

TEST REPORT

Product : Alert Riders
Trade mark : N/A
Model/Type reference : 25115
Serial Number : N/A
Report Number : EED32Q81502601
FCC ID : 2BLHI-25115
Date of Issue : Oct. 11, 2024
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Shenzhen RSP Technology Co.,Ltd
A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong, China

Prepared by:

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Date:

Oct. 11, 2024



Aaron Ma

Check No.:1243240924

1 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15 Subpart C Section 15.249 (a)	ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15 Subpart C Section 15.249 (a)/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Subpart C Section 15.249(a)/15.205	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215 (c)	ANSI C63.10-2013	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

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3 General Information

3.1 Client Information

Applicant:	Shenzhen RSP Technology Co.,Ltd
Address of Applicant:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China
Manufacturer:	Shenzhen RSP Technology Co.,Ltd
Address of Manufacturer:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China
Factory:	Shenzhen RSP Technology Co.,Ltd
Address of Factory:	A510 Fenghuangzhigu Building, NO.50 Tiezai Road, Xixiang Bao 'an, Shenzhen, Guangdong,China

3.2 General Description of EUT

Product Name:	Alert Riders
Model No.:	25115
Trade mark:	N/A
Product Type:	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Frequency Range:	915MHz
Number of Channels:	1 (declared by the client)
Modulation type:	OOK
Antenna Type:	Internal antenna
Antenna gain:	2.0dBi
Test Software of EUT:	RF test
Test Power Grade:	Default
Power Supply:	DC 5V
Test Voltage:	DC 3.7V
Sample Received Date:	Sep. 26, 2024
Sample tested Date:	Sep. 26, 2024 to Oct. 09, 2024

Operation Frequency each of channel :	
Channel	Frequency(MHz)
CH1	915

Note:

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

Channel	Frequency(MHz)
CH1	915

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3.3 Test Environment and Mode

Operating Environment:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

3.4 Description of Support Units

The EUT has been tested independently and or

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	HP	ThinkBook 14 (21A30001CD)	FCC ID and DOC	CTI
Netbook	HP	HP ZHAN 66 Pro 14 G4 Notebook PC	FCC ID and DOC	CTI

3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

3M Semi/full-anechoic Chamber(2#)					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-22-2022	05-21-2025
Receiver	R&S	ESCI7	100938-003	09-07-2024	09-06-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-16-2024	04-15-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-18-2024	05-17-2025
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-16-2024	04-15-2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07-02-2023	07-01-2026
Preamplifier	Agilent	11909A	12-1	03-22-2024	03-21-2025
Preamplifier	EMCI	EMC051845SE	980380	12-14-2023	12-13-2024
Preamplifier	CD	PAP-1840-60	6041.6042	06-19-2024	06-18-2025
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-09-2024	01-08-2025
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-29-2024	01-28-2025
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-23-2024	01-22-2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-08-2024	03-07-2025
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-14-2023	12-13-2024
Communication test set	R&S	CMW500	102898	12-14-2023	12-13-2024
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-07-2024	04-06-2025
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001		---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

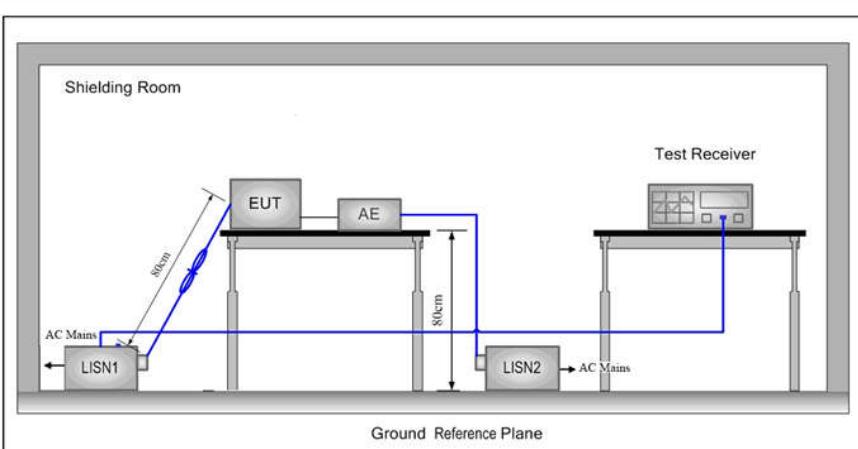
Conducted Emissions Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-14-2023	12-13-2024
Barometer	Changchun	DYM3	1188	---	---
Temperature/ Humidity Indicator	Defu	TH128	---	04-25-2024	04-24-2025
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
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:	Please see Internal photos
The antenna is integrated on the main PCB and no consideration of replacement.	

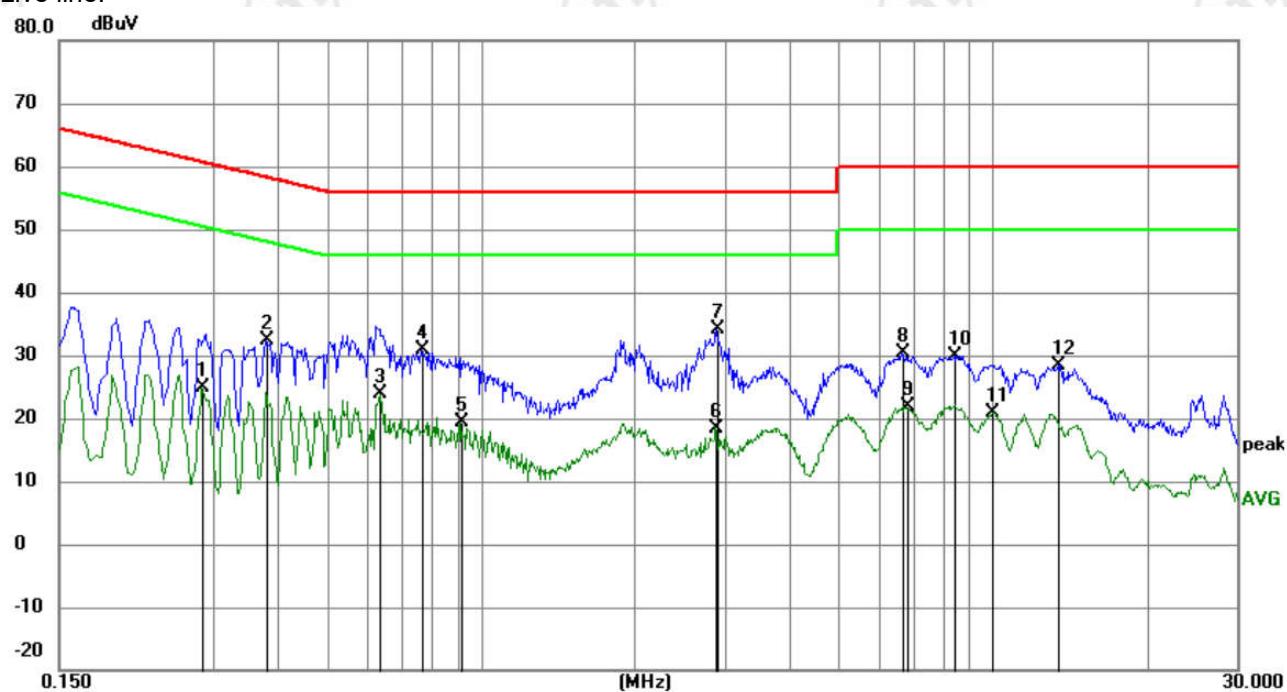
5.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak
	0.15-0.5		66 to 56*
	0.5-5		56
	5-30		60
* Decreases with the logarithm of the frequency.			
Test Setup:			
Test Procedure:	<ol style="list-style-type: none"> 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 $50\Omega/50\mu\text{H} + 5\Omega$ 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: 2013 on conducted measurement. 		
Test Mode:	All modes were tested, only the worse case lowest channel of 1Mbps for 802.11b was recorded in the report.		

Test Results: Pass

Measurement Data

Live line:

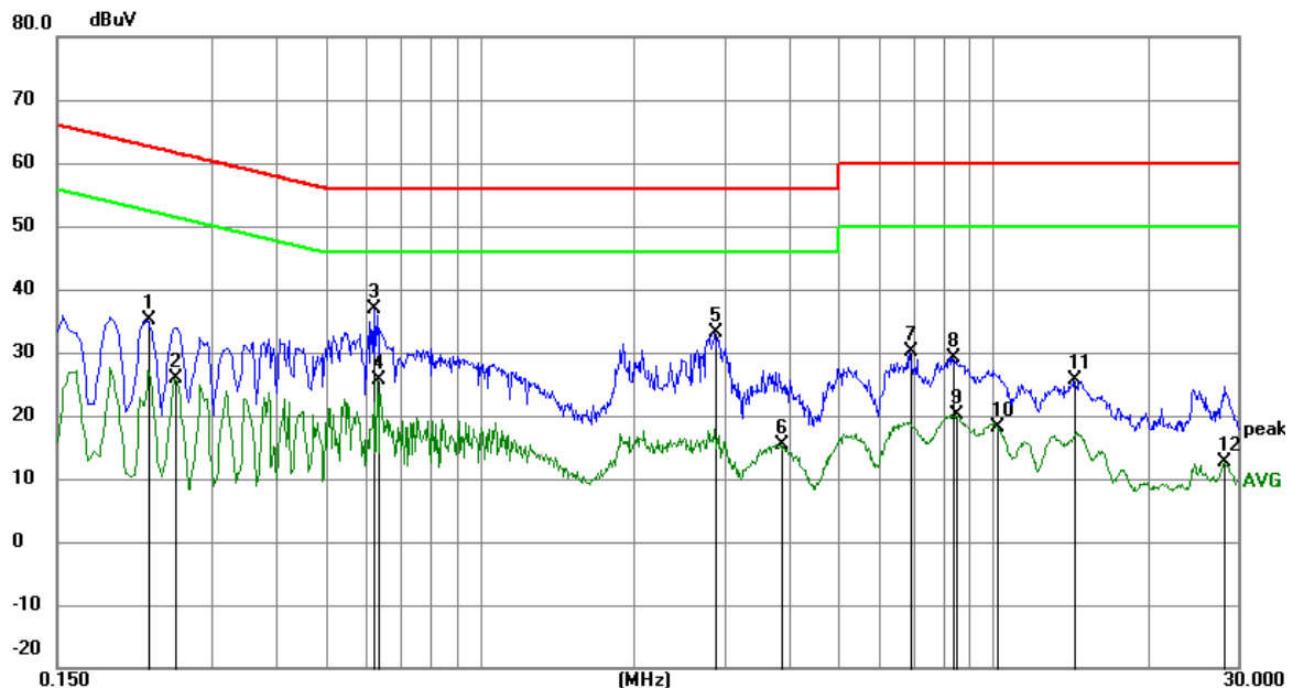


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dB	Detector	
1		0.2850	15.29	9.59	24.88	50.67	-25.79	AVG
2		0.3795	22.54	9.74	32.28	58.29	-26.01	QP
3		0.6360	14.24	9.74	23.98	46.00	-22.02	AVG
4		0.7665	20.99	9.85	30.84	56.00	-25.16	QP
5		0.9150	9.54	9.80	19.34	46.00	-26.66	AVG
6		2.8770	8.72	9.78	18.50	46.00	-27.50	AVG
7	*	2.8905	24.40	9.78	34.18	56.00	-21.82	QP
8		6.6570	20.65	9.85	30.50	60.00	-29.50	QP
9		6.7920	12.01	9.85	21.86	50.00	-28.14	AVG
10		8.4120	20.15	9.84	29.99	60.00	-30.01	QP
11		10.0050	11.06	9.83	20.89	50.00	-29.11	AVG
12		13.4160	18.60	9.84	28.44	60.00	-31.56	QP

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2265	25.32	9.78	35.10	62.58	-27.48	QP	
2		0.2535	16.12	9.69	25.81	51.64	-25.83	AVG	
3	*	0.6225	27.20	9.68	36.88	56.00	-19.12	QP	
4		0.6315	15.97	9.72	25.69	46.00	-20.31	AVG	
5		2.8725	23.44	9.78	33.22	56.00	-22.78	QP	
6		3.8670	5.58	9.81	15.39	46.00	-30.61	AVG	
7		6.9045	20.32	9.85	30.17	60.00	-29.83	QP	
8		8.3580	19.30	9.84	29.14	60.00	-30.86	QP	
9		8.4975	10.25	9.84	20.09	50.00	-29.91	AVG	
10		10.2030	8.41	9.83	18.24	50.00	-31.76	AVG	
11		14.4060	15.79	9.85	25.64	60.00	-34.36	QP	
12		28.2705	2.85	9.83	12.68	50.00	-37.32	AVG	

Remark:

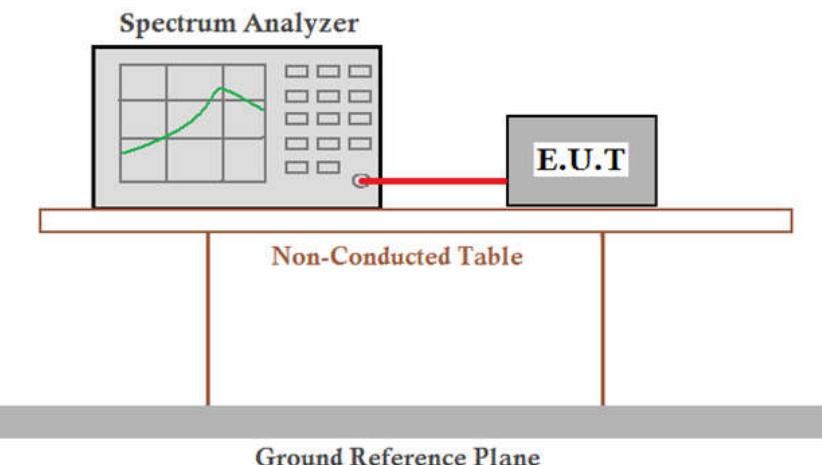
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

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5.3 Radiated Spurious Emissions

5.3.1 Duty Cycle

Test Requirement: 47 CFR Part 15C Section 15.35 (c)**Test Method:** ANSI C63.10:2013**Test Setup:****Limit:**

N/A

Test Mode:

Transmitting mode

Test Results:

Pass

The number of pulses of duration /100ms	T on time (ms)/one burst	T on time (ms)/100ms	T period (ms)	Duty cycle
1	100	100	100	100%

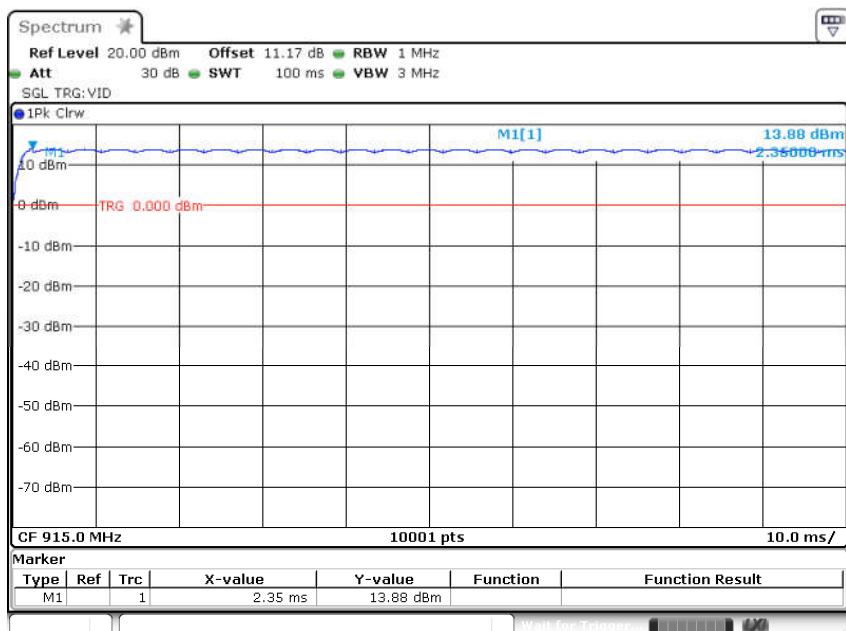
Note:

① $T_{on\ time}(ms)/100ms = \text{The number of pulses of duration}/100ms * T_{on\ time}(ms)/\text{one burst};$ ② $\text{Duty cycle} = T_{on\ time}(ms)/100ms / T_{period}(ms) * 100\%;$

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Test plot as follows:



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5.3.2 Radiated Spurious Emissions

Test Requirement: 47 CFR Part 15C Section 15.249 and 15.209 and 15.205

Test Method: ANSI C63.10

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10kHz	Average

Limit:
(Spurious Emissions)

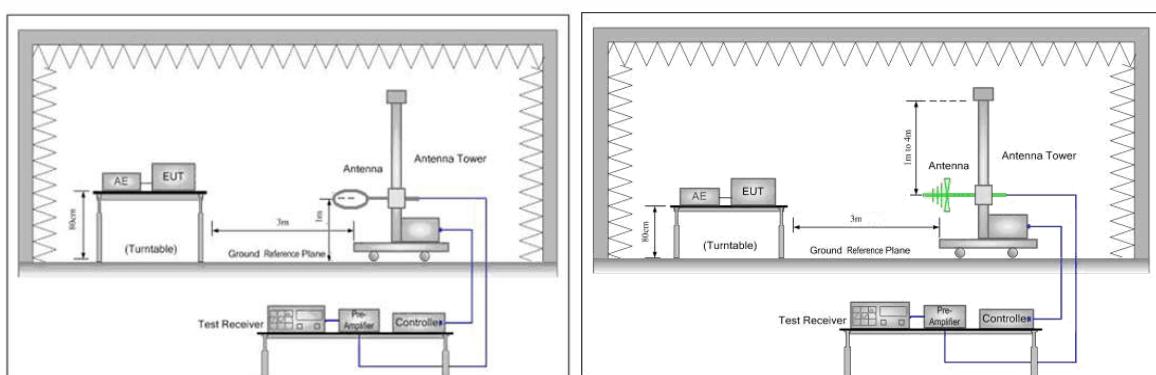
Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Limit:
(Field strength of the fundamental signal)

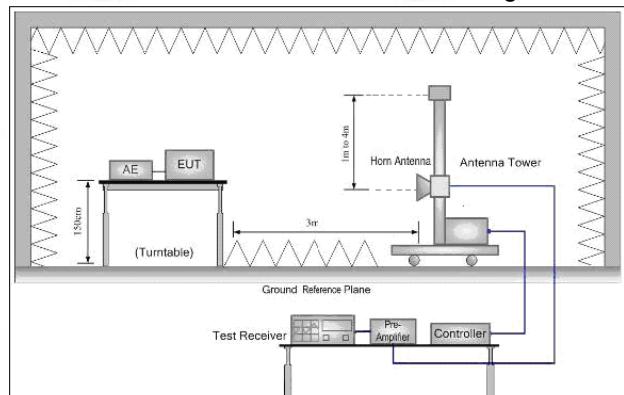
Frequency	Limit (dB μ V/m @3m)	Remark
911MHz-919MHz	94.0	Average Value
	114.0	Peak Value

Test Setup:



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Figure 1. Below 30MHz



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Figure 2. 30MHz to 1GHz

Figure 3. Above 1GHz

Test Procedure:

Below 1GHz test procedure as below:

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.

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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table 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.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).

Test the EUT in the only channel .

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Transmitting mode

Test Mode:

Test Results:

Pass

Test data:

Field Strength of the Fundamental Signal:

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20*log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	T on time =100ms
	T period =100ms
	PDCF= 0

Test channel:	CH1
---------------	-----

Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
915	90.48	-3.84	86.64	114.00	-27.36	Peak
915	-	-	86.64	94.00	-7.36	Average

Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
915	90.55	-3.83	86.72	114.00	-27.28	Peak
915	-	-	86.72	94.00	-7.28	Average

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

Spurious Emissions

9KHz-30MHz:

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

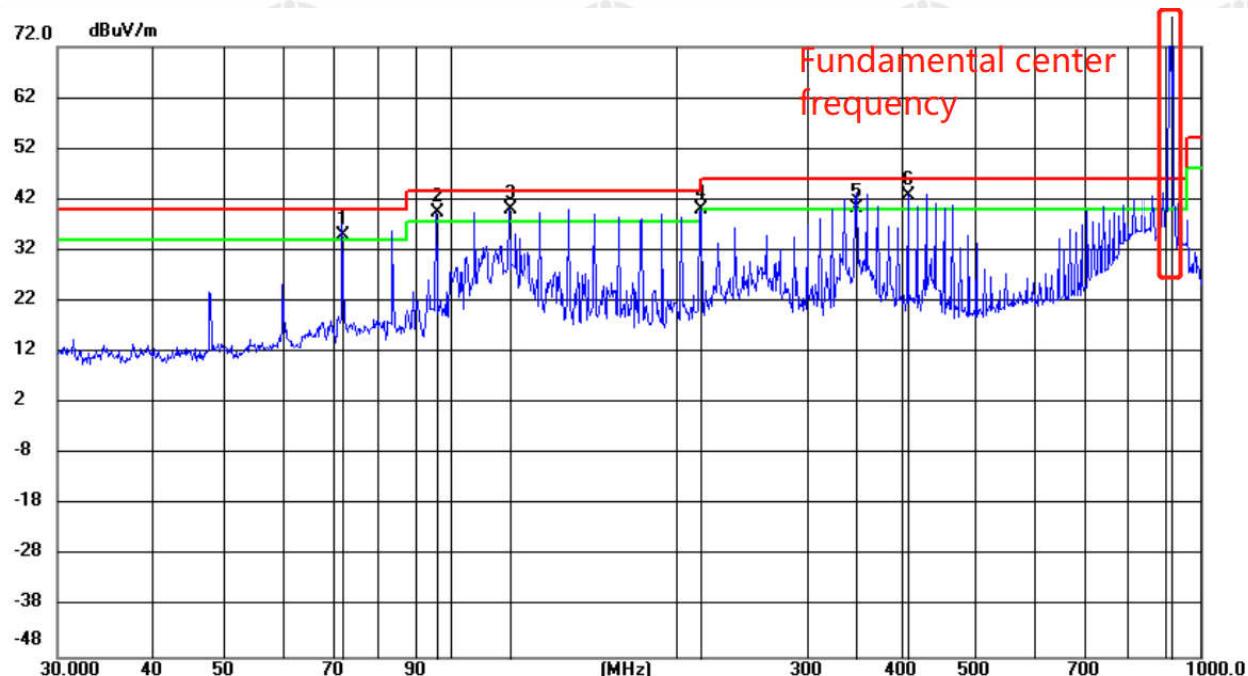
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

30MHz-1GHz & Restricted bands:

Test channel:

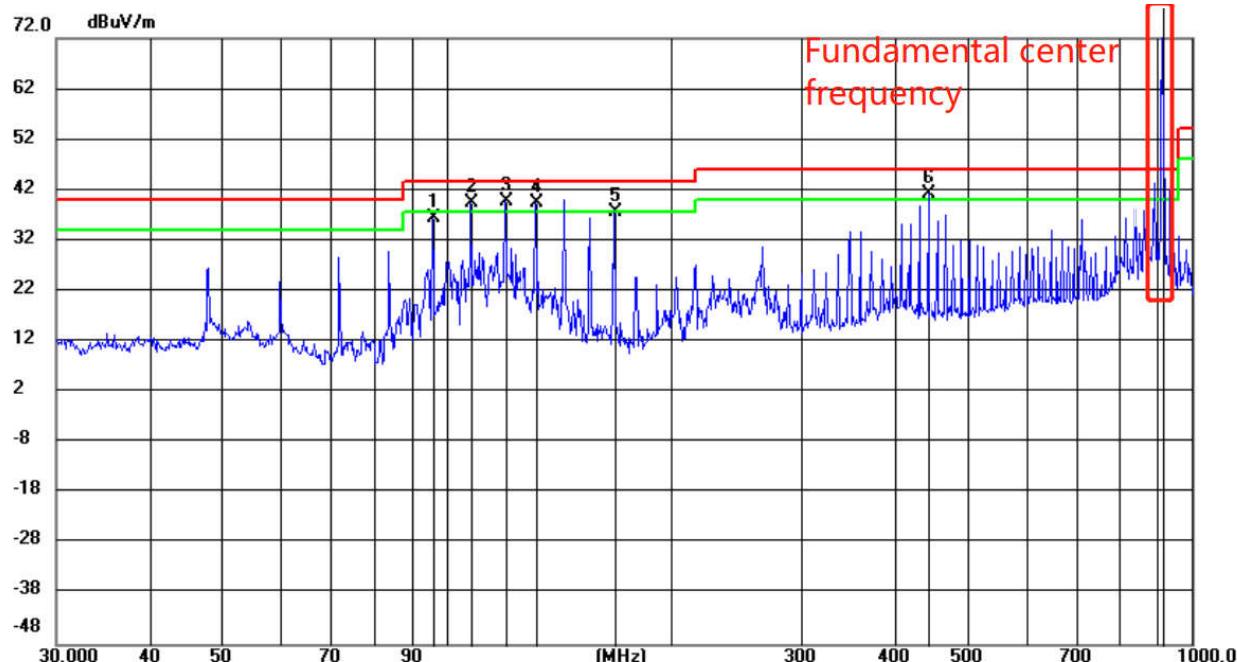
CH1

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	71.9959	24.91	10.19	35.10	40.00	-4.90	QP	100	165
2	!	96.0143	26.76	12.57	39.33	43.50	-4.17	QP	100	0
3	!	120.0027	28.45	11.66	40.11	43.50	-3.39	QP	100	352
4		216.0239	26.98	12.98	39.96	46.00	-6.04	QP	100	155
5	!	348.0274	23.44	17.06	40.50	46.00	-5.50	QP	100	311
6	!	408.0149	24.72	18.18	42.90	46.00	-3.10	QP	100	124
7	*	915.2659	79.70	26.01	105.71	46.00	59.71	QP	100	352

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		95.9975	24.77	11.54	36.31	43.50	-7.19	QP	100	68
2	!	107.9823	27.70	11.86	39.56	43.50	-3.94	QP	100	109
3	!	119.9818	29.37	10.50	39.87	43.50	-3.63	QP	100	109
4	!	132.0352	30.81	8.54	39.35	43.50	-4.15	QP	100	109
5	!	168.0302	28.13	9.64	37.77	43.50	-5.73	QP	100	120
6	!	444.0722	24.79	16.56	41.35	46.00	-4.65	QP	100	193
7	*	915.2660	79.35	22.68	102.03	46.00	56.03	QP	100	27

Above 1GHz:

Test mode:					Transmitting (CH1)				
NO	Freq. [MHz]	Factor [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity	Remark
1	1287.42	-25.89	66.24	40.35	74.00	33.65	PASS	Horizontal	PK
2	2127.11	-22.33	60.26	37.93	74.00	36.07	PASS	Horizontal	PK
3	2744.57	-20.15	62.45	42.30	74.00	31.70	PASS	Horizontal	PK
4	4574.63	-13.35	63.49	50.14	74.00	23.86	PASS	Horizontal	PK
5	5490.76	-10.54	60.34	49.80	74.00	24.20	PASS	Horizontal	PK
6	8233.54	-2.29	52.90	50.61	74.00	23.39	PASS	Horizontal	PK
7	1116.01	-26.24	67.40	41.16	74.00	32.84	PASS	Vertical	PK
8	1150.21	-25.31	66.29	40.98	74.00	33.02	PASS	Vertical	PK
9	1829.68	-22.60	64.16	41.56	74.00	32.44	PASS	Vertical	PK
10	3082.13	-17.87	55.63	37.76	74.00	36.24	PASS	Vertical	PK
11	4575.10	-13.35	62.73	49.38	74.00	24.62	PASS	Vertical	PK
12	5489.83	-10.55	57.22	46.67	74.00	27.33	PASS	Vertical	PK

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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Correct Factor}$$

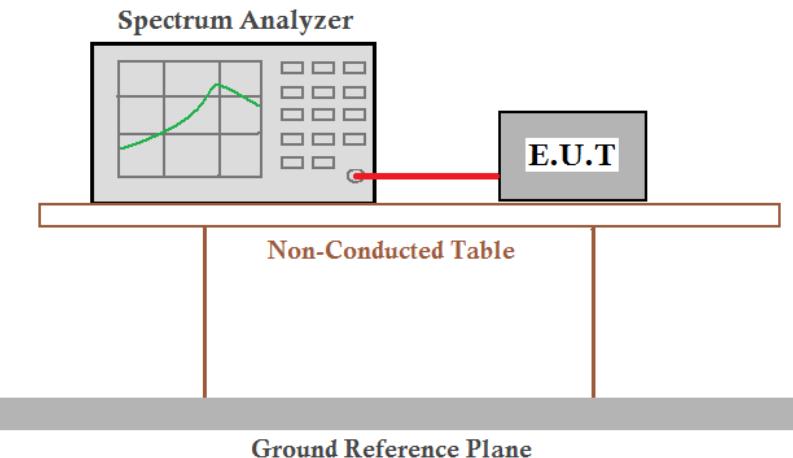
$$\text{Correct Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$
- 2) Scan from 9kHz to 18GHz, below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

5.3.3 20dB Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215

Test Method: ANSI C63.10: 2013

Test Setup:



Remark: Offset=Cable loss+ attenuation factor.

- 1) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2) Set to the maximum power setting and enable the EUT transmit continuously.
- 3) Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a test channel; $1\% \leq RBW \leq 5\%$ of the 20 dB bandwidth; $VBW \geq 3RBW$; Sweep = auto; Detector function = peak; Trace = max hold.
- 4) Measure and record the results in the test report.

Test Procedure: N/A

Test Mode: Transmitter mode

Test Results: Pass

Measurement Data

Test Channel	Frequency Left (MHz)	Frequency Right (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
CH1	914.715	915.290	575	N/A	Pass

Note: 20dB bandwidth(kHz)=(Frequency Right(MHz)-Frequency Left(MHz))*1000;

Test plot as follows:

