

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460006

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TEST REPORT

Application No.: SZCR2412004600AT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

Address of Applicant: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

Manufacturer: Fujian Newland Payment Technology Co.,Ltd.

Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

Equipment Under Test (EUT):

EUT Description: Unattended Terminal

U2000 Model No.: Trade Mark: Newland

FCC ID: 2AM6U-U2000

47 CFR Part 15, Subpart C 15.249 Standard(s):

Date of Receipt: 2024-12-06

2024-12-23 to 2025-01-08 Date of Test:

Date of Issue: 2025-01-14

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2025-01-14		Original	

Authorized for issue by:		
	Dorjon. In ang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass	
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass	
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass	
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass	
20dB Bandwidth		ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass	



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General Information

Details of E.U.T. 4.1

Power supply:	DC 12V from internal rechargeable battery which can be charge by AC/DC adapter
	Adapter model: ADS-25SGP-12
Operation Frequency:	5800MHz to 5870MHz
Modulation Type:	GFSK
Number of Channels:	3
Antenna Type:	Integral Antenna
Antenna Gain:	3.00dBi
Cable Loss (for RF conducted test):	2dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

EUT 1	HDMI is not supported
EUT 2	HDMI is supported

Operation Frequency each of channel			
Channel	Frequency(MHz)		
1	5807		
2	5848.6		
3	5865.6		

4.2 Environment Parameter

1020 mbar Selected V	1020 mbar Selected Values During Tests	
44.5-58.9 % RH Ambient		
Value Temperature(°C)		
20~25	24	
-20	12	
-20	48	
70	12	
70	48	
	44.5-58.9 % RH Ambi Temperature(°C) 20~25 -20 -20 70	

NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions Above 1GHz	± 4.6dB (1GHz-18GHz);± 4.8dB (18MHz-40GHz)
20dB Bandwidth	± 3%

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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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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. Shenzhen EMC laboratory 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.

• FCC -Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13						
EMI Test Receiver	Rohde&Schwarz	z ESR SZ-WRG-M- 047		2024-01-30	2025-01-29						
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05						
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14						
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13						

Field Strength of the Fundamental Signal (15.249(a))											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10						
Signal Analyzer	al Analyzer Rohde & Schwarz		SEM008-04	2024-03-15	2025-03-14						
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22						
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13						
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05						

Restricted Band Around Fundamental Frequency										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10					
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14					
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22					
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05					
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09					
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14					



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Radiated Emissions Below 1GHz												
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date							
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25							
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13							
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22							
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26							
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19							
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A							
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05							

Radiated Emissions Above 1GHz										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10					
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14					
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22					
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05					
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09					
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14					



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RF Conducted Test											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13						
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13						
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05						
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26						
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18						

General used equipment											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23						
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23						
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17						



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

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.

EUT Antenna:

The antenna is a Integrated Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

5800MHz to 5870MHz: 3dBi;*

*Note:

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

Remark:

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Radio Spectrum Matter Test Results 7

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fragues of omission/MU=)	Conducted	limit(dBµV)						
Frequency of emission(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 logarithm of the frequency.								
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz								

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

7.1.2 Test mode bescription									
Pre-scan / Final test	Mode Code	Description							
Final test	18	Charge + TX mode_Keep the EUT1 in charging and transmitting with modulation mode.							
Final test	19	Charge + TX mode_Keep the EUT2 in charging and transmitting with modulation mode.							



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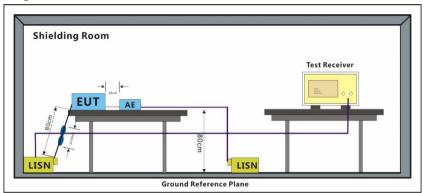
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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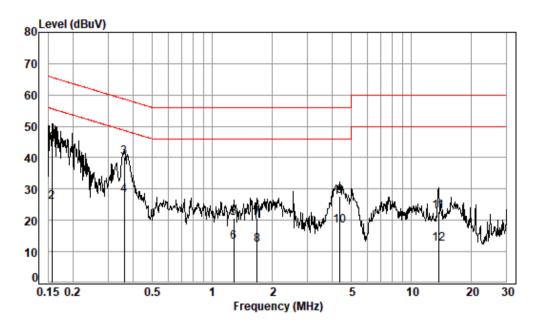


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Test Mode: 18; Line: Live line



: Shielding Room

Condition: Line Job No. : 04600AT

Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.06	10.18	34.61	44.85	65.60	-20.75	QP
2	0.1573	0.06	10.18	15.61	25.85	55.60	-29.75	Average
3 *	0.3615	0.07	9.74	30.24	40.05	58.69	-18.64	QP
4 *	0.3615	0.07	9.74	18.30	28.11	48.69	-20.58	Average
5	1.2824	0.09	9.58	11.09	20.76	56.00	-35.24	QP
6	1.2824	0.09	9.58	3.31	12.98	46.00	-33.02	Average
7	1.6802	0.10	9.58	11.03	20.71	56.00	-35.29	QP
8	1.6802	0.10	9.58	2.50	12.18	46.00	-33.82	Average
9	4.3838	0.12	9.66	17.88	27.66	56.00	-28.34	QP
10	4.3838	0.12	9.66	8.62	18.40	46.00	-27.60	Average
11	13.6228	0.25	9.87	12.78	22.90	60.00	-37.10	QP
12	13.6228	0.25	9.87	2.34	12.46	50.00	-37.54	Average

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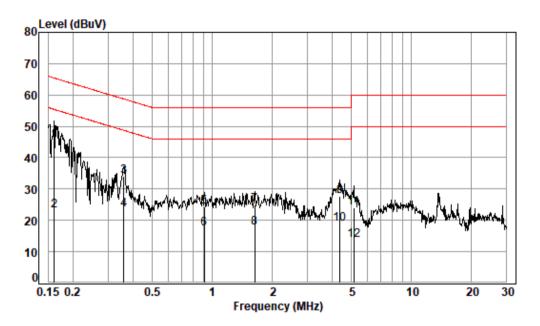


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Test Mode: 18; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04600AT

Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1615	0.06	10.13	35.07	45.26	65.38	-20.12	QP
2	0.1615	0.06	10.13	12.88	23.07	55.38	-32.31	Average
3	0.3596	0.07	9.75	24.30	34.12	58.74	-24.62	QP
4 *	0.3596	0.07	9.75	13.56	23.38	48.74	-25.36	Average
5	0.9136	0.09	9.57	14.68	24.34	56.00	-31.66	QP
6	0.9136	0.09	9.57	7.66	17.32	46.00	-28.68	Average
7	1.6363	0.10	9.55	15.23	24.88	56.00	-31.12	QP
8	1.6363	0.10	9.55	8.12	17.77	46.00	-28.23	Average
9	4.3838	0.12	9.55	18.03	27.70	56.00	-28.30	QP
10	4.3838	0.12	9.55	9.12	18.79	46.00	-27.21	Average
11	5.1390	0.12	9.57	14.39	24.08	60.00	-35.92	QP
12	5.1390	0.12	9.57	4.04	13.73	50.00	-36.27	Average

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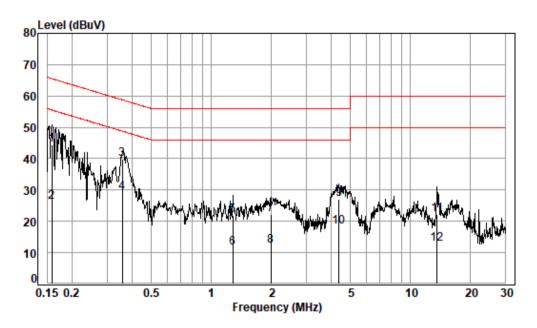


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Test Mode: 19; Line: Live line



: Shielding Room

Condition: Line Job No. : 04600AT

Test mode: 19

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.06	10.18	34.31	44.55	65.52	-20.97	QP
2	0.1590	0.06	10.18	15.80	26.04	55.52	-29.48	Average
3 *	0.3577	0.07	9.74	29.93	39.74	58.78	-19.04	QP
4 *	0.3577	0.07	9.74	19.34	29.15	48.78	-19.63	Average
5	1.2824	0.09	9.58	12.30	21.97	56.00	-34.03	QP
6	1.2824	0.09	9.58	2.01	11.68	46.00	-34.32	Average
7	1.9906	0.10	9.58	12.66	22.34	56.00	-33.66	QP
8	1.9906	0.10	9.58	2.40	12.08	46.00	-33.92	Average
9	4.3606	0.12	9.66	17.36	27.14	56.00	-28.86	QP
10	4.3606	0.12	9.66	8.34	18.12	46.00	-27.88	Average
11	13.5509	0.24	9.86	12.14	22.24	60.00	-37.76	QP
12	13.5509	0.24	9.86	2.57	12.67	50.00	-37.33	Average

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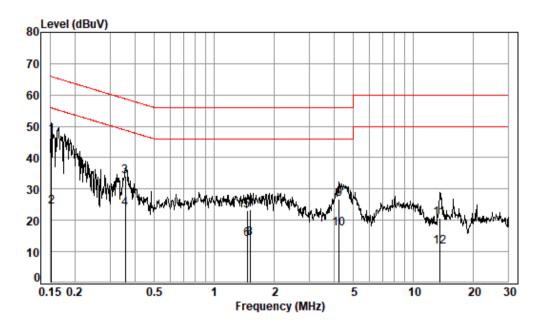


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Test Mode: 19; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04600AT

Test mode: 19

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1524	0.06	10.15	36.84	47.05	65.87	-18.82	QP
2	0.1524	0.06	10.15	14.09	24.30	55.87	-31.57	Average
3	0.3577	0.07	9.75	24.17	33.99	58.78	-24.79	QP
4 *	0.3577	0.07	9.75	14.03	23.85	48.78	-24.93	Average
5	1.4640	0.10	9.55	13.52	23.17	56.00	-32.83	QP
6	1.4640	0.10	9.55	4.31	13.96	46.00	-32.04	Average
7	1.5113	0.10	9.55	13.71	23.36	56.00	-32.64	QP
8	1.5113	0.10	9.55	4.79	14.44	46.00	-31.56	Average
9	4.2242	0.12	9.55	16.96	26.63	56.00	-29.37	QP
10	4.2242	0.12	9.55	7.80	17.47	46.00	-28.53	Average
11	13.4793	0.24	9.78	10.58	20.60	60.00	-39.40	QP
12	13.4793	0.24	9.78	1.52	11.54	50.00	-38.46	Average



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7.2 Field Strength of the Fundamental Signal (15.249(a))

47 CFR Part 15, Subpart C 15.249(a) Test Requirement Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)		
902-928	50	500		
2400-2483.5	50	500		
5725-5875	50	500		
24000-24250	250	2500		

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 57.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

1.2.2 1 C3t W	7.2.2 Test mode bescription											
Pre-scan / Final test	Mode Code	Description										
Pre-scan	16	TX mode_Keep the EUT1 in transmitting with modulation mode.										
Pre-scan	17	TX mode_Keep the EUT2 in transmitting with modulation mode.										
Pre-scan	18	Charge + TX mode_Keep the EUT1 in charging and transmitting with modulation mode.										
Final test	19	Charge + TX mode_Keep the EUT2 in charging and transmitting with modulation mode.										



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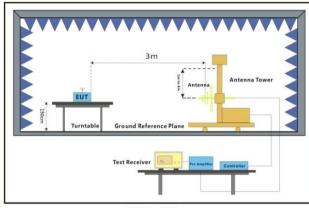
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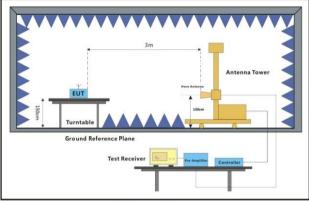


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7.2.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.2.4 Measurement Procedure and Data

- 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 chamber. 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 fully-anechoic chamber. 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 (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.lf the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h.Test the EUT in the lowest channel, the middle 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 the worst case.
- j.Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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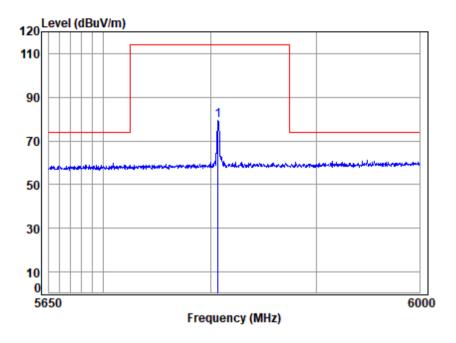


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5807MHz

> Limit Ant Preamp Cable Read 0ver Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5807.000 11.01 33.43 30.58 65.53 79.39 114.00 -34.61 peak



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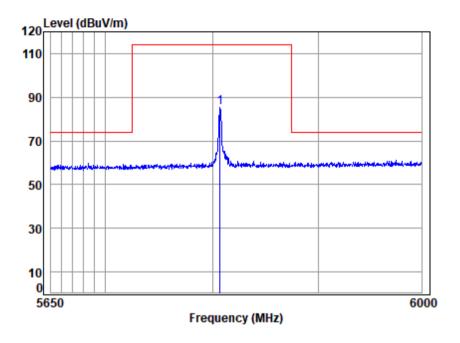


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5807MHz

> Limit Ant Preamp Cable Read 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5807.000 11.01 33.43 30.58 71.36 85.22 114.00 -28.78 peak

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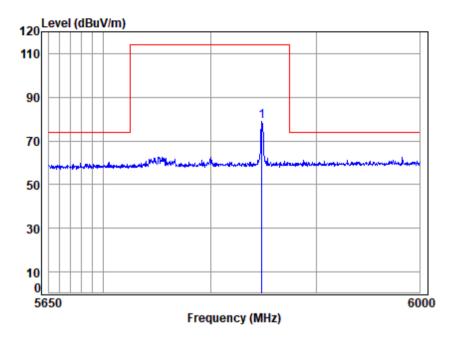


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5848.6MHz

> Limit Cable Ant Preamp Read 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5848.600 10.96 33.59 30.56 65.06 79.05 114.00 -34.95 Peak



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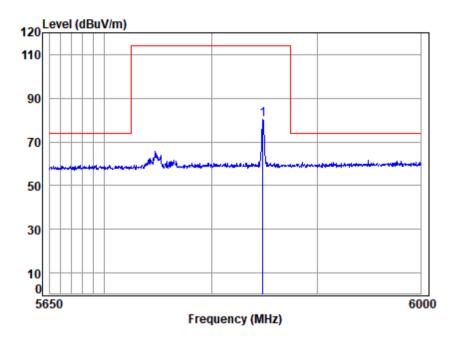


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5848.6MHz

> Limit Cable Ant Preamp Read 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5848.600 10.96 33.59 30.56 66.42 80.41 114.00 -33.59 Peak



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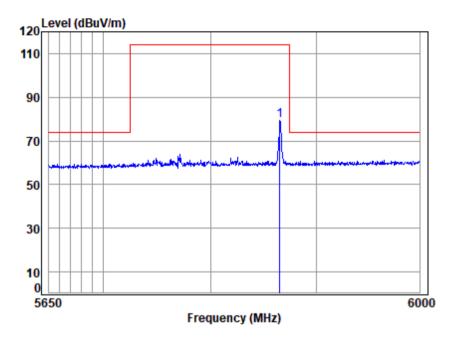


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5865.6MHz

> Limit Cable Ant Preamp Read 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5865.600 10.93 33.57 30.55 65.29 79.24 114.00 -34.76 Peak



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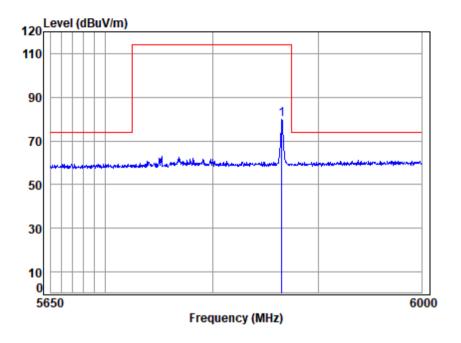


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL

Job No : 04600AT/04601AT

Mode : 5865.6MHz

> Ant Preamp Cable Read Limit 0ver

Loss Factor Factor Limit Remark Freq Level Level Line

MHz dB/m dBuV dBuV/m dBuV/m dB

1 pp 5865.600 10.93 33.57 30.55 65.91 79.86 114.00 -34.14 Peak

Remark:

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

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Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation. So, only the above measurement data were shown in the report.



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7.3 Restricted Band Around Fundamental Frequency

47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark		
30MHz-88MHz	40.0	Quasi-peak Value		
88MHz-216MHz	43.5	Quasi-peak Value		
216MHz-960MHz	46.0	Quasi-peak Value		
960MHz-1GHz	54.0	Quasi-peak Value		
Above 1GHz	54.0	Average Value		
Above 1GHz	74.0	Peak Value		

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209.whichever is the lesser attenuation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Tional Took Initial Decomption											
Pre-scan / Final test	Mode Code	Description									
Pre-scan	16	TX mode_Keep the EUT1 in transmitting with modulation mode.									
Pre-scan	17	TX mode_Keep the EUT2 in transmitting with modulation mode.									
Pre-scan	18	Charge + TX mode_Keep the EUT1 in charging and transmitting with modulation mode.									
Final test	19	Charge + TX mode_Keep the EUT2 in charging and transmitting with modulation mode.									



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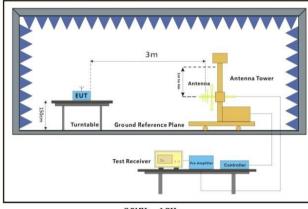
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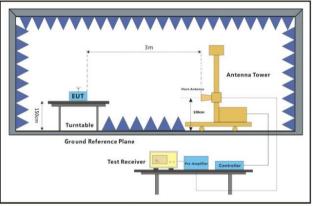


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7.3.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.4 Measurement Procedure and Data

- 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 chamber. The table was rotated 360 degrees to determine the position
- 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 fully-anechoic chamber. 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 (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.
- q. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle 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 the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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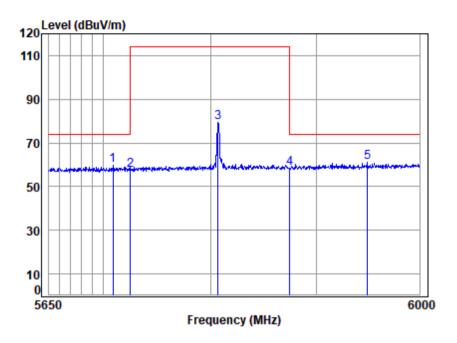


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5807 Band edge

: 5.8G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5709.055								
2	5725.000	10.68	33.25	30.61	44.11	57.43	74.00	-16.57	peak
3	5807.000	11.01	33.43	30.58	65.53	79.39	114.00	-34.61	peak
4	5875.000	10.92	33.55	30.55	44.36	58.28	74.00	-15.72	peak
5 pp	5949.725	10.85	33.60	30.52	47.02	60.95	74.00	-13.05	peak



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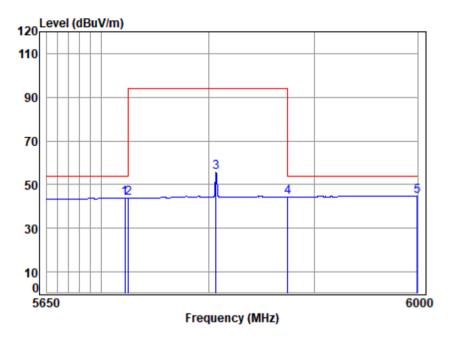


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Report No.: SZCR241200460006

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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5807 Band edge

: 5.8G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5722.109	10.66	33.24	30.61	30.48	43.77	54.00	-10.23	Average
2	5725.000	10.68	33.25	30.61	30.41	43.73	54.00	-10.27	Average
3	5807.000	11.01	33.43	30.58	41.96	55.82	94.00	-38.18	Average
4	5875.000	10.92	33.55	30.55	30.47	44.39	54.00	-9.61	Average
5 pp	5999.639	10.81	33.80	30.50	30.82	44.93	54.00	-9.07	Average



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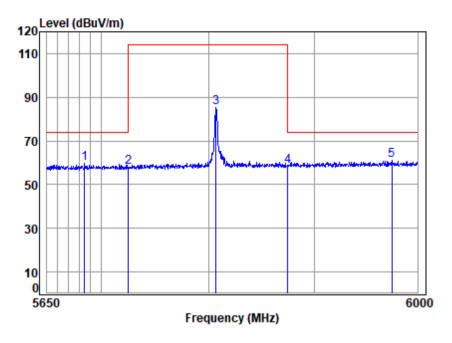


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5807 Band edge

: 5.8G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5684.403								
2	5725.000	10.68	33.25	30.61	44.78	58.10	74.00	-15.90	peak
3	5807.000	11.01	33.43	30.58	71.36	85.22	114.00	-28.78	peak
4	5875.000	10.92	33.55	30.55	44.49	58.41	74.00	-15.59	peak
5 pp	5974.810	10.83	33.70	30.51	46.98	61.00	74.00	-13.00	peak



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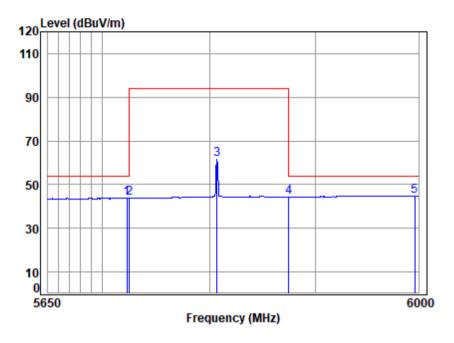


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5807 Band edge

: 5.8G

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5722.797									
5725.000	10.68	33.25	30.61	30.41	43.73	54.00	-10.27	Average	
5807.000	11.01	33.43	30.58	47.79	61.65	94.00	-32.35	Average	
5875.000									
pp 5996.395	10.81	33.79	30.50	30.84	44.94	54.00	-9.06	Average	



2 3 4

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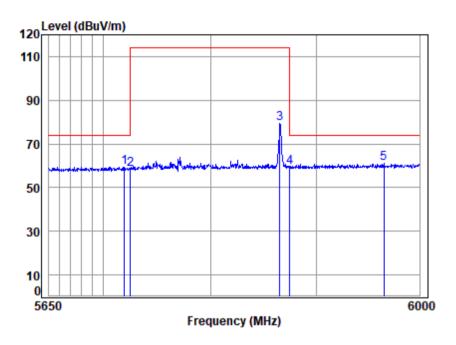


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5865 Band edge

: 5.8G

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		•
	5719.702 5725.000									
}	5865.600									
ļ	5875.000	10.92	33.55	30.55	45.34	59.26	74.00	-14.74	Peak	
р	p 5965.480	10.84	33.66	30.51	47.29	61.28	74.00	-12.72	Peak	



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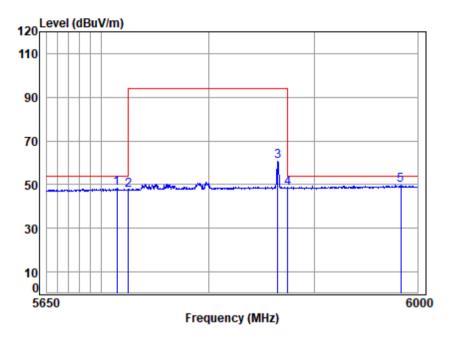


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Test Mode: 19; Polarity: Horizontal;



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5865 Band edge

: 5.8G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5714.548	10.63	33.23	30.61	34.89	48.14	54.00	-5.86	Average
2	5725.000	10.67	33.25	30.61	34.21	47.52	54.00	-6.48	Average
3	5865.600	10.93	33.57	30.55	46.53	60.48	94.00	-33.52	Average
4	5875.000	10.92	33.55	30.55	34.33	48.25	54.00	-5.75	Average
5 pp	5983.794	10.82	33.74	30.51	35.54	49.59	54.00	-4.41	Average



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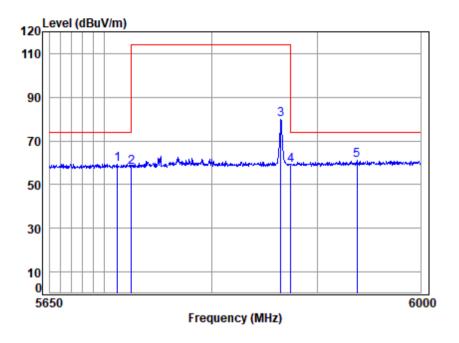


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Report No.: SZCR241200460006

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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5865 Band edge

: 5.8G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5712.144	10.62	33.22	30.62	46.30	59.52	74.00	-14.48	Peak
2	5725.000	10.67	33.25	30.61	44.71	58.02	74.00	-15.98	Peak
3	5865.600	10.93	33.57	30.55	65.91	79.86	114.00	-34.14	Peak
4	5875.000	10.92	33.55	30.55	44.93	58.85	74.00	-15.15	Peak
5 p	p 5938.292	10.86	33.58	30.52	47.00	60.92	74.00	-13.08	Peak



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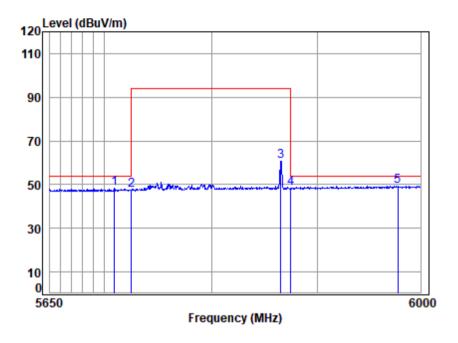


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Test Mode: 19; Polarity: Vertical;



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5865 Band edge

: 5.8G

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5709.398	10.60	33.22	30.62	35.04	48.24	54.00	-5.76	Average
2		5725.000	10.67	33.25	30.61	34.16	47.47	54.00	-6.53	Average
3		5865.600	10.93	33.57	30.55	46.77	60.72	94.00	-33.28	Average
4		5875.000	10.92	33.55	30.55	34.47	48.39	54.00	-5.61	Average
5	pp	5978.042	10.83	33.71	30.51	35.42	49.45	54.00	-4.55	Average



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7.4 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5

Measurement Distance: 10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.4.1 E.U.T. Operation

Operating Environment:

23.6 °C Temperature: Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7 4 2 Test Mode Description

7.4.2 TESLIV	.4.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Pre-scan	16	TX mode_Keep the EUT1 in transmitting with modulation mode.							
Pre-scan	17	TX mode_Keep the EUT2 in transmitting with modulation mode.							
Final test	18	Charge + TX mode_Keep the EUT1 in charging and transmitting with modulation mode.							
Final test	19	Charge + TX mode_Keep the EUT2 in charging and transmitting with modulation mode.							



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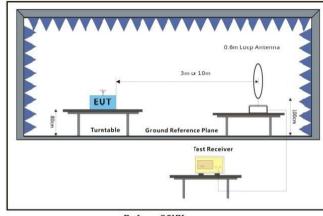
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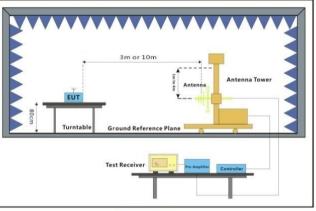


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7.4.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- 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 the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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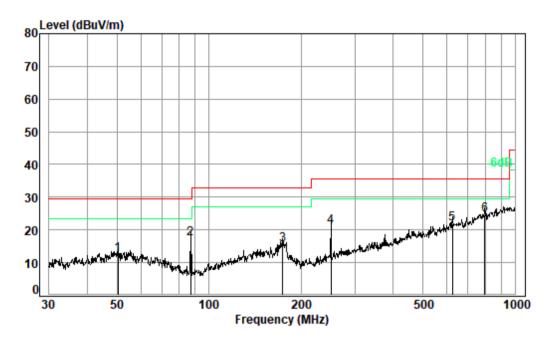


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Test Mode: 18; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT

Test Mode: 18 : EUT1

1

3 4 5

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
	50.409	26.15	18.23	0.54	32.50	12.42	29.50	-17.08	QP
	87.112	37.07	11.98	0.71	32.44	17.32	29.50	-12.18	QP
	174.424	30.25	16.62	1.05	32.50	15.42	33.00	-17.58	QP
	250.301	36.31	15.91	1.30	32.45	21.07	35.60	-14.53	QP
	625.078	27.99	24.59	2.16	32.75	21.99	35.60	-13.61	QP
an	796 183	27 89	26 59	2 /12	32 22	24 74	35 60	_10 86	OΡ



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZO	3M HORIZONTAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB				
50.409	12.42	4.18	13.93	22.88	40.00	-17.12	QP			
87.112	17.32	7.35	24.48	27.78	40.00	-12.22	QP			
174.424	15.42	5.90	19.67	25.88	43.50	-17.62	QP			
250.301	21.07	11.31	37.70	31.53	46.00	-14.47	QP			
625.078	21.99	12.57	41.92	32.45	46.00	-13.55	QP			
796.183	24.74	17.26	57.53	35.20	46.00	-10.80	QP			



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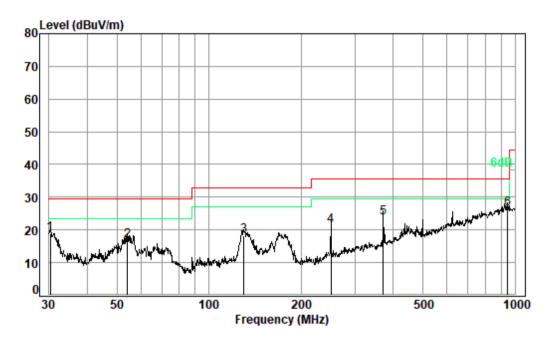


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Test Mode: 18; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode: 18 : EUT1

> 1 2

> > 3

4

5

Read Ant Cable Preamp Limit 0ver Freq Level Factor Loss Factor Line Limit Remark Level MHz dB dBuV/m dBuV/m dBuV dB/m dB 30.317 35.43 15.48 0.42 32.50 18.83 29.50 -10.67 QP 54.071 30.59 18.06 0.56 32.49 16.72 29.50 -12.78 QP 129.923 33.55 16.25 0.87 32.50 18.17 33.00 -14.83 OP 250.301 36.42 15.91 1.30 32.45 21.18 35.60 -14.42 QP 370.702 35.52 19.14 1.60 32.40 23.86 35.60 -11.74 QP 6 pp 945.440 27.23 27.92 2.67 31.48 26.34 35.60 -9.26 OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance.

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTIC	3M VERTICAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	z dBuV/m 10m (uV/m) 3m (uV/m)		dBuV/m	dBuV/m	dB					
30.317	18.83	8.74	29.13	29.29	40.00	-10.71	QP			
54.071	16.72	6.85	22.85	27.18	40.00	-12.82	QP			
129.923	18.17	8.10	27.00	28.63	43.50	-14.87	QP			
250.301	21.18	11.46	38.18	31.64	46.00	-14.36	QP			
370.702	23.86	15.60	51.99	34.32	46.00	-11.68	QP			
945.440	26.34	20.75	69.16	36.80	46.00	-9.20	QP			



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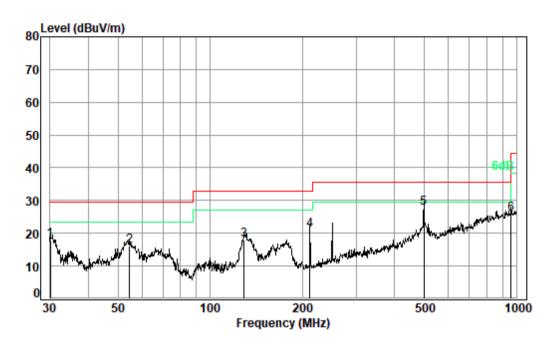


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Test Mode: 19; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode: 19 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
4	20 405	24.65	45 44	0.42	22 50	47.00	20 50	44 50	OD
1	30.105	34.65	15.41	0.42	32.50	17.98	29.50	-11.52	٧p
2	54.643	29.97	17.97	0.56	32.48	16.02	29.50	-13.48	QP
3	129.015	33.42	16.17	0.87	32.50	17.96	33.00	-15.04	QP
4	211.527	38.11	14.06	1.18	32.49	20.86	33.00	-12.14	QP
5 pp	499.425	36.70	21.87	1.85	32.70	27.72	35.60	-7.88	QP
6	962.162	26.67	27.94	2.68	31.36	25.93	44.40	-18.47	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M VERTIC	3M VERTICAL								
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark		
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB			
30.105	17.98	7.93	26.42	28.44	40.00	-11.56	QP		
54.643	16.02	6.32	21.08	26.48	40.00	-13.52	QP		
129.015	17.96	7.91	26.36	28.42	43.50	-15.08	QP		
211.527	20.86	11.04	36.80	31.32	43.50	-12.18	QP		
499.425	27.72	24.32	81.07	38.18	46.00	-7.82	QP		
962.162	25.93	19.79	65.97	36.39	54.00	-17.61	QP		



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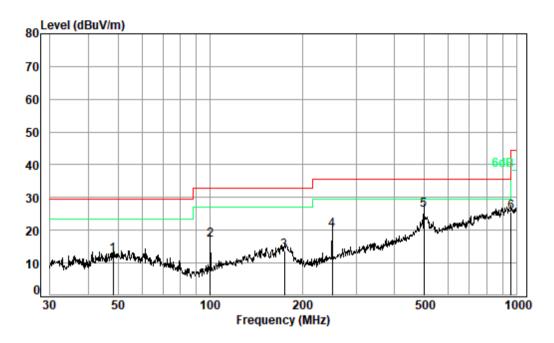


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Test Mode: 19; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT

Test Mode: 19 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.163	26.36	17.97	0.53	32.50	12.36	29.50	-17.14	QP
2	100.229	35.50	13.21	0.75	32.50	16.96	33.00	-16.04	QP
3	175.037	28.59	16.56	1.05	32.50	13.70	33.00	-19.30	QP
4	250.301	35.41	15.91	1.30	32.45	20.17	35.60	-15.43	QP
5 pp	499.425	35.10	21.87	1.85	32.70	26.12	35.60	-9.48	QP
6	958.794	26.41	27.96	2.68	31.39	25.66	35.60	-9.94	OP .



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

3M HORIZO	3M HORIZONTAL									
Frequency Level @ 10r		Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB				
48.163	12.36	4.15	13.83	22.82	40.00	-17.18	QP			
100.229	16.96	7.05	23.49	27.42	43.50	-16.08	QP			
175.037	13.70	4.84	16.14	24.16	43.50	-19.34	QP			
250.301	20.17	10.20	33.99	30.63	46.00	-15.37	QP			
499.425	26.12	20.23	67.43	36.58	46.00	-9.42	QP			
958.794	25.66	19.19	63.96	36.12	46.00	-9.88	QP			



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7.5 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.5.1 E.U.T. Operation

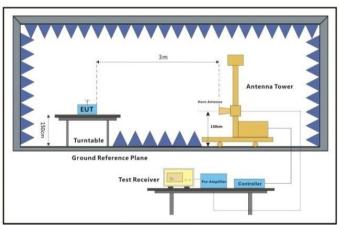
Operating Environment:

Temperature: 23.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

	102 1001 11000 2000 1511011									
Pre-scan / Final test	Mode Code	Description								
Pre-scan	16	TX mode_Keep the EUT1 in transmitting with modulation mode.								
Pre-scan	17	TX mode_Keep the EUT2 in transmitting with modulation mode.								
Pre-scan	18	Charge + TX mode_Keep the EUT1 in charging and transmitting with modulation mode.								
Final test	19	Charge + TX mode_Keep the EUT2 in charging and transmitting with modulation mode.								

7.5.3 Test Setup Diagram



Above 1GHz



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7.5.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- 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 the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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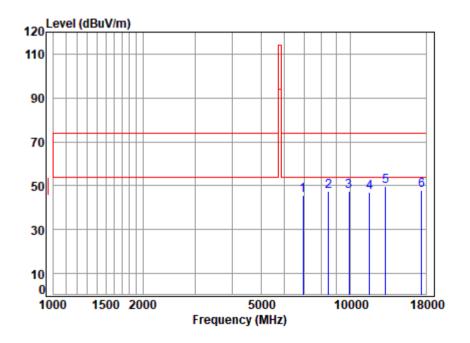


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Test Mode: 19; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5807 TX RSE

: 5.8G

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6944.911	11.37	36.11	56.71	54.65	45.42	74.00	-28.58	peak
2	8462.222	12.05	38.38	55.48	52.41	47.36	74.00	-26.64	Peak
3	9899.373	12.80	38.89	54.19	49.87	47.37	74.00	-26.63	peak
4	11614.000	14.67	39.59	53.68	46.43	47.01	74.00	-26.99	peak
5	pp13179.850	15.65	40.22	54.48	48.30	49.69	74.00	-24.31	peak
6	17421.000	18.20	40.51	54.38	43.67	48.00	74.00	-26.00	peak



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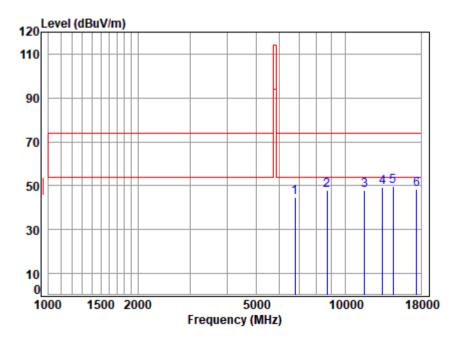


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Test Mode: 19; Polarity: Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5807 TX RSE

: 5.8G

. 5.00										
	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	6763.404	11.38	35.75	56.75	54.46	44.84	74.00	-29.16	peak	
2	8698.174	12.09	38.59	55.27	52.32	47.73	74.00	-26.27	peak	
3	11614.000	14.67	39.59	53.68	47.30	47.88	74.00	-26.12	peak	
4	13369.140	16.10	40.30	54.46	47.51	49.45	74.00	-24.55	peak	
5	pp14518.930	16.92	39.46	54.35	47.50	49.53	74.00	-24.47	peak	
6	17421.000	18.20	40.51	54.38	44.24	48.57	74.00	-25.43	peak	



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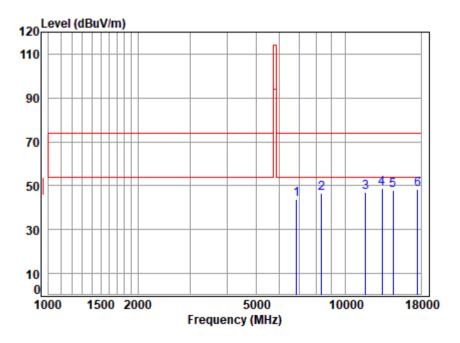


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Test Mode: 19; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5848.6 TX RSE

: 5.8G

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
L	6860.542	11.37	36.04	56.73	53.16	43.84	74.00	-30.16	peak
)	8325.429	11.73	38.31	55.61	52.03	46.46	74.00	-27.54	peak
3	11697.200	14.72	39.52	53.70	46.36	46.90	74.00	-27.10	peak
ļ	pp13328.360	16.36	40.30	54.47	46.47	48.66	74.00	-25.34	peak
,	14504.150	17.05	39.49	54.35	45.84	48.03	74.00	-25.97	peak
5	17545.800	18.75	40.76	54.40	43.44	48.55	74.00	-25.45	peak



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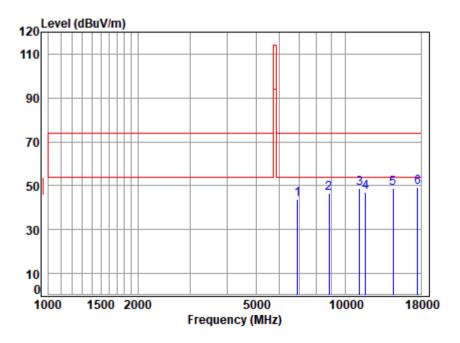


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Test Mode: 19; Polarity: Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5848.6 TX RSE

: 5.8G

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6902.598	11.37	36.19	56.72	52.78	43.62	74.00	-30.38	peak
2	8805.143	12.25	38.50	55.18	50.98	46.55	74.00	-27.45	peak
3	11175.020	14.74	39.58	53.55	48.01	48.78	74.00	-25.22	peak
4	11697.200	14.72	39.52	53.70	46.62	47.16	74.00	-26.84	peak
5	14504.150	17.05	39.49	54.35	46.59	48.78	74.00	-25.22	peak
6	pp17545.800	18.75	40.76	54.40	44.13	49.24	74.00	-24.76	peak



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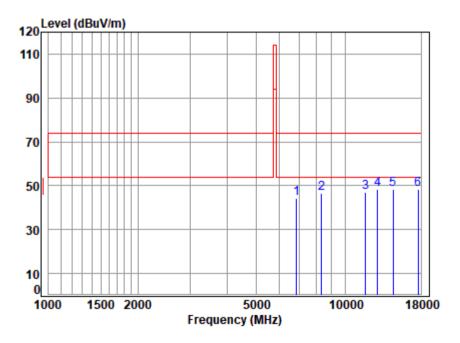


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Test Mode: 19; Polarity: Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5865.6 TX RSE

: 5.8G

		•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6853.557	11.37	36.01	56.73	53.63	44.28	74.00	-29.72	peak
2	8333.913	11.72	38.44	55.60	52.20	46.76	74.00	-27.24	peak
3	11731.200	14.69	39.53	53.72	46.45	46.95	74.00	-27.05	peak
4	pp12835.400	15.55	40.34	54.38	47.03	48.54	74.00	-25.46	peak
5	14504.150	17.05	39.49	54.35	46.20	48.39	74.00	-25.61	peak
6	17596.800	19.76	40.32	54.42	42.80	48.46	74.00	-25.54	peak



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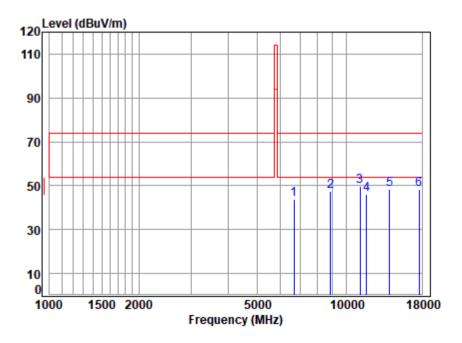


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Test Mode: 19; Polarity: Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5865.6 TX RSE

: 5.8G

	•							
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
6674.438	11.46	35.45	56.77	53.69	43.83	74.00	-30.17	peak
8868.147	12.23	38.54	55.12	51.59	47.24	74.00	-26.76	peak
pp11140.930	14.70	39.54	53.54	49.14	49.84	74.00	-24.16	peak
11731.200	14.69	39.53	53.72	45.59	46.09	74.00	-27.91	peak
14024.730	16.50	39.90	54.40	46.23	48.23	74.00	-25.77	peak
17596.800	19.76	40.32	54.42	42.52	48.18	74.00	-25.82	peak



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7.6 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

7.6.1 E.U.T. Operation

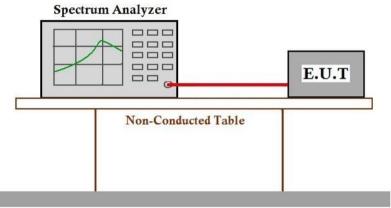
Operating Environment:

23.2 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 48.1 % RH

7.6.2 Test Mode Description

		ou.po
Pre-scan /	Mode	Description
Final test	Code	
Final test	18	TX mode Keep the EUT in transmitting with modulation mode.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Test Frequency	20dB bandwidth (kHz)	Results
Lowest	795.4	Pass
Middle	808.4	Pass
Highest	787.3	Pass



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5807MHz



5848.6MHz





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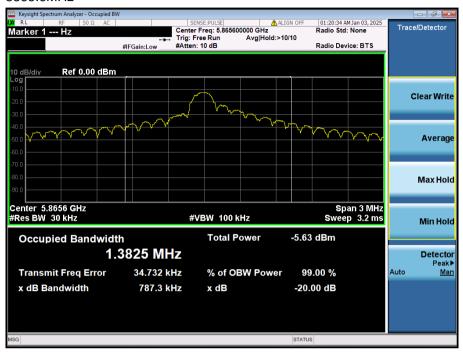


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5865.6MHz





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Test Setup Photo 8

Please refer to SZCR2412004600Appendix_WLAN Setup Photo

9 **EUT Constructional Details (EUT Photos)**

Please refer to SZCR2412004600 Appendix_External Photo and Internal Photo.

- End of the Report -



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