

Shenzhen Toby Technology Co., Ltd.

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FCC Radio Test Report FCC ID: 2AMQR-101

Original Grant

Report No. : TB-FCC154913

Applicant: Shenzhen Zhixingsheng Electronic Co., Ltd.

Equipment Under Test (EUT)

EUT Name : Ads machine

Model No. : 10.1"

Series Model No. : 7", 13.3", 15.6", 18.5", 23.5", 27", 32"

Brand Name : N/A

Receipt Date : 2017-06-22

Test Date : 2017-06-23 to 2017-06-28

Issue Date : 2017-07-01

Standards : FCC Part 15: 2016, 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



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1. General Information about EUT

1.1 Client Information

Applicant: Shenzhen Zhixingsheng Electronic Co., Ltd.

Address: 4/F, Building F.No.8 of East Zone, Shangxue Science Park, Bantian,

Jihua Road, Longgang Disctrict, Shenzhen, China

Manufacturer : Shenzhen Zhixingsheng Electronic Co., Ltd.

Address : 4/F, Building F.No.8 of East Zone, Shangxue Science Park, Bantian,

Jihua Road, Longgang Disctrict, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	A	Ads machine			
Models No.	:	7", 10.1", 13.3", 15.6", 18.5", 23.5", 27", 32"			
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 V4.0: 2402~2480 MHz		
		Number of Channel: Bluetooth: 79 Channels see Note 2			
Product		Max Peak Output Power: Bluetooth: 1.635dBm(GFSK)			
Description		Antenna Gain: 4.3dBi FPC Antenna			
		Modulation Type:	GFSK (1 Mbps) π /4-DQPSK (2 Mbps) 8-DPSK (3 Mbps)		
Power Supply	:	DC Voltage supplied by AC/DC Adapter.			
Power Rating		AC/DC Adapter (K-T100502000U): Input: AC 100~240V, 50/60Hz, 0.35A. Output: DC 5V, 2.0A.			
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.

(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		



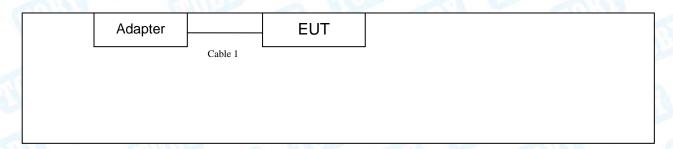
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	ALL DE LEADING		B. I		
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
80	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	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		10.
26	2428	53	2455	THE	

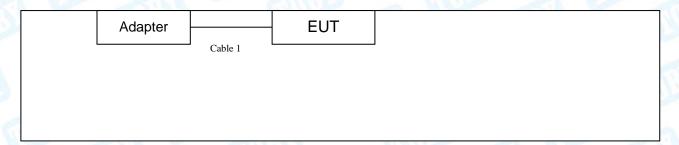
⁽³⁾ The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Normal Mode + TX Mode



TX Mode





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1.4 Description of Support Units

Equipment Information								
Name	Model	FCC ID/VOC	Manufacturer	Used "√"				
133	4000							
	Cable Information							
Number	Number Shielded Type Ferrite Core Length Note							
Cable 1	YES	NO	1.0M	133				

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	Normal Mode + TX 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: # /4-DQPSK (2 Mbps)
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



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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		RfTestTool.apk	The same of the sa
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	



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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.



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2. Test Summary

	F	CC Part 15 Subpart C(15.247)/ RSS	247 Issue 1		
Standard S	ection	Tark Mann	l d		
FCC	IC	Test Item	Judgment	Remark	
15.203	13	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:847.1731kHz π/4-DQPSK: 1181.8kHz 8-DPSK: 1133.1KHz	



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3. Test Equipment

AC Main C	onducted Emis	sion			
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	ROHDE& SCHWARZ	ESCI	100321	Jul. 20, 2017	Jul. 19, 2018
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 20, 2017	Jul. 19, 2018
L.I.S.N	Rohde & Schwarz	ENV216	101131	Jul. 20, 2017	Jul. 19, 2018
L.I.S.N	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 20, 2017	Jul. 19, 2018
Radiation Description	Spurious Emiss Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
EMI Test Receiver	Rohde & Schwarz	ESPI	1010.1"0/007	Jul. 20, 2017	Jul. 19, 2018
Bilog Antenna	ETS-LINDGREN	3142E	10.1"17537	Mar.25, 2017	Mar. 24, 2018
Horn Antenna	ETS-LINDGREN	3117	10.1"43207	Mar.25, 2017	Mar. 24, 2018
Pre-amplifier	Sonoma	310N	185903	Mar.24, 2017	Mar. 23, 2018
Pre-amplifier	HP	8449B	3008A00849	Mar.24, 2017	Mar. 23, 2018
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.24, 2017	Mar. 23, 2018
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna C	onducted Emis	sion			
Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 20, 2017	Jul. 19, 2018
Spectrum Analyzer	Rohde & Schwarz	ESPI	100321	Jul. 20, 2017	Jul. 19, 2018



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

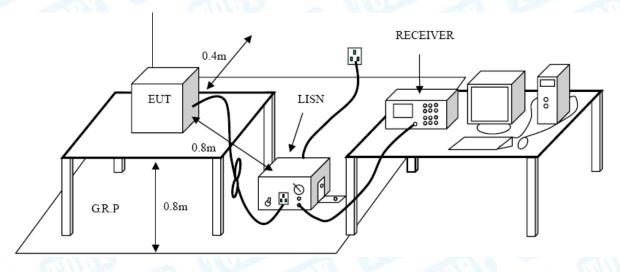
Conducted Emission Test Limit

Eroguenov	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.



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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: 10.1" Ads machine **Model Name:** 25℃ **Relative Humidity:** Temperature: 55% Test Voltage: AC 120V/60 Hz Terminal: Line Test Mode: **USB Charging Mode** Remark: Only worse case is reported 90.0 dBuV QP: AVG: 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 0.1499 13.26 9.92 23.18 66.00 -42.82 QP 1 2 0.1499 6.65 9.92 16.57 56.00 -39.43 **AVG** 3 63.20 -23.16 0.2100 30.02 10.02 40.04 QP 17.70 AVG 0.2100 10.02 27.72 53.20 -25.48 4 5 0.2940 5.60 10.02 15.62 60.41 -44.79 QP 50.41 -37.72 AVG 6 0.2940 2.67 10.02 12.69 7 0.6460 10.14 10.09 20.23 56.00 -35.77 QP 6.91 17.00 46.00 -29.00 8 0.6460 10.09 **AVG** 9 1.3700 24.55 10.06 34.61 56.00 -21.39 QP 10 1.3700 14.71 24.77 46.00 -21.23 AVG 10.06 QP 11 17.6018 11.55 10.21 21.76 60.00 -38.24 50.00 -39.68 AVG 12 17.6018 0.11 10.21 10.32 **Emission Level= Read Level+ Correct Factor**



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EUT:	Ads machine		Model Nam	e :	10.1"	9		
Temperature:	25℃	01	Relative Hu	midity:	55%	100		
Test Voltage:	AC 120V/60 Hz	33		130		MAG		
Terminal:	Neutral							
Test Mode:	USB Charging N	/lode		1 16		THE STATE OF THE S		
Remark:	Only worse case	e is reported		3	a V	M. Carrie		
40 40		MM. Mary Mary	The state of the s	ogsåg flytiskelserser	QP: AVG:	peak		
0.150	0.5 Reading	(MHz)	5 Measure-			30.000		
No. Mk. Fre	eq. Level	Factor dB	ment dBuV	Limit dBuV	Over	Detector		
1 0.29		10.09	41.13		-19.37	QP		
2 0.29		10.09	24.68		-25.82	AVG		
					-26.68			
3 0.65		10.02	29.32			QP		
4 0.65		10.02	23.42		-22.58	AVG		
5 1.22		10.14	31.36		-24.64	QP		
6 1.22		10.14	21.63	46.00	-24.37	AVG		
7 4.40)59 20.18	10.06	30.24	56.00	-25.76	QP		
8 4.40	959 8.64	10.06	18.70	46.00	-27.30	AVG		
9 11.15	79 8.32	10.14	18.46	60.00	-41.54	QP		
10 11.15	79 -0.60	10.14	9.54	50.00	-40.46	AVG		
11 * 20.62	220 30.64	10.06	40.70	60.00	-19.30	QP		
12 20.62	220 16.31	10.06	26.37	50.00	-23.63	AVG		
Emission Level=	Read Level+ Cor	rect Factor						



EUT: 10.1" Ads machine **Model Name:** 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 0.150 0.5 (MHz) 30.000 Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dΒ dBuV dBuV dB Detector 0.1859 27.27 9.99 37.26 64.21 -26.95 QP 1 2 0.1859 6.94 9.99 16.93 54.21 -37.28 AVG 3 0.2459 11.58 10.02 21.60 61.89 -40.29 QΡ 51.89 -43.75 AVG 4 0.2459 -1.8810.02 8.14 25.79 56.00 -30.21 QΡ 5 0.6700 15.69 10.10 46.00 -30.10 6 0.6700 5.80 10.10 15.90 **AVG** 13.38 10.05 23.43 56.00 -32.57 QΡ 7 2.1779 46.00 -32.27 8 2.1779 3.68 10.05 13.73 AVG QP 9 8.2418 26.59 10.10 36.69 60.00 -23.31 8.2418 13.33 10.10 23.43 50.00 -26.57 AVG 10 17.1818 8.30 10.22 60.00 -41.48 QΡ 11 18.52 50.00 -44.57 12 17.1818 -4.7910.22 5.43 AVG **Emission Level= Read Level+ Correct Factor**



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EU	Т:	Ads machine	100	Model Name :	10.1"	
Ten	nperature:	25℃	- 6A	Relative Humid	ity: 55%	
Tes	st Voltage:	AC 240V/60 H	Z	(MILLIO)		MAG
Ter	minal:	Neutral		V C	TO BE	
Tes	st Mode:	USB Charging	Mode		R. D.	
Rer	mark:	Only worse case	se is reported			MUL
90.0	0 dBuV				90.	
					QP: AVG:	
	A. A.	W. M.	v	. * J h. L	A train the surphilised with the	Na.
40	hy and with	MANAGEMENT TO SHAPE	philipalitation of the later	MATHERICAL	LA 1. 1	Market.
	NW 1		1			
	MANAGE TO THE	LPHAL MANAGER	AMANA JA	19 May and May	Markey and the same	peak
		A Made and	'1 "N/r" \v ∨			AVG
-10						
0.	150	0.5	(MHz)	5		30.000
		Reading	Correct	Measure-	_	
No	o. Mk. Fre	eq. Level	Factor	ment Lim	nit Over	
	MH	Hz dBu∨	dB	dBu∀ dBu	ıV dB	Detector
,	1 0.24	59 29.55	10.10	39.65 61.8	89 -22.24	QP
	2 0.24	59 12.07	10.10	22.17 51.8	89 -29.72	AVG
	3 0.76	20 11.53	10.05	21.58 56.0	00 -34.42	QP
	4 0.76	20 1.73	10.05	11.78 46.0	00 -34.22	AVG
- !	5 1.20	99 17.31	10.14	27.45 56.0	00 -28.55	QP
	6 1.20		10.14		00 -29.74	AVG
	7 * 3.37		10.06		00 -20.29	QP
	8 3.37		10.06		00 -23.57	AVG
	9 10.01		10.16		00 -38.59	QP
l —	0 10.01		10.16		00 -42.52	AVG
_1			10.06		00 -40.50	QP
1	2 17.88	358 -3.06	10.06	7.00 50.0	00 -43.00	AVG
 	!!-» aval=	Deed Level+ C		_		
Em	ission Levei=	Read Level+ Co	orrect Factor			



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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	

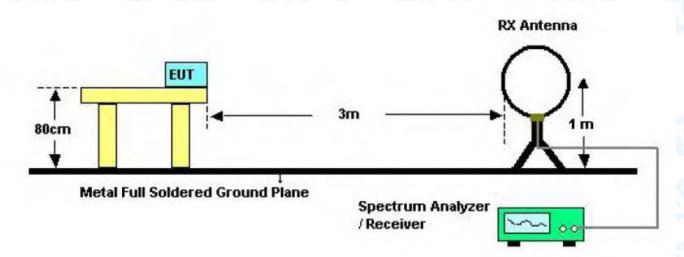
Note:

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

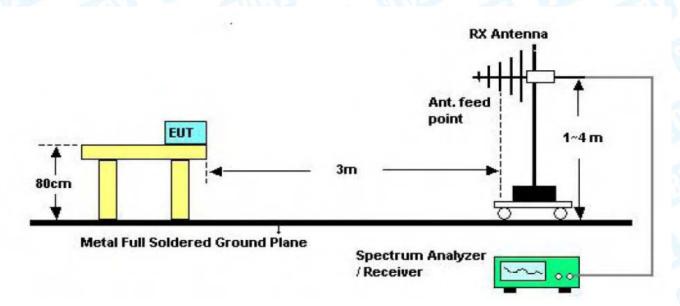


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5.2 Test Setup



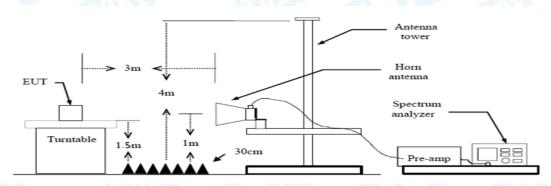
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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.



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9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Emission Level= Read Level+ Correct Factor

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

EUT:				Name :	10.1"	Mark			
Tempera	ature:	25℃	25℃ Relative Humidity:			55%			
Test Vol	tage:	AC	120V	//60H	Z		MILLO		
Ant. Pol		Hori	izont	al	A Billion		I Car	6311	33
Test Mo	de:	TX	GFSI	K Mod	de 2402MHz	CHILL	1	A Property	
Remark	:	Only	y wor	rse ca	ase is reporte	d			101
80.0 dBu	V/m								
30						× A A	(RF)FCC 15	5C 3M Radiatio Margin - E	
Marangalan	Market Market Market	YAYYA	hagapa	Mark Walnut	Maring Maring	JAMAN W VINA		M. Atta	
-20					West			, Aller	
	40 50		ж.л. _г ., г., г., г., г., г., г., г., г., г., г		(MHz)		00 400 50	0 600 700	1000.00
-20	40 50		70 80		(MHz)	30		00 600 700 Over	1000.00
-20 30.000	40 50	60 7 eq.	70 80 Re L	eadin	(MHz)	Measure	-		
-20 30.000	40 50 Ak. Fro	60 7 eq.	70 80 Re L	eading	(MHz) g Correct Factor dB/m	Measure- ment	- Limit	Over	
-20 30.000 No. N	40 50 //k. Fro	eq. Hz	70 80 Re	eadin evel	(MHz) g Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over	Detecto
-20 30.000 No. N	40 50 Mk. Fro Mk 195.8	eq. Hz 3220	70 80 Re	eading evel dBuV	g Correct Factor dB/m -20.22 -12.87	Measurement dBuV/m 35.50	Limit dBuV/m 43.50	Over dB -8.00	Detecto
No.	40 50 Mk. Fro Mi 195.8 392.0	eq. Hz 3220 0951	70 80 Re	eading evel dBuV 55.72	g Correct Factor dB/m -20.22 -12.87 -11.99	Measurement dBuV/m 35.50 40.84	Limit dBuV/m 43.50 46.00	Over dB -8.00 -5.16	Detecto QP QP QP
-20 30.000 No. N	40 50 Mk. Fro Mh 195.8 392.0 449.5	eq. Hz 3220 0951 5558	70 80 Re	eading evel dBuV 55.72 53.71	(MHz) g Correct Factor dB/m -20.22 -12.87 -11.99 -11.16	Measurement dBuV/m 35.50 40.84 40.88	Limit dBuV/m 43.50 46.00 46.00	Over dB -8.00 -5.16 -5.12	Detecto QP QP

TB-RF-074-1.0



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EUT:	Ads ma	chine	a all	Model Na	ame :	10.1"	
Temperature:	25 ℃		A B	Relative Humidity: 5			ARILL .
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical		WILL S		I Alle		
Test Mode:	TX GFS	K Mode 24	102MHz			. M	This was
Remark:	Only wo	rse case is	reported	C. San		1	. (
80.0 dBuV/m							
30		Maybra Ward Barb	2 X		3 4	3M Radiation Margin -E	
20							
-20 30.000 40 50	60 70	80	(MHz)	300	400 500	600 700	1000.000
30.000 40 50		Reading Level		300 Measure- ment	400 500 Limit	600 700 Over	1000.000
30.000 40 50 No. Mk. Fi	F	Reading	Correct	Measure-			
30.000 40 50 No. Mk. Fi	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
No. Mk. Fr	req. IHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Over	Detector
No. Mk. Fr M 1 98.1 2 * 195.	req. IHz 1419	Reading Level dBuV 58.11	Correct Factor dB/m -22.01	Measure- ment dBuV/m 36.10	Limit dBuV/m 43.50	Over dB -7.40	Detector QP
No. Mk. Fr. M. 1 98.1 2 * 195. 3 ! 392.	Freq. IHz 1419 8220	Reading Level dBuV 58.11 61.30	Correct Factor dB/m -22.01 -20.22	Measure- ment dBuV/m 36.10 41.08	Limit dBuV/m 43.50 43.50	Over dB -7.40 -2.42	Detector QP QP
No. Mk. Fr M 1 98.1 2 * 195. 3 ! 392. 4 490.	req. IHz 1419 8220 0951	Reading Level dBuV 58.11 61.30 53.61	Correct Factor dB/m -22.01 -20.22 -12.87	Measure- ment dBuV/m 36.10 41.08 40.74	Limit dBuV/m 43.50 43.50 46.00	Over dB -7.40 -2.42 -5.26	Detector QP QP QP



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Above 1GHz(Only worse case is reported)

EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		18.5
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2402MHz		LILL STREET
Remark:	No report for the emission who prescribed limit.	ich more than 10 dB bo	elow the

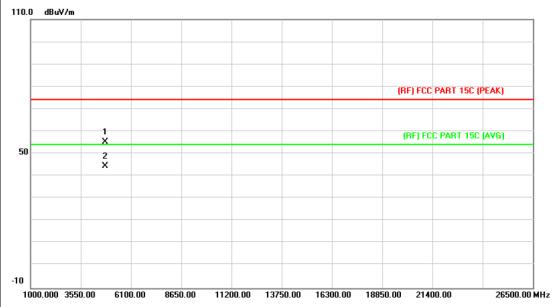


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.510	44.38	13.44	57.82	74.00	-16.18	peak
2	*	4806.570	32.18	13.46	45.64	54.00	-8.36	AVG



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		733
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2402MF	łz	The same of the sa
Remark:	No report for the emission prescribed limit.	n which more than 10 dB	3 below the

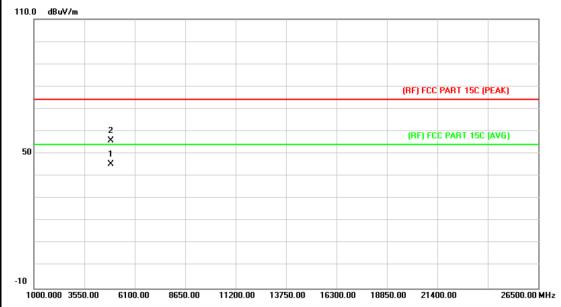


No.	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4804.270	41.84	13.44	55.28	74.00	-18.72	peak
2	*	4805.690	31.11	13.46	44.57	54.00	-9.43	AVG



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		133
Ant. Pol.	Horizontal	A RIVER	
Test Mode:	TX GFSK Mode 2441MH	z	Chillis .
Remark:	No report for the emission prescribed limit.	n which more than 10 dB	3 below the

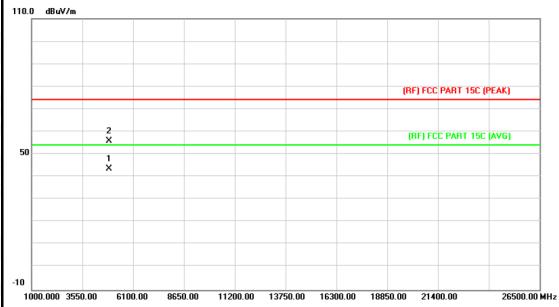


No	o. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.879	31.39	13.90	45.29	54.00	-8.71	AVG
2		4883.671	42.00	13.92	55.92	74.00	-18.08	peak



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	emperature: 25°C Relative Humidity:		55%
Test Voltage:	AC 120V/60Hz		33
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2441MHz		LINE TO SERVICE
Remark:	No report for the emission who prescribed limit.	nich more than 10 dB b	elow the

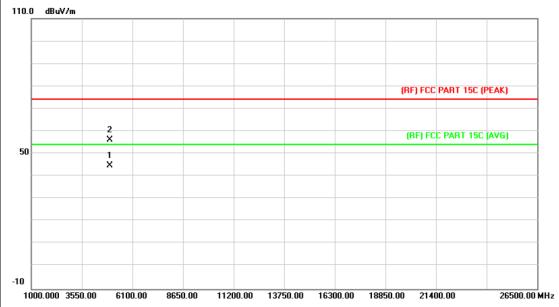


No	. Mk	. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4880.297	29.74	13.89	43.63	54.00	-10.37	AVG
2		4881.692	42.05	13.90	55.95	74.00	-18.05	peak



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	1	18.0
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2480MHz		C. C. C.
Remark:	No report for the emission wh prescribed limit.	ich more than 10 dB be	elow the

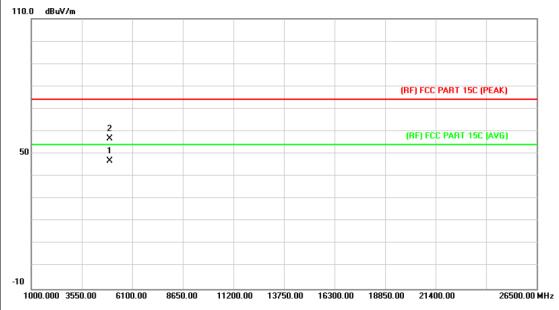


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.280	30.49	14.36	44.85	54.00	-9.15	AVG
2		4961.277	41.91	14.38	56.29	74.00	-17.71	peak



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EUT:	Ads machine	Model Name :	10.1"		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	AC 120V/60Hz	1			
Ant. Pol.	Vertical				
Test Mode:	TX GFSK Mode 2480MHz		- TILL		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.				



No	o. M	lk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4	960.125	32.48	14.36	46.84	54.00	-7.16	AVG
2		4	961.275	42.41	14.38	56.79	74.00	-17.21	peak



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EUT:	Ads machine	Model Name :	10.1"						
Temperature:	25 ℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz							
Ant. Pol.	Horizontal								
Test Mode:	TX π /4-DQPSK Mode 2402	MHz	THE PARTY OF THE P						
Remark:	No report for the emission w prescribed limit.	which more than 10 dB	below the						



No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4802.547	43.55	13.43	56.98	74.00	-17.02	peak
2	*	4805.672	29.81	13.46	43.27	54.00	-10.73	AVG



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Ads machine	Model Name :	10.1"
25℃	Relative Humidity:	55%
AC 120V/60Hz		773
Vertical		
TX π /4-DQPSK Mode 240	2MHz	OM THE
No report for the emission prescribed limit.	which more than 10 dE	3 below the
	25°C AC 120V/60Hz Vertical TX π /4-DQPSK Mode 240 No report for the emission	25°C Relative Humidity: AC 120V/60Hz Vertical TX π /4-DQPSK Mode 2402MHz No report for the emission which more than 10 dB

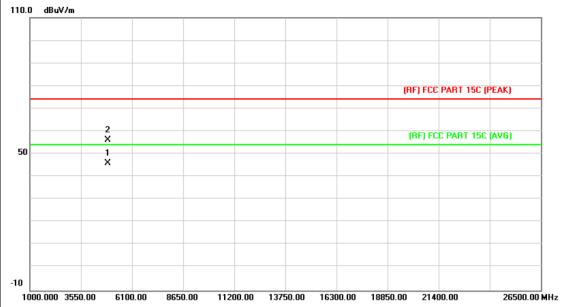


No.	Mk.	Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4803.761	42.83	13.44	56.27	74.00	-17.73	peak
2	*	4804.297	28.85	13.44	42.29	54.00	-11.71	AVG



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	7	(39)
Ant. Pol.	Horizontal		
Test Mode:	TX π /4-DQPSK Mode 2441	MHz	LILL ST
Remark:	No report for the emission was prescribed limit.	hich more than 10 dB	below the

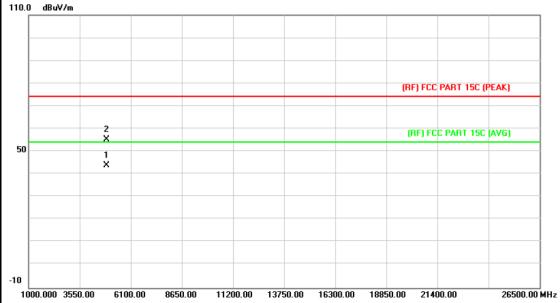


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4881.790	32.07	13.90	45.97	54.00	-8.03	AVG
2		4883.215	42.23	13.91	56.14	74.00	-17.86	peak



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EUT:	Ads machine	Model Name :	10.1"				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	W Comment	133				
Ant. Pol.	Vertical						
Test Mode:	TX π /4-DQPSK Mode 2441	MHz	LILL ST				
Remark:	Remark: No report for the emission which more than 10 dB below the prescribed limit.						
1100 10 11							

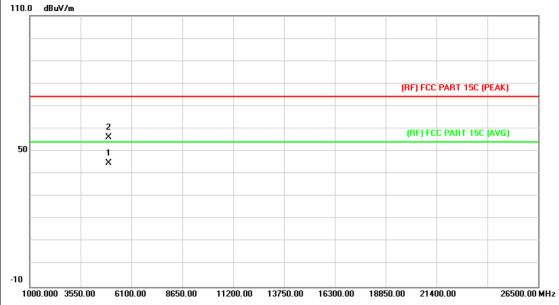


No	. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4882.715	29.97	13.90	43.87	54.00	-10.13	AVG
2		4883.687	41.37	13.92	55.29	74.00	-18.71	peak



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EUT:	Ads machine	Model Name :	10.1"						
Temperature:	25℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz							
Ant. Pol.	Horizontal								
Test Mode:	TX π /4-DQPSK Mode 2480M	Hz	LINE TO SERVICE						
Remark:									

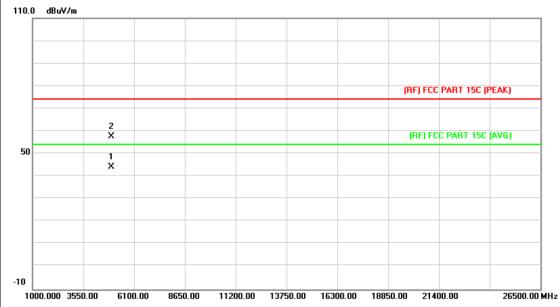


N	o. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.215	30.51	14.36	44.87	54.00	-9.13	AVG
2		4960.750	41.92	14.36	56.28	74.00	-17.72	peak



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EUT:	EUT: Ads machine Model Name							
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz						
Ant. Pol.	Vertical							
Test Mode:	TX π /4-DQPSK Mode 2480N	1Hz	LILL STORY					
Remark:	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	*	4959.653	29.76	14.36	44.12	54.00	-9.88	AVG
2		4960.255	43.27	14.36	57.63	74.00	-16.37	peak



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EUT:	Ads machine Model Name: 10.1"							
Temperature:	25°C Relative Humidity: 55%							
Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Horizontal							
Test Mode:	TX 8-DPSK Mode 2402MHz		LINE TO SERVICE					
Remark:	No report for the emission which more than 10 dB below the prescribed limit.							

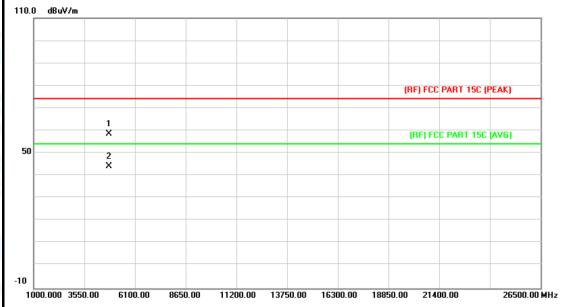


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.120	30.13	13.44	43.57	54.00	-10.43	AVG
2		4805.000	43.71	13.44	57.15	74.00	-16.85	peak



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EUT:	Ads machine	Model Name :	10.1"						
Temperature:	25℃	Relative Humidity:	55%						
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz							
Ant. Pol.	Vertical	The state of the s							
Test Mode:	TX 8-DPSK Mode 2402	MHz	The same of the sa						
Remark:	No report for the emission which more than 10 dB below the prescribed limit.								

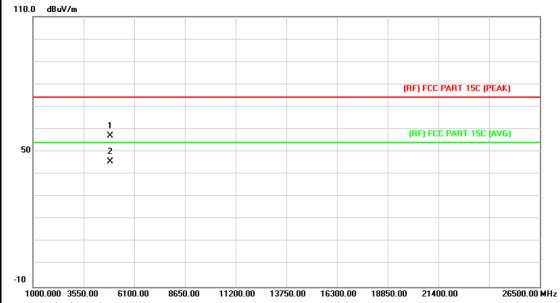


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4802.672	45.19	13.43	58.62	74.00	-15.38	peak
2	*	4806.417	30.72	13.46	44.18	54.00	-9.82	AVG



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EUT:	Ads machine	Model Name :	10.1"					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	ge: AC 120V/60Hz							
Ant. Pol.	Horizontal							
Test Mode:	TX 8-DPSK Mode 2441MHz		THE PARTY OF					
Remark:	No report for the emission w prescribed limit.	hich more than 10 dB	below the					

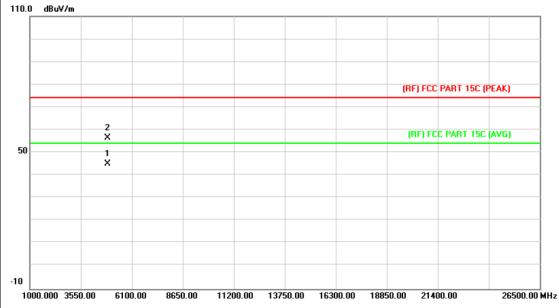


No.	Mk.	Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4881.267	43.22	13.90	57.12	74.00	-16.88	peak
2	*	4882.123	31.77	13.90	45.67	54.00	-8.33	AVG



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EUT:	Ads machine	Model Name :	10.1"				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical						
Test Mode:	TX 8-DPSK Mode 2441MHz		- TILL				
Remark:	No report for the emission was prescribed limit.	hich more than 10 dB	below the				

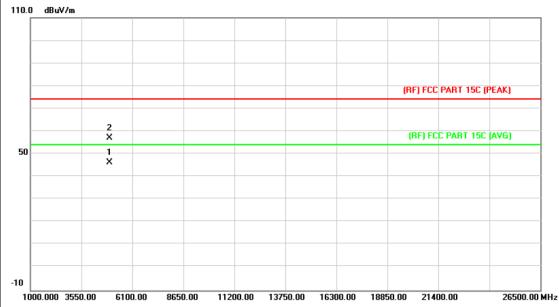


N	lo. N	Иk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*		4881.027	31.23	13.90	45.13	54.00	-8.87	AVG
2			4883.254	42.67	13.91	56.58	74.00	-17.42	peak



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EUT:	Ads machine	Model Name :	10.1"					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz						
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.	Mk	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.257	31.82	14.36	46.18	54.00	-7.82	AVG
2		4960.370	42.77	14.36	57.13	74.00	-16.87	peak



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EUT:	Ads machine	Model Name :	10.1"					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz						
Ant. Pol.	Vertical							
Test Mode:	TX 8-DPSK Mode 2480MHz		L. C. C.					
Remark:	No report for the emission wh prescribed limit.	No report for the emission which more than 10 dB below the						



No	o. Mk	. Freq.	_		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.230	32.61	14.36	46.97	54.00	-7.03	AVG
2		4961.721	42.33	14.38	56.71	74.00	-17.29	peak



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6. Restricted Bands Requirement

6.1 Test Standard and Limit

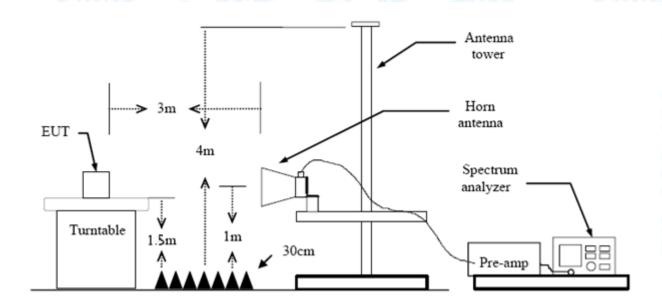
6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

Restricted Frequency	Class B (dE	BuV/m)(at 3m)
Band (MHz)	Peak	Average
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.



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(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.

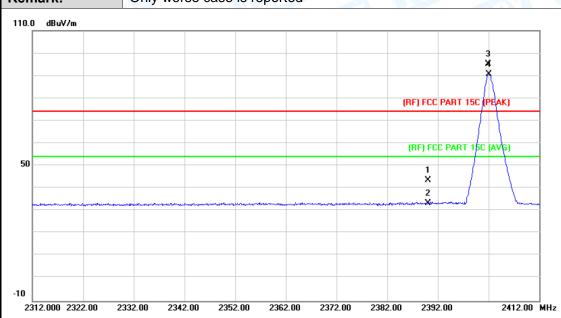
All restriction bands have been tested, only the worst case is reported.



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(1) Radiation Test

EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		The same
Test Mode:	TX GFSK Mode 2402MHz	The same of the sa	
Remark:	Only worse case is reported		

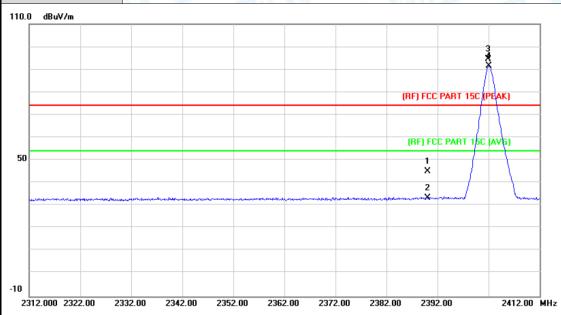


			Reading	Correct	Measure-			
No.	Mk.	. Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	42.74	0.77	43.51	74.00	-30.49	peak
2		2390.000	32.65	0.77	33.42	54.00	-20.58	AVG
3	X	2401.900	94.44	0.82	95.26	Fundamental	Frequency	peak
4	*	2402.000	89.77	0.82	90.59	Fundamental I	Frequency	AVG



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Ads machine	Model Name :	10.1"				
25℃	Relative Humidity:	55%				
AC 120V/60Hz						
Vertical						
TX GFSK Mode 2402MHz						
Only worse case is reported	CITIES .					
	25℃ AC 120V/60Hz Vertical TX GFSK Mode 2402MHz	25°C Relative Humidity: AC 120V/60Hz Vertical TX GFSK Mode 2402MHz				

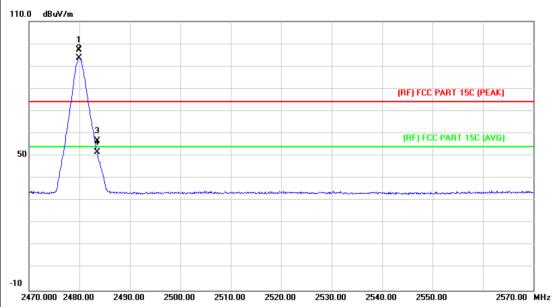


No.	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.41	0.77	45.18	74.00	-28.82	peak
2		2390.000	32.69	0.77	33.46	54.00	-20.54	AVG
3	X	2401.900	93.76	0.82	94.58	Fundamental	I Frequency	peak
4	*	2402.100	90.64	0.82	91.46	Fundamental	I Frequency	AVG



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EUT:	Ads machine	Model Name :	10.1"			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	Olm I				
Ant. Pol.	Horizontal					
Test Mode:	TX GFSK Mode 2480 MHz					
Remark:	Only worse case is reported					

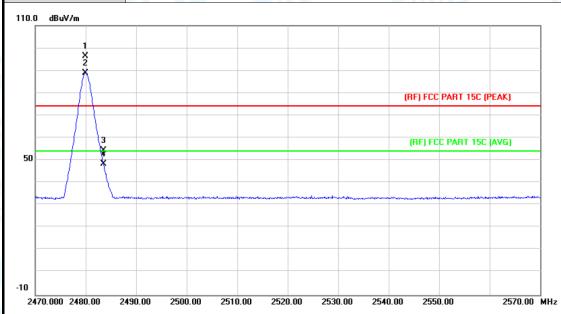


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.900	96.13	1.15	97.28	Fundamental	Frequency	peak
2	*	2479.900	92.63	1.15	93.78	Fundamental	I Frequency	AVG
3		2483.500	55.57	1.17	56.74	74.00	-17.26	peak
4		2483.500	50.39	1.17	51.56	54.00	-2.44	AVG



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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	The same	
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2480 MHz		LINE TO
Remark:	Only worse case is reported		

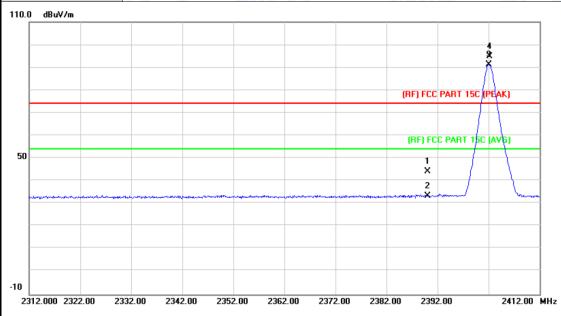


No.	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.900	95.09	1.15	96.24	Fundamenta	al Frequency	peak
2	*	2479.900	87.70	1.15	88.85	Fundamenta	I Frequency	AVG
3		2483.500	53.09	1.17	54.26	74.00	-19.74	peak
4		2483.500	47.05	1.17	48.22	54.00	-5.78	AVG



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EUT:	Ads machine	Model Name :	10.1"					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz						
Ant. Pol.	Horizontal							
Test Mode:	TX π /4-DQPSK Mode 2402	MHz	2 100					
Remark: Only worse case is reported								
110.0 dBuV/m								

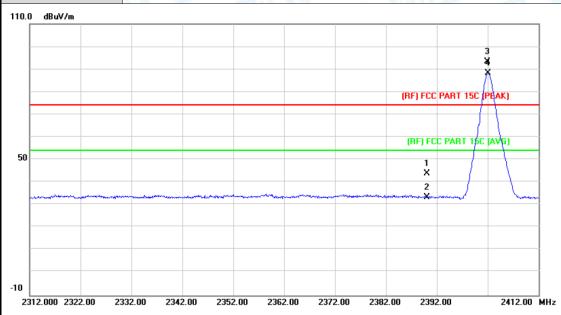


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.40	0.77	44.17	74.00	-29.83	peak
2		2390.000	32.70	0.77	33.47	54.00	-20.53	AVG
3	*	2402.000	90.46	0.82	91.28	Fundament	tal Frequency	y AVG
4	X	2402.200	94.00	0.82	94.82	Fundament	al Frequency	_y peak



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EUT:	Ads machine	Model Name :	10.1"				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical						
Test Mode:	TX π /4-DQPSK Mode 2402MHz						
Remark:	Only worse case is reported						

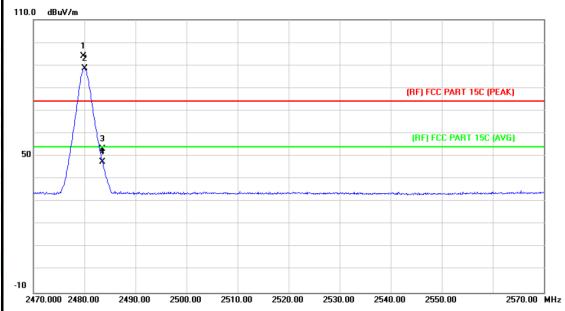


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.18	0.77	43.95	74.00	-30.05	peak
2		2390.000	32.66	0.77	33.43	54.00	-20.57	AVG
3	Χ	2401.900	92.39	0.82	93.21	Fundamen	ital Frequenc	_{sy} beak
4	*	2402.100	87.49	0.82	88.31	Fundamen	tal Frequency	y AVG



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EUT:	Ads machine	Ads machine Model Name : 1						
Temperature: 25℃ Relative Humi		Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz						
Ant. Pol.	Horizontal							
Test Mode:	TX π /4-DQPSK Mode 2480M	Hz	A Alberta					
Remark:	Only worse case is reported							

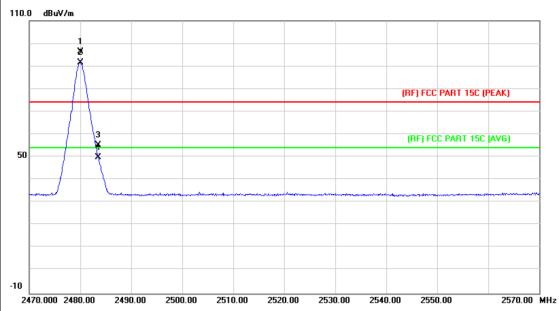


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.800	92.71	1.15	93.86	Fundament	al Frequency	peak
2	*	2480.000	87.51	1.15	88.66	Fundamenta	al Frequency	AVG
3		2483.500	52.09	1.17	53.26	74.00	-20.74	peak
4		2483.500	46.27	1.17	47.44	54.00	-6.56	AVG



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EUT:	Ads machine	Model Name :	10.1"				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz						
Ant. Pol.	Vertical						
Test Mode:	TX π /4-DQPSK Mode 2480	MHz	3 130				
Remark: Only worse case is reported							

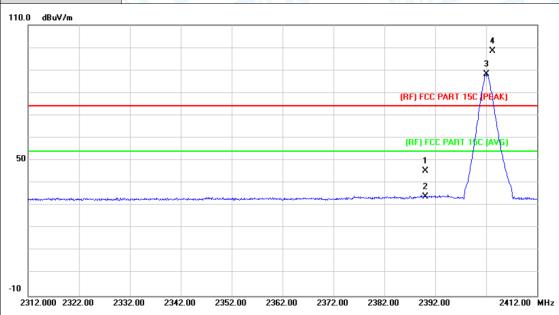


No	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2480.000	95.09	1.15	96.24	Fundamenta	Il Frequency	peak
2	*	2480.100	90.38	1.15	91.53	Fundamenta	ıl Frequency	AVG
3		2483.500	54.09	1.17	55.26	74.00	-18.74	peak
4		2483.500	48.73	1.17	49.90	54.00	-4.10	AVG



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EUT:	Ads machine	Model Name :	10.1"					
Temperature:	25℃	Relative Humidity:	55%					
Test Voltage:	AC 120V/60Hz							
Ant. Pol.	Horizontal							
Test Mode:	TX 8-DPSK Mode 2402MHz	TX 8-DPSK Mode 2402MHz						
Remark:	Only worse case is reported							

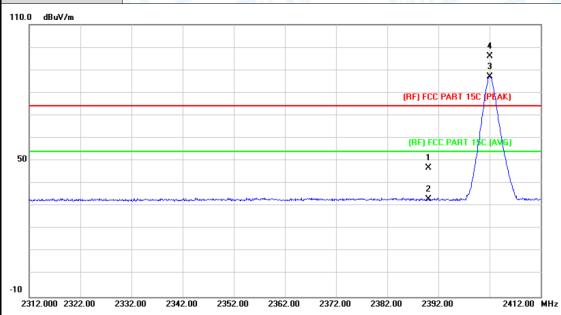


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	44.60	0.77	45.37	74.00	-28.63	peak
2		2390.000	33.19	0.77	33.96	54.00	-20.04	AVG
3	*	2402.100	87.30	0.82	88.12	Fundamental Frequency		AVG
4	X	2403.268	97.65	0.82	98.47	Fundamental Frequency		peak



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EUT:	Ads machine	Model Name :	10.1"			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz	nm I				
Ant. Pol.	Vertical					
Test Mode:	TX 8-DPSK Mode 2402MHz					
Remark:	Only worse case is reported	and the	3 _ 6			

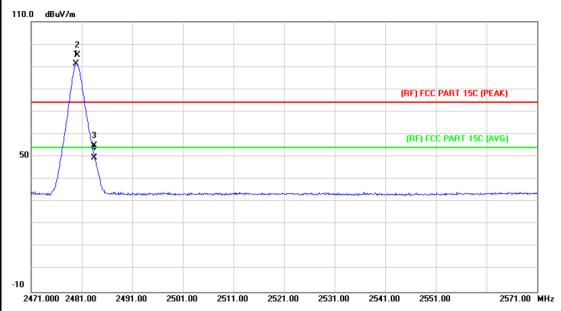


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.96	0.77	46.73	74.00	-27.27	peak
2		2390.000	32.31	0.77	33.08	74.00	-40.92	peak
3	Χ	2402.100	86.34	0.82	87.16	Fundamental Frequency		peak
4	*	2402.100	95.31	0.82	96.13	Fundamental Frequency		peak



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EUT:	Ads machine	Model Name :	10.1"				
Temperature:	25℃	Relative Humidity:	55%				
Test Voltage:	AC 120V/60Hz	Om I					
Ant. Pol.	Horizontal	Horizontal					
Test Mode:	TX 8-DPSK Mode 2480MHz						
Remark:	Only worse case is reported	COTTON TO STATE OF THE PARTY OF					

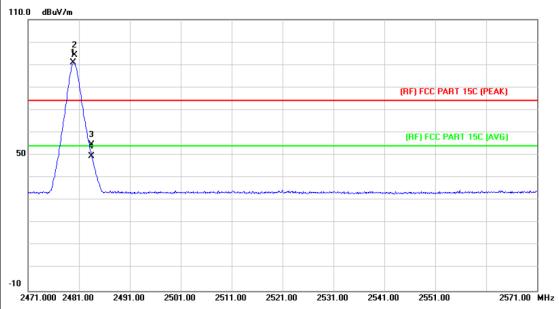


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2479.900	90.22	1.15	91.37	Fundamenta	l Frequency	AVG
2	Χ	2480.100	94.09	1.15	95.24	Fundamenta	I Frequency	peak
3		2483.500	53.77	1.17	54.94	74.00	-19.06	peak
4		2483.500	48.52	1.17	49.69	54.00	-4.31	AVG



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EUT:	Ads machine	Model Name :	10.1"			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	AC 120V/60Hz					
Ant. Pol.	Vertical					
Test Mode:	TX 8-DPSK Mode 2480MHz	TX 8-DPSK Mode 2480MHz				
Remark: Only worse case is reported						

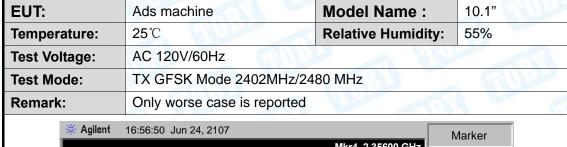


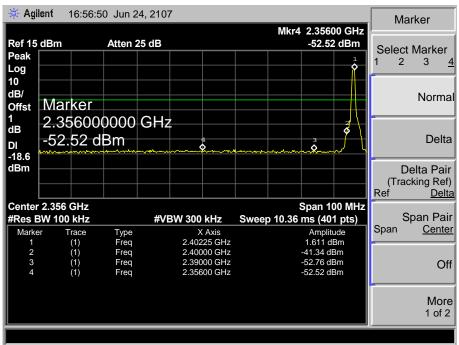
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2479.900	89.78	1.15	90.93	Fundamenta	I Frequency	AVG
2	X	2480.100	93.23	1.15	94.38	Fundamental Frequency		peak
3		2483.500	53.51	1.17	54.68	74.00	-19.32	peak
4		2483.500	48.25	1.17	49.42	54.00	-4.58	AVG

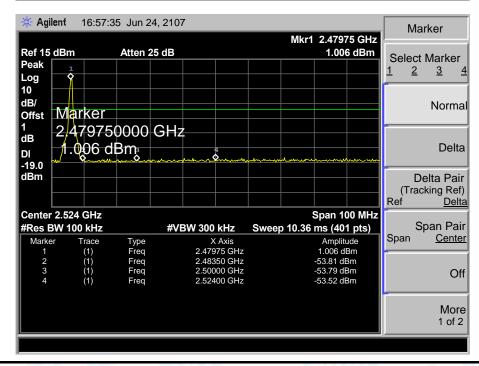


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(2) Conducted Test









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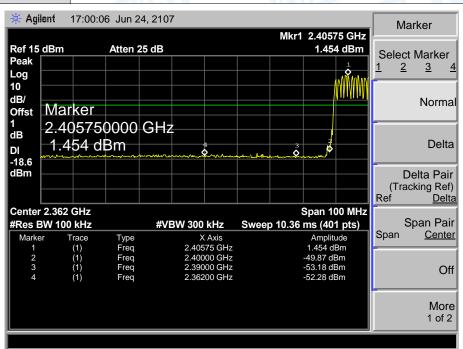
EUT: Ads machine Model Name: 10.1"

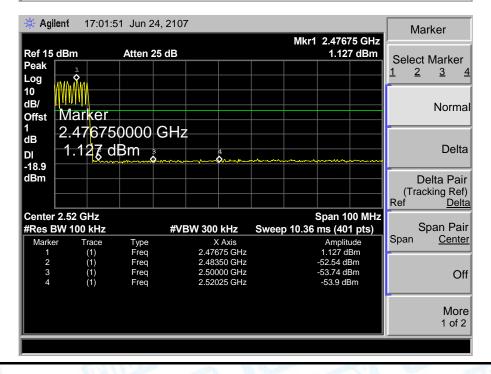
Temperature: 25℃ Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

Test Mode: GFSK Hopping Mode

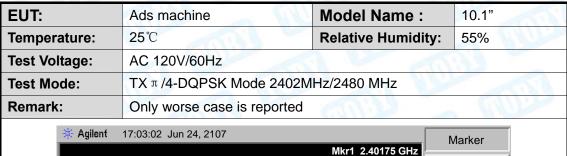
Remark: Only worse case is reported

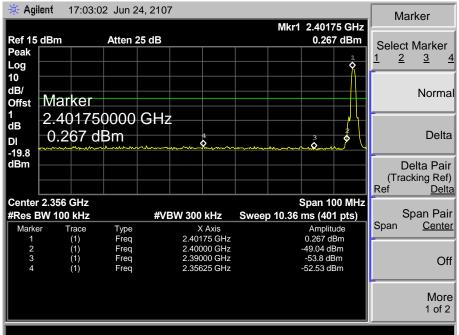


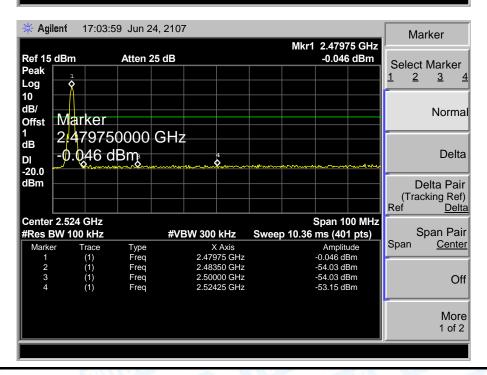




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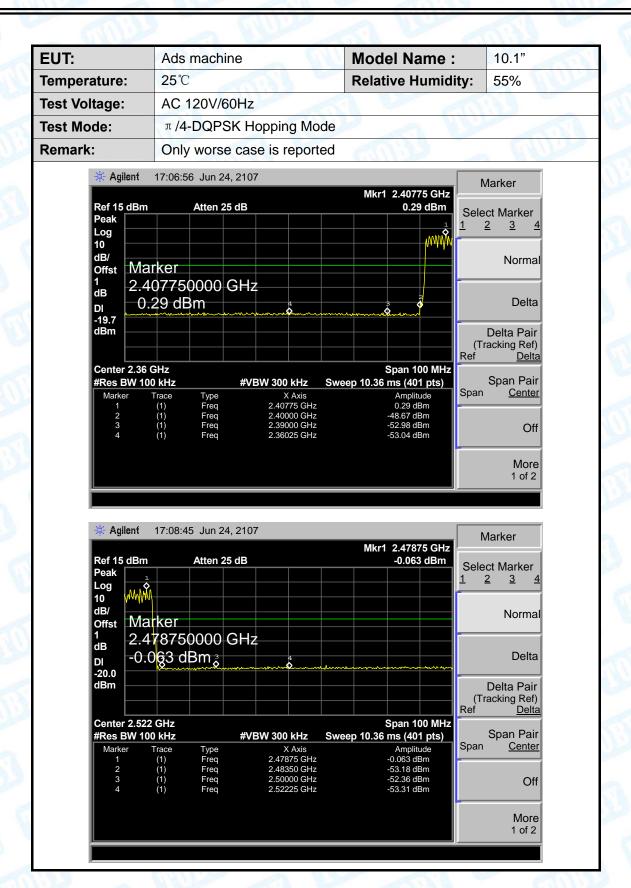








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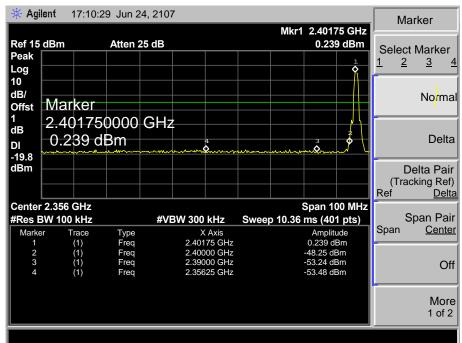
EUT: Ads machine Model Name: 10.1"

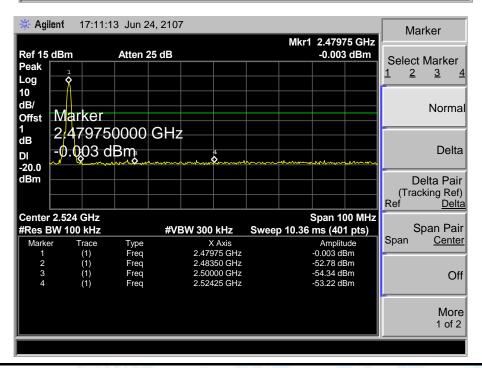
Temperature: 25℃ Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

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

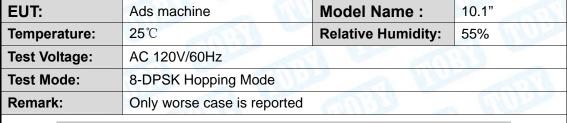
Remark: Only worse case is reported

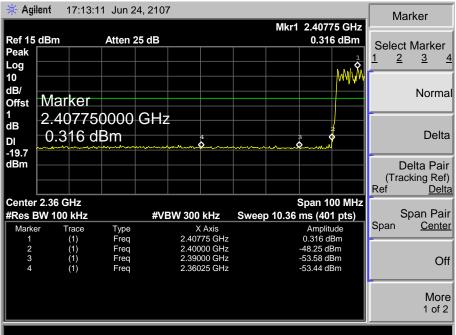


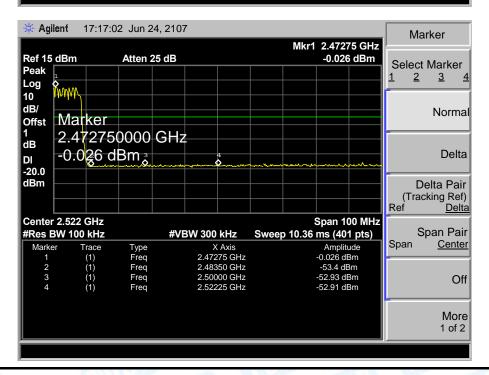




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7. Number of Hopping Channel

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



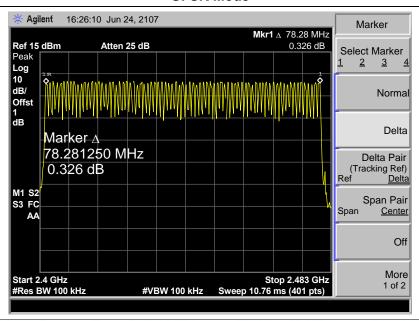
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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz	m - m	33

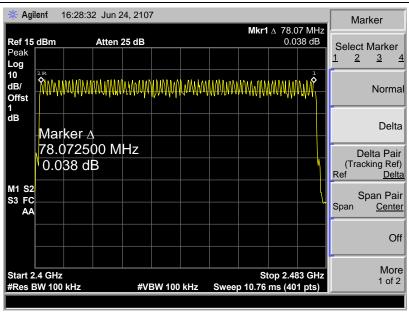
Test Mode: Hopping Mode

Frequency Range	Test Mode	Quantity of Hopping Channel	Limit
	GFSK	79	
2402MHz~2480MHz	π /4-DQPSK	79	>15
	8-DPSK	79	

GFSK Mode

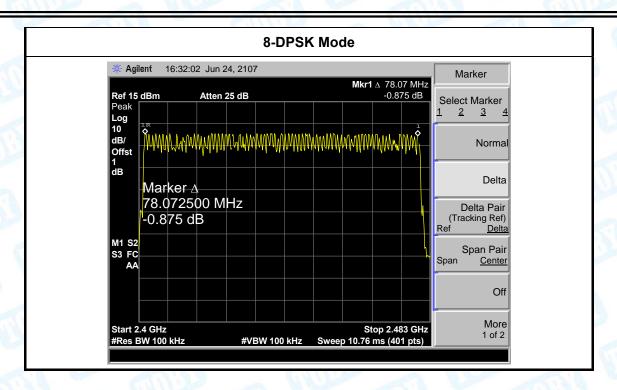


π /4-DQPSK Mode





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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.



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8.5 Test Data

EUT:	EUT: Ads machine			Model Name :	10.1"	A STATE OF	
Temper	ature:	25°	C	F	Relative Humidity:	55%	
Test Voltage:			120V/60Hz	2 PILLS			
Test Mo	de:	Hop	oping Mode (G	SFSK)	WILL STATE	A W	
Test	Chan	nel	Pulse	Total of Dwell	Period Time	Limit	Result
Mode	(MHz)		Time (ms)	(ms)	(s)	(ms)	Result
1DH1	244	1	0.44	140.80	31.60	400	PASS
1DH3	244	1	1.70	272.00	31.60	400	PASS
1DH5	244	1	2.94	313.60	31.60	400	PASS

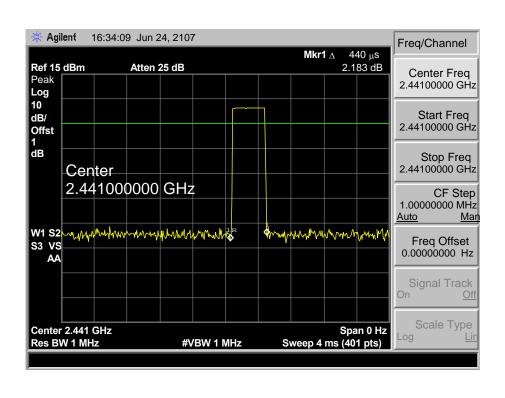
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79

1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

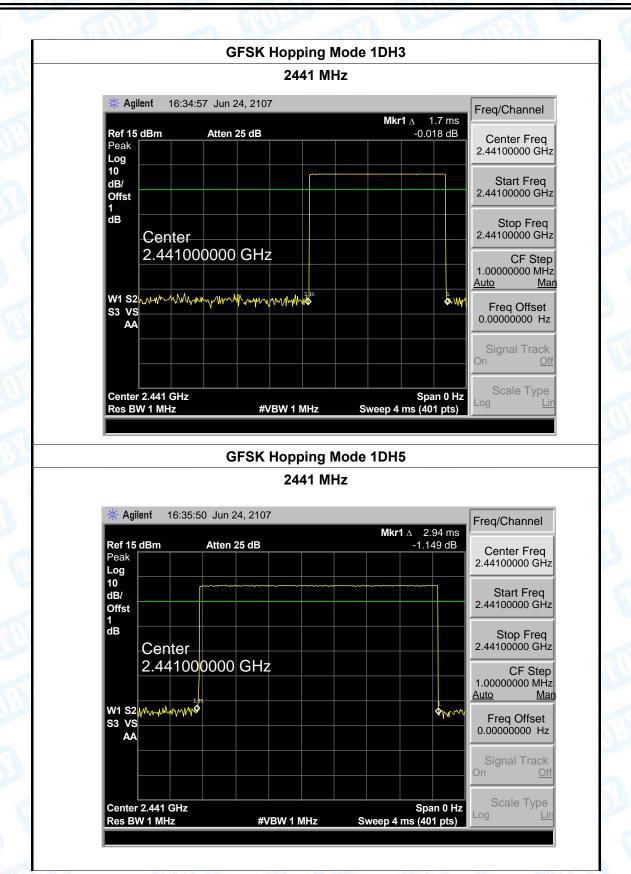
GFSK Hopping Mode 1DH1

2441 MHz





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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		77.4

Test Mode: Hopping Mode (π /4-DQPSK)

Test	Channel	Pulse	Total of Dwell	Period Time	Limit	Result
Mode	(MHz)	Time (ms)	(ms)	(s)	(ms)	Result
2DH1	2441	0.44	140.80	31.60	400	PASS
2DH3	2441	1.68	268.80	31.60	400	PASS
2DH5	2441	2.95	314.67	31.60	400	PASS

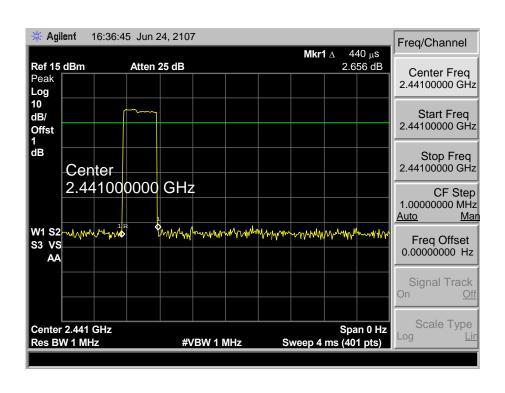
2DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

2DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79

2DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

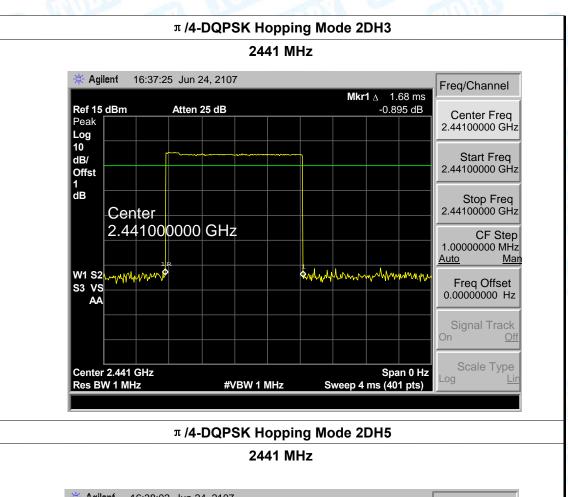
π /4-DQPSK Hopping Mode 2DH1

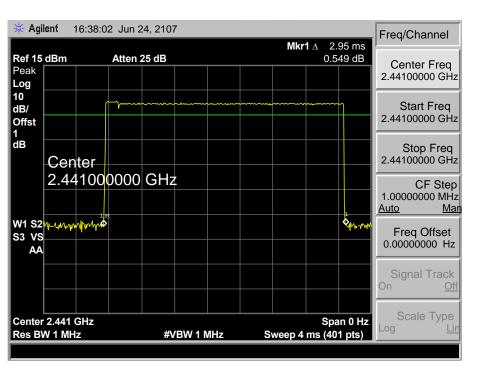
2441 MHz





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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

Test Mode: Hopping Mode (8-DQPSK)

Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
3DH1	2441	0.43	137.60	31.60	400	PASS
3DH3	2441	1.68	268.80	31.60	400	PASS
3DH5	2441	2.95	314.67	31.60	400	PASS

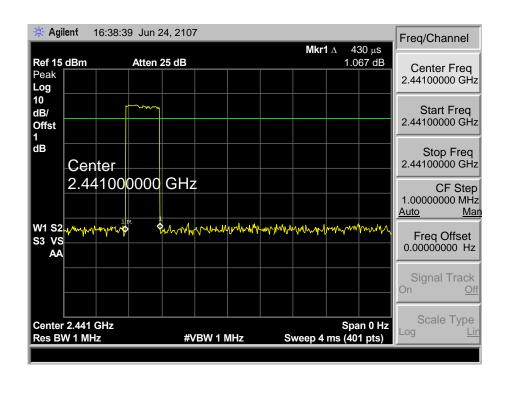
3DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79

3DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79

3DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79

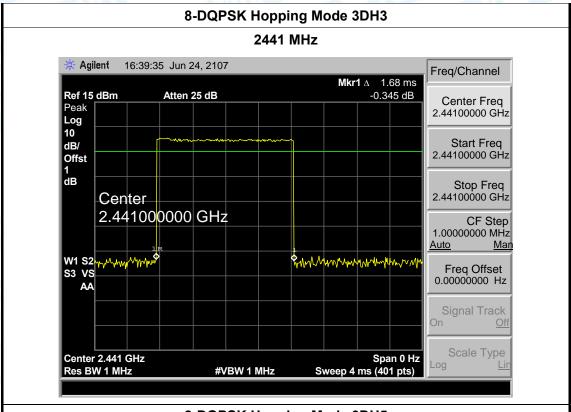
8-DQPSK Hopping Mode 3DH1

2441 MHz

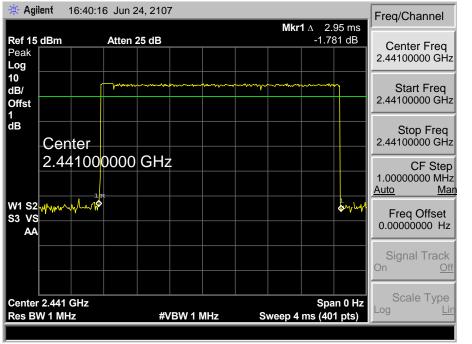




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8-DQPSK Hopping Mode 3DH5 2441 MHz





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9. Channel Separation and Bandwidth Test

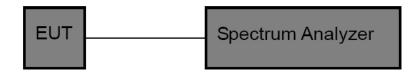
9.1 Test Standard and Limit

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=100 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.



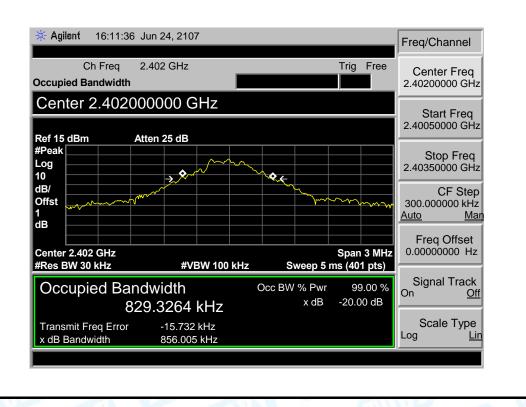
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9.5 Test Data

EUT:	Ads	machine	Model Name :	10.1"
Temperature:	25°	2	Relative Humidity:	55%
Test Voltage:	AC	120V/60Hz		
Test Mode:	TX	Mode (GFSK)	CHILD ST	2 130
Channel freque	ncv	99% OBW	20dB Bandwidth	20dB
(MHz)		(kHz)	(kHz)	Bandwidth *2/3 (kHz)
(MHz) 2402				
, ,		(kHz)	(kHz)	

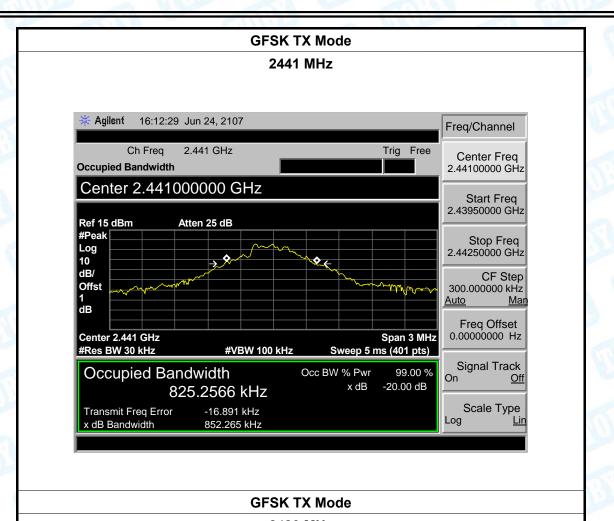
GFSK TX Mode

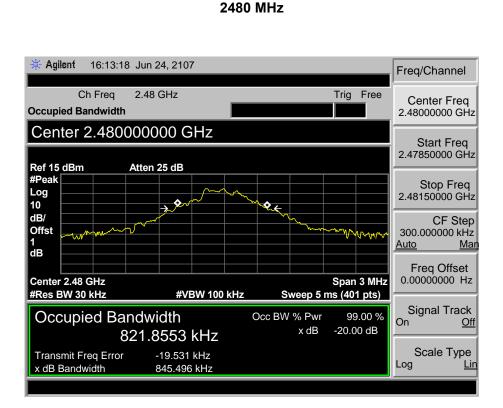
2402 MHz





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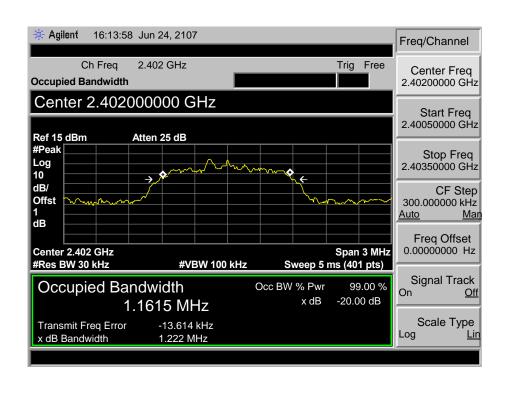




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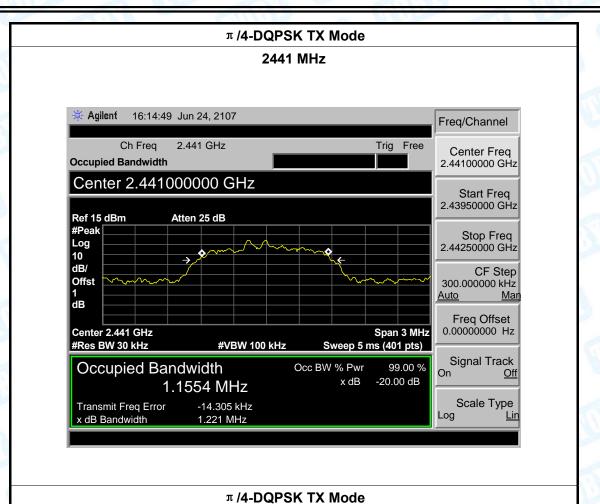
EUT:	Ads machine		Model Name :	10.1"
Temperature:	25°		Relative Humidity:	55%
Test Voltage:	AC	120V/60Hz		133
Test Mode:	TX	Mode (π/4-DQPSK)	W CO	
Channel frequency (MHz)		99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402		1161.5	1222	814.67
		1101.5	1222	014.07
2441		1155.4	1221	814.00

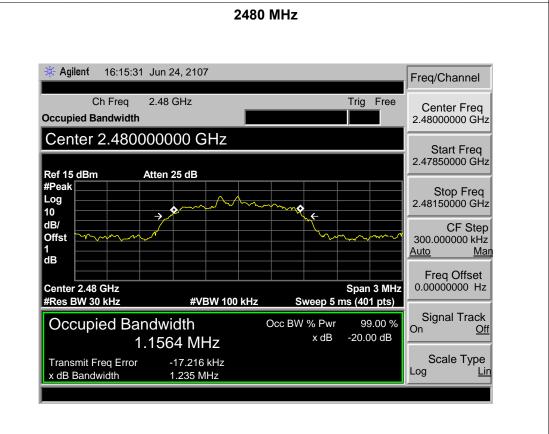
π/4-DQPSK TX Mode





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2480

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812.67

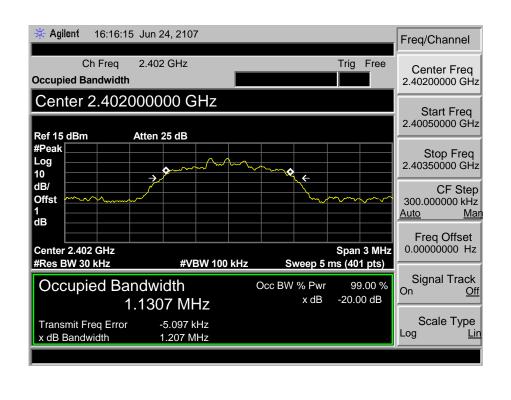
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EUT:	Ads	s machine	Model Name :	10.1"
Temperature:	25℃		Relative Humidity:	55%
Test Voltage:	AC	120V/60Hz		
Test Mode:	TX	Mode (8-DPSK)		
Channel frequency (MHz)		99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402		1130.7	1207	804.67
2441 1143.0		1218	812.00	

8-DPSK TX Mode

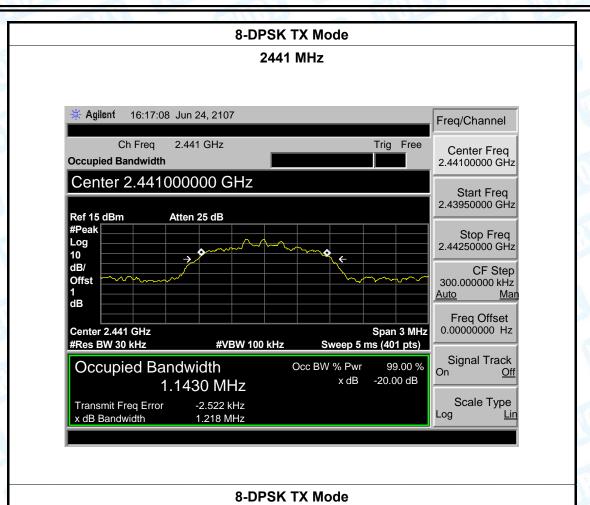
1219

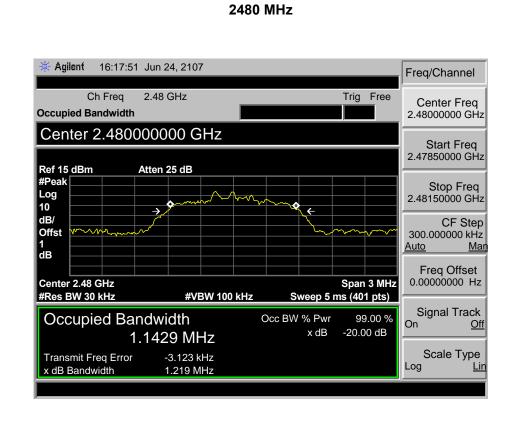
1142.9





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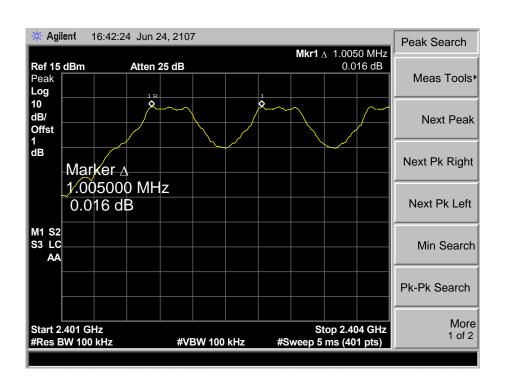
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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

Test Mode: Hopping Mode (GFSK)

Channel frequency	Separation Read Value	Separation Limit
(MHz)	(kHz)	(kHz)
2402	1005	856.005
2441	997.5	852.265
2480	997.5	845.496

GFSK Hopping Mode

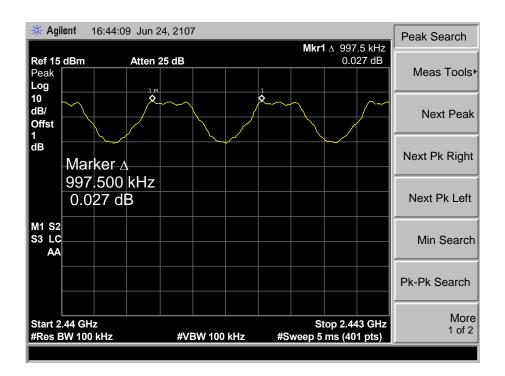




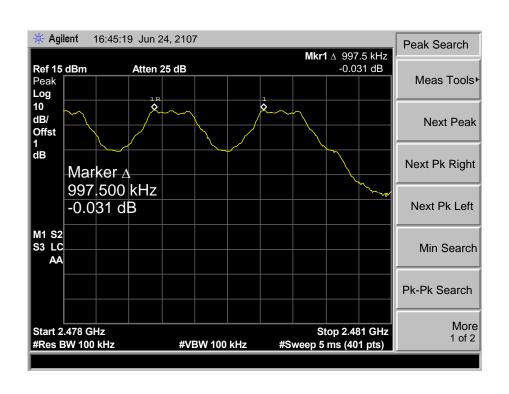
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GFSK Hopping Mode





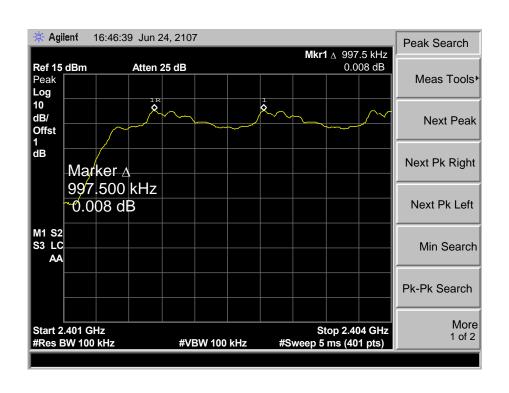
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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

Test Mode: Hopping Mode (π /4-DQPSK)

Channel frequency	Separation Read Value	Separation Limit				
(MHz)	(kHz)	(kHz)				
2402	997.5	814.67				
2441	1005	814.00				
2480	1005	823.33				

π /4-DQPSK Hopping Mode

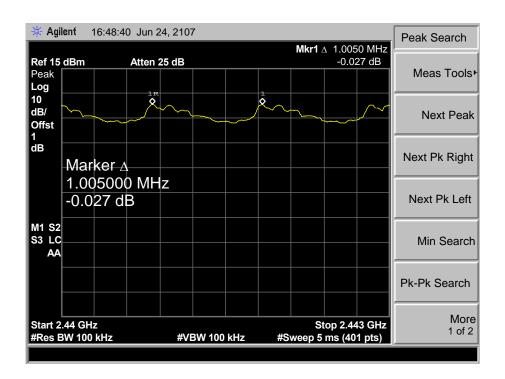




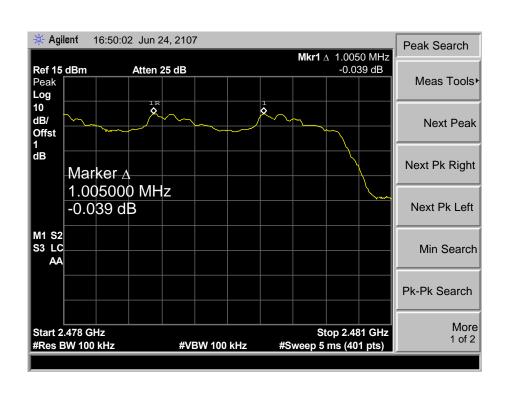
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π /4-DQPSK Hopping Mode

2441 MHz



π /4-DQPSK Hopping Mode





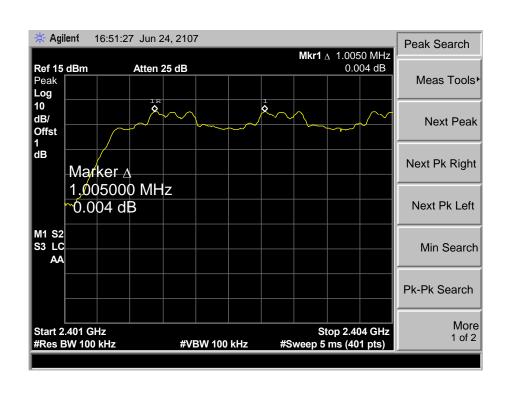
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EUT:	Ads machine	Model Name :	10.1"
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

Test Mode: Hopping Mode (8-DPSK)

Channel frequency	Separation Read Value	Separation Limit			
(MHz)	(kHz)	(kHz)			
2402	1005	804.67			
2441	997.5	812.00			
2480	997.5	812.67			

8-DPSK Hopping Mode

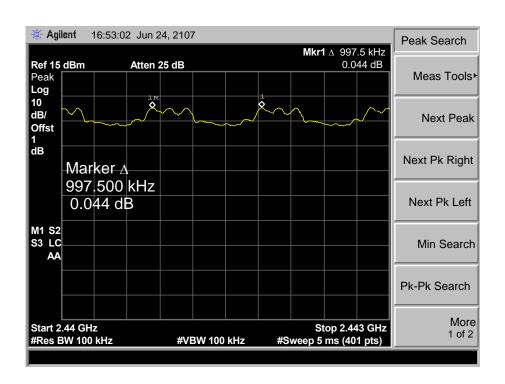




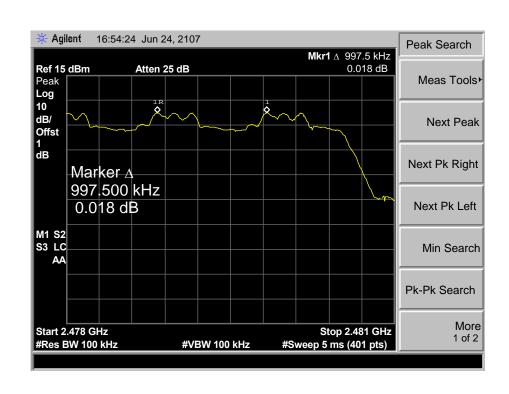
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8-DPSK Hopping Mode

2441 MHz



8-DPSK Hopping Mode





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10. Peak Output Power Test

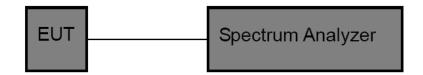
10.1 Test Standard and Limit

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)	2400~2483.5
	Other <125 mW(21dBm)	

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.



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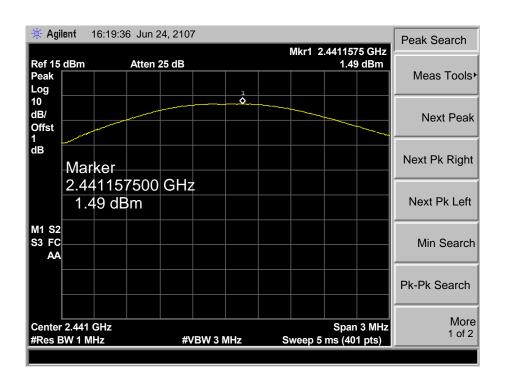
10.5 Test Data

:	A	ds mach	ine		Model	Name :	10.1"
perature:	2	5℃		Ulla	Relative	e Humidity:	55%
Voltage:	А	C 120V/	60Hz			Like I	O VI
Mode:	T	X Mode	(GFSK)	1	1 W		133
nnel freq	uency	(MHz)	Tes	t Resul	t (dBm)		Limit (dBm
24	02			1.65	3		
24	41			1.49	0		30
24	80			1.05	3		
			G	FSK TX	Mode		
				2402 N	lHz		
* Agil	en f 16:1	18:56 Jun 2	24 2107				
A right	U III 10.1	10.50 Juli 2	-4, 2107		Mkr1 2.	4021275 GHz	Peak Search
Ref 15 Peak	dBm	Atten	25 dB			1.653 dBm	Meas Tools
Log 10				1			
dB/				Ť			Next Peak
Offst 1	سهممممر						
dB	Marke	r					Next Pk Right
		1 127500	GHz				
	1.653	dBm					Next Pk Left
M1 S2							
				+-+			Min Search
S3 FC							
S3 FC AA							
							Pk-Pk Search
AA	2.402 GH:	z	#VBW			Span 3 MHz ms (401 pts)	Pk-Pk Search More 1 of 2

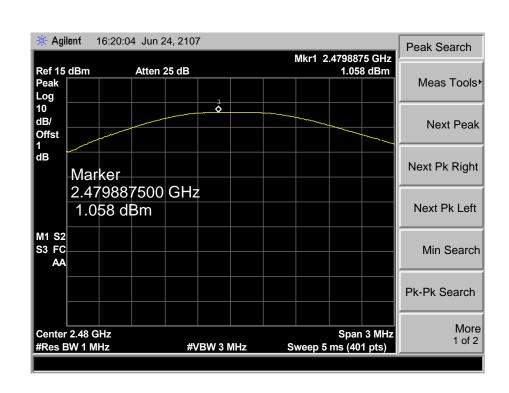


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GFSK TX Mode 2441 MHz



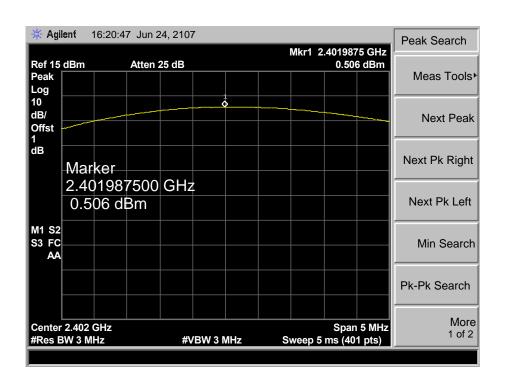
GFSK TX Mode





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EUT:	Ads mach	nine	Model Name :	10.1"	
Temperature:	25℃		Relative Humidity:	55%	
Test Voltage:	AC 120V/	AC 120V/60Hz			
Test Mode:	TX Mode (π /4-DQPSK)				
Channel frequency (MHz) Test Result		Test Result	(dBm) L	imit (dBm)	
2402		0.506			
2441		0.508		21	
2480		0.189			
π /4-DQPSK TX Mode					

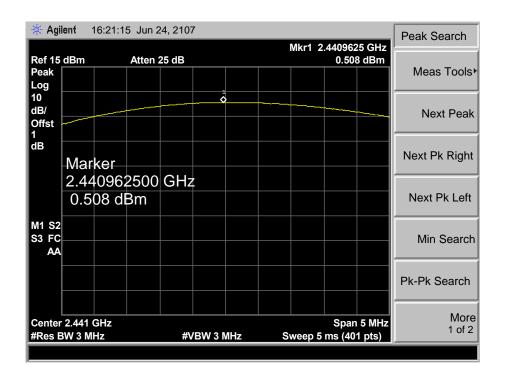




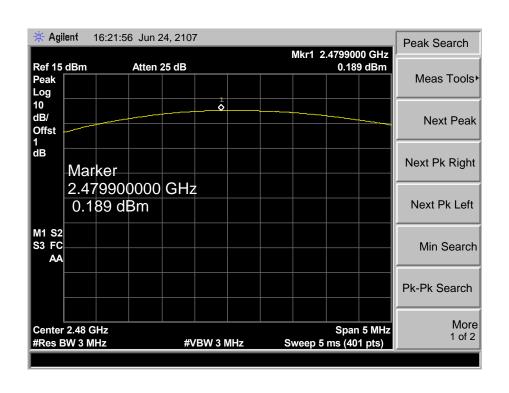
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π /4-DQPSK TX Mode

2441 MHz



π/4-DQPSK TX Mode

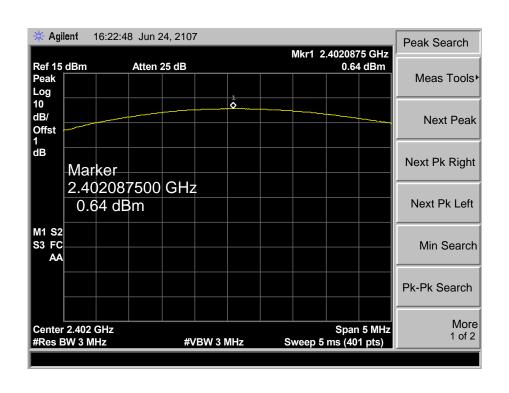




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EUT:	Ads machine		Model Name :	10.1"	
Temperature:	25℃		Relative Humidity:	55%	
Test Voltage:	AC 120V/	AC 120V/60Hz			
Test Mode:	TX Mode	(8-DPSK)			
Channel frequen	cy (MHz)	Test Result (d	dBm) Lir	mit (dBm)	
2402		0.640			
2441		0.623	23 21		
2480		0.241			
		O DDCK TV I	lada		

8-DPSK TX Mode

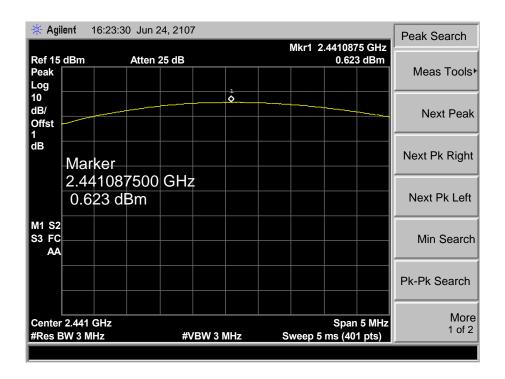




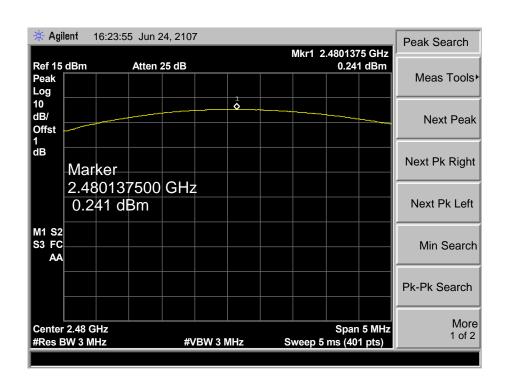
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2441 MHz



8-DPSK TX Mode





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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 4.3dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

11.3 Result

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

Antenna Type	
The state of the s	Permanent attached antenna
The state of the s	⊠Unique connector antenna
	☐Professional installation antenna

----END OF REPORT----