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Report No.: SZEMO09100599801
Page: 1 of 55

FCC REPORT

Application No: SZEMO091005998RF
Applicant: Scosche Industries Inc
Product Name: Bluetooth CarKit
Operation Frequency: 2.402GHz to 2.480GHz
FCC ID: IKQBT1000
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt: 23 October 2009
Date of Test: 27 October to 13 November 2009
Date of Issue: 16 November 2009

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

Authorized Signature:

Robinson Lo
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:	Scosche Industries Inc
Address of Applicant:	1550 Pacific Ave Oxnard, CA 93033
Manufacturer/ Factory:	Sunitec Enterprise Co., Ltd.
Address of Manufacturer/ Factory:	No.2, Qilin Road 2, RunTang Ind, Dan-Keng Village Fu Min Community, Guan-Lan Town, Baoan District, Shenzhen Guangdong China

4.2 General Description of E.U.T.

Product Name:	Bluetooth CarKit
Trade Name:	N/A
Item No.:	IKQBT1000
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	0dBi
Power supply:	DC 12V

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

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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:	Keep the EUT communicating with other Bluetooth device
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	15-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2009	17-06-2010
6	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2009	11-08-2010
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2009	11-08-2010
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2009	11-08-2010
9	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2009	17-06-2010
10	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2009	17-06-2010
11	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2009	17-06-2010
12	Band filter	Amindeon	82346	SEL0094	18-06-2009	17-06-2010

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	10336/030	EMC0040	16-06-2009	15-06-2010
2	Coaxial cable	SGS	N/A	SEL0029	18-06-2009	17-06-2010

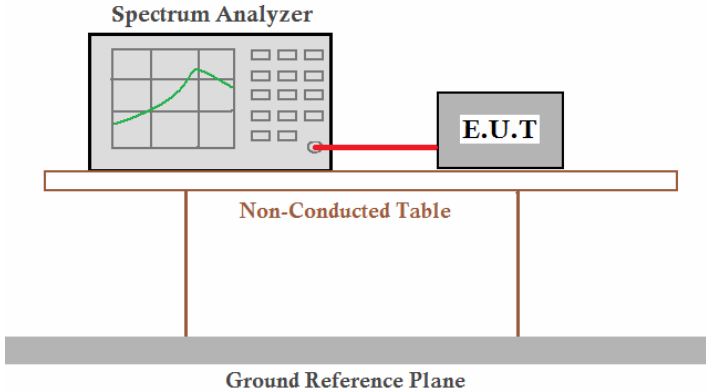


5 Test results and Measurement Data

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. 15.247(c) (1)(i) requirement: (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.	
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 0dBi.	

5.2 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><i>Remark: Offset the High-Frequency cable loss 2.0dB 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

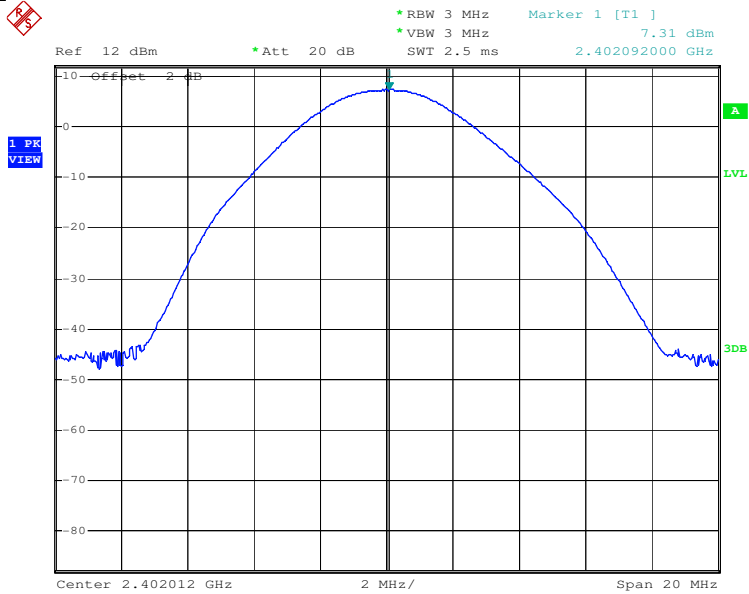
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.31	30.00	Pass
Middle	6.94	30.00	Pass
Highest	6.31	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.09	30.00	Pass
Middle	5.74	30.00	Pass
Highest	4.94	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.31	30.00	Pass
Middle	6.02	30.00	Pass
Highest	5.17	30.00	Pass



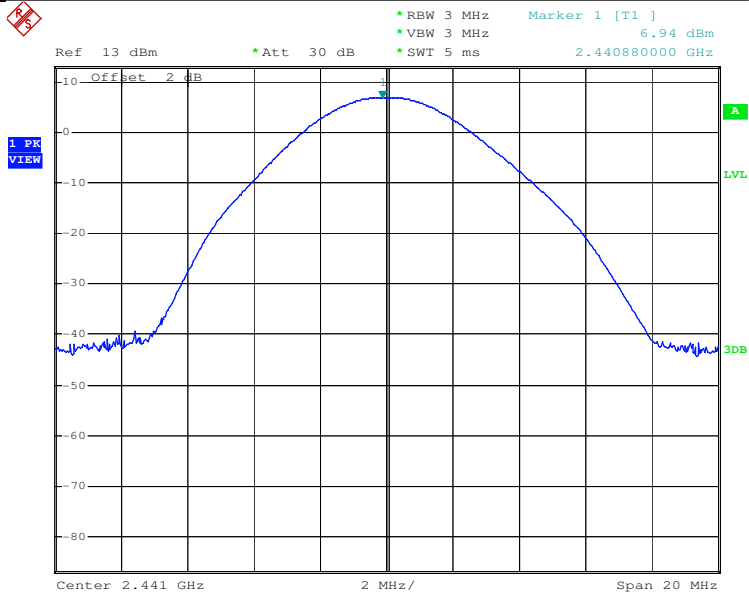
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 29.OCT.2009 22:55:56

Test mode:	GFSK	Test channel:	Middle
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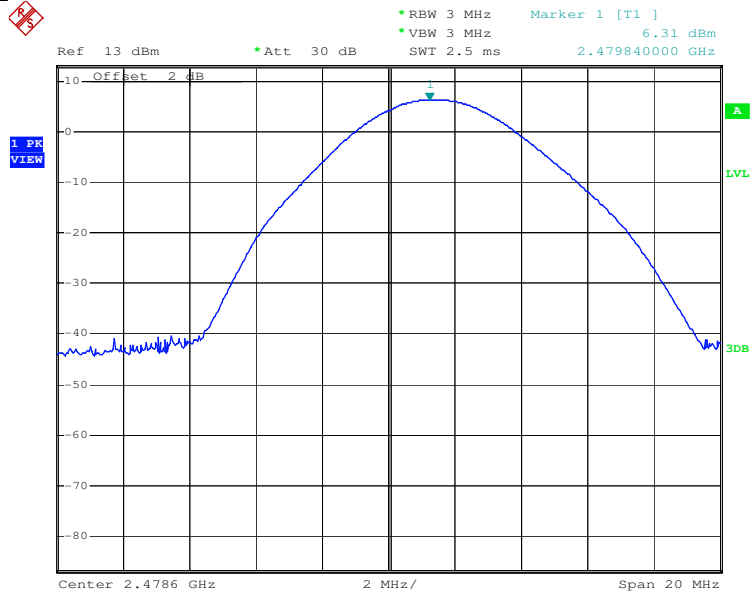


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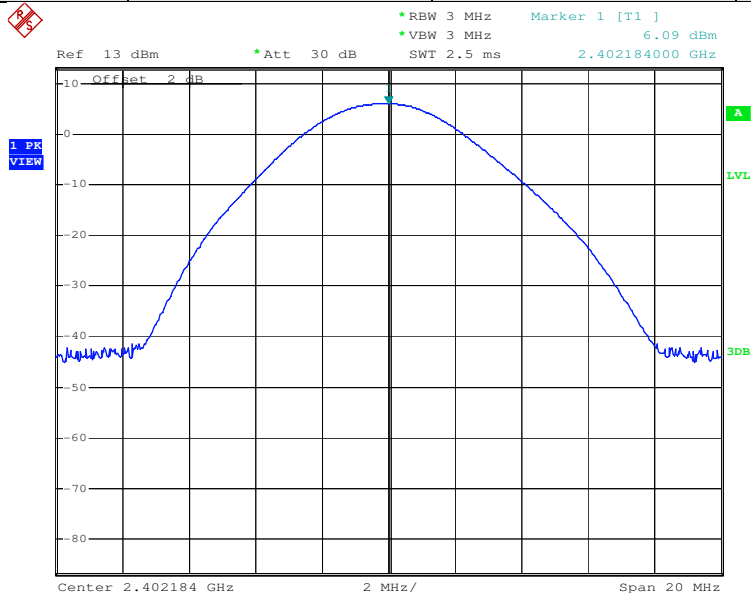


Test mode:	GFSK	Test channel:	Highest
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Date: 30.OCT.2009 11:45:06

Test mode:	Pi/4QPSK	Test channel:	Lowest
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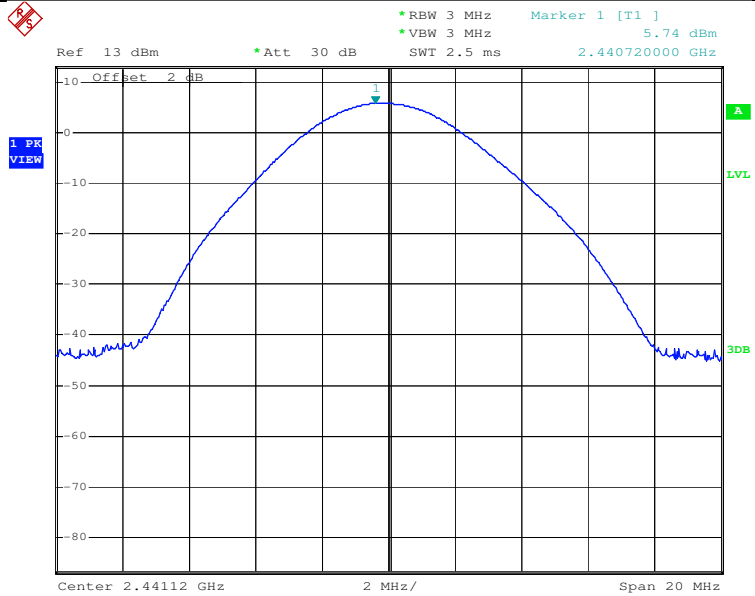


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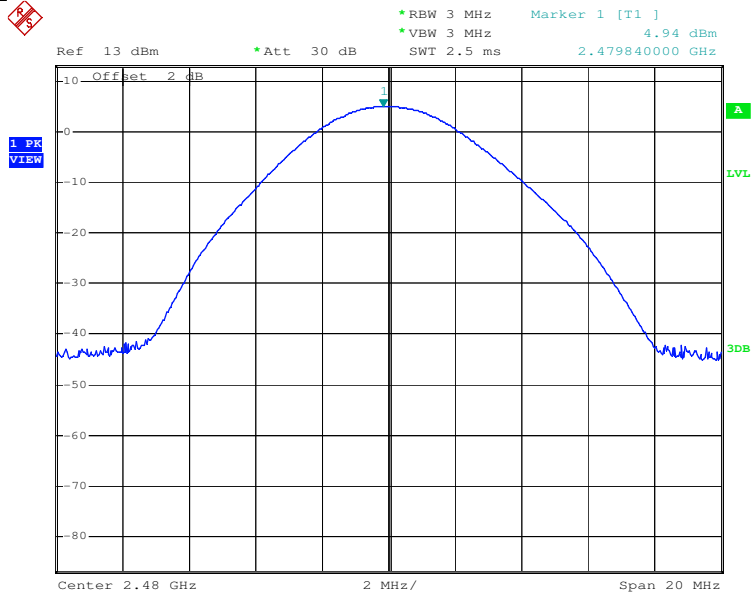


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 12.NOV.2009 09:46:48

Test mode:	Pi/4QPSK	Test channel:	Highest
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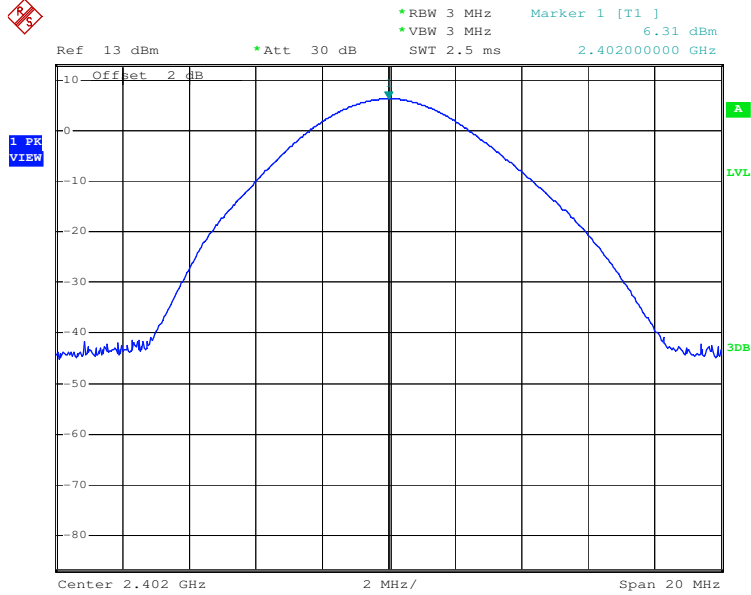


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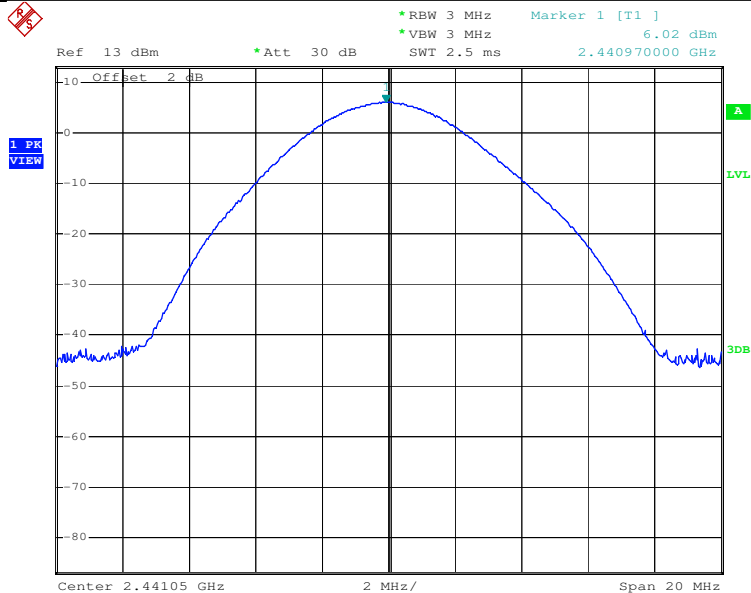


Test mode:	8DPSK	Test channel:	Lowest
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Date: 12.NOV.2009 11:24:19

Test mode:	8DPSK	Test channel:	Middle
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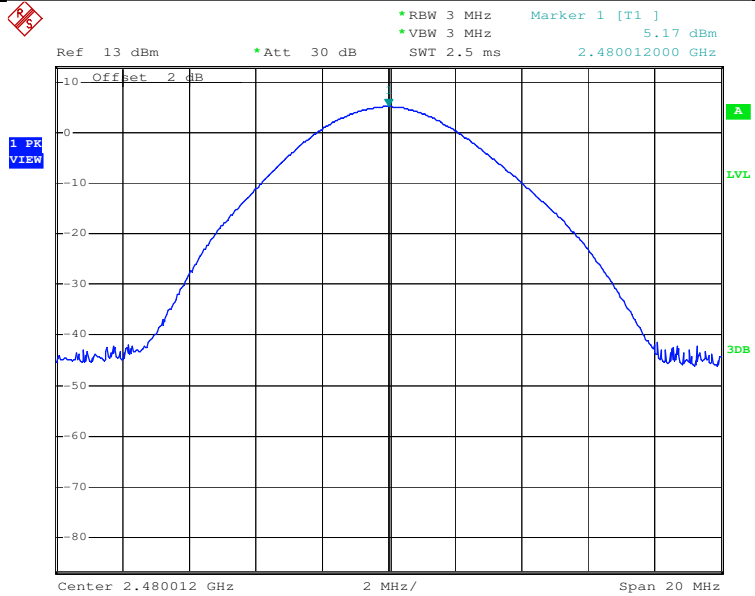


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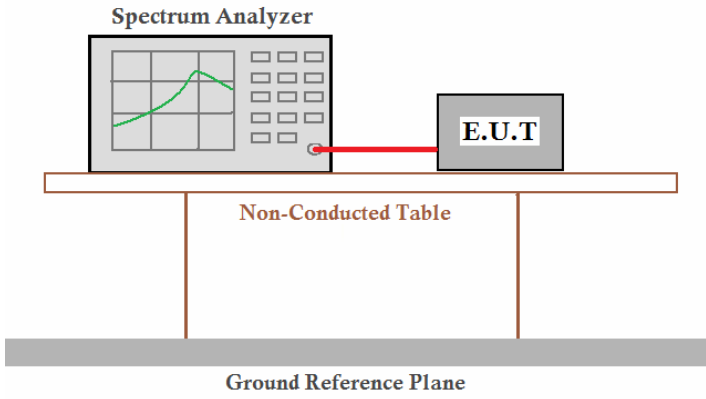


Test mode:	8DPSK	Test channel:	Highest
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Date: 12.NOV.2009 13:32:15

5.3 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 style="text-align: center;"><i>Remark: Offset the High-Frequency cable loss 2.0dB in the spectrum analyzer</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with modulation.

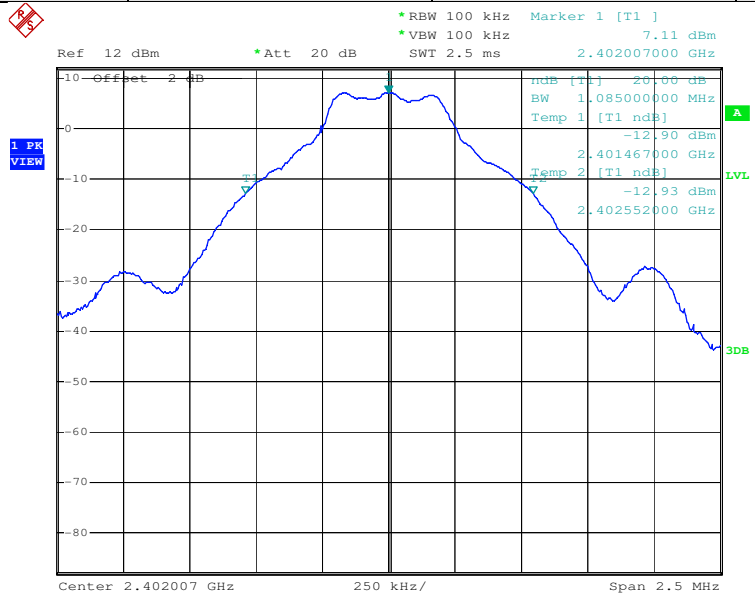
Measurement Data

Test channel	20dB Occupy Bandwidth (KHz)		
	GFSK	Pi/4QPSK	8DPSK
Lowest	1085	1380	1340
Middle	1085	1375	1340
Highest	1090	1370	1345



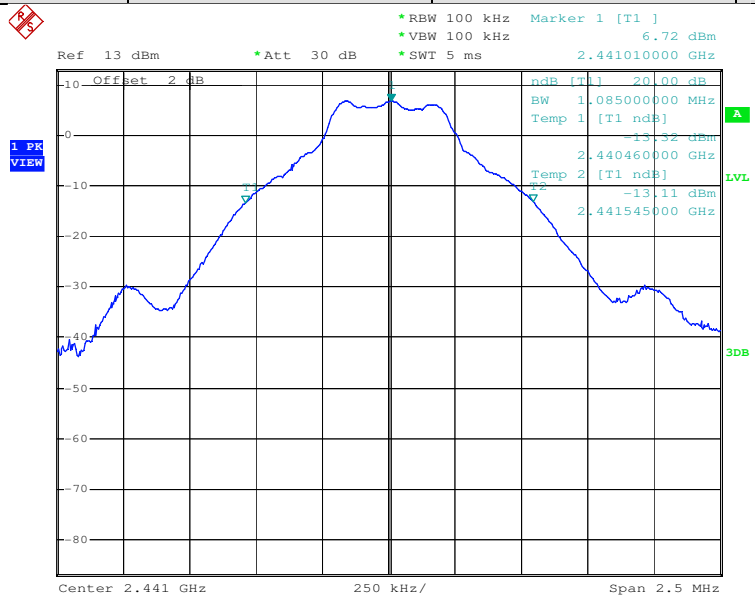
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 29.OCT.2009 22:50:28

Test mode:	GFSK	Test channel:	Middle
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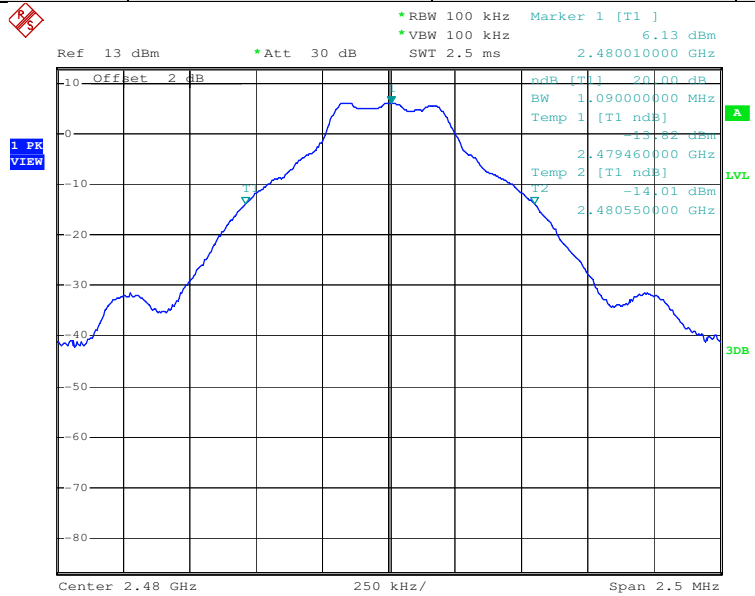


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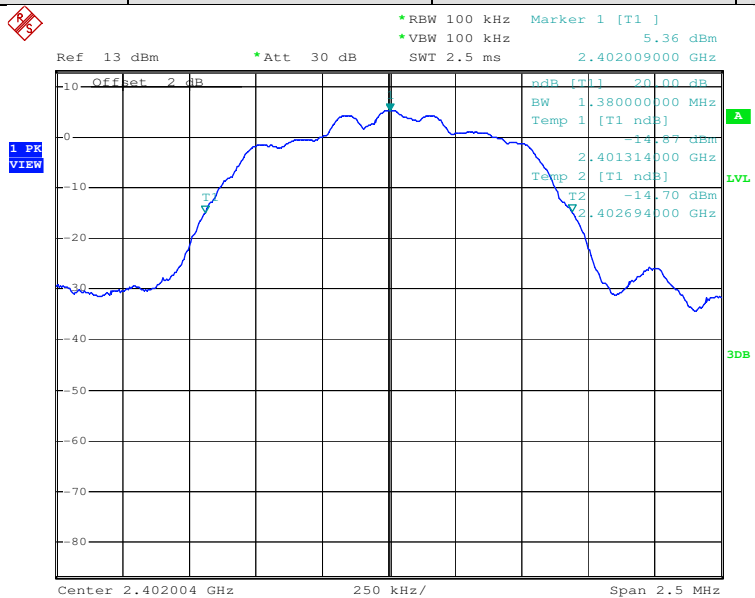


Test mode:	GFSK	Test channel:	Highest
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Date: 30.OCT.2009 11:47:02

Test mode:	Pi/4QPSK	Test channel:	Lowest
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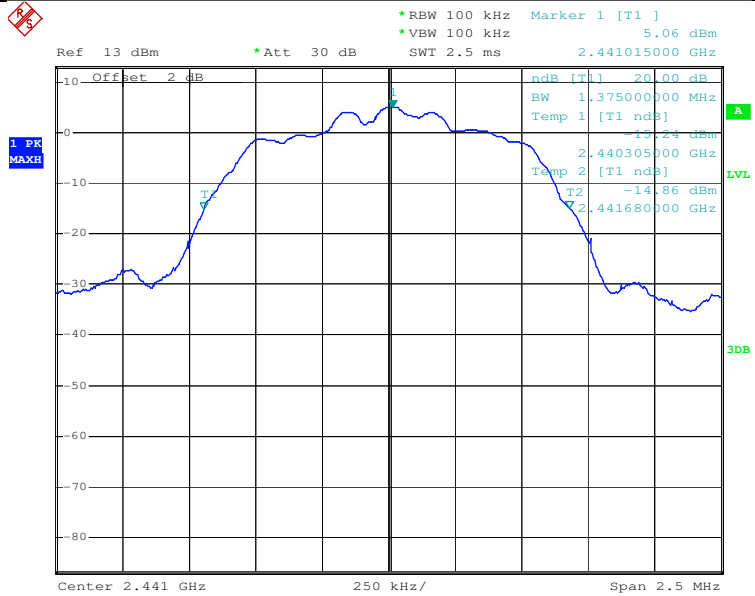


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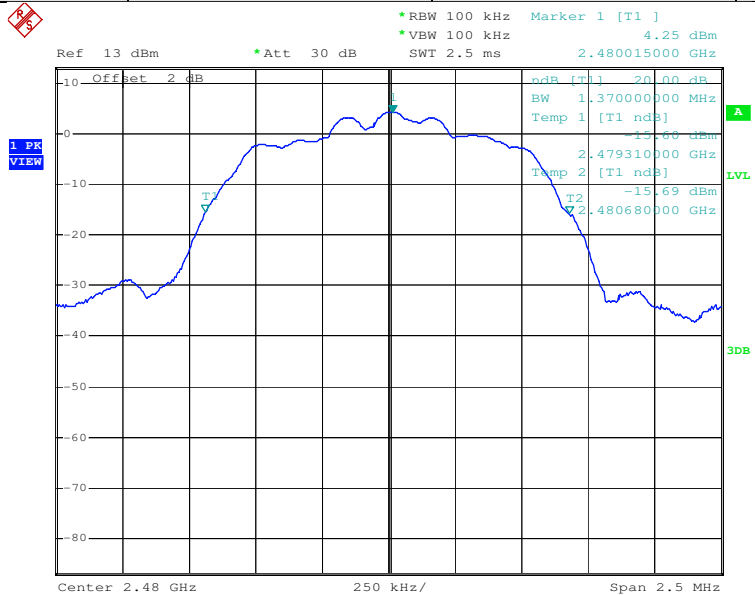


Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 12.NOV.2009 09:49:11

Test mode:	Pi/4QPSK	Test channel:	Highest
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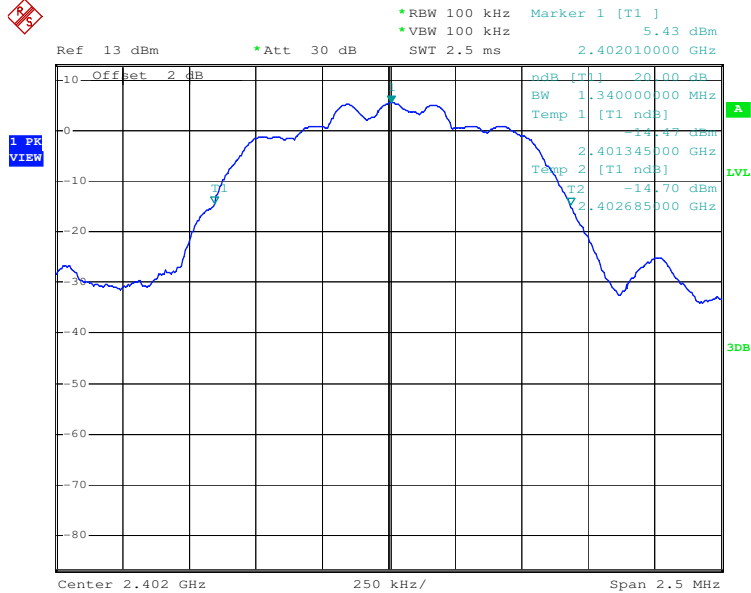


Date: 12.NOV.2009 10:39:08

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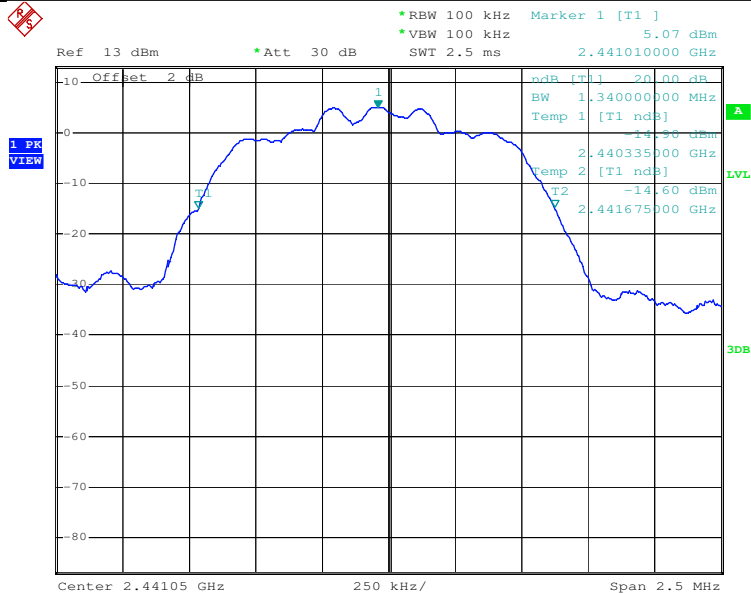


Test mode:	8DPSK	Test channel:	Lowest
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Date: 12.NOV.2009 11:25:34

Test mode:	8DPSK	Test channel:	Middle
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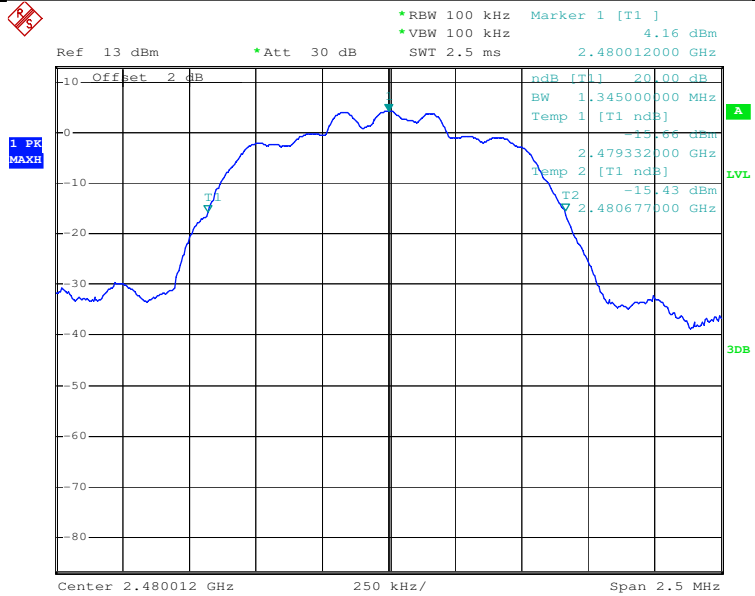


Date: 12.NOV.2009 12:07:51

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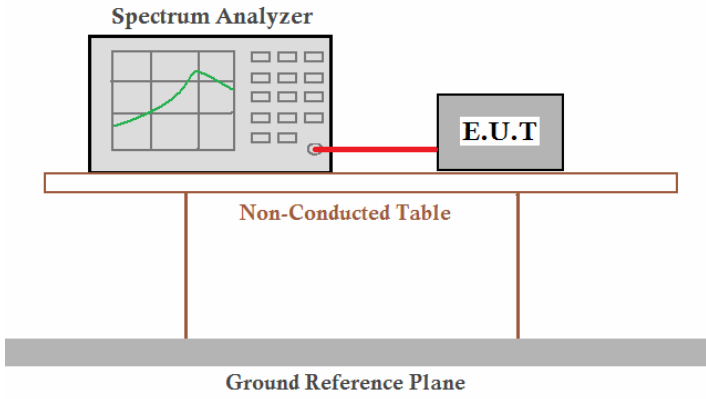
Test mode:	8DPSK	Test channel:	Highest
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Date: 12.NOV.2009 13:31:37

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5.4 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 style="text-align: center;"><i>Remark:</i> <i>Offset the High-Frequency cable loss 2.0dB 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	1000	920	Pass
Middle	1000	920	Pass
Highest	1000	920	Pass
Pi/4QPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1008	920	Pass
Middle	1008	920	Pass
Highest	1002	920	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1002	920	Pass
Middle	1008	920	Pass
Highest	1008	920	Pass

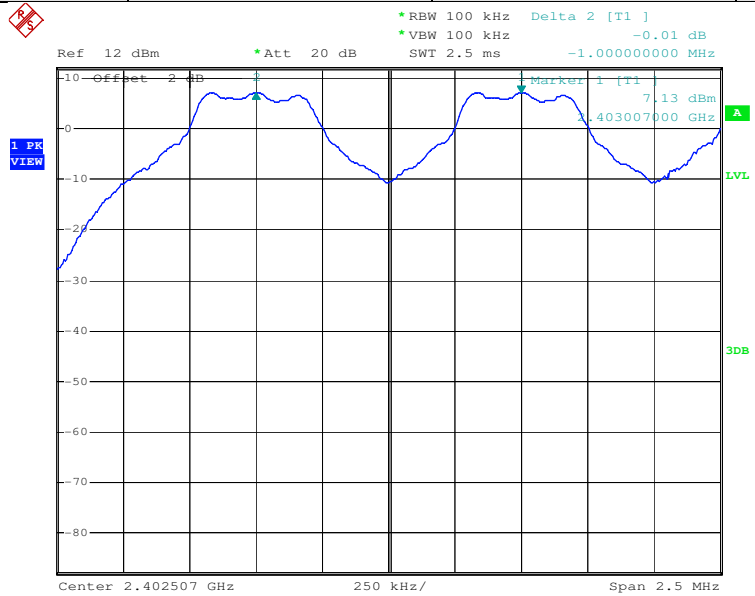
Note: According to section 5.3

Mode	20dB bandwidth (KHz) (worse case)	Limit (KHz) (Carrier Frequencies Separation)
GFSK	1090	727
PI/4QPSK	1380	920
8DPSK	1345	896



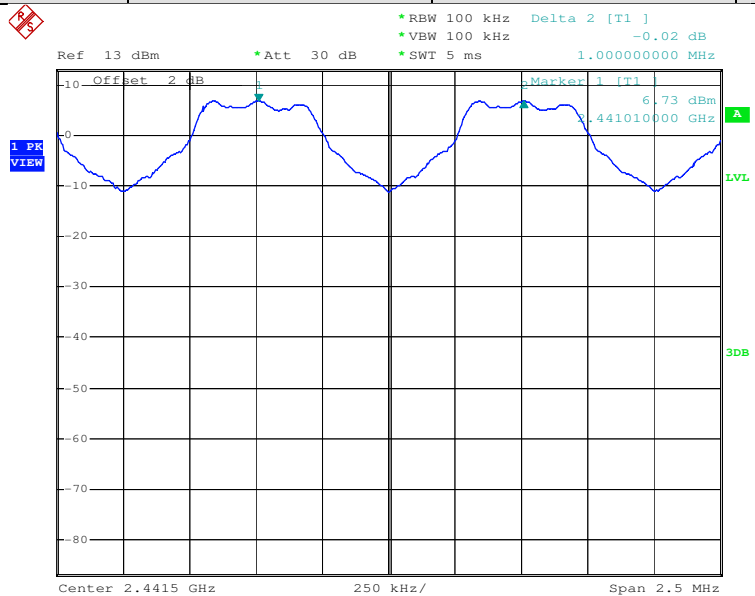
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 29.OCT.2009 22:54:17

Test mode:	GFSK	Test channel:	Middle
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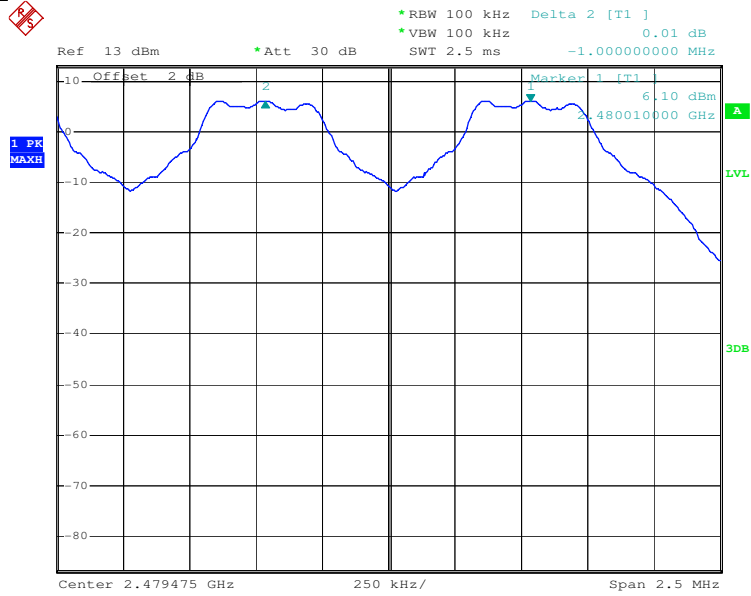


Date: 30.OCT.2009 11:10:53

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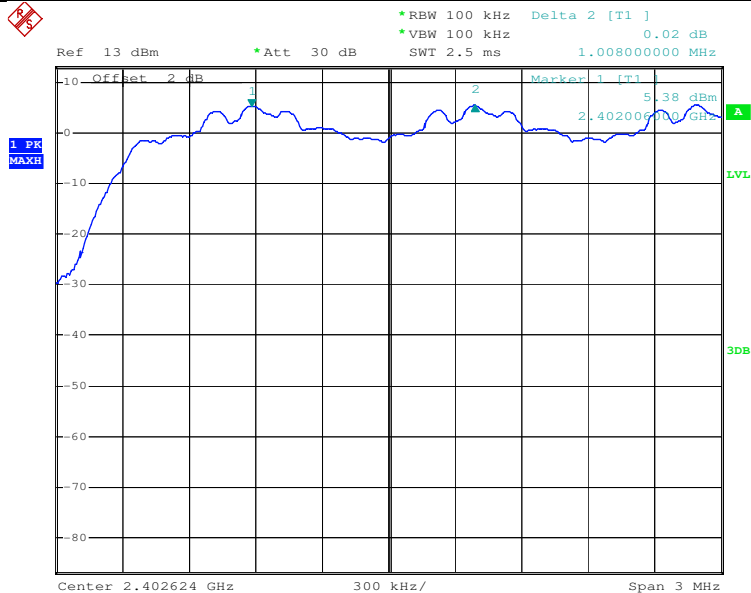


Test mode:	GFSK	Test channel:	Highest
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Date: 30.OCT.2009 13:49:21

Test mode:	PI/4QPSK	Test channel:	Lowest
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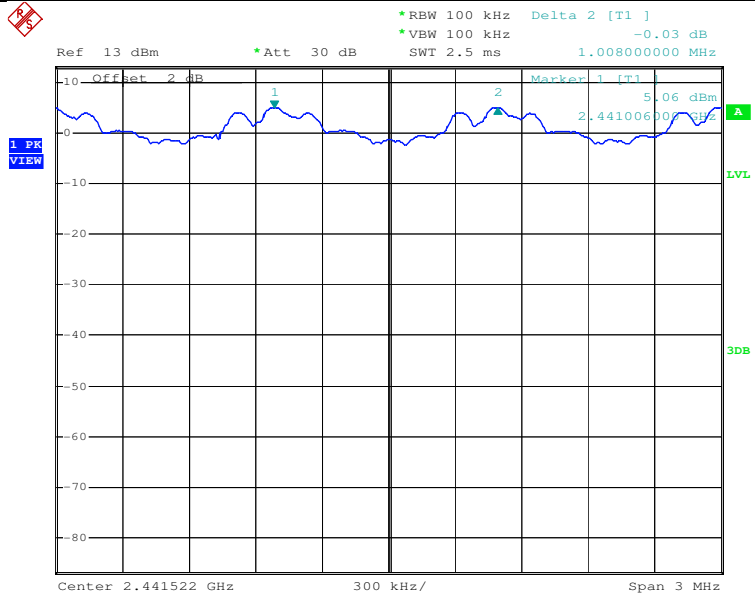


Date: 12.NOV.2009 10:58:46

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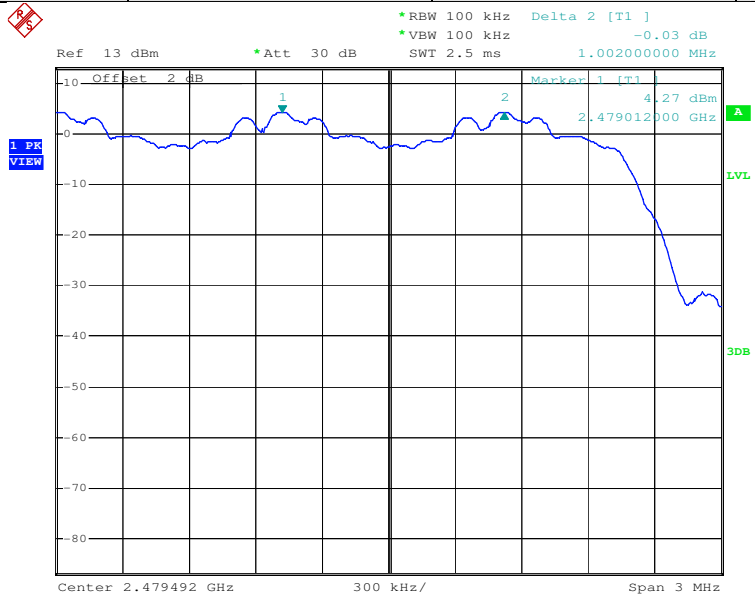


Test mode:	PI/4QPSK	Test channel:	Middle
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Date: 12.NOV.2009 10:56:35

Test mode:	PI/4QPSK	Test channel:	Highest
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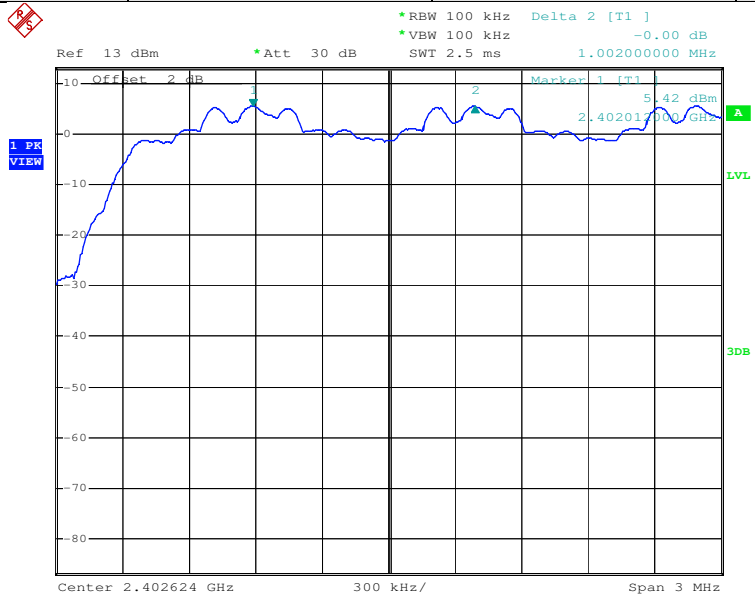


Date: 12.NOV.2009 10:54:08

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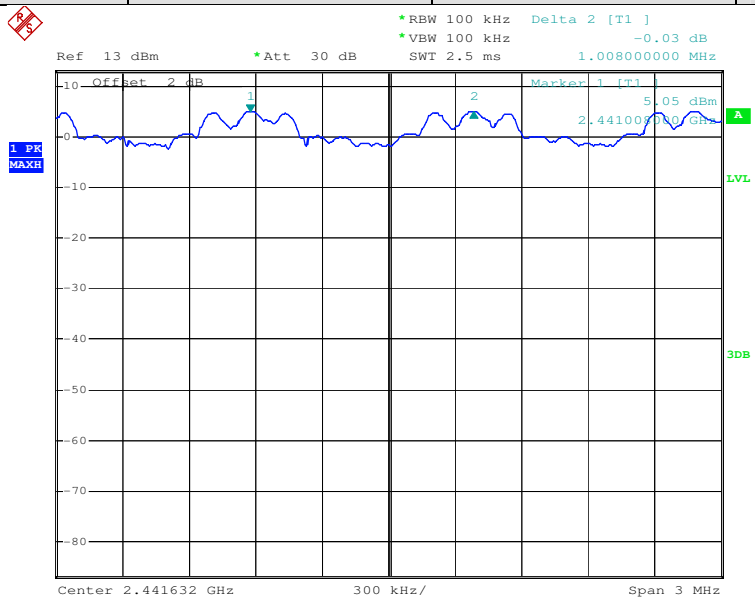


Test mode:	8DPSK	Test channel:	Lowest
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Date: 12.NOV.2009 11:45:40

Test mode:	8DPSK	Test channel:	Middle
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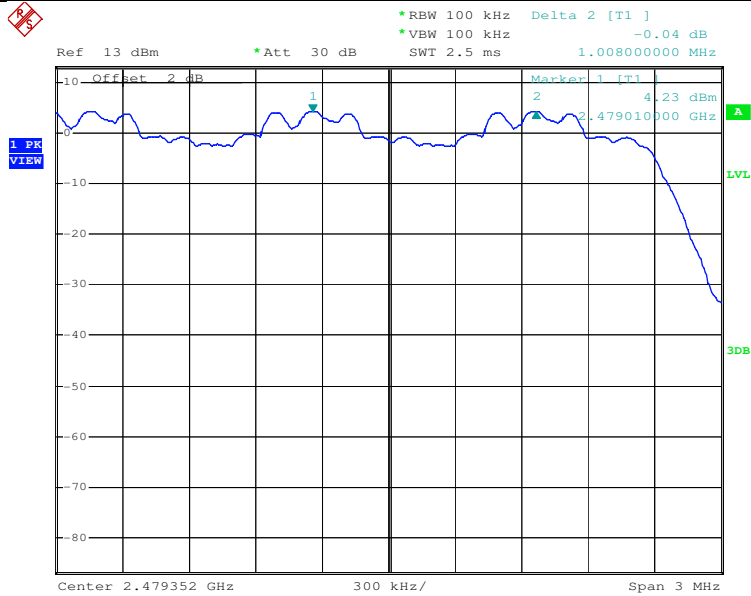


Date: 12.NOV.2009 12:12:31

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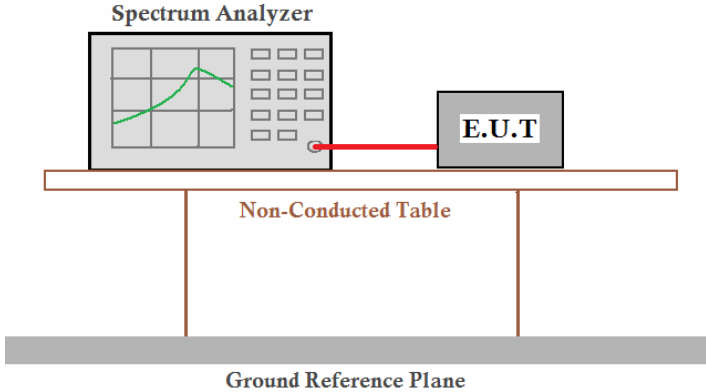
Test mode:	8DPSK	Test channel:	Highest
------------	-------	---------------	---------



Date: 12.NOV.2009 13:37:15

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5.5 Hopping Channel Number

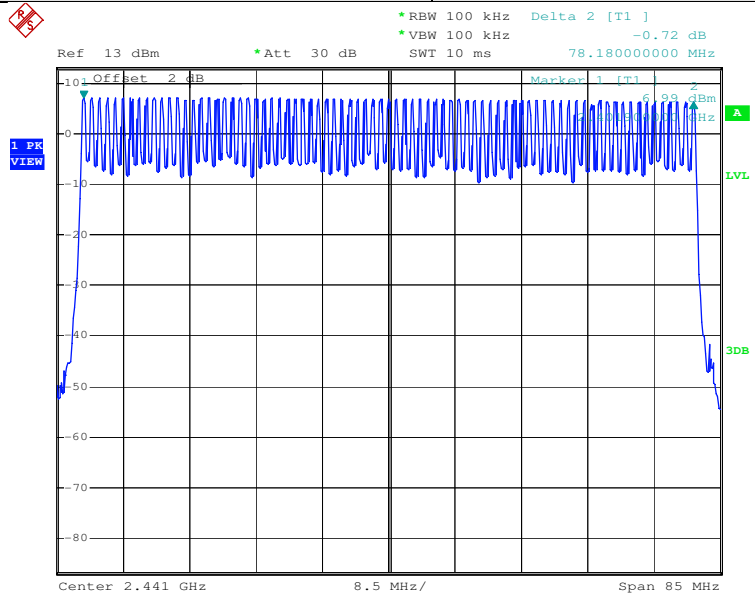
Test Requirement:	FCC Part15 C Section 15.247 (b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	At least 75channels
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 2.0dB in the spectrum analyzer</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with modulation.
Test results:	Passed

Measurement Data

Mode	Hopping channel numbers	Limit
GFSK	79	75
Pi/4QPSK	79	75
8DPSK	79	75

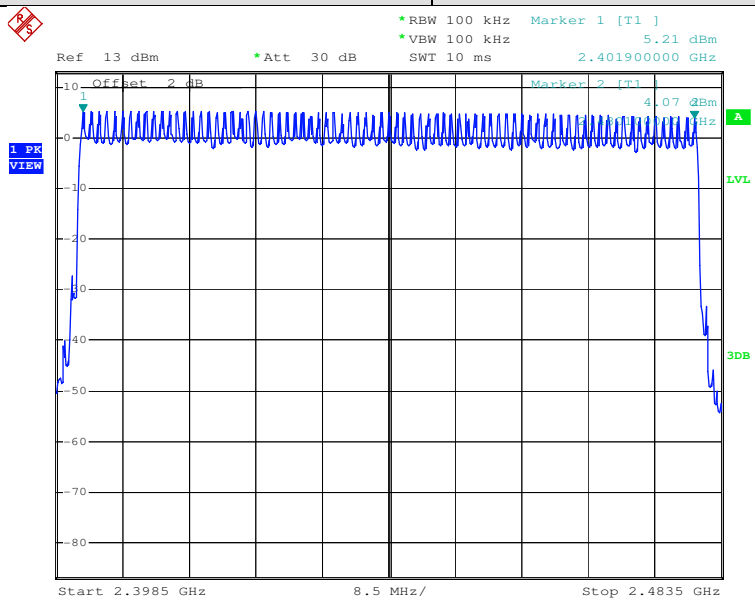
Test plot as follows

Test mode:	GFSK
------------	------



Date: 30.OCT.2009 14:01:41

Test mode:	Pi/4QPSK
------------	----------

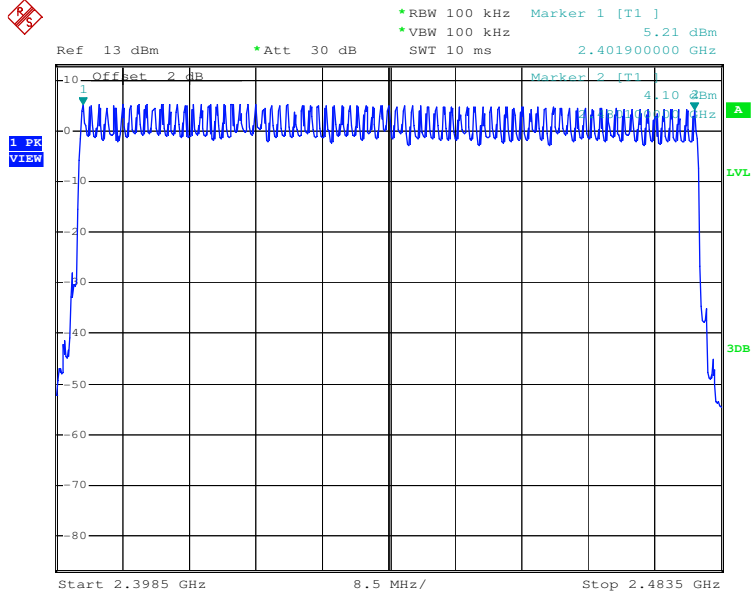


Date: 12.NOV.2009 14:34:51

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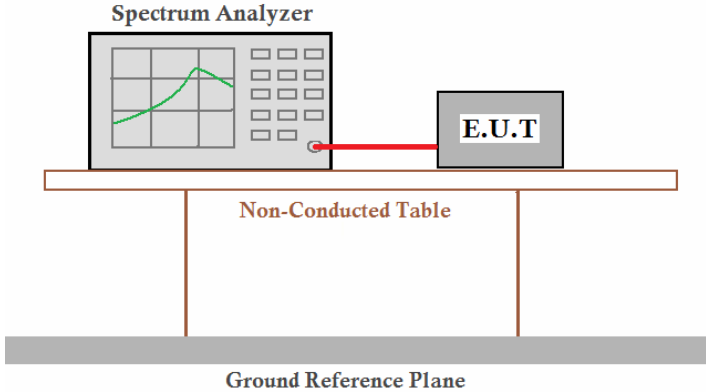
Test mode: 8DPSK



Date: 12.NOV.2009 14:42:03

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5.6 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><i>Remark: Offset the High-Frequency cable loss 2.0dB 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

Packet	Dwell time (second)	Limit (second)
DH1	0.166	0.4
DH3	0.278	0.4
DH5	0.324	0.4

Test Result:

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

DH1 time slot = $0.520(\text{ms}) \times (1600 / (2 \times 79)) \times 31.6 = 166 \text{ ms}$

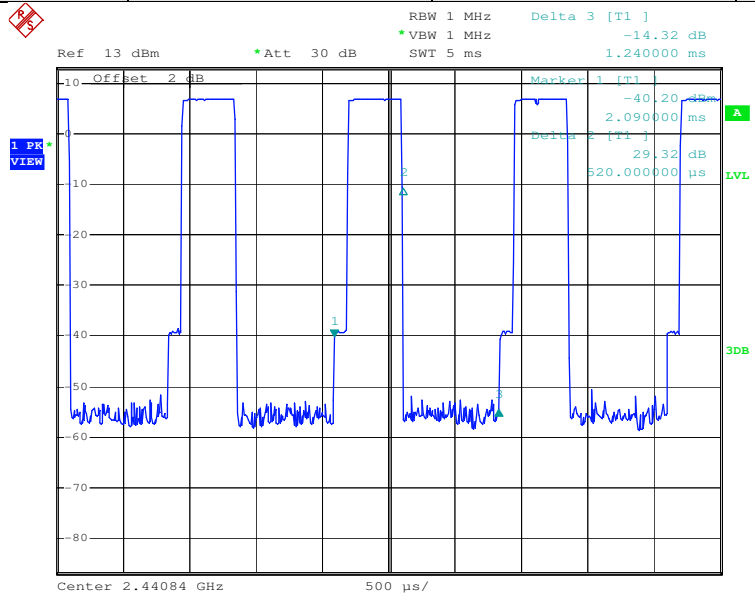
DH3 time slot = $1.74(\text{ms}) \times (1600 / (4 \times 79)) \times 31.6 = 278 \text{ ms}$

DH5 time slot = $3.04(\text{ms}) \times (1600 / (6 \times 79)) \times 31.6 = 324 \text{ ms}$



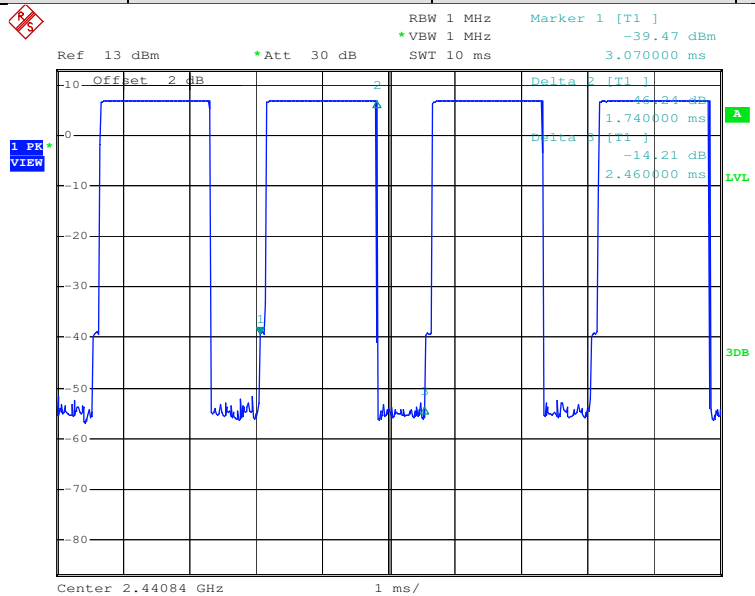
Test plot as follows

Test mode:	GFSK	Test Packet:	DH1
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Date: 30.OCT.2009 11:39:04

Test mode:	GFSK	Test Packet:	DH3
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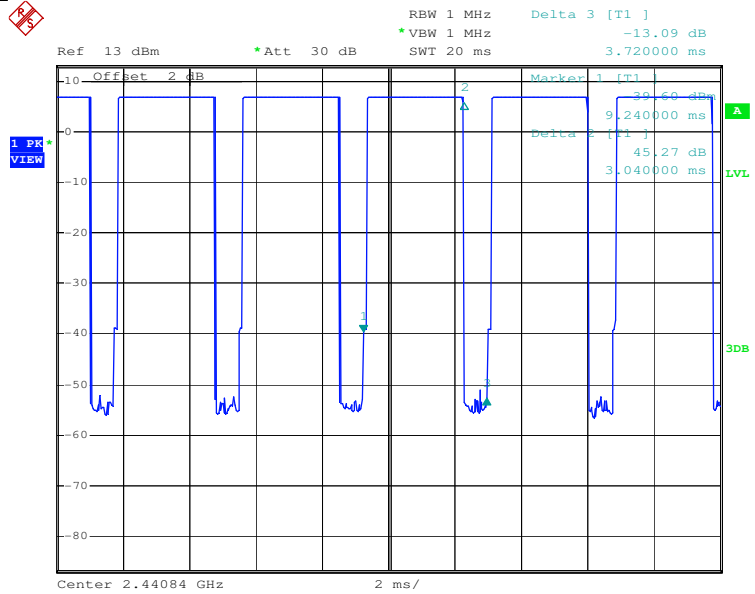


Date: 30.OCT.2009 11:40:14

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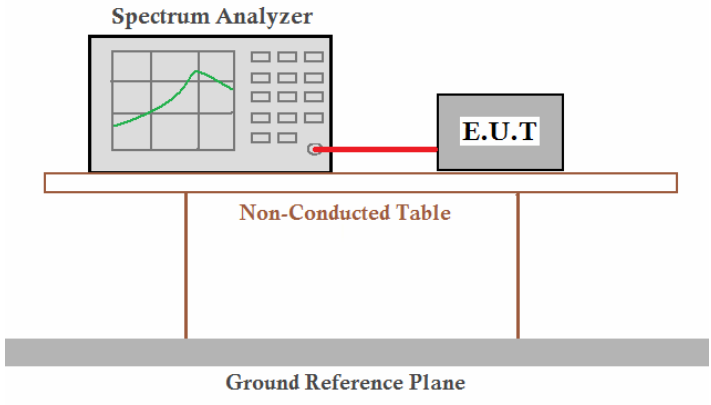


Test mode:	GFSK	Test Packet:	DH5
------------	------	--------------	-----



Date: 30.OCT.2009 11:41:13

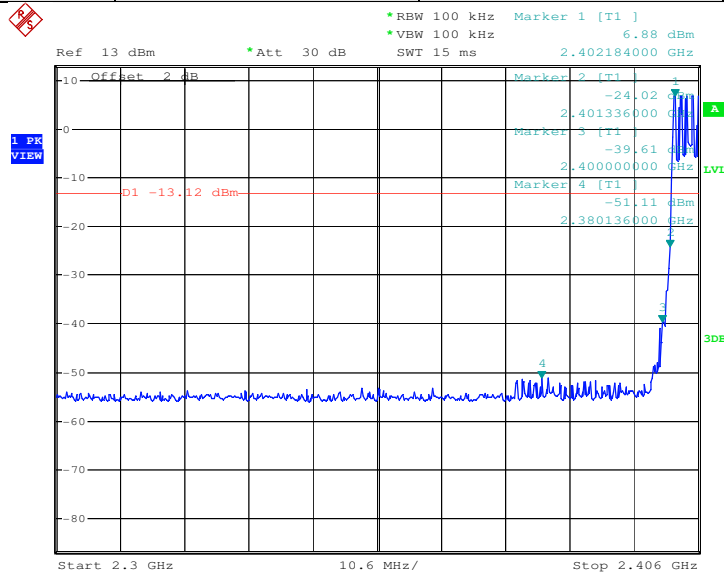
5.7 Band Edge

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 style="text-align: center;"><i>Remark:</i> <i>Offset the High-Frequency cable loss 2.0dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with modulation.
Test results:	Passed



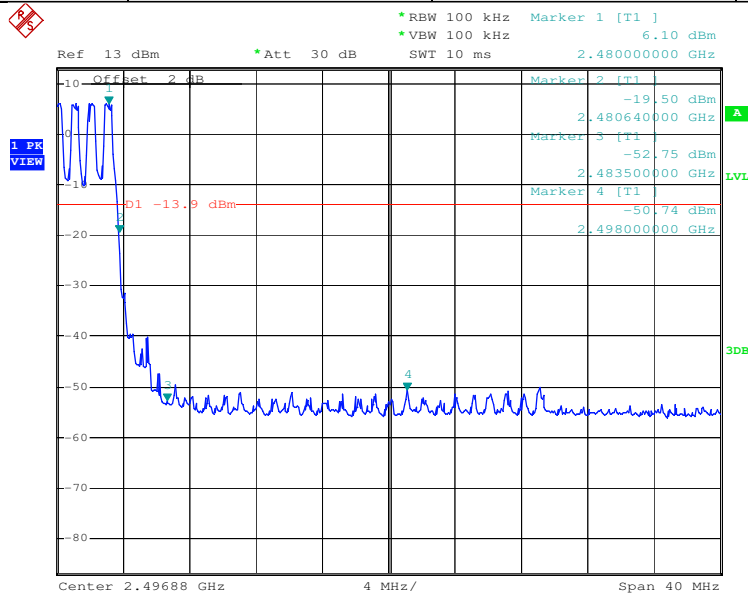
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 12.NOV.2009 08:56:46

Test mode:	GFSK	Test channel:	Highest
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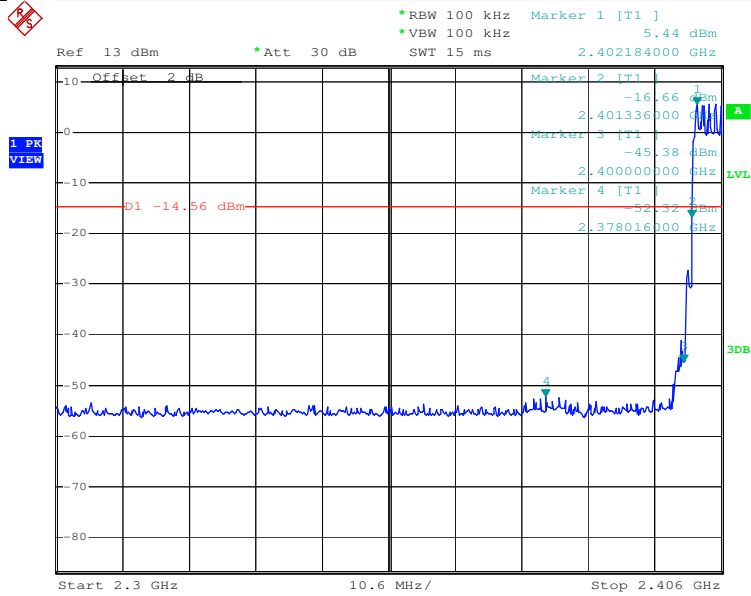


Date: 6.NOV.2009 10:42:36

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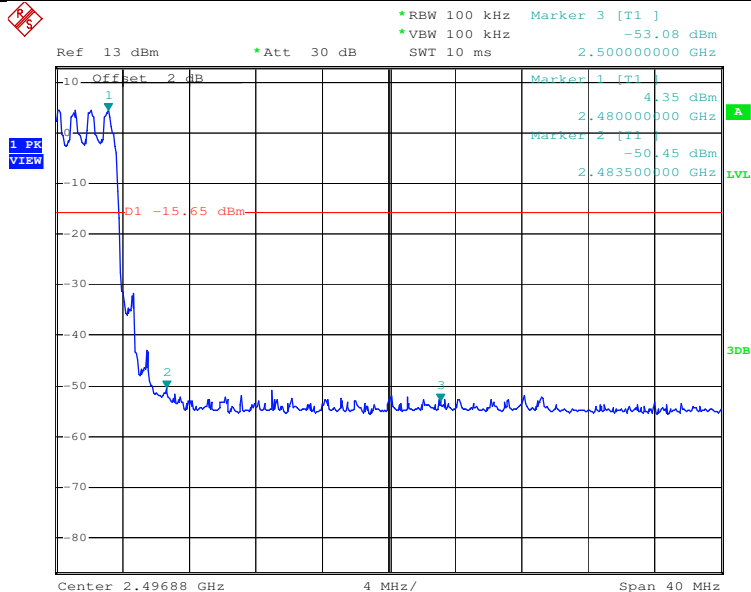


Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 12.NOV.2009 09:03:16

Test mode:	Pi/4QPSK	Test channel:	Highest
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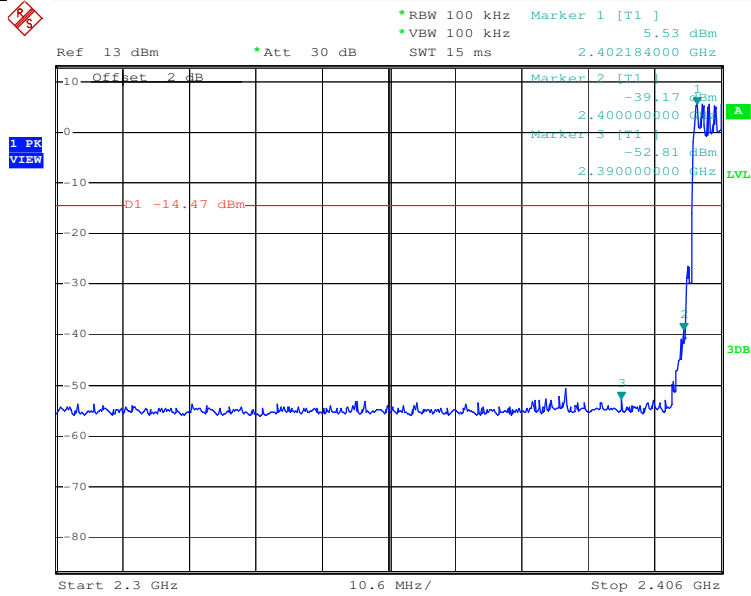


Date: 12.NOV.2009 11:13:57

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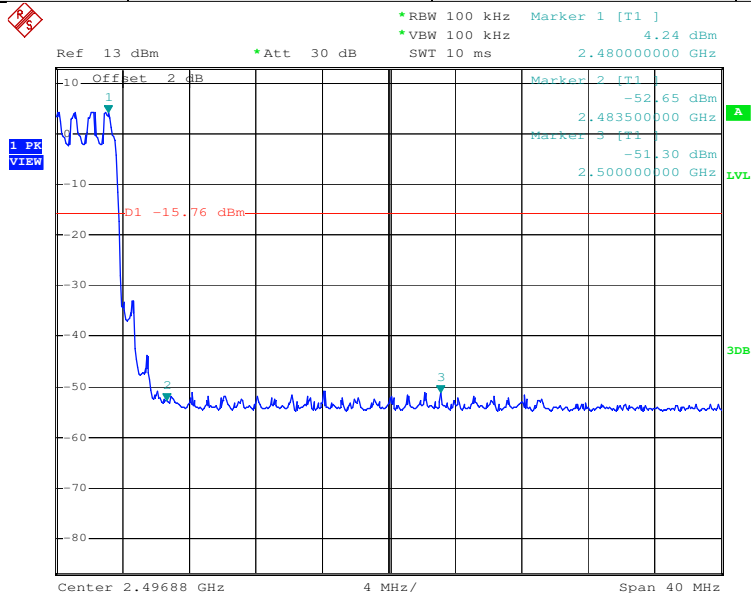


Test mode:	8DPSK	Test channel:	Lowest
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Date: 12.NOV.2009 11:30:10

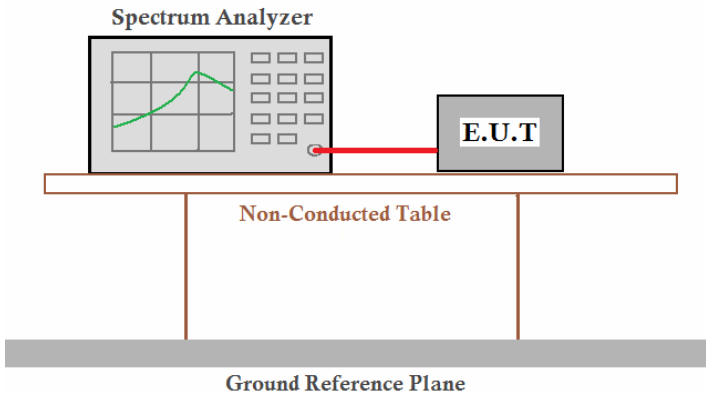
Test mode:	8DPSK	Test channel:	Highest
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Date: 12.NOV.2009 13:26:04

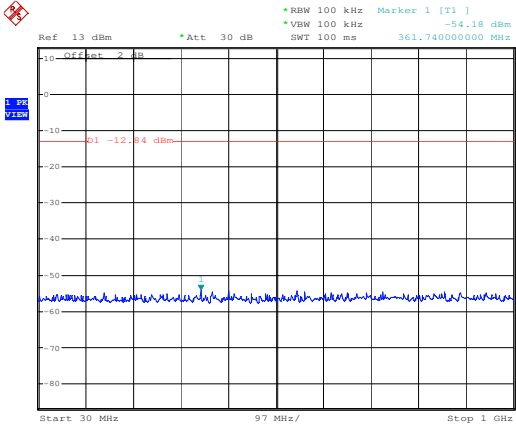
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5.8 RF Antenna Conducted spurious emissions

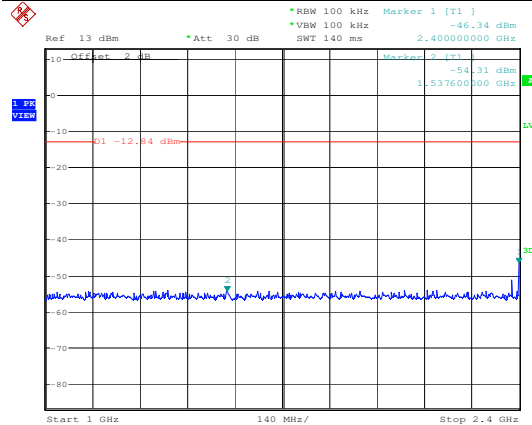
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at 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><i>Remark:</i> Offset the High-Frequency cable loss 2.0dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed



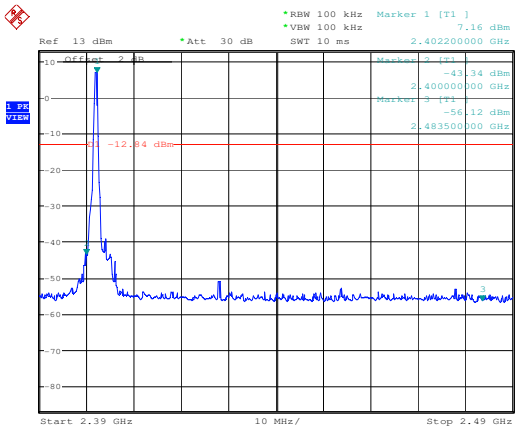
Test mode:	GFSK	Test channel:	Lowest
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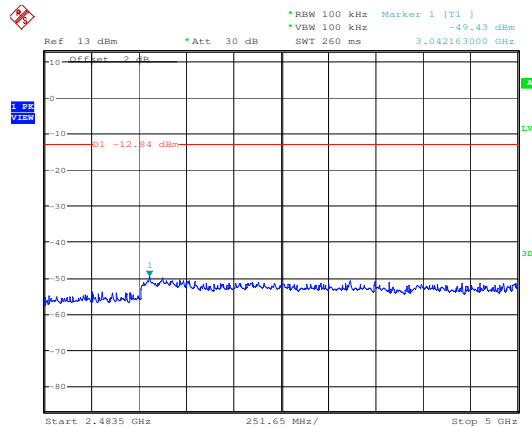
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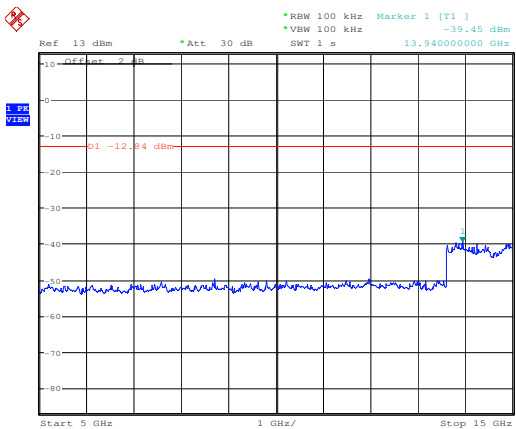
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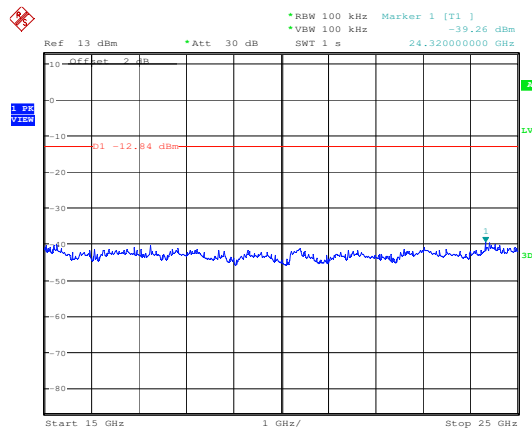
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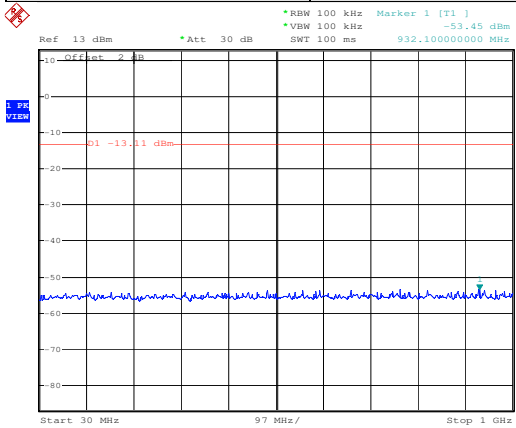
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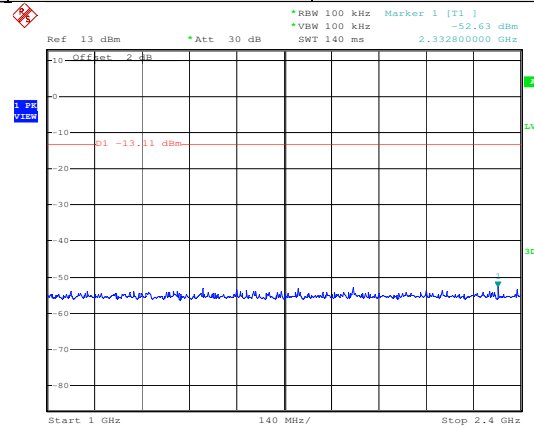
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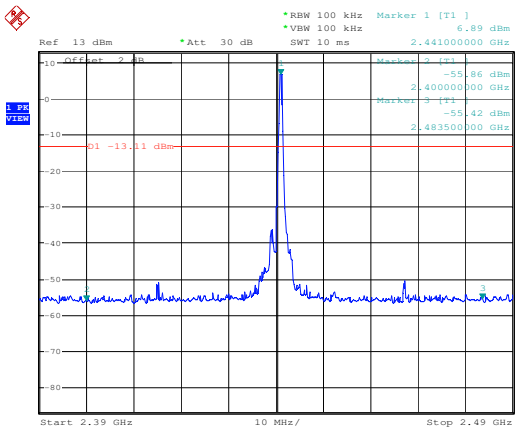
Test mode:	GFSK	Test channel:	Middle
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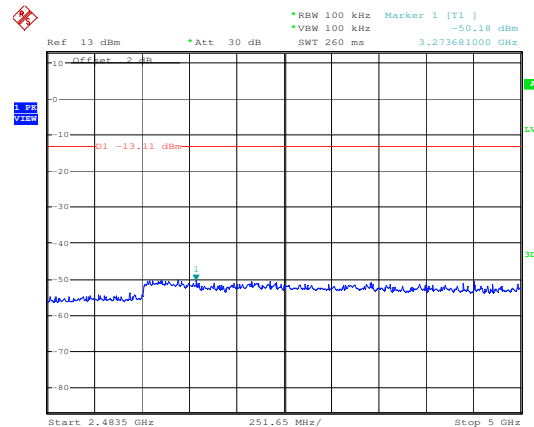
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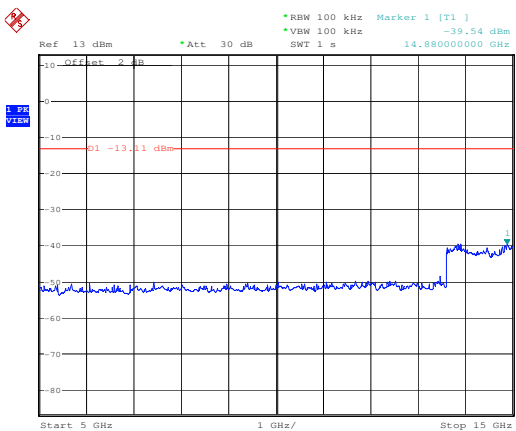
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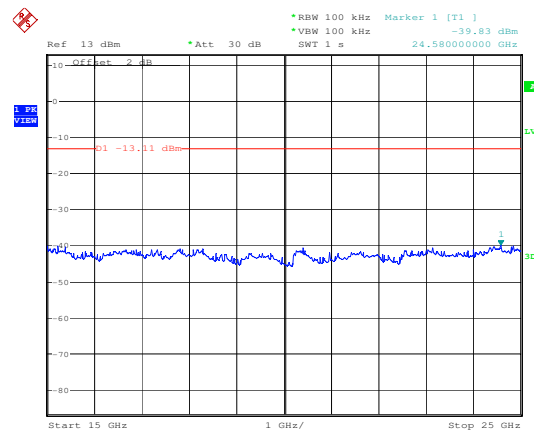
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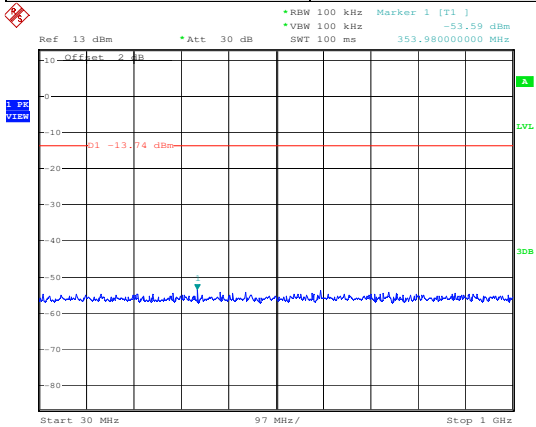


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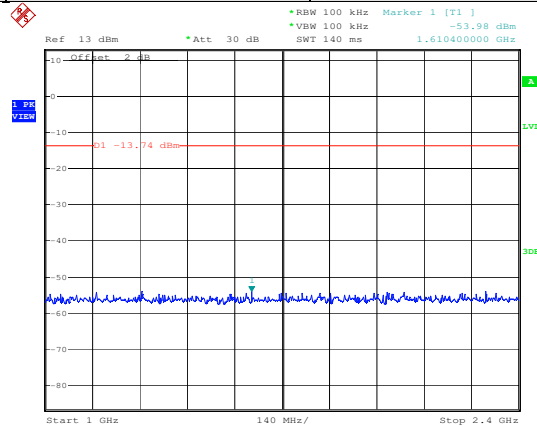
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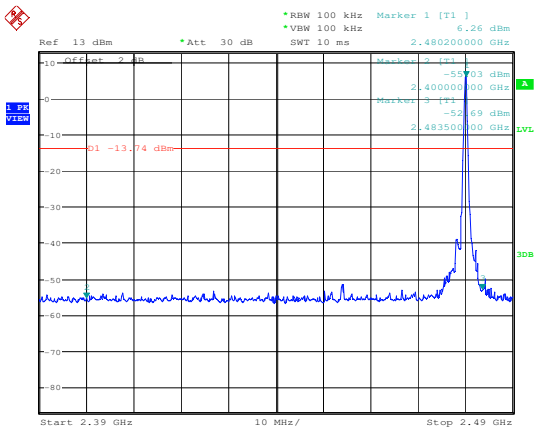
Test mode:	GFSK	Test channel:	Highest
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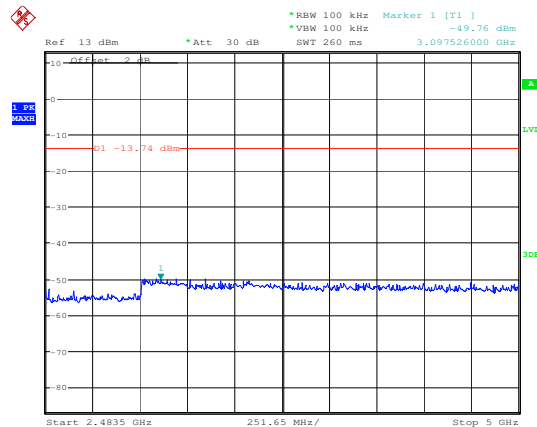
Date: 2.NOV.2009 09:24:49



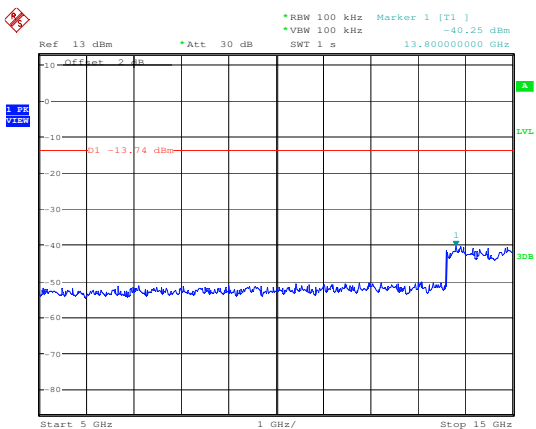
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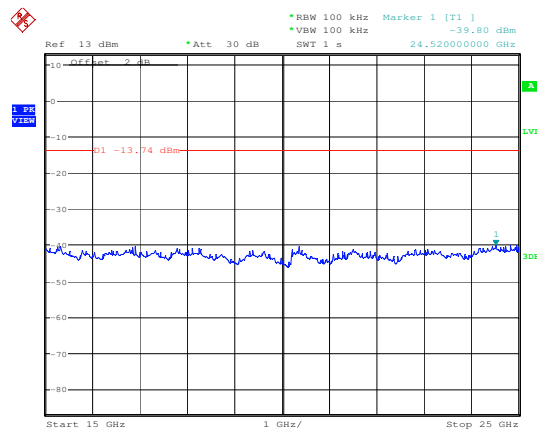
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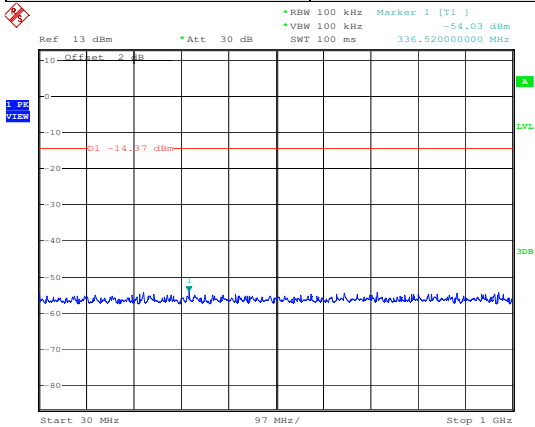


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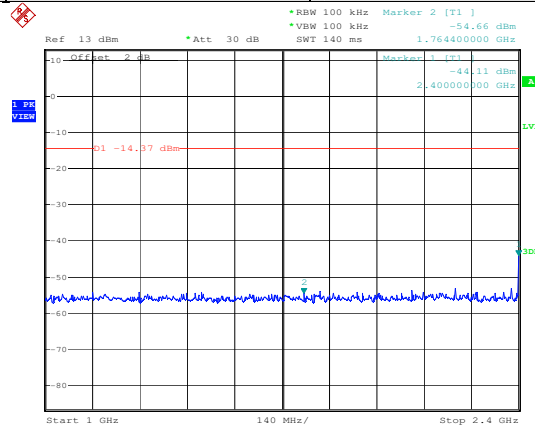
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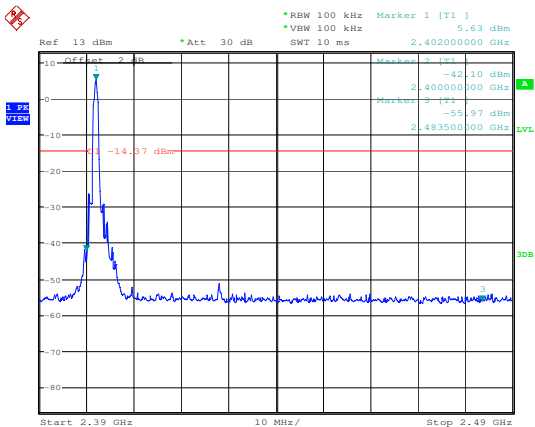
Test mode:	Pi/4QPSK	Test channel:	Lowest
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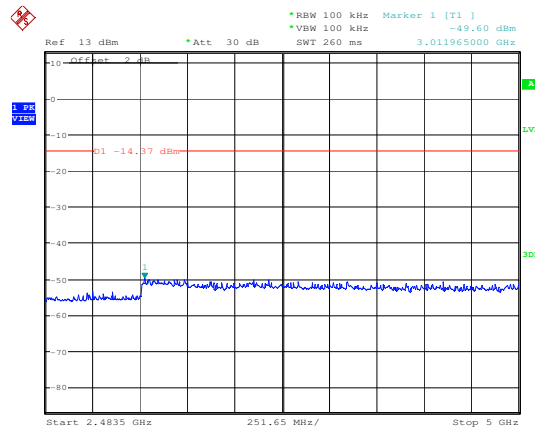
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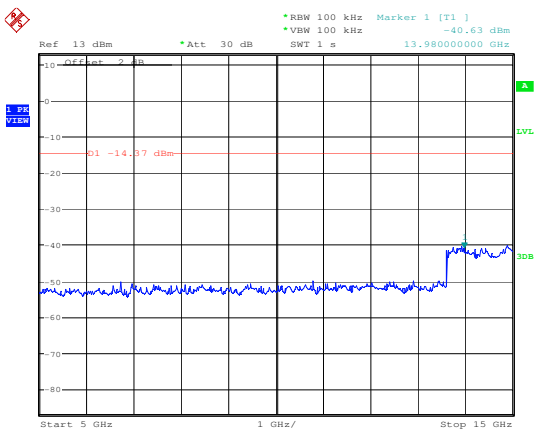
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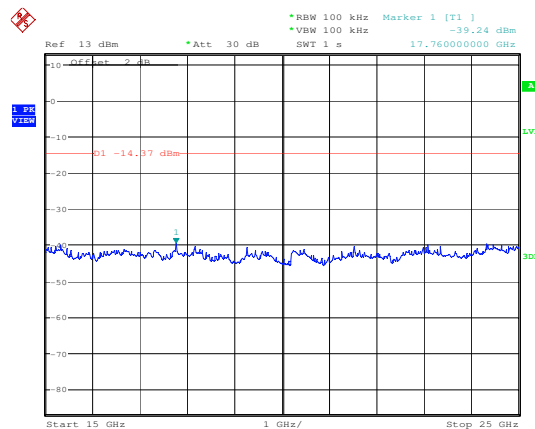
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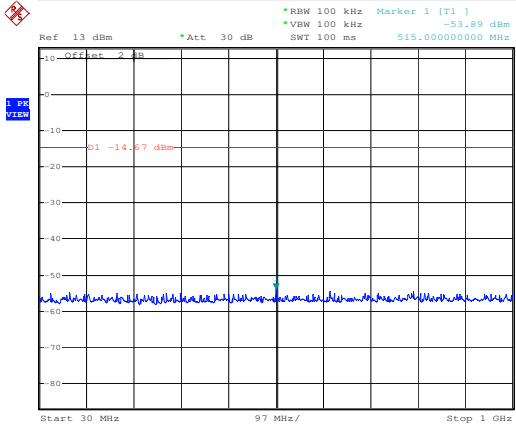
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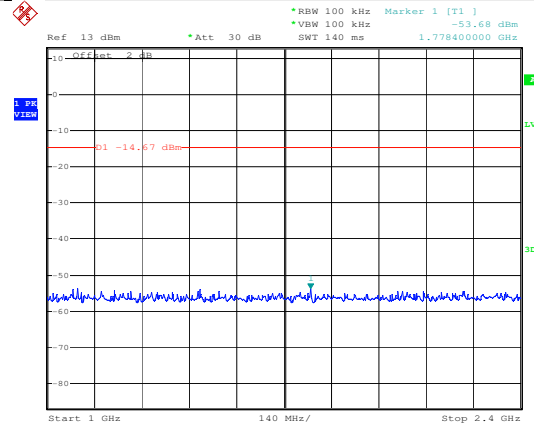
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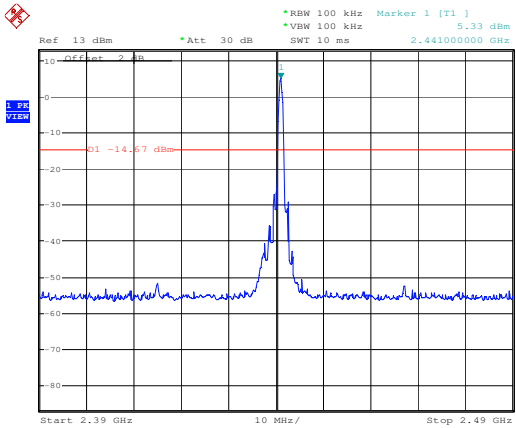
Test mode:	Pi/4QPSK	Test channel:	Middle
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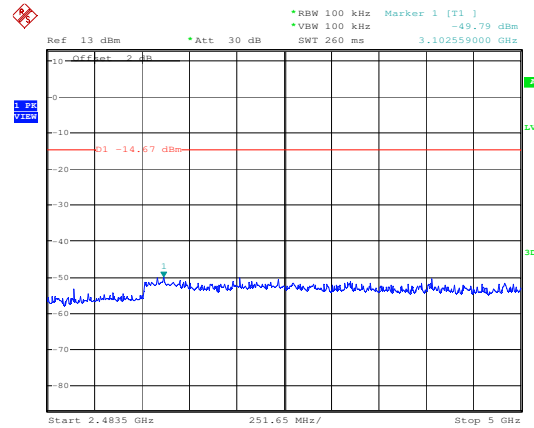
Date: 12.NOV.2009 10:14:13



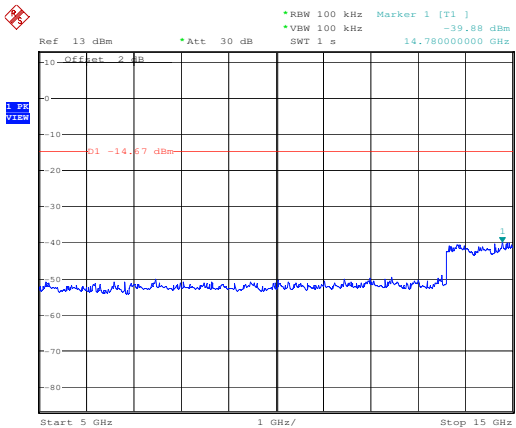
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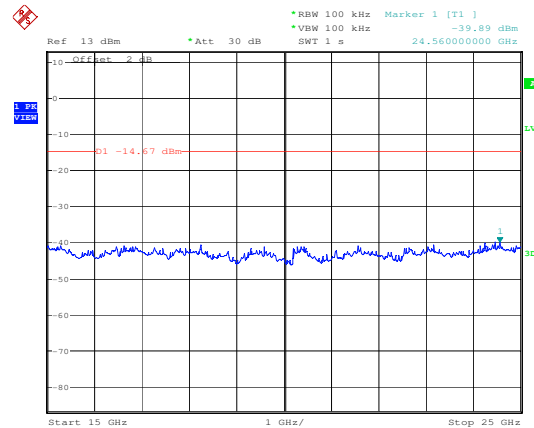
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Date: 12.NOV.2009 10:15:56

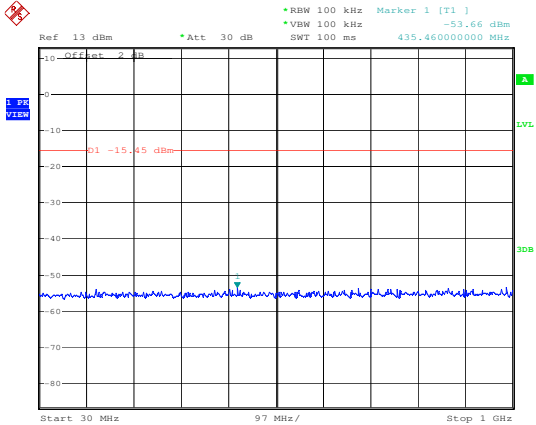


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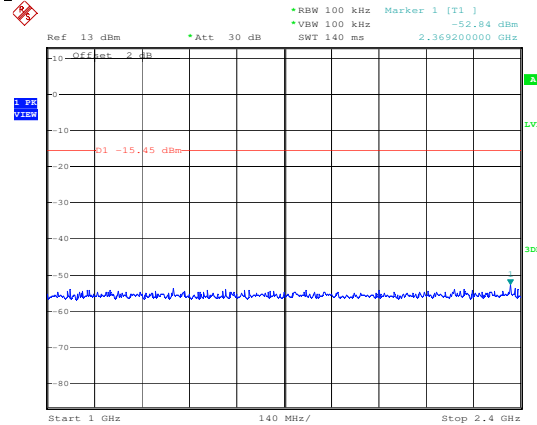
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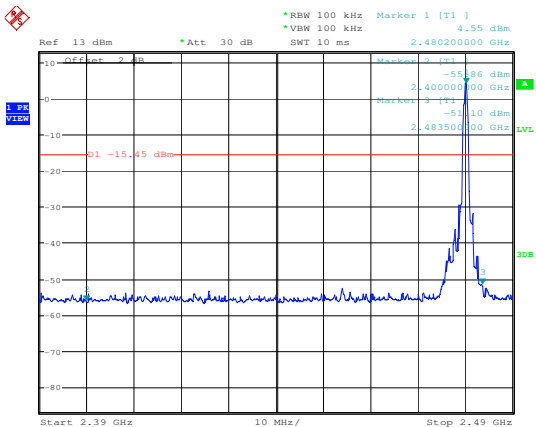
Test mode:	Pi/4QPSK	Test channel:	Highest
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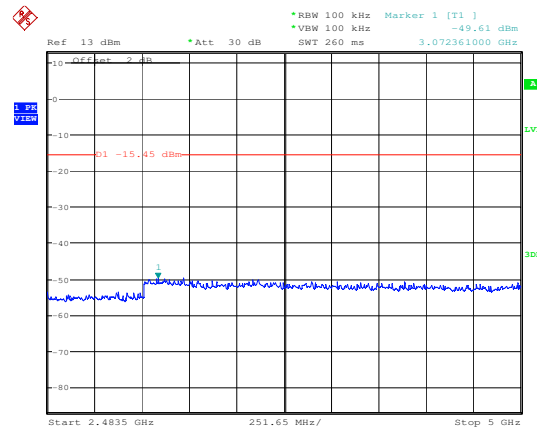
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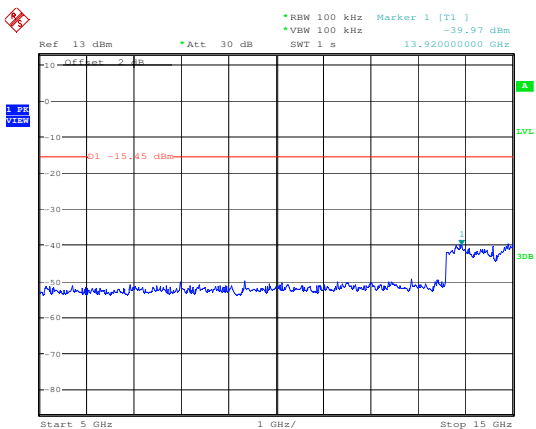
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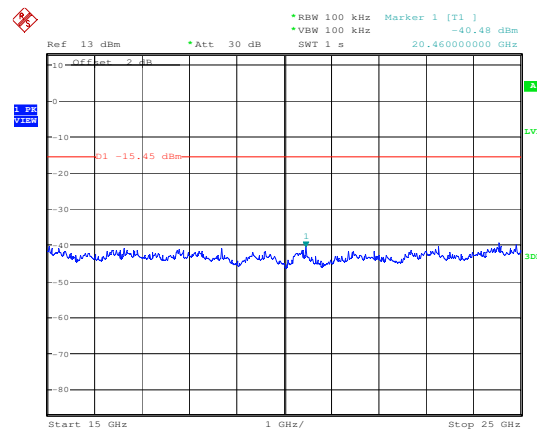
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Date: 12.NOV.2009 10:34:31



Date: 12.NOV.2009 10:35:14

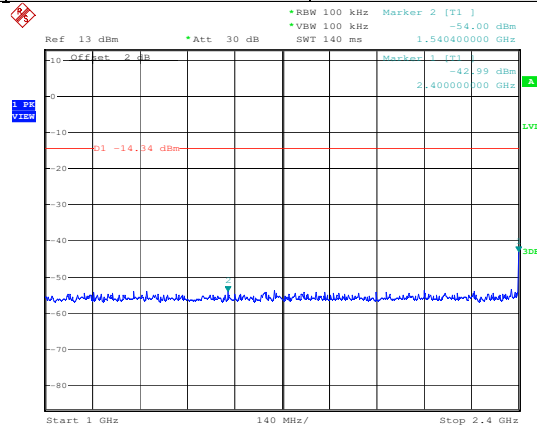
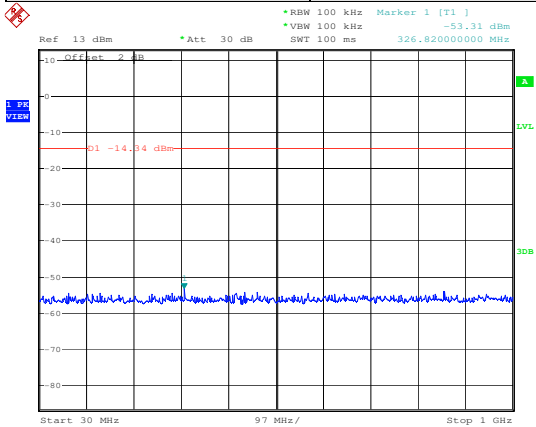


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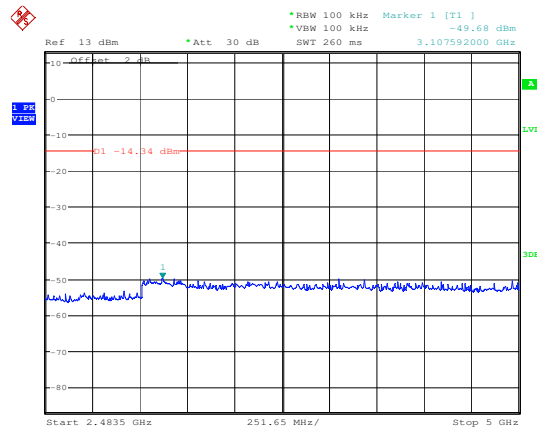
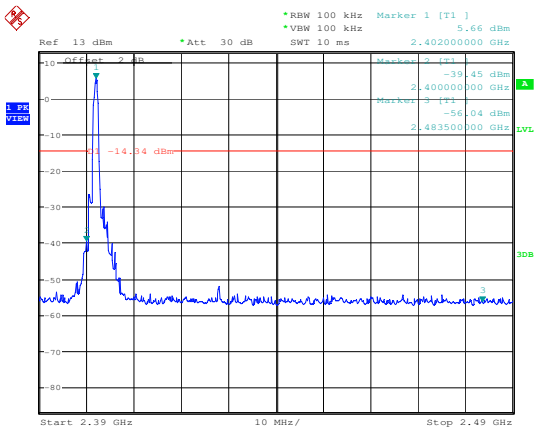


Test mode:	8DPSK	Test channel:	Lowest
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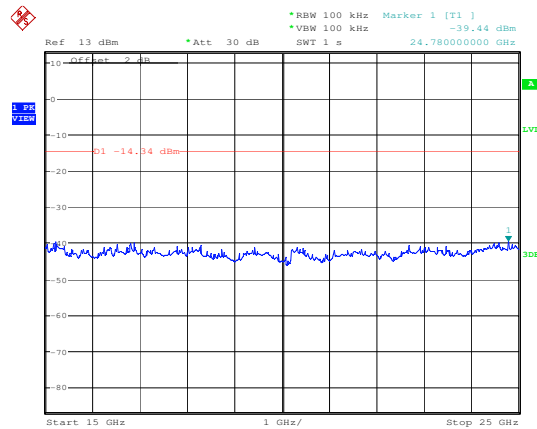
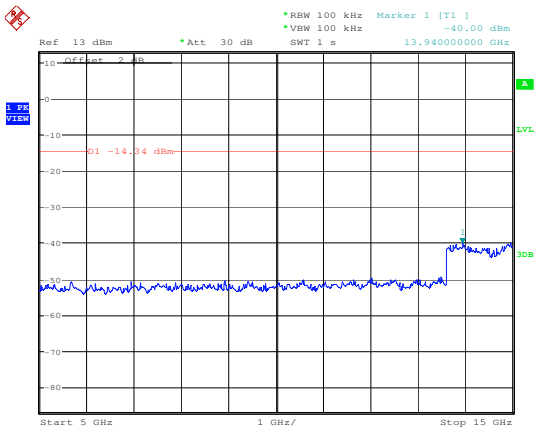
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Date: 12.NOV.2009 11:36:04

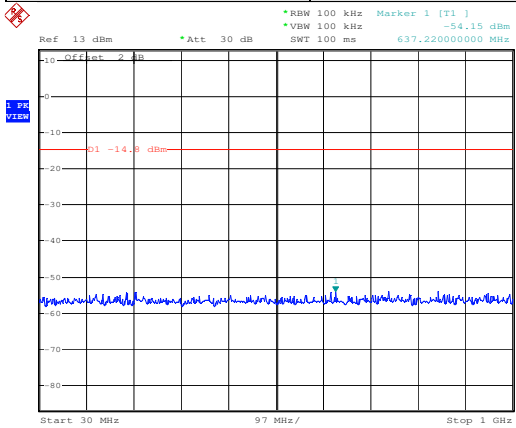


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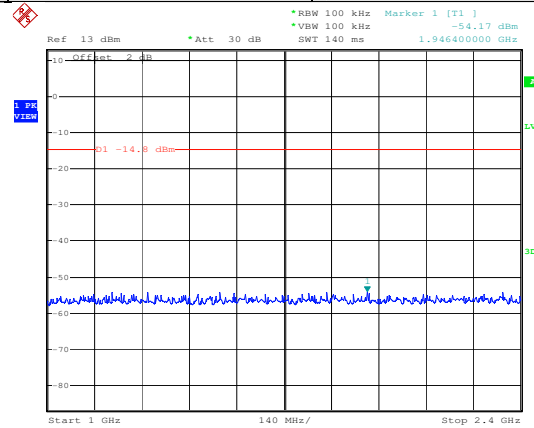
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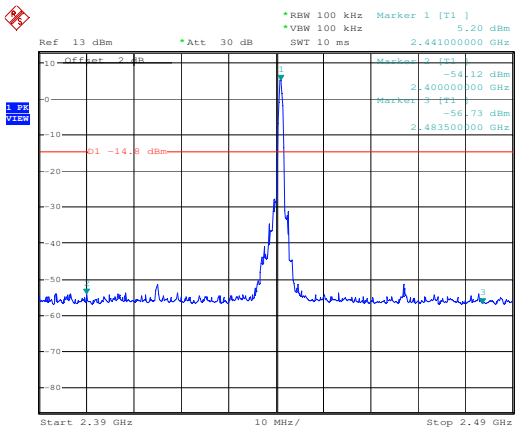
Test mode:	8DPSK	Test channel:	Middle
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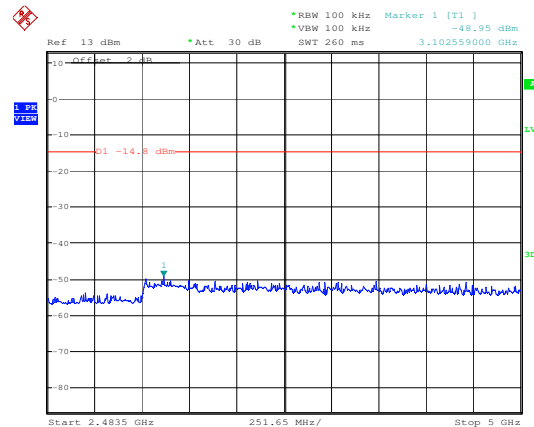
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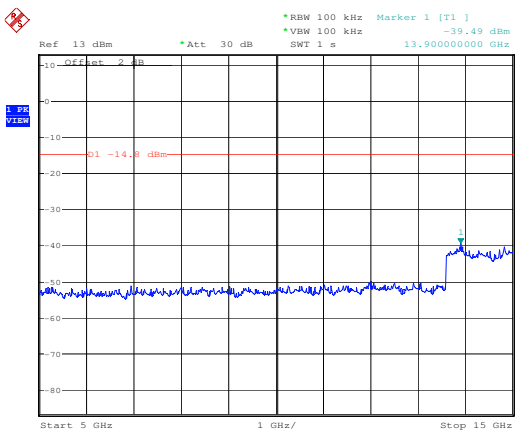
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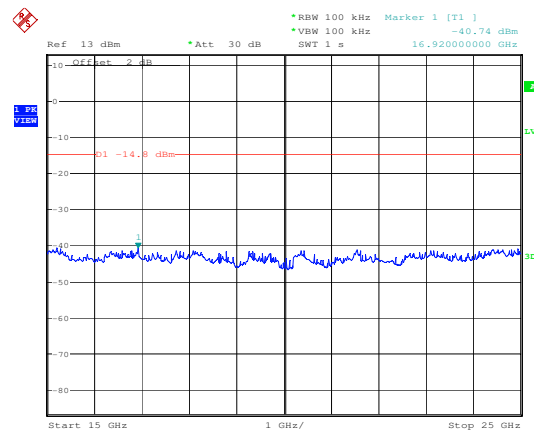
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Date: 12.NOV.2009 12:15:27



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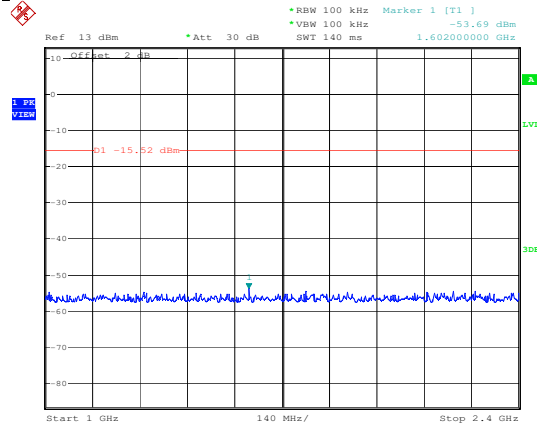
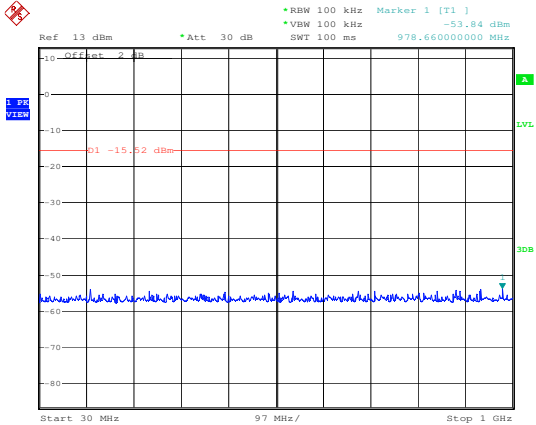


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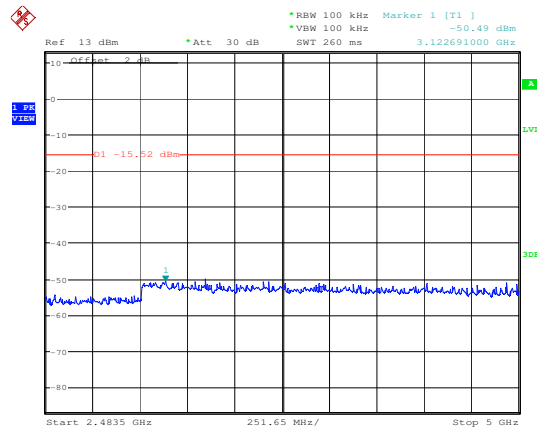
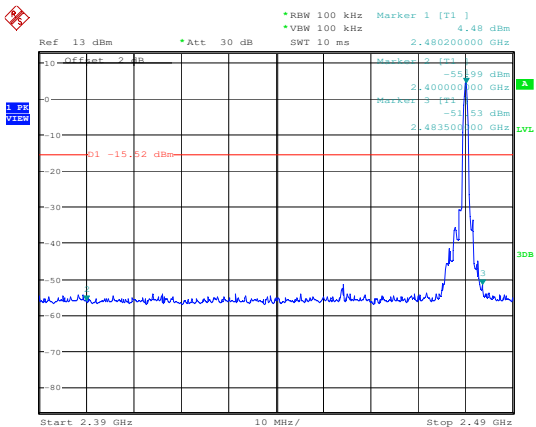


Test mode:	8DPSK	Test channel:	Highest
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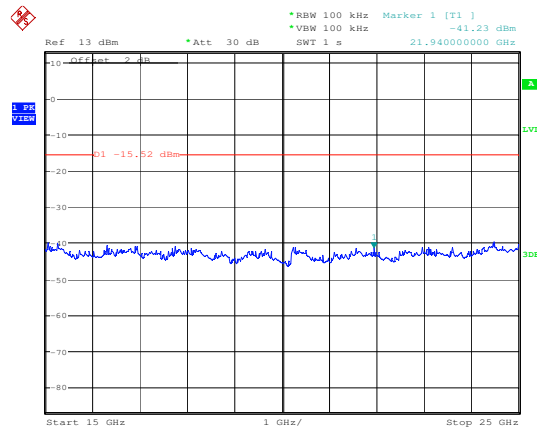
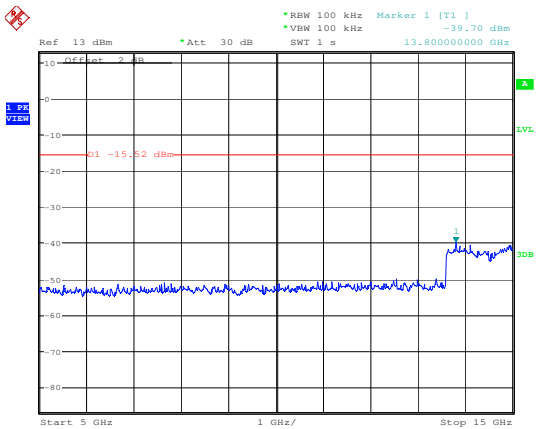
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Date: 12.NOV.2009 13:27:54

Date: 12.NOV.2009 13:29:30

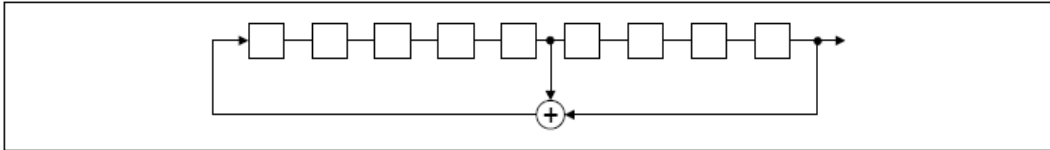
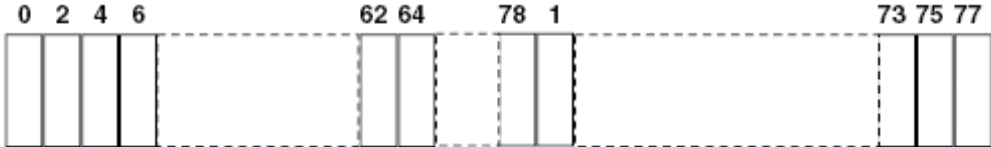


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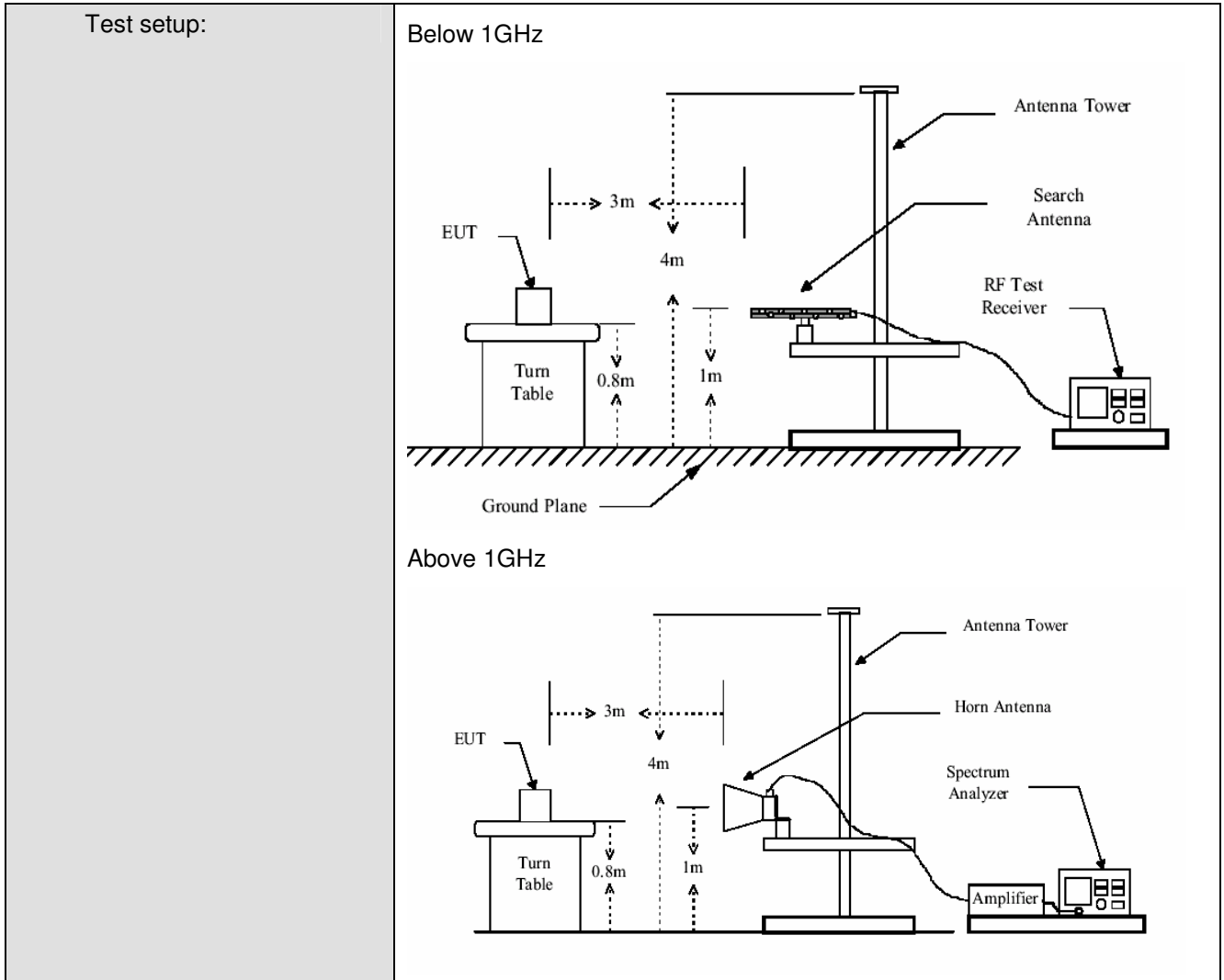
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5.9 Pseudorandom Frequency Hopping Sequence

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>	

5.10 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 , 15.205 and 15.247(d)																				
Test Method:	ANSI C63.4: 2003																				
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 rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <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 rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <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
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:	<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. 																				
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:

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



5.10.1 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
148.340	1.32	8.86	27.47	47.38	30.09	43.50	-13.41	Vertical
159.980	1.34	9.60	27.38	54.99	38.55	43.50	-4.95	Vertical
180.350	1.37	9.91	27.26	51.07	35.09	43.50	-8.41	Vertical
211.390	1.47	10.81	27.09	53.56	38.75	43.50	-4.75	Vertical
233.700	1.59	11.79	26.99	46.94	33.33	46.00	-12.67	Vertical
264.740	1.74	12.61	26.85	46.15	33.65	46.00	-12.35	Vertical
62.980	0.80	7.11	28.03	49.60	29.48	40.00	-10.52	Horizontal
159.977	1.34	9.60	27.38	58.99	42.55	43.50	-0.95	Horizontal
213.301	1.48	10.89	27.08	57.00	42.29	43.50	-1.21	Horizontal
233.700	1.59	11.79	26.99	55.30	41.69	46.00	-4.31	Horizontal
254.070	1.69	12.40	26.90	54.68	41.87	46.00	-4.13	Horizontal
361.740	2.10	15.68	27.17	49.25	39.86	46.00	-6.14	Horizontal

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

5.10.2 Transmitter emission above 1GHz

Test mode:		GFSK		Test channel:		Lowest		Remark:		Peak
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		
2390	6.28	29.98	39.03	39.00	36.23	74.00	-37.77	Vertical		
2400	6.34	30.03	38.87	40.00	37.50	74.00	-36.50	Vertical		
4804	9.36	34.25	41.53	44.04	46.12	74.00	-27.88	Vertical		
7206	13.38	37.23	40.98	43.29	52.92	74.00	-21.08	Vertical		
9608	13.39	37.99	37.56	37.91	51.73	74.00	-22.27	Vertical		
12010	16.45	39.10	39.09	34.67	51.13	74.00	-22.87	Vertical		
14412	17.44	41.39	44.77	34.35	48.41	74.00	-25.59	Vertical		
16814	18.96	42.14	39.54	36.89	58.45	74.00	-15.55	Vertical		
2390	6.28	29.98	39.03	39.00	43.23	74.00	-30.77	Horizontal		
2400	6.34	30.03	38.87	49.00	46.50	74.00	-27.50	Horizontal		
4804	9.36	34.25	41.53	45.86	47.94	74.00	-26.06	Horizontal		
7206	13.38	37.23	40.98	39.79	49.42	74.00	-24.58	Horizontal		
9608	13.39	37.99	37.56	35.35	49.17	74.00	-24.83	Horizontal		
12010	16.45	39.10	39.09	34.37	50.83	74.00	-23.17	Horizontal		
14412	17.44	41.39	44.77	34.58	48.64	74.00	-25.36	Horizontal		
16814	18.96	42.14	39.54	28.07	49.63	74.00	-24.37	Horizontal		

Test mode:		GFSK		Test channel:		Lowest		Remark:		Average
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Polarization		
2390	6.28	29.98	39.03	34.00	31.23	54.00	-22.77	Vertical		
2400	6.34	30.03	38.87	37.00	34.50	54.00	-19.50	Vertical		
4804	9.36	34.25	41.53	35.00	37.08	54.00	-16.92	Vertical		
7206	13.38	37.23	40.98	34.27	43.90	54.00	-10.10	Vertical		
9608	13.39	37.99	37.56	29.01	42.83	54.00	-11.17	Vertical		
12010	16.45	39.10	39.09	26.88	43.34	54.00	-10.66	Vertical		
14412	17.44	41.39	44.77	26.98	41.04	54.00	-12.96	Vertical		
16814	18.96	42.14	39.54	23.77	45.33	54.00	-8.67	Vertical		
2390	6.28	29.98	39.03	37.00	34.23	54.00	-19.77	Horizontal		
2400	6.34	30.03	38.87	38.00	35.50	54.00	-18.50	Horizontal		
4804	9.36	34.25	41.53	38.13	40.21	54.00	-13.79	Horizontal		
7206	13.38	37.23	40.98	35.59	45.22	54.00	-8.78	Horizontal		
9608	13.39	37.99	37.56	30.54	44.36	54.00	-9.64	Horizontal		
12010	16.45	39.10	39.09	28.11	44.57	54.00	-9.43	Horizontal		
14412	17.44	41.39	44.77	29.10	43.16	54.00	-10.84	Horizontal		
16814	18.96	42.14	39.54	22.06	43.62	54.00	-10.38	Horizontal		

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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 (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit (dB)	Polarization
4882	10.57	34.35	40.33	40.90	45.49	74.00	-28.51	Vertical
7323	12.91	37.31	40.40	38.48	48.30	74.00	-25.70	Vertical
9764	13.89	38.03	37.94	34.75	48.73	74.00	-25.27	Vertical
12205	17.95	39.23	39.30	32.25	50.13	74.00	-23.87	Vertical
14646	17.18	41.27	45.96	31.70	44.19	74.00	-29.81	Vertical
17087	19.55	42.62	39.41	26.87	49.63	74.00	-24.37	Vertical
4882	10.57	34.35	40.33	41.48	46.07	74.00	-27.93	Horizontal
7323	12.91	37.31	40.40	39.74	49.56	74.00	-24.44	Horizontal
9764	13.89	38.03	37.94	38.12	52.10	74.00	-21.90	Horizontal
12205	17.95	39.23	39.30	36.72	54.60	74.00	-19.40	Horizontal
14646	17.18	41.27	45.96	37.26	49.75	74.00	-24.25	Horizontal
17087	19.55	42.62	39.41	35.06	57.82	74.00	-16.18	Horizontal

Test mode:	GFSK	Test channel:	Middle	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit (dB)	Polarization
4882	10.57	34.35	40.33	35.45	40.04	54.00	-13.96	Vertical
7323	12.91	37.31	40.40	32.16	41.98	54.00	-12.02	Vertical
9764	13.89	38.03	37.94	28.59	42.57	54.00	-11.43	Vertical
12205	17.95	39.23	39.30	28.89	46.77	54.00	-7.23	Vertical
14646	17.18	41.27	45.96	28.43	40.92	54.00	-13.08	Vertical
17087	19.55	42.62	39.41	21.97	44.73	54.00	-9.27	Vertical
4882	10.57	34.35	40.33	32.27	36.86	54.00	-17.14	Horizontal
7323	12.91	37.31	40.40	31.50	41.32	54.00	-12.68	Horizontal
9764	13.89	38.03	37.94	29.11	43.09	54.00	-10.91	Horizontal
12205	17.95	39.23	39.30	27.50	45.38	54.00	-8.62	Horizontal
14646	17.18	41.27	45.96	27.36	39.85	54.00	-14.15	Horizontal
17087	19.55	42.62	39.41	20.00	42.76	54.00	-11.24	Horizontal

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Test mode:		GFSK		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit (dB)	Polarization			
2483.5	6.22	30.32	39.53	40.00	37.01	74.00	-36.99	Vertical			
2500	5.76	30.37	39.15	37.00	33.98	74.00	-40.02	Vertical			
4960	10.43	34.45	41.03	43.23	47.08	74.00	-26.92	Vertical			
7440	12.72	37.37	40.01	43.62	53.70	74.00	-20.30	Vertical			
9920	14.24	38.08	37.78	40.04	54.58	74.00	-19.42	Vertical			
12400	17.55	39.34	39.48	40.54	57.95	74.00	-16.05	Vertical			
14880	16.69	41.16	46.61	41.54	52.78	74.00	-21.22	Vertical			
17360	19.75	42.92	39.62	41.09	64.14	74.00	-9.86	Vertical			
2483.5	6.22	30.32	39.53	45.00	42.01	74.00	-31.99	Horizontal			
2500	5.76	30.37	39.15	46.00	42.98	74.00	-31.02	Horizontal			
4960	10.43	34.45	41.03	41.26	45.11	74.00	-28.89	Horizontal			
7440	12.72	37.37	40.01	39.84	49.92	74.00	-24.08	Horizontal			
9920	14.24	38.08	37.78	35.41	49.95	74.00	-24.05	Horizontal			
12400	17.55	39.34	39.48	28.63	46.04	74.00	-27.96	Horizontal			
14880	16.69	41.16	46.61	33.76	45.00	74.00	-29.00	Horizontal			
17360	19.75	42.92	39.62	24.35	47.40	74.00	-26.60	Horizontal			

Test mode:		GFSK		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit (dB)	Polarization			
2483.5	6.22	30.32	39.53	35.00	32.01	54.00	-21.99	Vertical			
2500	5.76	30.37	39.15	32.00	28.98	54.00	-25.02	Vertical			
4960	10.43	34.45	41.03	33.60	37.45	54.00	-16.55	Vertical			
7440	12.72	37.37	40.01	32.65	42.73	54.00	-11.27	Vertical			
9920	14.24	38.08	37.78	31.02	45.56	54.00	-8.44	Vertical			
12400	17.55	39.34	39.48	30.45	47.86	54.00	-6.14	Vertical			
14880	16.69	41.16	46.61	31.93	43.17	54.00	-10.83	Vertical			
17360	19.75	42.92	39.62	26.27	49.32	54.00	-4.68	Vertical			
2483.5	6.22	30.32	39.53	41.00	38.01	54.00	-15.99	Horizontal			
2500	5.76	30.37	39.15	42.00	38.98	54.00	-15.02	Horizontal			
4960	10.43	34.45	41.03	38.11	41.96	54.00	-12.04	Horizontal			
7440	12.72	37.37	40.01	33.23	43.31	54.00	-10.69	Horizontal			
9920	14.24	38.08	37.78	31.02	45.56	54.00	-8.44	Horizontal			
12400	17.55	39.34	39.48	26.16	43.57	54.00	-10.43	Horizontal			
14880	16.69	41.16	46.61	30.23	41.47	54.00	-12.53	Horizontal			
17360	19.75	42.92	39.62	22.08	45.13	54.00	-8.87	Horizontal			

Remark.: The disturbance above 17GHz 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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