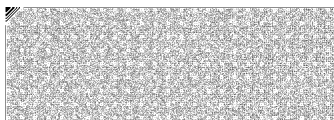




# TEST REPORT

	<b>Dt&amp;C Co., Ltd.</b> 42, Yurim-ro, 154 beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel : 031-321-2664, Fax : 031-321-1664				
<p>1. Report No : DREKFCC2411-0137(1)</p> <p>2. Customer</p> <ul style="list-style-type: none"> <li>Name : ROZETATECH CO.,LTD</li> <li>Address : B-1710, Woorim Lionsvalley2, 14, Sagimakgol-ro, 45beon-gil, Jungwon-gu, Seomnam-si, Gyeonggi-do, South Korea</li> </ul> <p>3. Use of Report : FCC Certificaion</p> <p>4. Product Name / Model Name : Wireless lot Heat Detector / FDT-420SH (FCC ID : 2BKAH-FDT-420SH)</p> <p>5. Test Method Used : ANSI C63.4:2014 FCC Part 15 Subpart B (All other devices)</p> <p>6. Date of Test : Aug. 14. 2024</p> <p>7. Location of Test : <input checked="" type="checkbox"/> Permanent Testing Lab <input type="checkbox"/> On Site Testing (Address : Refer to the attached)</p> <p>8. Testing Environment : Temperature 23 °C , Humidity 54 % R.H.</p> <p>9. Test Result : Refer to the attached Test Result</p> <p>The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This laboratory is not accredited for the test results marked. " * "</p> <table border="1"> <tr> <td>Affirmation</td> <td>           Tested by            Name : JongHwan Choi (Signature)         </td> <td>           Technical Manager            Name : JunHo Park (Signature)         </td> </tr> </table> <p>The above test report is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.</p> <p style="text-align: center;"><b>Nov. 07. 2024</b></p> <p style="text-align: center;"><b>Dt&amp;C Co., Ltd.</b> Accredited by KOLAS, Republic of KOREA</p>			Affirmation	Tested by Name : JongHwan Choi (Signature)	Technical Manager Name : JunHo Park (Signature)
Affirmation	Tested by Name : JongHwan Choi (Signature)	Technical Manager Name : JunHo Park (Signature)			

If this report is required to confirmation of authenticity, please contact to [report@dtnc.net](mailto:report@dtnc.net)



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Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



## 1. General Remarks

This report contains the result of tests performed by :

### Dt&C Co., Ltd.

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

<http://www.dtcn.net>

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

## 2. Test Laboratory

### Address of Laboratory

<input type="checkbox"/>	Branch site	42, Yurim-ro 154 beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
<input type="checkbox"/>	Satellite facilities-1	46, Yurim-ro 154 beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
<input checked="" type="checkbox"/>	Satellite facilities-2	38, Yurim-ro 154 beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
<input type="checkbox"/>	Satellite facilities-3	28, Baengnyeong-ro 20 beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea

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 <sup>rd</sup> , Oct, 2018	-
Site Filing	USA	FCC	KR0034	Designation
	Canada	IC	KR0034	Designation
	Japan	VCCI	C-11427, R-13385, R-14076, R-14180, R-14496, T-11442, G-10338, G-10754, G-10815, G-20051	Registered
Certification	Korea	KC	KR0034	Designation
	Germany	TUV	CARAT 089112 0011 Rev.00	ISO/IEC 17025
	Russia	RMRS	22.03.01.01196.296	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".





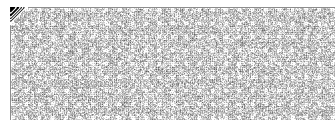
Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



### 3. General Information of EUT

Applicant	ROZETATECH CO.,LTD B-1710, Woorim Lionsvalley2, 14, Sagimakgol-ro, 45beon-gil, Jungwon-gu, Seomnam-si, Gyeonggi-do, South Korea
Manufacturer	ROZETATECH CO.,LTD B-1710, Woorim Lionsvalley2, 14, Sagimakgol-ro, 45beon-gil, Jungwon-gu, Seomnam-si, Gyeonggi-do, South Korea
Product Name	Wireless lot Heat Detector
Model Name	FDT-420SH
Add Model Name	FDT-421SH, FDT-420SD
Add Model Difference	Added simple derivative model names based on sales location distinction
Software Version	FDT-420SH-V01
Hardware Version	FDT-420SH-V01
Maximum Internal Frequency	32 MHz
Classification	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B
Rated Power	DC 3 V
FCC ID	2BKAH-FDT-420SH
RF Module Name	None
Remarks	[Wireless Frequency] - GFSK : (433.0650 ~ 434.5900) MHz * The terminal port inside the EUT is excluded from the test as a port for the administrator.

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



## 4. EUT Operations and Test Configurations

### 4.1 Principle of Configuration Selection

#### Emission :

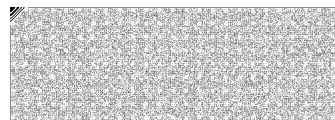
The equipment under test (EUT) was configured to measure its highest possible radiation level.  
 The test modes were adapted accordingly in reference to the instructions for use.  
 For each testing mode different configurations were used,  
 Refer to the individual tests.

### 4.2 EUT Operation Mode

No.	Mode	Description
1	Normal Operating	With all detector functions activated, The EUT communicates with the applicant's JIG and wireless (433.05 ~ 434.79 MHz) to check the operation status.

### 4.3 Test Configuration Mode

No.	Mode	Description
1	Normal Operating	The EUT is equipped with an internal battery.





#### 4.4 Supported Equipment

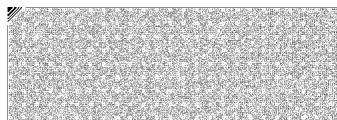
Used*	Product Type	Manufacturer	Model	Serial number	Remarks
AE	Laptop	HP	HS1NN-Q95C	N/A	-
AE	Adapter(Laptop)	I.T.E POWER SUPPLY	HSTNN-LA40	N/A	-
AE	JIG	rozetatech co.,ltd	N/A	N/A	-
*Abbreviations: AE - Auxiliary/Associated Equipment, or SIM - Simulator					

#### 4.5 EUT In/Output Port

Name	Type*	Cable Max. >3 m	Cable Shielded	Cable Back shell	Remarks
-	-	-	-	-	-
*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	DC 3	-	-	Battery



## 5. Test Summary

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4 : 2014	N/A (Note 1)
Radiated Disturbance	ANSI C63.4 : 2014	C
Antenna Power Conduction	ANSI C63.4:2014	N/A (Note 2)
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		
Note 1) The EUT is a device that uses an internal battery and is excluded from the test.		
Note 2) This test was not required because EUT has not port about this test.		

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

Measurement Uncertainty	
Test Items	$U(k=2)$
Conducted Disturbance (9 kHz~ 30 MHz)	Mains : 3.6 dB Signal : 6.0 dB
Conducted Disturbance (150 kHz ~ 30 MHz)	Mains : 3.4 dB Signal : 6.0 dB
Radiated Disturbance (3m)	Below 1 GHz : 5.82 dB Above 1 GHz : 7.2 dB
Radiated Disturbance (10m)	Below 1 GHz : 5.8 dB
Antenna Power Conduction	N/A

- Conducted Disturbance

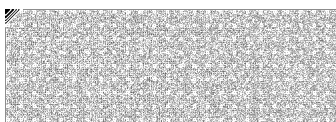
Frequency [MHz]	Pol.	Result [dB $\mu$ V/m]	Detector	Limit [dB $\mu$ V/m]	Margin [dB]
-	-	-	-	-	-

-Radiated Disturbance

Frequency [MHz]	Pol.	Result [dB $\mu$ V/m]	Detector	Limit [dB $\mu$ V/m]	Margin [dB]
62.980	V	35.97	Quasi - Peak	40.00	4.03

-Antenna Power Conduction

Frequency [MHz]	Result [dB $\mu$ V/m]	Detector	Limit [dB $\mu$ V/m]	Margin [dB]
-	-	-	-	-



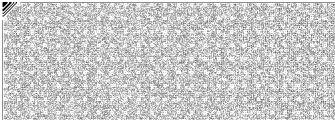
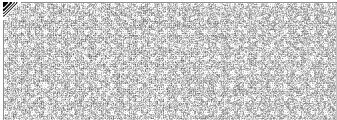


Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



6. Test Environment

Test Items	Test date (YYYY-MM-DD)	Temp. (°C)	Humidity (% R.H.)	Pressure (kPa)
Radiated Disturbance	2024-08-14	23	54	-





## 7. Test Results : Emission

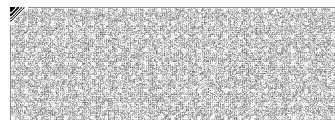
### 7.1 Conducted Disturbance

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.				Not Applicable	
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		N/A		
	EUT Operation mode		N/A		
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 Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
-	-	-	-	-	-

#### Calculation

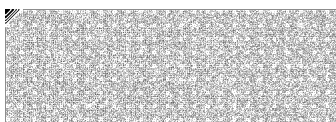
N : Neutral phase, L1 : Live phase
C.FACTOR(dB) : Pulse Limiter(dB) + Cable loss(dB) + Insertion loss of LISN(dB)
Result(dB $\mu$ V) : Reading Value(dB $\mu$ V) + C.FACTOR(dB)
Margin(dB) : Limit(dB $\mu$ V) - Result(dB $\mu$ V)

Mains terminal disturbance voltage _ Measurement data			
Test configuration mode	N/A	EUT Operation mode	N/A
Test voltage (V)	N/A	Test Frequency (Hz)	N/A



## 7.2 Radiated Disturbance

ANSI C63.4	Radiated disturbance 30 MHz – 6 GHz**			Result
<u>Method:</u> Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 or 3 meter below 1GHz and 3 meter above 1GHz. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in horizontal and vertical polarities. Final measurements were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4 m. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable. For final measurement below 1 GHz frequency range, Quasi-Peak detector with (RBW = 120 kHz Bandwidth) was used. For final measurement above 1 GHz frequency range, Peak detector with (RBW = 1 MHz Bandwidth) and CISPR Average detector with (RBW = 1 MHz Bandwidth) were used.				Comply
EUT mode (Refer to clauses 4)	Test configuration mode		1	
	EUT Operation mode		1	
Radiated Disturbance below 1 000 MHz				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A		Class B	
	3 m distance	10 m distance	3 m distance	
30 to 88	49.1	39.1	40	
88 to 216	53.5	43.5	43.5	
216 to 960	56.4	46.4	46	
960 to 1 000	59.5	49.5	54	
According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22 shown.				
Frequency range (MHz)	Quasi-peak limit dBµV/m			
	Class A (10 m distance)		Class B (10 m distance)	
	30 to 230		30	
230 to 1 000		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		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			5th harmonic of the highest frequency or 40 GHz, whichever is lower	





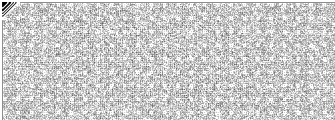
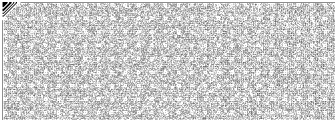
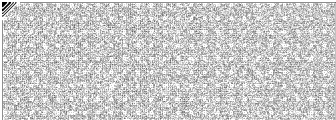
Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



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	ESW44	ROHDE&SCHWARZ	101645	2023.11.23	2024.11.22
TRILOG BROADBAND TEST-ANTENNA	VULB9160	SCHWARZBECK	9160-3363	2022.09.29	2024.09.28
LOW NOISE PRE AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2024.02.14	2025.02.13
6 DB ATTENUATOR	2708A	HP	23831	2022.09.29	2024.09.28
PRE AMPLIFIER	8449B	H.P	3008A00887	2023.08.23	2024.08.22
BROAD-BAND HORN ANTENNA	BBHA 9120D	SCHWARZBECK	9120D-1014	2024.07.31	2025.07.30
CABLE	CRE01_9KHZ-1GHZ	Dt&C	R3(13)	2023.12.15	2024.12.14
CABLE	CRE02_9KHZ-1GHZ	Dt&C	R3(23)	2023.12.11	2024.12.10
CABLE	CRE03_9KHZ-1GHZ	Dt&C	R3(33)	2023.12.11	2024.12.10
CABLE	C1_ANT TO BOTTOM_3M_1-18G	Dt&C	#27	2024.01.02	2025.01.01
CABLE	C2_BOTTOM TO AMP(FILTER,RECEIVE R)_3M_1-18G	Dt&C	#28	2023.09.15	2024.09.14
CABLE	C3_AMP TO RECEIVER_3M_1-18G	Dt&C	#29	2023.09.15	2024.09.14
(NOTE : THE MEASUREMENT ANTENNAS WERE CALIBRATED IN ACCORDANCE TO THE REQUIREMENTS OF C63.5-2017.)					

Calculation

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





Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



Radiated disturbance at (30 ~ 1 000) MHz _ Measurement data			
Test configuration mode	1	EUT Operation mode	1
Test voltage (V)	Battery	Test Frequency (Hz)	-

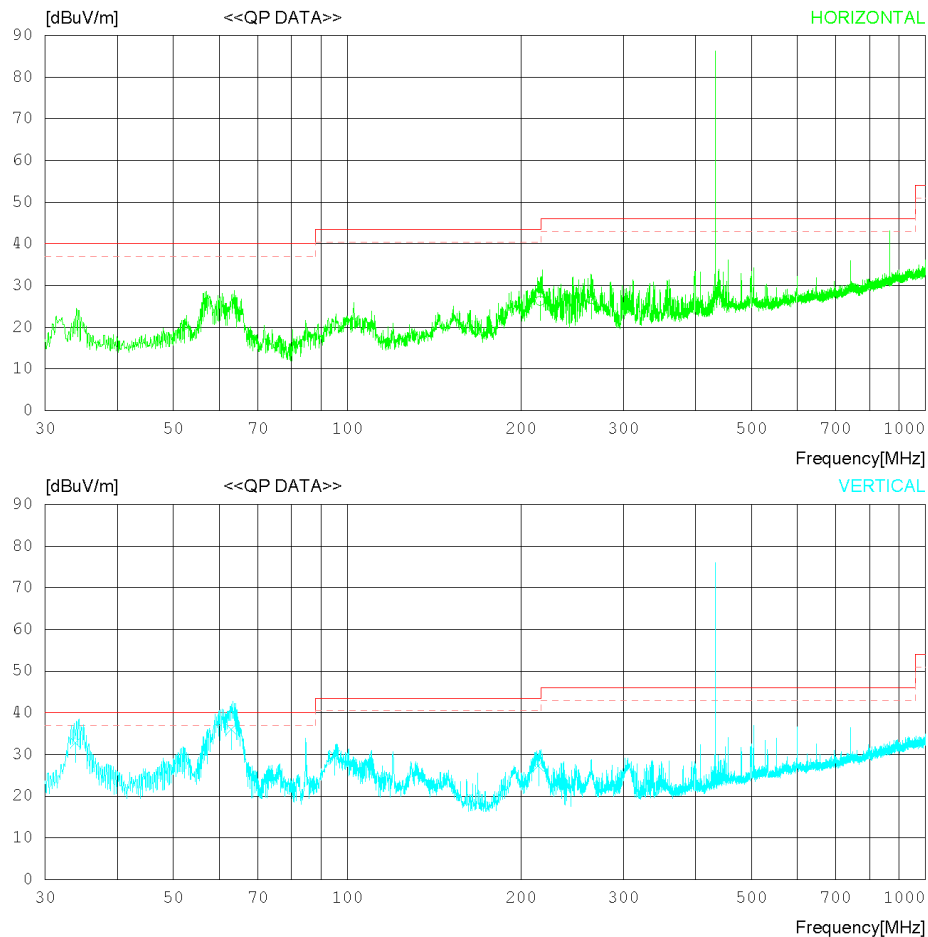
Date 2024-08-14

Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 'C 54 % R.H.  
Test Condition N/A

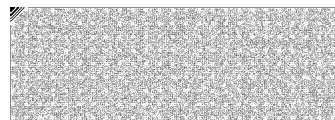
Memo

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

Antenna Factor  
1. ANT\_EMC-309\_VULB9160\_3363\_with ATT\_2022-09-29  
Cable Loss  
1. R3(13)\_CRE01\_9kHz-1GHz\_2023-12-15  
2. R3(23)\_CRE02\_9kHz-1GHz\_2023-12-11  
3. R3(33)\_CRE03\_9kHz-1GHz\_2023-12-11  
Pre Amp Gain  
1. EMC-110\_AMP\_MLA-100K01-B01-26\_1252741\_2024.02.14



\* Remark : (433.0650 ~ 434.5900) MHz is GFSK frequency.





Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



Date 2024-08-14

Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 'C 54 % R.H.  
Test Condition N/A

Memo

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

Antenna Factor  
1. ANT\_EMC-309\_VULB9160\_3363\_with ATT\_2022-09-29  
Cable Loss  
1. R3(13)\_CRE01\_9kHz-1GHz\_2023-12-15  
2. R3(23)\_CRE02\_9kHz-1GHz\_2023-12-11  
3. R3(33)\_CRE03\_9kHz-1GHz\_2023-12-11  
Pre Amp Gain  
1. EMC-110\_AMP\_MLA-100K01-B01-26\_1252741\_2024.02.14

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	215.387	34.20	15.82	3.03	26.71	26.34	43.50	17.16	358	214
2	264.249	31.90	17.97	3.39	26.53	26.73	46.00	19.27	100	149
----- VERTICAL -----										
3	33.880	41.20	17.01	1.15	26.60	32.76	40.00	7.24	112	115
4	62.980	43.60	17.40	1.60	26.63	35.97	40.00	4.03	125	4
5	94.989	40.70	13.80	1.96	26.69	29.77	43.50	13.73	148	290
6	214.053	35.20	15.76	3.02	26.72	27.26	43.50	16.24	158	25







Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



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

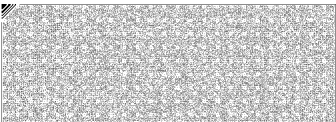
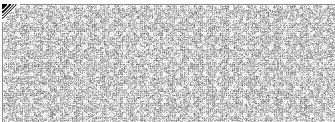
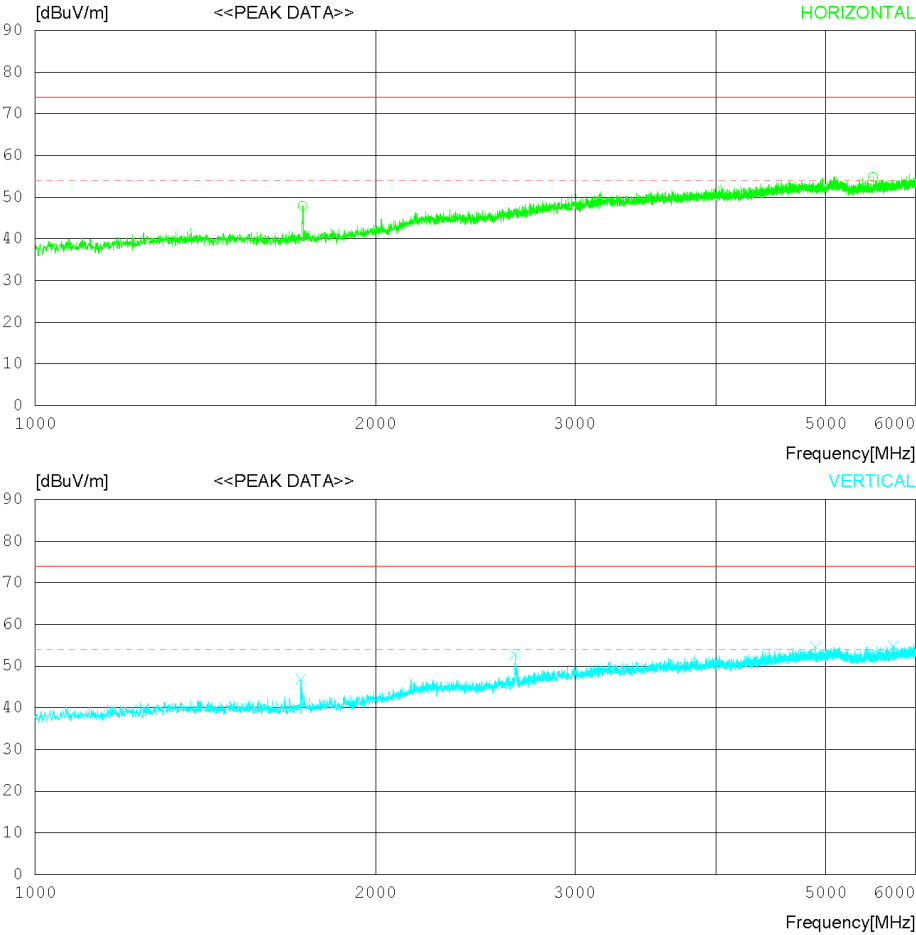
Date 2024-08-14

Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 'C 54 % R.H.  
Test Condition N/A

Memo

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

Antenna Factor  
1. EMC-299\_3117\_00152093\_2024.03.15  
Cable Loss  
1. #27\_C1\_Ant to Bottom\_3m\_1-18G\_2024-01-02  
2. #28\_C2\_Bottom to Amp(Filter,Receiver)\_3m\_1-18G\_2023-09-15  
3. #29\_C3\_Amp to Receiver\_3m\_1-18G\_2023-09-15  
Pre Amp Gain  
1. AMP\_8449B\_3008A00887\_2023.08.23





Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



Date 2024-08-14

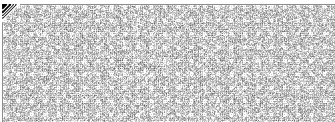
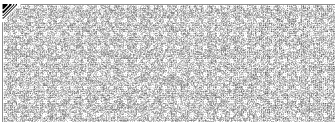
Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 °C 54 % R.H.  
Test Condition N/A

Memo

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

Antenna Factor  
1. EMC-299\_3117\_00152093\_2024.03.15  
Cable Loss  
1. #27\_C1\_Ant to Bottom\_3m\_1-18G\_2024-01-02  
2. #28\_C2\_Bottom to Amp(Filter,Receiver)\_3m\_1-18G\_2023-09-15  
3. #29\_C3\_Amp to Receiver\_3m\_1-18G\_2023-09-15  
Pre Amp Gain  
1. AMP\_8449B\_3008A00887\_2023.08.23

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	1723.750	49.50	25.20	8.46	35.28	47.88	74.0	26.12	325	0
2	5502.500	42.30	31.70	15.47	34.60	54.87	74.0	19.13	258	9
----- VERTICAL -----										
3	1716.875	48.60	25.17	8.44	35.28	46.93	74.0	27.07	354	239
4	2655.625	47.70	27.81	12.15	34.87	52.79	74.0	21.21	115	353
5	4896.875	42.40	31.39	15.33	34.48	54.64	74.0	19.36	125	245
6	5735.000	42.00	31.94	15.52	34.65	54.81	74.0	19.19	114	67





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

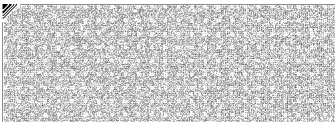
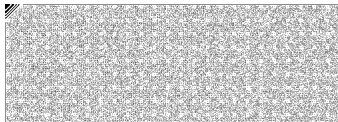
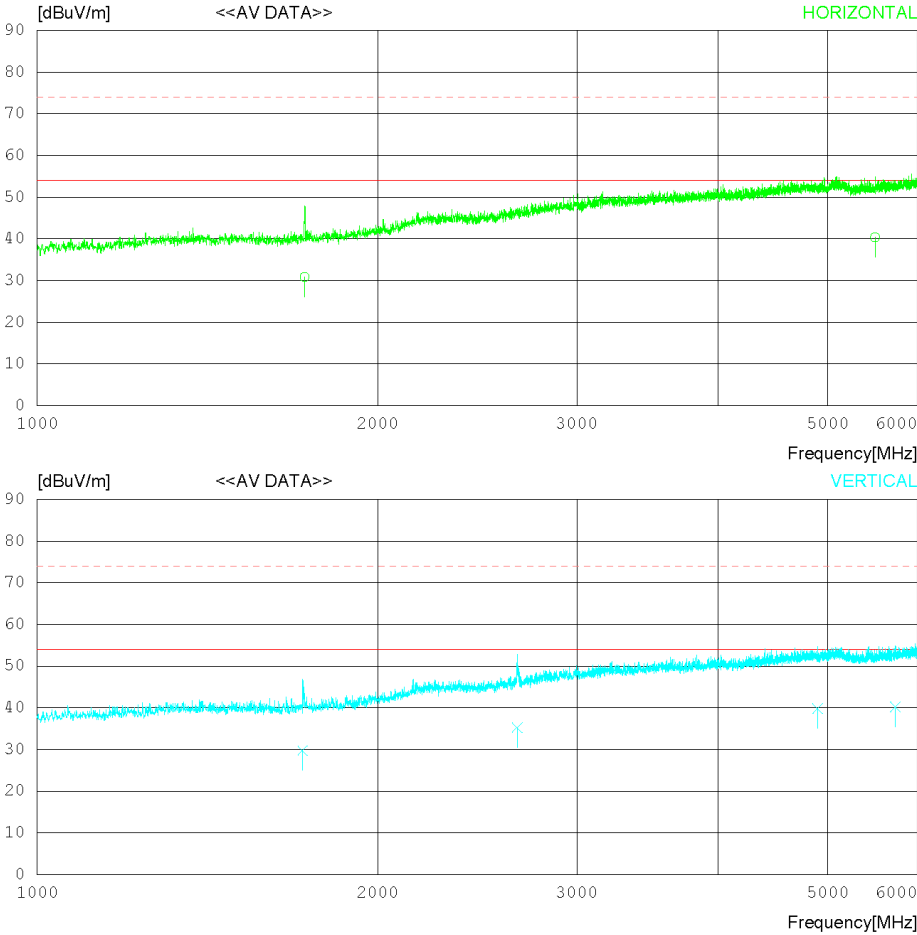
Date 2024-08-14

Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 'C 54 % R.H.  
Test Condition N/A

Memo

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

Antenna Factor  
1. EMC-299\_3117\_00152093\_2024.03.15  
Cable Loss  
1. #27\_C1\_Ant to Bottom\_3m\_1-18G\_2024-01-02  
2. #28\_C2\_Bottom to Amp(Filter,Receiver)\_3m\_1-18G\_2023-09-15  
3. #29\_C3\_Amp to Receiver\_3m\_1-18G\_2023-09-15  
Pre Amp Gain  
1. AMP\_8449B\_3008A00887\_2023.08.23





Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



Date 2024-08-14

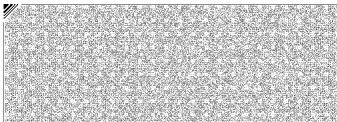
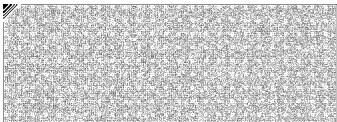
Order No. DTNC2408-06133  
Power Supply Battery  
Temp/Humi 23 'C 54 % R.H.  
Test Condition N/A

Memo

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

Antenna Factor  
1. EMC-299\_3117\_00152093\_2024.03.15  
Cable Loss  
1. #27\_C1\_Ant to Bottom\_3m\_1-18G\_2024-01-02  
2. #28\_C2\_Bottom to Amp(Filter,Receiver)\_3m\_1-18G\_2023-09-15  
3. #29\_C3\_Amp to Receiver\_3m\_1-18G\_2023-09-15  
Pre Amp Gain  
1. AMP\_8449B\_3008A00887\_2023.08.23

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	1723.254	32.50	25.19	8.46	35.28	30.87	54.00	23.13	328	53
2	5502.650	27.80	31.70	15.47	34.60	40.37	54.00	13.63	221	41
----- VERTICAL -----										
3	1716.735	31.40	25.17	8.44	35.28	29.73	54.00	24.27	314	114
4	2655.785	30.10	27.81	12.15	34.87	35.19	54.00	18.81	125	228
5	4896.132	27.60	31.39	15.33	34.48	39.84	54.00	14.16	132	18
6	5735.465	27.40	31.94	15.52	34.65	40.21	54.00	13.79	141	25





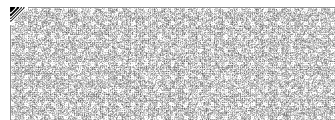
Report No.: DREKFCC2411-0137(1)  
(FCC ID : 2BKAH-FDT-420SH)



### 7.3 Antenna Power Conduction

ANSI C63.4	Antenna power conduction	Result
<p><u>Method:</u> Power on the receive antenna terminals was to be determined by measurement of the voltage present at these terminals. Antenna conducted power measurements was performed with the EUT antenna terminals connected directly to measuring instrument using a impedance-Matching network to connect the measurement Instrument to the antenna terminals of the EUT. The losses in decibels in impedance-matching network and cables was added to the measured values in dBμV. The measurements were repeated with the receiver tuned to a frequency until all of frequencies had been successively measured. Power in the receive antenna terminals in the ratio of <math>V^2/R</math>, where V is the loss-corrected voltage measured at the antenna terminals, and R is the impedance of the measuring instrument</p>		Not Applicable
Fully configured sample scanned over the following frequency range	Frequency range on each side of line	Limit
	30 MHz to 1 000 MHz	2 nW (50 dBμV)
	54 MHz to 300 MHz 300 MHz to 450 MHz 450 MHz to 804 MHz	-26 dBmV (34 dBμV) -20 dBmV (40 dBμV) -15 dBmV (45 dBμV)
Measurement Point	Tuner port	
EUT mode (Refer to clauses 4)	Test configuration mode	N/A
	EUT Operation mode	N/A

Measurement Instrument					
Description	Model	Manufacturer	Identifier	Cal. Date	Cal. Due
-	-	-	-	-	-





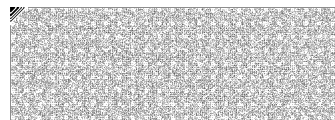
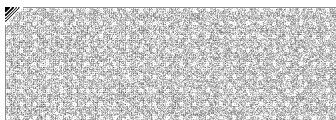


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Antenna Power Conduction _Measurement data graph			
Test configuration mode	N/A	EUT Operation mode	N/A
Test voltage (V)	N/A	Test Frequency (Hz)	N/A
N/A			

Conducted differential voltage disturbance _Measurement data list					
Test configuration mode		N/A	EUT Operation mode		N/A
Source (MHz)	Frequency (MHz)	Limit (dBμV)	Result (dBμV)	Margin (dB)	
Fundamental (≤ 1 000)	-	50	-	-	
Harmonics (30 ~ 300)	-		-	-	
Harmonics (300 ~ 1 000)	-		-	-	
Other (30 ~ 1 000)	-		-	-	





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8. Revision History

Date	Report No. (Order No.)	Description	Revised By	Reviewed By
Nov. 05. 2024	DREKFCC2411-0137 (DTNC2408-06133)	Initial report	JongHwan Choi	JunHo Park
Nov. 07. 2024	DREKFCC2411-0137(1) (DTNC2408-06133)	- Added Radiated Disturbance Test Measurement Instrument	JongHwan Choi	JunHo Park

-End of test report-

