





FCC TEST REPORT

Applicant	Particle Industries,Inc
Address	126 Post St,4th floor, San Francisco, CA 94108 USA

Manufacturer or Supplier	Particle Industries,Inc
Address	126 Post St,4th floor, San Francisco, CA 94108 USA
Product	Electron
Brand Name	Particle
Model	ELC402
Additional Models & Model Difference	ELC404; see items 2.1
Date of tests	Sep. 30, 2019 ~ Oct. 29, 2019

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

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

Tested by Breeze Jiang	Approved by Glyn He
Senior Project Engineer / EMC Department	Assistant Manager / EMC Department

green

Date: Jan. 15, 2021

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS190930N052	Original release	Jan. 15, 2020
FS2011WDG0367	Based on the original report FS190930N052 changed the product name, brand name and added additional model, but it doesn't need to be retested.	Jan. 15, 2021

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
Standard Section	Test Item	Result	Remark
FCC Part 15,	Conducted test		Meets limits minimum passing margin is -22.73dB at 0.53250MHz
Subpart B, Class B (sDoC)	Radiated Emission Test (30MHz ~ 1GHz)		Meets limits minimum passing margin is -9.24dB at 191.271MHz

Remark: Please refer to FCC part 2 2.1077 for sDoC compliance information requirement

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emission test	0.15MHz ~ 30MHz	+/- 2.70 dB
Radiated emissions	30MHz ~ 1GHz	+ /- 3.99 dB

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Electron
MODEL NO.	ELC402
ADDITIONAL MODEL	ELC404
POWER SUPPLY	Li+ PIN /Battery connector: DC 3.7V from Li-ion Battery or VUSB PIN /USB connector :DC 5V from USB Host Unit
CABLE SUPPLIED	N/A
THE HIGHEST OPERATING FREQUENCY	Below 108MHz (except wireless function)

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2011WDG0367) for detailed product photo.
- 4. Additional model ELC404 is identical with the test model ELC402 except the model name for trading purpose.

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2.2 DESCRIPTION OF TEST MODES

The EUT were tested under the following modes, the final worst mode was marked in boldface and recorded in this report

FOR CONDUCTED EMISSION TEST:

Test Mode	Test Voltage	
Normal Working	DC 5V from Adapter	

FOR RADIATED EMISSION TEST:

Test Mode	Test Voltage
Normal Warking	DC 5V from Adapter
Normal Working	DC 3.7V from Battery

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	N/A	DC 5V 2A	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Unshielded detachable 0.5m

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EMISSION TEST

CONDUCTED EMISSION MEASUREMENT 3.1

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)			
FREQUENCY (MIDZ)	Quasi-peak	Average	Quasi-peak	Average		
0.15 - 0.5	79	66	66 - 56	56 - 46		
0.50 - 5.0	73	60	56	46		
5.0 - 30.0	73	60	60	50		

- **NOTES**: (1) The lower limit shall apply at the transition frequencies.
 - (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 - (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 12,19	Mar. 11,20
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 12,19	Mar. 11,20
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Mar. 13,19	Mar. 12,20
Voltage probe	SCHWARZBEC K	TK 9421	TK 9421-176	Dec. 12,18	Dec. 11,19
Test software	ADT	ADT_Cond_V 7.3.7	N/A	N/A	N/A

NOTES: 1. The test was performed at Shielded Room 553.

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^{2.} The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



3.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20dB) were not recorded.

NOTES:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

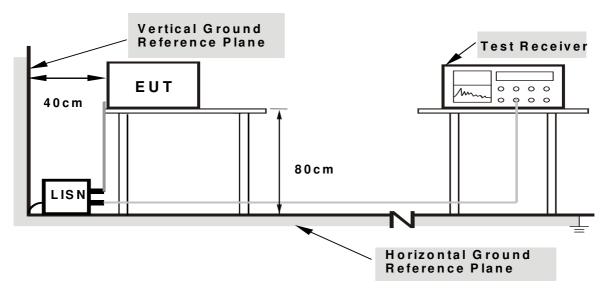
3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

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3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

3.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power of all equipment.
- b. EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

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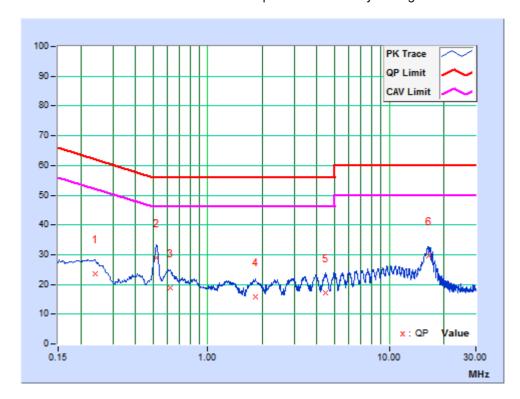


3.1.7 TEST RESULTS

TEST MODE	Normal Working	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from Adapter	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Ming Bai

	Freq.	Corr.	Readin	g Value		sion vel	Lir	nit	Mar	gin
No.		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.24000	10.21	13.20	2.89	23.41	13.10	62.10	52.10	-38.69	-39.00
2	0.52109	10.22	18.70	11.80	28.92	22.02	56.00	46.00	-27.08	-23.98
3	0.62193	10.23	8.62	-0.43	18.85	9.80	56.00	46.00	-37.15	-36.20
4	1.84088	10.22	5.67	2.96	15.89	13.18	56.00	46.00	-40.11	-32.82
5	4.47900	10.23	6.93	1.08	17.16	11.31	56.00	46.00	-38.84	-34.69
6	16.44000	10.32	19.26	8.70	29.58	19.02	60.00	50.00	-30.42	-30.98

REMARKS: The emission levels of other frequencies were very low against the limit.



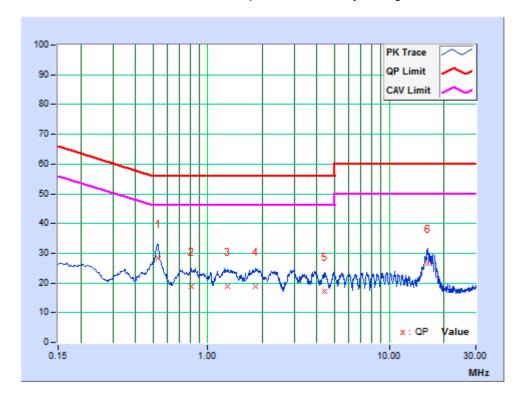
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TEST MODE	Normal Working	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC 5V from Adapter	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Ming Bai

	Freq.	Corr.	Readin	g Value		sion vel	Lir	nit	Mar	gin
No.		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.53250	10.02	18.15	13.25	28.17	23.27	56.00	46.00	-27.83	-22.73
2	0.81414	10.03	8.84	5.23	18.87	15.26	56.00	46.00	-37.13	-30.74
3	1.28212	10.02	8.81	4.79	18.83	14.81	56.00	46.00	-37.17	-31.19
4	1.84200	10.01	8.77	5.18	18.78	15.19	56.00	46.00	-37.22	-30.81
5	4.40700	10.03	7.00	3.46	17.03	13.49	56.00	46.00	-38.97	-32.51
6	16.26225	10.20	16.37	7.22	26.57	17.42	60.00	50.00	-33.43	-32.58

REMARKS: The emission levels of other frequencies were very low against the limit.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBμV/m)							
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B			
30-88	39	29.5					
88-216	43.5	33.1	40	30			
216-230	40.4	0F.C					
230-960	46.4	35.6	47	27			
960-1000	49.5	43.5	4/	37			

Radiated Emissions Limits at 3 meters (dBμV/m)						
Frequencies	FCC 15B / ICES-003,	FCC 15B / ICES-003,				
(MHz)	Class A	Class B				
30-88	49.5	40				
88-216	54	43.5				
216-230	56.9	46				
230-960	56.9	40				
960-1000	60	54				
1000-3000	Avg: 60	Avg: 54				
Above 3000	Peak: 80	Peak: 74				

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FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Notes: (1) The lower limit shall apply at the transition frequencies.

- (2) Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

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3.2.2 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU26	100005	May 20,19	May 19, 20
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 12,19	Mar. 11, 20
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 10, 18	Nov. 09, 19
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 10, 18	Dec. 09,19
Preamplifier	EMCI	EMC1135	980378	Mar. 15,19	Mar. 14,20
Preamplifier	EMCI	EMC1135	980423	Mar. 15,19	Mar. 14,20
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m* 8.8m	NSEMC006	Apr. 20,19	Apr. 19,20
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The FCC Site Registration No. is 749762.

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 10, 18	Dec. 09, 19
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170147	Jun. 23,19	Jun. 22,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Mar. 12,19	Mar. 11,20
Broadband Preamplifier (1~18GHz)	SCHWARZBECK	BBV9718	266	Apr. 21,19	Apr. 20,20
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 09,18	Nov. 08,19
Test Software	ADT	ADT_Radiated _V8.7.07	N/A	N/A	N/A

NOTES: 1. The test was performed in 10m Chamber.

- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The FCC Site Registration No. is 749762.

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3.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

<Frequency Range below 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 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 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTES:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)
- 4. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier)
- 5. Margin value = Emission level Limit value

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<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter-to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test receiver/spectrum was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.

NOTES:

- 1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
- 2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver
- 3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
- 4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier)
- 5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) Amplifier Gain(dB) (if the raw value contains the amplifier).
- 6. Margin value = Emission level Limit value

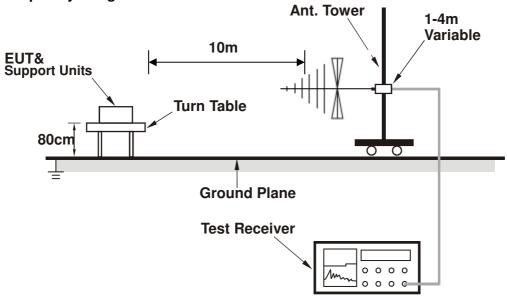
3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

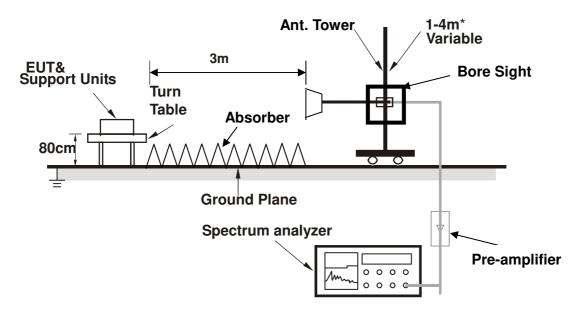


3.2.5 TEST SETUP

<Frequency Range below 1GHz>



< Frequency Range above 1GHz>



*: depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

3.2.6 EUT OPERATING CONDITIONS

See items 3.1.6.

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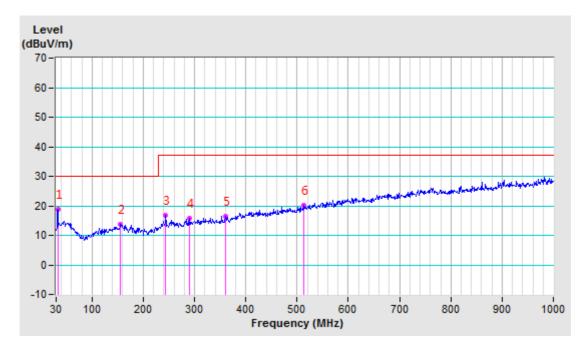


3.2.7 TEST RESULTS

TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz	
TEST VOLTAGE	DC 5V from Adapter	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	TESTED BY: Vincent		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction	Raw	Emission	Limit (dBuV/m)	Margin (dB)	Antenna	Table
		Factor	Value	Level			Height	Angle
		(dB/m)	(dBuV)	(dBuV/m)			(cm)	(Degree)
1	33.638	-18.13	36.89	18.76	30.00	-11.24	400	43
2	156.100	-16.87	30.71	13.84	30.00	-16.16	200	19
3	243.643	-17.14	33.87	16.73	37.00	-20.27	400	125
4	289.475	-15.25	31.14	15.89	37.00	-21.11	400	129
5	359.800	-13.65	30.13	16.48	37.00	-20.52	400	180
6	513.788	-9.72	29.91	20.19	37.00	-16.81	400	43

- REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 30MHz to 1000MHz.
 - 4. Only emissions significantly above equipment noise floor are reported.



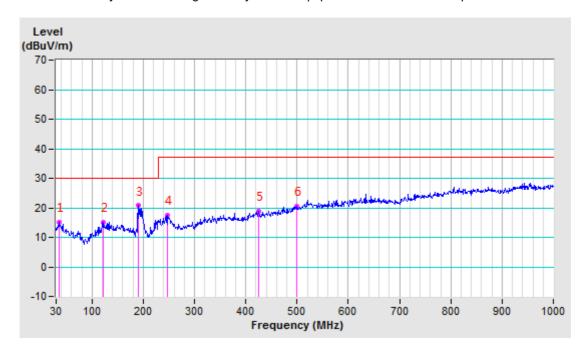
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TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz	
TEST VOLTAGE	DC 5V from Adapter	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz	
ENVIRONMENTAL CONDITIONS	25deg. C, 52% RH	TESTED BY: Vincent		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M									
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	
1	36.160	-17.43	32.57	15.14	30.00	-14.86	100	272	
2	121.088	-18.09	33.32	15.23	30.00	-14.77	100	51	
3	191.271	-18.92	39.68	20.76	30.00	-9.24	100	174	
4	247.533	-15.41	32.90	17.49	37.00	-19.51	100	155	
5	425.537	-10.34	29.23	18.89	37.00	-18.11	300	358	
6	500.134	-8.17	28.81	20.64	37.00	-16.36	300	358	

- **REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 - 2. Negative sign (-) in the margin column signify levels below the limit.
 - 3. Frequency range scanned: 30MHz to 1000MHz.
 - 4. Only emissions significantly above equipment noise floor are reported.



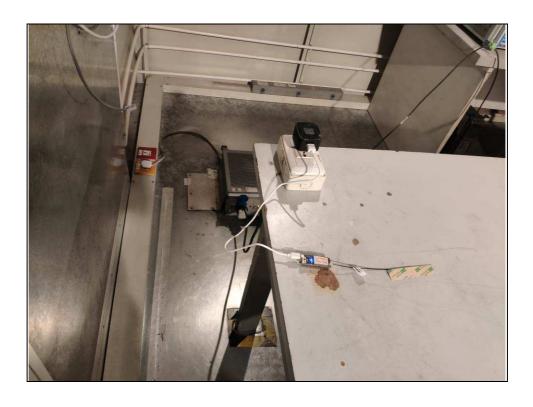
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PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



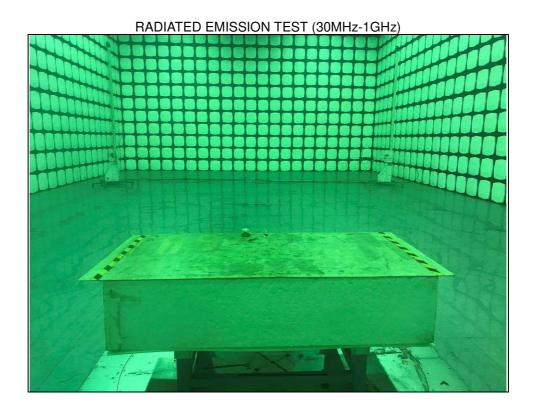


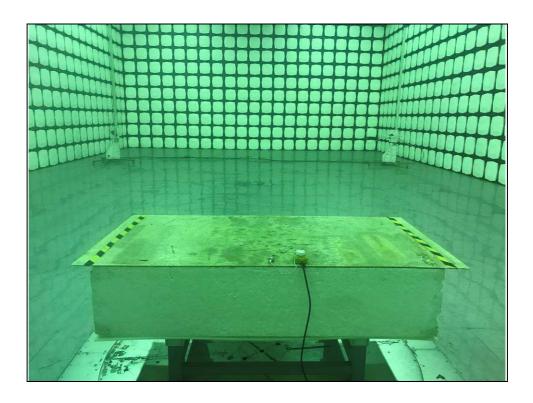
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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---

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