

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. : DREETC1912-0229

2. Client / Applicant

• Name : LG Electronics USA, Inc.

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

3. Use of Report : FCC Verification

4. Product Name / Test Model Name : Mobile Phone / LM-V600TM

5. Test Standard : ANSI C63.4:2014

FCC Part 15 Subpart B

(Other Class B digital devices & 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 : HyungJun Kim  (Signature)

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

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Dec. 13. 2019

DT&C Co., Ltd.

If this report is required to confirmation of authenticity, please contact to report@dtnc.net

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1. General Remarks

This report contains the result of tests performed by :

DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042

<http://www.dtnc.net>

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

2. Test Laboratory

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

Certificate	Nation	Agency	Code	Remark
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-V600TM
Add Model Name	None
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	Luxshare	L1LUC014-CS-H	EAD65830101
Travel Adaptor	1	Sunlin	MCS-P02WR	EAY65749201

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

4. EUT Operations and Test Configurations

4.1 Principle of Configuration Selection

Emission :

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

4.2 EUT Operation Mode

No.	Mode	Description
1	FORNT CAMERA+MP3	EUT is playing MP3 PLAY while recording video with the front camera. (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)
2	REAR CAMERA+RADIO	EUT is receiving FM radio while shooting video with rear camera (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)
3	IDLE	EUT is Tested on standby (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)
4	TOF	ToF Camera in continuous shooting mode (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)

4.3 Test Configuration Mode

No.	Mode	Description
1	FORNT CAMERA+MP3	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones (1.cresyn+luxshare+sunlin /2. bujeon+luxshare+sunlin)
2	REAR CAMERA+RADIO	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)
3	IDLE	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)
4	TOF	The EUT is connected to the Travel Adaptor and is charging.Connected Earphones (1.cresyn+luxshare+sunlin / 2. bujeon+luxshare+sunlin)

4.4 Supported Equipment

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

4.5 EUT In/Output Port

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

4.6 Test Voltage and Frequency

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

5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	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		

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

-Conducted Disturbance

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
6.42386	L1	13.89	Cispr - Average	50.00	15.67

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB μ V/m]	Detector	Limit [dB μ V/m]	Margin [dB]
39978.040	V	26.66	Cispr - Average	54.00	6.63

6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	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	1, 2, 3, 4	
	EUT Operation mode	1, 2, 3, 4	
Limits – Class A			
Frequency (MHz)	Limit dBµV		
	Quasi-Peak	Average	
0.15 to 0.50	79	66	
0.50 to 30	73	60	
Limits – Class B			
Frequency (MHz)	Limit dBµV		
	Quasi-Peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Measurement uncertainty

Expended uncertainty U (95 %, Confidence level, $k = 2$)	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	2020.12.09
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	1	EUT Operation mode	1
Test voltage (V)	120	Test Frequency (Hz)	60
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

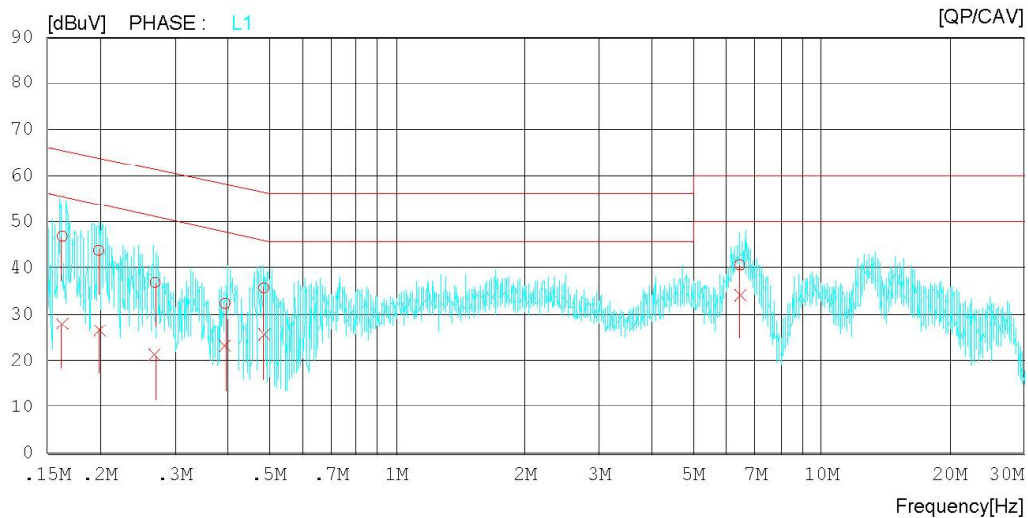
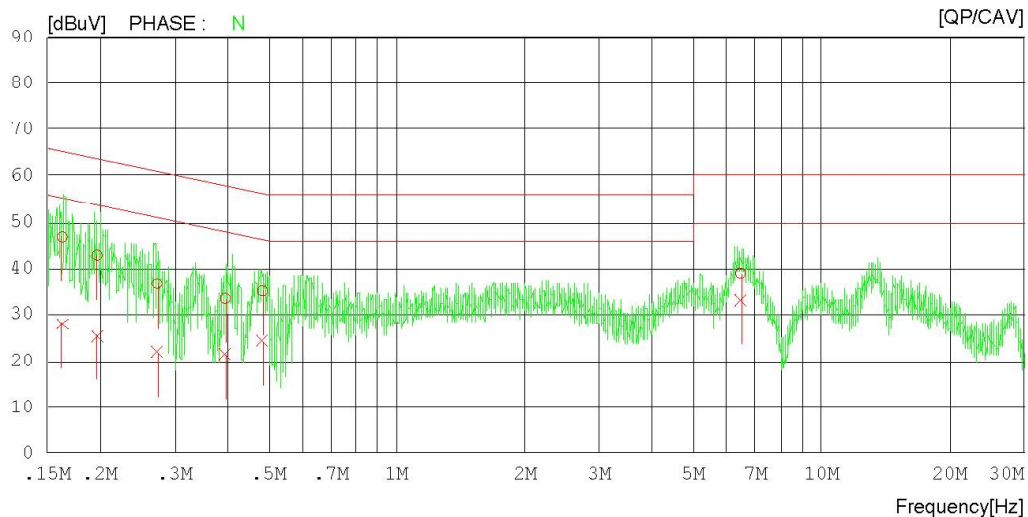
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 'C 42 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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	0.16298	26.80	7.90	20.10	46.90	28.00	65.31	55.31	18.41	27.31	N
2	0.19682	22.76	5.38	20.02	42.78	25.40	63.74	53.74	20.96	28.34	N
3	0.27250	16.82	2.14	19.85	36.67	21.99	61.04	51.04	24.37	29.05	N
4	0.39446	13.27	1.36	20.17	33.44	21.53	57.97	47.97	24.53	26.44	N
5	0.48250	14.80	4.09	20.23	35.03	24.32	56.30	46.30	21.27	21.98	N
6	6.45005	18.67	12.72	20.35	39.02	33.07	60.00	50.00	20.98	16.93	N
7	0.16298	26.81	7.88	20.10	46.91	27.98	65.31	55.31	18.40	27.33	L1
8	0.19850	23.70	6.63	20.01	43.71	26.64	63.67	53.67	19.96	27.03	L1
9	0.26945	17.05	1.31	19.85	36.90	21.16	61.13	51.13	24.23	29.97	L1
10	0.39408	12.29	2.96	20.17	32.46	23.13	57.98	47.98	25.52	24.85	L1
11	0.48617	15.52	5.22	20.23	35.75	25.45	56.23	46.23	20.48	20.78	L1
12	6.42719	20.15	13.88	20.44	40.59	34.32	60.00	50.00	19.41	15.68	L1

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

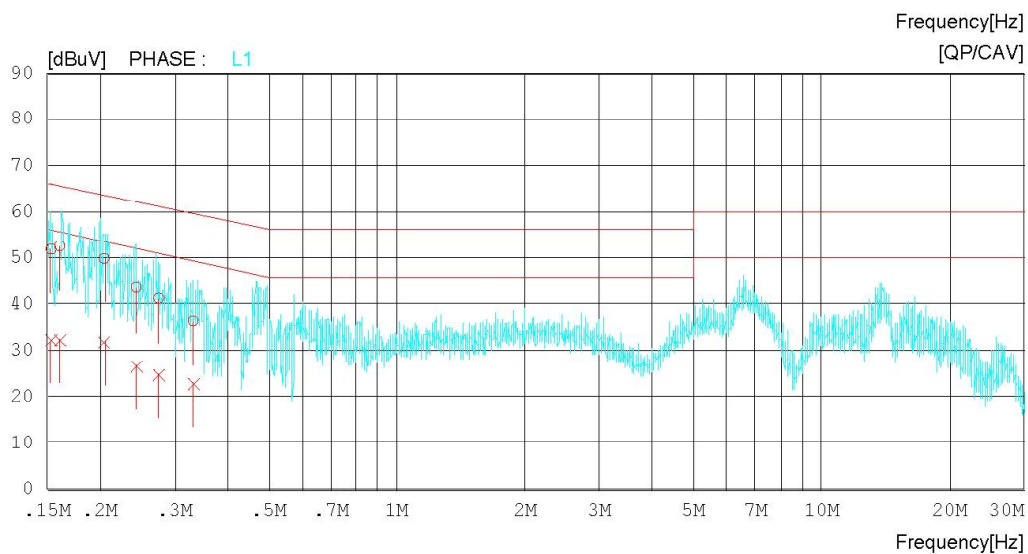
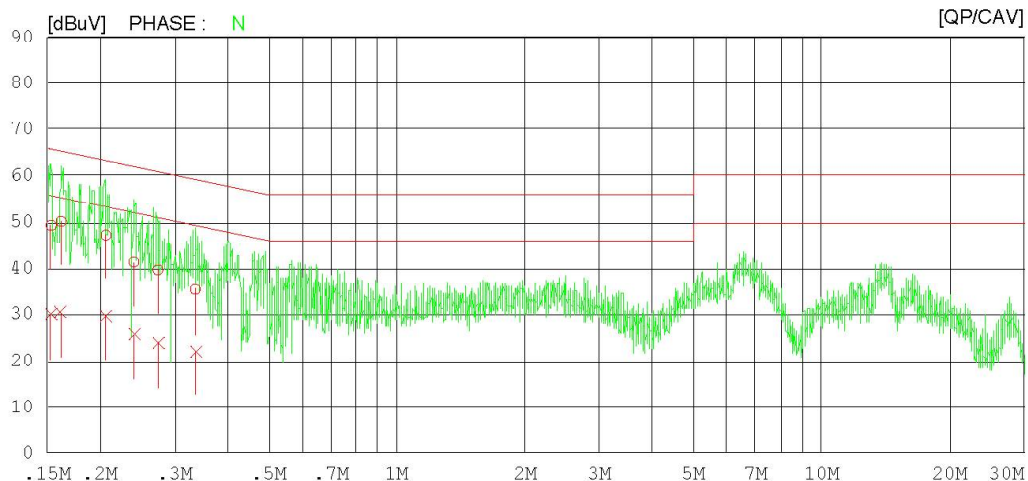
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+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	0.15350	29.39	10.13	19.96	49.35	30.09	65.81	55.81	16.46	25.72	N
2	0.16172	30.10	10.35	20.09	50.19	30.44	65.38	55.38	15.19	24.94	N
3	0.20650	27.23	9.76	19.97	47.20	29.73	63.35	53.35	16.15	23.62	N
4	0.24048	21.53	5.94	19.85	41.38	25.79	62.08	52.08	20.70	26.29	N
5	0.27373	19.84	4.11	19.86	39.70	23.97	61.00	51.00	21.30	27.03	N
6	0.33534	15.32	2.08	20.01	35.33	22.09	59.32	49.32	23.99	27.23	N
7	0.15350	31.87	12.31	19.96	51.83	32.27	65.81	55.81	13.98	23.54	L1
8	0.16050	32.54	12.36	20.07	52.61	32.43	65.44	55.44	12.83	23.01	L1
9	0.20451	29.87	12.05	19.98	49.85	32.03	63.43	53.43	13.58	21.40	L1
10	0.24353	23.70	6.83	19.84	43.54	26.67	61.97	51.97	18.43	25.30	L1
11	0.27481	21.34	4.90	19.86	41.20	24.76	60.97	50.97	19.77	26.21	L1
12	0.33157	16.38	2.95	20.00	36.38	22.95	59.41	49.41	23.03	26.46	L1

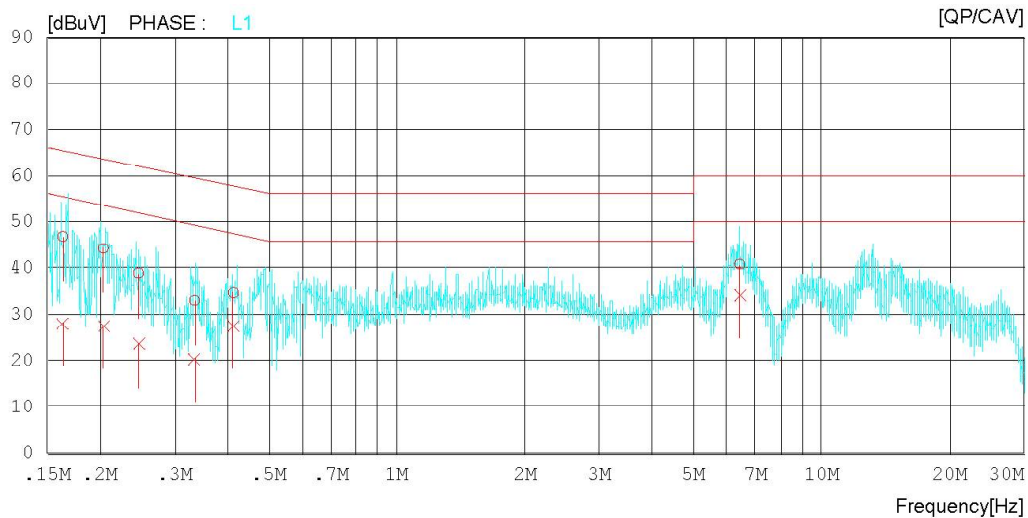
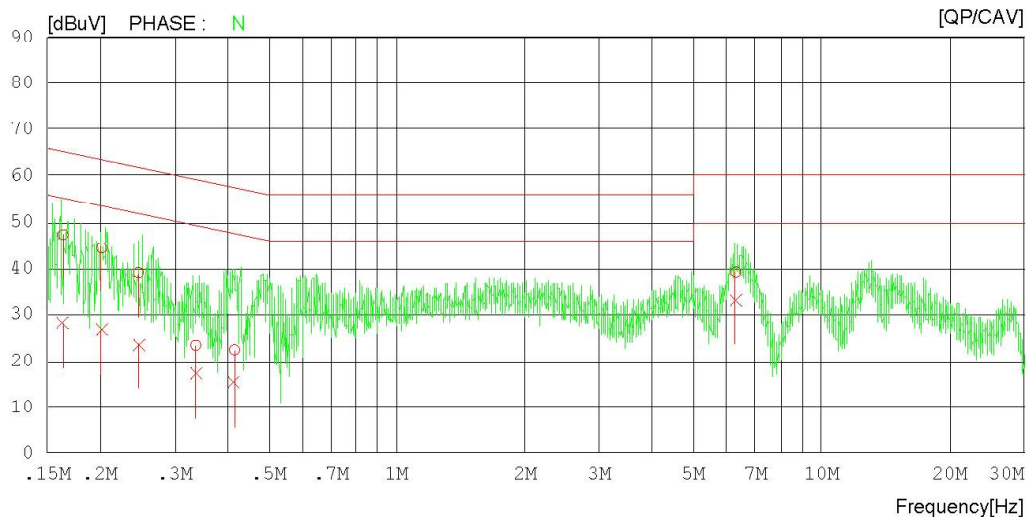
Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	3	EUT Operation mode	3
Test voltage (V)	120	Test Frequency (Hz)	60
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition IDLE
Memo sunlin+luxshare+cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition IDLE

Memo sunlin+luxshare+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	0.16372	27.24	8.06	20.12	47.36	28.18	65.27	55.27	17.91	27.09	N
2	0.20171	24.37	6.78	19.99	44.36	26.77	63.54	53.54	19.18	26.77	N
3	0.24623	19.27	3.73	19.83	39.10	23.56	61.88	51.88	22.78	28.32	N
4	0.33588	3.45	-2.86	20.01	23.46	17.15	59.30	49.30	35.84	32.15	N
5	0.41450	2.34	-4.74	20.19	22.53	15.45	57.56	47.56	35.03	32.11	N
6	6.29246	18.89	12.82	20.33	39.22	33.15	60.00	50.00	20.78	16.85	N
7	0.16350	26.73	7.91	20.11	46.84	28.02	65.28	55.28	18.44	27.26	L1
8	0.20350	24.23	7.56	19.99	44.22	27.55	63.47	53.47	19.25	25.92	L1
9	0.24621	19.05	3.78	19.83	38.88	23.61	61.88	51.88	23.00	28.27	L1
10	0.33377	13.04	0.63	20.01	33.05	20.64	59.36	49.36	26.31	28.72	L1
11	0.41215	14.53	7.36	20.19	34.72	27.55	57.60	47.60	22.88	20.05	L1
12	6.42386	20.32	13.89	20.44	40.76	34.33	60.00	50.00	19.24	15.67	L1

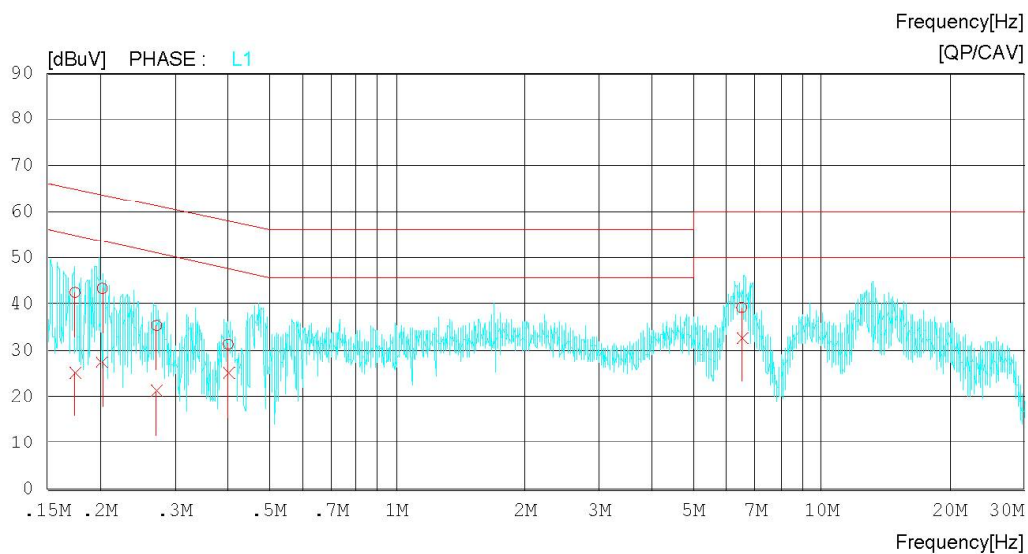
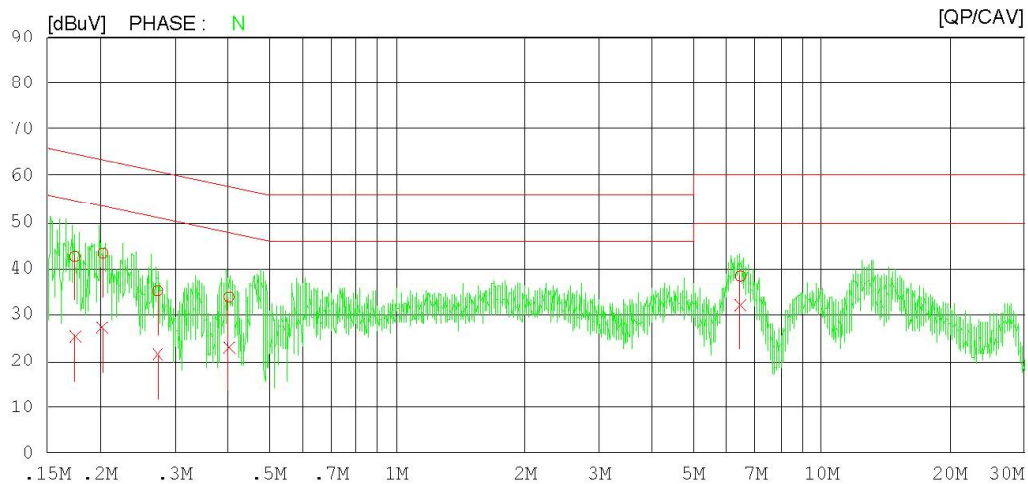
Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	4	EUT Operation mode	4
Test voltage (V)	120	Test Frequency (Hz)	60
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition TOF
Memo sunlin+luxshare+cresyn

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 'C 42 % R.H.
Test Condition TOF

Memo sunlin+luxshare+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	0.17450	22.32	5.21	20.18	42.50	25.39	64.74	54.74	22.24	29.35	N
2	0.20292	23.23	7.22	19.99	43.22	27.21	63.49	53.49	20.27	26.28	N
3	0.27339	15.13	1.74	19.86	34.99	21.60	61.01	51.01	26.02	29.41	N
4	0.40238	13.56	3.06	20.18	33.74	23.24	57.80	47.80	24.06	24.56	N
5	6.44843	18.01	11.74	20.34	38.35	32.08	60.00	50.00	21.65	17.92	N
6	0.17453	22.21	5.15	20.18	42.39	25.33	64.74	54.74	22.35	29.41	L1
7	0.20230	23.29	7.46	19.99	43.28	27.45	63.52	53.52	20.24	26.07	L1
8	0.27181	15.55	1.47	19.85	35.40	21.32	61.06	51.06	25.66	29.74	L1
9	0.40057	11.27	4.94	20.18	31.45	25.12	57.84	47.84	26.39	22.72	L1
10	6.48838	18.79	12.50	20.45	39.24	32.95	60.00	50.00	20.76	17.05	L1

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

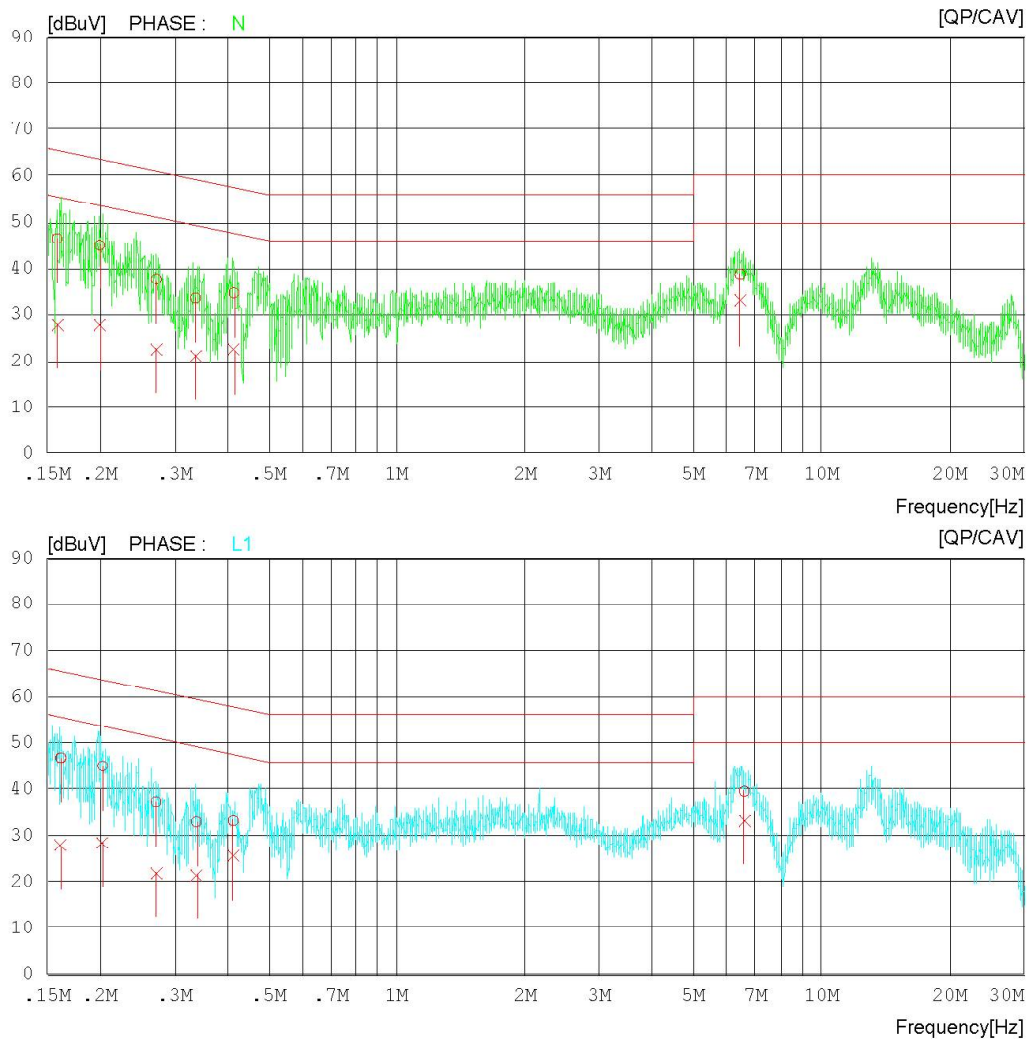
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 'C 42 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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	0.15835	26.47	7.83	20.04	46.51	27.87	65.55	55.55	19.04	27.68	N
2	0.19969	25.03	7.65	20.00	45.03	27.65	63.62	53.62	18.59	25.97	N
3	0.27141	17.82	2.71	19.85	37.67	22.56	61.07	51.07	23.40	28.51	N
4	0.33555	13.47	1.17	20.01	33.48	21.18	59.31	49.31	25.83	28.13	N
5	0.41328	14.45	2.24	20.19	34.64	22.43	57.58	47.58	22.94	25.15	N
6	6.43496	18.40	12.58	20.34	38.74	32.92	60.00	50.00	21.26	17.08	N
7	0.16162	26.72	7.78	20.08	46.80	27.86	65.38	55.38	18.58	27.52	L1
8	0.16166	26.68	7.76	20.08	46.76	27.84	65.38	55.38	18.62	27.54	L1
9	0.20287	24.96	8.47	19.99	44.95	28.46	63.49	53.49	18.54	25.03	L1
10	0.27107	17.36	2.10	19.85	37.21	21.95	61.09	51.09	23.88	29.14	L1
11	0.33694	13.02	1.54	20.01	33.03	21.55	59.28	49.28	26.25	27.73	L1
12	0.41162	13.06	5.35	20.19	33.25	25.54	57.62	47.62	24.37	22.08	L1
13	6.58218	19.08	12.87	20.46	39.54	33.33	60.00	50.00	20.46	16.67	L1

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

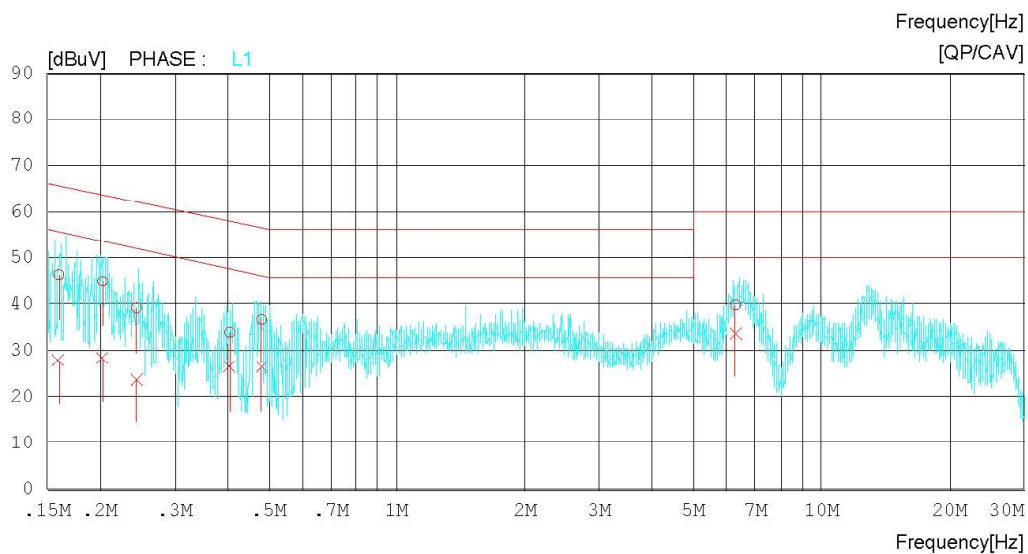
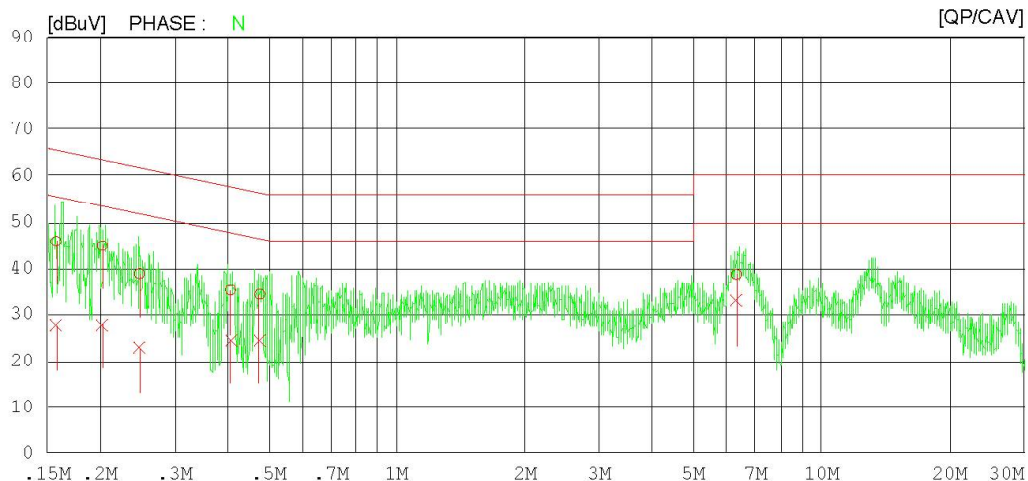
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+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	0.15750	25.84	7.52	20.02	45.86	27.54	65.59	55.59	19.73	28.05	N
2	0.20234	24.90	7.93	19.99	44.89	27.92	63.51	53.51	18.62	25.59	N
3	0.24750	19.04	3.09	19.82	38.86	22.91	61.84	51.84	22.98	28.93	N
4	0.40599	15.06	4.40	20.18	35.24	24.58	57.73	47.73	22.49	23.15	N
5	0.47550	14.10	4.36	20.23	34.33	24.59	56.42	46.42	22.09	21.83	N
6	6.30399	18.39	12.51	20.33	38.72	32.84	60.00	50.00	21.28	17.16	N
7	0.15987	26.30	7.73	20.06	46.36	27.79	65.47	55.47	19.11	27.68	L1
8	0.20274	24.88	8.33	19.99	44.87	28.32	63.50	53.50	18.63	25.18	L1
9	0.24384	19.32	3.91	19.83	39.15	23.74	61.96	51.96	22.81	28.22	L1
10	0.40429	13.77	6.25	20.18	33.95	26.43	57.76	47.76	23.81	21.33	L1
11	0.48050	16.46	6.23	20.23	36.69	26.46	56.33	46.33	19.64	19.87	L1
12	6.28517	19.37	13.28	20.43	39.80	33.71	60.00	50.00	20.20	16.29	L1

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

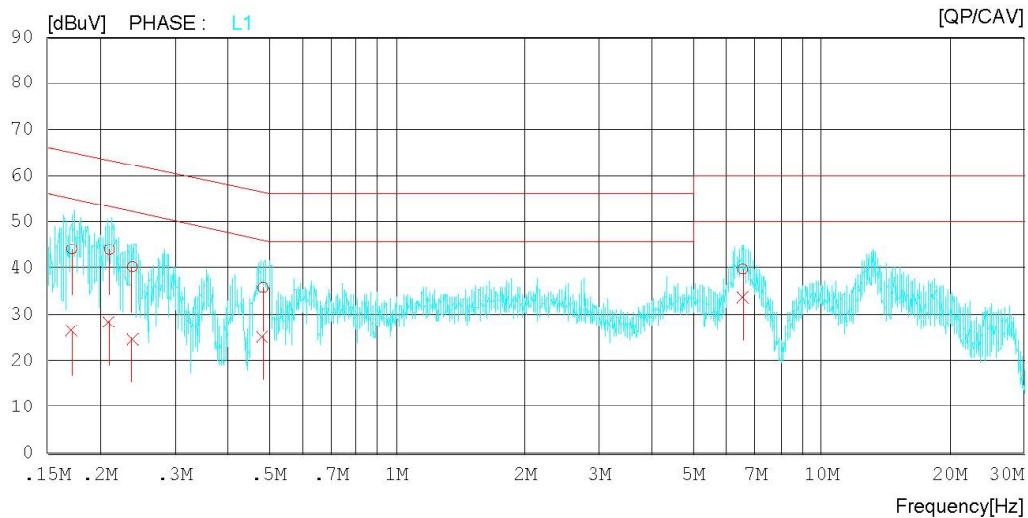
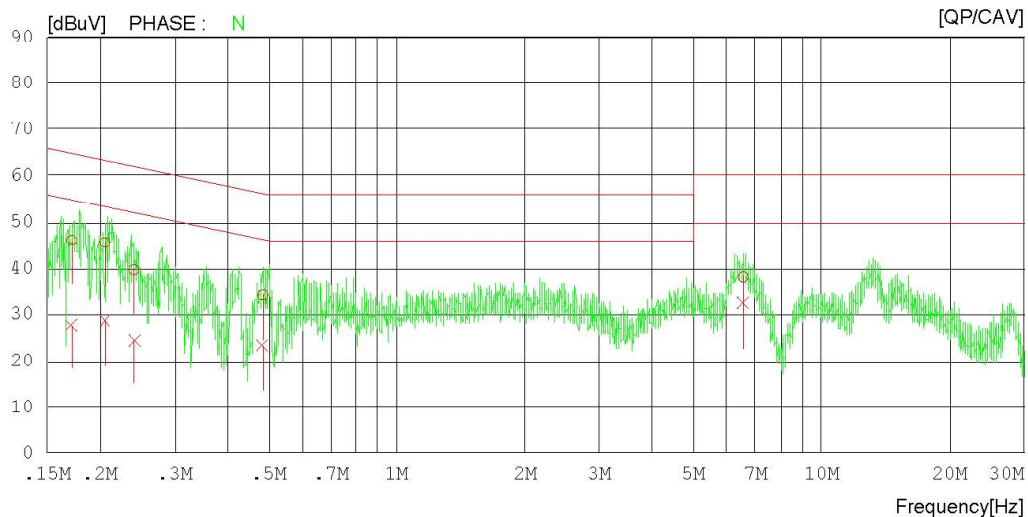
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition IDLE

Memo sunlin+luxshare+bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition IDLE

Memo sunlin+luxshare+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	0.17150	25.88	7.55	20.20	46.08	27.75	64.89	54.89	18.81	27.14	N
2	0.20550	25.63	8.69	19.98	45.61	28.67	63.39	53.39	17.78	24.72	N
3	0.24040	19.88	4.78	19.85	39.73	24.63	62.08	52.08	22.35	27.45	N
4	0.48372	13.94	3.22	20.23	34.17	23.45	56.27	46.27	22.10	22.82	N
5	6.54160	17.86	12.14	20.35	38.21	32.49	60.00	50.00	21.79	17.51	N
6	0.17150	23.85	6.16	20.20	44.05	26.36	64.89	54.89	20.84	28.53	L1
7	0.21050	24.01	8.57	19.96	43.97	28.53	63.19	53.19	19.22	24.66	L1
8	0.23837	20.39	4.94	19.86	40.25	24.80	62.15	52.15	21.90	27.35	L1
9	0.48382	15.60	4.95	20.23	35.83	25.18	56.27	46.27	20.44	21.09	L1
10	6.52655	19.29	13.37	20.45	39.74	33.82	60.00	50.00	20.26	16.18	L1

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

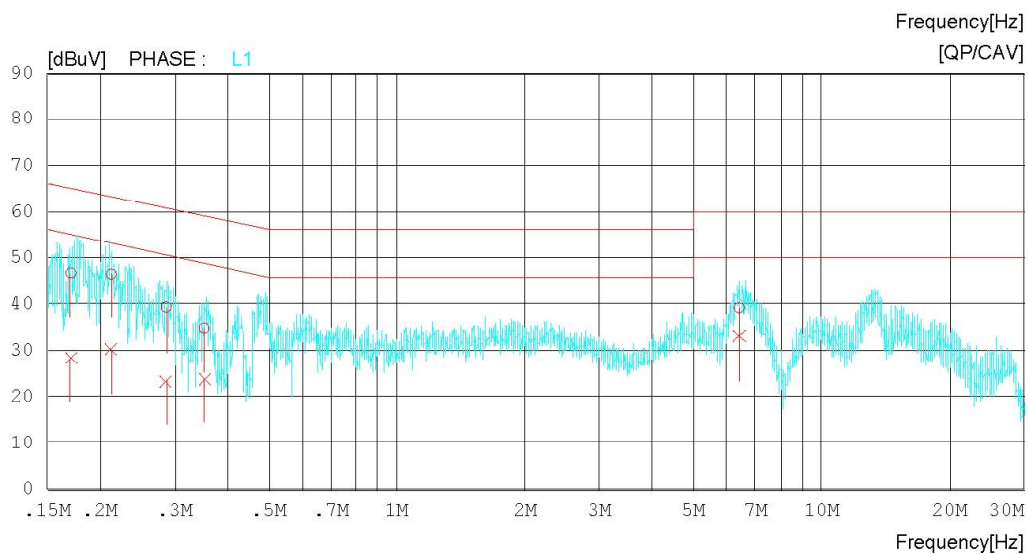
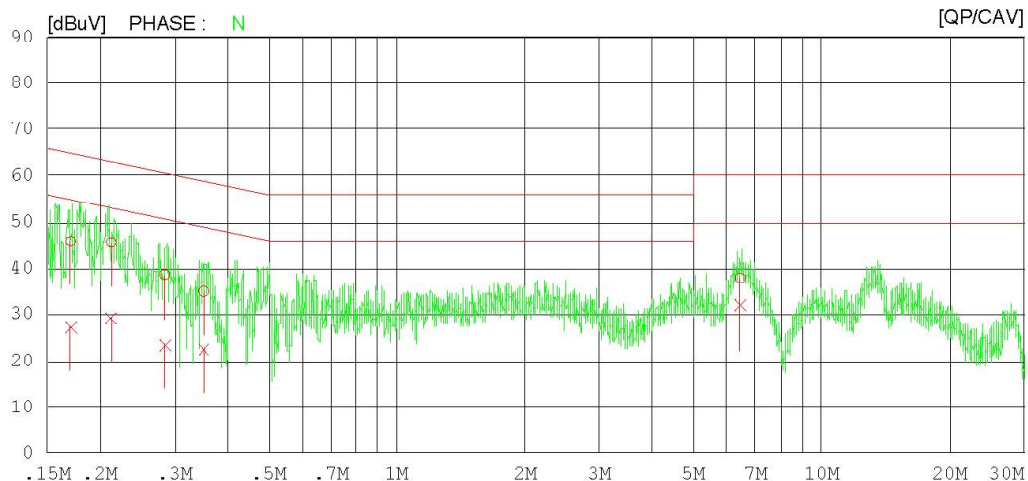
Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition TOF

Memo sunlin+luxshare+bujeon

LIMIT : CISPR32_B QP
CISPR32_B AV



Results of Conducted Emission

DT&C
Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi/Atm 24 °C 42 % R.H.
Test Condition TOF

Memo sunlin+luxshare+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	0.17048	25.64	7.26	20.21	45.85	27.47	64.94	54.94	19.09	27.47	N
2	0.21250	25.70	9.45	19.95	45.65	29.40	63.11	53.11	17.46	23.71	N
3	0.28412	18.76	3.65	19.88	38.64	23.53	60.69	50.69	22.05	27.16	N
4	0.35102	14.89	2.67	20.05	34.94	22.72	58.94	48.94	24.00	26.22	N
5	6.44384	17.55	11.64	20.34	37.89	31.98	60.00	50.00	22.11	18.02	N
6	0.17079	26.51	8.04	20.20	46.71	28.24	64.92	54.92	18.21	26.68	L1
7	0.21250	26.57	10.35	19.95	46.52	30.30	63.11	53.11	16.59	22.81	L1
8	0.28595	19.46	3.51	19.88	39.34	23.39	60.64	50.64	21.30	27.25	L1
9	0.35136	14.78	3.86	20.05	34.83	23.91	58.93	48.93	24.10	25.02	L1
10	6.40881	18.73	12.60	20.44	39.17	33.04	60.00	50.00	20.83	16.96	L1

Calculation

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

7.2 Radiated Disturbance

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 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, 4	
	EUT Operation mode		1, 2, 3, 4	
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(CISPR), Pub. 22 shown as below.				
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)	120	Test Frequency (Hz)	60
Travel Adaptor	Sunlin	Ear-Mic	Cresyn

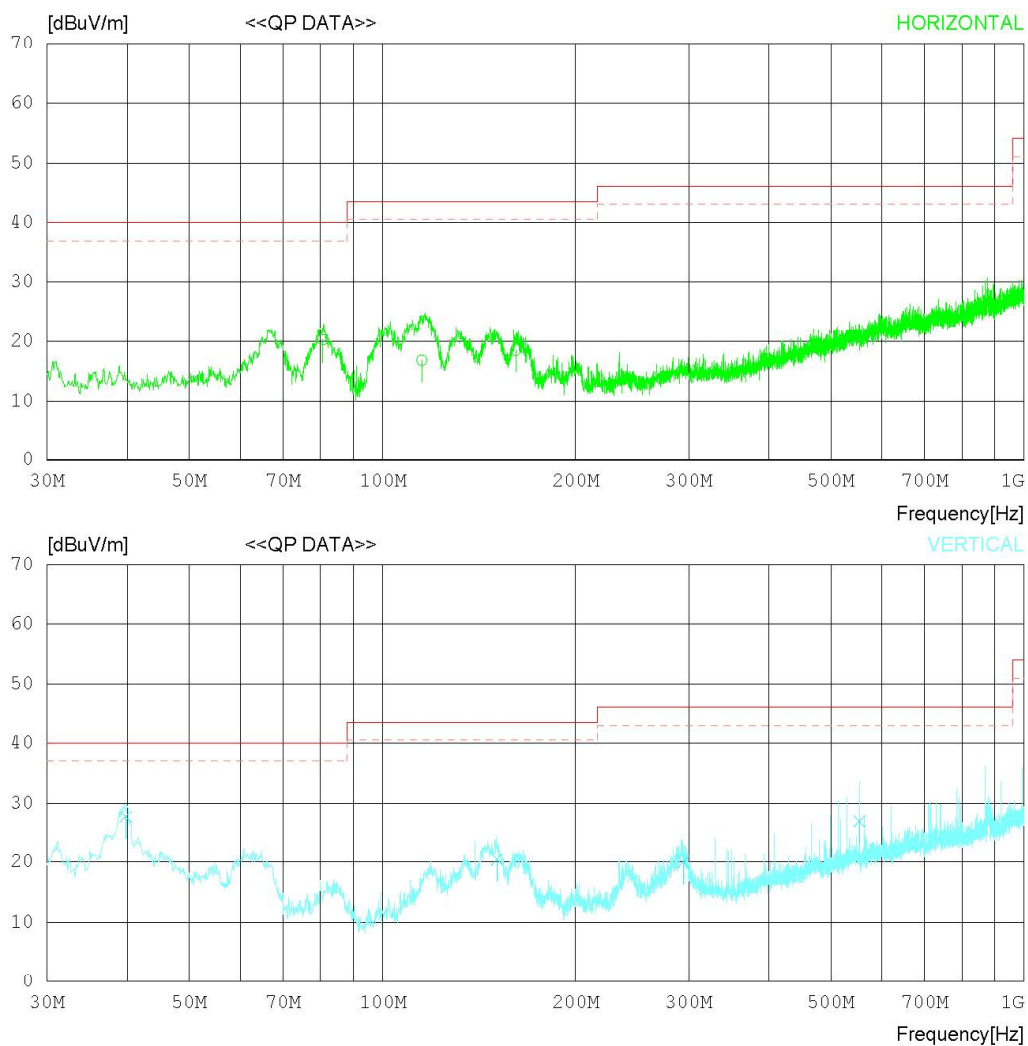
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	80.682	30.20	14.26	1.48	25.74	20.20	40.00	19.80	124	24
2	115.116	24.30	16.66	1.64	25.69	16.91	43.50	26.59	227	121
3	161.311	23.60	18.80	1.78	25.65	18.53	43.50	24.97	311	134
----- Vertical -----										
4	39.821	35.50	16.80	1.20	25.81	27.69	40.00	12.31	131	120
5	151.005	25.50	18.90	1.77	25.67	20.50	43.50	23.00	208	221
6	294.439	24.10	19.50	2.23	25.83	20.00	46.00	26.00	134	134
7	553.432	24.60	24.87	2.89	25.47	26.89	46.00	19.11	244	134

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

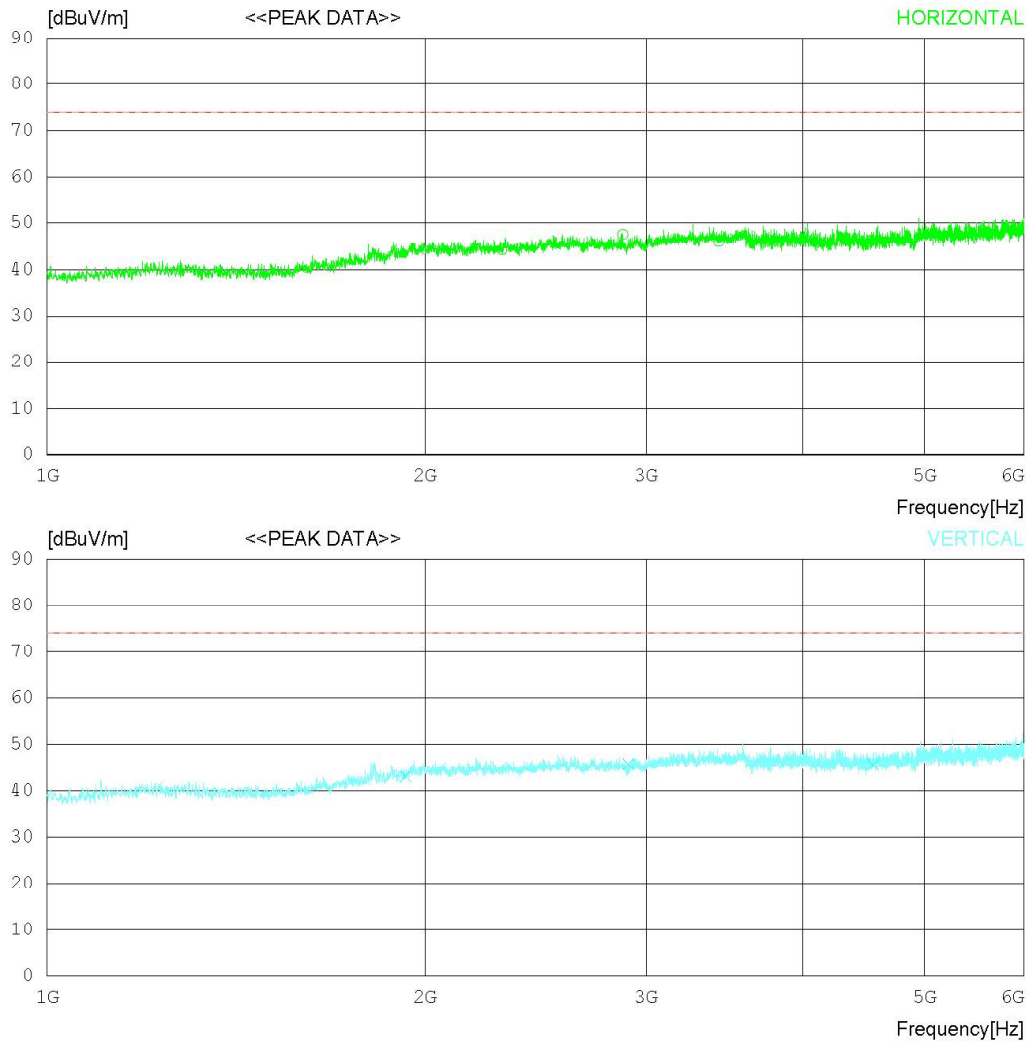
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	2303.125	40.60	31.61	6.54	34.52	44.23	74.0	29.77	243	0
2	2875.000	42.90	32.25	7.25	34.86	47.54	74.0	26.46	123	0
3	3427.500	39.40	32.80	8.10	34.34	45.96	74.0	28.04	208	288
----- Vertical -----										
4	1930.625	40.10	31.35	5.94	34.44	42.95	74.0	31.05	243	6
5	2904.375	41.10	32.22	7.32	34.87	45.77	74.0	28.23	254	258
6	4550.625	36.00	33.90	9.99	34.27	45.62	74.0	28.38	123	124

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

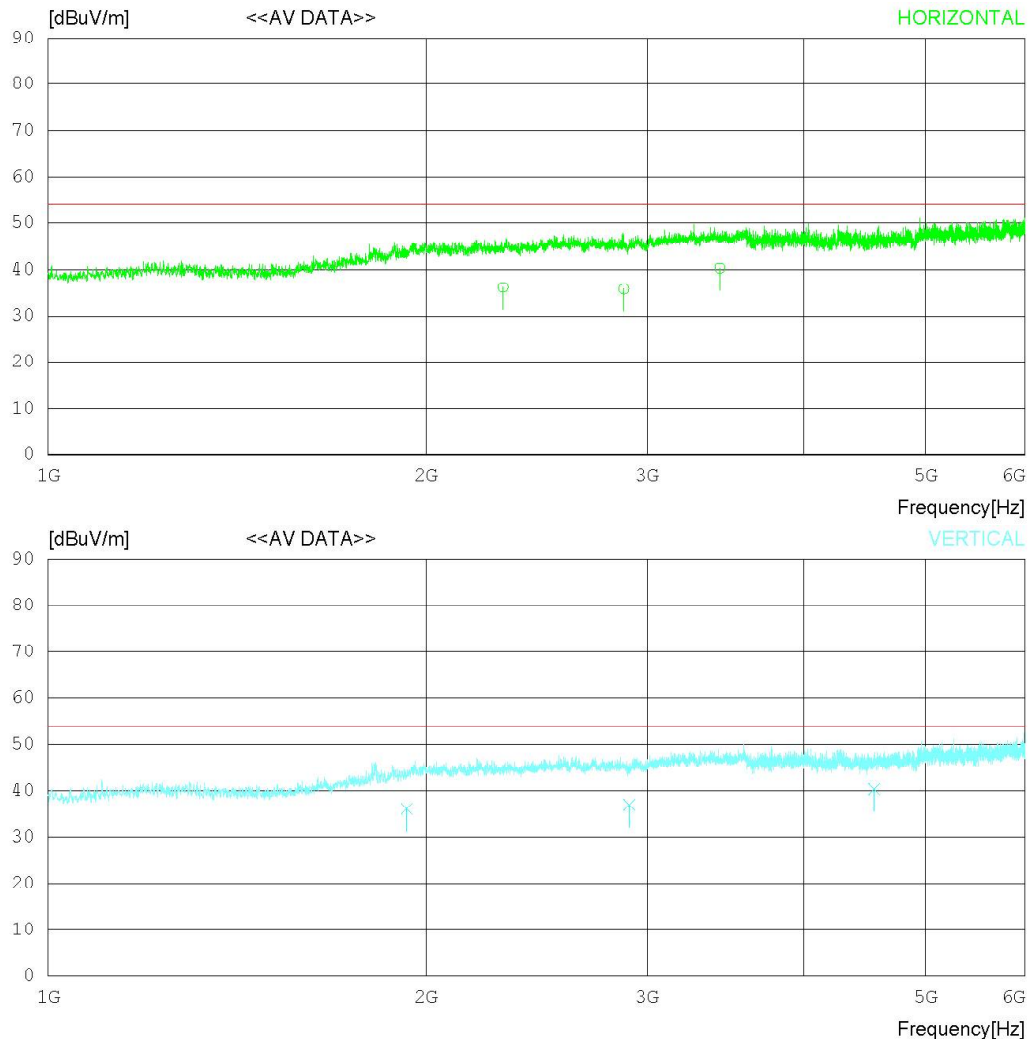
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	2303.465	32.60	31.61	6.54	34.52	36.23	54.00	17.77	203	120
2	2875.077	31.20	32.25	7.25	34.86	35.84	54.00	18.16	138	227
3	3427.541	33.80	32.80	8.10	34.34	40.36	54.00	13.64	124	266
----- Vertical -----										
4	1930.642	33.10	31.35	5.94	34.44	35.95	54.00	18.05	120	124
5	2904.311	32.20	32.22	7.32	34.87	36.87	54.00	17.13	272	122
6	4550.632	30.60	33.90	9.99	34.27	40.22	54.00	13.78	314	308

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

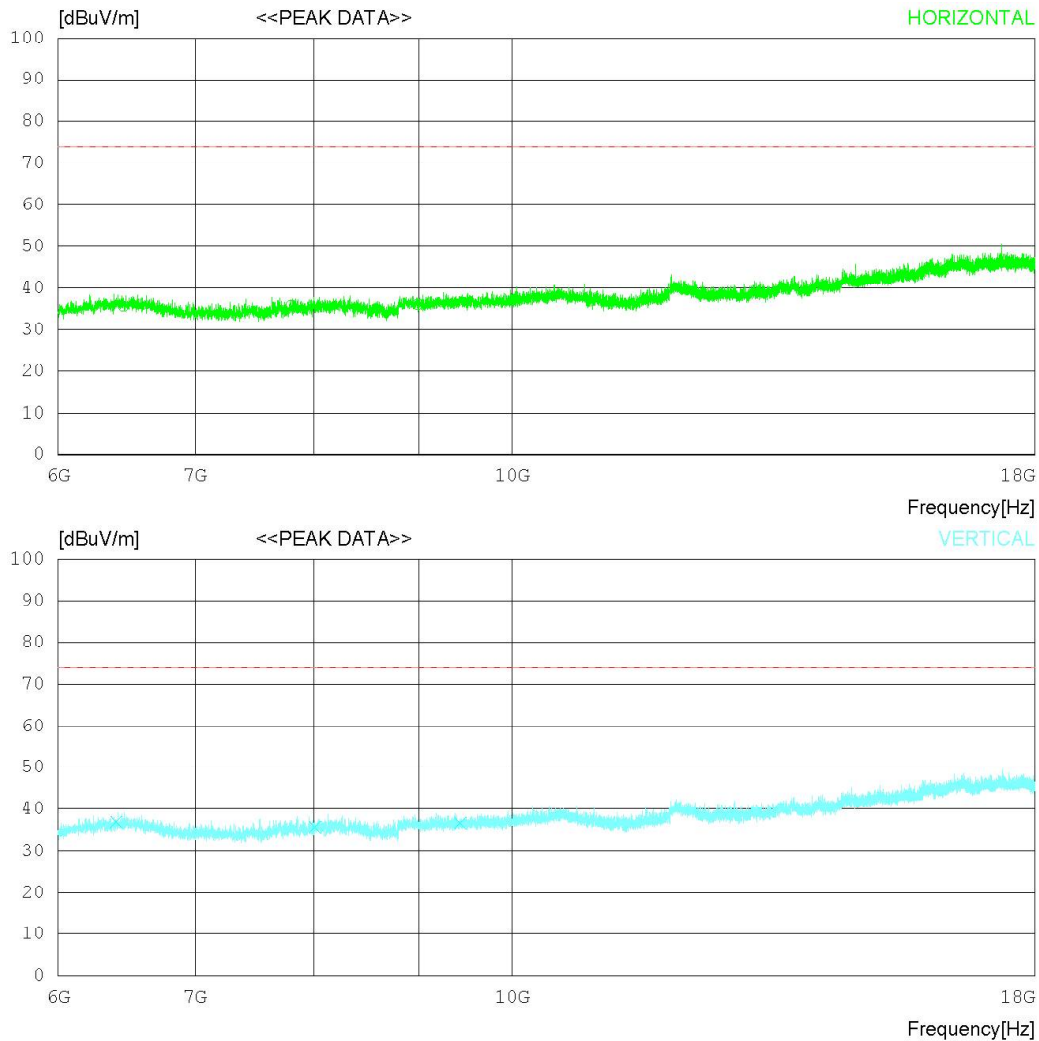
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	6457.500	31.50	31.60	11.19	38.58	35.71	74.0	38.29	243	189
2	7797.750	30.10	31.33	12.62	38.12	35.93	74.0	38.07	241	0
3	8990.250	29.50	32.09	13.39	38.90	36.08	74.0	37.92	123	105
----- Vertical -----										
4	6405.000	32.70	31.61	11.19	38.63	36.87	74.0	37.13	213	135
5	8011.500	30.00	31.31	12.27	37.87	35.71	74.0	38.29	247	319
6	9433.500	29.30	32.30	14.23	39.19	36.64	74.0	37.36	134	0

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

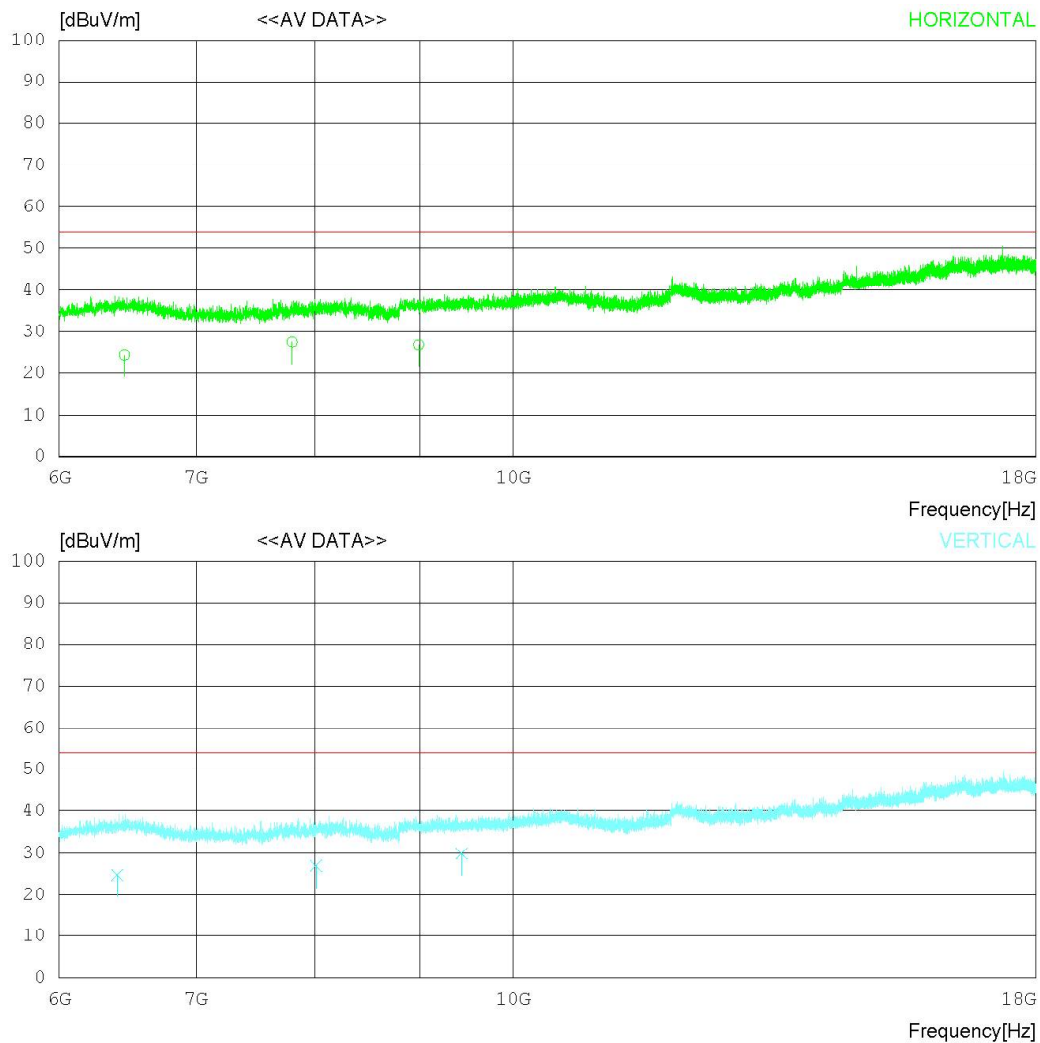
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	6457.542	20.22	31.60	11.19	38.58	24.43	54.00	29.57	120	308
2	7797.711	21.66	31.33	12.62	38.12	27.49	54.00	26.51	134	72
3	8990.212	20.25	32.09	13.39	38.90	26.83	54.00	27.17	334	113
----- Vertical -----										
4	6405.024	20.60	31.61	11.19	38.63	24.77	54.00	29.23	120	124
5	8011.531	21.20	31.31	12.27	37.87	26.91	54.00	27.09	273	183
6	9433.544	22.60	32.30	14.23	39.19	29.94	54.00	24.06	134	208

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

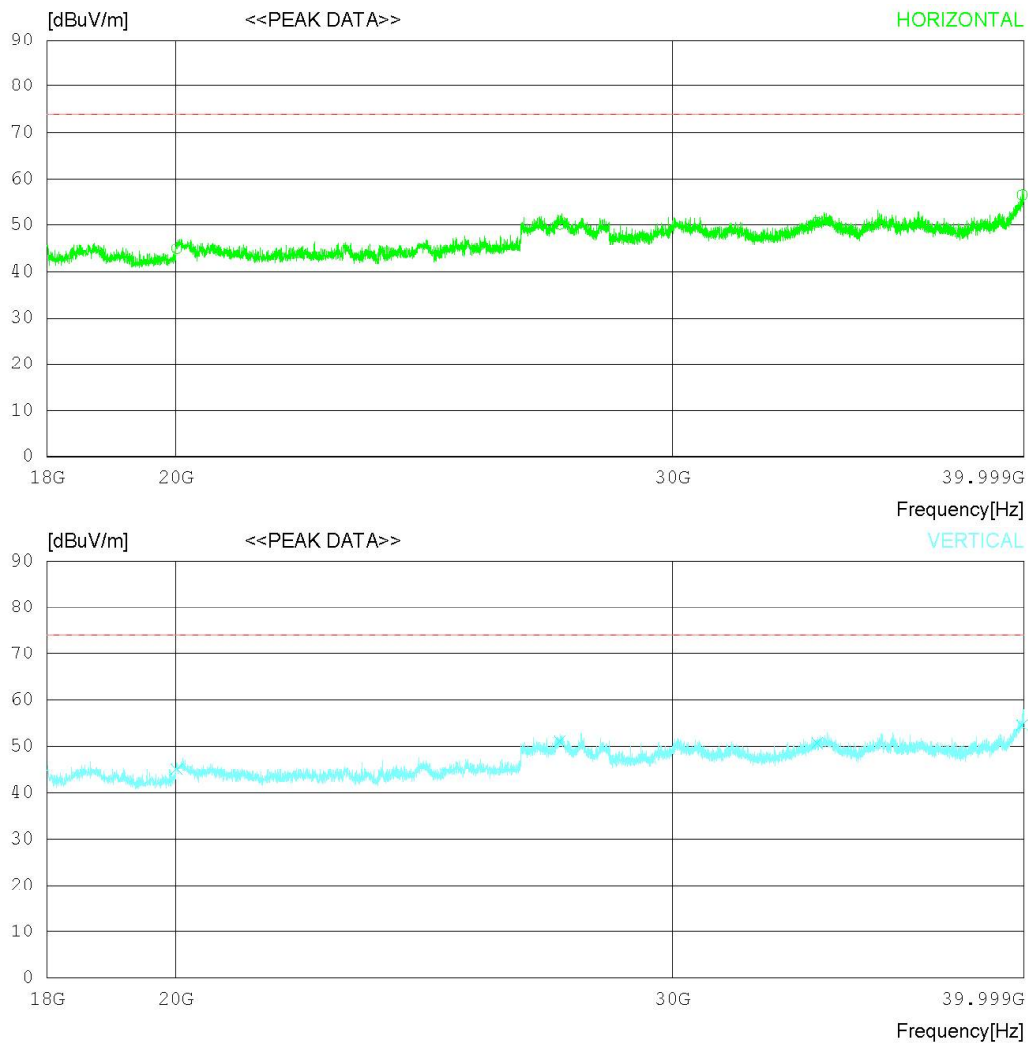
RADIATED EMISSION

Date 2019-12-11

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-11

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	20010.25031.10	39.65	19.27	45.18	44.84	74.0	29.16	231	358	
2	27369.25035.70	38.79	21.08	45.40	50.17	74.0	23.83	234	299	
3	33779.50032.20	41.21	23.97	46.83	50.55	74.0	23.45	172	358	
4	39936.75036.20	43.34	23.98	46.95	56.57	74.0	17.43	166	205	
----- Vertical -----										
5	20010.25031.30	39.65	19.27	45.18	45.04	74.0	28.96	123	0	
6	27369.25036.60	38.79	21.08	45.40	51.07	74.0	22.93	302	0	
7	33779.50032.30	41.21	23.97	46.83	50.65	74.0	23.35	278	89	
8	39936.75034.30	43.34	23.98	46.95	54.67	74.0	19.33	122	0	

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

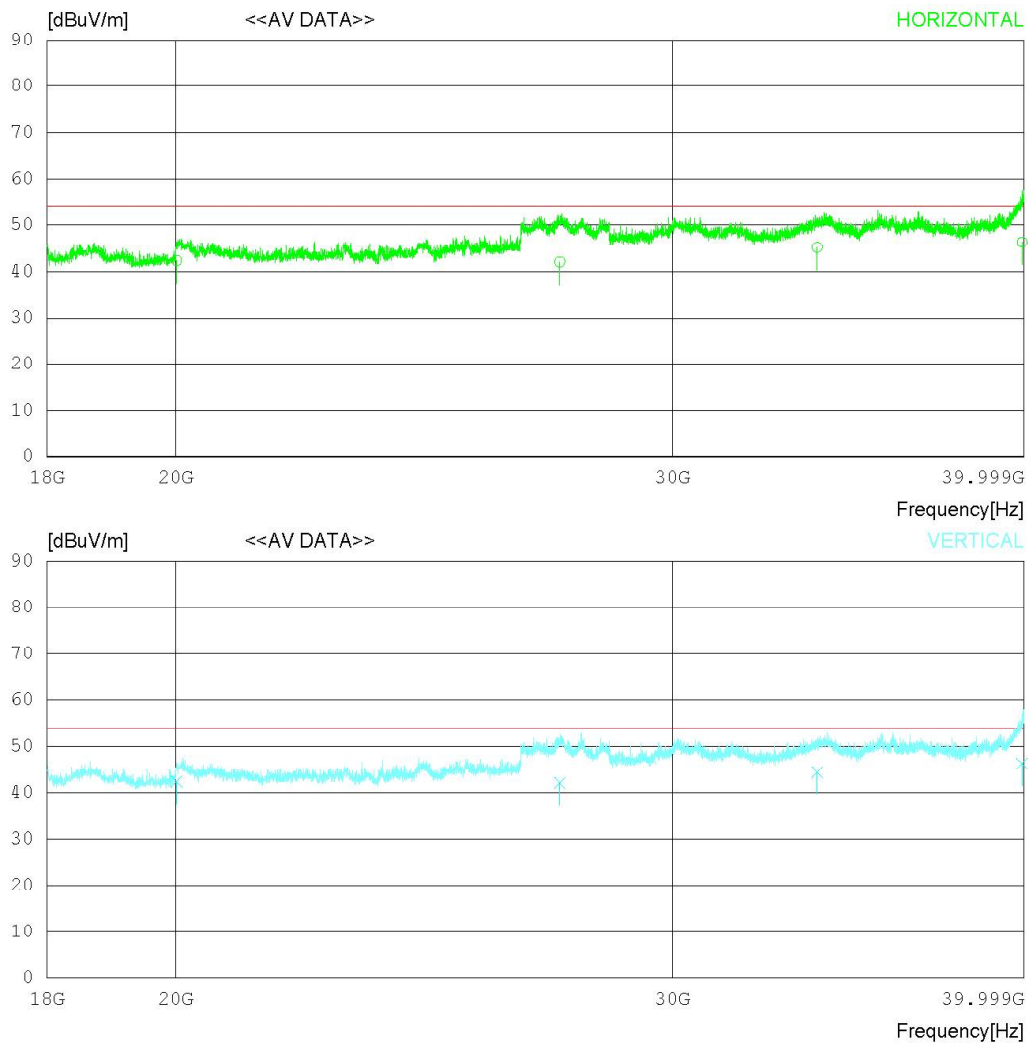
RADIATED EMISSION

Date 2019-12-11

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-11

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23°C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	20010.21028.60		39.65	19.27	45.18	42.34	54.00	11.66	120	164
2	27369.42027.60		38.79	21.08	45.40	42.07	54.00	11.93	234	193
3	33779.51026.80		41.21	23.97	46.83	45.15	54.00	8.85	149	341
4	39936.13025.90		43.34	23.98	46.96	46.26	54.00	7.74	227	211
----- Vertical -----										
5	20010.42028.60		39.65	19.27	45.18	42.34	54.00	11.66	120	120
6	27369.27027.60		38.79	21.08	45.40	42.07	54.00	11.93	233	308
7	33779.56026.11		41.21	23.97	46.83	44.46	54.00	9.54	127	143
8	39936.11025.92		43.34	23.98	46.96	46.28	54.00	7.72	277	78

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

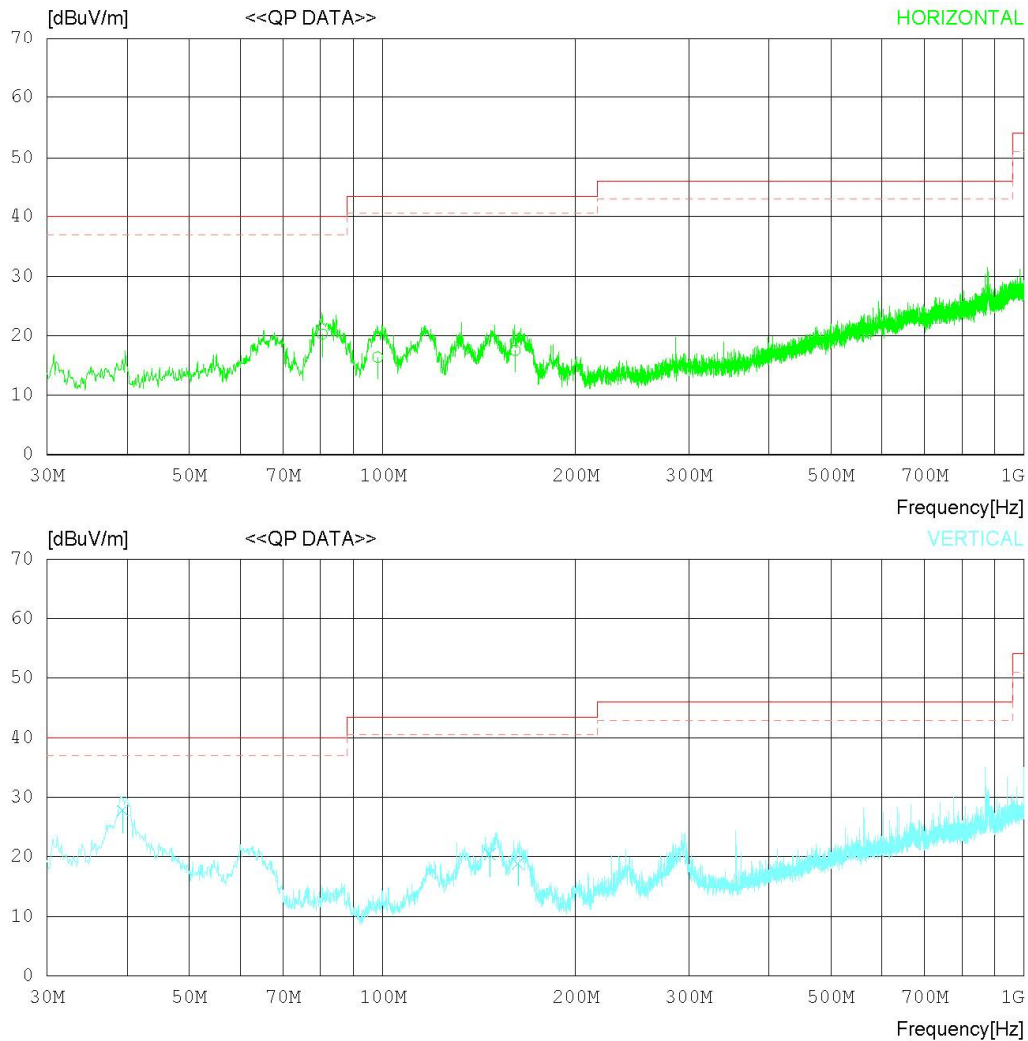
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+bujeon

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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 [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	80.561	30.20	14.29	1.48	25.74	20.23	40.00	19.77	124	124
2	98.263	25.60	14.95	1.57	25.70	16.42	43.50	27.08	227	157
3	160.947	22.60	18.82	1.78	25.65	17.55	43.50	25.95	308	175
----- Vertical -----										
4	39.336	35.50	16.80	1.19	25.81	27.68	40.00	12.32	120	124
5	146.883	25.50	18.84	1.74	25.67	20.41	43.50	23.09	227	178
6	162.645	24.10	18.69	1.78	25.65	18.92	43.50	24.58	314	227

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

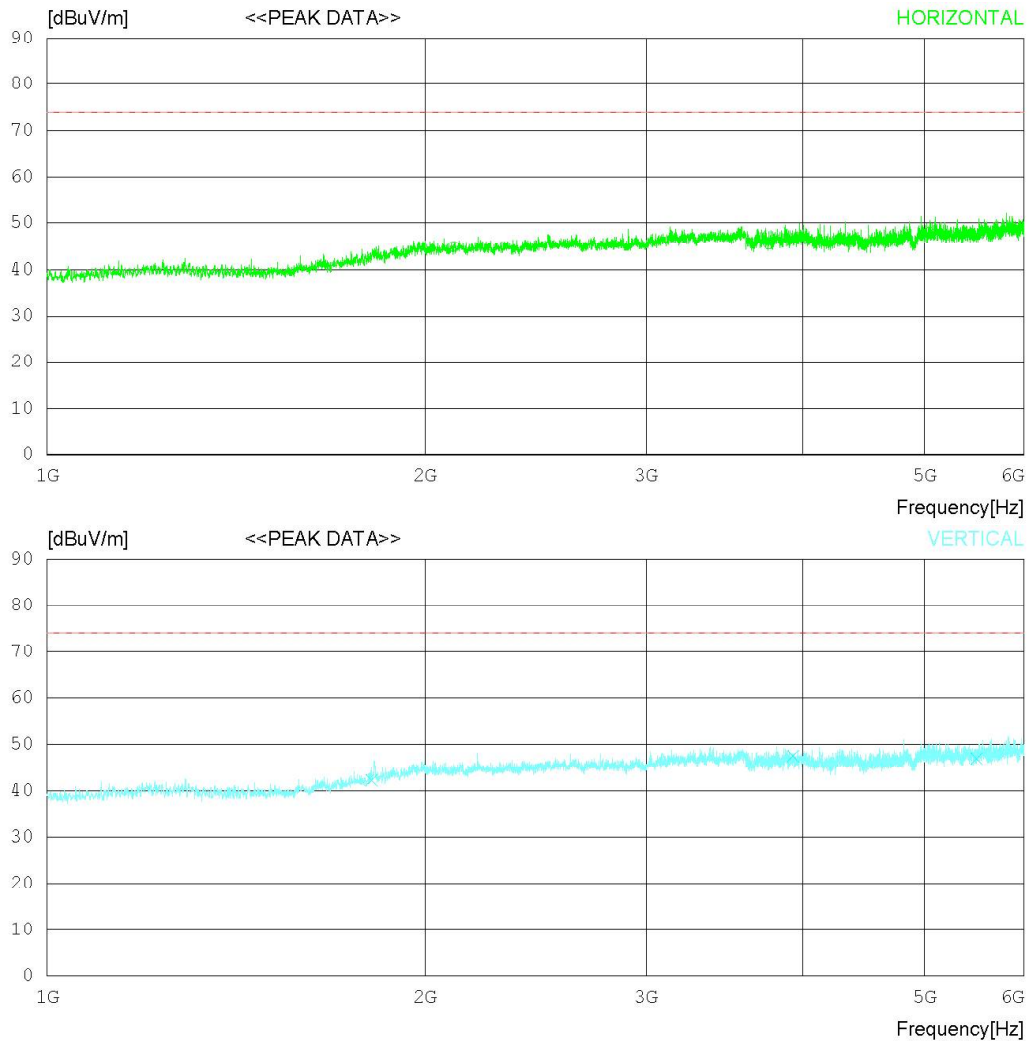
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	2108.125	41.30	31.70	6.27	34.40	44.87	74.0	29.13	242	0
2	3757.500	37.50	33.05	8.79	33.88	45.46	74.0	28.54	224	65
3	5043.125	37.90	34.19	10.72	34.87	47.94	74.0	26.06	135	0
----- Vertical -----										
4	1813.750	40.70	30.46	5.67	34.60	42.23	74.0	31.77	234	358
5	3928.750	38.80	33.39	8.91	33.64	47.46	74.0	26.54	113	354
6	5500.000	36.40	34.60	10.83	34.93	46.90	74.0	27.1	274	358

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

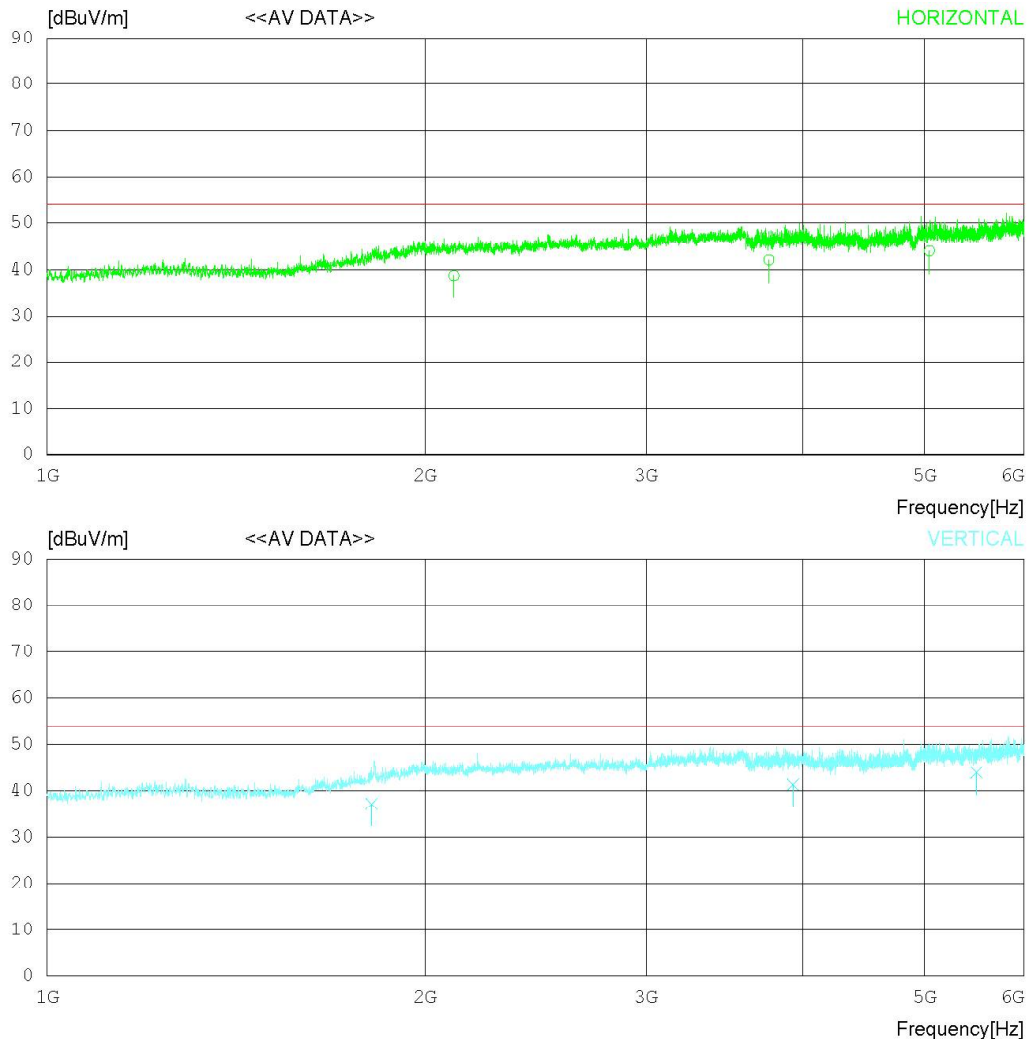
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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 [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	2108.727	35.20	31.70	6.27	34.40	38.77	54.00	15.23	120	78
2	3757.511	34.10	33.05	8.79	33.88	42.06	54.00	11.94	345	302
3	5043.133	33.90	34.19	10.72	34.87	43.94	54.00	10.06	112	134
----- Vertical -----										
4	1813.711	35.60	30.45	5.67	34.60	37.12	54.00	16.88	277	120
5	3928.140	32.60	33.39	8.91	33.64	41.26	54.00	12.74	203	273
6	5500.420	33.41	34.60	10.82	34.93	43.90	54.00	10.10	120	118

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

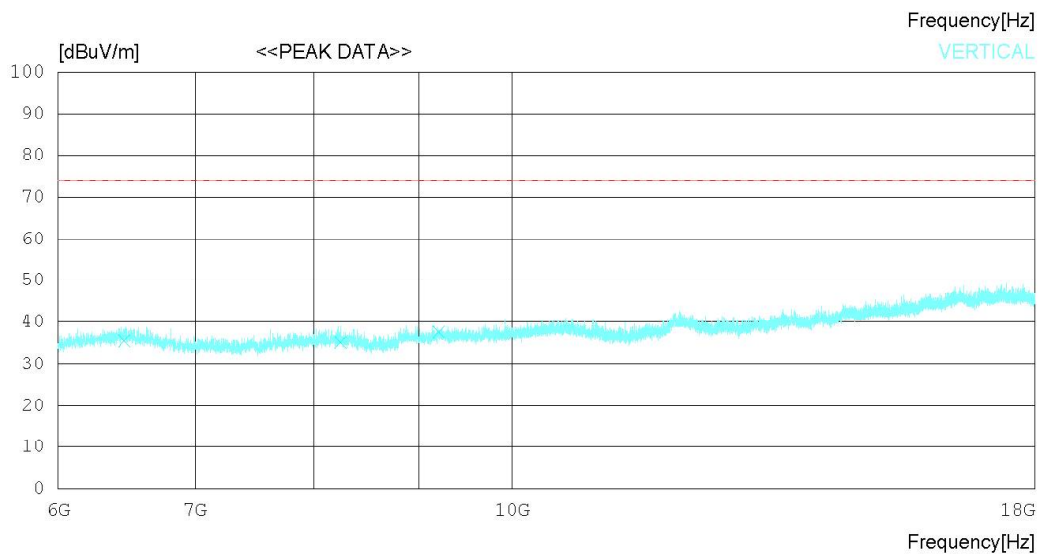
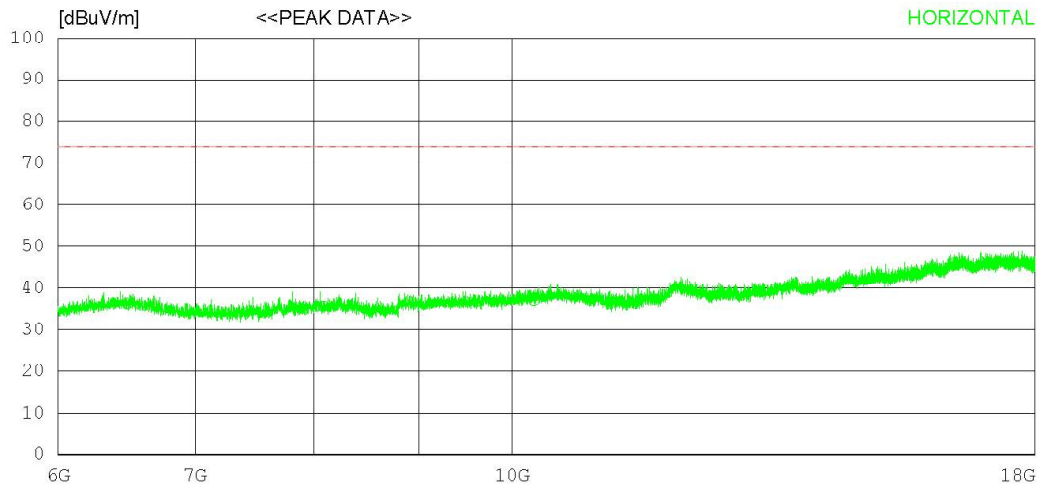
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	6486.750	32.10	31.59	11.20	38.55	36.34	74.0	37.66	247	198
2	8085.000	29.70	31.37	12.45	37.83	35.69	74.0	38.31	112	0
3	10244.250	28.10	32.52	14.48	38.02	37.08	74.0	36.92	128	0
----- Vertical -----										
4	6463.500	31.30	31.59	11.19	38.57	35.51	74.0	38.49	203	0
5	8244.750	28.60	31.50	12.78	37.74	35.14	74.0	38.86	137	221
6	9204.750	30.70	32.19	13.76	39.05	37.60	74.0	36.4	223	35

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

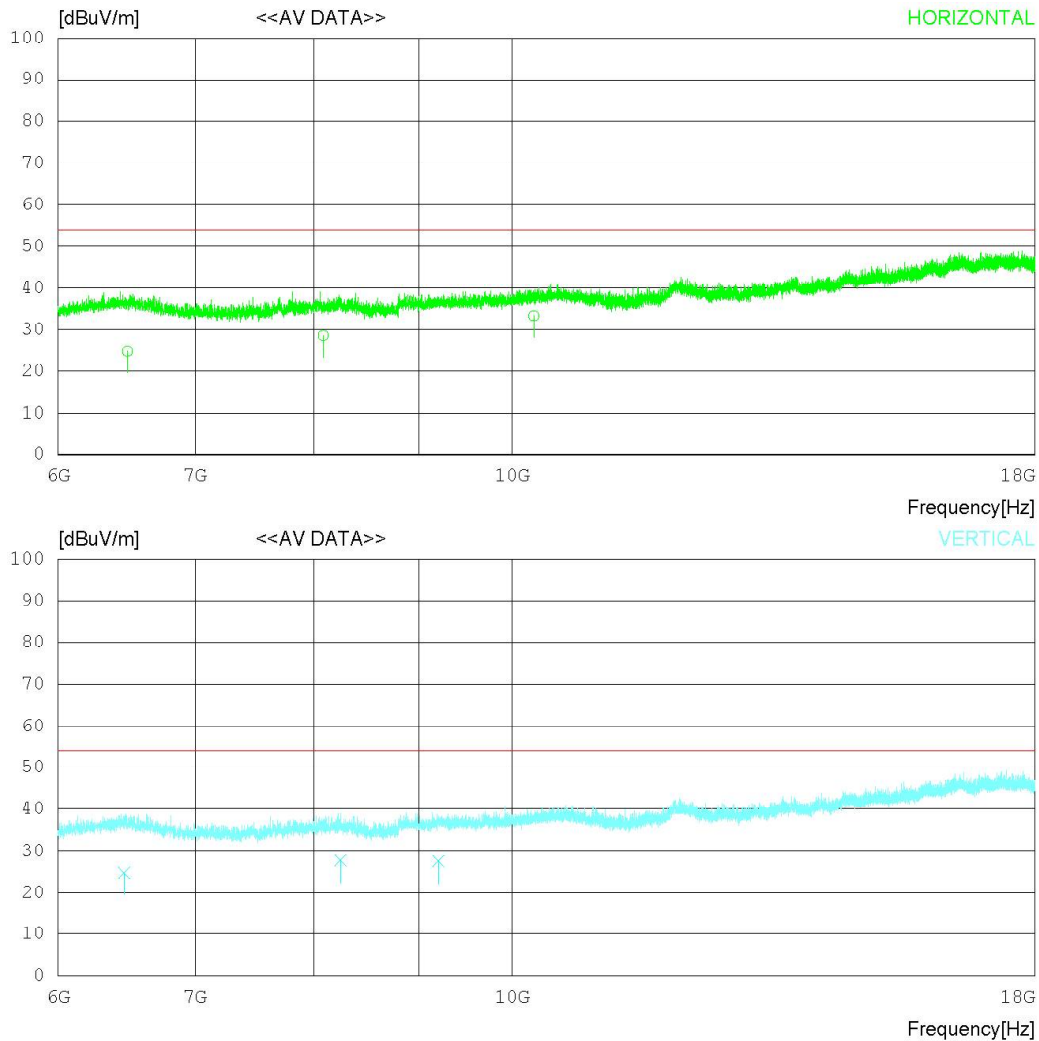
RADIATED EMISSION

Date 2019-12-08

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 'C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 21 °C 44 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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 [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	6486.412	20.60	31.59	11.20	38.55	24.84	54.00	29.16	120	72
2	8085.017	22.60	31.37	12.45	37.83	28.59	54.00	25.41	224	134
3	10244.21024.41		32.52	14.48	38.02	33.39	54.00	20.61	137	208
----- Vertical -----										
4	6463.512	20.60	31.59	11.19	38.57	24.81	54.00	29.19	120	208
5	8244.722	21.22	31.50	12.78	37.74	27.76	54.00	26.24	273	277
6	9204.120	20.68	32.19	13.74	39.05	27.56	54.00	26.44	143	132

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

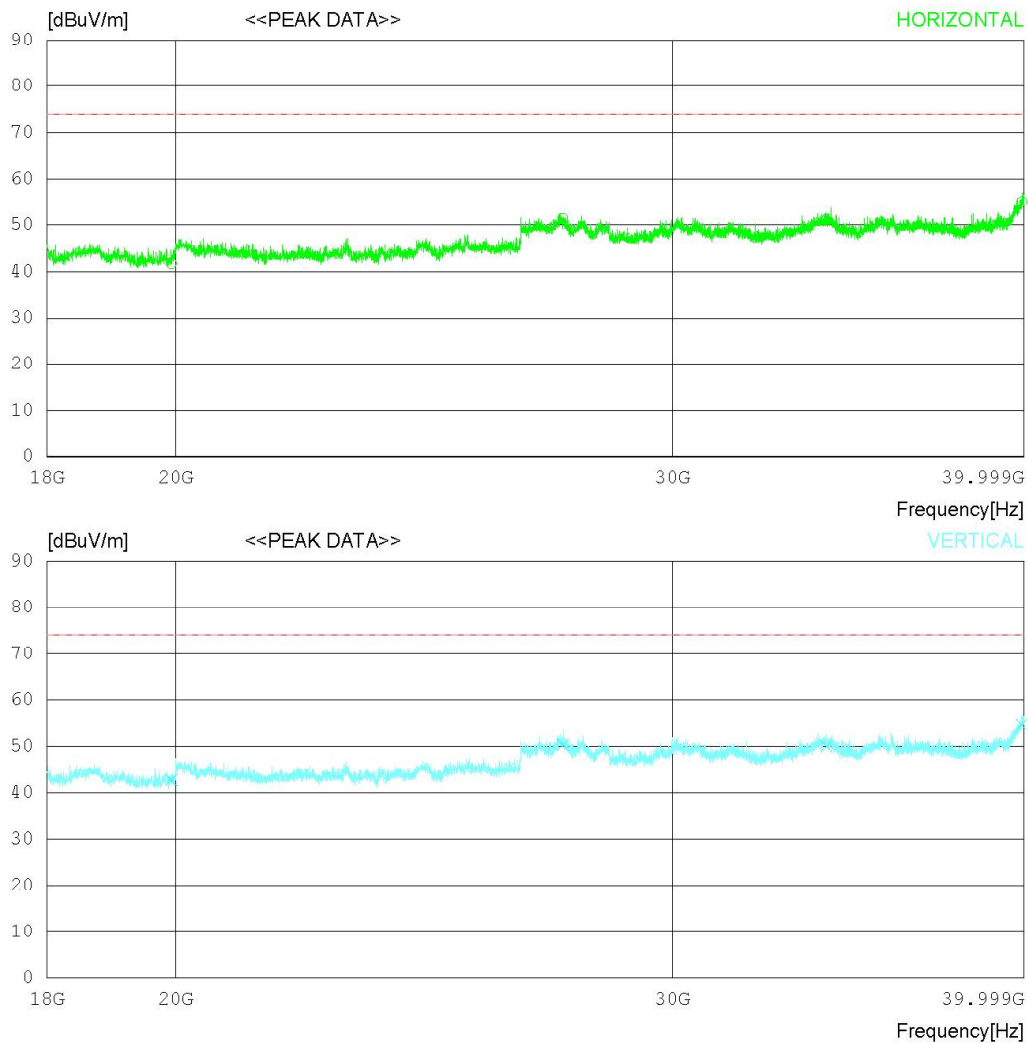
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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	19925.00028.30	39.51	19.21	45.26	41.76	74.0	32.24	243	358	
2	27435.25036.90	38.83	21.09	45.45	51.37	74.0	22.63	112	358	
3	34043.50032.50	41.41	24.16	46.82	51.25	74.0	22.75	123	143	
4	39923.00034.80	43.29	23.99	47.03	55.05	74.0	18.95	201	253	
----- Vertical -----										
5	19925.00029.20	39.51	19.21	45.26	42.66	74.0	31.34	242	0	
6	27435.25035.90	38.83	21.09	45.45	50.37	74.0	23.63	138	358	
7	34043.50031.20	41.41	24.16	46.82	49.95	74.0	24.05	237	358	
8	39923.00034.50	43.29	23.99	47.03	54.75	74.0	19.25	123	26	

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

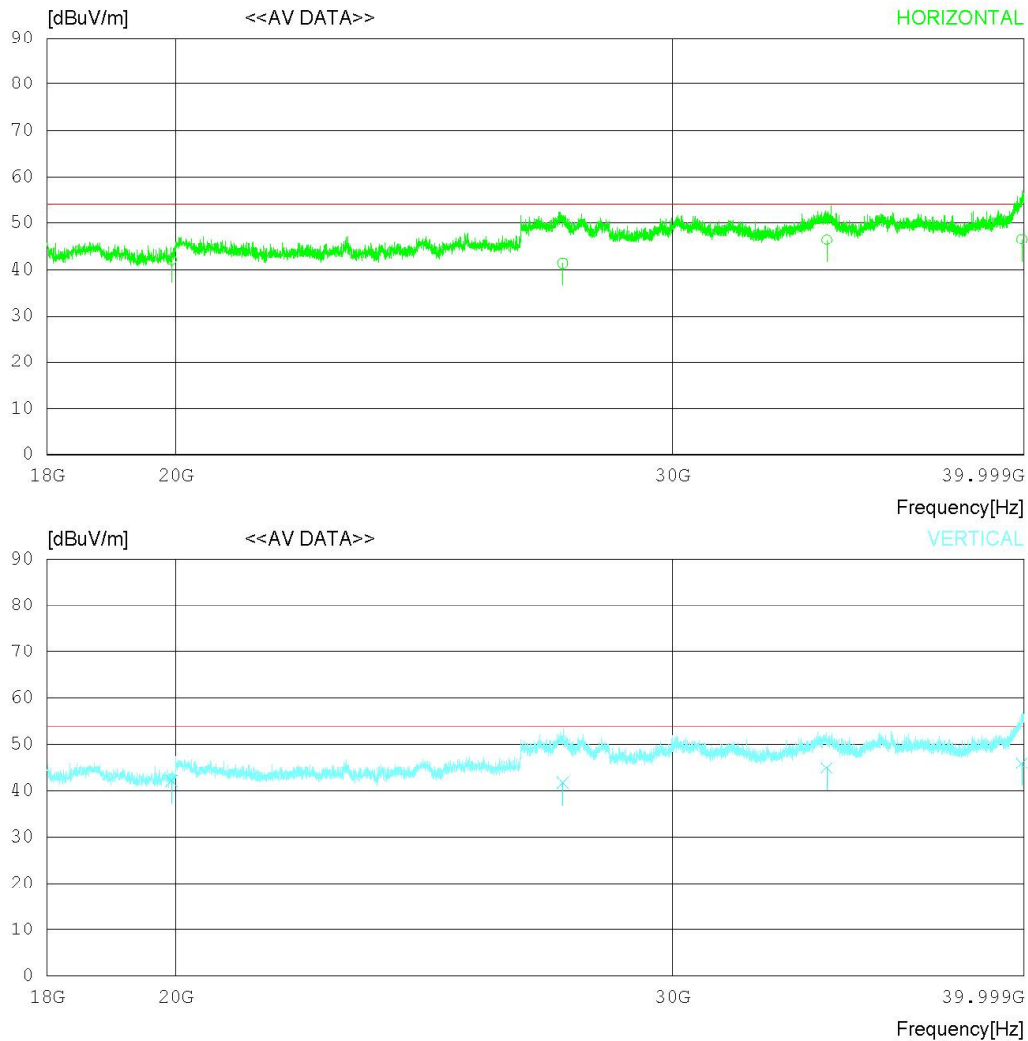
RADIATED EMISSION

Date 2019-12-10

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23°C 47 % R.H.
Test Condition FRONT CAMERA+MP3

Memo sunlin+luxshare+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	19925.12028.66		39.51	19.21	45.26	42.12	54.00	11.88	120	134
2	27435.22026.88		38.83	21.09	45.45	41.35	54.00	12.65	308	223
3	34043.51027.62		41.41	24.16	46.82	46.37	54.00	7.63	124	156
4	39923.04026.23		43.29	23.99	47.03	46.48	54.00	7.52	227	132
----- Vertical -----										
5	19925.04028.60		39.51	19.21	45.26	42.06	54.00	11.94	120	188
6	27435.11027.22		38.83	21.09	45.45	41.69	54.00	12.31	302	205
7	34043.55026.15		41.41	24.16	46.82	44.90	54.00	9.10	134	156
8	39923.72025.61		43.29	23.99	47.03	45.86	54.00	8.14	273	162

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

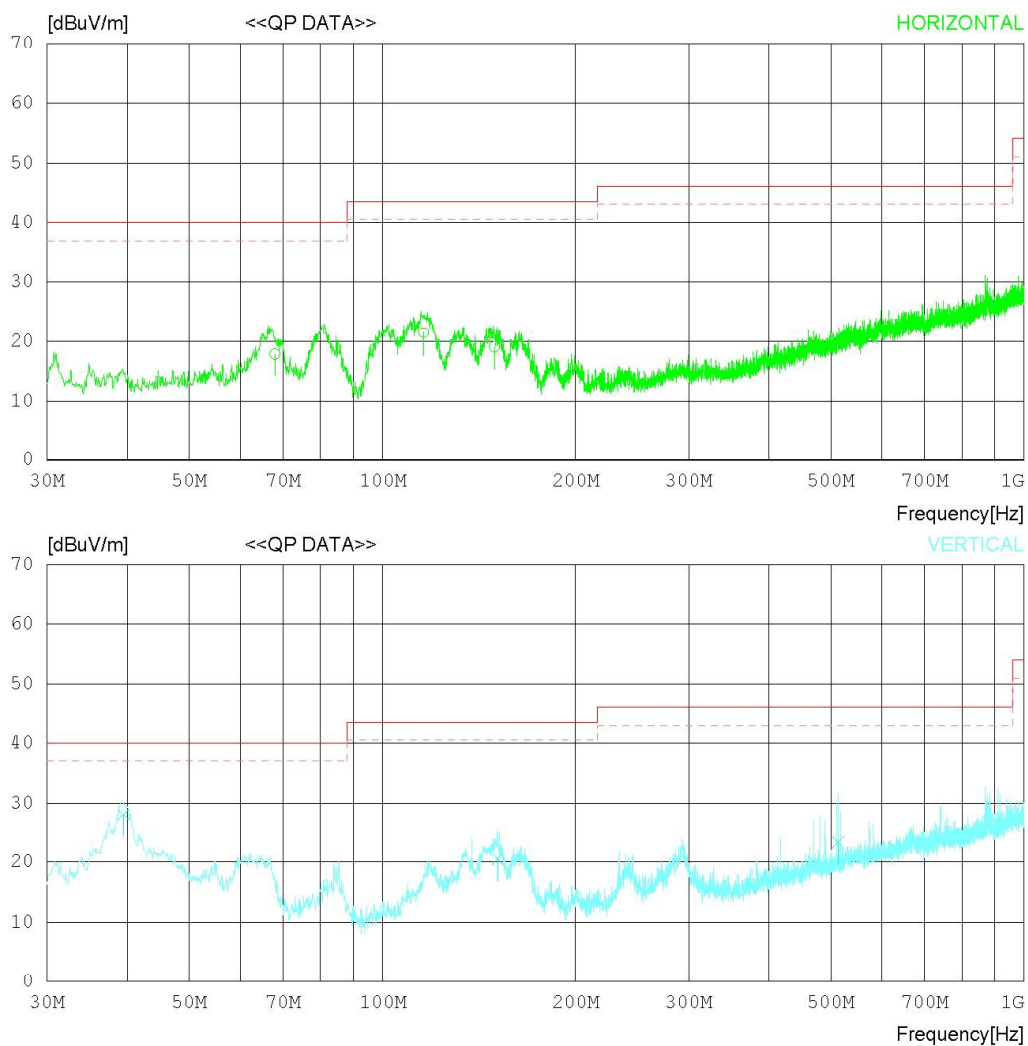
RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 'C 40 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+cresyn

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



RADIATED EMISSION

Date 2019-12-06

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+luxshare+cresyn

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

No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP [dBuV]	FACTOR [dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	67.951	25.50	16.81	1.35	25.76	17.90	40.00	22.10	120	134
2	115.965	28.80	16.70	1.64	25.69	21.45	43.50	22.05	227	208
3	149.429	24.10	18.89	1.77	25.67	19.09	43.50	24.41	302	113
----- Vertical -----										
4	39.458	35.90	16.80	1.20	25.81	28.09	40.00	11.91	127	196
5	151.247	25.50	18.90	1.77	25.67	20.50	43.50	23.00	308	161
6	512.926	21.60	24.47	2.88	25.54	23.41	46.00	22.59	114	86

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

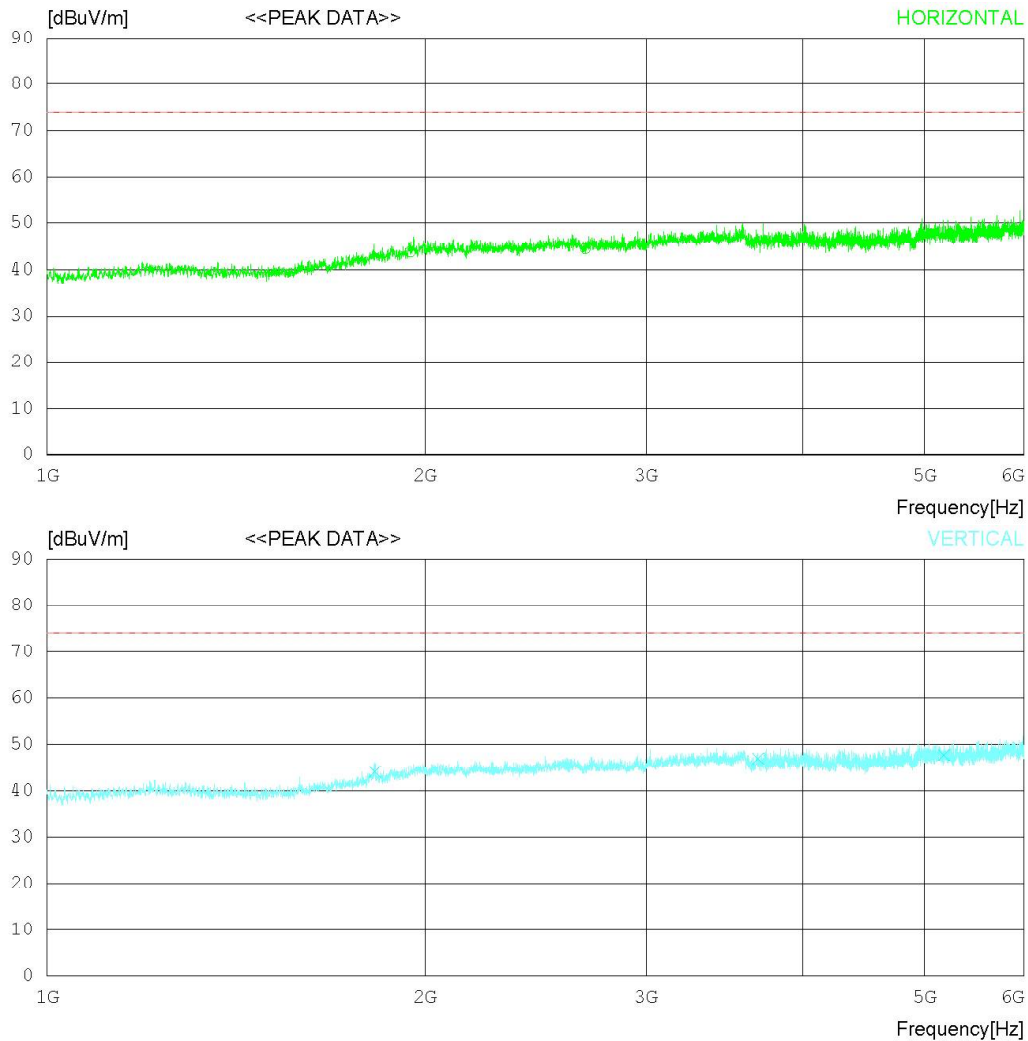
RADIATED EMISSION

Date 2019-12-07

Order No. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23 °C 40 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+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. DTNC1911-09483
Power Supply 120 V 60 Hz
Temp/Humi 23°C 40 % R.H.
Test Condition REAR CAMERA+RADIO

Memo sunlin+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	1946.250	40.70	31.47	5.98	34.42	43.73	74.0	30.27	124	0
2	2683.750	39.60	32.63	6.97	34.74	44.46	74.0	29.54	324	0
3	3910.000	37.40	33.46	8.91	33.67	46.10	74.0	27.9	112	193
----- Vertical -----										
4	1825.625	42.40	30.50	5.69	34.59	44.00	74.0	30	124	358
5	3683.750	39.40	33.00	8.56	33.98	46.98	74.0	27.02	214	1
6	5180.000	37.70	34.20	10.69	34.89	47.70	74.0	26.3	321	358