

Report No.: TW2501165-02E

Applicant:	DMR Technologies
Product:	Unmanned Aircraft

Model No.: D-Series 313, D-Series

N/A

Trademark:

Test Standards: FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By em

Terry Tang

Manager

Dated:

February 17, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES. Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant:DMR TechnologiesAddress:2050 15th St., Detroit, MI 48216

1.3 Description of EUT

Product:	Unmanned Aircraft		
Manufacturer:	DMR Technologies		
Address:	2050 15th St., Detroit, MI 48216		
Trademark:	N/A		
Additional Trademark:	N/A		
Model Number:	D-Series 313		
Additional Model Numb	er: D-Series		
Hardware Version: R500	-4G-SIM7600-V2.2		
Software Version: V1.4.6			
Serial No.: 2110F31300000000005			
Type of Modulation	GFSK (Bluetooth BLE)		
Frequency range	2402-2480MHz		
Frequency Selection	By software		
Channel Number	40		
Rating:	Input: DC22.2V		
Battery:	DC22.2V, 7000mAh Li-ion battery		

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2025-01-22 to 2025-02-17

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB

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Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

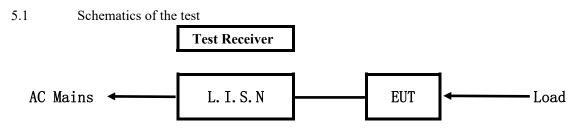
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5.0 Power Line Conducted Emission Test



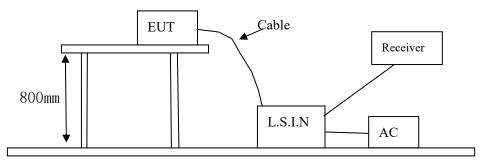
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Device	Manufacturer	Model	FCC ID
Unmanned	DMR Technologies	D Sovies 212 D Sovies	2BM3J-D313
Aircraft	DWIK Technologies	D-Series 313, D-Series	2DWI5J-D515

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)	
(MHz)	Quasi-peak Level	Ave age Leve
$0.15~\sim~0.~0$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT not directly or in-directly connected to the AC power source. so this test item not applicable.

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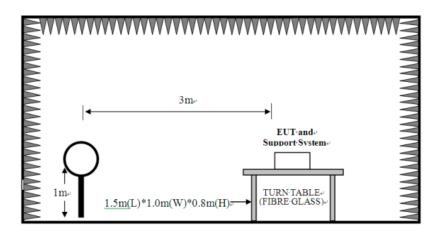


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

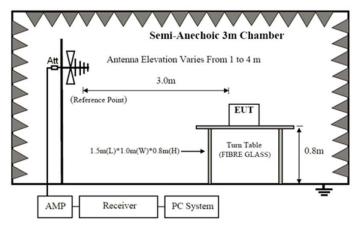


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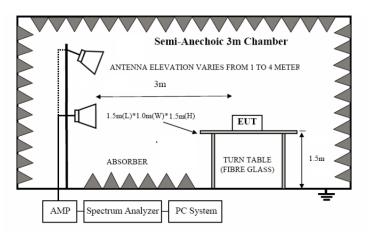
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. Worse case were recorded in the test report. BLE-1M was the worst case.

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

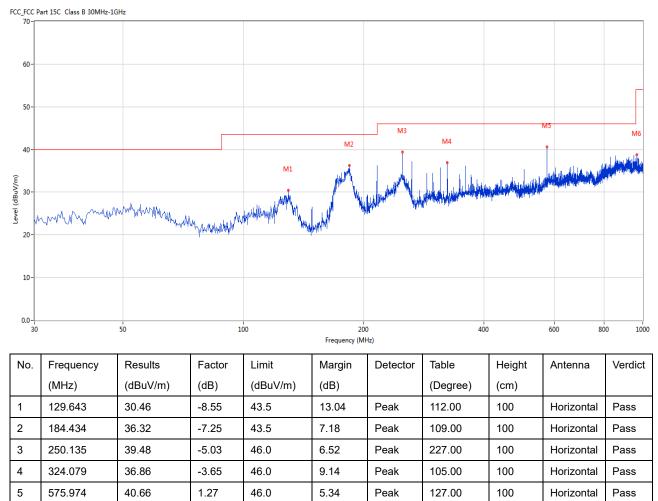
EUT set Condition:

Keep Bluetooth Transmitting

Results:

Pass

Test Figure:



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5.09

54.0

38.81

6

966.786

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15.19

Peak

201.00

100

Horizontal

Pass



Test result General Radiated Emission Data and Harmonics Radiated Emission Data

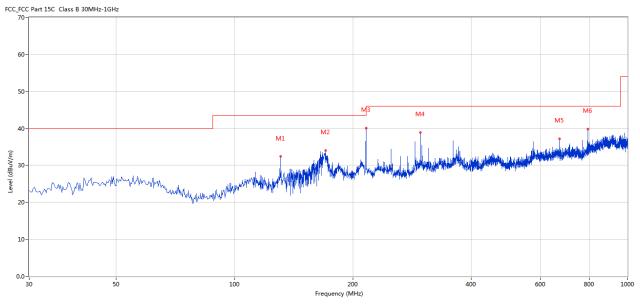
Radiated Emission In Vertical (30MHz----1000MHz)

Pass

EUT set Condition: Keep Transmitting

Results:

Test Figure:



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	131.097	32.36	-8.75	43.5	11.14	Peak	272.00	100	Vertical	Pass
2	170.372	34.07	-8.87	43.5	9.43	Peak	318.00	100	Vertical	Pass
3	215.951	40.07	-6.71	43.5	3.43	Peak	194.00	100	Vertical	Pass
4	296.926	38.95	-4.01	46.0	7.05	Peak	236.00	100	Vertical	Pass
5	671.980	37.22	1.80	46.0	8.78	Peak	194.00	100	Vertical	Pass
6	791.987	39.80	2.87	46.0	6.20	Peak	148.00	100	Vertical	Pass

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optiunen nieuti	Transmitting under Low Ci		
Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		Н	74(Peak)/ 54(AV)
4804		V	74(Peak)/ 54(AV)
7206		H/V	74(Peak)/ 54(A)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Pe k)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under Low Channel (2402MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

1		`	/
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4880		Н	74(Peak)/ 54(AV)
4880		V	74(Peak)/ 54(AV)
7320		H/V	74(Peak)/ 54(AV)
9760		H/V	74(Peak)/ 54(AV)
12200		H/V	74(Peak)/ 54(AV)
14640		H/V	74(Peak)/ 54(AV)
17080		H/V	74(Peak)/ 54(AV)
19520		H/V	74(Peak)/ 54(AV)
21960		H/V	74(Peak)/ 54(AV)
24400		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting g under Middle Channel (2440MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode:	Transmitting under High C	nannei (2480MHZ)	
Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Oneration Mode: Transmitting under High Channel (2480MHz)

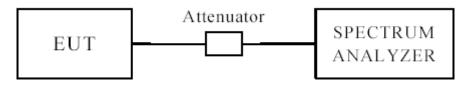
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

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7.0 6dB Bandwidth Measurement 7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
		2402		0.655	0.5	Pass
	BLE 1M	2440		0.662	0.5	Pass
		2480	A pt1	0.639	0.5	Pass
NVNT		2402	Ant1	1.302	0.5	Pass
	BLE 2M	2440		1.269	0.5	Pass
		2480		1.271	0.5	Pass

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	-6dB Bandwidth	n NVNT BLE 1M 2	402MHz A	.nt1	
gilent Spectrum Analyzer - Occupied BW RL RF 50Ω AC Center Freq 2.402000000 G	Hz Center Trig: F	r Freq: 2.402000000 GHz ree Run Avg Hold:	R : 100/100	09:31:47 AM Jan 20, 2025 Radio Std: None	Frequency
Ref Offset 2.92 dB	FGain:Low #Atten:	: 30 dB	Mkr3 2	tadio Device: BTS 2.402222 GHz	
0 dB/div Ref 22,92 dBm	. 1		-	0.49658 dBm	
2.92	2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Fred 2.402000000 GHz
7.08					
27.1			- And		
37.1 maantool ⁴⁴				Marken warman	
47.1					
67.1					
Center 2.402 GHz #Res BW 100 kHz		VBW 300 kHz		Span 2 MHz weep 1.333 ms	CF Step
Occupied Bandwidth	77	Total Power	12.1 d		200.000 kH Auto Mar
	966 MHz		72. T U		Ex 0.9
Transmit Freq Error	-105.55 kHz	OBW Power	99.0	0 %	Freq Offset 0 Hz
x dB Bandwidth	654.6 kHz	x dB			
SG		1 NVNT BLE 1M 2	STATUS	nt1	
			STATUS		
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	-6dB Bandwidth	n NVNT BLE 1M 2	STATUS 440MHz A ALIGNAUTO	nt1 09:33:56 AM Jan 20, 2025	Frequency
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 2.440000000 G	-6dB Bandwidth	n NVNT BLE 1M 2	STATUS 440MHz A Align Auto 100/100	nt1	Frequency
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC Center Freq 2.440000000 G #II Ref Offset 2.96 dB	-6dB Bandwidth	n NVNT BLE 1M 2	STATUS 440MHz A ALIGN AUTO 100/100 R R Mkr3	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None	
gilent Spectrum Analyzer - Occupied BW d RL RF 50 Ω AC Center Freq 2.440000000 G #I	-6dB Bandwidth	n NVNT BLE 1M 2 SENSE:INT Freq: 2.440000000 GHz ree Run Avg Hold: 30 dB	STATUS 440MHz A ALIGN AUTO 100/100 R R Mkr3	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz	
gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC center Freq 2.440000000 G #II Ref Offset 2.96 dB 0.0 dB/div Ref 22.96 dB 13.0 2.96	-6dB Bandwidth	n NVNT BLE 1M 2	STATUS 440MHz A ALIGN AUTO 100/100 R R Mkr3	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz	Center Free
glient Spectrum Analyzer - Occupied BW d RL RF 50 Ω AC Center Freq 2.440000000 G #II Ref Offset 2.96 dB Ref 22.96 dB Ref 2.96 dB P g	-6dB Bandwidth	n NVNT BLE 1M 2 SENSE:INT Freq: 2.440000000 GHz ree Run Avg Hold: 30 dB	STATUS 440MHz A ALIGN AUTO 100/100 R R Mkr3	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz	Center Free
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gilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC center Freq 2.440000000 G #II 0 dB/div Ref Offset 2.96 dB 2.96	-6dB Bandwidth	n NVNT BLE 1M 2 SENSE:INT Freq: 2.440000000 GHz ree Run Avg Hold: 30 dB	STATUS 440MHz A ALIGN AUTO 100/100 R R Mkr3	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz	Center Free
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gilent Spectrum Analyzer - Occupied BW d RL RF 50.0 AC center Freq 2.440000000 G #II 0 B/div Ref Offset 2.96 dB 0 B/div Ref 22.96 dB 13.0	-6dB Bandwidth	n NVNT BLE 1M 2 SENSE:INT Freq: 2.440000000 GHz ree Run Avg Hold: 30 dB	ALIGNAUTO II ALIGNAUTO II R MKr3 	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz 0.66863 dBm	Center Fred 2.44000000 GH; 2.42000000 GH; CF Step 200.000 kH;
gllent Spectrum Analyzer - Occupied BW g RL RF 50 Ω AC center Freq 2.440000000 G #II 0 dB/div Ref Offset 2.96 dB Ref 22.96 dBm - og 13.0	-6dB Bandwidth Hz Center FGain:Low #Atten	n NVNT BLE 1M 2	ALIGNAUTO II ALIGNAUTO II R MKr3 	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz 0.66863 dBm Span 2 MHz Span 2 MHz Sweep 1.333 ms	Center Frec 2.44000000 GHz
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glient Spectrum Analyzer - Occupied BW @ RL RF 50.9 AC Center Freq 2.440000000 G #II Ref Offset 2.96 dB Ref 22.96 dB 10 dB/div Ref 22.96 dB -09	-6dB Bandwidth Hz Center FGain:Low #Atten 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	NVNT BLE 1M 2	STATUS 440MHz A 410NAUTO R MKr3 - - - - - - - - - - - - - - - - - - -	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz 0.66863 dBm Span 2 MHz sweep 1.333 ms IBm	Center Frec 2.440000000 GHz 2.440000000 GHz 2.44000000 GHz 200.000 kHz 200.000 kHz Auto Mar Freq Offset
gilent Spectrum Analyzer - Occupied BW @ RL RF 50 @ AC Center Freq 2.440000000 G #II Ref Offset 2.96 dB Ref 22.96 dB Og AC AC 296 0 0 0 296 0 0 0 0 296 0 0 0 0 0 296 0 0 0 0 0 0 0 296 0 <	-6dB Bandwidth Hz Center FGain:Low #Atten 2 2 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	n NVNT BLE 1M 2	status 440MHz A alignauto R R Mkr3 Mkr3 S 11.7 d	nt1 09:33:56 AM Jan 20, 2025 tadio Std: None tadio Device: BTS 2.44022 GHz 0.66863 dBm Span 2 MHz sweep 1.333 ms IBm	Center Fred 2.44000000 GH; 2.42000000 GH; CF Step 200.000 kH;

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ilent Spe	ctrum Analy	zer - Oco	upied BW									
RL	RF	50 Ω	AC			SENSE:INT		GNAUTO	09:35:49. Radio Ste	AM Jan 20, 20	125	Frequency
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				IFGain:Low	#Atten			Mkr3	2.480		17	
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.og												Center Fred
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g <mark>ilent Sp</mark> e	RF Freq 2.	50 Ω	AC	iHz	Center	SENSE:INT	ALIC 00 GHz	2MHz	Ant1	AM Jan 20, 20 AM Jan 2	125	Frequency
<mark>gilent Spe</mark> R L	RF	50 Ω	ac 10000 G	iHz	Center	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De	l: None vice: BTS		Frequency
g <mark>ilent Spe</mark> RL enter	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.402	l: None vice: BTS	1z	Frequency
0 dB/div	RF Freq 2. Re	50 Ω 40200	AC 100000 G	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.402	1: None vice: BTS 623 GH	1z	
gilent Spe RL Center	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.402	1: None vice: BTS 623 GH	iz m	Center Free
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gilent Spe RL Center	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.4020 -5.50	1: None vice: BTS 623 GH	iz m	Center Free
gilent Spe RL enter 0 dB/div 0 g 12.9 12.9 12.9 7.1 7.1 7.1	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.4020 -5.50	1: None vice: BTS 623 GH	iz m	Center Free
cilent Spe RL enter 0 dB/div 9 g 12.9 12.9 2.92 7.1 7.1 7.1	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.4020 -5.50	1: None vice: BTS 623 GH	iz m	Center Free
gilent Spe RL enter 0 dB/dit 0 g 2.9 2.9 0.08 7.1 7.1 7.1	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.4020 -5.50	1: None vice: BTS 623 GH	iz m	Center Free
cilent Spe RL center 0 dB/dit 0 g 2.9 1.08 7.1 37.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	RF Freq 2. Re	50 Ω 40200	AC 00000 G # 2.92 dB	iHz	Center ► Trig:F	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto Radio De 2.4020 -5.50	1: None vice: BTS 623 GH	iz m	Center Free
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old Gald 0 dB/dit 0 dB/dit 0 gg 12.9 gg 12.9 gg 17.1	RF Freq 2. Re	50 Ω 40200 f Offset f 22.9	AC 00000 G # 2.92 dB	iHz	Center Trig:Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run	ALIC 00 GHz Avg Hold: 10	2MHz 3N AUTO 0/100	Ant1 09:37:52 Radio Sto 2.402 -5.50	1: None vice: BTS 623 GH		Center Free 2.40200000 GH; CF Step
gilent Spectrum RL RI RI 29 9 70 70 71 77	Re Re 2.402 G W 100 k	f Offset f 22.9	AC # 2.92 dB 2 dBm	iHz	Center Trig:Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB	ALIC 00 GHz Avg Hold: 10	SN AUTO OV100 Mkr3	Ant1 09:37:52 Radio De 2.402 -5.50 3 3 Sweep	I: None vice: BTS 623 GH 003 dB		Center Fred 2.40200000 GH: 2.40200000 GH: 2.4020000 GH:
gitent Spectrum RL RI 200 201 202 203 204 205	Re Re 2.402 G	f Offset f 22.9	AC #	Hz IFGain:Low	Center Trig:Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run () :30 dB	ALIC 00 GHz Avg Hold: 10	SN AUTO OV100 Mkr3	Ant1 09:37:52 Radio Sto 2.402 -5.50	I: None vice: BTS 623 GH 003 dB	tz m	Center Fred 2.402000000 GH 2.40200000 GH CF Step 200.000 kH to Mar
0 dB/dij RL R2 0 dB/dij 12 9 2.92 2.92 2.92 2.92 2.92 2.92 2.92 2	PFeq 2. Freq 2. Re 2.402 G W 100 k upied l	Hz Hz Band	AC 00000 G # 2.92 dB 2 dBm width 1.8	Hz FGain:Low 475 M	Center Trig:Fi #Atten:	SENSE:INT Freq: 2,4020000 ree Run : 30 dB	Z	2MHz 3NAUTO 0/100 Mkr3 12.4	Ant1 09:37:52 Radio Sto Radio De 2.402 -5.50 3 3 Stopped	I: None vice: BTS 623 GH 003 dB	tz m	Center Free 2.402000000 GH 2.40200000 GH 200.000 kH to Mar Freq Offse
0 dB/di RL RL 2.92 2	Re Re 2.402 G W 100 k upied l	Hz Hz Hz Hz Hz Hz Hz Hz Hz	AC 00000 G # 2.92 dB 2 dBm width 1.8	Hz IFGain:Low	Center Trig:Fi #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB	Z	2MHz 3NAUTO 0/100 Mkr3 12.4	Ant1 09:37:52 Radio De 2.402 -5.50 3 3 Sweep	I: None vice: BTS 623 GH 003 dB	tz m	Center Free 2.402000000 GH 2.40200000 GH 200.000 kH to Mar Freq Offse
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0 dB/di RL RL 0 dB/di 2.92	Re Re 2.402 G W 100 k upied l	Hz Hz Hz Hz Hz Hz Hz Hz Hz	AC 00000 G # 2.92 dB 2 dBm width 1.8	Hz IFGain:Low 475 M -28.112	Center Trig:F #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB ////////////////////////////////////	Z	22MHz 3NAUTO 0/100 Mkr3 12.4 99	Ant1 09:37:52 Radio Sto Radio De 2.402 -5.50 3 3 Stopped Sweep • dBm 0.00 %	I: None vice: BTS 623 GH 003 dB	tz m	Center Free 2.402000000 GH 2.40200000 GH 200.000 kH to Mar Freq Offse
gitent Spee RL eenter 0 dB/dij 29 29 292 292 77.1 77.1 77.1 200 77.1 201 202 203 <td>Re Re 2.402 G W 100 k upied l</td> <td>Hz Hz Hz Hz Hz Hz Hz Hz Hz</td> <td>AC 00000 G # 2.92 dB 2 dBm width 1.8</td> <td>Hz IFGain:Low 475 M -28.112</td> <td>Center Trig:F #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten:</td> <td>SENSE:INT Freq: 2.4020000 ree Run : 30 dB ////////////////////////////////////</td> <td>Z</td> <td>22MHz 3NAUTO 0/100 Mkr3 12.4 99</td> <td>Ant1 09:37:52 Radio Sto Radio De 2.402 -5.50 3 3 Stopped Sweep • dBm 0.00 %</td> <td>I: None vice: BTS 623 GH 003 dB</td> <td>tz m</td> <td>Center Free 2.402000000 GH 2.40200000 GH 200.000 kH to Man Freq Offse</td>	Re Re 2.402 G W 100 k upied l	Hz Hz Hz Hz Hz Hz Hz Hz Hz	AC 00000 G # 2.92 dB 2 dBm width 1.8	Hz IFGain:Low 475 M -28.112	Center Trig:F #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten: #Atten:	SENSE:INT Freq: 2.4020000 ree Run : 30 dB ////////////////////////////////////	Z	22MHz 3NAUTO 0/100 Mkr3 12.4 99	Ant1 09:37:52 Radio Sto Radio De 2.402 -5.50 3 3 Stopped Sweep • dBm 0.00 %	I: None vice: BTS 623 GH 003 dB	tz m	Center Free 2.402000000 GH 2.40200000 GH 200.000 kH to Man Freq Offse

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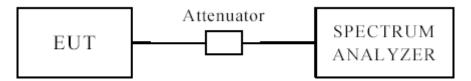
_				NVNT BL			7 4101				_
0	Analyzer - Occupied B RF 50 Ω AC		SF	NSE:INT		ALIGN AUTO	09:41:36/	AM Jan 20.2	2025		
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		8488 MH	z						F	F	a 0#
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x dB Ban	Freq Error	-30.621 kł 1.269 Mł		X dB	Wel		.00 % 00 dB		Ļ		511
		-6dB Band	dwidth	NVNT BL	E 2M 24	status 480MHz					
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RL		W	SE	NSE:INT req: 2.4800000 e Run		480MHz	Ant1	l: None		Frequ	ency
RL Center Fred	RF 50 Ω AC Q 2.480000000 Ref Offset 2.98 dl	W I GHz #IFGain:Low B	SE Center F Trig: Fre	NSE:INT req: 2.4800000 e Run	000 GHz	480MHz Alignauto 100/100	Ant1 09:44:04 / Radio Sto Radio De 2.4800	l: None vice: BTS	s Hz	Frequ	ency
Center Fred	rf 50 Ω AC q 2.480000000	W I GHz #IFGain:Low B	SE Center F Trig: Fre	NSE:INT req: 2.4800000 e Run	000 GHz	480MHz Alignauto 100/100	Ant1 09:44:04 / Radio Sto Radio De 2.4800	t: None vice: BTS 605 G	s Hz		
Center Fred	RF 50 Ω AC Q 2.480000000 Ref Offset 2.98 dl	W I GHz #IFGain:Low B	SE Center F Trig: Fre	NSE:INT req: 2.4800000 e Run	000 GHz	480MHz Alignauto 100/100	Ant1 09:44:04 / Radio Sto Radio De 2.4800	t: None vice: BTS 605 G	s Hz	Cen	ter Free
RL Center Free 0 dB/div -og 13.0 2.98	RF 50 Ω AC Q 2.480000000 Ref Offset 2.98 dl	W I GHz #IFGain:Low B	SE Center F Trig: Fre	NSE:INT req: 2.4800000 e Run	000 GHz	480MHz Alignauto 100/100	Ant1 09:44:04) Radio Sto Radio De 2.4800 -5.18	t: None vice: BTS 605 G	s Hz		ter Free
RL Center Free 0 dB/div	RF 50 Ω AC Q 2.480000000 Ref Offset 2.98 dl	W I GHz #IFGain:Low B	SE Center F Trig: Fre	NSE:INT req: 2.4800000 e Run	000 GHz	480MHz Alignauto 100/100	Ant1 09:44:04) Radio Sto Radio De 2.4800 -5.18	t: None vice: BTS 605 G	s Hz	Cen	terFree
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RL center Frec	Ref Offset 2.98 dl Ref 22.98 dBn 2.98 dBn 2.99 d	W #IFGain:Low B n h 8469 MH -30.294 kł	USE Center F Trig: Fre #Atten: 3	NSE:INT req: 2.4800000 e Run 0 dB BW 300 kH Total Po OBW Po	000 GHz Avg Hold:	480MHz ALIGN AUTO 100/100 Mkr3 100/100 11.9 99	Ant1 09:44:04. Radio De 2.4800 -5.18 3 -5.18	I: None vice: BTS 305 G 52 d E	s Hz 3m - - - - - - -	Cen 2.480000 2.00 200	ter Free 0000 GH CF Step 0.000 kH Mar
RL enter Frec enter 2.48 Res BW 10 Occupie Transmit	Ref Offset 2.98 dl Ref 22.98 dBn 2.98 dBn 2.99 d	W #IFGain:Low B n h 8469 MH -30.294 kł	USE Center F Trig: Fre #Atten: 3	NSE:INT req: 2.4800000 e Run 0 dB BW 300 kH Total Po OBW Po	000 GHz Avg Hold:	480MHz ALIGN AUTO 100/100 Mkr3 100/100 11.9 99	Ant1 09:44:04. Radio De 2.4800 -5.18 3 -5.18	I: None vice: BTS 305 G 52 d E	s Hz 3m - - - - - - -	Cen 2.480000 2.00 200	ter Free 0000 GH CF Step 0.000 kH Mar

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4Test Results

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
	BLE	2402		7.62	0	7.62	30	Pass
		2440		7.23	0	7.23	30	Pass
	1M	2480	A == 14	7.27	0	7.27	30	Pass
NVNT		2402	Ant1	7.32	0	7.32	30	Pass
	BLE 2M	2440		6.92	0	6.92	30	Pass
	ZIVI	2480		6.76	0	6.76	30	Pass

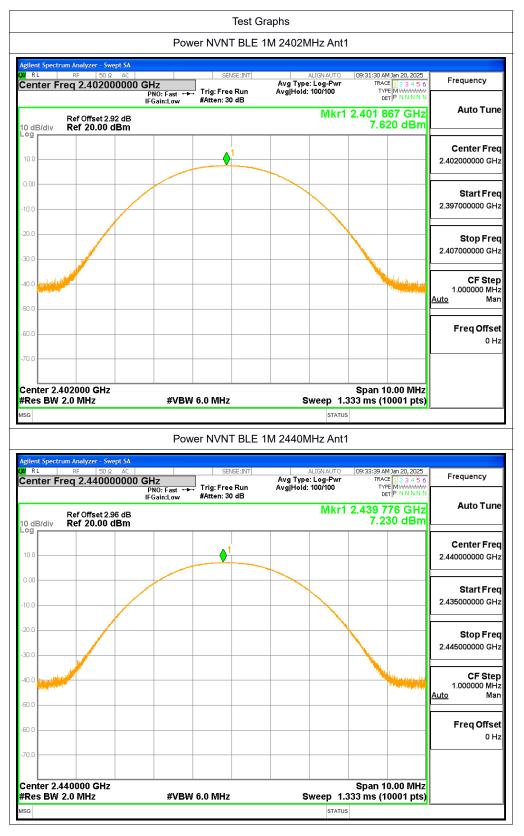
Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

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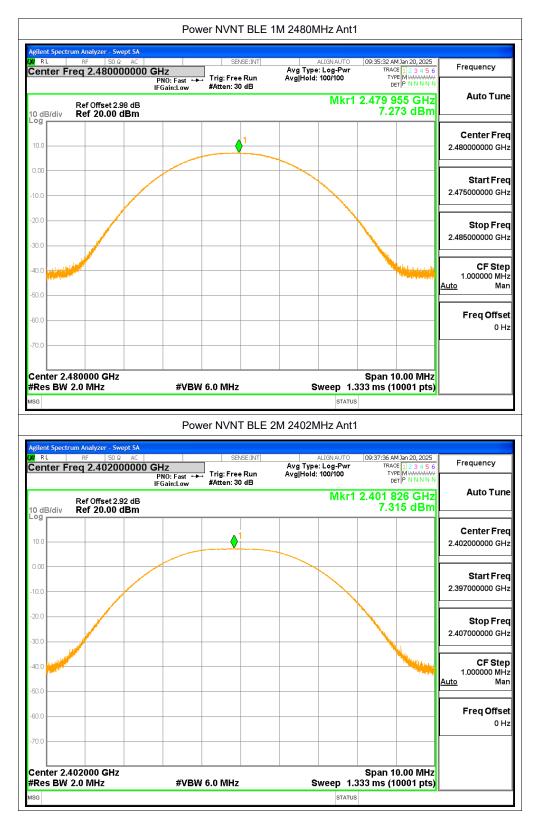




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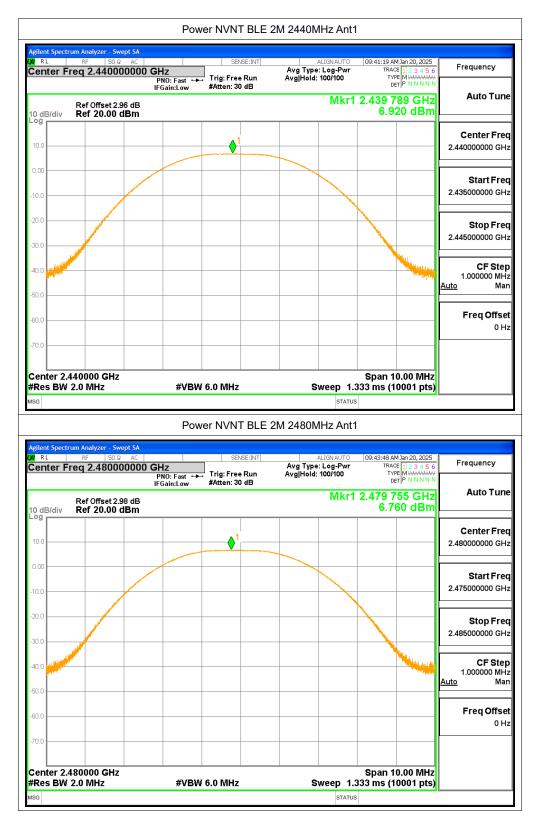




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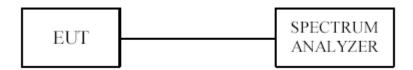
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

- 2. Set the RBW = 3 kHz.
- 3. Set the VBW \geq 10 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be $\leq 8 \text{ dBm/3kHz}$.

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9.4Test Result

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					(dB)			
		2402		-8.75	0	-8.75	8	Pass
	BLE	2440		-8.05	0	-8.05	8	Pass
	1M	2480	014	-7.23	0	-7.23	8	Pass
NVNT		2402	Ant1	-12.83	0	-12.83	8	Pass
	BLE	2440		-12.1	0	-12.1	8	Pass
	2M	2480	1	-13.12	0	-13.12	8	Pass

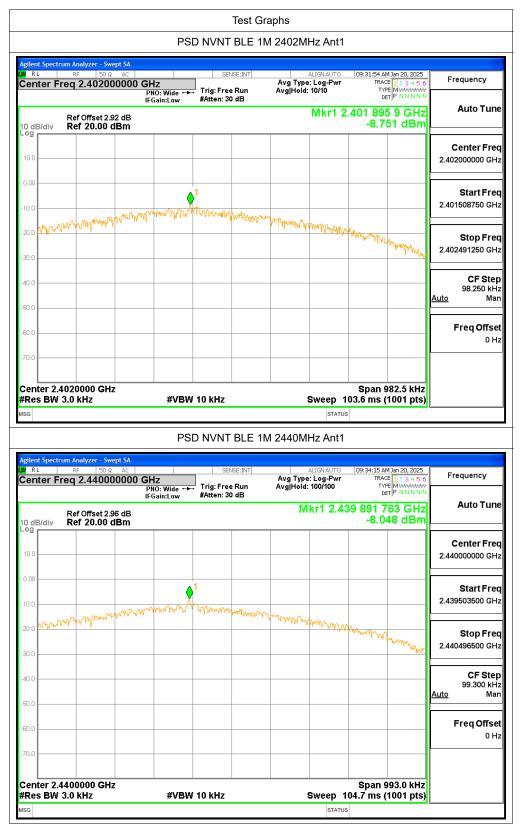
Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

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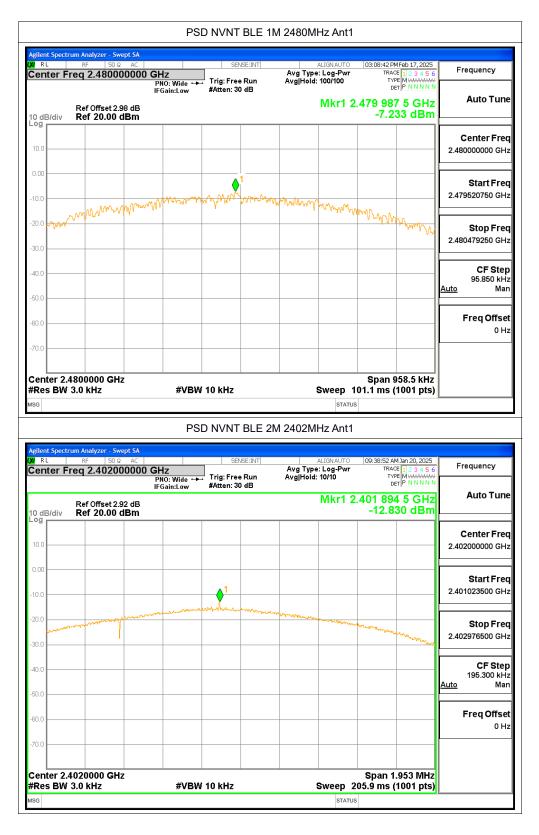




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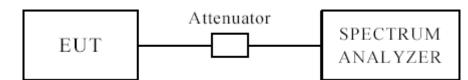


gilent Spect	trum Analyzer - Swept SA						
RL	RF 50 Ω AC Freq 2.440000000	GHz PNO: Wide +++ Trig: F	SENSE:INT	ALIGNAU Avg Type: Log-P Avg Hold: 100/100	vr Ti	3 AM Jan 20, 2025 RACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
0 dB/div	Ref Offset 2.96 dB Ref 20.00 dBm	IFGain:Low #Atten	: 30 dB	Mkr		89 6 GHz 096 dBm	Auto Tun
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20.0	man and the stand and the stand of the stand	mannamanaha	hanna	m month	mmmmmm		Stop Fre
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	.4400000 GHz / 3.0 kHz	#VBW 10 kHz	z	Sweep		1.904 MHz s (1001 pts)	
Res BW	/ 3.0 kHz			•	200.7 ms		
Res BW		PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ST	200.7 ms	1 AM Jan 20, 2025 RACE 1 2 3 4 5 6	Frequency
gilent Spect	I 3.0 KHz	PSD NVN	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 m atus t1 09:47:1: wr 11 2.479 8	s (1001 pts)	Frequency Auto Tun
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Res BW ag glient Spect RL enter F 0 dB/div	1 3.0 kHz trum Analyzer - Swept SA RF 50 Q AC Freq 2.480000000 Ref Offset 2.98 dB	PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 m atus t1 09:47:1: wr 11 2.479 8	1 AMJan 20, 2025 RACE 12 3 4 5 6 RACE 12 3 4 5 6 PETP NNNN BETP NNNN 83 7 GHZ	Auto Tun Center Fre
Res BW ss	1 3.0 kHz trum Analyzer - Swept SA RF 50 Q AC Freq 2.480000000 Ref Offset 2.98 dB	PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 m atus t1 09:47:1: wr 11 2.479 8	1 AMJan 20, 2025 RACE 12 3 4 5 6 RACE 12 3 4 5 6 PETP NNNN BETP NNNN 83 7 GHZ	Auto Tun Center Fre 2.48000000 GH Start Fre 2.479046750 GH Stop Fre
Res BW 3G Silent Spect RL enter F 0 dB/div 0 dB/div<	1 3.0 kHz trum Analyzer - Swept SA RF 50 Q AC Freq 2.480000000 Ref Offset 2.98 dB	PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 m atus t1 09:47:1: wr 11 2.479 8	1 AMJan 20, 2025 RACE 12 3 4 5 6 RACE 12 3 4 5 6 PETP NNNN BETP NNNN 83 7 GHZ	Auto Tun Center Fre 2.48000000 GH Start Fre 2.479046750 GH Stop Fre 2.480953250 GH CF Stej 190.650 kH Auto Ma
Res BW sg gilent Spect	1 3.0 kHz trum Analyzer - Swept SA RF 50 Q AC Freq 2.480000000 Ref Offset 2.98 dB	PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 m atus t1 09:47:1: wr 11 2.479 8	1 AMJan 20, 2025 RACE 12 3 4 5 6 RACE 12 3 4 5 6 PETP NNNN BETP NNNN 83 7 GHZ	Auto Tun Center Fre 2.48000000 GH Start Fre 2.479046750 GH Stop Fre 2.480953250 GH CF Stej 190.650 KH
Res BW gilent Spect RL Rt RL center F RL center F	1 3.0 kHz trum Analyzer - Swept SA RF 50 Q AC Freq 2.480000000 Ref Offset 2.98 dB	PSD NVN GHz PN0: Wide →→ Trig: F	IT BLE 2 SENSE:INT	ALIGNAU Avg Type: Log-Pr AvgHold: 10/10	200.7 ms	1 AMJan 20, 2025 RACE 12 3 4 5 6 RACE 12 3 4 5 6 PETP NNNN BETP NNNN 83 7 GHZ	Auto Tun Center Fre 2.480000000 GH Start Fre 2.479046750 GH Stop Fre 2.480953250 GH CF Stej 190.650 kH Auto Freq Offse

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10 Out of Band Measurement 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

- 1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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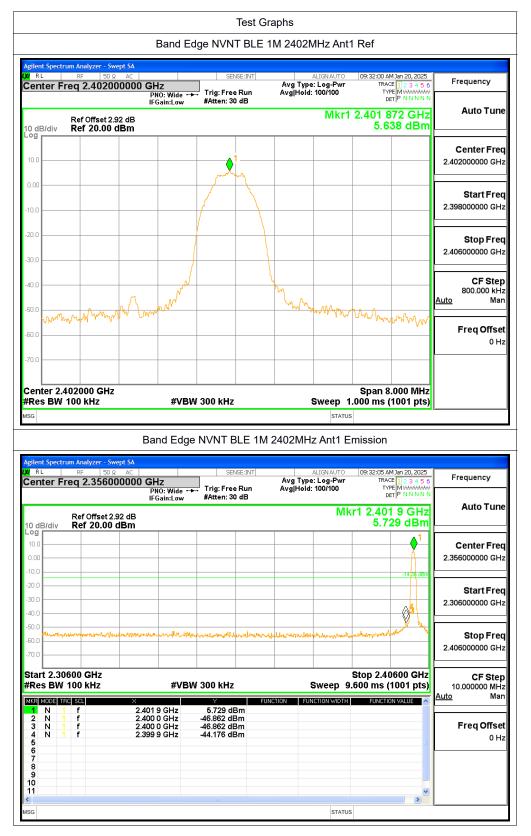


Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
		2402		-49.81	-20	Pass
	BLE 1M	2480	Anti	-56.18	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.77	-20	Pass
		2480		-54.45	-20	Pass

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RL	m Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGNAUTO	09:36:00 AM Jan 20, 2025 TRACE 1 2 3 4 5 6	Frequency
enter Fre	eq 2.48000000	J GHZ PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TYPE MWWWWW DET P N N N N N	
0 dB/div	Ref Offset 2.98 dB Ref 20.00 dBm	II Gam.Low		Mkr1	2.479 904 GHz 5.368 dBm	Auto Tuno
10.0						Center Free 2.480000000 GH
10.00						Start Free 2.476000000 GH
30.0						Stop Free 2.484000000 GH
40.0		- N		hy hy hy		CF Step 800.000 kH <u>Auto</u> Mar
50.0 •••••••• 60.0	month	mulation			Marmannergan	Freq Offse 0 H
≉Res BW 1	80000 GHz 00 kHz	#VBM	/ 300 kHz		Span 8.000 MHz .000 ms (1001 pts)	
FRes BW 1 sg gilent Spectrur g RL	00 kHz m Analyzer - Swept SA RF 50 Ω AC	Band Edge		STATUS 1 2480MHz Ant1 E ALIGNAUTO	.000 ms (1001 pts)	Frequency
glent Spectrum RL Center Fre	00 kHz m Analyzer - Swept SA RF 50 2 AC eq 2.526000000	Band Edge		ALIGNAUTO Avg Type: Log-Pwr AvgHold: 100/100	.000 ms (1001 pts) mission	
ellent Spectrur RL Center Fre	00 kHz m Analyzer - Swept SA RF 50 Ω AC	Band Edge) GHz PN0: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 100/100	.000 ms (1001 pts) mission	Auto Tun Center Free
Image: second	00 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.526000000 Ref Offset 2.98 dB Ref 20.00 dBm	Band Edge D GHz PN0: Wide → IFGain:Low	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr AvgHold: 100/100	.000 ms (1001 pts) mission	Auto Tune Center Free 2.52600000 GH Start Free
Image: set	00 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.526000000 Ref Offset 2.98 dB Ref 20.00 dBm	Band Edge) GHz PN0: Wide ↔	SENSE:INT	AUGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk	.000 ms (1001 pts) mission	
Building Billing <	00 kHz	Band Edge	NVNT BLE 1V	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk	.000 ms (1001 pts)	Auto Tune Center Free 2.526000000 GH Start Free 2.476000000 GH Stop Free 2.576000000 GH CF Step 10.000000 MH
Image: second	00 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.526000000 Ref Offset 2.98 dB Ref 20.00 dBm	Band Edge	NVNT BLE 1V	Aug Type: Log Pwr Avg Type: Log Pwr AvgHold: 100/100 Mk	.000 ms (1001 pts)	Auto Tune Center Freq 2.52600000 GH Start Freq 2.47600000 GH Stop Freq 2.57600000 GH CF Step 10.00000 MH Auto Freq Offse
Image: Sector of the	00 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.526000000 Ref Offset 2.98 dB Ref 20.00 dBm	Band Edge O GHz PNO: Wide → IFGain:Low 3 #VEV 479 9 GHz .479 9 GHz .500 0 GHz	SENSE:INT Trig: Free Run #Atten: 30 dB	Aug Type: Log Pwr Avg Type: Log Pwr AvgHold: 100/100 Mk	.000 ms (1001 pts)	Auto Tune Center Free 2.526000000 GH Start Free 2.476000000 GH Stop Free 2.576000000 GH CF Step 10.000000 MH

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A <mark>gilent Spec</mark> ØRL	t <mark>rum Analyzer - Sw</mark> RF 50 Ω			SENSE:IN	z	ALIGN AUTO	00-20-57 4M	1 Jan 20, 2025	[
	Freq 2.40200	00000 GHz	: :Wide ↔	Trig: Free Rur	Avg Type	e: Log-Pwr	TRACI	E 1 2 3 4 5 6	Frequency
0 dB/div	Ref Offset 2.9 Ref 20.00 (IFGa 92 dB	in:Low	#Atten: 30 dB		Mkr1	2.402 0	72 GHz 72 dBm	Auto Tune
.og 10.0				1					Center Free 2.402000000 GH
0.00				month	m				Start Free 2.398000000 GH
20.0									Stop Fre 2.406000000 GH
10.0		- And			\	hulan			CF Stej 800.000 kH <u>Auto</u> Mai
50.0 h 50.0 50.0	maynarma					V Work	N. Lur W.	Monthal	Freq Offse 0 H
enter ?	402000 GH-						Snan ^o	000 MH-	
Res BW		ept SA	d Edge	V 300 KHZ	2M 2402MH	ALIGNAUTO	.000 ms (1 mission	1Jan 20, 2025	Frequency
Res BW	trum Analyzer - Sw	ept SA AC DOOOO GHz PNO IFGa 92 dB	d Edge		2M 2402MH т Ауд Турч	STATUS Z ANTI EI ALIGNAUTO E: Log-Pwr : 100/100	0000 ms (* mission 09:39:02 AM TRACI TYP DE r1 2.402	13an 20, 2025 12 3 4 5 6 12 3 4 5 6 12 3 4 5 6 12 N N N N 2 0 GHz	
Res BW	trum Analyzer - Sw RF 50 Q Freq 2.35600	ept SA AC DOOOO GHz PNO IFGa 92 dB	d Edge : : Wide ↔	SENSE:IN	2M 2402MH	STATUS Z ANTI EI ALIGNAUTO E: Log-Pwr : 100/100	0000 ms (* mission 09:39:02 AM TRACI TYP DE r1 2.402	1301 pts)	Auto Tun Center Free
Res BW 3G gilent Spect RL center F 0 dB/div 0.00 0.00 0.00 0.00 0.00 0.00 0.00	trum Analyzer - Sw	ept SA AC DOOOO GHz PNO IFGa 92 dB	d Edge : : Wide ↔	SENSE:IN	2M 2402MH	STATUS Z ANTI EI ALIGNAUTO E: Log-Pwr : 100/100	0000 ms (* mission 09:39:02 AM TRACI TYP DE r1 2.402	13an 20, 2025 12 3 4 5 6 12 3 4 5 6 12 3 4 5 6 12 N N N N 2 0 GHz	Auto Tun Center Free 2.35600000 GH Start Free
Res BW ssg glent Spect RL glent Spect content of the spect	trum Analyzer - Sw RF 50 Ω Freq 2.35600 Ref Offset 2. Ref 20.00 f	ept SA AC PRO PRO IFGa 92 dB dBm	d Edge : : Wide ↔	NVNT BLE SENSE:IN Trig: Free Rur #Atten: 30 dB	2M 2402MH	STATUS z Ant1 Er ALIGNAUTO :: Log-Pwr : 100/100	000 ms (* mission 19:39:02 AM TRACI TRACI TRACI 17:402 4.12	1301 pts)	Frequency Auto Tune 2.356000000 GH Start Free 2.306000000 GH
Res BW 3G glient Spect RL center F 0 dB/div	x 100 kHz trum Analyzer - Sw RF S0 Ω Freq 2.35600 Ref Offset 2.: Ref 20.00 f Ref 20.00 f Comparison of the second	AC DOOD GH2 PNO IFGa 92 dB dBm	d Edge : Wide ↔ in:Low #VBM	NVNT BLE	2M 2402MH	ALIGNAUTO 2 Ant1 El ALIGNAUTO 2 Log-Pwr 100/100 Mk	000 ms (* mission 09:39:02 AM TRACI TVV 0E r1 2.402 4.12	1001 pts)	Auto Tune Center Free 2.356000000 GH Start Free 2.306000000 GH Stop Free
Res BW ss	trum Analyzer - Sw الله الله الله الله الله الله الله الله	ept SA AC PRO PRO IFGa 92 dB dBm	d Edge :: Wide → in:Low #VBM GHz GHz GHz GHz	NVNT BLE	2M 2402MH	xATUS z Ant1 El 2 LignAuto 2 Log-Pwr 100/100 Mk	000 ms (* mission 09:39:02 AM TRACI TVV 0E r1 2.402 4.12	1001 pts)	Auto Tuno Center Free 2.35600000 GH Start Free 2.306000000 GH Stop Free 2.406000000 GH

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	m Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN AUTO	09:44:15 AM Jan 20, 2025	
	eq 2.48000000	0 GHz PNO: Wide +-	► Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
0 dB/div	Ref Offset 2.98 dB Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB	Mkr1	2.480 080 GHz 3.268 dBm	Auto Tun
og 10.0			1			Center Fre 2.480000000 GH
0.00			www.	h h		Start Fre 2.47600000 GH
20.0						Stop Fre
0.0						2.484000000 GH
	www.www.	plor"		When have and	mmmunnmm	800.000 kH <u>Auto</u> Ma
:0.0						Freq Offse 0 H
'0.0						
	80000 GHz 100 kHz	#VBI	W 300 kHz	Sweep 1	Span 8.000 MHz .000 ms (1001 pts)	
center 2.4 Res BW 1				Sweep 1 status // 2480MHz Ant1 E	.000 ms (1001 pts)	
Res BW 1	M Analyzer - Swept SA	Band Edg	e NVNT BLE 2N	STATUS	000 ms (1001 pts)	Frequency
Res BW 1	100 kHz m Analyzer - Swept SA RF 50 Ω AC	Band Edg		A 2480MHz Ant1 E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	.000 ms (1001 pts) mission	Frequency Auto Tun
glent Spectru RL RL OdB/div OdB/div	100 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.52600000 Ref Offset 2.98 dB	Band Edg	e NVNT BLE 2N	A 2480MHz Ant1 E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	09:44:19 AM Jan 20, 2025 TRACE 11:3 45 6 TRACE 11:3 45 6 TYPE MWWWWWW DET P NNNN r1 2.480 1 GHz 3.653 dBm	Auto Tun Center Fre
ilent Spectru	m Analyzer - Swept SA RF 50 Ω Q2,526000000 Ref Offset 2.98 dB Ref 20.00 dBm	Band Edg	e NVNT BLE 2N	A 2480MHz Ant1 E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts) mission 09:44:19 AM Jan 20, 2025 TRACE [1:23 4 5 6 TYPE [MWWWWW DET [P. N.N.N.N PT 2.480 1 GHz	Auto Tun Center Fre 2.526000000 GH Start Fre
Res BW 1 sg glent Spectru RL enter Fri 90 100 9100 9200 100	100 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.52600000 Ref Offset 2.98 dB	Band Edg	e NVNT BLE 2N	A 2480MHz Ant1 E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts)	Auto Tun Center Fre 2.52600000 GH Start Fre 2.476000000 GH Stop Fre
odB/div 0 rs 0 enter Fre 0 enter	100 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.526000000 Ref 20.00 dBm 4 500 GHz 100 kHz	Band Edg	e NVNT BLE 2N	A 2480MHz Ant1 E	000 ms (1001 pts) mission 09:44:19 AM Jan 20, 2025 TRACE [1: 3 4 5 6 TYPE [MWWWWWW VEF [MWWWWW VEF [MWWWWW VEF [MWWWWWW T1 2.480 1 GHz 3.653 dBm 	Auto Tun Center Fre 2.52600000 GF 2.47600000 GF 2.57600000 GF 2.57600000 GF CF Ste 10.00000 MF
Silent Spectru Res BW 1 Silent Spectru RL enter Fre 0 dB/div 9 0 dD/div 9 10 0 10 0 10 0 10 0 10 0 10 0 10 0 10 0 11 0 12 N 12 N 13 N 4 N	Image: Second state stat	Band Edg	e NVNT BLE 2N	A 2480MHz Ant1 E ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk	000 ms (1001 pts) mission ۱۹۹۹: ۱۹۹۸ که ۲۵, ۲۵۹۵ که ۱۹۹۹ که ۲۶۹۹ که ۲۶۹۹ که ۲۶۹۹ که ۲۹۹۹ که ۲۹۹۹ که ۲۹۹۹ که ۲۹۹۹ که ۲۹۹۹ کو ۲۹۹ کو ۲۹۹۹ کو ۲۹۹۹ کو ۲۹۹۹ کو ۲۹۹۹ کو ۲۹	Auto Tun Center Fre 2.526000000 GH 2.476000000 GH 2.576000000 GH 2.576000000 GH 0.000000 MH Auto Ma
glent Spectru RL RL enter Fra 0 dB/div 0 dB	I00 kHz m Analyzer - Swept SA RF 50 Ω AC eq 2.52600000 Ref 0ffset 2.98 dB Ref 20.00 dBm 500 GHz 500 GHz 100 kHz 510 kHz 521 X	Band Edg	e NVNT BLE 2N SENSE:INT Trig: Free Run #Atten: 30 dB Automatic Stress of the sense of the	A 2480MHz Ant1 E	000 ms (1001 pts) mission 09:44:19 AM Jan 20, 2025 TRACE [1: 3 4 5 6 TYPE [MWWWWWW VEF [MWWWWW VEF [MWWWWW VEF [MWWWWWW T1 2.480 1 GHz 3.653 dBm 	Auto Tun Center Fre 2.52600000 GH Start Fre 2.47600000 GH Stop Fre 2.57600000 GH

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Restricted band Measurement

EUT	Unmanned Aircraft			Model	D-Series 313			
Mode	Keeping Transmitting			Test Voltage	DC22.2V			
Temperature	24 deg. C,			Humidity	56% RH			
Test Result:	Pass			Detector	РК			
	BLE-1M, Low Channel, Horizontal							
2390	PK (dBµV/m)	43.26		T :	74(dBµV/m)			
	AV (dBμV/m)			Limit	54(dBµV/m)			
BLE-1M, Low Channel Vertical								
2390	PK (dBµV/m)	42.07		T :	74(dBµV/m)			
	AV ($dB\mu V/m$)		1	Limit	54(dBµV/m)			

Restricted band Measurement

EUT	Unmanned Aircraft			Model		D-Series 313	
Mode	Keeping Transmitting			Test Voltage		DC22.2V	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			Detector		РК	
BLE-1M, High Channel, Horizontal							
2483.5	PK (dBμV/m) 51.77			·,		74(dBµV/m)	
	AV (dBµV/m) Limi			IT	54(dBµV/m)		
BLE-1M, High Channel, Vertical							
2483.5	PK (dBµV/m)	47.63	т :;		74(dBµV/m)		
	AV ($dB\mu V/m$)		Limi	It	54(dBµV/m)		

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Restricted band Measurement

EUT	Unmanned Aircraft			Model		D-Series 313	
Mode	Keeping Transmitting			Test Voltage		DC22.2V	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			Detector		РК	
BLE-2M, Low Channel, Horizontal							
2390	PK (dBμV/m) 43.86				74(dBµV/m)		
	$AV (dB\mu V/m)$			mt	54(dBµV/m)		
BLE-2M, Low Channel Vertical							
2390	PK (dBµV/m)	42.35	Limit			74(dBµV/m)	
	AV (dBμV/m)		m	54(dBµV/m)			

Restricted band Measurement

EUT	Unmanned Aircraft			Model		D-Series 313	
Mode	Keeping Transmitting			Test Voltage		DC22.2V	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:	Pass			Detector		РК	
BLE-2M, High Channel, Horizontal							
2483.5	PK (dBμV/m) 52.67					74(dBµV/m)	
	AV (dBμV/m) Lim			IT		54(dBµV/m)	
BLE-2M, High Channel, Vertical							
2483.5	PK (dBµV/m)	48.83	Limit		,	74(dBµV/m)	
	AV ($dB\mu V/m$)				:	54(dBµV/m)	

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is 4.54dBi (Get from the antenna specification provided the manufacturer)

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12.0 FCC ID Label

FCC ID: 2BM3J-D313

This device complies with Part 15 of the FCC Rules. Operation is subject to the

following two conditions: (1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



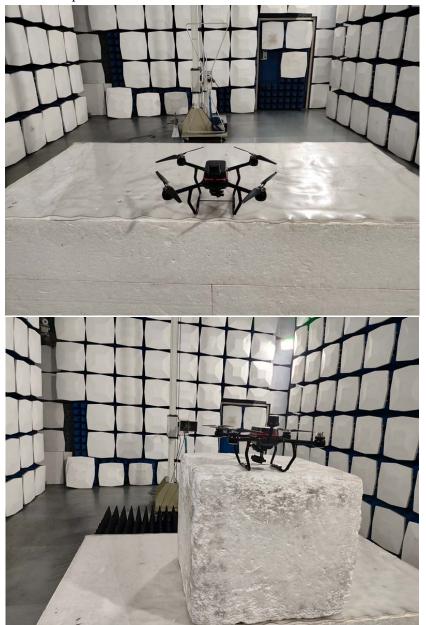
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13.0 Photo of testing

Conducted Emission Test Setup: N/A Radiated Emission Test Setup:



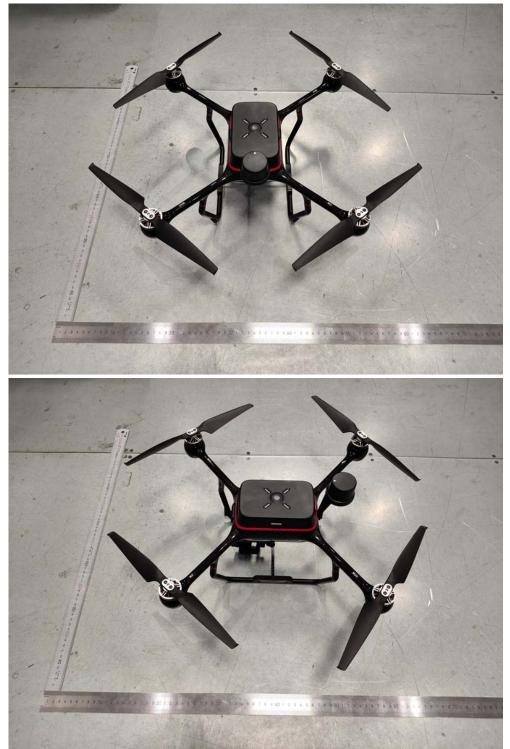
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Photographs – EUT

Outside View



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Outside View



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Outside View



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Outside View



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Outside View



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Inside View

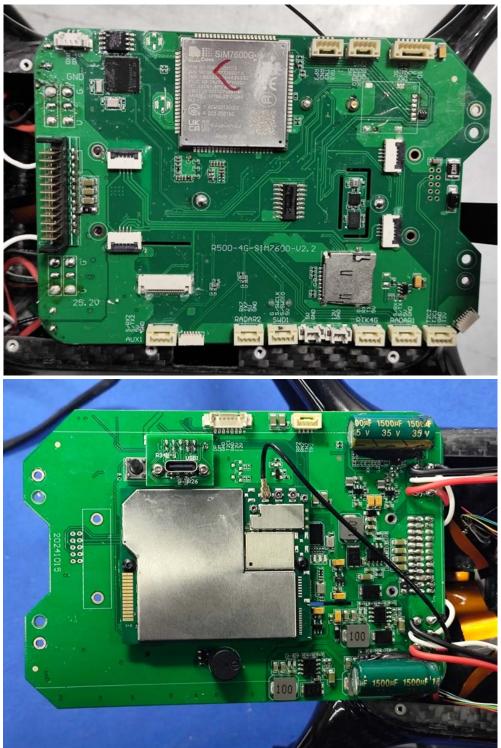


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Inside View

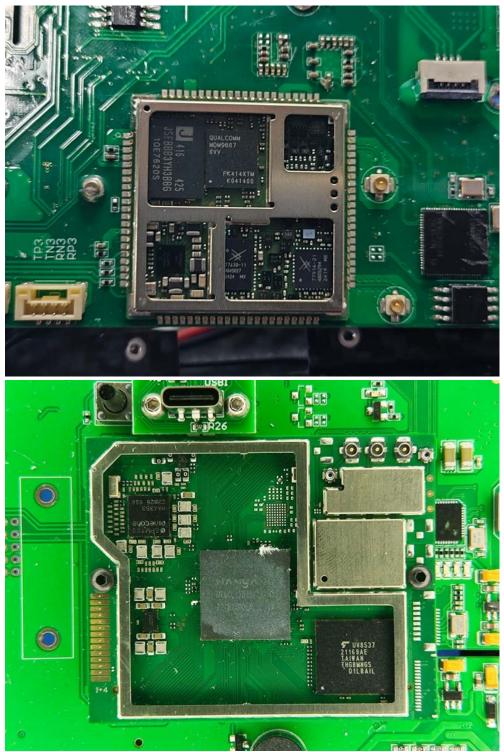


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Inside View



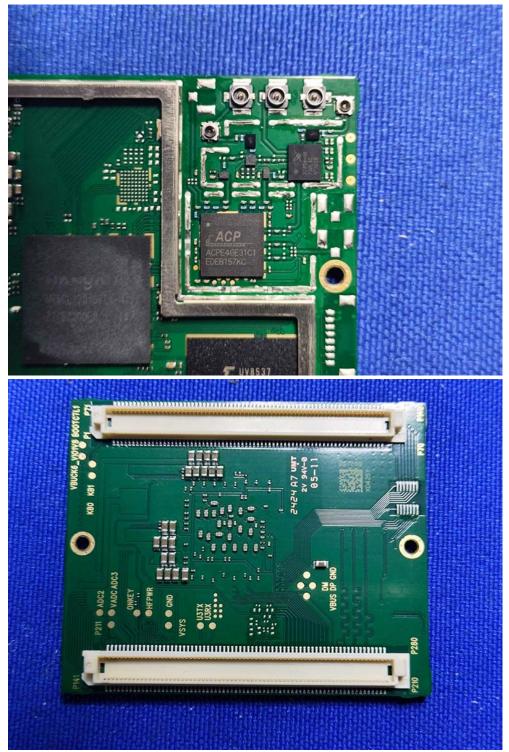
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Inside View

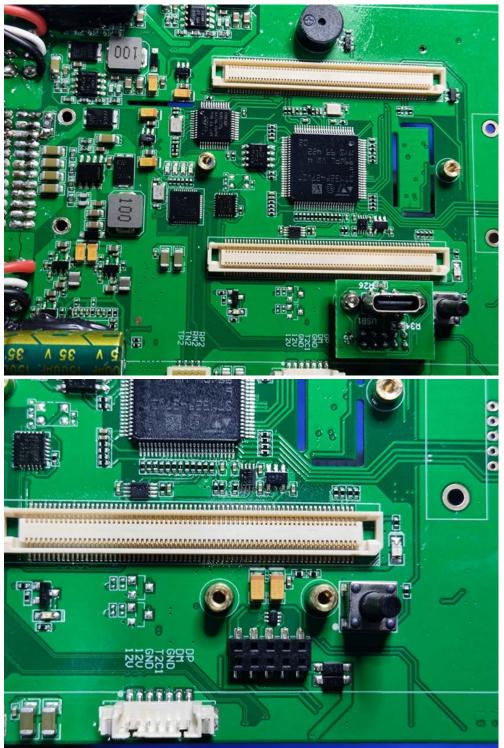


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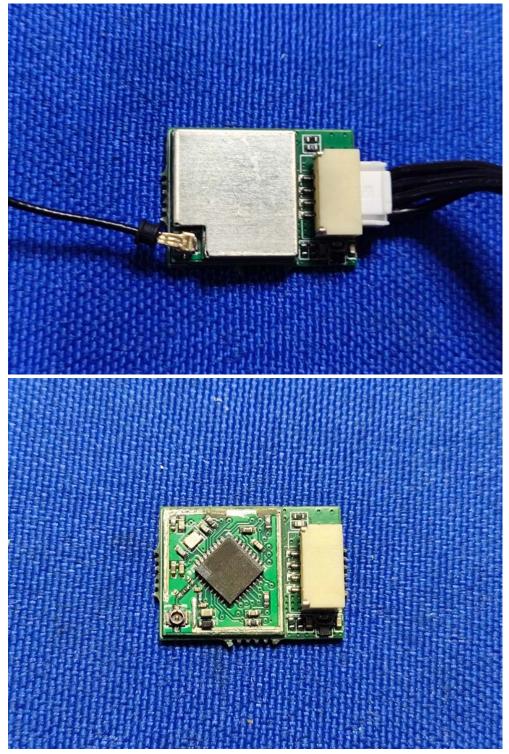


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Inside View

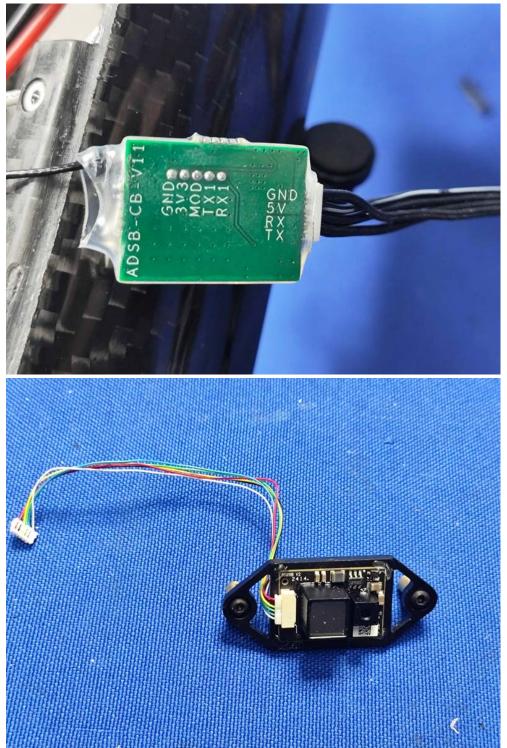


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Inside View

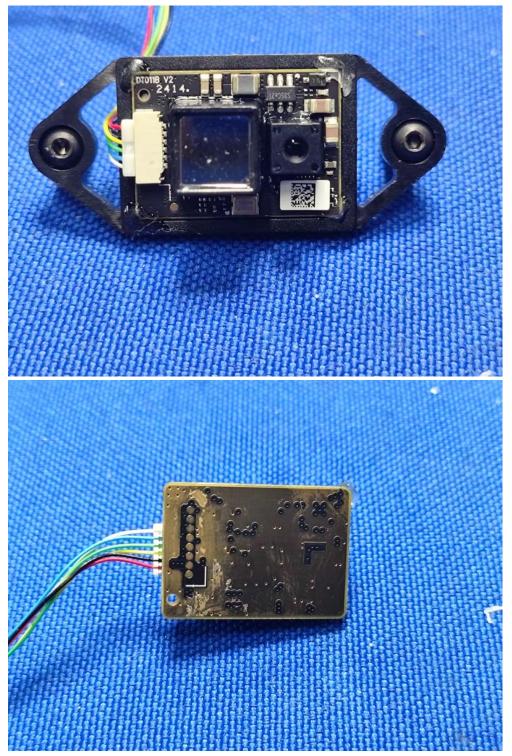


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Inside View

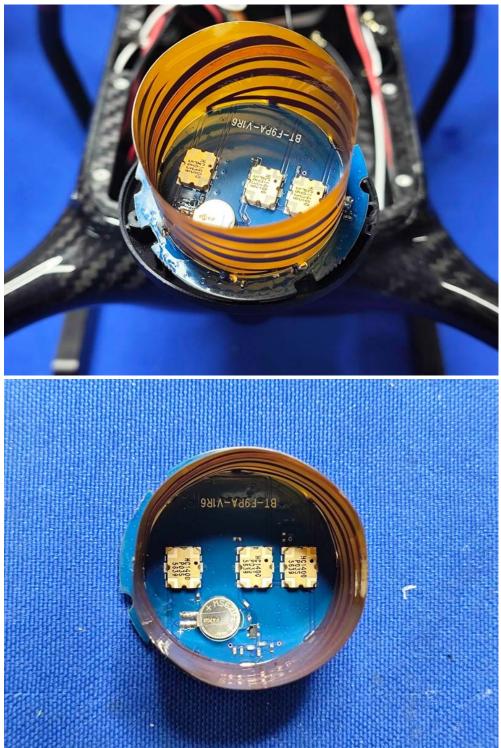


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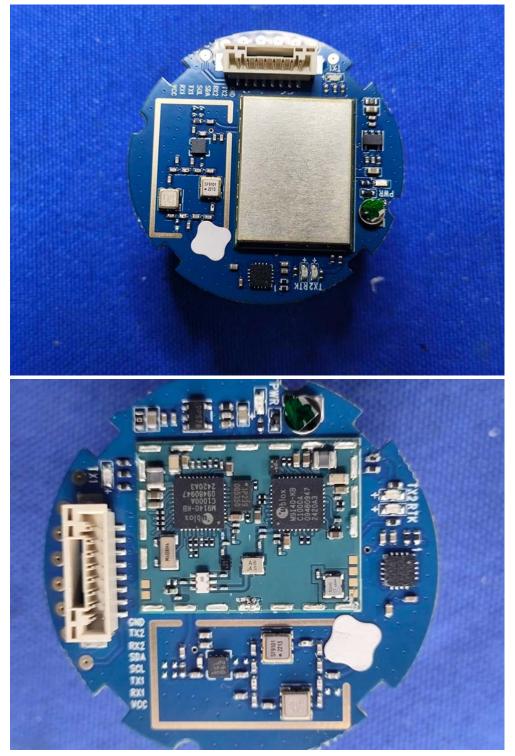


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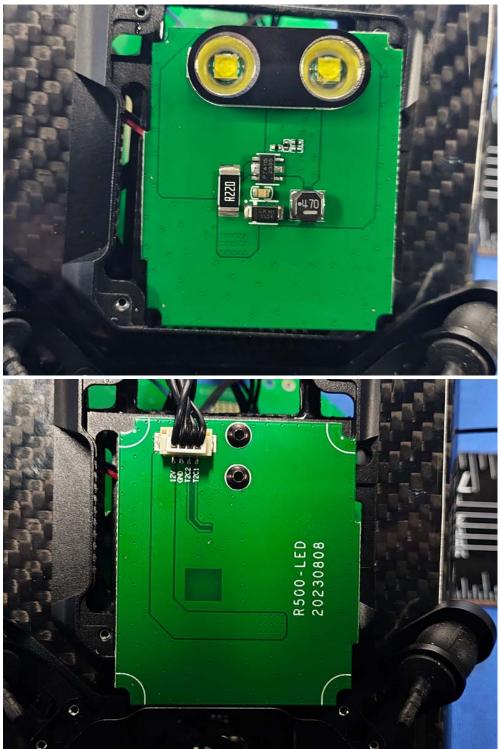
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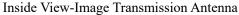
Inside View

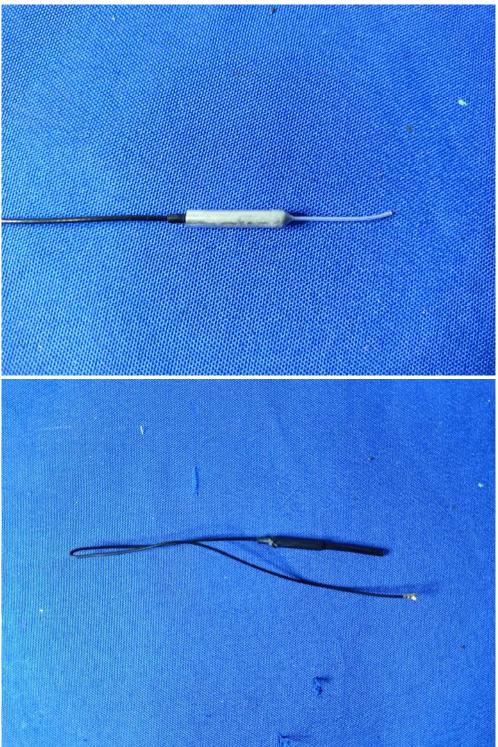


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End of the report

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