

TEST REPORT



DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042

Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DREFCC1708-0192(1)
2. Customer
 - Name : LG Electronics MobileComm USA, Inc.
 - Address : 1000 Sylvan Ave. Englewood Cliffs NJ 07632
3. Use of Report : FCC Certification of Conformity Marking
4. Product Name / Model Name : Mobile phone / LGM-V300V
5. Test Method Used : CAN/CSA CISPR 22-10
ANSI C 63.4:2014
ICES-003:2012
FCC Part 15 Subpart B
(Class B personal computers and peripherals)
6. Date of Test : 2017-08-17 ~ 2017-08-18
7. Testing Environment : Temperature (24 ~ 27) °C , Humidity (49 ~ 55) % R.H.
8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Technical Manager
	Name : MinSu Park  (Signature)	Name : DaeHwa Eun  (Signature)

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.

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2017. 08. 18.

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

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1. General Remarks

This report contains the result of tests performed by:

DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042

<http://www.dtnc.net>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

DT&C Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-1 5740A-2	Registered
	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, T-1442, G-10338, G-754, G-815	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 17 01 89112 004	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

3. General Information of EUT

Product Name	Mobile phone
Model Name	LGM-V300V
Add Model Name	LGMV300V, V300V
Serial No	None
Type of Sample Tested	Pre-Production
Supplied Power for Test	AC 120 V, 60 Hz
FCC ID	ZNFV300V
IC ID	2703C-V300V
Applicant	LG Electronics MobileComm USA, Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632
Manufacturer	LG Electronics MobileComm USA, Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632

Related Submittal(s) / Grant(s)
Original submittal only.

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2014 CAN/CSA CISPR 22-10	C
Radiated Disturbance	ANSI C63.4:2014 CAN/CSA CISPR 22-10	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (YYYY-MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	2017-08-18	24	55
Radiated Disturbance	2017-08-17	27	49

4.3 Test result Summary

(1) Conducted Emission

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.19372	N	36.66	Average	53.88	17.22

(2) Radiated Emission

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
300.623	V	31.12	QP	46.00	14.88

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

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

5.2 Test Operation Mode

- EUT was connected PC by USB cable and continuously operated 'READ' & 'WRITE' & 'DELETE' function.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Back shell	FCC ID
				Connect type	Length (m)	shield	With Ferrite		
KEYBOARD	KB25	N/A	LITEON Technology	USB OUT	1.7	Shield	X	Plastic	-
MOUSE	SM-9023	58Q02855	LG	USB OUT	1.7	Shield	X	Plastic	-
LCD MONITOR	UP2414Qt	CN-0W06C2-74 445-467-013L	DELL	POWER IN DSUB OUT	1.8 1.8	Non-shield Shield	X X	Plastic Plastic	-
PC	DCNE	861Z8BX	DELL	POWER IN	1.8	Non-shield	X	Plastic	-
				DSUB IN	1.8	Shield	X	Plastic	
				PARALLEL 1 IN	2.0	Shield	X	Plastic	
				PARALLEL 2 IN	1.9	Shield	X	Plastic	
				USB IN	1.7	Shield	X	Plastic	
				USB IN	1.7	Shield	X	Plastic	
				USB IN	1.0	shield	X	Plastic	
				STEREO IN	2.0	Non-shield	X	Plastic	
HDD 3.0	IM100-10003	N/A	Imation	USB OUT	0.5	shield	X	Plastic	-
PRINTER	SRP-770	N/A	Bixolon	POWER IN	1.8	Non-shield	X	Plastic	-
				PARALLEL 1 OUT	2.0	Shield	X	Plastic	
				PARALLEL 2 OUT	1.9	Shield	X	Plastic	
Headset	COV909	N/A	COSY	STEREO OUT	2.0	Non-shield	X	Plastic	-

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4** and **CAN/CSA CISPR 22**. If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane. Connect the EUT's power source lines to the PC power through the LISN. All the other peripherals are connected to the 2nd LISN, if any. Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and CISPR Average detector. For (0.15 ~ 30) MHz frequency range, Quasi-Peak detector with 10 kHz RBW and 30 kHz VBW was used. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission. For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

- Note) 1. Emission Level = Reading Value + Correction Factor.
2. Correction Factor = Cable Loss + Insertion Loss of LISN
3. Margin = Limit - Emission level

Measurement uncertainty :

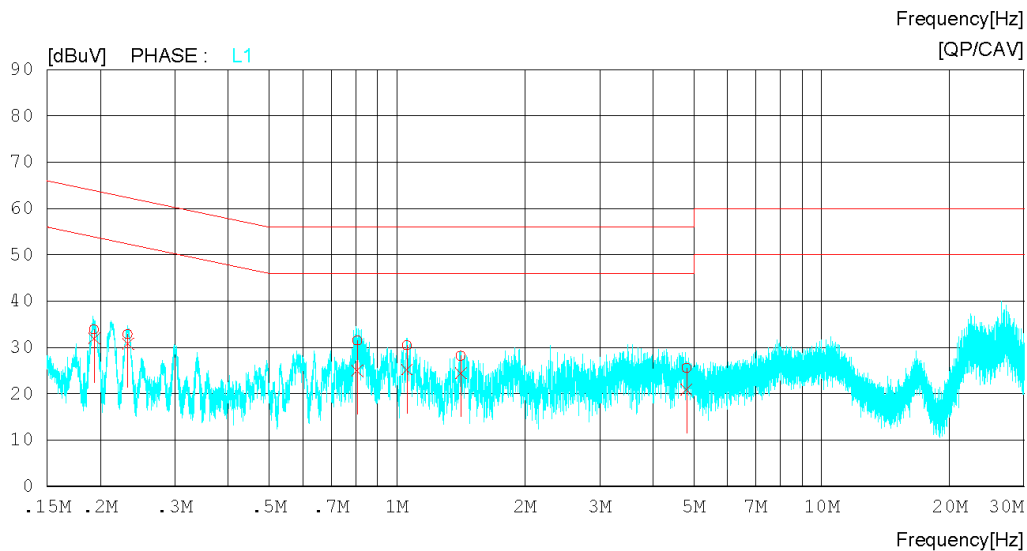
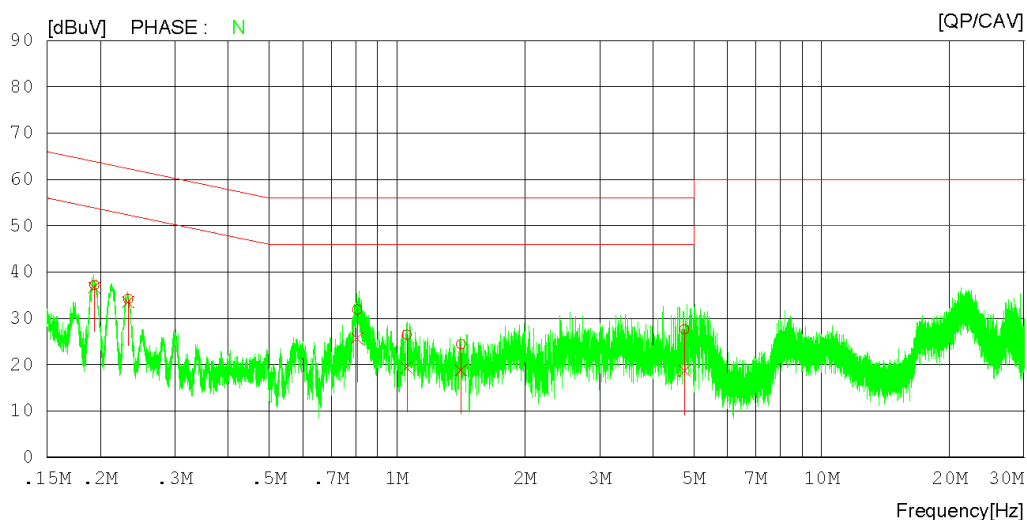
Expended uncertainty U (95 %, Confidence level, $k = 2$)	2.36 dB
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Test Result

Results of Conducted Emission

DT&C
Date 2017-08-18

Order No.	DTNC1707-05647, 05648
Power Supply	120 V 60 Hz
Temp/Humi/Atm	24 °C 55 % R.H. 99.2 kPa
Test Condition	PC LINK

LIMIT : CISPR22_B QP
CISPR22_B AV


Results of Conducted Emission

DT&C
Date 2017-08-18

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24'C 55 % R.H. 99.2 kPa
Test Condition PC LINK

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19372	34.94	34.48	2.18	37.12	36.66	63.88	53.88	26.76	17.22	N
2	0.23266	32.47	31.81	1.70	34.17	33.51	62.35	52.35	28.18	18.84	N
3	0.80585	31.52	25.27	0.46	31.98	25.73	56.00	46.00	24.02	20.27	N
4	1.05440	26.10	18.99	0.40	26.50	19.39	56.00	46.00	29.50	26.61	N
5	1.41420	24.10	18.50	0.35	24.45	18.85	56.00	46.00	31.55	27.15	N
6	4.75540	27.30	18.32	0.34	27.64	18.66	56.00	46.00	28.36	27.34	N
7	0.19354	31.64	29.72	2.21	33.85	31.93	63.88	53.88	30.03	21.95	L1
8	0.23237	31.11	29.10	1.73	32.84	30.83	62.36	52.36	29.52	21.53	L1
9	0.80550	30.88	24.54	0.49	31.37	25.03	56.00	46.00	24.63	20.97	L1
10	1.05480	30.02	24.76	0.42	30.44	25.18	56.00	46.00	25.56	20.82	L1
11	1.41340	27.77	24.11	0.38	28.15	24.49	56.00	46.00	27.85	21.51	L1
12	4.80540	25.15	20.58	0.38	25.53	20.96	56.00	46.00	30.47	25.04	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4 and CAN/CSA CISPR 22**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane. Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them. The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used. For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54
Note 1 The lower limit shall apply at the transition frequency. Note 2 Additional provisions may be required for cases where interference occurs. Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.		
Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000 MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note)1. Emission Level = Reading Value + loss - gain + Ant Factor

2. Margin = Limit - Emission level

3. (0.03 ~ 6) GHz : Loss = Cable Loss, Gain = Amp Gain, Ant Factor = Antenna Factor

4. (6 ~ 18) GHz : Loss = Cable Loss, Ant Factor = Antenna Factor - Amp Gain

Measurement uncertainty (10m Chamber) :

Expended uncertainty U (95 %, Confidence level, $k = 2$)	3.50 dB, (30 ~ 1 000) MHz 4.00 dB, (Above 1 GHz)
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Test Result

< 30 MHz ~ 1 GHz >

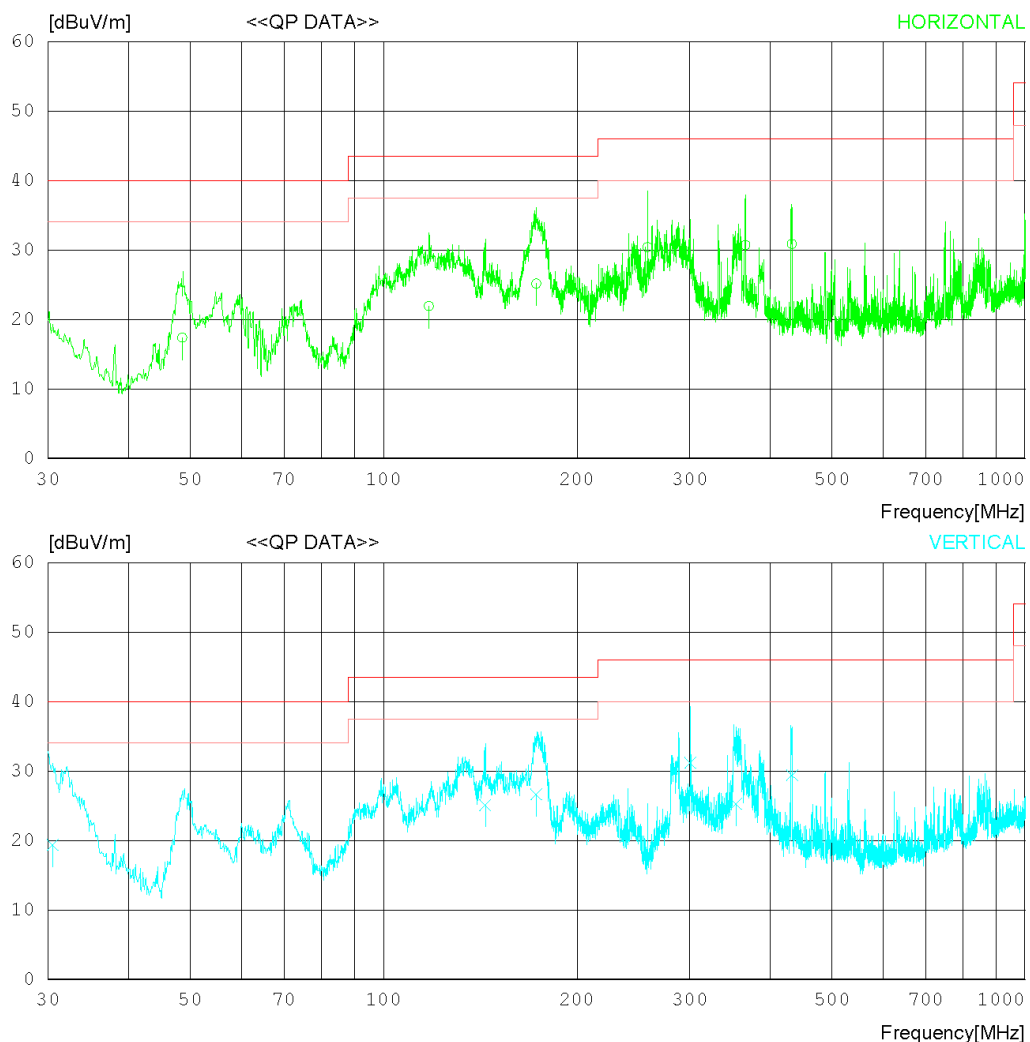
RADIATED EMISSION

Date 2017-08-17

Order No.	DTNC1707-05647, 05648
Power Supply	120 V 60 Hz
Temp/Humi	27 'C 49 % R.H.
Test Condition	PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 6 dB



RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart B Class B (3m)
MARGIN: 6 dB

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	48.617	31.40	11.76	1.01	26.84	17.33	40.00	22.67	400	232
2	117.668	35.60	11.41	1.63	26.75	21.89	43.50	21.61	300	13
3	172.932	37.40	12.37	2.02	26.67	25.12	43.50	18.38	100	255
4	257.713	42.50	11.95	2.50	26.54	30.41	46.00	15.59	100	1
5	366.378	39.10	14.96	3.09	26.47	30.68	46.00	15.32	100	80
6	433.024	37.10	16.79	3.38	26.40	30.87	46.00	15.13	200	358
----- Vertical -----										
7	30.468	36.10	9.33	0.74	26.85	19.32	40.00	20.68	100	86
8	143.962	36.90	13.04	1.83	26.69	25.08	43.50	18.42	200	197
9	172.978	38.90	12.36	2.02	26.67	26.61	43.50	16.89	300	278
10	300.623	41.50	13.41	2.75	26.54	31.12	46.00	14.88	100	358
11	354.218	34.20	14.53	3.03	26.48	25.28	46.00	20.72	400	175
12	433.010	35.60	16.79	3.38	26.40	29.37	46.00	16.63	100	23

< (1 ~ 6) GHz _ Peak >

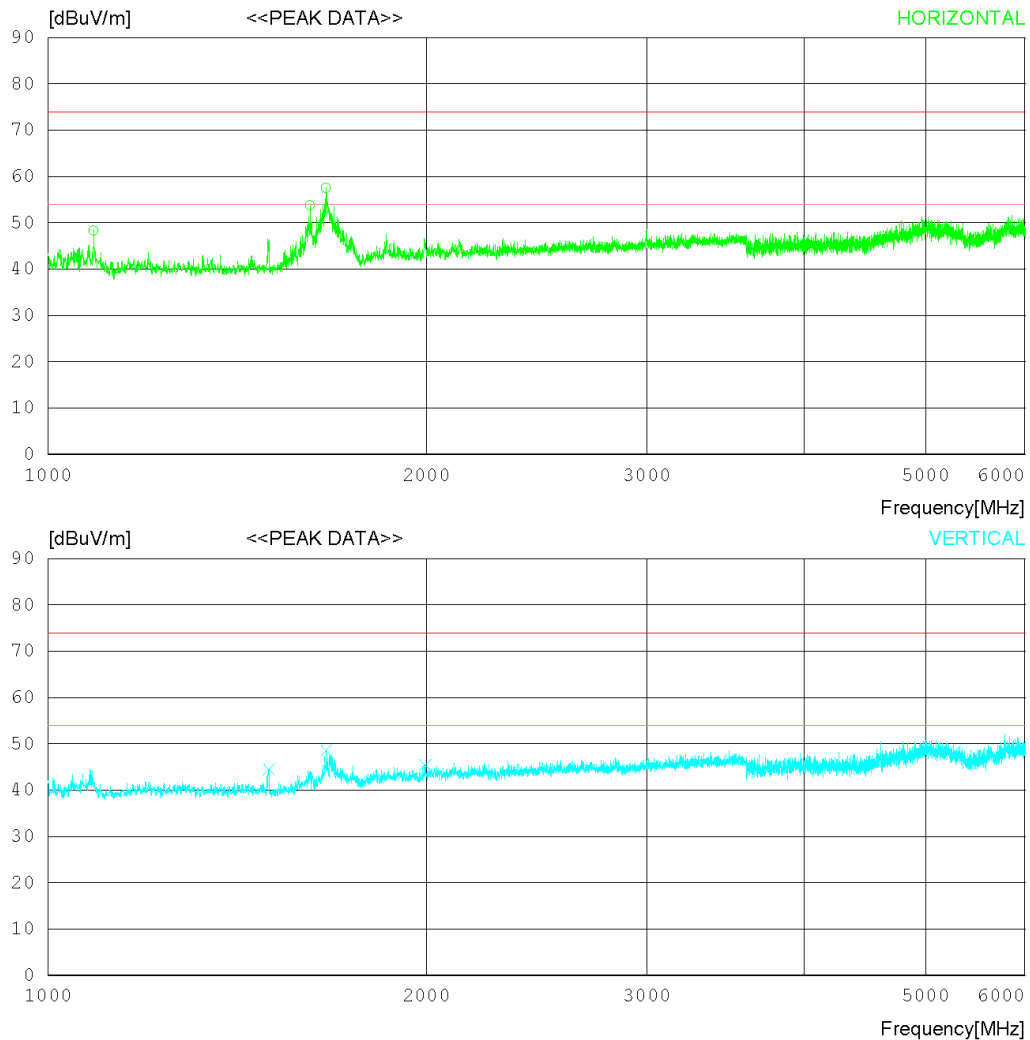
RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1086.875	57.00	27.86	3.66	40.24	48.28	74.0	25.72	100	218
2	1616.250	60.30	28.50	4.21	39.22	53.79	74.0	20.21	100	358
3	1663.750	63.60	28.78	4.31	39.17	57.52	74.0	16.48	100	200
----- Vertical -----										
4	1499.375	51.60	28.10	4.15	39.36	44.49	74.0	29.51	100	121
5	1665.000	54.60	28.79	4.32	39.17	48.54	74.0	25.46	100	1
6	1997.500	48.00	31.49	4.70	38.77	45.42	74.0	28.58	100	1

< (1 ~ 6) GHz _ Average >

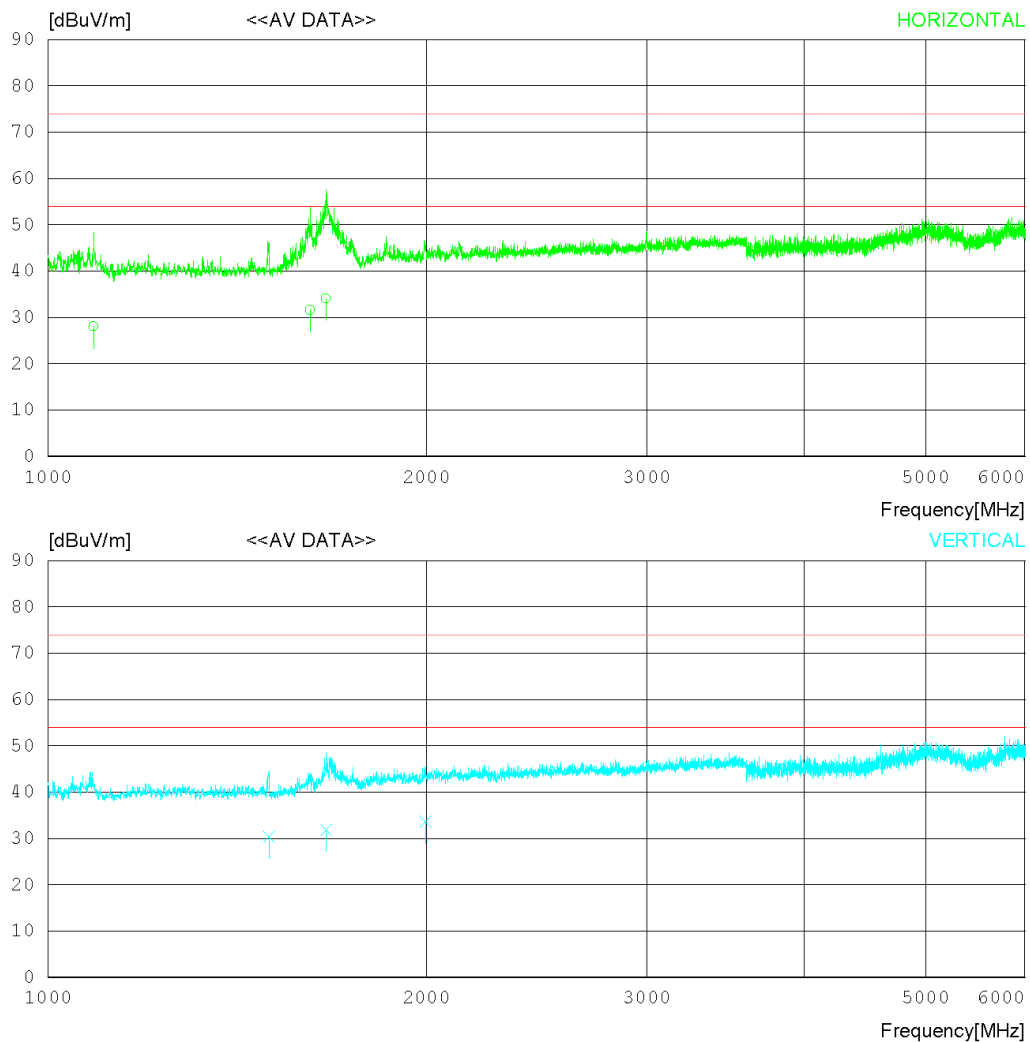
RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647, 05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1086.868	36.80	27.86	3.66	40.24	28.08	54.00	25.92	100	235
2	1616.217	38.10	28.50	4.21	39.22	31.59	54.00	22.41	100	246
3	1663.731	40.20	28.78	4.31	39.17	34.12	54.00	19.88	100	175
----- Vertical -----										
4	1499.332	37.50	28.10	4.15	39.36	30.39	54.00	23.61	100	275
5	1665.010	37.90	28.79	4.32	39.17	31.84	54.00	22.16	100	23
6	1997.549	36.20	31.49	4.70	38.77	33.62	54.00	20.38	100	12

< (6 ~ 30) GHz _ Peak >

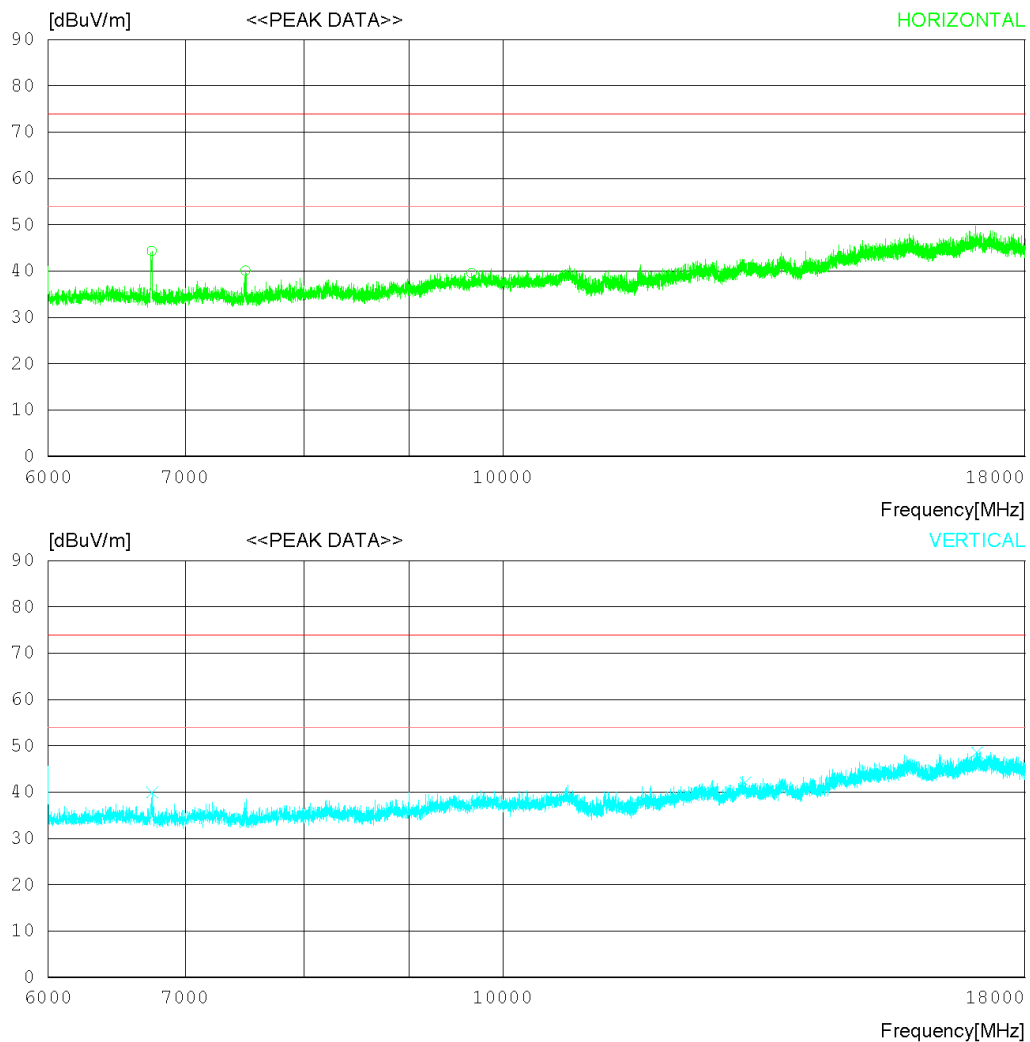
RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647,05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



* The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.

RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647,05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	6743.250	43.50	-8.44	9.28	0.00	44.34	74.0	29.66	100	205
2	7491.750	38.40	-8.02	9.72	0.00	40.10	74.0	33.9	100	205
3	9660.750	34.40	-6.47	11.68	0.00	39.61	74.0	34.39	100	200
----- Vertical -----										
4	6744.000	39.10	-8.44	9.28	0.00	39.94	74.0	34.06	100	358
5	13137.750	33.20	-4.62	13.51	0.00	42.09	74.0	31.91	100	200
6	17046.000	32.20	-0.15	16.52	0.00	48.57	74.0	25.43	100	1

< (6 ~ 30) GHz _ Average >

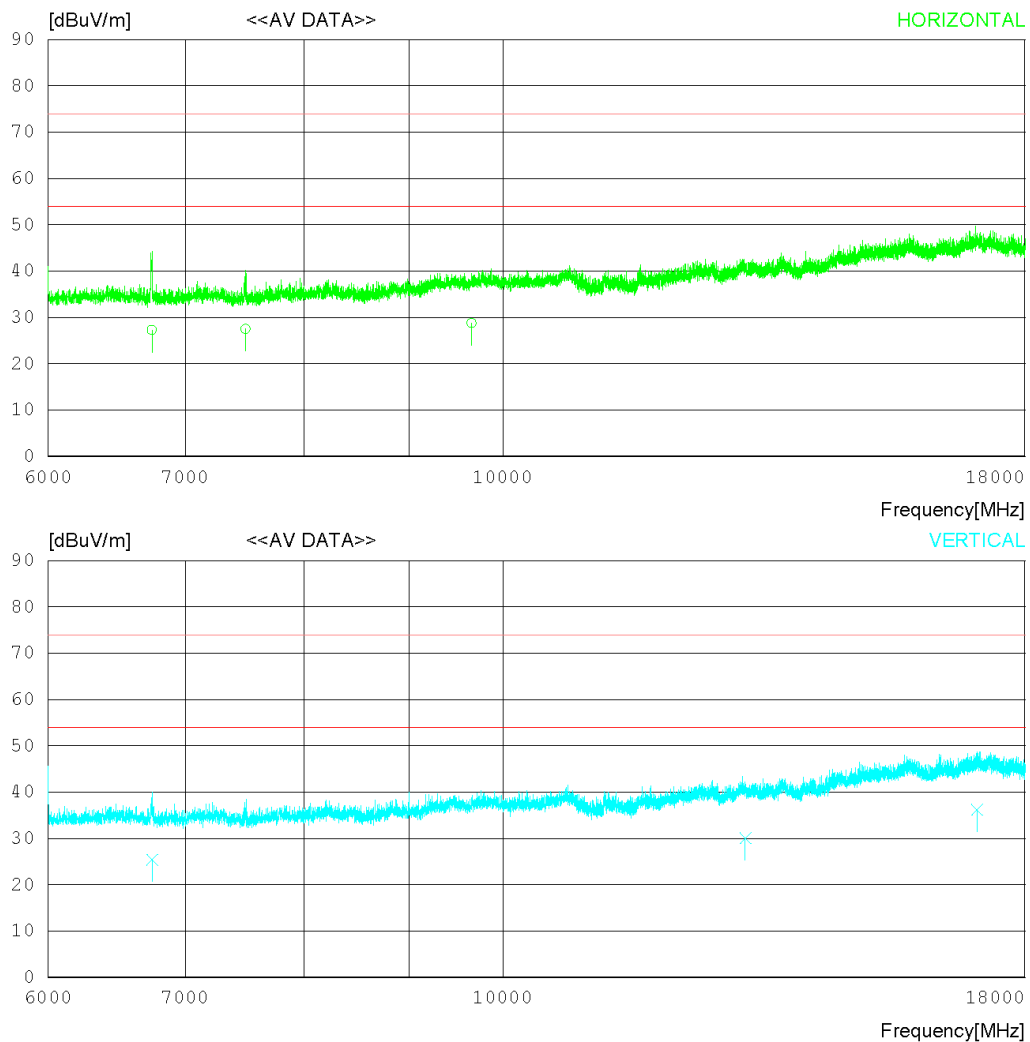
RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647,05648
Power Supply 120 V 60 Hz
Temp/Humi 27 'C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



* The measurement is performed above 18 GHz up to 30 GHz and not found emissions above 18 GHz.

RADIATED EMISSION

Date 2017-08-17

Order No. DTNC1707-05647,05648
Power Supply 120 V 60 Hz
Temp/Humi 27 °C 49 % R.H.
Test Condition PC LINK

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	6743.853	26.40	-8.44	9.28	0.00	27.24	54.00	26.76	100	176
2	7491.821	25.80	-8.02	9.72	0.00	27.50	54.00	26.50	100	175
3	9660.735	23.50	-6.47	11.68	0.00	28.71	54.00	25.29	100	55
----- Vertical -----										
4	6744.079	24.50	-8.44	9.28	0.00	25.34	54.00	28.66	100	17
5	13137.710	21.10	-4.62	13.51	0.00	29.99	54.00	24.01	100	135
6	17046.140	19.80	-0.15	16.51	0.00	36.16	54.00	17.84	100	23

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0143	TSJ	N/A	N/A	N/A
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2017.02.16	2018.02.16
☒ ARTIFICIAL MAINS NETWORK	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2016.09.08	2017.09.08
☒ LISN	LISN1600	TTI	197204	2017.06.07	2018.06.07
☒ SINGLE-PHASE MASTER	4420	NF	3049354420023	2016.09.08	2017.09.08
☒ HIGH PASS FILTER	KFL-007D	KYORITSU	8-2259-4	N/A	N/A
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2017.01.03	2018.01.03
☐ LISN (DC)	NNBM8125	SCHWARZBECK	8125-821	2016.09.08	2017.09.08
☐ LISN (DC)	NNBM8125	SCHWARZBECK	8125-1390	2016.09.08	2017.09.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0121	TSJ	N/A	N/A	N/A
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100538	2017.02.03	2018.02.03
☒ TRILOG BROADBAND TEST-ANTENNA NOTE1)	VULB9160	SCHWARZBECK	9160-3339	2017.04.21	2019.04.21
☒ LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2017.02.20	2018.02.20
☒ PRE AMPLIFIER	8449B	AGILENT	3008A01590	2017.02.20	2018.02.20
☒ HORN ANTENNA	3117	ETS-LINDGREN	00152093	2016.02.26	2018.02.26
☒ HORN ANTENNA WITH PREAMPLIFIER	EM-6969	ELECTRO-METRICS	156	2017.01.19	2018.01.19
☒ HORN ANTENNA WITH PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2017.01.19	2018.01.19
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100469	2017.07.06	2018.07.06
☒ LOW NOISE PRE AMPLIFIER	MLA-1840-J02-40	TSJ	13184	2016.10.18	2017.10.18
☒ HORN ANTENNA	SAS-574	A.H.SYSTEMS,INC	155	2015.09.03	2017.09.03

* NOTE1) Calibrated according to ANSI 63.5 : 2006 calibration.

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
2017-08-18	Reissue due to retest	MinSu Park	DaeHwa Eun