



China

EMC EMISSION - TEST REPORT

Report Number : **64.711.17.03925.01- (E)** Date of Issue: 2017-11-26

Model : MV6-i670WV2GN1-E, MV6-i730WV2GN1-E, MV6-i785WV2GN1-E, MV6-i850WV2GN1-E, MV6-i900WV2GN1-E, MV6-670WV2GN1-E, MV6-730WV2GN1-E, MV6-785WV2GN1-E, MV6-850WV2GN1-E, MV6-900WV2GN1-E

Product Type : Multi-split type air conditioner (outdoor unit)

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

Trade Name : Midea, MDV

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

Test Result : Positive Negative



Total pages including Appendices : 57

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EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to the following regulations:

■ - EMC - Directive 2014/30/EU and its amendments

■- EN 61000-6-4:2007+A1:2011



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Environmental Conditions In The Laboratory:

	<u>Actual</u>
Temperature:	: 18-20 °C
Relative Humidity:	: 50-55 %
Atmospheric Pressure:	: 1040 mBar

Rated of EUT:

Rated voltage: 380 -415 V , 3N ~
Rated frequency: 50 Hz

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:

- -TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Add: 5F, Communication Building, 163 Pingyun Rd. Guangzhou 510656 P.R.China

Test Location:

- -GD Midea Heating & Ventilating Equipment CO.,LTD.
Add: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, P. R. China



China

Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

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

- Test not applicable

■ - Open Area: GD Midea

Test Equipment Used :

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100786	2018-07-05
■ - NSLK8128	SCHWARZBECK	Artificial V-Network	100105	2016-07-08
■- ESH3-Z2	Rohde & Schwarz	Amplitude limiter	100162	2018-07-05
□- DIA1512D	SCHAFFNER	Multi-channel Discontinuous Analyzer	24232	2018-07-05
□- KDF-33090	ACP	AC Power source	F307070118	2016-10-16

Measurement Uncertainty: ± 2.60 dB

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



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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

- Test not applicable

■ - Open Area: GD midea

Testing was performed at a test distance of :

■ - 3 meters

- 10 meters

Test Equipment Used :

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - ESCI	Rohde & Schwarz	EMI Test Receiver	100786	2018-07-05
■ - SAS-521F-2	A.H. System Inc.	Bi-Log Antenna	175	2018-10-31
<input type="checkbox"/> - KDF-33090	ACP	AC Power source	F307070118	2016-10-16

Measurement Uncertainty: ± 4.40 dB (Horizontal), ± 4.60 dB (Vertical)

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



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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

- Cooling 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"/> - <u>Indoor unit</u> | Type : <u>MDV-D28T2BP2N1-C3</u> |
| <input checked="" type="checkbox"/> - <u>Indoor unit</u> | Type : <u>CE-MDVD140T2BP2N1X-BA5</u> |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |

- unshielded power cable
- unshielded cables
- shielded cables TUVPS.No.: _____
- customer specific cables
- _____
- _____



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Emissions Test Results:

Conducted Emissions, 150 kHz - 30 MHz

- PASS

- FAIL

- NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

Remarks: _____

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

- PASS

- FAIL

- NOT APPLICABLE

Minimum limit margin _____ dB at _____ MHz

Maximum limit exceeding _____ dB at _____ MHz

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



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GENERAL REMARKS:

MV6-i670WV2GN1-E, MV6-i730WV2GN1-E, MV6-i785WV2GN1-E, MV6-670WV2GN1-E, MV6-730WV2GN1-E, MV6-785WV2GN1-E are identical in circuit diagram and critical components, different in model name and pressure tank numbers.

MV6-i850WV2GN1-E, MV6-i900WV2GN1-E, MV6-850WV2GN1-E, MV6-900WV2GN1-E are identical in circuit diagram and critical components, different in model name and pressure tank numbers.

Tests have applied on MV6-785WV2GN1-E, MV6-900WV2GN1-E only.

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:

2017-07-17

Testing End Date:

2017-07-18

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

Reviewed by:

Prepared by:

Samuel Zhang

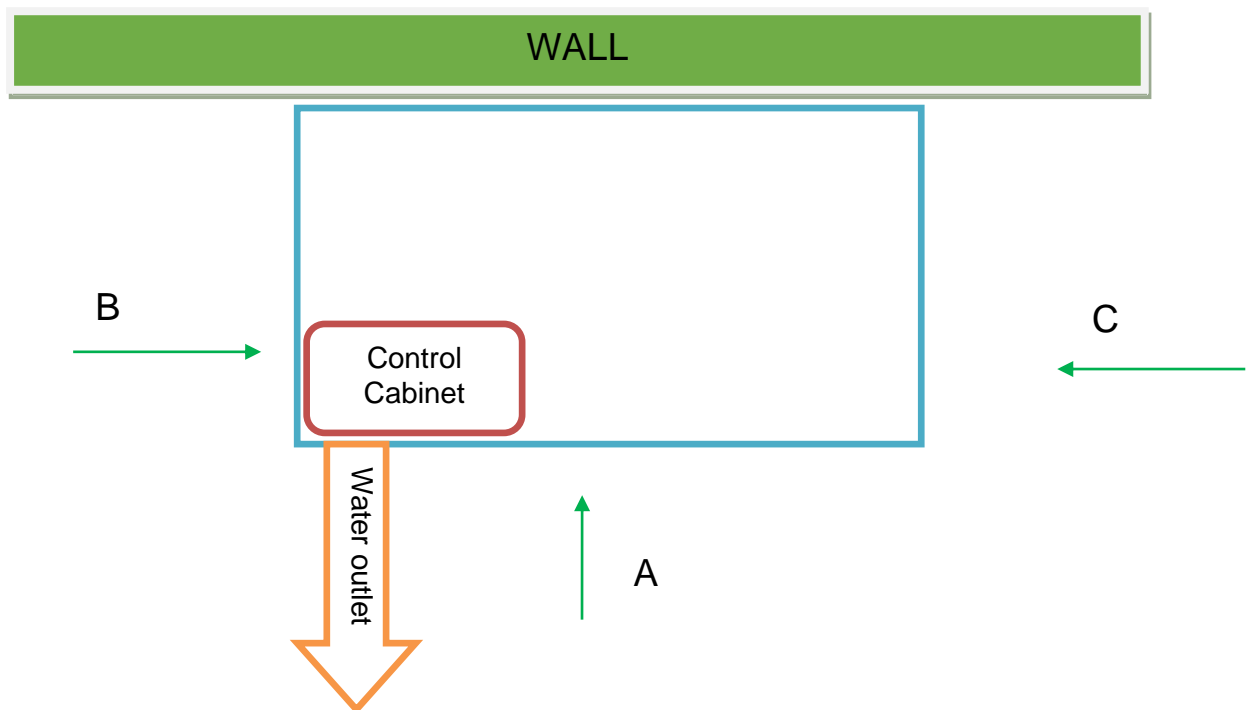
Appendix A

Test Setup Photo(s)

and

Test Data Sheets

Setup for MV6-785WV2GN1-E/ MV6-900WV2GN1-E



Photograph of Test Setup:
Conducted Emissions 150kHz-30MHz



Photograph of Test Setup:
Radiated Emissions 30MHz-1000MHz





China

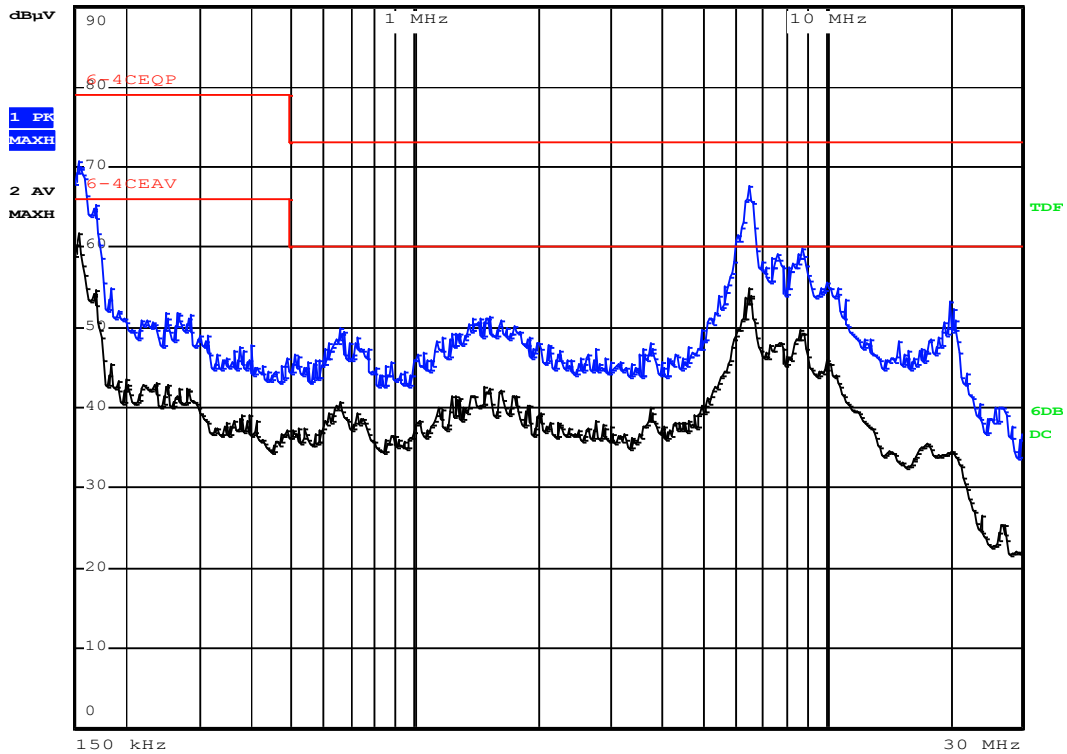
Conducted Emissions 150kHz-30MHz



RBW 9 kHz

MT 10 ms

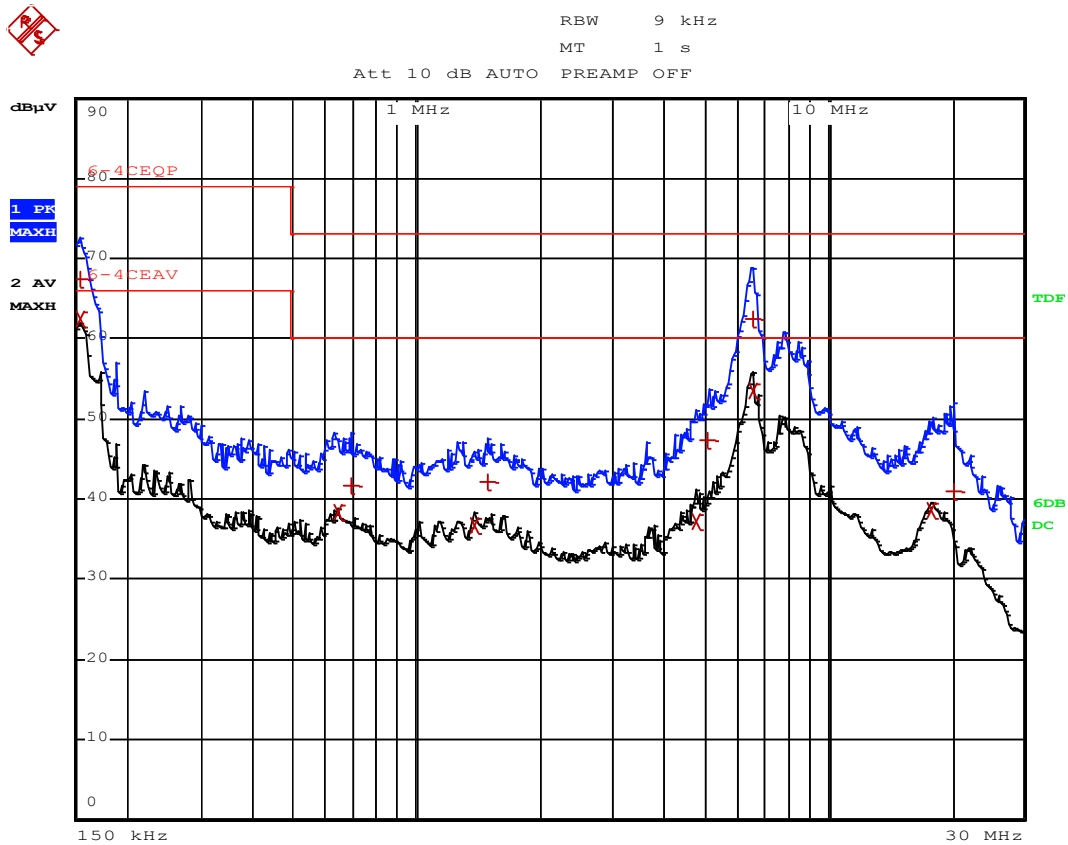
Att 10 dB AUTO PREAMP OFF



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	154 kHz	68.32	-10.67
2 Average	154 kHz	57.30	-8.69
2 Average	654 kHz	40.16	-19.83
1 Quasi Peak	658 kHz	45.10	-27.89
2 Average	1.482 MHz	40.38	-19.61
1 Quasi Peak	1.526 MHz	47.44	-25.55
1 Quasi Peak	5.026 MHz	46.03	-26.96
2 Average	5.026 MHz	40.50	-19.49
1 Quasi Peak	6.518 MHz	62.71	-10.28
2 Average	6.518 MHz	52.92	-7.07
2 Average	12.414 MHz	35.25	-24.74
1 Quasi Peak	20.014 MHz	41.36	-31.63

Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

Conducted Emissions 150kHz-30MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	154 kHz	67.55	-11.44
2 Average	154 kHz	62.42	-3.57
2 Average	646 kHz	38.43	-21.56
1 Quasi Peak	690 kHz	41.77	-31.22
2 Average	1.386 MHz	36.73	-23.26
1 Quasi Peak	1.498 MHz	42.20	-30.79
2 Average	4.786 MHz	37.25	-22.74
1 Quasi Peak	5.122 MHz	47.37	-25.63
1 Quasi Peak	6.558 MHz	62.42	-10.57
2 Average	6.562 MHz	53.58	-6.41
2 Average	17.786 MHz	38.63	-21.36
1 Quasi Peak	20.266 MHz	41.00	-31.99

Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

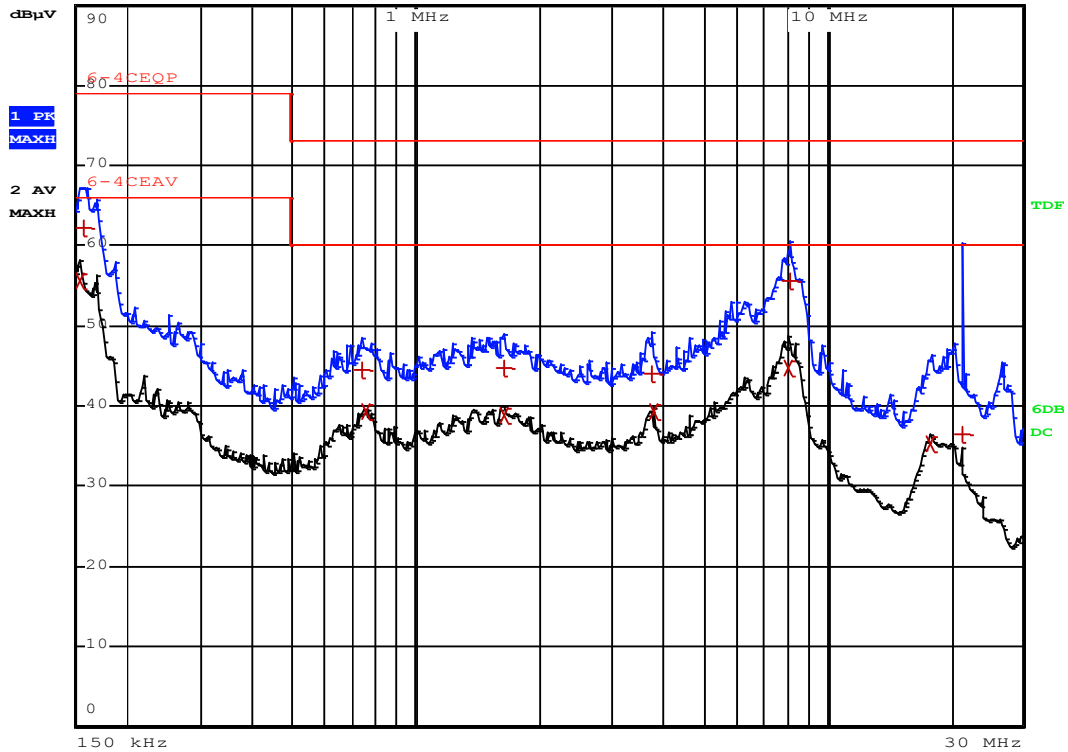
Conducted Emissions 150kHz-30MHz



RBW 9 kHz

MT 1 s

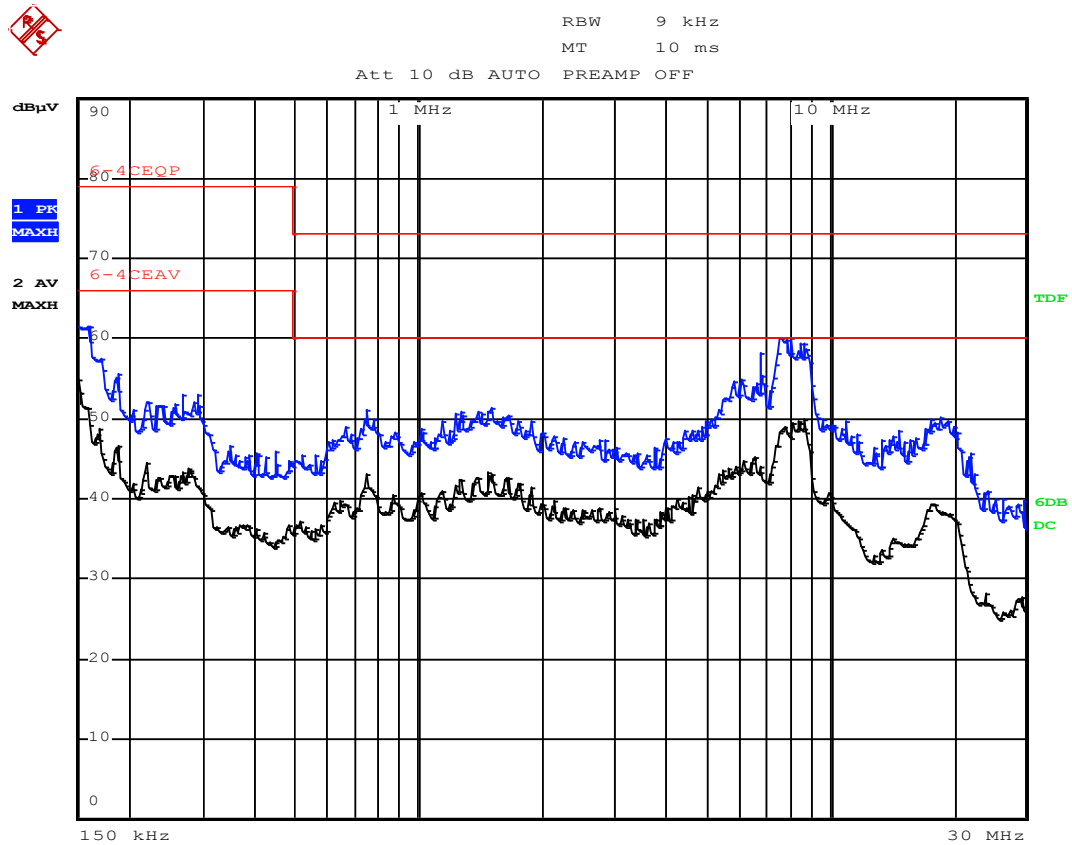
Att 10 dB AUTO PREAMP OFF



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	154 kHz	55.62	-10.37
1 Quasi Peak	158 kHz	62.15	-16.84
1 Quasi Peak	742 kHz	44.41	-28.58
2 Average	758 kHz	39.37	-20.62
1 Quasi Peak	1.638 MHz	44.74	-28.25
2 Average	1.642 MHz	38.91	-21.08
1 Quasi Peak	3.75 MHz	44.16	-28.83
2 Average	3.778 MHz	39.24	-20.75
2 Average	8.082 MHz	44.75	-15.24
1 Quasi Peak	8.15 MHz	55.56	-17.43
2 Average	17.79 MHz	35.31	-24.68
1 Quasi Peak	21.47 MHz	36.59	-36.40

Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

Conducted Emissions 150kHz-30MHz



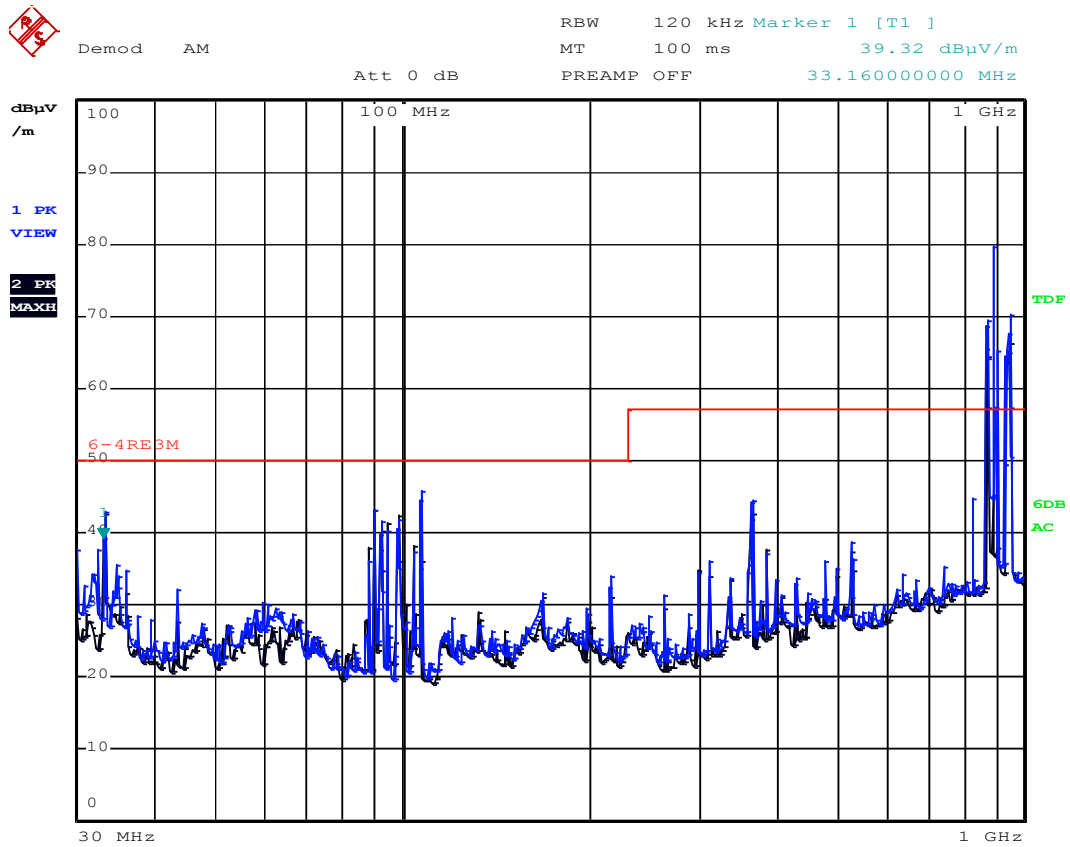
Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18



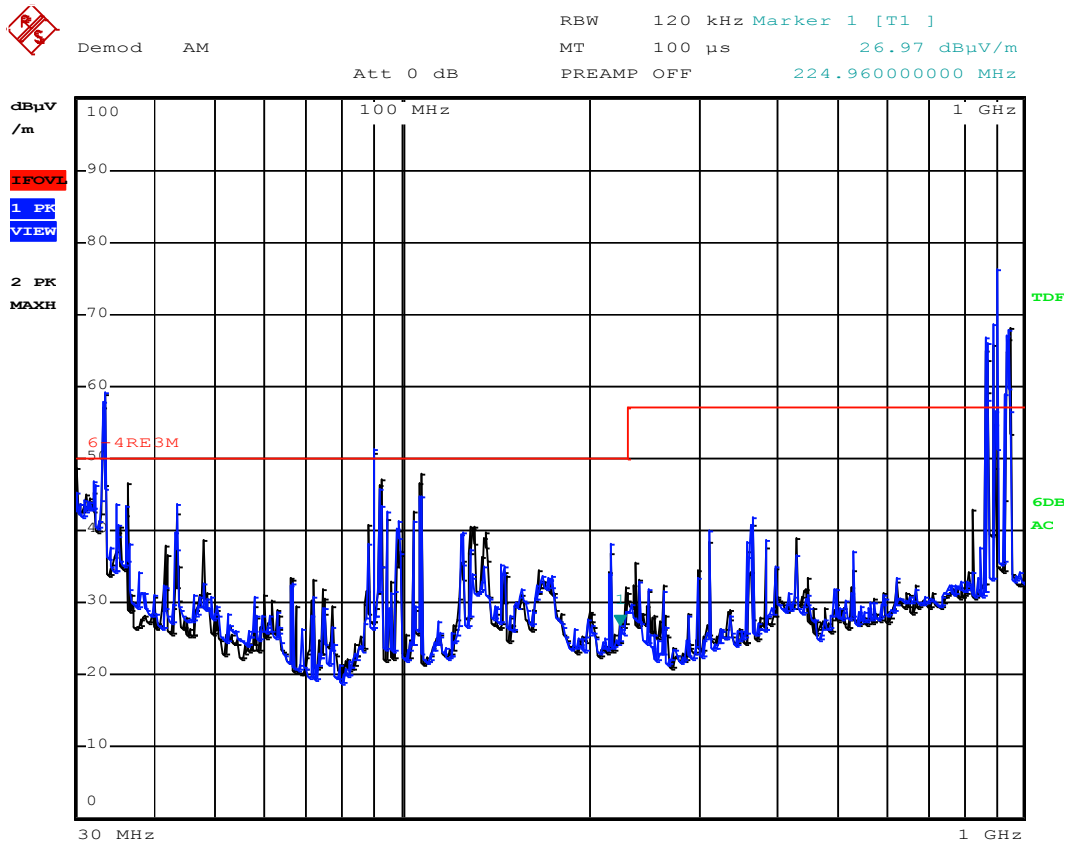
China

Radiated Emissions 30MHz-1000MHz

Antenna polarity : Horizontal Vertical



Antenna polarity : Horizontal Vertical



Summary:

Frequency (MHz)	Remark	Frequency (MHz)	Remark
32.040	Unknown	124.401	Unknown
32.760	Unknown	124.400	Unknown
33.200	Unknown	125.000	Unknown
33.160	Unknown	300.000	Unknown
33.200	Unknown	417.240	TV
36.040	TV	871.160	GSM
43.440	Unknown	891.800-902.360	GSM
88.280-107.080	FM	935.360-949.360	GSM
435.120	Walkie-talkie		

Operating Mode : Background emission **A-C point**

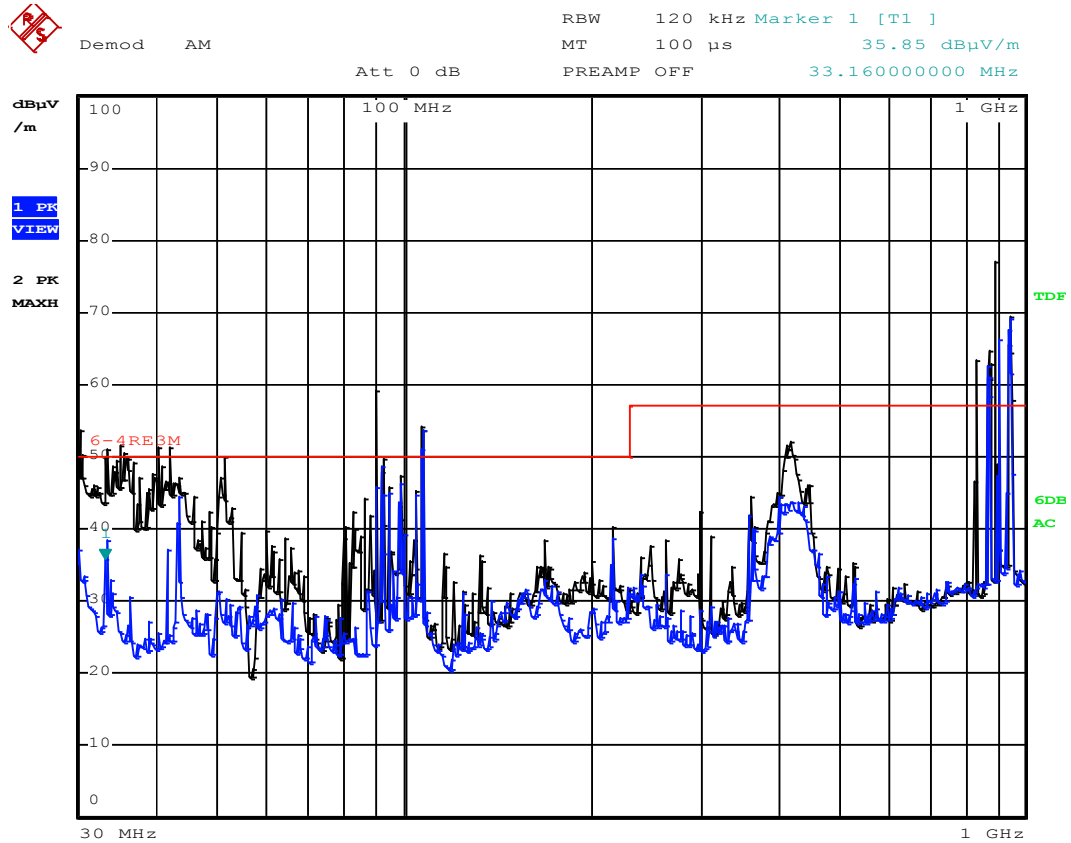
Test By : Samuel Zhang

Test Date : 2017-07-17



China

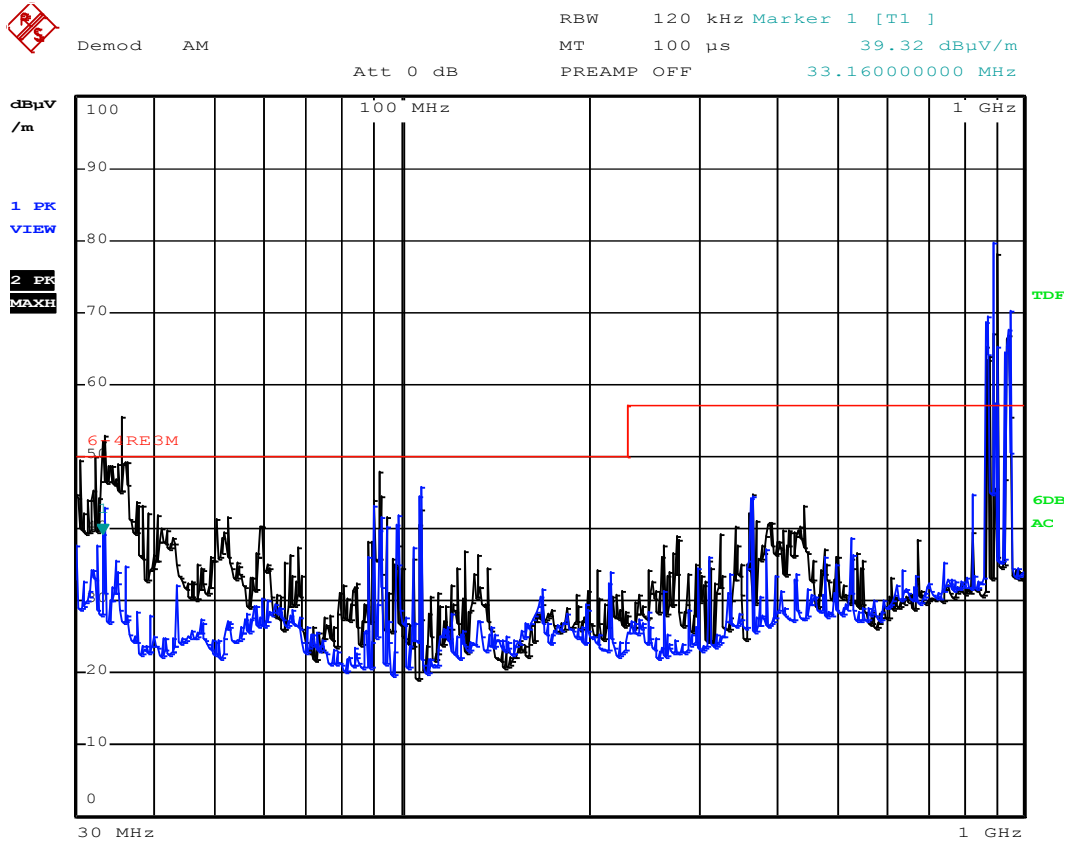
Radiated Emissions 30MHz-1000MHz



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
31.640	46.6	50
34.360	44.0	50
35.480	45.1	50
36.600	41.7	50
40.320	45.1	50
41.880	42.7	50
51.040	40.7	50

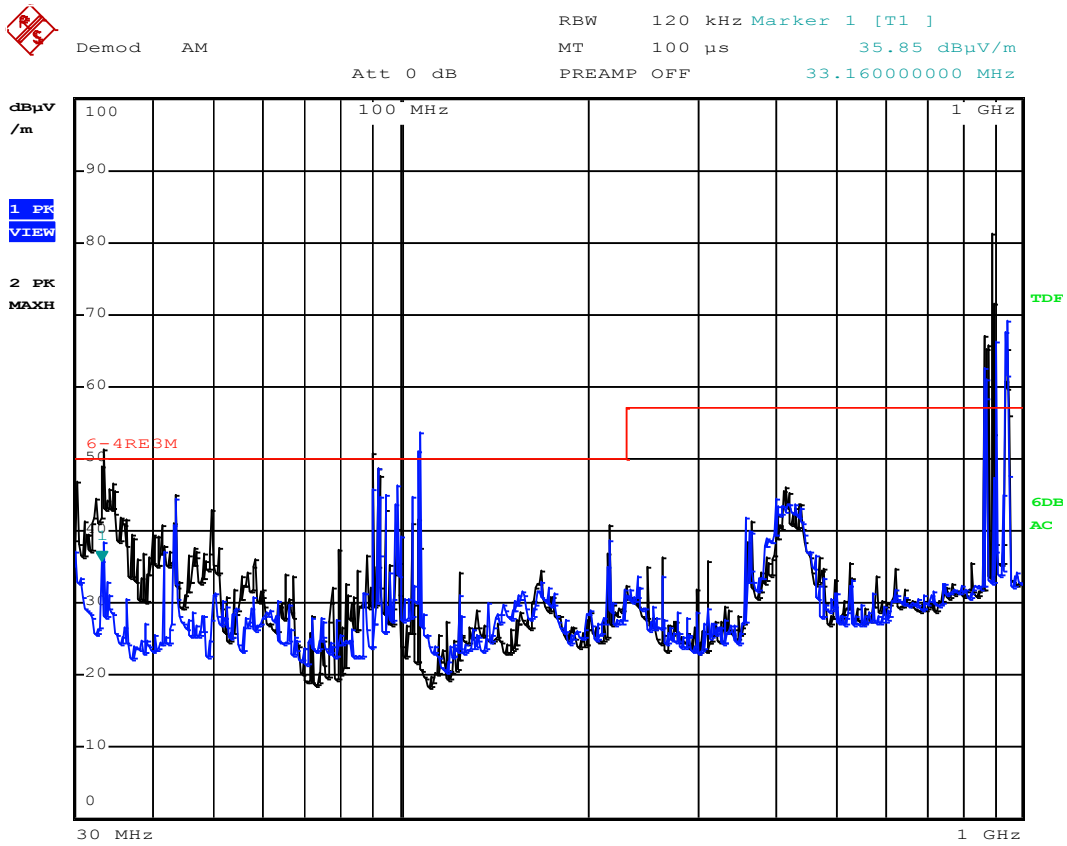
Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ A point
 Test By : Samuel Zhang
 Test Date : 2017-07-17



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
30.480	41.0	50
35.600	46.8	50
36.160	46.2	50

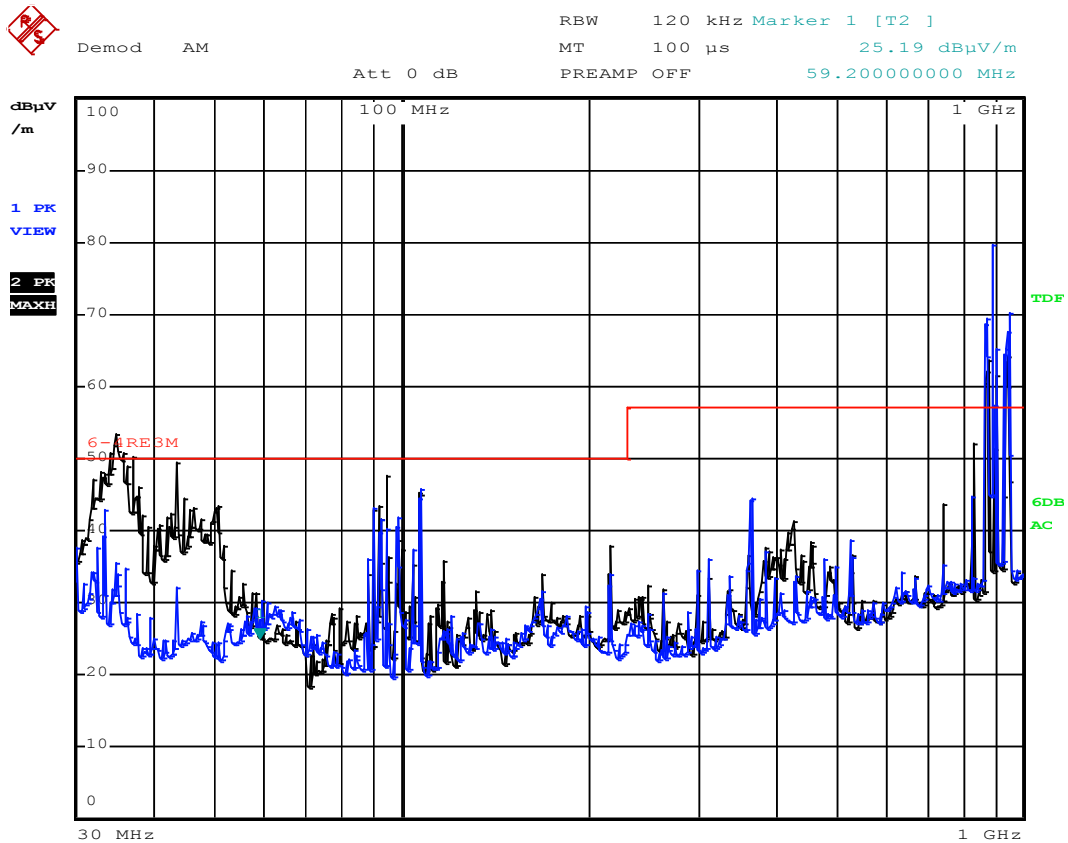
Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ A point
 Test By : Samuel Zhang
 Test Date : 2017-07-17



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
32.320	37.5	50
33.160	48.3	50
34.400	40.3	50
216.000	40.4	50

Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ B point
 Test By : Samuel Zhang
 Test Date : 2017-07-17



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
33.280	41.1	50
33.800	42.2	50
34.680	42.4	50
36.160	40.9	50
43.400	43.6	50

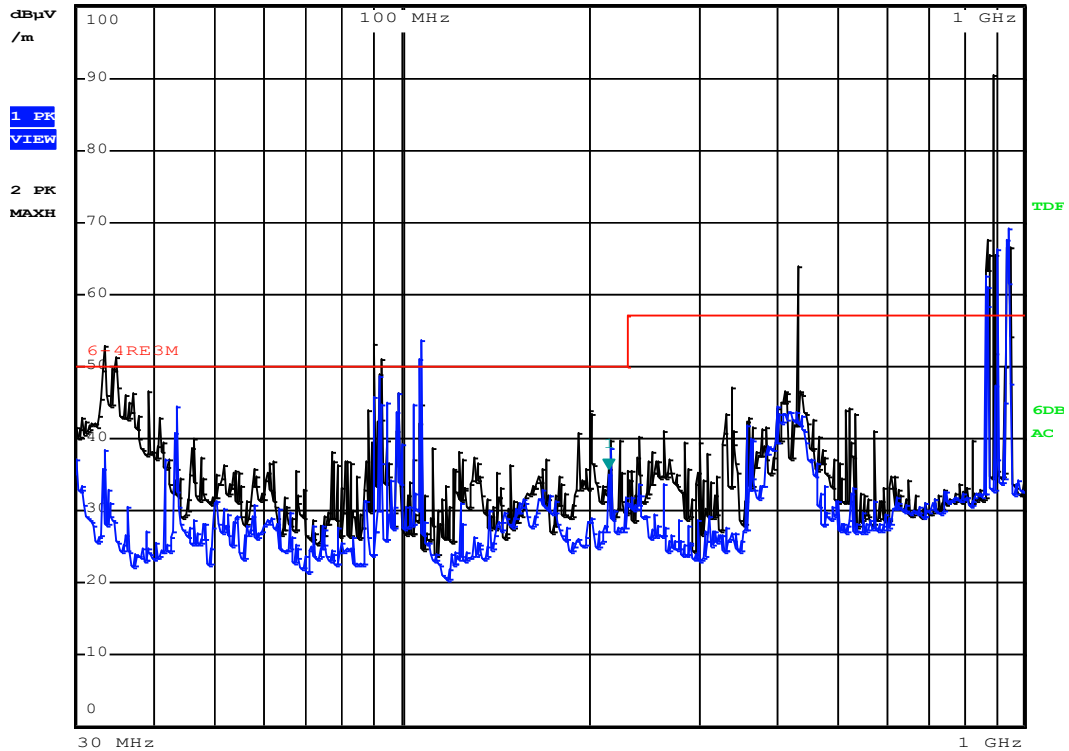
Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ B point
 Test By : Samuel Zhang
 Test Date : 2017-07-17



Demod AM

Att 0 dB

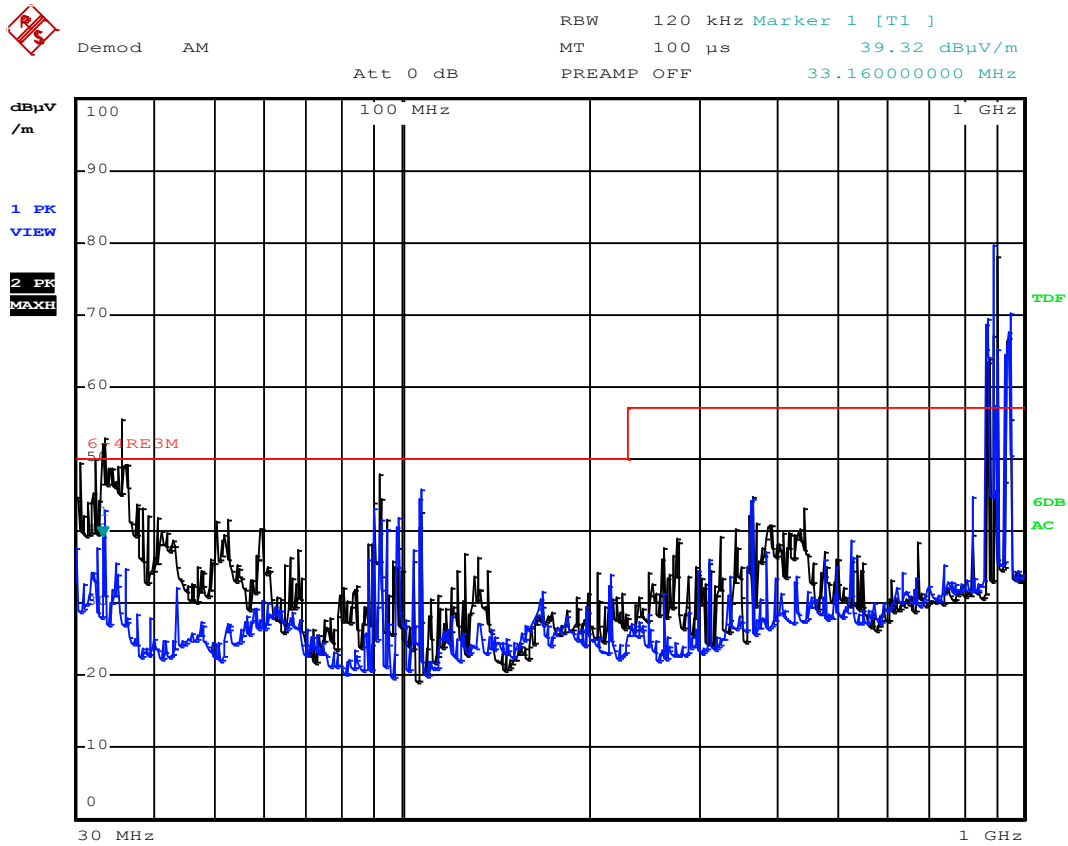
RBW 120 kHz Marker 1 [T2]
 MT 100 μs 35.73 dBμV/m
 PREAMP OFF 215.96000000 MHz



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
33.160	46.8	50
34.800	43.9	50
35.100	41.5	50
201.040	34.0	50

Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ C point
 Test By : Samuel Zhang
 Test Date : 2017-07-17

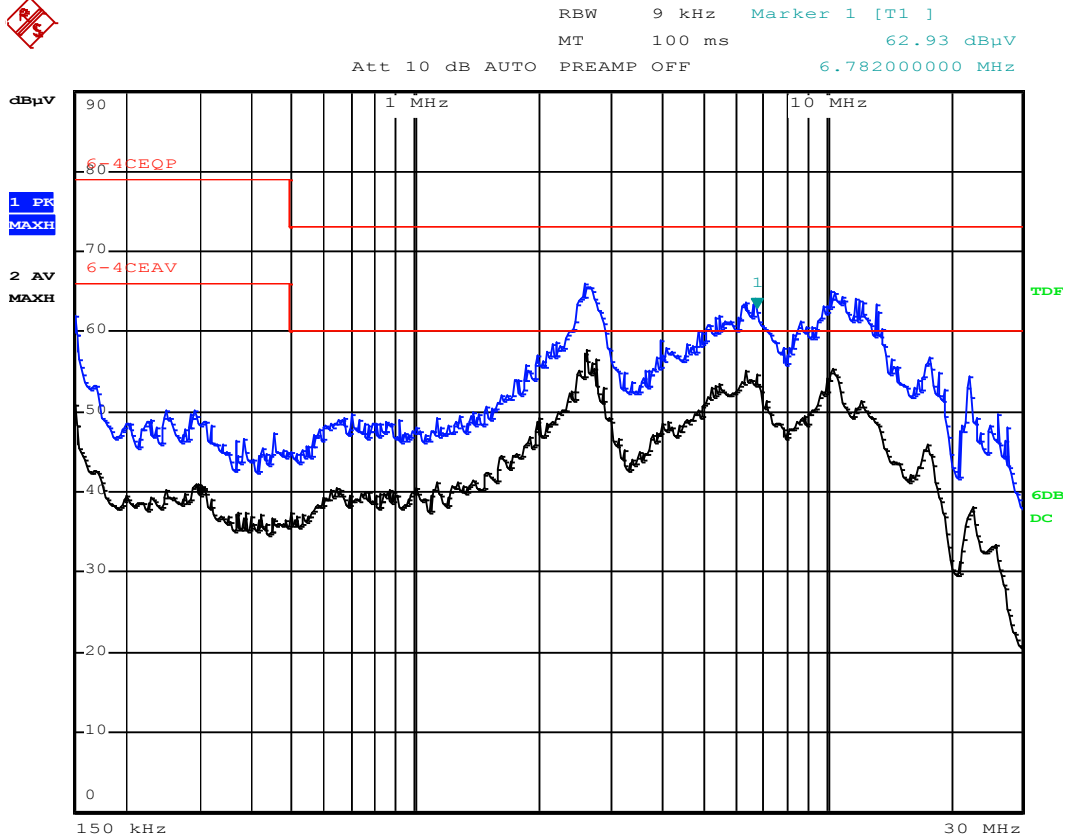


Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
30.480	41.0	50
35.600	46.8	50
36.160	46.2	50

Antenna polarity : Horizontal Vertical
 Model : MV6-785WV2GN1-E
 Operating Mode : Cooling mode/ C point
 Test By : Samuel Zhang
 Test Date : 2017-07-17

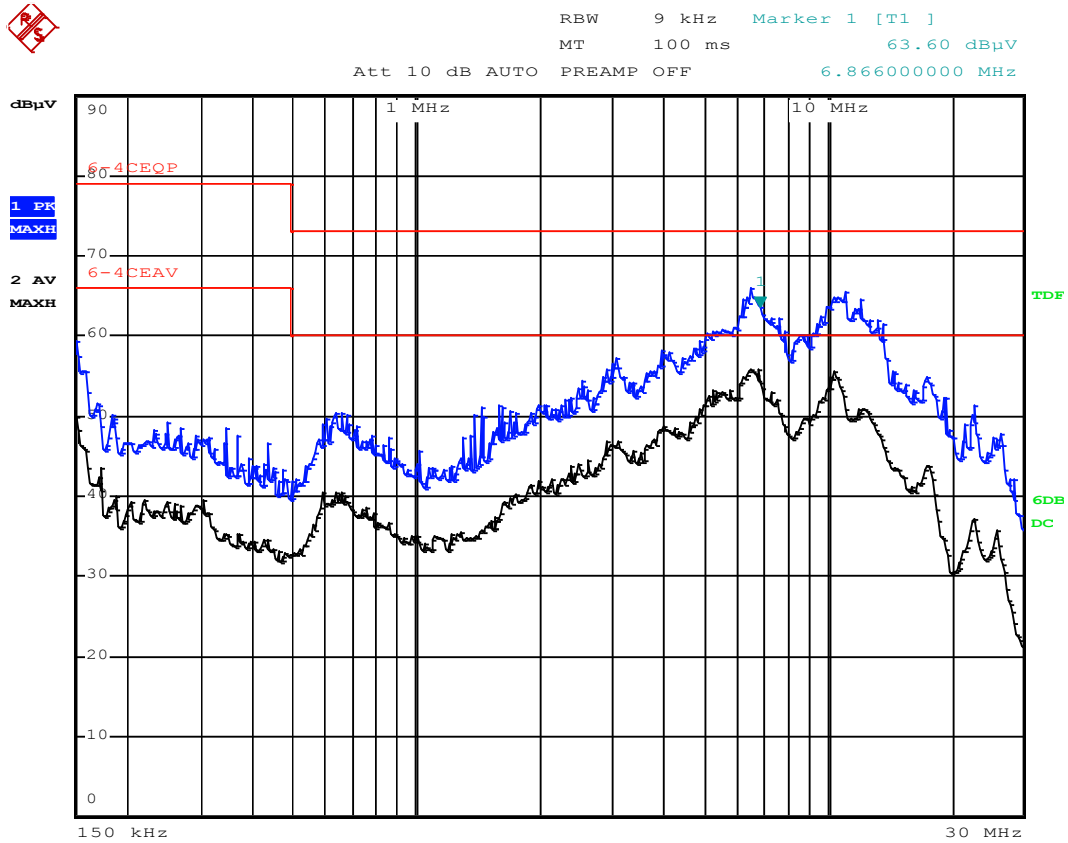
Conducted Emissions 150kHz-30MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	57.05	-21.94
2 Average	150 kHz	49.33	-16.66
2 Average	642 kHz	39.87	-20.12
1 Quasi Peak	702 kHz	44.11	-28.88
2 Average	2.006 MHz	47.70	-12.29
1 Quasi Peak	2.102 MHz	52.83	-20.16
1 Quasi Peak	2.598 MHz	61.86	-11.13
2 Average	2.614 MHz	56.20	-3.79
1 Quasi Peak	10.274 MHz	58.74	-14.26
2 Average	10.398 MHz	52.99	-7.00
2 Average	12.434 MHz	48.83	-11.16
1 Quasi Peak	13.33 MHz	53.47	-19.52

Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

Conducted Emissions 150kHz-30MHz



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	150 kHz	57.44	-21.55
2 Average	150 kHz	51.27	-14.72
2 Average	634 kHz	39.46	-20.53
1 Quasi Peak	638 kHz	46.44	-26.56
2 Average	1.986 MHz	39.84	-20.15
1 Quasi Peak	1.994 MHz	45.12	-27.87
1 Quasi Peak	5.11 MHz	55.82	-17.17
2 Average	5.122 MHz	51.13	-8.86
1 Quasi Peak	6.486 MHz	58.94	-14.05
2 Average	6.77 MHz	54.69	-5.30
2 Average	12.438 MHz	49.05	-10.94
1 Quasi Peak	12.654 MHz	54.74	-18.25

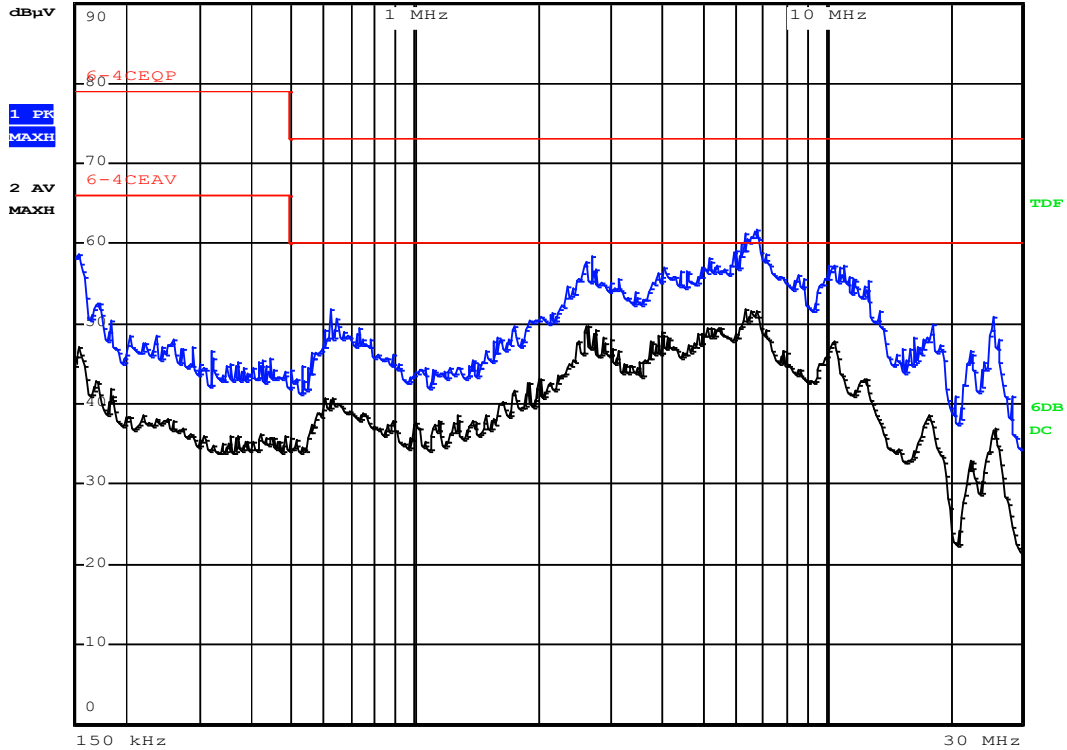
Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

Conducted Emissions 150kHz-30MHz



RBW 9 kHz
MT 10 ms

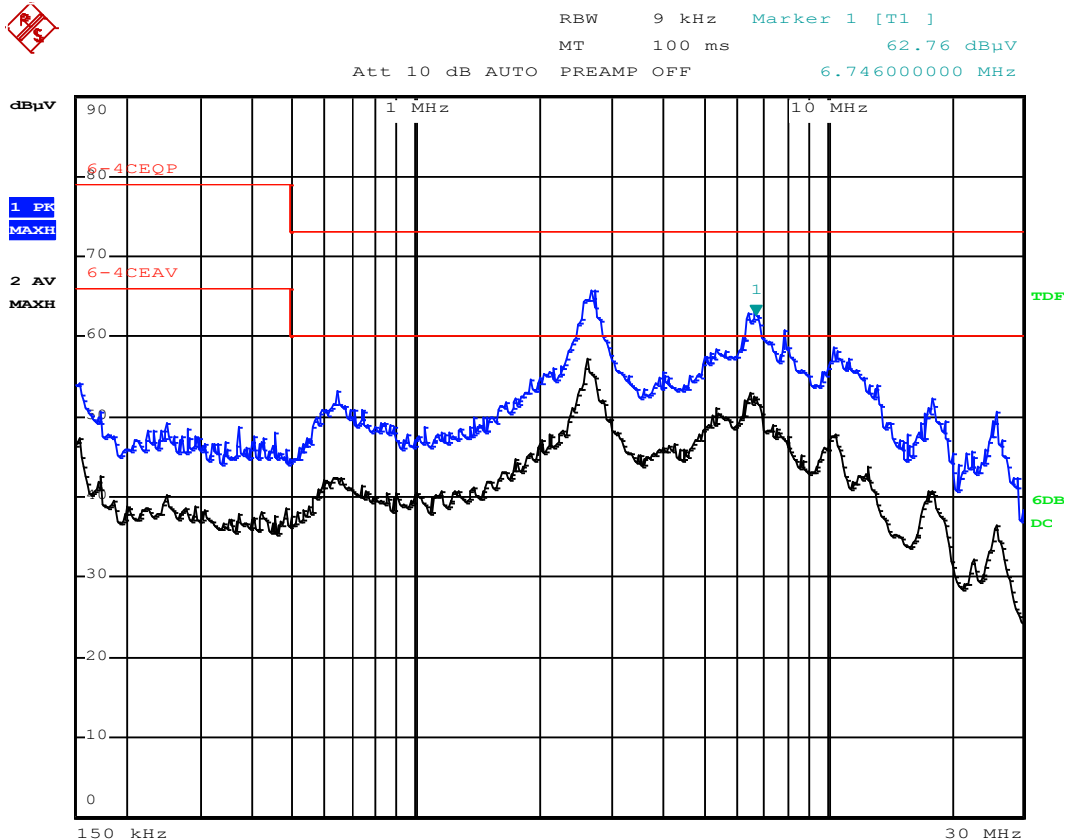
Att 10 dB AUTO PREAMP OFF



TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	154 kHz	56.48	-22.51
2 Average	154 kHz	47.16	-18.84
1 Quasi Peak	622 kHz	45.03	-27.96
2 Average	630 kHz	39.95	-20.04
2 Average	2.006 MHz	43.44	-16.55
1 Quasi Peak	2.022 MHz	48.10	-24.89
2 Average	2.642 MHz	50.67	-9.32
1 Quasi Peak	2.694 MHz	54.82	-18.17
2 Average	6.386 MHz	50.10	-9.89
1 Quasi Peak	6.818 MHz	57.11	-15.88
2 Average	12.406 MHz	40.93	-19.06
1 Quasi Peak	12.742 MHz	46.40	-26.59

Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18

Conducted Emissions 150kHz-30MHz



Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode
 Conduct Line/Port : L1 L2 L3 N
 Test By : Samuel Zhang
 Test Date : 2017-07-18



China

Radiated Emissions 30MHz-1000MHz

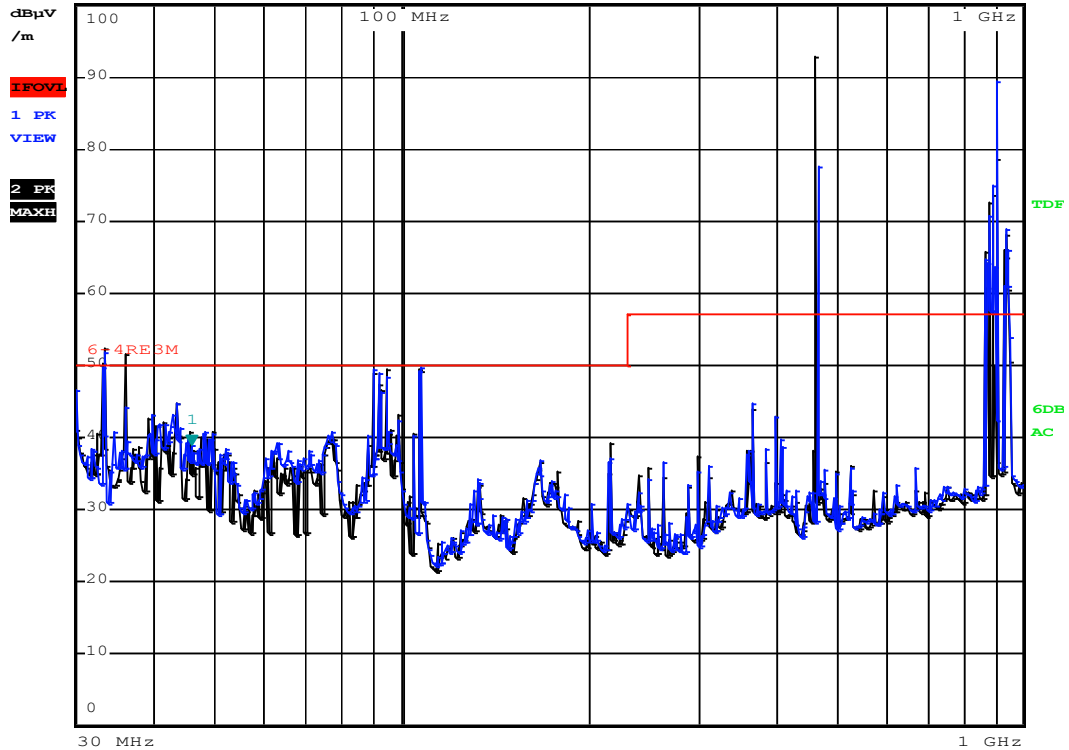
Antenna polarity : Horizontal Vertical



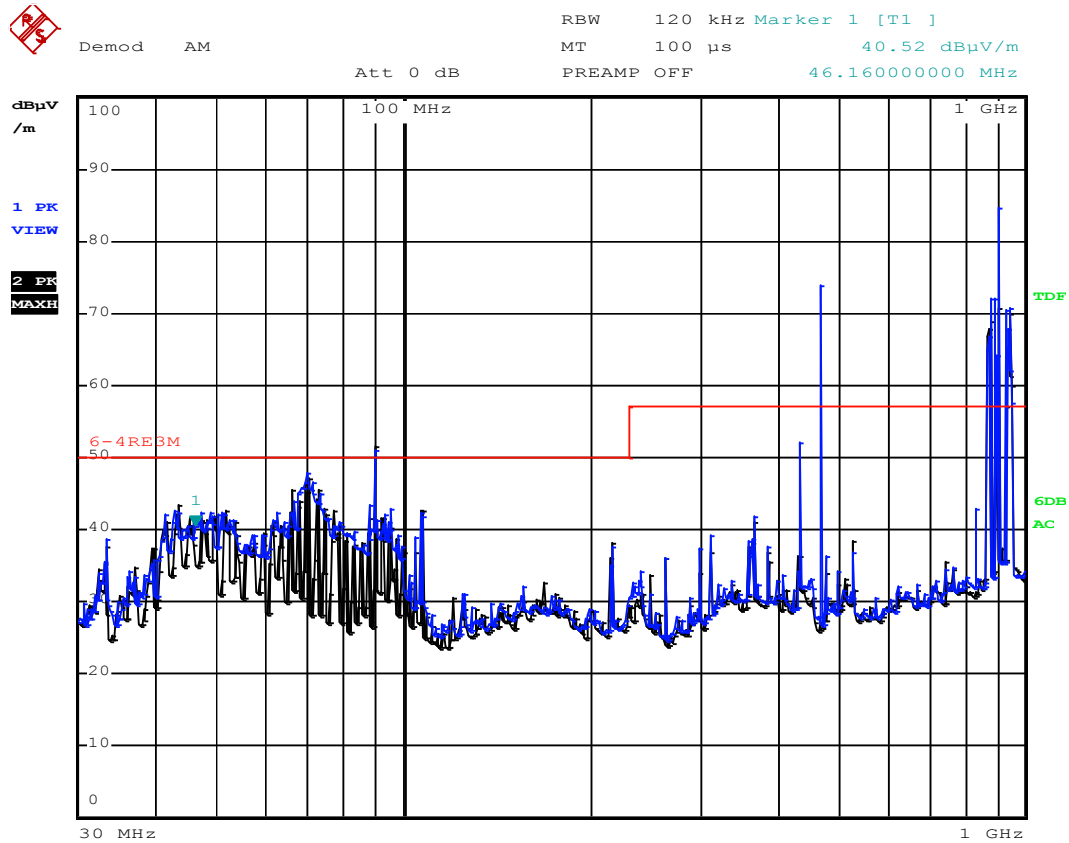
Demod AM

RBW 120 kHz Marker 1 [T1]
MT 100 μ s 38.85 dB μ V/m
PREAMP OFF 46.000000000 MHz

Att 0 dB



Antenna polarity : Horizontal Vertical



Summary:

Frequency (MHz)	Remark	Frequency (MHz)	Remark
32.120	Unknown	314.800	Unknown
33.160	Unknown	365.960	Unknown
33.200	Unknown	531.480	Unknown
36.000	Unknown	872.080-878.040	GSM
56.400	TV	935.720-956.140	GSM
62.400	Unknown		
88.360-107.120	FM		
150.000	Unknown		

Operating Mode : Background emission A-C point

Test By : Samuel Zhang

Test Date : 2017-07-17

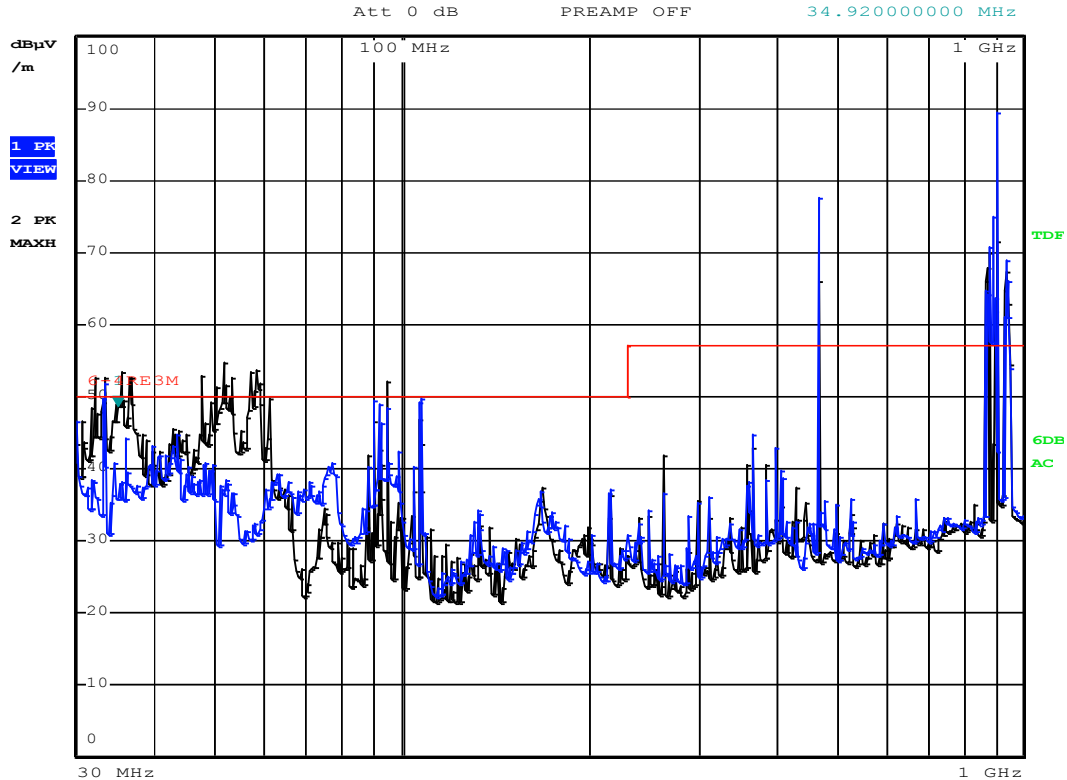


China

Radiated Emissions 30MHz-1000MHz



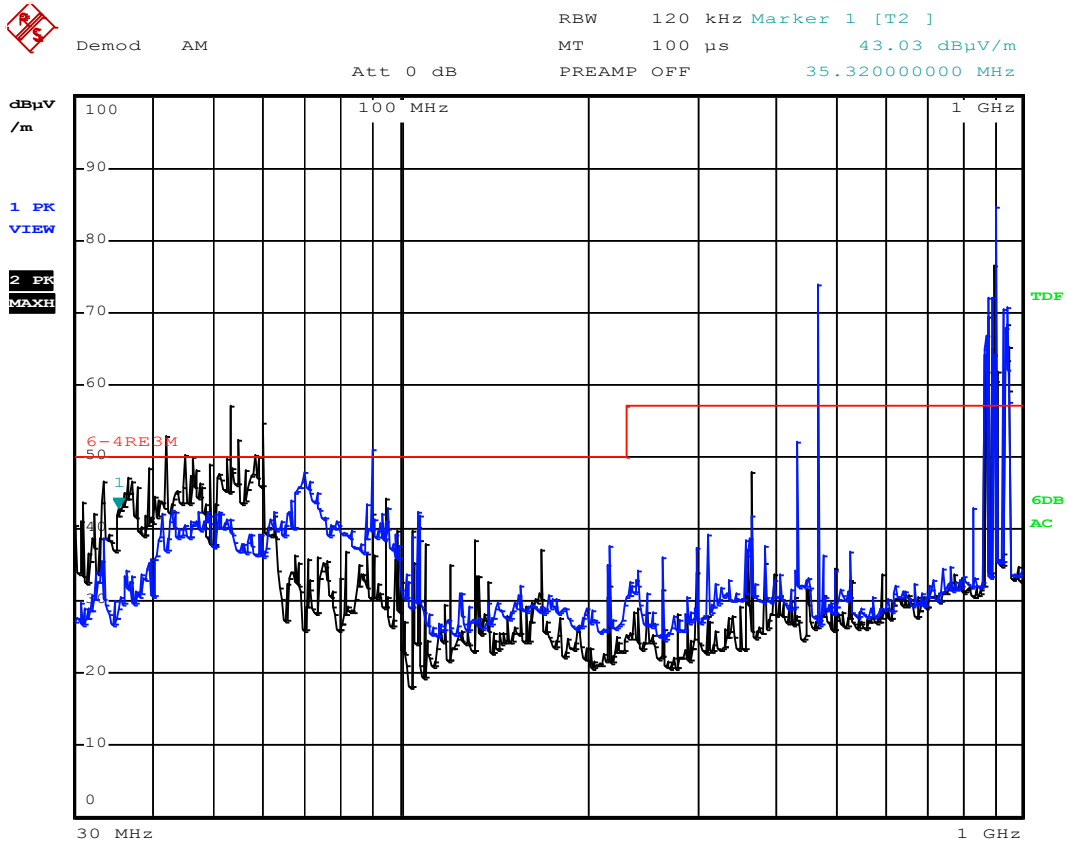
RBW 120 kHz Marker 1 [T2]
 MT 100 μ s 48.65 dB μ V/m
 PREAMP OFF 34.92000000 MHz



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
32.160	43.5	50
35.360	45.6	50
36.560	47.8	50
47.760	43.9	50
51.960	46.9	50
53.440	46.9	50
57.120	48.5	50
58.480	47.1	50
61.400	41.1	50

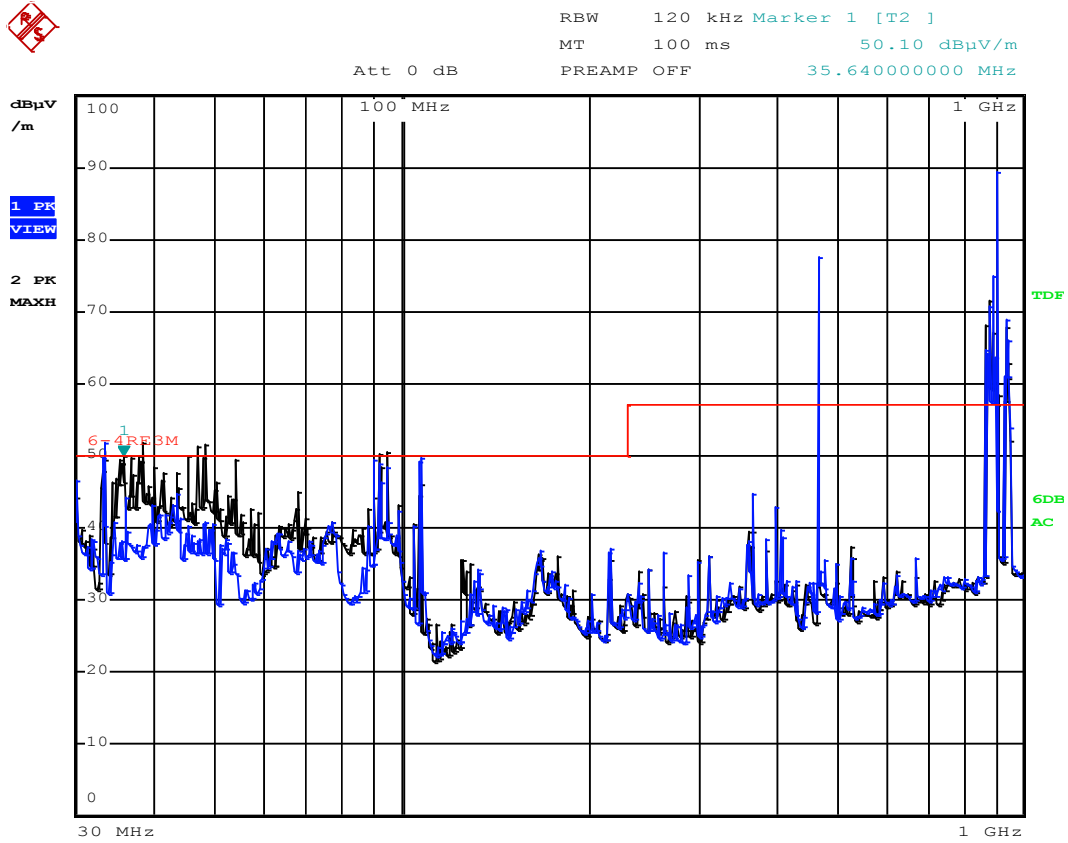
Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ A point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
36.960	44.6	50
37.800	41.6	50
39.300	39.5	50
42.080	38.3	50
45.00	44.1	50
46.240	45.2	50
50.060	48.9	50
52.700	46.1	50
53.360	46.2	50
54.840	46.6	50

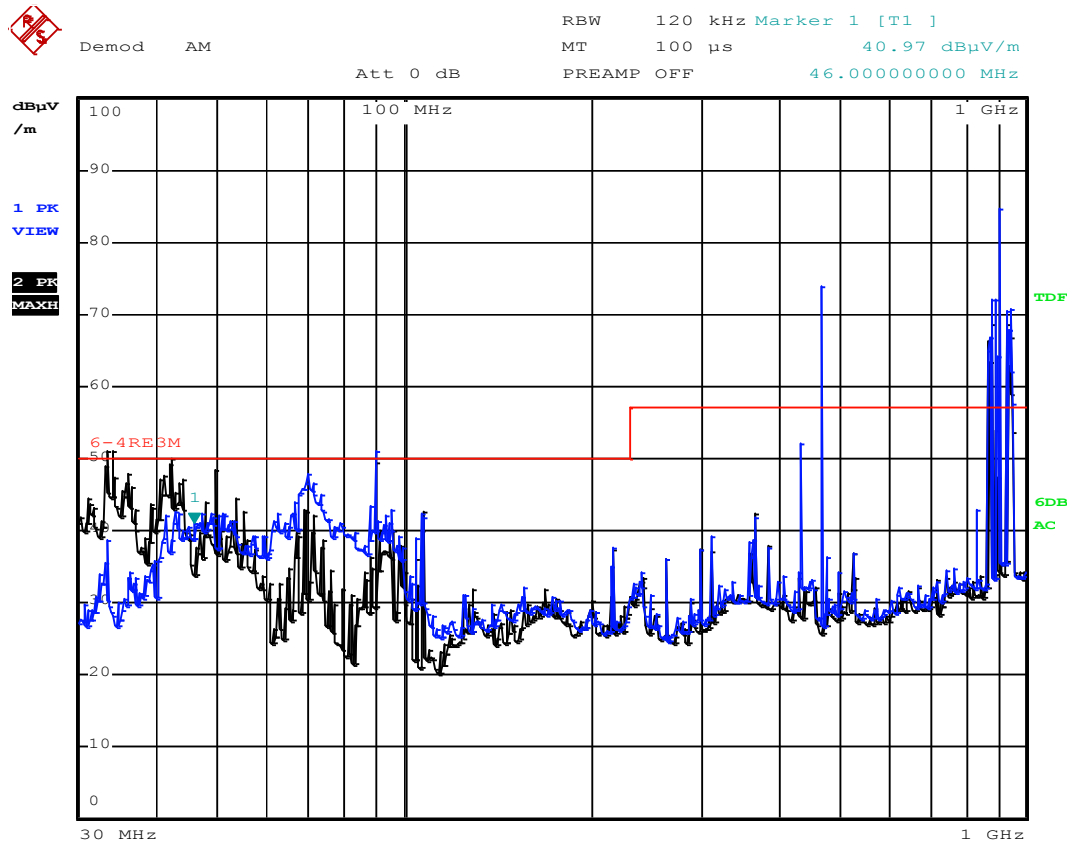
Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ A point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
35.240	45.5	50
36.760	45.2	50
38.200	44.1	50
45.240	39.8	50
48.400	44.2	50
54.120	37.2	50

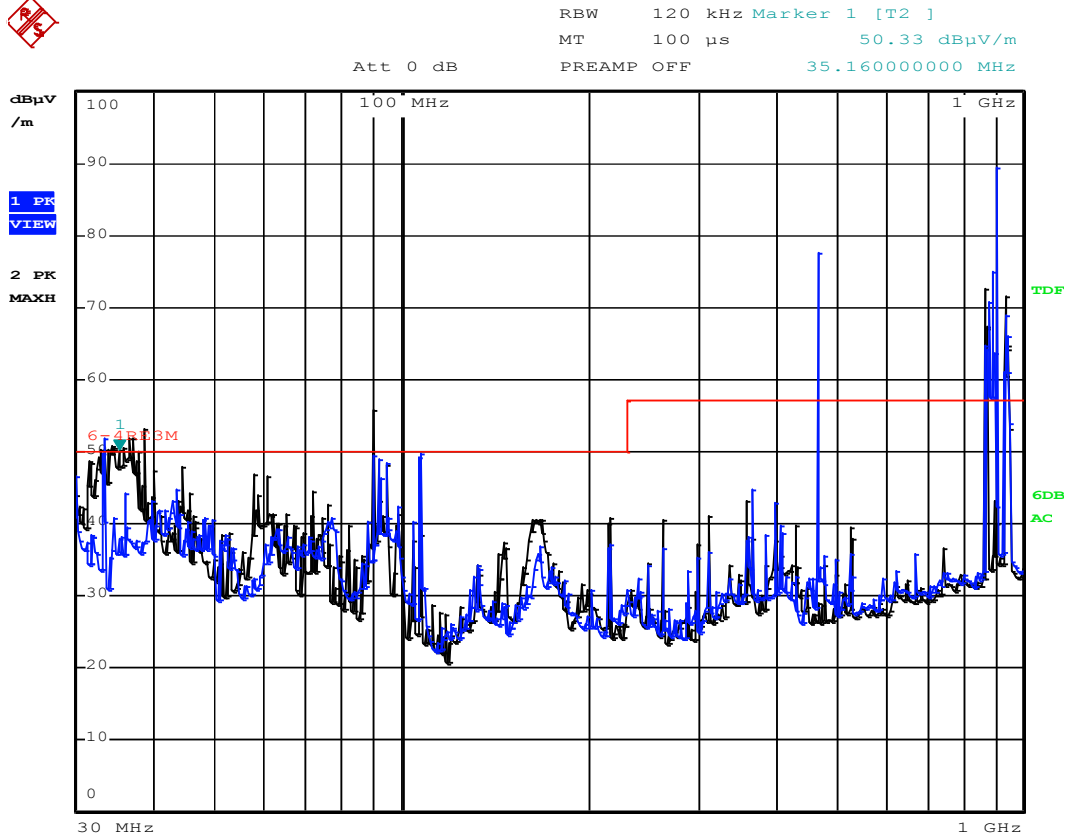
Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ B point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
34.000	41.9	50
32.240	42.9	50
36.040	42.4	50
42.200	41.4	50
43.960	41.1	50

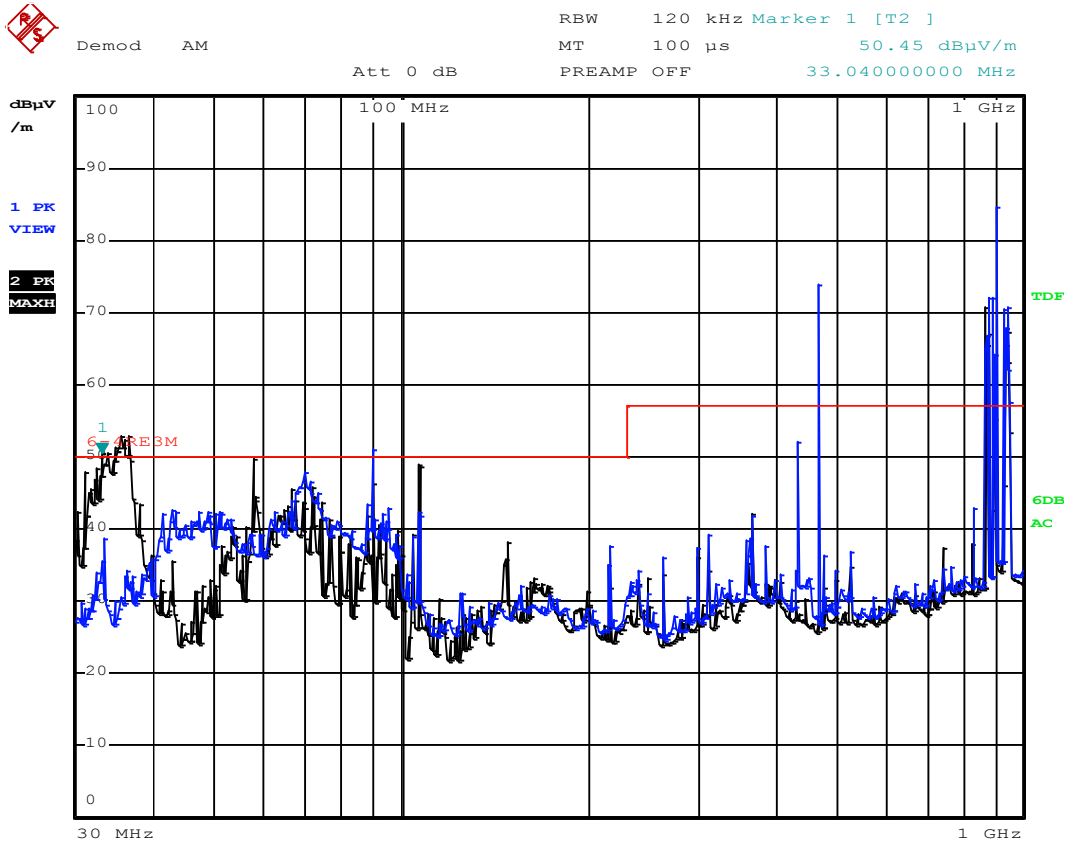
Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ B point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



Measurement result:

Frequency MHz	Level dB μ V/m	Limit dB μ V/m
31.480	36.9	50
33.760	38.7	50
36.960	41.4	50
38.520	34.9	50
44.280	40.6	50
57.800	43.2	50

Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ C point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



Measurement result:

Frequency MHz	Level dBuV/m	Limit dBuV/m
33.040	45.7	50
34.640	46.9	50
35.440	48.4	50
36.560	46.3	50
57.920	40.1	50

Antenna polarity : Horizontal Vertical
 Model : MV6-900WV2GN1-E
 Operating Mode : Cooling mode/ C point
 Test By : Samuel Zhang
 Test Date : 2017-07-18



China

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.





Label:





		
ALL DC INVERTER V6 INDIVIDUAL SERIES VRF AIR CONDITIONER OUTDOOR UNIT		
MODEL	MV6-i670WV2GN1-E	
COOLING CAPACITY	67.0kW	
HEATING CAPACITY	67.0kW	
POWER SOURCE	380-415V 3N~ 50Hz	
RATED CURRENT	MAX. 	54.5A/70A
NET WEIGHT	407kg	
REFRIGERANT	R410A/ 22000g	
PS	HIGH	4.2MPa
	LOW	2.6MPa
OUTDOOR RESISTANCE CLASS	IP 24	
		
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)		





		0036	
ALL DC INVERTER V6 SERIES VRF AIR CONDITIONER OUTDOOR UNIT			
MODEL	MV6-670WV2GN1-E		
COOLING CAPACITY	67kW		
HEATING CAPACITY	67kW		
POWER SOURCE	380-415V 3N~ 50Hz		
RATED CURRENT	MAX. 	48.4A/70A	
NET WEIGHT	430kg		
REFRIGERANT	R410A/ 22000g		
PS	HIGH	4.2MPa	
	LOW	2.6MPa	
OUTDOOR RESISTANCE CLASS	IP 24		
			
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)			





		0036	
ALL DC INVERTER V6 SERIES VRF AIR CONDITIONER OUTDOOR UNIT			
MODEL	MV6-730WV2GN1-E		
COOLING CAPACITY	73kW		
HEATING CAPACITY	73kW		
POWER SOURCE	380-415V 3N~ 50Hz		
RATED CURRENT	MAX. 	52.9A/70A	
NET WEIGHT	430kg		
REFRIGERANT	R410A/ 22000g		
PS	HIGH	4.2MPa	
	LOW	2.6MPa	
OUTDOOR RESISTANCE CLASS	IP 24		
			
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)			





		0036	
ALL DC INVERTER V6 INDIVIDUAL SERIES VRF AIR CONDITIONER OUTDOOR UNIT			
MODEL	MV6-i730WV2GN1-E		
COOLING CAPACITY	73kW		
HEATING CAPACITY	73kW		
POWER SOURCE	380-415V 3N~ 50Hz		
RATED CURRENT	MAX. 	52.9A/70A	
NET WEIGHT	429kg		
REFRIGERANT	R410A/ 22000g		
PS	HIGH	4.2MPa	
	LOW	2.6MPa	
OUTDOOR RESISTANCE CLASS	IP 24		
			
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)			





		0036	
ALL DC INVERTER V6 INDIVIDUAL SERIES VRF AIR CONDITIONER OUTDOOR UNIT			
MODEL	MV6-i785WV2GN1-E		
COOLING CAPACITY	78.5kW		
HEATING CAPACITY	78.5kW		
POWER SOURCE	380-415V 3N~ 50Hz		
RATED CURRENT	MAX. 	58.7A/70A	
NET WEIGHT	429kg		
REFRIGERANT	R410A/ 22000g		
PS	HIGH	4.2MPa	
	LOW	2.6MPa	
OUTDOOR RESISTANCE CLASS	IP 24		
			
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)			

		0036	
ALL DC INVERTER V6 SERIES VRF AIR CONDITIONER OUTDOOR UNIT			
MODEL	MV6-785WV2GN1-E		
COOLING CAPACITY	78.5kW		
HEATING CAPACITY	78.5kW		
POWER SOURCE	380-415V 3N~ 50Hz		
RATED CURRENT	MAX. 	58.7A/70A	
NET WEIGHT	430kg		
REFRIGERANT	R410A/ 22000g		
PS	HIGH	4.2MPa	
	LOW	2.6MPa	
OUTDOOR RESISTANCE CLASS	IP 24		
			
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)			

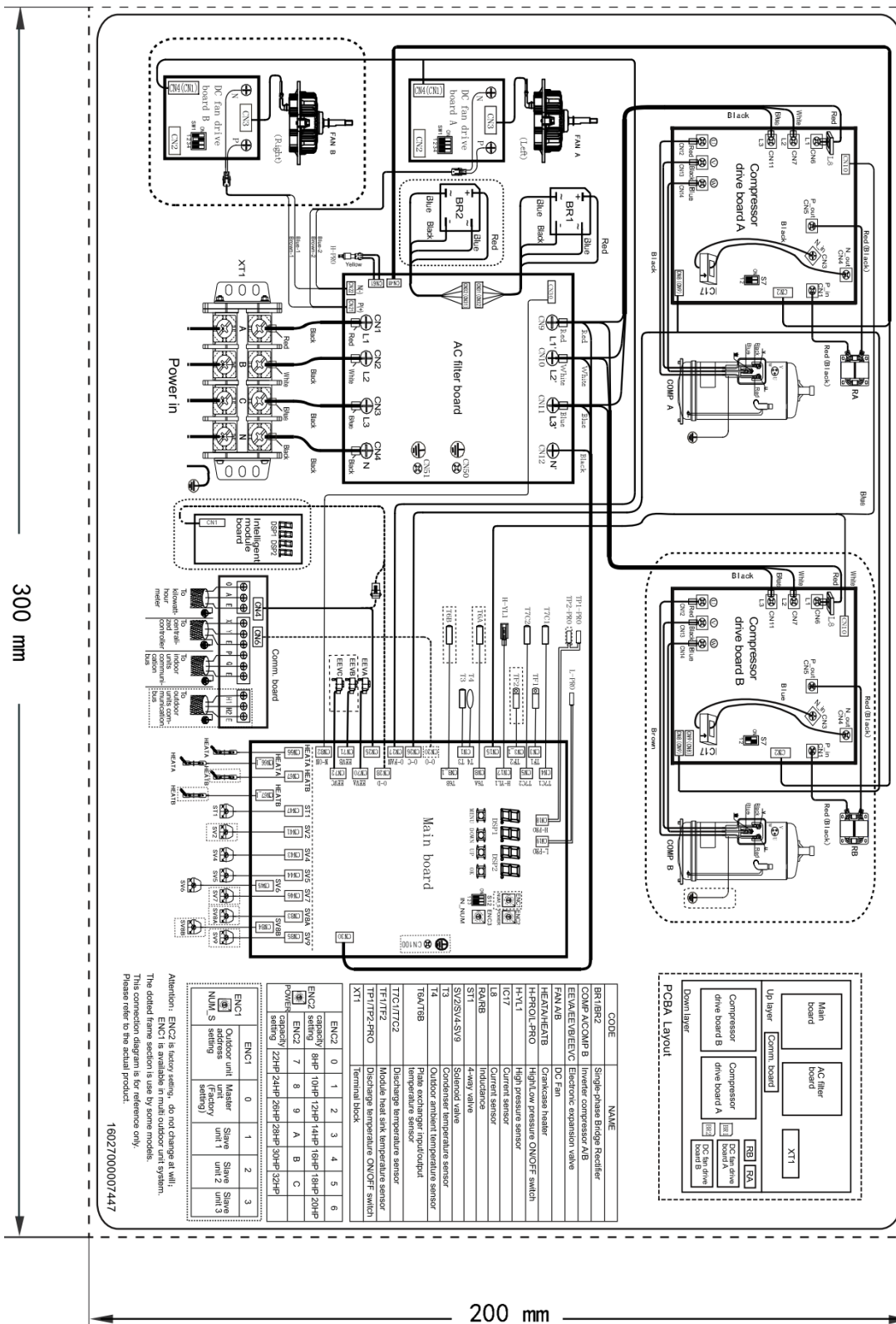
 	
ALL DC INVERTER V6 INDIVIDUAL SERIES VRF AIR CONDITIONER OUTDOOR UNIT	
MODEL	MV6-i850WV2GN1-E
COOLING CAPACITY	85kW
HEATING CAPACITY	85kW
POWER SOURCE	380-415V 3N~ 50Hz
RATED CURRENT	MAX.  64.9A/80A
NET WEIGHT	475kg
REFRIGERANT	R410A/ 25000g
PS	HIGH 4.2MPa
	LOW 2.6MPa
OUTDOOR RESISTANCE CLASS	IP 24
	
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)	

 	
ALL DC INVERTER V6 SERIES VRF AIR CONDITIONER OUTDOOR UNIT	
MODEL	MV6-850WV2GN1-E
COOLING CAPACITY	85kW
HEATING CAPACITY	85kW
POWER SOURCE	380-415V 3N~ 50Hz
RATED CURRENT	MAX.  64.9A/80A
NET WEIGHT	475kg
REFRIGERANT	R410A/ 25000g
PS	HIGH 4.2MPa
	LOW 2.6MPa
OUTDOOR RESISTANCE CLASS	IP 24
	
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)	

 	
ALL DC INVERTER V6 INDIVIDUAL SERIES VRF AIR CONDITIONER OUTDOOR UNIT	
MODEL	MV6-i900WV2GN1-E
COOLING CAPACITY	90kW
HEATING CAPACITY	90kW
POWER SOURCE	380-415V 3N~ 50Hz
RATED CURRENT	MAX.  66.9A/80A
NET WEIGHT	475kg
REFRIGERANT	R410A/ 25000g
PS	HIGH 4.2MPa
	LOW 2.6MPa
OUTDOOR RESISTANCE CLASS	IP 24
	
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)	

 	
ALL DC INVERTER V6 SERIES VRF AIR CONDITIONER OUTDOOR UNIT	
MODEL	MV6-900WV2GN1-E
COOLING CAPACITY	90kW
HEATING CAPACITY	90kW
POWER SOURCE	380-415V 3N~ 50Hz
RATED CURRENT	MAX.  66.9A/80A
NET WEIGHT	475kg
REFRIGERANT	R410A/ 25000g
PS	HIGH 4.2MPa
	LOW 2.6MPa
OUTDOOR RESISTANCE CLASS	IP 24
	
GD Midea Heating & Ventilating Equipment Co.,Ltd. (Penglai Industry Road,Beijiao,Shunde, Foshan, Guangdong,528311,P.R.China)	

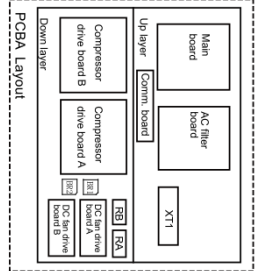
Wiring diagram for all models



300 mm

200 mm

Label



CODE	NAME
BR1BR2	Single-phase Bridge Rectifier
COMP_A/COMP_B	Inverter compressor A/B
EEV/A/EEV/B/EVC	Electronic expansion valve
FAN A/B	DC Fan
HEAT/HT/HTB	Crackcase heater
H-PROT_PRO	High/low pressure ON/OFF switch
H-V1.1	High pressure sensor
IC17	Current sensor
LA/RNB	Inductance
ST1	4-way valve
SV2/SV4/SV6	Solenoid valve
T3	Compressor temperature sensor
T4	Outdoor ambient temperature sensor
T6A/T6B	Pressure sensor
TTG1/TTG2	Discharge temperature sensor
TE1/TE2	Module heat sink temperature sensor
TP1/TP2-FRO	Discharge temperature ON/OFF switch
XT1	Terminal block

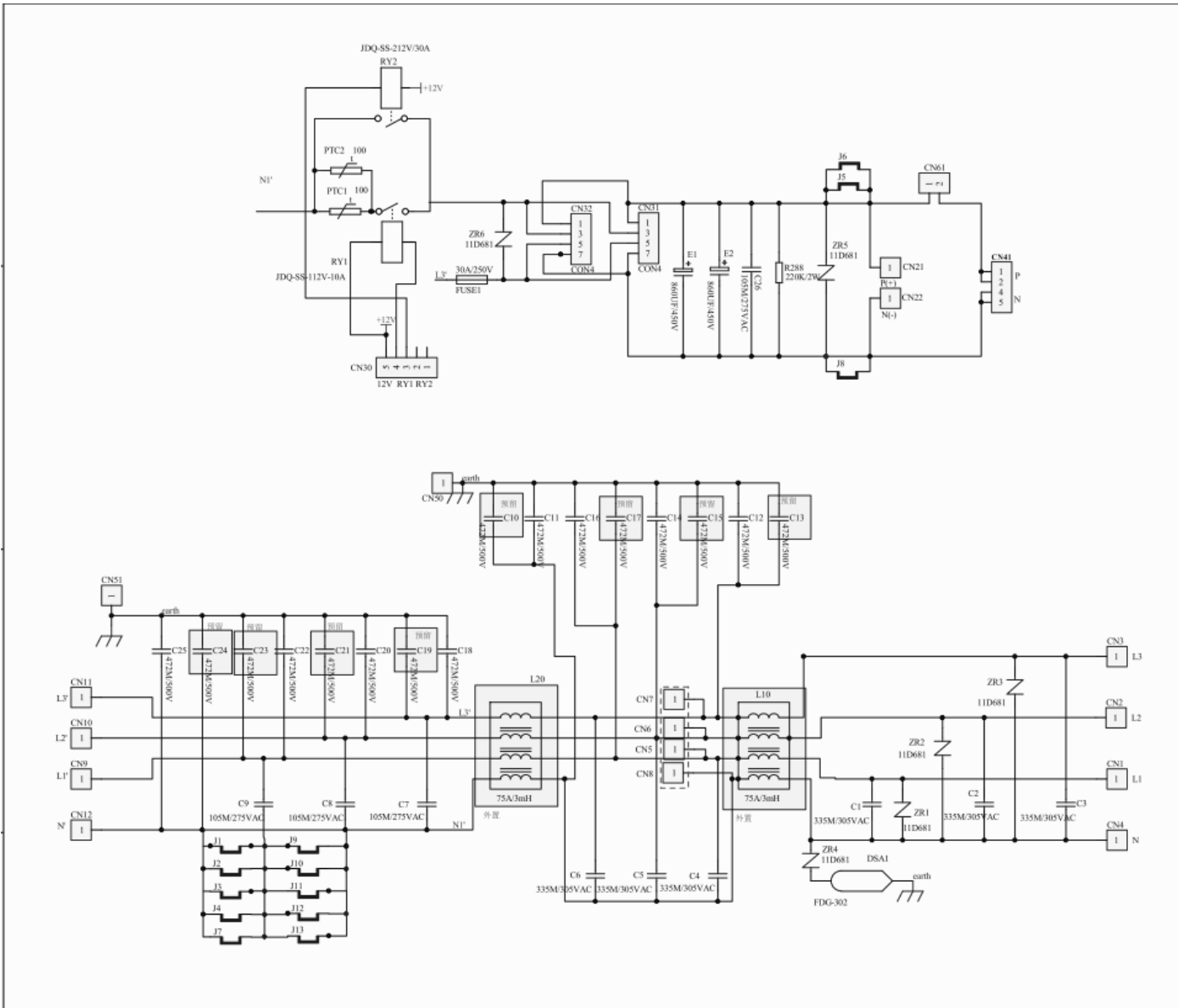
ENC2	0	1	2	3	4	5	6
capacity	94P	104P	124P	144P	164P	184P	204P
ENC2 setting	8	9	A	B	C		
COMP capacity	224P	244P	264P	284P	304P	324P	

ENC1	0	1	2	3
Outdoor unit	Master	Slave	Slave	Slave
Unitarity setting	unit 1	unit 2	unit 1	unit 3
N.M.S setting				

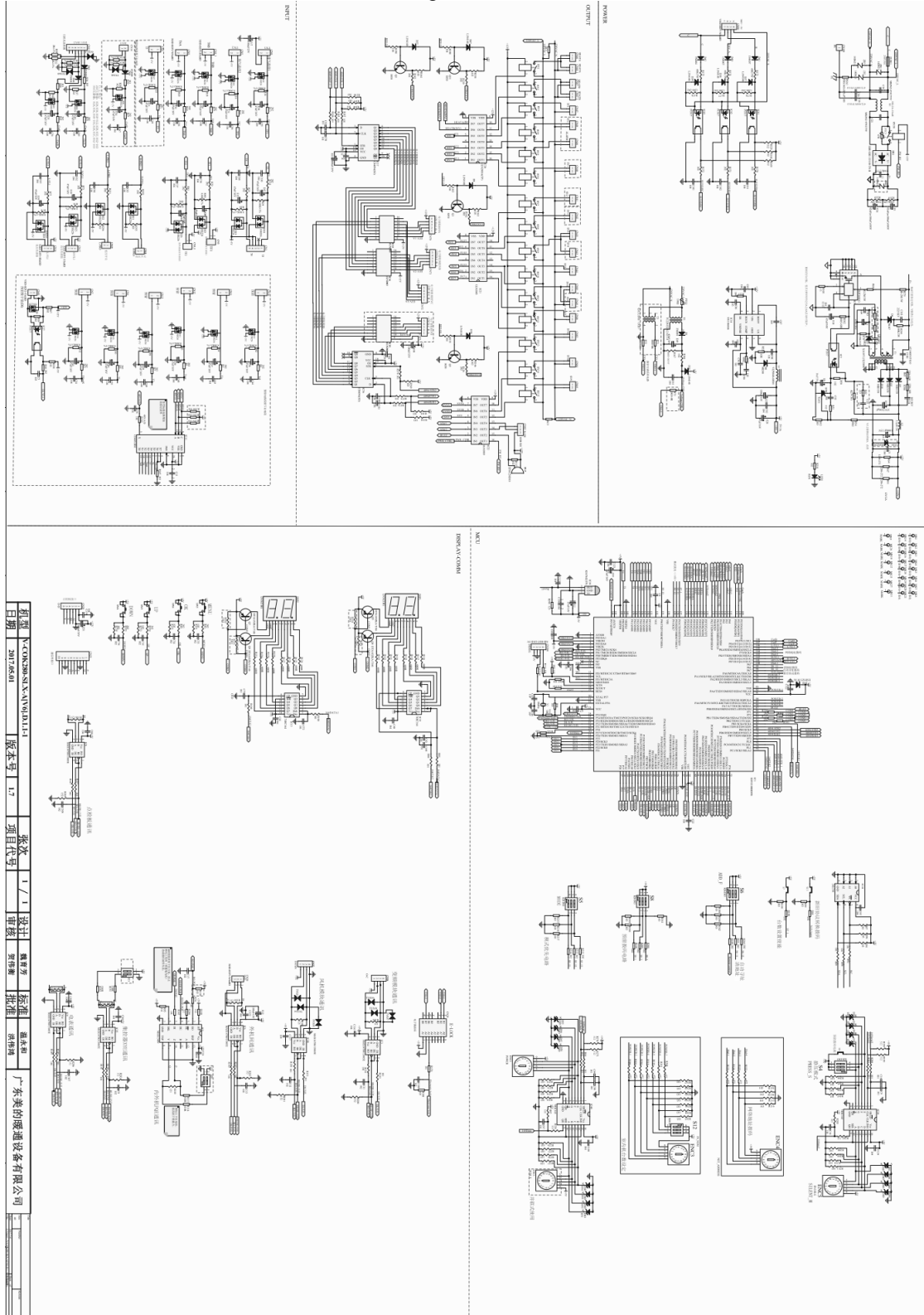
Attention: ENC2 is error setting, do not change it will.
 The dotted frame section is used by some models.
 This connection diagram is for reference only.
 Please refer to the actual product.

1802700007447

Circuit diagram for EMC Filter

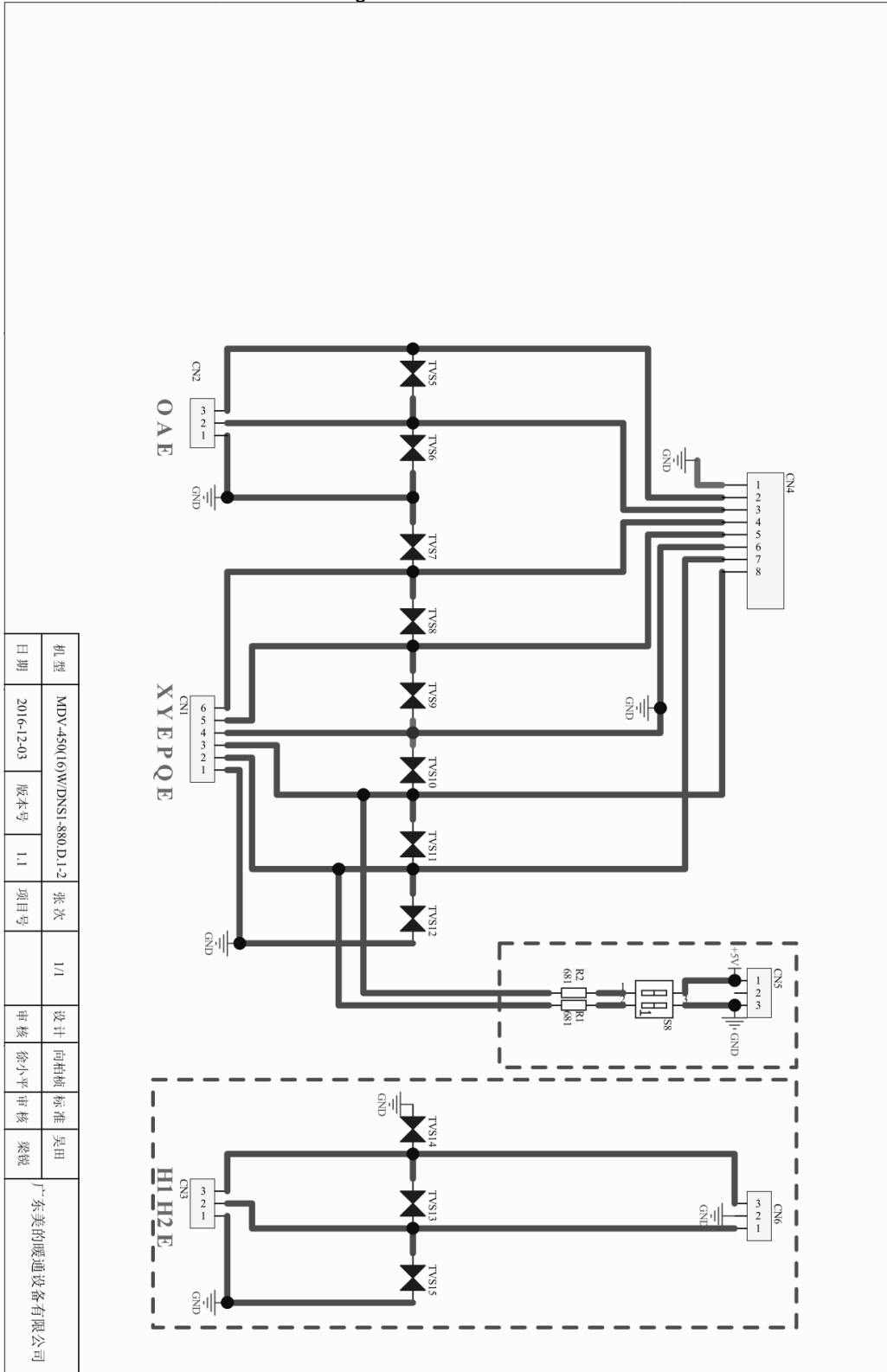


Circuit diagram for main unit



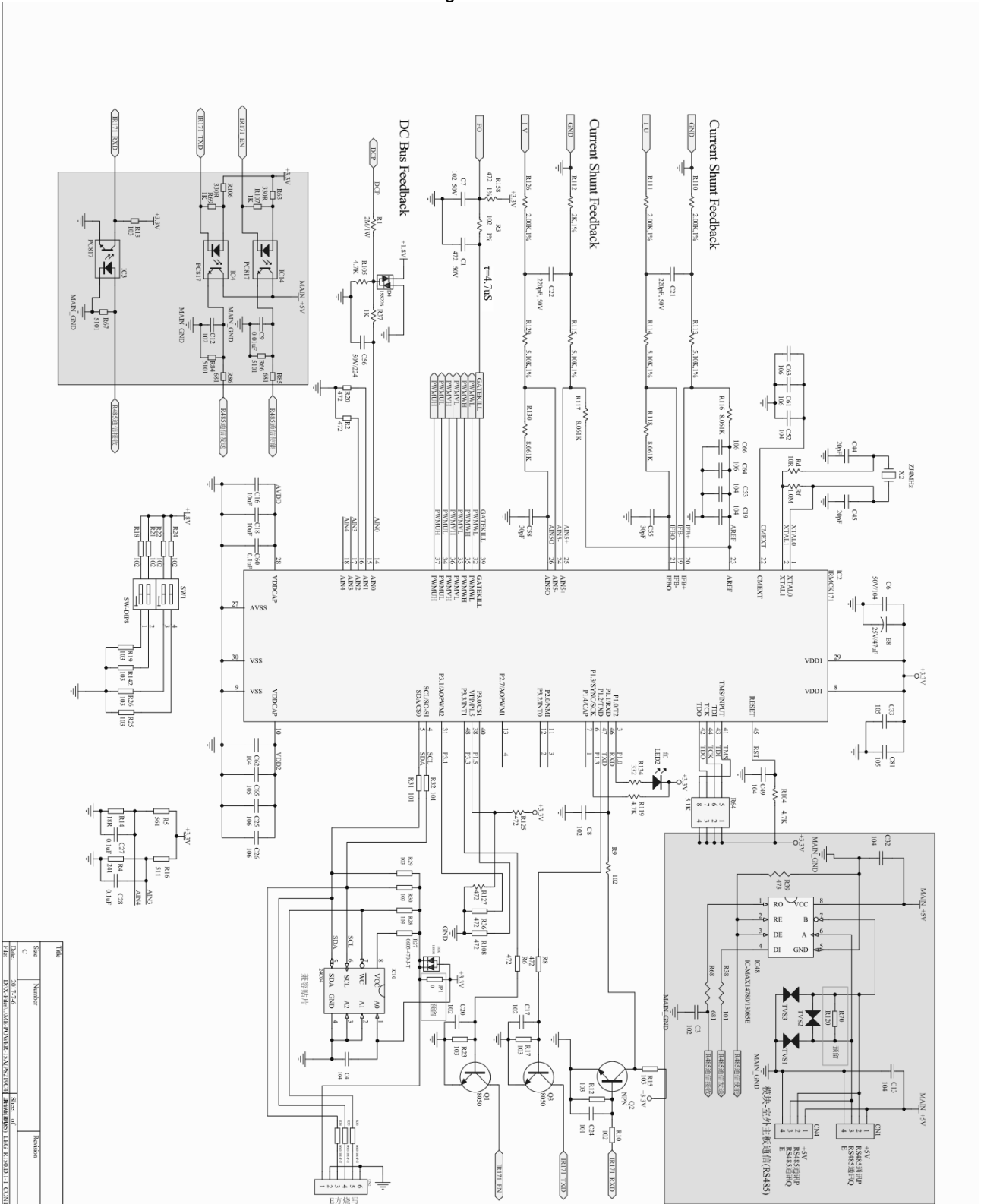
日期	2017/05/01	版本	1.0	设计	审核	批准	广东美的暖通设备有限公司
机种	KC6088N-AV141A1.1	版本号	1.0	设计	审核	批准	广东美的暖通设备有限公司

Circuit diagram for communication unit

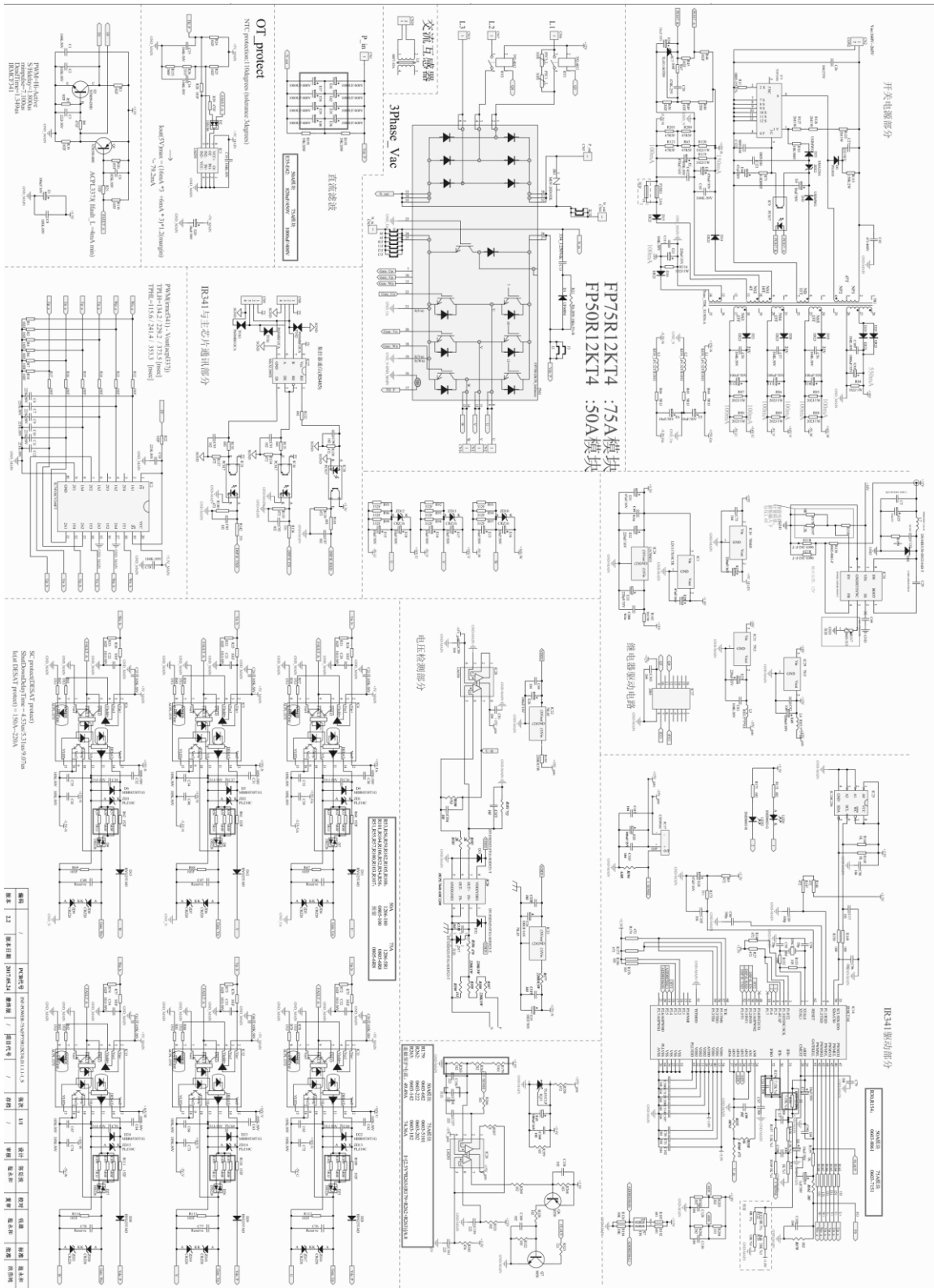


机型	MDV-450Q(6)W/DNS1-880.D.1-2	张次	I/1	设计	向柏楠	标准	吴田	广东美的暖通设备有限公司
日期	2016-12-03	版本号	1.1	项目号	徐小平	审核	梁锐	

Circuit diagram for fan module



Circuit diagram for compressor control unit





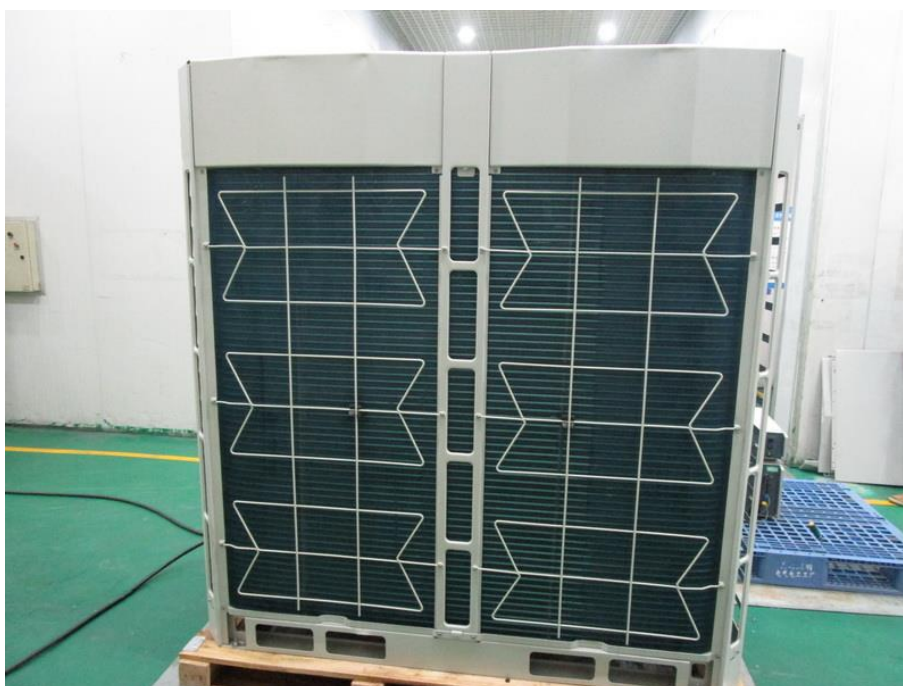
China

Appendix C

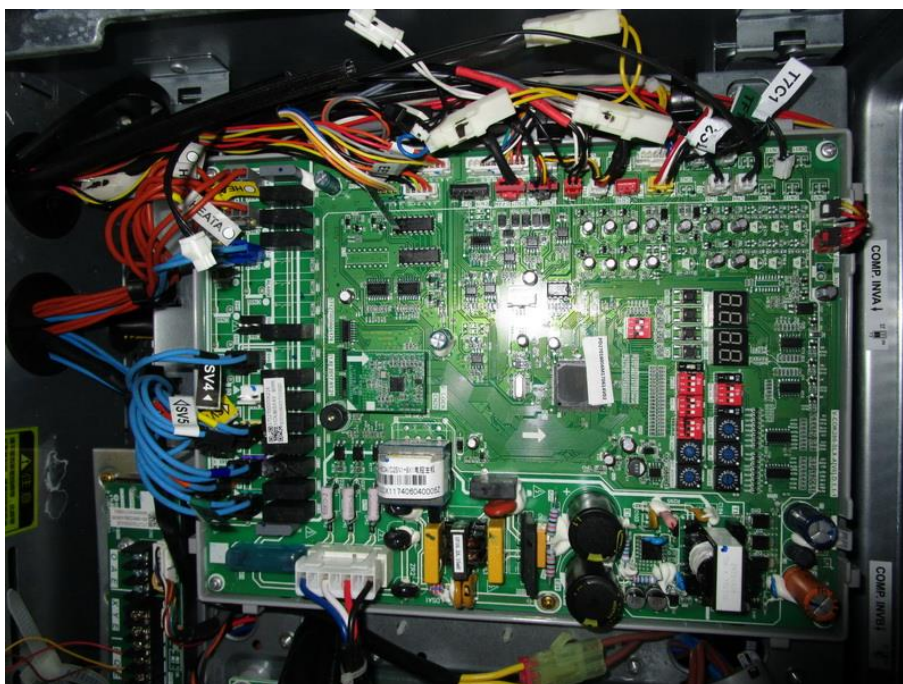
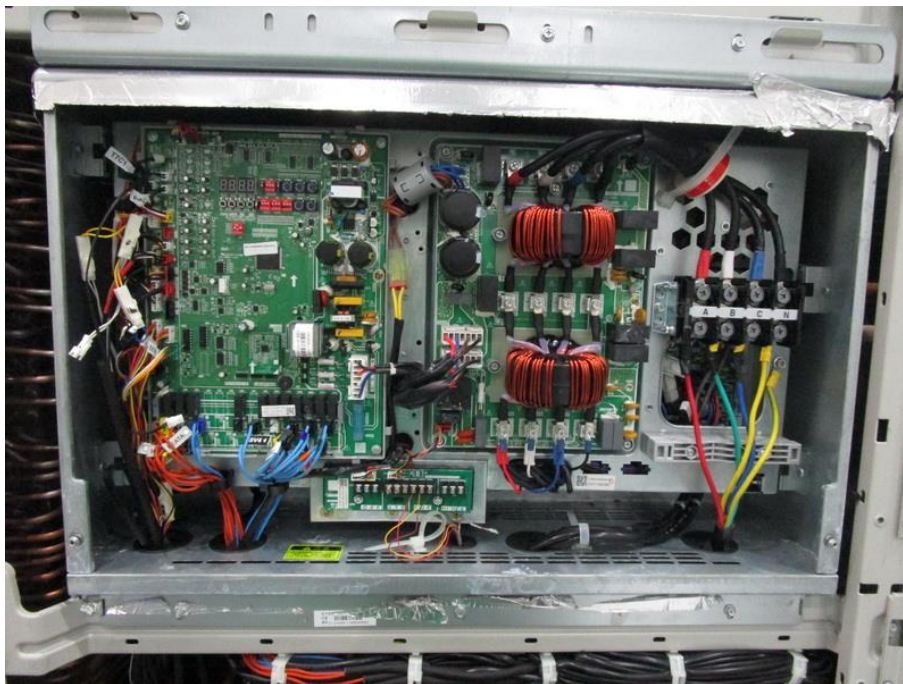
Constructional Photographs
of
Equipment under test (EUT)

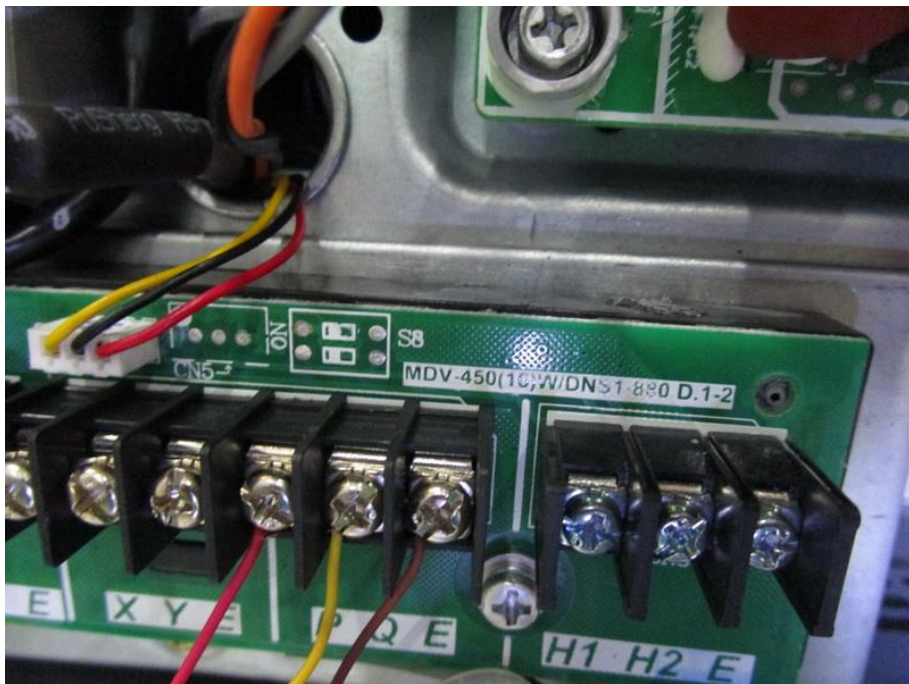
Constructional Photographs

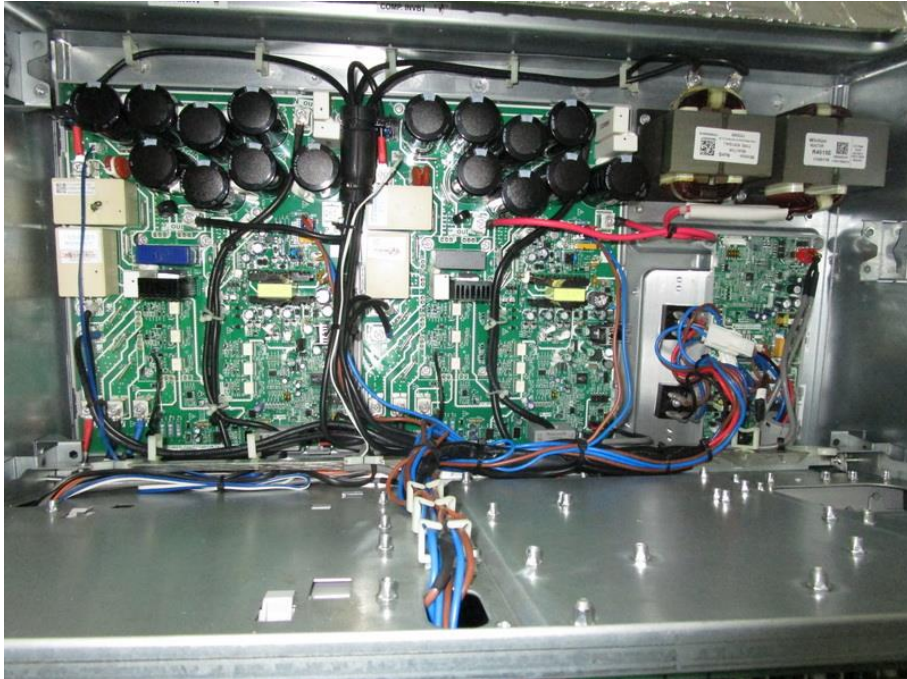
MV6-900WV2GN1-E



Constructional Photographs







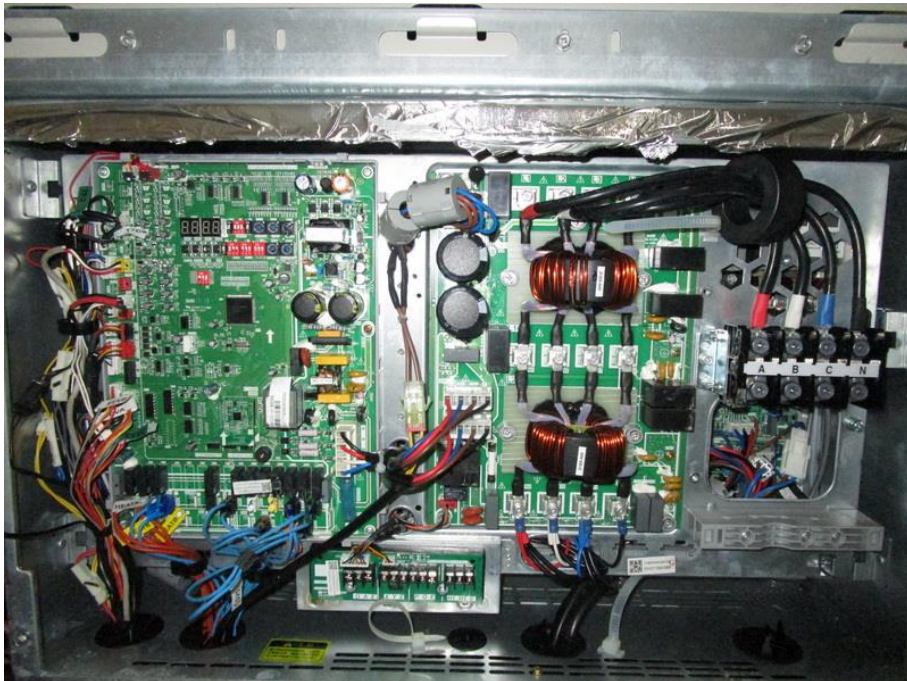


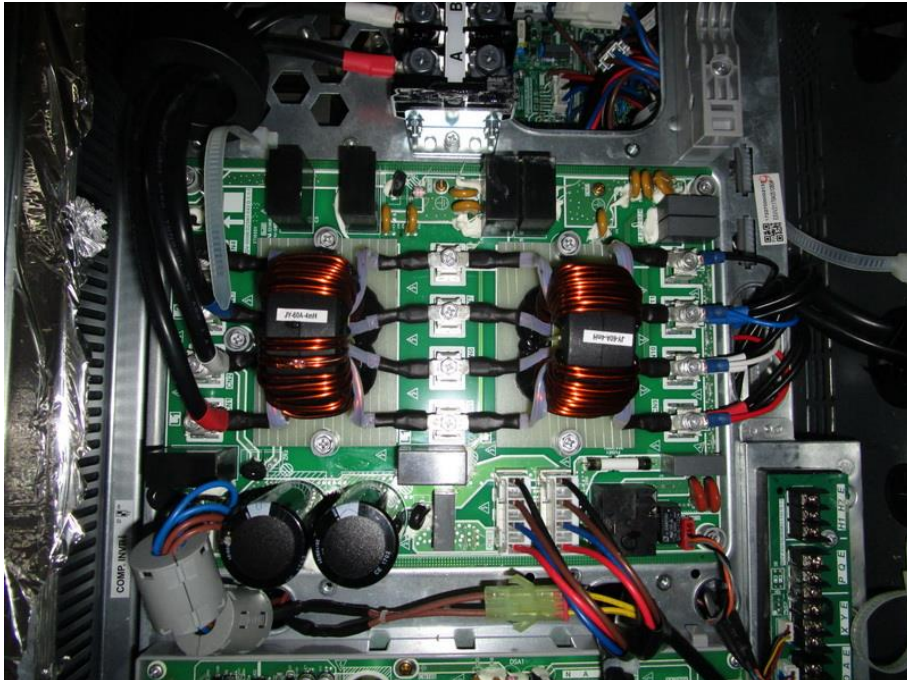
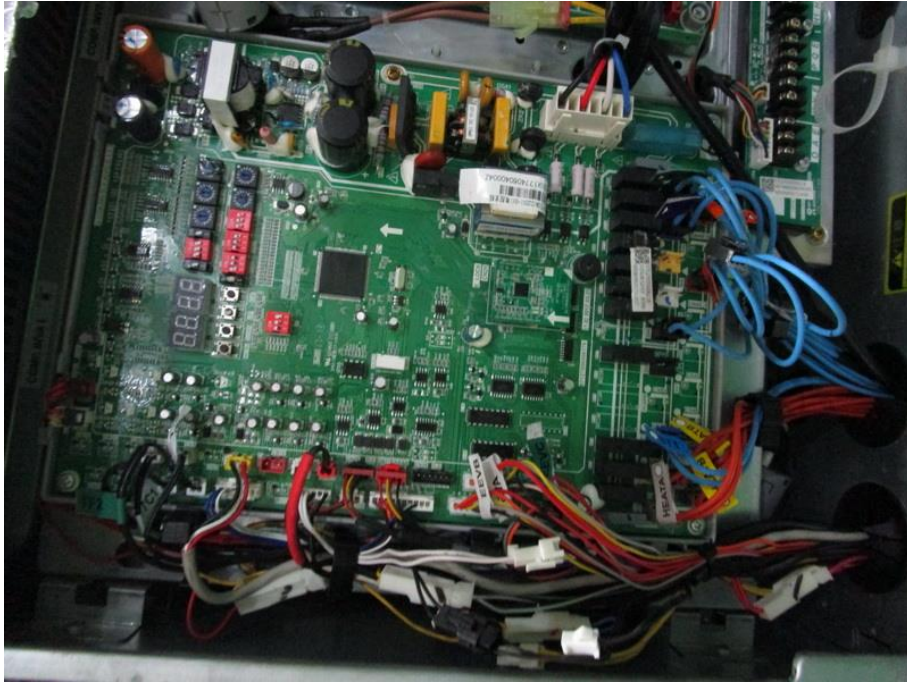


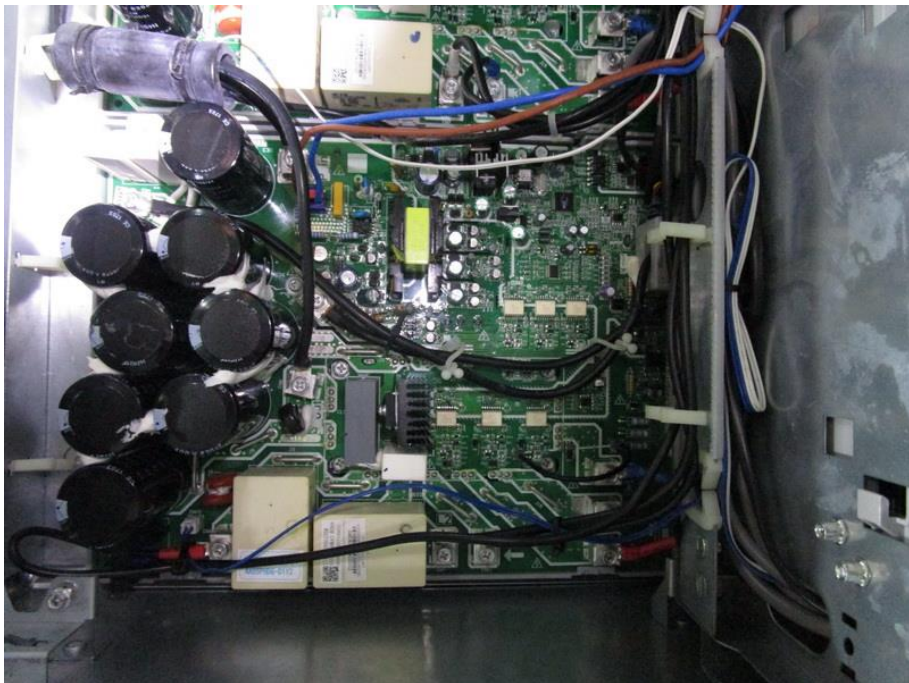
Constructional Photographs

MV6-785WV2GN1-E

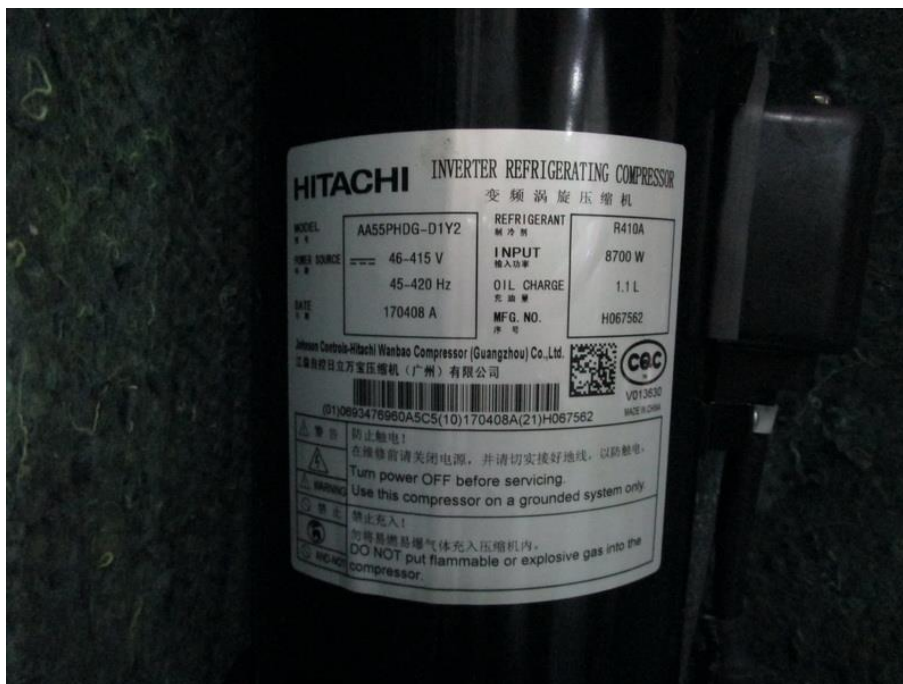














China

EMC IMMUNITY - TEST REPORT

Report Number : **64.711.17.03925.01- (I)** Date of Issue: 2017-11-26

Model : MGA-D30W/SN1, MV6-785WV2GN1-E

Product Type : Air-Cooled Modular Chiller Air Conditioner Outdoor Unit

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

Trade Name : Midea, MDV

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

Test Result : **■ Not performed**



Total pages including
Appendices : 21

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

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China

IMMUNITY TEST REGULATIONS :

The immunity tests were performed according to the following regulations :

■ - EMC - Directive 2014/30/EU and its amendments

■ - EN61000-6-2:2017

- - IEC 61000-4-2:2012
- - IEC 61000-4-3:2006+A1:2007+A2:2010
- - IEC 61000-4-4:2012
- - IEC 61000-4-5:2014
- - IEC 61000-4-6:2013
- IEC 61000-4-8:2009
- - IEC 61000-4-11:2004
- IEC 61000-4-20:2010
- IEC 61000-4-21:2011
- IEC 61000-4-22:2010
- IEC 61000-4-34:2010

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:	: 18-20°C
Relative Humidity:	: 46- 50%
Atmospheric Pressure:	: 1040 mBar

Rated of EUT:

Rated voltage: 380 -415 V , 3N ~
Rated frequency: 50 Hz

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 of ± 4 dB. 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:

- -TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Add: 5F, Communication Building, 163 Pingyun Rd. Guangzhou 510656 P.R.China

Test location:

- -GD Midea Heating & Ventilating Equipment CO.,LTD.
Add: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, P. R. China



China

Immunity Test Conditions: RADIATED ELECTROMAGNETIC FIELDS

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

- Test not applicable

■ - Shielded room : Bare shielded room

Test Equipment Used :

Model	Manufacturer	Test Equipment	Serial No.	Cal.Due Date
<input type="checkbox"/> - 150W1000A	Amplifier Research	Power Amplifier	640101031	2018-06-07
<input type="checkbox"/> - HI-6005	ETS	Probe	32040060	2018-06-07
<input type="checkbox"/> - SMT06	R&S	Signal Generator	100871	2018-06-07
<input type="checkbox"/> - 3142B	ETS	Antenna	00026414	2018-06-07
<input type="checkbox"/> - 2090	ETS	Multi-Device Controller	00122439	2018-06-07
<input type="checkbox"/> - Y21953	ETS-LINDGREN	Video Control Unit	2201014	2018-06-07
<input type="checkbox"/> - RFD-F-100	ETS-LINDGREN	High Performance Shielding Room	2689	2018-06-07
■ - VX-8R	YAESU	Triple-Band Transceiver	9G160818	2018-05-31
■ - C199	Huawei	GSM Mobile Phone	2014CP4091	2018-05-31
■ - WNDR4300	Netgear	750m Wireless Dual Band Gigabit Router	3XG1715C00339	2018-06-07

Test Specification:

Frequency Range/Field Strength:

- 1 V/m (2000- 2700 MHz)
- 3 V/m (1.4-2GHz)
- 10 V/m (80-1000MHZ)
- - 50/144/430MHz 5W walkie-talkie
- - GSM 850/900/1800/1900
- - Bluetooth
- - 802.11b/g/n

Distance Antenna - EUT:

- -0.1-0.5 m
- 3 m

Modulation:

- AM : __80_% _1__kHz
- FM : __ kHz dev. __ kHz
- sine wave:
- unmodulated
- Pulse ON/OFF Duty Cycle: __ %
- ≤ 1%

Step:

Polarization of Antenna:

- Horizontal
- Vertical

Position:

around the enclosure of EUT and Control unit

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: _____



China

Immunity Test Conditions: FAST TRANSIENTS (BURST), continued

Location of Coupling:

name of lines: Main unit AC power cord
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: Controller signal 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: _____



China

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

■ - Open Area

Test Equipment Used :

Model Number	Manufacturer	Description	Serial Number	Cal. Due
■ - NSG-2070	SCHAFFNER	RF-Generator	1123	2018-03-08
■ - CDN M016	SCHAFFNER	COUPLING AND DECOUPLING NETWORK	21267	2018-04-12
■- CDN M525	SCHAFFNER	COUPLING AND DECOUPLING NETWORK	21133	2018-04-12
■- KEMZ 801	SCHAFFNER	EM-Clamp	25476	2018-04-12
■ - INA 2070	SCHAFFNER	Attenuator	2123	2018-04-12
<input type="checkbox"/> - MD720	SCHAFFNER	Current Monitor	0090	2018-04-12

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

Test Specification:

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

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

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

Step: - 1%



China

Immunity Test Conditions: CONDUCTED DISTURBANCE, continued

Location of Coupling:

name of lines: Main unit AC power cord
 type of lines: - shielded - unshielded
 status of lines: - passive - active
 kind of transmission: - analog - digital
 length of lines: _____

name of lines: Controller signal 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: _____



China

Immunity Test Conditions: PF FREQUENCY MAGNETIC FIELD

The immunity against *PF FREQUENCY MAGNETIC FIELD* exposure, induced by radio frequency fields above 9 kHz, was performed in the following test location:

- Test not applicable

- Open area

Test Equipment Used :

Model Number	Manufacturer	Description	Serial Number	Cal. Due
<input type="checkbox"/> - NS61000-8K	SANKI	MAGNETIC Generator	090391E	
<input type="checkbox"/> - -----	SANKI	Coil	-----	

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

Test Specification:

- Frequency Range: - 50 Hz - 60 Hz - 400 Hz
- Field level (EMF): - 1 A/m - 3 A/m - 10 A/m
 - 30 A/m - 100 A/m - ___ A/m
- Short Field (1-3 sec): - 300 A/m - 1000 A/m - ___ A/m
- Duration: - 120 seconds
- Axis of Orientation: - X-axis - Y-axis - Z-axis

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 does not containing any devices susceptible to magnetic fields, no test applied.



China

Immunity Test Conditions: VOLTAGE DIPS, INTERRUPTIONS & VARIATIONS

The immunity against *VOLTAGE DIPS, INTERRUPTIONS & VARIATIONS* events, was performed in the following test location:

- Test not applicable

■ - Shielded room : Bare shielded room

Test Equipment Used :

Model Number	Manufacturer	Description	Serial Number	Cal. due date
<input type="checkbox"/> - MODULA6150	Teseq	Immunity test system	34595	2017-11-22
<input type="checkbox"/> - MCDN01	TUV	Multi coupling Network	GZEMC001	2017-11-30

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

Test Specification:

Level of Reduction (dip):

- 0.5 cycle at 0% of V_{NOM}
- 1 cycle at 0% of V_{NOM}
- 25 cycle at 30% of V_{NOM} (50Hz)
- 30 cycle at 30% of V_{NOM} (60Hz)

Interruptions:

- - 250 cycle at 0% of V_{NOM} (50Hz)
- - 300 cycle at 0% of V_{NOM} (60Hz)

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: Voltage interruptions tests have been applied on EUT and need manual restarted after voltage recover to normal.



China

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:

- | | | |
|--|-------------|------------------------|
| <input checked="" type="checkbox"/> - Indoor unit | Type : | MDV-D28T2BP2N1-C3 |
| <input checked="" type="checkbox"/> - Indoor unit | Type : | CE-MDVD140T2BP2N1X-BA5 |
| <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 | TÜVPS. No.: | _____ |
| <input type="checkbox"/> - customer specific cables | | |
| <input type="checkbox"/> - _____ | | |
| <input type="checkbox"/> - _____ | | |



China

GENERAL REMARKS:

MV6-i670WV2GN1-E, MV6-i730WV2GN1-E, MV6-i785WV2GN1-E, MV6-670WV2GN1-E, MV6-730WV2GN1-E, MV6-785WV2GN1-E are identical in circuit diagram and critical components, different in model name and pressure tank numbers.

MV6-i850WV2GN1-E, MV6-i900WV2GN1-E, MV6-850WV2GN1-E, MV6-900WV2GN1-E are identical in circuit diagram and critical components, different in model name and pressure tank numbers.

Tests have applied on MV6-785WV2GN1-E, MV6-900WV2GN1-E only.

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: 2017-07-18

Testing End Date: 2017-07-19

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

Reviewed by:

Prepared by:



China

Appendix A

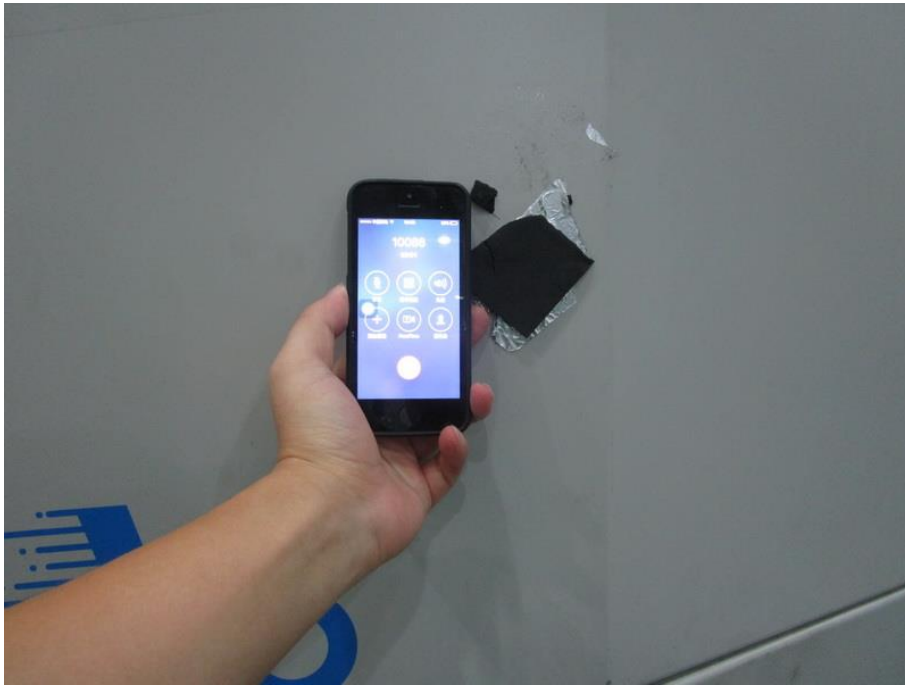
Test Setup Photo(s),

☒ Test Setup: Electrostatic Discharge (ESD)



☒ Test-setup: Radiated Immunity







China

☒ **Test-setup: Fast Transients (Burst) / Surges tests**



☒ **Test-setup: Conducted Immunity**



☒ Test-setup: Voltage Dips, Interruptions & Variations

