

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. : DREFCC1912-0330(1)
2. Client / Applicant
 - Name : LG Electronics USA, Inc.
 - Address : 1000 Sylvan Avenue Englewood Cliffs, New Jersey, United States 07632
3. Use of Report : Grant of Certification
4. Product Name / Model Name / FCC ID : Mobile Phone / LM-V600VM / ZNFV600VM
5. Test Standard : ANSI C 63.4 : 2014
FCC Part 15 Subpart B
(Class B personal computers and peripherals)
6. Date of Test : Dec. 06. 2019 ~ Dec. 10. 2019
7. Testing Environment : Temperature (21 ~ 24) °C , Humidity (40 ~ 47) % R.H.
8. Test Result : Refer to the attached Test Result

Affirmation	Tested by	Reviewed by
	Name : JunSeo Park  (Signature)	Name : KyoungHwan Bae  (Signature)

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose.

This test report shall not be reproduced except in full, without the written approval of DT&C Co., Ltd.

Feb. 06. 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.dtc.net>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

DT&C Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Remark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
	South Africa	SABS	0006	ISO/IEC 17025
	Ghana	NCA	NCA agreement 23 rd , Oct, 2018	-
Site Filing	USA	FCC	KR0034 101842 678747, 596748, 804488, 165783	Accredited 2.948 Listed
	Canada	IC	5740A-3 5740A-4	Registered
	Japan	VCCI	C-1427 R-3385, R-4076, R-4180, R-4496, T-1442, G-10338, G-754, G-10815, G-20051	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 089112 0006 Rev.00	ISO/IEC 17025
	Russia	RMRS	17.10189.296	ISO/IEC 17025

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

3. General Information of EUT

Applicant	LG Electronics USA, Inc. 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-V600VM
Add Model Name	LMV600VM, V600VM, LM-V600QM5, LMV600QM5, V600QM5, LM-V600QM6, LMV600QM6, V600QM6
FCC ID	ZNFV600VM
Rated Power	DC 3.85 V
Remarks	None

Accessory

Equipment	No.	Manufacturer	Model Name	Product Number
Ear-Mic	1	Cresyn	-	EAB63728244
	2	Bujeon	-	EAB63728245
Data cable	1	Ningbo	LG0179	EAD65830102
	2	Luxshare	L1LUC014-CS-H	EAD65830101
Wireless Charging	1	Belkin	-	boostup-bold-wireless-charging-pad

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	DISPLAY	EUT Was with H letter output connected to monitor (Earphone : cresyn / bujeon)
2	DATA COMMUNICAITON	EUT was connected NOTEBOOK by USB cable C type and continuously operated (1. cresyn+luxshare 2. cresyn+ningbo / 3. bujeon + luxshare 4. bujeon+ningbo)
3	WIRELESS CHARGING	EUT was at high speed on the wireless charger(Earphone : cresyn / bujeon)

4.3 Test Configuration Mode

No.	Mode	Description
1	DISPLAY	The EUT is connected USB C type TO HDMI by LCD MONITOR (Earphone : cresyn / bujeon)
2	DATA COMMUNICAITON	The EUT is reading, writing, internal storage (1. cresyn+luxshare 2. cresyn+ningbo / 3. bujeon + luxshare 4. bujeon +ningbo)
3	WIRELESS CHARGING	The EUT on the wireless charging pad (Earphone : cresyn / bujeon)

4.4 Supported Equipment

Used*	Product Type	Manufacturer	Model	Remarks
AE	NOTEBOOK	LG	LG15Z96	607NZUD007502
AE	NOTEBOOK ADAPTOR	Genmao Electronics	LCAP48-WK	N/A
AE	SSD	SAMSUNG	MU-PT250B	S2WKNAAH32059X
AE	KEYBOARD	Logitech	Y-U0011	N/A
AE	MOUSE	Logitech	M-U0026	N/A
AE	LCD MONITOR	DELL	P2217H	N/A
AE	Ear MIC	Lenovo	PB2	N/A
AE	wireless charger	belkin	F7U050	26S10EH4840924
AE	wireless charger adaptor	belkin	ADS-26FSG12	N/A
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator				

4.5 EUT In/Output Port

< MODE 1 >

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
HDMI	I/O	2.0	shield	Plastic	LCD MONITOR
POEPOWER	AC	1.8	Non shield	Plastic	
USB	I/O	1.5	Shield	Plastic	EUT
AUX	I/O	1.5	Non shield	Plastic	EUT
*Abbreviations: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port TP = Telecommunication Ports					

< MODE 2 >

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
AUX	I/O	1.5	Non shield	Plastic	EUT
USB	I/O	1.5	Shield	Plastic	EUT
USB(EUT)	I/O	1.3	Non shield	Plastic	NOTEBOOK
USB(MOUSE)	I/O	1.8	Non shield	Plastic	
USB(KEYBOARD)	I/O	1.8	Non shield	Plastic	
USB(SSD)	I/O	1.0	Non shield	Plastic	
HDMI(MONITOR)	I/O	1.8	shield	Plastic	
AUX(EAR MIC)	I/O	1.8	Non shield	Plastic	
DC IN(ADAPTOR)	DC	1.8	Non shield	Plastic	NOTEBOOK ADAPTOR
DC OUT	DC	1.8	Non shield	Plastic	
POEWER	AC	-	Non shield	Plastic	
*Abbreviations:					
AC = AC Power Port		DC = DC Power Port		N/E = Non-Electrical	
I/O = Signal Input or Output Port					
TP = Telecommunication Ports					

< MODE 3 >

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

4.6 Test Voltage and Frequency

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

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	C
Radiated Disturbance	ANSI C63.4 : 2014	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.39750	L1	52.86	Quasi - Peak	57.91	5.05

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
724.554	H	36.6	Quasi - Peak	46.00	4.24

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. ()	Humidity (% R.H.)	Pressure (kPa)
Conducted Disturbance	2019-12-10	24	42	-
Radiated Disturbance	2019-12-06	23	40	-
	2019-12-07	23	40	
	2019-12-08	21	44	
	2019-12-10	23	47	

7. Test Results : Emission

7.1 Conducted Disturbance

ANSI C63.4	Mains terminal disturbance voltage		Result	
<u>Method:</u> The AMN placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment were at least 0,8 m from the AMN. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN. The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and CISPR Average detector. For (0.15 ~ 30) MHz frequency range, Quasi-Peak detector with 10 kHz RBW and 30 kHz VBW was used. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.			Comply	
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Measurement Point		
	150 kHz to 30 MHz	Mains		
EUT mode (Refer to clauses 4)	Test configuration mode	2, 3		
	EUT Operation mode	2, 3		
Limits – Class A				
Frequency (MHz)	Limit dBµV			
	Quasi-Peak	Average		
0.15 to 0.50	79	66		
0.50 to 30	73	60		
Limits – Class B				
Frequency (MHz)	Limit dBµV			
	Quasi-Peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		
Measurement uncertainty				
Expended uncertainty <i>U</i> (95 %, Confidence level, <i>k</i> = 2)		2.44 dB		
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.				

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-C VER. 2.00.0171	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESR7	ROHDE & SCHWARZ	101109	2019.10.24	2020.10.24
LISN	ENV216	ROHDE & SCHWARZ	101979	2019.12.09	2020.12.20
LISN	LISN1600	TTI	197204	2019.06.04	2020.06.04
TRANSIENT LIMITER	TL-B0930A	EMCIS	11002	2019.08.30	2020.08.30
50 OHM TERMINATOR	CT-01	TME	N/A	2018.12.19	2019.12.19

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Ningbo	Ear-Mic	Cresyn

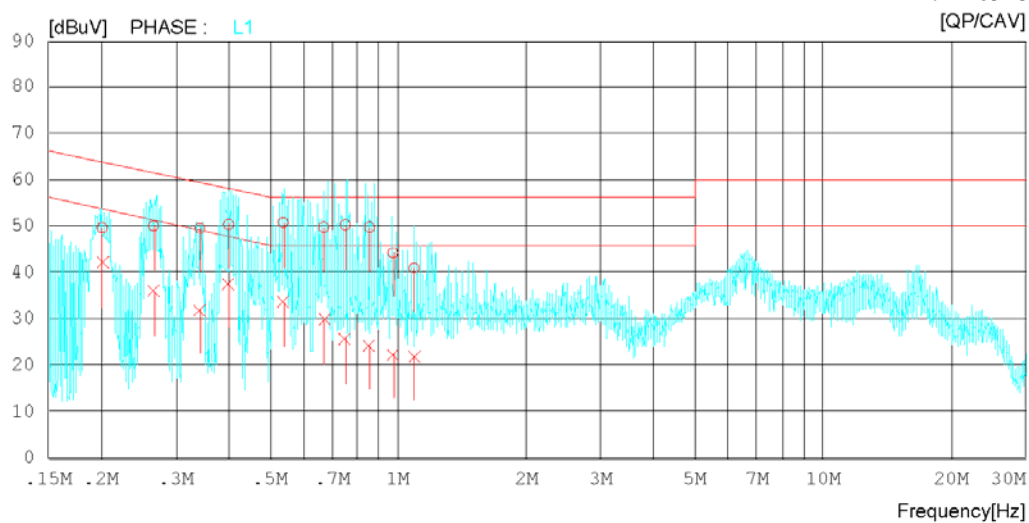
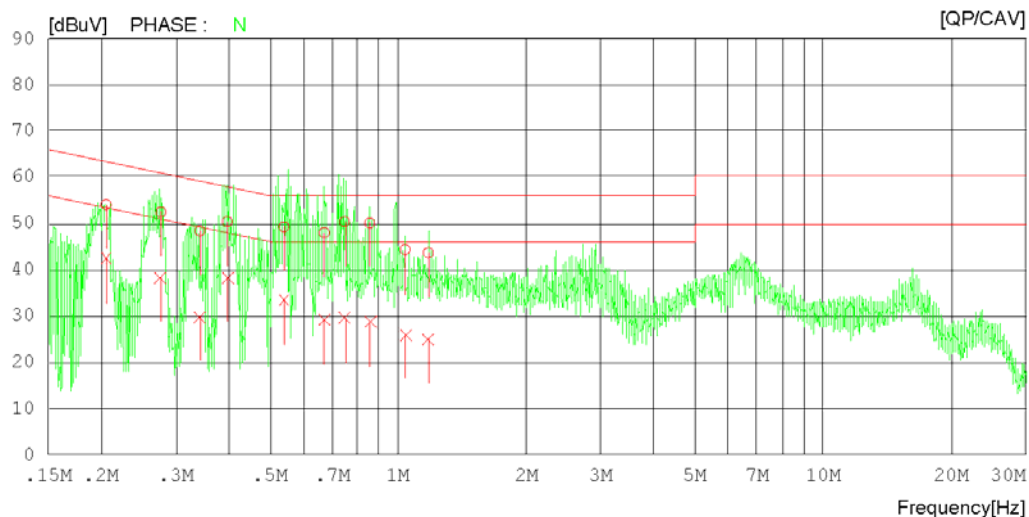
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

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LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.20550	34.10	22.30	19.98	54.08	42.28	63.39	53.39	9.31	11.11	N
2	0.27650	32.60	18.43	19.86	52.46	38.29	60.92	50.92	8.46	12.63	N
3	0.34150	28.33	9.81	20.02	48.35	29.83	59.17	49.17	10.82	19.34	N
4	0.39584	30.20	18.21	20.17	50.37	38.38	57.94	47.94	7.57	9.56	N
5	0.53889	28.99	13.17	20.24	49.23	33.41	56.00	46.00	6.77	12.59	N
6	0.66996	27.80	8.82	20.17	47.97	28.99	56.00	46.00	8.03	17.01	N
7	0.74840	30.20	9.41	20.14	50.34	29.55	56.00	46.00	5.66	16.45	N
8	0.85834	29.90	8.54	20.14	50.04	28.68	56.00	46.00	5.96	17.32	N
9	1.03797	24.20	5.84	20.12	44.32	25.96	56.00	46.00	11.68	20.04	N
10	1.17753	23.60	4.96	20.06	43.66	25.02	56.00	46.00	12.34	20.98	N
11	0.20088	29.65	21.99	20.00	49.65	41.99	63.57	53.57	13.92	11.58	L1
12	0.26580	30.20	16.01	19.84	50.04	35.85	61.25	51.25	11.21	15.40	L1
13	0.34150	29.49	11.85	20.02	49.51	31.87	59.17	49.17	9.66	17.30	L1
14	0.39912	30.12	17.37	20.18	50.30	37.55	57.87	47.87	7.57	10.32	L1
15	0.53601	30.44	13.41	20.24	50.68	33.65	56.00	46.00	5.32	12.35	L1
16	0.66850	29.60	9.51	20.17	49.77	29.68	56.00	46.00	6.23	16.32	L1
17	0.75050	30.11	5.48	20.14	50.25	25.62	56.00	46.00	5.75	20.38	L1
18	0.85607	29.60	4.20	20.14	49.74	24.34	56.00	46.00	6.26	21.66	L1
19	0.97314	24.10	2.35	20.14	44.24	22.49	56.00	46.00	11.76	23.51	L1
20	1.08980	20.85	1.87	20.10	40.95	21.97	56.00	46.00	15.05	24.03	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Ningbo	Ear-Mic	Bujeon

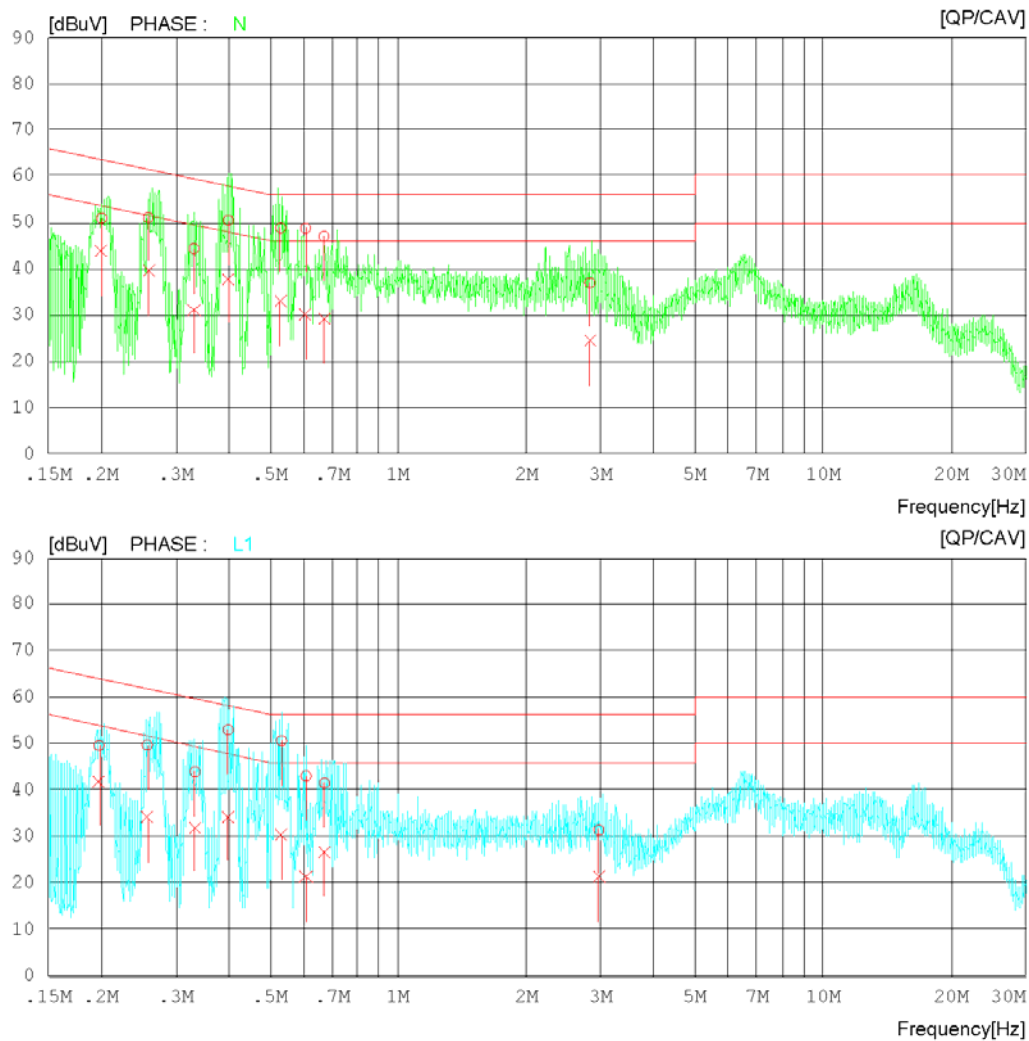
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Date 2019-12-10

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Memo ningbo+bujeon

LIMIT : CISPR32_B QP
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Memo ningbo+bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.20048	30.91	23.64	20.00	50.91	43.64	63.59	53.59	12.68	9.95	N
2	0.25821	31.19	19.76	19.83	51.02	39.59	61.49	51.49	10.47	11.90	N
3	0.33086	24.34	11.20	20.00	44.34	31.20	59.43	49.43	15.09	18.23	N
4	0.39831	30.22	17.55	20.18	50.40	37.73	57.89	47.89	7.49	10.16	N
5	0.52903	28.52	12.60	20.24	48.76	32.84	56.00	46.00	7.24	13.16	N
6	0.60550	28.46	9.76	20.23	48.69	29.99	56.00	46.00	7.31	16.01	N
7	0.66868	26.76	8.89	20.17	46.93	29.06	56.00	46.00	9.07	16.94	N
8	2.82604	16.86	4.35	20.09	36.95	24.44	56.00	46.00	19.05	21.56	N
9	0.19750	29.49	21.79	20.02	49.51	41.81	63.71	53.71	14.20	11.90	L1
10	0.25650	29.81	14.28	19.82	49.63	34.10	61.54	51.54	11.91	17.44	L1
11	0.33289	23.86	11.94	20.01	43.87	31.95	59.38	49.38	15.51	17.43	L1
12	0.39750	32.68	14.10	20.18	52.86	34.28	57.91	47.91	5.05	13.63	L1
13	0.53140	30.30	9.97	20.24	50.54	30.21	56.00	46.00	5.46	15.79	L1
14	0.60689	22.75	1.12	20.23	42.98	21.35	56.00	46.00	13.02	24.65	L1
15	0.67107	21.26	6.50	20.17	41.43	26.67	56.00	46.00	14.57	19.33	L1
16	2.97191	11.31	1.09	20.09	31.40	21.18	56.00	46.00	24.60	24.82	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Luxshare	Ear-Mic	Cresyn

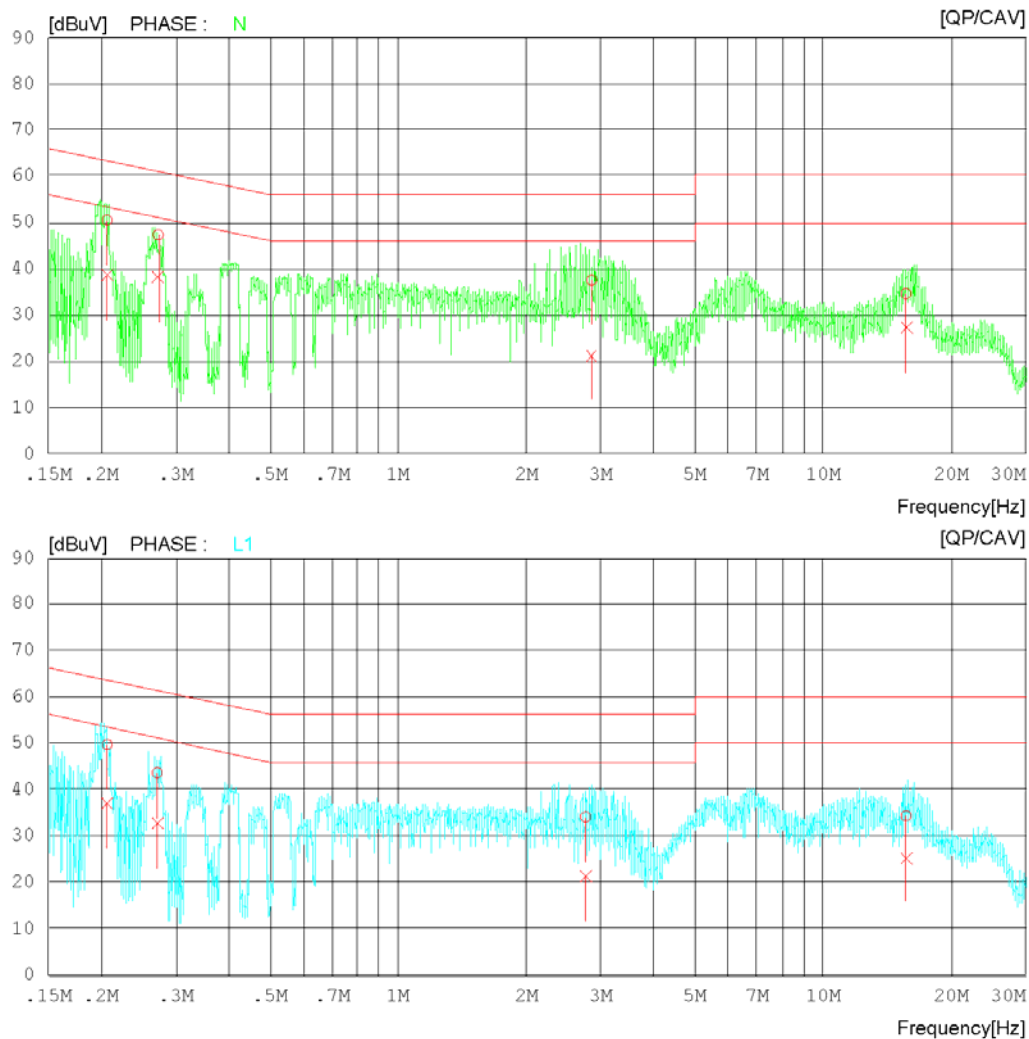
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Temp/Humi/Atm 24 °C 42 % R.H.
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Memo Luxshare+cresyn

LIMIT : CISPR32_B QP
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NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.20650	30.47	18.48	19.97	50.44	38.45	63.35	53.35	12.91	14.90	N
2	0.27250	27.42	18.22	19.85	47.27	38.07	61.04	51.04	13.77	12.97	N
3	2.85368	17.40	1.21	20.10	37.50	21.31	56.00	46.00	18.50	24.69	N
4	15.68429	13.46	6.10	21.15	34.61	27.25	60.00	50.00	25.39	22.75	N
5	0.20650	29.65	16.95	19.97	49.62	36.92	63.35	53.35	13.73	16.43	L1
6	0.27102	23.75	12.77	19.85	43.60	32.62	61.09	51.09	17.49	18.47	L1
7	2.76453	13.94	1.08	20.11	34.05	21.19	56.00	46.00	21.95	24.81	L1
8	15.68805	13.13	4.21	21.15	34.28	25.36	60.00	50.00	25.72	24.64	L1

Mains terminal disturbance voltage _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Luxshare	Ear-Mic	Bujeon

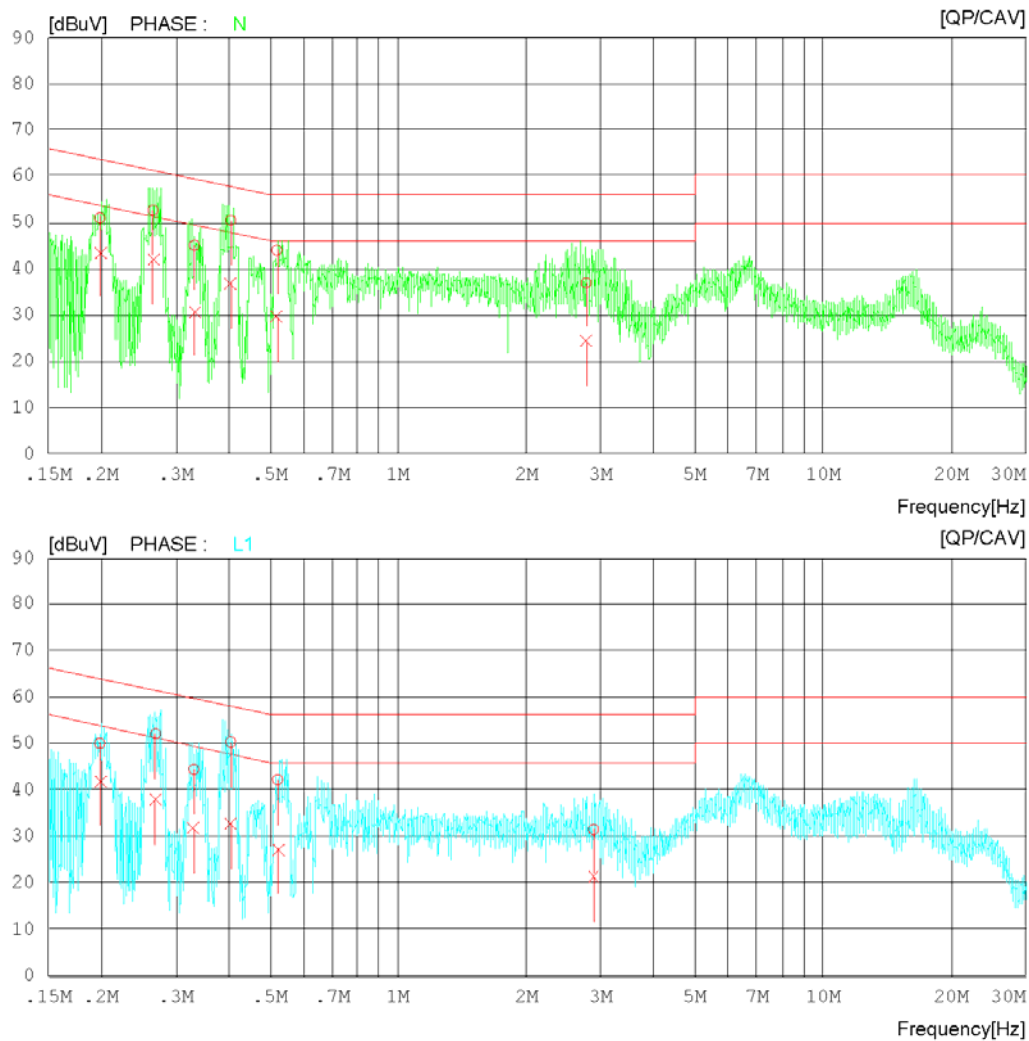
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NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19850	30.95	23.47	20.01	50.96	43.48	63.67	53.67	12.71	10.19	N
2	0.26456	32.79	22.03	19.84	52.63	41.87	61.29	51.29	8.66	9.42	N
3	0.33122	25.03	10.73	20.00	45.03	30.73	59.42	49.42	14.39	18.69	N
4	0.40350	30.21	16.59	20.18	50.39	36.77	57.78	47.78	7.39	11.01	N
5	0.51776	23.74	9.39	20.24	43.98	29.63	56.00	46.00	12.02	16.37	N
6	2.77106	16.84	4.21	20.11	36.95	24.32	56.00	46.00	19.05	21.68	N
7	0.19850	29.97	21.82	20.01	49.98	41.83	63.67	53.67	13.69	11.84	L1
8	0.26850	32.19	17.98	19.85	52.04	37.83	61.16	51.16	9.12	13.33	L1
9	0.33050	24.37	11.64	20.00	44.37	31.64	59.44	49.44	15.07	17.80	L1
10	0.40350	30.08	12.54	20.18	50.26	32.72	57.78	47.78	7.52	15.06	L1
11	0.52047	21.91	6.92	20.24	42.15	27.16	56.00	46.00	13.85	18.84	L1
12	2.88509	11.39	1.26	20.09	31.48	21.35	56.00	46.00	24.52	24.65	L1

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
-	-	Ear-Mic	Cresyn

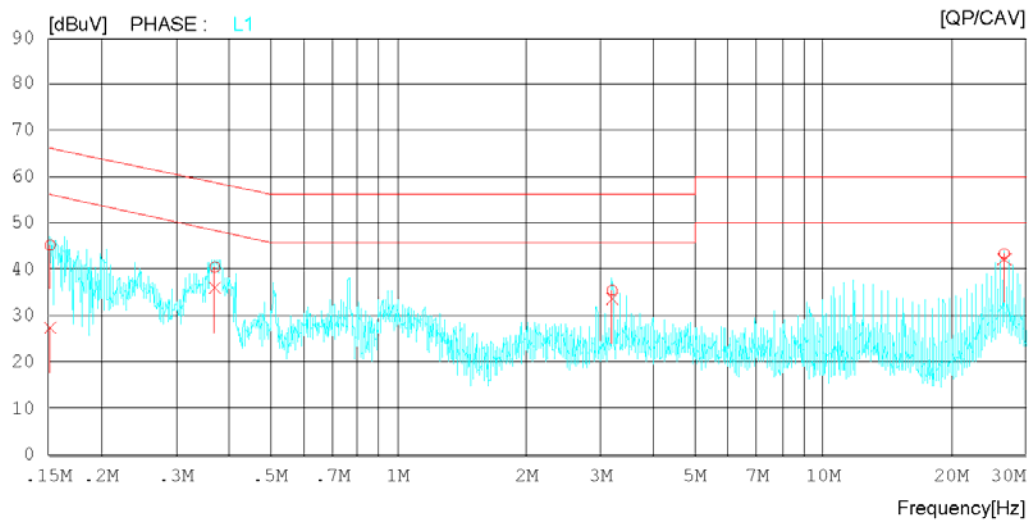
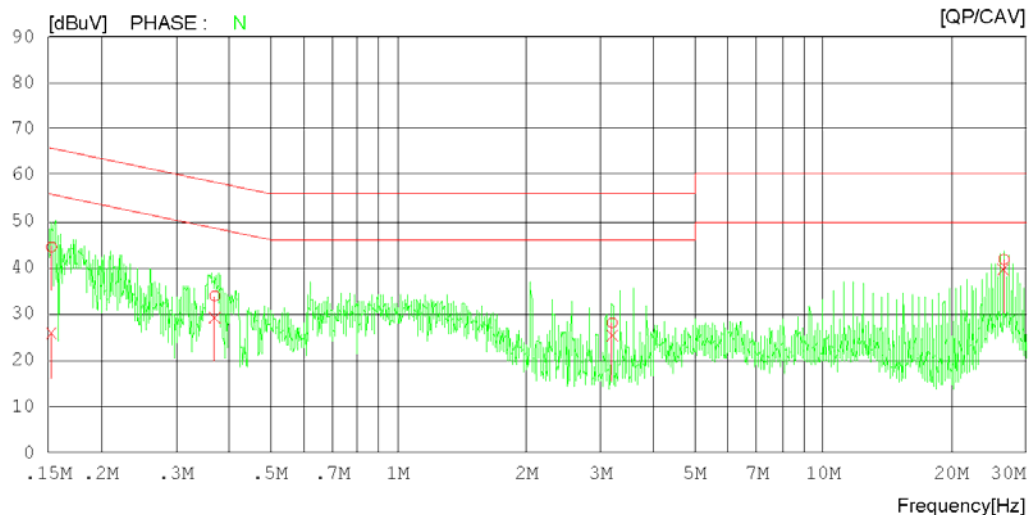
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition wireless

Memo cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 'C 42 % R.H.
Test Condition wireless

Memo cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15272	24.51	5.74	19.95	44.46	25.69	65.85	55.85	21.39	30.16	N
2	0.37050	13.75	9.18	20.10	33.85	29.28	58.49	48.49	24.64	19.21	N
3	3.19345	8.01	5.21	20.09	28.10	25.30	56.00	46.00	27.90	20.70	N
4	26.70503	21.20	19.09	20.56	41.76	39.65	60.00	50.00	18.24	10.35	N
5	0.15184	25.28	7.48	19.94	45.22	27.42	65.90	55.90	20.68	28.48	L1
6	0.37050	20.43	15.90	20.10	40.53	36.00	58.49	48.49	17.96	12.49	L1
7	3.19258	15.37	13.42	20.09	35.46	33.51	56.00	46.00	20.54	12.49	L1
8	26.70734	22.82	21.74	20.56	43.38	42.30	60.00	50.00	16.62	7.70	L1

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

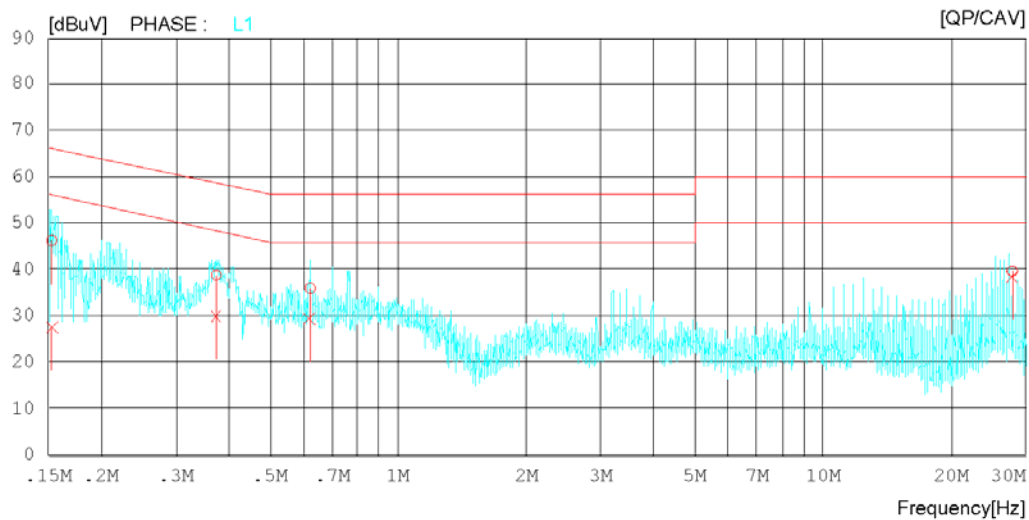
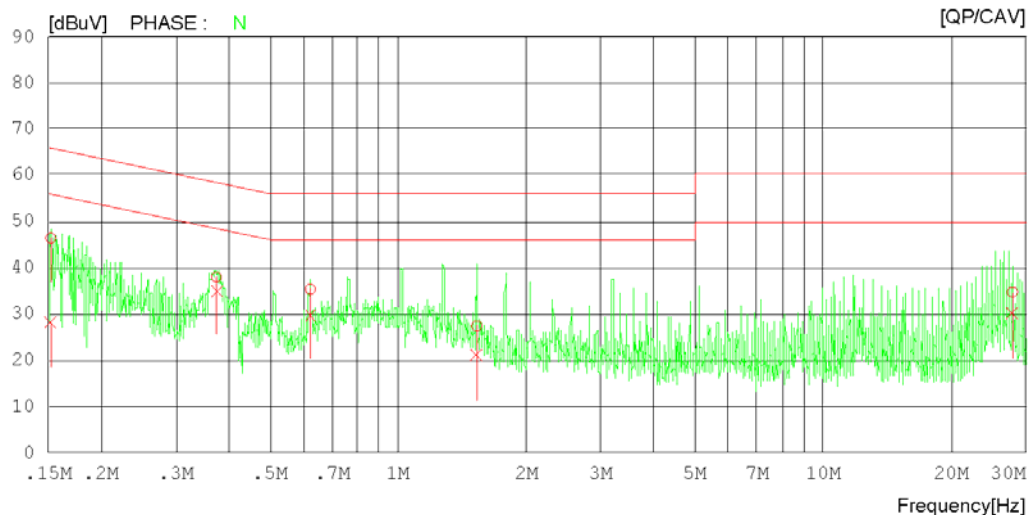
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition wireless

Memo bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 'C 42 % R.H.
Test Condition wireless

Memo bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15225	26.44	8.07	19.94	46.38	28.01	65.88	55.88	19.50	27.87	N
2	0.37337	17.86	14.79	20.11	37.97	34.90	58.43	48.43	20.46	13.53	N
3	0.62137	15.13	9.55	20.22	35.35	29.77	56.00	46.00	20.65	16.23	N
4	1.53240	7.32	0.85	20.06	27.38	20.91	56.00	46.00	28.62	25.09	N
5	27.94408	14.19	9.56	20.54	34.73	30.10	60.00	50.00	25.27	19.90	N
6	0.15301	26.28	7.75	19.96	46.24	27.71	65.84	55.84	19.60	28.13	L1
7	0.37281	18.67	9.92	20.11	38.78	30.03	58.44	48.44	19.66	18.41	L1
8	0.62077	15.69	9.29	20.22	35.91	29.51	56.00	46.00	20.09	16.49	L1
9	27.95247	19.11	17.89	20.54	39.65	38.43	60.00	50.00	20.35	11.57	L1

Calculation

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

7.2 Radiated Disturbance

ANSI C63.4	Radiated disturbance 30 MHz – 40 GHz			Result
Method: Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 or 3 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used.				Comply
EUT mode (Refer to clauses 4)	Test configuration mode		1, 2, 3	
	EUT Operation mode		1, 2, 3	
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (3 m distance)	
30 to 88	39.1		40	
88 to 216	43.5		43.5	
216 to 960	46.4		46	
960 to 1 000	49.5		54	
According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 shown.				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (10 m distance)	
30 to 230	40		30	
230 to 1 000	47		37	
Radiated Disturbance for above 1 000 MHz at a measurement distance of 3 m				
Frequency range (GHz)	Peak limit dBµV/m		Average limit dBµV/m	
	Class A	Class B	Class A	Class B
1 to 40	80	74	60	54
The test frequency range of Radiated Disturbance measurements are listed below.				
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)			Upper frequency of measurement range (MHz)	
Below 108			1 000	
108 – 500			2 000	
500 – 1 000			5 000	
Above 1 000			5 th harmonic of the highest frequency or 40 GHz, whichever is lower	
Measurement uncertainty				
Expended uncertainty <i>U</i> (95 %, Confidence level, <i>k</i> = 2)			2.89 dB, (30 ~ 1 000) MHz 4.22 dB, (1 GHz Above)	
The measurement uncertainties were calculated in accordance with requirements of ANSI C 63.4-2014.				

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
MEASUREMENT SOFTWARE	EMI-R VER. 2.00.0177	TSJ	N/A	N/A	N/A
EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100469	2019.06.12	2020.06.12
TRILOG BROADBAND TEST-ANTENNA WITH 6DB ATT	VULB9160	SCHWARZBECK	9160-3339	2018.10.22	2020.10.22
	8491B	HP	18403	2018.10.22	2020.10.22
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2019.02.18	2020.02.18
HORN ANTENNA	3117	ETS-LINDGREN	00152093	2018.03.26	2020.03.26
BAND REJECT FILTER	WRCGV12-2375-2400-2 484-2505-50SS-PB	WAINWRIGHT INSTRUMENTS GMBH	1	2019.02.27	2020.02.27
HORN ANTENNA WITH PREAMPLIFIER	EM-6969	ELECTRO-METRICS	156	2019.02.13	2021.02.13
	MLA-0618-B03-34	TSJ	1785642	2019.01.02	2020.01.02
HORN ANTENNA	SAS-574	A.H.SYSTEMS INC.	155	2019.07.03	2021.07.03
PREAMPLIFIER	MLA-1840-J02-45	TSJ	16966-10728	2019.06.27	2020.06.27
(NOTE : THE MEASUREMENT ANTENNAS WERE CALIBRATED IN ACCORDANCE TO THE REQUIREMENTS OF C63.5-2017.)					

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

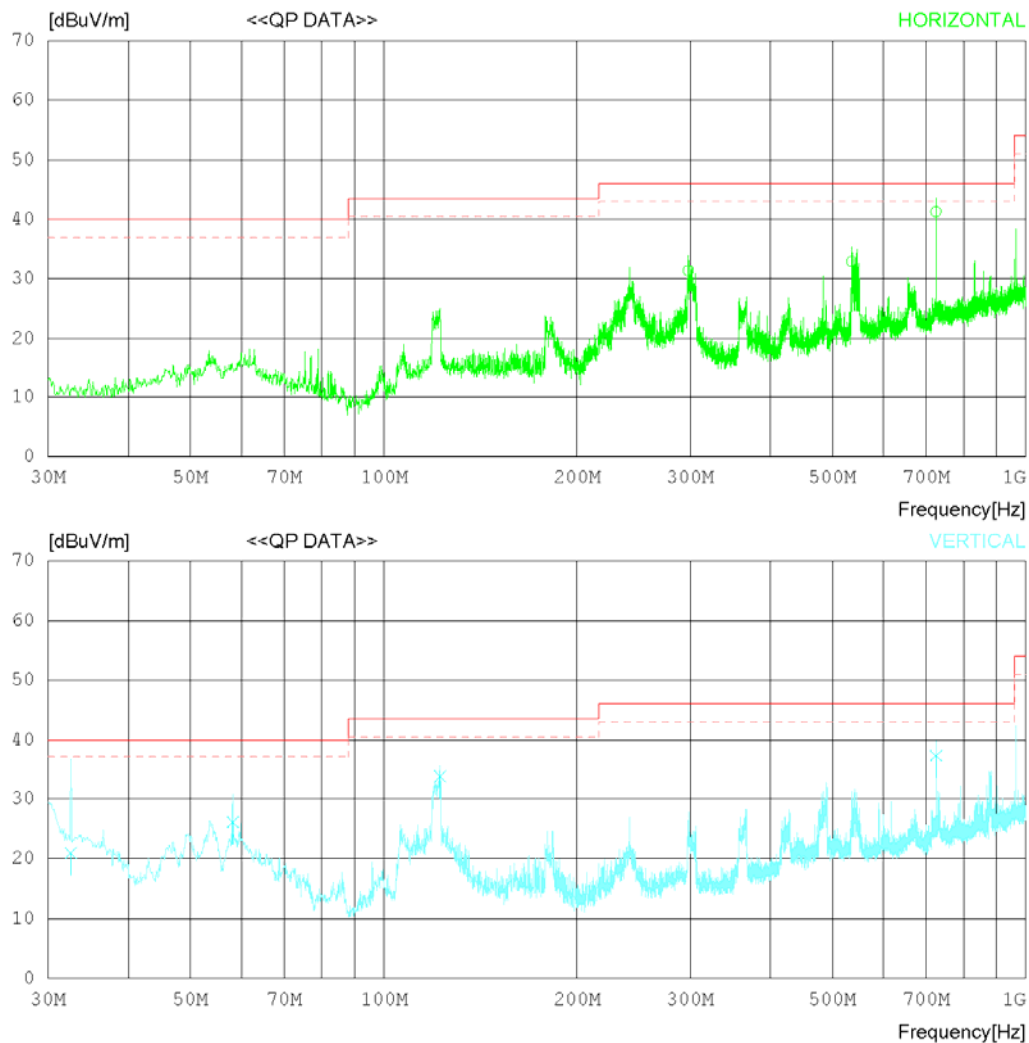
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	298.077	35.50	19.50	2.25	25.84	31.41	46.00	14.59	208	120
2	535.483	30.60	24.96	2.87	25.50	32.93	46.00	13.07	167	113
3	724.554	36.10	27.58	3.35	25.77	41.26	46.00	4.74	277	37
----- Vertical -----										
4	32.546	30.20	15.45	1.12	25.82	20.95	40.00	19.05	224	120
5	58.130	32.60	17.99	1.29	25.78	26.10	40.00	13.90	165	227
6	122.270	40.60	17.15	1.66	25.69	33.72	43.50	9.78	142	188
7	724.554	32.10	27.58	3.35	25.77	37.26	46.00	8.74	201	185

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

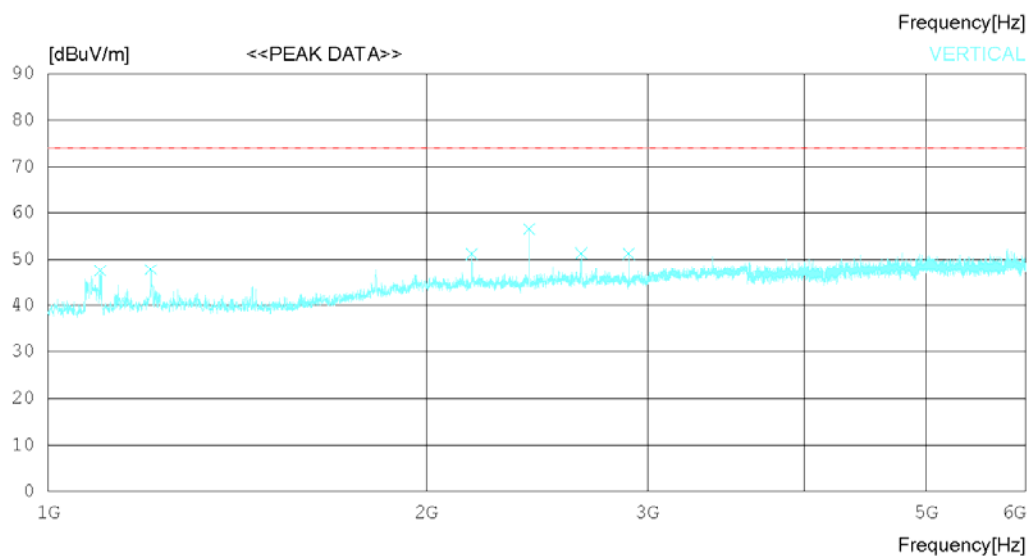
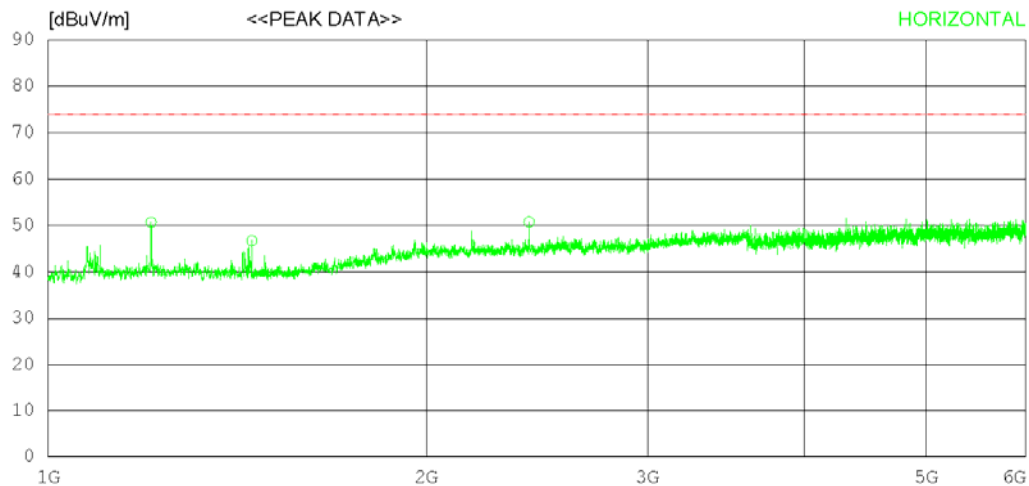
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 °C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1207.500	52.60	28.79	4.76	35.46	50.69	74.0	23.31	125	359
2	1452.500	48.90	27.90	5.07	35.11	46.76	74.0	27.24	264	223
3	2414.375	46.80	31.89	6.66	34.58	50.77	74.0	23.23	127	288
----- Vertical -----										
4	1100.625	50.60	28.00	4.48	35.61	47.47	74.0	26.53	120	0
5	1207.500	49.60	28.79	4.76	35.46	47.69	74.0	26.31	240	0
6	2173.750	47.60	31.70	6.38	34.44	51.24	74.0	22.76	132	0
7	2415.000	52.60	31.89	6.66	34.58	56.57	74.0	17.43	226	0
8	2655.625	46.40	32.69	6.93	34.73	51.29	74.0	22.71	185	0
9	2898.125	46.60	32.20	7.29	34.87	51.22	74.0	22.78	265	0

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

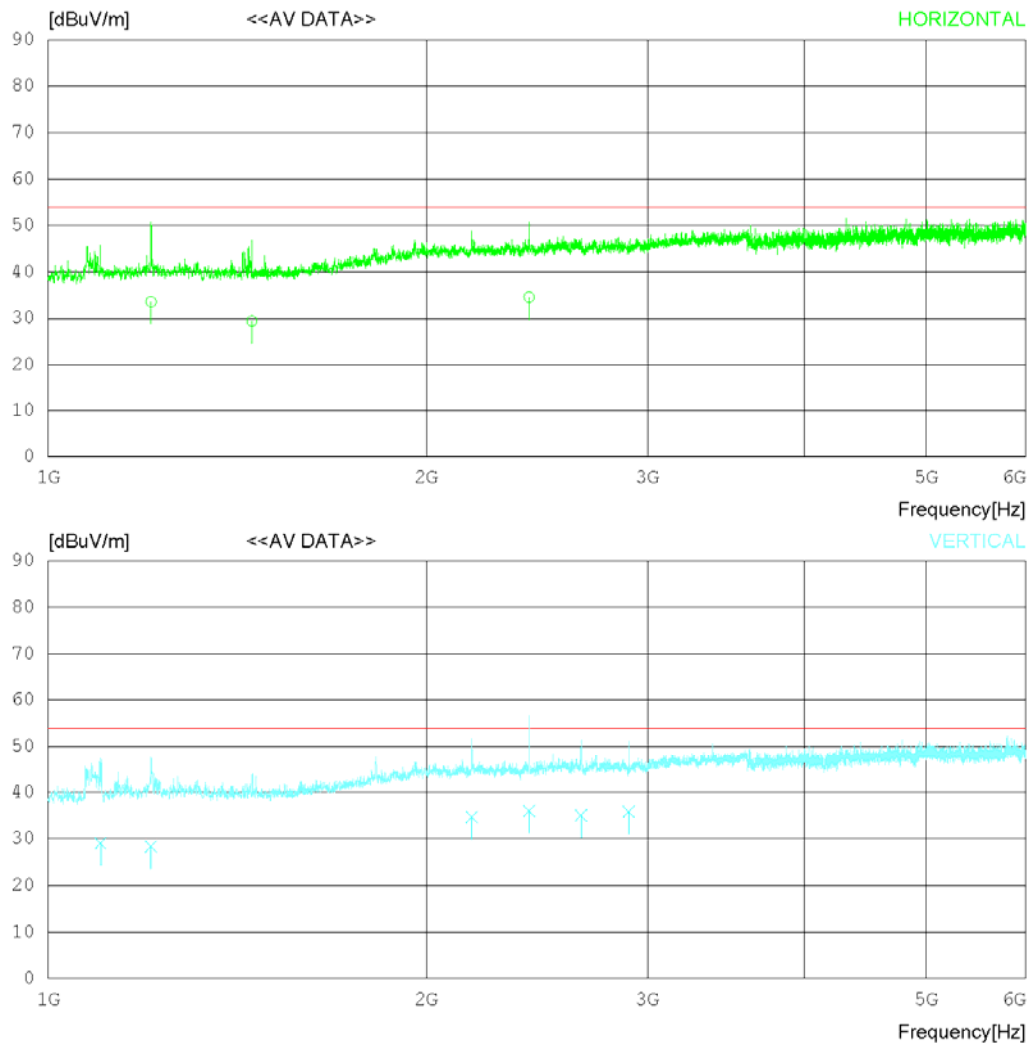
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 °C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 40 % R.H.
Test Condition DISPLAY

Memo cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1207.544	35.50	28.78	4.76	35.46	33.58	54.00	20.42	120	124
2	1452.532	31.60	27.90	5.07	35.11	29.46	54.00	24.54	277	29
3	2414.344	30.60	31.89	6.66	34.58	34.57	54.00	19.43	136	72
----- Vertical -----										
4	1100.644	32.10	28.00	4.48	35.61	28.97	54.00	25.03	302	114
5	1207.511	30.20	28.78	4.76	35.46	28.28	54.00	25.72	124	144
6	2173.372	31.00	31.70	6.38	34.44	34.64	54.00	19.36	334	227
7	2415.044	32.00	31.89	6.66	34.58	35.97	54.00	18.03	134	134
8	2655.611	30.10	32.69	6.93	34.73	34.99	54.00	19.01	208	134
9	2898.424	31.20	32.20	7.29	34.87	35.82	54.00	18.18	121	124

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

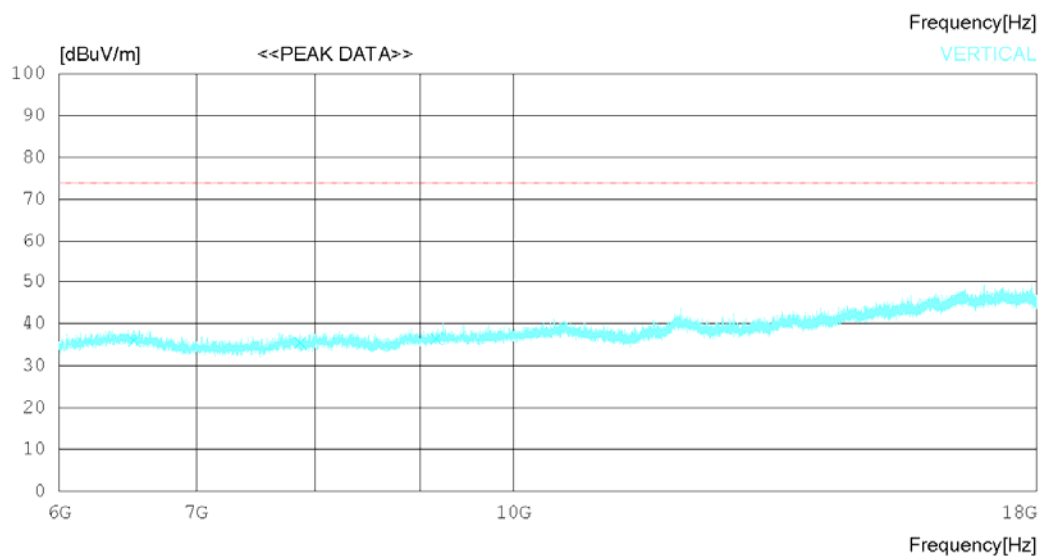
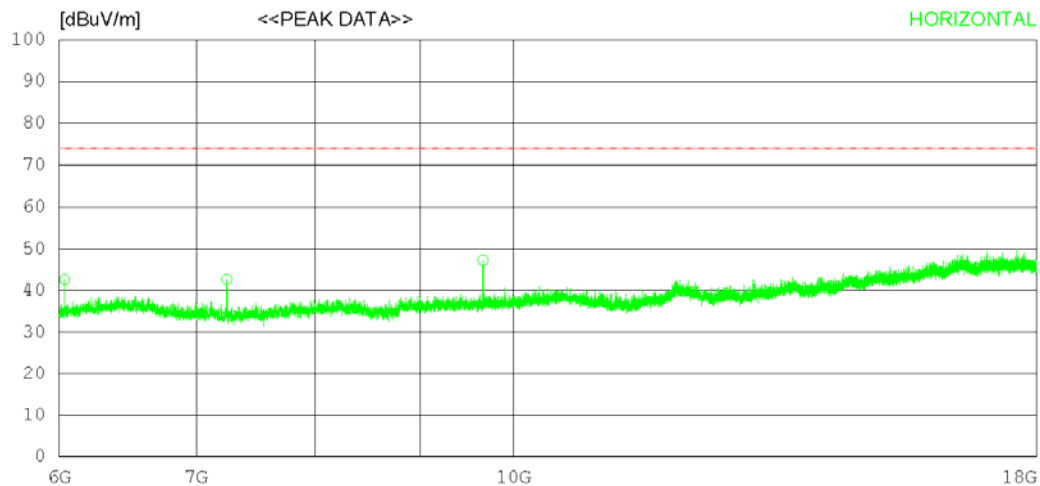
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 °C 44 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 'C 44 % R.H.
Test Condition DISPLAY

Memo cresyn

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	6036.750	39.50	31.71	10.73	39.28	42.66	74.0	31.34	150	0
2	7244.250	38.40	31.41	11.55	38.64	42.72	74.0	31.28	220	0
3	9660.000	39.40	32.40	14.28	38.81	47.27	74.0	26.73	274	233
----- Vertical -----										
4	6524.250	31.70	31.58	11.21	38.51	35.98	74.0	38.02	150	144
5	7869.750	29.70	31.32	12.49	38.04	35.47	74.0	38.53	225	110
6	9168.000	29.60	32.18	13.68	39.03	36.43	74.0	37.57	230	0

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

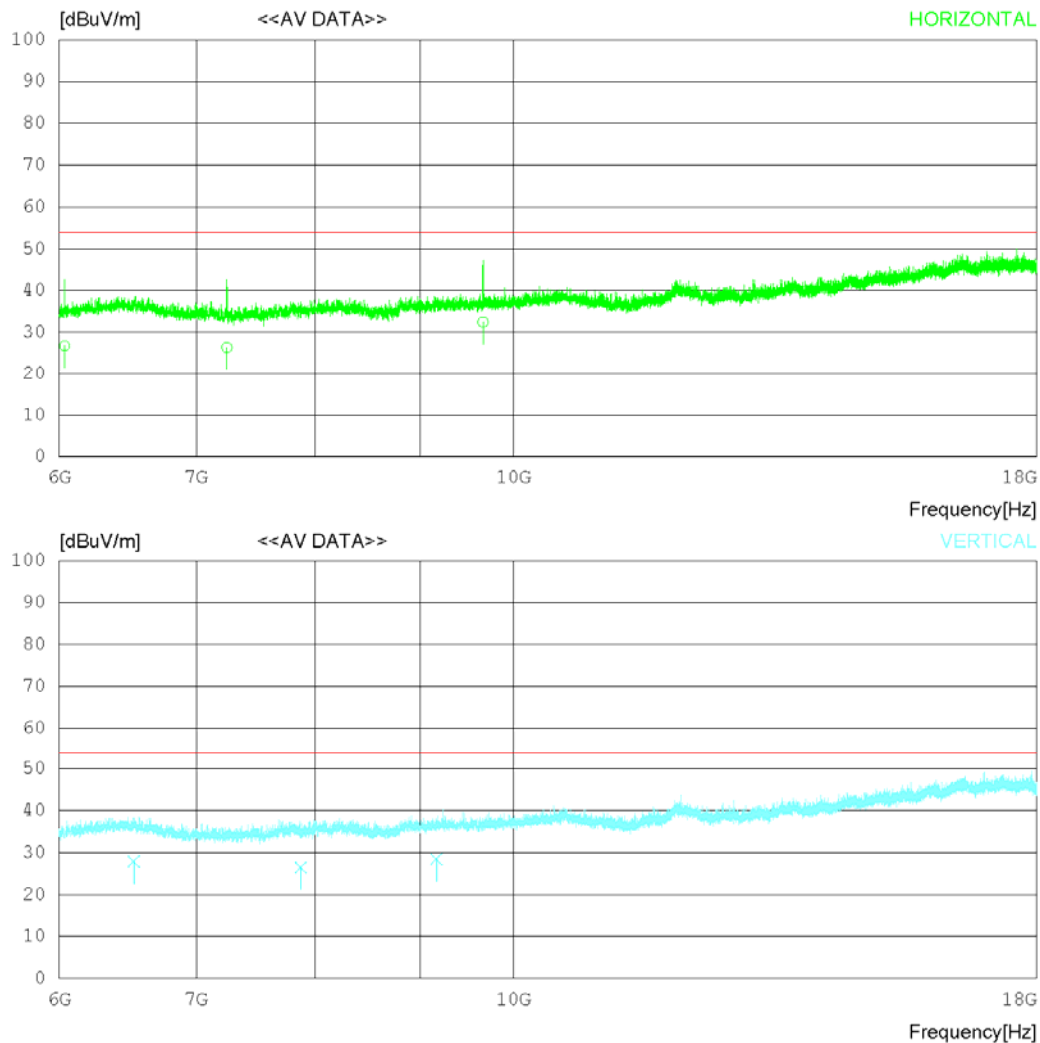
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 °C 44 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 'C 44 % R.H.
Test Condition DISPLAY

Memo cresyn

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

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 -----										
1	6036.412	23.60	31.71	10.73	39.28	26.76	54.00	27.24	302	120
2	7244.222	22.10	31.41	11.55	38.64	26.42	54.00	27.58	177	21
3	9660.042	24.60	32.40	14.28	38.81	32.47	54.00	21.53	128	118
----- Vertical -----										
4	6524.211	23.60	31.58	11.21	38.51	27.88	54.00	26.12	127	120
5	7869.741	20.70	31.32	12.49	38.04	26.47	54.00	27.53	277	302
6	9168.023	21.60	32.18	13.68	39.03	28.43	54.00	25.57	216	124

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Cresyn

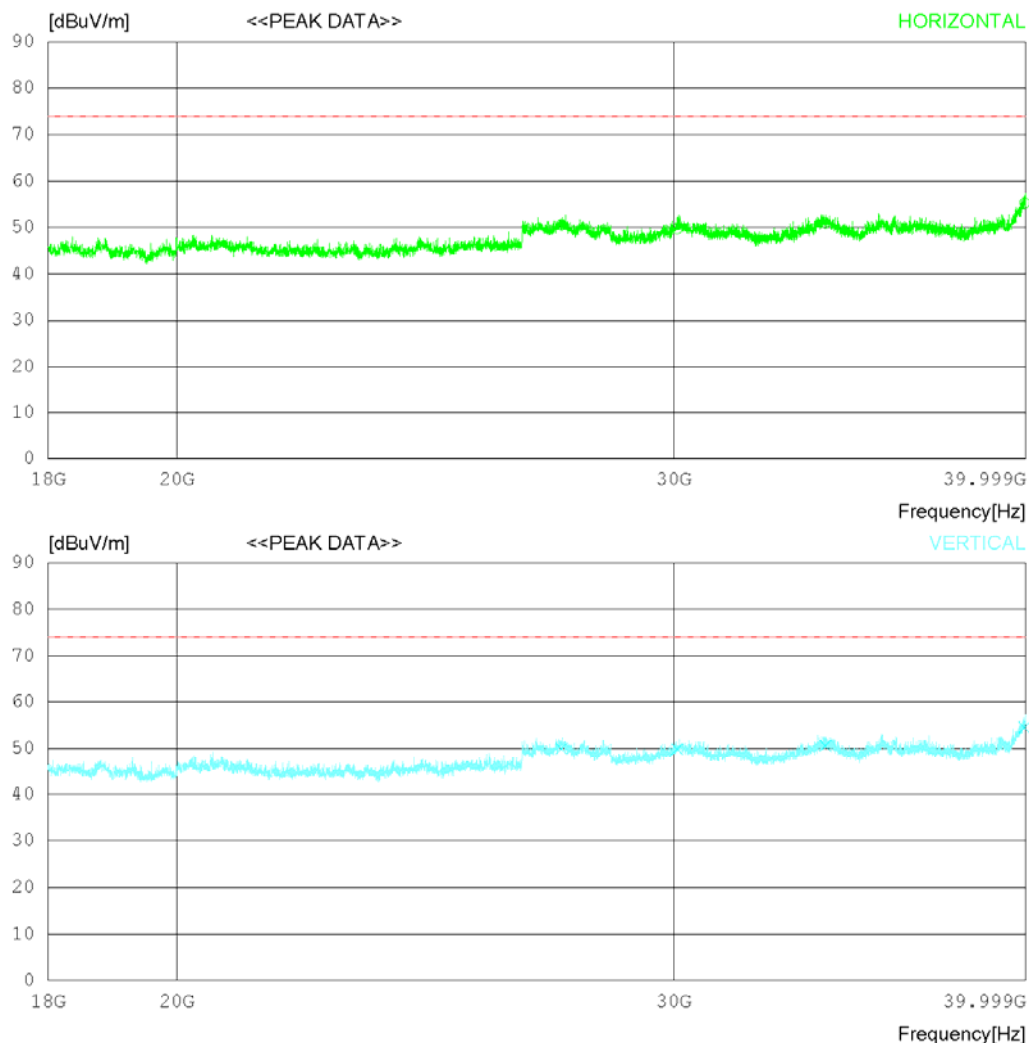
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 47 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 47 % R.H.
Test Condition DISPLAY

Memo cresyn

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

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]
----- Horizontal -----										
1	27377.50036.10	38.80	21.08	45.40	50.58	74.0	23.42	125	114	
2	30091.75034.10	40.32	21.85	46.50	49.77	74.0	24.23	256	355	
3	33958.25032.10	41.47	24.14	46.73	50.98	74.0	23.02	227	205	
4	39964.25034.70	43.45	23.94	46.80	55.29	74.0	18.71	308	358	
----- Vertical -----										
5	27377.50035.50	38.80	21.08	45.40	49.98	74.0	24.02	125	0	
6	30091.75034.20	40.32	21.85	46.50	49.87	74.0	24.13	308	0	
7	33958.25031.70	41.47	24.14	46.73	50.58	74.0	23.42	241	0	
8	39964.25034.00	43.45	23.94	46.80	54.59	74.0	19.41	256	0	

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

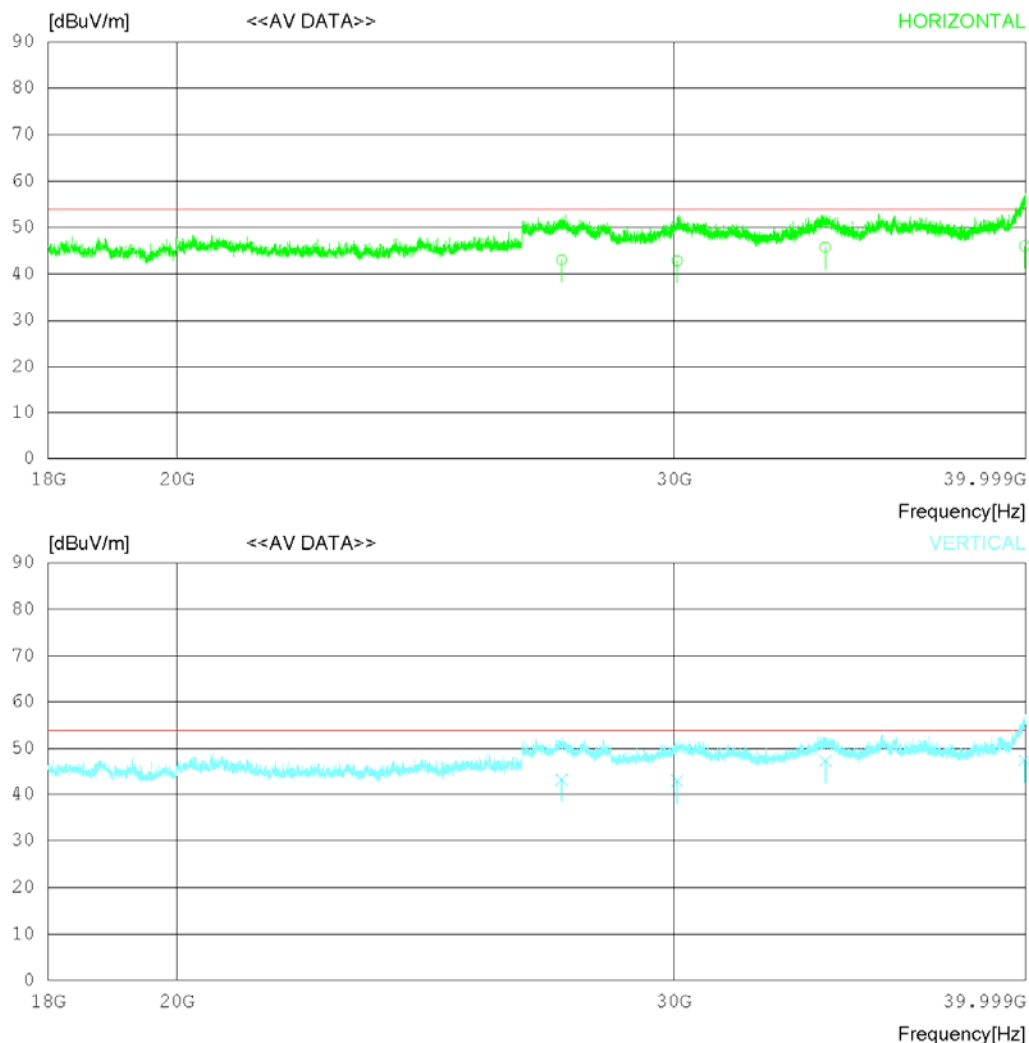
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 47 % R.H.
Test Condition DISPLAY

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 47 % R.H.
Test Condition DISPLAY

Memo cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27377.54028.60		38.80	21.08	45.40	43.08	54.00	10.92	120	130
2	30091.71027.22		40.32	21.85	46.50	42.89	54.00	11.11	213	124
3	33958.21026.88		41.47	24.14	46.73	45.76	54.00	8.24	134	277
4	39964.32025.41		43.45	23.94	46.80	46.00	54.00	8.00	113	186
----- Vertical -----										
5	27377.54028.60		38.80	21.08	45.40	43.08	54.00	10.92	120	120
6	30091.71027.20		40.32	21.85	46.50	42.87	54.00	11.13	234	234
7	33958.41028.33		41.47	24.14	46.72	47.22	54.00	6.78	188	78
8	39964.23026.74		43.45	23.94	46.80	47.33	54.00	6.67	324	156

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Bujeon

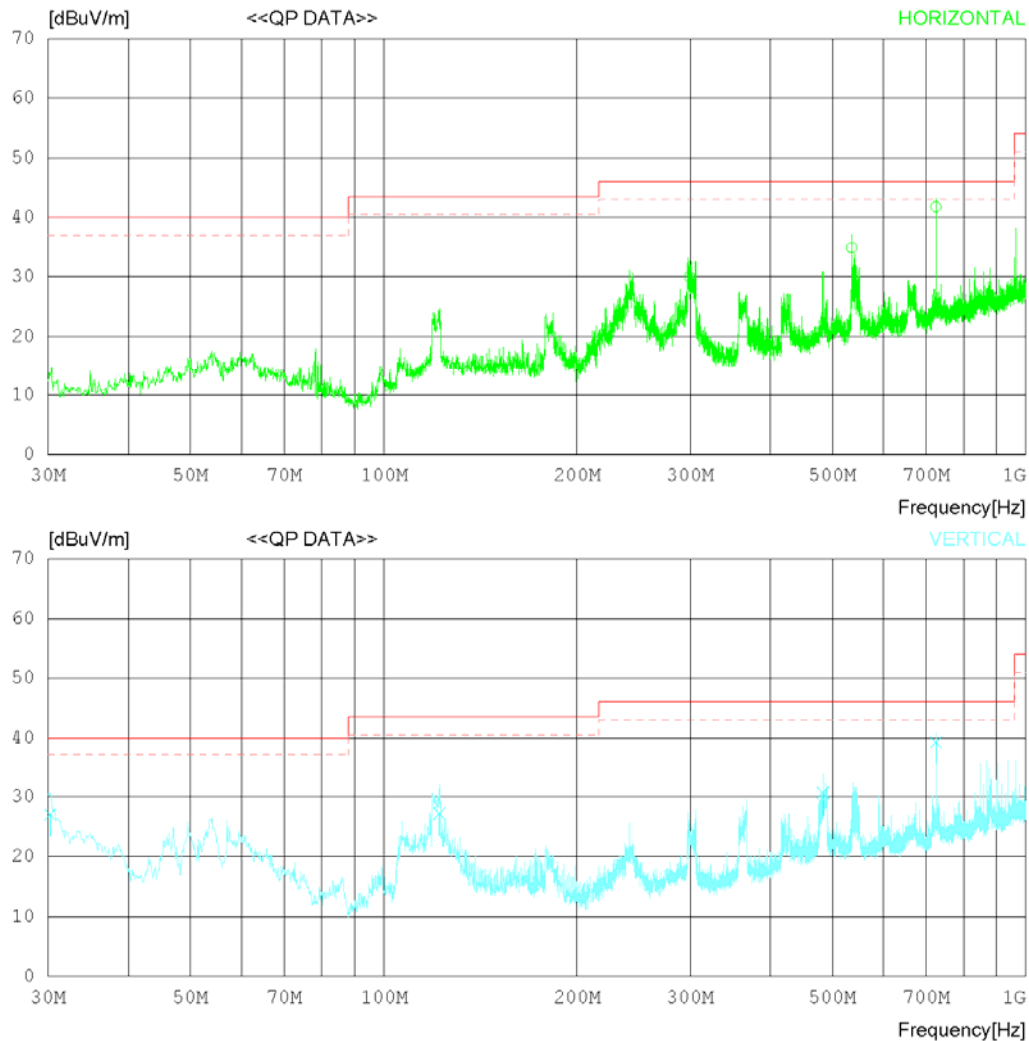
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	299.168	34.10	19.50	2.25	25.84	30.01	46.00	15.99	208	120
2	535.362	32.60	24.96	2.87	25.50	34.93	46.00	11.07	134	161
3	724.554	36.60	27.58	3.35	25.77	41.76	46.00	4.24	242	227
----- Vertical -----										
4	30.243	35.50	16.23	1.09	25.82	27.00	40.00	13.00	120	140
5	122.027	34.10	17.12	1.66	25.69	27.19	43.50	16.31	227	188
6	482.977	30.10	23.37	2.78	25.58	30.67	46.00	15.33	342	154
7	724.554	34.10	27.58	3.35	25.77	39.26	46.00	6.74	113	128

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

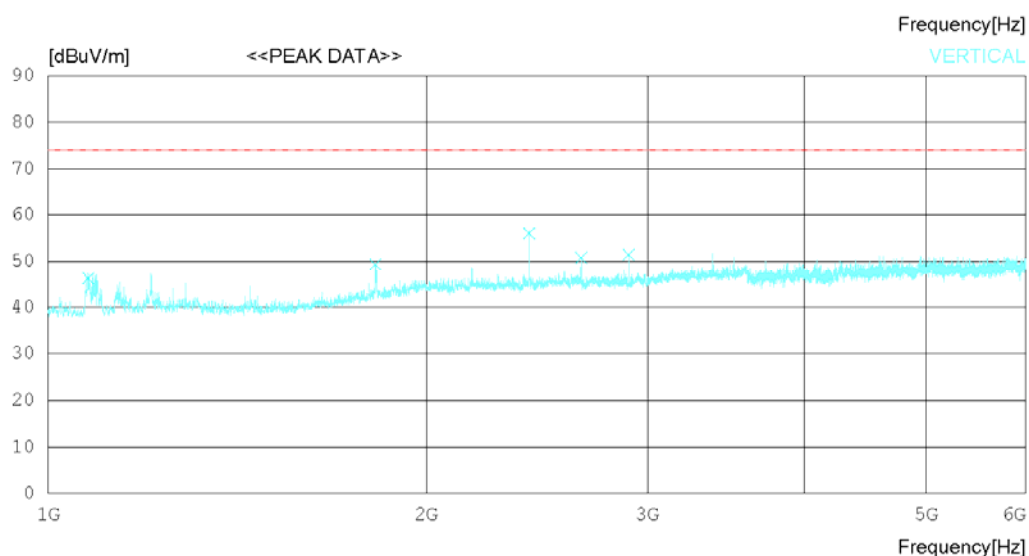
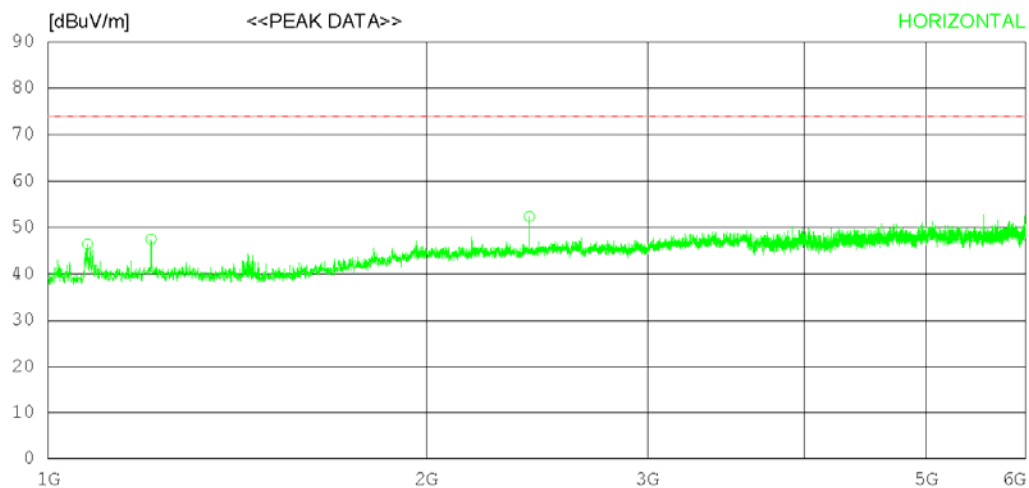
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1075.000	50.00	27.70	4.41	35.64	46.47	74.0	27.53	158	358
2	1207.500	49.40	28.79	4.76	35.46	47.49	74.0	26.51	122	220
3	2415.000	48.40	31.89	6.66	34.58	52.37	74.0	21.63	208	171
----- Vertical -----										
4	1076.875	49.70	27.72	4.41	35.64	46.19	74.0	27.81	246	229
5	1821.875	47.80	30.49	5.69	34.59	49.39	74.0	24.61	226	8
6	2414.375	52.10	31.89	6.66	34.58	56.07	74.0	17.93	272	184
7	2656.875	45.90	32.69	6.94	34.73	50.80	74.0	23.2	308	0
8	2898.125	46.80	32.20	7.29	34.87	51.42	74.0	22.58	310	238

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

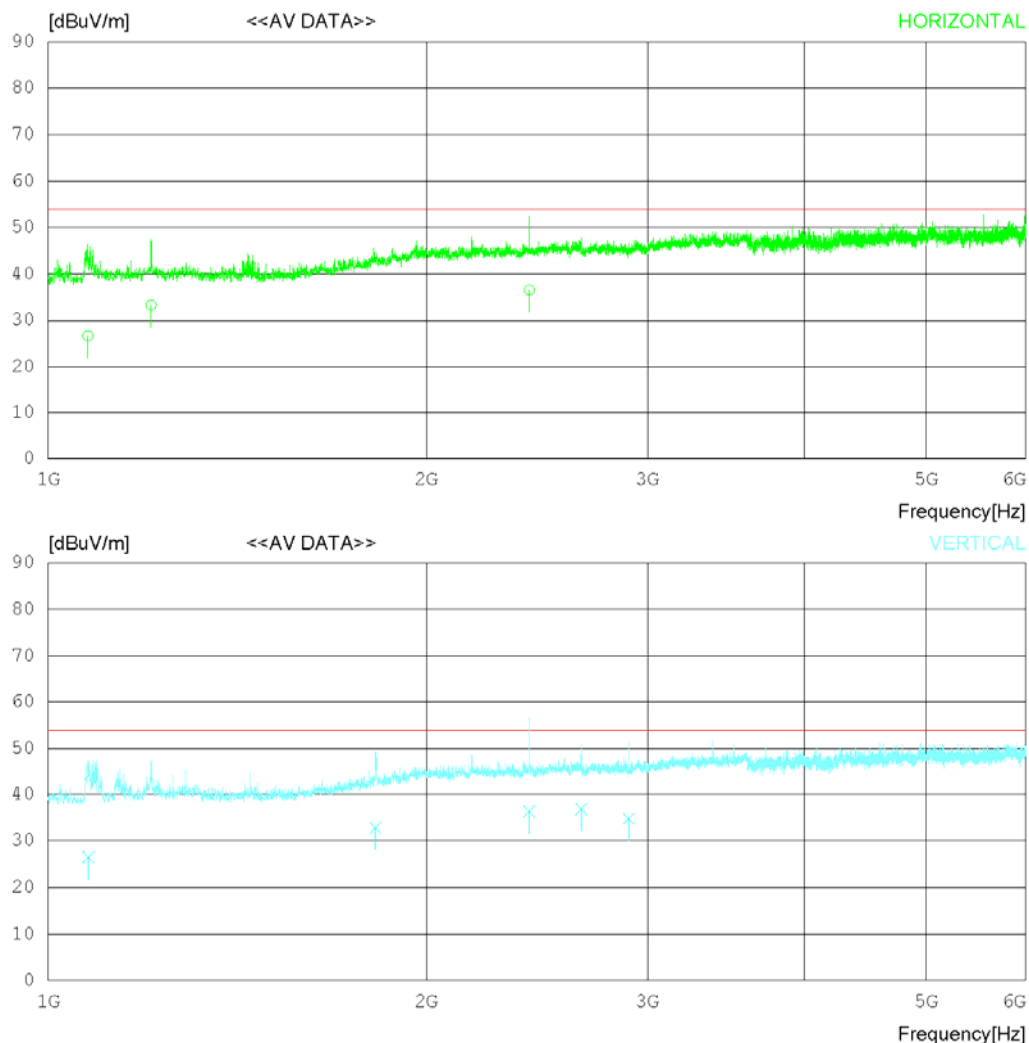
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 °C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 40 % R.H.
Test Condition DISPLAY

Memo bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1075.420	30.20	27.71	4.41	35.64	26.68	54.00	27.32	120	258
2	1207.517	35.20	28.78	4.76	35.46	33.28	54.00	20.72	227	226
3	2415.087	32.60	31.89	6.66	34.58	36.57	54.00	17.43	133	121
----- Vertical -----										
4	1076.811	30.00	27.72	4.41	35.64	26.49	54.00	27.51	238	229
5	1821.805	31.25	30.49	5.69	34.59	32.84	54.00	21.16	124	24
6	2414.344	32.26	31.89	6.66	34.58	36.23	54.00	17.77	308	147
7	2656.811	31.86	32.69	6.94	34.73	36.76	54.00	17.24	244	236
8	2898.134	30.12	32.20	7.29	34.87	34.74	54.00	19.26	120	266

Radiated disturbance at (6 ~ 18) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Bujeon

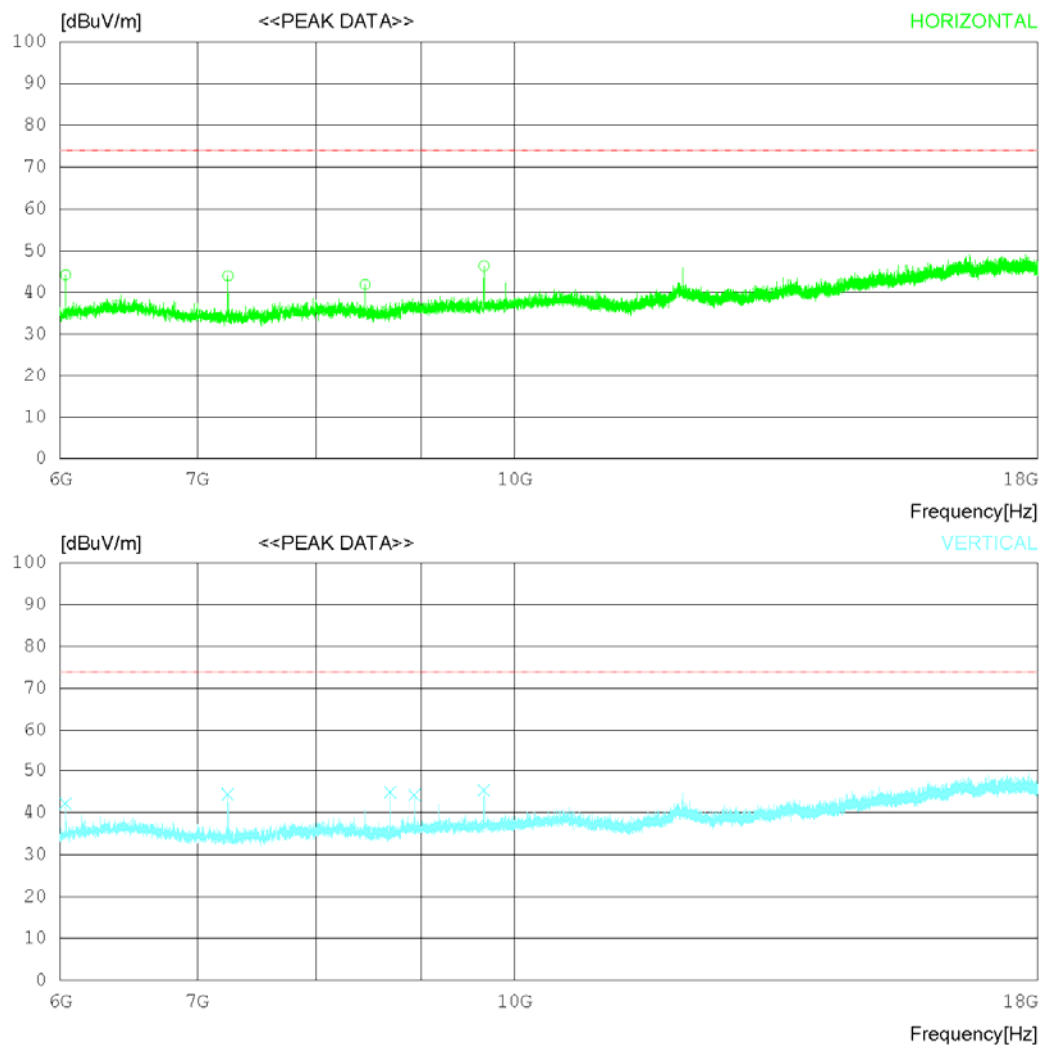
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 °C 44 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 'C 44 % R.H.
Test Condition DISPLAY

Memo bujeon

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

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]
----- Horizontal -----										
1	6036.750	41.10	31.71	10.73	39.28	44.26	74.0	29.74	125	0
2	7244.250	39.70	31.41	11.55	38.64	44.02	74.0	29.98	257	245
3	8451.750	35.00	31.66	12.94	37.63	41.97	74.0	32.03	305	0
4	9660.000	38.50	32.40	14.28	38.81	46.37	74.0	27.63	224	245
----- Vertical -----										
5	6036.750	39.00	31.71	10.73	39.28	42.16	74.0	31.84	246	0
6	7244.250	40.00	31.41	11.55	38.64	44.32	74.0	29.68	125	209
7	8694.000	38.00	31.86	13.13	38.12	44.87	74.0	29.13	170	0
8	8935.500	37.50	32.05	13.39	38.76	44.18	74.0	29.82	165	250
9	9660.000	37.40	32.40	14.28	38.81	45.27	74.0	28.73	226	0

Radiated disturbance at (6 ~ 18) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Bujeon

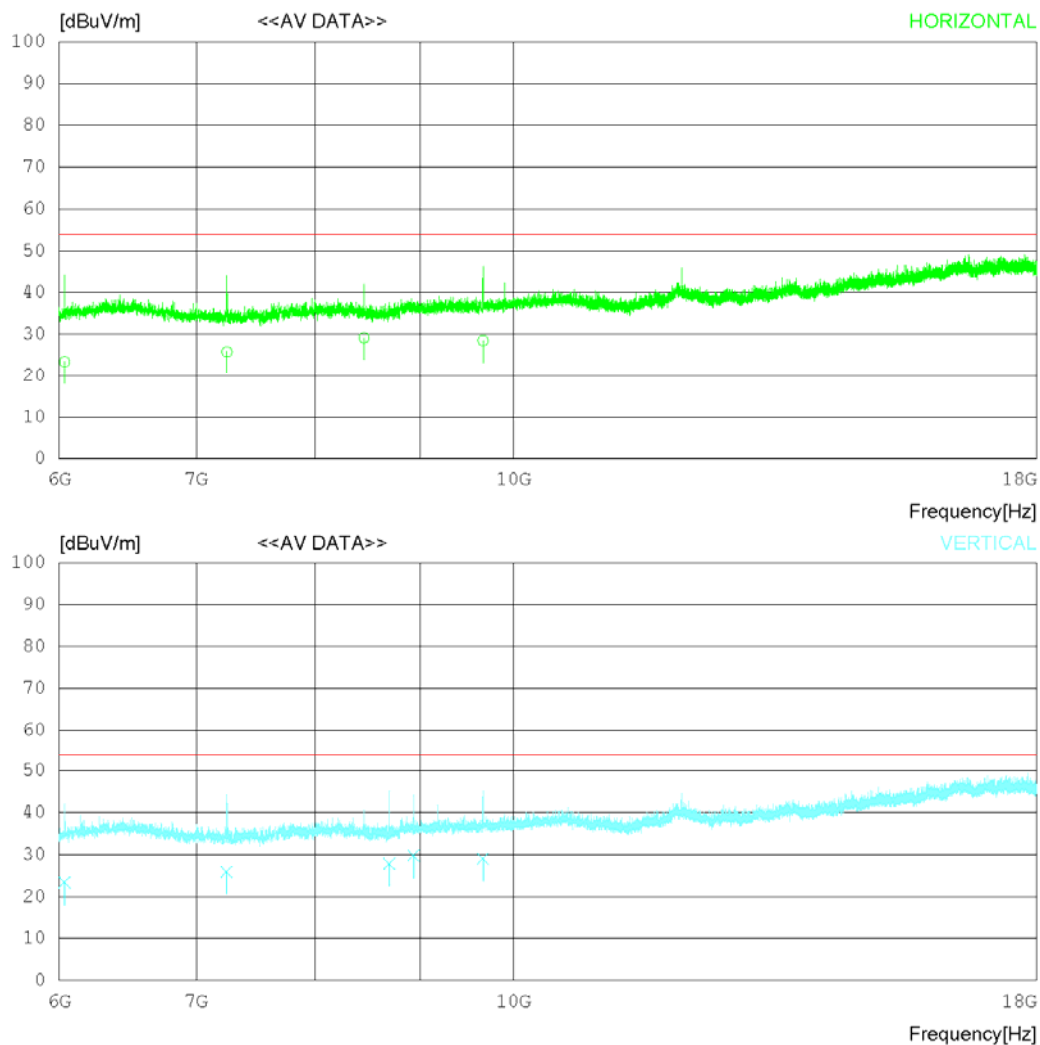
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 °C 44 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 21 'C 44 % R.H.
Test Condition DISPLAY
 bujeon

Memo

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

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 -----										
1	6036.714	20.30	31.71	10.73	39.28	23.46	54.00	30.54	120	127
2	7244.211	21.50	31.41	11.55	38.64	25.82	54.00	28.18	234	122
3	8451.713	22.20	31.66	12.94	37.63	29.17	54.00	24.83	138	231
4	9660.021	20.67	32.40	14.28	38.81	28.54	54.00	25.46	144	123
----- Vertical -----										
5	6036.714	20.22	31.71	10.73	39.28	23.38	54.00	30.62	120	278
6	7244.244	21.60	31.41	11.55	38.64	25.92	54.00	28.08	134	136
7	8694.320	20.97	31.86	13.13	38.12	27.84	54.00	26.16	380	134
8	8935.514	23.10	32.05	13.39	38.76	29.78	54.00	24.22	142	277
9	9660.024	21.20	32.40	14.28	38.81	29.07	54.00	24.93	224	123

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Bujeon

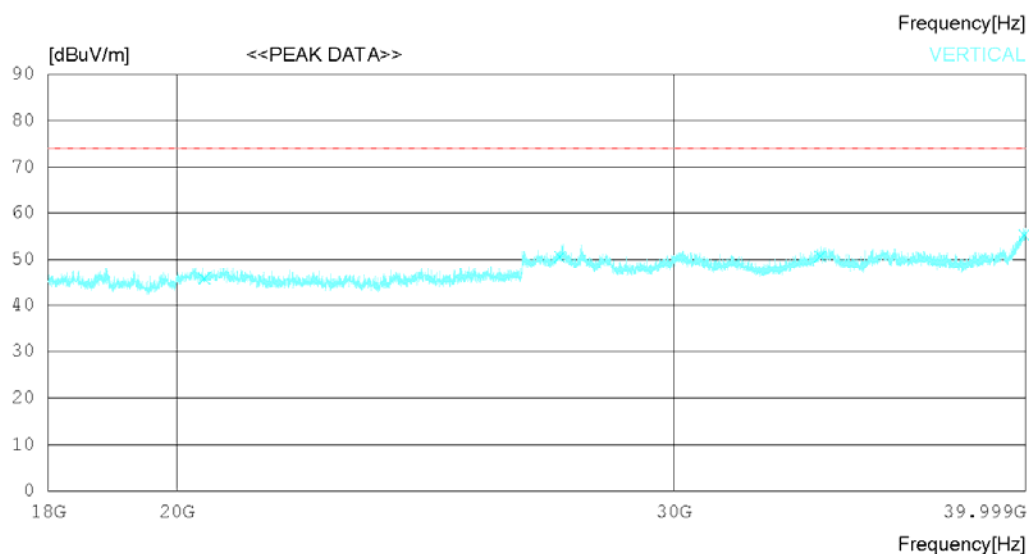
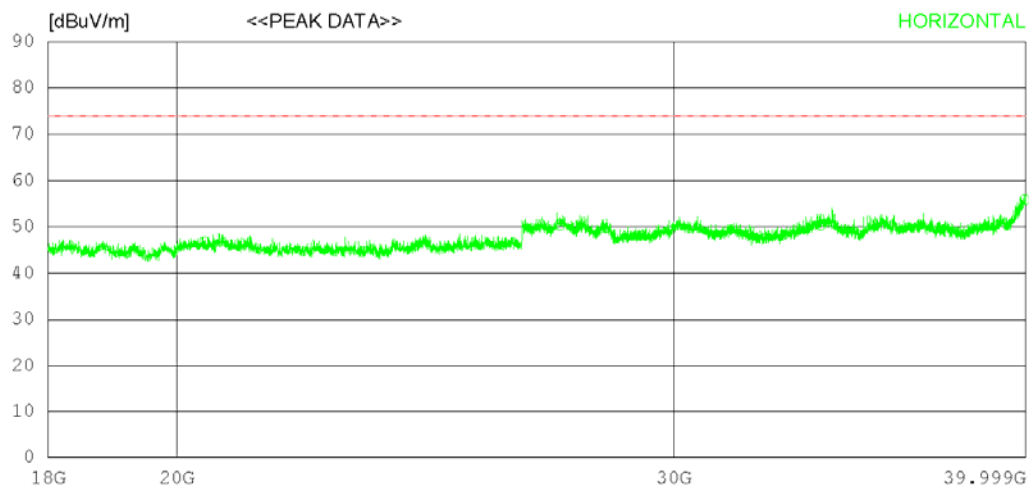
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 47 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23°C 47 % R.H.
Test Condition DISPLAY

Memo bujeon

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	20447.50032.40	39.28	19.50	44.39	46.79	74.0	27.21	155	358	
2	27336.25035.90	38.77	21.08	45.37	50.38	74.0	23.62	257	298	
3	33820.75031.90	41.27	24.02	46.81	50.38	74.0	23.62	135	358	
4	39964.25035.20	43.45	23.94	46.80	55.79	74.0	18.21	226	64	
----- Vertical -----										
5	20447.50031.30	39.28	19.50	44.39	45.69	74.0	28.31	246	21	
6	27336.25036.10	38.77	21.08	45.37	50.58	74.0	23.42	325	134	
7	33820.75032.20	41.27	24.02	46.81	50.68	74.0	23.32	172	336	
8	39964.25034.70	43.45	23.94	46.80	55.29	74.0	18.71	266	0	

Radiated disturbance at (18 ~ 40) GHz _Average measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-
-	-	Ear-Mic	Bujeon

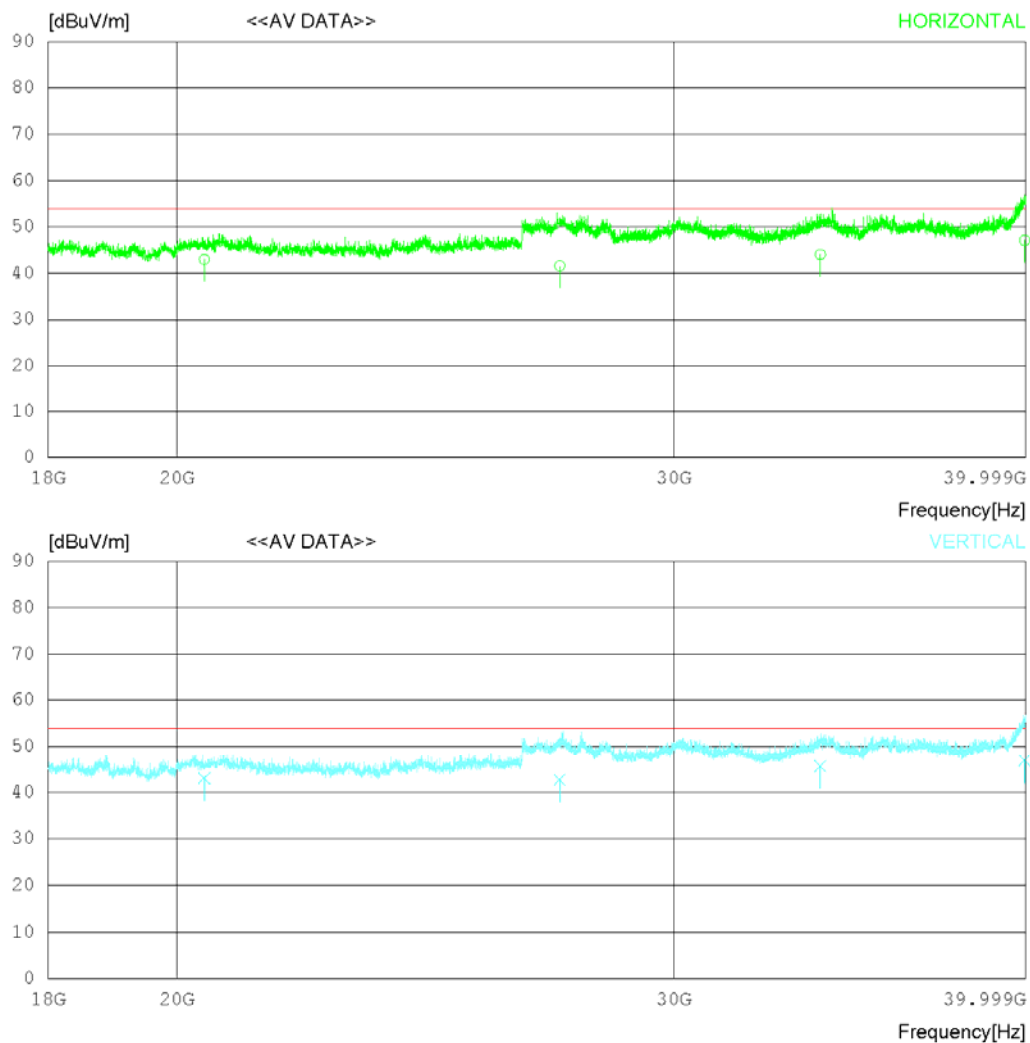
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 47 % R.H.
Test Condition DISPLAY

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply Battery
Temp/Humi 23 'C 47 % R.H.
Test Condition DISPLAY

Memo bujeon

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	20447.42028.60		39.28	19.50	44.39	42.99	54.00	11.01	120	124
2	27336.21027.10		38.77	21.08	45.37	41.58	54.00	12.42	223	230
3	33820.41025.60		41.27	24.02	46.81	44.08	54.00	9.92	342	123
4	39964.28026.50		43.45	23.94	46.80	47.09	54.00	6.91	178	146
----- Vertical -----										
5	20447.51028.60		39.28	19.50	44.39	42.99	54.00	11.01	120	277
6	27336.24028.20		38.77	21.08	45.37	42.68	54.00	11.32	272	134
7	33820.30027.04		41.27	24.01	46.81	45.51	54.00	8.49	134	316
8	39964.21026.20		43.45	23.94	46.80	46.79	54.00	7.21	127	274

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

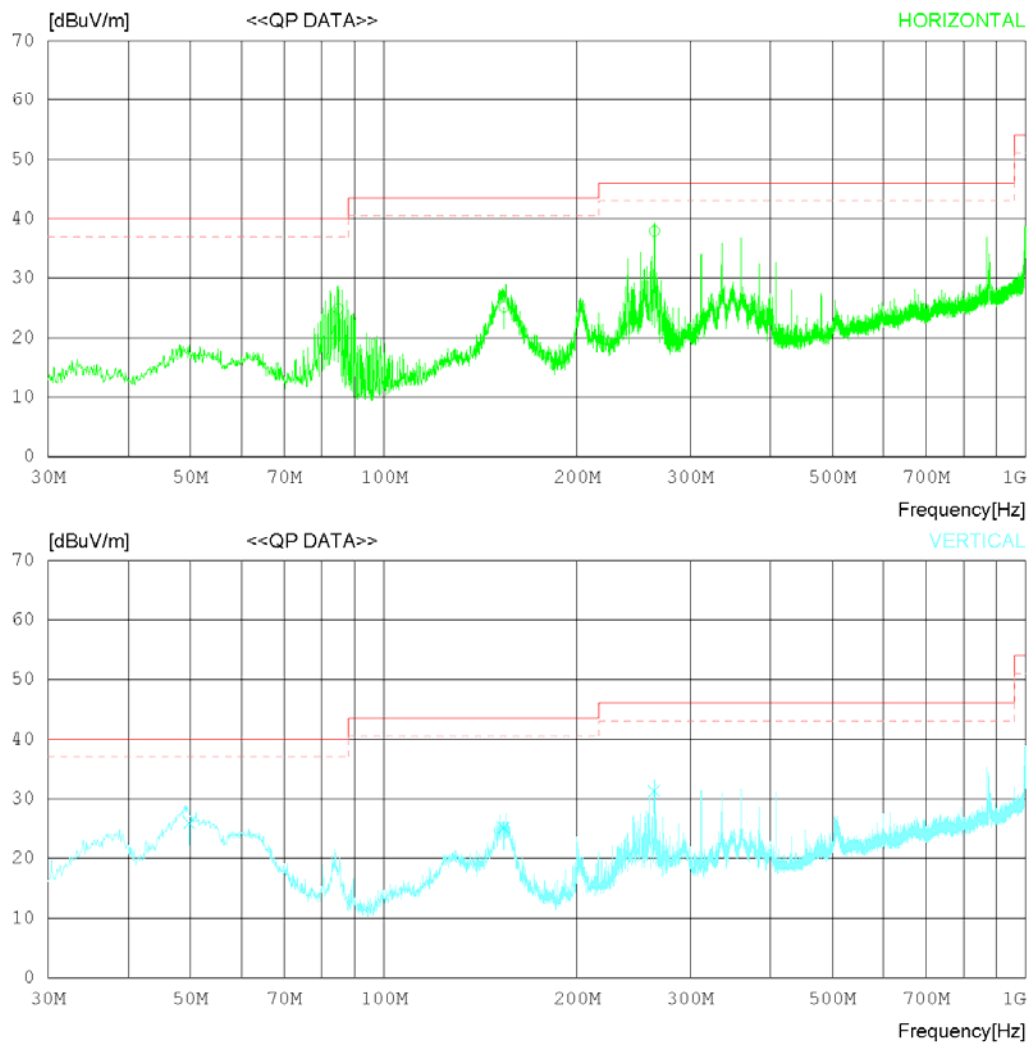
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	84.926	35.50	13.61	1.48	25.73	24.86	40.00	15.14	120	275
2	154.036	30.14	18.90	1.78	25.66	25.16	43.50	18.34	227	131
3	264.007	43.20	18.34	2.14	25.77	37.91	46.00	8.09	154	156
----- Vertical -----										
4	49.764	32.20	18.28	1.29	25.80	25.97	40.00	14.03	133	146
5	153.794	30.20	18.90	1.78	25.66	25.22	43.50	18.28	273	124
6	263.885	36.60	18.33	2.14	25.77	31.30	46.00	14.70	120	308

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
Data cable	Ningbo	Ear-Mic	Cresyn

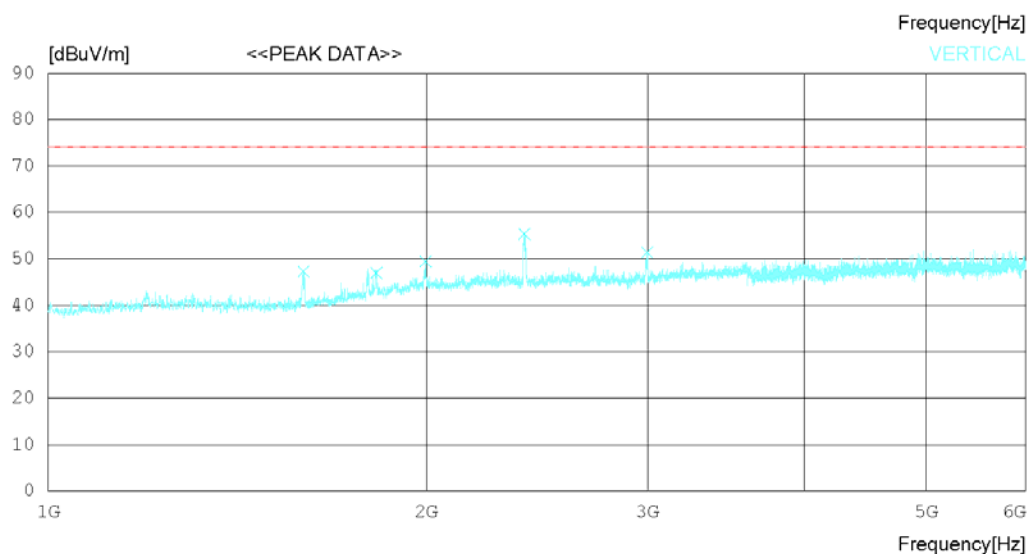
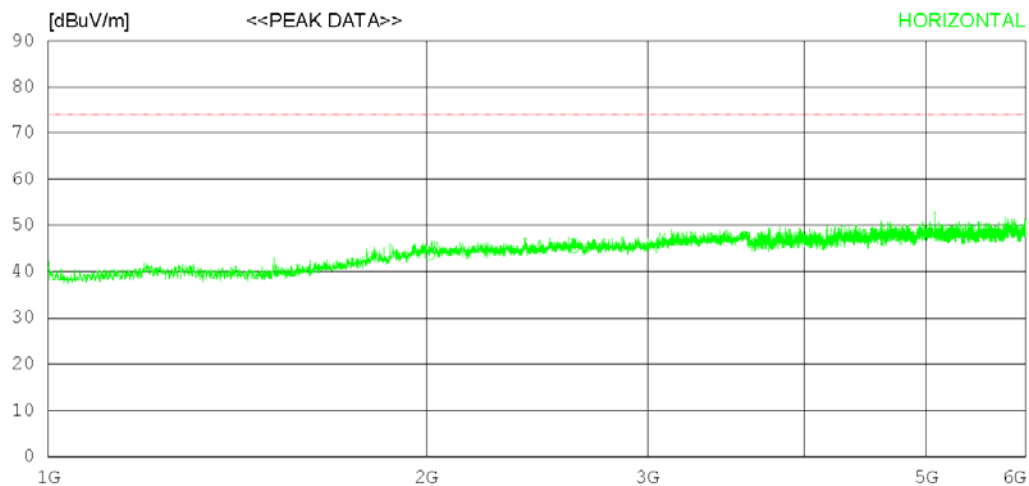
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2011.875	40.20	31.62	6.13	34.35	43.60	74.0	30.4	155	358
2	2621.875	40.30	32.64	6.90	34.71	45.13	74.0	28.87	240	1
3	3158.125	40.80	33.03	7.68	34.71	46.80	74.0	27.2	150	300
----- Vertical -----										
4	1596.875	48.60	28.38	5.27	34.91	47.34	74.0	26.66	165	0
5	1825.000	45.40	30.50	5.69	34.59	47.00	74.0	27	177	0
6	1997.500	46.10	31.60	6.11	34.34	49.47	74.0	24.53	250	0
7	2393.125	51.50	31.79	6.64	34.57	55.36	74.0	18.64	156	2
8	2998.750	46.30	32.50	7.51	34.93	51.38	74.0	22.62	308	358

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
Data cable	Ningbo	Ear-Mic	Cresyn

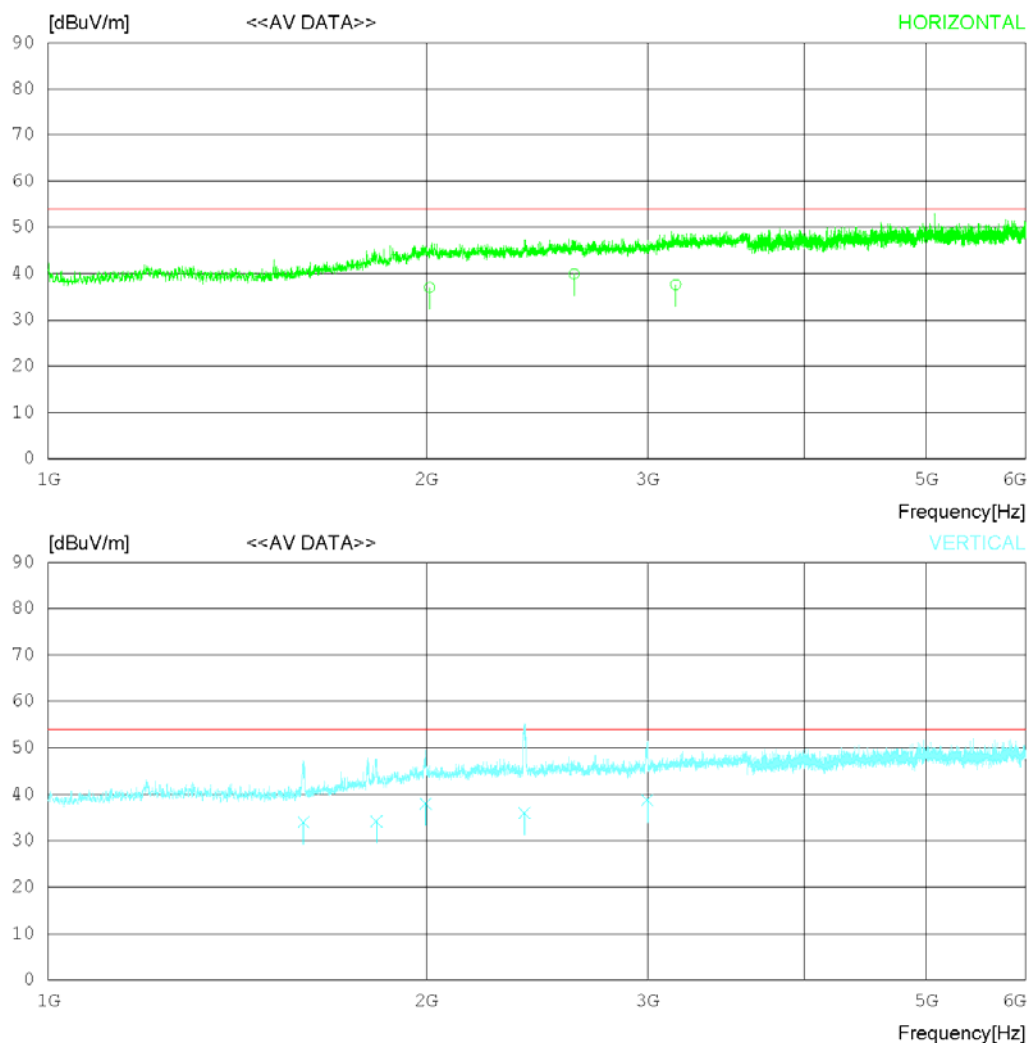
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2011.420	33.60	31.62	6.13	34.35	37.00	54.00	17.00	308	174
2	2621.811	35.10	32.64	6.90	34.71	39.93	54.00	14.07	122	322
3	3158.143	31.60	33.03	7.68	34.71	37.60	54.00	16.40	128	31
----- Vertical -----										
4	1596.842	35.20	28.38	5.27	34.91	33.94	54.00	20.06	124	271
5	1825.044	32.60	30.50	5.69	34.59	34.20	54.00	19.80	120	308
6	1997.511	34.60	31.60	6.11	34.34	37.97	54.00	16.03	273	124
7	2393.162	32.10	31.79	6.64	34.57	35.96	54.00	18.04	114	311
8	2998.711	33.70	32.50	7.51	34.93	38.78	54.00	15.22	308	314

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
Data cable	Ningbo	Ear-Mic	Cresyn

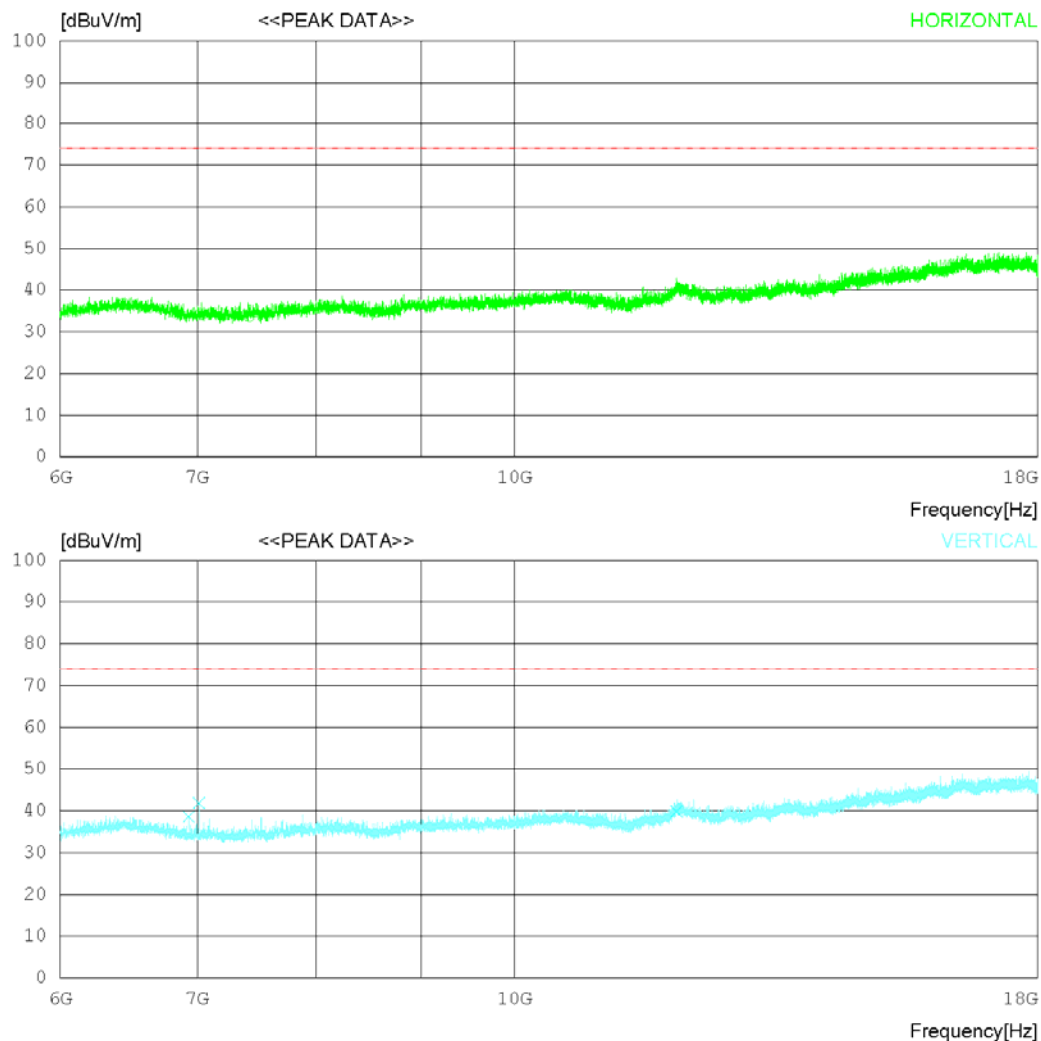
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

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]
----- Horizontal -----										
1	6444.000	32.60	31.60	11.19	38.59	36.80	74.0	37.2	155	0
2	7419.000	28.90	31.39	11.79	38.41	33.67	74.0	40.33	241	106
3	8565.750	27.80	31.75	12.93	37.77	34.71	74.0	39.29	178	294
----- Vertical -----										
4	6933.000	34.20	31.47	11.59	38.65	38.61	74.0	35.39	152	345
5	7012.500	37.40	31.45	11.76	38.71	41.90	74.0	32.1	250	0
6	11992.500	28.40	33.45	15.66	37.67	39.84	74.0	34.16	241	128

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
Data cable	Ningbo	Ear-Mic	Cresyn

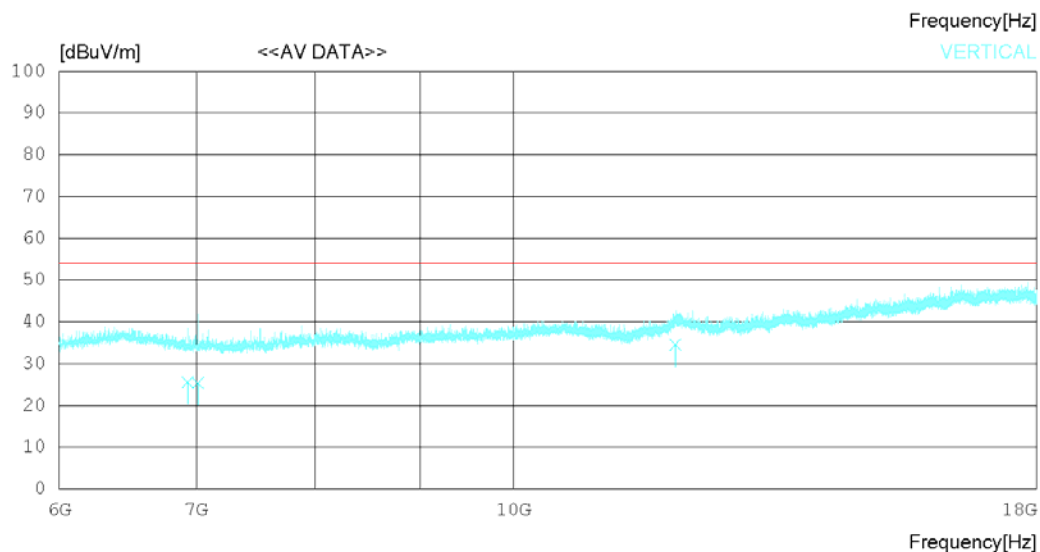
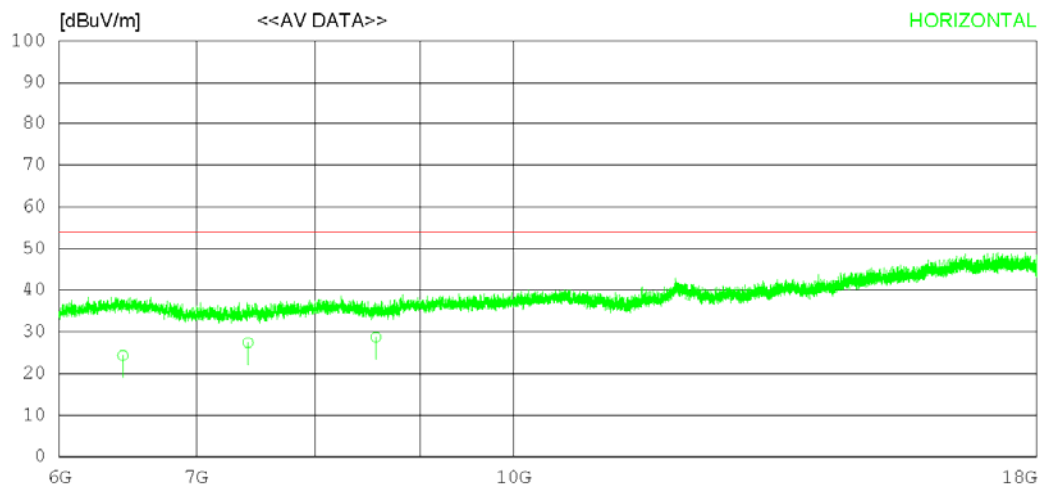
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

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 -----										
1	6444.024	20.10	31.60	11.19	38.59	24.30	54.00	29.70	120	278
2	7419.017	22.60	31.39	11.79	38.41	27.37	54.00	26.63	134	123
3	8565.711	21.80	31.75	12.93	37.77	28.71	54.00	25.29	234	273
----- Vertical -----										
4	6933.024	21.20	31.47	11.59	38.65	25.61	54.00	28.39	120	124
5	7012.544	20.90	31.45	11.76	38.71	25.40	54.00	28.60	273	208
6	11992.420	23.10	33.45	15.66	37.67	34.54	54.00	19.46	116	134

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

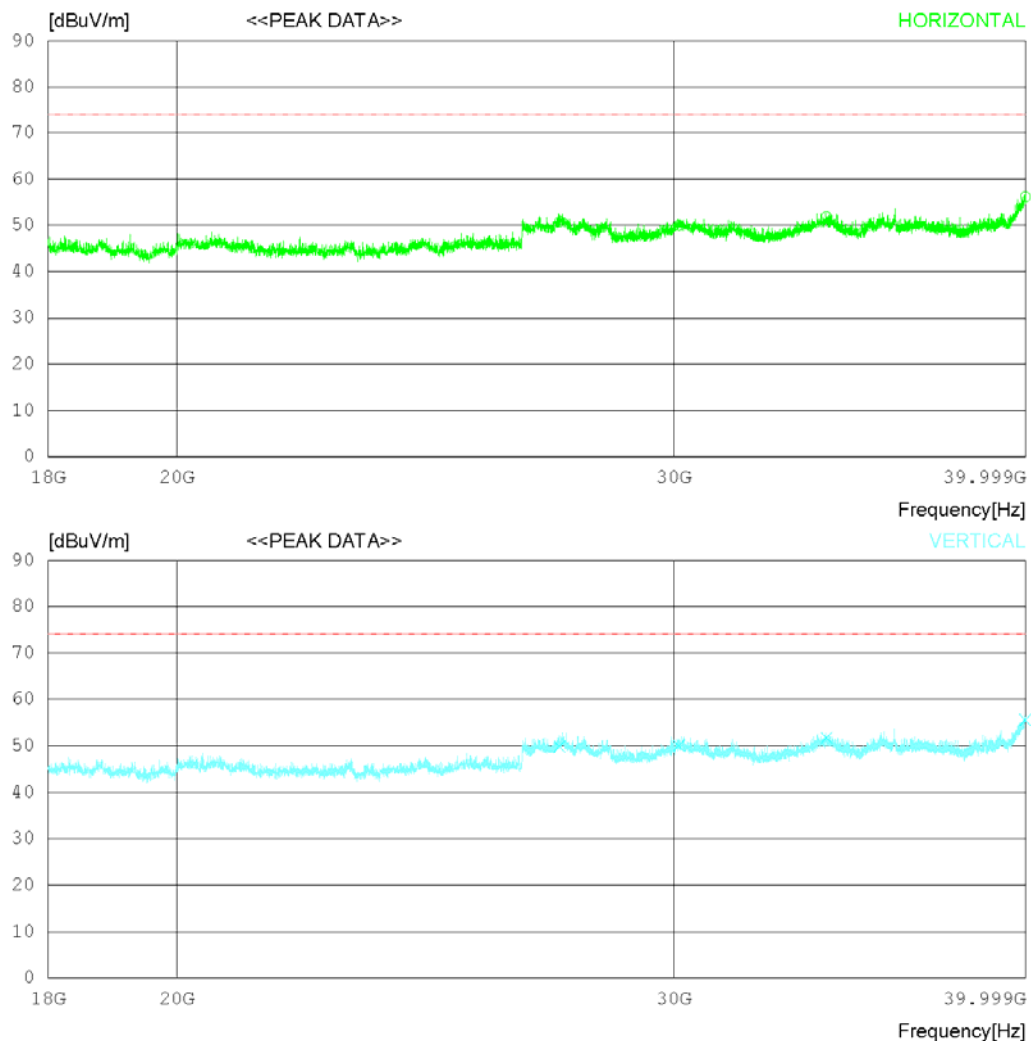
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	PEAK	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27336.25036.30	38.77	21.08	45.37	50.78	74.0	23.22	158	358	
2	30133.00034.30	40.30	21.87	46.50	49.97	74.0	24.03	205	331	
3	33996.75032.80	41.53	24.18	46.70	51.81	74.0	22.19	254	358	
4	39983.50035.40	43.52	23.93	46.69	56.16	74.0	17.84	178	358	
----- Vertical -----										
5	27336.25035.30	38.77	21.08	45.37	49.78	74.0	24.22	255	0	
6	30133.00034.40	40.30	21.87	46.50	50.07	74.0	23.93	232	3	
7	33996.75032.70	41.53	24.18	46.70	51.71	74.0	22.29	345	0	
8	39983.50034.80	43.52	23.93	46.69	55.56	74.0	18.44	332	221	

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
Data cable	Ningbo	Ear-Mic	Cresyn

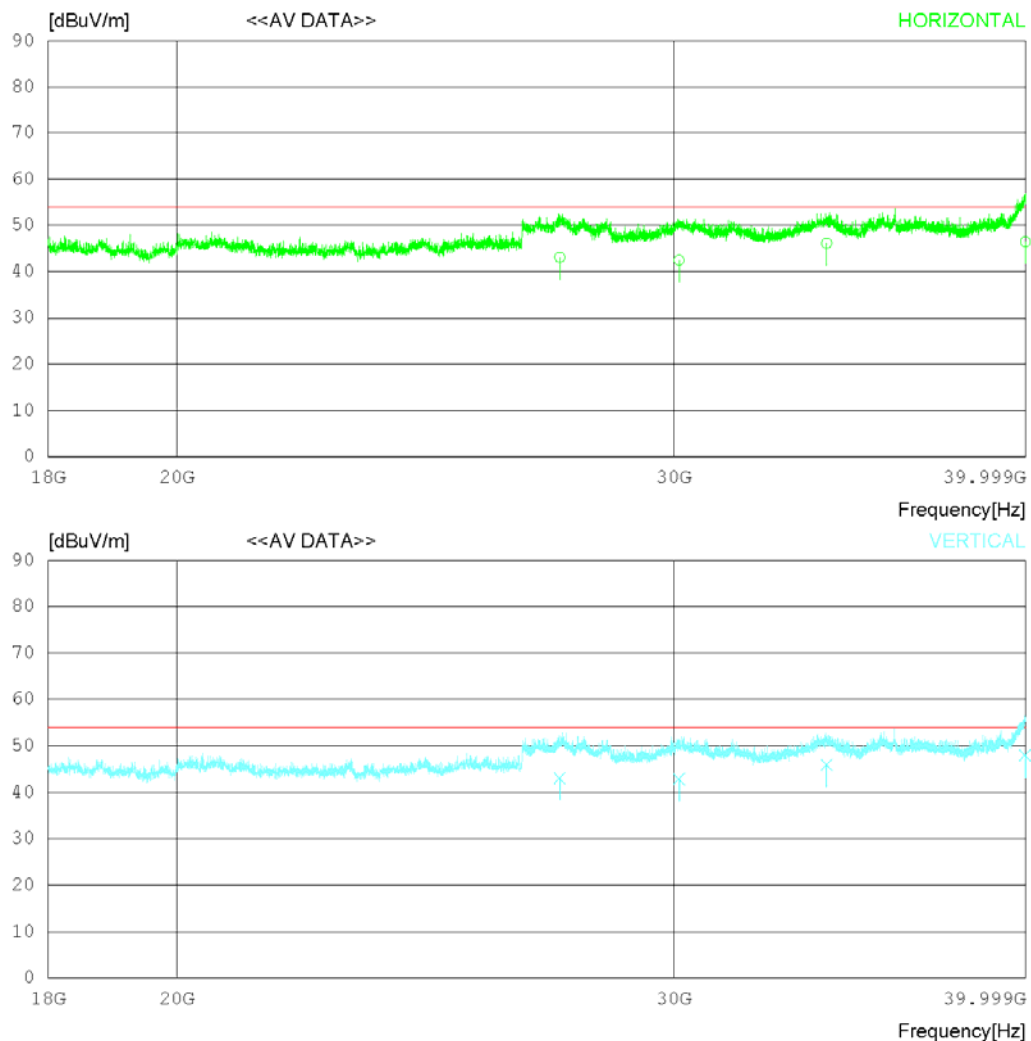
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+cresyn

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27336.12028.60		38.77	21.08	45.37	43.08	54.00	10.92	120	124
2	30133.42026.77		40.30	21.87	46.50	42.44	54.00	11.56	131	137
3	33996.71027.10		41.53	24.18	46.70	46.11	54.00	7.89	208	233
4	39983.32025.66		43.52	23.93	46.69	46.42	54.00	7.58	178	146
----- Vertical -----										
5	27336.21028.60		38.77	21.08	45.37	43.08	54.00	10.92	120	223
6	30133.24027.22		40.30	21.87	46.50	42.89	54.00	11.11	234	137
7	33996.71026.88		41.53	24.18	46.70	45.89	54.00	8.11	371	276
8	39983.54027.21		43.52	23.93	46.69	47.97	54.00	6.03	124	211

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Ningbo	Ear-Mic	Bujeon

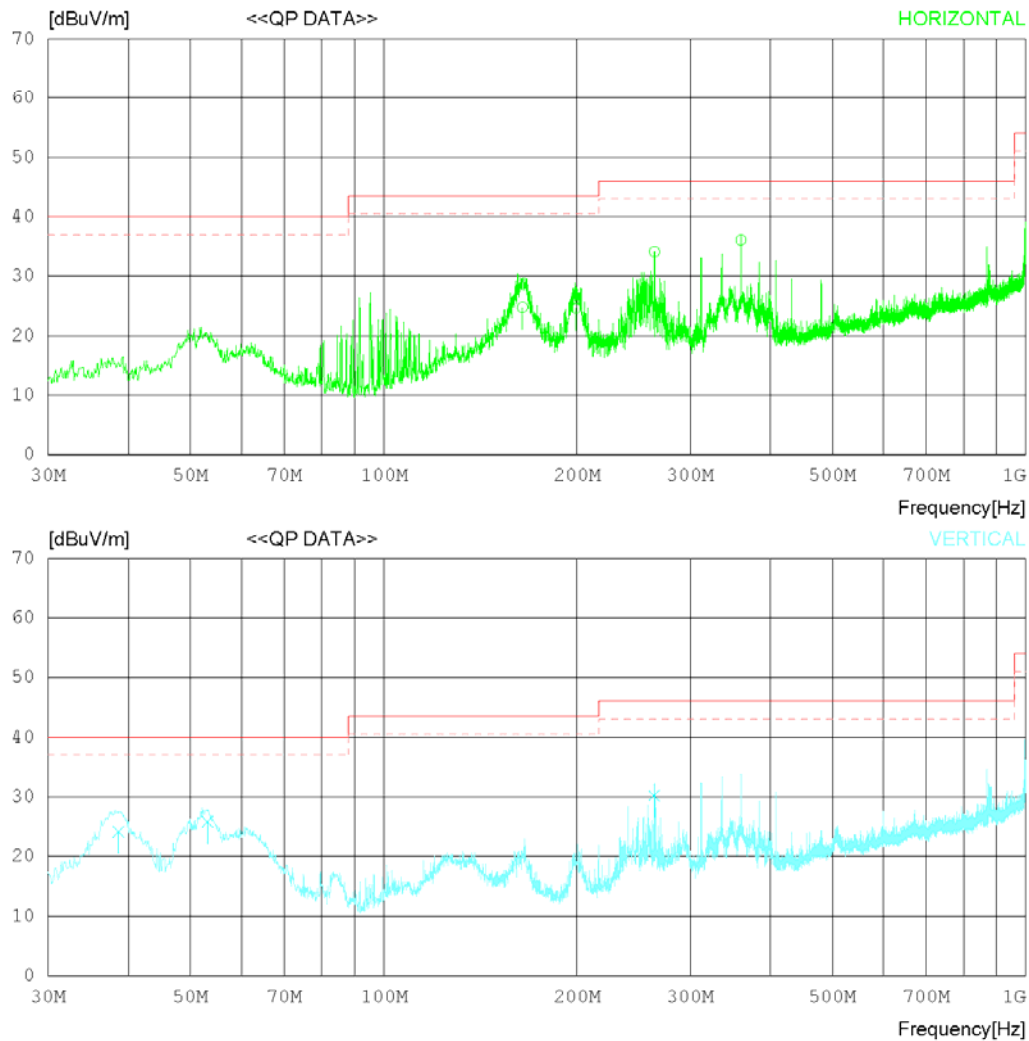
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	164.463	30.10	18.54	1.78	25.65	24.77	43.50	18.73	124	62
2	199.019	32.20	16.06	1.93	25.60	24.59	43.50	18.91	166	276
3	264.003	39.40	18.34	2.14	25.77	34.11	46.00	11.89	227	184
4	359.982	39.20	20.30	2.45	25.89	36.06	46.00	9.94	273	120
----- Vertical -----										
5	38.609	32.20	16.64	1.19	25.81	24.22	40.00	15.78	312	227
6	53.159	31.80	18.52	1.29	25.79	25.82	40.00	14.18	224	120
7	264.007	35.50	18.34	2.14	25.77	30.21	46.00	15.79	131	127

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
Data cable	Ningbo	Ear-Mic	Bujeon

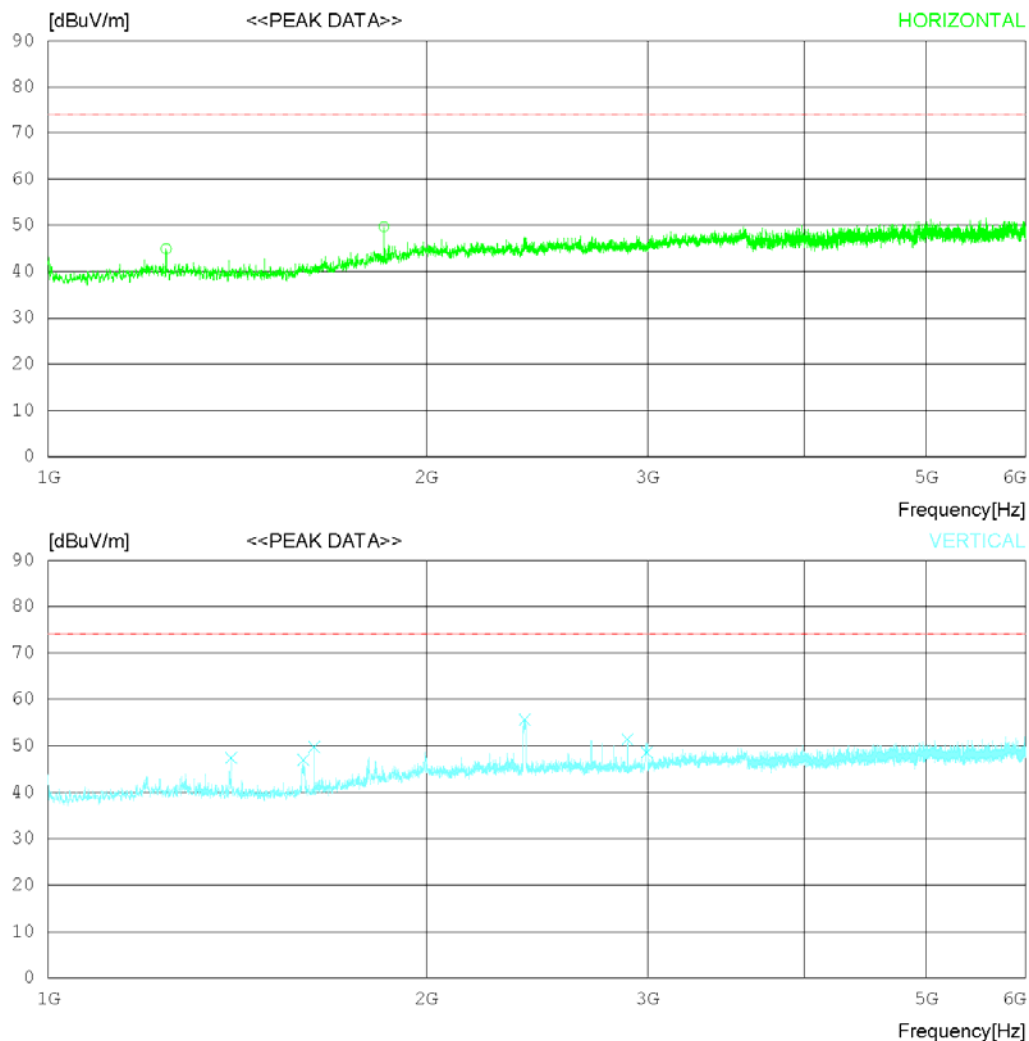
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1241.250	46.80	28.72	4.80	35.41	44.91	74.0	29.09	258	315
2	1850.000	47.90	30.60	5.77	34.55	49.72	74.0	24.28	355	350
----- Vertical -----										
3	1398.750	49.50	28.10	4.99	35.19	47.40	74.0	26.6	155	355
4	1596.250	48.20	28.38	5.27	34.91	46.94	74.0	27.06	102	0
5	1628.125	50.60	28.68	5.32	34.86	49.74	74.0	24.26	152	0
6	2395.625	51.80	31.79	6.64	34.57	55.66	74.0	18.34	247	0
7	2891.875	46.80	32.22	7.28	34.87	51.43	74.0	22.57	224	358
8	2997.500	43.50	32.50	7.51	34.93	48.58	74.0	25.42	230	340

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
Data cable	Ningbo	Ear-Mic	Bujeon

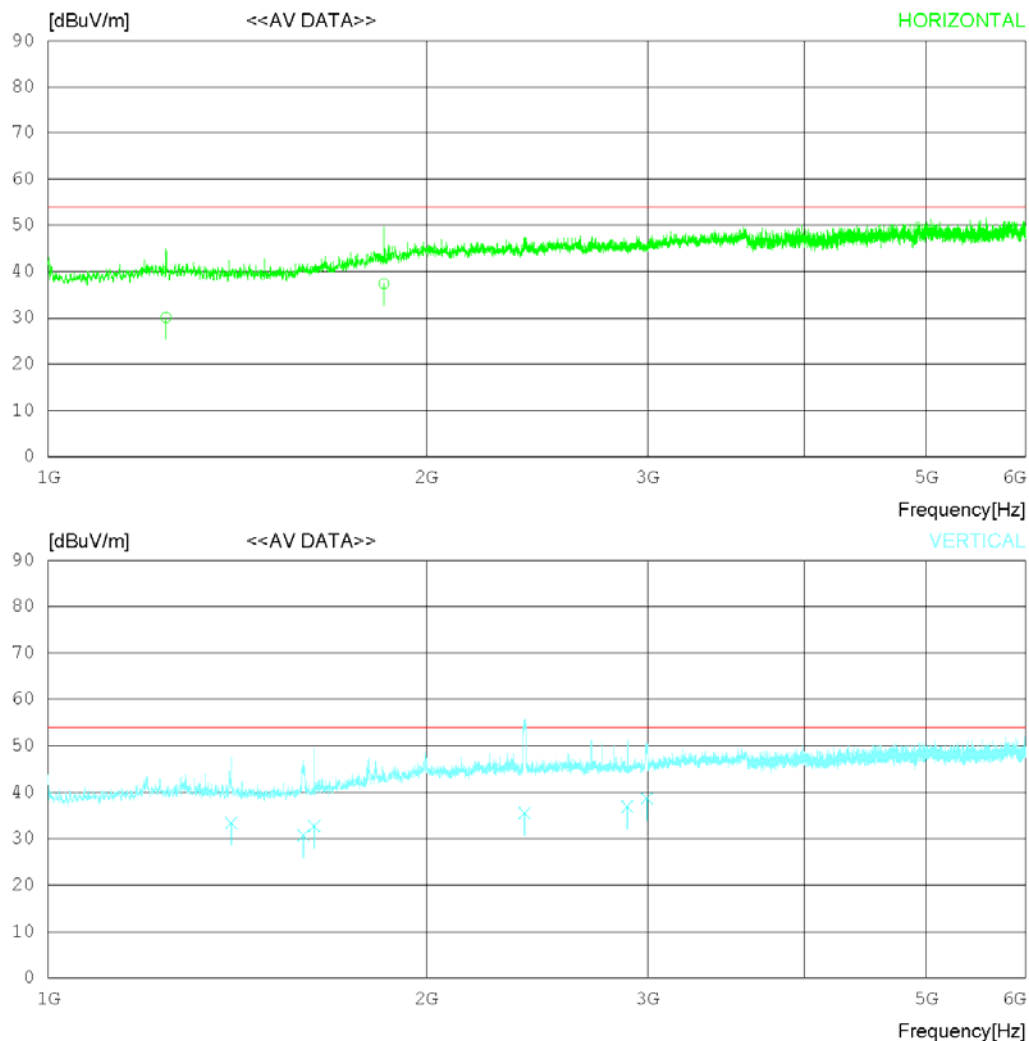
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1241.244	32.00	28.72	4.80	35.41	30.11	54.00	23.89	120	114
2	1850.034	35.60	30.60	5.77	34.55	37.42	54.00	16.58	227	312
----- Vertical -----										
3	1398.743	35.50	28.10	4.99	35.19	33.40	54.00	20.60	196	145
4	1596.244	32.00	28.38	5.27	34.91	30.74	54.00	23.26	188	120
5	1628.420	33.60	28.68	5.32	34.86	32.74	54.00	21.26	137	227
6	2395.611	31.70	31.79	6.64	34.57	35.56	54.00	18.44	227	134
7	2891.440	32.30	32.22	7.28	34.87	36.93	54.00	17.07	202	27
8	2997.542	33.60	32.50	7.51	34.93	38.68	54.00	15.32	120	134

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
Data cable	Ningbo	Ear-Mic	Bujeon

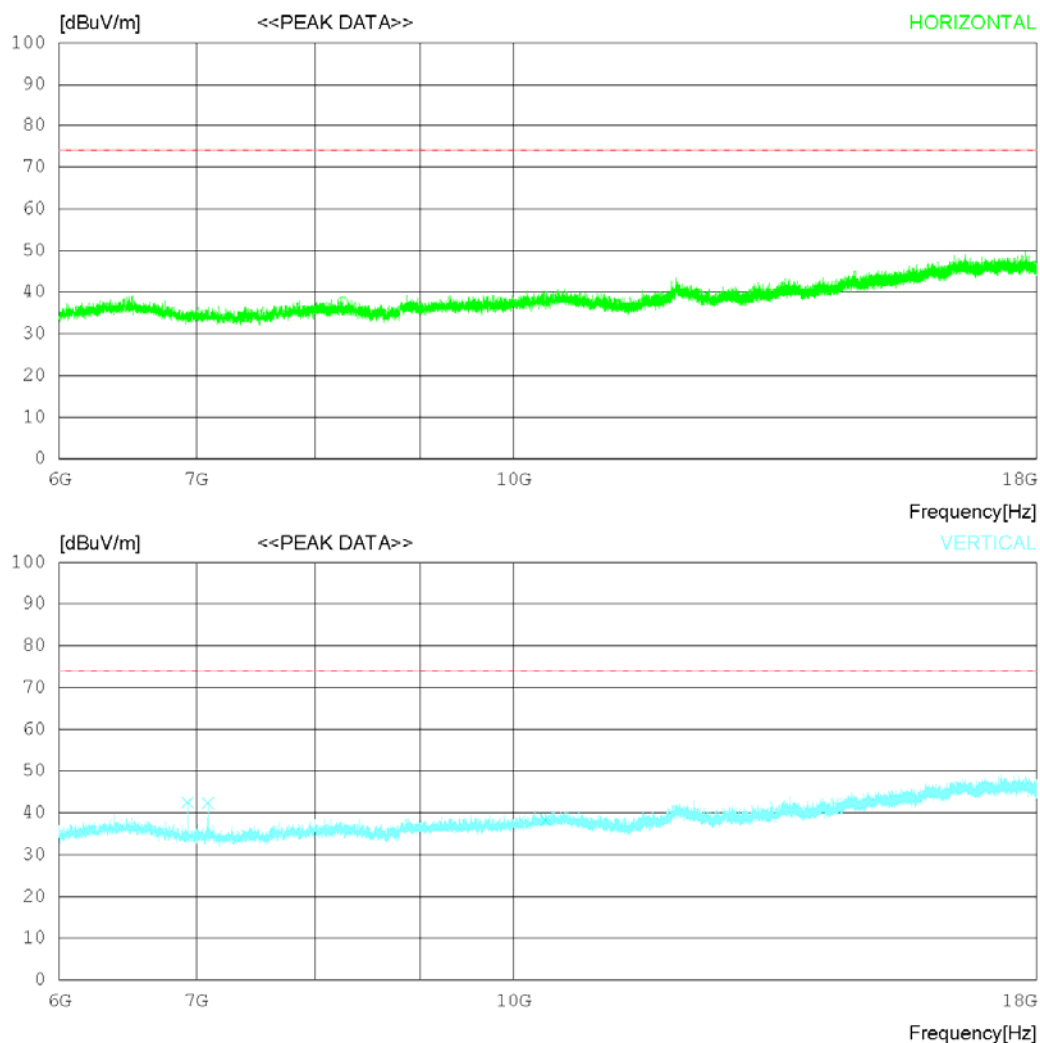
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8251.500	31.00	31.50	12.79	37.74	37.55	74.0	36.45	257	307
2	10124.250	28.50	32.53	14.43	37.96	37.50	74.0	36.5	115	0
3	11239.500	27.50	32.66	14.89	38.30	36.75	74.0	37.25	208	279
----- Vertical -----										
4	6932.250	38.10	31.47	11.58	38.65	42.50	74.0	31.5	125	135
5	7092.750	37.90	31.44	11.64	38.71	42.27	74.0	31.73	157	131
6	10363.500	29.30	32.50	14.52	38.07	38.25	74.0	35.75	236	0

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
Data cable	Ningbo	Ear-Mic	Bujeon

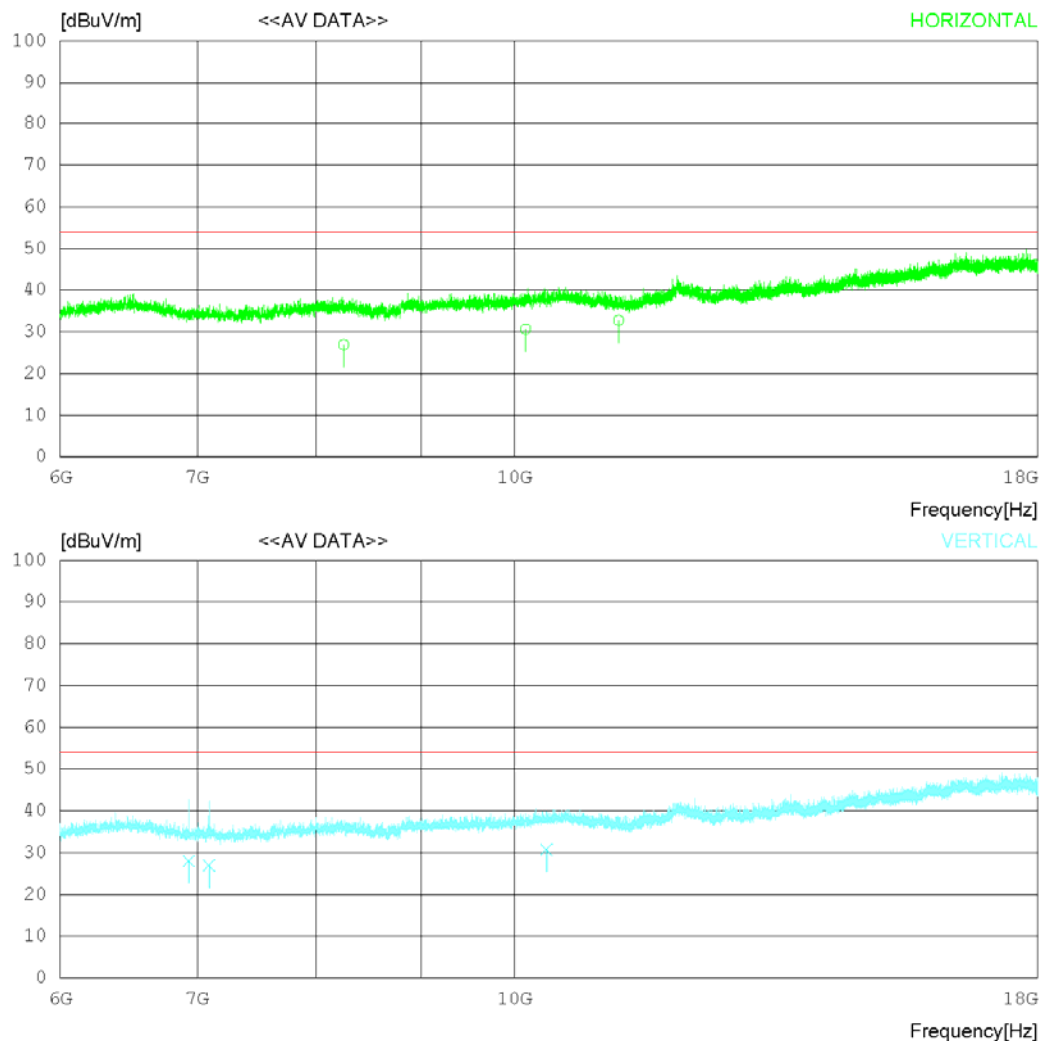
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	8251.511	20.33	31.50	12.79	37.74	26.88	54.00	27.12	124	173
2	10124.210	21.62	32.53	14.43	37.96	30.62	54.00	23.38	230	123
3	11239.530	23.50	32.66	14.89	38.30	32.75	54.00	21.25	227	294
----- Vertical -----										
4	6932.214	23.60	31.47	11.58	38.65	28.00	54.00	26.00	124	235
5	7092.732	22.60	31.44	11.64	38.71	26.97	54.00	27.03	223	78
6	10363.410	21.80	32.50	14.52	38.07	30.75	54.00	23.25	271	188

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Ningbo	Ear-Mic	Bujeon

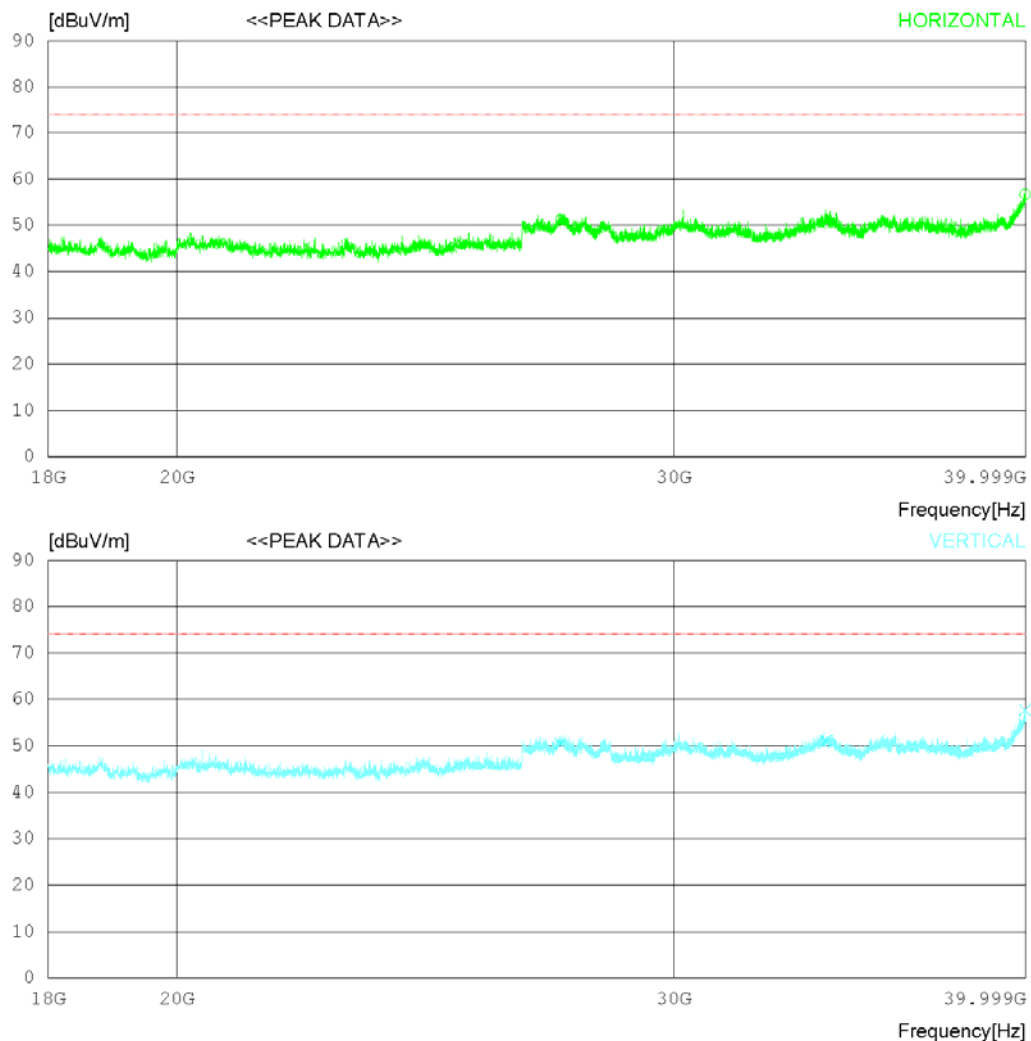
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

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]
----- Horizontal -----										
1	27361.00036.80	38.79	21.08	45.39	51.28	74.0	22.72	105	358	
2	33980.25031.60	41.50	24.16	46.71	50.55	74.0	23.45	245	262	
3	39978.00036.00	43.50	23.93	46.72	56.71	74.0	17.29	178	248	
----- Vertical -----										
4	27361.00036.00	38.79	21.08	45.39	50.48	74.0	23.52	156	0	
5	33980.25032.10	41.50	24.16	46.71	51.05	74.0	22.95	248	209	
6	39978.00037.00	43.50	23.93	46.72	57.71	74.0	16.29	223	1	

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
Data cable	Ningbo	Ear-Mic	Bujeon

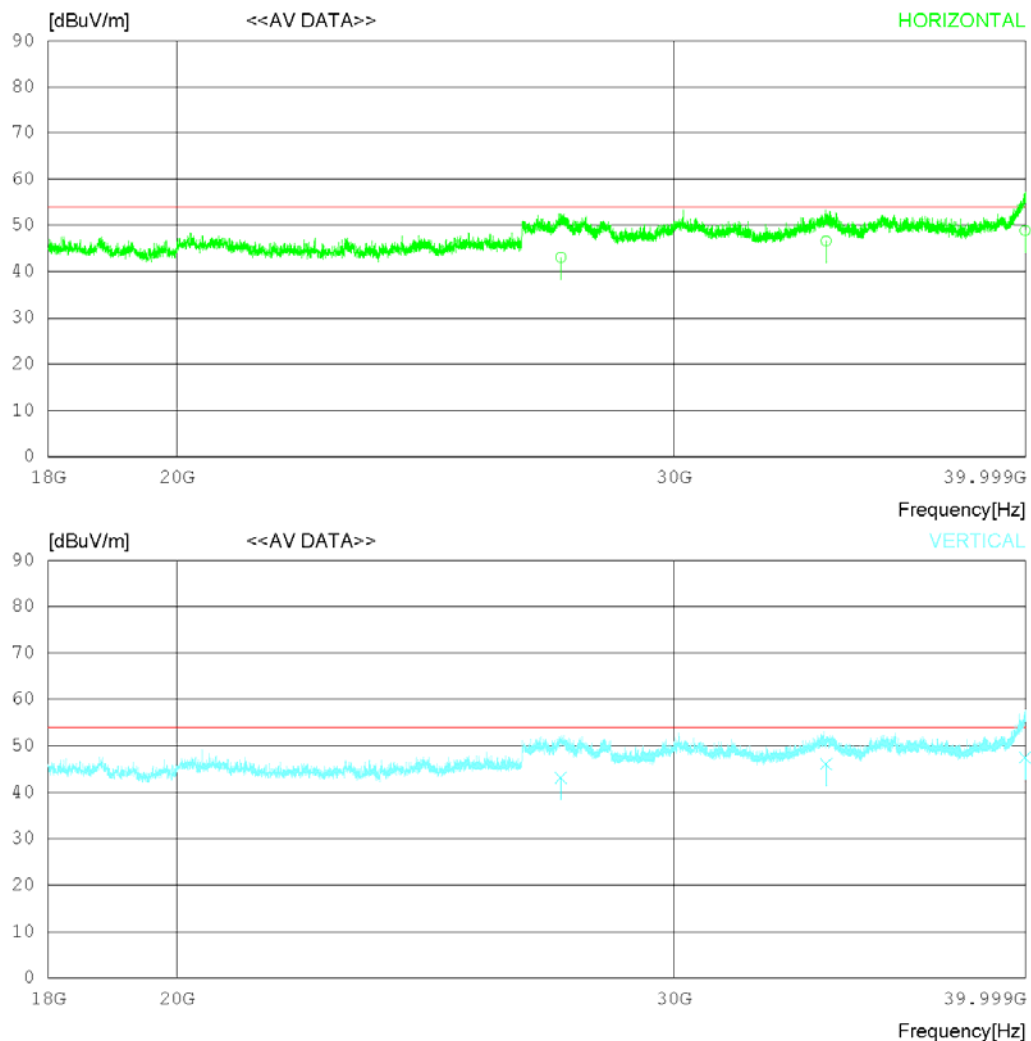
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo ningbo+bujeon

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27361.07028.60		38.79	21.08	45.39	43.08	54.00	10.92	120	12
2	33980.27027.66		41.50	24.16	46.71	46.61	54.00	7.39	234	172
3	39978.01028.12		43.50	23.93	46.72	48.83	54.00	5.17	277	218
----- Vertical -----										
4	27361.17028.64		38.79	21.08	45.39	43.12	54.00	10.88	120	120
5	33980.21027.12		41.50	24.16	46.71	46.07	54.00	7.93	234	223
6	39978.02026.70		43.50	23.93	46.72	47.41	54.00	6.59	134	137

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

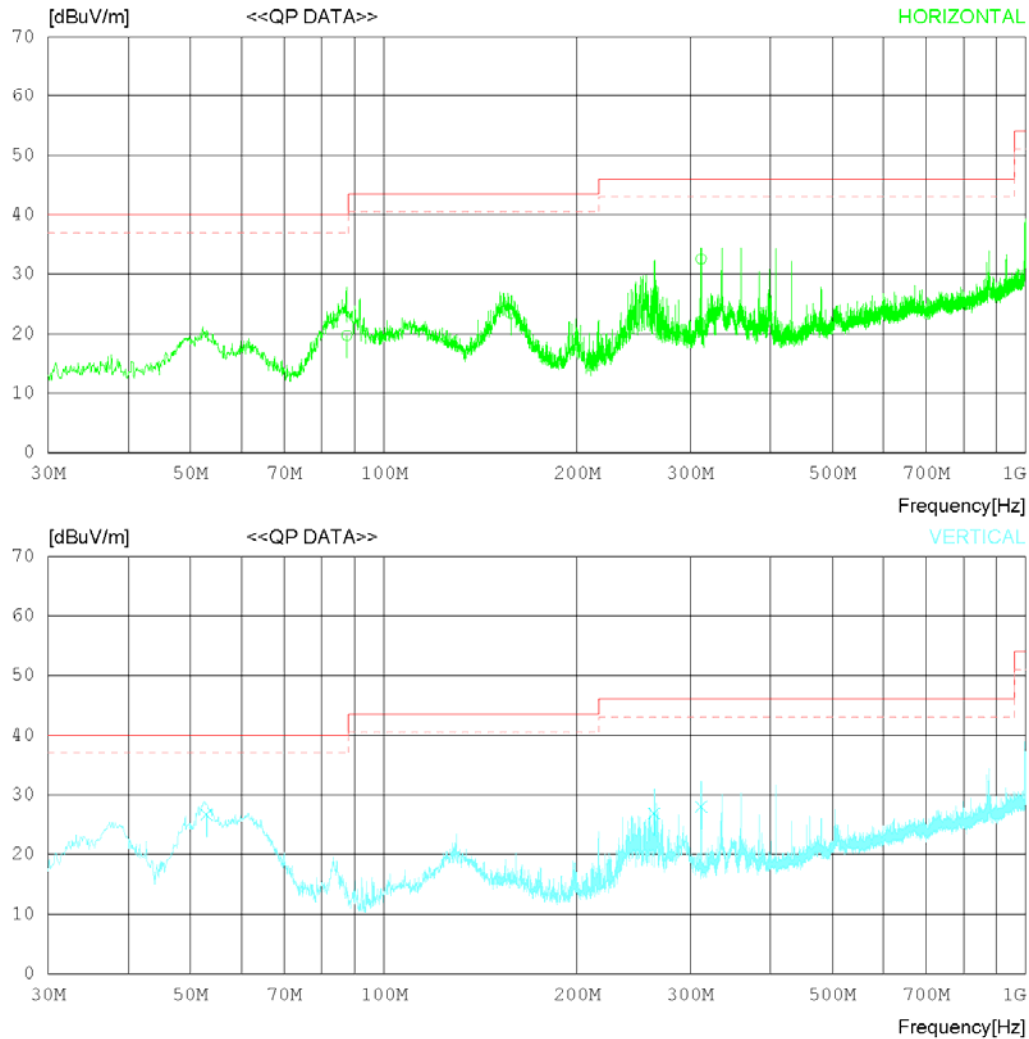
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	87.593	30.60	13.34	1.49	25.72	19.71	40.00	20.29	344	120
2	157.674	28.40	18.90	1.78	25.66	23.42	43.50	20.08	264	193
3	312.020	36.60	19.52	2.29	25.85	32.56	46.00	13.44	124	121
----- Vertical -----										
4	52.962	32.70	18.50	1.29	25.79	26.70	40.00	13.30	120	124
5	263.885	32.20	18.33	2.14	25.77	26.90	46.00	19.10	226	340
6	312.020	32.10	19.52	2.29	25.85	28.06	46.00	17.94	116	311

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
Data cable	Luxshare	Ear-Mic	Cresyn

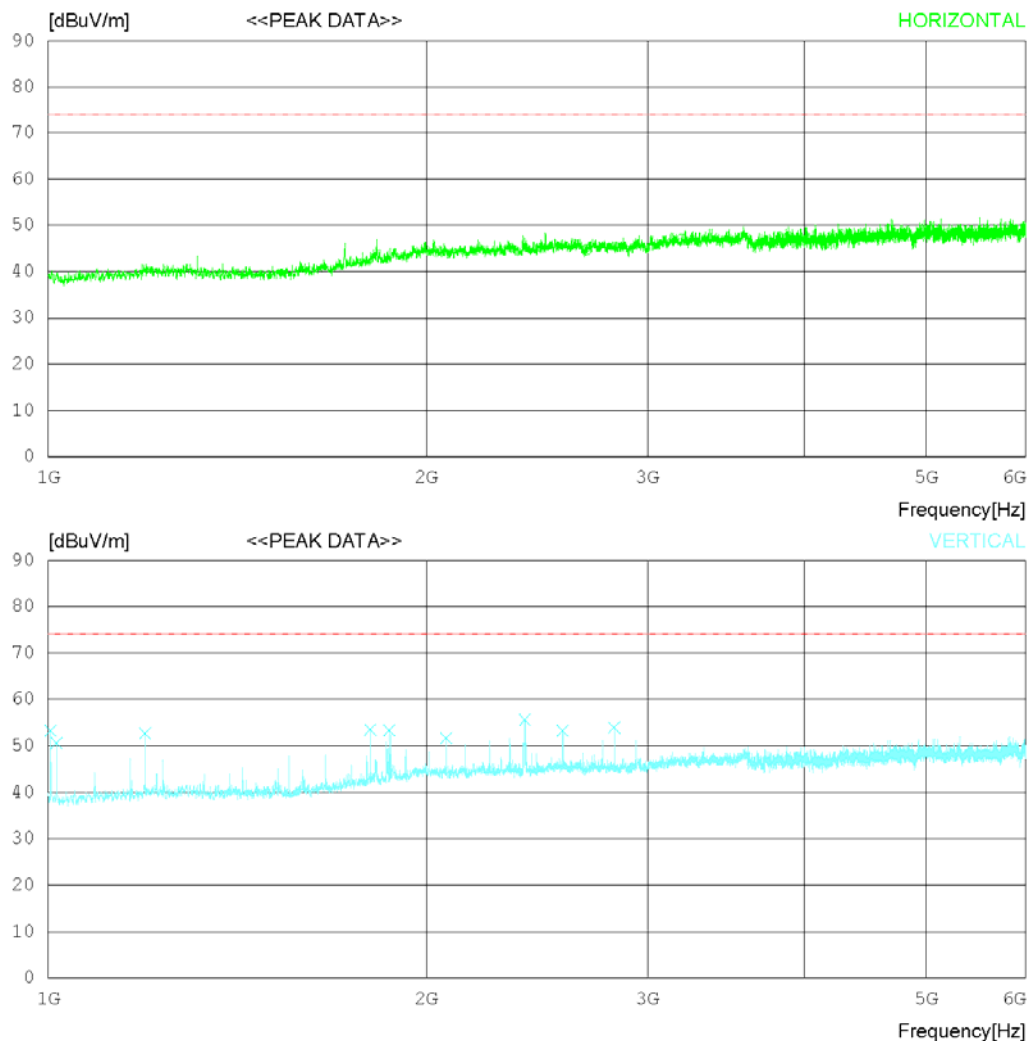
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2680.000	39.80	32.64	6.96	34.74	44.66	74.0	29.34	245	55
2	3194.375	40.70	33.18	7.72	34.66	46.94	74.0	27.06	124	358
3	3871.250	38.50	33.39	8.91	33.72	47.08	74.0	26.92	122	64
----- Vertical -----										
4	1004.375	57.00	27.77	4.22	35.74	53.25	74.0	20.75	178	139
5	1015.625	54.40	27.68	4.24	35.73	50.59	74.0	23.41	231	0
6	1194.375	54.70	28.72	4.73	35.48	52.67	74.0	21.33	217	117
7	1805.000	52.00	30.42	5.65	34.61	53.46	74.0	20.54	134	0
8	1868.125	51.30	30.78	5.81	34.53	53.36	74.0	20.64	223	11
9	2074.375	48.10	31.70	6.23	34.38	51.65	74.0	22.35	251	0
10	2395.625	51.70	31.79	6.64	34.57	55.56	74.0	18.44	132	0
11	2568.125	48.60	32.54	6.84	34.68	53.30	74.0	20.7	125	0
12	2822.500	49.30	32.30	7.14	34.83	53.91	74.0	20.09	155	0

Radiated disturbance at (1 ~ 6) GHz _Average measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Luxshare	Ear-Mic	Cresyn

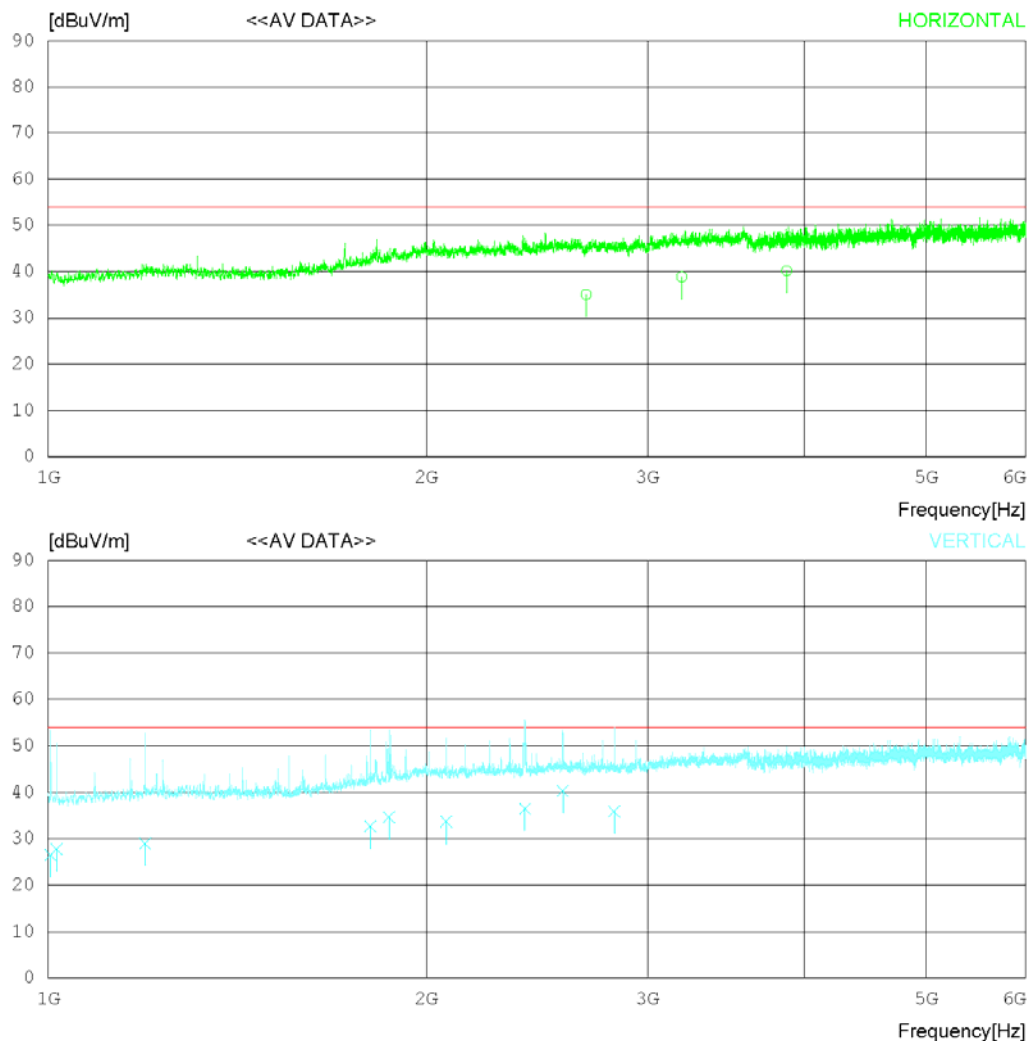
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2680.040	30.20	32.64	6.96	34.74	35.06	54.00	18.94	120	124
2	3194.311	32.60	33.18	7.72	34.66	38.84	54.00	15.16	127	177
3	3871.213	31.60	33.38	8.91	33.72	40.17	54.00	13.83	308	48
----- Vertical -----										
4	1004.312	30.20	27.77	4.22	35.74	26.45	54.00	27.55	201	78
5	1015.633	31.60	27.67	4.24	35.73	27.78	54.00	26.22	246	166
6	1194.314	30.99	28.72	4.73	35.48	28.96	54.00	25.04	134	203
7	1805.044	31.20	30.42	5.65	34.61	32.66	54.00	21.34	302	247
8	1868.166	32.60	30.78	5.81	34.53	34.66	54.00	19.34	177	134
9	2074.124	30.14	31.70	6.23	34.38	33.69	54.00	20.31	185	208
10	2395.640	32.60	31.79	6.64	34.57	36.46	54.00	17.54	163	134
11	2568.440	35.60	32.54	6.84	34.68	40.30	54.00	13.70	264	244
12	2822.521	31.20	32.30	7.14	34.83	35.81	54.00	18.19	177	120

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
Data cable	Luxshare	Ear-Mic	Cresyn

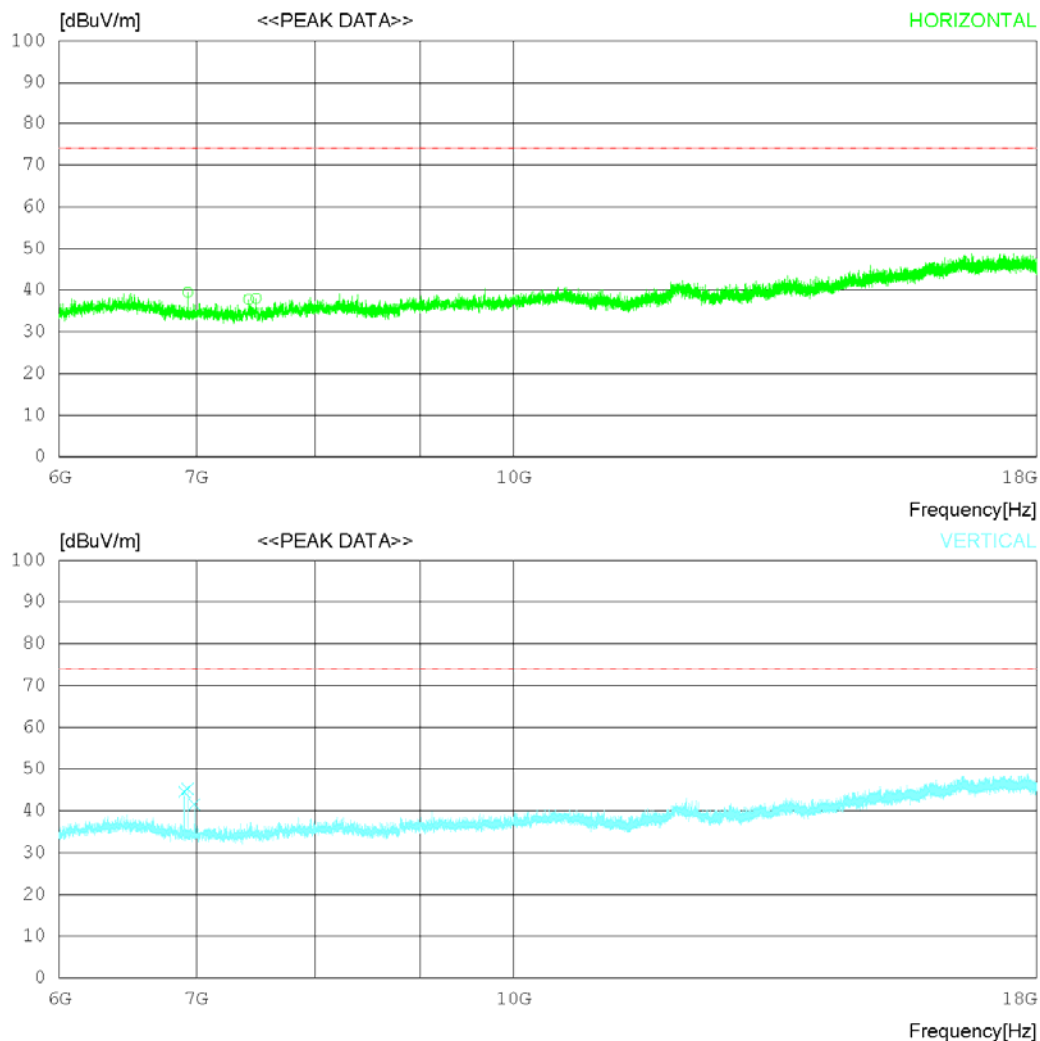
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

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]
----- Horizontal -----										
1	6932.250	35.10	31.47	11.58	38.65	39.50	74.0	34.5	125	125
2	7422.750	33.00	31.39	11.79	38.40	37.78	74.0	36.22	177	175
3	7485.750	33.10	31.38	11.86	38.34	38.00	74.0	36	240	358
----- Vertical -----										
4	6906.000	40.20	31.48	11.52	38.62	44.58	74.0	29.42	105	4
5	6933.000	40.90	31.47	11.59	38.65	45.31	74.0	28.69	177	0
6	6986.250	37.00	31.45	11.74	38.70	41.49	74.0	32.51	235	0

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
Data cable	Luxshare	Ear-Mic	Cresyn

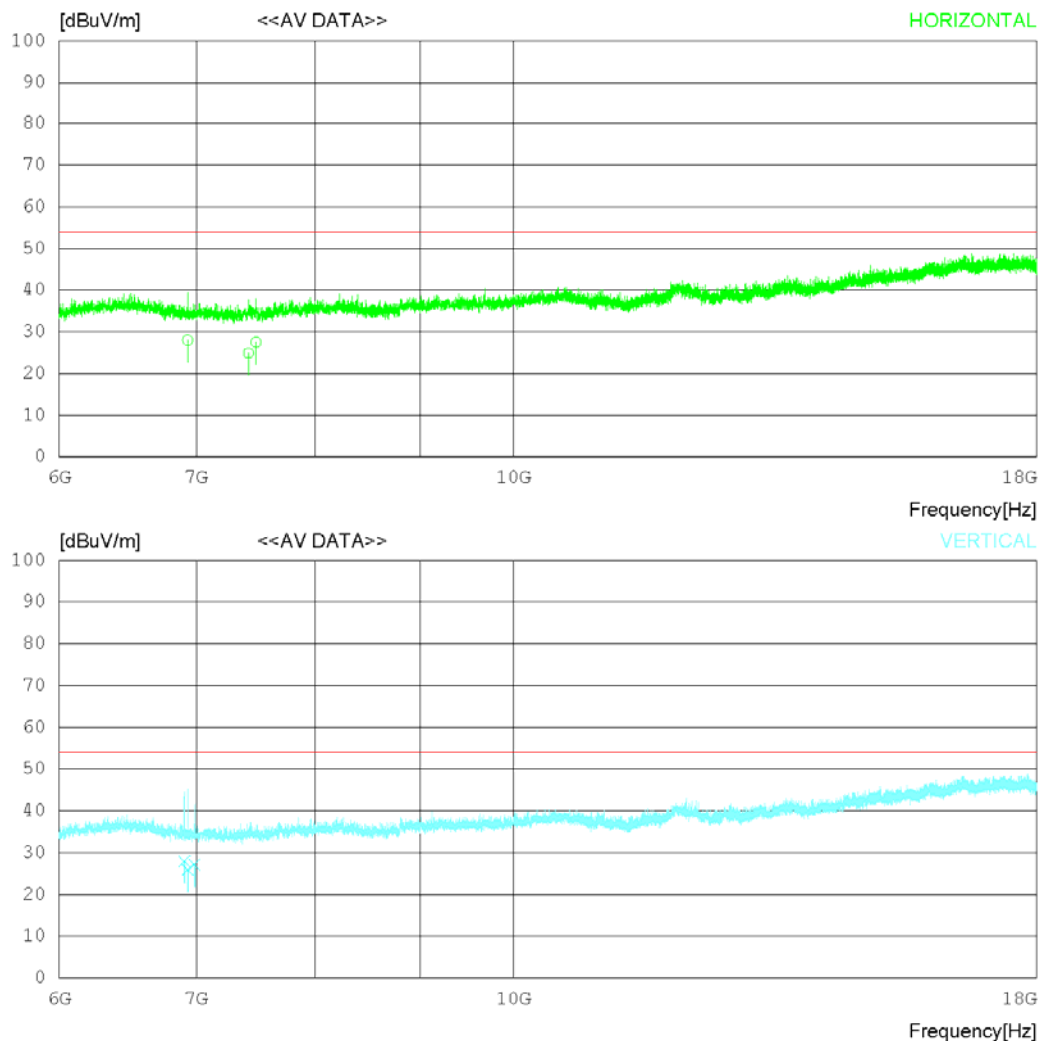
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

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 -----										
1	6932.215	23.60	31.47	11.58	38.65	28.00	54.00	26.00	120	201
2	7422.415	20.10	31.39	11.79	38.41	24.87	54.00	29.13	273	153
3	7485.744	22.60	31.38	11.86	38.34	27.50	54.00	26.50	133	311
----- Vertical -----										
4	6906.243	23.60	31.48	11.52	38.62	27.98	54.00	26.02	120	124
5	6933.178	21.50	31.47	11.59	38.65	25.91	54.00	28.09	273	172
6	6986.233	22.70	31.45	11.74	38.70	27.19	54.00	26.81	212	200

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

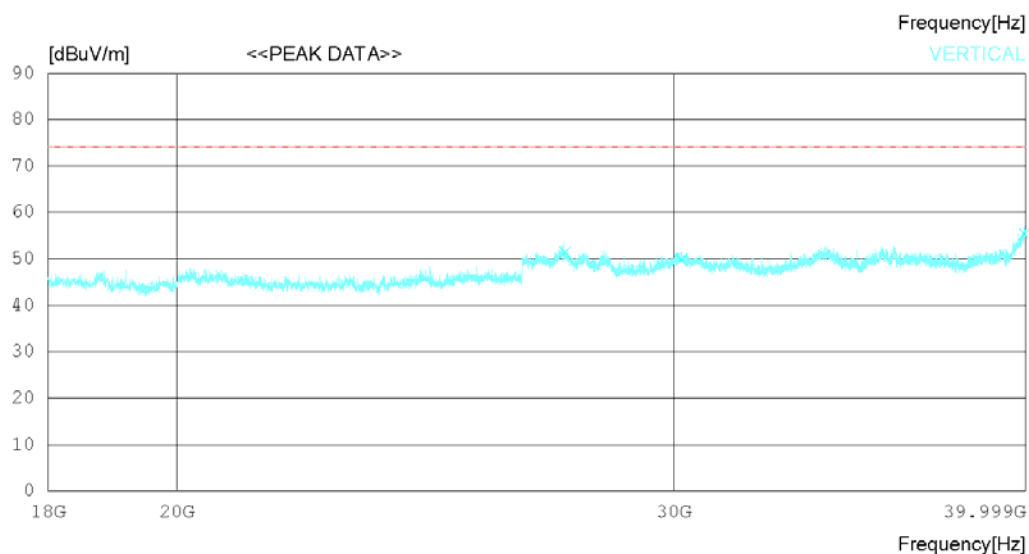
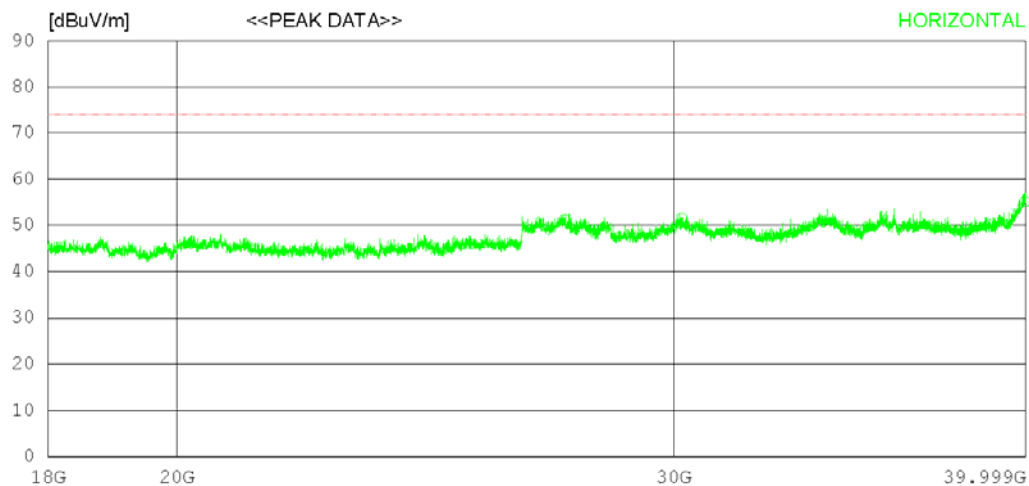
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

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]
----- Horizontal -----										
1	27451.75036.80	38.83	21.10	45.46	51.27	74.0	22.73	105	147	
2	30196.25035.90	40.28	21.92	46.50	51.60	74.0	22.4	142	358	
3	39969.75034.50	43.47	23.94	46.77	55.14	74.0	18.86	177	358	
----- Vertical -----										
4	27451.75036.90	38.83	21.10	45.46	51.37	74.0	22.63	150	0	
5	30196.25034.10	40.28	21.92	46.50	49.80	74.0	24.2	247	18	
6	39969.75034.70	43.47	23.94	46.77	55.34	74.0	18.66	250	63	

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
Data cable	Luxshare	Ear-Mic	Cresyn

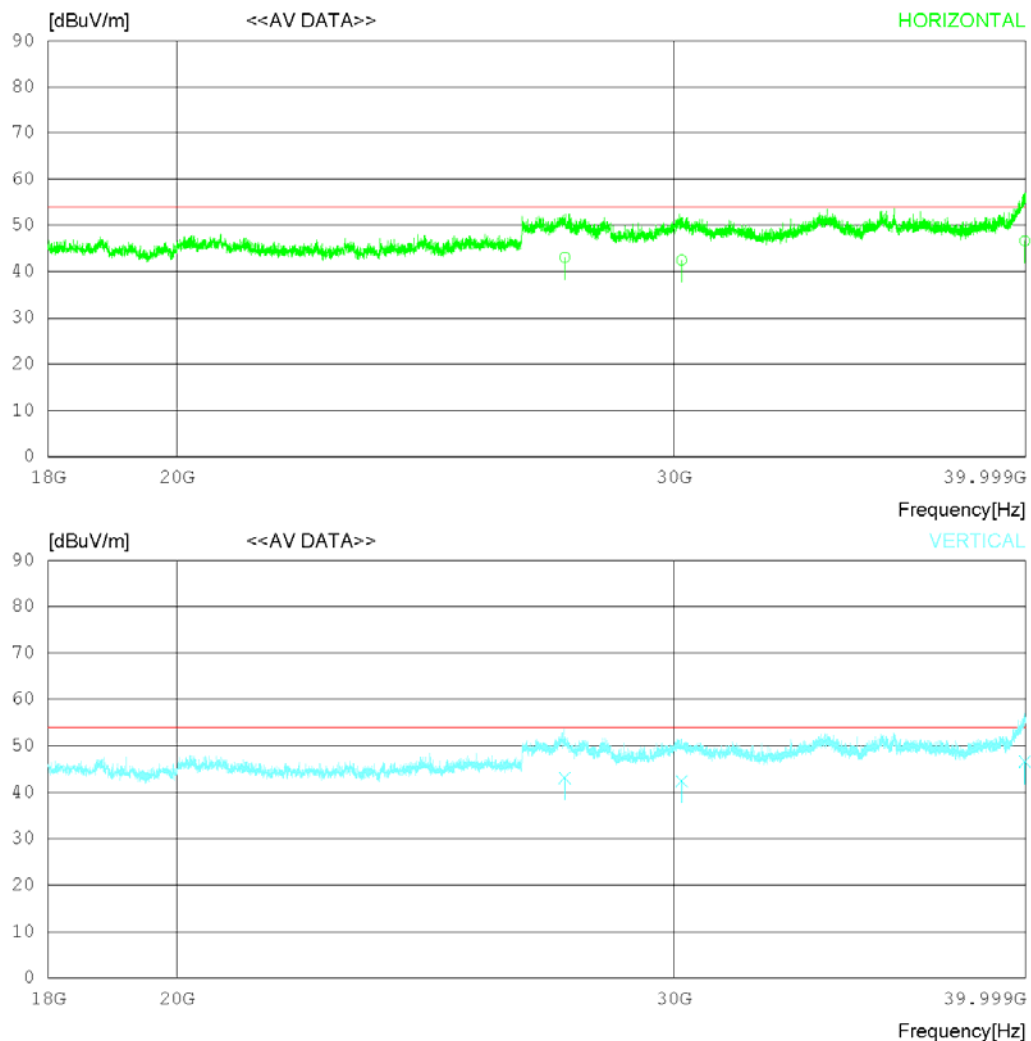
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27451.42028.60		38.83	21.10	45.46	43.07	54.00	10.93	120	174
2	30196.21026.77		40.28	21.92	46.50	42.47	54.00	11.53	234	311
3	39969.46025.96		43.47	23.94	46.77	46.60	54.00	7.40	137	261
----- Vertical -----										
4	27451.23028.60		38.83	21.10	45.46	43.07	54.00	10.93	120	78
5	30196.21026.70		40.28	21.92	46.50	42.40	54.00	11.60	234	118
6	39969.42025.97		43.47	23.94	46.77	46.61	54.00	7.39	113	136

Radiated disturbance at (30 ~ 1000) MHz _Measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Luxshare	Ear-Mic	Bujeon

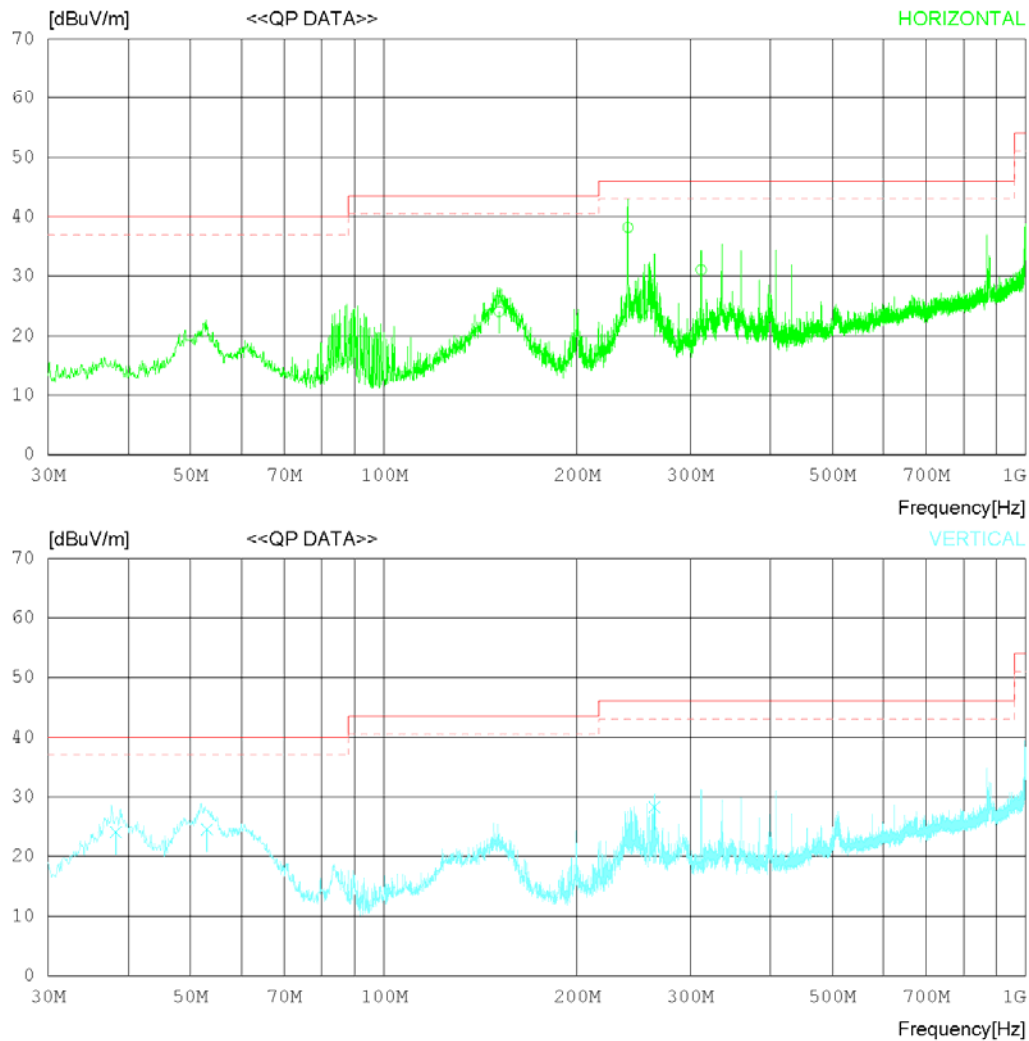
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	151.126	29.10	18.90	1.77	25.67	24.10	43.50	19.40	380	276
2	240.006	43.70	18.10	2.07	25.71	38.16	46.00	7.84	120	120
3	312.020	35.10	19.52	2.29	25.85	31.06	46.00	14.94	224	132
----- Vertical -----										
4	38.245	32.20	16.50	1.18	25.81	24.07	40.00	15.93	120	112
5	53.038	30.60	18.50	1.29	25.79	24.60	40.00	15.40	227	233
6	264.007	33.60	18.34	2.14	25.77	28.31	46.00	17.69	380	137

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
Data cable	Luxshare	Ear-Mic	Bujeon

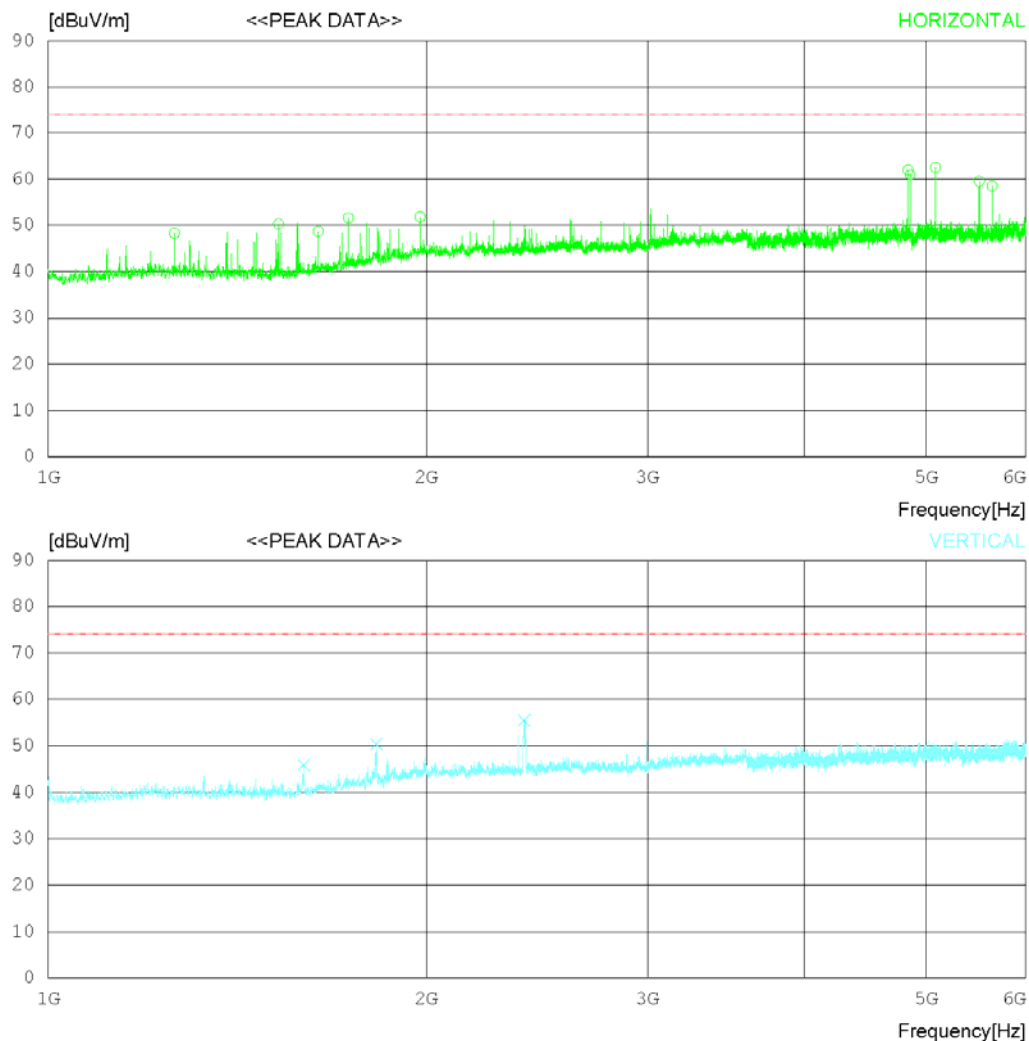
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1260.625	50.10	28.72	4.82	35.38	48.26	74.0	25.74	125	358
2	1525.000	52.10	28.00	5.16	35.01	50.25	74.0	23.75	240	55
3	1640.625	49.40	28.81	5.35	34.85	48.71	74.0	25.29	145	358
4	1733.750	51.40	29.41	5.51	34.72	51.60	74.0	22.4	125	358
5	1976.875	48.60	31.55	6.06	34.37	51.84	74.0	22.16	166	351
6	4835.000	52.00	34.00	10.58	34.64	61.94	74.0	12.06	172	351
7	4855.000	51.00	34.01	10.60	34.67	60.94	74.0	13.06	230	30
8	5086.250	52.50	34.13	10.71	34.87	62.47	74.0	11.53	243	58
9	5508.750	49.00	34.62	10.83	34.93	59.52	74.0	14.48	124	353
10	5641.250	47.90	34.60	10.94	34.95	58.49	74.0	15.51	277	358
----- Vertical -----										
11	1597.500	47.10	28.39	5.27	34.91	45.85	74.0	28.15	205	0
12	1825.000	48.80	30.50	5.69	34.59	50.40	74.0	23.6	124	358
13	2393.125	51.60	31.79	6.64	34.57	55.46	74.0	18.54	122	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
Data cable	Luxshare	Ear-Mic	Bujeon

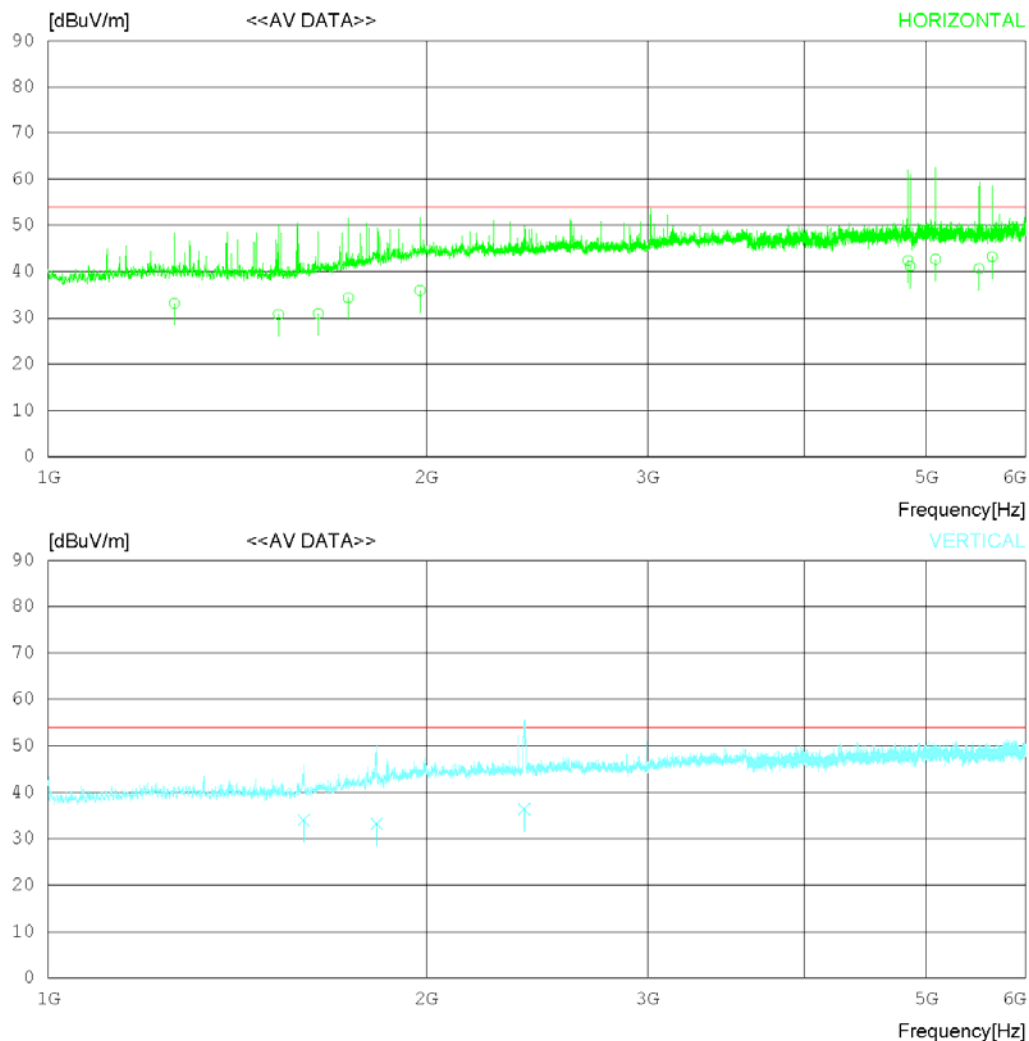
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1260.120	35.00	28.72	4.82	35.38	33.16	54.00	20.84	177	223
2	1525.077	32.62	28.00	5.16	35.01	30.77	54.00	23.23	206	144
3	1640.612	31.66	28.81	5.35	34.85	30.97	54.00	23.03	156	208
4	1733.711	34.12	29.40	5.51	34.72	34.31	54.00	19.69	352	144
5	1976.416	32.67	31.55	6.06	34.37	35.91	54.00	18.09	341	277
6	4835.031	32.45	34.00	10.58	34.64	42.39	54.00	11.61	331	124
7	4855.077	31.27	34.01	10.60	34.67	41.21	54.00	12.79	273	103
8	5086.120	32.67	34.13	10.71	34.87	42.64	54.00	11.36	301	144
9	5508.420	30.10	34.62	10.83	34.93	40.62	54.00	13.38	124	353
10	5641.277	32.60	34.60	10.94	34.95	43.19	54.00	10.81	279	120
----- Vertical -----										
11	1597.420	35.22	28.38	5.27	34.91	33.96	54.00	20.04	341	120
12	1825.022	31.60	30.50	5.69	34.59	33.20	54.00	20.80	302	11
13	2393.177	32.50	31.79	6.64	34.57	36.36	54.00	17.64	133	273

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
Data cable	Luxshare	Ear-Mic	Bujeon

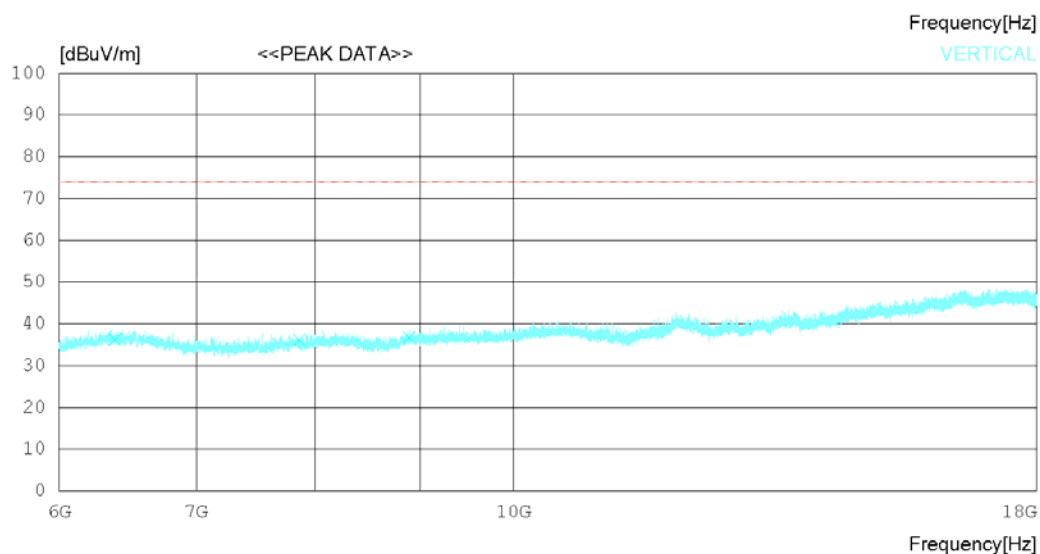
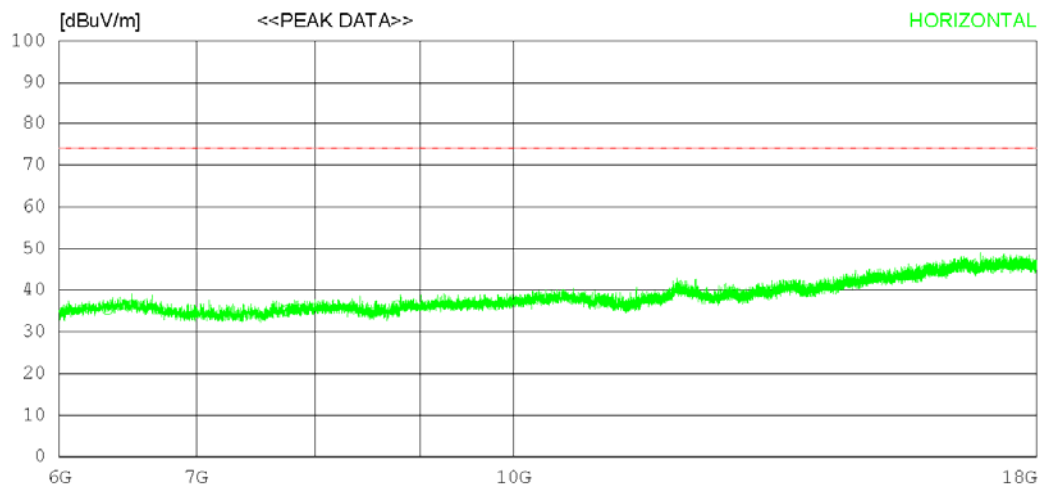
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	6334.500	31.40	31.63	11.04	38.75	35.32	74.0	38.68	124	0
2	7746.000	29.40	31.34	12.44	38.14	35.04	74.0	38.96	208	71
3	8779.500	29.40	31.92	13.31	38.34	36.29	74.0	37.71	244	0
----- Vertical -----										
4	6384.750	32.20	31.62	11.14	38.67	36.29	74.0	37.71	178	8
5	7857.750	30.40	31.32	12.51	38.05	36.18	74.0	37.82	125	75
6	8888.250	30.00	32.01	13.38	38.63	36.76	74.0	37.24	150	0

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
Data cable	Luxshare	Ear-Mic	Bujeon

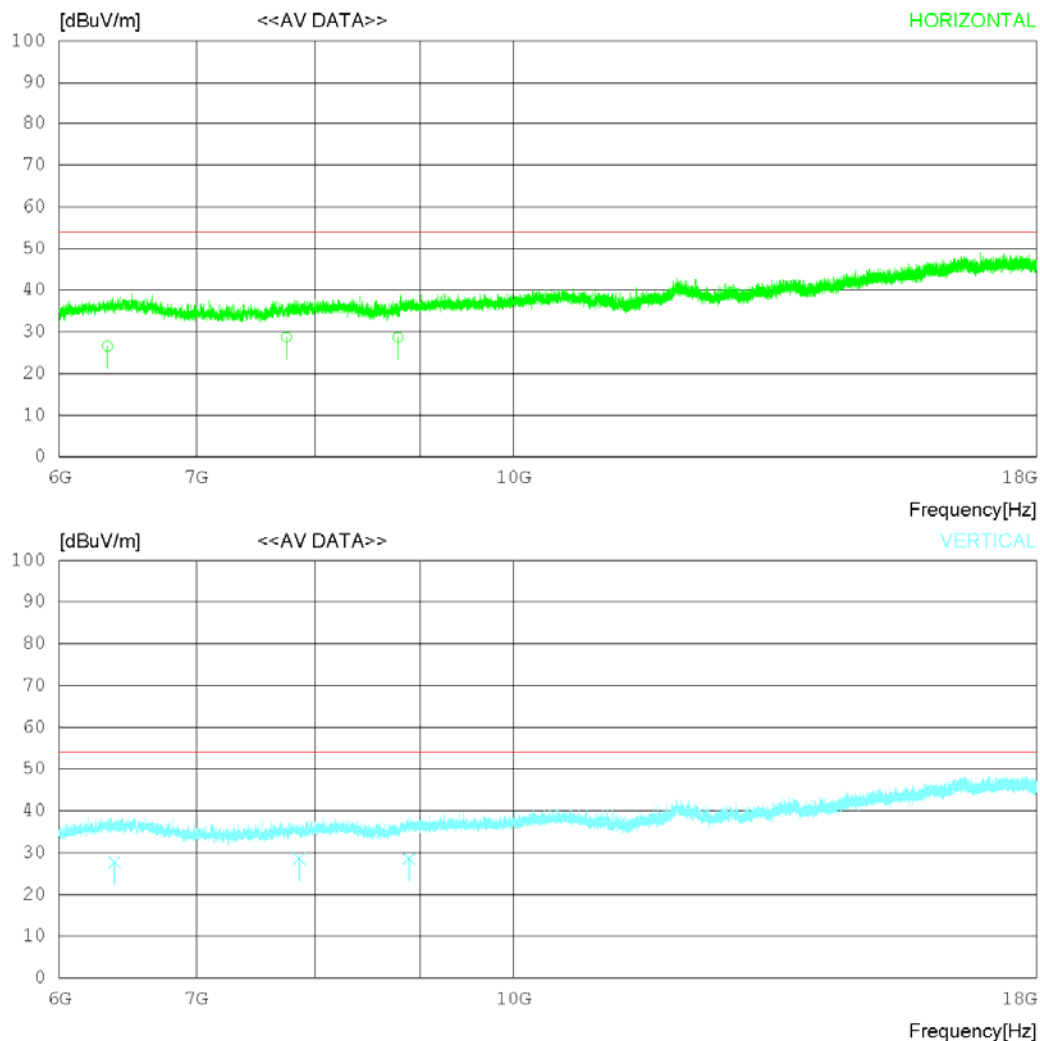
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	6334.541	22.60	31.63	11.04	38.75	26.52	54.00	27.48	120	78
2	7746.041	23.10	31.34	12.44	38.14	28.74	54.00	25.26	223	172
3	8779.532	21.80	31.92	13.31	38.34	28.69	54.00	25.31	137	235
----- Vertical -----										
4	6384.711	23.60	31.62	11.14	38.67	27.69	54.00	26.31	120	124
5	7857.416	22.80	31.32	12.51	38.05	28.58	54.00	25.42	273	230
6	8888.224	21.80	32.01	13.38	38.63	28.56	54.00	25.44	148	78

Radiated disturbance at (18 ~ 40) GHz _Peak measurement data			
Test configuration mode	2	EUT Operation mode	2
Test voltage (V)	120	Test Frequency (Hz)	60
Data cable	Luxshare	Ear-Mic	Bujeon

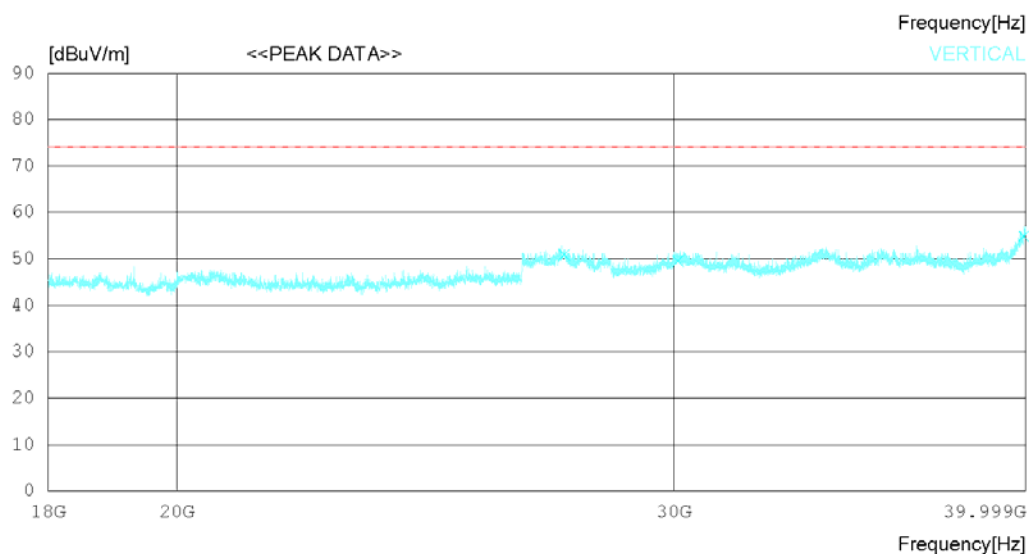
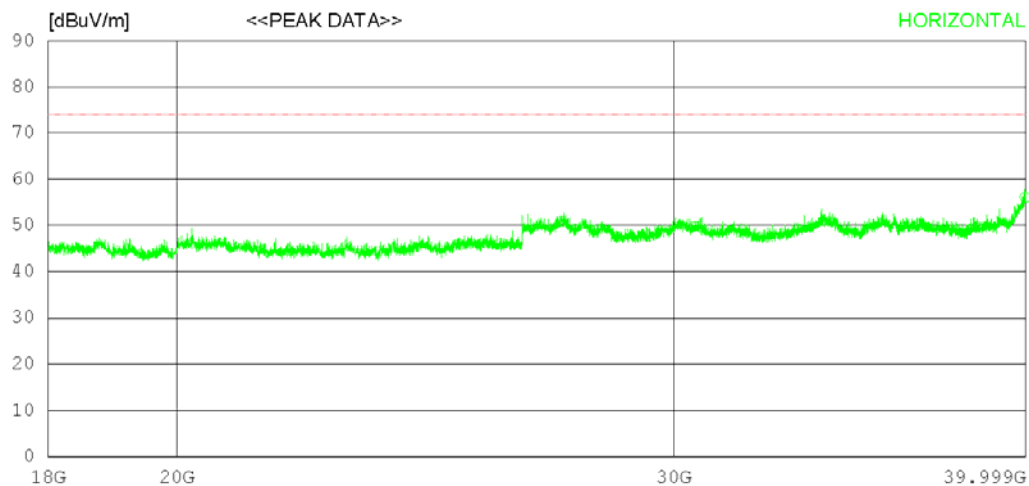
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

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]
----- Horizontal -----										
1	27369.25036.40	38.79	21.08	45.40	50.87	74.0	23.13	125	359	
2	30504.25033.90	40.16	22.13	46.50	49.69	74.0	24.31	240	0	
3	39980.75035.30	43.51	23.93	46.71	56.03	74.0	17.97	174	348	
----- Vertical -----										
4	27440.75036.40	38.83	21.10	45.45	50.88	74.0	23.12	123	251	
5	30113.75033.90	40.31	21.86	46.50	49.57	74.0	24.43	108	260	
6	39950.50034.40	43.39	23.97	46.88	54.88	74.0	19.12	154	0	

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
Data cable	Luxshare	Ear-Mic	Bujeon

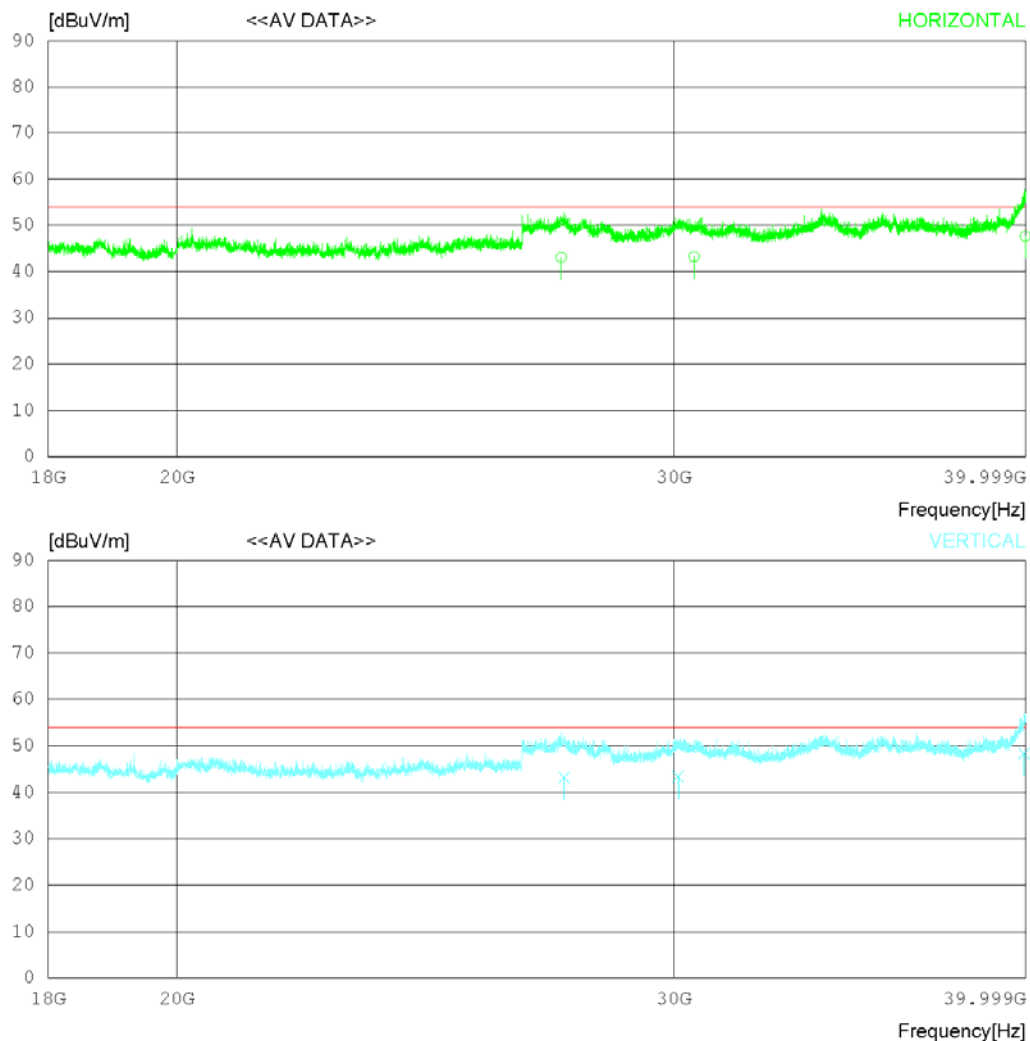
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition DATA COMMUNICATION

Memo Luxshare+bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	27369.21028.60		38.79	21.08	45.40	43.07	54.00	10.93	207	302
2	30504.26027.42		40.16	22.13	46.50	43.21	54.00	10.79	164	14
3	39980.17026.88		43.51	23.93	46.71	47.61	54.00	6.39	248	322
----- Vertical -----										
4	27440.42028.64		38.83	21.10	45.45	43.12	54.00	10.88	167	120
5	30113.71027.66		40.31	21.86	46.50	43.33	54.00	10.67	206	137
6	39950.46027.85		43.39	23.97	46.88	48.33	54.00	5.67	112	277

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

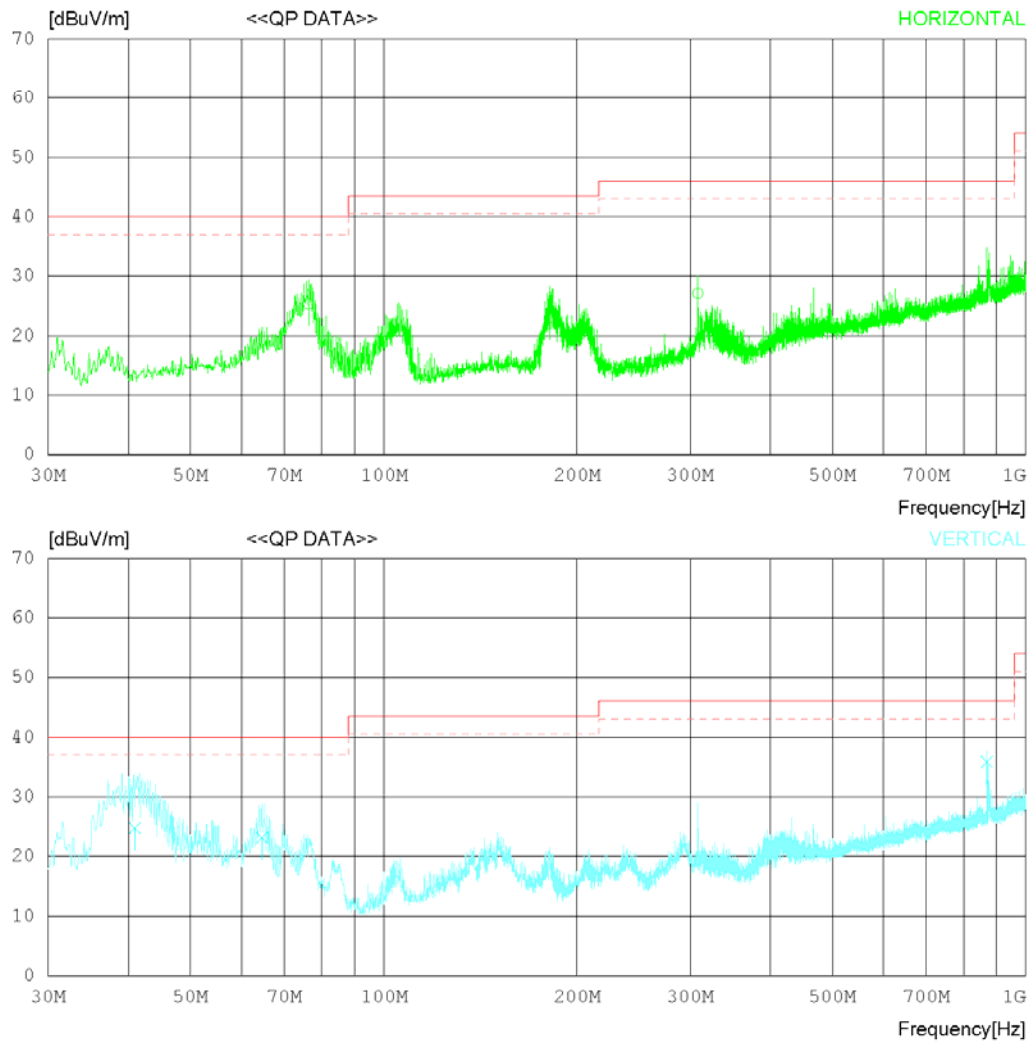
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	76.317	34.10	15.54	1.44	25.75	25.33	40.00	14.67	224	134
2	181.438	29.90	16.94	1.84	25.63	23.05	43.50	20.45	120	277
3	308.383	31.20	19.50	2.28	25.85	27.13	46.00	18.87	370	218
----- Vertical -----										
4	40.979	32.10	17.29	1.20	25.81	24.78	40.00	15.22	308	30
5	64.556	30.10	17.53	1.32	25.77	23.18	40.00	16.82	124	113
6	870.086	28.90	29.20	3.55	25.78	35.87	46.00	10.13	113	120

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
-	-	Ear-Mic	Cresyn

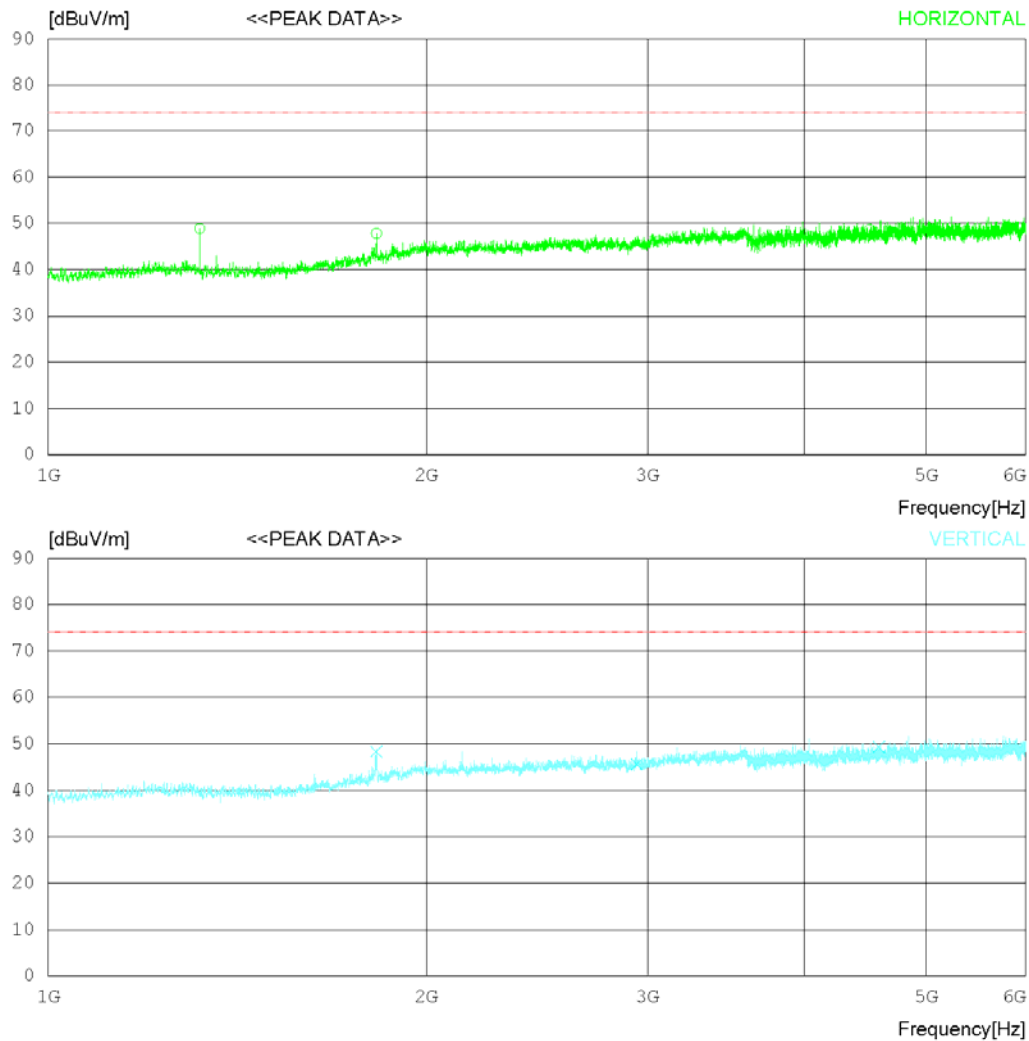
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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

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]
----- Horizontal -----										
1	1320.000	50.80	28.48	4.89	35.30	48.87	74.0	25.13	155	358
2	1825.000	46.20	30.50	5.69	34.59	47.80	74.0	26.2	256	140
3	4508.125	39.00	33.90	9.94	34.21	48.63	74.0	25.37	246	176
----- Vertical -----										
4	1825.625	46.70	30.50	5.69	34.59	48.30	74.0	25.7	155	0
5	2941.250	40.70	32.37	7.39	34.90	45.56	74.0	28.44	270	0
6	4584.375	39.60	33.97	10.02	34.31	49.28	74.0	24.72	120	34

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
-	-	Ear-Mic	Cresyn

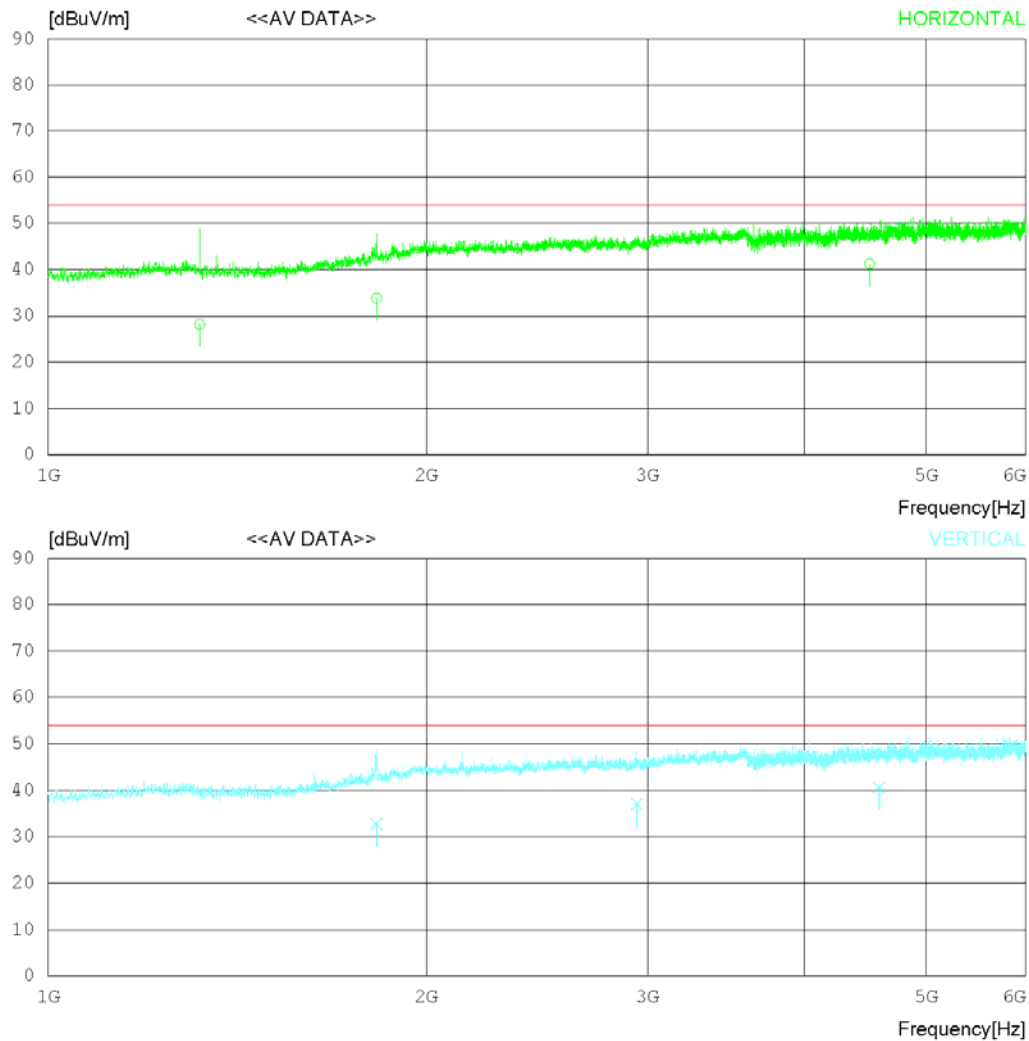
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1320.012	30.10	28.48	4.89	35.30	28.17	54.00	25.83	120	230
2	1825.033	32.20	30.50	5.69	34.59	33.80	54.00	20.20	227	140
3	4508.140	31.60	33.90	9.94	34.21	41.23	54.00	12.77	134	142
----- Vertical -----										
4	1825.420	31.20	30.50	5.69	34.59	32.80	54.00	21.20	277	120
5	2941.211	32.20	32.36	7.39	34.90	37.05	54.00	16.95	223	227
6	4584.360	30.90	33.97	10.02	34.31	40.58	54.00	13.42	120	137

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
-	-	Ear-Mic	Cresyn

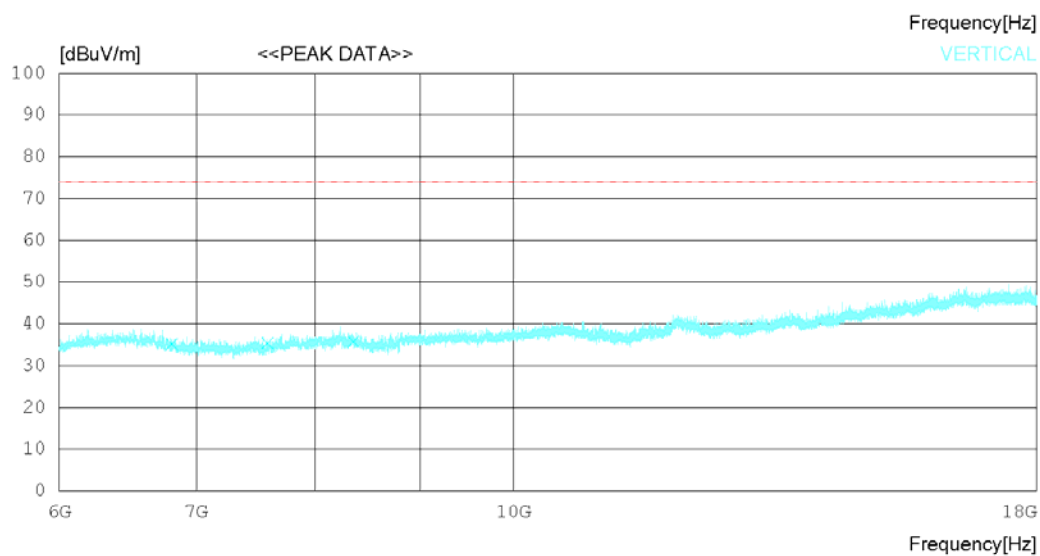
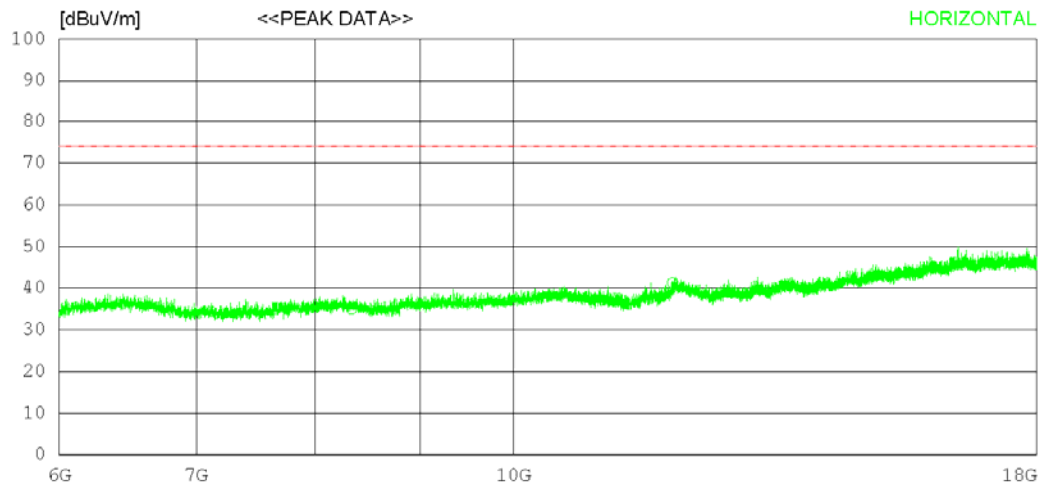
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 44 % R.H.
Test Condition wireless

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition wireless

Memo cresyn

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

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]
----- Horizontal -----										
1	7120.500	30.00	31.43	11.60	38.70	34.33	74.0	39.67	250	180
2	8331.750	28.20	31.57	12.88	37.69	34.96	74.0	39.04	306	225
3	11953.500	30.00	33.41	15.58	37.74	41.25	74.0	32.75	150	77
----- Vertical -----										
4	6810.750	30.90	31.50	11.26	38.53	35.13	74.0	38.87	150	34
5	7582.500	30.30	31.36	11.96	38.23	35.39	74.0	38.61	127	0
6	8353.500	28.90	31.58	12.90	37.68	35.70	74.0	38.3	225	94

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
-	-	Ear-Mic	Cresyn

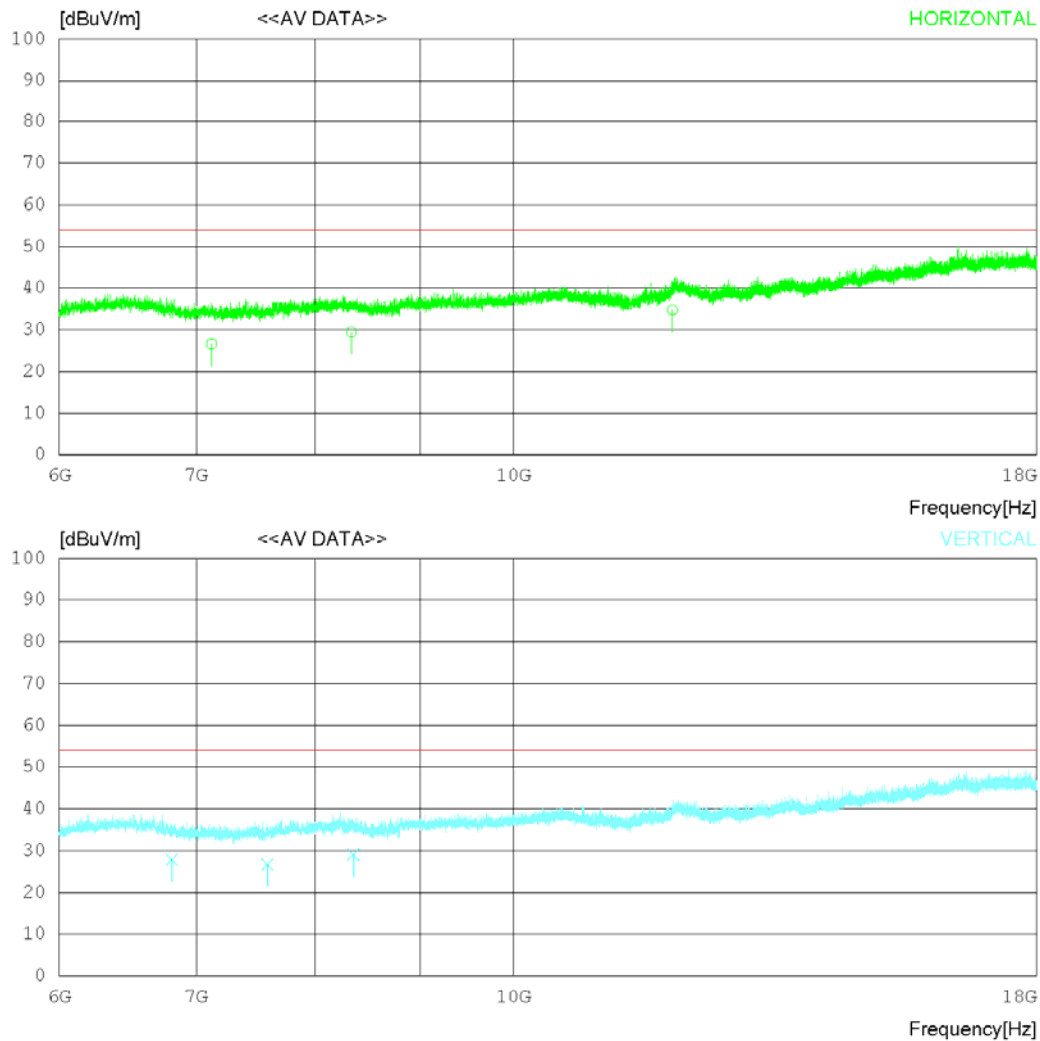
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition wireless

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition wireless

Memo cresyn

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	7120.514	22.30	31.43	11.60	38.70	26.63	54.00	27.37	120	108
2	8331.711	22.70	31.57	12.88	37.69	29.46	54.00	24.54	227	251
3	11953.530	23.50	33.41	15.58	37.74	34.75	54.00	19.25	134	123
----- Vertical -----										
4	6810.724	23.60	31.50	11.26	38.53	27.83	54.00	26.17	120	120
5	7582.411	21.60	31.36	11.96	38.23	26.69	54.00	27.31	223	237
6	8353.511	22.24	31.58	12.90	37.68	29.04	54.00	24.96	312	142

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
-	-	Ear-Mic	Cresyn

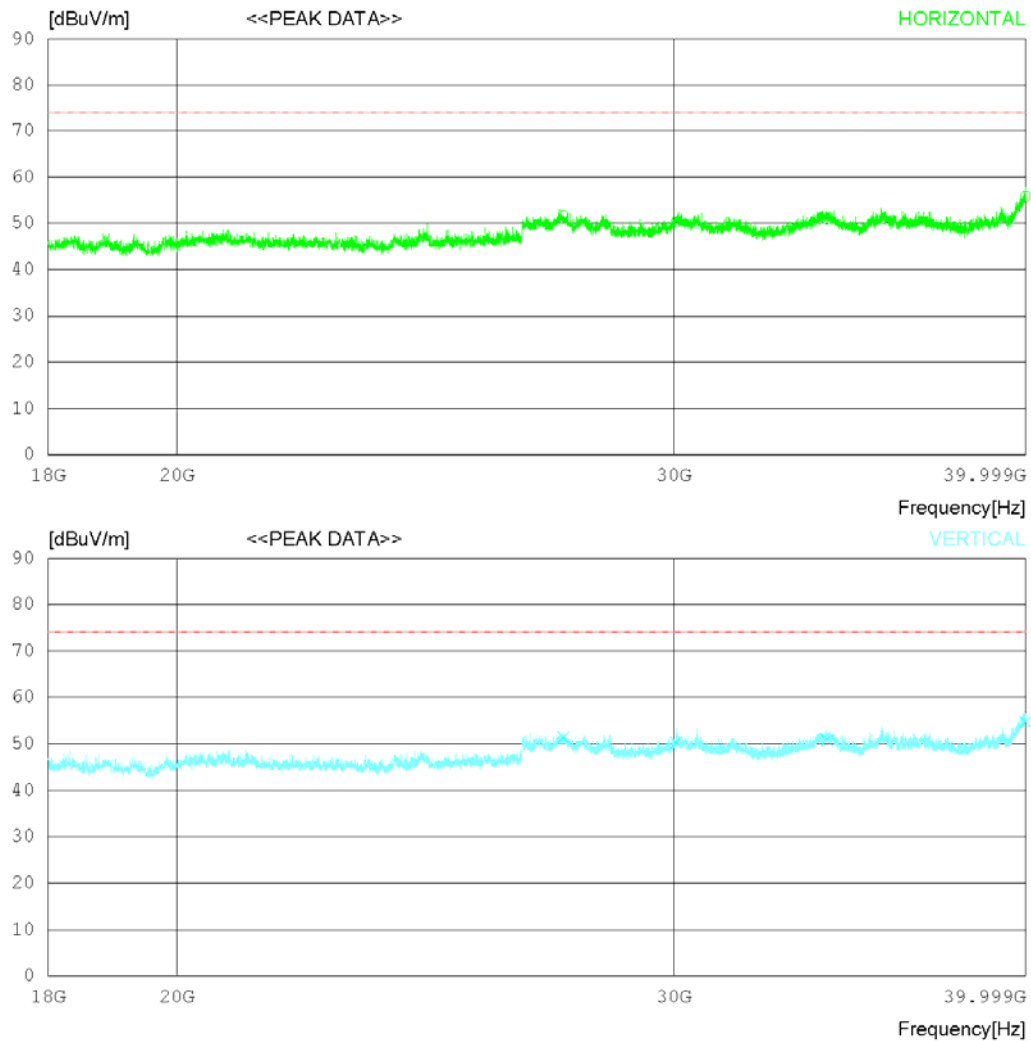
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition wireless

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition wireless

Memo cresyn

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

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]
----- Horizontal -----										
1	27413.25037.20	38.81	21.09	45.43	51.67	74.0	22.33	105	71	
2	30069.75034.60	40.32	21.83	46.50	50.25	74.0	23.75	226	21	
3	34005.00032.00	41.52	24.18	46.71	50.99	74.0	23.01	272	358	
4	39991.75035.00	43.55	23.92	46.65	55.82	74.0	18.18	138	358	
----- Vertical -----										
5	27413.25036.90	38.81	21.09	45.43	51.37	74.0	22.63	320	0	
6	30069.75034.60	40.32	21.83	46.50	50.25	74.0	23.75	325	0	
7	34005.00031.80	41.52	24.18	46.71	50.79	74.0	23.21	127	0	
8	39991.75033.90	43.55	23.92	46.65	54.72	74.0	19.28	200	0	

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
-	-	Ear-Mic	Cresyn

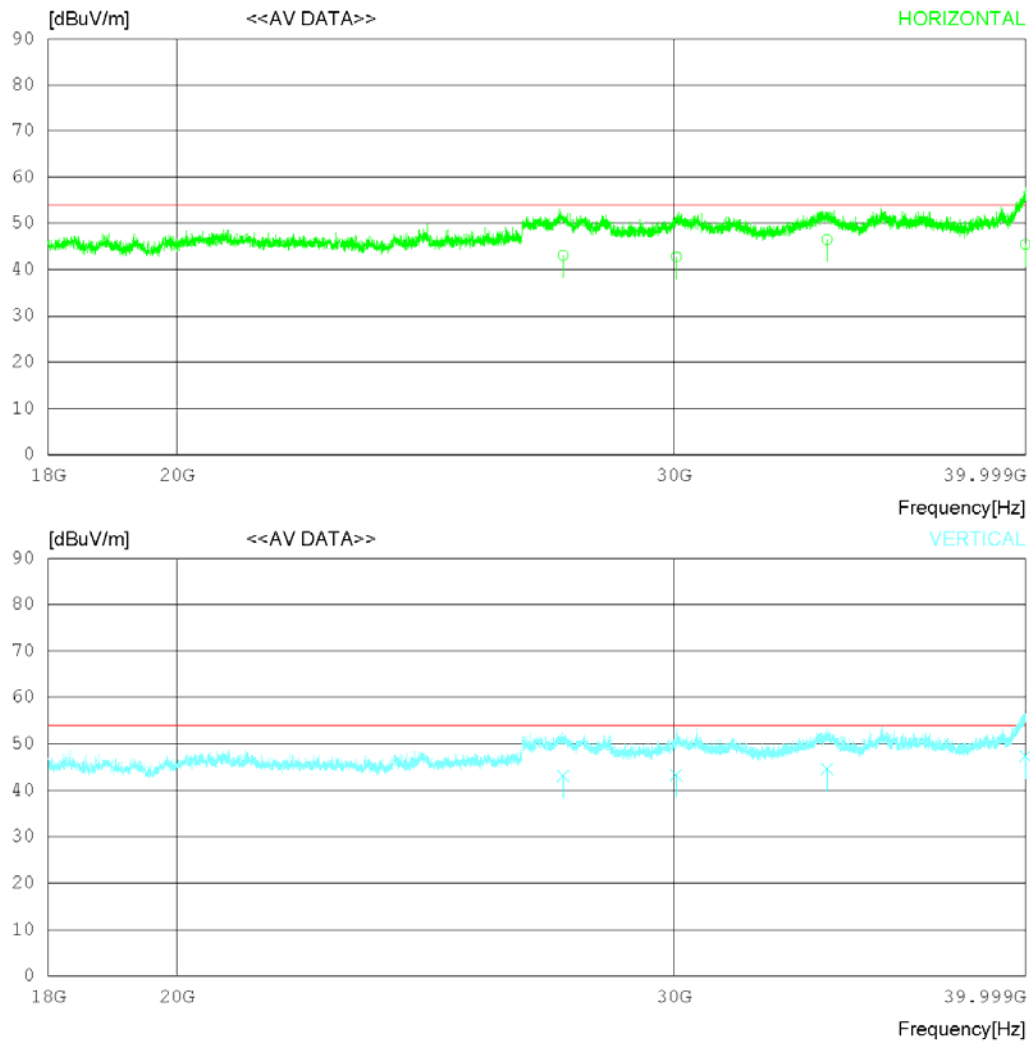
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition wireless

Memo cresyn

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition wireless

Memo cresyn

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	27413.21028.60		38.81	21.09	45.43	43.07	54.00	10.93	120	120
2	30069.74027.10		40.32	21.83	46.50	42.75	54.00	11.25	237	267
3	34005.14027.50		41.52	24.18	46.71	46.49	54.00	7.51	143	112
4	39991.71024.60		43.55	23.92	46.65	45.42	54.00	8.58	211	32
----- Vertical -----										
5	27413.21028.60		38.81	21.09	45.43	43.07	54.00	10.93	120	134
6	30069.71027.60		40.32	21.83	46.50	43.25	54.00	10.75	227	302
7	34005.03025.60		41.52	24.18	46.71	44.59	54.00	9.41	134	114
8	39991.71026.50		43.55	23.92	46.65	47.32	54.00	6.68	279	230

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

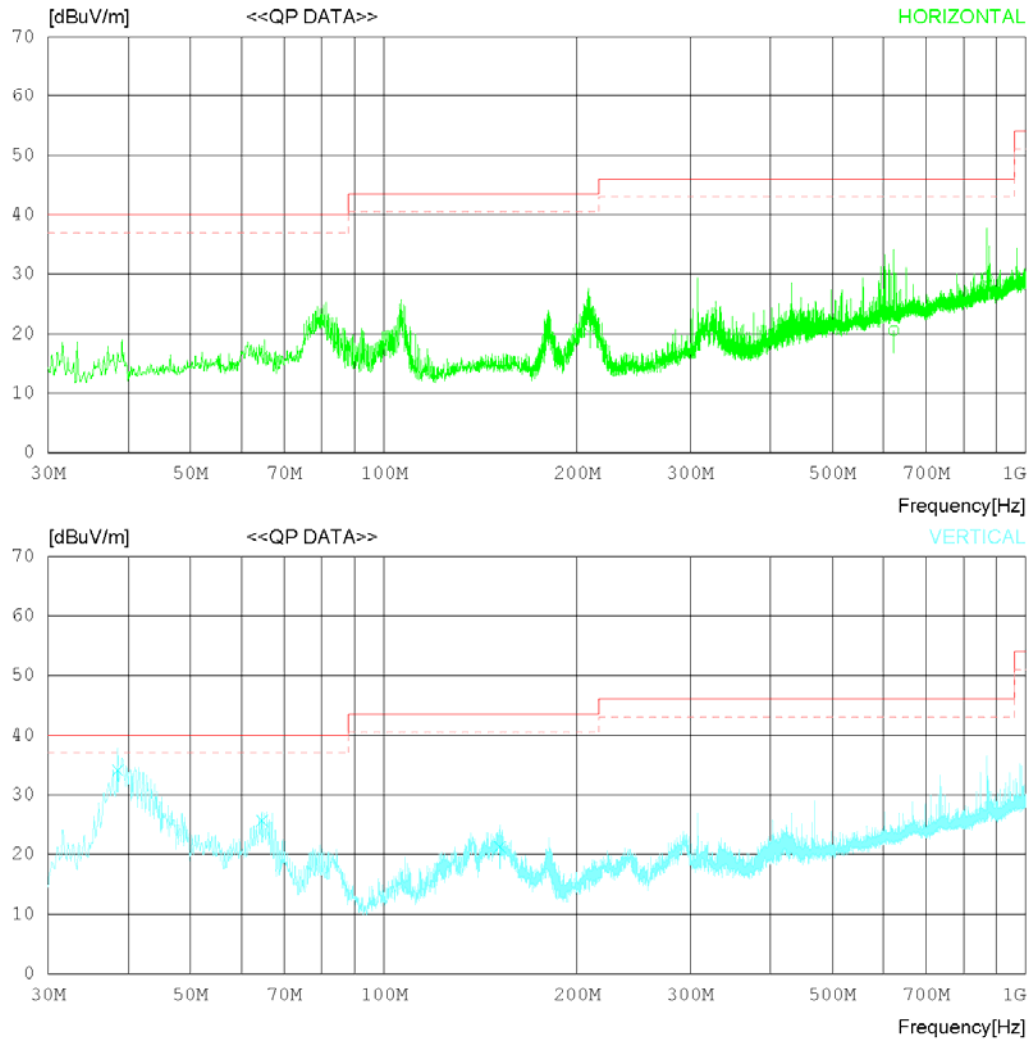
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	209.317	28.40	16.47	1.96	25.63	21.20	43.50	22.30	113	144
2	622.560	17.10	25.78	3.15	25.53	20.50	46.00	25.50	280	173
3	870.086	22.50	29.20	3.55	25.78	29.47	46.00	16.53	131	344
----- Vertical -----										
4	38.522	42.10	16.61	1.19	25.81	34.09	40.00	5.91	120	154
5	64.576	32.60	17.53	1.32	25.77	25.68	40.00	14.32	227	169
6	151.534	26.30	18.90	1.77	25.67	21.30	43.50	22.20	136	126

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
-	-	Ear-Mic	Bujeon

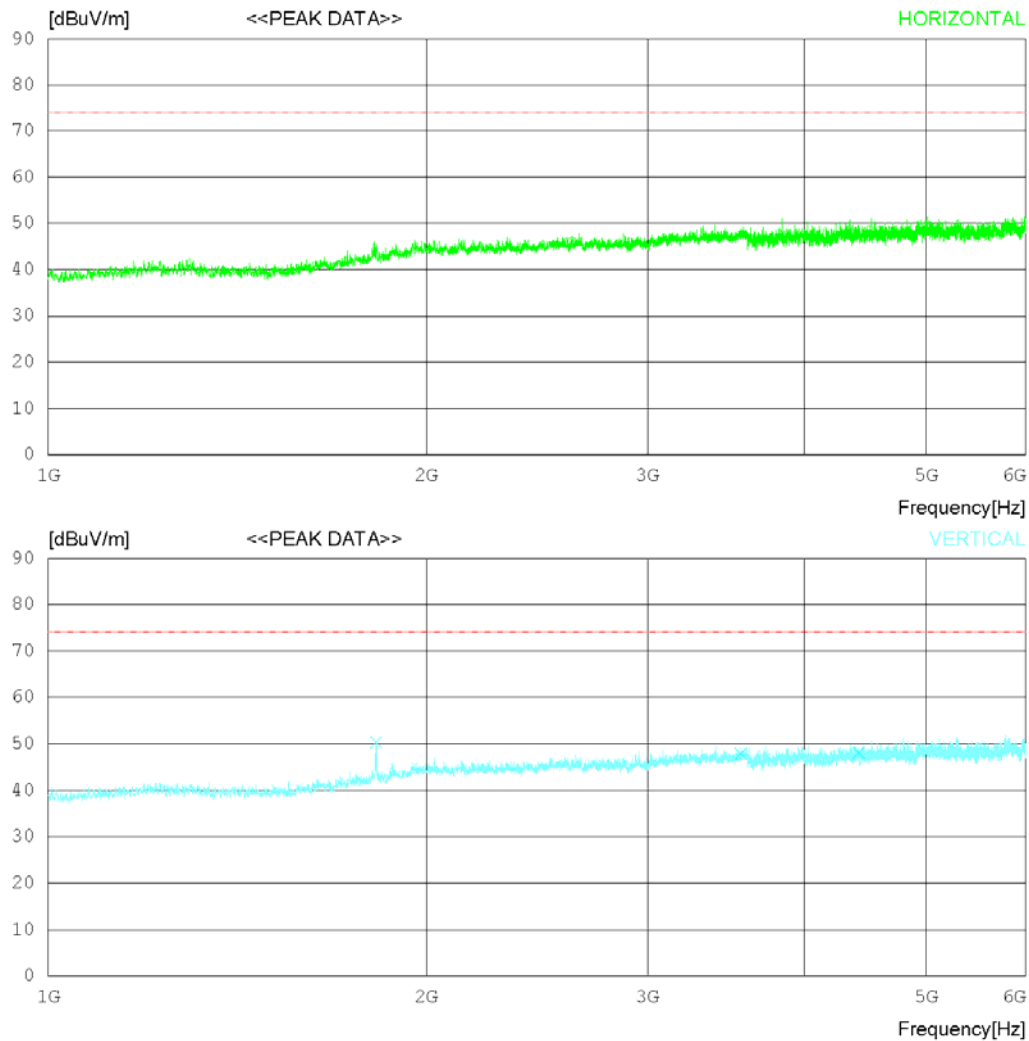
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2613.125	41.00	32.63	6.89	34.70	45.82	74.0	28.18	155	139
2	3703.125	38.70	33.00	8.62	33.95	46.37	74.0	27.63	245	358
3	4517.500	38.90	33.90	9.95	34.22	48.53	74.0	25.47	178	358
----- Vertical -----										
4	1824.375	48.70	30.50	5.69	34.59	50.30	74.0	23.7	125	0
5	3560.000	40.80	33.02	8.25	34.15	47.92	74.0	26.08	256	0
6	4418.750	38.50	33.84	9.84	34.09	48.09	74.0	25.91	308	318

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
-	-	Ear-Mic	Bujeon

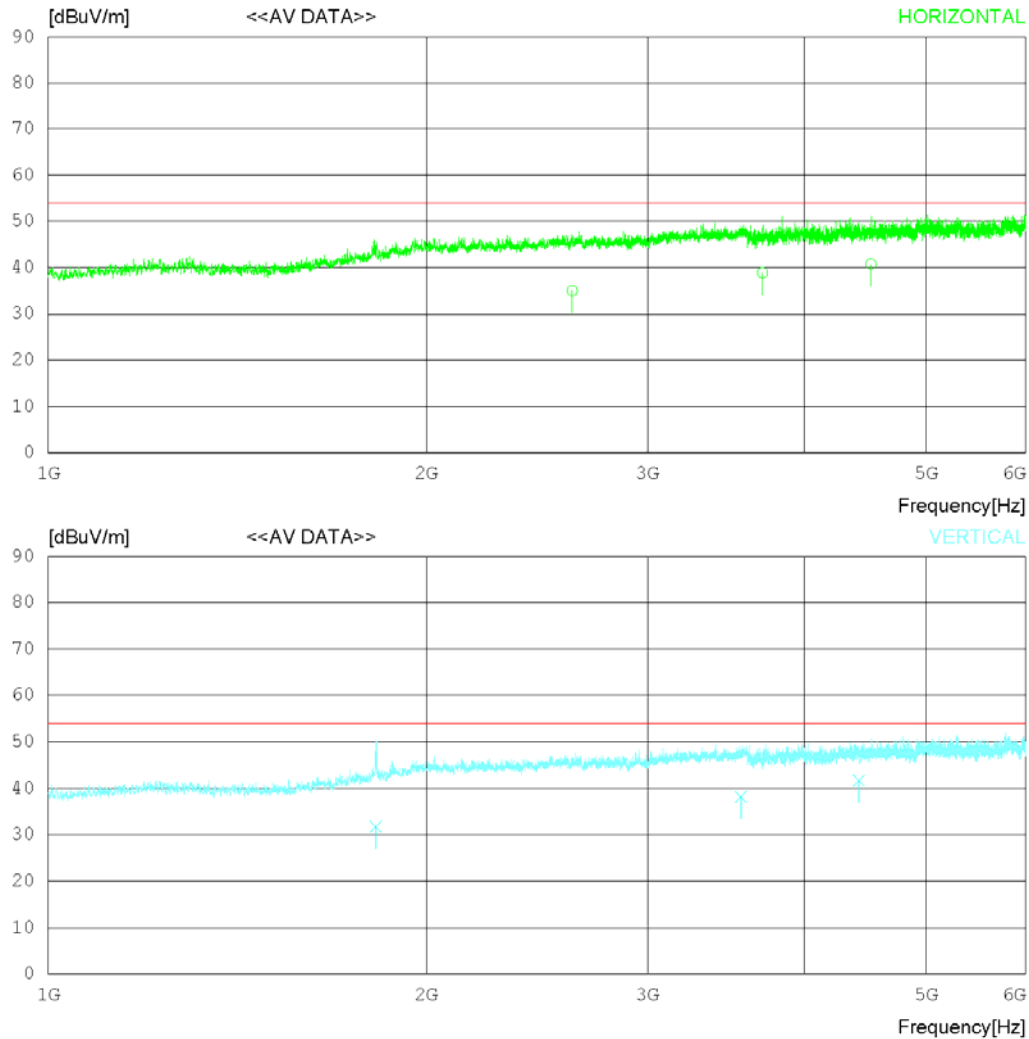
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition wireless charging

Memo bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	2613.143	30.20	32.63	6.89	34.70	35.02	54.00	18.98	120	139
2	3703.177	31.20	33.00	8.62	33.95	38.87	54.00	15.13	277	224
3	4517.521	31.10	33.90	9.95	34.22	40.73	54.00	13.27	312	134
----- Vertical -----										
4	1824.311	30.10	30.50	5.69	34.59	31.70	54.00	22.30	154	120
5	3560.134	31.10	33.02	8.25	34.15	38.22	54.00	15.78	203	234
6	4418.744	32.10	33.84	9.84	34.09	41.69	54.00	12.31	134	17

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
-	-	Ear-Mic	Bujeon

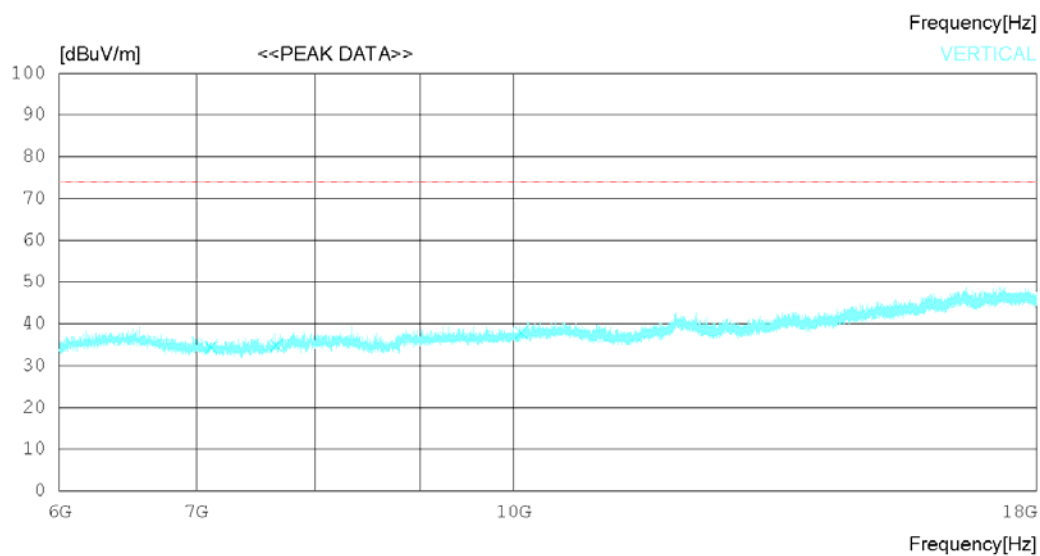
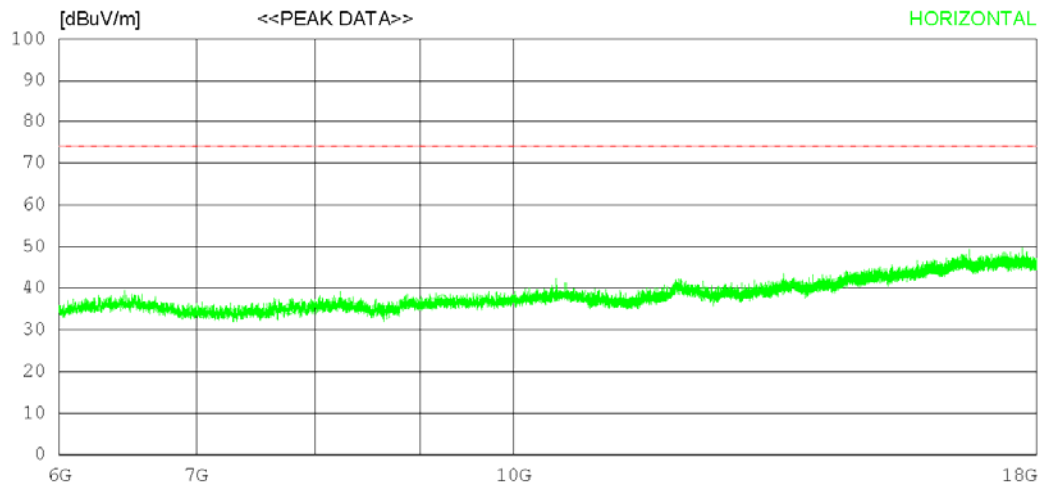
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 44 % R.H.
Test Condition wireless

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition wireless

Memo bujeon

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

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]
----- Horizontal -----										
1	7049.250	29.80	31.44	11.71	38.71	34.24	74.0	39.76	150	0
2	7764.750	29.20	31.34	12.51	38.14	34.91	74.0	39.09	277	0
3	9231.000	30.20	32.20	13.81	39.07	37.14	74.0	36.86	325	217
----- Vertical -----										
4	7116.750	30.10	31.43	11.60	38.70	34.43	74.0	39.57	241	358
5	7658.250	29.50	31.35	12.16	38.18	34.83	74.0	39.17	231	0
6	10083.750	28.90	32.54	14.42	37.95	37.91	74.0	36.09	243	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
-	-	Ear-Mic	Bujeon

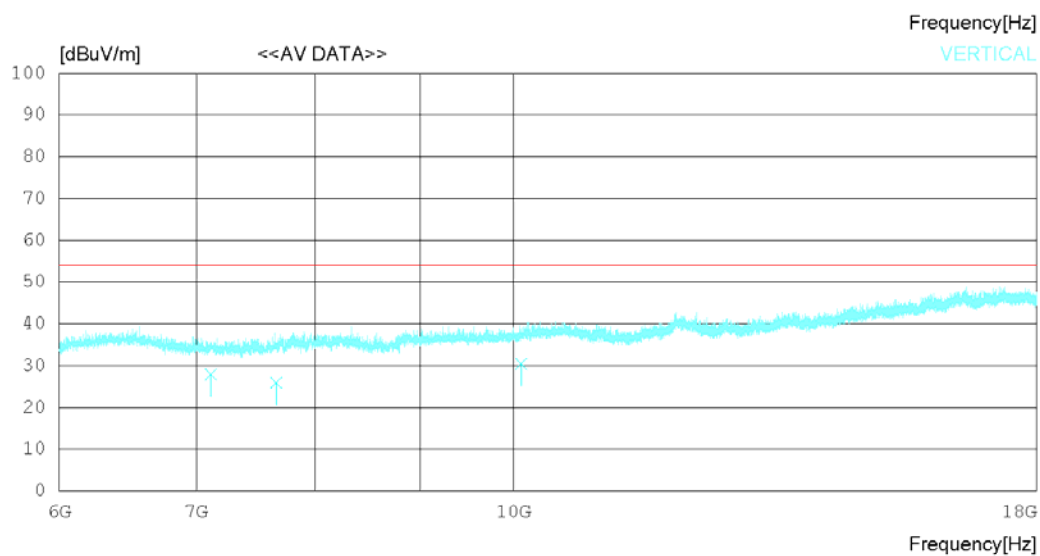
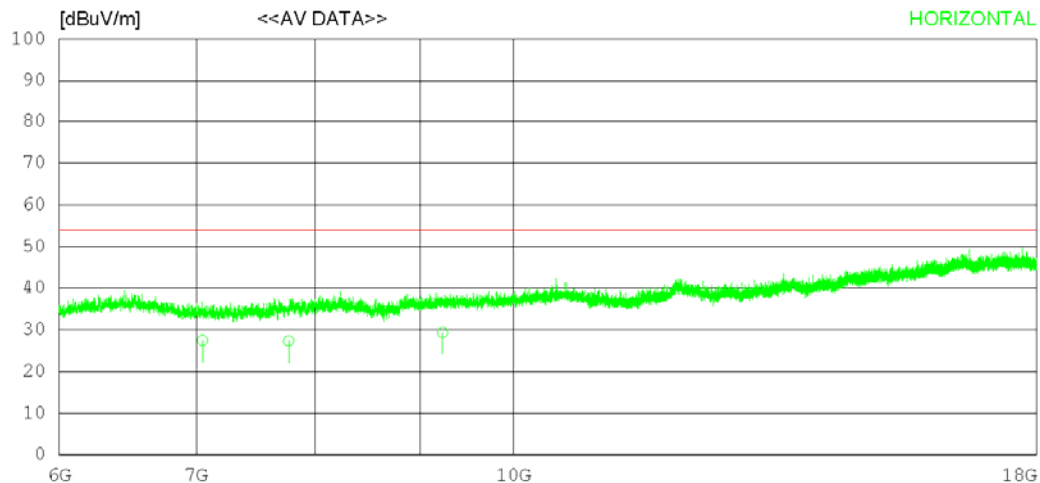
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 44 % R.H.
Test Condition wireless

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition wireless

Memo bujeon

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

No.	FREQ [MHz]	READING CAV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	7049.210	23.00	31.44	11.71	38.71	27.44	54.00	26.56	120	177
2	7764.711	21.60	31.34	12.51	38.14	27.31	54.00	26.69	134	236
3	9231.420	22.40	32.20	13.81	39.07	29.34	54.00	24.66	277	201
----- Vertical -----										
4	7116.124	23.60	31.43	11.61	38.70	27.94	54.00	26.06	120	124
5	7658.222	20.60	31.35	12.16	38.18	25.93	54.00	28.07	127	230
6	10083.210	21.40	32.54	14.42	37.95	30.41	54.00	23.59	208	177

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
-	-	Ear-Mic	Bujeon

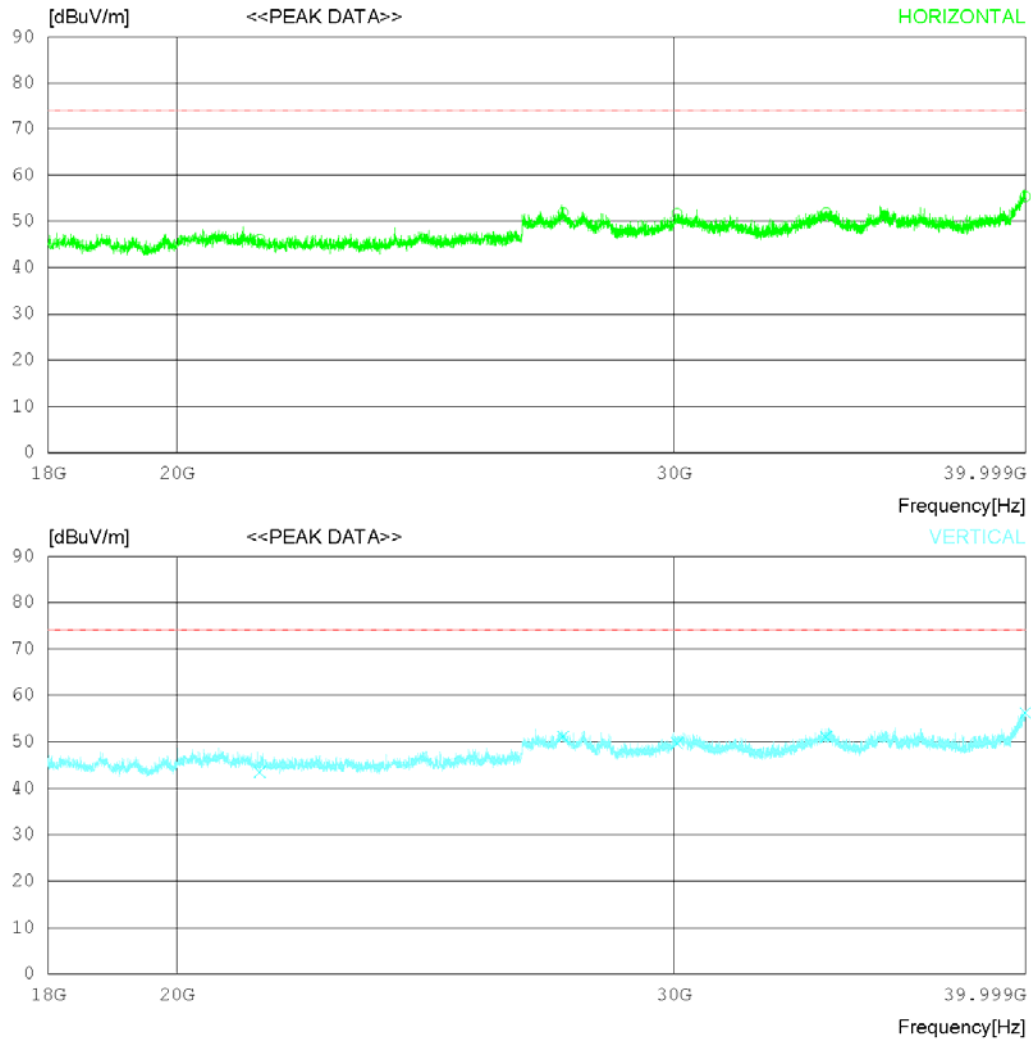
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition wireless

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition wireless

Memo bujeon

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

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]
----- Horizontal -----										
1	21396.25031.40	39.28	19.51	44.12	46.07	74.0	27.93	255	91	
2	27410.50037.40	38.81	21.09	45.43	51.87	74.0	22.13	221	141	
3	30086.25036.00	40.32	21.84	46.50	51.66	74.0	22.34	125	349	
4	33983.00032.90	41.51	24.16	46.71	51.86	74.0	22.14	274	358	
5	39980.75034.60	43.51	23.93	46.71	55.33	74.0	18.67	300	358	
----- Vertical -----										
6	21396.25028.80	39.28	19.51	44.12	43.47	74.0	30.53	178	0	
7	27410.50036.60	38.81	21.09	45.43	51.07	74.0	22.93	226	11	
8	30086.25034.00	40.32	21.84	46.50	49.66	74.0	24.34	178	0	
9	33983.00032.10	41.51	24.16	46.71	51.06	74.0	22.94	321	221	
10	39980.75035.50	43.51	23.93	46.71	56.23	74.0	17.77	243	100	

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
-	-	Ear-Mic	Bujeon

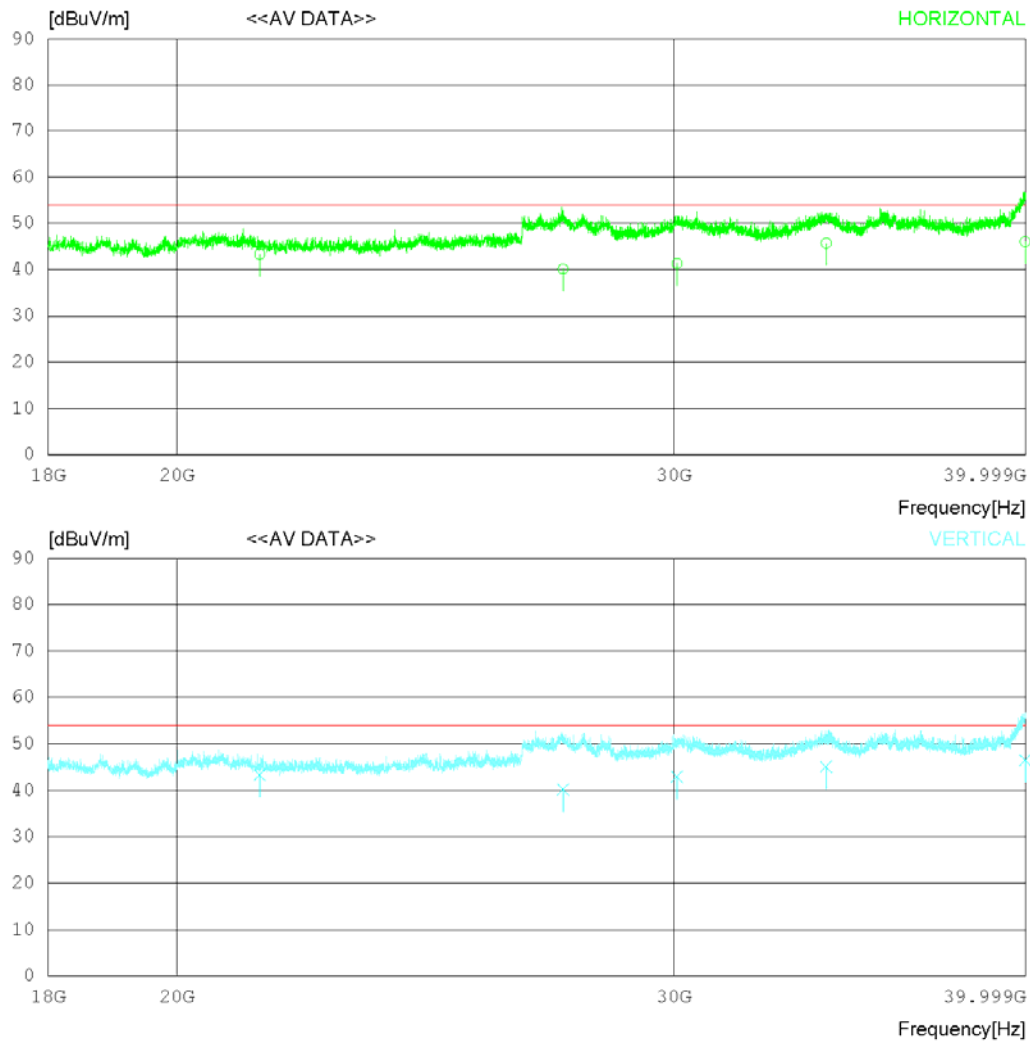
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition wireless

Memo bujeon

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



RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09484
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition wireless

Memo bujeon

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	CAV	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	21396.21028.65		39.28	19.51	44.12	43.32	54.00	10.68	120	123
2	27410.54025.66		38.81	21.09	45.43	40.13	54.00	13.87	234	78
3	30086.21025.67		40.32	21.84	46.50	41.33	54.00	12.67	134	320
4	33983.06026.72		41.51	24.16	46.71	45.68	54.00	8.32	208	321
5	39980.71025.31		43.51	23.93	46.71	46.04	54.00	7.96	134	122
----- Vertical -----										
6	21396.21028.60		39.28	19.51	44.12	43.27	54.00	10.73	120	302
7	27410.54025.67		38.81	21.09	45.43	40.14	54.00	13.86	223	120
8	30086.22027.22		40.32	21.84	46.50	42.88	54.00	11.12	276	231
9	33983.07026.12		41.51	24.16	46.71	45.08	54.00	8.92	301	116
10	39980.71025.77		43.51	23.93	46.71	46.50	54.00	7.50	247	127

Calculation

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

8. Revision History

Date	Description	Revised By	Reviewed By
Dec. 13. 2019	Initial report	JunSeo Park	HyungJun Kim
Feb. 06. 2020	- Added measurement uncertainty. (Refer to page 9 and 22.) - Added Add Model name (LMV600VM, V600VM, LMV600QM5, V600QM5, LMV600QM6, V600QM6)	JunSeo Park	KyoungHwan Bae

-End of test report-