

FCC Test Report

Report No.: AGC00174180603FE03

FCC ID : 2AQL7-BT-500

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Bluetooth Adapter for Keyboard and Mouse

BRAND NAME : N/A

MODEL NAME : BT-500

CLIENT: Handheld Scientific, Inc.

DATE OF ISSUE : July 13, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	So The state of th	July 13, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Handheld Scientific, Inc.
Address	5201 Great America Pkwy, Suite 320, Santa Clara, CA 95054, USA
Manufacturer	Handheld Scientific, Inc.
Address	5201 Great America Pkwy, Suite 320, Santa Clara, CA 95054, USA
Product Designation	Bluetooth Adapter for Keyboard and Mouse
Brand Name	N/A
Test Model	BT-500
Date of test	July 03, 2018 to July 11, 2018
Deviation	None San
Condition of Test Sample	Normal Section 1 Control of the Cont
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By	Henry Zhand	T. T
Control Complaines	Henry Zhang(Zhang Zhuorui)	July 11, 2018
Reviewed By	and change	
© Manufact Complete	Cool Cheng(Cheng Mengguo)	July 13, 2018
Approved By	Foresto ce	
Junes © Junes along	Forrest Lei(Lei Yonggang) Authorized Officer	July 13, 2018



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	40
Hardware Version	v1.0
Software Version	v1.0
Antenna Designation	PCB Antenna
Antenna Gain	1.2dBi
Power Supply	DC 5V by USB

2.2. TABLE OF CARRIER FREQUENCYS

BLE Channel List

Frequency Band	Channel Number	Frequency		
1) Maria de Constitución (1) Maria de Consti	0 0	2402MHz		
GC "	1	2404MHz		
2400~2483.5MHz	The state of the s	-0		
S S S S S S S S S S S S S S S S S S S	38	2478 MHz		
CC CC	39	2480 MHz		



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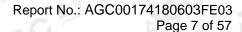
3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION	
® 4	Ton of Globa	Low channel GFSK	
CO	2	Middle channel GFSK	The Compliance
	3	High channel GFSK) Management Color
* FILL	4 10 700	BT Link	
Note: Tra	insmitting duty c	ycle >98%, The average correction factor is about -0.1	







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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark	
Bluetooth Adapter for Keyboard and Mouse		Handheld	BT-500	EUT F	
2	PC	DELL	INSPIRON 14-3437	A.E	
3	Adapter	O DELL	HA65NS5-00	A.E	
4	Control box	SERIAL	N/A	A.E	
5	USB Cable	N/A	1m unshielded	A.E	
6	USB Cable	N/A	1.5m unshielded	A.E	
7	Mouse	Uniscom	U1	A.E	
8	Mobile phone	APPLE	iphone 8 Plus	A.E.	



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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant



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6. TEST FACILITY

Alle Control of the C					
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012				
NVLAP Lab Code	600153-0				
Designation Number	CN5028				
Test Firm Registration Number	682566				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0				



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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2018	Jun.19, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2018	Jun.19, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2018	Jun.19, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Radiation Cable 1	MXT	RS1	R005	N/A	N/A
Radiation Cable 2	MXT	RS1	R006	N/A	N/A
Loop Antenna	A.H.Systems,Inc	SAS-562B	-1111	Mar. 01, 2018	Feb. 28, 2019
Filter (2.4-2.483GHz)	Micro-tronics	087	The total complaints (S. W.	Jun.20, 2018	Jun.19, 2019

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	(<u>3</u>
0.490 ~ 1.705	30	24000/F(kHz)	一 电测
1.705 ~ 30	30	30	E State Colonia Coloni
30 ~ 88	3	100	40.0
88 ~ 216	3 6	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 T. GO	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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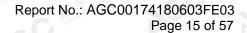
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The following table is the setting of spectrum analyzer and receiver.

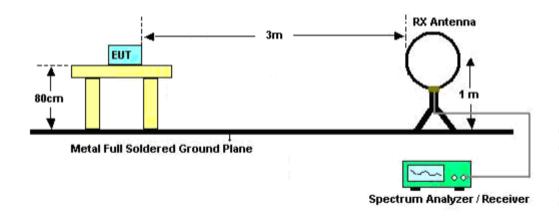
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



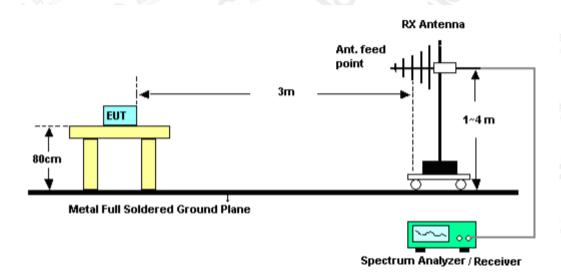


9.3. TEST SETUP

RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



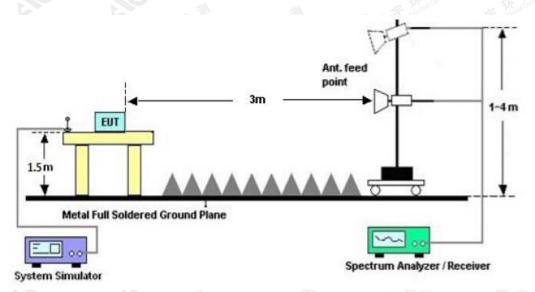
RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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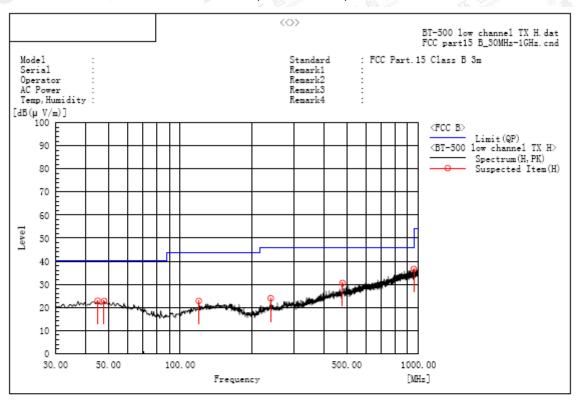
9.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



A. Suspected List:

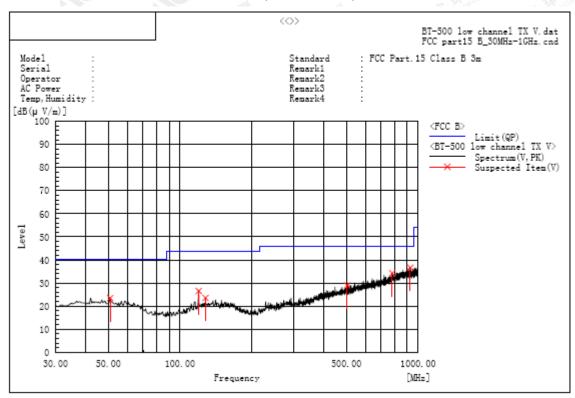
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
45.035	Н	5.6	17.3	22.9	40.0	17.1	Pass	200.0	288.0
47.945	Н	5.5	17.2	22.7	40.0	17.3	Pass	200.0	72.3
119.725	Н	7.3	15.4	22.7	43.5	20.8	Pass	200.0	35.9
240.005	Н	7.7	16.2	23.9	46.0	22.1	Pass	100.0	91.7
480.080	Н	7.9	22.6	30.5	46.0	15.5	Pass	200.0	181.7
955.380	Н	5.9	30.7	36.6	46.0	9.4	Pass	150.0	144.2

RESULT: PASS



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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
50.855	V	6.5	17.0	23.5	40.0	16.5	Pass	150.0	71.0
119.725	V	11.2	15.4	26.6	43.5	16.9	Pass	200.0	93.1
127.970	V	7.5	16.1	23.6	43.5	19.9	Pass	100.0	253.4
503.360	V	6.1	22.9	29.0	46.0	17.0	Pass	100.0	217.0
778.355	V	6.0	28.2	34.2	46.0	11.8	Pass	150.0	252.3
927.250	V	6.3	30.4	36.7	46.0	9.3	Pass	100.0	288.4

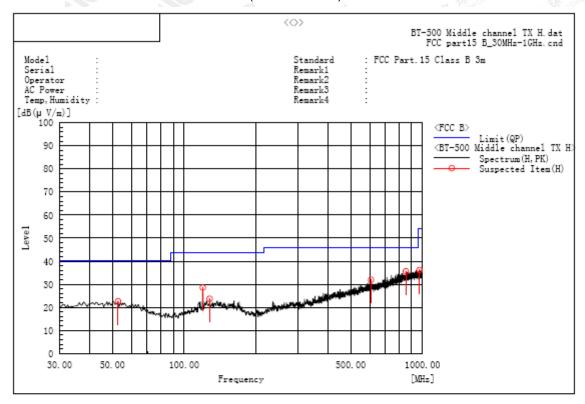
RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.



RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



A. Suspected List:

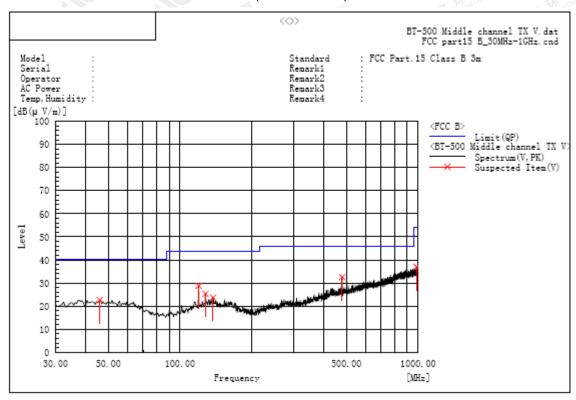
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	52.795	H	5.7	16.9	22.6	40.0	17.4	Pass	150.0	109.5
	119.725	H	13.2	15.4	28.6	43.5	14.9	Pass	100.0	71.9
	127.970	Н	7.6	16.1	23.7	43.5	19.8	Pass	200.0	90.9
6	608.120	Н	6.9	25.1	32.0	46.0	14.0	Pass	150.0	73.1
311	852.075	Н	6.0	29.6	35.6	46.0	10.4	Pass	150.0	73.1
	971.385	Н	5.2	30.9	36.1	54.0	17.9	Pass	150.0	182.3

RESULT: PASS





RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL



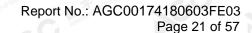
A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(u√/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	46.005	v	5.3	17.3	22.6	40.0	17.4	Pass	150.0	70.9
	119.725	v	13.4	15.4	28.8	43.5	14.7	Pass	150.0	70.9
	127.970	v	9.2	16.1	25.3	43.5	18.2	Pass	200.0	250.9
1	137.670	v	7.1	16.6	23.7	43.5	19.8	Pass	100.0	93.1
G	480.080	V	9.9	22.6	32.5	46.0	13.5	Pass	150.0	288.1
	985.935	v	5.9	31.0	36.9	54.0	17.1	Pass	150.0	288.1

RESULT: PASS

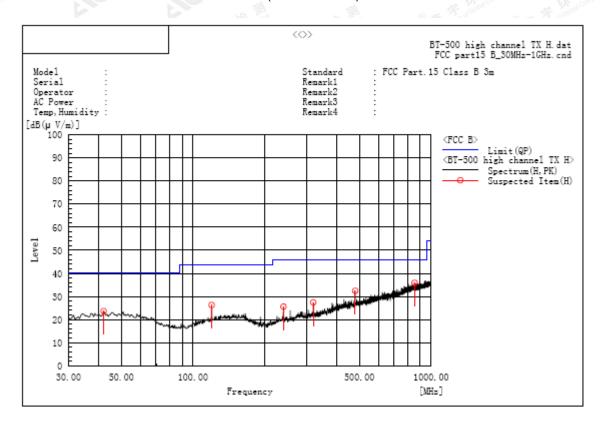
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.





RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



A. Suspected List:

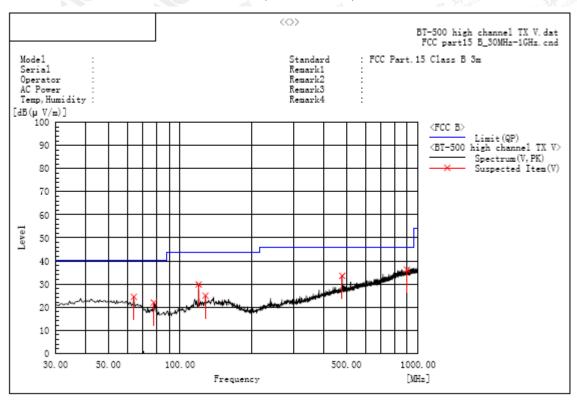
	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	42.125	Н	6.3	17.4	23.7	40.0	16.3	Pass	100.0	194.0
	119.725	Н	10.9	15.4	26.3	43.5	17.2	Pass	200.0	316.2
	240.005	Н	9.4	16.2	25.6	46.0	20.4	Pass	100.0	60.0
K 3	320.030	Н	9.6	17.8	27.4	46.0	18.6	Pass	150.0	108.1
	480.080	Н	9.9	22.6	32.5	46.0	13.5	Pass	100.0	56.9
	852.560	Н	6.3	29.6	35.9	46.0	10.1	Pass	100.0	40.0

RESULT: PASS



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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



A. Suspected List:

F	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
	63.950	V	8.7	15.7	24.4	40.0	15.6	Pass	100.0	132.4
	77.530	V	9.5	12.5	22.0	40.0	18.0	Pass	150.0	199.3
Г	119.725	V	14.4	15.4	29.8	43.5	13.7	Pass	100.0	11.5
í	127.970	V	8.9	16.1	25.0	43.5	18.5	Pass	100.0	29.3
3	480.080	V	11.0	22.6	33.6	46.0	12.4	Pass	150.0	223.3
	897.180	v	6.2	30.1	36.3	46.0	9.7	Pass	200.0	90.1

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

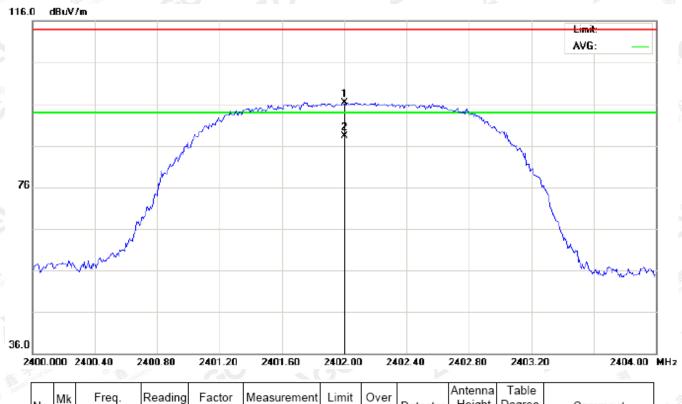


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RADIATED EMISSION ABOVE 1GHz

For Fundamental

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



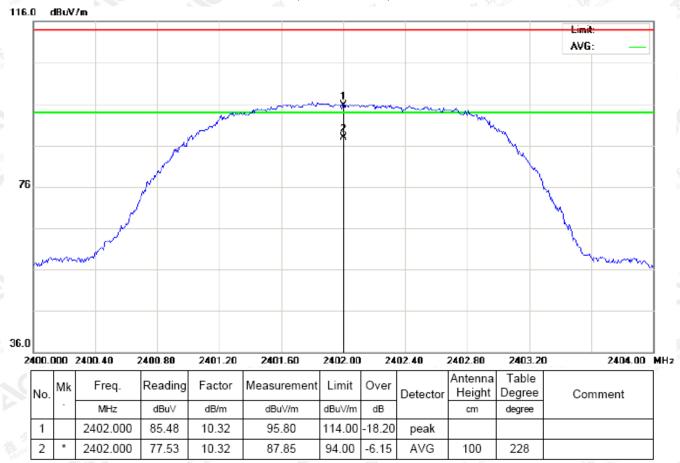
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	85.97	10.32	96.29	114.00	-17.71	peak			
2	*	2402.000	78.05	10.32	88.37	94.00	-5.63	AVG	100	105	

RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

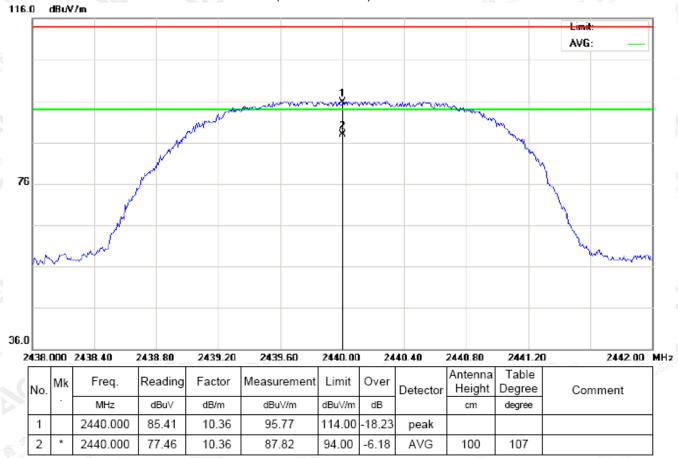


RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

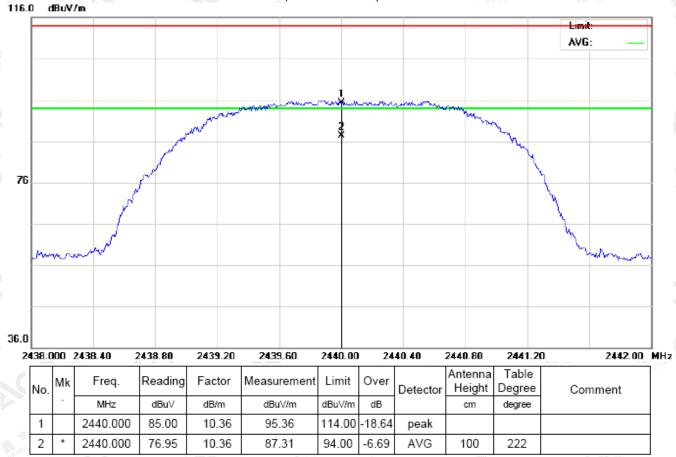


RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



RESULT: PASS

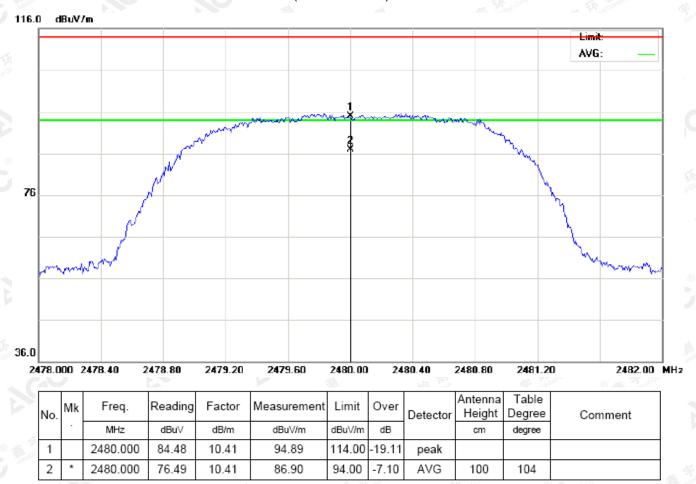
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



RESULT: PASS

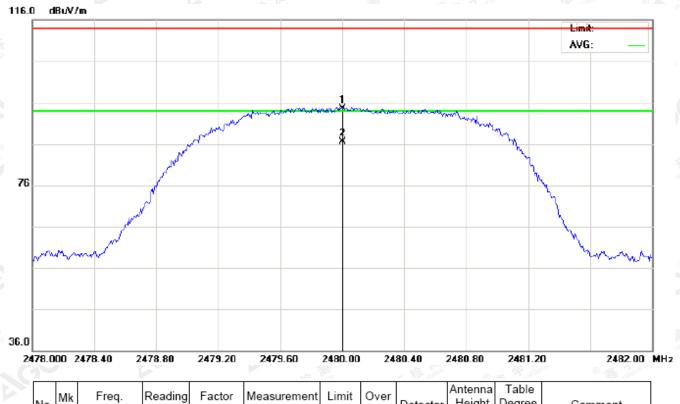
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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
1	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	84.00	10.41	94.41	114.00	-19.59	peak			
2	*	2480.000	76.00	10.41	86.41	94.00	-7.59	AVG	100	229	

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.97	10.32	96.29	114	-17.71	Horizontal
2402	85.48	10.32	95.80	114	-18.20	Vertical
2440	85.41	10.36	95.77	114	-18.23	Horizontal
2440	85.00	10.36	95.36	114	-18.64	Vertical
2480	84.48	10.41	94.89	114	-19.11	Horizontal
2480	84.00	10.41	94.41	114	-19.59	Vertical

Average value

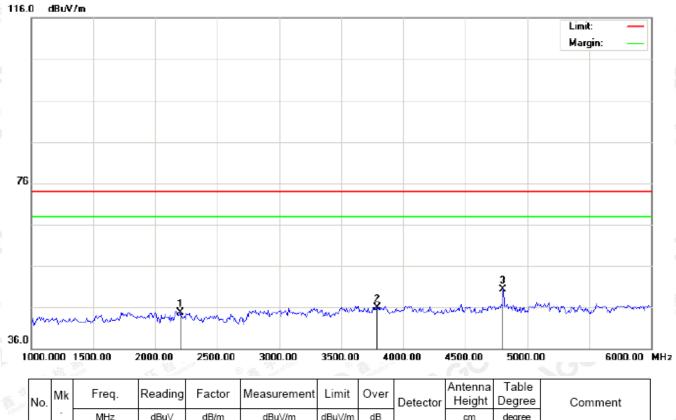
Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	78.05	10.32	88.37	94	-5.63	Horizontal	
2402	77.53	10.32	87.85	94	-6.15	Vertical	
2440	77.46	10.36	87.82	94	-6.18	Horizontal	
2440	76.95	10.36	87.31	94	-6.69	Vertical	
2480	76.49	10.41	86.90	94	-7.10	Horizontal	
2480	76.00	10.41	86.41	94	-7.59	Vertical	



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For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



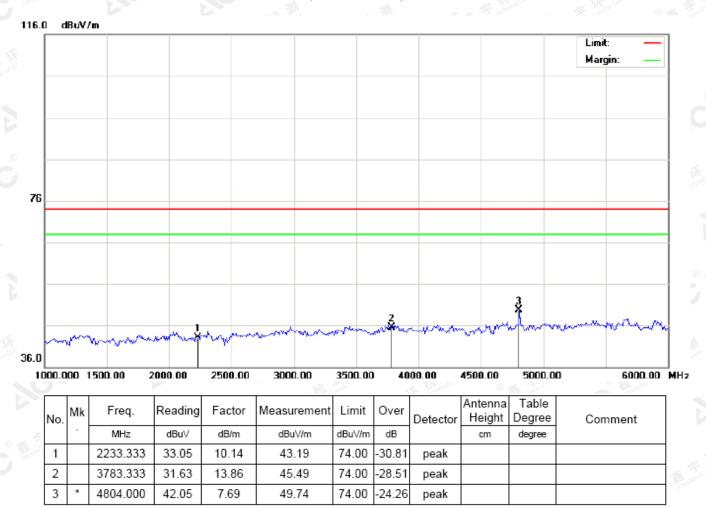
17K	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
	1		2200.000	34.65	10.10	44.75	74.00	-29.25	peak			
	2		3791.667	32.02	13.91	45.93	74.00	-28.07	peak			
Ī	3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

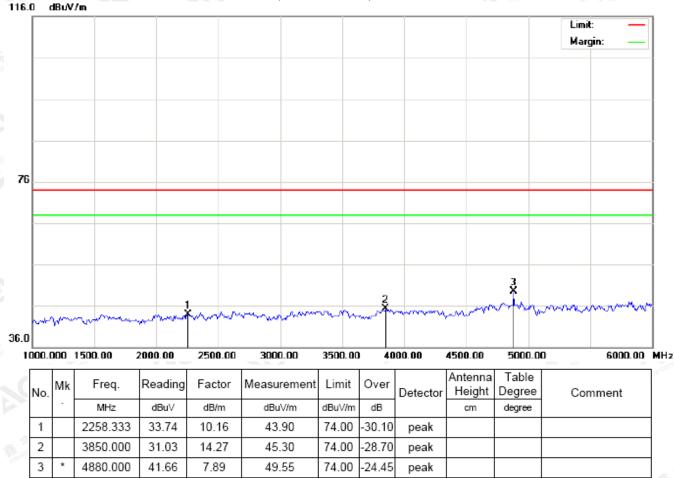


RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



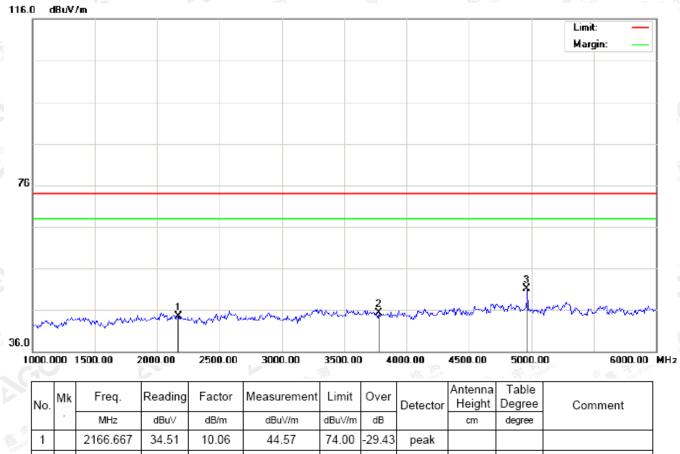
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
3		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
stat	1		2250.000	34.83	10.15	44.98	74.00	-29.02	peak			
	2		3250.000	33.36	11.87	45.23	74.00	-28.77	peak			
	3	*	4880.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



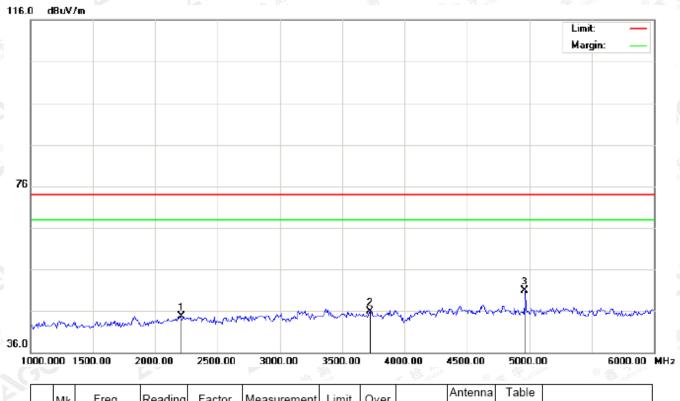
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
8		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
3	1		2166.667	34.51	10.06	44.57	74.00	-29.43	peak			
ſ	2		3775.000	31.57	13.80	45.37	74.00	-28.63	peak			
	3	*	4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

RESULT: PASS



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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2208.333	34.64	10.11	44.75	74.00	-29.25	peak			
2		3725.000	32.42	13.50	45.92	74.00	-28.08	peak			
3	*	4960.000	42.91	8.09	51.00	74.00	-23.00	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



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10. BAND EDGE EMISSION

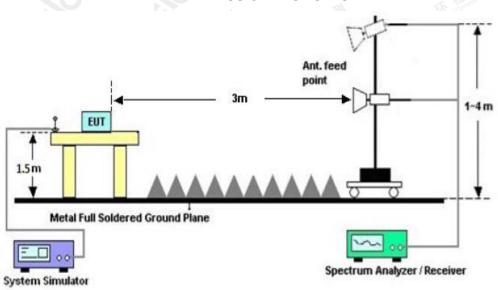
10.1. MEASUREMENT PROCEDURE

- The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)
2200	2405
2478	2500

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP

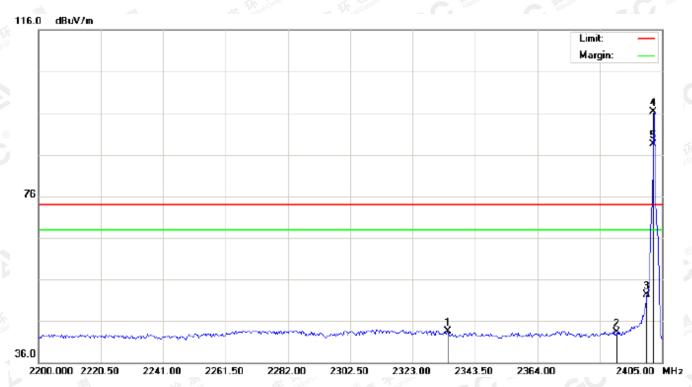




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10.3 RADIATED TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2334.617	33.31	10.25	43.56	74.00	-30.44	peak			
2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
3		2400.000	41.97	10.32	52.29	74.00	-21.71	peak			
4	*	2402.000	85.92	10.32	96.24	74.00	22.24	peak			
5	Х	2402.000	78.10	10.32	88.42	74.00	14.42	AVG	100	106	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
2	1		2351.017	32.59	10.27	42.86	74.00	-31.14	peak			
310	2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
	3		2400.000	40.06	10.32	50.38	74.00	-23.62	peak			
	4	*	2402.000	85.54	10.32	95.86	74.00	21.86	peak			
	5	Х	2402.000	77.47	10.32	87.79	74.00	13.79	AVG	100	220	

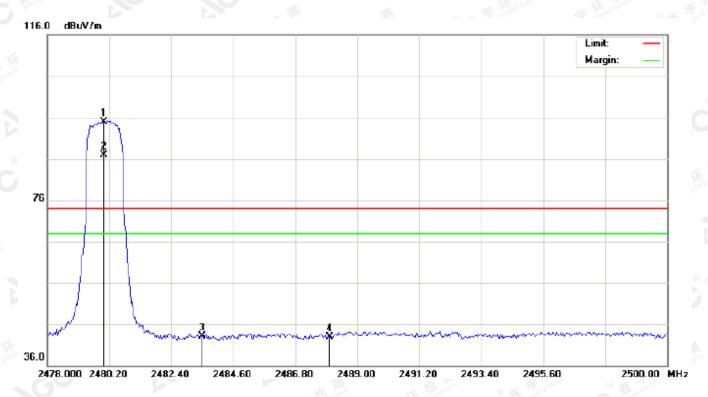
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



N	lo.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
3		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
(3)	1	*	2480.000	84.43	10.41	94.84	74.00	20.84	peak			
	2	Х	2480.000	76.44	10.41	86.85	74.00	12.85	AVG	100	101	
	3		2483.500	32.69	10.41	43.10	74.00	-30.90	peak			
	4		2488.010	32.43	10.42	42.85	74.00	-31.15	peak			

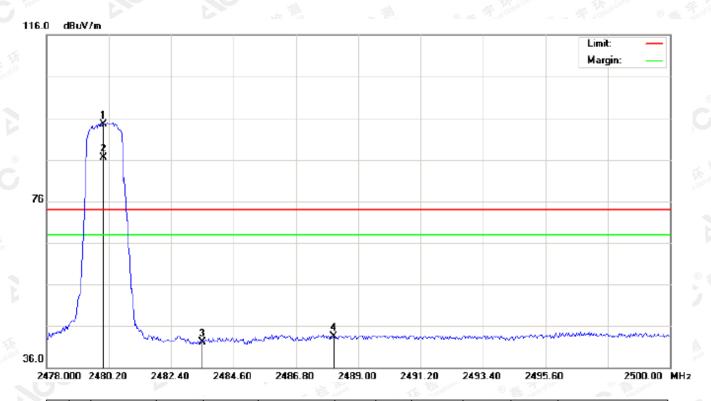
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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
ă			MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
ď	1	*	2480.000	84.06	10.41	94.47	74.00	20.47	peak			
	2	Х	2480.000	76.07	10.41	86.48	74.00	12.48	AVG	100	223	
	3		2483.500	31.76	10.41	42.17	74.00	-31.83	peak			
	4		2488.120	33.16	10.42	43.58	74.00	-30.42	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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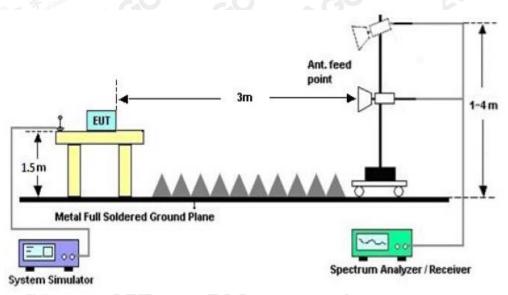
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



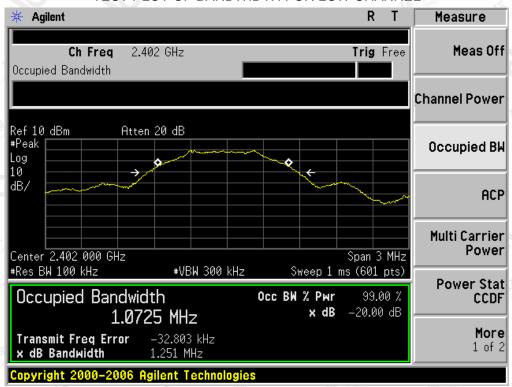
11.3. LIMITS AND MEASUREMENT RESULTS

		4.DL 11.46								
BLUET	LUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT									
	Measurement Result									
Applicable Limits		Donalf.								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
The State of the Company	Low Channel	1.073	1.251	PASS						
N/A	Middle Channel	1.076	1.249	PASS						
	High Channel	1.078	1.240	PASS						

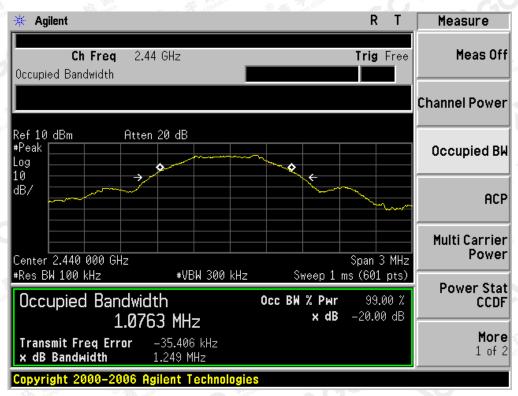
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

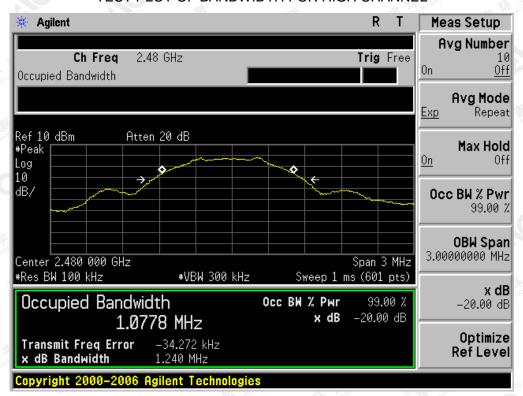


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

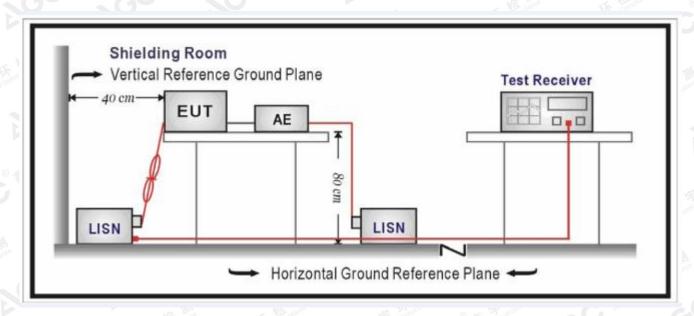
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	8 Age 12	46/						
5MHz~30MHz	60	50						

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC voltage by PC linked to adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

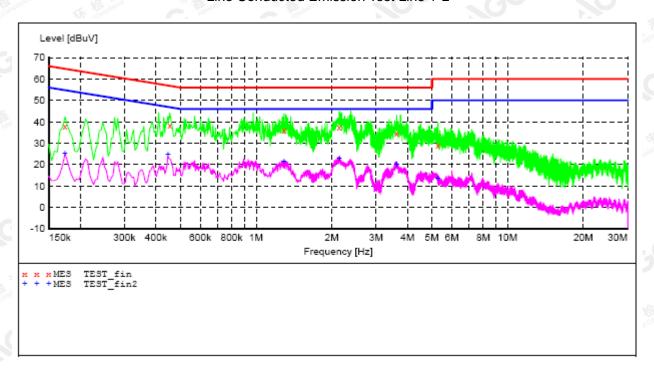
- EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000 0.454000 1.294000 2.138000 3.622000 5.286000	37.90 38.20 35.90 37.60 34.50 28.90	10.0 10.0 10.1 9.9 10.1 10.2	65 57 56 56 56	26.9 18.6 20.1 18.4 21.5 31.1	QP QP QP QP QP	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

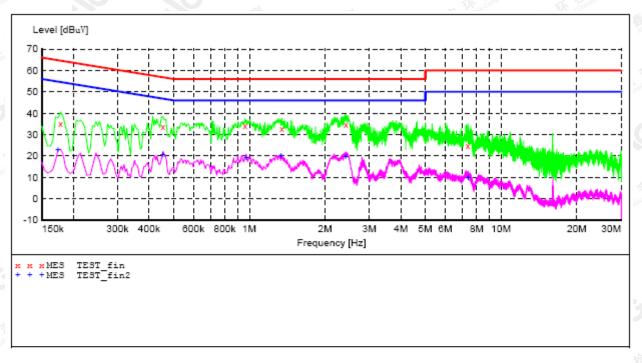
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000 0.446000	25.10 24.60	10.0 10.0	55 47	29.7 22.3	AV	L1 L1	FLO FLO
1.294000 2.146000	21.40	10.1 9.9	46 46	24.6 23.1	AV AV	L1 L1	FLO FLO
3.622000	20.10	10.1	46	25.9	AV	L1	FLO
5.286000	13.40	10.2	50	36.6	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



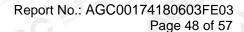
MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.178000	35.30	10.0	65	29.3	QP	N	FLO
0.454000 0.962000	33.90 34.00	10.0 10.1	57 56	22.9 22.0	QP QP	N N	FLO FLO
1.346000 2.422000	32.90 34.40	10.0	56 56	23.1 21.6	QP OP	N N	FLO FLO
7.386000	24.80	9.9	60	35.2	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	22.80	10.0	55	32.0	AV	N	FLO
0.454000	20.50	10.0	47	26.3	AV	N	FLO
0.974000	19.00	10.1	46	27.0	AV	N	FLO
1.338000	20.00	10.0	46	26.0	AV	N	FLO
2.414000	19.80	9.9	46	26.2	AV	N	FLO
7.394000	10.00	9.9	50	40.0	AV	N	FLO

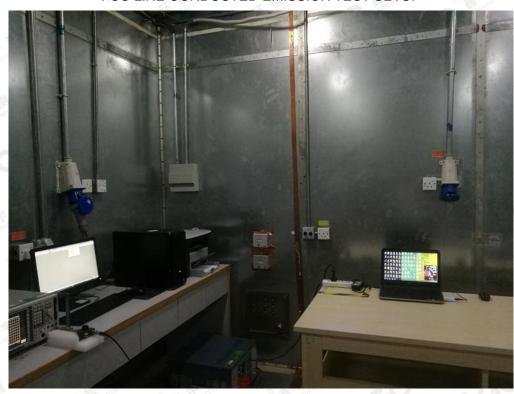
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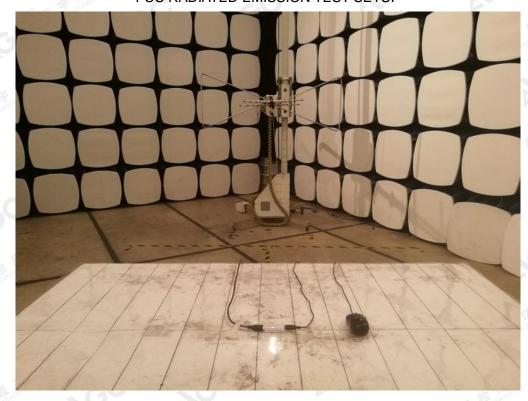


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



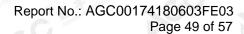
FCC RADIATED EMISSION TEST SETUP



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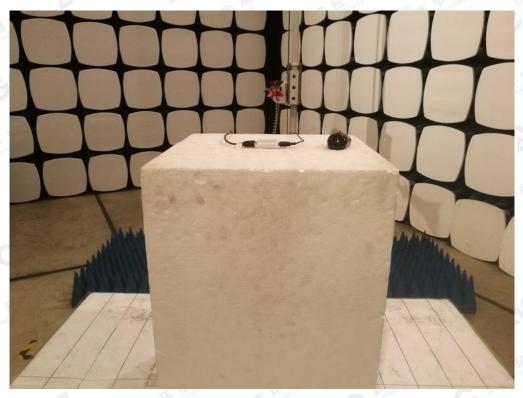
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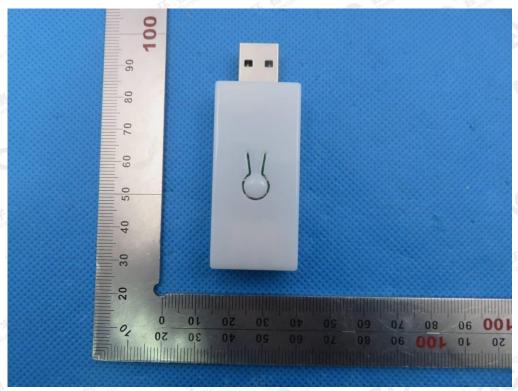


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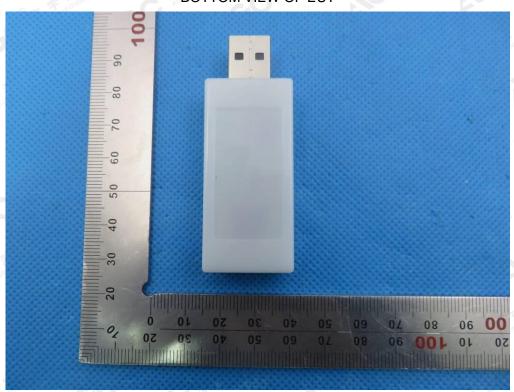


APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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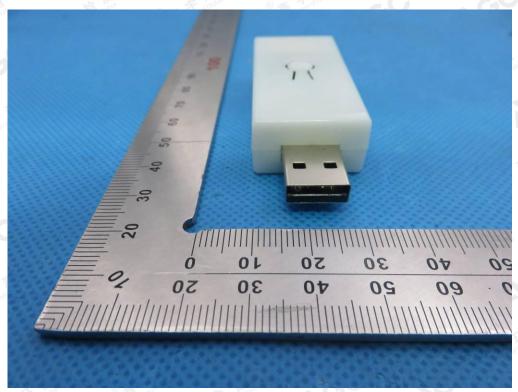
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FRONT VIEW OF EUT



BACK VIEW OF EUT



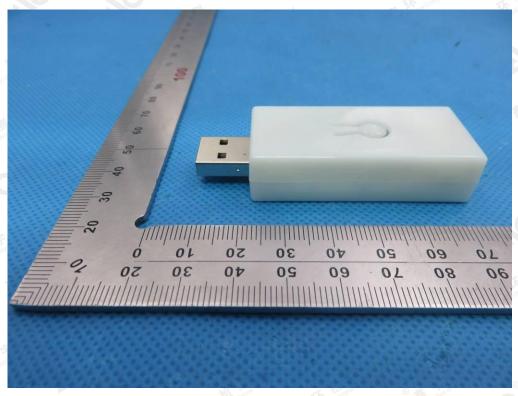
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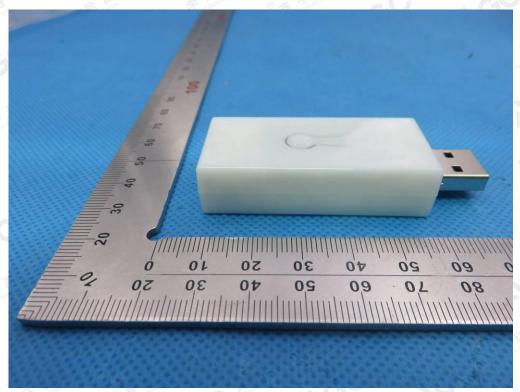
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LEFT VIEW OF EUT



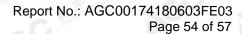
RIGHT VIEW OF EUT



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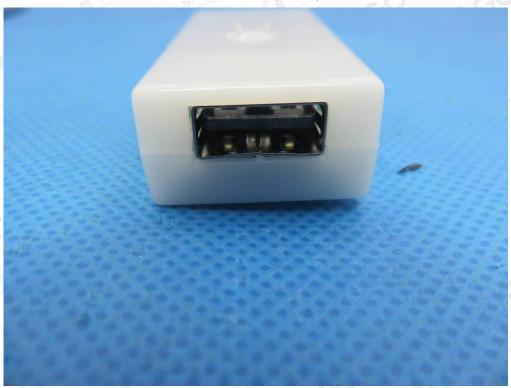




VIEW OF EUT (PORT)-1



VIEW OF EUT (PORT)-2

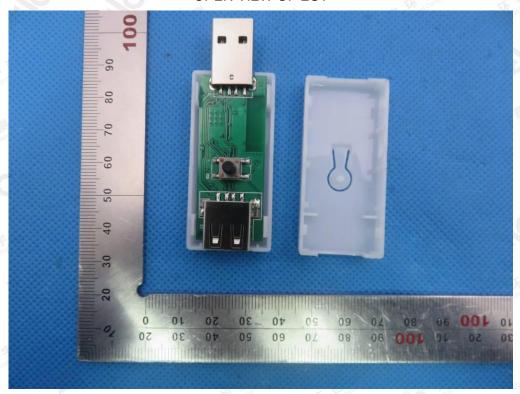


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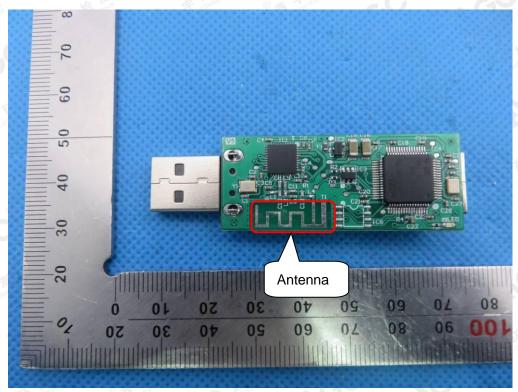
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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



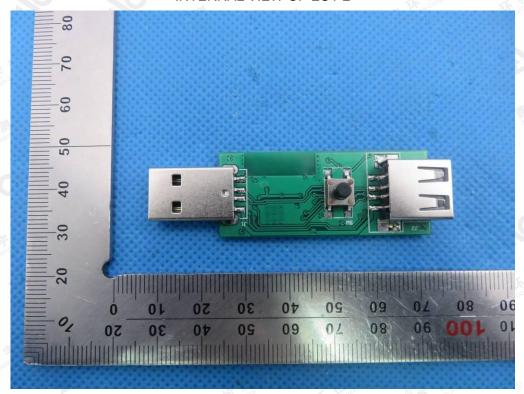
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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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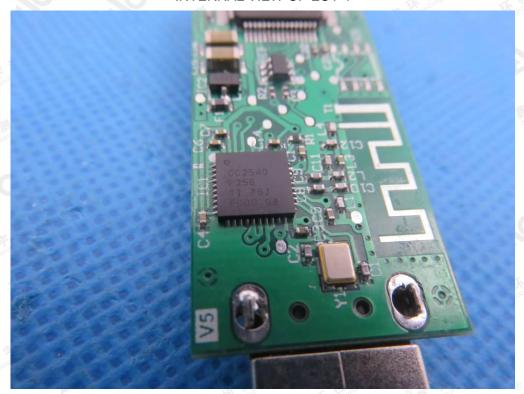
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INTERNAL VIEW OF EUT-4



----END OF REPORT----

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