



FCC Test Report

FCC ID	:	2AWC2-SRDT101
Equipment	:	NUWA Service Robot - Collibot
Model No.	:	SR-DT101
Brand Name	:	NUWA ROBOTICS
Applicant	:	NUWA ROBOTICS (HK) LIMITED TAIWAN BRANCH
Address	:	6F., No. 102, Dunhua N. Rd., Songshan Dist., Taipei City
Standard	:	47 CFR FCC Part 15.247
Received Date	:	Nov. 20, 2023
Tested Date	:	Nov. 20 ~ Dec. 08, 2023

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:

Along Cherd/ Assistant Manager

Gary Chang / Manager



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information	5
1.2	Local Support Equipment List	7
1.3	Test Setup Chart	7
1.4	Test Equipment List and Calibration Data	8
1.5	Test Standards	9
1.6	Reference Guidance	9
1.7	Deviation from Test Standard and Measurement Procedure	9
1.8	Measurement Uncertainty	9
2	TEST CONFIGURATION	10
2.1	Testing Facility	10
2.2	The Worst Test Modes and Channel Details	10
3	TRANSMITTER TEST RESULTS	11
3.1	6dB and Occupied Bandwidth	11
3.2	Conducted Output Power	12
3.3	Power Spectral Density	13
3.4	Unwanted Emissions in Restricted Frequency Bands	14
3.5	Emissions in non-restricted Frequency Bands	16
3.6	AC Power Line Conducted Emissions	17
4	TEST LABORATORY INFORMATION	18

- Appendix A. 6dB and Occupied Bandwidth
- Appendix B. Conducted Output Power
- Appendix C. Power Spectral Density
- Appendix D. Unwanted Emissions into Restricted Frequency Bands
- Appendix E. Emissions in Non-Restricted Frequency Bands
- Appendix F. AC Power Line Conducted Emissions



Release Record

Report No.	Version	Description	Issued Date
FR3O3001-02AE	Rev. 01	Initial issue	Sep. 23, 2024



Summary of Test Results

FCC Rules	Test Items	Measured	Result	
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.358MHz 34.58 (Margin -14.20dB) - AV	Pass	
15.247(d)	Unwanted Emissions	[dBuV/m at 3m]: 485.90MHz	Pass	
15.209		42.82 (Margin -3.18dB) - PK	1 835	
15.247(b)(3)	Conducted Output Power	Power [dBm]: 2.07	Pass	
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass	
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass	
15.203	Antenna Requirement	Meet the requirement of limit	Pass	

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)Bluetooth ModeCh. Freq. (MHz)Channel NumberData Rate							
2400 2482 5		2402 2490	0.20[40]	1 Mbps			
2400-2483.5 LE 2402-2480 0-39 [40]							
Note: Bluetooth LE (L	ow energy) uses GFS	SK modulation.					

1.1.2 Antenna Details

Ant. No.	Brand	Model	Туре	Connector	Gain (dBi)
1	INPAQ	WA-P-LB-03-162	PCB	No	2.47

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Slippiv Ivne	28.0Vdc from adapter 25.6Vdc from battery
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1.1.4 Accessories

	Accessories					
No. Equipment Description						
1	AC adapter	Brand: TC-TEK Model: FY28010000 I/P: 100-240V~50/60Hz 4A 350VA O/P: 28.0V-10.0A 280.0W Power Line: DC 1m non-shielded with one core AC 1.2m non-shielded without core				
2	charging cradle	Brand: Matsutek Model: RVDS-NW01BK				
3	Li-ion Battery	Brand: Moai Model: NW-8S5P Battery rated capacity: 30Ah/768Wh Battery nominal voltage: 25.6V				



1.1.5 Channel List

	Frequency	band (MHz)		2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, v4.0			
Modulation Mode	Duty Cycle (%)	Duty Factor (dB)		
BT-LE(1Mbps)	88.44%	0.53		
BT-LE(2Mbps)	60.18%	2.21		

1.1.7 Power Index of Test Tool

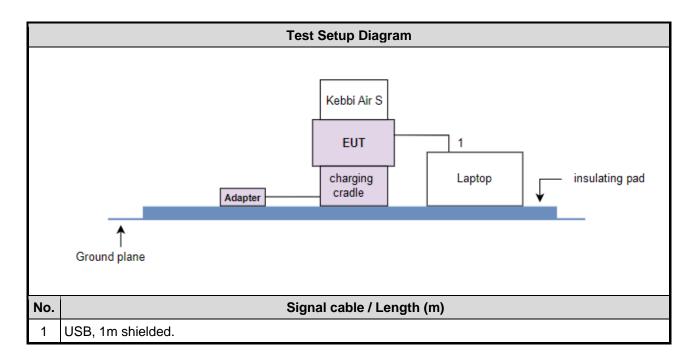
Medulation Meda	Test Frequency (MHz)				
Modulation Mode	2402	2440	2480		
BT-LE(1Mbps)	default	default	default		
BT-LE(2Mbps)	default	default	default		



1.2 Local Support Equipment List

	Support Equipment List						
No.	No. Equipment Brand Model FCC ID Remarks						
1	Kebbi Air S	NUWAROBOTICS	AIR-H203		Provided by applicant.		
2	Laptop	DELL	Latitude E5470	DoC			

1.3 Test Setup Chart





Test Equipment List and Calibration Data 1.4

Test Item	Conducted Emission					
Test Site	Conduction room 1 / (Conduction room 1 / (CO01-WS)				
Tested Date	Dec. 08, 2023					
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	
Receiver	R&S	ESR3	101658	Feb. 17, 2023	Feb. 16, 2024	
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024	
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024	
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 03, 2023	Jan. 02, 2024	
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024	
Measurement Software	Sporton	SENSE-EMI	V5.11.6	NA	NA	
Note: Calibration Inter	rval of instruments liste	d above is one year.		•	•	

Test Item	Radiated Emission					
Test Site	966 chamber1 / (03Cl	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 20 ~ Dec. 05, 20	23				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	
Receiver	R&S	ESR3	101657	Mar. 03, 2023	Mar. 02, 2024	
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024	
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024	
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 31, 2023	Jul. 30, 2024	
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 01, 2023	Aug. 31, 2024	
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024	
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 2024	
Preamplifier	EMC	EMC118A45SE	980898	Jul. 14, 2023	Jul. 13, 2024	
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024	
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024	
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 03, 2023	Oct. 02, 2024	
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 03, 2023	Oct. 02, 2024	
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 03, 2023	Oct. 02, 2024	
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 03, 2023	Oct. 02, 2024	
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 03, 2023	Oct. 02, 2024	
Attenuator	Pasternack	PE7005-10	10-1	Oct. 05, 2023	Oct. 04, 2024	
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 05, 2023	Oct. 04, 2024	
Measurement Software	AUDIX	e3	6.120210g	NA	NA	
Note: Calibration Inter	rval of instruments liste	d above is one year.				



Test Item	RF Conducted	RF Conducted				
Test Site	(TH01-WS)	(TH01-WS)				
Tested Date	Dec. 06 ~ Dec. 07, 2	023				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until	
Spectrum Analyzer	R&S	FSV40	101910	Apr. 14, 2023	Apr. 13, 2024	
Power Meter	Anritsu	ML2495A	1241001	Jan. 11, 2023	Jan. 10, 2024	
Power Sensor	Anritsu	MA2411B	1911228	Jan. 11, 2023	Jan. 10, 2024	
Attenuator	Pasternack	PE7005-10	10-2	Oct. 05, 2023	Oct. 04, 2024	
Measurement Software	Sporton	SENSE-15247_FS	V5.10.8	NA	NA	

1.5 Test Standards

47 CFR FCC Part 15.247 ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty				
Parameters	Uncertainty			
Bandwidth	±34.130 Hz			
Conducted power	±0.808 dB			
Power density	±0.583 dB			
Conducted emission	±2.715 dB			
AC conducted emission	±2.92 dB			
Unwanted Emission ≤ 1GHz	±3.41 dB			
Unwanted Emission > 1GHz	±4.59 dB			



2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)
CCC Designation No.	T.W0700

FCC Designation No.: TW2732

➢ FCC site registration No.: 181692

➢ ISED#: 10807A

➤ CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Test Configuration
AC Power Line Conducted Emissions	BT-LE(2Mbps)	2480	
Unwanted Emissions ≤ 1GHz	BT-LE(2Mbps)	2480	
Unwanted Emissions > 1GHz	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480 2402, 2440, 2480	
Conducted Output Power 6dB bandwidth Power spectral density	BT-LE(1Mbps) BT-LE(2Mbps)	2402, 2440, 2480 2402, 2440, 2480	



3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.1.2 Test Procedures

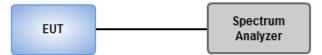
6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. 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 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = $1\% \sim 5\%$ of OBW, Video bandwidth = $3 \times RBW$
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	21 ~ 22°C / 63 ~ 68%	Tested By	Roger Lu

Refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	21 ~ 22°C / 63 ~ 68%	Tested By	Roger Lu

Refer to Appendix B.



3.3 **Power Spectral Density**

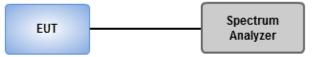
3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

- 1. Set the RBW = 3 kHz, VBW = 10 kHz.
- 2. Detector = Peak, Sweep time = auto couple.
- 3. Trace mode = max hold, allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

3.3.3 Test Setup



3.3.4 Test Results

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Refer to Appendix C.



3.4 Unwanted Emissions in Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions in Restricted Frequency Bands

Restricted Band Emissions Limit				
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)	
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300	
0.490~1.705	24000/F(kHz)	33.8 - 23	30	
1.705~30.0	30	29	30	
30~88	100	40	3	
88~216	150	43.5	3	
216~960	200	46	3	
Above 960	500	54	3	

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

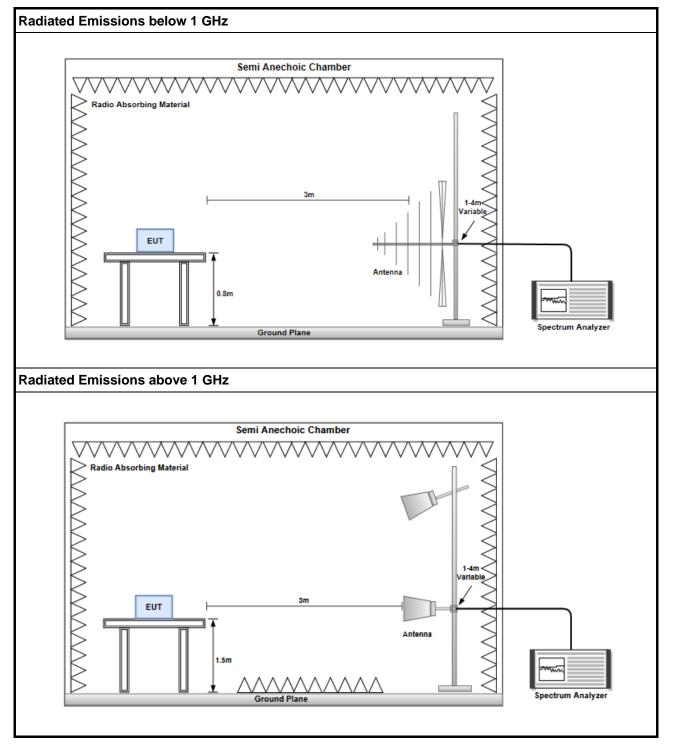
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.



3.4.3 Test Setup



3.4.4 Test Results

Refer to Appendix D.



3.5 Emissions in non-restricted Frequency Bands

3.5.1 Emissions in non-restricted frequency bands limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

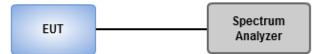
Reference level measurement

- 1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
- 2. Trace = max hold , Allow Trace to fully stabilize
- 3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

- 1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
- 2. Trace = max hold , Allow Trace to fully stabilize
- 3. Scan Frequency range is up to 25GHz
- 4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition 21 ~ 22°C / 63 ~ 68% Tested By Roger Lu	Ambient Condition	21 ~ 22°C / 63 ~ 68%	Tested By	Roger Lu
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Refer to Appendix E.



AC Power Line Conducted Emissions 3.6

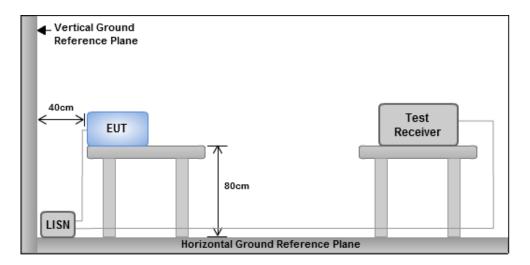
3.6.1 Limit of AC Power Line Conducted Emissions

Conducted Emissions Limit						
Frequency Emission (MHz)	Quasi-Peak	Average				
0.15-0.5	66 - 56 *	56 - 46 *				
0.5-5	56	46				
5-30 60 50						
Note 1: * Decreases with the logarit	Note 1: * Decreases with the logarithm of the frequency.					

3.6.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- The device is connected to line impedance stabilization network (LISN) and other accessories are 2. connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V/60Hz

3.6.3 Test Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.6.4 Test Results

Refer to Appendix F.



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <u>http://www.icertifi.com.tw</u>.

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666 No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.) No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0155 Email: ICC_Service@icertifi.com.tw

—END—



Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	670k	1.026M	1M03F1D	667.5k	1.025M
BT-LE(2Mbps)	1.163M	2.032M	2M03F1D	1.148M	2.03M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth; Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

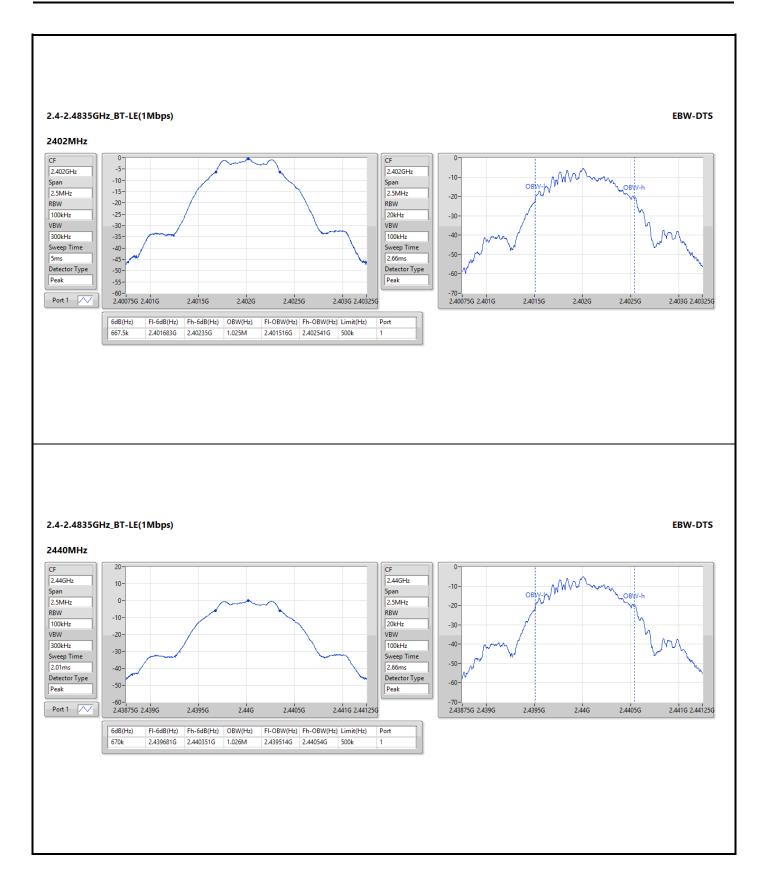
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	667.5k	1.025M
2440MHz	Pass	500k	670k	1.026M
2480MHz	Pass	500k	667.5k	1.026M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.148M	2.03M
2440MHz	Pass	500k	1.163M	2.03M
2480MHz	Pass	500k	1.148M	2.032M

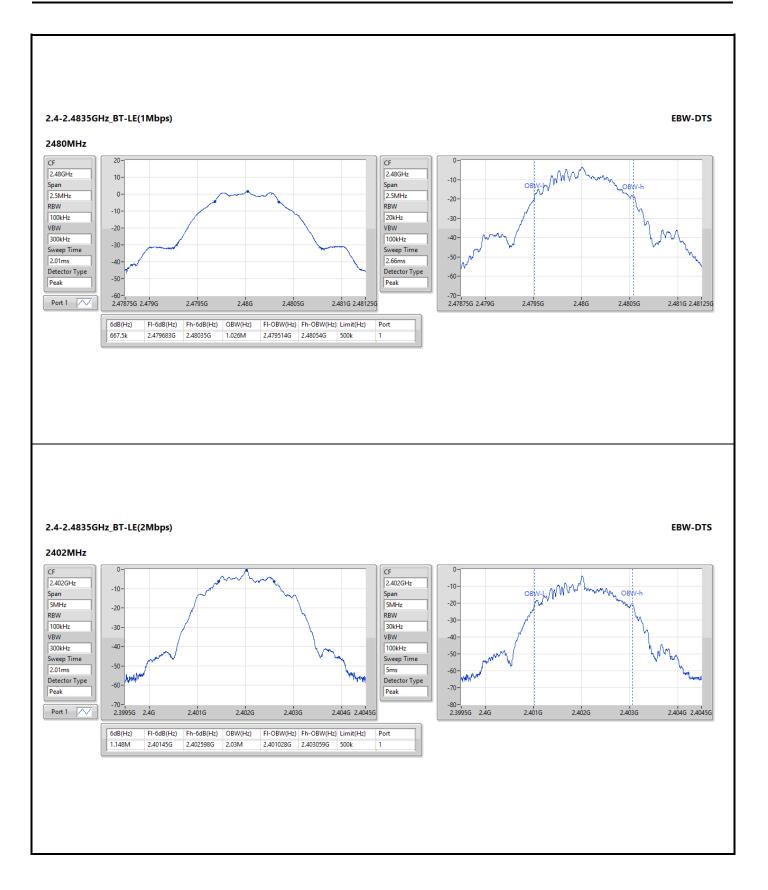
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

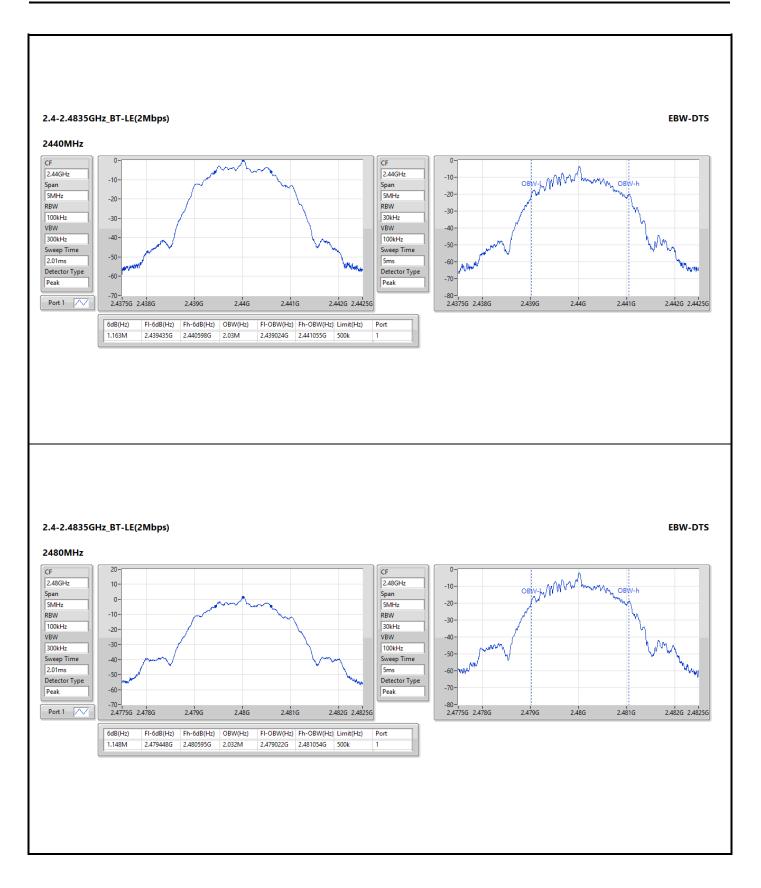














Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	1.88	0.00154
BT-LE(2Mbps)	2.07	0.00161

Result

Mode	Result	Antenna Gain	Total Power	Power Limit	EIRP	EIRP Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.47	0.08	30.00	2.55	36.00
2440MHz	Pass	2.47	0.58	30.00	3.05	36.00
2480MHz	Pass	2.47	1.88	30.00	4.35	36.00
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.47	0.26	30.00	2.73	36.00
2440MHz	Pass	2.47	0.77	30.00	3.24	36.00
2480MHz	Pass	2.47	2.07	30.00	4.54	36.00



Mode	Total Power (dBm)	Power (W)	
2.4-2.4835GHz	-	-	
BT-LE(1Mbps)	1.71	0.00148	
BT-LE(2Mbps)	1.66	0.00147	

Result

Mode	Result	Antenna Gain (dBi)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
BT-LE(1Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.47	-0.16	-	2.31	-
2440MHz	Pass	2.47	0.32	-	2.79	-
2480MHz	Pass	2.47	1.71	-	4.18	-
BT-LE(2Mbps)	-	-	-	-	-	-
2402MHz	Pass	2.47	-0.24	-	2.23	-
2440MHz	Pass	2.47	0.26	-	2.73	-
2480MHz	Pass	2.47	1.66	-	4.13	-

Note: Average power is for reference only.

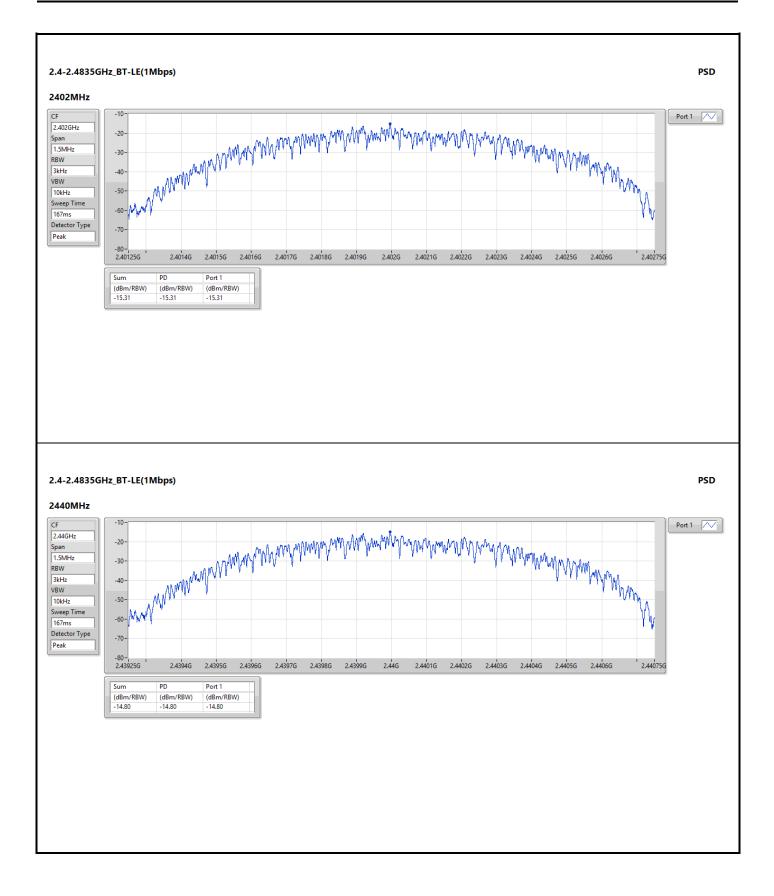


Mode	PD
	(dBm/3kHz)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-13.47
BT-LE(2Mbps)	-16.85

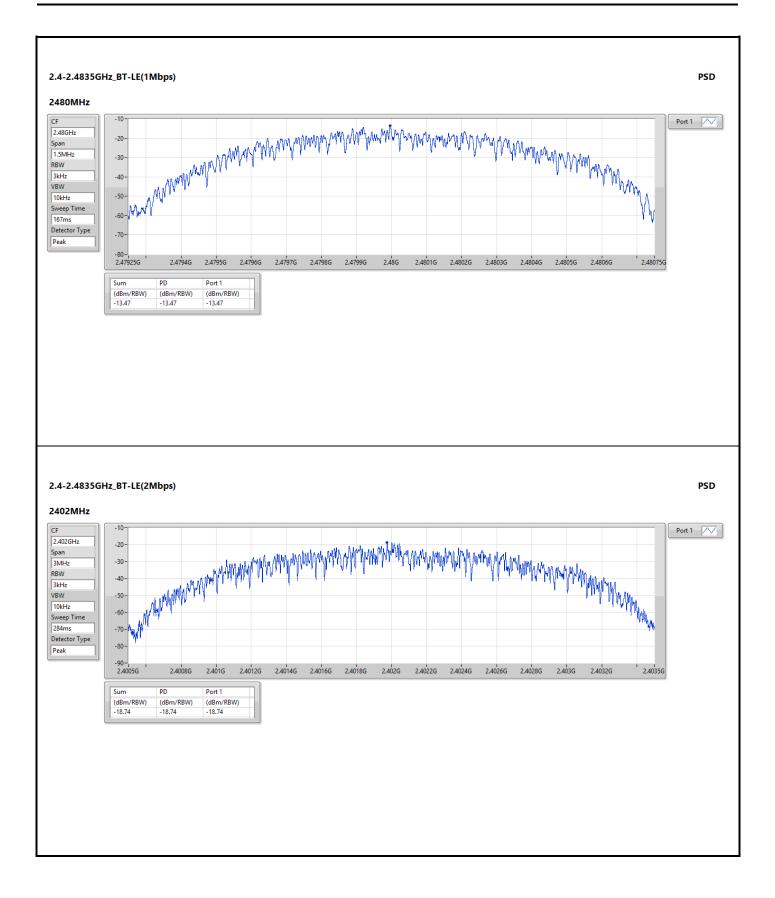
Result

Mode	Result	Antenna Gain (dBi)	Power Density (dBm/3kHz)	Power Density Limit (dBm/3kHz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.47	-15.31	8.00
2440MHz	Pass	2.47	-14.80	8.00
2480MHz	Pass	2.47	-13.47	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.47	-18.74	8.00
2440MHz	Pass	2.47	-18.22	8.00
2480MHz	Pass	2.47	-16.85	8.00

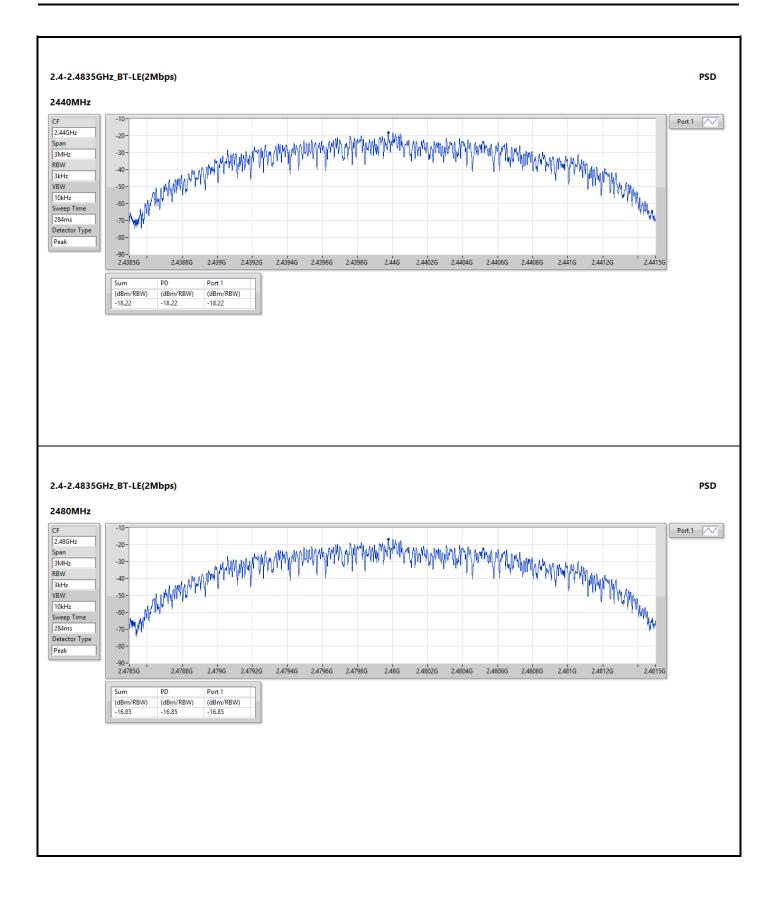






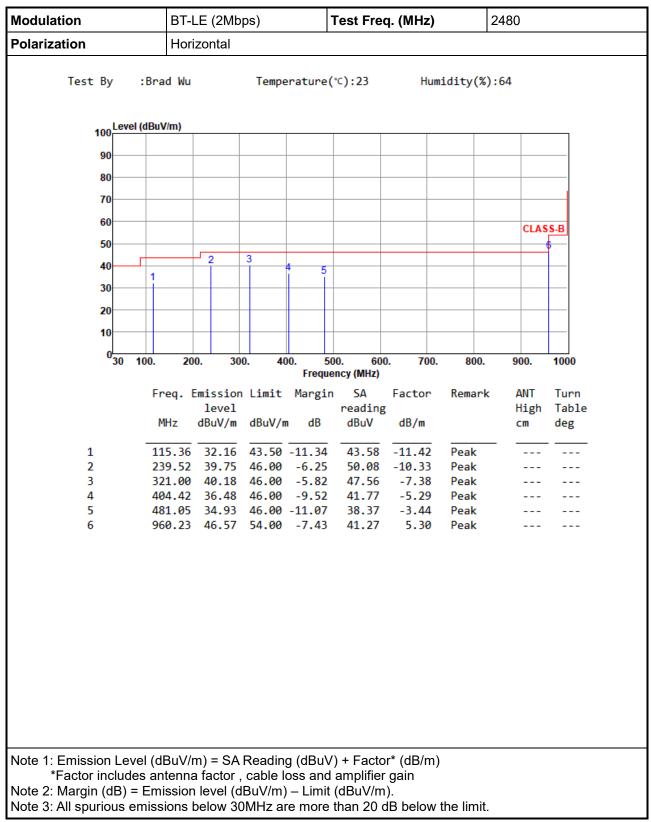




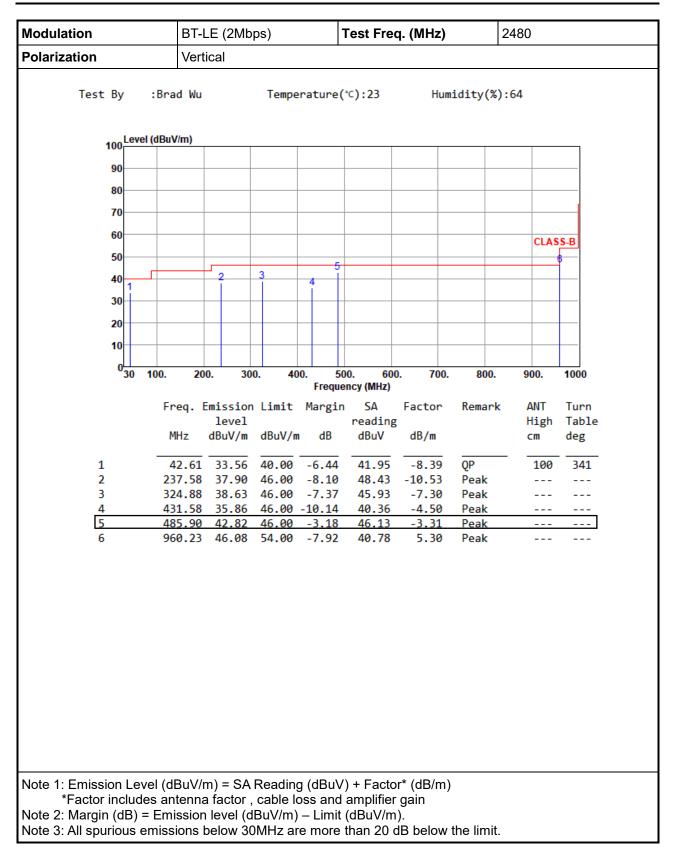




Unwanted Emissions (Below 1GHz)

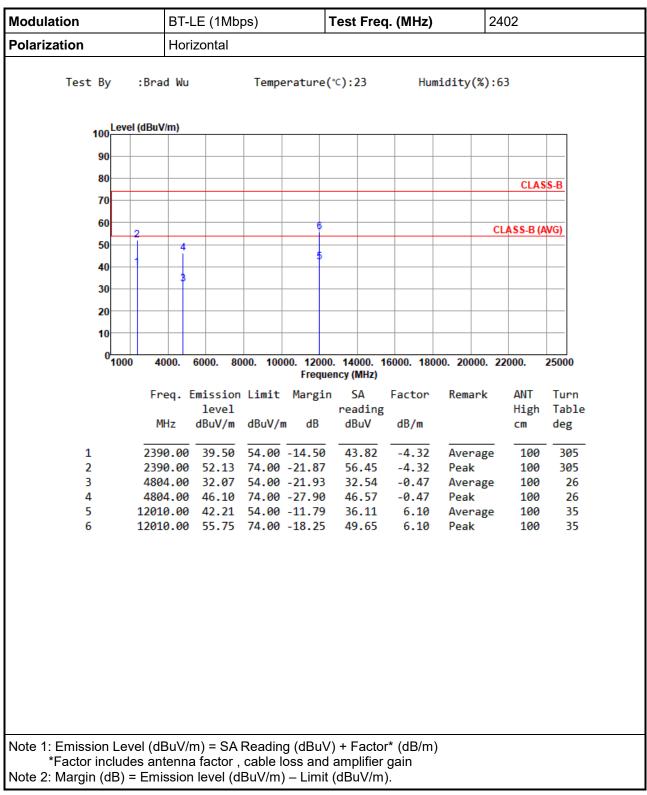




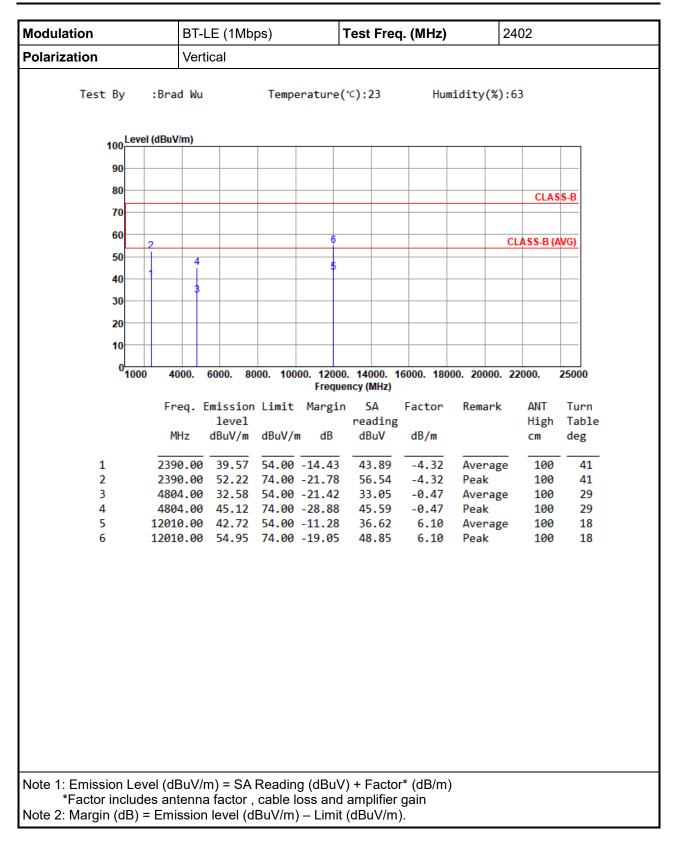




Unwanted Emissions (Above 1GHz)

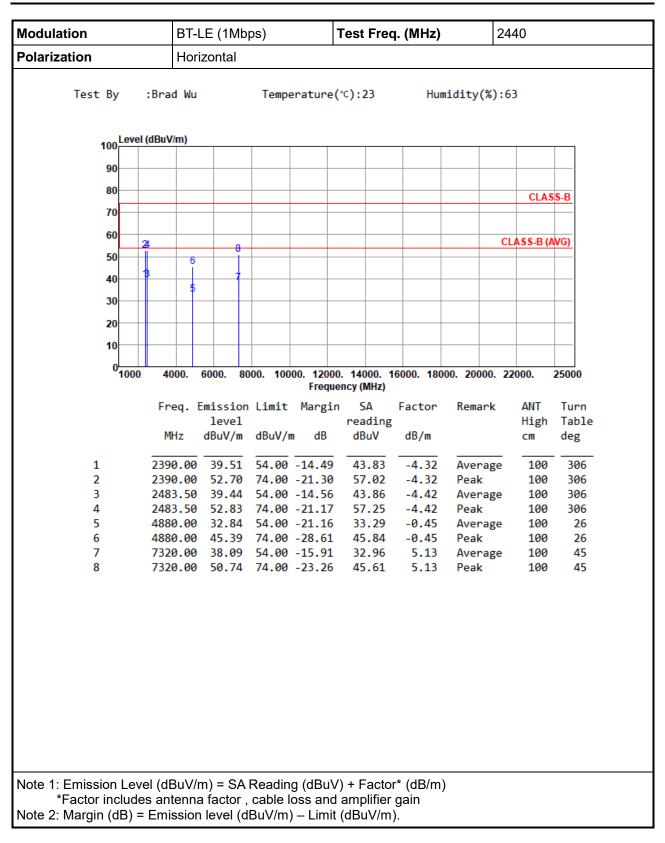




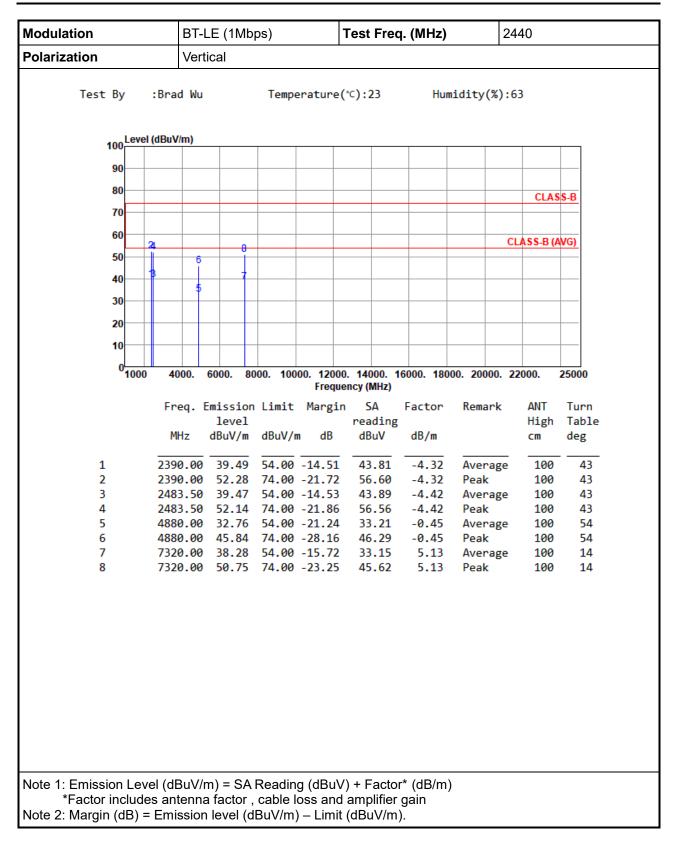




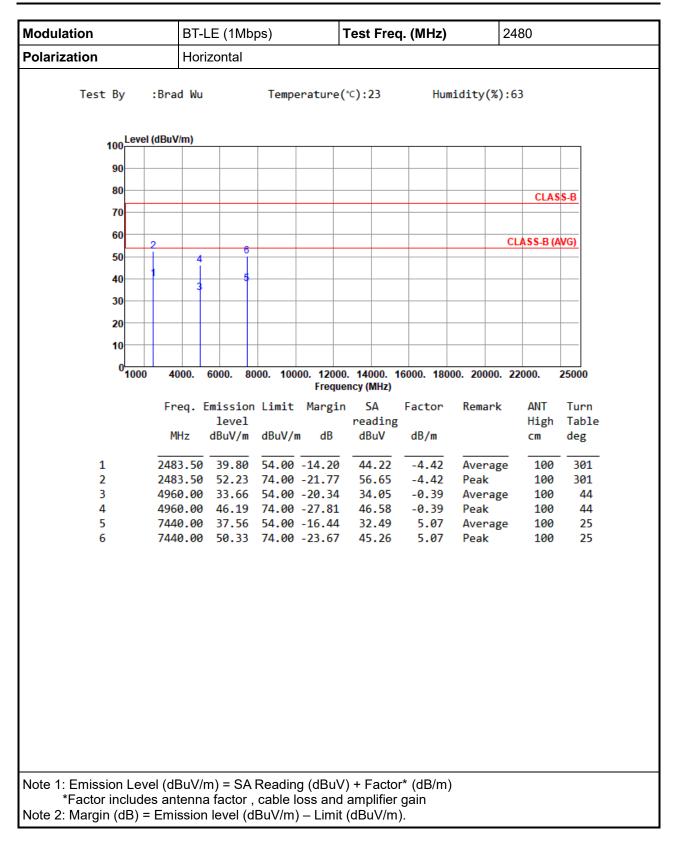
Appendix D



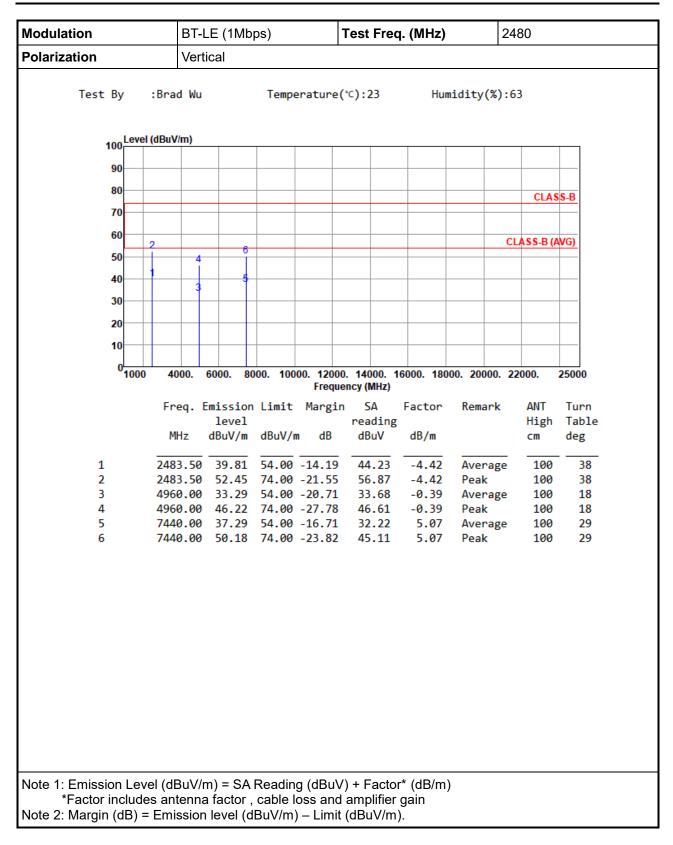








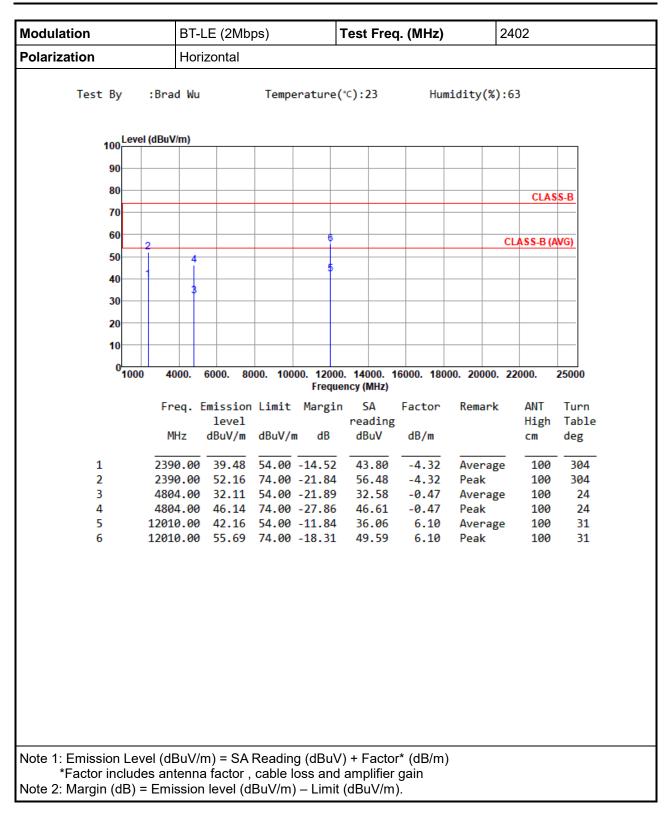




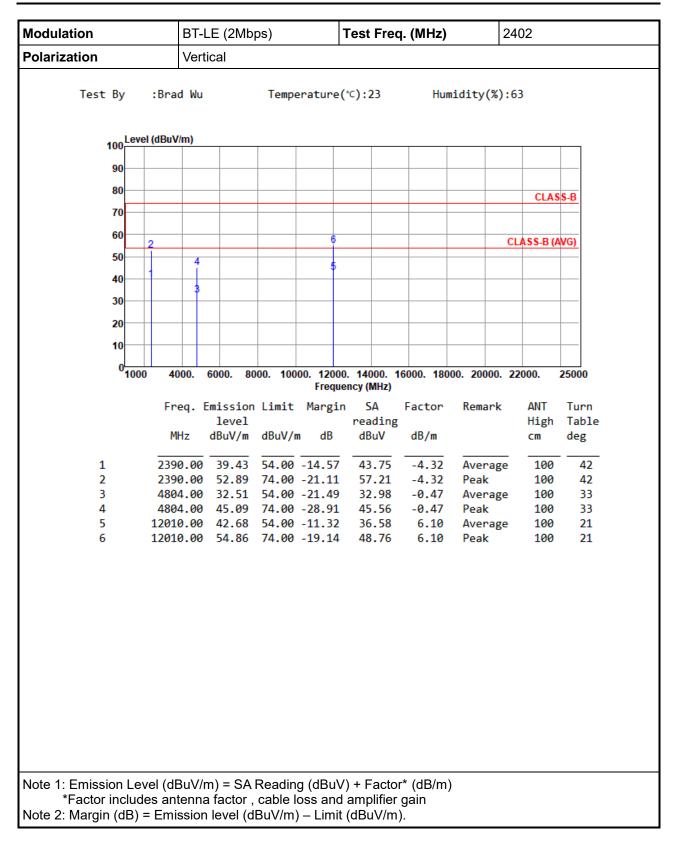


Unwanted Emissions into Restricted Frequency Bands

Appendix D









Appendix D

