

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC150911 Page: 1 of 102

FCC Radio Test Report FCC ID: 2AK4T-MOMO8

Original Grant

Report No. TB-FCC150911

Applicant Shenzhen Tideway Electronics Co., Ltd

Equipment Under Test (EUT)

EUT Name Tablet PC

MOMO8 Quad Model No.

MOMO8 Quad-A33, SS8TAB, V801S, Series Model No.

GoGEN TA 8600 Quad, TAB8

Brand Name PLOYER, SUNSTONE, GoGEN

2016-12-07 **Receipt Date**

2016-12-08 to 2017-02-06 **Test Date**

Issue Date 2017-02-07

Standards FCC Part 15: 2016, Subpart C(15.247)

ANSI C63.10: 2013 **Test Method**

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

the report.

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

TB-RF-074-1.0

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Contents

CON	NIENIS	
1.	GENERAL INFORMATION ABOUT EUT	
	1.1 Client Information	∠
	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	<i>6</i>
	1.5 Description of Test Mode	6
	1.6 Description of Test Software Setting	
	1.7 Measurement Uncertainty	
	1.8 Test Facility	8
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	17
	5.2 Test Setup	
	5.3 Test Procedure	19
	5.4 EUT Operating Condition	19
	5.5 Test Data	19
6.	RESTRICTED BANDS REQUIREMENT	40
	6.1 Test Standard and Limit	40
	6.2 Test Setup	
	6.3 Test Procedure	40
	6.4 EUT Operating Condition	
	6.5 Test Data	
7.	NUMBER OF HOPPING CHANNEL	
	7.1 Test Standard and Limit	60
	7.2 Test Setup	
	7.3 Test Procedure	
	7.4 EUT Operating Condition	
	7.5 Test Data	
8.	AVERAGE TIME OF OCCUPANCY	
	8.1 Test Standard and Limit	
	8.2 Test Setup	



Report No.: TB-FCC150911
Page: 3 of 102

Page:

	8.3 Test Procedure	63
	8.4 EUT Operating Condition	
	8.5 Test Data	
9.	CHANNEL SEPARATION AND BANDWIDTH TEST	82
	9.1 Test Standard and Limit	82
	9.2 Test Setup	82
	9.3 Test Procedure	
	9.4 EUT Operating Condition	
	9.5 Test Data	83
10.	PEAK OUTPUT POWER TEST	95
	10.1 Test Standard and Limit	95
	10.2 Test Setup	95
	10.3 Test Procedure	95
	10.4 EUT Operating Condition	95
	10.5 Test Data	96
11.	ANTENNA REQUIREMENT	102
	11.1 Standard Requirement	102
	11.2 Antenna Connected Construction	



Report No.: TB-FCC150911 Page: 4 of 102

1. General Information about EUT

1.1 Client Information

Applicant: Shenzhen Tideway Electronics Co., Ltd

Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District,

Shenzhen, Guangdong, China

Manufacturer : Shenzhen Tideway Electronics Co., Ltd

Address : 5F, 8#Building, Yusheng Industrial Park, Gushu, Bao'an District,

Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	٥	Tablet PC	Tablet PC			
Models No.		MOMO8 Quad, MOMO8 Quad-A33, SS8TAB, V801S, GoGEN TA 8600 Quad, TAB8				
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.				
		Operation Frequency:	Bluetooth V2.1+EDR: 2402~2480 MHz			
		Number of Channel:	Bluetooth: 79 Channels see Note 2			
Product		Max Peak Output Power:	Bluetooth: 0.496 dBm(8-DPSK)			
Description	O	Antenna Gain:	2 dBi PIFA Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps)			
	5	A TOP OF THE PARTY	π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)			
Power Supply	:	DC power by USB cable.				
		DC power by Li-ion battery.				
Power Rating	:	DC 5.0V by USB cable.				
		DC 3.7V by Li-ion battery.				
Connecting I/O Port(S)	8	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.

(2) Channel List:

Bluetooth Channel List							
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		

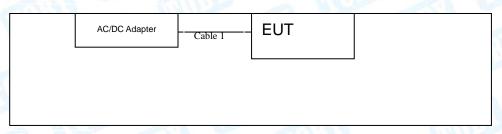


Report No.: TB-FCC150911 Page: 5 of 102

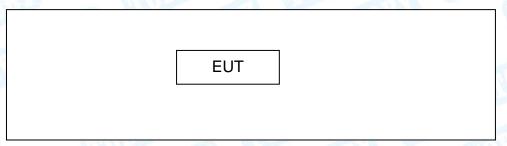
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	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

1.3 Block Diagram Showing the Configuration of System Tested

Charging with TX Mode



TX Mode



⁽³⁾ The Antenna information about the equipment is provided by the applicant.



Page: 6 of 102

1.4 Description of Support Units

Equipment Information							
Name Model FCC ID/VOC Manufacturer Used "							
AC/DC Adapter TEKA012 VOC TEKA				√			
AC/DC Adapter: Input:100~240V, 50/60Hz, 0.2A. Output: 5V, 1A							
	Cable Information						
Number Shielded Type Ferrite Core Length							
Cable 1	YES	YES	0.8M	WUR7			

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	USB Charging Mode				

For Radiated Test					
Final Test Mode Description					
Mode 1	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)				

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 modes 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)



Report No.: TB-FCC150911 Page: 7 of 102

TX Mode: 8-DPSK (3Mbps)

(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		RTLBTAPP.exe	The state of the s
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})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	±3.42 dB ±3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	±4.20 dB



Report No.: TB-FCC150911 Page: 8 of 102

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.



Report No.: TB-FCC150911
Page: 9 of 102

2. Test Summary

	F	CC Part 15 Subpart C(15.247)/ RSS	247 Issue 1		
Standard Section		-		B	
FCC	IC	Test Item	Judgment	Remark	
15.203	9	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(d)	RSS 247 5.5	Band Edge	PASS	N/A	
15.247(c)& 15.209	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:933.3197kHz π/4-DQPSK: 1214.50kHz 8-DPSK: 1201.10KHz	



Report No.: TB-FCC150911
Page: 10 of 102

3. Test Equipment

AC Main C	onducted Emiss	sion			
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
L.I.S.N	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
Radiation	Spurious Emiss	ion			
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	10MOMO8 Quad0/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	MOMO8 Quad17537	Mar. 20, 2016	Mar. 19, 2017
Horn Antenna	ETS-LINDGREN	3117	MOMO8 Quad43207	Mar. 19, 2016	Mar. 18, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 2017
Pre-amplifier	HP	8449B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	Conducted Emiss	sion			
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESPI	100321	Jul. 22, 2016	Jul. 21, 2017



Page: 11 of 102

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

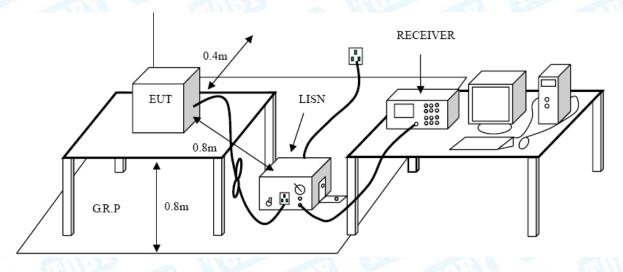
Conducted Emission Test Limit

Eroguonov	Maximum RF Line 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-FCC150911 Page: 12 of 102

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

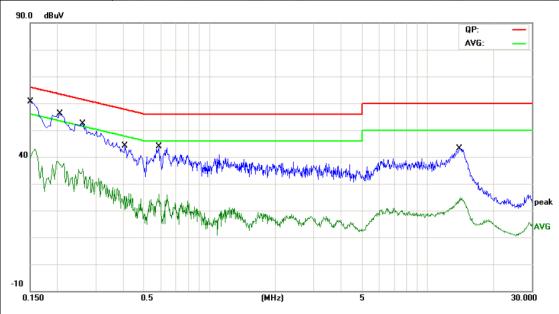
Please refer to the description of test mode.

4.5 Test Data

Test data please refer the following pages.



EUT: Tablet PC MOMO8 Quad **Model Name:** Temperature: 25℃ **Relative Humidity:** 55% **Test Voltage:** AC 120V/60 Hz Terminal: Line **Test Mode: USB Charging Mode** Remark: Only worse case is reported



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1		0.1500	43.82	9.92	53.74	65.99	-12.25	QP
2		0.1500	28.77	9.92	38.69	55.99	-17.30	AVG
3	*	0.2060	41.85	10.02	51.87	63.36	-11.49	QP
4		0.2060	27.57	10.02	37.59	53.36	-15.77	AVG
5		0.2620	34.73	10.02	44.75	61.36	-16.61	QP
6		0.2620	19.78	10.02	29.80	51.36	-21.56	AVG
7		0.4100	25.58	10.02	35.60	57.65	-22.05	QP
8		0.4100	11.49	10.02	21.51	47.65	-26.14	AVG
9		0.5860	28.16	10.06	38.22	56.00	-17.78	QP
10		0.5860	13.42	10.06	23.48	46.00	-22.52	AVG
11		13.9780	25.72	10.24	35.96	60.00	-24.04	QP
12		13.9780	10.93	10.24	21.17	50.00	-28.83	AVG



Report No.: TB-FCC150911
Page: 14 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz	CHILL ST.	A VIII
Terminal:	Neutral		
Test Mode:	USB Charging Mode		
Remark:	Only worse case is rep	orted	- TUIL
40 40 -10	Marine Ma	Mary Mary Mary Mary Mary Mary Mary Mary	QP:
0.150	0.5 (M	Hz) 5	30.000
	Reading Corr	ect Measure-	
No. Mk. Fr	eq. Level Fac		t Over
M	Hz dBuV dB	dBuV dBu\	/ dB Detector
1 * 0.15	500 48.18 9.9	92 58.10 65.9	9 -7.89 QP
2 0.15	500 32.76 9.9	92 42.68 55.9	9 -13.31 AVG
3 0.20	020 43.71 10.0	02 53.73 63.5	2 -9.79 QP
4 0.20	020 29.51 10.0	02 39.53 53.5	2 -13.99 AVG
5 0.25	500 39.50 10.0	02 49.52 61.7	5 -12.23 QP
6 0.25	500 25.72 10.0	02 35.74 51.7	5 -16.01 AVG
7 0.30	020 35.66 10.0	02 45.68 60.1	9 -14.51 QP
8 0.30		02 33.77 50.19	9 -16.42 AVG
9 0.63			0 -17.56 QP
10 0.63			0 -13.01 AVG
11 13.89			0 -24.79 QP
12 13.89			0 -28.20 AVG
Emission Level=	Read Level+ Correct F	actor	



EUT: Tablet PC **Model Name:** MOMO8 Quad 25℃ **Relative Humidity:** Temperature: 55% Test Voltage: AC 240V/60 Hz Terminal: Line **Test Mode: USB Charging Mode** Remark: Only worse case is reported 90.0 dBuV QP: AVG: AVG -10 0.150 0.5 (MHz) 30.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dΒ Detector 0.1500 45.50 9.92 55.42 65.99 -10.57 QΡ 1 2 0.1500 34.33 9.92 44.25 55.99 -11.74 **AVG** 3 0.1940 42.09 52.10 63.86 -11.76 QP 10.01 0.1940 31.50 10.01 41.51 53.86 -12.35 **AVG** 4 5 0.2900 32.28 10.02 42.30 60.52 -18.22 QΡ 50.52 -20.42 0.2900 20.08 10.02 30.10 **AVG** 6 7 0.6100 28.14 38.21 56.00 -17.79 QΡ 10.07 8 0.6100 16.10 10.07 26.17 46.00 -19.83 **AVG** 7.3420 QΡ 9 16.14 10.07 26.21 60.00 -33.79 7.3420 5.75 50.00 -34.18 AVG 10 10.07 15.82 14.1220 23.71 10.24 33.95 60.00 -26.05 QΡ 11 50.00 -29.12 **AVG** 12 14.1220 10.64 10.24 20.88 **Emission Level= Read Level+ Correct Factor**



Report No.: TB-FCC150911
Page: 16 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 240V/60 Hz	COUNTY OF THE PARTY OF THE PART	A MILLS					
Terminal:	Neutral		1.37					
Test Mode:	USB Charging Mode	D O						
Remark:	Only worse case is reported	WURT.	- Millian					
90.0 dBuV	0.5 (MHz)	Mayor Marine grand with the higher had been a second with the	QP:					
No. Mk. Fr	Reading Correct req. Level Factor	Measure- ment Limit	Over					
M	Hz dBuV dB	dBuV dBuV	dB Detector					
1 * 0.1	500 42.81 10.12	52.93 65.99	-13.06 QP					
2 0.1	500 30.73 10.12	40.85 55.99	-15.14 AVG					
3 0.19	940 39.31 10.12	49.43 63.86	-14.43 QP					
4 0.19	940 27.90 10.12	38.02 53.86	-15.84 AVG					
5 0.23	380 34.46 10.11	44.57 62.16	-17.59 QP					
6 0.23	380 22.39 10.11	32.50 52.16	-19.66 AVG					
7 0.29	900 28.67 10.09	38.76 60.52	-21.76 QP					
8 0.29	900 18.26 10.09	28.35 50.52	-22.17 AVG					
9 0.60	060 25.48 10.02	35.50 56.00	-20.50 QP					
10 0.60	060 17.86 10.02	27.88 46.00	-18.12 AVG					
11 14.2	180 20.64 10.08	30.72 60.00	-29.28 QP					
12 14.2	180 10.79 10.08	20.87 50.00	-29.13 AVG					
Emission Level= Read Level+ Correct Factor								



Report No.: TB-FCC150911
Page: 17 of 102

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	

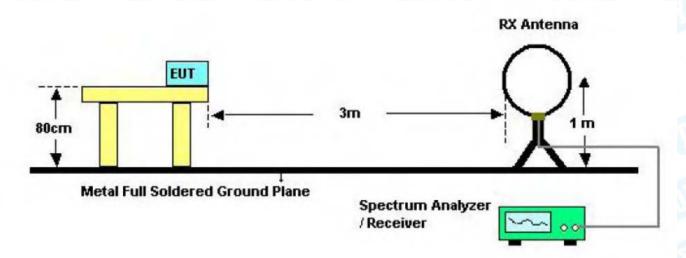
Note:

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

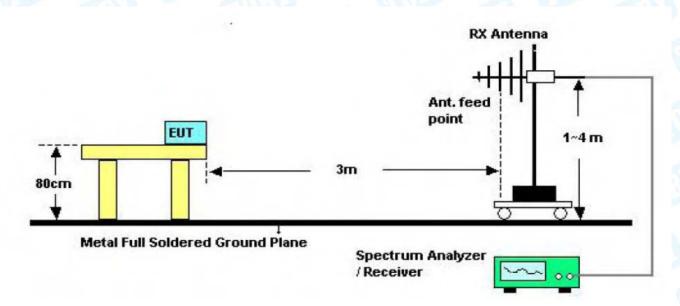


Report No.: TB-FCC150911
Page: 18 of 102

5.2 Test Setup



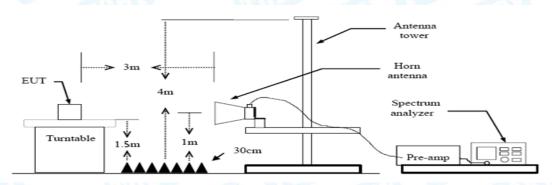
Below 30MHz Test Setup



Below 1000MHz Test Setup



Report No.: TB-FCC150911 Page: 19 of 102



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=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.



Page: 20 of 102

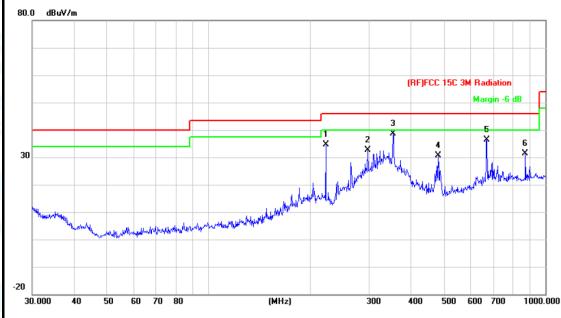
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

1112 10112						
EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol. Horizontal						
Test Mode:	TX GFSK Mode 2402MHz	THE PARTY OF THE P	Contract of the second			
Remark:	Only worse case is reported	W. Collinson	1 000			
80.0 dBuV/m						



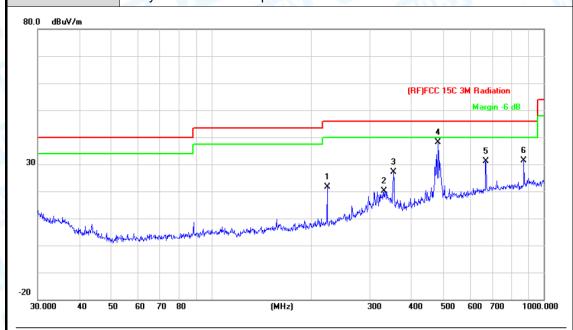
Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
	222.9502	53.56	-18.99	34.57	46.00	-11.43	peak
	297.2241	49.39	-16.71	32.68	46.00	-13.32	peak
*	352.9433	52.70	-14.14	38.56	46.00	-7.44	peak
	480.5276	41.84	-11.13	30.71	46.00	-15.29	peak
	670.4893	43.18	-6.86	36.32	46.00	-9.68	peak
	872.1832	36.12	-4.71	31.41	46.00	-14.59	peak
	Mk.	MHz 222.9502 297.2241 * 352.9433 480.5276 670.4893	Mk. Freq. Level MHz dBuV 222.9502 53.56 297.2241 49.39 * 352.9433 52.70 480.5276 41.84 670.4893 43.18	Mk. Freq. Level Factor MHz dBuV dB/m 222.9502 53.56 -18.99 297.2241 49.39 -16.71 * 352.9433 52.70 -14.14 480.5276 41.84 -11.13 670.4893 43.18 -6.86	Mk. Freq. Level Factor ment MHz dBuV dBuV dBuV/m 222.9502 53.56 -18.99 34.57 297.2241 49.39 -16.71 32.68 * 352.9433 52.70 -14.14 38.56 480.5276 41.84 -11.13 30.71 670.4893 43.18 -6.86 36.32	Mk. Freq. Level Factor ment Limit MHz dBuV dBuV dBuV/m dBuV/m 222.9502 53.56 -18.99 34.57 46.00 297.2241 49.39 -16.71 32.68 46.00 * 352.9433 52.70 -14.14 38.56 46.00 480.5276 41.84 -11.13 30.71 46.00 670.4893 43.18 -6.86 36.32 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dBuV dBuV/m dBuV/m dBuV/m dBuV/m dB 222.9502 53.56 -18.99 34.57 46.00 -11.43 297.2241 49.39 -16.71 32.68 46.00 -13.32 * 352.9433 52.70 -14.14 38.56 46.00 -7.44 480.5276 41.84 -11.13 30.71 46.00 -15.29 670.4893 43.18 -6.86 36.32 46.00 -9.68

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



Report No.: TB-FCC150911
Page: 21 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		180
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2402MHz		LINE TO SERVICE
Remark:	Only worse case is reported	The same	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		222.9502	40.62	-18.99	21.63	46.00	-24.37	peak
2		330.1949	35.59	-15.38	20.21	46.00	-25.79	peak
3		352.9433	41.29	-14.14	27.15	46.00	-18.85	peak
4	*	480.5276	49.26	-11.13	38.13	46.00	-7.87	peak
5		670.4893	38.11	-6.86	31.25	46.00	-14.75	peak
6		872.1832	36.04	-4.71	31.33	46.00	-14.67	peak

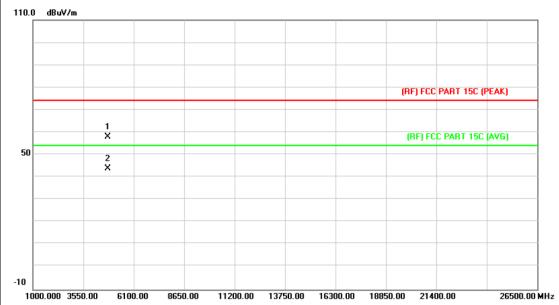
^{*:}Maximum data x:Over limit !:over margin



Page: 22 of 102

Above 1GHz(Only worse case is reported)

EUT:	Tablet PC	Model Name :	MOMO8 Quad		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V				
Ant. Pol.	Horizontal				
Test Mode:	TX GFSK Mode 2402MHz				
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	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.133	44.61	13.44	58.05	74.00	-15.95	peak
2	*	4804.561	30.30	13.44	43.74	54.00	-10.26	AVG



Report No.: TB-FCC150911 Page: 23 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	TX GFSK Mode 2402MHz		The state of the s			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

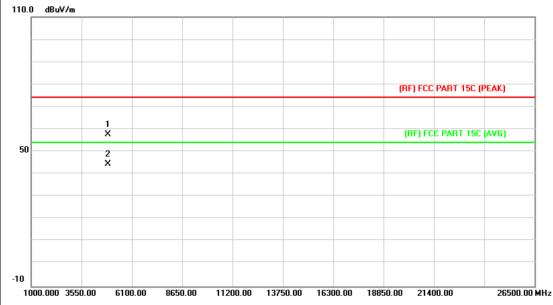


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4802.686	43.51	13.43	56.94	74.00	-17.06	peak
2	*	4803.325	30.42	13.44	43.86	54.00	-10.14	AVG



Page: 24 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal	W W				
Test Mode:	TX GFSK Mode 2441MHz		THE PARTY OF THE P			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

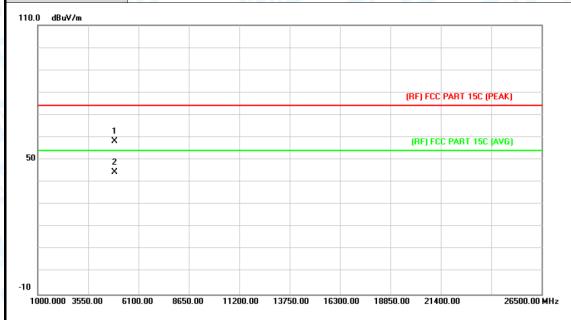


No.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.244	43.76	13.90	57.66	74.00	-16.34	peak
2	*	4882.843	30.49	13.90	44.39	54.00	-9.61	AVG



Report No.: TB-FCC150911
Page: 25 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Vertical	Vertical					
Test Mode:	TX GFSK Mode 2441MHz		THE PERSON NAMED IN				
Remark:	No report for the emission who prescribed limit.	No report for the emission which more than 10 dB below the prescribed limit.					



No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.514	44.24	13.90	58.14	74.00	-15.86	peak
2	*	4881.859	30.61	13.90	44.51	54.00	-9.49	AVG



Report No.: TB-FCC150911
Page: 26 of 102

EUT: Tablet PC Model Name: MOMO8 Quad
Temperature: 25°C Relative Humidity: 55%

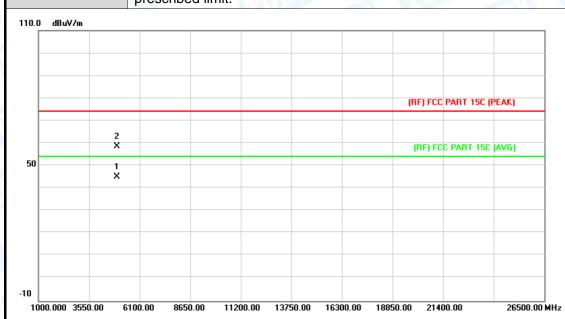
Tost Voltage: DC 3.7V

Test Voltage: DC 3.7V

Ant. Pol. Horizontal

Test Mode: TX GFSK Mode 2480MHz

Remark: No report for the emission which more than 10 dB below the prescribed limit.

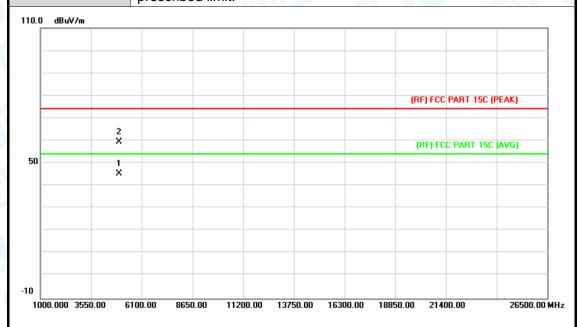


N	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4960.144	30.79	14.36	45.15	54.00	-8.85	AVG
2			4961.464	44.19	14.38	58.57	74.00	-15.43	peak



Report No.: TB-FCC150911
Page: 27 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	TX GFSK Mode 2480MHz		LINE TO SERVICE			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

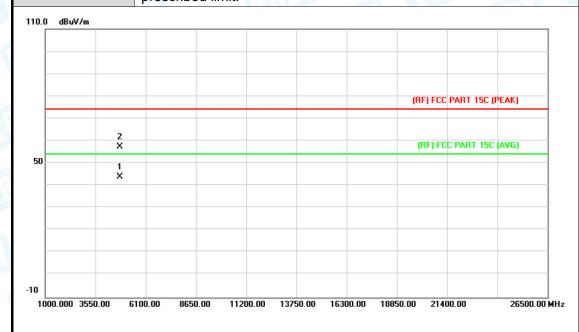


	No.	Mk.	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4960.465	30.87	14.36	45.23	54.00	-8.77	AVG
2			4960.630	45.11	14.36	59.47	74.00	-14.53	peak



Report No.: TB-FCC150911 Page: 28 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	TX π /4-DQPSK Mode 2402	MHz	a little			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					



N	o. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4802.992	30.29	13.43	43.72	54.00	-10.28	AVG
2		4804.531	43.89	13.44	57.33	74.00	-16.67	peak



Report No.: TB-FCC150911 Page: 29 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX π /4-DQPSK Mode 240	02MHz	LITTLE OF				
Remark:	No report for the emission prescribed limit.	No report for the emission which more than 10 dB below the prescribed limit.					



N	o. Mk	c. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4802.629	30.35	13.43	43.78	54.00	-10.22	AVG
2		4804.303	43.60	13.44	57.04	74.00	-16.96	peak



Page: 30 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad						
Temperature:	25℃	25℃ Relative Humidity: 55							
Test Voltage:	DC 3.7V	DC 3.7V							
Ant. Pol.	Horizontal								
Test Mode:	TX π /4-DQPSK Mode 2441	MHz	A LIVE						
Remark:	No report for the emission which more than 10 dB below the								
	prescribed limit.								

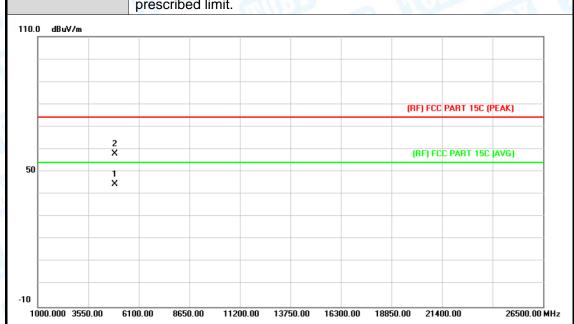


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4880.779	30.47	13.89	44.36	54.00	-9.64	AVG
2		4881.130	43.31	13.90	57.21	74.00	-16.79	peak



Report No.: TB-FCC150911 Page: 31 of 102

		4 1 2 4				
EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	TX π /4-DQPSK Mode 2441	MHz	a Limit			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit					

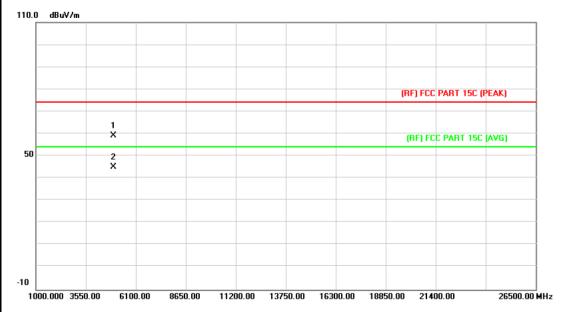


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.741	30.60	13.90	44.50	54.00	-9.50	AVG
2		4882.849	43.98	13.90	57.88	74.00	-16.12	peak



Page: 32 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad						
Temperature:	25℃	Relative Humidity:	55%						
Test Voltage:	DC 3.7V	DC 3.7V							
Ant. Pol.	Horizontal								
Test Mode:	TX π /4-DQPSK Mode 2480N	ИНz	LIU.						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.								



No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4958.803	44.77	14.35	59.12	74.00	-14.88	peak
2	*	4960.618	30.79	14.36	45.15	54.00	-8.85	AVG



Page: 33 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad						
Temperature:	25℃	Relative Humidity:	55%						
Test Voltage:	DC 3.7V	DC 3.7V							
Ant. Pol.	Vertical	Vertical							
Test Mode:	TX π /4-DQPSK Mode 2480M	Hz	LITTLE OF						
Remark:	No report for the emission which more than 10 dB below the								
	prescribed limit.								

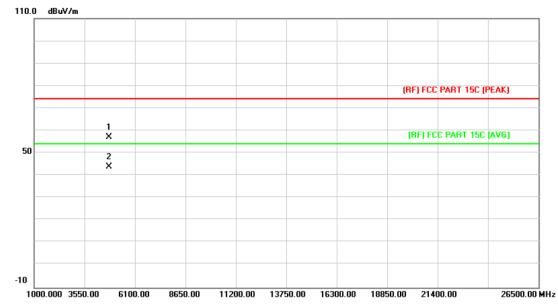


No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.550	43.98	14.36	58.34	74.00	-15.66	peak
2	*	4960.507	31.02	14.36	45.38	54.00	-8.62	AVG



Page: 34 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V							
Ant. Pol.	Horizontal							
Test Mode:	TX 8-DPSK Mode 2402MHz		LINE TO					
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	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.667	43.57	13.44	57.01	74.00	-16.99	peak
2	*	4804.597	30.42	13.44	43.86	54.00	-10.14	AVG



Report No.: TB-FCC150911 Page: 35 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Vertical	A PLANT						
Test Mode:	TX 8-DPSK Mode 2402MI	Hz	THE PERSON NAMED IN					
Remark:	No report for the emission	No report for the emission which more than 10 dB below the						
	prescribed limit.							



No	. Mk	. Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.901	44.23	13.44	57.67	74.00	-16.33	peak
2	*	4804.387	30.28	13.44	43.72	54.00	-10.28	AVG



Report No.: TB-FCC150911
Page: 36 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	Test Mode: TX 8-DPSK Mode 2441MHz					
Remark:	emark: No report for the emission which more than 10 dB below the					
	prescribed limit.					

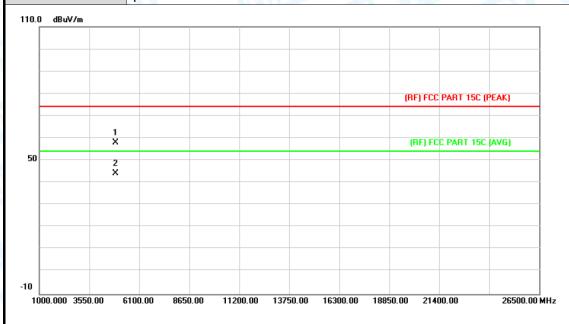


N	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4882.126	43.46	13.90	57.36	74.00	-16.64	peak
2	7	k	4882.801	30.41	13.90	44.31	54.00	-9.69	AVG



Report No.: TB-FCC150911 Page: 37 of 102

EUT:	Tablet PC	MOMO8 Quad					
Temperature:	25℃ Relative Humidity: 55%						
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX 8-DPSK Mode 2441MHz		A LIVE				
Remark:	No report for the emission v	No report for the emission which more than 10 dB below the					
	prescribed limit.						

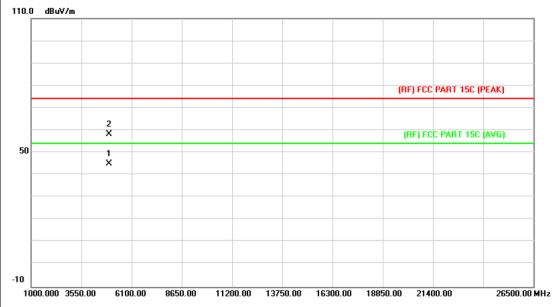


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.145	44.16	13.90	58.06	74.00	-15.94	peak
2	*	4882.147	30.39	13.90	44.29	54.00	-9.71	AVG



Page: 38 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	TX 8-DPSK Mode 2480MHz		LITTLE OF			
Remark:	No report for the emission which more than 10 dB below the prescribed limit.					

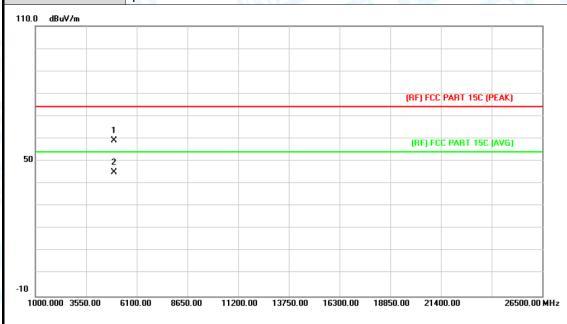


No	o. Mk	. Freq.	_		Measure- ment	Limit	Over	1
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.613	30.73	14.36	45.09	54.00	-8.91	AVG
2		4961.431	43.87	14.38	58.25	74.00	-15.75	peak



Report No.: TB-FCC150911 Page: 39 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX 8-DPSK Mode 2480MHz	(U) 32	LINE TO SERVICE				
Remark:	No report for the emission wh	No report for the emission which more than 10 dB below the					
	prescribed limit.						



N	lo. M	k. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.472	44.73	14.36	59.09	74.00	-14.91	peak
2	*	4960.702	30.70	14.36	45.06	54.00	-8.94	AVG



Report No.: TB-FCC150911 Page: 40 of 102

6. Restricted Bands Requirement

6.1 Test Standard and Limit

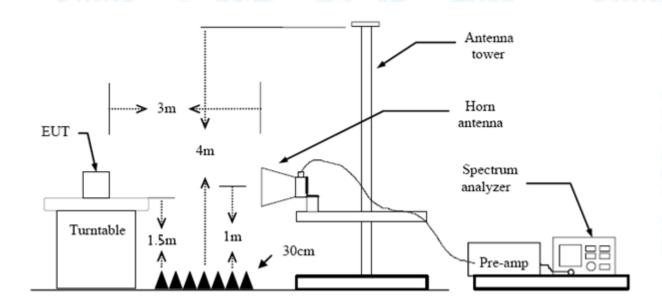
6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dE	BuV/m)(at 3m)
Band (MHz)	Peak	Average
2310 ~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-FCC150911 Page: 41 of 102

(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 AVG 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.

6.5 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=10 Hz with Peak Detector for Average Values.

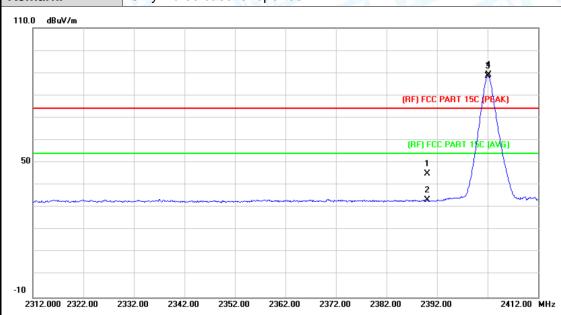
All restriction bands have been tested, only the worst case is reported.



Report No.: TB-FCC150911
Page: 42 of 102

(1) Radiation Test

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal		THE PERSON NAMED IN				
Test Mode:	TX GFSK Mode 2402MHz						
Remark:	Only worse case is reported	THU:					

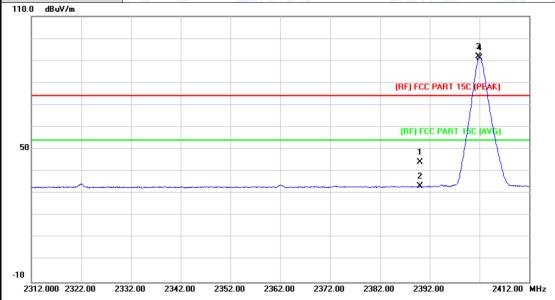


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.30	0.77	45.07	74.00	-28.93	peak
2		2390.000	32.55	0.77	33.32	54.00	-20.68	AVG
3	*	2402.100	87.60	0.82	88.42	Fundamenta	I Frequency	AVG
4	X	2402.200	88.19	0.82	89.01	Fundamenta	l Frequency	peak



Page: 43 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage: DC 3.7V								
Ant. Pol.	Vertical							
Test Mode:	TX GFSK Mode 2402MHz	Ulling	I WILL					
Remark:	Remark: Only worse case is reported							
110.0 dBuV/m								

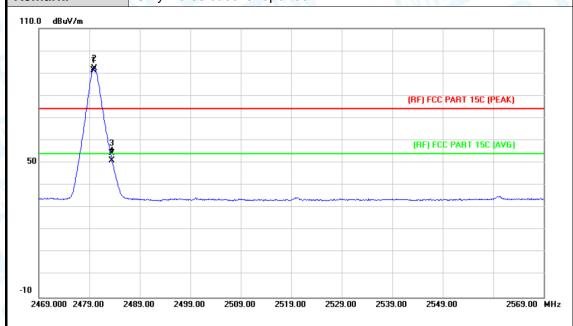


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.49	0.77	44.26	74.00	-29.74	peak
2		2390.000	32.46	0.77	33.23	54.00	-20.77	AVG
3	Χ	2401.800	91.05	0.82	91.87	Fundamental	Frequency	peak
4	*	2402.100	90.48	0.82	91.30	Fundamenta	l Frequency	AVG



Report No.: TB-FCC150911
Page: 44 of 102

		A Mark William Control of the Contro	
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2480 MHz	CHILDREN .	1 Million
Remark:	Only worse case is reported		



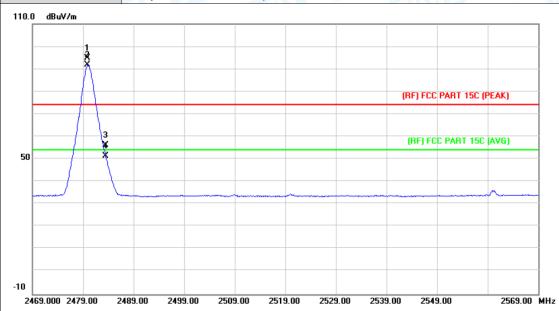
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.900	90.10	1.15	91.25	Fundamental	Frequency	peak
2	*	2480.000	91.02	1.15	92.17	Fundamental	Frequency	AVG
3		2483.500	53.06	1.17	54.23	74.00	-19.77	peak
4		2483.500	50.01	1.17	51.18	54.00	-2.82	AVG



Report No.: TB-FCC150911
Page: 45 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	TX GFSK Mode 2480 MHz		LINE TO SERVICE			
Domorle	Outrous sees is non-outed	III II III II II II II II II II II II I				

Remark: Only worse case is reported

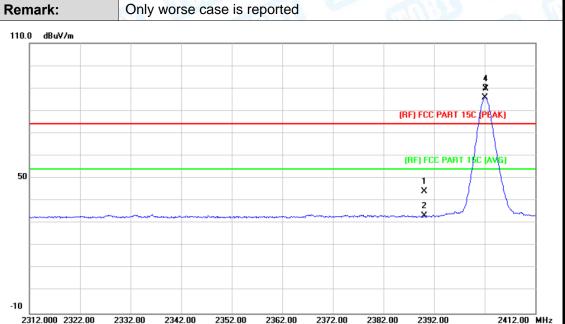


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.900	93.68	1.15	94.83	Fundamental Frequency		peak
2	*	2479.900	90.63	1.15	91.78	Fundamental	Frequency	AVG
3		2483.500	54.90	1.17	56.07	74.00	-17.93	peak
4		2483.500	50.14	1.17	51.31	54.00	-2.69	AVG



Report No.: TB-FCC150911
Page: 46 of 102

EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25°CRelative Humidity:55%Test Voltage:DC 3.7VAnt. Pol.HorizontalTest Mode:TX π /4-DQPSK Mode 2402MHz

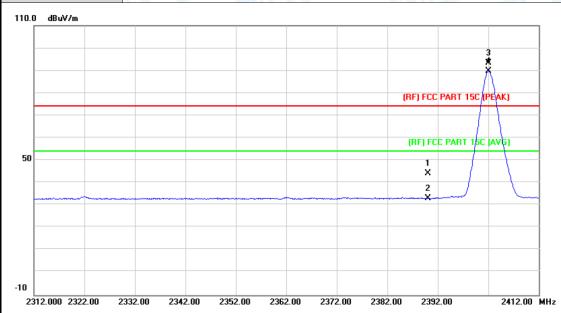


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.37	0.77	44.14	74.00	-29.86	peak
2		2390.000	32.46	0.77	33.23	54.00	-20.77	AVG
3	*	2402.100	85.10	0.82	85.92	Fundamental Frequency		AVG
4	Χ	2402.200	88.90	0.82	89.72	Fundamenta	l Frequency	peak



Page: 47 of 102

EUT:	Tablet PC	MOMO8 Quad						
Temperature:	25℃	25℃ Relative Humidity: 55%						
Test Voltage:	DC 3.7V							
Ant. Pol.	Vertical							
Test Mode:	TX π /4-DQPSK Mode 2402MI	Hz	I HILL					
Remark: Only worse case is reported								

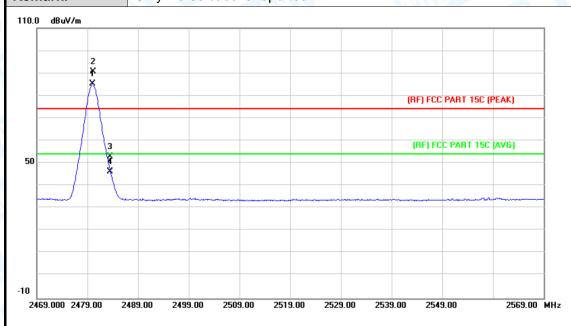


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.31	0.77	44.08	74.00	-29.92	peak
2		2390.000	32.31	0.77	33.08	54.00	-20.92	AVG
3	Χ	2402.000	92.66	0.82	93.48	Fundamental Frequency		peak
4	*	2402.100	88.87	0.82	89.69	Fundamenta	Frequency	AVG



Report No.: TB-FCC150911
Page: 48 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad					
Temperature:	25℃	Relative Humidity: 55%						
Test Voltage:	DC 3.7V	DC 3.7V						
Ant. Pol.	Horizontal							
Test Mode:	TX π /4-DQPSK Mode 2480M	TX π /4-DQPSK Mode 2480MHz						
Remark:	Only worse case is reported							

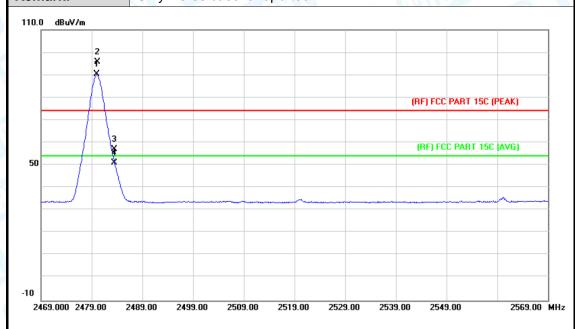


No	No. Mk. F		Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2480.000	84.07	1.15	85.22	Fundamental Frequency		AVG
2	X	2480.200	89.48	1.15	90.63	Fundamental	Frequency	peak
3		2483.500	51.71	1.17	52.88	74.00	-21.12	peak
4		2483.500	45.16	1.17	46.33	54.00	-7.67	AVG



Report No.: TB-FCC150911 Page: 49 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V						
Ant. Pol.	Vertical						
Test Mode:	TX π /4-DQPSK Mode 2480MHz						
Remark:	Only worse case is reported		73				

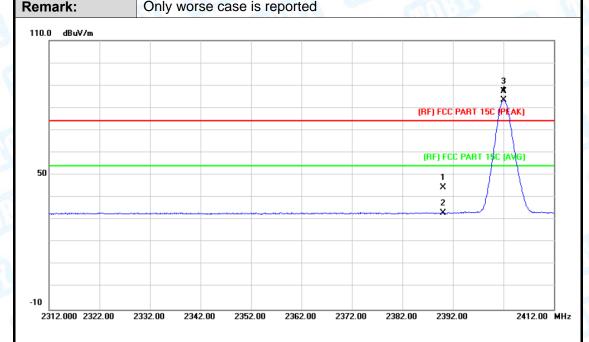


No	No. Mk. F		Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2480.000	89.09	1.15	90.24	Fundamental Frequency		AVG
2	X	2480.200	94.51	1.15	95.66	Fundamental	Frequency	peak
3		2483.500	55.87	1.17	57.04	74.00	-16.96	peak
4		2483.500	49.89	1.17	51.06	54.00	-2.94	AVG



Report No.: TB-FCC150911
Page: 50 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad				
Temperature:	25°C Relative Humidity: 55%						
Test Voltage:	DC 3.7V						
Ant. Pol.	Horizontal						
Test Mode:	TX 8-DPSK Mode 2402MHz						
Domark:	Only worse case is reported		6 N				

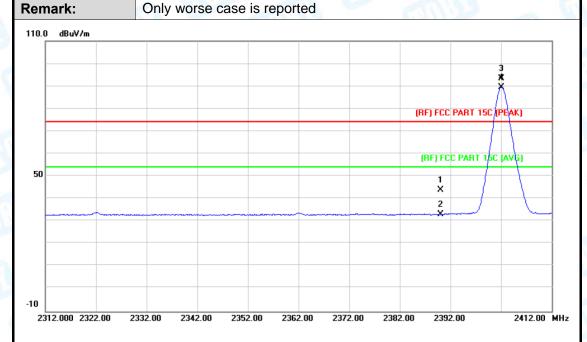


No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.60	0.77	44.37	74.00	-29.63	peak
2		2390.000	32.21	0.77	32.98	54.00	-21.02	AVG
3	Χ	2402.100	86.63	0.82	87.45	Fundamental Frequency		peak
4	*	2402.100	82.52	0.82	83.34	Fundament	al Frequency	AVG



Report No.: TB-FCC150911
Page: 51 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	nm -	
Ant. Pol.	Vertical		
Test Mode:	TX 8-DPSK Mode 2402MHz	Million	I ROLL
D	0-1	47.15	

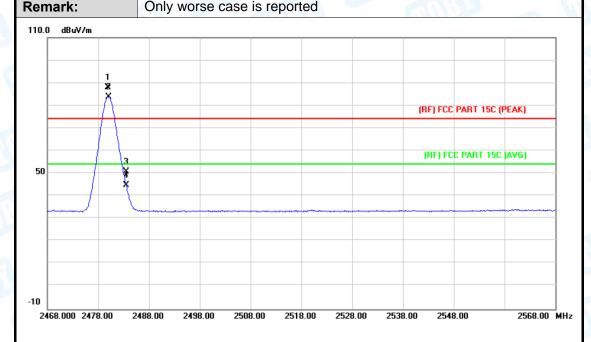


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.09	0.77	43.86	74.00	-30.14	peak
2		2390.000	32.33	0.77	33.10	54.00	-20.90	AVG
3	X	2402.100	92.68	0.82	93.50	Fundamental	Frequency	peak
4	*	2402.100	88.68	0.82	89.50	Fundamental	Frequency	AVG



Report No.: TB-FCC150911
Page: 52 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	nm e	
Ant. Pol.	Horizontal		
Test Mode:	TX 8-DPSK Mode 2480MHz	CHILL ST.	I ROLL
Domark:	Only worse case is reported		- C



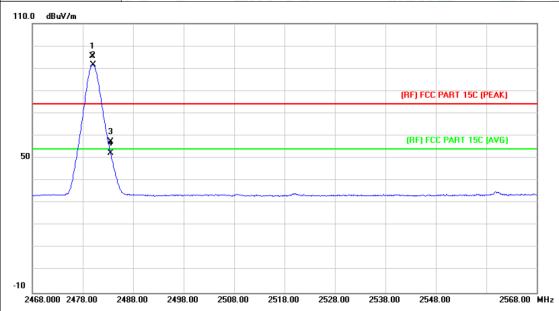
No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.900	86.71	1.15	87.86	Fundamental	Frequency	peak
2	*	2480.000	82.72	1.15	83.87	Fundamental Frequency		AVG
3		2483.500	49.51	1.17	50.68	74.00	-23.32	peak
4		2483.500	43.68	1.17	44.85	54.00	-9.15	AVG



Report No.: TB-FCC150911
Page: 53 of 102

EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25°CRelative Humidity:55%Test Voltage:DC 3.7VAnt. Pol.VerticalTest Mode:TX 8-DPSK Mode 2480MHz

Remark: Only worse case is reported

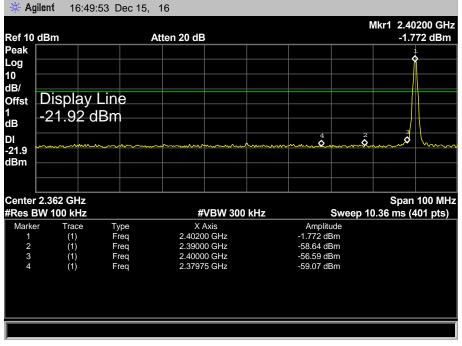


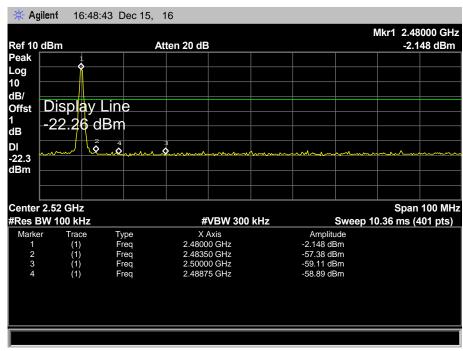
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.900	94.35	1.15	95.50	Fundamental	Frequency	peak
2	*	2480.000	90.38	1.15	91.53	Fundamental	Frequency	AVG
3		2483.500	56.08	1.17	57.25	74.00	-16.75	peak
4		2483.500	51.19	1.17	52.36	54.00	-1.64	AVG



(2) Conducted Test

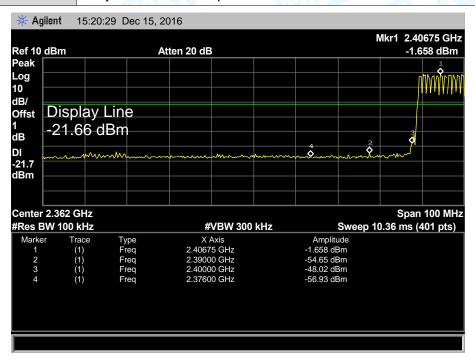
EUT:	Tablet PC	Model Name :	MOMO8 Quad		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V				
Test Mode:	TX GFSK Mode 2402MHz/2480 MHz				
Remark:	nark: Only worse case is reported				

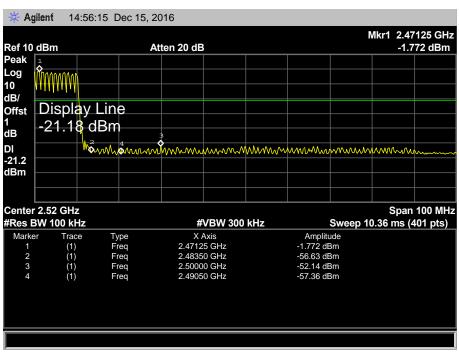






EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25°CRelative Humidity:55%Test Voltage:DC 3.7VTest Mode:GFSK Hopping ModeRemark:Only worse case is reported

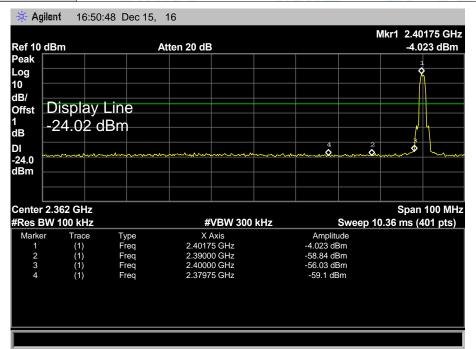


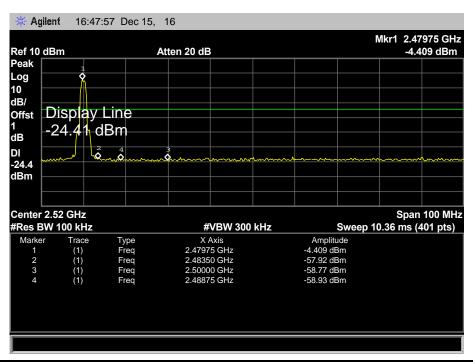




Report No.: TB-FCC150911 Page: 56 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V				
Test Mode:	TX π /4-DQPSK Mode 2402MHz/2480 MHz				
Remark:	Only worse case is reported				







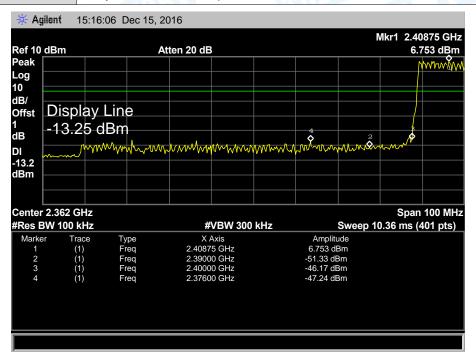
 EUT:
 Tablet PC
 Model Name :
 MOMO8 Quad

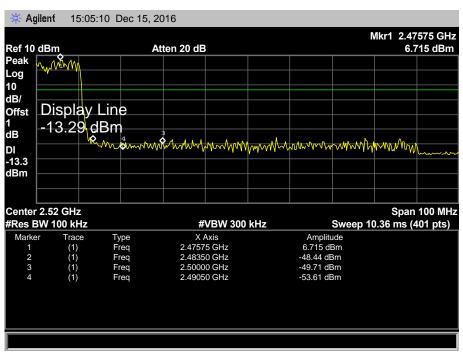
 Temperature:
 25°C
 Relative Humidity:
 55%

 Test Voltage:
 DC 3.7V

 Test Mode:
 π /4-DQPSK Hopping Mode

 Remark:
 Only worse case is reported





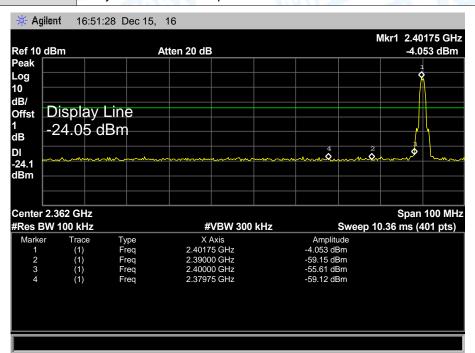


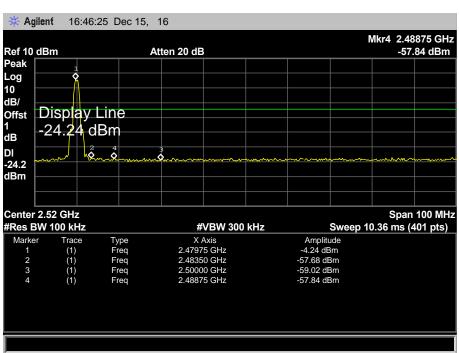
EUT: Tablet PC Model Name: MOMO8 Quad
Temperature: 25℃ Relative Humidity: 55%

Test Voltage: DC 3.7V

Test Mode: TX 8-DPSK Mode 2402MHz/2480 MHz

Remark: Only worse case is reported







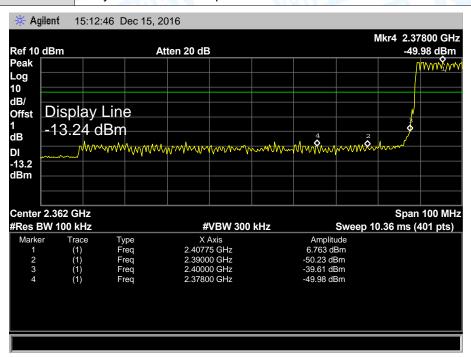
 EUT:
 Tablet PC
 Model Name :
 MOMO8 Quad

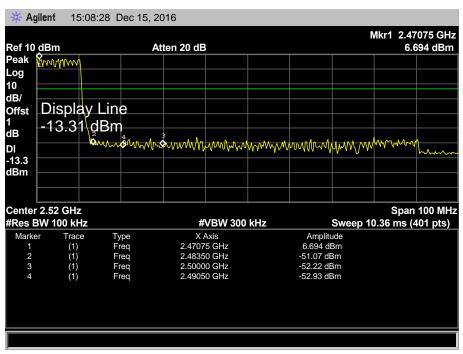
 Temperature:
 25 °C
 Relative Humidity:
 55%

 Test Voltage:
 DC 3.7V

 Test Mode:
 8-DPSK Hopping Mode

 Remark:
 Only worse case is reported







Report No.: TB-FCC150911 Page: 60 of 102

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

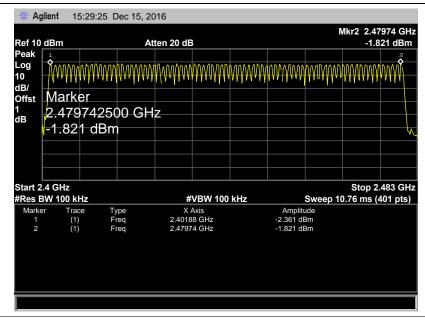


Report No.: TB-FCC150911 Page: 61 of 102

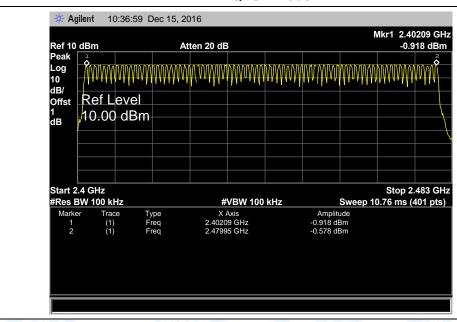
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	m Vi	
Test Mode:	Hopping Mode		

Frequency Range	Quantity of Hopping Channel	Limit
2402MU- 2400MU-	79	\4E
2402MHz~2480MHz	70	>15

GFSK Mode

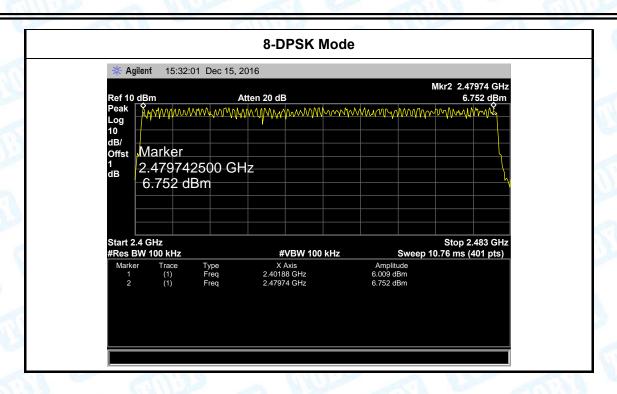


π /4-DQPSK Mode





Page: 62 of 102





Page: 63 of 102

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	0.4.000
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 average time of occupancy on any channel within the Period can be calculated with formulas:

 ${Total of Dwell} = {Pulse Time} * (1600 / X) / {Number of Hopping Frequency} * {Period} = 0.4s * {Number of Hopping Frequency}$

Note: X=2 or 4 or 6 (1DH1=2, 1DH3=4, 1DH5=6. 2DH1=2, 2DH3=4, 2DH5=6. 3DH1=2,3DH3=4, 3DH5=6)

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

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



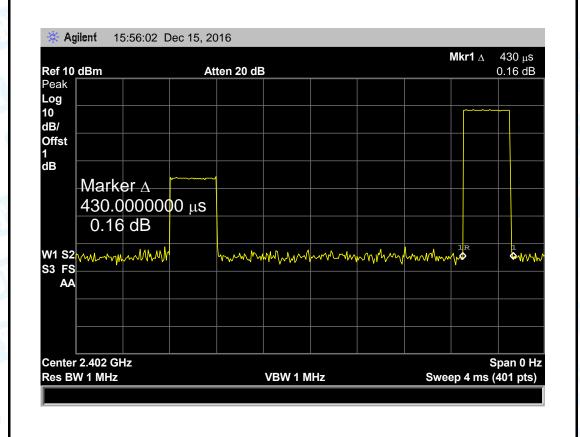
Page: 64 of 102

8.5 Test Data

EUT:	Tablet PC	Tablet PC		Model Name :	
Temperature:	25℃		Relative Hum	idity:	55%
Test Voltage:	DC 3.7V			16.30	100
Test Mode:	Hopping Mod	de (GFSK 1DH1)	CHILL ST.		I HILL
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Pocult
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	0.430	137.60			
2441	0.430	137.60	31.60	400	PASS
2480	0.430	137.60			
Note: Dwell the	a Dulas Tissa	(ma) (1600 2	. 70)04 0		

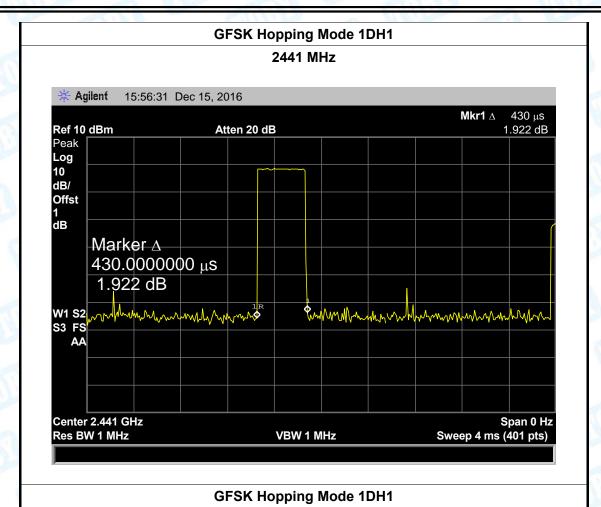
Note: Dwell time=Pulse Time (ms) \times (1600 \div 2 \div 79) \times 31.6

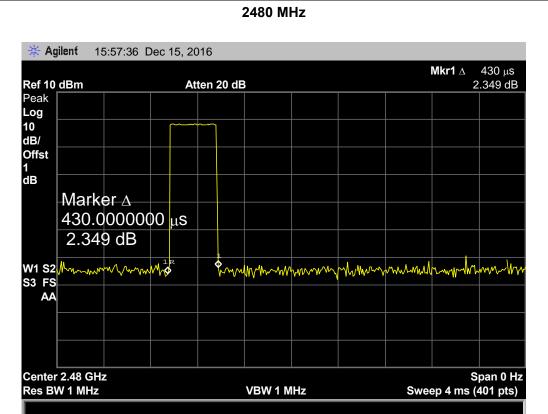
GFSK Hopping Mode 1DH1





65 of 102 Page:







Report No.: TB-FCC150911 Page: 66 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		20.0

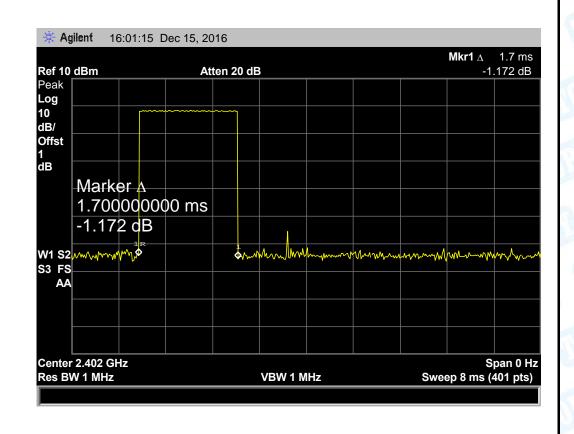
Test Voltage: DC 3.7V

Test Mode: Hopping Mode (GFSK 1DH3)

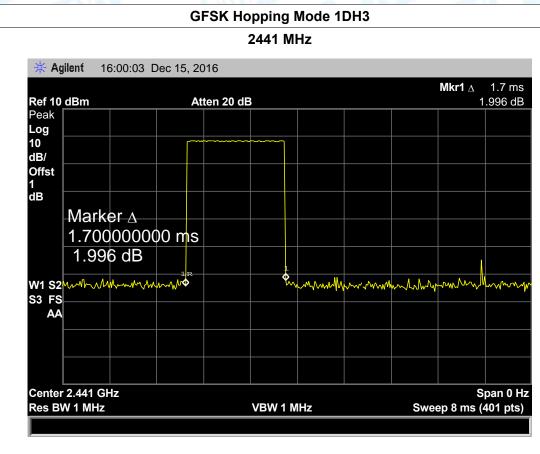
rest mode.	1 lopping ivi	ode (el elt ibile)			
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	1.700	272.00			
2441	1.700	272.00	31.60	400	PASS
2480	1.700	272.00			

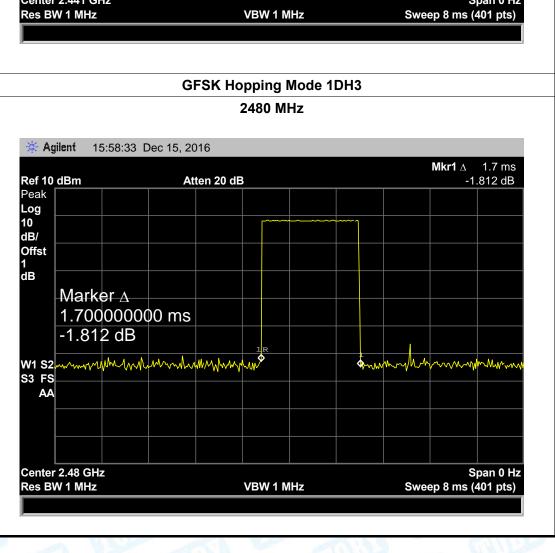
Note: Dwell time=Pulse Time (ms) \times (1600 \div 4 \div 79) \times 31.6

GFSK Hopping Mode 1DH3











2441

2480

Report No.: TB-FCC150911

PASS

Page: 68 of 102

EUT:	Tablet PC	- 61	Model Name :		MOMO8 Quad
Temperature	: 25 ℃		Relative Humidity:		55%
Test Voltage:	DC 3.7V	The same of	VI.	-	
Test Mode:	Hopping M	ode (GFSK 1DH5)		Ring	
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	2.970	316.80			

Note: Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6

2.970

2.970

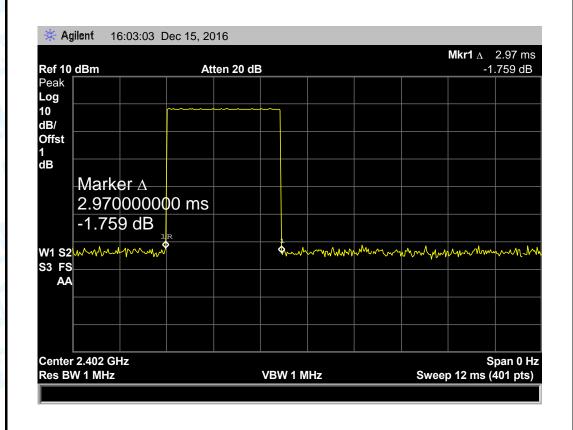
GFSK Hopping Mode 1DH5

31.60

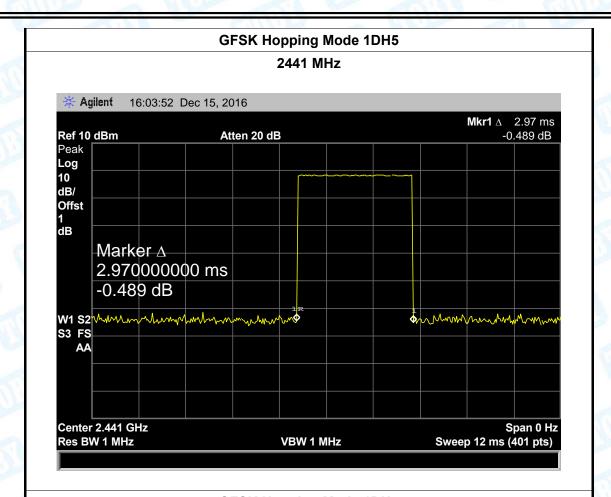
400

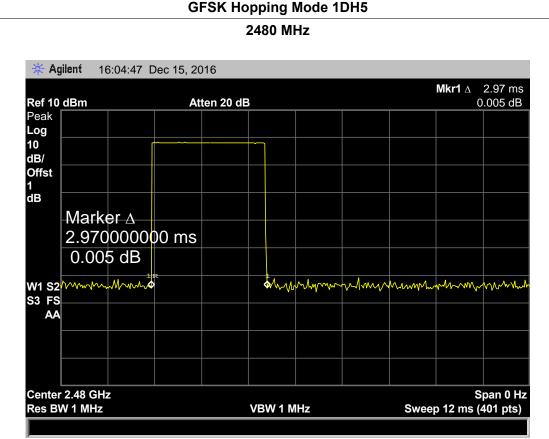
316.80

316.80











Report No.: TB-FCC150911 Page: 70 of 102

EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25℃Relative Humidity:55%

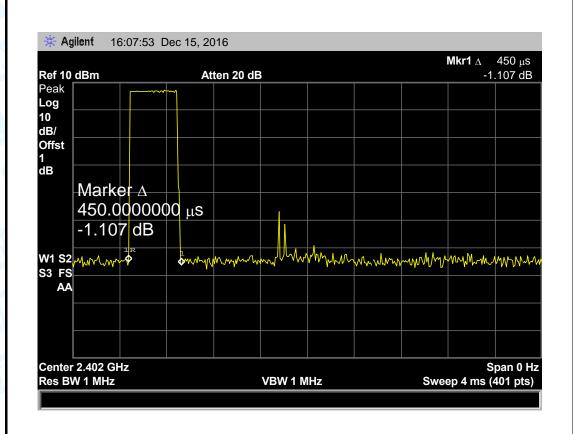
Test Voltage: DC 3.7V

Test Mode: Hopping Mode (π /4-DQPSK 2DH1)

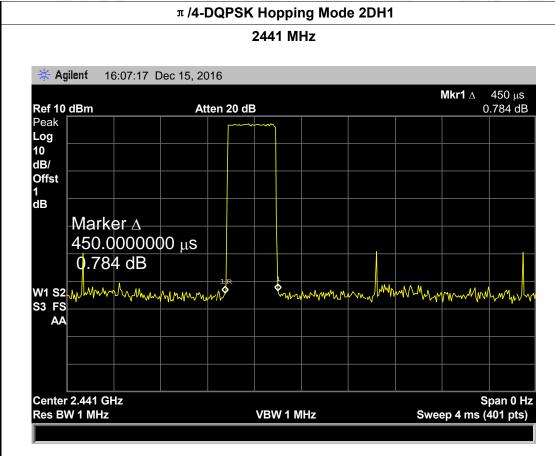
1001 1110401	riopping meas (, , , , , , , , , , , , , , , , , ,				
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	0.450	144.00			
2441	0.450	144.00	31.60	400	PASS
2480	0.450	144.00			

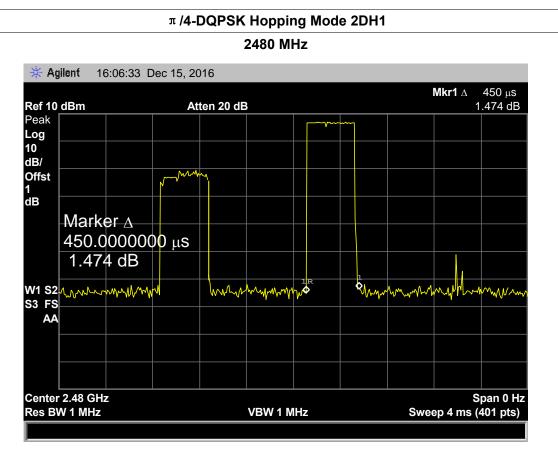
Note: Dwell time=Pulse Time (ms) \times (1600 \div 2 \div 79) \times 31.6

π /4-DQPSK Hopping Mode 2DH1











Report No.: TB-FCC150911
Page: 72 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%

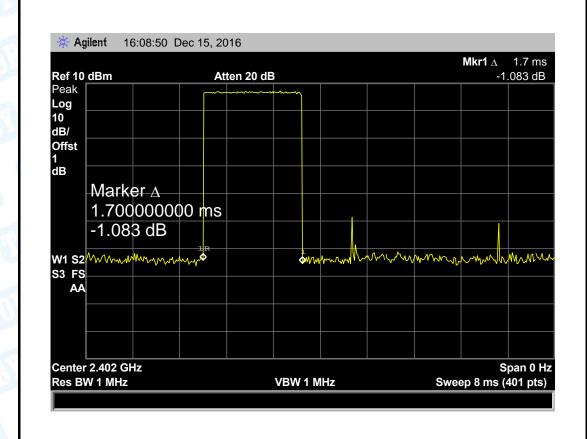
Test Voltage: DC 3.7V

Test Mode: Hopping Mode (π /4-DQPSK 2DH3)

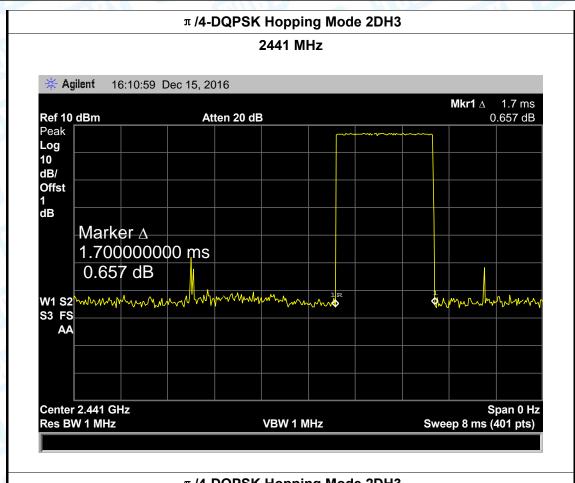
					6", 11, 1, 1, 1, 2, 30
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Popult
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	1.700	272.00			
2441	1.700	272.00	31.60	400	PASS
2480	1.700	272.00			

Note: Dwell time=Pulse Time (ms) \times (1600 \div 4 \div 79) \times 31.6

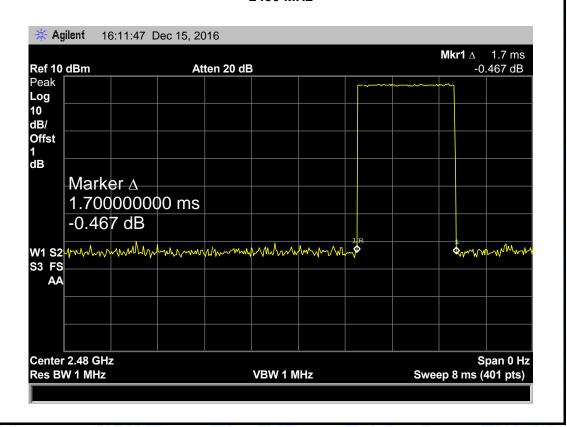
π /4-DQPSK Hopping Mode 2DH3







π /4-DQPSK Hopping Mode 2DH3 2480 MHz



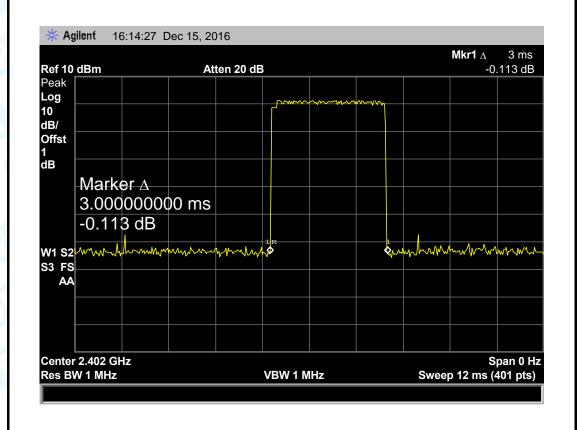


Page: 74 of 102

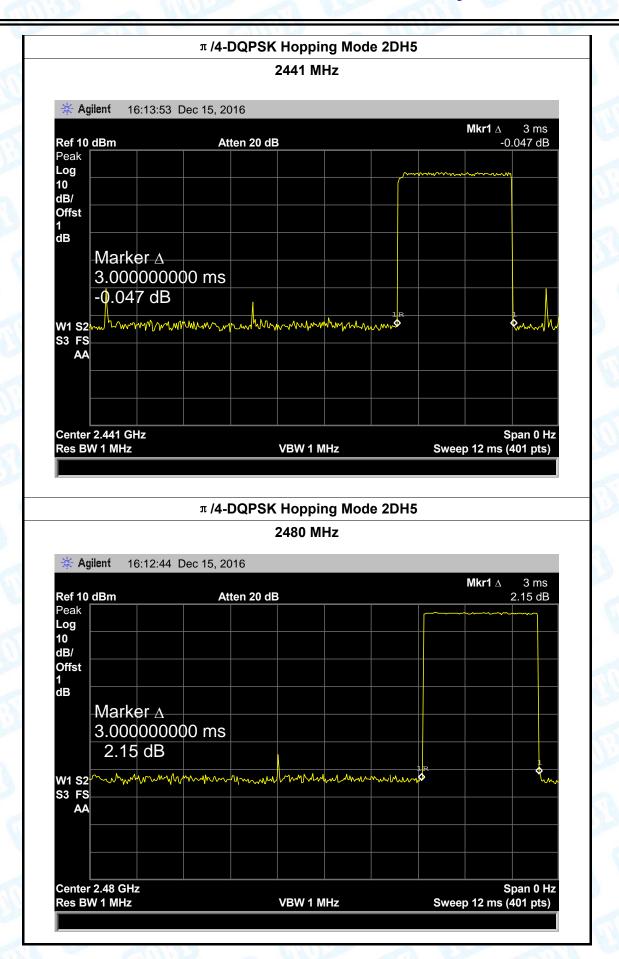
EUT:	Tablet PC	Tablet PC		Model Name :	
Temperature	: 25 ℃		Relative Hum	idity:	55%
Test Voltage:	DC 3.7V	N. C.		-	197
Test Mode:	Hopping M	lode (π/4-DQPSK	2DH5)	H.D.	
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	3.000	320.00			
2441	3.000	320.00	31.60	400	PASS
2480	3.000	320.00			

Note: Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6

π /4-DQPSK Hopping Mode 2DH5









Page: 76 of 102

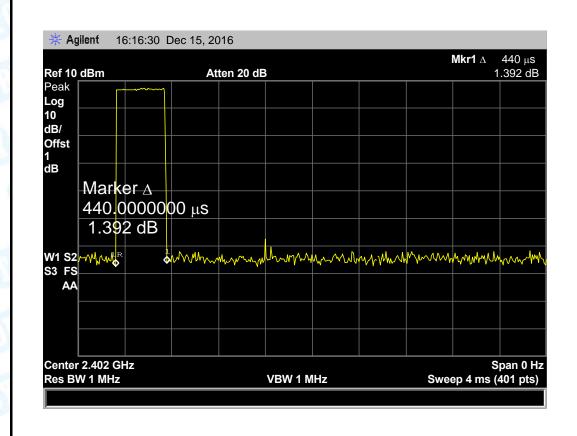
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	(1111)	

Test Mode: Hopping Mode (8-DPSK 3DH1)

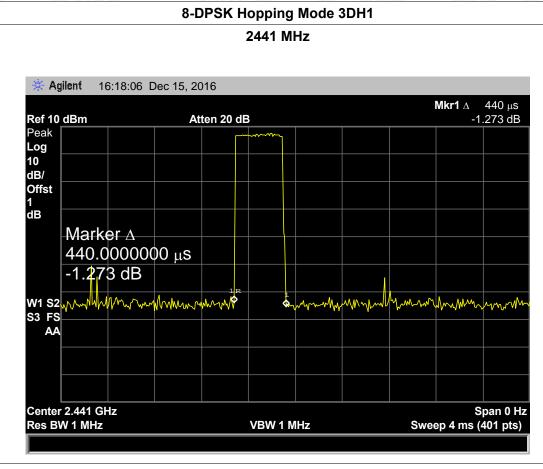
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	0.440	140.80			
2441	0.440	140.80	31.60	400	PASS
2480	0.440	140.80			

Note: Dwell time=Pulse Time (ms) \times (1600 \div 2 \div 79) \times 31.6

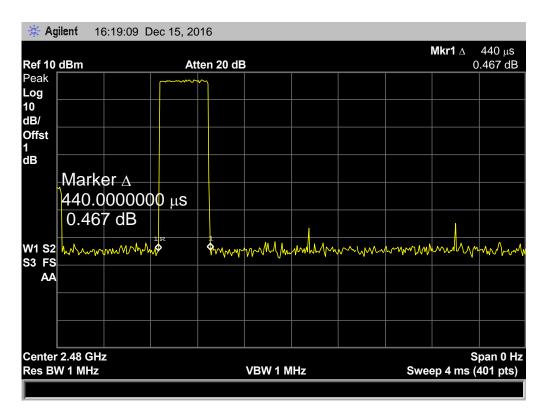
8-DPSK Hopping Mode 3DH1







8-DPSK Hopping Mode 3DH1





2480

Report No.: TB-FCC150911

Page: 78 of 102

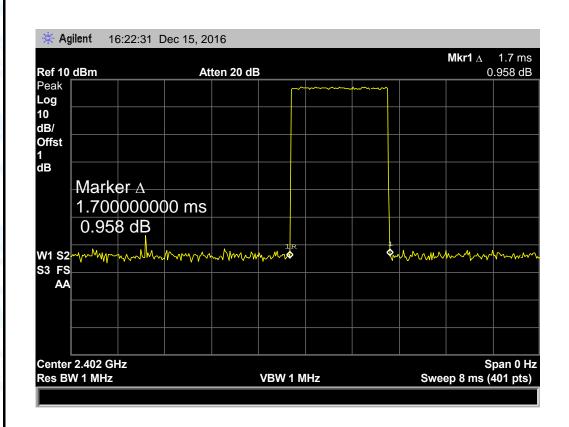
EUT:	Tablet PC	Tablet PC		Model Name :	
Temperature:	25℃		Relative Hum	idity:	55%
Test Voltage:	DC 3.7V	N. C.	V		18
Test Mode:	Hopping M	ode (8-DPSK 3DH	l3)	Ring	
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Result
2402	1.700	272.00			
2441	1.700	272.00	31.60	400	PASS

Note: Dwell time=Pulse Time (ms) \times (1600 \div 4 \div 79) \times 31.6

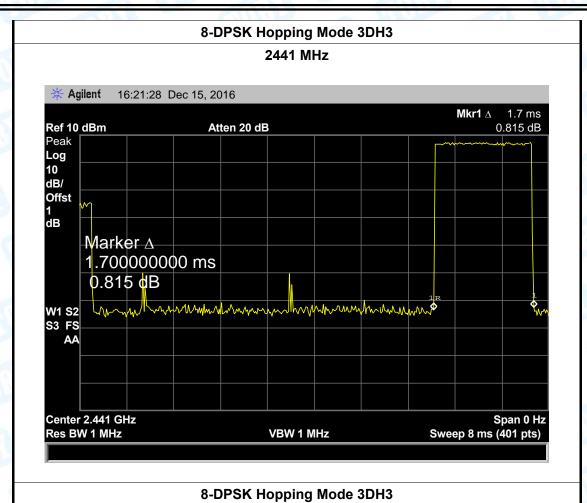
1.700

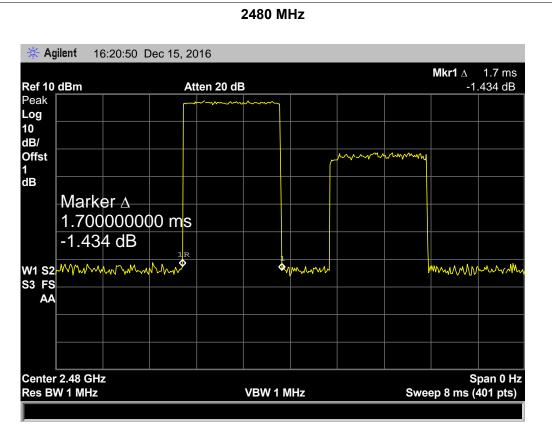
8-DPSK Hopping Mode 3DH3

272.00











2480

Report No.: TB-FCC150911

Page: 80 of 102

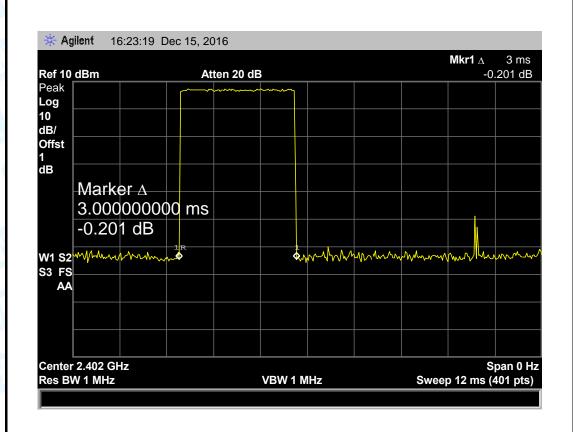
EUT:	Tablet PC	Tablet PC		Model Name :	
Temperature	: 25 ℃	25℃		idity:	55%
Test Voltage:	DC 3.7V	WW	V	-	18
Test Mode:	Hopping M	lode (8-DPSK 3DF	l5)	Alle	
Channel	Pulse Time	Total of Dwell	Period Time	Limit	Result
(MHz)	(ms)	(ms)	(s)	(ms)	Nesuit
2402	3.000	320.00			
2441	3.000	320.00	31.60	400	PASS

Note: Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6

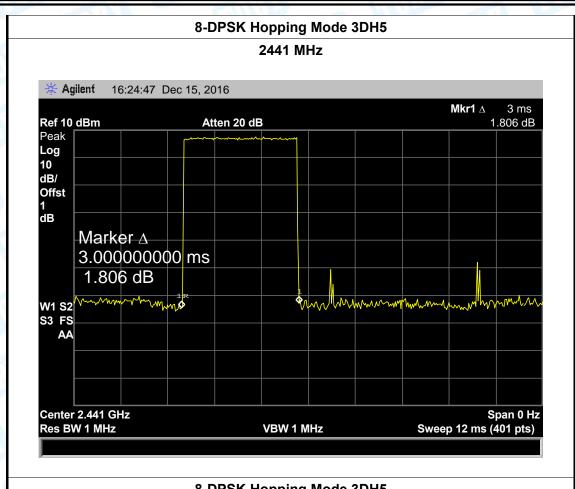
320.00

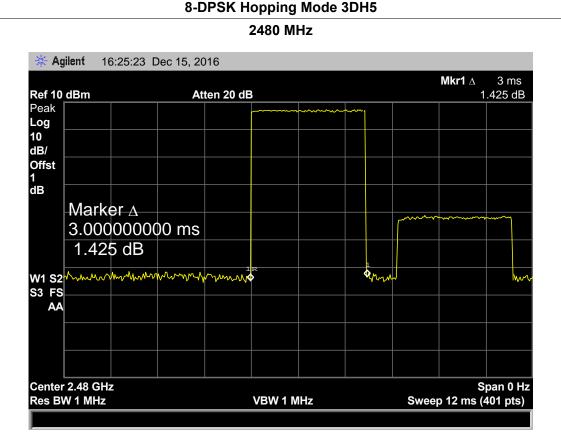
3.000

8-DPSK Hopping Mode 3DH5











Report No.: TB-FCC150911 Page: 82 of 102

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.

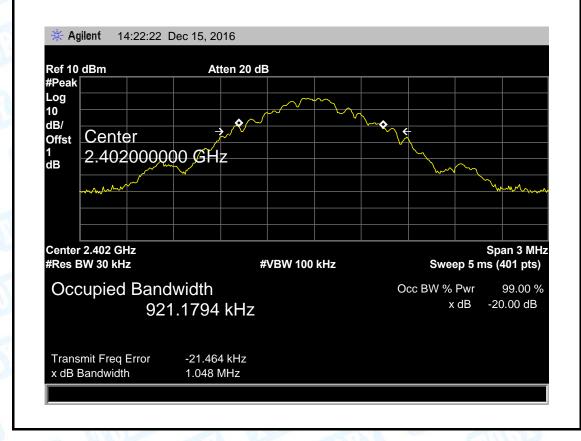


Page: 83 of 102

9.5 Test Data

EUT:	Tab	let PC	Model Name :	MOMO8 Quad
Temperature:	25°	C	Relative Humidity:	55%
Test Voltage:	DC	3.7V		
Test Mode:	TX	Mode (GFSK)	CHILLIAN TO THE	3 110
Channel frequer	ncy	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402		921.1794	1048.00	698.67
2441		924.7729	1048.00	698.67
2480		933.3197	1051.00	700.67

GFSK TX Mode





GFSK TX Mode 2441 MHz * Agilent 14:21:39 Dec 15, 2016 Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Center Offst 2.441000000 GHz dΒ Center 2.441 GHz Span 3 MHz #Res BW 30 kHz **#VBW 100 kHz** Sweep 5 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -20.00 dB 924.7729 kHz x dB Transmit Freq Error -21.725 kHz x dB Bandwidth 1.048 MHz

GFSK TX Mode

Agilent 14:21:05 Dec 15, 2016 Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Offst Center



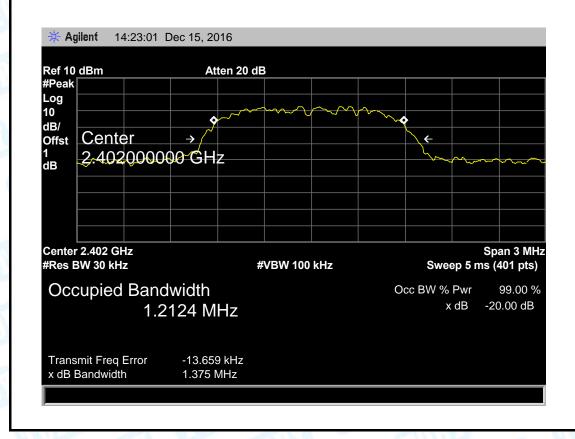


Page: 85 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad	
Temperature:	25℃	Relative Humidity:	55%	
Test Voltage:	DC 3.7V			
Test Mode:	TX Mode (π/4-DQPSK)			

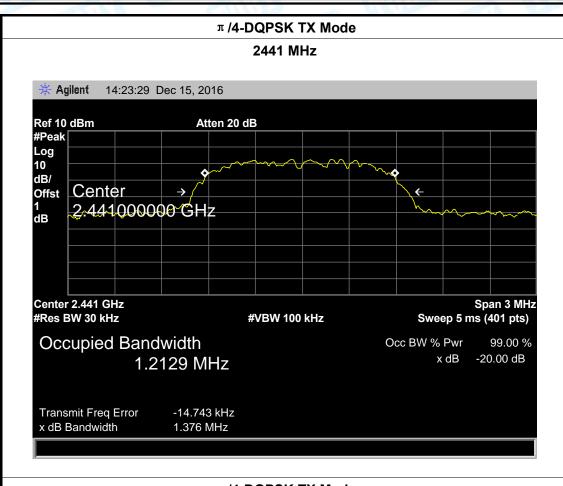
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1212.40	1375.00	916.67
2441	1212.90	1376.00	917.33
2480	1214.50	1374.00	916.00

π/4-DQPSK TX Mode

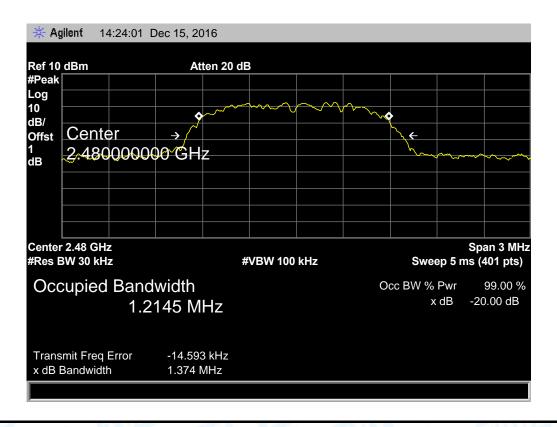




Report No.: TB-FCC150911 Page: 86 of 102







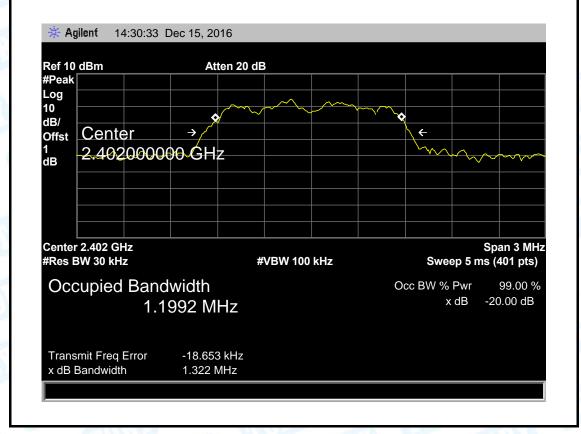


Page: 87 of 102

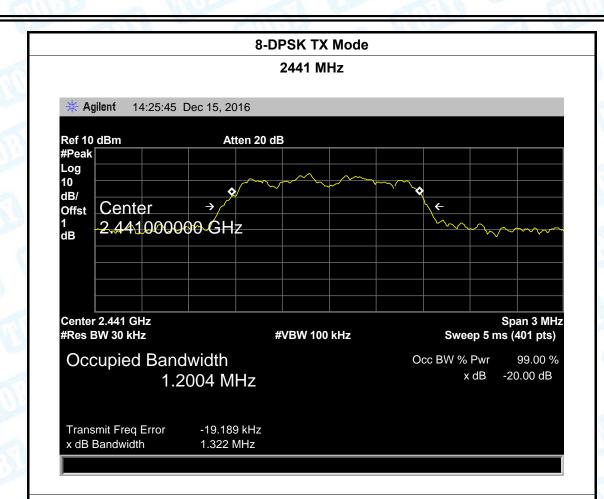
EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX Mode (8-DPSK)	em:D	

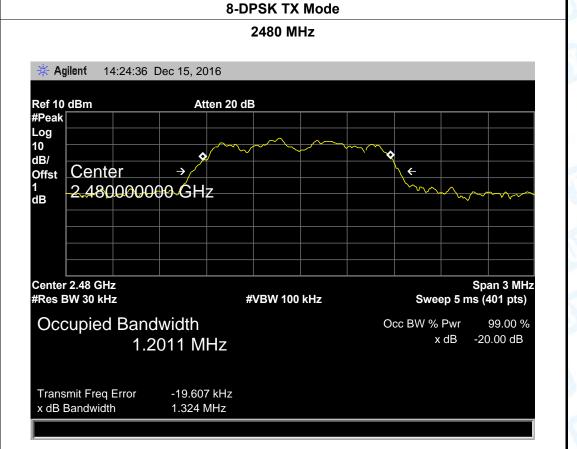
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1199.20	1322.00	881.33
2441	1200.40	1322.00	881.33
2480	1201.10	1344.00	896.00

8-DPSK TX Mode











Report No.: TB-FCC150911 Page: 89 of 102

EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25°CRelative Humidity:55%Test Voltage:DC 3.7V

Test Mode: Hopping Mode (GFSK)

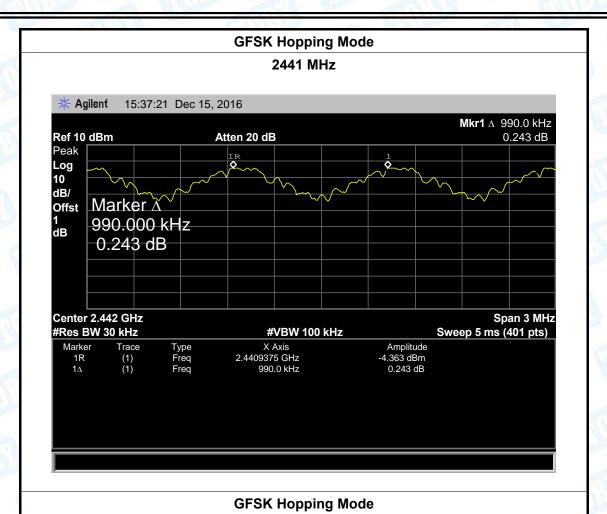
11 0		
Channel frequency	Separation Read Value	Separation Limit
(MHz)	(kHz)	(kHz)
2402	1095.00	698.67
2441	990.00	698.67
2480	997.50	700.67

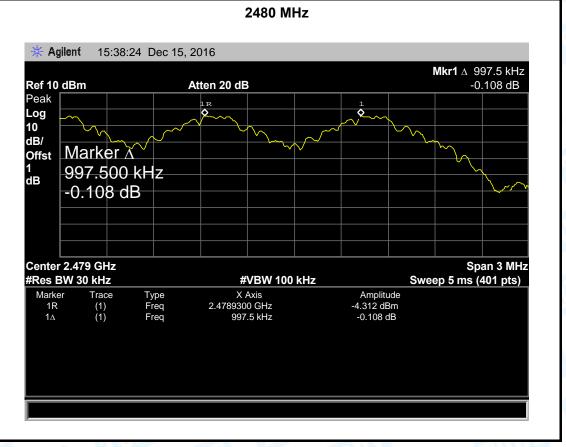
GFSK Hopping Mode













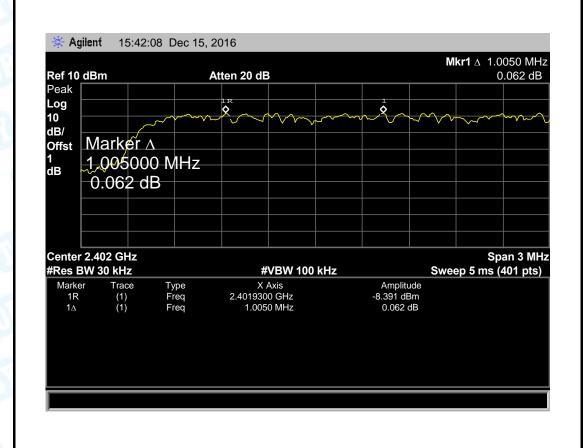
Report No.: TB-FCC150911 Page: 91 of 102

EUT:	Tablet PC	Model Name :	MOMO8 Quad
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	THE CALL	

Test Mode: Hopping Mode (π /4-DQPSK)

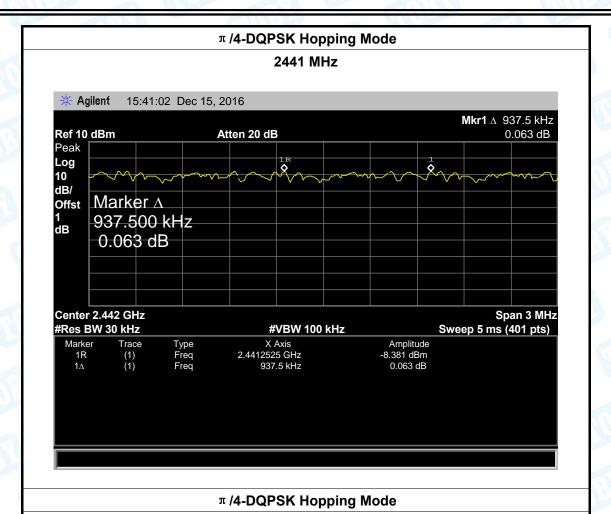
Channel frequency	Separation Read Value	Separation Limit
(MHz)	(kHz)	(kHz)
2402	1005.00	916.67
2441	937.50	917.33
2480	1065.00	916.00

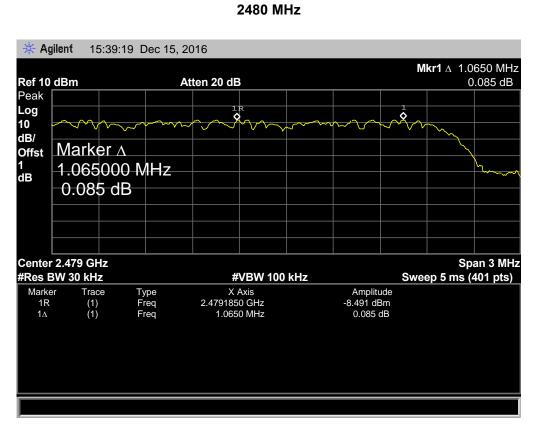
π /4-DQPSK Hopping Mode













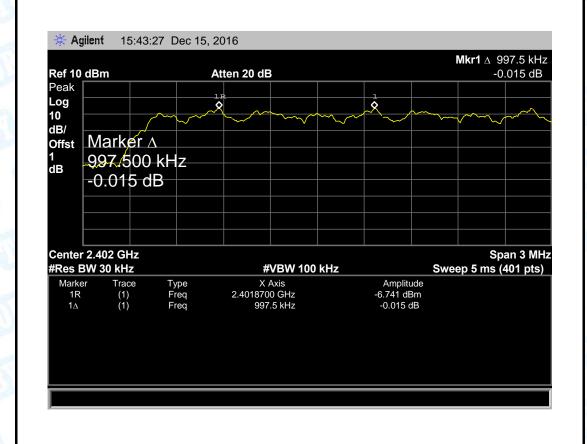
Report No.: TB-FCC150911 Page: 93 of 102

EUT:Tablet PCModel Name :MOMO8 QuadTemperature:25°CRelative Humidity:55%Test Voltage:DC 3.7V

Test Mode: Hopping Mode (8-DPSK)

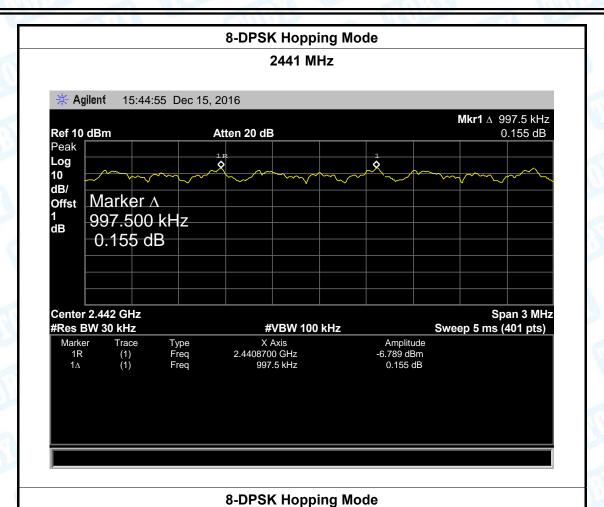
11 3 1				
Channel frequency	Separation Read Value	Separation Limit		
(MHz)	(kHz)	(kHz)		
2402	997.50	881.33		
2441	997.50	881.33		
2480	1005.00	896.00		

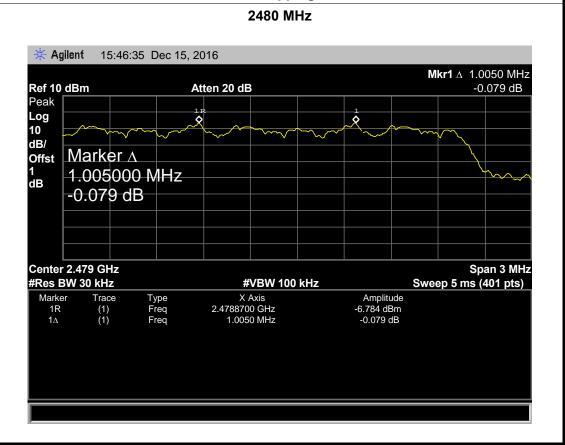
8-DPSK Hopping Mode













Report No.: TB-FCC150911 Page: 95 of 102

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.

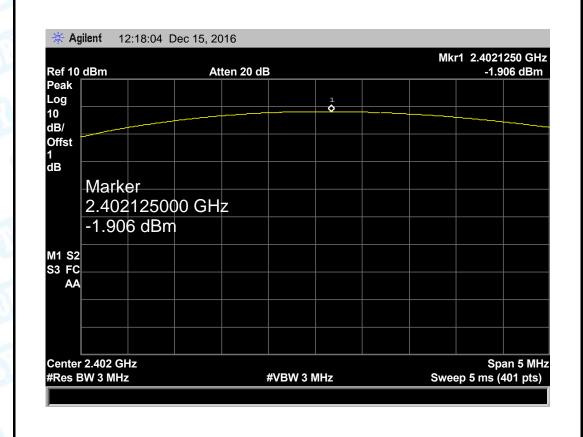


Report No.: TB-FCC150911 Page: 96 of 102

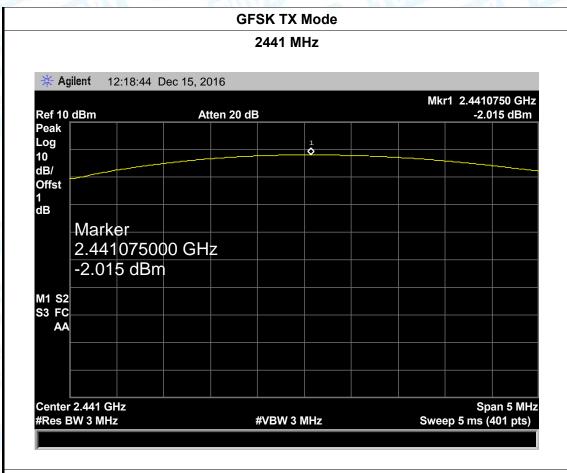
10.5 Test Data

EUT:	Tablet PC		Model Name :	MOMO8 Quad
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V		CHI PER	A MILLIA
Test Mode:	TX Mode	(GFSK)		
Channel frequen	cy (MHz)	Test Result	(dBm) L	imit (dBm)
2402		-1.906		
2441 -2.01		-2.015		21
2480		-2.239		
GFSK TX Mode				

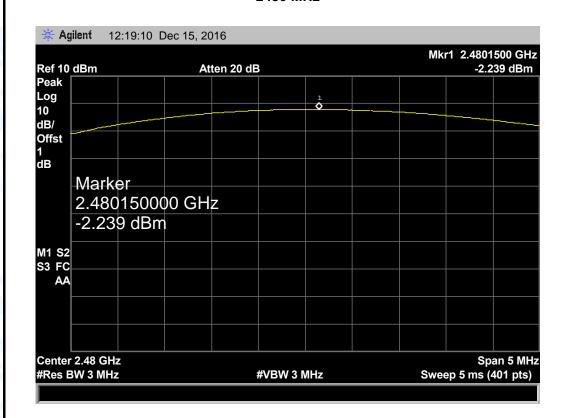








GFSK TX Mode

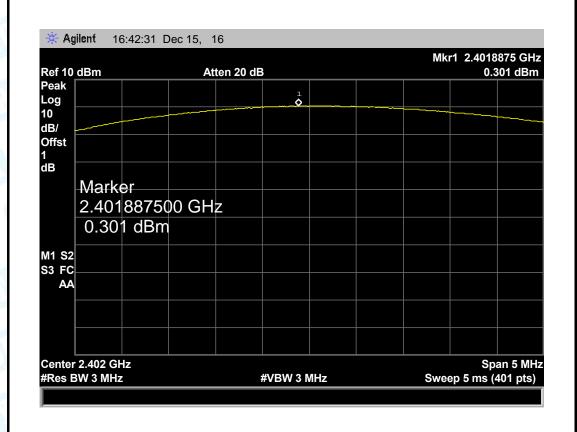




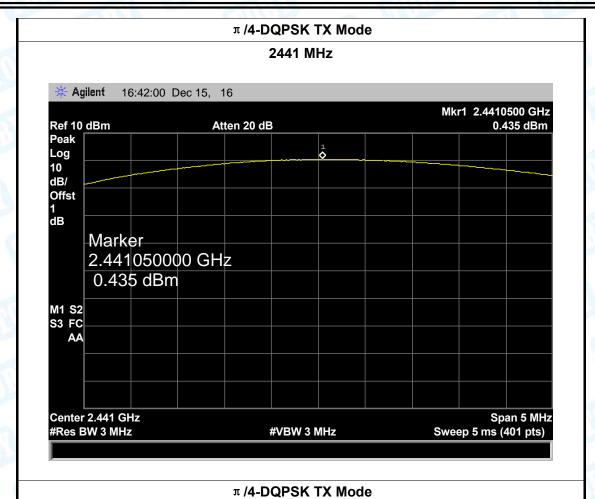
Page: 98 of 102

EUT:	Tablet PC	01	Model Name :	MOMO8 Quad
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V	W. Comment	V C	133
Test Mode:	TX Mode	(π /4-DQPSK)		
Channel frequency (MHz)		Test Result	(dBm) Li	mit (dBm)
2402		0.301		
2441		0.435		21
2480		0.125		
- /A DODGK TV Mada				

π /4-DQPSK TX Mode





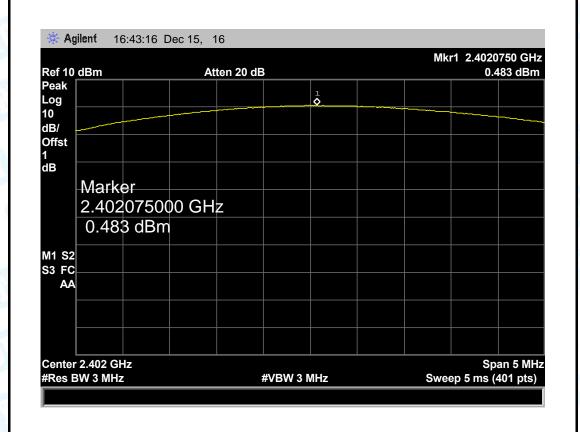




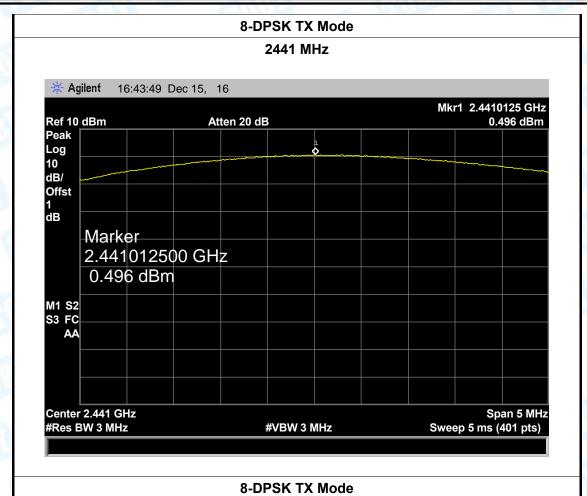


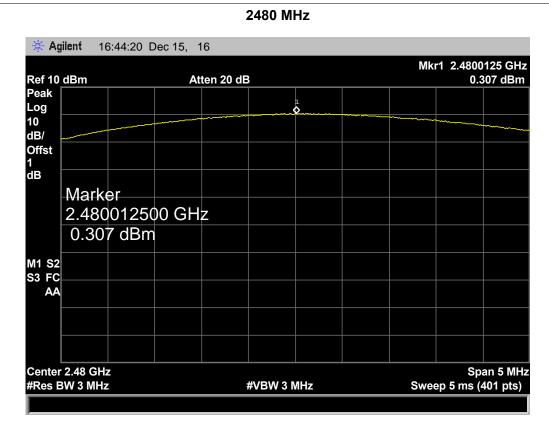
Report No.: TB-FCC150911
Page: 100 of 102

EUT:	Tablet PC	DIT.	Model Name :	MOMO8 Quad
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	DC 3.7V			
Test Mode:	TX Mode	(8-DPSK)		
Channel frequen	cy (MHz)	Test Result (d	IBm) Lin	nit (dBm)
2402		0.483		
2441 0.496			21	
2480		0.307		
8-DPSK TX Mode				











Report No.: TB-FCC150911 Page: 102 of 102

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 2 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 PIFA antenna. It complies with the standard requirement.

	Antenna Type
a Gu	▼ Permanent attached antenna
	□ Unique connector antenna
A.S.	□ Professional installation antenna

----END OF REPORT----