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Report No.: SZEMO10090583401
Page : 1 of 68

FCC REPORT

Application No: SZEMO100905834RF
Applicant/Manufacturer: Altec Lansing, LLC
Factory: Dong Guan Tai Sing Manufacturing Factory
Product Name: Dongle iMW725
Allowable Frequency Range: 2400MHz to 2483.5MHz
FCC ID: VJS-A13998
Standards: FCC CFR Title 47 Part 15 C Section 15.247: 2009
Date of Receipt: 2010-09-10
Date of Test: 2010-09-10 to 2010-09-29
Date of Issue: 2010-10-20

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

Authorized Signature:



Jack Zhang
Laboratory 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)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (b)	Pass
Dwell Time	15.247 (a)(1)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

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/Manufacturer:	Altec Lansing, LLC
Factory:	Dong Guan Tai Sing Manufacturing Factory
Address of Applicant:	535 Routes 6 & 209, Milford, PA 18337, USA
Address of Manufacturer:	535 Routes 6 & 209, Milford, PA 18337, USA
Address of Factory:	Tai Sing Industrial Road, Bai Zhou Bian Village, Dong Cheng, Dongguan City, Guangdong Province 523113, P.R. China

4.2 General Description of E.U.T.

Product Name:	Dongle iMW725
Item No.:	A13998
Trade mark:	ALTEC LANSING
Allowable Frequency Range:	2400MHz~2483.5MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	0dBi
EUT Power Supply:	USB Voltage:5.0V d.c.



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 for testing see below:

Channel	Frequency
lowest channel	2402MHz
middle channel	2441MHz
highest channel	2480MHz

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4.3 E.U.T Operation mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1010 mBar
Test mode:	
Transmitting	Keep the EUT Transmitted the continuous modulation signal at the specific channel(s).

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 (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2010-06-17	2011-06-17
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2009-11-05	2010-11-05
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2009-11-05	2010-11-05
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2009-11-10	2010-11-10
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2009-11-10	2010-11-10
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2010-06-02	2011-06-02
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2009-12-18	2010-12-18
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	2010-06-04	2011-06-04
11	Band filter	Amindeon	82346	SEL0094	2010-06-02	2011-06-02

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2010-06-02	2011-06-02
3	Two-Line V-Network	Rohde & Schwarz	ENV216	SEL0152	2009-10-22	2010-10-22
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2010-06-02	2011-06-02
5	Coaxial Cable	SGS	N/A	SEL0024	2008-06-18	2011-06-18




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

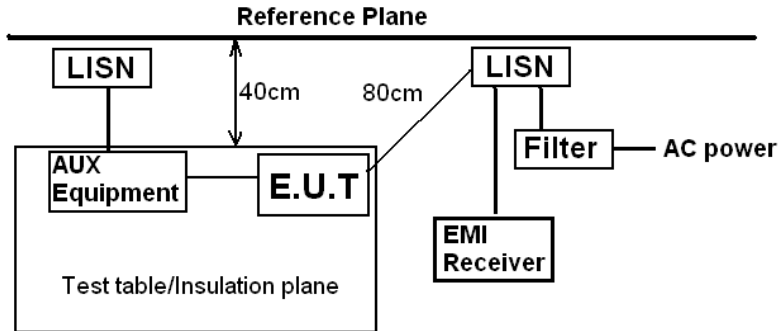
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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement: <i>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.</i></p> <p>15.247(c) (1)(i) requirement: <i>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</i></p>	
E.U.T Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best gain of the antenna is 0dBi.</p>	
	

5.2 Conducted Emissions

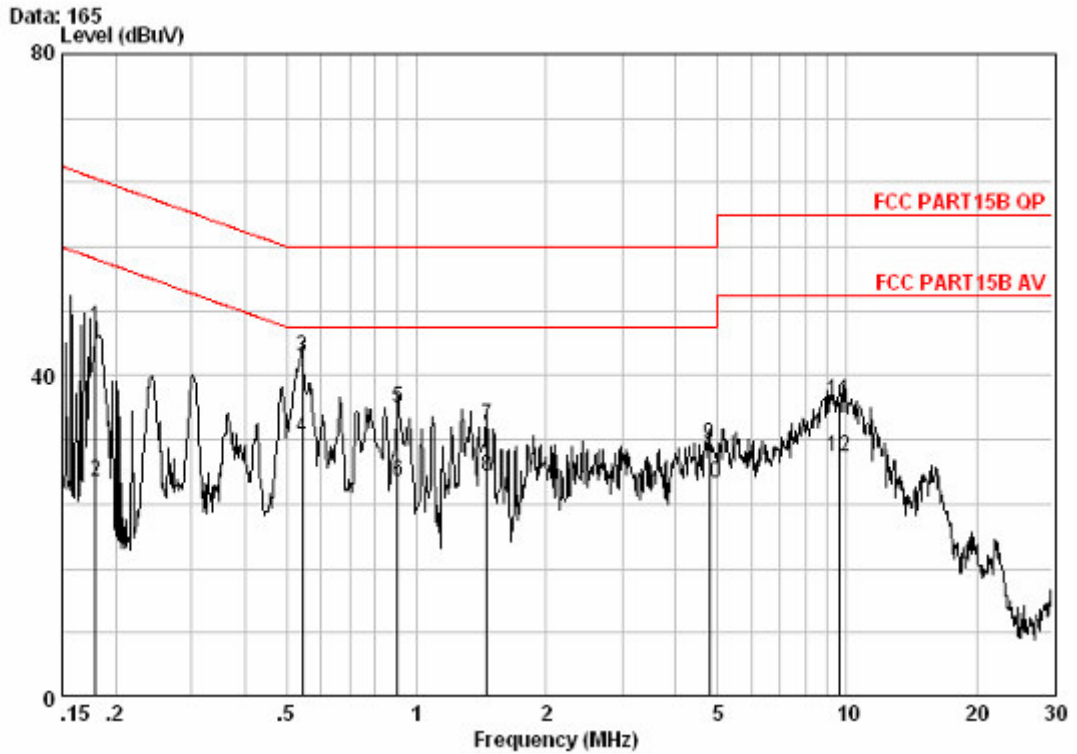
Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10: 2009														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <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> <p>* Decreases with the logarithm of the frequency.</p>	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													
Test procedure	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 refers 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 C63.10: 2009 on conducted measurement.														
Test setup:	 <p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p>														
Test Instruments:	Refer to section 4.7 for details														
Test mode:	Transmitting														
Test result:	Pass														

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:



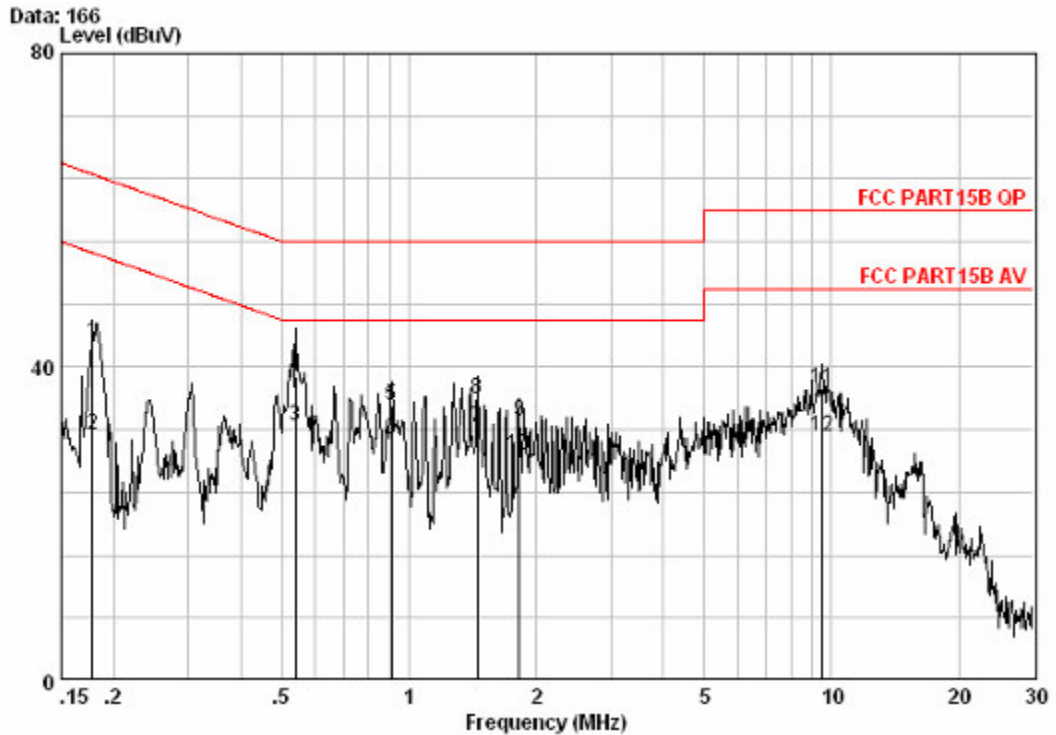
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17961	0.14	-0.05	45.82	45.92	64.50	-18.59	QP
2	0.17961	0.14	-0.05	26.70	26.79	54.50	-27.71	Average
3	0.54355	0.16	-0.04	42.08	42.20	56.00	-13.80	QP
4	0.54355	0.16	-0.04	32.10	32.22	46.00	-13.78	Average
5	0.90394	0.19	-0.05	35.80	35.94	56.00	-20.06	QP
6	0.90394	0.19	-0.05	26.60	26.74	46.00	-19.26	Average
7	1.456	0.20	-0.06	33.66	33.80	56.00	-22.20	QP
8	1.456	0.20	-0.06	27.40	27.54	46.00	-18.46	Average
9	4.797	0.22	-0.11	31.32	31.43	56.00	-24.57	QP
10	4.797	0.22	-0.11	26.50	26.61	46.00	-19.39	Average
11	9.603	0.27	-0.28	36.85	36.84	60.00	-23.16	QP
12	9.603	0.27	-0.28	29.80	29.79	50.00	-20.21	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.

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Neutral line:



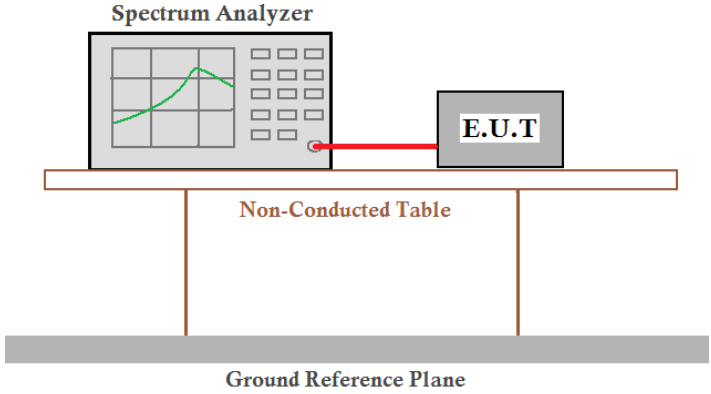
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17772	0.14	-0.04	43.00	43.10	64.59	-21.49	QP
2	0.17772	0.14	-0.04	31.20	31.30	54.59	-23.30	Average
3	0.53782	0.16	-0.04	32.40	32.52	46.00	-13.48	Average
4	0.53782	0.16	-0.04	38.76	38.88	56.00	-17.12	QP
5	0.90874	0.19	-0.04	35.02	35.17	56.00	-20.83	QP
6	0.90874	0.19	-0.04	30.60	30.75	46.00	-15.25	Average
7	1.449	0.20	-0.05	32.10	32.25	46.00	-13.75	Average
8	1.449	0.20	-0.05	35.72	35.87	56.00	-20.13	QP
9	1.819	0.20	-0.06	32.92	33.06	56.00	-22.94	QP
10	1.819	0.20	-0.06	28.70	28.84	46.00	-17.16	Average
11	9.502	0.27	-0.31	37.34	37.30	60.00	-22.70	QP
12	9.502	0.27	-0.31	31.20	31.16	50.00	-18.84	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.

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5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	30dBm
Test setup:	 <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 all kinds of modulation.
Test results:	Pass



Measurement Data

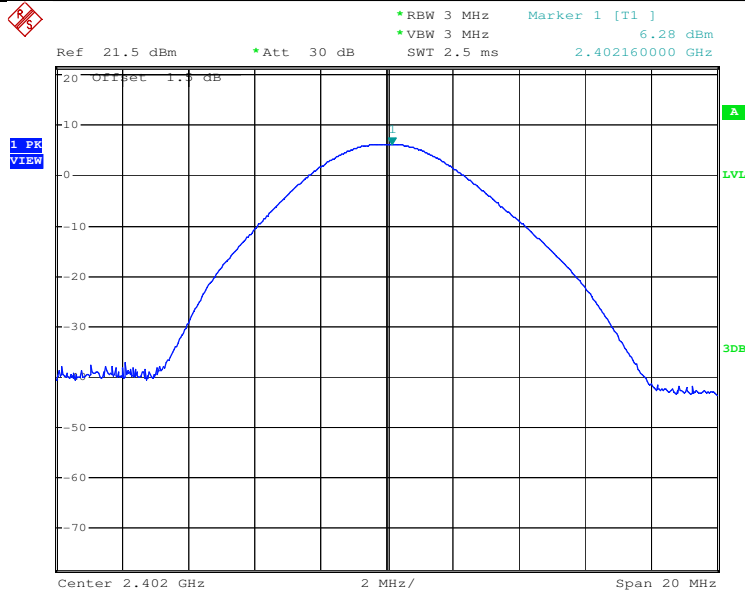
GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.28	30.00	Pass
Middle	5.49	30.00	Pass
Highest	4.05	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	4.34	30.00	Pass
Middle	3.74	30.00	Pass
Highest	2.32	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	4.50	30.00	Pass
Middle	3.79	30.00	Pass
Highest	2.33	30.00	Pass

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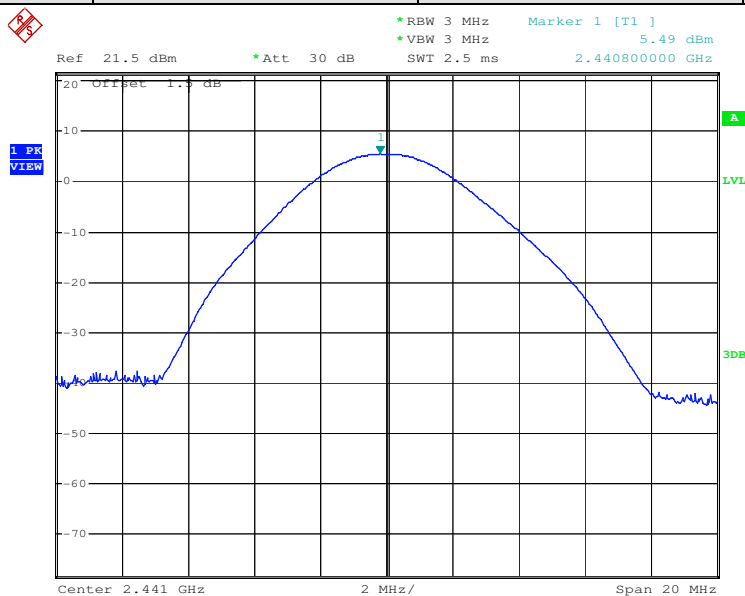
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 21.SEP.2010 08:09:31

Test mode:	GFSK	Test channel:	Middle
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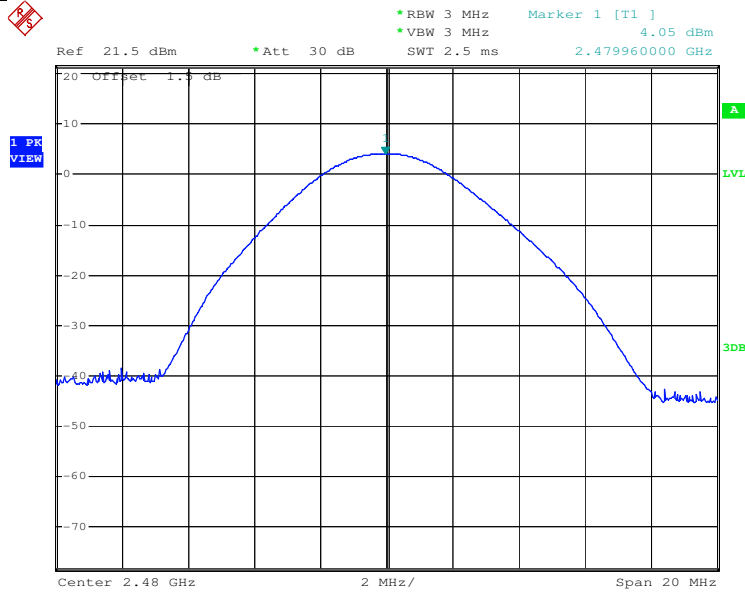


Date: 21.SEP.2010 08:15:08

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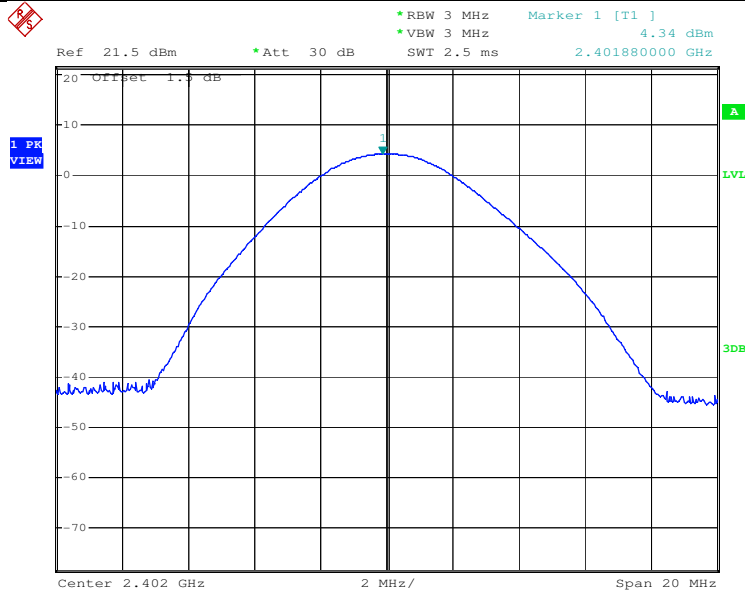


Test mode:	GFSK	Test channel:	Highest
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Date: 21.SEP.2010 08:23:25

Test mode:	Pi/4QPSK	Test channel:	Lowest
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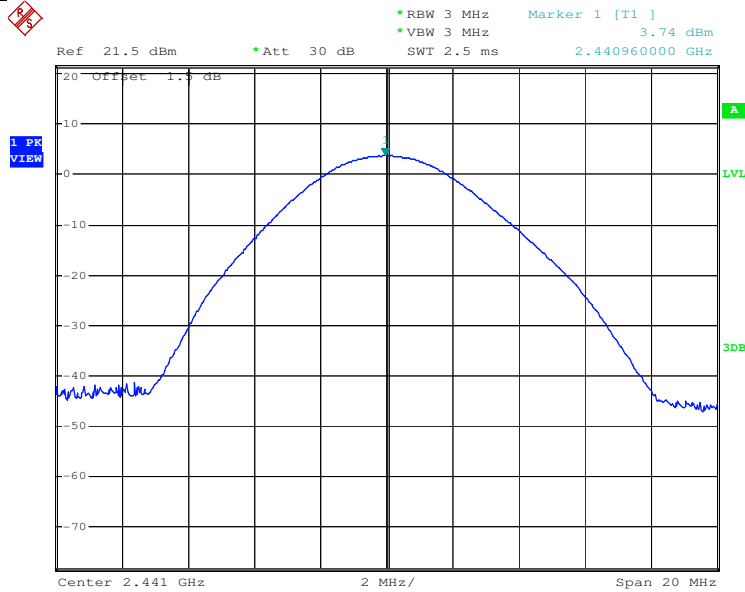


Date: 21.SEP.2010 09:38:32

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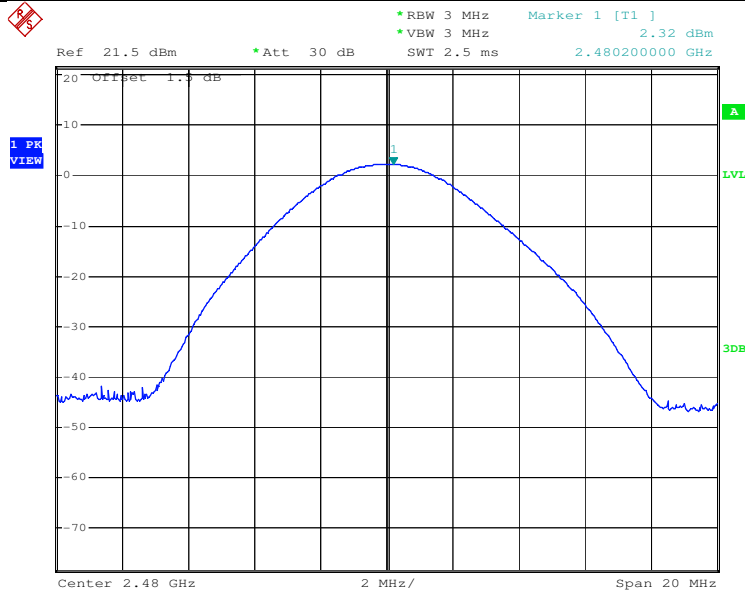


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 21.SEP.2010 09:50:51

Test mode:	Pi/4QPSK	Test channel:	Highest
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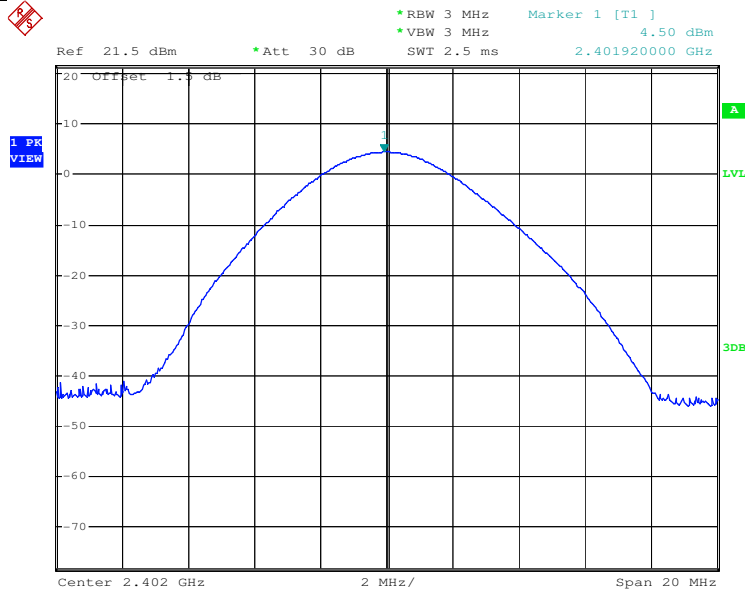


Date: 21.SEP.2010 10:03:56

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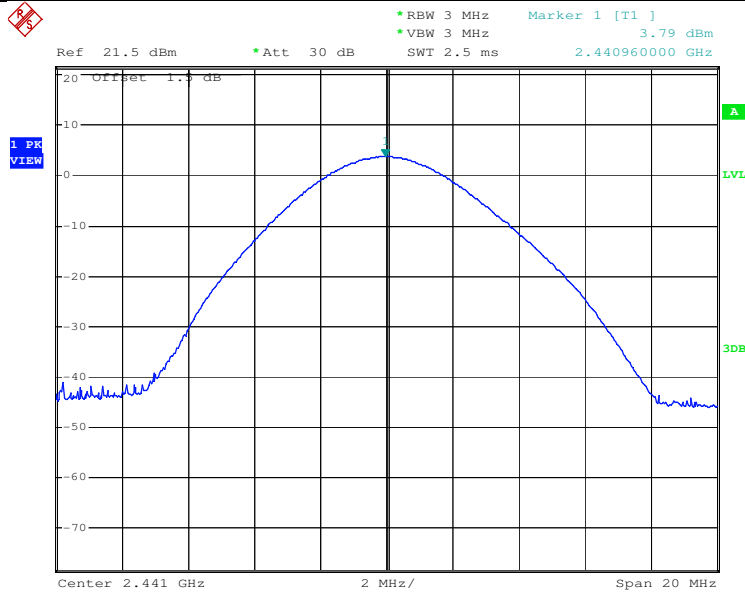


Test mode:	8DPSK	Test channel:	Lowest
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Date: 25.SEP.2010 10:40:51

Test mode:	8DPSK	Test channel:	Middle
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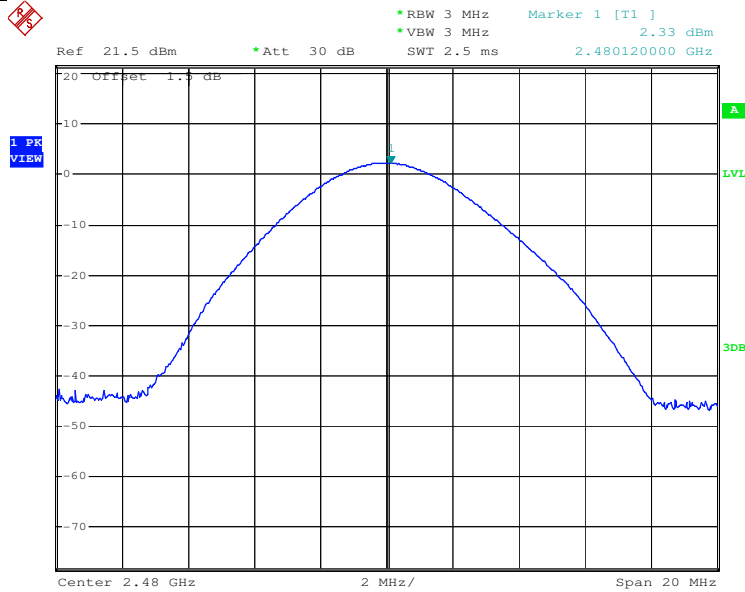


Date: 25.SEP.2010 12:02:55

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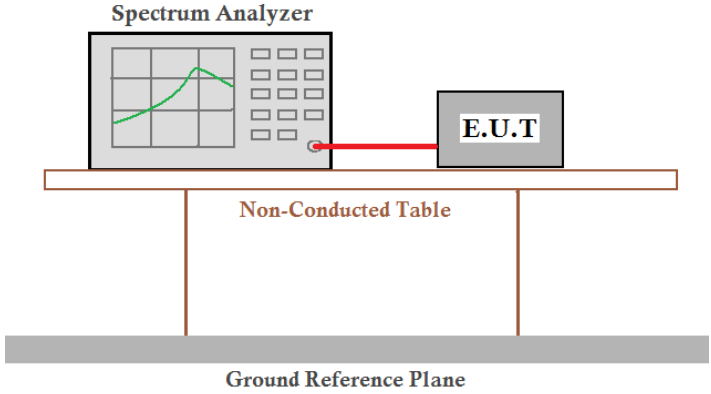
Test mode:	8DPSK	Test channel:	Highest
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Date: 25.SEP.2010 12:13:07

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5.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	NA
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with all kind of modulation.
Test results:	Pass

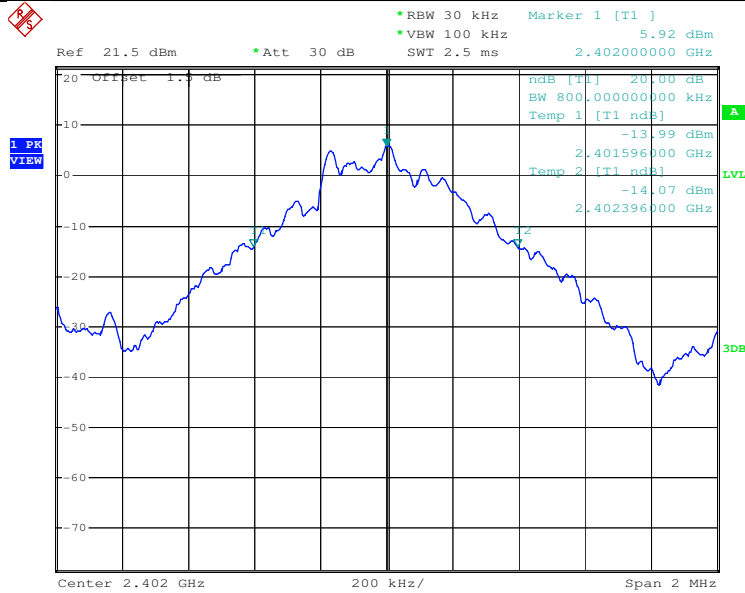
Measurement Data

Test channel	20dB Occupy Bandwidth (KHz)		
	GFSK	Pi/4QPSK	8DPSK
Lowest	800	1212	1208
Middle	800	1220	1212
Highest	804	1216	1212



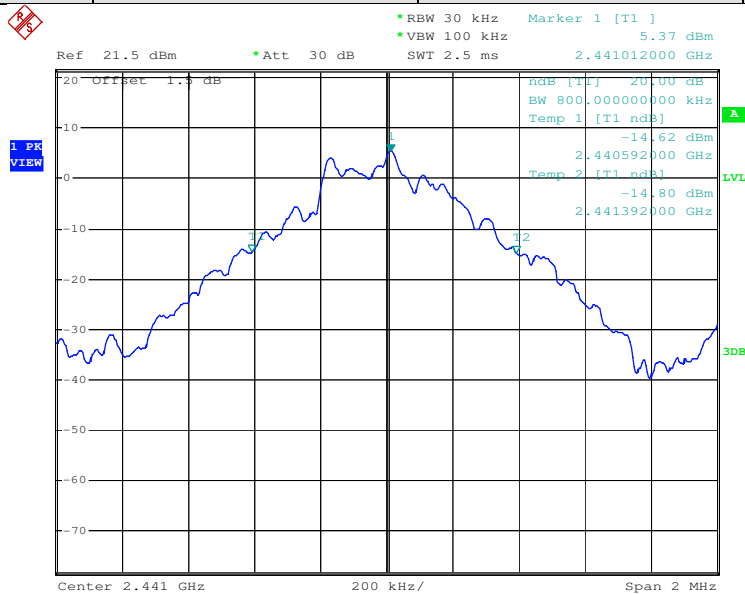
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 21.SEP.2010 08:03:05

Test mode:	GFSK	Test channel:	Middle
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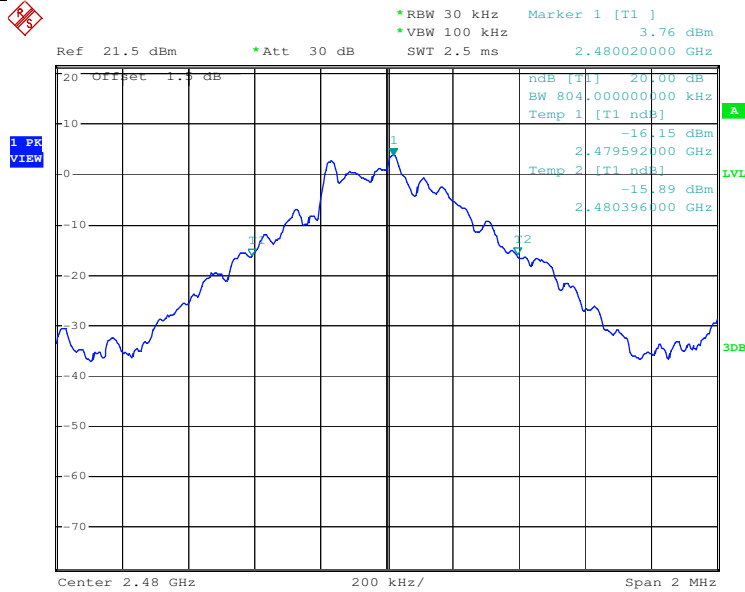


Date: 21.SEP.2010 08:13:22

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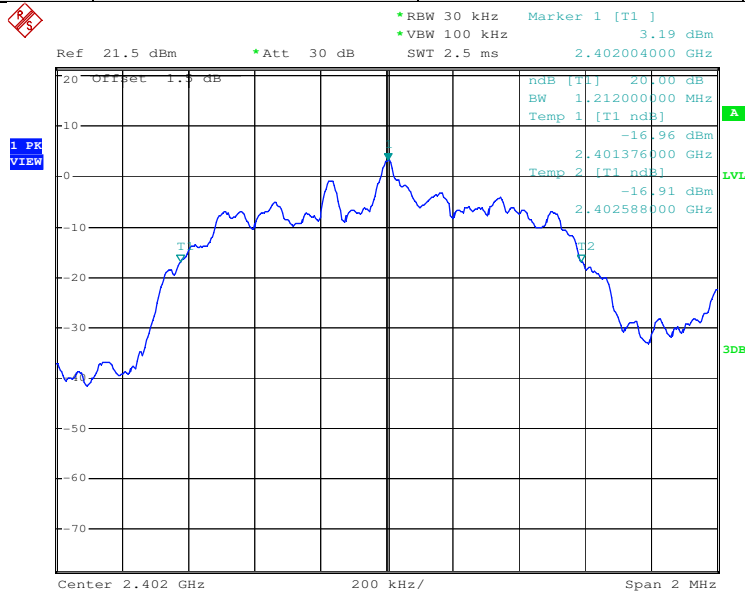


Test mode:	GFSK	Test channel:	Highest
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Date: 21.SEP.2010 08:17:41

Test mode:	Pi/4QPSK	Test channel:	Lowest
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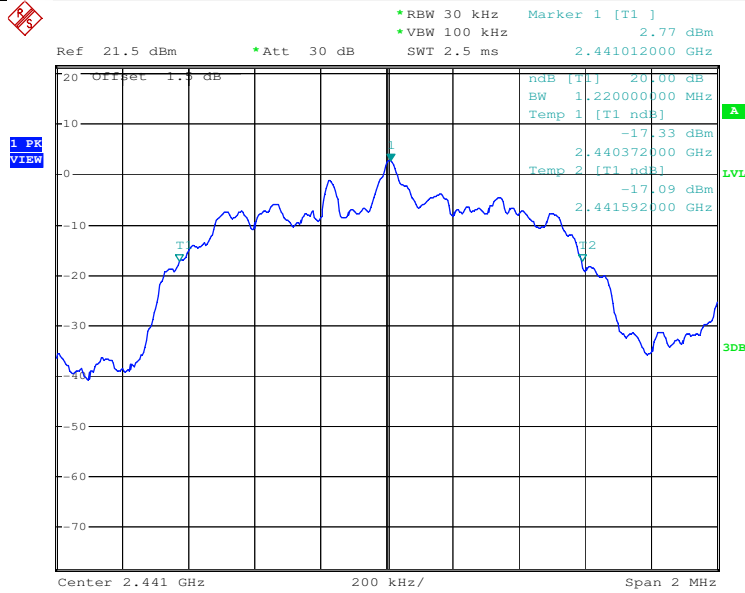


Date: 21.SEP.2010 09:33:34

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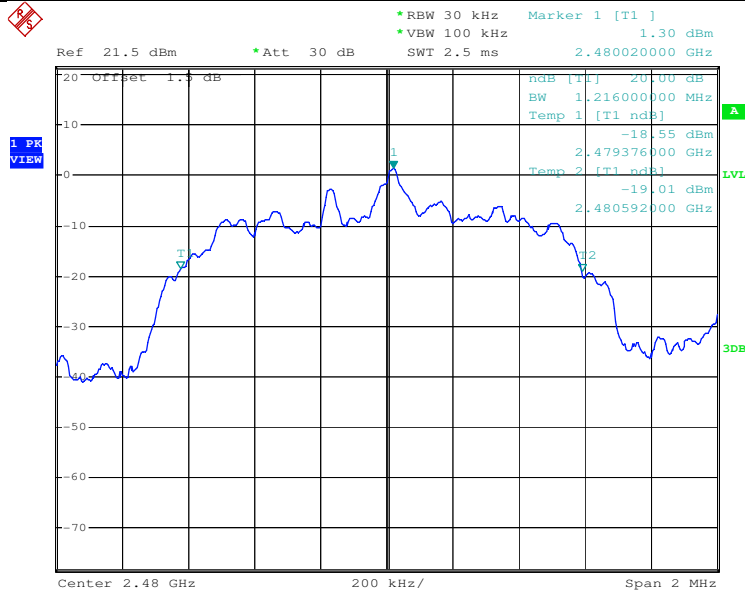


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 21.SEP.2010 09:41:17

Test mode:	Pi/4QPSK	Test channel:	Highest
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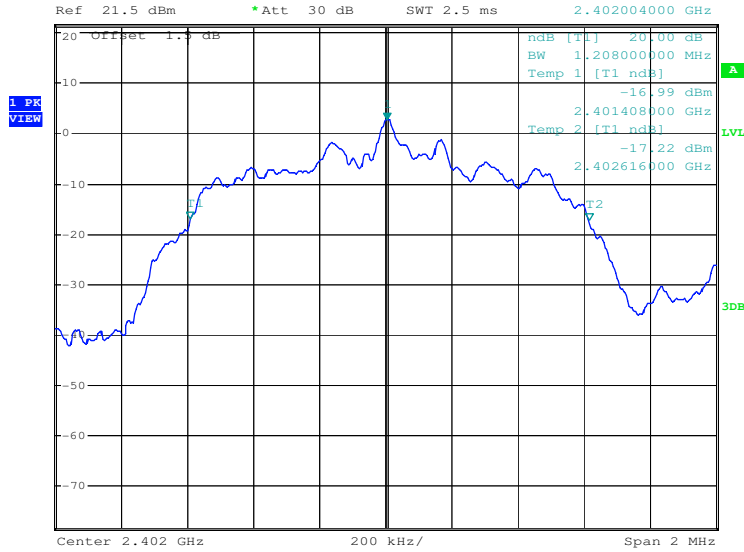


Date: 21.SEP.2010 09:54:41

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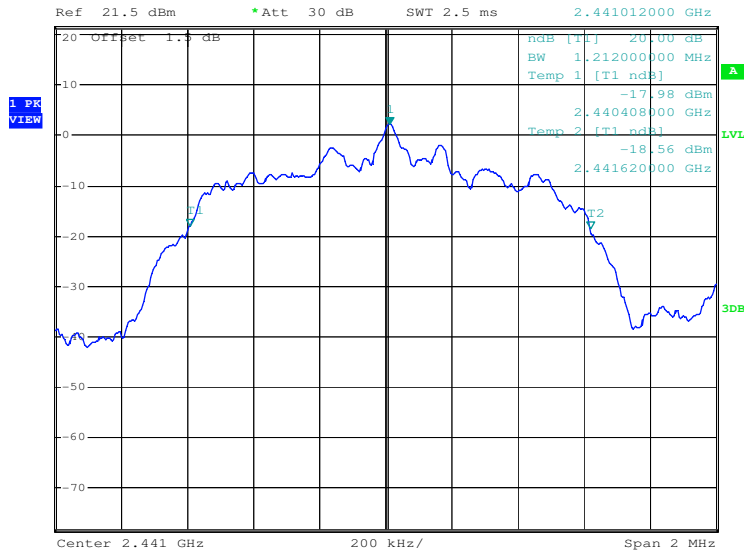


Test mode:	8DPSK	Test channel:	Lowest
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Date: 25.SEP.2010 10:35:44

Test mode:	8DPSK	Test channel:	Middle
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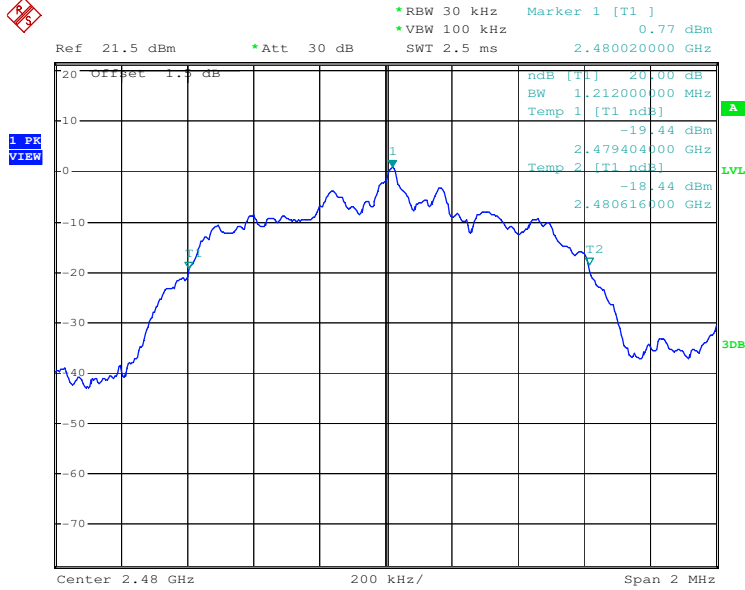


Date: 25.SEP.2010 12:01:41

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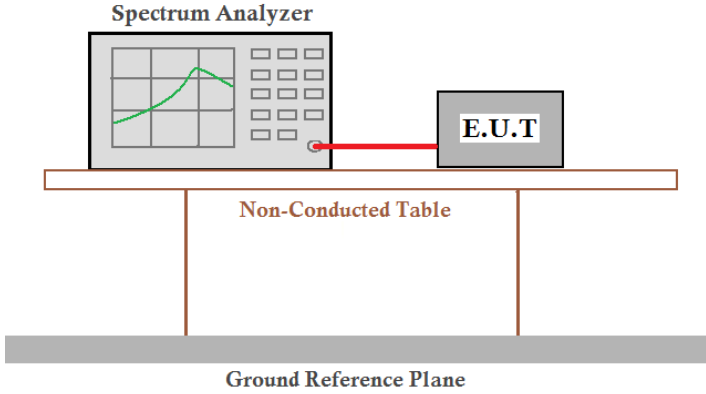
Test mode:	8DPSK	Test channel:	Highest
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Date: 25.SEP.2010 12:04:52

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5.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Test state:	Hopping transmitting with all kind of modulation.
Test setup:	 <p>The diagram shows a Spectrum Analyzer on the left and an E.U.T. (Equipment Under Test) on the right. They are connected by a red cable. Both are placed on a table labeled 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 4.7 for details
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test results:	Pass



Measurement Data

GFSK mode		
Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
1000	813.3	Pass
Pi/4QPSK mode		
Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
1000	813.3	Pass
8DPSK mode		
Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
1000	813.3	Pass

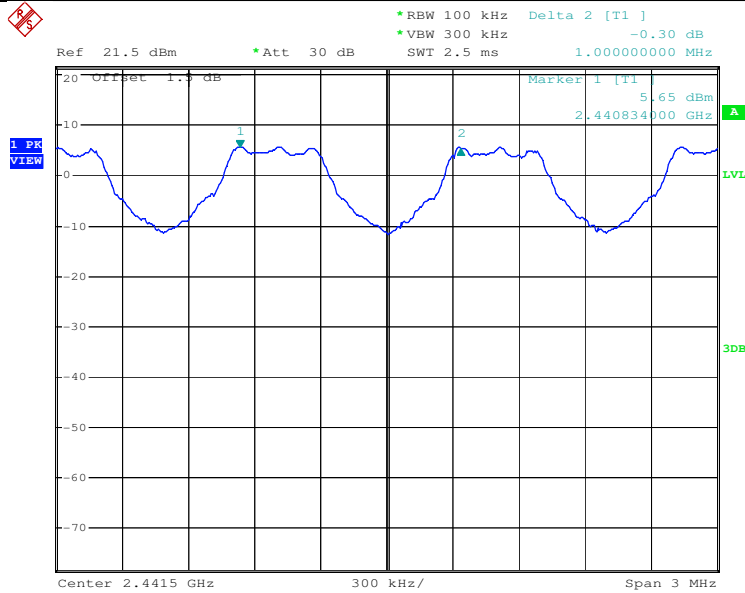
Note: According to section 5.4,

Mode	20dB bandwidth (KHz) (worse case)	Limit (KHz) (Carrier Frequencies Separation)
GFSK	804	536.0
PI/4QPSK	1220	813.3
8DPSK	1212	808.0

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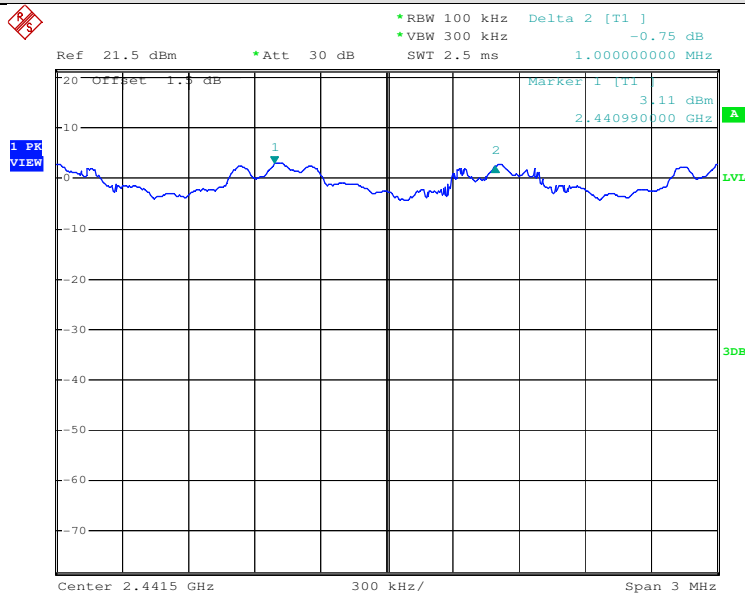
Test plot as follows:

Test mode:	GFSK
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Date: 21.SEP.2010 09:24:16

Test mode:	Pi/4QPSK
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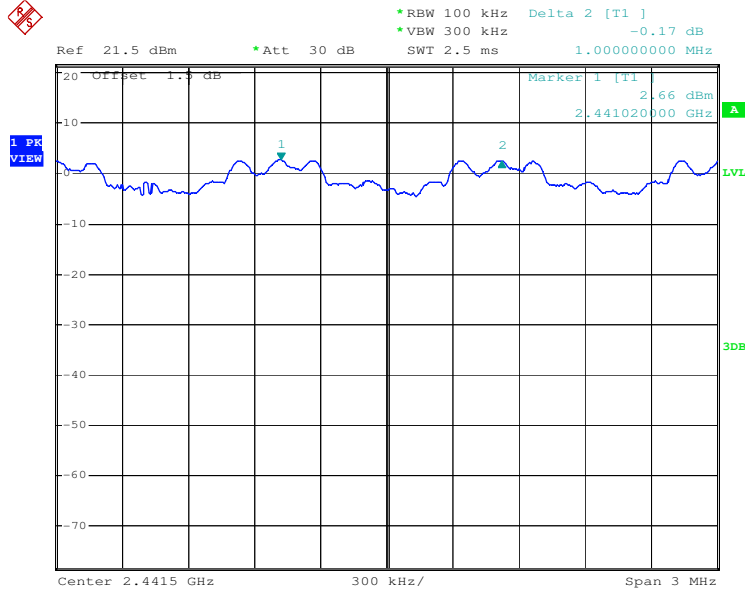


Date: 21.SEP.2010 10:22:37

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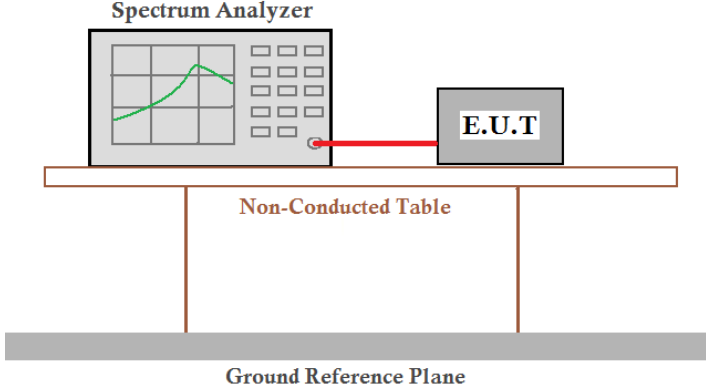
Test mode: 8DPSK



Date: 25.SEP.2010 12:26:06

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5.6 Hopping Channel Number

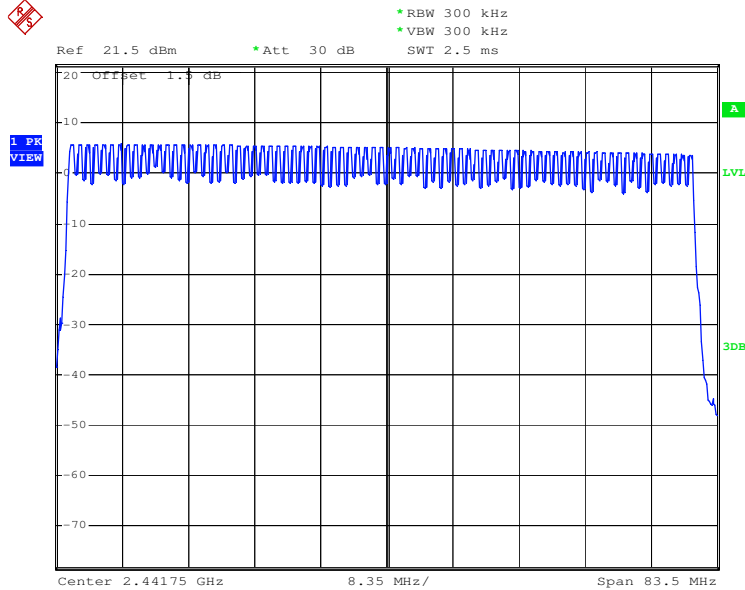
Test Requirement:	FCC Part15 C Section 15.247 (b)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Requirement:	≥75 channels
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Pass

Measurement Data

Mode	Hopping channel	Requirement
GFSK	79	≥75
Pi/4QPSK	79	≥75
8DPSK	79	≥75

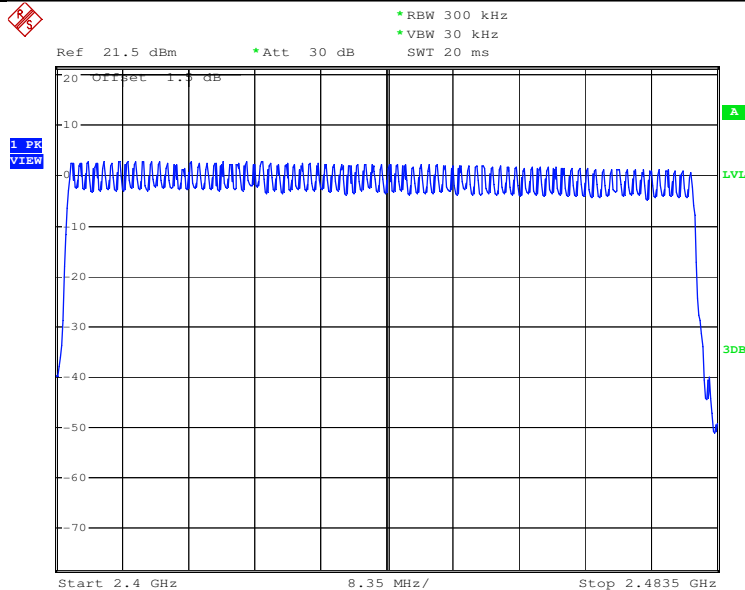
Test plot as follows

Test mode:	GFSK
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Date: 21.SEP.2010 08:41:09

Test mode:	Pi/4QPSK
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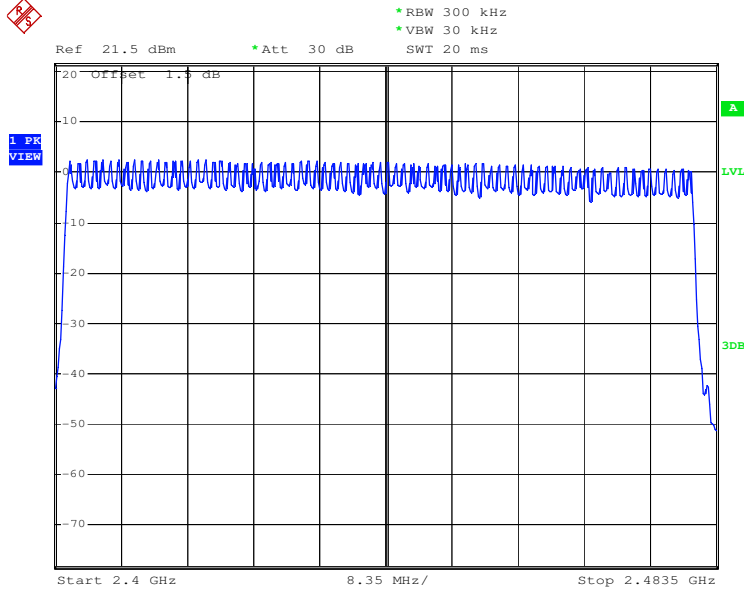


Date: 21.SEP.2010 10:07:57

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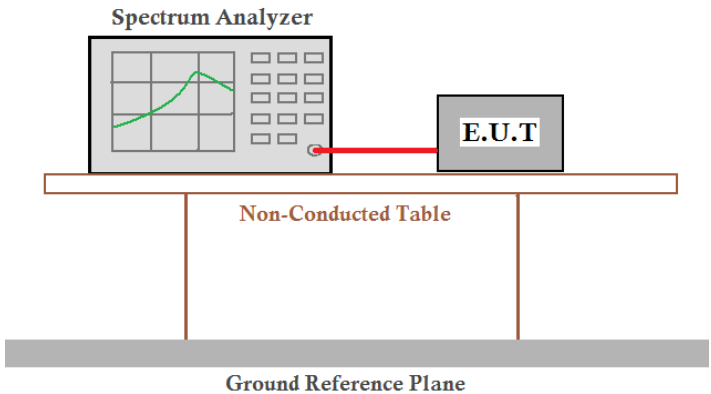
Test mode:	8DPSK
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Date: 25.SEP.2010 12:15:50

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5.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2009 and KDB DA00-705
Limit:	≤ 0.4 Second
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Pass

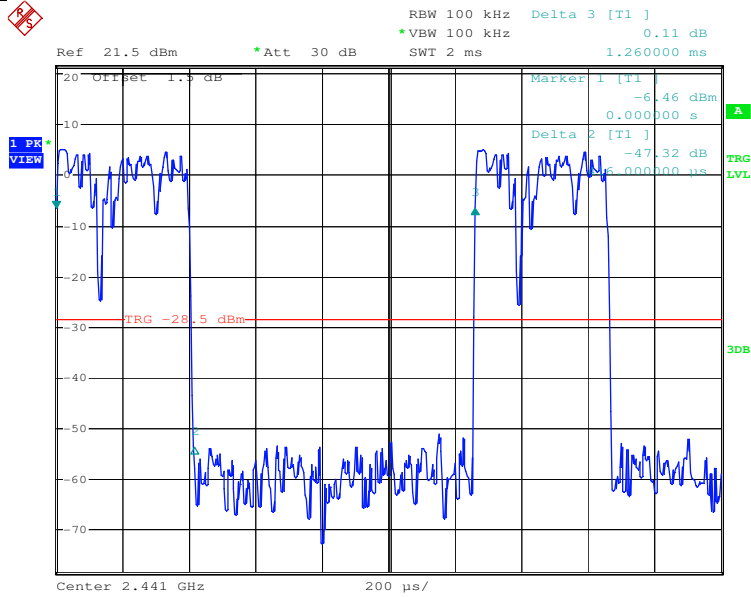
Measurement Data

Mode	Packet	Dwell time (second)	Limit (second)
GFSK	DH1	0.1331	≤0.4
	DH3	0.2681	≤0.4
	DH5	0.3116	≤0.4
Pi/4QPSK	2-DH1	0.1434	≤0.4
	2-DH3	0.2717	≤0.4
	2-DH5	0.3138	≤0.4
8DPSK	3-DH1	0.1382	≤0.4
	3-DH3	0.2691	≤0.4
	3-DH5	0.3138	≤0.4



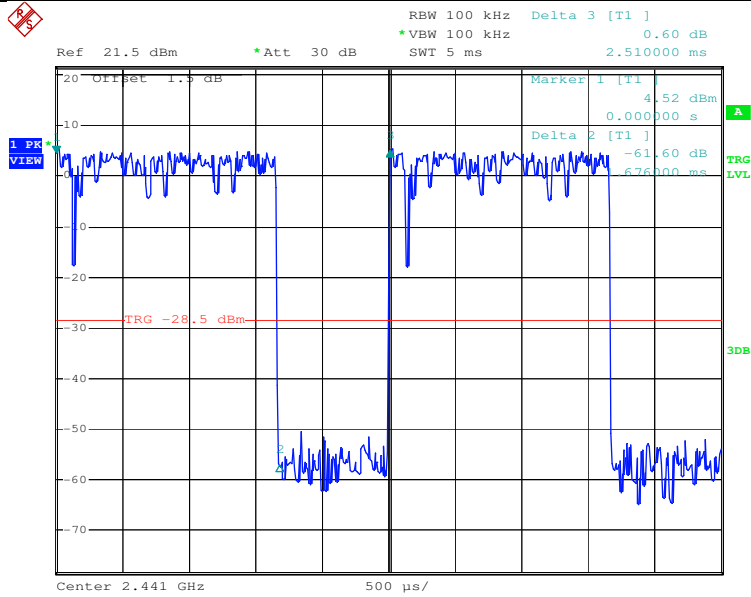
Test plot as follows

Test mode:	GFSK	Test Packet:	DH1
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Date: 27.SEP.2010 16:02:33

Test mode:	GFSK	Test Packet:	DH3
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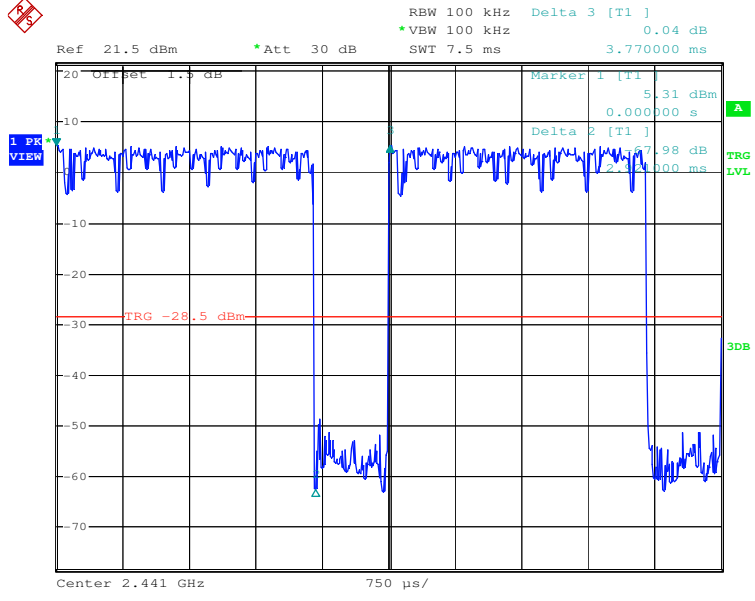


Date: 27.SEP.2010 16:03:58

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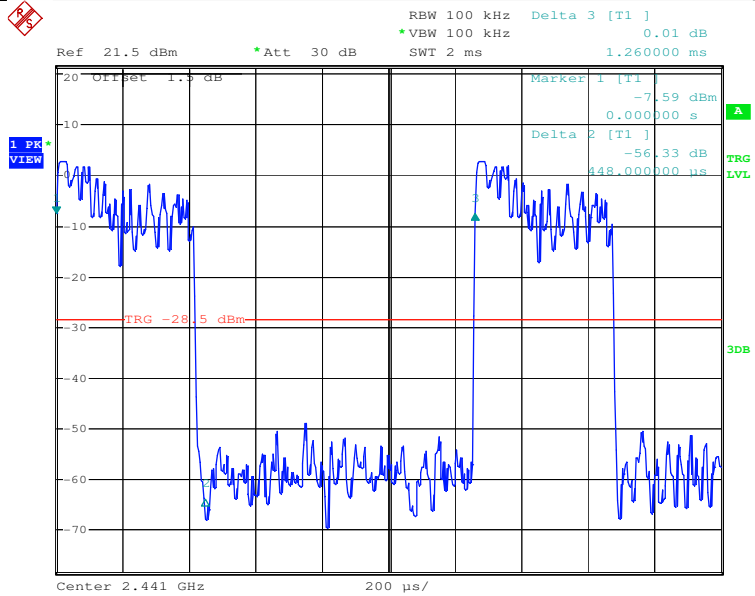


Test mode:	GFSK	Test Packet:	DH5
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Date: 27.SEP.2010 16:05:07

Test mode:	Pi/4QPSK	Test Packet:	2-DH1
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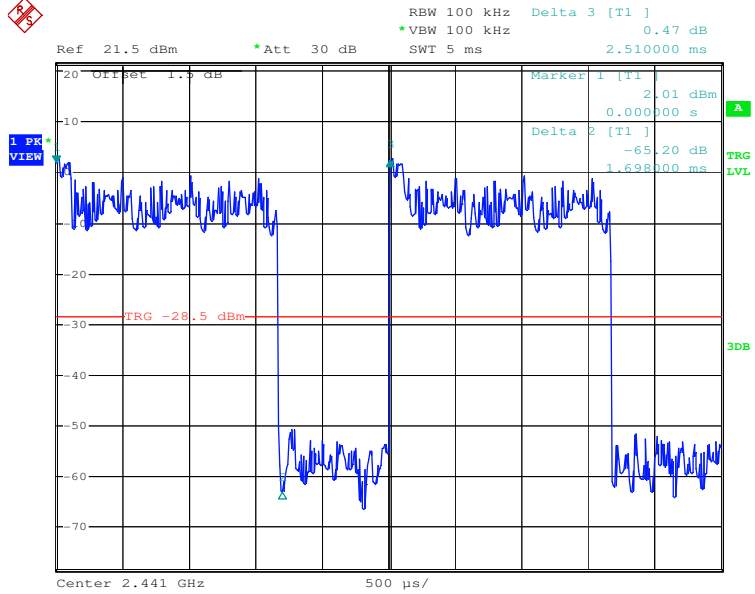


Date: 27.SEP.2010 16:06:13

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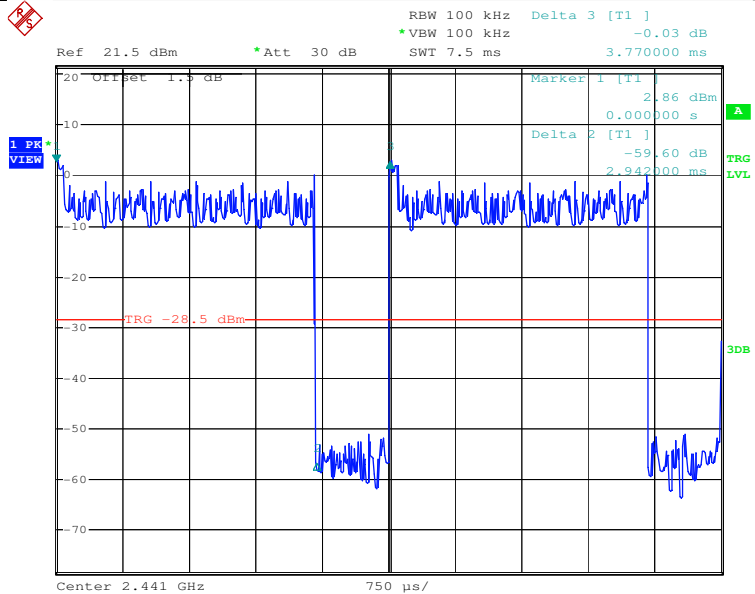


Test mode:	Pi/4QPSK	Test Packet:	2-DH3
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Date: 27.SEP.2010 16:07:14

Test mode:	Pi/4QPSK	Test Packet:	2-DH5
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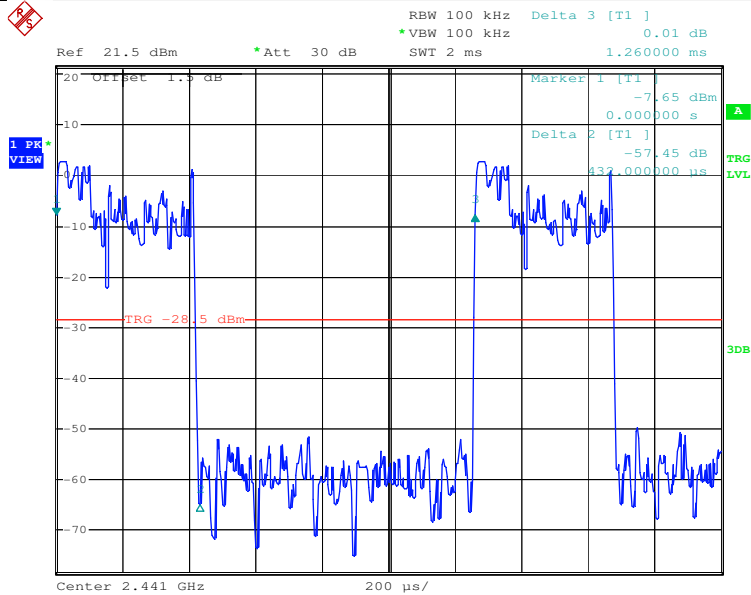


Date: 27.SEP.2010 16:12:03

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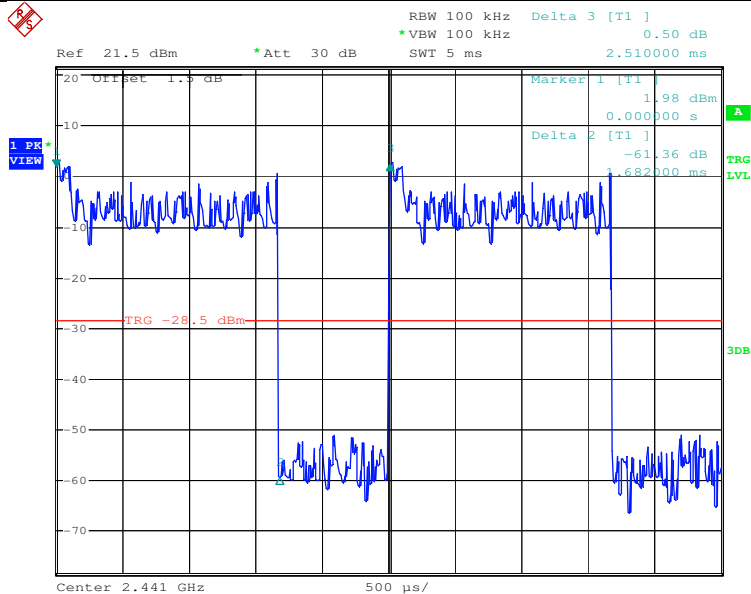


Test mode:	8DPSK	Test Packet:	3-DH1
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Date: 27.SEP.2010 16:10:21

Test mode:	8DPSK	Test Packet:	3-DH3
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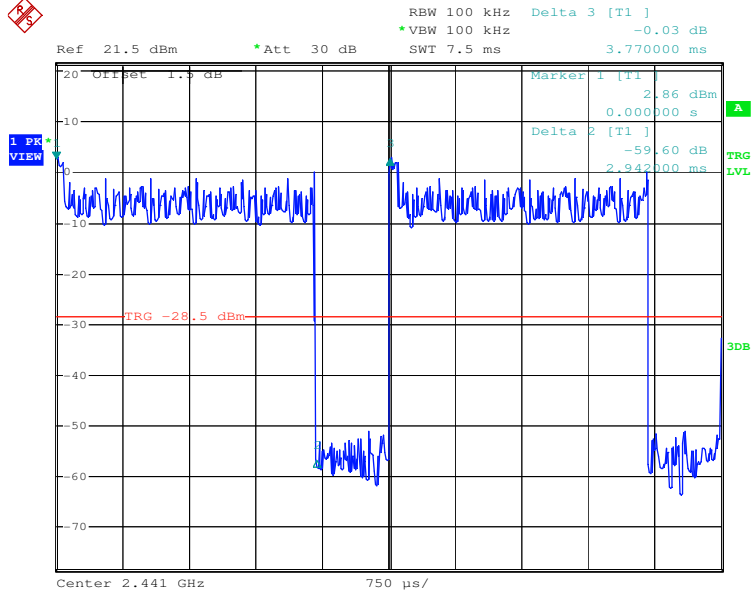


Date: 27.SEP.2010 16:11:12

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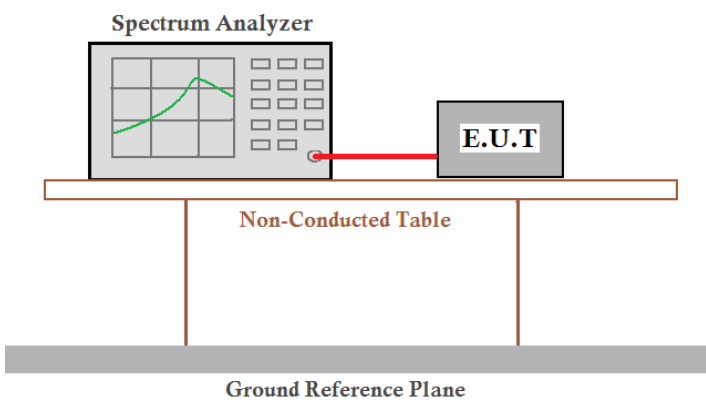
Test mode:	8DPSK	Test Packet:	3-DH5
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Date: 27.SEP.2010 16:12:03

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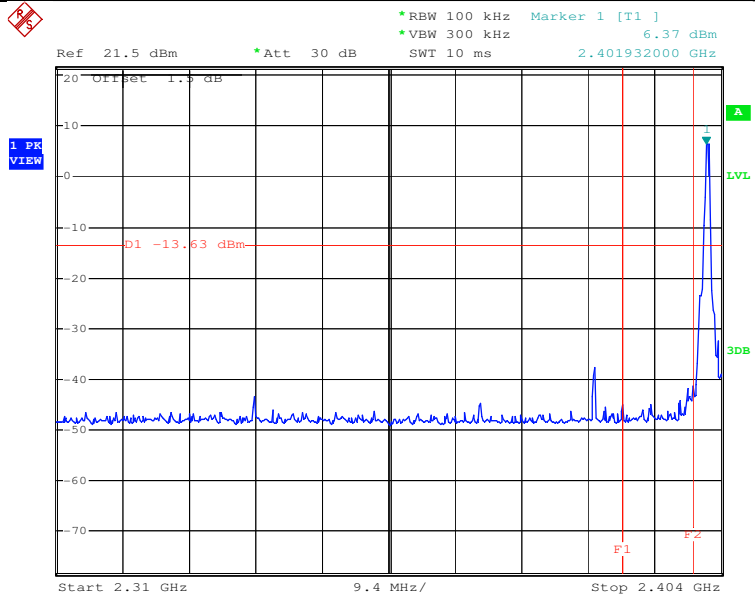
5.8 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 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><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:	Hopping transmitting with all kinds of modulation.
Test results:	Pass



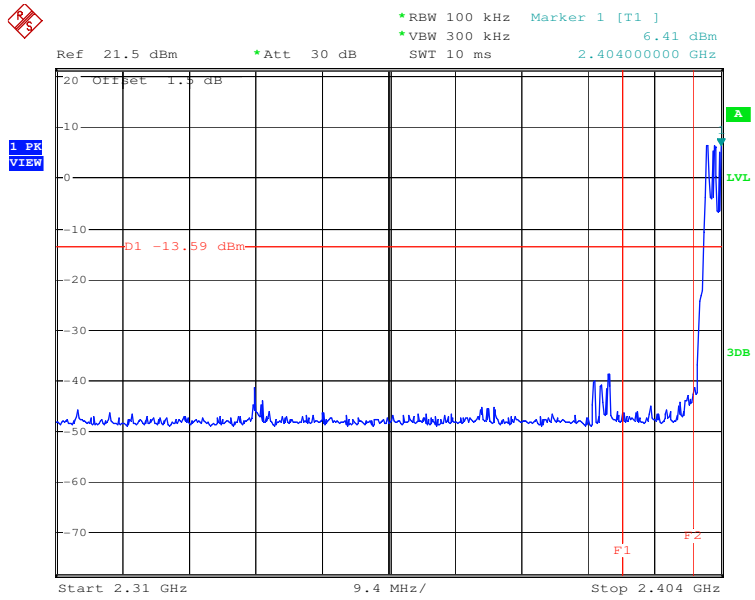
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 21.SEP.2010 08:05:25

F1=2390MHz F2=2400MHz



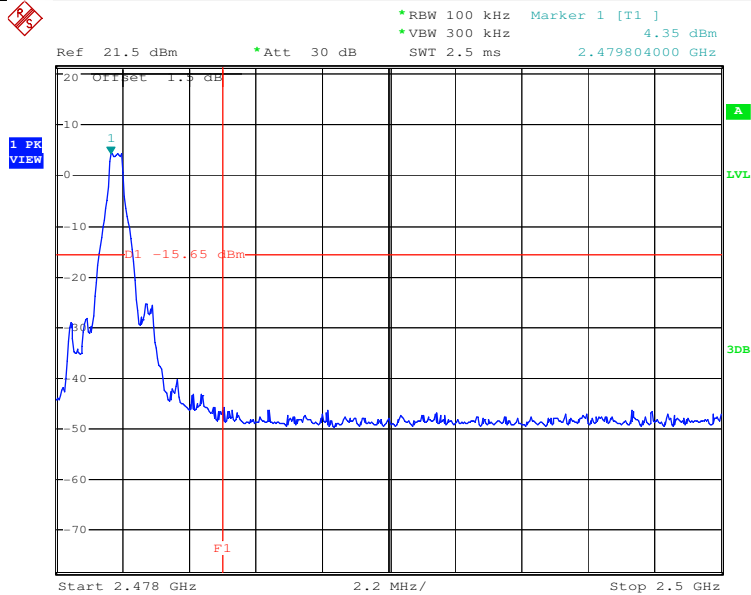
Date: 21.SEP.2010 08:07:40

F1=2390MHz F2=2400MHz

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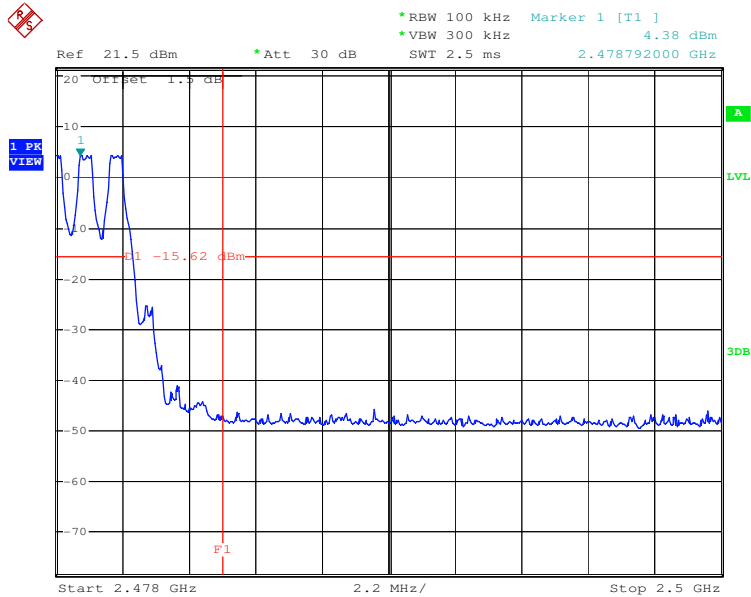


Test mode:	GFSK	Test channel:	Highest
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Date: 21.SEP.2010 08:19:46

F1=2483.5MHz



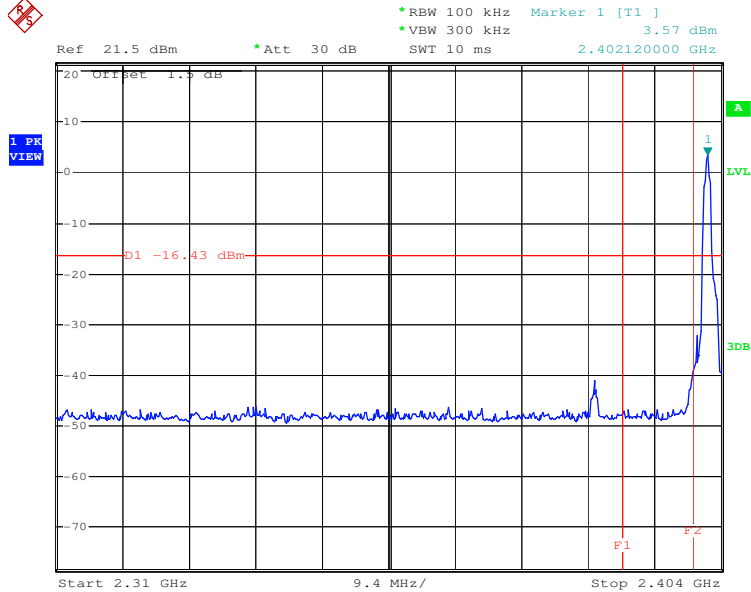
Date: 21.SEP.2010 08:21:56

F1=2483.5MHz

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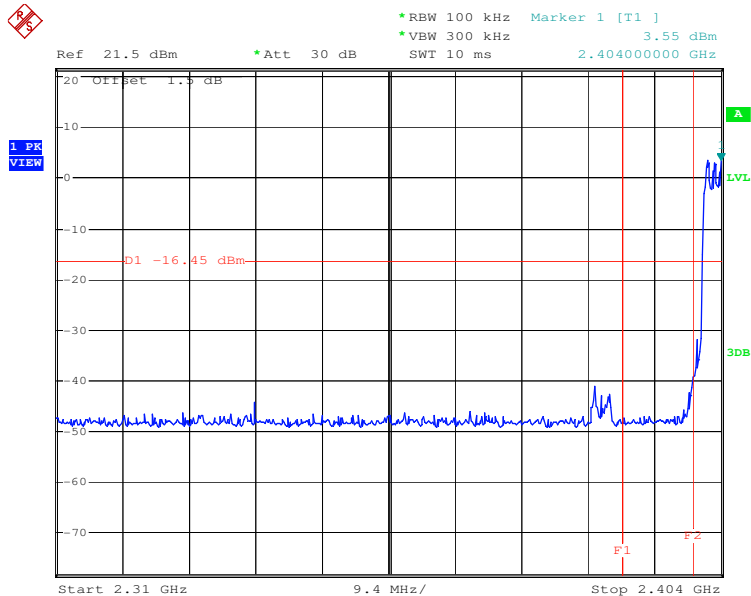


Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 21.SEP.2010 09:35:14

F1=2390MHz F2=2400MHz



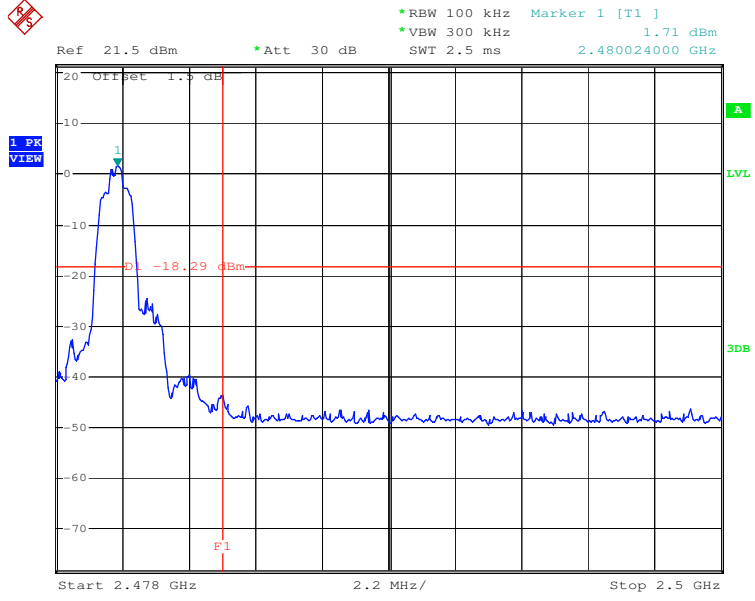
Date: 21.SEP.2010 09:36:41

F1=2390MHz F2=2400MHz

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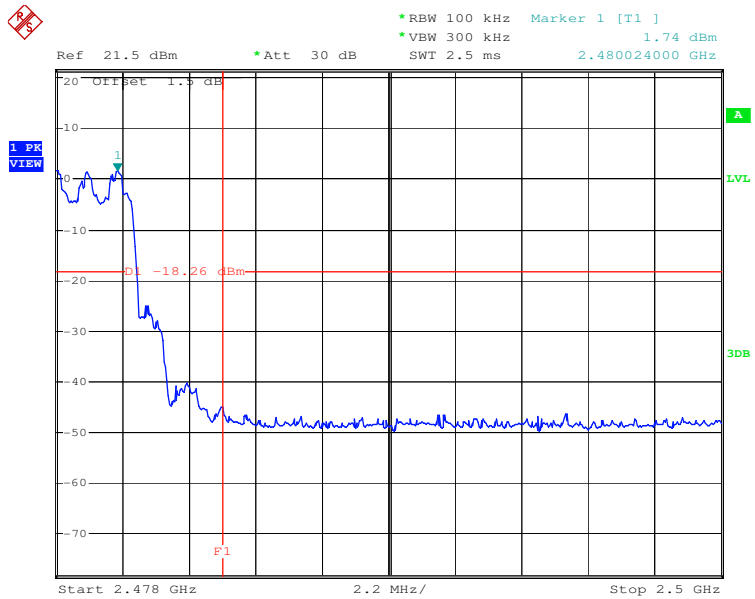


Test mode:	Pi/4QPSK	Test channel:	Highest
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Date: 21.SEP.2010 10:00:58

F1=2483.5MHz



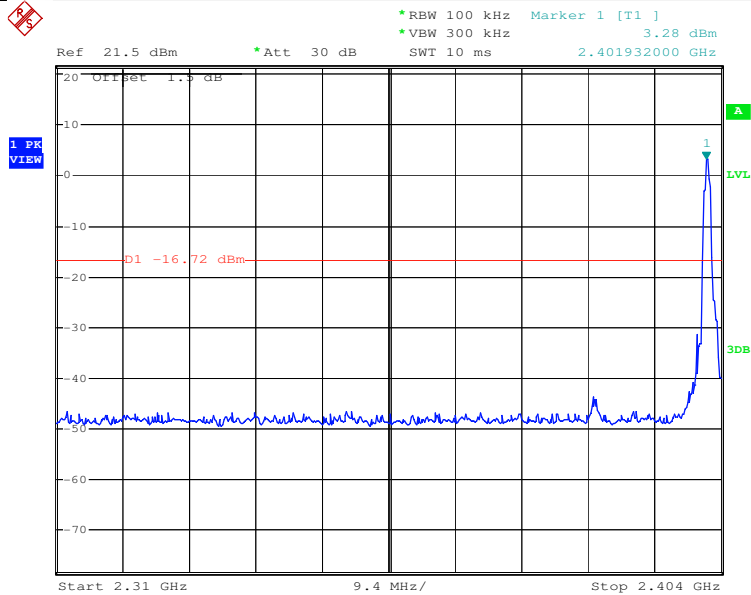
Date: 21.SEP.2010 10:02:33

F1=2483.5MHz

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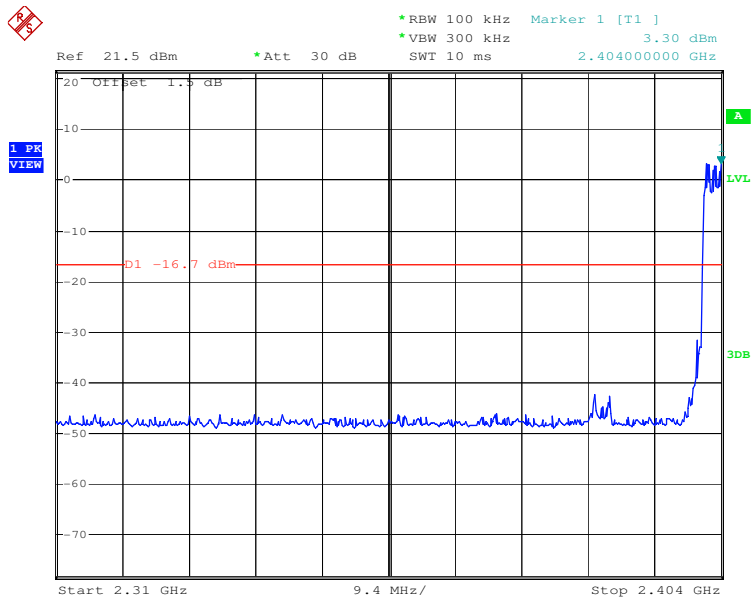


Test mode:	8DPSK	Test channel:	Lowest
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Date: 25.SEP.2010 10:37:15

F1=2390MHz F2=2400MHz



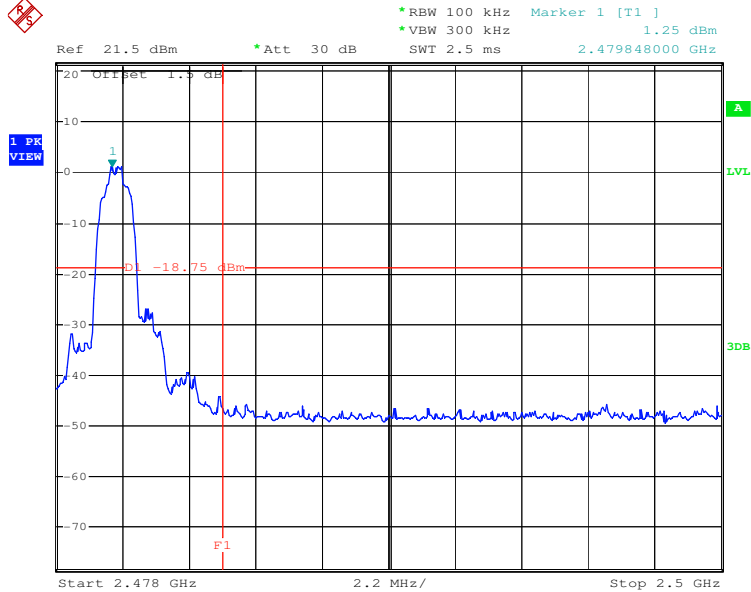
Date: 25.SEP.2010 10:39:18

F1=2390MHz F2=2400MHz

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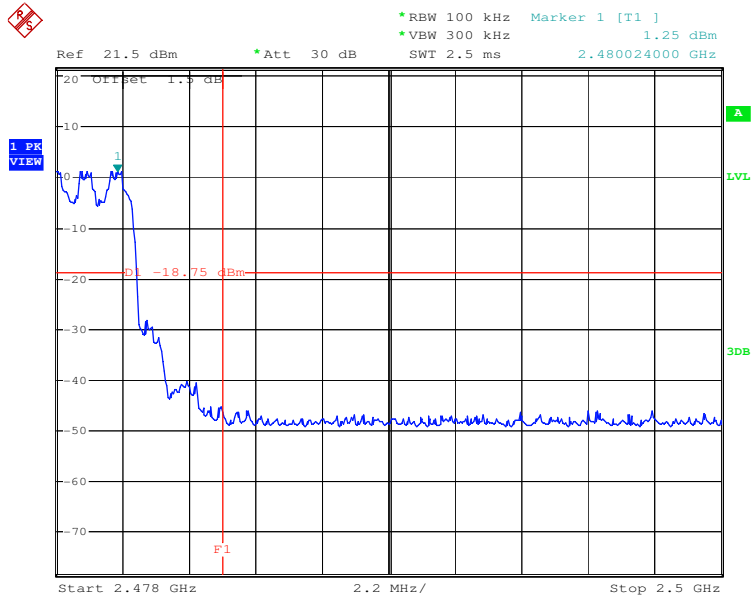


Test mode:	8DPSK	Test channel:	Highest
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Date: 25.SEP.2010 12:08:42

F1=2483.5MHz

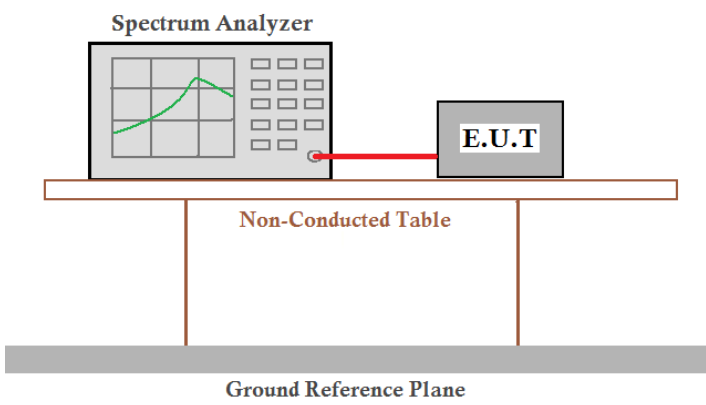


Date: 25.SEP.2010 12:11:53

F1=2483.5MHz

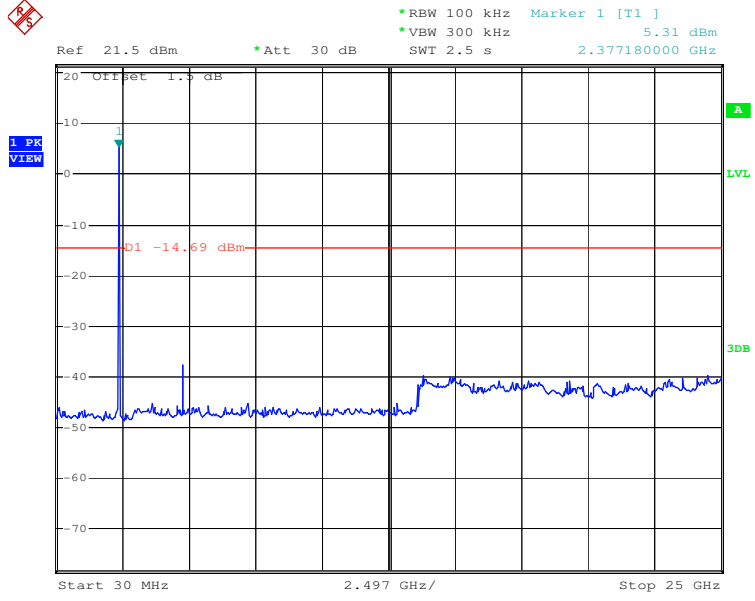
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5.9 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009 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 style="text-align: center;"><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:	Pass

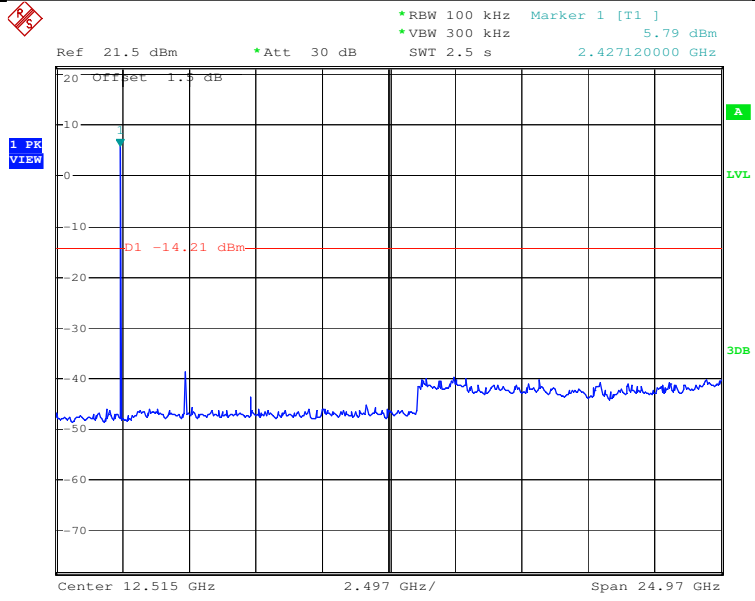


Worse case mode:	GFSK	Test channel:	Lowest
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Date: 21.SEP.2010 08:46:53

Worse case mode:	GFSK	Test channel:	Middle
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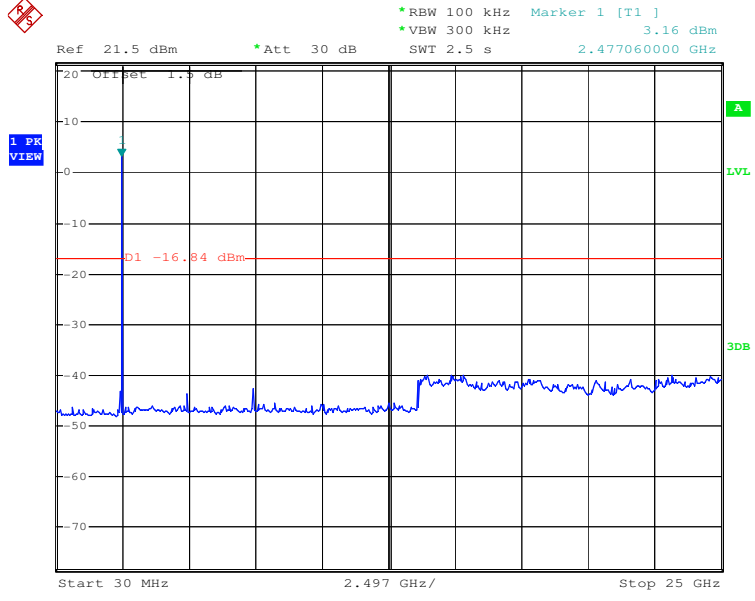


Date: 21.SEP.2010 08:48:37

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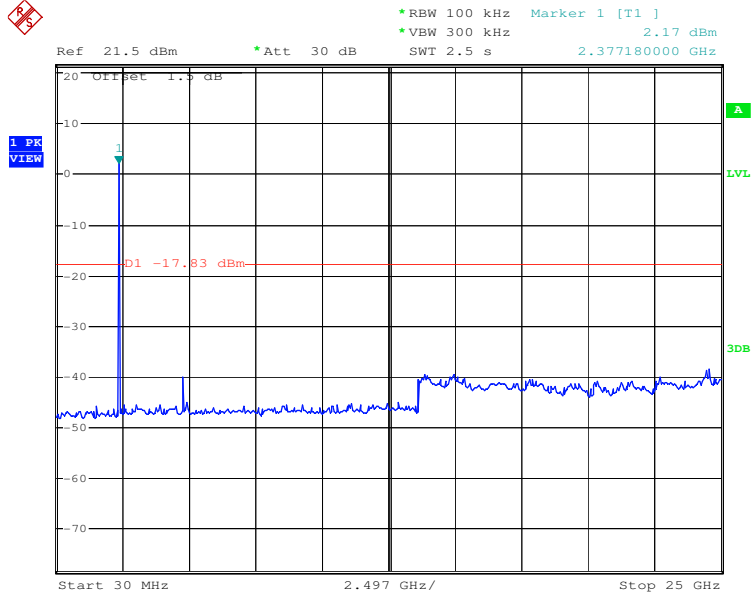


Worse case mode:	GFSK	Test channel:	Highest
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Date: 21.SEP.2010 08:51:18

Worse case mode:	Pi/4QPSK	Test channel:	Lowest
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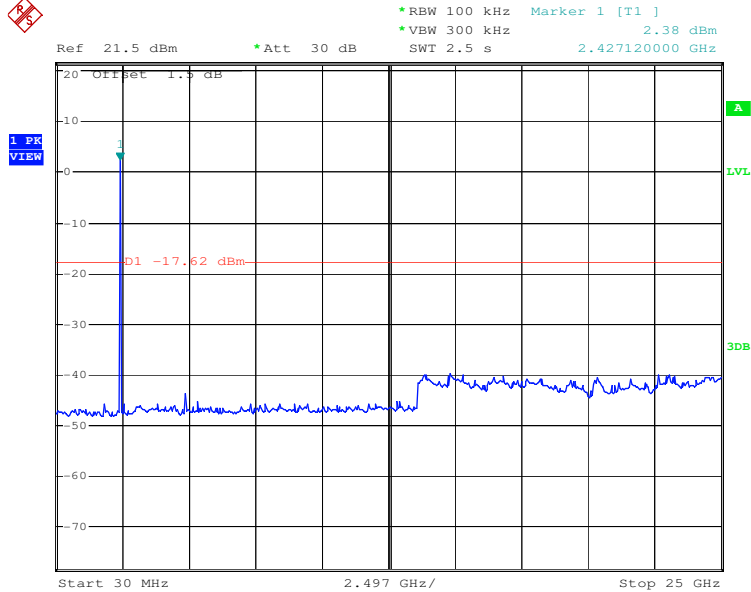


Date: 21.SEP.2010 10:12:38

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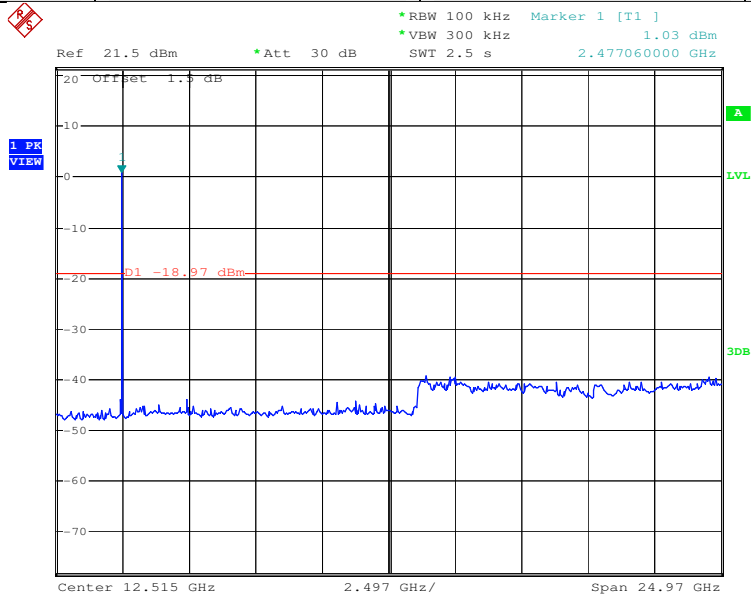


Worse case mode:	Pi/4QPSK	Test channel:	Middle
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Date: 21.SEP.2010 10:15:17

Worse case mode:	Pi/4QPSK	Test channel:	Highest
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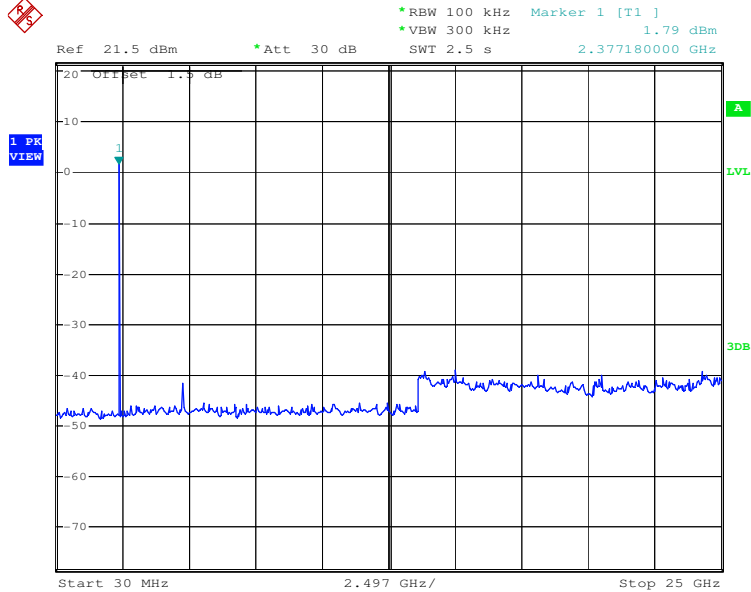


Date: 21.SEP.2010 10:20:21

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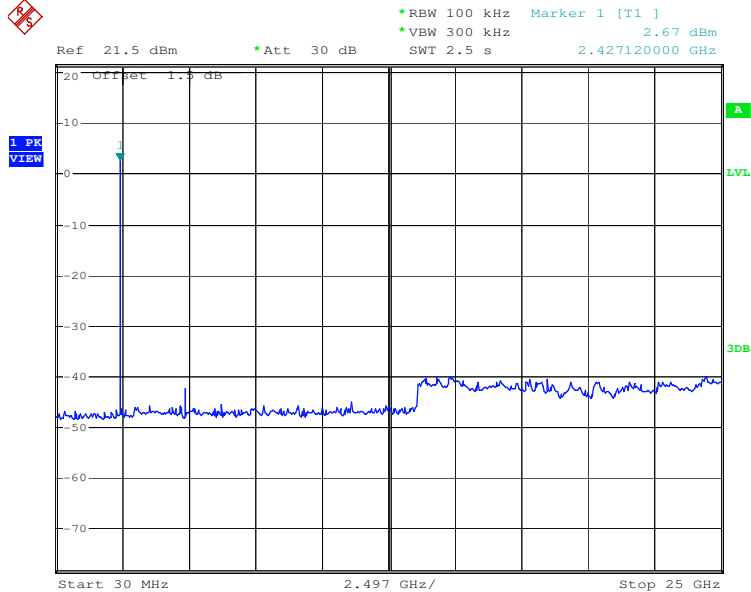


Worse case mode:	8DPSK	Test channel:	Lowest
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Date: 25.SEP.2010 12:18:09

Worse case mode:	8DPSK	Test channel:	Middle
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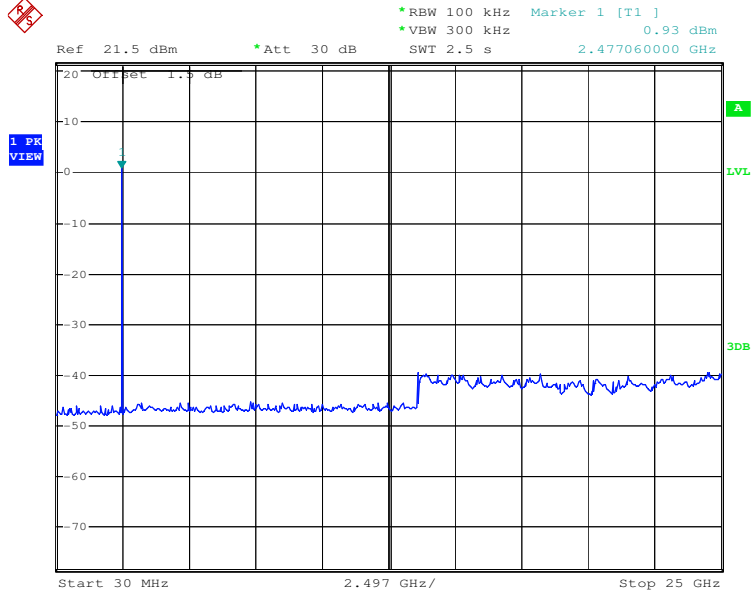


Date: 25.SEP.2010 12:19:56

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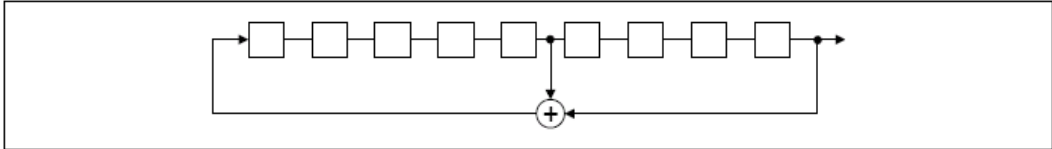
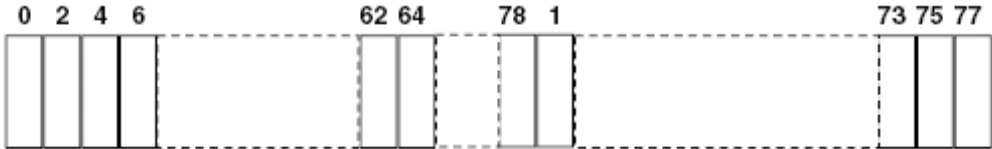
Worse case mode:	8DPSK	Test channel:	Highest
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Date: 25.SEP.2010 12:30:40

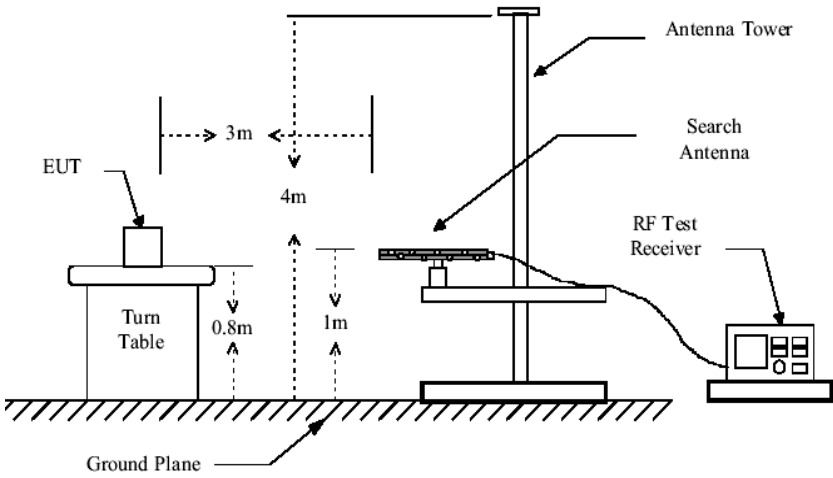
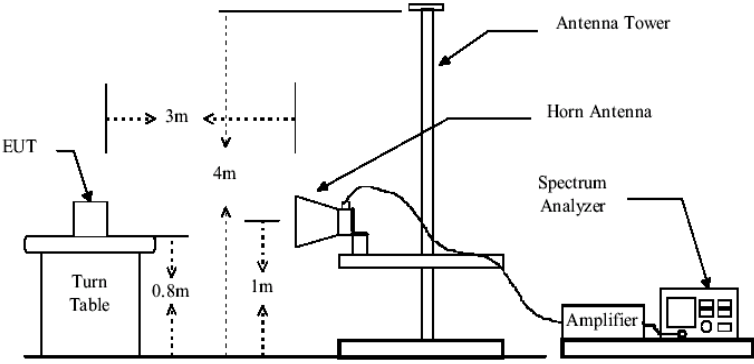
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5.10 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:
<p><i>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.</i></p> <p><i>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.</i></p>	
EUT Pseudorandom Frequency Hopping Sequence	
<p><i>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.</i></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) <div style="text-align: center;">  </div> <p style="text-align: center;"><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p> <p><i>An example of Pseudorandom Frequency Hopping Sequence as follow:</i></p> <div style="text-align: center;">  </div> <p><i>Each frequency used equally on the average by each transmitter.</i></p> <p><i>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.</i></p>	

5.11 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205			
Test Method:	ANSI C63.10: 2009			
Test Frequency Range:	30MHz to 25GHz			
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)			
Receiver setup:	Frequency	Detector	RBW	VBW
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
		Peak	1MHz	10Hz
Remark	Quasi-peak Value			
	Peak Value			
	Average Value			
Limit:	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
Test Procedure:	a. 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.			
	b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.			
	c. 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.			
	d. 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.			
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.			
	f. 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.			
	g. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.			
Test Instruments:	Refer to section 4.7 for details			

<p>Test mode:</p>	<p>Non-hopping transmitting with modulation. 1. Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode. 2. Test the EUT in Transmitting mode.</p>
<p>Test results:</p>	<p>Passed</p>
<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 

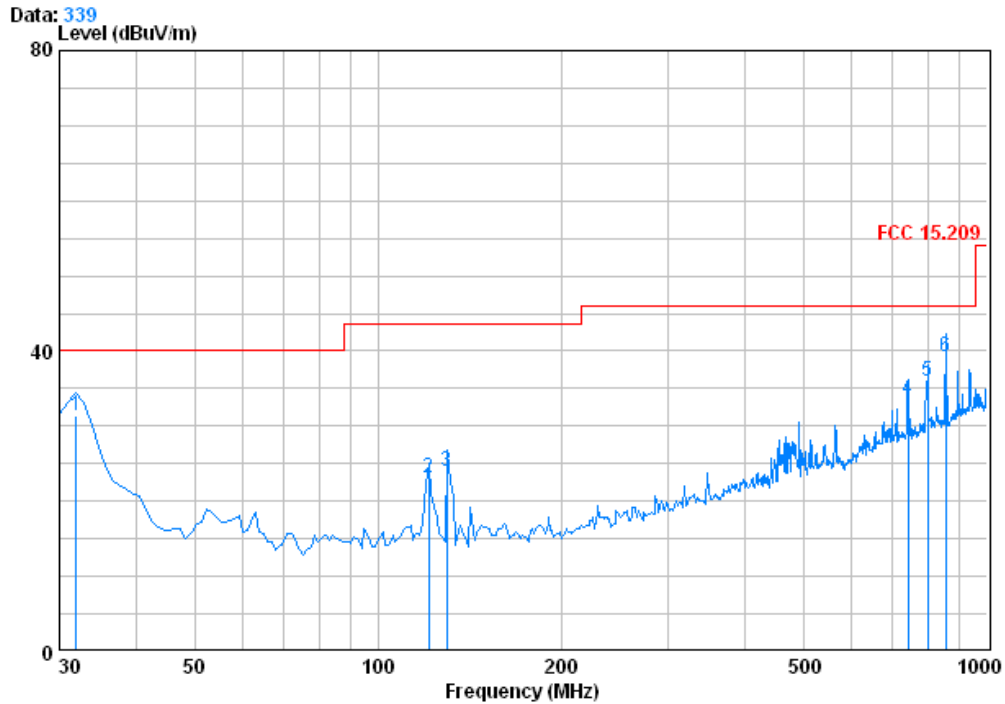
Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

5.11.1 Radiated emission below 1GHz

Vertical

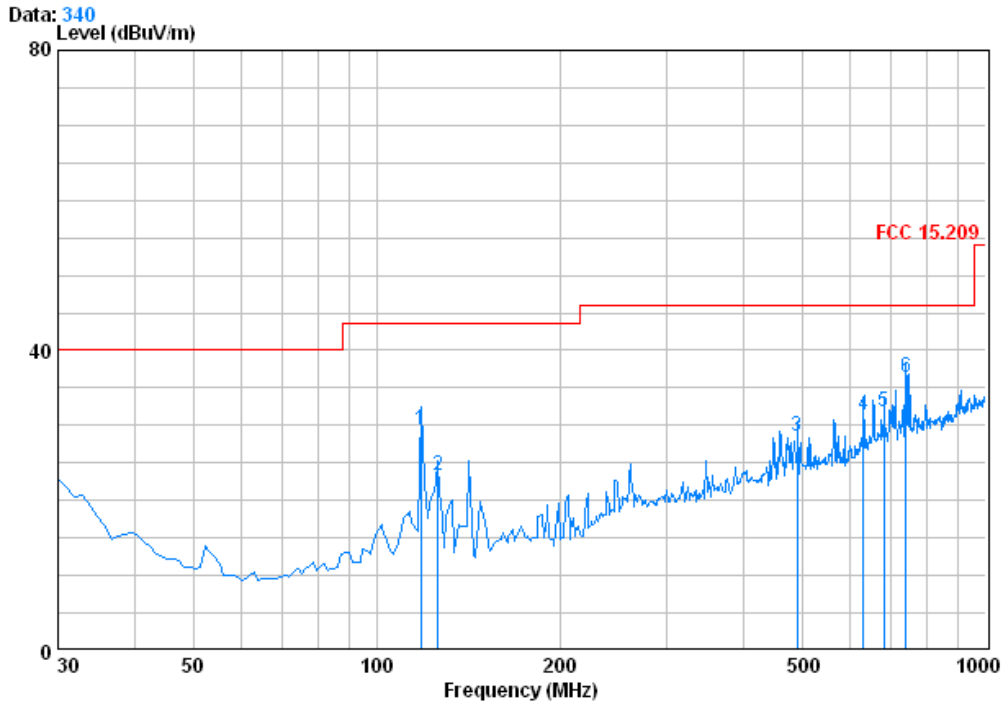


	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.940	0.60	14.43	28.17	44.50	31.36	40.00	-8.64	QP
2	121.180	1.26	7.87	27.67	41.63	23.08	43.50	-20.42	QP
3	129.910	1.28	7.70	27.61	42.53	23.90	43.50	-19.60	QP
4	741.980	3.03	21.67	27.13	36.08	33.65	46.00	-12.35	QP
5	798.240	3.20	22.09	26.95	37.72	36.06	46.00	-9.94	QP
6	855.470	3.42	22.55	26.65	39.90	39.22	46.00	-6.78	QP

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Horizontal



	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	Factor	dBuV	dBuV/m	dBuV/m	dB	
1	118.270	1.25	8.02	27.70	47.90	29.46	43.50	-14.04	QP
2	126.030	1.27	7.77	27.63	41.88	23.28	43.50	-20.22	QP
3	490.750	2.57	17.80	27.68	35.92	28.60	46.00	-17.40	QP
4	629.460	2.76	20.52	27.51	35.71	31.48	46.00	-14.52	QP
5	680.870	2.86	21.46	27.34	34.76	31.75	46.00	-14.25	QP
6	739.070	3.03	21.66	27.14	38.85	36.39	46.00	-9.61	QP

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5.11.2 Transmitter emission above 1GHz

Worse case mode:		GFSK		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4804	9.36	34.04	41.53	55.36	57.23	74.00	-16.77	Vertical		
7206	13.38	36.33	40.98	49.30	58.03	74.00	-15.97	Vertical		
9608	13.39	36.99	37.56	46.15	58.97	74.00	-15.03	Vertical		
12010	16.45	38.80	39.09	46.00	62.16	74.00	-11.84	Vertical		
14412	17.44	39.40	44.77	48.00	60.07	74.00	-13.93	Vertical		
4804	9.36	34.04	41.53	58.00	59.87	74.00	-14.13	Horizontal		
7206	13.38	36.33	40.98	51.32	60.05	74.00	-13.95	Horizontal		
9608	13.39	36.99	37.56	45.43	58.25	74.00	-15.75	Horizontal		
12010	16.45	38.80	39.09	45.18	61.34	74.00	-12.66	Horizontal		
14412	17.44	39.40	44.77	48.50	60.57	74.00	-13.43	Horizontal		

Worse case mode:		GFSK		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4804	9.36	34.04	41.53	44.75	46.62	54.00	-7.38	Vertical		
7206	13.38	36.33	40.98	37.24	45.97	54.00	-8.03	Vertical		
9608	13.39	36.99	37.56	33.26	46.08	54.00	-7.92	Vertical		
12010	16.45	38.80	39.09	29.46	45.62	54.00	-8.38	Vertical		
14412	17.44	39.40	44.77	33.90	45.97	54.00	-8.03	Vertical		
4804	9.36	34.04	41.53	43.81	45.68	54.00	-8.32	Horizontal		
7206	13.38	36.33	40.98	37.89	46.62	54.00	-7.38	Horizontal		
9608	13.39	36.99	37.56	34.00	46.82	54.00	-7.18	Horizontal		
12010	16.45	38.80	39.09	30.60	46.76	54.00	-7.24	Horizontal		
14412	17.44	39.40	44.77	34.20	46.27	54.00	-7.73	Horizontal		

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Worse case mode:		GFSK		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4882	10.57	34.02	40.33	54.99	59.25	74.00	-14.75	Vertical		
7323	12.91	36.10	40.40	50.00	58.61	74.00	-15.39	Vertical		
9764	13.89	37.10	37.94	46.59	59.64	74.00	-14.36	Vertical		
12205	17.95	38.93	39.30	45.58	63.16	74.00	-10.84	Vertical		
14646	17.18	39.63	45.96	48.36	59.21	74.00	-14.79	Vertical		
4882	10.57	34.02	40.33	56.99	61.25	74.00	-12.75	Horizontal		
7323	12.91	36.10	40.40	53.00	61.61	74.00	-12.39	Horizontal		
9764	13.89	37.10	37.94	46.22	59.27	74.00	-14.73	Horizontal		
12205	17.95	38.93	39.30	45.84	63.42	74.00	-10.58	Horizontal		
14646	17.18	39.63	45.96	46.30	57.15	74.00	-16.85	Horizontal		

Worse case mode:		GFSK		Test channel:		Middle		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4882	10.57	34.02	40.33	42.74	47.00	54.00	-7.00	Vertical		
7323	12.91	36.10	40.40	38.56	47.17	54.00	-6.83	Vertical		
9764	13.89	37.10	37.94	34.00	47.05	54.00	-6.95	Vertical		
12205	17.95	38.93	39.30	29.58	47.16	54.00	-6.84	Vertical		
14646	17.18	39.63	45.96	34.33	45.18	54.00	-8.82	Vertical		
4882	10.57	34.02	40.33	42.49	46.75	54.00	-7.25	Horizontal		
7323	12.91	36.10	40.40	38.00	46.61	54.00	-7.39	Horizontal		
9764	13.89	37.10	37.94	33.02	46.07	54.00	-7.93	Horizontal		
12205	17.95	38.93	39.30	29.99	47.57	54.00	-6.43	Horizontal		
14646	17.18	39.63	45.96	35.67	46.52	54.00	-7.48	Horizontal		

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Worse case mode:		GFSK		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4960	10.43	34.01	41.03	56.36	59.77	74.00	-14.23	Vertical		
7440	12.72	35.91	40.01	48.36	56.98	74.00	-17.02	Vertical		
9920	14.24	37.23	37.78	47.60	61.29	74.00	-12.71	Vertical		
12400	17.55	39.04	39.48	45.77	62.88	74.00	-11.12	Vertical		
14880	16.69	39.80	46.61	48.68	58.56	74.00	-15.44	Vertical		
4960	10.43	34.01	41.03	57.98	61.39	74.00	-12.61	Horizontal		
7440	12.72	35.91	40.01	53.00	61.62	74.00	-12.38	Horizontal		
9920	14.24	37.23	37.78	46.99	60.68	74.00	-13.32	Horizontal		
12400	17.55	39.04	39.48	44.99	62.10	74.00	-11.90	Horizontal		
14880	16.69	39.80	46.61	48.91	58.79	74.00	-15.21	Horizontal		

Worse case mode:		GFSK		Test channel:		Highest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna polarization		
4960	10.43	34.01	41.03	42.68	46.09	54.00	-7.91	Vertical		
7440	12.72	35.91	40.01	38.69	47.31	54.00	-6.69	Vertical		
9920	14.24	37.23	37.78	31.01	44.70	54.00	-9.30	Vertical		
12400	17.55	39.04	39.48	29.99	47.10	54.00	-6.90	Vertical		
14880	16.69	39.80	46.61	33.98	43.86	54.00	-10.14	Vertical		
4960	10.43	34.01	41.03	43.90	47.31	54.00	-6.69	Horizontal		
7440	12.72	35.91	40.01	38.02	46.64	54.00	-7.36	Horizontal		
9920	14.24	37.23	37.78	33.27	46.96	54.00	-7.04	Horizontal		
12400	17.55	39.04	39.48	28.64	45.75	54.00	-8.25	Horizontal		
14880	16.69	39.80	46.61	36.01	45.89	54.00	-8.11	Horizontal		

Remark: The disturbance above 15GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

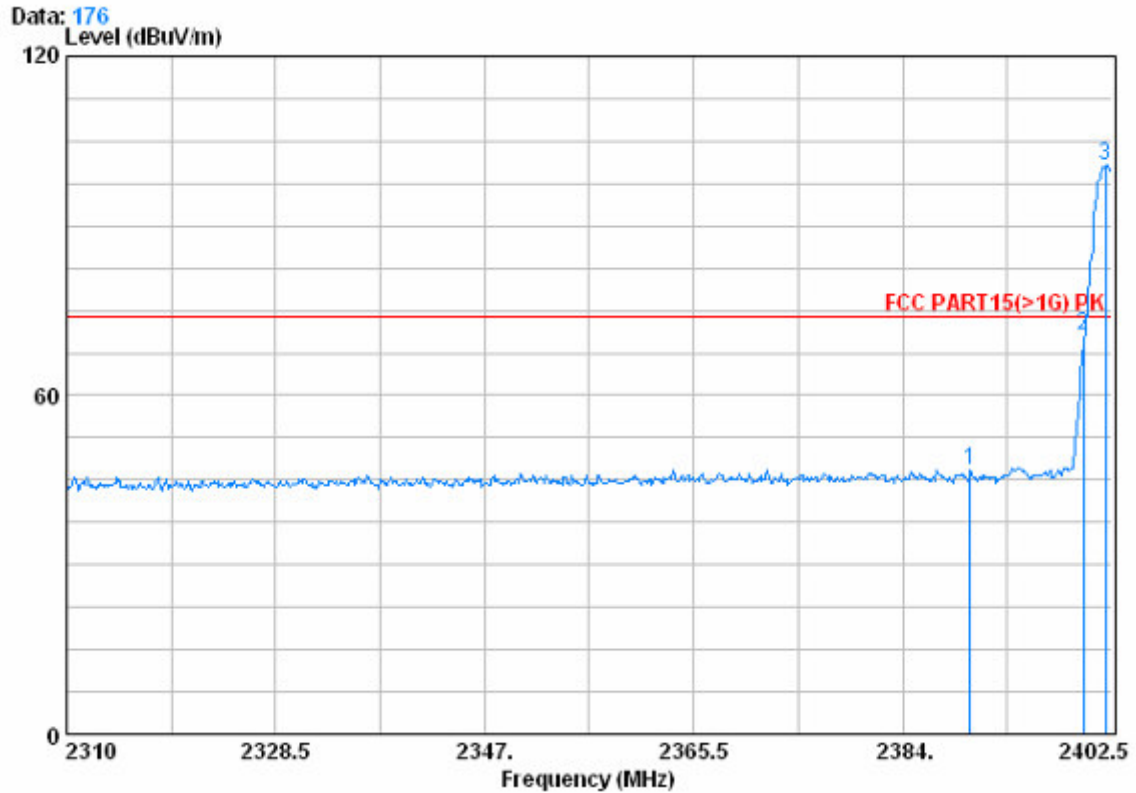
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5.11.3 Band edge (Radiated Emission)

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
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Vertical:

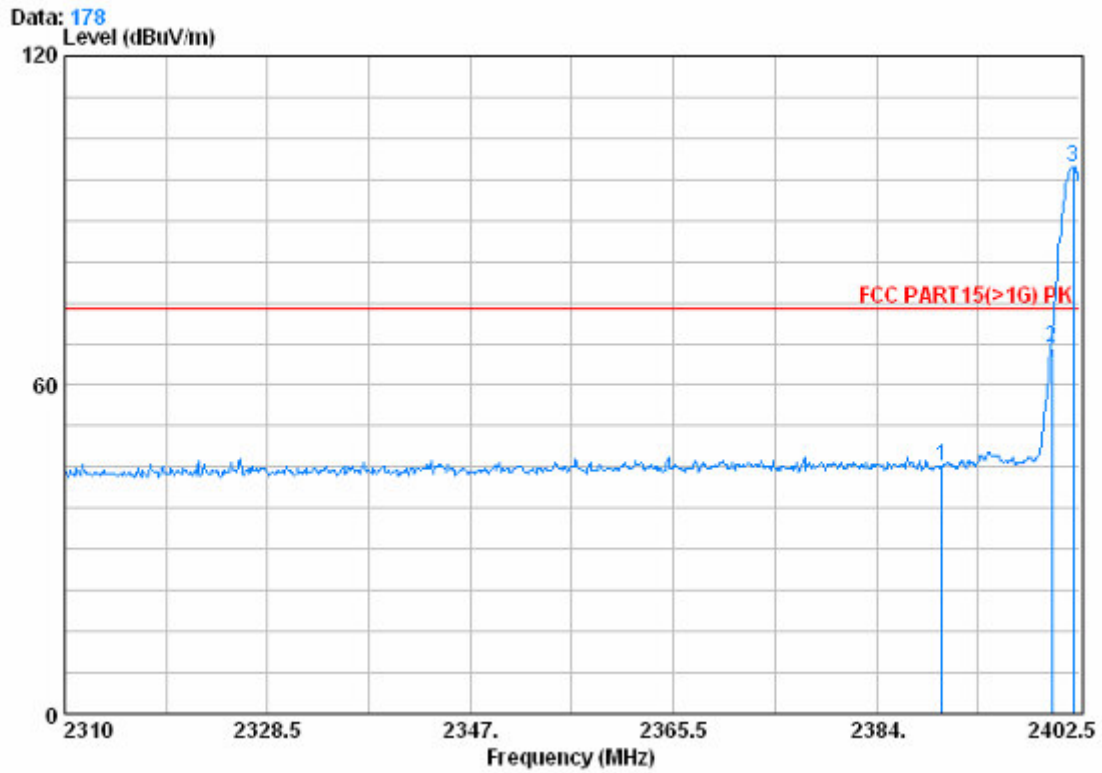


	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	47.38	46.87	74.00	-27.13 Peak
2	2400.000	6.34	32.25	38.87	70.88	70.60	74.00	-3.40 Peak
3	2402.000	6.34	32.25	38.87	101.04	100.75	114.00	-13.25 Peak

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Horizontal:



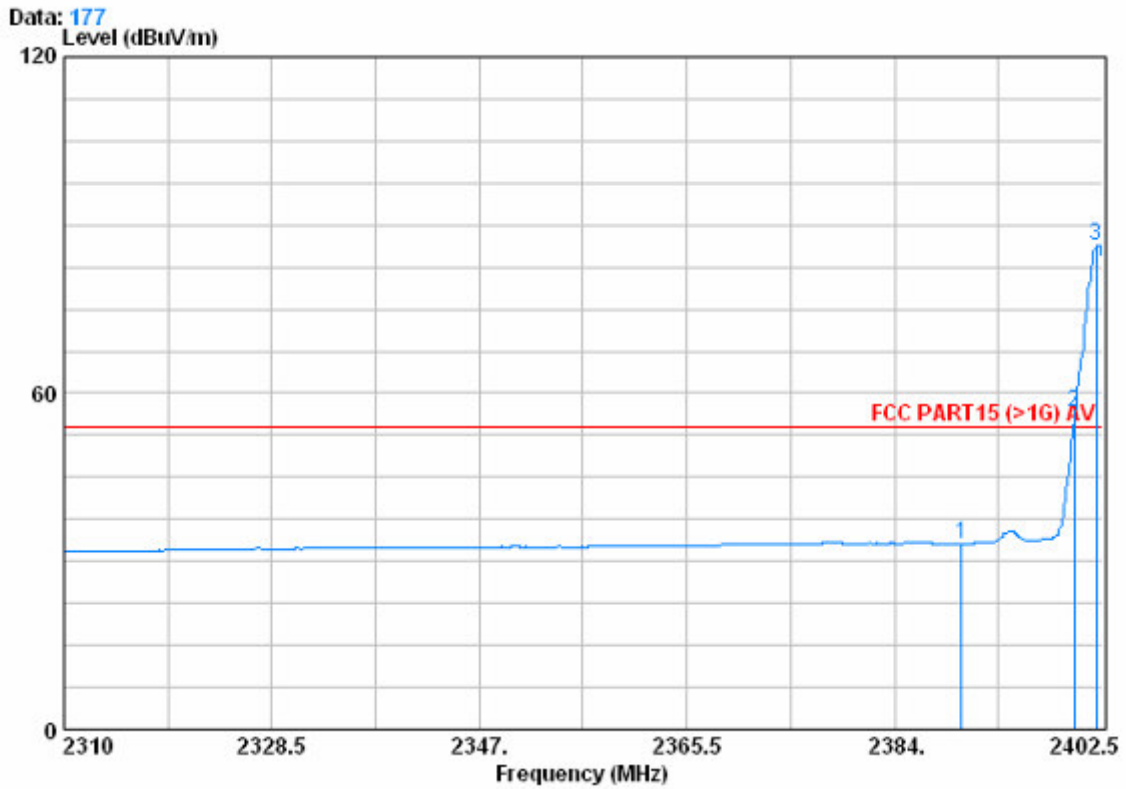
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	45.66	45.15	74.00	-28.85 Peak
2	2400.000	6.34	32.25	38.87	67.06	66.78	74.00	-7.22 Peak
3 X	2402.000	6.34	32.25	38.87	100.07	99.78	74.00	25.78 Peak

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Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average
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Vertical:

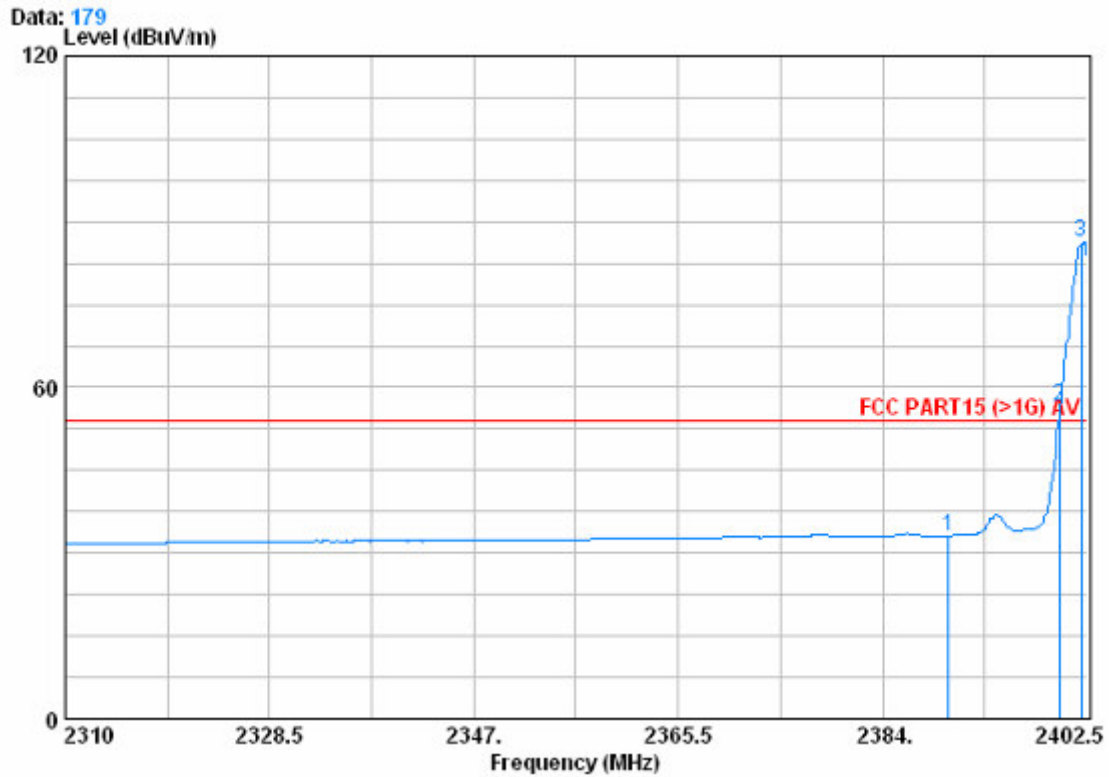


	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dB	
1	2390.000	6.28	32.24	39.03	33.14	-20.86	Average
2 X	2400.000	6.34	32.25	38.87	56.67	2.67	Average
3 X	2402.000	6.34	32.25	38.87	86.48	32.48	Average

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Horizontal:



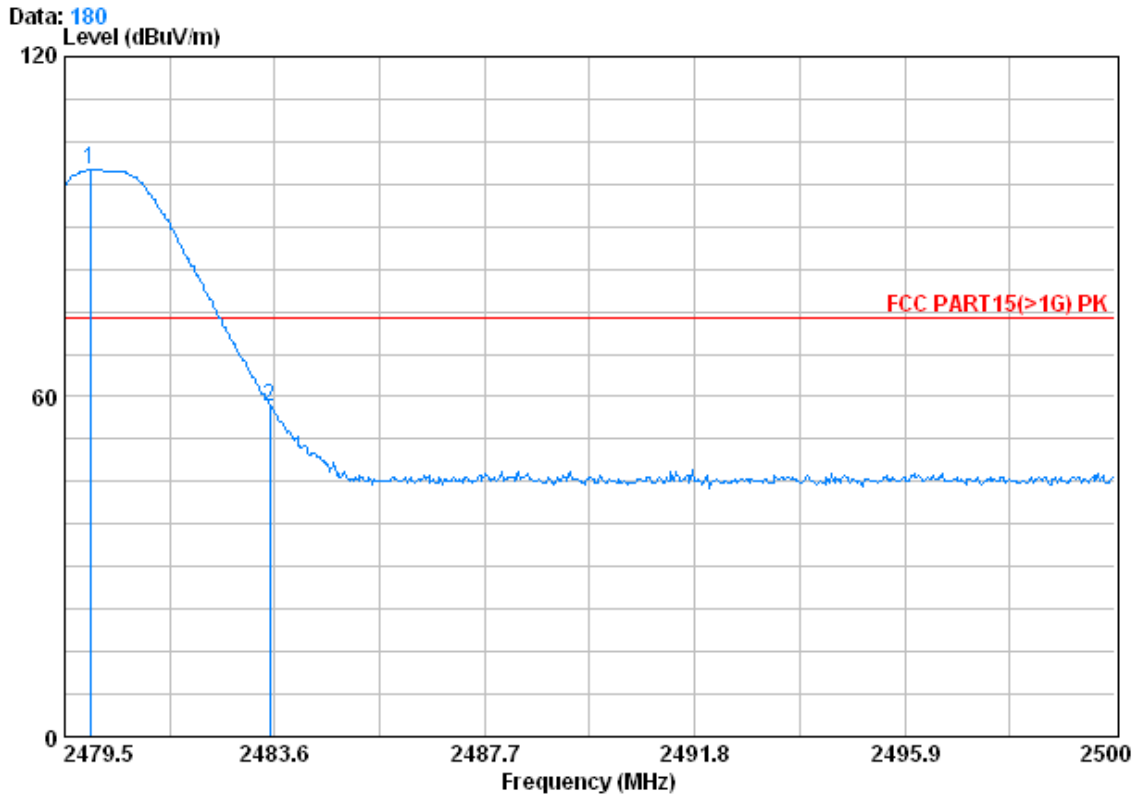
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2390.000	6.28	32.24	39.03	33.66	33.15	54.00	-20.85 Average
2 X	2400.000	6.34	32.25	38.87	56.69	56.40	54.00	2.40 Average
3 X	2402.000	6.34	32.25	38.87	86.51	86.22	54.00	32.22 Average

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
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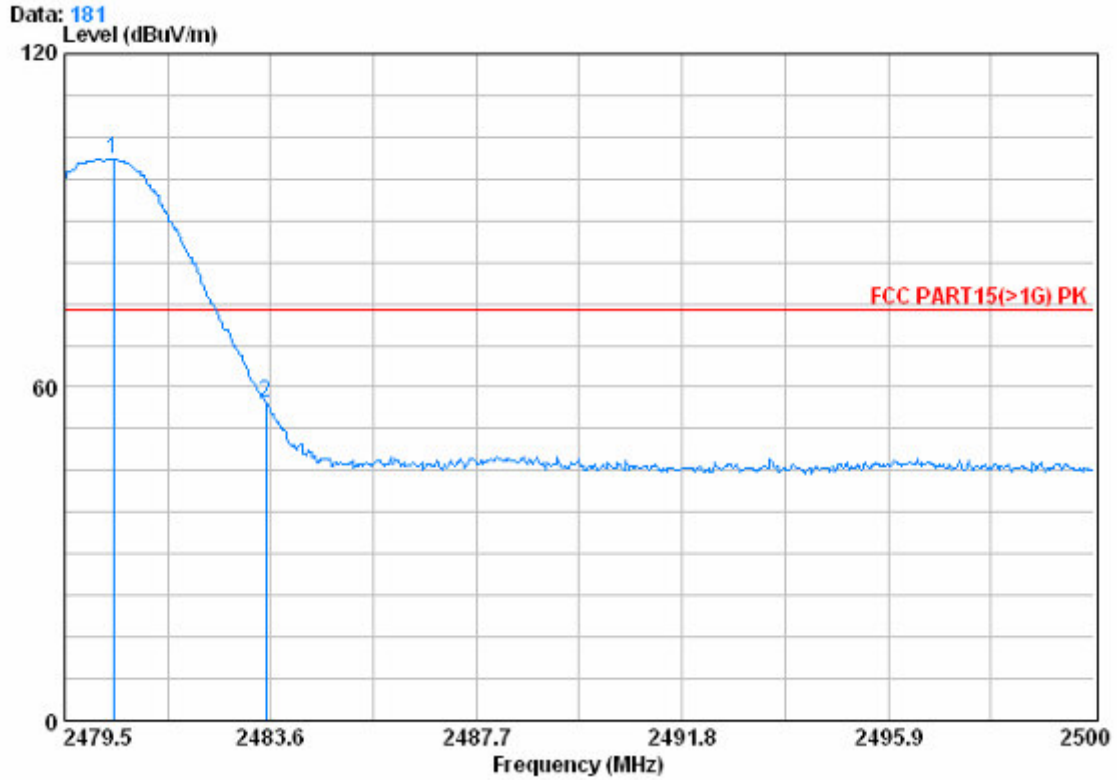
Vertical:



	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 X	2480.000	6.45	32.29	39.72	100.91	99.93	74.00 25.93 Peak
2	2483.509	6.22	32.29	39.53	59.30	58.28	74.00 -15.72 Peak

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Horizontal:



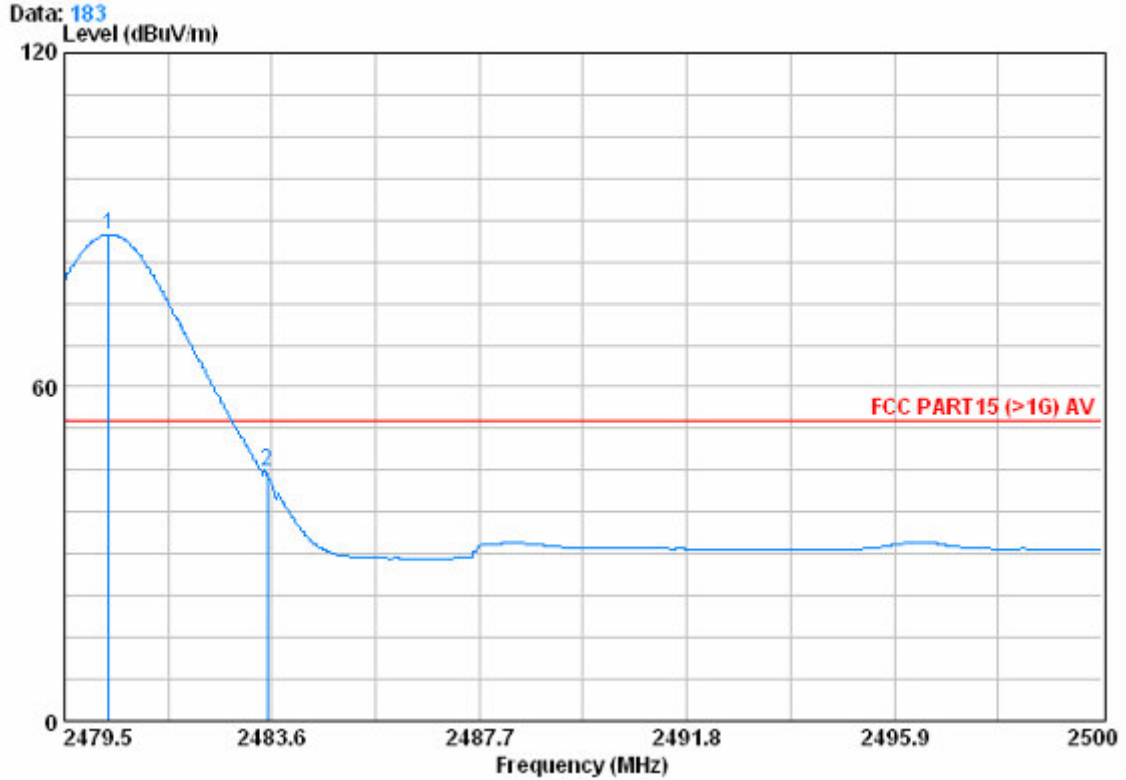
	Freq	CableAntenna Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2480.473	6.45	32.29	39.72	101.95	100.97	74.00	26.97 Peak
2	2483.509	6.22	32.29	39.53	58.17	57.15	74.00	-16.85 Peak

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Test mode:	Transmitting	Test channel:	Highest	Remark:	Average
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Vertical:

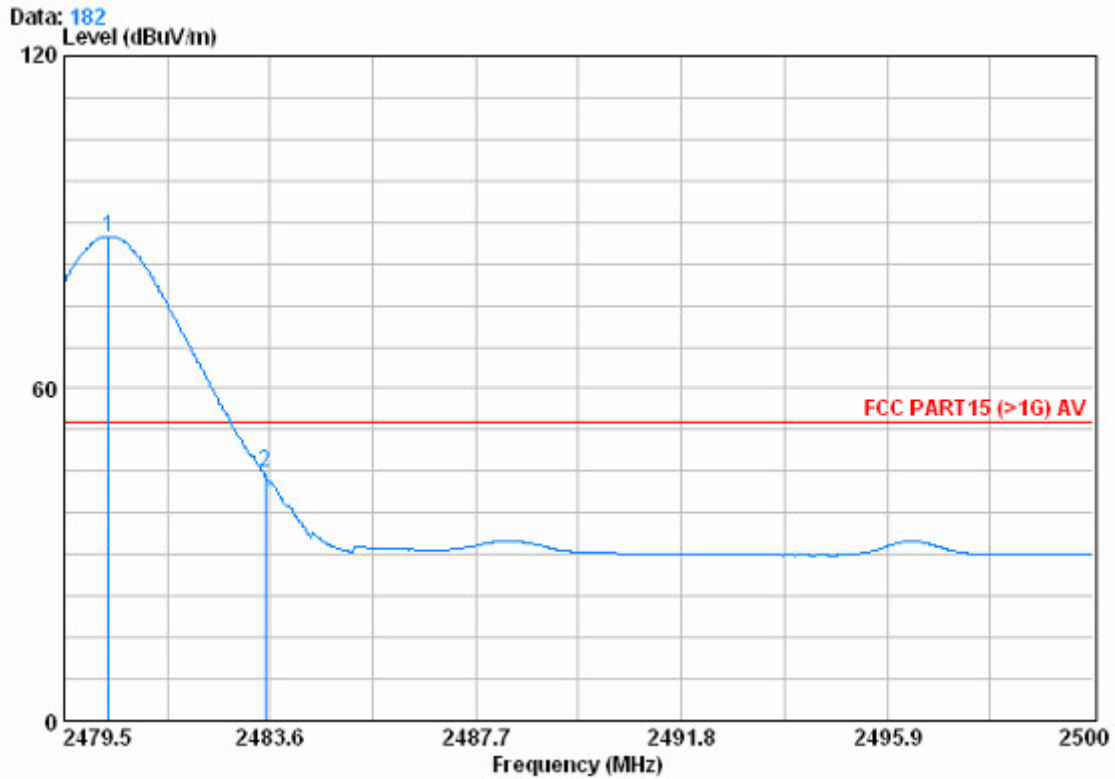


	Freq	CableAntenna Preamp			Read		Limit	Over	Remark
		Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	6.45	32.29	39.72	88.42	87.44	54.00	33.44	Average
2	2483.509	6.22	32.29	39.53	45.85	44.83	54.00	-9.17	Average

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Horizontal:



	Freq	CableAntenna Loss	Preamp Factor	Preamp	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2480.001	6.45	32.29	39.72	88.45	87.46	54.00	33.46 Average
2	2483.509	6.22	32.29	39.53	45.87	44.85	54.00	-9.15 Average

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