

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. : DREFCC2009-0224
2. Client / Applicant
 - Name : LG Electronics USA, Inc.
 - Address : 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
3. Use of Report : Grant of Certification
4. Product Name / Model Name : Mobile Phone / LM-F100EMW
(FCC ID : ZNFF100EMW)
5. Test Standard : ANSI C 63.4 : 2014
FCC Part 15 Subpart B
(Other Class B digital devices & peripherals)
6. Date of Test : Sep. 01. 2020 ~ Sep. 02. 2020
7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
8. Testing Environment : Temperature (21 ~ 23) °C , Humidity (40 ~ 45) % R.H.
9. Test Result : Refer to the attached Test Result

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

Affirmation	Tested by	Reviewed by
	Name : JunSeo Park 	Name : KyoungHwan Bae 

Sep. 08. 2020

DT&C Co., Ltd.

Not abided by KS Q ISO / IEC 17025 and KOLAS accreditation.

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-3385, R-14076, R-4180, R-4496, T-1442, G-10338, G-10754, 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 USA, Inc. 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Manufacturer	LG Electronics USA, Inc. 111 Sylvan Avenue, North Building Englewood Cliffs, NJ 07632
Product Name	Mobile Phone
Model Name	LM-F100EMW
Add Model Name	LMF100EMW, F100EMW, LM-F100EM, LMF100EM, F100EM
Rated Power	DC 3.87 V
FCC ID	ZNFF100EMW
Remarks	None

* Accessory

Equipment	No.	Manufacturer	Model Name	Product Number
Earphone	1	BUJEON	BHS307-W0	EAB65817201
Cable	1	Luxshare	L1LUC014-CS-H	EAB65817202

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, internal storage (Measures the front screen angle at 0°, 90°, 0 is the worst condition)
2	Wireless Charging	The EUT on the wireless charging pad (Measures the front screen angle at 0°, 90°, 0 is the worst condition)
3	DISPLAY	EUT Was with H letter output connected to monitor (Measures the front screen angle at 0°, 90°, 0 is the worst condition)

4.3 Test Configuration Mode

No.	Mode	Description
1	PC LINK	EUT was connected PC by USB cable C type and continuously operated
2	Wireless Charging	EUT was at high speed on the wireless charger
3	DISPLAY	EUT was connected Monitor by USB cable C type to hdmi and continuously operated.

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	PC	CORAIR	CC-9011077-WW	87419449704
AE	PRINTER	LWTZ181308	AcuLaser M1200	EPSON
AE	SSD	SAMSUNG	MU-PT250B	S2WKNAAH32059X
AE	KEYBOARD	LG	ST-220	004NMGD47999
AE	MOUSE	LENOVO	MSU111	11K62700107DW
AE	LED MONITOR	DELL	P2417Hb	N/A
AE	Headset	DONGGUANENMEY	SHS-150V/W	N/A
AE	wireless charger	belkin	F7U050	26S10EH4840924
AE	wireless charger adaptor	belkin	ADS-26FSG12	N/A
AE	USIM CARD	N/A	N/A	N/A
AE	MICRO SD CARD	SANDISK	N/A	N/A
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

(MODE 1)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
USB	I/O	1.0	Shield	Plastic	EUT
USB(EUT)	I/O	1.0	Shield	Plastic	PC
USB(MOUSE)	I/O	1.8	Non shield	Plastic	
USB(PRINTER)	I/O	1.8	Non shield	Plastic	
PS2(KEYBOARD)	I/O	1.8	Non shield	Plastic	
USB(SSD)	I/O	1.0	Non shield	Plastic	
HDMI(MONITOR)	I/O	1.8	Shield	Plastic	
AUX(EAR MIC)	I/O	1.8	Non shield	Plastic	
POWER(PC)	AC	1.8	Non shield	Plastic	
POWER(MONITOR)	AC	1.8	Non shield	Plastic	
POWER(PRINTER)	AC	1.8	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					

(MODE 2)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
DC IN	DC	1.5	Non shield	Plastic	WIRELESS CHARGING PAD
DC OUT POEPOWER	DC AC	1.5 -	Non shield -	Plastic -	WIRELESS CHARGER ADAPTOR
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

(MODE 3)

MODE 6)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
USB	I/O	1.8	Shield	Plastic	-
HDMI	I/O	1.8	Shield	Plastic	LCD Monitor
POWER	AC	1.8	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
2	DC 3.87	-	-	Battery

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 [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.40080	L	35.97	Cispr - Average	47.84	11.87

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
742.503	H	41.06	Quasi - Peak	46.00	4.94

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2020-09-02	21	45	-
Radiated Disturbance	2020-09-01 2020-09-02	23 21	45 40	-

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, 2	
	EUT Operation mode	1, 2	
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 U (95 %, Confidence level, $k = 2$)	3.6 dB
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.	

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0170	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESU	ROHDE&SCHWARZ	100538	2020.01.20	2021.01.20
PULSE LIMITER	ESH3-Z2	ROHDE&SCHWARZ	101333	2019.09.17	2020.09.17
LISN	NSLK 8128 RC	SCHWARZBECK	8128 RC-387	2019.11.04	2020.11.04
LISN	KNW-407	KYORITSU	8-317-8	2019.12.22	2020.12.22

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

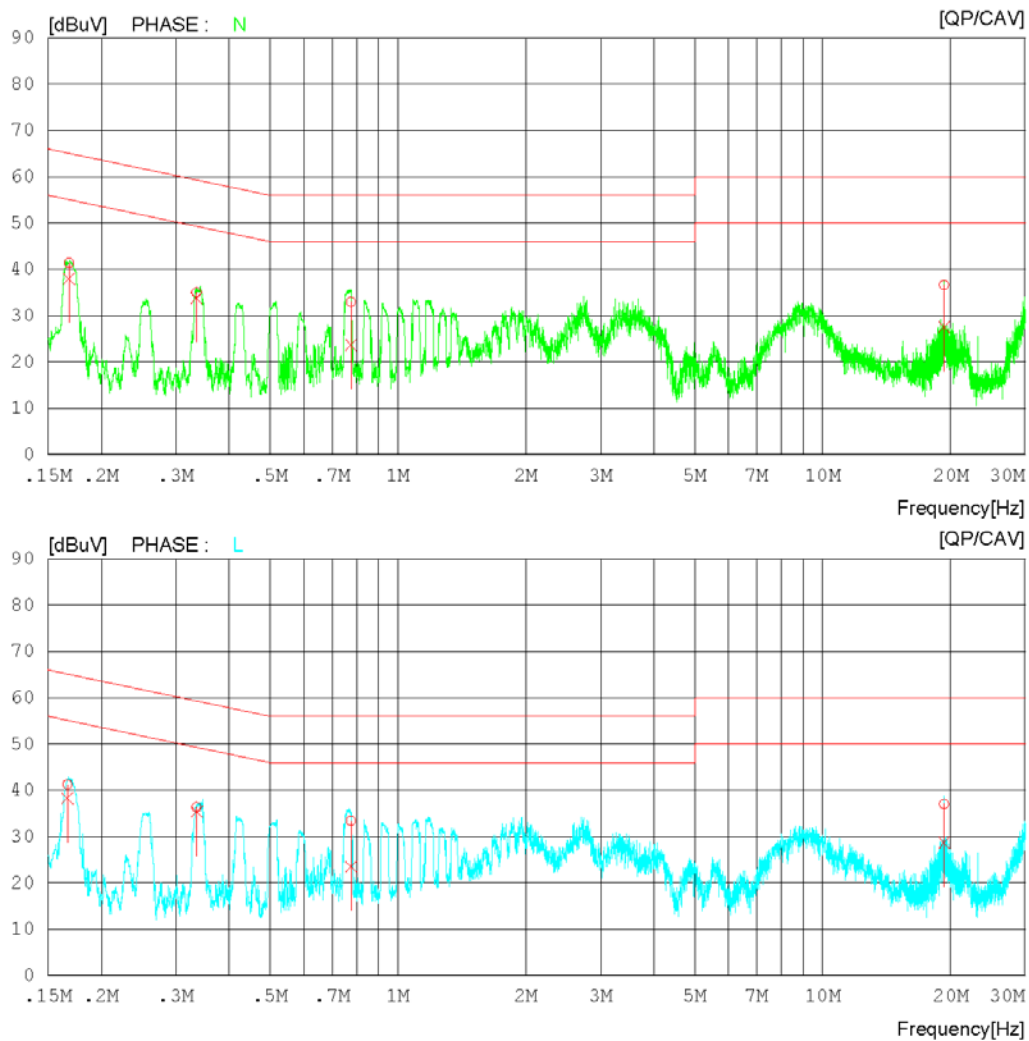
Results of Conducted Emission

DTNC

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 45 % R.H.
Test Condition PC LINK

LIMIT : FCC Part15 Subpart.B Class B.QP
FCC Part15 Subpart.B Class B.AV



Results of Conducted Emission

DTNC

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 45 % R.H.
Test Condition PC LINK

LIMIT : FCC Part15 Subpart.B Class B.QP
FCC Part15 Subpart.B Class B.AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP	CAV		QP	CAV	QP	CAV	QP	CAV	
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.16797	31.33	28.06	10.00	41.33	38.06	65.06	55.06	23.73	17.00	N
2	0.33554	25.00	23.83	10.02	35.02	33.85	59.31	49.31	24.29	15.46	N
3	0.77515	22.93	13.71	10.03	32.96	23.74	56.00	46.00	23.04	22.26	N
4	19.32608	26.00	17.02	10.57	36.57	27.59	60.00	50.00	23.43	22.41	N
5	0.16657	31.22	28.19	10.00	41.22	38.19	65.13	55.13	23.91	16.94	L
6	0.33582	26.35	25.30	10.02	36.37	35.32	59.31	49.31	22.94	13.99	L
7	0.77577	23.32	13.45	10.03	33.35	23.48	56.00	46.00	22.65	22.52	L
8	19.32800	26.55	18.19	10.48	37.03	28.67	60.00	50.00	22.97	21.33	L

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

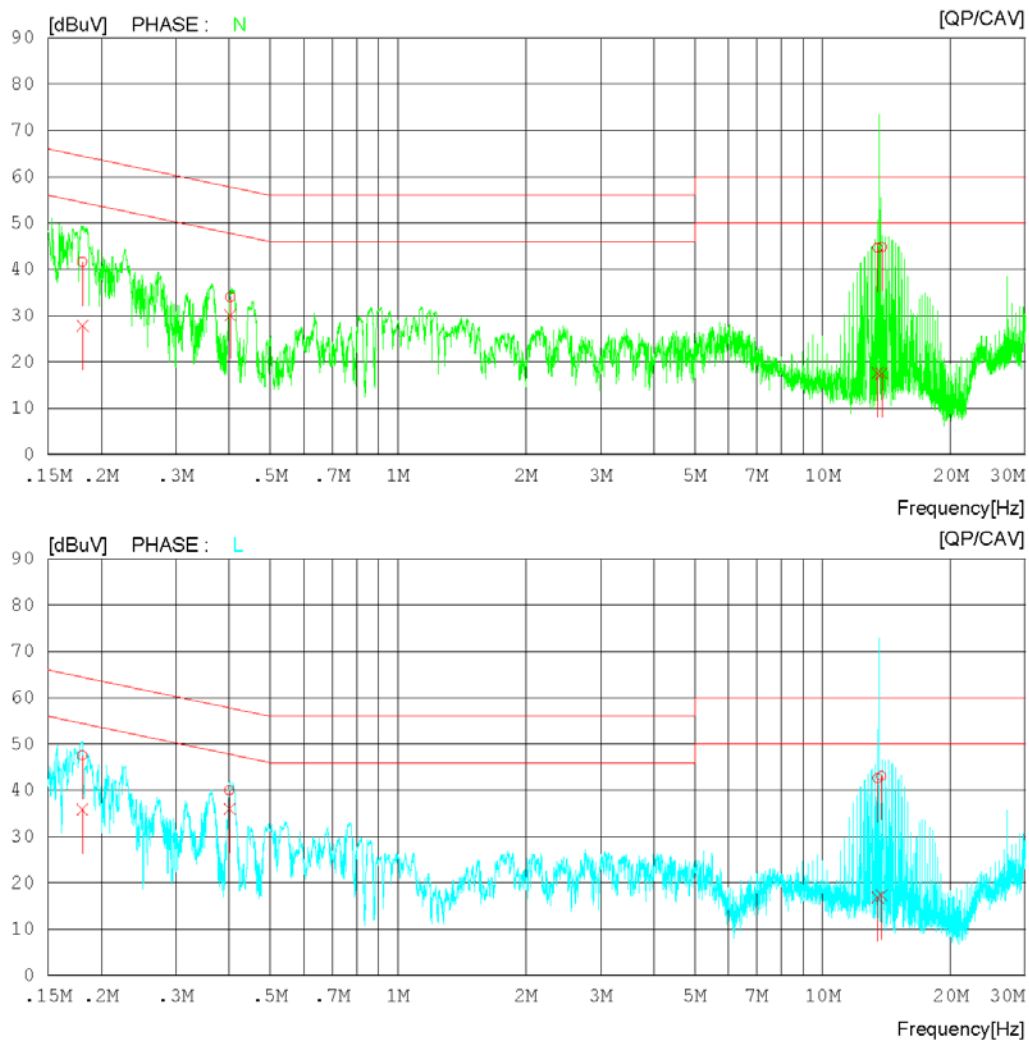
Results of Conducted Emission

DTNC

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 45 % R.H.
Test Condition Wireless Charging

LIMIT : FCC Part15 Subpart.B Class B.QP
FCC Part15 Subpart.B Class B.AV



* Remark : 13.56 MHz are NFC frequency.
27.12 MHz are NFC harmonic frequency.

Results of Conducted Emission

DTNC

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 45 % R.H.
Test Condition Wireless Charging

LIMIT : FCC Part15 Subpart.B Class B.QP
FCC Part15 Subpart.B Class B.AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP	CAV		QP	CAV	QP	CAV	QP	CAV	
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.18071	31.63	17.79	10.00	41.63	27.79	64.45	54.45	22.82	26.66	N
2	0.40304	23.99	20.08	10.03	34.02	30.11	57.79	47.79	23.77	17.68	N
3	13.47000	34.21	7.23	10.45	44.66	17.68	60.00	50.00	15.34	32.32	N
4	13.77237	34.32	7.13	10.48	44.80	17.61	60.00	50.00	15.20	32.39	N
5	0.18060	37.49	25.84	10.00	47.49	35.84	64.46	54.46	16.97	18.62	L
6	0.40080	29.96	25.94	10.03	39.99	35.97	57.84	47.84	17.85	11.87	L
7	13.47000	32.11	6.42	10.45	42.56	16.87	60.00	50.00	17.44	33.13	L
8	13.76917	32.57	6.78	10.48	43.05	17.26	60.00	50.00	16.95	32.74	L

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 – 40 GHz			Result
Method: 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, 2, 3	
	EUT Operation mode		1, 2, 3	
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A		Class B	
	3 m distance	10 m distance	3 m distance	
30 to 88	49.1	39.1	40	
88 to 216	53.5	43.5	43.5	
216 to 960	56.4	46.4	46	
960 to 1 000	59.5	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)			6.88 dB, (30 ~ 1 000) MHz 6.52 dB, (1 GHz Above)	
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.				

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	2019.12.20	2020.12.20
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	2020.02.13	2021.02.13
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2020.03.26	2021.03.26
PRE AMPLIFIER	8449B	H.P	3008A00887	2020.08.31	2021.08.31
HORN ANTENNA WITH PREAMPLIFIER	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
	MLA-0618-B03-34	TSJ	1785642	2019.12.31	2020.12.31
HORN ANTENNA WITH PREAMPLIFIER	3116C	ETS-LINDGREN	00213177	2019.12.12	2020.12.12
	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2019.11.04	2020.11.04
(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

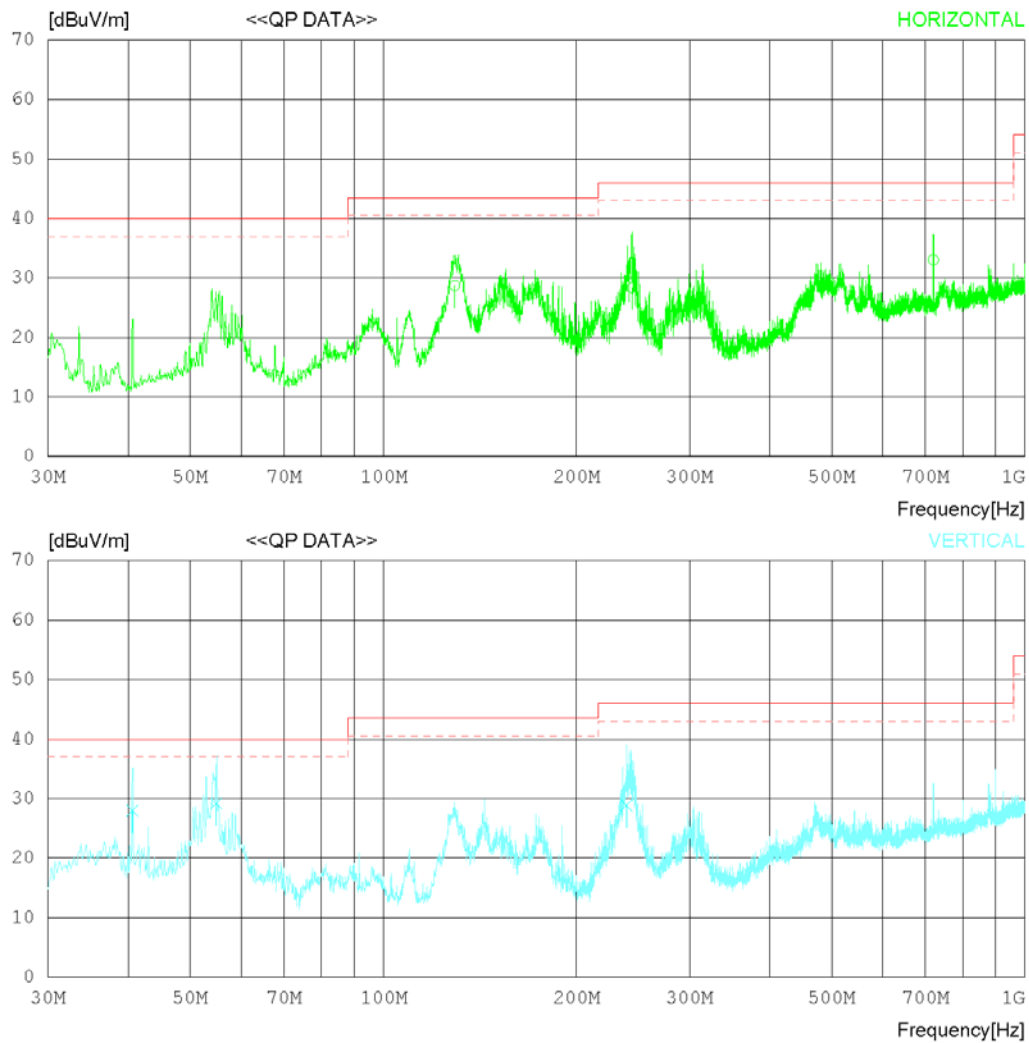
RADIATED EMISSION

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 40 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 40 % 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	129.142	36.25	17.91	1.36	26.79	28.73	43.50	14.77	122	78
2	244.077	35.12	18.06	1.81	26.60	28.39	46.00	17.61	322	110
3	720.124	28.65	27.40	3.12	26.15	33.02	46.00	12.98	121	353
----- Vertical -----										
4	40.642	36.77	17.12	0.67	26.57	27.99	40.00	12.01	122	78
5	54.911	36.13	18.96	0.79	26.64	29.24	40.00	10.77	305	86
6	239.635	35.62	18.07	1.77	26.60	28.86	46.00	17.14	112	110

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

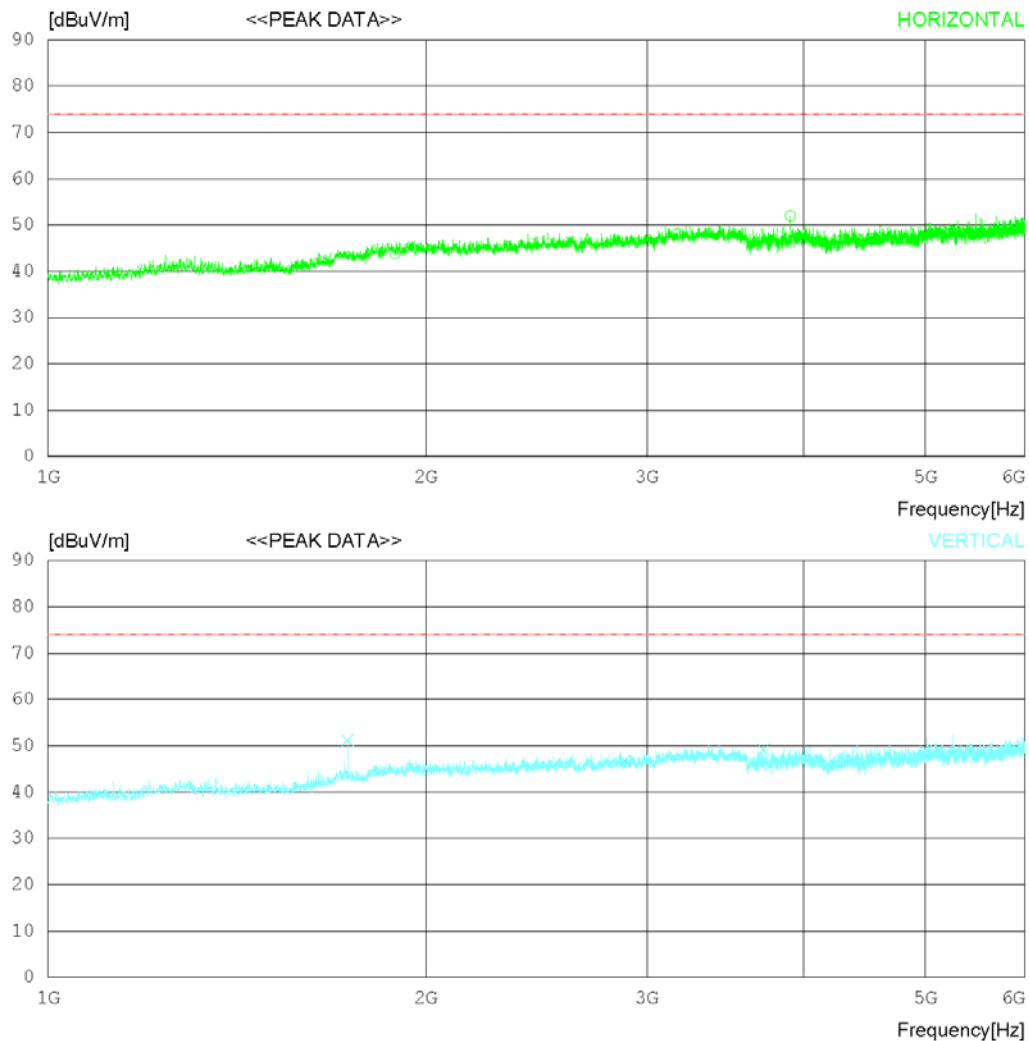
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1890	40.8	31.32	6.88	35.22	0	43.78	74	30.22	Hori	121	329
2	3170	41.7	33.14	8.37	35.12	0	48.09	74	25.91	Hori	223	352
3	3901.25	43.8	33.5	9.42	34.75	0	51.97	74	22.03	Hori	336	358
4	1733.125	49.9	29.63	7.06	35.39	0	51.2	74	22.8	Vert	122	6
5	2882.5	41.8	32.67	7.55	35.19	0	46.83	74	27.17	Vert	305	277
6	3716.875	41.8	33.4	8.74	34.84	0	49.1	74	24.9	Vert	135	358

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

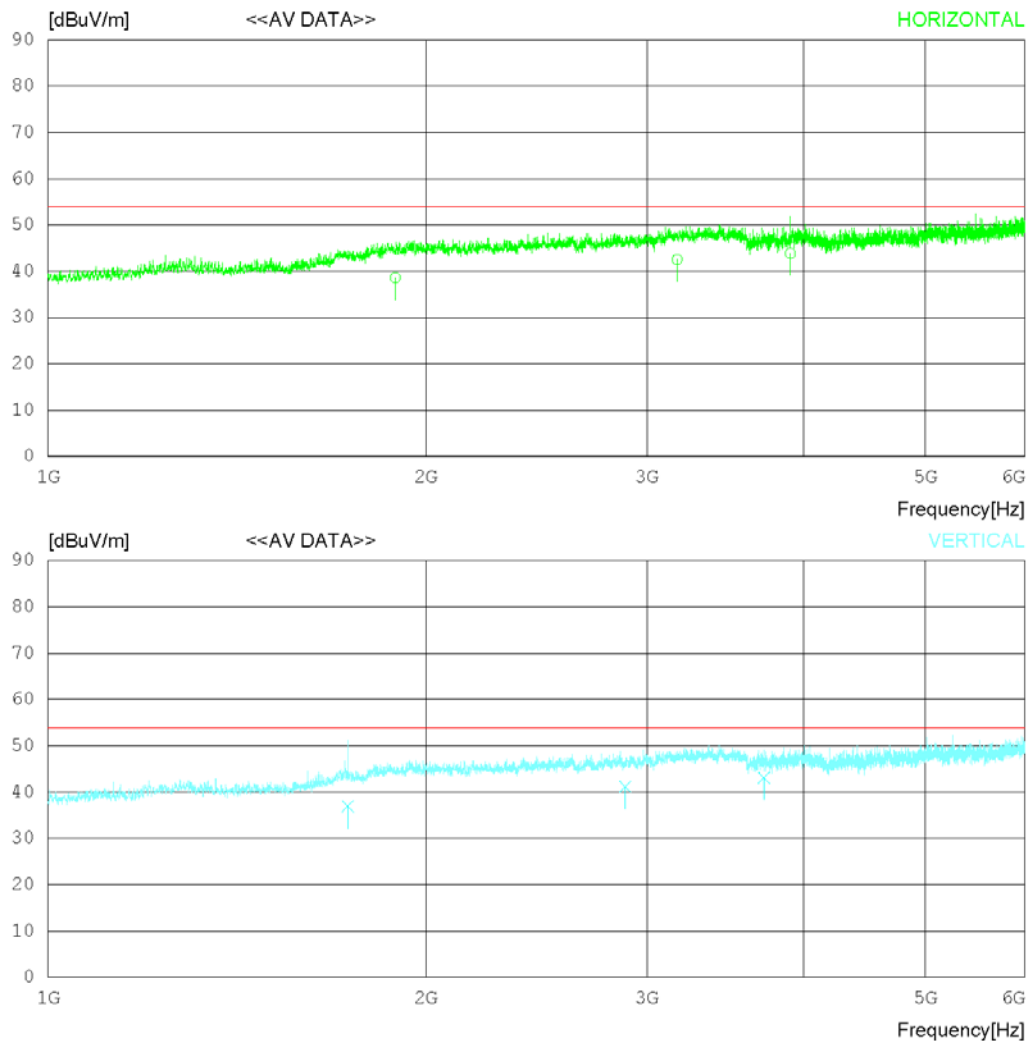
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1733.141	35.63	29.63	7.06	35.39	0	36.93	54	17.07	Vert	232	78
2	1890.042	35.66	31.32	6.88	35.22	0	38.64	54	15.36	Hori	123	78
3	2882.566	36.11	32.67	7.55	35.19	0	41.14	54	12.86	Vert	122	110
4	3170.675	36.13	33.14	8.38	35.11	0	42.54	54	11.47	Hori	133	110
5	3716.811	35.77	33.4	8.74	34.84	0	43.07	54	10.93	Vert	133	305
6	3901.211	35.66	33.5	9.42	34.75	0	43.83	54	10.17	Hori	255	322

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

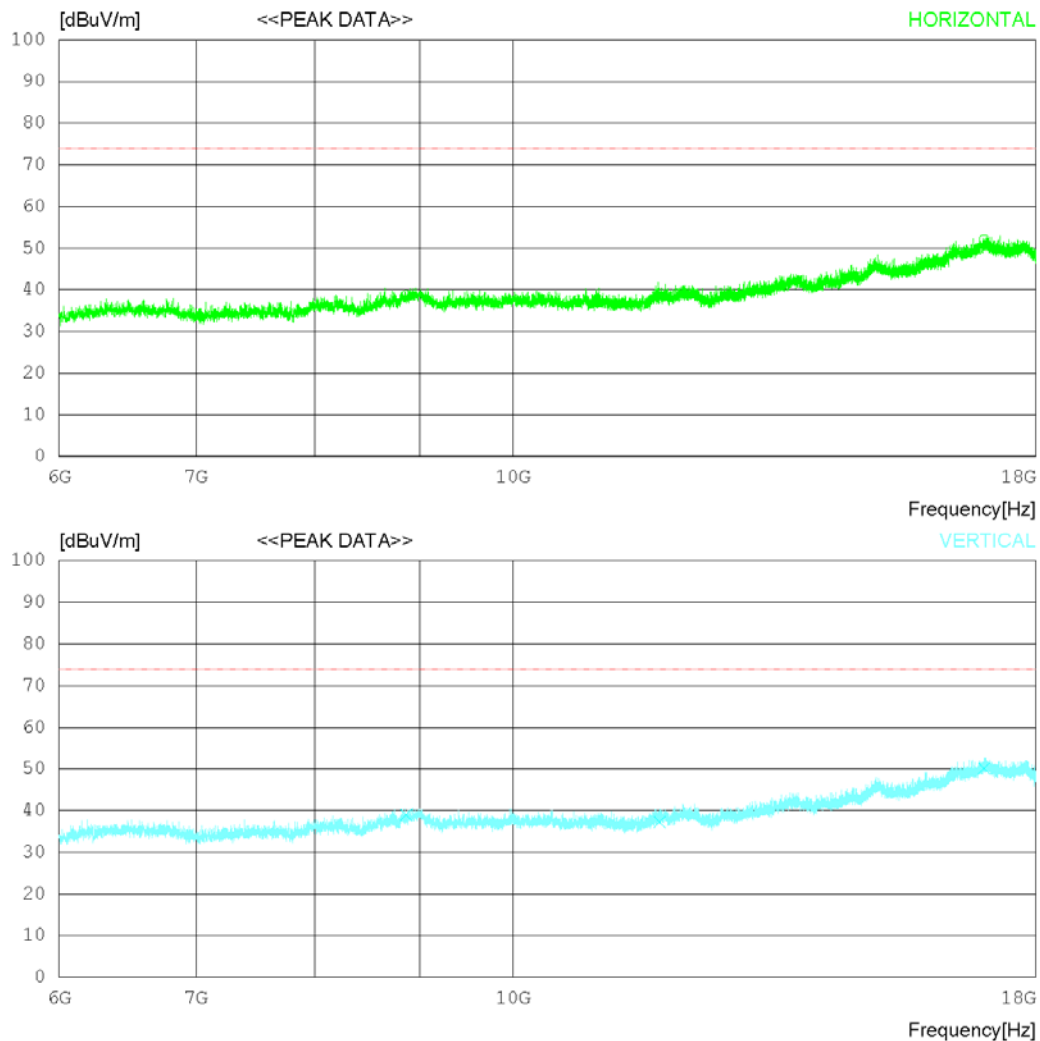
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	8866.5	29	31.99	15.06	37.42	0	38.63	74	35.37	Hori	223	0
2	11790.75	26.7	33.24	16.32	37.99	0	38.27	74	35.73	Hori	131	301
3	16983.75	27.2	37.53	23.67	36.39	0	52.01	74	21.99	Hori	244	11
4	8866.5	29.3	31.99	15.06	37.42	0	38.93	74	35.07	Vert	305	212
5	11790.75	25.7	33.24	16.32	37.99	0	37.27	74	36.73	Vert	223	302
6	16983.75	25.3	37.53	23.67	36.39	0	50.11	74	23.89	Vert	147	116

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

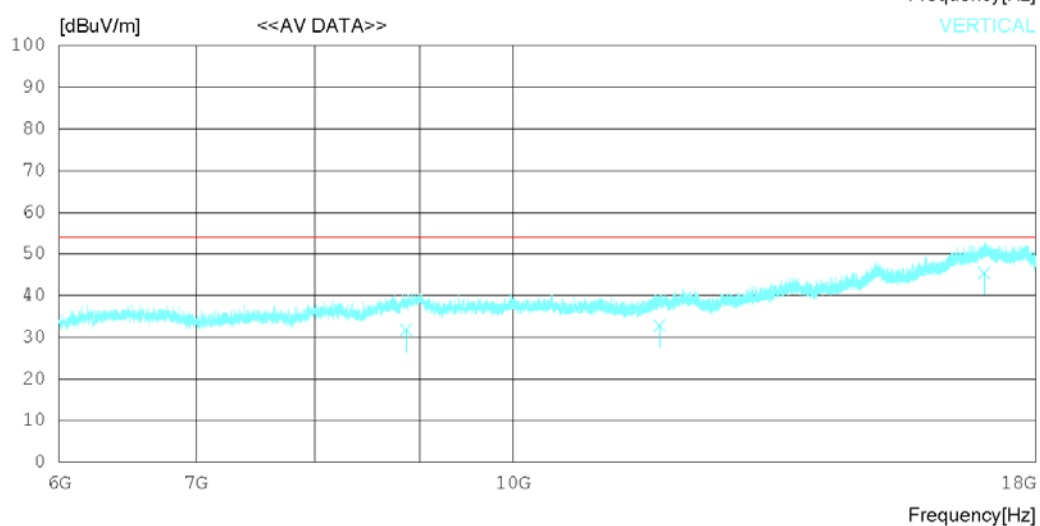
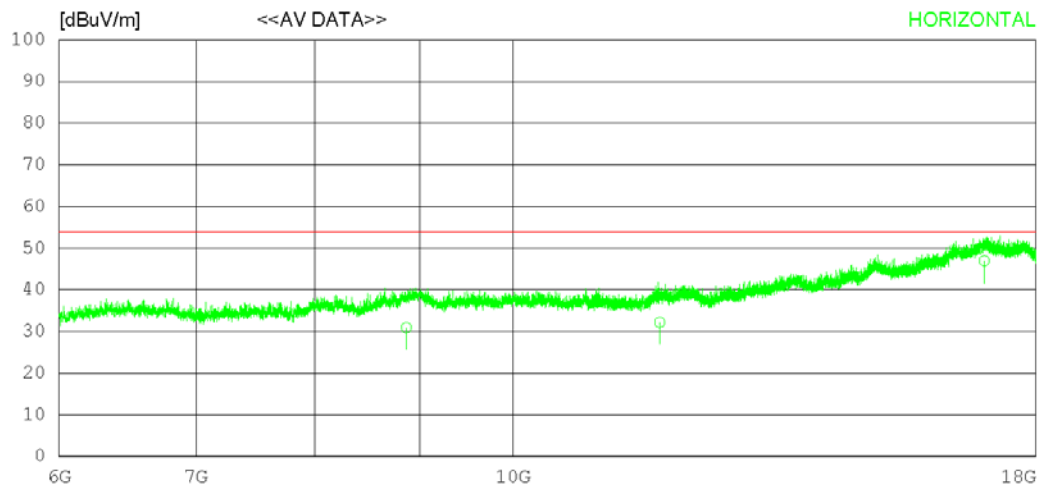
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	8866.542	21.25	31.99	15.06	37.42	0	30.88	54	23.12	Hori	232	78
2	8866.542	22.12	31.99	15.06	37.42	0	31.75	54	22.25	Vert	121	78
3	11790.77	20.65	33.24	16.32	37.99	0	32.22	54	21.78	Hori	111	110
4	11790.76	21.25	33.24	16.32	37.99	0	32.82	54	21.18	Vert	222	110
5	16983.74	20.65	37.53	23.67	36.39	0	45.46	54	8.54	Vert	313	353
6	16983.44	22.15	37.53	23.67	36.39	0	46.96	54	7.04	Hori	247	225

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	120	Test Frequency (Hz)	60

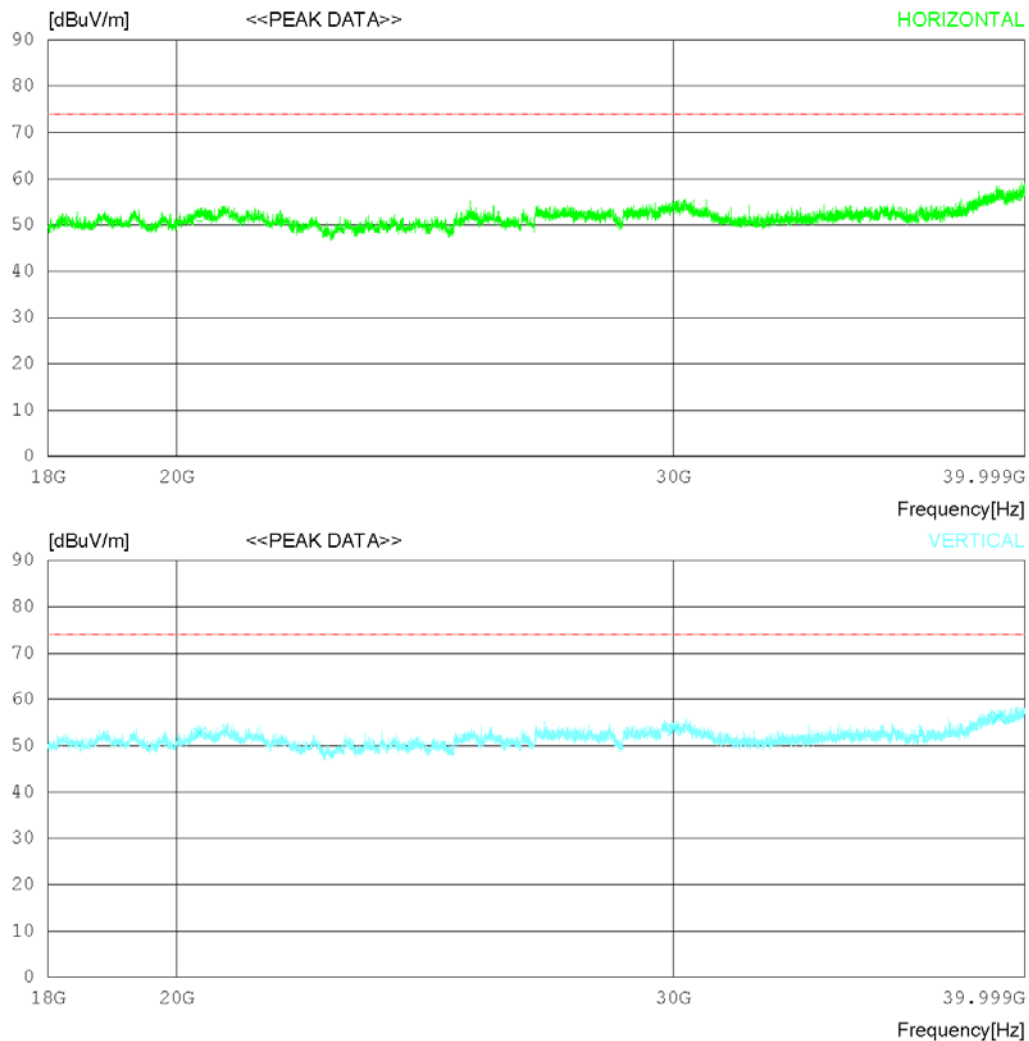
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20370.5	40	45.37	19.71	53.17	0	51.91	74	22.09	Hori	213	0
2	30031.25	36.1	47.5	22.33	52.2	0	53.73	74	20.27	Hori	223	0
3	39147.5	35	47.8	25.91	52.24	0	56.47	74	17.53	Hori	256	90
4	20370.5	40.7	45.37	19.71	53.17	0	52.61	74	21.39	Vert	131	358
5	30031.25	35.8	47.5	22.33	52.2	0	53.43	74	20.57	Vert	231	16
6	39147.5	34.8	47.8	25.91	52.24	0	56.27	74	17.73	Vert	113	241

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	120	Test Frequency (Hz)	60

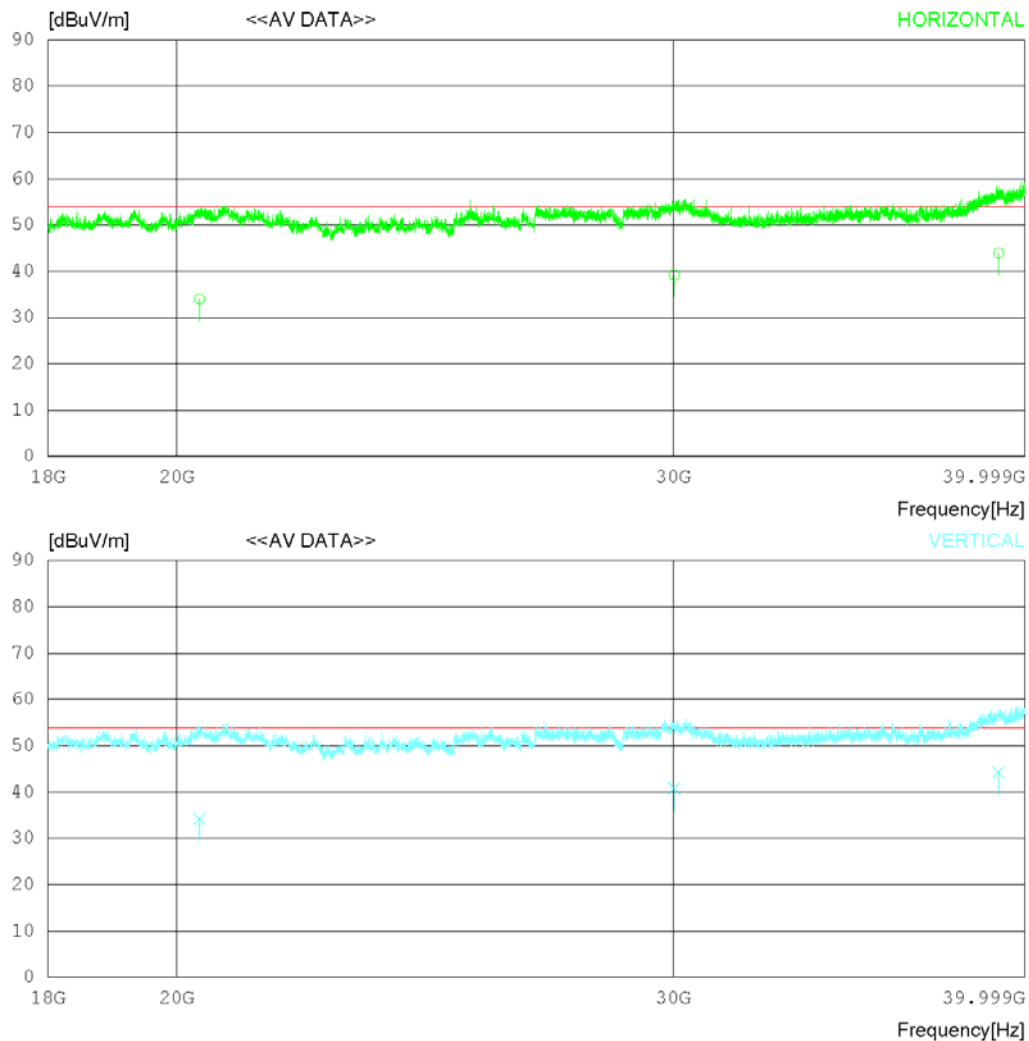
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition PC LINK

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20370.54	22.13	45.37	19.71	53.17	0	34.04	54	19.97	Hori	121	12
2	20370.57	22.36	45.37	19.71	53.17	0	34.27	54	19.73	Vert	120	358
3	30031.21	21.58	47.5	22.33	52.2	0	39.21	54	14.79	Hori	322	223
4	30031.3	23.15	47.5	22.33	52.2	0	40.78	54	13.22	Vert	223	16
5	39147.79	22.87	47.8	25.91	52.24	0	44.34	54	9.66	Vert	131	241
6	39147.57	22.47	47.8	25.91	52.24	0	43.94	54	10.06	Hori	242	90

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

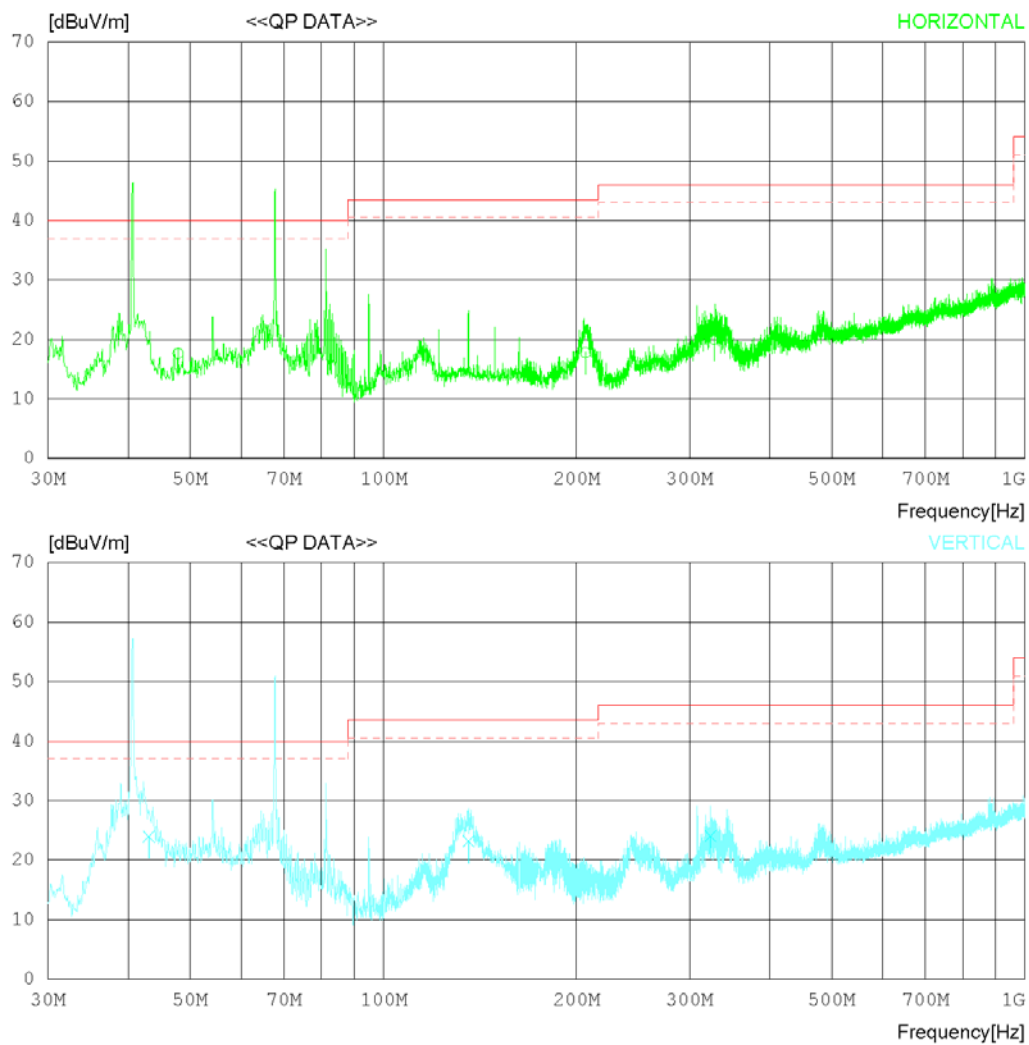
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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



* Remark : 40.68 MHz, 54.24 MHz, 67.8 MHz, 81.36 MHz, 94.92 MHz are NFC harmonic frequency.

RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

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	47.824	25.62	17.90	0.72	26.61	17.63	40.00	22.37	224	78
2	206.657	26.60	16.33	1.49	26.63	17.79	43.50	25.71	223	110
3	327.782	24.54	19.76	2.26	26.53	20.03	46.00	25.97	133	305
----- Vertical -----										
4	43.095	32.25	17.60	0.70	26.59	23.96	40.00	16.04	112	78
5	135.849	30.25	18.41	1.31	26.78	23.19	43.50	20.31	322	110
6	323.660	28.63	19.67	2.31	26.53	24.08	46.00	21.92	255	23

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

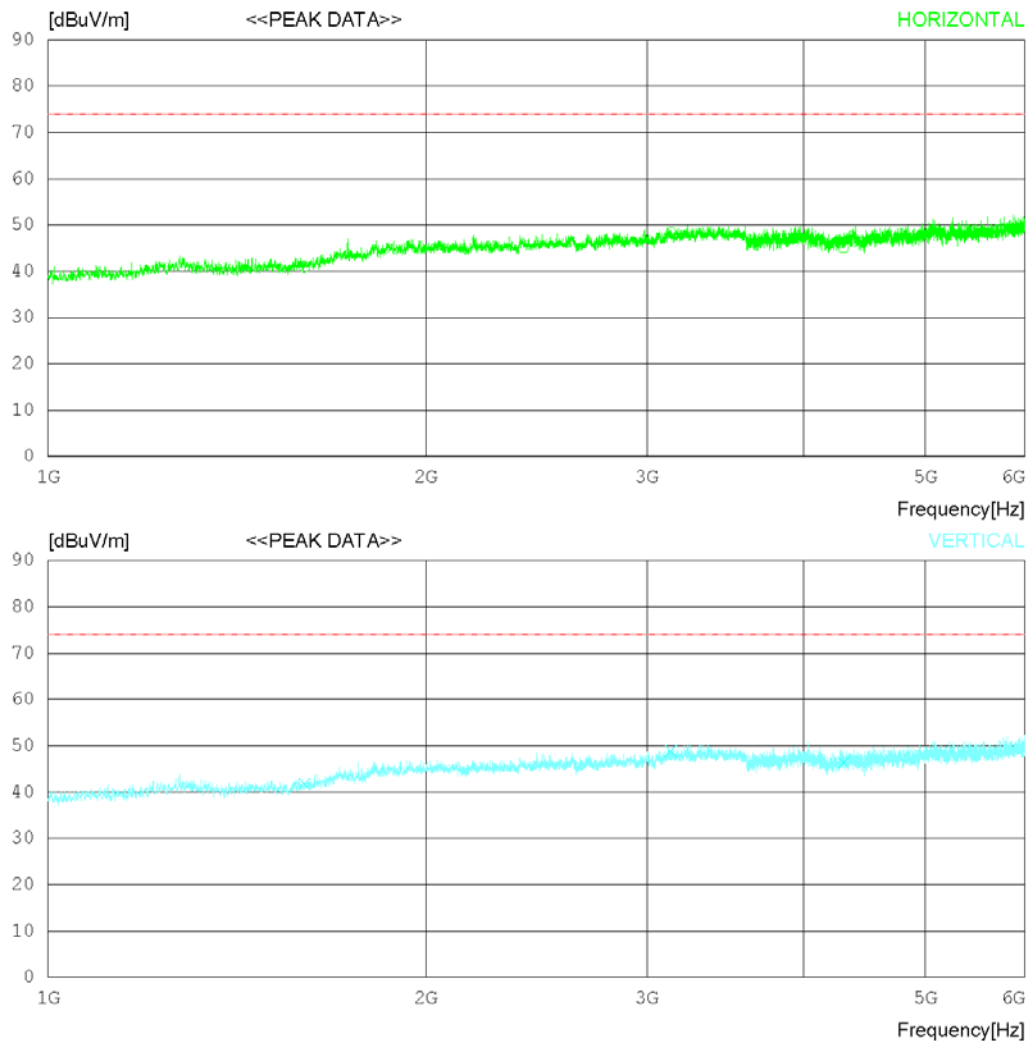
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1600.625	41.7	27.71	7.05	35.54	0	40.92	74	33.08	Hori	123	358
2	3135	42.3	33.1	8.17	35.13	0	48.44	74	25.56	Hori	352	358
3	4303.125	37.1	33.6	9.2	34.82	0	45.08	74	28.92	Hori	231	44
4	1600.625	42.5	27.71	7.05	35.54	0	41.72	74	32.28	Vert	322	236
5	3135	42.7	33.1	8.17	35.13	0	48.84	74	25.16	Vert	211	0
6	4303.125	38.4	33.6	9.2	34.82	0	46.38	74	27.62	Vert	122	0

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

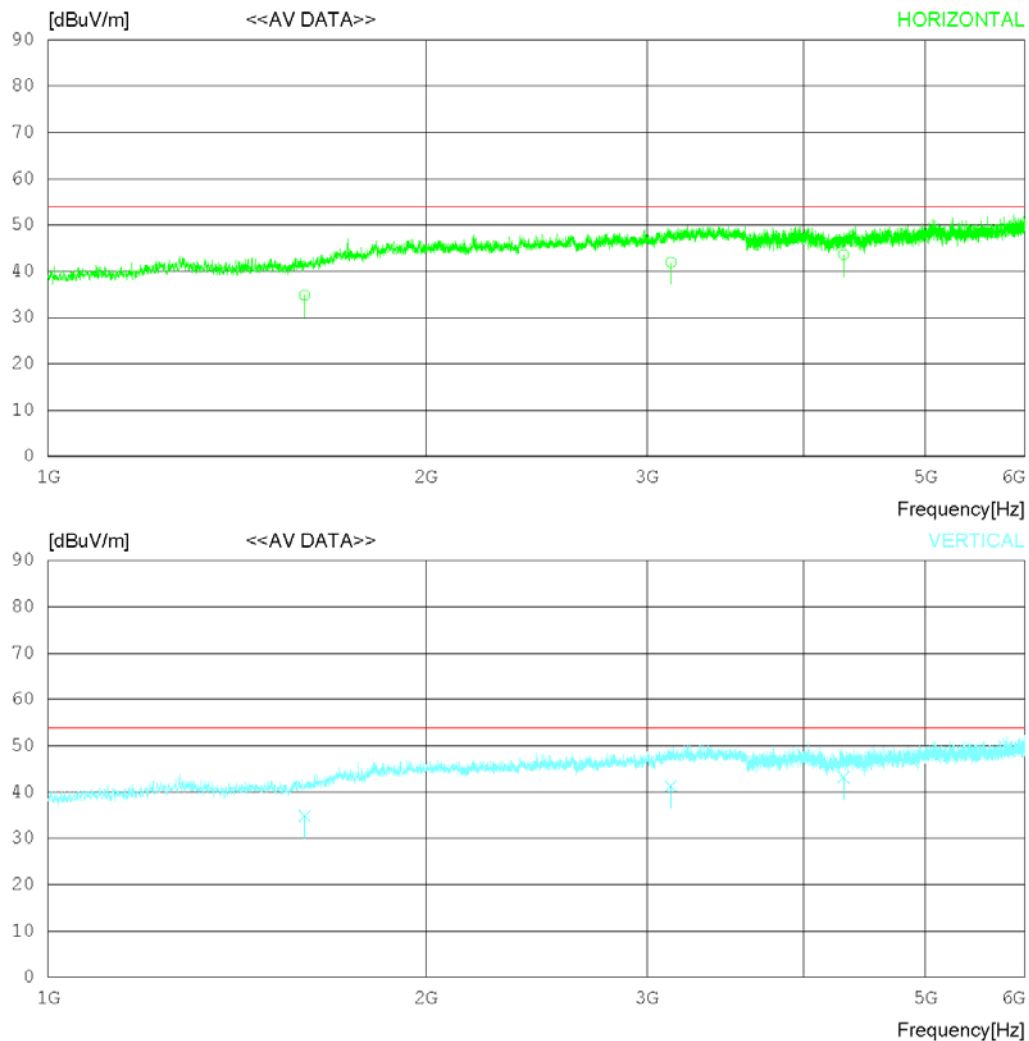
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1600.412	35.63	27.71	7.05	35.54	0	34.85	54	19.15	Hori	123	78
2	1600.612	35.63	27.71	7.05	35.54	0	34.85	54	19.15	Vert	235	78
3	3135.011	35.77	33.1	8.17	35.13	0	41.91	54	12.09	Hori	322	110
4	3135	35.15	33.1	8.17	35.13	0	41.29	54	12.71	Vert	113	110
5	4303.165	35.63	33.6	9.2	34.82	0	43.61	54	10.39	Hori	242	305
6	4303.125	35.21	33.6	9.2	34.82	0	43.19	54	10.81	Vert	121	305

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

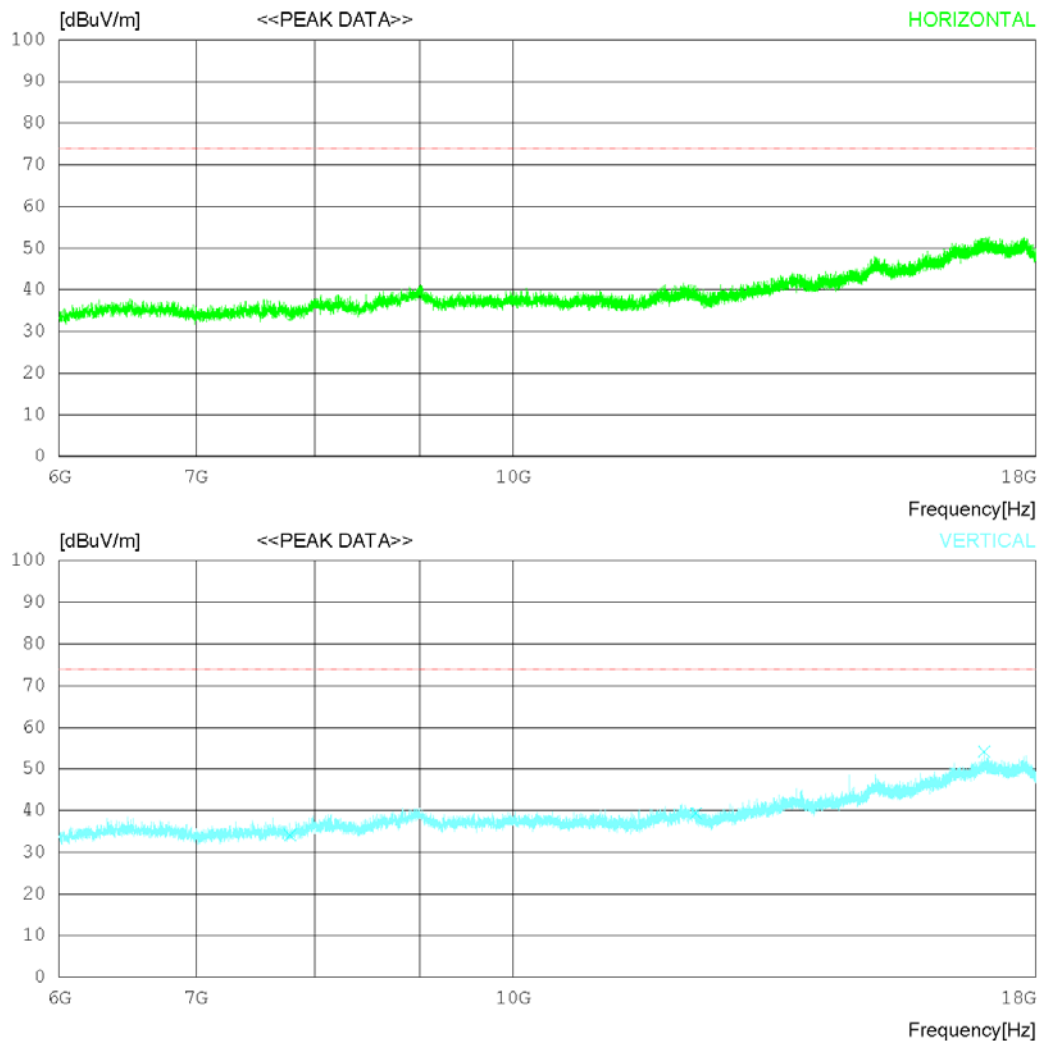
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	7782	28.4	31.33	12.08	37.81	0	34	74	40	Hori	223	0
2	12280.5	27.5	33.49	15.65	38.09	0	38.55	74	35.45	Hori	147	358
3	16982.25	26.2	37.53	23.66	36.39	0	51	74	23	Hori	112	190
4	7782	28.5	31.33	12.08	37.81	0	34.1	74	39.9	Vert	213	0
5	12280.5	28.3	33.49	15.65	38.09	0	39.35	74	34.65	Vert	113	358
6	16982.25	29.3	37.53	23.66	36.39	0	54.1	74	19.9	Vert	305	358

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

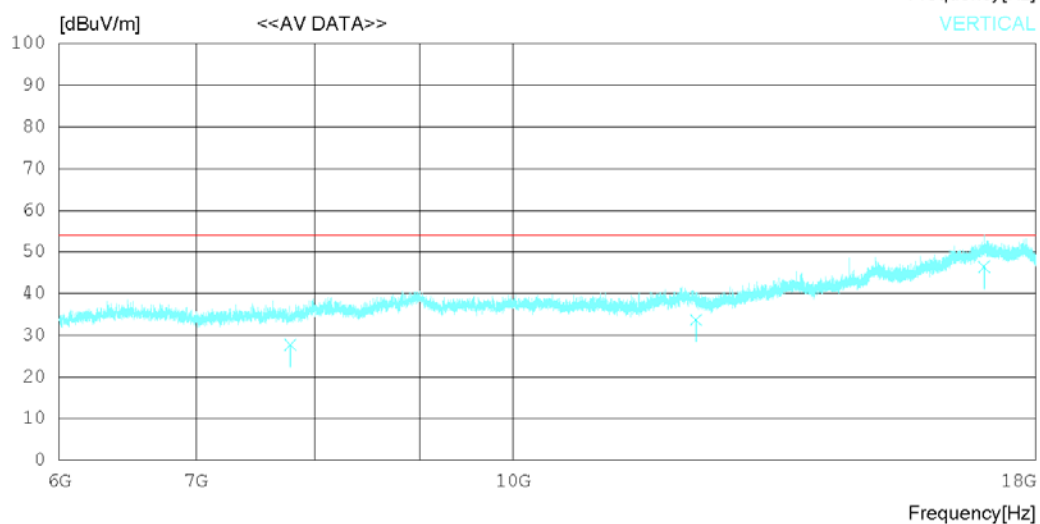
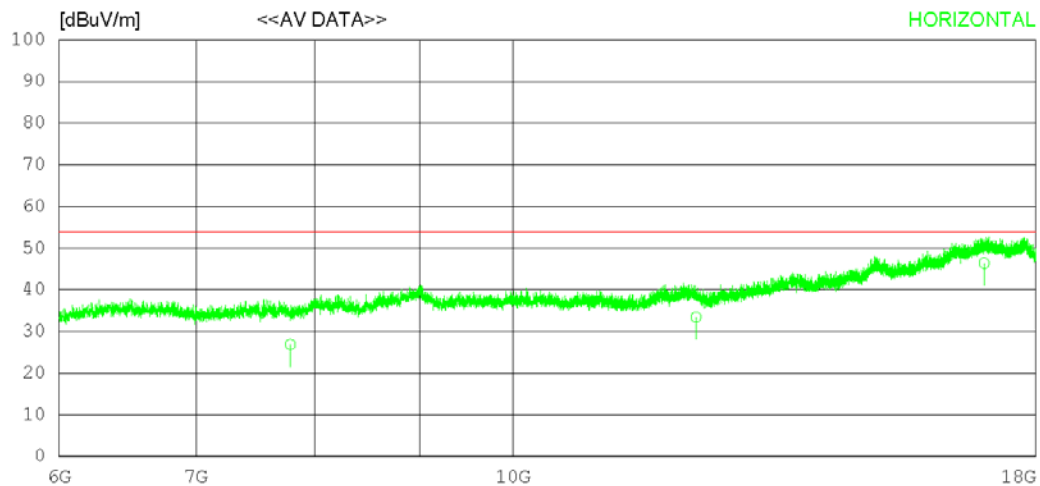
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	7782.12	21.26	31.33	12.08	37.81	0	26.86	54	27.14	Hori	235	78
2	7782.411	22.12	31.33	12.07	37.81	0	27.71	54	26.29	Vert	325	78
3	12280.57	22.37	33.49	15.65	38.09	0	33.42	54	20.59	Hori	113	110
4	12280.43	22.63	33.49	15.65	38.09	0	33.68	54	20.32	Vert	112	110
5	16982.21	21.62	37.53	23.66	36.39	0	46.42	54	7.58	Vert	302	325
6	16982.21	21.58	37.53	23.66	36.39	0	46.38	54	7.62	Hori	242	353

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

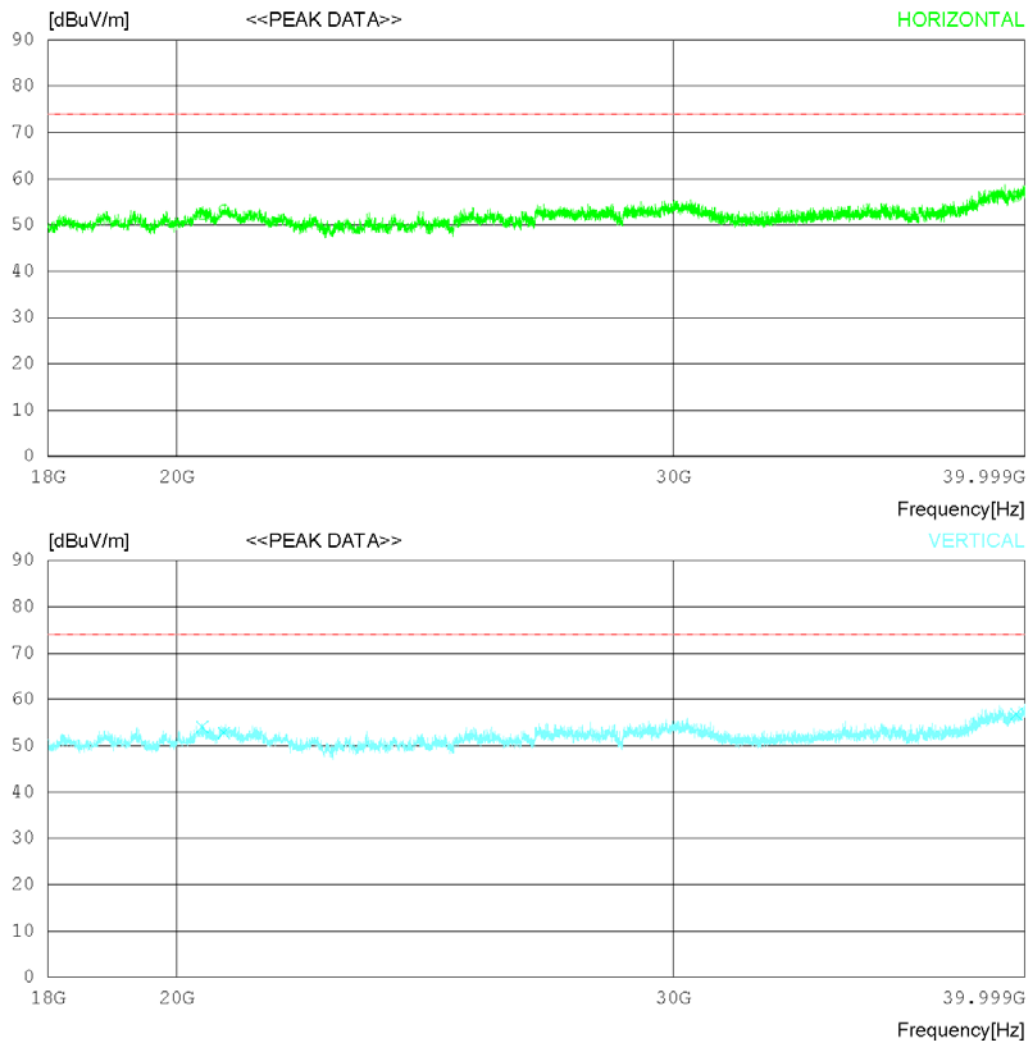
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20420	40.2	45.4	19.81	53.19	0	52.22	74	21.78	Hori	121	0
2	20783	40.6	45.58	20.46	53.35	0	53.29	74	20.71	Hori	305	0
3	39725	34.4	48.75	25.22	52.21	0	56.16	74	17.84	Hori	325	110
4	20420	42.1	45.4	19.81	53.19	0	54.12	74	19.88	Vert	223	358
5	20783	40.1	45.58	20.46	53.35	0	52.79	74	21.21	Vert	123	78
6	39725	35.1	48.75	25.22	52.21	0	56.86	74	17.14	Vert	225	305

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60

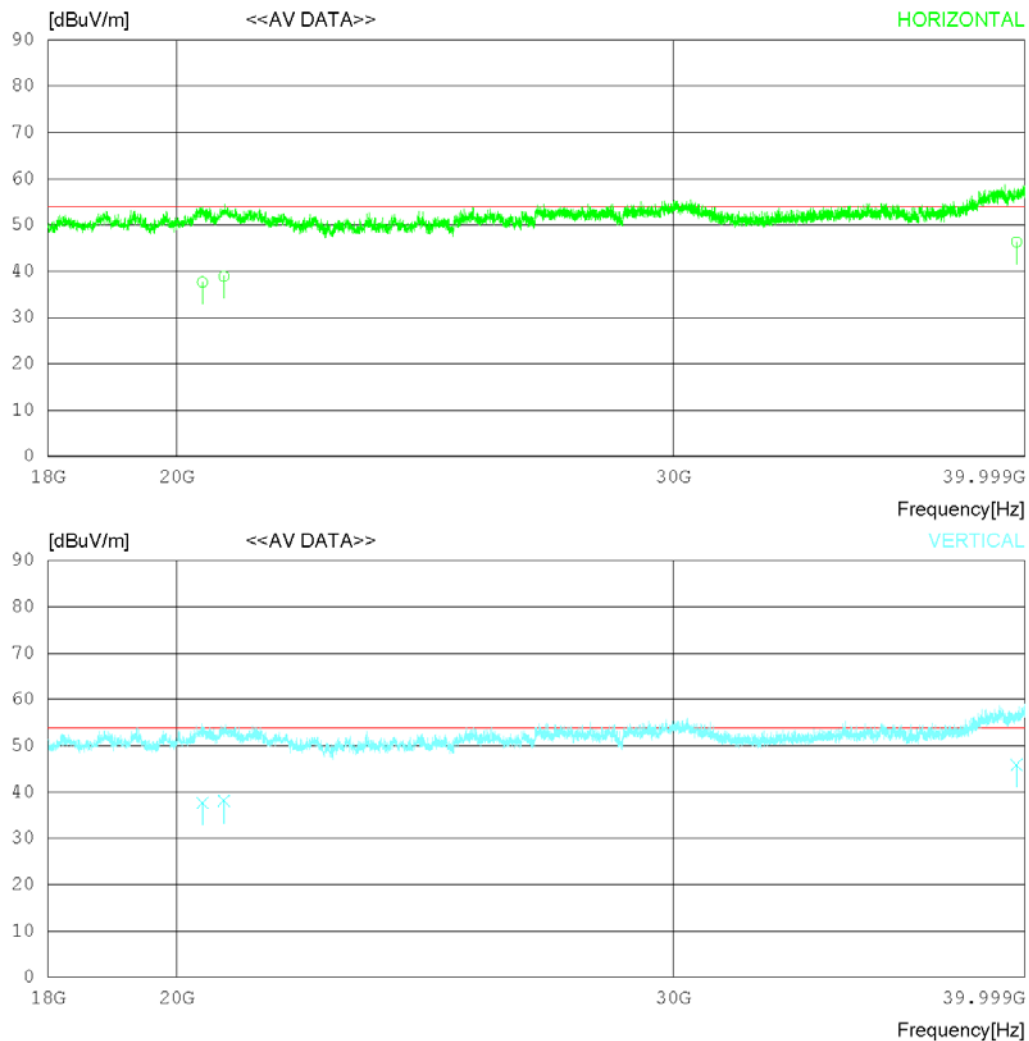
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 45 % R.H.
Test Condition Wireless Charging

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20420.21	25.63	45.4	19.81	53.19	0	37.65	54	16.35	Hori	121	78
2	20420.01	25.66	45.4	19.81	53.19	0	37.68	54	16.32	Vert	123	78
3	20783.62	26.22	45.58	20.46	53.35	0	38.91	54	15.09	Hori	305	112
4	20783.07	25.42	45.58	20.46	53.35	0	38.11	54	15.89	Vert	322	110
5	39725.75	24.57	48.75	25.22	52.21	0	46.33	54	7.67	Hori	112	23
6	39725.75	24.12	48.75	25.22	52.21	0	45.88	54	8.12	Vert	242	322

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

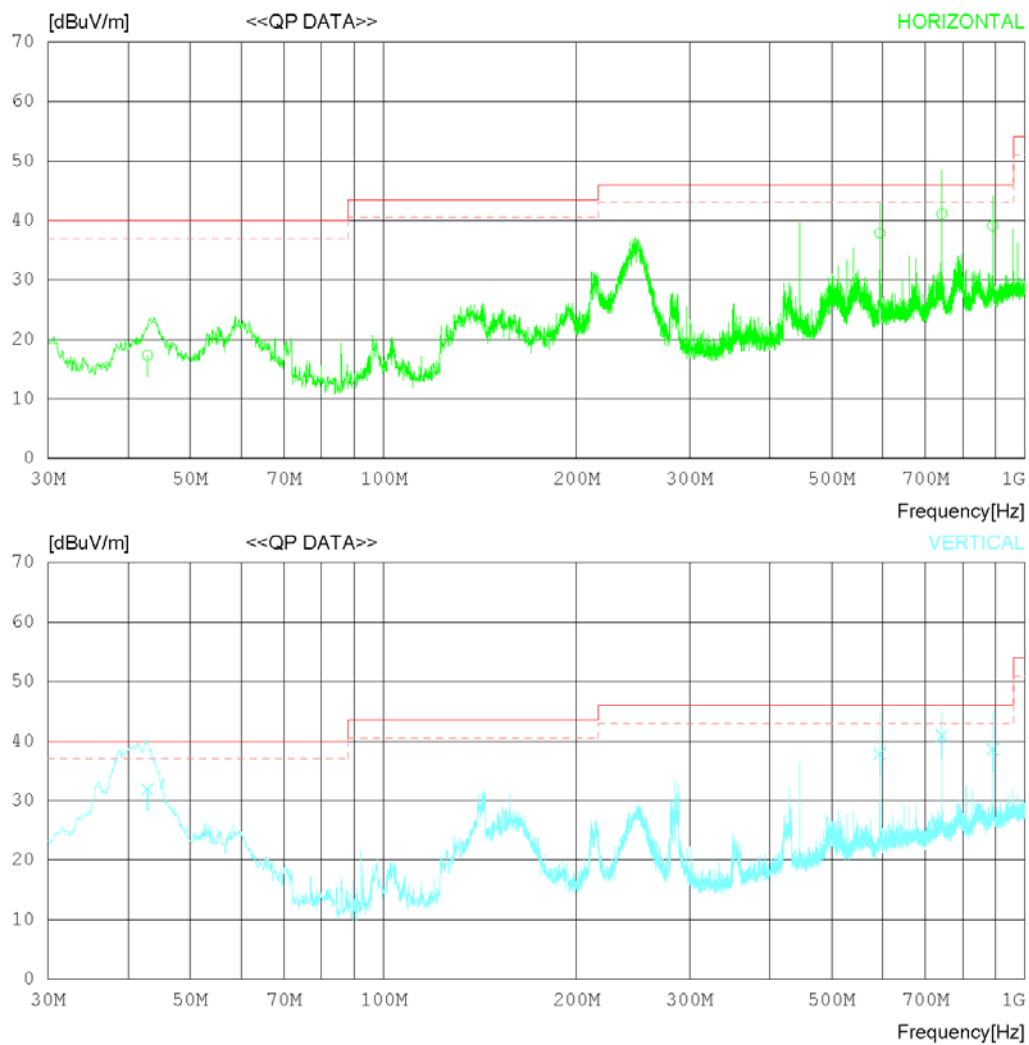
RADIATED EMISSION

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 21 'C 40 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-02

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 21 °C 40 % R.H.
Test Condition DISPLAY

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	42.853	25.65	17.59	0.69	26.58	17.35	40.00	22.65	100	129
2	594.060	35.55	25.78	2.86	26.31	37.88	46.00	8.12	123	120
3	742.503	35.77	28.18	3.25	26.14	41.06	46.00	4.94	223	223
4	891.188	32.72	29.30	3.61	26.50	39.13	46.00	6.87	112	45
----- Vertical -----										
5	42.853	40.22	17.59	0.69	26.58	31.92	40.00	8.08	122	78
6	594.060	35.50	25.78	2.86	26.31	37.83	46.00	8.17	223	147
7	742.503	35.62	28.18	3.25	26.14	40.91	46.00	5.09	195	66
8	891.188	32.22	29.30	3.61	26.50	38.63	46.00	7.37	332	10

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

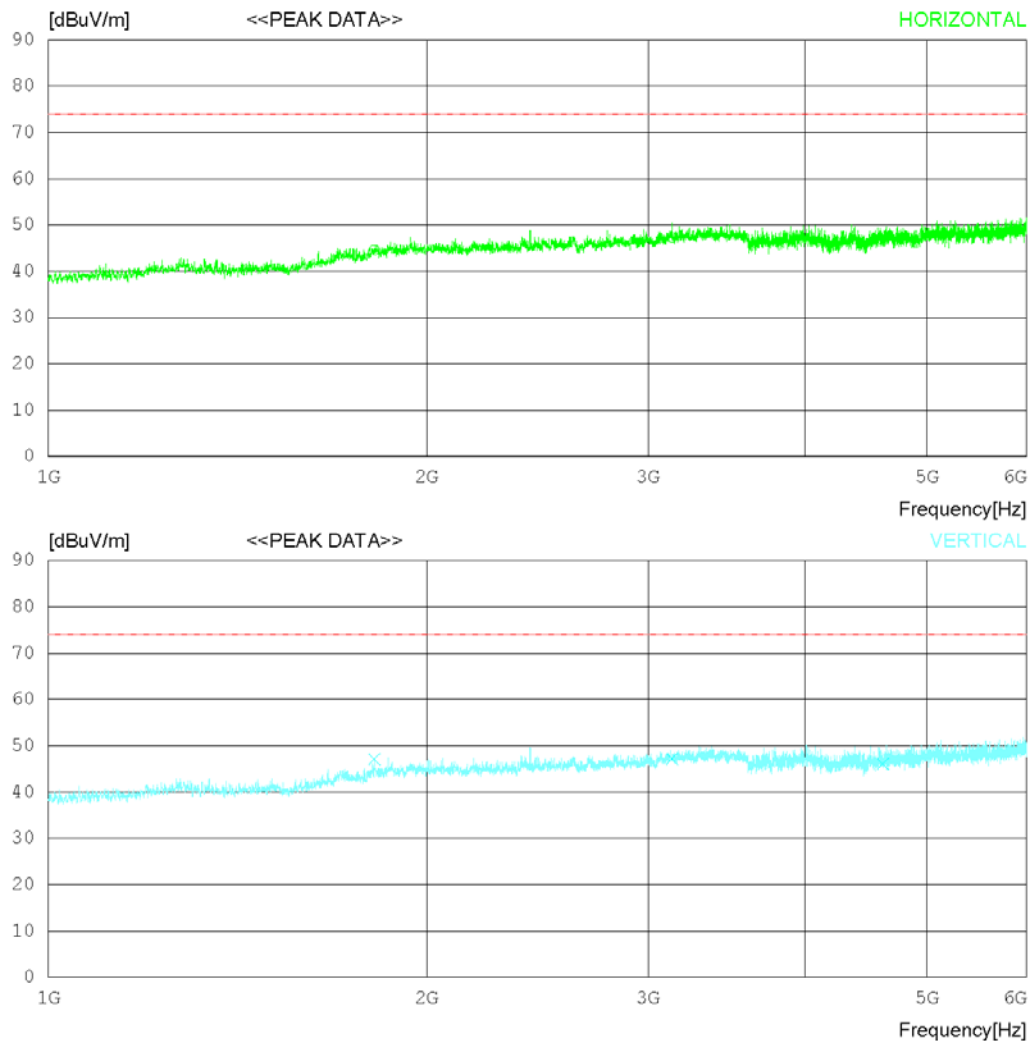
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 °C 45 % R.H.
Test Condition DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1817.5	42.4	30.48	7.03	35.3	0	44.61	74	29.39	Hori	122	0
2	3135	41.2	33.1	8.17	35.13	0	47.34	74	26.66	Hori	124	184
3	4611.875	37.9	34	9.74	34.94	0	46.7	74	27.3	Hori	231	0
4	1817.5	44.9	30.48	7.03	35.3	0	47.11	74	26.89	Vert	322	358
5	3135	41	33.1	8.17	35.13	0	47.14	74	26.86	Vert	213	358
6	4611.875	37.3	34	9.74	34.94	0	46.1	74	27.9	Vert	305	358

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

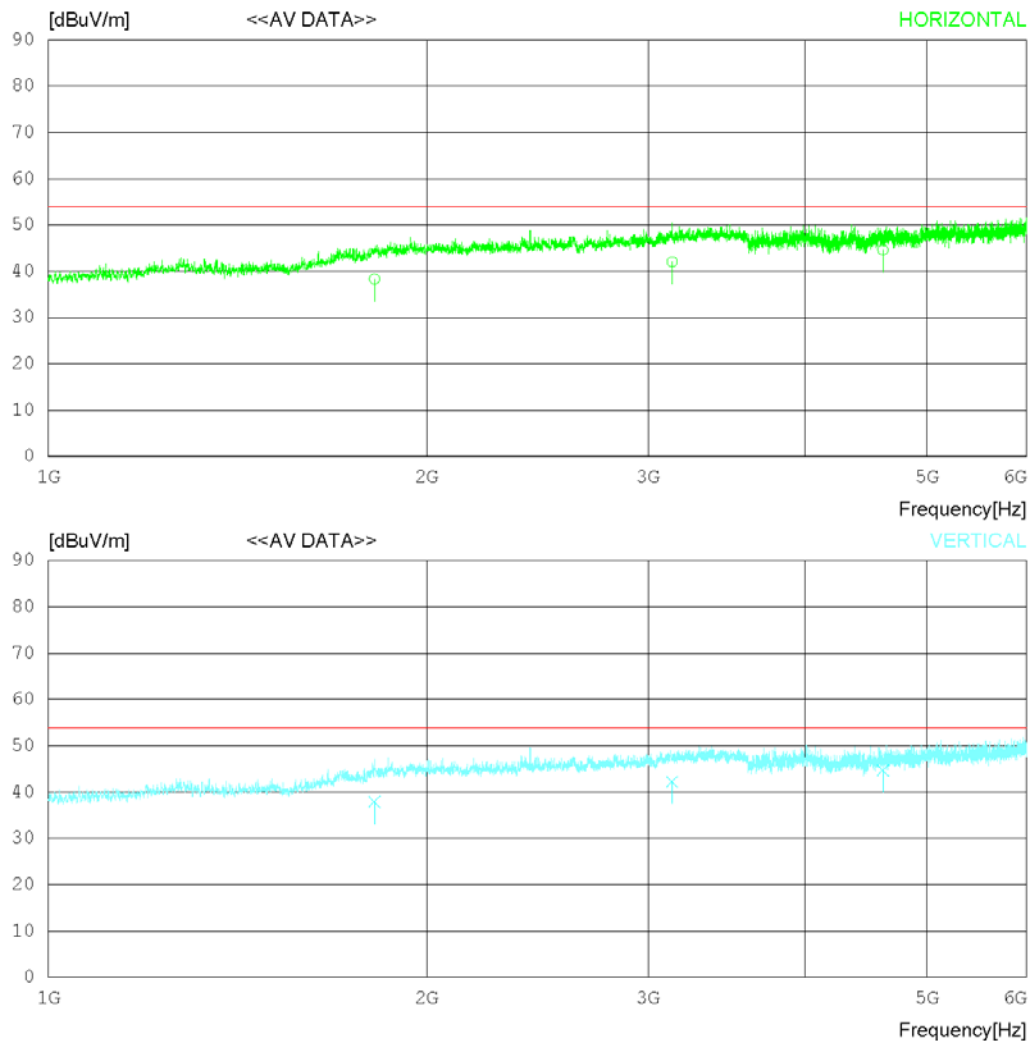
RADIATED EMISSION

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Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



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Power Supply Battery
Temp/Humi 23 °C 45 % R.H.
Test Condition DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	1817.511	36.12	30.48	7.03	35.3	0	38.33	54	15.67	Hori	231	78
2	1817.504	35.66	30.48	7.03	35.3	0	37.87	54	16.13	Vert	232	78
3	3135.023	35.87	33.1	8.17	35.13	0	42.01	54	11.99	Hori	122	112
4	3135.655	36.12	33.1	8.17	35.13	0	42.26	54	11.74	Vert	113	110
5	4611.866	35.77	34	9.74	34.94	0	44.57	54	9.43	Hori	322	305
6	4611.811	35.87	34	9.74	34.94	0	44.67	54	9.33	Vert	124	325

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

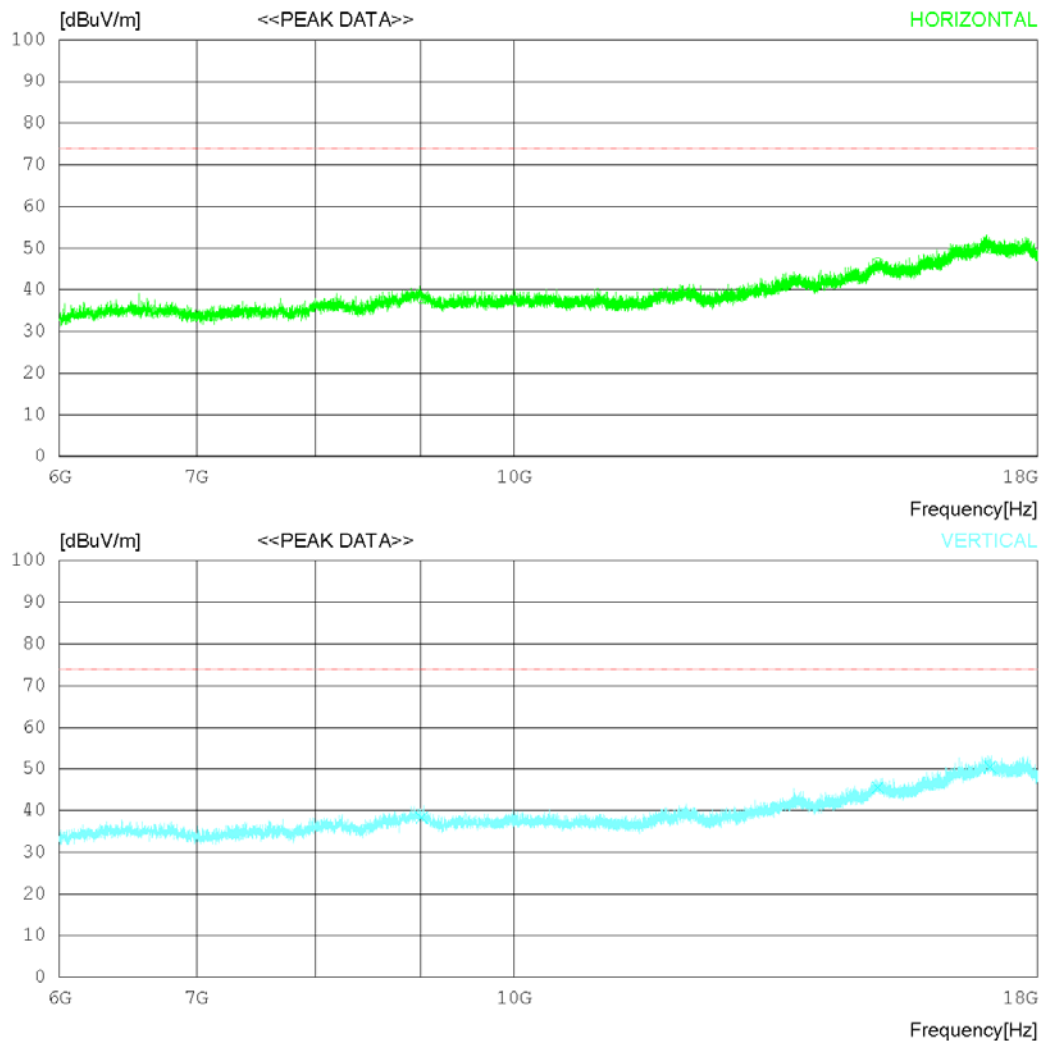
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 °C 45 % R.H.
Test Condition DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	9015.75	28	32.11	15.35	37.51	0	37.95	74	36.05	Hori	122	2
2	15039.75	27.3	35.49	20.61	36.97	0	46.43	74	27.57	Hori	112	358
3	17065.5	25.6	37.6	23.29	36.48	0	50.01	74	23.99	Hori	366	358
4	9015.75	28.4	32.11	15.35	37.51	0	38.35	74	35.65	Vert	305	301
5	15039.75	26.4	35.49	20.61	36.97	0	45.53	74	28.47	Vert	232	358
6	17065.5	26.1	37.6	23.29	36.48	0	50.51	74	23.49	Vert	235	226

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

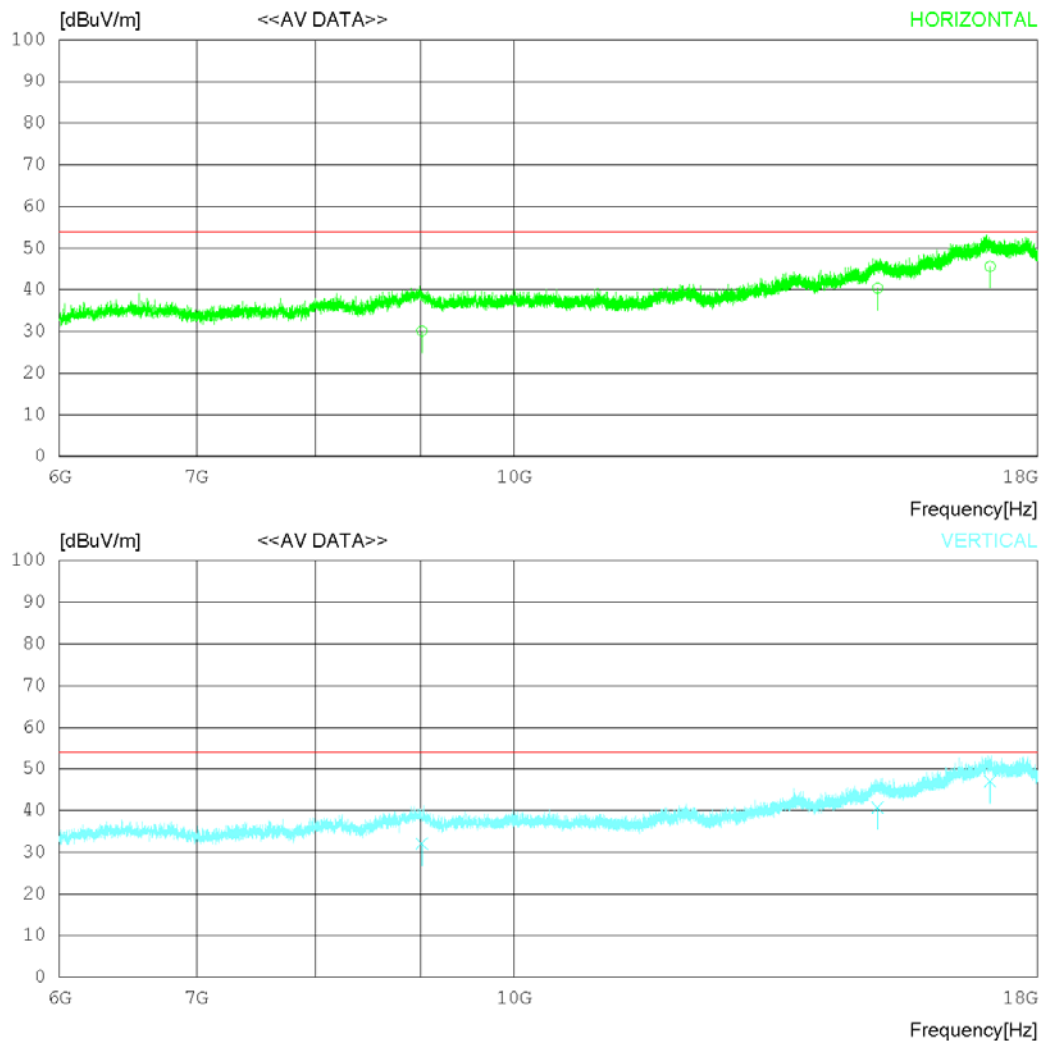
RADIATED EMISSION

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Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-01

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Test Condition DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	9015.711	20.16	32.11	15.35	37.51	0	30.11	54	23.89	Hori	353	2
2	9015.742	22.17	32.11	15.35	37.51	0	32.12	54	21.88	Vert	353	113
3	15039.66	21.25	35.49	20.61	36.97	0	40.38	54	13.62	Hori	112	358
4	15039.66	21.63	35.49	20.61	36.97	0	40.76	54	13.24	Vert	112	305
5	17065.54	22.62	37.6	23.29	36.48	0	47.03	54	6.97	Vert	278	222
6	17065.5	21.22	37.6	23.29	36.48	0	45.63	54	8.37	Hori	241	358

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

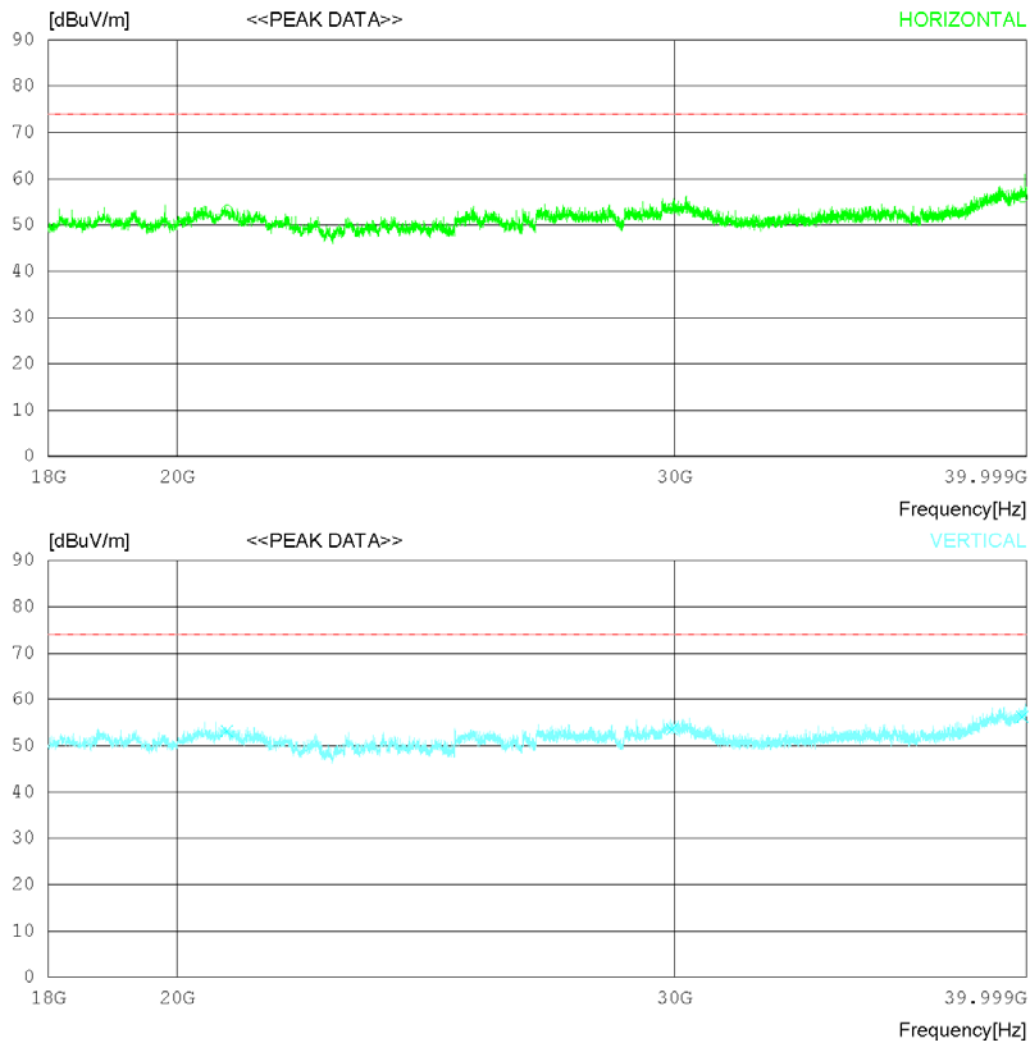
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 °C 45 % R.H.
Test Condition DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20829.75	40.4	45.6	20.54	53.37	0	53.17	74	20.83	Hori	112	57
2	29948.75	35.9	47.5	22.34	52.22	0	53.52	74	20.48	Hori	112	323
3	39862.5	34.1	49.03	25.07	52.21	0	55.99	74	18.01	Hori	305	0
4	20829.75	40.4	45.6	20.54	53.37	0	53.17	74	20.83	Vert	222	358
5	29948.75	35.9	47.5	22.34	52.22	0	53.52	74	20.48	Vert	134	358
6	39862.5	34.4	49.03	25.07	52.21	0	56.29	74	17.71	Vert	223	351

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	Battery	Test Frequency (Hz)	-

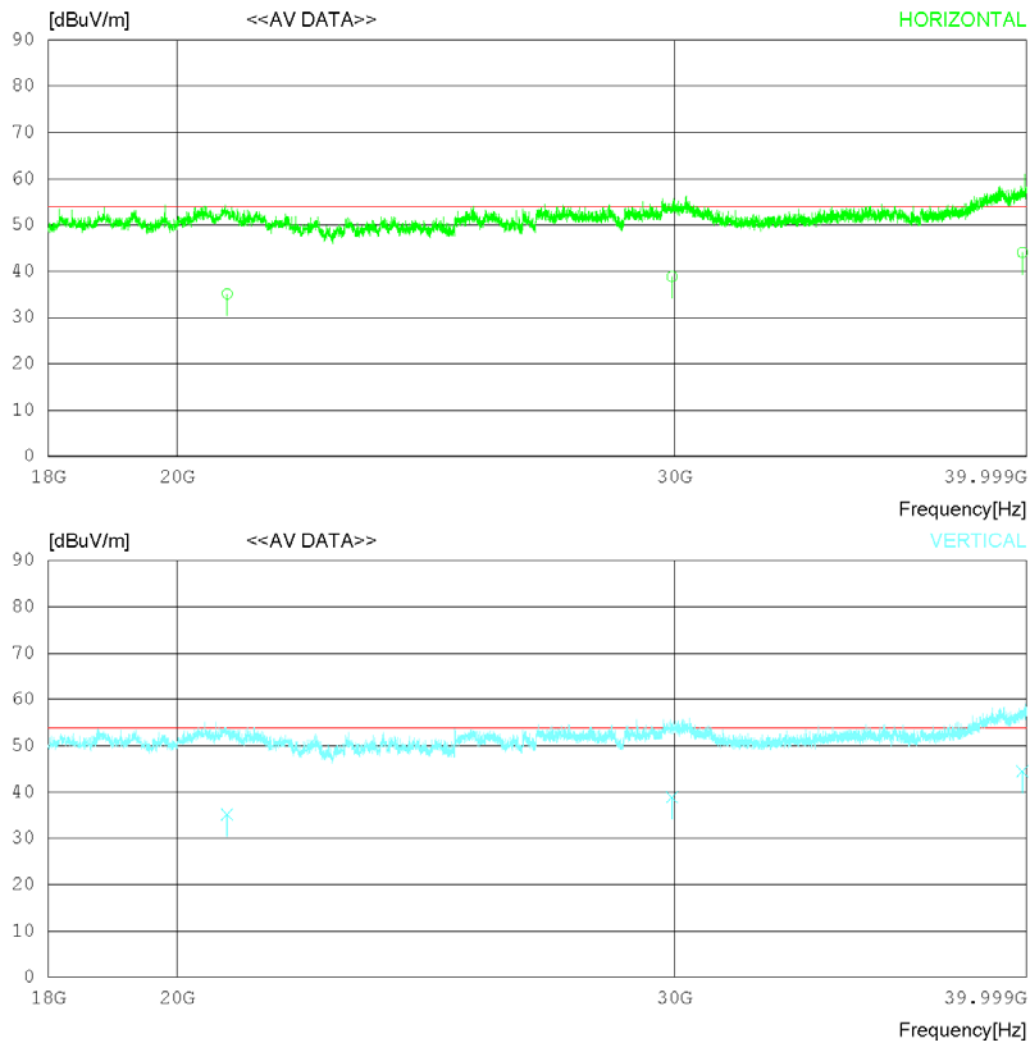
RADIATED EMISSION

Date 2020-09-01

Order No. DTNC2008-06641
Power Supply Battery
Temp/Humi 23 'C 45 % R.H.
Test Condition DISPLAY

Memo

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



RADIATED EMISSION

Date 2020-09-01

Order No.	DTNC2008-06641
Power Supply	Battery
Temp/Humi	23 °C 45 % R.H.
Test Condition	DISPLAY

Memo

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

No	Freq	Reading	Ant.Fac	Loss	Gain	Site.Fac	Result	Limit	Margin	Pola	Height	Angle
1	20829.18	22.35	45.6	20.54	53.37	0	35.12	54	18.88	Hori	124	78
2	20829.71	22.36	45.6	20.54	53.37	0	35.13	54	18.87	Vert	121	78
3	29948.65	21.25	47.5	22.34	52.22	0	38.87	54	15.13	Hori	223	110
4	29948.77	21.25	47.5	22.34	52.22	0	38.87	54	15.13	Vert	223	110
5	39862.54	22.17	49.03	25.07	52.21	0	44.06	54	9.94	Hori	305	353
6	39862.45	22.63	49.02	25.07	52.21	0	44.51	54	9.49	Vert	305	35

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
Sep. 08. 2020	Initial report	JunSeo Park	KyoungHwan Bae

-End of test report-