

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. : DREFCC1909-0244(1)

2. Client / Applicant

• Name : LG Electronics Inc.

• Address : 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States

3. Use of Report : Grant of Certification

4. Product Name / Model Name / FCC ID : Mobile Phone / KA1935 / ZNFKA1935

5. Test Standard : ANSI C63.4:2014
FCC Part 15 Subpart B
(Class B personal computers and peripherals)

6. Date of Test : Aug. 07. 2019

7. Testing Environment : Temperature (21 ~ 23) °C , Humidity (48 ~ 52) % R.H.

8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Reviewed by
	Name : YongKi Kim 	Name : HyungJun Kim 

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. This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

Sep. 18. 2019

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.dtnet.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	Remark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23rd,Oct,2018	-
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-3 5740A-4	Registered
	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 089112 0006 Rev.00	ISO/IEC 17025
	Russia	RMRS	17.10189.296	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

Applicant	LG Electronics Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Manufacturer	LG Electronics Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Factory	LG Electronics Inc. 1000 Sylvan Avenue, Englewood Cliffs NJ 07632 United States		
Product Name	Mobile Phone		
Model Name	KA1935		
Add Model Name	None		
Add Model Difference	None		
FCC ID	ZNFKA1935		
RF Module Name	None		
Rated Power	DC 3.87 V		
Remarks	1. Earphone		
	Model	P/N	Manufacturer
	EMB-LGE53STKKB	EAB63728241	Cresyn
	2. USB Cable		
	Model	P/N	Manufacturer
	DC1701	EAD63849235	-

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

4. EUT Operations and Test Configurations

4.1 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. For each testing mode different configurations were used, Refer to the individual tests.

4.2 EUT Operation Mode

No.	Mode	Description
1	PC Link	The EUT is reading, writing, and erasing internal storage

4.3 Test Configuration Mode

No.	Mode	Description
1	PC Link	EUT was connected PC by USB cable and continuously operated

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	LCD Monitor	DELL	UP2414Qt	CN-OJJRX2-74261-67B-4P4U-A00
AE	PC	DELL	GX620 DCNE	N/A
AE	Mouse	LG	MS26	78B00309
AE	SSD 3.0	SAMSUNG	MU-PT250B	S2WKNAAH32059X
AE	Printer	Bixolon	SRP-770	N/A
AE	Keyboard	LG	KBW211	7AD02348
AE	Headset	COSY	COV903	N/A
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

Name	Type*	Cable Max. >3m	Cable Shielded	Cable Back shell	Remarks
USB	I/O	1.7	Shield	Plastic	Keyboard
USB	I/O	1.7	Shield	Plastic	Mouse
Power In	AC	1.8	Non Shield	Plastic	LCD Monitor
D-Sub	I/O	1.8	Shield	Plastic	LCD Monitor
Power In	AC	1.8	Non Shield	Plastic	PC
D-Sub Parallel Serial Stereo/Mic USB USB USB USB	I/O	1.8 2.0 1.9 2.5 1.7 1.7 1.5 1.1	Shield Shield Shield Non Shield Shield Shield Shield Shield	Plastic	PC
USB	I/O	1.5	Shield	Plastic	SSD 3.0
Parallel Serial	I/O	2.0 1.9	Shield	Plastic	Printer
Stereo/Mic	I/O	2.5	Non Shield	Plastic	Headset
Stereo	I/O	1.8	Non Shield	Plastic	EUT
USB	I/O	1.1	Non Shield	Plastic	EUT
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

4.6 Test Voltage and Frequency

Case	Voltage (V)	Frequency (DC/AC-Hz)	Phases	Remarks
1	AC 120	60	Single	None

5. Test Summary

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

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.19764	N	50.81	CAV	53.71	2.90

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]
762.708	H	40.94	QP	46.00	5.06

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2019-08-07	23	52	-
Radiated Disturbance	2019-08-07	21	48	

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4	Mains terminal disturbance voltage		Result
<u>Method:</u> The AMN placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. 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.			Comply
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point	
	150 kHz to 30 MHz	Mains	
EUT mode (Refer to clauses 4)	Test configuration mode	1	
	EUT Operation mode	1	
Limits – Class A			
Frequency (MHz)	Limit dBµV		
	Quasi-Peak	Average	
0.15 to 0.50	79	66	
0.50 to 30	73	60	
Limits – Class B			
Frequency (MHz)	Limit dBµV		
	Quasi-Peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESCI7	ROHDE & SCHWARZ	100910	2019.01.30	2020.01.30
LISN	NNLK 8121	SCHWARZBECK	06183	2019.03.19	2020.03.19
LISN	KNW-407	KYORITSU	8-317-8	2018.12.19	2019.12.19
PULSE LIMITER	ESH3-Z2	ROHDE & SCHWARZ	101333	2018.09.27	2019.09.27
50 OHM TERMINATOR	CT-01	TME	N/A	2018.12.19	2019.12.19

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

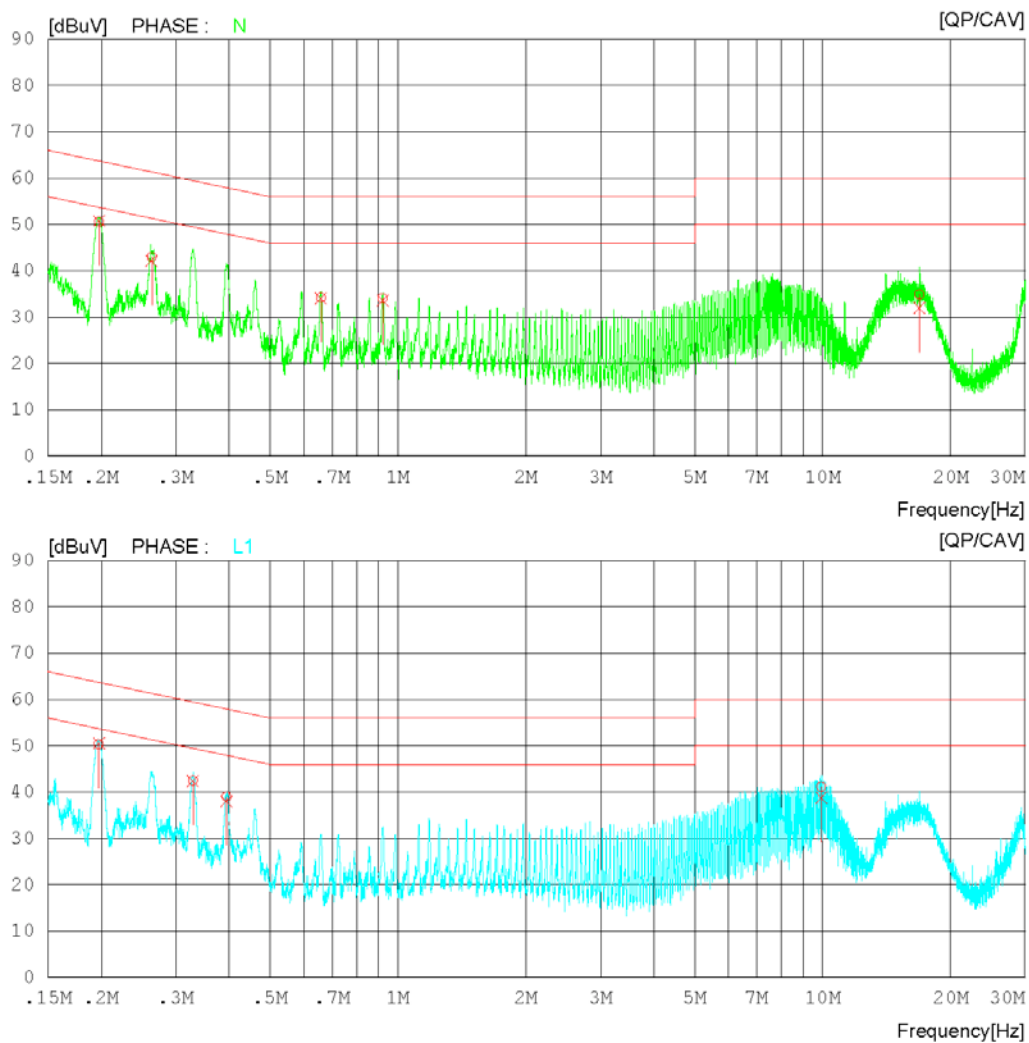
Results of Conducted Emission

DTNC

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 52 % R.H.
Test Condition

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DTNC

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 52 % R.H.
Test Codition

LIMIT : CISPR32_B QP
CISPR32_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	0.19764	40.66	40.87	9.94	50.60	50.81	63.71	53.71	13.11	2.90	N
2	0.26316	33.03	32.19	9.94	42.97	42.13	61.33	51.33	18.36	9.20	N
3	0.65817	24.22	24.10	9.97	34.19	34.07	56.00	46.00	21.81	11.93	N
4	0.92118	24.15	23.62	9.97	34.12	33.59	56.00	46.00	21.88	12.41	N
5	16.89380	24.34	21.43	10.51	34.85	31.94	60.00	50.00	25.15	18.06	N
6	0.19747	40.40	40.59	9.94	50.34	50.53	63.72	53.72	13.38	3.19	L1
7	0.32888	32.55	32.48	9.94	42.49	42.42	59.48	49.48	16.99	7.06	L1
8	0.39473	29.02	28.02	9.95	38.97	37.97	57.96	47.96	18.99	9.99	L1
9	9.93180	30.78	28.44	10.34	41.12	38.78	60.00	50.00	18.88	11.22	L1

Calculation

N : Neutral phase, L1 : Live phase
C.FACTOR(dB) : Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)
Result(dBuV) : Reading Value(dBuV) + C.FACTOR(dB)
Margin(dB) : Limit(dBuV) - Result(dBuV)

7.2 Radiated Disturbance

ANSI C63.4		Radiated disturbance 30 MHz – 18 GHz		Result
Method: Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. 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.				Comply
EUT mode (Refer to clauses 4)	Test configuration mode		1	
	EUT Operation mode		1	
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (3 m distance)	
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	
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)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (10 m distance)	
30 to 230	40		30	
230 to 1 000	47		37	
Radiated Disturbance for above 1 000 MHz at a measurement distance of 3 m				
Frequency range (GHz)	Peak limit dBµV/m		Average limit dBµV/m	
	Class A	Class B	Class A	Class B
1 to 40	80	74	60	54
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	

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	100525	2018.12.18	2019.12.18
TRILOG BROADBAND TEST-ANTENNA WITH 6DB ATT	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
	8491B	HP	18403	2018.10.22	2020.10.22
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2019.02.18	2020.02.18
PREAMPLIFIER	8449B	H.P	3008A00887	2018.08.31	2019.08.31
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26
HORN ANTENNA	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2019.01.02	2020.01.02
HORN ANTENNA	3116C	ETS-LINDGREN	00213177	2017.12.05	2019.12.05
PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2018.11.09	2019.11.09
(NOTE : THE MEASUREMENT ANTENNAS WERE CALIBRATED IN ACCORDANCE TO THE REQUIREMENTS OF C63.5-2017.)					

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

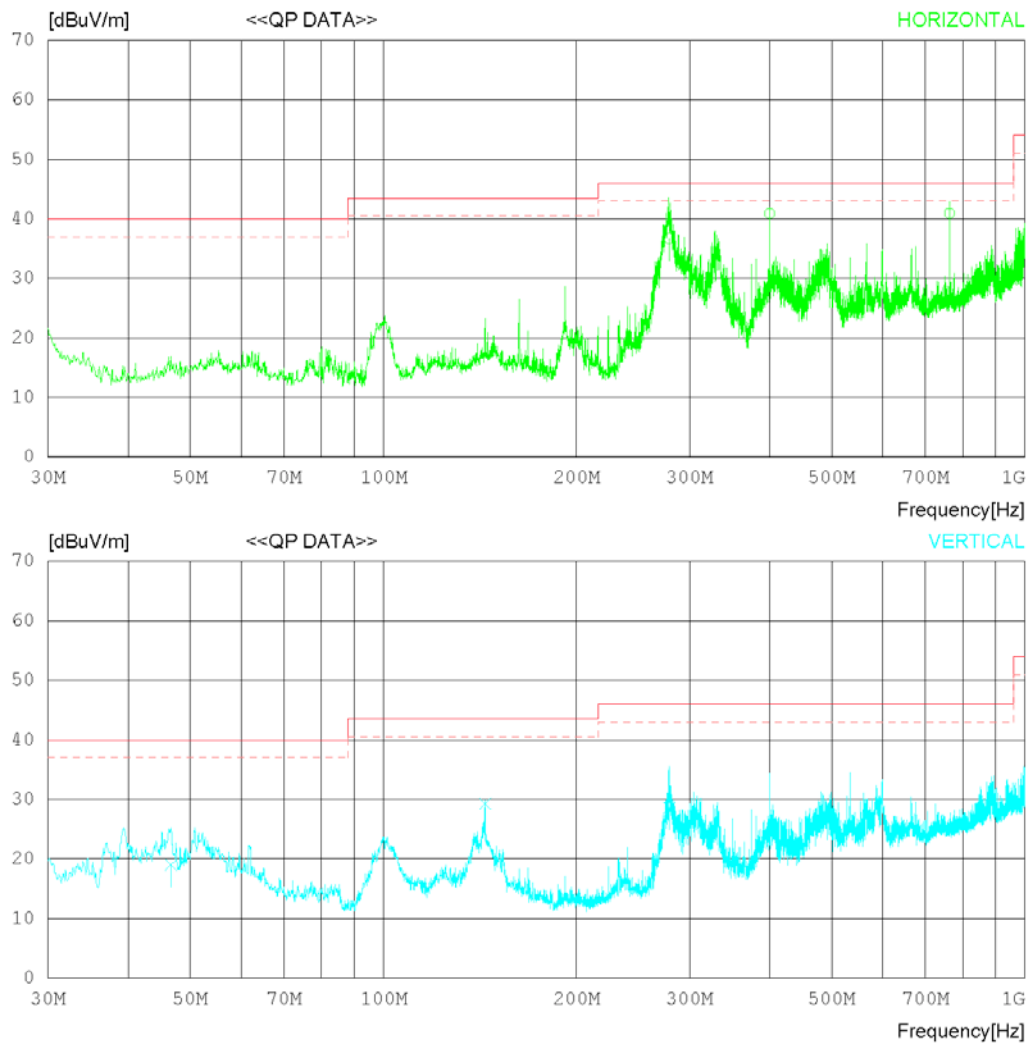
RADIATED EMISSION

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 48 % R.H.
Test Condition

Memo

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



RADIATED EMISSION

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 48 % R.H.
Test Condition

Memo

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

No.	FREQ [MHz]	READING QF [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	278.568	41.21	19.13	2.18	25.80	36.72	46.00	9.28	100	193
2	399.992	42.72	21.50	2.53	25.84	40.91	46.00	5.09	227	321
3	762.708	34.96	28.35	3.43	25.80	40.94	46.00	5.06	205	0
----- Vertical -----										
4	46.665	25.68	17.90	1.25	25.80	19.03	40.00	20.97	115	0
5	143.998	34.49	18.78	1.71	25.67	29.31	43.50	14.19	101	351
6	278.726	33.08	19.14	2.18	25.80	28.60	46.00	17.40	222	193

Radiated disturbance at (1 ~ 6) GHz _Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

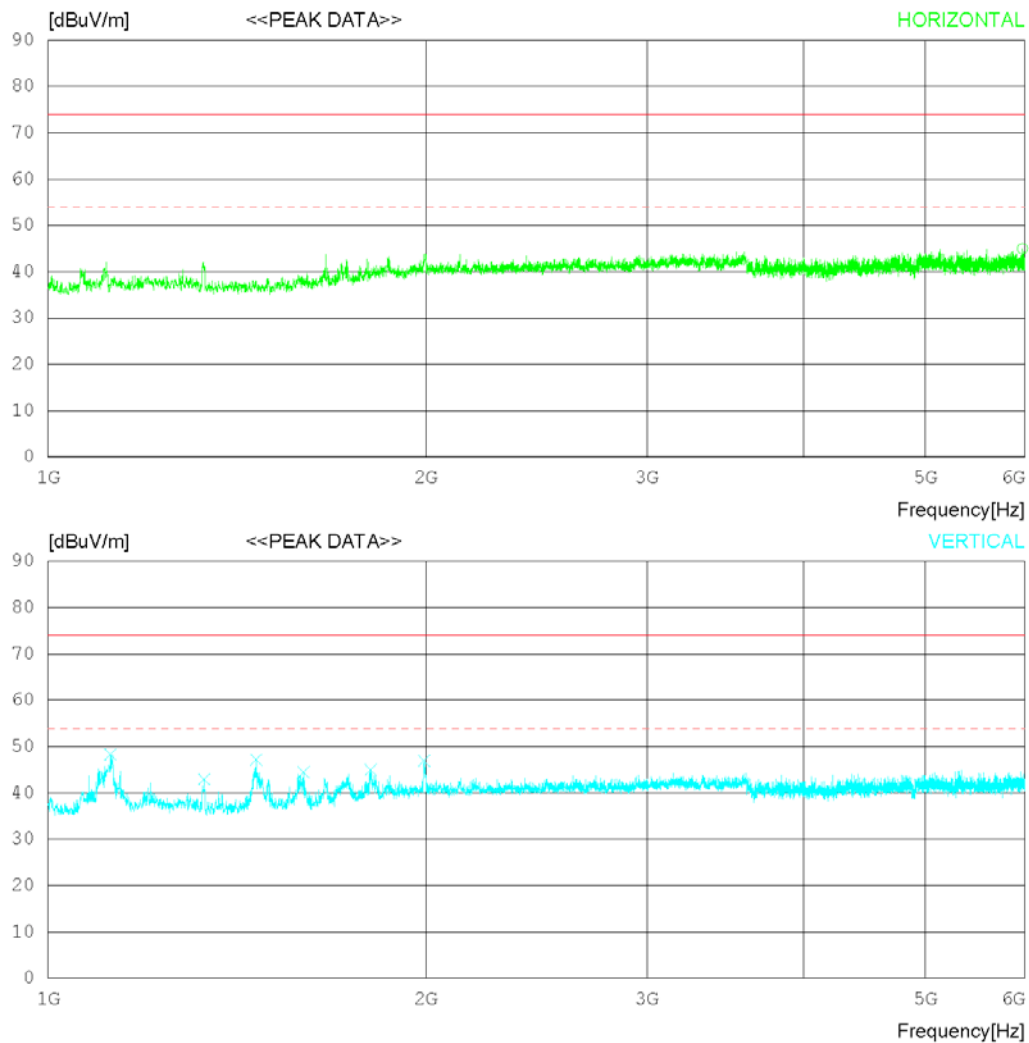
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Power Supply 120 V 60 Hz
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Test Condition

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



RADIATED EMISSION

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Temp/Humi 21 °C 48 % R.H.
Test Condition

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

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	5973.750	41.00	35.10	3.63	34.76	44.97	74.0	29.03	262	53
----- Vertical -----										
2	1121.250	54.40	28.04	1.60	35.73	48.31	74.0	25.69	138	0
3	1331.250	48.40	28.30	1.74	35.51	42.93	74.0	31.07	105	232
4	1465.000	52.80	27.90	1.81	35.37	47.14	74.0	26.86	173	0
5	1598.125	49.50	28.39	1.87	35.23	44.53	74.0	29.47	111	292
6	1808.125	47.60	30.43	2.02	35.02	45.03	74.0	28.97	197	167
7	1993.750	48.00	31.59	2.14	34.83	46.90	74.0	27.1	105	227

Radiated disturbance at (1 ~ 6) GHz _Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

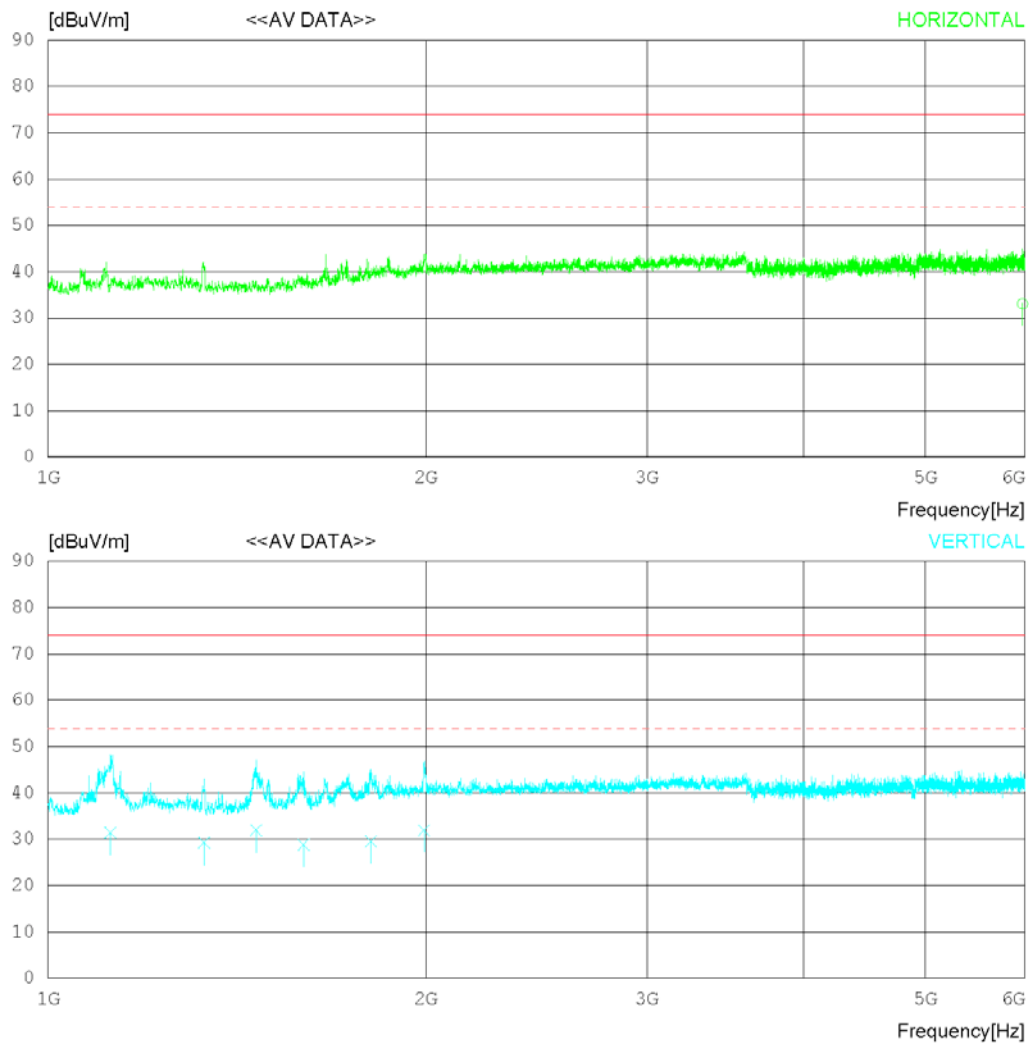
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Power Supply 120 V 60 Hz
Temp/Humi 21 'C 48 % R.H.
Test Condition

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



RADIATED EMISSION

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 48 % R.H.
Test Condition

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(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	5973.060	29.13	35.10	3.63	34.76	33.10	54.00	20.90	299	360
----- Vertical -----										
2	1121.049	37.49	28.04	1.60	35.73	31.40	54.00	22.60	146	150
3	1331.201	34.71	28.30	1.74	35.51	29.24	54.00	24.76	110	360
4	1465.178	37.62	27.90	1.81	35.37	31.96	54.00	22.04	193	162
5	1598.204	33.82	28.39	1.87	35.23	28.85	54.00	25.15	121	285
6	1808.125	32.11	30.43	2.02	35.02	29.54	54.00	24.46	224	179
7	1993.329	33.10	31.59	2.14	34.83	32.00	54.00	22.00	107	308

Radiated disturbance at (6 ~ 18) GHz _Peak Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

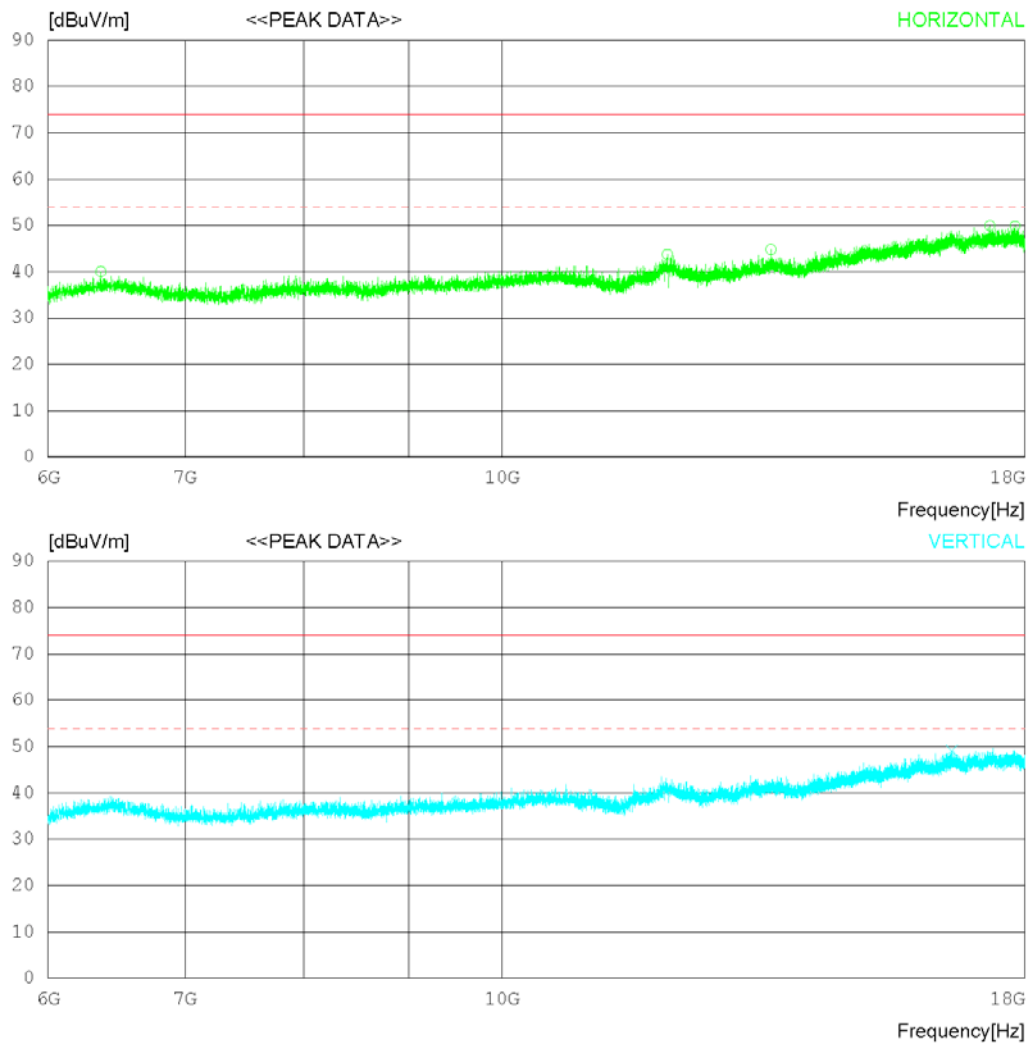
RADIATED EMISSION

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 48 % R.H.
Test Condition

Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Peak)
FCC Part15 Subpart.B Class B (3m) - GHz(Average)



* Note : The measurement is performed above 18 GHz up to 40 GHz and not found emissions above 18 GHz.

RADIATED EMISSION

Date 2019-08-07

Order No. DTNC1907-06220
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 48 % R.H.
Test Condition

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Peak)
FCC Part15 Subpart B Class B (3m) - GHz(Average)

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	6366.750	36.00	31.62	11.12	38.69	40.05	74.0	33.95	199	0
2	12039.750	32.40	33.46	15.65	37.73	43.78	74.0	30.22	243	352
3	13528.500	31.70	33.74	17.12	37.76	44.80	74.0	29.2	351	105
4	17301.000	30.20	37.78	19.48	37.51	49.95	74.0	24.05	174	358
5	17802.000	30.10	38.17	19.70	38.10	49.87	74.0	24.13	226	0
----- Vertical -----										
6	16583.250	28.90	37.08	20.01	36.88	49.11	74.0	24.89	112	15

Radiated disturbance at (6 ~18) GHz _Average Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	AC 120	Test Frequency (Hz)	60

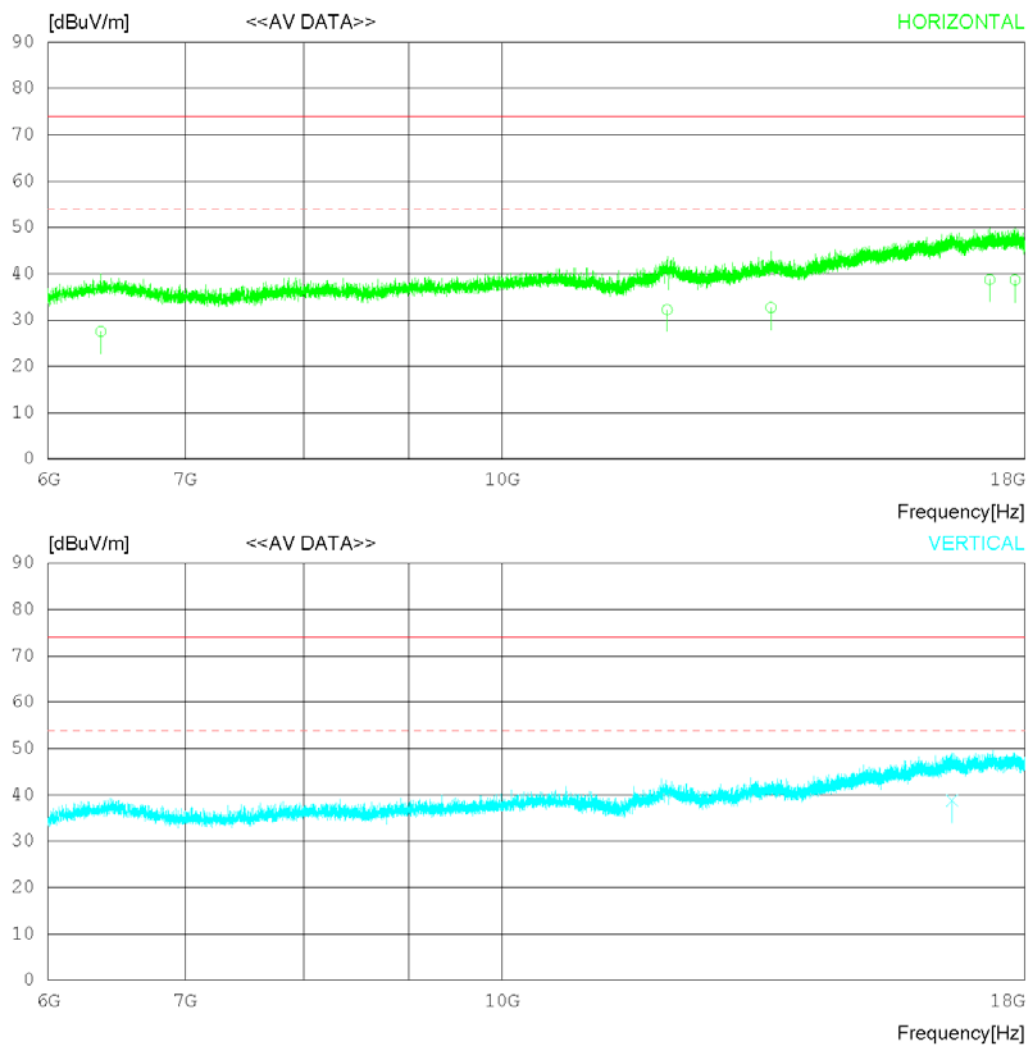
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Power Supply 120 V 60 Hz
Temp/Humi 21 'C 48 % R.H.
Test Condition

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LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(Peak)



* Note : The measurement is performed above 18 GHz up to 40 GHz and not found emissions above 18 GHz.

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Memo

LIMIT : FCC Part15 Subpart.B Class B (3m) - GHz(Average)
FCC Part15 Subpart.B Class B (3m) - GHz(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	6366.486	23.46	31.62	11.11	38.70	27.49	54.00	26.51	207	205
2	12038.770	20.85	33.46	15.66	37.73	32.24	54.00	21.76	354	0
3	13528.000	19.61	33.74	17.12	37.76	32.71	54.00	21.29	381	94
4	17301.090	18.98	37.78	19.48	37.51	38.73	54.00	15.27	210	358
5	17801.820	18.90	38.17	19.70	38.10	38.67	54.00	15.33	308	0
----- Vertical -----										
6	16583.180	18.55	37.08	20.01	36.88	38.76	54.00	15.24	127	124

Calculation

Result(dBuV/m) : 30 ~ 1G : Reading Value(dBuV) + Cable loss(dB) - Pre amplifier gain(dB) + Ant. Factor(dB)
1 ~ 6 G : Ant. Factor = Ant. Factor - Pre amplifier gain
Margin(dB) : Limit(dBuV/m) - Result(dBuV/m)

8. Revision History

Date	Description	Revised By	Reviewed By
Sep. 06. 2019	Initial report	YongKi Kim	HyungJun Kim
Sep. 18. 2019	Add Note - Radiated disturbance at (6 ~18) GHz	YongKi Kim	HyungJun Kim

-End of test report-