1 Quasi Peak	6.006 MHz	55.82 L1		-17.18
1 Quasi Peak	6.034 MHz	57.06 L1		-15.93
2 Average	6.034 MHz	49.10 L1		-10.89
1 Quasi Peak	6.102 MHz	55.88 L1		-17.11
2 Average	6.146 MHz	48.82 L1		-11.17
2 Average	6.162 MHz	48.63 L1		-11.36
1 Quasi Peak	6.178 MHz	58.47 L1		-14.53
1 Quasi Peak	6.206 MHz	56.39 L1		-16.61
1 Quasi Peak	6.302 MHz	57.15 L1		-15.84

Date: 21.JUN.2017 22:35:46

Model : MV6-335WV2GN1-E
Operation Mode : heating mode

	Date	Name
Tested by	2017-06-21	Mike Zhuo



Appendix B

Constructional Data Form
and
Product Information Form(s)

Any safety relevant information or constructional aspect concerning the sample or equipment under test as submitted by the applicant / report holder / certificate holder or any authorized agent is deemed to have no adverse effect on the electromagnetic compatibility (EMC) performance. Insofar as safety or compliance with Low Voltage Directive (LVD) or any relevant directive is concerned, the applicant / report holder / certificate holder or any authorized agent is required, by virtue of the relevant EU Directive provisions, to have satisfied that the product concerned (for which a sample was tested) meets with LVD or other relevant directives before placing it on the market.

Where applicable, changes or modifications made to the original sample submitted for testing are documented herein. The applicant or manufacturer shall ensure that such changes or modifications are applied to the production units. Any further changes or modifications made to the production units may void the validity of this test report unless such changes or modifications have been formally assessed by TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch through technical evaluations or other means as appropriate and it has been confirmed that the EMC performance of such units is not adversely affected.

The enclosed, if any, circuit diagram / parts list / printed circuit board diagram / component layout / user manual are strictly for reference only. TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch shall not be held responsible for any error or omission in such documents. It is the manufacturer's responsibility to ensure that production units conform to the tested sample.

Attachment Model List

Table 1: model list of outdoor unit

Series	Model	Rated Voltage(V)	Rated current(A)
R1	MV6-i252WV2GN1-E	380-415, 3N~	24,0
R2	MV6-i280WV2GN1-E	380-415, 3N~	25,2
R3	MV6-i335WV2GN1-E	380-415, 3N~	26,4
R4	MV6-i400WV2GN1-E	380-415, 3N~	33,1
R5	MV6-i450WV2GN1-E	380-415, 3N~	33,1
R6	MV6-i500WV2GN1-E	380-415, 3N~	34,8
R7	MV6-i560WV2GN1-E	380-415, 3N~	45,9
R8	MV6-i615WV2GN1-E	380-415, 3N~	47,9
R14	MV6-252WV2GN1-E	380-415, 3N~	24,0
R15	MV6-280WV2GN1-E	380-415, 3N~	25,2
R16	MV6-335WV2GN1-E	380-415, 3N~	26,4
R17	MV6-400WV2GN1-E	380-415, 3N~	33,1
R18	MV6-450WV2GN1-E	380-415, 3N~	33,1
R19	MV6-500WV2GN1-E	380-415, 3N~	40,8
R20	MV6-560WV2GN1-E	380-415, 3N~	43,9
R21	MV6-615WV2GN1-E	380-415, 3N~	47,9

Remark:

The difference description is listed as below:

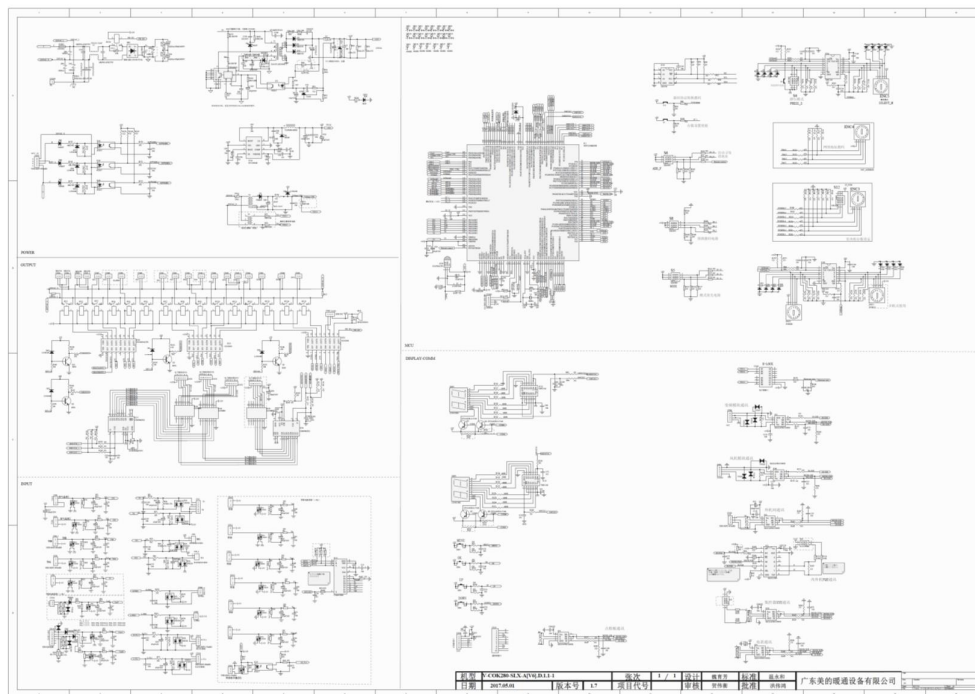
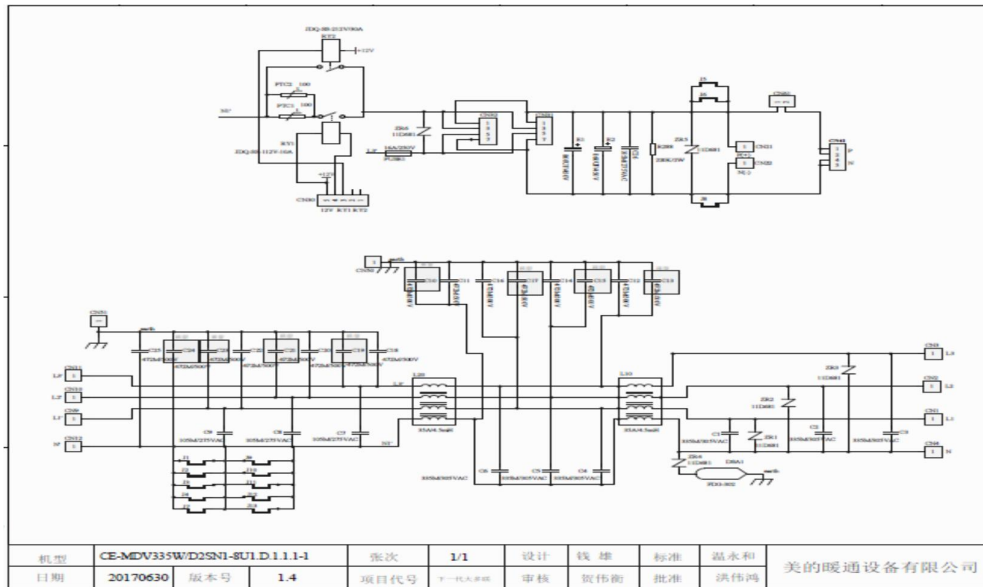
- a. models MV6-ixyzWV2GN1-E are identical to models MV6-xyzWV2GN1-E (xyz=252, 280, 335, 400, 450, 560, 615) respectively in key construction and components.
- b. The models “MV6-” series have a unidirectional valve intended to connect each other outdoor units. The models “MV6-i” series have no unidirectional valve and be as an independent operation isolated outdoor unit.
- c. model MV6-i500WV2GN1-E is identical to model MV6-500WV2GN1-E respectively except for the refrigerating system, the compressor and fan motor. MV6-i500WV2GN1-E has one compressor system, MV6-500WV2GN1-E has two compressors systems.
- d. models MV6-ixyzWV2GN1-E and MV6-xyzWV2GN1-E (xyz=252, 280, 335) are identical in key construction and components except for the model name.
- e. models MV6-ixyzWV2GN1-E and MV6-xyzWV2GN1-E (xyz=400, 450) are identical in key construction and components except for the model name.
- f. models MV6-xyzWV2GN1-E (xyz=500, 560, 615) are identical in construction and components except for the model name.
- g. models MV6-ixyzWV2GN1-E (xyz=560, 615) are identical in construction and components except for the model name.

So emission test are applied on MV6-i500WV2GN1-E & MV6-335WV2GN1-E.

Also immunity test are applied on MV6-i500WV2GN1-E & MV6-335WV2GN1-E.

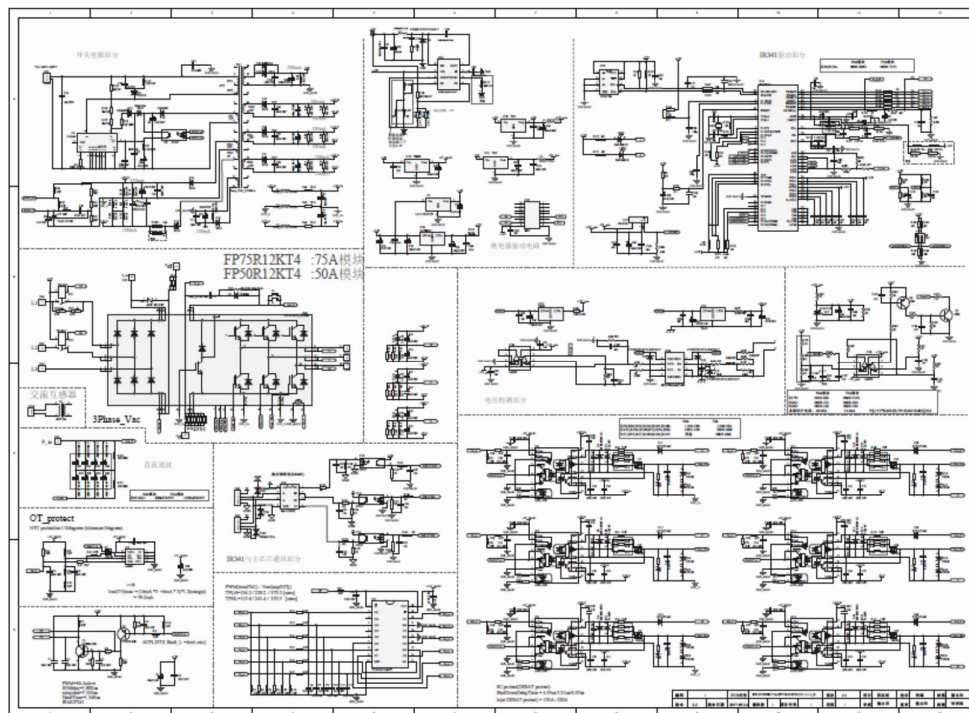
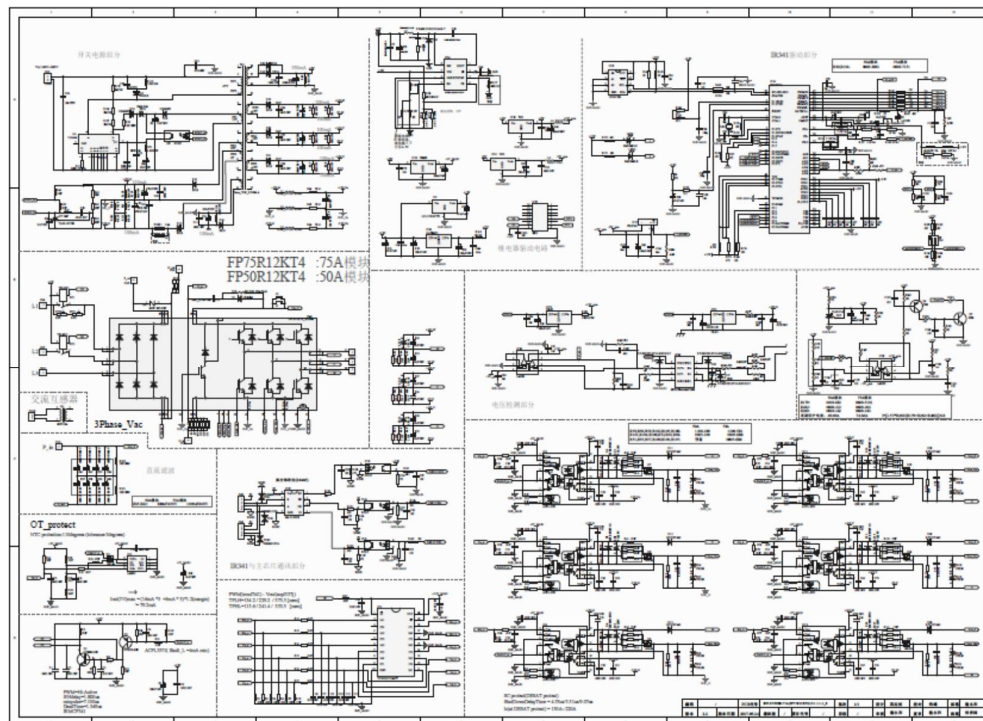


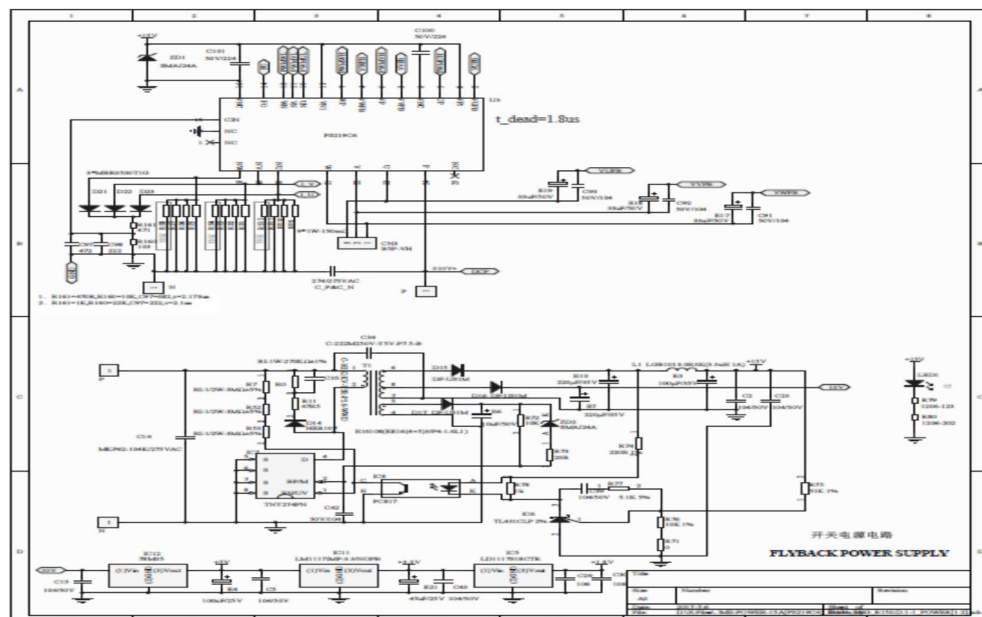
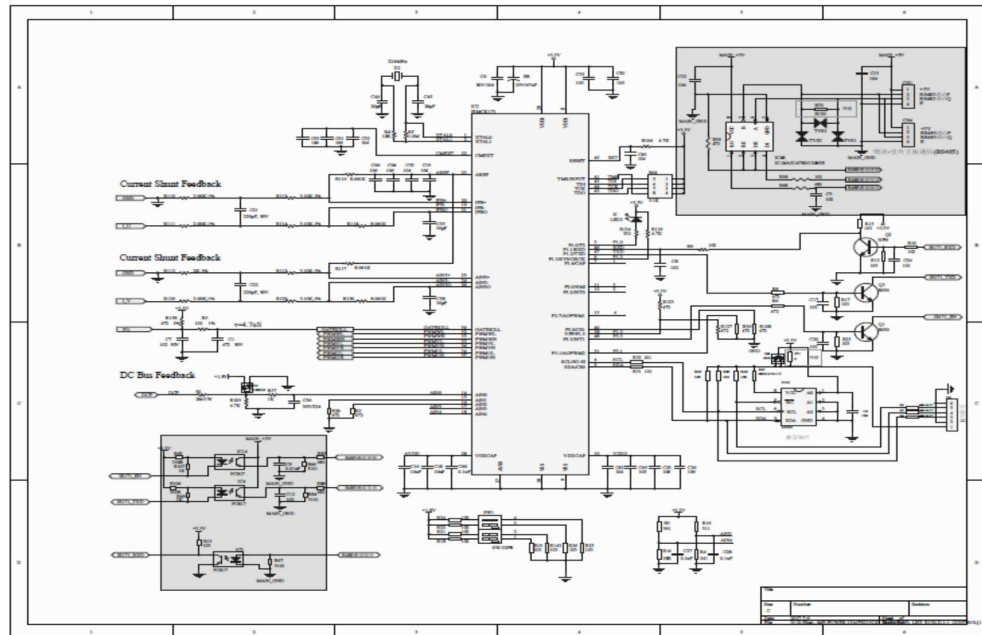
China





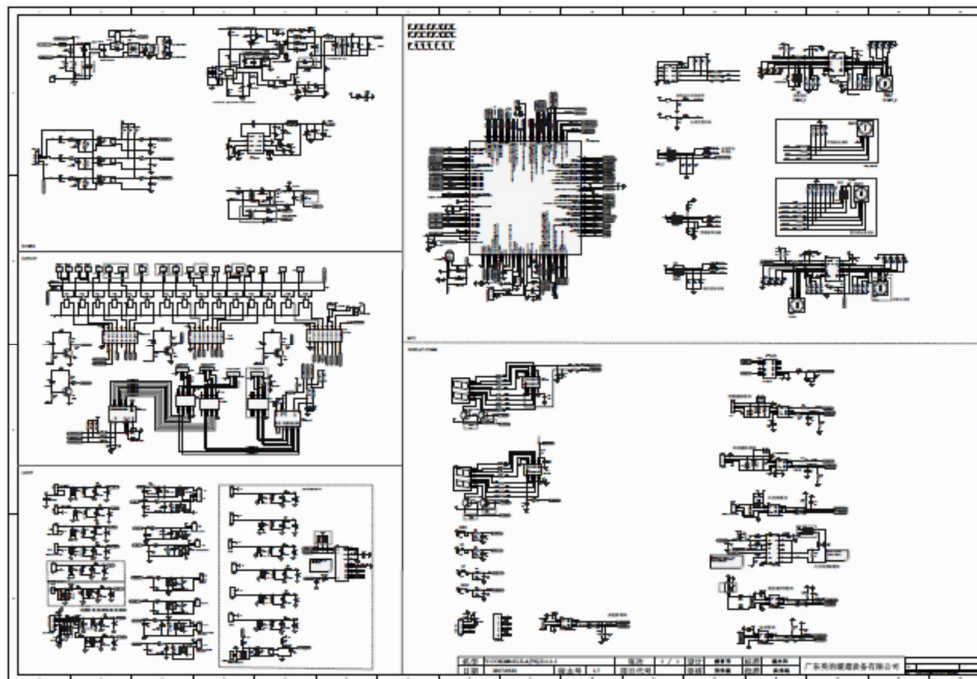
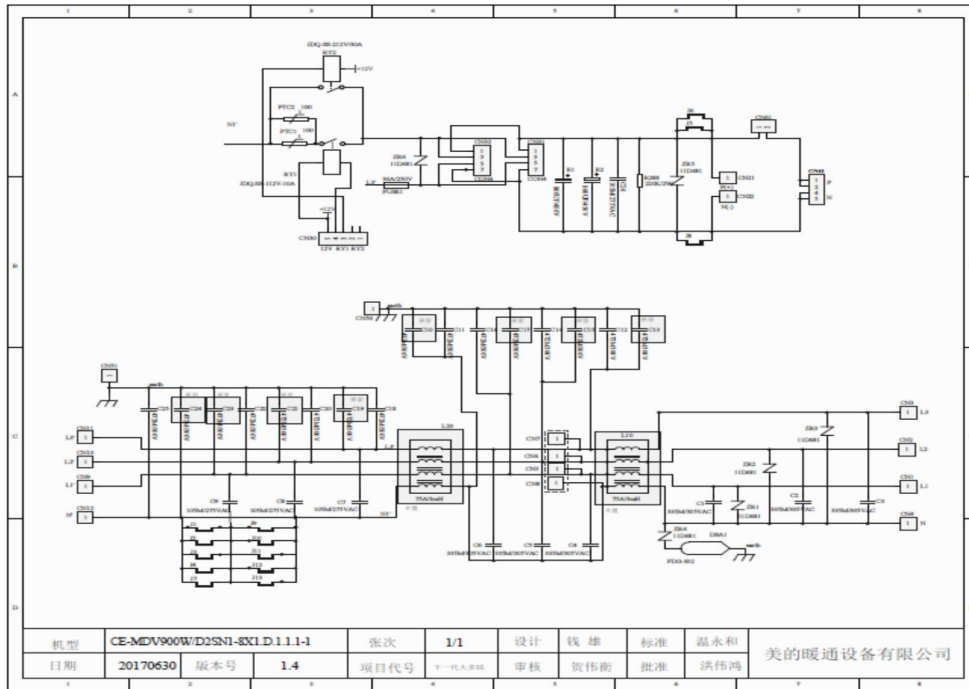
China

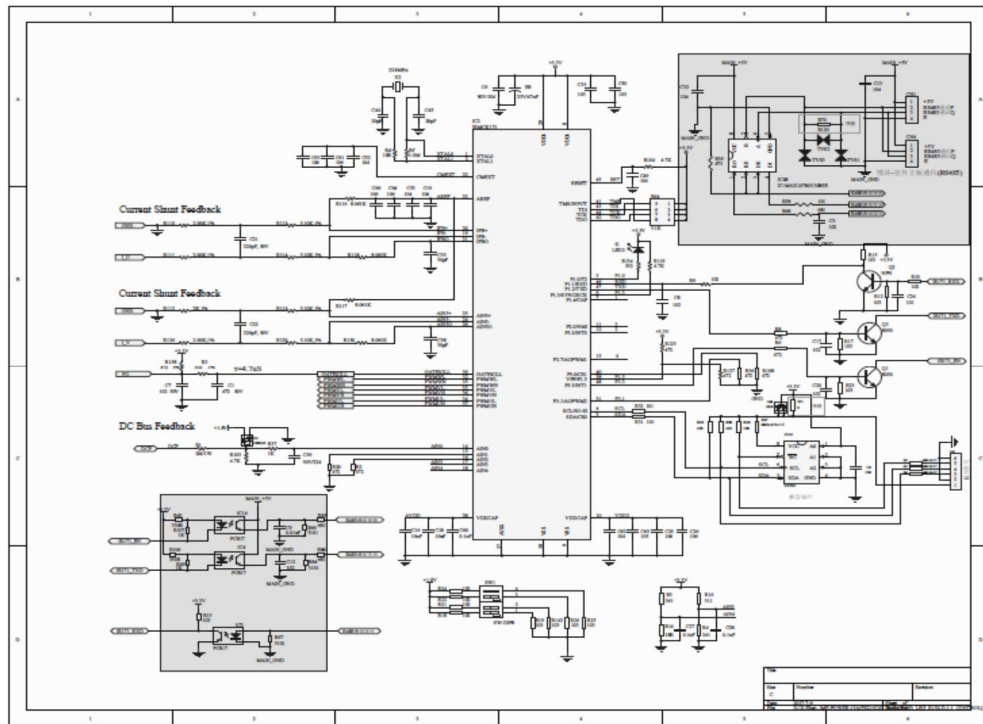






China







China

Appendix C

Constructional Photographs
of
Equipment under test (EUT)

Any safety relevant information or constructional aspect concerning the sample or equipment under test as submitted by the applicant / report holder / certificate holder or any authorized agent is deemed to have no adverse effect on the electromagnetic compatibility (EMC) performance. Insofar as safety or compliance with Low Voltage Directive (LVD) or any relevant directive is concerned, the applicant / report holder / certificate holder or any authorized agent is required, by virtue of the relevant EU Directive provisions, to have satisfied that the product concerned (for which a sample was tested) meets with LVD or other relevant directives before placing it on the market.



China

Constructional Photographs

MV6-ixyzWV2GN1-E and MV6-xyzWV2GN1-E (xyz=400, 450)



Constructional Photographs



Constructional Photographs





China

Constructional Photographs

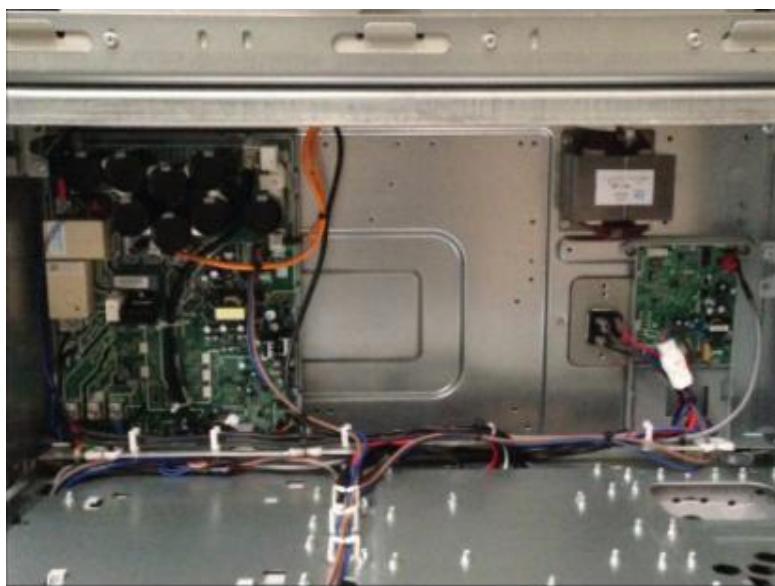
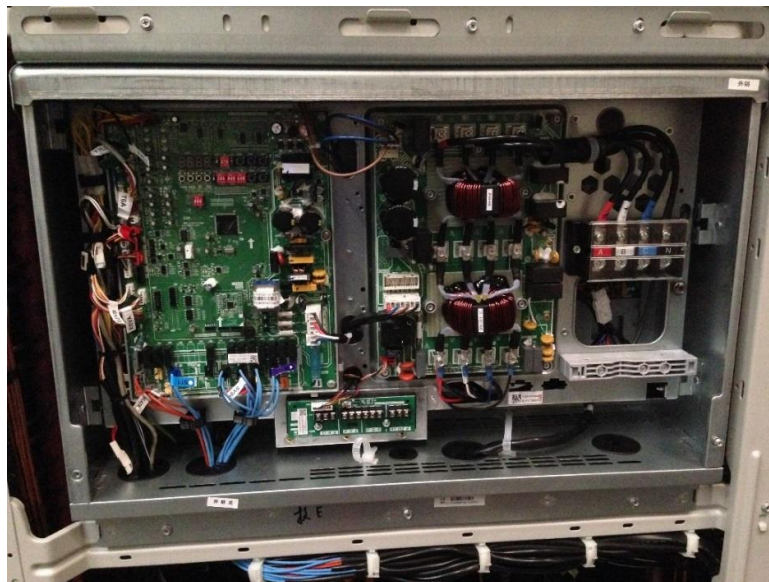
MV6-ixyzWV2GN1-E and MV6-xyzWV2GN1-E (xyz=252, 280, 335)



Constructional Photographs



Constructional Photographs





China

Constructional Photographs

Compressor for MV6-xyzWV2GN1-E, MV6-ixyzWV2GN1-E (xyz=252, 280, 335, 560, 615) and MV6-500WV2GN1-E



Compressor for MV6-xyzWV2GN1-E, MV6-ixyzWV2GN1-E (xyz=400, 450) and MV6-i500WV2GN1-E





China

Constructional Photographs

Fan motor for MV6-xyzWV2GN1-E, MV6-ixyzWV2GN1-E (xyz=252, 280, 335, 560, 615) and MV6-500WV2GN1-E



Fan motor for MV6-xyzWV2GN1-E, MV6-ixyzWV2GN1-E (xyz=400, 450,) and MV6-i500WV2GN1-E





China

Constructional Photographs

Reactor for MV6-xyzWV2GN1-E (xyz=252, 280, 335, 500,560, 615)。 Reactor for MV6-ixyzWV2GN1-E (xyz=252, 280, 335, 560, 615)



Reactor for MV6-xyzWV2GN1-E(xyz=400, 450)。
Reactor for MV6-ixyzWV2GN1-E (xyz=400, 450, 500)





China

Constructional Photographs

Reactor for MV6-xyzWV2GN1-E (xyz=400, 450)
Reactor for MV6-ixyzWV2GN1-E (xyz=400, 450, 500)



Main control board PCB for MV6-xyzWV2GN1-E and MV6-ixyzWV2GN1-E (xyz=252, 280, 335, 400, 450, 500, 560, 615)



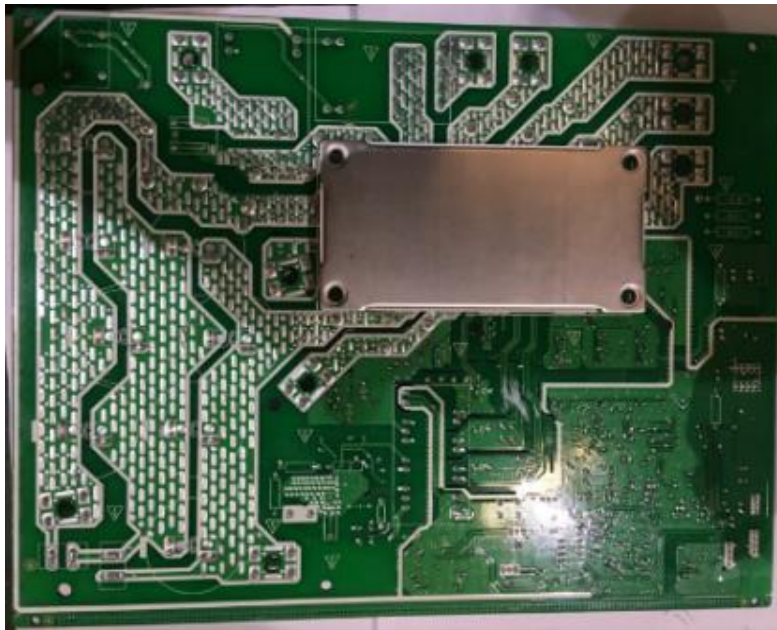
Constructional Photographs



Inverter module PCB for MV6-xyzWV2GN1-E and MV6-ixyzWV2GN1-E
(xyz=252, 280, 335, 400, 450, 500, 560, 615)



Constructional Photographs



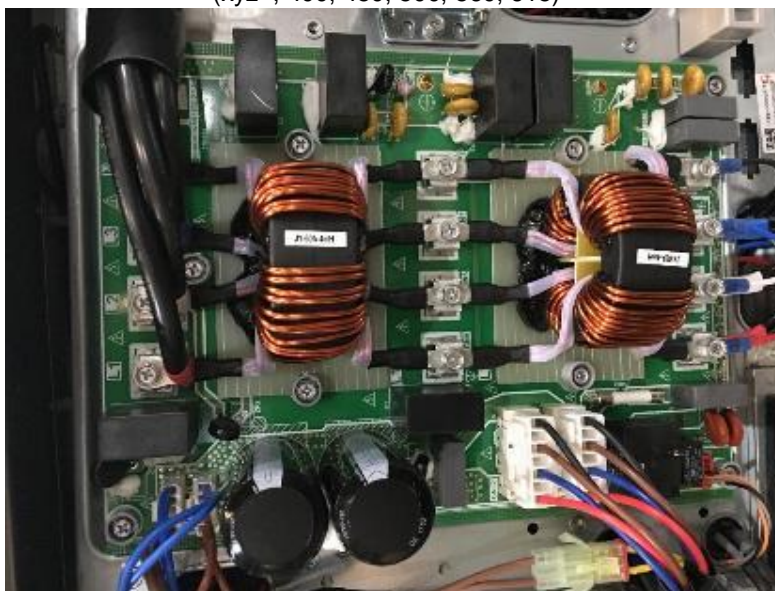
Fan driver module PCB for MV6-xyzWV2GN1-E and MV6-ixyzWV2GN1-E
(xyz=252, 280, 335, 400, 450, 500, 560, 615)



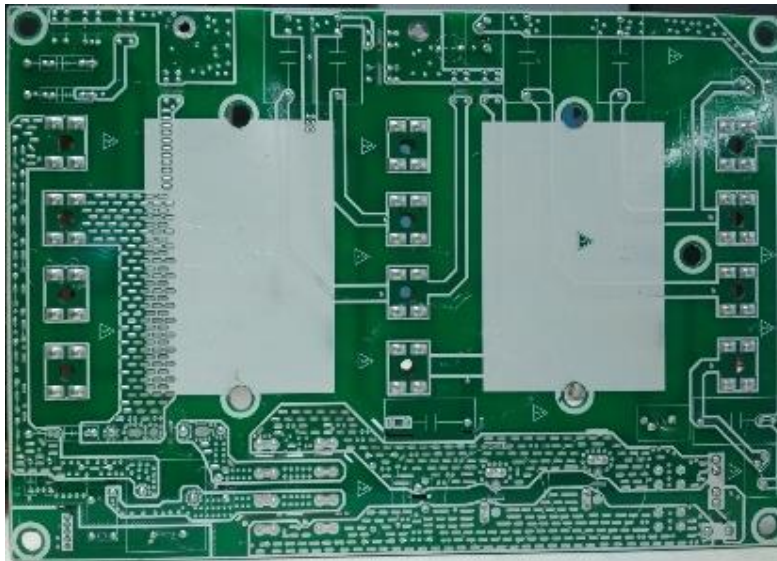
Constructional Photographs



Filter board PCB for MV6-xyzWV2GN1-E and MV6-ixyzWV2GN1-E
(xyz=, 400, 450, 500, 560, 615)



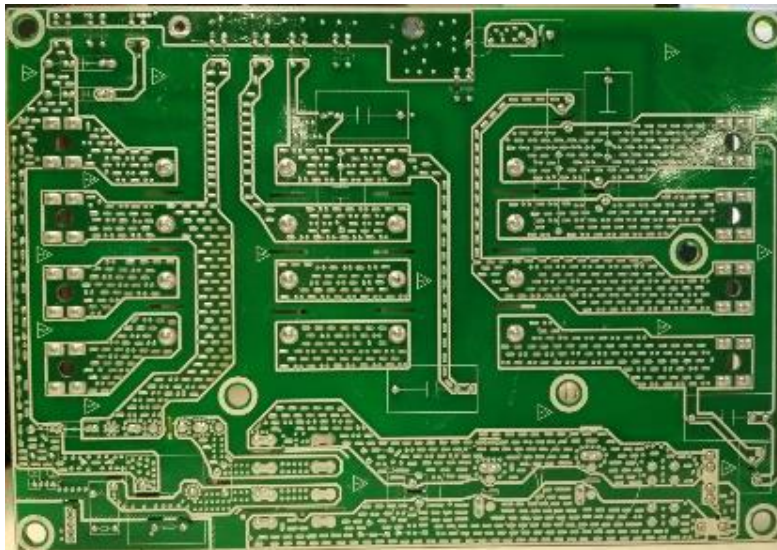
Constructional Photographs



Filter board PCB for MV6-xyzWV2GN1-E and MV6-ixyzWV2GN1-E
(xyz=252、280、335)



Constructional Photographs





EMC IMMUNITY - TEST REPORT

Report Number : **64.711.17.03913.01 – (I)** Date of Issue: 2017-11-20

Model / Serial No. : See attachment model list (for Appendix B) / NIL

Product Type : Multi-Split Type Air Conditioner (Outdoor unit)

Trade Name : Midea, MDV

Applicant / Manufacturer / License holder : GD Midea Heating & Ventilating Equipment CO.,LTD.

Address : Penglai Industry Road, Beijiao, Shunde, Foshan,
: Guangdong, P. R. China

Test Result : **Positive** **Negative**



Total pages including Appendices : **22**

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch is a subcontractor to TÜV SÜD Product Service, GmbH according to the principles outlined in ISO/IEC Guide 25 and EN 45001.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.



China

DIRECTORY - IMMUNITY

	Pages
A) Documentation	
Test Report	<u>1 - 16</u>
Directory	<u>2</u>
Test Regulations	<u>3</u>
General Remarks and Summary	<u>16</u>
B) Test data: Immunity against	
Electrostatic Discharge	<u>5</u>
Radiated Electromagnetic Fields	<u>6 - 7</u>
Fast Transients (Burst)	<u>8 - 9</u>
Surge Transients	<u>10 - 11</u>
Conducted Disturbance	<u>12 - 13</u>
Voltage Dips, Interruptions & Variations	<u>14</u>
C) Appendix A	
Test Setup Photo(s)	<u>A2 - A6</u>

IMMUNITY TEST REGULATIONS :

The immunity tests were performed according to the following regulations:

■ - EMC Directive 2014/30/EU

■ - EN 61000-6-1:2017
■ - EN 61000-6-1:2005
□ - EN 61000-6-1:2007
□ - EN 55014-2:2015

■ - IEC 61000-4-2:2008
■ - IEC 61000-4-3:2006+A1:2007
■ - IEC 61000-4-4:2004
■ - IEC 61000-4-5:2005
■ - IEC 61000-4-6:2008
□ - IEC 61000-4-8:1993+A1:2000
■ - IEC 61000-4-11:2004

Note: For undated references, the latest edition of the publication at the time of testing (including amendments) was applied.



China

Environmental Conditions In The Laboratory:

	<u>Actual</u>
Temperature:	: 25-28 °C
Relative Humidity:	: 40-55 %
Atmospheric Pressure:	: 1010-1020 mBar

Power Supply Utilized:

Power supply system : 400V / 50Hz / 3 ϕ (for outdoor unit)

STATEMENT OF MEASUREMENT UNCERTAINTY

The tolerances for each tests are reduced by the uncertainty reported on the calibration certificate for the measurement, all the parameters are within the tolerances required by the relevant standard, reduced by the uncertainty reported on the calibration certificate, so the laboratory has confidence that all the tests compliant with the relevant standards with a 95% confidence level.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Symbol Definitions:

- - Applicable
- - Not Applicable

Test laboratory:

- - Midea

Add: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, P. R. China

- - Inspection and Quarantine Technology Centre of Guangdong Entry-Exit Inspection and Quarantine Bureau

Add: No.3, Desheng East Road, Shunde, Daliang, Foshan, Guangdong, China

Immunity Test Conditions: RADIATED ELECTROMAGNETIC FIELDS

The immunity against *RADIATED ELECTROMAGNETIC FIELDS* exposure was performed in the following location:

- Test not applicable

■ - Test Area (IQTC) - Anechoic ferrite lined shielded room

Test Equipment Used:

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - SMF100A	RS	Signal Generator	1167.0000k02 -101828-xu	2018-08-15
■ - PM2002	AR	Power Meter	324169	2018-08-15
■ - EP601	PMM	Field Probe	511WX21270	2018-09-12
■ - AT1080	AR	Log-Periodic Antenna(80MHz-1000MHz)	0325160	2018-08-15
■ - NTWPAS-00810500E	RFLight	Power Amplifier (80MHz-1000MHz 500W)	16113272	2018-01-12
■ - BBHA 9120E	Schwarzbeck	Double Ridge Broadband Horn Antenna(0.5GHz-6GHz)	701	2018-08-15
■ - NTWPAS-1025100	RFLight	Power Amplifier(1000-2500MHz 100W)	16043079	2018-01-12
■ - NTWPAS-2560100	RFLight	Power Amplifier(2000-6000MHz 100W)	17039022	2018-01-12

Remarks: All test equipments used are calibrated on a regular basis.

Test Specification:

Frequency Range/ Field Strength:

- - 80 MHz - 1000 MHz: 10V/m
- - 1.4 GHz - 2 GHz: 3V/m
- - 2 GHz – 6 GHz: 3V/m

Distance Antenna - EUT: - 1 m ■ - 3 m



China

Test Specification (continued):

Modulation: - AM: 80% 1KHz
 - FM: ___ kHz dev. ___ kHz
 - sine wave:
 - unmodulated
 - Pulse ON/OFF Duty Cycle: ___ %

Step: ≤ 0.015 decades / sec - 1%

Polarization of Antenna: - Horizontal - Vertical

Result:
 - No degradation of function - Met Criterion A
 - Distortion of function - Met Criterion B
 - Error of function - Met Criterion C
 - Loss of function - Unrecoverable Failure

Remarks: _____

Immunity Test Conditions: FAST TRANSIENTS (BURST), continued

Location of Coupling:

name of lines: AC POWER CORD
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: Control Line
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: _____
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

Result:

- No degradation of function - Met Criterion A
- Distortion of function - Met Criterion B
- Error of function - Met Criterion C
- Loss of function - Unrecoverable Failure

Remarks: _____

Immunity Test Conditions: SURGE TRANSIENTS

The immunity against *SURGE TRANSIENTS* events was performed in the following test location:

- Test not applicable

- Test Area - Laboratory open area

Test Equipment Used:

Model Number	Manufacturer	Description	Serial Number	Cal. Due
<input checked="" type="checkbox"/> - PNW2050	SCHAFFNER	Surge Immunity test system	200711-602LU	2018-02-06
<input checked="" type="checkbox"/> - CDN133-153	SCHAFFNER	Surge Coupling System	34413	2018-02-06
<input type="checkbox"/> - PNW2225	EM Test	Surge simulator	V1204111721	2018-05-19

Remarks: All test equipments used are calibrated on a regular basis.

Test Specification:

Pulse Amplitude - AC Power Port: - 1,0 kV - 2,0 kV
 - 4,0 kV - ___ kV

Pulse Amplitude - DC Power Port: - 1,0 kV - 2,0 kV
 - 4,0 kV - ___ kV

Pulse Amplitude - Signal/Data Non control Port: - 0,5 kV - 1,0 kV
 - 2,0 kV - ___ kV

Pulse Amplitude - Process: Measurement & Control Port - 0,5 kV - 1,0 kV
 - 2,0 kV - ___ kV

Source Impedance: - 2 Ω + 18 μ F - 12 Ω + 9 μ F
 - 42 Ω + 0,1 μ F - 42 Ω + 0,5 μ F

Number of Surges: - 5 surges/angle - ___ surges /angle

Angle: - 0° - 90°
 - 180° - 270°

Repetition Rate: - 60 sec. - ___ sec.

Polarity: - Positive - Negative



China

Immunity Test Conditions: SURGE TRANSIENTS, continued

Location of Coupling:

name of lines: AC POWER CORD
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: _____
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: _____
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

Result:

- No degradation of function - Met Criterion A
- Distortion of function - Met Criterion B
- Error of function - Met Criterion C
- Loss of function - Unrecoverable Failure

Remarks: _____

Immunity Test Conditions: CONDUCTED DISTURBANCE

The immunity against *CONDUCTED DISTURBANCE* events, induced by radio frequency fields above 9 kHz, was performed in the following test location:

- Test not applicable

■ - Test Area (Midea) - Laboratory open area

Test Equipment Used:

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - NSG4070	SCHAFFNER	CW sine generator	25809	2018-08-22
■ - CDN M016	SCHAFFNER	CDN	26132	2018-08-22
■ - CDN-M525	SCHAFFNER	CDN	25836	2018-08-22
■ - KEMZ-801	SCHAFFNER	EM Injected Clamp	25476	2018-08-22
■ - ATN 6075	SCHAFFNER	6dB Attenuator	25408	2018-08-22

Remarks: All test equipments used are calibrated on a regular basis.

Test Specification:

Frequency Range: - 0,15 MHz - 230 MHz - 0,15 MHz - 80 MHz

Voltage Level (EMF): - 1 V - 3 V
 - 10 V - __ V

Modulation: - AM : 80 % 1 kHz
 - FM : __ kHz dev. __ kHz
 - sine wave:
 - unmodulated
 - Pulse ON/OFF Duty Cycle: __ %

Step: - ≤ 0.015 decades / sec

Immunity Test Conditions: CONDUCTED DISTURBANCE, continued

Location of Coupling:

name of lines: AC POWER CORD
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: 30cm

name of lines: Control Line
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: _____
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

Result :

- No degradation of function - Met Criterion A
- Distortion of function - Met Criterion B
- Error of function - Met Criterion C
- Loss of function - Unrecoverable Failure

Remarks: _____



Immunity Test Conditions: VOLTAGE DIPS, INTERRUPTIONS & VARIATIONS

The immunity against *VOLTAGE DIPS, INTERRUPTIONS & VARIATIONS* events, induced by radio frequency fields above 9 kHz, was performed in the following test location:

- Test not applicable

■ - Test Area (Midea) - Laboratory open area

Test Equipment Used:

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - MX45	CI	Harmonic current & Flicker tester	72521	2018-06-02
■ - PACS-3	CI	V-dip tester	57814	2018-06-02
■ - DPA 503N/AIF 503 S1	EM TEST	Harmonic current & Flicker tester	V1019106581	2017-11-24
■ - ACS 503	EM TEST	V-dip tester	V1019106588	2017-11-24

Remarks: All test equipments used are calibrated on a regular basis.

Test Specification:

- Nominal Mains Voltage (V_{NOM}): ■ - 400 Vac
- Level of Reduction (dip): ■ - 500 mS at 30% of V_{NOM}
 □ - 200 mS at 60% of V_{NOM}
 □ - _____
- Duration of Interruption ($>.95 \cdot V_{NOM}$): ■ -10 mS
 ■ -20 mS
 ■ - 5 S
- Voltage Fluctuation: □ $-V_{NOM} + 10\%$ □ $-V_{NOM} - 10\%$

Result :

- No degradation of function - Met Criterion A
 ■ - Distortion of function - Met Criterion B
 - Error of function - Met Criterion C
 - Loss of function - Unrecoverable Failure

Remarks: The EUT work slowly when each voltage dip applied on, but it could self-recover after the influence removed.



Equipment Under Test (EUT) Test Operation Mode - Immunity Tests :

The equipment under test was operated under the following conditions during immunity testing :

- Standby
- Test Program (H - Pattern)
- Test Program (Color Bar)
- Test Program (Customer Specified)
- Normal Operating Mode

- _____

Configuration of the equipment under test:

- See Constructional Data Form in Appendix B - Page B2
- See Product Information Form(s) in Appendix B - Page B2

The following peripheral devices and interface cables were connected during the testing:

- unshielded cables _____ Type : Indoor unit and outdoor unit connect line _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____
- _____ Type : _____

- unshielded power cable
- unshielded cables
- shielded cables
- customer specific cables

TÜVPS. No.: _____

- _____
 - _____

GENERAL REMARKS:

Please refer to remarks on page B2 of B8 (emission report)

SUMMARY:

All tests according to the regulations cited on page 3 were

- - Performed
- - **Not** Performed

The Equipment Under Test

- - **Fulfills** the general approval requirements cited on page 3.
- - **Does not** fulfill the general approval requirements cited on page 3.

Testing Start Date: 2017-06-20

Testing End Date: 2017-08-31

- TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch –

Reviewed by:



Tony Liu

Prepared by:



Mike Zhuo



China

Appendix A

Test Setup Photos

Photograph of Test Setup:
Electrostatic Discharge(ESD)

- Test not applicable

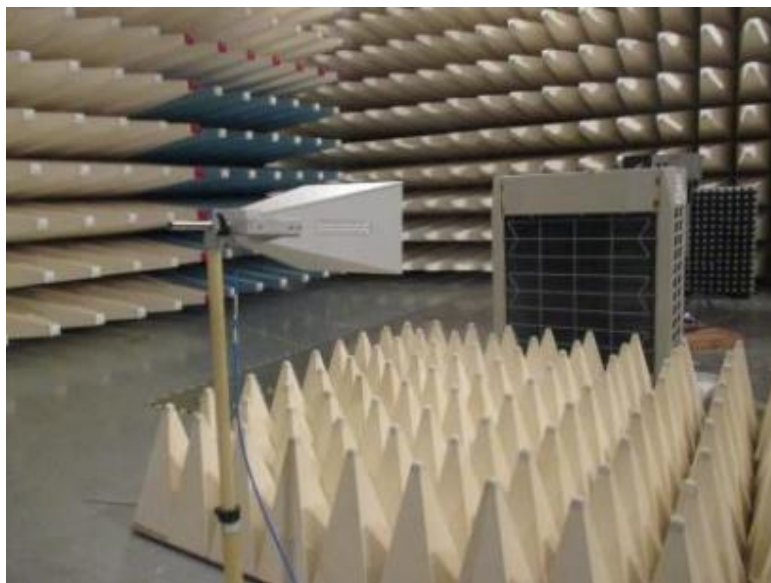
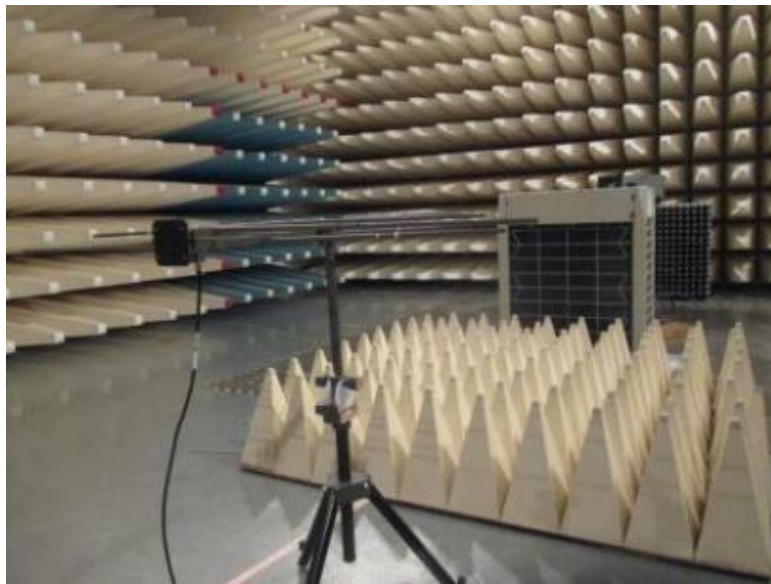
IEC 61000-4-2



Photograph of Test Setup:
Radiated Electromagnetic Field

- Test not applicable

IEC 61000-4-3



Photograph of Test Setup:
Fast transients (BURST)/SURGE transients

- Test not applicable

IEC 61000-4-4 / IEC 61000-4-5



Photograph of Test Setup:
Conducted disturbance

- Test not applicable

IEC 61000-4-6



Photograph of Test Setup:
Voltage Dips, Interruptions & Variations

- Test not applicable

IEC 61000-4-11

