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Report No.: SZEMO10050263601
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FCC REPORT

Application No: SZEMO100502636RF
Applicant: Maverick Lifestyle Corporation
Product Name: Nica Bluetooth Headset
Operation Frequency: 2.402GHz to 2.480GHz
FCC ID: U2G0171005
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt: 12 May 2010
Date of Test: 14 May to 07 June 2010
Date of Issue: 08 June 2010

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Passed
Conducted Peak Output Power	15.247 (b)(1)	Passed
20dB Occupied Bandwidth	15.247 (a)(1)	Passed
Carrier Frequencies Separation	15.247 (a)(1)	Passed
Hopping Channel Number	15.247 (b)	Passed
Dwell Time	15.247 (a)(1)	Passed
Pseudo random Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Passed
Radiated Emission	15.205/15.209	Passed
Band Edge	15.247(d)	Passed
RF Antenna Conducted spurious emissions	15.247(d)	Passed

Remark: Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

4 General Information

4.1 Client Information

Applicant:	Maverick Lifestyle Corporation
Manufacturer/ Factory:	Shenzhen Ether Electronics Co., Ltd.
Address of Applicant:	950 Rengstorff Avenue, Suite F, Mountain View, California 94043, USA
Address of Manufacturer / Factory:	4F, 5Buliding, Dongfangming Industrial Park, No.83, Dabao Road, Baoan District, Shenzhen City, China

4.2 General Description of E.U.T.

Product Name:	Nica Bluetooth Headset
Trade Name:	Nica
Item No.:	NSBKB-001
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	2.5dBi (declared by manufacturer)
Power supply:	Input: 100-240V-50/60Hz 0.2A Output:5.0V 1000mA

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

4.3 E.U.T Operation mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Normal operation mode:	Transmit information between the EUT with other Bluetooth device, the EUT is charged by adapter and PC.
Transmitting mode:	Keep the EUT in transmitting mode with modulation.

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
518057
Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594
No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2009	16-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	05-11-2009	05-11-2010
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	05-11-2009	05-11-2010
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	10-11-2009	10-11-2010
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	10-11-2009	10-11-2010
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	02-06-2010	01-06-2011
9	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	13-07-2009	13-07-2010
10	Band filter	Amindeon	82346	SEL0094	23-06-2009	23-06-2010

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	02-06-2010	01-06-2011
3	LISN	Schwarzbeck	NNBM 8125	SEL0119	28-07-2009	28-07-2010
3	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	02-06-2010	01-06-2011
4	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	18-06-2011

RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	22-10-2009	22-10-2010
2	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	18-06-2011

5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 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, 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.
E.U.T Antenna:	

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5dBi.

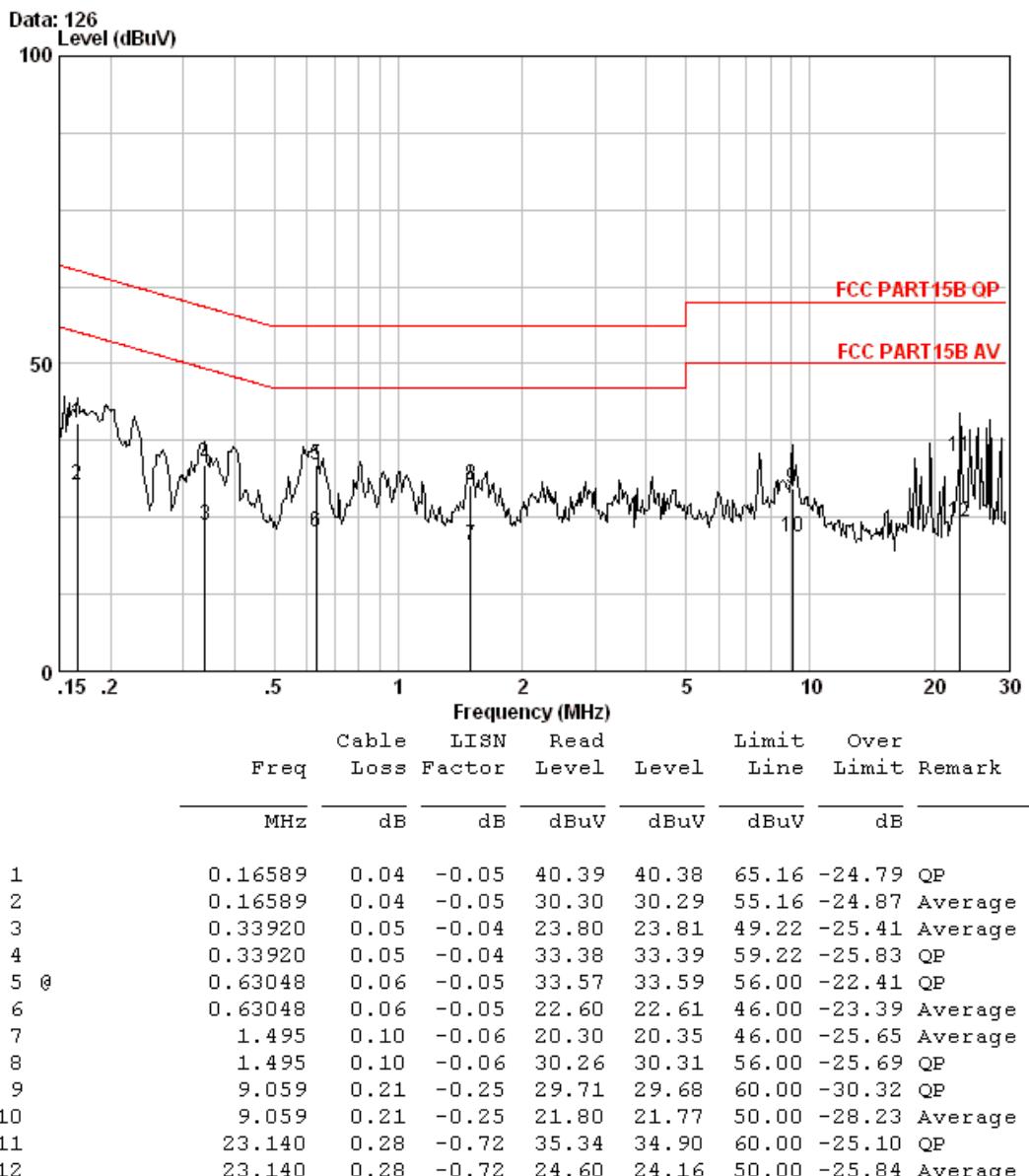
5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																	
Test Method:	ANSI C63.4: 2003																	
Test Frequency Range:	150KHz to 30MHz																	
Class / Severity:	Class B																	
Limit:	<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th></th> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																	
	Quasi-peak	Average																
0.15-0.5	66 to 56*	56 to 46*																
0.5-5	56	46																
5-30	60	50																
	* Decreases with the logarithm of the frequency.																	
Test procedure	<p>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</p>																	
Test setup:	<p>Reference Plane</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																	
Test Instruments:	Refer to section 4.7 for details																	
Test mode:	<p>Normal operation mode</p> <p>Pre-scan was performed on the EUT on charge mode by PC and adapter, and then found charged by PC is the worse case.</p>																	
Test results:	Passed																	

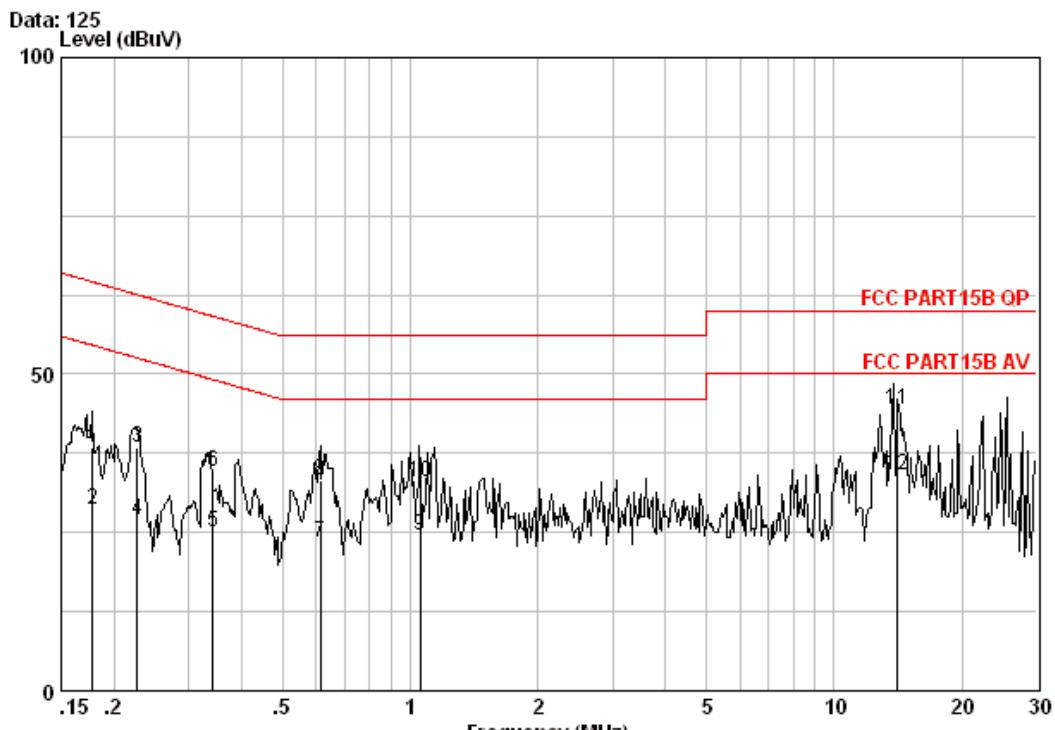
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:**Notes:**

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

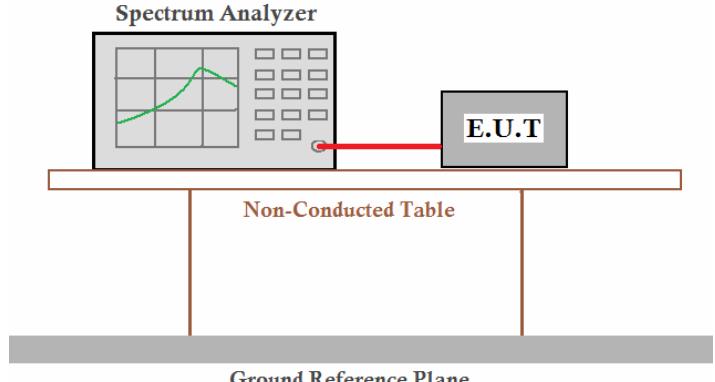
Neutral line:


Freq	Cable	LISN	Read	Limit	Over	Remark	
	Loss	Factor	Level				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.17800	0.04	-0.04	38.50	38.50	64.58	-26.08 QP
2	0.17800	0.04	-0.04	28.70	28.70	54.58	-25.88 Average
3	0.22710	0.04	-0.04	38.50	38.50	62.56	-24.05 QP
4	0.22710	0.04	-0.04	27.10	27.10	52.56	-25.45 Average
5	0.34220	0.05	-0.04	25.10	25.11	49.15	-24.04 Average
6	0.34220	0.05	-0.04	34.60	34.61	59.15	-24.54 QP
7	0.61420	0.06	-0.04	23.30	23.32	46.00	-22.68 Average
8	0.61420	0.06	-0.04	33.30	33.32	56.00	-22.68 QP
9 @	1.057	0.08	-0.05	24.60	24.64	46.00	-21.36 Average
10	1.057	0.08	-0.05	33.00	33.04	56.00	-22.96 QP
11 @	14.010	0.24	-0.43	44.50	44.31	60.00	-15.69 QP
12 @	14.010	0.24	-0.43	34.20	34.01	50.00	-15.99 Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

5.3 Conducted Peak Output Power

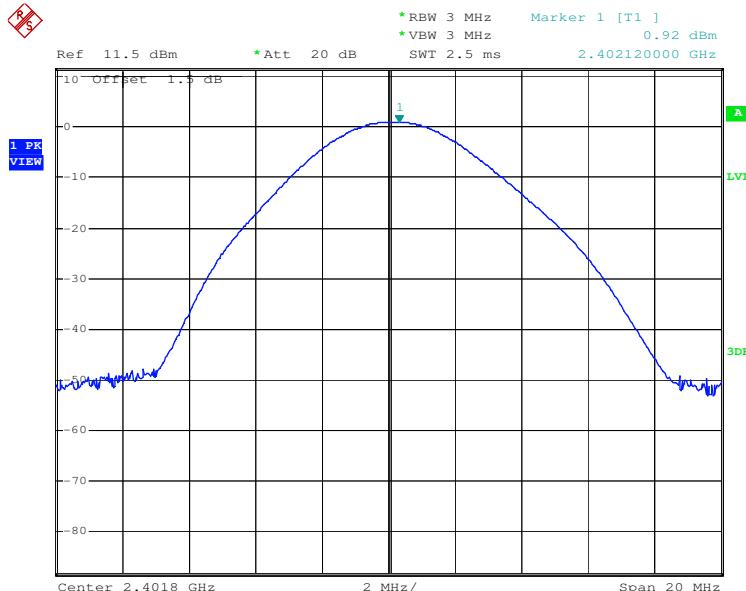
Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	30dBm
Test setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with modulation.
Test results:	Passed

Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.92	30.00	Pass
Middle	-0.83	30.00	Pass
Highest	-1.83	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.55	30.00	Pass
Middle	-2.35	30.00	Pass
Highest	-3.70	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.00	30.00	Pass
Middle	-2.02	30.00	Pass
Highest	-3.24	30.00	Pass

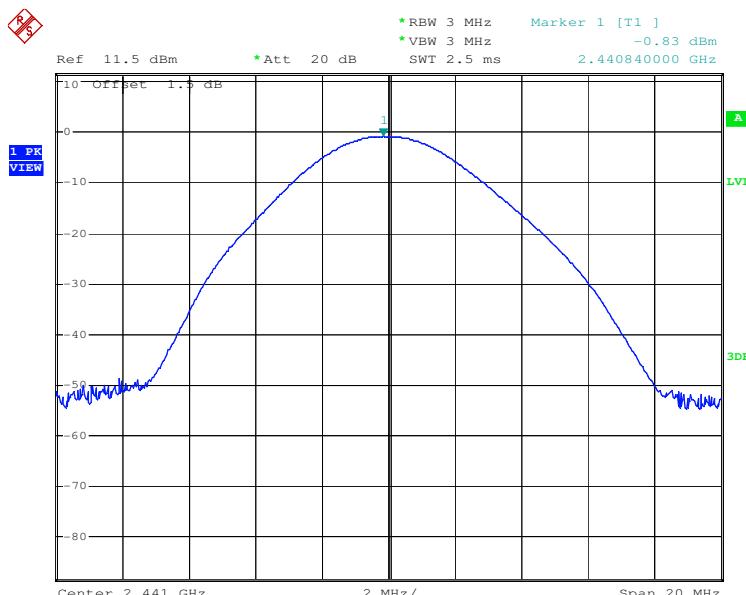
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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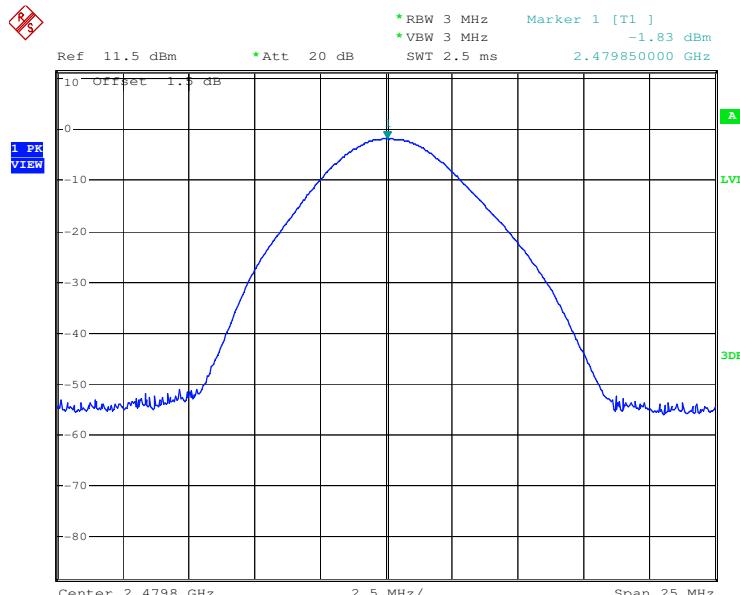
Date: 18.MAY.2010 12:39:26

Test mode:	GFSK	Test channel:	Middle
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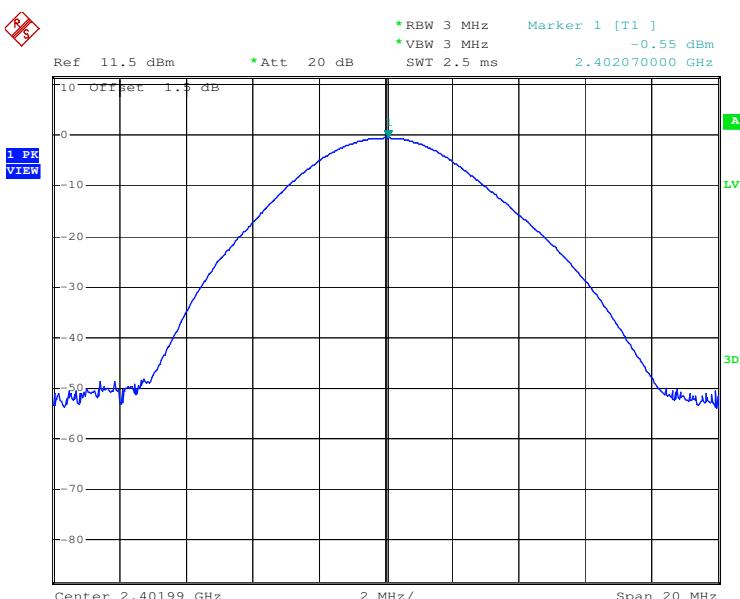
Date: 18.MAY.2010 13:36:15

Test mode:	GFSK	Test channel:	Highest
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Date: 18.MAY.2010 14:14:23

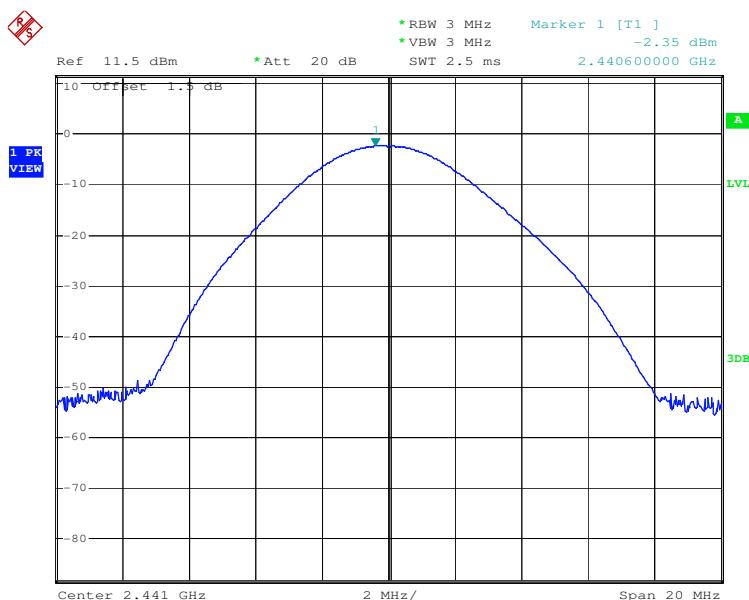
Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 18.MAY.2010 14:41:02

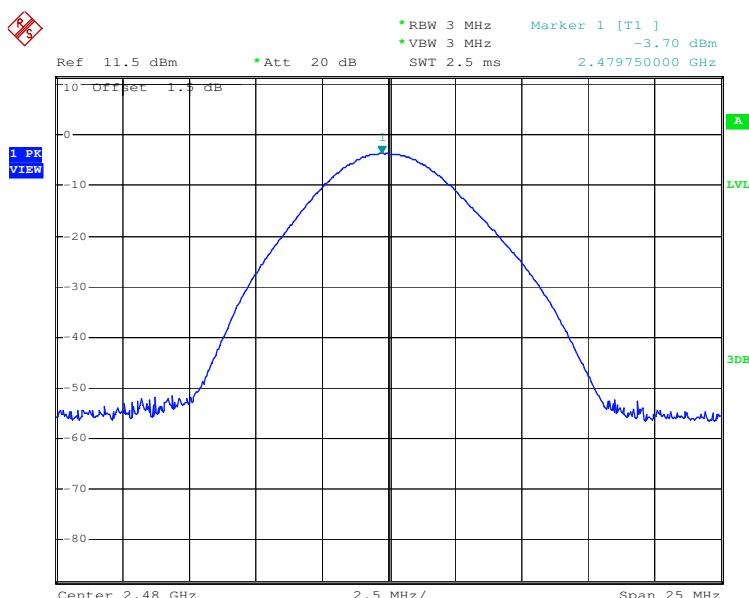
Test mode:	Pi/4QPSK	Test channel:	Middle
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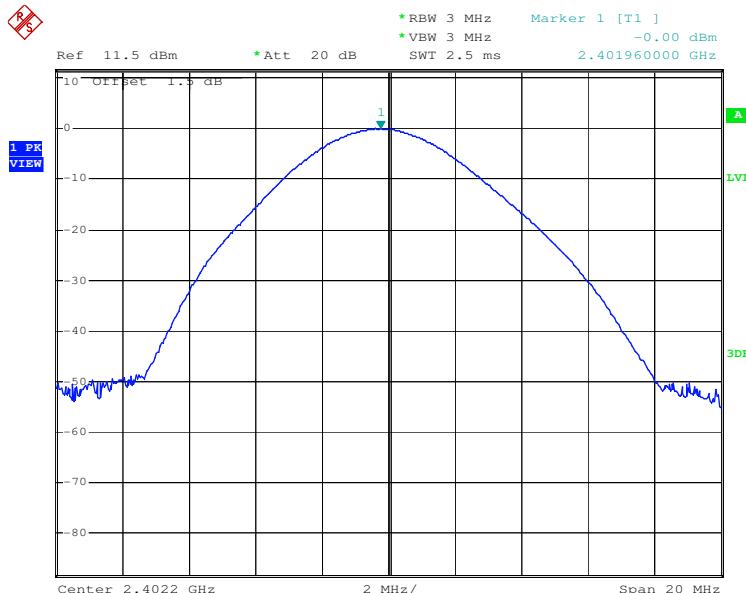
Date: 18.MAY.2010 15:03:26

Test mode:	Pi/4QPSK	Test channel:	Highest
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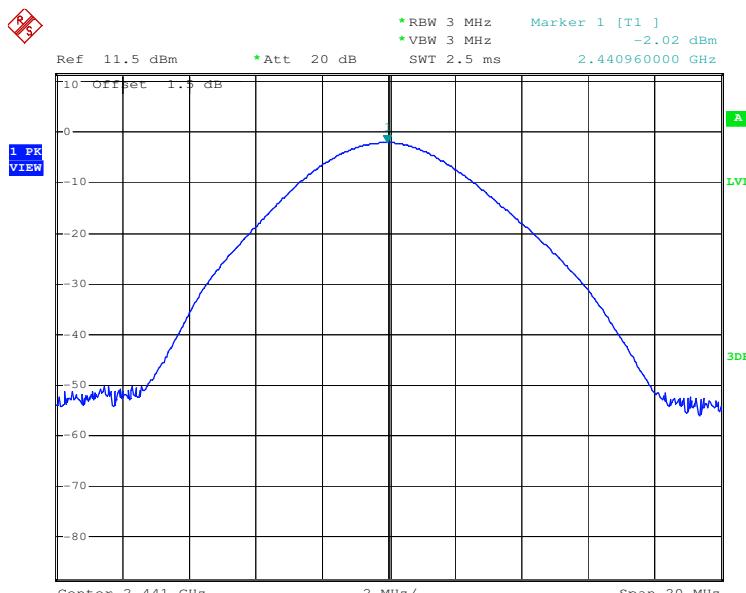
Date: 18.MAY.2010 15:22:37

Test mode:	8DPSK	Test channel:	Lowest
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Date: 18.MAY.2010 15:42:38

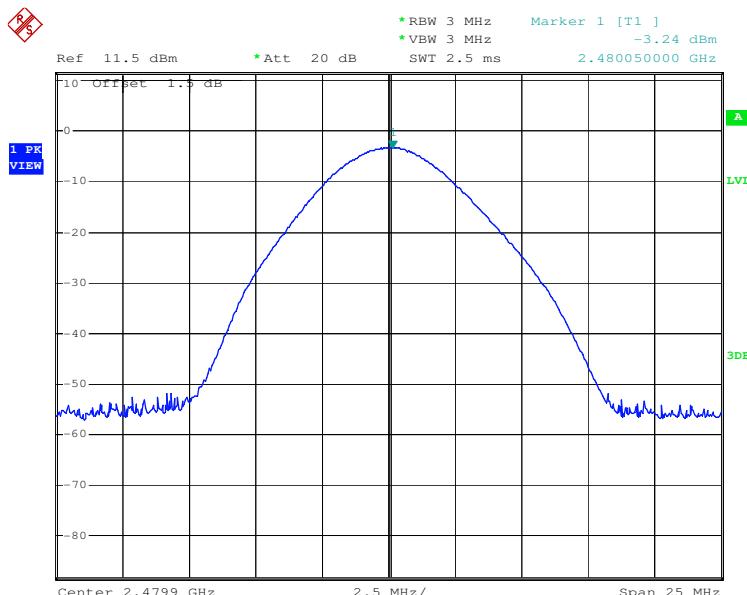
Test mode:	8DPSK	Test channel:	Middle
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Date: 18.MAY.2010 15:52:07

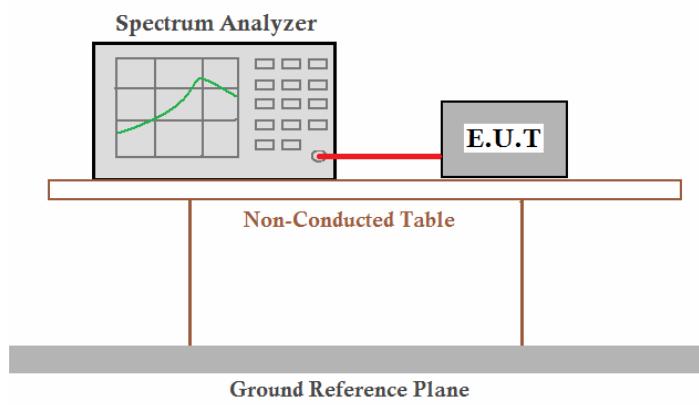
Test mode:	8DPSK	Test channel:	Highest
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Date: 18.MAY.2010 16:10:17

5.4 20dB Occupy Bandwidth

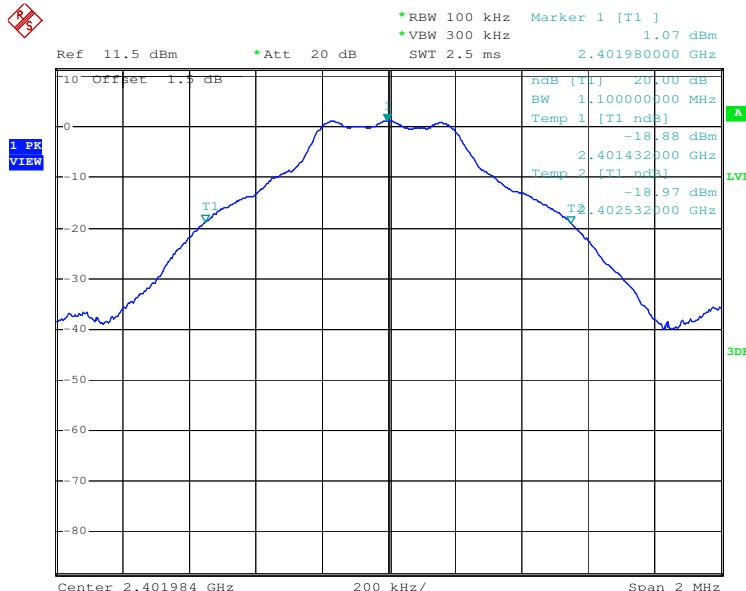
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Test setup:	 <p>Spectrum Analyzer Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with modulation.

Measurement Data

Test channel	20dB Occupy Bandwidth (KHz)		
	GFSK	Pi/4QPSK	8DPSK
Lowest	1100	1376	1344
Middle	1100	1360	1348
Highest	1104	1356	1340

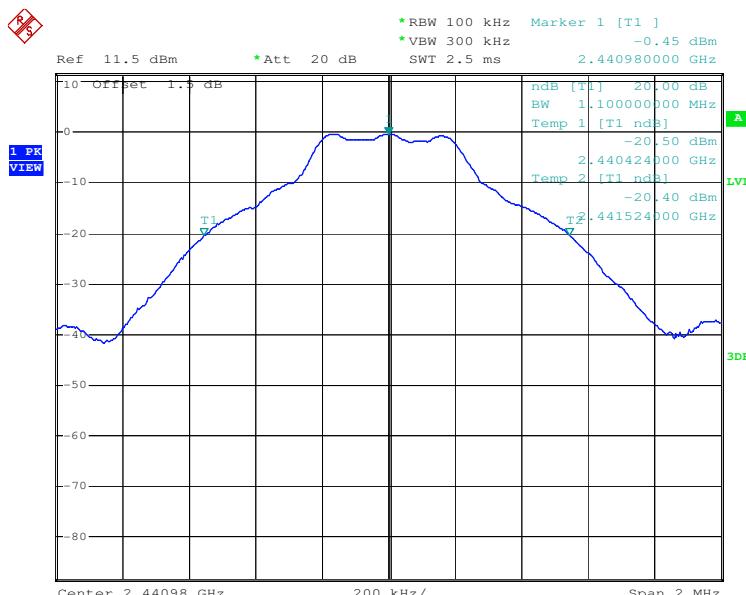
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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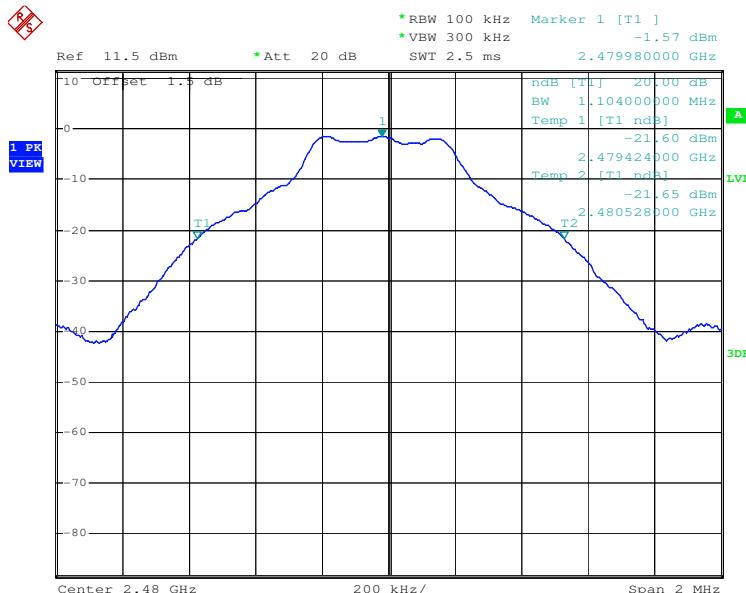
Date: 18.MAY.2010 12:51:10

Test mode:	GFSK	Test channel:	Middle
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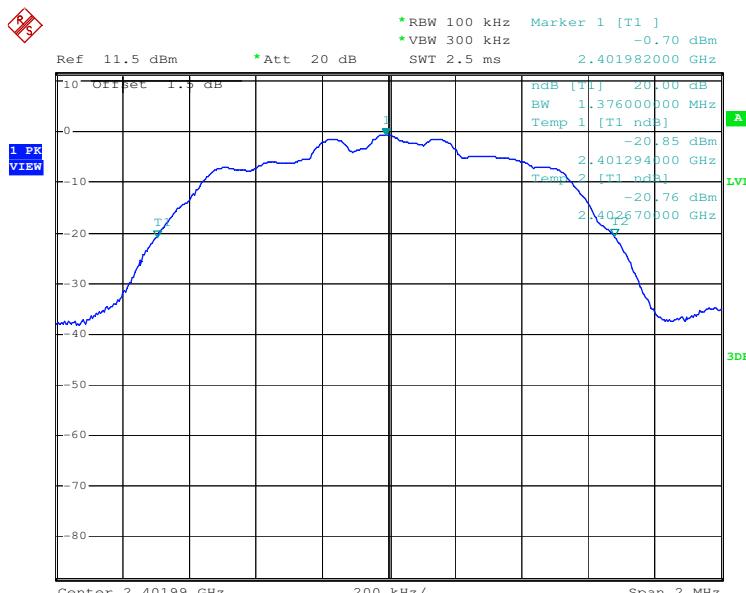
Date: 18.MAY.2010 13:38:45

Test mode:	GFSK	Test channel:	Highest
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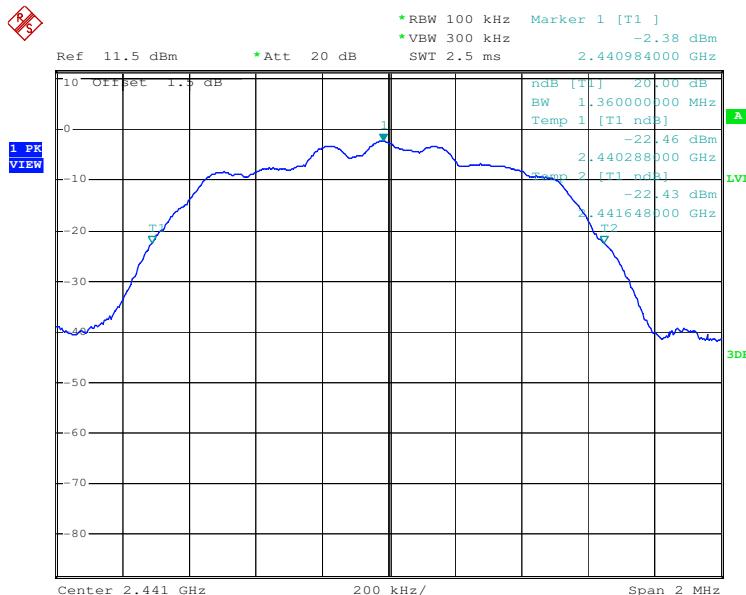
Date: 18.MAY.2010 13:56:01

Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 18.MAY.2010 14:39:09

Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 18.MAY.2010 15:09:49

Test mode:	Pi/4QPSK	Test channel:	Highest
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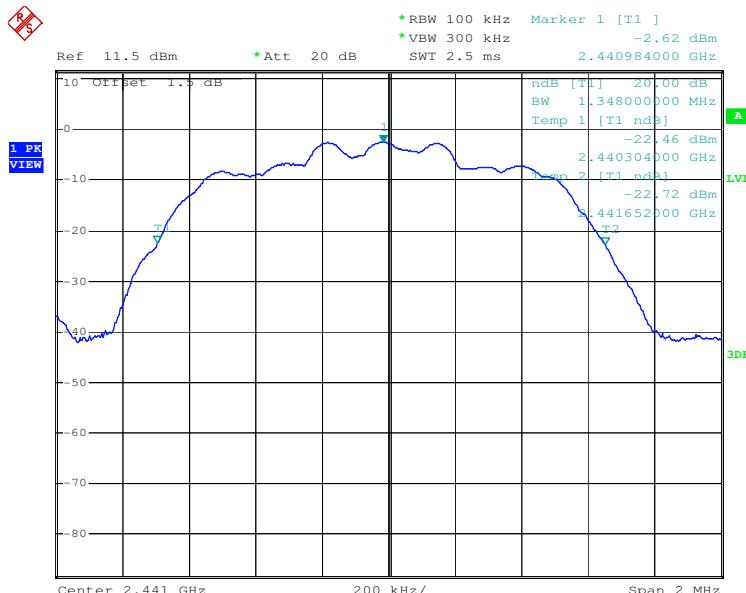
Date: 18.MAY.2010 15:15:55

Test mode:	8DPSK	Test channel:	Lowest
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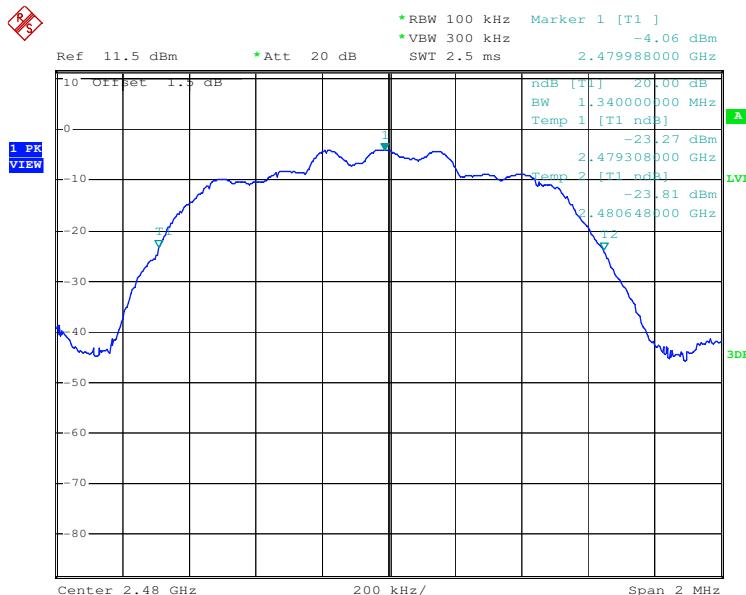
Date: 18.MAY.2010 15:32:54

Test mode:	8DPSK	Test channel:	Middle
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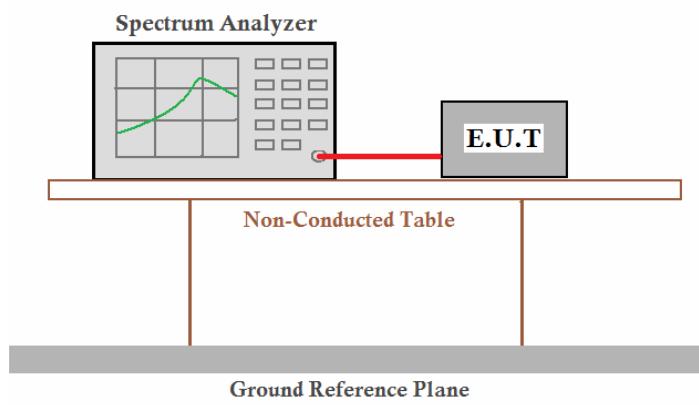
Date: 18.MAY.2010 15:53:55

Test mode:	8DPSK	Test channel:	Highest
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Date: 18.MAY.2010 16:03:25

5.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Test setup:	 <p>Spectrum Analyzer Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer</i></p>
Test Instruments:	Refer to section 4.7 for details
Limit:	$\geq 0.025\text{MHz}$ or 2/3 of the 20dB bandwidth (whichever is greater)
Test state:	Hopping transmitting with modulation.
Test results:	Passed

Measurement Data

GFSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1005	917.3	Pass
Middle	1010	917.3	Pass
Highest	1005	917.3	Pass

Pi/4QPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1010	917.3	Pass
Middle	1000	917.3	Pass
Highest	1005	917.3	Pass

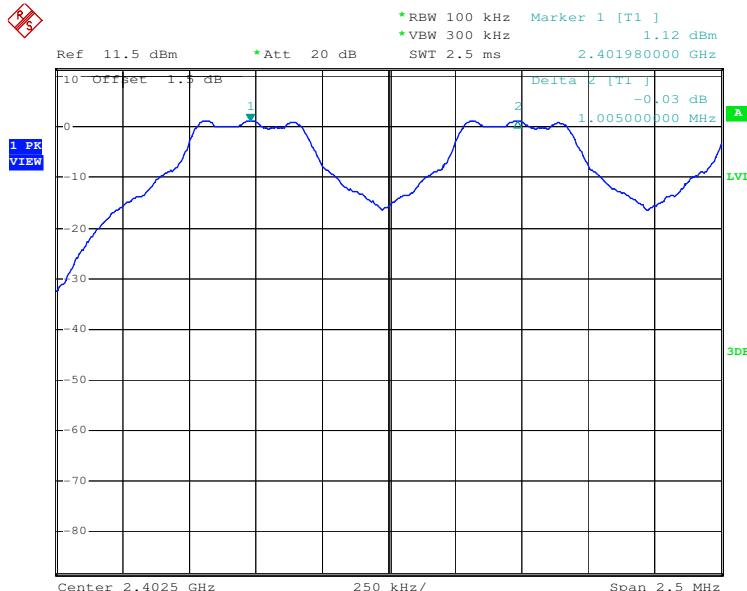
8DPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1005	917.3	Pass
Middle	1005	917.3	Pass
Highest	1005	917.3	Pass

Note: According to section 5.3

Mode	20dB bandwidth (KHz) (worse case)	Limit (KHz) (Carrier Frequencies Separation)
GFSK	1104	736.0
Pi/4QPSK	1376	917.3
8DPSK	1348	898.6

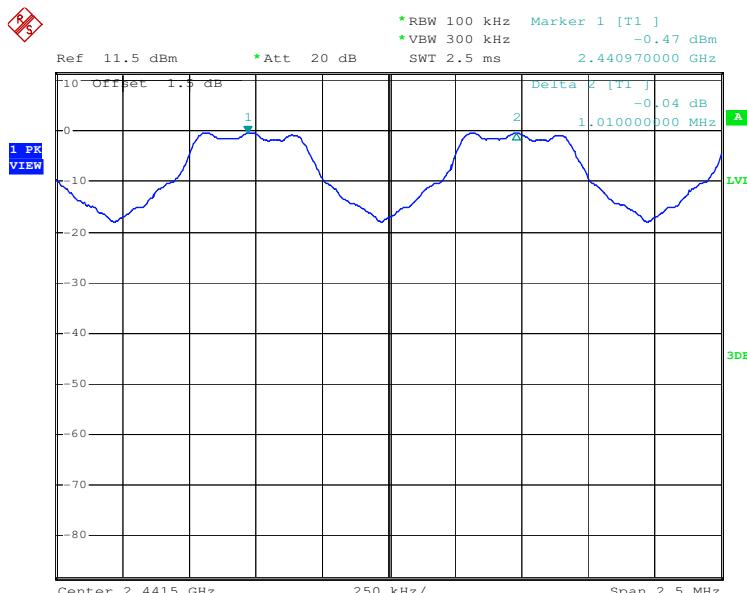
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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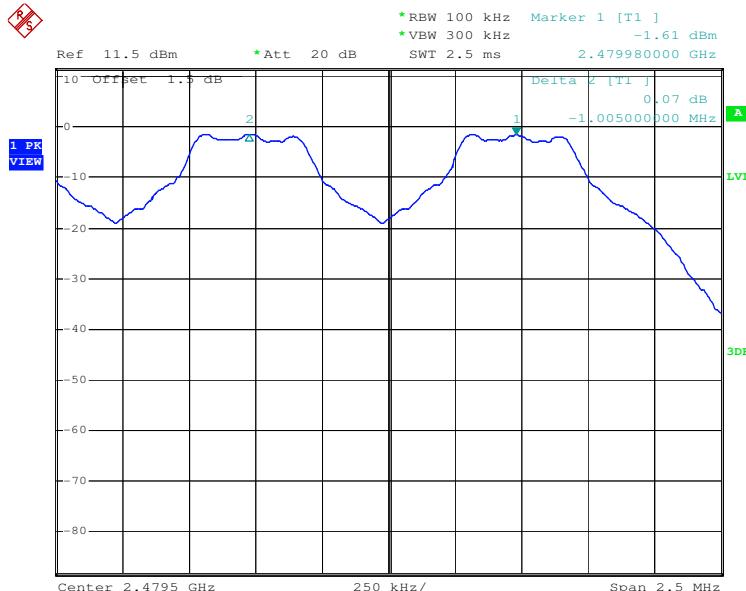
Date: 18.MAY.2010 13:29:14

Test mode:	GFSK	Test channel:	Middle
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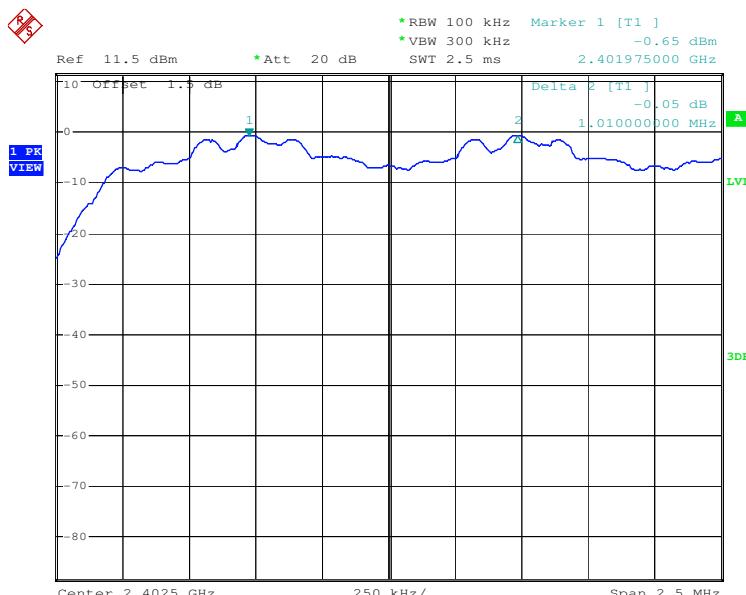
Date: 18.MAY.2010 13:45:40

Test mode:	GFSK	Test channel:	Highest
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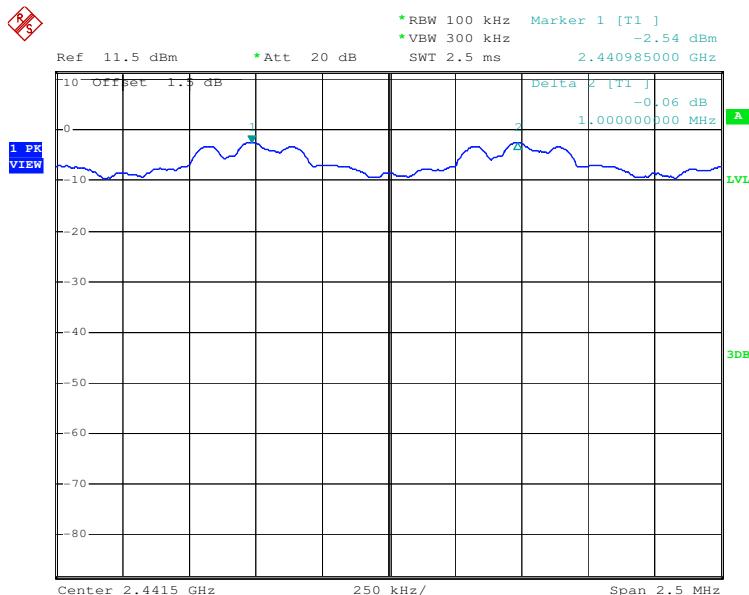
Date: 18.MAY.2010 14:00:15

Test mode:	PI/4QPSK	Test channel:	Lowest
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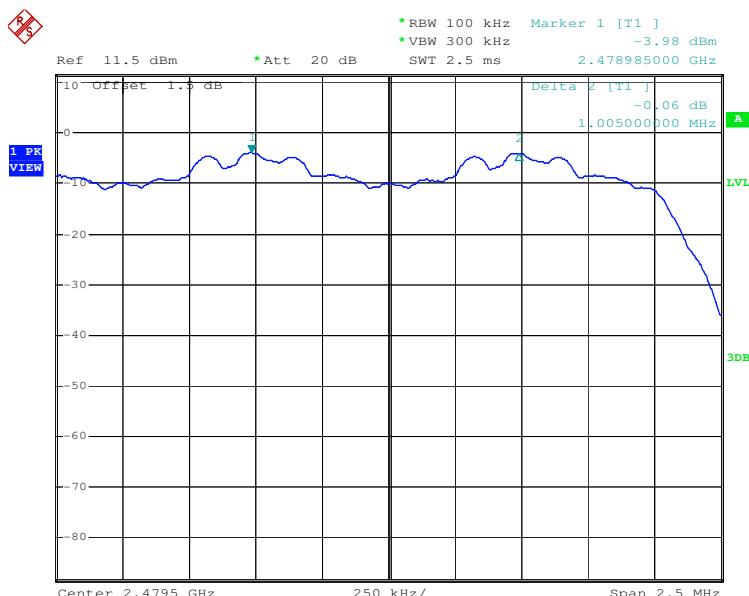
Date: 18.MAY.2010 14:48:16

Test mode:	PI/4QPSK	Test channel:	Middle
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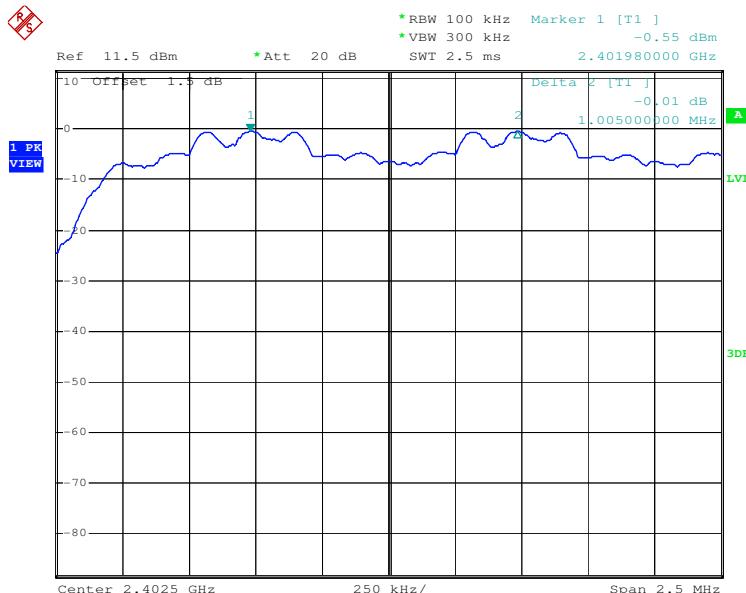
Date: 18.MAY.2010 15:14:00

Test mode:	PI/4QPSK	Test channel:	Highest
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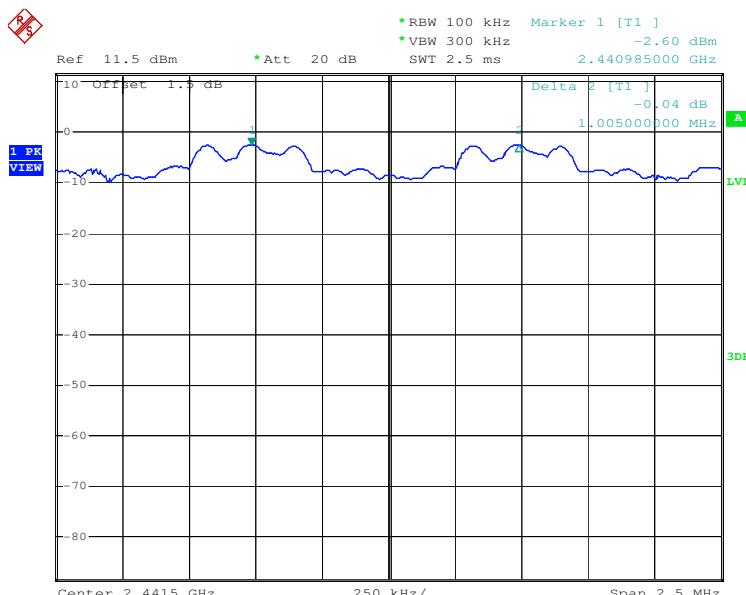
Date: 18.MAY.2010 15:25:03

Test mode:	8DPSK	Test channel:	Lowest
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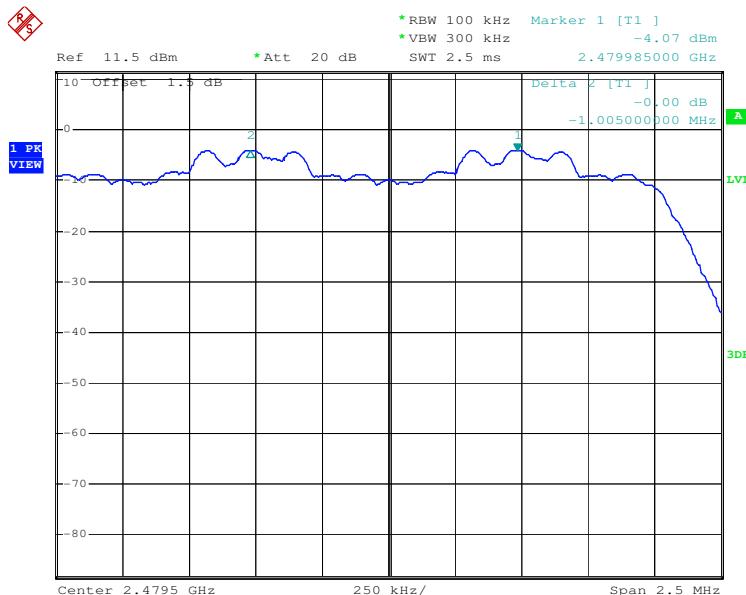
Date: 18.MAY.2010 15:35:52

Test mode:	8DPSK	Test channel:	Middle
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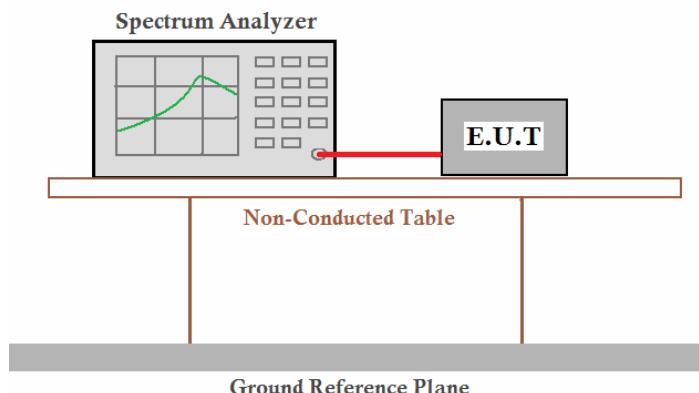
Date: 18.MAY.2010 15:56:33

Test mode:	8DPSK	Test channel:	Highest
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Date: 18.MAY.2010 16:06:05

5.6 Hopping Channel Number

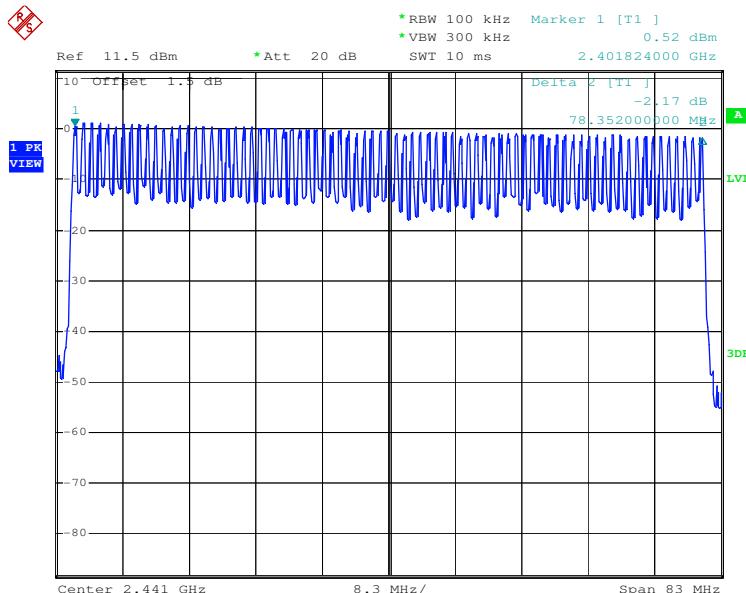
Test Requirement:	FCC Part15 C Section 15.247 (b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	At least 75channels
Test setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p>
	<i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer</i>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with modulation.
Test results:	Passed

Measurement Data

Test mode	Hopping channel numbers	Limit	Results
GFSK	79	75	Pass
Pi/4QPSK	79	75	Pass
8DPSK	79	75	Pass

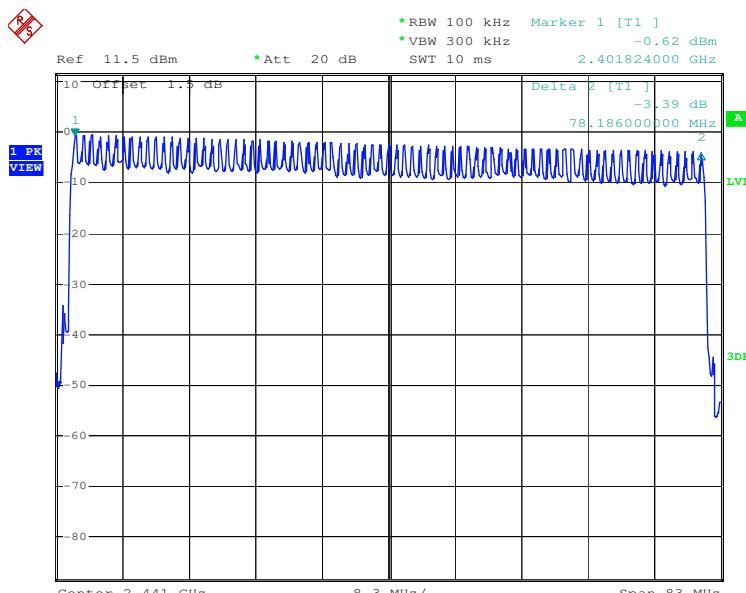
Test plot as follows

Test mode:	GFSK
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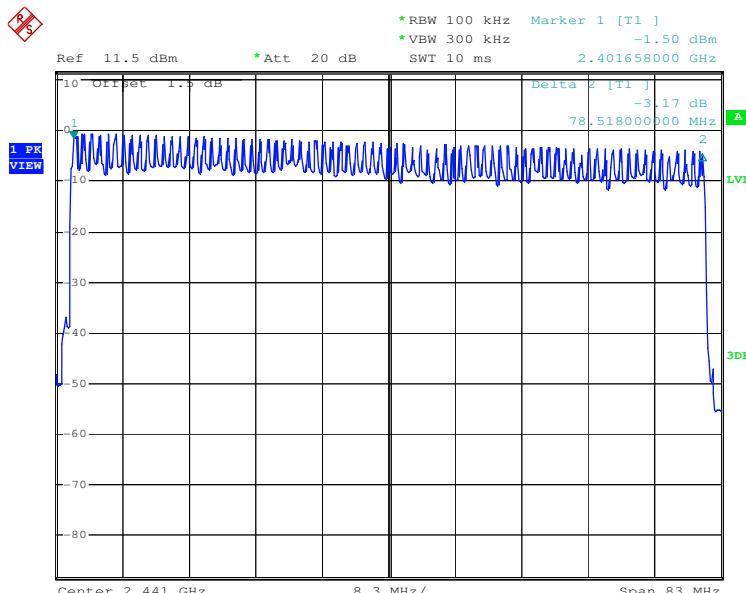
Date: 18.MAY.2010 14:21:42

Test mode:	Pi/4QPSK
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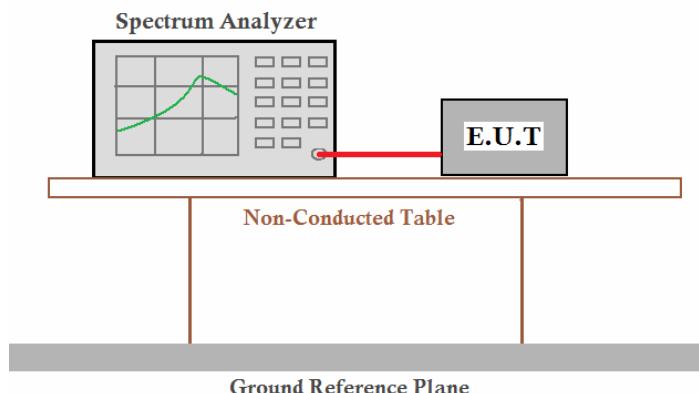
Date: 18.MAY.2010 14:29:48

Test mode:	8DPSK
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Date: 18.MAY.2010 16:14:22

5.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	<=0.4 Second
Test setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with modulation.
Test results:	Passed

Measurement Data

Mode	Packet	Dwell time (second)	Limit (second)
GFSK	DH1	0.1696	0.4
	DH3	0.2880	0.4
	DH5	0.3199	0.4
Pi/4QPSK	2-DH1	0.1696	0.4
	2-DH3	0.2880	0.4
	2-DH5	0.3199	0.4
8DPSK	3-DH1	0.1696	0.4
	3-DH3	0.2880	0.4
	3-DH5	0.3199	0.4

Test Result:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

The lowest channel (2402MHz), middle channel (2441MHz), highest channel (2480MHz) as blow

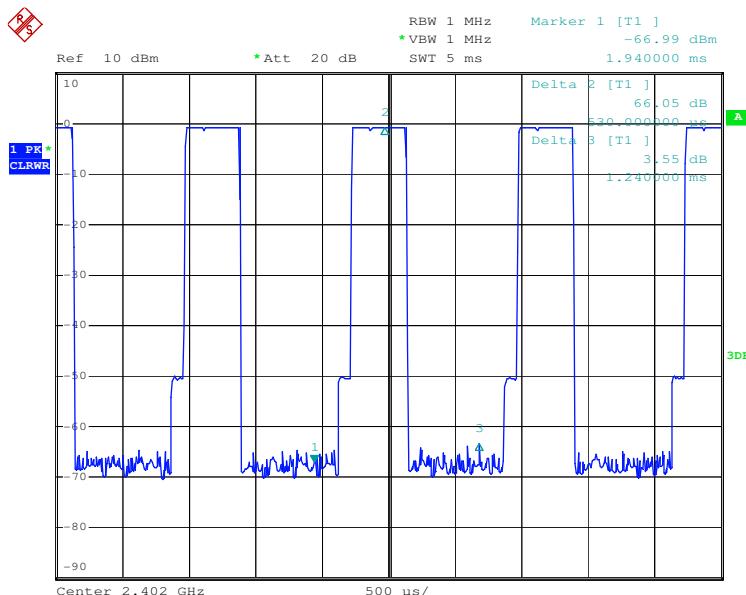
DH1 time slot=0.53(ms)*(1600/ (2*79))*31.6=169.6 ms

DH3 time slot=1.80(ms)*(1600/ (4*79))*31.6=288.0ms

DH5 time slot=3.00(ms)*(1600/ (6*79))*31.6=319.9ms

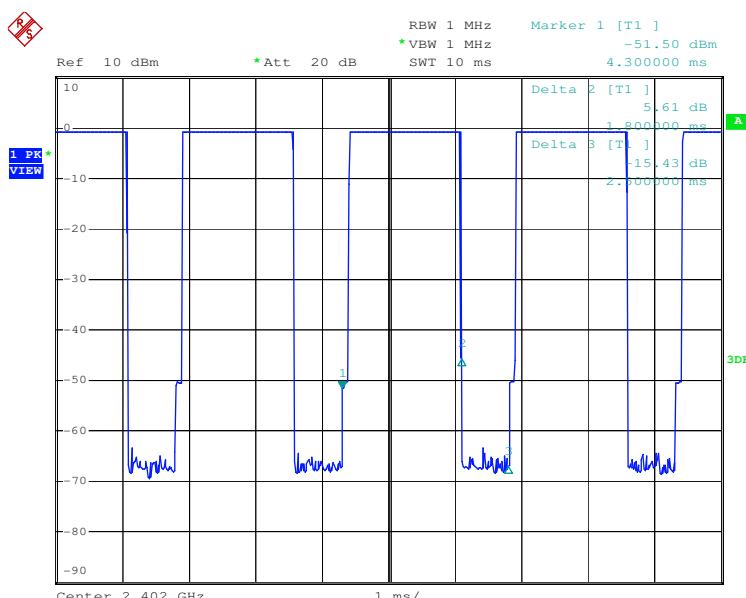
Test plot as follows

Test mode:	GFSK, Pi/4QPSK, 8DPSK	Test Packet:	DH1, 2-DH1, 3-DH1
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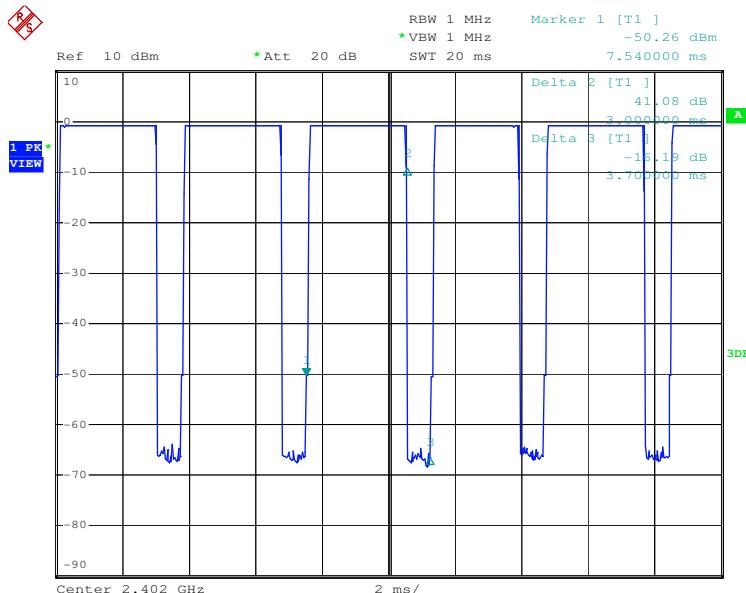
Date: 20.MAY.2010 08:38:36

Test mode:	GFSK, Pi/4QPSK, 8DPSK	Test Packet:	DH3, 2-DH3, 3-DH3
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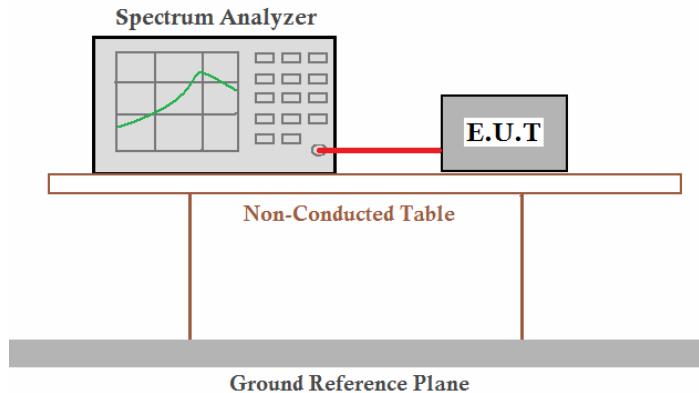
Date: 20.MAY.2010 08:40:47

Test mode:	GFSK, Pi/4QPSK, 8DPSK	Test Packet:	DH5, 2-DH5, 3-DH5
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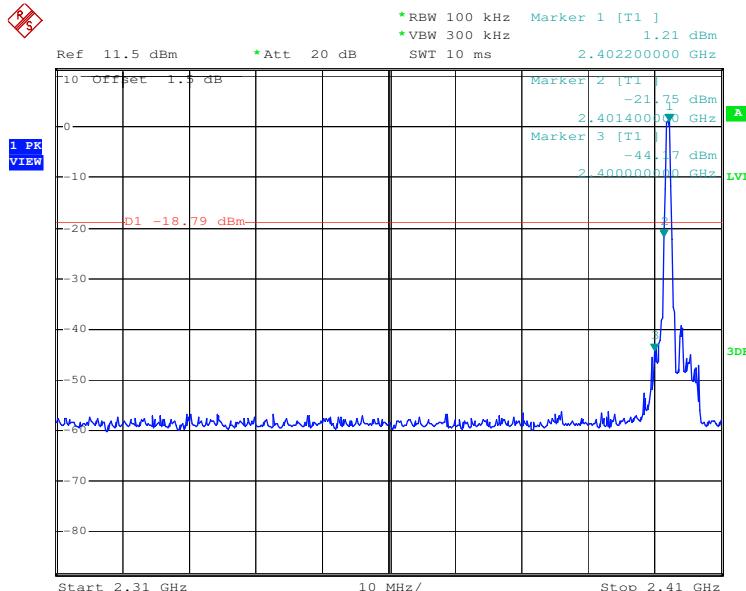
Date: 20.MAY.2010 08:41:41

5.8 Band Edge

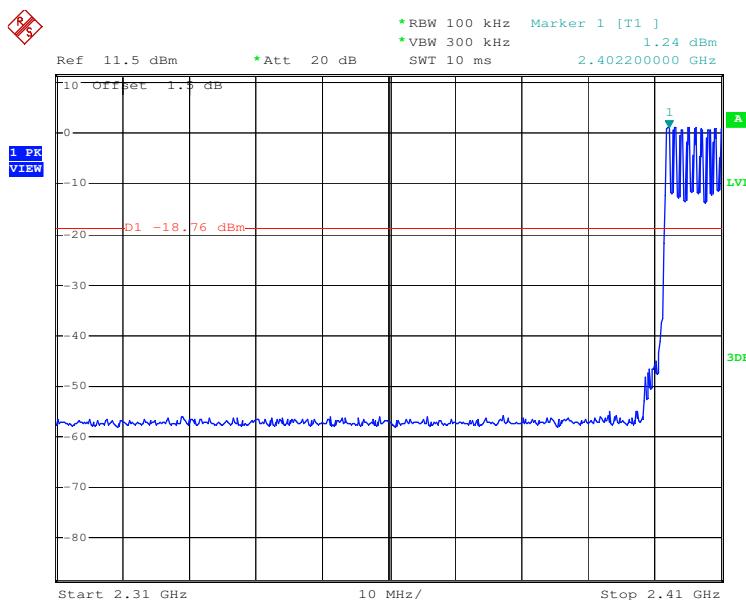
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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.
Test setup:	 <p>Spectrum Analyzer Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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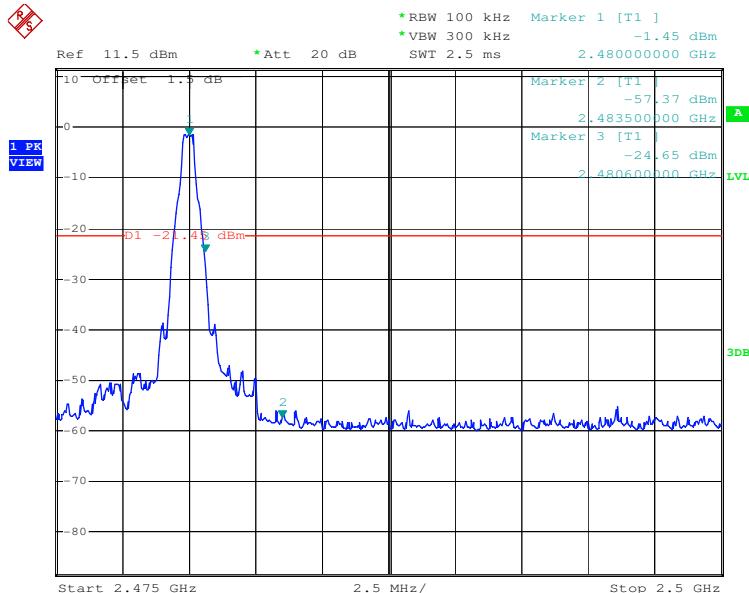


Date: 18.MAY.2010 13:01:24

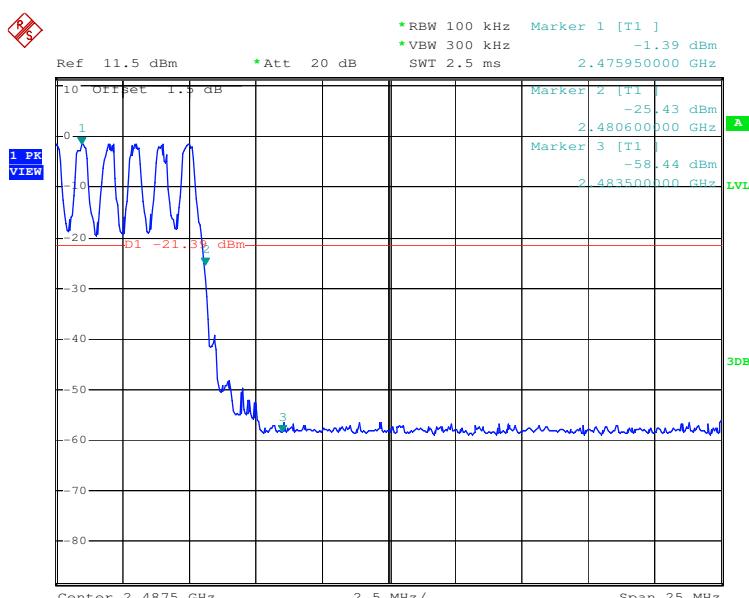


Date: 18.MAY.2010 13:14:07

Test mode:	GFSK	Test channel:	Highest
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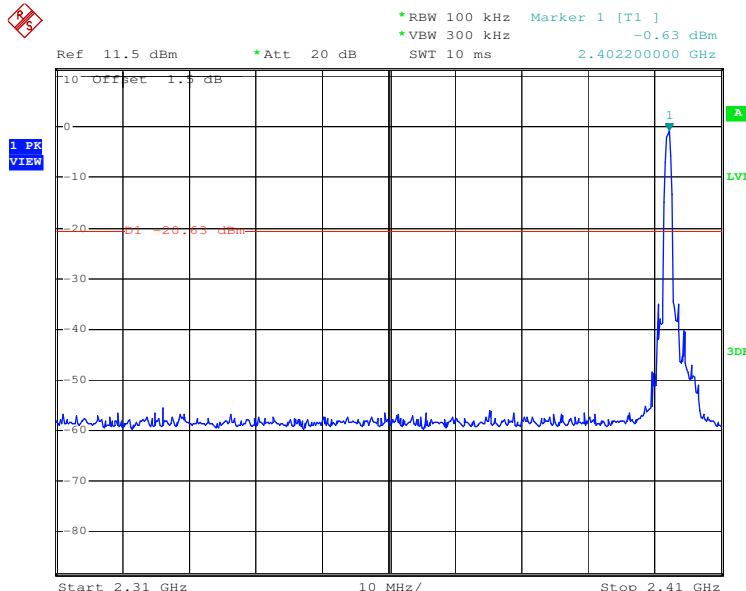


Date: 18.MAY.2010 14:09:35

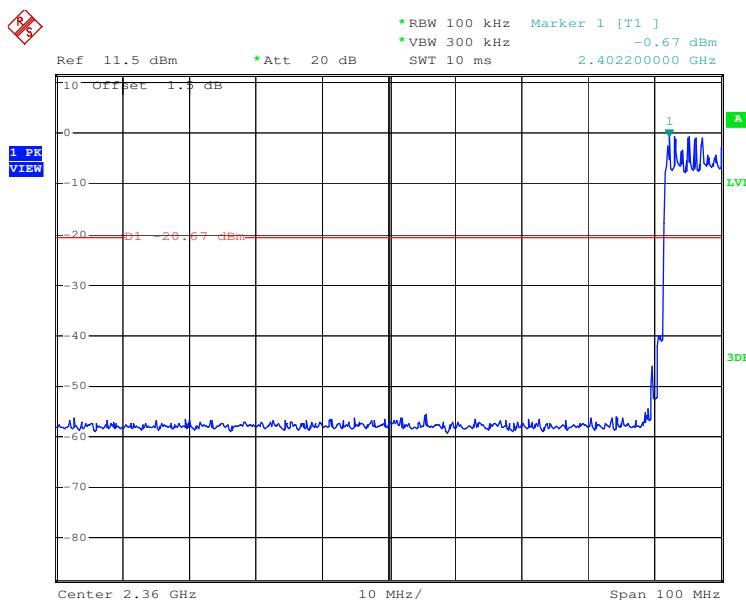


Date: 18.MAY.2010 14:12:55

Test mode:	Pi/4QPSK	Test channel:	Lowest
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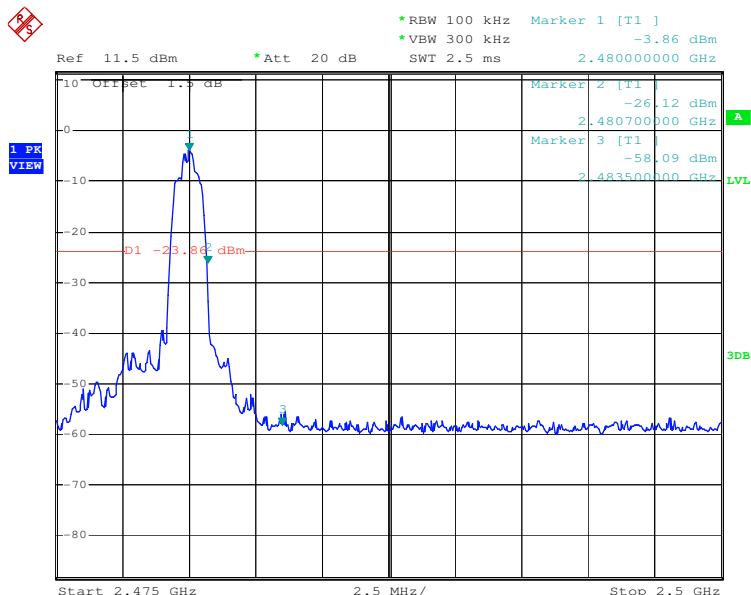


Date: 18.MAY.2010 14:43:41

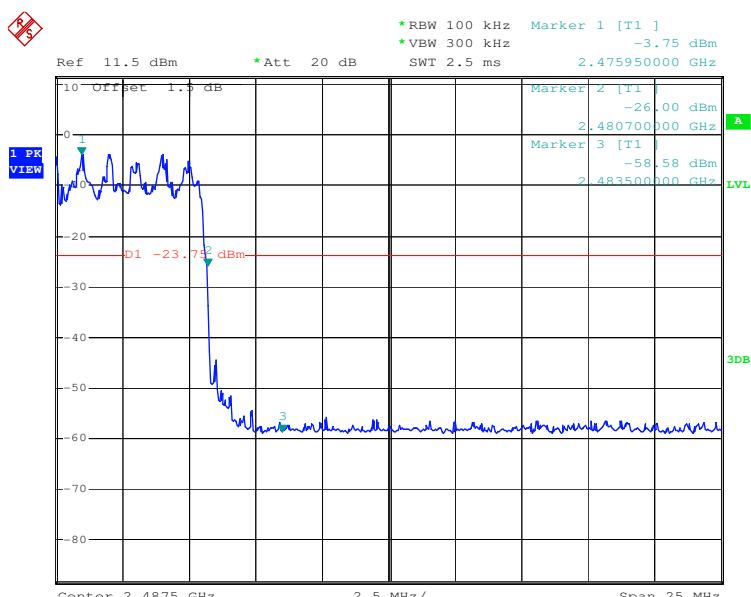


Date: 18.MAY.2010 14:45:58

Test mode:	Pi/4QPSK	Test channel:	Highest
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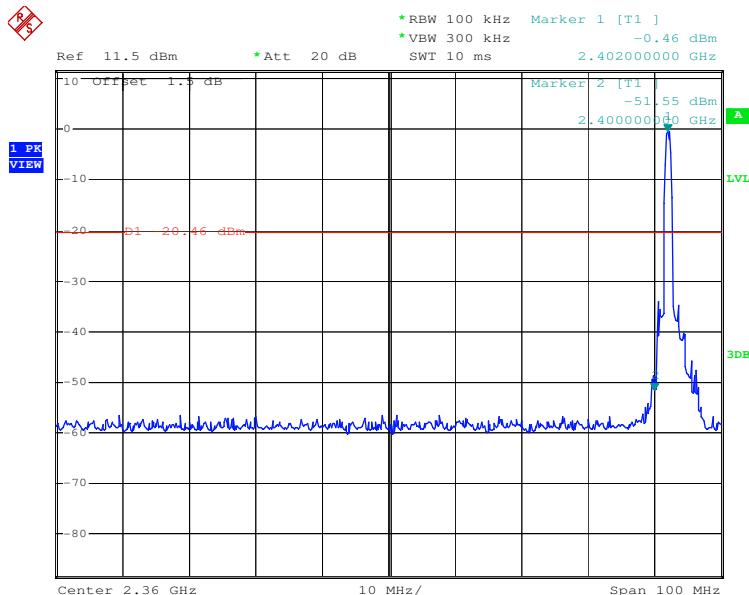


Date: 18.MAY.2010 15:19:07

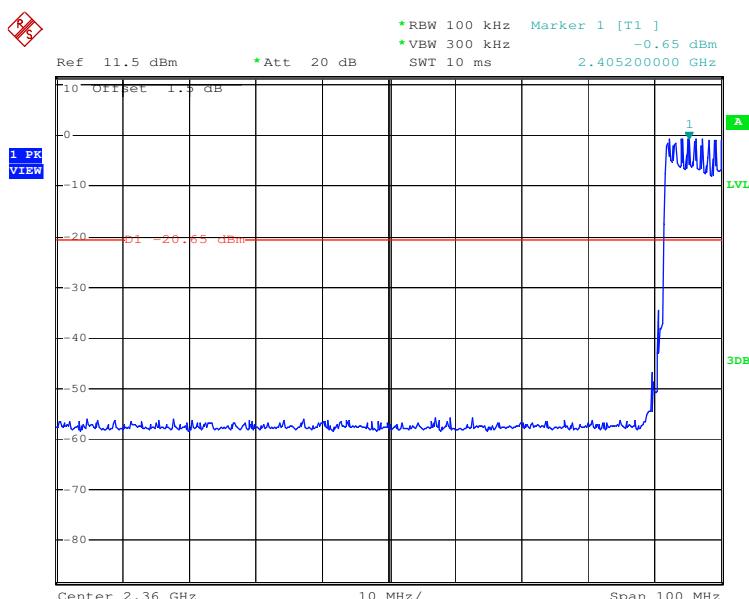


Date: 18.MAY.2010 15:21:42

Test mode:	8DPSK	Test channel:	Lowest
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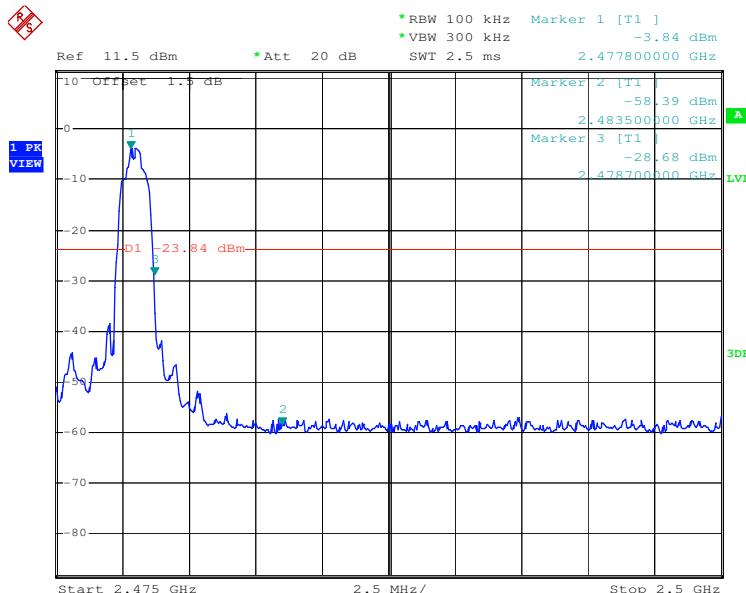


Date: 18.MAY.2010 15:37:40

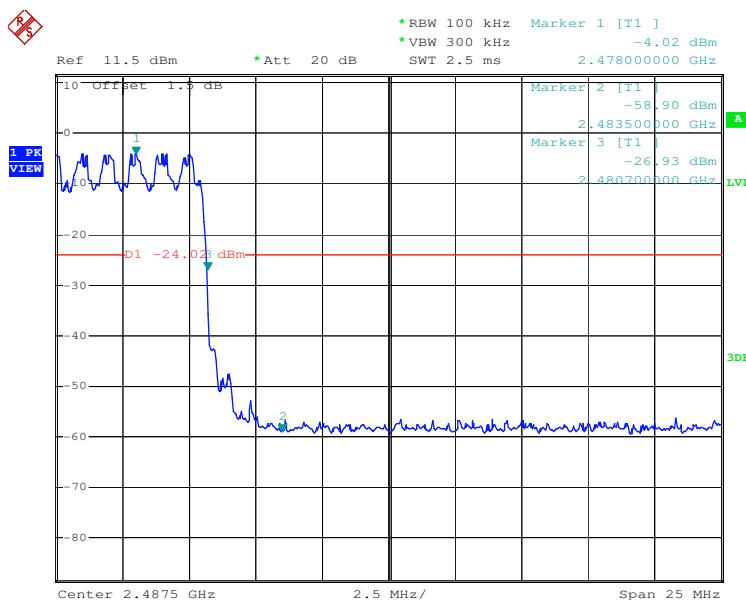


Date: 18.MAY.2010 15:41:25

Test mode:	8DPSK	Test channel:	Highest
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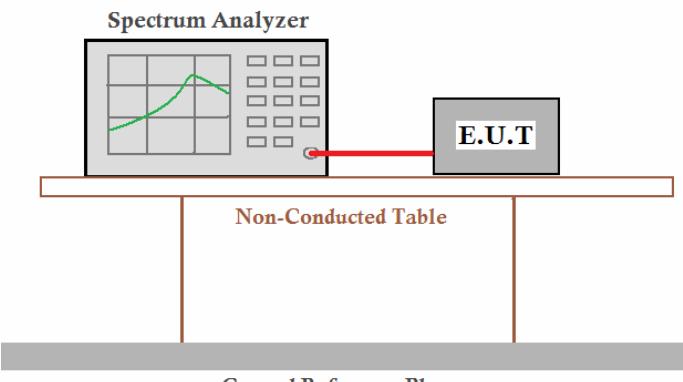


Date: 18.MAY.2010 16:07:27

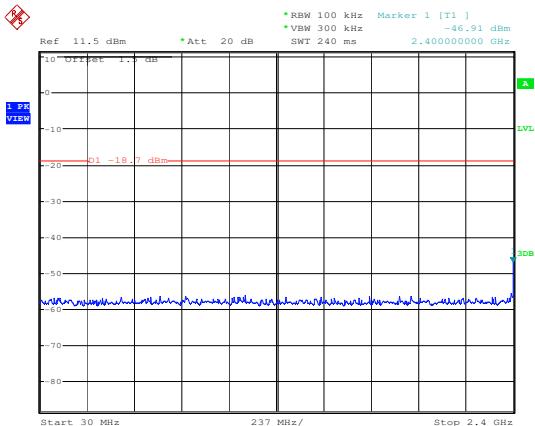


Date: 18.MAY.2010 16:09:35

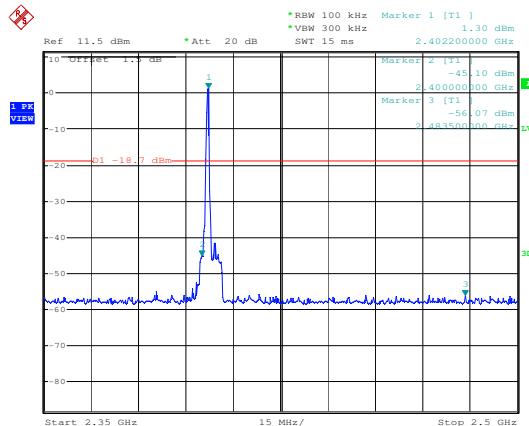
5.9 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	 <p>Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane</p> <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

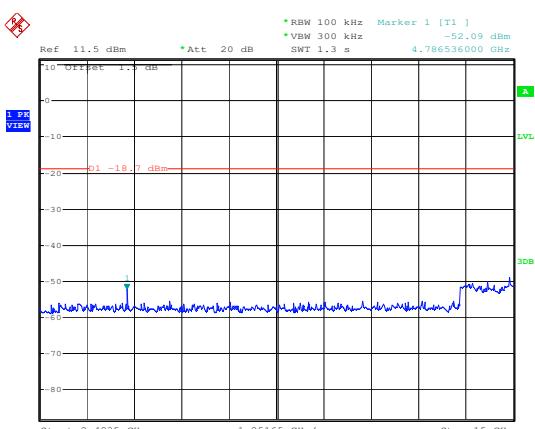
Test mode:	GFSK	Test channel:	Lowest
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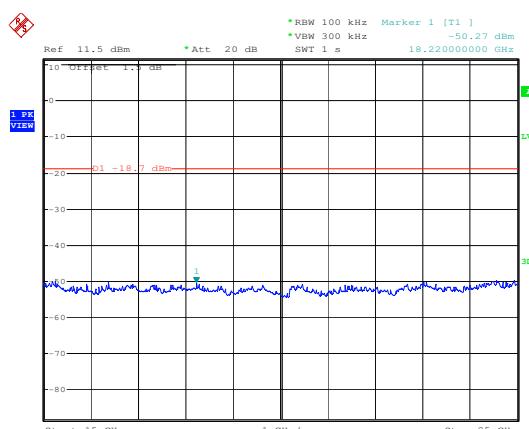
Date: 18.MAY.2010 13:22:21



Date: 18.MAY.2010 13:20:45

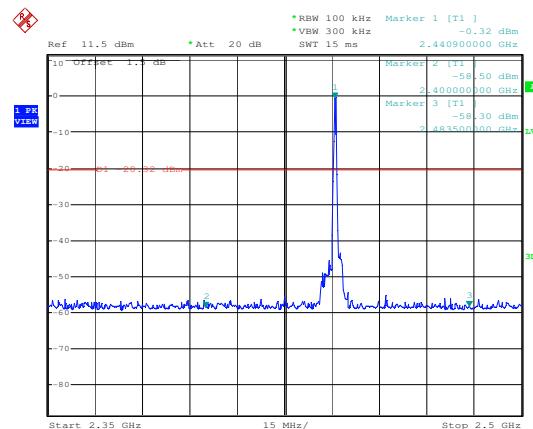
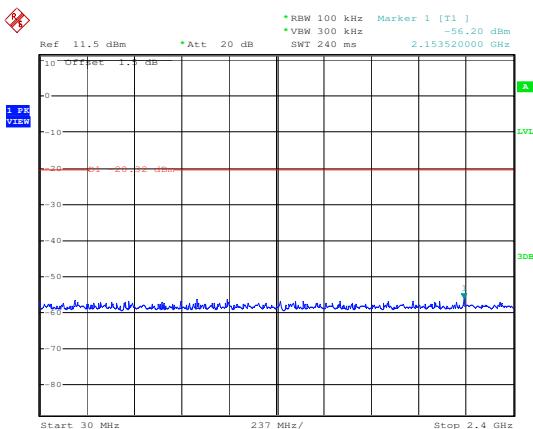


Date: 18.MAY.2010 13:24:48



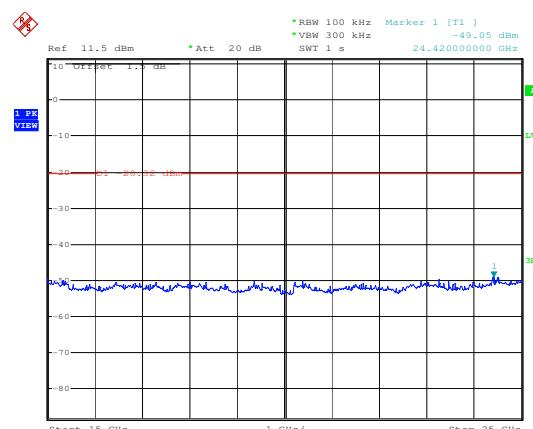
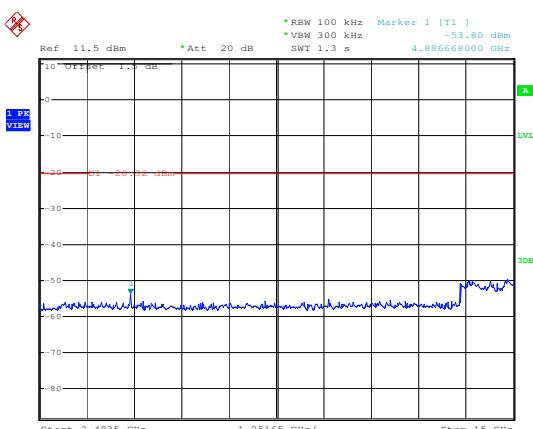
Date: 18.MAY.2010 13:25:59

Test mode:	GFSK	Test channel:	Middle
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Date: 18.MAY.2010 13:49:24

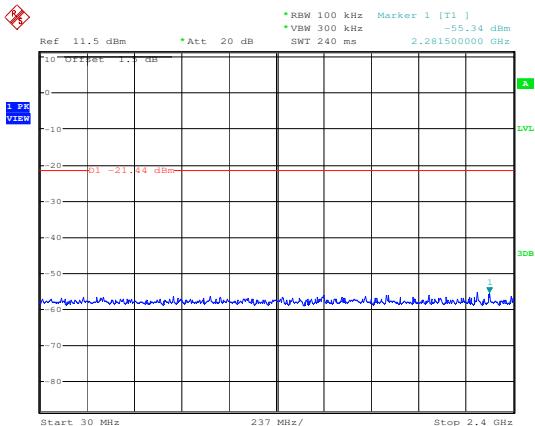
Date: 18.MAY.2010 13:48:27



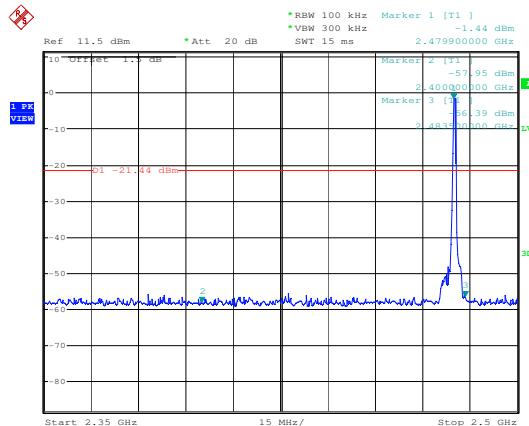
Date: 18.MAY.2010 13:50:42

Date: 18.MAY.2010 13:52:41

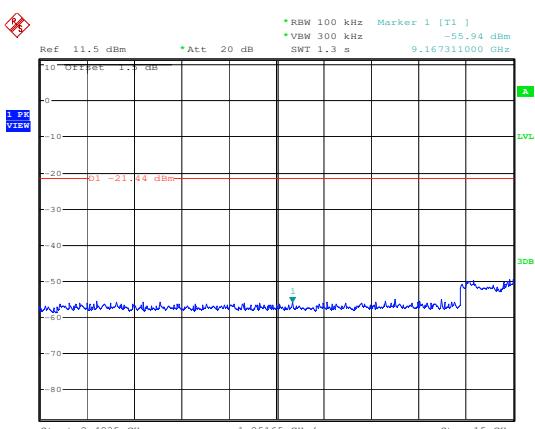
Test mode:	GFSK	Test channel:	Highest
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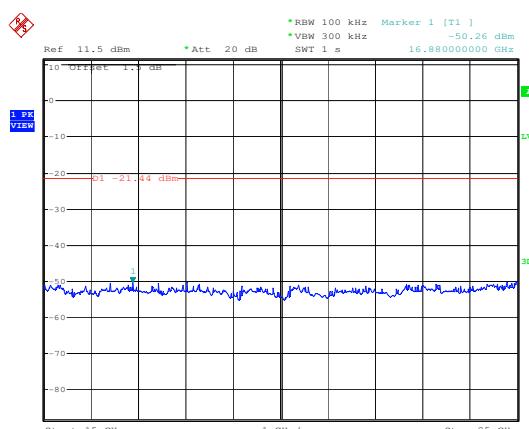
Date: 18.MAY.2010 14:04:25



Date: 18.MAY.2010 14:02:45

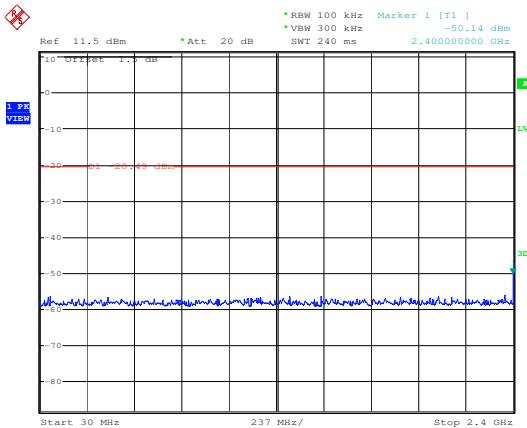


Date: 18.MAY.2010 14:05:50

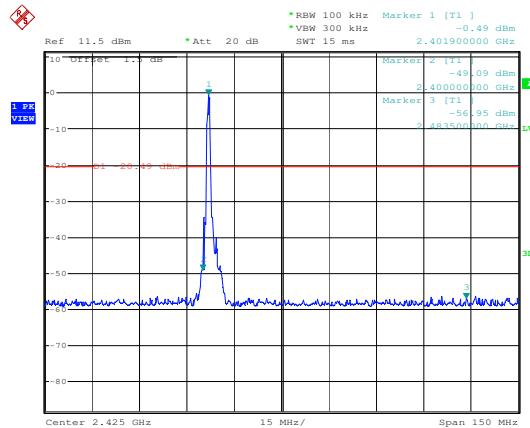


Date: 18.MAY.2010 14:06:46

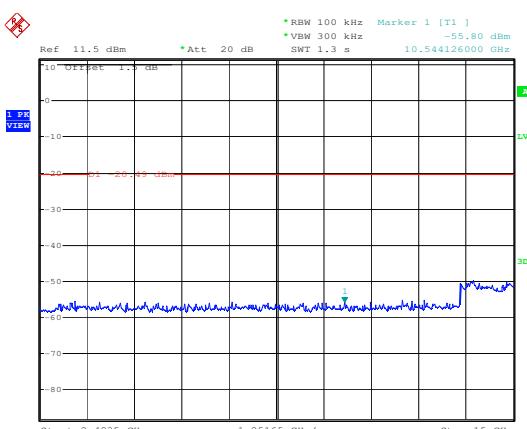
Test mode: Pi/4QPSK Test channel: Lowest



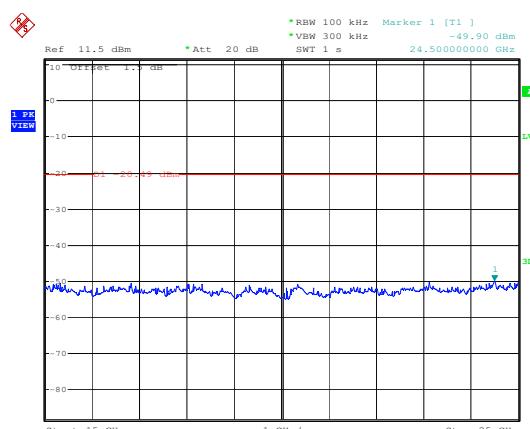
Date: 18.MAY.2010 14:52:28



Date: 18.MAY.2010 14:51:21

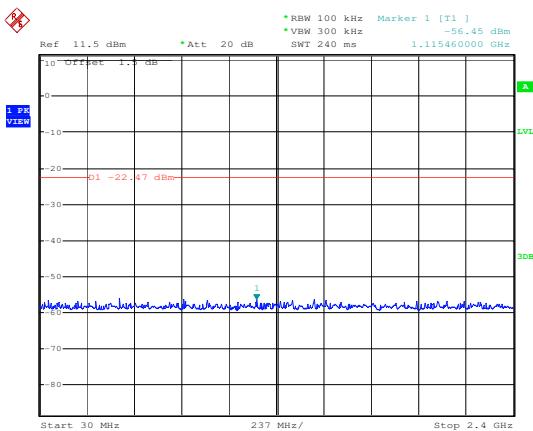


Date: 18 MAY 2010 14:53:31

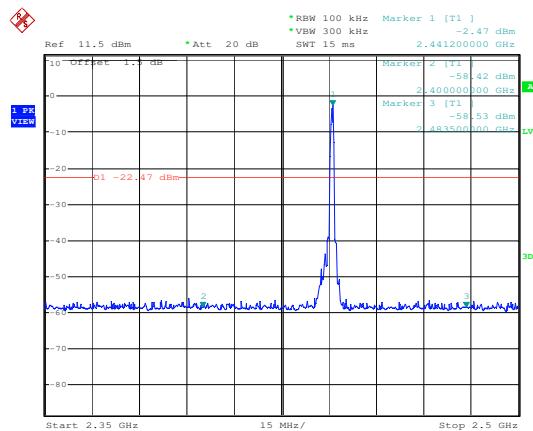


Date: 18 MAY 2010 14:54:18

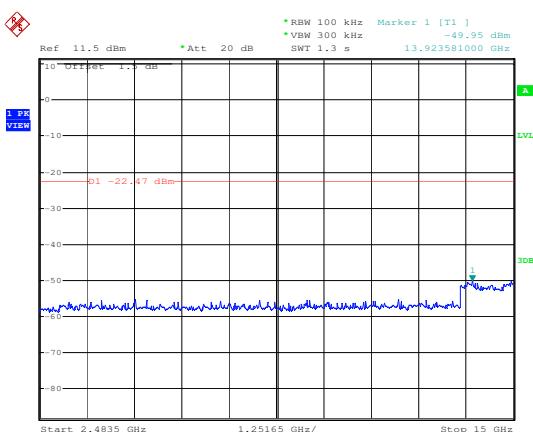
Test mode:	Pi/4QPSK	Test channel:	Middle
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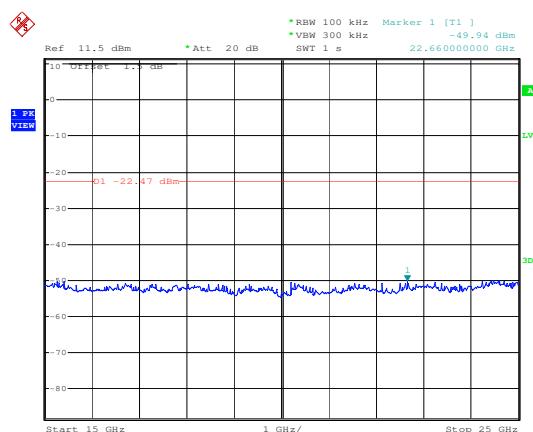
Date: 18.MAY.2010 15:06:09



Date: 18.MAY.2010 15:05:15

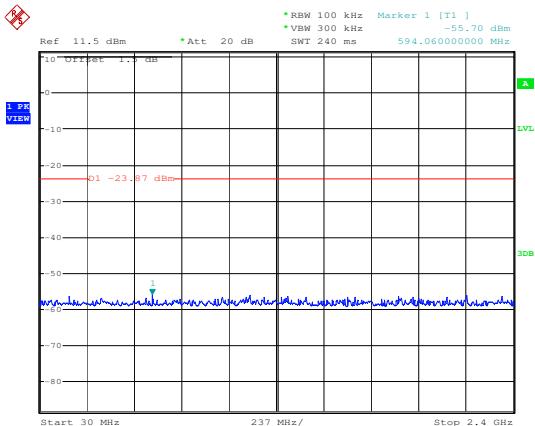


Date: 18.MAY.2010 15:07:13

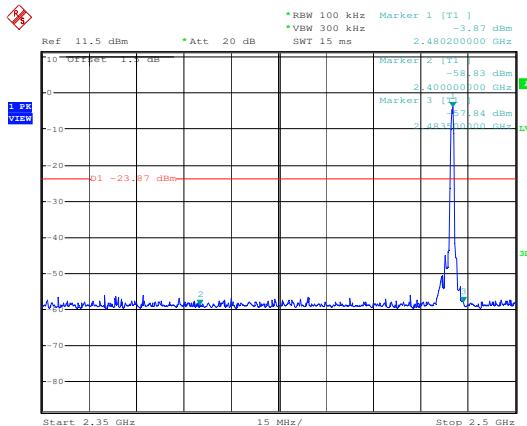


Date: 18.MAY.2010 15:08:14

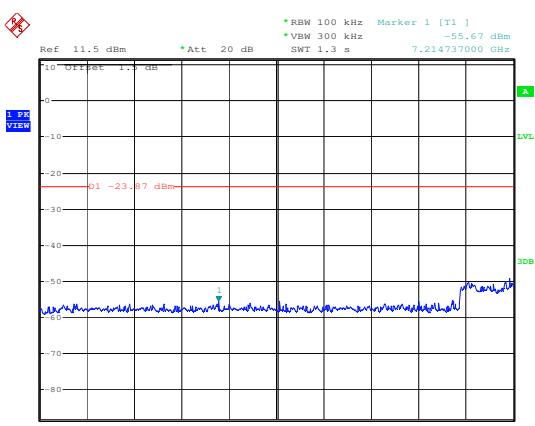
Test mode:	Pi/4QPSK	Test channel:	Highest
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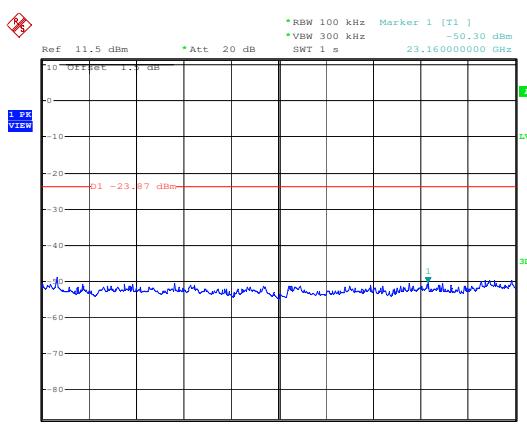
Date: 18.MAY.2010 15:27:58



Date: 18.MAY.2010 15:26:49

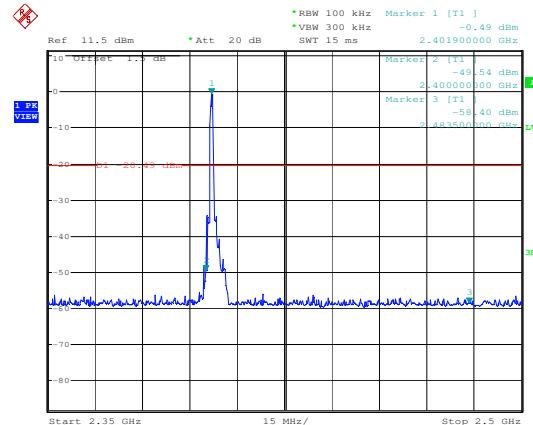
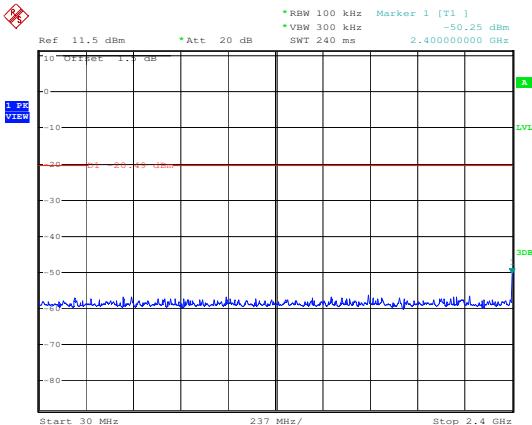


Date: 18.MAY.2010 15:28:55



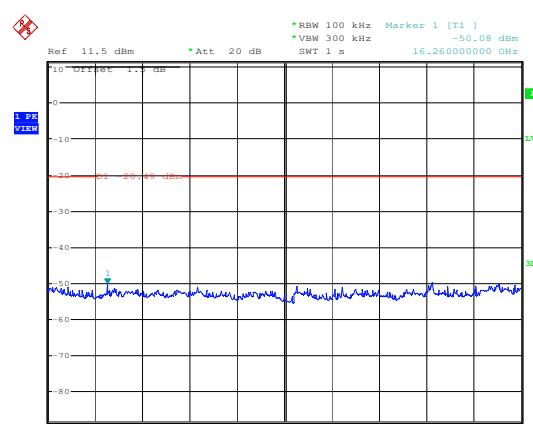
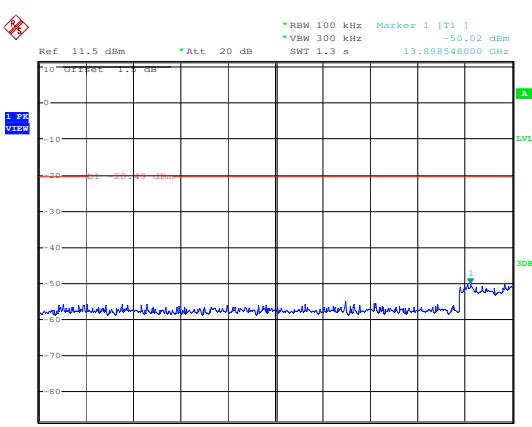
Date: 18.MAY.2010 15:29:42

Test mode:	8DPSK	Test channel:	Lowest
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Date: 18.MAY.2010 15:45:12

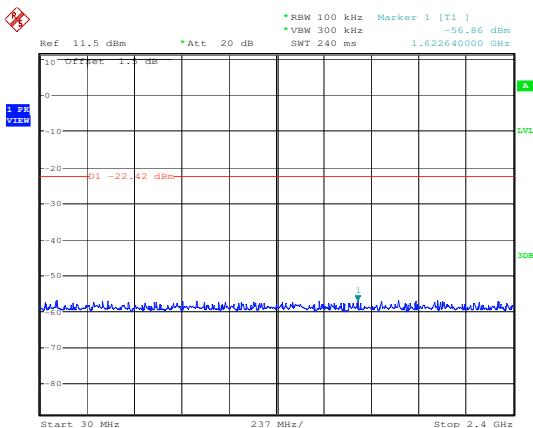
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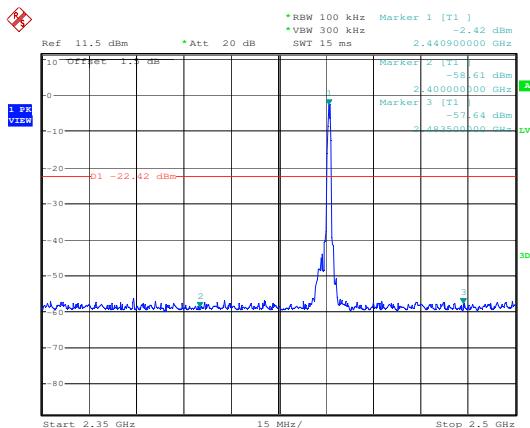
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Date: 18.MAY.2010 15:46:29

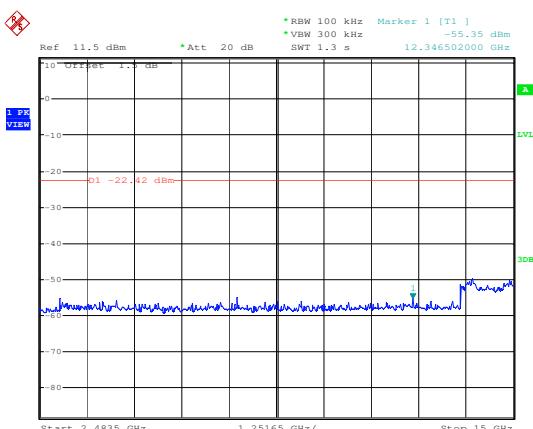
Test mode:	8DPSK	Test channel:	Middle
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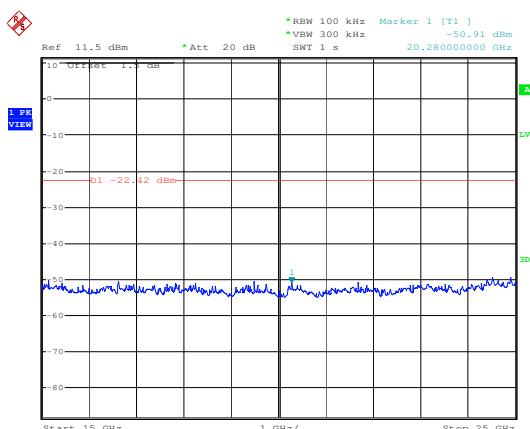
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Date: 18.MAY.2010 15:58:09

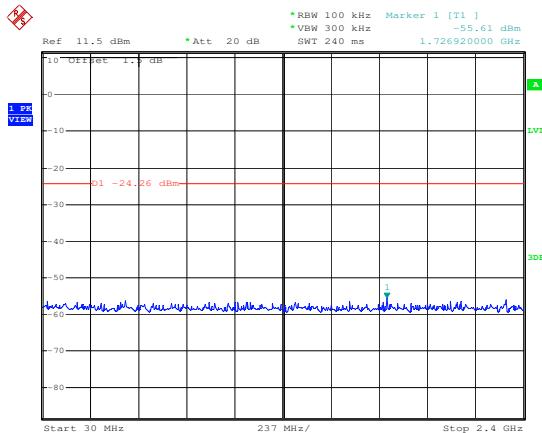


Date: 18.MAY.2010 15:59:21

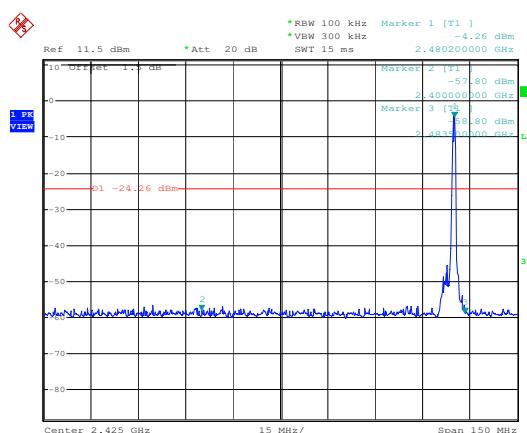


Date: 18.MAY.2010 15:59:55

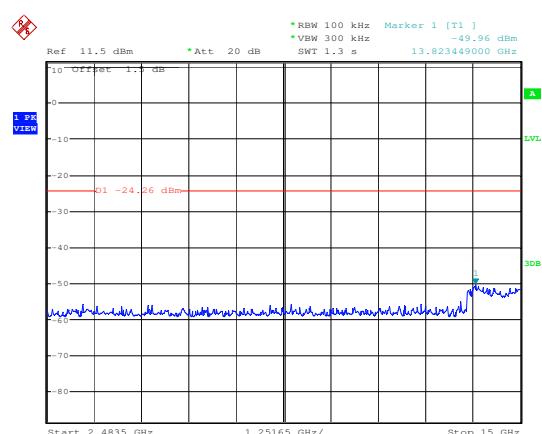
Test mode:	8DPSK	Test channel:	Highest
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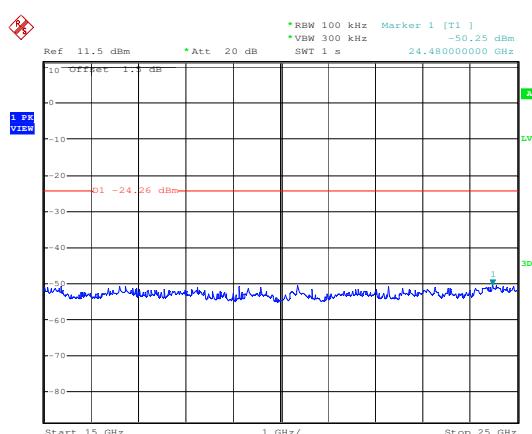
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Date: 18.MAY.2010 16:01:17

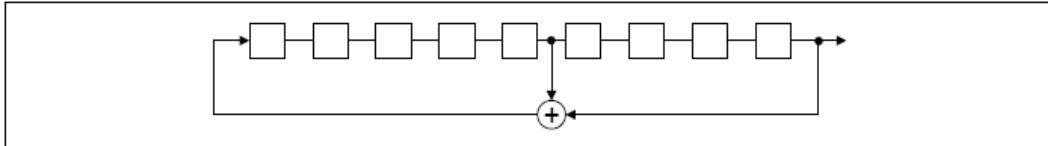


Date: 18.MAY.2010 16:02:20



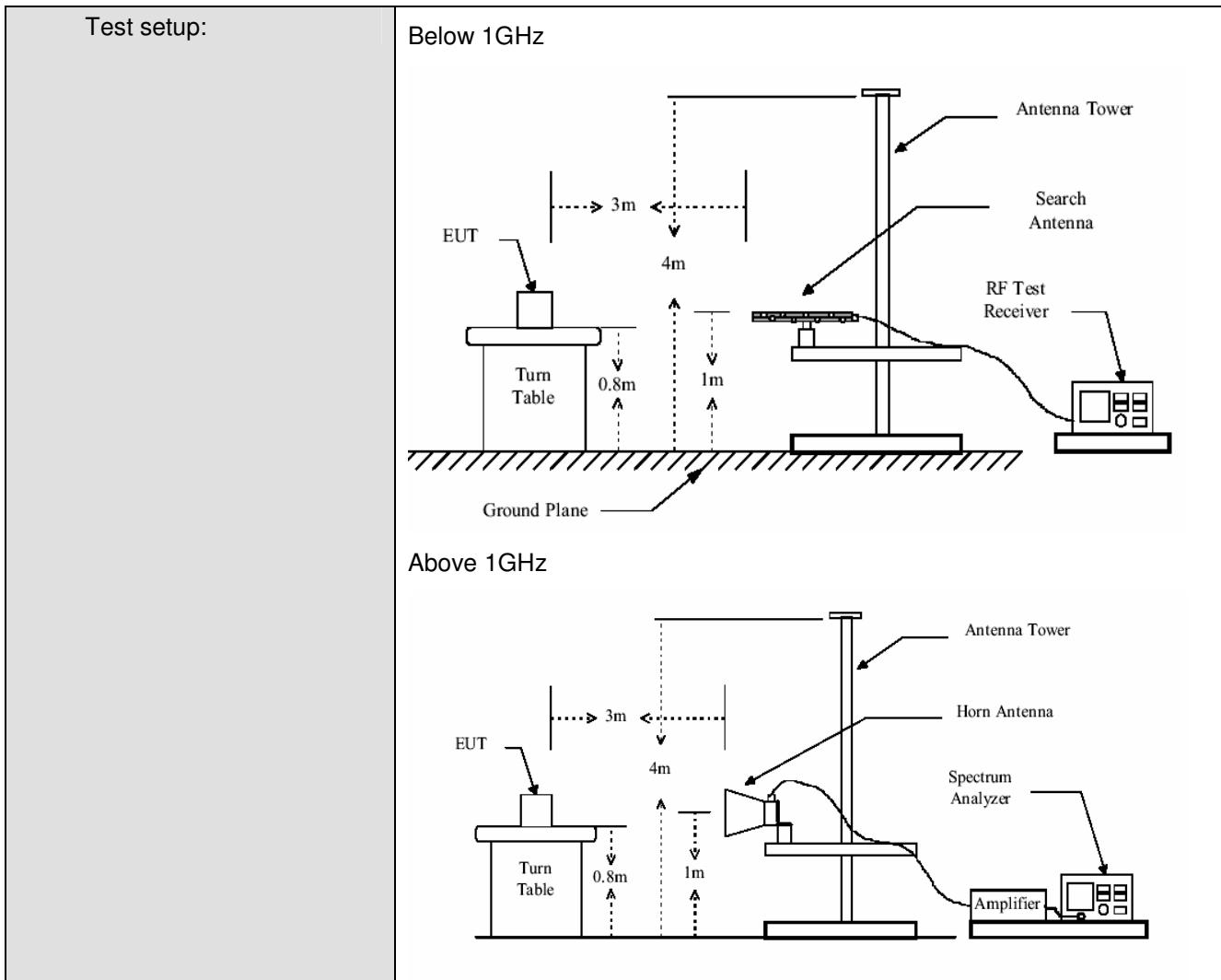
Date: 18.MAY.2010 16:02:51

5.10 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:																						
	<p>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.</p> <p>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 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>																						
EUT Pseudorandom Frequency Hopping Sequence																							
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none">• Number of shift register stages: 9• Length of pseudo-random sequence: $2^9 - 1 = 511$ bits• Longest sequence of zeros: 8 (non-inverted signal)  <p>Linear Feedback Shift Register for Generation of the PRBS sequence</p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p> <table><tr><td>0</td><td>2</td><td>4</td><td>6</td><td>62</td><td>64</td><td>78</td><td>1</td><td>73</td><td>75</td><td>77</td></tr><tr><td> </td><td> </td></tr></table> <p>Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>		0	2	4	6	62	64	78	1	73	75	77											
0	2	4	6	62	64	78	1	73	75	77													

5.11 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 , 15.205 and 15.247(d)																									
Test Method:	ANSI C63.4: 2003 KDB DA00-705																									
Test Frequency Range:	30MHz to 25GHz																									
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																									
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr> <tr> <td>Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr> <tr> <td></td><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr> </tbody> </table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value		Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																						
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																						
Above 1GHz	Peak	1MHz	3MHz	Peak Value																						
	Peak	1MHz	10Hz	Average Value																						
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr> <tr> <td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr> <tr> <td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr> <tr> <td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr> <tr> <td>Above 1GHz</td><td>54.0</td><td>Average Value</td></tr> <tr> <td></td><td>74.0</td><td>Peak Value</td></tr> </tbody> </table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value		74.0	Peak Value
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Above 1GHz	54.0	Average Value																								
	74.0	Peak Value																								
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report. 																									
Test mode:	Non-hopping transmitting with modulation. Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.																									
Test Instruments:	Refer to section 4.7 for details																									
Test results:	Passed																									



Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

5.11.1 Radiated emission below 1GHz

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
46.490	0.73	9.03	28.10	49.12	30.78	40.00	-9.22	Vertical
68.800	0.80	6.94	28.01	47.87	27.60	40.00	-12.40	Vertical
98.870	1.19	9.06	27.89	48.89	31.25	43.50	-12.25	Vertical
163.860	1.34	9.56	27.36	41.97	25.51	43.50	-17.99	Vertical
206.540	1.44	10.52	27.12	43.15	27.99	43.50	-15.51	Vertical
430.610	2.33	16.52	27.51	37.10	28.44	46.00	-17.56	Vertical
97.900	1.18	9.02	27.89	40.25	22.56	43.50	-20.94	Horizontal
170.650	1.35	9.53	27.32	36.87	20.43	43.50	-23.07	Horizontal
202.660	1.42	10.32	27.14	39.61	24.21	43.50	-19.29	Horizontal
276.380	1.80	12.85	26.81	38.42	26.26	46.00	-19.74	Horizontal
428.670	2.32	16.46	27.50	35.27	26.55	46.00	-19.45	Horizontal
708.030	2.93	21.60	27.25	31.66	28.94	46.00	-17.06	Horizontal

Remark: the data above is tested with QP detector mode.

5.11.2 Transmitter emission above 1GHz

Test mode:	GFSK	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804	9.36	34.25	41.53	43.45	45.53	74.00	-28.47	Vertical
7206	13.38	37.23	40.98	44.15	53.78	74.00	-20.22	Vertical
9608	13.39	37.99	37.56	38.62	52.44	74.00	-21.56	Vertical
12010	16.45	39.10	39.09	37.48	53.94	74.00	-20.06	Vertical
4804	9.36	34.25	41.53	44.06	46.14	74.00	-27.86	Horizontal
7206	13.38	37.23	40.98	42.66	52.29	74.00	-21.71	Horizontal
9608	13.39	37.99	37.56	39.69	53.51	74.00	-20.49	Horizontal
12010	16.45	39.10	39.09	37.16	53.62	74.00	-20.38	Horizontal

Test mode:	GFSK	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit (dB)	Polarization
4882	10.57	34.35	40.33	45.83	50.42	74.00	-23.58	Vertical
7323	12.91	37.31	40.40	43.53	53.35	74.00	-20.65	Vertical
9764	13.89	38.03	37.94	39.71	53.69	74.00	-20.31	Vertical
12205	17.95	39.23	39.30	35.49	53.37	74.00	-20.63	Vertical
4882	10.57	34.35	40.33	43.80	48.39	74.00	-25.61	Horizontal
7323	12.91	37.31	40.40	43.79	53.61	74.00	-20.39	Horizontal
9764	13.89	38.03	37.94	39.61	53.59	74.00	-20.41	Horizontal
12205	17.95	39.23	39.30	35.98	53.86	74.00	-20.14	Horizontal

Test mode:	GFSK	Test channel:	Highest	Remark:	Peak
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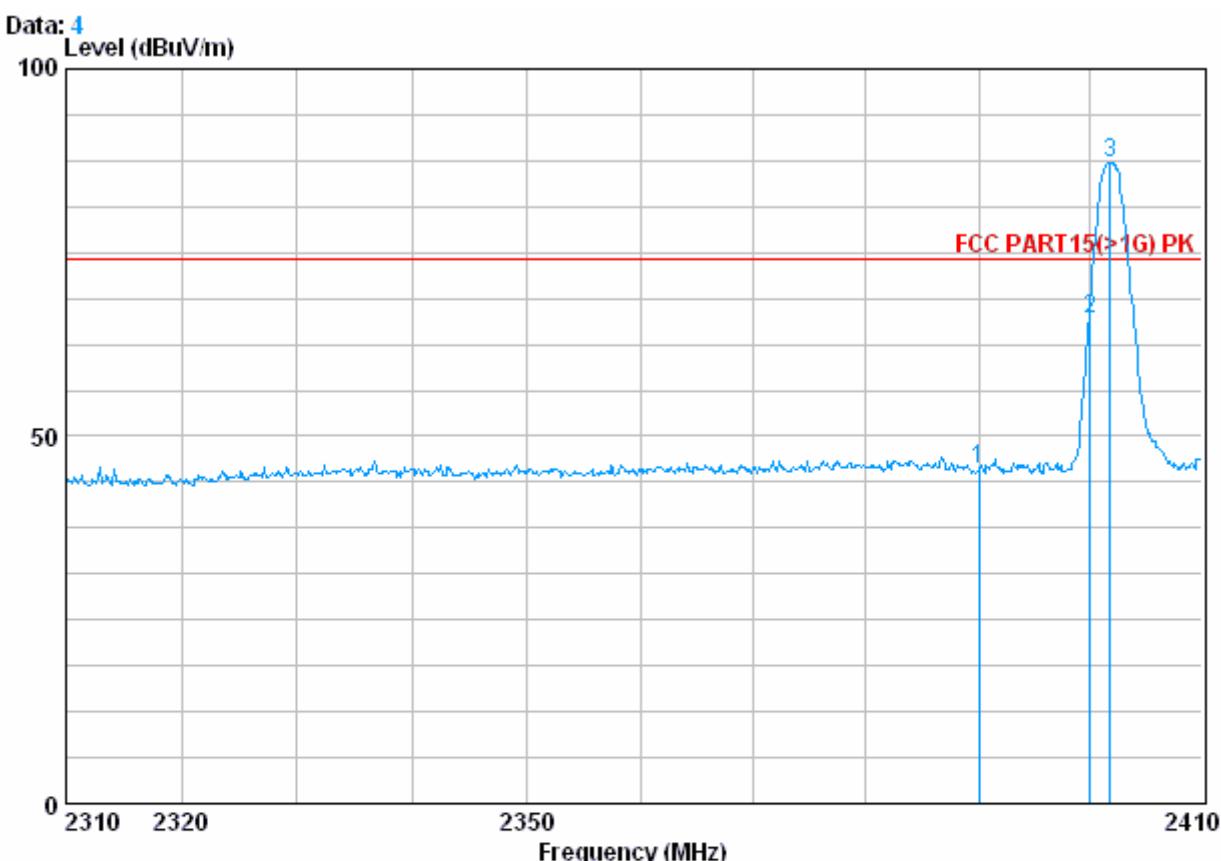
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit (dB)	Polarization
4960	10.43	34.45	41.03	45.43	49.28	74.00	-24.72	Vertical
7440	12.72	37.37	40.01	43.00	53.08	74.00	-20.92	Vertical
9920	14.24	38.08	37.78	38.65	53.19	74.00	-20.81	Vertical
12400	17.55	39.34	39.48	36.08	53.49	74.00	-20.51	Vertical
4960	10.43	34.45	41.03	44.50	48.35	74.00	-25.65	Horizontal
7440	12.72	37.37	40.01	43.17	53.25	74.00	-20.75	Horizontal
9920	14.24	38.08	37.78	38.09	52.63	74.00	-21.37	Horizontal
12400	17.55	39.34	39.48	35.64	53.05	74.00	-20.95	Horizontal

Remark:1. The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

2. As shown in this section, for frequencies above, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

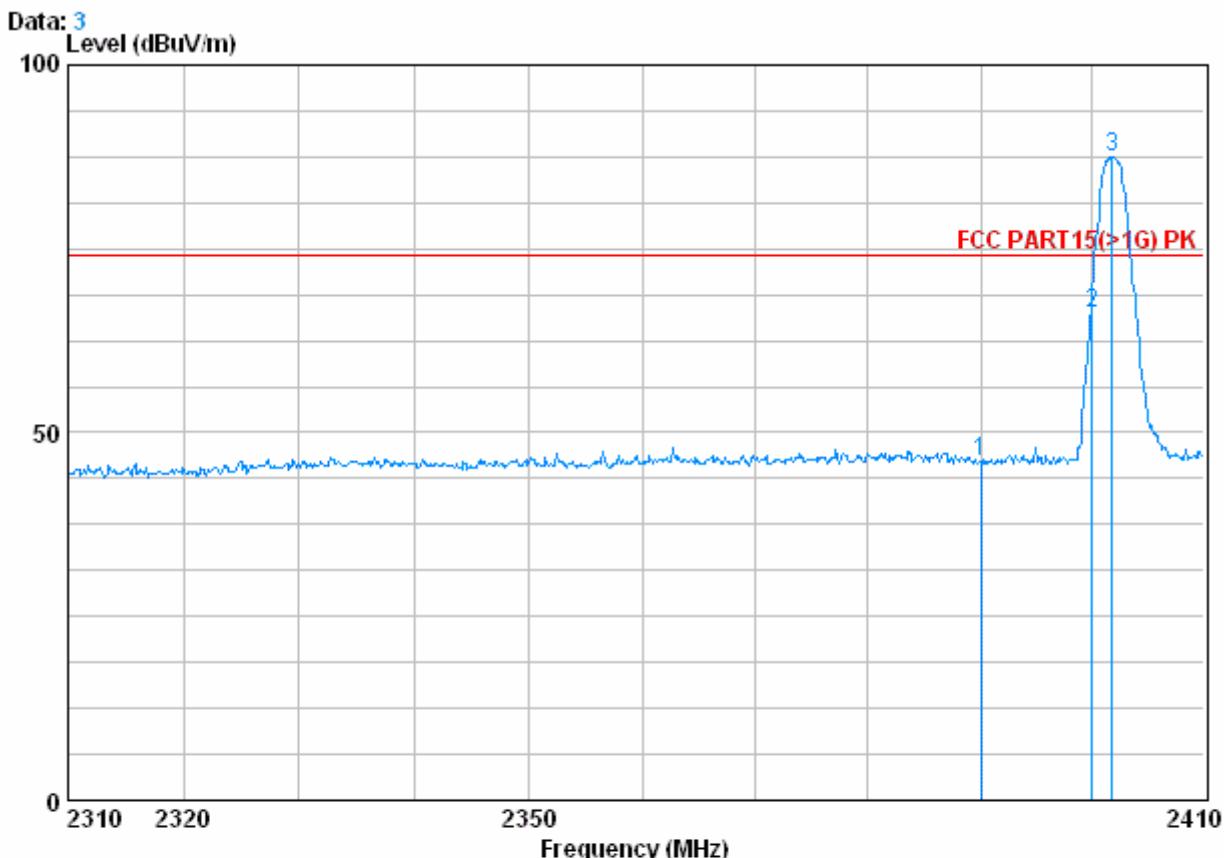
5.11.3 Band Edge and Restricted band (Radiated measurement)

Test mode:	GFSK	Test channel:	Lowest	Polarization:	Vertical
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Freq	Cable		Antenna	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level	Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	45.96	45.45	74.00	-28.55
2	2400.000	6.34	32.25	38.87	66.15	65.86	74.00	-8.14
3 X	2401.800	6.34	32.25	38.87	87.59	87.31	74.00	13.31

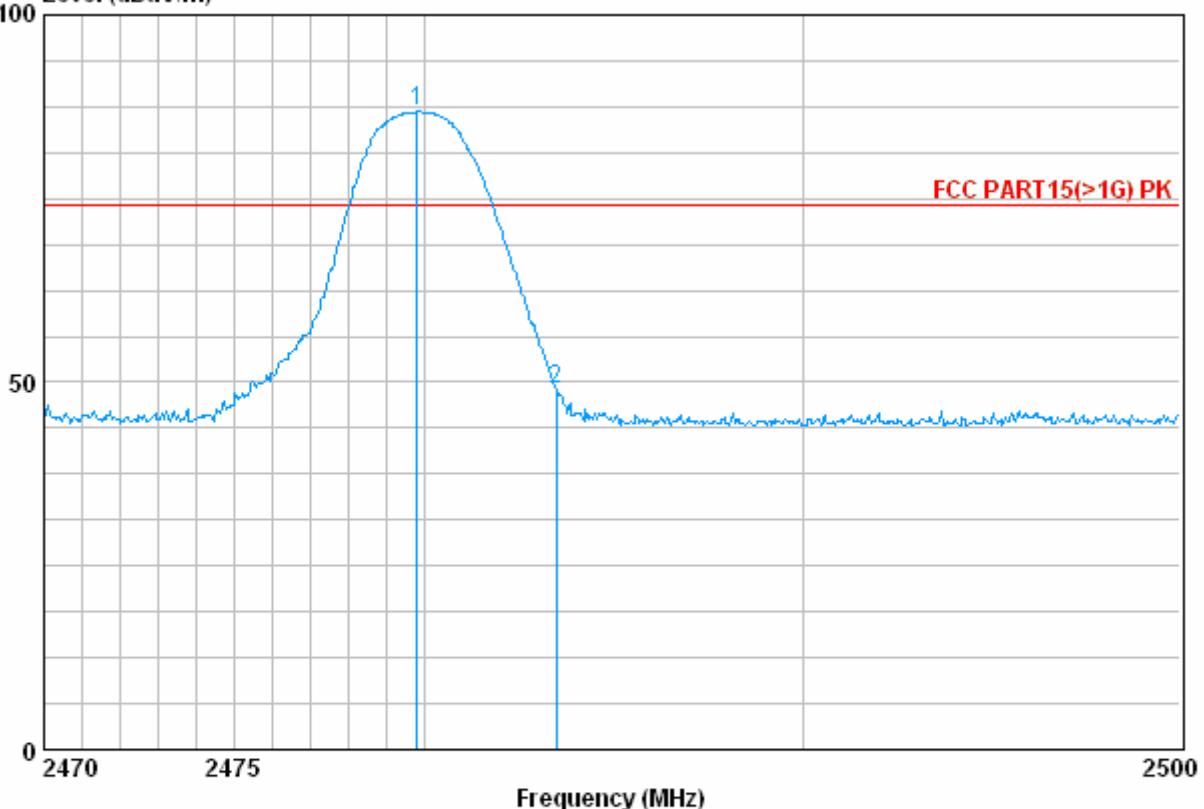
Test mode:	GFSK	Test channel:	Lowest	Polarization:	Horizontal
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Freq	Cable			Antenna	Preamp	Read	Limit	Over
	Loss	Factor	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	46.54	46.03	74.00	-27.97
2	2400.000	6.34	32.25	38.87	66.38	66.10	74.00	-7.90
3	2401.800	6.34	32.25	38.87	87.66	87.38	74.00	13.38

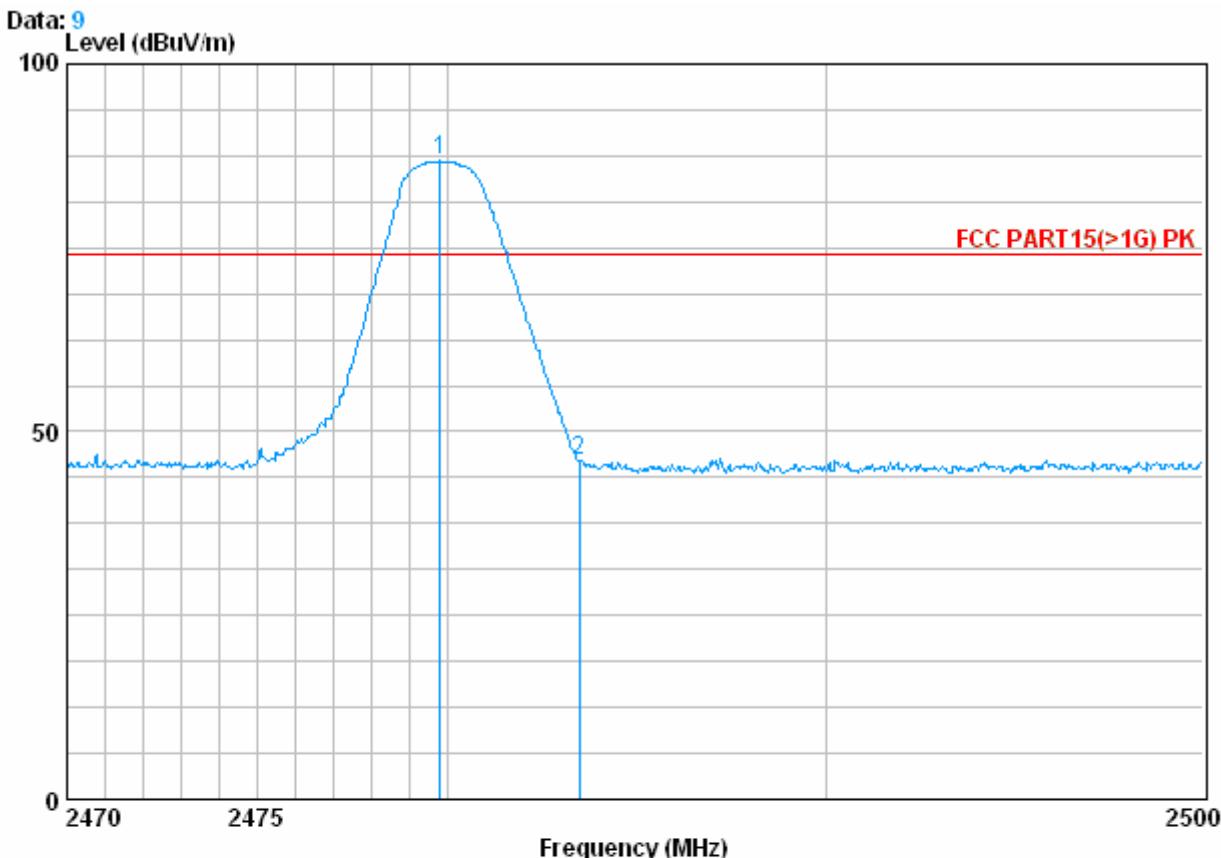
Test mode:	GFSK	Test channel:	Highest	Polarization:	Vertical
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Data: 10
Level (dBuV/m)



Freq	Cable	Antenna	Preamp	Read	Limit	Line	Over	
	Loss	Factor	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2479.810	6.45	32.29	39.72	87.79	86.81	74.00	12.81
2	2483.500	6.22	32.29	39.53	50.10	49.08	74.00	-24.92

Test mode:	GFSK	Test channel:	Highest	Polarization:	Horizontal
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Freq	MHz	Cable	Antenna	Preamp	Read	Limit	Over	
		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2479.810	6.45	32.29	39.72	87.77	86.79	74.00	12.79
2	2483.500	6.22	32.29	39.53	46.95	45.93	74.00	-28.07

Remark: As shown in this section, for the above band edge emission, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation