



**BUREAU
VERITAS**

TEST REPORT NUMBER: (8523)156-0342

TEST REPORT

Applicant:	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED	Fax:	---
		E-mail:	---
Address :	XINGDA INDUSTRIAL PARK, CHENGHAI SHANTOU CITY, GUANGDONG PROVINCE, China		
Test Date :	2023-6-15 to 2023-6-27		

Manufacturer or Supplier :	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Address :	XINGDA INDUSTRIAL PARK, CHENGHAI SHANTOU CITY, GUANGDONG PROVINCE, China
Sample Description:	Building Blocks
Model number:	C61503W
Additional Model :	---
Rated Voltage:	DC3V (AA*2)
FCC ID :	2AAFASY-C61503W-04

The submitted sample of the above equipment has been tested according to following standard(s)

47 CFR Part 15, Subpart C 249

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Assistant Manager

Name: Nick Lung

Date: JUN 28,2023



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1 Test Summary

Test Item	IC 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	N/A
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	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

N/A: Since the EUT is powered by battery, this AC power line conducted emission test should be not applicable

NOTE: The following test items are all using new batteries



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3 General Information

3.1 Client Information

Applicant:	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Address of Applicant:	XINGDA INDUSTRIAL PARK, CHENGHAI SHANTOU CITY, GUANGDONG PROVINCE, China
Manufacturer:	DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Address of Manufacturer:	XINGDA INDUSTRIAL PARK, CHENGHAI SHANTOU CITY, GUANGDONG PROVINCE, China

3.2 General Description of EUT

Name:	Building Blocks
Test Model No.:	C61503W
Trade Mark :	N/A
Software Version:	SY-JV1077-2.4G
Hardware Version:	SY-JV8011T- 2.4G
Frequency Range:	2405-2475MHz
Modulation Type:	GFSK
Number of Channels:	71
Sample Type:	Portable product
Antenna Type:	Wire antenna
Antenna Gain:	0dBi



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Channel #	Frequency (MHz)	Channel #	Frequency (MHz)	Channel #	Frequency (MHz)	Channel #	Frequency (MHz)
CH.1	2405	CH.21	2425	CH.41	2445	CH.61	2465
CH.2	2406	CH.22	2426	CH.42	2446	CH.62	2466
CH.3	2407	CH.23	2427	CH.43	2447	CH.63	2467
CH.4	2408	CH.24	2428	CH.44	2448	CH.64	2468
CH.5	2409	CH.25	2429	CH.45	2449	CH.65	2469
CH.6	2410	CH.26	2430	CH.46	2450	CH.66	2470
CH.7	2411	CH.27	2431	CH.47	2451	CH.67	2471
CH.8	2412	CH.28	2432	CH.48	2452	CH.68	2472
CH.9	2413	CH.29	2433	CH.49	2453	CH.69	2473
CH.10	2414	CH.30	2434	CH.50	2454	CH.70	2474
CH.11	2415	CH.31	2435	CH.51	2455	CH.71	2475
CH.12	2416	CH.32	2436	CH.52	2456		
CH.13	2417	CH.33	2437	CH.53	2457		
CH.14	2418	CH.34	2438	CH.54	2458		
CH.15	2419	CH.35	2439	CH.55	2459		
CH.16	2420	CH.36	2440	CH.56	2460		
CH.17	2421	CH.37	2441	CH.57	2461		
CH.18	2422	CH.38	2442	CH.58	2462		
CH.19	2423	CH.39	2443	CH.59	2463		
CH.20	2424	CH.40	2444	CH.60	2464		



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Note:

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

Channel	Frequency
The Lowest channel	2405MHz
The Middle channel	2440MHz
The Highest channel	2475MHz



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3.3 Test Environment and Mode

Operating Environment:	
Temperature:	29 °C
Humidity:	59 % RH
Atmospheric Pressure:	1001mbar
Test mode:	
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	CQA



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3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8 °C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	time	0.6 %.
14	Frequency Error	5.5 Hz



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3.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Testers and auditors

The tester in this report is Timo Lei, The auditor of this report is Lewis Zhou, The test site is: Shenzhen Huaxia Testing Technology Co., Ltd.

3.8 Test Facility

• **ISED No.: 22984**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

• **CAB identifier:CN0055**

Shenzhen Huaxia Testing Technology Co., Ltd.CAB identifier No.:CN0055

3.9 Deviation from Standards

None.

3.10 Abnormalities from Standard Conditions

None.

3.11 Other Information Requested by the Customer

None.



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3.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
EUT Antenna:	Please refer to the photos Appendix B
The antenna is soldered on the PCB, no need to consider replacement. best case gain Antenna is 0dBi.	



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4.2 Radiated Emission

Test Requirement:	RSS 210 B 10 (a) 47 CFR Part 15, Subpart C Section 15.205/15.209				
Test Method:	ANSI C63.10 & RSS-Gen section 6.12/6.13				
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	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 1) 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. 2) Emissions 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.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	

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		114.0	Peak Value
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Test Setup:

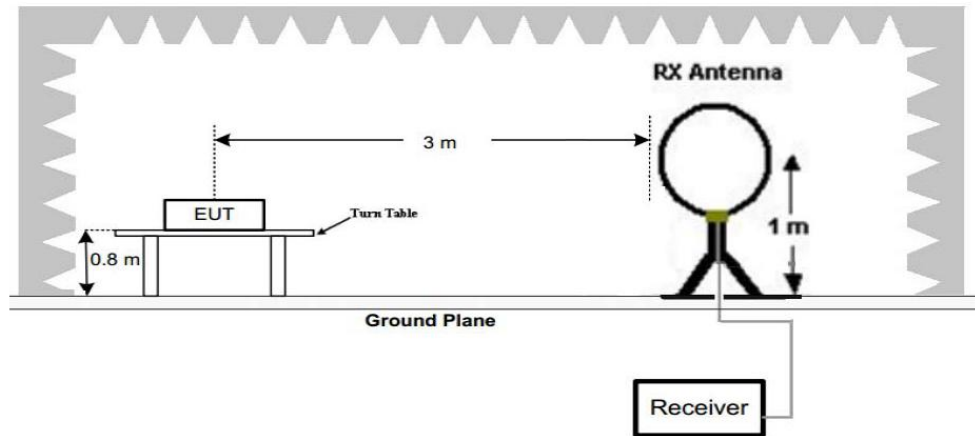


Figure 1. Below 30MHz

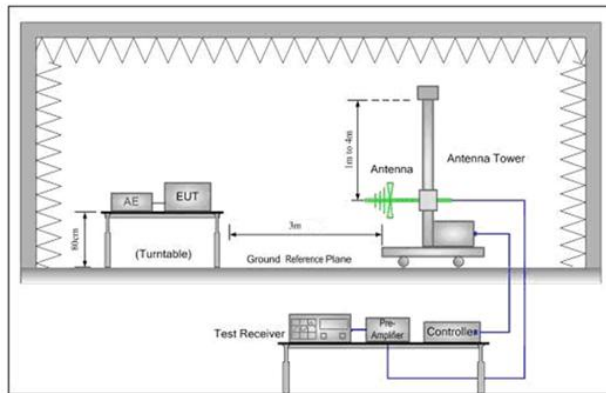


Figure 2. 30MHz to 1GHz

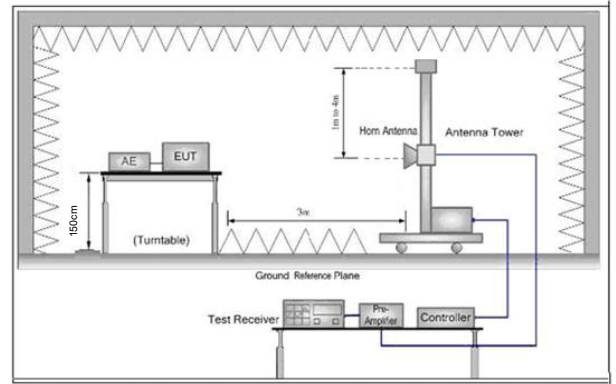


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<p>a. 1) Below 1G: 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.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.</p> <p>Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>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.</p>
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	<ul style="list-style-type: none">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, quasi-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 channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Voltage:	DC3.0V (AA*2)
Test Results:	Pass

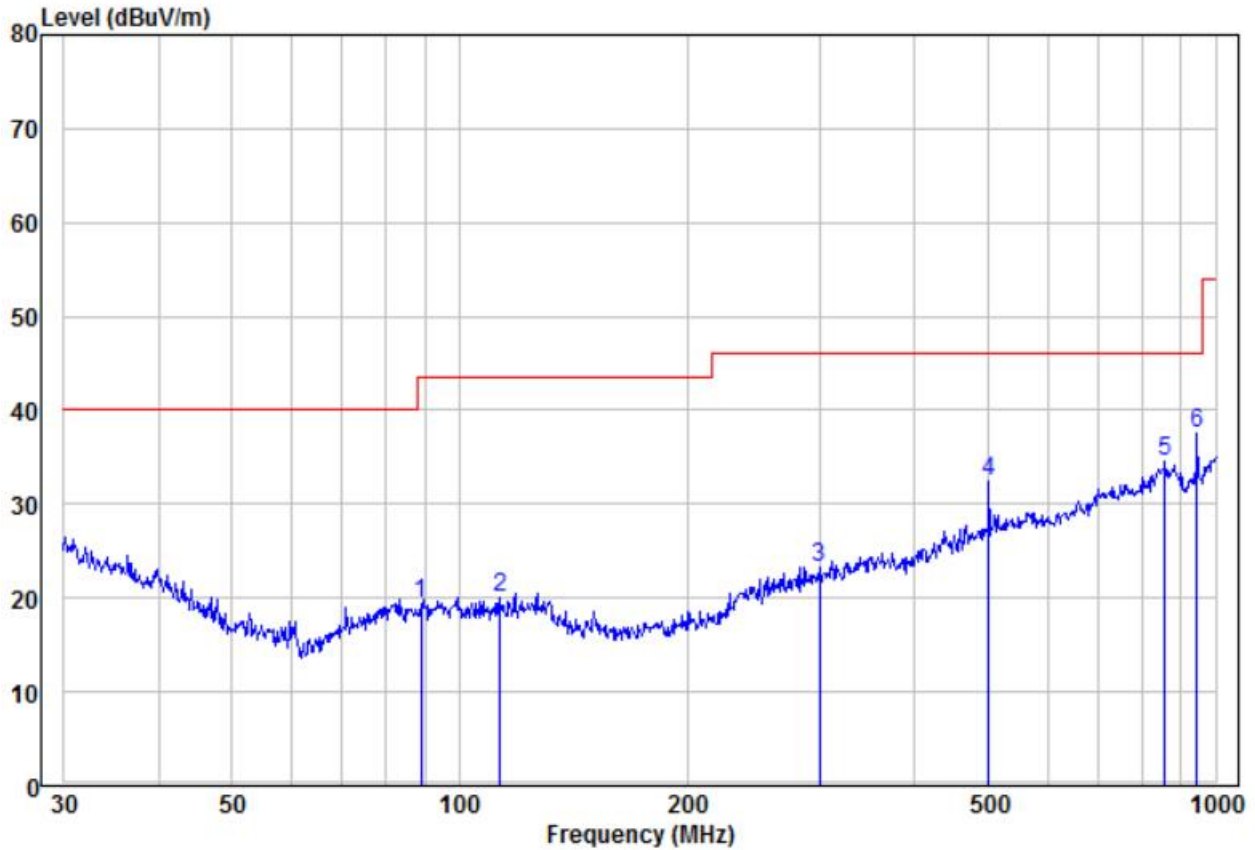


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Measurement Data

30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Vertical



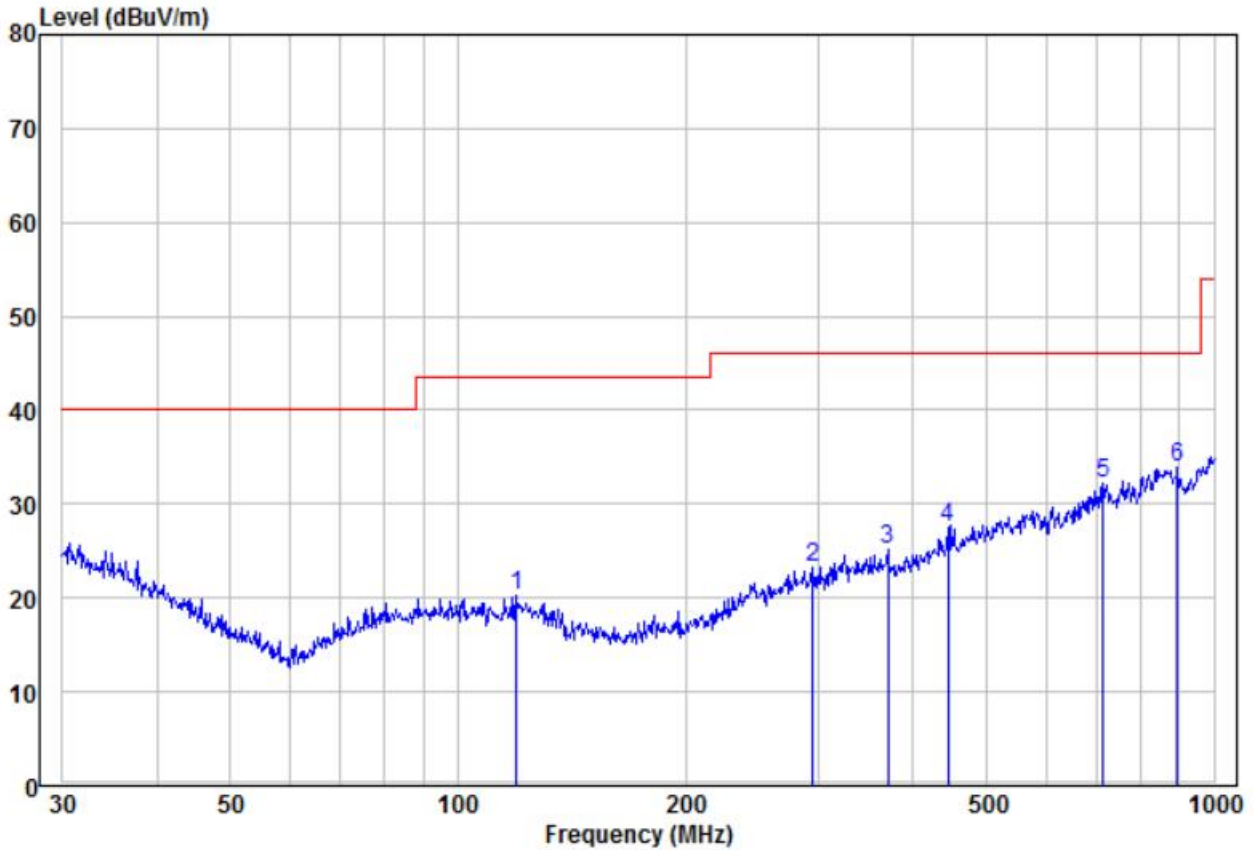
	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	88.96	9.38	9.99	19.37	43.50	-24.13	Peak	VERTICAL
2	113.32	9.77	10.35	20.12	43.50	-23.38	Peak	VERTICAL
3	299.32	9.49	13.71	23.20	46.00	-22.80	Peak	VERTICAL
4	501.18	14.11	18.29	32.40	46.00	-13.60	Peak	VERTICAL
5	857.02	10.55	24.02	34.57	46.00	-11.43	Peak	VERTICAL
6 pp	945.44	13.97	23.62	37.59	46.00	-8.41	Peak	VERTICAL



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30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Horizontal



	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	119.44	9.56	10.67	20.23	43.50	-23.27	Peak	HORIZONTAL
2	295.15	9.67	13.57	23.24	46.00	-22.76	Peak	HORIZONTAL
3	370.70	9.91	15.31	25.22	46.00	-20.78	Peak	HORIZONTAL
4	444.85	10.89	16.57	27.46	46.00	-18.54	Peak	HORIZONTAL
5	714.17	11.09	21.19	32.28	46.00	-13.72	Peak	HORIZONTAL
6 pp	893.86	10.12	23.87	33.99	46.00	-12.01	Peak	HORIZONTAL



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Above 1GHz							
Test mode:		Transmitting		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2390	58.36	-9.2	49.16	74	-24.84	Peak	H
2390	44.72	-9.2	35.52	54	-18.48	AVG	H
2400	59.46	-9.39	50.07	74	-23.93	Peak	H
2400	46.10	-9.39	36.71	54	-17.29	AVG	H
2405	101.19	-9.33	91.86	114	-22.14	peak	H
2405	97.97	-9.33	88.64	94	-5.36	AVG	H
4810	51.37	-4.03	47.34	74	-26.66	peak	H
4810	38.32	-4.03	34.29	54	-19.71	AVG	H
7215	51.09	1.66	52.75	74	-21.25	peak	H
7215	37.54	1.66	39.20	54	-14.80	AVG	H
2390	58.81	-9.2	49.61	74	58.81	peak	V
2390	44.19	-9.2	34.99	54	44.19	AVG	V
2400	59.61	-9.39	50.22	74	59.61	peak	V
2400	46.83	-9.39	37.44	54	46.83	AVG	V
2405	94.73	-9.33	85.40	114	-28.60	peak	V
2405	92.93	-9.33	83.60	94	-10.40	AVG	V
4810	54.82	-4.03	50.79	74	-23.21	peak	V
4810	37.87	-4.03	33.84	54	-20.16	AVG	V
7215	50.53	1.66	52.19	74	-21.81	peak	V
7215	37.13	1.66	38.79	54	-15.21	AVG	V



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Test mode:		Transmitting		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2440	100.64	-9.33	91.31	114	-22.69	peak	H
2440	96.69	-9.33	87.36	94	-6.64	AVG	H
4880	52.50	-4.03	48.47	74	-25.53	peak	H
4880	38.91	-4.03	34.88	54	-19.12	AVG	H
7320	50.43	1.66	52.09	74	-21.91	peak	H
7320	36.87	1.66	38.53	54	-15.47	AVG	H
2440	97.30	-9.33	87.97	114	-26.03	peak	V
2440	90.77	-9.33	81.44	94	-12.56	AVG	V
4880	54.11	-4.03	50.08	74	-23.92	peak	V
4880	37.21	-4.03	33.18	54	-20.82	AVG	V
7320	50.11	1.66	51.77	74	-22.23	peak	V
7320	37.00	1.66	38.66	54	-15.34	AVG	V



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Test mode:		Transmitting		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2475	99.72	-9.23	90.49	114	-23.51	peak	H
2475	97.01	-9.23	87.78	94	-6.22	AVG	H
2483.5	60.00	-9.29	50.71	74	-23.29	Peak	H
2483.5	43.49	-9.29	34.20	54	-19.80	AVG	H
4950	55.22	-4.03	51.19	74	-22.81	peak	H
4950	43.64	-4.03	39.61	54	-14.39	AVG	H
7425	53.64	1.68	55.32	74	-18.68	peak	H
7425	37.61	1.68	39.29	54	-14.71	AVG	H
2475	96.03	-9.23	86.80	114	-27.20	peak	V
2475	95.43	-9.23	86.20	94	-7.80	AVG	V
2483.5	62.64	-9.29	53.35	74	-20.65	peak	V
2483.5	44.86	-9.29	35.57	54	-18.43	AVG	V
4950	55.21	-4.03	51.18	74	-22.82	peak	V
4950	41.31	-4.03	37.28	54	-16.72	AVG	V
7425	51.67	1.68	53.35	74	-20.65	peak	V
7425	36.66	1.68	38.34	54	-15.66	AVG	V

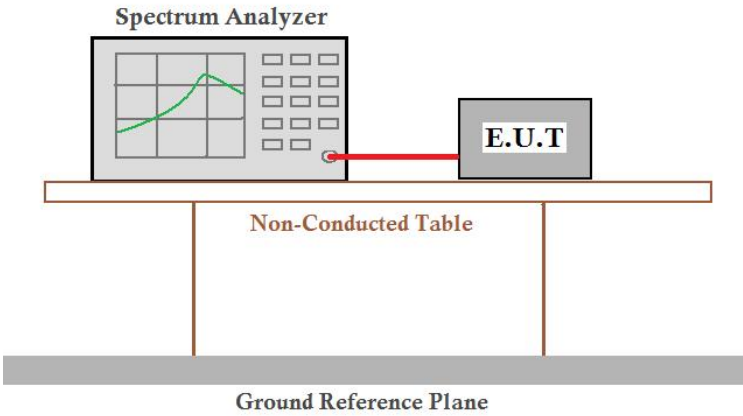
Remark:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$
- 2) Scan from 9kHz to 25GHz, The disturbance above 8GHz and 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 .

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4.3 20dB Bandwidth

Test Requirement:	RSS-Gen Section 6.7 47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013 & RSS-Gen Section 6.7
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.128	Pass
Middle	1.730	Pass
Highest	1.124	Pass

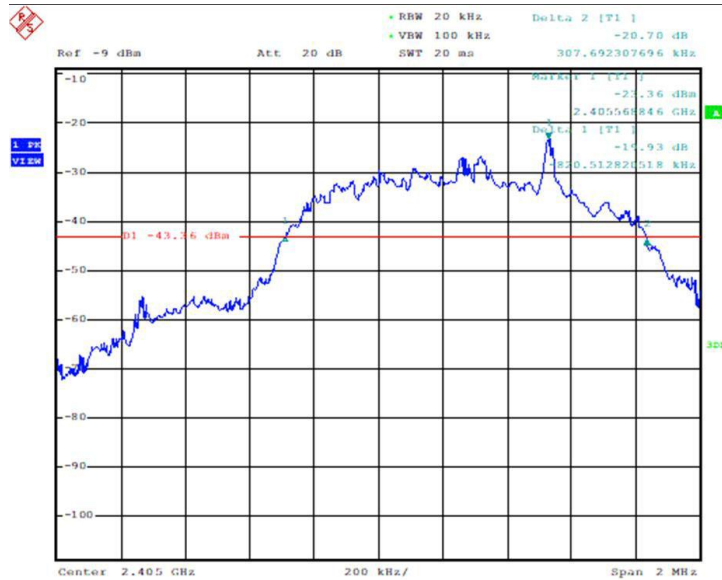


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TEST REPORT NUMBER: (8523)156-0342

Test plot as follows:

Test channel:	Lowest
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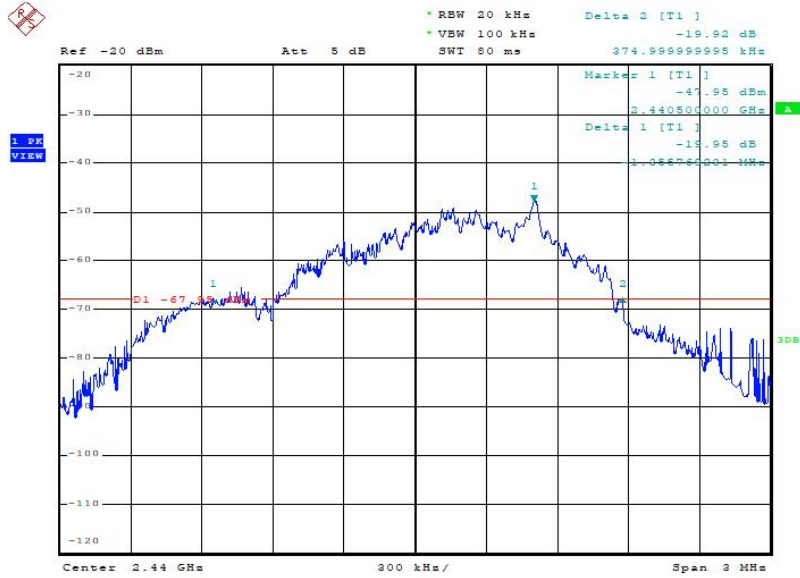
Date: 20.JUN.2023 16:04:55



BUREAU VERITAS

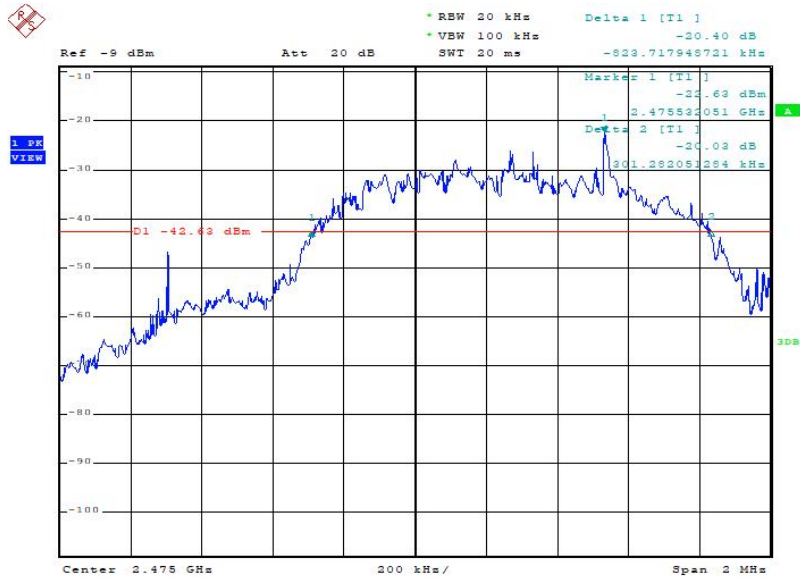
TEST REPORT NUMBER: (8523)156-0342

Test channel: Middle



Date: 20.JUN.2023 14:56:28

Test channel: Highest



Date: 20.JUN.2023 20:32:49

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TEST REPORT NUMBER: (8523)156-0342

5 Photographs

Please refer to the photos Appendix A

5.1 EUT Constructional Details

Please refer to the photos Appendix B

*** END OF REPORT ***