

Report No.: SEWM2207000107RG04

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TEST REPORT

SEWM2207000107RG **Application No.:**

Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.

Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot **Address of Applicant:**

Free Trade Zone

Manufacturer: Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, Address of Manufacturer:

China

EUT Description: Portable Tablet Computer

Model No.: TB350FU Trade Mark: Lenovo

FCC ID: O57TB350FU

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2022/07/11

Date of Test: 2022/07/16 to 2022/08/12

Date of Issue: 2022/08/16

Test Result: PASS *

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

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2022/08/16		Original			

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



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2 Test Summary

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



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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

3.2 Test Location

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

<u> </u>				
EUT Description:	Portable Tablet Computer			
Model No.:	TB350FU			
Trade Mark:	Lenovo			
Hardware Version:	TB350FU			
Software Version:	TB350FU_RF01_220729			
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 V5.2			
Modulation Type:	GFSK			
Number of Channel:	40			
Datas Type*	⊠Provided by client			
Rates Type*:	1M PHY 2M PHY			
Antenna Type:	PIFA Antenna			
Antenna Gain*:	⊠Provided by client			
Antenna Gani .	-1.2dBi(Ant4)			
RF Cable:	1.0dB			

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	Operation Frequency of each channel							
Channel	nannel 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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NT:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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3.5 Test Environment

Normal Temperature

Environment Parameter	101.0 kPa Selected Values During Tests					
Relative Humidity	44~46 % RH Ambient					
Value	Temperature(°C)	Voltage(V)				
NTNV	22~23	3.86				
Remark: NV: Normal Voltage						

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 PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is -1.2dBi(Ant4). (Provided by client)*.

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz				
Limit:	Frequency range(MHz)	Limit (d	BuV)			
	Frequency range(MHZ)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secon plane in the same was multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plate placed 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 and associated equipments. 5) In order to find the material and all of the interface.	ted to AC power source throusion Network) which provides are cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit be a strip was used to connect me the rating of the LISN was not a placed upon a non-metallic ne. And for floor-standing arrantal ground reference plane. The was placed upon a monded to the LISN 1 was placed 0.8 m from the vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the LISN 1 was placed 0.8 m from the LISN 1 and the EUT. All coment was at least 0.8 m from aximum emission, the relative ce cables must be changed as an conducted measurement.	igh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were It to the ground reference eing measured. A ultiple power cables to a pot exceeded. It table 0.8m above the angement, the EUT was rence plane. The rear of ference plane. The endizontal ground im the boundary of the plane for LISNs is distance was between other units of the EUT in the LISN 2.			



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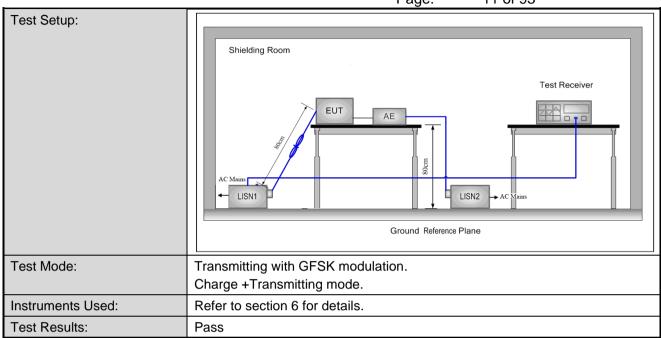
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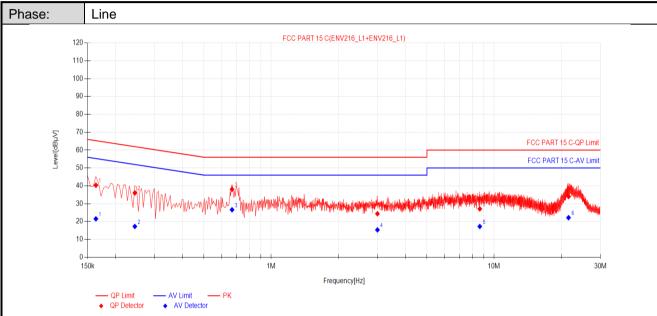
Measurement Data

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.

For Sample #1:

BLE 1M



Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	29.64	40.33	65.28	24.95	10.84	21.53	55.28	33.75	PASS
2	0.2445	10.80	25.24	36.04	61.94	25.90	6.47	17.27	51.94	34.67	PASS
3	0.6675	10.56	27.46	38.02	56.00	17.98	16.04	26.60	46.00	19.40	PASS
4	2.9985	10.66	13.71	24.37	56.00	31.63	4.69	15.35	46.00	30.65	PASS
5	8.6325	10.66	16.44	27.10	60.00	32.90	6.59	17.25	50.00	32.75	PASS
6	21.5970	10.37	23.64	34.01	60.00	25.99	11.79	22.16	50.00	27.84	PASS

Remark

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



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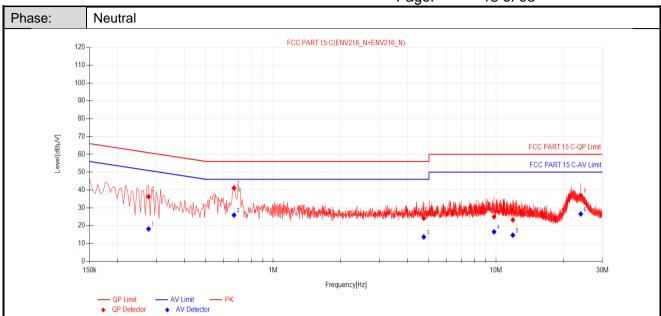
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2760	10.74	25.51	36.25	60.94	24.69	7.42	18.16	50.94	32.78	PASS
2	0.6675	10.78	30.35	41.13	56.00	14.87	15.15	25.93	46.00	20.07	PASS
3	4.7400	10.67	13.48	24.15	56.00	31.85	2.99	13.66	46.00	32.34	PASS
4	9.7980	10.67	14.32	24.99	60.00	35.01	5.87	16.54	50.00	33.46	PASS
5	11.8995	10.65	12.58	23.23	60.00	36.77	4.02	14.67	50.00	35.33	PASS
6	24.0000	10.51	26.45	36.96	60.00	23.04	16.05	26.56	50.00	23.44	PASS

Remark:

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



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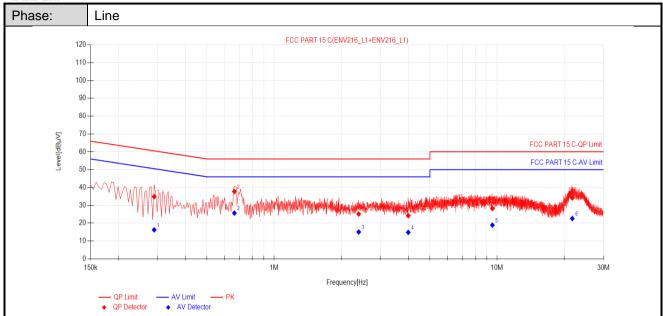
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BLE 2M



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2895	10.66	24.25	34.91	60.54	25.63	5.61	16.27	50.54	34.27	PASS
2	0.6630	10.56	27.22	37.78	56.00	18.22	15.08	25.64	46.00	20.36	PASS
3	2.3955	10.66	14.48	25.14	56.00	30.86	4.40	15.06	46.00	30.94	PASS
4	3.9975	10.74	13.47	24.21	56.00	31.79	4.10	14.84	46.00	31.16	PASS
5	9.5325	10.64	17.62	28.26	60.00	31.74	8.26	18.90	50.00	31.10	PASS
6	21.7635	10.36	23.75	34.11	60.00	25.89	12.26	22.62	50.00	27.38	PASS

Remark:

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



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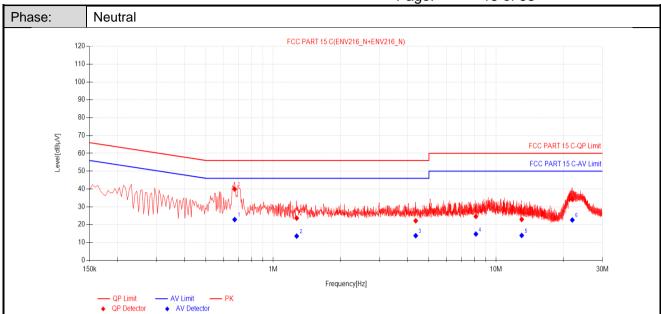
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6720	10.78	29.17	39.95	56.00	16.05	12.08	22.86	46.00	23.14	PASS
2	1.2750	10.78	12.88	23.66	56.00	32.34	2.81	13.59	46.00	32.41	PASS
3	4.3620	10.71	11.47	22.18	56.00	33.82	3.11	13.82	46.00	32.18	PASS
4	8.1240	10.57	14.05	24.62	60.00	35.38	4.18	14.75	50.00	35.25	PASS
5	13.0425	10.62	12.30	22.92	60.00	37.08	3.33	13.95	50.00	36.05	PASS
6	21.9975	10.45	23.76	34.21	60.00	25.79	12.18	22.63	50.00	27.37	PASS

Remark:

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



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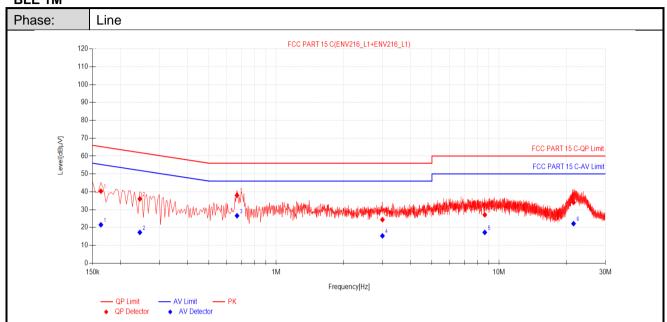
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For Sample #2: BLE 1M



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	29.64	40.33	65.28	24.95	10.84	21.53	55.28	33.75	PASS
2	0.2445	10.80	25.24	36.04	61.94	25.90	6.47	17.27	51.94	34.67	PASS
3	0.6675	10.56	27.46	38.02	56.00	17.98	16.04	26.60	46.00	19.40	PASS
4	2.9985	10.66	13.71	24.37	56.00	31.63	4.69	15.35	46.00	30.65	PASS
5	8.6325	10.66	16.44	27.10	60.00	32.90	6.59	17.25	50.00	32.75	PASS
6	21.5970	10.37	23.64	34.01	60.00	25.99	11.79	22.16	50.00	27.84	PASS

Remark:

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



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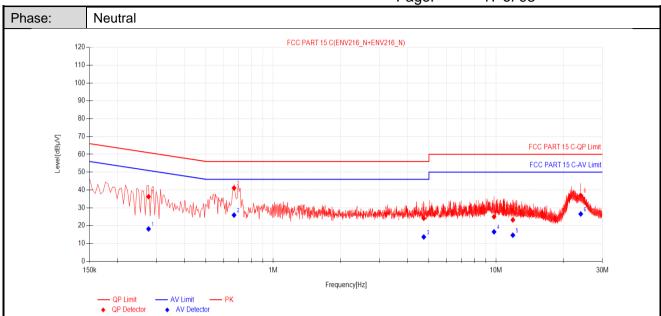
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Report No.: SEWM2207000107RG04

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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2760	10.74	25.51	36.25	60.94	24.69	7.42	18.16	50.94	32.78	PASS
2	0.6675	10.78	30.35	41.13	56.00	14.87	15.15	25.93	46.00	20.07	PASS
3	4.7400	10.67	13.48	24.15	56.00	31.85	2.99	13.66	46.00	32.34	PASS
4	9.7980	10.67	14.32	24.99	60.00	35.01	5.87	16.54	50.00	33.46	PASS
5	11.8995	10.65	12.58	23.23	60.00	36.77	4.02	14.67	50.00	35.33	PASS
6	24.0000	10.51	26.45	36.96	60.00	23.04	16.05	26.56	50.00	23.44	PASS

Remark:

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



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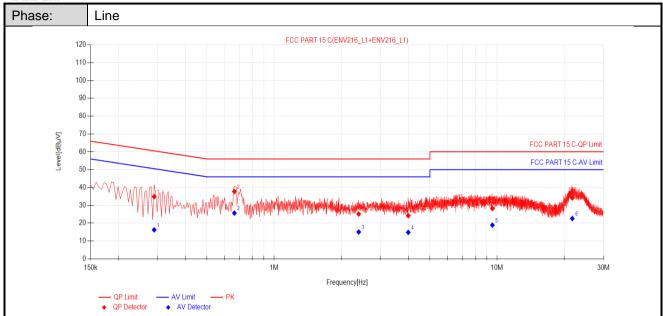
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BLE 2M



Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2895	10.66	24.25	34.91	60.54	25.63	5.61	16.27	50.54	34.27	PASS
2	0.6630	10.56	27.22	37.78	56.00	18.22	15.08	25.64	46.00	20.36	PASS
3	2.3955	10.66	14.48	25.14	56.00	30.86	4.40	15.06	46.00	30.94	PASS
4	3.9975	10.74	13.47	24.21	56.00	31.79	4.10	14.84	46.00	31.16	PASS
5	9.5325	10.64	17.62	28.26	60.00	31.74	8.26	18.90	50.00	31.10	PASS
6	21.7635	10.36	23.75	34.11	60.00	25.89	12.26	22.62	50.00	27.38	PASS

Remark:

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



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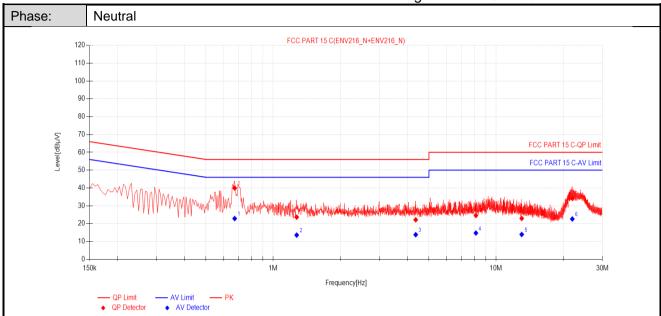
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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.6720	10.78	29.17	39.95	56.00	16.05	12.08	22.86	46.00	23.14	PASS
2	1.2750	10.78	12.88	23.66	56.00	32.34	2.81	13.59	46.00	32.41	PASS
3	4.3620	10.71	11.47	22.18	56.00	33.82	3.11	13.82	46.00	32.18	PASS
4	8.1240	10.57	14.05	24.62	60.00	35.38	4.18	14.75	50.00	35.25	PASS
5	13.0425	10.62	12.30	22.92	60.00	37.08	3.33	13.95	50.00	36.05	PASS
6	21.9975	10.45	23.76	34.21	60.00	25.79	12.18	22.63	50.00	27.37	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: Appendix



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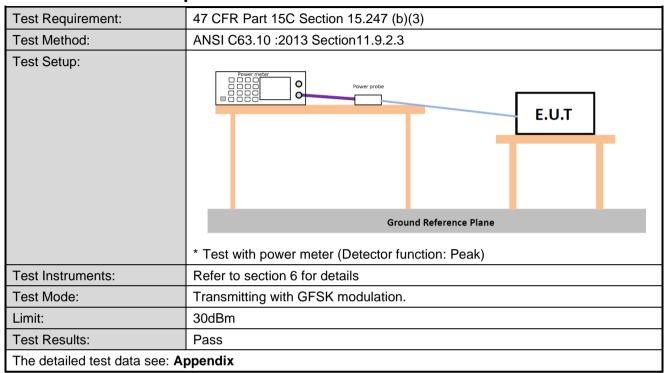
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4.4 Conducted Output Power





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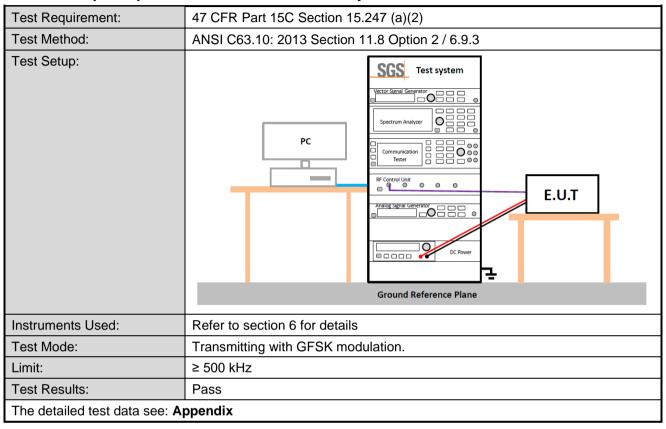
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





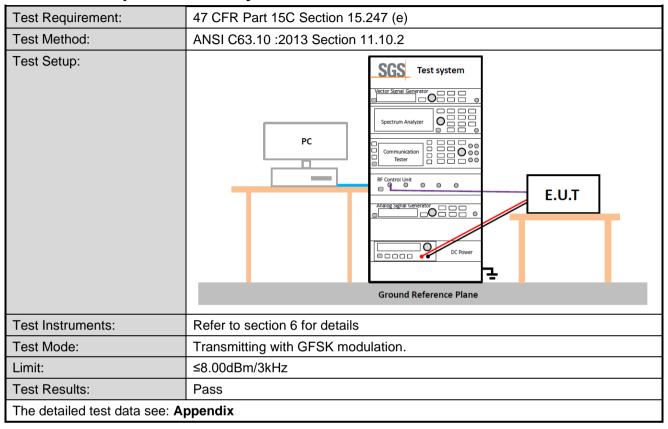
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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

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



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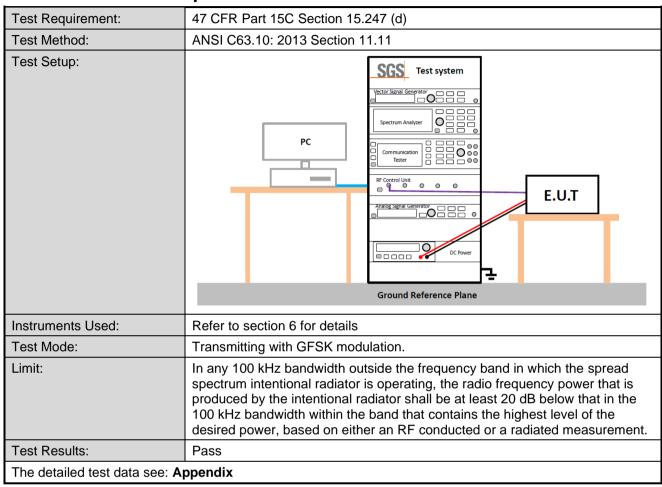
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4.8 RF Conducted Spurious Emissions





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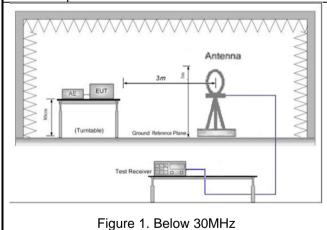
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Sec	ANSI C63.10 :2013 Section 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			
	emissions is 20dB above applicable to the equipm	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						

Test Setup:



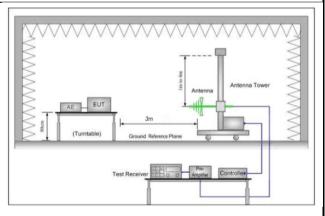


Figure 2. 30MHz to 1GHz



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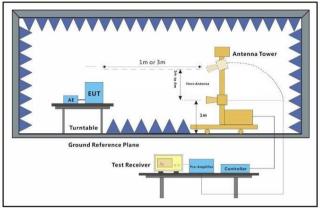


Figure 3. Above 1 GHz

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.
- 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.
- At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements Below 1000MHz

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



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



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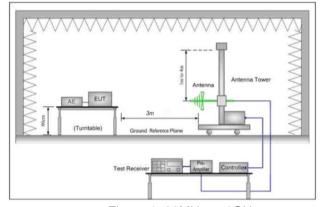
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4.10Restricted bands around fundamental frequency

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

Test Setup:



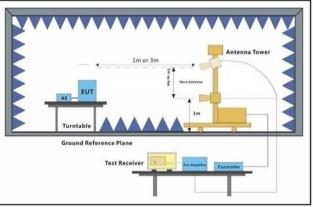


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

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



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



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

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

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

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

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



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6 Equipment List

o =quip	o Equipment List						
RF Test Equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2021/12/22	2022/12/21		
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16		
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR		
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03		
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03		
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14		

CE Test System						
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	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18	
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18	
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR	
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18	
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15	



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B			Page:	33 01 93			
RSE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15		
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR		



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7 **Photographs - Setup Photos**

Refer to Appendix A.2 WLAN Setup Photos.



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant4	2402	0.66	2401.59	2402.26	≥0.5	PASS
		2440	0.66	2439.60	2440.25	≥0.5	PASS
		2480	0.65	2479.60	2480.25	≥0.5	PASS
BLE_2M	Ant4	2402	1.19	2401.35	2402.54	≥0.5	PASS
		2440	1.19	2439.35	2440.54	≥0.5	PASS
		2480	1.20	2479.34	2480.54	≥0.5	PASS



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Test Graphs





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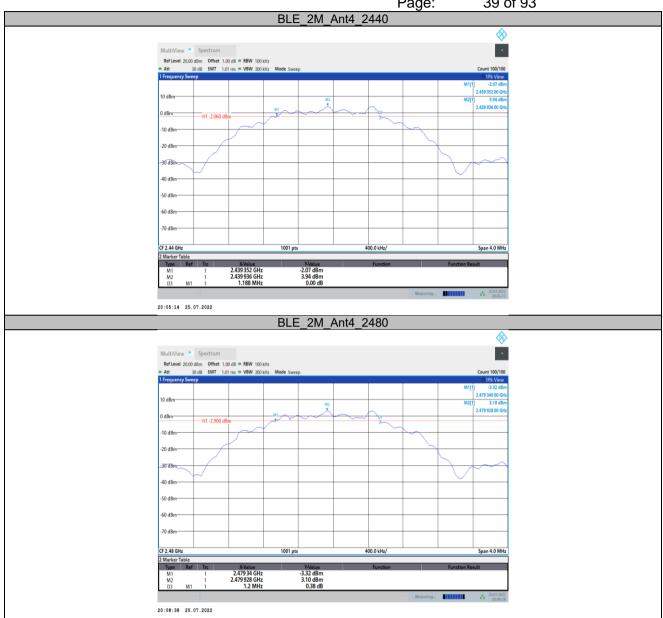
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2402	1.049	2401.435	2402.484	
BLE_1M	Ant4	2440	1.049	2439.436	2440.485	
_		2480	1.05	2479.435	2480.485	Reporting
		2402	2.055	2400.934	2402.989	only
BLE_2M	Ant4	2440	2.054	2438.935	2440.989	
		2480	2.053	2478.934	2480.988	



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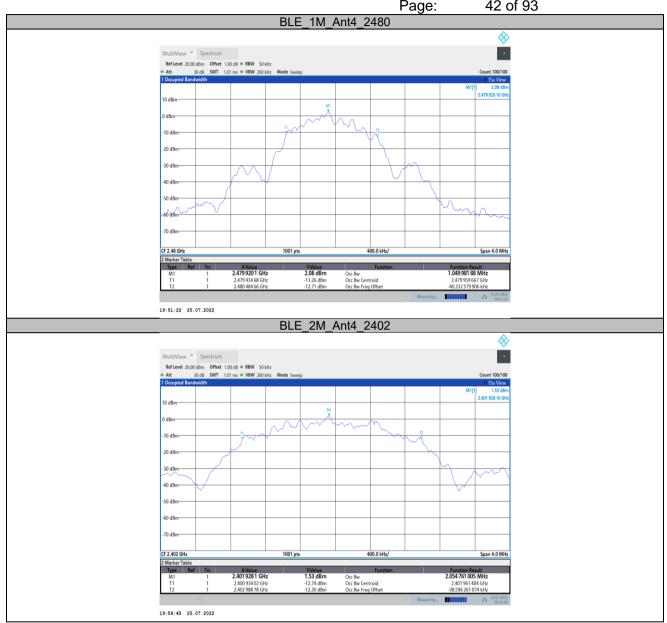
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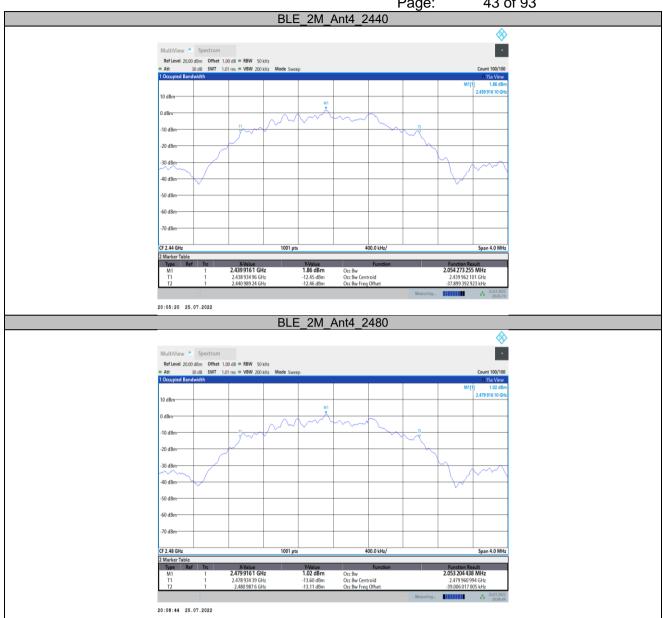
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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	4.53	≤30	PASS
BLE_1M	Ant4	2440	4.68	≤30	PASS
		2480	4.66	≤30	PASS
		2402	4.72	≤30	PASS
BLE_2M	Ant4	2440	4.75	≤30	PASS
		2480	4.73	≤30	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2402	-10.7	≤8.00	PASS
BLE_1M	Ant4	2440	-10.58	≤8.00	PASS
		2480	-11.27	≤8.00	PASS
		2402	-13.8	≤8.00	PASS
BLE_2M	Ant4	2440	-13.83	≤8.00	PASS
_		2480	-14.64	≤8.00	PASS



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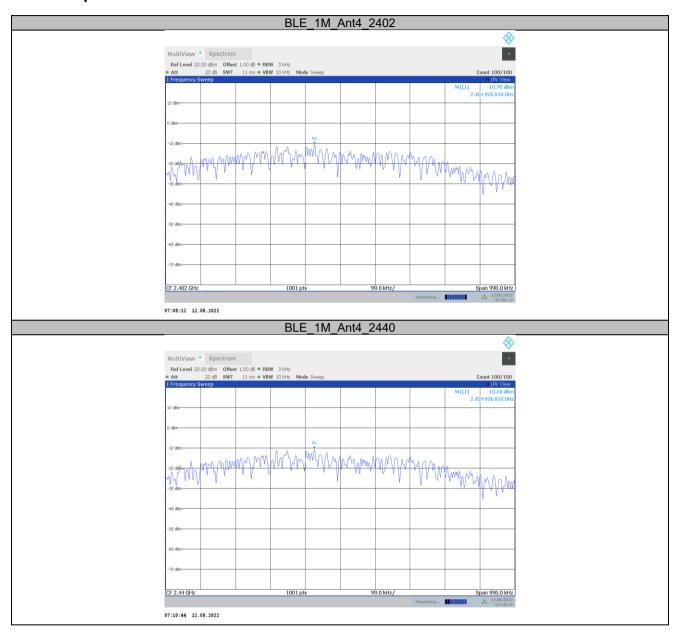


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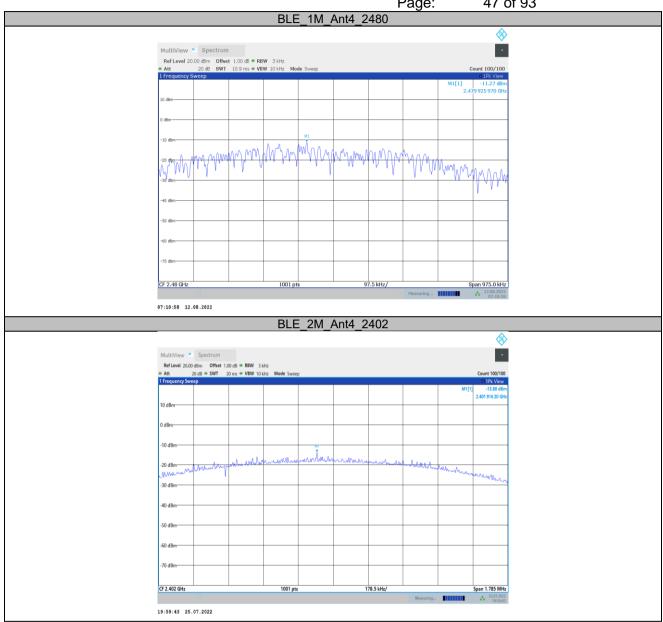
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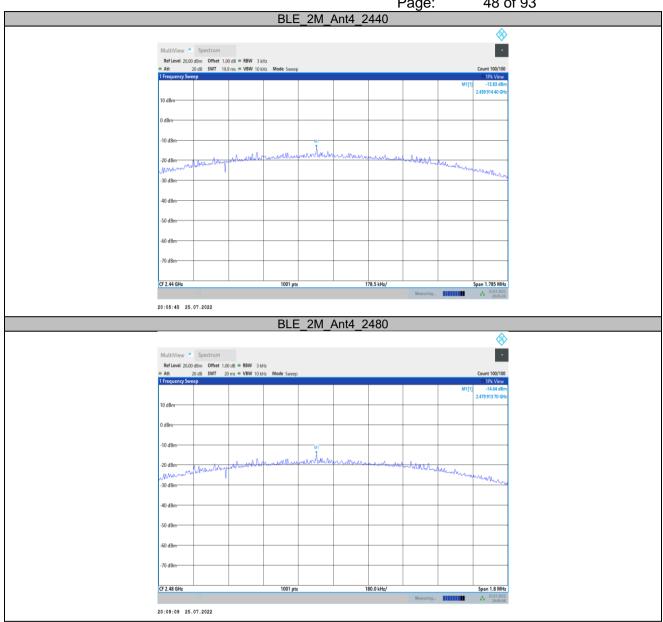
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Band edge measurements Test Graphs





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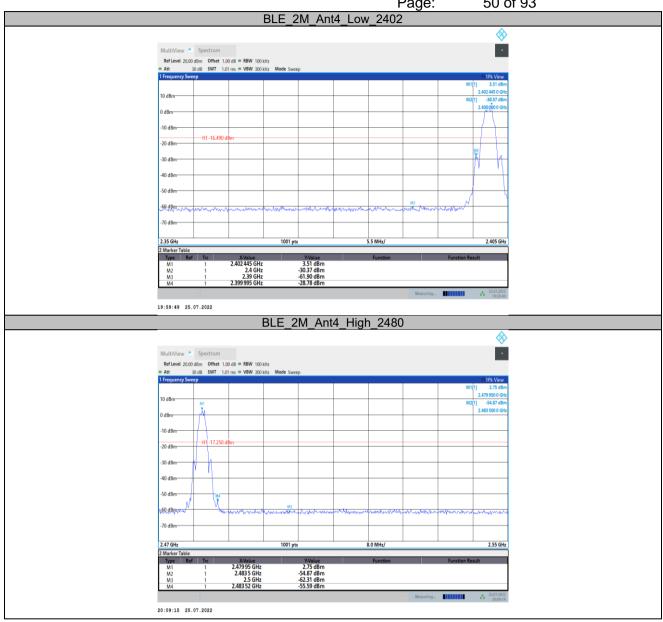
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Conducted Spurious Emission Test Graphs





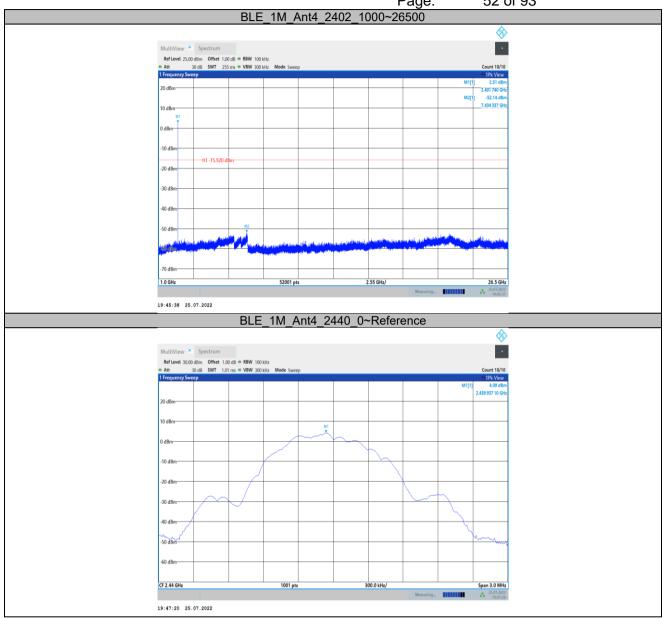
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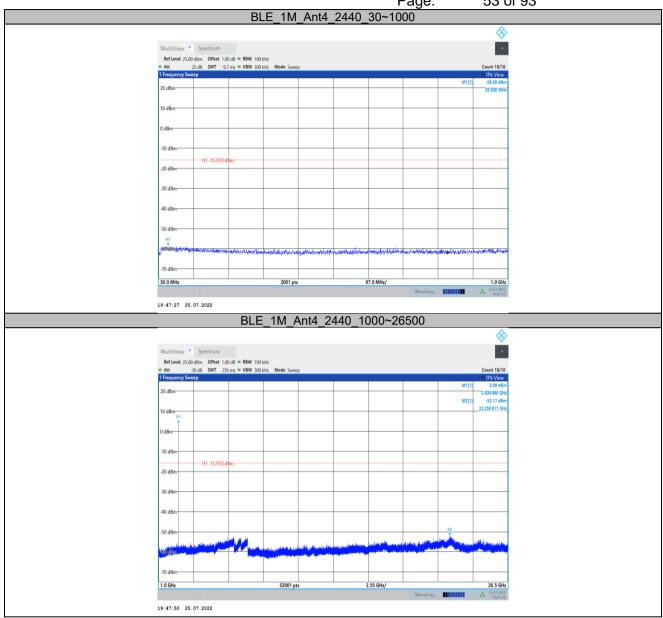
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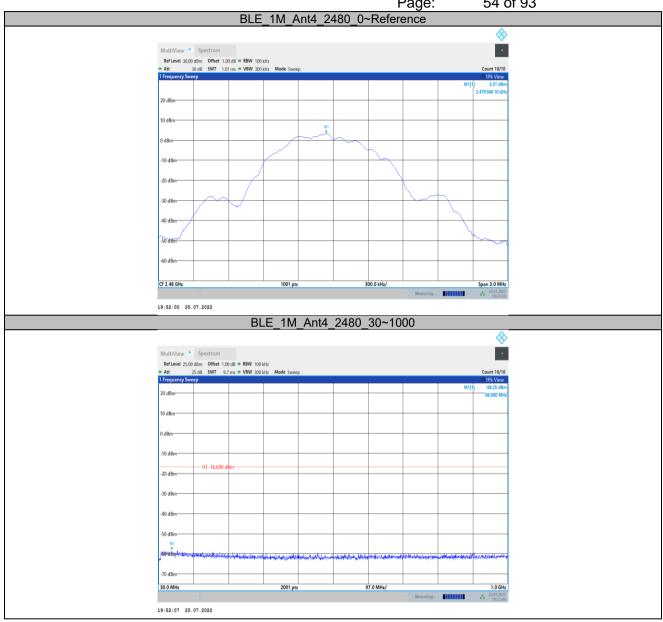


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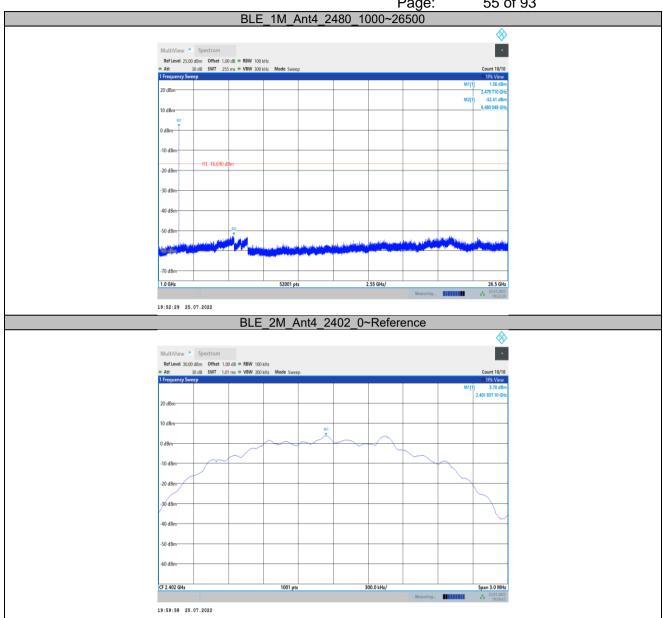
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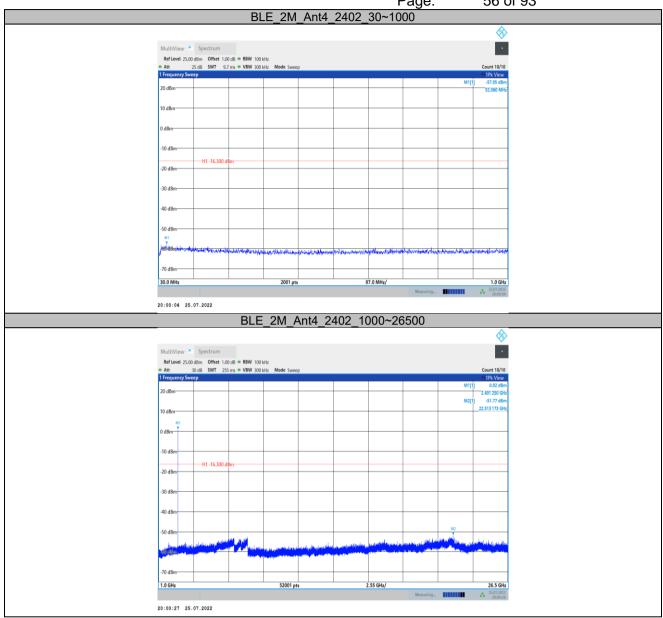
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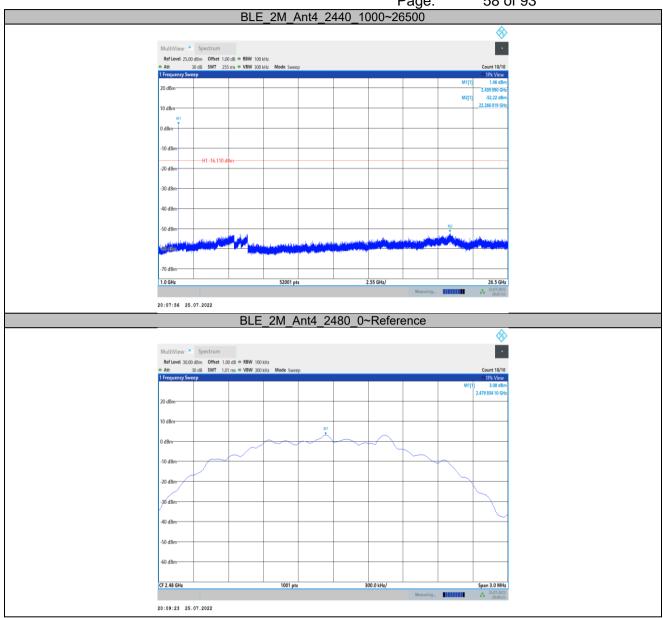
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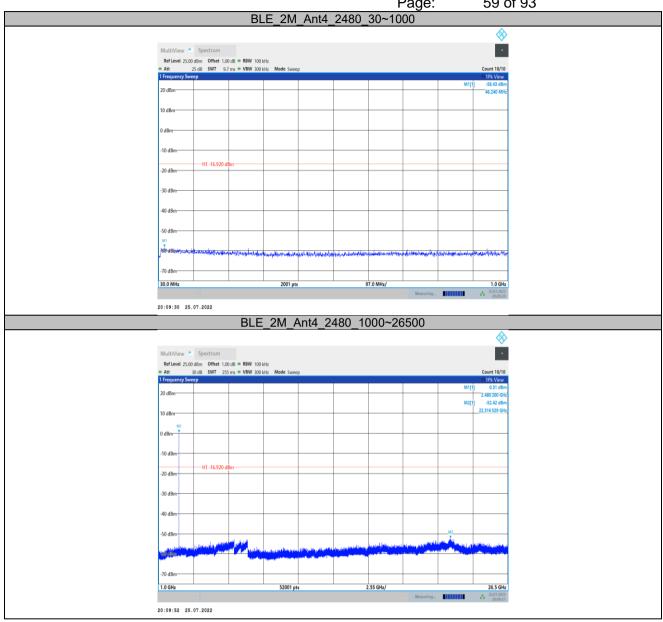
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant4	2402	0.38	0.62	61.29	2.13
BLE 2M	Ant4	2402	1.06	1.87	56.68	2.47



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Test Graphs





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Report No.: SEWM2207000107RG04

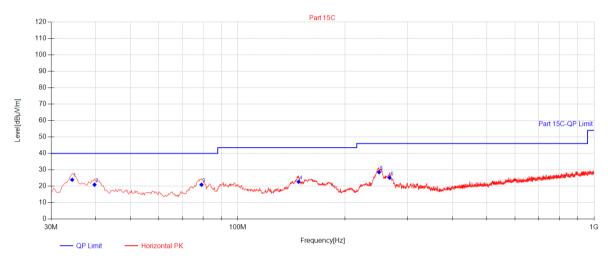
Rev.: 01

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Radiated Spurious Emissions Radiated emission below 1GHz

For Sample #1:

Worst case Mode: BLE 1M_Channel 39



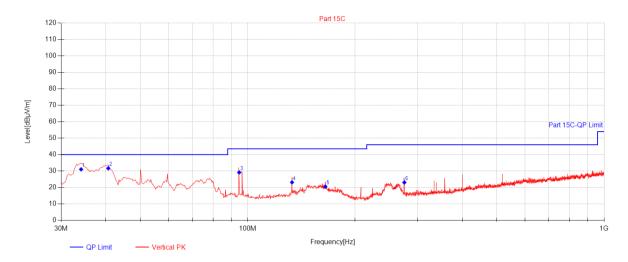
Final	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.365	47.05	-36.51	13.37	23.91	40.00	16.09	125	156	Horizontal
2	39.7	43.13	-36.28	14.03	20.88	40.00	19.12	155	156	Horizontal
3	79.2275	47.16	-35.70	9.41	20.87	40.00	19.13	184	277	Horizontal
4	148.34	44.19	-35.28	13.77	22.68	43.50	20.82	196	352	Horizontal
5	249.4625	51.29	-34.32	11.55	28.52	46.00	17.48	172	188	Horizontal
6	266.9225	47.29	-34.10	11.99	25.17	46.00	20.83	133	178	Horizontal





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Fina	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	34.1225	54.19	-36.52	13.36	31.03	40.00	8.97	251	114	Vertical			
2	40.67	53.89	-36.26	14.01	31.64	40.00	8.36	174	207	Vertical			
3	94.7475	55.48	-36.11	9.78	29.15	43.50	14.35	199	1	Vertical			
4	133.305	45.69	-35.61	13.03	23.11	43.50	20.39	231	2	Vertical			
5	165.315	41.45	-35.22	14.28	20.51	43.50	22.99	145	11	Vertical			
6	275.41	45.17	-34.33	12.20	23.03	46.00	22.97	169	154	Vertical			



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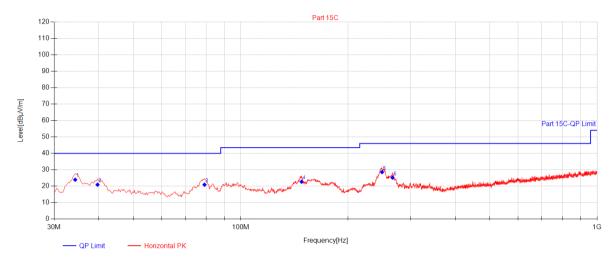


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For Sample #2:

Worst case Mode: BLE 1M_Channel 39



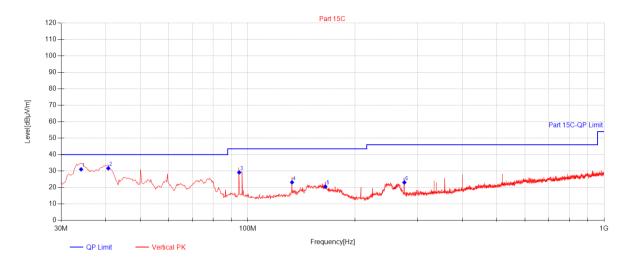
Fina	l Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.365	47.05	-36.51	13.37	23.91	40.00	16.09	125	156	Horizontal
2	39.7	43.13	-36.28	14.03	20.88	40.00	19.12	155	156	Horizontal
3	79.2275	47.16	-35.70	9.41	20.87	40.00	19.13	184	277	Horizontal
4	148.34	44.19	-35.28	13.77	22.68	43.50	20.82	196	352	Horizontal
5	249.4625	51.29	-34.32	11.55	28.52	46.00	17.48	172	188	Horizontal
6	266.9225	47.29	-34.10	11.99	25.17	46.00	20.83	133	178	Horizontal





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Fina	Final Data List												
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	34.1225	54.19	-36.52	13.36	31.03	40.00	8.97	251	114	Vertical			
2	40.67	53.89	-36.26	14.01	31.64	40.00	8.36	174	207	Vertical			
3	94.7475	55.48	-36.11	9.78	29.15	43.50	14.35	199	1	Vertical			
4	133.305	45.69	-35.61	13.03	23.11	43.50	20.39	231	2	Vertical			
5	165.315	41.45	-35.22	14.28	20.51	43.50	22.99	145	11	Vertical			
6	275.41	45.17	-34.33	12.20	23.03	46.00	22.97	169	154	Vertical			

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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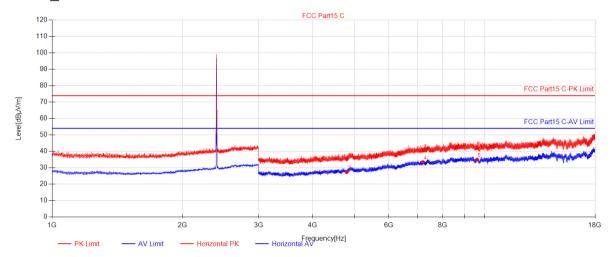
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Transmitter emission Above 1GHz

For Sample #1:

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	48.58	32.33	-45.54	35.37	74.00	38.63	123	25	Horizontal			
2	4804.0000	40.52	32.33	-45.54	27.31	54.00	26.69	166	251	Horizontal			
3	7206.0000	47.33	36.60	-43.44	40.49	74.00	33.51	251	8	Horizontal			
4	7206.0000	40.27	36.60	-43.44	33.43	54.00	20.57	123	305	Horizontal			
5	9608.0000	36.26	38.43	-39.65	35.04	54.00	18.96	195	0	Horizontal			
6	9608.0000	43.28	38.43	-39.65	42.06	74.00	31.94	175	305	Horizontal			

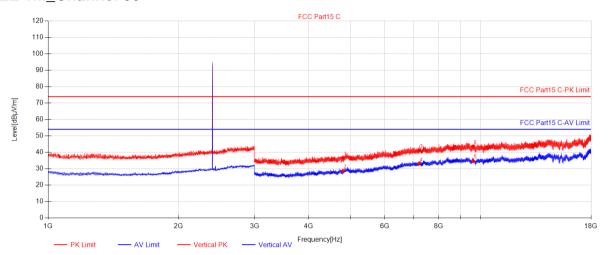




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BLE 1M_Channel 00



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4804.0000	49.91	32.33	-45.54	36.70	74.00	37.30	145	6	Vertical			
2	4804.0000	41.84	32.33	-45.54	28.63	54.00	25.37	236	164	Vertical			
3	7206.0000	48.05	36.60	-43.44	41.21	74.00	32.79	195	53	Vertical			
4	7206.0000	39.95	36.60	-43.44	33.11	54.00	20.89	170	79	Vertical			
5	9608.0000	35.93	38.43	-39.65	34.71	54.00	19.29	133	135	Vertical			
6	9608.0000	44.83	38.43	-39.65	43.61	74.00	30.39	127	24	Vertical			

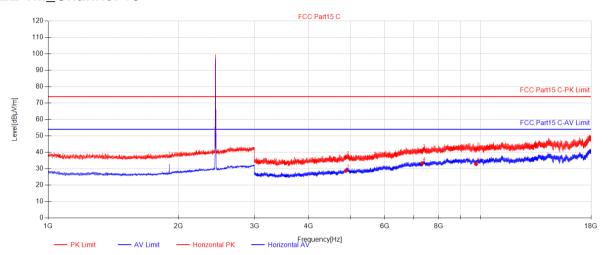




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BLE 1M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	49.95	32.55	-45.53	36.97	74.00	37.03	125	82	Horizontal			
2	4882.0000	41.63	32.55	-45.53	28.65	54.00	25.35	122	193	Horizontal			
3	7323.0000	48.02	36.53	-43.67	40.88	74.00	33.12	236	7	Horizontal			
4	7323.0000	40.46	36.53	-43.67	33.32	54.00	20.68	199	53	Horizontal			
5	9764.0000	33.96	38.26	-39.47	32.75	54.00	21.25	172	53	Horizontal			
6	9764.0000	43.12	38.26	-39.47	41.91	74.00	32.09	261	248	Horizontal			

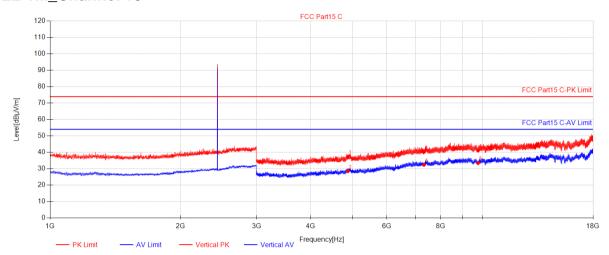




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BLE 1M_Channel 19



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4882.0000	50.36	32.55	-45.53	37.38	74.00	36.62	215	305	Vertical		
2	4882.0000	41.48	32.55	-45.53	28.50	54.00	25.50	126	248	Vertical		
3	7323.0000	47.40	36.53	-43.67	40.26	74.00	33.74	177	0	Vertical		
4	7323.0000	39.57	36.53	-43.67	32.43	54.00	21.57	194	1	Vertical		
5	9764.0000	34.62	38.26	-39.47	33.41	54.00	20.59	169	7	Vertical		
6	9764.0000	42.26	38.26	-39.47	41.05	74.00	32.95	185	248	Vertical		

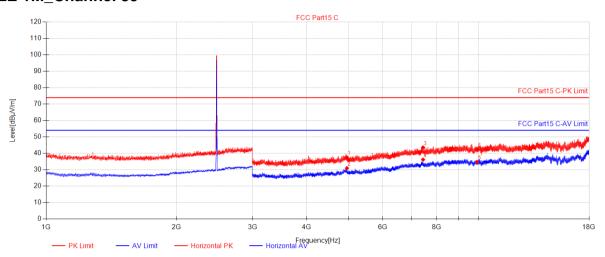




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BLE 1M_Channel 39



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.35	32.77	-45.60	37.52	74.00	36.48	154	332	Horizontal
2	4960.0000	43.75	32.77	-45.60	30.92	54.00	23.08	191	0	Horizontal
3	7440.0000	50.39	36.47	-43.30	43.56	74.00	30.44	236	125	Horizontal
4	7440.0000	42.99	36.47	-43.30	36.16	54.00	17.84	148	1	Horizontal
5	9920.0000	35.66	38.38	-39.31	34.73	54.00	19.27	175	276	Horizontal
6	9920.0000	43.50	38.38	-39.31	42.57	74.00	31.43	291	81	Horizontal

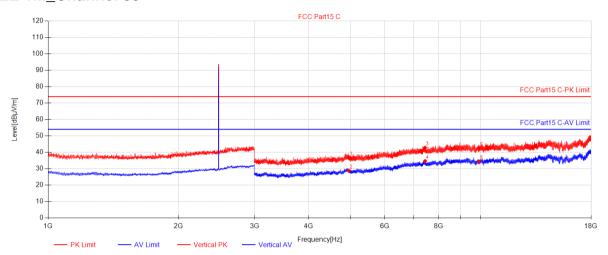




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BLE 1M_Channel 39



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.0000	49.45	32.77	-45.60	36.62	74.00	37.38	125	110	Vertical	
2	4960.0000	41.52	32.77	-45.60	28.69	54.00	25.31	261	356	Vertical	
3	7440.0000	49.62	36.47	-43.30	42.79	74.00	31.21	178	332	Vertical	
4	7440.0000	41.46	36.47	-43.30	34.63	54.00	19.37	236	0	Vertical	
5	9920.0000	35.26	38.38	-39.31	34.33	54.00	19.67	145	110	Vertical	
6	9920.0000	43.52	38.38	-39.31	42.59	74.00	31.41	191	220	Vertical	

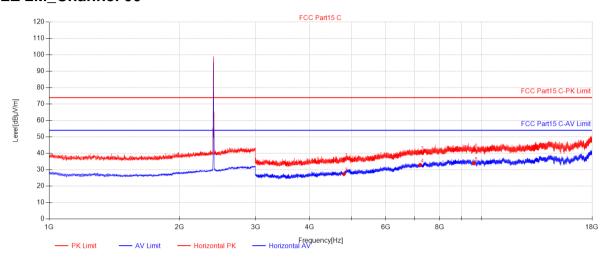




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BLE 2M_Channel 00



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	4804.0000	49.66	32.33	-45.54	36.45	74.00	37.55	213	304	Horizontal
2	4804.0000	40.49	32.33	-45.54	27.28	54.00	26.72	199	6	Horizontal
3	7206.0000	47.38	36.60	-43.44	40.54	74.00	33.46	236	304	Horizontal
4	7206.0000	39.75	36.60	-43.44	32.91	54.00	21.09	175	219	Horizontal
5	9608.0000	35.12	38.43	-39.65	33.90	54.00	20.10	148	356	Horizontal
6	9608.0000	43.22	38.43	-39.65	42.00	74.00	32.00	261	136	Horizontal

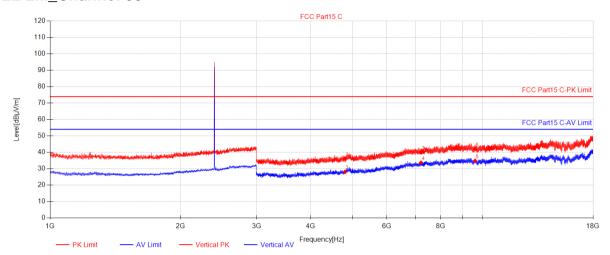




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BLE 2M_Channel 00



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	49.43	32.33	-45.54	36.22	74.00	37.78	154	1	Vertical			
2	4804.0000	41.27	32.33	-45.54	28.06	54.00	25.94	211	305	Vertical			
3	7206.0000	46.66	36.60	-43.44	39.82	74.00	34.18	175	222	Vertical			
4	7206.0000	40.54	36.60	-43.44	33.70	54.00	20.30	172	23	Vertical			
5	9608.0000	36.11	38.43	-39.65	34.89	54.00	19.11	143	122	Vertical			
6	9608.0000	43.24	38.43	-39.65	42.02	74.00	31.98	169	7	Vertical			

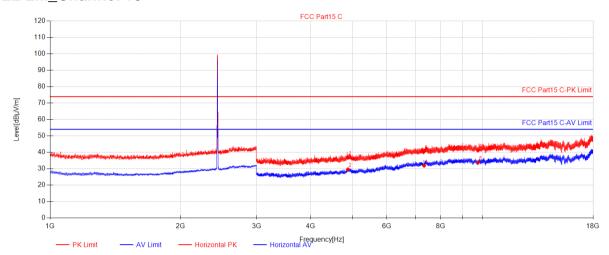




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BLE 2M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	49.74	32.55	-45.53	36.76	74.00	37.24	213	164	Horizontal			
2	4882.0000	42.57	32.55	-45.53	29.59	54.00	24.41	261	8	Horizontal			
3	7323.0000	47.72	36.53	-43.67	40.58	74.00	33.42	251	331	Horizontal			
4	7323.0000	38.99	36.53	-43.67	31.85	54.00	22.15	136	276	Horizontal			
5	9764.0000	35.04	38.26	-39.47	33.83	54.00	20.17	188	331	Horizontal			
6	9764.0000	42.44	38.26	-39.47	41.23	74.00	32.77	142	276	Horizontal			

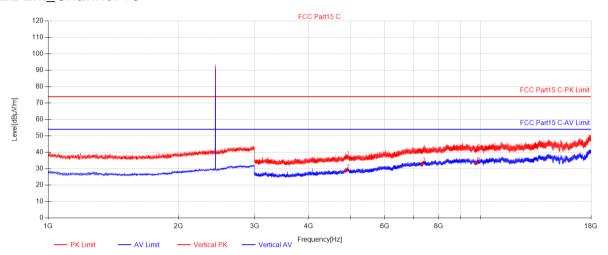




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BLE 2M_Channel 19



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4882.0000	49.92	32.55	-45.53	36.94	74.00	37.06	245	108	Vertical			
2	4882.0000	41.87	32.55	-45.53	28.89	54.00	25.11	199	24	Vertical			
3	7323.0000	40.14	36.53	-43.67	33.00	54.00	21.00	175	24	Vertical			
4	7323.0000	47.87	36.53	-43.67	40.73	74.00	33.27	142	248	Vertical			
5	9764.0000	34.60	38.26	-39.47	33.39	54.00	20.61	261	305	Vertical			
6	9764.0000	42.37	38.26	-39.47	41.16	74.00	32.84	236	81	Vertical			

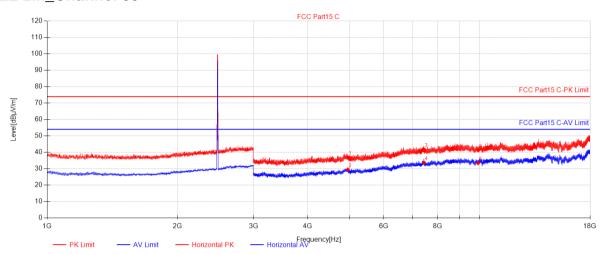




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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.70	32.77	-45.60	36.87	74.00	37.13	125	0	Horizontal			
2	4960.0000	42.33	32.77	-45.60	29.50	54.00	24.50	211	246	Horizontal			
3	7440.0000	48.46	36.47	-43.30	41.63	74.00	32.37	236	16	Horizontal			
4	7440.0000	40.49	36.47	-43.30	33.66	54.00	20.34	155	332	Horizontal			
5	9920.0000	34.30	38.38	-39.31	33.37	54.00	20.63	174	356	Horizontal			
6	9920.0000	42.25	38.38	-39.31	41.32	74.00	32.68	291	304	Horizontal			

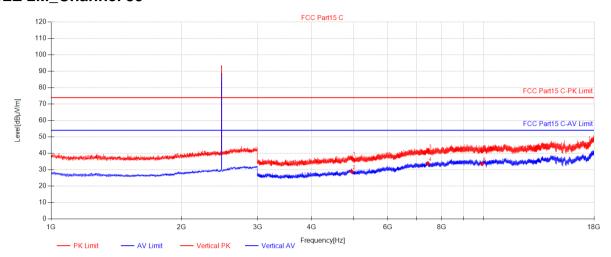




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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.88	32.77	-45.60	37.05	74.00	36.95	175	0	Vertical			
2	4960.0000	41.62	32.77	-45.60	28.79	54.00	25.21	145	83	Vertical			
3	7440.0000	48.39	36.47	-43.30	41.56	74.00	32.44	146	138	Vertical			
4	7440.0000	40.62	36.47	-43.30	33.79	54.00	20.21	235	7	Vertical			
5	9920.0000	34.46	38.38	-39.31	33.53	54.00	20.47	172	306	Vertical			
6	9920.0000	42.14	38.38	-39.31	41.21	74.00	32.79	191	138	Vertical			





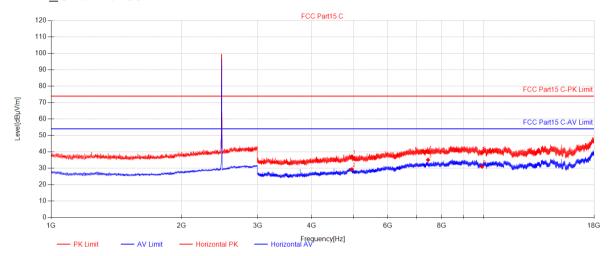
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For Sample #2(Worst):

BLE 1M Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.92	32.77	-45.60	37.09	74.00	36.91	145	3	Horizontal			
2	4960.0000	42.18	32.77	-45.60	29.35	54.00	24.65	210	350	Horizontal			
3	7440.0000	41.92	36.47	-43.30	35.09	54.00	18.91	141	26	Horizontal			
4	7440.0000	46.81	36.47	-43.30	39.98	74.00	34.02	236	54	Horizontal			
5	9920.0000	31.91	38.38	-39.31	30.98	54.00	23.02	178	26	Horizontal			
6	9920.0000	40.34	38.38	-39.31	39.41	74.00	34.59	291	248	Horizontal			

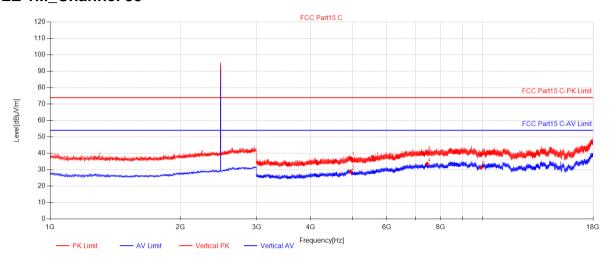




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BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	49.72	32.77	-45.60	36.89	74.00	37.11	285	28	Vertical			
2	4960.0000	41.53	32.77	-45.60	28.70	54.00	25.30	210	276	Vertical			
3	7440.0000	47.24	36.47	-43.30	40.41	74.00	33.59	147	250	Vertical			
4	7440.0000	40.39	36.47	-43.30	33.56	54.00	20.44	133	360	Vertical			
5	9920.0000	32.25	38.38	-39.31	31.32	54.00	22.68	194	4	Vertical			
6	9920.0000	40.12	38.38	-39.31	39.19	74.00	34.81	168	4	Vertical			

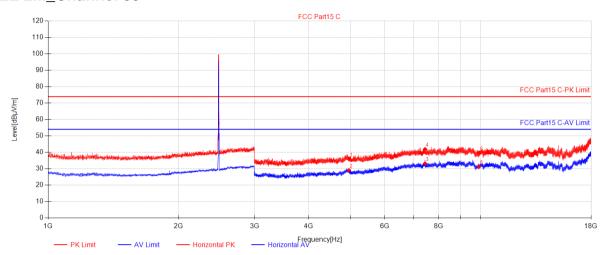




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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	48.68	32.77	-45.60	35.85	74.00	38.15	175	4	Horizontal			
2	4960.0000	41.86	32.77	-45.60	29.03	54.00	24.97	122	155	Horizontal			
3	7440.0000	40.02	36.47	-43.30	33.19	54.00	20.81	210	142	Horizontal			
4	7440.0000	48.74	36.47	-43.30	41.91	74.00	32.09	168	4	Horizontal			
5	9920.0000	32.14	38.38	-39.31	31.21	54.00	22.79	133	167	Horizontal			
6	9920.0000	40.72	38.38	-39.31	39.79	74.00	34.21	194	85	Horizontal			

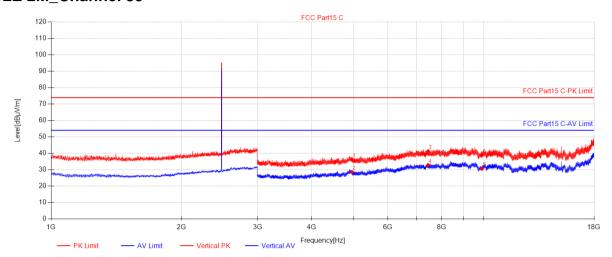




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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960.0000	48.94	32.77	-45.60	36.11	74.00	37.89	145	124	Vertical			
2	4960.0000	41.36	32.77	-45.60	28.53	54.00	25.47	170	4	Vertical			
3	7440.0000	47.95	36.47	-43.30	41.12	74.00	32.88	196	122	Vertical			
4	7440.0000	39.64	36.47	-43.30	32.81	54.00	21.19	235	206	Vertical			
5	9920.0000	31.57	38.38	-39.31	30.64	54.00	23.36	122	26	Vertical			
6	9920.0000	39.92	38.38	-39.31	38.99	74.00	35.01	251	289	Vertical			

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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



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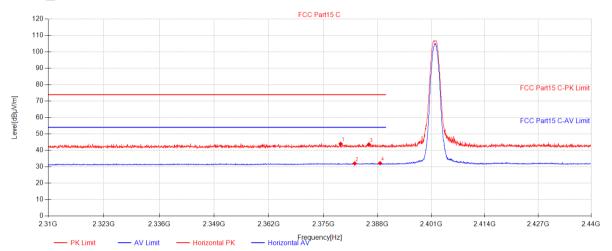
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Restricted bands around fundamental frequency

For Sample #1:

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	2379.16	40.10	27.43	-23.57	43.96	74.00	30.04	175	326	Horizontal			
2	2382.54	28.14	27.43	-23.57	32.00	54.00	22.00	175	326	Horizontal			
3	2385.9633	39.75	27.43	-23.57	43.61	74.00	30.39	175	326	Horizontal			
4	2388.65	28.30	27.43	-23.57	32.16	54.00	21.84	175	326	Horizontal			

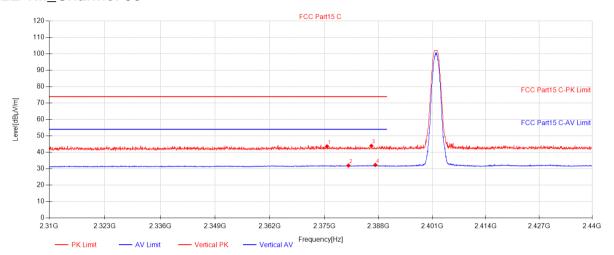




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BLE 1M_Channel 00



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	2375.65	39.76	27.43	-23.57	43.62	74.00	30.38	111	169	Vertical
2	2380.8067	28.07	27.43	-23.57	31.93	54.00	22.07	111	169	Vertical
3	2386.31	40.07	27.43	-23.57	43.93	74.00	30.07	111	169	Vertical
4	2387.2633	28.44	27.43	-23.57	32.30	54.00	21.70	111	169	Vertical

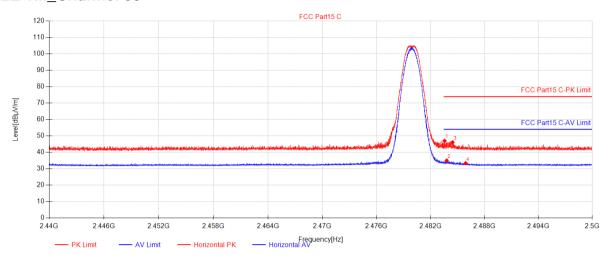




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BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.5675	42.85	27.72	-23.54	47.02	74.00	26.98	166	72	Horizontal			
2	2483.8	30.83	27.72	-23.54	35.00	54.00	19.00	166	72	Horizontal			
3	2484.46	41.96	27.72	-23.54	46.13	74.00	27.87	166	72	Horizontal			
4	2485.9075	29.18	27.72	-23.54	33.36	54.00	20.64	166	72	Horizontal			

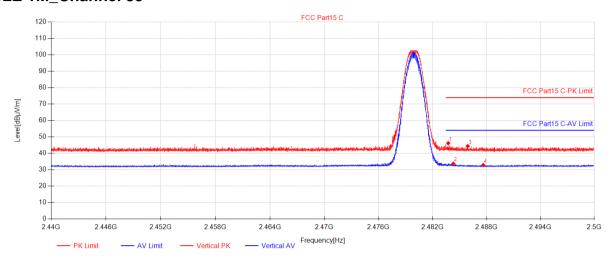




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BLE 1M_Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.7475	41.99	27.72	-23.54	46.16	74.00	27.84	133	90	Vertical		
2	2484.31	29.49	27.72	-23.54	33.66	54.00	20.34	133	90	Vertical		
3	2485.9225	40.21	27.72	-23.54	44.39	74.00	29.61	133	90	Vertical		
4	2487.64	28.62	27.73	-23.54	32.81	54.00	21.19	133	90	Vertical		

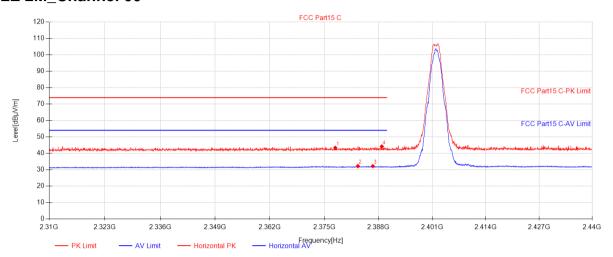




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BLE 2M_Channel 00



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	2377.6433	39.49	27.43	-23.57	43.35	74.00	30.65	155	277	Horizontal		
2	2383.06	28.32	27.43	-23.57	32.18	54.00	21.82	155	277	Horizontal		
3	2386.6567	28.31	27.43	-23.57	32.17	54.00	21.83	155	277	Horizontal		
4	2388.8233	40.31	27.43	-23.57	44.17	74.00	29.83	155	277	Horizontal		

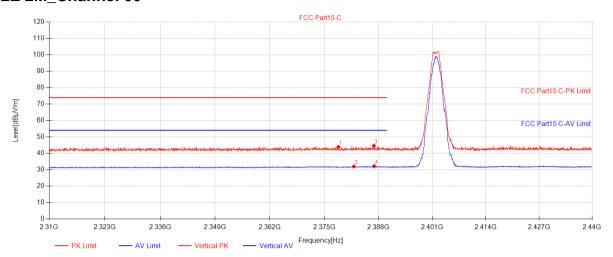




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BLE 2M_Channel 00



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2378.38	40.01	27.43	-23.57	43.87	74.00	30.13	126	328	Vertical		
2	2382.1067	28.11	27.43	-23.57	31.97	54.00	22.03	126	328	Vertical		
3	2386.9167	40.78	27.43	-23.57	44.64	74.00	29.36	126	328	Vertical		
4	2386.96	28.29	27.43	-23.57	32.15	54.00	21.85	126	328	Vertical		

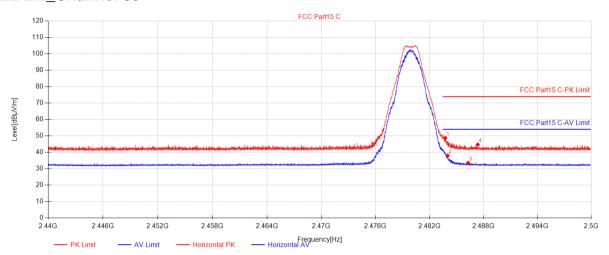




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BLE 2M_Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.7625	44.59	27.72	-23.54	48.76	74.00	25.24	175	314	Horizontal		
2	2484.01	33.80	27.72	-23.54	37.97	54.00	16.03	175	314	Horizontal		
3	2486.2975	29.36	27.72	-23.54	33.54	54.00	20.46	175	314	Horizontal		
4	2487.37	40.55	27.73	-23.54	44.73	74.00	29.27	175	314	Horizontal		

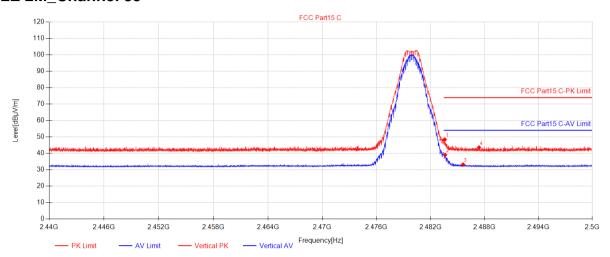




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BLE 2M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.59	44.20	27.72	-23.54	48.37	74.00	25.63	136	106	Vertical			
2	2483.6275	34.88	27.72	-23.54	39.05	54.00	14.95	136	106	Vertical			
3	2485.6225	29.00	27.72	-23.54	33.18	54.00	20.82	136	106	Vertical			
4	2487.4	39.37	27.73	-23.54	43.55	74.00	30.45	136	106	Vertical			





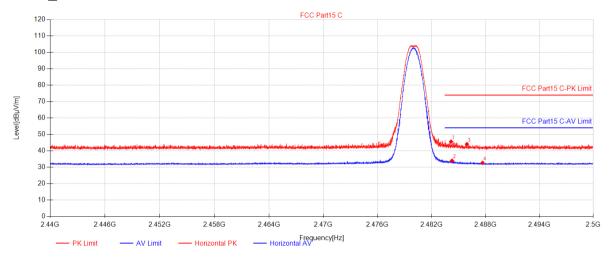
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For Sample #2(Worst):

BLE 1M Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2484.1675	41.44	27.72	-23.54	45.61	74.00	28.39	154	303	Horizontal		
2	2484.28	29.85	27.72	-23.54	34.02	54.00	19.98	154	303	Horizontal		
3	2485.9375	39.92	27.72	-23.54	44.10	74.00	29.90	154	303	Horizontal		
4	2487.685	28.48	27.73	-23.54	32.67	54.00	21.33	154	303	Horizontal		

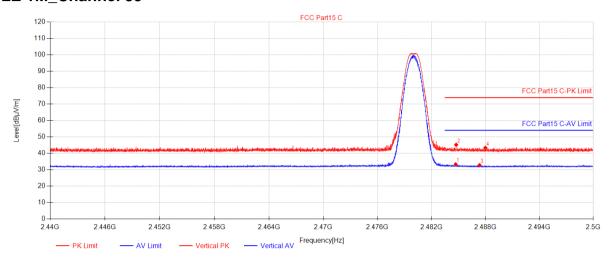




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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2484.685	29.12	27.72	-23.54	33.29	54.00	20.71	169	270	Vertical			
2	2484.745	41.02	27.72	-23.54	45.20	74.00	28.80	169	270	Vertical			
3	2487.3475	28.57	27.73	-23.54	32.75	54.00	21.25	169	270	Vertical			
4	2487.9925	39.15	27.73	-23.54	43.34	74.00	30.66	169	270	Vertical			

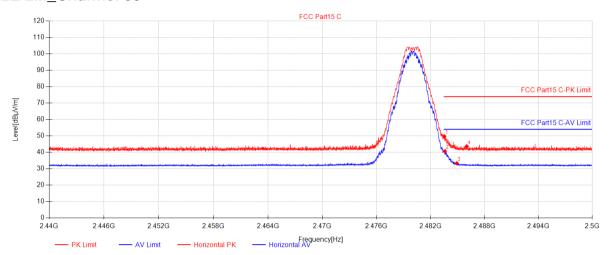




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Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.53	45.60	27.72	-23.54	49.77	74.00	24.23	166	73	Horizontal		
2	2483.59	36.53	27.72	-23.54	40.70	54.00	13.30	166	73	Horizontal		
3	2484.925	29.11	27.72	-23.54	33.29	54.00	20.71	166	73	Horizontal		
4	2486.0275	39.48	27.72	-23.54	43.66	74.00	30.34	166	73	Horizontal		

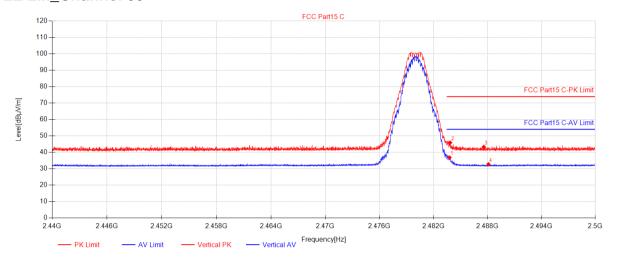




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BLE 2M_Channel 39



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2483.785	32.64	27.72	-23.54	36.81	54.00	17.19	174	116	Vertical		
2	2483.8525	41.70	27.72	-23.54	45.87	74.00	28.13	174	116	Vertical		
3	2487.595	39.11	27.73	-23.54	43.30	74.00	30.70	174	116	Vertical		
4	2488.1125	28.53	27.73	-23.54	32.72	54.00	21.28	174	116	Vertical		

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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