



STC Test Report

Date : 2012-10-26

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No. : DM108561

Results of USB Audio play mode (Connected to USB flash drive) (L): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.375	35.7	58.0	-*-	-*-
Live	17.085	33.0	60.0	-*-	-*-
Live	29.975	34.2	60.0	-*-	-*-
Live	0.380	-*-	-*-	31.9	48.0
Live	1.135	-*-	-*-	22.5	46.0
Live	29.925	-*-	-*-	26.8	50.0

Remarks:

Calculated measurement uncertainty : 3.97dB

-*- Emission(s) that is far below the corresponding limit line.

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Limit for Conducted Emissions (FCC 47 CFR 15.207):

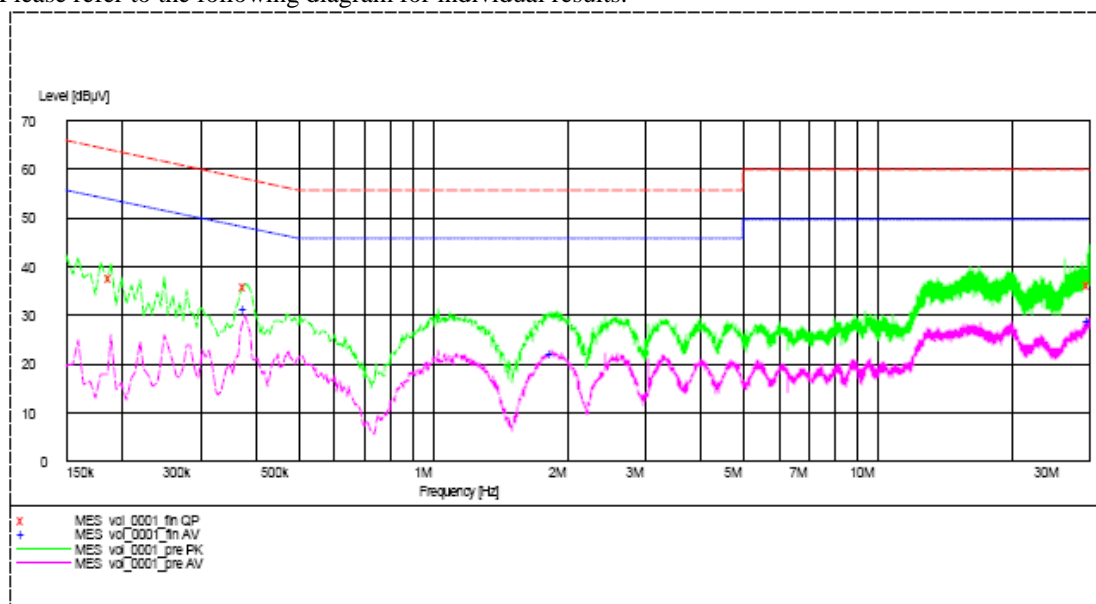
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of USB Audio play mode (Connected to USB flash drive) (N): Pass

Please refer to the following diagram for individual results.



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Results of USB Audio play mode (Connected to USB flash drive) (N): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Neutral	0.190	37.8	64.0	-*-	-*-
Neutral	0.380	36.1	58.0	-*-	-*-
Neutral	29.995	36.3	60.0	-*-	-*-
Neutral	0.380	-*-	-*-	31.5	48.0
Neutral	1.860	-*-	-*-	22.3	46.0
Neutral	29.990	-*-	-*-	28.8	50.0

Remarks:

Calculated measurement uncertainty : 3.97dB

-*- Emission(s) that is far below the corresponding limit line.

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Limit for Conducted Emissions (FCC 47 CFR 15.207):

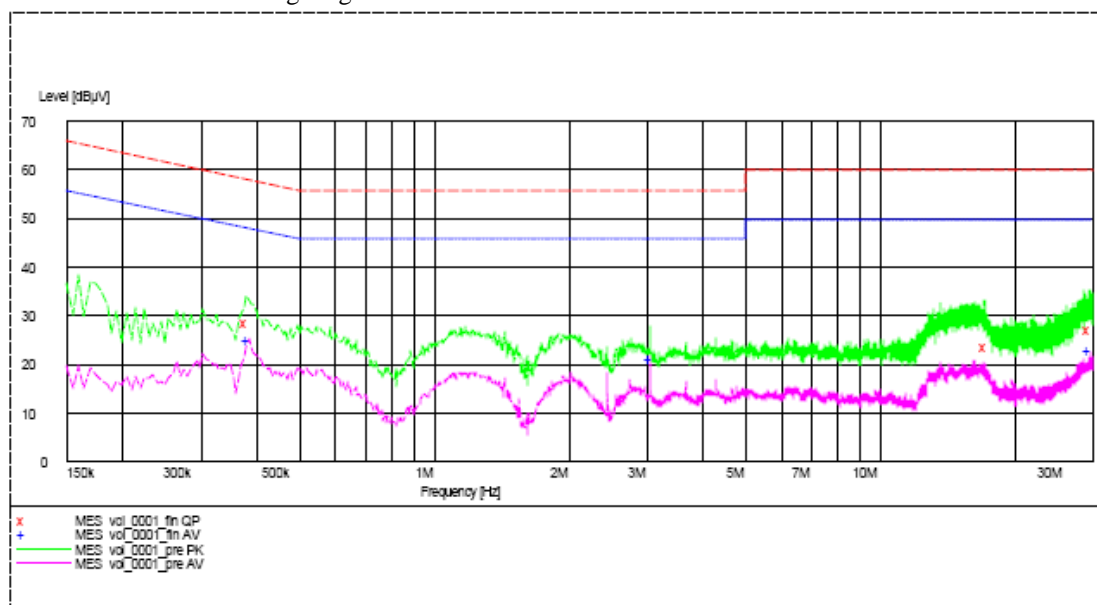
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth Communication mode (L): Pass

Please refer to the following diagram for individual results.



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Results of Bluetooth Communication mode (L): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Live	0.380	28.5	58.0	-*-	-*-
Live	17.235	23.7	60.0	-*-	-*-
Live	29.590	27.1	60.0	-*-	-*-
Live	0.385	-*-	-*-	25.1	48.0
Live	3.065	-*-	-*-	21.1	46.0
Live	29.600	-*-	-*-	22.9	50.0

Remarks:

Calculated measurement uncertainty : 3.97dB

-*- Emission(s) that is far below the corresponding limit line.

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Limit for Conducted Emissions (FCC 47 CFR 15.207):

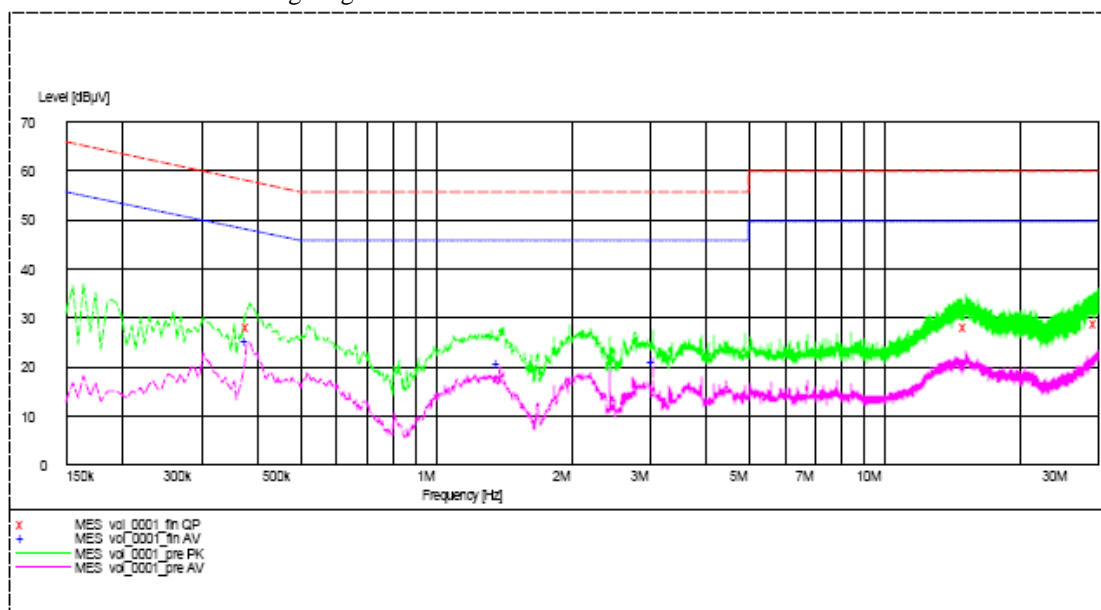
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of Bluetooth Communication mode (N): Pass

Please refer to the following diagram for individual results.



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Results of Bluetooth Communication mode (N): Pass

Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dB μ V	Limit dB μ V	Level dB μ V	Limit dB μ V
Neutral	0.385	28.4	58.0	-*-	-*-
Neutral	15.280	28.2	60.0	-*-	-*-
Neutral	29.800	28.8	60.0	-*-	-*-
Neutral	0.380	-*-	-*-	25.3	48.0
Neutral	1.390	-*-	-*-	20.9	46.0
Neutral	3.065	-*-	-*-	21.3	46.0

Remarks:

Calculated measurement uncertainty : 3.97dB

-*- Emission(s) that is far below the corresponding limit line.

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3.1.4 20dB Bandwidth Measurement

Test Requirement: FCC 47CFR 15.247(a)(1)
Test Method: ANSI C63.4:2009
Test Date: 2012-08-04
Mode of Operation: Communication mode

Remark:

The result has been done on all the possible configurations for searching the worst cases.

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Test Setup:

As Test Setup of clause 3.1.1 in this test report.

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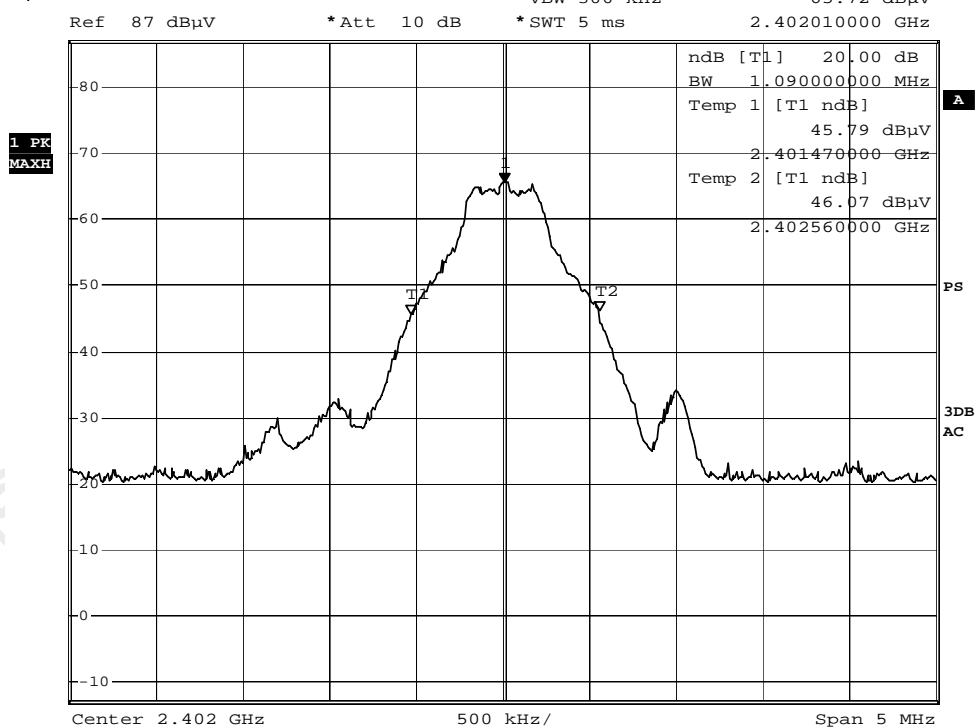
No. : DM108561

Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2402	1.090	Within 2400-2483.5

(Lowest Operating Frequency)- (GFSK)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 65.72 dBμV
*SWT 5 ms 2.402010000 GHz



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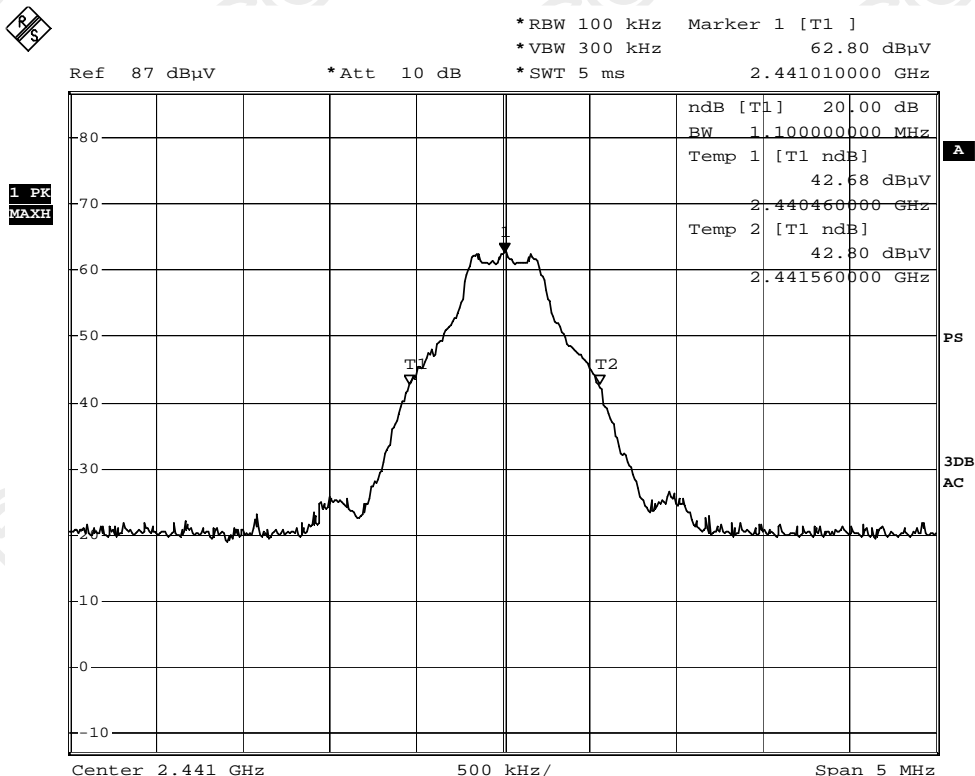
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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2442	1.100	Within 2400-2483.5

(Middle Operating Frequency)- (GFSK)



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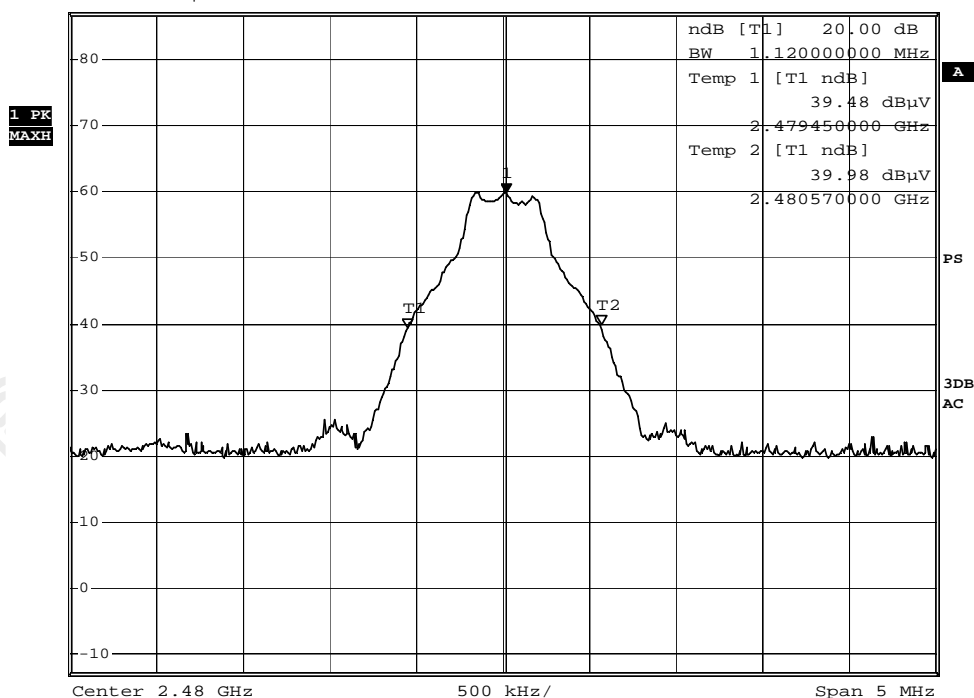
No. : DM108561

Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2480	1.120	Within 2400-2483.5

(Highest Operating Frequency)- (GFSK)



Ref 87 dBμV *Att 10 dB *RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 59.71 dBμV
*SWT 5 ms 2.480020000 GHz



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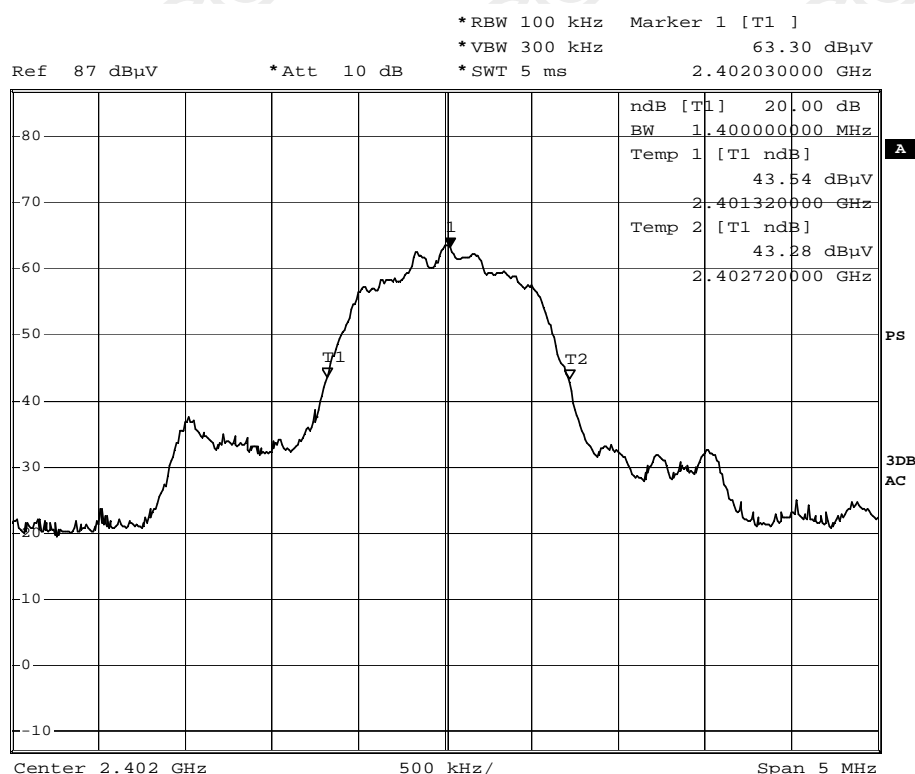
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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2402	1.400	Within 2400-2483.5

(Lowest Operating Frequency)- ($\pi/4$ DQPSK)



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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2442	1.410	Within 2400-2483.5

(Middle Operating Frequency)- ($\pi/4$ DQPSK)

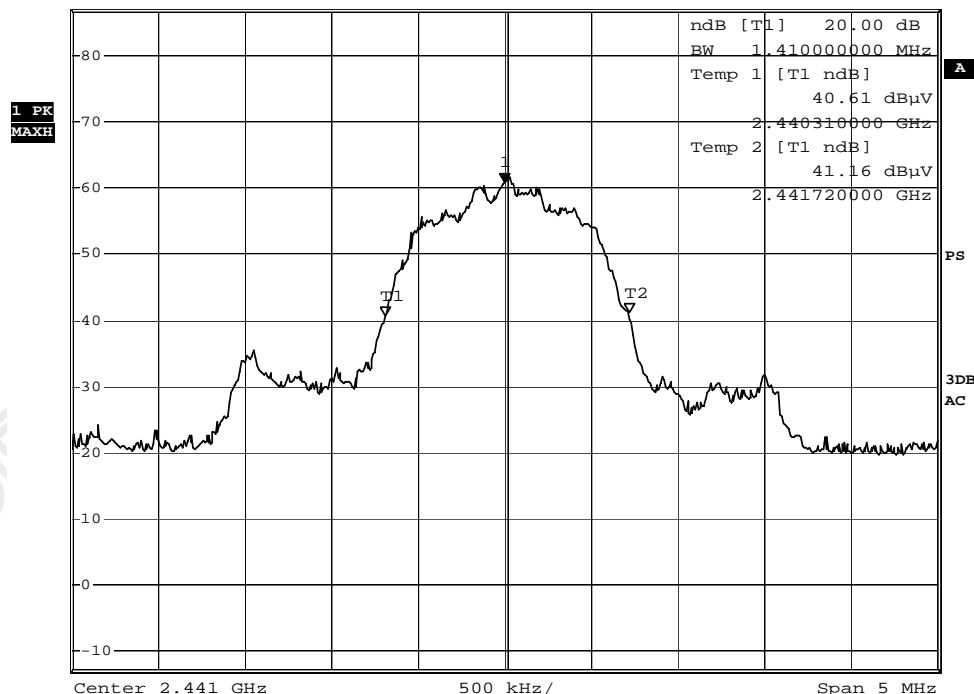


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 60.83 dB μ V
*SWT 5 ms 2.441000000 GHz

Ref 87 dB μ V

*Att 10 dB

2.441000000 GHz



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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2480	1.360	Within 2400-2483.5

(Highest Operating Frequency)- ($\pi/4$ DQPSK)



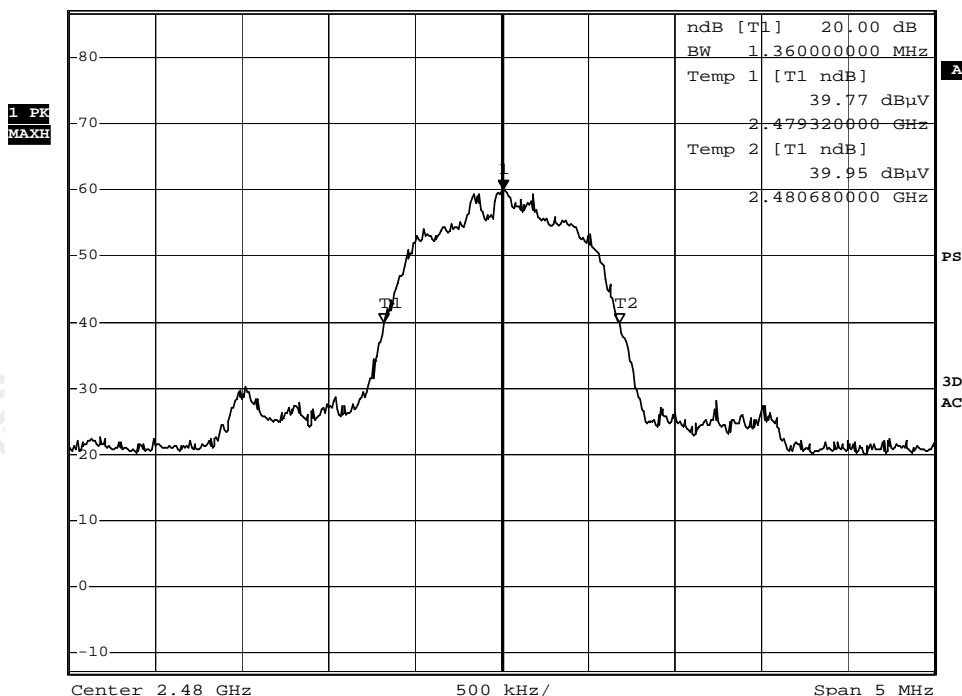
Ref 87 dB μ V

*Att 10 dB

*RBW 100 kHz Marker 1 [T1]

*VBW 300 kHz 59.99 dB μ V

*SWT 5 ms 2.480010000 GHz



Center 2.48 GHz

500 kHz/

Span 5 MHz

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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2402	1.360	Within 2400-2483.5

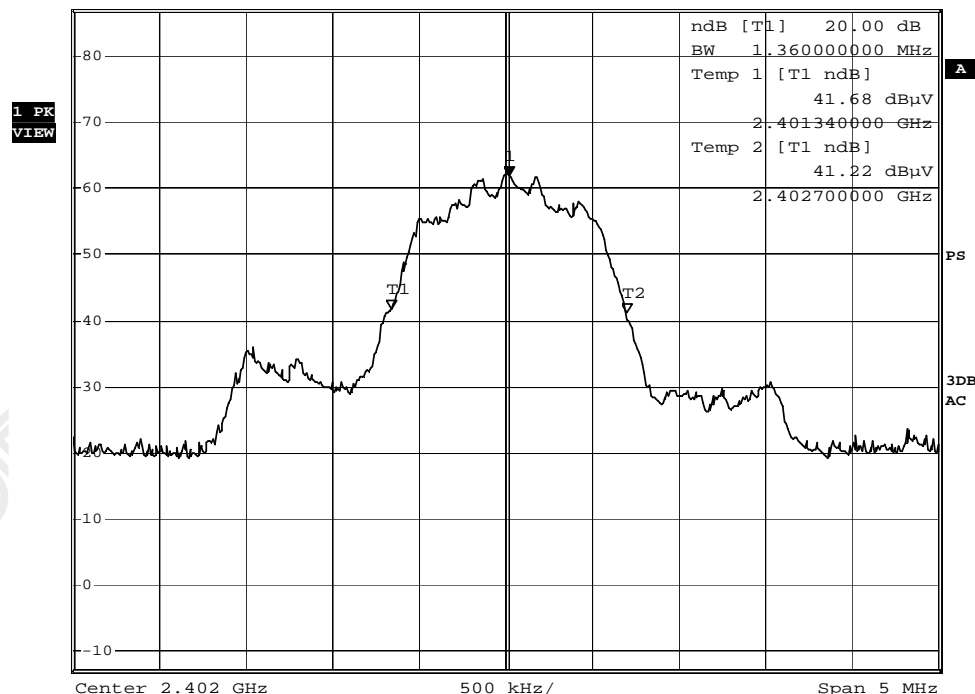
(Lowest Operating Frequency)- (8DPSK)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 61.85 dBuV
*SWT 5 ms 2.402020000 GHz

Ref 87 dBuV

*Att 10 dB



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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2442	1.380	Within 2400-2483.5

(Middle Operating Frequency)- (8DPSK)

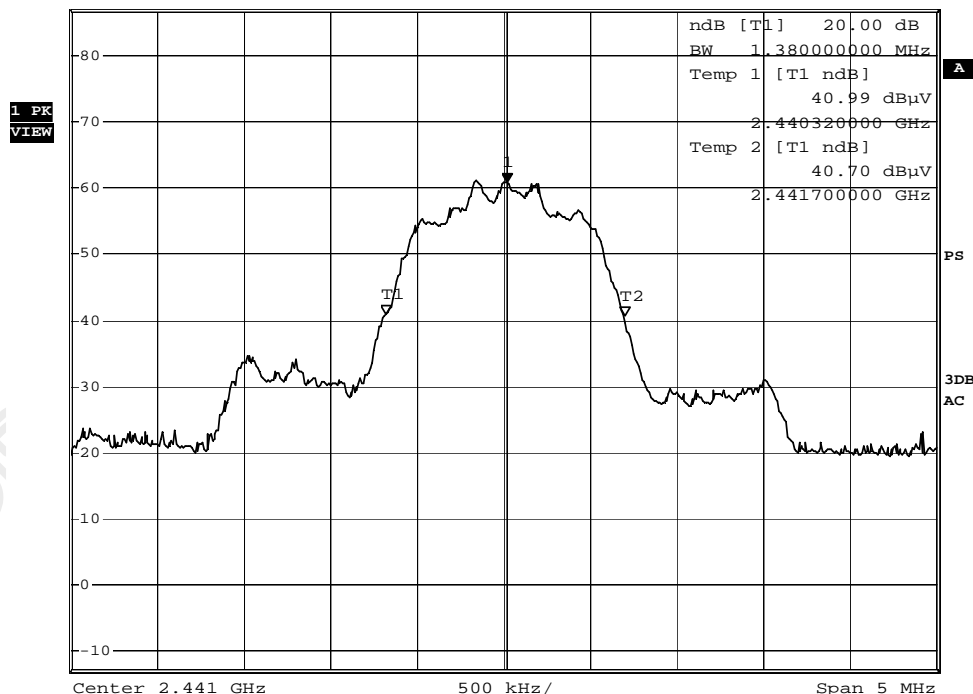


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 60.86 dBμV
*SWT 5 ms 2.441020000 GHz

Ref 87 dBμV

*Att 10 dB

2.441020000 GHz



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Fundamental Frequency [MHz]	20dB Bandwidth [MHz]	FCC Limits [MHz]
2480	1.350	Within 2400-2483.5

(Highest Operating Frequency)- (8DPSK)

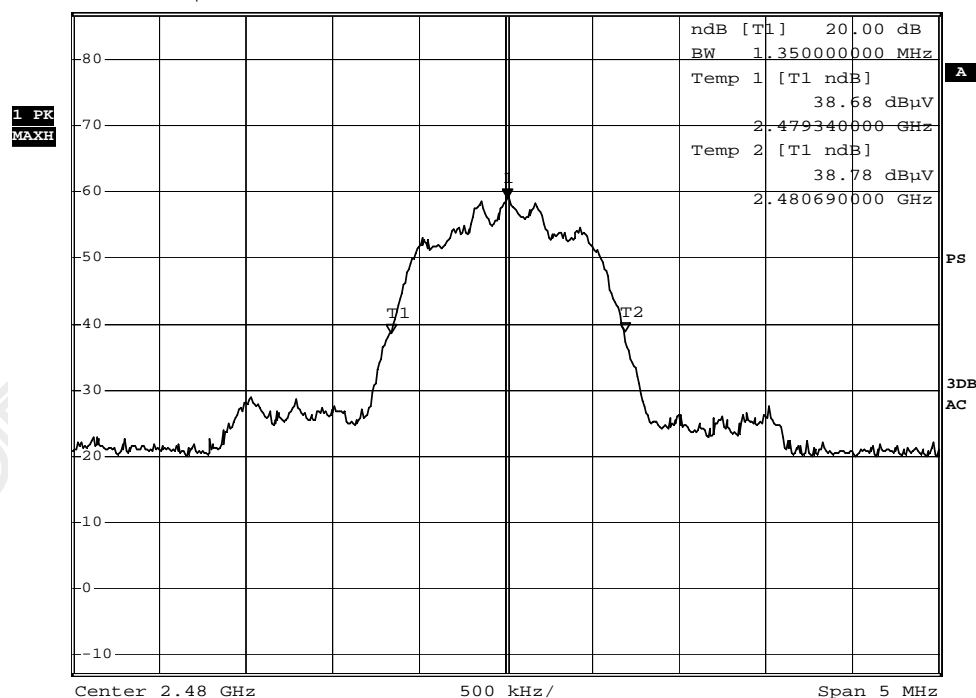


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 59.05 dBuV
*SWT 5 ms 2.480010000 GHz

Ref 87 dBuV

*Att 10 dB

2.480010000 GHz



Center 2.48 GHz

500 kHz/

Span 5 MHz

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Channel Centre Frequency

Requirements:

Frequency hopping system in the 2400-2483.5MHz band shall use at least 79 (Channel 0 to 78) non-overlapping channels.

The EUT operates in according with the Bluetooth system specification within the 2400 - 2483.5 MHz frequency band.

RF channels for Bluetooth systems are spaced 1 MHz and are ordered in channel number k. In order to comply with out-of-band regulations, a lower frequency guard band of 2.0 MHz and a higher frequency guard band of 3.5MHz is used.

The operating frequencies of each channel are as follows:

First RF channel start from 2400MHz + 2MHz guard band = 2402MHz

Frequency of RF Channel = 2402+k MHz, k = 0,...,78 (Channel separation = 1MHz)

Hopping Channel Separation

Requirements:

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.

Limit:

The measured minimum bandwidth * 2/3 = 1.090MHz * 2/3 = 727kHz

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Channel separation = 1MHz (>727kHz) (GFSK)

Channel 0 – Channel 1, Pass

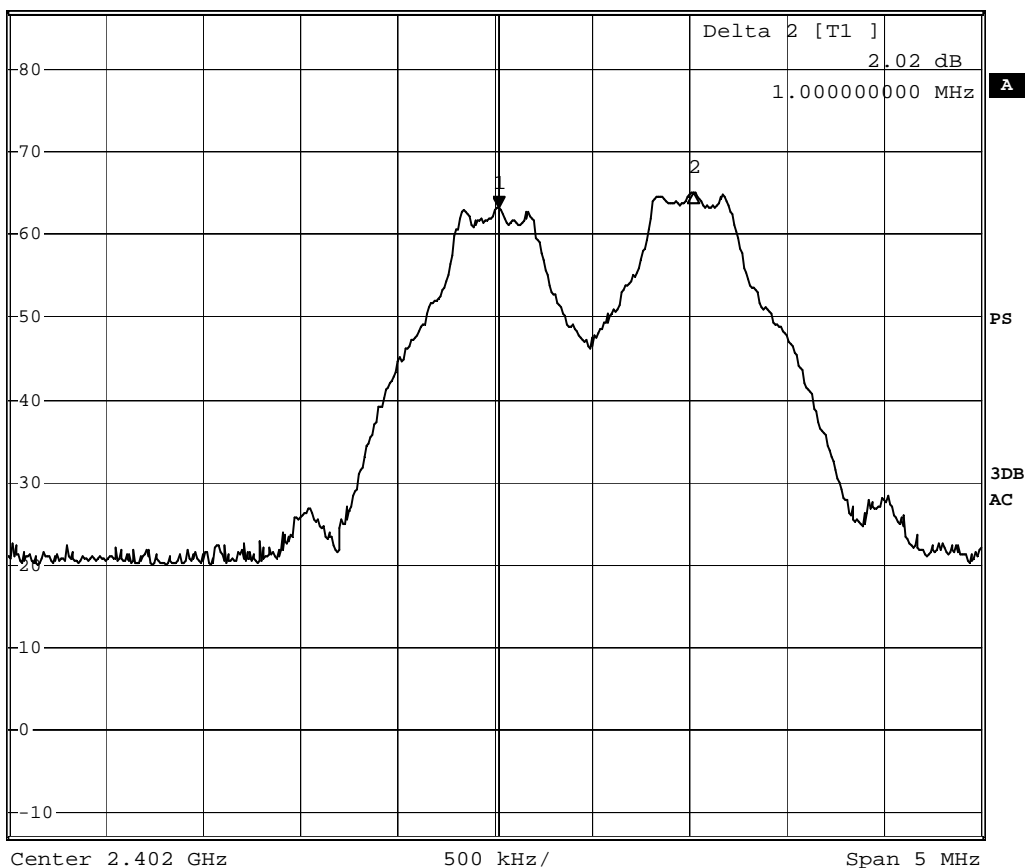


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 63.15 dBμV
*SWT 5 ms 2.402020000 GHz

Ref 87 dBμV

*Att 10 dB

2.402020000 GHz



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Channel 39 – Channel 40, Pass



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 63.42 dBμV
*SWT 5 ms 2.441010000 GHz

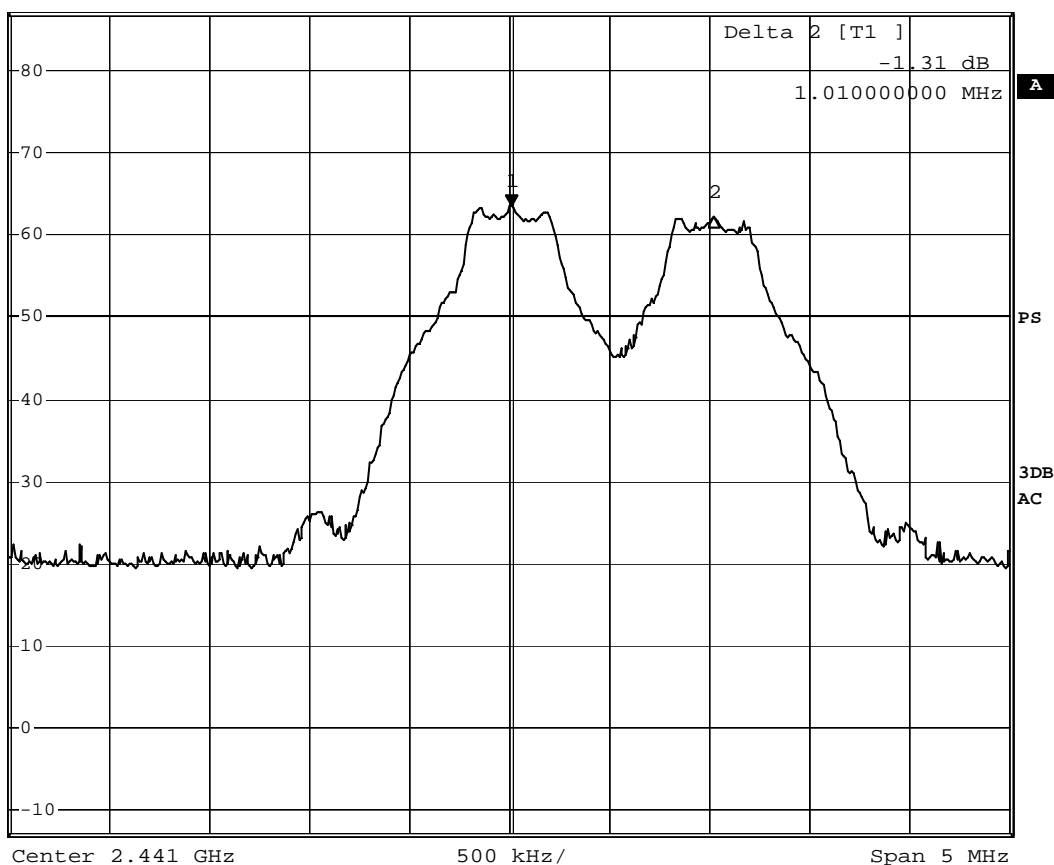
Ref 87 dBμV

*Att 10 dB

*SWT 5 ms

2.441010000 GHz

1 PK
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Channel 78 – Channel 79, Pass



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 60.04 dBμV
*SWT 5 ms 2.478990000 GHz

Ref 87 dBμV

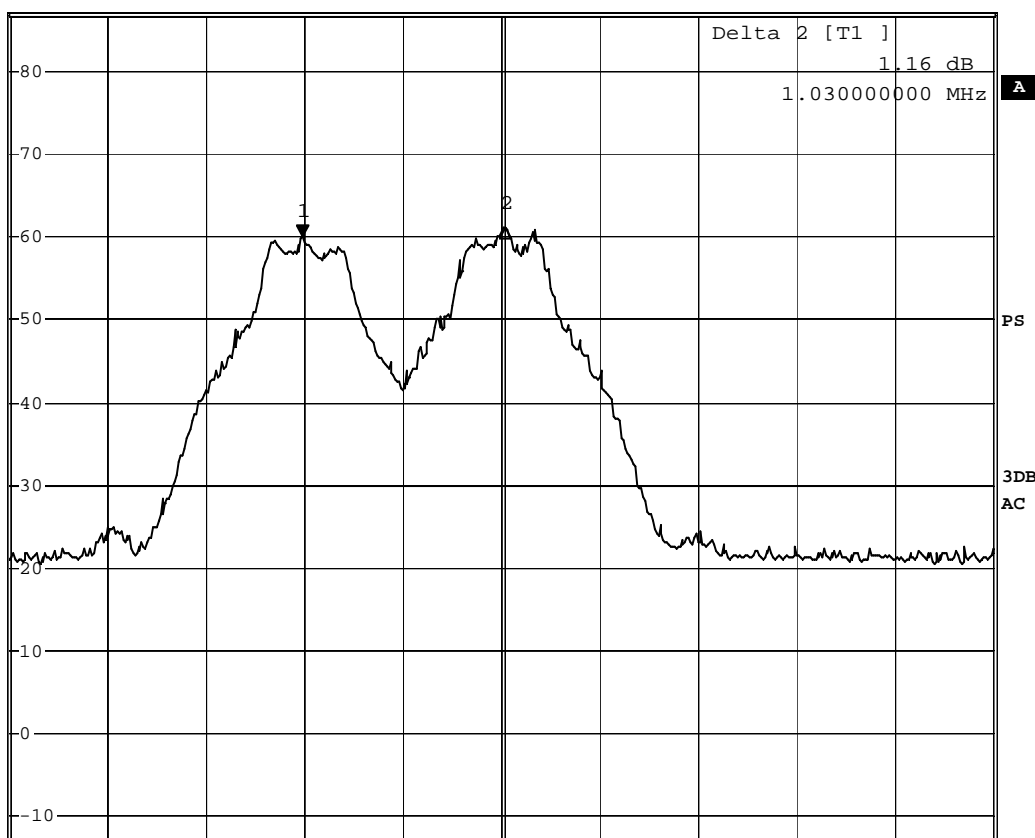
*Att 10 dB

Delta 2 [T1]

1.16 dB

1.030000000 MHz

1 PK
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Center 2.48 GHz

500 kHz/

Span 5 MHz

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Channel separation = 1MHz (>727kHz) ($\pi/4$ DQPSK)

Channel 0 – Channel 1, Pass



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 62.99 dB μ V
*SWT 5 ms 2.402020000 GHz

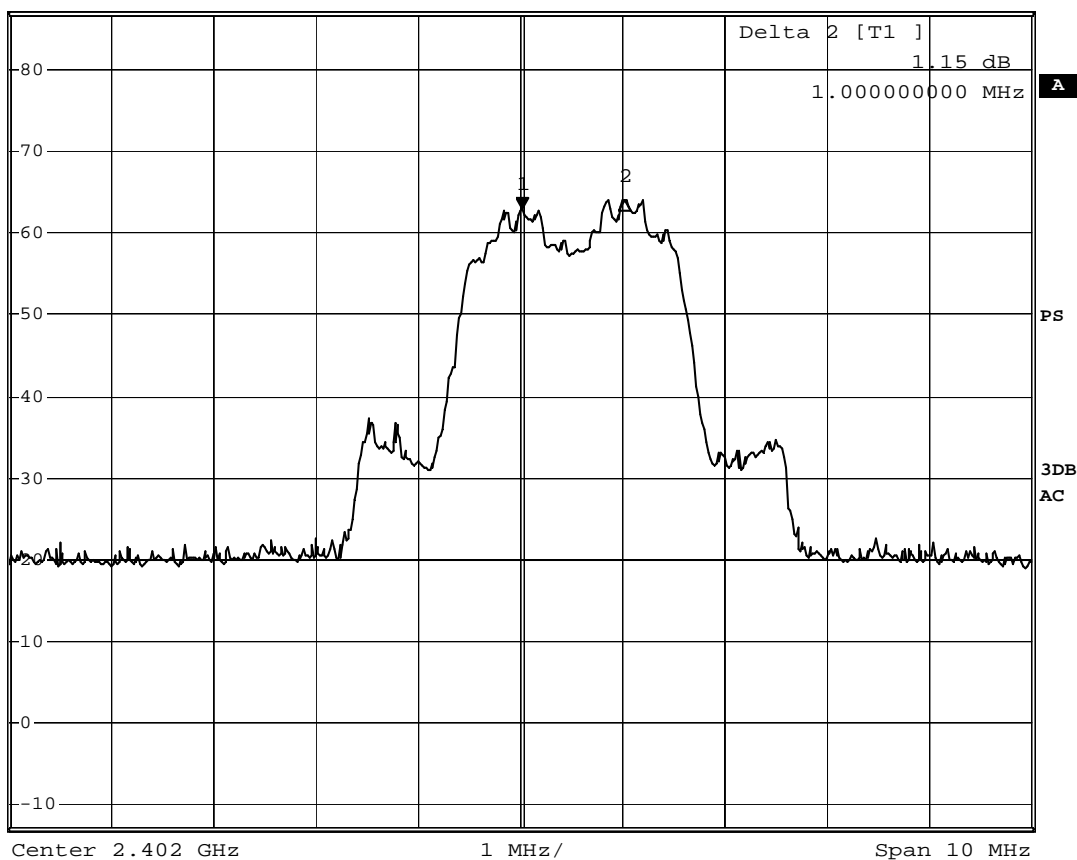
Ref 87 dB μ V

*Att 10 dB

*SWT 5 ms

2.402020000 GHz

1 PK
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Channel 39 – Channel 40, Pass



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 62.01 dBμV
*SWT 5 ms 2.440020000 GHz

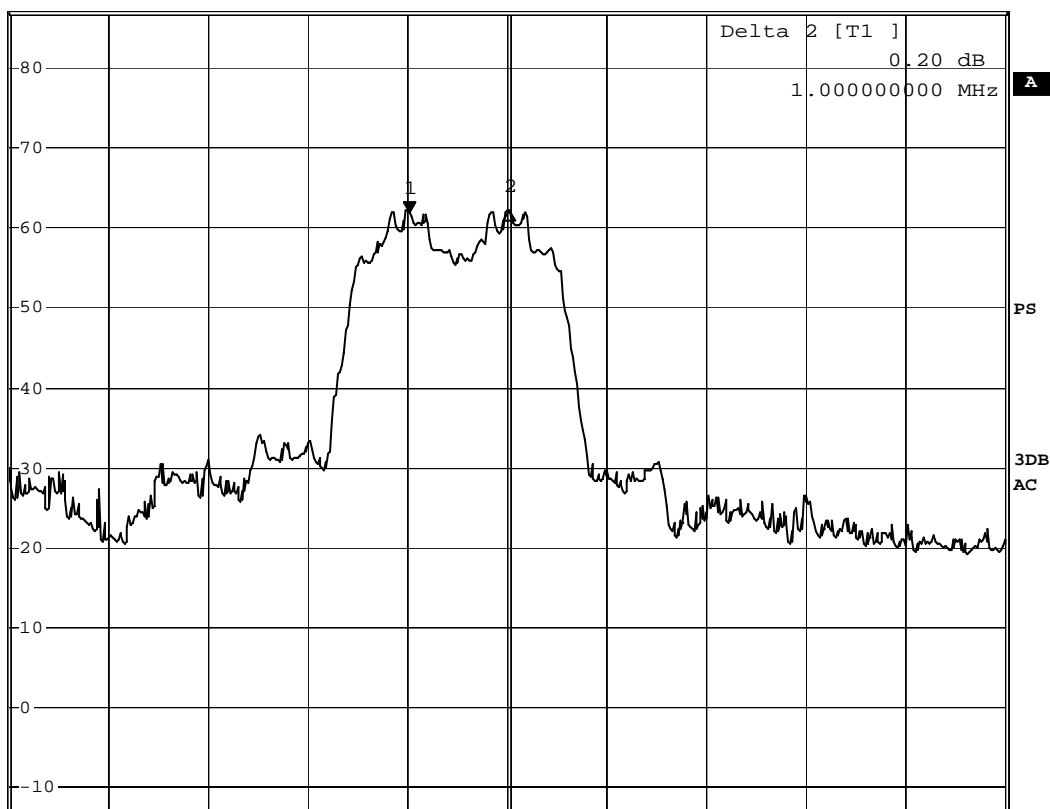
Ref 87 dBμV

*Att 10 dB

*SWT 5 ms

2.440020000 GHz

1 PK
VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

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Channel 78 – Channel 79, Pass



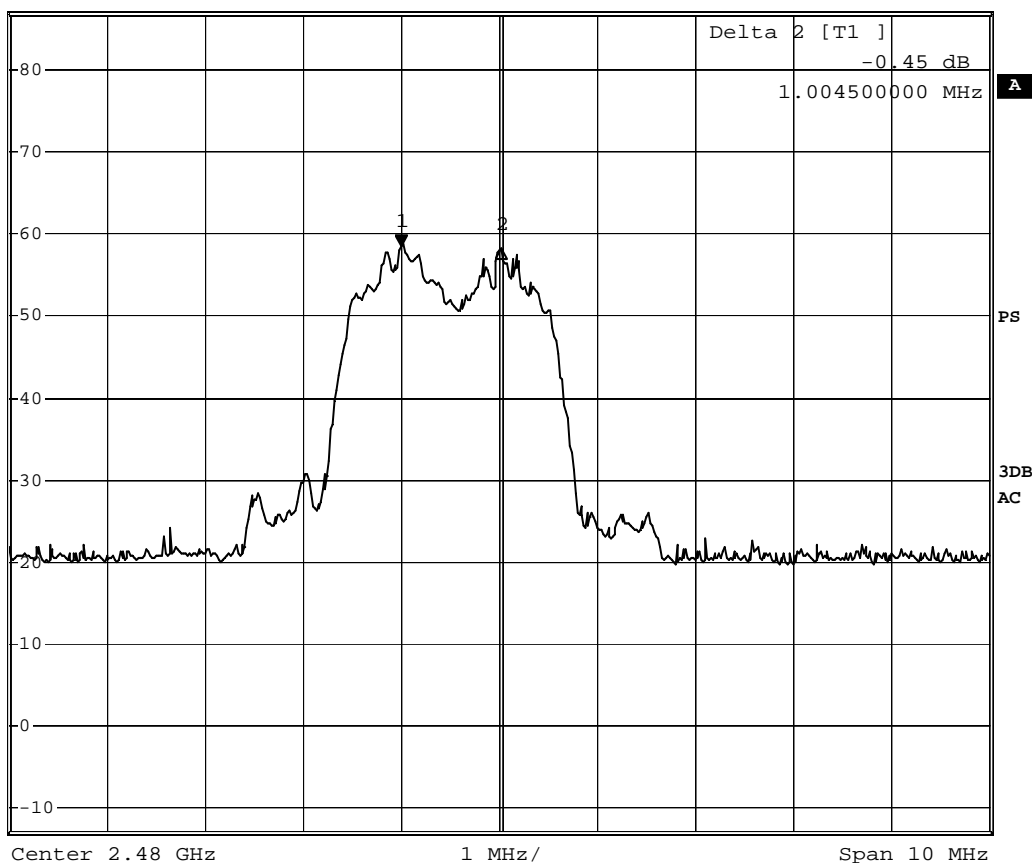
*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 58.62 dBμV
*SWT 5 ms 2.479008000 GHz

Ref 87 dBμV

*Att 10 dB

2.479008000 GHz

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Channel separation = 1MHz (>727kHz) (8DPSK)

Channel 0 - Channel 1, Pass



*RBW 100 kHz Marker 1 [T1]

*VBW 300 kHz

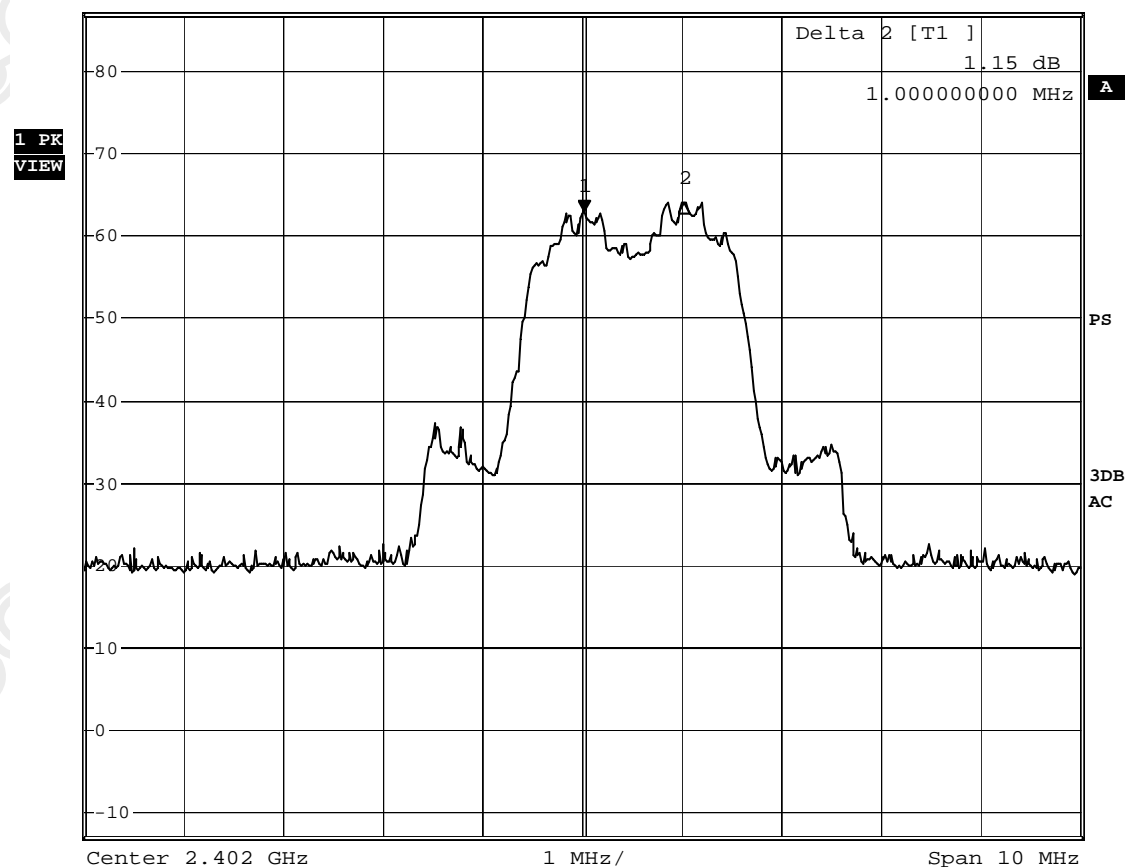
62.99 dBμV

Ref 87 dBμV

*Att 10 dB

*SWT 5 ms

2.402020000 GHz



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Channel 39 – Channel 40, Pass



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 62.01 dBμV
*SWT 5 ms 2.440020000 GHz

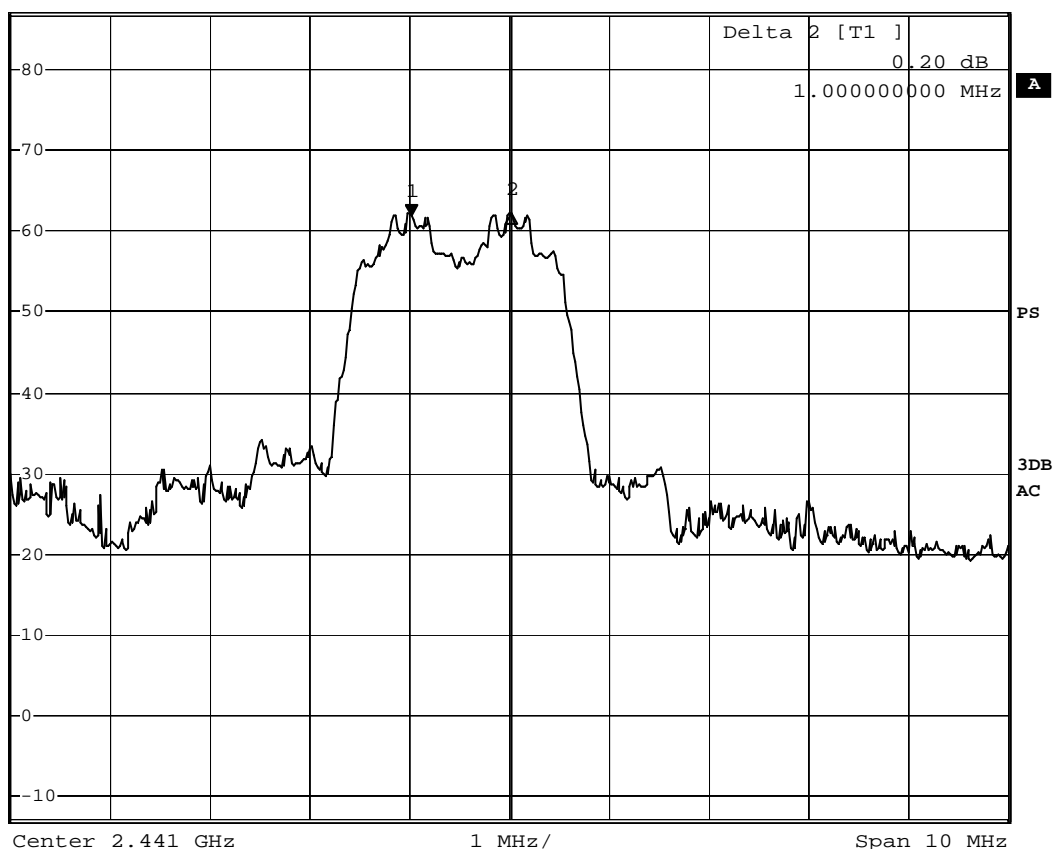
Ref 87 dBμV

*Att 10 dB

*SWT 5 ms

2.440020000 GHz

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Channel 78 – Channel 79, Pass

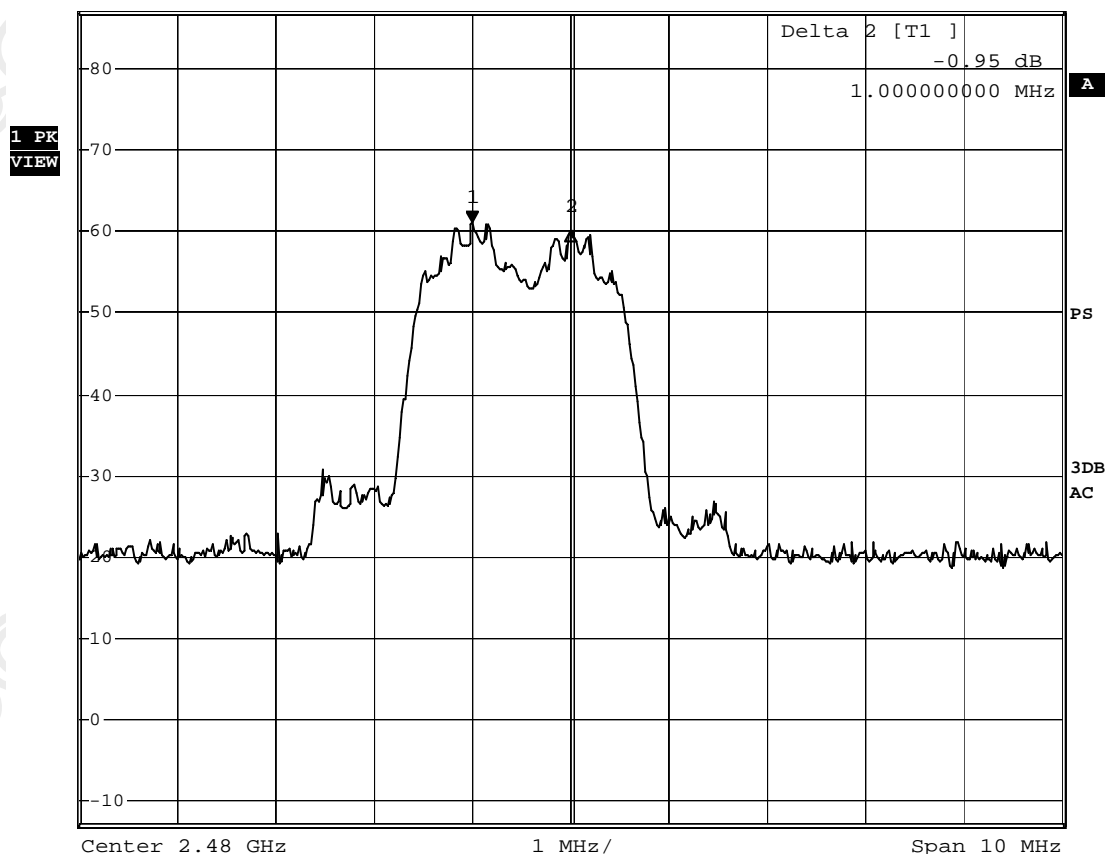


*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 61.10 dBμV
*SWT 5 ms 2.479000000 GHz

Ref 87 dBμV

*Att 10 dB

2.479000000 GHz



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Band-edge Compliance of RF Emissions – Lowest (GFSK)



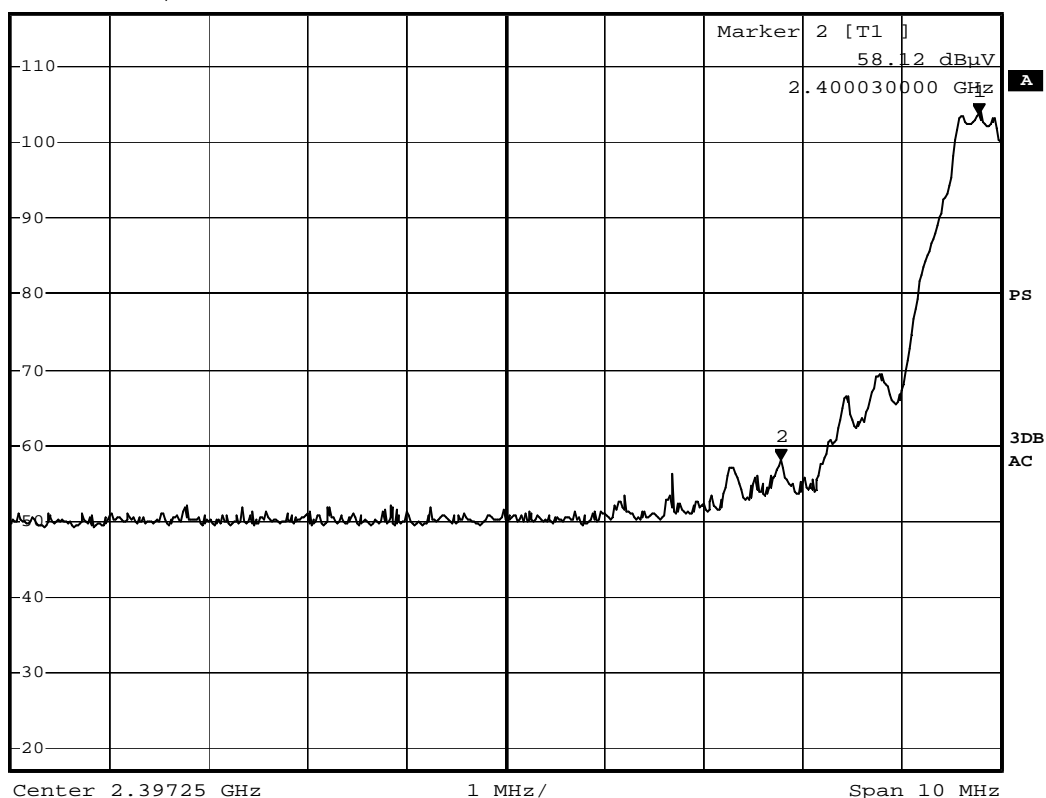
*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 103.81 dBuV
SWT 2.5 ms 2.402030000 GHz

Ref 117 dBuV

*Att 40 dB

SWT 2.5 ms

2.402030000 GHz



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Band-edge Compliance of RF Emissions – Highest (GFSK)



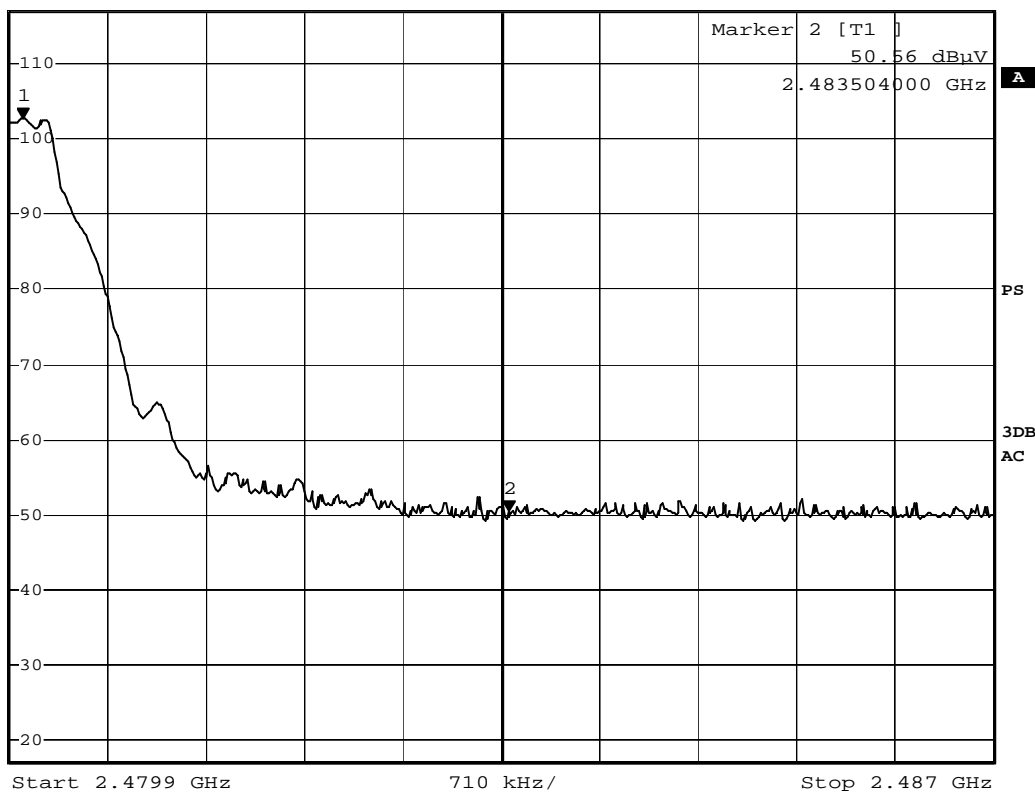
*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 102.73 dBμV
SWT 2.5 ms 2.48000000 GHz

Ref 117 dBμV

*Att 40 dB

SWT 2.5 ms

2.48000000 GHz



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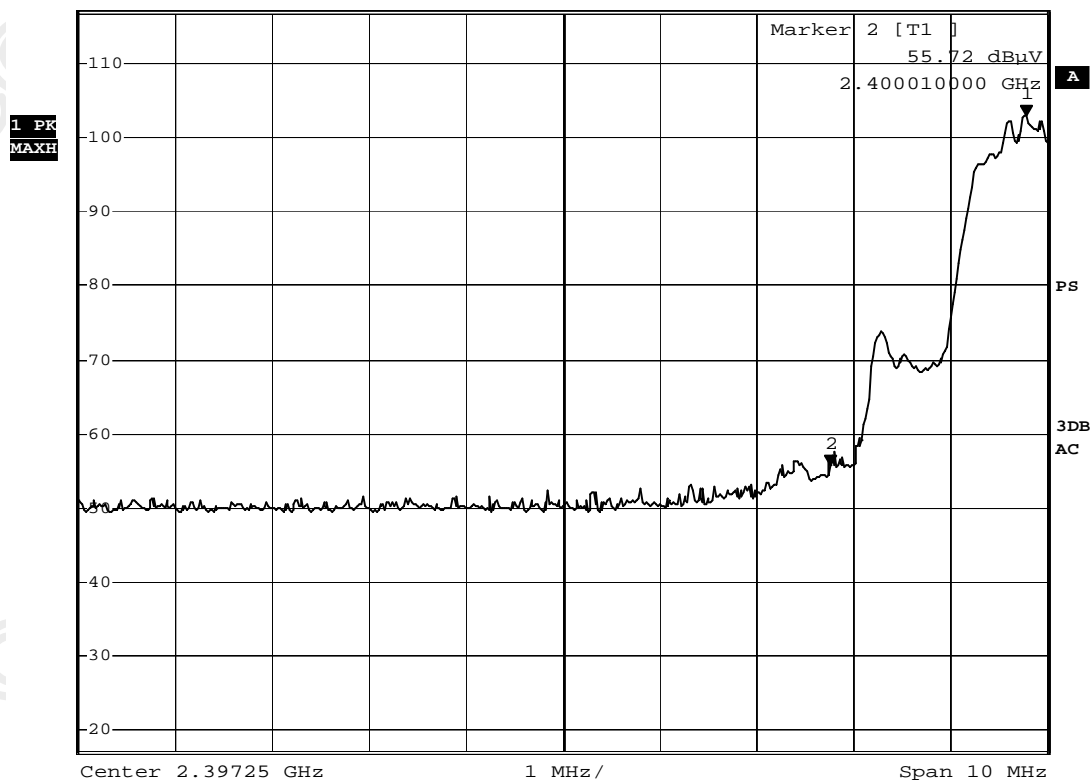
No. : DM108561

Band-edge Compliance of RF Emissions – Lowest ($\pi/4$ DQPSK)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 102.90 dBuV

Ref 117 dBuV *Att 40 dB SWT 2.5 ms 2.402030000 GHz



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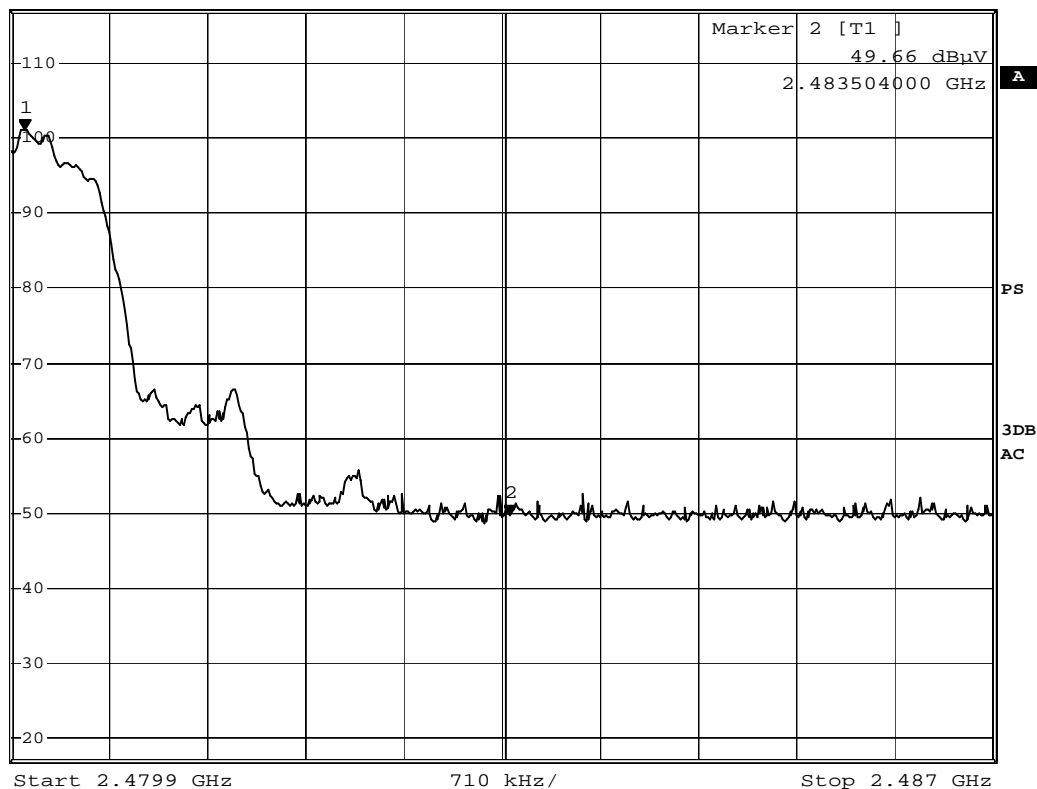
No. : DM108561

Band-edge Compliance of RF Emissions – Highest ($\pi/4$ DQPSK)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 101.25 dBuV

Ref 117 dBuV *Att 40 dB SWT 2.5 ms 2.48000000 GHz



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Band-edge Compliance of RF Emissions – Lowest (8DPSK)



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 102.93 dBuV
SWT 2.5 ms 2.402030000 GHz

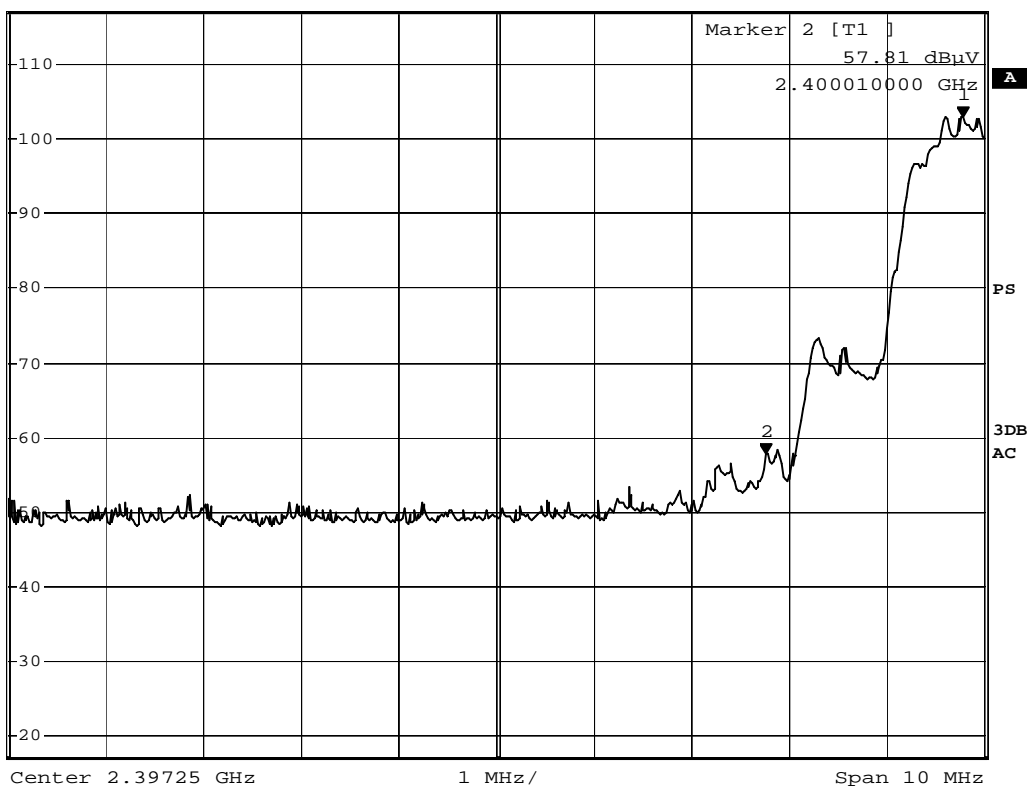
Ref 117 dBuV

*Att 40 dB

SWT 2.5 ms

2.402030000 GHz

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Band-edge Compliance of RF Emissions – Highest (8DPSK)



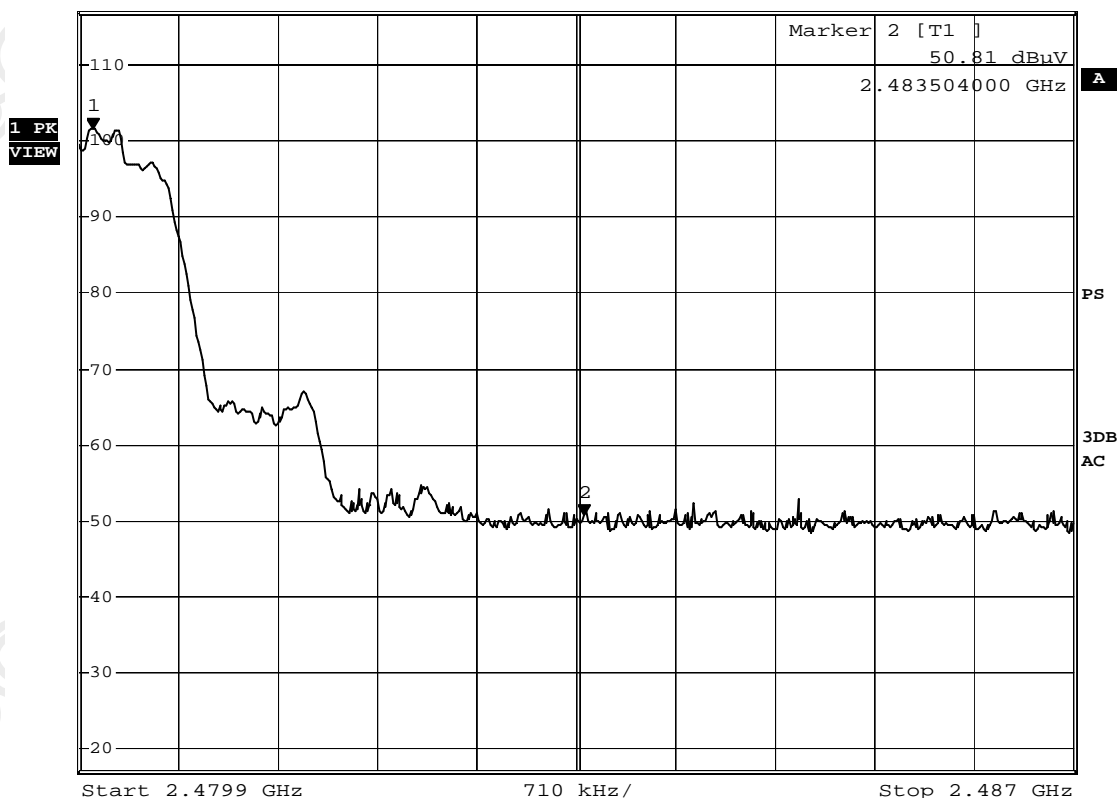
*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 101.61 dBuV
SWT 2.5 ms 2.480000000 GHz

Ref 117 dBuV

*Att 40 dB

SWT 2.5 ms

2.480000000 GHz



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Antenna Requirement

Test Requirements: § 15.203

Test Specification:

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 shall be considered sufficient to comply with the provisions of this section. 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.

Test Results:

The EUT has 1 [Inverted-F Antenna (PCB layout)] which is permanently attached to the main unit and attached on PCB board, the antenna gain = 0dBi. All component install on inside of EUT. User unable to remove or changed the Antenna.

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Pseudorandom Hopping Algorithm

Requirements:

The channel frequencies shall be selected from a pseudorandom ordered list of hopping frequencies. Each frequency must be used equally by the transmitter.

EUT Pseudorandom Hopping Algorithm

The EUT is a Bluetooth device, the Pseudo-random hopping pattern; hopping characteristics and algorithm are based on the Bluetooth specification.

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Occupancy Time (Dwell time)

Requirements:

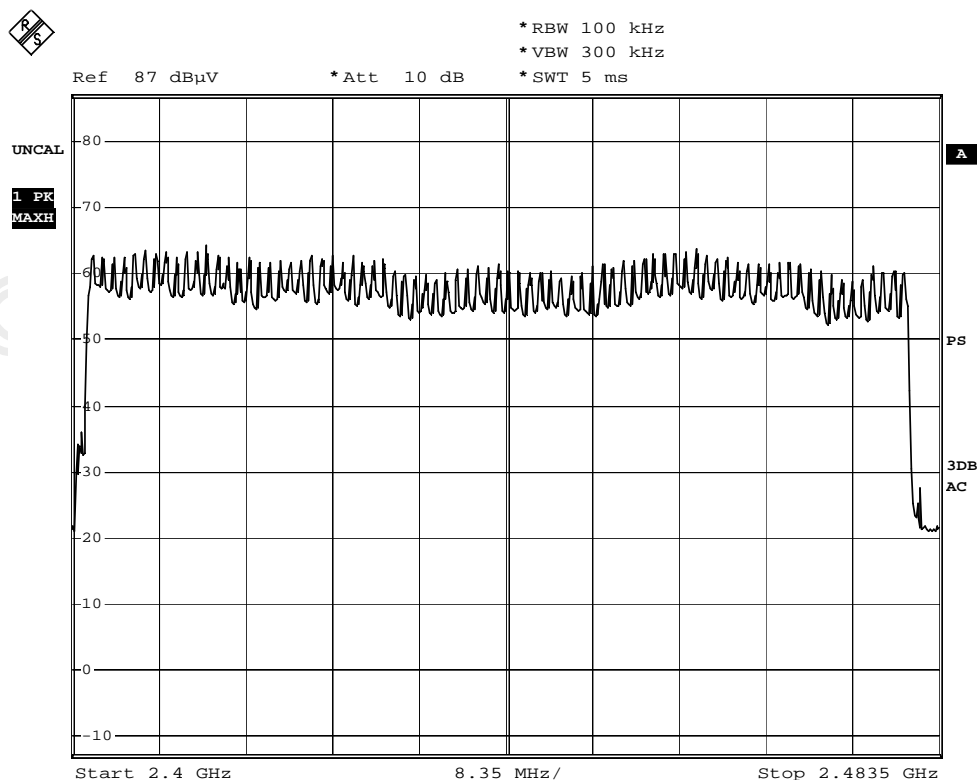
The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channel employed.
No requirements for Digital Transmission System.

Dwell Time = Pulse Duration * hop rate / number of channel * observation duration

Observed duration: 0.4s x 79 = 31.6s

Measurement Data:

Channel Occupied in 8DPSK: 79 of 79 Channel



Date: 4.AUG.2012 10:59:41

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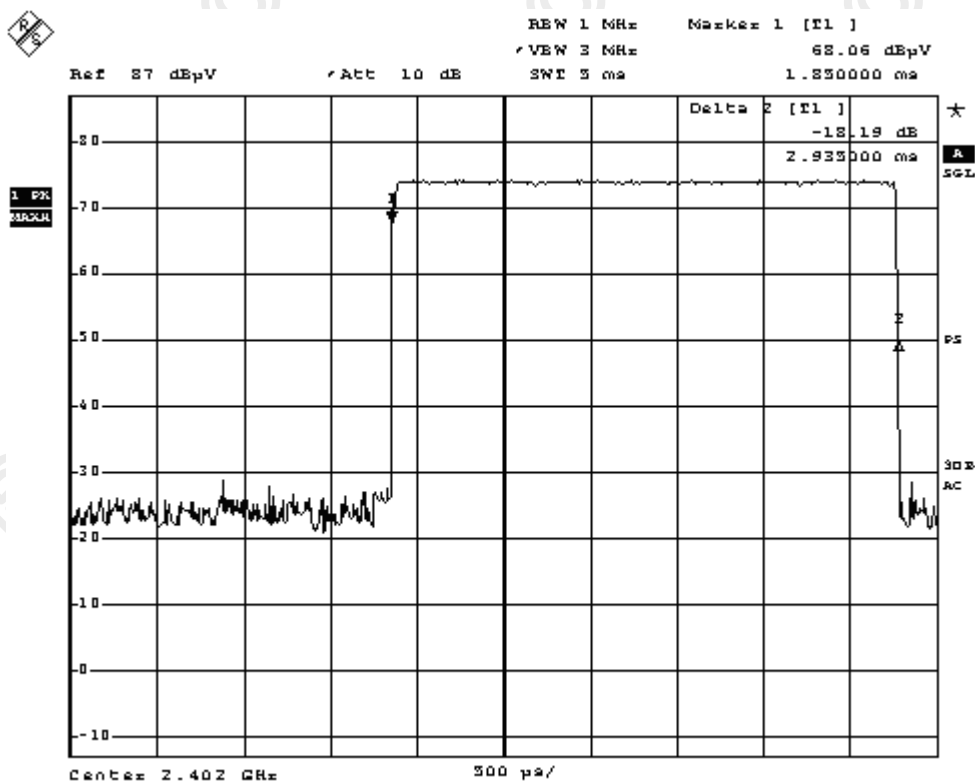
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DH5 Packet:

DH5 Packet permit maximum $1600/79/6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). The Dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds

Fig. A
[Pulse duration of Lowest Channel]



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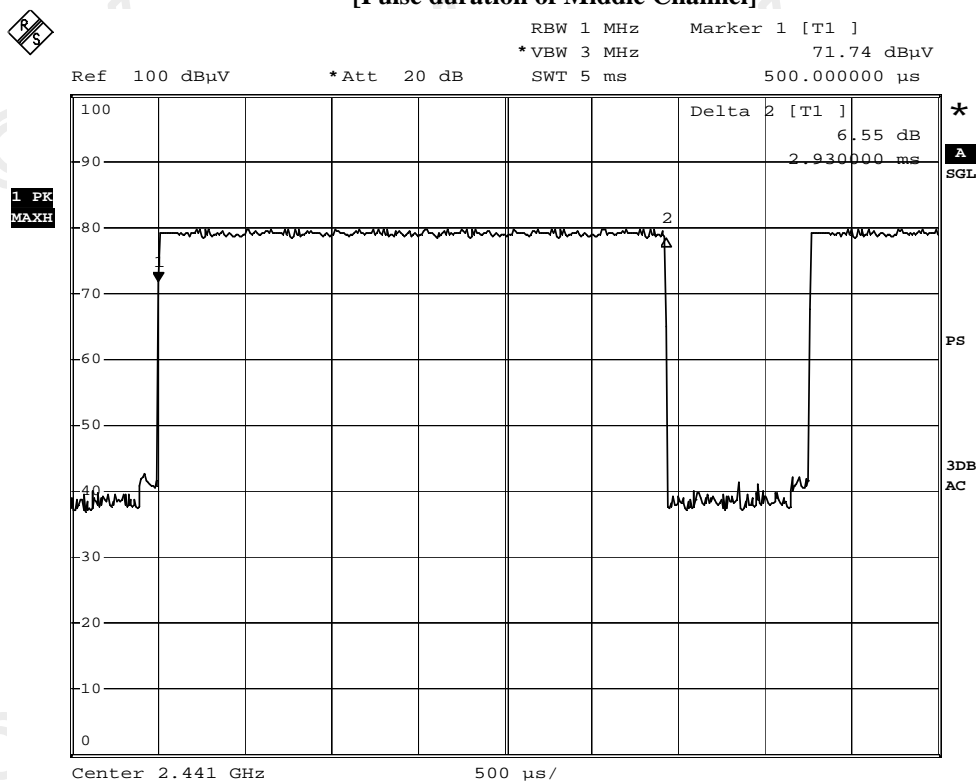
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Fig. B
[Pulse duration of Middle Channel]



Date: 13.SEP.2012 17:24:24

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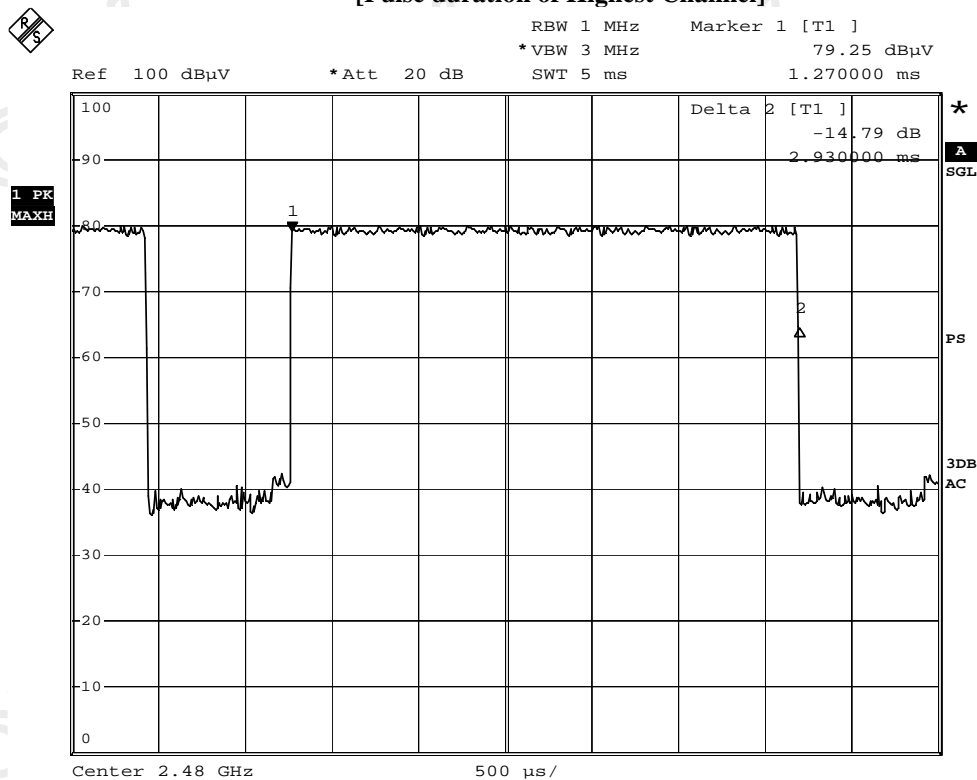
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Fig. C
[Pulse duration of Highest Channel]



Date: 13.SEP.2012 17:27:08

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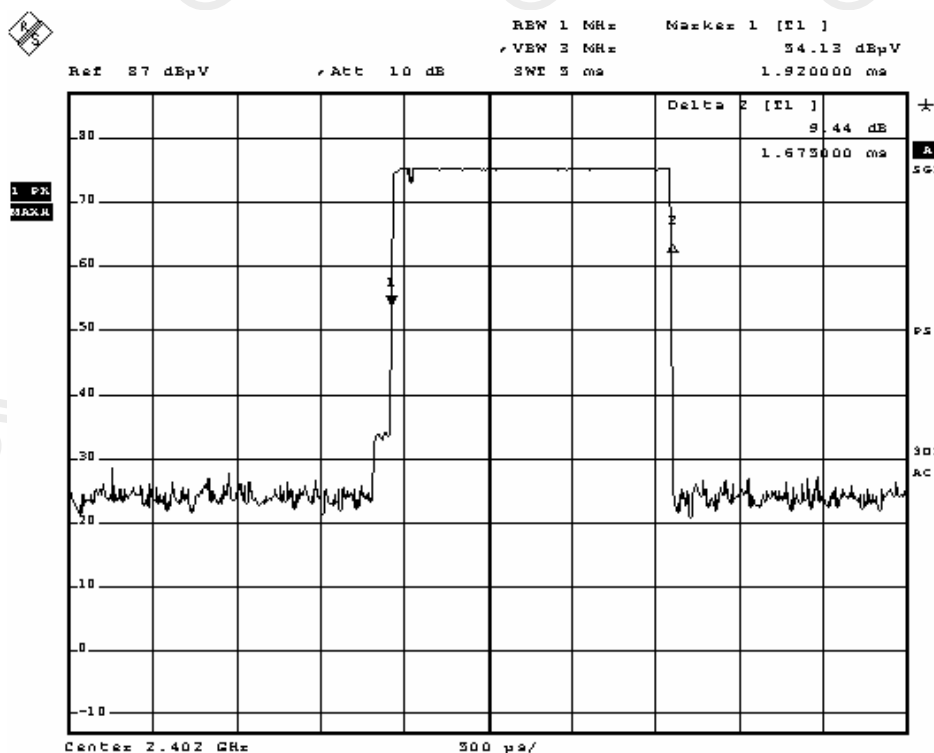
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DH3 Packet:

DH3 Packet permit maximum $1600/79/4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). The Dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds

Fig. D
[Pulse duration of Lowest Channel]



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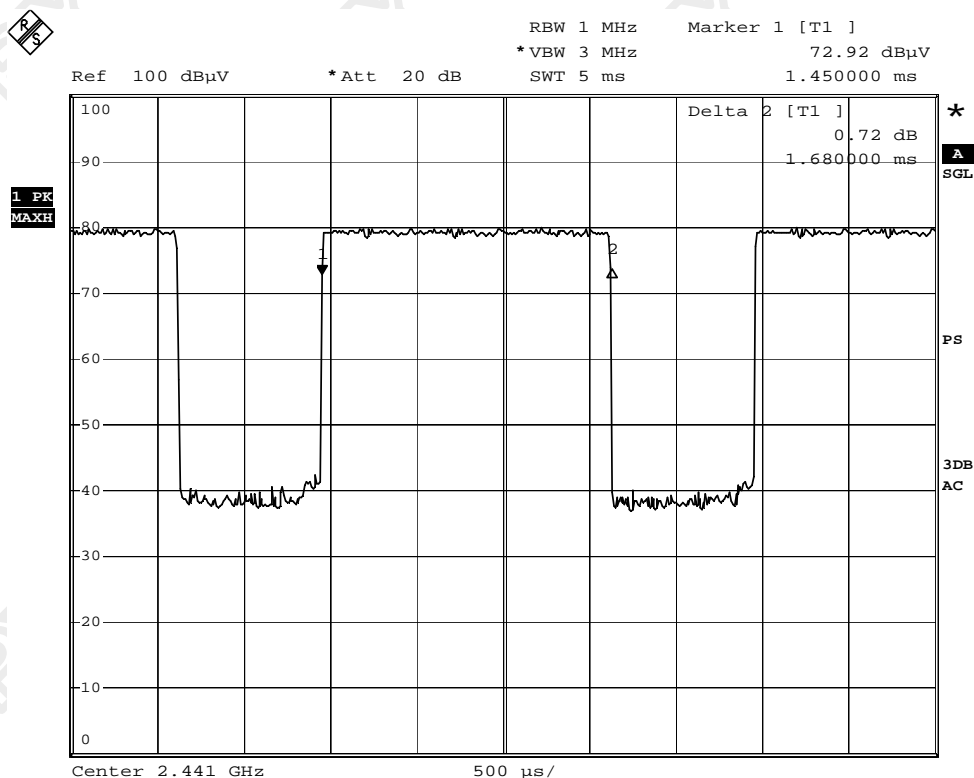
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Fig. E
[Pulse duration of Middle Channel]



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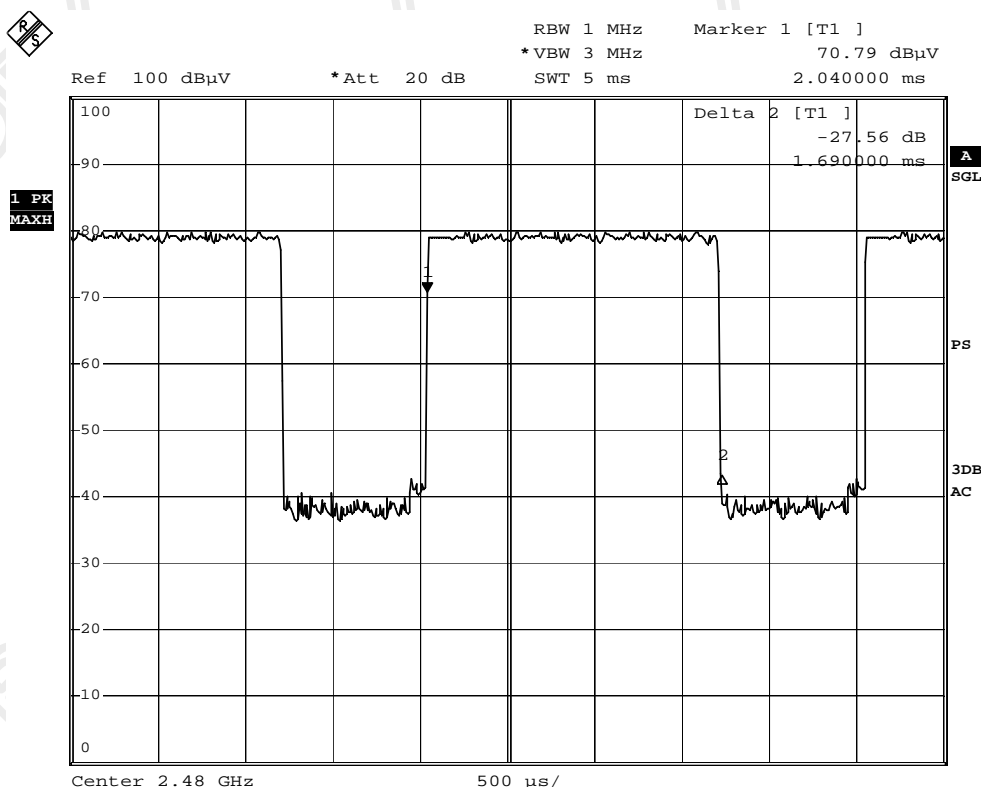
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Fig. F
[Pulse duration of Highest Channel]



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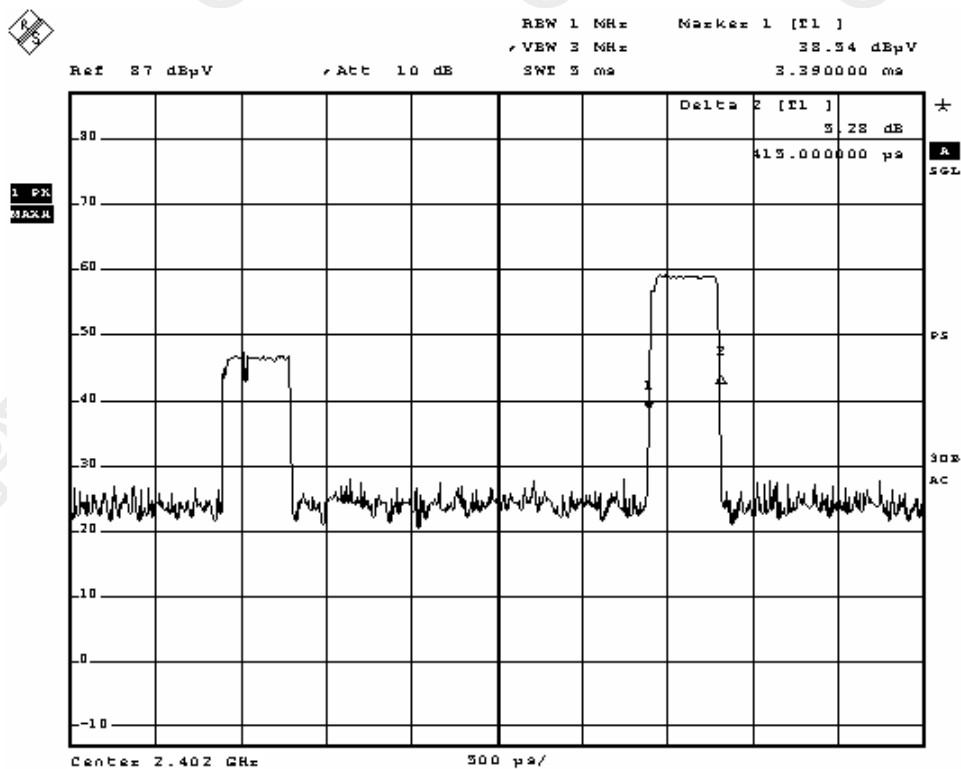
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DH1 Packet:

DH1 Packet permit maximum $1600/79/2 = 10.12$ hops per second in each channel (3 time slots RX, 1 time slot TX). The Dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds

Fig. G
[Pulse duration of Lowest Channel]



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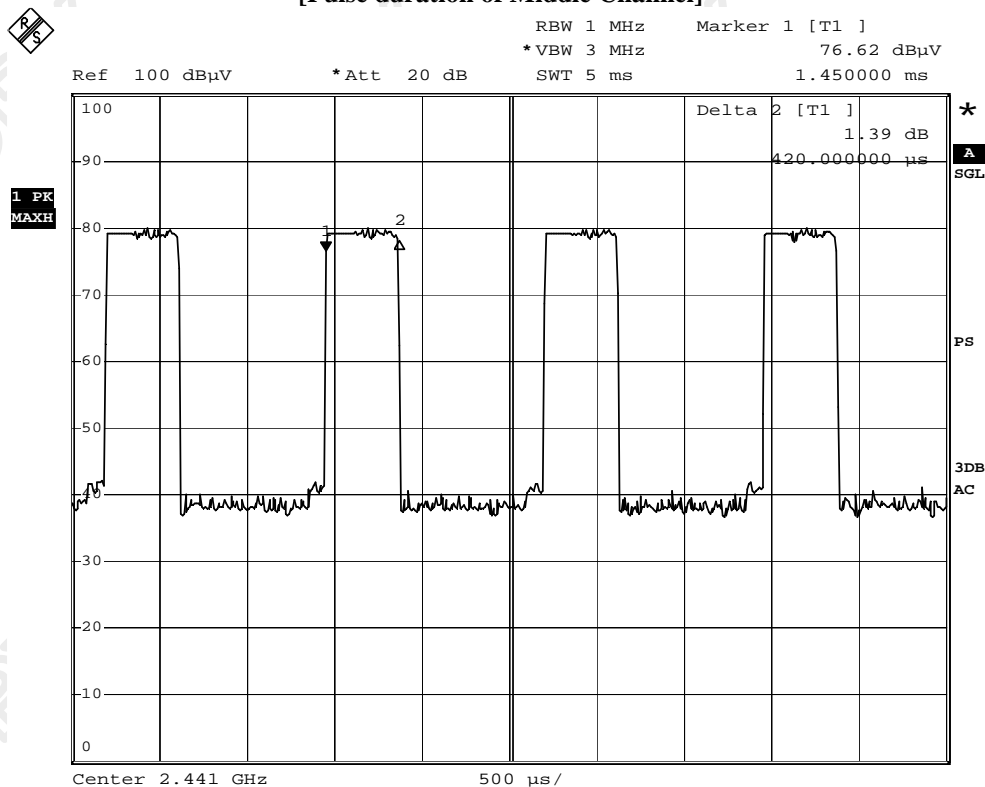
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Fig. H
[Pulse duration of Middle Channel]



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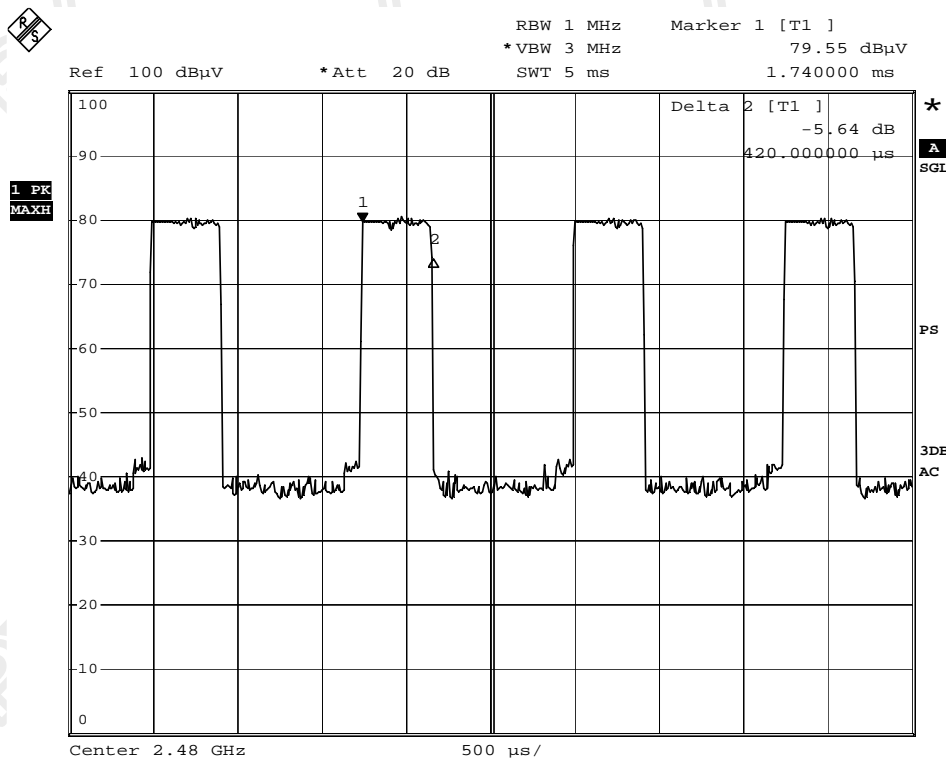
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Fig. I
[Pulse duration of Highest Channel]



Time of occupancy (Dwell Time):

Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Results
DH5	2402	2.935	0.313	0.400	Complies
DH5	2442	2.930	0.312	0.400	Complies
DH5	2480	2.930	0.312	0.400	Complies
DH3	2402	1.675	0.268	0.400	Complies
DH3	2442	1.680	0.269	0.400	Complies
DH3	2480	1.690	0.270	0.400	Complies
DH1	2402	0.415	0.133	0.400	Complies
DH1	2442	0.420	0.134	0.400	Complies
DH1	2480	0.420	0.134	0.400	Complies

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Appendix A

List of Measurement Equipment

Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2012.07.06
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2010.11.20
EMD062	Double-Ridged Waveguide	ETS.LINDGREN	3117	00075933	2011.11.20
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	N/A
EMD130	Horn Antenna	Chengdu AINFO Inc.	JXTXLB-10180-SF	J2031090903006	2011.08.21

Conducted Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD003	IMPULSEGRENZER PULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	100071	2012.03.09
EMD004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ESH3-Z5	100102	2012.03.09
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2012.07.06
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	N/A

Remarks:-

CM Corrective Maintenance

N/A Not Applicable or Not Available

TBD To Be Determined

Appendix B

Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	USB flash drive	27115	N/A	8GB
2	iPod Touch	A1367	BCG-E2407	N/A

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Appendix C

Photographs of EUT

Front View of the product



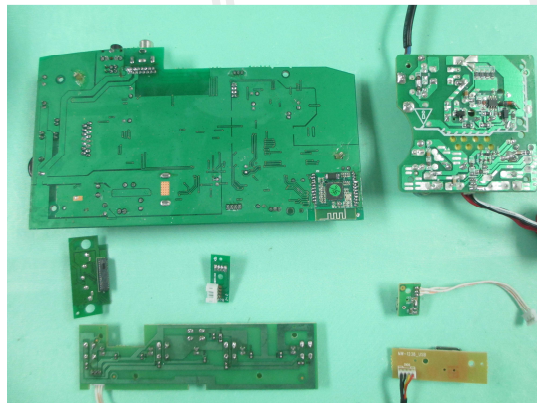
Rear View of the product



Inner Circuit Top View- All PCBs



Inner Circuit Bottom View- All PCBs



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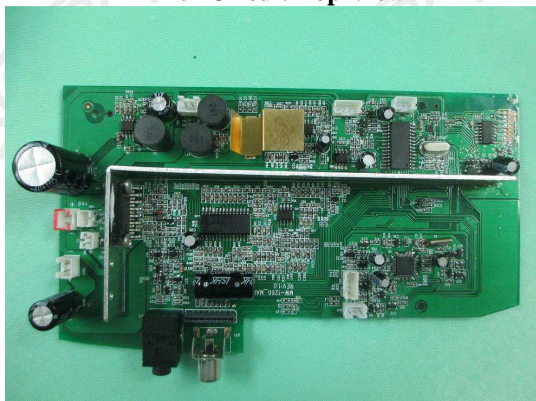
Date : 2012-10-26

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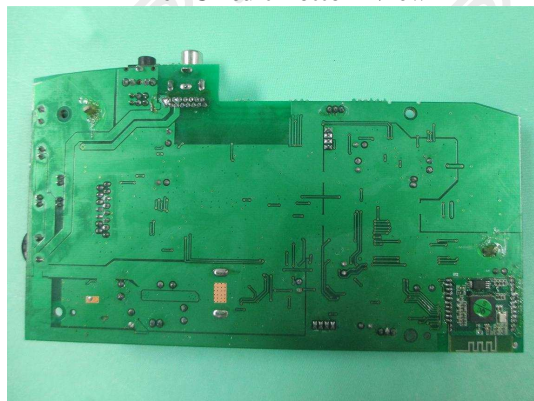
No. : DM108561

Photographs of EUT

Inner Circuit Top View



Inner Circuit Bottom View



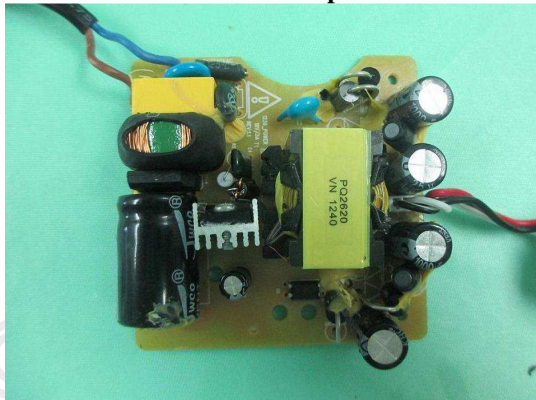
Inner Circuit Top View



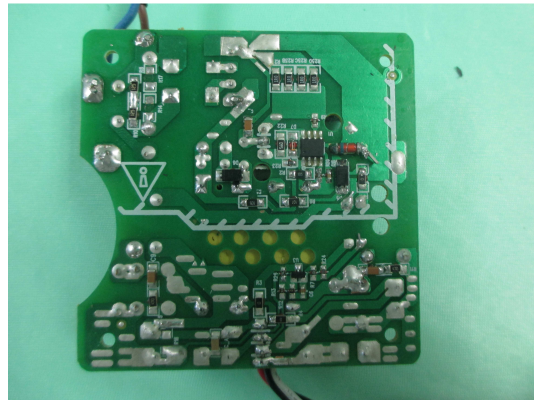
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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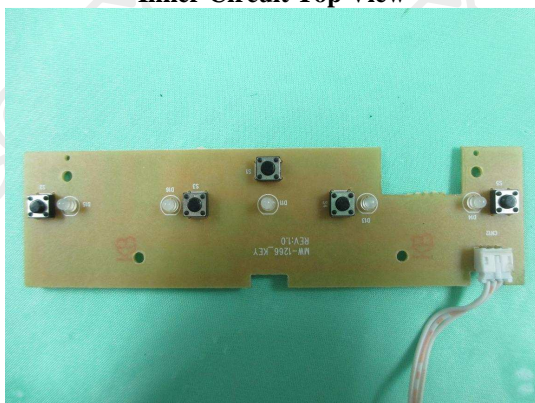
Date : 2012-10-26

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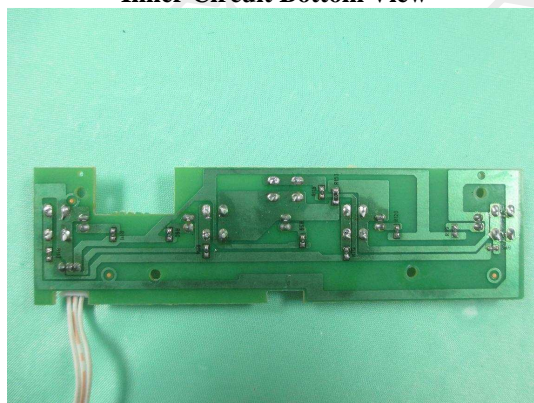
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Photographs of EUT

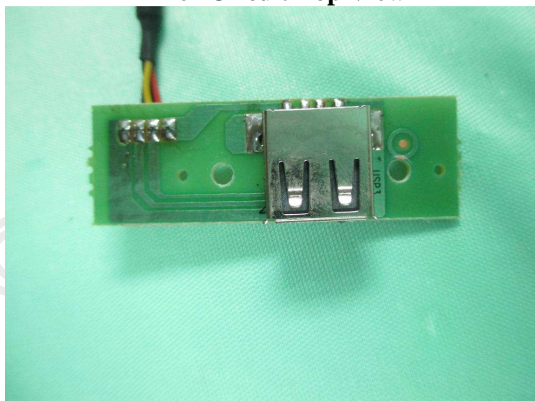
Inner Circuit Top View



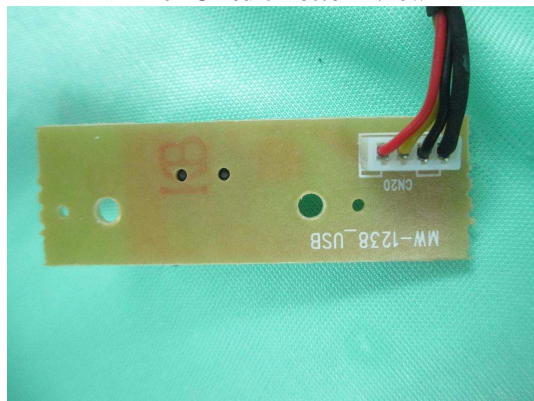
Inner Circuit Bottom View



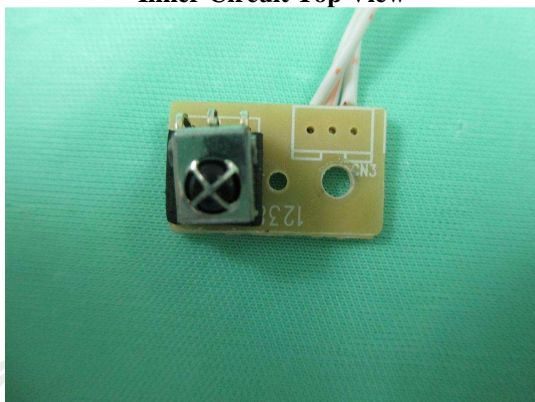
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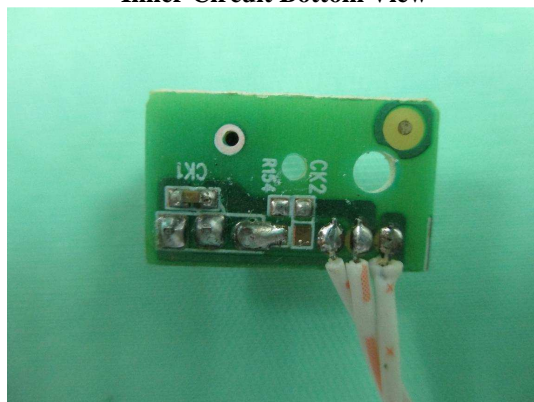
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



The Hong Kong Standards and Testing Centre Ltd.

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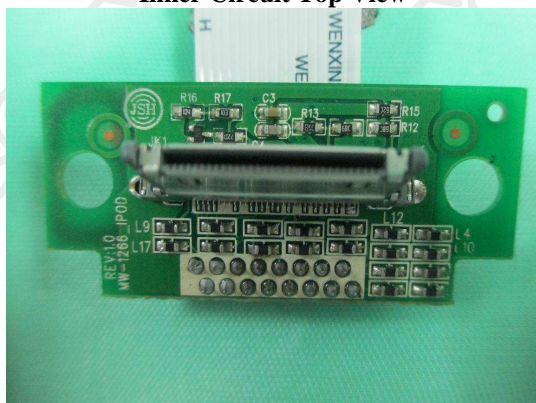
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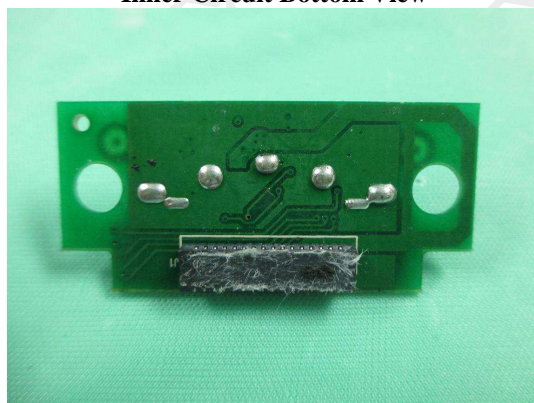
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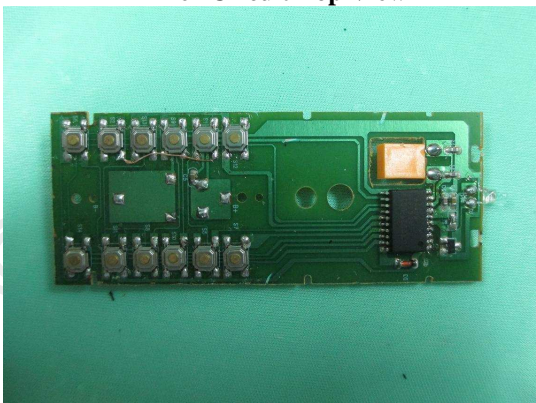
Inner Circuit Top View



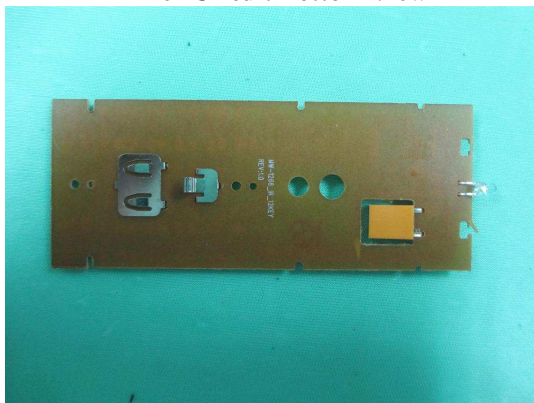
Inner Circuit Bottom View



Inner Circuit Top View



Inner Circuit Bottom View



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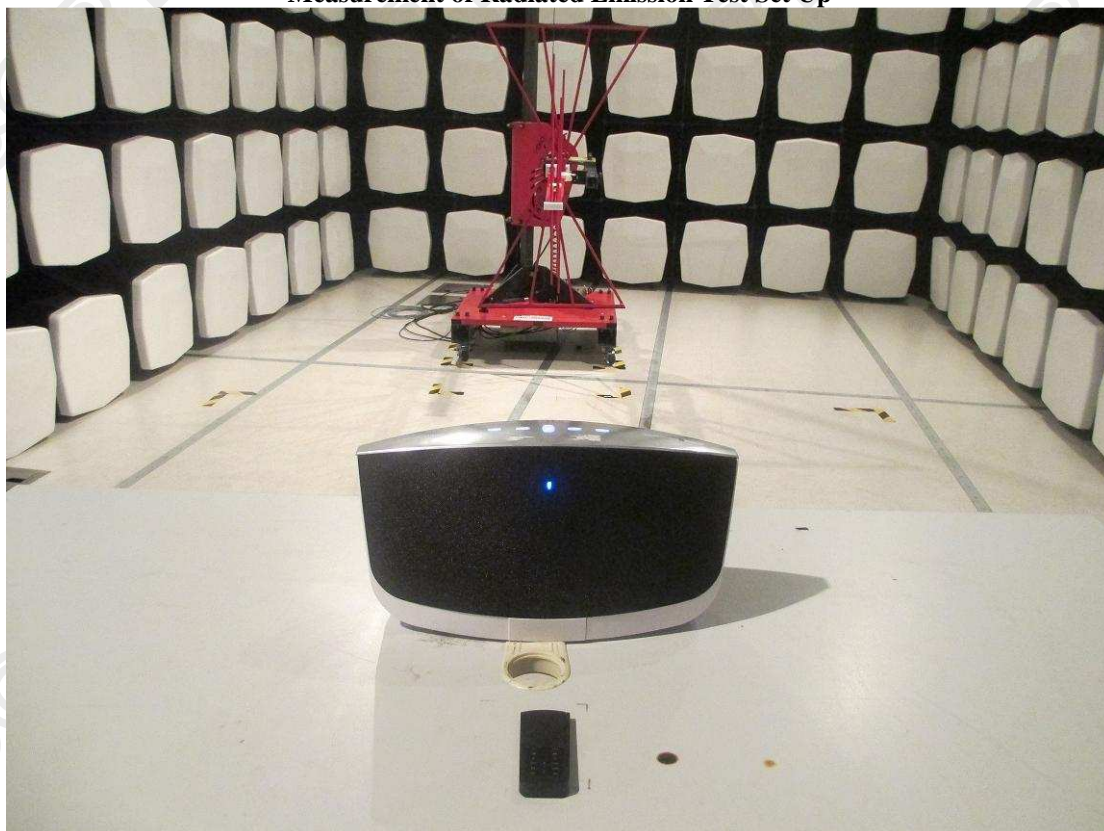
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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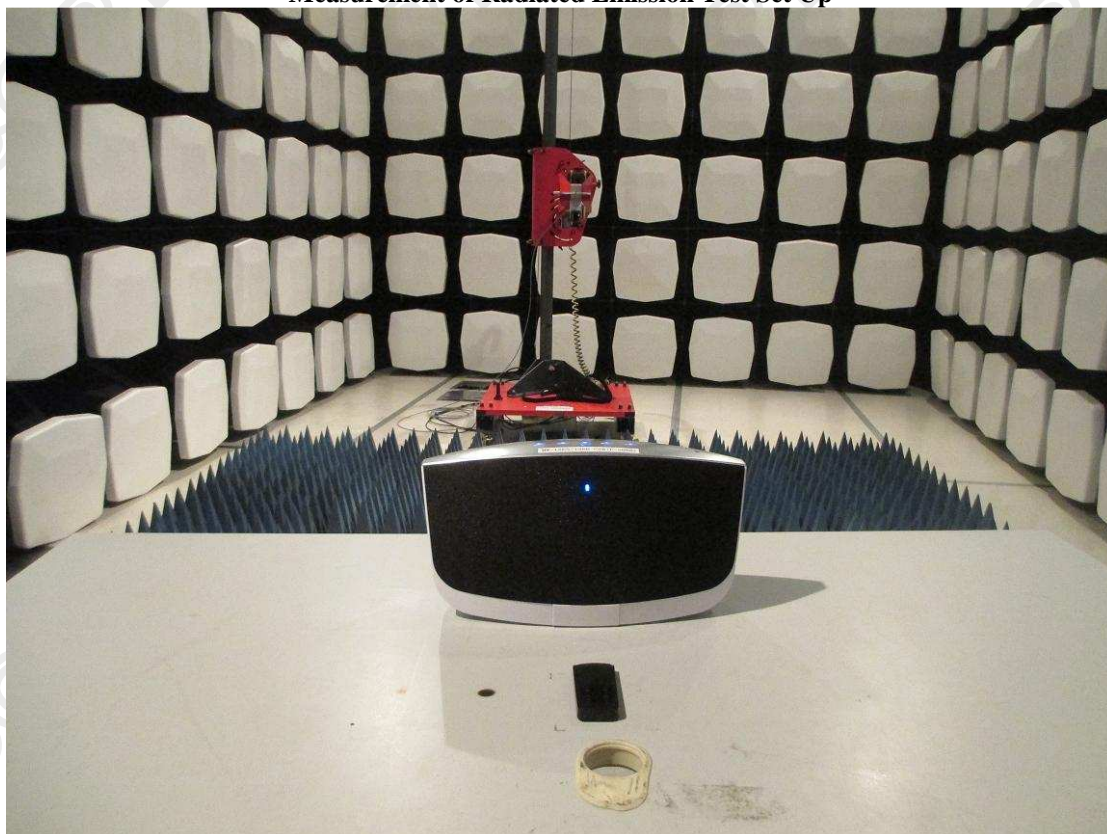
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Photographs of EUT

Measurement of Radiated Emission Test Set Up



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Measurement of Conducted Emission Test Set Up



******* End of Test Report *******

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