

FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

KYE SYSTEMS CORP.

Smart keyboard

Model Number: SlimStar 8015

Additional Model: SlimStar 8015/K, SlimStar XXXX/K, SlimStar XXXX

FCC ID: FSUGKZHN

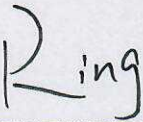
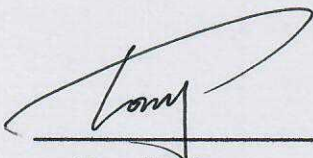
Prepared for:	KYE SYSTEMS CORP.
	No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160,
	Taiwan (R.O.C.)
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
	Tel: 86-769-83081888-808

Report Number:	ESTE-R1909096
Date of Test:	Aug. 19~Sep. 16, 2019
Date of Report:	Sep. 18, 2019

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EST Technology Co., Ltd.

Applicant:	KYE SYSTEMS CORP.		
Address:	No. 492, Sec. 5, Chongxin Rd., Sanchong Dist., New Taipei City 24160, Taiwan (R.O.C.)		
Manufacturer:	Dongguan Kunying Computer Products Co., Ltd		
Address:	Baodun Industrial District, Houjie Town, Dongguan City, Guangdong Province, 523961 China		
E.U.T:	Smart keyboard		
Model Number:	SlimStar 8015		
Additional Model:	SlimStar 8015/K, SlimStar XXXX/K, SlimStar XXXX (X Can be any one number or character from 0 to 9 & A to Z) (Except for the appearance and model name, the rest is identical.)		
Power Supply:	DC 1.5V		
Trade Name:	Genius	Serial No.:	-----
Date of Receipt:	Aug. 19, 2019	Date of Test:	Aug. 19~Sep. 16, 2019
Test Specification:	FCC Part 15 Subpart C (15.249) ANSI C63.10:2013		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	Reviewed by:	Date: Sep. 18, 2019	
 _____ Ring / Assistant	 _____ Tony / Engineer	Approved by:  _____ Iceman Hu / Manager	
Other Aspects:			
None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Smart keyboard
Model Number	:	SlimStar 8015
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	2402-2480MHz
Number of channel	:	40
Field Strength of Fundamental	:	74.89dB μ V/m
Modulation Type	:	GFSK
Sample Type	:	Prototype production

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	0

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Field Strength of Fundamental	15.249(a)	PASS
4	Radiated Spurious Emissions and Band Edge	15.205 15.209 15.249(a)(c)(d)(e) 15.35(b)	PASS
5	20dB Bandwidth	15.215	PASS
6	AC Power Line Conducted Emissions	15.207	N/A
7	Antenna Requirement	15.203	PASS

Note:

(1) "N/A" denotes test is not applicable in this test report

2.2. Test Facilities

EMC Lab

: Certified by CNAS, CHINA
Registration No.: L5288
Date of registration: November 13, 2017

Certificated by FCC, USA
Designation Number: CN1215
Test Firm Registration Number: 722932
Date of registration: November 21, 2017

Certificated by A2LA, USA
Registration No.: 4366.01
Date of registration: November 07, 2017

Certificated by Industry Canada
CAB identifier No.: CN0035
Date of registration: January 04, 2019

Certificated by VCCI, Japan
Registration No.: R-13663; C-14103
Date of registration: July 25, 2017
This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L2-64
Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	$\pm 3.48\text{dB}$
Uncertainty for spurious emissions test (30MHz-1GHz)	$\pm 4.60\text{ dB(Polarize: H)}$
	$\pm 4.68\text{ dB(Polarize: V)}$
Uncertainty for spurious emissions test (1GHz to 18GHz)	$\pm 4.96\text{dB}$
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	-	-	-	-

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into test mode by software before test. New battery is used during all test.



(EUT: Smart keyboard)

2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Test Mode	Test Channel
Field Strength of Fundamental	TX	Low/Middle/High
Radiated Spurious Emissions	TX	Low/Middle/High
20dB Bandwidth&99% Occupied Bandwidth	TX	Low/Middle/High
AC Power Line Conducted Emissions	N/A	N/A

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Power Setting of Test Software

Software Name	N/A		
Frequency(MHz)	2402	2440	2480
Setting	N/A	N/A	N/A

2.8. Channel List

Channel	Frequency	Channel	Frequency
1	2402 MHz	21	2442 MHz
2	2404 MHz	22	2444 MHz
3	2406 MHz	23	2446 MHz
4	2408 MHz	24	2448 MHz
5	2410 MHz	25	2450 MHz
6	2412 MHz	26	2452 MHz
7	2414 MHz	27	2454 MHz
8	2416 MHz	28	2456 MHz
9	2418 MHz	29	2458 MHz
10	2420 MHz	30	2460 MHz
11	2422 MHz	31	2462 MHz
12	2424 MHz	32	2464 MHz
13	2426 MHz	33	2466 MHz
14	2428 MHz	34	2468 MHz
15	2430 MHz	35	2470 MHz
16	2432 MHz	36	2472 MHz
17	2434 MHz	37	2474 MHz
18	2436 MHz	38	2476 MHz
19	2438 MHz	39	2478 MHz
20	2440 MHz	40	2480 MHz

2.9. Test Equipment List

For conducted emission test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 14,19	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 14,19	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	EST-E054	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA9120D	EST-E031	LISAI	June 14,19	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	EST-E032	LISAI	June 14,19	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV	EST-E069	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV	EST-E069	LISAI	June 14,19	1 Year

3. FIELD STRENGTH OF FUNDAMENTAL

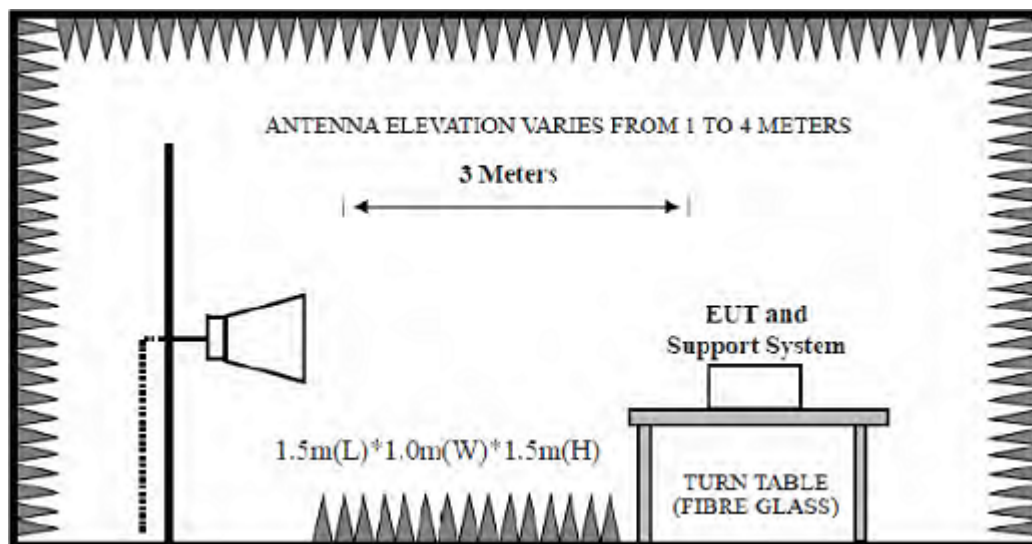
3.1. Limit

Fundamental frequency	Field strength of fundamental@3m (millivolts/meter)	Average Limit@3m dB μ V/m	Peak Limit@3m dB μ V/m
902-928MHz	50	94	114
2400-2483.5MHz	50	94	114
5725-5875MHz	50	94	114
24.0-24.25	250	108	128

Note:

1. Average Limit (dB μ V/m)=20 $\times$ log[1000 $\times$ Field Strength (mV/m)].
2. Peak Limit (dB μ V/m)= Average Limit (dB μ V/m)+20dB

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	$\geq$ OBW
VBW	3 $\times$ RBW
Start frequency	2400MHz
Stop frequency	2483.5GHz
Sweep Time	Auto
Detector	PEAK/AVG
Trace Mode	Max Hold

3.4. Test Procedure

- a. EUT was placed on a turn table, which is 1.5 meter high above the ground.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Spectrum analyzer setting parameters in accordance with section 3.3.
- d. Set the EUT transmit continuously with maximum output power.
- e. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- f. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test,record the average and peak value.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

3.5. Test Result

Test frequency (MHz)	Fundamental frequency (MHz)	Field strength of fundamental level (dB μ V/m)		Limit (dB μ V/m)		Result	Antenna Pole (H/V)
		Avg	Peak	Avg	Peak		
2402	2402.42	64.21	70.85	94	114	Pass	V
	2401.84	66.24	74.61	94	114	Pass	H
2440	2440.41	66.35	71.88	94	114	Pass	V
	2440.41	67.75	74.78	94	114	Pass	H
2480	2480.41	67.50	73.68	94	114	Pass	V
	2479.74	70.14	74.89	94	114	Pass	H

Low Channel(2402MHz)

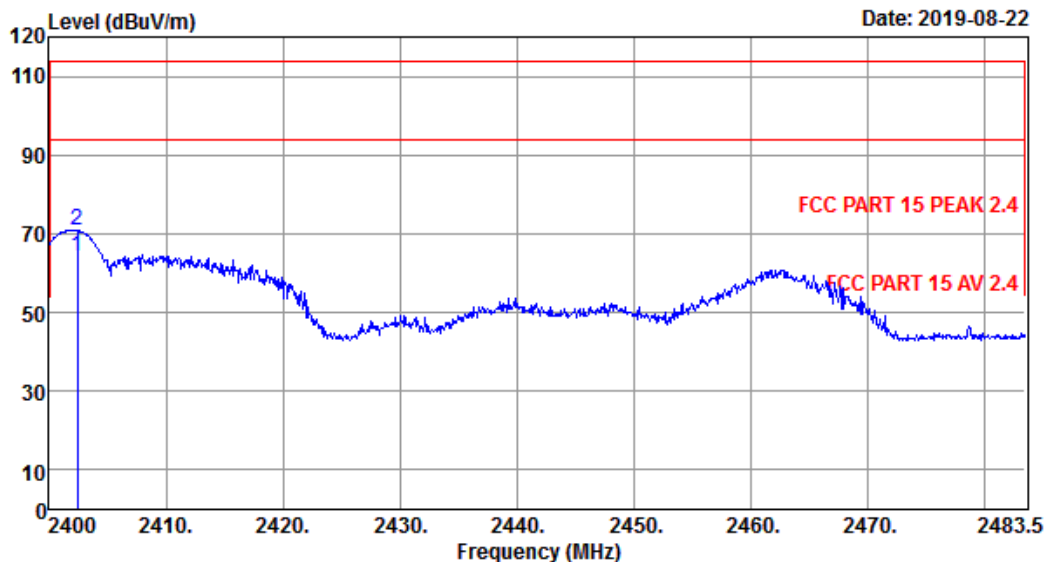
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Data: 13

File: \\EMC-966-1\test data\2019\RF\K\KYE\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 13
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.42	27.26	1.45	34.64	70.14	64.21	94.00	29.79	Average
2	2402.42	27.26	1.45	34.64	76.78	70.85	114.00	43.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

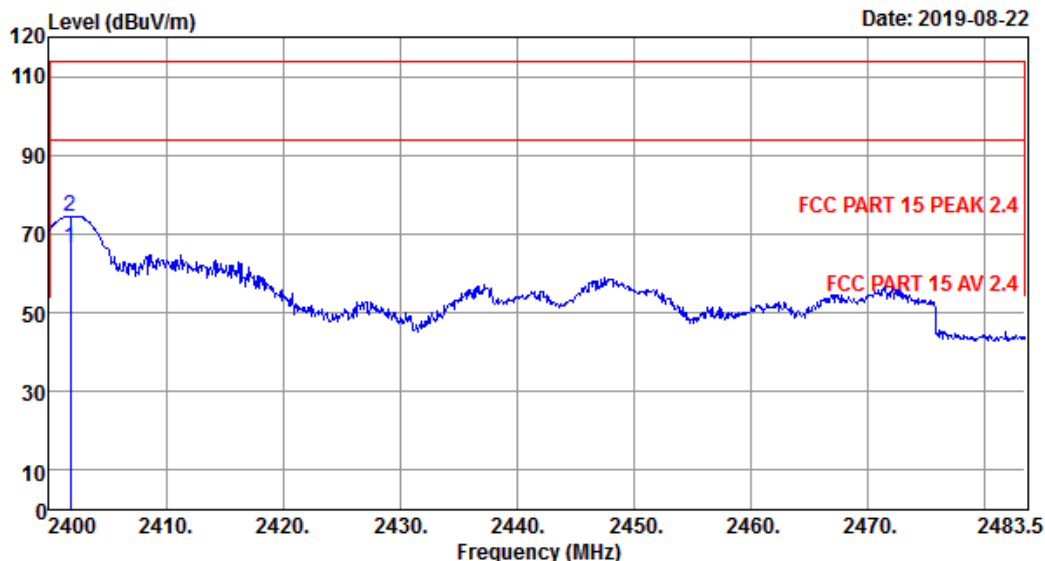
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Data: 14

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 14
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

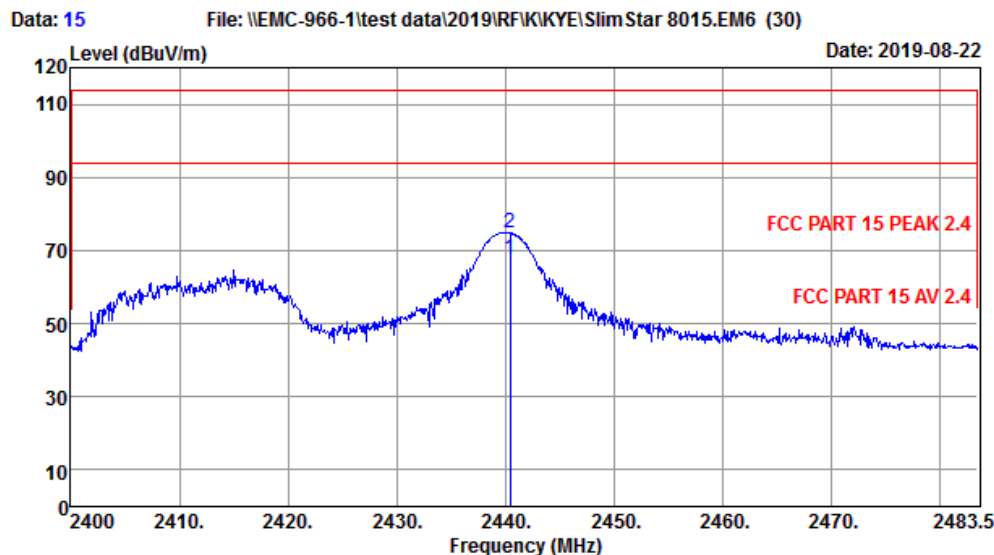
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2401.84	27.26	1.45	34.64	72.17	66.24	94.00	27.76	Average
2	2401.84	27.26	1.45	34.64	80.54	74.61	114.00	39.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Middle Channel(2440MHz)

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Site no. : 1# 966 Chamber Data no. : 15
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.41	27.33	1.47	34.62	73.57	67.75	94.00	26.25	Average
2	2440.41	27.33	1.47	34.62	80.60	74.78	114.00	39.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

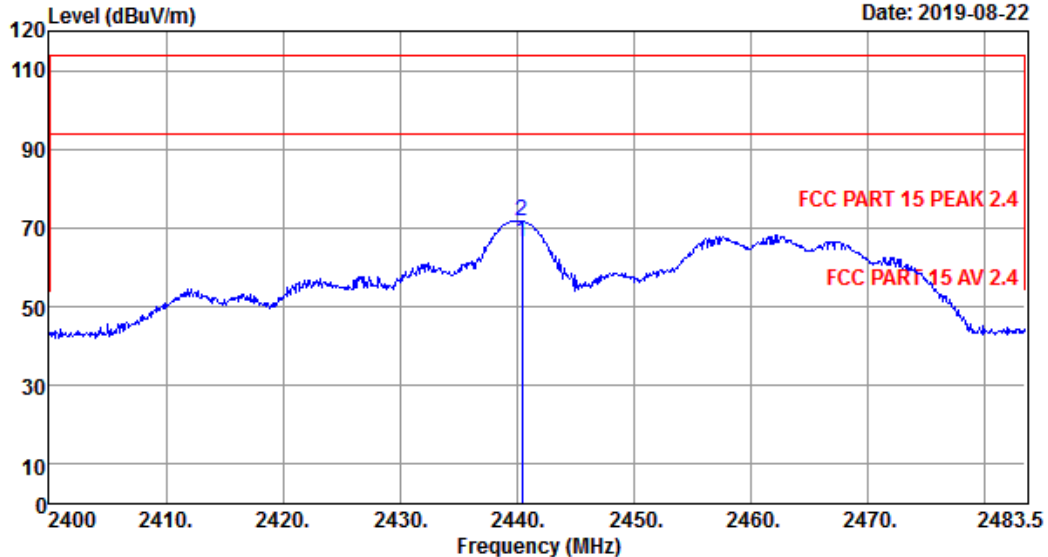
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Data: 16

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : site Data no. : 16
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2440MHz

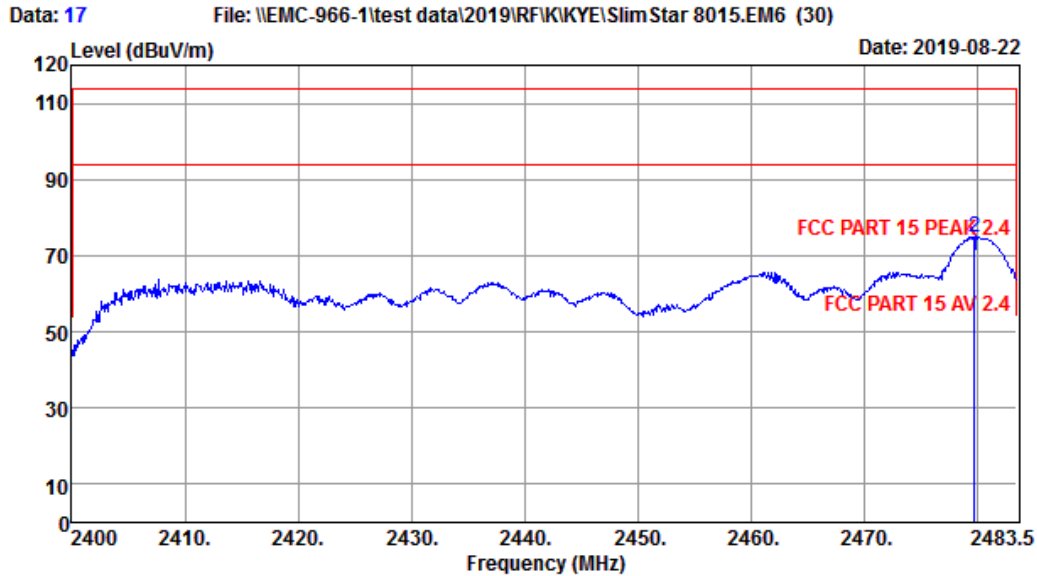
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.41	27.33	1.47	34.62	72.17	66.35	94.00	27.65	Average
2	2440.41	27.33	1.47	34.62	77.70	71.88	114.00	42.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

High Channel(2480MHz)

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Site no. : 1# 966 Chamber Data no. : 17
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.74	27.38	1.48	34.61	75.89	70.14	94.00	23.86	Average
2	2479.74	27.38	1.48	34.61	80.64	74.89	114.00	39.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

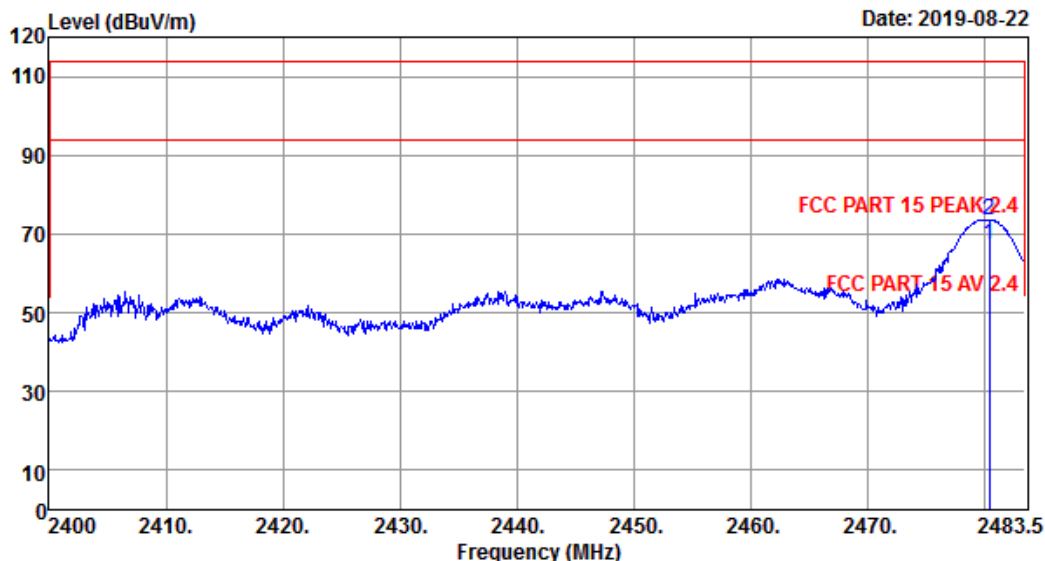
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Data: 18

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 18
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.41	27.38	1.48	34.61	73.25	67.50	94.00	26.50	Average
2	2480.41	27.38	1.48	34.61	79.43	73.68	114.00	40.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

4. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

4.1. Limit

- (a) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of harmonics@3m (microvolts/meter)	Average Limit@3m dBμV/m	Peak Limit@3m dBμV/m
902-928MHz	500	54	74
2400-2483.5MHz	500	54	74
5725-5875MHz	500	54	74
24.0-24.25	2500	68	88

- (b) Field strength limits are specified at a distance of 3 meters.
 (c) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

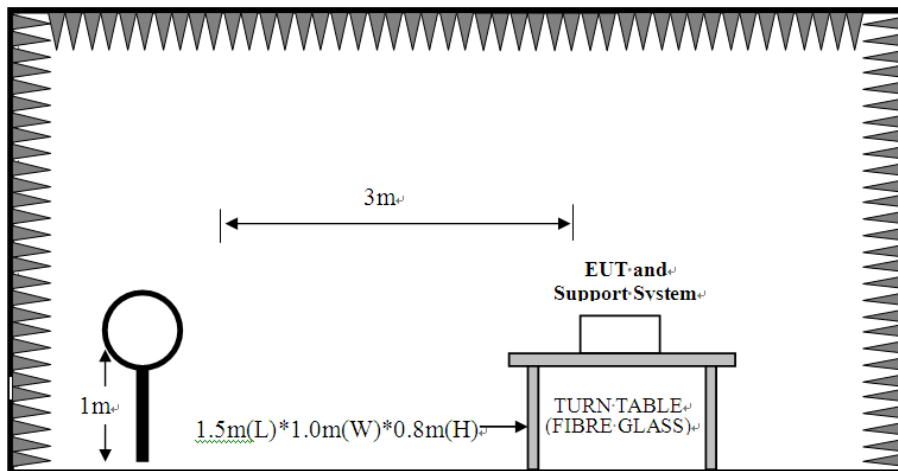
- (d) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation

Note:

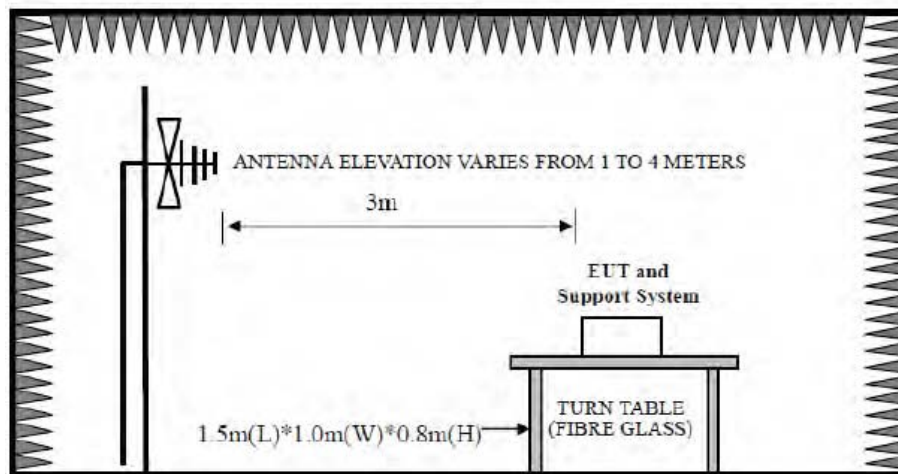
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device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

4.2. Test Setup

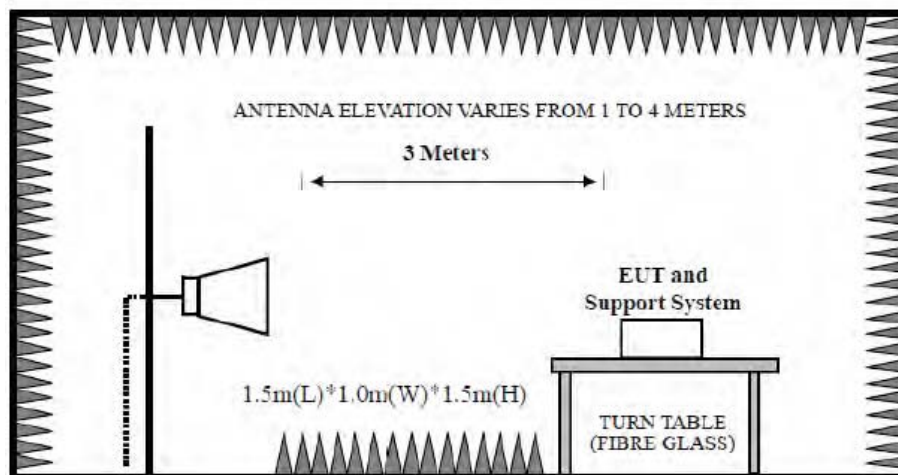
9kHz~30MHz



30~1000MHz



Above 1GHz



4.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For 30MHz-1000MHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1000MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Start frequency	1GHz
Stop frequency	10 Times Carrier Frequency
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

4.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 4.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz/2440MHz/2480MHz are fundamental frequency.

4.5. Test Result

Radiated Emissions Below 1GHz

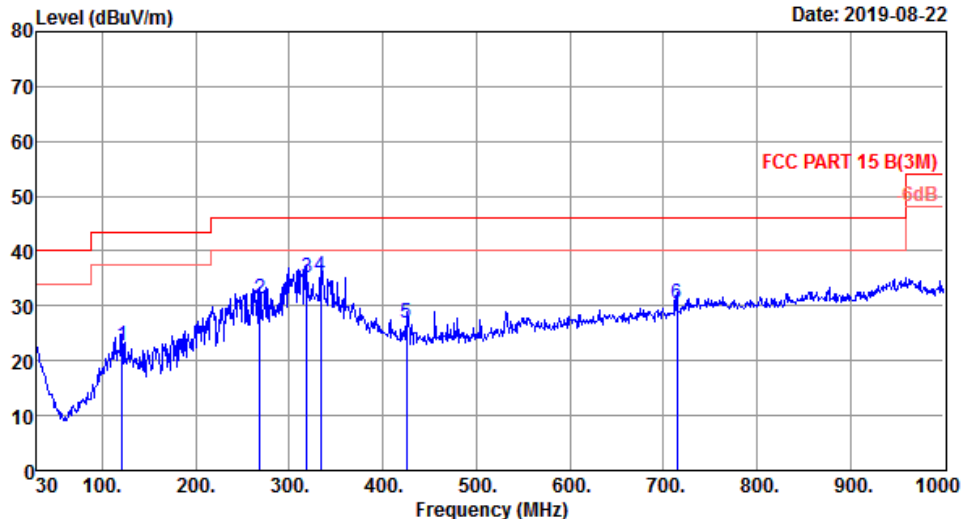
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Data: 29

File: \\EMC-966-1\test data\2019\RF\K\KYE\SlimStar 8015.EM6 (30)

Date: 2019-08-22



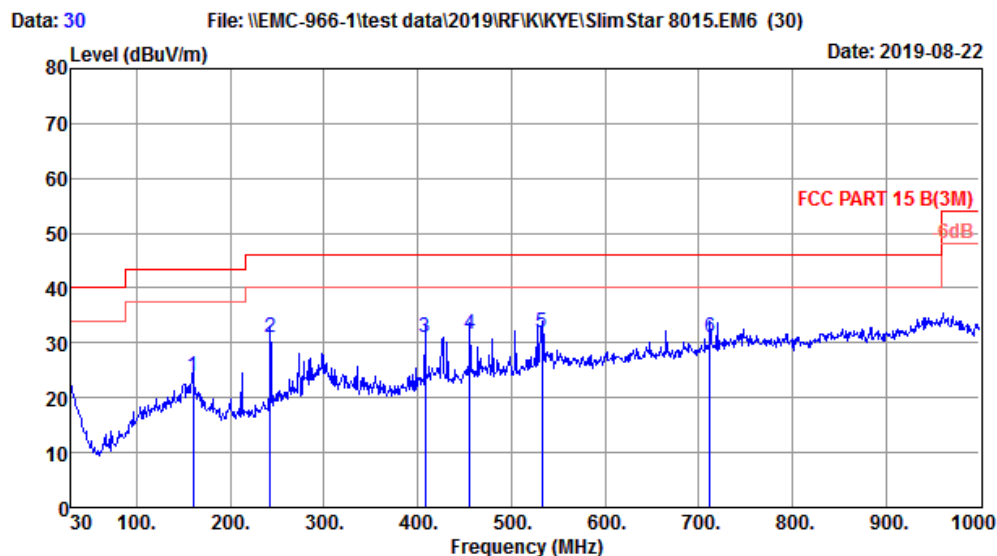
Site no. : 1# 966 Chamber Data no. : 29
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6';Humi:51.5%;Press:101.52kPa
Engineer : Frank
EUT : Smart keyboard
Power : DC 1.5V From Battery
M/N : SlimStar 8015
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	121.18	11.34	0.94	10.59	22.87	43.50	20.63	QP
2	268.62	13.10	1.73	16.48	31.31	46.00	14.69	QP
3	319.06	13.97	1.92	19.31	35.20	46.00	10.80	QP
4	333.61	14.64	2.02	18.72	35.38	46.00	10.62	QP
5	425.76	16.82	2.30	7.87	26.99	46.00	19.01	QP
6	714.82	21.70	3.39	5.30	30.39	46.00	15.61	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 30
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:21.6';Humi:51.5%;Press:101.52kPa
Engineer : Frank
EUT : Smart keyboard
Power : DC 1.5V From Battery
M/N : SlimStar 8015
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	159.98	11.30	1.14	11.39	23.83	43.50	19.67	QP
2	242.43	11.45	1.59	17.97	31.01	46.00	14.99	QP
3	408.30	16.36	2.10	12.49	30.95	46.00	15.05	QP
4	455.83	17.42	2.56	11.60	31.58	46.00	14.42	QP
5	532.46	18.88	2.79	10.18	31.85	46.00	14.15	QP
6	711.91	21.70	3.37	5.95	31.02	46.00	14.98	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

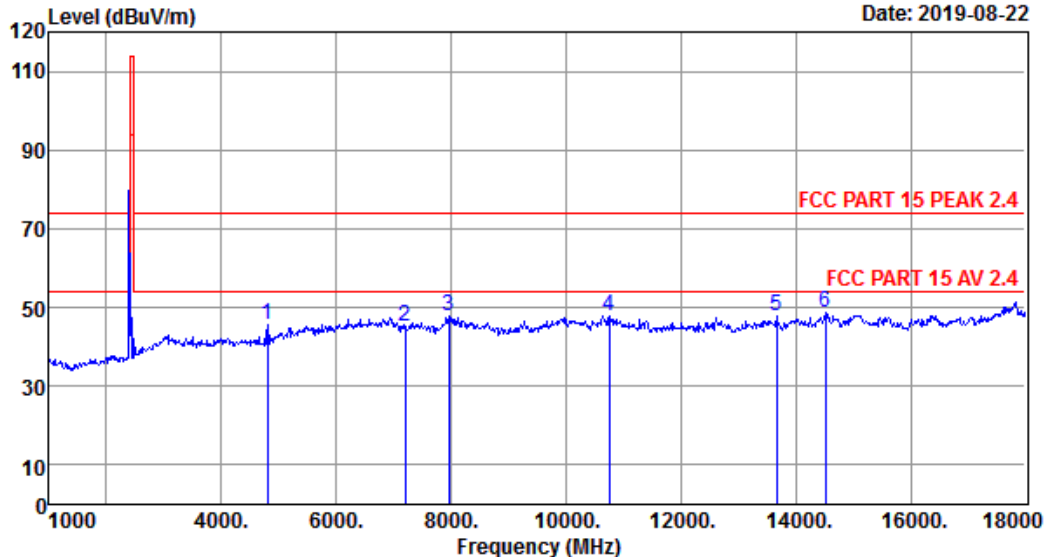
Radiated Emissions Above 1G

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Data: 7 File: \\EMC-966-1\test data\2019\RF\K\KYE\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 7
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	31.12	3.25	34.66	45.96	45.67	74.00	28.33	Peak
2	7206.00	36.21	5.19	34.82	38.54	45.12	74.00	28.88	Peak
3	7953.00	36.89	5.77	34.89	40.15	47.92	74.00	26.08	Peak
4	10758.00	39.66	6.07	34.43	36.55	47.85	74.00	26.15	Peak
5	13665.00	40.52	6.40	34.33	35.32	47.91	74.00	26.09	Peak
6	14515.00	41.00	6.90	34.45	35.12	48.57	74.00	25.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

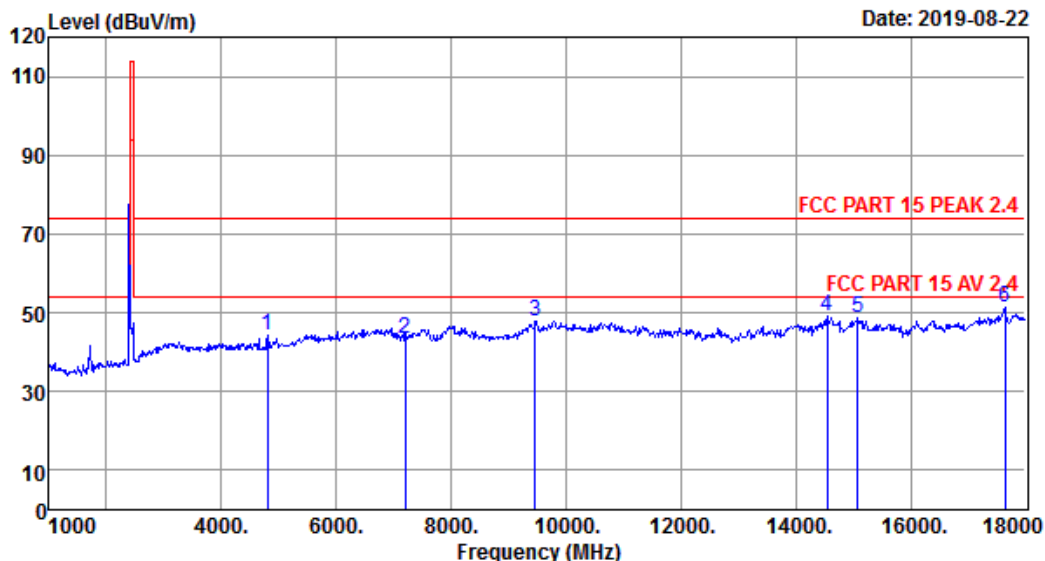
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Data: 8

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\Slim Star 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 8
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.00	31.12	3.25	34.66	44.35	44.06	74.00	29.94	Peak
2	7206.00	36.21	5.19	34.82	36.83	43.41	74.00	30.59	Peak
3	9466.00	37.83	5.49	34.31	38.98	47.99	74.00	26.01	Peak
4	14549.00	40.99	6.89	34.46	35.51	48.93	74.00	25.07	Peak
5	15076.00	40.82	6.76	34.57	35.60	48.61	74.00	25.39	Peak
6	17643.00	46.05	8.01	34.34	31.53	51.25	74.00	22.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

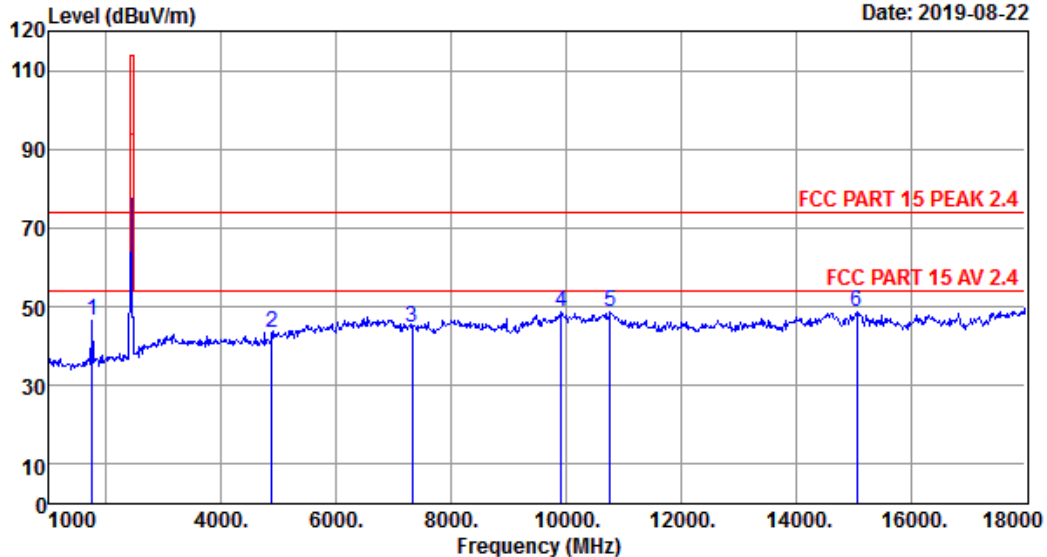
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Data: 9

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 9
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1748.00	25.65	1.21	34.75	54.46	46.57	74.00	27.43	Peak
2	4880.00	31.37	3.31	34.68	43.30	43.30	74.00	30.70	Peak
3	7320.00	36.46	5.22	34.83	37.67	44.52	74.00	29.48	Peak
4	9925.00	38.76	5.84	34.21	38.24	48.63	74.00	25.37	Peak
5	10775.00	39.68	6.07	34.43	37.51	48.83	74.00	25.17	Peak
6	15059.00	40.84	6.77	34.58	35.61	48.64	74.00	25.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

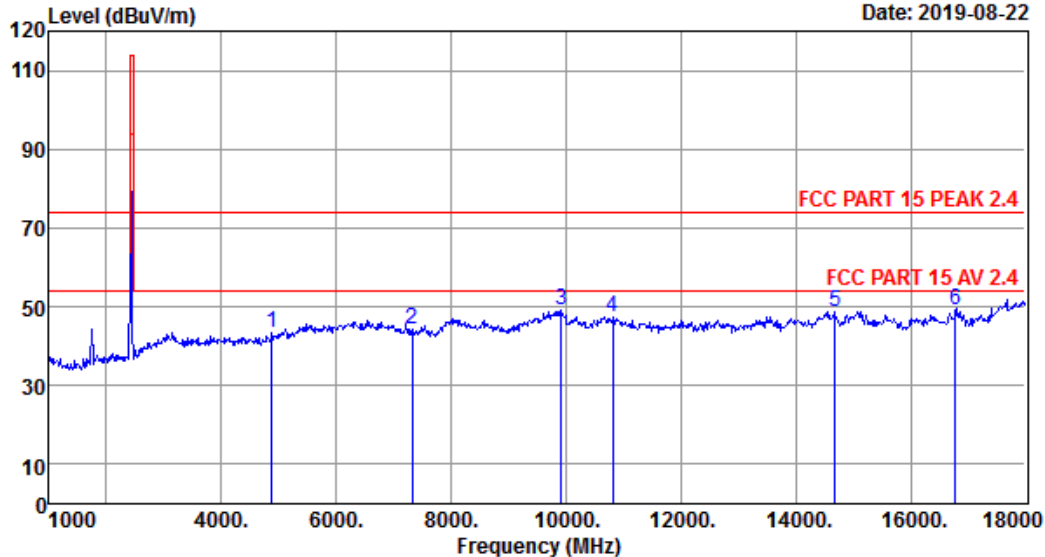
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Data: 10

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 10
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4880.00	31.37	3.31	34.68	43.38	43.38	74.00	30.62	Peak
2	7320.00	36.46	5.22	34.83	37.53	44.38	74.00	29.62	Peak
3	9925.00	38.76	5.84	34.21	38.71	49.10	74.00	24.90	Peak
4	10809.00	39.71	6.08	34.44	36.11	47.46	74.00	26.54	Peak
5	14685.00	40.96	6.87	34.50	35.46	48.79	74.00	25.21	Peak
6	16776.00	40.66	7.29	34.36	35.70	49.29	74.00	24.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

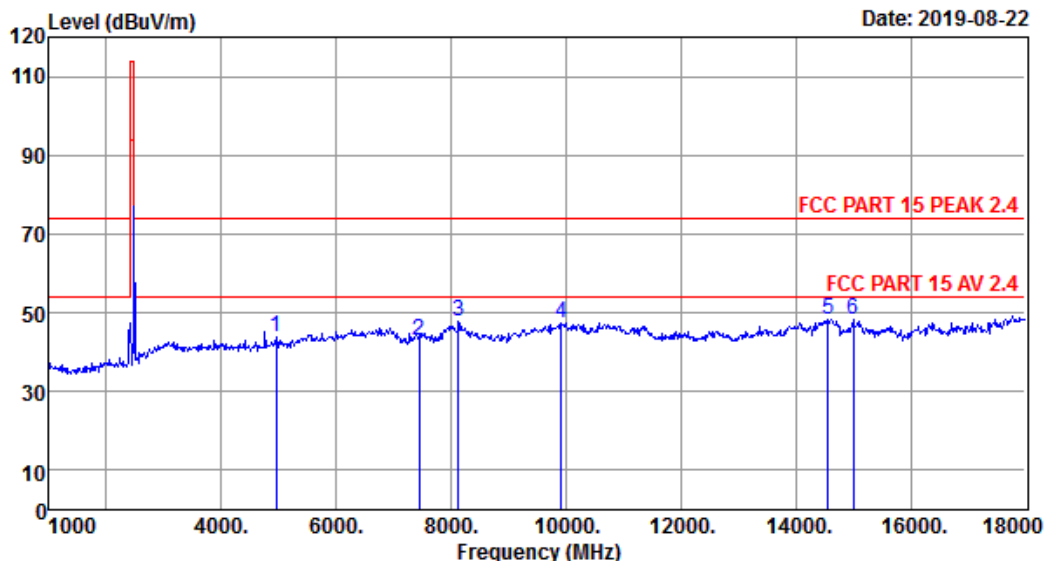
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Data: 11

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



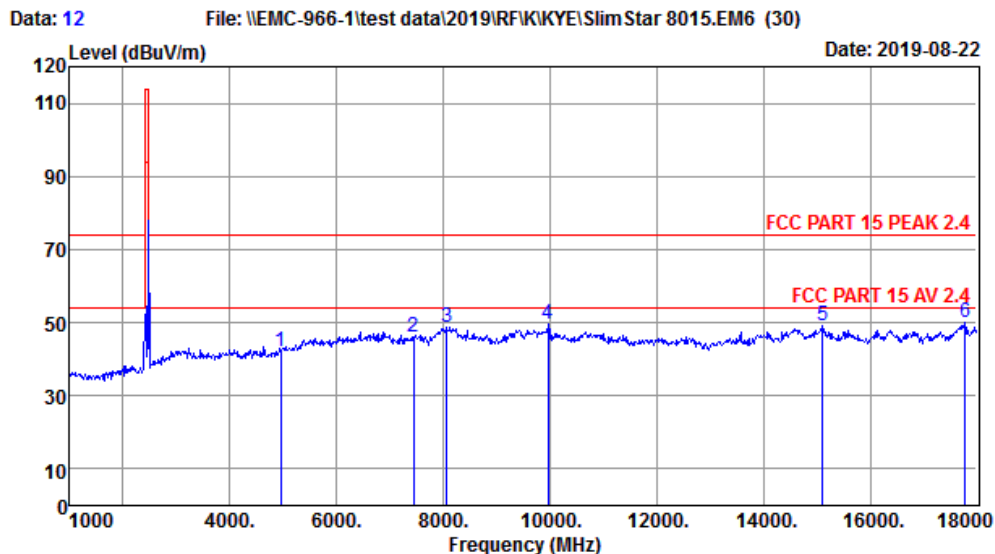
Site no. : 1# 966 Chamber Data no. : 11
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	31.68	3.38	34.69	43.55	43.92	74.00	30.08	Peak
2	7440.00	36.70	5.26	34.84	35.76	42.88	74.00	31.12	Peak
3	8123.00	36.90	5.67	34.84	40.27	48.00	74.00	26.00	Peak
4	9925.00	38.76	5.84	34.21	37.05	47.44	74.00	26.56	Peak
5	14566.00	40.99	6.89	34.47	34.85	48.26	74.00	25.74	Peak
6	15008.00	40.90	6.81	34.60	34.97	48.08	74.00	25.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 12
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4960.00	31.68	3.38	34.69	41.81	42.18	74.00	31.82	Peak
2	7440.00	36.70	5.26	34.84	39.02	46.14	74.00	27.86	Peak
3	8072.00	36.90	5.73	34.87	41.06	48.82	74.00	25.18	Peak
4	9959.00	38.83	5.86	34.21	38.90	49.38	74.00	24.62	Peak
5	15110.00	40.79	6.73	34.56	36.03	48.99	74.00	25.01	Peak
6	17779.00	47.14	8.10	34.32	29.24	50.16	74.00	23.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

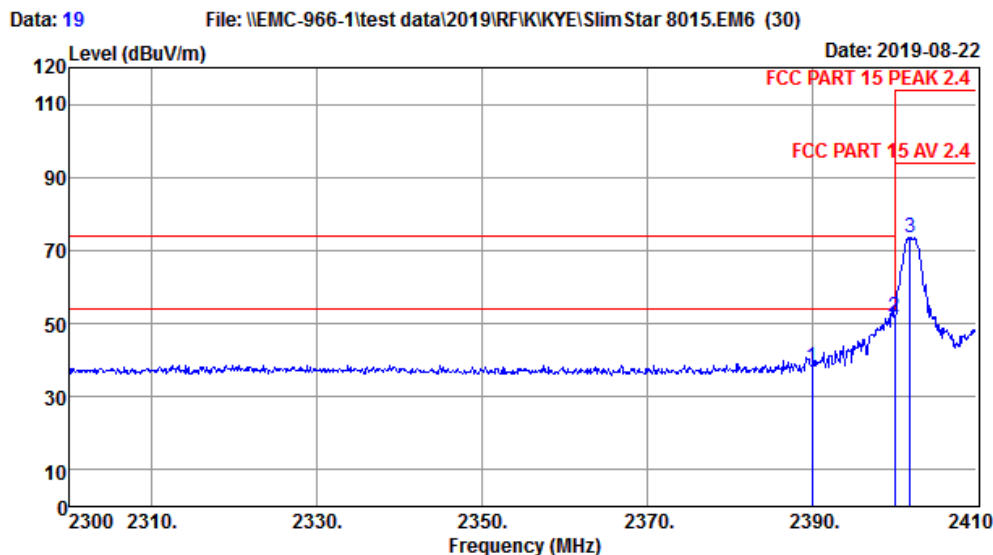
Note:

1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Radiated Band Edge

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 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.26	1.45	34.64	43.95	38.02	74.00	35.98	Peak
2	2400.00	27.26	1.45	34.64	57.74	51.81	74.00	22.19	Peak
3	2401.86	27.26	1.45	34.64	79.34	73.41	114.00	40.59	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

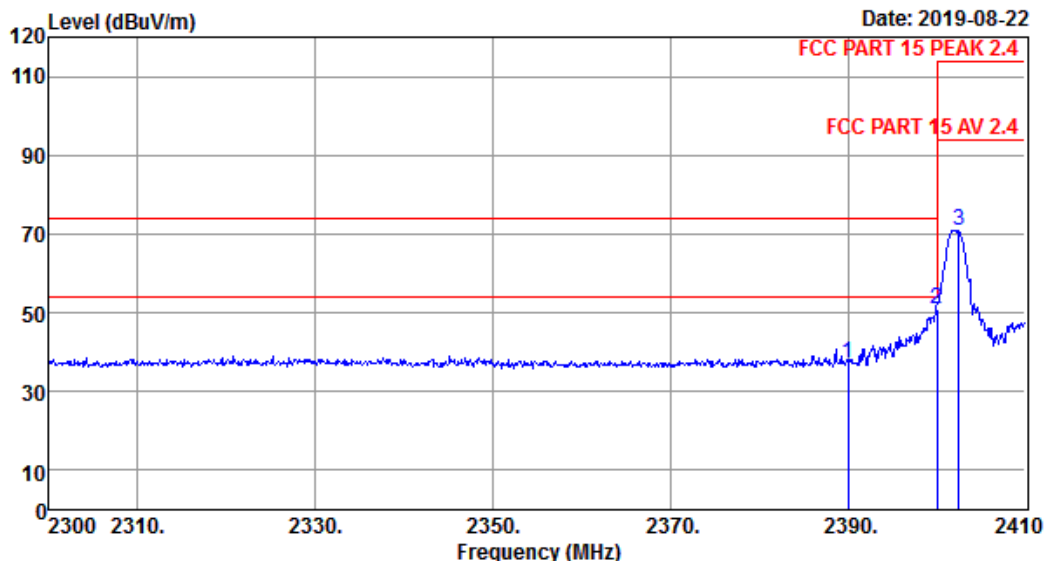
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Data: 20

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 20
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.26	1.45	34.64	43.20	37.27	74.00	36.73	Peak
2	2400.00	27.26	1.45	34.64	56.76	50.83	74.00	23.17	Peak
3	2402.52	27.28	1.46	34.64	76.74	70.84	114.00	43.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

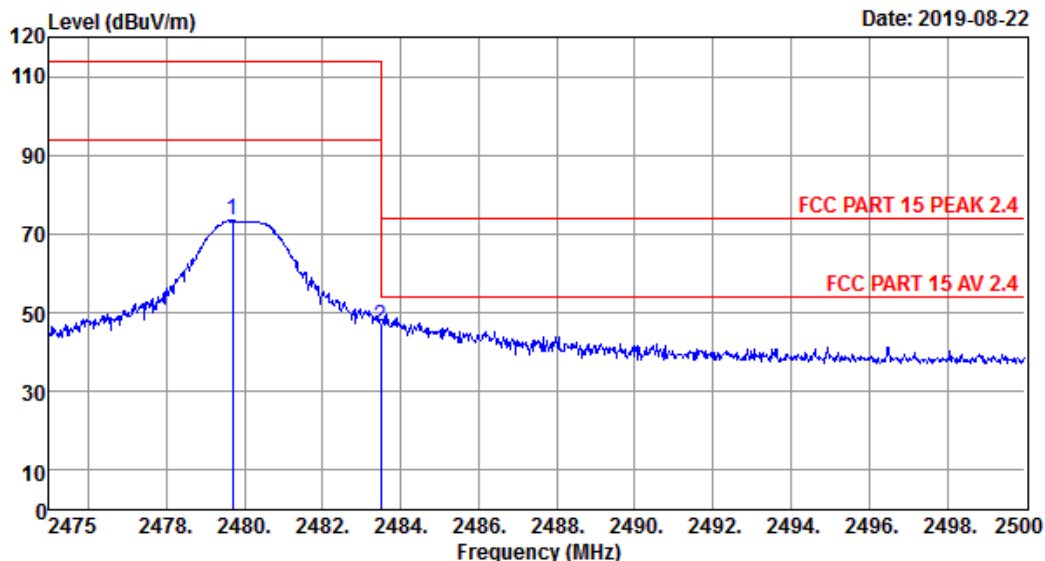
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Data: 21

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 21
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.70	27.38	1.48	34.61	79.12	73.37	114.00	40.63	Peak
2	2483.50	27.38	1.48	34.61	52.40	46.65	74.00	27.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

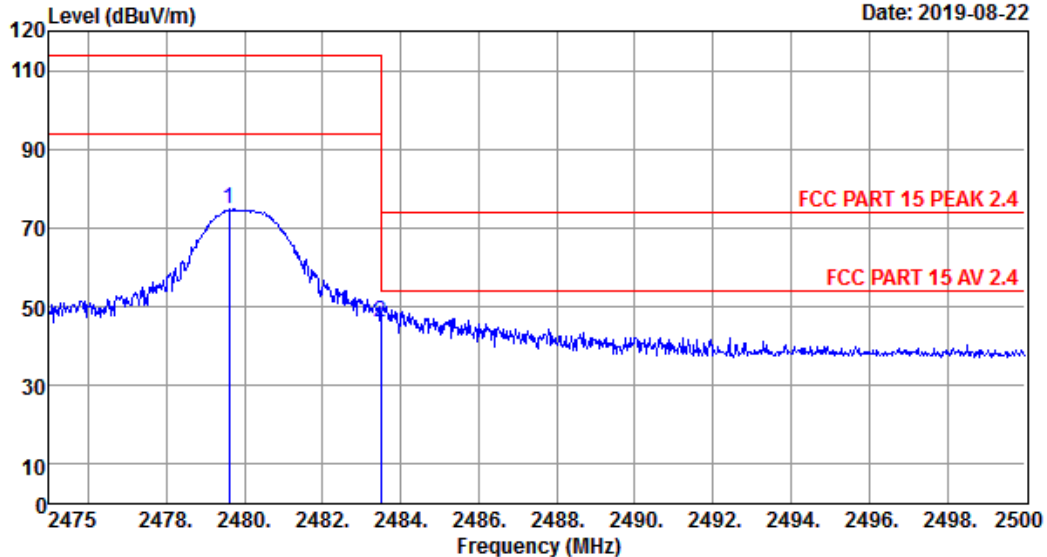
EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878

Data: 22

File: \\EMC-966-1\\test data\\2019\\RF\\K\\KYE\\SlimStar 8015.EM6 (30)

Date: 2019-08-22



Site no. : 1# 966 Chamber Data no. : 22
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 PEAK 2.4
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa
 Engineer : Seven
 EUT : Smart keyboard
 Power : DC 1.5V
 M/N : SlimStar 8015
 Test Mode : TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.60	27.38	1.48	34.61	80.52	74.77	114.00	39.23	Peak
2	2483.50	27.38	1.48	34.61	51.97	46.22	74.00	27.78	Peak

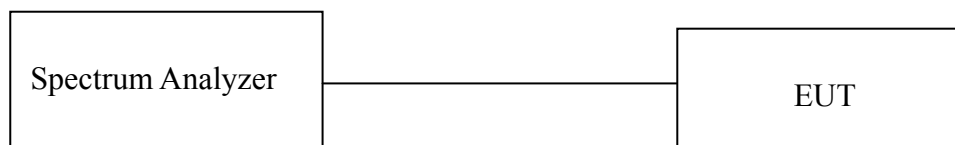
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

5. 20dB BANDWIDTH

5.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1%~5% OBW
VBW	3×RBW
Span	two times and five times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

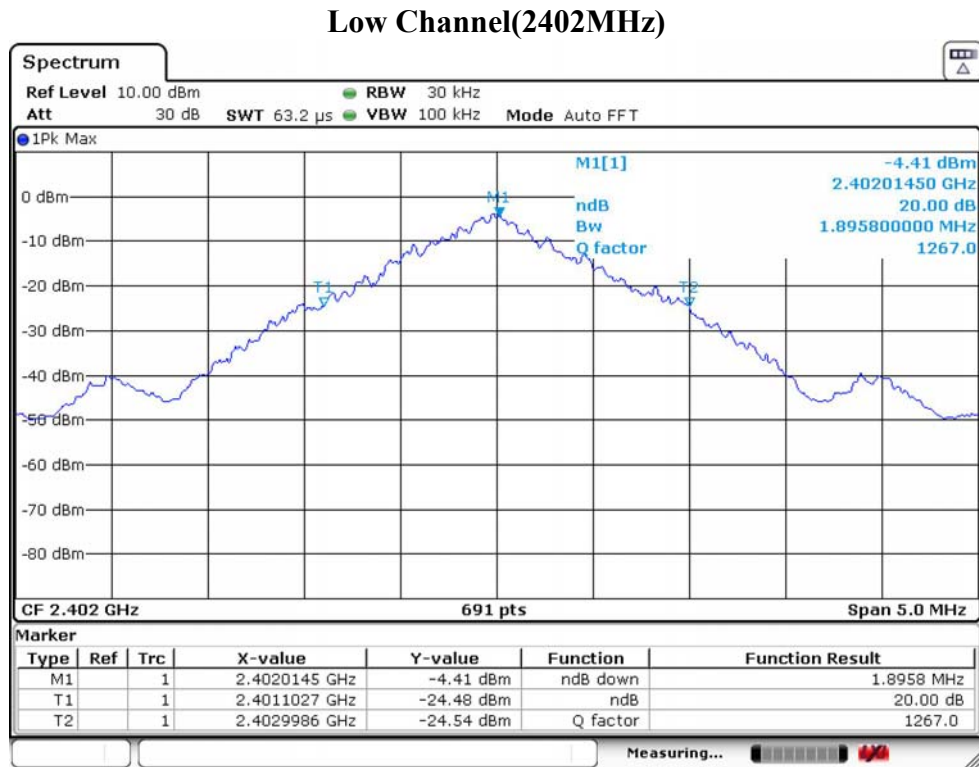
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

5.5. Test Condition

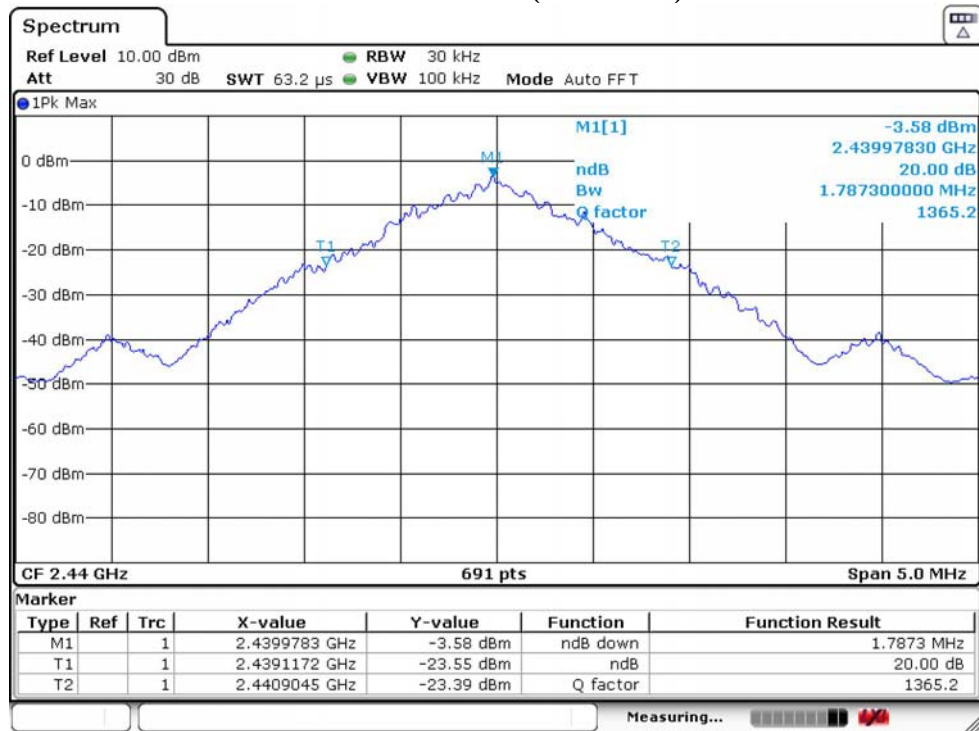
Temperature	25℃	Relative Humidity	55%	Test Voltage	DC 1.5V
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5.6. Test Result

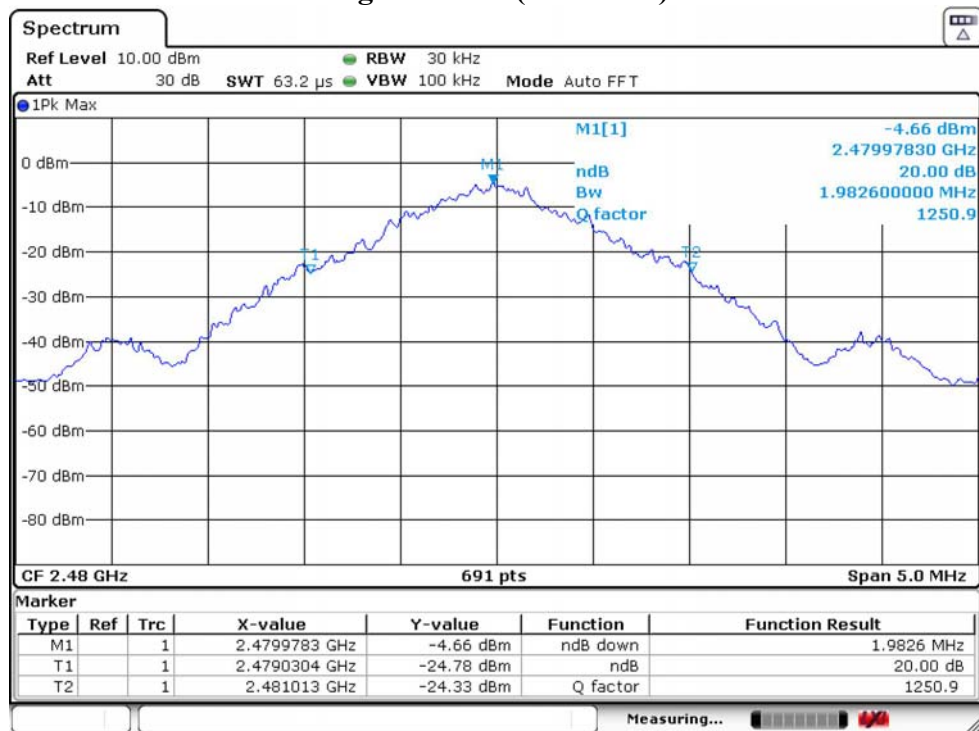
Test Frequency (MHz)	20dB Bandwidth (MHz)	Result
2402	1.896	Pass
2440	1.787	Pass
2480	1.983	Pass



Middle Channel(2440MHz)



High Channel(2480MHz)



6. ANTENNA REQUIREMENTS

6.1. Limit

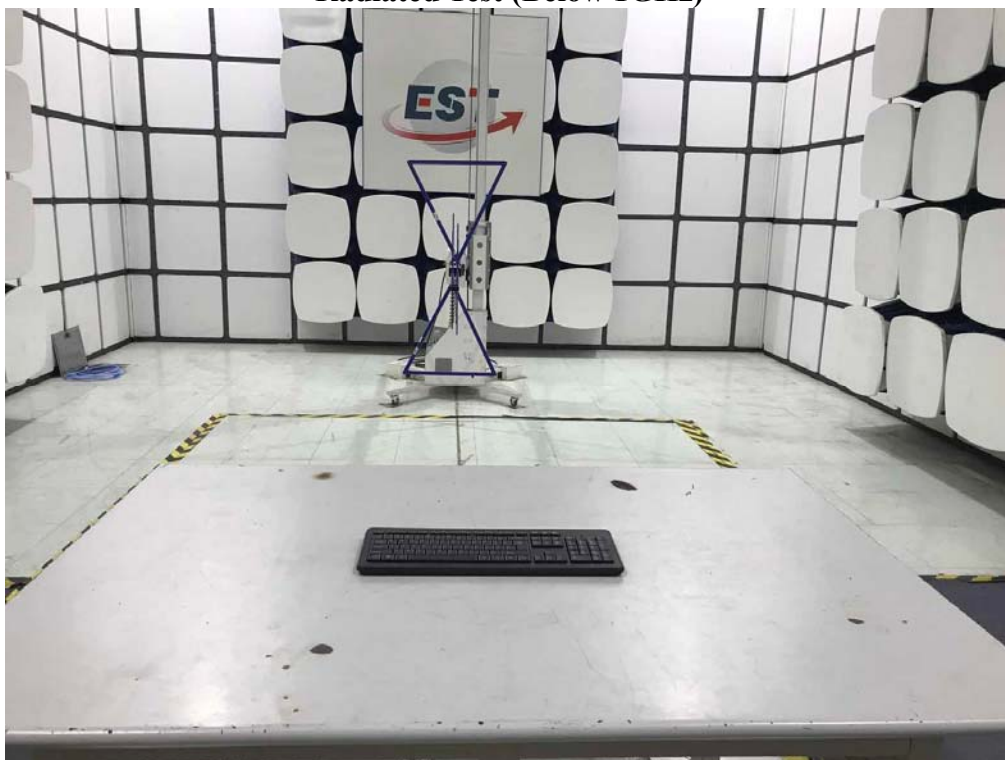
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

6.2. Test Result

The antennas used for this product is internal antenna ,so compliance with antenna requirements.
(Please refer to the EUT photo for details)

7. TEST SETUP PHOTO

Radiated Test (Below 1GHz)

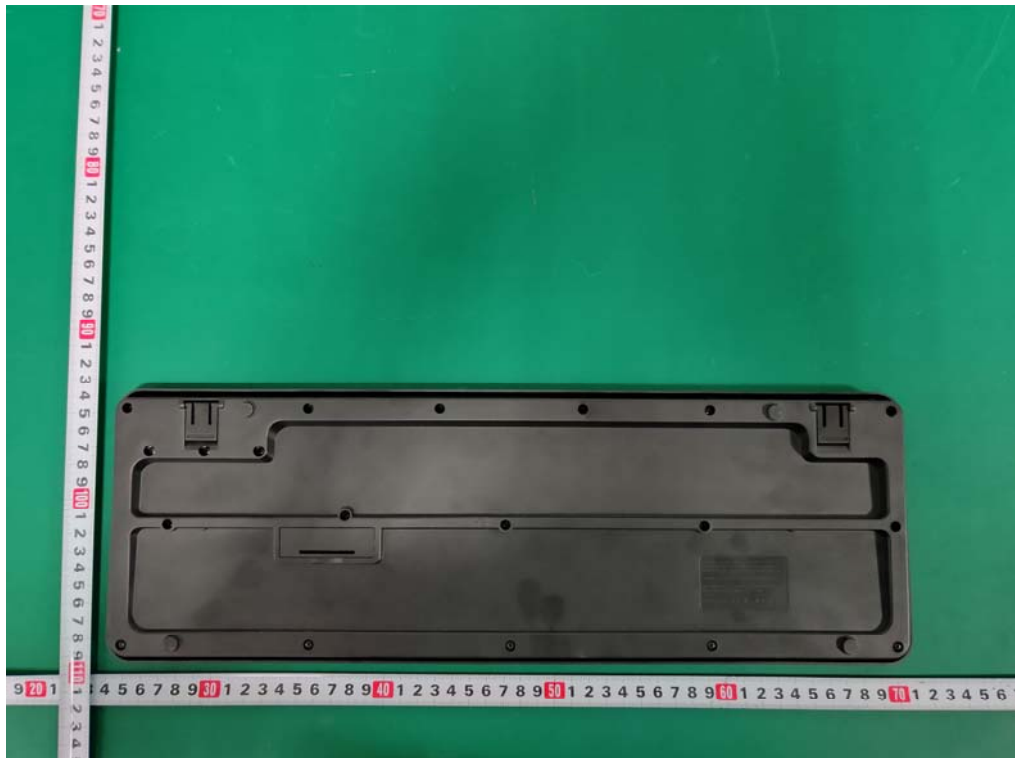


Radiated Test (Above 1GHz)



8. EUT PHOTO

External Photos M/N: SlimStar 8015



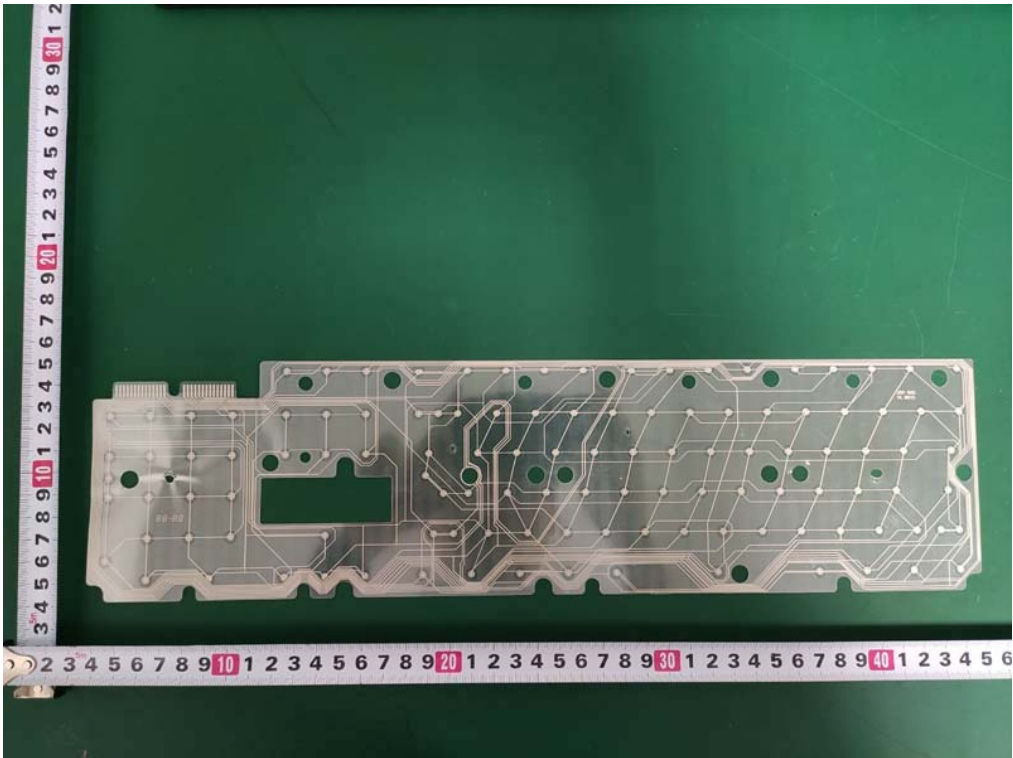
External Photos
M/N: SlimStar 8015



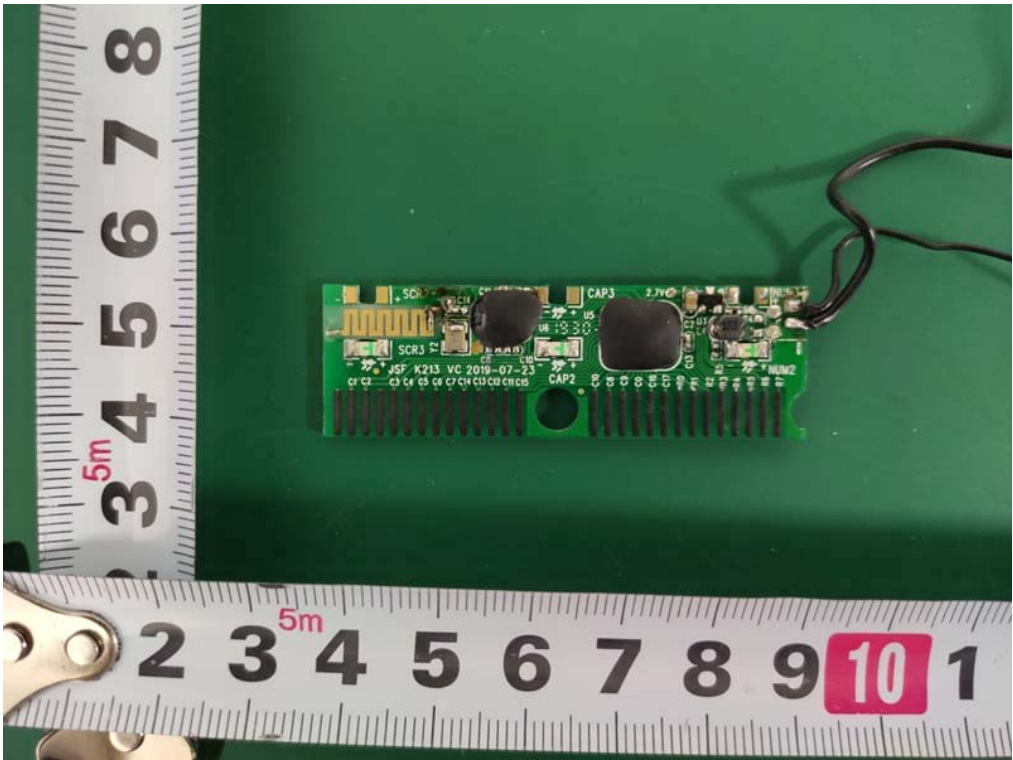
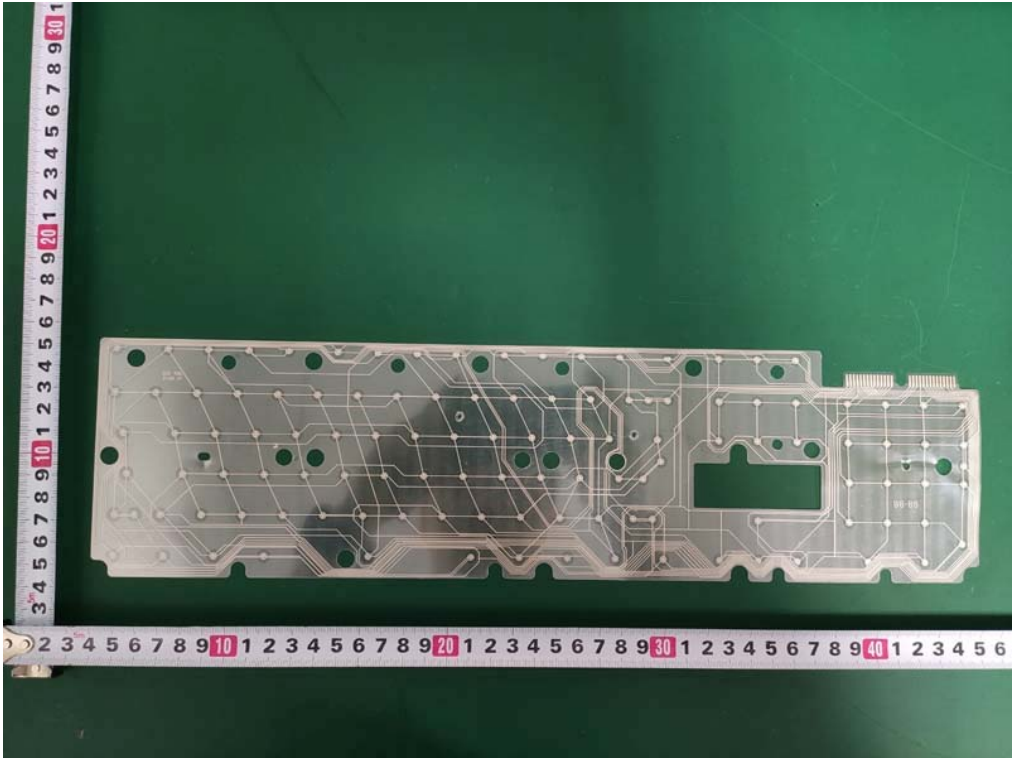
External Photos
M/N: SlimStar 8015



Internal Photos
M/N: SlimStar 8015



Internal Photos
M/N: SlimStar 8015



Internal Photos
M/N: SlimStar 8015

