

Report No.: SEWM2302000050RG04

Rev.: 01 Page: 1 of 39

### **TEST REPORT**

Application No.: SEWM2302000050RG

Applicant: Great Talent Technology Limited

Address of Applicant: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R.

China

Manufacturer: Great Talent Technology Limited

Address of Manufacturer: 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R.

China

EUT Description: Smart phone
Model No.: SV55216
Trade Mark: Schok

FCC ID: 2ALZM-SV55216

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

**Date of Receipt:** 2023/02/22

**Date of Test:** 2023/02/26 to 2023/03/02

**Date of Issue:** 2023/03/03

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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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 2 of 39

### Version

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023/03/03		Original				

Prepared By	King-P Li				
	(King-p Li) / Test Engineer				
Checked By	men men				
	(Well Wei) / Reviewer				



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 3 of 39

2 **Test Summary** 

Test Item	FCC Rule No.	Rule No. Test Method		Result	
Antenna Requirement	15.203/15.247(b)		Reference report 210522010RFC-1		
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			
Power Spectral Density	OCCION II. 10.2		Reference 210522010	ence report	
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	210322010	JKFO-1	
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11			
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	



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 4 of 39

#### Remark:

This test report (Report No.: SEWM2302000050RG04 issue on 2023/03/03) is based on the original test report (Report No.: 210522010RFC-1 issue on 2021/06/29).

#### Reference detail section:

Therefore in this report AC Power Line Conducted Emission, Conducted Peak Output Power, Radiated Spurious Emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number 210522010RFC-1 issue on 2021/06/29 and other test data please refer to the previous report with report number 210522010RFC-1 issue on 2021/06/29.



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 5 of 39

### **Contents**

1	Versio	on	2
2	Test S	Summary	3
3	Gener	al Information	6
	3.1	Details of Client	6
	3.2	Test Location	6
	3.3	Test Facility	6
	3.4	General Description of EUT	7
	3.5	Test Environment	9
	3.6	Description of Support Units	9
4	Test re	esults and Measurement Data	10
	4.1	Antenna Requirement	10
	4.2	AC Power Line Conducted Emissions	11
	4.3	Duty Cycle	15
	4.4	Conducted Output Power	16
	4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	17
	4.6	Power Spectral Density	18
	4.7	Band-edge for RF Conducted Emissions	19
	4.8	RF Conducted Spurious Emissions	20
	4.9	Radiated Spurious Emissions	21
	4.10	Restricted bands around fundamental frequency	24
5	Measu	urement Uncertainty (95% confidence levels, k=2)	26
6	Equipr	ment List	27
7	Photo	graphs - Setup Photos	29



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 6 of 39

### 3 General Information

#### 3.1 Details of Client

Applicant:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

#### 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:	King-p Li, Ives Cheng

### 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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Report No.: SEWM2302000050RG04

Rev.: Page: 7 of 39

### 3.4 General Description of EUT

EUT Description:	Smart phone
Model No.:	SV55216
Trade Mark:	Schok
Hardware Version:	Q5505_V1.0
Software Version:	SV55216_01.02.02.230111
IMEI:	356566229915301
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V4.1
Modulation Type:	GFSK
Number of Channel:	40
Datas Typa*i	⊠Provided by client
Rates Type*:	1M PHY 2M PHY
Antenna Type:	PIFA Antenna
	2.01dBi
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	1dB
Remark:	



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 8 of 39

	1 age. 0 01 00							
	Operation Frequency of each channel							
Channel	Channel Frequency Chan		el 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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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 9 of 39

#### 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	3.85			
Remark:					

NV: Normal VoltageNT: Normal Temperature

### 3.6 Description of Support Units

The EUT has been tested as an independent unit.



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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 10 of 39

### 4 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 PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is 2.01dBi. \*

\*Note:

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

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Report No.: SEWM2302000050RG04

Rev.: Page: 11 of 39

### 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:	Frequency range(MHz)	Limit (d	BuV)			
	rrequericy 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			
	<ol> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>					



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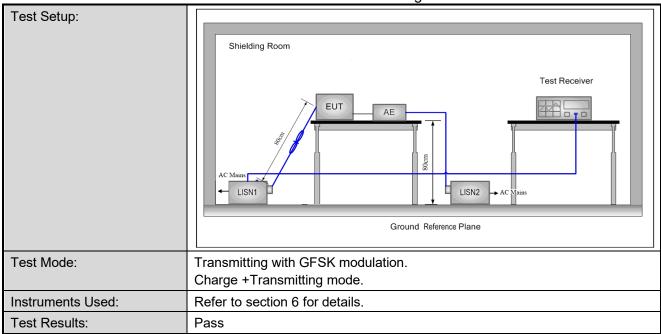
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Rev.: 01 Page: 12 of 39





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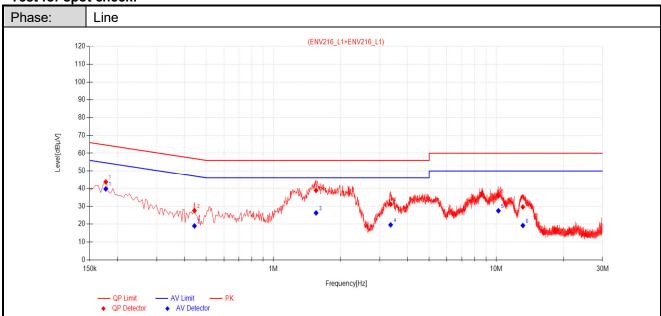
Rev.: 01 Page: 13 of 39

#### 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 were detected.

#### Test for spot check:



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	32.90	43.65	64.63	20.98	28.98	39.73	54.63	14.90	PASS
2	0.4425	10.56	17.05	27.61	57.01	29.40	8.45	19.01	47.01	28.00	PASS
3	1.5540	10.77	28.16	38.93	56.00	17.07	15.51	26.28	46.00	19.72	PASS
4	3.3585	10.69	20.45	31.14	56.00	24.86	8.93	19.62	46.00	26.38	PASS
5	10.2255	10.63	25.25	35.88	60.00	24.12	16.86	27.49	50.00	22.51	PASS
6	13.1685	10.56	19.05	29.61	60.00	30.39	8.70	19.26	50.00	30.74	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[dB $\mu$ V] Value[dB $\mu$ V]



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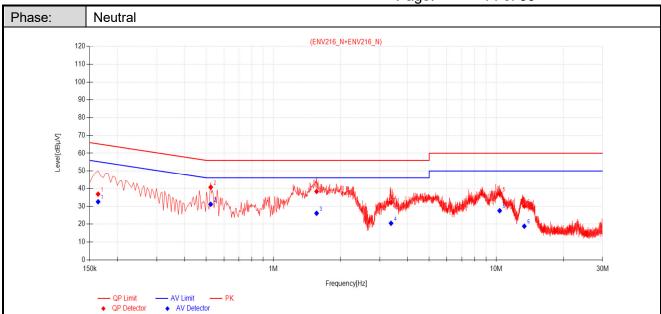
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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 14 of 39



Final	Final Data List										
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1	0.1635	10.72	26.10	36.82	65.28	28.46	21.82	32.54	55.28	22.74	PASS
2	0.5235	10.78	29.90	40.68	56.00	15.32	20.34	31.12	46.00	14.88	PASS
3	1.5630	10.77	27.54	38.31	56.00	17.69	15.32	26.09	46.00	19.91	PASS
4	3.3720	10.64	21.43	32.07	56.00	23.93	9.88	20.52	46.00	25.48	PASS
5	10.3605	10.66	26.14	36.80	60.00	23.20	16.89	27.55	50.00	22.45	PASS
6	13.3620	10.62	19.47	30.09	60.00	29.91	8.24	18.86	50.00	31.14	PASS

#### Remark:

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



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Rev.: Page: 15 of 39

### 4.3 Duty Cycle

The detailed test data see: Reference report 210522010RFC-1



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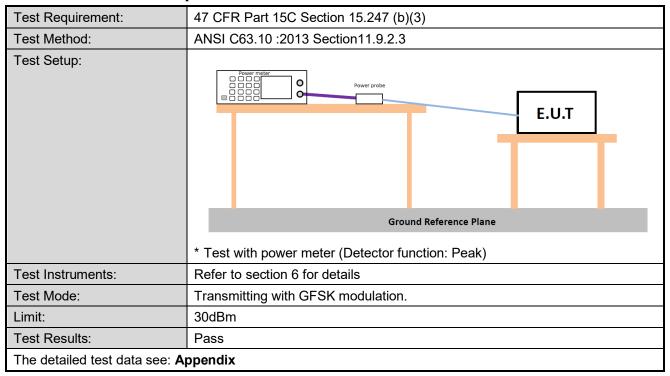
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Rev.: 01 Page: 16 of 39

### 4.4 Conducted Output Power





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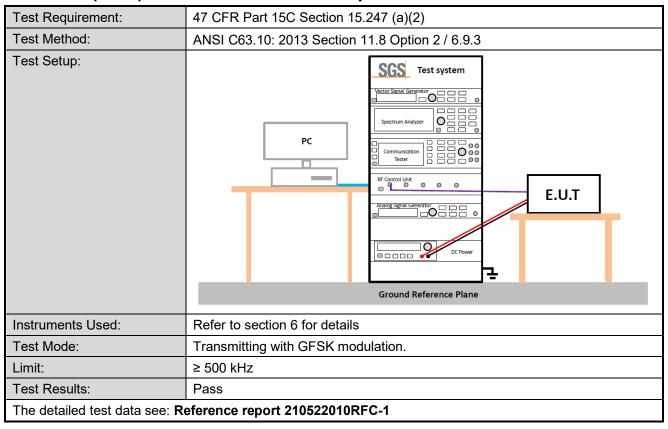
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Rev.: 01 Page: 17 of 39

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





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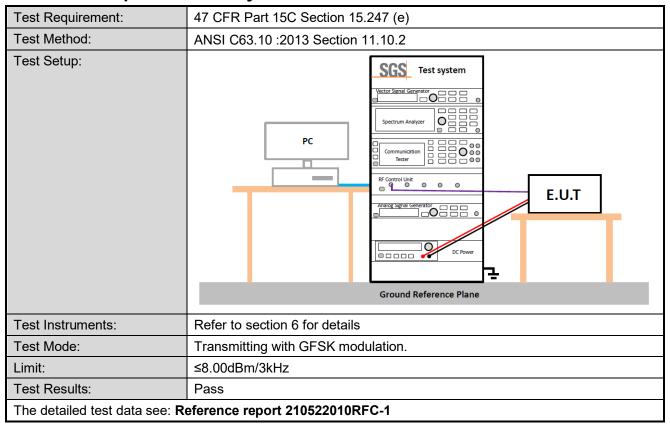
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Rev.: 01 Page: 18 of 39

### 4.6 Power Spectral Density





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Report No.: SEWM2302000050RG04

Rev.: 19 of 39 Page:

### 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    Sector Signal Generator   Spectrum Analyzer   Spectrum Analy					
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: R	eference report 210522010RFC-1					



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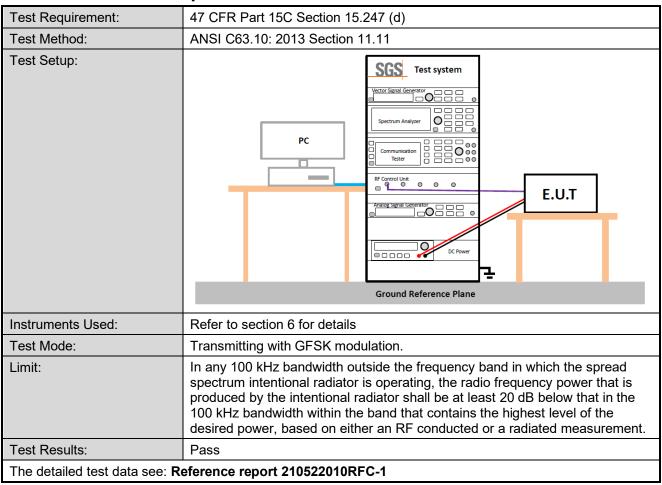
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Rev.: 01 Page: 20 of 39

### 4.8 RF Conducted Spurious Emissions





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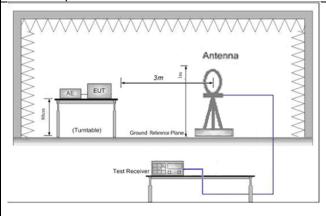
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Rev.: 01 Page: 21 of 39

### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	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-Anecho	ic Chamber)	)				
Test Frequency:	9kHz ~ 25GHz							
Limit:	Frequency Field strength Limit (microvolt/meter) (dBuV/m) Remark							
	0.009MHz-0.490MHz	0.009MHz-0.490MHz 2400/F(kHz)		-	300			
	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 freque emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total permitted average emission limit applicable to the equipment under test.								
	emission level radiated b	by the device.						

#### Test Setup:



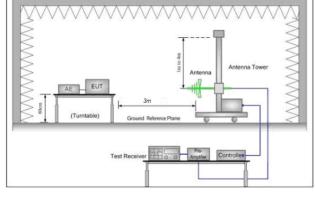


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz



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Rev.: 01 Page: 22 of 39

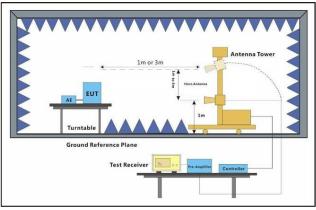


Figure 3. Above 1 GHz

#### 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 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. 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
- k. 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.
- I. 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 = Quasi-peak
- Trace mode = max hold



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Report No.: SEWM2302000050RG04

Rev.: Page: 23 of 39

	1 age. 23 01 39				
	Peak Measurements Above 1000 MHz				
	• RBW = 1 MHz				
	• VBW ≥ 3 MHz				
	Detector = Quasi-peak				
	Sweep time = auto				
	Trace mode = max hold				
	Average Measurements Above 1000MHz				
	• RBW = 1 MHz				
	VBW = 10 Hz, when duty cycle is no less than 98 percent.				
• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum.					
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.				
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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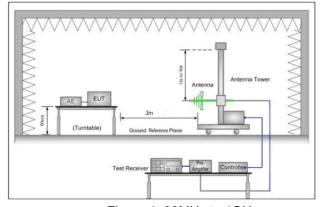
Report No.: SEWM2302000050RG04

Rev.: 01 Page: 24 of 39

### 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	ANSI C63.10: 2013 Section 11.12						
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)						
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 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

#### Test Setup:



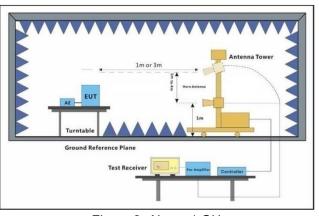


Figure 1. 30MHz to 1GHz

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.
- Place a marker at the end of the restricted band closest to the transmit



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Report No.: SEWM2302000050RG04

Rev.: 01 25 of 39 Page:

	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  i. 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:	<ul> <li>Measurements Below 1000MHz</li> <li>RBW = 120 kHz</li> <li>VBW = 300 kHz</li> <li>Detector = Quasi-peak</li> <li>Trace mode = max hold</li> <li>Peak Measurements Above 1000 MHz</li> <li>RBW = 1 MHz</li> <li>VBW ≥ 3 MHz</li> <li>Detector = Quasi-peak</li> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> <li>Average Measurements Above 1000MHz</li> <li>RBW = 1 MHz</li> <li>VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
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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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 26 of 39

### 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%			
5	Duty Cycle	±0.37%			
6	Occupied Bandwidth	1%			
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)			
		± 3.13dB (9k -30MHz)			
8	Radiated Emission	± 4.8dB (30M -1GHz)			
ŏ	Radiated Emission	± 4.8dB (1GHz to 18GHz)			
		± 4.8dB (Above 18GHz)			

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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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Report No.: SEWM2302000050RG04

Rev.: Page: 27 of 39

**Equipment List** 6

o Equipment List										
	Conduction Test Equipment									
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	2023/02/08	2024/02/07					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06					
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07					
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07					
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR					

	RSE Test System									
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-04-02-01	2021/05/08	2024/05/07					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06					
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27					
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22					
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15					
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13					
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05					
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05					
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07					
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09					
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR					



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Report No.: SEWM2302000050RG04

Rev.: Page: 28 of 39

	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	2023/02/06	2024/02/05				
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	2023/02/06	2024/02/05				
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05				
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22				
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22				
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05				
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05				



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Report No.: SEWM2302000050RG04

Rev.: 01

Page: 29 of 39

### 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Page: 30 of 39

# **Appendix**



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Rev.:

Page: 31 of 39

### Maximum conducted output power

### Test for spot check:

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2402	1.23	≤30	PASS
BLE_1M	Ant1	2440	1.57	≤30	PASS
		2480	0.62	≤30	PASS



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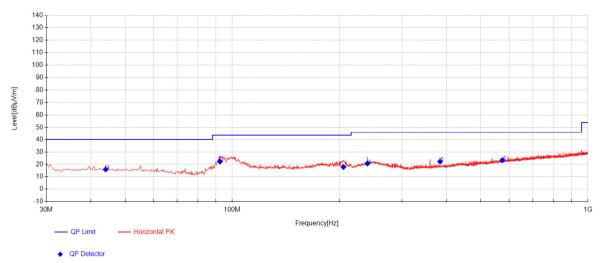
Rev.: 01 Page: 32 of 39

### **Test for spot check:**

### **Radiated Spurious Emissions**

#### Radiated emission below 1GHz

Worst case Mode: BLE 1M\_Channel 39



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	44.065	30.24	-28.05	13.73	15.92	40.00	24.08	296	23	Horizontal
2	92.3225	40.26	-27.60	9.60	22.27	43.50	21.23	265	192	Horizontal
3	205.3275	34.63	-26.82	10.08	17.88	43.50	25.62	241	89	Horizontal
4	240.005	35.63	-26.20	11.24	20.67	46.00	25.33	142	303	Horizontal
5	384.05	33.26	-25.46	14.45	22.25	46.00	23.75	263	45	Horizontal
6	574.4125	30.06	-24.63	17.84	23.28	46.00	22.72	221	192	Horizontal



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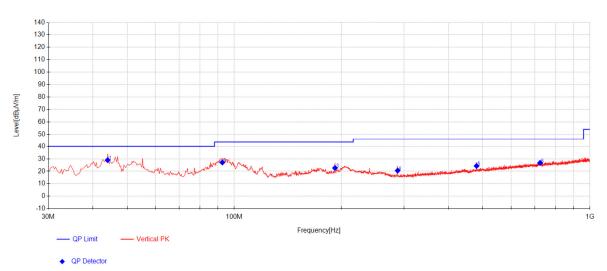
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Rev.: 01 Page: 33 of 39



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	44.065	43.26	-28.05	13.73	28.94	40.00	11.06	296	22	Vertical					
2	92.565	45.03	-27.59	9.62	27.06	43.50	16.44	265	359	Vertical					
3	191.99	38.02	-27.20	11.81	22.63	43.50	20.87	284	148	Vertical					
4	288.02	34.24	-26.20	12.51	20.54	46.00	25.46	142	68	Vertical					
5	480.08	33.01	-25.04	16.29	24.26	46.00	21.74	263	113	Vertical					
6	724.2775	30.29	-23.49	19.95	26.75	46.00	19.25	221	360	Vertical					

#### Remark:

 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( $dB\mu V/m$ )



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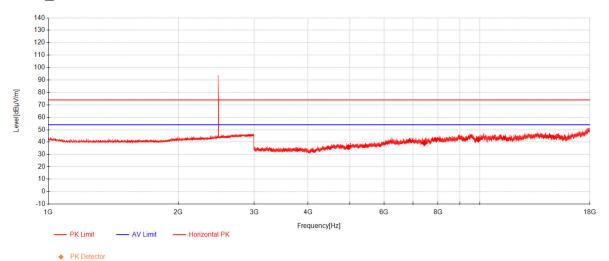


Report No.: SEWM2302000050RG04

Rev.: 01 Page: 34 of 39

### **Transmitter emission Above 1GHz**

### **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	48.16	32.50	-44.92	35.75	74.00	38.25	266	359	Horizontal			
2	7440	44.24	36.46	-41.83	38.88	74.00	35.12	285	359	Horizontal			
3	9920	40.52	38.51	-37.22	41.81	74.00	32.19	241	145	Horizontal			



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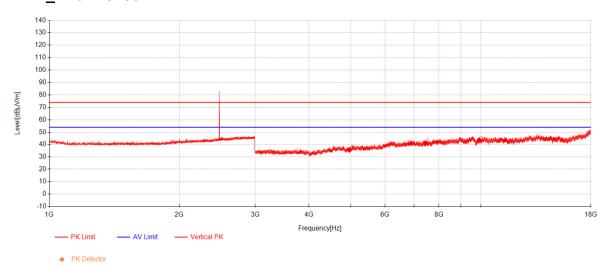
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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 35 of 39

### 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	47.88	32.50	-44.92	35.47	74.00	38.53	296	272	Vertical			
2	7440	46.21	36.46	-41.83	40.85	74.00	33.15	241	357	Vertical			
3	9920	42.11	38.51	-37.22	43.40	74.00	30.60	145	61	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)



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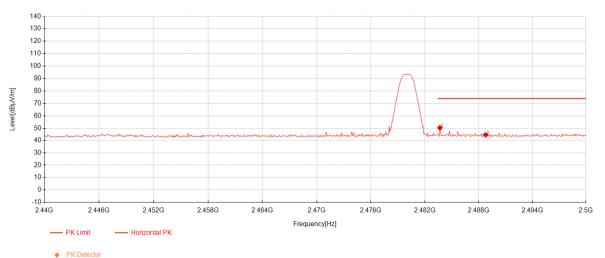
Rev.: 01

Page: 36 of 39

### Test for spot check:

### Restricted bands around fundamental frequency

### 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	2483.68	46.53	27.87	-23.96	50.44	74.00	23.56	149	133	Horizontal			
2	2488.78	40.49	27.88	-23.93	44.44	74.00	29.56	149	133	Horizontal			



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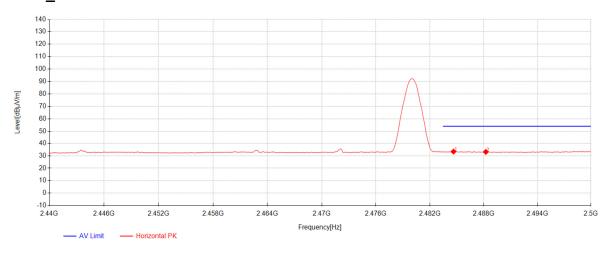
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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 37 of 39

### **BLE 1M\_Channel 39**



PK Detector

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	2484.64	29.42	27.87	-23.95	33.34	54.00	20.66	149	133	Horizontal			
2	2488.24	29.09	27.88	-23.93	33.03	54.00	20.97	149	133	Horizontal			



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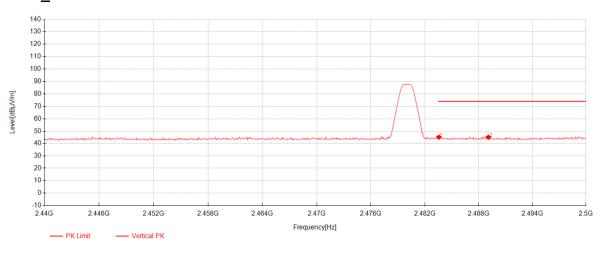
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Rev.: 01 Page: 38 of 39

### **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	2483.56	41.13	27.87	-23.96	45.04	74.00	28.96	263	235	Vertical			
2	2489.08	41.06	27.88	-23.93	45.01	74.00	28.99	263	235	Vertical			



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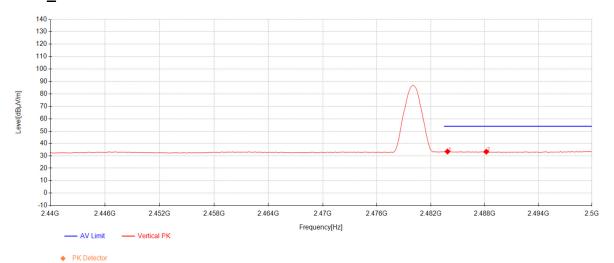
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Report No.: SEWM2302000050RG04

Rev.: 01 Page: 39 of 39

#### BLE 1M\_Channel 39



**Data List** Frequency Reading Factor Limit Margin Height Angle Level NO. Polarity [MHz] [dBµV] [dB/m] [dB] [dBµV/m] [dBµV/m] [dB] [cm] [°] 2483.86 27.87 -23.96 235 1 29.46 33.37 54.00 20.63 263 Vertical 2 235 2488.18 29.28 27.88 -23.93 33.22 54.00 20.78 263 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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