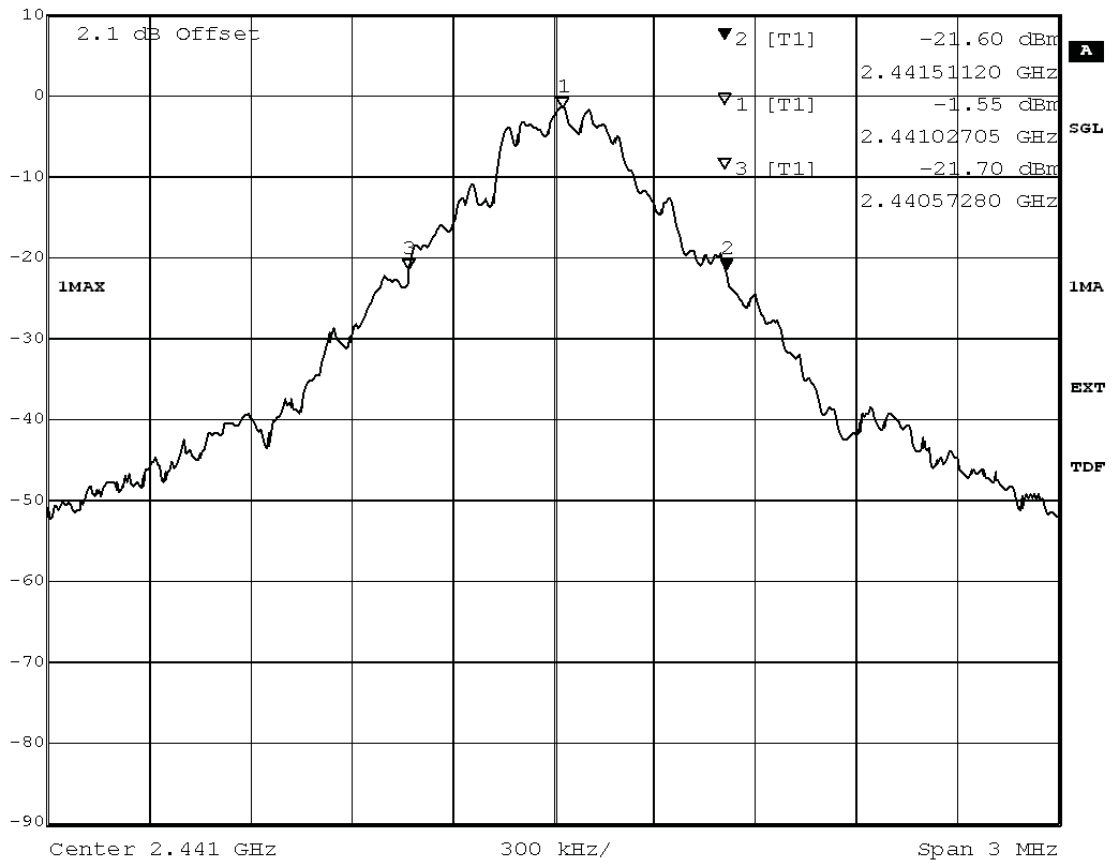


Detailed Results:

20 dB bandwidth MHz
0.938

added by operator

Marker 2 [T1]	RBW 30 kHz	RF Att 20 dB
Ref Lvl -21.60 dBm	VBW 30 kHz	
10 dBm	SWT 8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH M: 2441 MHz; 20dB bandwidth (kHz):938.4
 Date: 30.MAY.2012 09:41:51

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.3; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

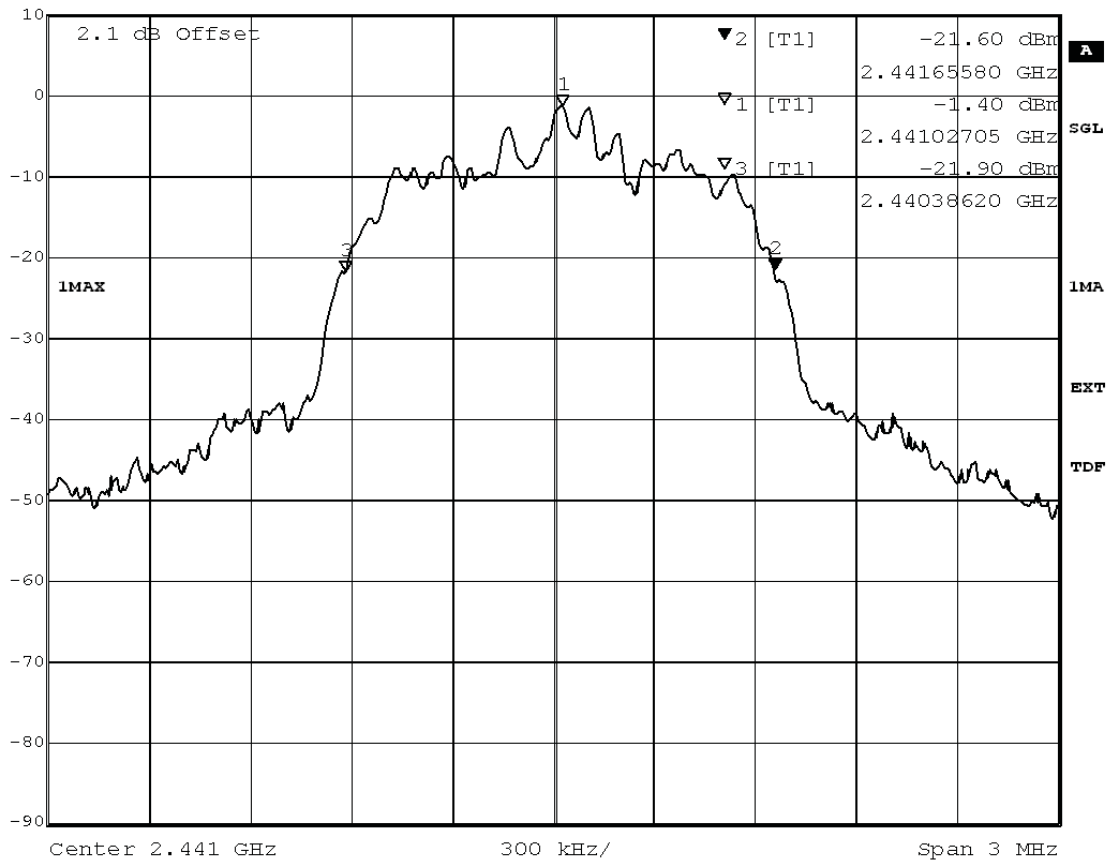
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:09
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

20 dB bandwidth MHz
1.270

added by operator

Marker 2 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-21.60 dBm	VBW	30 kHz	
10 dBm	2.44165580 GHz	SWT	8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH M: 2441 MHz; 20dB bandwidth (kHz):1269.6
 Date: 30.MAY.2012 10:50:02

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.3; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

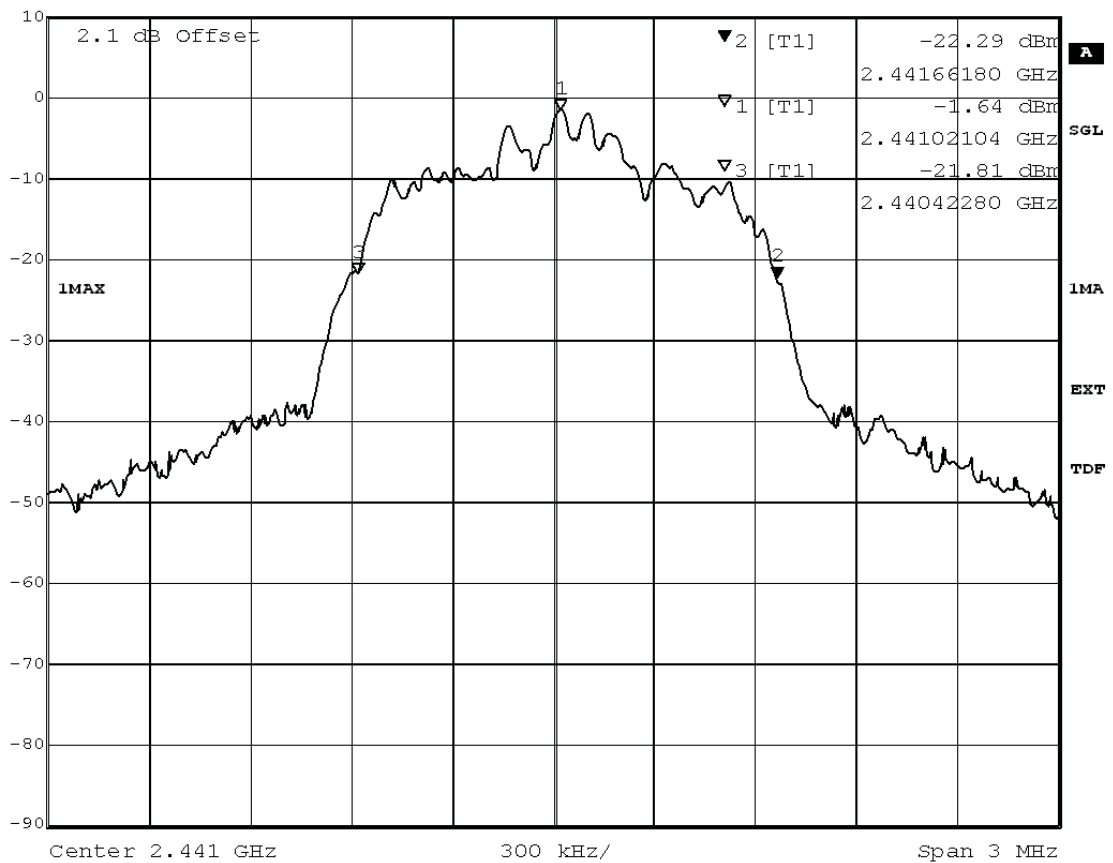
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:18
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

20 dB bandwidth MHz
1.239

added by operator

Marker 2 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-22.29 dBm	VBW	30 kHz	
10 dBm	2.44166180 GHz	SWT	8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH M: 2441 MHz; 20dB bandwidth (kHz):1239
 Date: 30.MAY.2012 11:56:19

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.3; Frequency = 2480, Mode = BT transmit using 1 Mbps with GFSK modulation

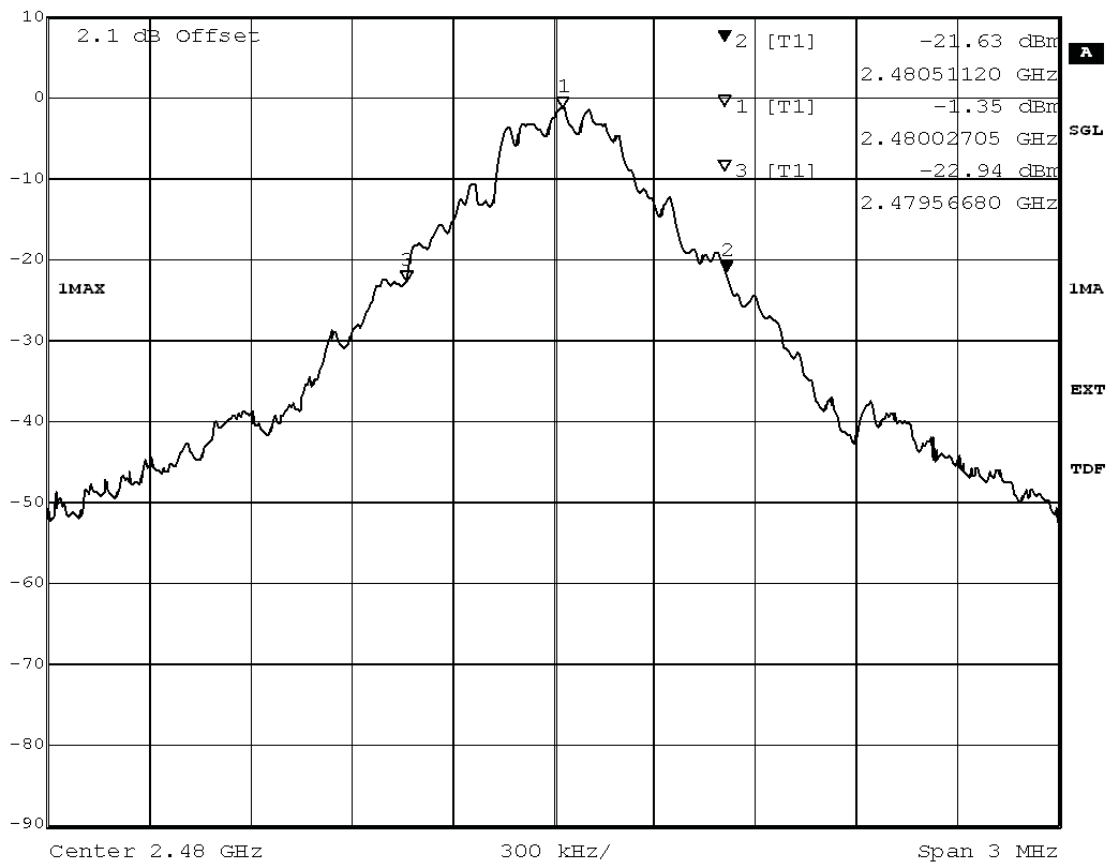
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 12:57
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

20 dB bandwidth MHz
0.944

added by operator

Marker 2 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-21.63 dBm	VBW	30 kHz	
10 dBm	2.48051120 GHz	SWT	8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH T: 2480 MHz; 20dB bandwidth (kHz):944.4
 Date: 30.MAY.2012 09:59:34

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.3; Frequency = 2480, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

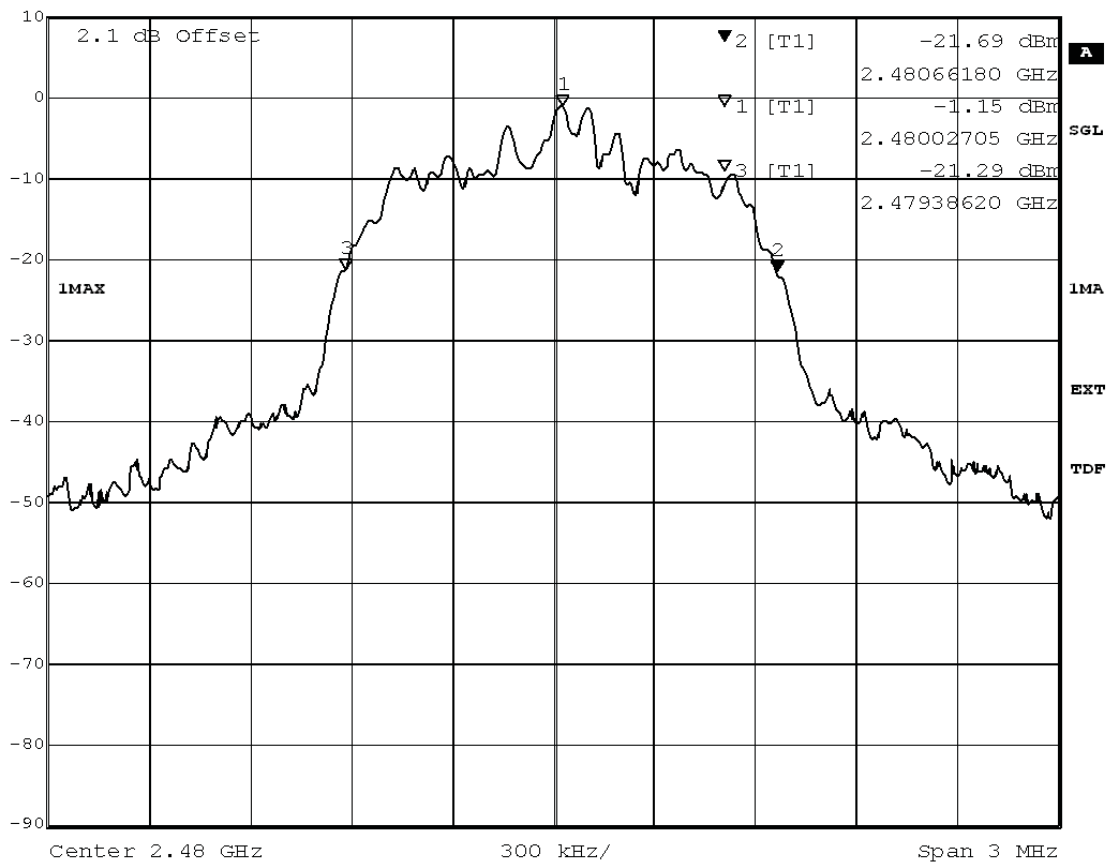
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:10
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

20 dB bandwidth MHz
1.276

added by operator

Marker 2 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-21.69 dBm	VBW	30 kHz	
10 dBm	2.48066180 GHz	SWT	8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH T: 2480 MHz; 20dB bandwidth (kHz):1275.6
 Date: 30.MAY.2012 11:07:04

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.3; Frequency = 2480, Mode = BT transmit using 3 Mbps with 8DPSK modulation

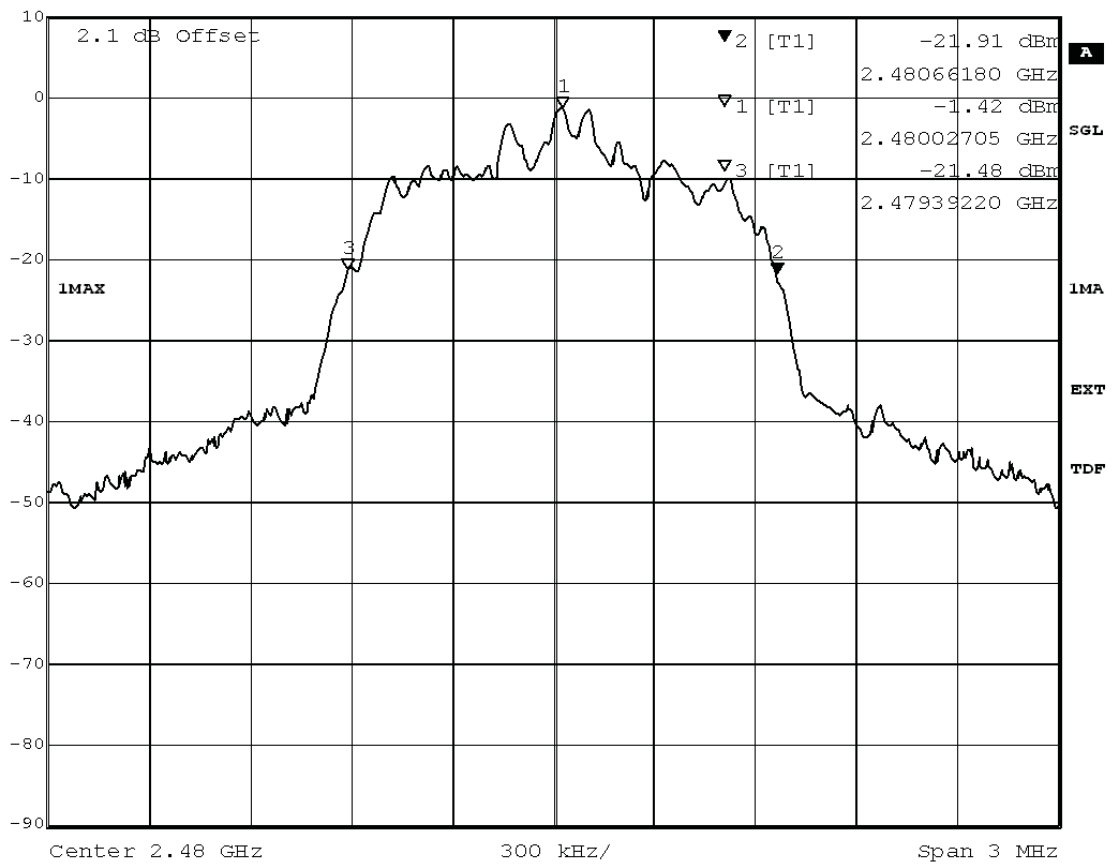
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:18
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

20 dB bandwidth MHz
1.270

added by operator

Marker 2 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-21.91 dBm	VBW	30 kHz	
10 dBm	2.48066180 GHz	SWT	8.5 ms	Unit dBm



Title: 20dB Bandwidth
 Comment A: CH T: 2480 MHz; 20dB bandwidth (kHz):1269.6
 Date: 30.MAY.2012 12:14:13

added by operator



3.5.4 15c.4 Peak power output §15.247 (b) (1)

Test: 15c.4; Frequency = 2402, Mode = BT transmit using 1 Mbps with GFSK modulation

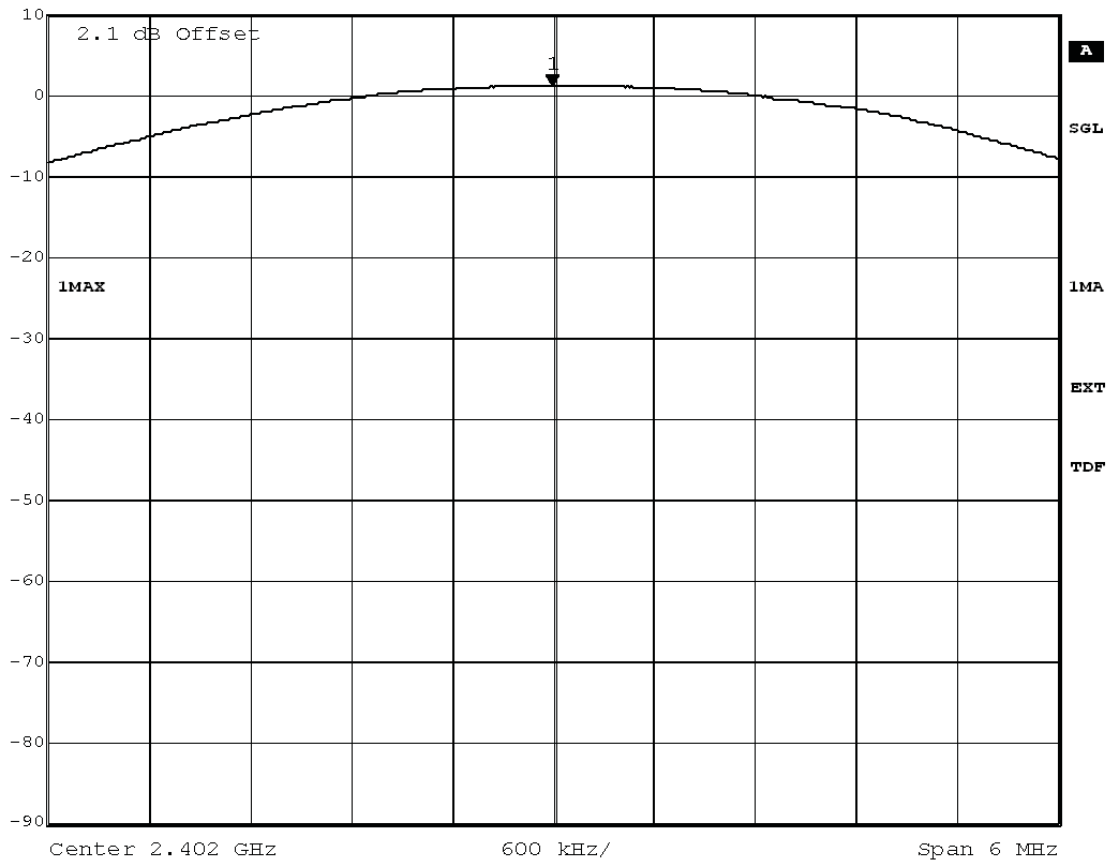
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 12:57
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
1.07	0.00	1.07

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 1.07 dBm VBW 3 MHz
 10 dBm 2.40199399 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 09:11:56

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2402, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

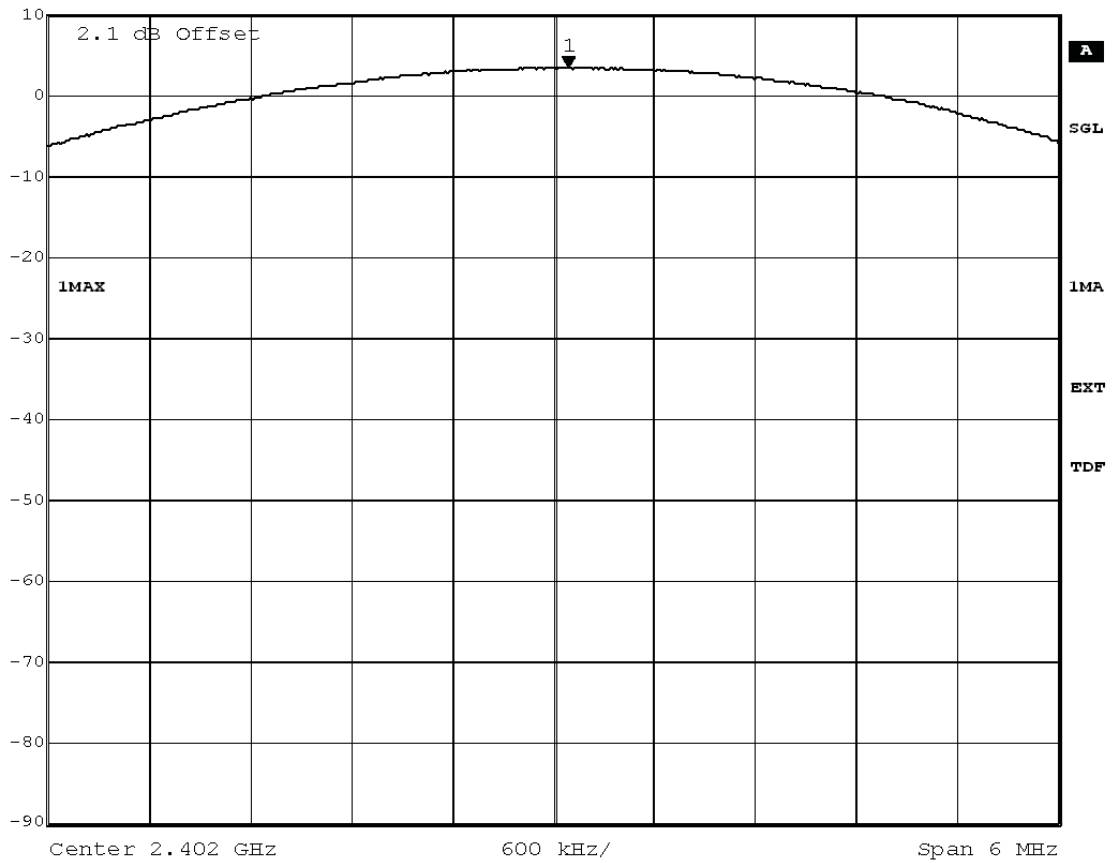
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:10
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.39	0.00	3.39

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.39 dBm VBW 3 MHz
 10 dBm 2.40209018 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 10:29:20

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2402, Mode = BT transmit using 3 Mbps with 8DPSK modulation

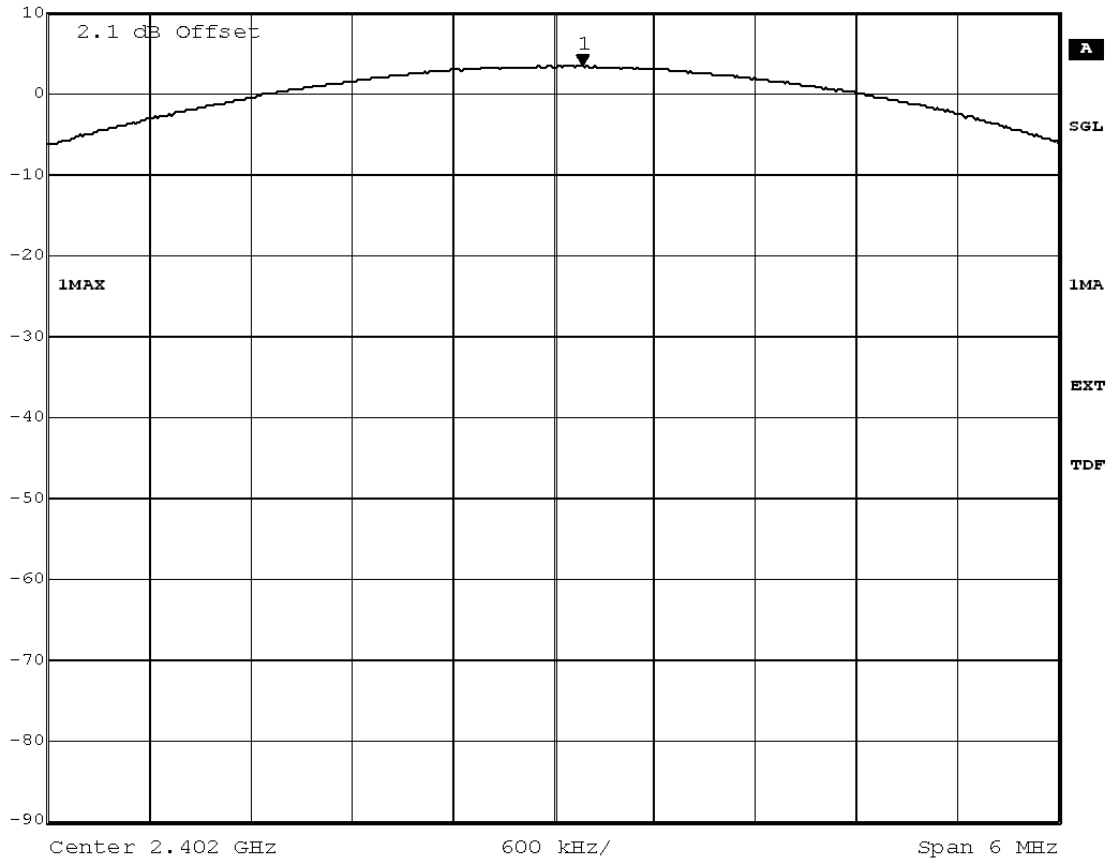
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:19
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.31	0.00	3.31

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.31 dBm VBW 3 MHz
 10 dBm 2.40217435 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 11:39:42

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2441, Mode = BT transmit using 1 Mbps with GFSK modulation

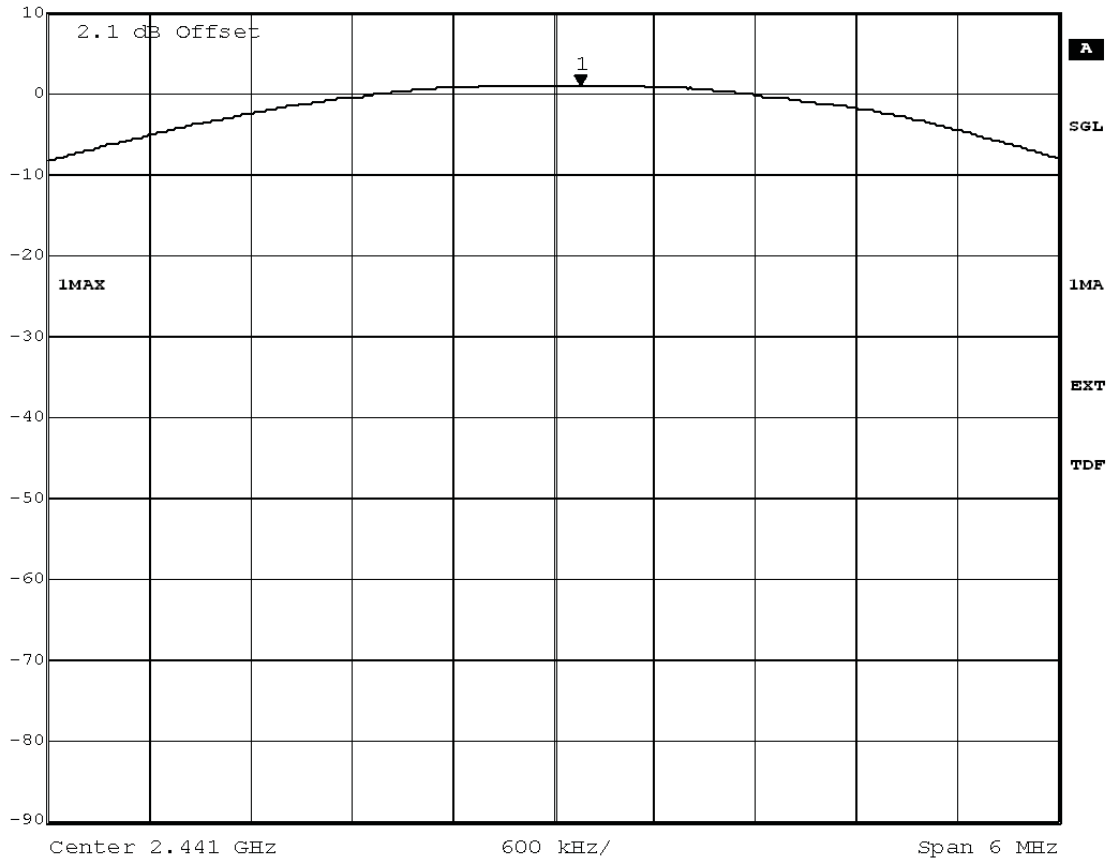
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 12:58
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
0.97	0.00	0.97

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 0.97 dBm VBW 3 MHz
 10 dBm 2.44116232 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 09:42:24

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

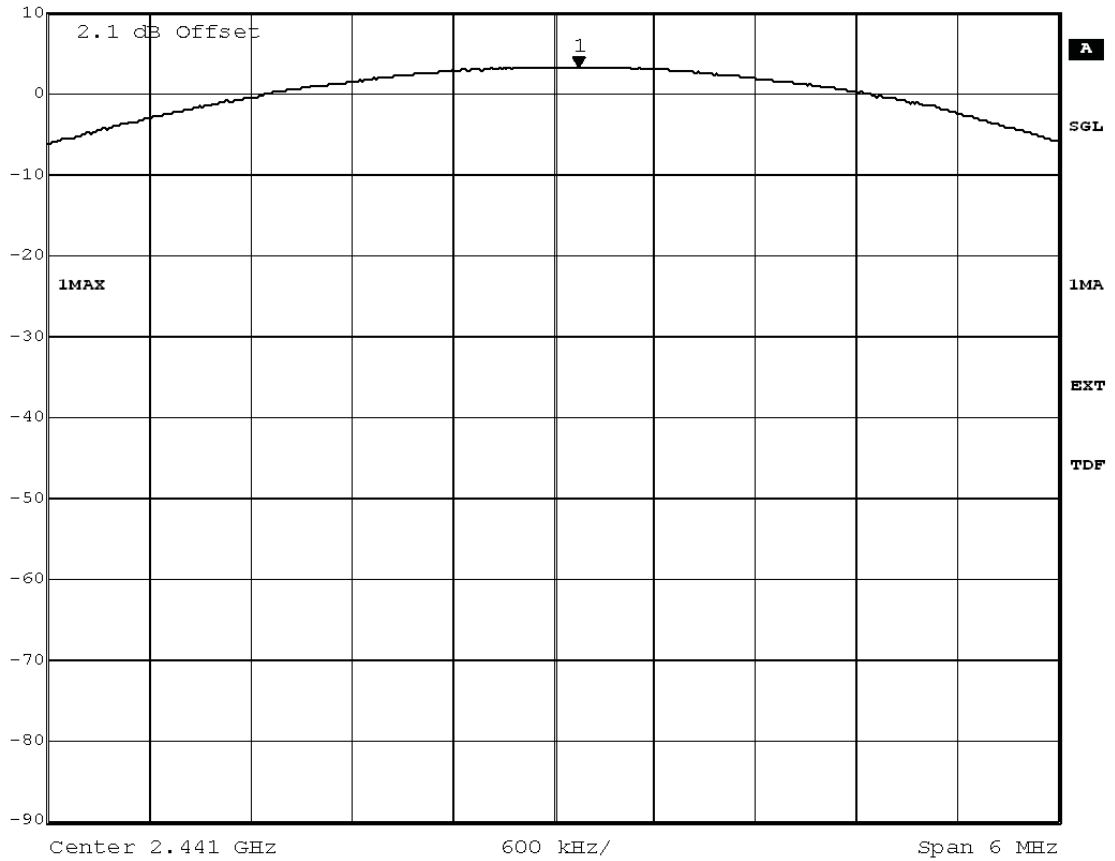
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:11
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.17	0.00	3.17

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.17 dBm VBW 3 MHz
 10 dBm 2.44115030 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 10:50:34

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

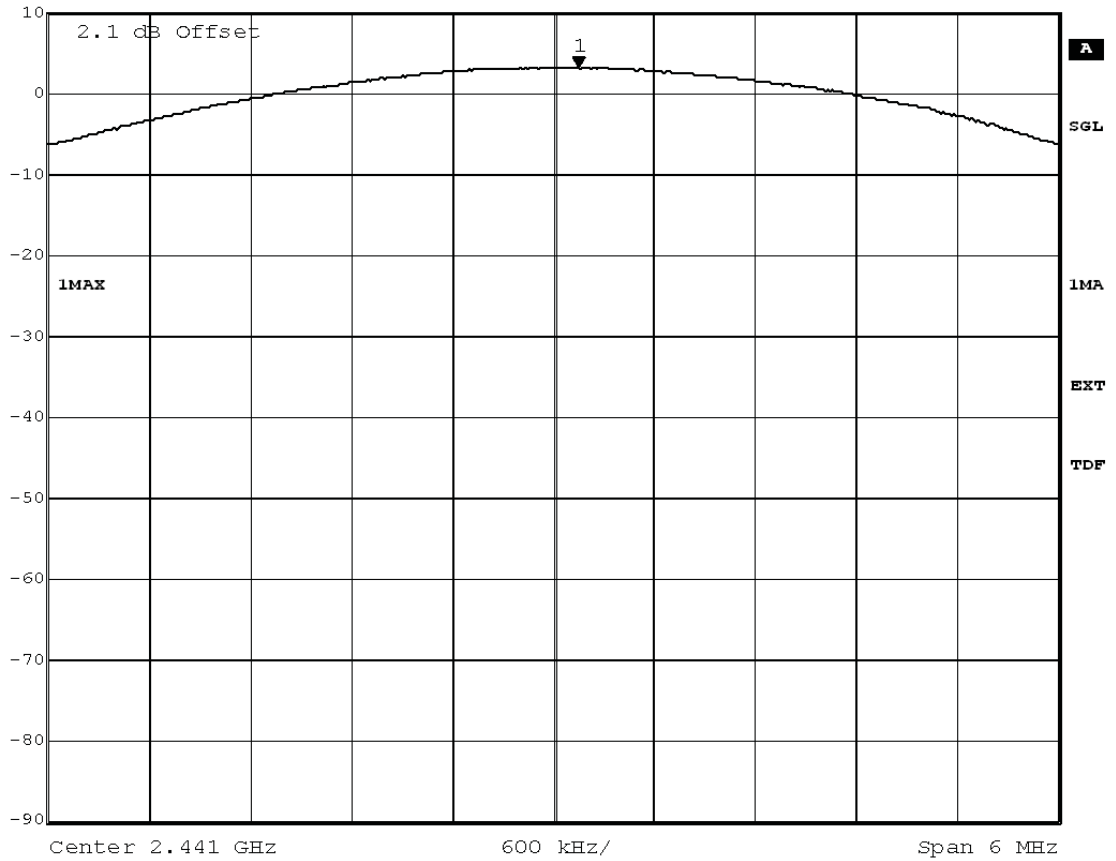
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:19
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.08	0.00	3.08

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.08 dBm VBW 3 MHz
 10 dBm 2.44115030 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 11:56:52

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2480, Mode = BT transmit using 1 Mbps with GFSK modulation

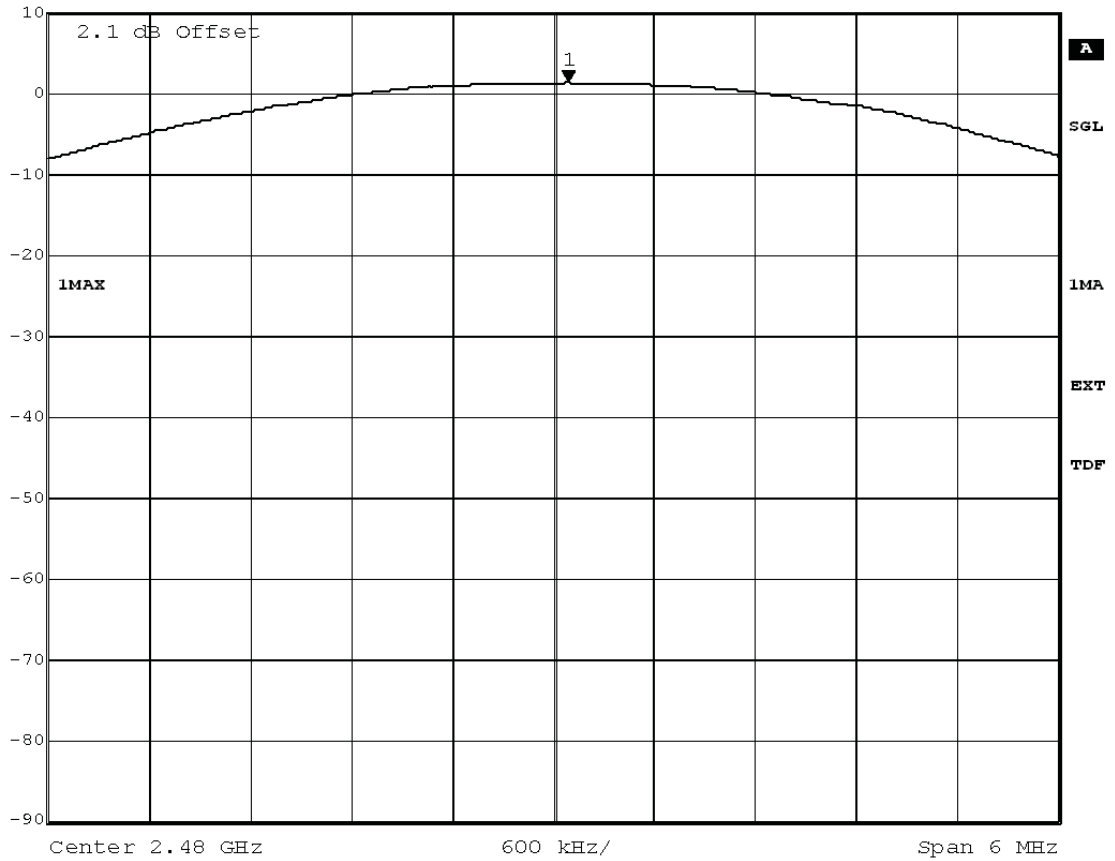
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 12:58
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
1.26	0.00	1.26

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 1.26 dBm VBW 3 MHz
 10 dBm 2.48009018 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 10:00:07

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2480, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

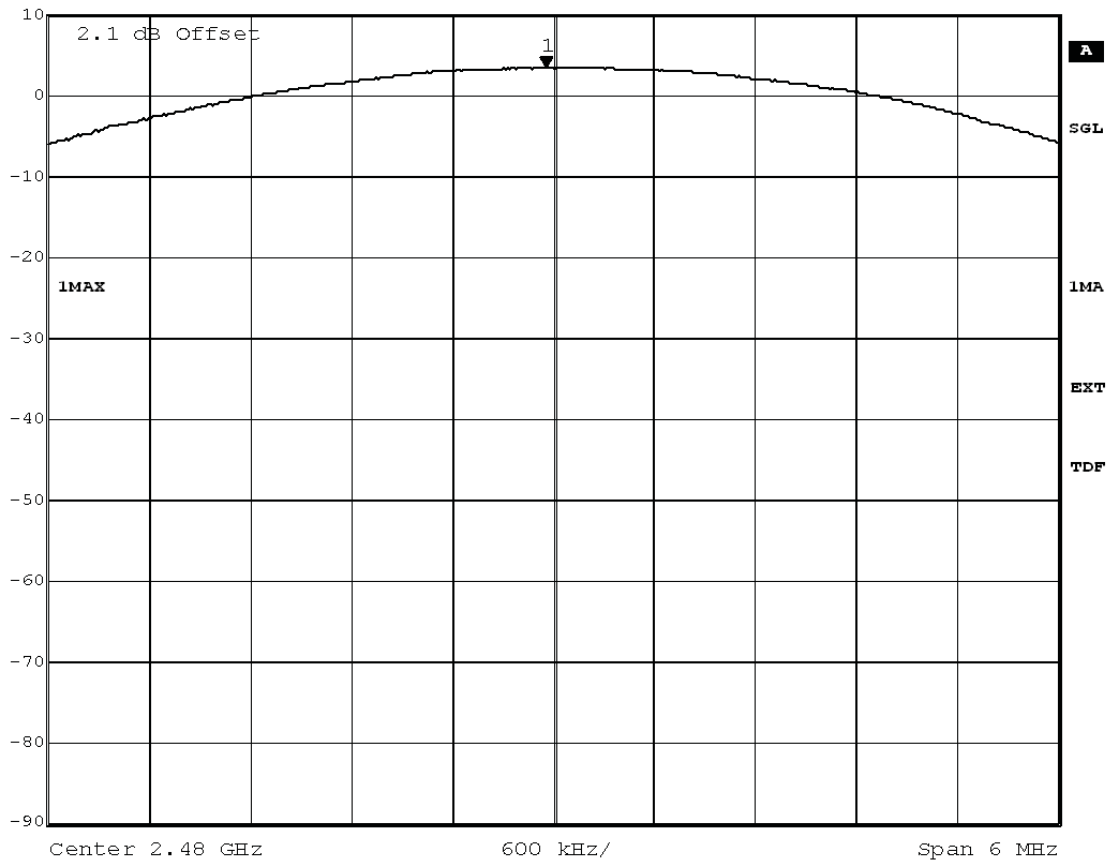
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:11
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.41	0.00	3.41

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.41 dBm VBW 3 MHz
 10 dBm 2.47995792 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 11:07:37

added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Test: 15c.4; Frequency = 2480, Mode = BT transmit using 3 Mbps with 8DPSK modulation

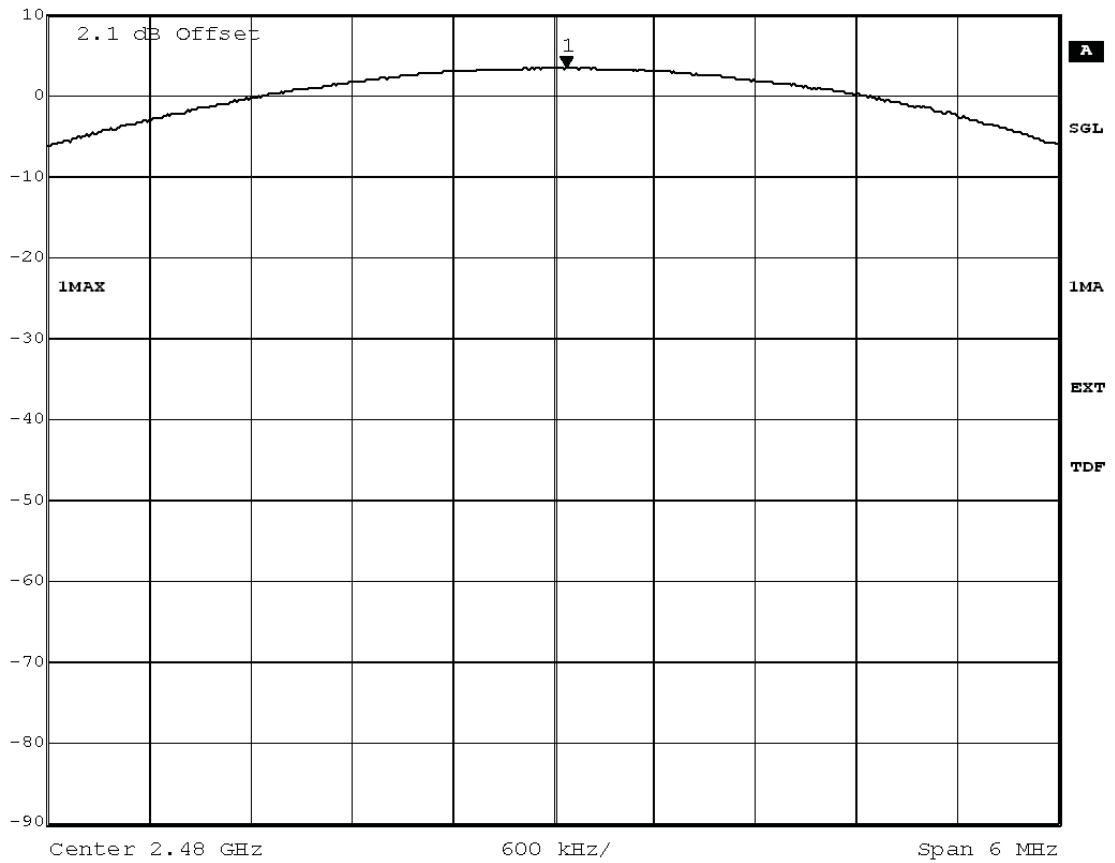
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:19
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

conducted peak output power value /dBm	Antenna gain / dBi	peak value EIRP /dBm
3.36	0.00	3.36

added by operator

Marker 1 [T1] RBW 3 MHz RF Att 20 dB
 Ref Lvl 3.36 dBm VBW 3 MHz
 10 dBm 2.48007816 GHz SWT 5 ms Unit dBm



Title: Peak outputpower Power
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 12:14:47

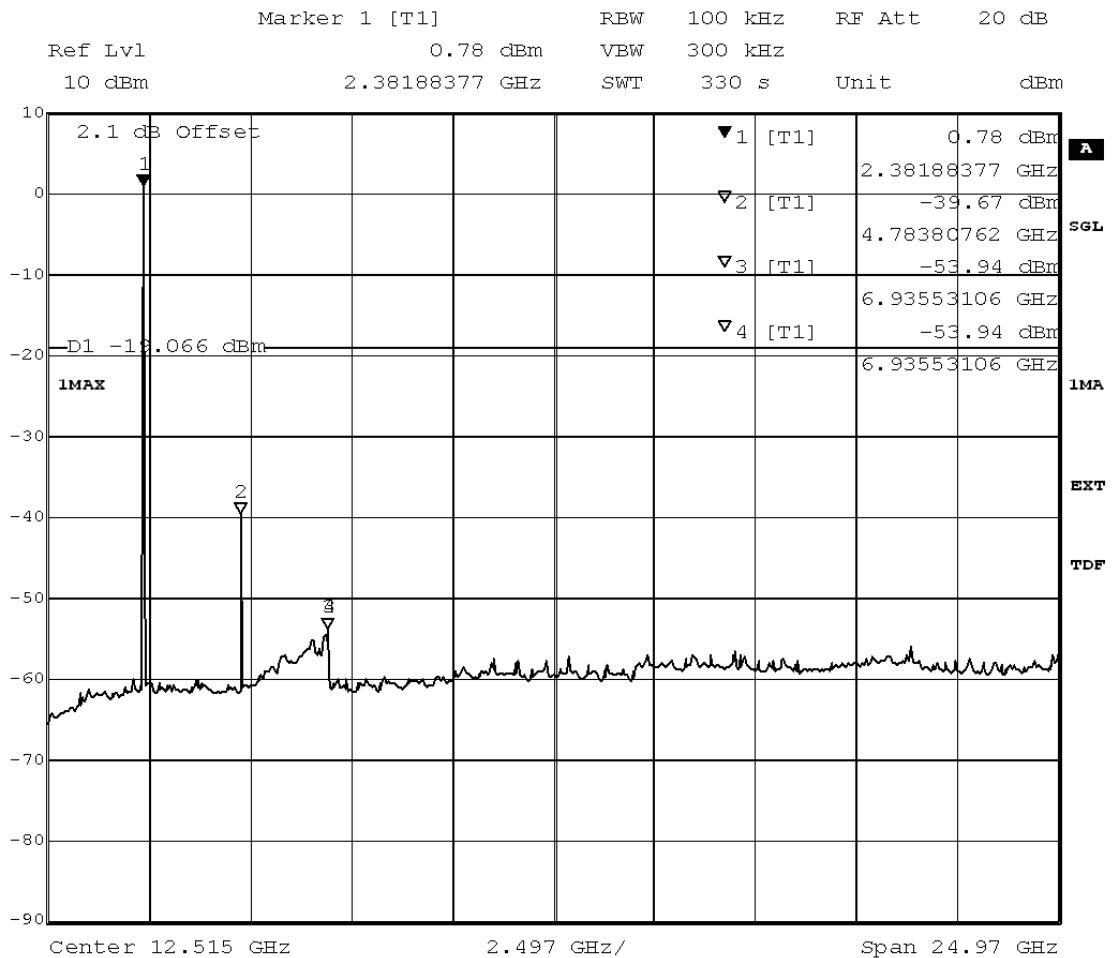
added by operator

3.5.5 15c.5 Spurious RF conducted emissions §15.247 (d)

Test: 15c.5; Frequency = 2402, Mode = BT transmit using 1 Mbps with GFSK modulation

Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 12:58
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:



Title: spurious emissions
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 09:07:57

added by operator

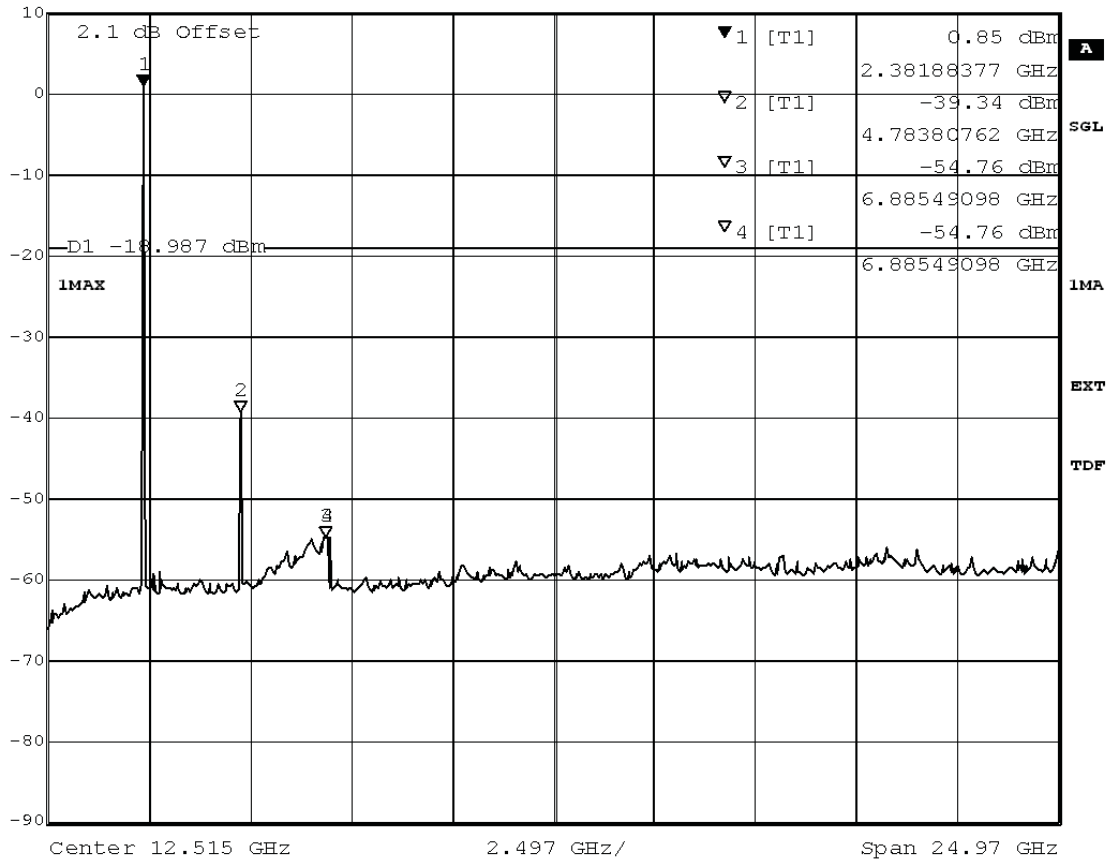


Test: 15c.5; Frequency = 2402, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:12
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:

Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.85 dBm	VBW	300 kHz	
10 dBm	2.38188377 GHz	SWT	330 s	Unit dBm



Title: spurious emissions
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 10:25:38

added by operator

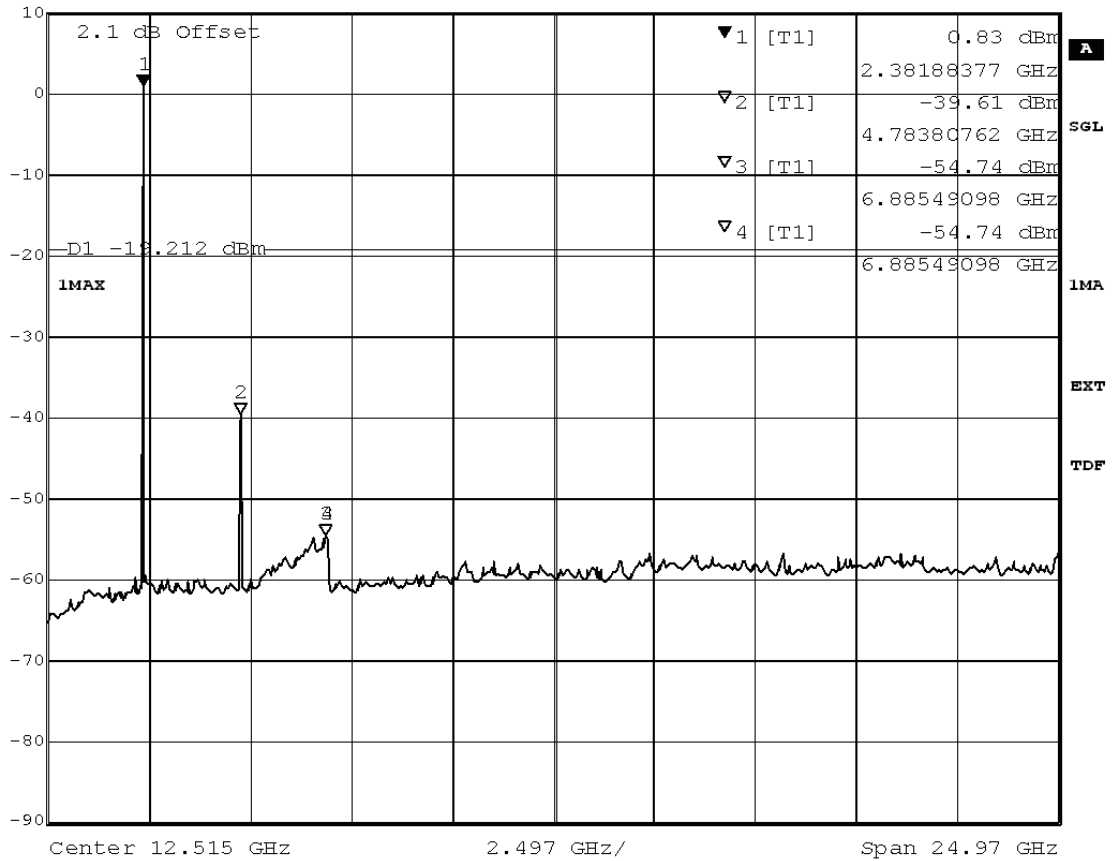
Test: 15c.5; Frequency = 2402, Mode = BT transmit using 3 Mbps with 8DPSK modulation

Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:20
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15



Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.83 dBm	VBW	300 kHz		
10 dBm	2.38188377 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 11:35:59
 added by operator

Test: 15c.5; Frequency = 2441, Mode = BT transmit using 1 Mbps with GFSK modulation

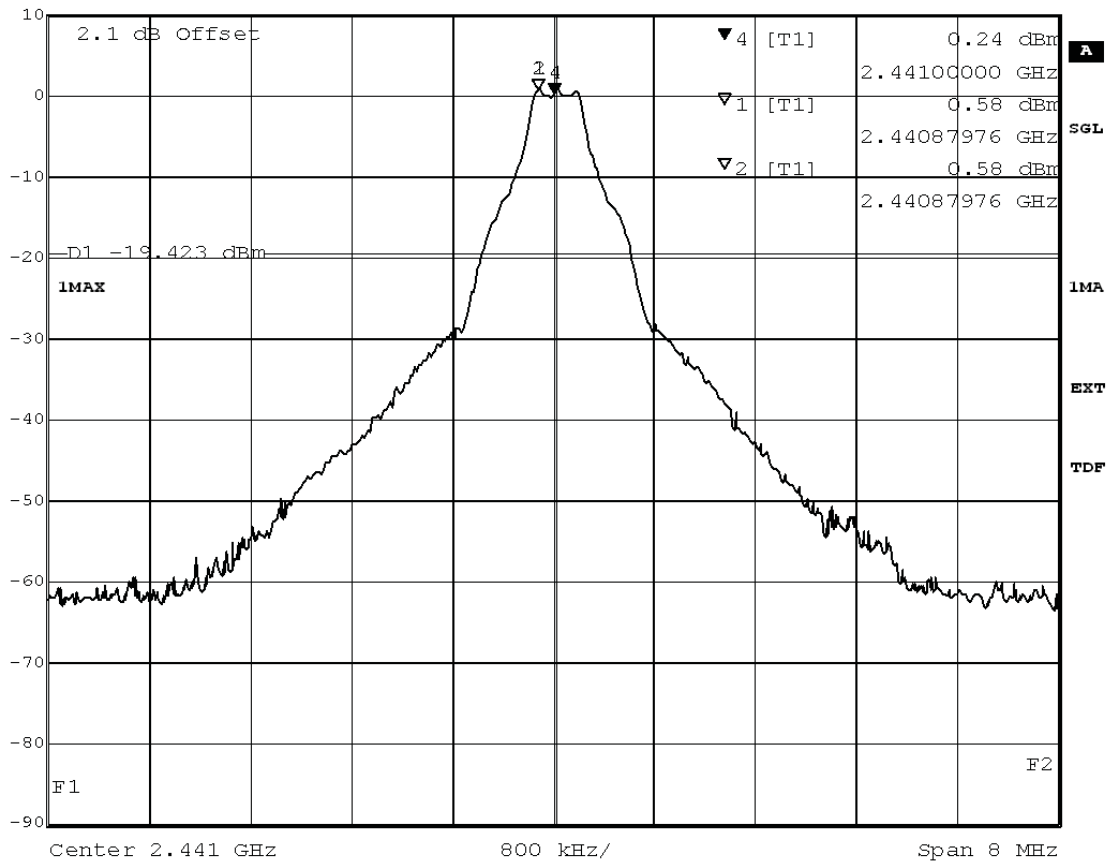
Result:	Passed
Setup No.:	S01_N01
Date of Test:	2012/05/30 13:01
Body:	FCC47CFRChPART15c247RADIO FREQUENCY DEVICES
Test Specification:	FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2441	0.24	0.58	-19.42	-19.66

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.24 dBm VBW 300 kHz
 10 dBm 2.44100000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 09:26:36

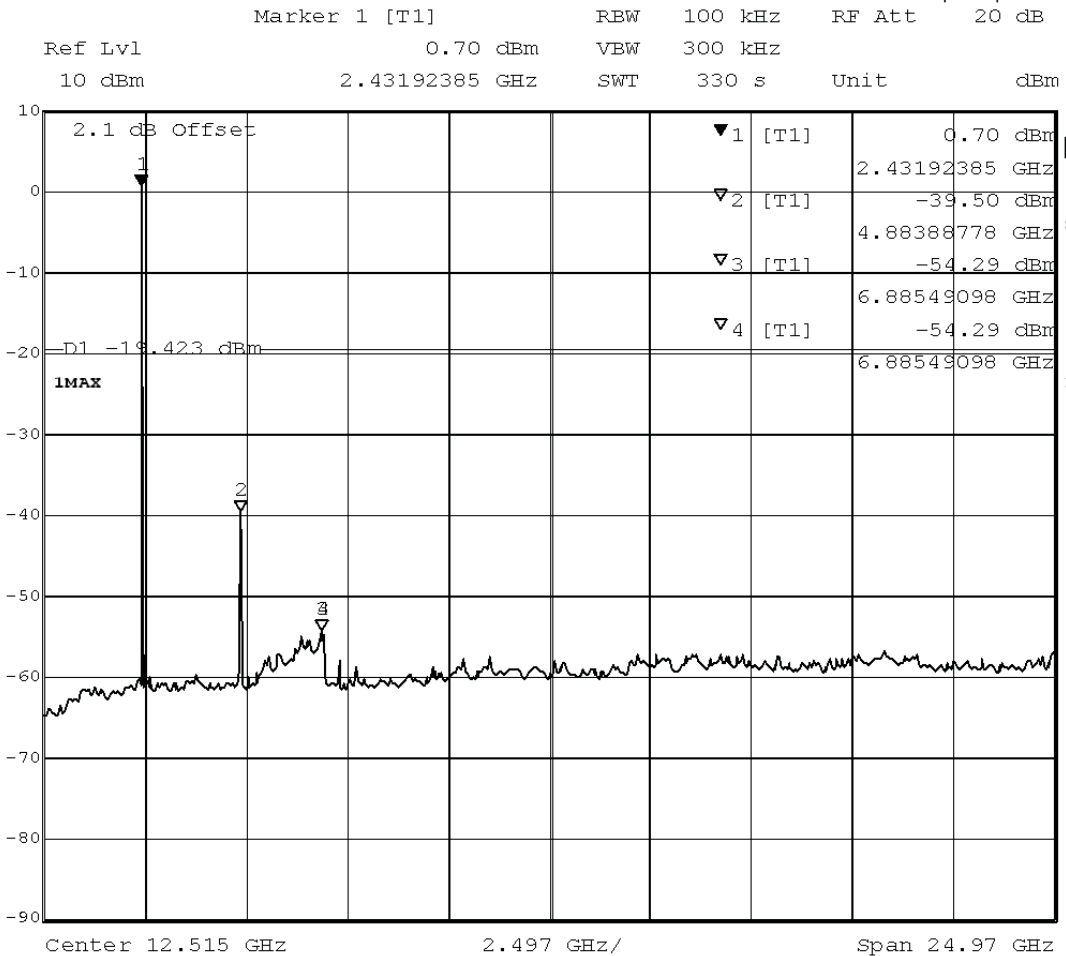
added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa

According to

Title 47 CFR chapter I part 15 subpart C



Title: spurious emissions
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 09:38:33

added by operator

Test: 15c.5; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

Result: Passed

Setup No.: S01_N01

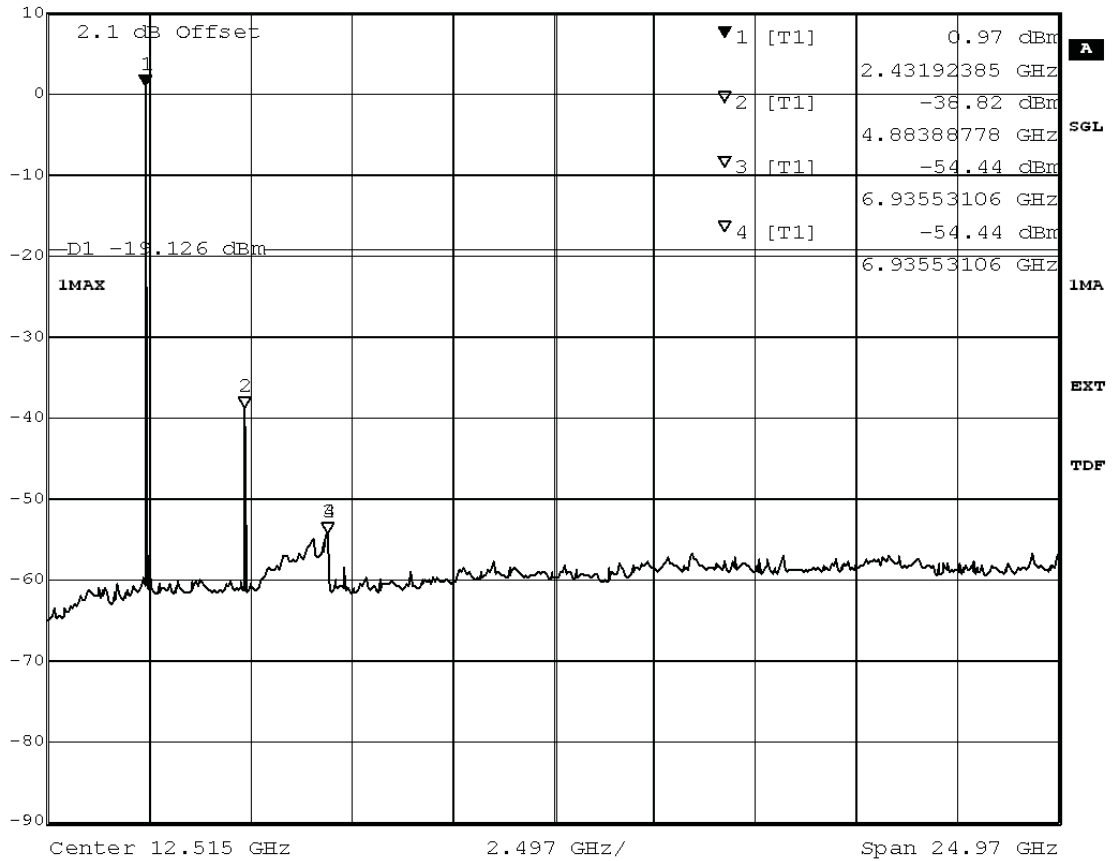
Date of Test: 2012/05/30 13:12

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.97 dBm	VBW	300 kHz		
10 dBm	2.43192385 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 10:47:01
 added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa

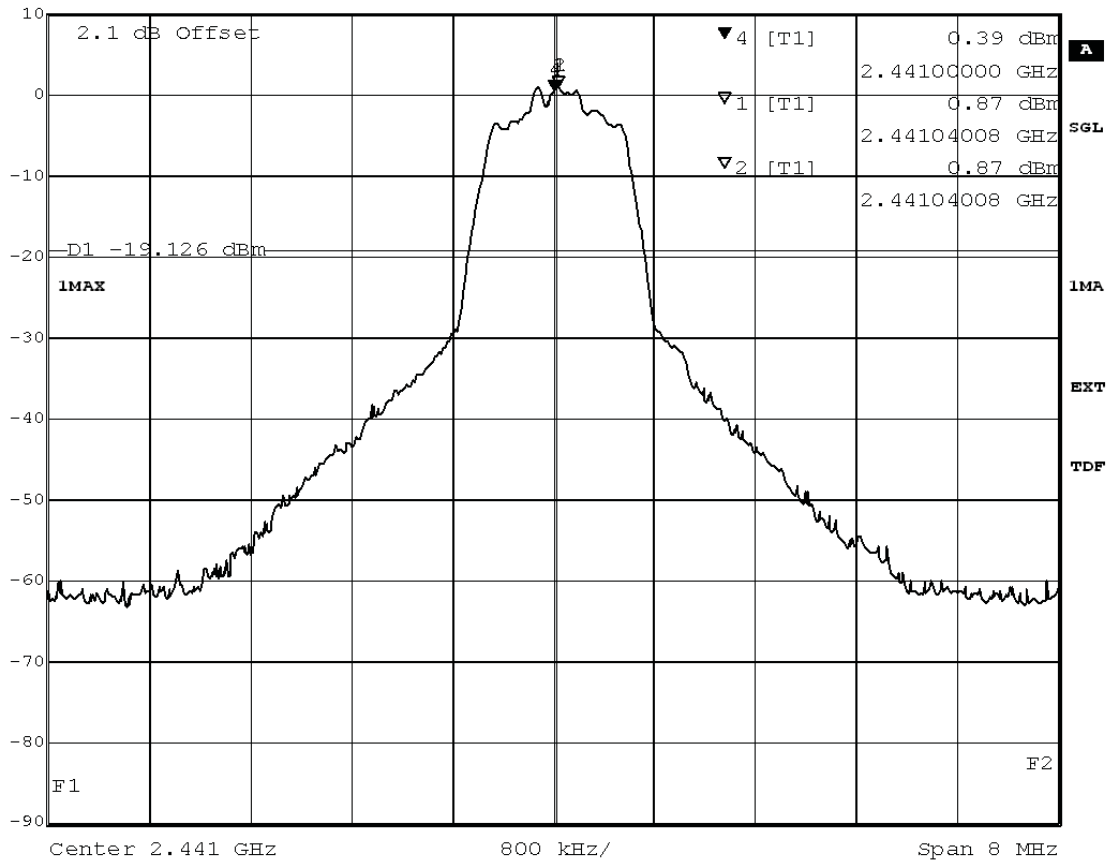
According to

Title 47 CFR chapter I part 15 subpart C

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2441	0.39	0.87	-19.13	-19.52

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.39 dBm VBW 300 kHz
 10 dBm 2.44100000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 10:35:05

added by operator

Test: 15c.5; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

Result: Passed

Setup No.: S01_N01

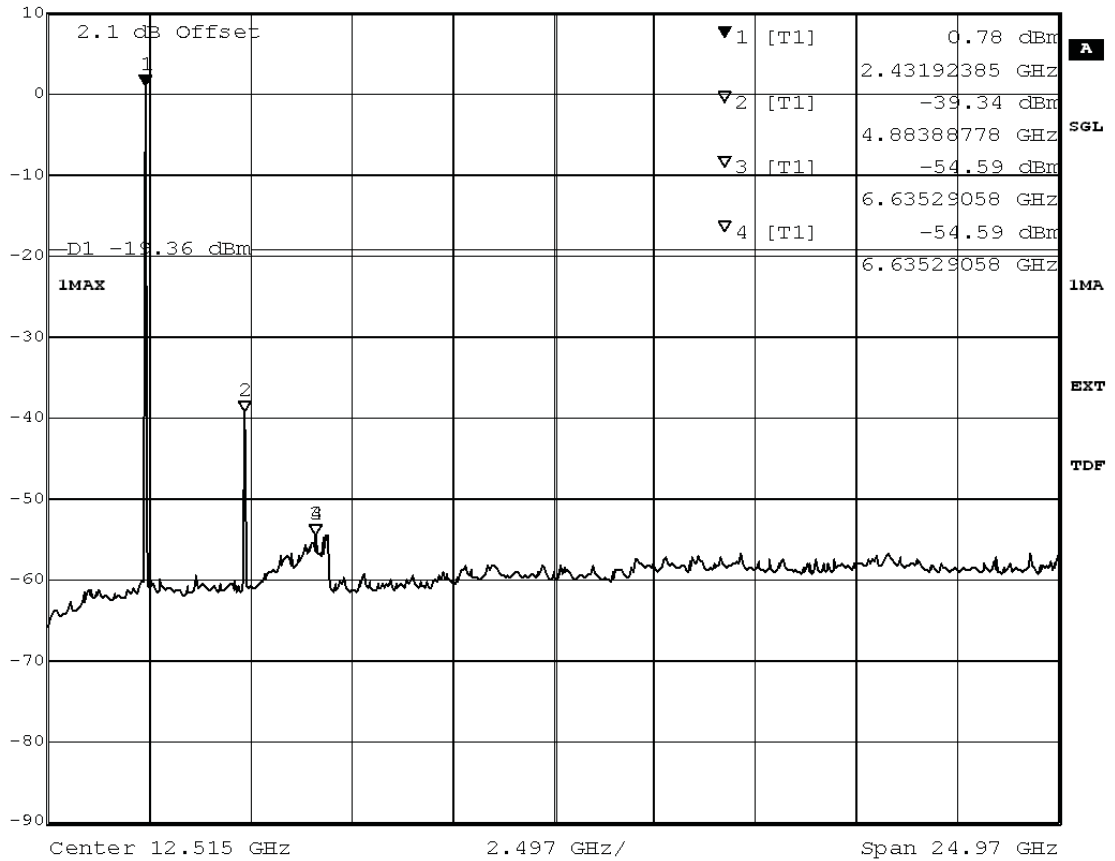
Date of Test: 2012/05/30 13:20

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.78 dBm	VBW	300 kHz		
10 dBm	2.43192385 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 11:53:15
 added by operator

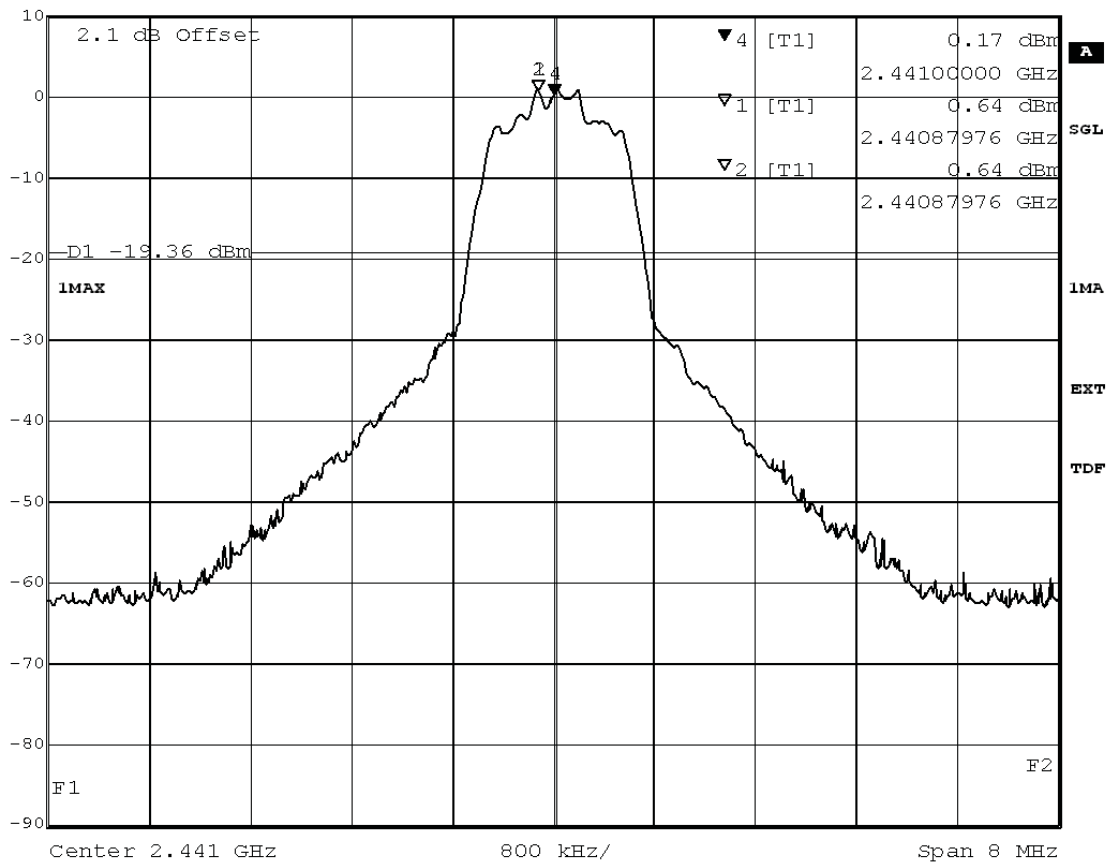


Reference: ODE_MJP_KYOCE_1207_FCCa
 According to
 Title 47 CFR chapter I part 15 subpart C

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2441	0.17	0.64	-19.36	-19.53

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.17 dBm VBW 300 kHz
 10 dBm 2.44100000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 11:41:18

added by operator

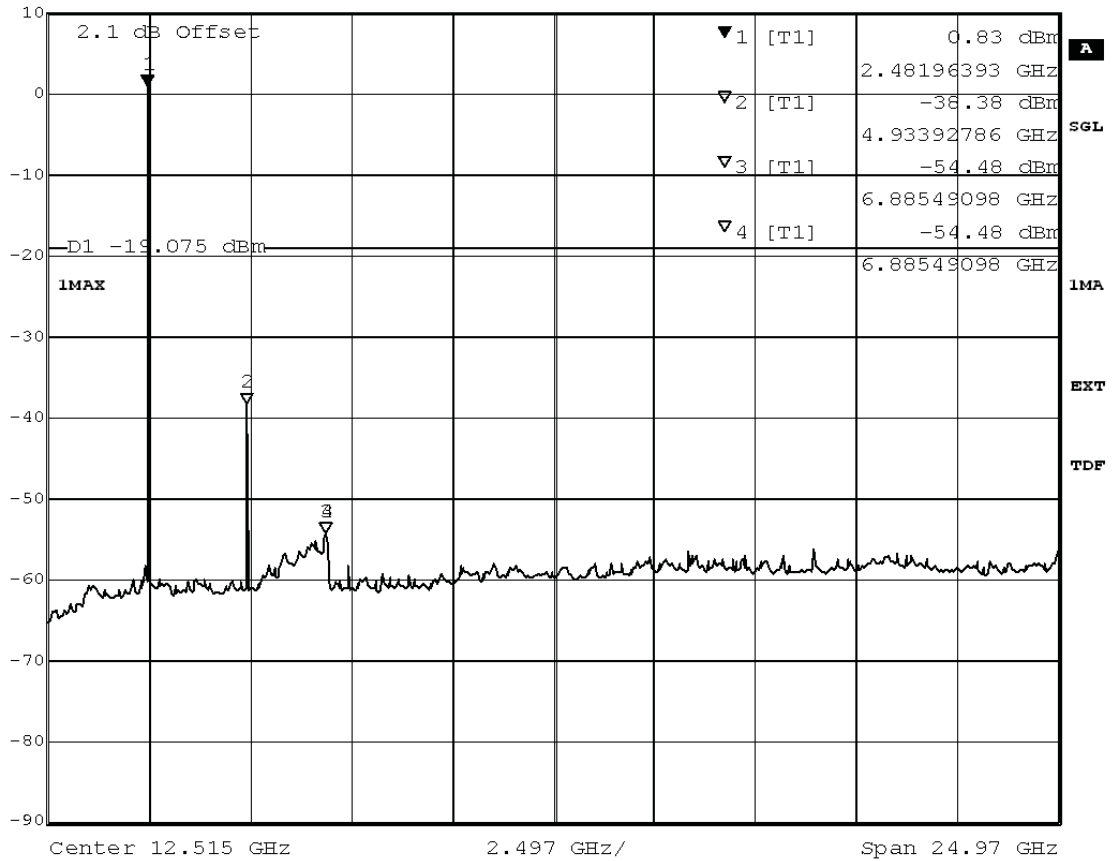
Test: 15c.5; Frequency = 2480, Mode = BT transmit using 1 Mbps with GFSK modulation

Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:02
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15



Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.83 dBm	VBW	300 kHz		
10 dBm	2.48196393 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 09:56:09

added by operator

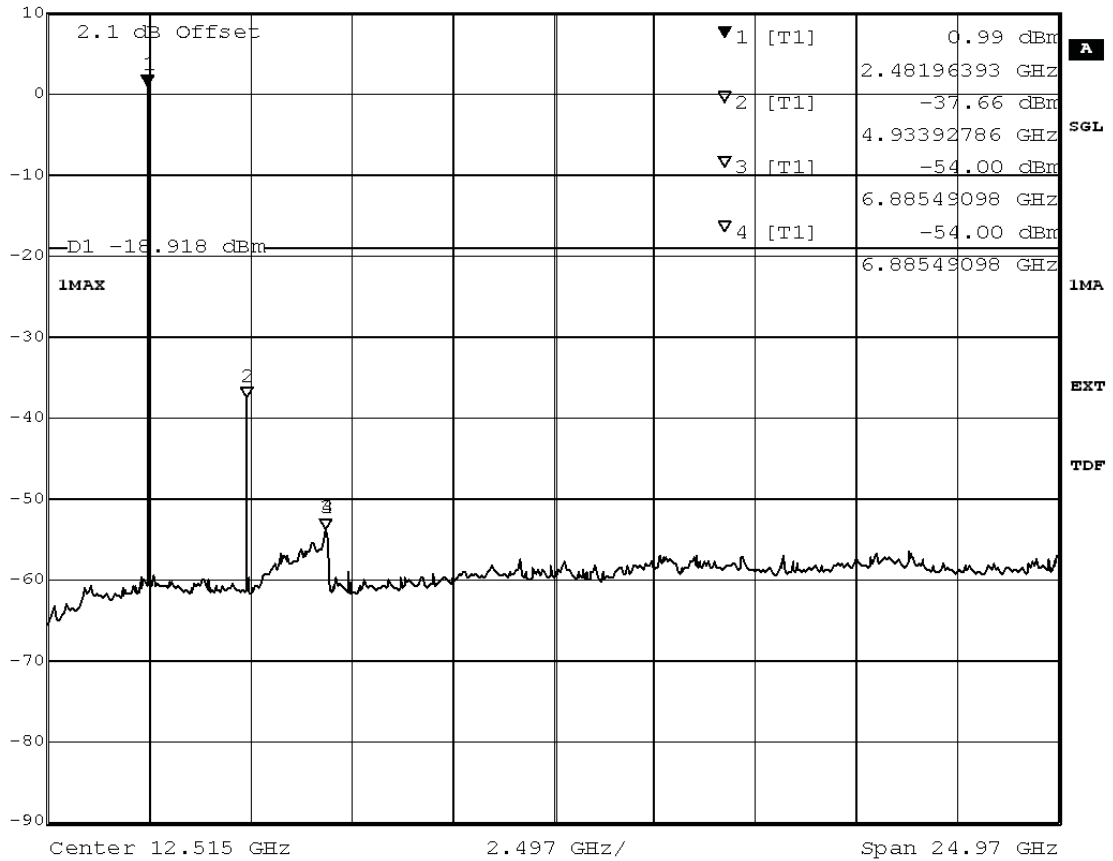
Test: 15c.5; Frequency = 2480, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

Result:	Passed
Setup No.:	S01_N01
Date of Test:	2012/05/30 13:13
Body:	FCC47CFRChPART15c247RADIO FREQUENCY DEVICES
Test Specification:	FCC part 2 and 15



Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.99 dBm	VBW	300 kHz		
10 dBm	2.48196393 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 11:03:59

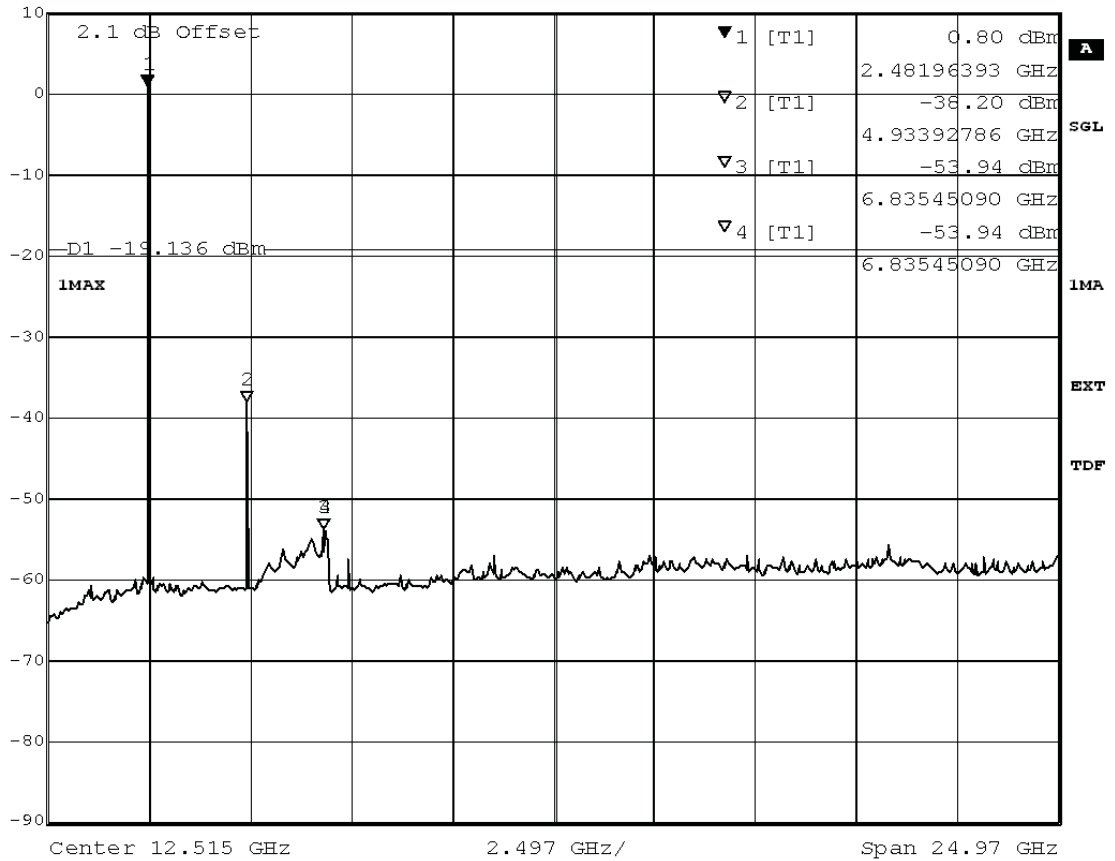
added by operator

Test: 15c.5; Frequency = 2480, Mode = BT transmit using 3 Mbps with 8DPSK modulation

Result:	Passed
Setup No.:	S01_N01
Date of Test:	2012/05/30 13:20
Body:	FCC47CFRChPART15c247RADIO FREQUENCY DEVICES
Test Specification:	FCC part 2 and 15

Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.80 dBm	VBW	300 kHz		
10 dBm	2.48196393 GHz	SWT	330 s	Unit	dBm



Title: spurious emissions
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 12:11:06
 added by operator



3.5.6 15c.6 Band edge compliance §15.247 (d)

Test: 15c.6; Frequency = 2402, Mode = BT transmit using 1 Mbps with GFSK modulation, Method = conducted

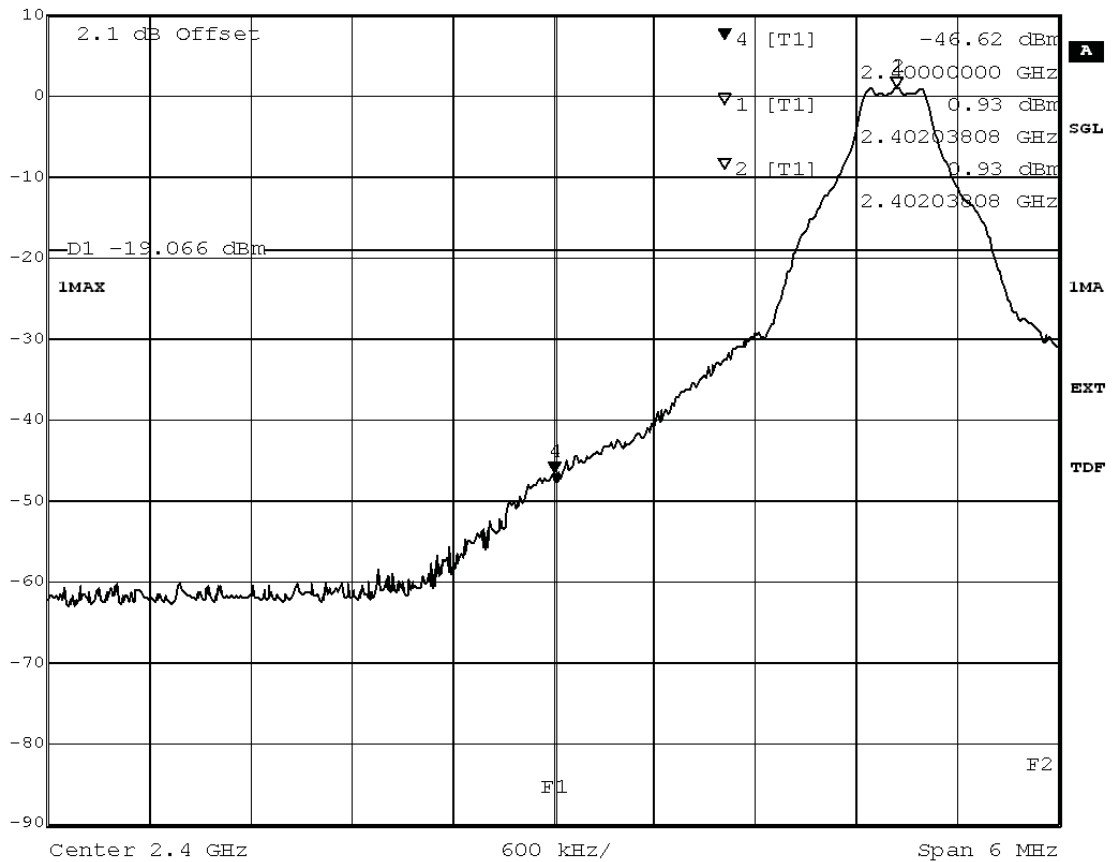
<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:02
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2400	-46.62	0.93	-19.07	27.55

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -46.62 dBm VBW 300 kHz
 10 dBm 2.40000000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 08:55:59

added by operator

Test: 15c.6; Frequency = 2402, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation, Method = conducted

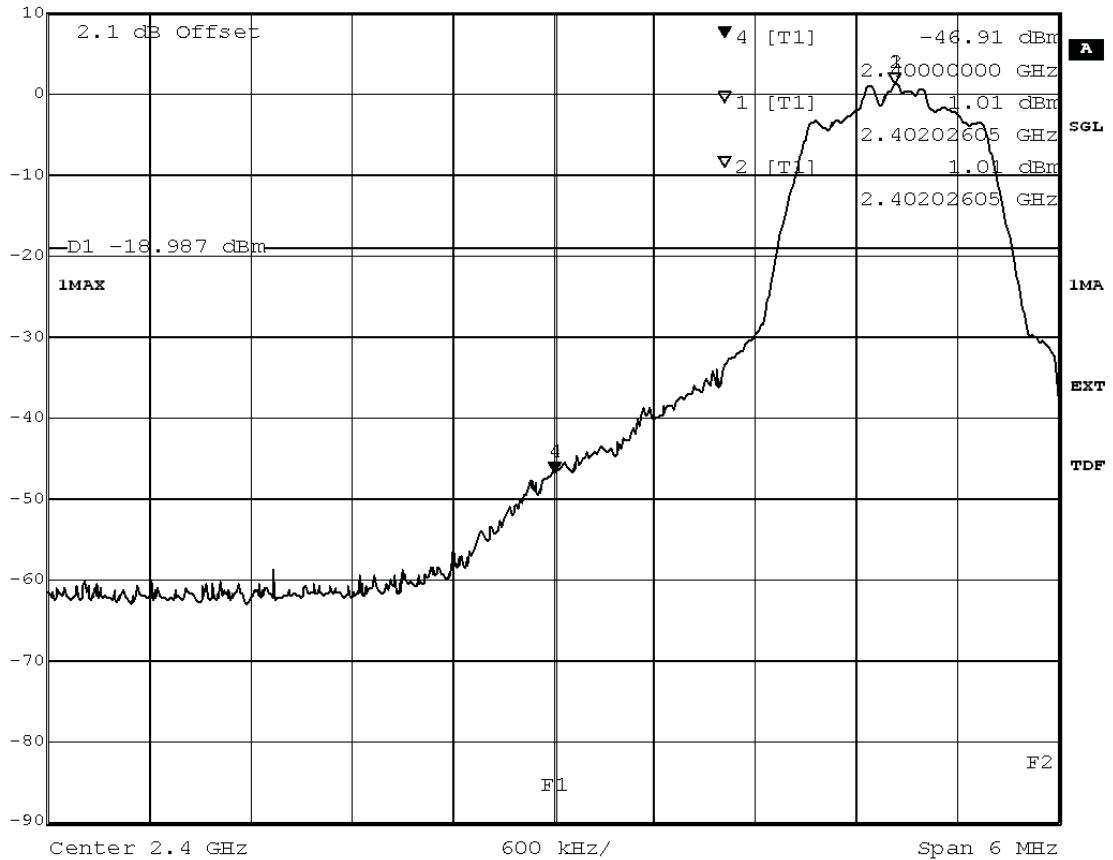
Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:13
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2400	-46.91	1.01	-18.99	27.93

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -46.91 dBm VBW 300 kHz
 10 dBm 2.40000000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 10:13:42

added by operator

Test: 15c.6; Frequency = 2402, Mode = BT transmit using 3 Mbps with 8DPSK modulation, Method = conducted

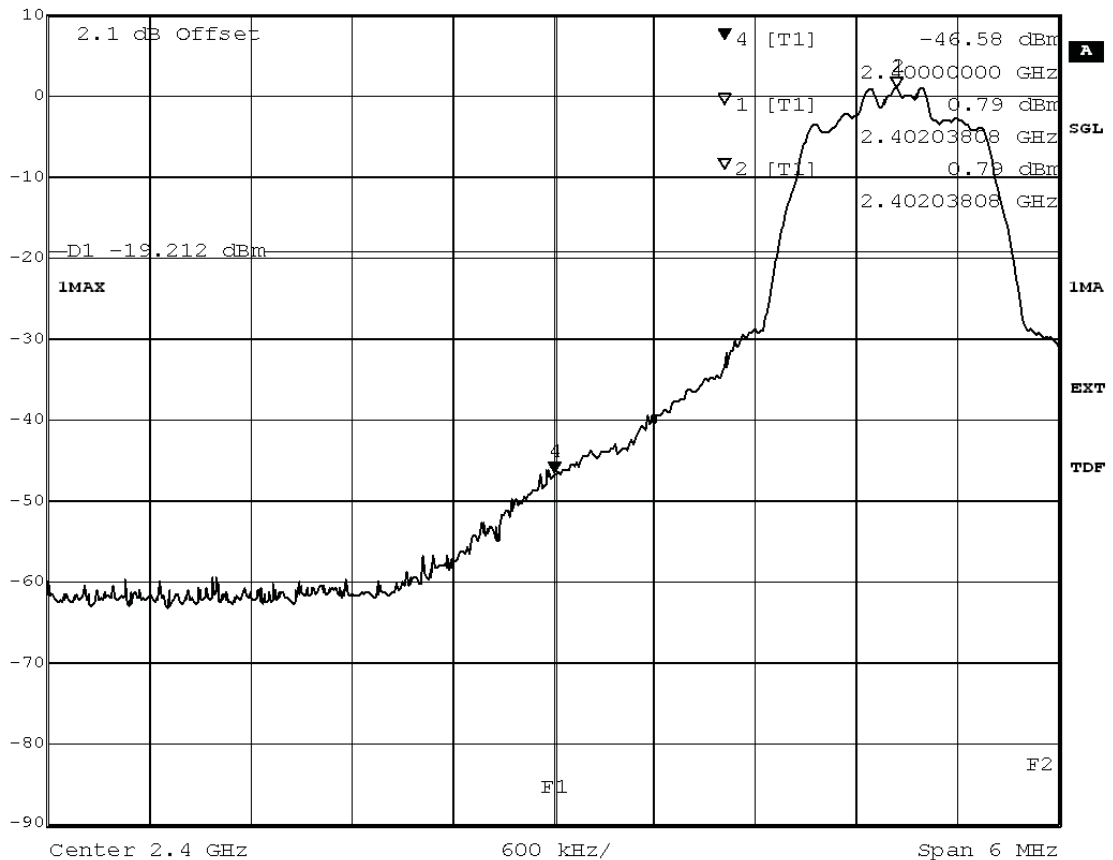
Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:21
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2400	-46.58	0.79	-19.21	27.36

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -46.58 dBm VBW 300 kHz
 10 dBm 2.40000000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH B: 2402 MHz
 Date: 30.MAY.2012 11:24:03

added by operator

Test: 15c.6; Frequency = 2480, Mode = BT transmit using 1 Mbps with GFSK modulation, Method = conducted

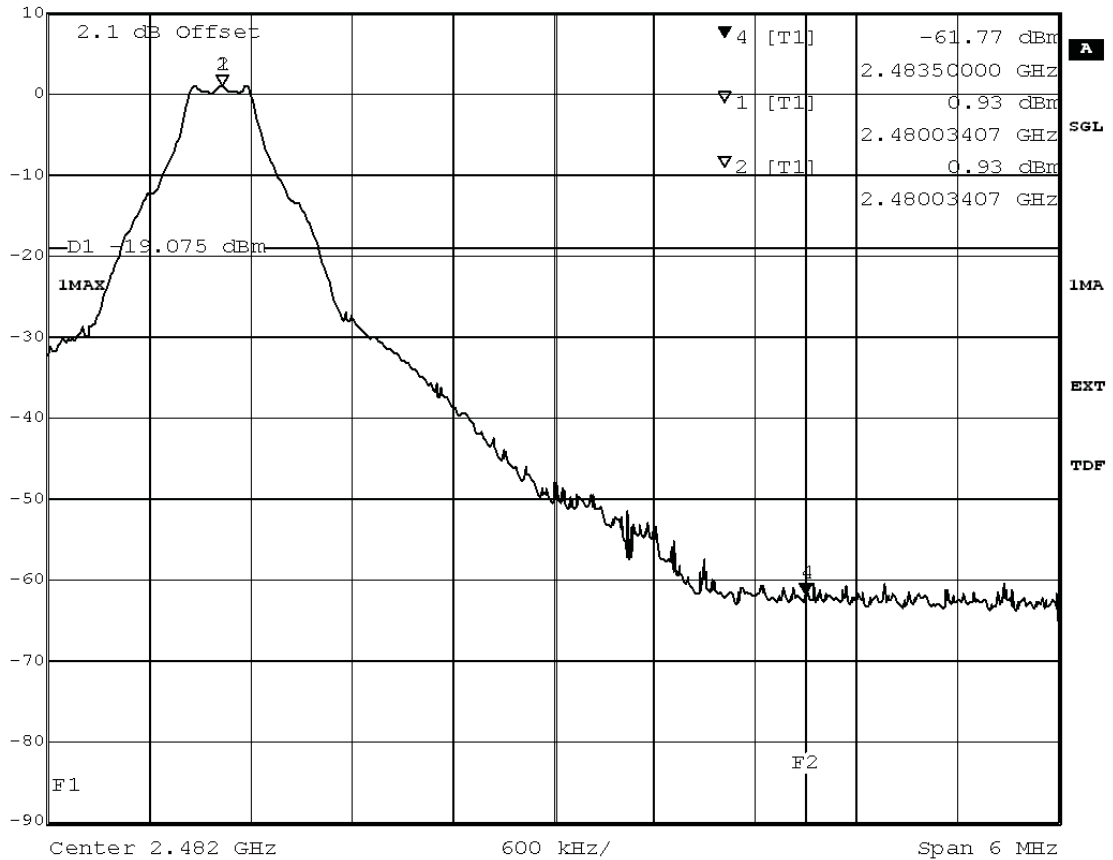
Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:02
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2484	-61.77	0.93	-19.07	42.69

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -61.77 dBm VBW 300 kHz
 10 dBm 2.48350000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 09:44:09

added by operator

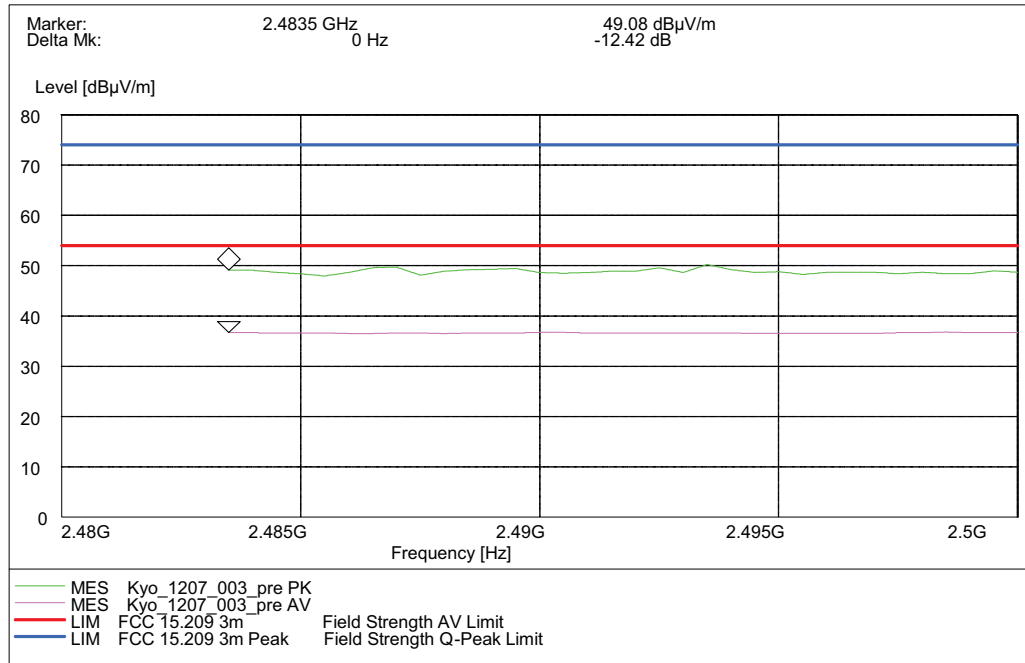
Test: 15c.6; Frequency = 2480, Mode = BT transmit using 1 Mbps with GFSK modulation, Method = radiated

Result: Passed
 Setup No.: S01_A01
 Date of Test: 2012/05/21 8:20
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15



Detailed Results:

TX on	Ant. Polar.	Limit PK [dBμV]	Limit AV [dBμV]	Frequency [MHz]	Corrected value PK [dBμV]	Corrected value AV [dBμV]	Margin PK [dB]	Margin AV [dB]	Result
2480 MHz	Ver + Hor	74	54	2483.5	49.08	36.66	24.92	17.34	Passed



Test: 15c.6; Frequency = 2480, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation, Method = conducted

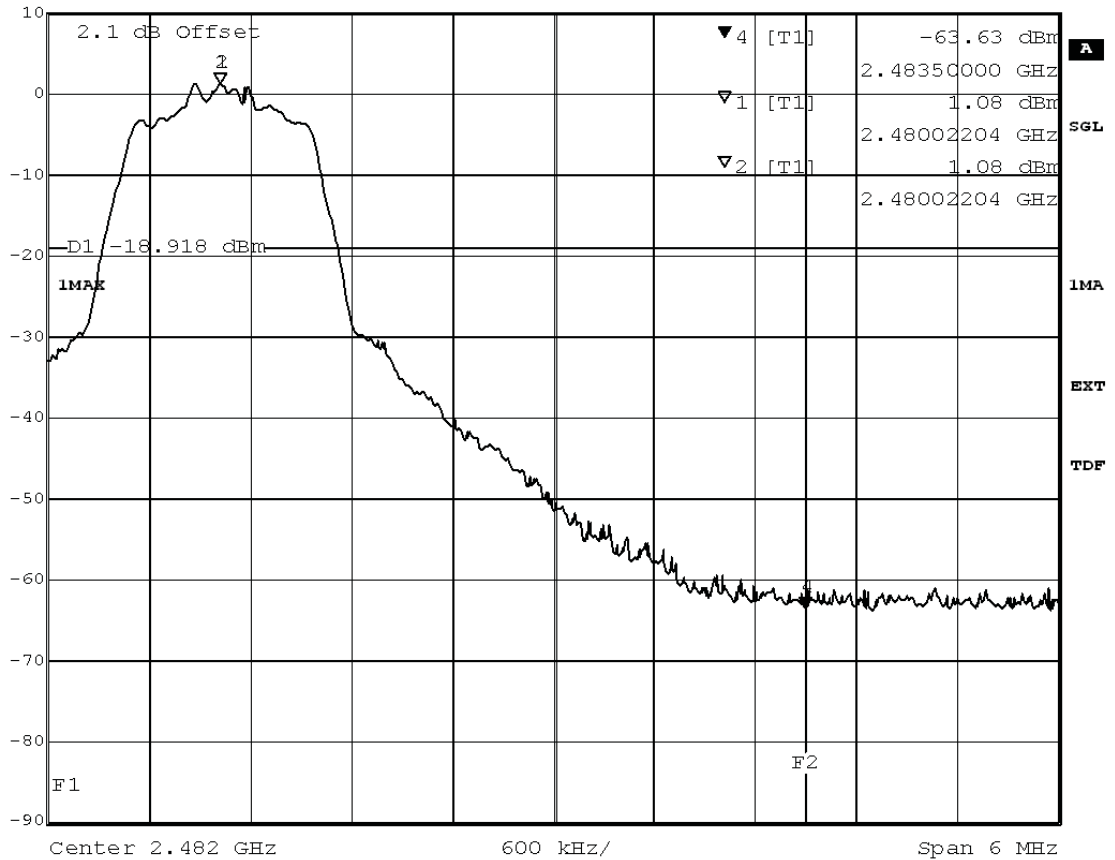
Result: Passed
 Setup No.: S01_N01
 Date of Test: 2012/05/30 13:14
 Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
 Test Specification: FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2484	-63.63	1.08	-18.92	44.72

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -63.63 dBm VBW 300 kHz
 10 dBm 2.48350000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 10:52:02

added by operator



Test: 15c.6; Frequency = 2480, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation, Method = radiated

Result: Passed
 The measurement was performed from 1 GHz up to 8 GHz because no significant spurious emissions were found outside this frequency range in GFSK modes.

Setup No.: S01_A01

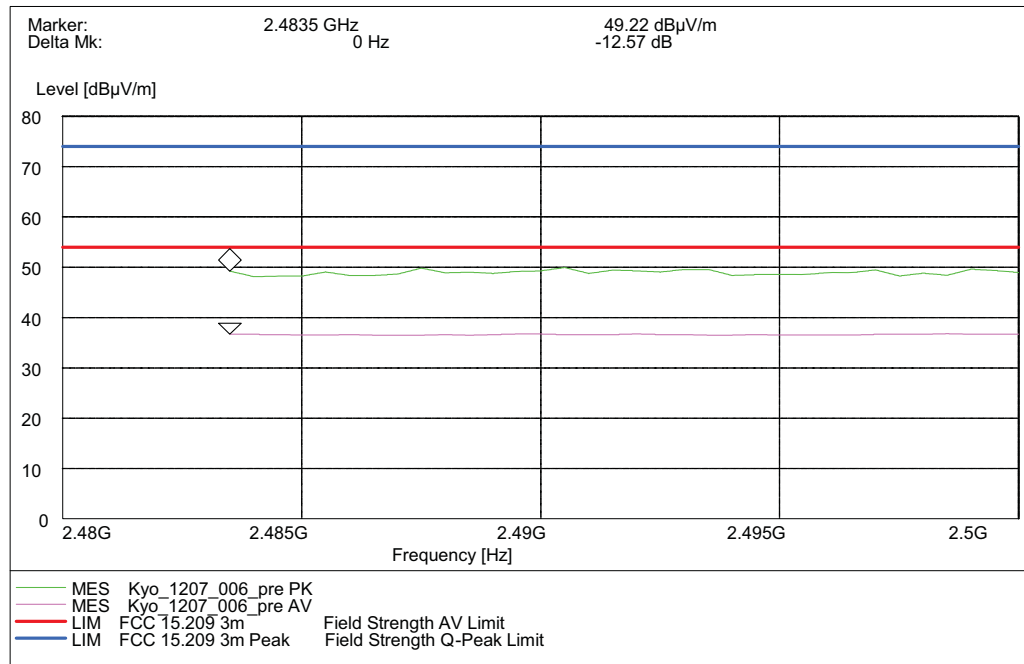
Date of Test: 2012/05/21 8:22

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

TX on	Ant. Polar.	Limit PK [dBμV]	Limit AV [dBμV]	Frequency [MHz]	Corrected value PK [dBμV]	Corrected value AV [dBμV]	Margin PK [dB]	Margin AV [dB]	Result
2480 MHz	Ver + Hor	74	54	2483.5	49.22	36.65	24.78	17.35	Passed



Test: 15c.6; Frequency = 2480, Mode = BT transmit using 3 Mbps with 8DPSK modulation, Method = conducted

Result: Passed

Setup No.: S01_N01

Date of Test: 2012/05/30 13:21

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

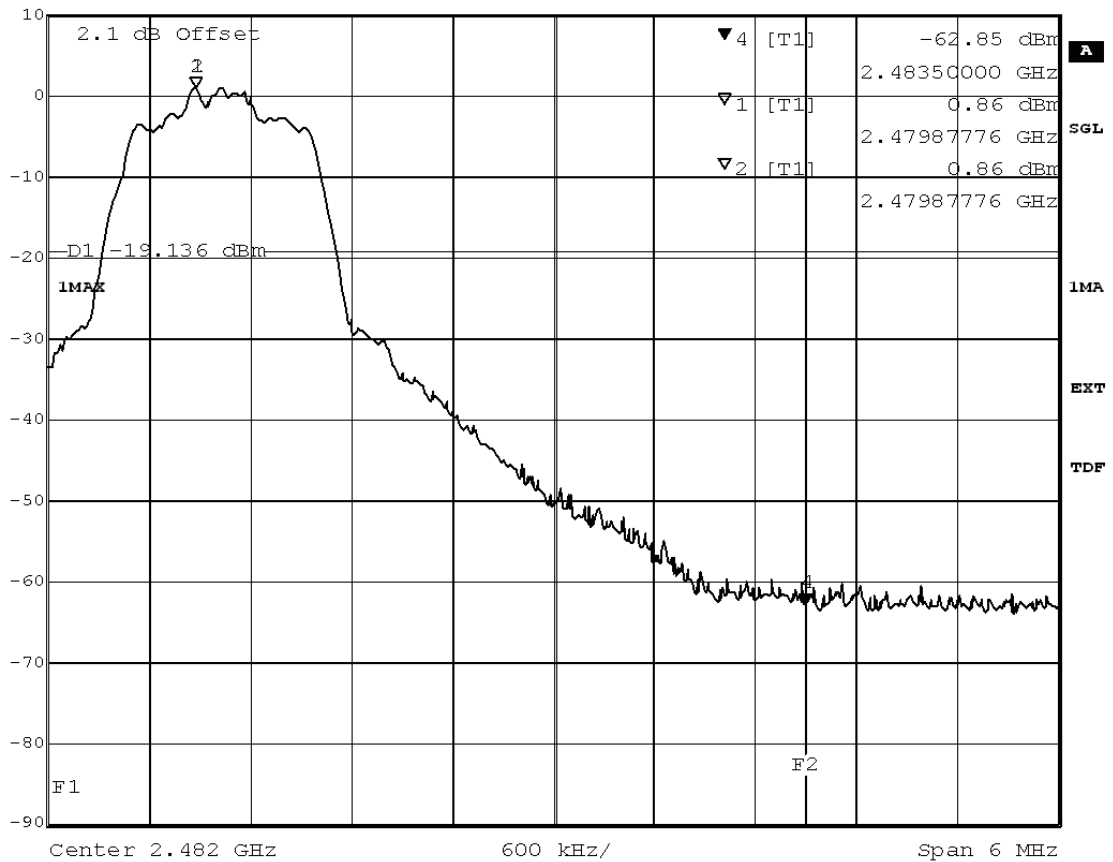
Test Specification: FCC part 2 and 15

Detailed Results:

Frequency MHz	Measured value dBm	Reference value dBm	Limit dBm	Margin to limit dB
2484	-62.85	0.86	-19.14	43.71

added by operator

Marker 4 [T1] RBW 100 kHz RF Att 20 dB
 Ref Lvl -62.85 dBm VBW 300 kHz
 10 dBm 2.48350000 GHz SWT 5 ms Unit dBm



Title: Band Edge Compliance
 Comment A: CH T: 2480 MHz
 Date: 30.MAY.2012 11:59:05

added by operator



Test: 15c.6; Frequency = 2480, Mode = BT transmit using 3 Mbps with 8DPSK modulation, Method = radiated

Result: Passed
 The measurement was performed from 1 GHz up to 8 GHz because no significant spurious emissions were found outside this frequency range in GFSK modes.

Setup No.: S01_A01

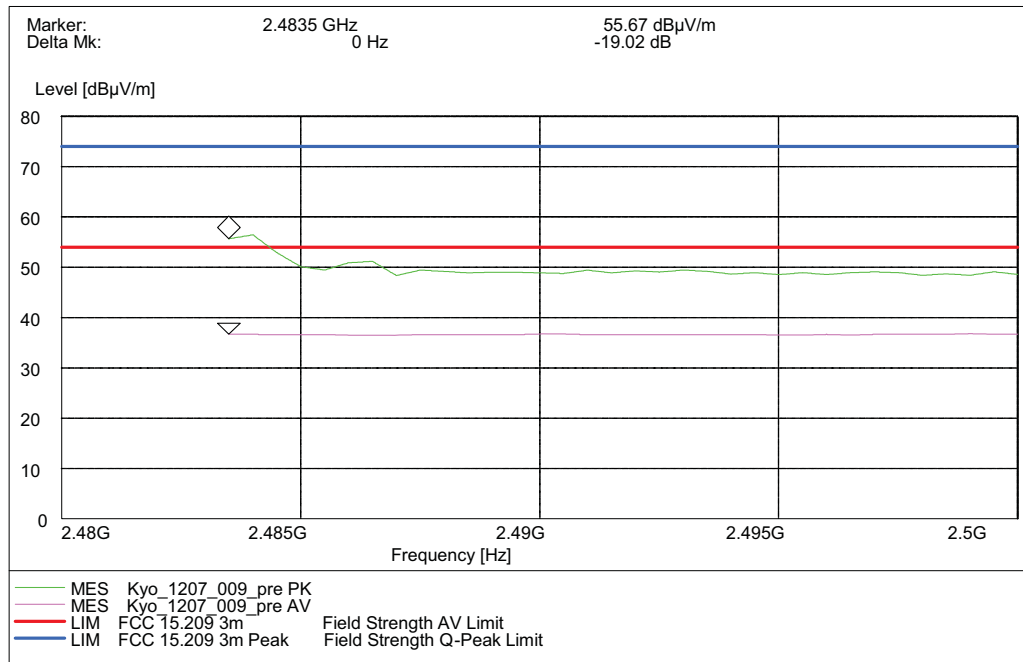
Date of Test: 2012/05/21 8:24

Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES

Test Specification: FCC part 2 and 15

Detailed Results:

TX on	Ant. Polar.	Limit PK [dBμV]	Limit AV [dBμV]	Frequency [MHz]	Corrected value PK [dBμV]	Corrected value AV [dBμV]	Margin PK [dB]	Margin AV [dB]	Result
2480 MHz	Ver + Hor	74	54	2483.5	56.44	36.65	17.56	17.35	Passed





3.5.7 15c.7 Dwell time §15.247 (a) (1) (iii)

Test: 15c.7; Frequency = 2441, Mode = BT transmit using 1 Mbps with GFSK modulation

Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:03
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

Packet type	Time slot length	Dwell time	Dwell time ms
DH5	2.93	time slot length * 1600/5 /79 * 31.6	374.51

added by operator

Test: 15c.7; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:14
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

Packet type	Time slot length	Dwell time	Dwell time ms
DH5	2.93	time slot length * 1600/5 /79 * 31.6	374.51

added by operator

Test: 15c.7; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

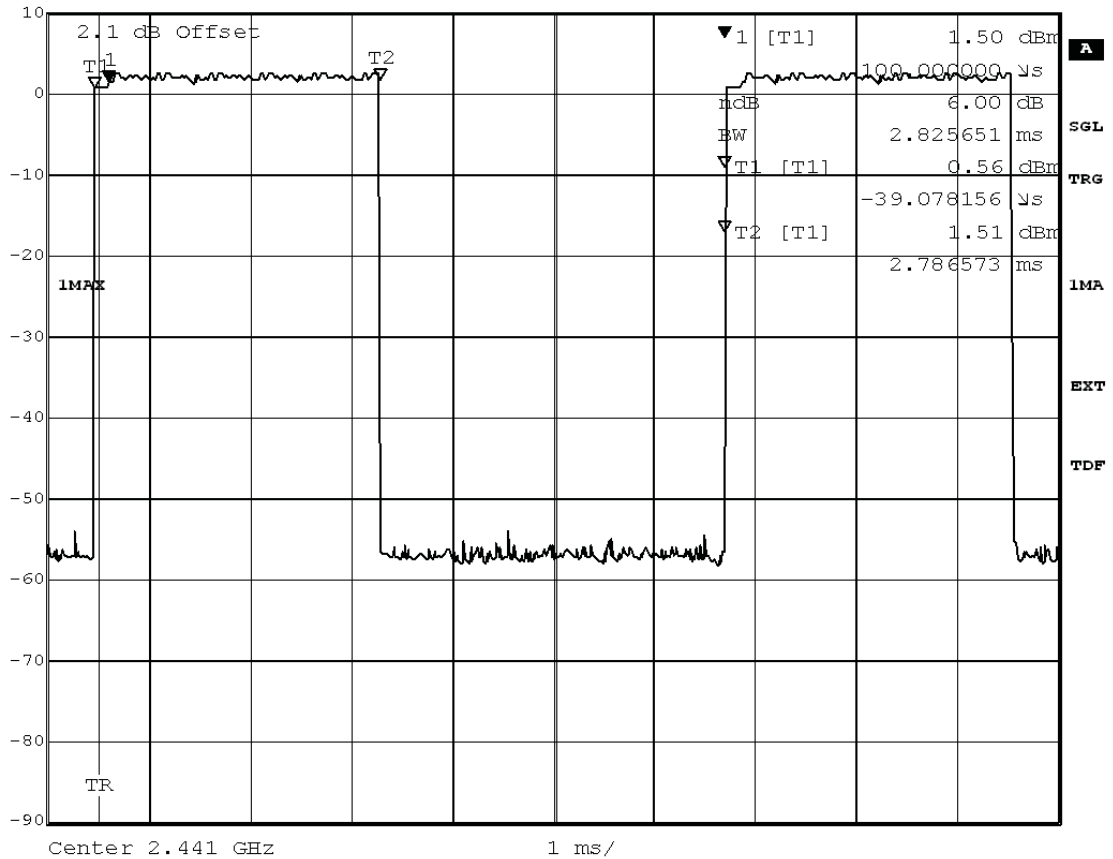
Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:22
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

Packet type	Time slot length	Dwell time	Dwell time ms
DH5	2.83	time slot length * 1600/5 /79 * 31.6	361.68

added by operator

Marker 1 [T1 ndB] RBW 1 MHz RF Att 20 dB
 Ref Lvl ndB 6.00 dB VBW 1 MHz
 10 dBm BW 2.825651 ms SWT 10 ms Unit dBm



Title: Dwell time
 Comment A: CH M: 2441 MHz
 Date: 30.MAY.2012 12:17:30

added by operator



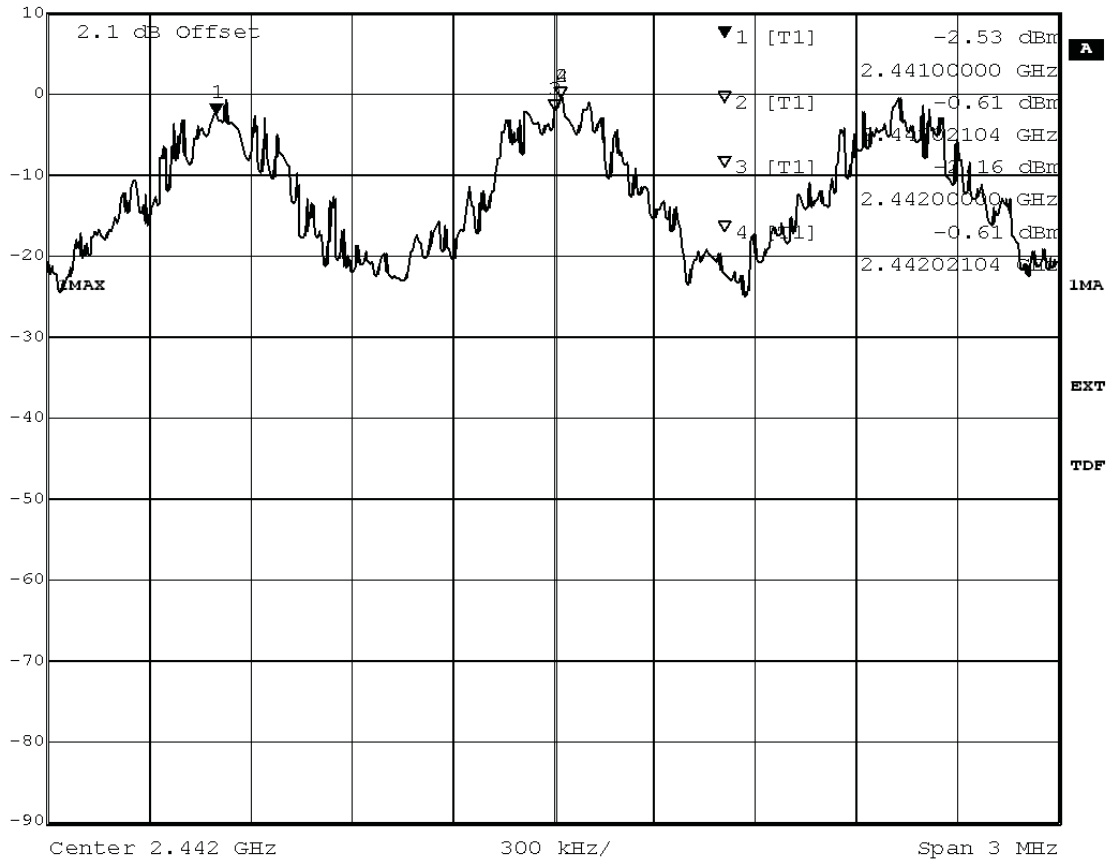
3.5.8 15c.8 Channel separation §15.247 (a) (1)

Test: 15c.8; Frequency = 2441, Mode = BT transmit using 1 Mbps with GFSK modulation

<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:04
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

	Marker 1 [T1]	RBW	30 kHz	RF Att	20 dB
Ref Lvl	-2.53 dBm	VBW	100 kHz		
10 dBm	2.44100000 GHz	SWT	8.5 ms	Unit	dBm



Title: Channel separation
 Comment A: CH H: Hopping
 Date: 30.MAY.2012 10:09:24
 added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

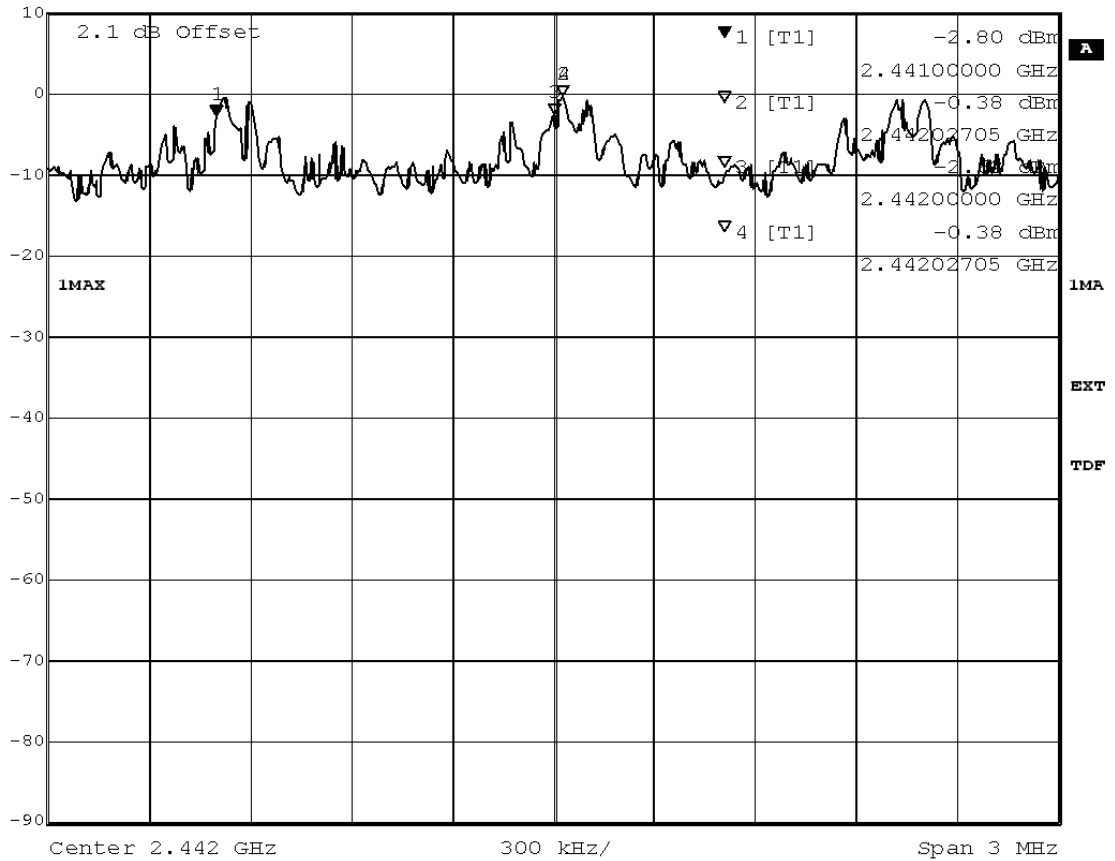
Channel Separation
1 MHz

Test: 15c.8; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:15
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

Ref Lvl	Marker 1 [T1]	RBW	30 kHz	RF Att	20 dB
10 dBm	-2.80 dBm	VBW	100 kHz		
	2.44100000 GHz	SWT	8.5 ms	Unit	dBm



Title: Channel separation
 Comment A: CH H: Hopping
 Date: 30.MAY.2012 11:20:09
 added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

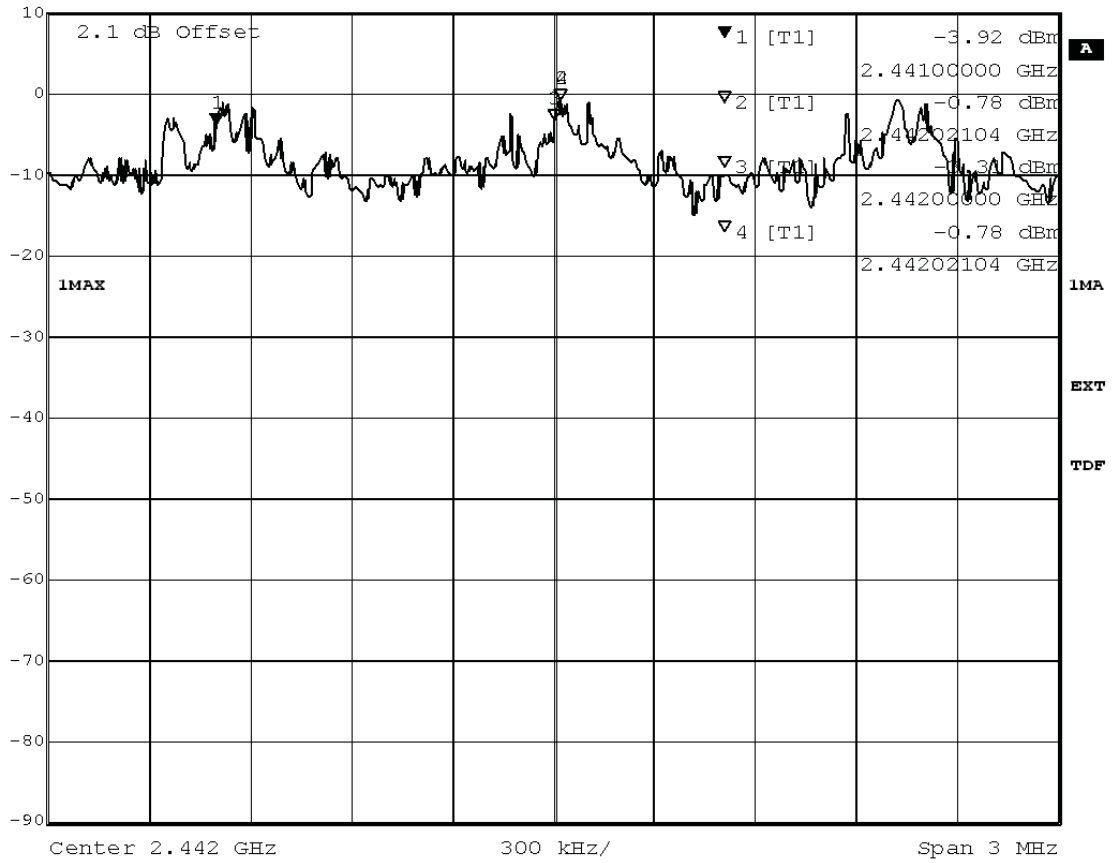
Channel Separation
1 MHz

Test: 15c.8; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

<i>Result:</i>	Passed
<i>Setup No.:</i>	S01_N01
<i>Date of Test:</i>	2012/05/30 13:23
<i>Body:</i>	FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
<i>Test Specification:</i>	FCC part 2 and 15

Detailed Results:

Ref Lvl	Marker 1 [T1]	RBW	30 kHz	RF Att	20 dB
10 dBm	-3.92 dBm	VBW	100 kHz		
	2.44100000 GHz	SWT	8.5 ms	Unit	dBm



Title: Channel separation
 Comment A: CH H: Hopping
 Date: 30.MAY.2012 12:22:19
 added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Channel Separation
1 MHz



3.5.9 15c.9 Number of hopping frequencies §15.247 (a) (1) (iii)

Test: 15c.9; Frequency = 2441, Mode = BT transmit using 1 Mbps with GFSK modulation

Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:05
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

Number of Hopping Frequencies
79

Test: 15c.9; Frequency = 2441, Mode = BT transmit using 2 Mbps with PI/4 DQPSK modulation

Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:15
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

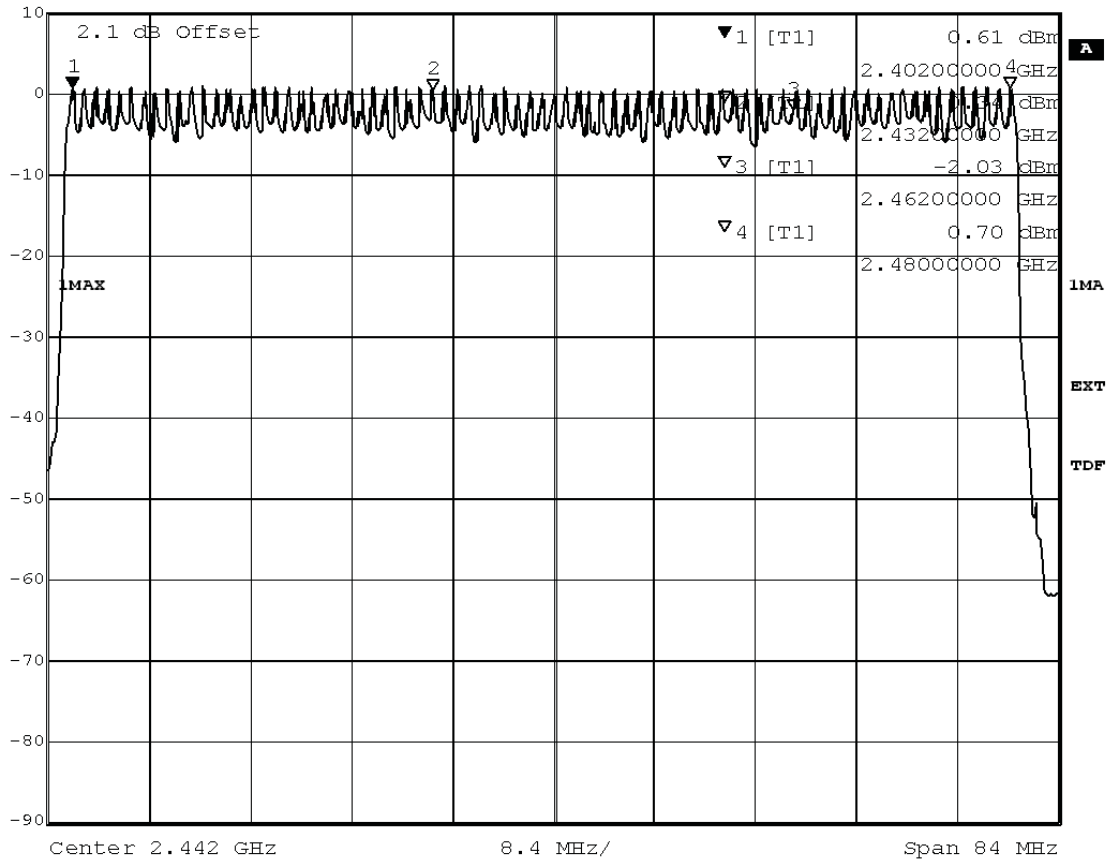
Number of Hopping Frequencies
79

Test: 15c.9; Frequency = 2441, Mode = BT transmit using 3 Mbps with 8DPSK modulation

Result: Passed
Setup No.: S01_N01
Date of Test: 2012/05/30 13:23
Body: FCC47CFRChIPART15c247RADIO FREQUENCY DEVICES
Test Specification: FCC part 2 and 15

Detailed Results:

	Marker 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.61 dBm	VBW	300 kHz		
10 dBm	2.40200000 GHz	SWT	21 ms	Unit	dBm



Title: Number of hopping frequencies
 Comment A: CH H: Hopping
 Date: 30.MAY.2012 12:24:47
 added by operator



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

Number of Hopping Frequencies
79

4 Test Equipment Details

4.1 List of Used Test Equipment

The calibration, hardware and software states are shown for the testing period.

Test Equipment Anechoic Chamber

Lab ID:	Lab 2
<i>Manufacturer:</i>	Frankonia
<i>Description:</i>	Anechoic Chamber for radiated testing
<i>Type:</i>	10.58x6.38x6.00 m ³

Single Devices for Anechoic Chamber

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>	
Air compressor	none	-	Atlas Copco	
Anechoic Chamber	10.58 x 6.38 x 6.00 m ³	none	Frankonia	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	FCC listing 96716 3m Part15/18		2011/01/11	2014/01/10
	IC listing 3699A-1 3m		2011/02/07	2014/02/06
Controller Maturo	MCU	961208	Maturo GmbH	
EMC camera	CE-CAM/1	-	CE-SYS	
EMC camera Nr.2	CCD-400E	0005033	Mitsubishi	
Filter ISDN	B84312-C110-E1		Siemens&Matsushita	
Filter Universal 1A	BB4312-C30-H3	-	Siemens&Matsushita	

Test Equipment Auxiliary Equipment for Conducted emissions

Lab ID:	Lab 1
<i>Manufacturer:</i>	Rohde & Schwarz GmbH & Co.KG
<i>Description:</i>	EMI Conducted Auxiliary Equipment

Single Devices for Auxiliary Equipment for Conducted emissions

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>	
Cable "LISN to ESI"	RG214	W18.03+W48.03	Huber&Suhner	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Path Calibration		2011/11/11	2012/11/10
Two-Line V-Network	ESH 3-Z5	828304/029	Rohde & Schwarz GmbH & Co. KG	
Two-Line V-Network	ESH 3-Z5	829996/002	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	DKD calibration		2011/01/20	2013/01/19

Test Equipment Auxiliary Equipment for Radiated emissions

Lab ID:	Lab 2
<i>Description:</i>	Equipment for emission measurements
<i>Serial Number:</i>	see single devices

Single Devices for Auxiliary Equipment for Radiated emissions

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>	
Antenna mast	AS 620 P	620/37	HD GmbH	
Biconical dipole	VUBA 9117	9117-108	Schwarzbeck	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2008/10/27	2013/10/26
	Standard Calibration		2012/01/18	2015/01/17
Broadband Amplifier 18MHz-26GHz	JS4-18002600-32-5P	849785	Miteq	
Broadband Amplifier 1GHz-4GHz	AFS4-01000400-1Q-10P-4	-	Miteq	
Broadband Amplifier 30MHz-18GHz	JS4-00101800-35-5P	896037	Miteq	
Cable "ESI to EMI Antenna"	EcoFlex10	W18.01- 2+W38.01-2	Kabel Kusch	
Cable "ESI to Horn Antenna"	UFB311A+UFB293C	W18.02- 2+W38.02-2	Rosenberger Micro-Coax	
Double-ridged horn	HF 906	357357/001	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2012/05/18	2015/05/17
Double-ridged horn	HF 906	357357/002	Rohde & Schwarz GmbH & Co. KG	
High Pass Filter	4HC1600/12750-1.5-KK	9942011	Trilithic	
High Pass Filter	5HC2700/12750-1.5-KK	9942012	Trilithic	
High Pass Filter	5HC3500/12750-1.2-KK	200035008	Trilithic	
High Pass Filter	WHKX 7.0/18G-8SS	09	Wainwright	
Log.-per. Antenna	HL 562 Ultralog	830547/003	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2009/05/27	2012/05/26
Loop Antenna	HFH2-Z2	829324/006	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard calibration		2011/10/27	2014/10/26
Pyramidal Horn Antenna 26,5 GHz	3160-09	00083069	EMCO Elektronik GmbH	
Pyramidal Horn Antenna 40 GHz	3160-10	00086675	EMCO Elektronik GmbH	
Tilt device Maturò (Rohacell)	Antrieb TD1.5-10kg	TD1.5- 10kg/024/379070 9	Maturò GmbH	



Test Equipment Auxiliary Test Equipment

Lab ID:	Lab 2
<i>Manufacturer:</i>	see single devices
<i>Description:</i>	Single Devices for various Test Equipment
<i>Type:</i>	various
<i>Serial Number:</i>	none

Single Devices for Auxiliary Test Equipment

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>	
Broadband Power Divider N (Aux)	1506A / 93459	LM390	Weinschel Associates	
Broadband Power Divider SMA	WA1515	A855	Weinschel Associates	
Digital Multimeter 03 (Multimeter)	Fluke 177	86670383	Fluke Europe B.V.	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Customized calibration		2011/10/19	2013/10/18
Fibre optic link Satellite (Aux)	FO RS232 Link	181-018	Pontis	
Fibre optic link Transceiver (Aux)	FO RS232 Link	182-018	Pontis	
Isolating Transformer	LTS 604	1888	Thalheimer Transformatorenwerke GmbH	
Notch Filter Ultra Stable (Aux)	WRCA800/960-6EEK	24	Wainwright	
Vector Signal Generator	SMIQ 03B	832492/061	Rohde & Schwarz GmbH & Co.KG	



Test Equipment Digital Signalling Devices

Lab ID: Lab 1, Lab 2
Description: Signalling equipment for various wireless technologies.

Single Devices for Digital Signalling Devices

Single Device Name	Type	Serial Number	Manufacturer	
Bluetooth Signalling Unit CBT	CBT	100589	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard calibration		2011/11/24	2014/11/23
Universal Radio Communication Tester	CMU 200	102366	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard calibration		2011/05/26	2013/05/25
	<i>HW/SW Status</i>		<i>Date of Start</i>	<i>Date of End</i>
	Hardware: B11, B21V14, B21-2, B41, B52V14, B52-2, B53-2, B56V14, B68 3v04, PCMCIA, U65V04 Software: K21 4v21, K22 4v21, K23 4v21, K24 4v21, K42 4v21, K43 4v21, K53 4v21, K56 4v22, K57 4v22, K58 4v22, K59 4v22, K61 4v22, K62 4v22, K63 4v22, K64 4v22, K65 4v22, K66 4v22, K67 4v22, K68 4v22, K69 4v22 Firmware: µP1 8v50 02.05.06 ---		2007/07/16	
Universal Radio Communication Tester	CMU 200	837983/052	Rohde & Schwarz GmbH & Co. KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard calibration		2011/12/07	2014/12/06
	<i>HW/SW Status</i>		<i>Date of Start</i>	<i>Date of End</i>
	HW options: B11, B21V14, B21-2, B41, B52V14, B52-2, B53-2, B54V14, B56V14, B68 3v04, B95, PCMCIA, U65V02 SW options: K21 4v11, K22 4v11, K23 4v11, K24 4v11, K27 4v10, K28 4v10, K42 4v11, K43 4v11, K53 4v10, K65 4v10, K66 4v10, K68 4v10, Firmware: µP1 8v40 01.12.05 --- SW: K62, K69		2007/01/02	2008/11/03



Test Equipment Emission measurement devices

Lab ID: Lab 1, Lab 2
Description: Equipment for emission measurements
Serial Number: see single devices

Single Devices for Emission measurement devices

Single Device Name	Type	Serial Number	Manufacturer	
Personal Computer	Dell	30304832059	Dell	
Power Meter	NRVD	828110/016	Rohde & Schwarz GmbH & Co.KG	
Sensor Head A	NRV-Z1	827753/005	Rohde & Schwarz GmbH & Co.KG	
Signal Generator	SMR 20	846834/008	Rohde & Schwarz GmbH & Co. KG	
<i>Calibration Details</i>			<i>Last Execution</i>	<i>Next Exec.</i>
	standard calibration		2011/05/12	2014/05/11
Spectrum Analyzer	ESIB 26	830482/004	Rohde & Schwarz GmbH & Co. KG	
<i>Calibration Details</i>			<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/12/05	2013/12/04
<i>HW/SW Status</i>			<i>Date of Start</i>	<i>Date of End</i>
	Firmware-Update 4.34.4 from 3.45 during calibration		2009/12/03	

Test Equipment Multimeter 12

Lab ID: Lab 3
Description: Ex-Tech 520
Serial Number: 05157876

Single Devices for Multimeter 12

Single Device Name	Type	Serial Number	Manufacturer	
Digital Multimeter 12 (Multimeter)	EX520	05157876	Extech Instruments Corp.	
<i>Calibration Details</i>			<i>Last Execution</i>	<i>Next Exec.</i>
	Customized calibration		2011/10/18	2013/10/17



Test Equipment Regulatory Bluetooth RF Test Solution

Lab ID: Lab 3
Description: Regulatory Bluetooth RF Tests
Type: Bluetooth RF
Serial Number: 001

Single Devices for Regulatory Bluetooth RF Test Solution

Single Device Name	Type	Serial Number	Manufacturer	
ADU 200 Relay Box 7	Relay Box	A04380	Ontrak Control Systems Inc.	
Bluetooth Signalling Unit CBT	CBT	100302	Rohde & Schwarz GmbH & Co.KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/08/17	2012/08/16
Power Meter NRVD	NRVD	832025/059	Rohde & Schwarz GmbH & Co.KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/06/14	2012/06/13
Power Sensor NRV Z1 A	PROBE	832279/013	Rohde & Schwarz GmbH & Co.KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/06/14	2012/06/13
Power Supply	NGSM 32/10	2725	Rohde & Schwarz GmbH & Co.KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/06/15	2013/06/14
Rubidium Frequency Normal MFS	Datum MFS	002	Datum GmbH	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2011/08/17	2012/08/16
Signal Analyser FSIQ26	1119.6001.26	832695/007	Rohde & Schwarz GmbH & Co.KG	
Vector Signal Generator SMIQ03B	SMIQ03B	832870/017	Rohde & Schwarz GmbH & Co.KG	
	<i>Calibration Details</i>		<i>Last Execution</i>	<i>Next Exec.</i>
	Standard Calibration		2010/06/23	2013/06/20

Test Equipment Shielded Room 02

Lab ID: Lab 1
Manufacturer: Frankonia
Description: Shielded Room for conducted testing
Type: 12 qm
Serial Number: none

Test Equipment Shielded Room 07

Lab ID: Lab 3
Description: Shielded Room 4m x 6m

Test Equipment T/H Logger 04

Lab ID: Lab 3
Description: Lufft Opus10
Serial Number: 7481

Single Devices for T/H Logger 04

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>
ThermoHygro Datalogger 04 (Environ)	Opus10 THI (8152.00)	7481	Lufft Mess- und Regeltechnik GmbH

Test Equipment Temperature Chamber 01

Lab ID: Lab 3
Manufacturer: see single devices
Description: Temperature Chamber KWP 120/70
Type: Weiss
Serial Number: see single devices

Single Devices for Temperature Chamber 01

<i>Single Device Name</i>	<i>Type</i>	<i>Serial Number</i>	<i>Manufacturer</i>
Temperature Chamber Weiss 01	KWP 120/70	59226012190010	Weiss Umwelttechnik GmbH
	<i>Calibration Details</i>		<i>Last Execution</i> <i>Next Exec.</i>
	Customized calibration		2012/03/12 2014/03/11



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

5 Annex

5.1 Additional Information for Report



Summary of Test Results

The EUT complied with all performed tests as listed in the summary section of this report.

Technical Report Summary

Type of Authorization :

Certification for an Intentional Radiator (Frequency Hopping Spread Spectrum).

Applicable FCC Rules

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47 CFR Ch.1 Parts 2 and 15. The following subparts are applicable to the results in this test report

Part 2, Subpart J - Equipment Authorization Procedures, Certification

Part 15, Subpart C – Intentional Radiators

- § 15.201 Equipment authorization requirement
- § 15.207 Conducted limits
- § 15.209 Radiated emission limits; general requirements
- § 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz

additional documents

The tests were selected and performed with reference to the FCC Public Notice DA 00-705, released March 30, 2000. Instead of applying ANSI C63.4-1992 which is referenced in the FCC Public Note, the newer ANSI C63.4-2009 is applied.

Description of Methods of Measurements

Conducted emissions (AC power line)

Standard FCC Part 15, Subpart C

The test was performed according to: ANSI C 63.4,

Test Description

The test set-up was made in accordance to the general provisions of ANSI C 63.4.
The Equipment Under Test (EUT) was setup in a shielded room to perform the conducted emissions measurements in a typical installation configuration. The EUT was powered from 50 μ H || 50 Ohm Line Impedance Stabilization Network (LISN). The LISN's unused connections were terminated with 50 Ohm loads. The measurement procedure consists of two steps. It is implemented into the EMI test software ES-K1 from R&S.

Step 1: Preliminary scan

Intention of this step is, to determine the conducted EMI-profile of the EUT.

EMI receiver settings:

- Detector: Peak - Maxhold
- Frequency range: 150 kHz – 30 MHz
- Frequency steps: 5 kHz
- IF-Bandwidth: 9 kHz
- Measuring time / Frequency step: 20 ms
- Measurement on phase + neutral lines of the power cords

On basis of this preliminary scan the highest amplitudes and the corresponding frequencies relative to the limit are identified. Emissions above the limit and emissions which are in the 10 dB range below the limit are considered.

Step 2: Final measurement

Intention of this step is, to determine the highest emissions with the settings defined in the test specification for the frequencies identified in step 1.

EMI receiver settings:

- Detector: Quasi-Peak
- IF - Bandwidth: 9 kHz
- Measuring time: 1 s / frequency

At each frequency determined in step 1, four measurements are performed in the following combinations:

- 1) Neutral lead - reference ground (PE grounded)
- 2) Phase lead - reference ground (PE grounded)
- 3) Neutral lead - reference ground (PE floating)
- 4) Phase lead - reference ground (PE floating)

The highest value is reported.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.207

Frequency Range (MHz)	QP Limit (dB μ V)	AV Limit (dB μ V)
0.15 – 0.5	66 to 56	56 to 46
0.5 – 5	56	46
5 – 30	60	50

Used conversion factor: Limit (dB μ V) = 20 log (Limit (μ V)/1 μ V).

Occupied bandwidth

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was setup to perform the occupied bandwidth measurements. The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical. The results recorded were measured with the modulation which produces the worst-case (widest) occupied bandwidth. The resolution bandwidth for measuring the reference level and the occupied bandwidth was 30 kHz. The EUT was connected to the spectrum analyzer via a short coax cable.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (a) (1)

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. 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 pseudo randomly 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.

Implication by the test laboratory:

Since the Bluetooth technology defines a fixed channel separation of 1 MHz this design parameter defines the maximum allowed occupied bandwidth depending on the EUT's output power:

1. Under the provision that the system operates with an output power not greater than 125 mW (21.0 dBm):
Implicit Limit: Max. 20 dB BW = $1.0 \text{ MHz} / 2/3 = 1.5 \text{ MHz}$
2. If the system output power exceeds 125 mW (21.0 dBm): Implicit Limit: Max. 20 dB BW = 1.0 MHz

Used conversion factor: Output power (dBm) = $10 \log (\text{Output power (W)} / 1\text{mW})$

The measured output power of the system is below 125 mW (21.0 dBm). For the results, please refer to the related chapter of this report. Therefore the limit is determined as 1.5 MHz.

Peak power output

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was set up to perform the output power measurements. The resolution bandwidth for measuring the output power was set to 3 MHz. The reference level of the spectrum analyzer was set higher than the output power of the EUT. The EUT was connected to the spectrum analyzer via a short coax cable with a known loss.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (b) (1)

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:
(1) For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt.

Used conversion factor: Limit (dBm) = $10 \log (\text{Limit (W)}/1\text{mW})$
==> Maximum Output Power: 30 dBm

Spurious RF conducted emissions

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was set up to perform the spurious emissions measurements. The EUT was connected to spectrum analyzer via a short coax cable with a known loss.

Analyzer settings:

- Detector: Peak-Maxhold
- Frequency range: 30 – 25000 MHz
- Resolution Bandwidth (RBW): 100 kHz

- Video Bandwidth (VBW): 300 kHz
- Sweep Time: 330 s

The reference value for the measurement of the spurious RF conducted emissions is determined during the test "band edge compliance" (cf. chapter 3.6). This value is used to calculate the 20 dBc limit.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (c)

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

Spurious radiated emissions

Standard FCC Part 15, Subpart C

The test was performed according to: ANSI C 63.4,

Test Description

The test set-up was made in accordance to the general provisions of ANSI C63.4-2009.

The Equipment Under Test (EUT) was set up on a non-conductive table 1.0 x 2.0 m in the semi-anechoic chamber. The influence of the EUT support table that is used between 30-1000 MHz was evaluated.

The test was performed at the distance of 3 m between the EUT and the receiving antenna. The measurement procedure is implemented into the EMI test software ES-K1 from R&S. The radiated emissions measurements were made in a typical installation configuration. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is performed at 2 axes. A pre-check is also performed while the EUT is powered from both AC and DC (battery) power in order to find the worst-case operating condition.

1. Measurement up to 30 MHz

The test set-up was made in accordance to the general provisions of ANSI C63.4.

The Equipment Under Test (EUT) was set up on a non-conductive table in the anechoic chamber.

The radiated emissions measurements were made in a typical installation configuration.

The measurement procedure is implemented into the EMI test software ES-K1 from R&S.

The Loop antenna HFH2-Z2 is used.

Step 1: pre-measurement

- Anechoic chamber
- Antenna distance: 10 m
- Detector: Peak-Maxhold
- Frequency range: 0.009 – 0.15 and 0.15 – 30 MHz
- Frequency steps: 0.1 kHz and 5 kHz
- IF-Bandwidth: 0.2 kHz and 10 kHz
- Measuring time / Frequency step: 100 ms

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: final measurement

For the relevant emissions determined in step 1, an additional measurement with the following settings will be performed. Intention of this step is to find the maximum emission level.

- Open area test side
- Antenna distance: according to the Standard
- Detector: Quasi-Peak
- Frequency range: 0.009 – 30 MHz
- Frequency steps: measurement at frequencies detected in step 1
- IF-Bandwidth: 200 Hz – 10 kHz
- Measuring time / Frequency step: 100 ms

2. Measurement above 30 MHz and up to 1 GHz

Step 1: Preliminary scan

Preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:

- Detector: Peak-Maxhold
- Frequency range: 30 – 1000 MHz
- Frequency steps: 60 kHz
- IF-Bandwidth: 120 kHz
- Measuring time / Frequency step: 100 μ s (BT Timing 1.25 ms)
- Turntable angle range: -180 to +180°

- Turntable step size: 90°
- Height variation range: 1 – 3 m
- Height variation step size: 2 m
- Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: second measurement

For the relevant emissions determined in step 1, an additional measurement with the following settings will be performed. Intention of this step is, to find out the approximate turntable angle and antenna height for each frequency.

- Detector: Peak – Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: -180 to +180°
- Turntable step size: 45°
- Height variation range: 1 – 4 m
- Height variation step size: 0.5 m
- Polarisation: horizontal + vertical

After this step the EMI test system has determined the following values for each frequency (of step 1):

- Frequency
- Azimuth value (of turntable)
- Antenna height

The last two values have now the following accuracy:

- Azimuth value (of turntable): 45°
- Antenna height: 0.5 m

Step 3: final measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will be slowly varied by +/-22.5° around this value. During this action the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position the antenna height is also slowly varied by +/-25 cm around the antenna height determined. During this action the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: Peak – Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: -22.5° to +22.5° around the determined value
- Height variation range: -0.25 m to +0.25 m around the determined value

Step 4: final measurement with QP detector

With the settings determined in step 3, the final measurement will be performed:

EMI receiver settings for step 4:

- Detector: Quasi-Peak (< 1 GHz)
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 1 s

3. Measurement above 1 GHz

The following modifications apply to the measurement procedure for the frequency range above 1 GHz:

The measurement distance was reduced to 1 m. The results were extrapolated by the extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements, inverse linear-distance squared for the power reference level measurements). Due to the fact that in this frequency range a double ridged wave guided horn antenna (up to 18 GHz) and a horn antenna (18–25 GHz) are used, the steps 2–4 are omitted. Step 1 was performed with one height of the receiving antenna only.

EMI receiver settings:

- Detector: Peak, Average
- IF Bandwidth = 1 MHz

After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

For the enhanced data rate packets the test is performed as worst-case-check in order to verify that emissions have a comparable level as found at basic data rate. Typically, the measurement for these packets is performed in the frequency range 1 to 8 GHz but it depends on the emissions found during the test for the basic data rate. Please refer to the results for the used frequency range.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (d)

... In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limit(dBµV/m @10m)
0.009 – 0.49	2400/F(kHz)	300	Limit (dBµV/m)+30dB
0.49 – 1.705	24000/F(kHz)	30	Limit (dBµV/m)+10dB
1.705 - 30	30	30	Limit (dBµV/m)+10dB

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limit (dBµV/m)
30 - 88	100	3	40.0
88 - 216	150	3	43.5
216 - 960	200	3	46.0
above 960	500	3	54.0

§15.35(b)

..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: $\text{Limit (dBµV/m)} = 20 \log (\text{Limit (µV/m)}/1µV/m)$

Band edge compliance

Standard FCC Part 15, Subpart C

The test was performed according to: ANSI C 63.4, FCC §15.31

Test Description

The procedure to show compliance with the band edge requirement is divided into two measurements: 1. Show compliance of the lower band edge by a conducted measurement and 2. show compliance of the higher band edge by a radiated and conducted measurement.

For the first measurement the EUT is set to transmit on the lowest channel (2402 MHz). The lower band edge is 2400 MHz.

Analyzer settings:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz

For the second measurement the EUT is set to transmit on the highest channel (2480 MHz). The higher band edge is 2483.5 MHz.

Analyzer settings for conducted measurement:

- Detector: Peak
- RBW= 100 kHz
- VBW= 300 kHz

EMI receiver settings:

- Detector: Peak, Average
- IF Bandwidth = 1 MHz

Test Requirements / Limits

FCC Part 15.247 (d)

"In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

...

Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c))."

For the measurement of the lower band edge the RF power at the band edge 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..."

For the measurement of the higher band edge the limit is "specified in Section 15.209(a)".

Dwell time

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was set up to perform the dwell time measurements. The EUT was connected to the spectrum analyzer via a short coax cable. The dwell time is calculated by:

Dwell time = time slot length * hop rate / number of hopping channels * 31.6 s

with:

- hop rate = $1600 * 1/s$ for DH1 packets = 1600 s⁻¹
- hop rate = $1600/3 * 1/s$ for DH3 packets = 533.33 s⁻¹
- hop rate = $1600/5 * 1/s$ for DH5 packets = 320 s⁻¹
- number of hopping channels = 79
- 31.6 s = 0.4 seconds multiplied by the number of hopping channels = $0.4 \text{ s} * 79$

The highest value of the dwell time is reported.

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (a) (1) (iii)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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 channels employed. Since the Bluetooth technology uses 79 channels this period is calculated to be 31.6 seconds.

Channel separation

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was set up to perform the channel separation measurements. The channel separation is independent from the modulation pattern.

The EUT was connected to spectrum analyzer via a short coax cable.

Analyzer settings:

- Detector: Peak-Maxhold
- Span: 3 MHz
- Centre Frequency: a mid frequency of the 2.4 GHz ISM band
- Resolution Bandwidth (RBW): 30 kHz
- Video Bandwidth (VBW): 100 kHz
- Sweep Time: Coupled

Test Requirements / Limits



FCC Part 15, Subpart C, §15.247 (a) (1)
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. 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 pseudo randomly 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.

Number of hopping frequencies

Standard FCC Part 15, Subpart C

The test was performed according to: FCC §15.31

Test Description

The Equipment Under Test (EUT) was set up to perform the number of hopping frequencies measurement. The number of hopping frequencies is independent from the modulation pattern. The EUT was connected to spectrum analyzer via a short coax cable.

- Analyzer settings:
- Detector: Peak-Maxhold
 - Centre frequency: 2442 MHz
 - Frequency span: 84 MHz
 - Resolution Bandwidth (RBW): 100 kHz
 - Video Bandwidth (VBW): 300 kHz
 - Sweep Time: Coupled

Test Requirements / Limits

FCC Part 15, Subpart C, §15.247 (a) (iii)
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

FCC and IC Correlation of measurement requirements

The following tables show the correlation of measurement requirements for Bluetooth equipment and Digital Apparatus from FCC and IC standards.

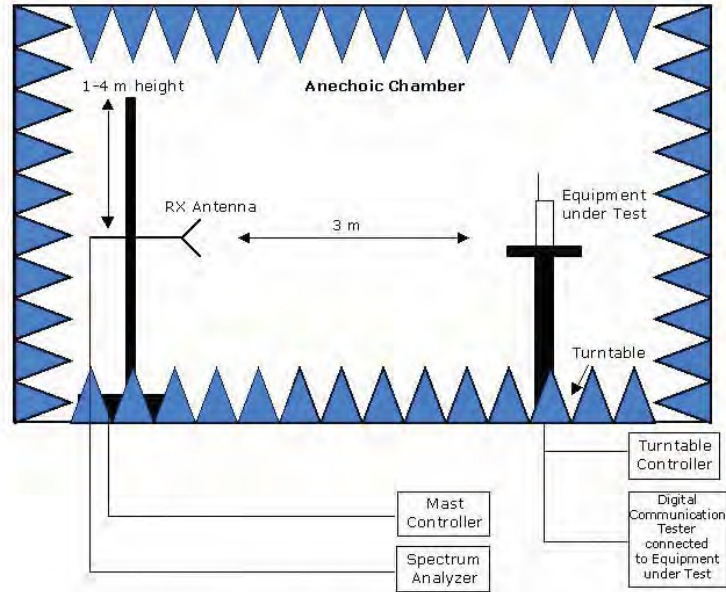
Bluetooth® equipment:

Measurement	FCC reference	IC reference
Conducted emissions on AC mains	§ 15.207	RSS-Gen: 7.2.4
Occupied bandwidth	§ 15.247 (a) (1)	RSS-210: A8.1
Peak power output	§ 15.247 (b) (1)	RSS-210: A8.4
Spurious RF conducted emissions	§ 15.247 (d)	RSS-Gen: 6;RSS-210: A8.5
Spurious radiated emissions	§ 15.247 (d)	RSS-Gen: 6;RSS-210: A8.5
Band edge compliance	§ 15.247 (d)	RSS-210: A8.5
Dwell time	§ 15.247 (a) (1) (iii)	RSS-210: A8.1
Channel separation	§ 15.247 (a) (1)	RSS-210: A8.1
No. of hopping frequencies	§ 15.247 (a) (1) (iii)	RSS-210: A8.1
Antenna requirement	§ 15.203 / 15.204	RSS-Gen: 7.1.2

Digital Apparatus:

Measurement	FCC reference	IC reference
Conducted Emissions(AC Power Line)	§15.107	ICES-003
Spurious Radiated Emissions	§15.109	ICES-003

Setup Drawings



Remark: Depending on the frequency range suitable antenna types, attenuators or preamplifiers are used.

Setup in the Anechoic chamber:

Measurements below 1 GHz: Semi-anechoic, conducting ground plane.

Measurements above 1 GHz: Fully-anechoic, absorbers on all surfaces



6 Index

1	Administrative Data	2
1.1	Project Data	2
1.2	Applicant Data	2
1.3	Test Laboratory Data	2
1.4	Signature of the Testing Responsible	3
1.5	Signature of the Accreditation Responsible	3
2	Test Object Data	3
2.1	General OUT Description	3
2.2	Detailed Description of OUT Samples	4
2.3	OUT Features	6
2.4	Setups used for Testing	6
3	Results	7
3.1	General	7
3.2	List of the Applicable Body	7
3.3	List of Test Specification	7
3.4	Summary	8
3.5	Detailed Results	12
3.5.1	15c.1 Conducted emissions (AC power line) §15.207	12
3.5.2	15c.2 Spurious radiated emissions §15.247 (d), §15.35 (b), §15.209	14
3.5.3	15c.3 Occupied bandwidth §15.247 (a) (1)	34
3.5.4	15c.4 Peak power output §15.247 (b) (1)	52
3.5.5	15c.5 Spurious RF conducted emissions §15.247 (d)	70
3.5.6	15c.6 Band edge compliance §15.247 (d)	82
3.5.7	15c.7 Dwell time §15.247 (a) (1) (iii)	92
3.5.8	15c.8 Channel separation §15.247 (a) (1)	94
3.5.9	15c.9 Number of hopping frequencies §15.247 (a) (1) (iii)	101
4	Test Equipment Details	104
4.1	List of Used Test Equipment	104



Reference: ODE_MJP_KYOCE_1207_FCCa
According to
Title 47 CFR chapter I part 15 subpart C

5 Annex	111
.....
5.1 Additional Information for Report	111
.....
6 Index	121
.....