Report No.: Z Page: 1

ZEWM2310001500RG04 1 of 75

TEST REPORT

Test Result :	PASS *
Date of Issue:	2023/10/24
Date of Test:	2023/04/21 to 2023/05/18 (for original report ZEWM2303000343RG04) 2023/10/16 to 2023/10/17 (for new report ZEWM2310001500RG04)
Date of Receipt:	2023/04/21 (for original report ZEWM2303000343RG04) 2023/10/13 (for new report ZEWM2310001500RG04)
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2AUCY-V2322
Trade Mark:	vivo
Model No.:	V2322
EUT Description:	Mobile Phone
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan,Guangdong,China
Applicant:	vivo Mobile Communication Co., Ltd.
Application No.:	ZEWM2310001500RG

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

Authorized Signature:

Keny. Ku

Keny Xu Laboratory Manager



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Report No.: Page:

ZEWM2310001500RG04 2 of 75

Version 1

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/24		Original

Prepared By	Jall Huang (Jack Huang) / Test Engineer
Checked By	Flora Wang (Flora Wang) / Reviewer



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Report No.: Page: ZEWM2310001500RG04 3 of 75

2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab*				
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	В				
Duty cycle		ANSI C63.10-2020 Section 11.6	Clause 4.3	For Report Purpose	A				
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section11.9.1.2	Clause 4.4	PASS	А				
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	A				
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS	A				
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS	А				
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS	А				
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS	В				
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS	В				



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Report No.: Z Page: 4

ZEWM2310001500RG04 4 of 75

Remark for report ZEWM2310001500RG04 issue on 2023/10/24:

This test report (Report No.: ZEWM2310001500RG04 issue on 2023/10/24) is based on the original test

report (Report No.: ZEWM2303000343RG04 issue on 2023/05/19) .

According to the declaration from the applicant, the models in this report and models in original report were identical, only difference as below:

- 1. Remove NFC by hardware and software.
- 2. Remove macro camera.
- 3. Back cover change from glass to plastic.
- 4. Add a new charger.
- 5. Software version change to PD2280UF_EX_A_13.0.9.3.W30.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the AC Power Line Conducted Emission were tested, Radiated Spurious emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number ZEWM2303000343RG04 issue on 2023/05/19 and other test data in this report are based on the previous report with report number ZEWM2303000343RG04 issue on 2023/05/19.

Summary of the Spot check:

Radiated spurious emission and Restricted bands around fundamental frequency(Radiated Emission) test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail sport check test result can be found in the variant model report.

Test Item		Original FCC ID: 2AUCY- V2247 (dBµV/m)	Variant FCC ID: 2AUCY- V2322 (dBµV/m)	Limit	*Difference (%)<=25%	Limit margin>50%
Radiated Spurious emissions	Peak	53.05	52.09	74	10%	-
Restricted bands around fundamental	Peak	55.25	57.52	74	30%	<68
frequency(Radiated Emission)	Average	35.38	39.6	54	63%	<48

*Difference: converted the data into linear unit to calculate difference.



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Report No.: Page:

ZEWM2310001500RG04 5 of 75

Contents

1	Versio	n	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	7
	3.4	General Description of EUT	8
	3.5	Test Environment	10
	3.6	Description of Support Units	10
4	Test re	esults and Measurement Data	11
	4.1	Antenna Requirement	11
	4.2	AC Power Line Conducted Emissions	12
	4.3	Duty Cycle	16
	4.4	Conducted Output Power	17
	4.5	DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	18
	4.6	Power Spectral Density	19
	4.7	Band-edge for RF Conducted Emissions	20
	4.8	RF Conducted Spurious Emissions	21
	4.9	Radiated Spurious Emissions	22
	4.10	Restricted bands around fundamental frequency	25
5	Measu	rement Uncertainty (95% confidence levels, k=2)	27
6	Equipr	ment List	28
7	Photog	graphs - Setup Photos	32



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Report No.: Page: ZEWM2310001500RG04 6 of 75

3 General Information

3.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

3.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Jerry Zeng
Lab B:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Jacky Xue



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Report No.: Page: ZEWM2310001500RG04 7 of 75

3.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

• FCC – Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754

Lab B:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC – Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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Report No.: Page:

ZEWM2310001500RG04 8 of 75

3.4 General Description of EUT

EUT Description:	Mobile Phone			
Model No.:	V2322			
Trade Mark:	vivo			
Hardware Version:	MP_0.1			
Software Version:	PD2280UF_EX_A_13.0.9	.3.W30		
Power Supply:	Lithium Battery (3.89V)			
IMEI:	RF Conducted	IMEI1:863548060194275 IMEI2:863548060194267		
	RSE & AC power line	860849079999453		
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 V5.0			
Modulation Type:	GFSK	GFSK		
Number of Channel:	40			
Datas Turast	Provided by client			
Rates Type*:	1M PHY			
Antenna Type:	PIFA Antenna			
	-3.3dBi(Ant22)			
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	2000MHz ~ 3000MHz(1.1dB)			
Remark:				

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Report No.: Page:

ZEWM2310001500RG04 9 of 75

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

Remark:

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

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



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Report No.: Page: ZEWM2310001500RG04 10 of 75

3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature(℃) Voltage(V			
NTNV	22~25	3.89		
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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Report No.: Page:

ZEWM2310001500RG04 11 of 75

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 -3.3dBi.* *Note:

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

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Report No.: Page: ZEWM2310001500RG04 12 of 75

4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Sectio	n 15.207			
Test Method:	ANSI C63.10-2020 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30kHz				
Limit:	Limit (dBuV)				
	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 connected Impedance Stabilizated impedance. The power connected to a second plane in the same ware multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plated on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground reference plane. The unit under test and be mounted on top of the the closest points of the and associated equip 5) In order to find the mark and all of the interface 	sturbance voltage test was contend to AC power source throws ion Network) which provides are cables of all other units of the LISN 2, which was bonded by as the LISN 1 for the unit be strip was used to connect me the rating of the LISN was not as placed upon a non-metallice ne. And for floor-standing arrant tal ground reference plane. ed with a vertical ground refer m from the vertical ground reference LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All op- ment was at least 0.8 m from aximum emission, the relative ce cables must be changed at n conducted measurement.	gh 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 rear of ference plane. The horizontal ground m the boundary of the plane for LISNs is distance was between ther units of the EUT the LISN 2. e positions of equipment		

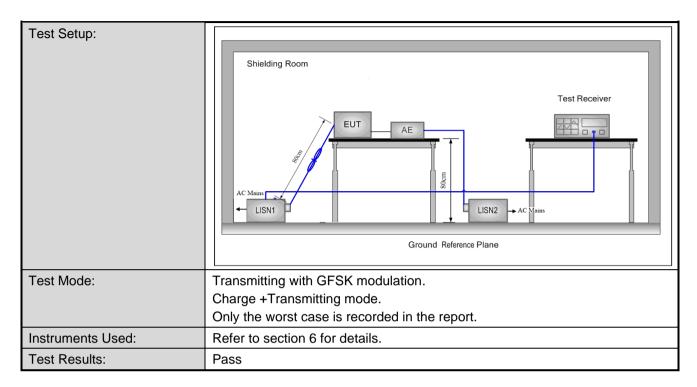


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Report No.: Page:

ZEWM2310001500RG04 13 of 75





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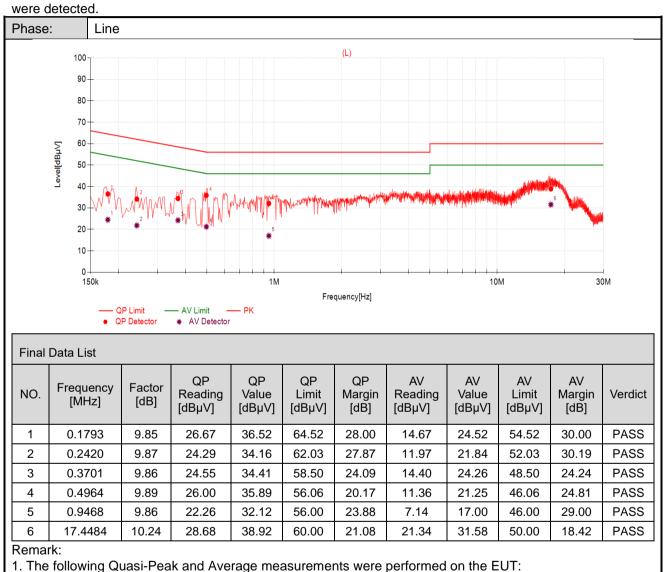
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Report No.: Page: ZEWM2310001500RG04 14 of 75

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



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

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

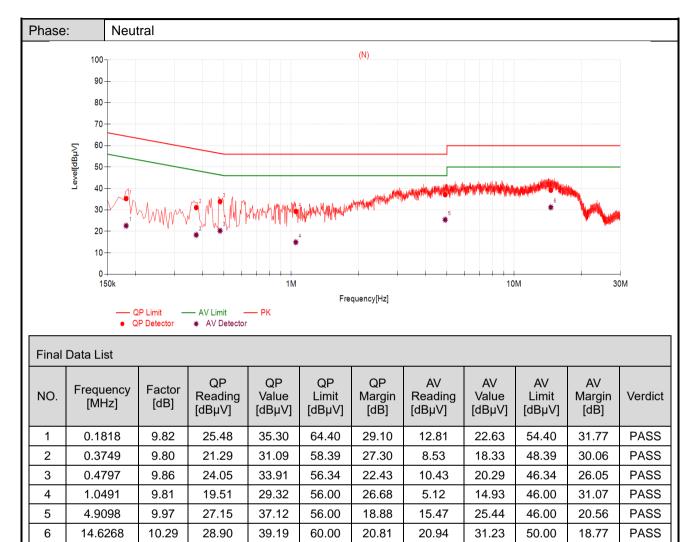


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Report No.: Page: ZEWM2310001500RG04 15 of 75



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 μ V] – Value[dB μ V]



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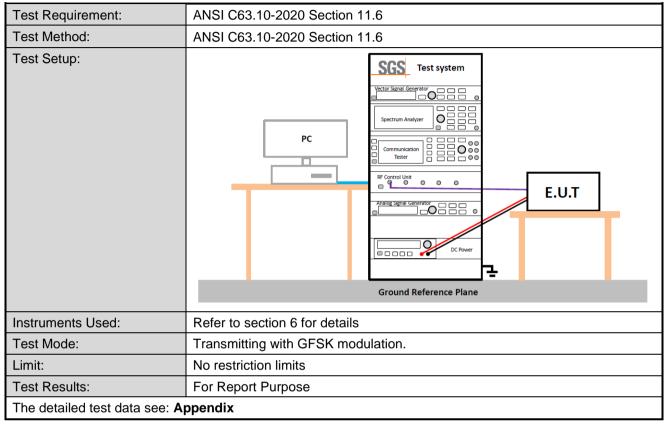
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Report No.: Page:

ZEWM2310001500RG04 16 of 75

4.3 Duty Cycle





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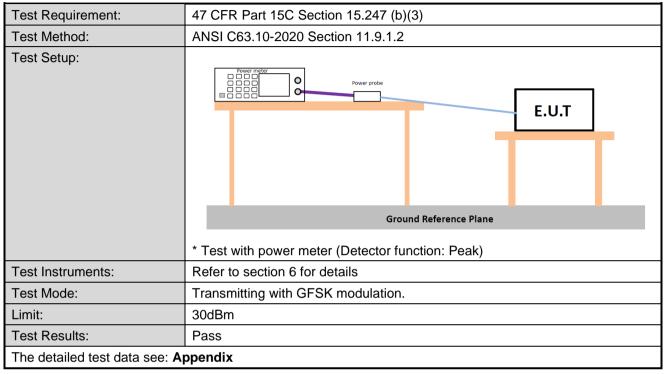
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ZEWM2310001500RG04 17 of 75

4.4 Conducted Output Power





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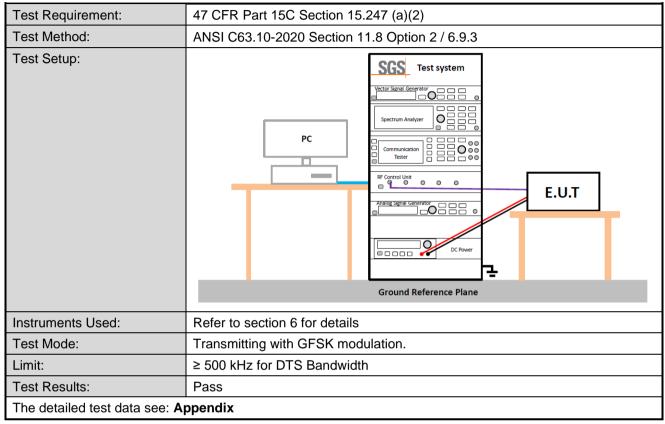
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Report No.: ZEWM2310001500RG04 Page: 18 of 75

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





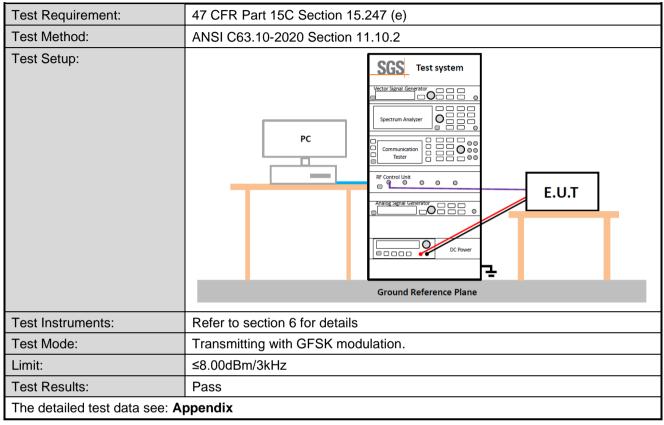
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4.6 Power Spectral Density





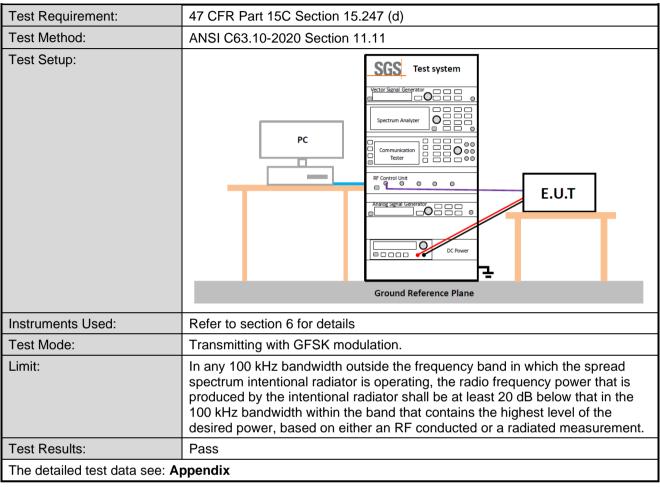
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Report No.: Page: ZEWM2310001500RG04 20 of 75

4.7 Band-edge for RF Conducted Emissions





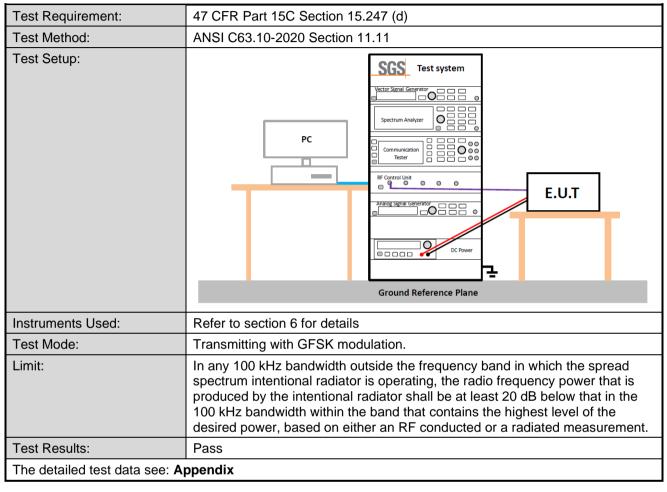
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4.8 **RF Conducted Spurious Emissions**





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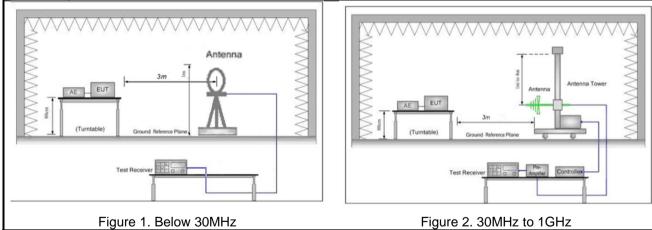
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Report No.: Page: ZEWM2310001500RG04 22 of 75

4.9 Radiated Spurious Emissions

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}							
Above 1GHz 500 54.0 Average 3							
Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency							
emissions is 20dB above the maximum permitted average emission limit							
applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							

Test Setup:





Report No.: Page:

ZEWM2310001500RG04 23 of 75

	Image: Antenna Tower
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. l. At a measurement distance of 1 met
Test Configuration:	 Weasurements below 30MHz RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak



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Report No.: Page:

ZEWM2310001500RG04 24 of 75

	 Trace mode = max hold
	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
	 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 all channels, but 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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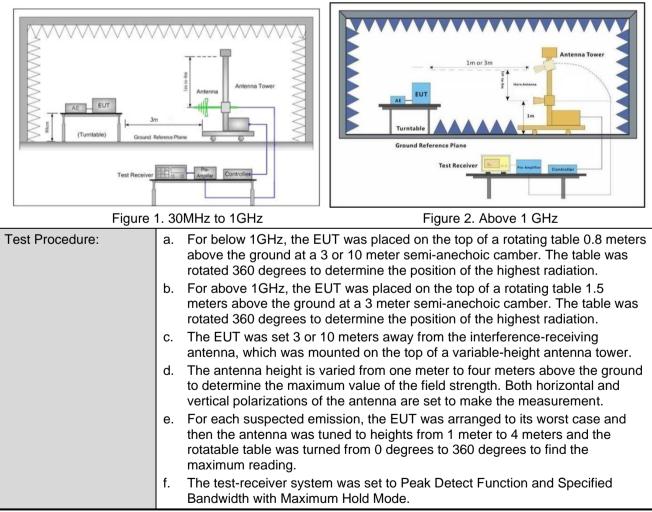
Report No.: Z Page: 2

ZEWM2310001500RG04 25 of 75

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	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:





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Report No.: Page:

ZEWM2310001500RG04 26 of 75

Test Configuration:	 g. Place a marker at the end of the restricted band closest to the transmit 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 Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1 MHz VBW ≥ 1 MHz WBW ≥ 1 MHz WBW ≥ 1 MHz WBW = 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
Exploratory Test Mode:	maximum power control level for the tested mode of operation. 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
<u> </u>	



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Report No.: ZEWM23 Page: 27 of 75

ZEWM2310001500RG04 27 of 75

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

	Lab A					
No.	Item	Measurement Uncertainty				
1	Radio Frequency	± 9.84Hz				
2	Duty cycle	± 0.185%				
3	Occupied Bandwidth	± 0.20%				
4	RF conducted power	± 0.42dB				
5	RF power density	± 1.97dB				
6	Conducted Spurious emissions	± 0.42dB				

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.

Lab B				
No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
		± 4.9dB (30MHz to 1GHz)		
2	Radiated Emission	± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		
Remark:				

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Report No.: Page: ZEWM2310001500RG04 28 of 75

6 Equipment List

Lab A								
Test Equipment	RF Test System (for report ZEWM2303000343RG04) Test Equipment Manufacturer Model No. Inventory No. Cal. date (yyyy/mm/dd) Cal. date (yyyy/mm/dd)							
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2022/11/18	2023/11/17			
Signal Generator	Keysight	N5181A	SZ-WRG-M-005	2022/11/18	2023/11/17			
DC power supply	Tonscend	TS0806- 4ADC	SZ-WRG-A-007	NCR	NCR			
RF Control Unit	Tonscend	JS0806-2	SZ-WRG-M-008	2022/11/18	2023/11/17			
Radio Communication Tester	Rohde & Schwarz	CMW270	SZ-WRG-M-009	2023/02/16	2024/02/15			
Radio Communication Tester	Rohde & Schwarz	CMW-Z800A	SZ-WRG-M-010	NCR	NCR			
Signal Generator	Rohde & Schwarz	SMM100A	SZ-WRG-M-011	2023/02/22	2024/02/21			
Test Software	Tonscend	JS1120 V3.2.22	N/A	NCR	NCR			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2022/07/06	2023/07/05			
Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-012	2023/02/16	2024/02/15			

	Lab B CE Test System (for report ZEWM2303000343RG04)						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR		
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29		



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Report No.: Page:

ZEWM2310001500RG04 29 of 75

Lab B RSE Test System (for report ZEWM2303000343RG04)						
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	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2022/05/24	2023/05/23	
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2022/05/24	2023/05/23	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17	
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2023/05/25	



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Report No.: Page: ZEWM2310001500RG04 30 of 75

Lab B CE Test System (for report ZEWM2310001500RG04)						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29	



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Report No.: Page: ZEWM2310001500RG04 31 of 75

Lab B RSE Test System (for report ZEWM2310001500RG04)									
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	XAW03-35-01	2021/09/09	, , , , , , , , , , , , , , , , , , , ,				
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15				
Spectrum Analyzer	ROHDE&SCH WARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14				
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29				
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27				
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27				
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22				
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR				
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR				
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR NCR					
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR NCR					
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14				
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29				
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29				
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03				
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15				
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR				
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25				



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Report No.: ZE Page: 32

ZEWM2310001500RG04 32 of 75

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: Page: ZEWM2310001500RG04 33 of 75

Appendix



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Report No.: ZEWN Page: 34 of

ZEWM2310001500RG04 34 of 75

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant22	2402	0.68	2401.66	2402.34	≥0.5	PASS
		2440	0.68	2439.66	2440.34	≥0.5	PASS
		2480	0.68	2479.65	2480.34	≥0.5	PASS



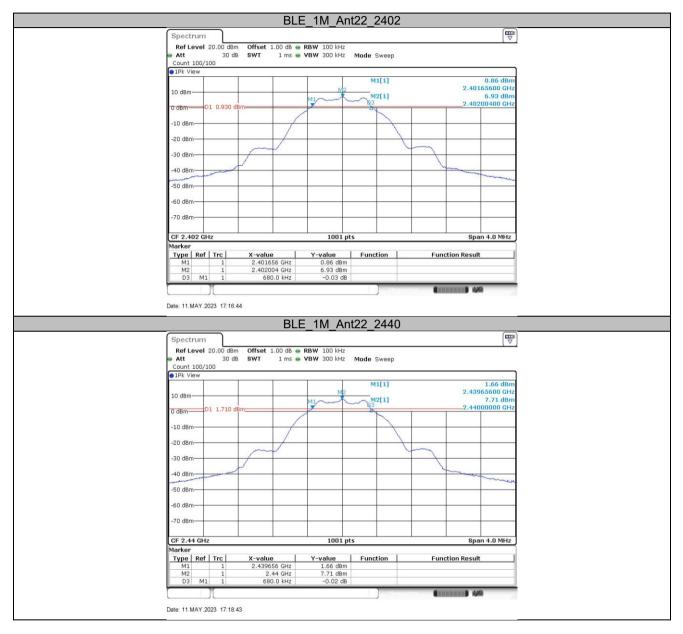
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Report No.: Page: ZEWM2310001500RG04 35 of 75

Test Graphs





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Report No.: Page: ZEWM2310001500RG04 36 of 75





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Report No.: Page: ZEWM2310001500RG04 37 of 75

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE 1M	Ant22	2402	1.035	2401.4885	2402.5235	For Doport
		2440	1.035	2439.4885	2440.5235	For Report Purpose
		2480	1.031	2479.4885	2480.5195	Fulpose



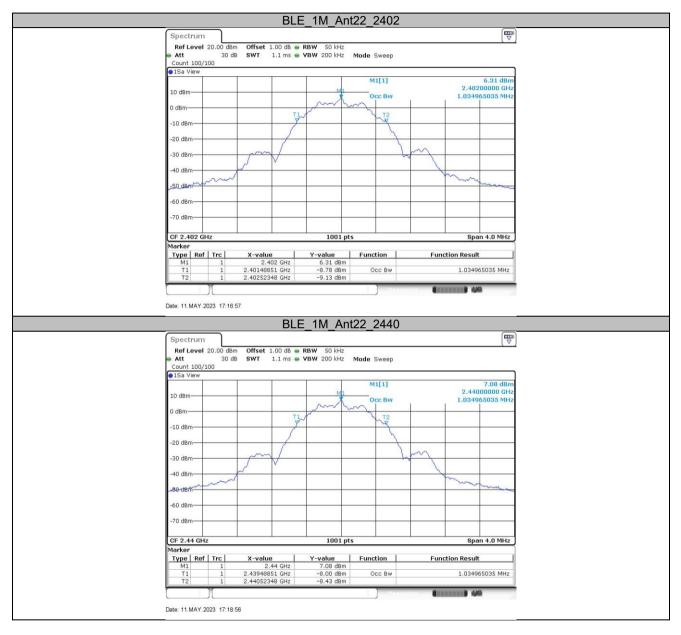
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Report No.: Page: ZEWM2310001500RG04 38 of 75

Test Graphs



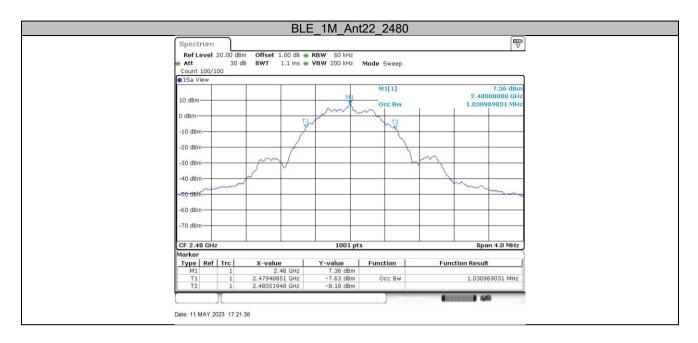


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Report No.: Page: ZEWM2310001500RG04 39 of 75





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Report No.: Page: ZEWM2310001500RG04 40 of 75

Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	7.33	≤30	PASS
BLE_1M	Ant22	2440	8.09	≤30	PASS
		2480	8.37	≤30	PASS



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Report No.: Page:

ZEWM2310001500RG04 41 of 75

Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-7.63	≤8.00	PASS
BLE_1M	Ant22	2440	-6.85	≤8.00	PASS
		2480	-6.56	≤8.00	PASS



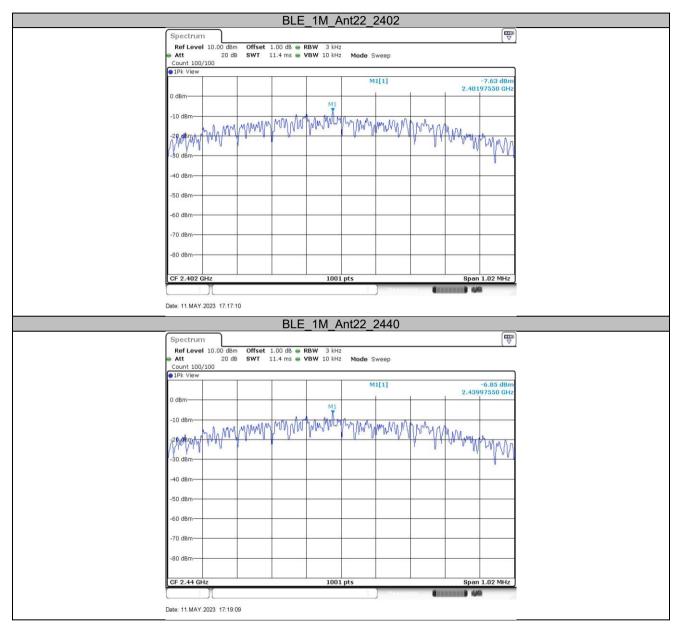
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Report No.: Page: ZEWM2310001500RG04 42 of 75

Test Graphs





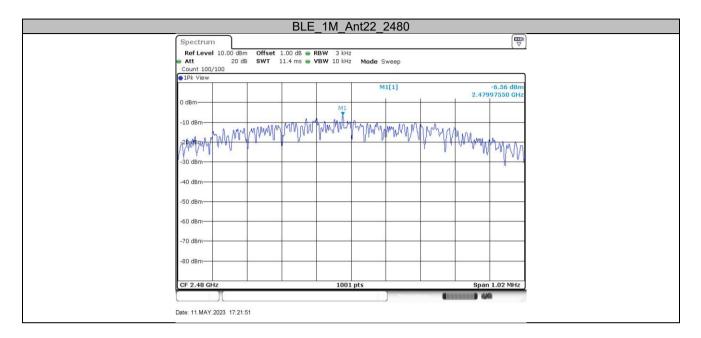
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Report No.: Page:

ZEWM2310001500RG04 43 of 75





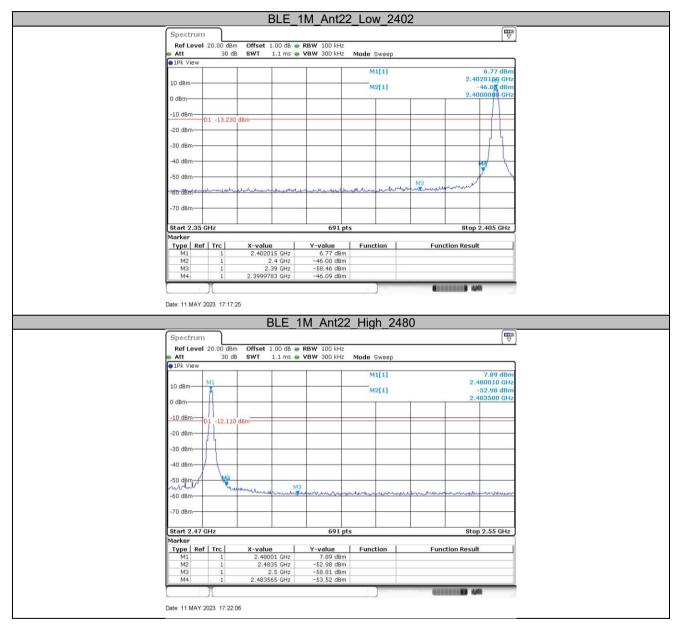
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Report No.: Page: ZEWM2310001500RG04 44 of 75

Band edge measurements Test Graphs

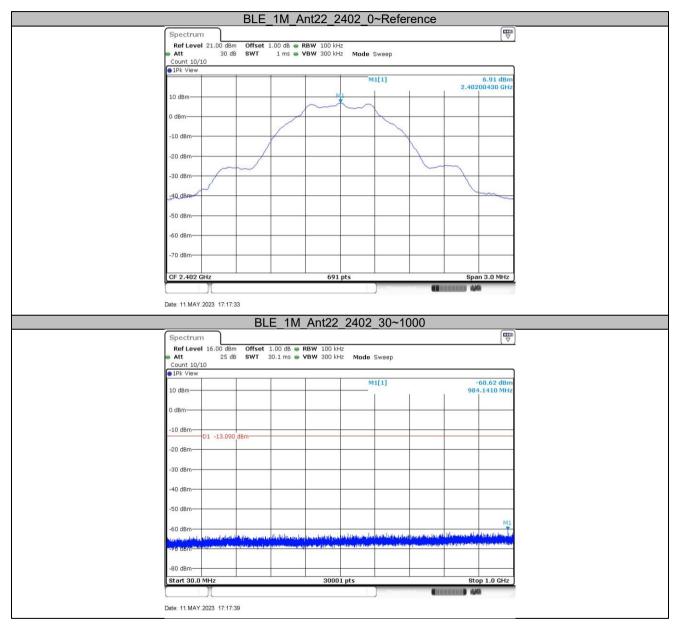




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Report No.: Page: ZEWM2310001500RG04 45 of 75

Conducted Spurious Emission Test Graphs

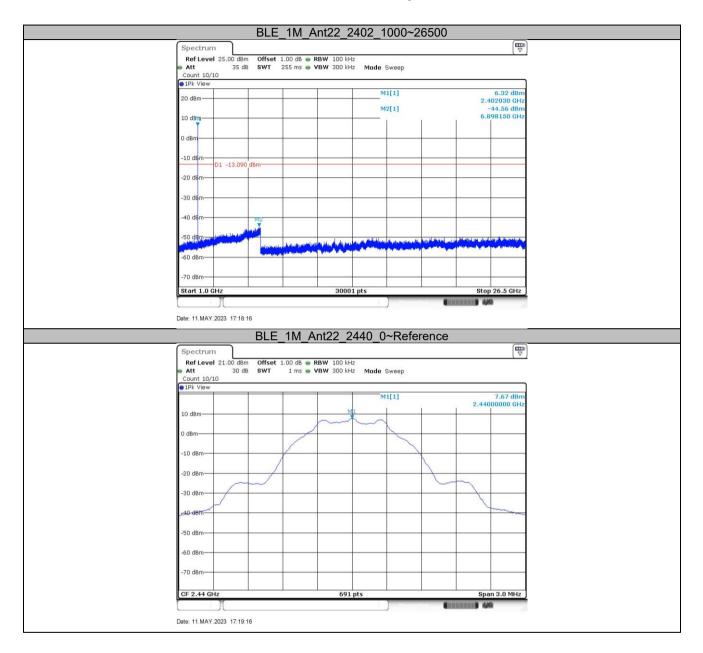




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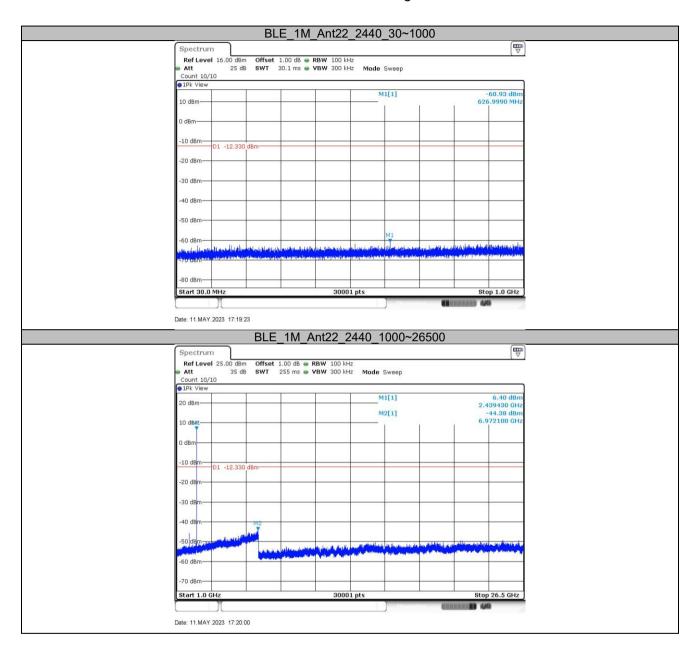


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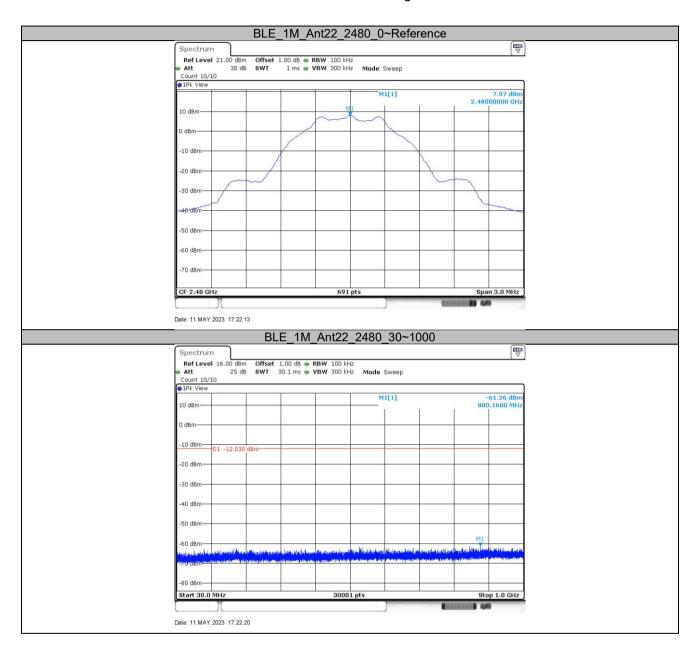


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Report No.: Page: ZEWM2310001500RG04 48 of 75





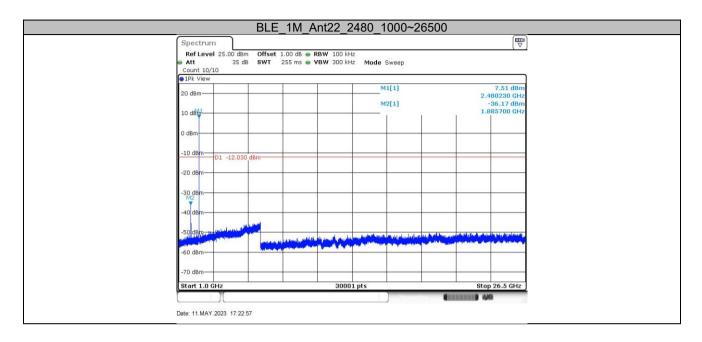
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant22	2402	0.39	0.62	62.90	2.01

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	0.62	62.90	2.52780	2.7KHz

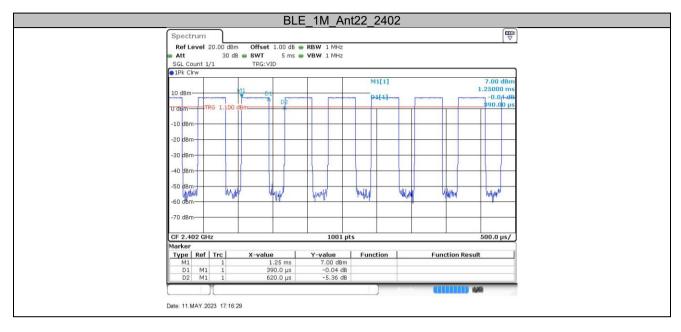


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Report No.: Page: ZEWM2310001500RG04 51 of 75

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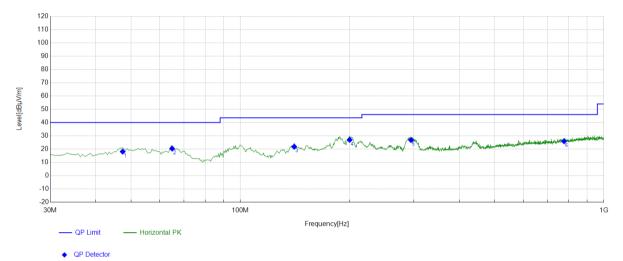
Report No.: ZE Page: 52

ZEWM2310001500RG04 52 of 75

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE_1M CH39



Final	Data List									
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.4687	14.07	-27.77	31.83	18.13	40.00	21.87	151	120	Horizontal
2	64.9375	12.10	-27.66	35.94	20.38	40.00	19.62	135	153	Horizontal
3	140.6353	7.84	-26.45	40.4	21.79	43.50	21.71	262	49	Horizontal
4	199.8349	11.40	-26.32	41.88	26.96	43.50	16.54	243	249	Horizontal
5	294.9425	13.40	-25.77	39.18	26.81	46.00	19.19	259	46	Horizontal
6	777.2736	20.53	-23.80	29.17	25.90	46.00	20.10	354	165	Horizontal

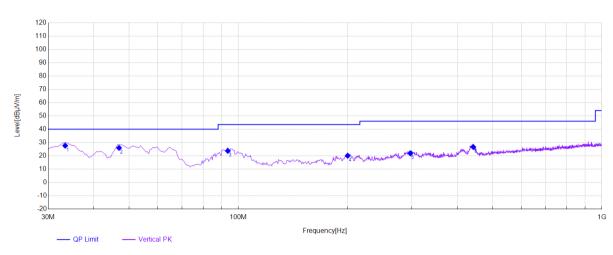


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QP Detector

Final I	Final Data List												
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	33.3967	11.30	-28.00	44.33	27.63	40.00	12.37	189	5	Vertical			
2	46.9835	14.30	-27.78	39.45	25.97	40.00	14.03	136	20	Vertical			
3	93.5668	10.81	-27.44	40.35	23.72	43.50	19.78	253	86	Vertical			
4	199.8349	11.40	-26.32	34.98	20.06	43.50	23.44	363	35	Vertical			
5	297.3687	13.31	-25.83	34.37	21.85	46.00	24.15	245	317	Vertical			
6	442.9415	16.14	-25.24	35.74	26.64	46.00	19.36	155	242	Vertical			

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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

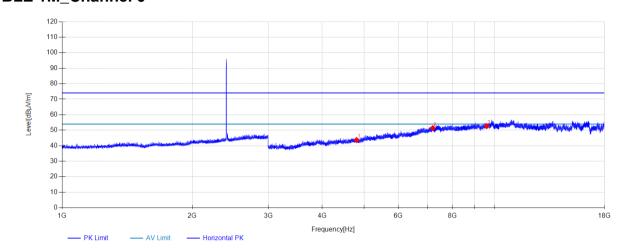


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Report No.: Page: ZEWM2310001500RG04 54 of 75

Transmitter emission Above 1GHz BLE 1M Channel 0



Final	Final 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	55.83	30.78	-42.95	43.66	74.00	30.34	242	306	Horizontal		
2	7206	53.55	36.56	-38.71	51.40	74.00	22.60	187	38	Horizontal		
3	9608	50.43	37.85	-35.70	52.58	74.00	21.42	214	273	Horizontal		



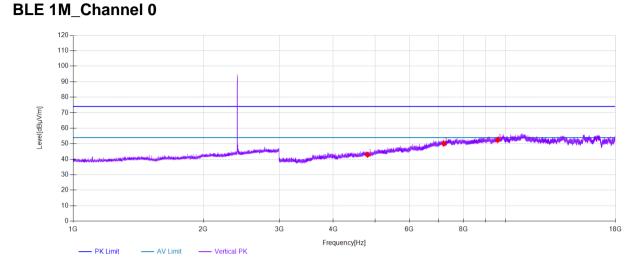
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Report No.: Page:

ZEWM2310001500RG04 55 of 75



Final	Final 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	54.95	30.78	-42.95	42.78	74.00	31.22	370	209	Vertical		
2	7206	52.08	36.56	-38.71	49.93	74.00	24.07	241	284	Vertical		
3	9608	50.12	37.85	-35.70	52.27	74.00	21.73	333	209	Vertical		

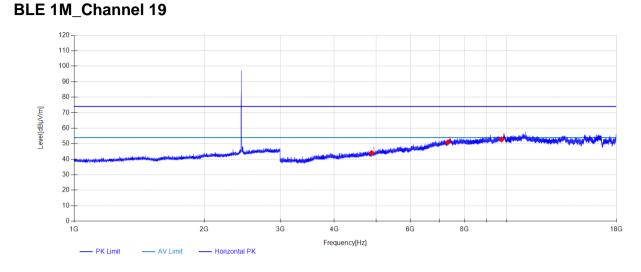


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Report No.: Page: ZEWM2310001500RG04 56 of 75



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4880	56.19	30.78	-42.89	44.08	74.00	29.92	125	135	Horizontal		
2	7320	53.10	36.44	-38.76	50.78	74.00	23.22	196	231	Horizontal		
3	9760	50.40	38.34	-35.97	52.77	74.00	21.23	222	82	Horizontal		



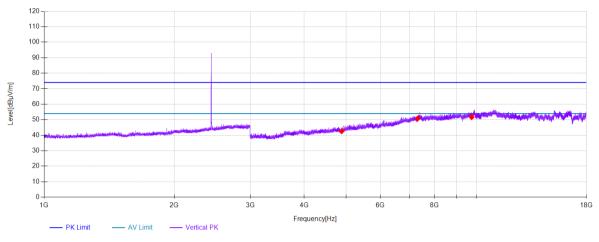
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Report No.: Page: ZEWM2310001500RG04 57 of 75

BLE 1M_Channel 19



Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4880	54.67	30.78	-42.89	42.56	74.00	31.44	352	222	Vertical		
2	7320	53.05	36.44	-38.76	50.73	74.00	23.27	261	222	Vertical		
3	9760	49.28	38.34	-35.97	51.65	74.00	22.35	228	348	Vertical		

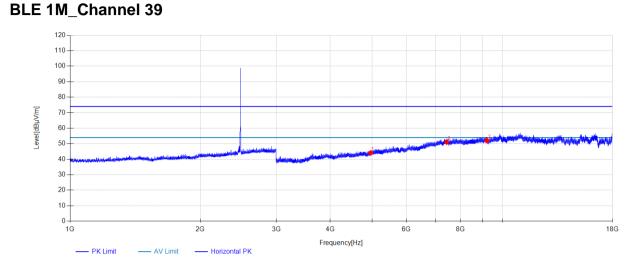


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Report No.: Page: ZEWM2310001500RG04 58 of 75



Final	Final 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	55.77	31.04	-42.78	44.03	74.00	29.97	144	39	Horizontal		
2	7440	52.52	36.78	-38.28	51.02	74.00	22.98	204	16	Horizontal		
3	9220	50.59	37.50	-36.04	52.05	74.00	21.95	178	16	Horizontal		

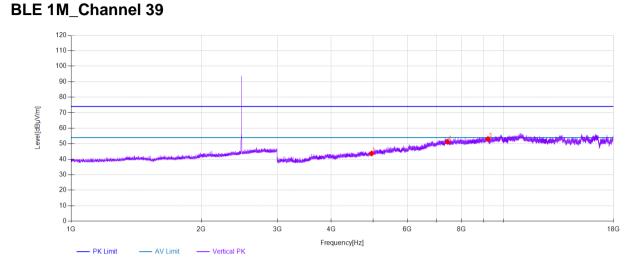
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Report No.: Page: ZEWM2310001500RG04 59 of 75



Final	Final 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	55.43	31.04	-42.78	43.69	74.00	30.31	278	188	Vertical		
2	7440	52.66	36.78	-38.28	51.16	74.00	22.84	367	0	Vertical		
3	9220	51.59	37.50	-36.04	53.05	74.00	20.95	145	284	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBµV/m) – Level(dBµV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS".



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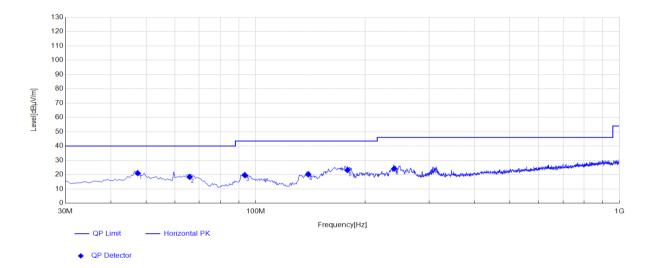
Report No.: Page:

ZEWM2310001500RG04 60 of 75

Test on the worst case:

Radiated emission below 1GHz

Worst case Mode: BLE 1M Channel 39



Final Da	ata List							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	47.4687	14.07	-27.77	34.65	20.95	40.00	19.05	Horizontal
2	65.908	11.92	-27.60	34.05	18.37	40.00	21.63	Horizontal
3	93.5668	10.81	-27.44	36.14	19.51	43.50	23.99	Horizontal
4	139.6648	7.77	-26.44	38.8	20.13	43.50	23.37	Horizontal
5	178.9695	9.01	-26.46	40.59	23.14	43.50	20.36	Horizontal
6	240.5953	12.50	-26.29	37.93	24.14	46.00	21.86	Horizontal



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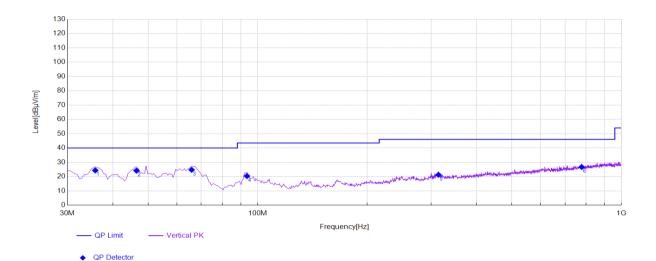
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Report No. Page: ZEWM2310001500RG04 61 of 75



Final Da	ata List							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	35.8229	11.73	-27.99	40.58	24.32	40.00	15.68	Vertical
2	46.4982	14.20	-27.79	37.74	24.15	40.00	15.85	Vertical
3	65.908	11.92	-27.60	40.41	24.73	40.00	15.27	Vertical
4	93.5668	10.81	-27.44	37.03	20.40	43.50	23.10	Vertical
5	314.3522	13.37	-25.97	33.85	21.25	46.00	24.75	Vertical
6	778.2441	20.62	-23.79	29.86	26.69	46.00	19.31	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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



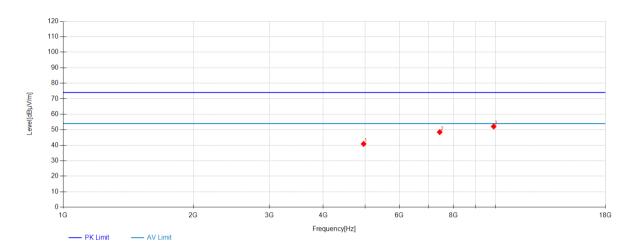
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Report No.: Page:

ZEWM2310001500RG04 62 of 75

Transmitter emission Above 1GHz BLE 1M_Channel 39



Final D	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4960	52.61	31.04	-42.78	40.87	74.00	33.13	Horizontal				
2	7440	49.95	36.78	-38.28	48.45	74.00	25.55	Horizontal				
3	9920	48.96	38.62	-35.49	52.09	74.00	21.91	Horizontal				



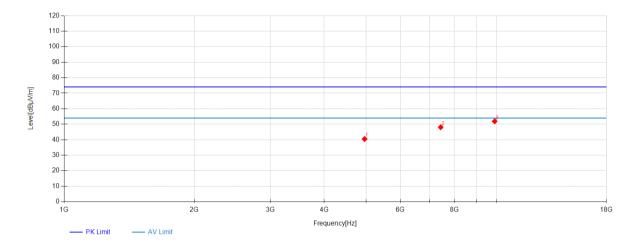
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Report No.: Page: ZEWM2310001500RG04 63 of 75

BLE 1M_Channel 39



Final D	Data List							
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	4960	52.20	31.04	-42.78	40.46	74.00	33.54	Vertical
2	7440	49.54	36.78	-38.28	48.04	74.00	25.96	Vertical
3	9920	48.77	38.62	-35.49	51.90	74.00	22.10	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(dBµV/m) – Level(dBµV/m)

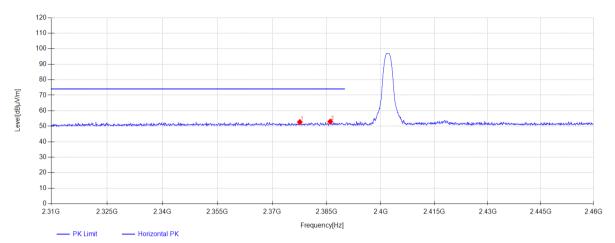
2) Both peak and average measured complies with the limit line, so test result is "PASS".



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Report No.: Page: ZEWM2310001500RG04 64 of 75

Restricted bands around fundamental frequency BLE 1M Channel 0



Final	Final 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	2377.6088	48.24	27.49	-23.04	52.69	74.00	21.31	199	210	Horizontal		
2	2386.013	48.57	27.46	-23.02	53.01	74.00	20.99	199	210	Horizontal		

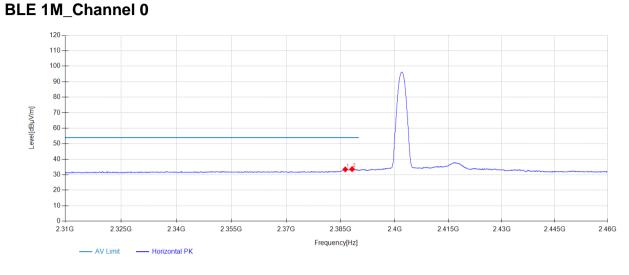


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Report No.: Page: ZEWM2310001500RG04 65 of 75



Final	Final 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	2386.3132	29.00	27.45	-23.02	33.43	54.00	20.57	199	210	Horizontal		
2	2388.1891	29.17	27.45	-23.02	33.60	54.00	20.40	199	210	Horizontal		

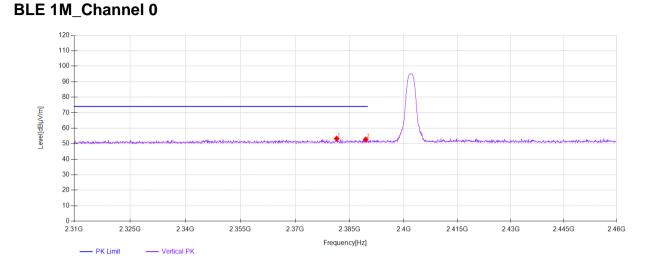


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Report No.: Page: ZEWM2310001500RG04 66 of 75



Final	Final 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	2381.4357	48.83	27.47	-23.03	53.27	74.00	20.73	367	150	Vertical		
2	2389.4647	48.28	27.44	-23.02	52.70	74.00	21.30	367	150	Vertical		

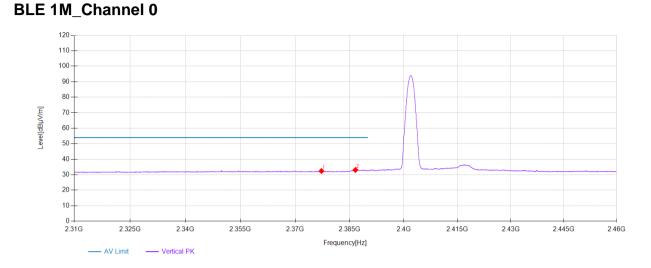


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Report No.: Page: ZEWM2310001500RG04 67 of 75



Final	Final Data List											
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1	2377.2336	27.96	27.49	-23.04	32.41	54.00	21.59	367	150	Vertical		
2	2386.6133	28.64	27.45	-23.02	33.07	54.00	20.93	367	150	Vertical		

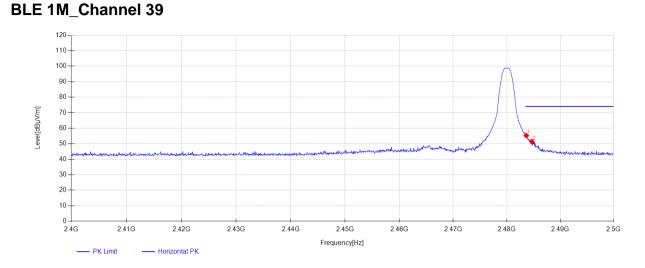


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Report No.: Page: ZEWM2310001500RG04 68 of 75



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1	2483.6418	50.64	27.73	-23.12	55.25	74.00	18.75	141	46	Horizontal		
2	2484.6923	46.67	27.74	-23.12	51.29	74.00	22.71	141	46	Horizontal		



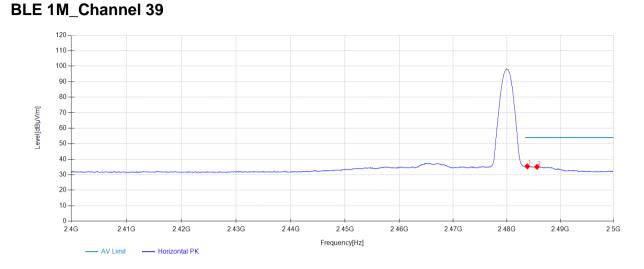
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Report No.: Page:

ZEWM2310001500RG04 69 of 75



Final	Final 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	2483.8419	30.76	27.74	-23.12	35.38	54.00	18.62	141	46	Horizontal		
2	2485.6428	30.46	27.74	-23.12	35.08	54.00	18.92	141	46	Horizontal		



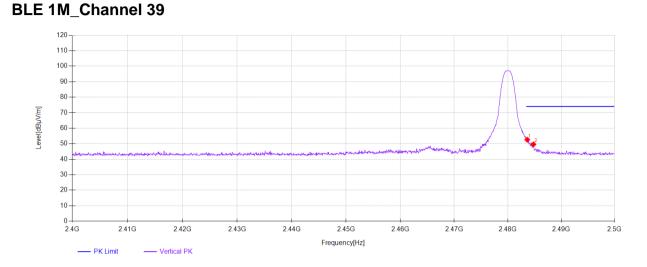
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Report No.: Page:

ZEWM2310001500RG04 70 of 75



Final	Final 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	2483.6418	47.98	27.73	-23.12	52.59	74.00	21.41	388	168	Vertical		
2	2484.7924	44.96	27.74	-23.12	49.58	74.00	24.42	388	168	Vertical		



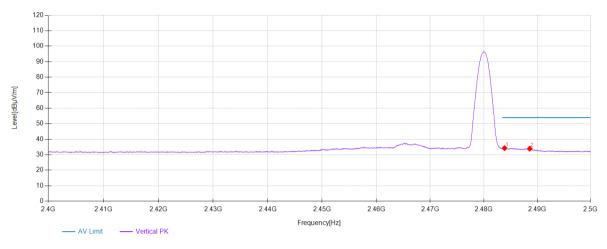
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Report No.: Page: ZEWM2310001500RG04 71 of 75

BLE 1M_Channel 39



Final 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	2483.8919	29.62	27.74	-23.12	34.24	54.00	19.76	388	168	Vertical	
2	2488.5943	29.25	27.75	-23.12	33.88	54.00	20.12	388	168	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(dBµV) + 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) Both peak and average measured complies with the limit line, so test result is "PASS".

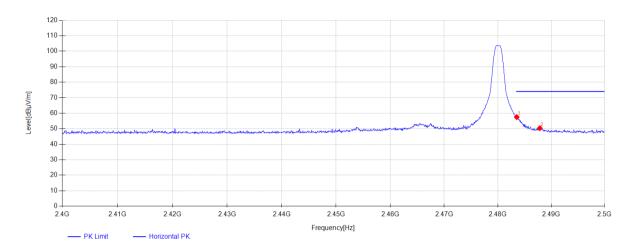


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Report No.: Z Page: 7

ZEWM2310001500RG04 72 of 75

Test on the worst case: BLE 1M_Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.5418	47.98	27.73	-18.19	57.52	74.00	16.48	Horizontal		
2	2487.8439	40.74	27.75	-18.17	50.32	74.00	23.68	Horizontal		



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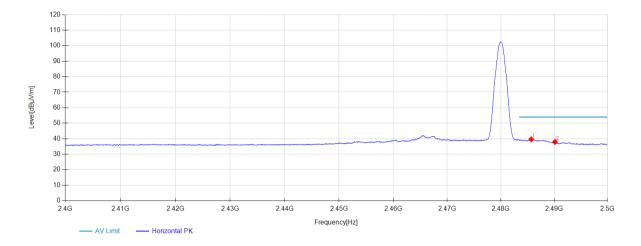
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Report No.: Page:

ZEWM2310001500RG04 73 of 75

BLE 1M Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2485.6928	30.04	27.74	-18.18	39.60	54.00	14.40	Horizontal		
2	2490.1451	28.29	27.76	-18.16	37.89	54.00	16.11	Horizontal		



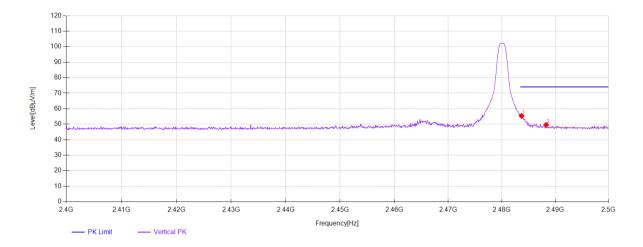
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Report No.: Page: ZEWM2310001500RG04 74 of 75

BLE 1M_Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.6918	45.83	27.73	-18.19	55.37	74.00	18.63	Vertical		
2	2488.2941	39.95	27.75	-18.17	49.53	74.00	24.47	Vertical		



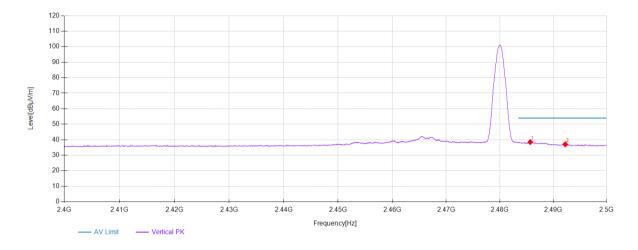
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Report No.: Page: ZEWM2310001500RG04 75 of 75

BLE 1M_Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2485.6928	28.92	27.74	-18.18	38.48	54.00	15.52	Vertical		
2	2492.2461	27.43	27.77	-18.19	37.01	54.00	16.99	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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

---End of Report---



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