

Report No.: SEWA2210000062RG02

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TEST REPORT

Application No.: SEWA2210000062RG

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Might and District Changhai China 200000

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road,

Minhang District, Shanghai, China 200233

EUT Description: Wi-Fi&Bluetooth Module

Model No.: FC900E

Trade Mark: Quectel

FCC ID: XMR202210FC900E

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/11/06

Date of Test: 2022/11/21 to 2022/12/14

Date of Issue: 2022/12/15

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2022/12/15		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

Remark:

According to the customer's difference statement, the RF chip is different. The RF chip is changed from QCA1023-0 to QCA9377-3. This difference will not affect the RF performance of the prototype

Model	QCA1023-0 version	QCA9377-3 version
FC900E	R1.0	R2.0

Only QCA1023-0 version was fully tested, RSE and power were tested on worst mode for QCA9377-3 version, and only the worst data is presented in the report.



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3 General Information

3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description: Wi-Fi&Bluetooth Module Model No.: FC900E Trade Mark: Quectel Hardware Version: QCA1023-0: R1.0 QCA9377-3: R2.0			
Trade Mark: Quectel Hardware Version: QCA1023-0: R1.0			
Hardware Version: QCA1023-0: R1.0			
Hardware Version:			
QCA3311-3. 1(2.0			
Software Version: FC900E			
RF Conducted 86879406999	2484		
RSE & AC power line 86433705614	9348		
Operation Frequency: 2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from	fc = 2402 MHz + N * 2 MHz, where:		
Bluetooth version: Bluetooth V4.0	Bluetooth V4.0		
Modulation Type: GFSK	GFSK		
Number of Channel: 40	40		
Potes Type*:			
Rates Type*: 1M PHY			
Antenna Type: External Antenna	External Antenna		
0.73dBi			
Antenna Gain: Note: The antenna gain are derived from the gamanufacturer.	The antenna gain are derived from the gain information report provided by the		
RF Cable: 1.0dB			

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22~23	3.30		
Demonds:				

Remark:

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

Description	Manufacturer	Model No.		
Mother board	Quectel	N/A		
Remark: all above the information of table are provided by client.				



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Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

The antenna is External Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.73dBi. *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability reliability or/and integrity of the information.





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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz		
Limit:	Fragues of reads/MHz)	Limit (d	BuV)	
	Frequency range(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the log	arithm of the frequency.		
Test Procedure:	The mains terminal di room.	sturbance voltage test was co	onducted in a shielded	



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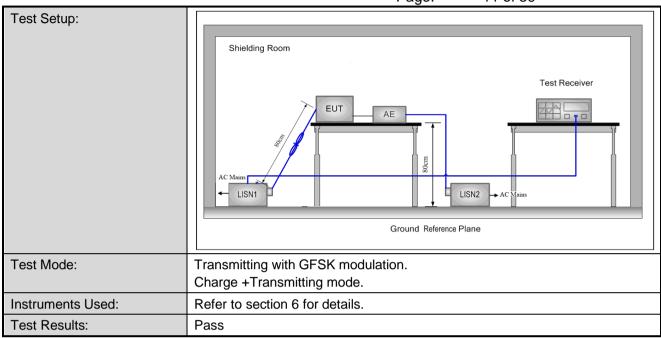
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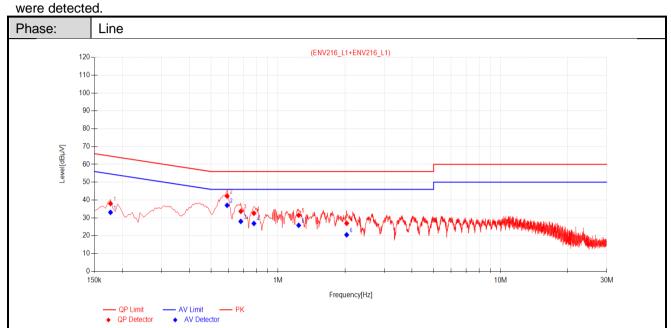
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission



Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.75	27.27	38.02	64.63	26.61	22.35	33.10	54.63	21.53	PASS
2	0.5910	10.51	31.69	42.20	56.00	13.80	26.53	37.04	46.00	8.96	PASS
3	0.6810	10.57	23.10	33.67	56.00	22.33	17.44	28.01	46.00	17.99	PASS
4	0.7800	10.52	22.05	32.57	56.00	23.43	16.35	26.87	46.00	19.13	PASS
5	1.2390	10.78	20.70	31.48	56.00	24.52	15.05	25.83	46.00	20.17	PASS
6	2.0355	10.68	16.28	26.96	56.00	29.04	9.81	20.49	46.00	25.51	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]



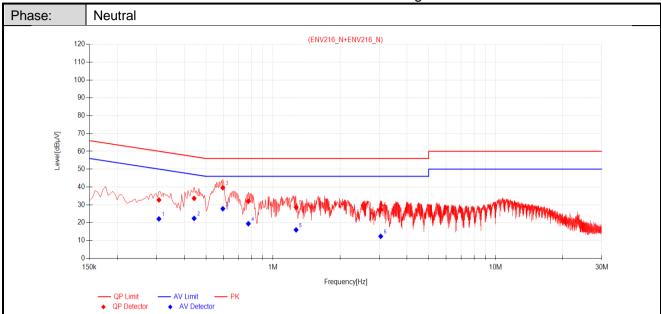
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Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3075	10.77	21.97	32.74	60.04	27.30	11.35	22.12	50.04	27.92	PASS
2	0.4425	10.83	22.78	33.61	57.01	23.40	11.57	22.40	47.01	24.61	PASS
3	0.5955	10.69	28.87	39.56	56.00	16.44	17.11	27.80	46.00	18.20	PASS
4	0.7755	10.80	21.21	32.01	56.00	23.99	8.62	19.42	46.00	26.58	PASS
5	1.2705	10.78	17.91	28.69	56.00	27.31	5.18	15.96	46.00	30.04	PASS
6	3.0480	10.59	16.77	27.36	56.00	28.64	1.75	12.34	46.00	33.66	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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4.3 Duty Cycle

The detailed test data see: Appendix



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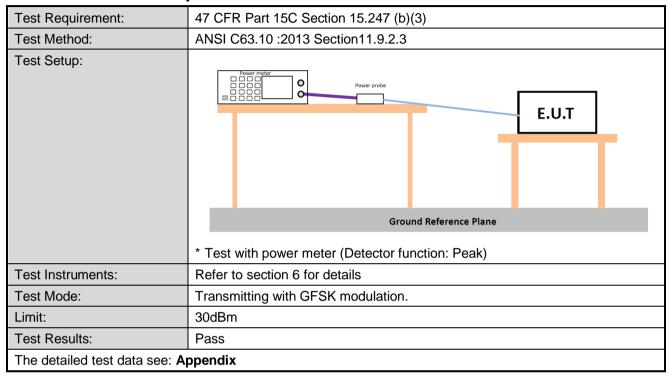
15000 t (86–512) 62992980 15000 t (86–512) 62992980



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4.4 Conducted Output Power





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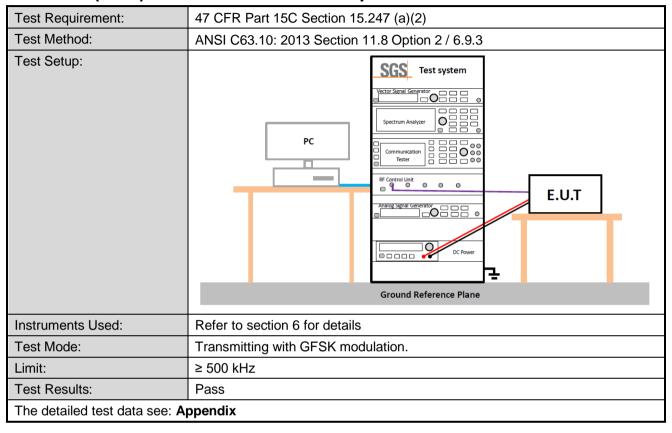
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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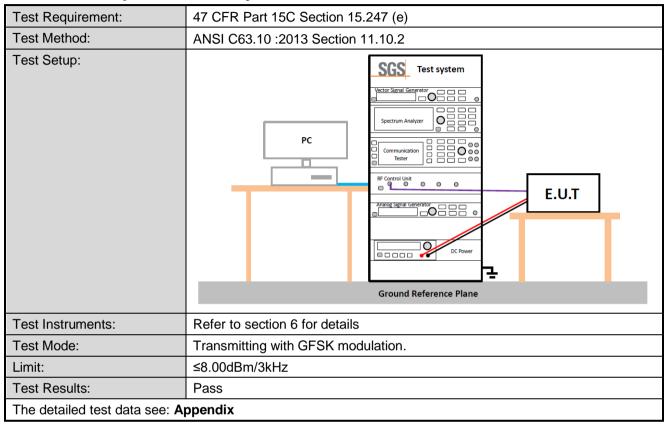
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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.11			
Test Setup:	PC Spectrum Analyzer O O O O O O O O O			
Instruments Used:	Refer to section 6 for details			
Test Mode:	Transmitting with GFSK modulation.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test Results:	Pass			
The detailed test data see: A	ppendix			



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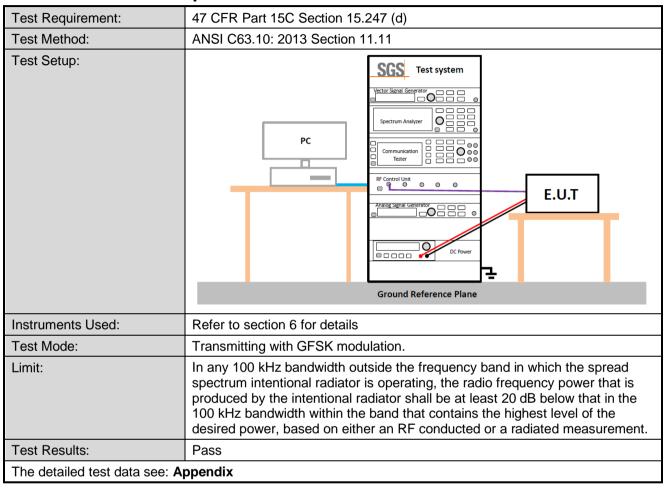
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4.8 RF Conducted Spurious Emissions





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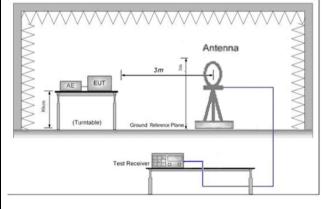
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4.9 Radiated Spurious Emissions

	<u>. </u>						
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Field strength Limit (microvolt/meter) (dBuV/m) Rer		Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	0.490MHz-1.705MHz 24000/F(kHz) -		-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz	500	54.0	Average	3		
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						

Test Setup:



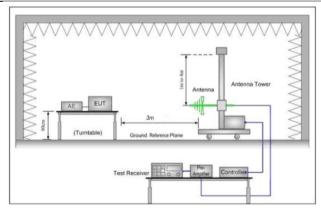


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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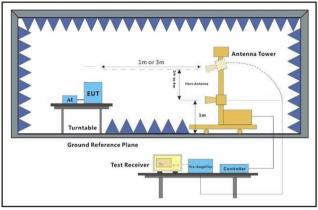


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.
- The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold



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	Fage. 22 01 39
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	Perform a trace average of at least 100 traces.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode,
	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	see: Appendix



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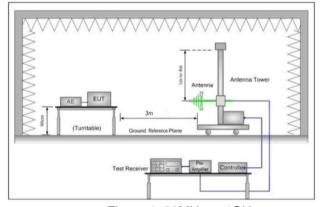
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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section 11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)			
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak			
	88MHz-216MHz	43.5	Quasi-peak			
	216MHz-960MHz	46.0	Quasi-peak			
	960MHz-1GHz	54.0	Quasi-peak			
	Above 4CU-	54.0	Average Value			
	Above 1GHz	74.0	Peak Value			

Test Setup:



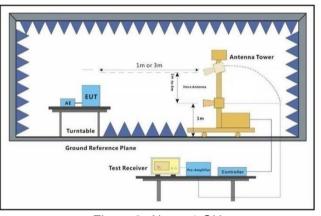


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit



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	<u> </u>
	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel , the Highest channel
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
J	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	• Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	Sweep time = auto
	Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with GFSK modulation.
	Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	e: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	±0.54dB	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±1.0 %	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±1.0 %	
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)	
		± 3.13dB (9k -30MHz)	
0	Dodieted Essissies	± 4.80dB (30M -1GHz)	
8	Radiated Emission	± 4.80dB (1GHz to 18GHz)	
		± 4.80dB (Above 18GHz)	

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

	RF Test Equipment							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27			
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03			
Power meter	Allitsu	WILZ495A	30001-01-31-01	2022/11/23	2023/11/22			
Pulse power	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03			
sensor	Annisu	IVIAZ411D	30001-01-32-01	2022/11/23	2023/11/22			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14			

CE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18			
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR			



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		RSE Test Sy	/stem		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-15	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Cianal Analyzar	KEYSIGHT	NOOZOA	SUWI-01-02-06	2021/12/04	2022/12/03
Signal Analyzer	KETSIGHT	N9020A	30771-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2021/12/04	2022/12/03
Amplinei	ronscend	TAP9N3G32	30771-01-14-00	2022/11/23	2023/11/22
A mam lifting	Tanasand	TA D04040050	CLIMI 04 44 04	2021/12/04	2022/12/03
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
A mam lifting	Tanasand	TA D20M7C20	CLIM/I 04 44 05	2021/12/04	2022/12/03
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.68	2401.66	2402.34	≥0.5	PASS
		2440	0.68	2439.66	2440.34	≥0.5	PASS
		2480	0.68	2479.66	2480.34	≥0.5	PASS



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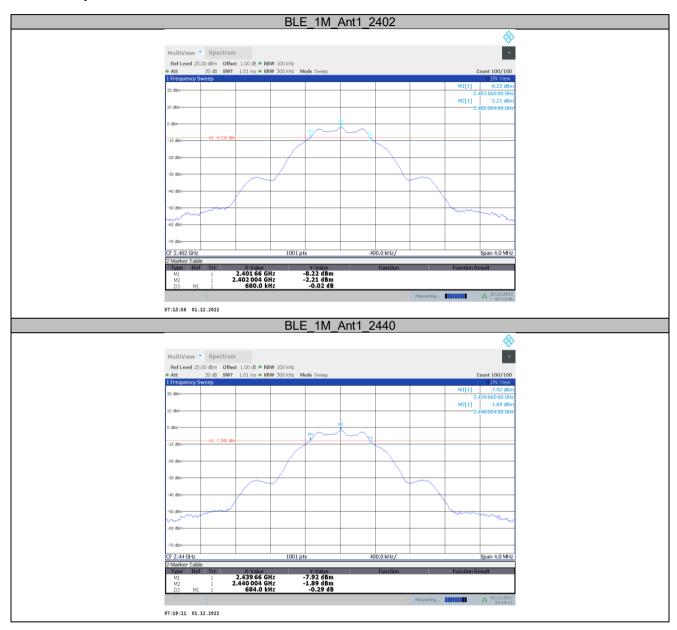


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Test Graphs





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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict	
	Ant1	2402	1.064	2401.476	2402.541	Deporting	
BLE_1M		2440	1.065	2439.476	2440.541	Reporting only	
		2480	1.065	2479.477	2480.541		



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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
	Ant1	2402	-0.89	≤30	PASS
BLE_1M		2440	-0.72	≤30	PASS
		2480	-0.58	≤30	PASS



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Maximum power spectral density Test Result

	TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
Ī			2402	-16.02	≤8.00	PASS
	BLE_1M	Ant1	2440	-15.69	≤8.00	PASS
	_		2480	-15 69	≤8.00	PASS



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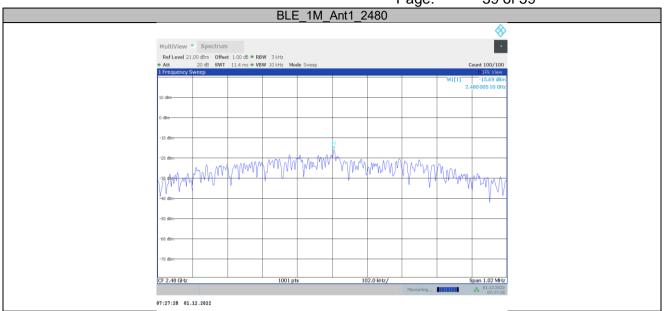
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Band edge measurements Test Graphs





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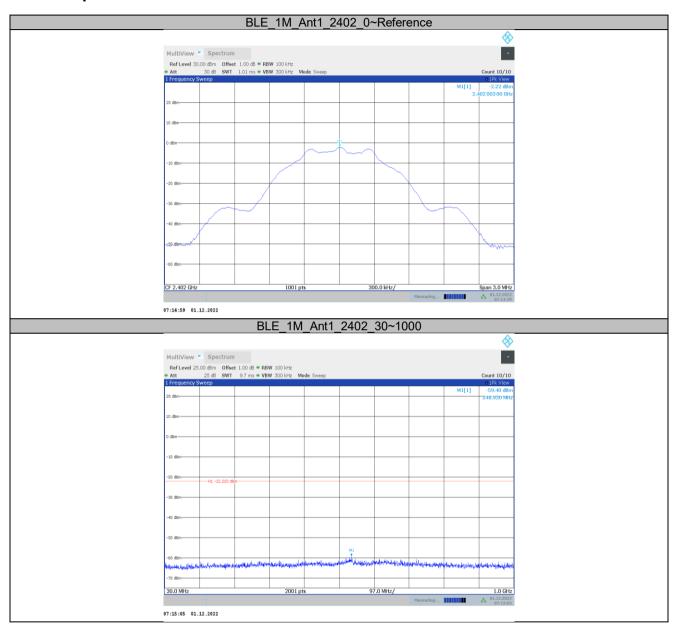


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Conducted Spurious Emission Test Graphs





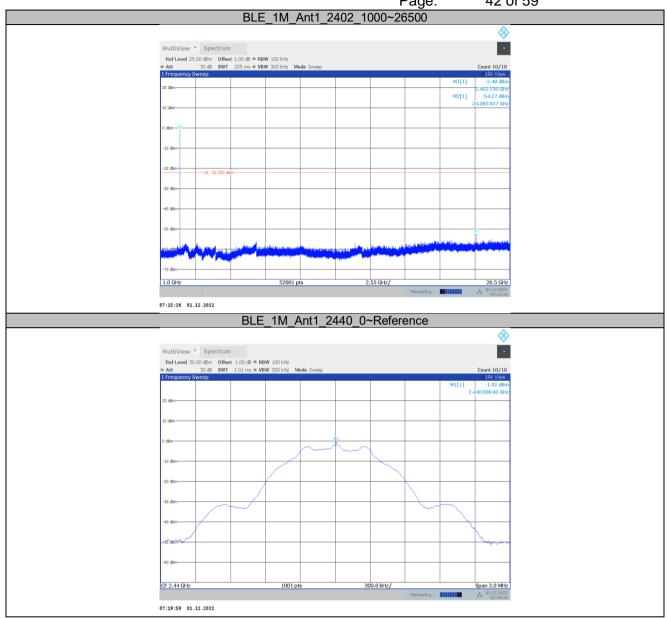
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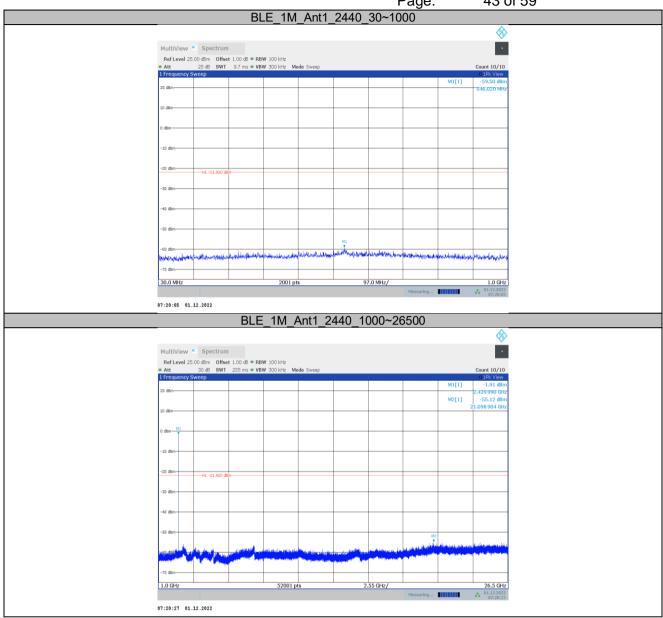
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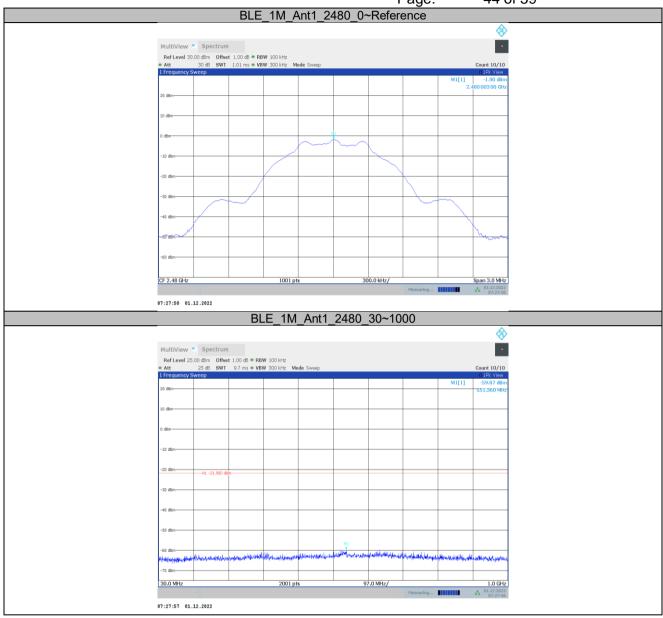
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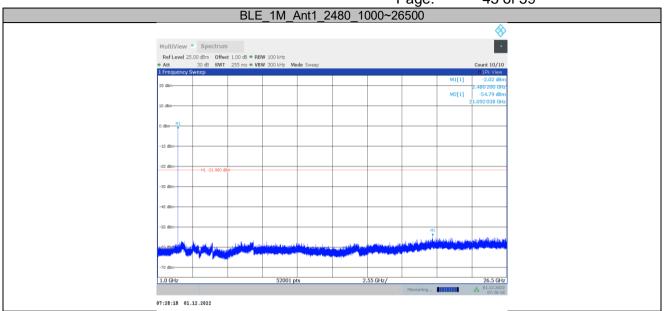
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE 1M	Ant1	2402	0.41	0.63	65.08	1.87



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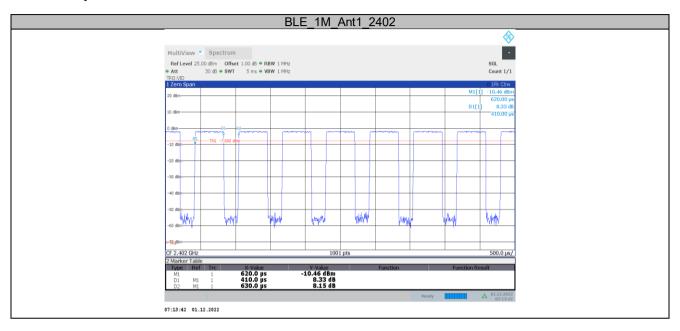


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Test Graphs





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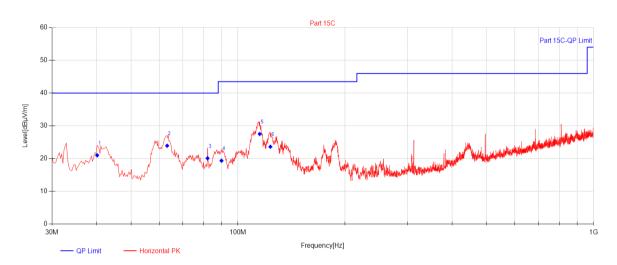


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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 00



Fina	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	40.185	43.21	-36.27	14.05	21.00	40.00	19.00	245	166	Horizontal				
2	63.2225	48.23	-36.44	12.13	23.92	40.00	16.08	165	289	Horizontal				
3	82.1375	46.56	-35.80	9.32	20.08	40.00	19.92	29	53	Horizontal				
4	89.8975	46.33	-36.42	9.44	19.35	43.50	24.15	148	124	Horizontal				
5	115.1175	51.97	-36.15	11.70	27.52	43.50	15.98	175	124	Horizontal				
6	123.3625	47.16	-35.98	12.42	23.61	43.50	19.89	132	82	Horizontal				



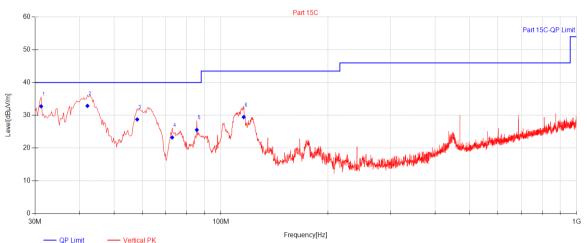
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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	31.2125	56.12	-36.65	13.26	32.73	40.00	7.27	245	286	Vertical				
2	42.125	55.22	-36.24	13.89	32.87	40.00	7.13	136	202	Vertical				
3	58.13	52.19	-36.35	12.90	28.74	40.00	11.26	259	307	Vertical				
4	72.9225	49.11	-36.26	10.37	23.22	40.00	16.78	187	78	Vertical				
5	85.5325	52.23	-36.07	9.37	25.53	40.00	14.47	194	99	Vertical				
6	115.845	53.81	-36.15	11.78	29.44	43.50	14.06	166	329	Vertical				

Remark:

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

Value = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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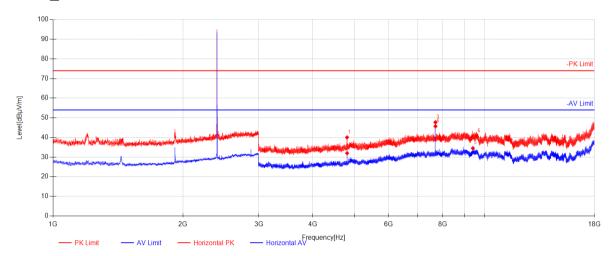


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Transmitter emission Above 1GHz

BLE 1M_Channel 00



	ata List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4803.5	53.23	32.33	-45.54	40.02	74.00	33.98	245	170	Horizontal
2	4804.5	45.20	32.33	-45.54	31.99	54.00	22.01	152	170	Horizontal
3	7700	54.25	36.59	-43.12	47.71	74.00	26.29	136	256	Horizontal
4	7700.5	52.22	36.59	-43.12	45.69	54.00	8.31	256	256	Horizontal
5	9402	35.88	38.49	-39.84	34.53	54.00	19.47	185	56	Horizontal
6	9608.0000	41.80	38.43	-39.65	40.58	74.00	33.42	196	282	Horizontal



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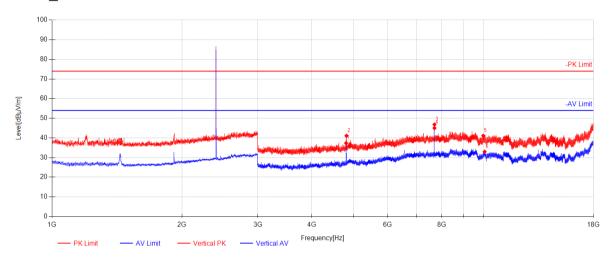
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BLE 1M_Channel 00



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.5	50.58	32.33	-45.54	37.37	54.00	16.63	241	255	Vertical			
2	4815	54.28	32.36	-45.54	41.10	74.00	32.90	255	255	Vertical			
3	7700	53.36	36.59	-43.12	46.82	74.00	27.18	165	112	Vertical			
4	7700.5	51.55	36.59	-43.12	45.02	54.00	8.98	196	86	Vertical			
5	9990	41.87	38.48	-39.25	41.10	74.00	32.90	154	141	Vertical			
6	10065.5	33.53	38.59	-39.16	32.96	54.00	21.04	175	283	Vertical			



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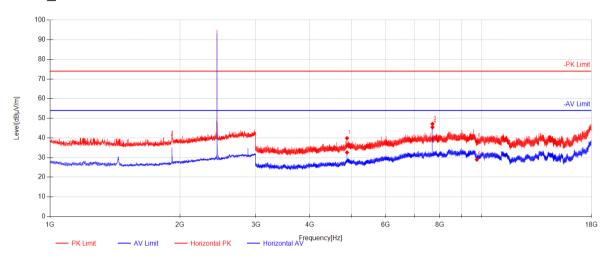
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BLE 1M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4879.5	52.86	32.54	-45.53	39.87	74.00	34.13	111	355	Horizontal			
2	4880.5	45.59	32.55	-45.53	32.60	54.00	21.40	236	171	Horizontal			
3	7699.5	53.70	36.58	-43.12	47.16	74.00	26.84	256	256	Horizontal			
4	7700.5	51.97	36.59	-43.12	45.44	54.00	8.56	214	256	Horizontal			
5	9760.0000	39.32	38.26	-39.46	38.12	74.00	35.88	185	197	Horizontal			
6	9760.0000	30.14	38.26	-39.46	28.94	54.00	25.06	149	225	Horizontal			



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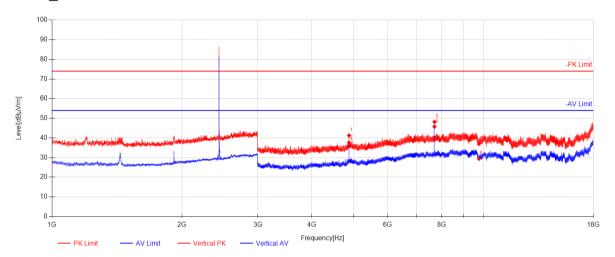
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BLE 1M_Channel 19



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4880.0000	54.25	32.54	-45.53	41.26	74.00	32.74	218	257	Vertical		
2	4880.5	50.57	32.55	-45.53	37.58	54.00	16.42	174	257	Vertical		
3	7700	54.72	36.59	-43.12	48.18	74.00	25.82	186	286	Vertical		
4	7700.5	52.30	36.59	-43.12	45.77	54.00	8.23	152	84	Vertical		
5	9760.0000	38.17	38.26	-39.46	36.97	74.00	37.03	142	286	Vertical		
6	9760.0000	30.69	38.26	-39.46	29.49	54.00	24.51	136	314	Vertical		



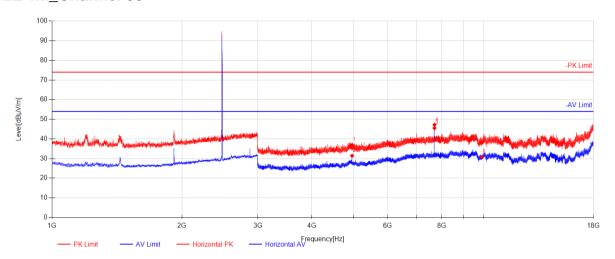
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BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.77	32.77	-45.60	36.94	74.00	37.06	247	226	Horizontal			
2	4960.5	44.26	32.77	-45.60	31.43	54.00	22.57	123	170	Horizontal			
3	7700.5	52.05	36.59	-43.12	45.52	54.00	8.48	169	255	Horizontal			
4	7700.5	53.72	36.59	-43.12	47.19	74.00	26.81	152	255	Horizontal			
5	9920.0000	39.07	38.38	-39.31	38.14	74.00	35.86	191	29	Horizontal			
6	9920.0000	31.61	38.38	-39.31	30.68	54.00	23.32	170	29	Horizontal			



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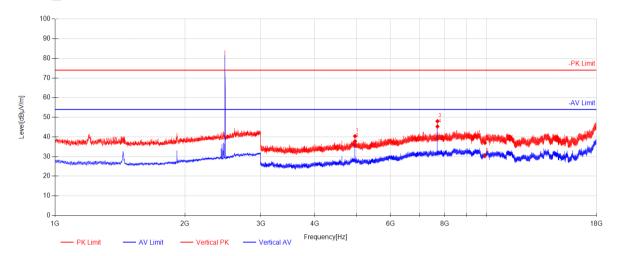
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BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	53.23	32.77	-45.60	40.40	74.00	33.60	211	283	Vertical			
2	4960.5	50.65	32.77	-45.60	37.82	54.00	16.18	145	255	Vertical			
3	7700	54.54	36.59	-43.12	48.00	74.00	26.00	136	84	Vertical			
4	7700.5	51.86	36.59	-43.12	45.33	54.00	8.67	256	84	Vertical			
5	9920.0000	37.91	38.38	-39.31	36.98	74.00	37.02	195	312	Vertical			
6	9920.0000	31.34	38.38	-39.31	30.41	54.00	23.59	148	360	Vertical			

Remark:

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

Level = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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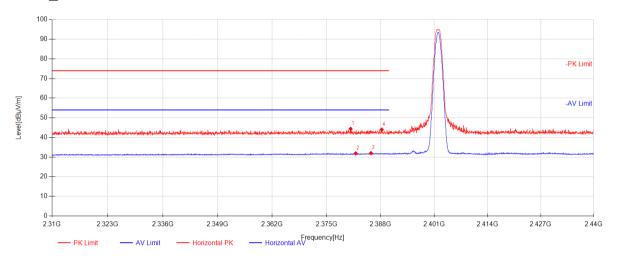


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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2380.8067	40.52	27.43	-23.57	44.38	74.00	29.62	133	215	Horizontal			
2	2382.02	28.03	27.43	-23.57	31.89	54.00	22.11	133	215	Horizontal			
3	2385.7033	28.15	27.43	-23.57	32.01	54.00	21.99	133	215	Horizontal			
4	2388.3033	40.15	27.43	-23.57	44.01	74.00	29.99	133	215	Horizontal			



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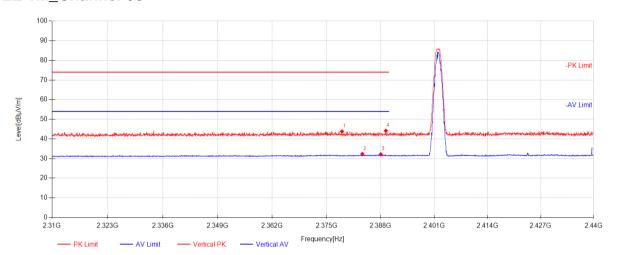
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BLE 1M_Channel 00



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2378.7267	39.99	27.43	-23.57	43.85	74.00	30.15	256	220	Vertical			
2	2383.6233	28.47	27.43	-23.57	32.33	54.00	21.67	256	220	Vertical			
3	2388.0867	28.30	27.43	-23.57	32.16	54.00	21.84	256	220	Vertical			
4	2389.3	40.30	27.43	-23.57	44.16	74.00	29.84	256	220	Vertical			



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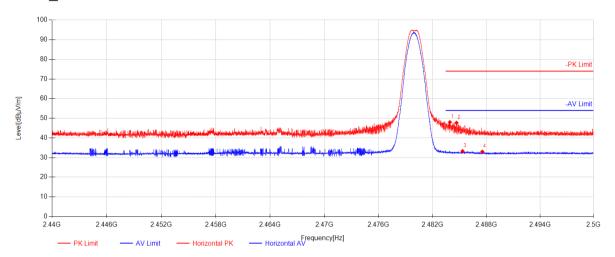
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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.9425	43.84	27.72	-23.54	48.01	74.00	25.99	248	344	Horizontal
2	2484.6775	43.51	27.72	-23.54	47.68	74.00	26.32	248	344	Horizontal
3	2485.3525	29.09	27.72	-23.54	33.27	54.00	20.73	248	344	Horizontal
4	2487.5575	28.80	27.73	-23.54	32.99	54.00	21.01	248	344	Horizontal



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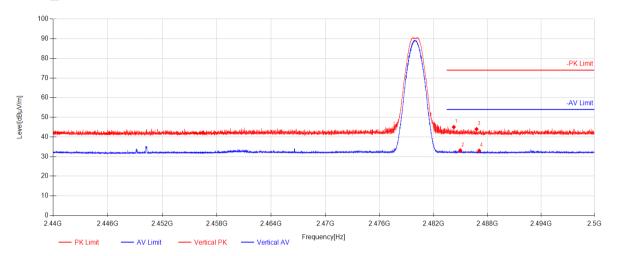
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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.265	40.86	27.72	-23.54	45.03	74.00	28.97	256	102	Vertical
2	2484.9925	28.95	27.72	-23.54	33.13	54.00	20.87	256	102	Vertical
3	2486.8	39.77	27.73	-23.54	43.95	74.00	30.05	256	102	Vertical
4	2487.1	28.81	27.73	-23.54	32.99	54.00	21.01	256	102	Vertical

Remark:

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

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

---End of Report---



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