

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

Channel No.	Power densityLimit(dBm/20kHz)(dBm/3kHz)		Result
Low Channel	-10.664	8	Pass
Middle Channel	-10.705	8	Pass
High Channel	-11.127	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Channel No.	Power density Limit (dBm/20kHz) (dBm/3kHz)		Result
Low Channel	-13.897	8	Pass
Middle Channel	-14.012	8	Pass
High Channel	-13.945	8	Pass





# 802.11b TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL







#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

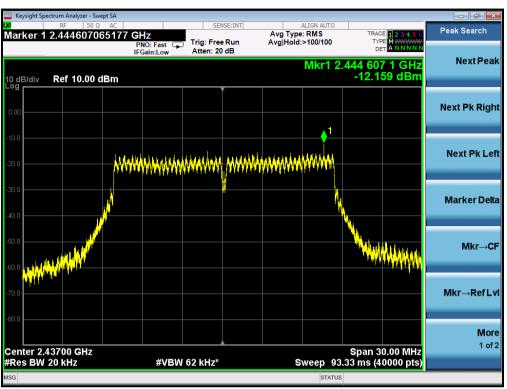
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# 802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



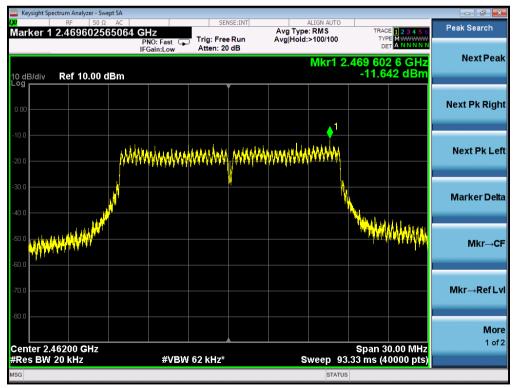




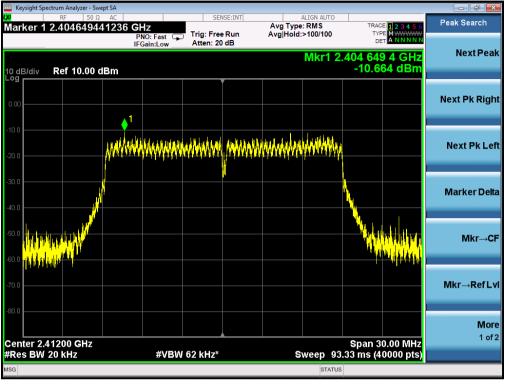
#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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#### TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



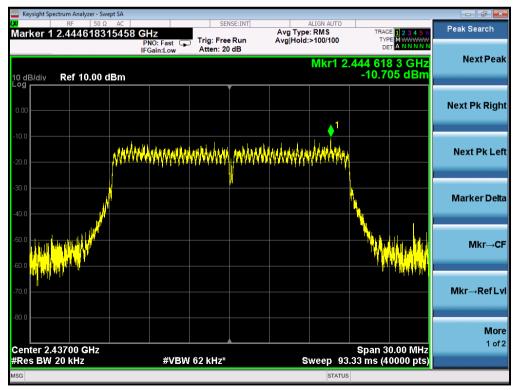




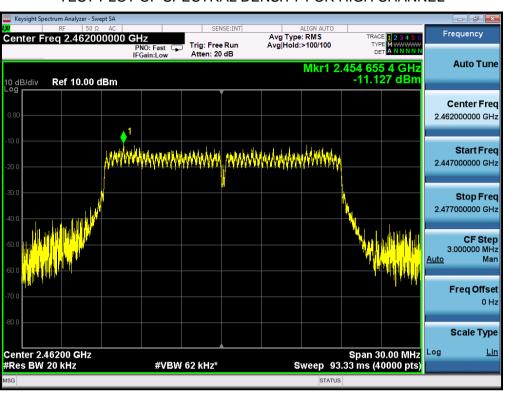
# 802.11n 20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





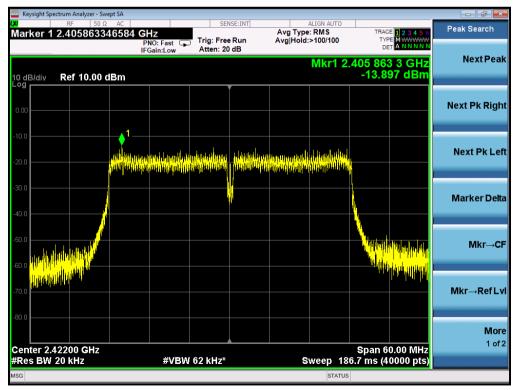


# TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

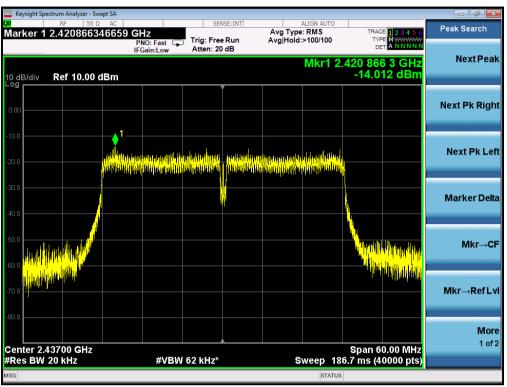
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802.11n 40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL







# TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

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TEST PLO	T OF SPECTR	AL DEN	SITTFOR	HIGH CHANN	IEL
Keysight Spectrum Analyzer - Swept SA  K R F 50 Ω AC	SEN	ISE:INT	ALIGN AUTO		
Marker 1 2.435864846621	PNO: Fast 😱 Trig: Free	eRun A	Avg Type: RMS Avg Hold:>100/100	TRACE 123456 TYPE MWWWW DET A N N N N N	Peak Search
	IFGain:Low Atten: 20	dB	Mkr1 2	.435 864 8 GHz	Next Peak
10 dB/div Ref 10.00 dBm				-13.945 dBm	
					Next Pk Right
0.00					noxt i krught
-10.0					
-20.0	linging bir bahan tang bir				Next Pk Left
-30.0	Alini pinjan palita palita palita palita.	i natrandiarati.	and that the bottom is a second	1	
					Marker Delta
-40.0					
-50.0				Walk and the shire	Mkr→CF
-60.0					
-70.0				e dana atte da	Mkr→RefLvl
-80.0					More
Center 2.45200 GHz				Span 60.00 MHz	1 of 2
#Res BW 20 kHz	#VBW 62 kHz*		Sweep 18	6.7 ms (40000 pts)	
			314103		

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



# 7. RADIATED EMISSION

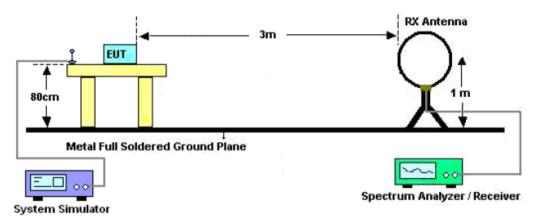
#### 7.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

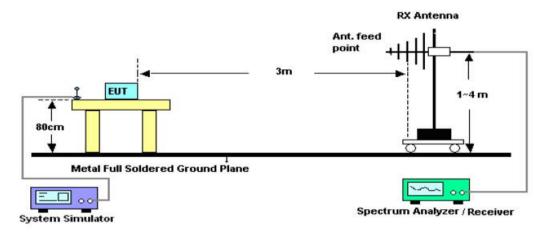


#### 7.2. TEST SETUP

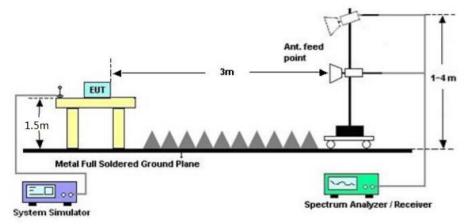
Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz





#### 7.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

# 7.4. TEST RESULT

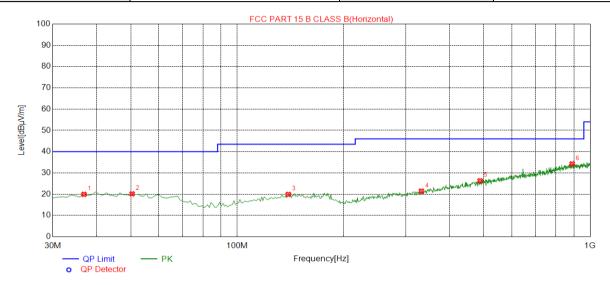
#### **RADIATED EMISSION BELOW 30MHZ**

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



# **RADIATED EMISSION BELOW 1GHZ**

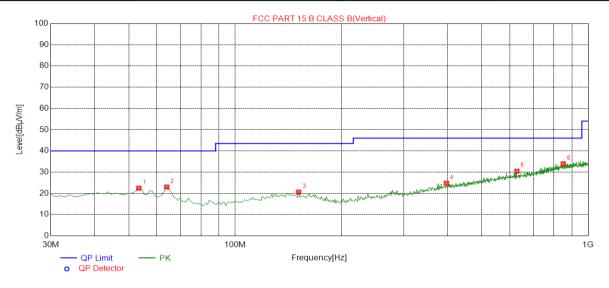
EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal



Suspe	Suspected Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	19.95	13.89	40.00	20.05	150	180	Horizontal
2	50.3700	20.16	14.31	40.00	19.84	200	240	Horizontal
3	139.6100	19.90	14.21	43.50	23.60	100	90	Horizontal
4	332.6400	21.47	16.15	46.00	24.53	200	290	Horizontal
5	487.8400	26.31	20.64	46.00	19.69	150	280	Horizontal
6	889.4200	34.26	28.10	46.00	11.74	150	30	Horizontal



EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical



Suspe	Suspected Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.2800	22.43	14.08	40.00	17.57	150	190	Vertical
2	63.9500	22.99	12.87	40.00	17.01	200	50	Vertical
3	151.2500	20.59	14.25	43.50	22.91	100	150	Vertical
4	396.6600	24.79	18.54	46.00	21.21	150	330	Vertical
5	628.4900	30.43	23.35	46.00	15.57	150	60	Vertical
6	850.6200	33.95	27.55	46.00	12.05	150	70	Vertical

#### **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.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.



# **RADIATED EMISSION ABOVE 1GHZ**

EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype		
4824.074	44.34	3.72	48.06	74	-25.94	peak		
4824.067	40.41	3.72	44.13	54	-9.87	AVG		
7236.120	43.63	8.15	51.78	74	-22.22	peak		
7236.057	41.15	8.15	49.3	54	-4.7	AVG		
Remark:								
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.080	44.68	3.72	48.4	74	-25.6	peak
4824.034	40.45	3.72	44.17	54	-9.83	AVG
7236.110	43.12	8.15	51.27	74	-22.73	peak
7236.057	34.51	8.15	42.66	54	-11.34	AVG
Remark:						
Factor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.			



EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4874.042	46.11	3.75	49.86	74	-24.14	peak	
4874.055	43.26	3.75	47.01	54	-6.99	AVG	
7311.026	43.17	8.16	51.33	74	-22.67	peak	
7311.095	39.85	8.16	48.01	54	-5.99	AVG	
Remark:							
actor = Antenna Factor + Cable Loss – Pre-amplifier.							

EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.029	46.89	3.75	50.64	74	-23.36	peak
4874.107	41.62	3.75	45.37	54	-8.63	AVG
7311.042	44.26	8.16	52.42	74	-21.58	peak
7311.092	40.37	8.16	48.53	54	-5.47	AVG
Remark:						
Remark.						
actor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.			



EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value rype	
4924.059	46.67	3.81	50.48	74	-23.52	peak	
4924.103	40.36	3.81	44.17	54	-9.83	AVG	
7386.106	46.16	8.19	54.35	74	-19.65	peak	
7386.120	41.62	8.19	49.81	54	-4.19	AVG	
Remark:							
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.039	43.79	3.81	47.6	74	-26.4	peak
4924.113	41.59	3.81	45.4	54	-8.6	AVG
7386.065	44.38	8.19	52.57	74	-21.43	peak
7386.099	38.8	8.19	46.99	54	-7.01	AVG
Remark:						
Factor = Ante	enna Factor + C	able Loss –	Pre-amplifier.			

#### **RESULT: PASS**

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.



#### 8. BAND EDGE EMISSION

#### 8.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

#### 8.2. TEST SET-UP

same as 7.2

#### Note:

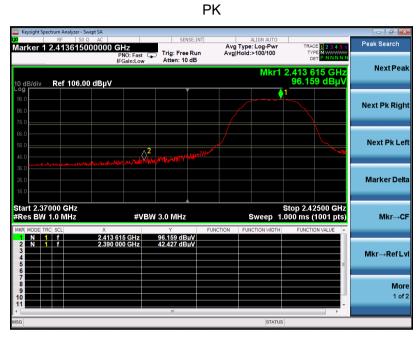
1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

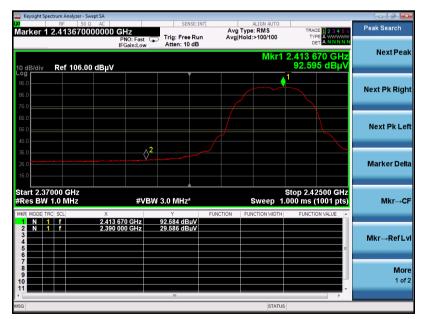


#### 8.3. TEST RESULT

EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



AV

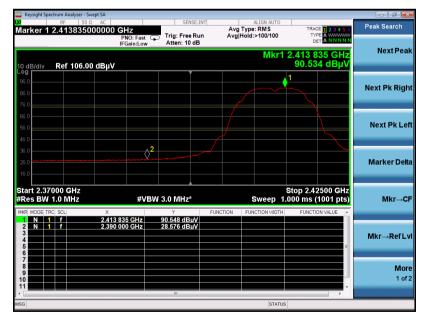




EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



#### AV





EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical



#### AV





EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal



#### AV





EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

ΡK ight Spectrum Analyzer - Swept S Regight Spectrum Alwayser 50 Ω AC RF 50 Ω AC Marker 1 2.41950000000 GHz PNO: Fast IFGainLow Atten: 10 dB ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search TYPE M NextPeal Mkr1 2.419 500 GHz 97.076 dBµV Ref 106.00 dBµV dB/di Next Pk Right Next Pk Left 2 Marker Delta Stop 2.42500 GHz Sweep 1.000 ms (1001 pts) Start 2.37000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Mkr→C 97.076 dBµV 40.956 dBµV 2.419 500 GHz 2.390 000 GHz Mkr→RefLvl More 1 of 2 STATUS







EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal









EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

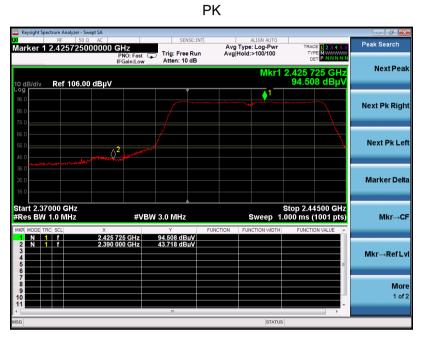








EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2422MHZ	Antenna	Horizontal





larker 1	RF 50 S	2 AC	SENSE:INT	ALIGN AUTO Avg Type: RMS	TRACE 1 2 3 4 5 6	Peak Search
		PNO: Fast IFGain:Low	Trig: Free Run Atten: 10 dB	Avg Hold:>100/100		
) dB/div	Ref 106.0	0 dBµV		Mkr1 2	.406 300 GHz 85.263 dBµV	NextPea
<b>°g</b> 36.0 36.0						Next Pk Rig
76.0 56.0 56.0						Next Pk Le
46.0 36.0 26.0		2 			<b>\</b>	Marker Del
	000 GHz 1.0 MHz	#V	3W 3.0 MHz*	Si Sweep 1.0	op 2.44500 GHz 00 ms (1001 pts)	Mkr→C
KR MODE TF	f	X 2.406 300 GHz 2.390 000 GHz	Ү F 85.220 dBµV 31.568 dBµV	UNCTION FUNCTION WIDTH	FUNCTION VALUE	
3 4 5					E	Mkr→RefL
6						Мо
6 7 8 9 0						1 of



EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

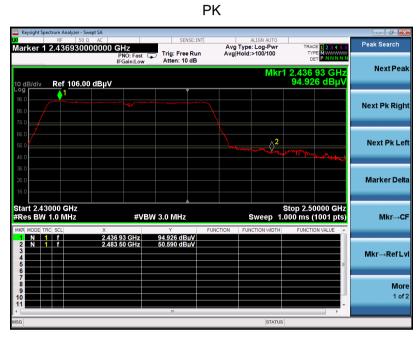








EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal





X		2 AC		SENSE:INT Free Run h: 10 dB	Avg Typ Avg Hold	ALIGN AUTO e: RMS d:>100/100	TRACE TYPE DET	123456 A <del>WWWW</del> A N N N N N	Peak Search
10 dB/div	Ref 106.0	0 dBµV				Mkr	1 2.435 6 85.624	60 GHz I dBµV	NextPeal
96.0 86.0 76.0	<u></u>								Next Pk Righ
66.0 56.0 46.0						\$ <sup>2</sup>			Next Pk Le
36.0 26.0 16.0								an a	Marker Delt
Start 2.43 Res BW		×	#VBW 3.0 M			Sweep 1.	Stop 2.500 000 ms (1	001 pts)	Mkr→C
1 N 1		2.435 60 G 2.483 50 G	Hz 85.630	dBuV			FUNCTION	E	Mkr→RefLv
7 8 9 9 10 11									Mor 1 of
G						STATUS			



EUT	Hair Rituel Analyzer	Model Name	S1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical



AV

Keysight Spectrum Analyzer - Swe	AC 00000 GHz PNO: Fast	SENSE:INT	ALIGN AUTO Avg Type: RMS Avg Hold:>100/100	TRACE 123456 TYPE A WWWW DET A NNNNN	Peak Search
10 dB/div Ref 106.00	IFGain:Low_	Atten: 10 dB	Mkr	1 2.436 79 GHz 83.358 dBµV	Next Pea
96.0 86.0					Next Pk Rigl
76.0 66.0 56.0					Next Pk Le
46.0			2		Marker Del
Start 2.43000 GHz Res BW 1.0 MHz	#VB	AV 3.0 MHz*	Sweep 1	Stop 2.50000 GHz .000 ms (1001 pts)	Mkr→C
1         N         1         f           2         N         1         f           3         -         -         -           4         -         -         -           5         -         -         -	2.436 79 GHz 2.483 50 GHz	83.315 dBµV 35.605 dBµV		FUNCTION VALUE	Mkr→RefL
6 7 8 9 10 11					<b>Mo</b> 1 of
sg		m	STATU	3	



# FC RADIATED EMISSION TEST SETUP BELOW 1GHZ

FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

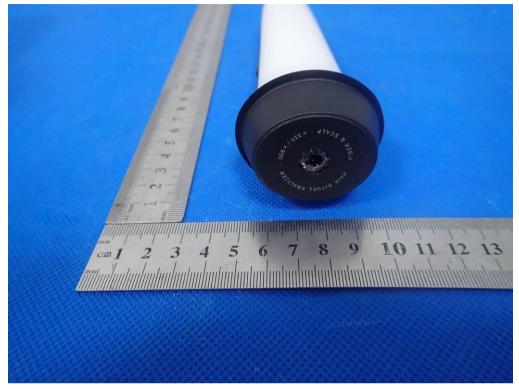




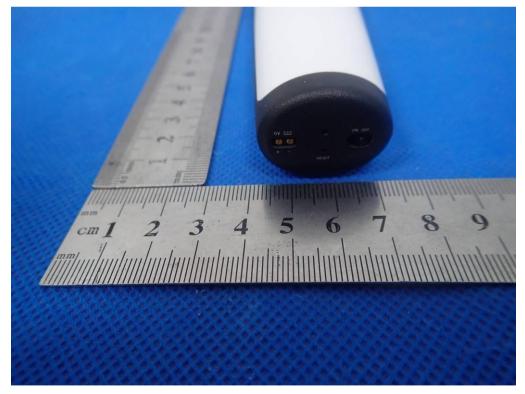
# APPENDIX B: PHOTOGRAPHS OF EUT



# TOP VIEW OF EUT



BOTTOM VIEW OF EUT





#### FRONT VIEW OF EUT

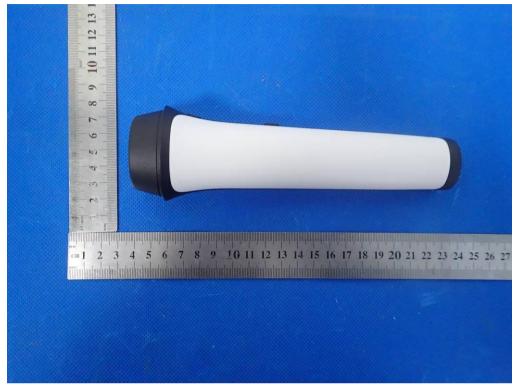


BACK VIEW OF EUT





#### LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 

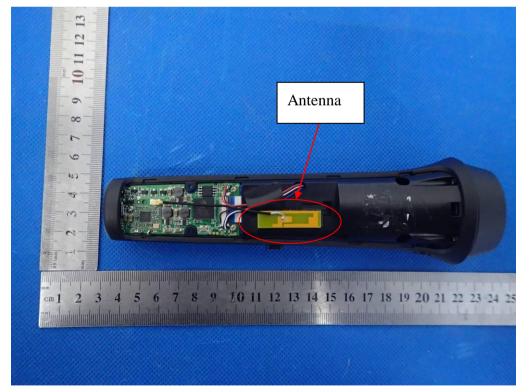




#### **OPEN VIEW OF EUT-1**

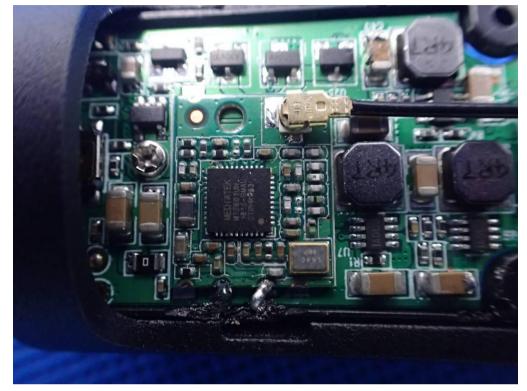


**OPEN VIEW OF EUT-2** 

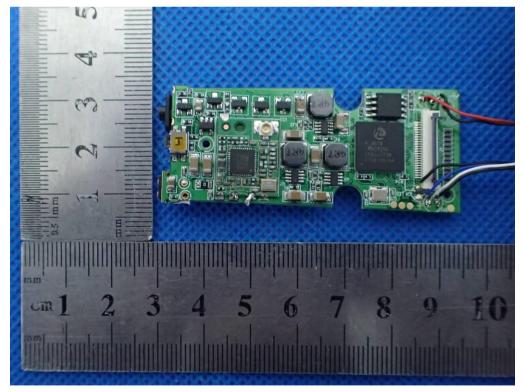




# INTERNAL VIEW OF EUT-1

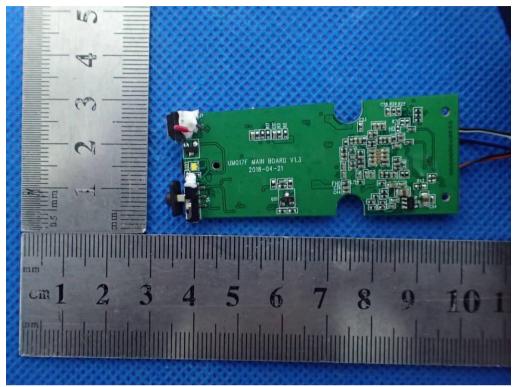


INTERNAL VIEW OF EUT-2

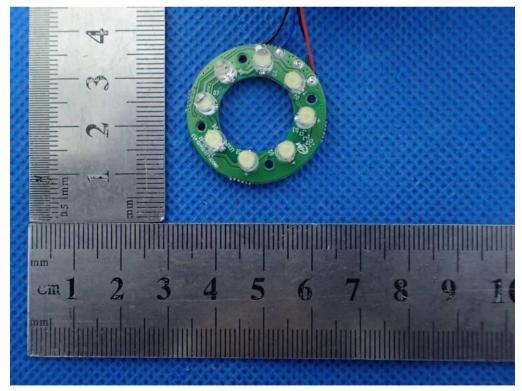




**INTERNAL VIEW OF EUT-3** 

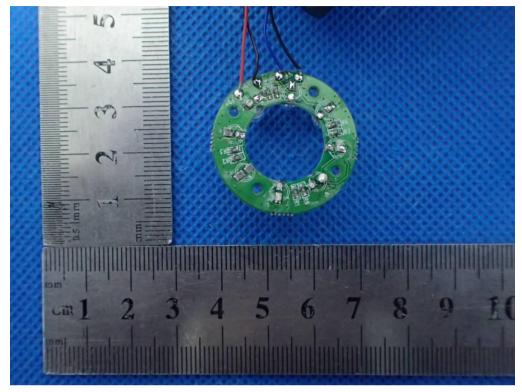


INTERNAL VIEW OF EUT-4





# INTERNAL VIEW OF EUT-5



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