

Report No.: SEWM2212000294RG03
 Rev.: 01
 Page: 1 of 22

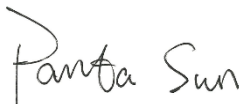
TEST REPORT

Application No: SEWM2212000294RG
Applicant: Sony Corporation
Address of Applicant: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer: Sony Corporation
Address of Manufacturer: 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
EUT Description: BT Sensor
FCC ID: PY7-35141E
Trade Mark: SONY
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2022/11/24
Date of Test: 2022/12/08 to 2022/12/09
Date of Issue: 2022/12/09

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Panta Sun
 Wireless Laboratory Manager



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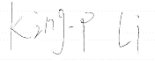
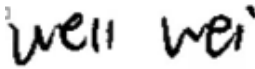
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Report No.: SEWM2212000294RG03

Rev.: 01

Page: 2 of 22

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/12/09		Original

Prepared By		 <hr/> (King-p Li) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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Contents

1	GENERAL INFORMATION	5
1.1	DESCRIPTION OF SUPPORT UNITS	6
1.2	TEST LOCATION.....	6
1.3	TEST FACILITY.....	6
1.4	DEVIATION FROM STANDARDS.....	6
1.5	ABNORMALITIES FROM STANDARD CONDITIONS.....	6
2	EMISSION TEST RESULTS	7
2.1	CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ)	7
2.1.1	<i>E.U.T. Operation</i>	7
2.1.2	<i>Test Setup Procedures</i>	8
2.1.3	<i>Measurement Data</i>	8
2.2	RADIATED EMISSIONS (30MHZ-1GHZ)	11
2.2.1	<i>E.U.T. Operation</i>	11
2.2.2	<i>Test Setup Procedures</i>	12
2.2.3	<i>Measurement Data</i>	12
2.3	RADIATED EMISSIONS (ABOVE 1GHZ).....	15
2.3.1	<i>E.U.T. Operation</i>	15
2.3.2	<i>Test Setup Procedures</i>	16
2.3.3	<i>Measurement Data</i>	16
3	EQUIPMENT LIST	19
4	MEASUREMENT UNCERTAINTY	21
5	PHOTOGRAPHS.....	22
5.1	TEST SETUP.....	22



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1 General Information

Product Name:	BT Sensor		
FCC ID:	PY7-35141E		
Trade Mark:	SONY		
Hardware Version:	A		
Software Version:	0.25		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	Bluetooth	2402~2480	2402~2480
<p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>			



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Adapter	SONY	XQZ-UC1	N/A
USB Cable	SONY	XQZ-UB1	N/A
Charging Case	SONY	QM-SS1C	N/A

Remark: all above the information of table are provided by client.

1.2 Test Location

All tests were performed at:

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

1.3 Test Facility

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

<p>• 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.</p> <p>• 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.</p> <p>• 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</p>

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBμV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT Sensor(Charging Mode)
The worst case for final test:	a: adapter+usb Cable+BT Sensor(Charging Mode)



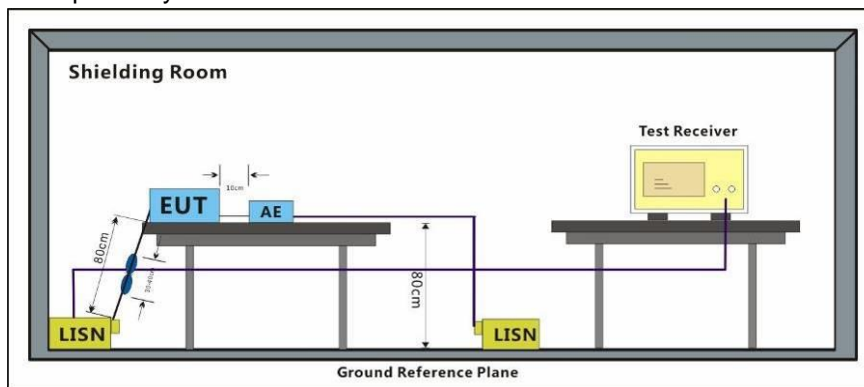
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2.1.2 Test Setup Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



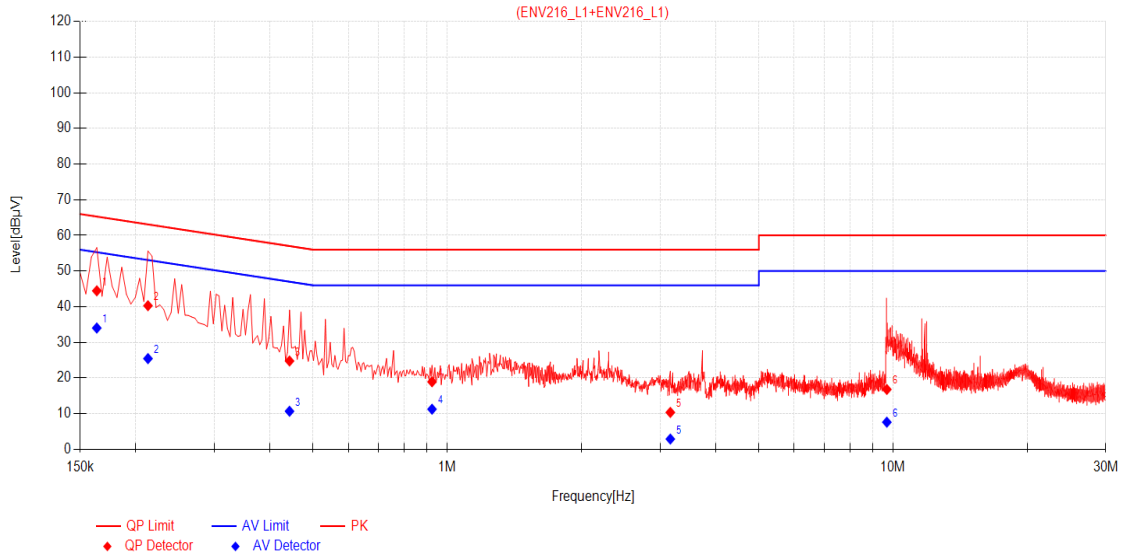
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Final Test Mode:	Mode a	Phase:	Line
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Final Data List											
NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	33.77	44.46	65.28	20.82	23.33	34.02	55.28	21.26	PASS
2	0.2130	10.81	29.48	40.29	63.09	22.80	14.64	25.45	53.09	27.64	PASS
3	0.4425	10.56	14.22	24.78	57.01	32.23	0.12	10.68	47.01	36.33	PASS
4	0.9240	10.57	8.36	18.93	56.00	37.07	0.68	11.25	46.00	34.75	PASS
5	3.1650	10.67	-0.32	10.35	56.00	45.65	-7.78	2.89	46.00	43.11	PASS
6	9.6855	10.64	6.16	16.80	60.00	43.20	-3.03	7.61	50.00	42.39	PASS

Remark:

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

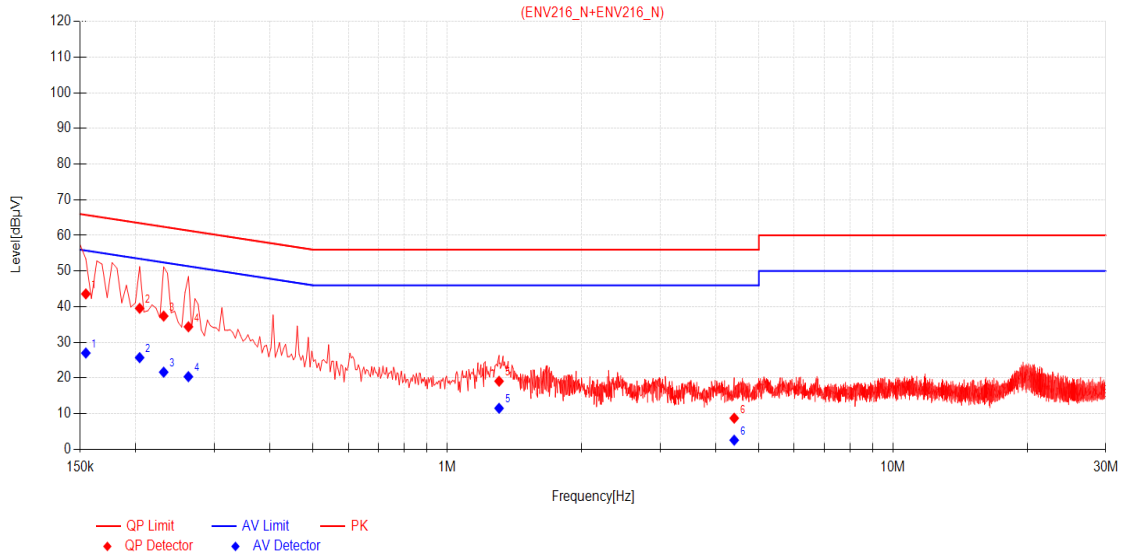


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Final Test Mode:	Mode a	Phase:	Neutral
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Final Data List											
NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.72	32.87	43.59	65.75	22.16	16.29	27.01	55.75	28.74	PASS
2	0.2040	10.67	28.87	39.54	63.45	23.91	15.04	25.71	53.45	27.74	PASS
3	0.2310	10.70	26.67	37.37	62.41	25.04	10.94	21.64	52.41	30.77	PASS
4	0.2625	10.73	23.63	34.36	61.35	26.99	9.65	20.38	51.35	30.97	PASS
5	1.3065	10.78	8.32	19.10	56.00	36.90	0.73	11.51	46.00	34.49	PASS
6	4.4025	10.70	-1.97	8.73	56.00	47.27	-8.14	2.56	46.00	43.44	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[dBµV] – Value[dBµV]



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
960MHz-1000MHz	54.0	Quasi-peak	
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHZ		

2.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT Sensor(Charging Mode)
The worst case for final test:	a: adapter+usb Cable+BT Sensor(Charging Mode)

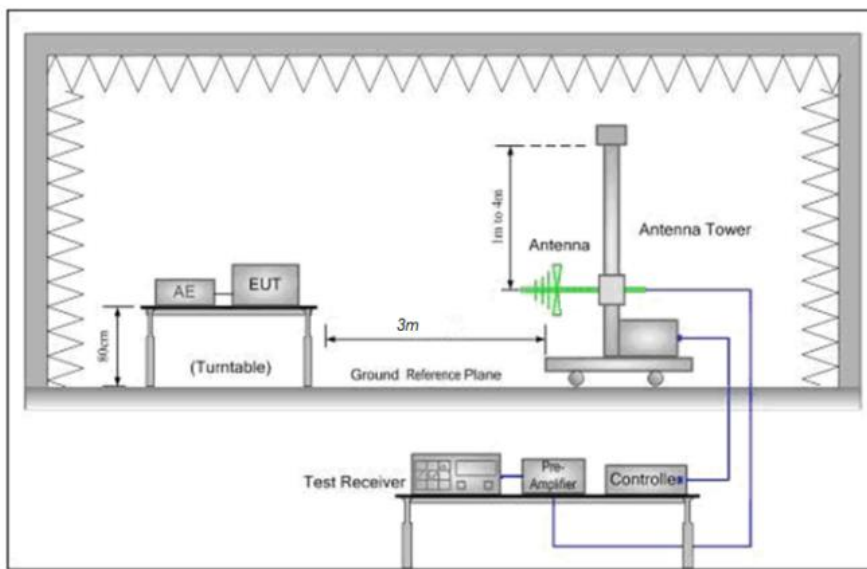


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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, and found the X axis positioning which it is worse case.

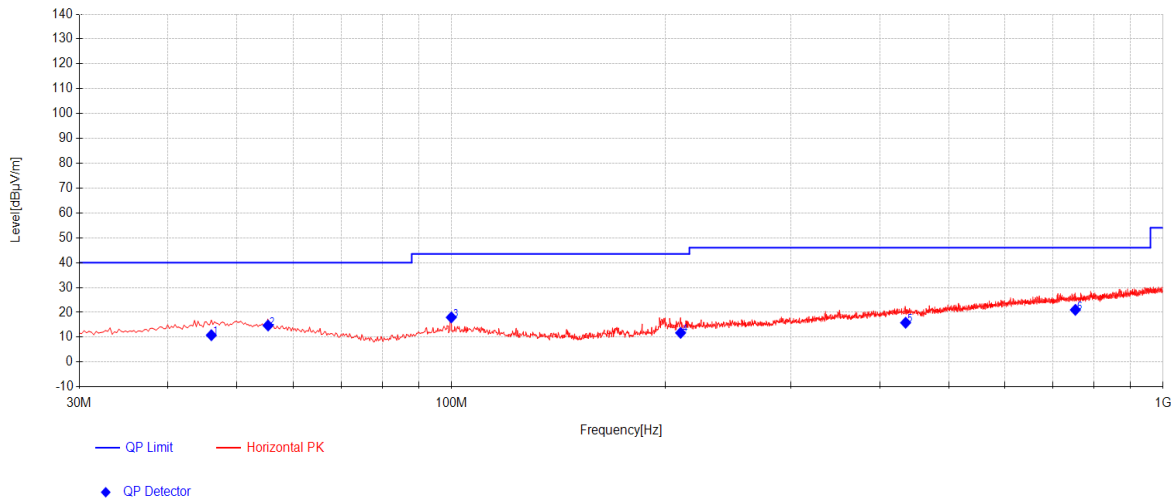


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Final Test Mode:	Mode a	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.0130	25.61	13.24	-28.04	10.81	40.00	29.19	192	1	Horizontal
2	55.2815	29.98	12.55	-27.81	14.72	40.00	25.28	119	312	Horizontal
3	100.0119	34.56	10.78	-27.36	17.98	43.50	25.52	114	153	Horizontal
4	210.0080	27.38	11.04	-26.67	11.75	43.50	31.75	209	293	Horizontal
5	434.8585	24.78	16.04	-24.99	15.83	46.00	30.17	193	264	Horizontal
6	753.0366	24.45	20.29	-23.73	21.01	46.00	24.99	207	151	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

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

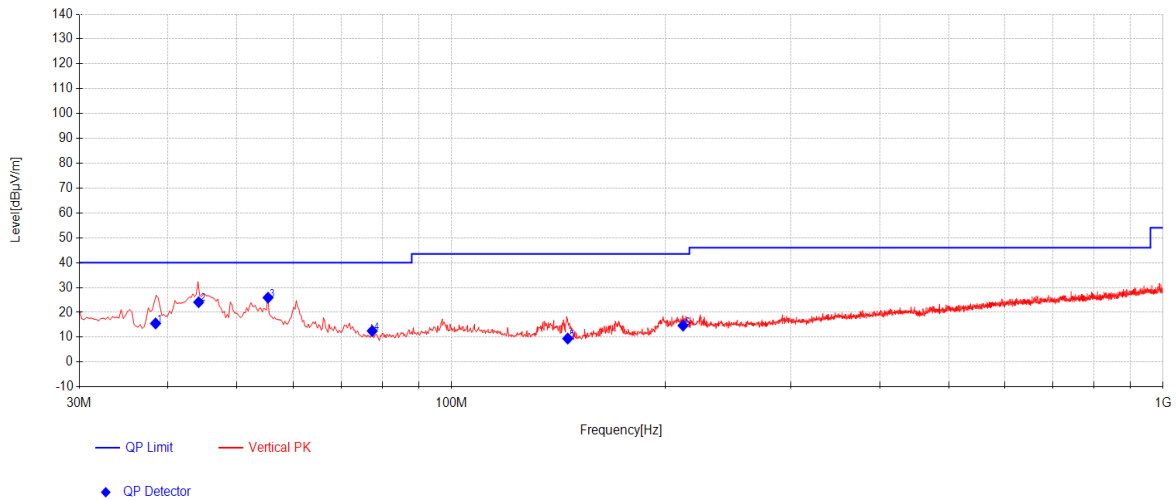
Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode a	Polarization:	Vertical
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Final Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.4168	32.03	11.68	-28.16	15.55	40.00	24.45	106	162	Vertical
2	44.1658	39.23	12.91	-28.05	24.09	40.00	15.91	107	90	Vertical
3	55.2795	41.19	12.55	-27.81	25.93	40.00	14.07	106	237	Vertical
4	77.4262	32.93	7.46	-27.89	12.50	40.00	27.50	211	104	Vertical
5	145.7530	29.53	7.28	-27.34	9.47	43.50	34.03	111	285	Vertical
6	211.6087	30.21	11.10	-26.64	14.67	43.50	28.83	263	5	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

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

Margin = Limit[dBµV/m] -Value[dBµV/m]



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2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBµV/m)	Detector
	Above 1GHz	74 54	Peak Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

2.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT Sensor(Charging Mode)
The worst case for final test:	a: adapter+usb Cable+BT Sensor(Charging Mode)



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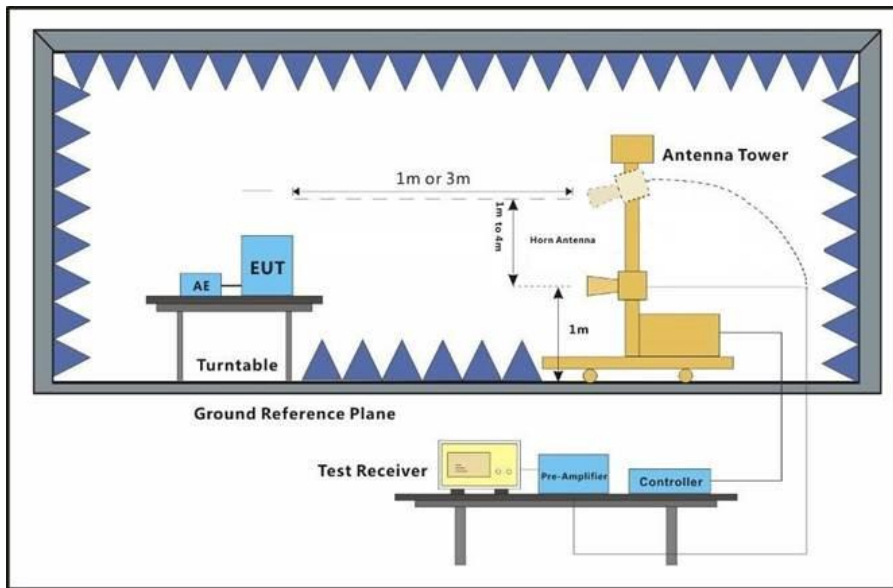
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2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation
(Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.



2.3.3 Measurement Data

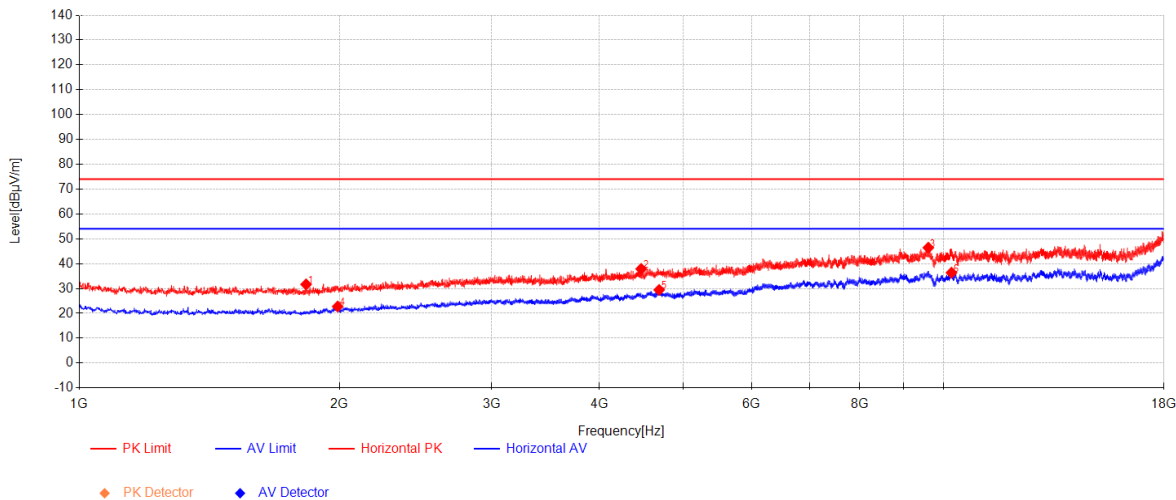
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, and found the X axis positioning which it is worse case.

Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



Final Test Mode:	Mode a	Polarization:	Horizontal
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1830.45	54.21	25.71	31.65	-48.28	74.00	42.35	185	3	Horizontal
2	4469.7	51.32	31.35	37.88	-44.79	74.00	36.12	255	353	Horizontal
3	9606.25	46.01	38.54	46.43	-38.12	74.00	27.57	196	359	Horizontal
4	1991.1	44.00	26.84	22.76	-48.08	54.00	31.24	305	3	Horizontal
5	4689	42.15	31.85	29.44	-44.56	54.00	24.56	205	208	Horizontal
6	10218.25	34.58	38.74	36.35	-36.97	54.00	17.65	165	353	Horizontal

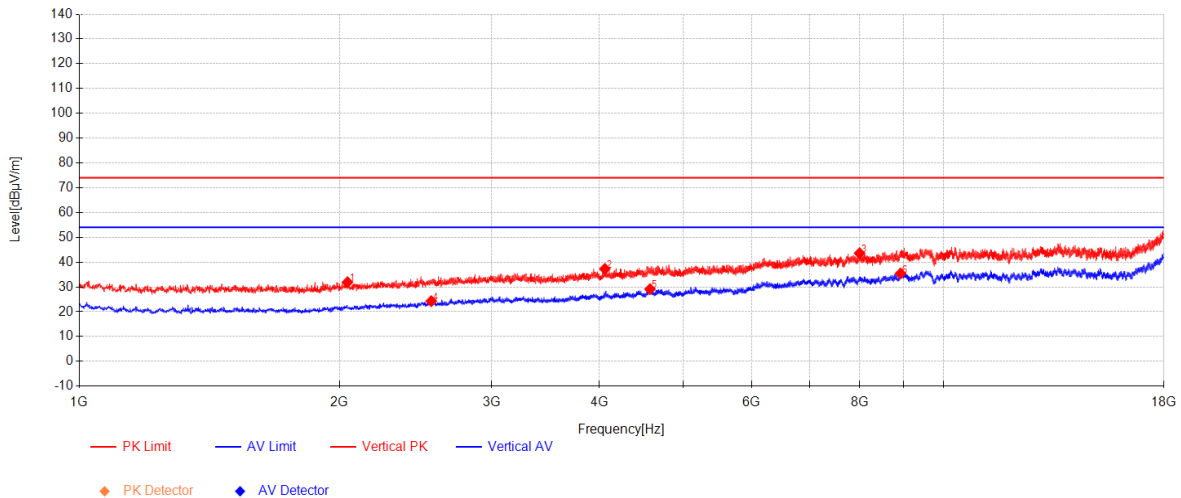
Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode a	Polarization:	Vertical
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2043.8	52.92	26.99	31.92	-47.99	74.00	42.08	205	0	Vertical
2	4057.45	52.04	30.69	37.28	-45.45	74.00	36.72	175	233	Vertical
3	7998.9	47.16	37.50	43.59	-41.07	74.00	30.41	242	233	Vertical
4	2554.65	43.20	28.09	24.27	-47.01	54.00	29.73	165	6	Vertical
5	4575.95	42.20	31.58	29.11	-44.68	54.00	24.89	308	357	Vertical
6	8921.15	36.21	38.51	35.41	-39.32	54.00	18.59	236	153	Vertical

Remark:

1. The Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

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

Margin = Limit[dBµV/m] – Level[dBµV/m]



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3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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
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
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:

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



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Report No.: SEWM2212000294RG03
Rev.: 01
Page: 22 of 22

5 Photographs

5.1 Test Setup

Refer to Appendix A.3 15B Setup Photos for BT Sensor.

---End of Report---



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