

APPLICATION FOR CERTIFICATION

On Behalf of

GoodWe Technologies Co., Ltd.

Smart DataLogger

Model No. : EzLogger3000C

Brand : GOODWE

FCC ID : 2AU7J-EZLOGGER3C

Prepared for

GoodWe Technologies Co., Ltd.

No.90 Zijin Rd., New District, Suzhou, 215011, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.

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Report Number : ACWE-F2305014

Date of Test : May 18~Aug.23, 2023

Date of Report : Aug.24, 2023

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TEST REPORT CERTIFICATION

Applicant : GoodWe Technologies Co., Ltd.
Manufacturer : GoodWe Technologies Co., Ltd.
EUT Description : Smart DataLogger
FCC ID : 2AU7J-EZLOGGER3C
(A) Model No. : EzLogger3000C
(B) Brand : GOODWE
(C) Test Voltage : AC 120V/60Hz

Applicable Standards:

Title 47 CFR FCC Part 15 Subpart C
ANSI C63.10:2020
KDB 558074 D01 DTS Meas Guidance v05r02

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: May 18~Aug.23, 2023

Date of Report: Aug.24, 2023

Prepared by

:



(Emma Hu/Assistant Administrator)

Approved & Authorized Signer

:



(Ken Lu/Vice General Manager)



1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
0	Aug.24, 2023	Original Report.	ACWE-F2305014

2. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

Rule	Description	Results
15.207	Conducted Emission	PASS
15.247(d)/ 15.205	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)(3)	Maximum Output Power	PASS
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	Peak Power Spectral Density	PASS
15.203	Antenna Requirement	Compliance

3. GENERAL INFORMATION

3.1. Description of Device (EUT)

Description	:	Smart DataLogger
Model No.	:	EzLogger3000C
FCC ID	:	2AU7J-EZLOGGER3C
Brand	:	GOODWE
Applicant	:	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, China
Manufacturer	:	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, China
Date of Receipt of Sample	:	Mar.28, 2023

3.2. Antenna Information

Type	Frequency (MHz)	Gain(dBi)
External PIFA	2400-2500	3.5

3.3. EUT Specification Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation
802.11b	2412-2462	11	DSSS (DBPSK/DQPSK/CCK)
802.11g	2412-2462	11	OFDM (BPSK/QPSK/16QAM/64QAM)
802.11n-HT20			
BLE-1M	2402-2480	40	GFSK
Remark: The information of test software, fixture and antenna gain is provided by customer.			

3.4. Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor
802.11b	0.97	0.12
802.11g	0.95	0.22
802.11n	0.91	0.43

3.5. Tested Supporting System Details (AE)

3.5.1. Notebook

Manufacturer/Brand : DELL
 Model Number : Vostro 14-5459
 Serial Number : 8P9C4K2

3.6. Description of Test Facility

Name of Firm	:	Audix Technology (Wujiang) Co., Ltd. EMC Dept.
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	No.2 Conducted Shielding Enclosure No.2 3m Semi-anechoic Chamber RF Fully Chamber
NVLAP Lab Code	:	200786-0 Valid until on Sep.30, 2023 (NVLAP is a signatory member of ILAC MRA) Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

3.7. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.2 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	$\pm 3.32\text{dB}$
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 1GHz	$\pm 4.89\text{dB}$
	1GHz ~ 6GHz	$\pm 4.85\text{dB}$
	6GHz ~ 18GHz	$\pm 4.94\text{dB}$

Test items	Uncertainty
Unwanted Emission(Conducted measurement)	$y(\text{dBm/Hz}) \pm U = y(\text{dBm/Hz}) \pm 0.33\text{dB}$
RF Output Power	$y(\text{dBm}) \pm U = y(\text{dBm}) \pm 0.98$
RF Frequency	$y(\text{Volt}) \pm U = y(\text{Volt}) \pm 10.84 \times 10^{-3}\text{Hz}$
Temperature and Humidity	$y(^{\circ}\text{C}) \pm U = y(^{\circ}\text{C}) \pm 0.424^{\circ}\text{C}$ $y(\%) \pm U = y(\%) \pm 2.00\%$
RF DC Voltage	$y(\text{Volt}) \pm U = y(\text{Volt}) \pm 0.026$
Power Density	$y(\text{dBm/Hz}) \pm U = y(\text{dBm/Hz}) \pm 1.956\text{dB}$
Radiated Spurious Emission(30MHz~1GHz)	$y(\text{dBm}) \pm U = y(\text{dBm}) \pm 4.42\text{dB}$
Radiated Spurious Emission(1GHz~26.5GHz)	$y(\text{dBm}) \pm U = y(\text{dBm}) \pm 3.46\text{dB}$

Remark: Uncertainty = $k_{uc}(y)$

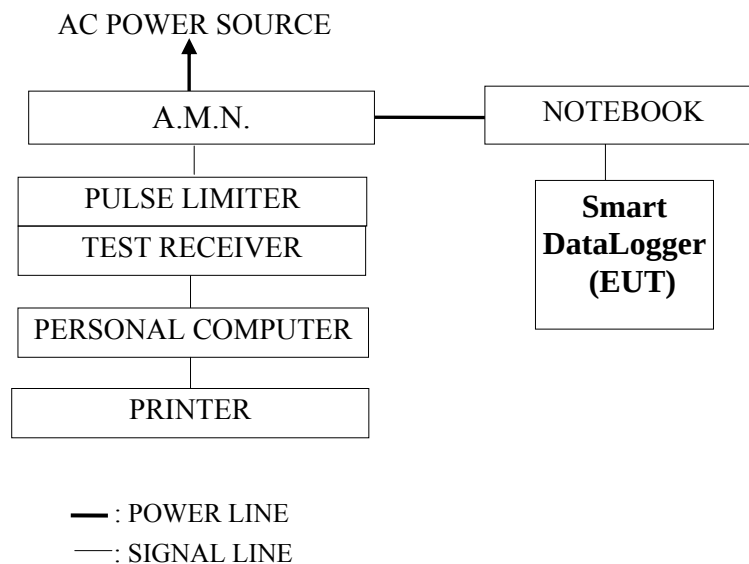
The standards listed in this report only require the uncertainty to be listed, and the measurement uncertainty is not required to be calculated in the measurement results. Therefore, the conformity judgment results are in accordance with the quality document TMC-205, and the test results in this report meet the requirements of the standards listed in this report.

4. CONDUCTED EMISSION MEASUREMENT

4.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	Test Receiver	R & S	ESCI	100839	2023-03-25	1 Year
2.	A.M.N.	Schwarzbeck	NNLK 8129	8129-164	2022-12-14	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1793-4	2023-03-25	1 Year
4.	I.S.N.	TESEQ	T800	58414	2023-03-25	1 Year
5.	Pulse Limiter	R&S	ESH3-Z2	101832	2022-12-14	1 Year
6.	50Ω Terminator	Tektronis	MS4630B	001-CON	2022-12-14	1 Year
7.	RF Cable	Shengxuan	ROS400	59/3	2022-12-14	1 Year
8.	Software	Audix /e3 (210616)				

4.2. Block Diagram of Test Setup



4.3. Power line Conducted Emission Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2: The lower limit applies at the band edges.

4.4. Test Procedure

The measuring process is according to ANSI C63.10-2020 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meter height above the ground plane, and 0.4 meter far away from the vertical plane. The mains cable of the EUT connected to one Artificial Main Network(AMN). All other unit of the EUT and AE connected to a second Line Impedance Stabilization Network(L.I.S.N.). The telecommunication cable connected to the AE through a Impedance Stabilization Network(ISN) which terminated a 50Ω resistor. For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω terminator. All measurements were done between the phase lead and the reference ground, and between the neutral lead and the reference ground. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss includes Pulse Att+Cable+Switch)

4.5. Conducted Emission Measurement Results

For FCC Part15 Subpart C

PASSED.

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date: Jun.01, 2023

Temperature: 19.2°C

Humidity: 43%

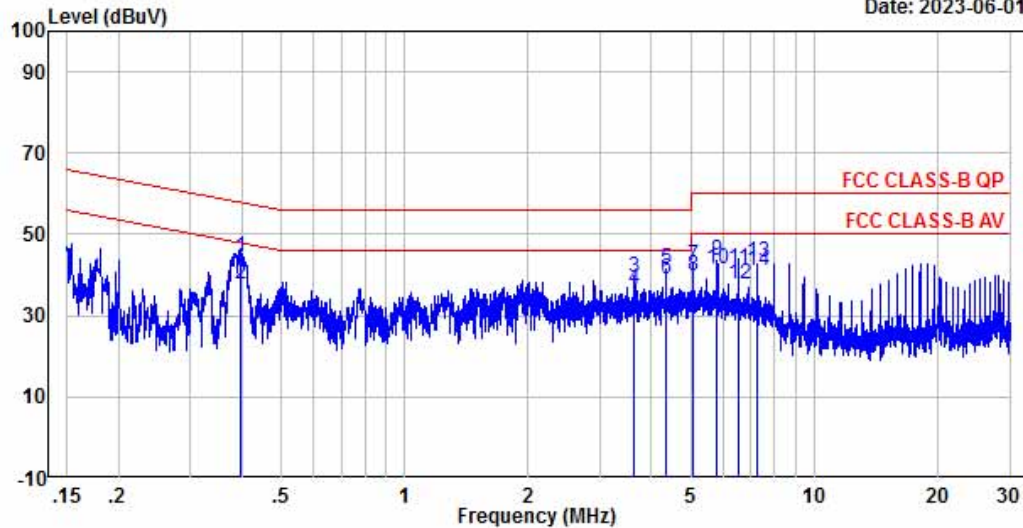
Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	TX Mode	# 2	# 1



Audix Technology (Wu Jiang) Co., Ltd
 No.1289, Jiang Xing East Road, The Eastern Part of WuJiang
 Economic Development Zone, JiangSu, China
 Tel : (0512) 63403993 Fax: (0512) 63403339

File: D:\TEST DATA\2023\Report\4\C1W2304038-RF\0_00002.EMI

Date: 2023-06-01



Site NO. : NO.2 shielded Room Ant. pol.: Neutral Data NO.:2
 Instrument 1 : Receiver ESCI (839)
 Instrument 2 : NNLK 8129(164) 59/3 ESH3-Z2 (832)
 Dis. / Ant. : NNLK8129-2212 Engineer : Shenyueqi
 Limit : FCC CLASS-B QP
 Env. / Ins. : 19.2°C & 43 %
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX Mode
 Memo :

Freq. MHz	LISN Factor dB	Cable Loss dB	Reading dBuV	Emission Level dBuV	Limits dBuV	Margin dB	Remark
0.397	0.10	9.88	34.35	44.33	57.92	13.59	QP
0.397	0.10	9.88	27.89	37.87	47.92	10.05	Average
3.620	0.10	9.97	29.50	39.57	56.00	16.43	QP
3.620	0.10	9.97	26.50	36.57	46.00	9.43	Average
4.343	0.10	9.98	31.50	41.58	56.00	14.42	QP
4.343	0.10	9.98	28.86	38.94	46.00	7.06	Average
5.068	0.10	9.98	32.43	42.51	60.00	17.49	QP
5.068	0.10	9.98	29.82	39.90	50.00	10.10	Average
5.790	0.14	9.99	33.55	43.68	60.00	16.32	QP
5.790	0.14	9.99	31.45	41.58	50.00	8.42	Average
6.518	0.18	10.00	31.25	41.43	60.00	18.57	QP
6.518	0.18	10.00	27.52	37.70	50.00	12.30	Average
7.237	0.21	10.01	32.74	42.96	60.00	17.04	QP
7.237	0.21	10.01	30.64	40.86	50.00	9.14	Average

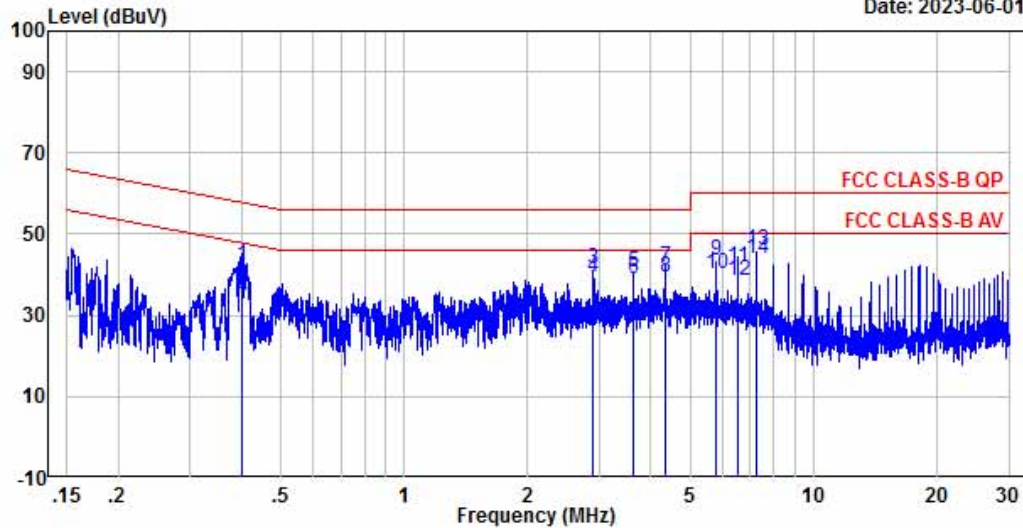
Remarks: Emission Level = LISN factor + Cable loss (Cable + Pulse Att + Switch) + Reading



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Tel : (0512) 63403993 Fax: (0512) 63403339

File: D:\TEST DATA\2023\Report\4\1W2304038-RF\0_00001.EMI

Date: 2023-06-01



Site NO. : NO.2 shielded Room
Instrument 1 : Receiver ESCI (839)
Instrument 2 : NNLK 8129(164)|59/3|ESH3-Z2 (832)
Dis. / Ant. : NNLK8129-2212
Limit : FCC CLASS-B QP
Env. / Ins. : 19.2°C & 43 %
EUT : Smart DataLogger
M/N : EzLogger3000C
Power Rating : 120Vac/60Hz
Test Mode : TX Mode
Memo :

Ant. pol.: Line1

Data NO.:1

Engineer : Shenyueqi

Freq. MHz	LISN Factor dB	Cable Loss dB	Reading dBuV	Emission Level dBuV	Limits dBuV	Margin dB	Remark
0.403	0.10	9.89	32.51	42.50	57.79	15.29	QP
0.403	0.10	9.89	25.39	35.38	47.79	12.41	Average
2.896	0.10	9.97	31.60	41.67	56.00	14.33	QP
2.896	0.10	9.97	29.23	39.30	46.00	6.70	Average
3.623	0.10	9.97	30.67	40.74	56.00	15.26	QP
3.623	0.10	9.97	28.72	38.79	46.00	7.21	Average
4.343	0.10	9.98	31.99	42.07	56.00	13.93	QP
4.343	0.10	9.98	29.23	39.31	46.00	6.69	Average
5.790	0.14	9.99	33.23	43.36	60.00	16.64	QP
5.790	0.14	9.99	30.15	40.28	50.00	9.72	Average
6.512	0.18	10.00	31.83	42.01	60.00	17.99	QP
6.512	0.18	10.00	28.44	38.62	50.00	11.38	Average
7.242	0.21	10.01	35.69	45.91	60.00	14.09	QP
7.242	0.21	10.01	33.57	43.79	50.00	6.21	Average

Remarks: Emission Level = LISN factor + Cable loss (Cable + Pulse Att + Switch) + Reading

5. RADIATED EMISSION MEASUREMENT

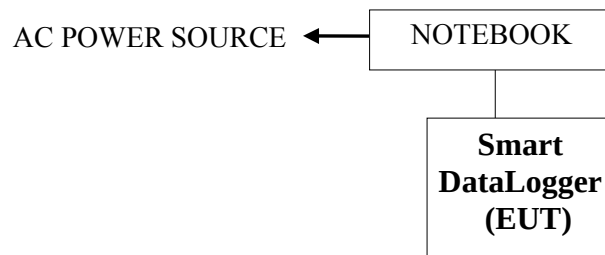
5.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Period
1.	Preamplifier	Agilent	8447D	2944A10922	2023-03-25	1 Year
2.	PXA signal analyzer	Agilent	N9030A	MY53120367	2022-07-25	1 Year
3.	Bi-log Antenna	SCHWARZBECK	VULB 9168	706	2023-03-12	1 Year
4.	Horn Antenna	ETS	3117	00218586	2023-03-13	1 Year
5.	Microwave Preamplifier	Agilent	8449B	3008A02234	2023-03-25	1 Year
6.	EMI Test Receiver	R&S	ESR7	101956	2023-03-25	1 Year
7.	RF Cable	Chengyi+Shengxuan	NM500+ROS400	190945+6000+3000	2022-08-12	1 Year
8.	RF Cable	Chengyi	EMC104-SF-SM-8000/NM-1000	190938+190942	2022-08-12	1 Year
9.	Software	Audix /e3 (210616)				

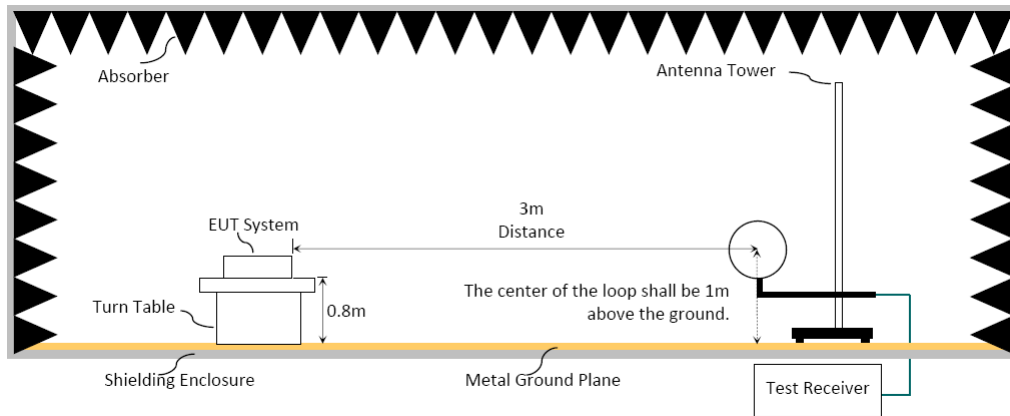
5.2. Block Diagram of Test Setup

5.2.1. Block Diagram of Test Setup between EUT and simulators

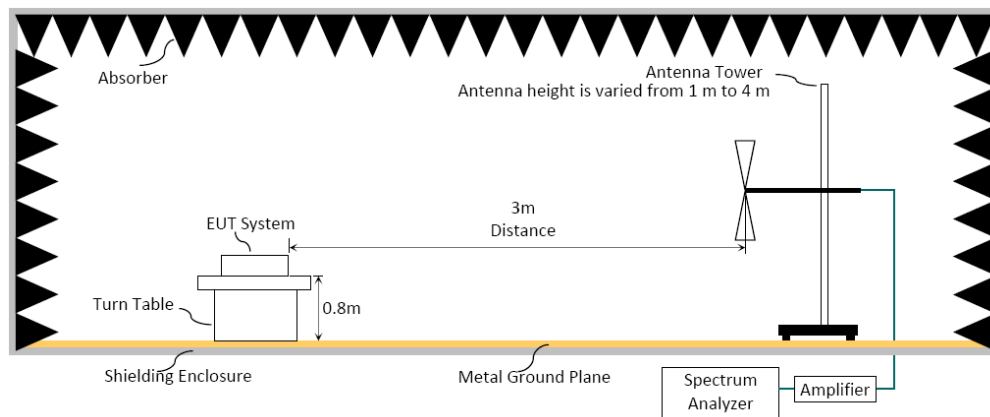


— : POWER LINE
— : SIGNAL LINE

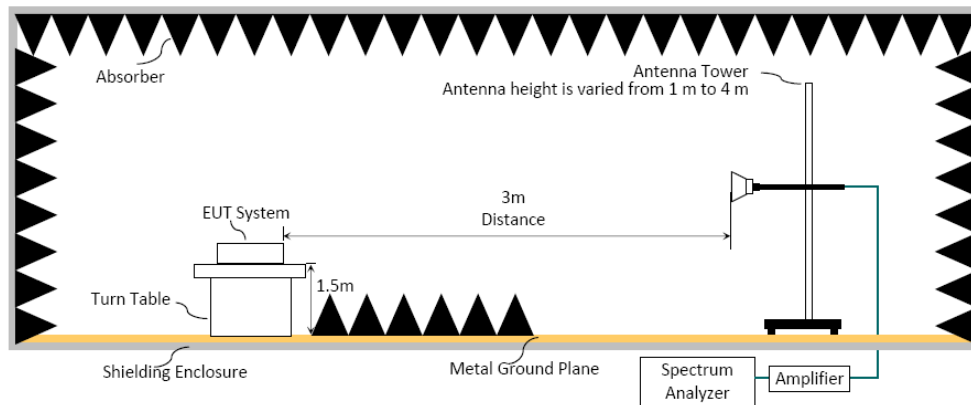
5.2.2. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 9kHz-30MHz



5.2.3. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for 30MHz-1GHz



5.2.4. No. 2 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for Above 1GHz



5.3. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6-20 log f(kHz)	2400/f kHz
0.490 - 1.705	30	87.6-20 log f(kHz)	24000/f kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark: (1) dB μ V/m = 20 log (μ V/m)

(2)The tighter limit applies to the edge between two frequency bands.

(3)Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4)Fundamental and emission fall within operation band are exempted from this section.

(5)Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

5.4. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level.

In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)
Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required, otherwise using Q.P. for final measurement.

Frequency above 1GHz to 10th harmonic (up to 25GHz):

Peak Dector:

- (1)RBW = 1MHz
- (2)VBW $\geq 3 \times$ RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the average detector is not required, otherwise using average detector for final measurement.

5.5. Measurement Results

PASSED

The EUT was tested in restricted bands and all the test results are listed in next page.

The frequency range from 9kHz to 10th harmonic(25GHz) are checked, and the emission (9kHz~30MHz,18GHz~25GHz)not reported for there is no emission be found.

5.5.1. Emission Measurement Results (For Below 1GHz)

Site NO. : NO.2 3M Chamber
 Instrument 1 : Receiver ESR7 (956)
 Instrument 2 : Preamplifier 8447D(922)|400
 Dis. / Ant. : 9168-706-2304-3M
 Limit : FCC PART 15B QP
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Horizontal Data NO.:28
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
32.910	18.70	0.42	32.91	28.61	23.42	40.00	16.58	QP
149.310	19.09	0.88	32.70	28.15	24.52	43.50	18.98	QP
250.190	17.81	1.16	40.85	27.90	31.92	46.00	14.08	QP
299.660	19.29	1.29	47.41	27.80	40.19	46.00	5.81	QP
549.920	24.60	1.76	28.24	28.85	25.75	46.00	20.25	QP
749.740	27.65	2.14	26.05	28.75	27.09	46.00	18.91	QP

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Receiver ESR7 (956)
 Instrument 2 : Preamplifier 8447D(922)|400
 Dis. / Ant. : 9168-706-2304-3M
 Limit : FCC PART 15B QP
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 2.4GHz
 Memo :

Ant. pol.: Vertical Data NO.:27

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
55.220	19.44	0.57	35.33	28.72	26.62	40.00	13.38	QP
124.090	17.07	0.81	39.28	28.23	28.93	43.50	14.57	QP
250.190	17.81	1.16	37.73	27.90	28.80	46.00	17.20	QP
299.660	19.29	1.29	47.25	27.80	40.03	46.00	5.97	QP
350.100	20.40	1.38	36.83	28.00	30.61	46.00	15.39	QP
549.920	24.60	1.76	32.94	28.85	30.45	46.00	15.55	QP

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

5.5.2. Emission Measurement Results (For Above 1GHz)

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 84498(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:1
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	49.19	33.20	48.29	74.00	25.71	Peak
1000.010	29.60	2.70	46.96	33.20	46.06	54.00	7.94	Average
4824.010	33.93	5.78	35.24	31.76	43.19	54.00	10.81	Average
4825.000	33.93	5.78	40.19	31.76	48.14	74.00	25.86	Peak
7236.775	35.60	7.59	34.98	31.62	46.55	54.00	7.45	Average
7239.000	35.60	7.60	40.24	31.62	51.82	74.00	22.18	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:2

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
3617.975	33.02	4.91	42.57	31.83	48.67	54.00	5.33	Average
3618.000	33.02	4.91	45.37	31.83	51.47	74.00	22.53	Peak
4824.000	33.93	5.78	39.72	31.76	47.67	54.00	6.33	Average
4825.000	33.93	5.78	42.10	31.76	50.05	74.00	23.95	Peak
7236.760	35.60	7.59	38.63	31.62	50.20	54.00	3.80	Average
7239.000	35.60	7.60	41.93	31.62	53.51	74.00	20.49	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11b	Frequency	TX 2462MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:4
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	48.79	33.20	47.89	74.00	26.11	Peak
1000.100	29.60	2.70	46.74	33.20	45.84	54.00	8.16	Average
1119.000	29.12	2.76	48.65	33.12	47.41	74.00	26.59	Peak
1125.000	29.10	2.76	46.74	33.11	45.49	54.00	8.51	Average
4924.005	33.97	5.78	39.13	31.78	47.10	54.00	6.90	Average
4927.000	33.97	5.78	41.41	31.79	49.37	74.00	24.63	Peak
7386.540	35.60	7.86	36.12	31.64	47.94	54.00	6.06	Average
7392.000	35.60	7.87	40.65	31.64	52.48	74.00	21.52	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:3

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
3686.000	33.09	4.92	44.03	31.79	50.25	74.00	23.75	Peak
3693.000	33.09	4.92	41.49	31.78	47.72	54.00	6.28	Average
4923.960	33.97	5.78	41.67	31.78	49.64	54.00	4.36	Average
4927.000	33.97	5.78	44.97	31.79	52.93	74.00	21.07	Peak
7385.140	35.60	7.86	38.08	31.64	49.90	54.00	4.10	Average
7392.000	35.60	7.87	42.67	31.64	54.50	74.00	19.50	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2412MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:6
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	49.76	33.20	48.86	74.00	25.14	Peak
1000.010	29.60	2.70	46.74	33.20	45.84	54.00	8.16	Average
1119.000	29.12	2.76	49.94	33.12	48.70	74.00	25.30	Peak
1125.000	29.10	2.76	46.64	33.11	45.39	54.00	8.61	Average
10308.910	37.35	8.81	34.22	32.05	48.33	54.00	5.67	Average
10316.000	37.35	8.82	36.39	32.06	50.50	74.00	23.50	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:7

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
3617.980	33.02	4.91	42.70	31.83	48.80	54.00	5.20	Average
3618.000	33.02	4.91	45.85	31.83	51.95	74.00	22.05	Peak
4824.880	33.93	5.78	29.64	31.76	37.59	54.00	16.41	Average
4825.000	33.93	5.78	42.45	31.76	50.40	74.00	23.60	Peak
7238.521	35.60	7.59	29.77	31.62	41.34	54.00	12.66	Average
7239.000	35.60	7.60	40.96	31.62	52.54	74.00	21.46	Peak

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11g	Frequency	TX 2462MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:9
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	49.24	33.20	48.34	74.00	25.66	Peak
1000.000	29.60	2.70	46.87	33.20	45.97	54.00	8.03	Average
1119.000	29.12	2.76	48.13	33.12	46.89	74.00	27.11	Peak
1124.990	29.10	2.76	46.71	33.11	45.46	54.00	8.54	Average
12040.000	38.71	8.67	23.41	31.81	38.98	54.00	15.02	Average
12050.000	38.71	8.68	36.16	31.81	51.74	74.00	22.26	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:8

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
3686.000	33.09	4.92	44.35	31.79	50.57	74.00	23.43	Peak
3692.990	33.09	4.92	41.64	31.78	47.87	54.00	6.13	Average
4926.880	33.97	5.78	30.23	31.79	38.19	54.00	15.81	Average
4927.000	33.97	5.78	40.47	31.79	48.43	74.00	25.57	Peak
7375.000	35.60	7.84	40.52	31.64	52.32	74.00	21.68	Peak
7379.060	35.60	7.84	28.41	31.64	40.21	54.00	13.79	Average

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Mode	802.11nHT20	Frequency	TX 2412MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:11
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	48.18	33.20	47.28	74.00	26.72	Peak
1000.005	29.60	2.70	46.62	33.20	45.72	54.00	8.28	Average
1119.000	29.12	2.76	49.72	33.12	48.48	74.00	25.52	Peak
1125.040	29.10	2.76	46.54	33.11	45.29	54.00	8.71	Average
6354.264	35.41	6.93	28.67	31.54	39.47	54.00	14.53	Average
6355.000	35.41	6.94	38.04	31.54	48.85	74.00	25.15	Peak

Remarks:Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:10

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
3617.960	33.02	4.91	43.19	31.83	49.29	54.00	4.71	Average
3618.000	33.02	4.91	45.55	31.83	51.65	74.00	22.35	Peak
4825.000	33.93	5.78	41.92	31.76	49.87	74.00	24.13	Peak
7238.154	35.60	7.59	28.48	31.62	40.05	54.00	13.95	Average
7239.000	35.60	7.60	39.81	31.62	51.39	74.00	22.61	Peak

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

Mode	802.11nHT20	Frequency	TX 2462MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:13
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1000.000	29.60	2.70	48.48	33.20	47.58	74.00	26.42	Peak
1000.000	29.60	2.70	46.66	33.20	45.76	54.00	8.24	Average
1119.000	29.12	2.76	49.25	33.12	48.01	74.00	25.99	Peak
1125.005	29.10	2.76	46.48	33.11	45.23	54.00	8.77	Average
1901.000	31.05	3.39	47.44	32.57	49.31	74.00	24.69	Peak
1901.240	31.05	3.39	38.59	32.57	40.46	54.00	13.54	Average

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart Datalogger
 M/N : Ezlogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:12

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
1884.000	30.90	3.37	47.84	32.58	49.53	74.00	24.47	Peak
1886.880	30.93	3.38	31.25	32.58	32.98	54.00	21.02	Average
3682.985	33.08	4.92	41.82	31.79	48.03	54.00	5.97	Average
3686.000	33.09	4.92	43.32	31.79	49.54	74.00	24.46	Peak
7375.000	35.60	7.84	40.46	31.64	52.26	74.00	21.74	Peak
7388.420	35.60	7.86	28.21	31.64	40.03	54.00	13.97	Average

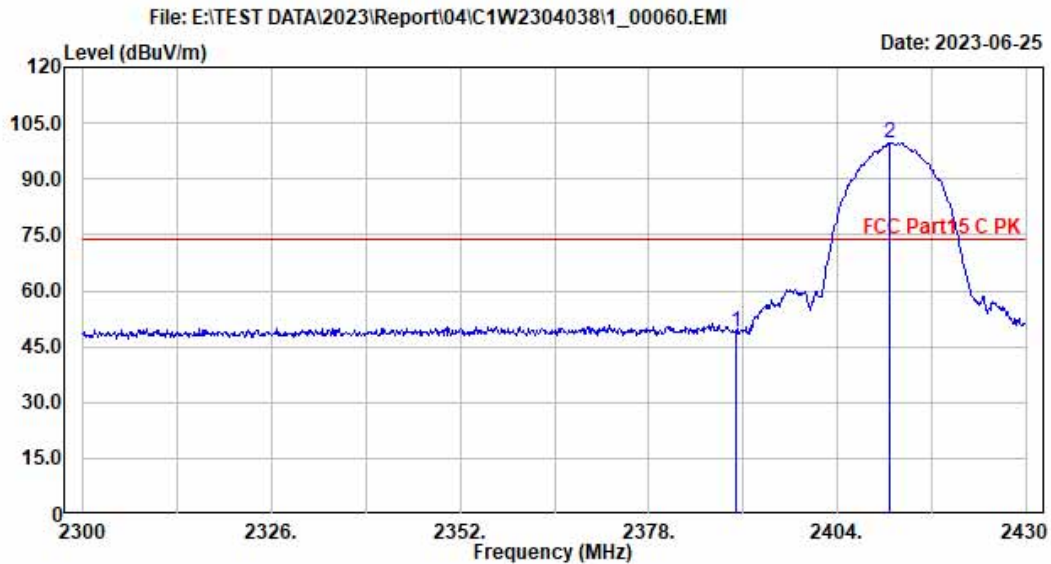
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

5.5.3. Spurious Emission Measurement Results in Band Edge Emission

Mode	802.11b	Frequency	TX 2412MHz
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Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:60

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	47.79	34.96	48.70	74.00	25.30	Peak
2411.150	32.15	3.75	98.85	34.93	99.82	74.00	-25.82	Peak

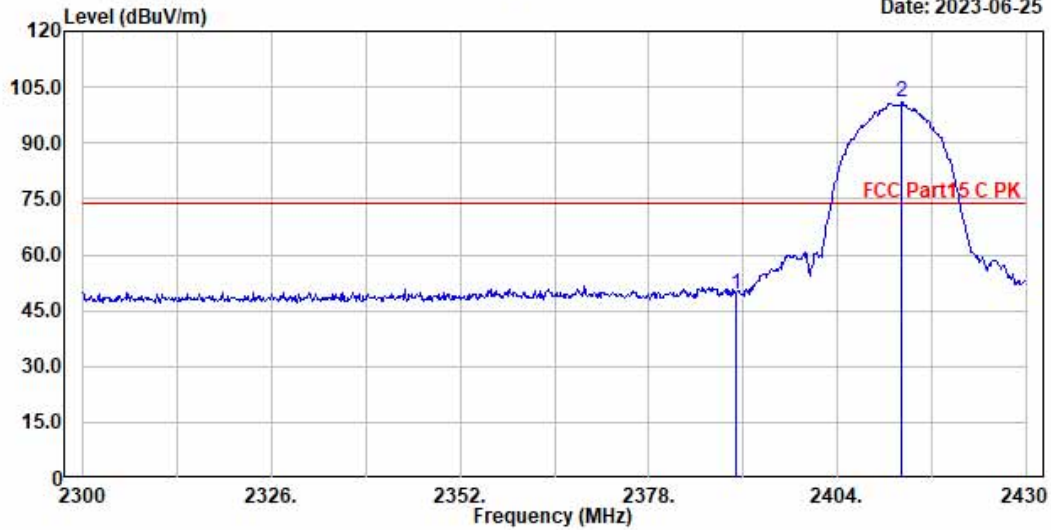
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00059.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:59
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	48.45	34.96	49.36	74.00	24.64	Peak
2412.840	32.15	3.76	99.85	34.93	100.83	74.00	-26.83	Peak

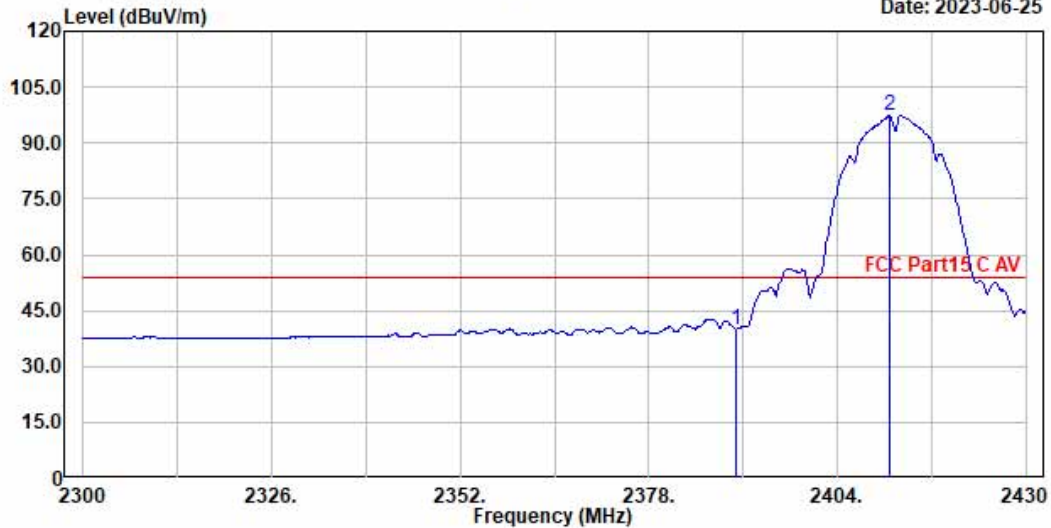
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00061.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:61
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	39.13	34.96	40.04	54.00	13.96	Average
2411.150	32.15	3.75	96.35	34.93	97.32	54.00	-43.32	Average

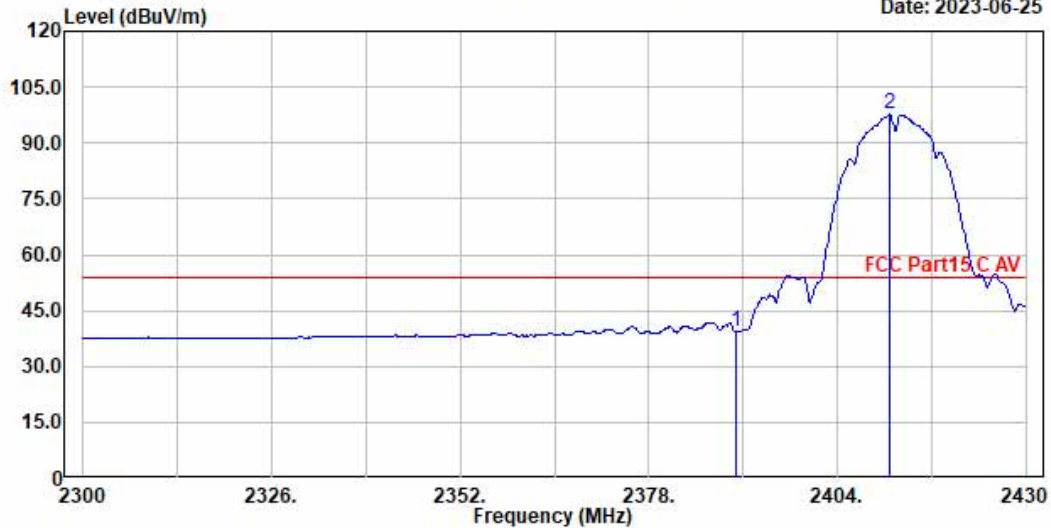
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00062.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:62
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	38.42	34.96	39.33	54.00	14.67	Average
2411.150	32.15	3.75	96.66	34.93	97.63	54.00	-43.63	Average

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor

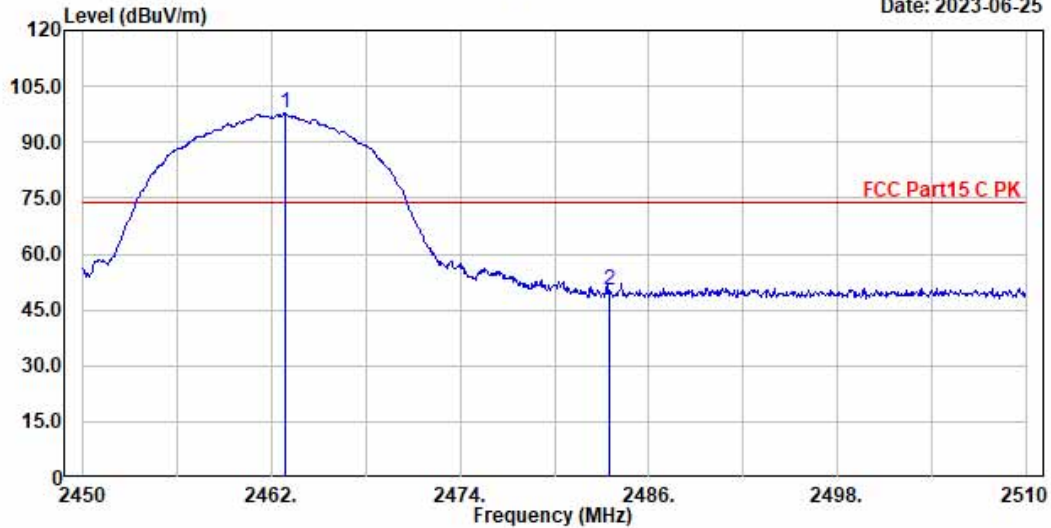
Mode	802.11b	Frequency	TX 2462MHz
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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00064.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:64

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2462.900	32.18	3.79	96.53	34.87	97.63	74.00	-23.63	Peak
2483.500	32.19	3.80	48.95	34.85	50.09	74.00	23.91	Peak

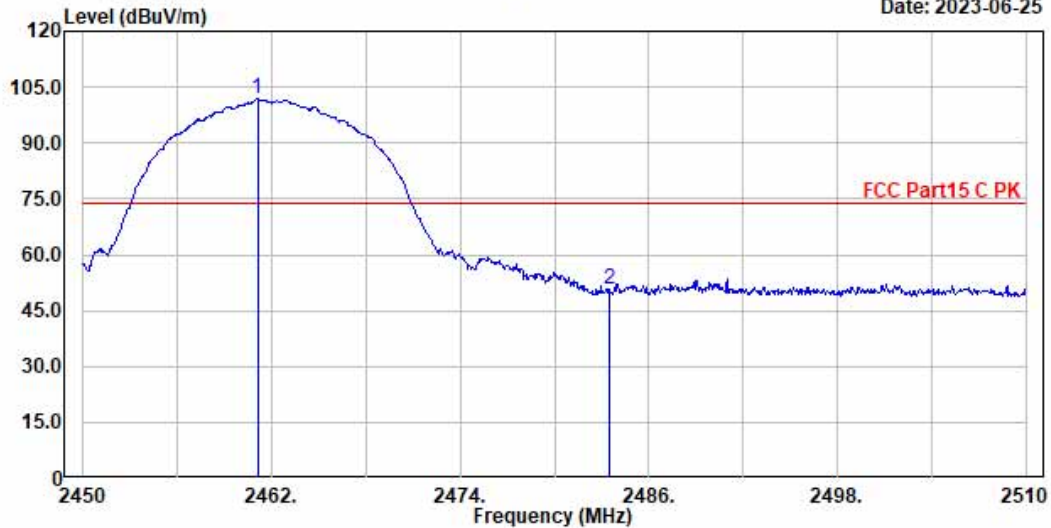
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00063.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber Ant. pol.: Vertical Data NO.:63
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304 Engineer : Xuweifei
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.100	32.18	3.79	100.63	34.87	101.73	74.00	-27.73	Peak
2483.500	32.19	3.80	49.59	34.85	50.73	74.00	23.27	Peak

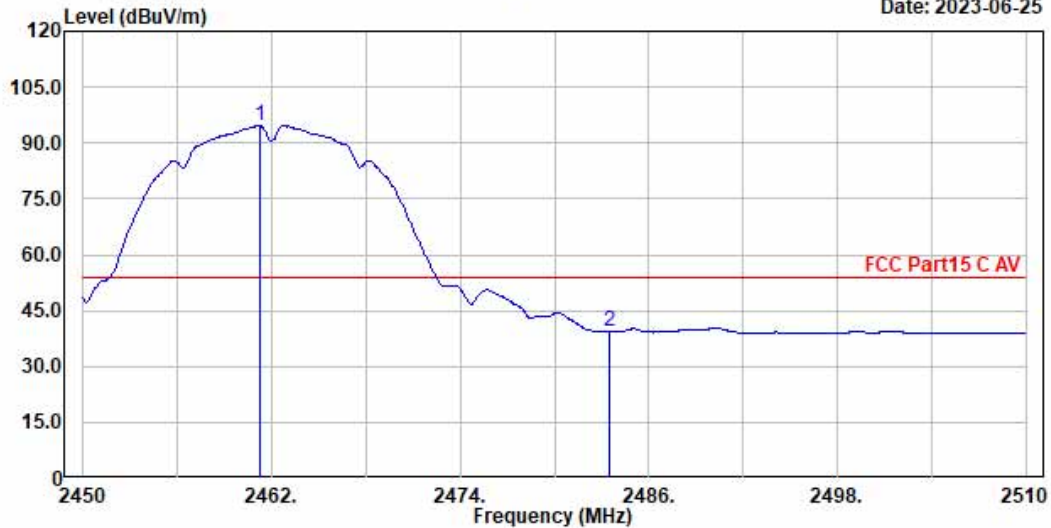
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00065.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:65

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.220	32.18	3.79	93.64	34.87	94.74	54.00	-40.74	Average
2483.500	32.19	3.80	38.13	34.85	39.27	54.00	14.73	Average

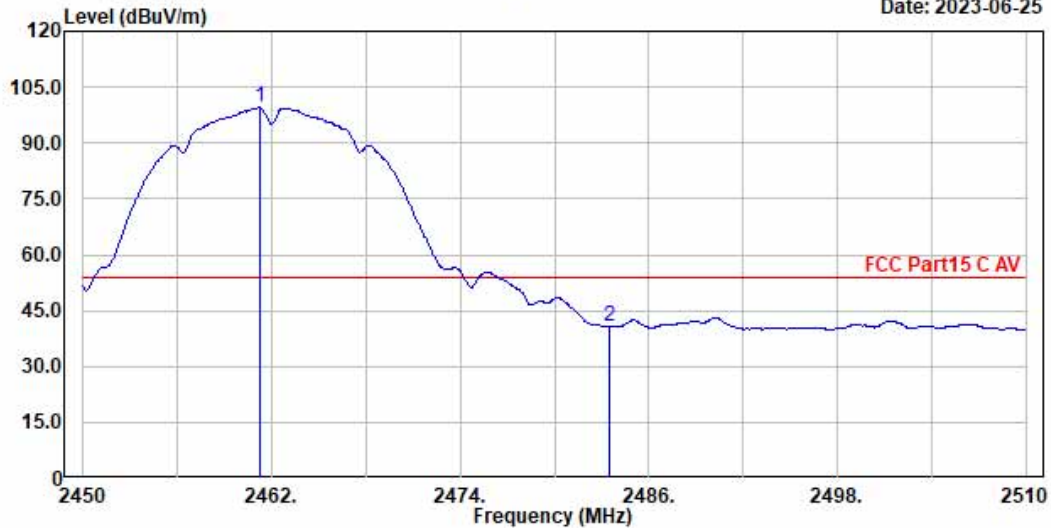
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00066.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11b 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:66
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2461.220	32.18	3.79	98.41	34.87	99.51	54.00	-45.51	Average
2483.500	32.19	3.80	39.45	34.85	40.59	54.00	13.41	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

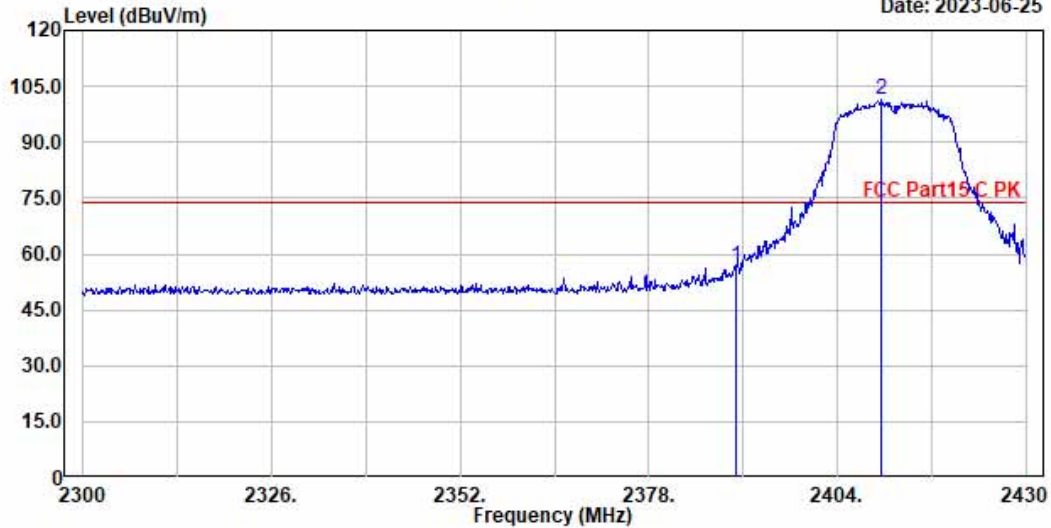
Mode	802.11g	Frequency	TX 2412MHz
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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00046.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:46

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	53.53	32.80	56.60	74.00	17.40	Peak
2409.980	32.15	3.75	98.49	32.80	101.59	74.00	-27.59	Peak

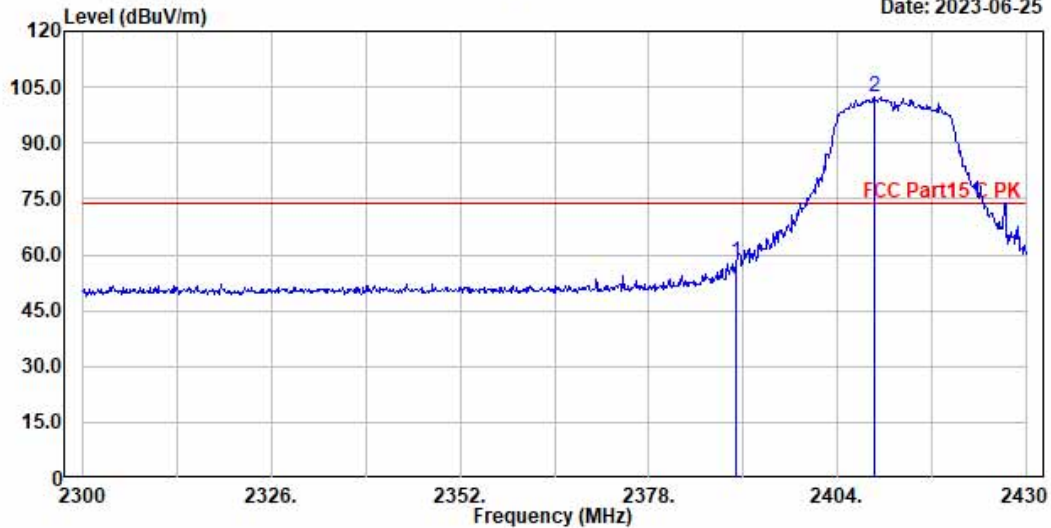
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00045.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:45
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	54.87	32.80	57.94	74.00	16.06	Peak
2409.070	32.15	3.75	99.30	32.80	102.40	74.00	-28.40	Peak

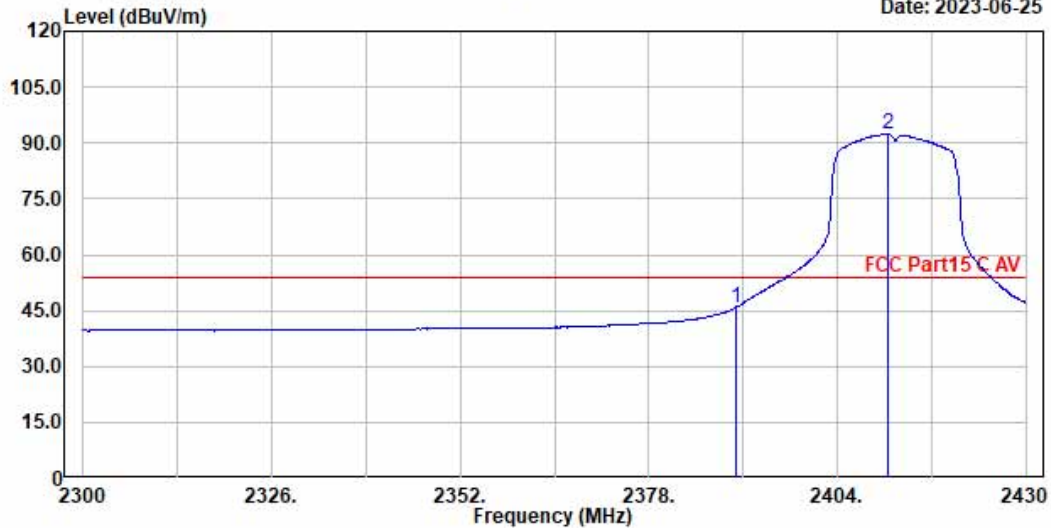
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00043.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:43
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	42.78	32.80	45.85	54.00	8.15	Average
2410.890	32.15	3.75	89.21	32.80	92.31	54.00	-38.31	Average

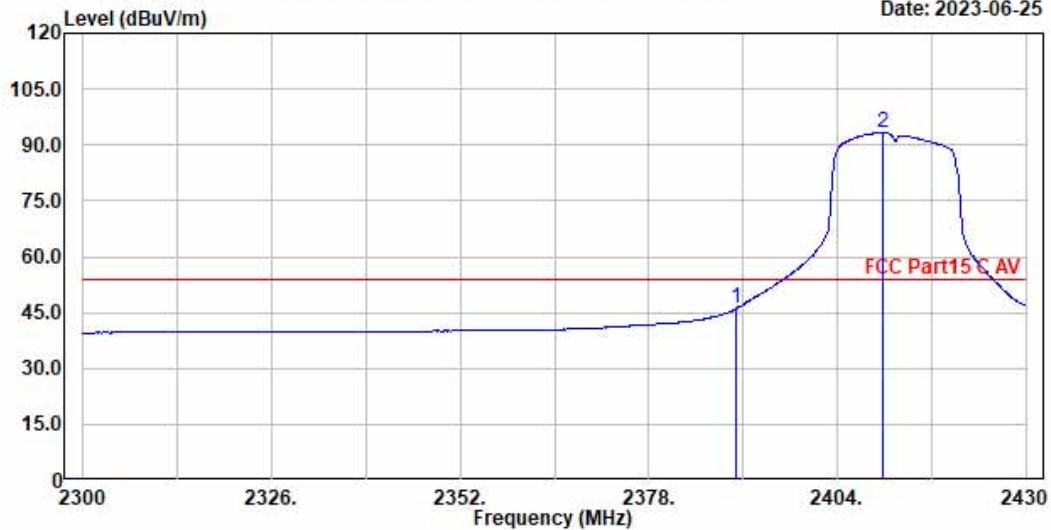
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:44
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	42.98	32.80	46.05	54.00	7.95	Average
2410.370	32.15	3.75	90.10	32.80	93.20	54.00	-39.20	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

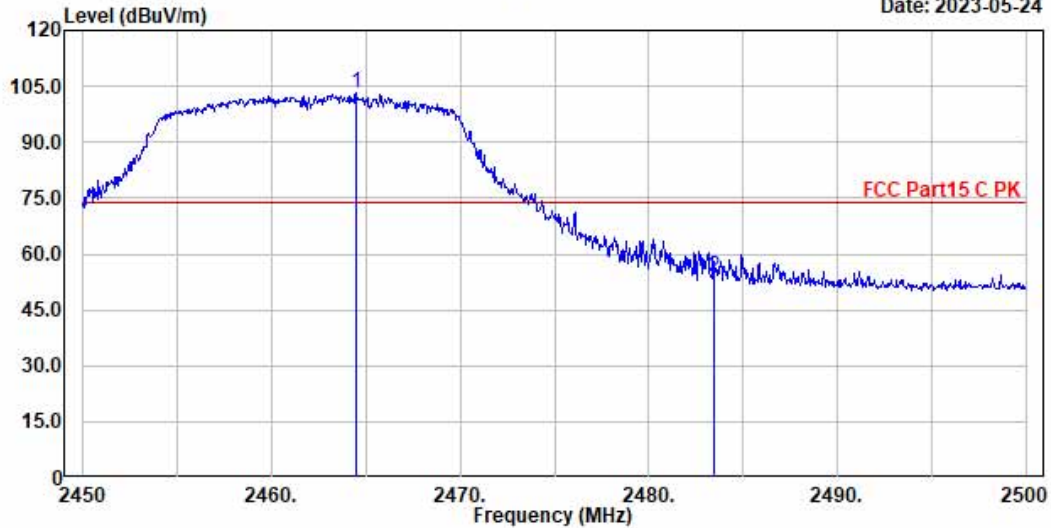
Mode	802.11g	Frequency	TX 2462MHz
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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00047.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:47

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2464.450	32.18	3.79	99.99	32.80	103.16	74.00	-29.16	Peak
2483.500	32.19	3.80	50.84	32.80	54.03	74.00	19.97	Peak

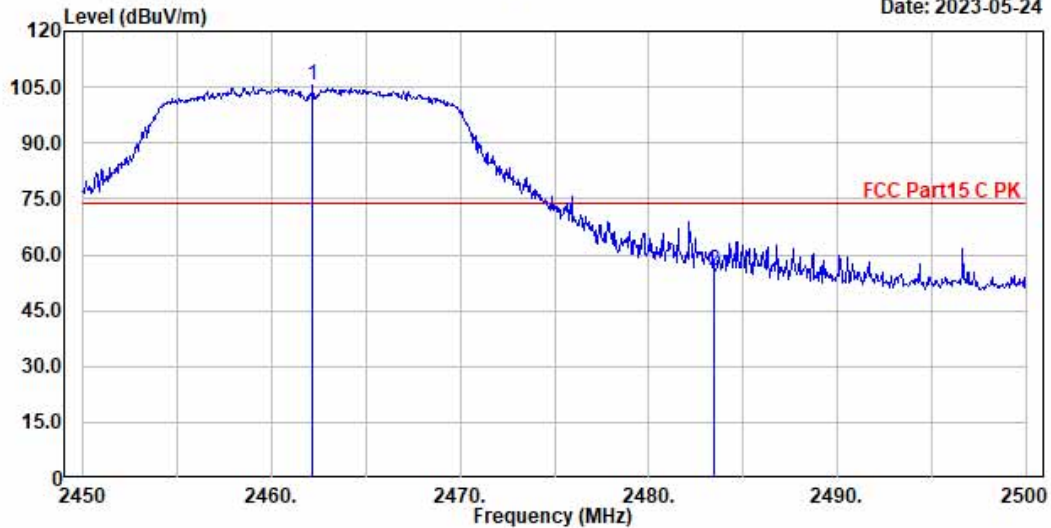
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00048.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber Ant. pol.: Vertical Data NO.:48
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304 Engineer : Xuweifei
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2462.200	32.18	3.79	102.24	32.80	105.41	74.00	-31.41	Peak
2483.500	32.19	3.80	52.72	32.80	55.91	74.00	18.09	Peak

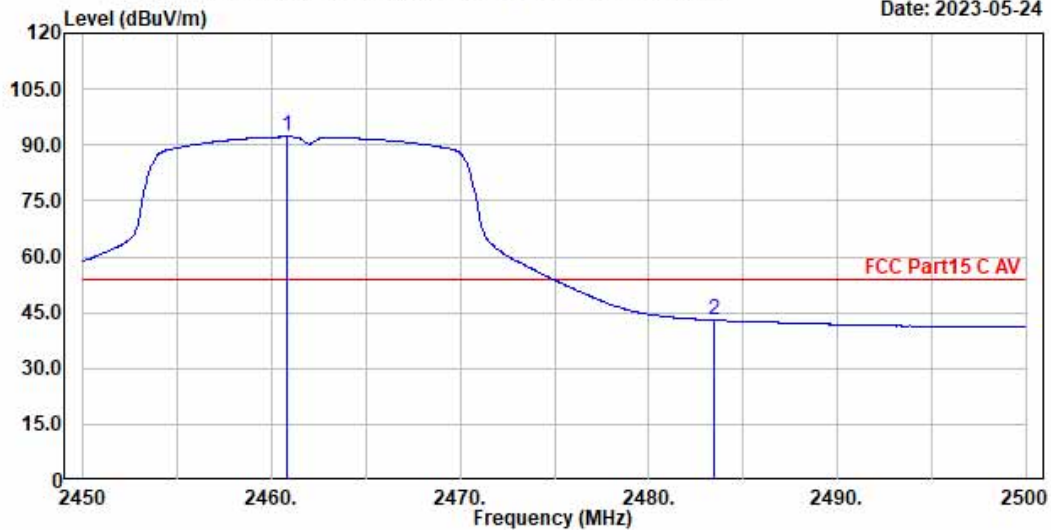
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00050.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:50

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2460.850	32.18	3.79	89.06	32.80	92.23	54.00	-38.23	Average
2483.500	32.19	3.80	39.79	32.80	42.98	54.00	11.02	Average

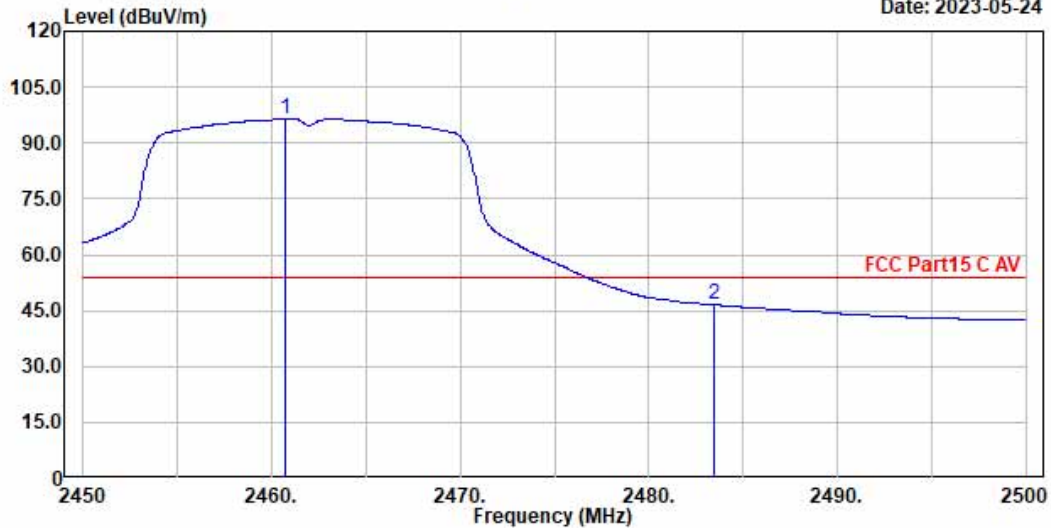
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00049.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11g 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:49
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2460.750	32.18	3.79	93.37	32.80	96.54	54.00	-42.54	Average
2483.500	32.19	3.80	43.34	32.80	46.53	54.00	7.47	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

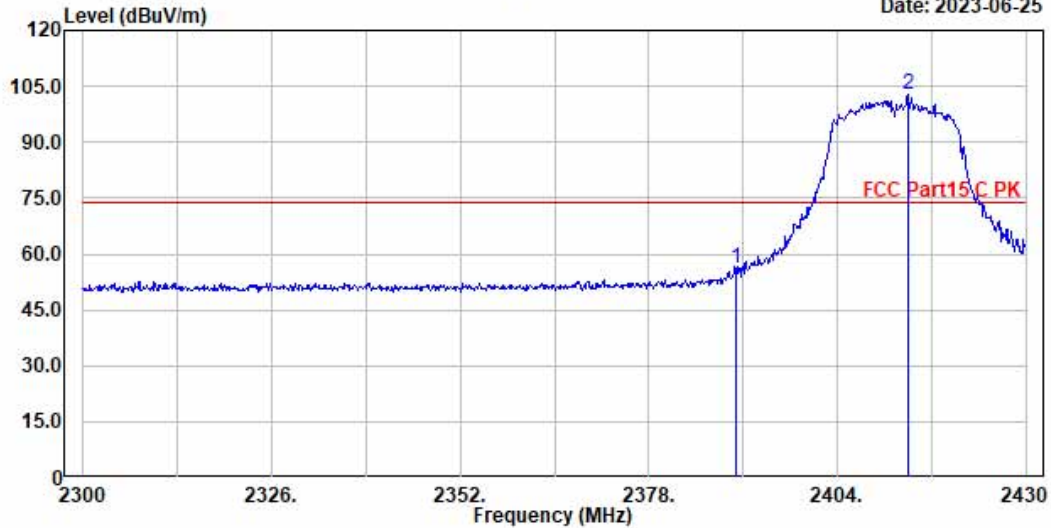
Mode	802.11nHT20	Frequency	TX 2412MHz
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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00051.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:51
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	52.95	32.80	56.02	74.00	17.98	Peak
2413.750	32.15	3.76	99.62	32.80	102.73	74.00	-28.73	Peak

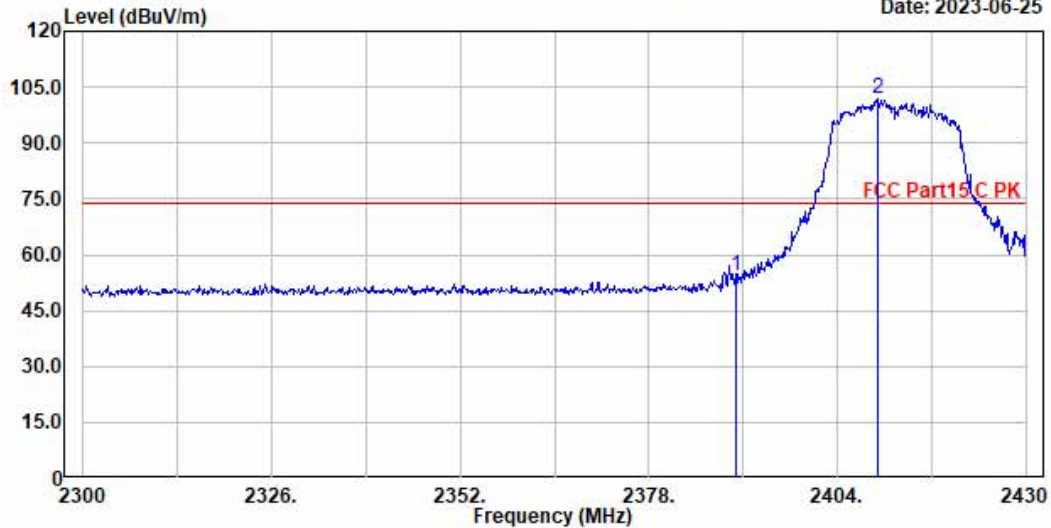
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00052.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:52
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	51.21	32.80	54.28	74.00	19.72	Peak
2409.460	32.15	3.75	98.95	32.80	102.05	74.00	-28.05	Peak

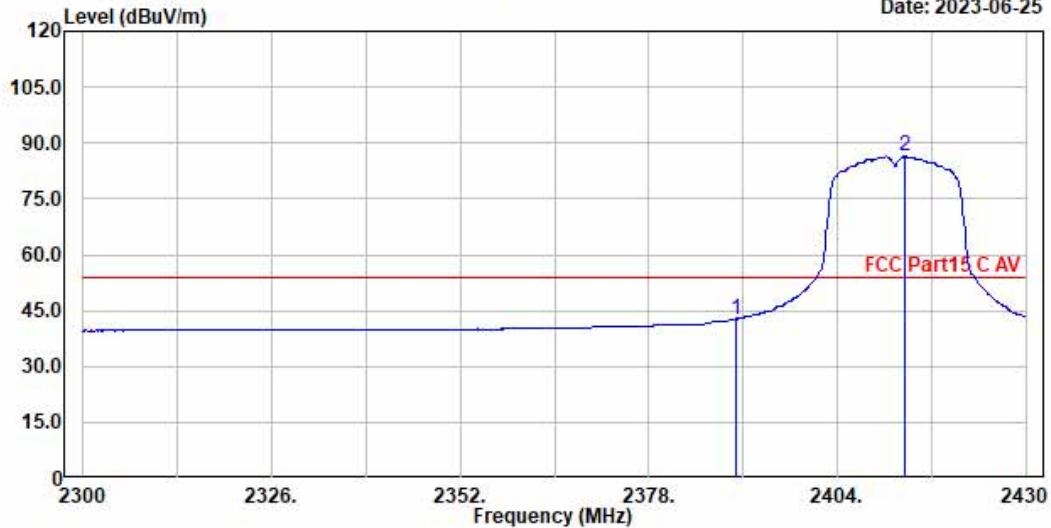
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00054.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:54

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	39.67	32.80	42.74	54.00	11.26	Average
2413.230	32.15	3.76	83.24	32.80	86.35	54.00	-32.35	Average

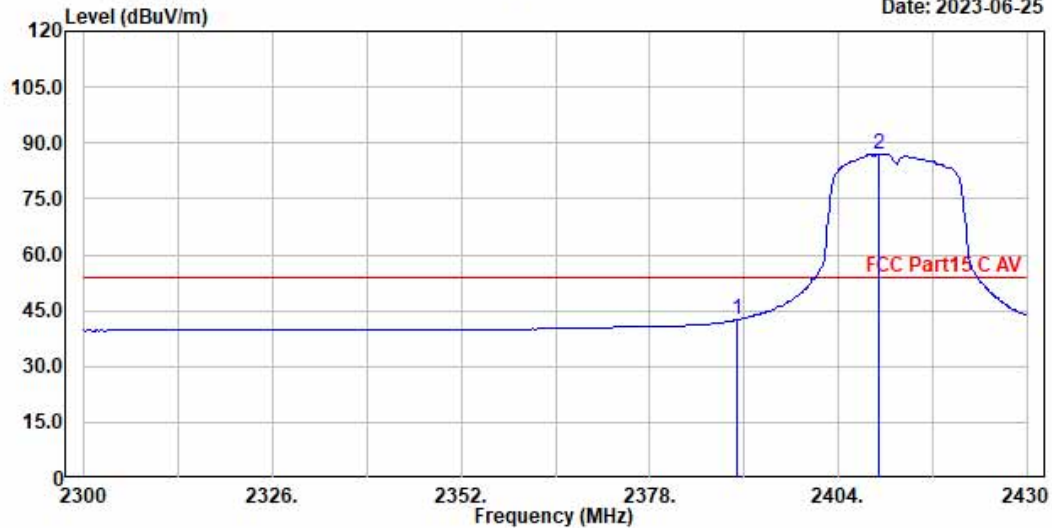
Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00053.EMI

Date: 2023-06-25



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2412MHZ
 Memo :

Ant. pol.: Vertical Data NO.:53
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2390.000	32.13	3.74	39.48	32.80	42.55	54.00	11.45	Average
2409.590	32.15	3.75	83.95	32.80	87.05	54.00	-33.05	Average

Remarks: Emission Level = Antenna factor + Cable loss + Reading - Preamp Factor

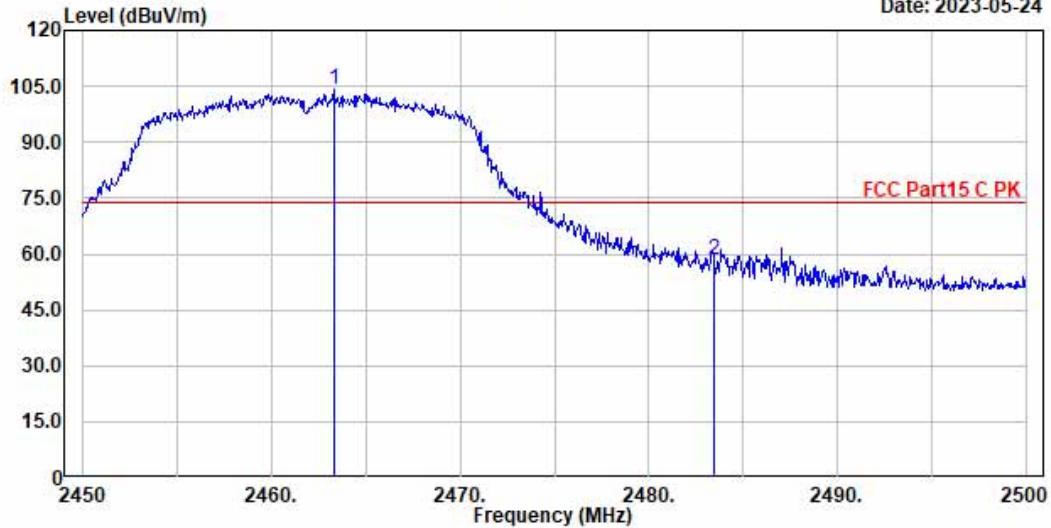
Mode	802.11nHT20	Frequency	TX 2462MHz
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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00055.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:55

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.300	32.18	3.79	101.14	32.80	104.31	74.00	-30.31	Peak
2483.500	32.19	3.80	55.31	32.80	58.50	74.00	15.50	Peak

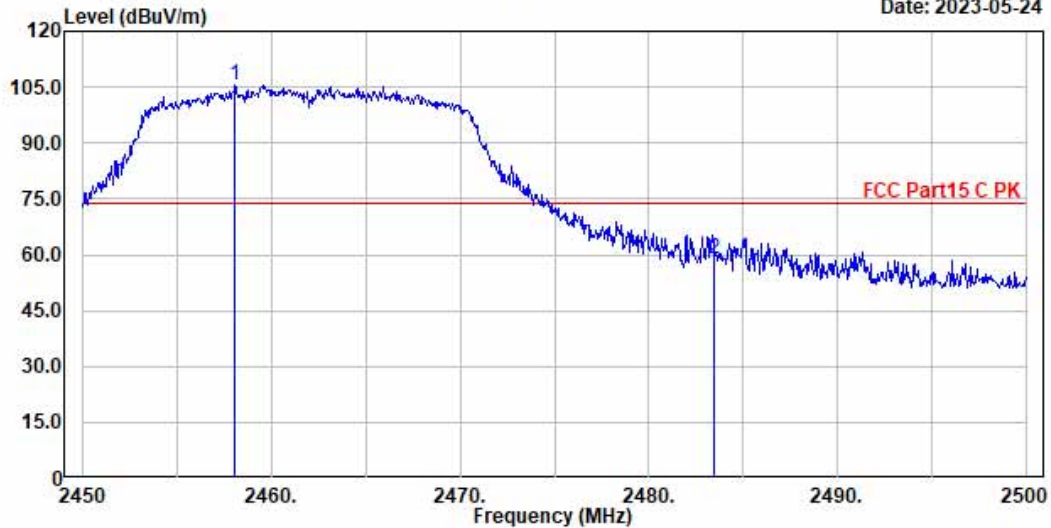
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00056.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber Ant. pol.: Vertical Data NO.:56
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304 Engineer : Xuweifei
 Limit : FCC Part15 C PK
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2458.050	32.17	3.78	102.40	32.80	105.55	74.00	-31.55	Peak
2483.500	32.19	3.80	55.88	32.80	59.07	74.00	14.93	Peak

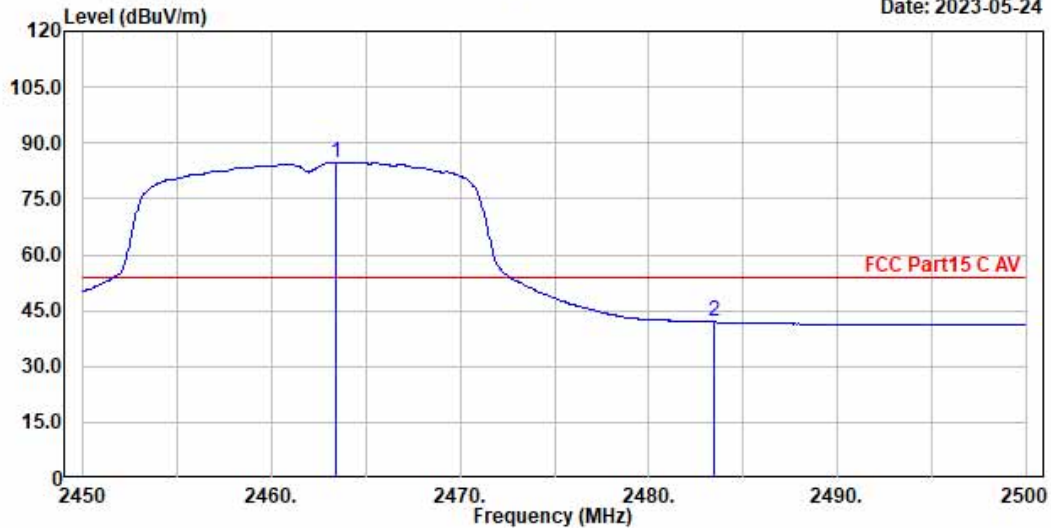
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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 1WM1WMW1M

File: E:\TEST DATA\2023\Report\04\C1W2304038\1_00058.EMI

Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Ant. pol.: Horizontal Data NO.:58

Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.450	32.18	3.79	81.68	32.80	84.85	54.00	-30.85	Average
2483.500	32.19	3.80	38.72	32.80	41.91	54.00	12.09	Average

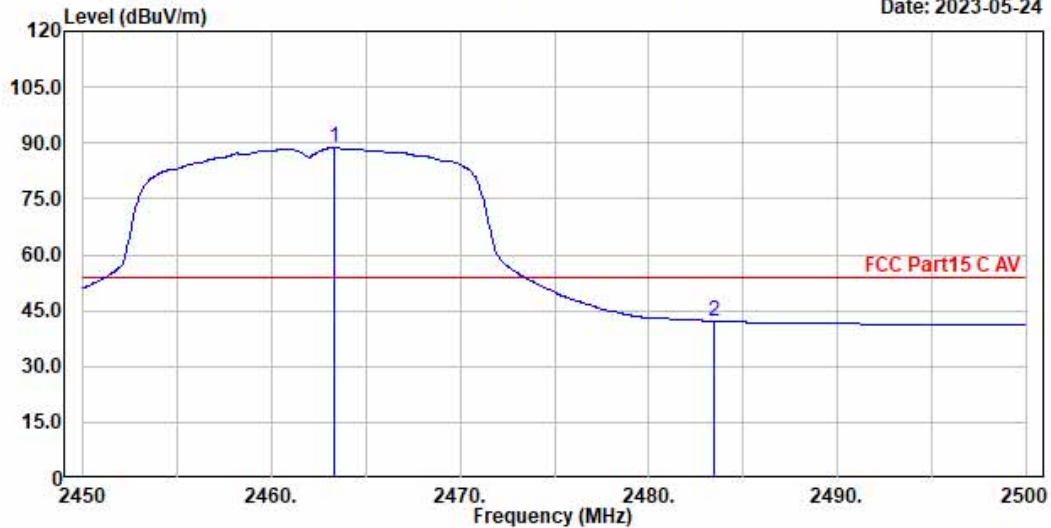
Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor



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Date: 2023-05-24



Site NO. : NO.2 3M Chamber
 Instrument 1 : Spectrum N9030A(367)
 Instrument 2 : Preamplifier 8449B(234)|000
 Dis. / Ant. : 3117-586-2304
 Limit : FCC Part15 C AV
 Env. / Ins. : 21.3°C/54%
 EUT : Smart DataLogger
 M/N : EzLogger3000C
 Power Rating : 120Vac/60Hz
 Test Mode : TX 11nHT20 2462MHZ
 Memo :

Ant. pol.: Vertical Data NO.:57
 Engineer : Xuweifei

Freq. MHz	Ant. Factor dB/m	Cable Loss dB	Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limits dBuV/m	Margin dB	Remark
2463.350	32.18	3.79	85.53	32.80	88.70	54.00	-34.70	Average
2483.500	32.19	3.80	38.98	32.80	42.17	54.00	11.83	Average

Remarks: Emission Level = Antenna factor+Cable loss+Reading-Preamp Factor