



Test Report No.: IV171129N016



TEST REPORT

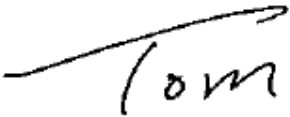

Applicant	Particle industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108, USA

Manufacturer or Supplier	Particle industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108, USA
Product	E31M
Brand Name	Particle
Model	U201
Additional Model & Model Difference	N/A
Date of tests	Nov. 29, 2017 ~ Dec. 21, 2017

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

ICES-003 Issue 6:2016, Class B

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

Tested by Tom Chen Project Engineer / EMC Department	Approved by Madison Luo Supervisor / EMC Department
	
	Date: Dec. 25, 2017

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Table of Contents

RELEASE CONTROL RECORD	3
1 SUMMARY OF TEST RESULTS	4
1.1 MEASUREMENT UNCERTAINTY	4
2 GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 DESCRIPTION OF TEST MODES	6
2.3 DESCRIPTION OF SUPPORT UNITS	6
3 EMISSION TEST	7
3.1 CONDUCTED EMISSION MEASUREMENT	7
3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	7
3.1.2 TEST INSTRUMENTS	7
3.1.3 TEST PROCEDURE	8
3.1.4 DEVIATION FROM TEST STANDARD	8
3.1.5 TEST SETUP	9
3.1.6 EUT OPERATING CONDITIONS	9
3.1.7 TEST RESULTS	10
3.2 RADIATED EMISSION MEASUREMENT	12
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT	12
3.2.2 TEST INSTRUMENTS	14
3.2.3 TEST PROCEDURE	15
3.2.4 DEVIATION FROM TEST STANDARD	16
3.2.5 TEST SETUP	17
3.2.6 EUT OPERATING CONDITIONS	17
3.2.7 TEST RESULTS	18
4 PHOTOGRAPHS OF THE TEST CONFIGURATION	21
5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	23



BUREAU
VERITAS

Test Report No.: IV171129N016

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
IV171129N016	Original release	Dec. 25, 2017

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
Standard Section	Test Item	Result	Remark
ICES-003 Issue 6: 2016, Class B	Conducted test	PASS	Meets limits minimum passing margin is -29.26dB at 0.55725MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -3.43dB at 360.04MHz
	Radiated Emission Test (1GHz ~ 6GHz)	PASS	Meets limits minimum passing margin is -10.58dB at 4672.00MHz

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 test	30MHz ~ 1GHz	+/- 4.03 dB
	1GHz ~ 6GHz	+/- 4.72 dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	E31M
MODEL NO.	U201
ADDITIONAL MODE	N/A
POWER SUPPLY	DC5V from Host Unit or DC3.7V from Li-ion battery
CABLE SUPPLIED	N/A
THE HIGHEST OPERATING FREQUENCY	Above 108MHz

NOTE:

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 showed in test report.
3. Please refer to the EUT photo document (Reference No.: 171129N016) for detailed product photo.

2.2 DESCRIPTION OF TEST MODES

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

◆ FOR CONDUCTED EMISSION TEST:

Test Mode	Test Voltage
GPRS 850 Link+ Charging	DC5V from adapter
GRPS 1900 Link+ Charging	
WCDMA Band V Link+ Charging	
WCDMA Band II Link+ Charging	
Charging	

◆ FOR RADIATED EMISSIONS TEST:

Test Mode	Test Voltage
GPRS 850 Link+ Charging	DC5V from adapter
GRPS 1900 Link+ Charging	
WCDMA Band V Link+ Charging	
WCDMA Band II Link+ Charging	
Charging	
GPRS 850 Link	DC3.7V from battery

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an 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 5V/2A	N/A	C-P57	N/A	N/A
2	Adapter 5V/2A	N/A	C5020-C08N	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1-2	N/A



3 EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: ICES-003 (Class A: section 6.1) (Class B: section 6.1)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	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	Apr. 05,17	Apr. 04,18
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,17	Mar. 03,18
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,17	Apr. 04,18
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 04,17	Jan. 03,18
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A
RADIO COMMUNICATION ANALYZER	Annitsu	MT8820C	6201300716	Dec. 02, 17	Dec. 01, 18
Universal Radio Communication Tester	Rohde&Schwarz	CMU 200	123259	Apr. 05,17	Apr. 04,18

- NOTE:**
- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in shielding room 553.

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.

NOTE:

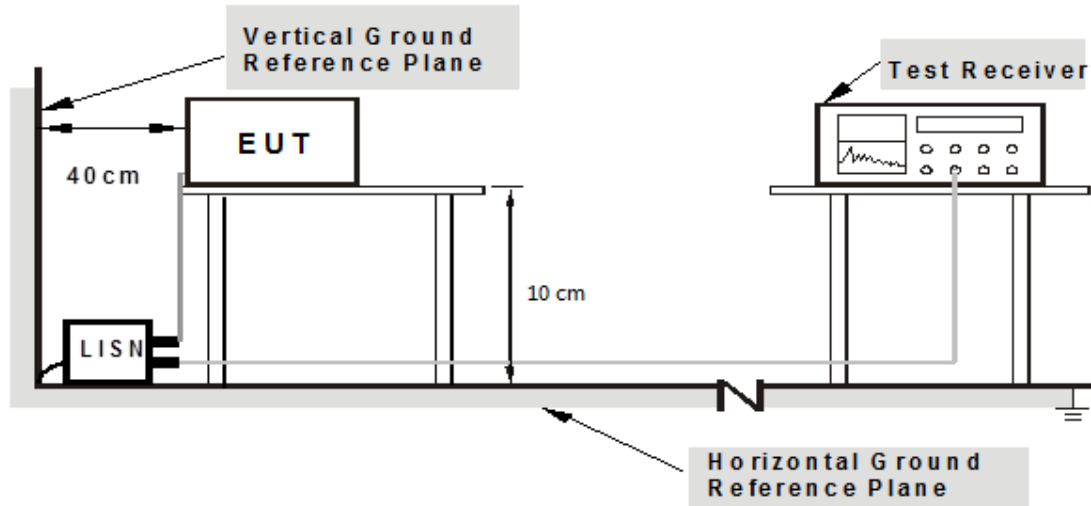
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission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

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.



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

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

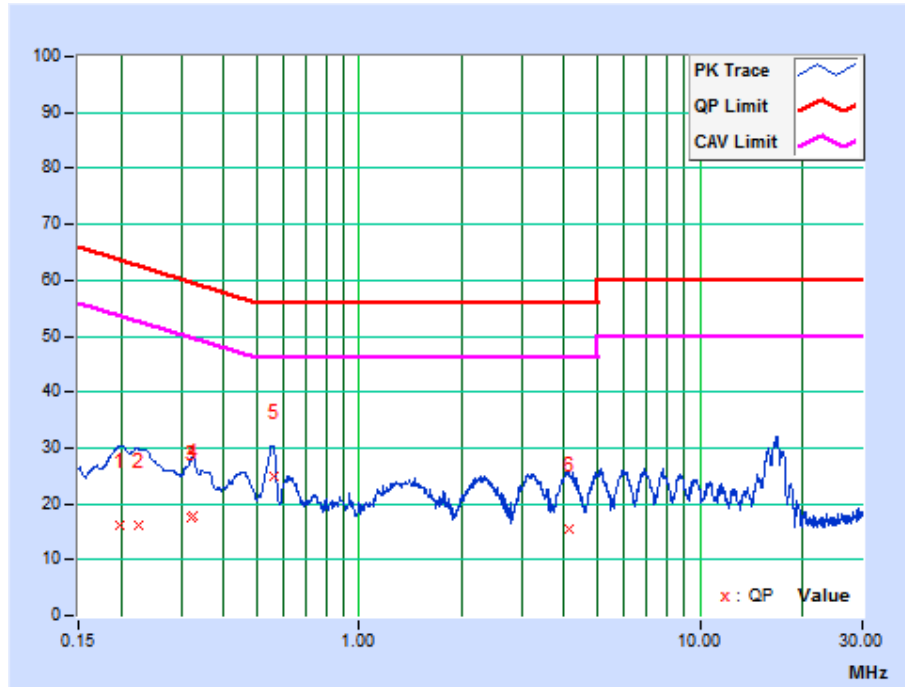


3.1.7 TEST RESULTS

TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC5V from adapter	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23deg. C, 48% RH	TESTED BY	Dragon

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19721	10.22	5.86	-2.40	16.08	7.82	63.73	53.73	-47.65	-45.91
2	0.22425	10.22	5.83	-2.74	16.05	7.48	62.66	52.66	-46.61	-45.18
3	0.32312	10.22	7.27	-2.56	17.49	7.66	59.63	49.63	-42.14	-41.97
4	0.32397	10.22	7.51	-2.37	17.73	7.85	59.60	49.60	-41.87	-41.75
5	0.55950	10.22	14.75	-1.63	24.97	8.59	56.00	46.00	-31.03	-37.41
6	4.11872	10.22	5.22	-4.62	15.44	5.60	56.00	46.00	-40.56	-40.40

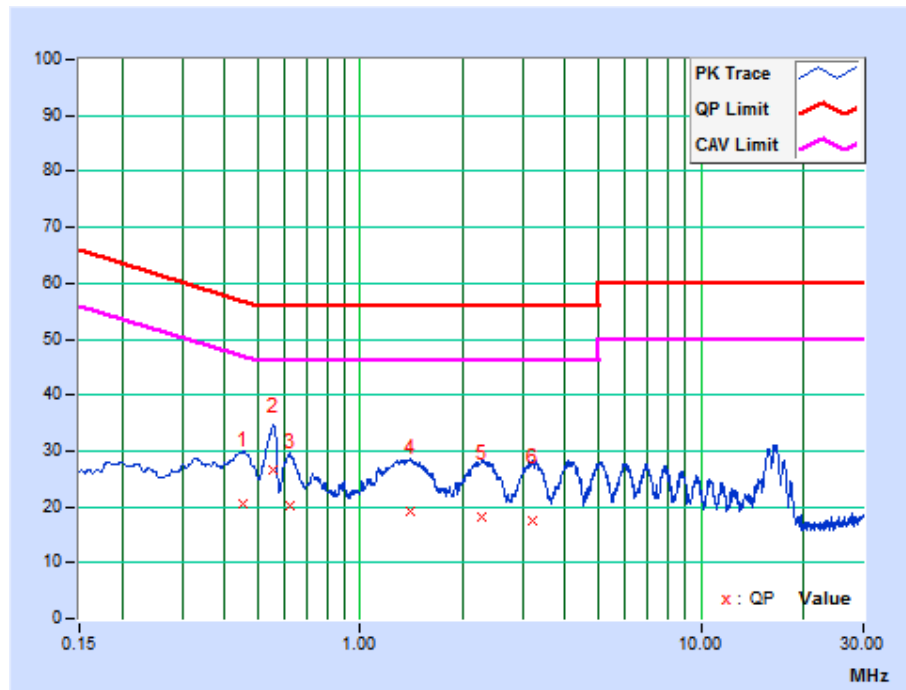
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	DC5V from adapter	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23deg. C, 48% RH	TESTED BY	Dragon

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.45185	10.03	10.53	-3.44	20.56	6.59	56.84	46.84	-36.28	-40.25
2	0.55725	10.02	16.72	-1.32	26.74	8.70	56.00	46.00	-29.26	-37.30
3	0.61865	10.02	10.26	-3.93	20.28	6.09	56.00	46.00	-35.72	-39.91
4	1.40254	10.01	9.07	-4.75	19.08	5.26	56.00	46.00	-36.92	-40.74
5	2.26784	10.02	8.33	-4.70	18.35	5.32	56.00	46.00	-37.65	-40.68
6	3.19655	10.03	7.36	-4.36	17.39	5.67	56.00	46.00	-38.61	-40.33

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





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: ICES-003 for below 1GHz (Class A: section 6.2.1 Table 4; Class B: section 6.2.1 Table 5); for above 1GHz (Class A: section 6.2.2 Table 6; Class B: section 6.2.2 Table 7)

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	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5	Not defined	Not defined
1000-3000	Avg: 49.5	Avg: 43.5		
Above 3000	Peak: 69.5	Peak: 63.5		

Radiated Emissions Limits at 3 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	49.5	40	50.5	40.5
88-216	54	43.5		
216-230	56.9	46		
230-960			57.5	47.5
960-1000	60	54	Avg: 56 Peak: 76	Avg: 50 Peak: 70
1000-3000	Avg: 60	Avg: 54		
Above 3000	Peak: 80	Peak: 74		



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

- Note: (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.



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	Jun. 05,17	Jun. 04,18
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Feb. 27,17	Feb. 26,18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 10, 17	Nov. 09, 18
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 10, 17	Dec. 09, 18
Preamplifier	EMCI	EMC1135	980378	Mar. 20,17	Mar. 19,18
Preamplifier	EMCI	EMC1135	980423	Mar. 20,17	Mar. 19,18
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m*8.8m	NSEMC006	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A	N/A
RADIO COMMUNICATION ANALYZER	Annitsu	MT8820C	6201300716	Dec. 02, 17	Dec. 01, 18
Universal Radio Communication Tester	Rohde&Schwarz	CMU 200	123259	Apr. 05,17	Apr. 04,18

- 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.

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Dec. 10, 17	Dec. 09, 18
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Apr. 05,17	Apr. 04,18
Broadband Preamplifier	SCHWARZBECK	BBV9718	266	Mar. 21,17	Mar. 20,18
Pre-Amplifier (100MHz-26.5GHz)	EMCI	EMC 012645	980077	May 19,17	May 18,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
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 are 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA
3. The IC test Site Registration No. is 5936A.

3.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

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

- a. The EUT was placed on the 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.

NOTE:

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.

<Frequency Range above 1GHz>

- a. The EUT was placed on the rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic 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 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 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 and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

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 antenna.
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.

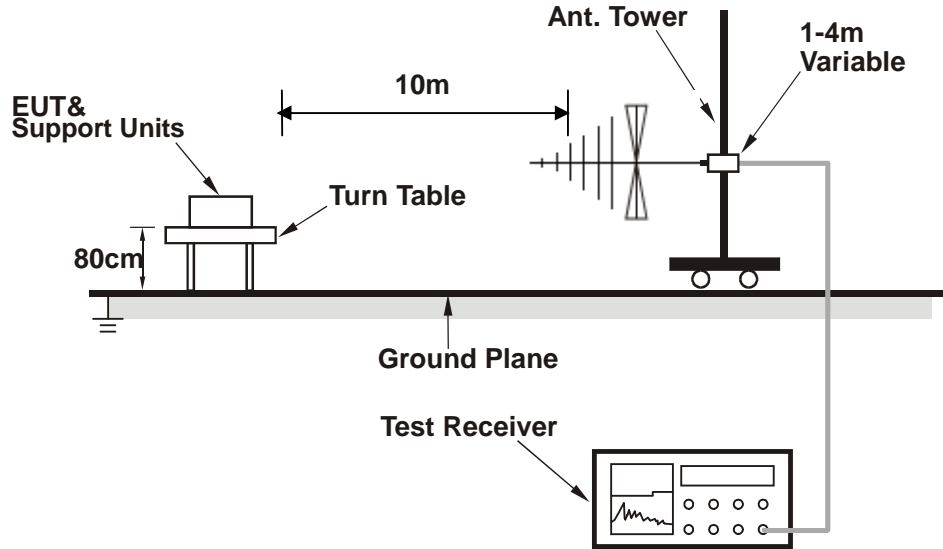
3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

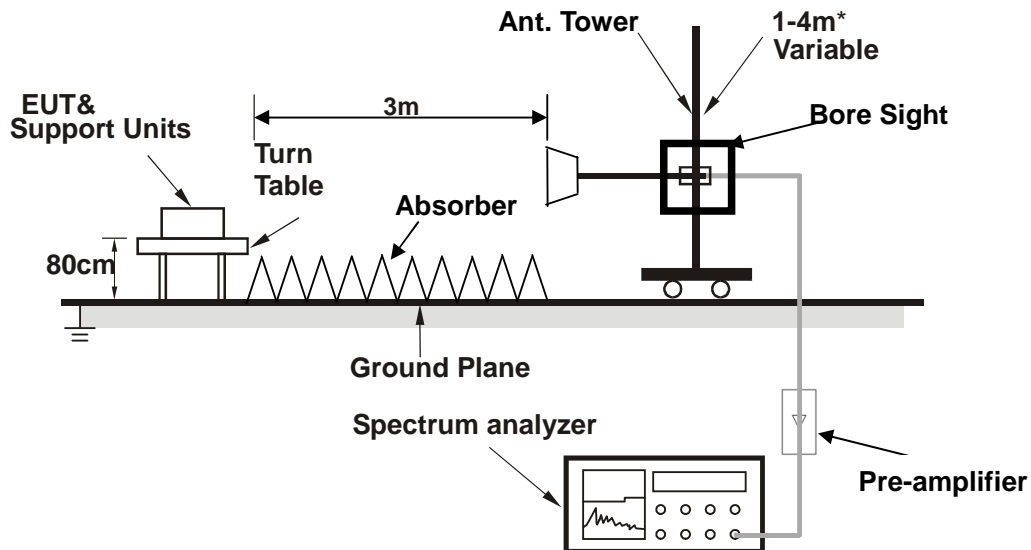


3.2.5 TEST SETUP

<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

- Turn on the power supply of the EUT.
- EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

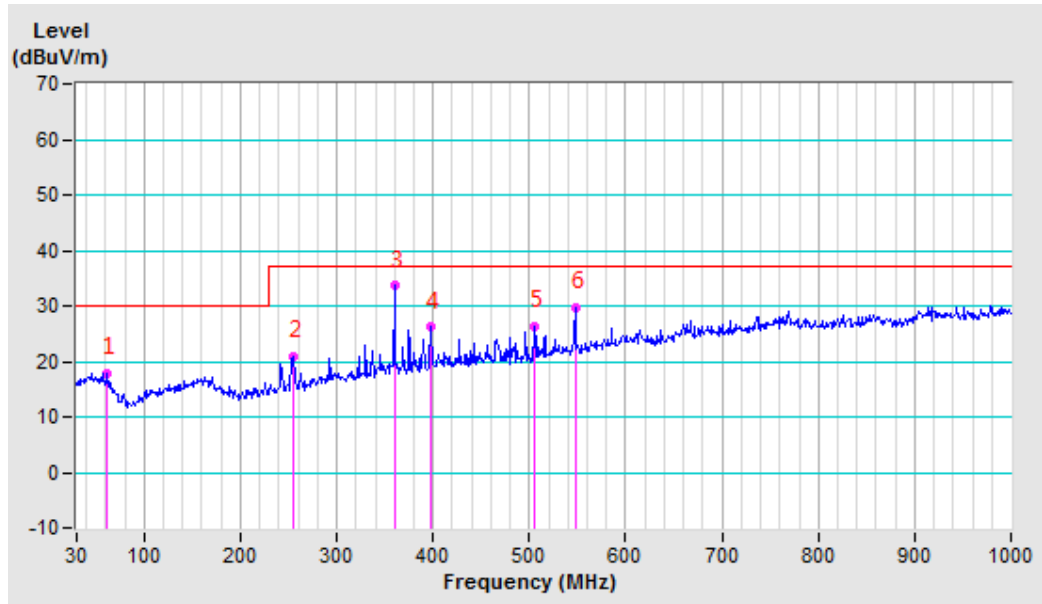


3.2.7 TEST RESULTS

TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.7V from battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58% RH	TESTED BY: Xin Peng	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL 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	61.16	-10.15	27.87	17.72	30.00	-12.28	200	353
2	255.04	-8.99	29.82	20.83	37.00	-16.17	400	92
3	360.04	-6.06	39.63	33.57	37.00	-3.43	200	28
4	397.51	-5.27	31.41	26.14	37.00	-10.86	400	23
5	505.66	-4.08	30.43	26.35	37.00	-10.65	200	97
6	547.62	-2.68	32.38	29.70	37.00	-7.30	200	39

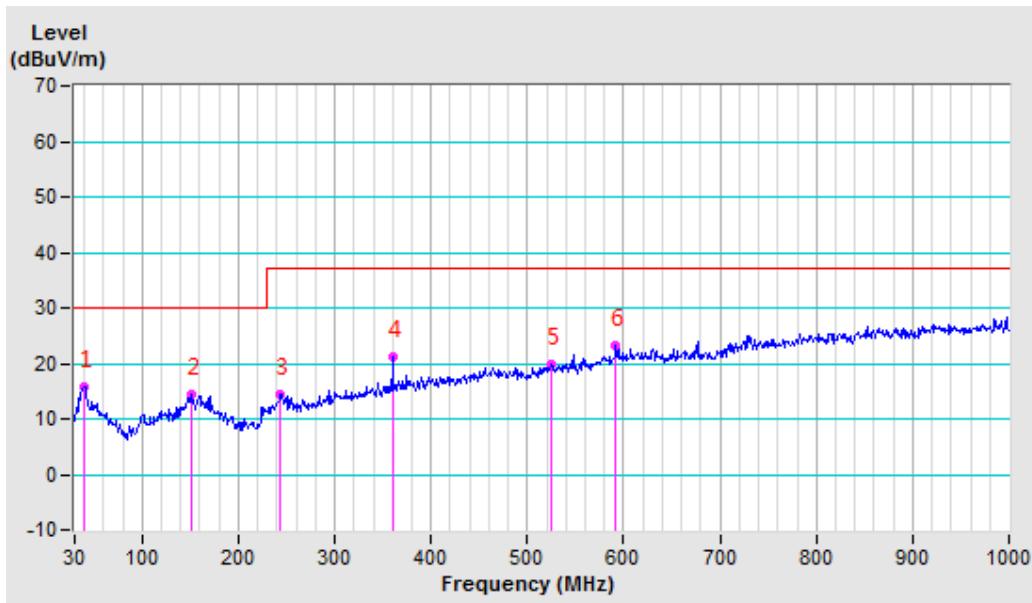
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4.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



TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.7V from battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58% RH	TESTED BY: Xin Peng	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT10M								
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	38.92	-16.60	32.44	15.84	30.00	-14.16	100	117
2	151.06	-15.81	30.14	14.33	30.00	-15.67	100	338
3	243.51	-16.02	30.59	14.57	37.00	-22.43	100	106
4	359.91	-12.91	34.07	21.16	37.00	-15.84	300	54
5	525.60	-9.40	29.40	20.00	37.00	-17.00	100	298
6	591.71	-7.26	30.59	23.33	37.00	-13.67	100	338

- 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.





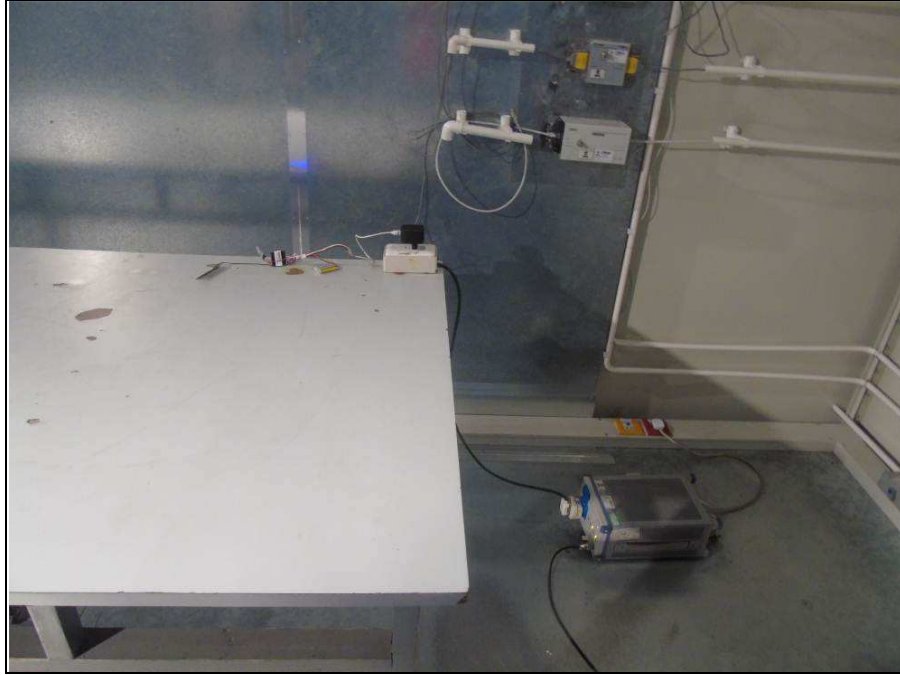
TEST MODE	See section 2.2	FREQUENCY RANGE	Above 1GHz
TEST VOLTAGE	DC3.7V from battery	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak, Average 1MHz
ENVIRONMENTAL CONDITIONS	22deg. C, 58% RH	TESTED BY: Xin Peng	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 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	3216.00 PK	3.82	58.31	62.13	74.00	-11.87	100	153
2	3216.00 AV	3.82	38.75	42.57	54.00	-11.43	100	153
3	3946.00 PK	5.20	57.81	63.01	74.00	-10.99	100	278
4	3946.00 AV	5.20	37.67	42.87	54.00	-11.13	100	278
5	4672.00 PK	6.77	56.65	63.42	74.00	-10.58	100	2
6	4672.00 AV	6.77	35.01	41.78	54.00	-12.22	100	2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 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	3462.48 PK	5.06	55.29	60.35	74.00	-13.65	100	124
2	3462.48 AV	5.06	36.49	41.55	54.00	-12.45	100	124
3	3976.45 PK	5.21	54.74	59.95	74.00	-14.05	100	257
4	3976.45 AV	5.21	35.06	40.27	54.00	-13.73	100	257
5	4673.58 PK	6.78	53.19	59.97	74.00	-14.03	100	23
6	4673.58 AV	6.78	33.68	40.46	54.00	-13.54	100	23

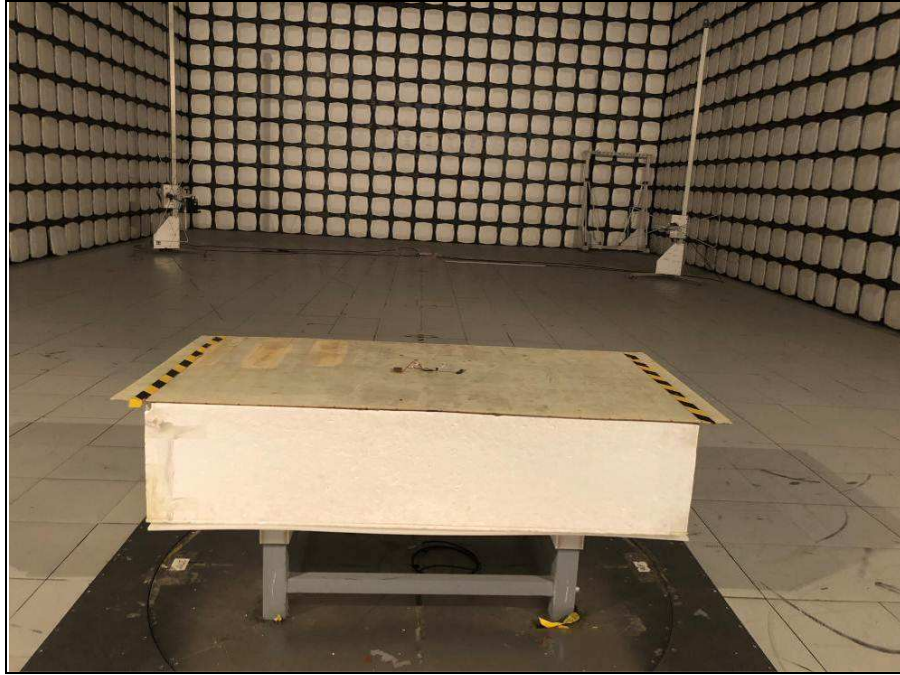
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 1GHz to 18GHz.
 4. Only emissions significantly above equipment noise floor are reported.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

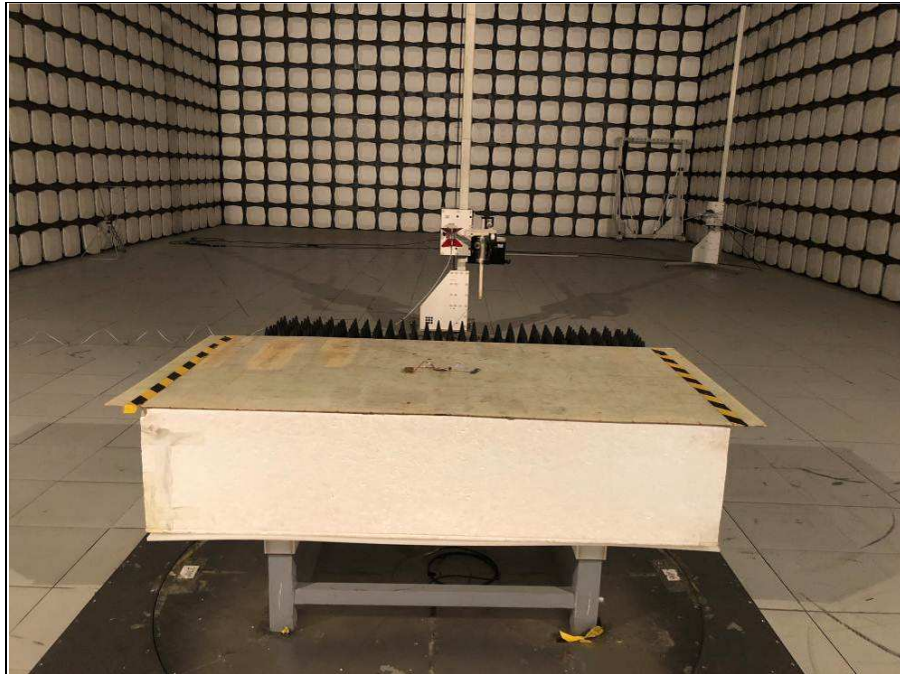
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST <30MHz~1GHz>



RADIATED EMISSION TEST <Above 1GHz>





**BUREAU
VERITAS**

Test Report No.: IV171129N016

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---