

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 : DRTFCC1909-0226(3)
2. Customer
 - Name : LG Electronics USA, Inc.
 - Address : 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
3. Use of Report : FCC Original Grant
4. Product Name / Model Name : Mobile Phone / KA1935
FCC ID : ZNFKA1935
5. Test Method Used : ANSI C63.10-2013
Test Specification : FCC Part 15.225
6. Date of Test : 2019.08.16 ~ 2019.09.04, 2019.09.18 ~ 2019.09.19
7. Testing Environment : Refer to appended test report.
8. Test Result : Refer to the attached test result.

Affirmation	Tested by 	Reviewed by 
	Name: JaeJin Lee (Signature)	Name: GeunKi Son (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.

2019 . 09 . 19 .

DT&C Co., Ltd.

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

Test Report Version

Test Report No.	Date	Description
DRTFCC1909-0226	Sep. 06, 2019	Initial issue
DRTFCC1909-0226(1)	Sep. 17, 2019	Update the Test Equipment List
DRTFCC1909-0226(2)	Sep. 18, 2019	Update the out of band emission
DRTFCC1909-0226(3)	Sep. 19, 2019	Retest the out of band emission

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1. General Information

1.1. Testing Laboratory

DT&C Co., Ltd.

The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.

The test site complies with the requirements of § 2.948 according to ANSI C63.4-2014.

- FCC MRA Accredited Test Firm No. : KR0034

www.dtnet.net

Telephone : + 82-31-321-2664

FAX : + 82-31-321-1664

1.2. Testing Environment

Ambient Condition

▪ Temperature	+22 °C ~ +23 °C
▪ Relative Humidity	35 % ~ 40 %

1.3. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C 63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence.

Parameter	Measurement uncertainty
AC conducted emission	2.4 dB (The confidence level is about 95 %, $k = 2$)
Radiated Disturbance (Below 1 GHz)	5.1 dB (The confidence level is about 95 %, $k = 2$)

1.4. Details of Applicant

Applicant : LG Electronics USA, Inc.
Address : 1000 Sylvan Ave. Englewood Cliffs, New Jersey, United States 07632
Contact person : Kyung-Su Han

1.5. Description of EUT

FCC Equipment Class	Low Power Communications Device Transmitter(DXX)
EUT	Mobile Phone
Model Name	KA1935
Add Model Name	NA
Serial Number	Identical prototype
Power Supply	DC 3.87 V
Frequency Band	13.56 MHz
Modulation Type	ASK
Channel(s)	1
Antenna type	Loop Antenna

1.6. EUT CAPABILITIES

This EUT contains the following capabilities:

850/1900 GSM, 1700/1900 WCDMA/HSUPA, Multi-band LTE, 802.11b/g/n/ac WLAN(2.4GHz),
802.11a/n/ac WLAN(5GHz), Bluetooth(BDR, EDR, LE), NFC, WPC.

2. Information about test items

2.1 Test mode

Test mode1	Continuous transmitting mode
Test mode2	Continuous transmitting mode(With Dual Display ^{Note1})

Note 1: The dual display cover is provided to the users as an accessory.

So, the radiated test items were performed at standalone configuration and condition of equipped with dual display.
(The dual screen communicates with the main unit via USB connection.)

Note 2: The worst case data rate was determined according to the fundamental emission level.

And data rate was tested at the worst case(106 kbps).

2.2 Tested frequency

Channel	TX Frequency(MHz)
Lowest	13.56
Middle	-
Highest	-

2.3 EMI Suppression Device(s)/Modifications

EMI suppression device(s) added and/or modifications made during testing

→ None

3. Antenna requirements

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

The antenna is attached on the device by means of unique coupling method (Spring Tension).

Therefore this E.U.T Complies with the requirement of §15.203

4. Test report

4.1 Summary of tests

FCC part section(s)	RSS section(s)	Parameter	Limit	Test condition	Status Note 1
2.1049	-	20 dB Bandwidth	-	Radiated	C
-	RSS-Gen [6.7]	Occupied Bandwidth	-		NA
15.225 (a)	RSS-210 [B6(a)]	In-Band Emissions	15,848 $\mu\text{V}/\text{m}$ @ 30 m 13.553 – 13.567 MHz		C Note 3
15.225 (b)	RSS-210 [B6(b)]	In-Band Emissions	334 $\mu\text{V}/\text{m}$ @ 30 m 13.410 – 13.553 MHz 13.567 – 13.710 MHz		C Note 3
15.225 (c)	RSS-210 [B6(c)]	In-Band Emissions	106 $\mu\text{V}/\text{m}$ @ 30 m 13.110 – 13.410 MHz 13.710 – 14.010 MHz		C Note 3
15.225 (d) 15.209	RSS-210 [B6(d)] RSS-GEN [8.9]	Out-of Band Emissions	Emissions outside of the specified band (13.110-14.010 MHz) must meet the radiated limits detailed in 15.209		C Note 3
15.225 (e)	RSS-210 [B6]	Frequency Stability	± 0.01 % of operating frequency	Temp & Humid Test Chamber	C
15.207	RSS-Gen [8.8]	AC Conducted Emissions	FCC Part 15.207	AC Line Conducted	C
15.203	-	Antenna Requirements	FCC Part 15.203	-	C

Note 1: C=Comply NC=Not Comply NT=Not Tested NA=Not Applicable

Note 2: For radiated emission tests below 30 MHz were performed on semi-anechoic chamber which is correlated with OATS.

Note 3: This test items were performed both normal and Dual Screen capability conditions.

4.2 Transmitter requirements

4.2.1 20dB bandwidth

- Procedure:

The 20 dB Bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

And spectrum analyzer setting use following test procedure of **ANCSI C63.10-2013 – Section 6.9.2.**

1. Center frequency = EUT channel center frequency
2. Span = 2 ~ 5 times the OBW
3. RBW = 1 % ~ 5 % OBW
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Trace = Max hold
7. The trace was allowed to stabilize
8. Determine the reference value = Set the spectrum analyzer marker to the highest level of the displayed trace
9. Using the marker-delta function of the instrument, determine the “-xx dB down amplitude” using [(reference value) – xx].
10. Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

- Measurement Data: **Comply**

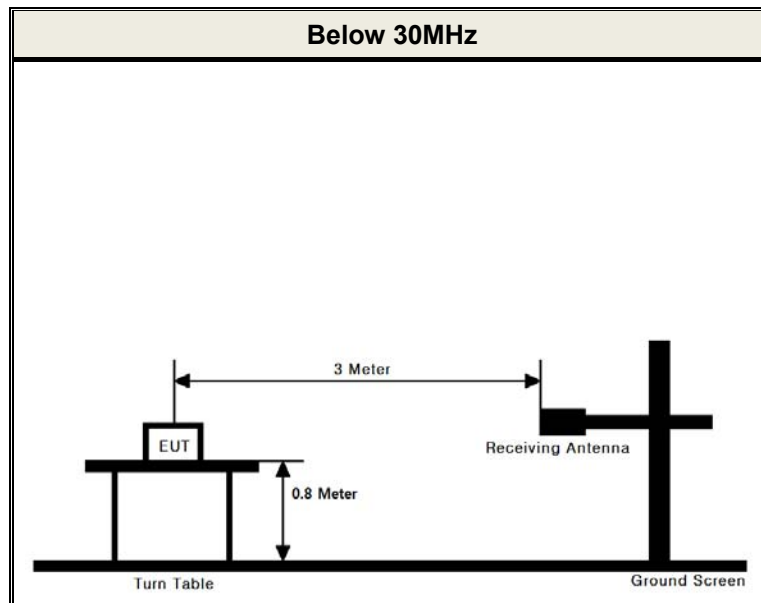


Note: The 20dB bandwidth was measured at all data rate and the worst case data was reported

- Minimum Standard: **NA**

4.2.2 In-band emissions

- Test Configuration



- Procedure: The radiated emission was tested according to the **section 6.4 of the ANSI C63.10-2013**.

The EUT was placed on a 0.8 m high non-conductive table and it was placed at 3m distance from the antenna. Measurements were performed for each of the three antenna orientations. (ie. parallel, perpendicular, and ground-parallel)

Also, measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

RBW = As specified in below table, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak
Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Minimum Standard: Part 15.225(a), (b), (c) & RSS-210 [B6(a), (b), (c)]

Frequency Band [MHz]	Limit at 30 m measurement distance	
	[uV/m]	[dBuV/m]
13.553-13.567	15,848	84.00
13.410-13.553 13.567-13.710	334	50.47
13.110-13.410 13.710-14.010	106	40.51

- Measurement Data: Test mode 1

Tested Frequency : 13.56 MHz
Measurement Distance : 3 Meters

Test Frequency Band [MHz]	Freq. [MHz]	EUT Axis.	ANT (Note 1)	Reading Level [dBuV]	T.F [dB/m]	Field Strength @3 m [dBuV/m]	Field Strength @30 m [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13.110 ~ 13.410	13.349	Z	P	22.70	9.90	32.60	-7.40	40.50	47.90
13.410 ~ 13.553	13.553	Z	P	30.40	9.90	40.30	0.30	50.20	49.90
13.553 ~ 13.567	13.561	Z	P	37.70	9.90	47.60	7.60	84.00	76.40
13.567 ~ 13.710	13.568	Z	P	32.20	9.90	42.10	2.10	50.50	48.40
13.710 ~ 14.010	13.774	Z	P	22.80	10.00	32.80	-7.20	40.50	47.70

- Measurement Data: Test mode 2

Tested Frequency : 13.56 MHz
Measurement Distance : 3 Meters

Test Frequency Band [MHz]	Freq. [MHz]	EUT Axis.	ANT (Note 1)	Reading Level [dBuV]	T.F [dB/m]	Field Strength @3 m [dBuV/m]	Field Strength @30 m [dBuV/m]	Limit [dBuV/m]	Margin [dB]
13.110 ~ 13.410	13.136	Z	P	21.70	10.00	31.70	-8.30	40.51	48.81
13.410 ~ 13.553	13.553	Z	P	29.60	9.90	39.50	-0.50	50.47	50.97
13.553 ~ 13.567	13.561	Z	P	36.70	9.90	46.60	6.60	84.00	77.40
13.567 ~ 13.710	13.568	Z	P	31.30	9.90	41.20	1.20	50.47	49.27
13.710 ~ 14.010	13.986	Z	P	23.40	10.00	33.40	-6.60	40.51	47.11

Note 1. Loop antenna orientation

“P”: Parallel, “V”: perpendicular, “G”: ground-parallel

Note 2. This test item was performed at 3 m and the data were extrapolated to the specified measurement distance of 30 m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)2.

▪ Extrapolation Factor = $20 \log_{10}(30/3)^2 = 40 \text{ dB}$

Note 3. All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

Note 4. Sample Calculation.

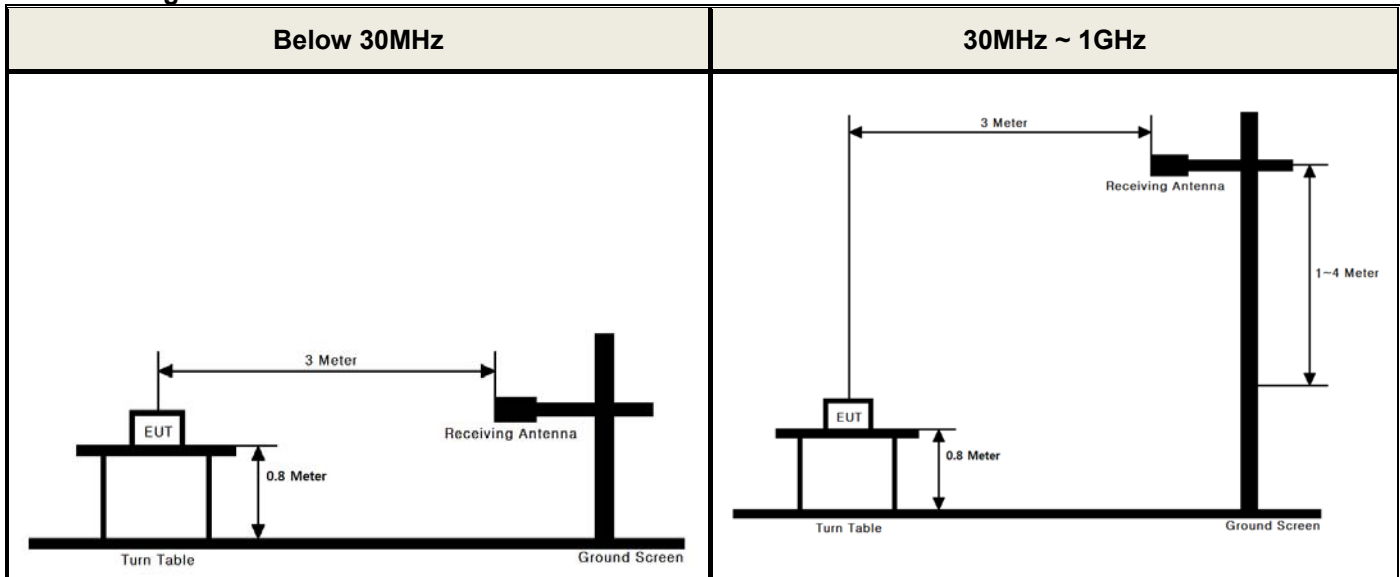
Margin = Limit – Field Strength @ 30 m / Field Strength @ 30 m = Field Strength @ 3 m – 40 dB

Field Strength @ 3 m = Reading + T.F / T.F = AF + CL

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss

4.2.3 Out-of-band emissions

- Test configuration



- Procedure: The radiated emission was tested according to the **section 6.4, 6.5 of the ANSI C63.10-2013.**

The EUT was tested from 9 kHz up to the 1 GHz excluding the band 13.110-14.010 MHz.

The EUT was placed on a 0.8 m high non-conductive table and it was placed at 3m distance from the antenna. For measurements below 30MHz were performed for each of the three antenna orientations.

(ie. parallel, perpendicular, and ground-parallel) For measurements above 30MHz were performed for each of the both horizontal and vertical polarizations.

Also, measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

RBW = As specified in below table, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak
Trace mode = Max Hold until the trace stabilizes.

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

- Minimum Standard: Part 15.209, 225(d) & RSS-210[B6(d)], RSS-GEN[8.9]

• FCC Part 15.209(a):

Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	Measurement Distance [Meters]
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	200	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

• FCC Part 15.209(b):

In the emission table above, the tighter limit applies at the band edges.

- Measurement Data: Test mode 1

Tested Frequency : 13.56 MHz
Measurement Distance : 3 Meters

Frequency [MHz]	EUT Axis.	ANT (Note 1)	Reading [dBuV]	T.F [dB/m]	Distance factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
0.679	Z	P	34.9	11.6	40	6.5	31	24.5
0.911	Z	P	33	11.5	40	4.5	28.4	23.9
1.615	Z	P	27.4	11.3	40	-1.3	23.4	24.7
2.856	Z	P	24.5	11	40	-4.5	29.5	34
13.560	Z	P	37.7	9.9	40	7.6	-	-
14.200	Z	P	17	9.9	40	-13.1	29.5	42.6
26.960	Z	P	12.9	7.9	40	-19.2	29.5	48.7
40.670	Z	V	34.5	-9.2	0	25.3	40	14.7
54.250	Z	H	26.3	-8.9	0	17.4	40	22.6
67.830	Z	H	33.8	-10.5	0	23.3	40	16.7
473.291	Z	V	23.2	-1.8	0	21.4	46	24.6
956.337	Z	V	30.3	7.2	0	37.5	46	8.5

- Measurement Data: Test mode 2

Tested Frequency : 13.56 MHz
Measurement Distance : 3 Meters

Frequency [MHz]	EUT Axis.	ANT (Note 1)	Reading [dBuV]	T.F [dB/m]	Distance factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
0.693	Z	H	34.3	11.6	40	5.9	34.7	28.8
2.910	Z	H	25.6	10.9	40	-3.5	30.8	34.3
3.140	Z	H	25	10	40	-5	29.8	34.8
13.560	Z	H	37.4	9.9	40	7.3	-	-
14.200	Z	H	16.8	9.9	40	-13.3	29.5	42.8
27.160	Z	H	11.5	7.9	40	-20.6	29.5	50.1
40.670	Z	V	35	-9.2	0	25.8	40	14.2
54.250	Z	V	26.9	-8.9	0	18	40	22
67.830	Z	V	36.4	-10.5	0	25.9	40	14.1
870.980	Z	V	28.2	5.4	0	33.6	46	12.4

Note 1. Loop antenna orientation (30 MHz Below)

“P”= Parallel, “V”= perpendicular, “G”= ground-parallel

Bilog antenna polarization (30 MHz above)

“H”= Horizontal, “V”= Vertical

Note 2. All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

Note 3. No other spurious and harmonic emissions were reported greater than listed emissions above table.

Note 4. Sample calculation

Margin = Limit – Field Strength

Field Strength = Reading + T.F – Distance factor

T.F = AF + CL – AG

Distance factor = $20\log(\text{Measurement distance} / \text{The measured distance})^2$

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

4.2.4 Frequency Stability

- Procedure:

Part 15.225 requires that devices operating in the 13.553 – 13.567 MHz shall maintain the carrier frequency within 0.01 % of the operating frequency over the temperature variation of -20 degrees to + 50 degrees C at normal supply voltage.

- Measurement Data: **Comply**

Operating Frequency : 13,560,000 Hz

VOLTAGE (%)	POWER (V _{DC})	TEMP (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%	3.87	+20(ref)	13,560,146	146	0.001077
100%		-20	13,560,352	352	0.002596
100%		-10	13,560,412	412	0.003038
100%		0	13,560,318	318	0.002345
100%		+10	13,560,289	289	0.002131
100%		+20	13,560,146	146	0.001077
100%		+30	13,560,114	114	0.000841
100%		+40	13,560,085	85	0.000627
100%		+50	13,560,056	56	0.000413
115%	4.45	+20	13,560,304	304	0.002242
BATT.ENDPOINT	2.35	+20	13,560,099	99	0.000730

- Minimum Standard: Part 15. 225(e) & RSS-210 [B6]

The frequency tolerance of the carrier signal shall be maintained within ± 0.01 % of the operating frequency.

4.2.5 AC Line Conducted Emissions

- Test Requirements and limit

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

- Test Configuration

See test photographs for the actual connections between EUT and support equipment.

- Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

- **Measurement Data:** **Comply** (refer to the next page)

Test mode 1

Measurement Data

Results of Conducted Emission

DTNC

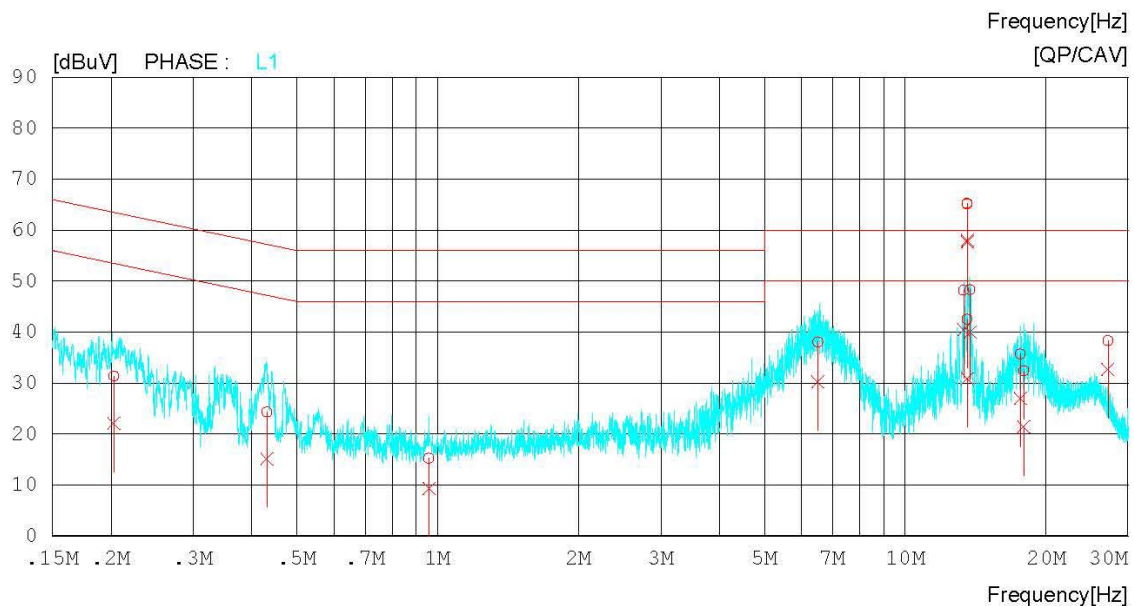
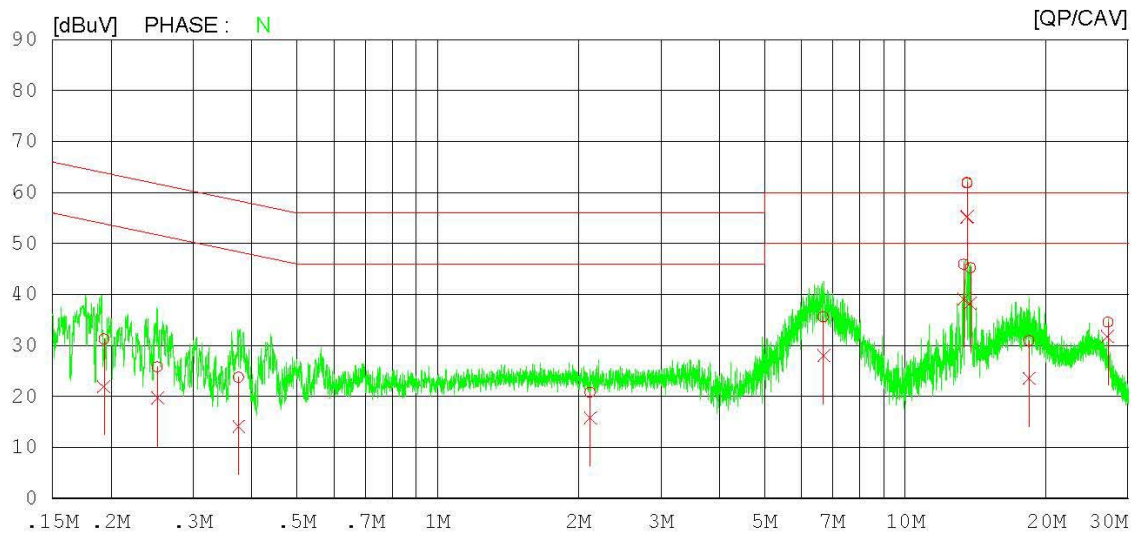
Date 2019-08-16

Order No.
Model No. KA1935
Serial No.
Test Condition NFC

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 35 %
Operator J. H. Bang

Memo

LIMIT : FCC P15.207 QP
FCC P15.207 AV



Measurement Data

Results of Conducted Emission

DTNC

Date 2019-08-16

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LIMIT : FCC P15.207 QP
FCC P15.207 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	0.19315	21.33	11.98	9.94	31.27	21.92	63.90	53.90	32.63	31.98	N
2	0.25176	15.86	9.79	9.94	25.80	19.73	61.70	51.70	35.90	31.97	N
3	0.37520	13.79	4.17	9.95	23.74	14.12	58.39	48.39	34.65	34.27	N
4	2.11960	10.79	5.77	10.03	20.82	15.80	56.00	46.00	35.18	30.20	N
5	6.67960	25.40	17.77	10.22	35.62	27.99	60.00	50.00	24.38	22.01	N
6	13.34760	35.54	28.71	10.44	45.98	39.15	60.00	50.00	14.02	10.85	N
7	13.55960	51.42	44.80	10.44	61.86	55.24	60.00	50.00	-1.86	-5.24	N
8	13.56000	51.50	44.86	10.44	61.94	55.30	60.00	50.00	-1.94	-5.30	N
9	13.77120	34.77	27.76	10.46	45.23	38.22	60.00	50.00	14.77	11.78	N
10	18.40160	20.36	12.99	10.53	30.89	23.52	60.00	50.00	29.11	26.48	N
11	27.11900	23.91	21.09	10.70	34.61	31.79	60.00	50.00	25.39	18.21	N
12	0.20280	21.38	12.09	9.94	31.32	22.03	63.50	53.50	32.18	31.47	L1
13	0.43144	14.33	5.18	9.95	24.28	15.13	57.22	47.22	32.94	32.09	L1
14	0.95793	5.24	-0.64	9.97	15.21	9.33	56.00	46.00	40.79	36.67	L1
15	6.50360	27.85	20.05	10.20	38.05	30.25	60.00	50.00	21.95	19.75	L1
16	13.34620	37.76	30.01	10.42	48.18	40.43	60.00	50.00	11.82	9.57	L1
17	13.56000	54.74	47.55	10.42	65.16	57.97	60.00	50.00	-5.16	-7.97	L1
18	13.56080	54.63	47.22	10.42	65.05	57.64	60.00	50.00	-5.05	-7.64	L1
19	13.57000	32.07	20.42	10.42	42.49	30.84	60.00	50.00	17.51	19.16	L1
20	13.77100	37.81	29.52	10.43	48.24	39.95	60.00	50.00	11.76	10.05	L1
21	17.61920	25.15	16.46	10.50	35.65	26.96	60.00	50.00	24.35	23.04	L1
22	17.93520	21.87	10.90	10.50	32.37	21.40	60.00	50.00	27.63	28.60	L1
23	27.12020	27.62	21.96	10.67	38.29	32.63	60.00	50.00	21.71	17.37	L1

Test mode 1 (With antenna terminated)

Measurement Data

Results of Conducted Emission

DTNC

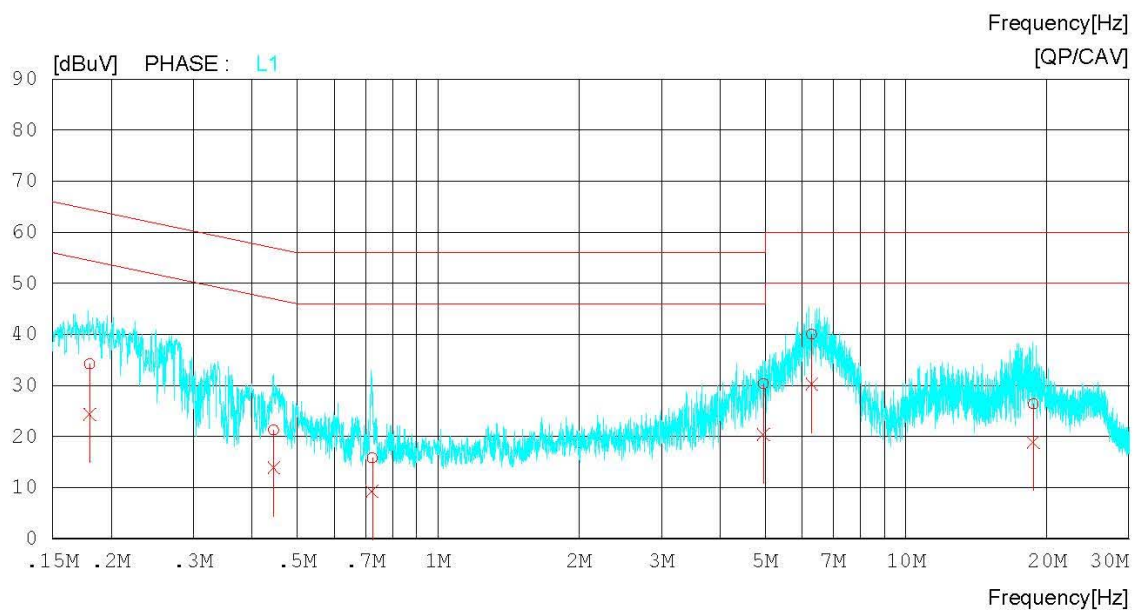
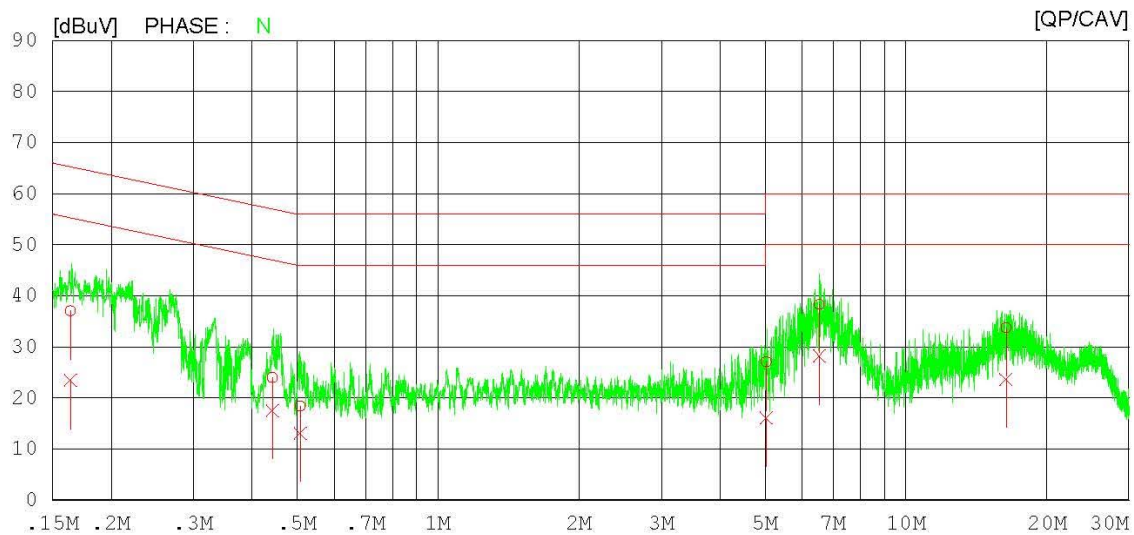
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Serial No.
Test Condition NFC

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 35 %
Operator J. H. Bang

Memo

LIMIT : FCC P15.207 QP
FCC P15.207 AV



Measurement Data

Results of Conducted Emission

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LIMIT : FCC P15.207 QP
FCC P15.207 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	0.16367	27.15	13.53	9.94	37.09	23.47	65.28	55.28	28.19	31.81	N
2	0.44254	14.00	7.55	9.95	23.95	17.50	57.01	47.01	33.06	29.51	N
3	0.50735	8.45	3.20	9.95	18.40	13.15	56.00	46.00	37.60	32.85	N
4	5.02600	16.84	5.92	10.16	27.00	16.08	60.00	50.00	33.00	33.92	N
5	6.52700	28.11	18.05	10.20	38.31	28.25	60.00	50.00	21.69	21.75	N
6	16.35340	23.29	13.13	10.51	33.80	23.64	60.00	50.00	26.20	26.36	N
7	0.18011	24.23	14.41	9.94	34.17	24.35	64.48	54.48	30.31	30.13	L1
8	0.44544	11.28	3.93	9.95	21.23	13.88	56.96	46.96	35.73	33.08	L1
9	0.72344	5.83	-0.80	9.96	15.79	9.16	56.00	46.00	40.21	36.84	L1
10	4.95680	20.15	10.19	10.16	30.31	20.35	56.00	46.00	25.69	25.65	L1
11	6.28720	29.72	20.04	10.20	39.92	30.24	60.00	50.00	20.08	19.76	L1
12	18.70320	15.82	8.34	10.51	26.33	18.85	60.00	50.00	33.67	31.15	L1

APPENDIX

TEST EQUIPMENT FOR TESTS

Type	Manufacturer	Model	Cal.Date (yy/mm/dd)	Next.Cal.Date (yy/mm/dd)	S/N
Spectrum Analyzer	Agilent Technologies	N9020A	19/06/26	20/06/26	US47360812
Multimeter	FLUKE	17B	18/12/18	19/12/18	26030065WS
Signal Generator	Rohde Schwarz	SMBV100A	18/12/19	19/12/19	255571
Thermohygrometer	BODYCOM	BJ5478	18/12/27	19/12/27	120612-1
Thermohygrometer	SATO	PC-5000TRH-II	19/07/03	20/07/03	N/A
HYGROMETER	TESTO	608-H1	19/01/31	20/01/31	34862883
Temp&HumiTest Chamber	SJ Science	SJ-TH-S50	19/06/25	20/06/25	SJ-TH-S50-130930
Loop Antenna	ETS	6502	19/03/21	21/03/21	3471
BILOG ANTENNA	Schwarzbeck	VULB 9160	18/07/13	20/07/13	3359
PreAmplifier	tsj	MLA-10K01-B01-27	18/10/31	19/10/31	2005354
EMI Receiver	ROHDE&SCHWARZ	ESW44	19/07/30	20/07/30	101645
EMI Test Receiver	Rohde Schwarz	ESCI7	19/01/30	20/01/30	100910
PULSE LIMITER	Rohde Schwarz	ESH3-Z2	18/09/27	19/09/27	101333
LISN	SCHWARZBECK	NNLK 8121	19/03/19	20/03/19	06183
Cable	HUBER+SUHNER	SUCOFLEX	18/12/21	19/12/21	C-1
Cable	HUBER+SUHNER	SUCOFLEX	18/12/21	19/12/21	C-2
Cable	HUBER+SUHNER	SUCOFLEX	18/12/21	19/12/21	C-3
Cable	HUBER+SUHNER	SUCOFLEX	18/12/21	19/12/21	C-4

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017

Note2: The cable is not a regular calibration item, so it has been calibrated by DT & C itself.