

FCC TEST REPORT


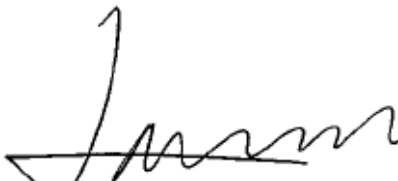
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer or Supplier	Lenovo PC HK Limited
Address	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R. China
Product	Lenovo Smart Clock Essential
Brand Name	Lenovo
Model	Lenovo CD-4N341Y
Additional Model & Model Difference	N/A
Date of tests	Apr. 30, 2020 ~ May 26, 2020

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

FCC Part 15, Subpart B, Class B

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

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Madison Luo Assistant Manager / EMC Department
	
	Date: Jul. 06, 2020

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BUREAU
VERITAS

Test Report No.: FS200430N014

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS200430N014	Original release	Jul. 06, 2020



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, Subpart B, Class B	Conducted test	PASS	Meets limits minimum passing margin is -14.09 dB at 0.52109 MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -4.20 dB at 227.744 MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets limits minimum passing margin is -20.85 dB at 16890.50 MHz

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
	Above 1GHz	+ /- 4.62 dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Lenovo Smart Clock Essential
MODEL NO.	Lenovo CD-4N341Y
ADDITIONAL MODEL	N/A
POWER SUPPLY	DC 12V from adapter
FCC ID	O57CD4N341Y
CABLE SUPPLIED	N/A
OPERATING FREQUENCY	2.4GHz 2402MHz ~ 2480MHz for BT 2412MHz ~ 2462MHz for 11b/g/n(HT20) 5GHz 5180MHz ~ 5240MHz, 5260MHz ~ 5320MHz, 5500MHz ~ 5700MHz 5745MHz ~ 5825MHz

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.: 200430N014) for detailed product photo.
4. For trade convenience, this product can match two different DDR chips, Power amplifier IC chips and adapters (please see the below list). When the product is shipped, one of them will be used randomly. Full test were performed for the 1 prototype and 2 prototype. But only the worst case was showed in test report.

Differentia	1 prototype	2 prototype
DDR Chips	MT41K256M16TW-107:P 96-ball 8mm x 14mm FBGA DDR	K4B4G1646E-BYMA 96FBGA DDR3L SDRAM ROKU:1008000144
Power amplifier IC chips	AD52058 E-TSSOP-28L	TPA3138D2PWPR
Adapters	Made by Chenyang Electronics	Made by ACBEL ELECTRICAL



5. The EUT were powered by the following Adapter, only the worst case adapter 1 was showed in the report.

ADAPTER 1	
BRAND:	Lenovo (chenyang)
MODEL:	AD18W2002
INPUT:	AC 100-240V, 50/60Hz 0.8A Max
OUTPUT:	DC 12V, 1.5A
AC LINE:	Unshielded, Non-detachable, 150cm.
MANUFACTURER	Chen Yang electronic
ADAPTER 2	
BRAND:	Lenovo (Acbel)
MODEL:	AD18W2002
INPUT:	AC 100-240V, 50/60Hz 0.8A Max
OUTPUT:	DC 12V, 1.5A
AC LINE:	Unshielded, Non-detachable, 150cm.
MANUFACTURER	ACBEL ELECTRICAL



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.

◆ CONDUCTED EMISSION TEST:

Test Mode	Test Voltage	Test Sample
WiFi (2.4G) Link (Play music) + Clock + USB Load (5V 500mA)	DC 12V from Adapter Input AC110V 60Hz	1 prototype 2 prototype
WiFi (5G) Link (Play music) + Clock + USB Load (5V 500mA)		
BT (Play music) + Clock + USB Load (5V 500mA)		

◆ RADIATED EMISSION TEST (BELOW 1G) :

Test Mode	Test Voltage	Test Sample
WiFi (2.4G) Link (Play music) + Clock + USB Load (5V 500mA)	DC 12V from Adapter Input AC110V 60Hz	1 prototype 2 prototype
WiFi (5G) Link (Play music) + Clock + USB Load (5V 500mA)		
BT (Play music) + Clock + USB Load (5V 500mA)		

◆ RADIATED EMISSION TEST (ABOVE 1G):

Test Mode	Test Voltage	Test Sample
WiFi (2.4G) Link (Play music) + Clock + USB Load (5V 500mA)	DC 12V from Adapter Input AC110V 60Hz	1 prototype 2 prototype
WiFi (5G) Link (Play music) + Clock + USB Load (5V 500mA)		
BT (Play music) + Clock + USB Load (5V 500mA)		



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	Multimeter	N/A	N/A	N/A	N/A
2	Wireless Router	LB-LINK	BL-WR4300H	WR002	N/A
3	Mobile Phone	SAMSUNG	GT-S7572	R21D85CCB7N	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Cable: Unshielded, Detachable 1.0m
2	DC Line: Unshielded, Detachable 1.2m
3	N/A



3 EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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)	
	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. 18,20	Mar. 17,21
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 18,20	Mar. 17,21
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Mar. 18,20	Mar. 17,21
Voltage probe	SCHWARZBEC K	TK 9421	TK 9421-176	Sep. 24,19	Sep. 23,20
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.
 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.

NOTE:

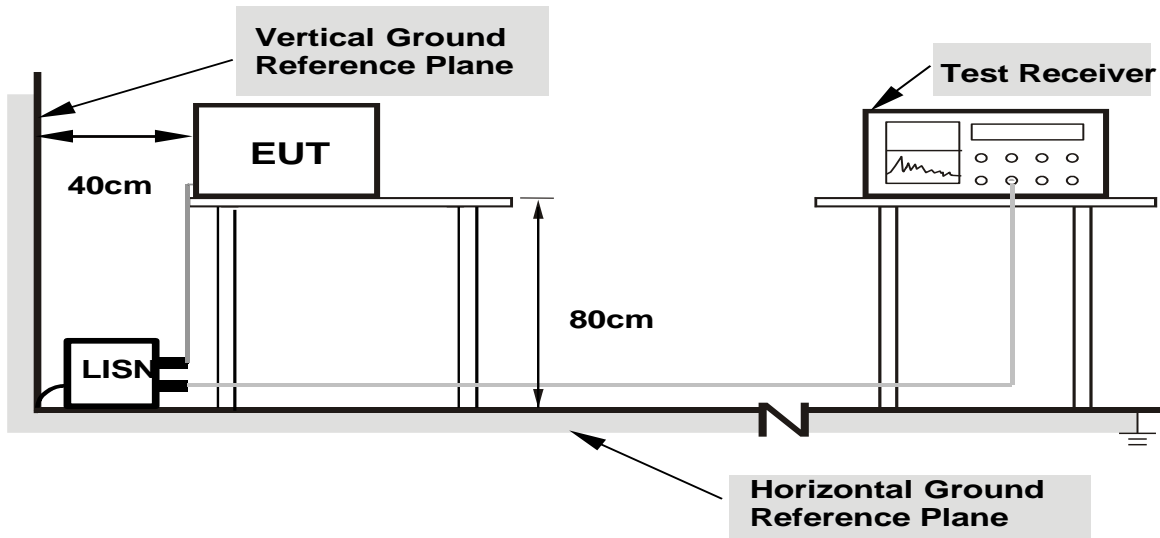
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission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

- 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.

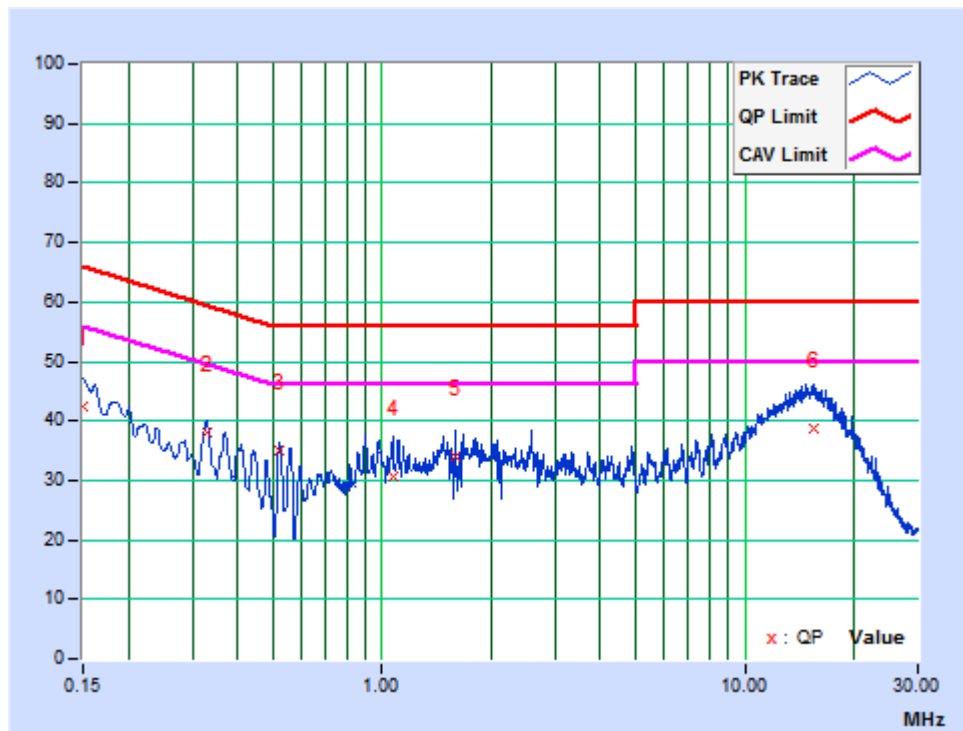


3.1.7 TEST RESULTS

TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	See section 2.2	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Ming Bai

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	0.15000	10.21	32.37	13.92	42.58	24.13	66.00	56.00	-23.42	-31.87
2	0.32775	10.22	27.74	22.89	37.96	33.11	59.51	49.51	-21.55	-16.40
3	0.52109	10.22	24.66	21.69	34.88	31.91	56.00	46.00	-21.12	-14.09
4	1.07475	10.24	20.37	11.44	30.61	21.68	56.00	46.00	-25.39	-24.32
5	1.59626	10.23	23.78	14.09	34.01	24.32	56.00	46.00	-21.99	-21.68
6	15.54000	10.32	28.33	19.42	38.65	29.74	60.00	50.00	-21.35	-20.26

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

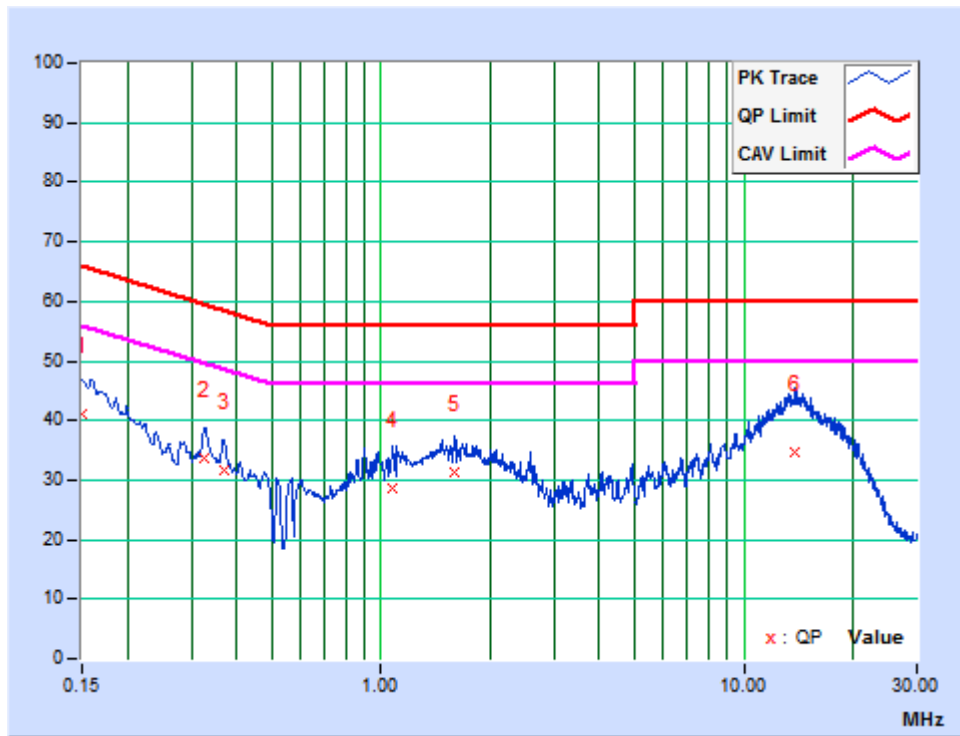




TEST MODE	See section 2.2	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	See section 2.2	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg.C, 57% RH	TESTED BY	Ming Bai

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	0.15000	10.01	30.98	13.97	40.99	23.98	66.00	56.00	-25.01	-32.02
2	0.32569	10.01	23.73	17.21	33.74	27.22	59.56	49.56	-25.82	-22.34
3	0.36775	10.02	21.57	15.14	31.59	25.16	58.55	48.55	-26.96	-23.39
4	1.07250	10.03	18.53	4.02	28.56	14.05	56.00	46.00	-27.44	-31.95
5	1.59900	10.01	21.28	9.03	31.29	19.04	56.00	46.00	-24.71	-26.96
6	13.90425	10.19	24.46	13.84	34.65	24.03	60.00	50.00	-25.35	-25.97

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: 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	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5		

Radiated Emissions Limits at 3 meters (dBµV/m)		
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B
30-88	49.5	40
88-216	54	43.5
216-230	56.9	46
230-960		
960-1000	60	54
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	May 20,20	May 19, 21
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 18,20	Mar. 17,21
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 24, 19	Nov. 23, 20
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 01, 19	Nov. 30, 20
Preamplifier	EMCI	EMC1135	980378	Mar. 15,20	Mar. 14,21
Preamplifier	EMCI	EMC1135	980423	Mar. 15,20	Mar. 14,21
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m* 8.8m	NSEMC006	Oct. 19,19	Oct. 18,20
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	Nov. 24, 19	Nov. 23, 20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170147	Jun. 23,19	Jun. 22,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Mar. 18,20	Mar. 17,21
Broadband Preamplifier (1~18GHz)	SCHWARZBECK	BBV9718	266	Apr. 21,20	Apr. 20,21
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Mar. 04,20	Mar. 03,21
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.



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



<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 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

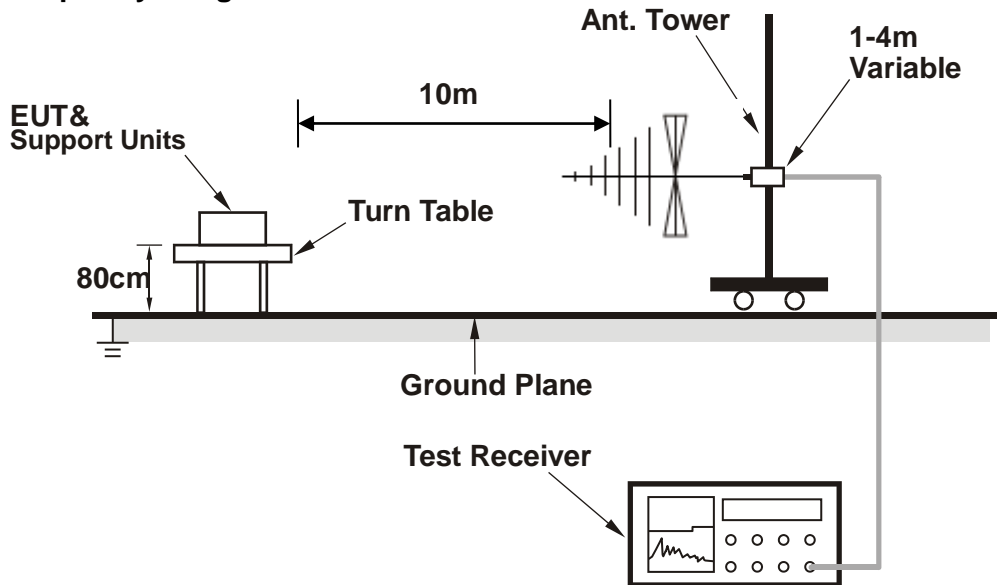
3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

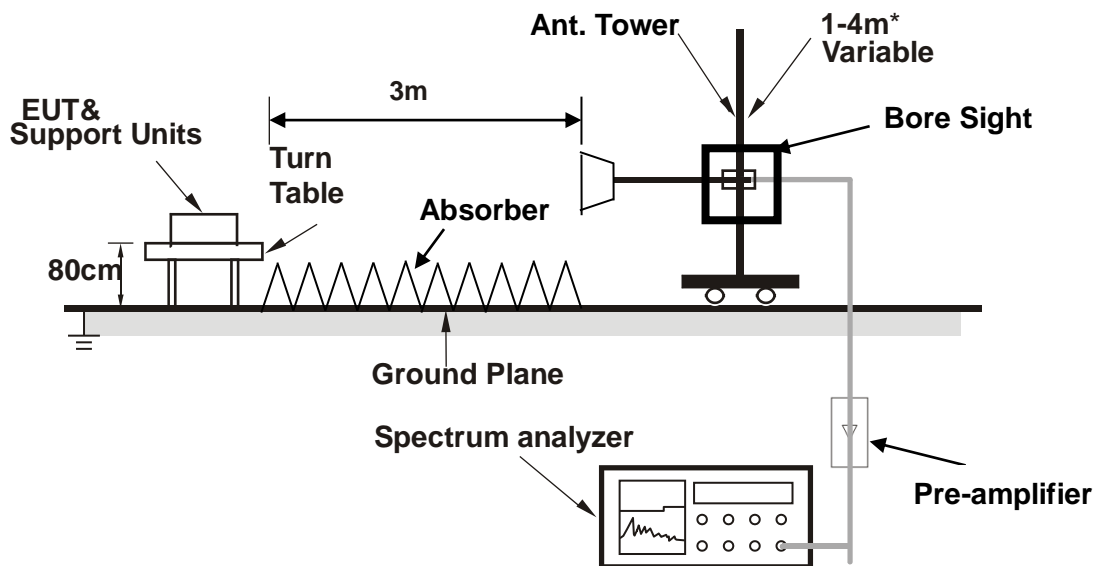


3.2.5 TEST SETUP

<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

See items 3.1.6.

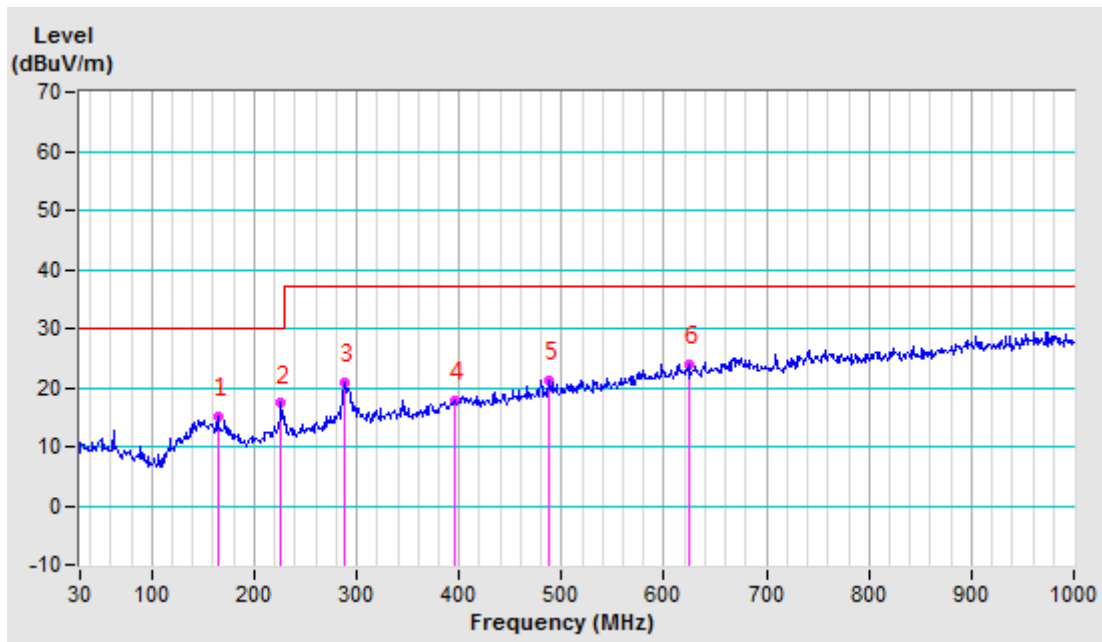


3.2.7 TEST RESULTS (BELOW 1GHz)

TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	See section 2.2	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55% RH	TESTED BY: Kamiko	

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	164.466	-16.55	31.57	15.02	30.00	-14.98	400	289
2	225.940	-17.79	35.15	17.36	30.00	-12.64	400	138
3	288.020	-14.98	35.75	20.77	37.00	-16.23	400	301
4	394.963	-12.04	29.97	17.93	37.00	-19.07	400	43
5	488.325	-9.60	30.94	21.34	37.00	-15.66	200	4
6	623.883	-6.30	30.17	23.87	37.00	-13.13	400	5

- 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.

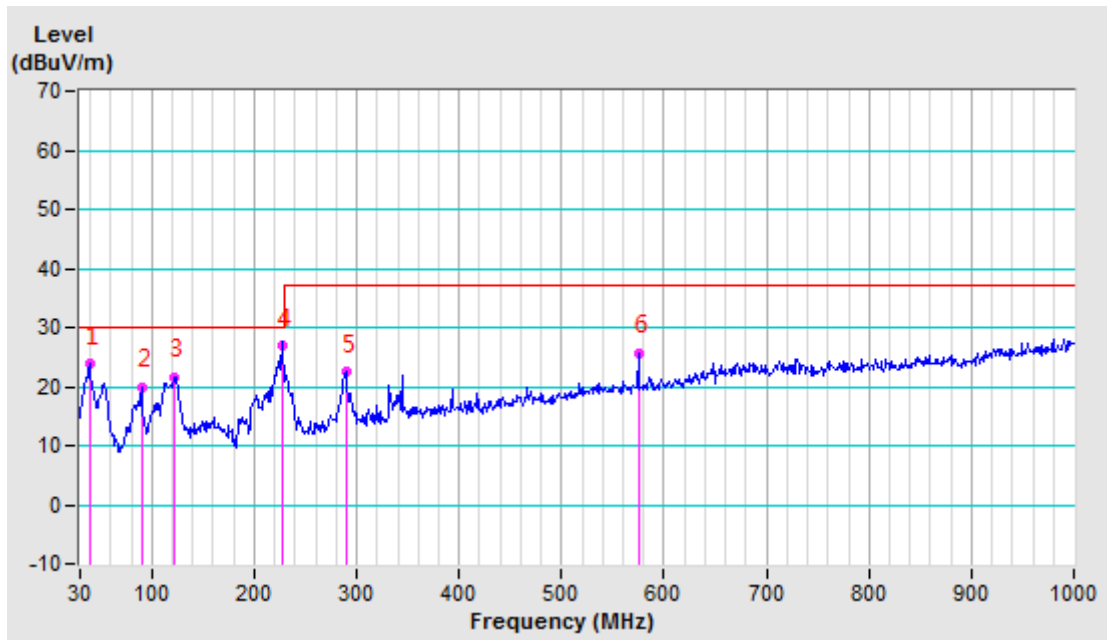




TEST MODE	See section 2.2	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	See section 2.2	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	24deg. C, 55% RH	TESTED BY: Kamiko	

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	39.070	-17.32	41.13	23.81	30.00	-6.19	100	111
2	90.192	-21.10	40.99	19.89	30.00	-10.11	100	119
3	122.737	-18.32	40.01	21.69	30.00	-8.31	100	156
4	227.744	-17.91	43.71	25.80	30.00	-4.20	100	242
5	289.682	-15.40	37.83	22.43	37.00	-14.57	100	158
6	575.022	-8.07	33.59	25.52	37.00	-11.48	100	346

- 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.





3.2.8 TEST RESULTS (ABOVE 1GHz)

TEST MODE	See section 2.2	FREQUENCY RANGE	Above 1GHz
TEST VOLTAGE	See section 2.2	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak, Average 1MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 58% RH	TESTED BY: Kamiko	

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	7158.38 PK	13.44	36.92	50.36	74.00	-23.64	300	308
2	7158.38 AV	13.44	17.76	31.20	54.00	-22.80	300	308
3	12375.50 PK	21.02	30.26	51.28	74.00	-22.72	100	168
4	12375.50 AV	21.02	10.58	31.60	54.00	-22.40	100	168
5	17124.25 PK	26.96	25.88	52.84	74.00	-21.16	100	180
6	17124.25 AV	26.96	5.64	32.60	54.00	-21.40	100	180
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	7365.50 PK	13.73	36.55	50.28	74.00	-23.72	100	116
2	7365.50 AV	13.73	17.07	30.80	54.00	-23.20	100	116
3	12576.75 PK	21.25	30.58	51.83	74.00	-22.17	100	358
4	12576.75 AV	21.25	10.95	32.20	54.00	-21.80	100	358
5	16890.50 PK	26.70	26.45	53.15	74.00	-20.85	100	284
6	16890.50 AV	26.70	6.10	32.80	54.00	-21.20	100	284

- 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.



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VERITAS

4 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---