# **TEST REPORT**

# **Dt&C**

# 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

			ei : 031-321-2004, Fax : 031-321-10	304				
1. Report	t No. : DREFCC1808	-0246						
2. Client	/ Applicant							
• Nam	e : LG Electronics USA, Ir	IC.						
• Addr	ess : 1000 Sylvan Ave. Er	glewood Cliffs, N	ew Jersey, United States 076	32				
3. Use of	Report : Grant of Certifica	tion						
4. Produc	t Name / Model Name : M	obile phone / SS1	1805					
5. Test S	tandard : ANSI C 63.4	: 2014						
	FCC Part 15							
	(Class B per	sonal computers a	and peripherals)					
6. Date of	f Test : Jul. 25. 2018 ~ Jul.	26. 2018						
7. Testing	g Environment : Temperatu	ıre (22 ~ 25) °C ,	Humidity (47 ~ 57) % R.H.					
8. Test Re	esult : Refer to the attache	d Test Result						
	Tested by		Reviewed by					
Affirmation	Name : YongKi Kim	Attage)	Name : HyungJun Kim	(Storature)				
The tes	st results presented in this tes	st report are limited	only to the sample supplied by a	pplicant and				
			d other than its purpose.					
This test re	eport shall not be reproduced	except in full, witho	out the written approval of DT&C	Co., Ltd.				
Aug. 07. 2018								
		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	Remark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Accreditation	South Africa	SABS	0006	ISO/IEC 17025
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-3 5740A-4	Registered
Site Filing	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, R-4496 T-1442, G-10338, G-754, G-10815	Registered
	Korea	КС	KR0034	Designation
Certification	Germany	TUV	CARAT 17 11 89112 005	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 USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Factory	LG Electronics USA, Inc. 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Product Name	Mobile phone
Model Name	SS1805
Add Model Name	None
FCC ID	ZNFSS1805
Rated Power	DC 3.85 V
Remarks	None

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

### 4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks			
AE	KEYBOARD	DELL	KB212-B	DOC			
AE	MOUSE	LG	SM-9023	DOC			
AE	LCD MONITOR	DELL	UP2414Qt	DOC			
AE	PC	DELL	DCNE	DOC			
AE	SSD 3.0	SAMSUNG	MU-PT250B	DOC			
AE	PRINTER	Bixolon	SRP-770	DOC			
AE	Headset	SAMSUNG	SHS-150V/M	DOC			
*Abbrev	*Abbreviations:						

AE - Auxiliary/Associated Equipment, or

SIM - Simulator

# 4.5 EUT In/Output Port

Neme	Turne *	Cable	Cable	Cable	Demerika
Name	Type*	Max. >3 m	Shielded	Back shell	Remarks
USB OUT	I/O	1.7	Shield	Plastic	KEYBOARD
USB OUT	I/O	1.7	Shield	Plastic	MOUSE
POWER IN	AC	1.8	Non Shield	Plastic	
DSUB OUT	I/O	1.8	Shield	Plastic	LCD MONITOR
POWER IN	AC	1.8	Non Shield	Plastic	
DSUB IN	I/O	1.8	Shield	Plastic	-
PARALLEL IN	I/O	2.0	Shield	Plastic	-
SERIAL IN	I/O	1.9	Shield	Plastic	50
USB IN	I/O	1.7	Shield	Plastic	PC
USB IN	I/O	1.7	Shield	Plastic	
USB IN	I/O	1.0	Shield	Plastic	
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic	
USB OUT	I/O	1.0	Shield	Plastic	SSD 3.0
POWER IN	DC	1.8	Non Shield	Plastic	
PARALLEL OUT	I/O	2.0	Shield	Plastic	PRINTER
SERIAL OUT	I/O	1.9	Shield	Plastic	-
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic	Headset
AUX	I/O	1.8	Non Shield	Plastic	EUT
USB IN	DC	1.6	Non Shield	Plastic	EUT
*Abbreviations: AC = AC Power Port I/O = Signal Input or TP = Telecommunic	Output Port	DC = DC Power	Port	N/E = Non-Electri	ical

# 4.6 Test Voltage and Frequency

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

# 5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	С
Radiated Disturbance	ANSI C63.4 : 2014	С
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.

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dBµV]	Detector	Limit [dBµV]	Margin [dB]
0.20435	L1	39.86	CAV	53.43	13.57

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
749.354	V	42.04	QP	46.00	3.96

# 6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)	
Conducted Disturbance	2018-07-26	22	47		
Radiated Disturbance	2018-07-25 2018-07-25	25 25	56 57	-	

# 7. Test Results : Emission

## 7.1 Conducted Disturbance

ANSI C63.4	Ma	Mains terminal disturbance voltage						
reference other uni power wa voltage n port of th test softw frequence performir CISPR A kHz RBW	Plane. This distance w ts of the EUT and assume as connected to the syneasurements on mains the LISN for EUT was cover y range, suspected eming final measurement, to verage detector. For (0. V and 30 kHz VBW was	he boundary of the unit under test and as between the closest points of the Al ociated equipment were at least 0,8 n ystem through Artificial Mains Network lines were made at the output of the A onnected to spectrum analyzer. Using e scanned with peak detector mode. Aft ssions were selected to perform final r he receiver was used which has Quas 15 ~ 30) MHz frequency range, Quasi-F is used. By varying the configuration of d to maximize the emission.	IN and the EUT. All from the AMN. All (AMN). Conducted MN. The measuring conducted emission er scanning over the neasurement. When i-Peak detector and eak detector with 10	Comply				
Fully configured sample scanned ov Frequency range on each side of line				rement Point				
er the following	ng frequency range	150 kHz to 30 MHz		Mains				
EU	IT mode	Test configuration mode		1				
(Refer	to clauses 4)	EUT Operation mode		1				
		Limits – Class A						
Frequency (MHz		Limit dBµV						
i i equeilo y (iii ii	-/	Quasi-Peak	Averag	e				
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 uncertainty
-------------------------

Expended uncertainty U	2.36 dB	
(95 %, Confidence level, $k = 2$ )	2.00 dB	

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	ESR7	ROHDE& SCHWARZ	101109	2017.11.16	2018.11.16				
TWO-LINE V-NETWORK	ENV216	ROHDE& SCHWARZ	101979	2017.12.18	2018.12.18				
LISN	LISN1600	TTI	197204	2018.06.07	2019.06.07				
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2017.09.07	2018.09.07				
50 OHM TERMINATOR	CT-01	TME	N/A	2017.12.26	2018.12.26				



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

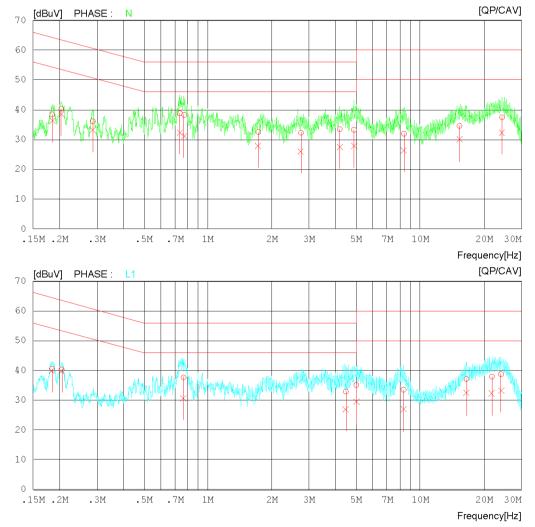
## **Results of Conducted Emission**

Date 2018-07-26



Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1807-05330 120 VAC 60 Hz 22 'C 47 % R.H.







## Results of Conducted Emission

Date 2018-07-26

DT&C

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1807-05330 120 VAC 60 Hz 22 'C 47 % R.H.

#### LIMIT : CISPR22\_B QP CISPR22\_B AV

NO	~			RESULT QP CAV [dBuV] [dBuV]	QP	CAV	QP CAV	PHASE
1	0.18476	18.45 16.46	19.99	38.44 36.45	64.27	54.27	25.83 17.82	N
2	0.20425	20.36 18.63	20.02	40.38 38.65	63.44	53.44	23.06 14.79	N
3	0.28697	16.27 13.28	19.91	36.18 33.19	60.61	50.61	24.43 17.42	Ν
4	0.73752	18.75 12.19	20.11	38.86 32.30	56.00	46.00	17.14 13.70	N
5	0.77350	18.20 11.15	20.08	38.28 31.23	56.00	46.00	17.72 14.77	Ν
6	1.72906	12.56 7.90	19.97	32.53 27.87	56.00	46.00	23.47 18.13	N
7	2.74878	12.24 5.98	20.05	32.29 26.03	56.00	46.00	23.71 19.97	Ν
8	4.18045	13.32 7.34	20.16	33.48 27.50	56.00	46.00	22.52 18.50	Ν
9	4.87789	13.11 7.71	20.20	33.31 27.91	56.00	46.00	22.69 18.09	N
10	8.39908	11.33 5.89	20.62	31.95 26.51	60.00	50.00	28.05 23.49	N
11	15.32454	13.45 8.77	21.17	34.62 29.94	60.00	50.00	25.38 20.06	Ν
12	24.29676	16.77 11.62	20.74	37.51 32.36	60.00	50.00	22.49 17.64	Ν
13	0.18450	20.49 19.96	20.04	40.53 40.00	64.28	54.28	23.75 14.28	L1
14	0.20435	20.25 19.84	20.02	40.27 39.86	63.43	53.43	23.16 13.57	L1
15	0.76850	17.44 10.47	20.18	37.62 30.65	56.00	46.00	18.38 15.35	L1
16	4.46734	12.61 6.72	20.27	32.88 26.99	56.00	46.00	23.12 19.01	L1
17	5.00282	14.79 9.09	20.31	35.10 29.40	60.00	50.00	24.90 20.60	L1
18	8.35489	12.79 6.11	20.71	33.50 26.82	60.00	50.00	26.50 23.18	L1
19	16.50818	15.94 11.18	21.16	37.10 32.34	60.00	50.00	22.90 17.66	L1
20	21.77745	16.92 11.32	20.95	37.87 32.27	60.00	50.00	22.13 17.73	L1
21	24.03786	17.95 12.51	20.77	38.72 33.28	60.00	50.00	21.28 16.72	L1

#### Calculation

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

## 7.2 Radiated Disturbance

ANSI C63.4		Radiated disturbance 30 MHz –18 GHz						
meter b receive were the m. All fr applicat 120 kHz	nary (peak) measurer elow 1GHz and 3 met antenna located at va en performed by rotat equencies were inves ole. For final measure z Bandwidth) was use BW = 1 MHz Bandwid	ter above 1GHz. The rrious heights in horiz ing the EUT 360° and tigated in both horizo ment below 1 GHz fre d. For final measuren	EUT was rot ontal and ve I adjusting th ntal and vert equency rang nent above 1	ated 360° a rtical polarit e receive a ical antenna ge, Quasi-P GHz frequ	bout its azimuth wies. Final measured ntenna height from a polarity, where eak detector with (l ency range, Peak of	ith the ments 1 to 4 RBW = detector	Comply	
EU	T mode	Test configu	ration mod	e		1		
(Refer t	o clauses 4)	EUT Opera	tion mode			1		
		Radiated Disturb	ance below	1 000 MHz	:			
Freque	ency range		Qua	si-peak lin	nit dBµV/m			
	(MHz)	Class A (10	m distance	)	Class B (3	m distan	ce)	
3	0 to 88	39	0.1		4	0		
88	8 to 216	43	.5		43	3.5		
21	6 to 960	46	.4	46				
960	to 1 000	49	.5	54				
comply with the (CISPR), Pub. 2	.109(g), as an alterna standards contained 22 shown as below.		Internationa	al Special C	ommittee on Radio			
-	ency range				hit dBµV/m			
	(MHz)	Class A (10						
	) to 230	4	-	30				
230	to 1 000	4	-	37				
		ance for above 1 00		measurem			1	
•	ency range	Peak limit	-		Average lir	•		
	(GHz)	Class A	Class	В	Class A		ass B	
1	to 40	80	74		60		54	
Highost	I he test frequency frequency generate	range of Radiated D			ents are listed be frequency of mea		t rango	
	hich the device ope			opper	(MHz)	Sureniei	it range	
Below 108				1 000				
108 – 500				2 000				
500 – 1 000 Above 1 000			5 000 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz whichever is lower					
					whichever is i	JWGI		

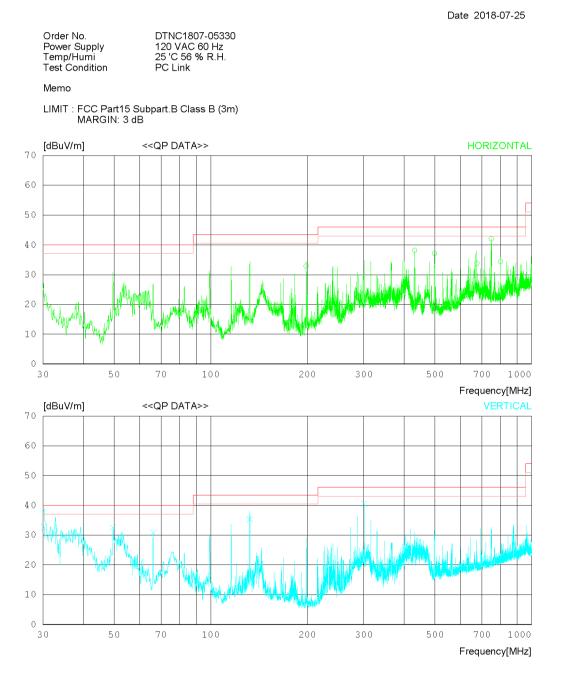
Expended uncertainty U	4.16 dB, (30 ~ 1 000) MHz
(95 %, Confidence level, $k = 2$ )	3.74 dB, (1 ~ 6) GHz



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	ESU	ROHDE & SCHWARZ	100538	2018.01.29	2019.01.29				
TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2017.04.21	2019.04.21				
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2018.02.19	2019.02.19				
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26				
HORN ANTENNA WITH PREAMPLIFIER	EM-6969/ MLA-0618-B03-34	ELECTRO-METRICS/ TSJ	156/ 1785642	2017.02.10	2019.02.10				
PREAMPLIFIER	8449B	AGILENT TECHNOLOGIES	3008A01590	2018.02.20	2019.02.20				
(NOTE : THE MEASUREM	IENT ANTENNAS WERE	CALIBRATED IN ACCOR	DANCE TO THE F	REQUIREMENTS C	OF C63.5-2017.)				



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





Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05330 120 VAC 60 Hz 25 'C 56 % R.H. PC Link

Memo

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

No	. FREQ	READING OP	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2 4 5 6	198.384 432.003 497.457 674.415 749.354 800.109	46.20 43.20 40.90 33.70 40.40 32.20	9.86 16.76 17.77 20.74 22.09 22.50	2.33 3.53 3.85 4.53 4.90 5.09	25.52 25.41 25.39 25.24 25.35 25.40	32.87 38.08 37.13 33.73 42.04 34.39	43.50 46.00 46.00 46.00 46.00 46.00	10.63 7.92 8.87 12.27 3.96 11.61	100 200 100 200 200 200	73 56 203 127 21 0
	Vertica	1								
7 8 9 10 11 12	30.244 32.701 49.600 66.141 132.269 300.685	47.90 46.20 45.10 44.10 46.80 49.70	9.35 9.21 11.86 10.97 12.28 13.41	0.84 0.86 1.10 1.31 1.86 2.84	25.47 25.48 25.51 25.52 25.57 25.48	32.62 30.79 32.55 30.86 35.37 40.47	$\begin{array}{c} 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 0 \ . \ 0 0 \\ 4 \ 3 \ . \ 5 0 \\ 4 \ 6 \ . \ 0 0 \end{array}$	7.38 9.21 7.45 9.14 8.13 5.53	300 100 100 200 200	130 127 247 236 172 350



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

Date 2018-07-25

DTNC1807-05330 120 V 60 Hz 25 'C 56 % R.H. Order No. Power Supply Temp/Humi Test Condition Memo LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak) FCC Part15 Subpart.B Class B (3m) - 18G(Avg) <<PEAK DATA>> HORIZONTAL [dBuV/m] 90 80 70 60 50 40 30 20 10 0 1000 2000 3000 5000 6000 Frequency[MHz] [dBuV/m] <<PEAK DATA>> VERTICAL 90 80 70 60 50 40 30 20 10 0 1000 2000 3000 5000 6000

Frequency[MHz]



Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05330 120 V 60 Hz 25 'C 56 % R.H.

Memo

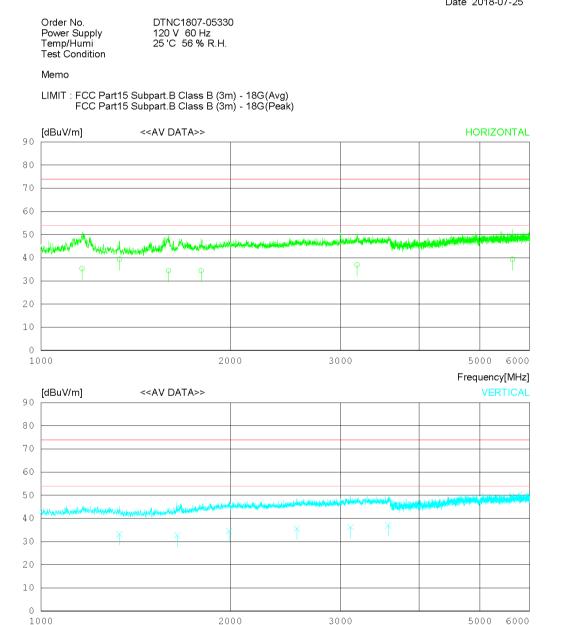
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak) FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No	. FREQ	READING PEAK	ANT FACTOF	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/n	1] [dB]	[cm]	[DEG]
	Horizont	al								
1 2 3 4 5 6	1333.12 1596.87 1797.50 3185.62	0 51.40 2 5 47.30 2 5 49.30 2 0 46.10 3 5 44.30 3 5 42.30 3	8.27 8.38 0.36 3.14	3.71 3.91 4.37 4.37 5.77 7.90	32.17 32.24 32.35 32.43 32.60 32.67	51.22 47.24 49.70 48.40 50.61 52.13		22.78 26.76 24.3 25.6 23.39 21.87	$100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 $	1 1 1 1 1
	Vertical	L								
7 8 9 10 11 12	1646.87 1991.87 2555.62 3111.87	5 45.40 2 5 46.10 2 5 43.80 3 5 43.60 3 5 43.90 3 0 42.50 3	8.87 1.58 2.51 2.92	3.91 4.37 4.72 5.16 5.79 6.29	32.24 32.37 32.52 32.55 32.59 32.63	45.34 46.97 47.58 48.72 50.02 49.33	74.0 74.0 74.0 74.0 74.0 74.0 74.0	28.66 27.03 26.42 25.28 23.98 24.67	100 100 100 100 100 100	314 146 2 358 239 273



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

Date 2018-07-25



Frequency[MHz]



Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05330 120 V 60 Hz 25 'C 56 % R.H.

Memo

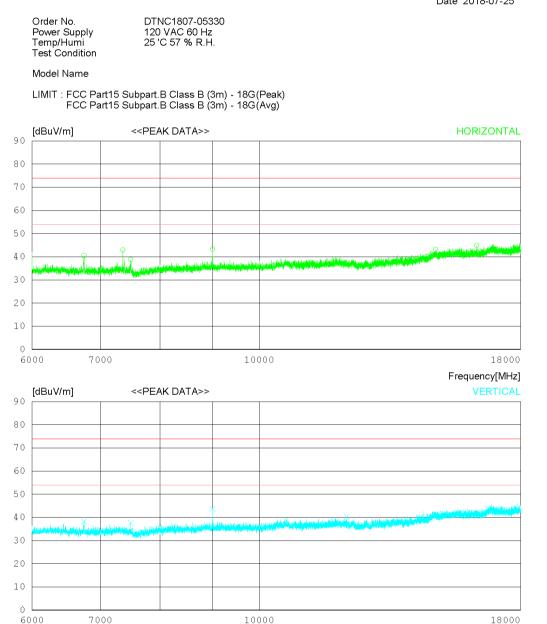
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg) FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No	. FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
1 2 3 4 5 6	1162.499 1333.322 1596.108 1798.302 3186.288 5634.651	39.40 34.00 32.10 30.60	28.27 28.27 28.38 30.37 33.15 34.60	3.71 3.91 4.37 4.37 5.77 7.90	32.17 32.24 32.35 32.44 32.60 32.67	35.31 39.34 34.40 34.40 36.92 39.33	54.00 54.00 54.00 54.00 54.00 54.00 54.00	18.69 14.66 19.60 19.60 17.08 14.67	400 200 100 300 100 100	1 353 358 20 48 230
	Vertical	L								
7 8 9 10 11 12	1333.334 1647.727 1992.022 2555.400 3111.417 3571.741	31.80 30.70 30.60 30.10	28.27 28.88 31.58 32.51 32.92 33.16	3.91 4.37 4.72 5.16 5.79 6.29	32.24 32.37 32.52 32.55 32.59 32.63	33.24 32.68 34.48 35.72 36.22 36.92	54.00 54.00 54.00 54.00 54.00 54.00 54.00	20.76 21.32 19.52 18.28 17.78 17.08	200 200 100 100 300 100	162 146 62 358 239 273



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

Date 2018-07-25



Frequency[MHz]

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



Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05330 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

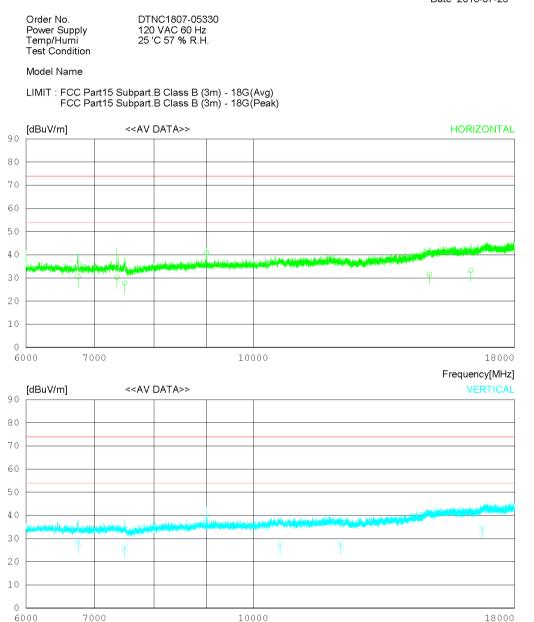
LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak) FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	. FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/1	n] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3 4 5 6	7359.75 7492.50 8999.25 14866.5	0 40.10 3 0 41.80 3 0 37.90 3 0 39.70 3 0 030.90 3 0 030.40 3	1.37 1.37 1.82 5.17	7.88 8.29 8.36 9.41 14.20 14.29	38.77 38.48 38.80 37.64 37.03 36.45	40.61 42.98 38.83 43.29 43.24 44.92	74.0 74.0 74.0 74.0 74.0 74.0 74.0	33.39 31.02 35.17 30.71 30.76 29.08	100 100 100 100 100 100	1 1 18 34 238
	Vertica	1								
7 8 9 10 11 12	7488.00 9000.00 10616.2 12168.7	0 37.70 3 0 36.70 3 0 40.20 3 5032.80 3 5033.90 3 5028.20 3	1.37 1.82 2.51 3.32	7.88 8.36 9.41 11.34 11.44 14.84	38.77 38.78 37.64 37.71 38.41 36.23	38.21 37.65 43.79 38.94 40.25 43.95	74.0 74.0 74.0 74.0 74.0 74.0 74.0	35.79 36.35 30.21 35.06 33.75 30.05	100 100 100 100 100 100	1 159 1 50 358 358



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

Date 2018-07-25



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

Frequency[MHz]



Date 2018-07-25

Order No. Power Supply Temp/Humi Test Condition DTNC1807-05330 120 VAC 60 Hz 25 'C 57 % R.H.

Model Name

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

No.	FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	Horizont	al								
2 7 3 7 4 8 5 1 6 1	5742.250 7359.876 7492.364 3999.250 14865.50 16306.00 Vertical	29.10 26.80 37.30 019.30 018.70	31.40 31.37 31.37 31.82 35.16 36.68	7.88 8.29 8.36 9.41 14.20 14.29	38.77 38.48 38.79 37.64 37.04 36.44	30.61 30.28 27.74 40.89 31.62 33.23	54.00 54.00 54.00 54.00 54.00 54.00 54.00	23.39 23.72 26.26 13.11 22.38 20.77	300 100 200 100 100 100	1 34 10 151 34 238
8 7 9 9 10 1 11 1	5744.000 7489.000 9000.000 10616.25 12168.35 16733.92	25.20 35.10 021.60 021.40	31.40 31.37 31.82 32.51 33.32 37.14	7.88 8.36 9.41 11.34 11.44 14.84	38.77 38.79 37.64 37.71 38.41 36.23	28.61 26.14 38.69 27.74 27.75 34.45	54.00 54.00 54.00 54.00 54.00 54.00 54.00	25.39 27.86 15.31 26.26 26.25 19.55	100 100 200 100 100	7 12 118 50 175 358

Calculation

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



# 8. Revision History

Date	Description	Revised By	Reviewed By
Aug. 07. 2018	Initial report	YongKi Kim	HyungJun Kim

-End of test report-