

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. : DREFCC1901-0044
2. Client / Applicant
 - Name : LG Electronics Inc.
 - Address : Twin Tower 128 Yeoui-daero, Yeongdeungpo-gu, Seoul, Korea 07336
3. Use of Report : Grant of Certification
4. Product Name / Model Name : Mobile Phone / LM-G820V
5. Test Standard : CAN/CSA CISPR 22-10
ICES-003 : 2016
ANSI C63.4 : 2014
FCC Part 15 Subpart B (personal computers and peripherals)
6. Date of Test : Jan. 24. 2019
7. Testing Environment : Temperature (19 ~ 23) °C , Humidity (45 ~ 49) % R.H.
8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Reviewed by
	Name : ChanGeun Lee (Signature)	Name : HyungJun Kim (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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Jan. 29. 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 23 rd , 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-1364, R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815	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. Twin Tower 128 Yeoui-daero, Yeongdeungpo-gu, Seoul, Korea 07336
Manufacturer	LG Electronics Inc. 222 LG-ro Jinwi-myeon, Pyeongtaek-si Gyeonggi-do, 17709, Republic of Korea
Factory	LG Electronics Inc. 222 LG-ro Jinwi-myeon, Pyeongtaek-si Gyeonggi-do, 17709, Republic of Korea
Product Name	Mobile Phone
Model Name	LM-G820V
Add Model Name	LMG820V, G820V
Rated Power	DC 3.87 V
FCC ID	ZNFG820V
IC ID	2703C-G820V
Remarks	Earphone 1. Manufacturer : CRESYN, 2. S/N : EAB63728251 USB Cable 1. Manufacturer : NINGBO , 2. S/N : EAD64746101

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	'READ' & 'WRITE' & 'DELETE'	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	KEYBOARD	DELL	KB212-B	None
AE	MOUSE	LG	SM-9023	58Q02801
AE	LCD MONITOR	DELL	UP2414Qt	CN-OJJRX2-74261-67B-4P4U-A00
AE	PC	DELL	DCNE	None
AE	SSD 3.0	SAMSUNG	MU-PT250B	S2WKNAAH32059X
AE	PRINTER	Bixolon	SRP-770	None
AE	Headset	SAMSUNG	SHS-150V/M	None

*Abbreviations:

AE - Auxiliary/Associated Equipment, or
SIM - Simulator

4.5 EUT In/Output Port

Name	Type*	Cable Max. >3 m	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
DSUB OUT	I/O	1.8	Shield	Plastic	
POWER IN	AC	1.8	Non Shield	Plastic	PC
DSUB IN	I/O	1.8	Shield	Plastic	
PARALLEL IN	I/O	2.0	Shield	Plastic	
SERIAL IN	I/O	1.9	Shield	Plastic	
USB	I/O	1.7	Shield	Plastic	
USB	I/O	1.7	Shield	Plastic	
USB	I/O	1.0	Shield	Plastic	
STEREO IN/OUT	I/O	2.0	Non Shield	Plastic	
USB	I/O	1.0	Shield	Plastic	SSD 3.0
POWER IN	DC	1.8	Non Shield	Plastic	PRINTER
PARALLEL OUT	I/O	2.0	Shield	Plastic	
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	I/O	1.0	Non Shield	Plastic	
*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 (Hz)	Phases	Remarks
1	AC 120	60	Single	None

5. Test Summary

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

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

- Conducted Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
0.20195	N	48.97	CAV	53.53	4.56

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
66.011	V	34.89	QP	40.00	5.11

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2019-01-24	23	45	100.1
Radiated Disturbance	2019-01-24	20	46	-
	2019-01-24	19	49	

7. Test Results : Emission

7.1 Conducted Disturbance

CAN/CSA CISPR 22 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 uncertainty	
Expended uncertainty <i>U</i> (95 %, Confidence level, <i>k</i> = 2)	2.61 dB

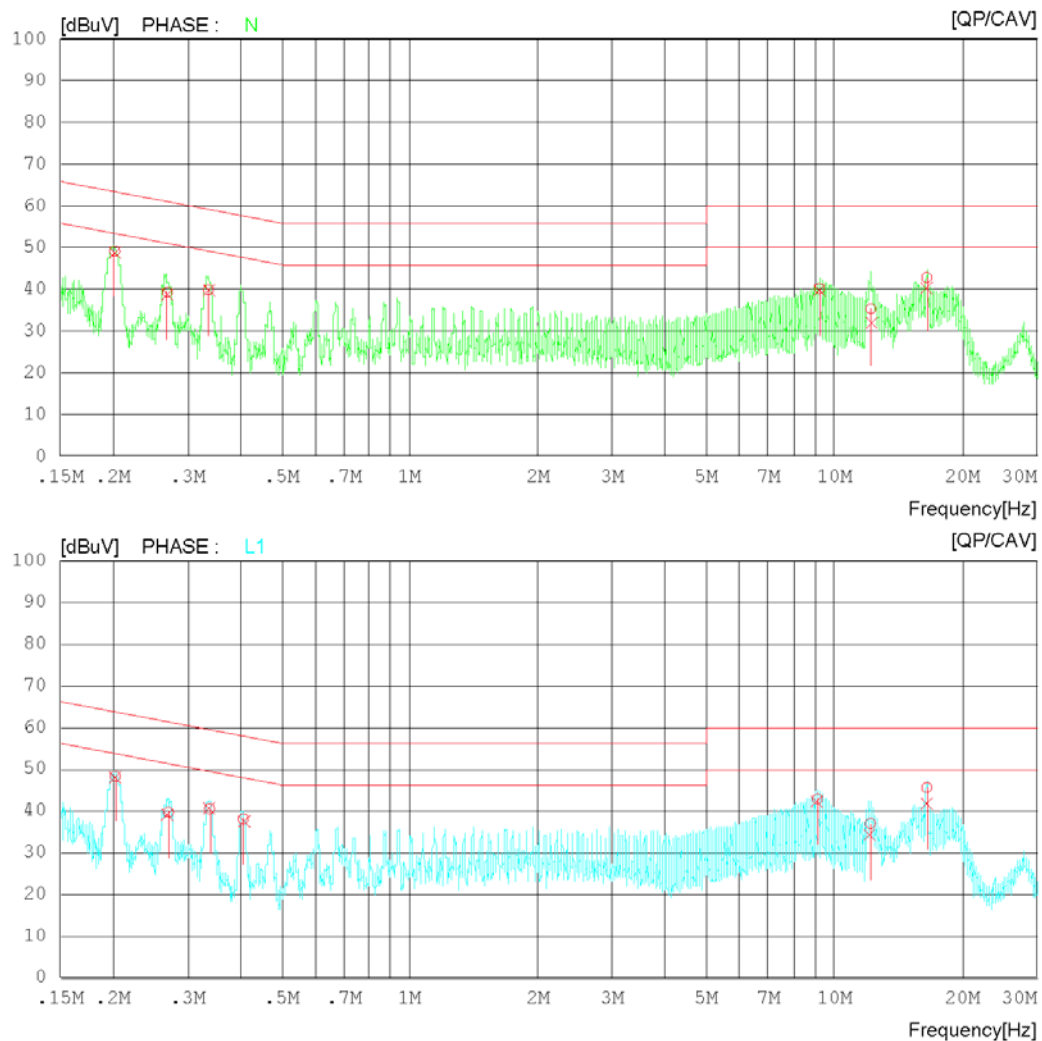
Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESR7	ROHDE&SCHWARZ	101109	2018.10.29	2019.10.29
LISN	LISN1600	TTI	197204	2018.06.07	2019.06.07
TWO-LINE V-NETWORK	ENV216	ROHDE&SCHWARZ	101979	2018.12.06	2019.12.06
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2018.09.05	2019.09.05
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)	120	Test Frequency (Hz)	60

Results of Conducted Emission

DT&C
Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 23 'C 45 %.R.H. 100.1 kPa
Test Condition PC LINK

LIMIT : CISPR32_B QP
CISPR32_B AV


Results of Conducted Emission

DT&C
Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi/Atm 23 'C 45 % R.H. 100.1 kPa
Test Condition PC LINK

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	0.20195	29.16	28.95	20.02	49.18	48.97	63.53	53.53	14.35	4.56	N
2	0.26850	19.49	18.75	19.80	39.29	38.55	61.16	51.16	21.87	12.61	N
3	0.33550	19.93	19.75	19.90	39.83	39.65	59.31	49.31	19.48	9.66	N
4	9.23611	19.64	19.05	20.54	40.18	39.59	60.00	50.00	19.82	10.41	N
5	12.20530	14.53	11.25	20.83	35.36	32.08	60.00	50.00	24.64	17.92	N
6	16.50353	21.82	19.53	21.03	42.85	40.56	60.00	50.00	17.15	9.44	N
7	0.20252	28.15	27.96	20.02	48.17	47.98	63.51	53.51	15.34	5.53	L1
8	0.27015	19.79	19.20	19.80	39.59	39.00	61.11	51.11	21.52	12.11	L1
9	0.33773	20.53	20.45	19.91	40.44	40.36	59.26	49.26	18.82	8.90	L1
10	0.40542	18.02	17.40	20.03	38.05	37.43	57.74	47.74	19.69	10.31	L1
11	9.12633	22.26	21.74	20.52	42.78	42.26	60.00	50.00	17.22	7.74	L1
12	12.17187	16.03	13.31	20.83	36.86	34.14	60.00	50.00	23.14	15.86	L1
13	16.50366	24.43	20.61	21.03	45.46	41.64	60.00	50.00	14.54	8.36	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

CAN/CSA CISPR 22 ANSI C63.4		Radiated disturbance 30 MHz –XX GHz**		Result
<u>Method:</u> Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 or 3 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 contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 shown.				
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 uncertainty	
Expended uncertainty <i>U</i> (95 %, Confidence level, <i>k</i> = 2)	3 m _ 4.22 dB, (30 ~ 1 000) MHz 10 m _ 2.89 dB, (30 ~ 1 000) MHz 4.16 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	100469	2018.06.28	2019.06.28
TRILOG BROAD BAND ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
6DB ATTENUATOR	8491B	HP	23831	2018.09.17	2020.09.17
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
PRE AMPLIFIER	8449B	AGILENT TECHNOLOGIES	3008A01590	2018.02.20	2019.02.20
HORN ANTENNA WITH PREAMPLIFIER	3116C / JS44-18004000-35-8P	ETS-LINDGREN / L3 NARDA-MITEQ	00213177 / 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)	120	Test Frequency (Hz)	60

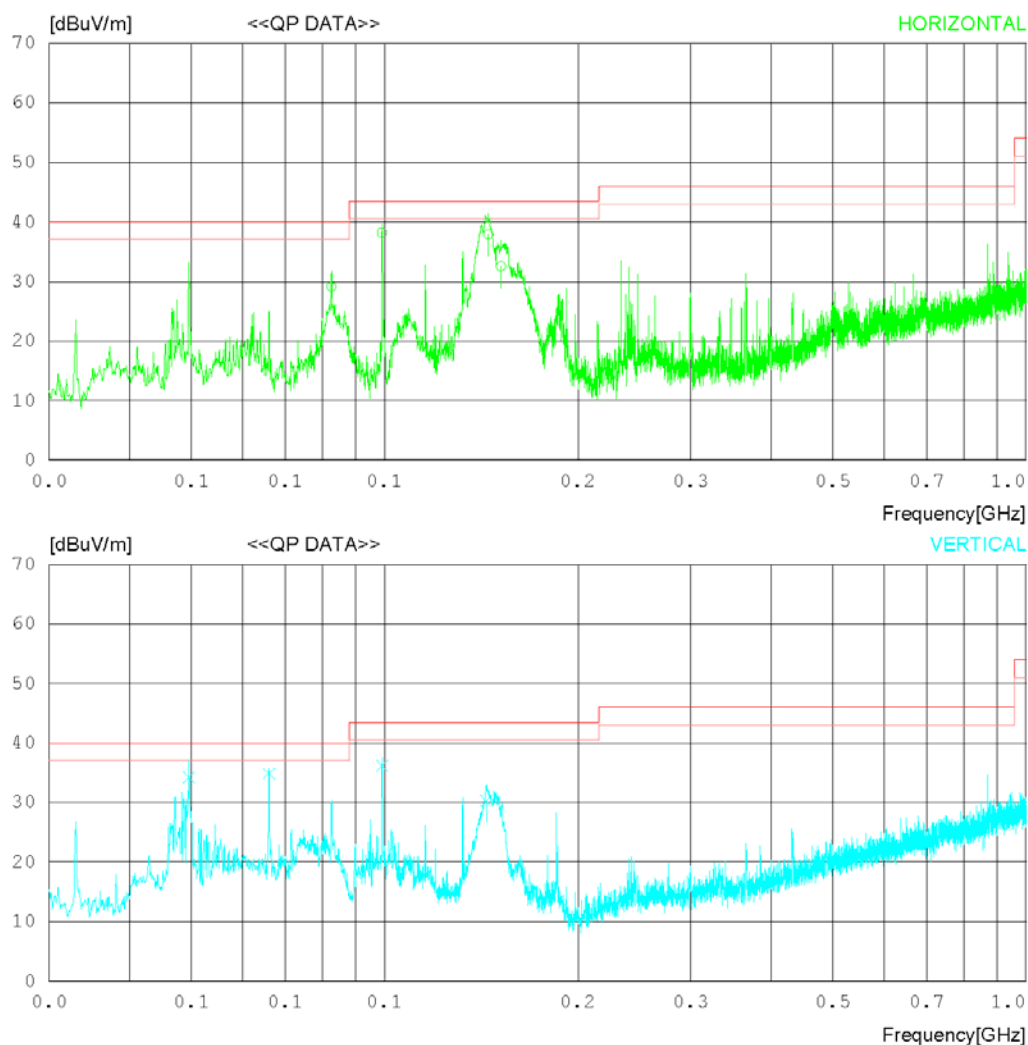
RADIATED EMISSION

Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 46 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 20 °C 46 %R.H.
Test Condition PC LINK

Memo

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

NO.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	82.622	39.20	13.94	1.47	25.54	29.07	40.00	10.93	240	320
2	99.111	47.20	15.12	1.39	25.55	38.16	43.50	5.34	300	350
3	145.064	42.80	18.80	1.95	25.58	37.97	43.50	5.53	240	354
4	151.854	37.20	18.90	2.02	25.58	32.54	43.50	10.96	100	280
----- Vertical -----										
5	49.521	40.50	18.25	1.10	25.51	34.34	40.00	5.66	100	140
6	66.011	41.90	17.20	1.31	25.52	34.89	40.00	5.11	100	0
7	99.111	45.20	15.12	1.39	25.55	36.16	43.50	7.34	100	64
8	143.973	35.20	18.78	1.94	25.58	30.34	43.50	13.16	220	70

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

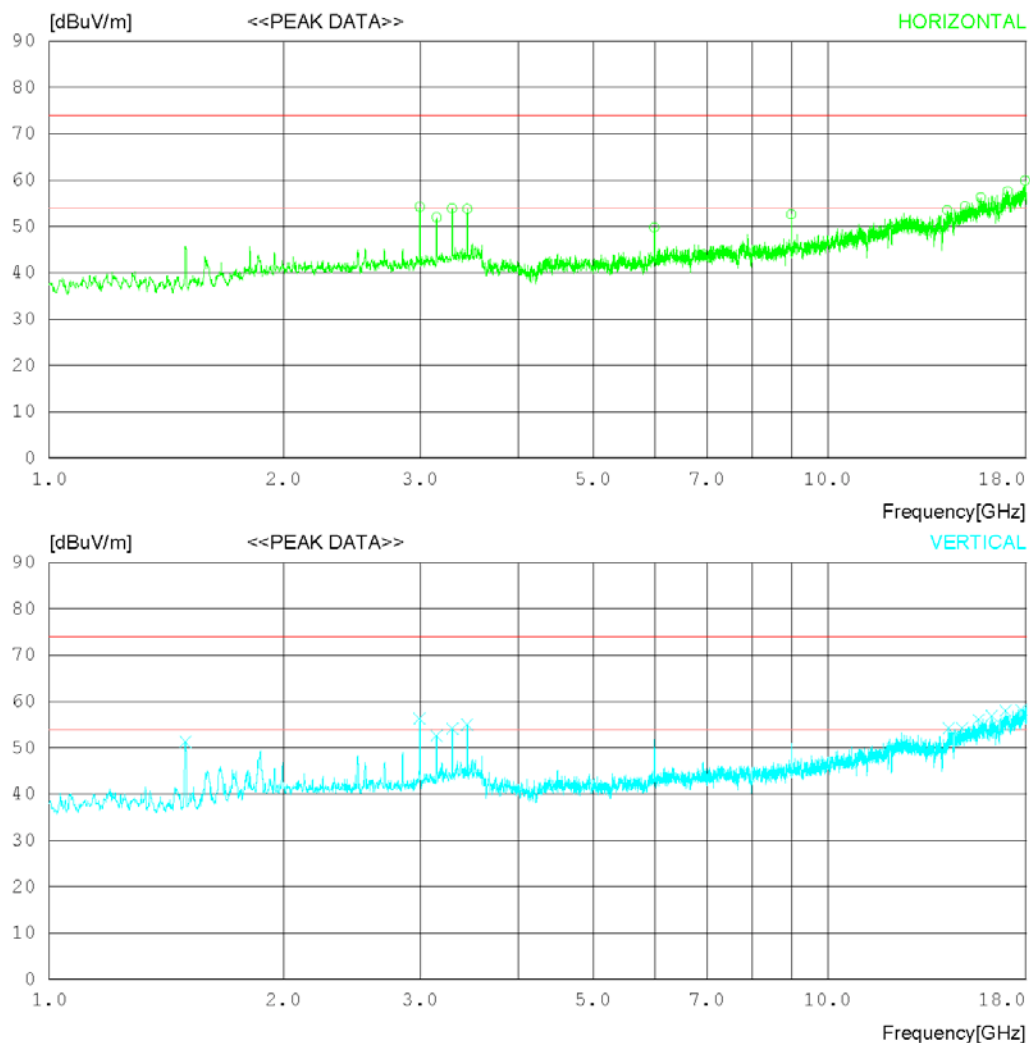
RADIATED EMISSION

Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °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 40 GHz and not found emissions above 18 GHz.

RADIATED EMISSION

Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °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	2993.250	53.90	32.49	2.65	34.84	54.20	74.0	19.8	100	358
2	3148.375	51.10	33.00	2.64	34.77	51.97	74.0	22.03	400	178
3	3295.000	52.90	32.91	2.77	34.69	53.89	74.0	20.11	100	185
4	3445.875	52.70	32.80	2.91	34.62	53.79	74.0	20.21	170	358
5	5991.625	45.70	35.10	3.78	34.76	49.82	74.0	24.18	310	1
6	8990.000	46.60	36.39	4.95	35.33	52.61	74.0	21.39	400	358
7	14260.000	41.60	39.11	6.76	33.90	53.57	74.0	20.43	100	219
8	15014.380	42.30	39.70	6.98	34.61	54.37	74.0	19.63	330	289
9	15745.380	43.50	40.24	7.23	34.71	56.26	74.0	17.74	100	358
10	17052.250	42.00	41.75	7.99	34.16	57.58	74.0	16.42	100	145
11	17944.750	43.40	41.39	8.94	33.86	59.87	74.0	14.13	280	83
----- Vertical -----										
12	1497.250	56.70	27.90	2.00	35.34	51.26	74.0	22.74	400	0
13	2993.250	56.00	32.49	2.65	34.84	56.30	74.0	17.7	350	0
14	3146.250	51.80	32.99	2.64	34.77	52.66	74.0	21.34	100	0
15	3297.125	53.10	32.91	2.77	34.69	54.09	74.0	19.91	220	0
16	3443.750	53.90	32.80	2.91	34.62	54.99	74.0	19.01	100	0
17	14296.130	42.10	39.16	6.88	33.93	54.21	74.0	19.79	300	0
18	14891.130	42.10	39.63	7.05	34.51	54.27	74.0	19.73	100	0
19	15628.500	43.60	40.03	7.18	34.70	56.11	74.0	17.89	190	0
20	16249.000	42.70	41.15	7.66	34.61	56.90	74.0	17.1	100	306
21	16946.000	42.40	41.78	7.98	34.21	57.95	74.0	16.05	170	358
22	17725.880	42.20	41.35	8.61	33.93	58.23	74.0	15.77	230	257

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

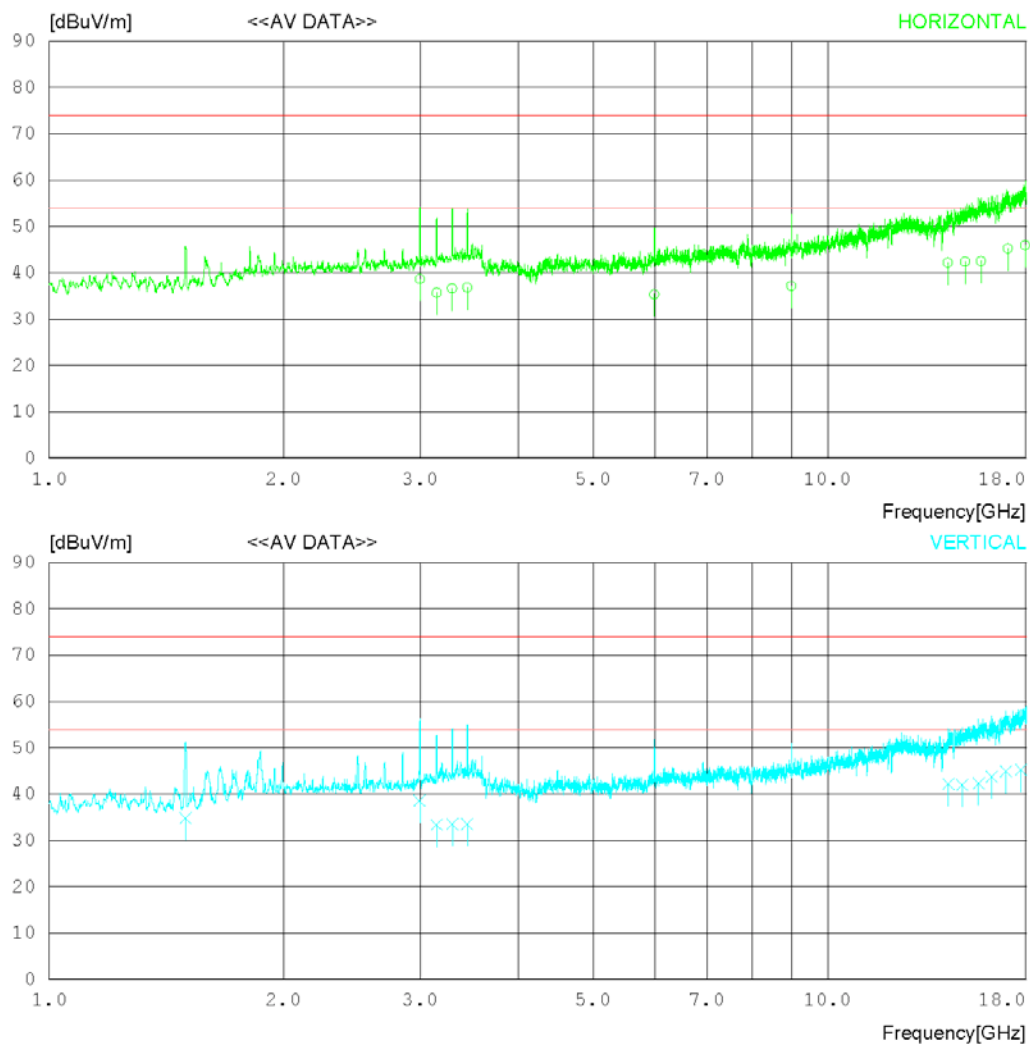
RADIATED EMISSION

Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °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 40 GHz and not found emissions above 18 GHz.

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Date 2019-01-24

Order No. DTNC1901-00583,00584
Power Supply 120 VAC 60 Hz
Temp/Humi 19 °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	2993.480	38.40	32.49	2.65	34.84	38.70	54.00	15.30	100	351
2	3147.775	34.80	33.00	2.64	34.77	35.67	54.00	18.33	400	178
3	3295.310	35.60	32.91	2.77	34.69	36.59	54.00	17.41	100	190
4	3445.915	35.70	32.80	2.91	34.62	36.79	54.00	17.21	190	358
5	8990.340	31.20	36.39	4.95	35.33	37.21	54.00	16.79	320	358
6	14261.140	30.20	39.11	6.76	33.90	42.17	54.00	11.83	400	230
7	15014.800	30.30	39.70	6.98	34.61	42.37	54.00	11.63	100	290
8	15744.930	29.80	40.24	7.23	34.71	42.56	54.00	11.44	310	355
9	17052.830	29.60	41.75	7.99	34.16	45.18	54.00	8.82	100	160
10	17943.910	29.40	41.39	8.94	33.86	45.87	54.00	8.13	100	83
11	5991.715	31.20	35.10	3.78	34.76	35.32	54.00	18.68	310	10
----- Vertical -----										
12	2993.940	38.20	32.49	2.65	34.84	38.50	54.00	15.50	400	290
13	3147.330	32.50	32.99	2.64	34.77	33.36	54.00	20.64	380	180
14	3296.945	32.60	32.91	2.77	34.69	33.59	54.00	20.41	100	120
15	3443.150	32.50	32.80	2.91	34.62	33.59	54.00	20.41	190	80
16	14297.380	30.10	39.16	6.88	33.94	42.20	54.00	11.80	100	65
17	14891.810	29.80	39.64	7.05	34.51	41.98	54.00	12.02	290	220
18	15628.550	29.80	40.03	7.18	34.70	42.31	54.00	11.69	100	280
19	16249.490	29.60	41.15	7.66	34.61	43.80	54.00	10.20	188	350
20	16946.140	29.40	41.78	7.98	34.21	44.95	54.00	9.05	100	355
21	17724.440	29.20	41.34	8.60	33.93	45.21	54.00	8.79	180	270
22	1497.190	40.20	27.90	2.00	35.34	34.76	54.00	19.24	210	30

Calculation

Result(dBuV/m) : Reading Value(dBuV) + Cable loss(dB) - Pre amplifier gain(dB) + Ant. Factor(dB)
Margin : Limit(dBuV/m) - Result(dBuV/m)

8. Revision History

Date	Description	Revised By	Reviewed By
Jan. 29. 2019	Initial report	ChanGeun Lee	HyungJun Kim

-End of test report-