



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: March 10, 2021 ~ April 15, 2021

Test Report S/N: LR500112104J

Test Site : LTA CO., LTD.

CERTIFICATION OF COMPLIANCE

FCC ID

2AVQ5BT-ACTB-L

APPLICANT

BT Inc.

Equipment Class	:	Part 15 Spread Spectrum Transmitter (DSS)
Manufacturing Description	:	ALS Training Simulator
Manufacturer	:	BT Inc.
Model name	:	BT-ACTB-L
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	FCC Part 15.247 Subpart C ; ANSI C63.10 - 2013
Frequency Range	:	BDR,EDR (2402 ~ 2480 MHz)
RF power	:	Max 13.07 dBm – Conducted (Basic) Max 9.09 dBm – Conducted (EDR)
Data of issue	:	April 16, 2021

This test report is issued under the authority of:

Ja-Beom.Koo

Ja-Beom Koo, Manager

The test was supervised by:

Jae-Hum Yeon

Jae-Hum Yeon, 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[®]

NVLAP LAB Code.: 200723-0

TABLE OF CONTENTS

1. GENERAL INFORMATION -----	3
2. INFORMATION ABOUT TEST ITEM -----	4
3. TEST REPORT -----	5
3.1 SUMMARY OF TESTS -----	5
3.2 FREQUENCY HOPPING SYSTEM REQUIREMENTS-----	6
3.3 TECHNICAL CHARACTERISTICS TEST -----	7
3.3.1 CARRIER FREQUENCY SEPARATION -----	7
3.3.2 NUMBER OF HOPPING FREQUENCIES -----	8
3.3.3 20 dB BANDWIDTH -----	9
3.3.4 TIME OF OCCUPANCY (Dwell Time) -----	10
3.3.5 TRANSMITTER OUTPUT POWER -----	11
3.3.6 BAND EDGE -----	12
3.3.7 CONDUCTED SPURIOUS EMISSIONS -----	13
3.3.8 RADIATED SPURIOUS EMISSIONS -----	14
3.3.9 AC Conducted Emissions -----	23

APPENDIX

APPENDIX TEST EQUIPMENT USED FOR TESTS -----	24
--	----

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	2021-09-30	ECT accredited Lab.
	KOREA		-	
RRA	U.S.A	KR0049	2023-04-08	RRA accredited Lab.
	CANADA		2022-10-18	
		C-14948	2023-09-10	
VCCI	JAPAN	T-12416	2023-09-10	VCCI registration
		R-14483	2023-10-15	
		G-10847	2021-12-13	
KOLAS	KOREA	KT551	2021-08-20	KOLAS accredited Lab.

2. Information about test item

2-1 Client & Manufacturer

Client Company name : BT Inc.
Address : A-313 Samsong Techno-valley, 140, Tongil-ro, Deogyang-gu , Goyang-si, Gyeonggi-do, 10594, Republic of Korea
Tel / Fax : TEL No : +82-01-2756-2614 / FAX No : + 82-303-3130-607
Manufacturer : BT Inc.
Address : A-313 Samsong Techno-valley, 140, Tongil-ro, Deogyang-gu , Goyang-si, Gyeonggi-do, 10594, Republic of Korea
Tel / Fax : TEL No : +82-01-2756-2614 / FAX No : + 82-303-3130-607

2-2 Equipment Under Test (EUT)

Model name	:	BT-ACTB-L
Serial number	:	Identical prototype
Date of receipt	:	March 10, 2021
EUT condition	:	Pre-production, not damaged
Frequency Range	:	2402 ~ 2480MHz
RF output power	:	Max 13.07 dBm – Conducted (Basic) Max 9.09 dBm – Conducted (EDR)
Type of Modulation	:	Basic Mode(GFSK), EDR Mode($\text{Pi}/4$ DQPSK, 8DPSK)
Power Source	:	DC 5 V
Firmware Version	:	V0.1

2-3 Tested frequency

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

2-4 Ancillary Equipment

Equipment	Model No.	Serial No.	Manufacturer
Notebook	-	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	$\geq 2/3$ of 20dB BW	Conducted	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		N/A
15.247(b)	Transmitter Output Power	≤ 1 W for 1Mbps ≤ 125 mW for 2,3Mbps		N/A
15.247(d)	Conducted Spurious emission	> 20 dBc		N/A
15.247(d)	Band Edge	> 20 dBc		N/A
15.249 / 15.209	Field Strength of Harmonics	< 54 dBuV (at 3m)	Radiated	C
15.109	Field Strength	—		C
15.207 /15.107	AC Conducted Emissions	EN 55022	Line Conducted	N/A
15.203	Antenna requirement	—	—	C

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

Note 2: This product operates only with battery and does not operate during charging.

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

Note 1: Antenna Requirement

Alien Technology Asia. FCC ID: 2AVQ5BT-ACTB-L unit complies with the requirement of §15.203.

The antenna type is Patch Antenna

The sample was tested according to the following specification:

*FCC Parts 15.247; ANSI C-63.4-2014;ANSI C-63.10-2013

*FCC KDB Publication No. 558074 D01 v05r02

*FCC TCB Workshop 2012, April

3.2 Frequency Hopping System Requirements

3.2.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

3.3 TECHNICAL CHARACTERISTIC TEST

3.3.1 Carrier Frequency Separation

Procedure:

The test follows ANSI C63.10. 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 = 10 kHz (1% of the span or more) Sweep = auto

VBW = 10 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-thirds of 20 dB bandwidth of the hopping channel, whichever is greater.

Measurement Setup

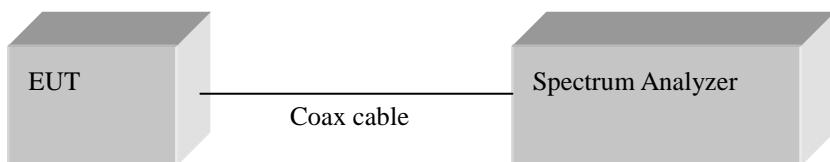


Figure 1: Measurement setup for the carrier frequency separation

3.3.2 Number of Hopping Frequencies

Procedure:

The test follows ANSI C63.10. The number of hopping frequencies was measured with a spectrum analyzer connected to the antenna terminal, while EUT had its hopping function enabled.

To get higher resolution, four frequency ranges within the 2400 ~ 2483.5 MHz FH band were examined.

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 kHz (VBW \geq RBW) Detector function = peak

Trace = max hold Span > 40 MHz

Measurement Data : N/A**Minimum Standard:**

At least 15 channels

Measurement Setup

Same as the Chapter 3.3.1 (Figure 1)

3.3.3 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 \geq RBW)

Detector function = peak

Trace = max hold

Measurement Data: N/A

Minimum Standard:

N/A

Measurement Setup

Same as the Chapter 3.3.1 (Figure 1)

3.3.4 Time of Occupancy (Dwell Time)

Procedure:

The test follows ANSI C63.10. 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 \geq RBW)

Trace = max hold

Detector function = peak

Measurement Data (Basic,EDR): N/A

Minimum Standard:

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

Measurement Setup

Same as the Chapter 3.3.1 (Figure 1)

3.3.5 Transmitter Output Power

Procedure:

The test follows ANSI C63.10. 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 \geq RBW)

Detector function = peak

Trace = max hold

Sweep = auto

Measurement Data : N/A

Minimum Standard:	For frequency hopping systems with at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems: 0.125 W.
--------------------------	--

Measurement Setup

Same as the Chapter 3.3.1 (Figure 1)

3.3.6 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

Span = 10~30 MHz Detector function = peak

Measurement Data: N/A

Minimum Standard:	> 20 dBc
--------------------------	----------

Measurement Setup

Same as the Chapter 3.3.1 (Figure 1)

3.3.7 Conducted Spurious Emissions

Procedure:

The test follows ANSI C63.10. 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

Same as the Chapter 3.3.1 (Figure 1)

3.3.8 Radiated Spurious Emissions

Procedure:

Radiated emissions from the EUT were measured according to the dictates of ANSI C63.10. 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.

- (a) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 3 m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30 MHz, Bi-Log Test Antenna (30 MHz to 1 GHz) and Horn Test Antenna (above 1 GHz) are used. Test Antenna is 3 m away from the EUT. Test Antenna height is carried from 1 m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 kHz ~ 10th harmonic.

RBW = 120 kHz (30 MHz ~ 1 GHz)

VBW \geq RBW

= 1 MHz (1 GHz ~ 10th harmonic)

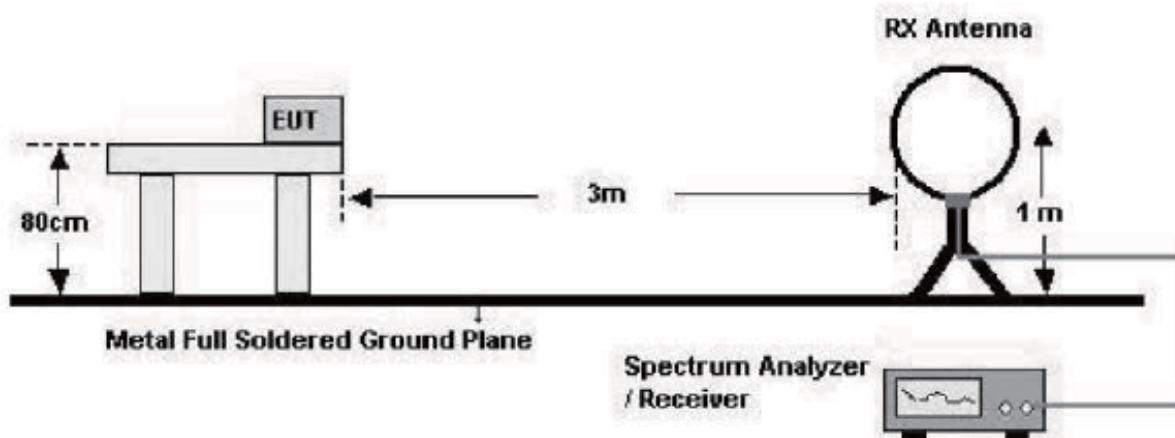
Span = 100 MHz

Detector function = peak

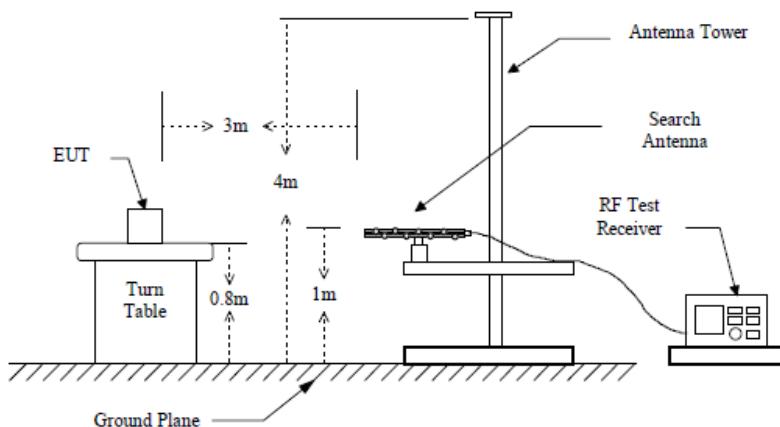
Trace = max hold

Sweep = auto

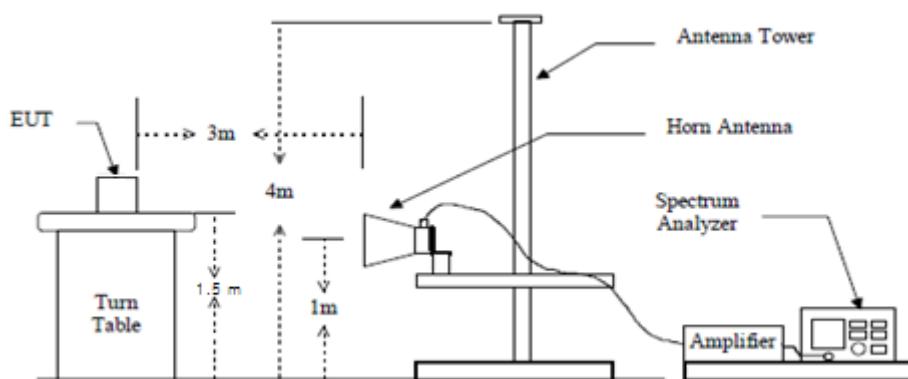
below 30 MHz



below 1 GHz (30 MHz to 1 GHz)



above 1 GHz



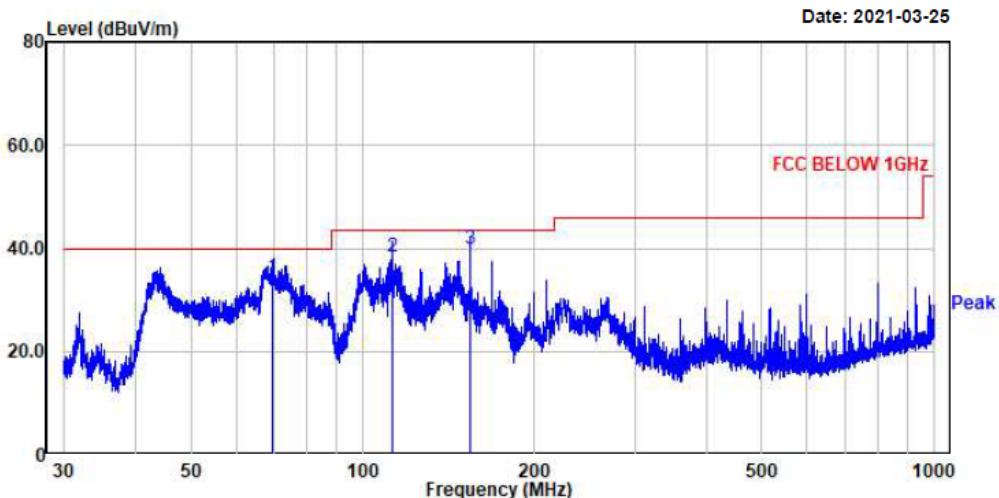
Measurement Data: Complies

- 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.

Minimum Standard: FCC Part 15.209(a)

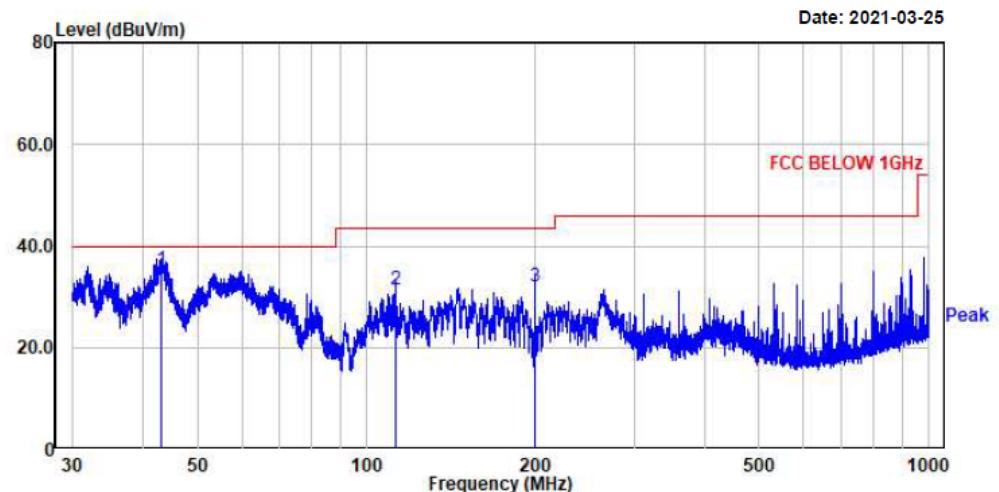
Frequency (MHz)	Limit (uV/m) @ 3m
0.009 ~ 0.490	2400/F(kHz) (@ 300m)
0.490 ~ 1.705	24000/F(kHz) (@ 30m)
1.705 ~ 30	30(@ 30m)
30 ~ 88	100 **
88 ~ 216	150 **
216 ~ 960	200 **
Above 960	500

** 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 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

Radiated Emissions (Below 1 GHz) – BDR mode

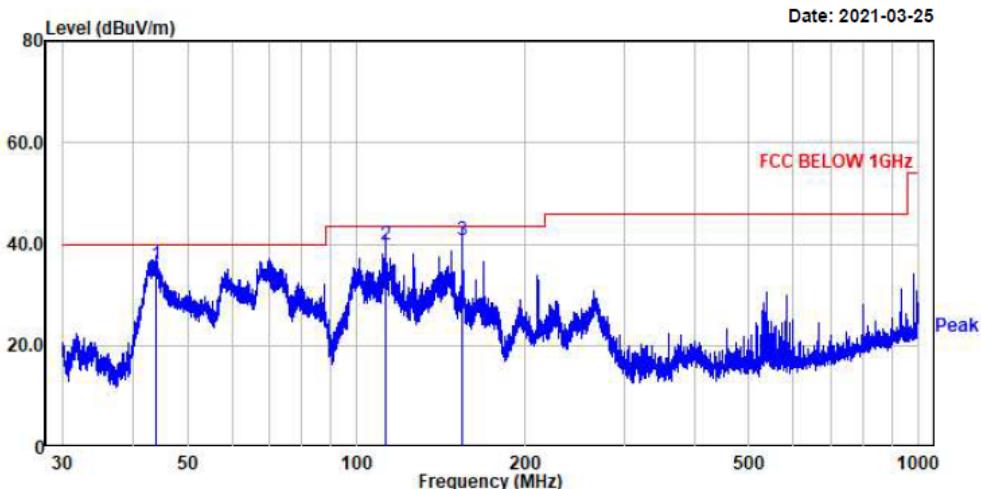
No.	Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	69.45	55.85	-21.38	34.47	40.00	5.53	400	0	horizontal
2.	112.57	59.09	-20.73	38.36	43.50	5.14	138	360	horizontal
3.	154.14	57.99	-18.12	39.87	43.50	3.63	100	214	horizontal

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



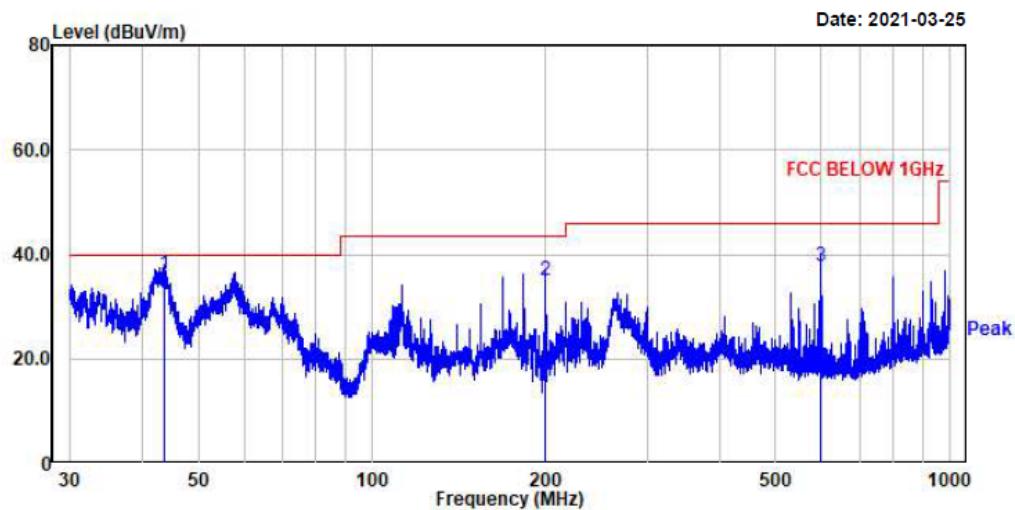
No.	Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	43.01	55.22	-19.85	35.37	40.00	4.63	100	78	vertical
2.	112.57	52.03	-20.73	31.30	43.50	12.20	100	228	vertical
3.	199.46	53.14	-21.10	32.04	43.50	11.46	100	277	vertical

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

Radiated Emissions (Below 1 GHz) – EDR mode

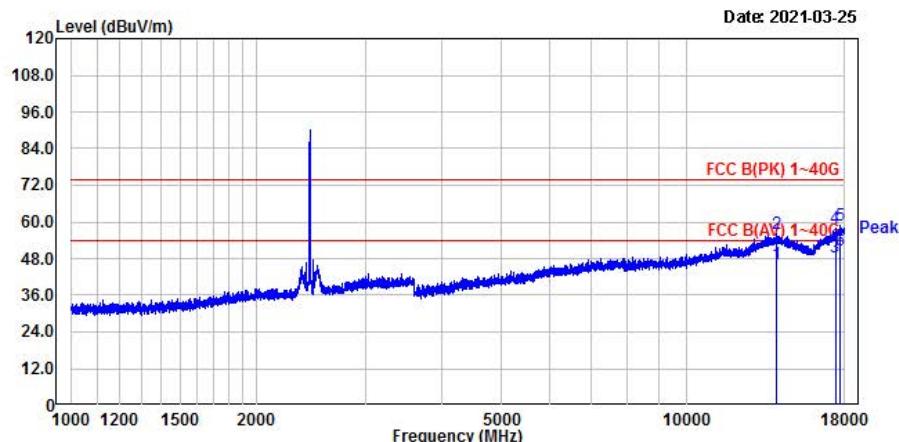
No.	Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	43.97	55.51	-19.72	35.79	40.00	4.21	400	360	horizontal
2.	112.57	60.49	-20.73	39.76	43.50	3.74	158	360	horizontal
3.	154.21	58.97	-18.12	40.85	43.50	2.65	100	230	horizontal

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



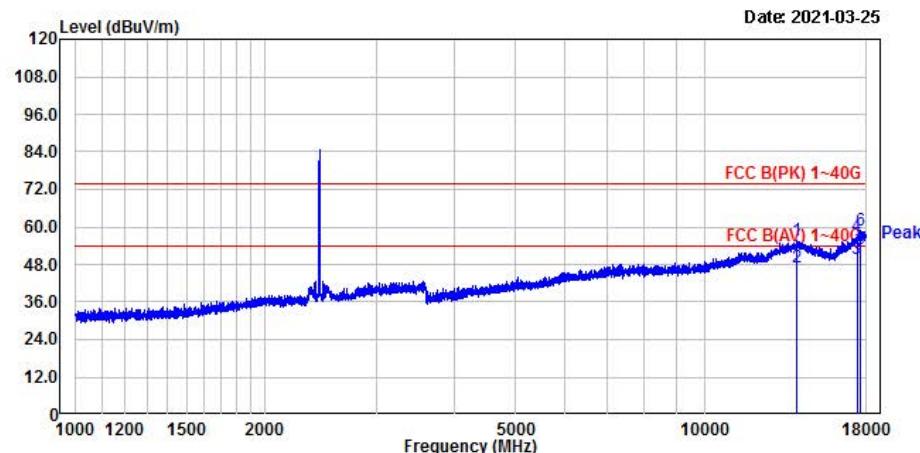
No.	Freq	Reading	C.F	Result QP	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	43.72	55.91	-19.76	36.15	40.00	3.85	100	81	vertical
2.	199.81	56.01	-21.12	34.89	43.50	8.61	100	360	vertical
3.	600.11	47.39	-9.54	37.85	46.00	8.15	100	263	vertical

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

Radiated Emissions (Above 1 GHz) – BDR mode

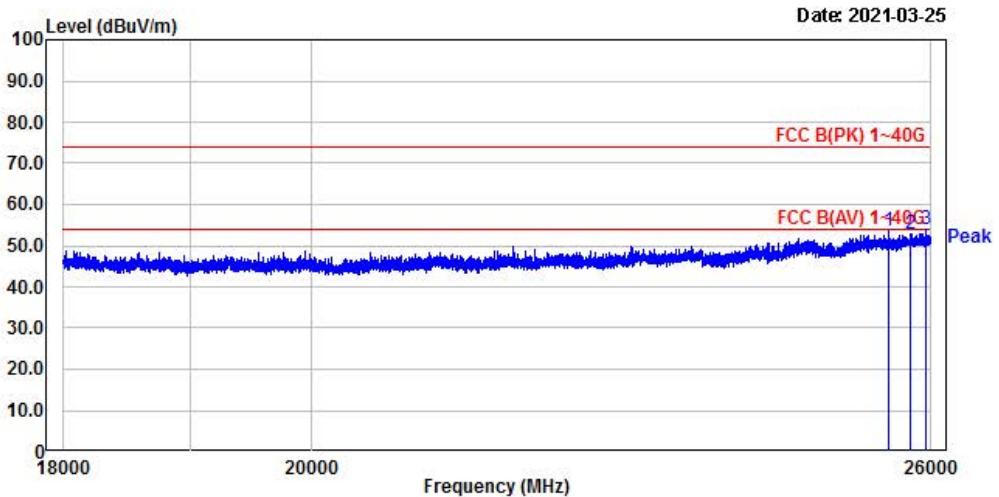
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.13997.93	31.75	14.53	46.28	54.00	7.72	100	133	horizontal	
2.13997.93	41.50	14.53	56.03	74.00	17.97	100	133	horizontal	
3.17424.11	32.28	16.20	48.48	54.00	5.52	100	178	horizontal	
4.17424.11	41.54	16.20	57.74	74.00	16.26	100	178	horizontal	
5.17735.33	41.85	16.93	58.78	74.00	15.22	100	328	horizontal	
6.17735.33	33.95	16.93	50.88	54.00	3.12	100	328	horizontal	

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



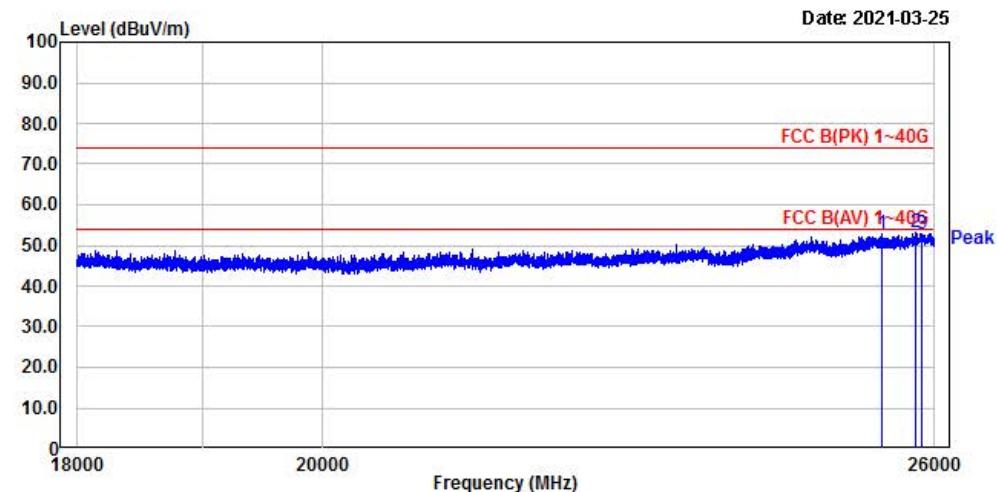
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.14013.11	41.21	14.49	55.70	74.00	18.38	100	86	vertical	
2.14013.11	32.71	14.49	47.20	54.00	6.80	100	86	vertical	
3.17424.11	33.74	16.20	49.94	54.00	4.06	100	360	vertical	
4.17424.11	40.93	16.20	57.13	74.00	16.87	100	360	vertical	
5.17690.53	36.08	16.87	52.95	54.00	1.05	100	147	vertical	
6.17690.53	42.19	16.87	59.06	74.00	14.94	100	147	vertical	

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



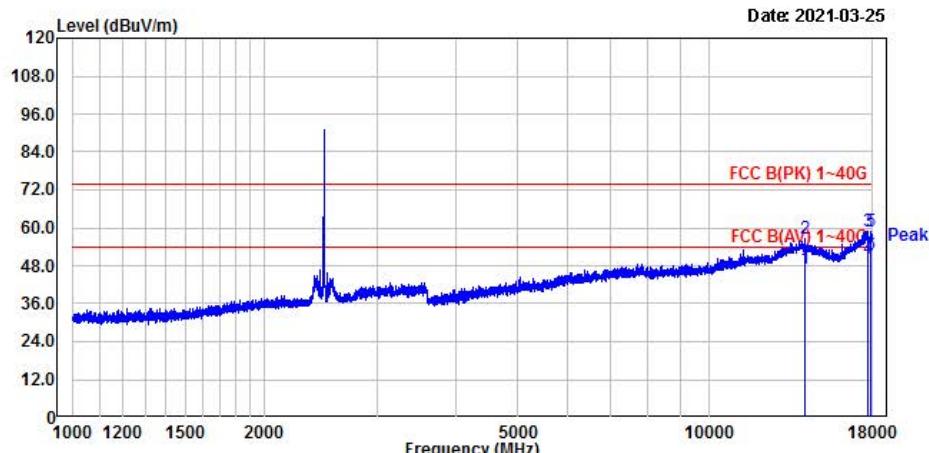
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	25538.06	35.35	18.14	53.49	74.00	20.51	100	351	horizontal
2.	25781.03	34.55	18.26	52.81	74.00	21.19	100	160	horizontal
3.	25959.40	35.76	18.19	53.95	74.00	20.05	100	74	horizontal

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



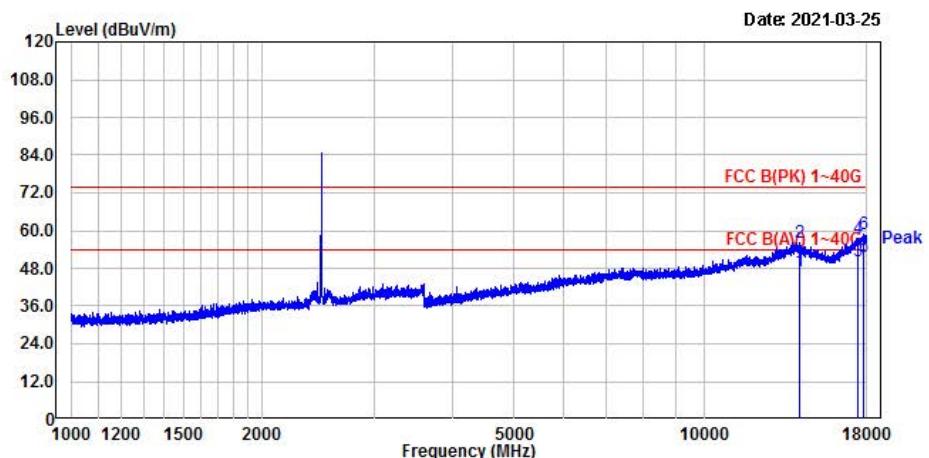
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	25423.28	34.90	17.90	52.80	74.00	21.20	100	360	vertical
2.	25804.74	34.81	18.28	53.09	74.00	20.91	100	360	vertical
3.	25867.68	34.72	18.22	52.94	74.00	21.06	100	326	vertical

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

Radiated Emissions (Above 1 GHz) – EDR mode

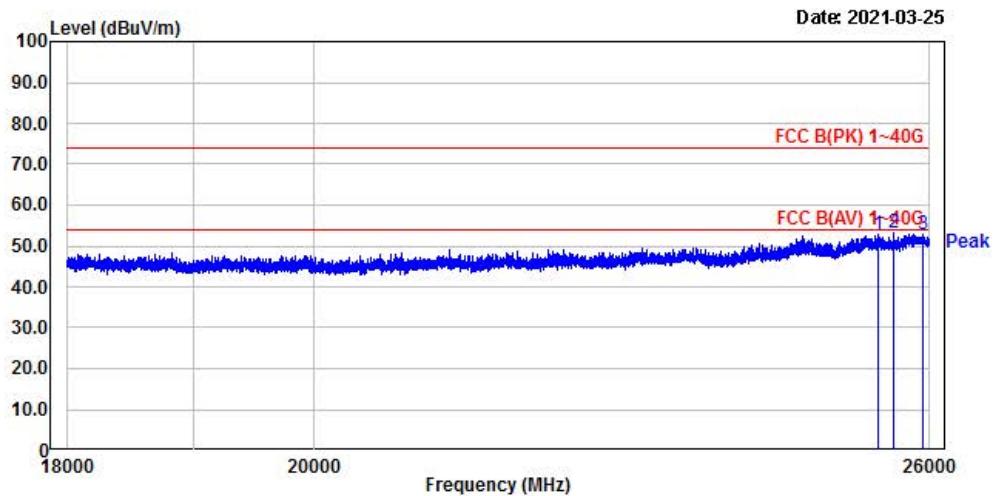
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	1.14155.59	32.91	14.14	47.05	54.00	6.95	100	274	horizontal
2.	1.14155.59	42.30	14.14	56.44	74.00	17.56	100	274	horizontal
3.	1.17741.74	42.01	16.94	58.95	74.00	15.05	100	142	horizontal
4.	1.17741.74	33.37	16.94	50.31	54.00	3.69	100	142	horizontal
5.	1.17896.25	41.84	17.21	59.05	74.00	14.95	100	284	horizontal
6.	1.17896.25	34.39	17.21	51.60	54.00	2.40	100	284	horizontal

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



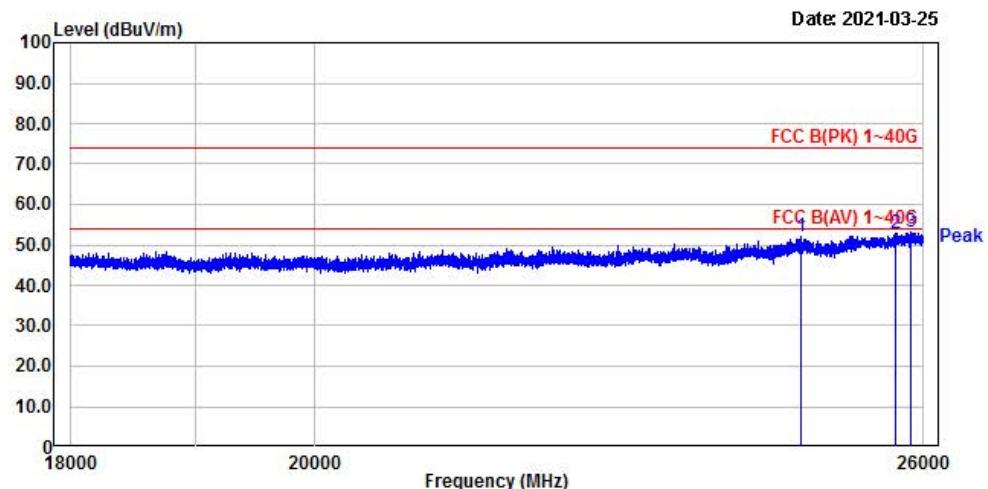
No.	Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
	MHz	dB μ V	dB	dB μ V/m	dB μ V/m	dB	cm	deg	
1.	1.14155.59	32.86	14.14	47.00	54.00	7.00	100	360	vertical
2.	1.14155.59	42.08	14.14	56.22	74.00	17.78	100	360	vertical
3.	1.17506.14	33.77	16.55	50.32	54.00	3.68	100	313	vertical
4.	1.17506.14	40.80	16.55	57.35	74.00	16.65	100	313	vertical
5.	1.17793.09	34.38	17.04	51.42	54.00	2.58	100	181	vertical
6.	1.17793.09	41.61	17.04	58.65	74.00	15.35	100	181	vertical

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



No.	Freq MHz	Reading dB μ V	C.F dB	Result QP dB μ V/m	Limit dB μ V/m	Margin dB	Height cm	Angle deg	Polarity
1.	25445.49	34.92	17.99	52.91	74.00	21.09	100	0	horizontal
2.	25619.19	35.10	18.10	53.20	74.00	20.80	100	260	horizontal
3.	25942.70	34.83	18.19	53.02	74.00	20.98	100	12	horizontal

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



No.	Freq MHz	Reading dB μ V	C.F dB	Result QP dB μ V/m	Limit dB μ V/m	Margin dB	Height cm	Angle deg	Polarity
1.	24673.79	35.00	17.10	52.10	74.00	21.90	100	141	vertical
2.	25689.94	34.59	18.18	52.77	74.00	21.23	100	3	vertical
3.	25867.68	35.15	18.22	53.37	74.00	20.63	100	0	vertical

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

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.

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

Measurement Data: N/A

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

APPENDIX
TEST EQUIPMENT USED FOR TESTS

Use	Description	Model No.	Serial No.	Manufacturer	Interval	Next Cal. Date
1	■ Signal Analyzer (9 kHz ~ 30 GHz)	FSV30	100757	R&S	1 year	2021-09-06
2	■ Signal Generator (~3.2 GHz)	8648C	3623A02597	HP	1 year	2022-03-20
3	SYNTHESIZED CW GENERATOR	83711B	US34490456	HP	1 year	2022-03-20
4	Attenuator (3 dB)	8491A	37822	HP	1 year	2021-09-06
5	Attenuator (10 dB)	8491A	63196	HP	1 year	2021-09-06
6	■ EMI Test Receiver (~7 GHz)	ESCI7	100722	R&S	1 year	2021-09-06
7	RF Amplifier (~1.3 GHz)	8447D OPT 010	2944A07684	HP	1 year	2021-09-06
8	■ RF Amplifier (1~26.5 GHz)	8449B	3008A02126	HP	1 year	2022-03-15
9	■ Horn Antenna (1~18 GHz)	3115	00114105	ETS	2 year	2021-09-17
10	■ DRG Horn (Small)	3116B	81109	ETS-Lindgren	2 year	2022-05-12
11	DRG Horn (Small)	3116B	133350	ETS-Lindgren	2 year	2022-05-12
12	■ TRILOG Antenna	VULB 9160	9160-3237	SCHWARZBECK	2 year	2022-05-12
13	Temp.Humidity Data Logger	SK-L200TH II A	00801	SATO	1 year	2022-03-20
14	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
15	■ DC Power Supply	6674A	3637A01657	Agilent	-	-
17	■ Power Meter	EPM-441A	GB32481702	HP	1 year	2022-03-20
18	■ Power Sensor	8481A	3318A94972	HP	1 year	2021-09-06
19	Audio Analyzer	8903B	3729A18901	HP	1 year	2021-09-06
20	Modulation Analyzer	8901B	3749A05878	HP	1 year	2021-09-06
21	TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2021-09-06
22	Stop Watch	HS-3	812Q08R	CASIO	2 year	2023-03-20
23	LISN	KNW-407	8-1430-1	Kyoritsu	1 year	2021-09-06
24	Two-Lime V-Network	ESH3-Z5	893045/017	R&S	1 year	2022-03-20
25	UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	1 year	2022-03-20
26	Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	1 year	2022-03-20
27	Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	1 year	2022-03-20
28	OSP120 BASE UNIT	OSP120	101230	R&S	1 year	2022-03-20
29	Signal Generator(100 kHz ~ 40 GHz)	SMB100A03	177621	R&S	1 year	2022-03-20
30	Signal Analyzer (10 Hz ~ 40 GHz)	FSV40	101367	R&S	1 year	2022-03-20
31	Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	2 year	2023-03-20