

 Report No.: BTEK231127004AE001

 Page:
 1 of 43

 FCC ID: 2BDSV12V100

TEST REPORT

Test Result:	Pass*		
Date of Issue:	2023-12-18		
Date of Test:	2023-11-27 to 2023-12-18		
Date of Receipt:	2023-11-27		
Standard(s) :	47 CFR Part 15, Subpart C 15.247		
Trade Mark:	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. NA		
Model No.:	12.8V 100Ah Group 24, 12.8V 100Ah H190, 12.8V 100Ah, 12.8V 100Ah Mini, 12.8V 100Ah TM, 12.8V 100Ah Self-Heating, 12.8V 100Ah Smart, 12.8V100Ah Plus, 12.8V 100Ah Pro, 12.8V 100Ah Max		
EUT Name:	Litime 12.8V 100Ah Group24 LiFeP04 Lithium Battery		
Equipment Under Test (EU)	Г):		
Address of Factory:	Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong (Street, Shenzhen, China		
Factory:	Shenzhen Litime Technology Co., Ltd		
Address of Manufacturer:	Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street, Shenzhen, China		
Manufacturer:	Shenzhen Litime Technology Co., Ltd		
Address of Applicant:	Room 301, Building B, Baolong 5th Road, Baolong Community, Baolong Street, Shenzhen, China		
Applicant:	Shenzhen Litime Technology Co., Ltd		
Application No.:	BTEK231127004AE		

* In the configuration tested, the EUT complied with the standards specified above.

Damon Su

EK

Damon Su EMC Laboratory Manager





Report No.: BTEK231127004AE001 Page: 2 of 43

Revision Record					
Version Chapter Date Modifier Remark					
01		2023-12-18		Original	
	0	0	0	0	

Authorized for issue by	5 L		The second se
BTEK	Gol Farg	BTEK	
0	Carl Yang /Project Engi	neer	
	Elma. Kang		0 0
	Elma Yang /Reviewer		





Report No.: BTEK231127004AE001 Page: 3 of 43

2 Test Summary

Radio Spectrum Technical Requirement				
ltem	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	- #8-34-)))	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	N/A		
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.1.3	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Model No.: 12.8V 100Ah Group 24, 12.8V 100Ah H190, 12.8V 100Ah, 12.8V 100AhMini

12.8V 100Ah TM, 12.8V 100Ah Self-Heating, 12.8V 100Ah Smart, 12.8V100Ah Plus, 12.8V 100Ah Pro, 12.8V 100Ah Max

Only the model 12.8V 100Ah Group 24 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on model No.and product size







Report No.: BTEK231127004AE001 Page: 4 of 43

3 Contents

			Page 🔘
1	Cover Page		1
•			
2	Test Summary	0 0	3
3	Contents		4
			1
4	General Information		
	4.1 Details of E.U.T.		6
	4.2 Description of Support Units		
	4.3 Measurement Uncertainty		
	4.4 Test Location		
	4.5 Deviation from Standards4.6 Abnormalities from Standard Conditions		
5	Equipment List		8
6	Radio Spectrum Technical Requirement		10
	6.1 Antenna Requirement		
7	Radio Spectrum Matter Test Results		11
	7.1 Conducted Emissions at AC Power Line (1		
	7.1.1 E.U.T. Operation	SUKT IZ-SUIVITIZ)	
	7.2 Conducted Peak Output Power		13
	7.2.1 E.U.T. Operation	<u> </u>	13
	7.3 Minimum 6dB Bandwidth		
	7.4 Power Spectrum Density		
	· · · · · · · · · · · · · · · · · · ·		
	7.5 Conducted Band Edges Measurement		
	•		
	•		
		0.0	
	7.6 Conducted Spurious Emissions		
ner	Zhen BANTEK Testing Co. Ltd		In State

 ShenZhen BANTEK Testing Co.,Ltd.

 Add : A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street

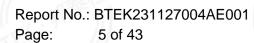
 Bao'an District, Shenzhen, Guangdong, China 518104

 Tel : +(86)755-2334 4200
 E-mail : Service@btek-lab.com

 Web : www.btek-lab.com



TEK



7.7	Radiated Emissions which fall in the restricted bands	
7.7	7.1 E.U.T. Operation	
7.7	7.2 Test Mode Description	
7.7	7.3 Test Setup Diagram	
7.7	7.4 Measurement Procedure and Data	19
7.8	Radiated Spurious Emissions (Below 1GHz)	21
7.8	8.1 E.U.T. Operation	21
7.8	8.2 Test Mode Description	21
7.8	8.3 Test Setup Diagram	21
7.8	8.4 Measurement Procedure and Data	22
7.9	Radiated Spurious Emissions (Above 1GHz)	25
7.9	9.1 E.U.T. Operation	25
7.9	9.2 Test Mode Description	
7.9	9.3 Test Setup Diagram	
7.9	9.4 Measurement Procedure and Data	27
8 Te	est Setup Photo	30
9 EL	JT Constructional Details (EUT Photos)	30
10 Ap	opendix	







Report No.: BTEK231127004AE001 Page: 6 of 43

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12.8V, 100A Max, 1280W
Test Voltage:	NA
Cable(s):	
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	Bluetooth 5.3
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.68dBi
Remark: The information in the	his section is provided by the applicant or manufacturer. BANTEK is not liable

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	\bigcirc /	/	/

4.3 Measurement Uncertainty

inductar official analy			
Test Item	Measurement Uncertainty		
Conducted Emissions at AC Power Line (150kHz- 30MHz)	±3.12dB		
Conducted Peak Output Power	± 0.75dB		
Minimum 6dB Bandwidth	± 3%		
Power Spectrum Density	± 2.84dB		
Conducted Band Edges Measurement	± 0.75dB		
Conducted Spurious Emissions	± 0.75dB		
Radiated Emissions which fall in the restricted bands	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		
Radiated Spurious Emissions (Below 1GHz)	±5.06dB (3m); ±4.46dB (10m)		
Radiated Spurious Emissions (Above 1GHz)	±5.08dB (1GHz-6GHz);±5.14dB(above 6GHz)		





Report No.: BTEK231127004AE001 Page: 7 of 43

4.4 Test Location

All tests were performed at: Shenzhen BANTEK Testing Co., Ltd. A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104 Tel: +86 0755-2334 4200 Fax: +86 0755-2334 4200 FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

4.5 Deviation from Standards None

4.6 Abnormalities from Standard Conditions None











Report No.: BTEK231127004AE001 Page: 8 of 43

5 Equipment List

Conducted Emissions at AC Mains Power Port						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	
Shielding Room	YIHENG ENECTRONIC	9*5*3.3	YH-BT-220304-04	2022-03-03	2025-03-02	
EMI Test Receiver	Rohde&Schwarz	ESCI	101021	2023-06-12	2024-06-11	
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	N/A	N/A	
LISN	Rohde&Schwarz	ENV216	101472	2023-06-12	2024-06-11	
LISN	Schwarzbeck	NSLK 8128	05127	2023-06-12	2024-06-11	

RF Conducted					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
Shielding Room	YIHENG ENECTRONIC	5.5*3.1*3	YH-BT- 220304-03	2022-03-03	2025-03-02
EXA Signal Analyzer	KEYSIGHT	N9020A	MY54230486	2023-06-12	2024-06-11
DC Power Supply	E3632A	E3642A	KR75304416	2023-06-12	2024-06-11
Attenuator	RswTech	SMA-JK-6dB	N/A	2023-06-12	2024-06-11
Attenuator	RswTech	SMA-JK-3dB	N/A	2023-06-12	2024-06-11
RF Control Unit	Techy	TR1029-1	N/A	2023-06-12	2024-06-11
RF Sensor Unit	Techy	TR1029-2	N/A	2023-06-12	2024-06-11
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	141258	2023-06-12	2024-06-11
MXG Vector Signal Generator	Agilent	N5182A	US46240522	2023-06-12	2024-06-11
Programmable Temperature&Humidity Chamber	GRT	GR-HWX1000	GR22051001	2023-06-12	2024-06-11
Measurement Software	TACHOY	RF TestSoft	N/A	N/A	N/A

RSE	The second second		1 SI	-7 <u>1</u> 1	6
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	YIHENG ENECTRONIC	966	YH-BT- 220304-01	2022-05-06	2025-05-05
EMI Test Receiver	Rohde&Schwarz	ESCI	100694	2023-06-12	2024-06-11
TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	01324	2022-06-15	2025-06-14
Pre-Amplifier	Schwarzbeck	BBV 9745	#180	2023-06-12	2024-06-11
Measurement Software	Fara	EZ_EMC Ver. FA-03A2	N/A	2023-06-12	2024-06-11
EXA Signal Analyzer	Keysight	N9020A	MY54440290	2023-06-12	2024-06-11
Horn Antenna	Schwarzbeck	BBHA 9120D	02695	2022-06-15	2025-06-14
Pre-Amplifier	Tonscend	TAP0118045	AP20K806109	2023-06-12	2024-06-11
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2022-06-15	2025-06-14
Low Noise Pre-amplifier	SKET	LNPA-1840G-	SK2022032902	2023-06-12	2024-06-11





Report No.: BTEK231127004AE001 Page: 9 of 43

		50			
Signal analyzer	ROHDE&SCHWARZ	FSQ40	100010	2023-06-12	2024-06-11
Loop Antenna	ETS	6502	00201177	2022-06-15	2025-06-14

General used equipment						
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date	
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2023-06-12	2024-06-11	
Humidity/Temperature/B arometric Pressure Indicator	KUMAR	F132	N/A	2023-06-12	2024-06-11	















Report No.: BTEK231127004AE001 Page: 10 of 43

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

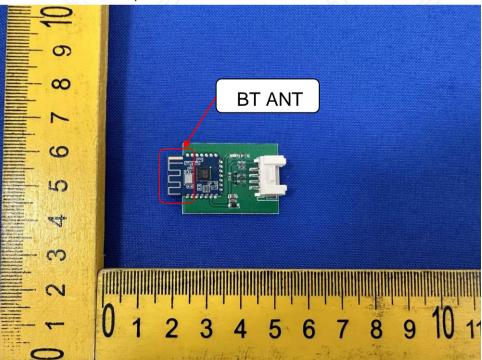
Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.68dBi.



Please refer to internal photos.





Report No.: BTEK231127004AE001 Page: 11 of 43

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement47 CFR Part 15, Subpart C 15.207Test Method:ANSI C63.10 (2013) Section 6.2

Limit:	

	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	111 .	Average		
0.15-0.5	66 to 56*	11 1	56 to 46*		
0.5-5	56	STE	46		
5-30	60	1	50		
*Decreases with the logarithm of the fr	equency.				
Detector: Peak for pre-scan (9kHz reso	olution bandwidth) 0.1	5M to 30MH	z		

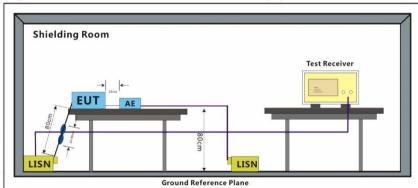
7.1.1 E.U.T. Operation

Operating Enviro	onment:					
Temperature:	22.2 °C	Humidity:	60.5 % RH	Atmospheric Pressure:	1010	mbar
0 Test Made Day						

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	Charge+TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram









Report No.: BTEK231127004AE001 Page: 12 of 43

7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $500hm/50\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Note: No applicable for the EUT.





Report No.: BTEK231127004AE001 Page: 13 of 43

7.2 Conducted Peak Output Power

 Test Requirement
 47 CFR Part 15, Subpart C 15.247(b)(3)

 Test Method:
 ANSI C63.10 (2013) Section 11.9.1.3

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850	1 for frequency hopping systems and digital modulation		

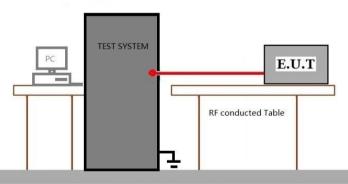
7.2.1 E.U.T. Operation

Operating Enviro	onment:			
Temperature:	20.5 °C	Humidity:	50.0 % RH	Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

cable loss=0.9dB Please Refer to Appendix for Details





Report No.: BTEK231127004AE001 Page: 14 of 43

7.3 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

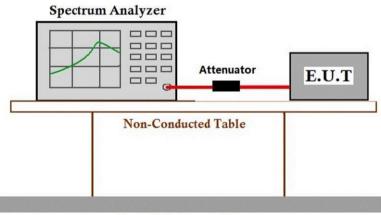
7.3.1 E.U.T. Operation

Operating Environment:Temperature:20.5 °CHumidity:50.0 % RHAtmospheric Pressure:1010mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details



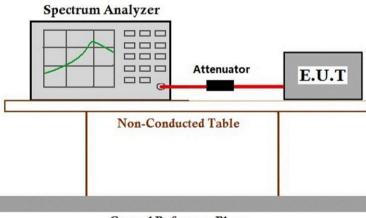




Report No.: BTEK231127004AE001 Page: 15 of 43

7.4 Power Spectrum Density 47 CFR Part 15, Subpart C 15.247(e) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.10.2 Limit: ≤8dBm in any 3 kHz band during any time interval of continuous transmission 7.4.1 E.U.T. Operation **Operating Environment:** Temperature: 20.5 °C Atmospheric Pressure: 1010 mbar Humidity: 50.0 % RH 7.4.2 Test Mode Description Mode Pre-scan / Description Final test Code TX mode_Keep the EUT in continuously transmitting mode with GFSK Final test 00 modulation. Charge+ TX mode_Keep the EUT in charging and continuously transmitting Pre-scan 01 mode with GFSK modulation.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details







Report No.: BTEK231127004AE001 Page: 16 of 43

7.5 Conducted Band Edges Measurement

Test Requirement Test Method: 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

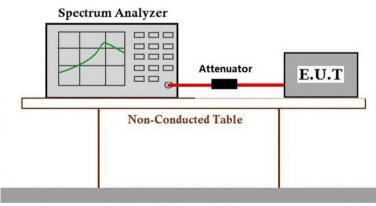
7.5.1 E.U.T. Operation

Operating Enviro	nment:					
Temperature:	20.5 °C	Humidity:	50.0 % RH	Atmospheric Pressure: 1	1010	mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details





Report No.: BTEK231127004AE001 Page: 17 of 43

7.6 Conducted Spurious Emissions

Test Requirement Test Method: Limit: 47 CFR Part 15, Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter

demonstrates compliance with the peak conducted of a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

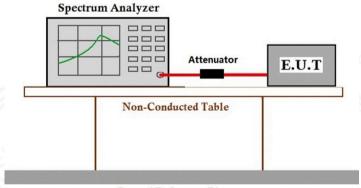
7.6.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	20.5 °C	Humidity:	50.0 % RH	Atmospheric Pressure:	1010	mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

cable loss=0.9dB

Please Refer to Appendix for Details





Report No.: BTEK231127004AE001 Page: 18 of 43

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.205 & 15.209Test Method:ANSI C63.10 (2013) Section 6.10.5Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.7.1 E.U.T. Operation

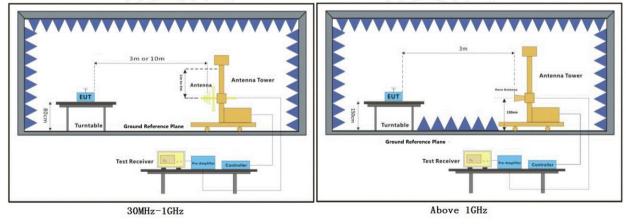
Operating Environment:

Temperature: 21.4 °C Humidity: 54.3 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram







Report No.: BTEK231127004AE001 Page: 19 of 43

7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.





Report No.: BTEK231127004AE001 Page: 20 of 43

	Frequency Reading Factor Level Limit							
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	67.14	-30.59	36.55	74.00	-37.45	peak	Р
2	2390.000	70.66	-30.49	40.17	74.00	-33.83	peak	Ρ
3	2400.000	78.25	-30.48	47.77	74.00	-26.23	peak	Р

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2310.000	67.59	-30.59	37.00	74.00	-37.00	peak	P 📎
2	2390.000	68.96	-30.49	38.47	74.00	-35.53	peak	Р
3	2400.000	78.85	-30.48	48.37	74.00	-25.63	peak	Р

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.04	-30.39	49.65	74.00	-24.35	peak	Р
2	2500.000	70.37	-30.37	40.00	74.00	-34.00	peak	Р

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2483.500	80.83	-30.39	50.44	74.00	-23.56	peak	Р
2	2500.000	71.55	-30.37	41.18	74.00	-32.82	peak	P







Report No.: BTEK231127004AE001 Page: 21 of 43

7.8 Radiated Spurious Emissions (Below 1GHz)

 Test Requirement
 47 CFR Part 15, Subpart C 15.205 & 15.209

 Test Method:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

 Limit:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.8.1 E.U.T. Operation

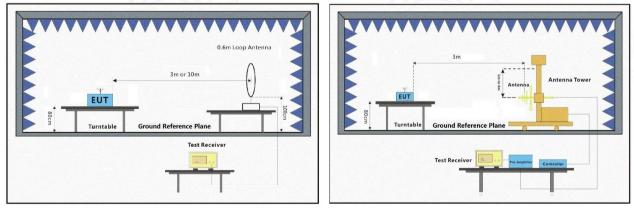
Operating Environment:

Temperature:	25.5 °C	Humidity:	68.6 % RH	Atmospheric Pressure:	1010	mbar	
8.2 Test Mode Desci	rintion						

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram







Report No.: BTEK231127004AE001 Page: 22 of 43

7.8.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

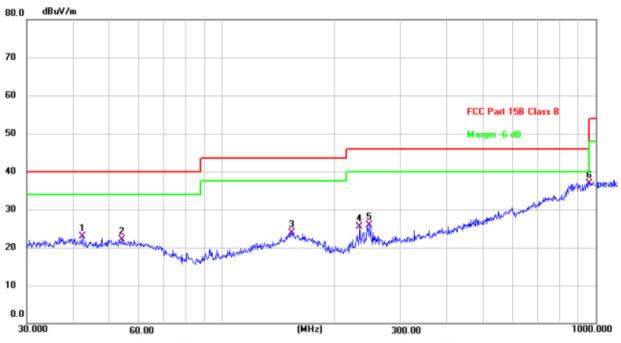
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.





Report No.: BTEK231127004AE001 Page: 23 of 43



Test Mode: 01;	Polarity: Horizontal; Mod	dulation:GFSK ; Channel:Low
----------------	---------------------------	-----------------------------

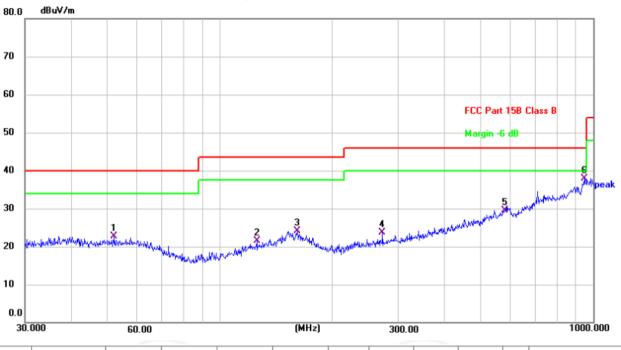
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	42.3022	40.20	-17.30	22.90	40.00	-17.10	QP	100	85	Р	
2	53.8817	39.92	-17.83	22.09	40.00	-17.91	QP	100	23	Р	
3	153.7385	41.00	-17.02	23.98	43.50	-19.52	QP	300	11	Р	
4	233.3486	44.97	-19.40	25.57	46.00	-20.43	QP	200	159	Р	
5	247.6818	44.86	-18.98	25.88	46.00	-20.12	QP	100	170	Р	
6 *	958.7943	43.72	-6.83	36.89	46.00	-9.11	QP	200	135	Р	

Note: Level =Reading + Factor





Report No.: BTEK231127004AE001 Page: 24 of 43



Test Mode: 01; Polarity: Vertical; Modulation:GFSK ; Channel:Low
--

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	52.0251	40.48	-17.74	22.74	40.00	-17.26	QP	300	236	Р	
2	125.4457	39.92	-18.39	21.53	43.50	-21.97	QP	300	347	Р	
3	160.9090	41.47	-17.43	24.04	43.50	-19.46	QP	300	347	Ρ	
4	272.2776	42.18	-18.50	23.68	46.00	-22.32	QP	300	347	Ρ	
5	580.7026	41.80	-12.24	29.56	46.00	-16.44	QP	300	212	Ρ	
6 *	945.4400	44.85	-7.04	37.81	46.00	-8.19	QP	100	334	Ρ	

Note: Level =Reading + Factor





Report No.: BTEK231127004AE001 Page: 25 of 43

7.9 Radiated Spurious Emissions (Above 1GHz)

 Test Requirement
 47 CFR Part 15, Subpart C 15.205 & 15.209

 Test Method:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

 Limit:
 ANSI C63.10 (2013) Section 6.4,6.5,6.6

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature:	21.4 °C	Humidity:	54.3 % RH	Atmospheric Pressure:	1010	mbar
romporataro		riannancy.	0110 /01111		1010	moun

7.9.2 Test Mode Description

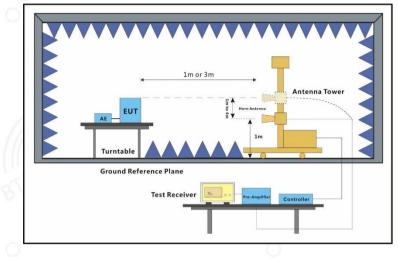
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	01	Charge+ TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.





Report No.: BTEK231127004AE001 Page: 26 of 43

7.9.3 Test Setup Diagram

















Report No.: BTEK231127004AE001 Page: 27 of 43

7.9.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.





Report No.: BTEK231127004AE001 Page: 28 of 43

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2915.228	69.72	-30.60	39.12	74.00	-34.88	peak	Ρ
2	4276.198	67.23	-29.61	37.63	74.00	-36.37	peak	Р
3	6084.489	65.33	-26.27	39.06	74.00	-34.94	peak	Р
4	8644.969	69.04	-25.98	43.06	74.00	-30.94	peak	Р
5	11048.281	68.73	-23.37	45.36	74.00	-28.64	peak	Р
6	14217.961	70.10	-21.37	48.73	74.00	-25.27	peak	Р

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low

Test Mode: 01; Polarity: Vertical; Modulation:GFSK ; Channel:Low

		Readin						
	Frequency	g	Factor	Level	Limit			C
No.	(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	Margin(dB)	Detector	P/F
1	2914.812	69.73	-29.36	40.37	74.00	-33.63	peak	Р
2	4277.190	68.85	-29.83	39.02	74.00	-34.98	peak	Р
3	6086.146	65.32	-24.46	40.86	74.00	-33.14	peak	Р
4	8646.106	70.06	-24.13	45.92	74.00	-28.08	peak	Р
5	11048.146	68.66	-22.52	46.14	74.00	-27.86	peak	Р
6	14217.706	71.71	-22.08	49.63	74.00	-24.37	peak	Р

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2972.971	67.75	-30.20	37.55	74.00	-36.45	peak	Р
2	4313.693	69.33	-28.79	40.55	74.00	-33.45	peak	Р
3	6352.608	68.31	-24.84	43.47	74.00	-30.53	peak	Р
4	8576.381	70.61	-26.03	44.57	74.00	-29.43	peak	Р
5	11286.745	67.14	-23.70	43.44	74.00	-30.56	peak	Р
6	14956.127	71.19	-20.47	50.72	74.00	-23.28	peak	Р





Report No.: BTEK231127004AE001 Page: 29 of 43

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2913.616	68.96	-29.82	39.14	74.00	-34.86	peak	Ρ
2	4278.073	67.61	-29.67	37.94	74.00	-36.06	peak	Р
3	6084.794	64.74	-24.38	40.36	74.00	-33.64	peak	Р
4	8645.964	69.51	-25.18	44.33	74.00	-29.67	peak	Р
5	11048.204	68.58	-23.41	45.18	74.00	-28.82	peak	Р
6	14218.050	71.64	-20.57	51.07	74.00	-22.93	peak	Р

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2973.425	66.42	-30.26	36.16	74.00	-37.84	peak	Р
2	4312.241	68.46	-28.18	40.27	74.00	-33.73	peak	Р
3	6353.869	66.84	-24.97	41.87	74.00	-32.13	peak	Р
4	8577.024	69.06	-24.31	44.75	74.00	-29.25	peak	Р
5	11286.303	67.80	-22.32	45.48	74.00	-28.52	peak	Р
6	14955.106	70.12	-21.07	49.05	74.00	-24.95	peak	Р

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High

No.	Frequency (MHz)	Reading (dBuv)	Factor (dB/m)	Level (dBuv/m)	Limit (dBuv/m)	Margin(dB)	Detector	P/F
1	2914.089	69.69	-29.41	40.28	74.00	-33.72	peak	Р
2	4276.336	68.94	-29.44	39.51	74.00	-34.49	peak	Р
3	6084.960	65.56	-25.19	40.37	74.00	-33.63	peak	Р
4	8646.184	69.13	-25.99	43.15	74.00	-30.85	peak	Р
5	11047.382	68.20	-23.21	44.99	74.00	-29.01	peak	Р
6	14217.432	71.14	-21.08	50.06	74.00	-23.94	peak	Р





 Report No.: BTEK231127004AE001

 Page:
 30 of 43

8 Test Setup Photo

Please refer to the Appendix test setup Photos.

9 EUT Constructional Details (EUT Photos)

Please refer to the Appendix EUT Photos.











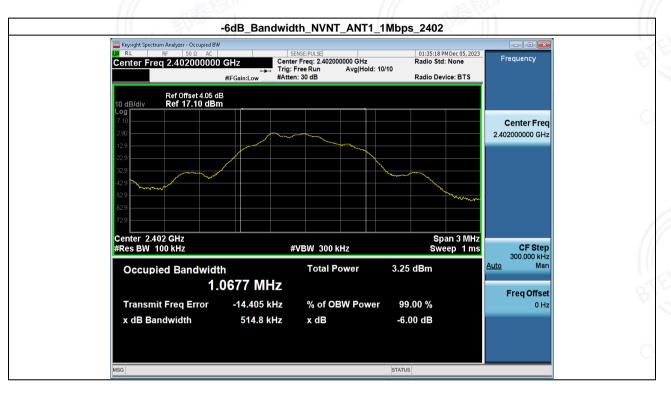
 Report No.:
 BTEK231127004AE001

 Page:
 31 of 43

10 Appendix

1. -6dB Bandwidth

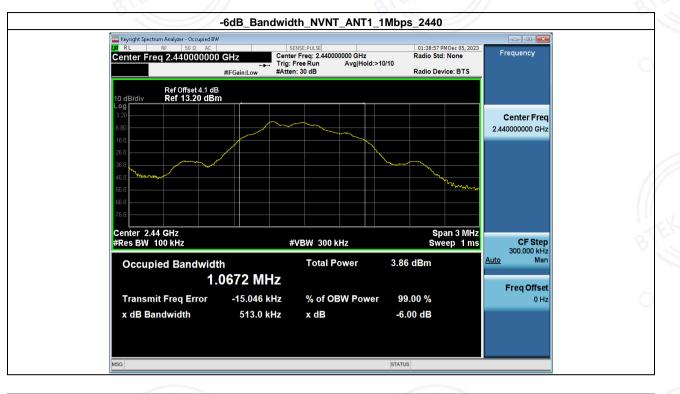
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402	514.8	500	Pass
NVNT	ANT1	1Mbps	2440.00	513.0	500	Pass
NVNT	ANT1	1Mbps	2480	515.1	500	Pass

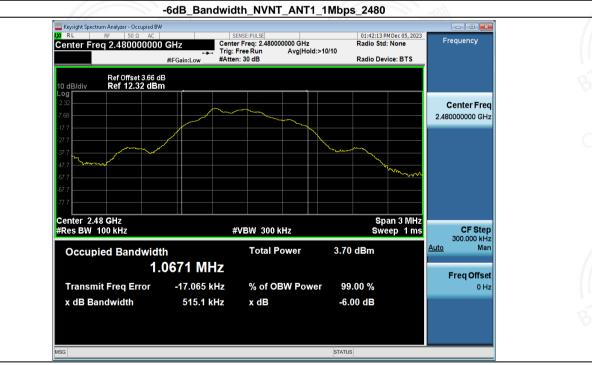






Report No.: BTEK231127004AE001 Page: 32 of 43





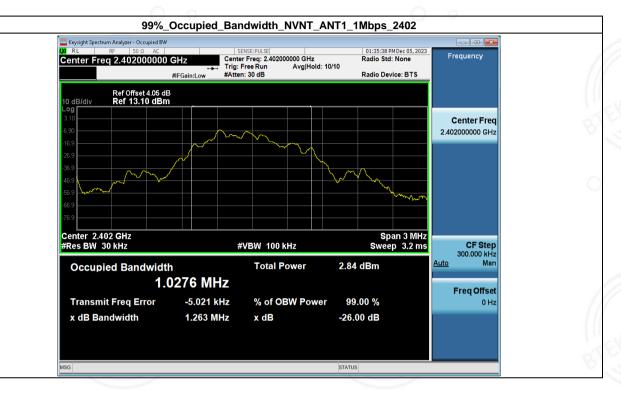




Report No.: BTEK231127004AE001 Page: 33 of 43

2. 3370 Occupi	Cu Du						
Condition	Condition Antenna		Rate	Frequency (MHz)	99%%BW(MHz)		
NVNT	0	ANT1	1Mbps	2402	1.028		
NVNT	NVNT ANT1		1Mbps	2440.00	1.027		
NVNT		ANT1	1Mbps	2480	1.027		

2. 99% Occupied Bandwidth









Report No.: BTEK231127004AE001 Page: 34 of 43











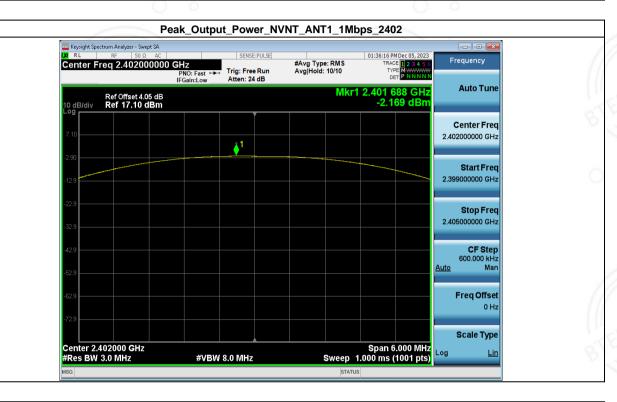




Report No.: BTEK231127004AE001 Page: 35 of 43

3. Peak Output Power

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402	-2.17	0.61	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-1.52	0.70	1000	Pass
NVNT	ANT1	1Mbps	2480	-1.82	0.66	1000	Pass



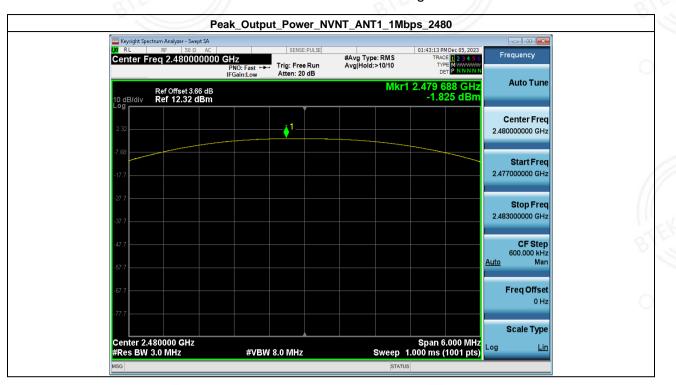
Peak_Output_Power_NVNT_ANT1_1Mbps_2440

Keysight Spectrum Analyzer - Sw XI R L RF 50 G	ept SA 2 AC	SE	NSE:PULSE		01:39:55 PM Dec 05,	2023
Center Freq 2.4400	00000 GHz		ree Run	#Avg Type: RMS Avg Hold:>10/10	TRACE 123 TYPE MWWW DET P N N	
	IFGain:L		20 dB	•.		8
Ref Offset 4. 10 dB/div Ref 13.20				Mkr1	2.439 706 G -1.522 dE	17 4
Log						
3.20		<u>^</u> 1				Center Freq 2.440000000 GHz
-6.80						Start Freq
-16.8						2.437000000 GHz
-26.8						
-20.0						Stop Freq
-36.8						2.443000000 GHz
-46.8						CF Step
						600.000 kHz <u>Auto</u> Man
-56.8						
-66.8						Freq Offset
-76.8						0 Hz
100						Scale Type
Center 2.440000 GHz					Span 6.000 N	
#Res BW 3.0 MHz		#VBW 8.0 M	lz	Sweep 1	Span 6.000 N 1.000 ms (1001 p	ots <mark>)</mark> Log <u>Lin</u>
MSG				STATUS	5	





Report No.: BTEK231127004AE001 Page: 36 of 43









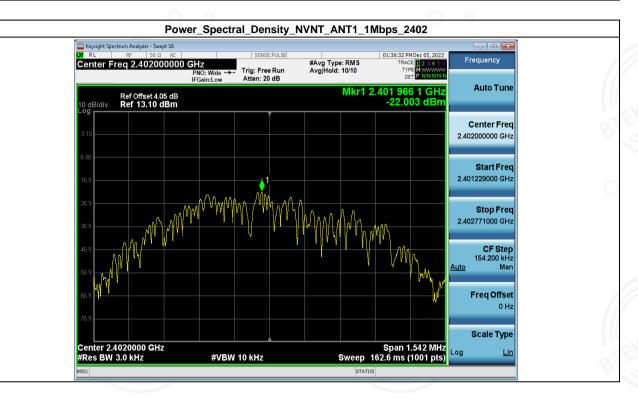




Report No.: BTEK231127004AE001 Page: 37 of 43

		,				
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402	-22.00	8	Pass 🔾
NVNT	ANT1	1Mbps	2440.00	-21.45	8	Pass
NVNT	ANT1	1Mbps	2480	-21.47	8	Pass

4. Power Spectral Density

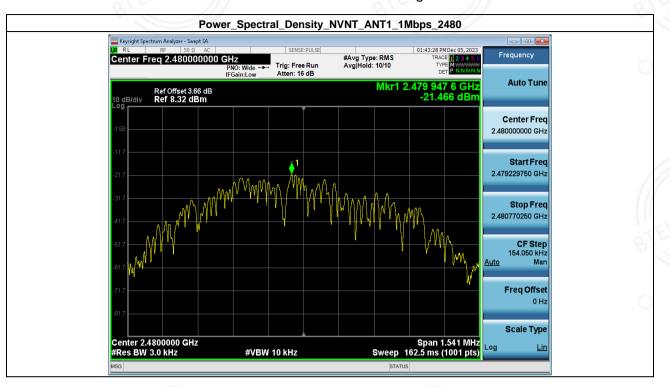


Power_Spectral_Density_NVNT_ANT1_1Mbps_2440 PM Dec 05, 20 Frequency Center Fre #Avg Type: RMS Avg|Hold: 10/10 440000000 GHz Trig: Free Run Atten: 20 dB PNO: Wide ↔→ Auto Tune Mkr1 2.439 964 6 GHz -21.445 dBm Ref Offset 4.1 dB Ref 13.20 dBm 0 dB/di **Center Freq** 2.44000000 GHz Start Freq 2.439229750 GHz MMM MMM Stop Freq 2.440770250 GHz CF Step 154.050 kH <u>Auto</u> **Freq Offset** 0 Hz Scale Type Center 2.4400000 GHz #Res BW 3.0 kHz Span 1.541 MHz Sweep 162.5 ms (1001 pts) Log #VBW 10 kHz





Report No.: BTEK231127004AE001 Page: 38 of 43

















Report No.: BTEK231127004AE001 Page: 39 of 43

5. Bandedge

	5						
Condition	Antenna	tenna Rate TX_Frequen (MHz)		Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402	2399.205	-49.391	-22.343	Pass
NVNT	ANT1	1Mbps	2480	2483.625	-51.251	-21.960	Pass







Report No.: BTEK231127004AE001 Page: 40 of 43







TX_Frequency(MHz) Spurious MAX.Value(dBm)

-50.291

2402

Report No.: BTEK231127004AE001 Page: 41 of 43

Limit

-22.343

Result

Pass

NVNT ANT1 1Mbps 2440.00 -52.076 -21.645 Pass NVNT ANT1 1Mbps 2480 -51.244 -21.960 Pass 1_Reference_Level_NVNT_ANT1_1Mbps_2402 🚾 Keysight Spectrum Analyzer - Swept SA 01:37:01 PM Dec 05, 202 Center Freq 2.402000000 GHz PNO: Wide ----IFGain:Low #Avg Type: RMS Avg|Hold: 20/20 Frequency Trig: Free Run Atten: 24 dB Auto Tune Mkr1 2.401 735 GHz -2.343 dBm Ref Offset 4.05 dB Ref 17.10 dBm 0 dB/div **Center Freq** 2.402000000 GHz <mark>2</mark>1 Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz CF Step 500.000 kHz <u>Auto</u> Freq Offset 0 Hz Scale Type Center 2.402000 GHz #Res BW 100 kHz Span 5.000 MHz Sweep 1.000 ms (1001 pts) Log Lin #VBW 300 kHz 2_Spurious_Emission_NVNT_ANT1_1Mbps_2402 Keysight Spectru Frequency #Avg Type: RMS Avg|Hold: 5/5 Center Freg 12.515000000 GHz Trig: Free Run Atten: 20 dB PNO: Fas IFGain:Lov Auto Tune /kr2 9.601 0 GH -50.291 dBn Ref Offset 4.05 dB Ref 13.05 dBm Center Freq 12.515000000 GHz Start Freq 30.000000 MHz Stop Freq 25.00000000 GHz Stop 25.00 GHz 2.387 s (10001 pts) Start 30 MHz #Res BW 100 kHz CF Step 2.49700000 GHz #VBW 300 kHz Sweep Mar <u>uto</u> 2.402 2 GHz 9.601 0 GHz -17.902 dBn -50.291 dBn Freq Offset 0 Hz Scale Type Lin _00 STATUS

6. Spurious Emission

Antenna

ANT1

Rate

1Mbps

Condition

NVNT





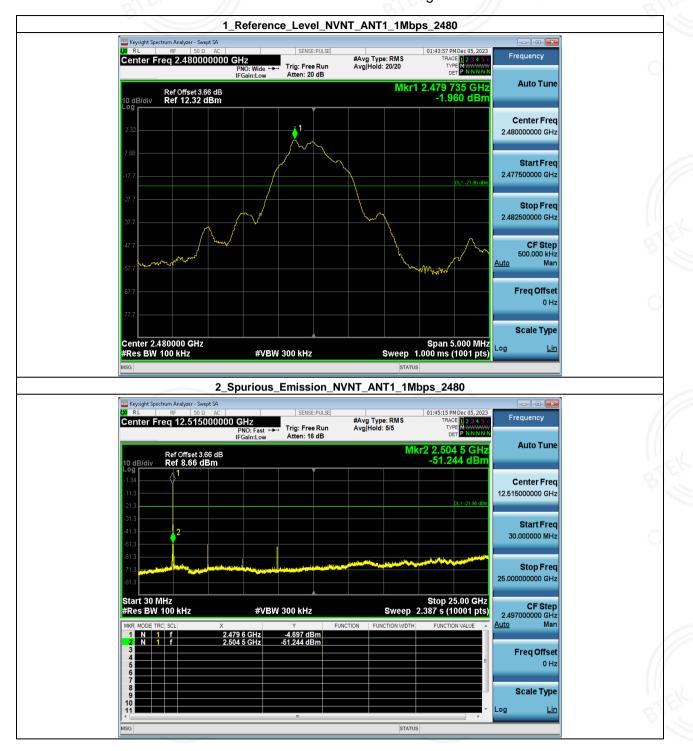
Report No.: BTEK231127004AE001 Page: 42 of 43







Report No.: BTEK231127004AE001 Page: 43 of 43



- End of the Report -

