

EMC

TEST REPORT

Report No.: TS10080128-EME

**Model No.: HPL-108,
IVT-BPM01**

Issued Date: Sep. 03, 2010

Applicant: Mytech Technology Co., Ltd.
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Test Method/ Standard: 47 CFR FCC Part 15.249 & ANSI C63.4 2003

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Summary of Tests

Test	Reference	Results
Radiated Emission test	15.249(c), 15.209	Pass
Emission on the Band Edge	15.249(d)	Pass
Calculation of Average Factor	15.35	Pass
Additional provisions	15.215(c)	Pass

1. General information

1.1 Identification of the EUT

Product: Bluetooth Blood Pressure Monitor for Wrist
Model No.: HPL-108
FCC ID.: YRM-HPL-108
Frequency Range: 2402 MHz ~ 2480 MHz
Channel Number: 79 channels
Rated Power: DC 3 V from batteries
Power Cord: N/A
Data Cable: N/A
Sample Received: Aug. 19, 2010
Test Date(s): Aug. 23, 2010 ~ Aug. 30, 2010
Note 1: This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
Note 2: When determining the test conclusion, the Measurement Uncertainty of test has been considered.

1.2 Additional information about the EUT

The main function of HPL-108(EUT) is to send 2.4GHz Bluetooth RF signals.

The model listed below is identical to model HPL-108 (EUT).Different brand serves as marketing strategy.

Trade Name	Model Number
IVT	IVT-BPM01
Zephyr	HPL-108

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Type: Chip antenna

Connector Type: N/A

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was continuously transmitting during the test.

The EUT has GFSK, $\pi/4$ DPSK and 8DPSK modulations. After verifying the three modulations, we found the maximum output power was occurred at low channel by GFSK modulation. The final test was executed under this condition and recorded in this report individually.

2.3 Test equipment

Equipment	Brand	Frequency range	Model No.	Serial No.	Calibration Date	Calibration Due Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCI	100059	Nov. 13, 2009	Nov. 13, 2010
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	100137	Aug. 16, 2010	Aug. 16, 2011
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	100186	Jan. 18, 2010	Jan. 18, 2011
Horn Antenna	SCHWARZBECK	1GHz~18GHz	BBHA 9120 D	9120D-456	Oct. 06, 2008	Oct. 06, 2010
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCI	100018	Dec. 08, 2009	Dec. 08, 2010
Broadband Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9168	9168-172	Sep. 22, 2009	Sep. 22, 2011
Turn Table	HDGmbH	N/A	DS 420S	N/A	N/A	N/A
Antenna Tower	HDGmbH	N/A	MA 240	N/A	N/A	N/A
Pre-Amplifier	MITEQ	100MHz~26.5GHz	AFS44-00102650-42-10P-44	1495287	Oct. 27, 2009	Oct. 27, 2011
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5	825562/003	Mar. 13, 2009	Mar. 13, 2011

Note: The above equipments are within the valid calibration period.

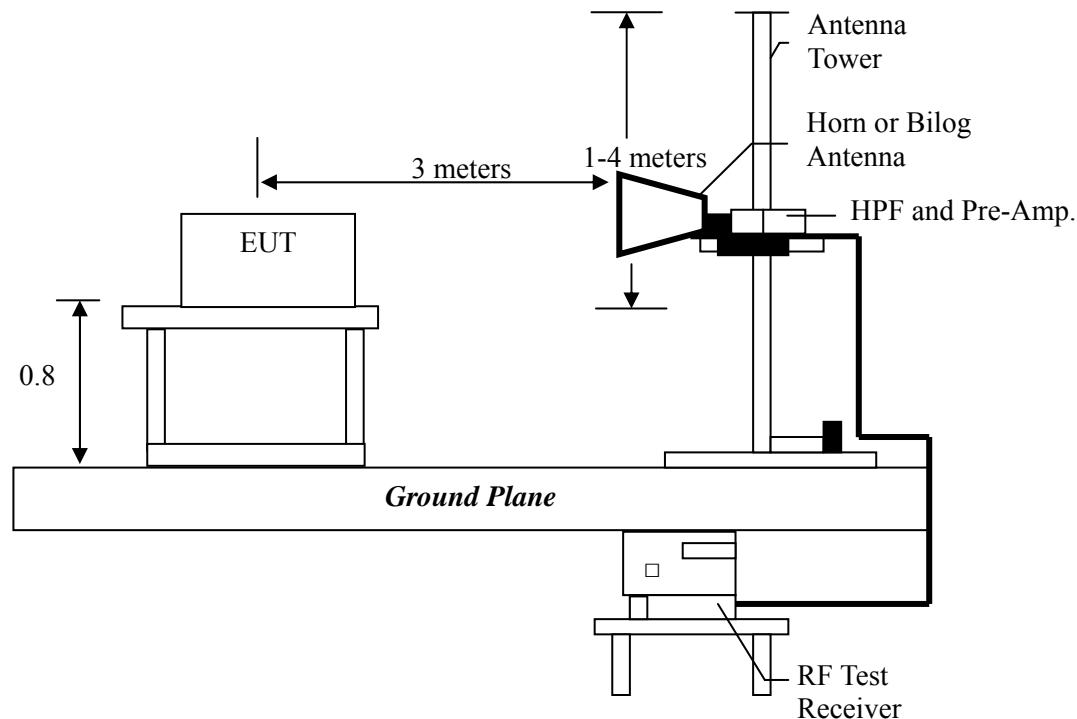
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature: 22 °C
Relative Humidity: 56 %
Atmospheric Pressure 1024 hPa

3.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were investigated over the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraphs), the Peak reading (1MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

The signal is maximized through rotation and placement in the three orthogonal axes.



After verifying three axes, we found the maximum electromagnetic field was occurred at Y axis. The final test data was executed under this configuration.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
2400-2483.5	50	94	500	54

3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	15.209 Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Measurement uncertainty was calculated in accordance with TR 100 028-1.

Parameter	Uncertainty
Radiated Emission	± 5.10 dB
Conducted Emission	± 2.786 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

3.4 Radiated spurious emission test data

3.4.1 Measurement results: frequencies equal to or less than 1 GHz

EUT : HPL-108

Test Condition : GFSK mode at low channel

Polarization (circle)	Frequency (MHz)	Detector	Corr. Factor (dB/m)	Reading (dBuV)	Calculated dBuV/m	Limit (dBuV/m)	Margin (dB)
Vertical	47.46	QP	12.84	10.11	22.95	40.00	-17.05
Vertical	107.60	QP	7.64	17.68	25.32	43.50	-18.18
Vertical	176.47	QP	14.96	9.57	24.52	43.50	-18.98
Vertical	224.00	QP	12.08	9.25	21.33	46.00	-24.67
Vertical	271.53	QP	13.24	10.54	23.77	46.00	-22.23
Vertical	463.59	QP	17.68	9.64	27.32	46.00	-18.68

Polarization (circle)	Frequency (MHz)	Detector	Corr. Factor (dB/m)	Reading (dBuV)	Calculated dBuV/m	Limit (dBuV/m)	Margin (dB)
Horizontal	107.60	QP	9.03	12.34	21.36	43.50	-22.14
Horizontal	207.51	QP	10.78	15.25	26.02	43.50	-17.48
Horizontal	271.53	QP	13.21	19.95	33.15	46.00	-12.85
Horizontal	288.02	QP	13.85	16.11	29.95	46.00	-16.05
Horizontal	315.18	QP	14.32	15.25	29.56	46.00	-16.44
Horizontal	352.04	QP	15.48	16.34	31.81	46.00	-14.19

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

3.4.2 Measurement results: frequency above 1GHz

EUT : HPL-108

Test Condition : GFSK mode at low channel

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1600.00	PK	V	-	29.16	26.93	-	56.09	74	-17.91
1600.00	AV	V	-	29.16	26.93	-30.79	25.30	54	-28.70
4804.00	PK	V	35.1	38.54	57.71	-	61.15	74	-12.85
4804.00	AV	V	35.1	38.54	57.71	-30.79	30.36	54	-23.64
1600.00	PK	H	-	29.16	31.44	-	60.60	74	-13.40
1600.00	AV	H	-	29.16	31.44	-30.79	29.81	54	-24.19
4804.00	PK	H	35.1	38.54	54.88	-	58.32	74	-15.68
4804.00	AV	H	35.1	38.54	54.88	-30.79	27.53	54	-26.47

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1 GHz to 25 GHz. According to 15.31 (o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported.
4. Average value = peak value + average factor

EUT : HPL-108

Test Condition : GFSK mode at middle channel

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1628.00	PK	V	-	29.16	28.14	-	57.30	74	-16.70
1628.00	AV	V	-	29.16	28.14	-30.79	26.51	54	-27.49
4882.00	PK	V	35.1	38.54	55.1	-	58.54	74	-15.46
4882.00	AV	V	35.1	38.54	55.1	-30.79	27.75	54	-26.25
1628.00	PK	H	-	29.16	31.86	-	61.02	74	-12.98
1628.00	AV	H	-	29.16	31.86	-30.79	30.23	54	-23.77
4882.00	PK	H	35.1	38.54	54.84	-	58.28	74	-15.72
4882.00	AV	H	35.1	38.54	54.84	-30.79	27.49	54	-26.51

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1 GHz to 25 GHz. According to 15.31 (o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported.
4. Average value = peak value + average factor

EUT : HPL-108

Test Condition : GFSK mode at high channel

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1656.00	PK	V	-	29.16	28.87	-	58.03	74	-15.97
1656.00	AV	V	-	29.16	28.87	-30.79	27.24	54	-26.76
4960.00	PK	V	35.1	38.54	55.35	-	58.79	74	-15.21
4960.00	AV	V	35.1	38.54	55.35	-30.79	28.00	54	-26.00
1656.00	PK	H	-	29.16	32.46	-	61.62	74	-12.38
1656.00	AV	H	-	29.16	32.46	-30.79	30.83	54	-23.17
4960.00	PK	H	35.1	38.54	50.51	-	53.95	74	-20.05
4960.00	AV	H	35.1	38.54	50.51	-30.79	23.16	54	-30.84

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1 GHz to 25 GHz. According to 15.31 (o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported.
4. Average value = peak value + average factor

3.4.3 Measurement results: Fundamental emission

EUT : HPL-108

Test Condition : GFSK mode

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
2402	PK	H	30.35	60.86	-	91.21	114	-22.79
2402	AV	H	30.35	30.07	-30.79	60.42	94	-33.58
2441	PK	H	30.35	60.96	-	91.31	114	-22.69
2441	AV	H	30.35	30.17	-30.79	60.52	94	-33.48
2480	PK	H	30.35	59.38	-	89.73	114	-24.27
2480	AV	H	30.35	28.59	-30.79	58.94	94	-35.06

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor
3. Average value = peak value + average factor

EUT : HPL-108

Test Condition : $\pi/4$ DPSK mode

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
2402	PK	H	30.35	58.52	-	88.87	114	-25.13
2402	AV	H	30.35	27.79	-30.73	58.14	94	-35.86
2441	PK	H	30.35	58.27	-	88.62	114	-25.38
2441	AV	H	30.35	27.54	-30.73	57.89	94	-36.11
2480	PK	H	30.35	56.41	-	86.76	114	-27.24
2480	AV	H	30.35	25.68	-30.73	56.03	94	-37.97

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor
3. Average value = peak value + average factor

EUT : HPL-108

Test Condition : 8DPSK mode

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Average Factor (dB)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
2402	PK	H	30.35	58.37	-	88.72	114	-25.28
2402	AV	H	30.35	27.64	-30.73	57.99	94	-36.01
2441	PK	H	30.35	58.20	-	88.55	114	-25.45
2441	AV	H	30.35	27.47	-30.73	57.82	94	-36.18
2480	PK	H	30.35	56.47	-	86.82	114	-27.18
2480	AV	H	30.35	25.74	-30.73	56.09	94	-37.91

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor
3. Average value = peak value + average factor

4. Radiated emission on the band edge FCC 15.249(d)**Method of Measurement:**

The frequency range from 30 MHz to 1000 MHz using Bilog Antenna.
The frequency range over 1 GHz using Horn Antenna.

Radiated emissions were invested cover the frequency range from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz and 10 Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/VBW) recorded also on the report.

4.1 Measurement results**Test Mode: GFSK mode**

Channel	Measurement Freq. Band (MHz)	Detector	Average Factor (dB)	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
0	2310-2390	PK	-	57.49	74	-16.51
		AV	-30.79	26.70	54	-27.30
78	2483.5-2500	PK	-	58.62	74	-15.38
		AV	-30.79	27.83	54	-26.17

Remark:

1. Please refer section 5 of this report for Average Factor.
2. Average value = peak value + average factor.

Test Mode: $\pi/4$ DPSK mode

Channel	Measurement Freq. Band (MHz)	Detector	Average Factor (dB)	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
0	2310-2390	PK	-	57.85	74	-16.15
		AV	-30.73	27.12	54	-26.88
78	2483.5-2500	PK	-	57.95	74	-16.05
		AV	-30.73	27.22	54	-26.78

Remark:

1. Please refer section 5 of this report for Average Factor.
2. Average value = peak value + average factor.

Test Mode: 8DPSK mode

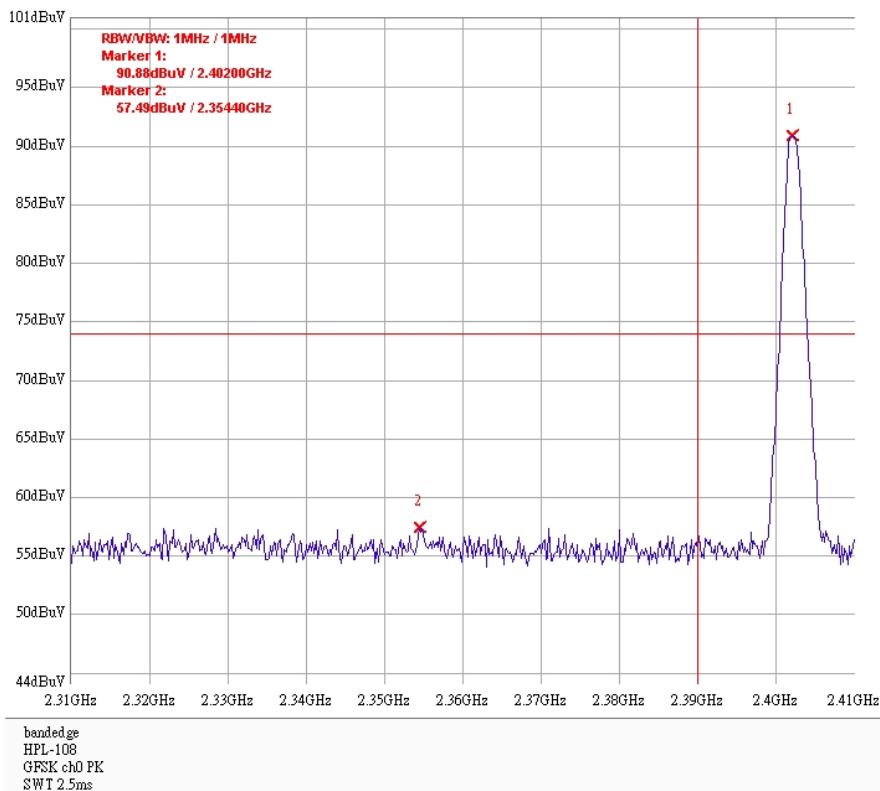
Channel	Measurement Freq. Band (MHz)	Detector	Average Factor (dB)	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
0	2310-2390	PK	-	57.67	74	-16.33
		AV	-30.73	26.94	54	-27.06
78	2483.5-2500	PK	-	58.20	74	-15.80
		AV	-30.73	27.47	54	-26.53

Remark:

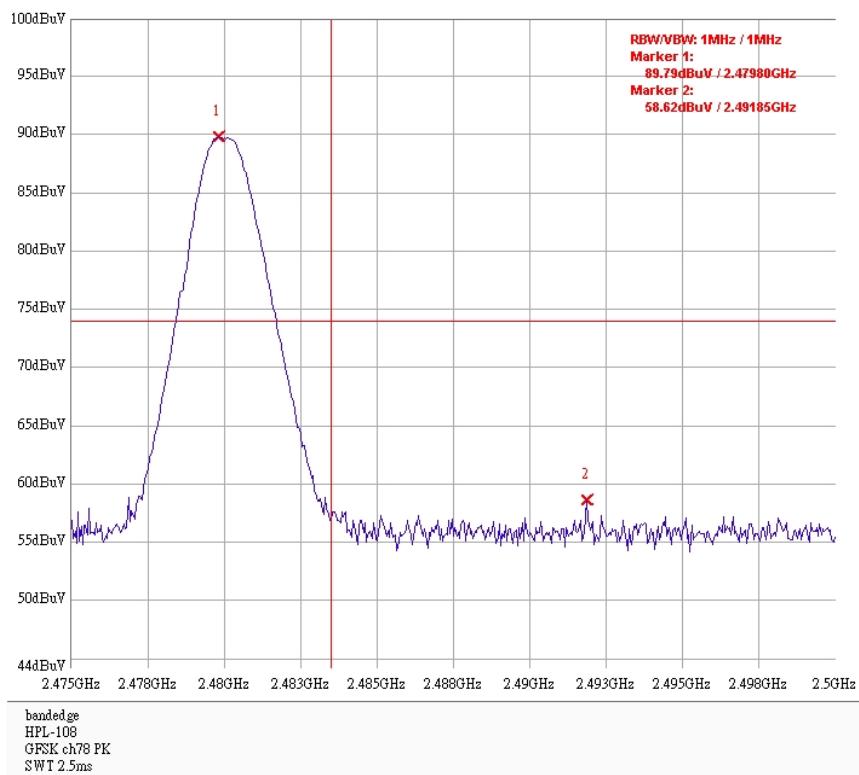
1. Please refer section 5 of this report for Average Factor.
2. Average value = peak value + average factor.

Please see the plots next pages.

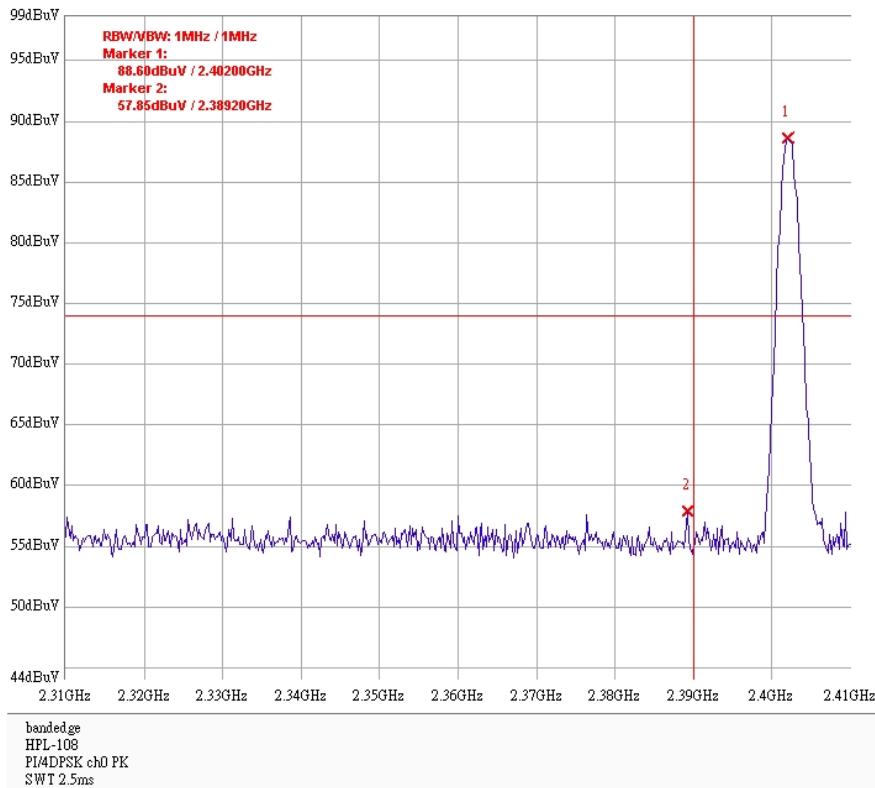
Band edge @ GFSK mode channel 0 PK



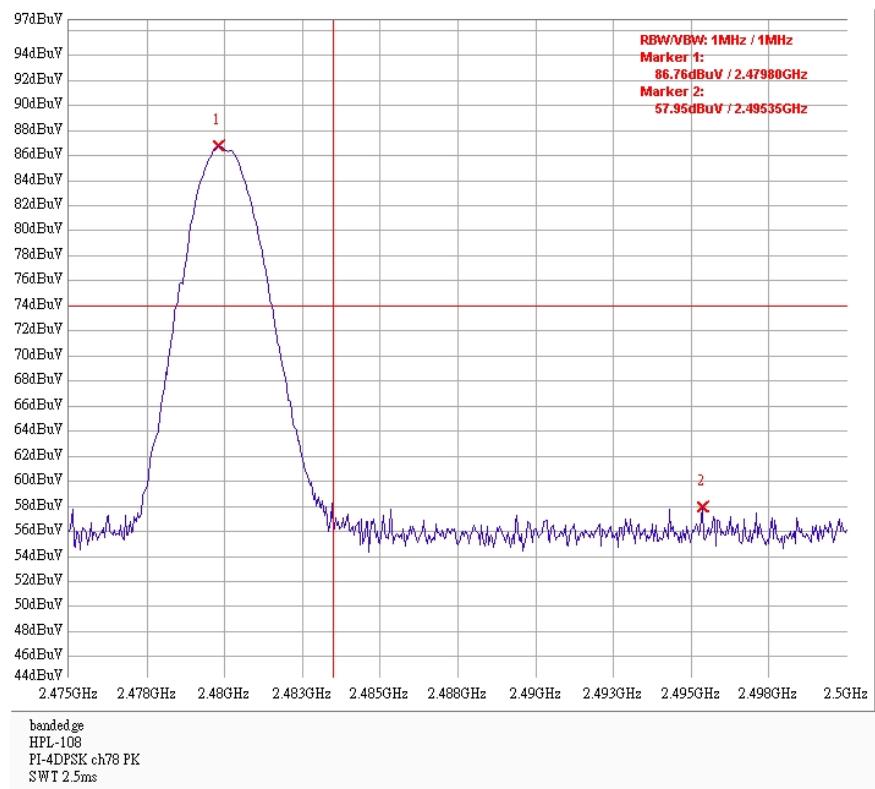
Band edge @ GFSK mode channel 78 PK



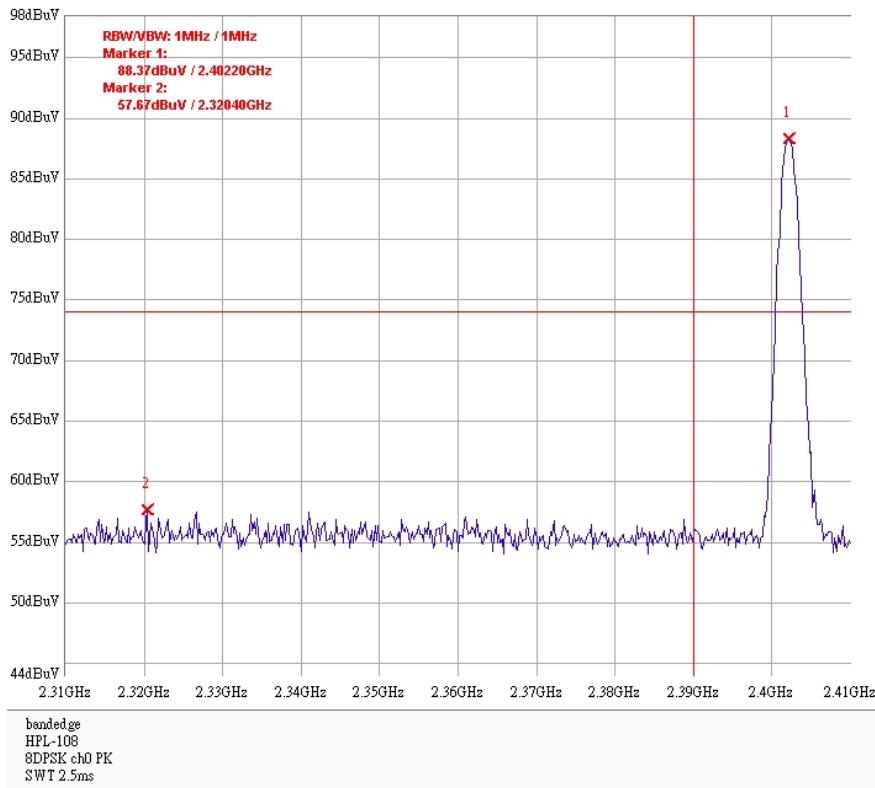
Band edge @ π /4DPSK mode channel 0 PK



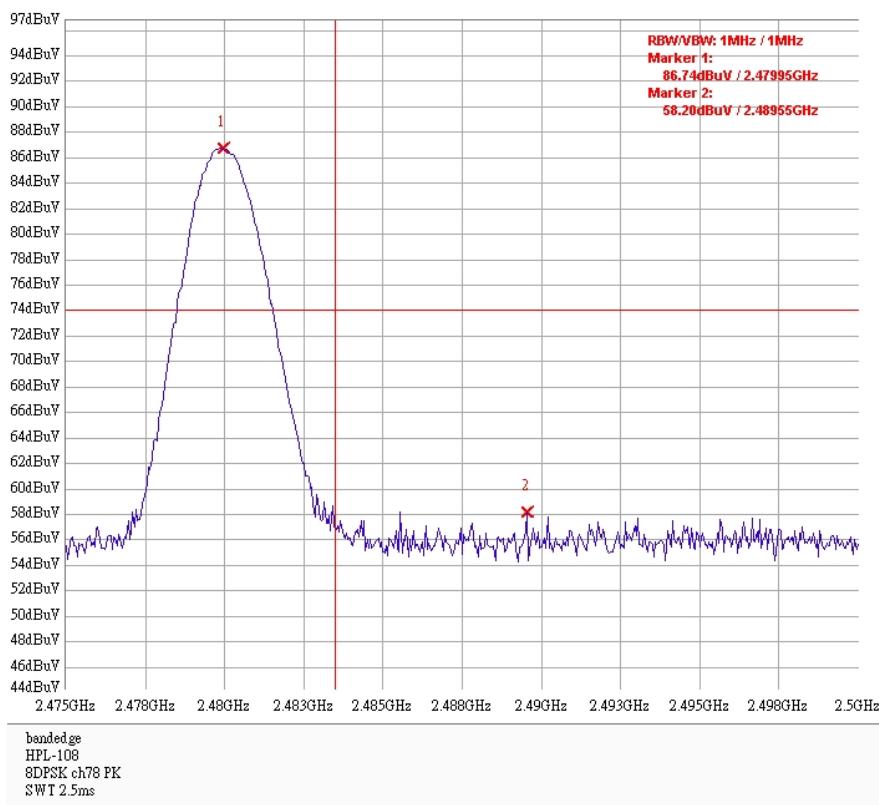
Band edge @ π /4DPSK mode channel 78 PK



Band edge @ 8DPSK mode channel 0 PK



Band edge @ 8DPSK mode channel 78 PK



5. Calculation of Average Factor

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured in 100 ms or the repetition cycle, whichever is a shorter time frame. The duty cycle is measured by placing the spectrum analyzer in zero span mode.

Averaging factor in dB = $20\log(\text{duty cycle})$

The duty cycle is simply the on-time divided by the period:

Duty cycle correction factor in dB = $20\log(\text{on-time}/100\text{ms})$ or $20\log(\text{on-time}/\text{period})$
#If period is smaller than 100ms

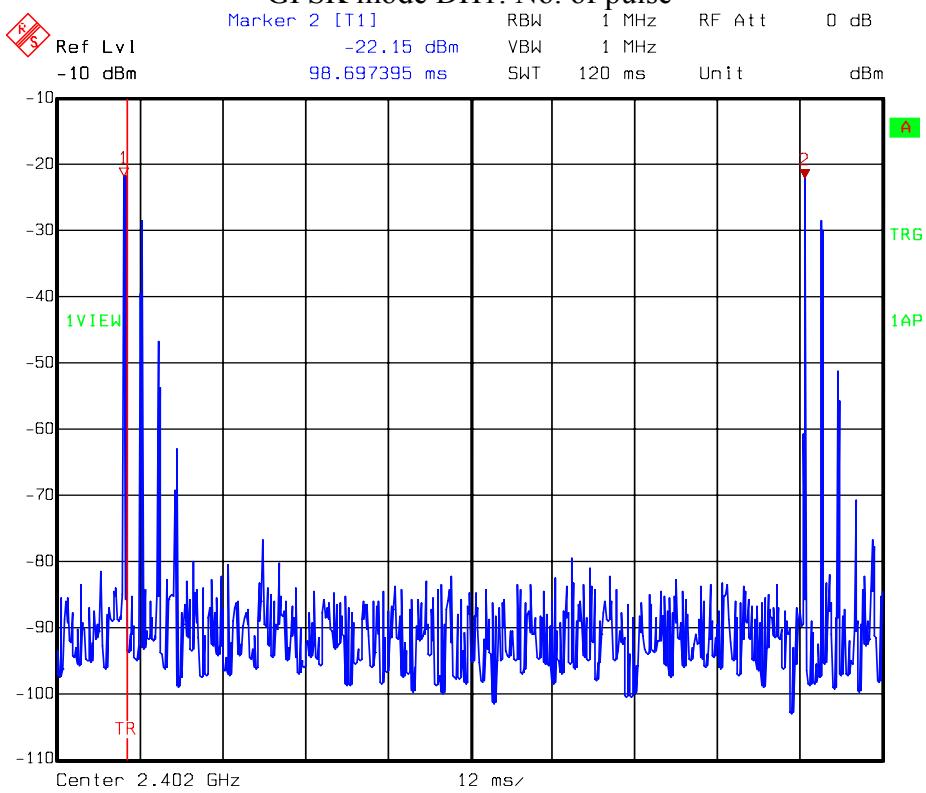
Result:

Mode	Mode	Pulse time (ms)	No. of pulse during 100ms	Duty cycle %	Duty cycle correction factor
GFSK	DH1	0.4078	2	0.8156	-41.77
	DH3	1.6643	1	1.6643	-35.58
	DH5	2.8878	1	2.8878	-30.79
$\pi/4$ DPSK	DH1	0.4218	2	0.8436	-41.48
	DH3	1.6786	1	1.6786	-35.50
	DH5	2.9078	1	2.9078	-30.73
8DPSK	DH1	0.4138	2	0.8276	-41.64
	DH3	1.6703	1	1.6703	-35.54
	DH5	2.9078	1	2.9078	-30.73

The worst case of GFSK mode is -30.79, $\pi/4$ DPSK mode is -30.73, 8DPSK mode is -30.73.

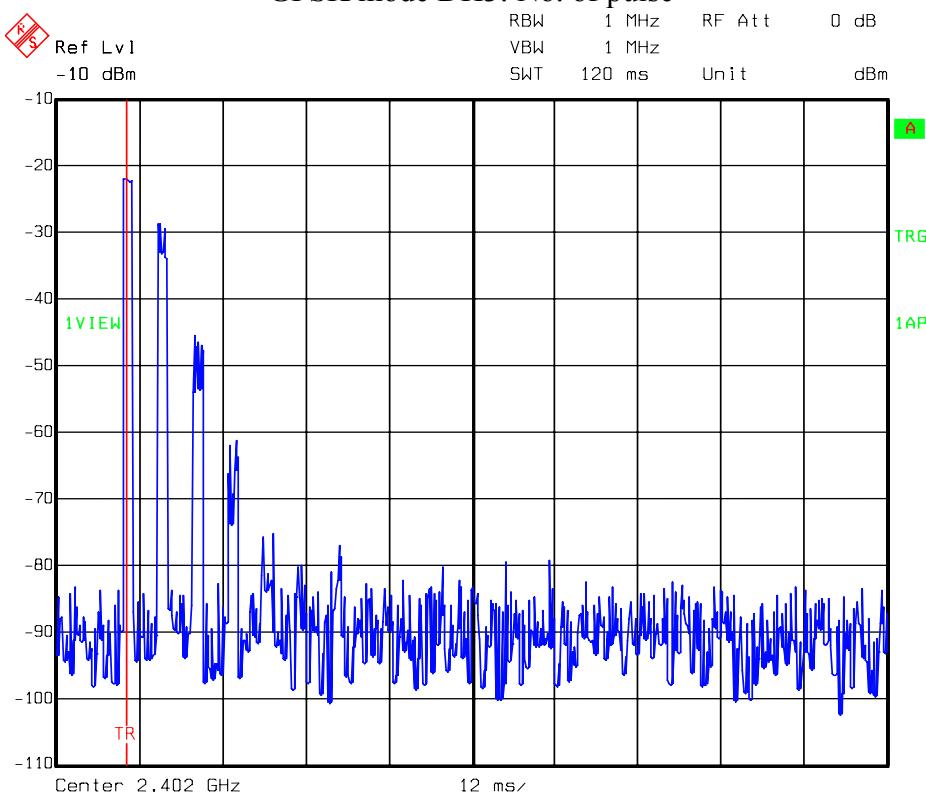
Please see the plots next pages.

GFSK mode DH1: No. of pulse



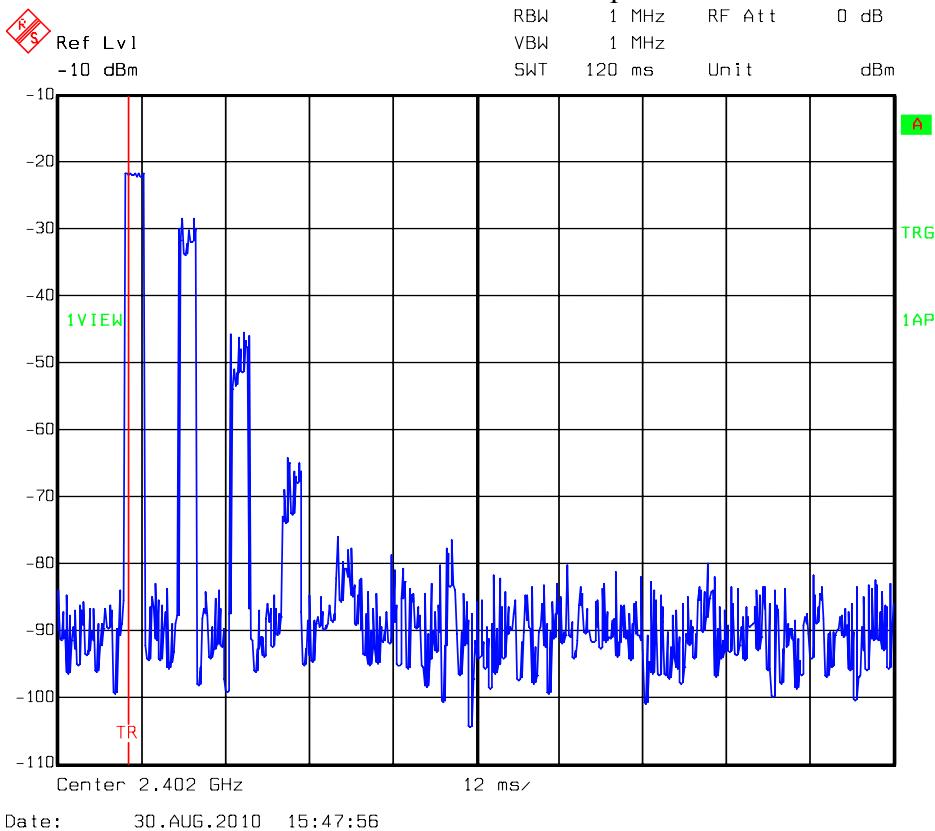
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GFSK mode DH3: No. of pulse

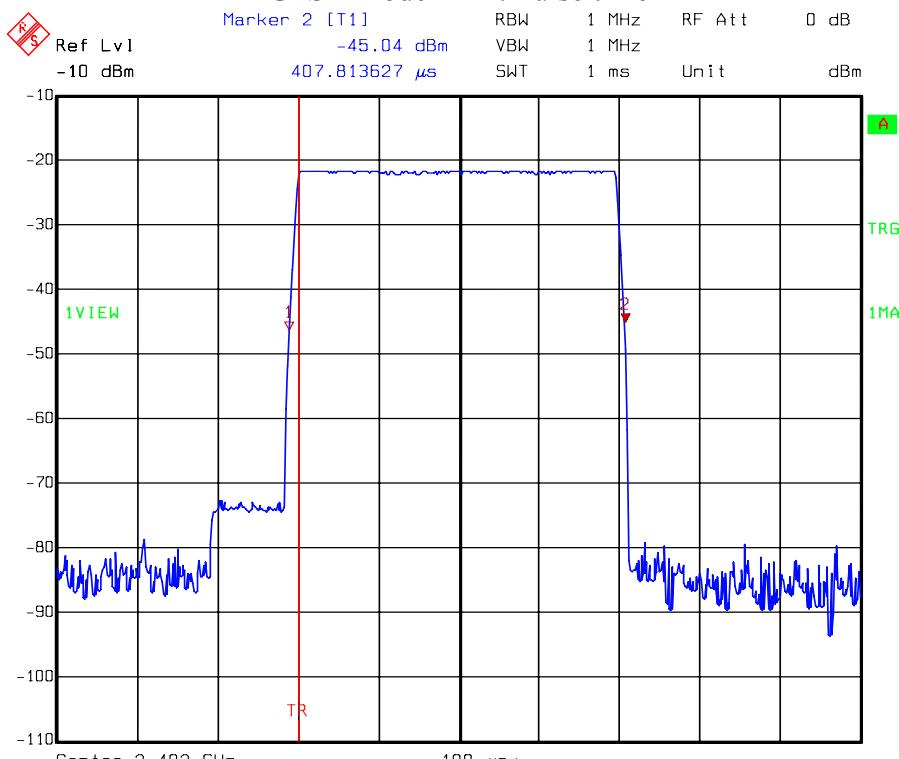


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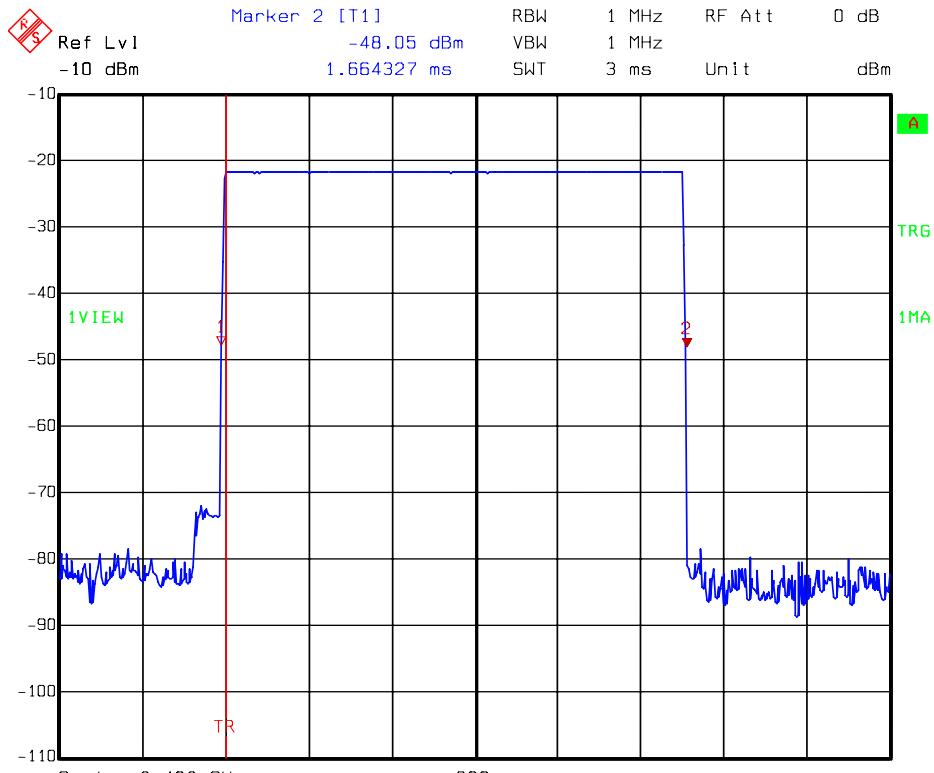
GFSK mode DH5: No. of pulse



GFSK mode DH1: Pulse time

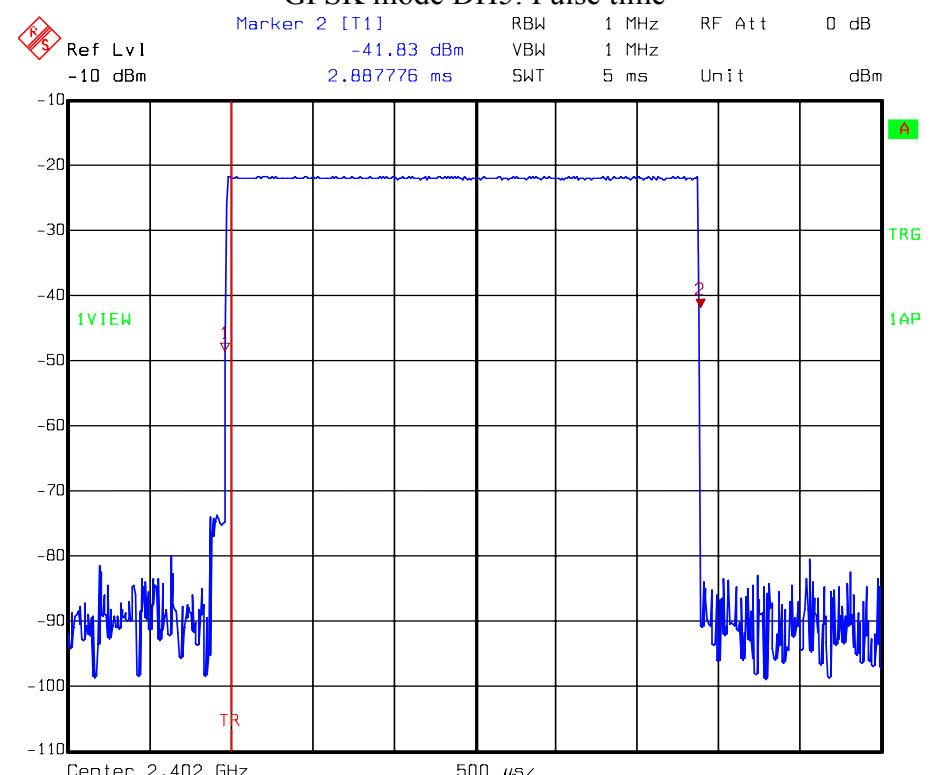


GFSK mode DH3: Pulse time



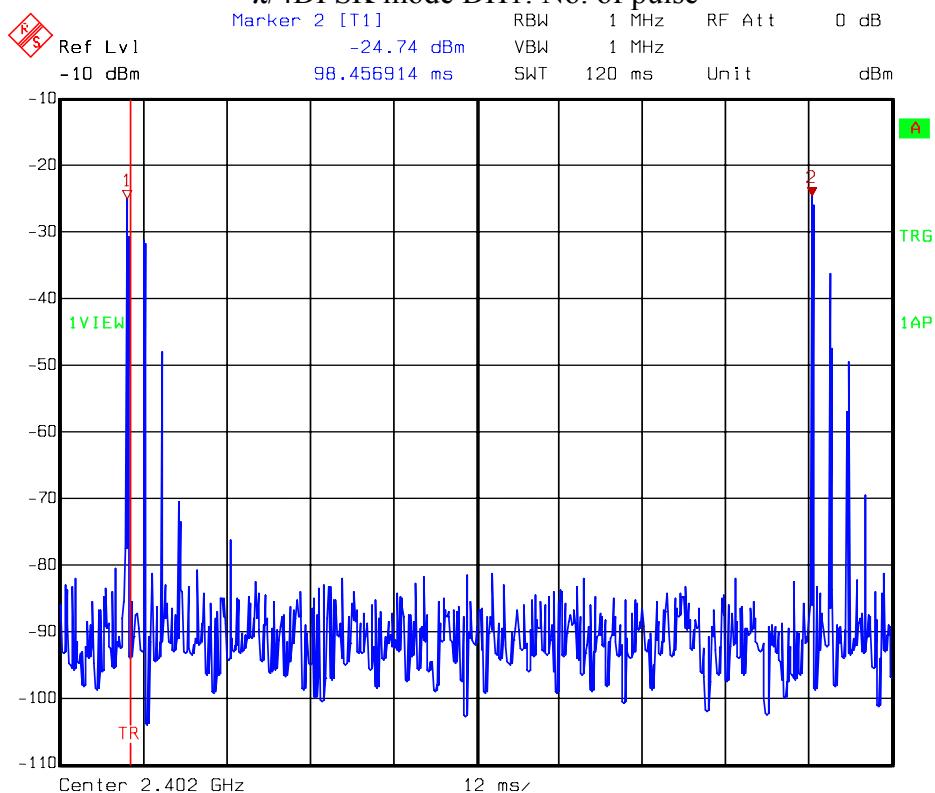
Date: 30.AUG.2010 15:46:16

GFSK mode DH5: Pulse time



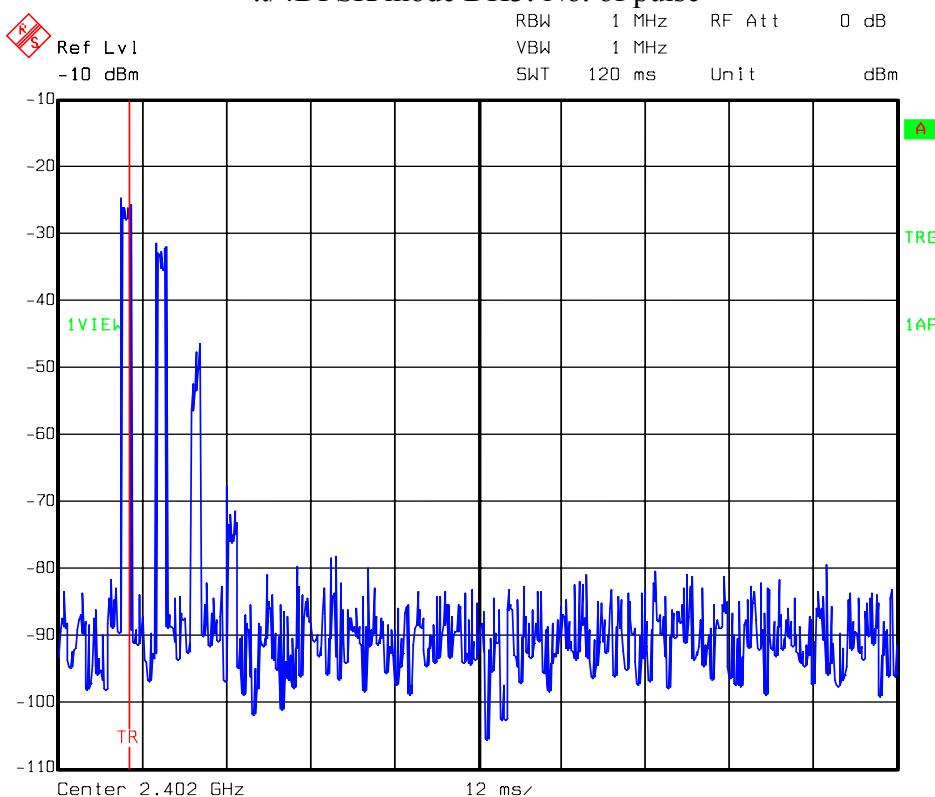
Date: 30.AUG.2010 15:48:46

$\pi/4$ DPSK mode DH1: No. of pulse



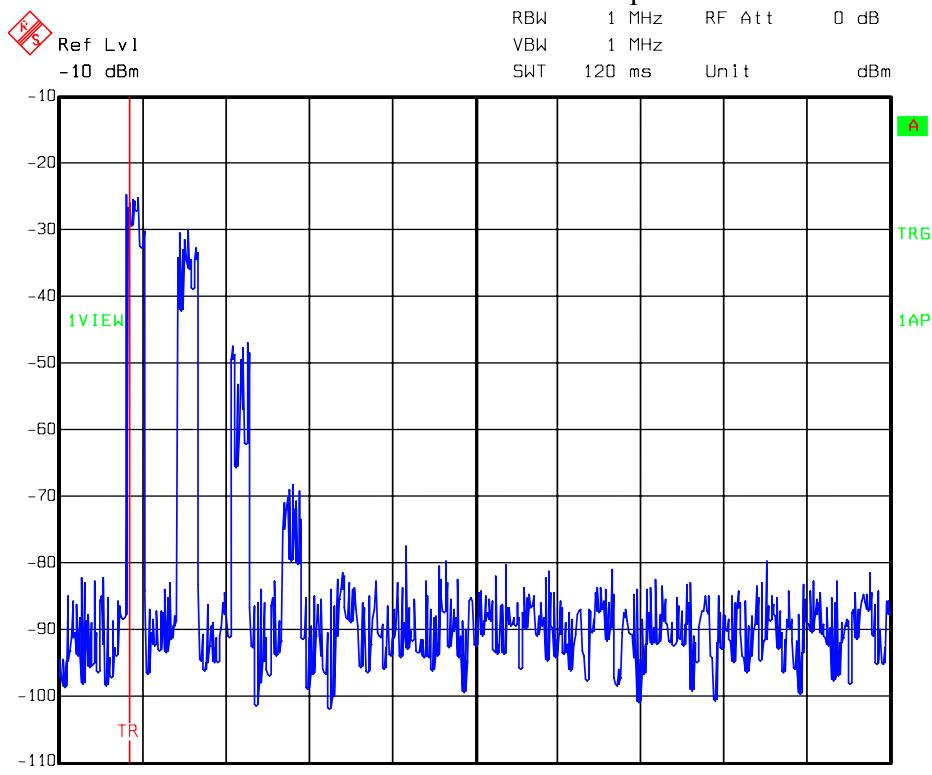
Date: 30.AUG.2010 15:51:58

$\pi/4$ DPSK mode DH3: No. of pulse



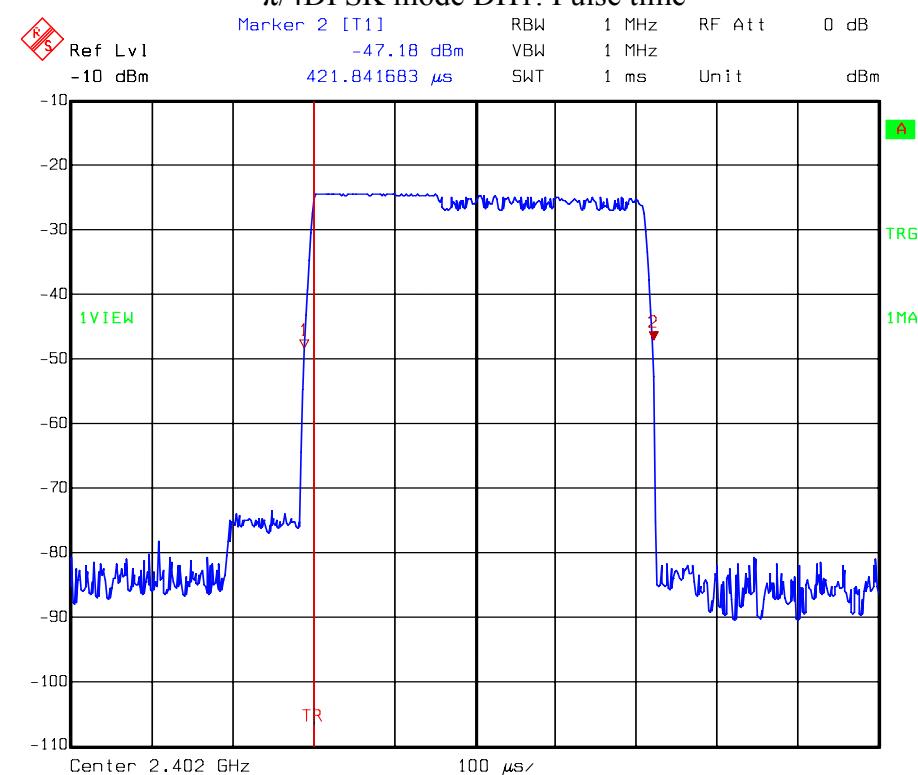
Date: 30.AUG.2010 16:01:35

$\pi/4$ DPSK mode DH5: No. of pulse



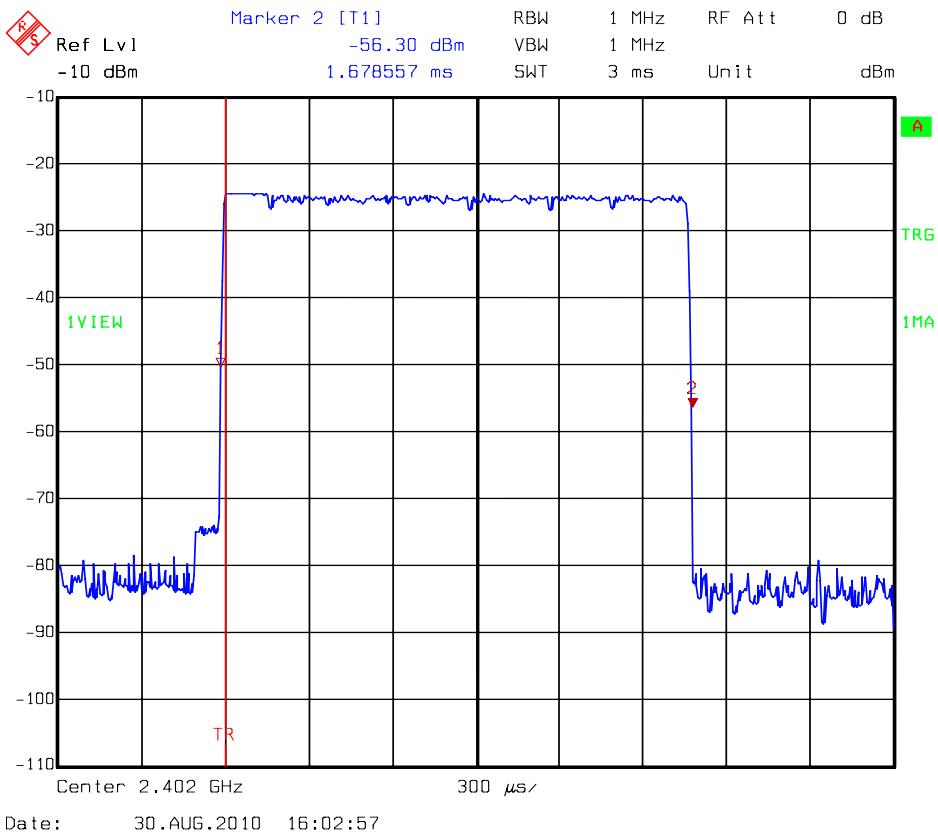
Date: 30.AUG.2010 16:05:22

$\pi/4$ DPSK mode DH1: Pulse time

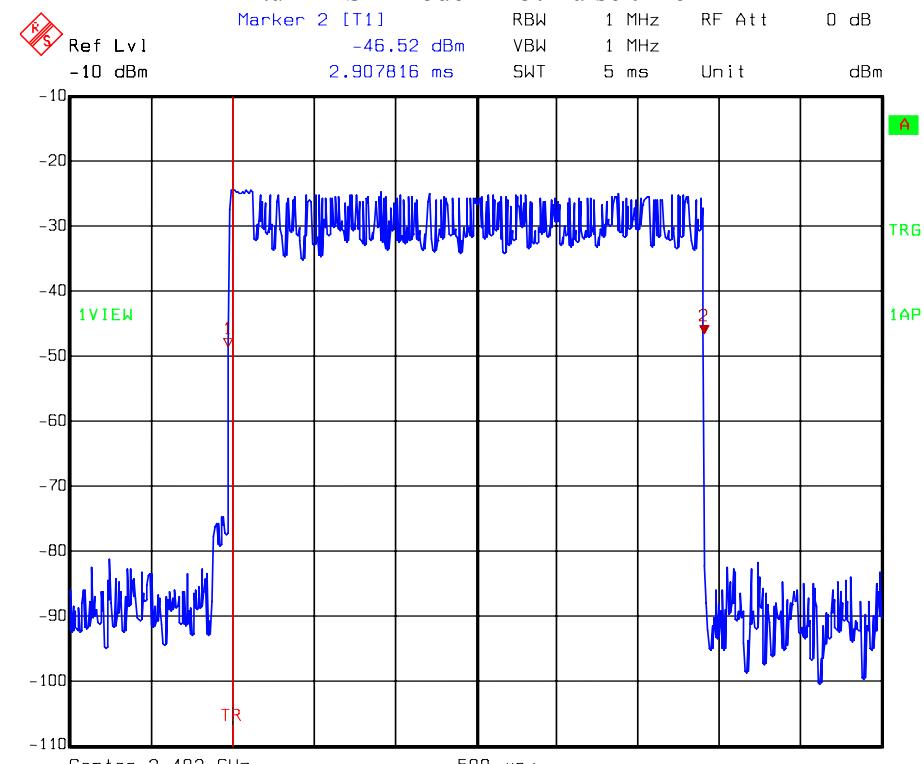


Date: 30.AUG.2010 15:50:39

$\pi/4$ DPSK mode DH3: Pulse time

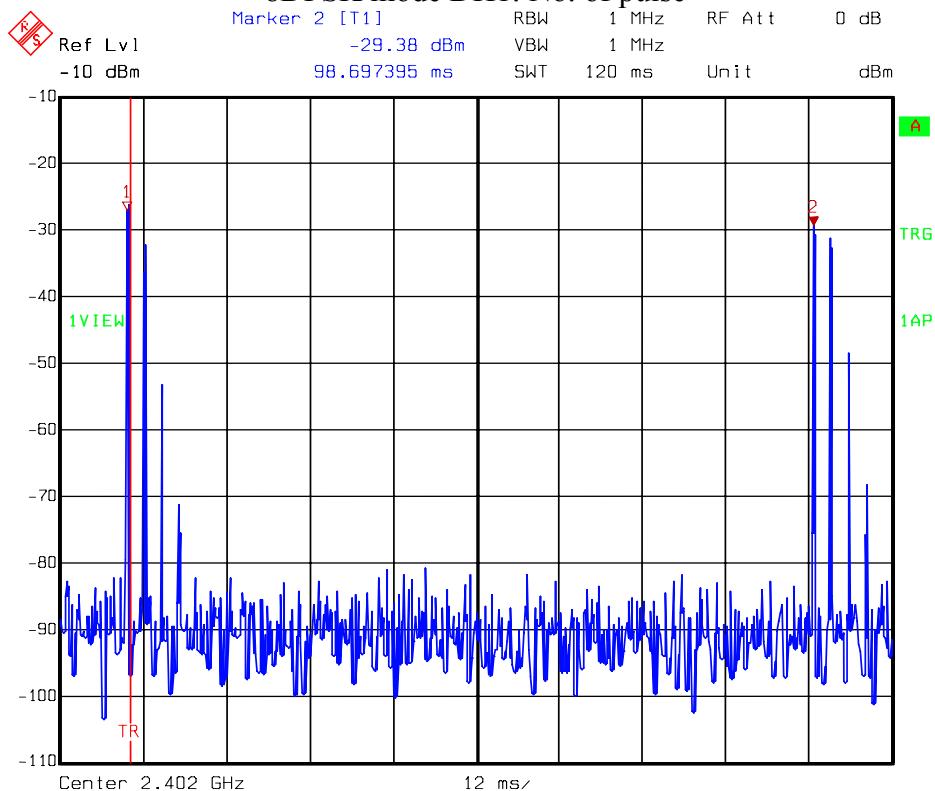


$\pi/4$ DPSK mode DH5: Pulse time



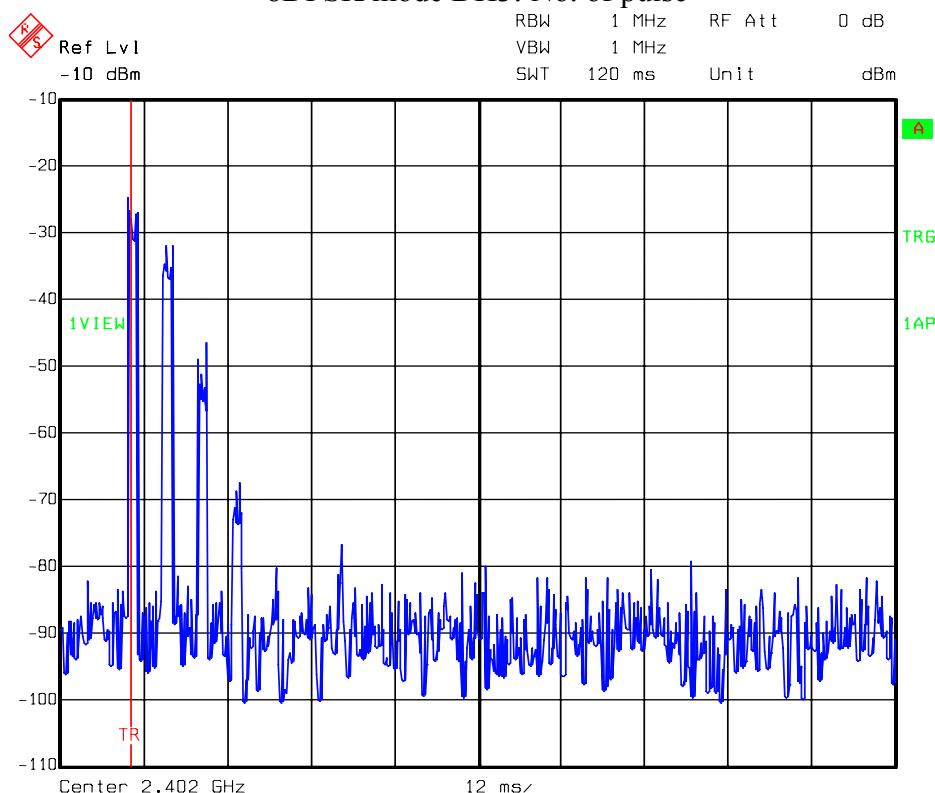
Date: 30.AUG.2010 16:04:50

8DPSK mode DH1: No. of pulse



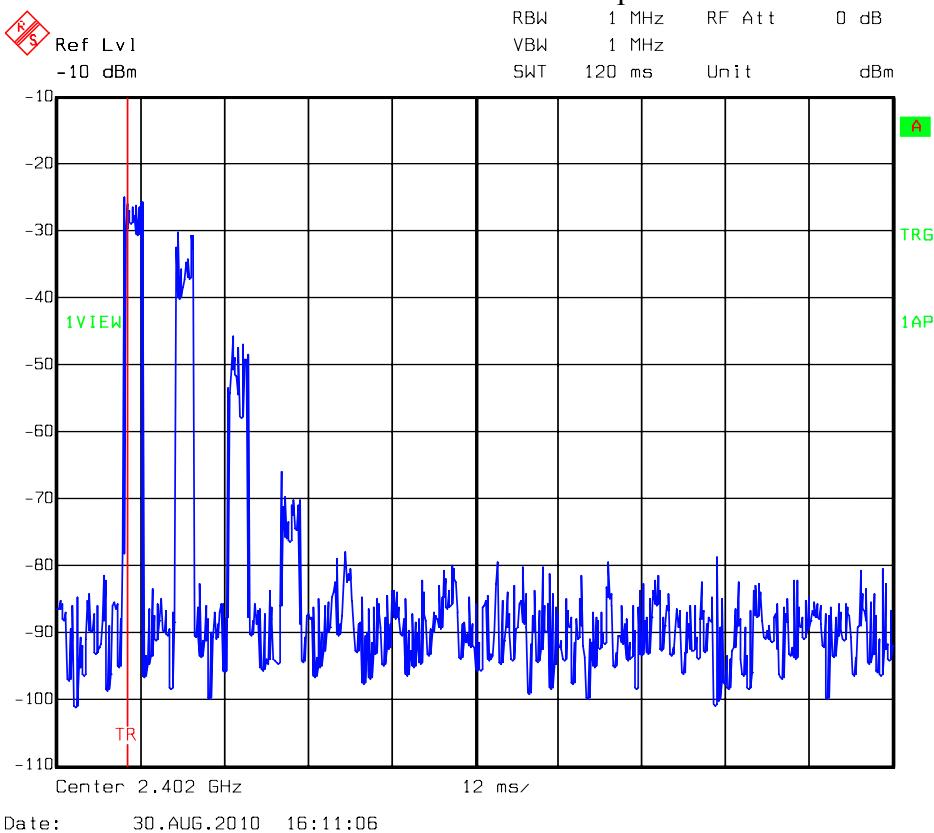
Date: 30.AUG.2010 16:06:31

8DPSK mode DH3: No. of pulse

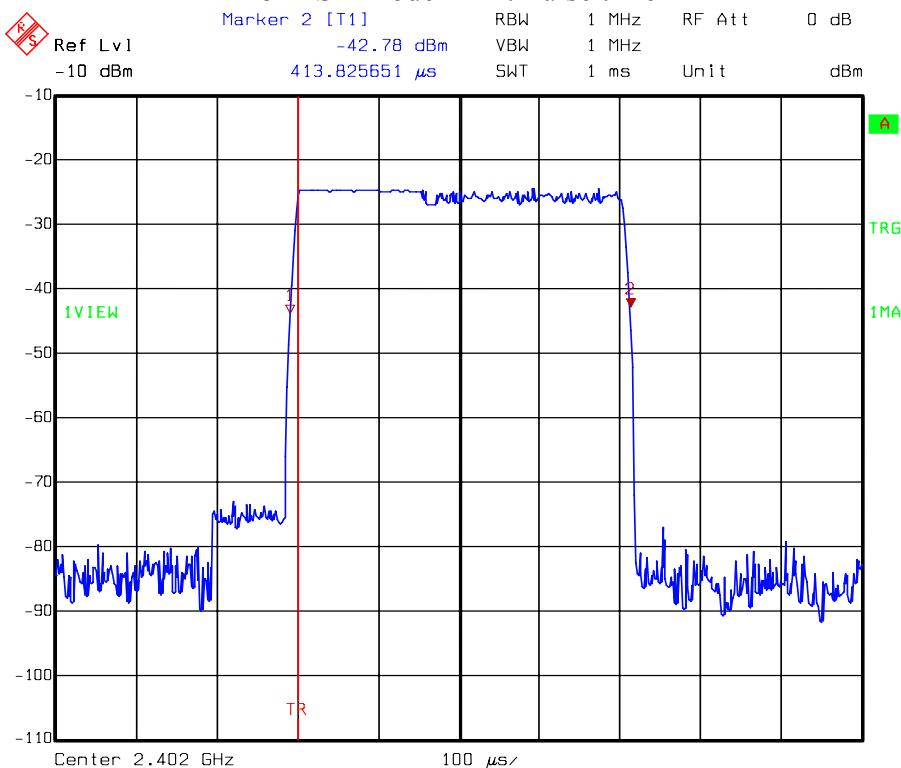


Date: 30.AUG.2010 16:10:29

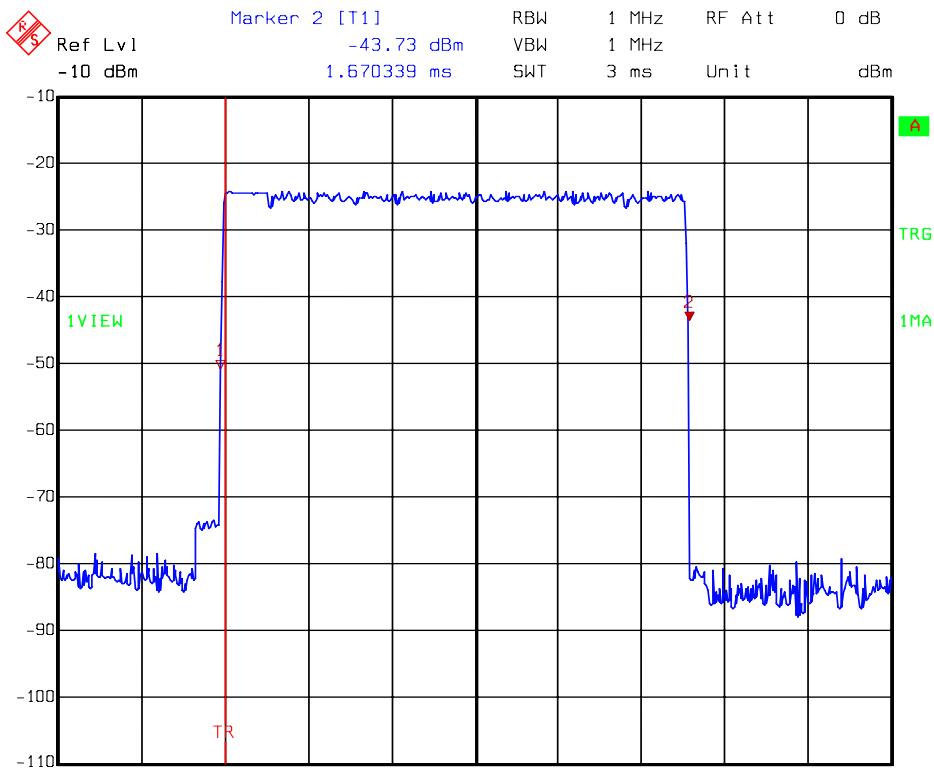
8DPSK mode DH5: No. of pulse



8DPSK mode DH1: Pulse time

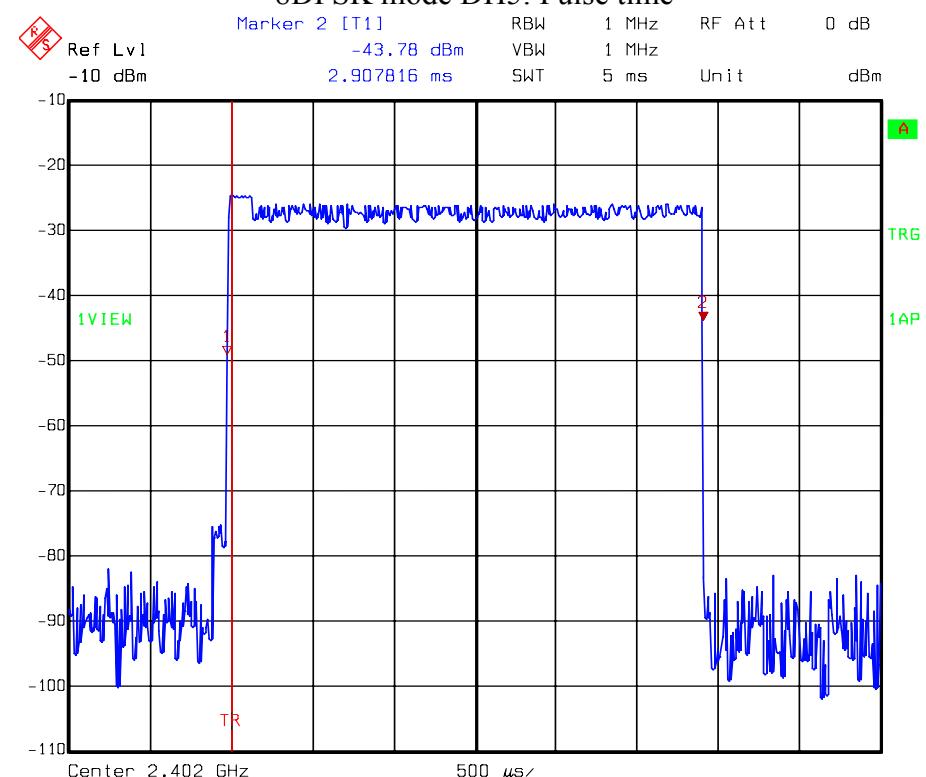


8DPSK mode DH3: Pulse time



Date: 30.AUG.2010 16:08:46

8DPSK mode DH5: Pulse time



Date: 30.AUG.2010 16:11:52

6. Additional provisions test (FCC 15.215)

6.1 Operating environment

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1008 hPa

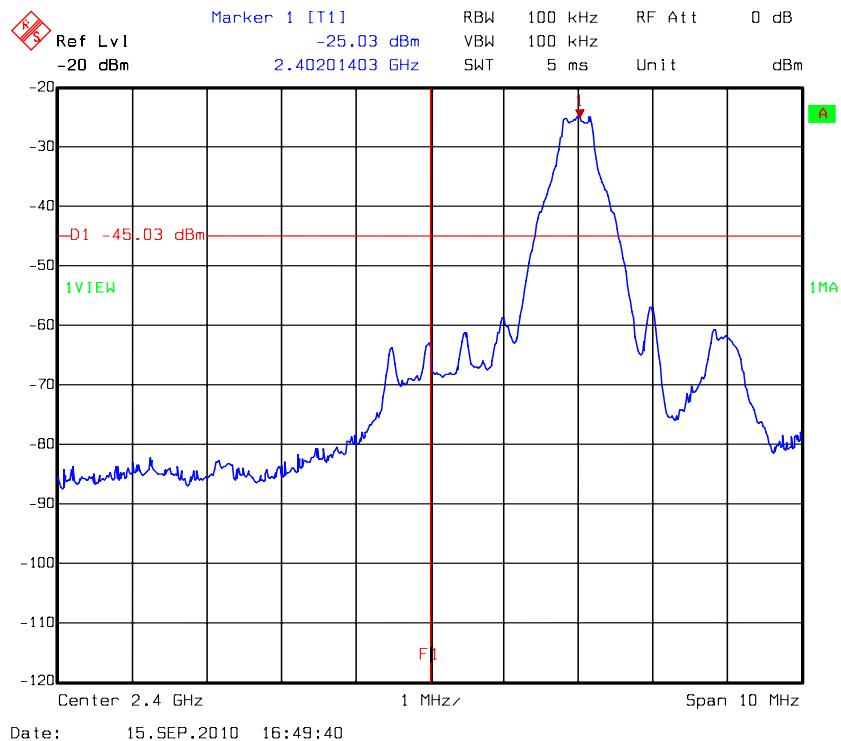
6.2 Procedure of test setup & limitation

The additional provisions mean the device must be designed to ensure that the 20dB bandwidth of the emission or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

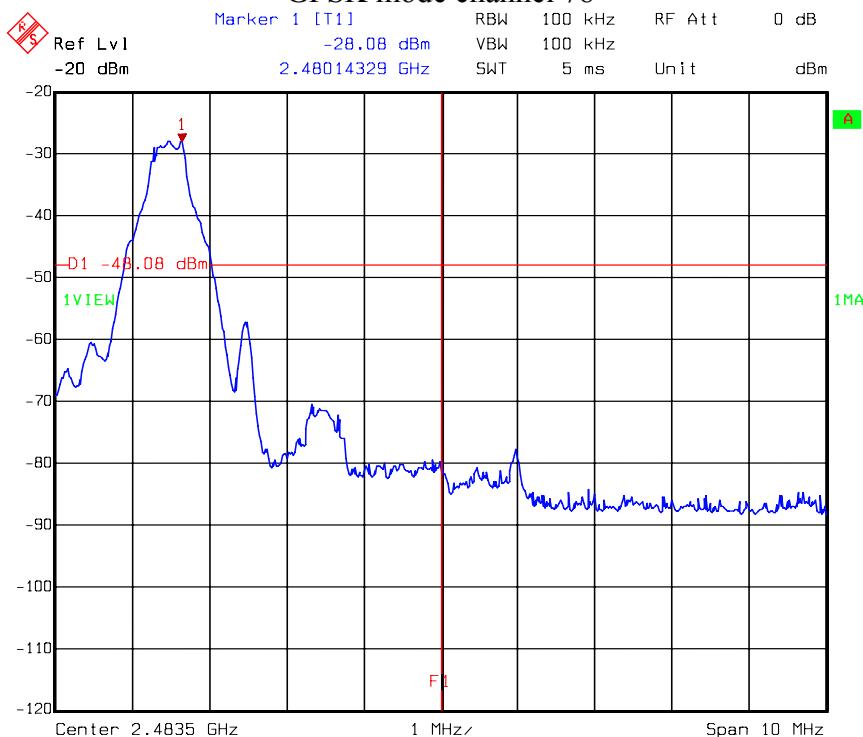
This requirement per FCC §15.215 (c) was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 100kHz (approximately 1% of the emission bandwidth), the video bandwidth set at 100kHz (VBW \geq RBW).

6.3 Measured data of Power Spectrum Density test results

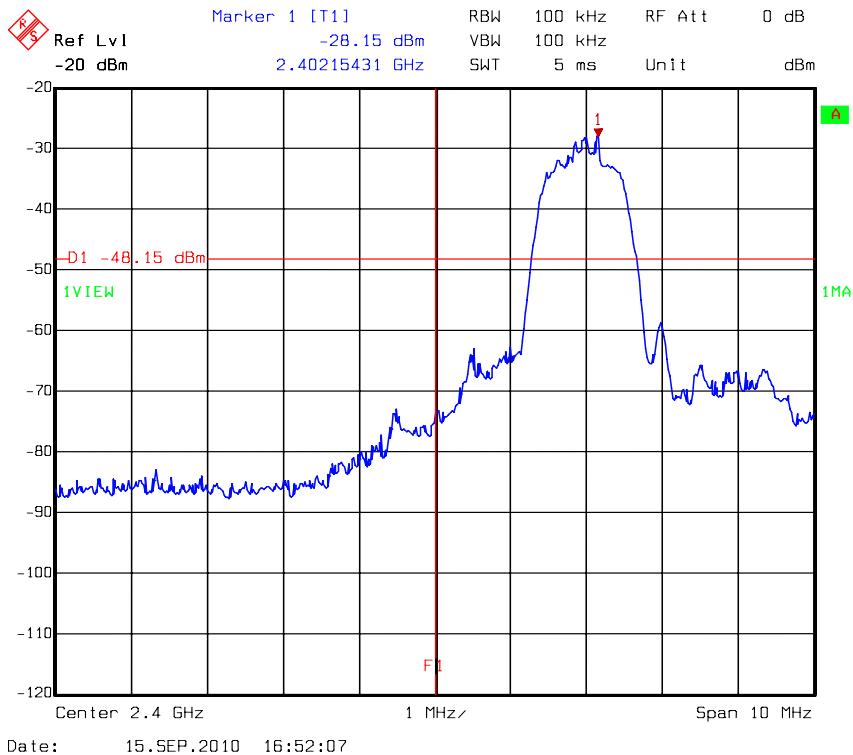
GFSK mode channel 0



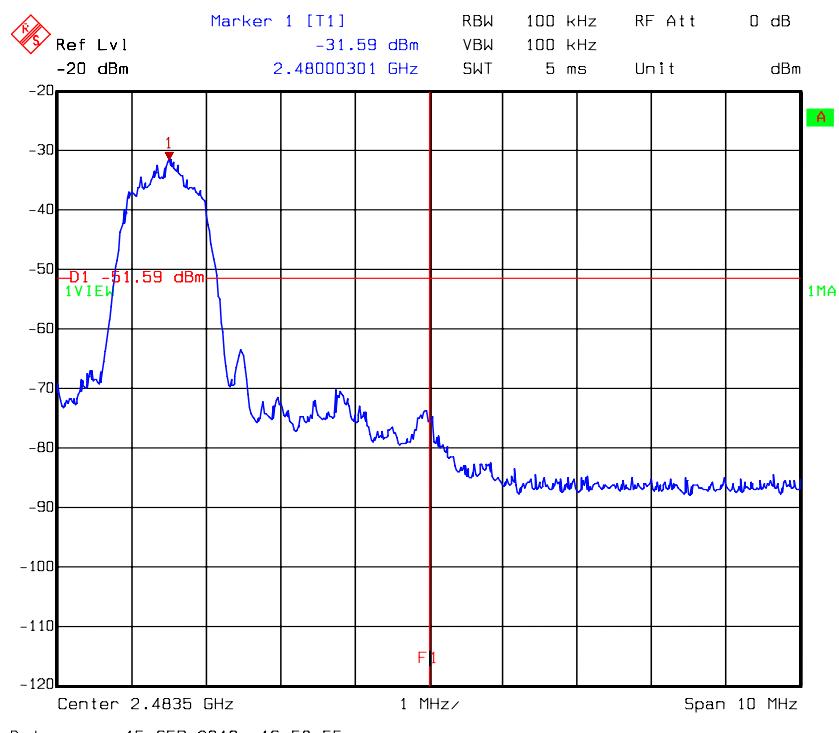
GFSK mode channel 78



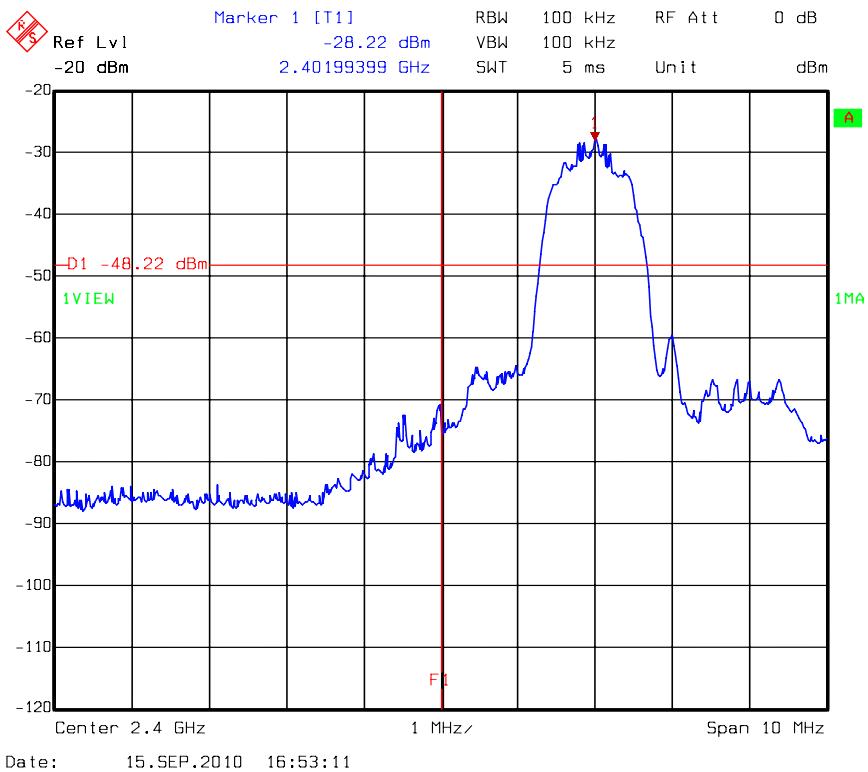
$\pi/4$ DPSK mode channel 0



Band edge @ $\pi/4$ DPSK mode channel 78



8DPSK mode channel 0



Band edge @ 8DPSK mode channel 78

