

Testing Laborator



FCC Radio Test Report

FCC ID: 2AOO6-WLT3266H

Report No. : BTL-FCCP-2-2310H026

Equipment : bluetooth module

Model Name : WLT3266H, WLT3266H-J

Brand Name : WLT

Applicant: Wi-linktech Communication Technologies(Shanghai) Co.,Ltd.

Address : Room 602, Building 3, Lane 88, Shengrong Road, Pudong New Area,

Shanghai

Radio Function : Bluetooth Low Energy

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart C (15.247)

Measurement : ANSI C63.10-2013

Procedure(s)

Date of Receipt : 2023/10/23

Date of Test : 2023/11/14 ~ 2023/11/15

Issued Date : 2023/11/27

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2310H026	R00	Original Report.	2023/11/27	Valid

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions		N/A	Note (3)
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX A APPENDIX B APPENDIX C	Pass	
15.247(a)(2)	Bandwidth	APPENDIX D	Pass	
15.247(b)(3)	Output Power	APPENDIX E	Pass	
15.247(e)	Power Spectral Density	APPENDIX F	Pass	
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	Pass	
15.203	Antenna Requirement		Pass	

NOTE:

- "N/A" denotes test is not applicable in this Test Report.
 The report format version is TP.1.1.1.
 This is a DC input device.

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1.1 TEST FACILITY

The te	est locations stated est location(s) use 3-1, Ln. 169, Sec. DN: TW0659)	d to	collect the test da	ta in	this report are:				
(, ∪∪	C05	П	CB08	П	CB11	\boxtimes	SR10		SR11
_	2, Ln. 169, Sec. 2,	Dot	0200	-+ N	-	_	•	Ш	SIXTI
	z, Lii. 109, 3ec. 2, DN: TW0659)	Dall	ong Ru., Alzili Dis	ol., IV	iew raipei City 22	і, іа	iwaii		
	C06	\boxtimes	CB21		CB22				

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 $\mathbf{U}_{\text{cispr}}$ requirement.

A. Radiated emissions test:

Test Site	Measurement Frequency Range	U (dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CBZ1	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

B. Conducted test:

itost.				
Test Item	U (dB)			
Occupied Bandwidth	0.5334			
Output power	0.3669			
Power Spectral Density	0.6591			
Conducted Spurious emissions	0.5416			
Conducted Band edges	0.5348			

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
Radiated emissions below 1 GHz	Refer to data	DC 3.7V	Kevin Zhen
Radiated emissions above 1 GHz	Refer to data	DC 3.7V	Kevin Zhen
Bandwidth	24.4 °C, 43 %	DC 3.7V	Jerry Chuang
Output Power	24.4 °C, 43 %	DC 3.7V	Jerry Chuang
Power Spectral Density	24.4 °C, 43 %	DC 3.7V	Jerry Chuang
Antenna conducted Spurious Emission	24.4 °C, 43 %	DC 3.7V	Jerry Chuang

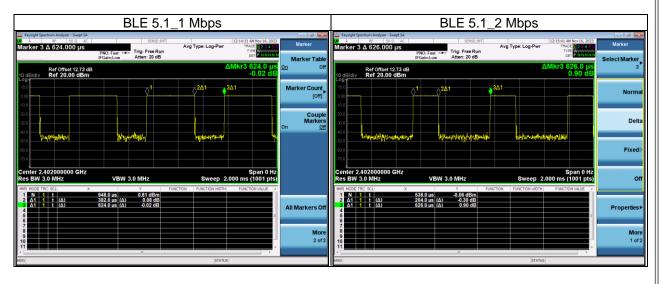
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1.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
Iviode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
BLE (1 Mbps)	0.382	1	0.382	0.624	61.22%	2.13
BLE (2 Mbps)	0.204	1	0.204	0.626	32.59%	4.87



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment bluetooth module Model Name WLT3266H, WLT3266H-J Brand Name WLT Model Difference Chip silk print is different only. Power Source DC voltage supplied from host system. Power Rating 3.7V Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample EUT Modification(s) N/A		
Brand Name Model Difference Chip silk print is different only. Power Source DC voltage supplied from host system. Power Rating 3.7V Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model Sample Status Engineering Sample	Equipment	bluetooth module
Model Difference Chip silk print is different only. Power Source DC voltage supplied from host system. Power Rating 3.7V Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Model Name	WLT3266H, WLT3266H-J
Power Source DC voltage supplied from host system. Power Rating 3.7V Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Brand Name	WLT
Power Rating 3.7V Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Model Difference	Chip silk print is different only.
Products Covered N/A Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Power Source	DC voltage supplied from host system.
Operation Band 2400 MHz ~ 2483.5 MHz Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Power Rating	3.7V
Operation Frequency 2402 MHz ~ 2480 MHz Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Products Covered	N/A
Modulation Technology GFSK Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Operation Band	2400 MHz ~ 2483.5 MHz
Transfer Rate 1 Mbps, 2 Mbps Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Operation Frequency	2402 MHz ~ 2480 MHz
Output Power Max. 1 Mbps: 2.65 dBm (0.0018 W) 2 Mbps: 2.68 dBm (0.0019 W) Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Modulation Technology	GFSK
Test Software Version FCC Assist 1.0.2.2 Test Model WLT3266H Sample Status Engineering Sample	Transfer Rate	1 Mbps, 2 Mbps
Test Model WLT3266H Sample Status Engineering Sample	Output Power Max.	
Sample Status Engineering Sample	Test Software Version	FCC Assist 1.0.2.2
	Test Model	WLT3266H
EUT Modification(s) N/A	Sample Status	Engineering Sample
	EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

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(3) Table for Filed Antenna:

	Ant.	Brand	Model Name	Туре	Frequency Range (MHz)	Gain (dBi)
Г	1.	WLT	CBT-RBT11	PCB Antenna	2400-2480	3.25

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	BLE 5.1 / 1 Mbps	39	-
Transmitter Radiated Emissions	BLE 5.1 / 1, 2 Mbps	00/39	Bandedge
(above 1GHz)	BLE 5.1 / 1, 2 Mbps	00/19/39	Harmonic
Transmitter Radiated Emissions (above 18GHz)	BLE 5.1 / 1 Mbps	39	-
Bandwidth	BLE 5.1 / 1, 2 Mbps	00/19/39	-
Output Power	BLE 5.1 / 1, 2 Mbps	00/19/39	-
Power Spectral Density	BLE 5.1 / 1, 2 Mbps	00/19/39	-
Antenna conducted Spurious Emission	BLE 5.1 / 1, 2 Mbps	00/19/39	-

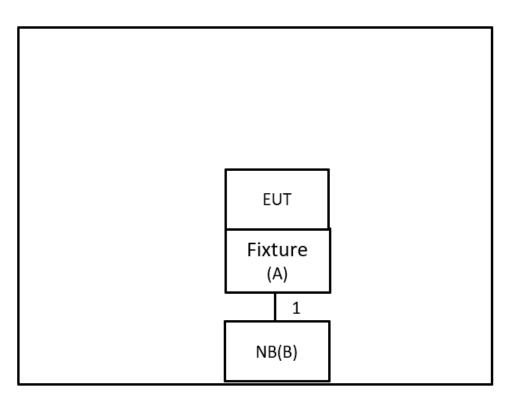
NOTE:

- (1) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (2) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
 (3) The EUT supports both BLE 4.0 and 5.1, we will pick BLE 5.1 for testing.

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2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	FixTure	N/A	N/A	N/A	Furnished by test lab.
В	NB	HP	TPN-I119	N/A	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	No	No	1m	Type-C to USB Cable	Furnished by test lab.

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3 RADIATED EMISSIONS TEST

3.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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
960~1000	500	3

LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated (dBu	Measurement Distance	
(IVIHZ)	Peak	Average	(meters)
Above 1000	74	54	3

NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level (dBµV)		Correct Factor (dB/m)		Measurement Value (dBµV/m)
41.91	+	-8.36	=	33.55

Measurement Value (dBµV/m)		Limit Value (dBµV/m)		Margin Level (dB)
33.55	-	43.50	=	-9.95

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T for Average

Mode	VBW(Hz)
BLE (1M)	2700
BLE (2M)	2700

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Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

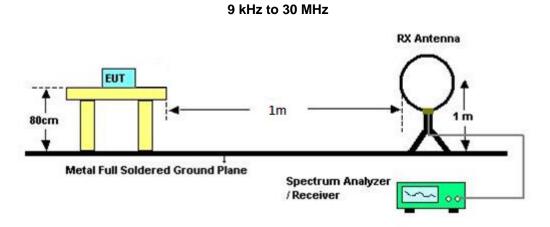
3.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

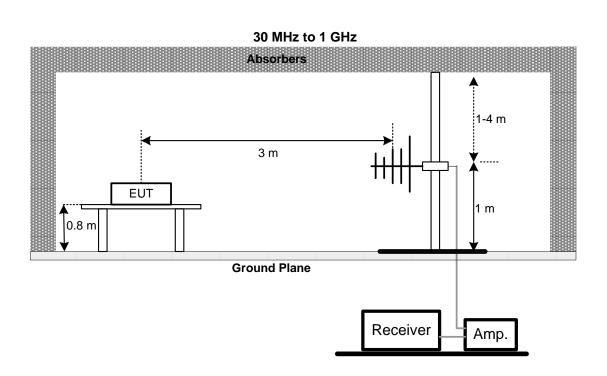
3.3 DEVIATION FROM TEST STANDARD

No deviation.

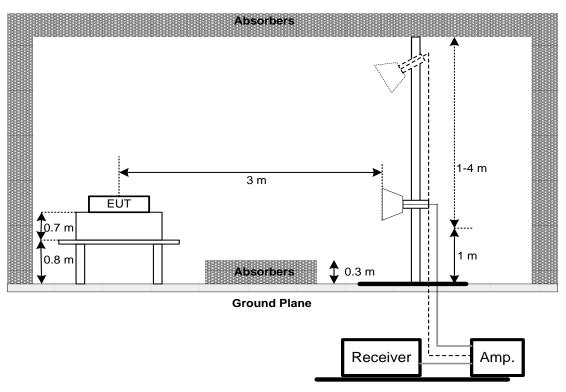
3.4 TEST SETUP







Above 1 GHz





3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT - 9kHz TO 30 MHz

Please refer to the APPENDIX A.

3.7 TEST RESULT - 30 MHZ TO 1 GHZ

Please refer to the APPENDIX B.

3.8 TEST RESULT - ABOVE 1 GHZ

Please refer to the APPENDIX C.

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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4 BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz	2400-2483.5	PASS
		(6dB bandwidth)		

4.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Please refer to the APPENDIX D.

5 OUTPUT POWER TEST

5.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

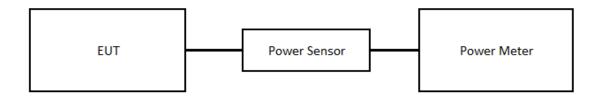
5.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

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6 POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

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7 ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT SPECTRUM ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

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8 LIST OF MEASURING EQUIPMENTS

			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2023/9/6	2024/9/5
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/6
3	Pre-Amplifier	EMCI	EMC184045SE	980907	2023/9/21	2024/9/20
4	Preamplifier	EMCI	EMC001340	980579	2023/9/6	2024/9/5
5	Test Cable	EMCI	EMC104-SM-100 0	180809	2023/7/10	2024/7/9
6	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13
7	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13
8	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
9	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2023/9/12	2024/9/11
10	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2023/5/12	2024/5/11
11	Horn Ant	Schwarzbeck	BBHA 9170D	1136	2023/5/12	2024/5/11
12	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2023/5/9	2024/5/8
13	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2023/5/9	2024/5/8
14	Test Cable	EMCI	EMC101G-KM-K M-3000	220329	2023/3/14	2024/3/13
15	Test Cable	EMCI	EMC102-KM-KM- 1000	220327	2023/3/14	2024/3/13
16	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Bandwidth			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	2023/6/26	2024/6/25

			Output Power	•		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Power Meter	Anritsu	ML2495A	1128008	2023/5/12	2024/5/11
2	Power Sensor	Anritsu	MA2411B	1126001	2023/5/12	2024/5/11

		F	ower Spectral De	ensity		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	2023/6/26	2024/6/25

		Antenna	conducted Spurio	ous Emission		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	2023/6/26	2024/6/25

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

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9 EUT TEST PHOTO
Please refer to document Appendix No.: TP-2310H026-FCCP-1 (APPENDIX-TEST PHOTOS).
10 EUT PHOTOS
Please refer to document Appendix No.: EP-2310H026-1 (APPENDIX-EUT PHOTOS).

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APPENDIX A	RADIATED EMISSIONS - 9 KHZ TO 30 MHZ

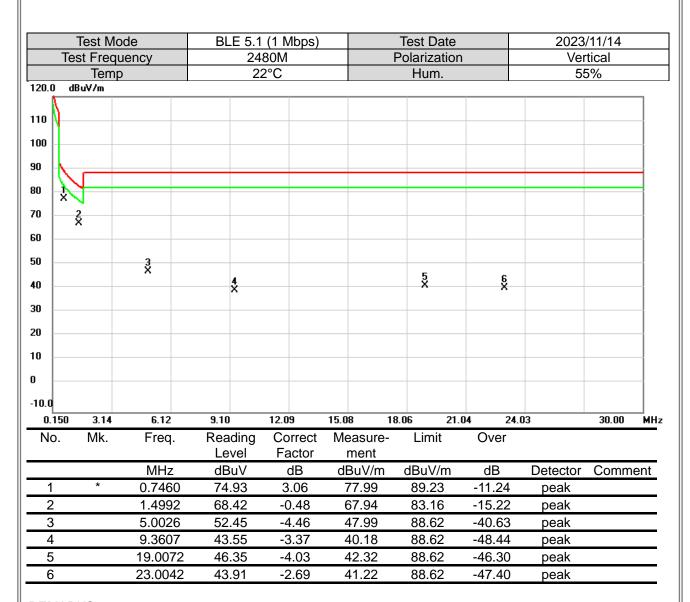
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	Test Mod	de	BLE 5.1	(1 Mbps)		Test Date		2023	/11/14	
Te	st Freque	ency		80M	F	Polarization			tical	
	Temp		2:	2°C		Hum.		5	5%	
50.0 dl	BuV/m									_
_	_									
40										1
30										-
20										\dashv
										┪
10	1 ×									1
00	×									+
o										4
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D										\dashv
o										4
o										
0										\dashv
0.0										
0.009	0.02	0.04	0.05	0.07	0.08 0.	09 0.11	0.12		0.15	_м
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	ent
1	*	0.0156	69.01	33.71	102.72	142.82	-40.10	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.





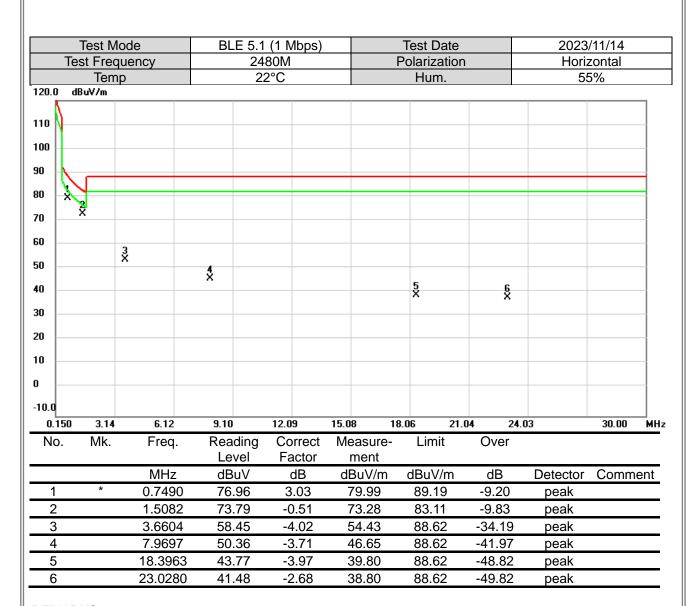
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



	Test Mod	de	BLE 5.1	(1 Mbps)		Test Date		2023	/11/14	
Te	st Frequ	ency		-80M	I	Polarization			zontal	
	Temp		2	2°C		Hum.		5	5%	
50.0 dl	3uV/m									_
40										T
30										+
20										=
10										
		1 X								
00										1
D										\dashv
o										4
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D										+
o										-
o										4
0.0										
0.009	0.02	0.04	0.05	0.07	0.08 0.	09 0.11	0.12		0.15	_м
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over			
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comm	ent
1	*	0.0280	73.51	28.99	102.50	137.74	-35.24	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.





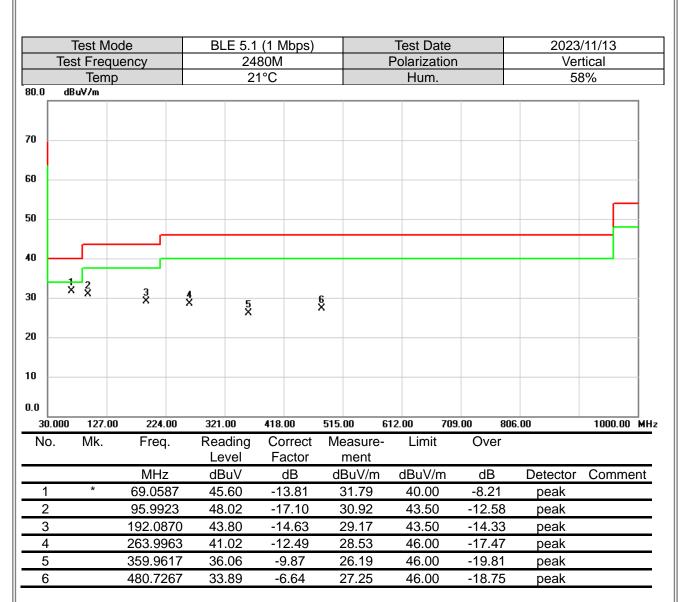
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



	Report No.: BTL-FCCP-2-2310H026
APPENDIX B	RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

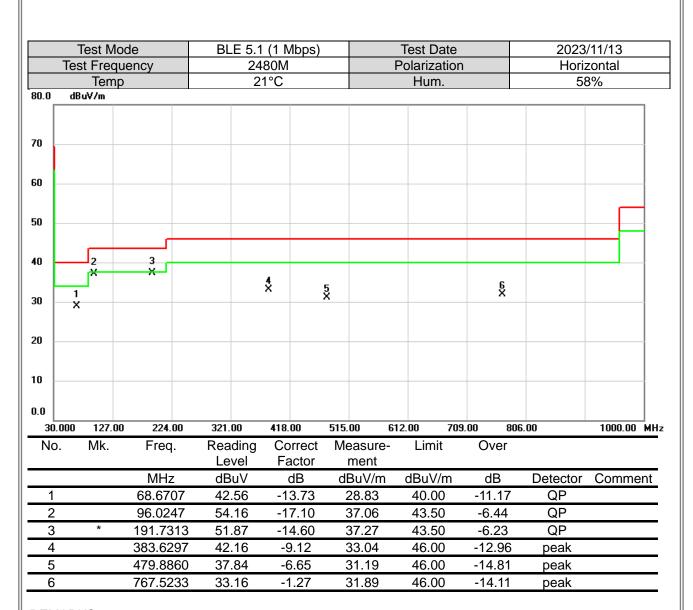
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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





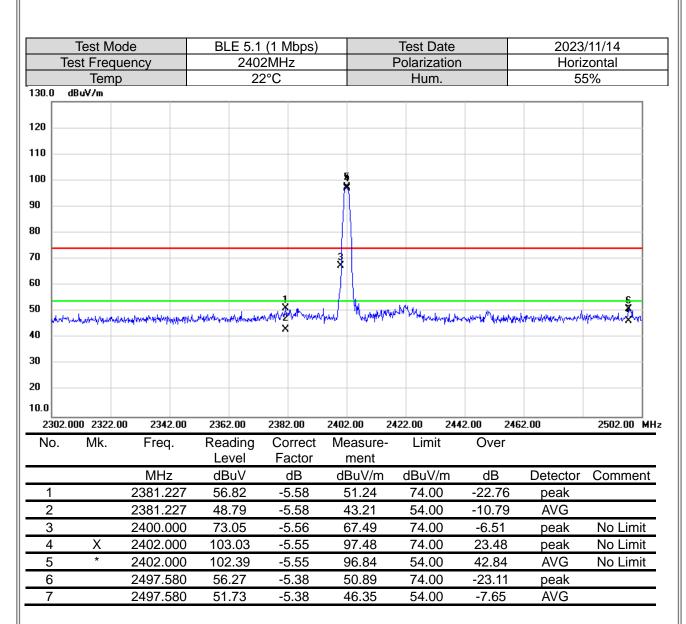
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ

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- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



	Test Mo			BLE		(1 MI					t Date			/11/14	
Tes	st Frequence					0MHz	-				rizatior	1		zontal	
130.0 dB	Temp BuV/m	ρ			22	2°C				Н	um.		55	5%	
130.0 00	,447111														7
120															
110															1
00															4
								Ì							
90															1
30								-							-
70															-
								- /	1						
60								+							+
1						rt.last.	بابد			5					
50	gunderheide	Population and produced	humpelylage	مراد دوراد راد المعادر	numbled	ywyrtdfwfu.	4/h\/h/ _h /~	want.	noght production		4)bajka-pa(1,44,404) _a	to who will be a supple	arra-phylanoxy (120)	Monaration	la La
50	year harmon on the	Photobardynolynol	hungaphin	i ^{ph} u _{l-} de _n phiy	romoted	gans Pt feet le	₩₩	www.	replantair		rybajdiryriyrifrasiy	ter de sout d'has protest	aryo-yolahararyi (1974)	MongoleAry	l.
50 ¥ 40	humpan	Population	humperhan	of the property of	rombled	gang Philippolip	4/b√do _{bo} o	~/ /	angle and spile		robadayari, ranay	ita da sera da	arr-property are the	Adamantakon	1. ₩
30	yuu dan maraya	Population	hwys bloss	of the following of the second	rumdhlid	gang Maganda.	MA/NA.	~*****	ovehender!		tykajda potytoka vija	ter de sont p ^{ort} a sprijeloù	aryo-polisharary (milyan	AghangariaNin	1 ₩
50 40 30 20	gundersone	Popular kanang pangkan	hwys phys	of the book of	rvendhol	grap the first to	4444nh~	~»,4	angle and south		rybadayari,refuesily	the description	aryo-polyheris siya sasas	Aplenergense Non-	—————————————————————————————————————
30 20 10.0										CH-MAK					
50 40 80 20 10.0 2380.00	00 2400.	00 2420	1.00	2440.	.00	2460.	00	2480	1.00	2500.00	0 25	20.00 2	540.00	.₩	
1 40 30 20			1.00	2440. Read	.00	2460.1 Cor	00 rect	2480 Me	1. 00 easure	2500.00					
50 40 80 20 10.0 2380.00	00 2400.	00 2420 Freq). 00	2440. Read Lev	.00 ding vel	2460. Cor Fac	oo rect	2480 Me	o. oo easure ment	2500.00 - L	1 25: imit	20.00 2 Over	540.00	2580.00	MI
1 10 80 20 10.0 2380.00	00 2400.	00 2420 Freq MHz	J. 00	2440. Reac Lev	.oo ding vel vV	2460. Cor Fac	oo rect ctor B	2480 Me I	o.oo easure ment BuV/m	2500.00 - L	0 253 imit uV/m	20.00 2 Over	540.00 Detector		MI
10 80 10.0 2380.00 No.	00 2400.	00 2420 Freq	.00	2440. Read Lev	oo ding vel uV 66	2460. Cor Fac	oo rect ctor B 59	2480 Me I dE	o. oo easure ment	2500.00 - L	1 25: imit	20.00 2 Over	540.00	2580.00	MI
1 0 0 0 0 0 0 2380.00 No.	00 2400.	00 2420 Freq MHz 2384.2		2440. Read Lev dBu	.00 ding /el uV 66	2460.1 Cor Fac d	00 rect ctor B 59	2480 Me I dE	easure ment BuV/m 51.07	2500.00 - L dBi	0 253 imit uV/m 4.00	20.00 2 Over dB -22.93	540.00 Detector peak	2580.00	MI-
10 80 0.0 2380.00 No.	00 2400. Mk.	00 2420 Freq MHz 2384.2 2384.2		2440. Reac Lev dBu 56.6	00 ding vel uV 66 24	2460.1 Cor Fac di -5.	00 rect ctor B 59 59	2480 Me I dE	0.00 easure ment BuV/m 51.07	2500.00 - L dB 72 54	0 252 imit uV/m 4.00 4.00	20.00 2 Over dB -22.93 -9.35	Detector peak AVG	2580.000 Comme	MH- ent
10.0 2380.00 No.	00 2400. Mk.	00 2420 Freq MHz 2384.2 2384.2 2480.0	5.00	2440. Read Lev dBu 56.6 50.2	00 ding /el uV 66 24 .82	2460. Cor Fac d -5. -5.	00 rect ctor B 59 59 41	2480 Me I dE 5	0.00 easure ment BuV/m 51.07 14.65	2500.000 - L dBi 74 54 74 54	0 257 imit uV/m 4.00 4.00	Over dB -22.93 -9.35 22.41	Detector peak AVG peak	2580.00 Comme	MH ent

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



	Test Mod			.1 (3 Mbps)		Test Date			/11/14
Tes	st Freque	ency	24	02MHz		Polarization	n		zontal
30.0 dB	Temp			22°C		Hum.		55	5%
130.0 ab	uv/m								
120									
10									
00					\$				
30					×				
30					X				
70									
50 <u> </u>									6 X
50				2	N / 1 / //				fft. I
10				L BURNING L	W W	Colonia de la co	Mar		
10 Mah/Matrix	aper software appropriately	r strikedysvetový právy n	Lance Alignetic and a single before	muh mumumpi (Viga) ×	W When	Colodolo Colomorphical	married with Warman	an marketon particular	when the
10	aper polymorphy so grade	and the second of the second	anne Adaption and a stable	mad marinda X	W Www	Cirrid Haranian Company has a	inanenini ^{art} Weisindow	an market on particular security	whoman / the
40 30	ar selvane de servicio	na garage and a second	المرادات والمردود وال	anas menghibiyas X	When	Colondo de la compressa de la	and the second s	an marintan pada pada pada pada pada pada pada pa	who was him
80	ar-odiningthissort	re the desire the second	man nakapatan matahaki	erayli simprove (Chilyas)	W Www	Not the distribution of the second section of the section	orangent Medicinal and	ar marketar sa part ta sa marketar	usylvanish Medien
0.0	0 2322.00			2382.00					2502.00 MH
0.0			2362.00 Reading	2382.00 g Correct	2402.00 2 Measure-	2422.00 24			WALLER TO THE STREET OF THE ST
0 0 0 0.0 2302.00	0 2322.00	2342.00	2362.00 Readin Level	2382.00 g Correct Factor	2402.00 2 Measure- ment	2422.00 24 Limit	42.00 246 Over	2.00	2502.00 MI
0 0 0 0.0 2302.00	0 2322.00	2342.00 Freq.	2362.00 Reading Level dBuV	2382.00 g Correct	2402.00 2 Measure-	2422.00 24	42.00 246		warden Albert
0 0 0.0 2302.00 No.	0 2322.00	2342.00 Freq.	2362.00 Reading Level dBuV 47.78	2382.00 g Correct Factor dB	2402.00 2 Measure- ment dBuV/m	2422.00 24 Limit dBuV/m	42.00 246 Over	2.00 Detector	2502.00 MI
0 0 0.0 2302.00 No.	0 2322.00	2342.00 Freq. MHz 2383.133	2362.00 Reading Level dBuV 47.78	2382.00 g Correct Factor dB -5.58	2402.00 2 Measure- ment dBuV/m 42.20	2422.00 24 Limit dBuV/m 54.00	42.00 246 Over dB -11.80	Detector AVG	2502.00 MI
0 0 0.0 2302.00 No.	0 2322.00 Mk.	2342.00 Freq. MHz 2383.133 2385.133	2362.00 Reading Level dBuV 47.78 57.04	2382.00 Correct Factor dB -5.58	2402.00 2 Measure- ment dBuV/m 42.20 51.46	2422.00 24 Limit dBuV/m 54.00 74.00	42.00 246 Over dB -11.80 -22.54	Detector AVG peak	2502.00 MI
00 0.0 2302.00 No.	0 2322.00 Mk.	2342.00 Freq. MHz 2383.133 2385.133 2400.000	2362.00 Reading Level dBuV 47.78 57.04 83.43	2382.00 Correct Factor dB -5.58 -5.58	2402.00 2 Measure- ment dBuV/m 42.20 51.46 77.87	2422.00 24 Limit dBuV/m 54.00 74.00 74.00	42.00 248 Over dB -11.80 -22.54 3.87	Detector AVG peak peak	2502.00 MI
2302.00 No.	0 2322.00 Mk.	2342.00 Freq. MHz 2383.133 2385.133 2400.000 2402.000	2362.00 Reading Level dBuV 47.78 57.04 83.43 103.78 99.17	2382.00 Correct Factor dB -5.58 -5.56 -5.56	2402.00 2 Measure- ment dBuV/m 42.20 51.46 77.87 98.23	2422.00 24 Limit dBuV/m 54.00 74.00 74.00 74.00	42.00 246 Over dB -11.80 -22.54 3.87 24.23	Detector AVG peak peak peak	2502.00 MI Comment No Limit No Limit

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Test Mode				1 (3 Mbps)		Test Date			2023/11/14	
Test Frequency Temp				BOMHz		Polarization			Horizontal	
			22°C		Hum.			55%		
130.0	dBuV/m									
120										
20										
10 -										
00					3					
					Ä					
90										
30										
<u> </u>										
70										
60					5					
					5 X					
50	Proceedings of the process of the first	situapaa,fiallaatti Lafettumagaa,a	and propression	water from the state of the sta	VIII HELINAN	hageline with a week problem	Marked Managemen	han phant shown	aday, www. www. day	
50	man de la companya de	situapini kalketajipi unganja	an Apple a proper and a proper	walker for the second of the s		happene me me parker	eybooked Montapin	desembly beautiful	adapan aran da	
50 X 40 X	transistration of the state of the	at-apolybeledd the difference loss	and follows between	warder had a produce they	VIII HELINAN	hadden with an alphan	ndga Manapan	derander der de de der aver	adalismos sombala	
50 X 40 X	mandring the mandring to	struped hell leader lader by the constant	an Miselpous serveran	worker white of the colors	VIII HELINAN	dagdanarii wali kuwalipahiw	ngsteeder Menseyvin	der ein der der nicht der nicht eine der der nicht eine der der der der der der der der der de	adalphara-shaphada	
60 50 40 × 30 20	transistration of the second section of the section of th	W-npaghalade Tadit Padit	an Arthrepresent	wooder of the later of the late	VIII HELINAN	dagger and the walk of the	molecular Managasia	der ein ter frank Verrange	actor/over-stratification	
50 X 40 X 30 20	anni de de mente de la fer	situaphaylarikasitrilaritei	and physiques	worker of the state of the stat	VIII HELINAN	tople with a supple with	ndert Moneyen	der een versche voor de versche	adalpharan phala	
50 X 40 X 30 20			2440.00	2460.00	X X				46416444444444444444444444444444444444	
50 X 40 X 30 20			2440.00 Reading	2460.00 Correct	X X					
20 2380.	0.000 2400.0	0 2420.00 Freq.	2440.00 Reading Level	2460.00 Correct Factor	2480.00 29 Measure- ment	500.00 252 Limit	20.00 254 Over	10.00	2580.00 MI	
2380. No.	0.000 2400.0	0 2420.00 Freq.	2440.00 Reading Level dBuV	2460.00 Correct Factor dB	2480.00 29 Measure- ment dBuV/m	500.00 252 Limit dBuV/m	20.00 254 Over dB	0.00 Detector		
80 80 0.0 2380. No.	0.000 2400.0	0 2420.00 Freq. MHz 2383.107	2440.00 Reading Level dBuV 55.08	2460.00 Correct Factor dB -5.58	2480.00 25 Measure- ment dBuV/m 49.50	500.00 252 Limit dBuV/m 74.00	20.00 254 Over dB -24.50	Detector peak	2580.00 MI	
80 80 0.0 2380. No.	0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.107 2383.107	2440.00 Reading Level dBuV 55.08 48.67	2460.00 Correct Factor dB -5.58	2480.00 29 Measure- ment dBuV/m 49.50 43.09	500.00 252 Limit dBuV/m 74.00 54.00	20.00 254 Over dB -24.50 -10.91	Detector peak AVG	2580.00 MI	
80 2380. No.	0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.107 2383.107 2480.000	2440.00 Reading Level dBuV 55.08 48.67 104.08	2460.00 Correct Factor dB -5.58 -5.58	2480.00 29 Measurement dBuV/m 49.50 43.09 98.67	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -24.50 -10.91 24.67	Detector peak AVG peak	2580.00 MI Comment	
10.0 2380. No.	0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.107 2383.107 2480.000 2480.000	2440.00 Reading Level dBuV 55.08 48.67 104.08 100.66	2460.00 Correct Factor dB -5.58 -5.58 -5.41 -5.41	2480.00 25 Measure- ment dBuV/m 49.50 43.09 98.67 95.25	500.00 252 Limit dBuV/m 74.00 54.00 74.00 54.00	20.00 254 Over dB -24.50 -10.91 24.67 41.25	Detector peak AVG peak AVG	2580.00 MI	
10.0 2380. No.	0.000 2400.0 Mk.	0 2420.00 Freq. MHz 2383.107 2383.107 2480.000	2440.00 Reading Level dBuV 55.08 48.67 104.08	2460.00 Correct Factor dB -5.58 -5.58	2480.00 29 Measurement dBuV/m 49.50 43.09 98.67	500.00 252 Limit dBuV/m 74.00 54.00 74.00	20.00 254 Over dB -24.50 -10.91 24.67	Detector peak AVG peak	2580.00 MI Comment	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



Test Mode				1 (1 Mbps)	Test Date			2023/11/14	
Test Frequency				02MHz	Polarization			Vertical	
Temp				22°C	Hum.			55%	
130.0	dBuV/m								
120									
110 -									
100									
90									
80									
70									
60									
50		1							
40		1 2 2	<u> </u>						
30									
20									
10.0									
	000 2700.0			7800.00				00.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	44.06	0.50	44.56	74.00	-29.44	peak	
2	*	4804.000	38.23	0.50	38.73	54.00	-15.27	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			1 (1 Mbps)		Test Date			/11/14
To	est Frequ			2MHz		Polarization	1		zontal
100.0	Temp)	2	2°C		Hum.		5	5%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50		3	,						
40		×	!						
30									
20									
10.0									
	000 2700.0			7800.00				00.00	18000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	46.81	0.50	47.31	74.00	-26.69	peak	
2	*	4804.000	44.03	0.50	44.53	54.00	-9.47	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo				.1 (1 Mbps)		Test D				/11/14
	Test Freq				40MHz			Polariza				tical
	Temp)			22°C			Hun	າ.		5	5%
130.0	dBuV/m											
120												
10												
100												
30												
30												
'o												
io <u> </u>												
50			1 X 2 X									
ю			X									
30												
20												
10.0												
	.000 2700.	00 4400.	00	6100.00	7800.00	9500). 00 1	1200.00			00.00	18000.00 MH
No.	Mk.	Freq.		Readino Level	g Correct Factor		easure- ment	Lim	it	Over		
		MHz		dBuV	dB		3uV/m	dBuV	/m	dB	Detector	Comment
1		4880.00	00	47.68	0.73	4	18.41	74.0	0	-25.59	peak	
2	*	4880.00	00	40.26	0.73		10.99	54.0	0	-13.01	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



		t Mod					Mbps)				Test Da				/11/14
	Test F		ency		24	140M				Р	olariza				zontal
		emp				22°C	;				Hum.			55	5%
130.0	dBuV/i	m													
120 _															
110															
100															
90															
BO _															
'o															
io _															
io <u> </u>				ģ ×											
ю				×											
30 <u> </u>															
20															
10.0															
	0.000 2				6100.00		00.00	9500			200.00	1290		600.00	18000.00 MF
No.	M	K.	Freq	•	Readin Level		Correct Eactor		easure ment)-	Limit		Over		
			MHz		dBuV		dB	dl	3uV/m)	dBuV/ı	m	dB	Detector	Comment
1			4880.0	00	49.20		0.73	4	19.93		74.00)	-24.07	peak	
2	*		4880.0	00	45.71		0.73	4	16.44		54.00)	-7.56	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo				1 (1 Mbps)		Test Dat			/11/14
	Test Frequency				80MHz		Polarizati	ion		rtical
120.0	Temp	ρ			22°C		Hum.		5	5%
130.0	dBuV/m									
120										
10										
100										
90 <u> </u>										
30										
70 <u> </u>										
60 <u> </u>										
50 =			1 Ž							
ю			×							
30										
20										
10.0										
	.000 2700.			6100.00	7800.00	9500.00			600.00	18000.00 MH
No.	Mk.	Freq		Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	<u>'</u>	dBuV	dB	dBuV/m	dBuV/n	n dB	Detector	Comment
1		4960.0	00	48.26	0.99	49.25	74.00	-24.75	peak	
2	*	4960.0	000	43.20	0.99	44.19	54.00	-9.81	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test I						(1 Mbps)				Test Da				/11/14
1	Test Fre		ency		2)MHz			Р	olarizat				zontal
		mp				22	2°C				Hum.			5	5%
30.0	dBuV/m														
120															
10															
100															
90															
30															
o															
io															
50 _				1 X X											
10 <u> </u>															
80															
20															
10.0															
	.000 270				6100.00		7800.00	9500			200.00	1290		600.00	18000.00 MH
No.	Mk.	•	Freq	•	Readir Leve		Correct Factor		easure ment	-	Limit		Over		
			MHz		dBu∖		dB		3uV/m		dBuV/r	m	dB	Detector	Comment
1			4959.8	67	50.29	9	0.99	į	51.28		74.00)	-22.72	peak	
2	*		4959.8	67	46.03	3	0.99	-	17.02		54.00)	-6.98	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



		t Mod			BL	E 5.1						Test D					/11/14	
	Test F		ency				2MH	Z			F	Polariza					tical	
		emp				22	2°C					Hum	۱.			5	5%	
30.0	dBuV/i	m																_
20																		
10																		_
00																		_
10																		_
30 <u> </u>																		
o																		-
0 _																		4
0				1														\dashv
o				1 2 X														4
0																		4
o																		
0.0																		
	0.000 2				6100		7800		9500			200.00			14600	.00	18000.	DO MH
No.	M	K.	Freq	•	Read Lev			rrect ctor		easur ment		Limi	t 	Ove	r 			
			MHz		dB	uV	C	ΙB	dl	3uV/r	n	dBuV	/m	dB		Detector	Comm	ent
1			4804.0	00	44.	03	0	.50		14.53		74.0	0	-29.4	7	peak		
2	*		4804.0	00	37.	23	0.	.50	(37.73		54.0	0	-16.2	7	AVG	•	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			(3 Mbps)		Test Date			/11/14
To	est Frequ			2MHz		Polarization			zontal
100.0	Temp)	2:	2°C		Hum.		55	5%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50		1 X							
40		×							
30									
20									
10.0									
1000.	000 2700.0	00 4400.00	6100.00	7800.00	9500.00 1	1200.00 129	00.00 146	00.00	18000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4804.000	47.60	0.50	48.10	74.00	-25.90	peak	
2	*	4804.000	44.23	0.50	44.73	54.00	-9.27	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			(3 Mbps)		Test Date			/11/14
Т	est Frequ			0MHz		Polarization	n		tical
100.0	Temp)	2	2°C		Hum.		55	5%
130.0	dBuV/m								
120									
110 —									
100									
90									
во 🗀									
70									
SO									
50		1							
ю		1 8 X							
30									
20									
10.0									
1000.	.000 2700.0		6100.00	7800.00				500.00	18000.00 MH
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.000	44.60	0.73	45.33	74.00	-28.67	peak	
2	*	4880.000	40.10	0.73	40.83	54.00	-13.17	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo				1 (3 Mbps)		Test Date			/11/14
To	est Freq				10MHz		Polarization	า		zontal
200.0	Tem	р		2	22°C		Hum.		55	5%
30.0	dBuV/m									
120										
10										
100										
90										
80										
'o										
io —										
50			1 X X							
10			×							
:0										
20										
10.0										
	000 2700.		0.00	6100.00	7800.00				500.00	18000.00 MH
No.	Mk.	Fred	٦٠	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MH:	Z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4880.0	000	47.54	0.73	48.27	74.00	-25.73	peak	
2	*	4880.0	000	44.10	0.73	44.83	54.00	-9.17	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Me			5.1 (3 Mbps	s)	Test Date			/11/14
	Test Freq			2440MHz		Polarizatio	on		tical
120.0	Tem	р		22°C		Hum.		55	5%
130.0	dBuV/m								
120									
110									
100									
30 <u> </u>									
30									
'o									
io									
io <u> </u>			1						
10 <u> </u>			½ ×						
30									
20									
10.0									
1000	.000 2700.	00 4400.0	0 6100.0		9500.00		2900.00 146	500.00	18000.00 MH
No.	Mk.	Freq.	Readi Leve			e- Limit	Over		
		MHz	dBu\		dBuV/r	n dBuV/m	dB	Detector	Comment
1		4960.000			45.12		-28.88	peak	
2	*	4960.000			39.41	54.00	-14.59	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mo			1 (3 Mbps)		Test Date			/11/14
Te	est Frequ			40MHz		Polarization)		zontal
	Temp			22°C		Hum.		55	5%
130.0	dBuV/m								
120									
110									
100									
90									
80									
70									
60									
50			ž						
40			×						
30									
20									
10.0									
1000.	000 2700.0	0 4400.00	6100.00	7800.00			300.00 146	00.00	18000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	50.08	0.99	51.07	74.00	-22.93	peak	
2	*	4960.000	44.25	0.99	45.24	54.00	-8.76	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mod			BL			(lbps				est Da					/11/14	
	Test Frequ	ency				80M				P	<u>olariza</u>					tical	
100.0	Temp				2	2°C					Hum				55	5%	
130.0	dBuV/m																_
120																	4
110																	-
00																	4
30 <u> </u>																	4
BO																	_
70 <u> </u>																	\dashv
io																	4
io <u> </u>	1 X																+
0	2 X																1
io -	^																1
20 -																	
0																	1
0.0																	
	0.000 20200.0			2460			00.00		00.00		00.00	3340		35600.00		40000.	DO MH
No.	Mk.	Freq		Rea Le			rrect		easure ment	-	Limit		Over				
		MHz		dB	uV		dB		3uV/m		dBuV/	m	dB	Dete	ector	Comm	ent
1		19840.	00	53.	54	-8	3.28		15.26		74.00)	-28.7	4 pe	ak		
2	*	19840.	00	42.	35	-8	3.28	(34.07		54.00)	-19.93	3 A\	/G		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Test Mod			(1 Mbps)		Test Date			/11/10
	Test Freque	ency		80M		Polarization	1		zontal
130.0	Temp dBuV/m		22	2°C		Hum.		55	5%
130.0	UDUY/III								
120									
110									
100									
90									
80									
70									
60									
50	1								
40	*								
30	2 X								
20									
10									
0.0									
	0.000 20200.0	0 22400.00	24600.00	26800.00	29000.00	31200.00 334	400.00 356	500.00	40000.00 MHz
No.	Mk.	Freq.	Reading	Correct	Measure-		Over		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m		dB	Detector	Comment
1		19840.00	54.22	-8.28	45.94	74.00	-28.06	peak	
2	*	19840.00	42.85	-8.28	34.57	54.00	-19.43	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.

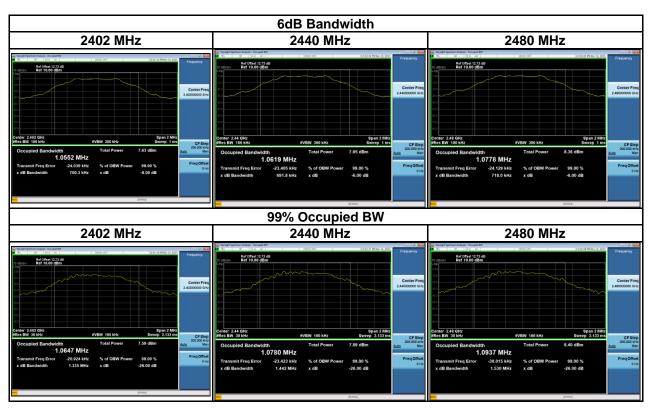
Report No.: BTL-FCCP-2-2310H026 APPENDIX D BANDWIDTH

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Test Mode: BLE 5.1_1 Mbps

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.70	1.06	500	Pass
2440	0.69	1.08	500	Pass
2480	0.72	1.09	500	Pass





Test Mode: BLE 5.1_2 Mbps

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	1.16	2.05	500	Pass
2440	1.16	2.06	500	Pass
2480	1.16	2.07	500	Pass





		Report No.	<u> </u>
	ADDENDIVE	OUTDUT DOWED	
	APPENDIX E	OUTPUT POWER	
Drainat No. 2210H026			

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Report No.: BTL-FCCP-2-2310H026

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	2.16	0.0016	30.00	1.0000	Pass
2440	2.43	0.0017	30.00	1.0000	Pass
2480	2.65	0.0018	30.00	1.0000	Pass

T4 N/1-	DI E	5.4. O.Mb.::	Tantad Data	0000/44/45
Test Mode	e: BLE	5.1_2 Mbps	Tested Date	2023/11/15

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	2.20	0.0017	30.00	1.0000	Pass
2440	2.45	0.0018	30.00	1.0000	Pass
2480	2.68	0.0019	30.00	1.0000	Pass

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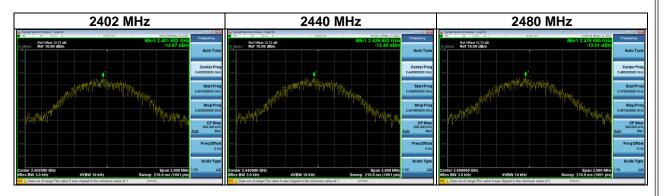
APPENDIX F POWER SPECTRAL DENSITY TEST

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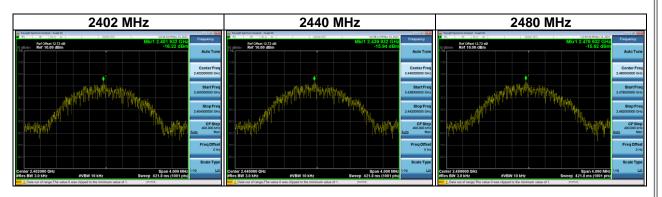
Test Mode : BLE 5.1_1 Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-13.87	8	Pass
2440	-13.40	8	Pass
2480	-13.01	8	Pass



Test Mode : BLE 5.1_2 Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-16.22	8	Pass
2440	-15.94	8	Pass
2480	-15.62	8	Pass



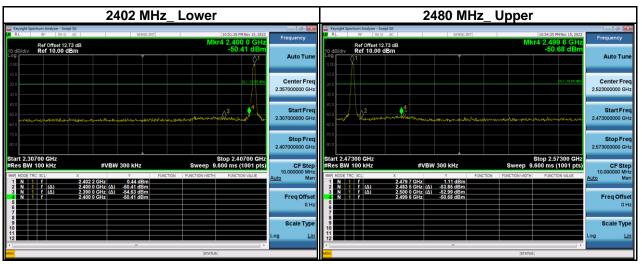


APPENDIX G	ANTENNA CONDUCTED SPURIOUS EMISSION

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Test Mode: BLE 5.1_1 Mbps

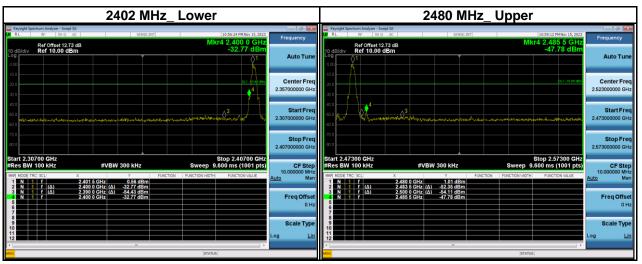


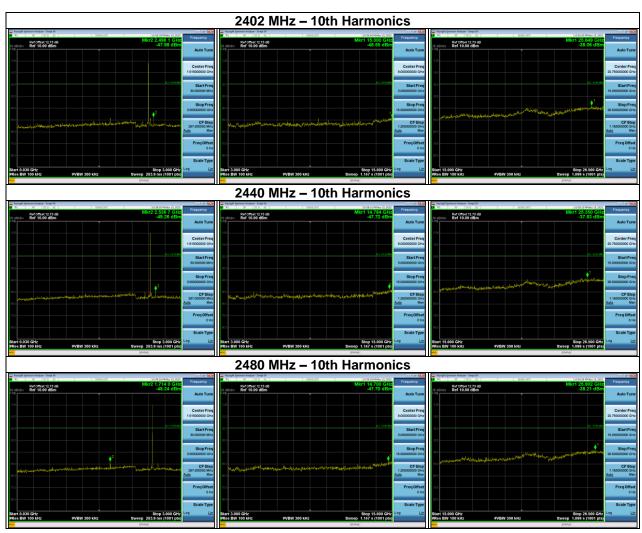






Test Mode: BLE 5.1_2 Mbps





End of Test Report