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 SEWM2304000115RG06

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TEST REPORT

Application No:	SEWM2304000115RG
Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
EUT Description:	Smart Phone
Model No.:	U380AA, U380AC
FCC ID:	XD6U380AA
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2023/04/20
Date of Test:	2023/05/09 to 2023/05/26
Date of Issue:	2023/05/26
Test Result :	PASS *

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

Authorized Signature:

Sun Da.

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023/05/26		Original

Prepared By	Tiny Song (Tizzy Song) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

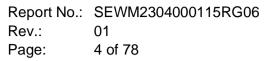
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Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

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:	Smart Phone	
Model No.:	U380AA, U380AC	
Hardware Version:	V1.0	
Software Version:	U380AAV01.09.10	
IMEI:	RF Conducted	860719060004821
	RSE & AC power line	860719060004334
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MH -fc = "Operating Frequency -N = "Channel Number" wi	/ ["] in MHz,
Bluetooth version:	Bluetooth V5.0	
Modulation Type:	GFSK	
Number of Channel:	40	
Detec Timet	Provided by client	
Rates Type*:	1M PHY 2M PH	Y
Antenna Type:	🗌 External, 🖂 Integrated	
	0.26dBi(Ant2)	
Antenna Gain:	Note: The antenna gain are deri by the manufacturer.	ved from the gain information report provided
RF Cable:	1.0dB	
Note: *Since the above data and/	or information is provided by	the client relevant results or conclusions of this

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. Remark:

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				ı ay	<u>c.</u> 701	10	
		Opera	ation Frequen	cy of each cl	nannel		
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:

S

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	101.0kPa Selected	Values During Tests
Relative Humidity	44-46 % R	RH Ambient
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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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 Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 0.26dBi(Ant2). *

*Note:

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

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4.2 AC Power Line Conducted Emissions

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Test Requirement:	47 CFR Part 15C Sectio	n 15.207	
Test Method:	ANSI C63.10-2020 Sect	ion 6.2	
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz	
Limit:		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:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same way multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference pla placed on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and by mounted on top of th the closest points of the and associated equip 5) In order to find the m and all of the interface 	sturbance voltage test was contend to AC power source throwing ter cables of all other units of the LISN 2, which was bonded ay as the LISN 1 for the unit be a strip was used to connect must be rating of the LISN was not as placed upon a non-metallice of the rating of the LISN was not a splaced upon a non-metallice of the avertical ground reference plane. And for floor-standing arrantal ground reference plane. The test of the vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the vertical ground reference plane. The test of the LISN 1 and the EUT. All of the LISN 1 and the EUT. All coment was at least 0.8 m from the vertical ground reference plane to the test of tes	igh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference eing measured. A ultiple power cables to a bt exceeded. table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The horizontal ground m the boundary of the plane for LISNs is distance was between ther units of the EUT o the LISN 2. e positions of equipment



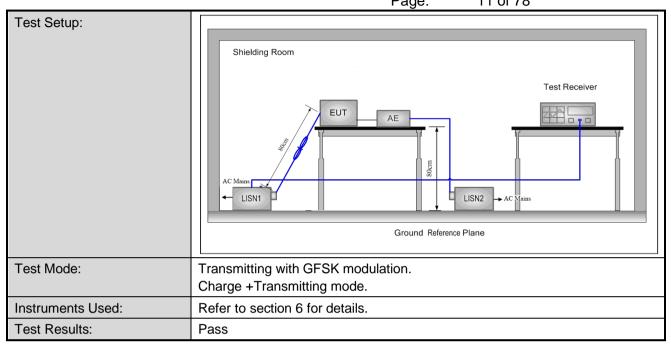
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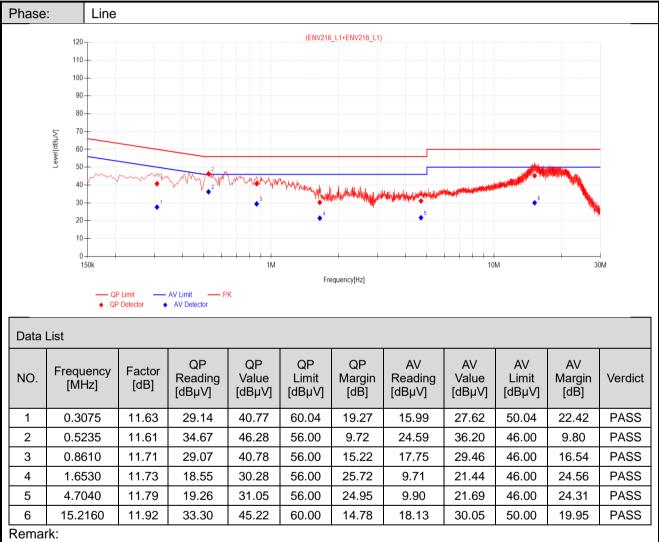
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Measurement Data

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 were detected.

BLE 1M:



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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								Report No Rev.: Page:	01	WM2304 of 78	000115	RG06
hase:	:	Neut	tral									
	120					(ENV21)	6_N+ENV216_N)					
	110											
	100											
	90											
	80											
	Σ ⁷⁰	+										
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	a 50											-
	40	+~~~	Mun-	Marth.	mann	Well-some while a we	u da Madri i na	101111111			No.	
	30	+		↓ ¹	◆ ²	. Millell	WAR AN AN AN AN	A CANADA CANA		• ⁶		
	20					• ³	◆ ⁴		5			-
	10											
	0	50k				Ere	equency(Hz)		10	M	30	- DM
Data L	01	150k		AV Limit — P		Fre	equency[Hz]		10	M	30	J DM
Data L NO.	01					Fre QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
	List	50k 	Potector	AV Detector	k QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	
NO.	List Frequ	→ or → or → or ↓ ↓ ↓ ↓ ↓ ↓ ↓	Petector Factor [dB]	QP Reading [dBµV]	κ QP Value [dBμV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. 1	List Frequ [Mł	Jency Hz] 470 610	Factor [dB] 11.61	QP Reading [dBµV] 28.05	QP Value [dBµV] 39.66	QP Limit [dBµV] 56.93	QP Margin [dB] 17.27	Reading [dBµV] 14.43	AV Value [dBµV] 26.04	ΑV Limit [dBμV] 46.93	AV Margin [dB] 20.89	Verdic
NO. 1 2	List Frequ [Mi 0.44 0.86	Jency Hz] 470 620	Factor [dB] 11.61 11.71	AV Detector QP Reading [dBµV] 28.05 27.05	к QP Value [dBµV] 39.66 38.76	QP Limit [dBµV] 56.93 56.00	QP Margin [dB] 17.27 17.24	Reading [dBμV] 14.43 15.35	ΑV Value [dBμV] 26.04 27.06	AV Limit [dBµV] 46.93 46.00	AV Margin [dB] 20.89 18.94	Verdic PASS PASS
NO. 1 2 3	List Frequ [Mł 0.44 0.8(1.6(Jency Hz] 470 610 620 350	Factor [dB] 11.61 11.71 11.73	AV Detector QP Reading [dBµV] 28.05 27.05 16.88	QP Value [dBμV] 39.66 38.76 28.61	QP Limit [dBµV] 56.93 56.00 56.00	QP Margin [dB] 17.27 17.24 27.39	Reading [dBµV] 14.43 15.35 8.24	ΑV Value [dBμV] 26.04 27.06 19.97	AV Limit [dBµV] 46.93 46.00 46.00	AV Margin [dB] 20.89 18.94 26.03	Verdic PASS PASS PASS

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]



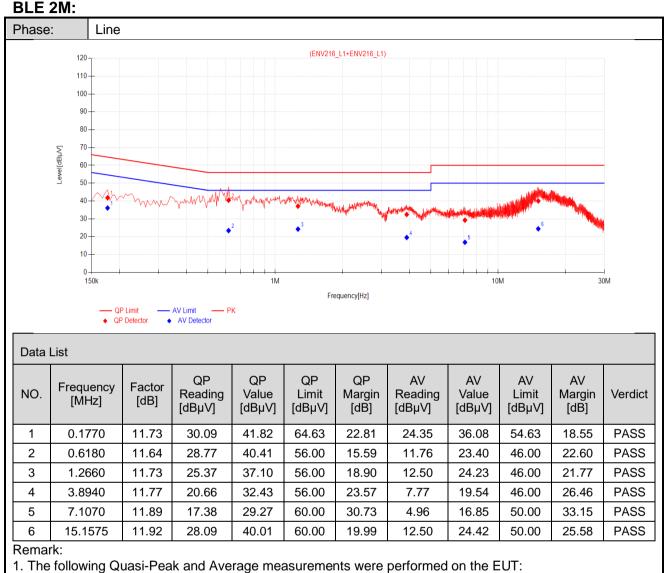
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2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[$dB\mu V$] – Value[$dB\mu V$]



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								Report No Rev.: Page:	01	VM2304 of 78	000115	RG06
hase:	:	Neut	tral									
	120 -					(ENV21	6_N+ENV216_N)					
	110-											
	100 -	_										
	90 -	-										
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	30 -			• ¹			3	4 24				
	20 -						•					
	10-											
	10-											
	0-	50k			1M	Ere			10	M	30	4 DM
Data L	0- 15	50k QF		AV Limit — P		Fre	equency[Hz]		10	M	30	DM
Data L NO.	0- 15	50k approximate of the second				Fre QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
	List	50k 	Potector	AV Detector QP Reading	k QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	Verdic
NO.	List Frequ	ency 1z]	Petector Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. 1	List Frequ [MH 0.43	ency 1z]	Factor [dB] 11.62	QP Reading [dBµV] 29.77	R QP Value [dBμV] 41.39	QP Limit [dBµV] 57.19	QP Margin [dB] 15.80	Reading [dBµV] 16.72	AV Value [dBµV] 28.34	AV Limit [dBµV] 47.19	AV Margin [dB] 18.85	Verdic PASS PASS
NO. 1 2	List Frequ [MH 0.43 0.61	ency 1z] 335 35 085	Factor [dB] 11.62 11.64	QP Reading [dBµV] 29.77 32.13	 QP Value [dBμV] 41.39 43.77 	QP Limit [dBµV] 57.19 56.00	QP Margin [dB] 15.80 12.23	Reading [dBµV] 16.72 22.09	ΑV Value [dBμV] 28.34 33.73	AV Limit [dBµV] 47.19 46.00	AV Margin [dB] 18.85 12.27	Verdic PASS PASS PASS
NO. 1 2 3	List Frequ [MH 0.43 0.61 2.00	50k → QF → QF	Factor [dB] 11.62 11.64 11.73	AV Detector QP Reading [dBµV] 29.77 32.13 18.46	 QP Value [dBμV] 41.39 43.77 30.19 	QP Limit [dBµV] 57.19 56.00 56.00	QP Margin [dB] 15.80 12.23 25.81	Reading [dBµV] 16.72 22.09 9.47	AV Value [dBµV] 28.34 33.73 21.20	AV Limit [dBμV] 47.19 46.00 46.00	AV Margin [dB] 18.85 12.27 24.80	

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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4.3 Duty Cycle

The detailed test data see: Appendix



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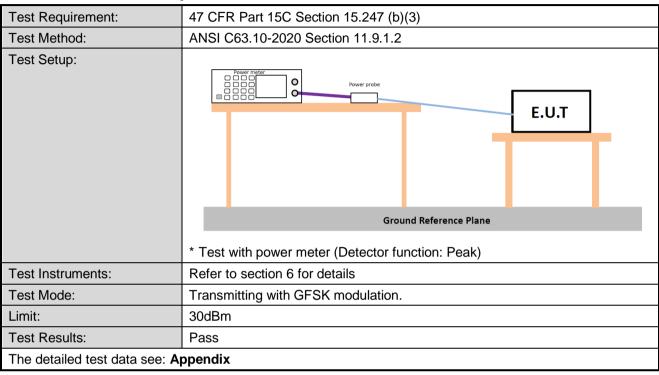
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4.4 Conducted Output Power

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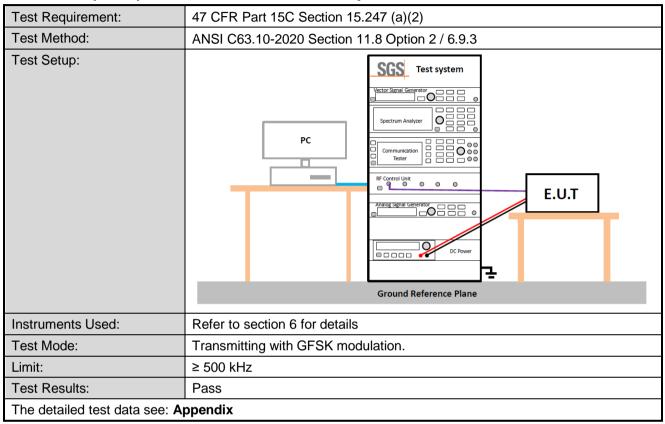
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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Test Requirement: 47 CFR Part 15C Section 15.247 (e) **Test Method:** ANSI C63.10-2020 Section 11.10.2 Test Setup: SGS Test system Vector Signal Generator \cap PC 0 munication Control Unit 0 0 0 E.U.T DC Po 1 Ground Reference Plane **Test Instruments:** Refer to section 6 for details Test Mode: Transmitting with GFSK modulation. Limit: ≤8.00dBm/3kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 Power Spectral Density

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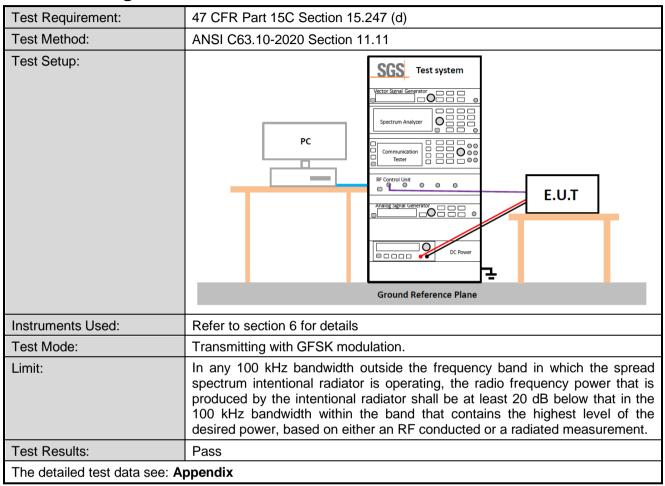
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4.7 Band-edge for RF Conducted Emissions





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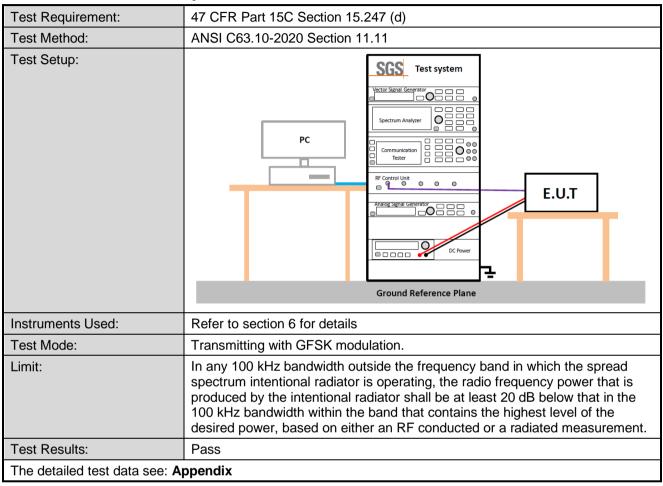
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4.8 **RF Conducted Spurious Emissions**





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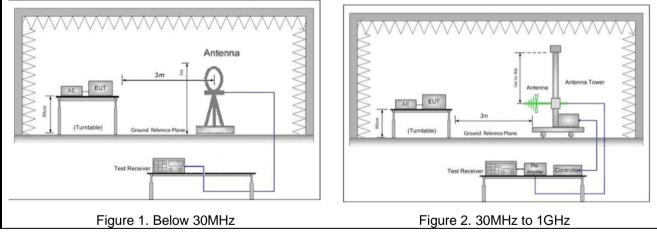
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2020 Sect	ion 11.12					
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	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 frequency						
	emissions is 20dB above			•			
	applicable to the equipm emission level radiated b		is peak limit	applies to the t	otal peak		

Test Setup:

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	Antenna Tower Im or 3m J m or 3
	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 $20*LOG(3/1) = 9.54 \text{ dB}.$
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	• VBW = 30 kHz
	Detector = Peak & Average & Quasi-peak Trace media = mean hold
	Trace mode = max hold



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	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000M • RBW = 1 MHz • VBW \geq [3 *RBW] • Detector = RMS (power averaging), i Satisfying this condition may require im- reducing the span. If this condition can be set to peak. • Sweep time = auto • Perform a trace average of at least 1	IHz if span / (# of p creasing the nu not be satisfied	umber of points in the sweep or
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.		
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitt For below 1GHz part, through pre-sca the worst case is recorded in the report	an, the worst c	ase is the lowest channel. Only
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	see: Appendix		



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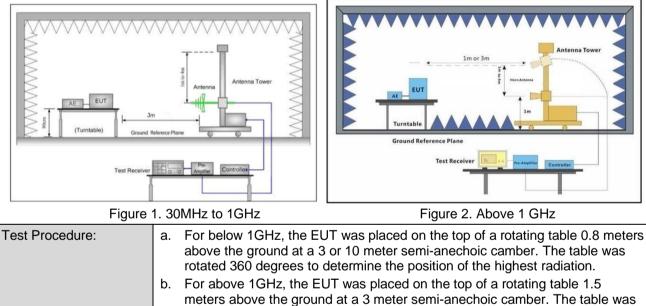
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10-2020 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-					
	Above 1GHz	54.0	Average Value			
	Above IGHZ	74.0	Peak Value			

Test Setup:



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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Test Configuration:	 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. Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz
	 VBW ≥ 3 MHz Detector = Peak
	 Detector = Peak Sweep time = auto
	 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 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 to 30MHz)		
0	Dedicted Emission	± 4.88dB (30M to 1GHz)		
8	Radiated Emission	± 4.75dB (1GHz to 18GHz)		
		± 4.77dB (Above 18GHz)		
Pomark:	•	·		

Remark:

S

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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6 Equipment List

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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&	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Signal Analyzei	SCHWARZ	F3V3030	3000-01-02-02	2023/05/11	2024/05/10		
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		
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21		

Conduction 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-04-03-01	2021/05/08	2024/05/07		
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		



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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-04-02-02	2021/11/25	2024/11/24			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	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-01-02-06	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 9168	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	Receiving SCHWRZBECK DBUA 0470 OLIMAL 04		SUWI-01-11-03	2021/05/14	2023/05/13			
antenna	MESS-ELEKTRONIK	BBHA 9170	5000-01-11-03	2023/05/11	2024/05/10			
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	2022/11/23	2023/11/22			
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22			
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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Appendix



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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant2	2402	0.69	2401.65	2402.34	≥0.5	PASS
BLE_1M	Ant2	2440	0.70	2439.65	2440.34	≥0.5	PASS
BLE_1M	Ant2	2480	0.70	2479.64	2480.34	≥0.5	PASS
BLE_2M	Ant2	2402	1.18	2401.41	2402.59	≥0.5	PASS
BLE_2M	Ant2	2440	1.18	2439.41	2440.59	≥0.5	PASS
BLE_2M	Ant2	2480	1.19	2479.40	2480.59	≥0.5	PASS



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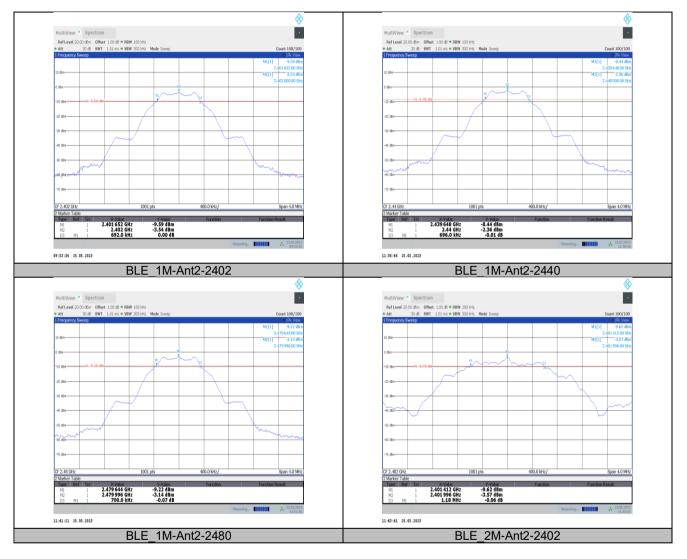
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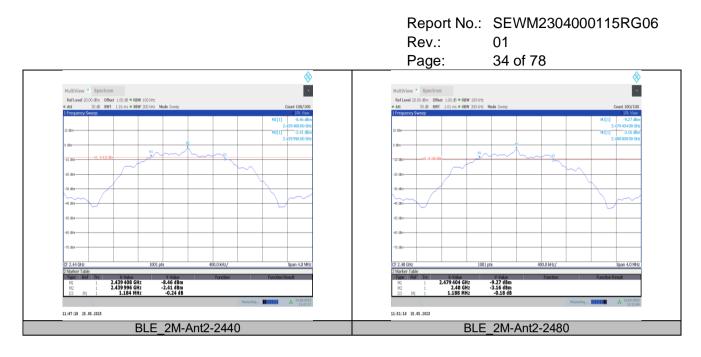
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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant2	2402	1.037	2401.4866	2402.5240	
BLE_1M	Ant2	2440	1.037	2439.4854	2440.5228	
BLE_1M	Ant2	2480	1.037	2479.4846	2480.5219	For Report
BLE_2M	Ant2	2402	2.063	2400.9796	2403.0431	Purpose
BLE_2M	Ant2	2440	2.064	2438.9765	2441.0403	
BLE_2M	Ant2	2480	2.062	2478.9753	2481.0377	



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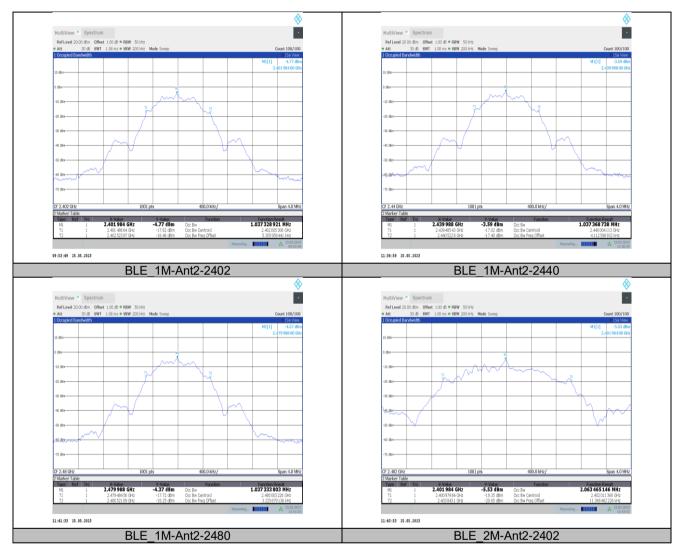
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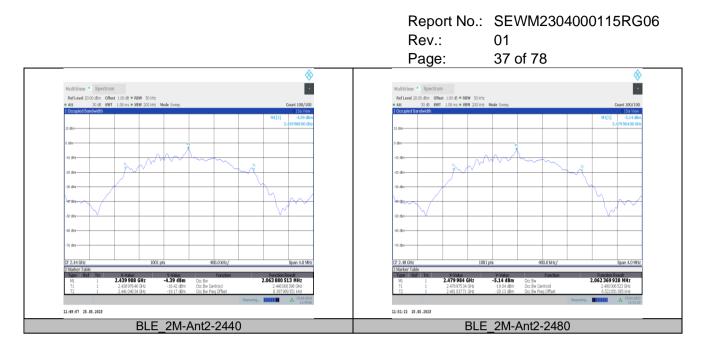
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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant2	2402	-3.45	≤30	PASS
BLE_1M	Ant2	2440	-2.68	≤30	PASS
BLE_1M	Ant2	2480	-3.33	≤30	PASS
BLE_2M	Ant2	2402	-3.41	≤30	PASS
BLE_2M	Ant2	2440	-2.45	≤30	PASS
BLE_2M	Ant2	2480	-3.28	≤30	PASS



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Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant2	2402	-18.03	≤8.00	PASS
BLE_1M	Ant2	2440	-16.87	≤8.00	PASS
BLE_1M	Ant2	2480	-17.6	≤8.00	PASS
BLE_2M	Ant2	2402	-20.55	≤8.00	PASS
BLE_2M	Ant2	2440	-19.48	≤8.00	PASS
BLE_2M	Ant2	2480	-20.17	≤8.00	PASS



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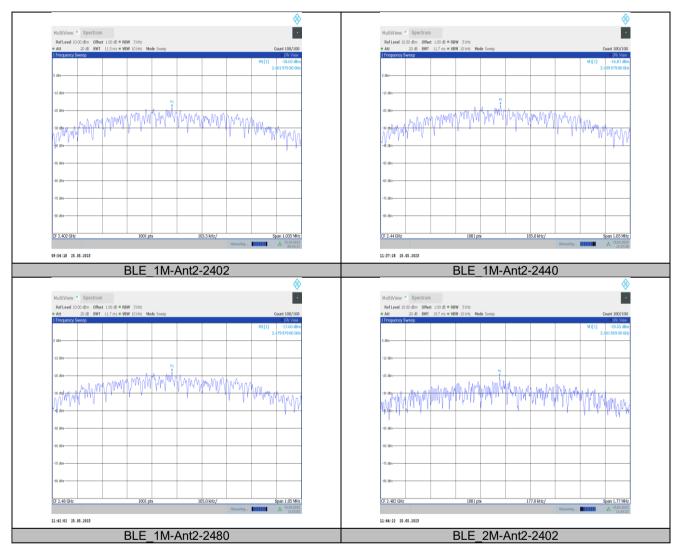
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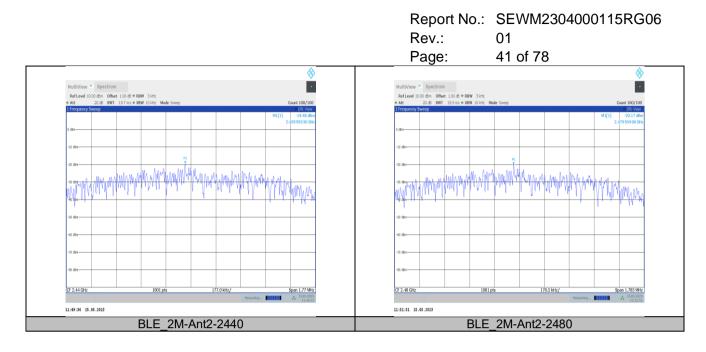
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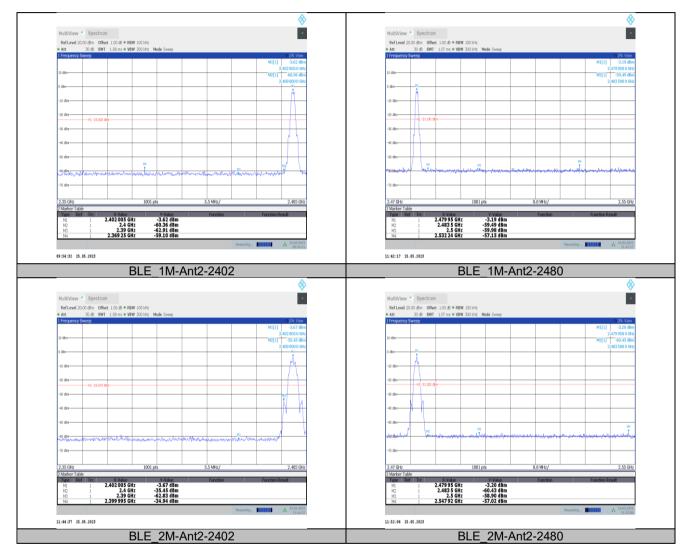
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Band edge measurements

Test Graphs





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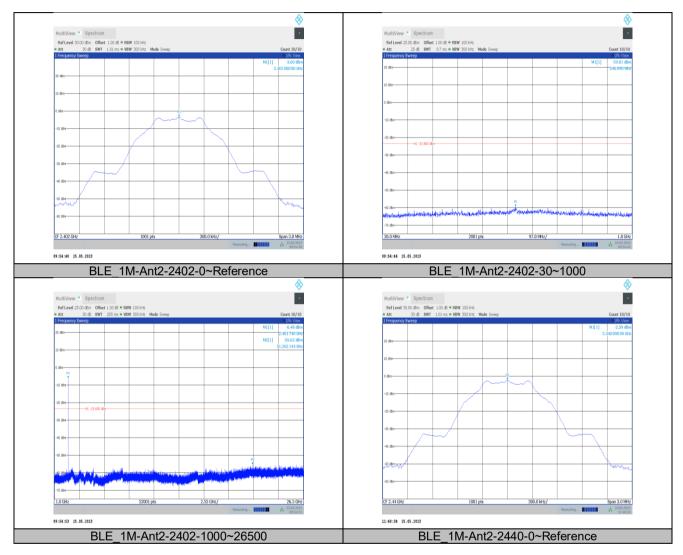
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Conducted Spurious Emission

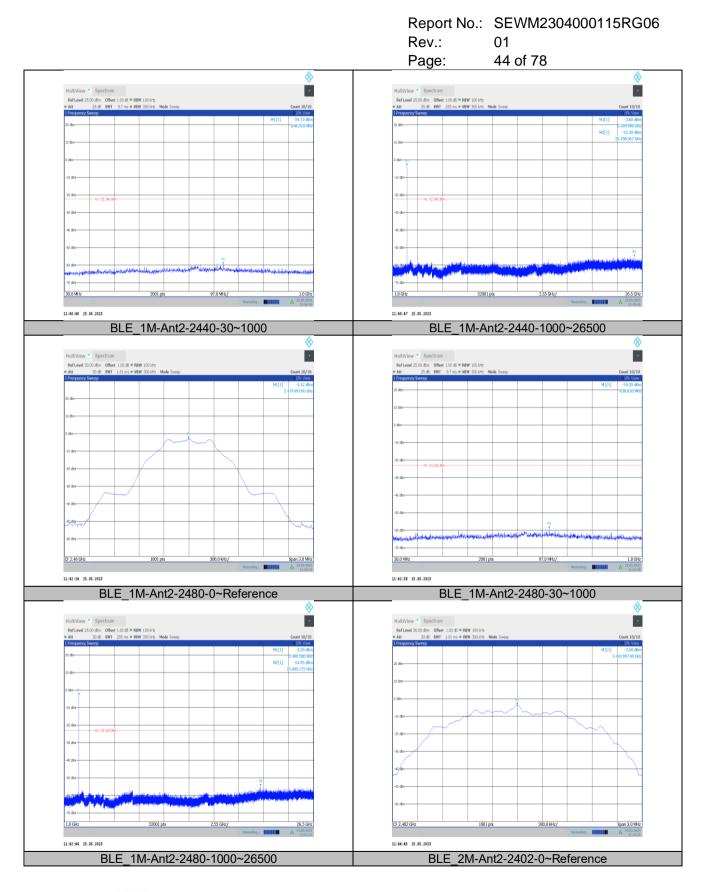
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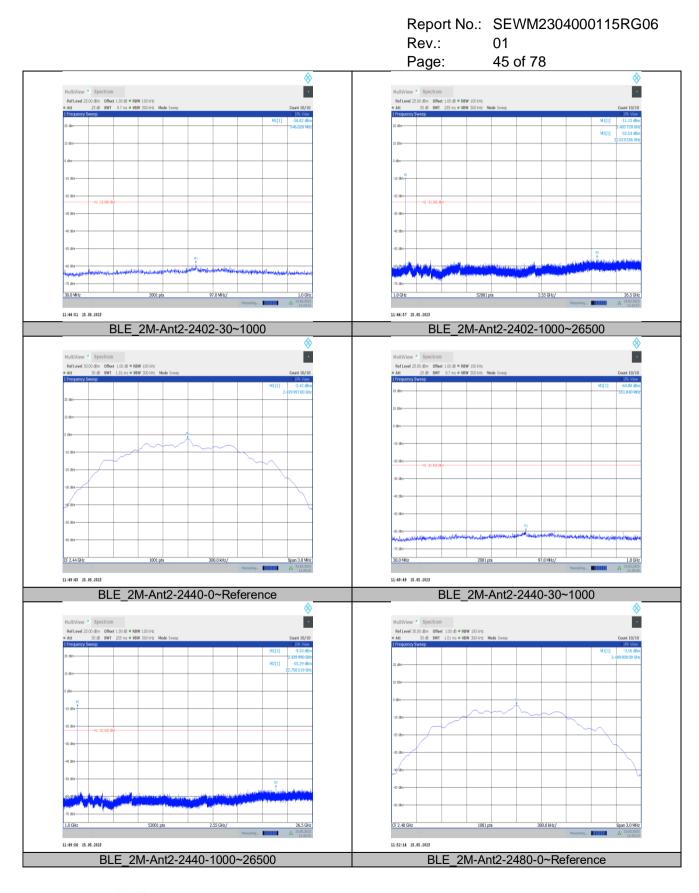
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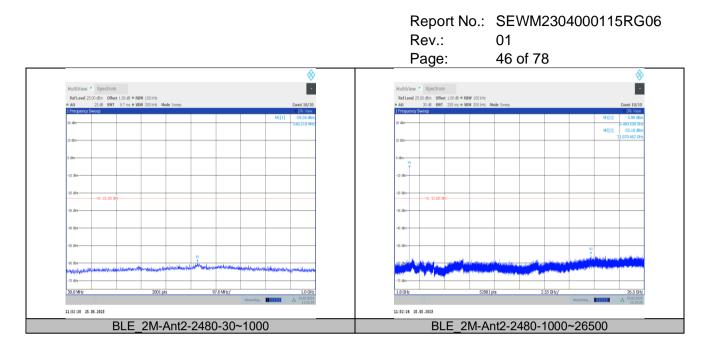
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Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant2	2402	0.38	0.63	60.32	2.20
BLE_2M	Ant2	2402	0.20	0.63	31.75	4.98

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.38	0.63	60.32	2.63158	2.7KHz
BLE_2M	0.20	0.63	31.75	5	5.1KHz



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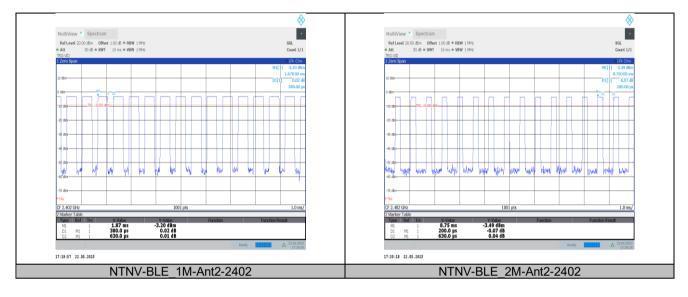
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Test Graphs





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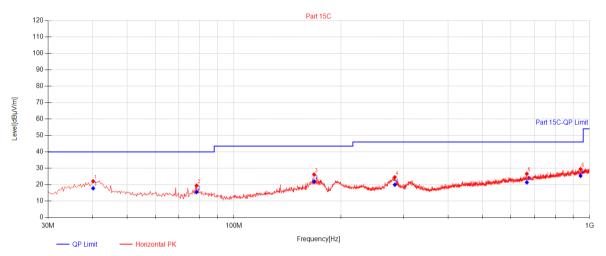
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 00

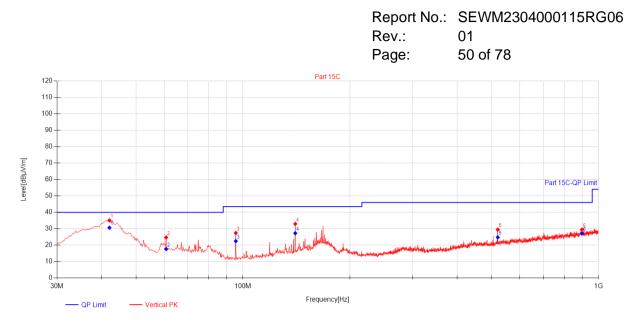


Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	40.185	44.30	14.05	-36.27	22.09	40.00	17.91	187	93	Horizontal		
2	78.5	45.69	9.52	-35.76	19.45	40.00	20.55	162	192	Horizontal		
3	167.9825	47.02	14.36	-35.18	26.20	43.50	17.30	199	11	Horizontal		
4	283.4125	46.50	12.39	-34.37	24.52	46.00	21.48	264	173	Horizontal		
5	666.32	39.76	19.20	-32.34	26.62	46.00	19.38	191	224	Horizontal		
6	943.4975	37.95	22.07	-30.52	29.50	46.00	16.50	138	264	Horizontal		



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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	42.125	57.41	13.89	-36.24	35.06	40.00	4.94	189	189	Vertical
2	60.7975	48.45	12.60	-36.41	24.64	40.00	15.36	192	128	Vertical
3	95.475	53.63	9.83	-36.06	27.40	43.50	16.10	174	118	Vertical
4	140.3375	54.94	13.52	-35.54	32.92	43.50	10.58	231	148	Vertical
5	520.82	45.20	16.88	-32.65	29.43	46.00	16.57	108	148	Vertical
6	898.3925	38.24	21.62	-30.36	29.50	46.00	16.50	123	28	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(dBµV) + 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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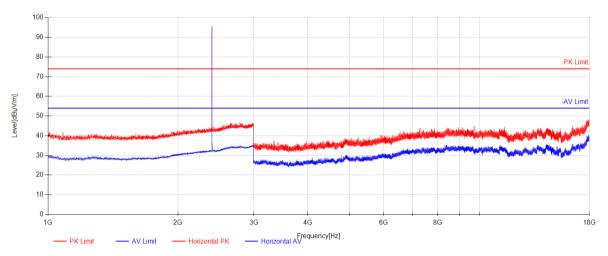
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Transmitter emission Above 1GHz

BLE 1M_Channel 00



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	4804.0000	47.81	32.33	-45.54	34.60	74.00	39.40	188	139	Horizontal		
2	7206.0000	46.64	36.60	-43.44	39.80	74.00	34.20	165	359	Horizontal		
3	9608.0000	42.11	38.43	-39.65	40.89	74.00	33.11	121	334	Horizontal		



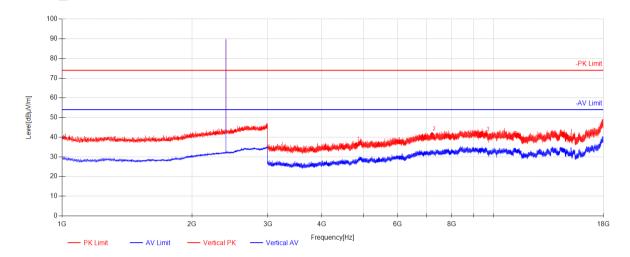
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4804.0000	49.57	32.33	-45.54	36.36	74.00	37.64	132	278	Vertical		
2	7206.0000	48.37	36.60	-43.44	41.53	74.00	32.47	165	353	Vertical		
3	9608.0000	42.50	38.43	-39.65	41.28	74.00	32.72	214	4	Vertical		



BLE 1M_Channel 00

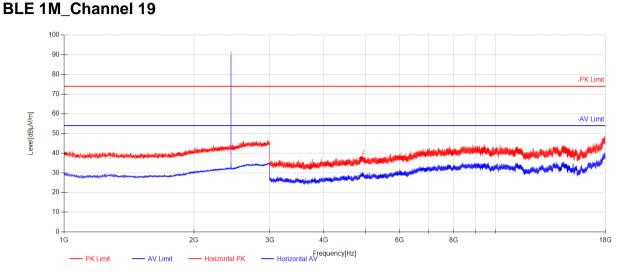
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1	3720.0000	48.38	30.04	-45.58	32.84	74.00	41.16	130	332	Horizontal		
2	4880.0000	50.42	32.54	-45.53	37.43	74.00	36.57	168	138	Horizontal		
3	9760.0000	40.54	38.26	-39.46	39.34	74.00	34.66	145	6	Horizontal		



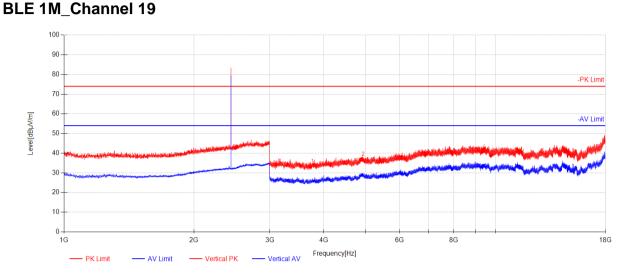
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Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3720.0000	48.58	30.04	-45.58	33.04	74.00	40.96	123	356	Vertical	
2	4880.0000	49.79	32.54	-45.53	36.80	74.00	37.20	165	52	Vertical	
3	9760.0000	39.94	38.26	-39.46	38.74	74.00	35.26	174	0	Vertical	



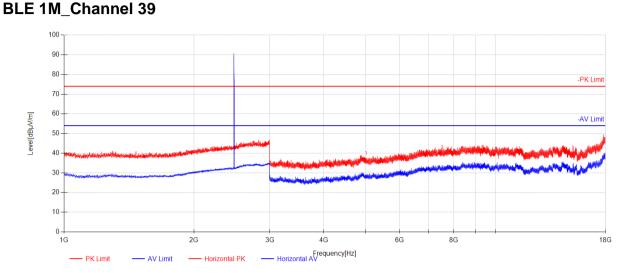
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Data	Data List											
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1	4960.0000	49.80	32.77	-45.60	36.97	74.00	37.03	163	26	Horizontal		
2	7440.0000	46.80	36.47	-43.30	39.97	74.00	34.03	147	334	Horizontal		
3	9920.0000	40.31	38.38	-39.31	39.38	74.00	34.62	219	357	Horizontal		



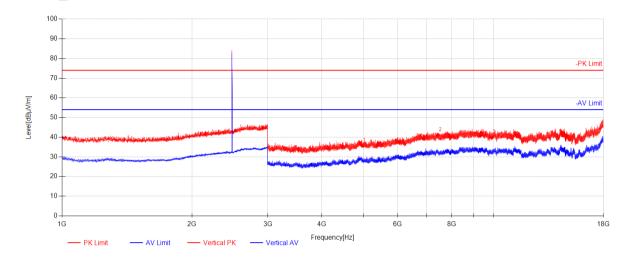
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960.0000	48.57	32.77	-45.60	35.74	74.00	38.26	184	194	Vertical		
2	7440.0000	47.91	36.47	-43.30	41.08	74.00	32.92	263	250	Vertical		
3	9920.0000	40.79	38.38	-39.31	39.86	74.00	34.14	147	108	Vertical		



BLE 1M_Channel 39

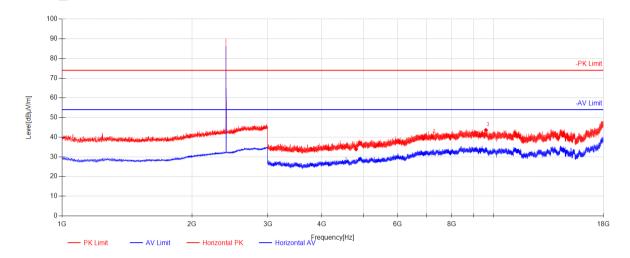
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.06	32.33	-45.54	33.85	74.00	40.15	163	80	Horizontal
2	7206.0000	47.02	36.60	-43.44	40.18	74.00	33.82	147	138	Horizontal
3	9608.0000	44.80	38.43	-39.65	43.58	74.00	30.42	263	25	Horizontal



BLE 2M_Channel 00

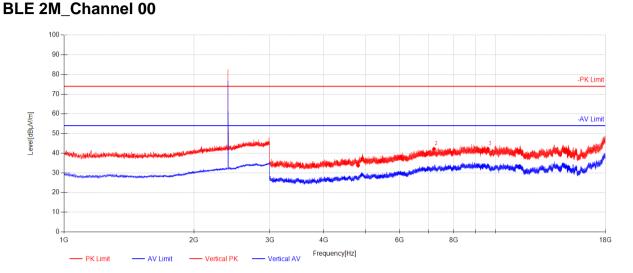
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	46.92	32.33	-45.54	33.71	74.00	40.29	214	0	Vertical
2	7206.0000	49.01	36.60	-43.44	42.17	74.00	31.83	263	279	Vertical
3	9608.0000	43.32	38.43	-39.65	42.10	74.00	31.90	147	53	Vertical



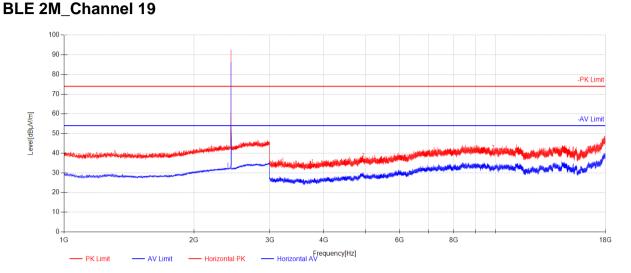
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3720.0000	48.49	30.04	-45.58	32.95	74.00	41.05	154	55	Horizontal
2	4880.0000	49.05	32.54	-45.53	36.06	74.00	37.94	163	305	Horizontal
3	9760.0000	41.28	38.26	-39.46	40.08	74.00	33.92	144	55	Horizontal



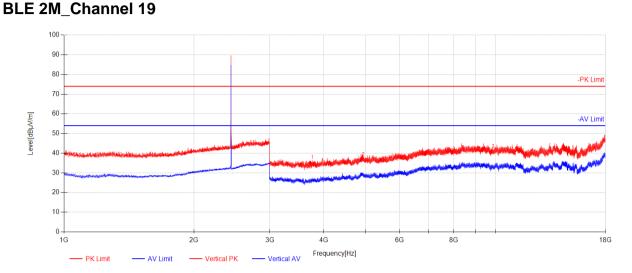
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3720.0000	50.64	30.04	-45.58	35.10	74.00	38.90	211	194	Vertical
2	4880.0000	49.45	32.54	-45.53	36.46	74.00	37.54	263	0	Vertical
3	9760.0000	41.78	38.26	-39.46	40.58	74.00	33.42	195	1	Vertical



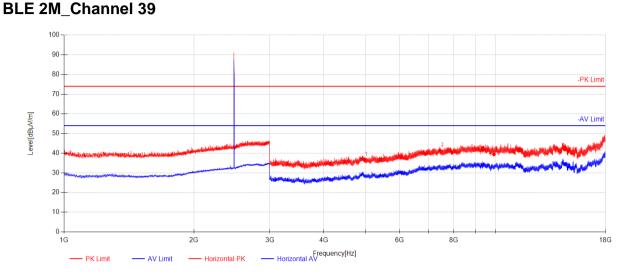
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Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.55	32.77	-45.60	36.72	74.00	37.28	231	83	Horizontal
2	7440.0000	48.23	36.47	-43.30	41.40	74.00	32.60	165	193	Horizontal
3	9920.0000	40.31	38.38	-39.31	39.38	74.00	34.62	147	250	Horizontal



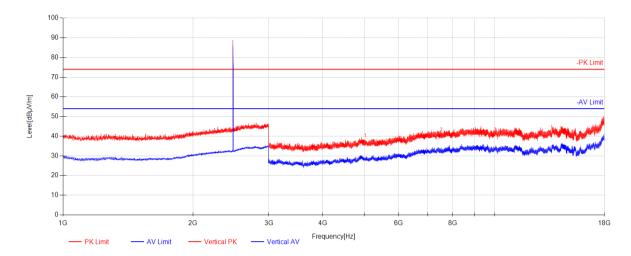
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Data	Data List													
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	4960.0000	50.21	32.77	-45.60	37.38	74.00	36.62	155	6	Vertical				
2	7440.0000	47.18	36.47	-43.30	40.35	74.00	33.65	214	0	Vertical				
3	9920.0000	41.36	38.38	-39.31	40.43	74.00	33.57	196	249	Vertical				

Remark:

BLE 2M_Channel 39

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(dBµV/m) – Level(dBµV/m)

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



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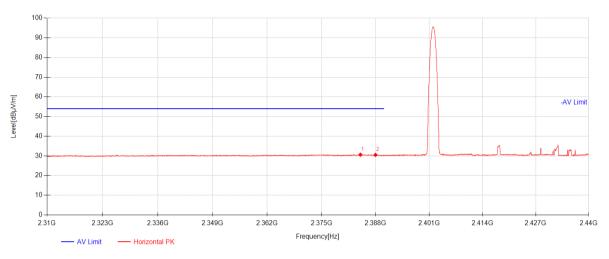
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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Data	List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.36	26.75	27.43	-23.57	30.61	54.00	23.39	212	292	Horizontal
2	2388	26.64	27.43	-23.57	30.50	54.00	23.50	212	292	Horizontal



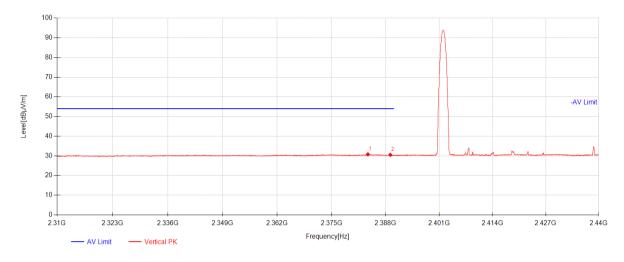
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2383.7533	26.93	27.43	-23.57	30.79	54.00	23.21	174	98	Vertical			
2	2389.17	26.67	27.43	-23.57	30.53	54.00	23.47	174	98	Vertical			



BLE 1M_Channel 00

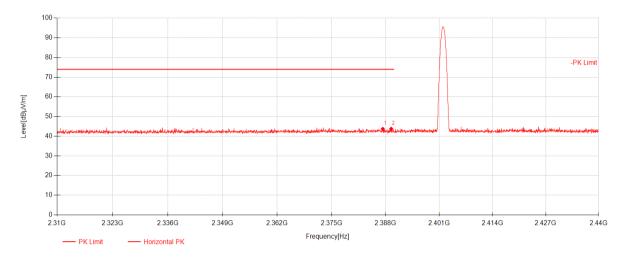
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2387.35	39.83	27.43	-23.57	43.69	74.00	30.31	213	292	Horizontal			
2	2389.3867	39.89	27.43	-23.57	43.75	74.00	30.25	213	292	Horizontal			



BLE 1M_Channel 00

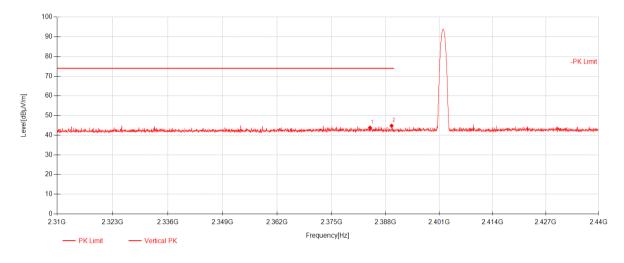
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2384.2733	39.95	27.43	-23.57	43.81	74.00	30.19	174	98	Vertical			
2	2389.4733	40.93	27.43	-23.57	44.79	74.00	29.21	174	98	Vertical			



BLE 1M_Channel 00

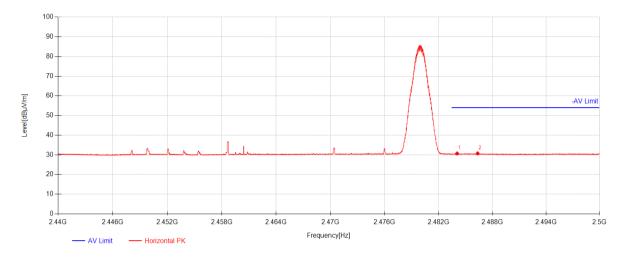
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2484.0775	26.55	27.72	-23.54	30.72	54.00	23.28	165	170	Horizontal			
2	2486.365	26.58	27.73	-23.54	30.76	54.00	23.24	165	170	Horizontal			



BLE 1M_Channel 39

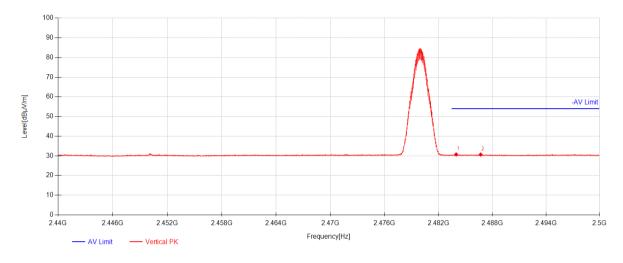
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.9725	26.56	27.72	-23.54	30.73	54.00	23.27	188	79	Vertical			
2	2486.7025	26.48	27.73	-23.54	30.66	54.00	23.34	188	79	Vertical			



BLE 1M_Channel 39

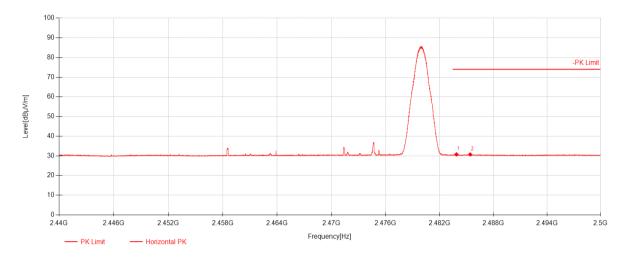
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.89	26.59	27.72	-23.54	30.76	74.00	43.24	165	170	Horizontal		
2	2485.42	26.56	27.72	-23.54	30.74	74.00	43.26	165	170	Horizontal		



BLE 1M_Channel 39

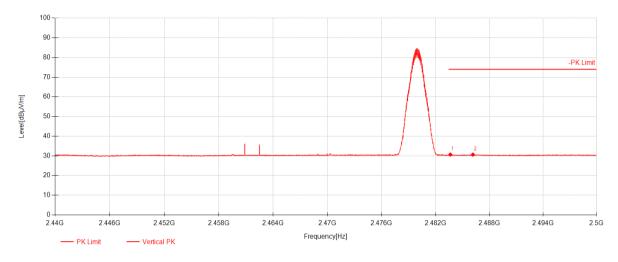
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.65	26.50	27.72	-23.54	30.67	74.00	43.33	188	79	Vertical		
2	2486.17	26.48	27.72	-23.54	30.66	74.00	43.34	188	79	Vertical		





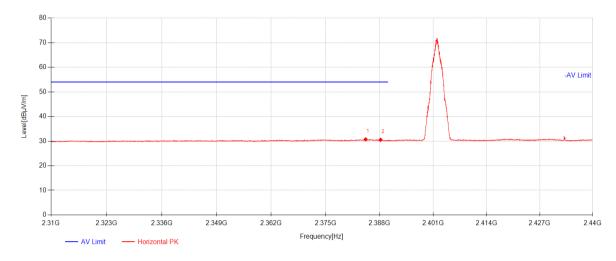
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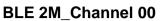
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2384.6633	26.85	27.43	-23.57	30.71	54.00	23.29	214	225	Horizontal		
2	2388.26	26.67	27.43	-23.57	30.53	54.00	23.47	214	225	Horizontal		





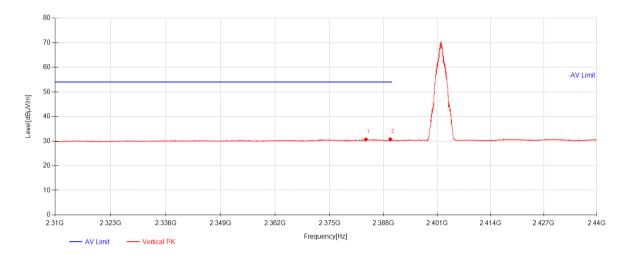
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2383.7533	26.82	27.43	-23.57	30.68	54.00	23.32	122	68	Vertical		
2	2389.6467	26.90	27.43	-23.57	30.76	54.00	23.24	122	68	Vertical		

BLE 2M_Channel 00

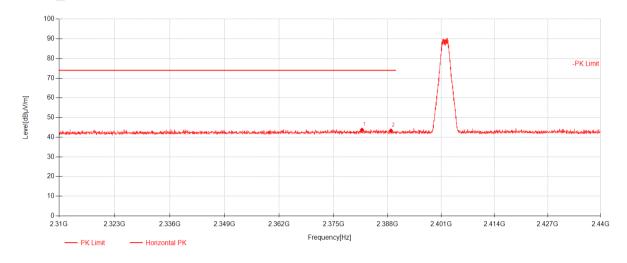
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2381.8467	39.90	27.43	-23.57	43.76	74.00	30.24	214	225	Horizontal		
2	2388.8233	39.48	27.43	-23.57	43.34	74.00	30.66	214	225	Horizontal		



BLE 2M_Channel 00

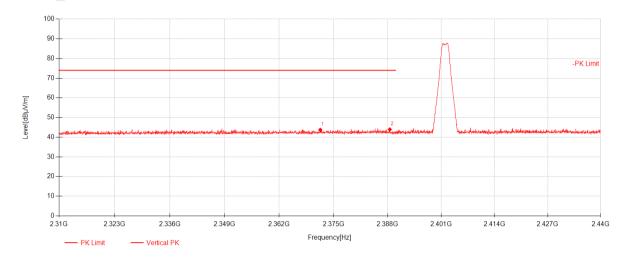
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2371.8367	39.90	27.43	-23.57	43.75	74.00	30.25	122	68	Vertical		
2	2388.5633	40.07	27.43	-23.57	43.93	74.00	30.07	122	68	Vertical		



BLE 2M_Channel 00

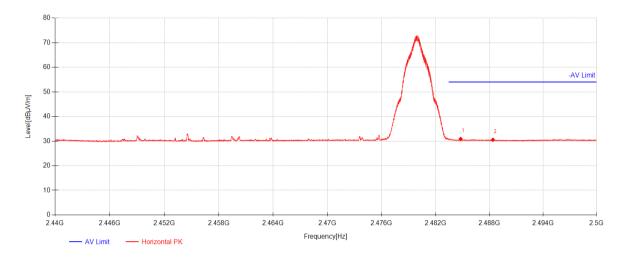
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.805	26.71	27.72	-23.54	30.89	54.00	23.11	163	178	Horizontal		
2	2488.405	26.36	27.73	-23.54	30.55	54.00	23.45	163	178	Horizontal		



BLE 2M_Channel 39

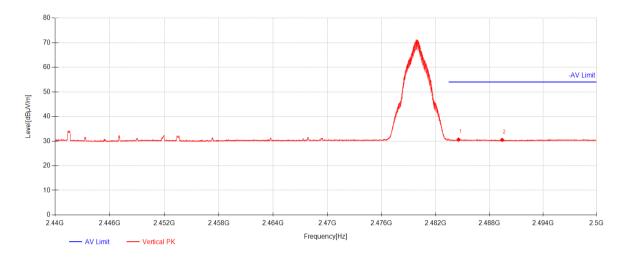
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.5725	26.46	27.72	-23.54	30.63	54.00	23.37	214	35	Vertical		
2	2489.4325	26.33	27.74	-23.54	30.52	54.00	23.48	214	35	Vertical		



BLE 2M_Channel 39

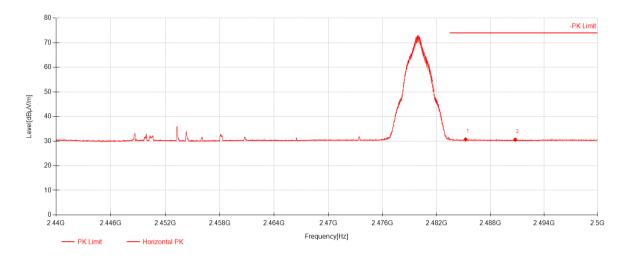
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2485.2475	26.52	27.72	-23.54	30.70	74.00	43.30	163	178	Horizontal		
2	2490.7825	26.41	27.74	-23.54	30.61	74.00	43.39	163	178	Horizontal		



BLE 2M_Channel 39

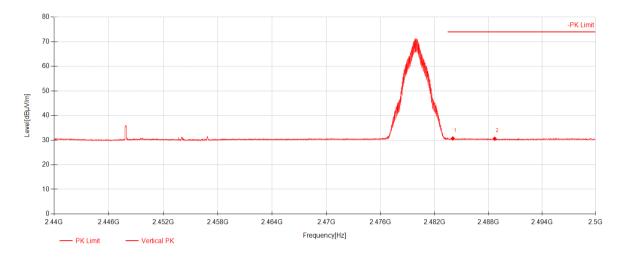
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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.0475	26.50	27.72	-23.54	30.67	74.00	43.33	214	35	Vertical		
2	2488.72	26.38	27.73	-23.54	30.57	74.00	43.43	214	35	Vertical		

Remark:

BLE 2M_Channel 39

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($dB\mu V/m$)

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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