

TEST REPORT

Application No.: SZCR2601000401ME
Applicant: NormaTec Industries LP
Address of Applicant: 480 Pleasant St, Watertown, Massachusetts, 02472 United States
Manufacturer: NormaTec Industries, LP
Address of Manufacturer: 480 Pleasant St. Watertown, MA 02472, USA
Factory: 1. Ryder Electronics (Xinfeng) Ltd.
 2. Ryder Industries Vietnam Co. Ltd.
Address of Factory: 1. Shuidong Ave(E), Xinfeng Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province, China
 2. Lot C.II.II-1, Road No. 9, Long Thanh Industrial Zone, An Phuoc Commune, Dong Nai Province, Vietnam

Equipment Under Test (EUT):

EUT Name: Normatec Elite Heat
Model No.: PRO26-SH, PRO26-ST, PRO26-TL, PRO26-PH, PRO26-PS, PRO26-PT ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



FCC ID: 2AY3Y-PRO
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2026-01-27
Date of Test: 2026-01-30 to 2026-03-06
Date of Issue: 2026-03-08, Amendment 01:2026-05-15

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

This report supersedes our previous report SZCR260100040103, issued on 2026-03-08, which is hereby deemed null and void.

Keny Xu
 Keny Xu
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-03-08		Original
02		2026-05-15		Updated the Declaration of EUT Family Grouping in section 2

Authorized for issue by:				
		Edison Li		
		Edison Li/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.231	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)	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.231(c)	Pass
Dwell Time (15.231(a)(2))		ANSI C63.10 (2020) Section 7.4	47 CFR Part 15, Subpart C 15.231(a)(2)	Pass
Field Strength of the Fundamental Signal (15.231(b))		ANSI C63.10 (2020) Section 6.5	Field Strength of the Fundamental Signal (15.231(b))	Pass
Radiated Emissions below 1GHz		ANSI C63.10 (2020) Section 6.4&6.5	47 CFR Part 15C Section 15.231(b) and 15.209	Pass
Radiated Emissions above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15C Section 15.231(b) and 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: PRO26-SH, PRO26-ST, PRO26-TL, PRO26-PH, PRO26-PS, PRO26-PT

Only the model PRO26-ST was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model No., HVIN and Boot sizes.

Below are the specific differences between the models as declared by the customer:

Model Number	HVIN	Boot Dimension (length * width)
PRO26-SH	P1.1	855*345 mm
PRO26-ST	P1.2	1026*394 mm
PRO26-TL	P1.3	1172*443 mm
PRO26-PH	P1.4	830*428 mm
PRO26-PS	P1.5	1026*478 mm
PRO26-PT	P1.6	1160*507 mm



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In addition, below is the list of model configuration variations as declared by the customer; the items ticked in the table represent the worst-case configurations for RF test.

Component	Manufacturer	Type	Specification	Selected configuration
Power adapter	Guangdong Mingxin Power Technologies Co., Ltd.	MX200D-20010000	Input: 100-240V AC, 2.5A, 50/60Hz; Output: 20 V DC, 10A, 40°C	√
	GOLDEN PROFIT ELECTRONICS LTD	GPE330C-2001000-D	Input: 100-240V AC, 5A-2.5A, 50/60Hz; Output: 20 V DC, 10A, 40°C	
Internal battery	Shenzhen BetterPower Battery Co., Ltd.	BPI 21700 4S1P	14.4V, 5000mAh	
	Guangdong Yungbang New Energy Co., LTD	INR21700_4S1P_14.4V_4900mAh	14.4V, 4900mAh	√
Solenoid Valve	Shenzhen Wei Shengtai Electronics Co., Ltd.	WQF813202401	DC 24V	√
	Dongguan Jing Bofang Precision Electronics Co., Ltd.	JQF1320-24A	DC 24V	
Air compressor	Shenzhen Wei Shengtai Electronics Co., Ltd.	WQB30352401ZW	DC 24V, Flow rate: ≥ 6 L/min, Pressure: >80 kPa	√
	Dongguan Jing Bofang Precision Electronics Co., LTD	JFB095-24B	DC 24V, Flow rate: ≥ 6 L/min, Pressure: ≥ 80 kPa	
Heating Film for all models	Guangdong HGT New Materials Co., Ltd.	HGT-FRB-14.4V-80W	Zone 1: $11.8 \pm 10\% \Omega$ Zone 2: $40.91 \pm 10\% \Omega$ Zone 3: $18.66 \pm 10\% \Omega$ Zone 4: $10.35 \pm 10\% \Omega$ Zone 5: $7.98 \pm 10\% \Omega$	√
	Shenzhen Xiniu Industrial Co., Ltd	XN-Heat FRM-14.4V	Zone 1: $11.8 \pm 10\% \Omega$ Zone 2: $40.91 \pm 10\% \Omega$ Zone 3: $18.66 \pm 10\% \Omega$ Zone 4: $10.35 \pm 10\% \Omega$ Zone 5: $7.98 \pm 10\% \Omega$	



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 14.4V rechargeable battery which charged by AC adapter AC/DC Adapter1 Model: MX200D-20010000 Input: AC 100-240V, 50/60Hz, 2.5A Output: DC 20.0V, 10.0A, 200.0W Medical AC Adapter2 Model: GPE330C-2001000-D Input: AC 100-240V, 50/60Hz, 5A-2.5A Output: DC 20.0V, 10.0A, 200.0W Max Note: Both adapters were tested; this report shows only the worst test result(AC/DC Adapter1).
Cable(s):	AC cable:140cm unshielded
Operation Frequency	433.92MHz
Channel Numbers:	1
Modulation Type:	GFSK
Antenna Gain:	-3.43dBi
Antenna Type:	Helical Antenna

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.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF Cable	SGS	N/A(cable loss:0.6dB)	N/A



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3\%$
20dB Bandwidth	3%
Dwell Time (15.231(a2))	$\pm 3\%$
Field Strength of the Fundamental Signal (15.231(e))	$\pm 6.0\text{dB}$
Radiated Emissions below 1GHz	$\pm 6.0\text{dB}$
Radiated Emissions above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

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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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Spectrum Analyzer(9kHz-30GHz)	Rohde & Schwarz	FSP30	SEM004-06	2025/9/10	2026/9/9
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02

Dwell Time (15.231(a)(2))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Spectrum Analyzer(9kHz-30GHz)	Rohde & Schwarz	FSP30	SEM004-06	2025/9/10	2026/9/9
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02



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Field Strength of the Fundamental Signal (15.231(b))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-12-16	2026-12-15
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-12-16	2026-12-15
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-12-16	2026-12-15
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2025-12-13	2026-12-12
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2025-12-13	2026-12-12
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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6 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -3.43dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Test Engineer: Mason Wu

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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: 20.3 °C

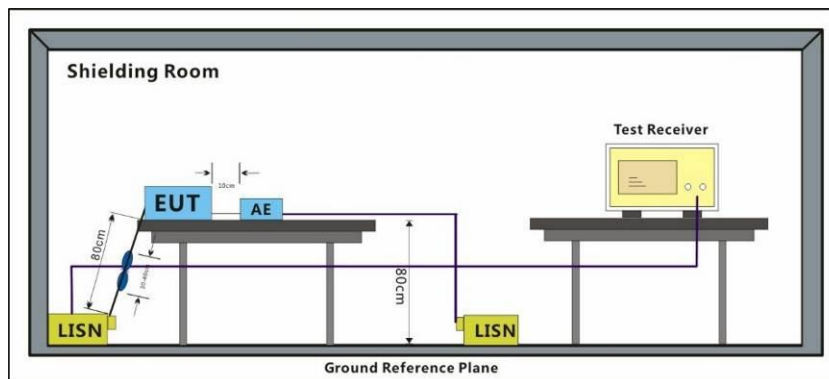
Humidity: 42.4 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.

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/50μH + 50hm 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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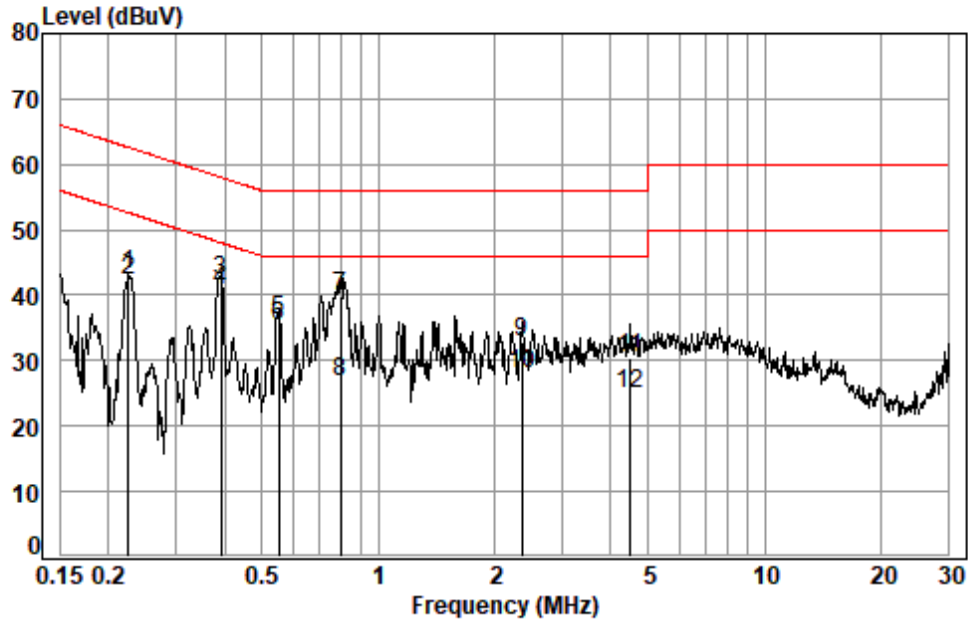
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Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00401ME/00402ME
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2256	0.07	9.63	33.35	43.05	62.61	-19.56	QP
2	0.2256	0.07	9.63	32.56	42.26	52.61	-10.35	Average
3 *	0.3914	0.09	9.63	32.41	42.13	58.03	-15.90	QP
4 *	0.3914	0.09	9.63	30.96	40.68	48.03	-7.35	Average
5	0.5523	0.09	9.64	26.59	36.32	56.00	-19.68	QP
6	0.5523	0.09	9.64	25.57	35.30	46.00	-10.70	Average
7	0.8002	0.10	9.65	30.22	39.97	56.00	-16.03	QP
8	0.8002	0.10	9.65	16.89	26.64	46.00	-19.36	Average
9	2.3585	0.13	9.76	23.04	32.93	56.00	-23.07	QP
10	2.3585	0.13	9.76	18.23	28.12	46.00	-17.88	Average
11	4.5015	0.14	9.94	20.44	30.52	56.00	-25.48	QP
12	4.5015	0.14	9.94	14.84	24.92	46.00	-21.08	Average



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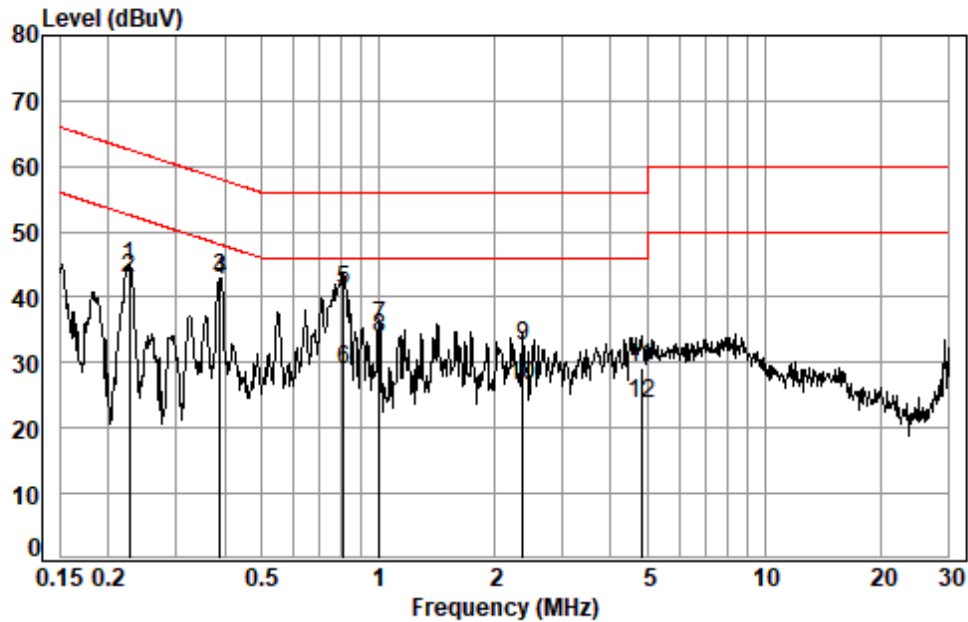
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Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00401ME/00402ME
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2268	0.07	9.65	34.92	44.64	62.57	-17.93	QP
2	0.2268	0.07	9.65	33.29	43.01	52.57	-9.56	Average
3	0.3893	0.09	9.63	33.31	43.03	58.08	-15.05	QP
4 *	0.3893	0.09	9.63	32.91	42.63	48.08	-5.45	Average
5 *	0.8131	0.10	9.65	31.26	41.01	56.00	-14.99	QP
6	0.8131	0.10	9.65	19.04	28.79	46.00	-17.21	Average
7	1.0050	0.11	9.66	25.93	35.70	56.00	-20.30	QP
8	1.0050	0.11	9.66	24.05	33.82	46.00	-12.18	Average
9	2.3710	0.13	9.76	22.56	32.45	56.00	-23.55	QP
10	2.3710	0.13	9.76	16.59	26.48	46.00	-19.52	Average
11	4.7969	0.14	9.99	19.13	29.26	56.00	-26.74	QP
12	4.7969	0.14	9.99	13.67	23.80	46.00	-22.20	Average



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7.2 20dB Bandwidth

Test Requirement: 47 CFR Part 15, Subpart C 15.231(c)
 Test Method: ANSI C63.10 (2020) Section 6.9.2
 Test Engineer: Linvo Ding
 Limit:

Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

7.2.1 E.U.T. Operation

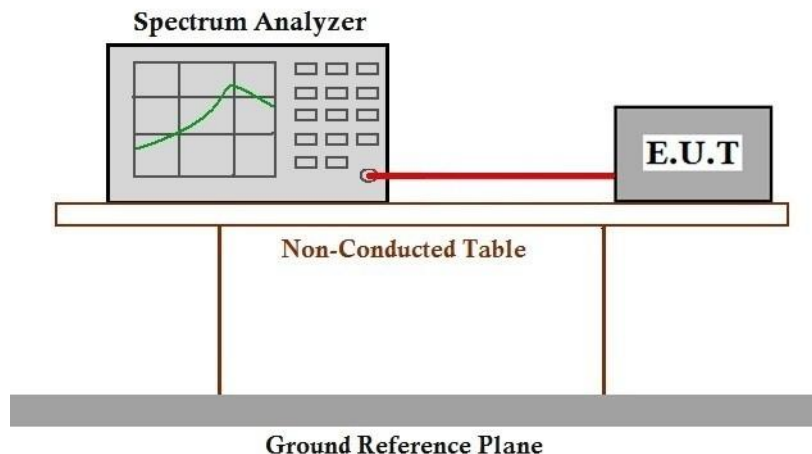
Operating Environment:

Temperature: 20.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

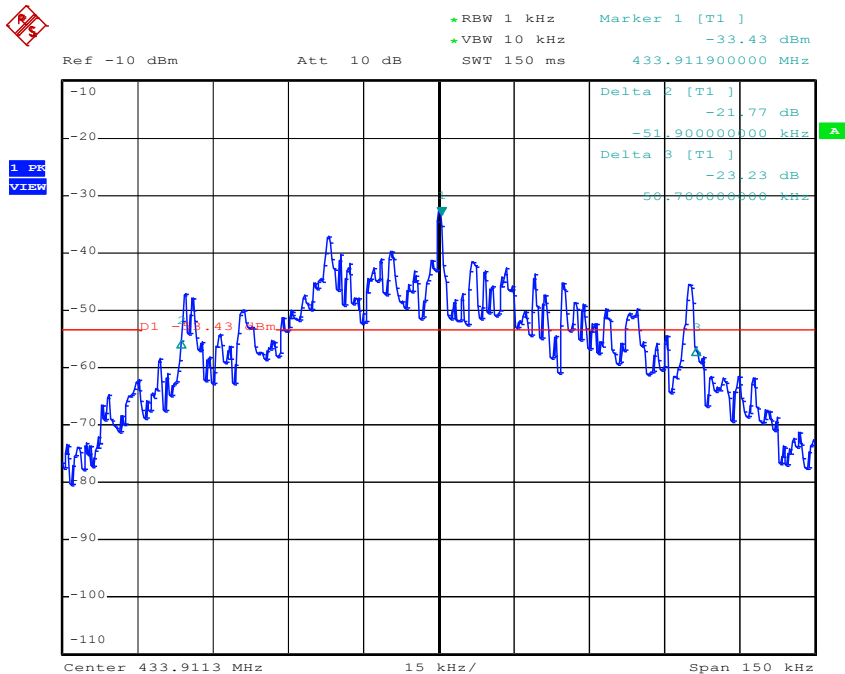
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Tx mode, Keep the EUT in transmitting mode with modulation.
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Test Channel	Bandwidth	Limit	Verdict
433.92MHz	102.6KHz	1.0848MHz	PASS



Note:

Limit=433.92*0.25%=1.0848MHz



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7.3 Dwell Time (15.231(a)(2))

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)(2)
 Test Method: ANSI C63.10 (2020) Section 7.5
 Test Engineer: Linvo Ding
 Limit:

Device type	Limit
Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
Automatically activated transmitter	Cease transmission within 5 seconds after activation
Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 seconds per hour

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.3 °C

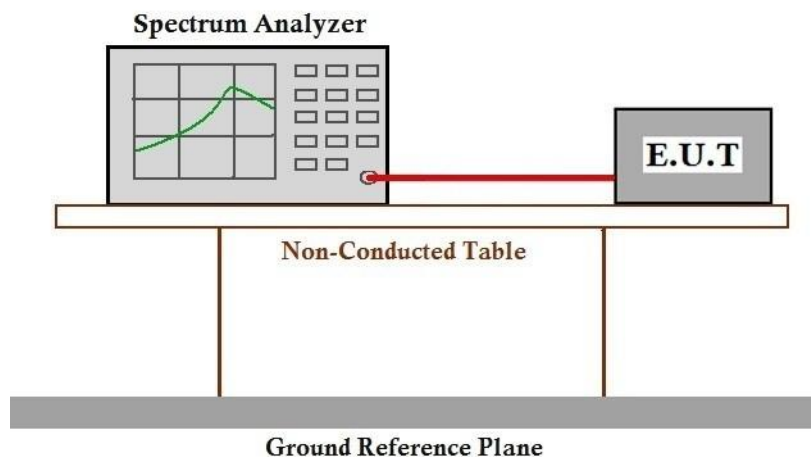
Humidity: 42.4 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Tx mode, Keep the EUT in transmitting mode with modulation.
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.

7.3.3 Test Setup Diagram

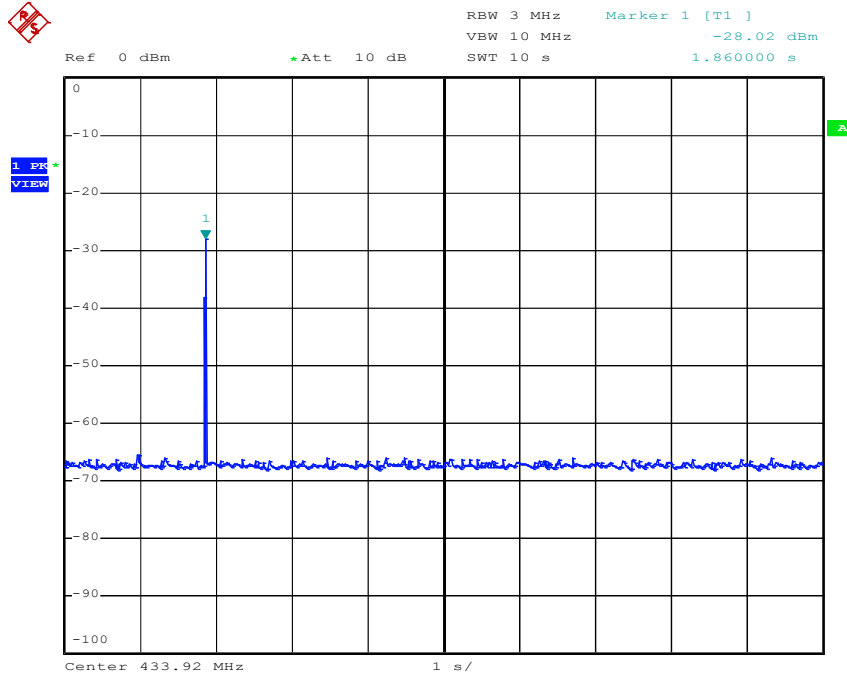


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7.3.4 Measurement Procedure and Data



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7.4 Field Strength of the Fundamental Signal (15.231(b))

Test Requirement: Field Strength of the Fundamental Signal (15.231(b))
 Test Method: ANSI C63.10 (2020) Section 6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu
 Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-470	3750 to 12500	375 to 1250
Above 470	12500	1250

** linear interpolations

The fundamental frequency of the EUT is 433.92 MHz

The limit for average or QP field strength dBuV/m for the fundamental emission= 80.83 dBuV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the spurious emission=60.83 dBuV/m. Spurious in the restricted bands must be less than 60.83 dBuV/m or 15.209, whichever limit permits a higher field strength.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Tx mode, Keep the EUT in transmitting mode with modulation.
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.



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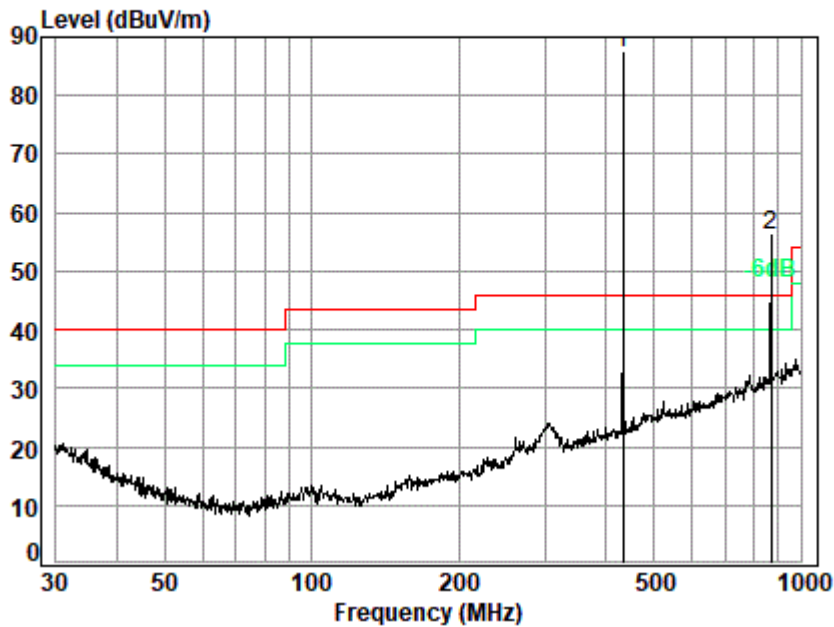
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SZEMC-TRF-01 Rev. A/2

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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00401ME/00402ME
Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	433.920	20.77	2.61	27.82	91.77	87.33	92.87	-5.54	Peak
2	867.840	27.80	3.89	27.16	51.47	56.00	72.87	-16.87	Peak



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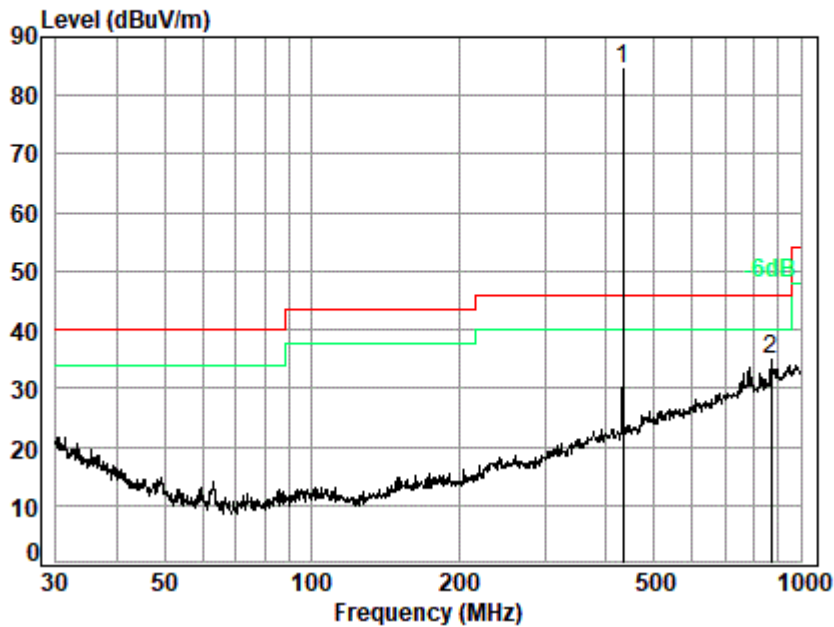
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Report No.: SZCR260100040103

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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00401ME/00402ME
Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	433.920	20.77	2.61	27.82	88.98	84.54	92.87	-8.33	Peak
2	867.840	27.80	3.89	27.16	30.28	34.81	72.87	-38.06	Peak



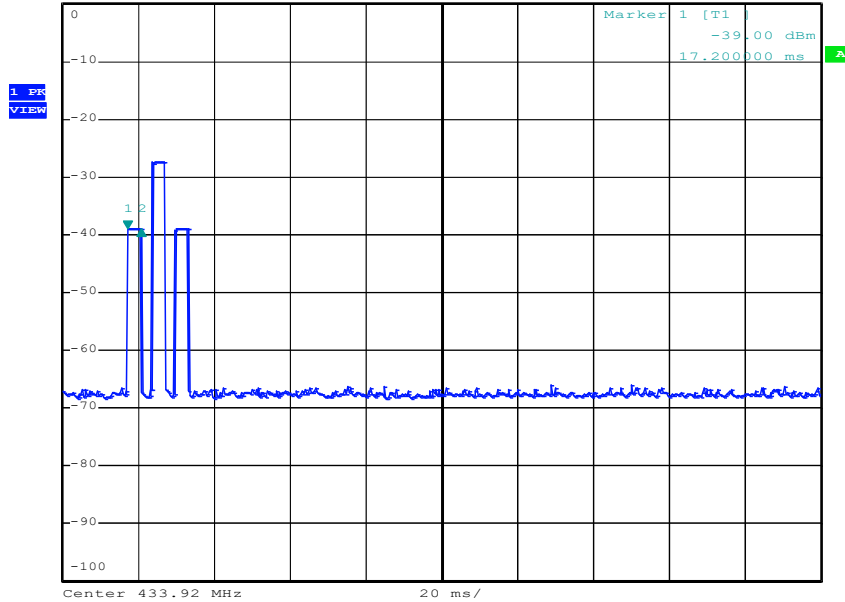
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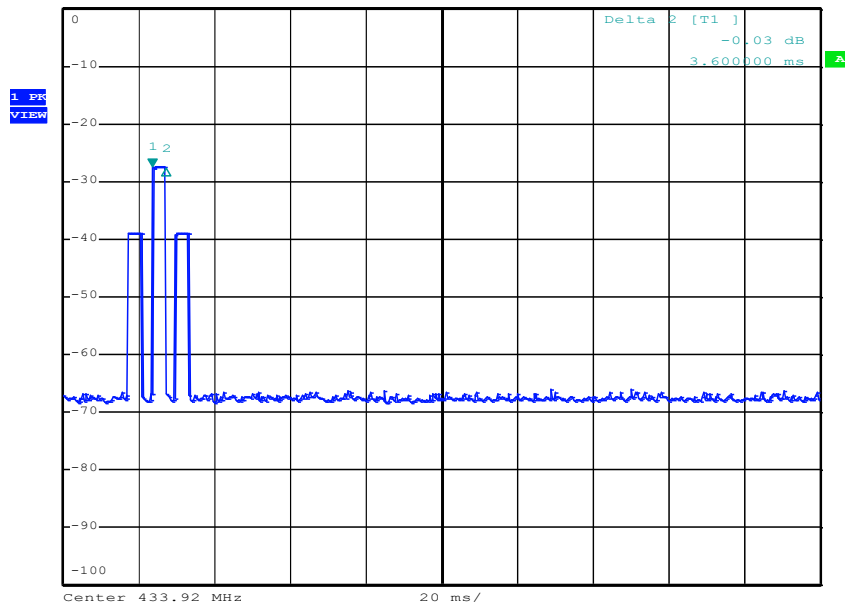
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RBW 3 MHz Delta 2 [T1]
VBW 10 MHz 0.00 dB
Ref 0 dBm *Att 10 dB SWT 200 ms 3.600000 ms



RBW 3 MHz Marker 1 [T1]
VBW 10 MHz -27.53 dBm
Ref 0 dBm *Att 10 dB SWT 200 ms 23.600000 ms

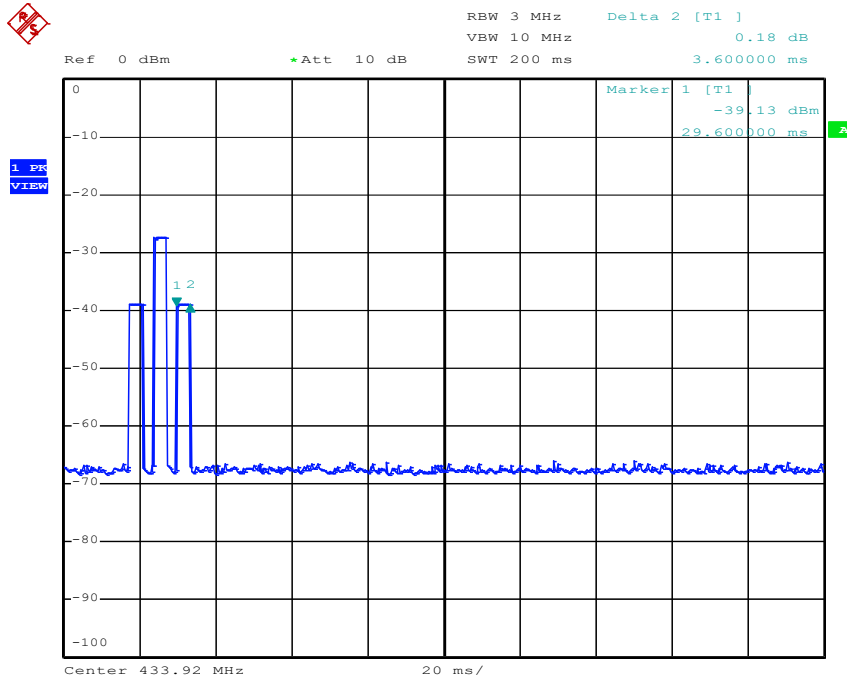


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The average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average = Peak value + 20log (Duty cycle), where the duty factor is calculated from following formula:

$$20\log (\text{Duty cycle}) = 20\log (10.8\%) = -19.33 \text{ dB}$$

Here:

$$\text{Duty cycle} = \text{Ton_cum} / \text{Ton+off}$$

$$\text{Ton_cum} = 3.6\text{ms} + 3.6\text{ms} + 3.6\text{ms} = 10.8\text{ms}$$

$$\text{Ton+off} = 100\text{ms}$$

$$\text{Duty cycle} = 10.8 / 100 = 10.8\%$$



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Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
433.92	2.61	20.77	27.82	91.77	87.33	100.83	-13.50	Horizontal
867.84	3.89	27.80	27.16	51.47	56.00	80.83	-24.83	Horizontal
433.92	2.61	20.77	27.82	88.98	84.54	100.83	-16.29	Vertical
867.84	3.89	27.80	27.16	30.28	34.81	80.83	-46.02	Vertical

Average value:

Frequency (MHz)	Average correction factor	Peak Level (dBuV/m)	Average Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	-19.33	87.33	68.00	80.83	-12.83	Horizontal
867.84	-19.33	56.00	36.67	60.83	-24.16	Horizontal
433.92	-19.33	84.54	65.21	80.83	-15.62	Vertical
867.84	-19.33	34.81	15.48	60.83	-45.35	Vertical

Note:

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

Average Level= Peak Level+ Average correction factor



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7.5 Radiated Emissions below 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(e) and 15.209

Test Method: ANSI C63.10 (2020) Section 6.4&6.5

Measurement Distance: 3m

Test Engineer: Kaito Zeng

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Tx mode, Keep the EUT in transmitting mode with modulation.
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.

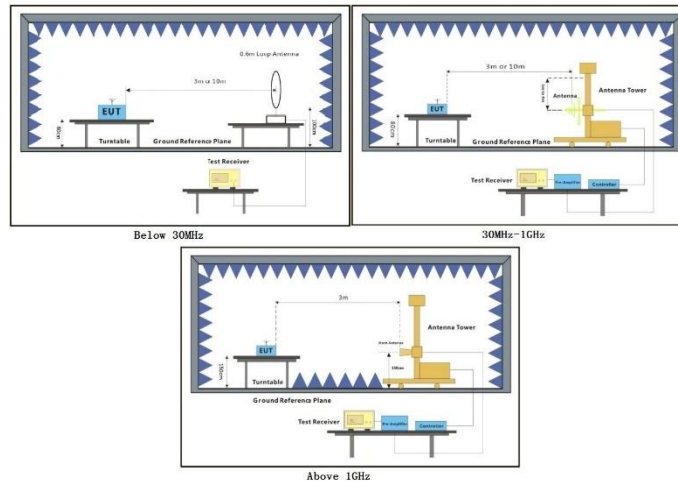


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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

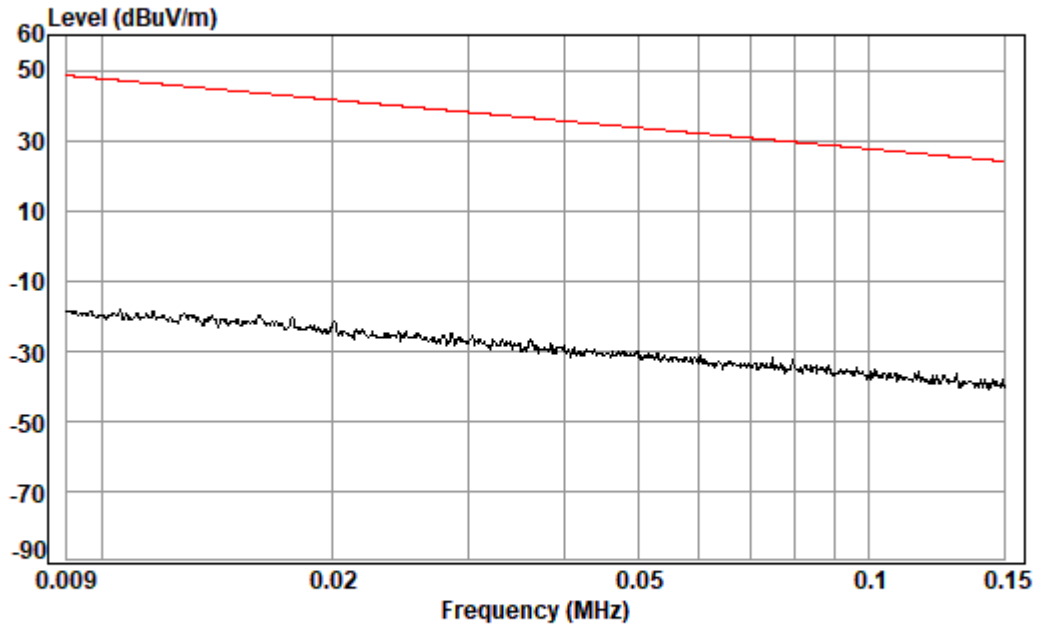
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- Scan from 9kHz to 1GHz, the disturbance below 30MHz was 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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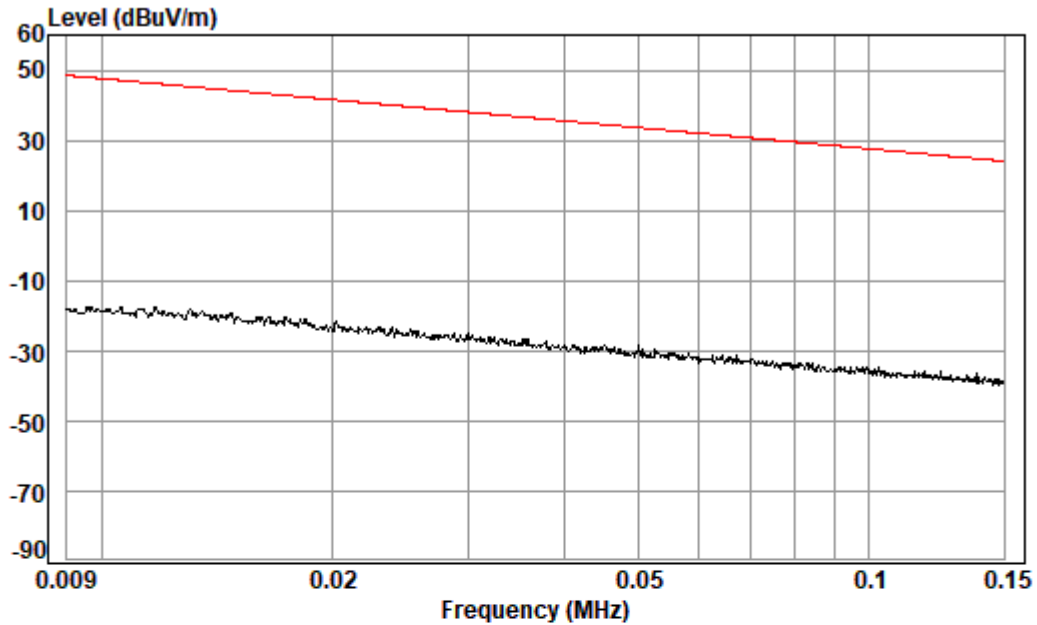
Condition: 3m
 Job No. : 00401ME
 Test Mode: 08
 : coaxial



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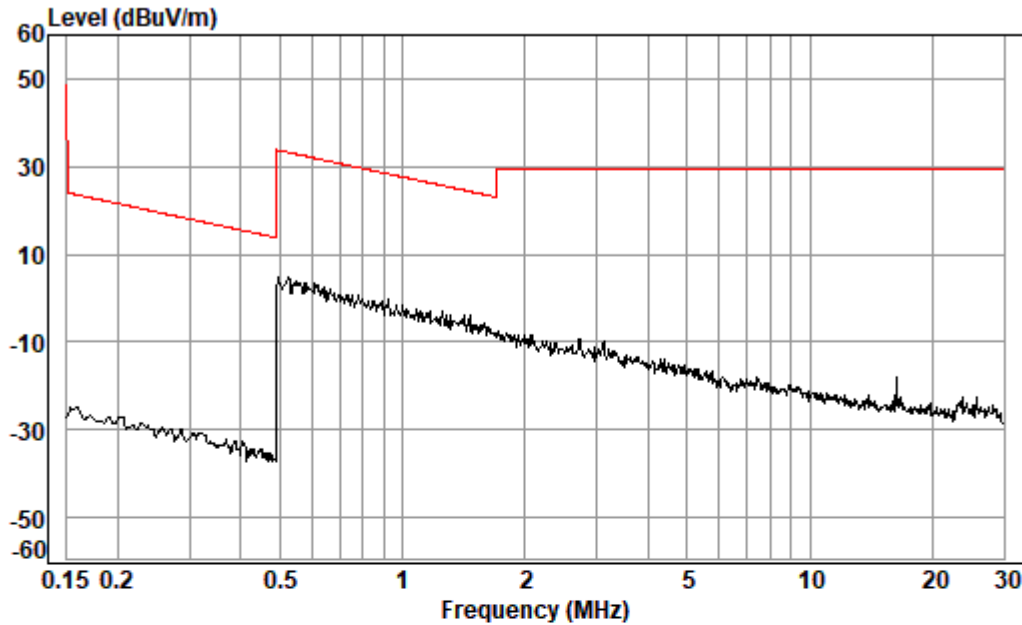
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 Job No. : 00401ME
 Test Mode: 08
 : coplanar



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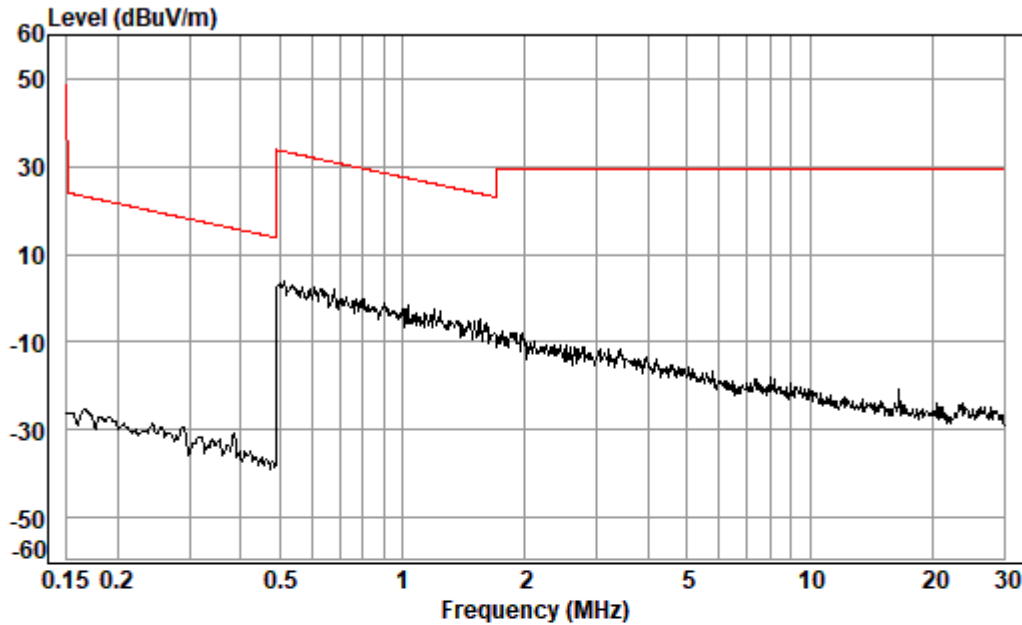
Condition: 3m
 Job No. : 00401ME
 Test Mode: 08
 : coaxial



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Condition: 3m
 Job No. : 00401ME
 Test Mode: 08
 : coplanar



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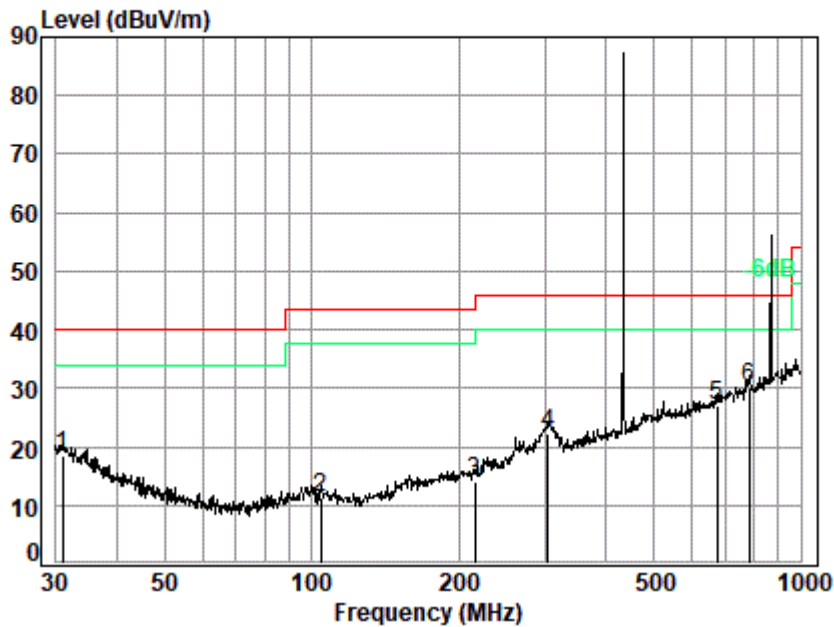
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Test Mode: 08; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00401ME/00402ME
Test Mode: 08

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.962	20.96	0.75	27.65	24.52	18.58	40.00 -21.42 QP
2	104.170	12.48	1.25	27.61	25.33	11.45	43.50 -32.05 QP
3	216.024	15.05	1.78	27.74	24.99	14.08	46.00 -31.92 QP
4	303.544	18.06	2.13	27.51	29.40	22.08	46.00 -23.92 QP
5	672.845	25.47	3.33	27.90	26.20	27.10	46.00 -18.90 QP
6 q	782.345	27.90	3.64	27.64	26.13	30.03	46.00 -15.97 QP

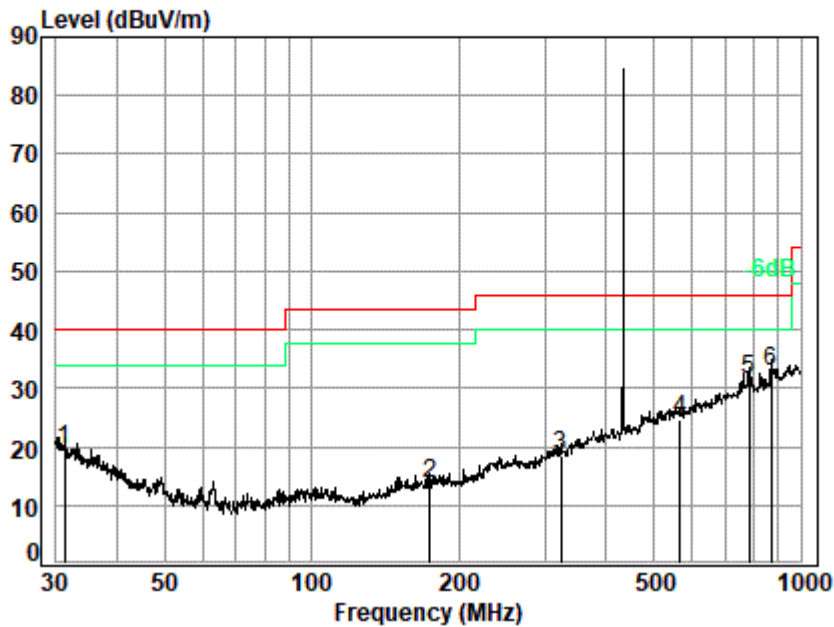


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Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00401ME/00402ME
Test Mode: 08

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.289	20.79	0.75	27.65	25.78	19.67	40.00 -20.33 QP
2	174.424	14.32	1.61	27.76	25.35	13.52	43.50 -29.98 QP
3	323.320	18.56	2.21	27.56	25.19	18.40	46.00 -27.60 QP
4	566.622	23.23	3.01	28.05	26.30	24.49	46.00 -21.51 QP
5	782.345	27.90	3.64	27.64	27.71	31.61	46.00 -14.39 QP
6 q	869.130	27.86	3.89	27.15	28.21	32.81	46.00 -13.19 QP



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7.6 Radiated Emissions above 1GHz

Test Requirement 47 CFR Part 15C Section 15.231(e) and 15.209

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

Test Engineer: Mihawk Li

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
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

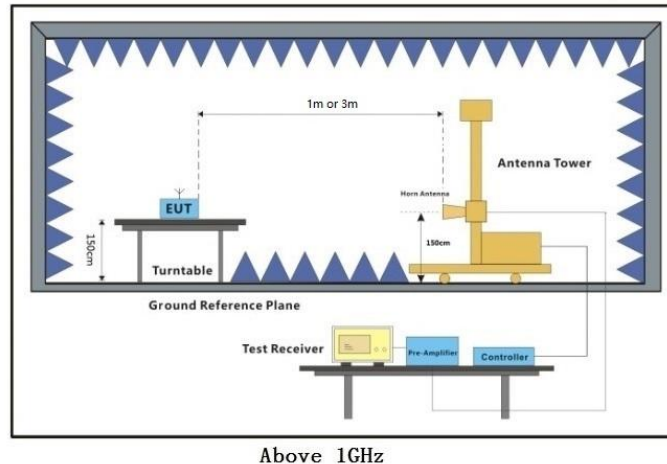
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Tx mode, Keep the EUT in transmitting mode with modulation.
Final test	08	Charge + Tx mode, Keep the EUT in charging and continuously transmitting mode with modulation.



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7.6.3 Test Setup Diagram



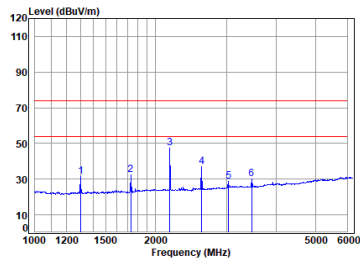
7.6.4 Measurement Procedure and Data

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 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.

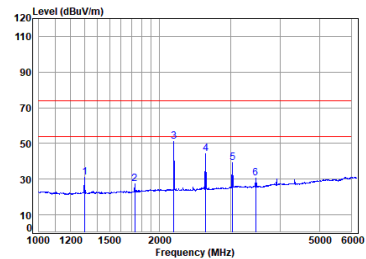
TX_Horizontal



Condition: 3m HORIZONTAL
Job No : 00401ME/00402ME
Mode : 433.92 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1301.760	6.04	25.91	54.32	54.07	31.70	74.00	-42.30	Peak	0.00
2	1735.680	7.30	25.50	54.24	53.83	32.39	74.00	-41.61	Peak	0.00
3	2169.600	6.59	27.58	54.28	67.44	47.33	74.00	-26.67	Peak	0.00
4	2603.520	6.72	28.31	54.46	56.27	36.84	74.00	-37.16	Peak	0.00
5	3037.440	7.04	29.68	54.62	46.74	28.84	74.00	-45.16	Peak	0.00
6	3471.360	7.45	29.76	54.85	47.89	30.25	74.00	-43.75	Peak	0.00

TX_Vertical



Condition: 3m VERTICAL
Job No : 00401ME/00402ME
Mode : 433.92 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1301.760	6.04	25.91	54.32	53.34	30.97	74.00	-43.03	Peak	0.00
2	1735.680	7.30	25.50	54.24	48.75	27.31	74.00	-46.69	Peak	0.00
3	2169.600	6.59	27.58	54.28	71.07	50.96	74.00	-23.04	Peak	0.00
4	2603.520	6.72	28.31	54.46	63.68	44.25	74.00	-29.75	Peak	0.00
5	3037.440	7.04	29.68	54.62	56.99	39.09	74.00	-34.91	Peak	0.00
6	3471.360	7.45	29.76	54.85	48.11	30.47	74.00	-43.53	Peak	0.00

8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2601000401ME

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal photos for SZCR2601000401ME

- End of the Report -



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