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Report No.: SZEMO10110714701
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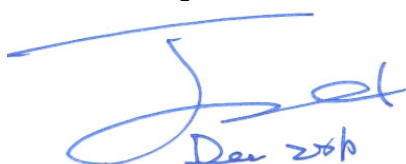
FCC REPORT

Application No: SZEMO101107147RF
Applicant: Nokia (China) Investment Co., Ltd.
Product Name: Bluetooth headset
Operation Frequency: 2.402GHz to 2.480GHz
FCC ID: QTLBH-217
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt: 2010-11-23
Date of Test: 2010-11-26
Date of Issue: 2010-12-03

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)	Passed
AC Power Line Conducted Emission	15.207	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
Pseudorandom 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

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.

Remark:

This report was based on the report SZEMO10070411301, just change information as show as below:

1. HW:2.0 (old) HW:2.1(new)
2. Retest the Radiated Emission, AC Power Line Conducted Emission and Conducted Peak Output Power.
3. Speaker, Microphone, EEPROM

	Original component		component after change	
	Supplier	BYD P/N(SAP)	Supplier	BYD P/N(SAP)
Speaker	YINPIN	10360758-00	MINAMI	10385085-00
Microphone	MINAMI	10323204-00	QUANSHENG	10433701-00
EEPROM	ST	10311402-00	ATMEL	10333328-00

After checking the new sample which receipted on 23 November 2010, there was changed Speaker, Microphone, EEPROM, so in this report the Radiated Emission, AC Power Line Conducted Emission and Conducted Peak Output Power were performed renewedly.



4 General Information

4.1 Client Information

Applicant:	Nokia (China) Investment Co., Ltd.
Address of Applicant:	Nokia China, Beijing, Kaifagu-Donghuan Zhonglu Building: R&D Wing, 7th Floor, BDA Building 2-No.5, Donghuan Zhong Rd.

4.2 General Description of E.U.T.

Product Name:	Bluetooth headset
Trade Mark:	NOKIA
Item No.:	BH-217
	The model "BH-217" has two EEPROM: 256KB & 512KB, and both of the EEPROM are tested in this report.
Bluetooth Version:	2.1+EDR
HW:	2.1
SW:	4.5
MV:	3.0
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	1.73dBi
Power supply:	DC3.7V (Lithium Battery)
AC Adapter:	Input:AC100-240V/50-60Hz/65mA/6,5VA Output:DC 5V/350mA
Power Code	< 3m



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

Note:

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

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



4.3 E.U.T Operation mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Bluetooth mode:	Keep the EUT communicate with other Bluetooth device and exchange data
Charge + Bluetooth mode:	Keep the EUT communicate with other Bluetooth device and exchange data, while adapter charge to EUT.
Charge mode:	Keep the adapter charge to EUT.
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 (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	2010-11-05	2011-11-05
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	2010-11-09	2011-11-09
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2010-11-09	2011-11-09
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2010-11-09	2011-11-09
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	2010-10-27	2011-10-27
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

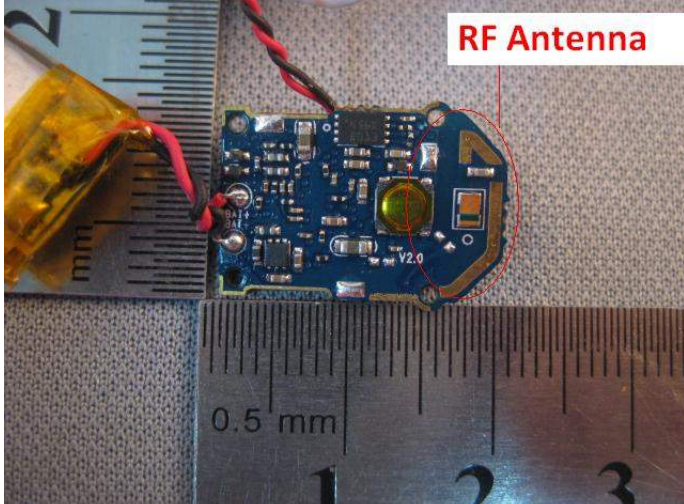
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2010-06-02	2011-06-02
3	Two-Line V-Network	Rohde & Schwarz	ENV216	SEL0152	2009-10-22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



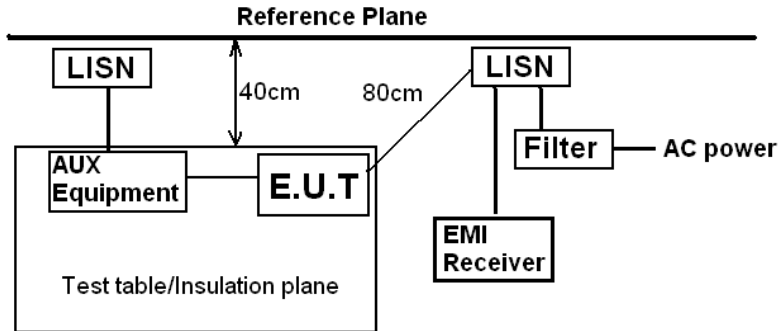
RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2009-10-22	2010-10-22
2	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18

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 configuration of the antenna attach to the internal photos. The best case gain of the antenna is 1.73dBi.</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:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.		
Test setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 4.7 for details		
Test mode:	Charge mode, Charge+ Bluetooth mode		
Test results:	Passed		

Measurement Data

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

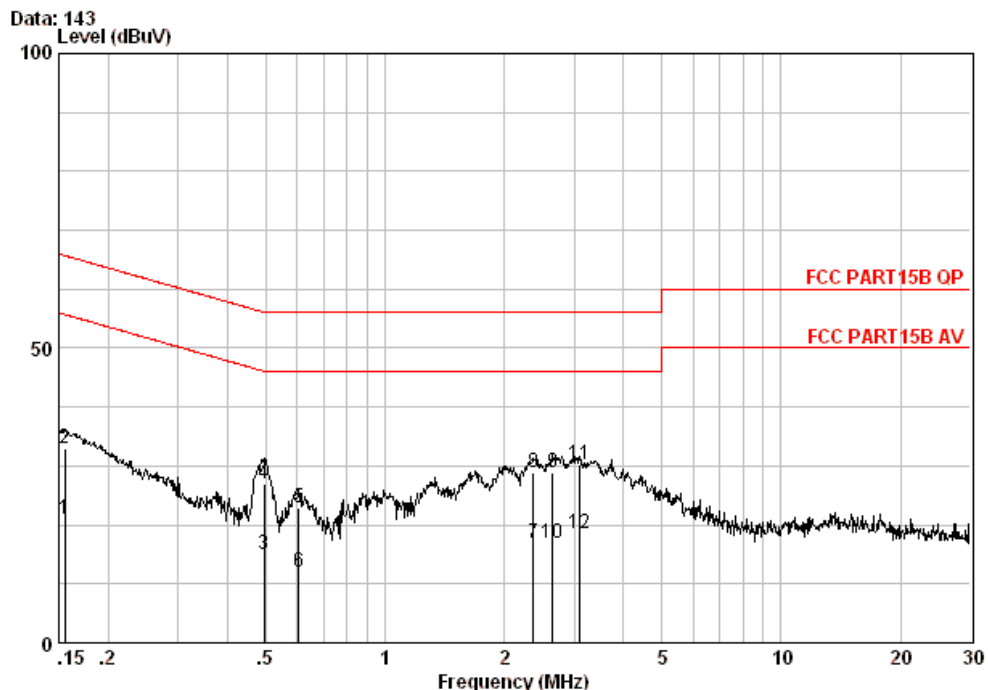
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



For original report: SZEMO10070411301

Charge mode:

Live line:



Site : Shielding Room
Condition : FCC PART15B QP CE LINE
EUT : Bluetooth Headset
JOB NO. : 4113RF
MODE : Charge

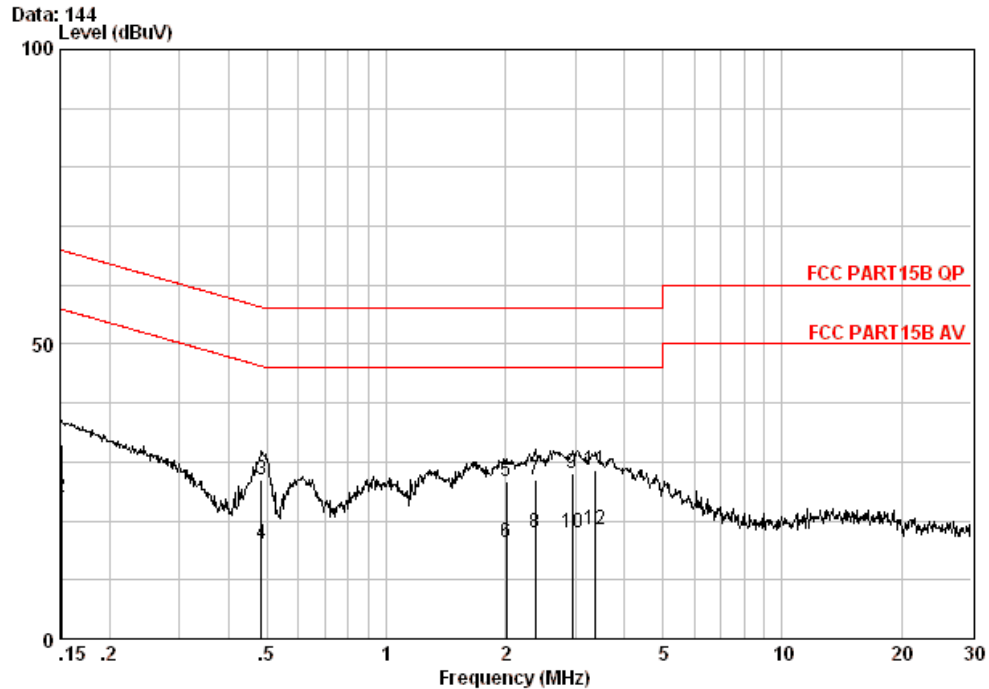
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15500	0.04	-0.05	21.01	21.00	55.73	-34.73	Average
2	0.15500	0.04	-0.05	33.01	33.00	65.73	-32.73	QP
3	0.49600	0.06	-0.04	14.98	15.00	46.07	-31.07	Average
4	0.49600	0.06	-0.04	26.98	27.00	56.07	-29.07	QP
5	0.60400	0.06	-0.05	22.99	23.00	56.00	-33.00	QP
6	0.60400	0.06	-0.05	11.99	12.00	46.00	-34.00	Average
7	2.370	0.13	-0.07	16.94	17.00	46.00	-29.00	Average
8	2.370	0.13	-0.07	28.94	29.00	56.00	-27.00	QP
9	2.650	0.13	-0.07	28.94	29.00	56.00	-27.00	QP
10	2.650	0.13	-0.07	16.94	17.00	46.00	-29.00	Average
11	3.090	0.14	-0.08	30.10	30.17	56.00	-25.83	QP
12	3.090	0.14	-0.08	18.50	18.57	46.00	-27.43	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.



Neutral line:



Site : Shielding Room
Condition : FCC PART 15B QP CE NEUTRAL
EUT : Bluetooth Headset
JOB NO. : 4113RF
MODE : Charge

	Freq	Cable	LISN	Read	Level	Limit	Over	
	MHz	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15080	0.04	-0.05	32.95	32.95	65.96	-33.01	QP
2	0.15080	0.04	-0.05	23.87	23.86	55.96	-32.09	Average
3	0.48375	0.06	-0.04	26.99	27.01	56.27	-29.27	QP
4	0.48375	0.06	-0.04	15.97	15.99	46.27	-30.28	Average
5	2.012	0.12	-0.06	26.51	26.57	56.00	-29.43	QP
6	2.012	0.12	-0.06	16.42	16.48	46.00	-29.52	Average
7	2.384	0.13	-0.07	26.99	27.05	56.00	-28.95	QP
8	2.384	0.13	-0.07	17.87	17.93	46.00	-28.07	Average
9	2.946	0.14	-0.08	27.92	27.98	56.00	-28.02	QP
10	2.946	0.14	-0.08	17.83	17.89	46.00	-28.11	Average
11	3.381	0.15	-0.09	28.50	28.56	56.00	-27.44	QP
12	3.381	0.15	-0.09	18.38	18.44	46.00	-27.56	Average

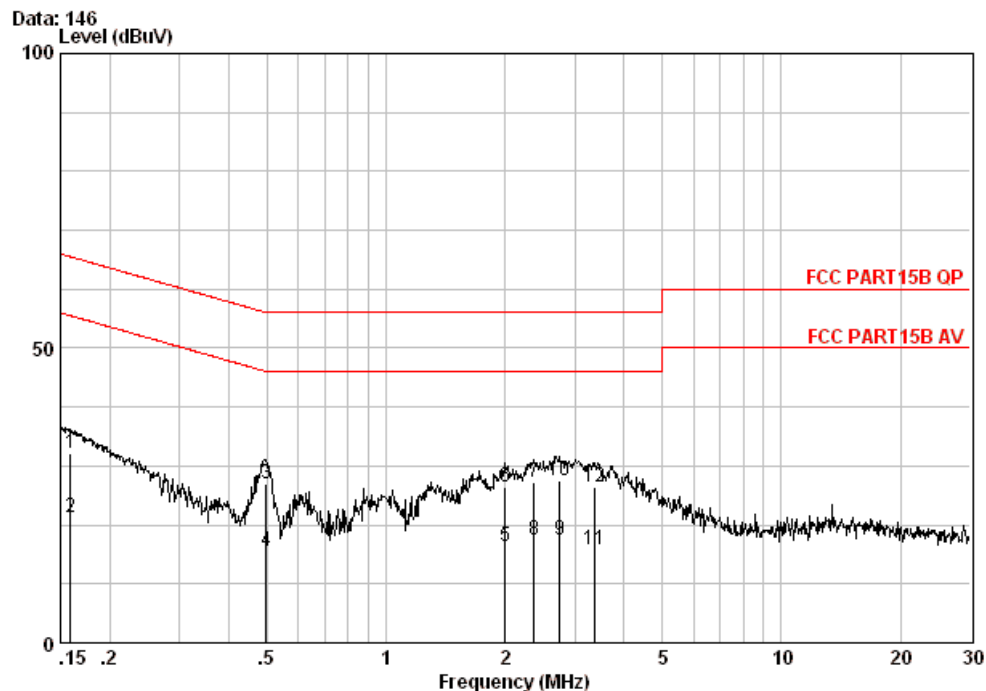
Notes:

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



Charge + Bluetooth mode:

Live line:

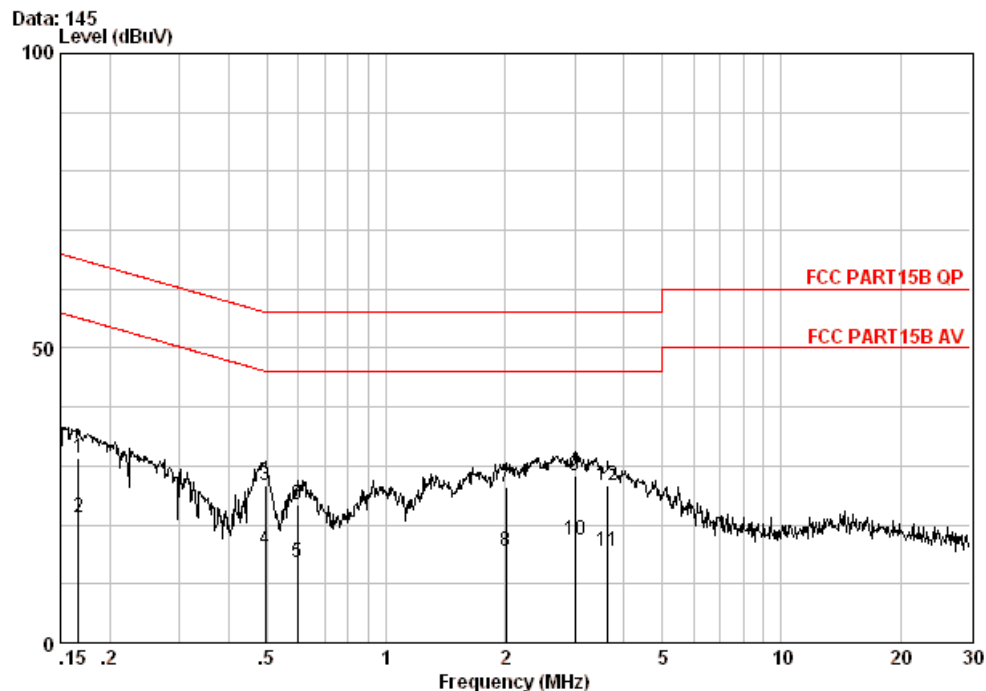


Site : Shielding Room
Condition : FCC PART 15B QP CE LINE
EUT : Bluetooth Headset
JOB NO. : 4113RF
MODE : Charge+Bluetooth

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15900	0.04	-0.05	32.18	32.17	65.52	-33.35	QP
2	0.15900	0.04	-0.05	21.13	21.12	55.52	-34.40	Average
3	0.49673	0.06	-0.04	26.98	27.00	56.05	-29.06	QP
4	0.49673	0.06	-0.04	15.63	15.65	46.05	-30.41	Average
5	2.001	0.12	-0.06	16.26	16.32	46.00	-29.68	Average
6	2.001	0.12	-0.06	26.35	26.41	56.00	-29.59	QP
7	2.371	0.13	-0.07	27.11	27.17	56.00	-28.83	QP
8	2.371	0.13	-0.07	17.32	17.38	46.00	-28.62	Average
9	2.750	0.14	-0.07	17.29	17.35	46.00	-28.65	Average
10	2.750	0.14	-0.07	27.57	27.63	56.00	-28.37	QP
11	3.364	0.15	-0.08	15.62	15.69	46.00	-30.31	Average
12	3.364	0.15	-0.08	26.43	26.50	56.00	-29.50	QP

Notes:

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

**Neutral line:**

Site : Shielding Room
Condition : FCC PART15B QP CE NEUTRAL
EUT : Bluetooth Headset
JOB NO. : 4113RF
MODE : Charge+Bluetooth

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16677	0.04	-0.04	31.25	31.24	65.12	-33.88	QP
2	0.16677	0.04	-0.04	21.35	21.35	55.12	-33.77	Average
3	0.49411	0.06	-0.04	26.65	26.67	56.10	-29.43	QP
4	0.49411	0.06	-0.04	15.72	15.74	46.10	-30.36	Average
5	0.59794	0.06	-0.04	13.59	13.61	46.00	-32.39	Average
6	0.59794	0.06	-0.04	23.46	23.48	56.00	-32.52	QP
7	2.012	0.12	-0.06	26.38	26.43	56.00	-29.57	QP
8	2.012	0.12	-0.06	15.52	15.58	46.00	-30.42	Average
9	3.009	0.14	-0.08	28.28	28.34	56.00	-27.66	QP
10	3.009	0.14	-0.08	17.43	17.49	46.00	-28.51	Average
11	3.642	0.15	-0.09	15.56	15.62	46.00	-30.38	Average
12	3.642	0.15	-0.09	26.65	26.71	56.00	-29.29	QP

Notes:

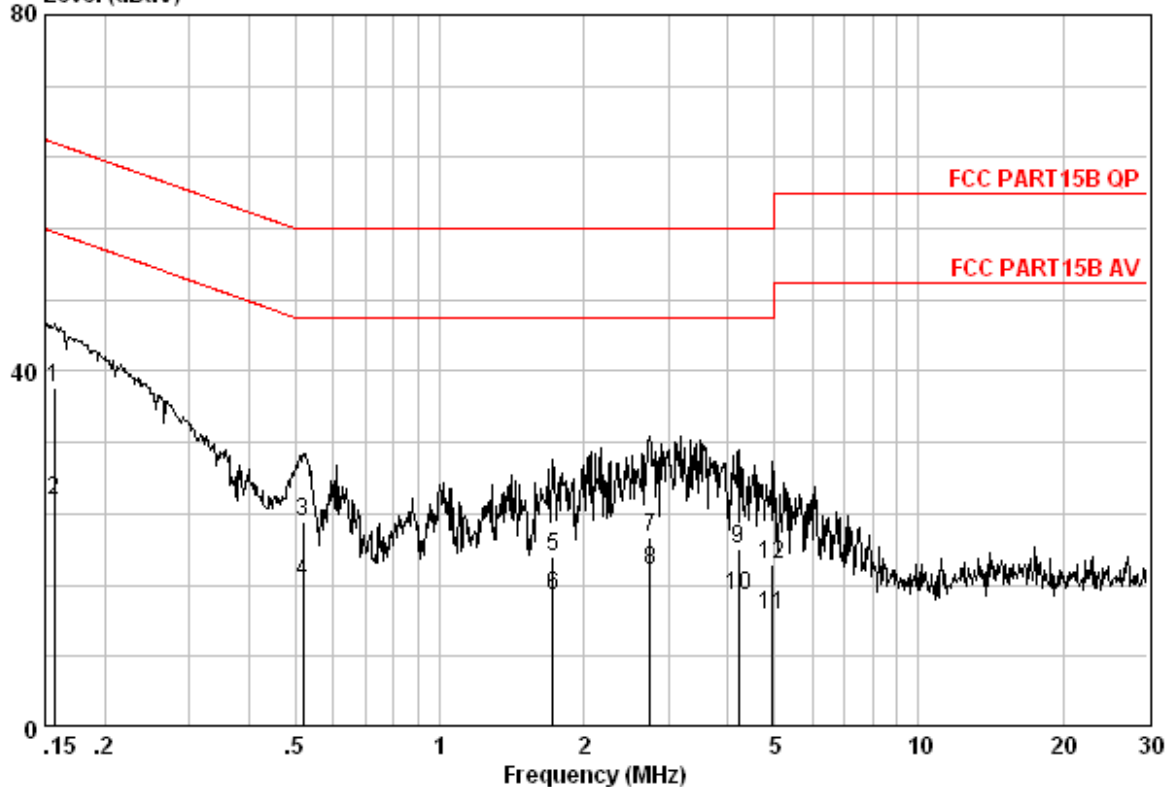
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

For new report:SZEMO10110714701

Charge mode:

Live line:

Data: 165
Level (dBuV)

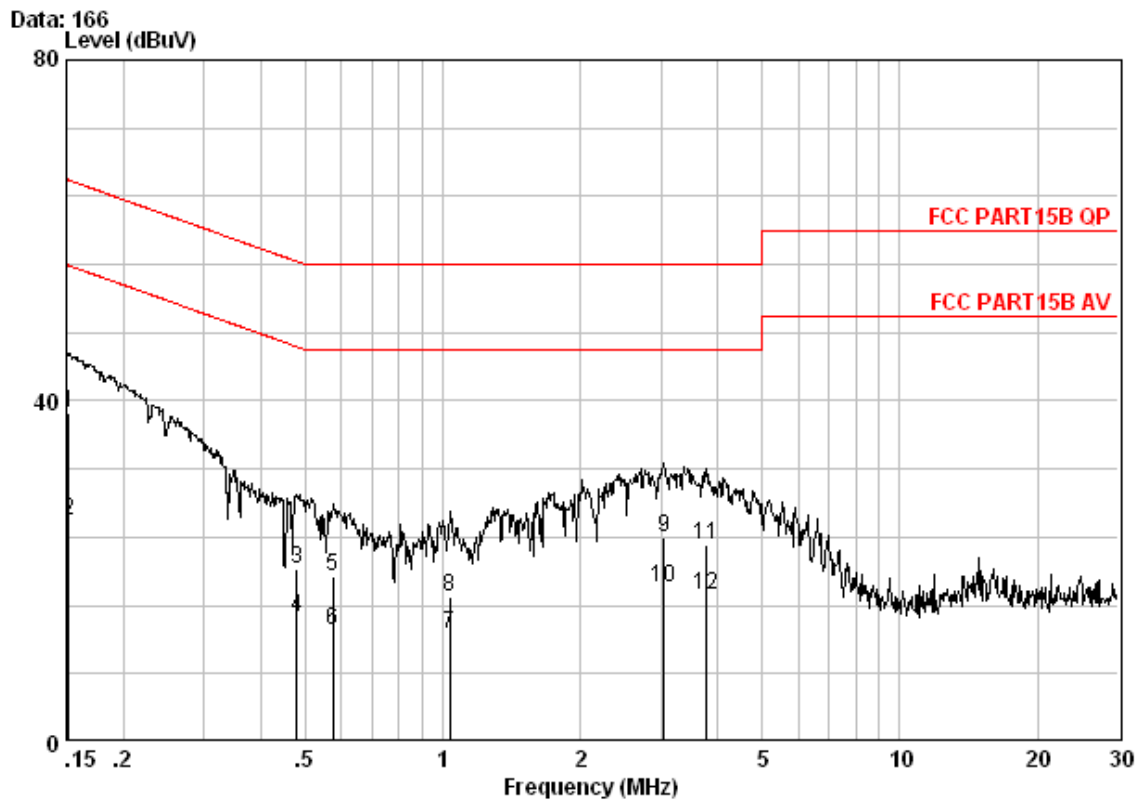


Site : Shielding Room
Condition : FCC PART15B QP CE-20101216 LINE
EUT : Bluetooth Headset
Job No. : 7147RF
Mode : Charge

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15700	0.04	9.60	28.50	38.14	65.62	-27.48	QP
2	0.15700	0.04	9.60	15.90	25.54	55.62	-30.08	Average
3	0.51800	0.06	9.61	13.50	23.17	56.00	-32.83	QP
4	0.51800	0.06	9.61	6.60	16.27	46.00	-29.73	Average
5	1.725	0.11	9.70	9.30	19.11	56.00	-36.89	QP
6	1.725	0.11	9.70	5.00	14.81	46.00	-31.19	Average
7	2.750	0.14	9.73	11.60	21.47	56.00	-34.53	QP
8	2.750	0.14	9.73	7.70	17.57	46.00	-28.43	Average
9	4.201	0.16	9.78	10.10	20.04	56.00	-35.96	QP
10	4.201	0.16	9.78	4.90	14.84	46.00	-31.16	Average
11	4.951	0.17	9.80	2.60	12.57	46.00	-33.43	Average
12	4.951	0.17	9.80	8.30	18.27	56.00	-37.73	QP

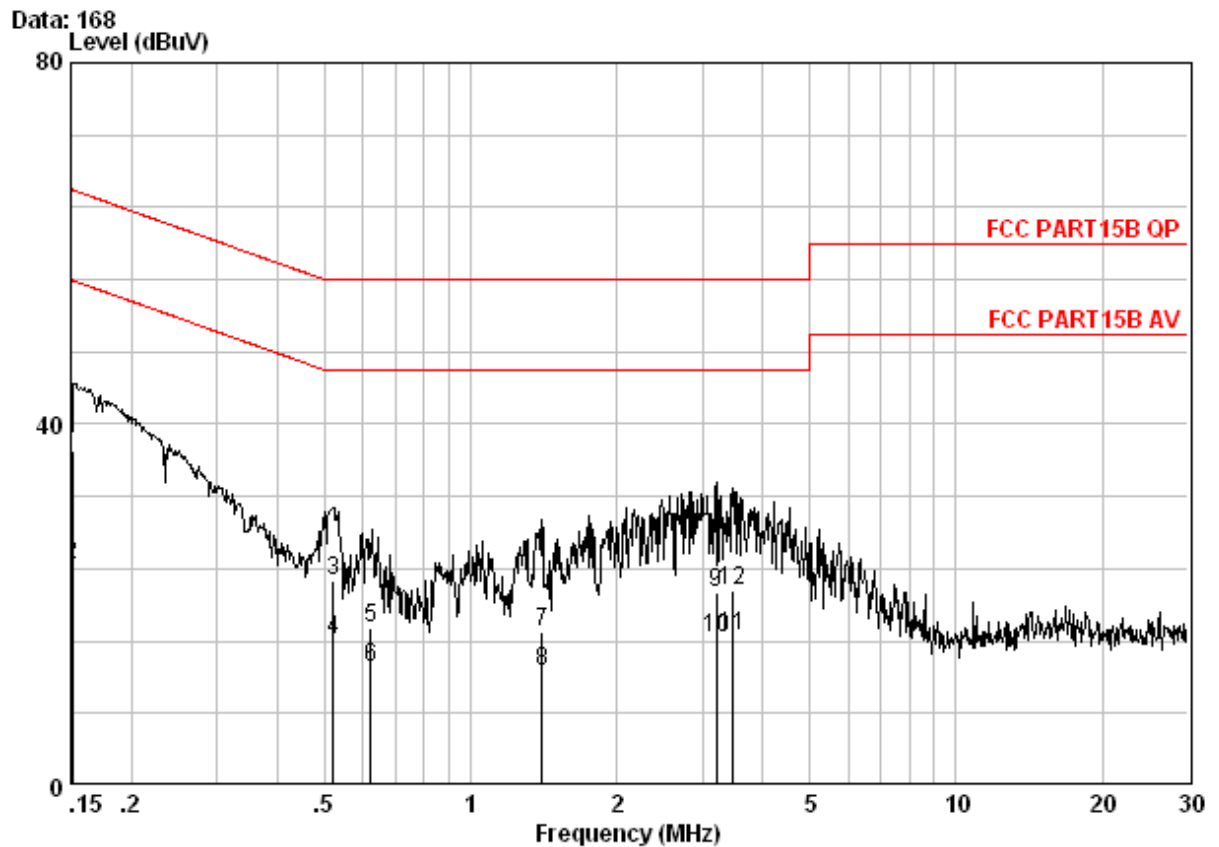


Neutral line:



Site : Shielding Room
Condition : FCC PART 15B QP CE-20101216 NEUTRAL
EUT : Bluetooth Headset
Job No. : 7147RF
Mode : Charge

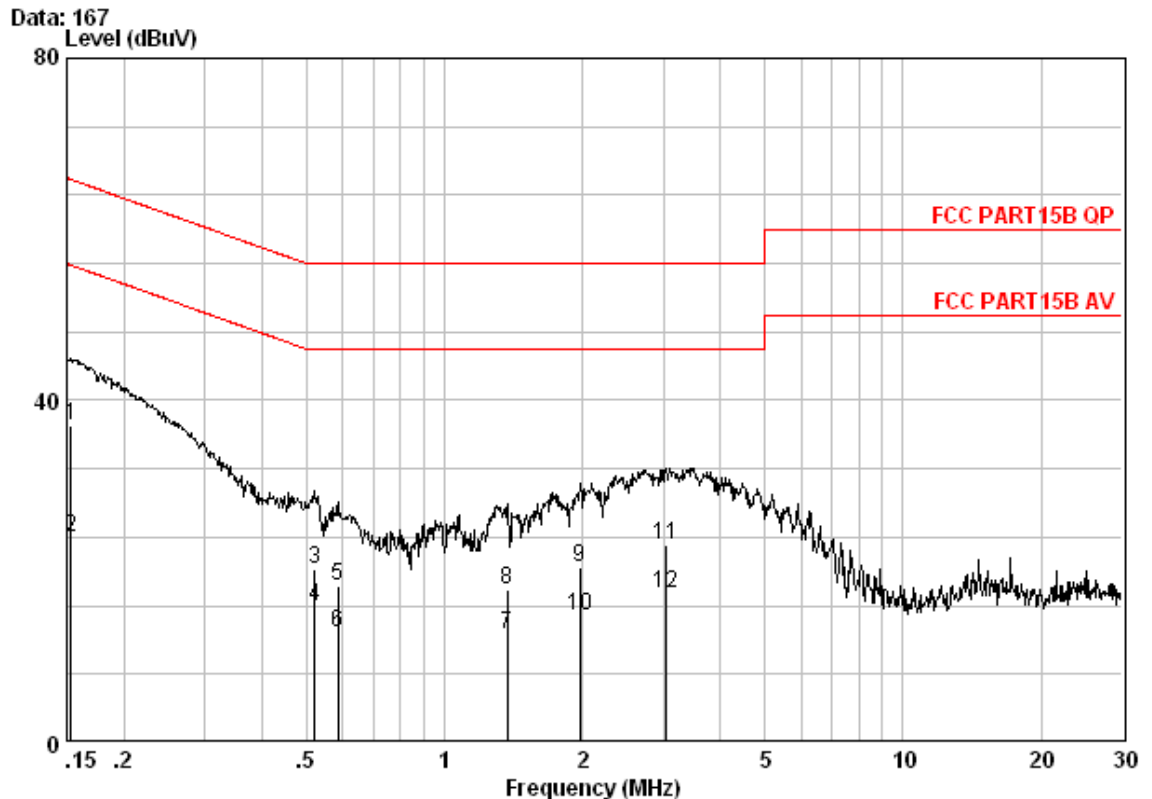
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15200	0.04	9.60	28.90	38.54	65.89	-27.35	QP
2	0.15200	0.04	9.60	16.30	25.94	55.89	-29.95	Average
3	0.48000	0.06	9.60	10.70	20.36	56.34	-35.98	QP
4	0.48000	0.06	9.60	4.90	14.56	46.34	-31.78	Average
5	0.57600	0.06	9.64	9.70	19.40	56.00	-36.60	QP
6	0.57600	0.06	9.64	3.40	13.10	46.00	-32.90	Average
7	1.037	0.08	9.70	2.90	12.68	46.00	-33.32	Average
8	1.037	0.08	9.70	7.30	17.08	56.00	-38.92	QP
9	3.041	0.14	9.75	14.00	23.89	56.00	-32.11	QP
10 @	3.041	0.14	9.75	8.20	18.09	46.00	-27.91	Average
11	3.779	0.15	9.77	13.20	23.12	56.00	-32.88	QP
12	3.779	0.15	9.77	7.20	17.12	46.00	-28.88	Average

Charge + Bluetooth mode:
Live line:


Site : Shielding Room
Condition : FCC PART 15B QP CE-20101216 LINE
EUT : Bluetooth Headset
Job No. : 7147RF
Mode : Charge + Bluetooth

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15100	0.04	9.60	27.50	37.14	65.94	-28.80	QP
2	0.15100	0.04	9.60	14.70	24.34	55.94	-31.60	Average
3	0.52000	0.06	9.61	12.90	22.57	56.00	-33.43	QP
4	0.52000	0.06	9.61	6.50	16.17	46.00	-29.83	Average
5	0.62300	0.06	9.66	7.80	17.52	56.00	-38.48	QP
6	0.62300	0.06	9.66	3.30	13.02	46.00	-32.98	Average
7	1.403	0.10	9.70	7.30	17.10	56.00	-38.90	QP
8	1.403	0.10	9.70	2.90	12.70	46.00	-33.30	Average
9	3.206	0.14	9.75	11.40	21.30	56.00	-34.70	QP
10	3.206	0.14	9.75	6.50	16.40	46.00	-29.60	Average
11	3.472	0.15	9.76	6.70	16.61	46.00	-29.39	Average
12	3.472	0.15	9.76	11.70	21.61	56.00	-34.39	QP

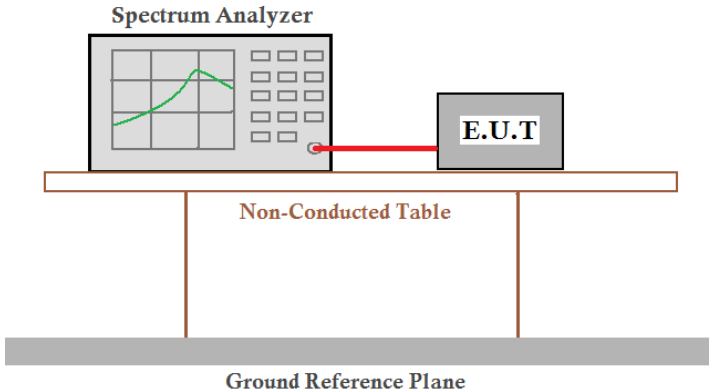
Neutral line:



Site : Shielding Room
Condition : FCC PART 15B QP CE-20101216 NEUTRAL
EUT : Bluetooth Headset
Job No. : 7147RF
Mode : Charge + Bluetooth

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15300	0.04	9.60	27.50	37.14	65.84	-28.70	QP
2	0.15300	0.04	9.60	14.40	24.04	55.84	-31.80	Average
3	0.52000	0.06	9.61	10.50	20.17	56.00	-35.83	QP
4	0.52000	0.06	9.61	6.30	15.97	46.00	-30.03	Average
5	0.58500	0.06	9.65	8.70	18.41	56.00	-37.59	QP
6	0.58500	0.06	9.65	3.20	12.91	46.00	-33.09	Average
7	1.373	0.10	9.70	2.90	12.70	46.00	-33.30	Average
8	1.373	0.10	9.70	8.00	17.80	56.00	-38.20	QP
9	1.969	0.12	9.70	10.60	20.42	56.00	-35.58	QP
10	1.969	0.12	9.70	4.90	14.72	46.00	-31.28	Average
11	3.041	0.14	9.75	13.20	23.09	56.00	-32.91	QP
12 @	3.041	0.14	9.75	7.50	17.39	46.00	-28.61	Average

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:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with all kinds of modulation.
Test results:	Passed

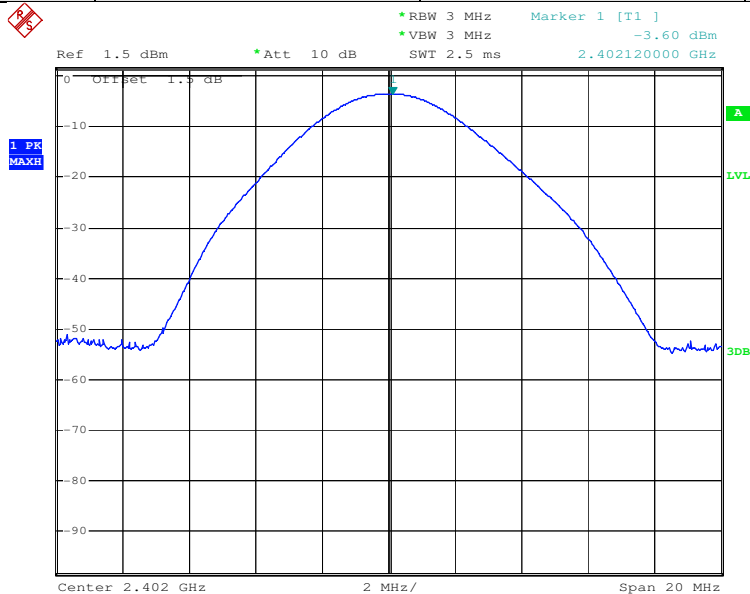
**For original report: SZEMO10070411301****Measurement Data**

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.60	30.00	Pass
Middle	-1.71	30.00	Pass
Highest	-2.36	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.30	30.00	Pass
Middle	0.26	30.00	Pass
Highest	-1.02	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.42	30.00	Pass
Middle	-1.29	30.00	Pass
Highest	-1.02	30.00	Pass

Test plot as follows:

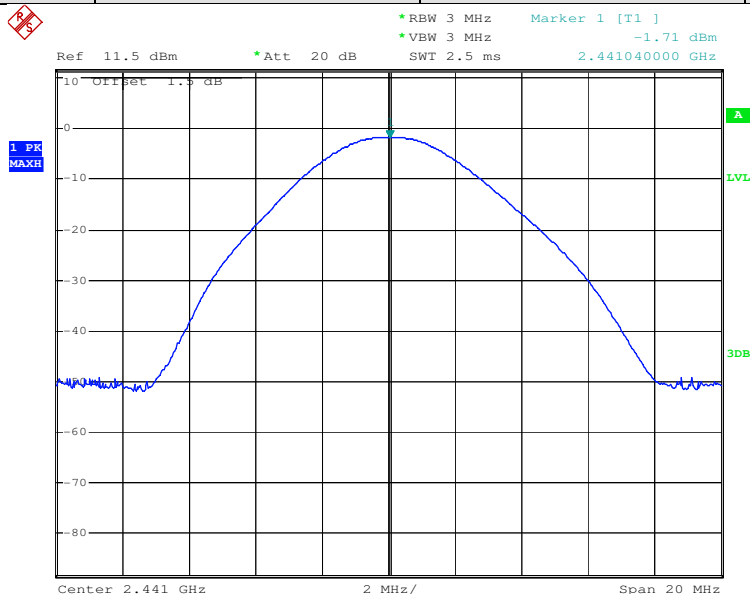


Test mode:	GFSK	Test channel:	Lowest
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Date: 4.JUN.2010 15:46:40

Test mode:	GFSK	Test channel:	Middle
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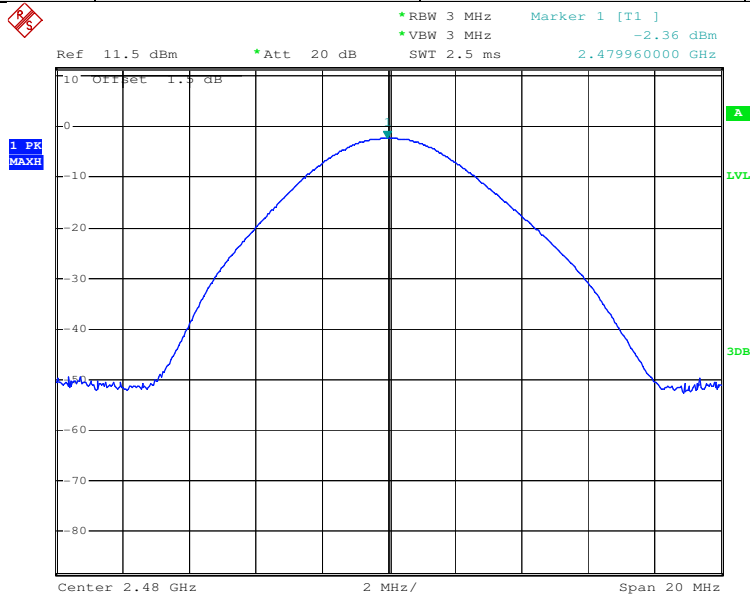


Date: 4.JUN.2010 16:38:15

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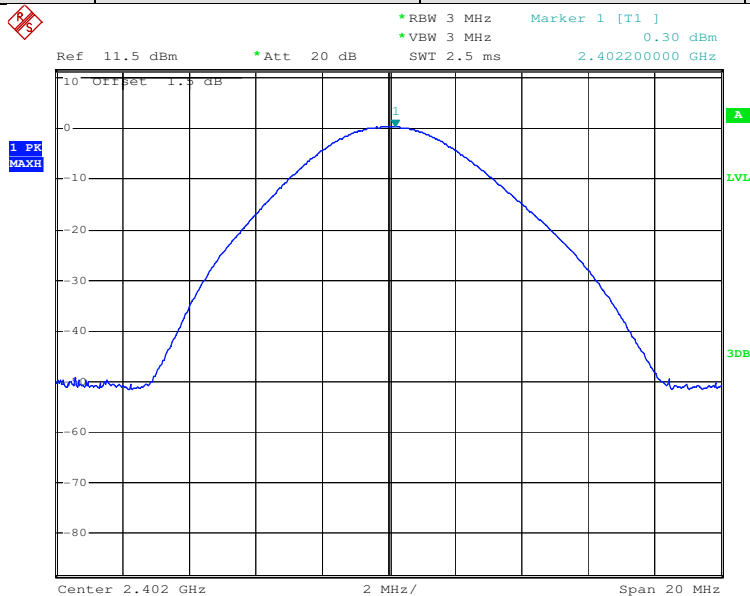


Test mode:	GFSK	Test channel:	Highest
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Date: 6.JUN.2010 15:54:17

Test mode:	Pi/4QPSK	Test channel:	Lowest
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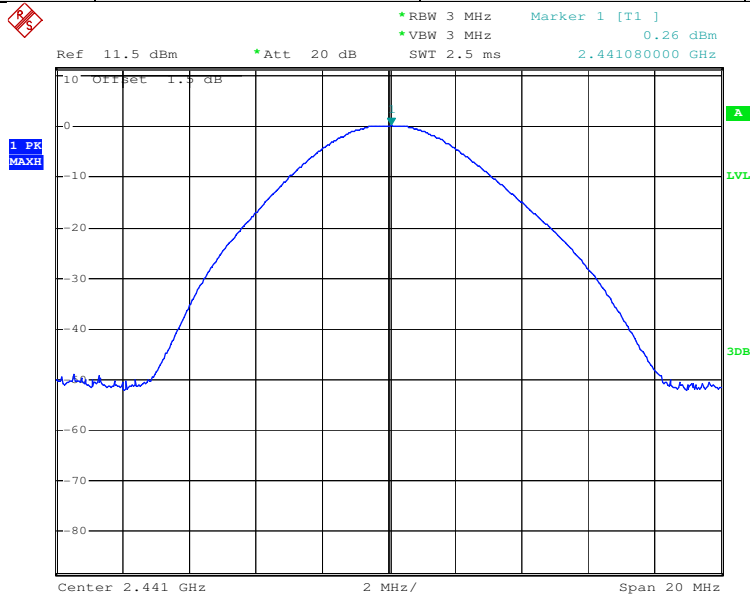


Date: 6.JUN.2010 16:32:19

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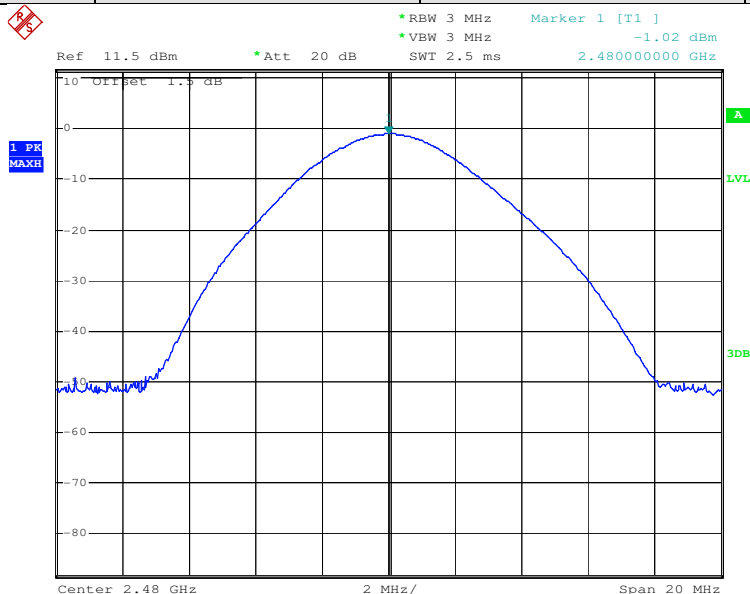


Test mode:	Pi/4QPSK	Test channel:	Middle
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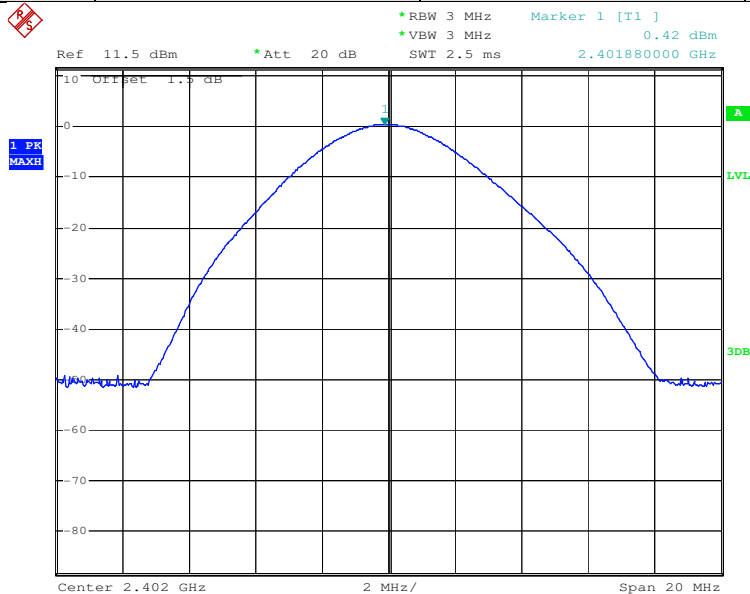
Date: 6.JUN.2010 16:20:03

Test mode:	Pi/4QPSK	Test channel:	Highest
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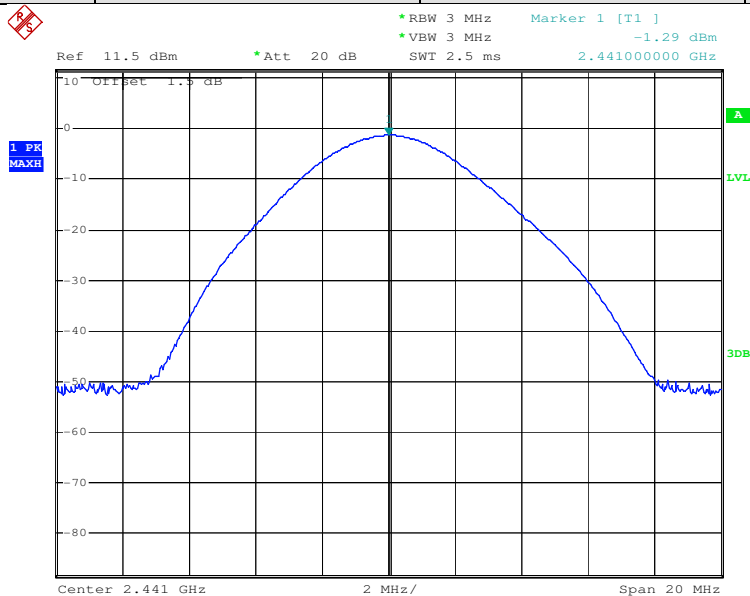


Test mode:	8DPSK	Test channel:	Lowest
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Date: 7.JUN.2010 10:21:00

Test mode:	8DPSK	Test channel:	Middle
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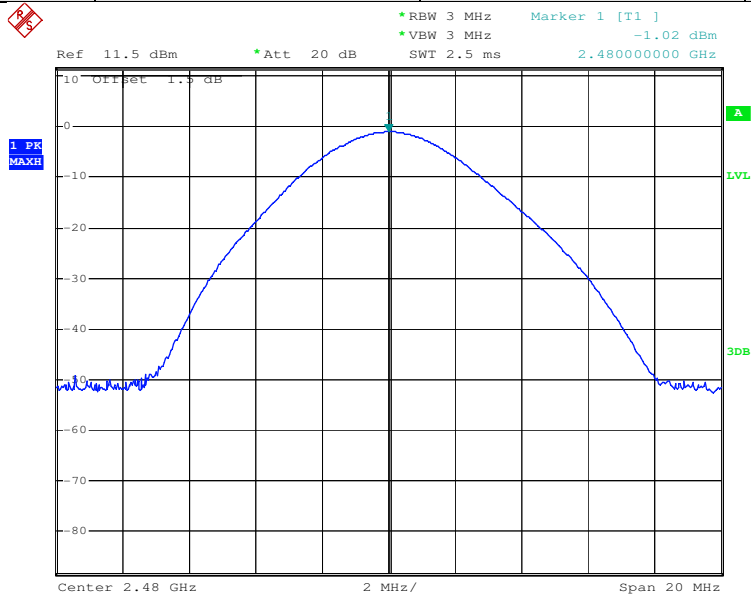


Date: 8.JUN.2010 09:21:47

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Test mode:	8DPSK	Test channel:	Highest
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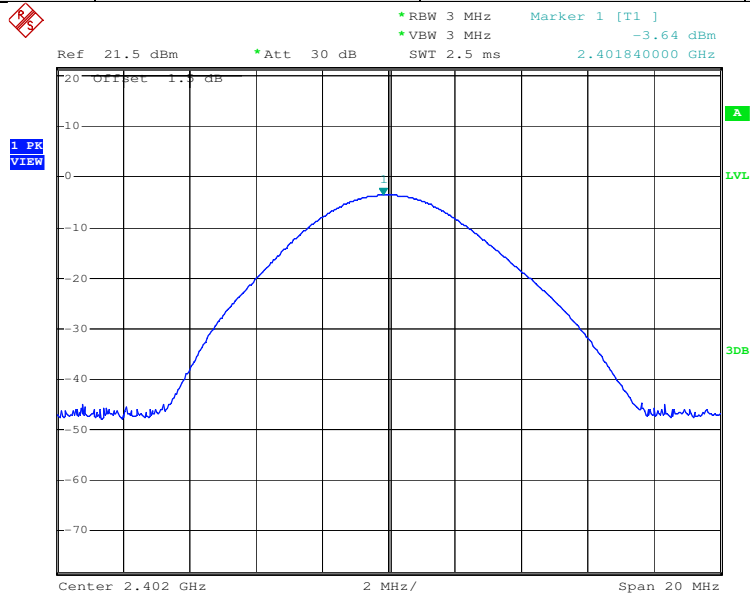


**For new report:SZEMO10110714701****Measurement Data**

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.64	30.00	Pass
Middle	-1.74	30.00	Pass
Highest	-2.77	30.00	Pass
Pi/4QPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.11	30.00	Pass
Middle	0.23	30.00	Pass
Highest	-1.21	30.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	0.39	30.00	Pass
Middle	-1.55	30.00	Pass
Highest	-1.15	30.00	Pass

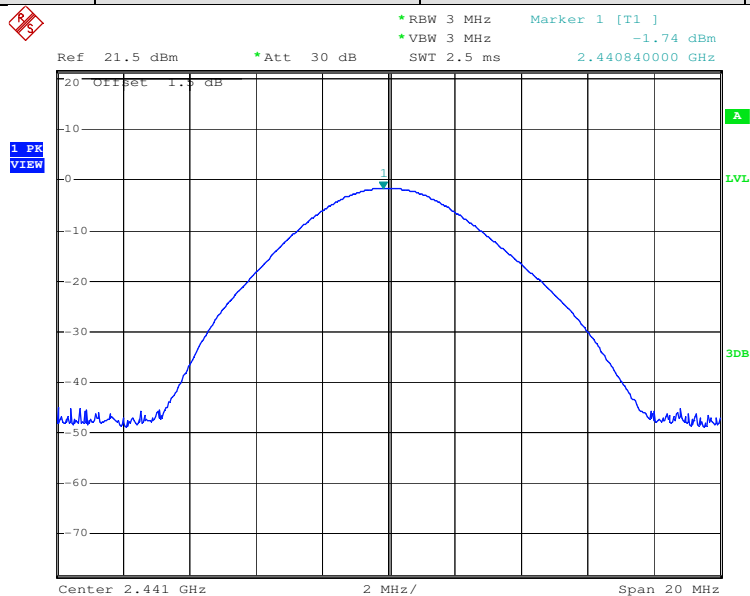
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 22.FEB.2011 09:01:00

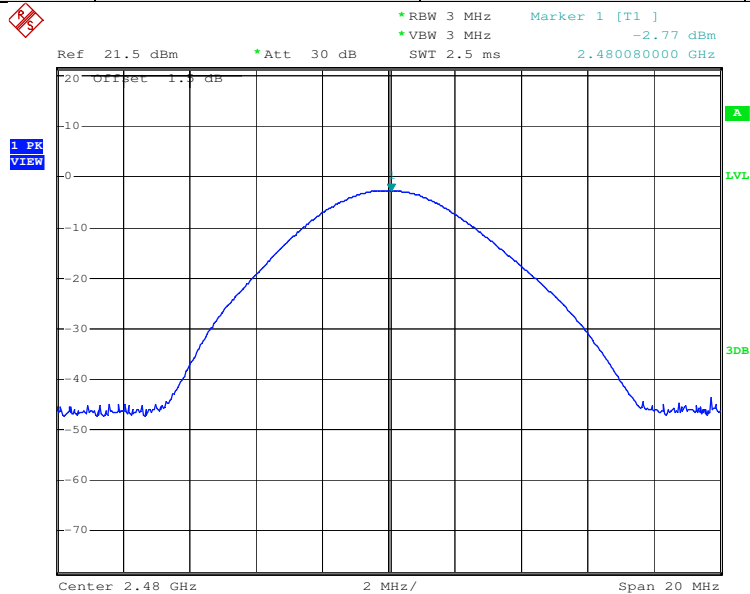
Test mode:	GFSK	Test channel:	Middle
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Date: 22.FEB.2011 09:08:50

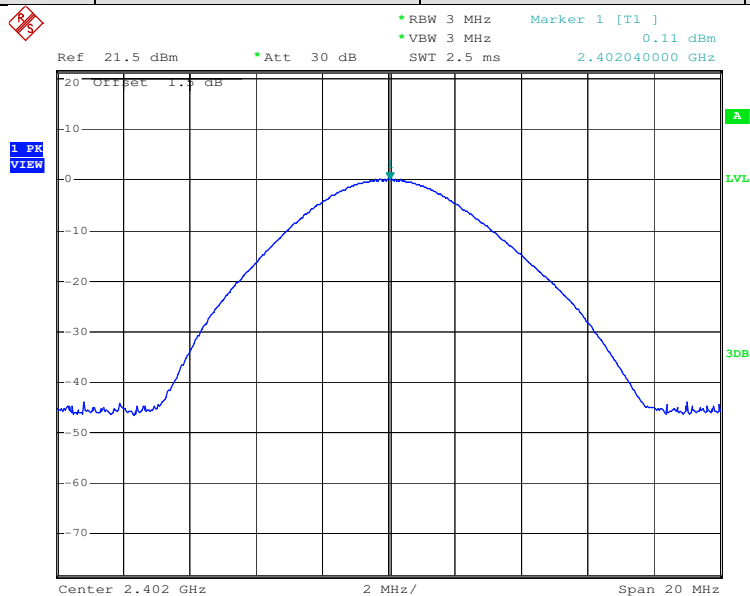


Test mode:	GFSK	Test channel:	Highest
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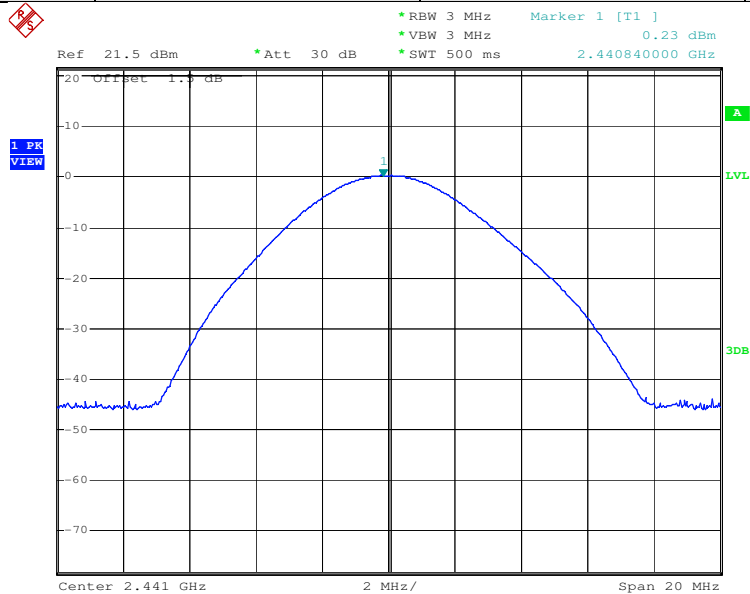
Date: 22.FEB.2011 09:21:11

Test mode:	Pi/4QPSK	Test channel:	Lowest
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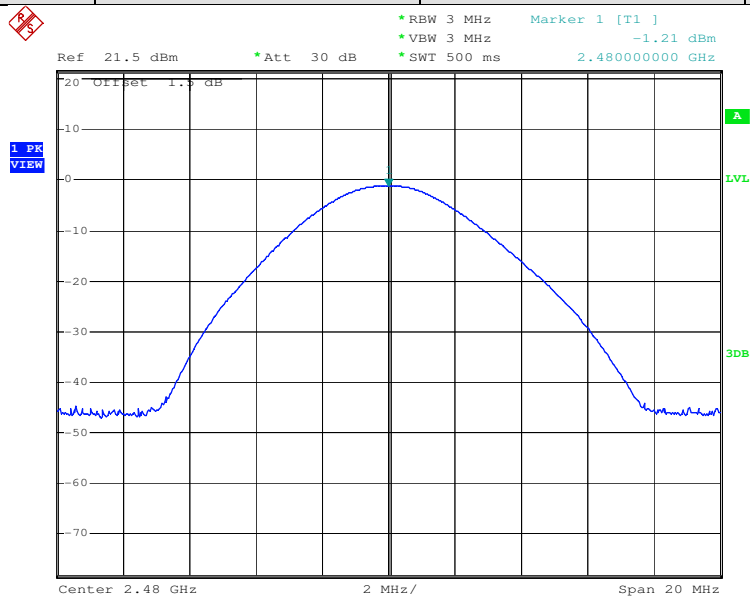
Date: 22.FEB.2011 11:30:21

Test mode:	Pi/4QPSK	Test channel:	Middle
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Date: 22.FEB.2011 11:43:26

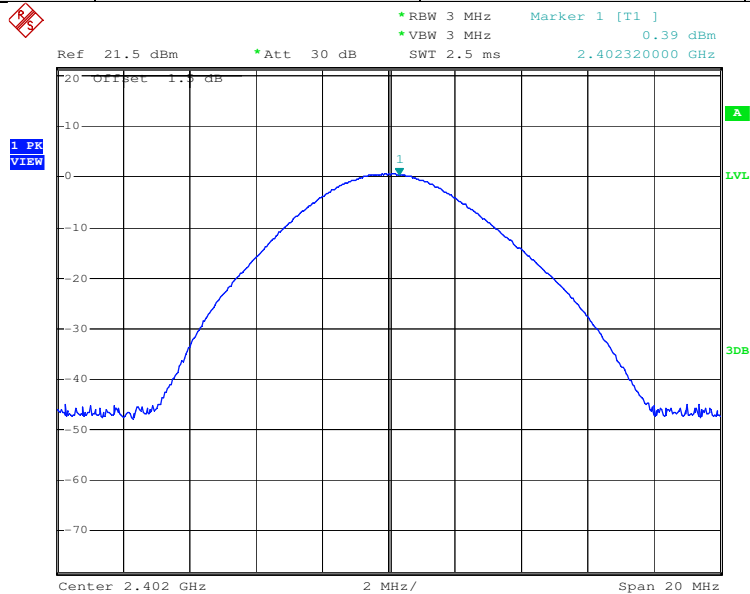
Test mode:	Pi/4QPSK	Test channel:	Highest
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Date: 22.FEB.2011 11:53:53

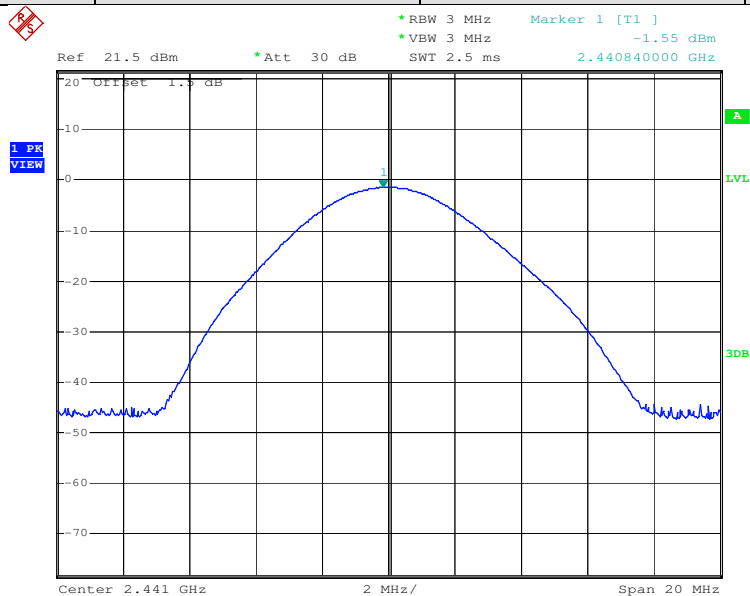


Test mode:	8DPSK	Test channel:	Lowest
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Date: 22.FEB.2011 11:29:07

Test mode:	8DPSK	Test channel:	Middle
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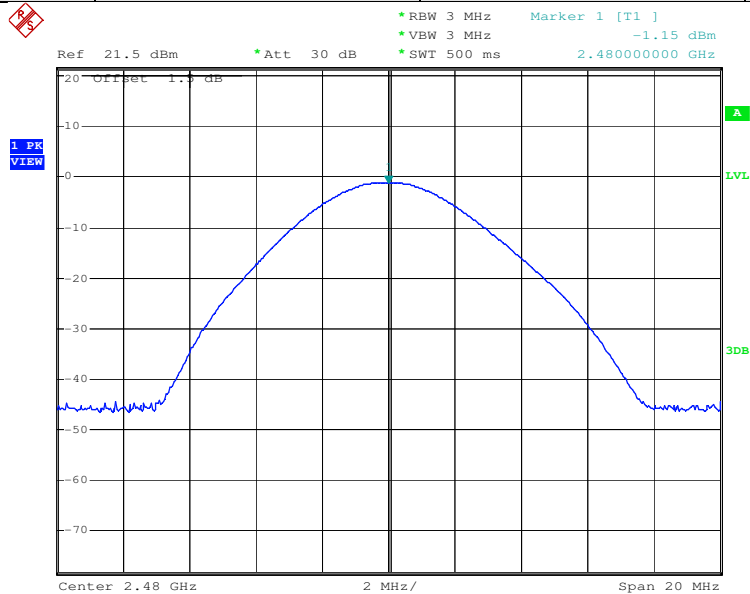


Date: 22.FEB.2011 09:07:39

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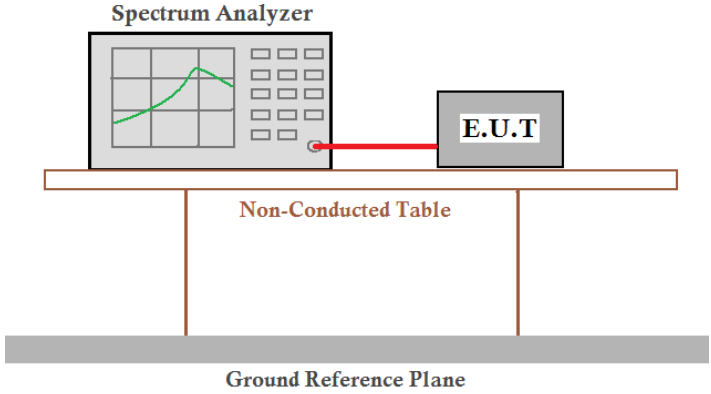


Test mode:	8DPSK	Test channel:	Highest
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Date: 22.FEB.2011 11:55:12

5.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	NA
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test state:	Non-hopping transmitting with all kind of modulation.
Test results:	Passed

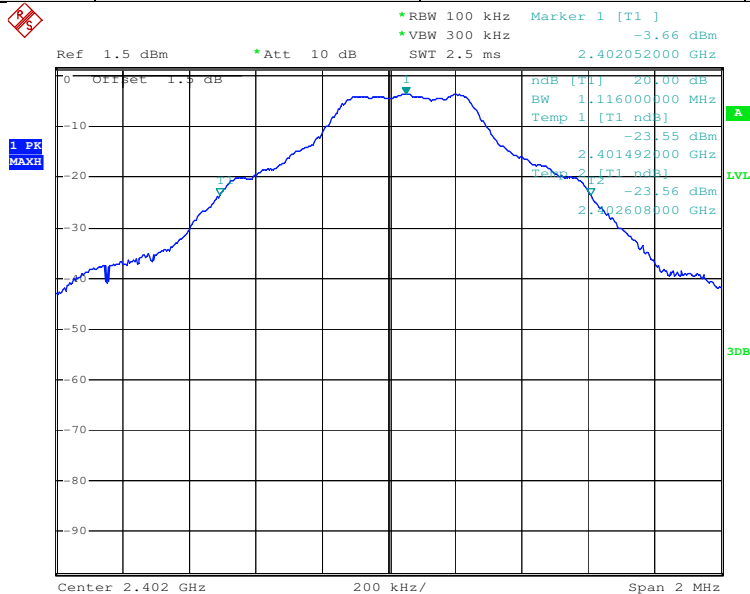
Measurement Data

Test channel	20dB Occupy Bandwidth (KHz)		
	GFSK	Pi/4QPSK	8DPSK
Lowest	1116	1384	1356
Middle	1124	1384	1364
Highest	1120	1360	1360

Test plot as follows:

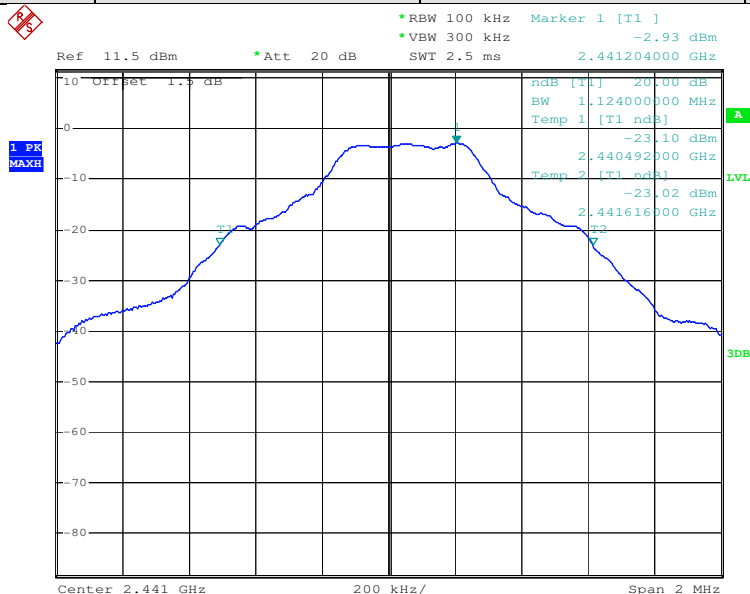


Test mode:	GFSK	Test channel:	Lowest
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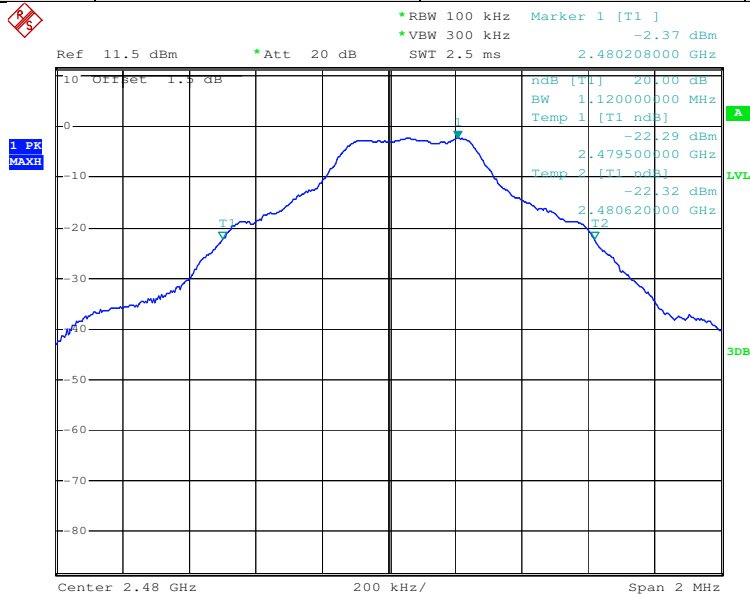
Date: 4.JUN.2010 15:49:39

Test mode:	GFSK	Test channel:	Middle
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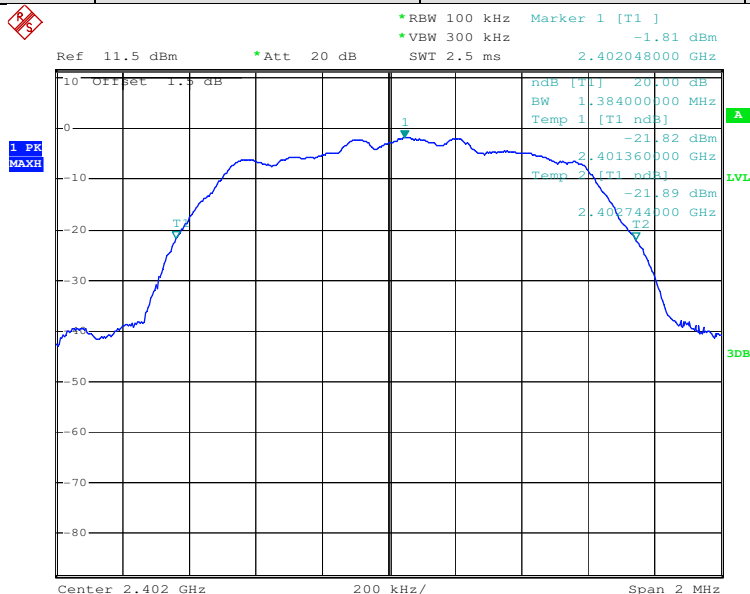
Date: 4.JUN.2010 16:39:46

Test mode:	GFSK	Test channel:	Highest
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Date: 6.JUN.2010 15:54:50

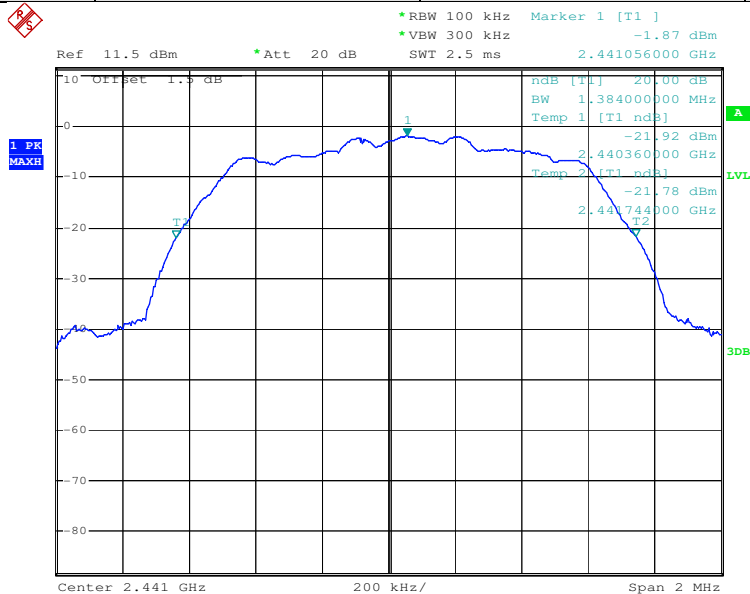
Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 6.JUN.2010 16:32:52

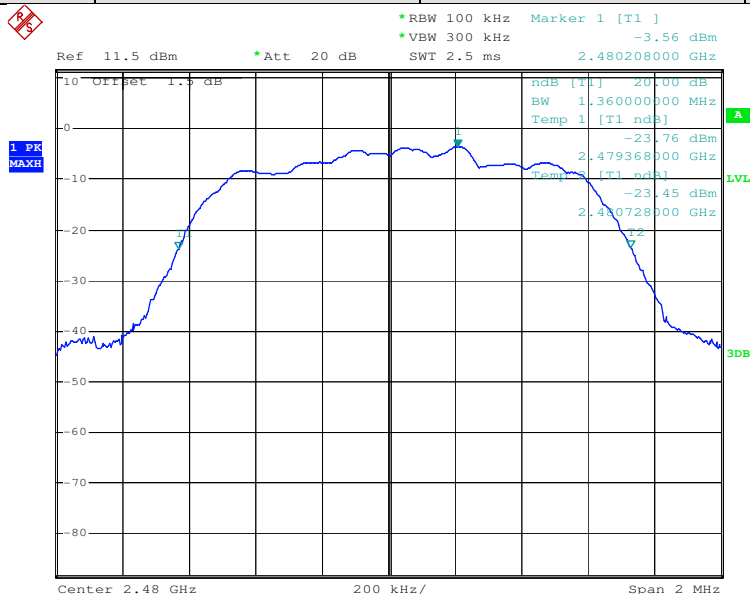


Test mode:	Pi/4QPSK	Test channel:	Middle
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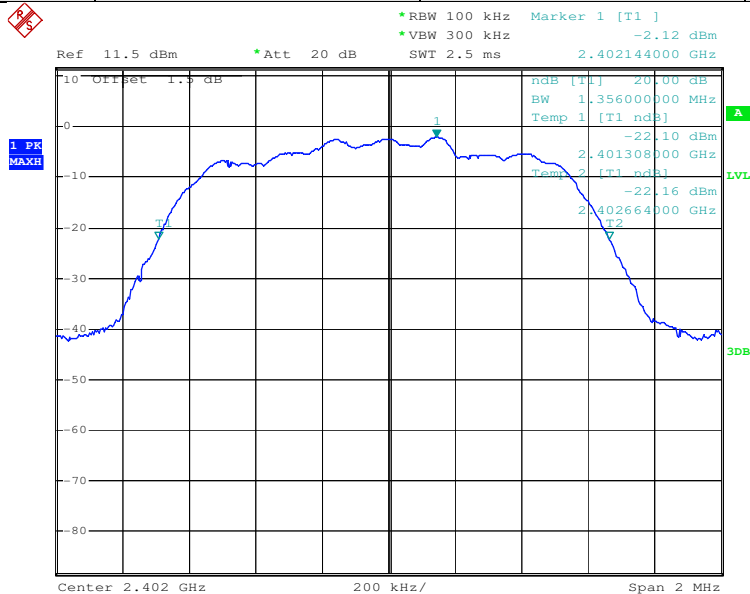


Date: 6.JUN.2010 16:20:34

Test mode:	Pi/4QPSK	Test channel:	Highest
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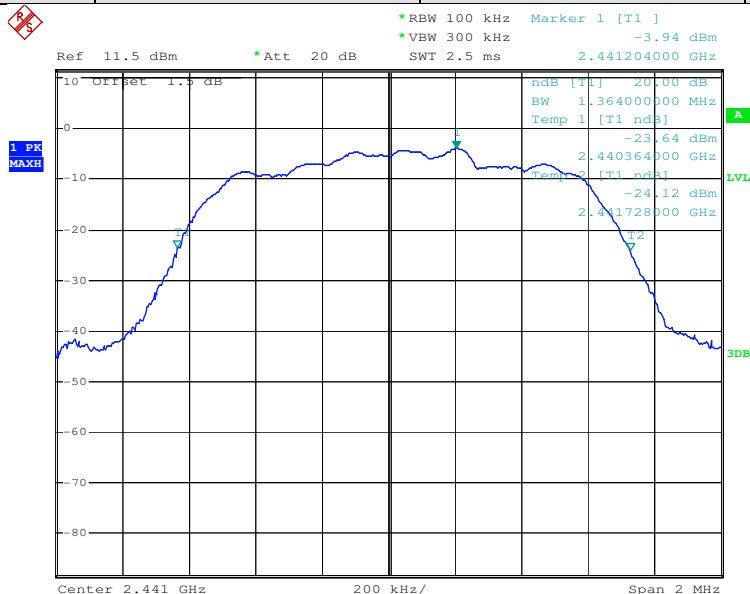


Test mode:	8DPSK	Test channel:	Lowest
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Date: 7.JUN.2010 10:21:34

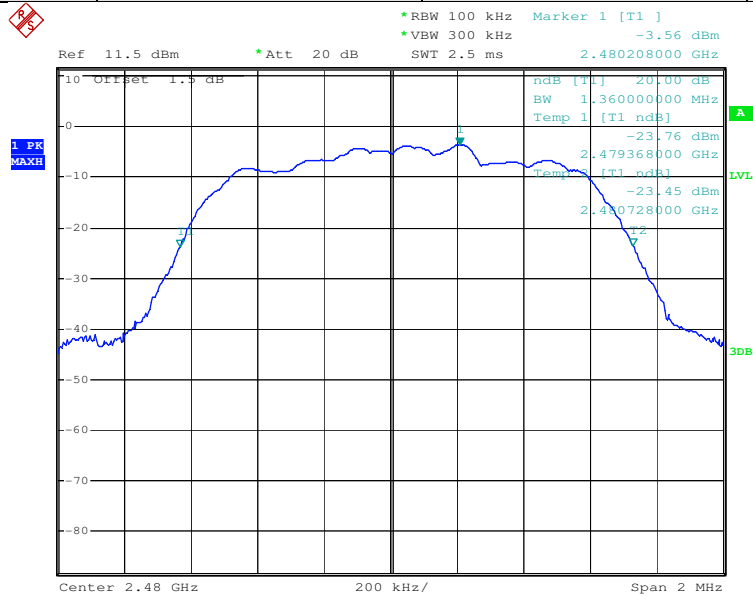
Test mode:	8DPSK	Test channel:	Middle
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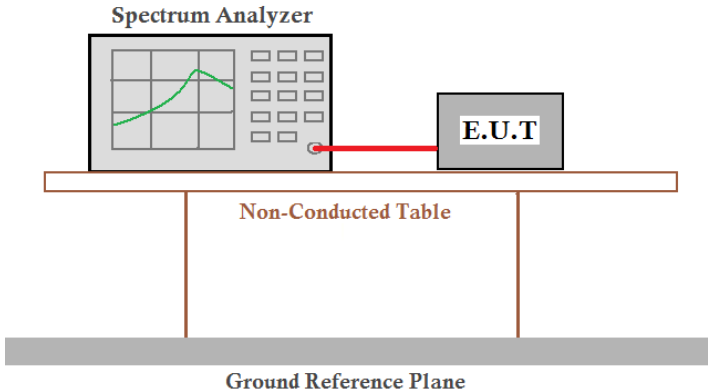
Date: 8.JUN.2010 09:20:35



Test mode:	8DPSK	Test channel:	Highest
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5.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Test state:	Hopping transmitting with all kind of modulation.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. 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:	Passed

**Measurement Data**

GFSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1004	922.6	Pass
Middle	1004	922.6	Pass
Highest	1004	922.6	Pass
Pi/4QPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1004	922.6	Pass
Middle	1004	922.6	Pass
Highest	1004	922.6	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result
Lowest	1000	922.6	Pass
Middle	1004	922.6	Pass
Highest	1004	922.6	Pass

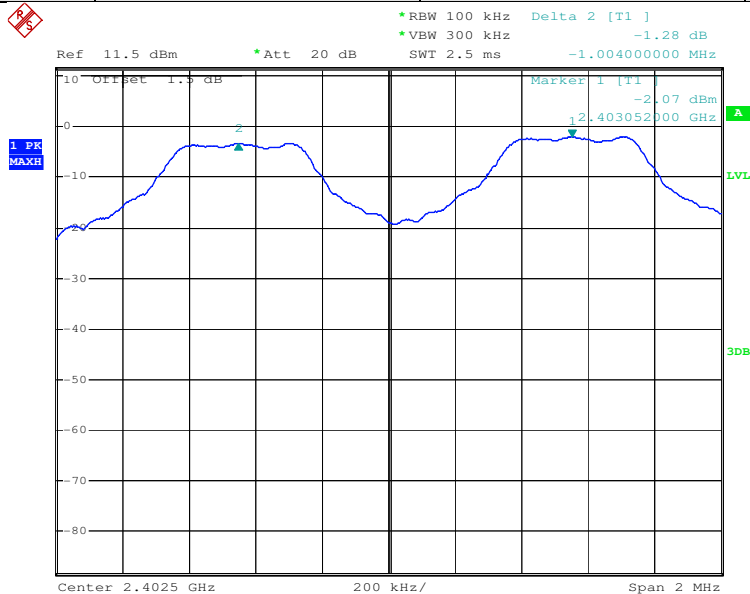
Note: According to section 5.4,

Mode	20dB bandwidth (KHz) (worse case)	Limit (KHz) (Carrier Frequencies Separation)
GFSK	1124	749.3
PI/4QPSK	1384	922.6
8DPSK	1364	909.3

Test plot as follows:

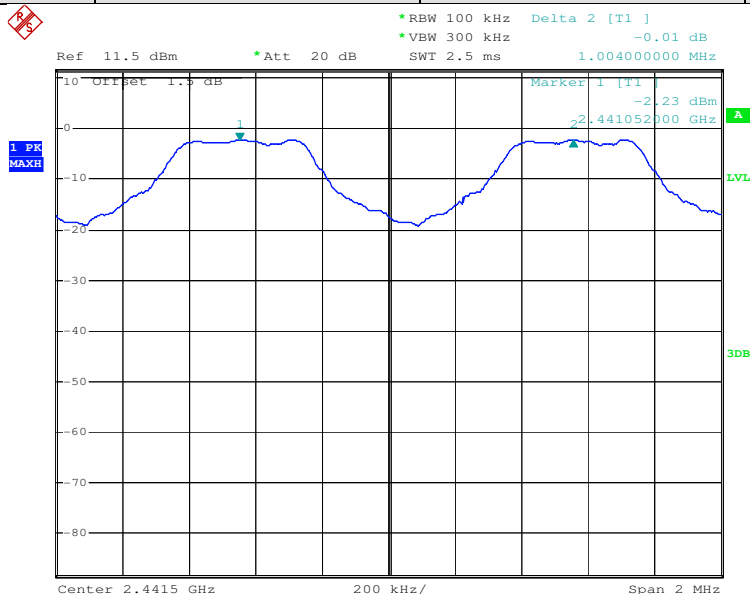


Test mode:	GFSK	Test channel:	Lowest
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Date: 4.JUN.2010 16:27:29

Test mode:	GFSK	Test channel:	Middle
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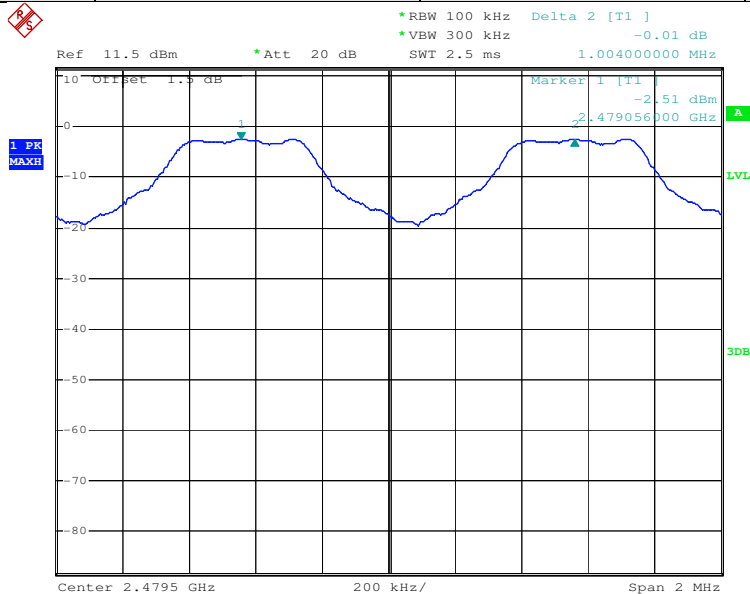


Date: 6.JUN.2010 16:45:40

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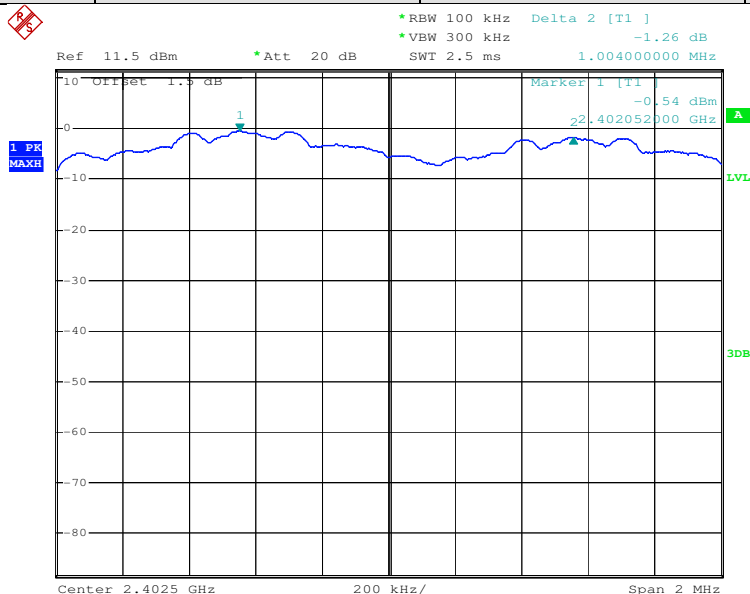


Test mode:	GFSK	Test channel:	Highest
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Date: 6.JUN.2010 16:05:34

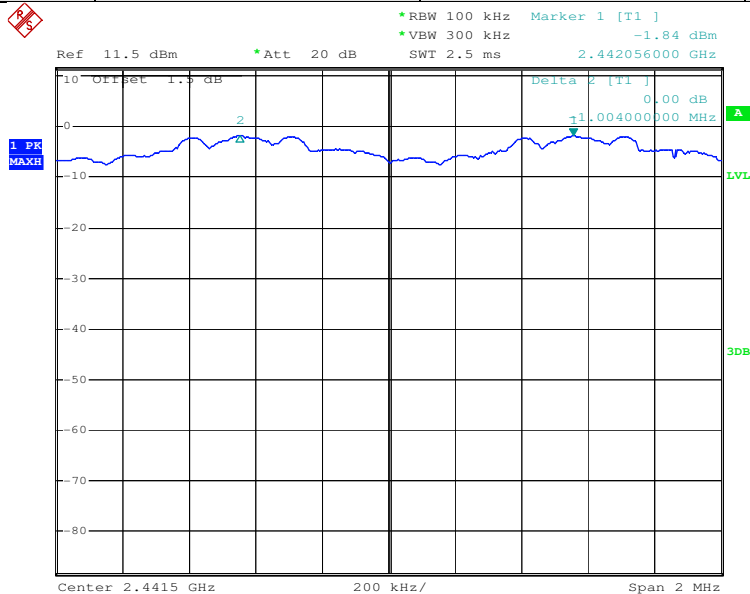
Test mode:	Pi/4QPSK	Test channel:	Lowest
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Date: 6.JUN.2010 16:34:55

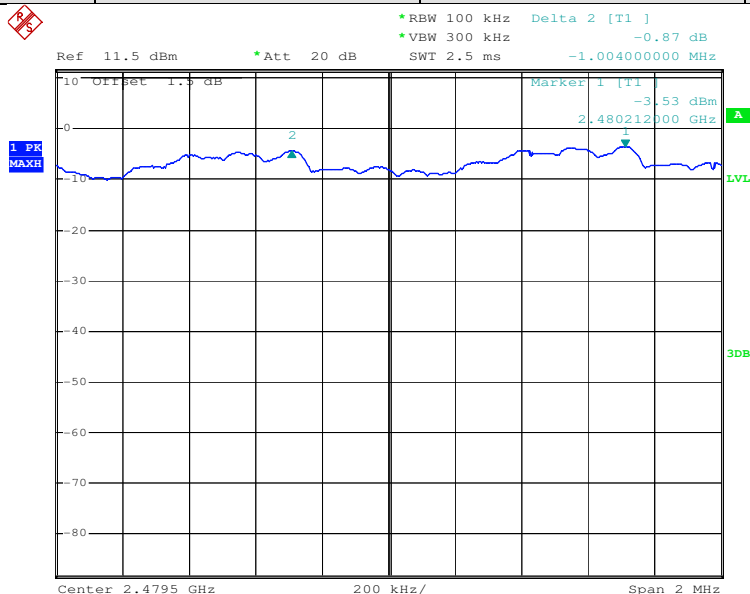


Test mode:	Pi/4QPSK	Test channel:	Middle
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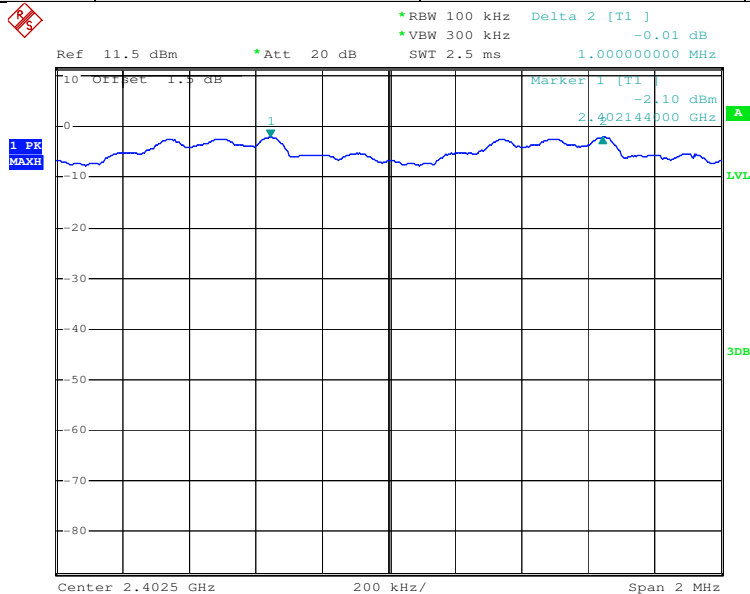


Date: 6.JUN.2010 16:30:45

Test mode:	Pi/4QPSK	Test channel:	Highest
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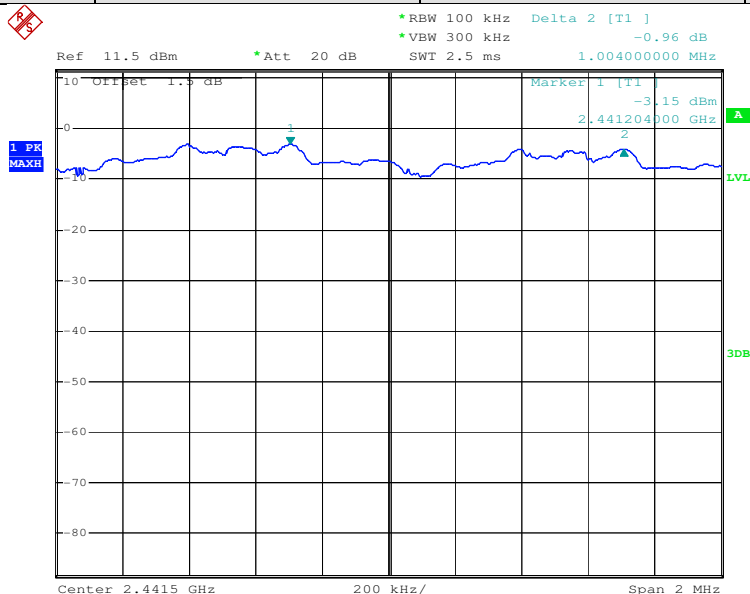


Test mode:	8DPSK	Test channel:	Lowest
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Date: 7.JUN.2010 10:25:36

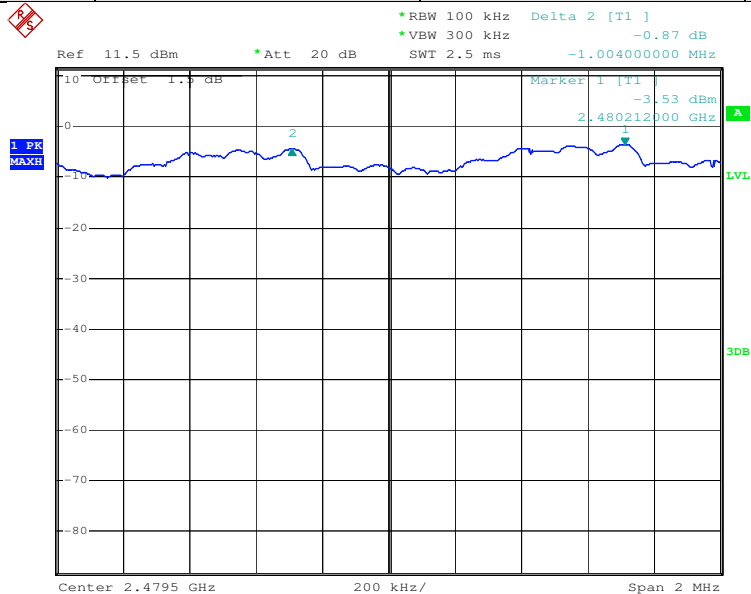
Test mode:	8DPSK	Test channel:	Middle
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Date: 8.JUN.2010 09:33:47

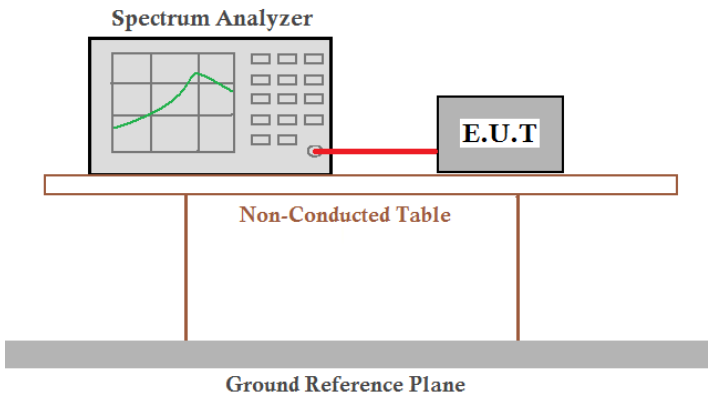


Test mode:	8DPSK	Test channel:	Highest
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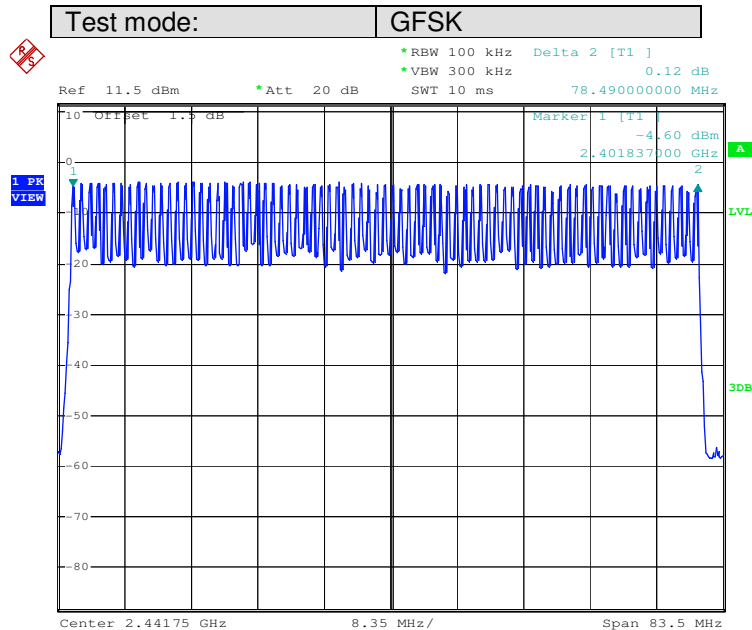
5.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (b)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	75channels
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Passed

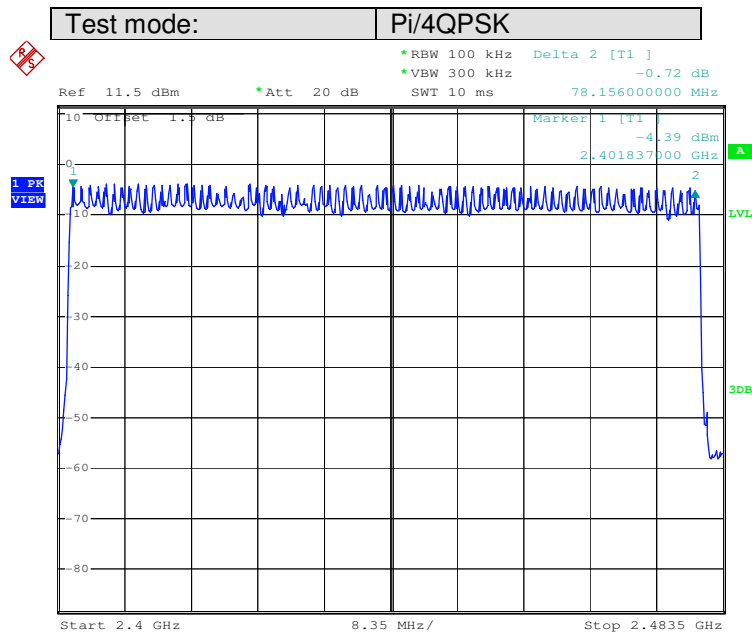
Measurement Data

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

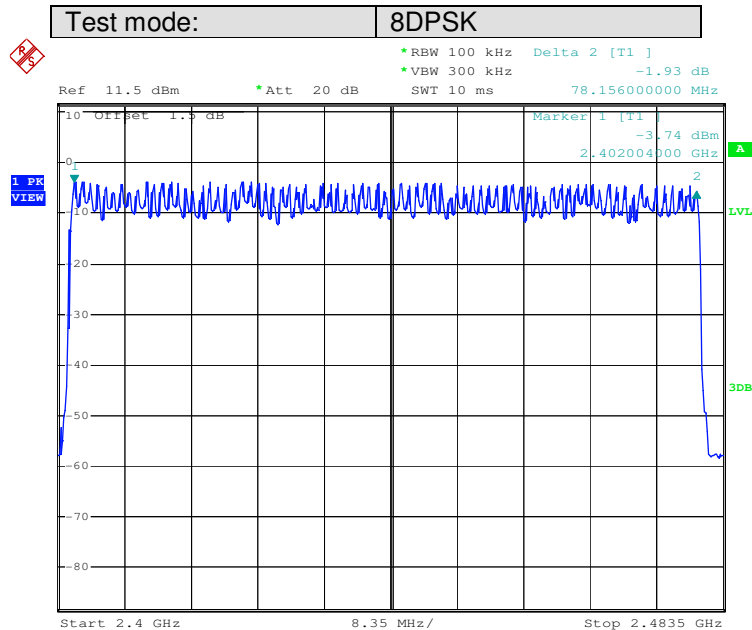
Test plot as follows



Date: 8.JUN.2010 09:51:23

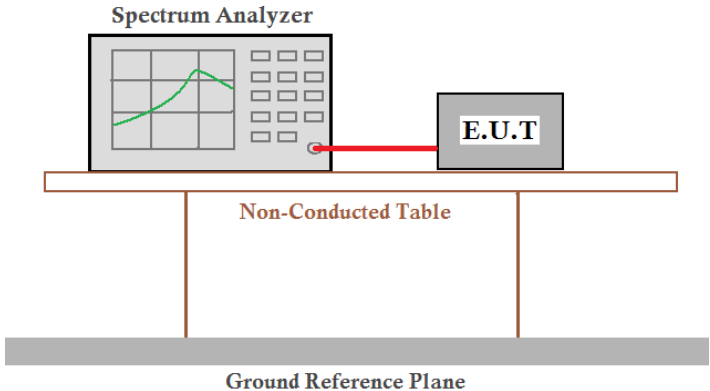


Date: 8.JUN.2010 09:49:34



Date: 8.JUN.2010 09:46:29

5.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	0.4 Second
Test setup:	
Test Instruments:	Refer to section 4.7 for details
Test state:	Hopping transmitting with all kind of modulation.
Test results:	Passed

Measurement Data

Mode	Packet	Dwell time (second)	Limit (second)
GFSK	DH1	131.8	0.4
	DH3	270.4	0.4
	DH5	313.4	0.4
Pi/4QPSK	2-DH1	134.4	0.4
	2-DH3	267.2	0.4
	2-DH5	313.4	0.4
8DPSK	3-DH1	134.4	0.4
	3-DH3	267.2	0.4
	3-DH5	307.2	0.4

Test Result:

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

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

DH1 time slot = $0.412(\text{ms}) \times (1600 / (2 \times 79)) \times 31.6 = 131.8 \text{ ms}$

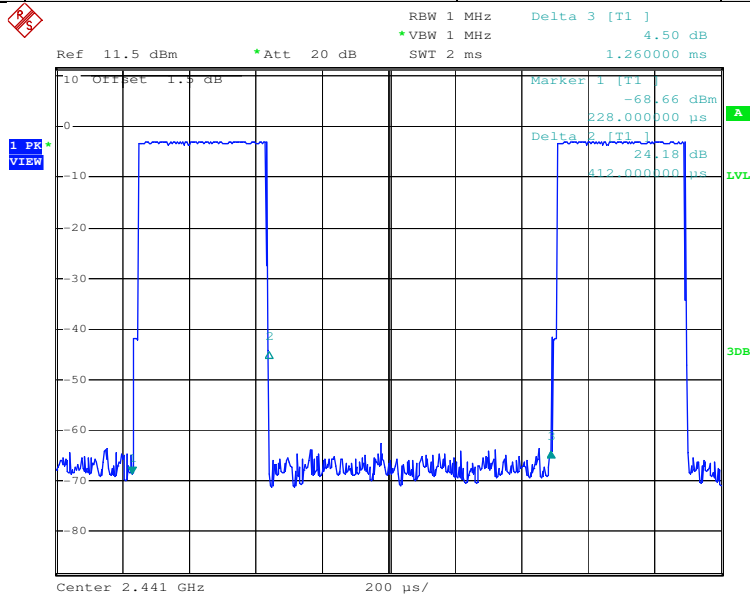
DH3 time slot = $1.690(\text{ms}) \times (1600 / (4 \times 79)) \times 31.6 = 270.4 \text{ ms}$

DH5 time slot = $2.94(\text{ms}) \times (1600 / (6 \times 79)) \times 31.6 = 313.6 \text{ ms}$



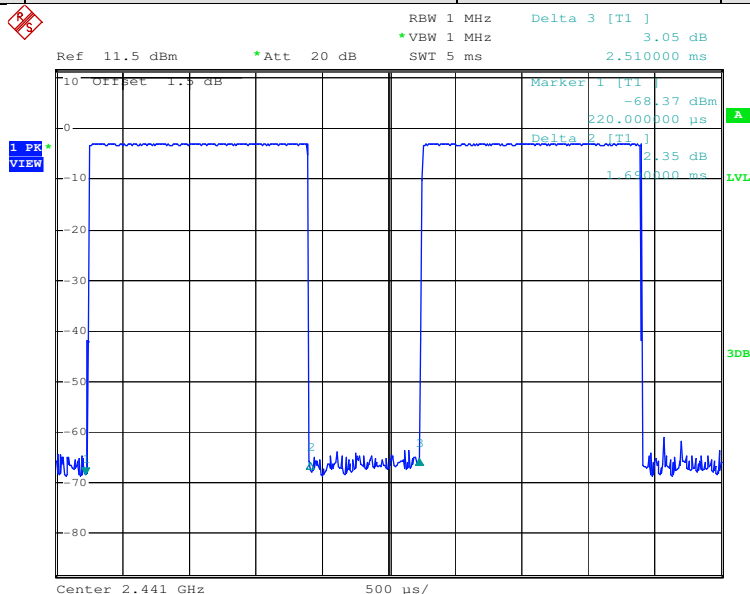
Test plot as follows

Test mode:	GFSK	Test Packet:	DH1
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Date: 4.JUN.2010 16:43:16

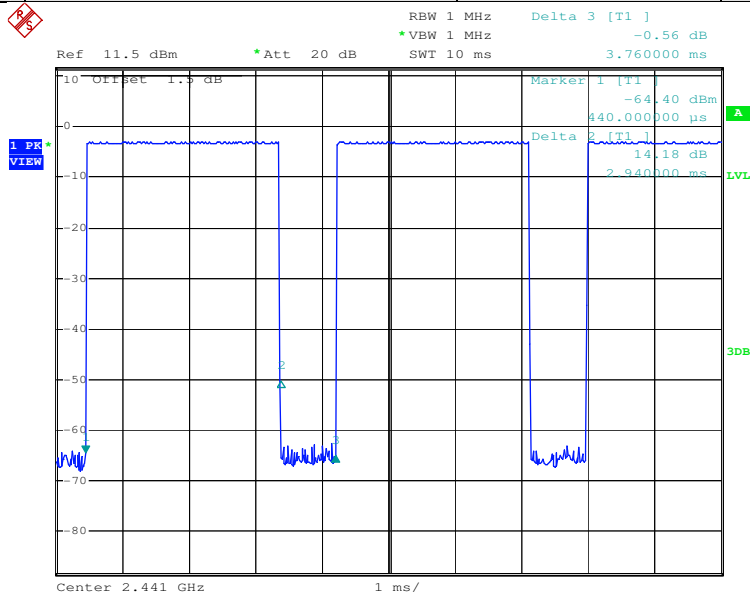
Test mode:	GFSK	Test Packet:	DH3
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Date: 4.JUN.2010 16:44:08

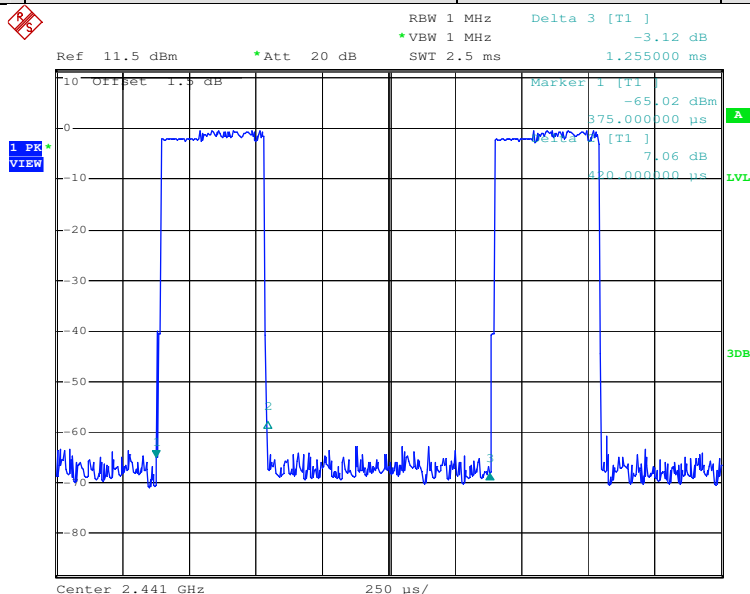


Test mode:	GFSK	Test Packet:	DH5
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Date: 4.JUN.2010 16:45:18

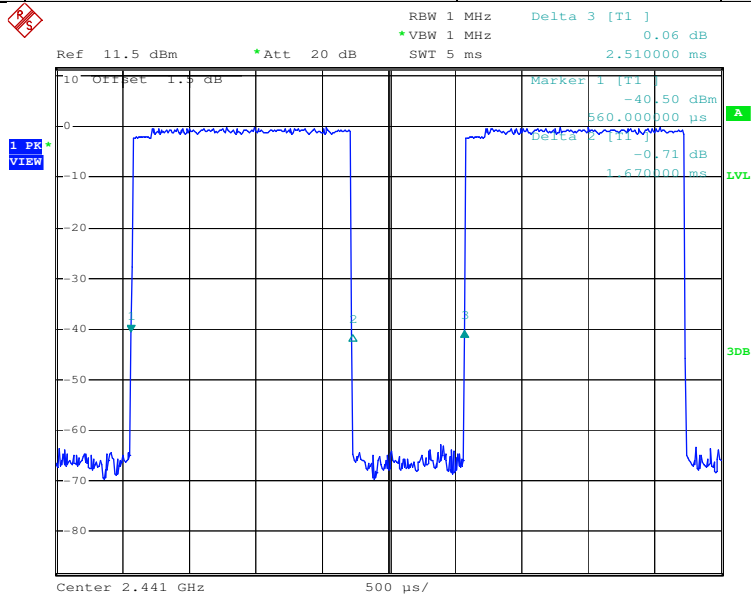
Test mode:	Pi/4QPSK	Test Packet:	2-DH1
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Date: 6.JUN.2010 16:25:36

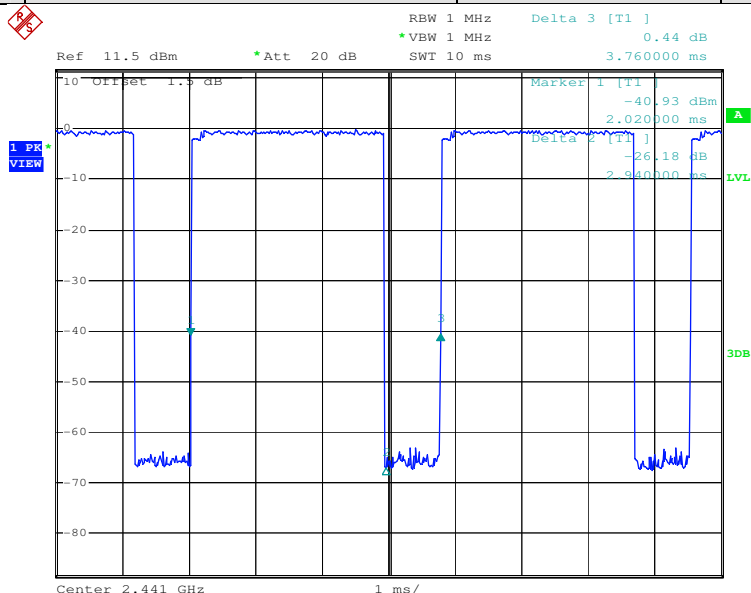


Test mode:	Pi/4QPSK	Test Packet:	2-DH3
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Date: 6.JUN.2010 16:26:20

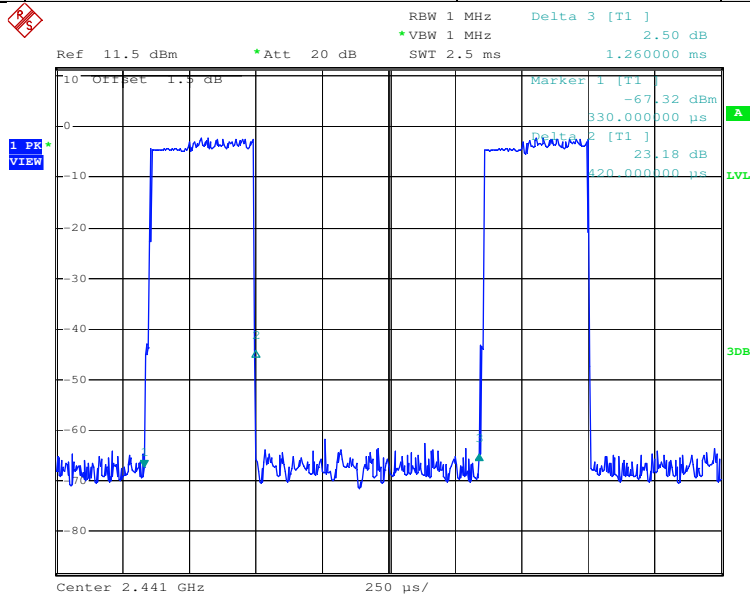
Test mode:	Pi/4QPSK	Test Packet:	2-DH5
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Date: 6.JUN.2010 16:26:56

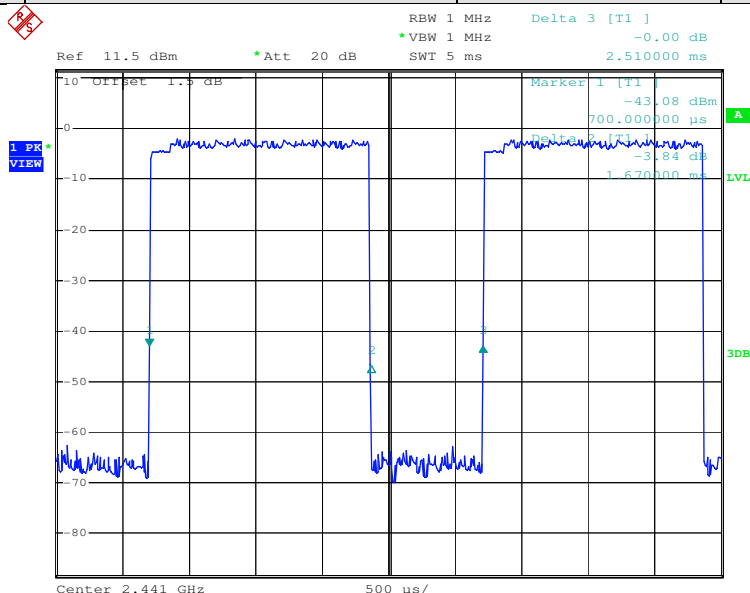


Test mode:	8DPSK	Test Packet:	3-DH1
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Date: 8.JUN.2010 09:34:58

Test mode:	8DPSK	Test Packet:	3-DH3
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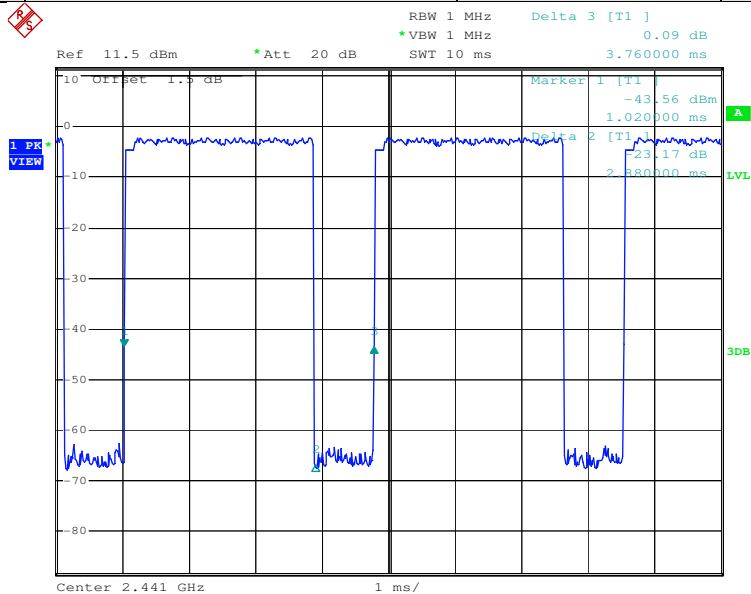


Date: 8.JUN.2010 09:35:32

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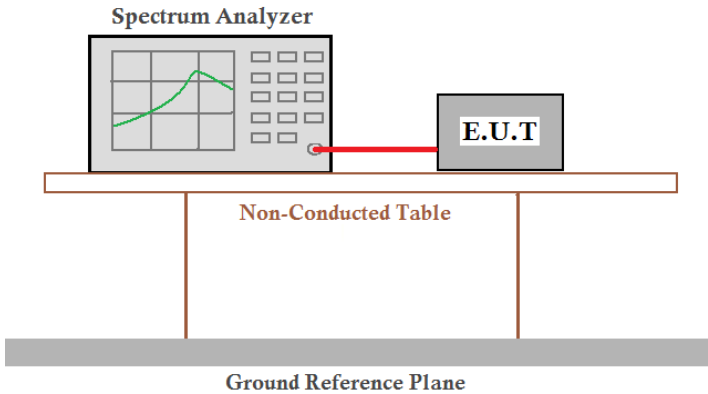
Test mode:	8DPSK	Test Packet:	3-DH5
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Date: 8.JUN.2010 09:36:16

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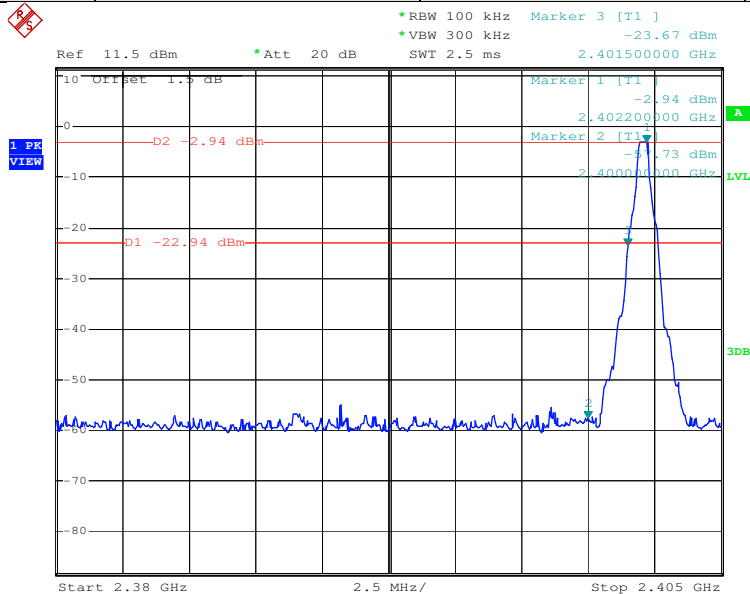
5.8 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p><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:	Passed

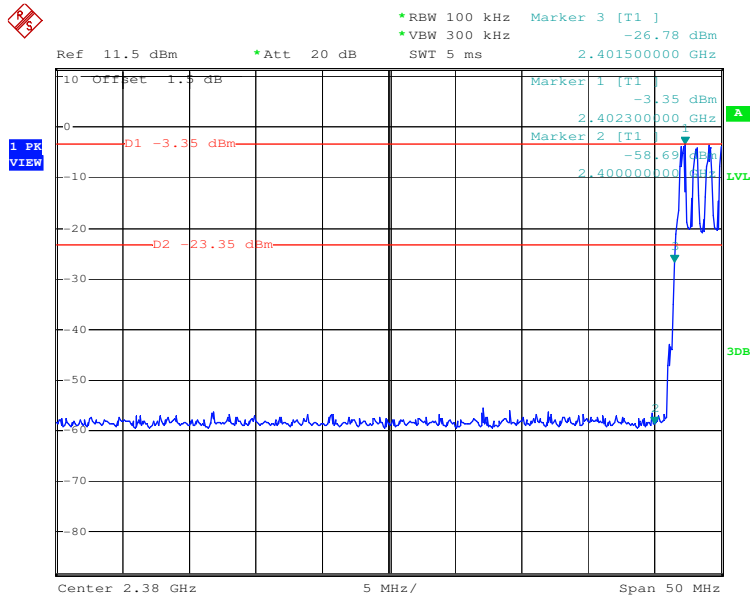
Test plot as follows:



Test mode:	GFSK	Test channel:	Lowest
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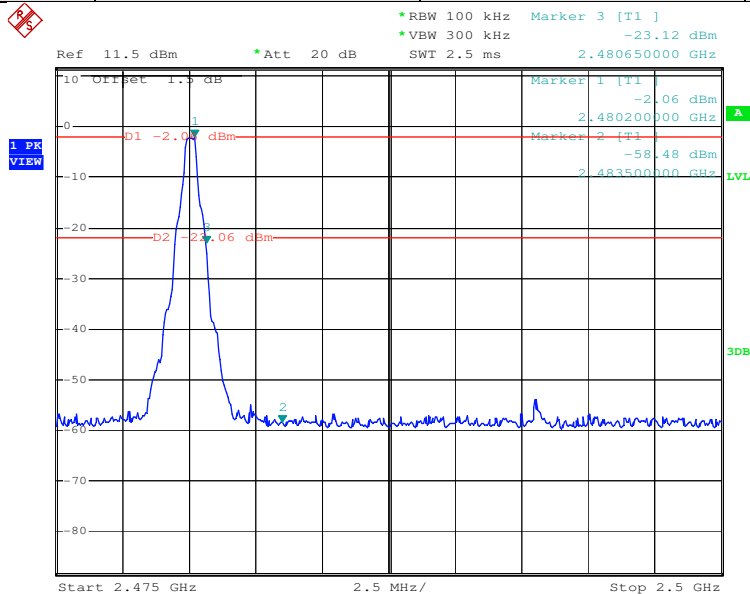
Date: 4.JUN.2010 15:52:06



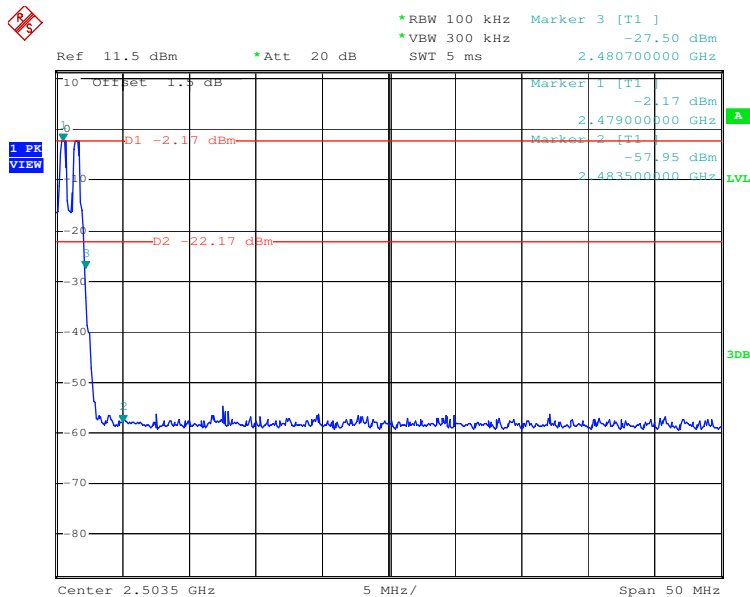
Date: 4.JUN.2010 16:33:05



Test mode:	GFSK	Test channel:	Highest
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Date: 6.JUN.2010 16:01:57

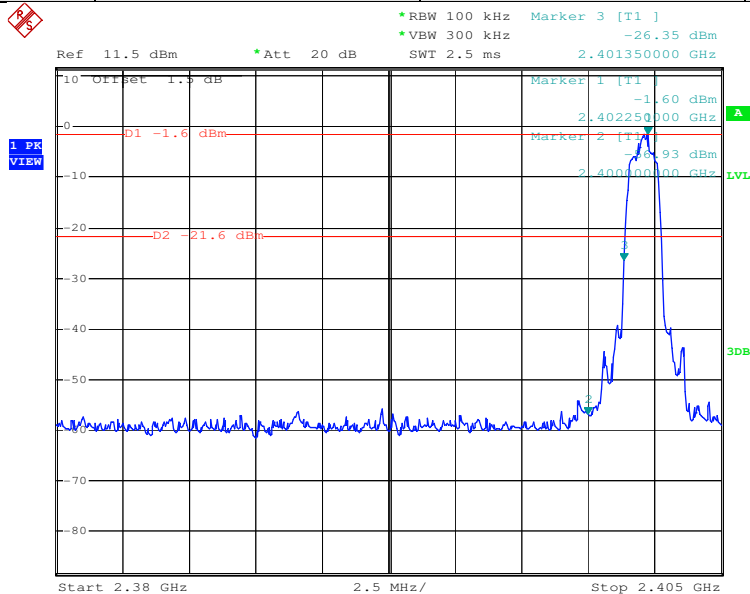


Date: 6.JUN.2010 16:07:50

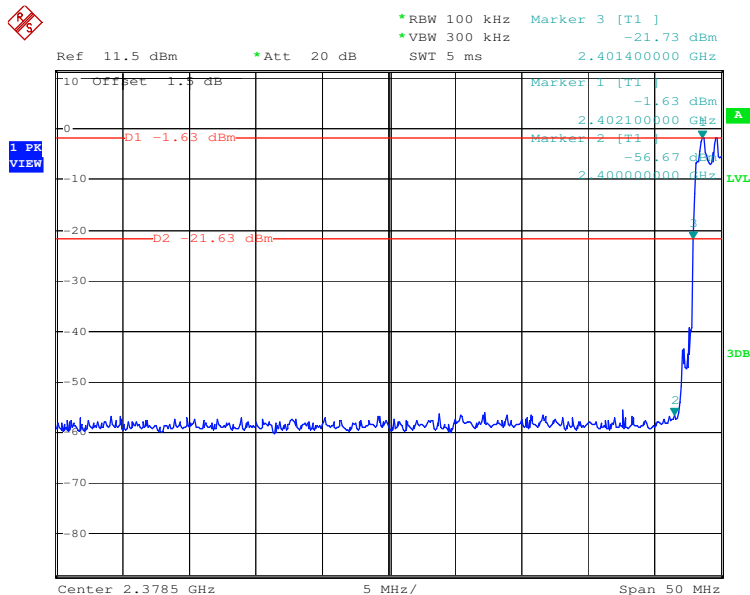
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Test mode:	Pi/4QPSK	Test channel:	Lowest
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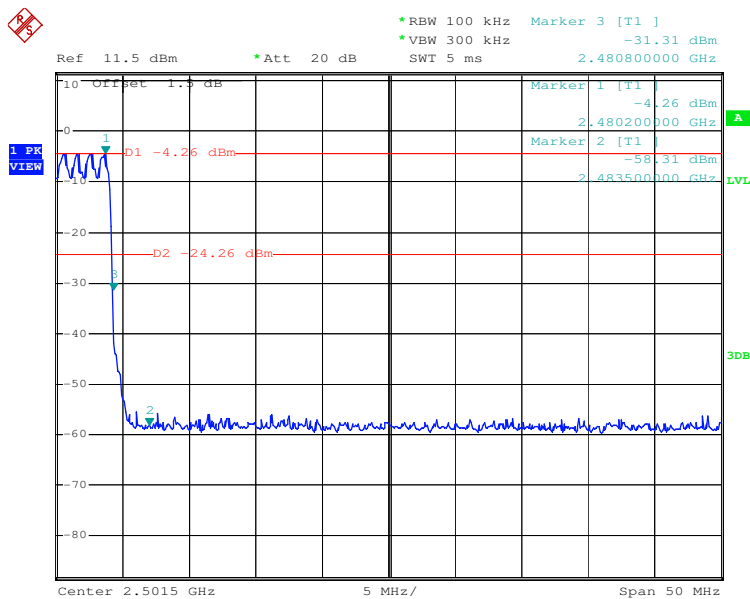
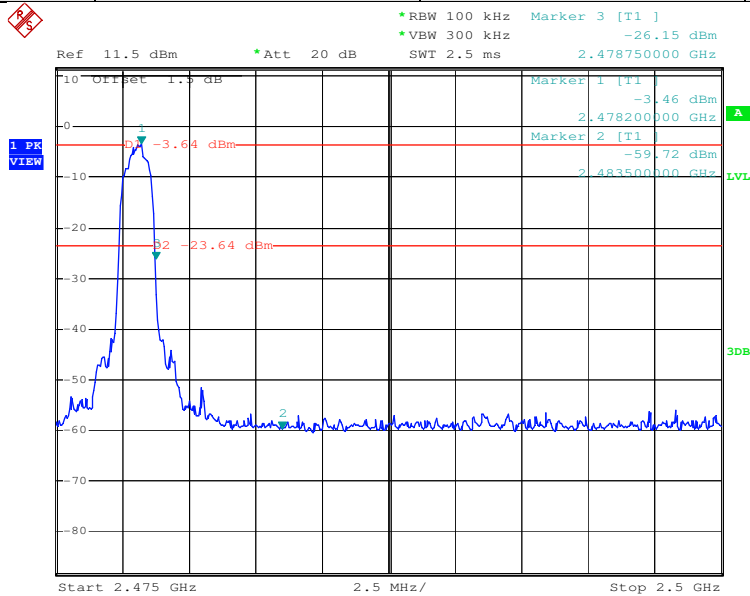
Date: 6.JUN.2010 16:35:44



Date: 6.JUN.2010 16:43:37

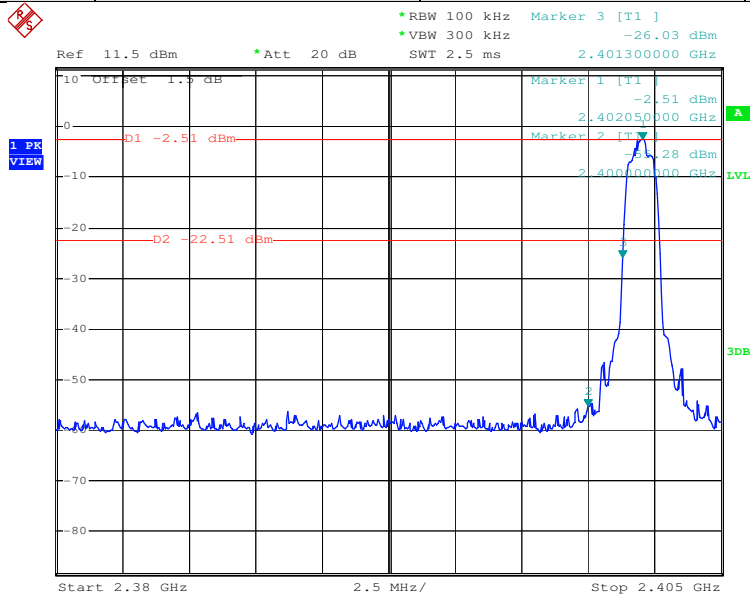


Test mode:	Pi/4QPSK	Test channel:	Highest
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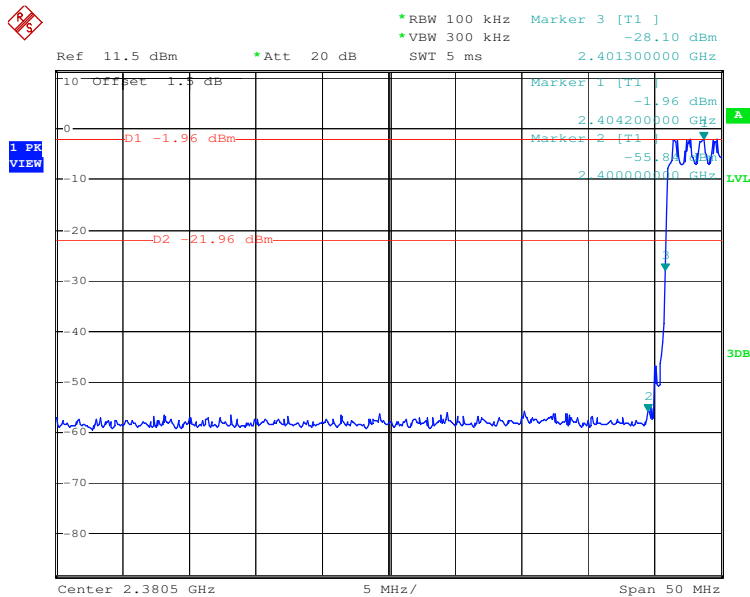




Test mode:	8DPSK	Test channel:	Lowest
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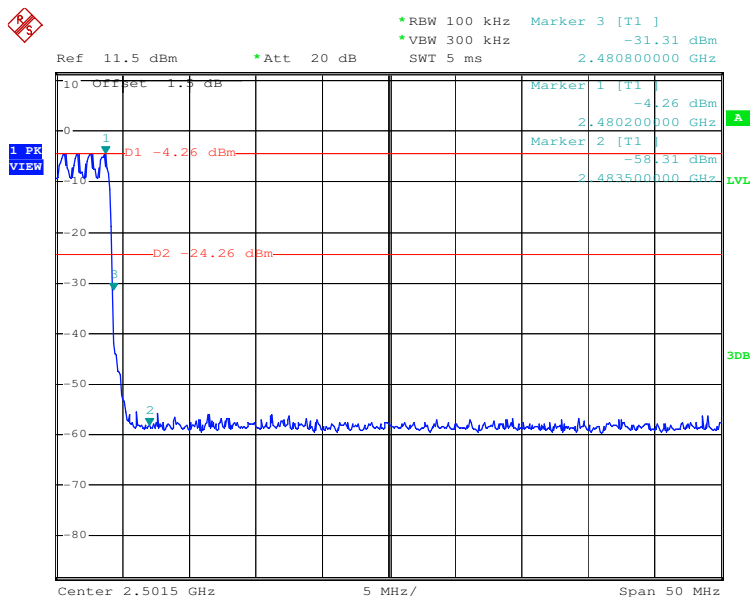
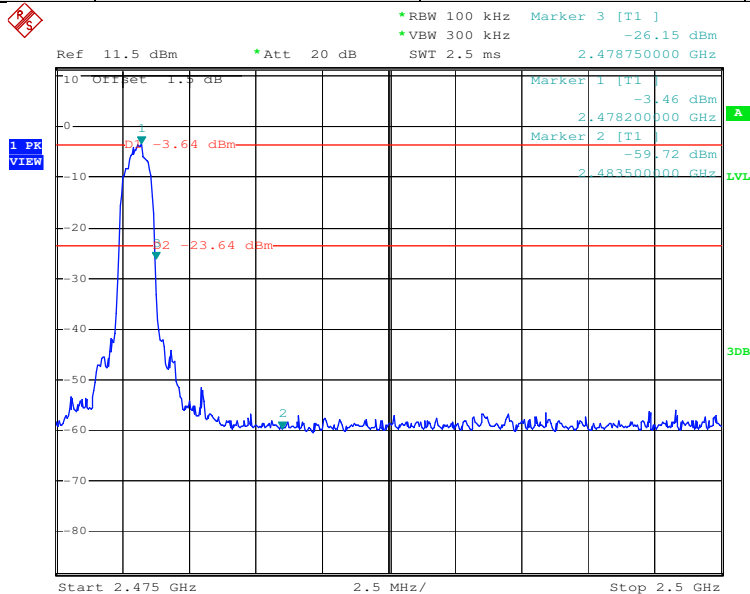
Date: 7.JUN.2010 10:22:56



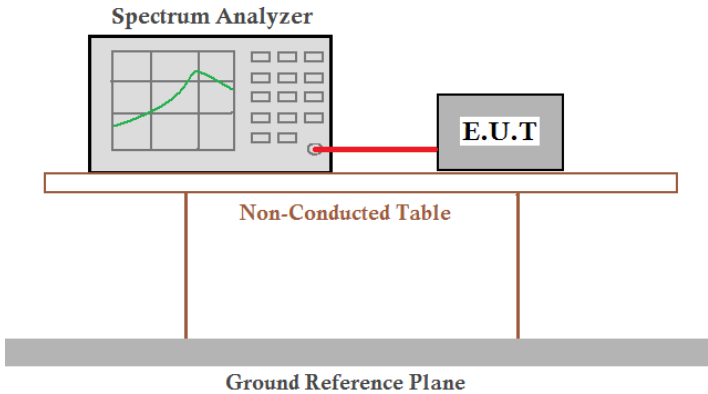
Date: 7.JUN.2010 10:27:04



Test mode:	8DPSK	Test channel:	Highest
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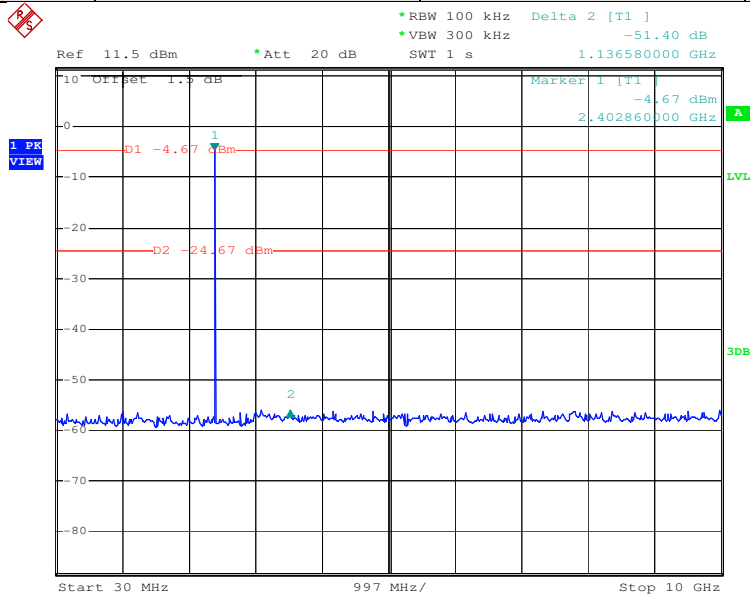


5.9 RF Antenna Conducted spurious emissions

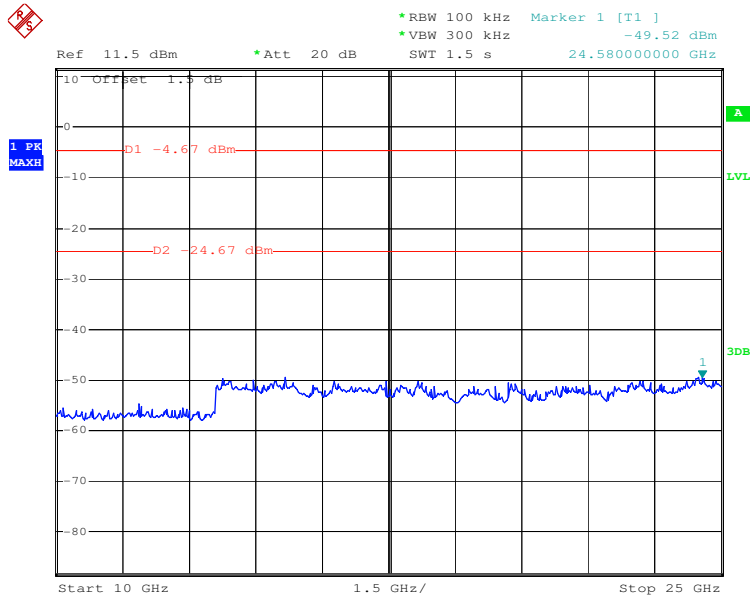
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB DA00-705
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed



Test mode:	GFSK	Test channel:	Lowest
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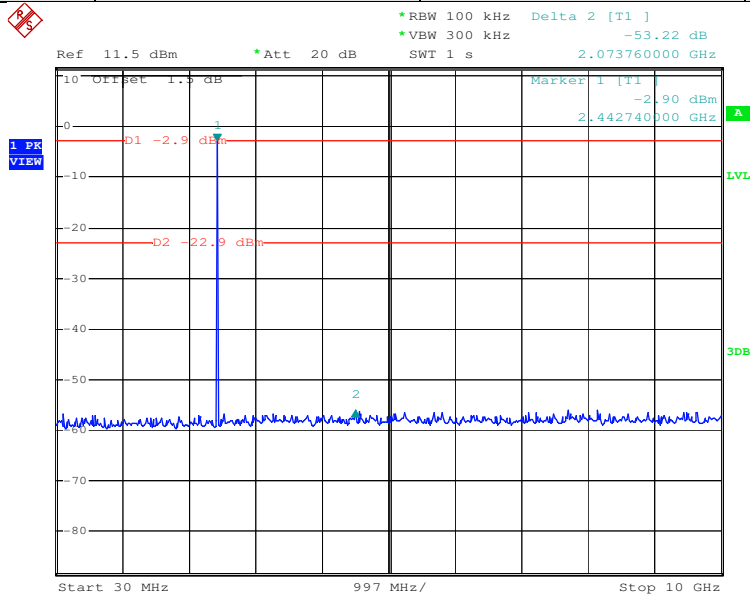
Date: 4.JUN.2010 16:15:28



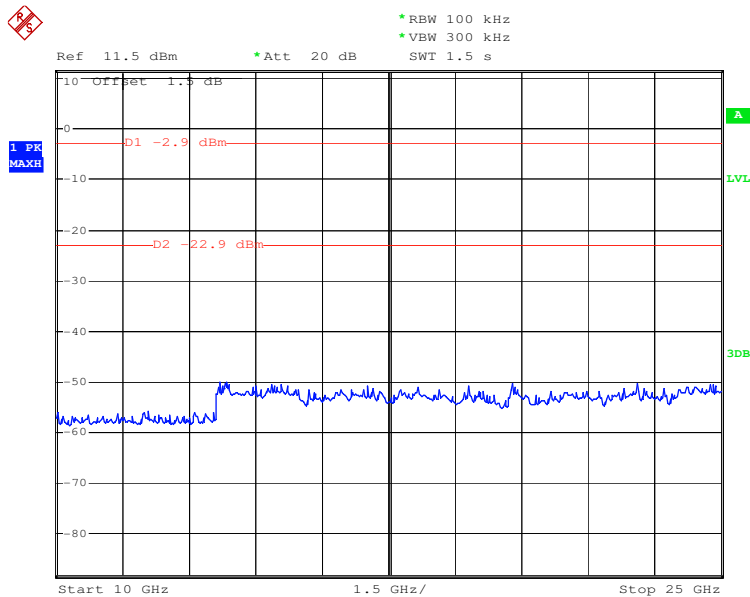
Date: 4.JUN.2010 16:16:14



Test mode:	GFSK	Test channel:	Middle
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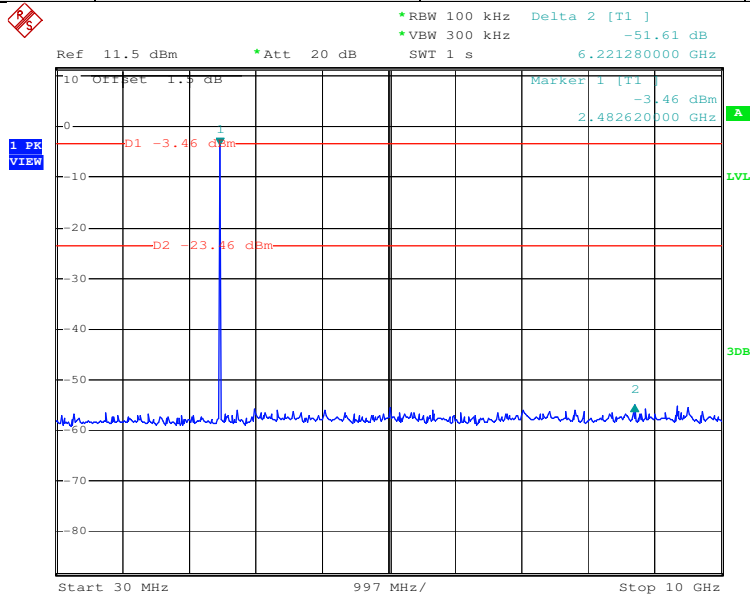
Date: 4.JUN.2010 16:41:08



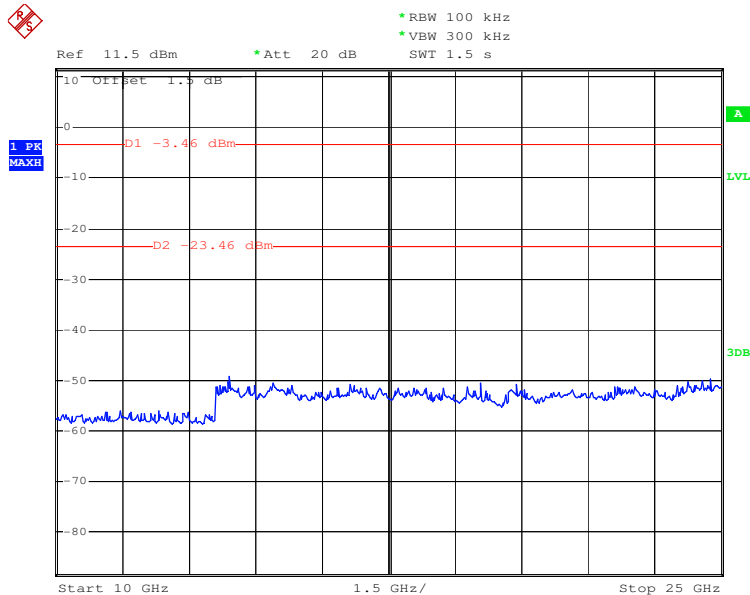
Date: 4.JUN.2010 16:41:25



Test mode:	GFSK	Test channel:	Highest
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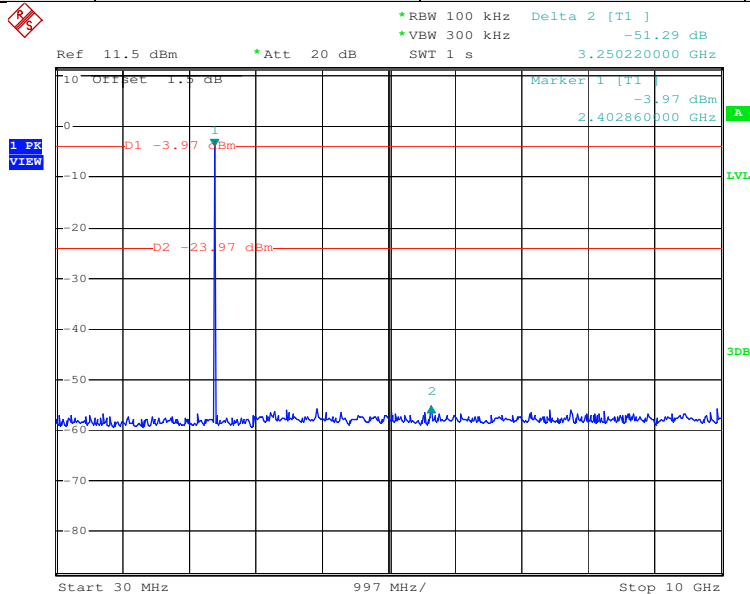
Date: 6.JUN.2010 15:53:10



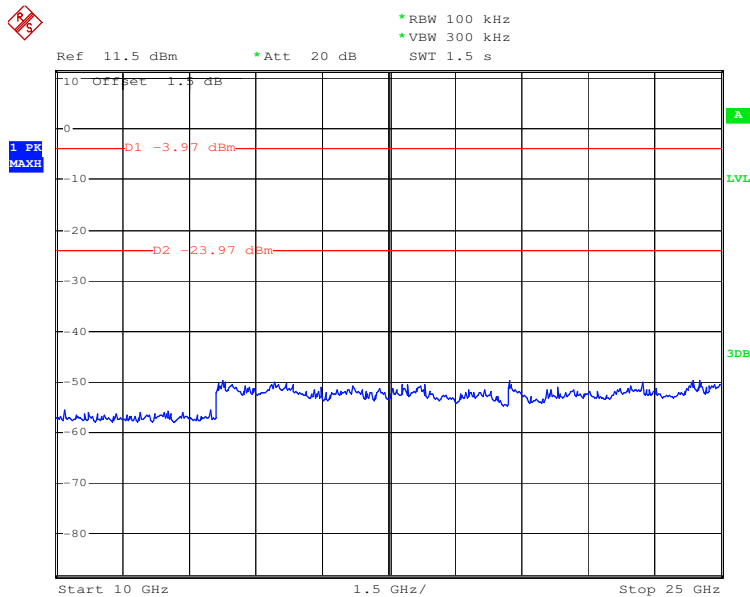
Date: 6.JUN.2010 15:53:31



Test mode:	Pi/4QPSK	Test channel:	Lowest
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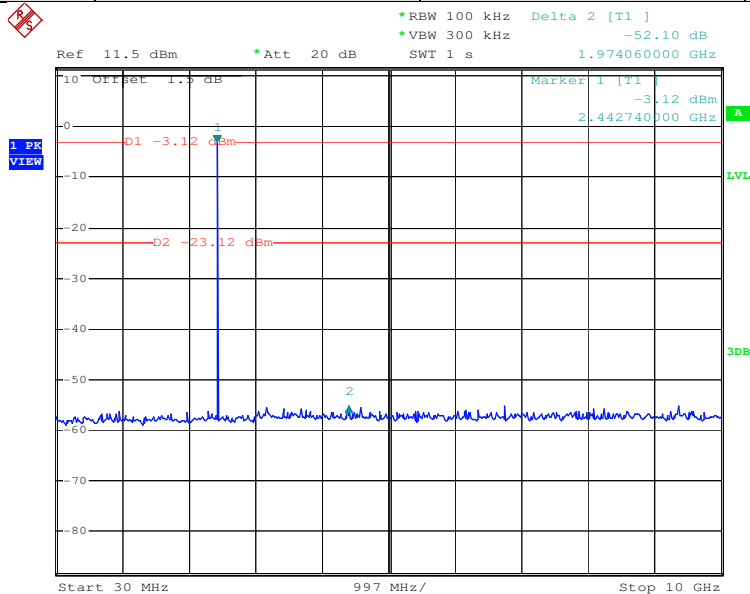
Date: 6.JUN.2010 16:36:38



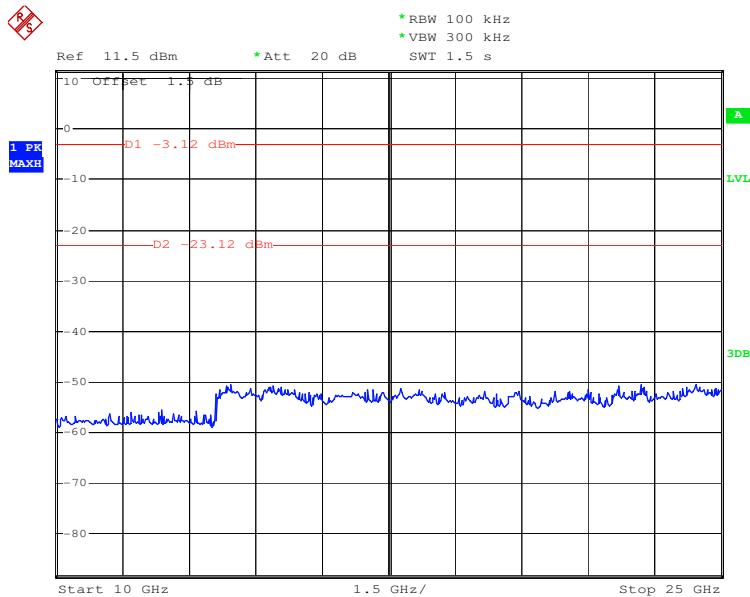
Date: 6.JUN.2010 16:37:24



Test mode:	Pi/4QPSK	Test channel:	Middle
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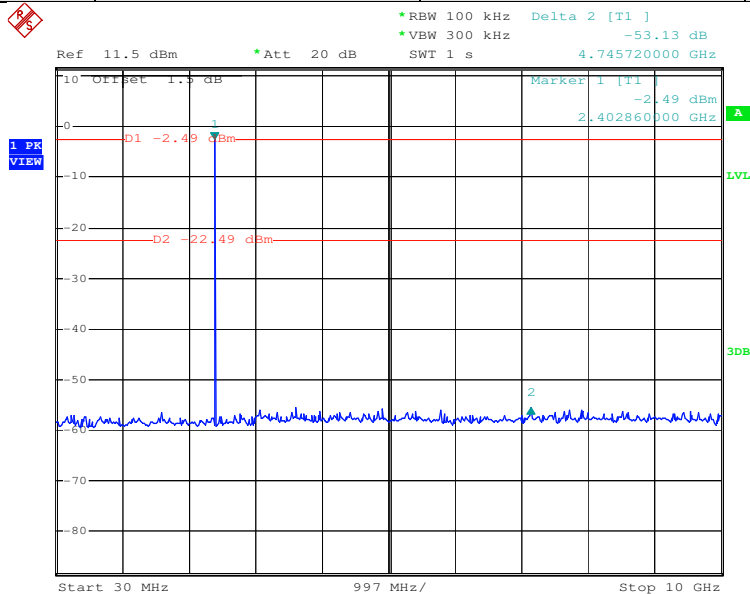
Date: 6.JUN.2010 16:23:39



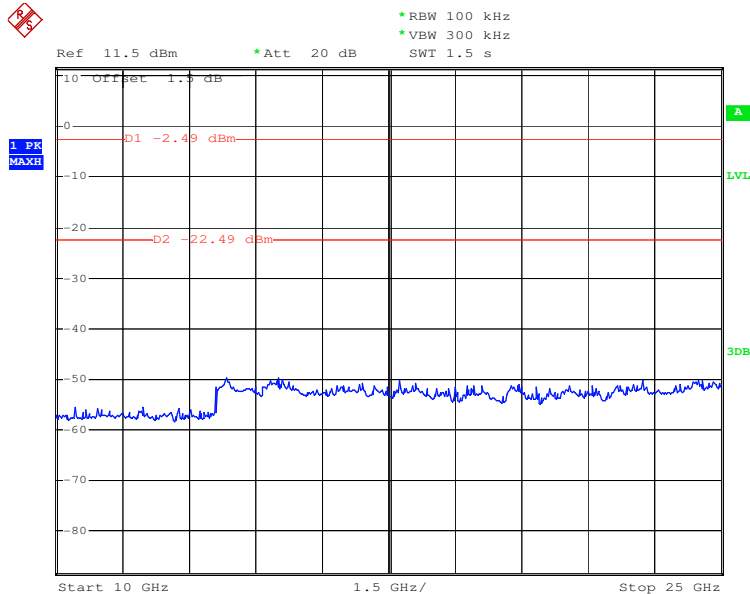
Date: 6.JUN.2010 16:24:04



Test mode:	Pi/4QPSK	Test channel:	Highest
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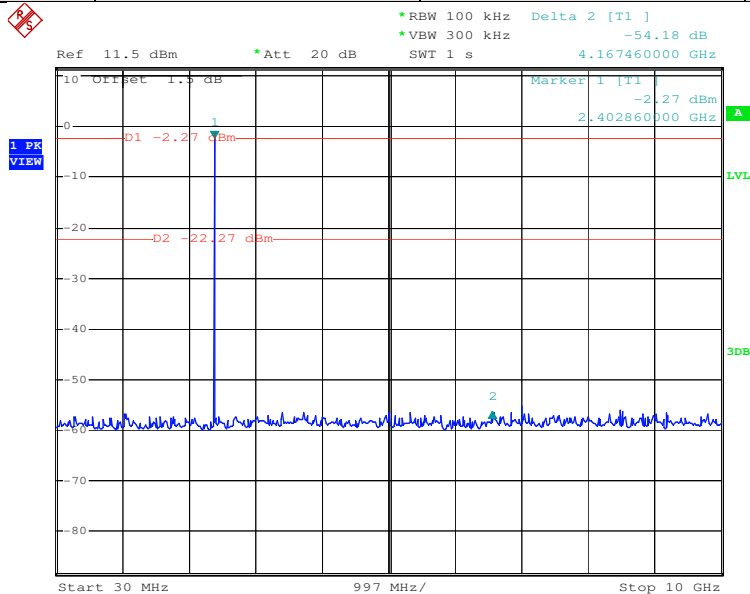
Date: 6.JUN.2010 16:13:46



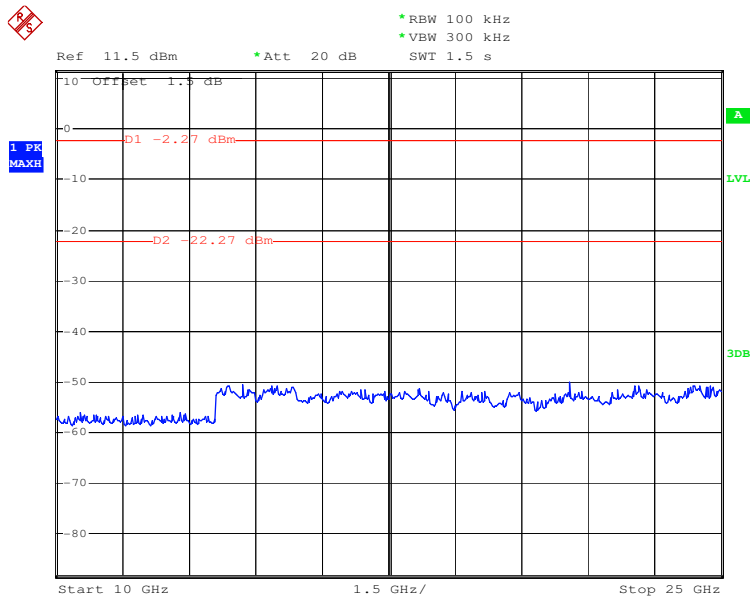
Date: 6.JUN.2010 16:14:24



Test mode:	8DPSK	Test channel:	Lowest
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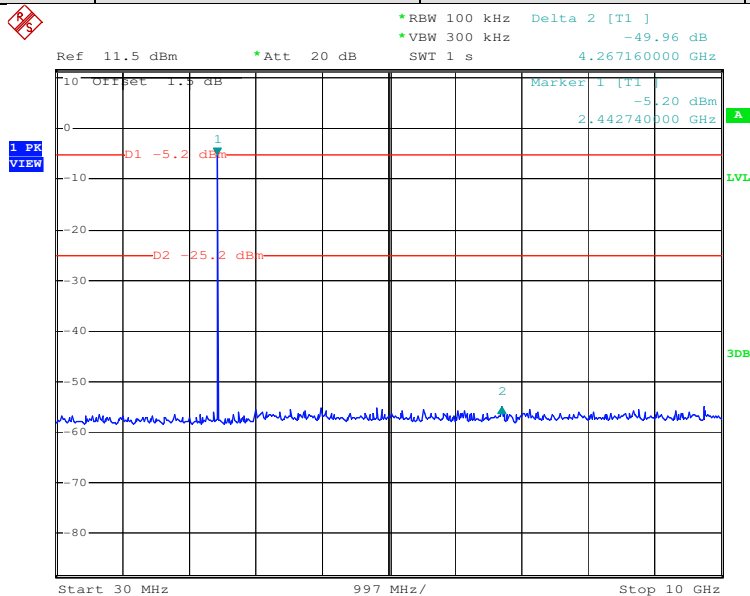


Date: 7.JUN.2010 10:23:33

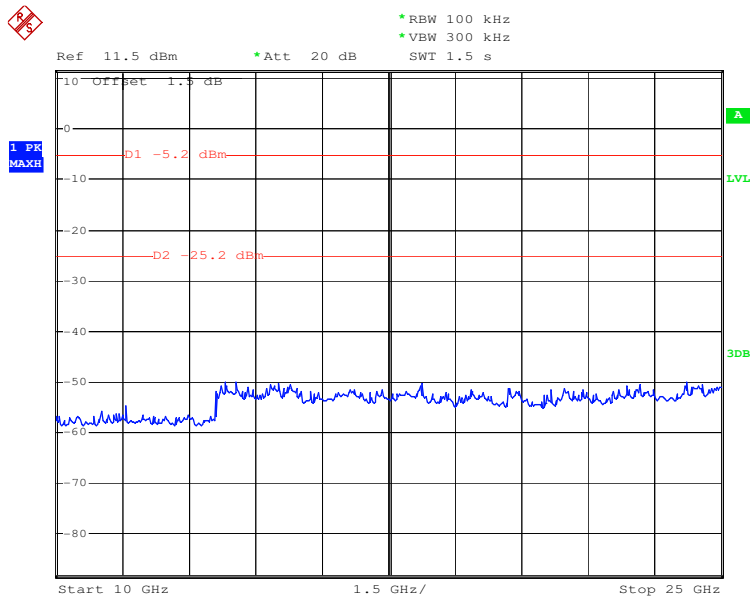


Date: 7.JUN.2010 10:23:50

Test mode:	8DPSK	Test channel:	Middle
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Date: 8.JUN.2010 09:24:33

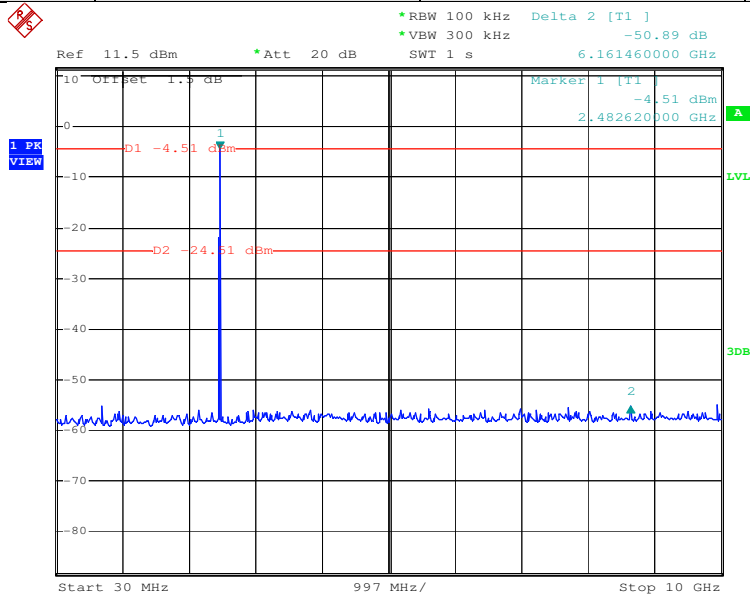


Date: 8.JUN.2010 09:24:59

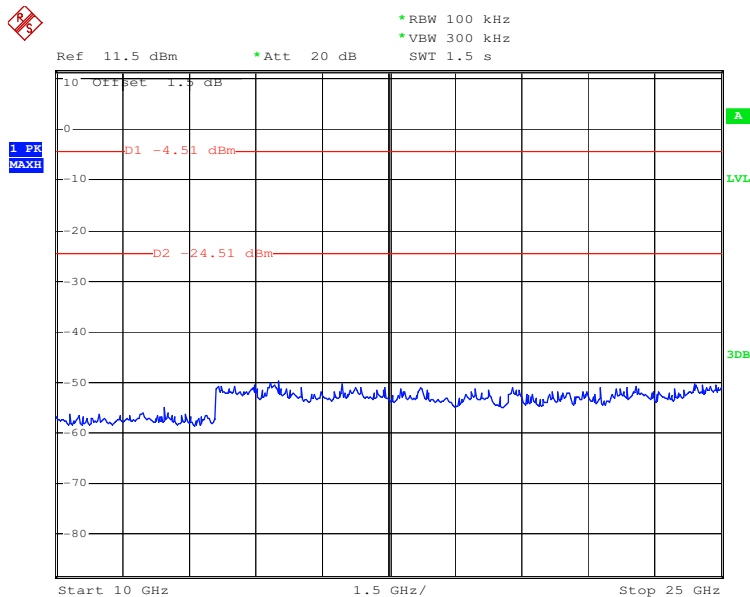
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Test mode:	8DPSK	Test channel:	Highest
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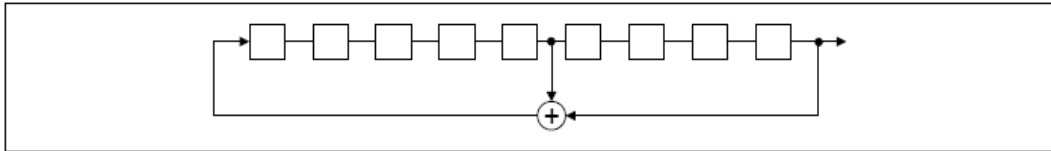
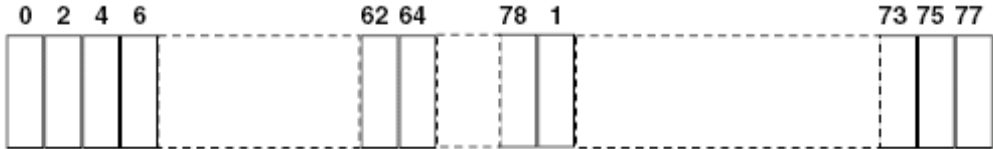


Date: 8.JUN.2010 09:41:18



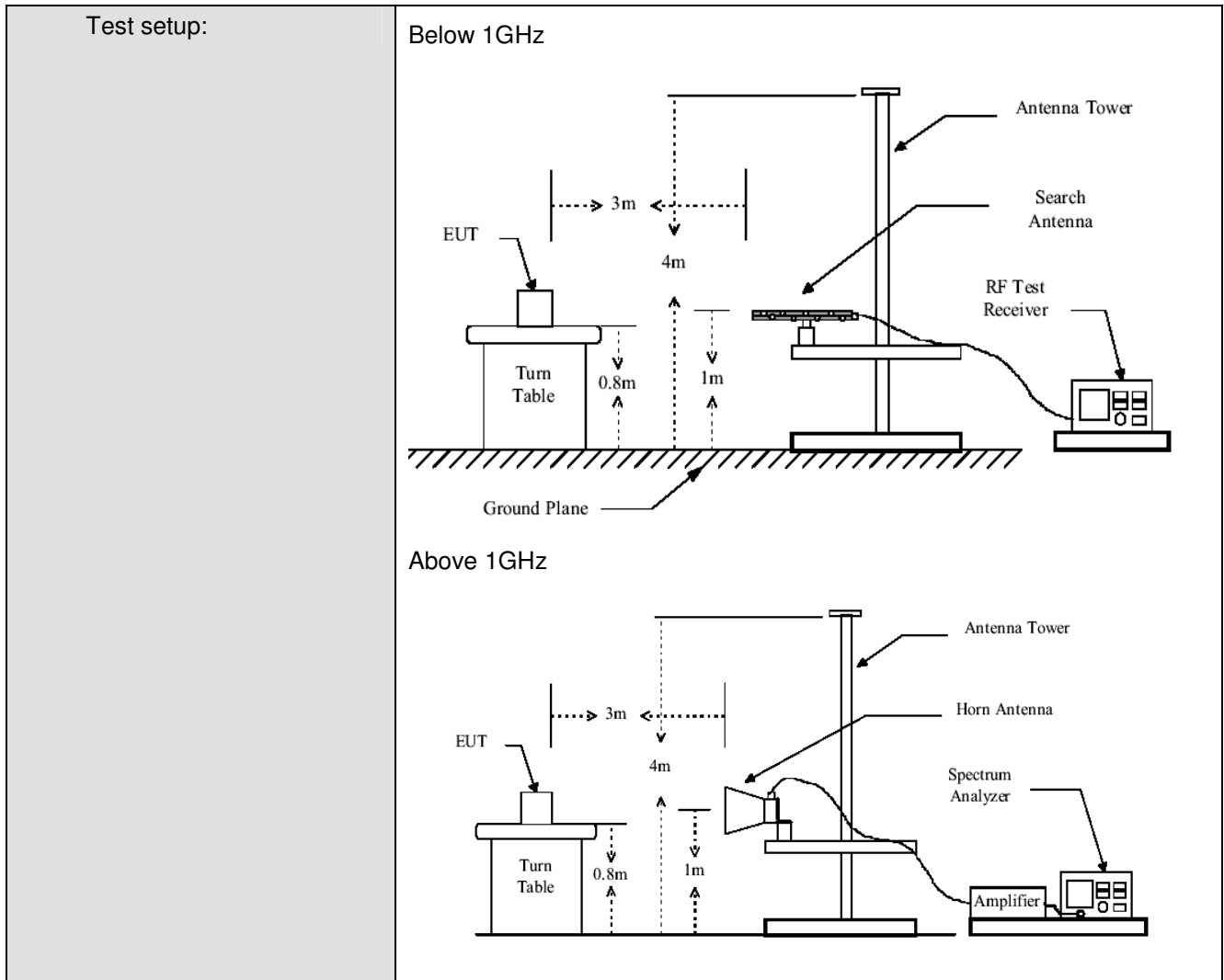
Date: 8.JUN.2010 09:41:38

5.10 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:
<p>Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.</p>	
EUT Pseudorandom Frequency Hopping Sequence	
<p>The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.</p> <ul style="list-style-type: none"> • Number of shift register stages: 9 • Length of pseudo-random sequence: $2^9 - 1 = 511$ bits • Longest sequence of zeros: 8 (non-inverted signal)  <p style="text-align: center;"><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p>  <p>Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.</p>	

5.11 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4: 2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	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:	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:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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.</p>				
Test Instruments:	Refer to section 4.7 for details				
Test mode:	<p>Non-hopping transmitting with modulation.</p> <p>1. Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.</p> <p>2. Test the EUT in Bluetooth mode, charge mode, charge + Bluetooth mode</p> <p>Pre-scan were performed on the EUT on above three modes, and then found the charge mode was the worst case mode.</p> <p>Only the worst case mode and Bluetooth mode was displayed.</p>				
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:

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

**5.11.1 Radiated emission below 1GHz****Old****Bluetooth mode**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.880	0.60	13.51	28.15	34.79	20.75	40.00	-19.25	Vertical
38.730	0.60	11.60	28.10	37.49	21.59	40.00	-18.41	Vertical
69.770	0.80	6.91	28.00	37.67	17.38	40.00	-22.62	Vertical
106.630	1.22	8.77	27.81	31.95	14.13	43.50	-29.37	Vertical
239.520	1.62	11.99	26.96	29.29	15.94	46.00	-30.06	Vertical
709.970	2.93	21.60	27.25	30.83	28.11	46.00	-17.89	Vertical
40.670	0.62	11.53	28.09	28.53	12.59	40.00	-27.41	Horizontal
67.830	0.80	6.96	28.01	28.39	8.14	40.00	-31.86	Horizontal
172.590	1.36	9.61	27.31	28.39	12.05	43.50	-31.45	Horizontal
359.800	2.09	15.65	27.16	29.17	19.75	46.00	-26.25	Horizontal
521.790	2.62	18.45	27.69	30.12	23.50	46.00	-22.50	Horizontal
794.360	3.18	22.08	26.96	29.81	28.11	46.00	-17.89	Horizontal

Charge mode

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
36.790	0.60	12.30	28.12	41.08	25.86	40.00	-14.14	Vertical
45.520	0.72	9.34	28.10	50.70	32.66	40.00	-7.34	Vertical
97.900	1.18	9.02	27.89	44.22	26.53	43.50	-16.97	Vertical
237.580	1.61	11.90	26.97	30.90	17.44	46.00	-28.56	Vertical
436.430	2.36	16.62	27.53	32.46	23.91	46.00	-22.09	Vertical
836.070	3.35	22.40	26.75	32.26	31.26	46.00	-14.74	Vertical
44.550	0.70	10.21	28.10	30.43	13.24	40.00	-26.76	Horizontal
100.810	1.20	9.06	27.87	37.83	20.22	43.50	-23.28	Horizontal
201.690	1.41	10.28	27.14	29.71	14.26	43.50	-29.24	Horizontal
332.640	2.01	15.01	26.97	30.01	20.06	46.00	-25.94	Horizontal
480.080	2.53	17.80	27.65	30.59	23.27	46.00	-22.73	Horizontal
770.110	3.12	21.93	27.04	32.10	30.11	46.00	-15.89	Horizontal

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

**New****Bluetooth mode**

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
32.910	0.60	13.91	28.16	28.24	14.59	40.00	-25.41	Vertical
102.750	1.21	8.97	27.85	27.96	10.29	43.50	-33.21	Vertical
253.100	1.69	12.38	26.90	27.91	15.08	46.00	-30.92	Vertical
419.940	2.29	16.38	27.47	28.49	19.69	46.00	-26.31	Vertical
602.300	2.70	19.86	27.61	27.95	22.90	46.00	-23.10	Vertical
917.550	3.62	23.27	26.43	29.52	29.98	46.00	-16.02	Vertical
31.940	0.60	14.31	28.17	25.04	11.78	40.00	-28.22	Horizontal
87.230	1.10	8.45	27.96	26.31	7.90	40.00	-32.10	Horizontal
206.540	1.44	10.52	27.12	24.98	9.82	43.50	-33.68	Horizontal
385.990	2.16	16.13	27.33	26.79	17.75	46.00	-28.25	Horizontal
644.980	2.80	20.58	27.46	26.97	22.89	46.00	-23.11	Horizontal
920.460	3.62	23.29	26.43	26.94	27.42	46.00	-18.58	Horizontal

**5.11.2 Transmitter emission above 1GHz**

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2339.500	6.08	29.81	39.59	46.73	43.03	74.00	-30.97	Vertical
3714.250	7.41	32.79	39.28	47.46	48.38	74.00	-25.62	Vertical
4804.000	9.36	34.25	41.53	46.07	48.15	74.00	-25.85	Vertical
7206.000	13.38	37.23	40.98	46.26	55.89	74.00	-18.11	Vertical
9608.000	13.39	37.99	37.56	41.87	55.69	74.00	-18.31	Vertical
12010.000	16.45	39.10	39.09	42.37	58.83	74.00	-15.17	Vertical
2339.500	6.08	29.81	39.59	44.76	41.06	74.00	-32.94	Horizontal
3338.250	7.02	32.34	39.39	47.66	47.63	74.00	-26.37	Horizontal
4804.000	9.36	34.25	41.53	46.49	48.57	74.00	-25.43	Horizontal
7206.000	13.38	37.23	40.98	45.87	55.50	74.00	-18.50	Horizontal
9608.000	13.39	37.99	37.56	42.76	56.58	74.00	-17.42	Horizontal
12010.000	16.45	39.10	39.09	42.27	58.73	74.00	-15.27	Horizontal

Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
2339.500	6.08	29.81	39.59	36.50	32.80	54.00	-21.20	Vertical
3714.000	7.41	32.79	39.28	37.50	38.42	54.00	-15.58	Vertical
4804.000	9.36	34.25	41.53	36.50	38.58	54.00	-15.42	Vertical
7206.000	13.38	37.23	40.98	35.40	45.03	54.00	-8.97	Vertical
9608.000	13.39	37.99	37.56	31.19	45.01	54.00	-8.99	Vertical
12010.000	16.45	39.10	39.09	31.20	47.66	54.00	-6.34	Vertical
2339.500	6.08	29.81	39.59	34.20	30.50	54.00	-23.50	Horizontal
3338.000	7.02	32.34	39.39	36.51	36.48	54.00	-17.52	Horizontal
4804.000	9.36	34.25	41.53	35.80	37.88	54.00	-16.12	Horizontal
7206.000	13.38	37.23	40.98	34.20	43.83	54.00	-10.17	Horizontal
9608.000	13.39	37.99	37.56	31.19	45.01	54.00	-8.99	Horizontal
12010.000	16.45	39.10	39.09	30.10	46.56	54.00	-7.44	Horizontal



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Worse case mode:	GFSK	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1987.000	5.36	28.47	38.81	46.09	41.11	74.00	-32.89	Vertical
3197.250	7.03	32.16	39.43	46.15	45.91	74.00	-28.09	Vertical
4882.000	10.57	34.35	40.33	47.82	52.41	74.00	-21.59	Vertical
7323.000	12.91	37.31	40.40	46.09	55.91	74.00	-18.09	Vertical
9764.000	13.89	38.03	37.94	43.20	57.18	74.00	-16.82	Vertical
12205.000	17.95	39.23	39.30	43.26	61.14	74.00	-12.86	Vertical
1893.000	5.51	28.24	39.83	44.89	38.81	74.00	-35.19	Horizontal
3749.500	7.45	32.82	39.70	46.11	46.68	74.00	-27.32	Horizontal
4882.000	10.57	34.35	40.33	45.41	50.00	74.00	-24.00	Horizontal
7323.000	12.91	37.31	40.40	45.59	55.41	74.00	-18.59	Horizontal
9764.000	13.89	38.03	37.94	44.12	58.10	74.00	-15.90	Horizontal
12205.000	17.95	39.23	39.30	42.02	59.90	74.00	-14.10	Horizontal

Worse case 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	polarization
1987.000	5.36	28.47	38.81	36.80	31.82	54.00	-22.18	Vertical
3197.000	7.03	32.16	39.43	35.80	35.56	54.00	-18.44	Vertical
4882.000	10.57	34.35	40.33	37.39	41.98	54.00	-12.02	Vertical
7323.000	12.91	37.31	40.40	33.30	43.12	54.00	-10.88	Vertical
9764.000	13.89	38.03	37.94	30.80	44.78	54.00	-9.22	Vertical
12205.000	17.95	39.23	39.30	29.50	47.38	54.00	-6.62	Vertical
1893.000	5.51	28.24	39.83	34.49	28.41	54.00	-25.59	Horizontal
3749.000	7.45	32.82	39.70	35.21	35.78	54.00	-18.22	Horizontal
4882.000	10.57	34.35	40.33	35.59	40.18	54.00	-13.82	Horizontal
7323.000	12.91	37.31	40.40	33.40	43.22	54.00	-10.78	Horizontal
9764.000	13.89	38.03	37.94	31.80	45.78	54.00	-8.22	Horizontal
12205.000	17.95	39.23	39.30	30.50	48.38	54.00	-5.62	Horizontal

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Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.000	10.43	34.45	41.03	46.43	50.28	74.00	-23.72	Vertical
2057.500	5.60	28.74	39.32	46.22	41.24	74.00	-32.76	Vertical
3185.500	7.08	32.15	39.48	48.25	48.00	74.00	-26.00	Vertical
4960.000	10.43	34.45	41.03	46.32	50.17	74.00	-23.83	Vertical
7440.000	12.72	37.37	40.01	45.40	55.48	74.00	-18.52	Vertical
9920.000	14.24	38.08	37.78	41.56	56.10	74.00	-17.90	Vertical
12400.000	17.55	39.34	39.48	43.49	60.90	74.00	-13.10	Horizontal
2069.250	5.66	28.79	39.45	45.86	40.86	74.00	-33.14	Horizontal
3291.250	6.90	32.28	39.11	48.82	48.89	74.00	-25.11	Horizontal
4960.000	10.43	34.45	41.03	46.95	50.80	74.00	-23.20	Horizontal
7440.000	12.72	37.37	40.01	46.18	56.26	74.00	-17.74	Horizontal
9920.000	14.24	38.08	37.78	43.36	57.90	74.00	-16.10	Horizontal

Worse case mode:	GFSK	Test channel:	Highest	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	polarization
2057.500	5.60	28.74	39.32	36.50	31.52	54.00	-22.48	Vertical
3185.000	7.08	32.15	39.48	37.60	37.35	54.00	-16.65	Vertical
4960.000	10.43	34.45	41.03	36.20	40.05	54.00	-13.95	Vertical
7440.000	12.72	37.37	40.01	33.40	43.48	54.00	-10.52	Vertical
9920.000	14.24	38.08	37.78	30.40	44.94	54.00	-9.06	Vertical
12400.000	17.55	39.34	39.48	29.60	47.01	54.00	-6.99	Vertical
2069.250	5.66	28.79	39.45	35.40	30.40	54.00	-23.60	Horizontal
3291.000	6.90	32.28	39.11	37.60	37.67	54.00	-16.33	Horizontal
4960.000	10.43	34.45	41.03	35.50	39.35	54.00	-14.65	Horizontal
7440.000	12.72	37.37	40.01	34.10	44.18	54.00	-9.82	Horizontal
9920.000	14.24	38.08	37.78	28.40	42.94	54.00	-11.06	Horizontal
12400.000	17.55	39.34	39.48	29.60	47.01	54.00	-6.99	Horizontal

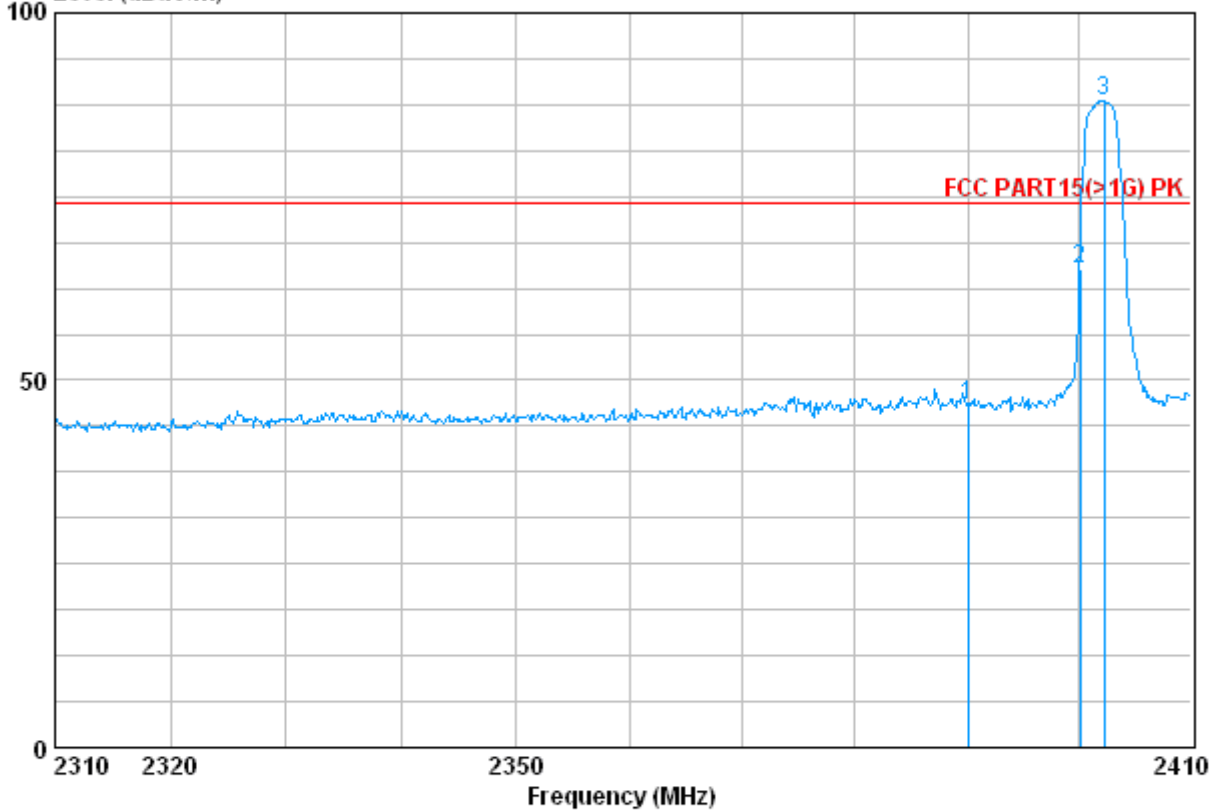
Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



5.11.3 Band Edge and Restricted band (Radiated measurement)

Test mode:	GFSK	Test channel:	Lowest	Polarization:	Vertical
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Data: 57
Level (dBuV/m)



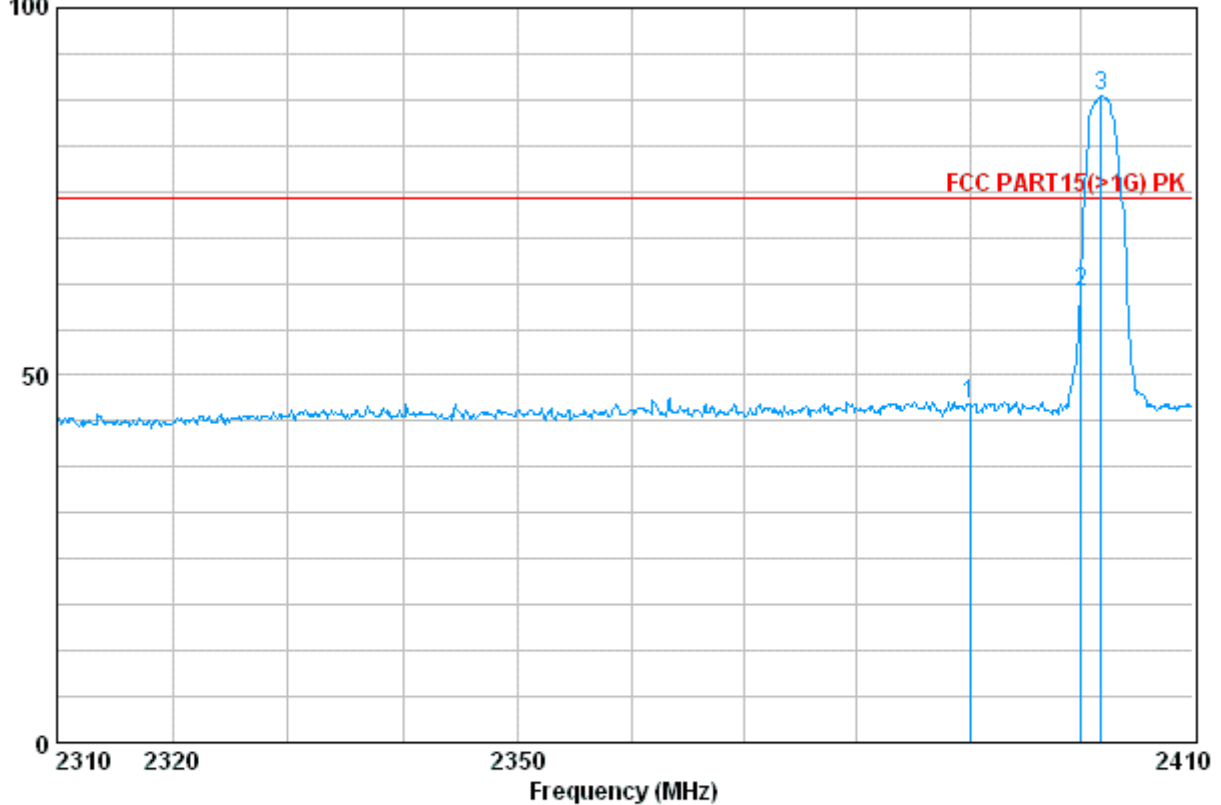
	Freq	Cable	Antenna	Preamp	Read		Limit	Over
		Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	47.18	46.67	74.00	-27.33
2	2400.000	6.34	32.25	38.87	65.42	65.14	74.00	-8.86
3 0	2402.200	6.34	32.25	38.87	88.21	87.92	74.00	13.92



Test mode:	GFSK	Test channel:	Lowest	Polarization:	Horizontal
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Data: 58

Level (dBuV/m)

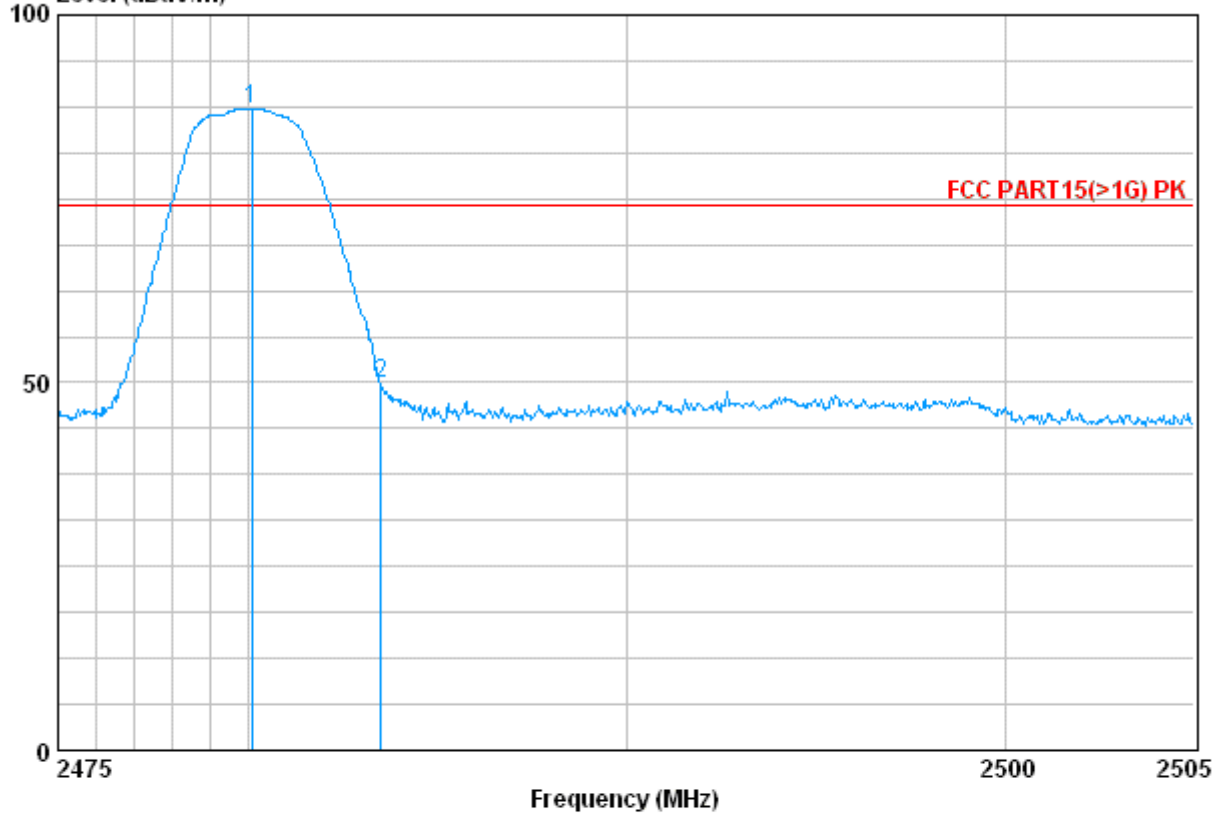


		CableAntenna Preamp			Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	6.28	32.24	39.03	46.53	46.02	74.00	-27.98
2	2400.000	6.34	32.25	38.87	61.60	61.32	74.00	-12.68
3 @	2401.800	6.34	32.25	38.87	88.16	87.88	74.00	13.88



Test mode:	GFSK	Test channel:	Highest	Polarization:	Vertical
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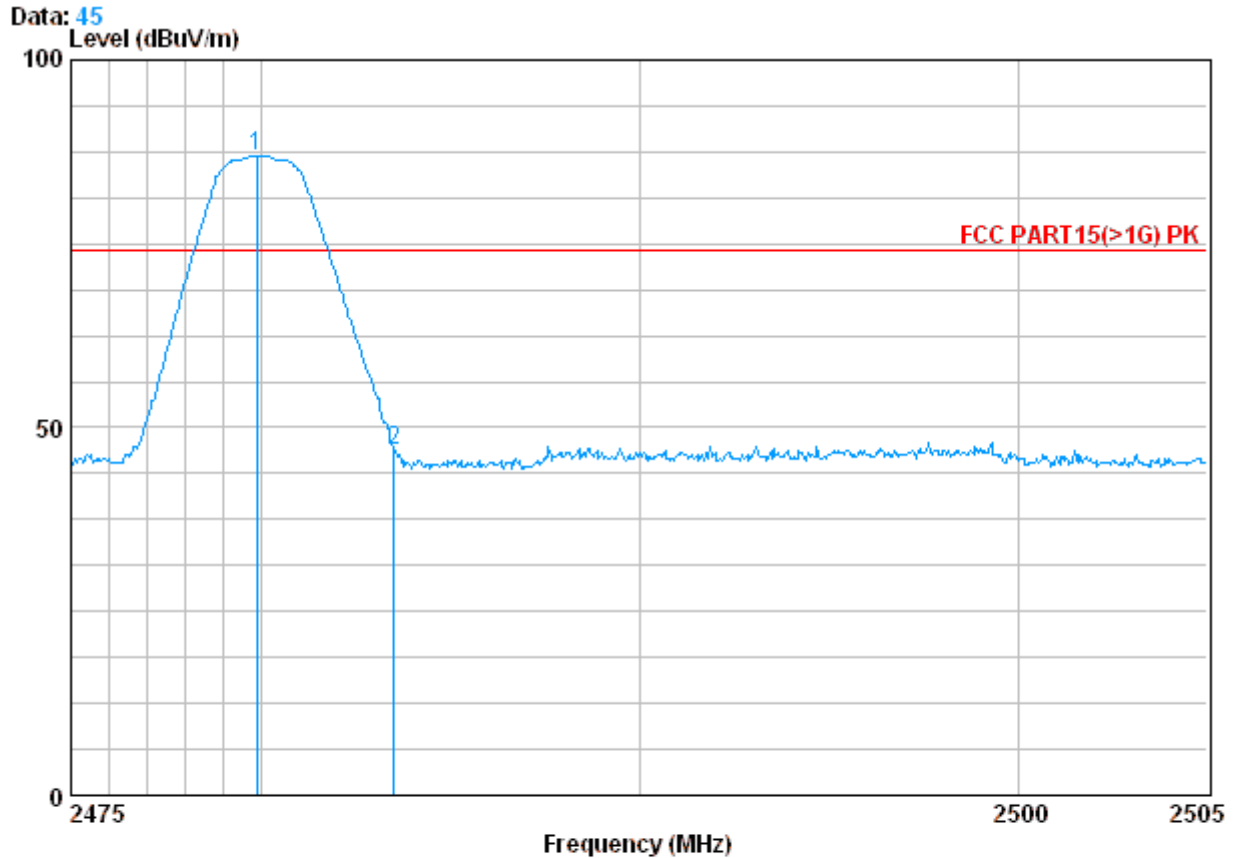
Data: 46
Level (dBuV/m)



	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0	2480.100	6.45	32.29	39.72	88.21	87.23	74.00	13.23
2	2483.500	6.22	32.29	39.53	50.94	49.93	74.00	-24.07



Test mode:	GFSK	Test channel:	Highest	Polarization:	Horizontal
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	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 0	2479.890	6.45	32.29	39.72	87.99	87.01	74.00 13.01
2	2483.500	6.22	32.29	39.53	48.00	46.98	74.00 -27.02

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