

243 Jubug-Ri, Yangji-Myeon, Yongin-Si, Gyeonggi-Do, Korea 17159 Tel: +82-31-323-6008 Fax: +82-31-323-6010 http://www.ltalab.com

> Dates of Tests: Feb 08 ~ March 02, 2020 Test Report S/N: LR500112003A Test Site: LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID.

2AVQ5BT-ACTB

APPLICANT

BT Inc.

Equipment Class : Part 15 Spread Spectrum Transmitter

Manufacturing Description : ALS Training Simulator

Manufacturer : BT Inc.

Model name : BT-ACTB

Test Device Serial No.: : Identical prototype

Rule Part(s) : FCC Part 15.247 Subpart C ; ANSI C-63.10-2013

Frequency Range : 2402 ~ 2480 MHz

Max. Output Power : Max 13.07 dBm – Conducted (Basic)

Max 9.09 dBm – Conducted (EDR)

Data of issue : March 02, 2020

This test report is issued under the authority of:

JaBeom. Koo

The test was supervised by:

고경훈

Ja-Beom Koo, Manager

Eun-Hwan Jung, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.



NVLAP LAB Code.: 200723-0

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1. General information

1-1 Test Performed

Company name : LTA Co., Ltd.

Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822

Web site : http://www.ltalab.com
E-mail : chahn@ltalab.com
Telephone : +82-31-323-6008
Facsimile +82-31-323-6010

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

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2020-09-30	ECT accredited Lab.
RRA	KOREA	KR0049	-	EMC accredited Lab.
FCC	U.S.A	649054	2021-04-11	FCC CAB
VCCI	JAPAN	C-4948,	2020-09-10	VCCI registration
VCCI	JAPAN	T-2416,	2020-09-10	VCCI registration
VCCI	JAPAN	R-4483(10 m),	2020-10-15	VCCI registration
VCCI	JAPAN	G-847	2022-06-13	VCCI registration
IC	CANADA	5799A-1	2021-06-16	IC filing
KOLAS	KOREA	NO.551	2021-08-20	KOLAS accredited Lab.

Ref. No.: LR500112003A

2. Information about test item

2-1 Client & Manufacturer

Company name : BT Inc.

Address : A-313 Samsong Techno-valley, 140, Tongil-ro, Deogyang-gu

Goyang-si, Gyeonggi-do, 10594, South Korea

Tel / Fax : TEL No: +82-01- 2756-2614 / FAX No: +82-303-3130-607

Model name : BT-ACTB

2-2 Equipment Under Test (EUT)

Date of receipt : March 02, 2020

EUT condition : Pre-production, not damaged

Antenna type : Chip Antenna

Frequency Range : 2402 ~ 2480 MHz

RF output power : Max 13.07 dBm – Conducted (Basic)

Max 9.09 dBm – Conducted (EDR)

Number of channels : 79

Type of Modulation : Basic Mode(GFSK), EDR Mode(Pi/4 DQPSK, 8DPSK)

Power Source : DC 5.0 V Firmware Version : V1.0.0

2-3 Tested frequency

Bluetooth	LOW	MID	HIGH
Frequency (MHz) – Basic & EDR	2402	2441	2480

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Notebook	CR720	MS-1736	MSI

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	Carrier Frequency Separation	≥ 2/3 of 20dB BW		N/A
15.247(a)	Number of Hopping Frequencies	≥ 15 channels		N/A
15.247(a)	20 dB Bandwidth 99% Bandwidth	_		N/A
15.247(a)	Dwell Time	≤ 0.4 seconds	Conducted	N/A
15.247(b)	Transmitter Output Power	≤ 1W for 1Mbps ≤ 125mW for 2,3Mbps		N/A
15.247(d)	Conducted Spurious emission	> 20 dBc		N/A
15.247(d)	Band Edge	> 20 dBc		N/A
15.205 / 15.209	Field Strength of Harmonics	< 54 dBuV (at 3m)	Radiated	С
15.109	Field Strength	-	Radiated	С
15.207 /15.107	AC Conducted Emissions	EN 55022	Conducted	NA
15.203	Antenna requirement	_	-	С

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

Note 2: The data in this test report are traceable to the national or international standards.

<u>N/A</u>: The product replaces this test with a certificate using an authenticated module.

→ Antenna Requirement

Bluebird Inc. FCC ID : 2AVQ5BT-ACTB unit complies with the requirement of $\S15.203$.

The antenna type is Patch Antenna

The sample was tested according to the following specification:

*FCC Parts 15.247; ANSI C-63.4-2014

*FCC KDB Publication No. 558074 D01 v05r02

*FCC TCB Workshop 2012, April

3.2 TECHNICAL CHARACTERISTIC TEST

3.2.1 Carrier Frequency Separation

Procedure:

The test follows DA00-705. The carrier frequency separation was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

After the trace being stable, the reading value between the peaks of the adjacent channels using the marker-delta function was recorded as the measurement results.

The spectrum analyzer is set to:

Span = 2~ 3 MHz (wide enough to capture the peaks of two adjacent channels)

RBW = 100 kHz (1% of the span or m Sweep = auto

ore)

VBW = 100 kHz

Detector function = peak

Trace = max hold

Measurement Data: N/A

Minimum Standard:

The EUT shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thir ds of 20 dB bandwidth of the hopping channel, whichever is greater.

Measurement Setup

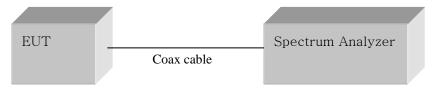


Figure 1: Measurement setup for the carrier frequency separation

3.2.2 Number of Hopping Frequencies

Procedure:

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies

The spectrum analyzer is set to (Bluetooth):

Frequency range Start = 2400.0 MHz, Stop = 2483.5 MHz

RBW = 100 kHz (1% of the span or more) Sweep = auto

 $VBW = 100 \text{ kHz} \text{ (VBW } \geq \text{ RBW)}$ Detector function = peak

 $Trace = max \ hold \qquad \qquad Span \, > \, 40 \ MHz$

Measurement Data: N/A

Minimum Standard:

At least 15 channels

Measurement Setup

3.2.3 20 dB Bandwidth

Procedure:

The bandwidth at 20 dB below the highest inband spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

The spectrum analyzer is set to Bluetooth:

Center frequency = the highest, middle and the lowest channels

Span = 3 MHz (approximately 2 or 3 times of the 20 dB bandwidth)

RBW = 30 kHz Sweep = auto

VBW = 30 kHz (VBW ≥ RBW) Detector function = peak

Trace = max hold

Measurement Data: N/A

Minimum Standard:

N/A

Measurement Setup

3.2.4 Time of Occupancy (Dwell Time)

Procedure:

The test follows DA00-705. The dwell time was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

The spectrum analyzer is set to:

Center frequency = 2441 MHz Span = zero

RBW = 1 MHz $VBW = 1 MHz (VBW \ge RBW)$

Trace = max hold Detector function = peak

Measurement Data (RFID): N/A

Minimum Standard:

0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

Measurement Setup

3.2.5 Transmitter Output Power

Procedure:

The test follows DA00-705. The peak output power was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

Span = 10 MHz (approximately 5 times of the 20 dB bandwidth)

RBW = 3 MHz (greater than the 20 dB bandwidth of the emission being measured)

VBW = 3 MHz (VBW ≥ RBW) Detector function = peak

Trace = \max hold Sweep = auto

Measurement Data: N/A

Minimum Standard: at least 1 W.

Measurement Setup

3.2.6 Band Edge

Procedure:

The bandwidth at 20 dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz VBW = 300 kHz

Span = 10~30 MHz Detector function = peak

Trace = max hold Sweep = auto

Measurement Data: N/A

Minimum Standard:	> 20 dBc
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Measurement Setup

3.2.7 Conducted Spurious Emissions

Procedure:

The test follows DA00-705. The conducted spurious emissions were measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function disabled at the highest, middle and the lowest available channels..

After the trace being stable, set the marker on the peak of any spurious emission recorded.

The spectrum analyzer is set to:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions

RBW = 100 kHz Sweep = auto

VBW = 100 kHz Detector function = peak

Trace = max hold

Measurement Data: N/A

Minimum Standard: > 20 dBc

Measurement Setup

3.2.8 Radiated Spurious Emissions

Procedure:

The EUT was placed on a 0.8 m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz ~ 10th harmonic.

 $RBW = 100 \text{ kHz} (30 \text{ MHz} \sim 1 \text{ GHz})$ $VBW \geq RBW$

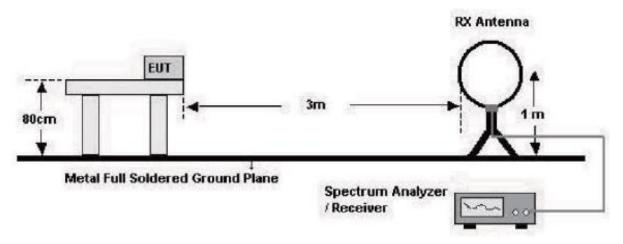
= 1 MHz $(1 \text{ GHz} \sim 10^{\text{th}} \text{ harmonic})$

Span = 100 MHz Detector function = peak

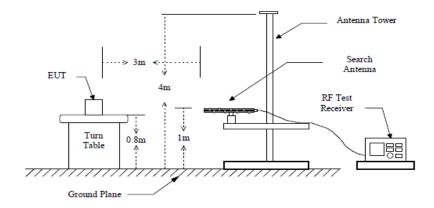
Trace = \max hold Sweep = auto

Note: Attach worst-case data in accordance with ANSI C63.10-2013 6.3.4.

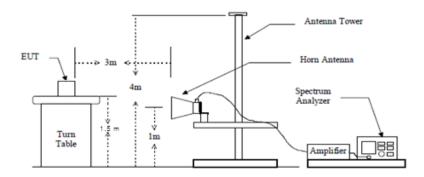
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



Measurement Data: Complies

- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20 dB below limit include from 9 kHz to 30 MHz.
- Measurement Data: (9 kHz 30 MHz) -Basic, EDR

Frequency	Reading [dBuV/m]		Pol.	Correction Factor			nits V/m]		sult V/m]	Mai [d	gin B]
[MHz]	AV /	/ Peak		Antenna	Amp.Gain+Cable	AV ,	/ Peak	AV ,	/ Peak	AV /	Peak
-	-	_	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	-	-	-
*No emissions were detected at a level greater than 20 dB below limit.											
-	-	_	-	-	-	-	-	_	_	-	-

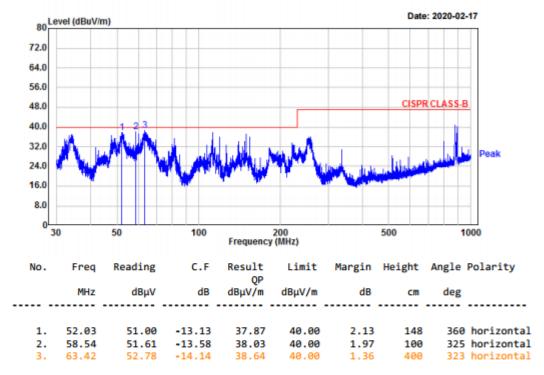
^{*}No emissions were detected at a level greater than 20 dB below limit.

Minimum Standard: FCC Part 15.209(a)

Frequency (MHz)	Limit (uV/m) @ 3 m
0.009 ~ 0.490	2400/F(kHz) (@ 300 m)
0.490 ~ 1.705	24000/F(kHz) (@ 30 m)
1.705 ~ 30	30(@ 30 m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

^{**} 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 470-80 6 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

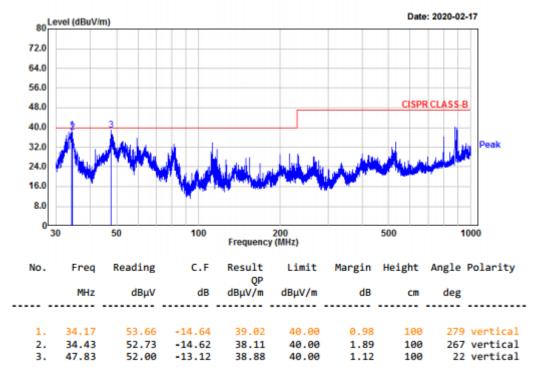
Radiated Emissions - Basic mode (below 1GHz)



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Measurement Data: Low(Below 1 GHz) -Basic

F	Reading		Correction	Limits	Result	Margin
Frequency	[dBuV/m]	Pol.	Factor	[dD::V/ma]	[dBuV/ma]	[4D]
[MHz]			Antenna-Amp.Gain+Cable	[dBuV/m]	[dBuV/m]	[dB]
52.03	51.00	Н	-13.13	46	37.87	8.13
58.54	51.68	Н	-13.58	46	38.03	7.97
63.42	52.78	Н	-14.14	46	38.64	7.36



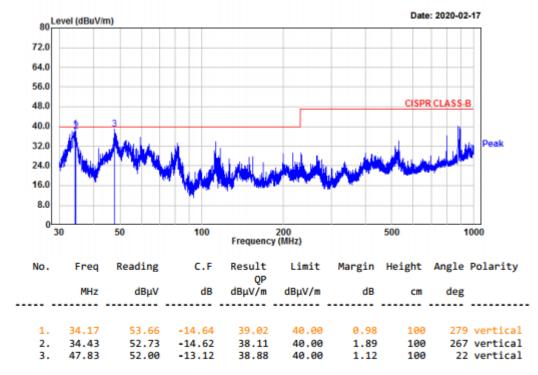
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Measurement Data: High (Below 1 GHz) -Basic

Fraguancy	Reading		Correction	Limits	Result	Margin	
Frequency	[dD::V/ma]	Pol. Factor				[dD]	
[MHz]	[dBuV/m]		Antenna-Amp.Gain+Cable	[dBuV/m]	[dBuV/m]	[dB]	
34.17	53.66	Н	-14.64	46	39.02	6.98	
34.43	52.73	Н	-14.62	46	38.11	7.89	
47.83	52.00	Н	-13.12	46	38.88	7.12	

⁻ No other emissions were detected at a level greater than 20 dB below limit.

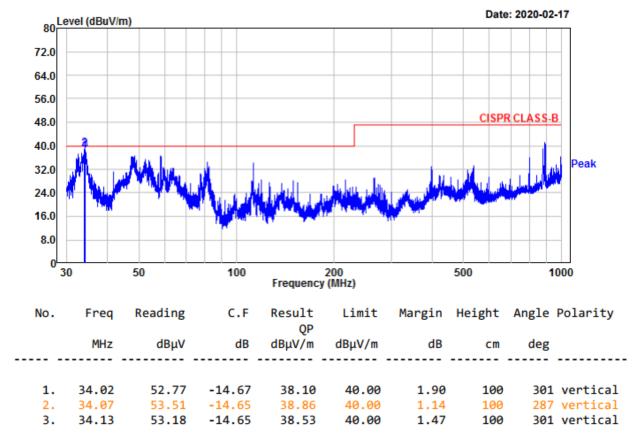
Radiated Emissions – EDR mode (below 1GHz)



Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Measurement Data: Low(Below 1 GHz)-EDR

Fraguana	Reading		Correction	Limits	Result	Margin
Frequency	[dBuV/m]	Pol.	Factor	[dBuV/ma]	[dBuV/m]	[dD]
[MHz]			Antenna-Amp.Gain+Cable	[dBuV/m]	[abuv/m]	[dB]
34.17	53.66	Н	-14.64	46	39.02	6.98
34.43	52.73	Н	-14.62	46	38.11	7.89
47.83	52.00	Н	-13.12	46	38.88	7.12



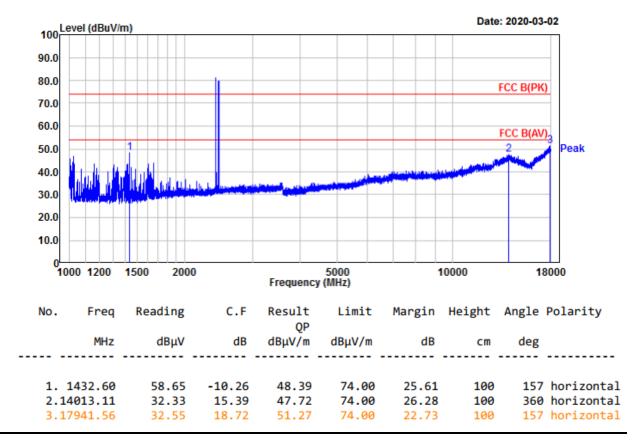
Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

Measurement Data: HIGH (Below 1 GHz)-EDR

Frequency	Reading		Correction	Limits	Result	Margin
riequency	[dBuV/m]	Pol.	Factor	[dPuV/m]	[dPuV/m]	[dD]
[MHz]	[ubuv/m]		Antenna-Amp.Gain+Cable	[dBuV/m]	[dBuV/m]	[dB]
34.02	52.77	Н	-14.67	46	38.10	7.90
34.07	53.51	Н	-14.65	46	38.86	7.14
34.13	53.18	Н	-14.65	46	38.53	7.47

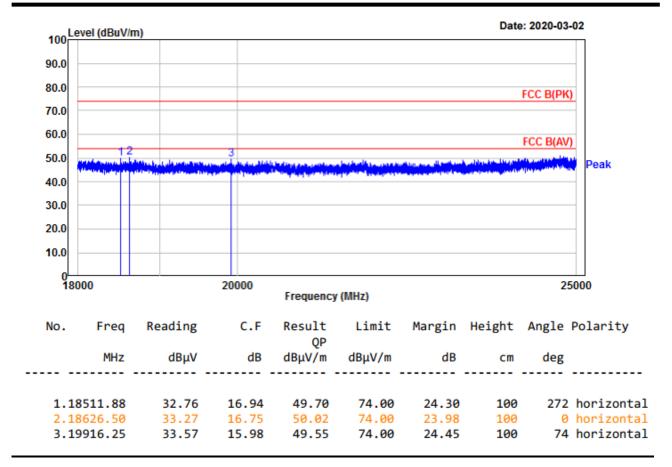
⁻ No other emissions were detected at a level greater than 20 dB below limit.

Radiated Emissions - Basic mode (Above 1GHz)



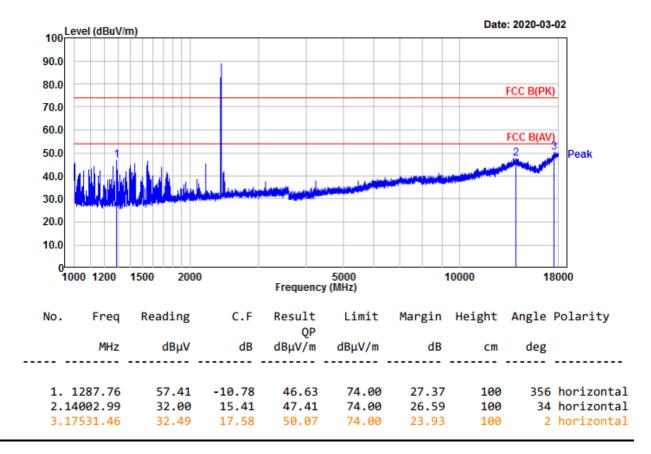
Measurement Data: Low (Above 1 GHz)-Basic

Frequency [MHz]	[dBuV/m]		Pol.	Correction Factor Antenna-Amp.Gain+Cable	Limits [dBuV/m] AV/Peak		Result [dBuV/m] AV/Peak		Margin [dB] AV / Peak	
1432.60	19.79	58.65	Н	-10.26	54	74	9.53	48.39	44.47	25.61
14013.11	19.04	32.33	Н	15.39	54	74	34.43	47.72	19.57	26.28
17941.56	19.70	32.55	Н	18.72	54	74	38.42	51.27	15.58	22.73



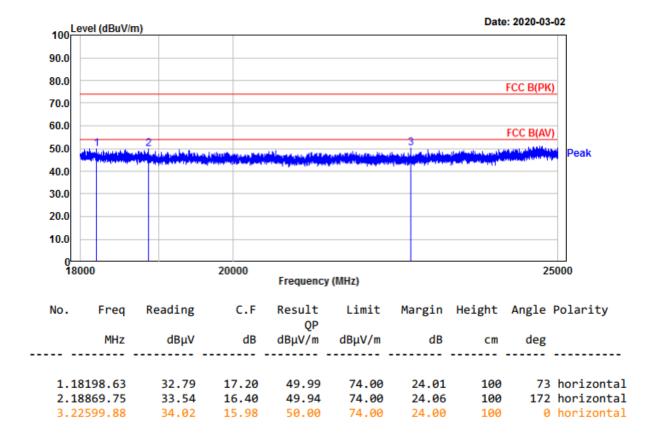
Measurement Data: Low (Above 1 GHz)-Basic

Fraguanay	Rea	ding		Correction	Lin	nits	Res	sult	Mai	rgin
Frequency [dBuV/m]		Pol.	Factor	Factor [dBuV/m]		[dBuV/m]		[dB]		
[MHz]	[MHz] AV / Peak			Antenna-Amp.Gain+Cable	AV/	Peak	AV/Peak		AV / Peak	
18511.88	15.61	32.76	Н	16.94	54	74	32.55	49.70	21.45	24.30
18626.50	16.15	33.27	Н	16.75	54	74	32.90	50.02	21.10	23.98
19916.25	16.22	33.57	Н	15.98	54	74	32.20	49.55	21.80	24.45



Measurement Data: HiGH (Above 1 GHz) -Basic

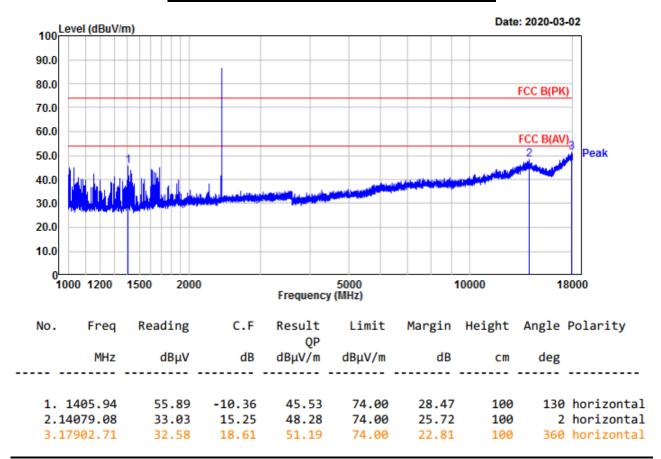
Frequency	Reading				Lin	nits	Res	sult	Margin	
[dBuV/m]		Pol.	Factor	[dBuV/m]		[dBuV/m]		[dB]		
[MHz]	AV /	Peak		Antenna-Amp.Gain+Cable	AV/	Peak	AV/	AV/Peak		Peak
1287.76	19.55	57.41	Н	-10.78	54	74	8.77	46.63	45.23	27.37
14002.99	21.08	32.00	Н	15.41	54	74	36.49	47.41	17.51	26.59
17531.46	19.64	32.49	Н	17.58	54	74	37.22	50.07	16.78	23.93



Measurement Data: HiGH (Above 1 GHz) -Basic

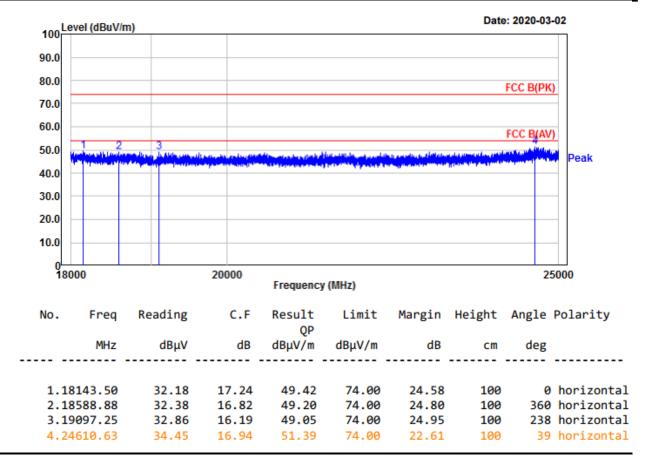
Fraguanay	Rea	ding		Correction	Lin	nits	Res	sult	Mai	rgin
riequency	Frequency [dBuV/m]		Pol.	Factor	[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	[MHz] AV / Peak			Antenna-Amp.Gain+Cable	AV/Peak		AV/Peak		AV / Peak	
18198.63	14.55	32.79	Н	17.20	54	74	31.75	49.99	22.25	24.01
18869.75	15.08	33.54	Н	16.40	54	74	31.48	49.94	22.52	24.06
22599.88	15.64	34.02	Н	15.98	54	74	31.62	50.00	22.38	24.00

Radiated Emissions – EDR mode (Above 1GHz)



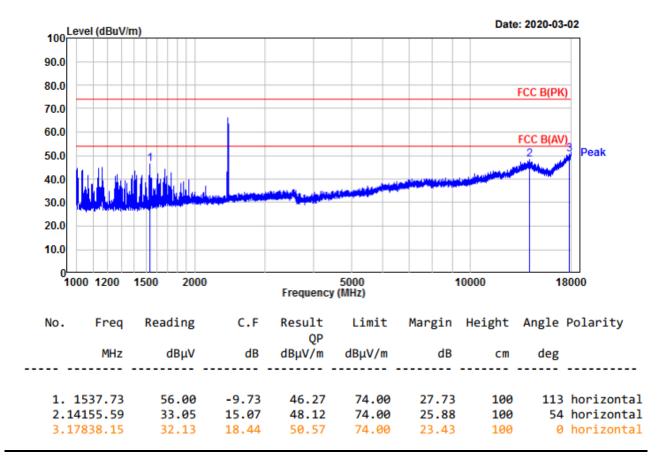
Measurement Data: HiGH (Above 1 GHz) -EDR

Frequency	[dBuV/m]		[dBuV/m] Pol. Factor		[dBu	nits V/m]	Result [dBuV/m]		Margin [dB]	
[MHz]	[MHz] AV / Peak			Antenna-Amp.Gain+Cable	AV/Peak		AV/Peak		AV / Peak	
1405.94	19.55	55.89	Н	-10.36	54	74	9.19	45.53	44.81	28.47
14079.08	21.08	33.03	Н	15.25	54	74	36.33	48.28	17.67	25.72
17902.71	19.64	32.58	Н	18.61	54	74	38.25	51.19	15.75	22.81



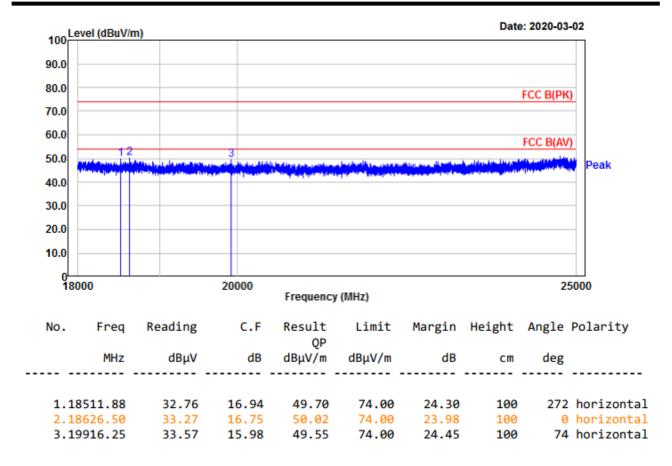
Measurement Data: HiGH (Above 1 GHz) -EDR

Frequency	Reading [dBuV/m]				Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
[MHz]	AV /	Peak		Antenna-Amp.Gain+Cable	AV/	Peak	AV/	AV/Peak		Peak
18143.50	14.25	32.18	Н	17.24	54	74	31.49	49.42	22.51	24.58
18588.88	14.67	32.38	Н	16.82	54	74	31.49	49.20	22.51	24.80
24610.63	15.02	34.45	Н	16.94	54	74	31.96	51.39	22.04	22.61



Measurement Data: Low (Above 1 GHz)-EDR

Frequency	[dBuV/m]		[dBuV/m]		Pol.	Correction Factor	[dBu	nits V/m]	[dBu	, <u>-</u>	[d	rgin B]
[MHz]	[MHz] AV / Peak			Antenna-Amp.Gain+Cable	AV/Peak		AV/Peak		AV / Peak			
1537.73	19.79	56.00	Н	-9.73	54	74	10.06	46.27	43.94	27.73		
14155.59	19.04	33.05	Н	15.07	54	74	34.11	48.12	19.89	25.88		
17838.15	19.70	32.13	Н	18.44	54	74	38.14	50.57	15.86	23.43		



Measurement Data: Low (Above 1 GHz)-EDR

Frequency	Frequency [dBuV/m]				Lin	nits		sult	Margin	
			Pol.	Factor	[dBuV/m]		[dBuV/m]		[dB]	
[MHz]	AV /	Peak		Antenna-Amp.Gain+Cable	AV/	Peak	AV/	AV/Peak		Peak
18511.88	15.79	32.76	Н	16.94	54	74	32.73	49.7	21.27	24.30
18626.50	16.04	33.27	Н	16.75	54	74	32.79	50.02	21.21	23.98
19916.25	16.73	33.57	Н	15.98	54	74	32.71	49.55	21.29	24.45

3.3.9 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: NA

Minimum Standard: FCC Part 15.207(a)/EN 55022

Class B

Frequency Range	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

Ref. No.: LR500112003A

APPENDIX TEST EQUIPMENT USED FOR TESTS

	Use	Description	Model No.	Serial No.	Manufacturer	Interval	Last Cal. Date
1		Signal Analyzer (9 kHz ~ 30 GHz)	FSV30	100757	R&S	1 year	2019-09-07
2		Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2019-03-21
3		SYNTHESIZED CW GENERATOR	83711B	US34490456	НР	1 year	2019-09-06
4		Attenuator (3 dB)	8491A	37822	НР	1 year	2019-09-07
5		Attenuator (10 dB)	8491A	63196	НР	1 year	2019-09-07
6		EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2019-09-07
7		RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	НР	1 year	2019-09-07
8		RF Amplifier (1~26.5 GHz)	8449B	3008A02126	НР	1 year	2019-03-21
9		Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2018-08-04
10		DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2018-03-21
11		DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2018-03-21
12		TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2019-04-17
13		Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2019-03-21
14		Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15		DC Power Supply	6674A	3637A01657	Agilent	-	-
17		Power Meter	EPM-441A	GB32481702	НР	1 year	2019-03-21
18		Power Sensor	8481A	3318A94972	НР	1 year	2019-09-07
19		Audio Analyzer	8903B	3729A18901	НР	1 year	2019-09-07
20		Modulation Analyzer	8901B	3749A05878	НР	1 year	2019-09-07
21		TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2019-09-07
22		Stop Watch	HS-3	812Q08R	CASIO	2 year	2019-03-21
23		LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2019-09-07
24		Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2019-03-21
25		UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2019-03-21
26		Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2019-03-21
27		Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2019-03-21
28		OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2019-03-21
29		Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2019-03-21
30		Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2019-03-21
31		Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2019-02-26
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