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.: DREFCC2002-0055(2)

2. Client / Applicant

· Name : LG Electronics USA, Inc.

· Address: 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632

3. Use of Report: FCC Supplier's Declaration of Conformity

4. Product Name / Test Model Name : Mobile Phone / LM-V600V

5. Test Standard: CAN/CSA CISPR 22-10

ICES-003 : 2016 ANSI C63.4:2014 FCC Part 15 Subpart B

(Other Class B digital devices & peripherals)

6. Date of Test: Jan. 14. 2020 ~ Jan. 18. 2020

7. Testing Environment: Temperature (19 ~ 22) °C, Humidity (40 ~ 45) % R.H.

8. Test Result: Refer to the attached Test Result

Affirmation Tested by

Name : TaeHyun Choi

Reviewed by

Name : KyoungHwan Bae

The test results presented in this test report aré 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.

Feb. 13, 2020

DT&C Co., Ltd.

'This test report is not related to 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.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
	Korea	KOLAS	393	ISO/IEC 17025
Accreditation	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23 rd ,Oct,2018	-
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
Cito Filing	Canada	IC	5740A-3 5740A-4	Registered
Site Filing	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
	Korea	KC	KR0034	Designation
Certification	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. 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
Manufacturer	LG Electronics USA, Inc. 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
Factory	LG Electronics USA, Inc. 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
Product Name	Mobile Phone
Model Name	LM-V600V
Add Model Name(FCC)	LMV600V, V600V
Add Model Name(IC)	NA
IC ID	2703C-V600V
Rated Power	DC 3.87 V
Remarks	None

* Accessory

Equipment	No.	Manufacturer	Model Name	Product Number
Ear-Mic	1	CRESYN	EMB-LGE53	EAB63728251
Data Cable	1	Ningbo	LG0179	EAD65830102
T.A	1	SUNLINI	MCS-P02WR	EAY65749201
USB C/A Gender	1	KSD	N/A	EBX64329001
Dual Screen	1	LG Electronics	LM-V605N	LM-V605N

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	FORNT CAMERA+MP3	EUT is playing MP3 PLAY while recording video with the front camera.
2	REAR CAMERA	EUT is recording video with rear camera
3	IDLE	EUT is Tested on standby
4	TOF	ToF Camera in continuous shooting mode
5	TOF + Dual Screen	ToF Camera in continuous shooting mode Note: TOF mode is worst in RE BELOW 1GHz test among FRONT Camera + MP3, REAR Camera, IDLE, and TOF Test in Dual Screen mode with TOF Camera

4.3 Test Configuration Mode

No.	Mode	Description
1	FORNT CAMERA+MP3	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones
2	REAR CAMERA	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones
3	IDLE	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones
4	TOF	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones
5	TOF + Dual Screen	The EUT is connected to Dual Screen Dual Screen is connected to USB C/A Gender USB C/A Gender is connected to Travel Adapter The EUT is connected to Earphones

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks		
AE	-	-	-	-		
*Abbreviations: AE - Auxiliary/Associated Equipment, or						

SIM - Simulator

4.5 EUT In/Output Port

(MODE 1, 2, 3, 4)

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	1.5	Shield	Plastic	EUT

*Abbreviations:

AC = AC Power Port

DC = DC Power Port

N/E = Non-Electrical

I/O = Signal Input or Output PortTP = Telecommunication Ports

(MODE 5)

Name	Type*	Cable	Cable	Cable	Remarks
	1,700	Max. >3 m	Shielded	Back shell	
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	-	-	Plastic	Dual Screen
PIN	I/O	-	-	Plastic	USB C/A Gender
USB	I/O	1.5	Non shield	Plastic	Adapter

*Abbreviations:

AC = AC Power Port

DC = DC Power Port

N/E = Non-Electrical

I/O = Signal Input or Output PortTP = 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 ICES-003 : 2016 ANSI C63.4:2014	С
Radiated Disturbance	CAN/CSA CISPR 22-10 ICES-003 : 2016 ANSI C63.4:2014	С
C=Comply N/C=Not Comply	y 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]
0.18872	L1	48.53	Quasi - Peak	64.09	15.56

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
43.823	V	35.72	Quasi - Peak	40.00	4.28

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2020-01-15	21	42	100.7
Radiated Disturbance	2020-01-14 2020-01-16 2020-01-17 2020-01-17 2020-01-18 2020-01-18	20 19 21 20 22 22	45 40 43 45 45 43	-

7. Test Results: Emission

7.1 Conducted Disturbance

CAN/CSA CISPR 22 ANSI C63.4	2	Result					
Method: 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.							
Fully configured sam		Frequency range on each si	de of line	Measure	ement Point		
er the following fre	equency range	150 kHz to 30 MHz		Mains			
EUT mo	ode	Test configuration mode		1, 2	, 3, 4, 5		
(Refer to cla	uses 4)	EUT Operation mode 1, 2			2, 3, 4, 5		
		Limits - Class A					
Frequency (MHz)		Limit	dΒμV				
Frequency (Winz)		Quasi-Peak		Average	•		
0.15 to 0.50		79		66			
0.50 to 30		73		60			
		Limits – Class B					
Erogueney (MU=)	Limit dBμV						
Frequency (MHz)		Quasi-Peak Average		•			
0.15 to 0.50							
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)	2.44 dB
The measurement uncertainties were calculated in accordance	e with requirements of ANSI C 63.4-2014.

Measurement Instrument								
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due			
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A			
EMI TEST RECEIVER	ESR	ROHDE&SCHWARZ	101767	2019.12.17	2020.12.17			
TWO-LINE V-NETWORK	ENV216	ROHDE&SCHWARZ	101979	2019.12.06	2020.12.06			
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2019.08.30	2020.08.30			

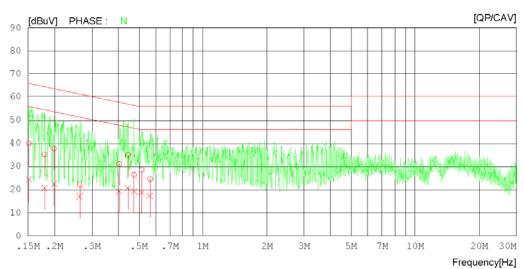


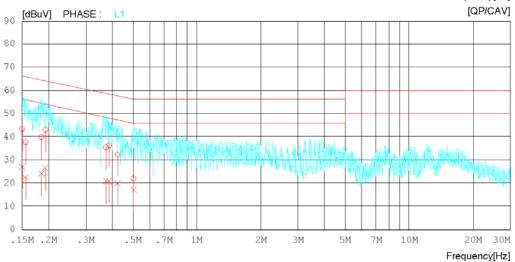
Mains terminal disturbance voltage _Measurement data							
Test configuration mode 1 EUT Operation mode 1							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa Front Camera + MP3 Mode

Memo







DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa Front Camera + MP3 Mode

NO	FREQ	READING OP CAV	C.FACTOR	RESULT QP CAV	LIM QP	IT CAV	MARGIN QP CAV	PHASE
	[MHz]	[dBuV] [dBuV]] [dB]	[dBuV] [dBuV]		[dBuV]		
1	0.15126	20.08 4.36	19.93	40.01 24.29	65.93	55.93	25.92 31.64	N
2	0.17943	15.02 0.61	20.14	35.16 20.75	64.51	54.51	29.35 33.76	N
3	0.19871	17.74 2.48	20.01	37.75 22.49	63.66	53.66	25.91 31.17	N
4	0.26255	2.25 -2.73	19.84	22.09 17.11	61.35	51.35	39.26 34.24	N
5	0.40268	10.92 -0.76	20.18	31.10 19.42	57.80	47.80	26.70 28.38	N
6	0.44366	14.83 0.54	20.20	35.03 20.74	56.99	46.99	21.96 26.25	N
7	0.47445	6.16 -0.81	20.23	26.39 19.42	56.44	46.44	30.05 27.02	N
8	0.51546	8.21 -1.44	20.24	28.45 18.80	56.00	46.00	27.55 27.20	N
9	0.56400	4.36 -2.77	20.24	24.60 17.47	56.00	46.00	31.40 28.53	N
10	0.15000	23.42 7.22	19.91	43.33 27.13	66.00	56.00	22.67 28.87	L1
11	0.15609	17.63 2.54	20.00	37.63 22.54	65.67	55.67	28.04 33.13	L1
12	0.18522	19.73 4.06	20.10	39.83 24.16	64.25	54.25	24.42 30.09	L1
13	0.19350	22.92 6.46	20.04	42.96 26.50	63.88	53.88	20.92 27.38	L1
14	0.37270	15.33 0.75	20.11	35.44 20.86	58.44	48.44	23.00 27.58	L1
15	0.38609	16.14 0.95	20.13	36.27 21.08	58.15	48.15	21.88 27.07	L1
16	0.42306	12.09 -0.07	20.19	32.28 20.12	57.39	47.39	25.11 27.27	L1
17	0.50299	1.84 -3.18	20.24	22.08 17.06	56.00	46.00	33.92 28.94	L1



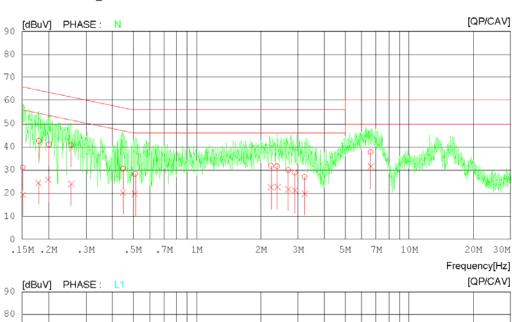
Mains terminal disturbance voltage _Measurement data							
Test configuration mode 2 EUT Operation mode 2							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

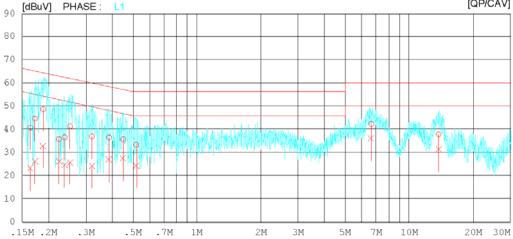
DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa Rear Camera Mode

Memo

LIMIT : CISPR32_B QP CISPR32_B AV





Frequency[Hz]



DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa Rear Camera Mode

Memo

NO	FREQ [MHz]	QP CAV		RESULT QP CAV [dBuV] [dBuV]	QP	CAV	QP CAV	
1	0.15134	11.10 -0.51	19.93	31.03 19.42	65.93	55.93	34.90 36.51	N
2	0.18006	22.42 4.40	20.13	42.55 24.53	64.48	54.48	21.93 29.95	N
3	0.20050	21.05 5.71	20.00	41.05 25.71	63.59	53.59	22.54 27.88	N
4	0.25544	20.88 4.21	19.82	40.70 24.03	61.58	51.58	20.88 27.55	N
5	0.44904	10.40 0.14	20.20	30.60 20.34	56.89	46.89	26.29 26.55	N
6	0.51125	8.07 -0.72	20.24	28.31 19.52	56.00	46.00	27.69 26.48	N
7	2.23560	11.66 2.37	20.10	31.76 22.47	56.00	46.00	24.24 23.53	N
8	2.38920	11.54 2.51	20.12	31.66 22.63	56.00	46.00	24.34 23.37	N
9	2.69200	9.90 1.60	20.11	30.01 21.71	56.00	46.00	25.99 24.29	N
10	2.88720	8.81 0.82	20.09	28.90 20.91	56.00	46.00	27.10 25.09	N
11	3.21760	6.90 -0.26	20.09	26.99 19.83	56.00	46.00	29.01 26.17	N
12	6.57320	17.39 11.06	20.36	37.75 31.42	60.00	50.00	22.25 18.58	N
13	0.16404	20.49 2.93	20.12	40.61 23.05	65.26	55.26	24.65 32.21	L1
14		24.36 5.91		44.55 26.10		54.84	20.29 28.74	L1
15		28.45 12.85			64.09	54.09	15.56 21.16	L1
16		15.82 6.10			62.68	52.68	26.96 26.68	L1
17	0.23822		19.86	36.47 24.53	62.16	52.16	25.69 27.63	L1
18	0.25250		19.82	41.24 25.72		51.67	20.43 25.95	L1
19	0.31991		19.97	36.86 24.03	59.71	49.71	22.85 25.68	L1
20	0.38533		20.13		58.16	48.16	21.70 21.12	L1
21	0.44963		20.20	35.62 27.46		46.88	21.26 19.42	L1
22	0.51704		20.24	33.25 24.32	56.00	46.00	22.75 21.68	L1
23		21.78 15.53				50.00	17.76 14.01	L1
24	13.78600	16.72 10.04	21.09	37.81 31.13	60.00	50.00	22.19 18.87	Ll

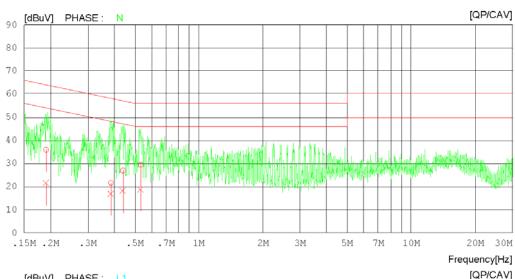


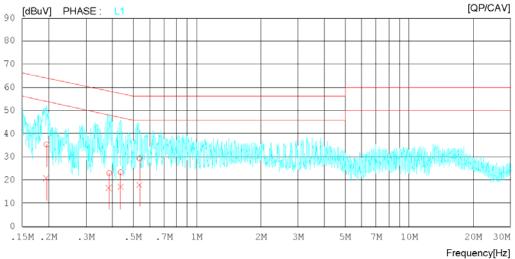
Mains terminal disturbance voltage _Measurement data							
Test configuration mode 3 EUT Operation mode 3							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa IDLE Mode

Memo







DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa IDLE Mode

NO	FREQ [MHz]	READING QP CAV [dBuV][dBuV]	C.FACTOR	RESULT QP CAV [dBuV] [dBuV]	LIMIT QP CAV [dBuV][dBuV]	MARGIN QP CAV [dBuV][dBuV]	PHASE
1	0.19062	15.83 1.36	20.06	35.89 21.42	64.01 54.01	28.12 32.59	N
2	0.38512	1.48 -3.24	20.13	21.61 16.89	58.17 48.17	36.56 31.28	N
3	0.43916	6.72 -2.13	20.20	26.92 18.07	57.08 47.08	30.16 29.01	N
4	0.53228	9.13 -1.42	20.24	29.37 18.82	56.00 46.00	26.63 27.18	N
5	0.19564	15.31 0.82	20.03	35.34 20.85	63.79 53.79	28.45 32.94	L1
6	0.38589	2.90 -3.39	20.13	23.03 16.74	58.15 48.15	35.12 31.41	L1
7	0.43706	3.16 -3.25	20.20	23.36 16.95	57.12 47.12	33.76 30.17	L1
8	0.53715	9.16 -1.98	20.24	29.40 18.26	56.00 46.00	26.60 27.74	L1

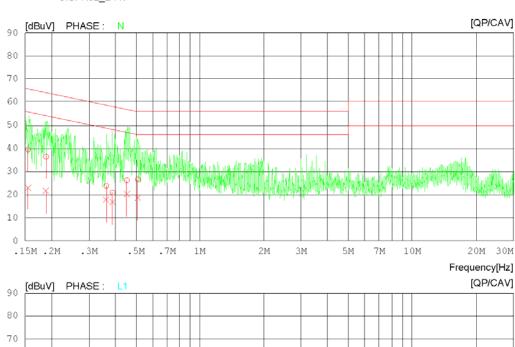


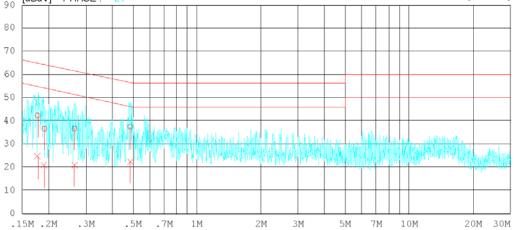
Mains terminal disturbance voltage _Measurement data							
Test configuration mode 4 EUT Operation mode 4							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC2001-00112 3 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa TOF Mode

Memo







DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa TOF Mode

Memo

NO	FREQ	READING OP CAV	C.FACTOR	RESULT OP CAV	LIMIT OP CAV	MARGIN OP CAV	PHASE
	[MHz]	[dBuV] [dBuV]	[dB]	[dBuV] [dBuV]	[dBuV] [dBuV]	[dBuV] [dBuV]	<u> </u>
1	0.15479	19.57 3.22	19.98	39.55 23.20	65.74 55.74	26.19 32.54	N
2	0.18866	16.27 1.51	20.08	36.35 21.59	64.10 54.10	27.75 32.51	N
3	0.36226	3.66 -2.46	20.07	23.73 17.61	58.68 48.68	34.95 31.07	N
4	0.38845	0.77 -3.42	20.15	20.92 16.73	58.10 48.10	37.18 31.37	N
5	0.45302	5.90 -0.18	20.21	26.11 20.03	56.82 46.82	30.71 26.79	N
6	0.51036	6.30 -1.50	20.24	26.54 18.74	56.00 46.00	29.46 27.26	N
7	0.17747	22.11 4.39	20.15	42.26 24.54	64.60 54.60	22.34 30.06	L1
8	0.19116	16.51 0.63	20.06	36.57 20.69	63.99 53.99	27.42 33.30	L1
9	0.26524	16.78 1.14	19.84	36.62 20.98	61.27 51.27	24.65 30.29	L1
10	0.48601	17.25 2.13	20.23	37.48 22.36	56.24 46.24	18.76 23.88	L1

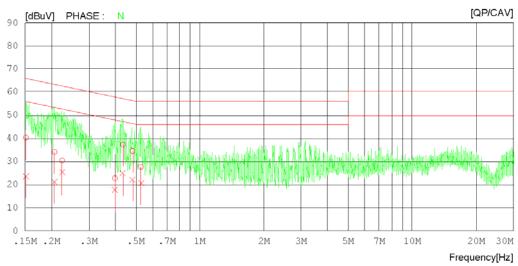


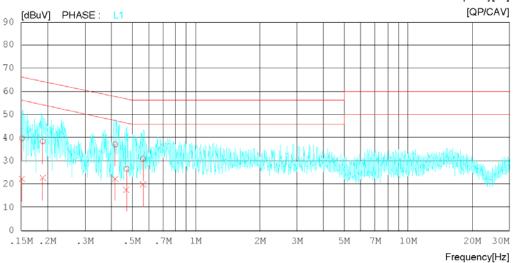
Mains terminal disturbance voltage _Measurement data							
Test configuration mode	5	EUT Operation mode	5				
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

DT&C Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa TOF + Dual Screen Mode

Memo









Date 2020-01-15

Order No. Power Supply Temp/Humi/Atm Test Condition

DTNC2001-00112 120 VAC 60 Hz 21 'C 42 % R.H. 100.7 kPa TOF + Dual Screen Mode

Memo

LIMIT : CISPR32_B QP CISPR32_B AV

NO	FREQ	READING QP CAV [dBuV][dBuV	C.FACTOR] [dB]	RESULT QP CAV [dBuV] [dBuV]	LIMIT QP CAV [dBuV][dBuV]	MARGIN QP CAV [dBuV][dBuV]	PHASE
1	0.15142		19.93	40.32 23.57	65.92 55.92	25.60 32.35	N
2	0.20646	14.13 1.19	19.97	34.10 21.16	63.35 53.35	29.25 32.19	N
3	0.22434	10.49 5.43	19.90	30.39 25.33	62.66 52.66	32.27 27.33	N
4	0.39825	2.64 -2.56	20.18	22.82 17.62	57.89 47.89	35.07 30.27	N
5	0.43357	17.15 4.63	20.20	37.35 24.83	57.18 47.18	19.83 22.35	N
6	0.48162	14.30 1.83	20.23	34.53 22.06	56.31 46.31	21.78 24.25	N
7	0.52701	7.44 0.55	20.24	27.68 20.79	56.00 46.00	28.32 25.21	N
8	0.15155	19.75 2.29	19.93	39.68 22.22	65.91 55.91	26.23 33.69	L1
9	0.18974	18.30 2.51	20.07	38.37 22.58	64.05 54.05	25.68 31.47	L1
10	0.41727	16.94 2.26	20.19	37.13 22.45	57.50 47.50	20.37 25.05	L1
11	0.47169	6.34 -2.60	20.23	26.57 17.63	56.48 46.48	29.91 28.85	L1
12	0.56372	10.66 -0.49	20.24	30.90 19.75	56.00 46.00	25.10 26.25	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

CAN/CSA CISPR 22 ANSI C63.4		Radiated disturbance 30 MHz – 40 GHz Result						
receive antenna lo were then perform m. All frequencies applicable. For fina 120 kHz Bandwidt	and 3 me cated at ved by rota were inveal measured) was use	ements were performenter above 1GHz. The arious heights in horiziting the EUT 360° and stigated in both horizonement below 1 GHz freed. For final measurendth) and CISPR Avera	EUT was ro ontal and ve I adjusting t ntal and ve equency rar nent above	otated 360 ertical pol- he receive rtical ante nge, Quas 1 GHz fre	0° about its azimuth wi arities. Final measurer e antenna height from nna polarity, where i-Peak detector with (F equency range, Peak d	th the ments 1 to 4 RBW = letector	Comply	
EUT mode		Test configu	ration mod	de	1, 2, 3	3, 4, 5		
(Refer to clauses	4)	EUT Opera	tion mode		1, 2, 3	3, 4, 5		
		Radiated Disturb	ance belov	w 1 000 N	lHz			
Frequency rang	^		Qu	asi-peak	limit dBμV/m			
(MHz)	e e	Clas	ss A		Clas	ss B		
(18112)		3 m distance	10 m dis	stance	3 m dis	stance		
30 to 88		49.1	39.	1	4	0		
88 to 216		53.5	43.	5	43	5.5		
216 to 960		56.4 46.4 46						
960 to 1 000		59.5	49.	5	5	4		
According to 15.109(g), as comply with the standards				t shown a	bove, digital devices n	nay be sh	own to	
Frequency rang	е		Qu	asi-peak	limit dBμV/m			
(MHz)		Class A (10	m distance	e)	Class B (10	m distar	nce)	
30 to 230		4	0		3	0		
230 to 1 000		4	7		3	7		
Radiate	ed Distur	bance for above 1 00	00 MHz at a	a measur	ement distance of 3	m		
Frequency rang	е	Peak limi	t dBµV/m		Average lin	nit dBµV	/m	
(GHz)		Class A	Clas	s B	Class A	CI	ass B	
1 to 40		80	74	ļ	60		54	
		y range of Radiated [
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)					Upper frequency of measurement range (MHz)			
	Below				1 000			
	108 –				2 000			
	500 – 1			5 th harn	5 000 nonic of the highest from	adilency.	or 40 CHz	
	Above 1	000		Jilalli	whichever is l		OI 70 OI IZ,	

Measurement uncertainty	
Expended uncertainty <i>U</i>	2.89 dB, (30 ~ 1 000) MHz
(95 %, Confidence level, $k = 2$)	4.22 dB, (1 GHz Above)
The measurement uncertainties were calculated in accord-	ance with requirements of ANSI C 63.4-2014.



	N	Measurement Instrum	ent		
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	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
WITH 6DB ATT	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
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26
PRE AMPLIFIER	8449B	H.P	3008A00887	2019.08.26	2020.08.26
HORN ANTENNA WITH	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2019.12.31	2020.12.31
HORN ANTENNA WITH	3116C	ETS-LINDGREN	00213177	2019.12.12	2021.12.12
PREAMPLIFIER	JS44-18004000-35-8P	L3 NARDA-MITEQ	2046884	2019.11.04	2020.11.04
(NOTE : THE MEASUREM	IENT ANTENNAS WERE	CALIBRATED IN ACCORI	DANCE TO THE RE	QUIREMENTS O	F C63.5-2017.)

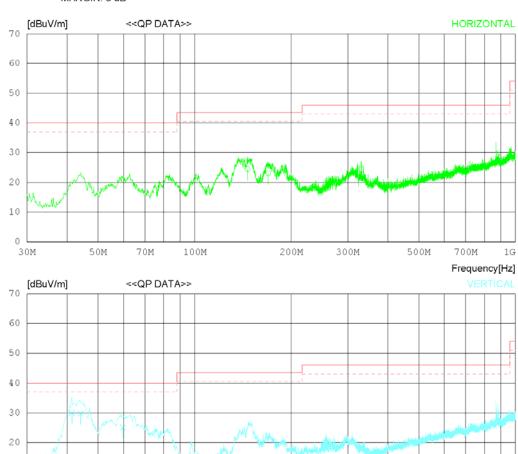


Radiated disturbance at (30 ~ 1000) MHz _Measurement data								
Test configuration mode	1	EUT Operation mode	1					
Test voltage (V)	120	Test Frequency (Hz)	60					
Travel Adaptor	Sunlin	Ear-Mic	Cresyn					

Date 2020-01-16

DTNC2001-00112 Order No. Power Supply Temp/Humi Test Condition 120 VAC 60 Hz 19 'C 40 %.R.H. Front Camera + MP3 Mode

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



10

0

30M

50M

70M

100M

200M

300M

500M

700M

Frequency[Hz]



Date 2020-01-16

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00112 120 VAC 60 Hz 19 'C 40 %.R.H.

Front Camera + MP3 Mode

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]
	Horizont	al								
2	146.034 169.556 330.207	29.60 28.70 28.10	18.82 18.14 19.80	1.74 1.80 2.34	25.67 25.64 25.88	23.00	43.50 43.50 46.00	19.01 20.50 21.64	204 209 102	352 134 0
	Vertica:	L								
4 5 6	41.398 44.065 59.706	37.30 36.80 31.70	17.38 17.61 17.90	1.21 1.23 1.29	25.81 25.81 25.78	29.83	40.00 40.00 40.00	9.92 10.17 14.89	105 196 102	356 294 352

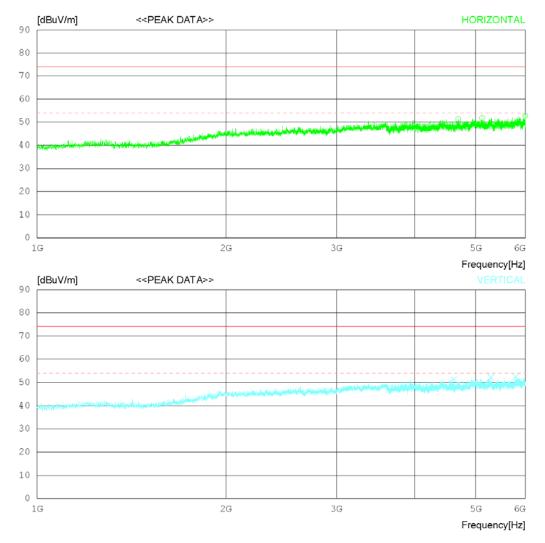
Radiated disturbance at (1 ~ 6) GHz _Peak measurement data							
Test configuration mode	1	EUT Operation mode	1				
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

RADIATED EMISSION

Date 2020-01-14

DTNC2001-00112 Order No. Power Supply Temp/Humi Test Condition 120 VAC 60 Hz 20 'C 45 %.R.H. Front Camera + MP3 Mode

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





Date 2020-01-14

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 20 'C 45 %.R.H.

Front Camera + MP3 Mode

Memo

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

No.	FREQ	READING PEAK	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	4686.875 5115.625 5996.250	41.803	34.13	10.70	34.88	51.75	74.0 74.0 74.0	22.68 22.25 21.19	102 104 204	275 358 358
	Vertical									
4 5 6	4611.250 5285.625 5788.125	41.903	34.37	10.73	34.90	52.10	74.0 74.0 74.0	22.68 21.9 21.53	108 108 101	0 212 0

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					
Travel Adaptor	Sunlin	Ear-Mic	Cresyn					

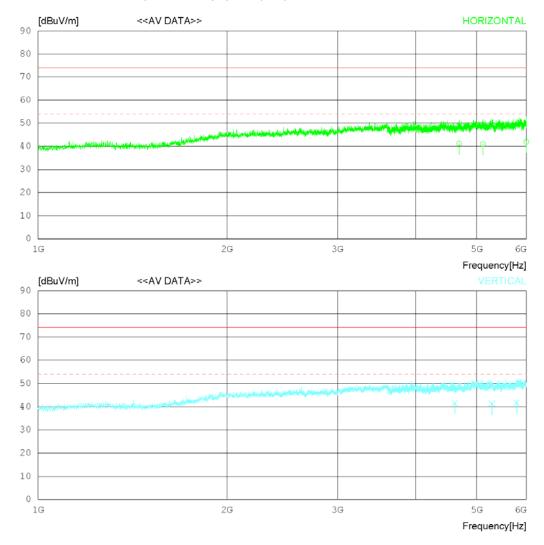
RADIATED EMISSION

Date 2020-01-14

DTNC2001-00112 Order No. Power Supply Temp/Humi Test Condition

120 VAC 60 Hz 20 'C 45 %.R.H. Front Camera + MP3 Mode

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





Date 2020-01-14

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 20 'C 45 %.R.H.

Front Camera + MP3 Mode

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Average) FCC Part15 Subpart B Class B (3m) - GHz(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	4686.715 5115.515 5996.380	31.10	34.13	10.27 10.70 11.31	34.88	41.22 41.05 42.01	54.00 54.00 54.00	12.78 12.95 11.99	102 104 205	288 351 352
	Vertical									
5	4611.380 5285.527 5788.285	31.10	34.37	10.07 10.73 11.24	34.90		54.00 54.00 54.00	12.58 12.70 12.23	108 105 104	0 227 0

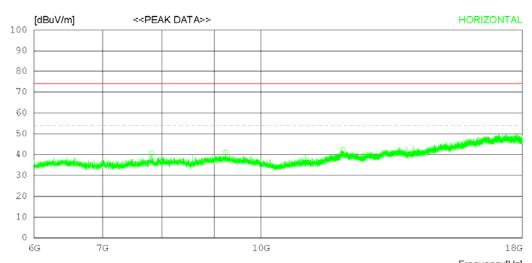


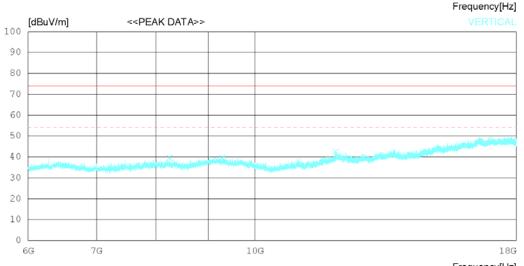
Radiated disturbance at (6 ~ 18) GHz _Peak measurement data										
Test configuration mode 1 EUT Operation mode 1										
Test voltage (V)	120	Test Frequency (Hz)	60							
Travel Adaptor	Sunlin	Ear-Mic	Cresyn							

Date 2020-01-14

DTNC2001-00112 Order No. Power Supply Temp/Humi Test Condition 120 VAC 60 Hz 20 'C 45 %.R.H. Front Camera + MP3 Mode

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







Date 2020-01-14

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 20 'C 45 %.R.H.

Front Camera + MP3 Mode

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]
	Horizon	tal								
1 2 3	9230.25	0 34.40 3 0 32.70 3 0030.90 3	32.20	13.81	37.68	41.03	74.0 74.0 74.0	33.46 32.97 31.71	108 112 105	0 0 123
	Vertica:	1								
4 5 6	9285.00	0 32.60 3 0 31.10 3 0031.10 3	32.23	13.93	37.73	39.53	74.0 74.0 74.0	34.46 34.47 31.51	112 107 106	0 9 268

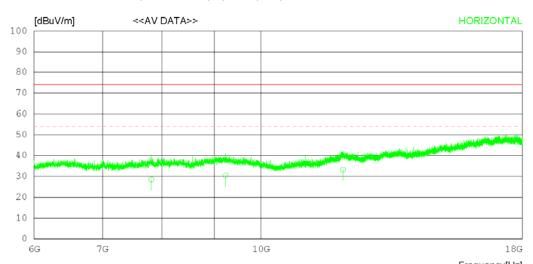


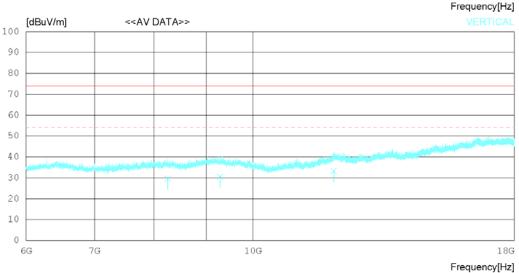
Radiated disturbance at (6 ~ 18) GHz _Average measurement data									
Test configuration mode	1	EUT Operation mode	1						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-14

DTNC2001-00112 Order No. Power Supply Temp/Humi Test Condition 120 VAC 60 Hz 20 'C 45 %.R.H. Front Camera + MP3 Mode

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







Date 2020-01-14

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 20 'C 45 %.R.H.

Front Camera + MP3 Mode

Memo

LIMIT : FCC Part15 Subpart B Class B (3m) - GHz(Average) FCC Part15 Subpart B Class B (3m) - GHz(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	7811.185 9230.125 12019.37	22.10	32.20	12.59 13.81 15.66	37.78 37.68 37.73	30.43	54.00 54.00 54.00	25.46 23.57 20.81	105 109 108	0 0 135
	Vertical									
5	8253.510 9285.110 11986.45	22.20	31.50 32.23 33.45	12.79 13.93 15.66	37.35 37.73 37.72	30.63	54.00 54.00 54.00	24.36 23.37 20.81	109 104 105	0 0 277

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						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

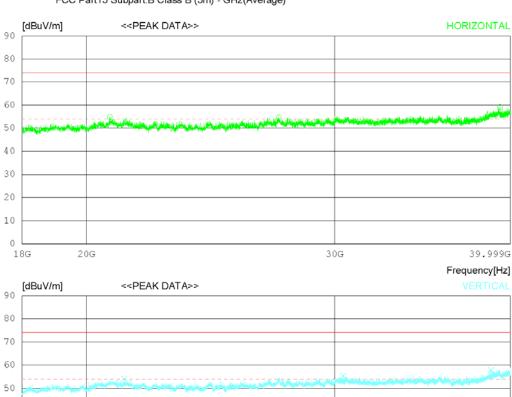
RADIATED EMISSION

Date 2020-01-18

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00112 120 VAC 60 Hz 22 'C 45 % R.H. Front Camera + MP3 Mode

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



30 20 10

18G

20G

30G



Date 2020-01-18

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 22 'C 45 % R.H.

Front Camera + MP3 Mode

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]	FACTO [dB]		[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	27380.2	50042.50 25040.50 25038.00	45.98	21.18	53.05	54.61	74.0 74.0 74.0	19.18 19.39 14.9	112 116 102	127 22 54
	Vertica	1								
4 5 6	30441.0	25041.90 00038.00	47.46	22.14	52.22	55.38	74.0 74.0 74.0	19.8 18.62 16.11	106 106 103	67 136 344



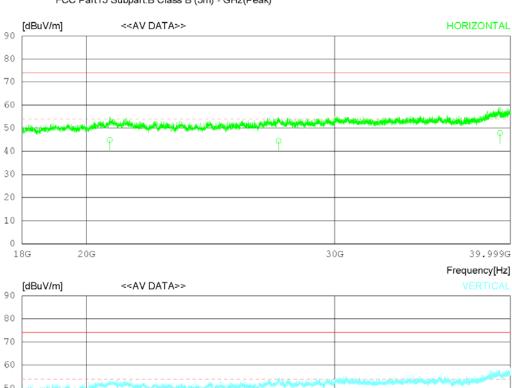
Radiated disturbance at (18 ~ 40) GHz _Average measurement data									
Test configuration mode	1	EUT Operation mode	1						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-18

Order No. Power Supply Temp/Humi Test Condition

DTNC2001-00112 120 VAC 60 Hz 22 'C 45 % R.H. Front Camera + MP3 Mode

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





Date 2020-01-18

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 22 'C 45 % R.H.

Front Camera + MP3 Mode

Memo

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
3	20777.69 27380.21 39326.17 Vertical	030.40 026.80	45.98 48.03		53.05	44.82 44.51 47.90	54.00 54.00 54.00	9.18 9.49 6.10	109 114 105	135 35 41
5	21275.18 30441.07 38757.11	029.70	45.52 47.46 47.26	22.14	52.22	47.08	54.00 54.00 54.00	9.40 6.92 7.11	109 107 101	88 155 341



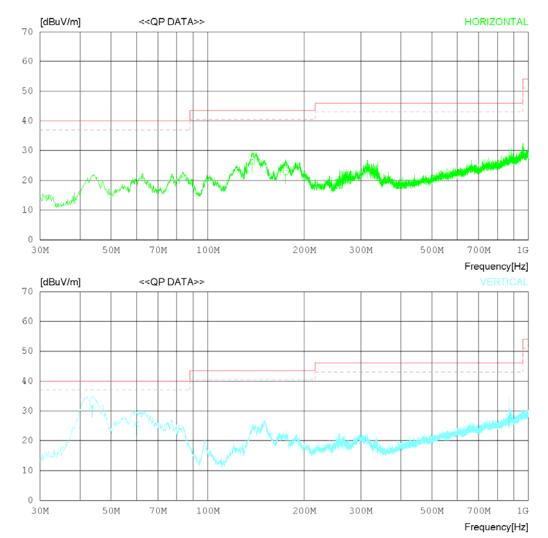
Radiated disturbance at (30 ~ 1000) MHz _Measurement data									
Test configuration mode 2 EUT Operation mode 2									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition Rear Camera Mode

Memo

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





Date 2020-01-16

Order No. Power Supply Temp/Humi DTNC2001-00112 120 VAC 60 Hz 19 'C 40 %.R.H. Test Condition Rear Camera Mode

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
3	137.425 175.012 314.445	28.90 28.50	18.52 17.55 19.54	1.67 1.82 2.30	25.68 25.63 25.86		43.50 43.50 46.00	17.29 20.86 21.52	204 211 108	352 146 102
	Vertical									
4 5 6	43.580 59.828 870.086	38.50 32.20 21.10	17.60 17.90 29.20	1.23 1.29 3.55	25.81 25.78 25.78	25.61	40.00 40.00 46.00	8.48 14.39 17.93	104 109 101	288 352 64

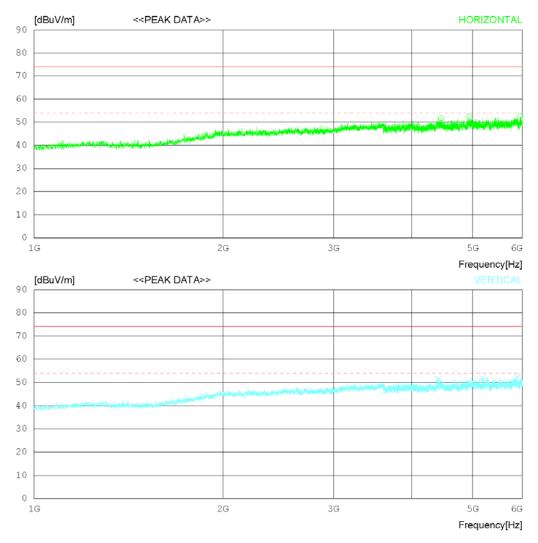
Radiated disturbance at (1 ~ 6) GHz _Peak measurement data								
Test configuration mode 2 EUT Operation mode 2								
Test voltage (V)	120	Test Frequency (Hz)	60					
Travel Adaptor Sunlin Ear-Mic Cresyr								

RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo

No.	FREQ I	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizonta	al								
1 2 3	4450.000 4930.000 5950.000	42.30	34.16		34.13 34.77 34.99	51.75 52.36 52.51	74.0 74.0 74.0	22.25 21.64 21.49	109 101 108	285 358 358
	Vertical									
4 5 6	4402.500 5177.500 5887.500	41.80	34.20	10.69	34.07 34.88 34.98	51.46 51.81 52.28	74.0 74.0 74.0	22.54 22.19 21.72	109 106 103	0 0 5

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						
Travel Adaptor	Travel Adaptor Sunlin Ear-Mic Cresyn								

RADIATED EMISSION

Date 2020-01-14

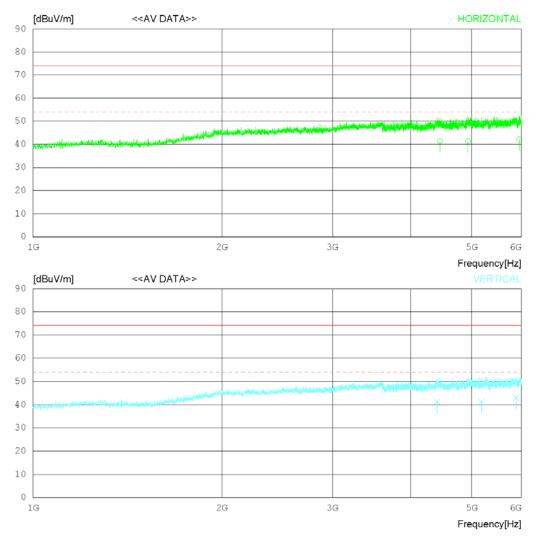
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo

No	. FREQ	READING CAV	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]		[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	4450.110 4930.080 5950.270	31.20		9.88 10.67 11.30	34.13 34.77 34.99	41.26	54.00 54.00 54.00	12.75 12.74 11.89	108 105 104	294 356 352
	Vertical									
5	4402.452 5177.395 5887.410	31.10	33.80 34.20 34.97	9.82 10.69 11.28	34.07 34.88 34.98	41.11	54.00 54.00 54.00	12.75 12.89 11.03	107 104 105	0 0 0

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						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

RADIATED EMISSION

Date 2020-01-14

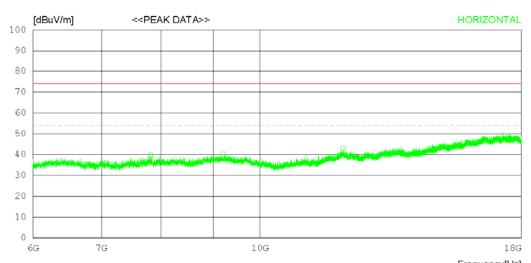
 Order No.
 DTNC2001-00112

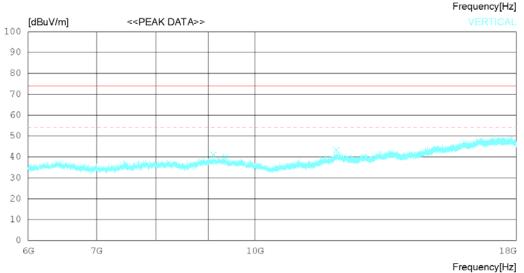
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTO [dB]		[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
_	9195.00	00 33.60 0 00 31.90 0 00031.60	32.19	13.74	37.66	40.17	74.0 74.0 74.0	34.26 33.83 31.07	108 112 106	32 358 358
	Vertica:	1								
4 5 6	9353.25	0 32.90 3 0 31.40 3 25031.90	32.26	14.09	37.78	41.05 39.97 43.34	74.0 74.0 74.0	32.95 34.03 30.66	104 107 103	112 0 55

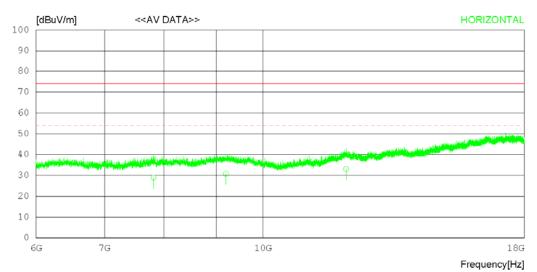


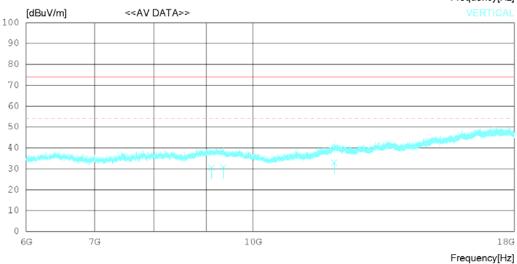
Radiated disturbance at (6 ~ 18) GHz _Average measurement data									
Test configuration mode	2	EUT Operation mode	2						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition Rear Camera Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 Rear Camera Mode

Memo

No.	FREQ	READING	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	7815.680 9195.240 12051.12	22.50	31.33 32.19 33.46	13.74	37.78 37.66 37.77	30.77	54.00 54.00 54.00	25.16 23.23 20.97	109 108 104	44 356 352
	Vertical									
5	9107.140 9353.520 11999.31	22.20	32.15 32.26 33.46	14.09	37.59 37.78 37.70	30.77	54.00 54.00 54.00	23.45 23.23 21.06	103 104 105	102 0 41

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

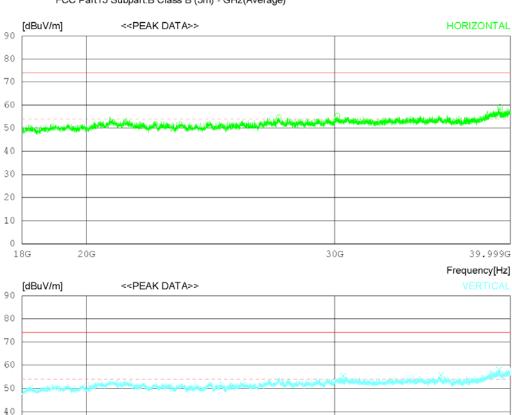
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera Mode

Memo

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



39.999G

30 20 10

18G

20G

30G



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 45 % R.H.

 Test Condition
 Rear Camera Mode

Memo

No.	FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	30141.2	25040.50 25038.10 25038.00	47.50				74.0 74.0 74.0	19.39 18.65 14.9	108 106 111	22 182 54
	Vertica	1								
4 5 6	39254.7	00038.00 75038.60 00036.90	46.90	22.14 24.08 25.41	52.22 53.83 52.24	55.75 55.38 58.02	74.0 74.0 74.0	18.25 18.62 15.98	109 105 102	163 358 136

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					
Travel Adaptor Sunlin Ear-Mic Cres								

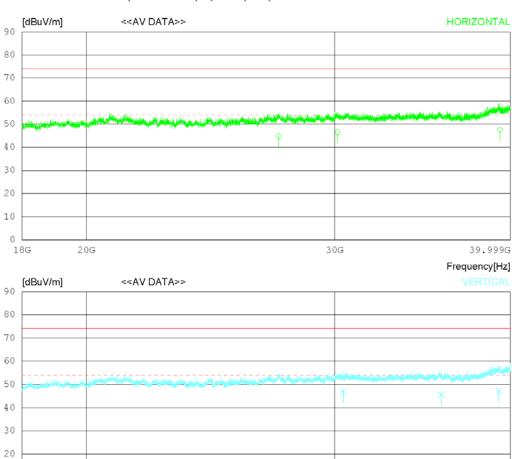
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 45 % R.H.
Test Condition Rear Camera Mode

Memo

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



39.999G

10

18G

20G

30G



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 45 % R.H.

 Test Condition
 Rear Camera Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	tal								
2	27380.36 30141.21 39326.29 Vertical	029.20 026.40	47.50 48.03	21.18 21.96 25.30			54.00 54.00 54.00	9.29 7.55 6.50	104 105 109	0 196 66
	30441.12		47.46	22 1/	52.22	46.98	54.00	7.02	108	345
5	35721.08 39254.61	028.50		24.08	53.83	45.65	54.00 54.00	8.35 6.81	104	377 351



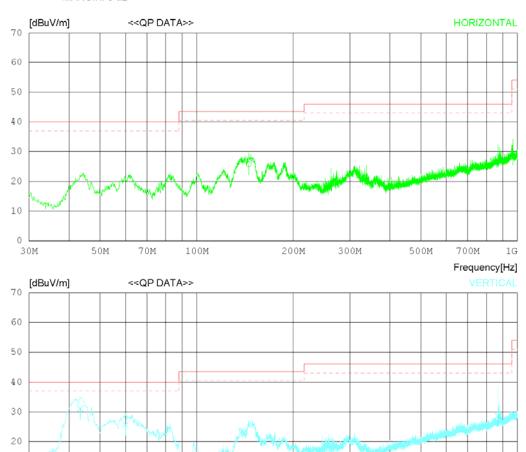
Radiated disturbance at (30 ~ 1000) MHz _Measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-16

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition IDLE Mode

Memo

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



10

0

30M

50M

70M

100M

200M

300M

500M

700M

Frequency[Hz]



Date 2020-01-16

Order No. Power Supply Temp/Humi DTNC2001-00112 120 VAC 60 Hz 19 'C 40 %.R.H. Test Condition IDLE Mode

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
2	145.306 869.965 969.533	30.90 21.20 20.70	18.81 29.20 30.50	1.74 3.55 3.80	25.67 25.78 25.90	28.17	43.50 46.00 54.00	17.72 17.83 24.90	206 201 208	353 0 0
	Vertical	L								
4 5 6	43.338 59.949 869.722	38.10 32.30 21.60	17.60 17.90 29.20	1.23 1.29 3.55	25.81 25.78 25.78	25.71	40.00 40.00 46.00	8.88 14.29 17.43	103 104 105	352 25 152

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Travel Adaptor Sunlin Ear-Mic Cresyn								

RADIATED EMISSION

Date 2020-01-14

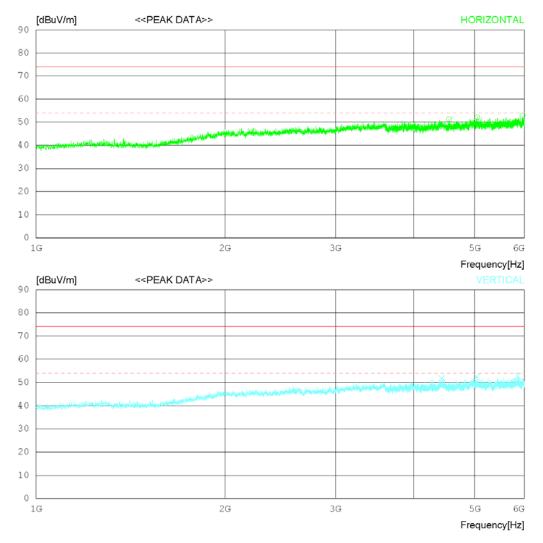
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 IDLE Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 IDLE Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOI [dB]	(dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
1 2 3	4550.000 5046.250 5958.750	0 42.10	34.19	10.72	34.87	51.22 52.14 52.81	74.0 74.0 74.0	22.78 21.86 21.19	109 103 106	169 22 354
	Vertical									
4 5	4432.500 5040.000 5858.129	0 42.30	34.18	10.71	34.11 34.87 34.98		74.0 74.0 74.0	22.18 21.68 21.29	206 201 105	0

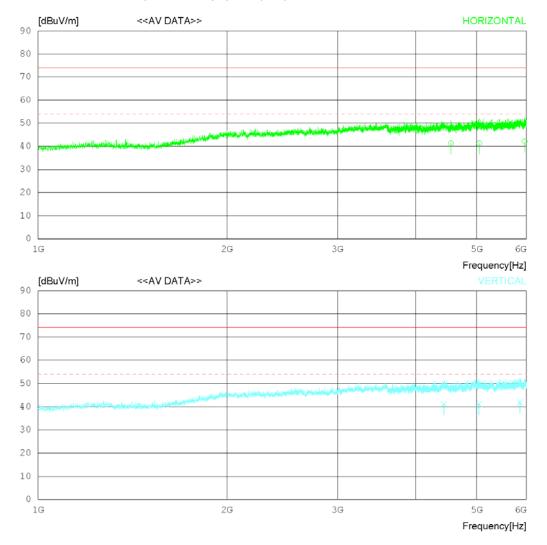
Radiated disturbance at (1 ~ 6) GHz _Average measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor Sunlin Ear-Mic Cresyn									

RADIATED EMISSION

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 IDLE Mode

Memo

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								
_	4550.040 5046.280 5958.650	31.30		9.99 10.72 11.30	34.27 34.87 34.99	41.34	54.00 54.00 54.00	12.68 12.66 11.89	109 104 105	177 35 349
	- Vertical									
	4432.258 5040.040 5858 385	31.10		9.86 10.71	34.11 34.87	41.12	54.00 54.00	12.99 12.88	205 202 104	0

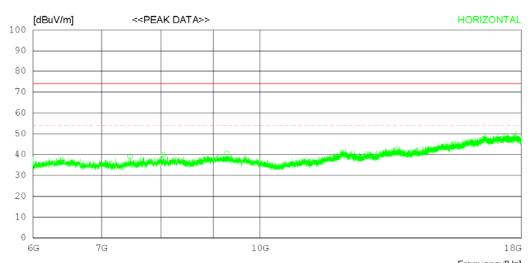


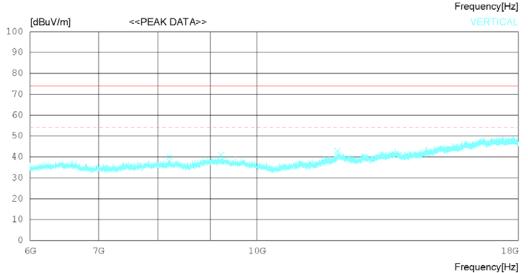
Radiated disturbance at (6 ~ 18) GHz _Peak measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-14

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 20 'C 45 %.R.H.
Test Condition IDLE Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 IDLE Mode

Memo

No.	FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	r. [dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	8042.25	0 33.90 3 0 33.60 3 0 31.90	31.33	12.35	37.47	39.81	74.0 74.0 74.0	34.92 34.19 33.67	106 107 109	8 60 336
	Vertica:	1								
4 5	9225.00	0 33.10 3 0 32.60 3	32.20		37.68	40.92	74.0 74.0 74.0	34.05 33.08 31.14	103 106 107	170 0



Radiated disturbance at (6 ~ 18) GHz _Average measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Travel Adaptor Sunlin Ear-Mic Cresyn								

Date 2020-01-14

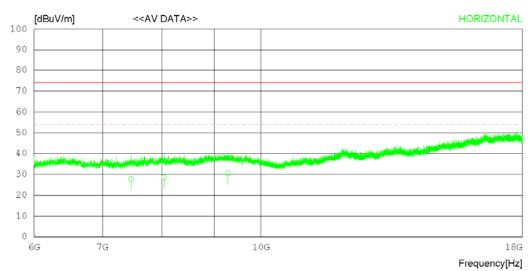
 Order No.
 DTNC2001-00112

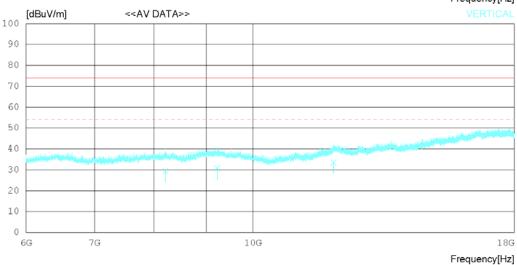
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 IDLE Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 IDLE Mode

Memo

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								
3	7464.080 8042.317 9278.301 Vertical	22.40 22.20		12.35			54.00 54.00 54.00	26.22 25.39 23.37	104 105 108	0 68 246
4 5	8210.140 9225.080 11984.36	22.50 22.40	31.47	13.80	37.37 37.68		54.00 54.00 54.00	24.65 23.28 20.44	102 104 105	186 0

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data									
Test configuration mode 3 EUT Operation mode 3									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

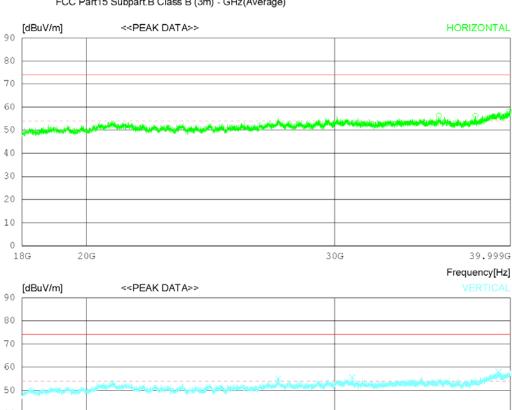
RADIATED EMISSION

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 43 % R.H.
Test Condition IDLE Mode

Memo

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



39.999G

30 20 10

18G

20G

30G



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 IDLE Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTO [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	37767.0	75039.00 00038.10 75036.70	46.10	24.49	52.49	56.20	74.0 74.0 74.0	17.74 17.8 15.93	107 109 100	34 243 0
	Vertica	1								
4 5 6	30881.0	25041.10 00038.20 50036.90	47.32	22.40	52.24	55.68	74.0 74.0 74.0	18.81 18.32 15.97	103 106 103	349 32 358



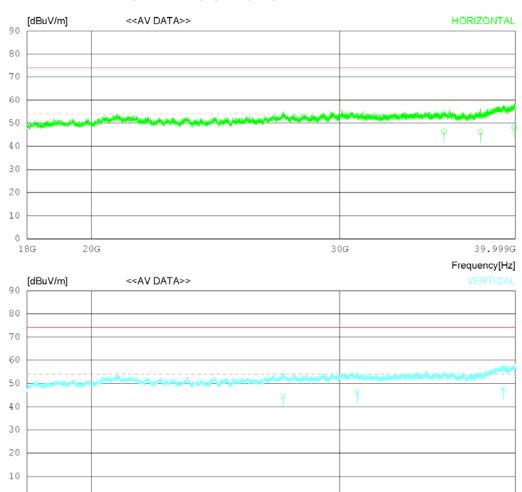
Radiated disturbance at (18 ~ 40) GHz _Average measurement data									
Test configuration mode	3	EUT Operation mode	3						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-18

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 22 'C 43 % R.H.
Test Condition IDLE Mode

Memo

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



20G

18G

30G

39.999G Frequency[Hz]



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 IDLE Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE		
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]		
Horizontal												
2 3 3	35580.62 37767.27 39914.88 Vertical	028.20 026.70	46.10 49.13	24.06 24.49 24.44	53.80 52.49 52.20	46.30	54.00 54.00 54.00	7.64 7.70 5.93	108 107 101	36 237 0		
5 3	27369.21 30881.17 39224.68	028.80	47.32	21.17 22.40 25.45	52.24		54.00 54.00 54.00	9.52 7.72 6.27	102 101 102	356 22 347		



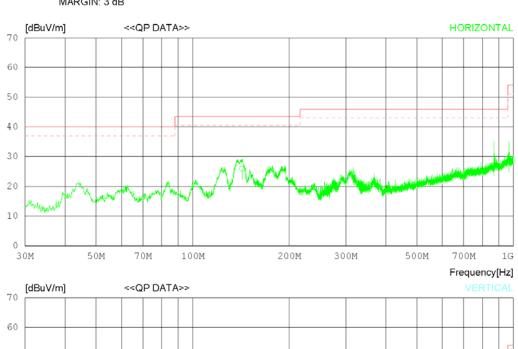
Radiated disturbance at (30 ~ 1000) MHz _Measurement data									
Test configuration mode	4	EUT Operation mode	4						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

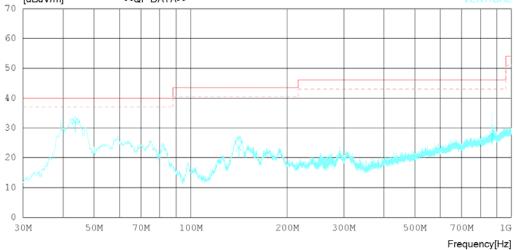
Date 2020-01-16

Order No. DTNC2001-00112
Power Supply 120 VAC 60 Hz
Temp/Humi 19 'C 40 %.R.H.
Test Condition TOF Mode

Memo

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







Date 2020-01-16

Order No. Power Supply Temp/Humi DTNC2001-00112 120 VAC 60 Hz 19 'C 40 %.R.H. Test Condition TOF Mode

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
3	142.396 869.843 969.533	31.20 20.30 20.10	18.75 29.20 30.50	1.70 3.55 3.80	25.67 25.78 25.90	27.27	43.50 46.00 54.00	17.52 18.73 25.50	205 109 101	355 353 282
4			17.60	1 00	25 01	22 22	10.00	7.78	109	25.0
5	43.580 141.184 870.086	39.20 28.80 21.10	18.72 29.20	1.23 1.69 3.55	25.81 25.68 25.78	23.53	40.00 43.50 46.00	19.97 17.93	104 105	352 356 111

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data									
Test configuration mode	4	EUT Operation mode	4						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

RADIATED EMISSION

Date 2020-01-14

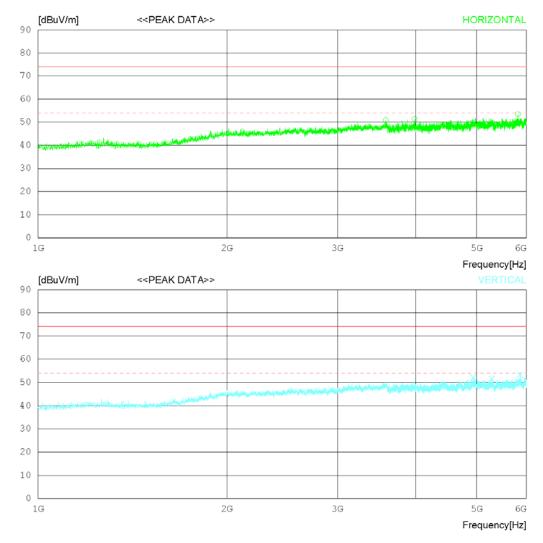
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 TOF Mode

Memo

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]
	Horizont	al								
1 2 3	3978.12	0 43.40 3 5 42.70 3 0 42.40 3	33.30	8.91	33.57	50.82 51.34 53.46	74.0 74.0 74.0	23.18 22.66 20.54	105 107 106	352 53 358
	Vertical									
4 5 6	5283.75	0 42.00 3 0 41.40 3 0 42.00 3	34.37	10.73	34.90	52.09 51.60 53.22	74.0 74.0 74.0	21.91 22.4 20.78	101 104 108	0 11 100

Radiated disturbance at (1 ~ 6) GHz _Average measurement data									
Test configuration mode	4	EUT Operation mode	4						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

RADIATED EMISSION

Date 2020-01-14

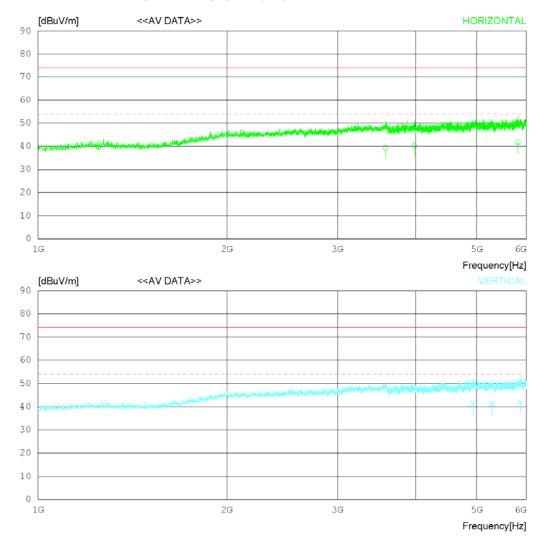
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF Mode

Memo





Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 TOF Mode

Memo

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	3580.050 3978.285 5813.640	31.70	33.26 33.30 34.75	8.91	34.12 33.57 34.97	40.34	54.00 54.00 54.00	14.68 13.66 12.15	102 104 105	345 66 352	
	Vertical										
5	4942.352 5283.685 5863.620	31.10	34.37	10.73	34.78 34.90 34.98		54.00 54.00 54.00	12.62 12.70 11.98	101 104 105	0 0 95	

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data									
Test configuration mode	4	EUT Operation mode	4						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

RADIATED EMISSION

Date 2020-01-14

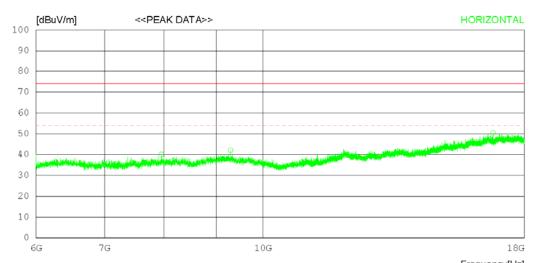
 Order No.
 DTNC2001-00112

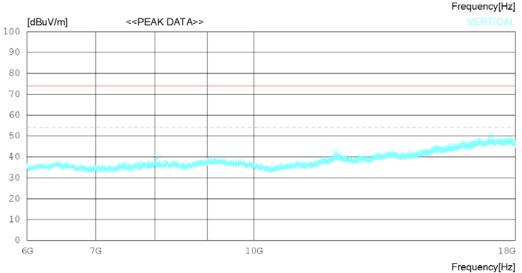
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 TOF Mode

Memo

No.	FREQ	READING PEAK	ANT FACTO	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	(dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	9293.25	0 34.00 3 0 33.60 3 0030.30 3	32.23	13.95	37.73	42.05	74.0 74.0 74.0	33.93 31.95 23.73	107 105 112	0 5 358
	Vertica:	l								
4 5 6	12018.0	0 33.20 3 0030.50 3	33.46	15.66	37.73	41.89	74.0 74.0 74.0	34.57 32.11 23.76	106 101 100	0 339 358



Radiated disturbance at (6 ~ 18) GHz _Average measurement data									
Test configuration mode	4	EUT Operation mode	4						
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Sunlin	Ear-Mic	Cresyn						

Date 2020-01-14

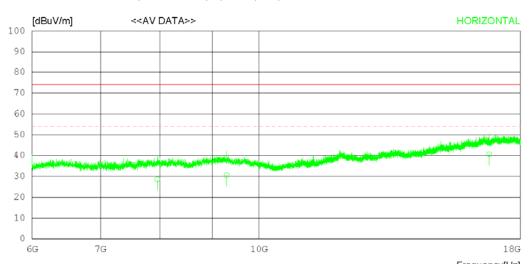
 Order No.
 DTNC2001-00112

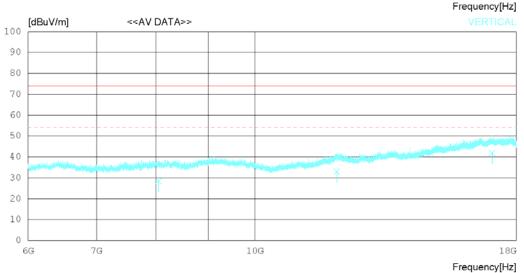
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF Mode

Memo







Date 2020-01-14

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 % R.H.

 Test Condition
 TOF Mode

Memo

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 9	7953.210 9293.380 L6777.45	22.20	31.31 32.23 37.30	13.95	37.57 37.73 36.27	30.65	54.00 54.00 54.00	25.43 23.35 13.33	102 107 108	0 0 352	
	Vertical										
5 1	3048.380 12018.11	021.60	31.34 33.46 37.58	15.66	37.47 37.73 36.45	32.99	54.00 54.00 54.00	25.47 21.01 12.16	109 104 105	0 342 351	

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data								
Test configuration mode 4 EUT Operation mode 4								
Test voltage (V)	120	Test Frequency (Hz)	60					
Travel Adaptor Sunlin Ear-Mic Cres								

RADIATED EMISSION

Date 2020-01-18

 Order No.
 DTNC2001-00112

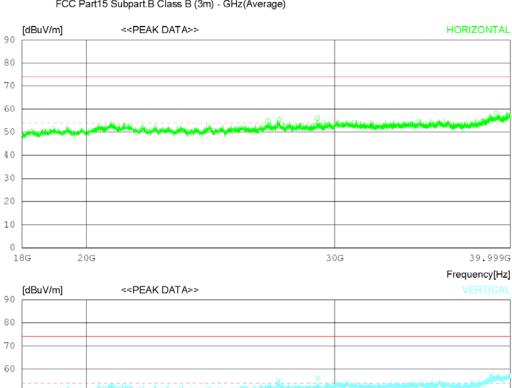
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF Mode

Memo

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



Frequency[Hz]



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF Mode

Memo

No.	FREQ	READING		LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTO [dB]		[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3 4	27407. 29170.	00041.00 75041.10 50039.70 75037.00	46.00 46.97	21.12 21.18 21.84 25.65	53.20 53.04 52.47 52.25	54.82 55.24 56.04 58.09	74.0 74.0 74.0 74.0	19.18 18.76 17.96 15.91	126 105 102 104	0 244 0 7
	Vertica	1								
5 6 7	29189.	00041.00 75039.80	46.99	21.18 21.84 25.52	53.04 52.46 52.26	55.14 56.17 57.54	74.0 74.0 74.0	18.86 17.83	108 112 106	358 13 358



Radiated disturbance at (18 ~ 40) GHz _Average measurement data									
Test configuration mode 4 EUT Operation mode									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor Sunlin Ear-Mic Cresyn									

Date 2020-01-18

 Order No.
 DTNC2001-00112

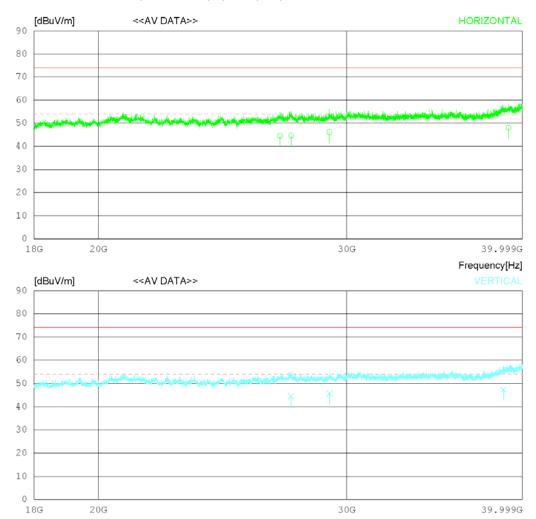
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF Mode

Memo

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



Frequency[Hz]



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF Mode

Memo

No	• FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
2 3 4	26910.28 27407.66 29170.43 39089.86	030.50 029.70 026.90	45.90 46.00 46.97 47.69	21.12 21.18 21.84 25.65	53.20 53.04 52.47 52.25	44.64 46.04	54.00 54.00 54.00 54.00	9.48 9.36 7.96 6.01	118 103 104 105	0 241 0 0
	Vertica:	1								
6	27405.07 29189.88 38779.13	029.30	46.00 46.99 47.28	21.18 21.84 25.52	53.04 52.46	45.67	54.00 54.00 54.00	9.46 8.33 6.66	106 109 104	651 0 353



Radiated disturbance at (30 ~ 1000) MHz _Measurement data									
Test configuration mode 5 EUT Operation mode 5									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor	Travel Adaptor Sunlin Ear-Mic Cresyn								

Date 2020-01-16

 Order No.
 DTNC2001-00112

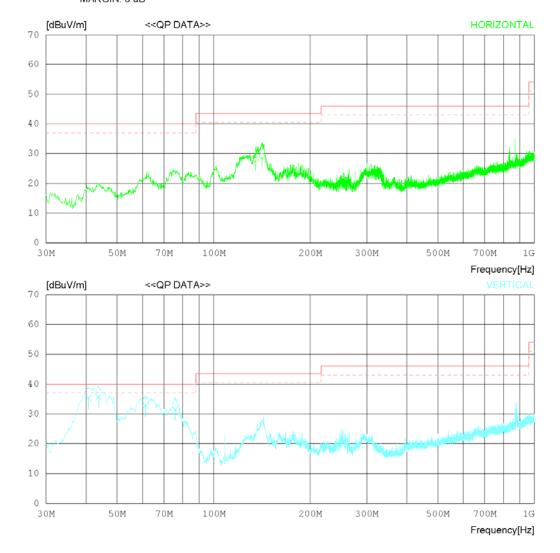
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 19 'C 40 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo

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





Date 2020-01-16

Order No. Power Supply Temp/Humi DTNC2001-00112 120 VAC 60 Hz 19 'C 40 %.R.H. Test Condition TOF + Dual Screen Mode

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
	135.000 141.184		18.35 18.72	1.68 1.69	25.68 25.68		43.50 43.50	15.45 14.27	201 202	0 352
	Vertical									
3 4 5	40.670 43.823 61.283	39.40	17.14 17.60 17.90	1.23	25.81 25.81 25.78	35.72 32.81	40.00 40.00 40.00	4.67 4.28 7.19	101 109 104	308 0 313
6	75.711	40.20	15.66	1.43	25.75	31.54	40.00	8.46	102	157

Radiated disturbance at (1 ~ 6) GHz _Peak measurement data									
Test configuration mode 5 EUT Operation mode 5									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor Sunlin Ear-Mic Cresy									

RADIATED EMISSION

Date 2020-01-17

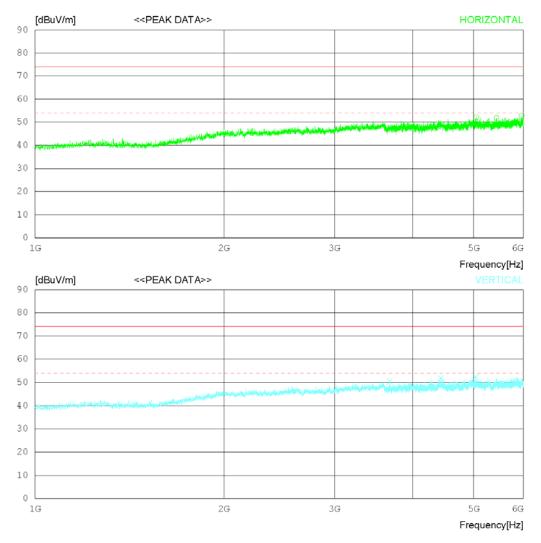
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo





Date 2020-01-17

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo

No.	FREQ F	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz] [[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizonta	al	-							
1 2 3	5046.250 5433.125 5958.750	41.30 3	4.67	10.80	34.87 34.92 34.99	51.85	74.0 74.0 74.0	21.86 22.15 21.19	109 104 111	22 261 354
	Vertical		-							
4 5	3677.500 4432.500	42.20 3	3.87	9.86	33.99	51.82	74.0 74.0	23.65	117 106	255 0
6	5040.000	42.30 3	4.18	10.71	34.87	52.32	74.0	21.68	109	0

Radiated disturbance at (1 ~ 6) GHz _Average measurement data									
Test configuration mode 5 EUT Operation mode 5									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor Sunlin Ear-Mic Cresyn									

RADIATED EMISSION

Date 2020-01-17

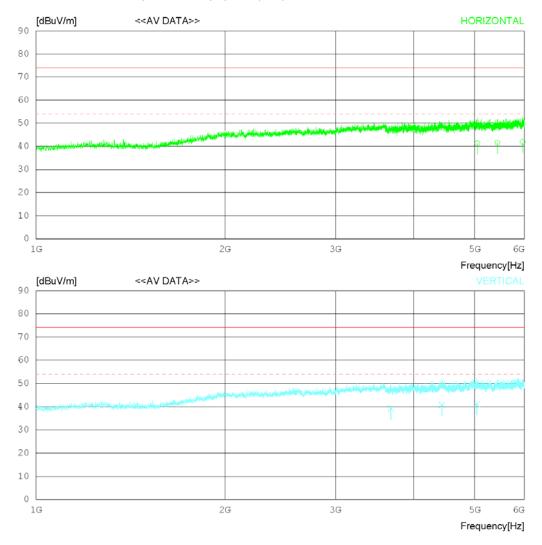
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 20 'C 45 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo





Date 2020-01-17

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 20 'C 45 %.R.H. TOF + Dual Screen Mode

Memo

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 5046.380 2 5433.235 3 5958.670	31.00	34.67		34.92		54.00 54.00 54.00	12.66 12.45 12.09	109 104 108	0 279 354
Vertical	L								
4 3677.420 5 4432.690 6 5040.040	31.20	33.00 33.87 34.18	8.54 9.86 10.71	33.99 34.11 34.87	40.82	54.00 54.00 54.00	14.95 13.18 12.88	115 104 108	263 0 0



Radiated disturbance at (6 ~ 18) GHz _Peak measurement data									
Test configuration mode 5 EUT Operation mode									
Test voltage (V)	120	Test Frequency (Hz)	60						
Travel Adaptor Sunlin Ear-Mic Cresy									

Date 2020-01-17

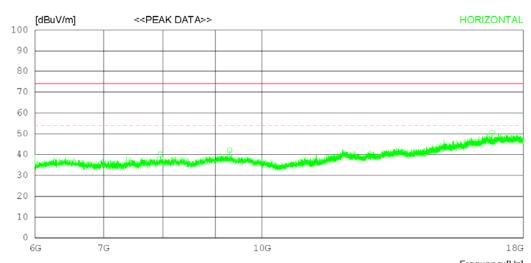
 Order No.
 DTNC2001-00112

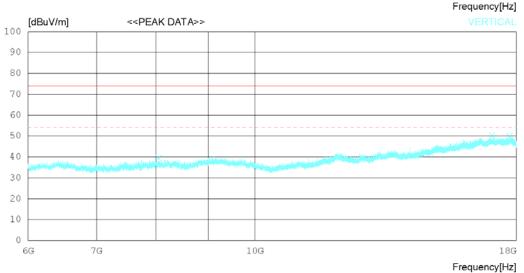
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 43 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo







Date 2020-01-17

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 21 'C 43 %.R.H.

TOF + Dual Screen Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTO [dB]		[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	9293.25 16777.5	00 34.00 3 50 33.60 3 50030.30 3	32.23 37.30	13.95	37.73	42.05	74.0 74.0 74.0	33.93 31.95 23.73	107 112 106	0 5 358
	Vertica	1								
4		50 33.20					74.0	34.57	112	0
5 6		00029.10: 75029.50:		20.01	36.45		74.0 74.0	23.76	107 105	358 49



Radiated disturbance at (6 ~ 18) GHz _Average measurement data								
Test configuration mode 5 EUT Operation mode 5								
Test voltage (V)	120	Test Frequency (Hz)	60					
Travel Adaptor	Sunlin	Ear-Mic	Cresyn					

Date 2020-01-17

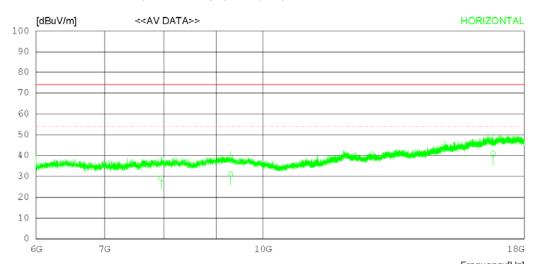
 Order No.
 DTNC2001-00112

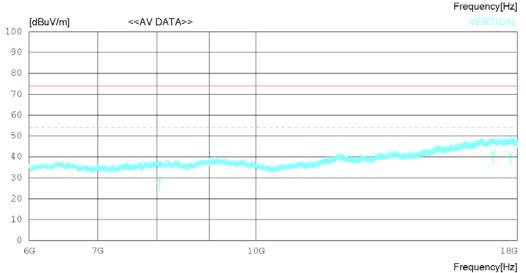
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 43 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo







Date 2020-01-17

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 21 'C 43 %.R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo

No	. FREQ	READING CAV	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
3	7953.140 9293.390 16777.26	22.60 020.80	31.31 32.23 37.30	13.95	37.57 37.73 36.27	31.05	54.00 54.00 54.00	25.03 22.95 13.23	105 109 107	0 0 351
	Vertical									
5	8048.380 17040.11 17727.86	020.90	37.58	12.36 20.01 19.73	37.47 36.45 37.36	42.04	54.00 54.00 54.00	25.07 11.96 12.82	109 104 108	0 352 54

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data							
Test configuration mode 5 EUT Operation mode 5							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

RADIATED EMISSION

Date 2020-01-18

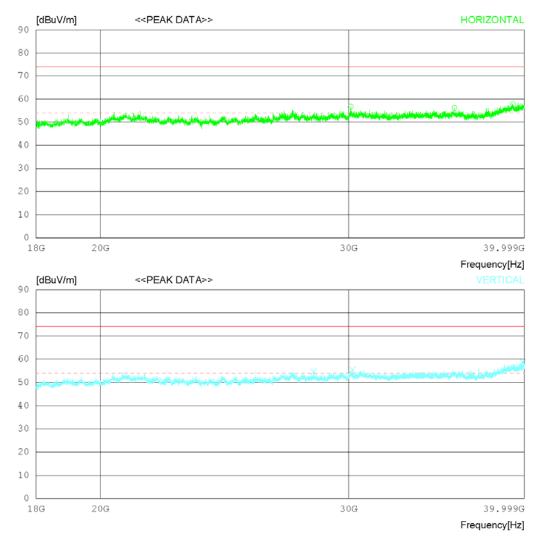
 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo





Date 2020-01-18

Order No. Power Supply Temp/Humi Test Condition DTNC2001-00112 120 VAC 60 Hz 22 'C 43 % R.H.

TOF + Dual Screen Mode

Memo

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK [dBuV]	FACTOI [dB]	(dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2 3	35671.5	75039.50 60039.00 75036.70	16.93	24.08	53.82		74.0 74.0 74.0	17.27 17.81 16.17	112 108 100	315 140 41
	Vertica	1								
4 5 6	30190.	00039.50 4 75038.20 4 75037.40 4	17.50	21.47 21.99 24.47		54.67 55.48 58.75	74.0 74.0 74.0	19.33 18.52 15.25	113 107 102	98 329 234



Radiated disturbance at (18 ~ 40) GHz _Average measurement data							
Test configuration mode 5 EUT Operation mode 5							
Test voltage (V)	120	Test Frequency (Hz)	60				
Travel Adaptor	Sunlin	Ear-Mic	Cresyn				

Date 2020-01-18

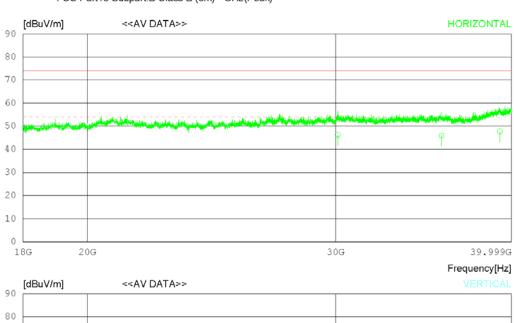
 Order No.
 DTNC2001-00112

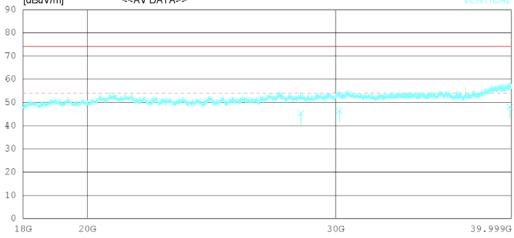
 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo





Frequency[Hz]



Date 2020-01-18

 Order No.
 DTNC2001-00112

 Power Supply
 120 VAC 60 Hz

 Temp/Humi
 22 'C 43 % R.H.

 Test Condition
 TOF + Dual Screen Mode

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV [dBuV]	FACTOR [dB]	[dB]	[dB] [[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	tal								
2	30113.63 35671.43 39243.72	028.70	47.50 46.93 47.94	21.94 24.08 25.43	52.21 53.82 52.24	46.33 45.89 47.73	54.00 54.00 54.00	7.67 8.11 6.27	109 107 101	328 152 55
	Vertical	1								
5	28340.12 30190.65 39892.52	029.10	46.44 47.50 49.09	21.47 21.99 24.47	52.74 52.21 52.21	45.27 46.38 48.05	54.00 54.00 54.00	8.73 7.62 5.95	109 105 104	96 335 341

Calculation

Result($dB\mu V/m$): Reading Value($dB\mu V$) + Cable loss(dB) - Pre amplifier gain(dB) + Ant. Factor(dB)

Margin(dB) : Limit(dBμV/m) - Result(dBμV/m)



8. Revision History

Date	Description	Revised By	Reviewed By
Feb. 04. 2020	Initial report	ChanGeun Lee	KyoungHwan Bae
Feb. 10. 2020	 Added measurement uncertainty. (Refer to page 8 and 19.) 	ChanGeun Lee	KyoungHwan Bae
Feb. 13. 2020	Updated Add model name	TaeHyun Choi	KyoungHwan Bae

⁻End of test report-