

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC145925 1 of 91 Page:

FCC Radio Test Report FCC ID: 2AGBA-THE-EGG

Original Grant

Report No. TB-FCC145925

Wasson Technology CO., LTD.(BVI) **Applicant**

Equipment Under Test (EUT)

EUT Name The Egg

E1 Model No.

Series Model No. N/A

Brand Name N/A

Receipt Date 2015-10-09

Test Date 2015-10-12 to 2015-11-05

Issue Date 2015-11-06

Standards FCC Part 15: 2015, Subpart C(15.247)

Test Method ANSI C63.10:2013

Conclusions PASS

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer

Approved& Authorized

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0

Tel: +86 75526509301



Contents

COI	NTENTS	2
1.	GENERAL INFORMATION ABOUT EUT	4
	1.1 Client Information	4
	1.2 General Description of EUT (Equipment Under Test)	
	1.3 Block Diagram Showing the Configuration of System Tested	
	1.4 Description of Support Units	6
	1.5 Description of Test Mode	6
	1.6 Description of Test Software Setting	7
	1.7 Measurement Uncertainty	7
	1.8 Test Facility	
2.	TEST SUMMARY	9
3.	TEST EQUIPMENT	10
4.	CONDUCTED EMISSION TEST	11
	4.1 Test Standard and Limit	11
	4.2 Test Setup	
	4.3 Test Procedure	
	4.4 EUT Operating Mode	
	4.5 Test Data	
5.	RADIATED EMISSION TEST	17
	5.1 Test Standard and Limit	
	5.2 Test Setup	
	5.3 Test Procedure	
	5.4 EUT Operating Condition	
6.	RESTRICTED BANDS REQUIREMENT	36
	6.1 Test Standard and Limit	
	6.2 Test Setup	
	6.3 Test Procedure	
	6.4 EUT Operating Condition	37
	6.4 Test Data	37
7.	NUMBER OF HOPPING CHANNEL	50
	7.1 Test Standard and Limit	
	7.2 Test Setup	
	7.3 Test Procedure	
	7.4 EUT Operating Condition	50
	7.5 Test Data	
8.	AVERAGE TIME OF OCCUPANCY	52
6	8.1 Test Standard and Limit	
	8.2 Test Setup	
	8.3 Test Procedure	



Page: 3 of 91

8.4 EUT Operating Condition	52
CHANNEL SEPARATION AND BANDWIDTH TEST	71
9.1 Test Standard and Limit	71
PEAK OUTPUT POWER TEST	84
10.1 Test Standard and Limit	84
10.2 Test Setup	84
10.3 Test Procedure	84
10.4 EUT Operating Condition	84
10.5 Test Data	85
	8.4 EUT Operating Condition 8.5 Test Data CHANNEL SEPARATION AND BANDWIDTH TEST 9.1 Test Standard and Limit. 9.2 Test Setup. 9.3 Test Procedure. 9.4 EUT Operating Condition 9.5 Test Data. PEAK OUTPUT POWER TEST. 10.1 Test Standard and Limit. 10.2 Test Setup. 10.3 Test Procedure. 10.4 EUT Operating Condition 10.5 Test Data. ANTENNA REQUIREMENT. 11.1 Standard Requirement. 11.2 Antenna Connected Construction.



Page: 4 of 91

1. General Information about EUT

1.1 Client Information

Applicant: Wasson Technology CO., LTD.(BVI)

Address: 1404-2, Block B, Building 3, LongGang Tian'an Digital Park,

LongGang District, ShenZhen, GuangDong province, P.R.China

Manufacturer : Wasson Technology CO., LTD.(BVI)

Address: 1404-2, Block B, Building 3, LongGang Tian'an Digital Park,

LongGang District, ShenZhen, GuangDong province, P.R.China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	The Egg	
Models No.):	E1	
Model Difference		N/A	
		Operation Frequency: Bluetooth:2402~2480MHz WIFI: 2412~2462 MHz ₍₂₎ BLE: 2402MHz~2480MHz	(2)
Product		Number of Channel:	Bluetooth:79 Channels see note (2)
Description		Max Peak Output Power:	π /4-DQPSK:4.771 dBm (Conducted Power)
		Antenna Gain:	1.24 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC power supplied by AC/ DC Voltage supplied from	DC Adapter.
Power Rating	wer Rating : Input: AC 100~240V 50/60Hz 0.5A Output: 5V/2A DC 3.7V from 1800mAh Li-ion battery		0.5A
Connecting I/O Port(S)		Please refer to the User's	Manual

Note:

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for BLE and WIFI function, and recorded in the separate test report.
- (2) This Test Report is FCC Part 15.247 for Bluetooth, and test procedure in accordance with Public Notice: DA 00-705.
- (3) Channel List:



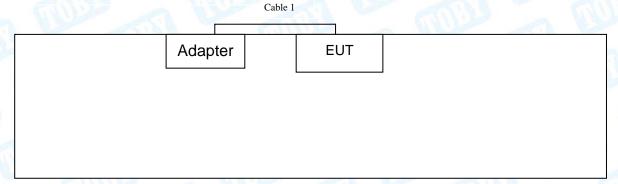
Page: 5 of 91

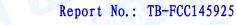
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454) _ (W.
26	2428	53	2455		

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

USB Charging with TX Mode







Page: 6 of 91

1.4 Description of Support Units

	Eq	uipment Information	on	
Name	Model	FCC ID/DOC	Manufacturer	Used "√"
Notebook	T60P	DOC	LENOVO	TIMUD .
LCD Monitor	E170Sc	DOC	DELL	COURS OF THE PARTY
PC	OPTIPLEX380	DOC	DELL	
Keyboard	L100	DOC	DELL	
Mouse	M-UARDEL7	DOC	DELL	TILLE
		Cable Information		
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	NO	NO	1.0M	Accessory
			2007	A PU

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test			
Final Test Mode	Description		
Mode 1	AC Charging with TX GFSK Mode		

For Radiated Test				
Final Test Mode Description				
Mode 1	AC Charging with TX GFSK Mode			
Mode 2	TX Mode(GFSK) Channel 00/39/78			
Mode 3	TX Mode(π /4-DQPSK) Channel 00/39/78			
Mode 4	TX Mode(8-DPSK) Channel 00/39/78			
Mode 5	Hopping Mode(GFSK)			
Mode 6	Hopping Mode(π /4-DQPSK)			
Mode 7	Hopping Mode(8-DPSK)			



Page: 7 of 91

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate. We have pretested all the test mode above.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

TX Mode: GFSK (1 Mbps)
TX Mode: π /4-DQPSK (2 Mbps)
TX Mode: 8-DPSK (3 Mbps)

(2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane as the normal use. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Bluetooth mode.

Test Software Version	MP Tool Test.exe		0.00
Frequency	2402 MHz	2441MHz	2480 MHz
GFSK	DEF	DEF	DEF
π /4-DQPSK	DEF	DEF	DEF
8-DPSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement y \pm 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 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
annie de la constante de la co	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Effilssion	9kHz to 30 MHz	±4.60 db
Redicted Emission	Level Accuracy:	14.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4.20 dB
Radiated Emission	Above 1000MHz	±4.20 UD



Page: 8 of 91

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.



Page: 9 of 91

2. Test Summary

	FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1						
Standard Section		T	1 1				
FCC	IC	Test Item	Judgment	Remark			
15.203		Antenna Requirement	PASS	N/A			
15.207	RSS-GEN 7.2.2	Conducted Emission	PASS	N/A			
15.205	RSS-Gen 7.2.3	Restricted Bands	PASS	N/A			
15.247(a)(1)	RSS 247 5.1 (2)	Hopping Channel Separation	PASS	N/A			
15.247(a)(1)	RSS 247 5.1 (4)	Dwell Time	PASS	N/A			
15.247(b)(1)	RSS 247 5.4 (2)	Peak Output Power	PASS	N/A			
15.247(b)(1)	RSS 247 5.1 (4)	Number of Hopping Frequency	PASS	N/A			
15.247(c)	RSS 247 5.5	Radiated Spurious Emission	PASS	N/A			
15.247(a)	RSS 247 5.1 (1)	99% Occupied Bandwidth & 20dB Bandwidth	PASS	99%OBW GFSK:832.1399kHz π/4-DQPSK: 1147.10kHz 8-DPSK: 1127.20kHz			

Note: N/A is an abbreviation for Not Applicable.



Page: 10 of 91

3. Test Equipment

Conducte	d Emission Te	est			
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Date
- Tadiation	Emission Tes				Cal. Due
Spectrum	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
Analyzer	Agiletit	E4407B	101145100450	Aug. 29, 2015	Aug. 20, 2010
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A



Page: 11 of 91

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

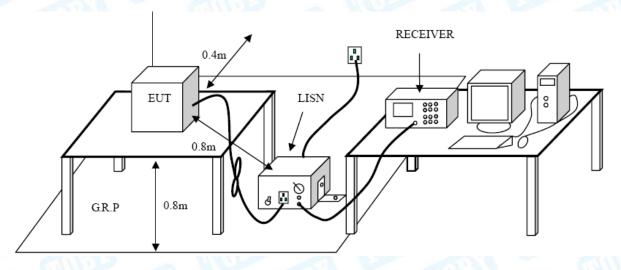
Conducted Emission Test Limit

Fraguency	Maximum RF Lin	e Voltage (dBμV)
Frequency	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



Report No.: TB-FCC145925 Page: 12 of 91

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

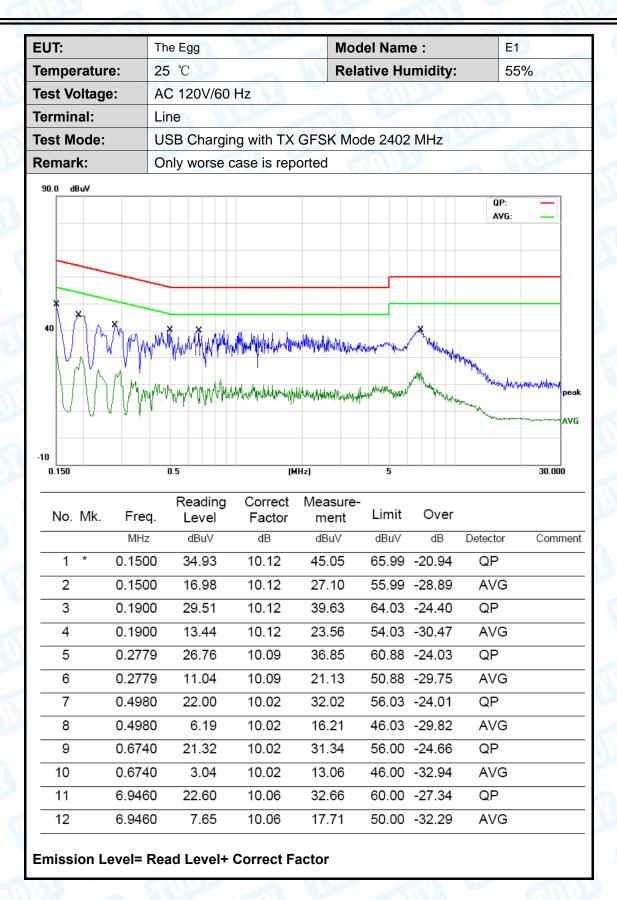
Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

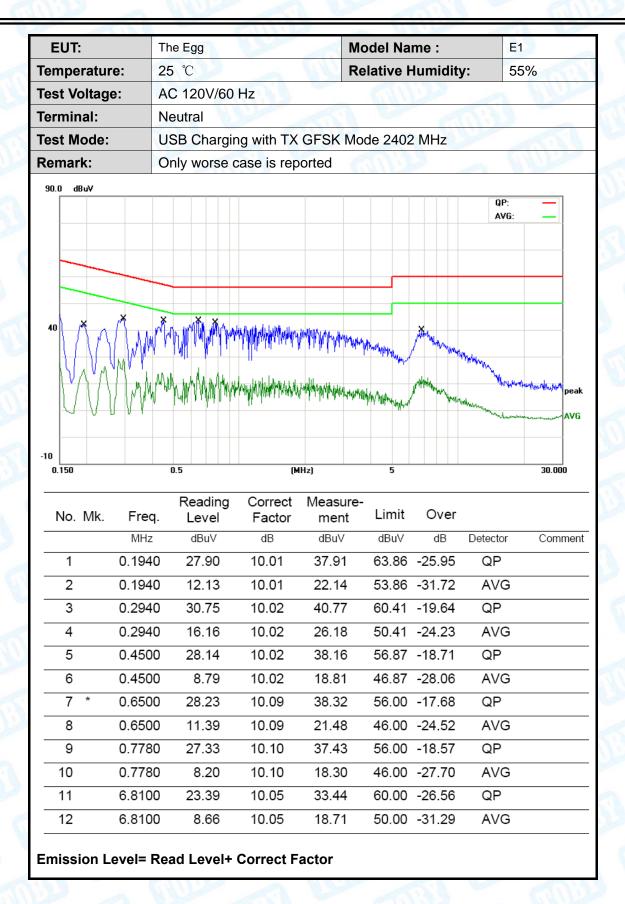


Page: 13 of 91





Page: 14 of 91





Page: 15 of 91

EUT:	The	e Egg		Mod	del Nam	e:	E1	1
Temperature:	25	$^{\circ}$ C		Rela	ative Hu	midity:	55	5%
Test Voltage:	AC	240V/60	Hz		67(1)	17.0		MAIN
Terminal:	Lir	ne			The second		7130	
Test Mode: USB Charging with TX GFSK Mode 2402 MHz								
Remark:	Or	nly worse o	case is repo	orted	M)	3	- N	Milian
90.0 dBuV								
							QP: AVG:	
×								
40		× ×.				X		
- 11 M M	Mull	YYPYYYYYY	Na amay Ay ta Ar Ay Ay Affiliar	Palaphysis	Mayerman	Mary Mary		
[n][n]	ر بهامال ا		I N III I I I I I I I I I I I I I I I I			, PIV	hande bulleyer browners	
	. 1		I rul s.c			Mary .	- Alphania	
1 / 1 / 1/1/	M. 1947	ԱՌՈՒՈՒՈՒՄ ԱՄՈՒՈՐԱՄԻ ԱՌՈՒՈՒՈՐԱՄԻ ՄԵՐ ԱՄԻՍՈՐԱՄԻ	Plac i is barderi Assiana Palika i Istori	المنتمان والمسابلة	all hard better the same	" """ (A.)		AND THE STREET STREET
MM	Minim	whathy Alkhur	Par _{tart} aphores in the control of the state	Mhr. M. Marilland Maria.	All to all the old the ord points	, what week	makrey	pea
VW	MANA	~\\~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/bx ₁₄₄ 4447.706414464146	Markhyphrumangra.	gilf-adidan (14th-caphana)	, many by	3 and residence where we were	AVG
-10	MMM	~\r\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Plac _{ale} (1 ₁ 14-1 ₁ 15-1 ₁ 16-1 ₁ 16)	Village Adapter Albert Special	giller of the office of the confluence of	A MANAGEMENT	3 Carle Miller March Company	
-10 0.150).5	(MH	z)	S	A MANAGER	Make a de la constitución de la	
0.150		n.5		z) Measure-			make of house and a second	AVG
0.150	Freq.					Over	of the state of th	AVG
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over dB	Detector	AVG
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	and the second	30.000
0.150 No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit dBuV 64.39	Over dB	Detector	30.000
0.150 No. Mk. 1 0. 2 0.	Freq. MHz .1819	Reading Level dBuV 29.33	Correct Factor dB	Measure- ment dBuV 39.45	Limit dBuV 64.39 54.39	Over dB -24.94	Detector	30.000
0.150 No. Mk. 1 0. 2 0. 3 0.	Freq. MHz .1819	Reading Level dBuV 29.33 9.62	Correct Factor dB 10.12	Measure- ment dBuV 39.45	Limit dBuV 64.39 54.39 62.16	Over dB -24.94 -34.65	Detector QP AVG	30.000
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0.	Freq. MHz .1819 .1819	Reading Level dBuV 29.33 9.62 24.83	Correct Factor dB 10.12 10.12 10.11	Measure- ment dBuV 39.45 19.74 34.94	Limit dBuV 64.39 54.39 62.16 52.16	Over dB -24.94 -34.65 -27.22	Detector QP AVG QP	30.000
No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0.	Freq. MHz .1819 .1819 .2380	Reading Level dBuV 29.33 9.62 24.83 9.22	Correct Factor dB 10.12 10.12 10.11 10.11	Measure- ment dBuV 39.45 19.74 34.94 19.33	Limit dBuV 64.39 54.39 62.16 52.16 56.00	Over dB -24.94 -34.65 -27.22 -32.83	Detector QP AVG QP AVG	30.000
No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0.	Freq. MHz .1819 .1819 .2380 .2380	Reading Level dBuV 29.33 9.62 24.83 9.22 23.82	Correct Factor dB 10.12 10.12 10.11 10.11 10.02	Measure- ment dBuV 39.45 19.74 34.94 19.33 33.84	Limit dBuV 64.39 54.39 62.16 52.16 56.00 46.00	Over dB -24.94 -34.65 -27.22 -32.83 -22.16	Detector QP AVG QP AVG	30.000
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 * 0.	Freq. MHz .1819 .1819 .2380 .2380 .5580	Reading Level dBuV 29.33 9.62 24.83 9.22 23.82 7.64	Correct Factor dB 10.12 10.12 10.11 10.11 10.02 10.02	Measure- ment dBuV 39.45 19.74 34.94 19.33 33.84 17.66	Limit dBuV 64.39 54.39 62.16 52.16 56.00 46.00	Over dB -24.94 -34.65 -27.22 -32.83 -22.16 -28.34	Detector QP AVG QP AVG QP AVG	30.000
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 * 0. 8 0.	Freq. MHz .1819 .1819 .2380 .2380 .5580 .9180	Reading Level dBuV 29.33 9.62 24.83 9.22 23.82 7.64 24.64	Correct Factor dB 10.12 10.12 10.11 10.11 10.02 10.02 10.12	Measure- ment dBuV 39.45 19.74 34.94 19.33 33.84 17.66 34.76	Limit dBuV 64.39 54.39 62.16 52.16 56.00 46.00 46.00	Over dB -24.94 -34.65 -27.22 -32.83 -22.16 -28.34 -21.24	Detector QP AVG QP AVG QP AVG	30.000
No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 * 0. 8 0. 9 1.	Freq. MHz .1819 .1819 .2380 .2380 .5580 .5580 .9180	Reading Level dBuV 29.33 9.62 24.83 9.22 23.82 7.64 24.64 7.23	Correct Factor dB 10.12 10.12 10.11 10.11 10.02 10.02 10.12 10.12	Measure- ment dBuV 39.45 19.74 34.94 19.33 33.84 17.66 34.76 17.35	Limit dBuV 64.39 54.39 62.16 52.16 56.00 46.00 56.00 56.00	Over dB -24.94 -34.65 -27.22 -32.83 -22.16 -28.34 -21.24 -28.65	Detector QP AVG QP AVG QP AVG AVG	30.000
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 0. 6 0. 7 * 0. 8 0. 9 1. 10 1.	Freq. MHz .1819 .2380 .2380 .5580 .5580 .9180 .9180	Reading Level dBuV 29.33 9.62 24.83 9.22 23.82 7.64 24.64 7.23 19.68	Correct Factor dB 10.12 10.12 10.11 10.11 10.02 10.02 10.12 10.12 10.12 10.08	Measure- ment dBuV 39.45 19.74 34.94 19.33 33.84 17.66 34.76 17.35 29.76	Limit dBuV 64.39 54.39 62.16 52.16 56.00 46.00 56.00 46.00	Over dB -24.94 -34.65 -27.22 -32.83 -22.16 -28.34 -21.24 -28.65 -26.24	Detector QP AVG QP AVG QP AVG QP AVG QP	30.000



Report No.: TB-FCC145925
Page: 16 of 91

	The Egg	A. B.	Mod	del Name :	E1	9		
Temperature:	25 ℃		Rela	ative Humidity:	55	5%		
Test Voltage:	AC 240V/60	AC 240V/60 Hz						
Terminal:	Neutral		A Person		11:30			
Test Mode:	USB Chargi	ng with TX (GFSK Mo	ode 2402 MHz				
Remark:	Only worse	case is repo	orted	111:30		Miles		
40 dBuV			P ^{OL} ANI AND	MANAGEMENT AND	QP: AVG:	peal		
-10 0.150	0.5	(МІ	12)	5		30.000		
0.150	Reading	Correct	Measure-			30.000		
0.150	Reading I. Level				Detector			
No. Mk. Freq	Reading J. Level	Correct Factor	Measure- ment	Limit Over	Detector QP	30.000		
No. Mk. Freq	Reading Level dBuV 0 32.30	Correct Factor	Measure- ment	Limit Over				
No. Mk. Freq MHz 1 * 0.562	Reading Level dBuV 0 32.30 0 13.11	Correct Factor dB 10.02	Measure- ment dBuV 42.32	Limit Over dBuV dB 56.00 -13.68	QP			
0.150 No. Mk. Frequency MHz 1 * 0.5620 2 0.5620	Reading Level dBuV 0 32.30 0 13.11 0 30.68	Correct Factor dB 10.02	Measure- ment dBuV 42.32 23.13	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87	QP AVG			
0.150 No. Mk. Frequency MHz 1 * 0.562 2 0.562 3 0.890	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42	Correct Factor dB 10.02 10.02	Measure- ment dBuV 42.32 23.13 40.79	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21	QP AVG QP			
No. Mk. Frequency 1 * 0.562 2 0.562 3 0.890 4 0.890	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11	Correct Factor dB 10.02 10.02 10.11	Measure- ment dBuV 42.32 23.13 40.79 22.53	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47	QP AVG QP AVG			
0.150 No. Mk. Frequency MHz 1 * 0.562 2 0.562 3 0.890 4 0.890 5 1.214	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11 0 6.65	Correct Factor dB 10.02 10.02 10.11 10.11	Measure- ment dBuV 42.32 23.13 40.79 22.53 37.25	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47 56.00 -18.75	QP AVG QP AVG QP			
0.150 No. Mk. Frequency MHz 1 * 0.562 2 0.562 3 0.890 4 0.890 5 1.214 6 1.214	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11 0 6.65 0 30.21	Correct Factor dB 10.02 10.02 10.11 10.11 10.14 10.14	Measure- ment dBuV 42.32 23.13 40.79 22.53 37.25 16.79	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47 56.00 -18.75 46.00 -29.21	QP AVG QP AVG QP AVG			
No. Mk. Frequency No. Mk. Frequency No. 562 2 0.562 3 0.890 4 0.890 5 1.214 6 1.214 7 1.694	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11 0 6.65 0 30.21 0 10.76	Correct Factor dB 10.02 10.02 10.11 10.11 10.14 10.14 10.09	Measure- ment dBuV 42.32 23.13 40.79 22.53 37.25 16.79 40.30	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47 56.00 -18.75 46.00 -29.21 56.00 -15.70	QP AVG QP AVG QP AVG QP			
0.150 No. Mk. Frequency MHz 1 * 0.562 2 0.562 3 0.890 4 0.890 5 1.214 6 1.214 7 1.694 8 1.694	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11 0 6.65 0 30.21 0 10.76 0 21.91	Correct Factor dB 10.02 10.02 10.11 10.11 10.14 10.09 10.09	Measure- ment dBuV 42.32 23.13 40.79 22.53 37.25 16.79 40.30 20.85	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47 56.00 -18.75 46.00 -29.21 56.00 -15.70 46.00 -25.15	QP AVG QP AVG QP AVG QP AVG			
No. Mk. Frequency No. Mk. Frequency No. Mk. Frequency No. 5624 2 0.5624 3 0.8904 4 0.8904 5 1.2144 6 1.2144 7 1.6944 8 1.6944 9 2.7066	Reading Level dBuV 0 32.30 0 13.11 0 30.68 0 12.42 0 27.11 0 6.65 0 30.21 0 10.76 0 21.91 0 3.75	Correct Factor dB 10.02 10.02 10.11 10.11 10.14 10.09 10.09 10.06	Measure- ment dBuV 42.32 23.13 40.79 22.53 37.25 16.79 40.30 20.85 31.97	Limit Over dBuV dB 56.00 -13.68 46.00 -22.87 56.00 -15.21 46.00 -23.47 56.00 -18.75 46.00 -29.21 56.00 -15.70 46.00 -25.15 56.00 -24.03	QP AVG QP AVG QP AVG QP AVG QP			



Page: 17 of 91

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limit (9 kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/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

Radiated Emission Limit (Above 1000MHz)

Frequency	Class B (dBuV/m)(at 3m)			
(MHz)	Peak	Average		
Above 1000	74	54		

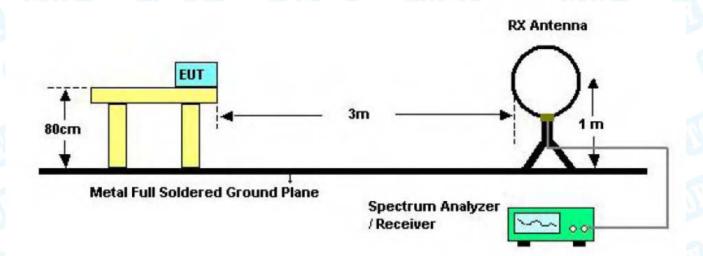
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

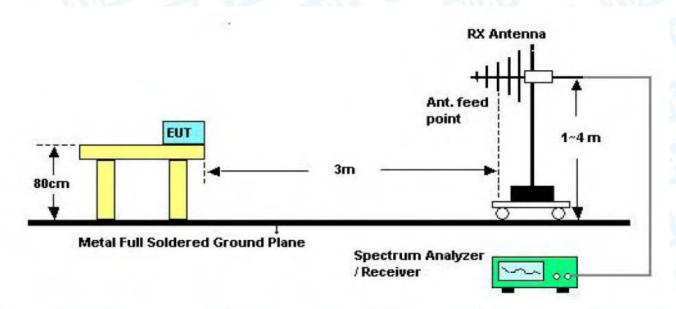


Page: 18 of 91

5.2 Test Setup



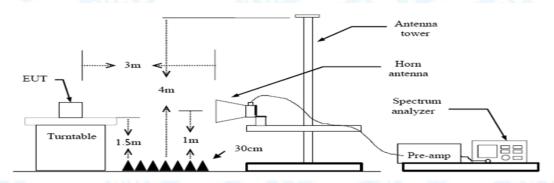
Bellow 30MHz Test Setup



Bellow 1000MHz Test Setup







Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power in TX mode.

5.5 Test Data

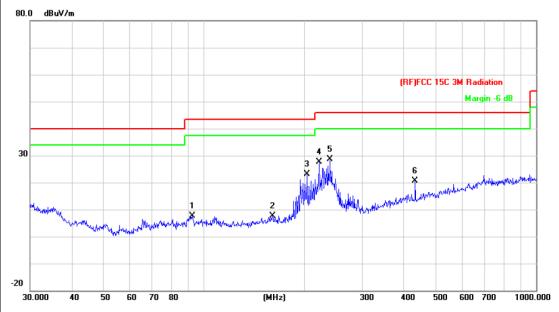
Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 Kz with Peak Detector for Average Values.

Test data please refer the following pages.



Page: 20 of 91

EUT:	The Egg	Model Name :	E1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 HZ		13
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2402MHz		Chire
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		92.1388	30.12	-22.50	7.62	43.50	-35.88	peak
2		160.9088	28.08	-20.57	7.51	43.50	-35.99	peak
3		204.2375	43.36	-20.20	23.16	43.50	-20.34	peak
4		222.1698	46.97	-19.43	27.54	46.00	-18.46	peak
5	*	239.9874	47.29	-18.59	28.70	46.00	-17.30	peak
6		432.5457	33.41	-12.78	20.63	46.00	-25.37	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 21 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	M Comment	33				
Ant. Pol.	Vertical						
Test Mode:	TX GFSK Mode 2402MHz	TX GFSK Mode 2402MHz					
Remark:	Only worse case is reported	Only worse case is reported					



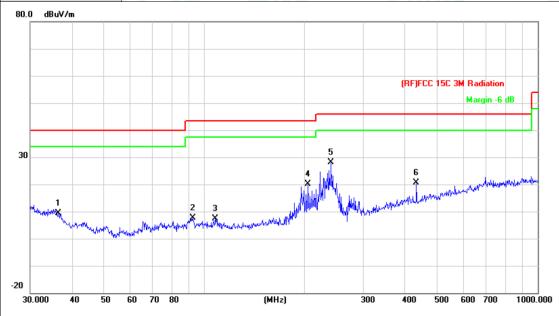
No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		50.7637	45.37	-24.41	20.96	40.00	-19.04	peak
2		81.7831	43.41	-23.18	20.23	40.00	-19.77	peak
3		90.5374	42.46	-22.65	19.81	43.50	-23.69	peak
4		222.1698	47.27	-19.43	27.84	46.00	-18.16	peak
5	*	239.9874	48.44	-18.59	29.85	46.00	-16.15	peak
6		432.5457	33.37	-12.78	20.59	46.00	-25.41	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 22 of 91

The Egg	Model Name :	E1
25 ℃	Relative Humidity:	55%
AC 120V/60 HZ		10
Horizontal		
TX 8-DPSK Mode 2402MHz		DITT.
Only worse case is reported		
	25 °C AC 120V/60 HZ Horizontal TX 8-DPSK Mode 2402MHz	25 °C Relative Humidity: AC 120V/60 HZ Horizontal TX 8-DPSK Mode 2402MHz



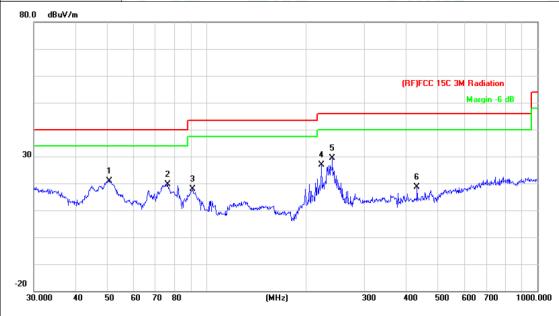
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		36.3813	27.39	-17.91	9.48	40.00	-30.52	peak
2		92.1388	30.12	-22.50	7.62	43.50	-35.88	peak
3		107.8876	29.28	-21.86	7.42	43.50	-36.08	peak
4		204.2375	40.36	-20.20	20.16	43.50	-23.34	peak
5	*	239.9874	46.79	-18.59	28.20	46.00	-17.80	peak
6		432.5457	33.41	-12.78	20.63	46.00	-25.37	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 23 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ		13.9			
Ant. Pol.	Vertical					
Test Mode:	TX 8-DPSK Mode 2402MHz					
Remark:	Only worse case is reported	Contract of the second				



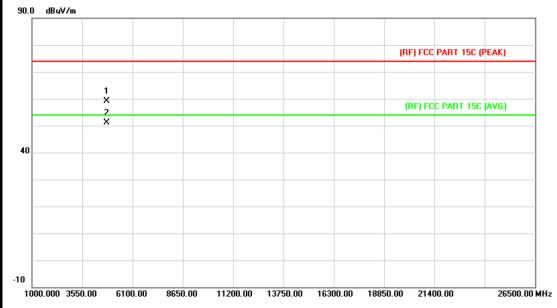
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		50.7637	45.37	-24.41	20.96	40.00	-19.04	peak
2		76.2442	43.07	-23.41	19.66	40.00	-20.34	peak
3		90.5374	40.46	-22.65	17.81	43.50	-25.69	peak
4		222.1698	46.27	-19.43	26.84	46.00	-19.16	peak
5	*	239.9874	47.94	-18.59	29.35	46.00	-16.65	peak
6		432.5457	31.37	-12.78	18.59	46.00	-27.41	peak

^{*:}Maximum data x:Over limit !:over margin



Page: 24 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX GFSK Mode 2402MHz		LITTLE OF			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

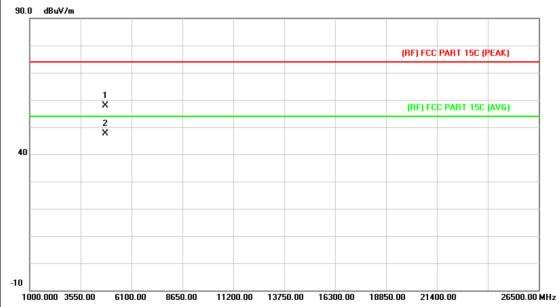


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.187	45.68	13.44	59.12	74.00	-14.88	peak
2	*	4803.458	37.76	13.44	51.20	54.00	-2.80	AVG



Page: 25 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX GFSK Mode 2402MHz		MILL:				
Remark: No report for the emission which more than 10 dB below the prescribed limit.							
00.0 40.94							

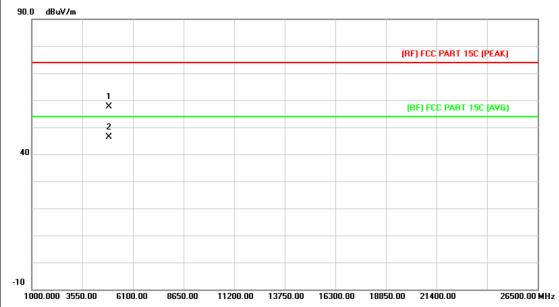


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.177	44.42	13.44	57.86	74.00	-16.14	peak
2	*	4803.477	34.07	13.44	47.51	54.00	-6.49	AVG



Page: 26 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX GFSK Mode 2441MHz	CU137	LINE .			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

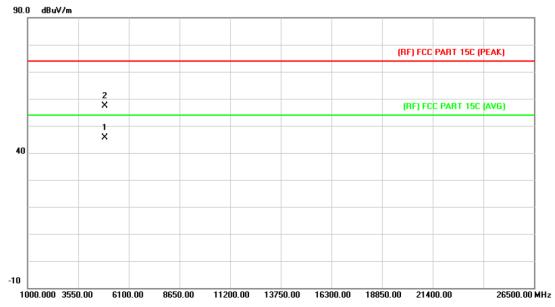


No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.159	43.74	13.90	57.64	74.00	-16.36	peak
2	*	4881.323	32.41	13.90	46.31	54.00	-7.69	AVG



Page: 27 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	°C Relative Humidity:				
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX GFSK Mode 2441MHz		DITT.			
Remark: No report for the emission which more than 10 dB below the prescribed limit.						

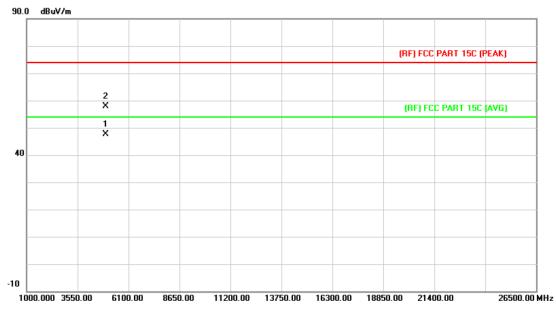


No	o. Mk	. Freq.		Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4881.259	31.67	13.90	45.57	54.00	-8.43	AVG
2		4881.354	43.53	13.90	57.43	74.00	-16.57	peak



Page: 28 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX GFSK Mode 2480MHz	CU137	Chine				
Remark:	Remark: No report for the emission which more than 10 dB below the prescribed limit.						
90.0 dBuV/m							

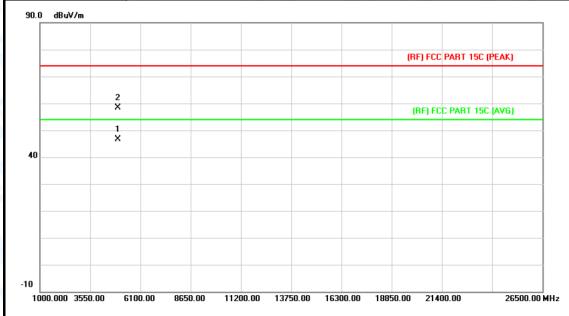


N	o. N	/lk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4	4960.036	33.32	14.36	47.68	54.00	-6.32	AVG
2		4	4960.687	43.50	14.36	57.86	74.00	-16.14	peak



Page: 29 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical						
Test Mode:	TX GFSK Mode 2480MHz		LINE TO				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

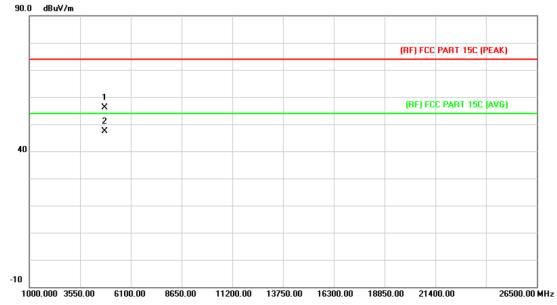


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.657	32.23	14.36	46.59	54.00	-7.41	AVG
2		4959.847	43.98	14.36	58.34	74.00	-15.66	peak



Page: 30 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX 8-DPSK Mode 2402MHz		DITT.				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
00.0 40.44							

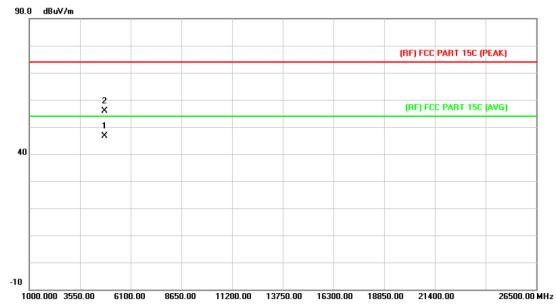


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.368	42.79	13.44	56.23	74.00	-17.77	peak
2	*	4804.214	33.87	13.44	47.31	54.00	-6.69	AVG



Page: 31 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical						
Test Mode:	TX 8-DPSK Mode 2402MHz		UMILL				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						

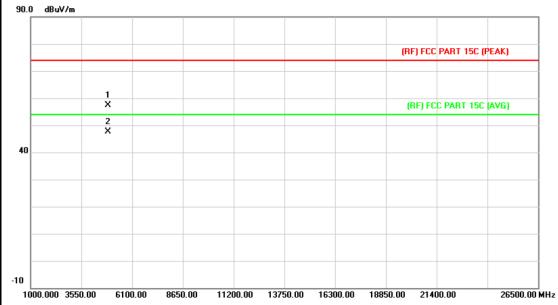


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.358	33.09	13.44	46.53	54.00	-7.47	AVG
2		4804.544	42.36	13.44	55.80	74.00	-18.20	peak



Page: 32 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX 8-DPSK Mode 2441MH	z	THE PERSON				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						
			· ·				

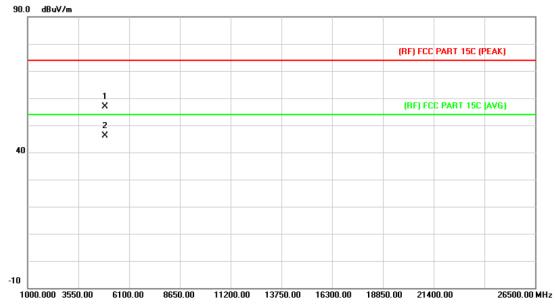


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.684	43.44	13.90	57.34	74.00	-16.66	peak
2	*	4882.651	33.69	13.90	47.59	54.00	-6.41	AVG



Page: 33 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical						
Test Mode:	TX 8-DPSK Mode 2441MHz		CHILL				
Remark:	No report for the emission which more than 10 dB below the						
	prescribed limit.						

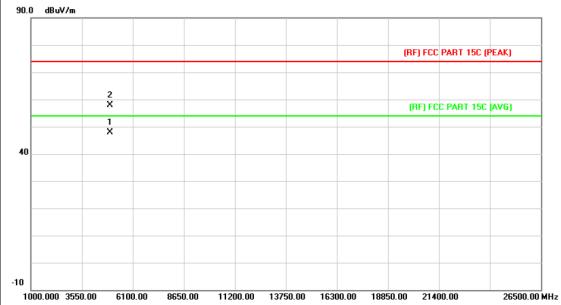


No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.355	42.86	13.90	56.76	74.00	-17.24	peak
2	*	4882.684	32.22	13.90	46.12	54.00	-7.88	AVG



Page: 34 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Horizontal						
Test Mode:	TX 8-DPSK Mode 2480MH	z	LINE TO SERVICE				
Remark:	No report for the emission which more than 10 dB below the prescribed limit.						
00.0 10.111							

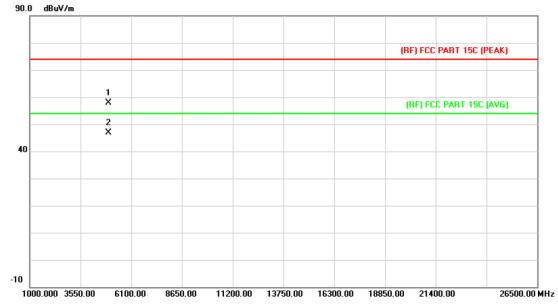


No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.391	33.50	14.36	47.86	54.00	-6.14	AVG
2		4960.647	43.60	14.36	57.96	74.00	-16.04	peak



Page: 35 of 91

The Egg	Model Name :	E1				
25 ℃	Relative Humidity:	55%				
AC 120V/60 HZ						
Vertical						
TX 8-DPSK Mode 2480MH	z	THE PARTY OF THE P				
emark: No report for the emission which more than 10 dB below the prescribed limit.						
	25 °C AC 120V/60 HZ Vertical TX 8-DPSK Mode 2480MH No report for the emission v	25 °C Relative Humidity: AC 120V/60 HZ Vertical TX 8-DPSK Mode 2480MHz No report for the emission which more than 10 dB				



No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.638	43.50	14.36	57.86	74.00	-16.14	peak
2	*	4959.829	32.42	14.36	46.78	54.00	-7.22	AVG



Page: 36 of 91

6. Restricted Bands Requirement

6.1 Test Standard and Limit

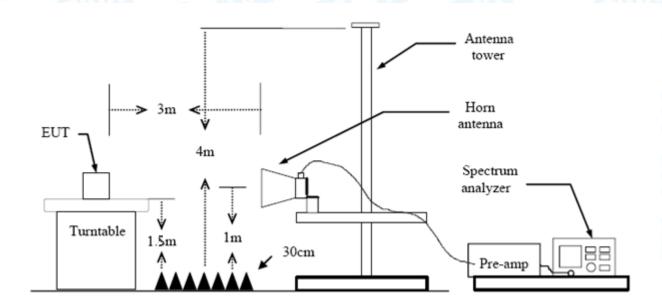
6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3m)	
	Peak	Average
310 ~2390	74	54
2483.5 ~2500	74	54

Note: All restriction bands have been tested, only the worst case is reported.

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.



Report No.: TB-FCC145925 Page: 37 of 91

(3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.4 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 KHz with Peak Detector for Average Values.

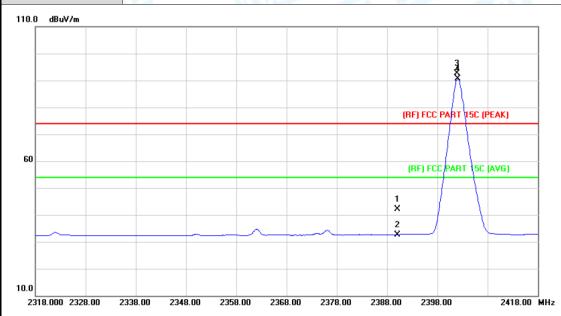
All restriction bands have been tested, only the worst case is reported.



Page: 38 of 91

(1) Radiation Test

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	25 °C Relative Humidity:				
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Horizontal					
Test Mode:	TX GFSK Mode 2402MHz					
Remark:	N/A		1			

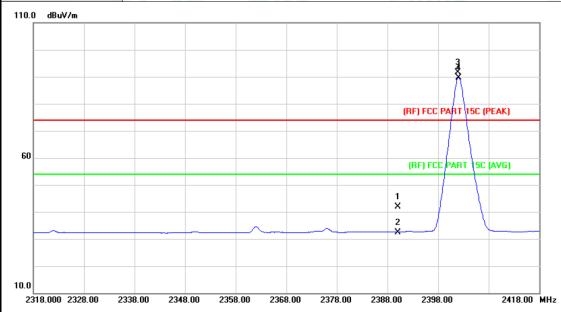


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.41	0.77	42.18	74.00	-31.82	peak
2		2390.000	31.91	0.77	32.68	54.00	-21.32	AVG
3	Χ	2401.900	91.74	0.82	92.56	Fundamental Frequency		peak
4	*	2402.000	89.69	0.82	90.51	Fundamental	Frequency	AVG



Page: 39 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	25 °C Relative Humidity: 5					
Test Voltage:	AC 120V/60 HZ						
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX GFSK Mode 2402MHz	(U) 32	LINE STORY				
Remark:	N/A						

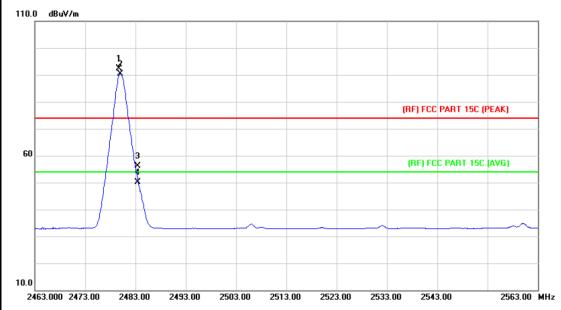


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.09	0.77	41.86	74.00	-32.14	peak
2		2390.000	31.69	0.77	32.46	54.00	-21.54	AVG
3	Χ	2401.900	90.85	0.82	91.67	Fundamental Frequency		peak
4	*	2402.100	88.86	0.82	89.68	Fundamental	Frequency	AVG



Page: 40 of 91

EUT:	The Egg	Model Name :	E1		
Temperature:	25 ℃	Relative Humidity:			
Test Voltage: AC 120V/60 HZ					
Ant. Pol. Horizontal					
Test Mode:	TX GFSK Mode 2480 MHz		LITTE OF		
Remark:	N/A				
110.0 dBuV/m					

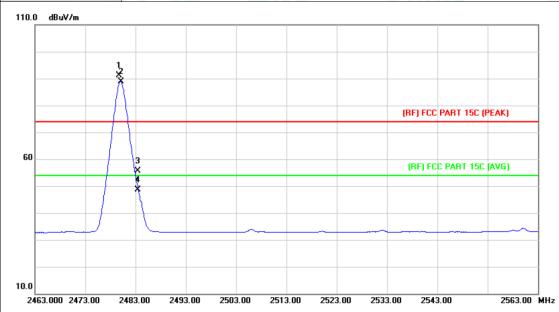


	No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
	1	*	2479.700	91.26	1.15	92.41	Fundamental	Frequency	peak
-	2	X	2480.000	89.33	1.15	90.48	Fundamental	Frequency	peak
,	3		2483.500	55.07	1.17	56.24	74.00	-17.76	peak
4	4		2483.500	48.96	1.17	50.13	54.00	-3.87	AVG



Page: 41 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX GFSK Mode 2480 MHz					
Remark:	N/A					

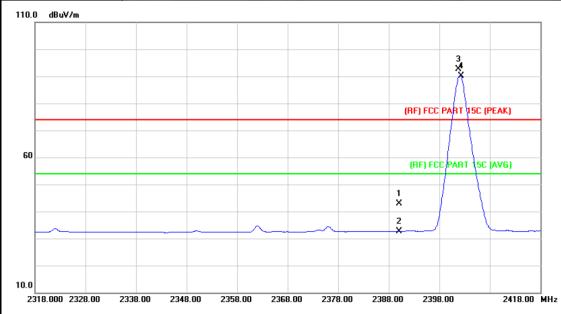


N	lo. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2479.700	89.97	1.15	91.12	Fundamental	Frequency	peak
2	*	2480.100	87.74	1.15	88.89	Fundamental	Frequency	AVG
3		2483.500	54.50	1.17	55.67	74.00	-18.33	peak
4		2483.500	47.47	1.17	48.64	54.00	-5.36	AVG



Page: 42 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage: AC 120V/60 HZ						
Ant. Pol.	Horizontal					
Test Mode:	TX 8-DPSK Mode 2402MHz	(1)	LINE TO			
Remark:	N/A					
110.0 dBuV/m						

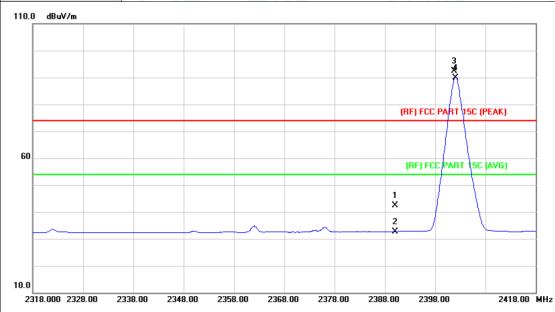


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.12	0.77	42.89	74.00	-31.11	peak
2		2390.000	31.80	0.77	32.57	54.00	-21.43	AVG
3	Χ	2401.800	91.69	0.82	92.51	Fundamental Frequency		peak
4	*	2402.300	89.21	0.82	90.03	Fundamenta	al Frequency	AVG



Page: 43 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ					
Ant. Pol.	Vertical					
Test Mode:	TX 8-DPSK Mode 2402MHz	TX 8-DPSK Mode 2402MHz				
Remark:	N/A					

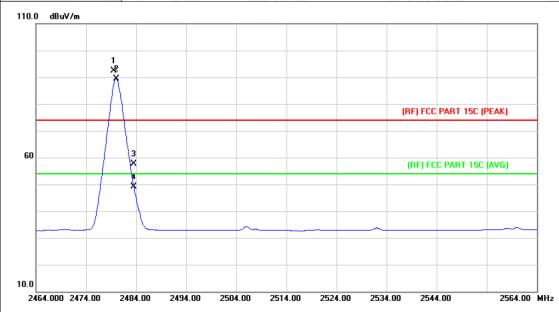


1	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1			2390.000	41.57	0.77	42.34	74.00	-31.66	peak
2			2390.000	31.91	0.77	32.68	54.00	-21.32	AVG
3		X	2401.800	91.54	0.82	92.36	Fundamental Frequency		peak
4	,	*	2402.000	89.15	0.82	89.97	Fundamental	Frequency	AVG



Page: 44 of 91

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ				
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	TX 8-DPSK Mode 2480MHz					
Remark:	N/A					

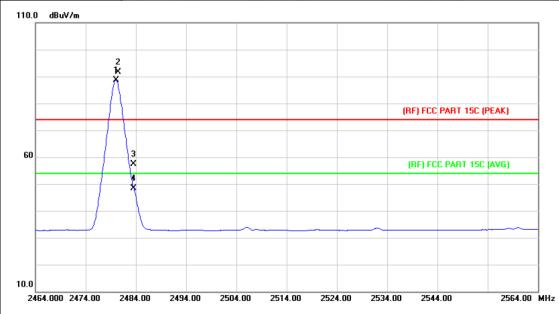


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.500	91.29	1.15	92.44	Fundamenta	Frequency	peak
2	*	2480.000	88.23	1.15	89.38	Fundamental	Frequency	AVG
3		2483.500	56.47	1.17	57.64	74.00	-16.36	peak
4		2483.500	48.06	1.17	49.23	54.00	-4.77	AVG



Page: 45 of 91

EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60 HZ	AC 120V/60 HZ					
Ant. Pol.	Vertical	THE PARTY OF THE P					
Test Mode:	TX 8-DPSK Mode 2480MHz						
Remark:	N/A						



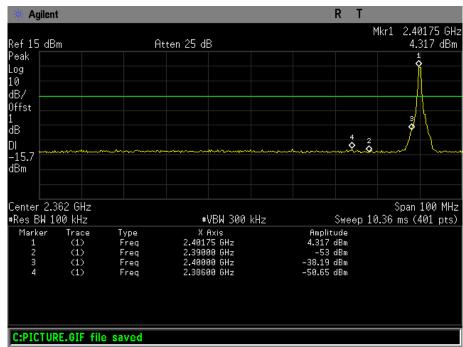
No	. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2480.100	87.58	1.15	88.73	Fundamental	Frequency	AVG
2	Χ	2480.400	90.52	1.15	91.67	Fundamental	Frequency	peak
3		2483.500	56.31	1.17	57.48	74.00	-16.52	peak
4		2483.500	47.16	1.17	48.33	54.00	-5.67	AVG

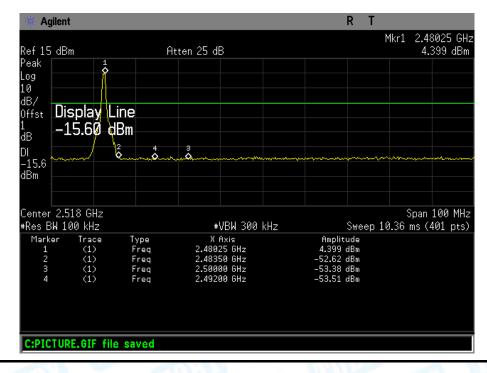




(2) Conducted Test

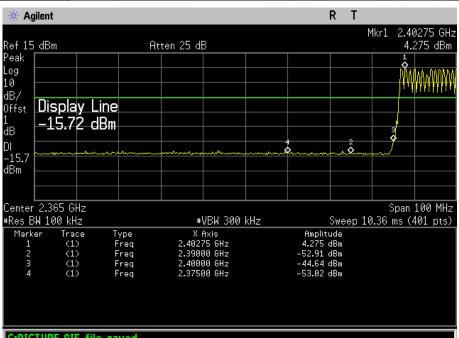
EUT:	The Egg	Model Name :	E1				
Temperature:	25 ℃	°C Relative Humidity: 55%					
Test Voltage:	DC 3.7V	DC 3.7V					
Test Mode:	TX GFSK Mode 2402MHz / 24	TX GFSK Mode 2402MHz / 2480 MHz					
Remark:	N/A						



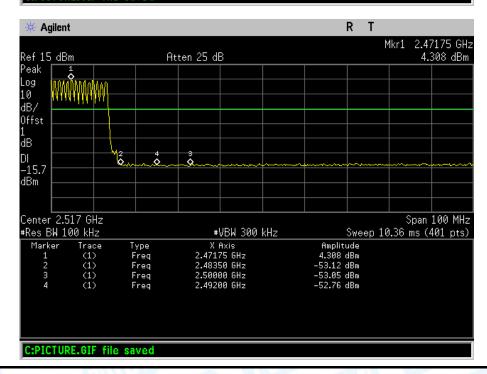




EUT: The Egg **Model Name:** E1 25 ℃ Temperature: **Relative Humidity:** 55% **Test Voltage:** DC 3.7V **Test Mode: GFSK Hopping Mode** Remark: N/A

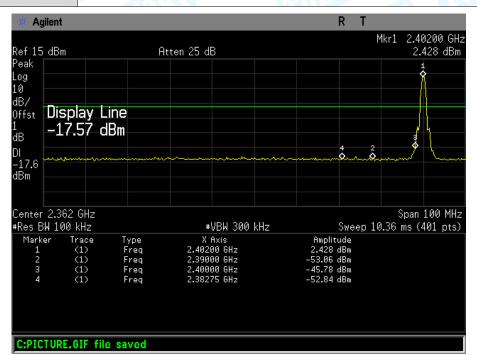


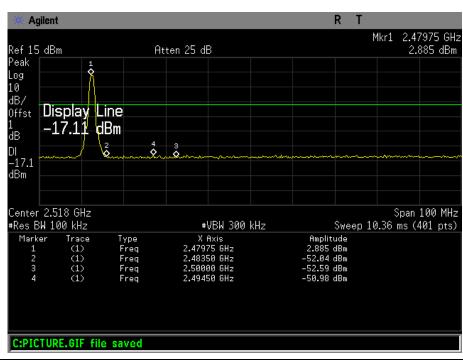
C:PICTURE.GIF file saved





EUT:The EggModel Name :E1Temperature:25 °CRelative Humidity:55%Test Voltage:DC 3.7VTest Mode:TX 8-DPSK Mode 2402MHz / 2480 MHzRemark:N/A







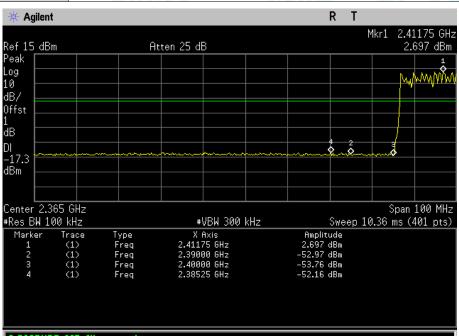
EUT:
The Egg
Model Name :
E1

Temperature:
25 °C
Relative Humidity:
55%

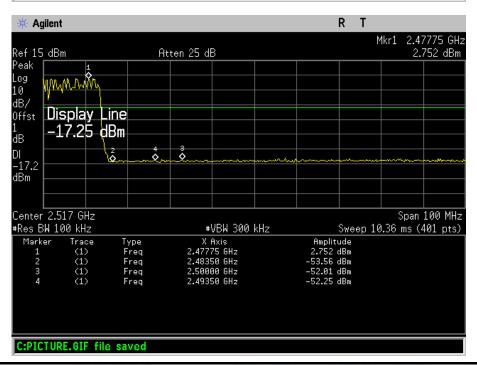
Test Voltage:
DC 3.7V

Test Mode:
8-DPSK Hopping Mode

Remark:
N/A



C:PICTURE.GIF file saved





Page: 50 of 91

7. Number of Hopping Channel

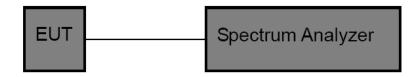
7.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.247 (a)(1)

6.1.2 Test Limit

Section	Test Item	Limit		
15.247	Number of Hopping Channel	>15		

7.2 Test Setup



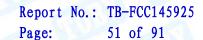
7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 KHz, VBW=100 KHz, Sweep time= Auto.

7.4 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

7.5 Test Data





EUT:
The Egg
Model Name:
E1

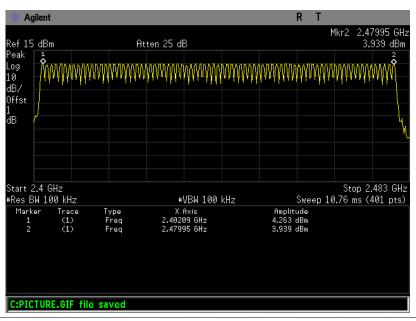
Temperature:
25 °C
Relative Humidity:
55%

Test Voltage: DC 3.7V

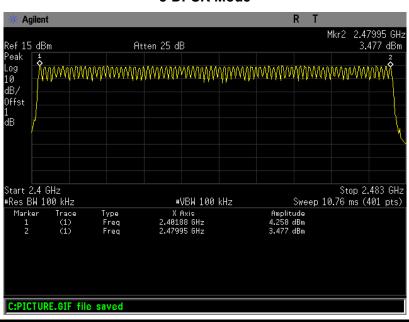
Test Mode: Hopping Mode (GFSK/ 8-DPSK)

Frequency Range	Quantity of Hopping Channel	Limit
2402MHz~2480MHz	79	>1 E
2402WIHZ~246UWIHZ	79	>15

GFSK Mode



8-DPSK Mode





Page: 52 of 91

8. Average Time of Occupancy

8.1 Test Standard and Limit

8.1.1 Test Standard FCC Part 15.247 (a)(1)

8.1.2 Test Limit

Section	Test Item	Limit	
15.247(a)(1)/ RSS-210	Average Time of	0.4 sec	
Annex 8(A8.1d)	Occupancy	0.4 Sec	

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=1MHz.
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.

8.4 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

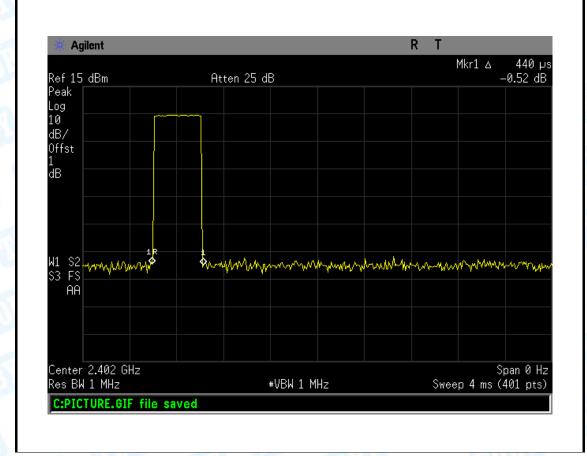


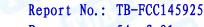
Page: 53 of 91

8.5 Test Data

EUT: The Egg		Model Name :		E1		
Temperature: 25 °C Relative Humidity:		55%				
Test Voltage:		DC 3.7V			16.00	
Test Mode:		Hopping I	Mode (GFSK DH1)			N HILL
Channel	Pu	lse Time	Total of Dwell	Period Time	Limit	Result
(MHz)		(ms)	(ms)	(s)	(ms)	Result
2402		0.440	140.80			
2441		0.440	140.80	31.60	400	PASS
2480		0.440	140.80			
GESK Honning Mode DH1						

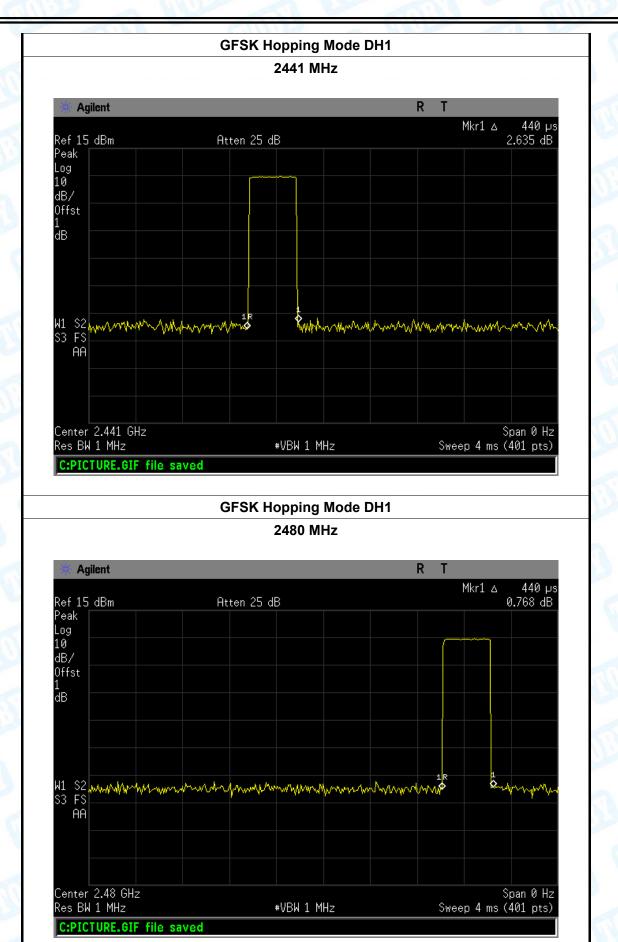
GFSK Hopping Mode DH1







Page: 54 of 91

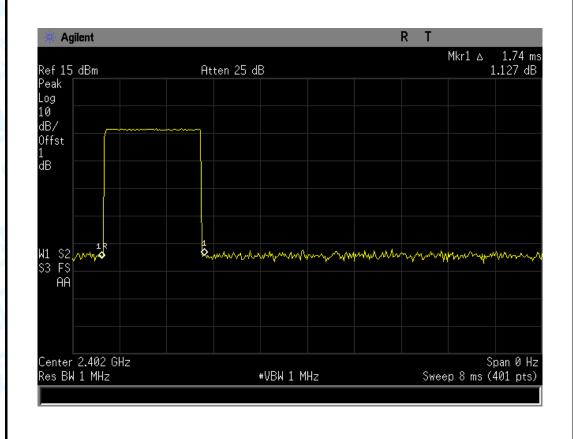


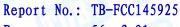


Page: 55 of 91

EUT: T		The Egg		Model Name :		E1
Temperature:		25 ℃		Relative Humidity:		55%
Test Voltage:	t Voltage: DC 3.7V					
Test Mode:		Hopping N	Mode (GFSK DH3)		Alle	
Channel (MHz)	Pu	lse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2402		1.740	278.40			
2441		1.740	278.40	31.60	400	PASS
2480		1.740	278.40			

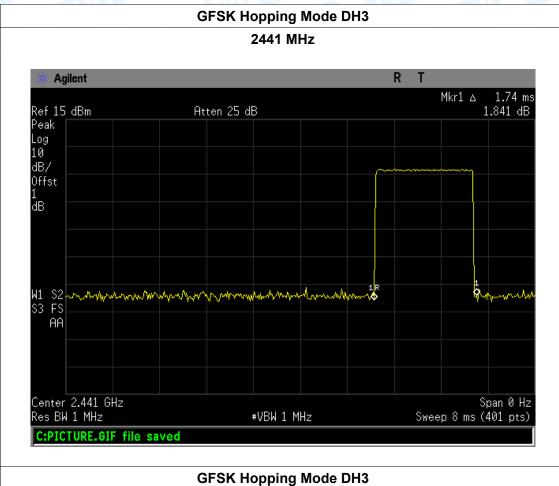
GFSK Hopping Mode DH3

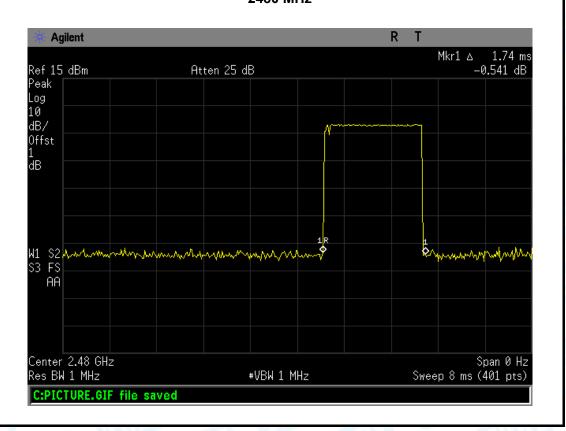






Page: 56 of 91



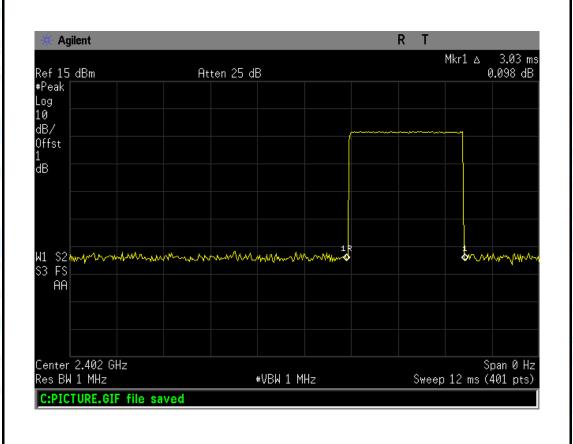


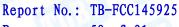


Page: 57 of 91

EUT: The Egg		Model Name :		E1		
Temperature:		25 ℃		Relative Humidity:		55%
Test Voltage:	Voltage: DC 3.7V					
Test Mode:		Hopping N	Mode (GFSK DH5)		Riber	
Channel (MHz)	Pu	lse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2402		3.030	323.20			
2441		3.030	323.20	31.60	400	PASS
2480		3.030	323.20			

GFSK Hopping Mode DH5



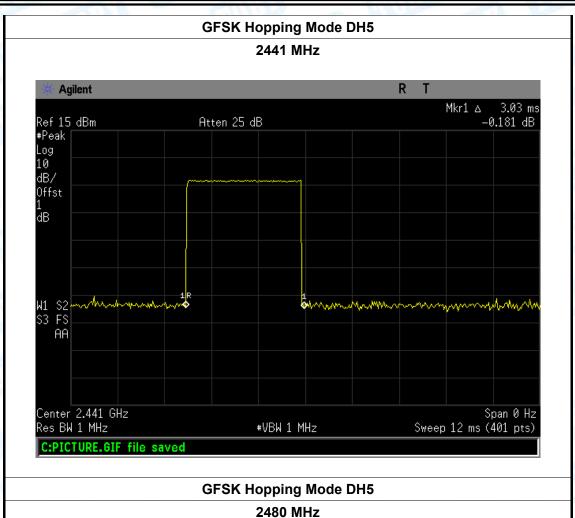




Center 2.48 GHz Res BW 1 MHz

C:PICTURE.GIF file saved

Page: 58 of 91



#VBW 1 MHz

Span 0 Hz

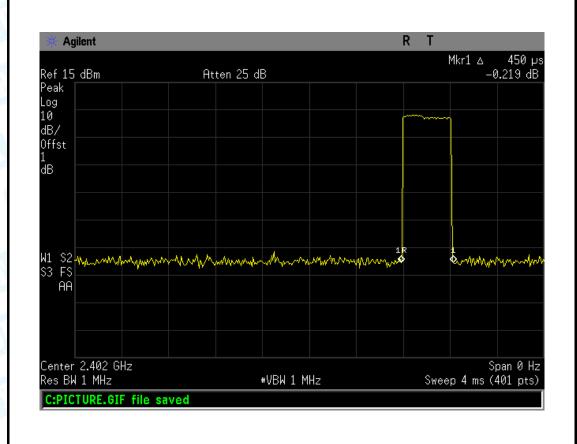
Sweep 12 ms (401 pts)

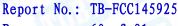


Page: 59 of 91

EUT: The Egg			Model Name :		E1	
Temperature	:	25 ℃		Relative Hum	idity:	55%
Test Voltage:		DC 3.7V				
Test Mode:		Hopping N	Mode (π/4-DQPSK D	DH1)		
Channel	Pu	lse Time	Total of Dwell	Period Time	Limit	Result
(MHz)		(ms)	(ms)	(s)	(ms)	Resuit
2402		0.450	144.00			
2441		0.440	140.80	31.60	400	PASS
2480		0.440	140.80			
	-					1

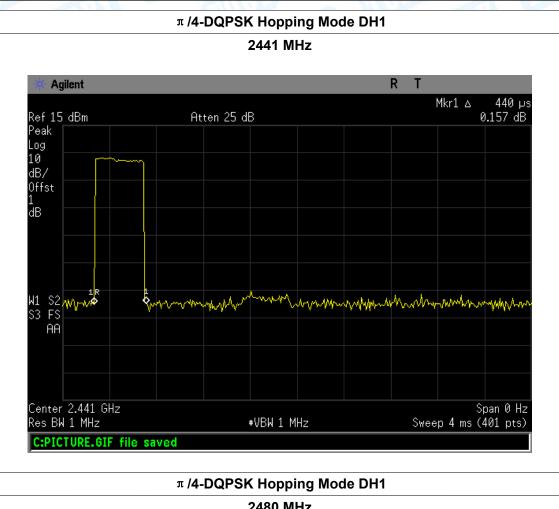
π /4-DQPSK Hopping Mode DH1

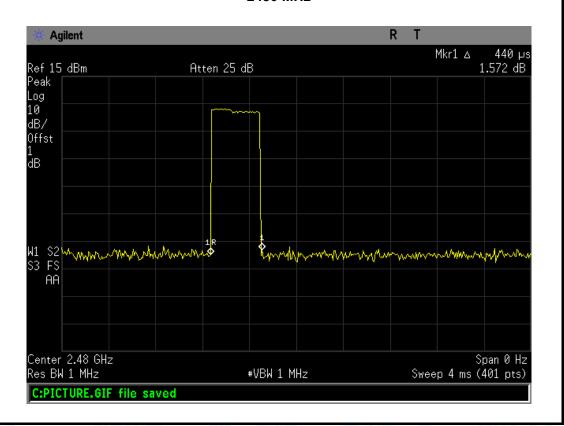






60 of 91 Page:



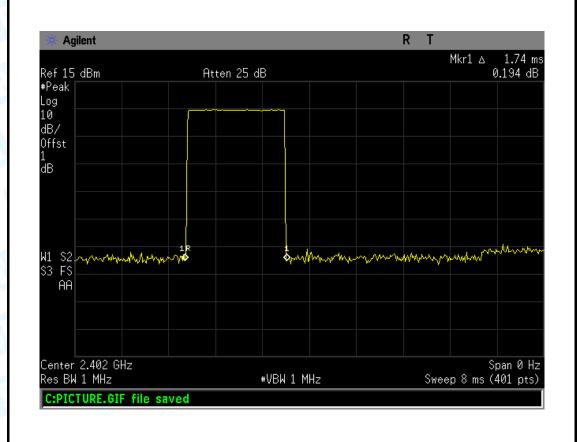


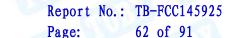


Page: 61 of 91

EUT: The Egg		The Egg	LINI.	Model Name :		E1
Temperature:		25 ℃		Relative Humidity:		55%
Test Voltage:		DC 3.7V				
Test Mode:		Hopping N	Mode (π/4-DQPSK	DH3)	N. W.	
Channel	Pu	Ise Time	Total of Dwell	Period Time	Limit	Result
(MHz)		(ms)	(ms)	(s)	(ms)	Resuit
2402		1.740	278.40			
2441		1.740	278.40	31.60	400	PASS
2480		1.740	278.40			
	•		// DODOK !! ! .	M 1 B110		*

π /4-DQPSK Hopping Mode DH3



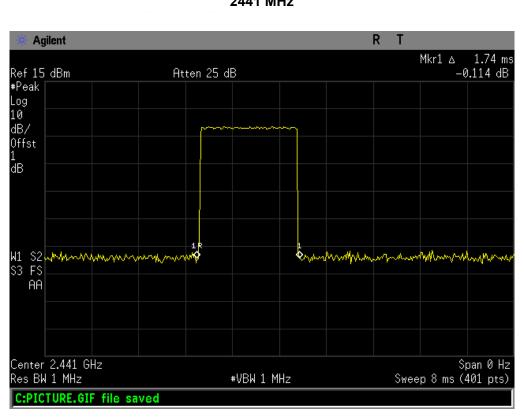




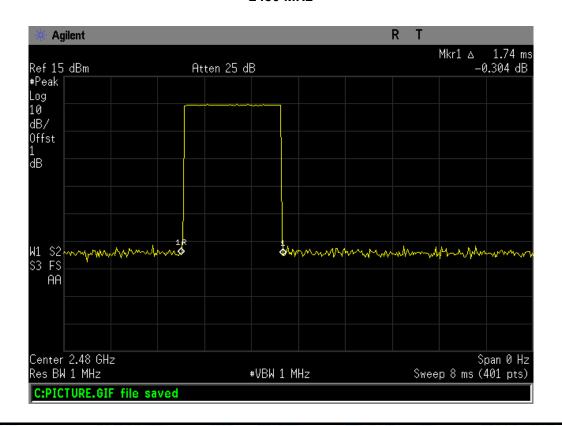
Page: 62 of 91

π /4-DQPSK Hopping Mode DH3

2441 MHz



π /4-DQPSK Hopping Mode DH3

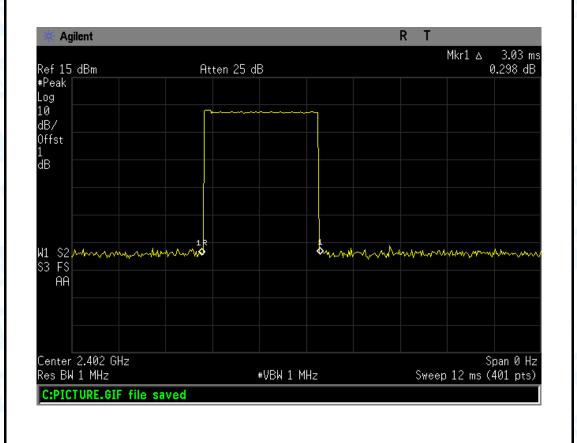




Page: 63 of 91

					1000 1000		
EUT:		The Egg		Model Name :		E1	
Temperature:		25 ℃		Relative Humidity:		55%	
Test Voltage:		DC 3.7V		1			
Test Mode:		Hopping N	Mode (π/4-DQPSK D)H5)	F. F.		
Channel	Pulse Time		Total of Dwell	l Period Time	Limit	Decuit	
(MHz)		(ms)	(ms)	(s)	(ms)	Result	
2402		3.030	323.20				
2441		3.030	323.20	31.60	400	PASS	
2480		3.030	323.20				
						•	

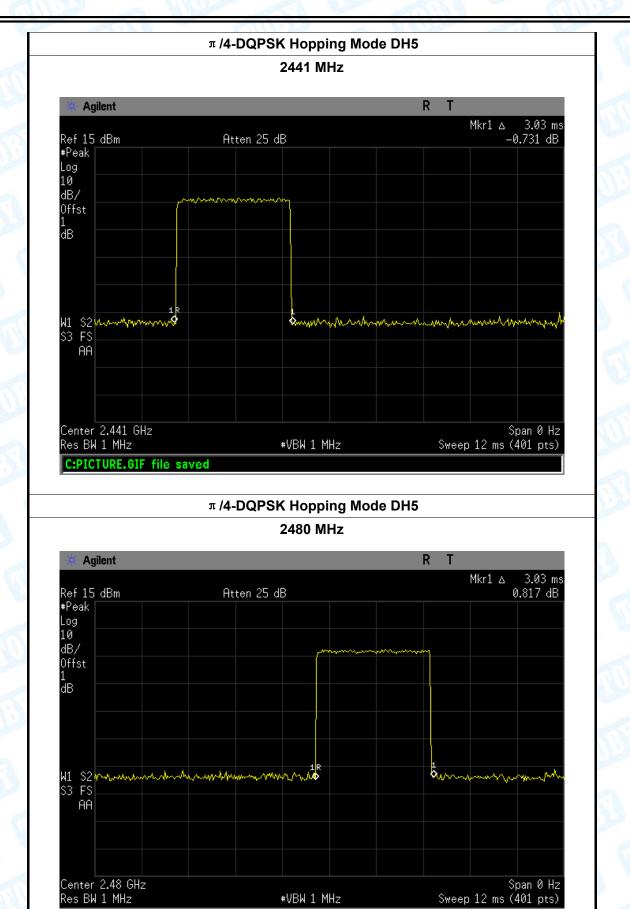
π /4-DQPSK Hopping Mode DH5







64 of 91 Page:



#VBW 1 MHz

C:PICTURE.GIF file saved

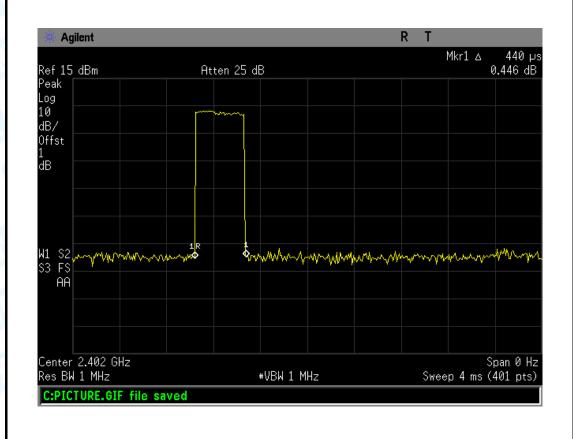


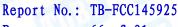
Page: 65 of 91

Channel (MHz)	Pu	lse Time (ms)	Total of Dwell (ms)	Period Time	Limit (ms)	Result
Test Mode:		Hopping I	Mode (8-DPSK DH1)		Alle	
Test Voltage:		DC 3.7V				
Temperature:		25 ℃	Relative Humidity: 55%			55%
EUT:		The Egg		Model Na	ame :	E1

(MHz) Total of Dwell (ms) Time (s) Clinic (ms) Result 2402 0.440 140.80 31.60 400 PASS 2480 0.440 140.80 31.60 400 PASS

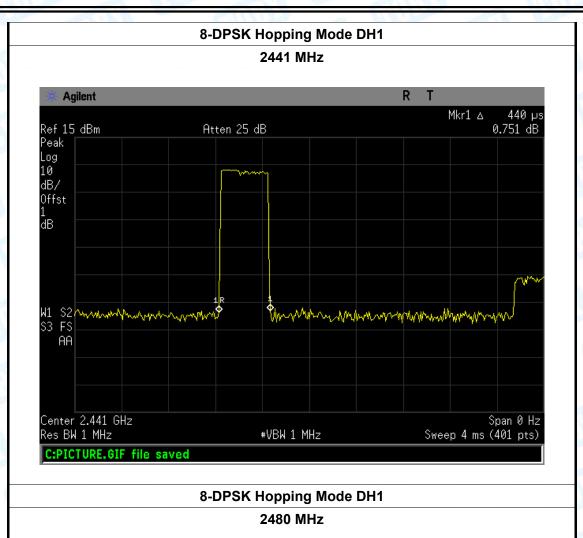
8-DPSK Hopping Mode DH1

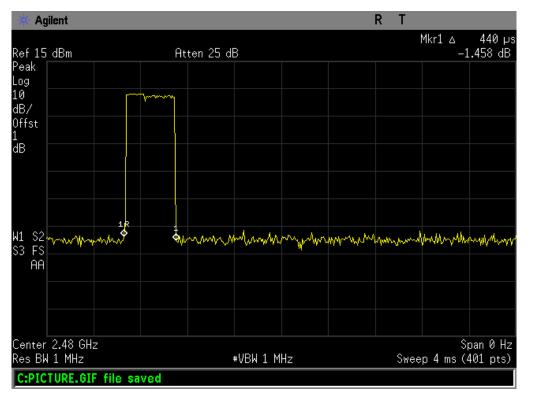






Page: 66 of 91







2480

1.740

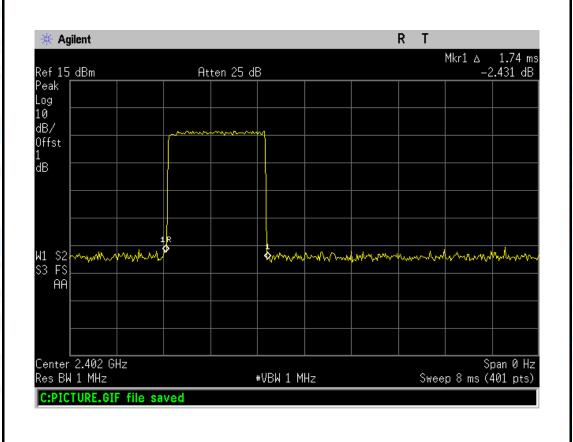
Report No.: TB-FCC145925

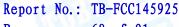
Page: 67 of 91

EUT:		The Egg		Model Name :		E1
Temperature:		25 °C		Relative Humidity:		55%
Test Voltage:		DC 3.7V		1		
Test Mode:		Hopping I	Mode (8-DPSK DH3)		Alle	
Channel (MHz)	Pu	lse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2402		1.740	278.40			
2441		1.740	278.40	31.60	400	PASS

8-DPSK Hopping Mode DH3

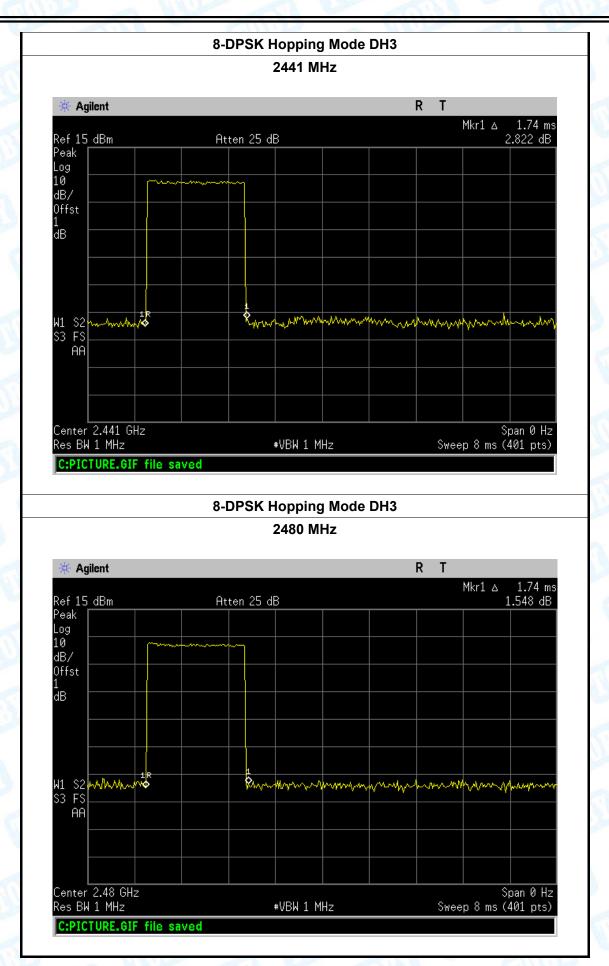
278.40







Page: 68 of 91

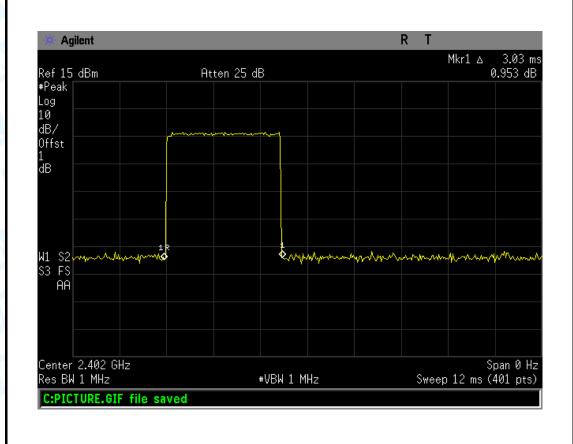




Page: 69 of 91

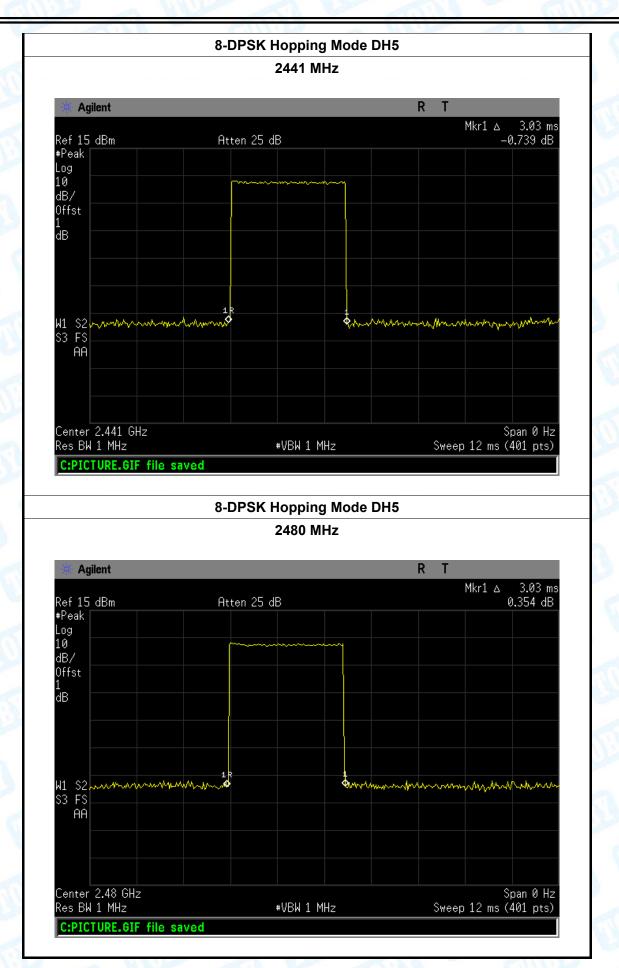
EUT: The		The Egg		Model Name :		E1
Temperature:		25 ℃		Relative Humidity:		55%
Test Voltage:		DC 3.7V		6		
Test Mode:		Hopping I	Mode (8-DPSK DH5)		N. B.	
Channel (MHz)	Pu	ilse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
2402		3.030	323.20			
2441		3.030	323.20	31.60	400	PASS
2480		3.030	323.20			

8-DPSK Hopping Mode DH5











Page: 71 of 91

9. Channel Separation and Bandwidth Test

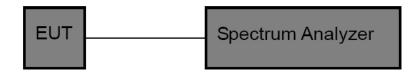
9.1 Test Standard and Limit

9.1.1 Test Standard FCC Part 15.247

9.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)	
Bandwidth	<=1 MHz (20dB bandwidth)	2400~2483.5	
Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5	

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:

Channel Separation: RBW=30 kHz, VBW=100 kHz.

Bandwidth: RBW=30 kHz, VBW=100 kHz.

- (3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
 - (4) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:30 kHz, and Video Bandwidth:100 kHz. Sweep Time set auto.

9.4 EUT Operating Condition

The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Bandwidth Test.

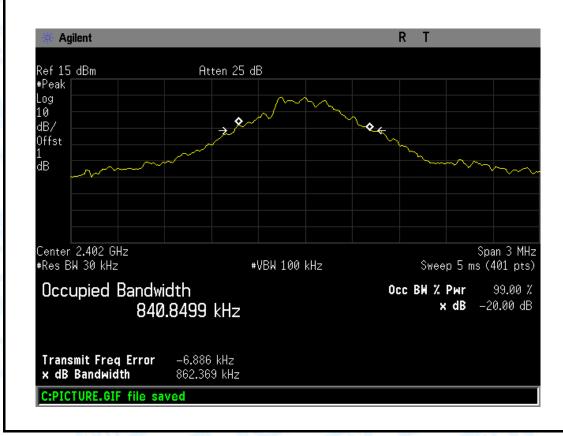


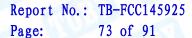
Page: 72 of 91

9.5 Test Data

EUT:	The Egg	Model Name :	E1			
Temperature:	25 ℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Test Mode:	7 110					
Channel frequence (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)			
2402	840.8499	862.369				
2441	855.3240	918.153				
2480	829.7094	853.886				

GFSK TX Mode







GFSK TX Mode 2441 MHz Agilent Ref 15 dBm Atten 25 dB #Peak Log 10 10 dB/ Offst đΒ Center 2.441 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Occupied Bandwidth Occ BW % Pwr 99.00 % -20.00 dB x dB 855.3240 kHz Transmit Freq Error x dB Bandwidth -3.737 kHz 918.153 kHz C:PICTURE.GIF file saved **GFSK TX Mode** 2480 MHz R Agilent





2480

Report No.: TB-FCC145925

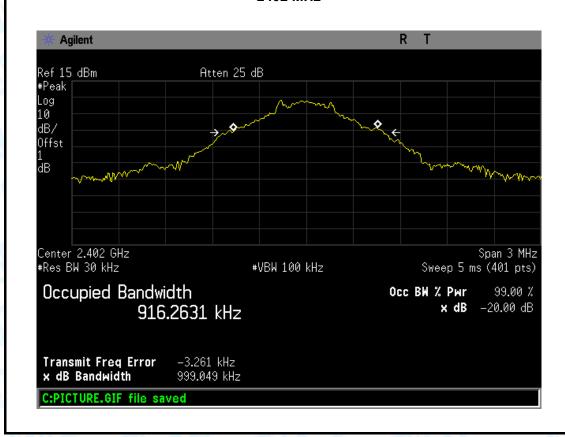
Page: 74 of 91

EUT:	The Egg	Model Name :	E1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX Mode (π /4-DQPSK)		
			20dB
Channel frequence (MHz)	cy 99% OBW (kHz)	20dB Bandwidth (kHz)	Bandwidth *2/3 (kHz)
•			Bandwidth *2/3

π/4-DQPSK TX Mode

903.6988

952.671







Center 2.48 GHz #Res BW 30 kHz

Occupied Bandwidth

Transmit Freq Error x dB Bandwidth

C:PICTURE.GIF file saved

903.6988 kHz

-1.988 kHz 952.671 kHz

π/4-DQPSK TX Mode 2441 MHz Agilent R Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Offst đΒ Center 2.441 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Occupied Bandwidth Occ BW % Pwr 99.00 % **x dB** -20.00 dB 903.7469 kHz Transmit Freq Error x dB Bandwidth -718.785 Hz 997.429 kHz C:PICTURE.GIF file saved π/4-DQPSK TX Mode 2480 MHz R Agilent Ref 15 dBm #Peak Atten 25 dB Log 10 dB/ Offst đΒ

#VBW 100 kHz

99.00 % -20.00 dB

Span 3 MHz Sweep 5 ms (401 pts)

Occ BW % Pwr

x dB



2441

2480

Report No.: TB-FCC145925

811.33

813.33

Page: 76 of 91

EUT:	The Egg	Model Name :	E1		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V				
Test Mode:	TX Mode (8-DPSK)				
Channel frequence	99% OBW	20dB Bandwidth	20dB		
(MHz) (kHz)		(kHz)	Bandwidth *2/3		
			(kHz)		
2402	1136 60	1210 00	806 67		

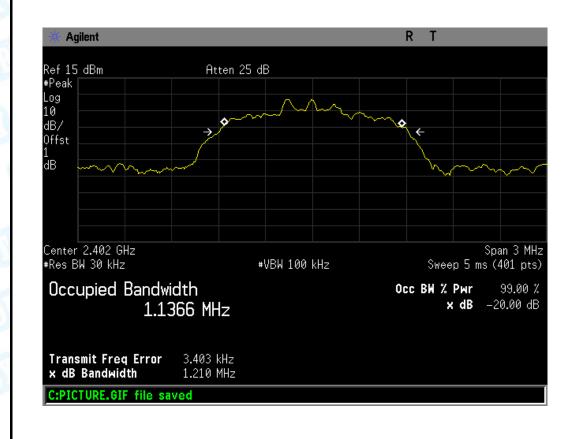
8-DPSK TX Mode 2402 MHz

1217.00

1220.00

1138.40

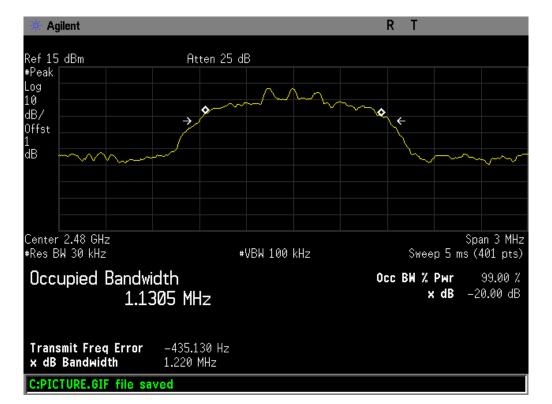
1130.50







8-DPSK TX Mode 2441 MHz Agilent Ref 15 dBm Atten 25 dB #Peak Log 10 dB/ Offst ďΒ Center 2.441 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Occupied Bandwidth Occ BW % Pwr 99.00 % x dB -20.00 dB 1.1384 MHz Transmit Freq Error x dB Bandwidth 950.732 Hz 1.217 MHz C:PICTURE.GIF file saved 8-DPSK TX Mode 2480 MHz Agilent R





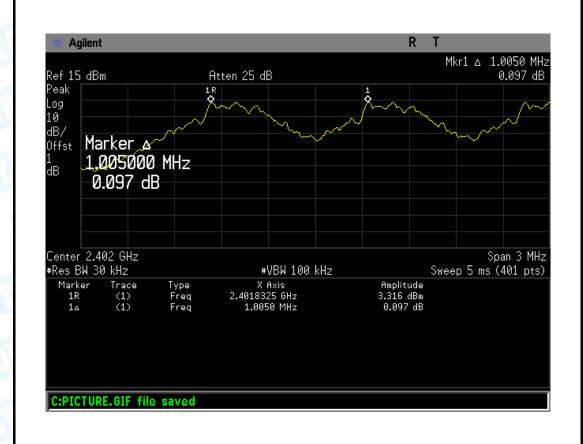
Page: 78 of 91

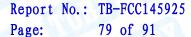
EUT:	The Egg	Model Name :	E1
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		A WILLIAM

Test Mode: Hopping Mode (GFSK)

Channel frequency (MHz)	Separation Read Value	Separation Limit (kHz)
	(kHz)	
2402	1005.00	862.369
2441	1005.00	918.153
2480	1005.00	853.886

GFSK Hopping Mode







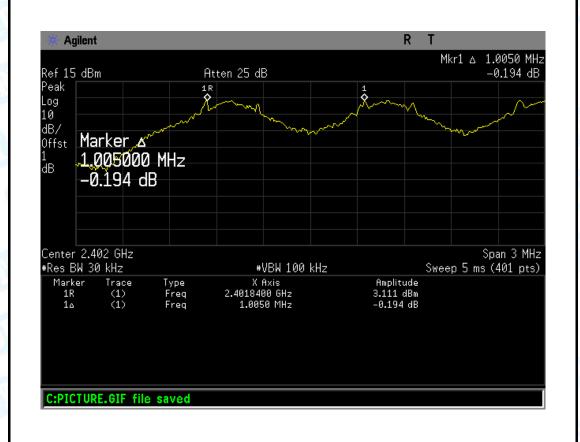
GFSK Hopping Mode 2441 MHz R Agilent Mkr1 🛕 1.0050 MHz -0.091 dB Ref 15 dBm Atten 25 dB Peak Log 10 dB/ Marker 🕹 Offst 1.005000 MHz đΒ -0.091 dB Center 2.442 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Marker 1R 1۵ Trace (1) (1) Amplitude 3.402 dBm -0.091 dB X Axis 2.4408400 GHz 1.0050 MHz Type Freq Freq C:PICTURE.GIF file saved **GFSK Hopping Mode** 2480 MHz

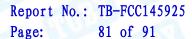
Agilent Mkr1 A 1.0050 MHz Ref 15 dBm Peak Atten 25 dB -0.025 dB Log 10 dB/ Marker 🛆 Offst 1.005000 MHz đΒ -0.025 dB Center 2.479 GHz Span 3 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 5 ms (401 pts) Trace (1) (1) X Axis 2.4788400 GHz 1.0050 MHz Marker Type Freq Freq Amplitude 3.333 dBm -0.025 dB A:\SCREN010.WMF file saved



Page: 80 of 91

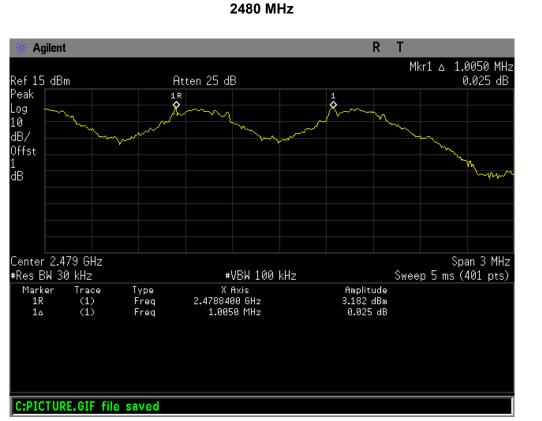
EUT:	The Egg	THU !	Model	Name :	E1
Temperature:	25 ℃		Relative Humidity: 55%		55%
Test Voltage:	DC 3.7V				
Test Mode:	Hopping N	Mode (π/4-DQPSK)		1 Allen	
Channel frequen	cy (MHz)	Separation Read V	alue	Separation	Limit (kHz)
		(kHz)			
2402		1005.00		999	9.049
2441		1005.00	997.429		7.429
2480		1005.00	005.00 952.671		2.671
π /4-DQPSK Hopping Mode					







π /4-DQPSK Hopping Mode 2441 MHz R Agilent Mkr1 🛕 1.0050 MHz -0.023 dB Ref 15 dBm Atten 25 dB Peak Log 10 dB/ Offst ďΒ Center 2.442 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Marker 1R 1۵ Trace (1) (1) Amplitude 3.289 dBm -0.023 dB Type Freq Freq X Axis 2.4408400 GHz 1.0050 MHz C:PICTURE.GIF file saved π /4-DQPSK Hopping Mode 2480 MHz

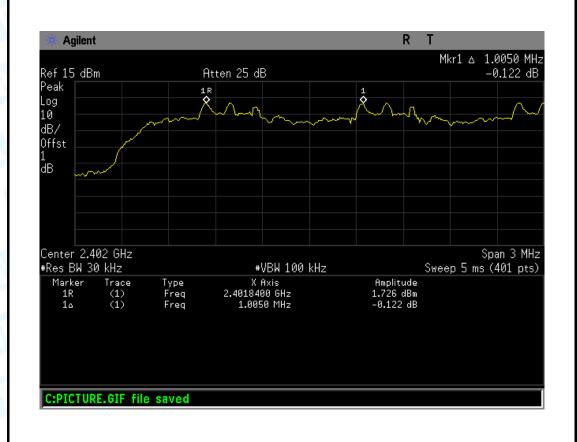


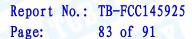


Page: 82 of 91

EUT:	The Egg	The state of the s	Model	Name :	E1
Temperature:	25 ℃		Relative Humidity:		55%
Test Voltage:	DC 3.7V		1		9
Test Mode:	Hopping N	Mode (8-DPSK)		1 Am	
Channel frequen	cy (MHz)	Separation Read V	Read Value Separation Limit (kHz)		Limit (kHz)
		(kHz)			
2402		1005.00		808	6.67
2441		1005.00	811.33		.33
2480		1005.00	813.33		3.33
8-DPSK Hopping Mode					









8-DPSK Hopping Mode 2441 MHz R Agilent Mkr1 A 1.0050 MHz Ref 15 dBm Atten 25 dB -0.038 dB Peak Log 10 dB/ Marker 🛆 Offst 1.005000 MHz đΒ -0.038 dB Center 2.442 GHz #Res BW 30 kHz Span 3 MHz Sweep 5 ms (401 pts) #VBW 100 kHz Marker 1R 1۵ Trace (1) (1) Amplitude 2.02 dBm -0.038 dB Type Freq Freq X Axis 2.4408400 GHz 1.0050 MHz C:PICTURE.GIF file saved 8-DPSK Hopping Mode 2480 MHz Agilent Mkr1 A 1.0050 MHz Ref 15 dBm Peak Atten 25 dB -0.052 dB Log



Page: 84 of 91

10. Peak Output Power Test

10.1 Test Standard and Limit

10.1.1 Test Standard FCC Part 15.247 (b) (1)

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125 mW(21dBm)	2400~2483.5

10.2 Test Setup



10.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:

Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz. RBW=3 MHz, VBW=3 MHz for bandwidth more than 1MHz.

10.4 EUT Operating Condition

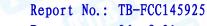
The EUT was set to continuously transmitting in the max power during the test.



Page: 85 of 91

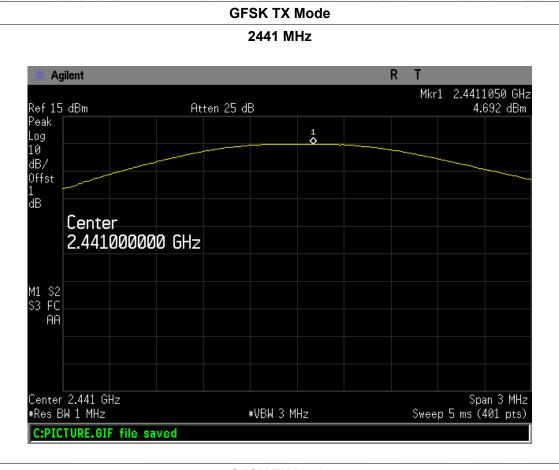
10.5 Test Data

UT:	The Egg			el Name :	E1
emperature:	25 ℃	E FULL	Relat	ive Humidity:	55%
est Voltage:	DC 3.7V		MIL		MATE
est Mode:	TX Mode	(GFSK)			
Channel frequen	cy (MHz)	Test Result (dBm)	Limit (dBm)	
2402		4.557			
2441		4.692		30	
2480		4.702			
		GFSK TX M	ode		
		2402 MH	Z		
* Agilent	-	_	-	R T	-
		0 05 18		Mkr1 2.	4021275 GHz
Ref 15 dBm Peak		Atten 25 dB			4.557 dBm
Log 10			1 •		
dB/					
Offst					
dB/ Offst 1 dB					
Offst					
Offst					
Offst 1 dB					
Offst 1 dB M1 S2 S3 FC					
Offst 1 dB					
Offst 1 dB M1 S2 S3 FC					
Offst 1 dB M1 S2 S3 FC					
Offst 1 dB M1 S2 S3 FC	2	#VBW 3 MH:			Span 3 MHz

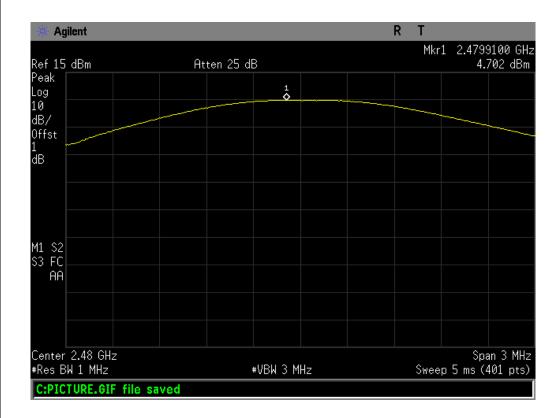




Page: 86 of 91



GFSK TX Mode

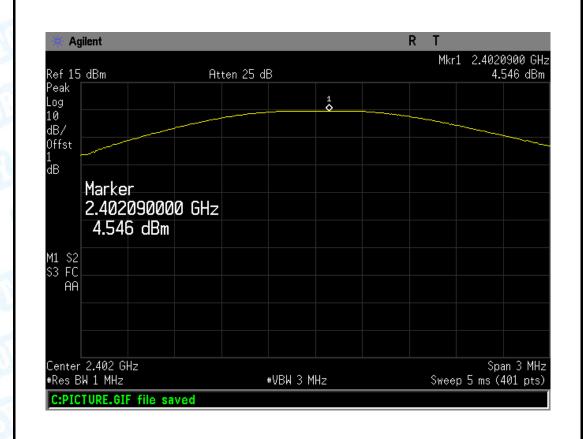


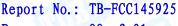


Page: 87 of 91

EUT:	The Egg		Model Name :	E1
Temperature:	25 ℃	Relative Humidity:		55%
Test Voltage:	DC 3.7V			(3)
Test Mode:	TX Mode	(π/4-DQPSK)		
Channel frequen	Channel frequency (MHz) Test Result (dBm) Lin		mit (dBm)	
2402		4.546		
2441		4.771	4.771	
2480		4.721		
π /4-DOPSK TX Mode				

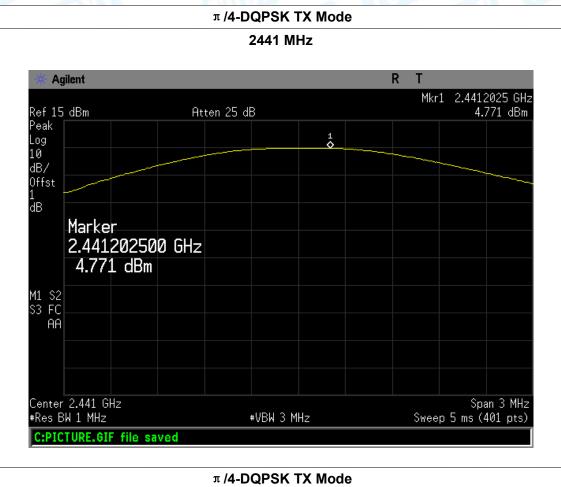
π /4-DQPSK TX Mode

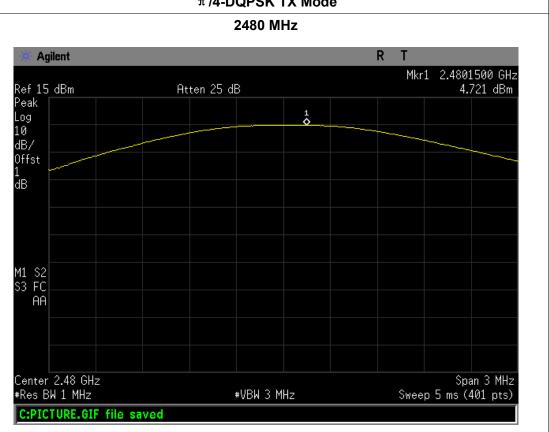






Page: 88 of 91

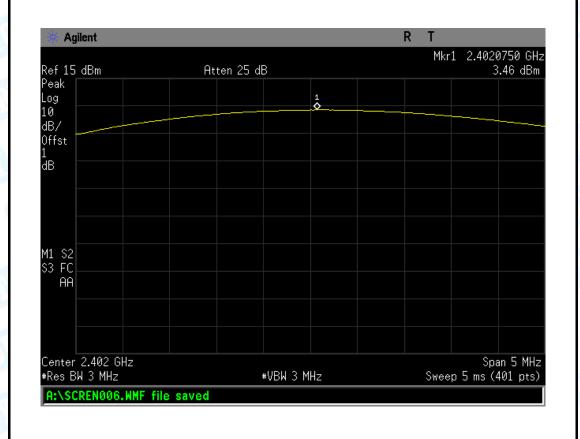






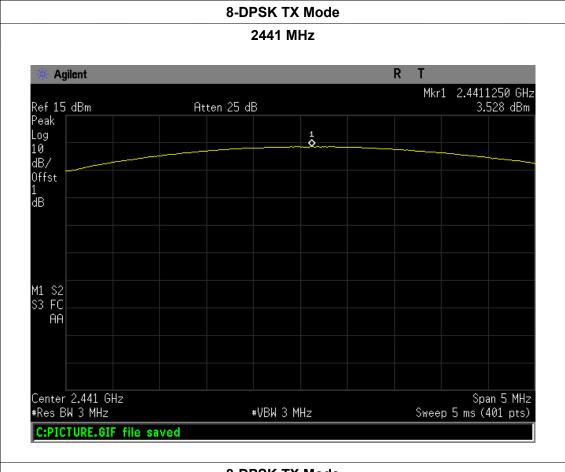
Page: 89 of 91

EUT:	The Egg		Model Name :	E1
Temperature:	25 ℃	Relative Humidity:		55%
Test Voltage:	DC 3.7V			
Test Mode:	TX Mode	(8-DPSK)	A ME	
Channel frequen	el frequency (MHz) Test Result (dBm) Limit (dBm)		nit (dBm)	
2402		3.460		
2441		3.528		21
2480		3.441		
		8-DPSK TX N	lode	

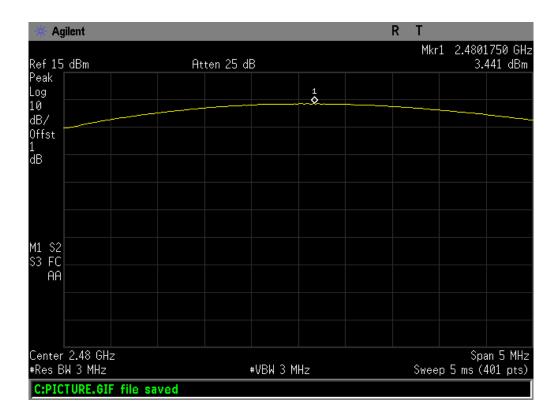




Page: 90 of 91









Page: 91 of 91

11. Antenna Requirement

11.1 Standard Requirement

11.1.1 Standard FCC Part 15.203

11.1.2 Requirement

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.

11.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1.24 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

The EUT antenna is a PCB antenna. It complies with the standard requirement.

Antenna Type	
▼ Permanent attached antenna	MORE
□ Unique connector antenna	THE CO
☐ Professional installation antenna	