

FCC TEST REPORT

FOR

Shenzhen Big Master Technology Co., Ltd

Product Name: Tablet PC

Model No.: A7-3D

Prepared for : Shenzhen Big Master Technology Co., Ltd

Address : Blog 6-7, Caifa Technology Industrial Park, Guanlan Town,

Longhua New District, Shenzhen City, Guangdong, China

Prepared by : SHENZHEN POCE TECHNOLOGY CO., LTD.

Address : H Building, Hongfa Science And Technology Park, Tangtou,

Shiyan, Bao' An District, Shenzhen, China

Date of receipt of test sample : July 08, 2015

Number of tested samples : 1

Serial number : Prototype

Date of Test : July 08, 2015 – August 7, 2015

Date of Report : August 7, 2015

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen POCE Technology Co., Ltd.



FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247)

Report Reference No.: POCE15072103QCT

Date of Issue: August 7, 2015

Testing Laboratory Name.....: SHENZHEN POCE TECHNOLOGY CO., LTD.

Address : H Building, Hongfa Science And Technology Park, Tangtou,

Shiyan, Bao' An District, Shenzhen, China

Testing Location/ Procedure : Full application of Harmonised standards ■

Partial application of Harmonised standards \square

Other standard testing method \Box

Applicant's Name.....: Shenzhen Big Master Technology Co., Ltd

Address : Blog 6-7, Caifa Technology Industrial Park, Guanlan Town,

Longhua New District, Shenzhen City, Guangdong, China

Test Specification

Standard : FCC CFR 47 PART 15 Subpart C, ANSI C63.10-2009

Test Report Form No.....: POCEEMC-1.0

TRF Originator: SHENZHEN POCE TECHNOLOGY CO., LTD.

Master TRF : Dated 2015-06-11

SHENZHEN POCE TECHNOLOGY CO., LTD.

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Test Item Description. . . . Tablet PC

Trade Mark : N/A

Model/ Type reference : A7-3D

Ratings.....: DC 5.0V form adapter input AC 120V/60Hz

Result : Positive

Compiled by: Supervised by: Approved by:

Heyew Alan Machael Mo

Hellen Hu/ File administrators Alan Cao/ Technique principal Machael Mo/ Manager



Roots of The EUT				
EUT	: Tablet PC			
Type / Model	: A7-3D			
Applicant	: Shenzhen Big Master Technology Co., Ltd			
Address	: Blog 6-7, Caifa Technology Industrial Park, Guanlan Town,			
	Longhua New District, Shenzhen City, Guangdong, China			
Telephone	: /			
Fax	: /			
Manufacturer	: Shenzhen Big Master Technology Co., Ltd			
Address	: Blog 6-7, Caifa Technology Industrial Park, Guanlan Town,			
	Longhua New District, Shenzhen City, Guangdong, China			
Telephone	: /			
Fax	: /			
Factory	: Shenzhen Big Master Technology Co., Ltd			
Address	: Blog 6-7, Caifa Technology Industrial Park, Guanlan Town,			
	Longhua New District, Shenzhen City, Guangdong, China			
Telephone	: /			
Fax	: /			

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1. SUMMARY OF TEST RESULTS

1.1. Test Summary

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Result	Remark
15.207	Conducted Emission	PASS	
15.209 15.247(d)	Radiated Emission	PASS	
15.247 (a)(1)	Conducted Spurious Emission	PASS	
15.247 (d)	Band Edge Compliance	PASS	
15.215	20dB&99% Bandwidth	PASS	
15.247 (b)(1)	Maximum Peak Output Power	PASS	
15.247 (a)(1)	Carrier Frequency separation	PASS	
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.203	Antenna Requirement	PASS	

1.2. General Test Procedures

1.2.1. Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

1.2.2. Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4



2. GENERAL INFORMATION

2.1. Description of EUT

EUT : Tablet PC

Model Number : A7-3D

Brand Name : N/A

Operation Frequency : IEEE 802.11b: 2412-2462 MHz

IEEE 802.11g: 2412-2462 MHz

IEEE 802.11n: 2412-2462 MHz(HT 20),

2422-2452 MHz(HT 40)

Bluetooth(2.1+EDR):2402-2480MHz

Modulation : IEEE 802.11b: DSSS

Technology IEEE 802.11g: OFDM

IEEE 802.11n: OFDM

Bluetooth(2.1+EDR): GFSK, π/4DQPSK, 8-DPSK

Power Supply : DC 5.0V form adapter input AC 120V/60Hz

Antenna description : Integral 2.0dBi

Note: 1. For a more detailed features description, please refer to the manufacturer's

specifications or the User's Manual.



2.1.1. Channel List

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

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note

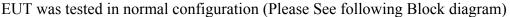
Item	Shielded Type	Ferrite Core	Length	Note
1	Unshielded	No	150cm	Power cable
2	Unshielded	No	10cm	Tieline
3	Unshielded	No	72cm	USB cable

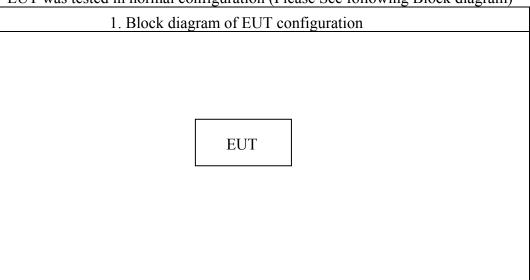
Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.3. Description of Test Conditions





2.4. Test Facility

Shenzhen POCE Technology Co., Ltd.

Add.: H Building, Hongfa science and Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China

FCC Registered No.: 222278

2.5. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U_{\tau}$ 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 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Frequency Stability	<± 1 x 10-7
7	Necessary bandwidth	<±5%
8	Temperature/humidity	0.6℃/3%



2.6. Test Conditions and Channel

The test software was used to control E.U.T. work in Continuous Tx mode (>98% duty cycle), and select test channel, wireless mode and data rate.

The test software "bluesuite.exe" was used to control EUT work in continuous TX mode, and select test channel.

Tested mode, channel, and date rate inform				
Test mode	Data rate(MHz) Test Frequency (MHz)			
T 1-	1	2402		
Tx mode GFSK	1	2441		
OLSK	1	2480		
TX mode 8-DPSK	3	2402		
	3	2441		
	3	2480		

Note: π /4DQPSK, modulation is same type modulation with 8-DPSK, and the pre-test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.



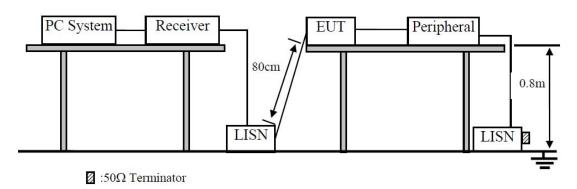
2.7. EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4408B	CFG006	Nov. 08, 2015
2	Test Receiver	R&S	ESPI	102109	Nov. 08, 2015
3	Test Receiver	R&S	ESCI	101431	Nov. 08, 2015
4	Bilog Antenna	Model JB6	CBL6111D	A090414	Nov. 08, 2015
5	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Nov. 08, 2015
6	Spectrum Analyzer	ADVANTEST	R3132	150900201	Nov. 08, 2015
7	Horn Ant	Schwarzbeck	Model DRH-118	A091114	Nov. 08, 2015
8	Low Fre.Amplifier	Schwarzbeck	BBV9743	9743-151	Nov. 08, 2015
9	High Fre. AMP	Schwarzbeck	BBV9718	9718-282	Nov. 08, 2015
10	Loop Antenna	ARA	PLA-2030/B	1029	Nov. 08, 2015
11	Power Meter	R&S	NRVS	100696	Nov. 08, 2015
12	Signal Generator	R&S	SMT 06	832080/007	Nov. 08, 2015
13	Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	Nov. 08, 2015
14	Power Sensor (AV)	R&S	URV5-Z4	0395.1619.05	Nov. 08, 2015
15	Power Sensor	Anritsu	ML2487A	6K0002472	Nov. 08, 2015
16	Power Sensor	Anritsu	MA2491A	0033005	Nov. 08, 2015
17	Noise Generaror	Ningbo Zhongce	DF1681	EMC0009	Nov. 08, 2015
18	Spectrum analyzer	Agilent	N9030A	MY51380221	Nov. 08, 2015
19	Wireless communication	Agilent	E5515C	GB44300243	Nov. 08, 2015



3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Power Line Conducted Emission Test Limits

Frequency Range	Limits (dBμV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56*	56 to 46*	
0.50 to 5	56	46	
5 to 30	60	50	

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 2.3.
- 3.4.2. Turned on the power of all equipment.
- 3.4.3. PC run test software to control EUT work in Tx mode.



3.5. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network. This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.

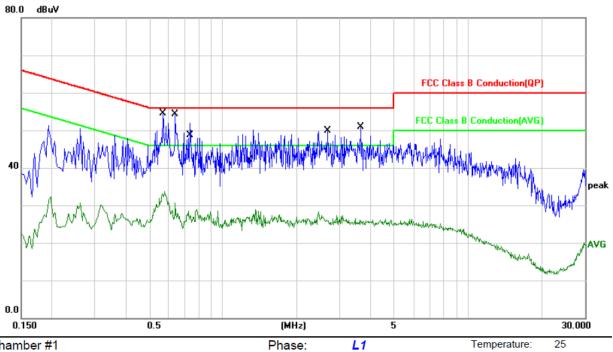
The bandwidth of test receiver (R&S ESCI3) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.6. Power Line Conducted Emission Test Results

Pass (The testing data was attached in the next pages.)





Site Chamber #1

Limit: FCC Class B Conduction(QP)

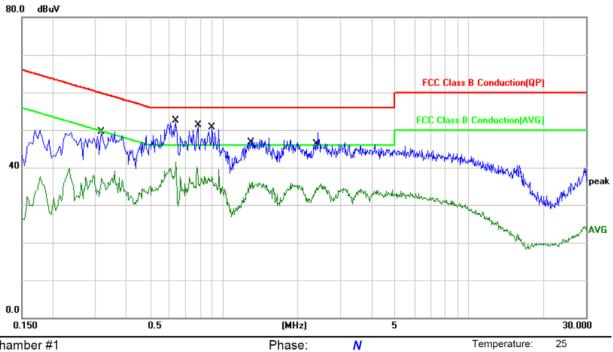
Power:

Humidity: 45 %

EUT: M/N: Mode: Note:

No. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	k	0.5737	33.93	9.96	43.89	56.00	-12.11	QP	
2		0.5737	22.53	9.96	32.49	46.00	-13.51	AVG	
3		0.6355	28.95	9.95	38.90	56.00	-17.10	QP	
4		0.6355	16.81	9.95	26.76	46.00	-19.24	AVG	
5		0.7477	27.08	9.94	37.02	56.00	-18.98	QP	
6		0.7477	15.98	9.94	25.92	46.00	-20.08	AVG	
7		1.2859	26.88	9.84	36.72	56.00	-19.28	QP	
8		1.2859	15.05	9.84	24.89	46.00	-21.11	AVG	
9		2.6882	24.83	9.83	34.66	56.00	-21.34	QP	
10		2.6882	14.79	9.83	24.62	46.00	-21.38	AVG	
11		3.6340	25.42	9.81	35.23	56.00	-20.77	QP	
12		3.6340	14.56	9.81	24.37	46.00	-21.63	AVG	





Site Chamber #1

Limit: FCC Class B Conduction(QP)

Power:

Humidity:

45 %

EUT: M/N: Mode: Note:

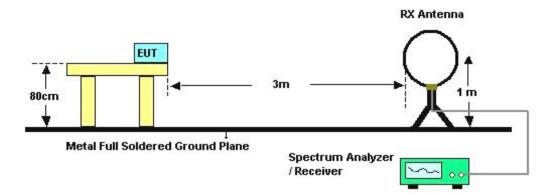
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3218	33.46	10.31	43.77	59.66	-15.89	QP	
2		0.3218	25.51	10.31	35.82	49.66	-13.84	AVG	
3		0.6373	41.29	10.33	51.62	56.00	-4.38	QP	
4	*	0.6373	31.34	10.33	41.67	46.00	-4.33	AVG	
5		0.7811	37.26	10.32	47.58	56.00	-8.42	QP	
6		0.7811	28.34	10.32	38.66	46.00	-7.34	AVG	
7		0.8972	32.78	10.30	43.08	56.00	-12.92	QP	
8		0.8972	25.84	10.30	36.14	46.00	-9.86	AVG	
9		1.2807	30.40	10.26	40.66	56.00	-15.34	QP	
10		1.2807	22.42	10.26	32.68	46.00	-13.32	AVG	
11		2.4038	28.27	10.15	38.42	56.00	-17.58	QP	
12		2.4038	21.35	10.15	31.50	46.00	-14.50	AVG	



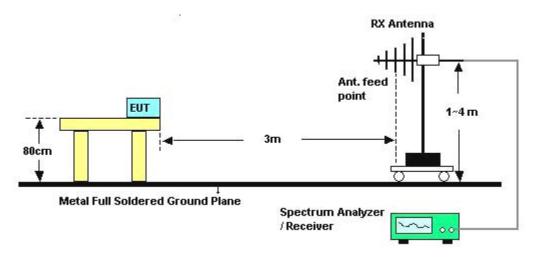
4. RADIATED EMISSIONS MEASUREMENT

4.1. Block Diagram of Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



4.2. Radiated Emission Limit

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a). then the 15.209(a) limit in the table below has to be followed.



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

4.3. EUT Configuration on Test

The configurations of EUT are listed in Section 3.2.

4.4. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.3. except the test setup replaced by Section 4.1.

4.5. Test Procedures

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

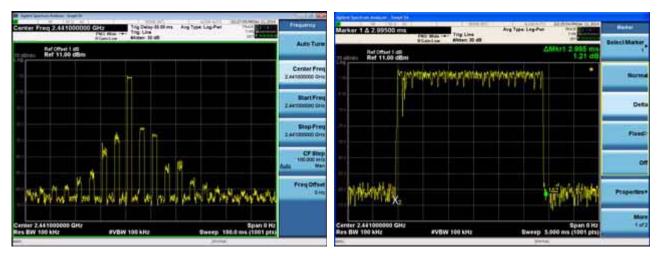
The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.



4.6. Radiated Emission Test Results



Duty cycle factor = $20\log \text{ (Dwell time/100ms)} = -30.472$

Note: The duty cycle factor for calculate average level is -30.472 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Temperature	25℃	Humidity	60%				
Test Engineer	Alan	Test frequency	9KHz-30MHz				
Configurations	Normal Link						

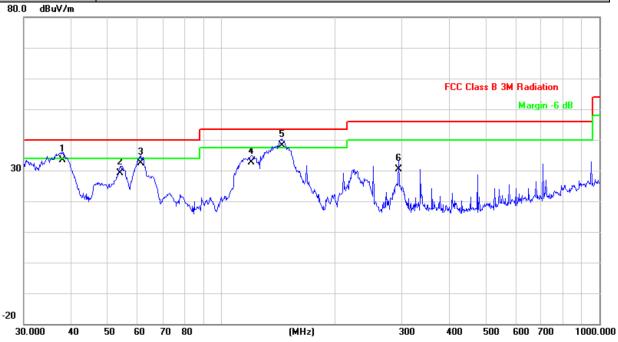
Freq MHz	Level dBuV/m	Read Level dBuV	Ant. Fac dB/m	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
						-		See Note	
								See Note	

Note:

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



Temperature	25℃	Humidity	60%			
Test Engineer	Alan	Test frequency	30MHz-1G			
Configurations	Normal Link					



Site Chamber #1

Limit: FCC Class B 3M Radiation

EUT:

M/N: Mode: Note:

Polarization: Vertical

AC 120V/60Hz Power:

Distance: 3m

Reading Correct Measure-Antenna Table Limit Over No. Mk. Freq. Level Factor ment Height Degree MHz dBu∀ dBuV/m dBuV/m dΒ dB/m Detector cm degree Comment 1 37.9450 45.12 33.43 40.00 -6.57 QP -11.69 2 53.8818 49.21 -20.07 29.14 40.00 -10.86 QP 3 61.1316 52.14 -19.64 32.50 40.00 -7.50 QP 4 119.8556 47.25 -14.73 32.52 43.50 -10.98 QP 5 144.3348 50.01 -11.95 38.06 43.50 -5.44 QΡ 6 294.1137 41.98 -11.65 30.33 46.00 -15.67 QP

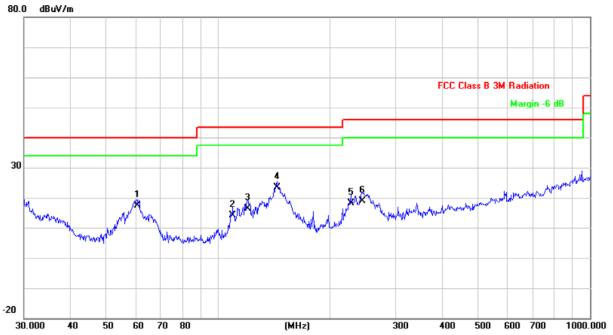
Temperature:

Humidity:

25

45 %





Site Chamber #1

Limit: FCC Class B 3M Radiation

EUT:

M/N: Mode: Note: Polarization: *Horizontal* Temperature: 25
Power: AC 120V/60Hz Humidity: 45 %

Distance: 3m

No. N	Иk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	60.4919	37.10	-19.64	17.46	40.00	-22.54	QP			
2	109.411	6 30.14	-16.00	14.14	43.50	-29.36	QP			
3	119.855	6 31.05	-14.73	16.32	43.50	-27.18	QP			
4 *	143.829	5 35.41	-12.03	23.38	43.50	-20.12	QP			
5	227.690	6 31.89	-13.74	18.15	46.00	-27.85	QP			
6	244.232	1 31.98	-13.05	18.93	46.00	-27.07	QP			



Temperature	25℃	Humidity	60%			
Test Engineer	Alan	Test frequency	1G-18G			
Configurations	GFSK 2402MHz TX					

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4804	52.67	45.71	33.06	35.04	8.94	74	-21.33	Peak	Horizontal
4804	52.67		-30.47				-31.8	Average	Horizontal
7206	55.49	46.28	34.12	35.27	10.36	74	-18.51	Peak	Horizontal
7206	55.49		-30.4	1 7		54	-28.98	Average	Horizontal
4804	51.63	44.67	33.06	35.04	8.94	74	-22.37	Peak	Vertical
4804	51.63		-30.47				-32.84	Average	Vertical
7206	57.44	48.23	34.12	35.27	10.36	74	-16.56	Peak	Vertical
7206	57.44		-30.47				-27.03	Average	Vertical



Temperature	25℃	Humidity	60%
Test Engineer	Alan	Test frequency	1G-18G
Configurations	:TX		

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4882	53.09	46.13	33.06	35.04	8.94	74	-20.91	Peak	Horizontal
4882	53.09		-30.47				-31.38	Average	Horizontal
7323	57.05	47.84	34.12	35.27	10.36	74	-16.95	Peak	Horizontal
7323	57.05		-30.4	17		54	-27.42	Average	Horizontal
4882	50.33	43.37	33.06	35.04	8.94	74	-23.67	Peak	Vertical
4882	50.33		-30.47				-34.14	Average	Vertical
7323	56.76	47.55	34.12	35.27	10.36	74	-17.24	Peak	Vertical
7323	56.76		-30.4	17		54	-27.71	Average	Vertical



Temperature	25℃	Humidity	60%		
Test Engineer	Alan	Test frequency	1G-18G		
Configurations GFSK 2480MHz TX					

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4960	51.77	44.81	33.06	35.04	8.94	74	-22.23	Peak	Horizontal
4960	51.77		-30.47				-32.70	Average	Horizontal
7440	55.94	46.73	34.12	35.27	10.36	74	-18.06	Peak	Horizontal
7440	55.94		-30.4	1 7		54	-28.53	Average	Horizontal
4960	46.15	39.19	33.06	35.04	8.94	74	-27.85	Peak	Vertical
4960	46.15		-30.47				-38.32	Average	Vertical
7440	55.47	46.26	34.12	35.27	10.36	74	-18.53	Peak	Vertical
7440	55.47		-30.4	1 7		54	-29.00	Average	Vertical



Temperature	25℃	Humidity	60%
Test Engineer	Alan	Test frequency	1G-18G
Configurations		8-DPSK 2402MH	z TX

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4804	52.09	45.13	33.06	35.04	8.94	74	-21.91	Peak	Horizontal
4804	52.09		-30.47				-32.38	Average	Horizontal
7206	55.02	45.81	34.12	35.27	10.36	74	-18.98	Peak	Horizontal
7206	55.02		-30.4	1 7		54	-29.45	Average	Horizontal
4804	50.75	43.79	33.06	35.04	8.94	74	-23.25	Peak	Vertical
4804	50.75	-30.47				54	-33.72	Average	Vertical
7206	56.37	47.16	34.12	35.27	10.36	74	-17.63	Peak	Vertical
7206	56.37		-30.4	17		54	-28.10	Average	Vertical



Temperature	25℃	Humidity	60%
Test Engineer	Alan	Test frequency	1G-18G
Configurations		8-DPSK 2441MH	z TX

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4882	52.29	45.33	33.06	35.04	8.94	74	-21.71	Peak	Horizontal
4882	52.29		-30.47				-32.18	Average	Horizontal
7323	54.58	45.37	34.12	35.27	10.36	74	-19.42	Peak	Horizontal
7323	54.58		-30.4	1 7		54	-29.89	Average	Horizontal
4882	50.12	43.16	33.06	35.04	8.94	74	-23.88	Peak	Vertical
4882	50.12		-30.47				-34.35	Average	Vertical
7323	57.58	48.37	34.12	35.27	10.36	74	-16.42	Peak	Vertical
7323	57.58		-30.4	17		54	-26.89	Average	Vertical



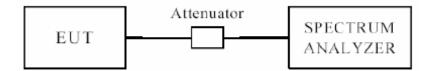
Temperature	25℃	Humidity	60%
Test Engineer	Alan	Test frequency	1G-18G
Configurations		8-DPSK 2480MH	z TX

Freq GHz	Level dBuV/m	Read Level dBuV	Ant. Fac	Pre. Fac	Cab.Los dB	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
4960	53.18	46.22	33.06	35.04	8.94	74	-20.82	Peak	Horizontal
4960	53.18		-30.47				-31.29	Average	Horizontal
7440	54.92	45.71	34.12	35.27	10.36	74	-19.08	Peak	Horizontal
7440	54.92		-30.4	1 7		54	-29.55	Average	Horizontal
4960	48.91	41.95	33.06	35.04	8.94	74	-25.09	Peak	Vertical
4960	48.91	-30.47				54	-35.56	Average	Vertical
7440	57.99	48.78	34.12	35.27	10.36	74	-16.01	Peak	Vertical
7440	57.99		-30.4	17		54	-26.48	Average	Vertical



5. CONDUCTED SPURIOUS EMISSIONS

5.1. Block Diagram of Test Setup



5.2. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

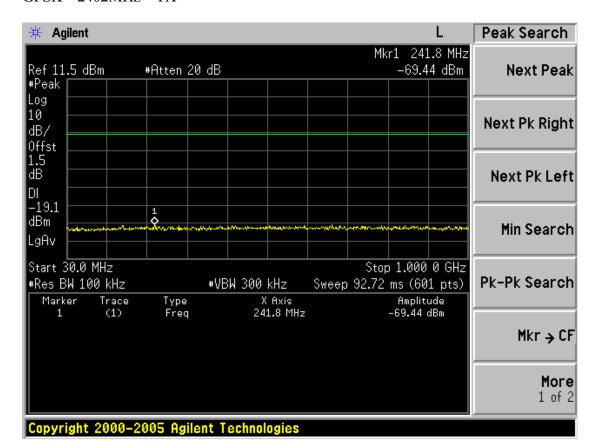
Measurements are made over the 9kHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

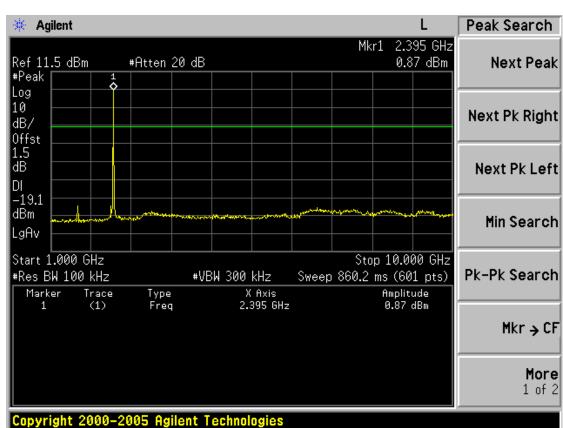
5.4. Test Results

The test data graph please refer to the following page.

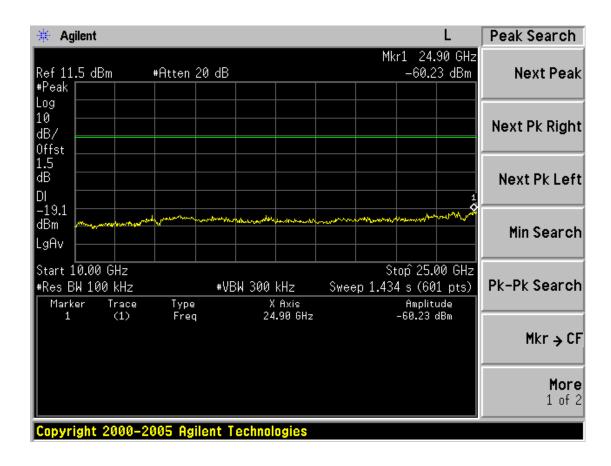


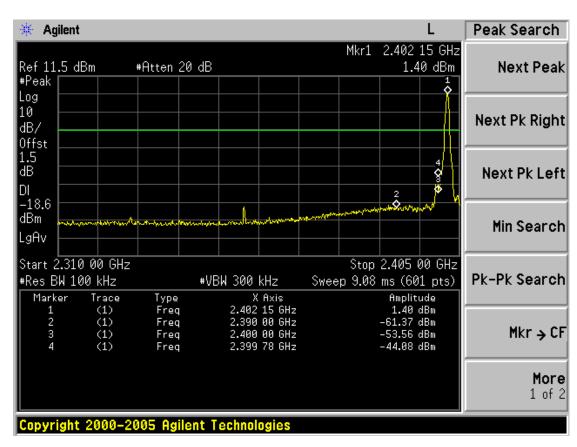
GFSK 2402MHz TX





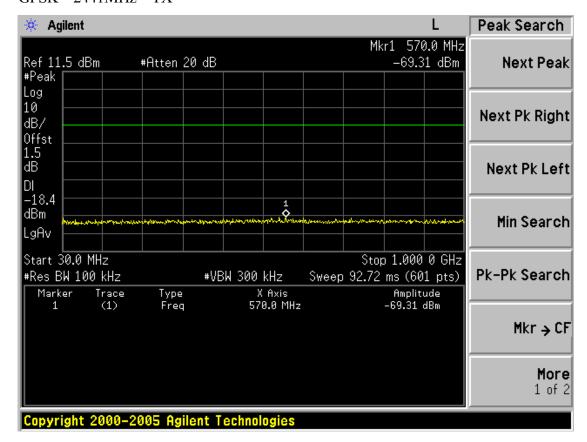


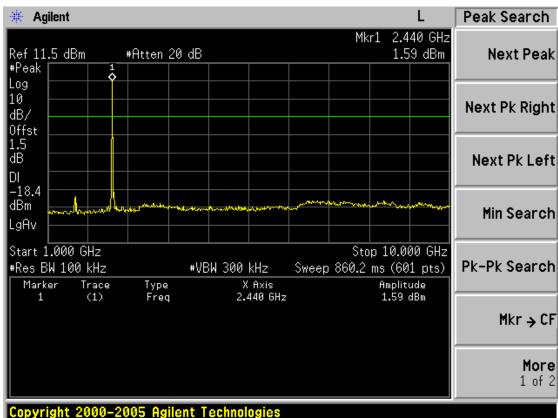




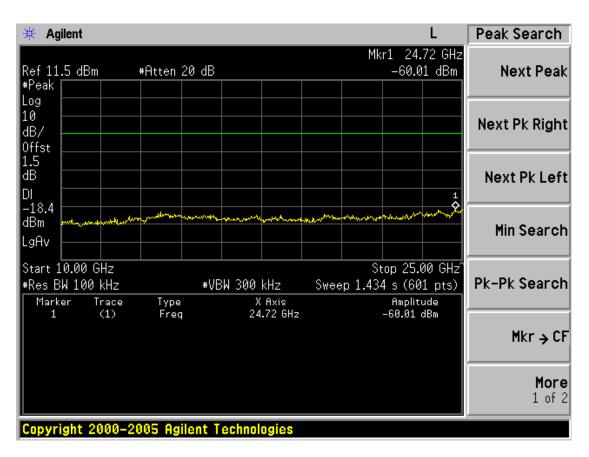


GFSK 2441MHz TX

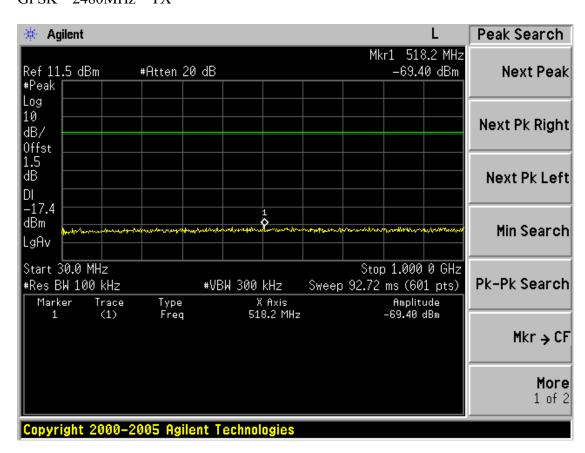




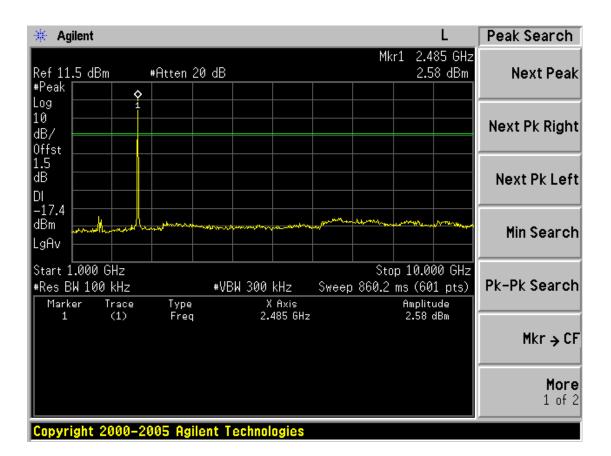


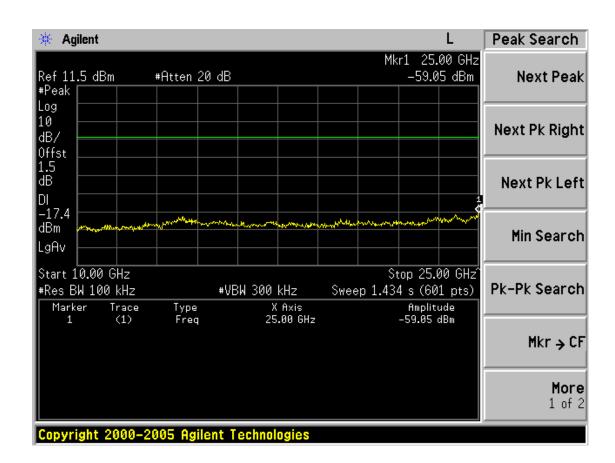


GFSK 2480MHz TX

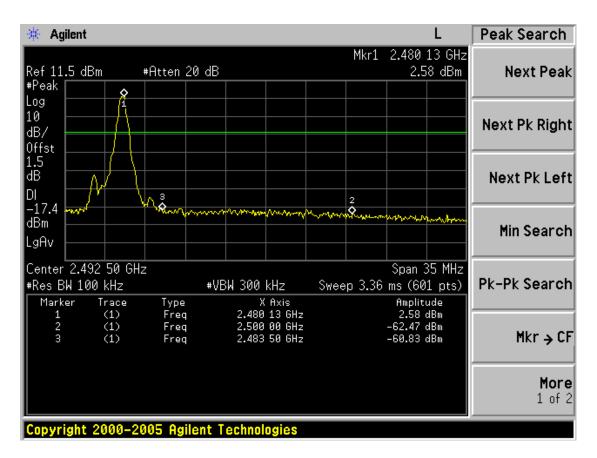




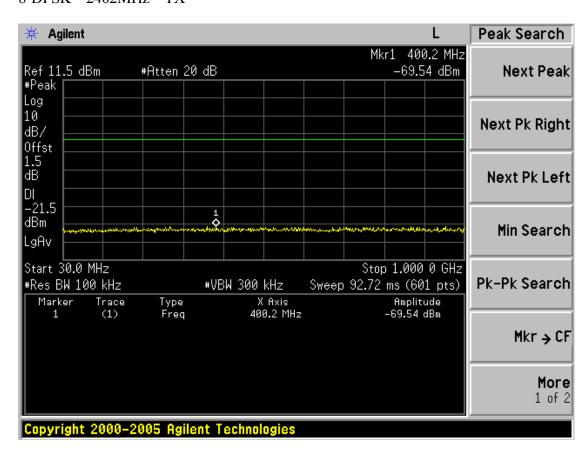




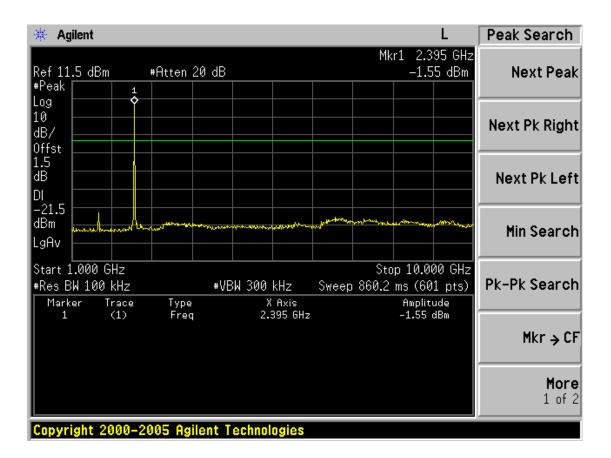


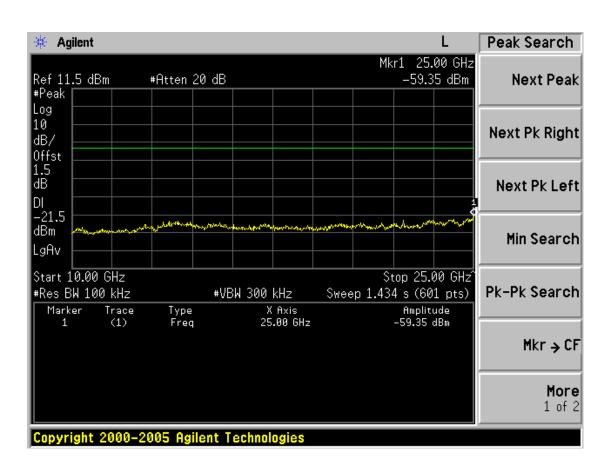


8-DPSK 2402MHz TX

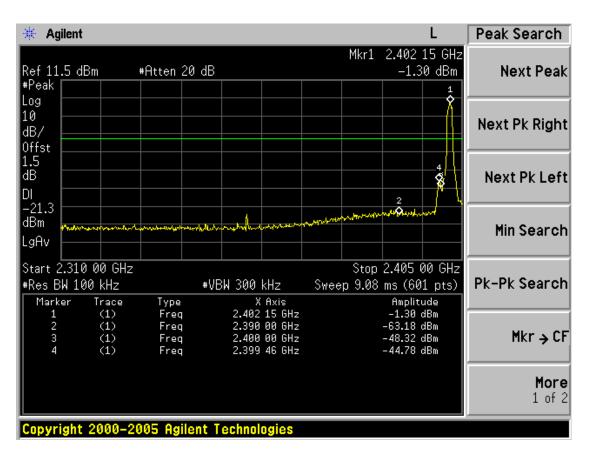




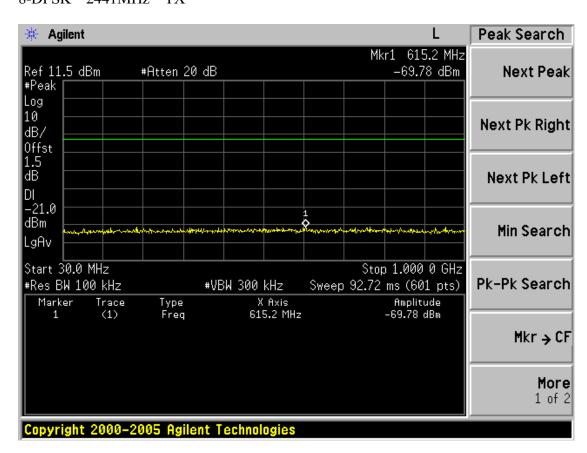




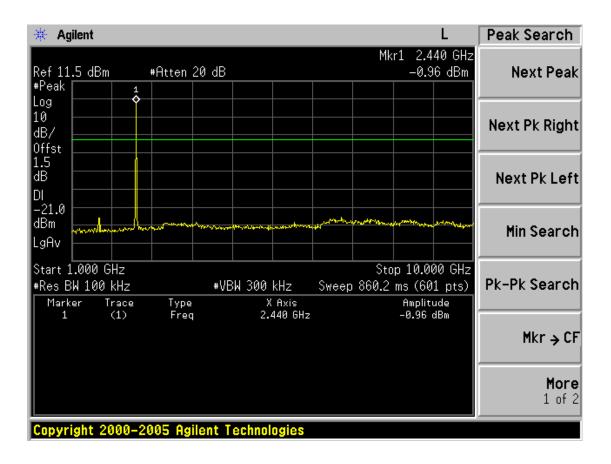


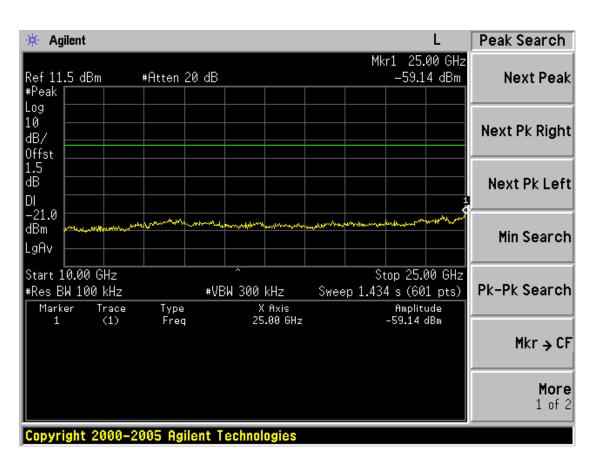


8-DPSK 2441MHz TX



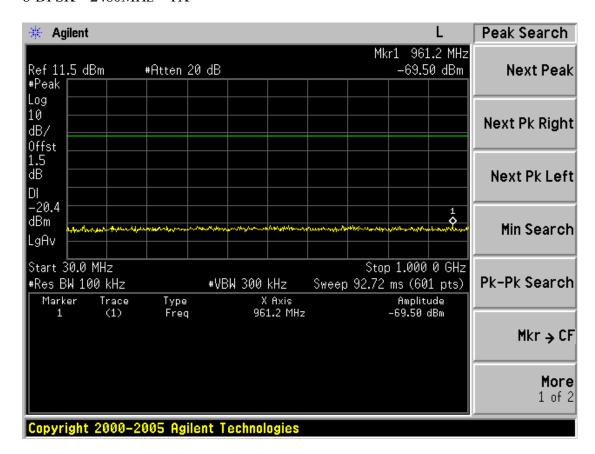


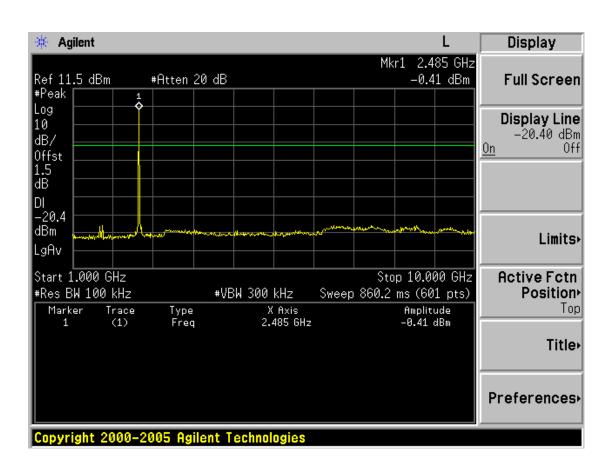




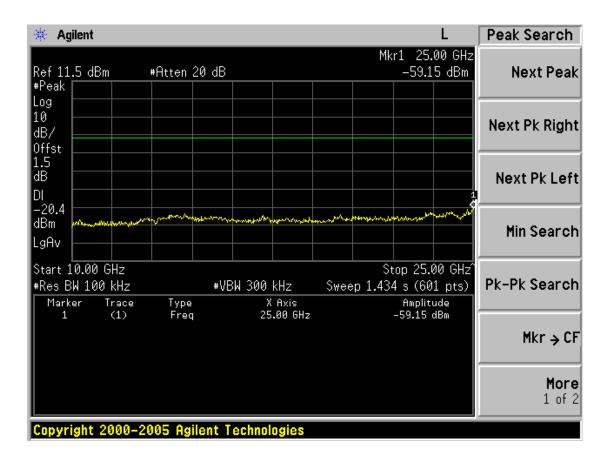


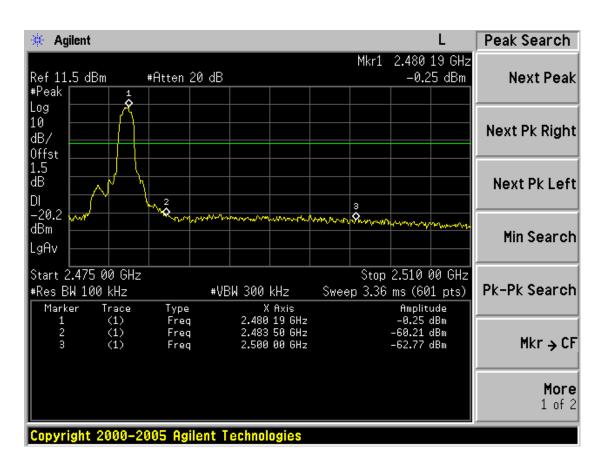
8-DPSK 2480MHz TX













6. BAND EDGE COMPLIANCE TEST

6.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.2. Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
- (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO5.4. Test Results

The test data graph please refer to the following page.

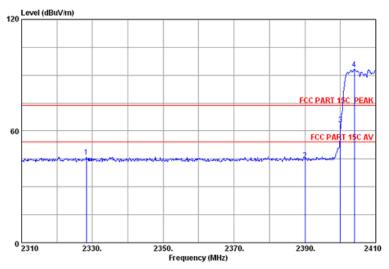
6.3 Test Results

Pass (The testing data was attached in the next pages.)

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



GFSK Hopping on

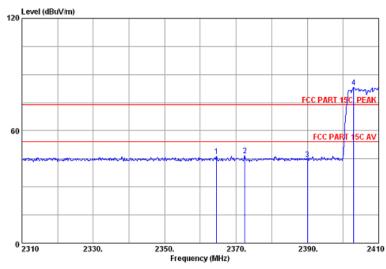


Site no. : 3m Chamber Data no. : 117
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Engineer : Leo-Li

	-	Ant. Factor (dB/m)		Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits Margin (dBuV/m) (dB)	Remark
1	2328.300	27.86	6.62	34.43	46.04	46.09	74.00 27.91	Peak
_	2390.000				44.15	44.39	74.00 29.61	Peak
3	2400.000	27.96	6.75	34.44	63.17	63.44	74.00 10.56	Peak
4	2404.000	27.98	6.75	34.44	92.89	93.18	74.00 -19.18	Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 118

Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

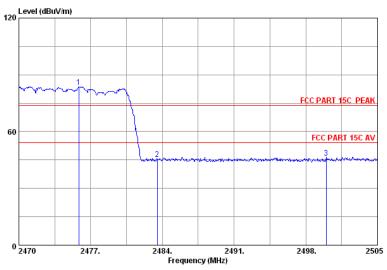
Env. / Ins. : 23*C/54% Engineer : Leo-Li

	•	loss	Factor	Reading (dBuV)	Level (dBuV/m)		_	Remark
_	2364.500	 		46.39 46.57	46.55 46.75	74.00 74.00		Peak Peak
_	2390.000	 		44.52	44.76	74.00		Peak
	2403.000	 		82.84	83.13	74.00		Peak
•		 						

Remarks

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





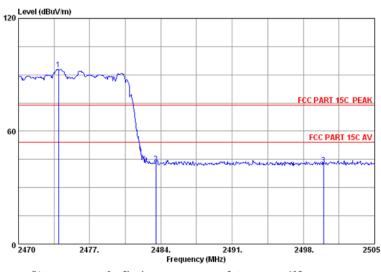
Site no. : 3m Chamber
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Data no. : 119 Ant. pol. : VERTICAL

Engineer : Leo-Li

	•	Factor	loss		Reading	Emission Level (dBuV/m)		_	Remark	
2	2475.845 2483.500 2500.000	28.08	6.90	34.45	44.90	83.60 45.43 46.02	74.00 74.00 74.00	28.57	Peak Peak Peak	

Remarks:

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



Site no. : 3m Chember
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK Data no. : 120 Ant. pol. : HORIZONTAL Env. / Ins. : 23*C/54% Engineer : Leo-Li

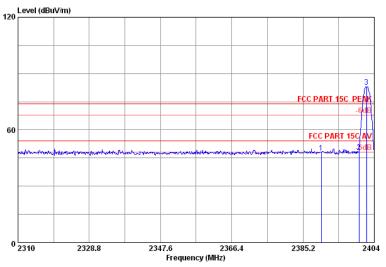
		Factor	loss		_		Limits Margin (dBuV/m) (dB)	Remark
1	2473.920	28.08	6.87	34.45	92.43	92.93	74.00 -18.93	Peak
2	2483.500	28.08	6.90	34.45	42.41	42.94	74.00 31.06	Peak
3	2500.000	28.10	6.90	34.45	41.52	42.07	74.00 31.93	Peak

Remarks:

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



GFSK 2402MHz TX



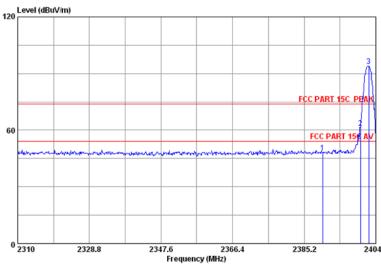
Site no. : 3m Chamber Data no. : 121
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : 23*C/54% Engineer : Leo-Li

Cable Amp. Emission Ant. Freq. Factor loss Factor Reading Level Limits Margin Remark (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1 2390.000 27.96 6.72 34.44 47.67 47.91 74.00 26.09 Peak 2400.000 27.96 6.75 34.44 74.00 25.89 47.84 48.11 Peak 2401.932 27.96 6.75 34.44 82.79 83.06 74.00 -9.06 Peak

Remarks:

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



Site no. : 3m Chamber Data no. : 122
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Engineer : Leo-Li

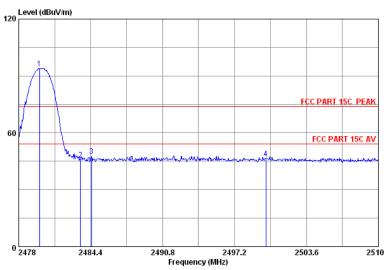
	-	Factor	loss		Reading (dBuV)	Emission Level (dBuV/m)		_	Remark	
2	2390.000 2400.000 2402.120	27.96	6.75	34.44	60.89	47.98 61.16 93.97	74.00 74.00 74.00	12.84	Peak Peak Peak	

Remarks:

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



GFSK 2480MHz TX



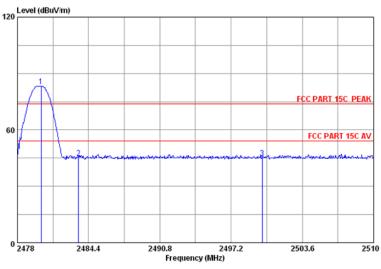
Site no. : 3m Chamber
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Data no. : 123 Ant. pol. : HORIZONTAL

Engineer : Leo-Li

	-		loss	Amp. Factor (dB)		Emission Level (dBuV/m)	Limits Margin (dBuV/m) (dB)	Remark	
2 3	2483.500 2484.464	5 28.08 0 28.08 1 28.08 0 28.10	6.90 6.90	34.45 34.45	93.54 45.40 47.41 45.83	94.04 45.93 47.94 46.38	74.00 -20.04 74.00 28.07 74.00 26.06 74.00 27.62	Peak Peak Peak Peak	

Remarks:

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



Site no. : 3m Chamber
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Data no. : 124 Ant. pol. : VERTICAL Engineer : Leo-Li

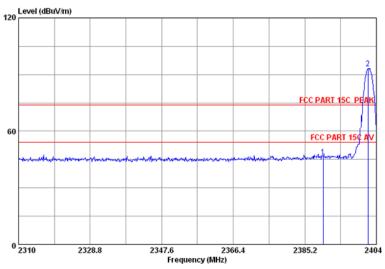
-	Factor			Reading (dBuV)			Margin) (dB)	Remark	
1 2480.14 2 2483.50 3 2500.00	0 28.08	6.90	34.45	44.66	83.34 45.19 45.08	74.00 74.00 74.00	28.81	Peak Peak Peak	

Remarks:

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



8-DPSK 2402MHz TX



Site no. : 3m Chamber Data no. : 125
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Engineer : Leo-Li

 Ant.
 Cable
 Amp.
 Emission

 Freq.
 Factor
 loss
 Factor
 Reading
 Level
 Limits
 Margin
 Remark

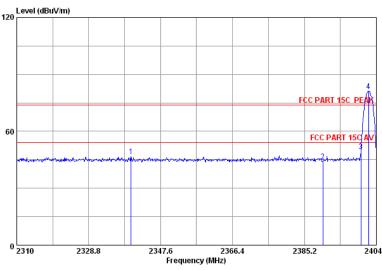
 (MHz)
 (dB/m)
 (dB)
 (dB)
 (dBuV/m)
 (dBuV/m)
 (dB)

1 2390.000 27.96 6.72 34.44 46.06 46.30 74.00 27.70 Peak 2 2401.838 27.96 6.75 34.44 93.09 93.36 74.00 -19.36 Peak

.....

Remarks:

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



Site no. : 3m Chamber Data no. : 126
Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54* Engineer : Leo-Li

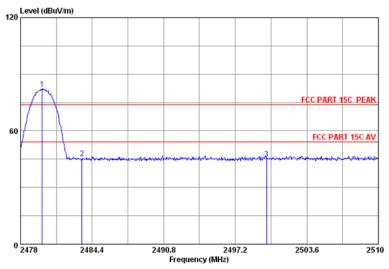
	-	Factor		Factor	Reading (dBuV)	Level (dBuV/m)		_	Remark
1	2339.892	2 27.88	6.65	34.44	46.62	46.71	74.00	27.29	Peak
2	2390.000	27.96	6.72	34.44	43.97	44.21	74.00	29.79	Peak
3	2400.000	27.96	6.75	34.44	49.26	49.53	74.00	24.47	Peak
4	2401.932	27.96	6.75	34.44	81.08	81.35	74.00	-7.35	Peak

Remarks

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



8-DPSK 2480MHz TX



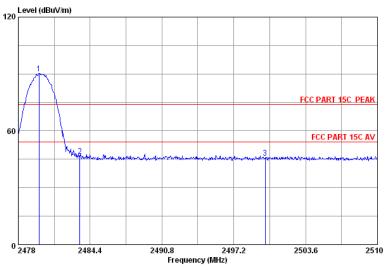
Site no. : 3m Chamber
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK Data no. : 127 Ant. pol. : VERTICAL Limit : FCC PART Env. / Ins. : 23*C/54%

Engineer : Leo-Li

		Ant.	Cable	Amp.		Emission			
	Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.920	28.08	6.87	34.45	81.72	82.22	74.00	-8.22	Peak
2	2483.500	28.08	6.90	34.45	44.80	45.33	74.00	28.67	Peak
3	2500.000	28.10	6.90	34.45	44.67	45.22	74.00	28.78	Peak

Remarks:

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



Data no. : 128 Ant. pol. : HORIZONTAL : 3m Chamber Site no. : 3m chambel
Dis. / Ant. : 3m 2011 3115 4580
Limit : FCC PART 15C PEAK Env. / Ins. : 23*C/54% Engineer : Leo-Li

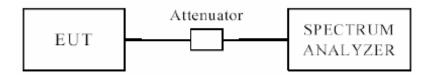
		Ant.	Cable	Amp.		Emission		
	Freq.	Factor	loss	Factor	Reading	Level	Limits Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m) (dB)	
1	2479.856	5 28.08	6.87	34.45	89.81	90.31	74.00 -16.31	Peak
2	2483.500	28.08	6.90	34.45	46.38	46.91	74.00 27.09	Peak
3	2500.000	28.10	6.90	34.45	45.13	45.68	74.00 28.32	Peak

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



7. 20DB BANDWIDTH TEST

7.1. Block Diagram of Test Setup



7.2. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30Hz RBW and 100 kHz VBW.

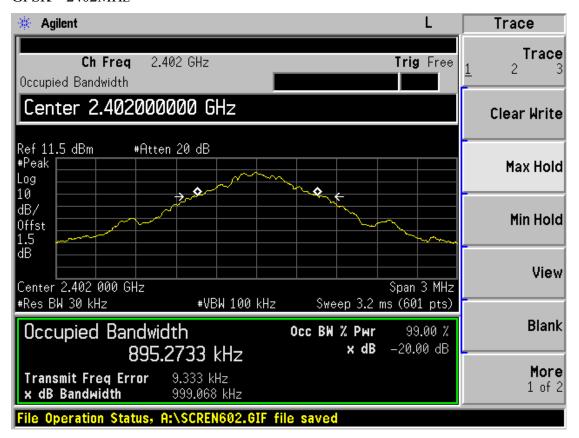
7.4. Test Results

Pass

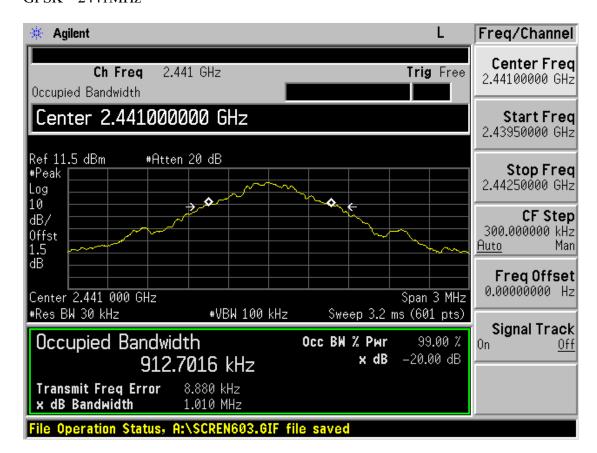
Test mode	Channel	20dB Bandwidth	Limit			
		(MHz) (kHz				
	2402	0.999068	N/A			
GFSK	2441	2441 1.010 N/A	N/A			
	2480	1.023	N/A			
	2402	1.268	N/A			
8DPSK	2441	1.269	N/A			
	2480	1.269	N/A			



GFSK 2402MHz

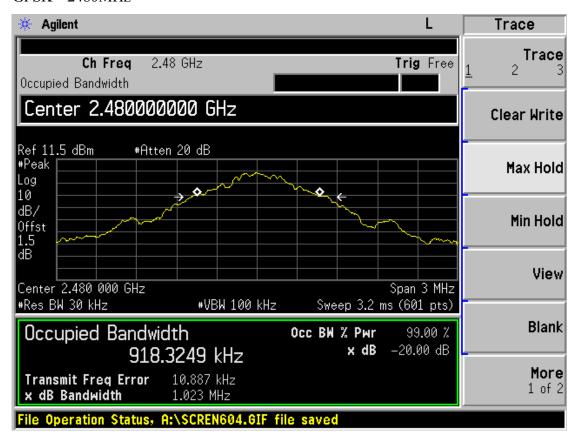


GFSK 2441MHz





GFSK 2480MHz

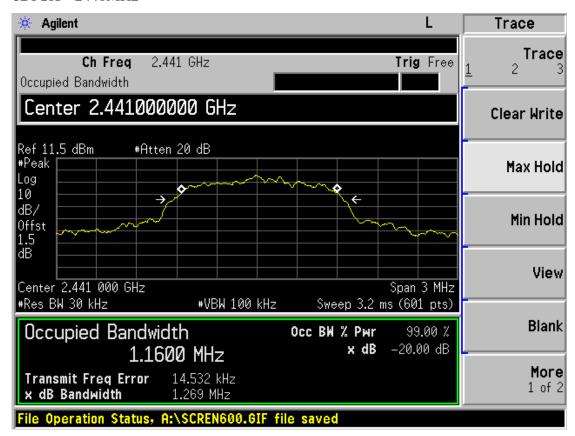


8DPSK 2402MHz

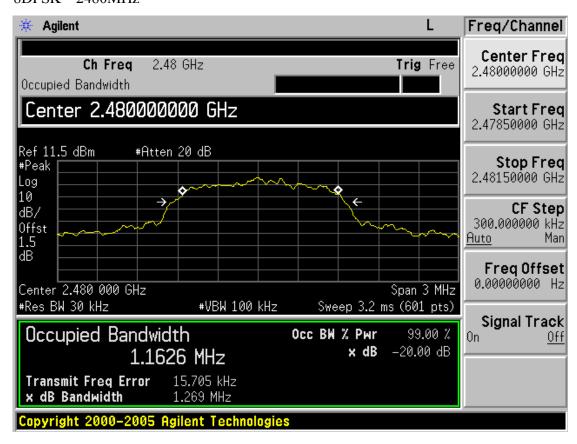




8DPSK 2441MHz



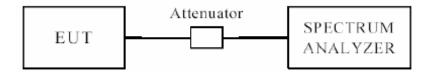
8DPSK 2480MHz





8. OUTPUT POWER TEST

8.1. Block Diagram of Test Setup



8.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.

8.3. Test Procedure

Connected the EUT's antenna port to measure device by 20dB attenuator. and use power meter to test peak output power directly.

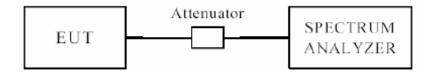
8.4. Test Results

Mode	Channel	Max. Conducted Output Power	Limit	Result
		(dBm)	(dBm)	
	2402	1.82	30	Pass
GFSK	2441	2.08	30	Pass
	2480	2.92	30	Pass
	2402	1.88	30	Pass
8DPSK	2441	1.46	30	Pass
	2480	2.37	30	Pass



9. FREQUENCY SEPARATION

9.1. Block Diagram of Test Setup



9.2. Limit

According to § 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

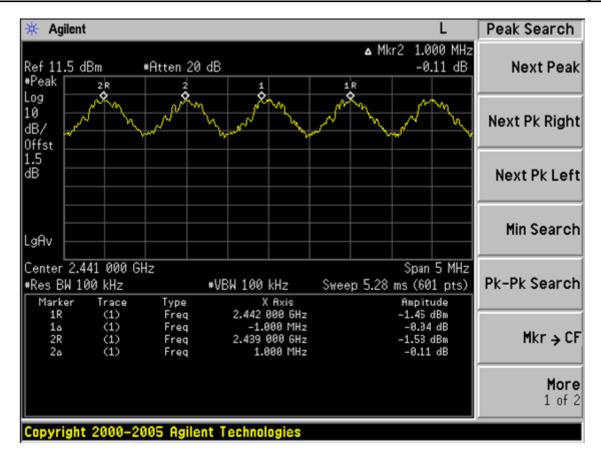
9.3. Test Procedure

- 9.3.1. Place the EUT on the table and set it in transmitting mode.
- 9.3.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 9.3.3. Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 9.3.4. Set the Spectrum Analyzer as RBW = 100kHz, VBW = 100kHz, Span = 5MHz, Sweep = auto.
- 9.3.5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

9.4. Test Results

Mode	Channel separation	Limit(KHz)	Result
GFSK	1MHz	682	Pass
8DPSK	1MHz	846	Pass

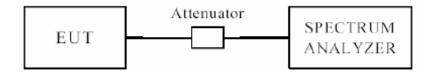






10. NUMBER OF HOPPING FREQUENCY

10.1. Block Diagram of Test Setup



10.2. Limit

According to § 15.247(a)(1)(ii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

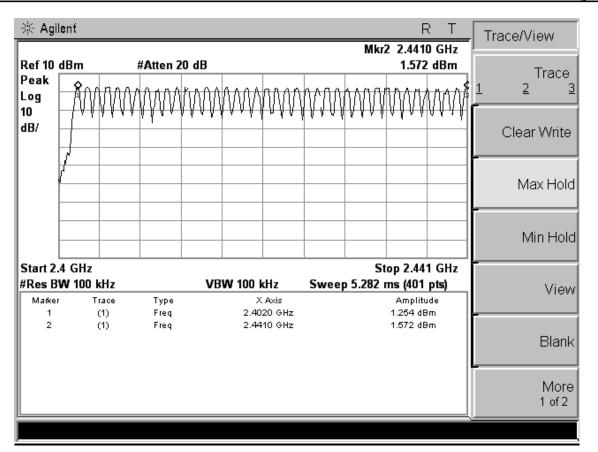
10.3. Test Procedure

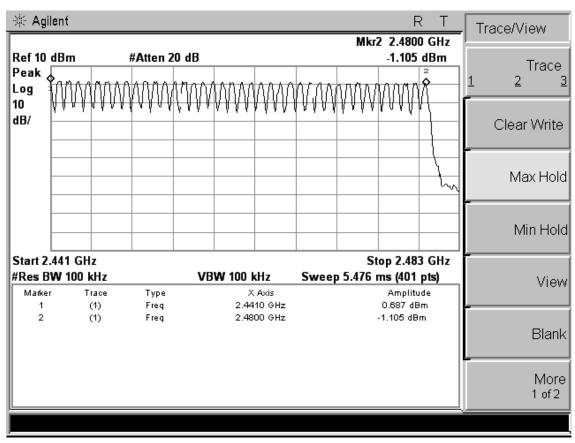
- 10.3.1. Place the EUT on the table and set it in transmitting mode.
- 10.3.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 10.3.3. Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 10.3.4. Set the Spectrum Analyzer as RBW, VBW=100KHz.
- 10.3.5. Max hold, view and count how many channel in the band.

10.4. Test Results

The Measurement Result With The Worst Case of 3Mbps For 8DPSK Modulation				
Total No. of Hopping Channel	Measurement Result (No. of Ch)	Limit (MHz)	Result	
	79	≥15	Pass	



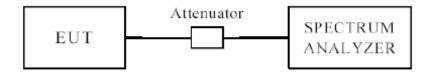






11. TIME OF OCCUPANCY (DWELL TIME)

11.1. Block Diagram of Test Setup



11.2. Limit

According to § 15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

11.3. Test Procedure

- 11.3.1.Place the EUT on the table and set it in transmitting mode.
- 11.3.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 11.3.3. Set center frequency of Spectrum Analyzer = operating frequency.
- 11.3.4. Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 11.3.5. Repeat above procedures until all frequency measured were complete.

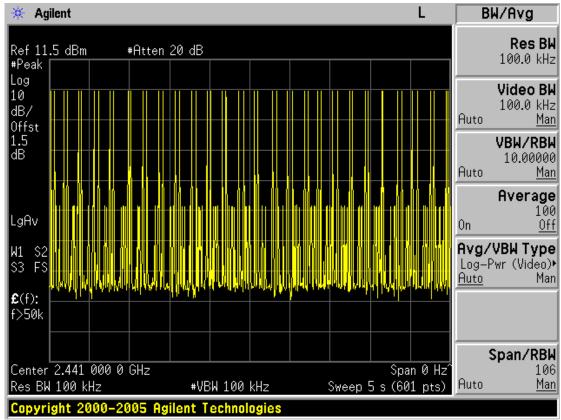
11.4. Test Results

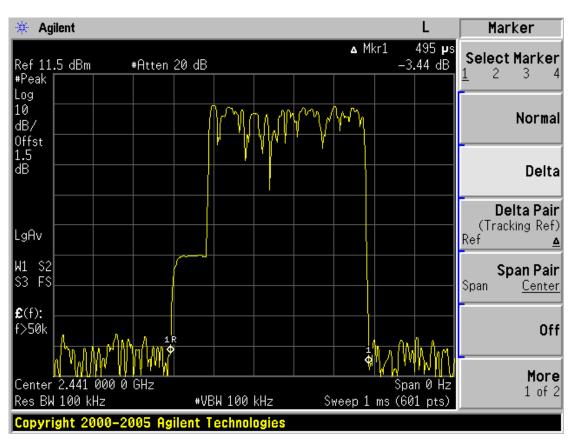
Mode	СН	Dwell time	Limit	Results
GFSK	DH1	26hops/5s*0.4*79chanels*0.495ms =81.34ms	<400ms	Pass
	DH3	18hops/5s*0.4*79chanels*1.758ms =200ms	<400ms	Pass
	DH5	18hops/5s*0.4*79chanels*3.017ms=343.21ms	<400ms	Pass
8-DPSK	DH1	26hops/5s*0.4*79chanels*0.508ms =83.47ms	<400ms	Pass
	DH3	18hops/5s*0.4*79chanels*0.495ms =199.08ms	<400ms	Pass
	DH5	14hops/5s*0.4*79chanels*3.027ms =267.83ms	<400ms	Pass

Note: All the lower levels were signal from receiver's, and should not considered in here.



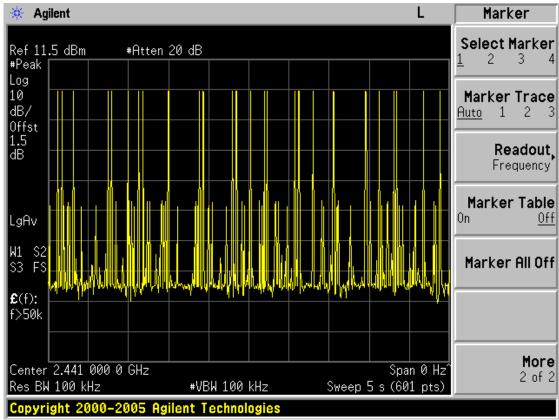
GFSK DH1

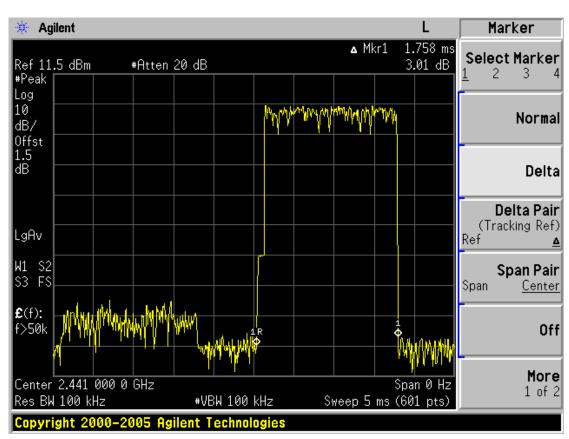






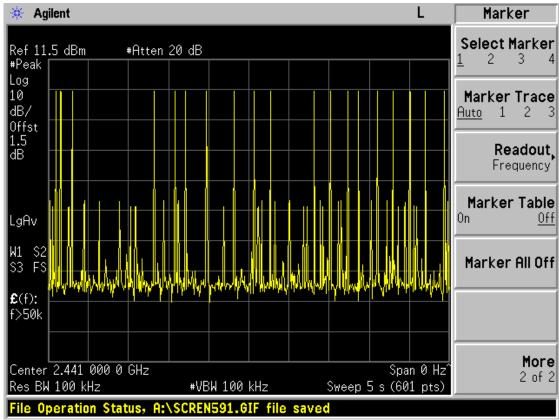
GFSK DH3

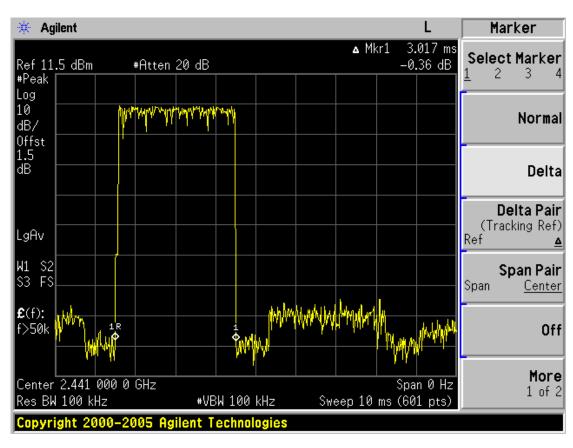






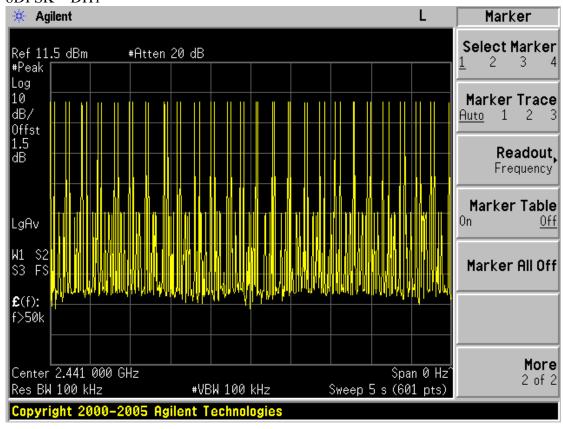
GFSK DH5

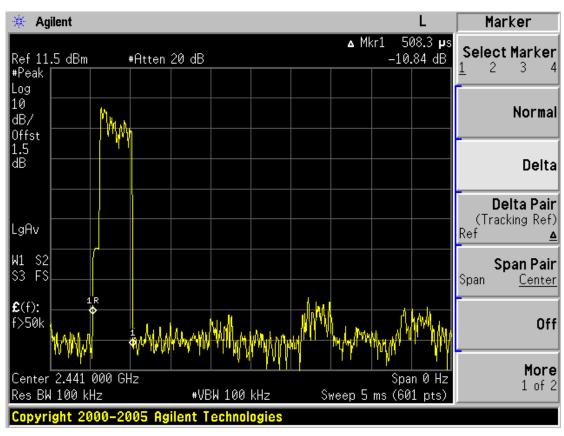






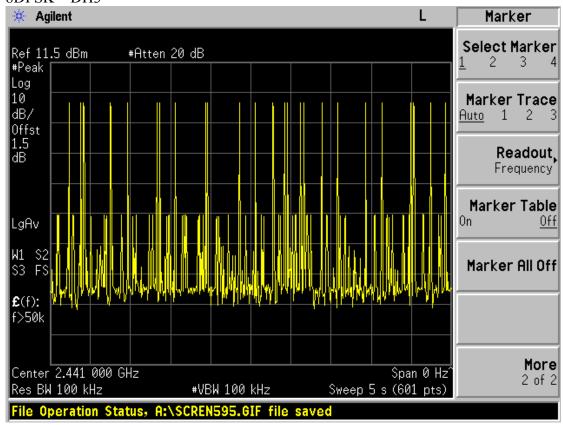
8DPSK DH1

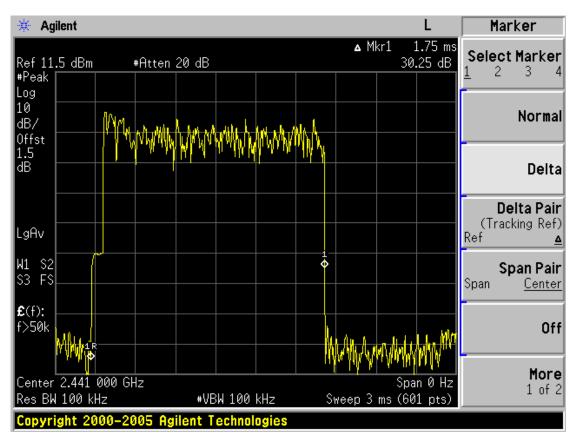






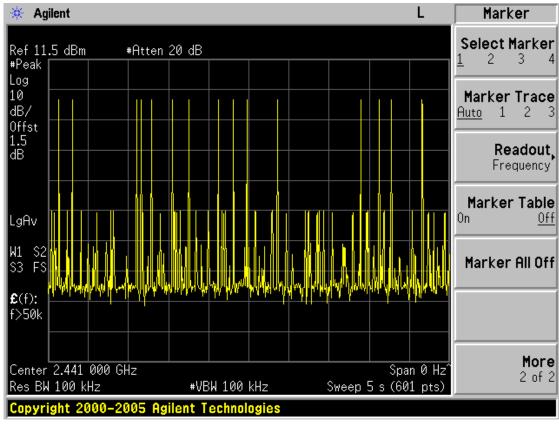
8DPSK DH3

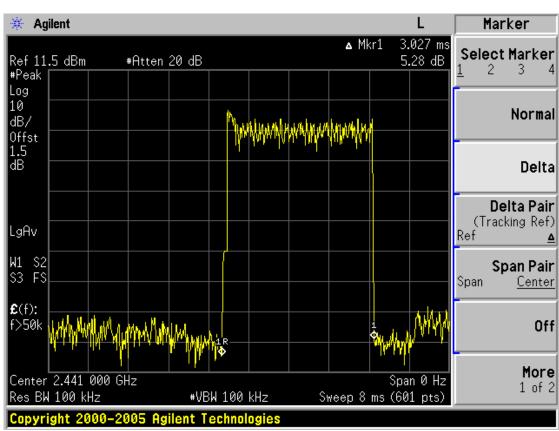






8DPSK DH5







12. ANTENNA REQUIREMENT

12.1. Standard Applicable

According to § 15.203, 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.

12.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 2.0dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

12.3. Results

Compliance.



13. DEVIATION TO TEST SPECIFICATIONS

[NONE]

Tel: +86-755-29113252 Fax: +86-755-29113135



14. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

A7-3D	X6-7AGD41	X6-7MGD41	M7
X6-8AGD41	X6-8MGD41	6-10AD21	7A42
9A42			

Note: All the models are identical except the model name or color.

Belong to the tested device:

Product description : Tablet PC

Model name : A7-3D

Remark: So no additional models were tested.

-----THE END OF REPORT-----