# **TEST REPORT**

# **Dt&C**

### DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042 Tel : 031-321-2664, Fax : 031-321-1664





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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
Approxitation	Korea	KOLAS	393	ISO/IEC 17025
Accreditation	South Africa	SABS	0006	ISO/IEC 17025
	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
Sito Filing	Canada	IC	5740A-3 5740A-4	Registered
Site Filling	Japan	VCCI	C-1427 R-1364, R-3385, R-4076, R-4180, T-1442, G-10338, G-754, G-10815	Registered
	Korea	КС	KR0034	Designation
Certification	Germany	TUV	CARAT 17 11 89112 005	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

# 3. General Information of EUT

Applicant	BLUEBIRD INC. (Dogok-dong, SEI Tower 13,14) 39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
Manufacturer	BLUEBIRD INC. (Dogok-dong, SEI Tower 13,14) 39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
Factory	BLUEBIRD INC. (Dogok-dong, SEI Tower 13,14) 39, Eonjuro30-gil, Gangnam-gu, Seoul, South Korea
Product Name	Tablet
Model Name	RT101
Add Model Name	None
RF Module Name	None
FCC ID	SS4RT101
Rated Power	DC 3.8 V
Remarks	None

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

# 4. EUT Operations and Test Configurations

### 4.1 Principle of Configuration Selection

#### Emission :

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use. For each testing mode different configurations were used, Refer to the individual tests.

### 4.2 EUT Operation Mode

No.	Mode	Description
1	Data transfer (Notebook -> EUT)	Connected Notebook at USB Cable
2	Charging + Rear camera	Connected AC Adapter
3	MP3	Portable Equipment
4	MP4	Portable Equipment

### 4.3 Test Configuration Mode

No.	Mode	Description
1	Data transfer (Notebook -> EUT)	Continue data communication with Notebook. The data loss rate is confirmed to be 0%. The following modes were also operated and tested simultaneously. continuous preview operation status. And a distortion phenomenon was confirmed
2	Charging + Rear camera	Continuous check of LED lamp (charging lamp on). continuous preview operation status. And a distortion phenomenon was confirmed.
3	MP3	The status of playing the audio file of the mp3 file Using the Audio Analyzer(UPS/R&S) equipment, Confirm -5dB change in reference
4	MP4	The status of playing the audio file of the mp4 file Using the Audio Analyzer(UPS/R&S) equipment, Confirm -5dB change in reference

### 4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks		
AE	AC Adapter #1	Ten Pao Electronics (Huizhou) Co.,Ltd	S008ACM0500200	N/A		
AE	Battery	GSP Limited	BAT-RT100	24566GSQIQ00044		
AE	Notebook	HP	HSTNN-Q95C	N/A		
AE	AC Adapter #1 (Notebook)	CHICONY POWER	HSTNN-CA40	N/A		
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator						



# 4.5 EUT In/Output Port

Namo		Tupo*	Cable	Cable	Cable	Bomarka
	Name	туре	Max. >3m		Shielded Back shell	
	USB	Туре С	1.0	-	Plastic	None
*Abbre	viations:	•				
AC	= AC Power Port	C	C = DC Power	Port	N/E = Non-Electri	cal
I/O	= Signal Input or	Output Port				
TP	= Telecommunica	ation Ports				

# 4.6 Test Voltage and Frequency

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

# 5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	С
Radiated Disturbance	ANSI C63.4 : 2014	С
C=Comply N/C=Not Comply	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]
0.16814	Ν	61.48	QP	65.05	3.57

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]
600.002	Vertical	40.19	QP	46.00	5.81

# 6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (℃)	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2018-04-02	19	43	100.9
Radiated Disturbance	2018-03-29	22	43	-

# 7. Test Results : Emission

### 7.1 Conducted Disturbance

ANSI C63.4 Mains terminal disturbance voltage					Result
Method: The AMN reference other unit power wa voltage m port of the test softwa frequency performing CISPR Av kHz RBW the cable	Comply				
Fully configured sample scanned ov         Frequency range on each side of line         Measure					ement Point
er the following frequency range		150 kHz to 30 MHz		Mains	
EUT mode		Test configuration mode		1, 2, 3, 4	
(Refer te	o clauses 4)	EUT Operation mode		1, 2, 3, 4	
		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	2.36 dB
(95 %, Confidence level, $k = 2$ )	

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	ESU8	ROHDE& SCHWARZ	100299	2018.03.13	2019.03.13		
LISN	NSLK 8128 RC	SCHWARZBECK	8128 RC-387	2017.11.10	2018.11.10		
LISN	NSLK 8128 RC	SCHWARZBECK	8128 RC-388	2017.11.10	2018.11.10		
PULSE LIMITER	ESH3-Z2	ROHDE& SCHWARZ	102491	2017.08.08	2018.08.08		
50 OHM TERMINATOR	CT-01	TME	N/A	2017.12.26	2018.12.26		



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





Frequency[Hz]



DT&C Date 2018-04-02

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1802-01423 120 V 60 Hz 19 'C 43 % R.H. 100.9 kPa Data trans + Front camera

LIMIT : CISPR32\_B QP CISPR32\_B AV

NO	FREQ	READING	C.FACTOR	RESULT	LIMIT	MARGIN	PHASE
	[MHz]	QP CAV [dBuV] [dBuV]	[dB]	QP CAV [dBuV][dBuV	QP CAV ] [dBuV][dBuV	QP CAV ] [dBuV][dBuV	7]
1	0.16814	51.53 37.71	9.95	61.4847.66	65.05 55.05	3.57 7.39	Ν
2	0.22415	42.4828.09	9.94	52.4238.03	62.66 52.66	10.24 14.63	Ν
3	0.23710	41.14 27.72	9.94	51.0837.66	62.20 52.20	11.12 14.54	Ν
4	22.14835	28.6118.66	10.28	38.8928.94	60.00 50.00	21.11 21.06	Ν
5	0.17019	49.9736.31	9.90	59.8746.21	64.95 54.95	5.08 8.74	L1
6	0.22839	41.95 30.00	9.94	51.8939.94	62.51 52.51	10.6212.57	L1



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







DT&C Date 2018-04-02

Order No. Power Supply Temp/Humi/Atm Test Condition DTNC1802-01423 120 V 60 Hz 19 'C 43 % R.H. 100.9 kPa Charging + Rear camera

LIMIT : CISPR32\_B QP CISPR32\_B AV

NO	FREQ	READING	C.FACTOR	RESULT	LIMIT	MARGIN	PHASE
		QP CAV		QP CAV	QP CAV	QP CAV	
	[MHz]	[dBuV] [dBuV	[dB]	[dBuV] [dBuV	] [dBuV][dBuV	] [dBuV][dBuV	7]
1	0.57403	26.6120.09	10.00	36.6130.09	56.00 46.00	19.3915.91	Ν
2	2.00214	26.60 21.21	10.05	36.6531.26	56.00 46.00	19.35 14.74	Ν
3	0.15095	43.4320.62	9.94	53.3730.56	65.95 55.95	12.58 25.39	L1
4	0.18257	42.24 24.54	9.94	52.1834.48	64.37 54.37	12.19 19.89	L1

Calculation

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

### 7.2 Radiated Disturbance

ANSI C63.4		Radiated distur	bance 30	MHz –1	8 GHz		Result
Method:       Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used.         EUT mode       Test configuration mode       1, 2, 3, 4				Comply			
EU	EUT modeTest configuration mode1, 2, 3, 4						
(Refer t	to clauses 4)	EUT Opera	tion mode		1, 2,	3, 4	
		Radiated Disturb	ance belov	v 1 000 N	1Hz		
Frequency range Quasi-peak limit dBµV/m							
	(MHz)	Class A (10	m distance	e)	Class B (3 r	n distan	ce)
3	0 to 88	39	).1		40	0	
88	3 to 216	43	3.5		43	.5	
21	6 to 960	46	5.4		46		
960	) to 1 000	49	0.5		54	4	
According to 15 comply with the	5.109(g), as an alterna e standards(CISPR), P	tive to the radiated er ub. 22 shown as belo	mission limit ow.	shown a	bove, digital devices m	nay be sh	own to
Frequ	ency range		Qu	asi-peak	limit dBµV/m		
	(MHz)	Class A (10	m distance	e)	Class B (10 m distance)		
30	) to 230	4	0		30		
230	) to 1 000	4	7	37			
	Radiated Disturb	ance for above 1 00	00 MHz at a	measur	ement distance of 3	m	
Frequ	ency range	Peak limi	t dBµV/m		Average lin	nit dBµV	/m
	(GHz)	Class A	Class	s B	Class A	Cl	ass B
1	1 to 40	80	74		60		54
	The test frequency	range of Radiated I	Disturbance	e measur	ements are listed bel	ow.	
Highest or on w	frequency generate hich the device ope	d or used in the de rates or tunes (MHz	vice :)	Upp	er frequency of meas (MHz)	suremer	it range
Below 108			1 000				
108 – 500			2 000				
500 – 1 000			5 000			40.011	
	Above 1	000		5" harn	whichever is lo	equency ower	or 40 GHZ,
Massuramont	uncertainty						

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



Measurement Instrument							
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due		
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A		
EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100469	2017.07.06	2018.07.06		
TRILOG BROAD BAND ANTENNA	VULB9160	SCHWARZBECK	9160-3339	2017.04.21	2019.04.21		
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2018.02.19	2019.02.19		
PRE AMPLIFIER	8449B	H.P	3008A00887	2017.09.06	2018.09.06		
BROAD-BAND HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1014	2016.08.05	2018.08.05		
HORN ANTENNA	EM-6969	ELECTRO-METRICS	156	2018.01.02	2019.01.02		
PREAMPLIFIER	MLA-0618-B03-34	TSJ	1785642	2017.03.02	2019.03.02		
(NOTE : THE MEASUREM	(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 O	EUT Operation mode				
Test voltage (V)	120	Test F	requency (Hz)	60			
RADIATED EMISSION							
 Date 2018-03-29							
Order No. DTNC1802	01423						
Temp/Humi 22 'C 43 %	R.H. Front camera						
Memo	r tone ou mora						
LIMIT : FCC Part15 Subpart.B Class	B (3m)						
MARGIN: 3 dB							
[dBuV/m] < <qp data="">:</qp>			HORIZONTAL				
60							
50							
4 0							
30							
20							
	)0	200 300	500 700 1000				
			Frequency[MHz]				
[dBuV/m] < <qp data="">:</qp>			VERTICAL				
60							
50							
4 0			*				
30	*						
		. Understille filler A					
	NALL AND A STATE						
	0	200 300	500 700 1000				
50 50 70 .	,	200 300	Frequency[MHz]				



Date 2018-03-29

Order No. Power Supply	DTNC1802-01423 120 V 60 Hz
i emp/Humi	22 °C 43 % R.H.
Test Condition	Data trans + Front camera

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE			
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]			
	Horizon	tal											
1 2	72.437 600.002	45.90 40.10	9.66 20.30	1.41 4.33	25.53 25.24	31.44 39.49	40.00 46.00	8.56 6.51	300 100	1 135			
	Vertical												
3 4	124.452 600.002	44.20 40.80	11.78 20.30	1.80 4.33	25.56 25.24	32.22 40.19	43.50 46.00	11.28 5.81	100 100	1 358			



	e at (1 ~ 6) Gi	nz _Peak measu	rement data
est configuration mode	1	EUT O	peration mode
Test voltage (V)	120	Test F	requency (Hz)
	RADIATE		N
<u>-</u>			
	403		Date 2010-03-29
Power Supply120 V 60 HzTemp/Humi22 'C 43 % RTest ConditionData trans + Fr	R.H. ront camera		
Memo			
LIMIT:FCC Part15 Subpart.B Class B( FCC Part15 Subpart.B Class B(	(3m) - 18G(Peak) (3m) - 18G(Avg)		
_ [dBuV/m] < <peak data="">&gt;</peak>			HORIZONTAL
0			
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1000	2000	3000	5000 6000
[dBuV/m] < <peak data="">&gt;</peak>			⊢requency[MHz] VERTICAL
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Date 2018-03-29

Order No.
Power Supply
Temp/Humi
Test Condition

DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Data trans + Front camera

Memo

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

1	۰o،	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	]	Horizont	al								
-	1 2	1599.37 4996.87	548.302 542.103	4.86 1.55	4.20 10.07	32.35 32.23	45.01 51.49	74.0 74.0	28.99 22.51	100 100	124 359
	1	Vertical									
1	3 1	1599.37 4971.87	548.702 542.103	4.86 1.51	4.20 10.05	32.35 32.24	45.41 51.42	74.0 74.0	28.59 22.58	100 100	358 176



est configuratio	n mode	1	EUT	T Operation mod	0
		1	-		
l est voltage	(V)	120	165	st Frequency (Hz	.)
	R	ADIATE	D EMISS	ION	
	<u> </u>			Dete	018 02 00
		0		Date 2	2010-03-29
Power Supply	120 V 60 Hz				
Temp/Humi Test Condition	22 °C 43 % R.H Data trans + Fror	l. nt camera			
Memo					
LIMIT : FCC Par	t15 Subpart.B Class B (3n	n) - 18G(Avg)			
FCC Par	t15 Subpart.B Class B (3n	n) - 18G(Peak)			
[dBuV/m]	< <av data="">&gt;</av>			н	DRIZONTAL
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0	20	0.0	3000	<u> </u>	000 6000
				Free	quency[MHz]
[dBuV/m]	< <av data="">&gt;</av>				VERTICAL
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	ารมากระทั่งการทำการเหตุลาย เมืองการเป็นเกม	and the second second second second	NAMESON AND A DESCRIPTION OF A DESCRIPTI		
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Date 2018-03-29

Order No.
Power Supply
Temp/Humi
Test Condition

DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Data trans + Front camera

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
 	Horizont	al								
1 2	1599.375 4996.875	42.30 31.30	24.86 31.55	4.20 10.07	32.35 32.23	39.01 40.69	54.00 54.00	14.99 13.31	100 100	124 359
 	Vertical									
3 4	1599.375 4971.875	43.90 30.80	24.86 31.51	4.20 10.05	32.35 32.24	40.61 40.12	54.00 54.00	13.39 13.88	100 100	358 176



st configurati	on mode		1	E	UT Operation mode
Test voltan	۵ (V)		120		Cest Frequency (Hz)
Test voltage	e (V)		120		
		_			0.0N
		<u>R</u>	<u>ADIA I</u>	ED EMIS	SION
					Date 2018-03-2
Order No. Power Supply Temp/Humi Test Condition	DTNC 120 V 22 'C Data t	01802-0142 60 Hz 43 % R.H. trans + Fror	3 nt camera		
LIMIT : FCC Pa FCC Pa	art15 Subpart.B art15 Subpart.B	Class B (3n Class B (3n	n) - 18G(Peal n) - 18G(Avg)	<)	
[dBuV/m]	< <peak< td=""><td>DATA&gt;&gt;</td><td></td><td></td><td>HORIZONT</td></peak<>	DATA>>			HORIZONT
hay in card a little in the states	a shirida a	teles de la constitución de la cons			
000 70	)00	I	10000		180
[dBu\//m]					Frequency[MI
	PEAR	DATA			VERTIC
la vita i date è l <sup>a fact</sup> e d'Attilite, comerce	, and the fille of the second s	datus datakan setilakan s			
	a na si n Na si na s			and a final strategy of the	
1					

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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Data trans + Front camera

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	1] [dB]	[cm]	[DEG]
	Horizon	tal								
1	17295.0	0032.203	7.78	13.40	36.55	46.83	74.0	27.17	100	1
	Vertica	1								
2 3	9904.50 17263.5	0 36.10 3 0029.80 3	2.25 7.74	11.14 13.39	38.08 36.50	41.41 44.43	74.0 74.0	32.59 29.57	100 100	175 1



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

Date 2018-03-29

Order No.	
Power Supply	
Temp/Humi	
Test Condition	

dition Data trans + Front camera

DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H.

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



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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Data trans + Front camera

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	Horizont	al								
1	17295.00	021.60	37.78	13.40	36.55	36.23	54.00	17.77	100	1
	Vertical	L								
2 3	9904.500 17263.50	23.40 021.50	32.25 37.74	11.14 13.39	38.08 36.50	28.71 36.13	54.00 54.00	25.29 17.87	100 100	175 1



Tes	st config	guratio	on m	ode					2		EUT	Opera	ation	mod	е		
	Test v	oltage	e (V)						120		Tes	t Freq	uency	(Hz	)		
								<u>RAD</u>	<u>IATE</u>	<u>D EN</u>	IISSI	<u>ON</u>	_				
	Order No Power S Temp/Hu Test Cor	o. upply umi ndition		[ 1 2 0	0TNC 20 V 2 'C Charg	C180 / 60 43 ' ging	)2-( Hz % F + F	)1423 R.H. Rear camer	a				D	ate 2	2018-	.03-29	
	Memo LIMIT : F	-CC Pa MARGII	rt15 S V: 3 dl	iubpa 3	art.B	Cla	ss E	3 (3m)									
	[dBuV/m	1]		< <q< td=""><td>P D</td><td>ΑΤΑ</td><td>.&gt;&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td>нс</td><td>ORIZ</td><td>ΟΝΤΑ</td><td>١L</td></q<>	P D	ΑΤΑ	.>>							нс	ORIZ	ΟΝΤΑ	١L
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60																	
50														_			
40														-			]
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20 10	Whythere	W	MW	V	VV	Y		MM		- MUMM							
0																	
	30 [dBuV/m	5	0	7 < <q< td=""><td>0 PD</td><td>ΑΤΑ</td><td>10</td><td>0</td><td>2</td><td>00</td><td>300</td><td></td><td>500</td><td>7 Freq</td><td>00 Juenc</td><td>100 sy[MH:</td><td>0 z]</td></q<>	0 PD	ΑΤΑ	10	0	2	00	300		500	7 Freq	00 Juenc	100 sy[MH:	0 z]
70		r.															
60																	-
50														_			
40														×			]
30			J.						,								
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10				V	ĮĮ	1	· '	1 1	1	TRANS		<b>C</b>					_

Frequency[MHz]



Date 2018-03-29

Order No.	DTNC1802-01423
Power Supply	120 V 60 Hz
Temp/Humi	22 'C 43 % R.H.
Test Condition	Charging + Rear camera

Memo

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

Nc	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2	196.715 600.002	43.30 40.80	9.93 20.30	2.29 4.33	25.52 25.24	30.00 40.19	43.50 46.00	13.50 5.81	200 200	1 359
	Vertica	1								
3 4 5	52.795 87.957 600.002	40.60 44.20 40.20	11.96 7.32 20.30	1.13 1.41 4.33	25.51 25.54 25.24	28.18 27.39 39.59	40.00 40.00 46.00	11.82 12.61 6.41	200 300 100	302 0 297



est configuration mode	2	EUT C	peration mode
Test voltage (V)	120	Test F	Frequency (Hz)
D			N
<u> </u>			<u>///</u>
			Date 2018-03-29
Order No. DTNC1802-01423 Power Supply 120 V 60 Hz	3		
Temp/Humi 22 'C 43 % R.H Test Condition Charging + Rear	camera		
Memo			
LIMIT : FCC Part15 Subpart.B Class B (3n	n) - 18G(Peak)		
FCC Part15 Subpart.B Class B (3m	n) - 18G(Avg)		
[dBuV/m] < <peak data="">&gt;</peak>			HORIZONTAL
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70			
60			
50 φ	9		
10 June with a second with the second se	an internet internet in the	the hear the production of the section and the section of the sect	
30			
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1000 20	00	3000	5000 6000
			Frequency[MHz]
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30			
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10			



Date 2018-03-29

Order No.
Power Supply
Temp/Humi
Test Condition

DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Charging + Rear camera

Memo

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

No.	. FREQ	READING	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	1] [dB]	[cm]	[DEG]
	Horizont	al								
1 2	1599.37 2133.12	5 50.502 5 48.602	4.86 7.37	4.20 4.83	32.35 32.53	47.21 48.27	74.0 74.0	26.79 25.73	100 100	1 210
	Vertical									
3	1599.37	5 51.40 2	4.86	4.20	32.35	48.11	74.0	25.89	100	358



Test configuration mode       2       EUT Operation mode         Test voltage (V)       120       Test Frequency (Hz)         Condext No.       DTNC1802-01423       Date 2018-0         Power Supply       120 V 60 Hz       Date 2018-0         Test Condition       Charging + Rear camera       Memo         LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg) FCC Part15 Subpart.B Class B (3m) - 18G(Peak)       HORIZO         GlauV/m]       <-AV DATA>>       HORIZO         40	
Test voltage (V)       120       Test Frequency (Hz)         RADIATED EMISSION         Date 2018-1         Order No.       DTNC1802-01423         Power Supply       120 V 60 Hz         Test Condition       Charging + Rear camera         Memo       LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)         FCC Part15 Subpart B Class B (3m) - 18G(Peak)         Of definition       CAV DATA>>       HORIZO         Image: Colspan="2">Memo         Image: Colspan="2">Colspan="2">Colspan="2">HORIZO         Image: Colspan="2">Image: Colspan="2">HORIZO         Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Image: Colspan="2" Imag	
RADIATED EMISSION         Date 2018-1         Order No.       DTNC1802-01423         Power Supply       120 V 60 Hz       Emp/Humi       22 'C 43 % R.H.         Test Condition       Charging + Rear camera       Memo         LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)       FCC Part15 Subpart.B Class B (3m) - 18G(Peak)         0	
Date 2018-1         Order No.       DTNC1802-01423         Power Supply       120 V 60 Hz         Temp/Humi       22 'C 43 % R.H.         Test Condition       Charging + Rear camera         Memo       LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)         FCC Part15 Subpart.B Class B (3m) - 18G(Peak)         Image: Provide a structure of the structure	
Memo         LIMIT : FCC Part15 Subpart. B Class B (3m) - 18G(Avg) FCC Part15 Subpart. B Class B (3m) - 18G(Peak)           90         [dBuV/m] << <a>AV DATA&gt;&gt;         HORIZO     </a> 90	-03-29
IdBuV/m]     <     HORIZ       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0       0     0     0     0	
	ONTAL
30	
20	
10	
Frequenc	cy[MHz]
[dBuV/m]     < <av data="">&gt;     VER</av>	RTICAL
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	latente Mademiliation pro- Tradationen
4.0 An	
30	
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Date 2018-03-29

Order No.
Power Supply
Temp/Humi
Test Condition

DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Charging + Rear camera

Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizont	al								
1 2	1599.375 2133.125	42.90 38.20	24.86 27.37	4.20 4.83	32.35 32.53	39.61 37.87	54.00 54.00	14.39 16.13	100 100	1 210
	Vertical	L								
3	1599.375	44.40	24.86	4.20	32.35	41.11	54.00	12.89	100	358



EUT Operation mode	2	mode	configuration
	120	V)	Test voltage (
	120	• ,	issi isliage (
<u>EMISSION</u>	ADIATED	<u>R</u>	
Date 2018-03-29			
	3	DTNC1802-0142	Order No.
		22 'C 43 % R.H.	Temp/Humi
	camera	Charging + Rear	lest Condition
	) - 18G(Peak)	5 Subpart B Class B (3r	
	n) - 18G(Avg)	5 Subpart.B Class B (3r	FCC Part1
HORIZONTAL		< <peak data="">&gt;</peak>	[dBuV/m]
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18000	10000	· · ·	00 7000
Frequency[MHz]			
VERTICAL			
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	1		

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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Charging + Rear camera

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	1] [dB]	[cm]	[DEG]
	Horizon	tal								
1	17207.2	5029.503	7.67	13.35	36.42	44.10	74.0	29.9	100	1
	Vertica	1								
2 3	10583.2 17226.7	5034.503 5032.003	2.49 7.70	11.40 13.37	37.70 36.44	40.69 46.63	74.0 74.0	33.31 27.37	100 100	358 1



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

Date 2018-03-29

Order No.	
Power Supply	
Temp/Humi	
Test Condition	

y 120 V 60 Hz 22 'C 43 % R.H. on Charging + Rear camera

DTNC1802-01423

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



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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 120 V 60 Hz 22 'C 43 % R.H. Charging + Rear camera

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	Horizont	al								
1	17207.25	021.40	37.67	13.35	36.42	36.00	54.00	18.00	100	1
	Vertical	L								
2 3	10583.25 17226.75	023.30 021.50	32.49 37.70	11.40 13.37	37.70 36.44	29.49 36.13	54.00 54.00	24.51 17.87	100 100	358 1



Test confi	guratio	on m	ode				3			EUT O	perati	ion m	node		
Test	voltage	e (V)					120			Test F	reque	ency	(Hz)		
							RADIA	TED E	EMIS	SSIC	<u>N</u>				
Order N Power S Temp/H Test Co	lo. Supply lumi ondition		L E 2 N	DTNC Batte 2 'C 1P3	C180 ry 43 '	)2-0 % R	1423 .H.					Da	te 20 <sup>.</sup>	18-03	-29
Memo	500 B	45.0				_									
LIMIT :	FCC Pai MARGIN	rt15 S N: 3 dE	ubpa 3	art.B	Cla	ss E	s (3m)								
[dBuV/r	n]		< <c< td=""><td>PD</td><td>ATA</td><td>.&gt;&gt;</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>HOF</td><td>NOZIA</td><td>ITAL</td></c<>	PD	ATA	.>>				1			HOF	NOZIA	ITAL
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		0		0		10	0	200	2	2.0			700		
50	J	0	(	0		10	0	200	5	50		00 I	Freque	ency[l	MHz]
70 [dBuV/r	n]		< <g< td=""><td>PD</td><td>ATA</td><td>.&gt;&gt; </td><td></td><td></td><td></td><td></td><td></td><td></td><td>\      </td><td>/ERTI</td><td></td></g<>	PD	ATA	.>> 							\ 	/ERTI	
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	n and they are	<mark>₩ 12.001</mark>	W	<sup>¶</sup>			<mark>1<sup>nd</sup> Angelerensense</mark>			lles a					



Date 2018-03-29

Order No.DTNC1802-01423Power SupplyBatteryTemp/Humi22 'C 43 % R.H.Test ConditionMP3

Memo

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

Nc	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2	72.437 600.002	46.30 36.30	9.66 20.30	1.41 4.33	25.53 25.24	31.84 35.69	40.00 46.00	8.16 10.31	300 100	105 237
	Vertica	1								
3 4	79.955 600.002	46.10 36.10	7.81 20.30	1.51 4.33	25.53 25.24	29.89 35.49	40.00 46.00	10.11 10.51	400 100	245 1



Radiat	ea aisturbance	at (1 ~ 6) Gi	nz _Peak	measurer	nent data	
est configuration	mode	3		EUT Oper	ation mode	9
Test voltage (V	)	120		Test Free	uency (Hz)	
	R		<u>D EMI</u>	<u>SSION</u>		
Order No. Power Supply Temp/Humi Test Condition	DTNC1802-0142 Battery 22 'C 43 % R.H MP3	3 I.			Date 2	018-03-29
Memo						
LIMIT : FCC Part15 FCC Part15	Subpart.B Class B (3r Subpart.B Class B (3r	n) - 18G(Peak) n) - 18G(Avg)				
[dBuV/m]	< <peak data="">&gt;</peak>				нс	
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1000	20	,,	5000		Freq	uency[MHz]
[dBuV/m]	< <peak data="">&gt;</peak>	1			1	VERTICAL
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Date 2018-03-29

Order No.
Power Supply
Temp/Humi
Test Condition

DTNC1802-01423 Battery 22 'C 43 % R.H. MP3

Memo

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

N	ο.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	] [dB]	[cm]	[DEG]
	— F	Horizont	al								
1 2		1599.375 5080.625	5 47.502 5 42.803	4.86	4.20 9.88	32.35 32.29	44.21 51.99	74.0 74.0	29.79 22.01	100 100	358 296
	- 1	/ertical									
3 4		1599.375 2132.500	5 50.202 0 50.402	4.86 7.36	4.20 4.83	32.35 32.53	46.91 50.06	74.0 74.0	27.09 23.94	100 100	1 1



	Radiated	l disturbance	e at (1 ~ 6) G	Hz _Aver	age measur	ement dat	а
Test confi	guration n	node	3		EUT Ope	ration mode	9
Test	voltage (V)		120		Test Free	quency (Hz)	
						-	
			KAUIAT		MI22ION	<u>l</u>	
						Date 2	018-03-29
Order N Power S Temp/H Test Co	io. Supply lumi ndition	DTNC1802-0 Battery 22 'C 43 % MP3	1423 R.H.				
Memo							
LIMIT :	FCC Part15 FCC Part15	Subpart.B Class E Subpart.B Class B	8 (3m) - 18G(Avg) 8 (3m) - 18G(Peal	<)			
[dBuV/r	n]	< <av data="">&gt;</av>				НС	
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			2000	50	* *	Freq	uency[MHz]
[dBuV/r	n]	< <av data="">&gt;</av>					VERTICAL
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Date 2018-03-29

Memo

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

Ν	ο.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	— Н	orizont	al								
1 2	1: 5:	599.375 )80.625	42.60 31.00	24.86 31.60	4.20 9.88	32.35 32.29	39.31 40.19	54.00 54.00	14.69 13.81	100 100	358 296
	- V	ertical									
3 4	1 2	599.375 132.500	44.40 38.00	24.86 27.36	4.20 4.83	32.35 32.53	41.11 37.66	54.00 54.00	12.89 16.34	100 100	1 1



L COMPUTATION II	node	3	EUT Operation mode
Test voltage (V)	·····	120	
Test voltage (v)		120	Test Trequency (12)
	-		
	R		DEMISSION
			Date 2018-03-29
Order No. Power Supply	DTNC1802-0142 Battery	3	
Temp/Humi Test Condition	22 'C 43 % R.H MP3		
LIMIT : FCC Part15 S	Subpart.B Class B (3r	n) - 18G(Peak)	
FCC Partis	Suppart.B Class B (3r	n) - 18G(AVg)	
[dBuV/m]	< <peak data="">&gt;</peak>		HORIZONTAL
			0
naineprodukteriden (berandinadi ni mine			
		10000	18000
		10000	18000 Frequency[MHz]
(dBuV/m)	<peak data="">&gt;</peak>	10000	18000 Frequency[MHz] VERTICAL
000 7000 [dBuV/m]	< <peak data="">&gt;</peak>	10000	18000 Frequency[MHz] VERTICAL
[dBuV/m]	< <peak data="">&gt;</peak>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	< <peak data="">&gt;</peak>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	< <peak data="">&gt;</peak>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	< <peak data="">&gt;</peak>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	< <peak data="">&gt;</peak>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	<-PEAK DATA>>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	<-PEAK DATA>>		18000 Frequency[MHz] VERTICAL
[dBuV/m]	<-PEAK DATA>>		18000 Image and Imag Image and Image

Frequency[MHz]

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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition

DTNC1802-01423 Battery 22 'C 43 % R.H MP3

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	1] [dB]	[cm]	[DEG]
	Horizon	tal								
1 2	9890.25 17050.5	0 35.703 0032.203	2.24 7.49	11.17 13.42	38.07 36.18	41.04 46.93	74.0 74.0	32.96 27.07	100 100	356 239
	Vertica	l								
3	17034.0	0031.603	7.47	13.43	36.15	46.35	74.0	27.65	100	166



Radiated disturbance at	(6 ~ 18) GH	z _Average measurement data	
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60

Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 Battery 22 'C 43 % R.H MP3

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



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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 Battery 22 'C 43 % R.H MP3

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2	9890.250 17050.50	)23.40 )021.30	32.24 37.49	11.17 13.42	38.07 36.18	28.74 36.03	54.00 54.00	25.26 17.97	100 100	356 239
	Vertica	1								
3	17034.00	021.20	37.47	13.43	36.15	35.95	54.00	18.05	100	166



EUT Operation mode	Test configuration mode							
Test Frequency (Hz)	120		: (V)	Test voltage				
<u>D EMISSION</u>	ADIATE	<u>R</u>						
Date 2018-03-29	3	Order No. DTNC1802-01423 Power Supply Battery Temp/Humi 22 'C 43 % R.H. Test Condition MP4						
			Memo					
	))	part.B Class B (3n	t15 Subpart.l I: 3 dB	LIMIT : FCC Par MARGIN				
HORIZONTAL		QP DATA>>	< <qp< td=""><td>[dBuV/m]</td></qp<>	[dBuV/m]				
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A Martin Martin Martin	I			Λ.				
		Multin						
				WWW JUP WENNEN				
200 300 500 700 1000	2	70 100	0 70	30 50				
Frequency[MHz]								
		QP DATA>>	< <qp< td=""><td>[dBuV/m]</td></qp<>	[dBuV/m]				
	t.							
	Winderstein	pr v m v v	AAAAAM	MALAMAN				



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition

DTNC1802-01423 Battery 22 'C 43 % R.H. MP4

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]
	Horizon	tal								
1	72.437	46.20	9.66	1.41	25.53	31.74	40.00	8.26	300	115
2	600.002	36.20	20.30	4.33	25.24	35.59	46.00	10.41	300	352
	Vertica	1								
3	533.300	36.40	18.37	4.07	25.35	33.49	46.00	12.51	100	193



Test configuration mode 4 EUT Operation mode									
	120	Toot 5							
	120	Test P							
	RADIATE	<u>D EMISSIO</u>	N						
			Date 2018-03-29						
Order No. DTNC1802-0 <sup>-</sup> Power Supply Batterv	1423								
Temp/Humi 22 'C 43 % Test Condition MP4	R.H.								
Memo									
LIMIT : FCC Part15 Subpart.B Class B	(3m) - 18G(Peak)								
FCC Part15 Subpart.B Class B	(3m) - 18G(Avg)								
0 [dBuV/m] < <peak data=""></peak>	>		HORIZONTAL						
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[dBuV/m] < <peak data=""></peak>	>		VERTICAL						
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Date 2018-03-29

Test Condition MP4	NC1802-01423 tery 'C 43 % R.H. '4
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Memo

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

No.	FREQ	READING	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	1600.00 2133.12 5037.50	0 48.302 5 49.402 0 42.503	4.86 7.37 1.57	4.20 4.83 9.99	32.35 32.53 32.26	45.01 49.07 51.80	74.0 74.0 74.0	28.99 24.93 22.2	100 100 100	353 358 325
 	Vertical									
4 5	1600.00 2133.12	0 52.902 5 50.902	4.86 7.37	4.20 4.83	32.35 32.53	49.61 50.57	74.0 74.0	24.39 23.43	100 100	183 230



Radiated disturbance at (1 ~ 6) GHz _Average measurement data										
est configura	tion mode	4		EUT Oper	ation mode	9				
Test volta	ge (V)	120		Test Free	uency (Hz)					
	R	ADIATE	D EM	IISSION						
	<u> </u>				Date 2	018-03-29				
Order No. Power Supply Temp/Humi Test Conditio	DTNC1802-0142 Battery 22 'C 43 % R.F n MP4	3 I.								
Memo										
LIMIT : FCC I FCC I	Part15 Subpart.B Class B (3r Part15 Subpart.B Class B (3r	n) - 18G(Avg) n) - 18G(Peak)								
[dBuV/m]	< <av data="">&gt;</av>	. ,			НС					
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1000	20	00	30.01	0		00 6000				



Date 2018-03-29

Test Condition MP4	NC1802-01423 tery 'C 43 % R.H. '4
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Memo

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
 	Horizont	al								
1 2 3	1600.000 2133.125 5037.500	42.50 38.20 30.80	24.86 27.37 31.57	4.20 4.83 9.99	32.35 32.53 32.26	39.21 37.87 40.10	54.00 54.00 54.00	14.79 16.13 13.90	$   \begin{array}{c}     100 \\     100 \\     100   \end{array} $	353 358 325
 	Vertical									
4 5	1600.000 2133.125	44.00 38.60	24.86 27.37	4.20 4.83	32.35 32.53	40.71 38.27	54.00 54.00	13.29 15.73	100 100	183 230



		EUT Operation mode
t configuration mode	4	EUT Operation mode
Test voltage (V)	120	Test Frequency (Hz)
	RADIATE	<u>DEMISSION</u>
Order No. DTNC1802 Power Supply Battery Temp/Humi 22 'C 43 % Test Condition MP4	-01423 R.H	Date 2018-03-29
LIMIT : FCC Part15 Subpart.B Class FCC Part15 Subpart.B Class	s B (3m) - 18G(Peak) s B (3m) - 18G(Avg)	
[dBuV/m] < <peak dat.<="" td=""><td>A&gt;&gt;</td><td>HORIZONTAL</td></peak>	A>>	HORIZONTAL
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)00 7000	10000	18000
	A	Frequency[MHz]
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	and and a second and the second s	and and the second s
00 7000	10000	18000

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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition

DTNC1802-01423 Battery 22 'C 43 % R.H MP4

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m	ι] [dΒ]	[cm]	[DEG]
	Horizont	al								
1 2	8826.75 17106.7	0 36.403 5028.503	1.74 7.55	10.75 13.40	37.71 36.26	41.18 43.19	74.0 74.0	32.82 30.81	100 100	358 1
	Vertical	L								
3 4	9455.25 17352.7	0 35.803 5032.703	2.03 7.84	10.77 13.43	37.90 36.64	40.70 47.33	74.0 74.0	33.3 26.67	100 100	358 223



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					

Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition DTNC1802-01423 Battery 22 'C 43 % R.H MP4

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



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



Date 2018-03-29

Order No. Power Supply Temp/Humi Test Condition

DTNC1802-01423 Battery 22 'C 43 % R.H MP4

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

No	. FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
	Horizon	tal								
1 2	8826.750 17106.75	23.40 021.20	31.74 37.55	10.75 13.40	37.71 36.26	28.18 35.89	54.00 54.00	25.82 18.11	100 100	358 1
	Vertica	1								
3 4	9455.250 17352.75	23.80 021.00	32.03 37.84	10.77 13.43	37.90 36.64	28.70 35.63	54.00 54.00	25.30 18.37	100 100	358 223

#### Calculation

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



# 8. Revision History

Date	Description	Revised By	Reviewed By
May.31.2018	Initial report	JaeSeok Choi	MyungJin Song

-End of test report-