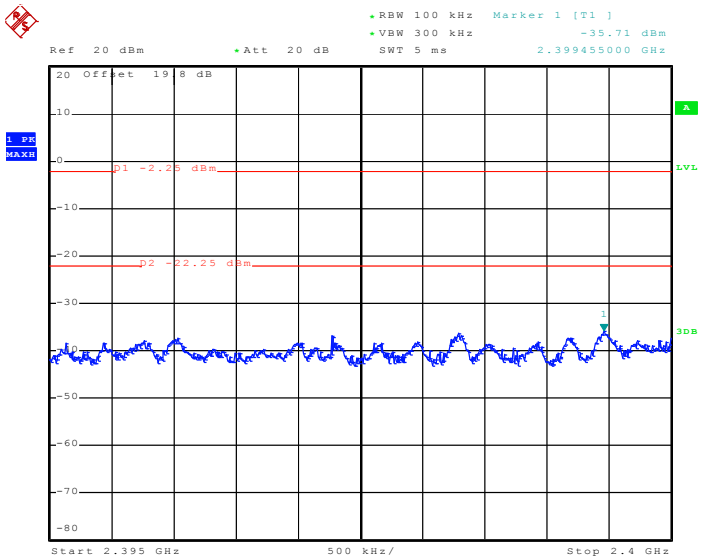
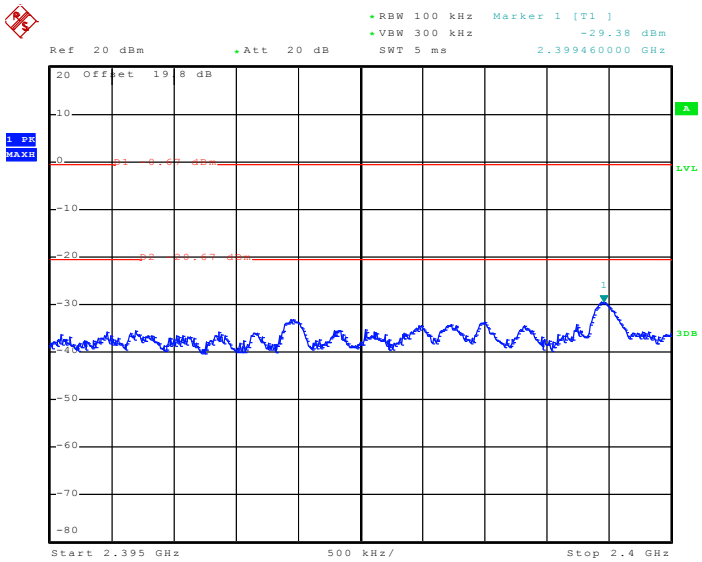
Low Band Edge Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B(B)



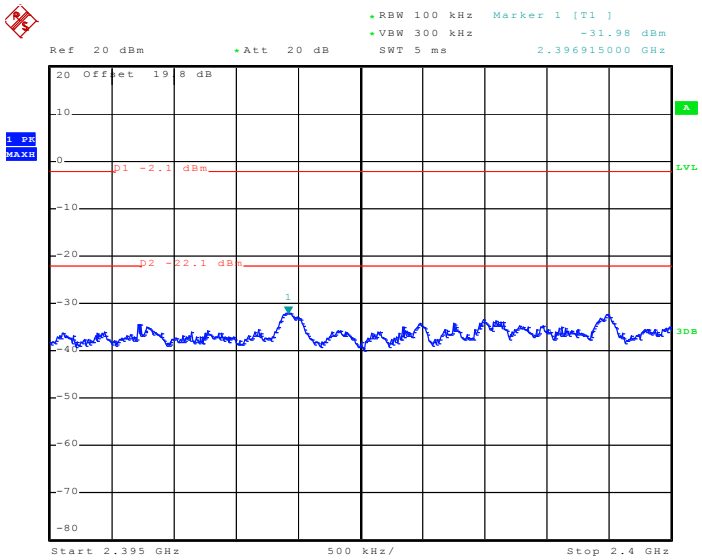
Date: 17.FEB.2011 23:57:26

Low Band Edge Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(A)



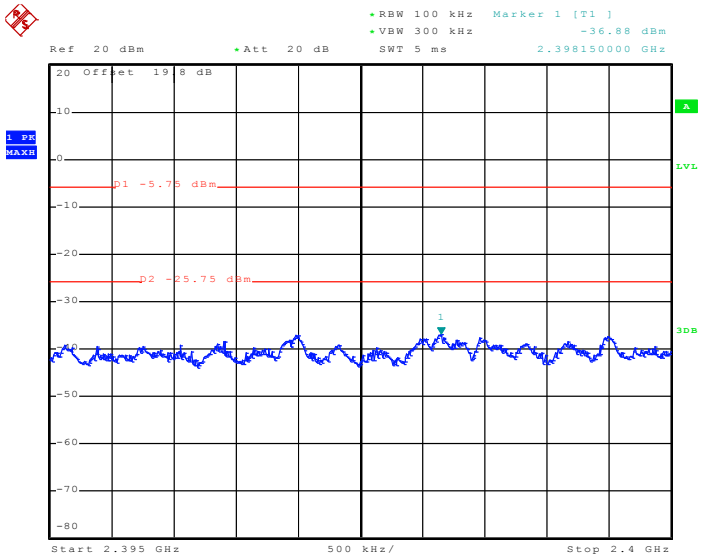
Date: 18.FEB.2011 05:12:55

Low Band Edge Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(B)



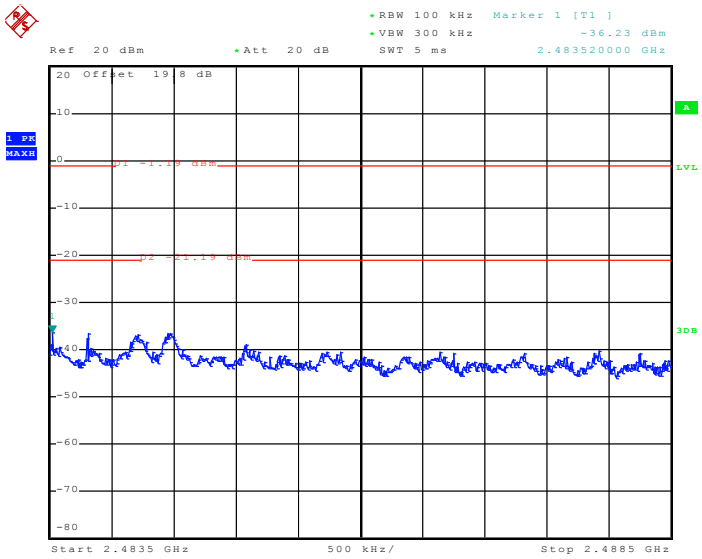
Date: 18.FEB.2011 04:31:34

Low Band Edge Plot on 802.11n (BW 40MHz) Channel 03 – Chain A+B+C(C)



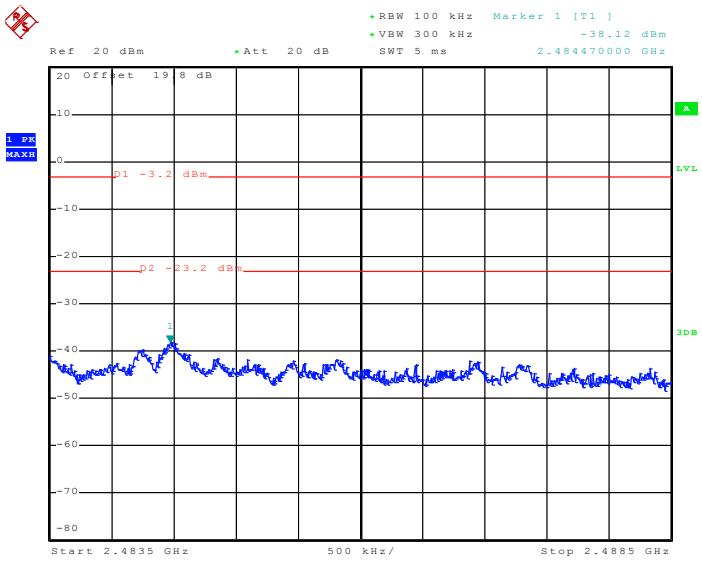
Date: 28.FEB.2011 20:28:12

High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A



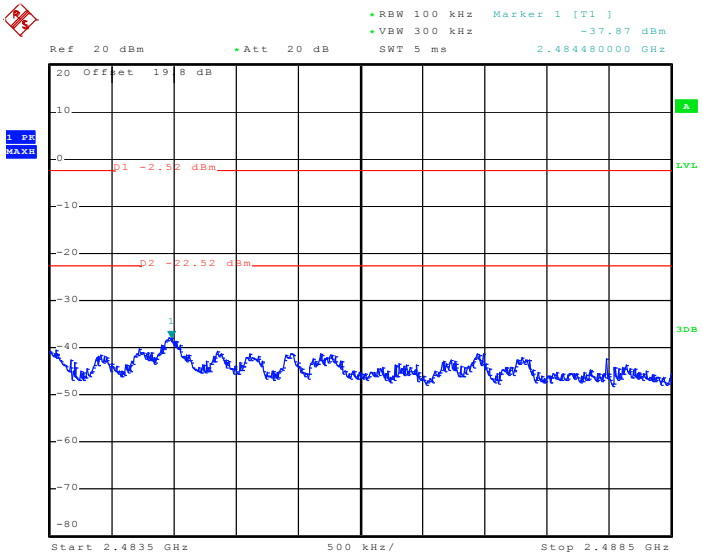
Date: 17.FEB.2011 22:08:34

High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B(A)



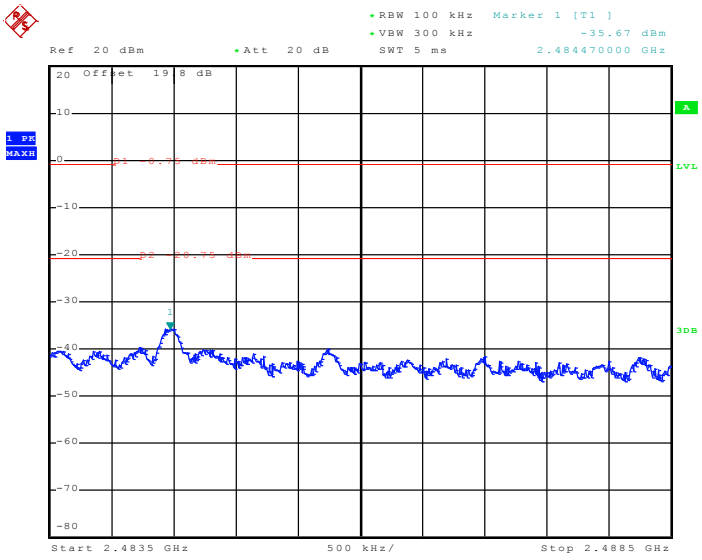
Date: 18.FEB.2011 01:20:35

High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B(B)



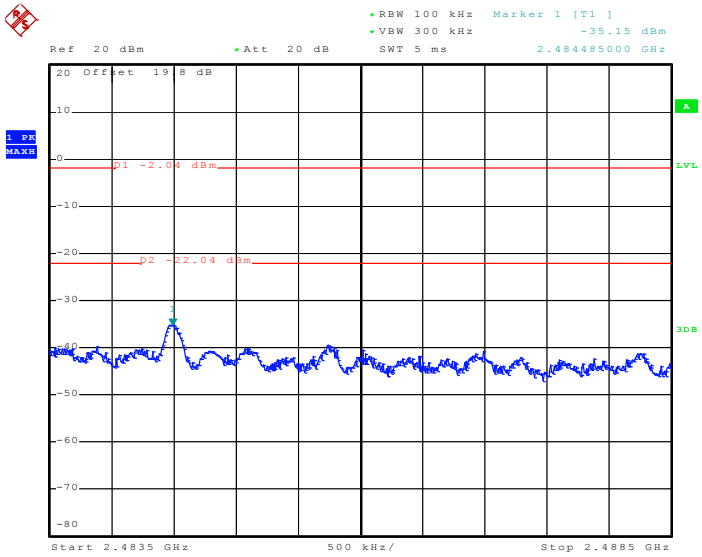
Date: 28.FEB.2011 20:08:51

High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B+C(A)



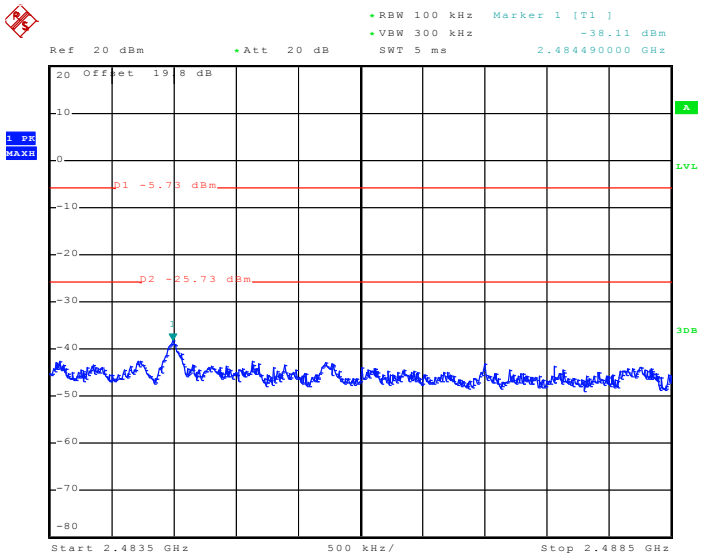
Date: 18.FEB.2011 05:43:00

High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B+C(B)



Date: 18.FEB.2011 04:55:24

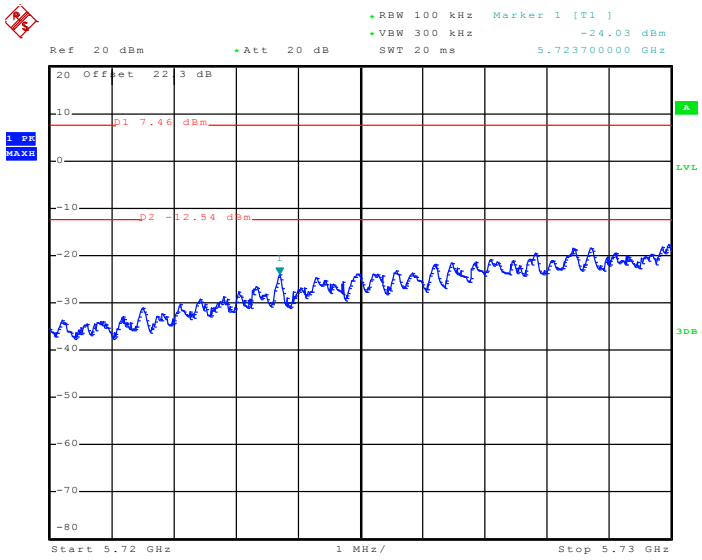
High Band Edge Plot on 802.11n (BW 40MHz) Channel 09 – Chain A+B+C(C)



Date: 18.FEB.2011 04:15:58

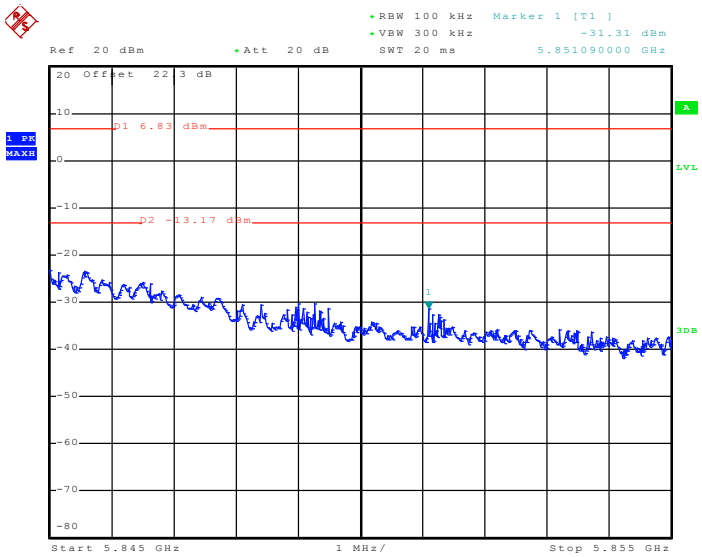
Test Mode :	Mode 13 and 15	**Temperature :**	26~29℃
Test Band :	802.11a	**Relative Humidity :**	48~51%
Test Channel :	149 and 165	**Test Engineer :**	Alan Liu

Low Band Edge Plot on 802.11a Channel 149 – Chain C



Date: 23.FEB.2011 01:51:35

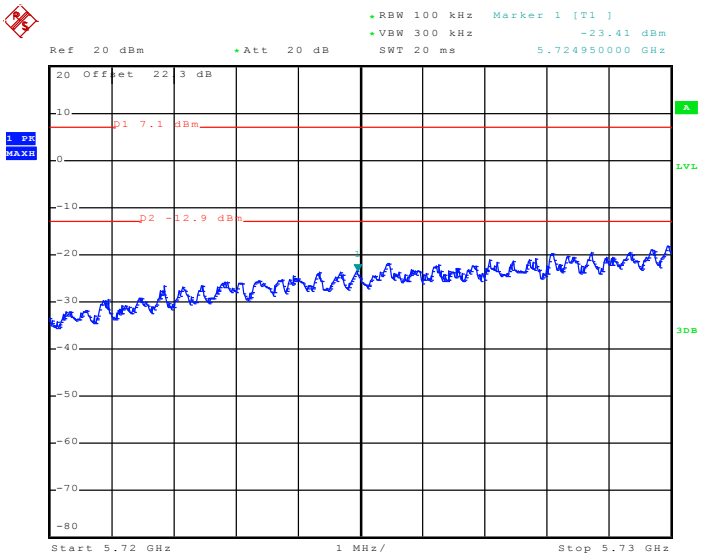
High Band Edge Plot on 802.11a Channel 165 – Chain C



Date: 23.FEB.2011 02:24:43

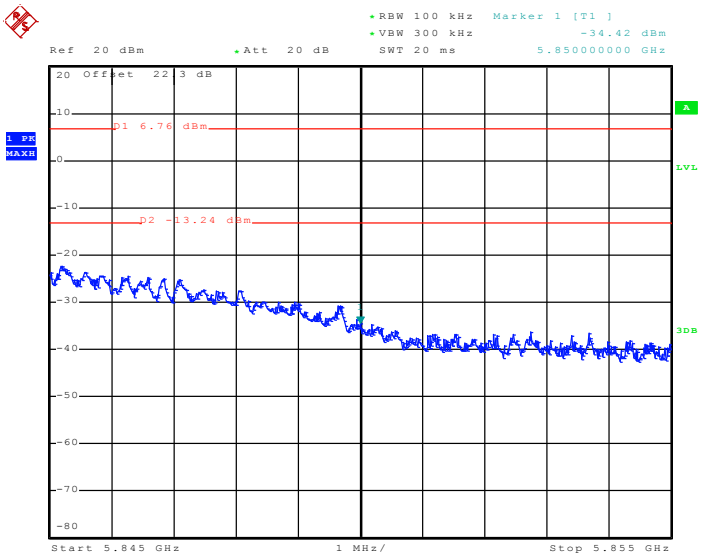
Test Mode :	Mode 16 and 18	Temperature :	26~29℃
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	48~51%
Test Channel :	149 and 165	Test Engineer :	Alan Liu

Low Band Edge Plot on 802.11n (BW 20MHz) Channel 149 – Chain C



Date: 23.FEB.2011 02:38:08

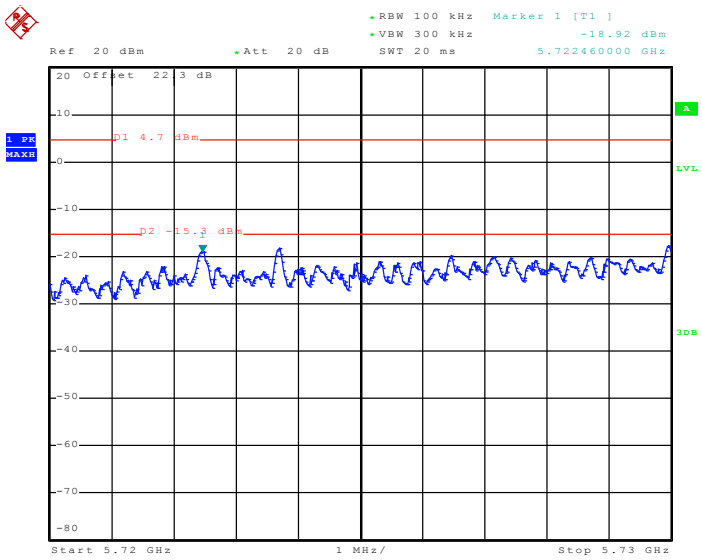
High Band Edge Plot on 802.11n (BW 20MHz) Channel 165 – Chain C



Date: 23.FEB.2011 03:06:32

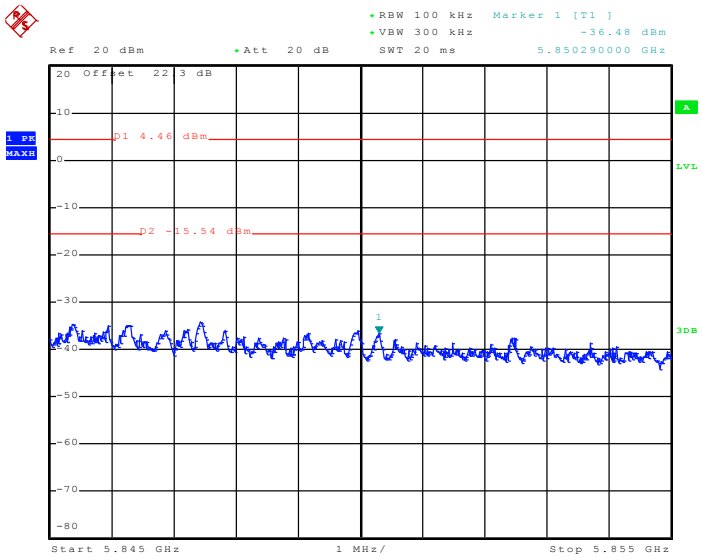
Test Mode :	Mode 19 and 20	**Temperature :**	26~29℃
Test Band :	802.11n (BW 40MHz)	**Relative Humidity :**	48~51%
Test Channel :	151 and 159	**Test Engineer :**	Alan Liu

Low Band Edge Plot on 802.11n (BW 40MHz) Channel 151 – Chain C



Date: 23.FEB.2011 03:23:47

High Band Edge Plot on 802.11n (BW 40MHz) Channel 159 – Chain C



Date: 23.FEB.2011 03:36:14

3.4 Spurious Emission Measurement

3.4.1 Limit of Spurious Emission Measurement

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

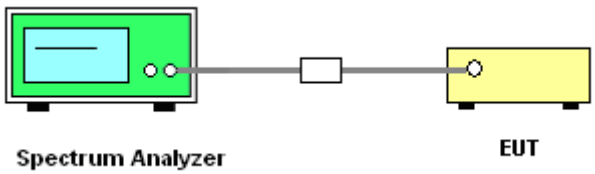
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set RBW = 100 kHz, Video bandwidth (VBW) > RBW, scan up through 10th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

3.4.4 Test Setup

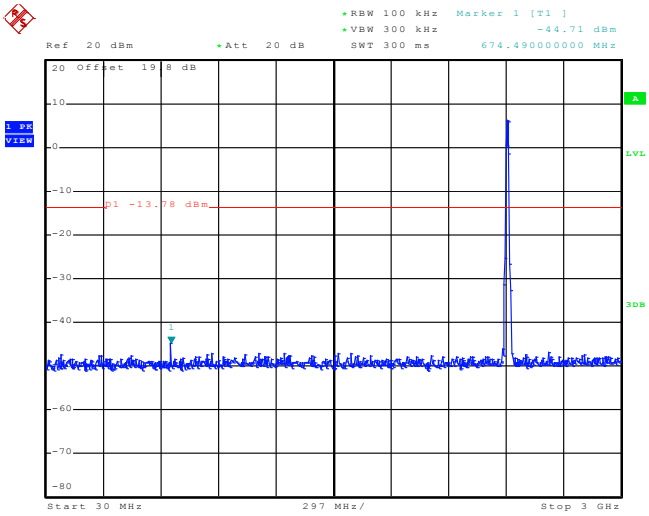


3.4.5 Test Result

Test Mode :	Mode 1 2 3	Temperature :	26~29℃
Test Band :	802.11b	Relative Humidity :	48~51%
Test Channel :	01, 06, 11	Test Engineer :	Alan Liu

Mode 1: Conducted Spurious Emission Plot on

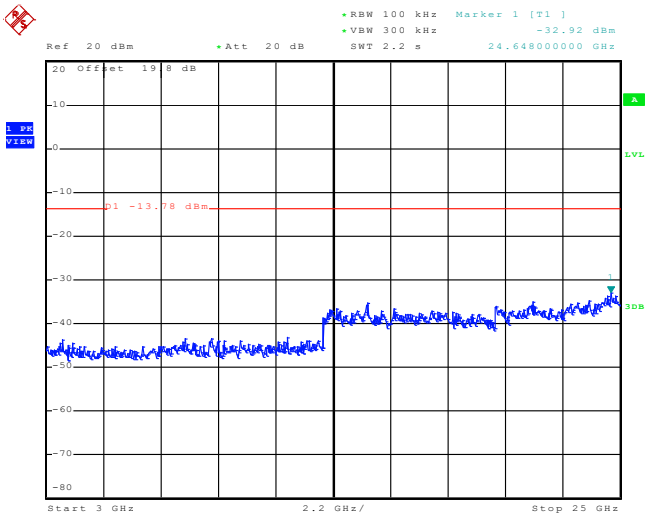
802.11b Channel 01 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 17:51:15

Mode 1: Conducted Spurious Emission Plot on

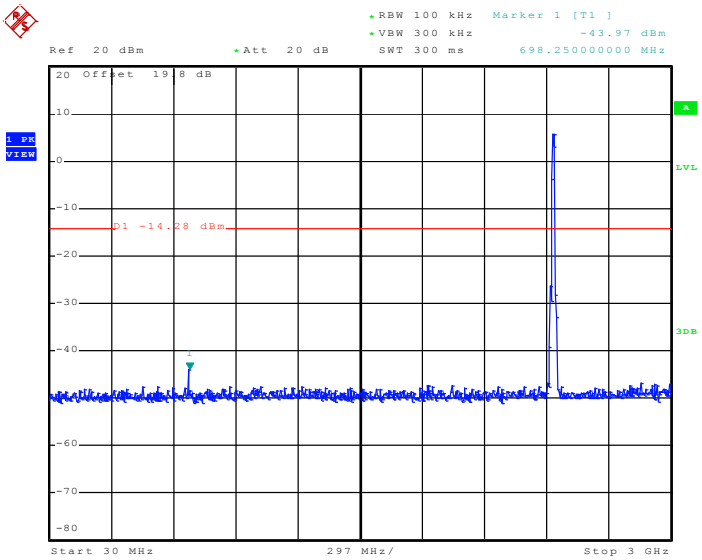
802.11b Channel 01 between 3 GHz~25 GHz - Chain A



Date: 17.FEB.2011 17:51:33

Mode 2: Conducted Spurious Emission Plot on

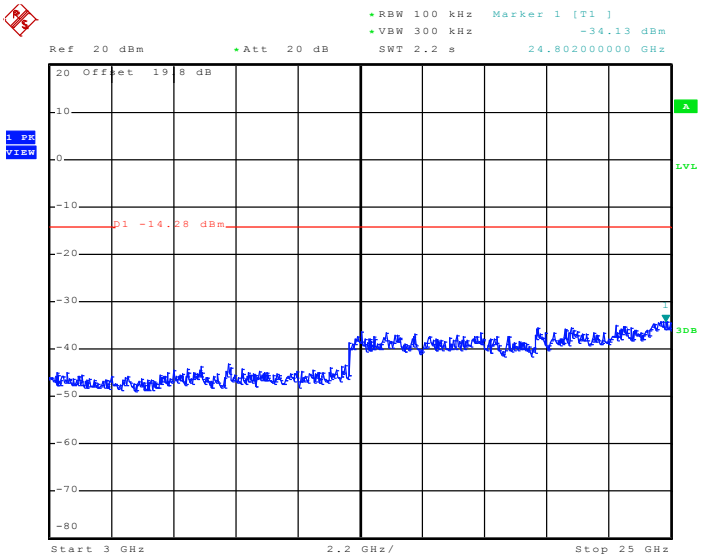
802.11b Channel 06 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 18:23:16

Mode 2: Conducted Spurious Emission Plot on

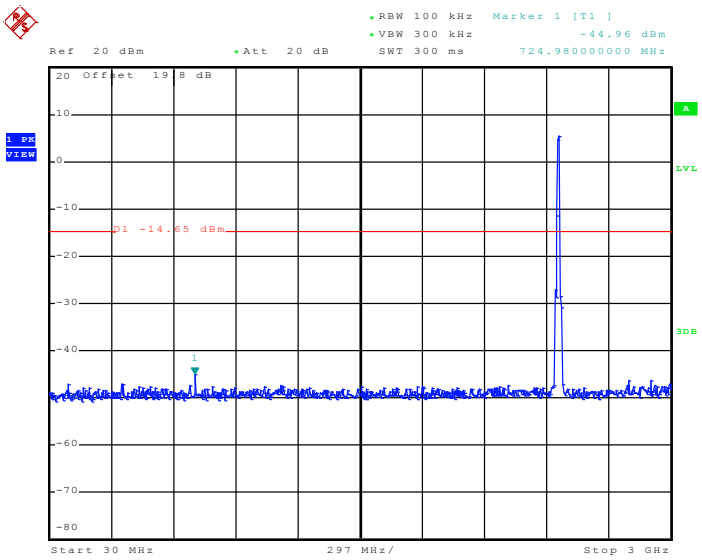
802.11b Channel 06 between 3 GHz~25 GHz - Chain A



Date: 17.FEB.2011 18:23:44

Mode 3: Conducted Spurious Emission Plot on

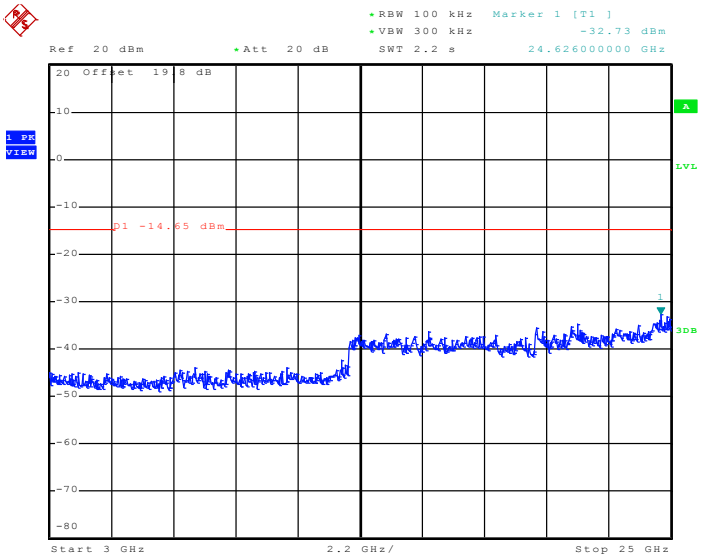
802.11b Channel 11 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 19:07:48

Mode 3: Conducted Spurious Emission Plot on

802.11b Channel 11 between 3 GHz~25 GHz - Chain A

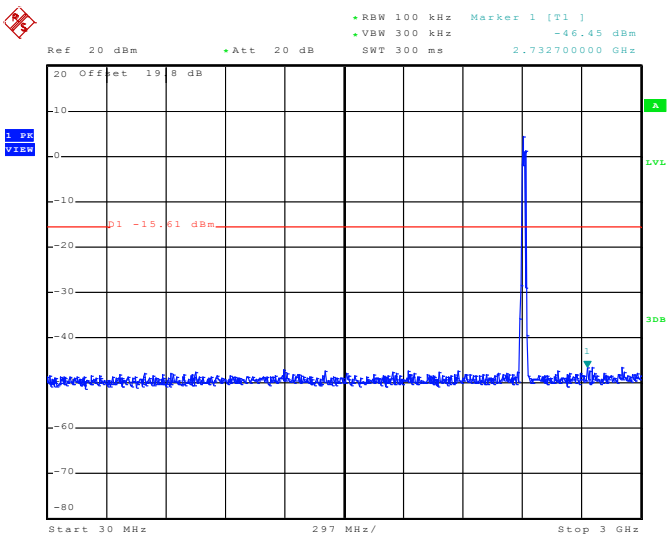


Date: 17.FEB.2011 19:08:08

Test Mode :	Mode 4, 5, 6	Temperature :	26~29℃
Test Band :	802.11g	Relative Humidity :	48~51%
Test Channel :	01, 06, 11	Test Engineer :	Alan Liu

Mode 4: Conducted Spurious Emission Plot on

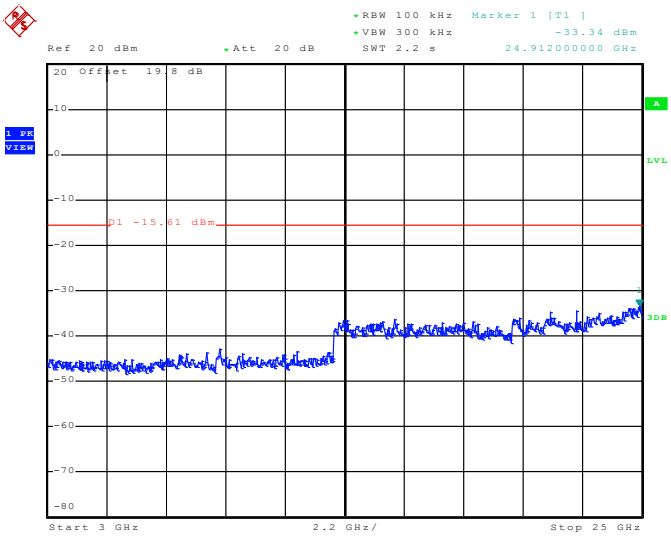
802.11g Channel 01 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 19:25:47

Mode 4: Conducted Spurious Emission Plot on

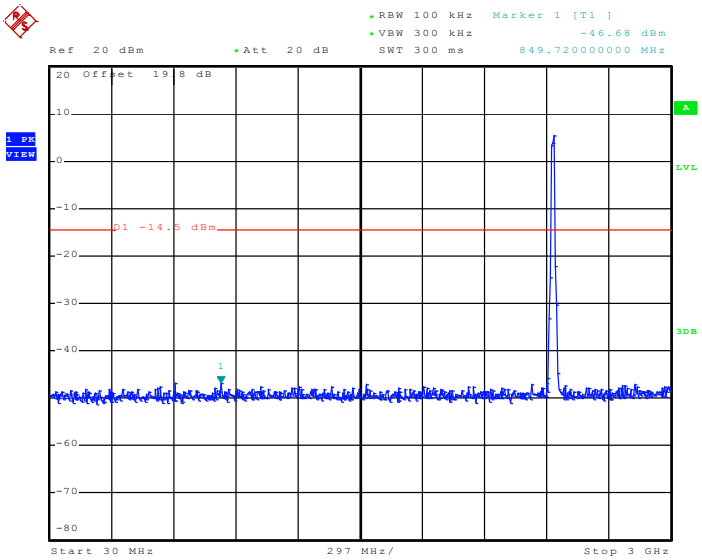
802.11g Channel 01 between 3 GHz~25 GHz - Chain B



Date: 17.FEB.2011 19:26:05

Mode 5: Conducted Spurious Emission Plot on

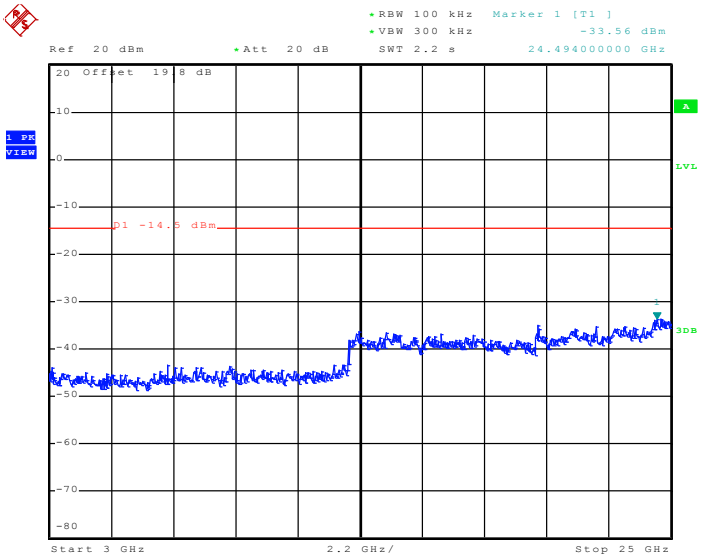
802.11g Channel 06 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 19:40:31

Mode 5: Conducted Spurious Emission Plot on

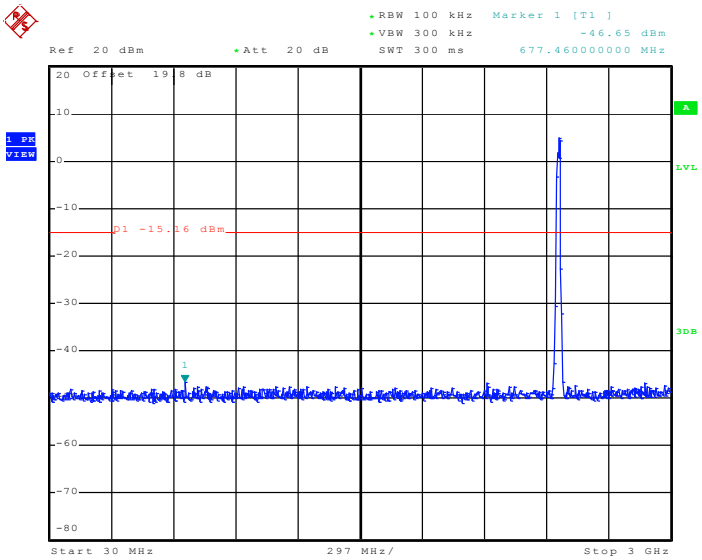
802.11g Channel 06 between 3 GHz~25 GHz - Chain B



Date: 17.FEB.2011 19:40:49

Mode 6: Conducted Spurious Emission Plot on

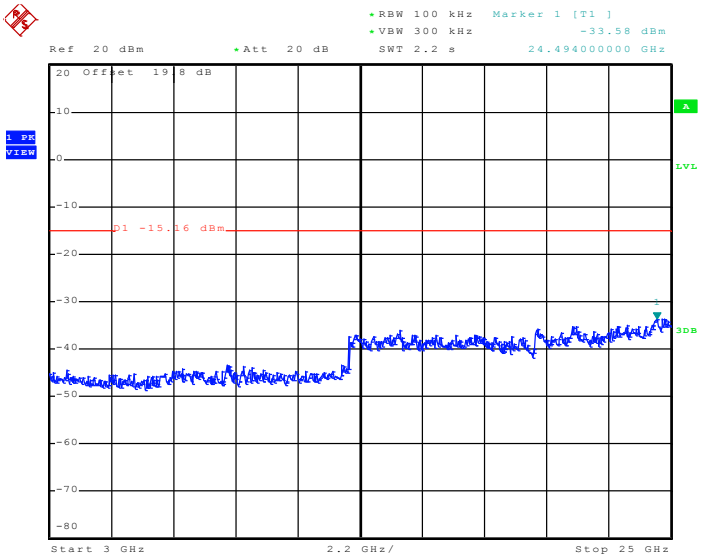
802.11g Channel 11 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 19:56:52

Mode 6: Conducted Spurious Emission Plot on

802.11g Channel 11 between 3 GHz~25 GHz - Chain B

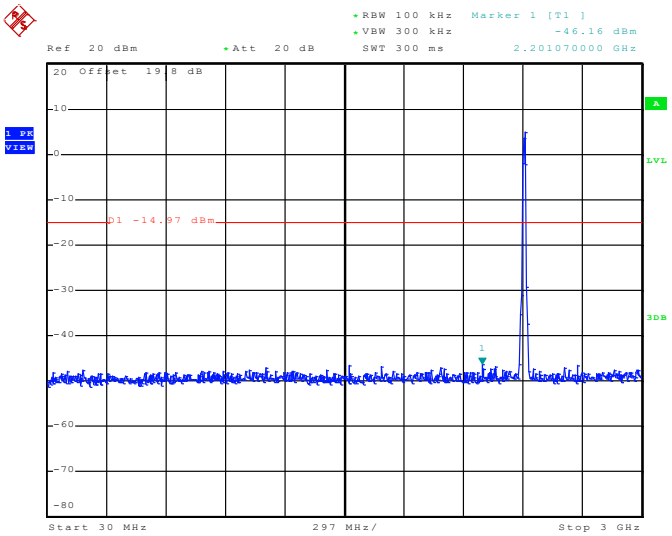


Date: 17.FEB.2011 19:57:10

Test Mode :	Mode 7, 8, 9	Temperature :	26~29℃
Test Band :	802.11n (BW 20MHz)	Relative Humidity :	48~51%
Test Channel :	01, 06, 11	Test Engineer :	Alan Liu

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

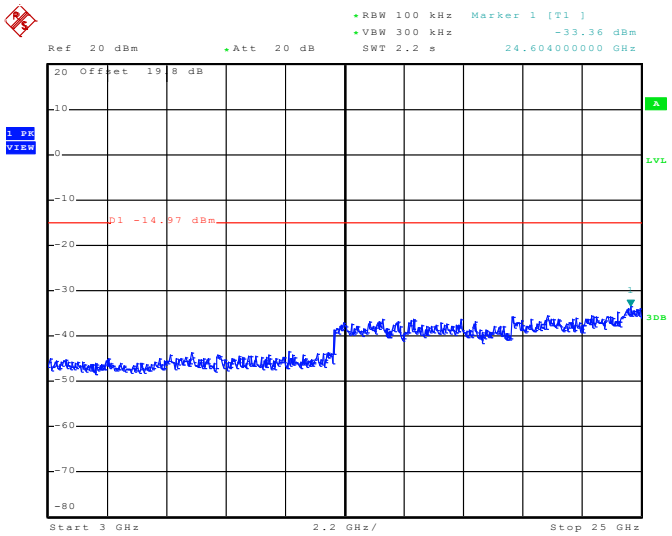
Channel 01 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 20:26:47

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

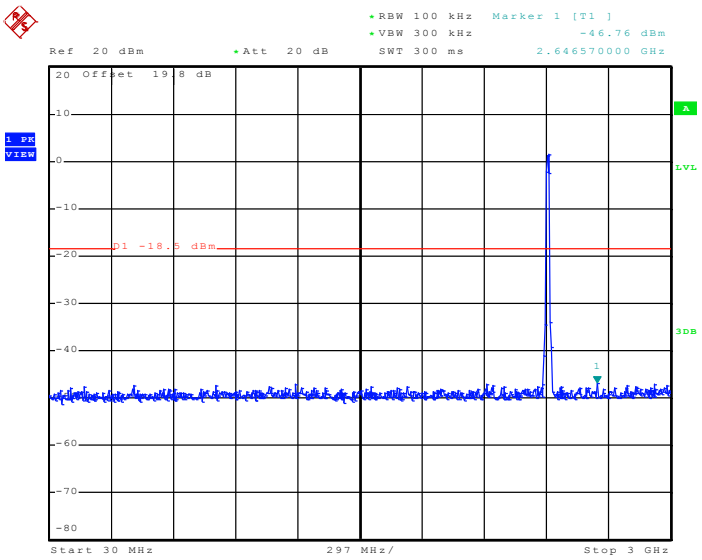
Channel 01 between 3 GHz ~25 GHz – Chain B



Date: 17.FEB.2011 20:27:05

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

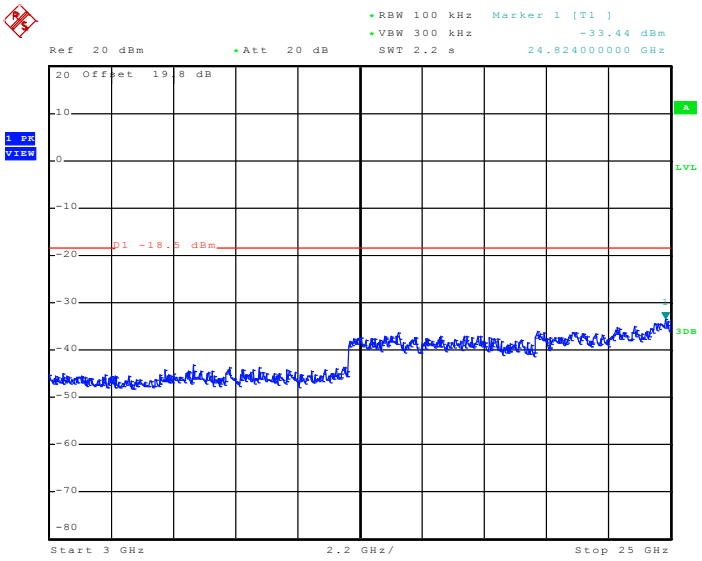
Channel 01 between 30 MHz~3 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:28:07

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

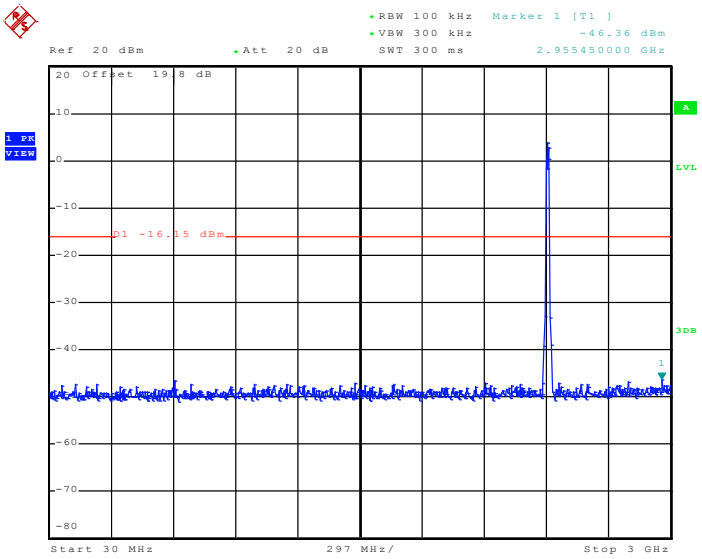
Channel 01 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:28:25

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

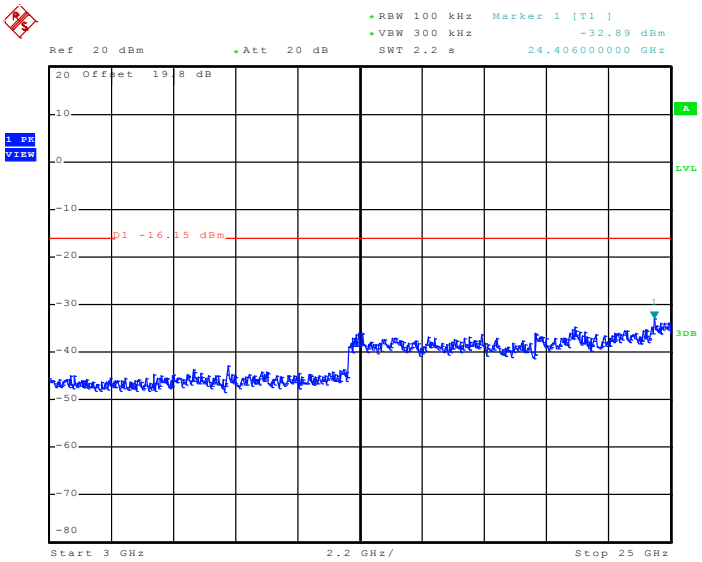
Channel 01 between 30 MHz~3 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:15:20

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

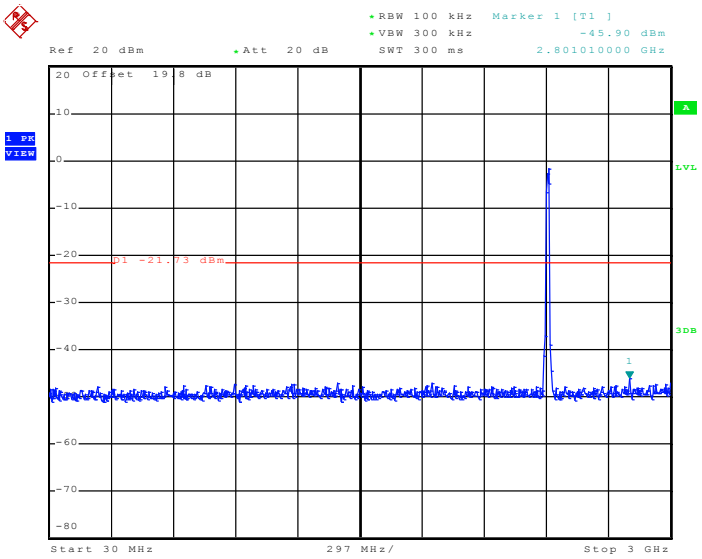
Channel 01 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:15:38

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

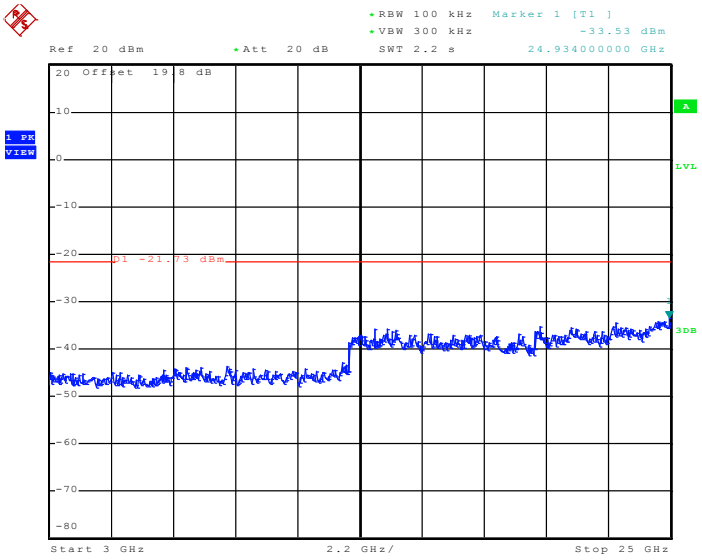
Channel 01 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 01:40:54

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

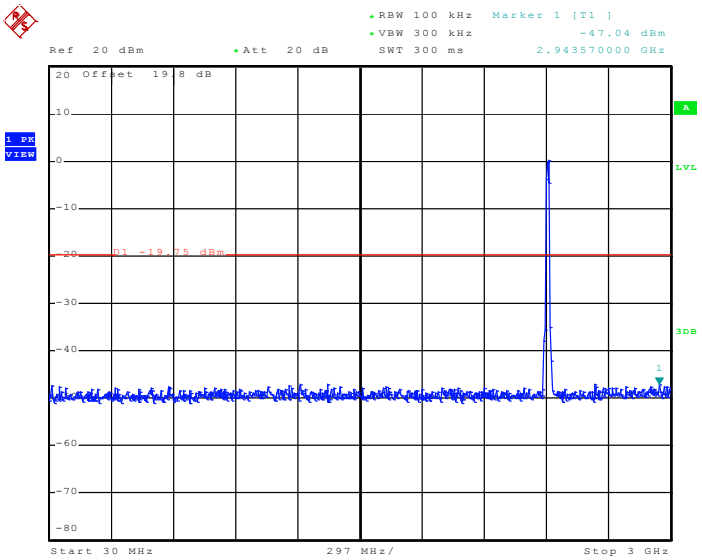
Channel 01 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 01:41:12

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

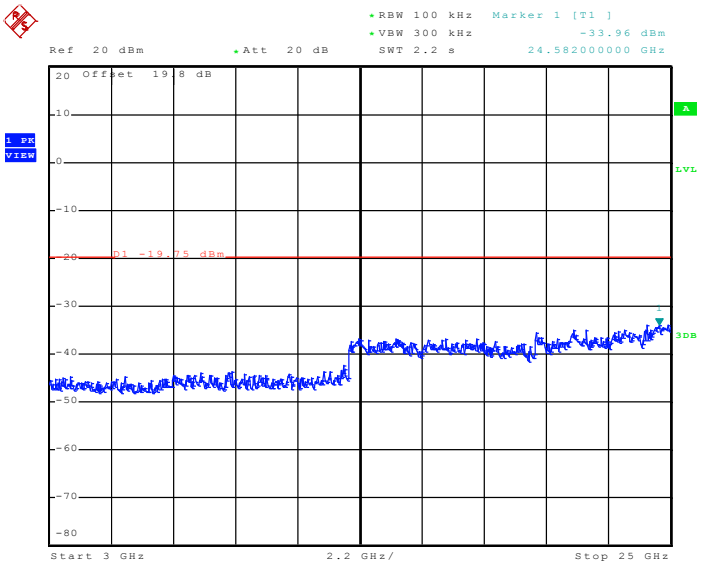
Channel 01 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:24:19

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

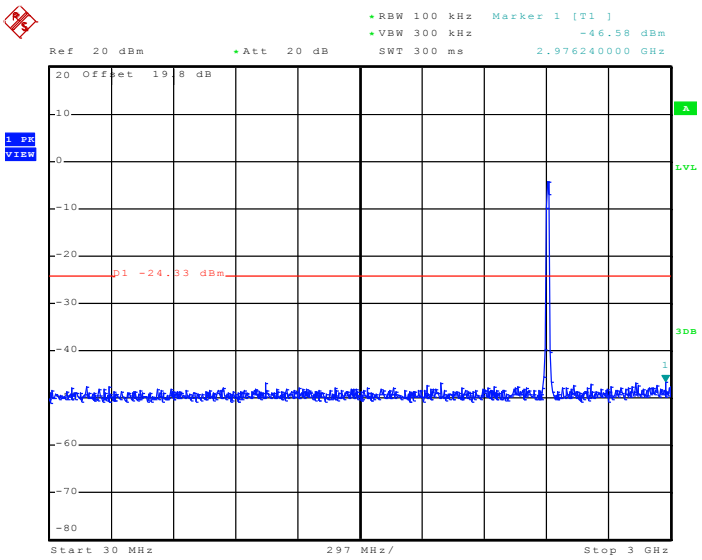
Channel 01 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:24:37

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

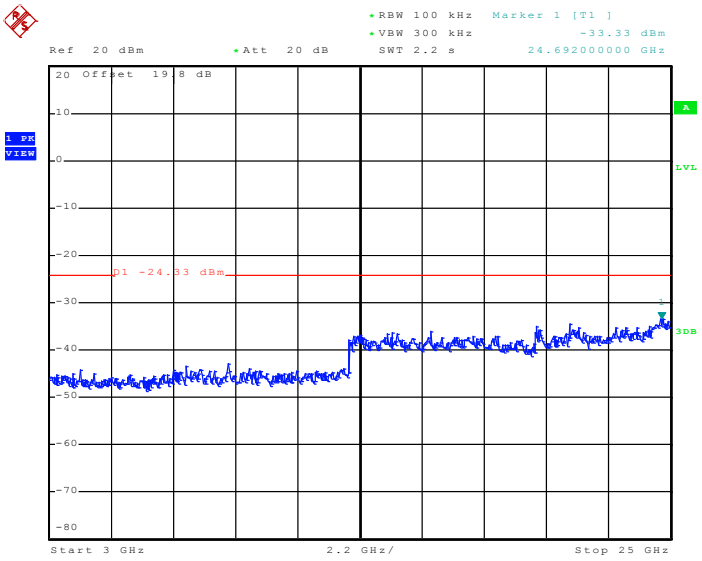
Channel 01 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:09:29

Mode 7: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

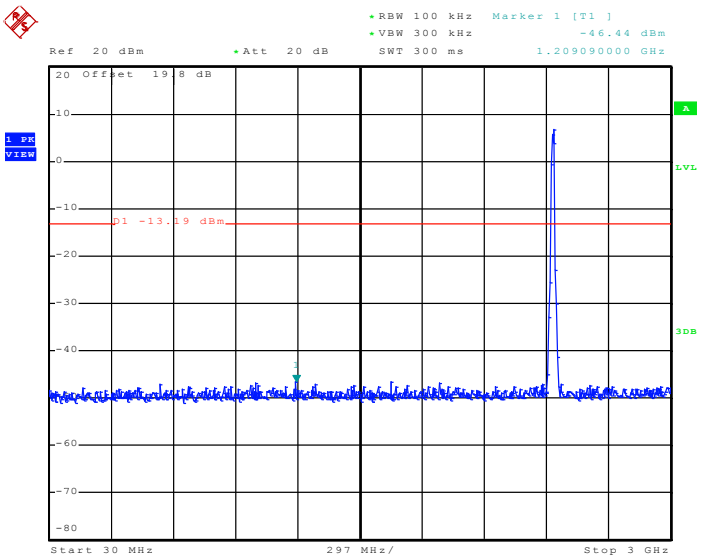
Channel 01 between 3 GHz ~25 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:09:47

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

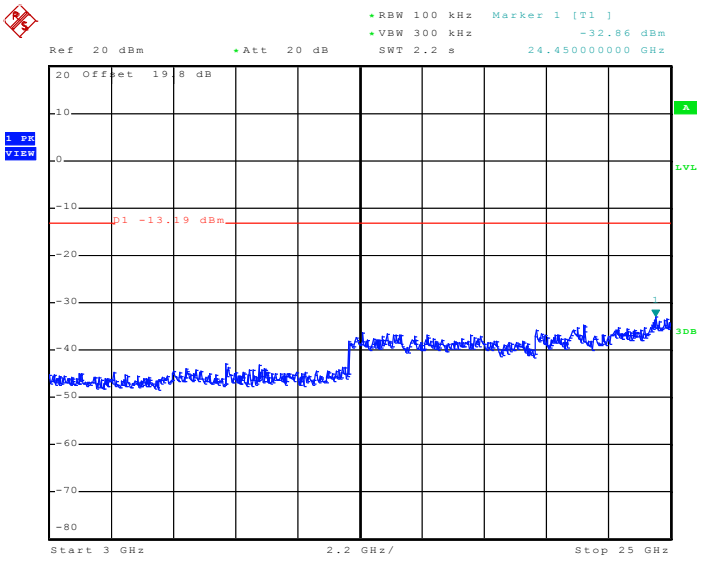
Channel 06 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 20:52:20

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

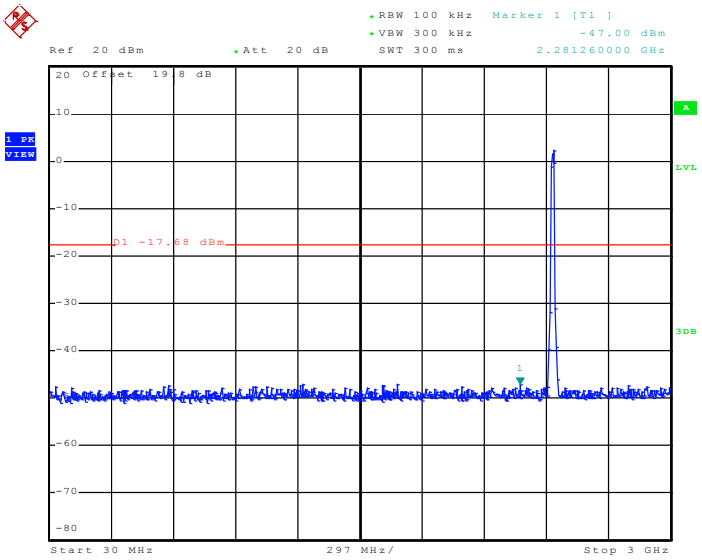
Channel 06 between 3 GHz ~25 GHz – Chain B



Date: 17.FEB.2011 20:52:38

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

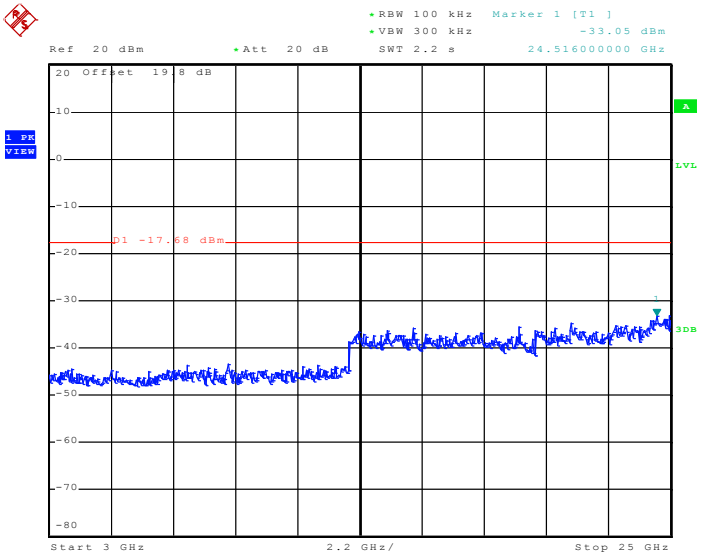
Channel 06 between 30 MHz~3 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:41:37

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

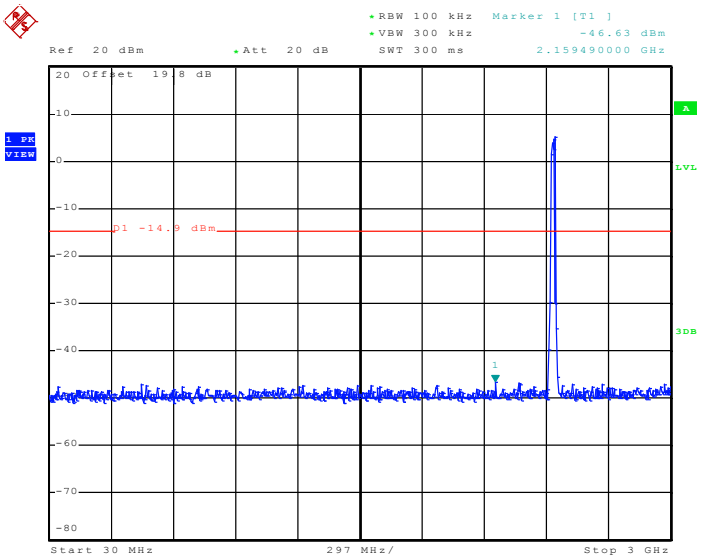
Channel 06 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:41:55

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

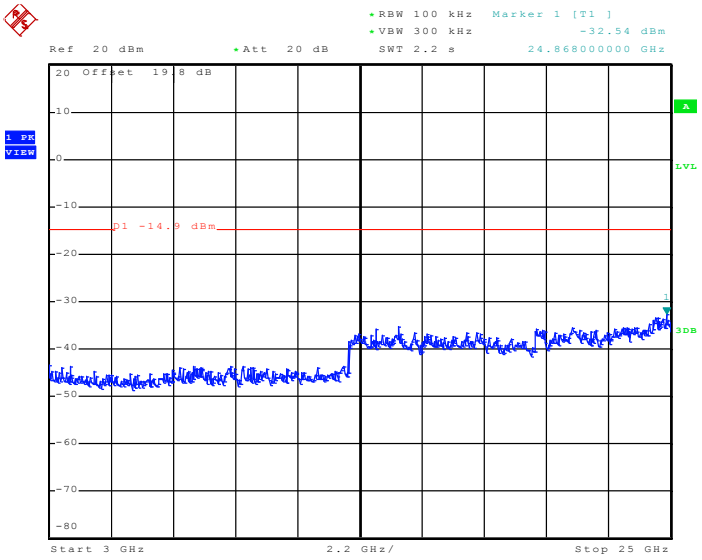
Channel 06 between 30 MHz~3 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:28:20

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

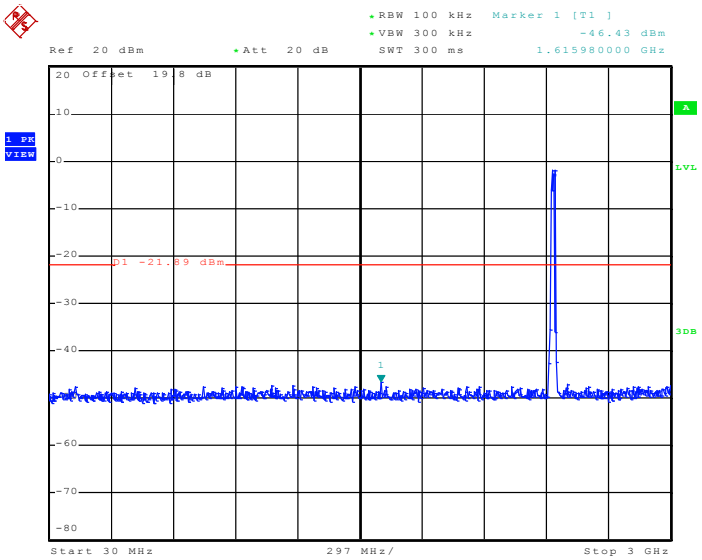
Channel 06 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:28:38

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

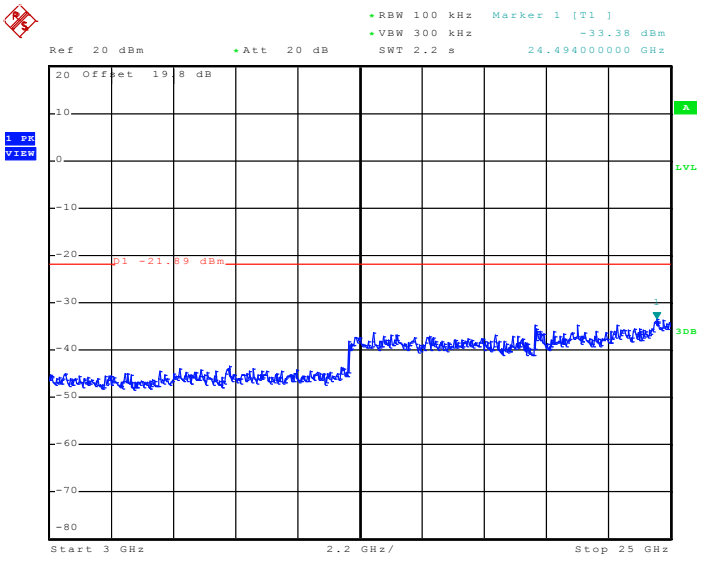
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 01:52:48

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

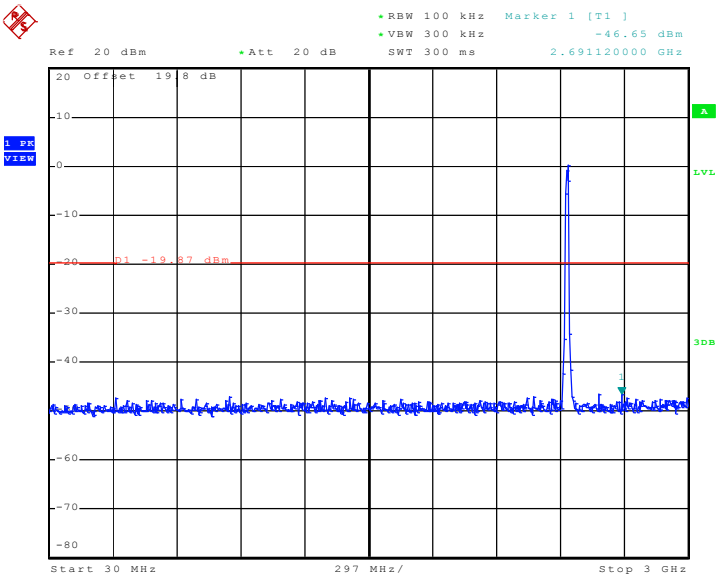
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 01:53:06

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

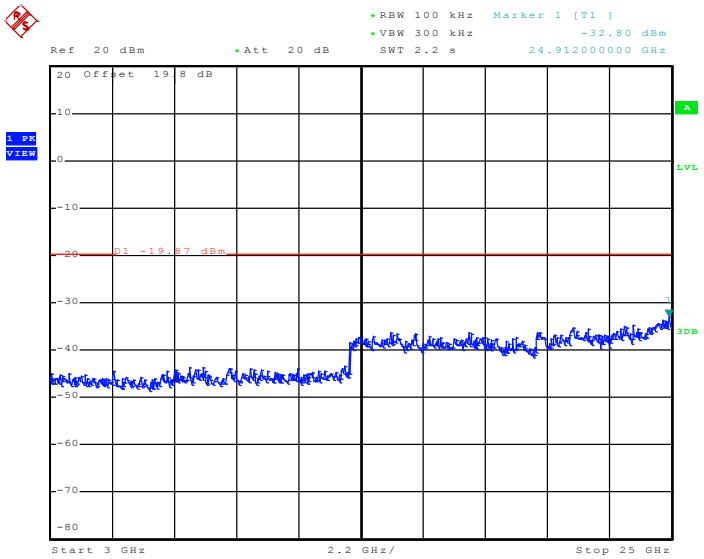
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:36:41

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

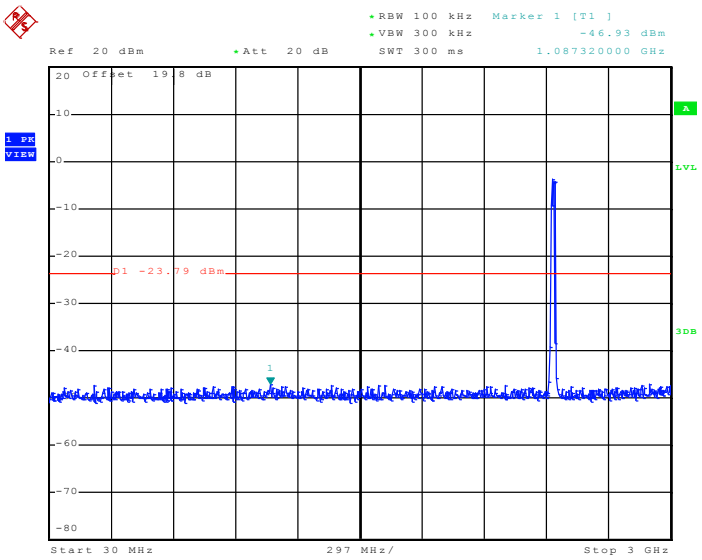
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:36:59

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

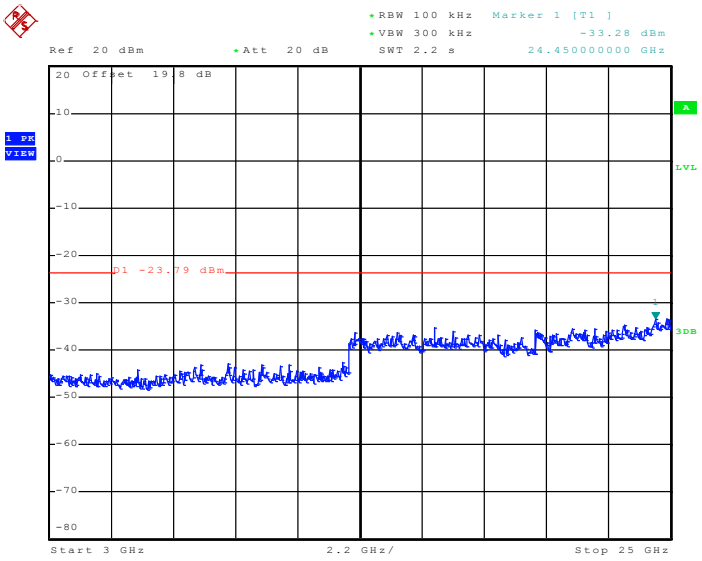
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:21:33

Mode 8: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

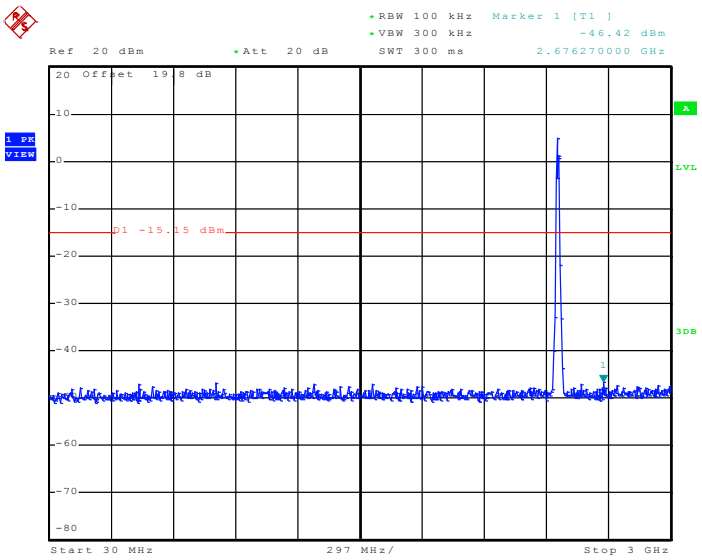
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:21:51

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

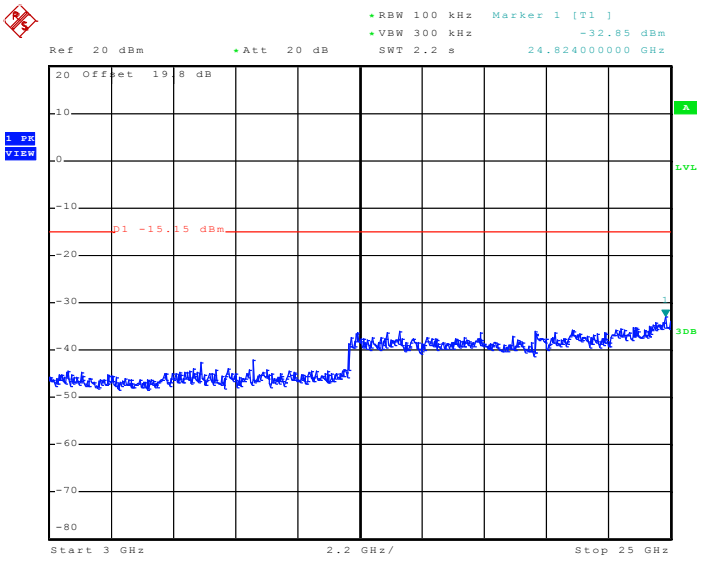
Channel 11 between 30 MHz~3 GHz - Chain B



Date: 17.FEB.2011 21:06:24

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

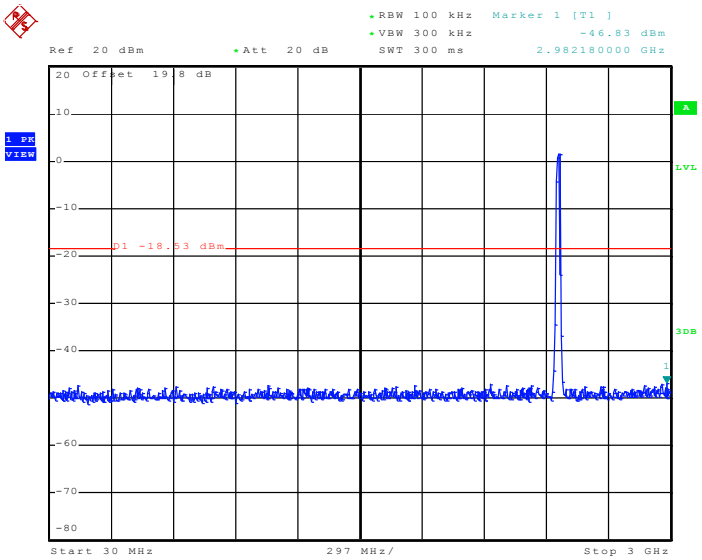
Channel 11 between 3 GHz ~25 GHz – Chain B



Date: 17.FEB.2011 21:06:43

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

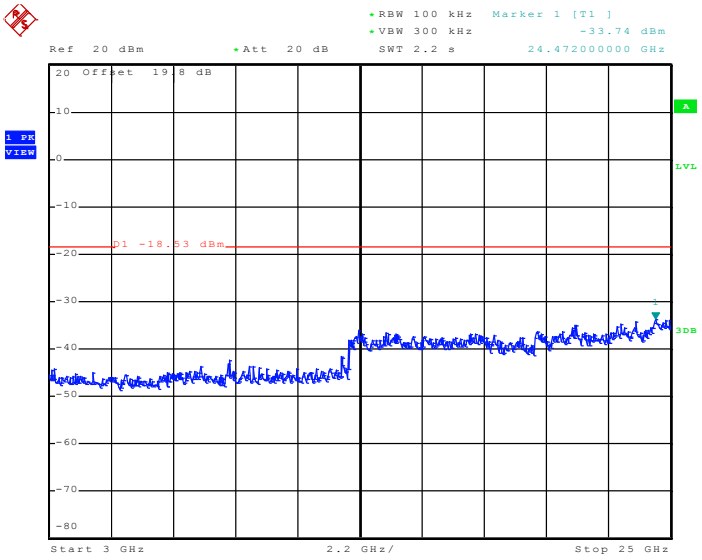
Channel 11 between 30 MHz~3 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:55:17

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

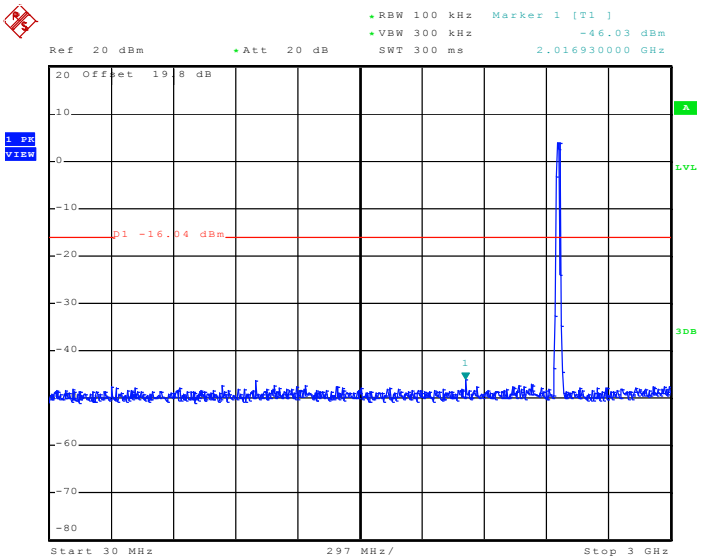
Channel 11 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 17.FEB.2011 22:55:35

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

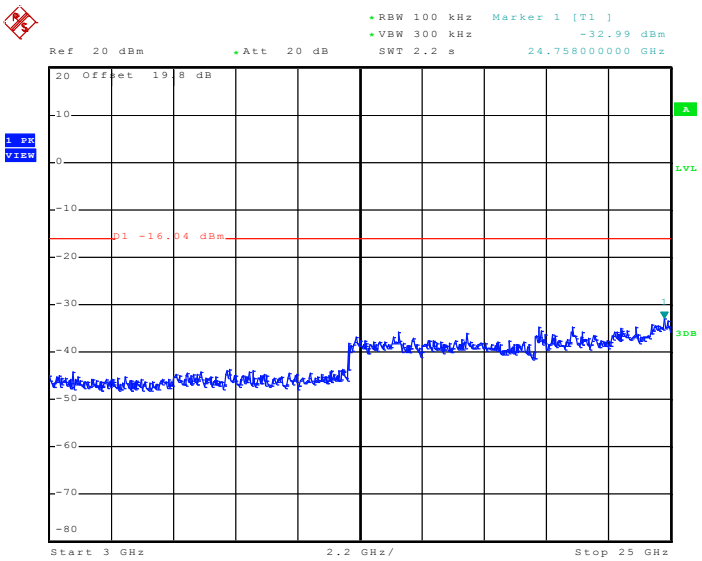
Channel 11 between 30 MHz~3 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:41:45

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

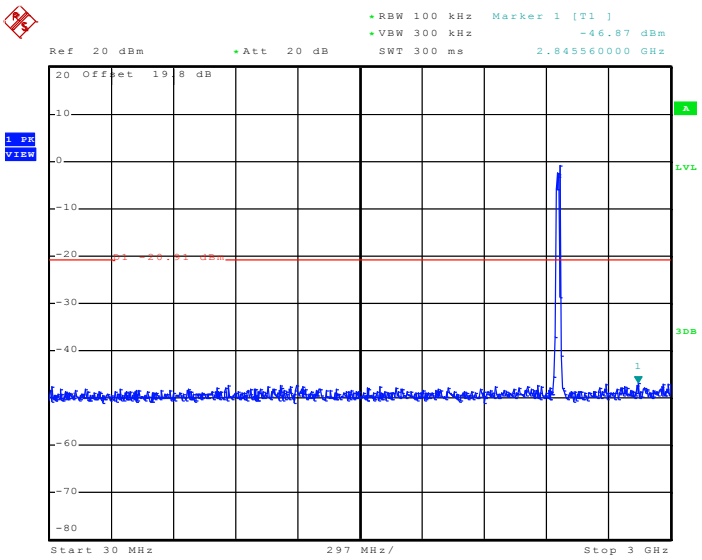
Channel 11 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 17.FEB.2011 23:42:03

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

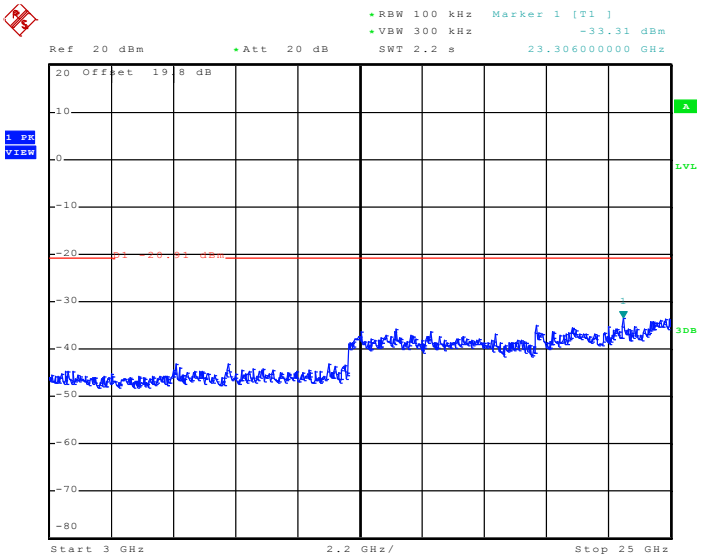
Channel 11 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 02:07:14

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

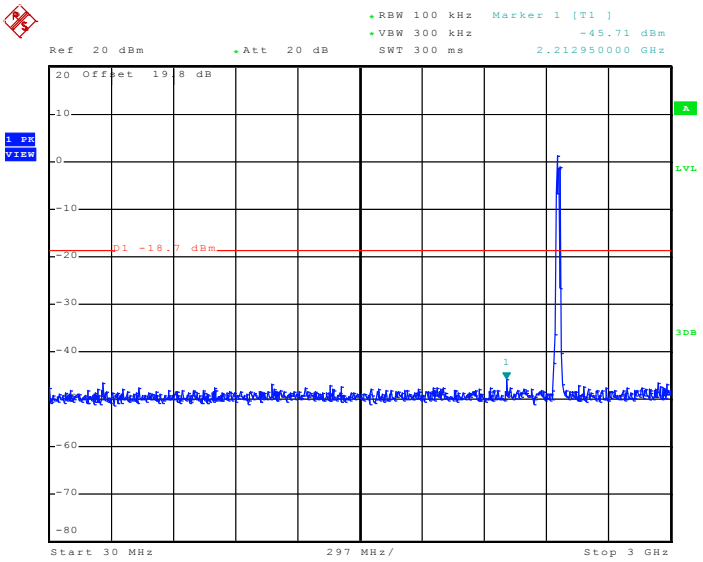
Channel 11 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 02:07:32

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

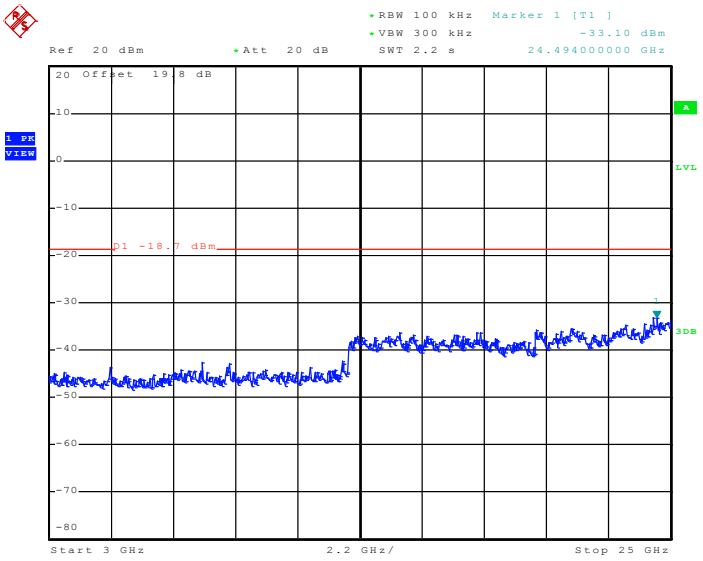
Channel 11 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:50:30

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

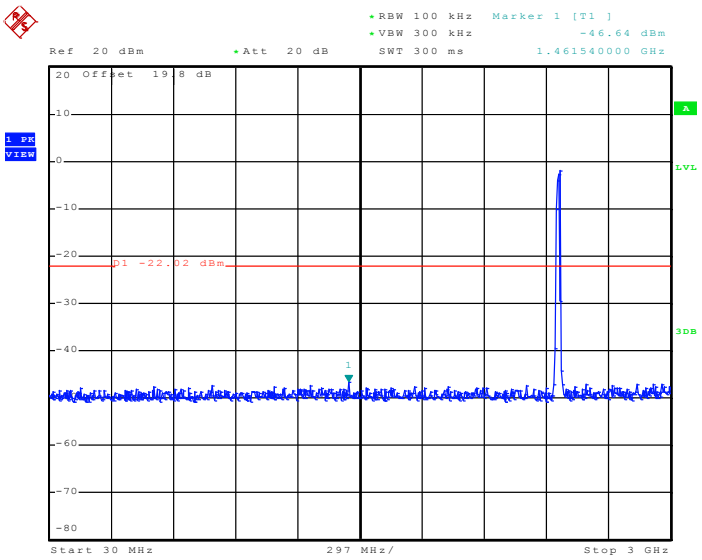
Channel 11 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 02:50:48

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

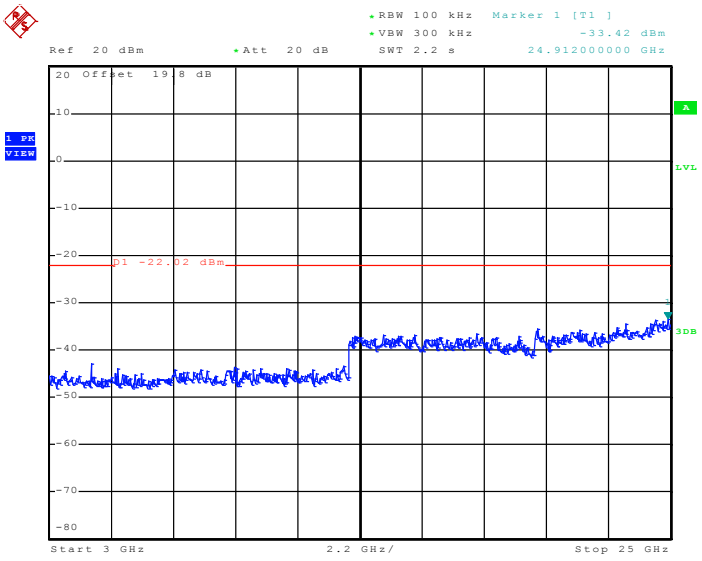
Channel 11 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:34:34

Mode 9: Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

Channel 11 between 3 GHz ~25 GHz - Chain A+B+C(C)

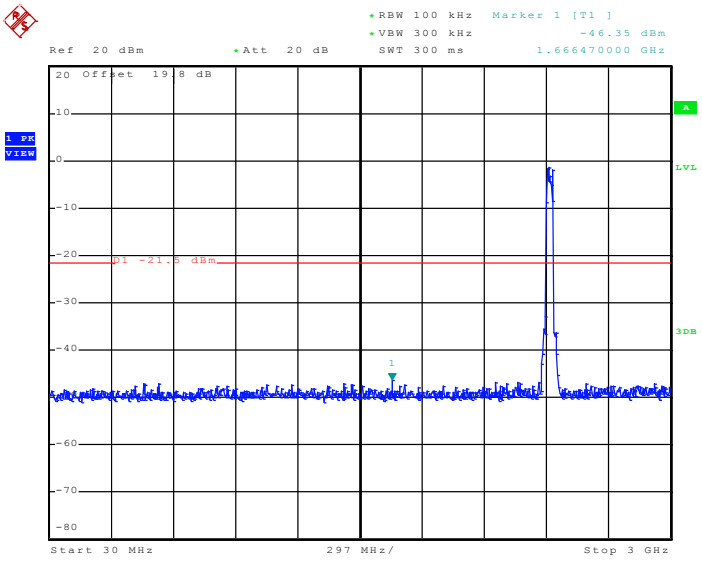


Date: 18.FEB.2011 03:34:52

Test Mode :	Mode 10, 11, 12	**Temperature :**	26~29℃
Test Band :	802.11n (BW 40MHz)	**Relative Humidity :**	48~51%
Test Channel :	03, 06, 09	**Test Engineer :**	Alan Liu

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

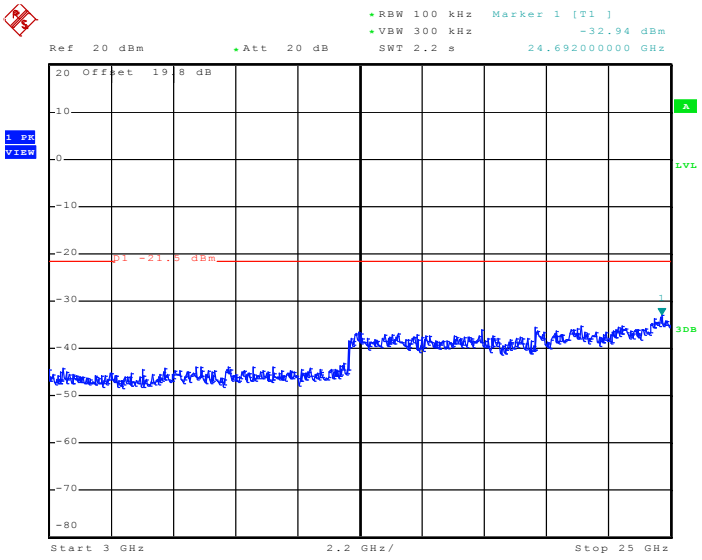
Channel 03 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 21:28:55

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

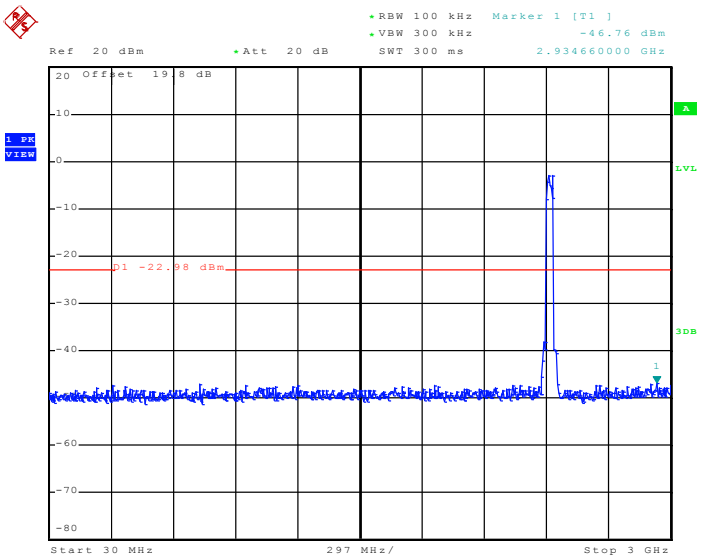
Channel 03 between 3 GHz ~25 GHz – Chain A



Date: 17.FEB.2011 21:29:13

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

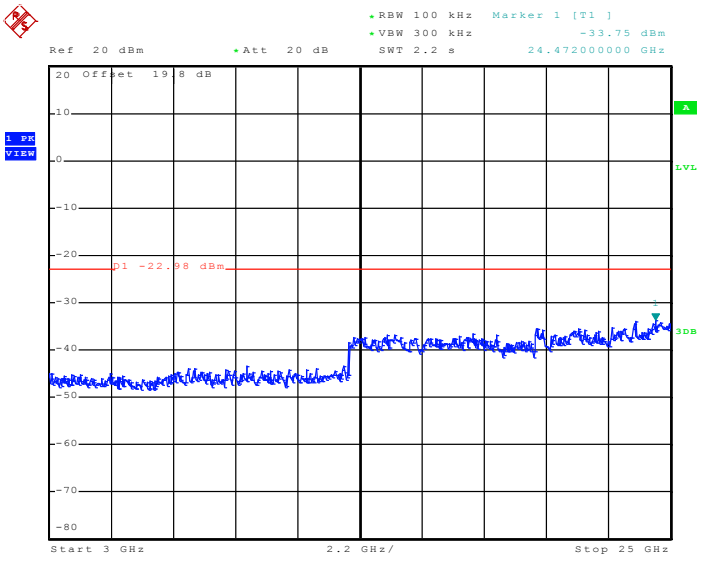
Channel 03 between 30 MHz~3 GHz - Chain A+B(A)



Date: 18.FEB.2011 00:54:31

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

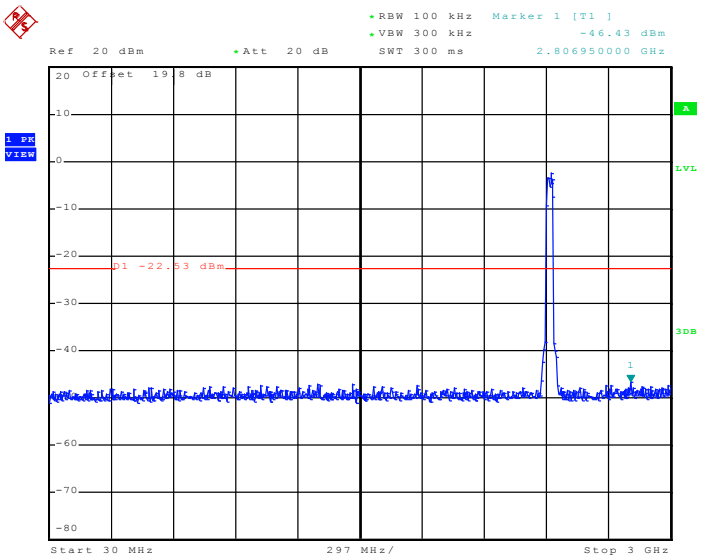
Channel 03 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 18.FEB.2011 00:54:49

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

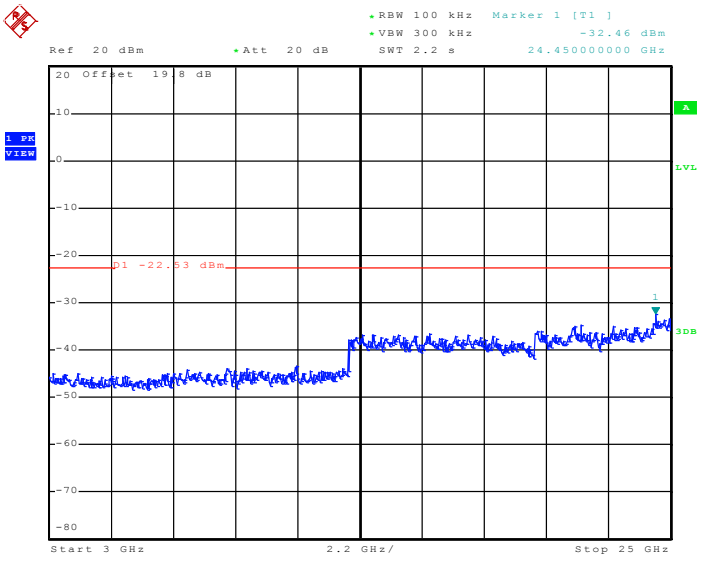
Channel 03 between 30 MHz~3 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:00:59

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

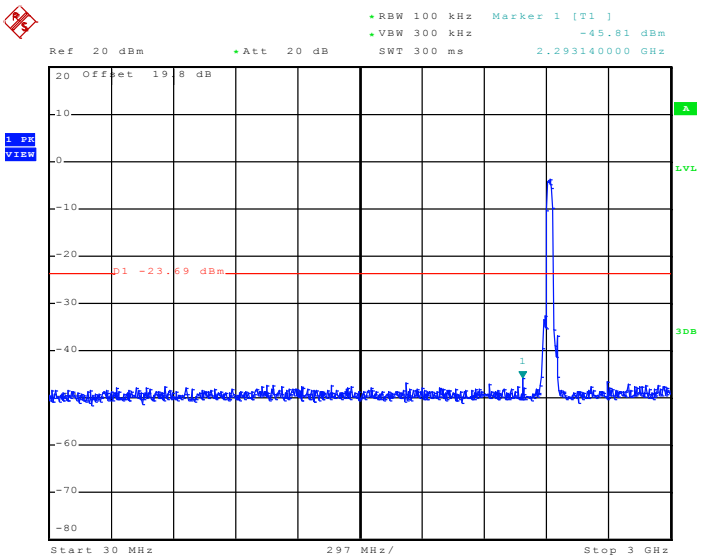
Channel 03 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:01:17

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

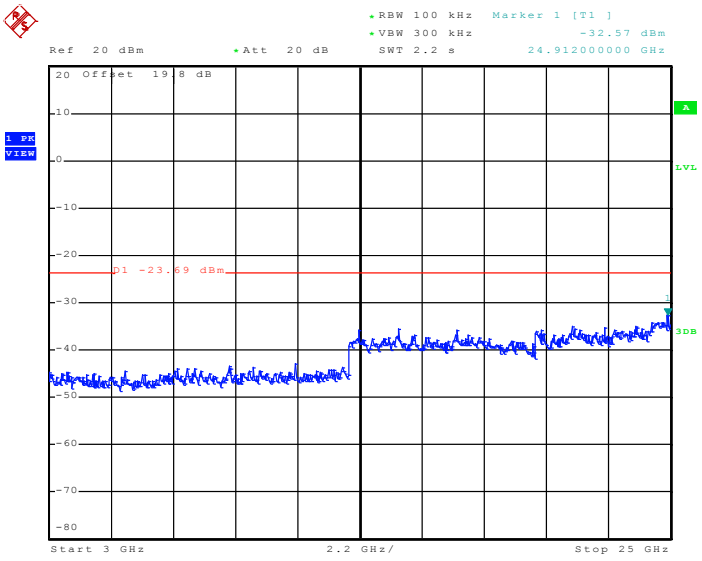
Channel 03 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:13:43

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

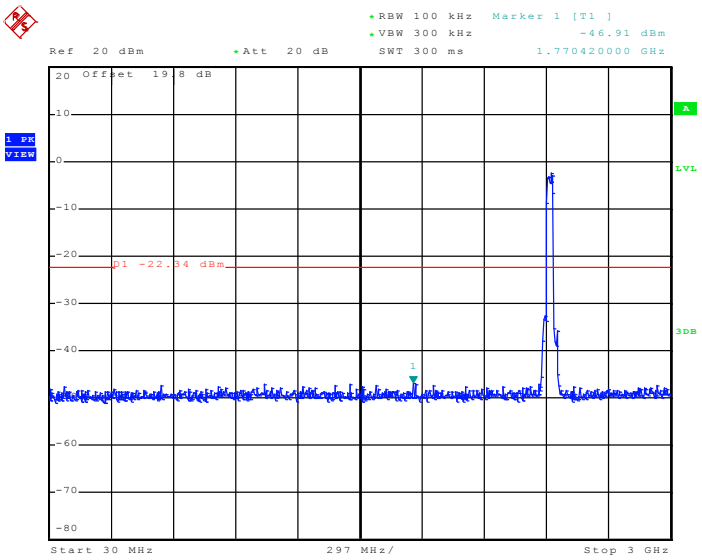
Channel 03 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:14:01

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

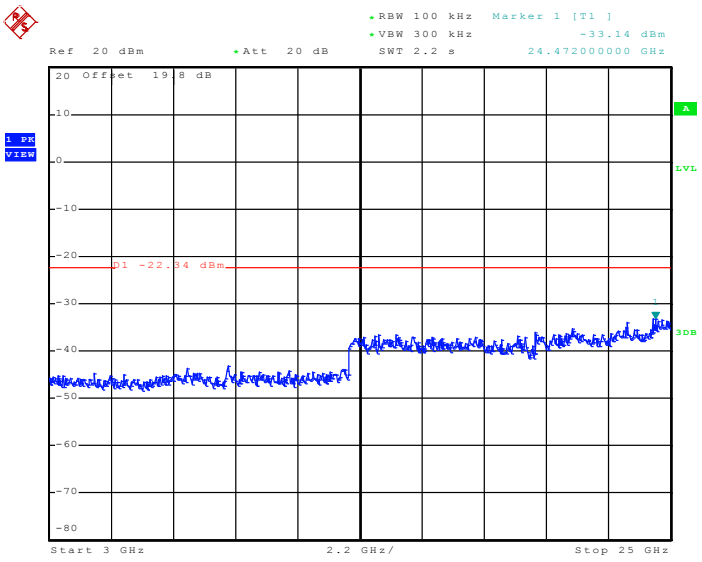
Channel 03 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:32:23

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

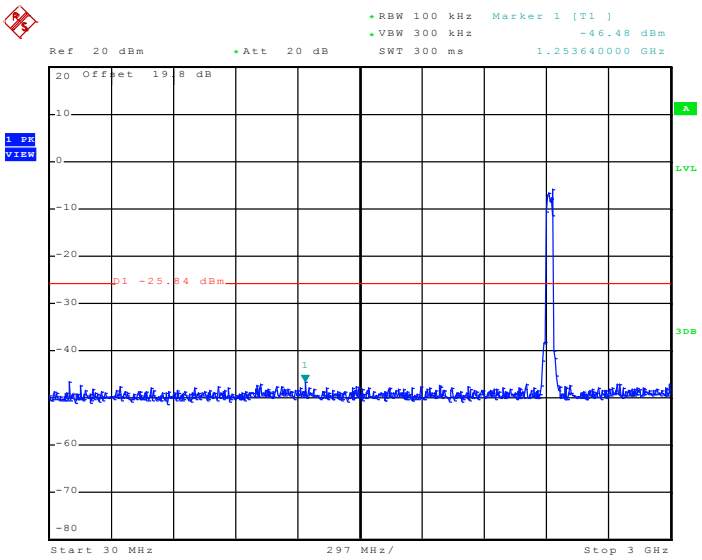
Channel 03 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:32:41

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

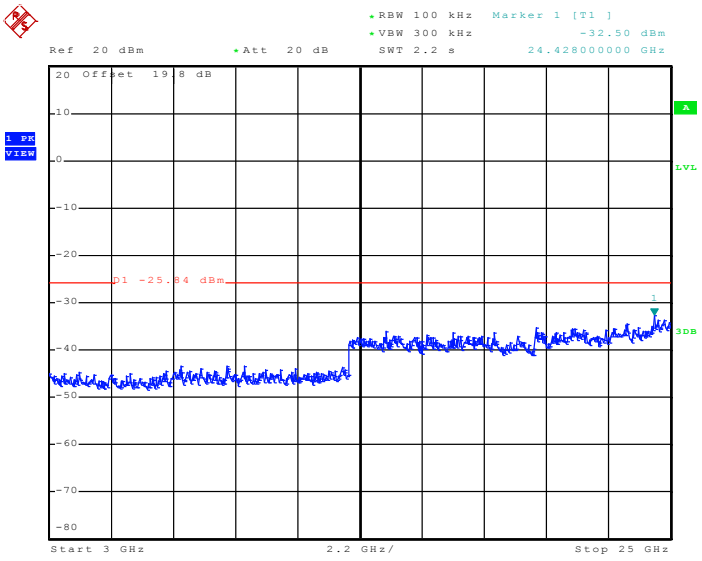
Channel 03 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:51:18

Mode 10:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

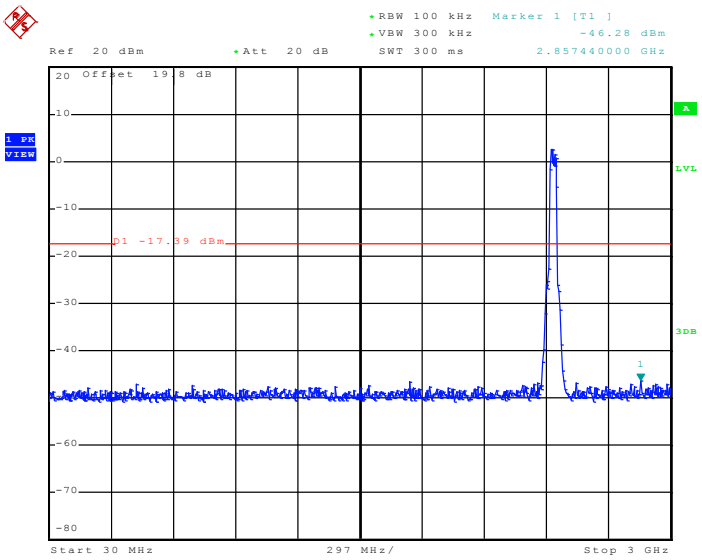
Channel 03 between 3 GHz ~25 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 03:51:36

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

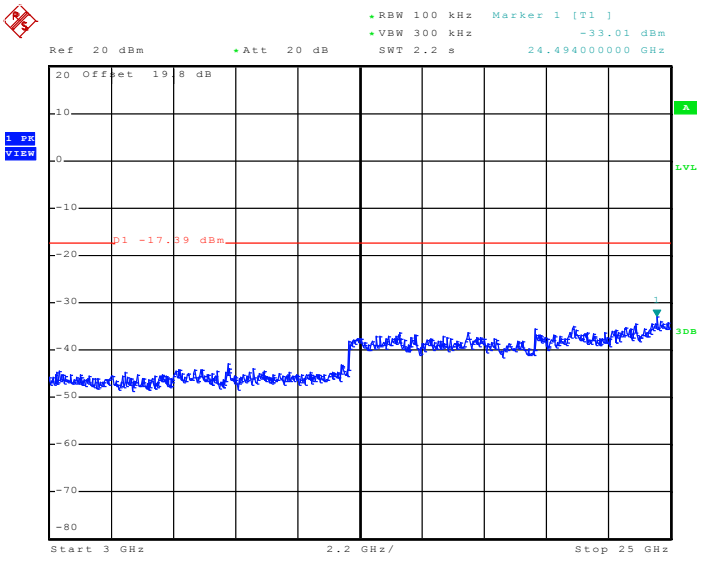
Channel 06 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 21:45:30

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

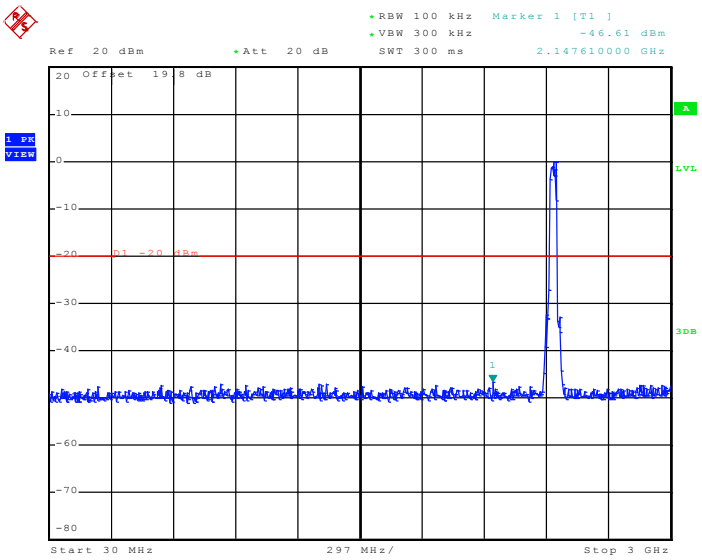
Channel 06 between 3 GHz ~25 GHz – Chain A



Date: 17.FEB.2011 21:45:48

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

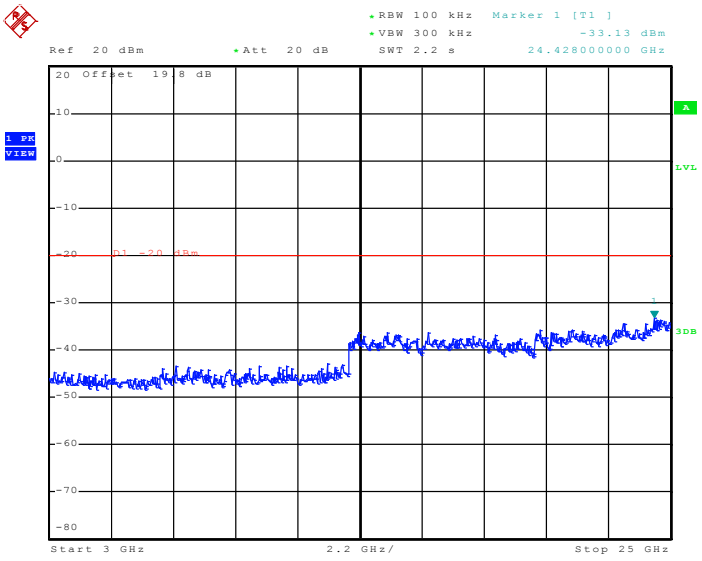
Channel 06 between 30 MHz~3 GHz - Chain A+B(A)



Date: 18.FEB.2011 01:08:42

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

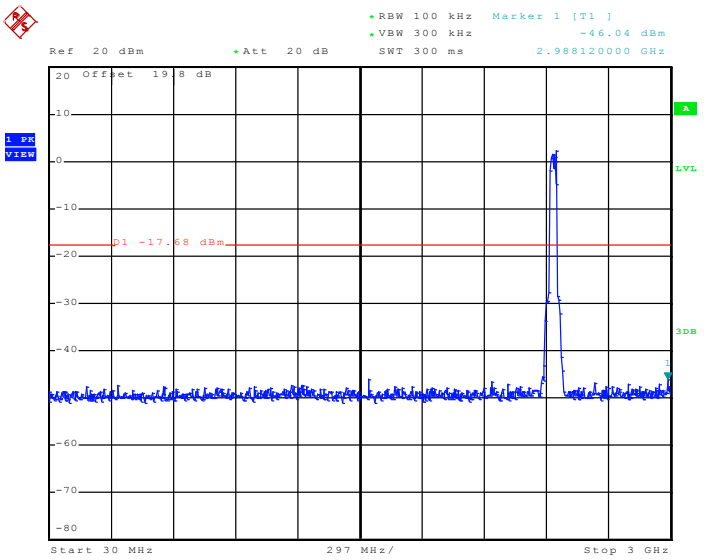
Channel 06 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 18.FEB.2011 01:09:00

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

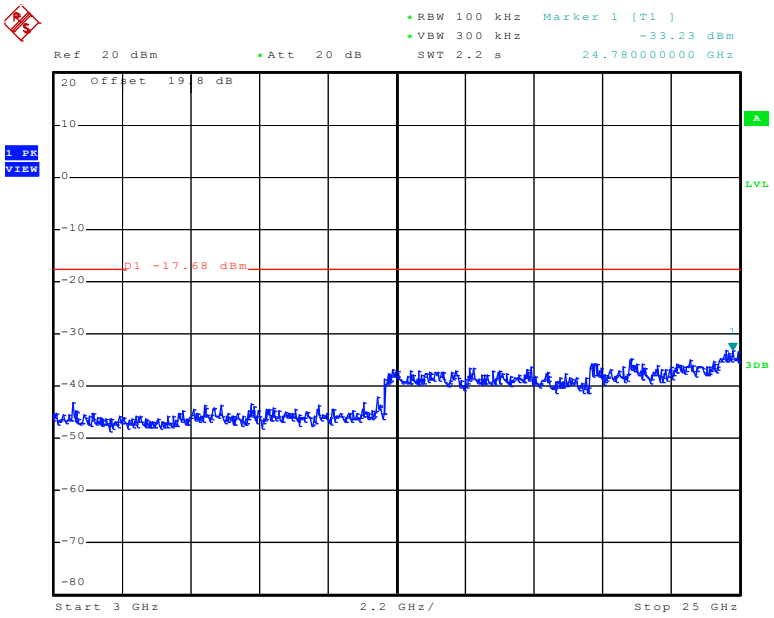
Channel 06 between 30 MHz~3 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:13:44

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

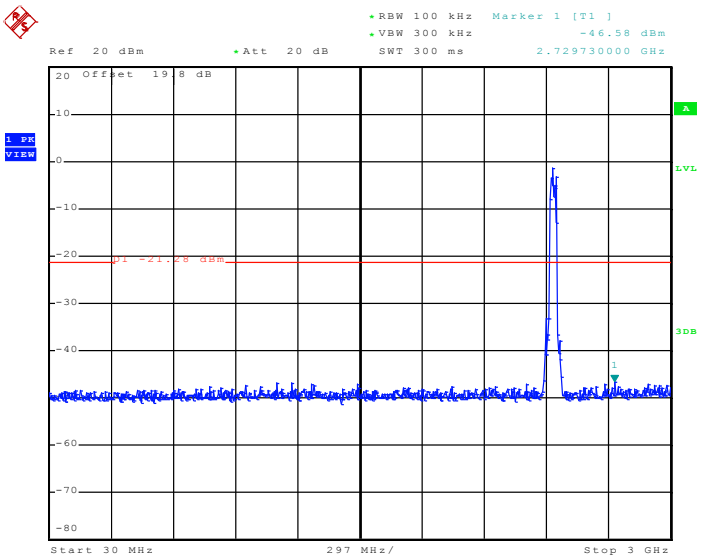
Channel 06 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:14:02

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

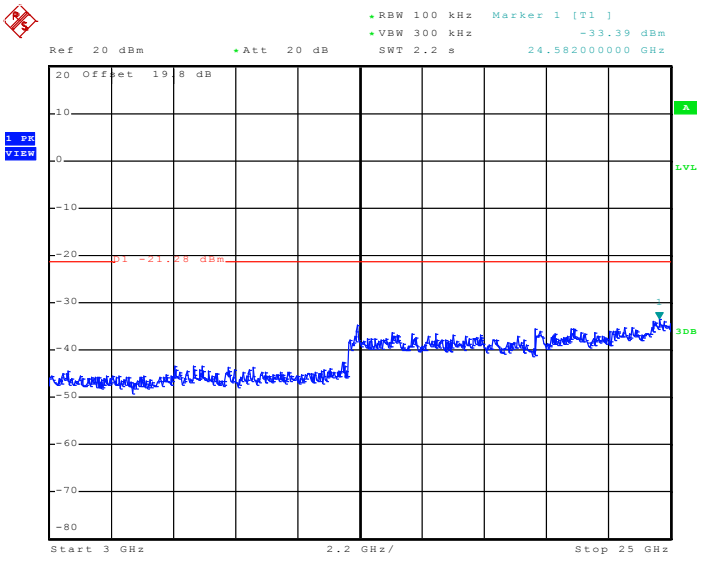
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:31:38

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

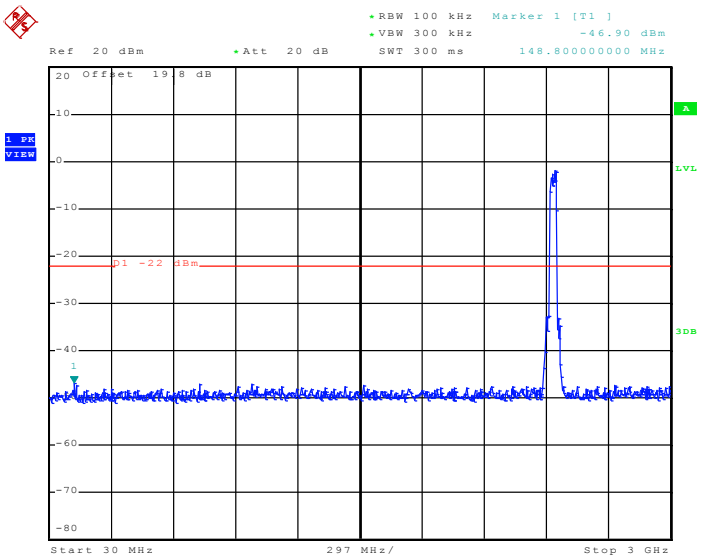
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:31:56

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

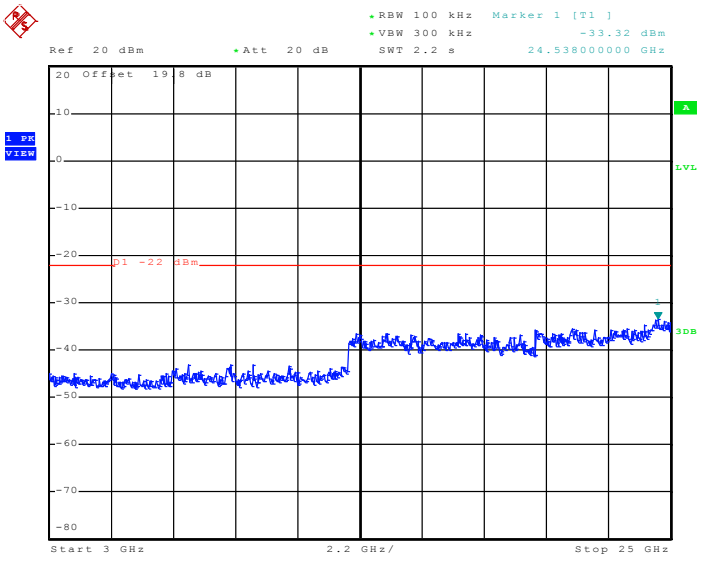
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:44:57

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

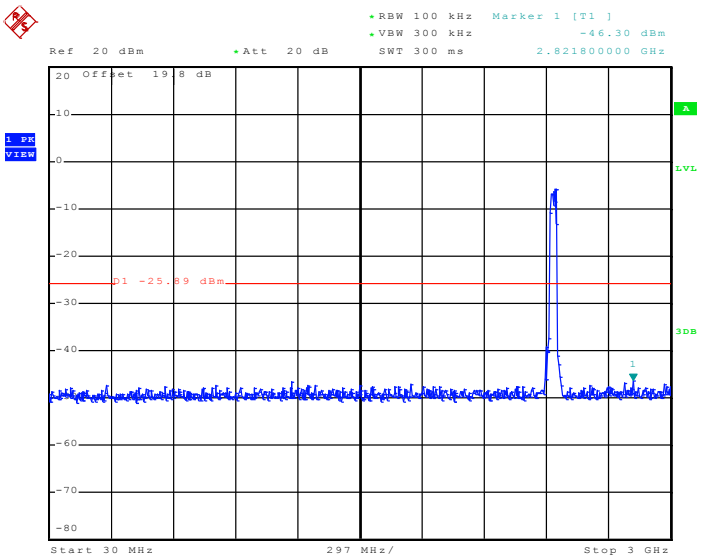
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:45:15

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

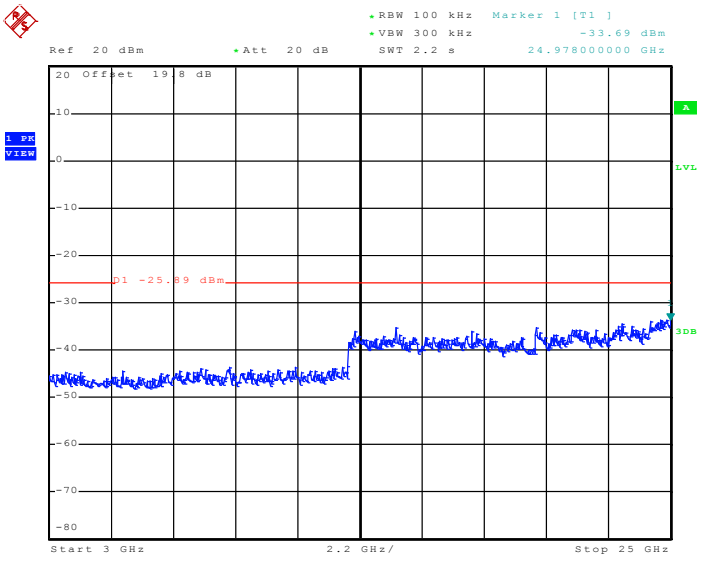
Channel 06 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 04:04:55

Mode 11: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

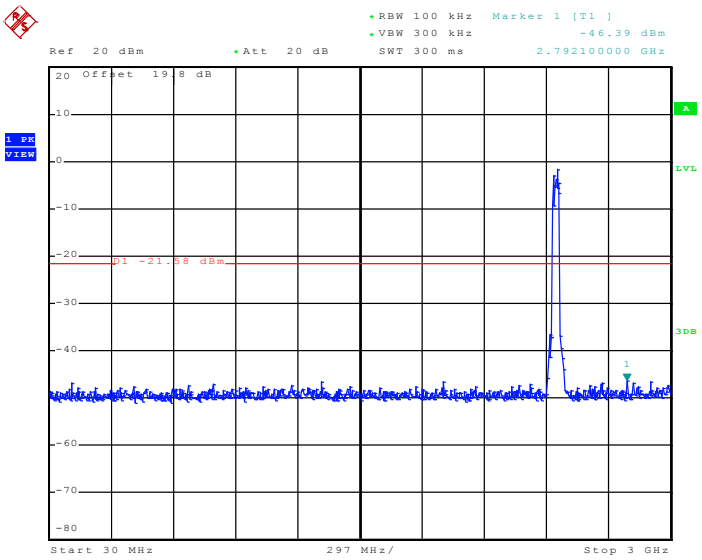
Channel 06 between 3 GHz ~25 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 04:05:13

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

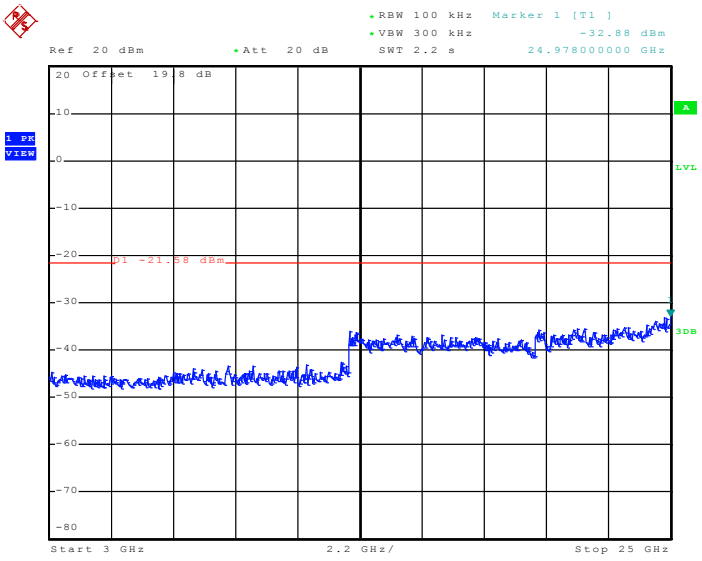
Channel 09 between 30 MHz~3 GHz - Chain A



Date: 17.FEB.2011 22:10:19

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

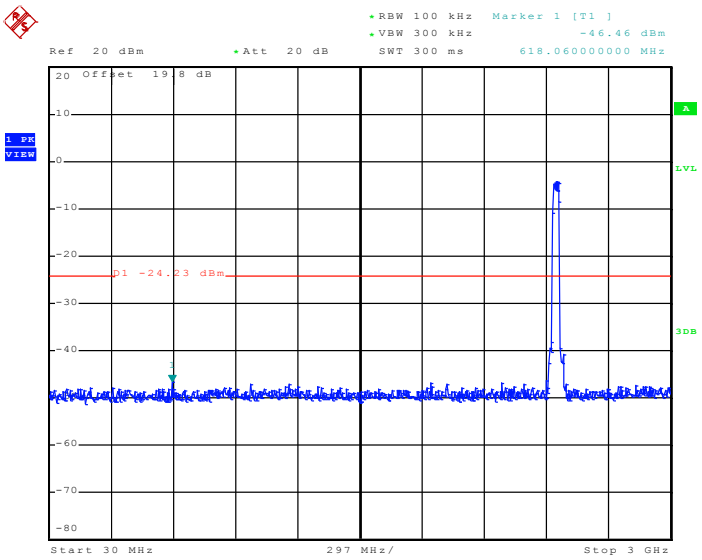
Channel 09 between 3 GHz ~25 GHz – Chain A



Date: 17.FEB.2011 22:10:37

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

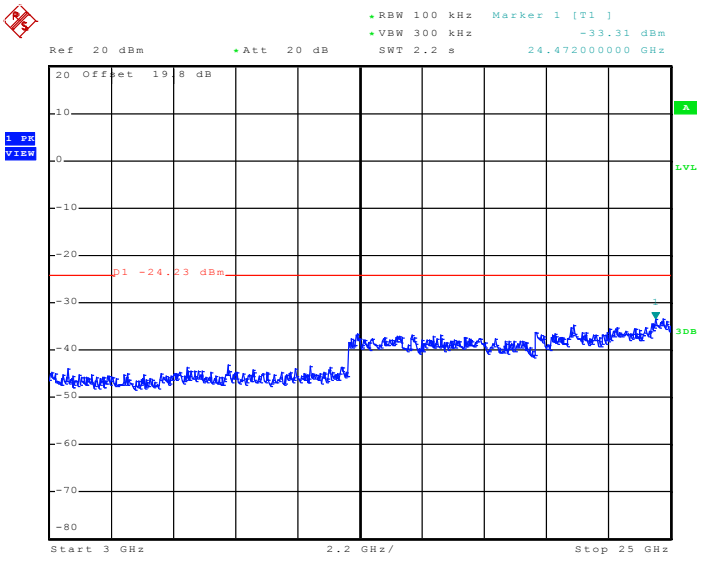
Channel 09 between 30 MHz~3 GHz - Chain A+B(A)



Date: 18.FEB.2011 01:21:46

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

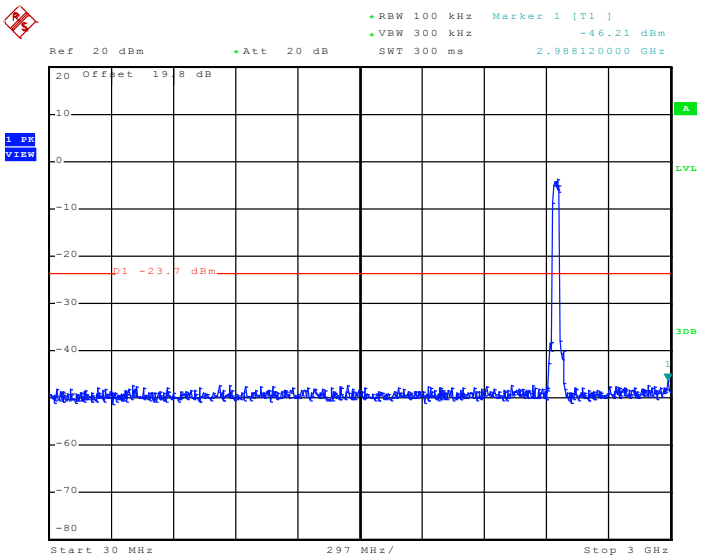
Channel 09 between 3 GHz ~25 GHz - Chain A+B(A)



Date: 18.FEB.2011 01:22:04

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

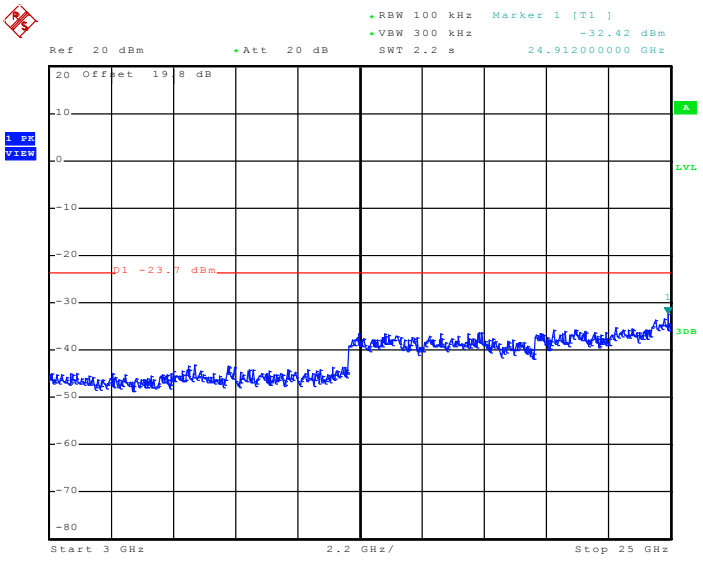
Channel 09 between 30 MHz~3 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:27:40

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

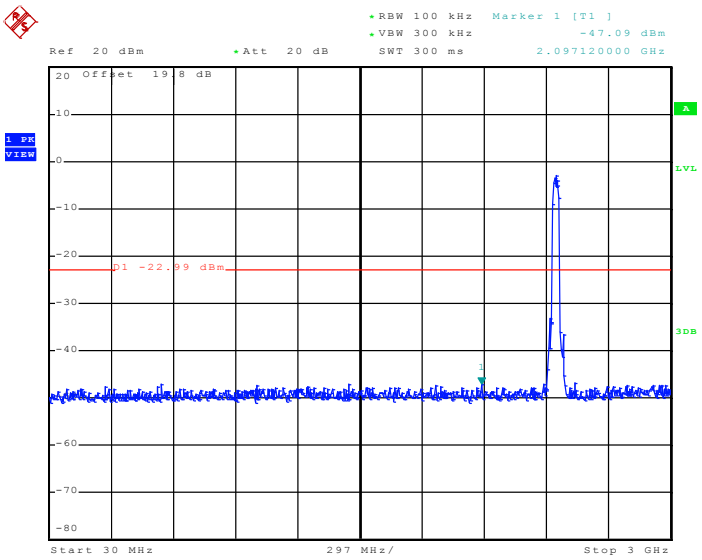
Channel 09 between 3 GHz ~25 GHz - Chain A+B(B)



Date: 18.FEB.2011 00:27:58

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

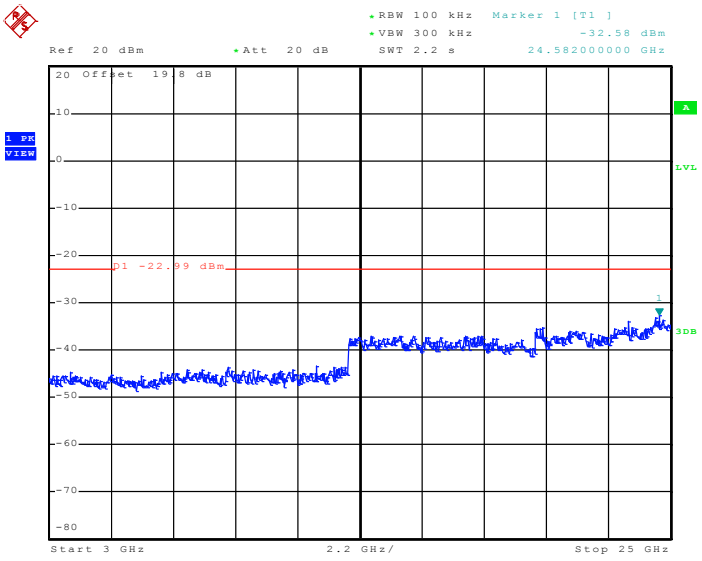
Channel 09 between 30 MHz~3 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:44:11

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

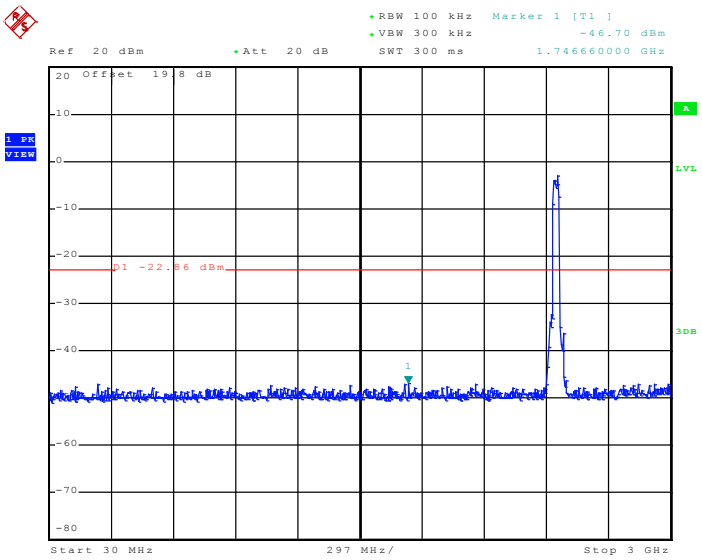
Channel 09 between 3 GHz ~25 GHz - Chain A+B+C(A)



Date: 18.FEB.2011 05:44:29

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

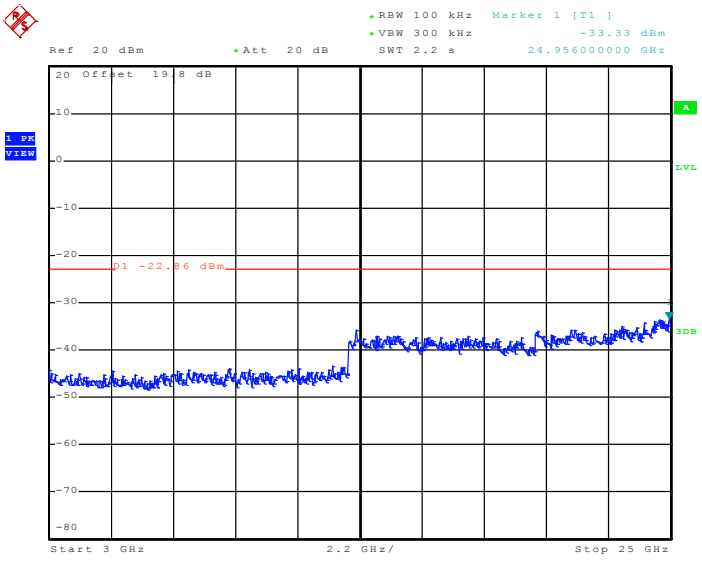
Channel 09 between 30 MHz~3 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:56:32

Mode 12: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

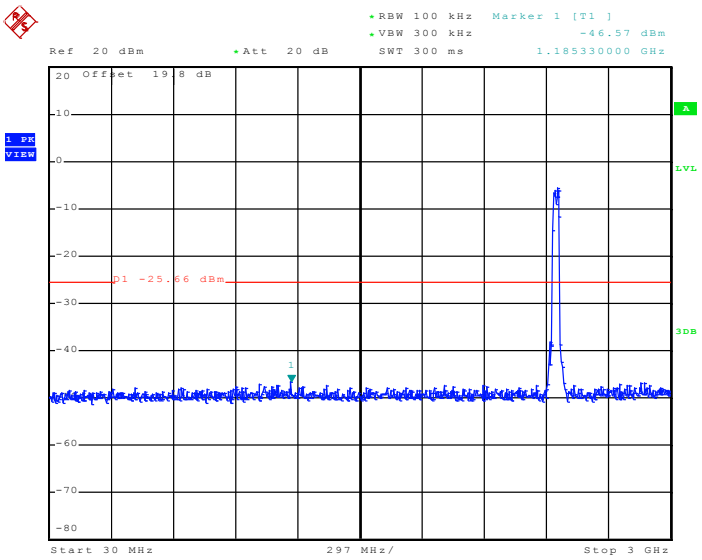
Channel 09 between 3 GHz ~25 GHz - Chain A+B+C(B)



Date: 18.FEB.2011 04:56:50

Mode 12:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

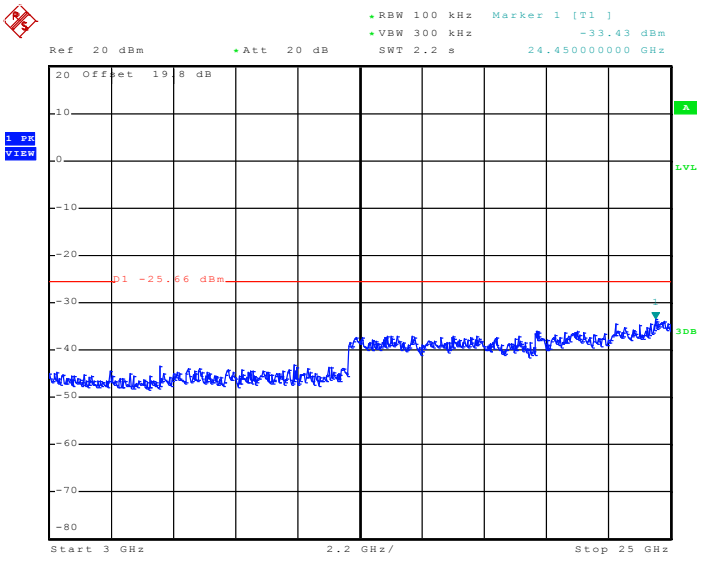
Channel 09 between 30 MHz~3 GHz - Chain A+B+C(C)



Date: 18.FEB.2011 04:17:08

Mode 12: Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

Channel 09 between 3 GHz ~25 GHz - Chain A+B+C(C)

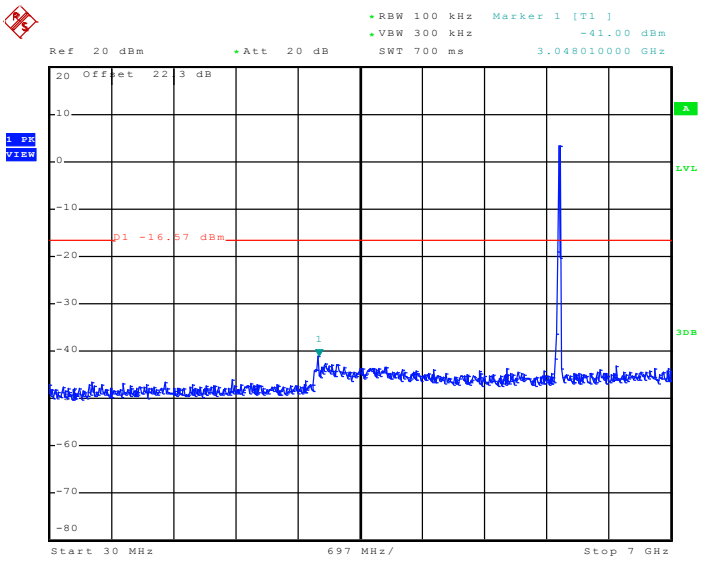


Date: 18.FEB.2011 04:17:26

Test Mode :	Mode 13, 14, 15	Temperature :	26~29℃
Test Band :	802.11a	Relative Humidity :	48~51%
Test Channel :	149, 157, 165	Test Engineer :	Alan Liu

Mode 13:Conducted Spurious Emission Plot on

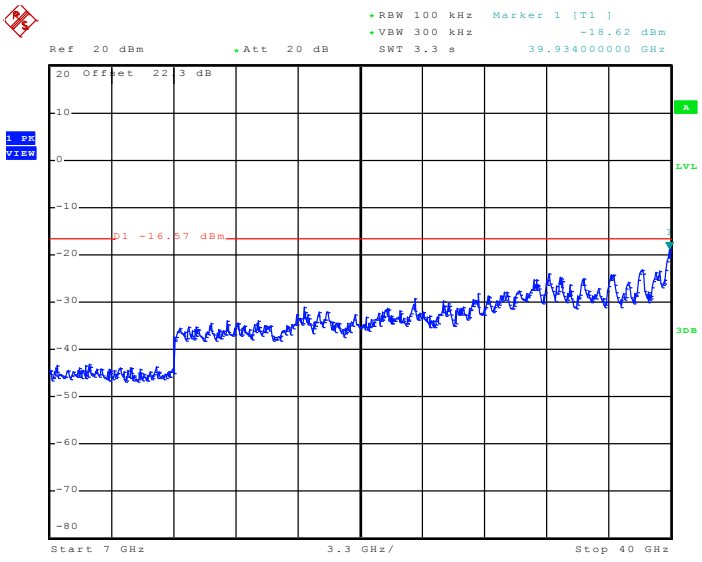
802.11a Channel 149 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 01:52:56

Mode 13:Conducted Spurious Emission Plot on

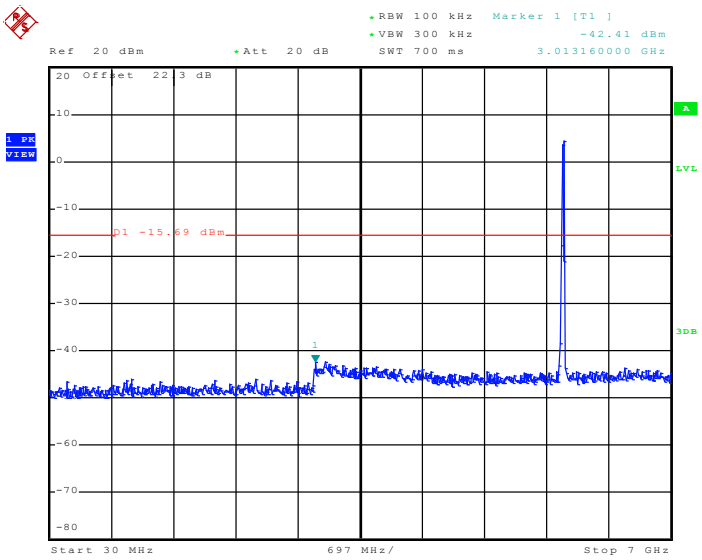
802.11a Channel 149 between 7 GHz~40 GHz - Chain C



Date: 23.FEB.2011 01:53:13

Mode 14:Conducted Spurious Emission Plot on

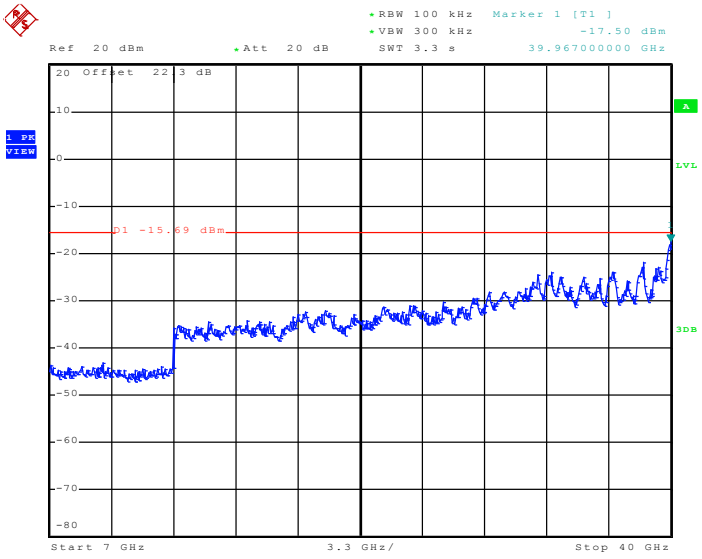
802.11a Channel 157 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 02:13:38

Mode 14:Conducted Spurious Emission Plot on

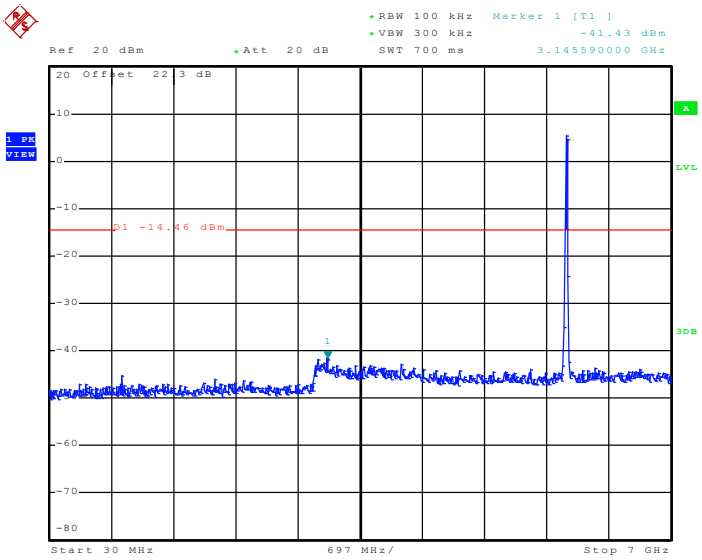
802.11g Channel 157 between 7 GHz~40 GHz - Chain C



Date: 23.FEB.2011 02:13:55

Mode 15:Conducted Spurious Emission Plot on

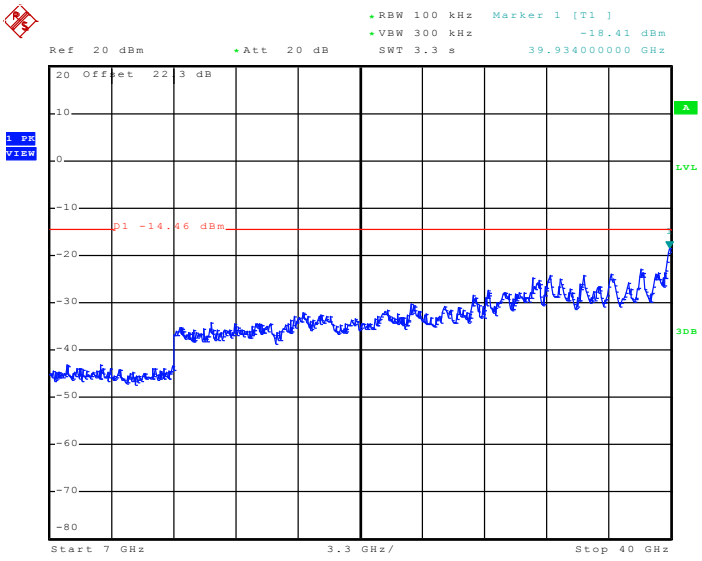
802.11a Channel 165 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 02:25:42

Mode 15:Conducted Spurious Emission Plot on

802.11a Channel 165 between 7 GHz~40 GHz - Chain C

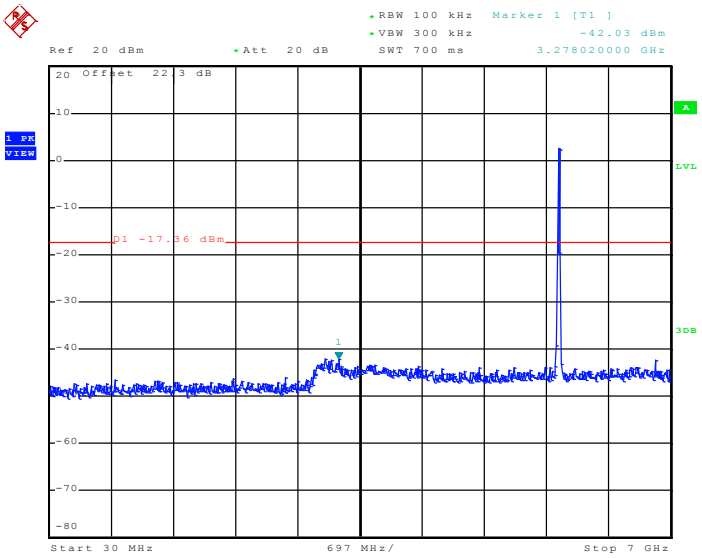


Date: 23.FEB.2011 02:25:58

Test Mode :	Mode 16, 17, 18	**Temperature :**	26~29℃
Test Band :	802.11n(20MHz)	**Relative Humidity :**	48~51%
Test Channel :	149, 157, 165	**Test Engineer :**	Alan Liu

Mode 16:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

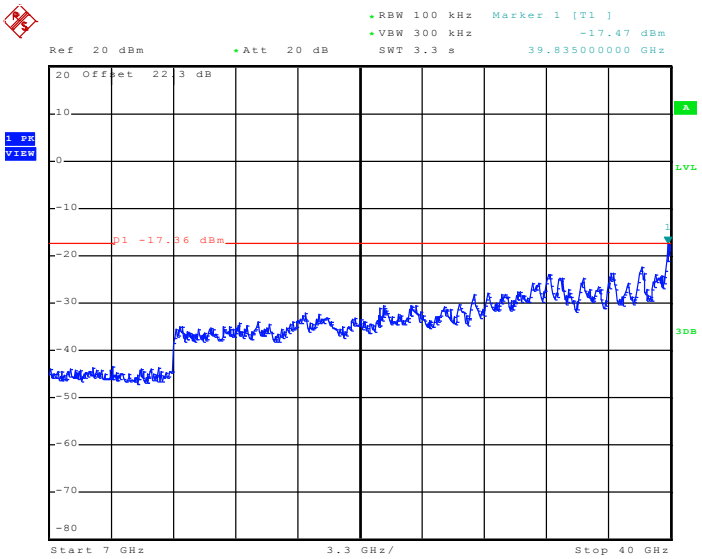
Channel 149 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 02:39:08

Mode 16:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

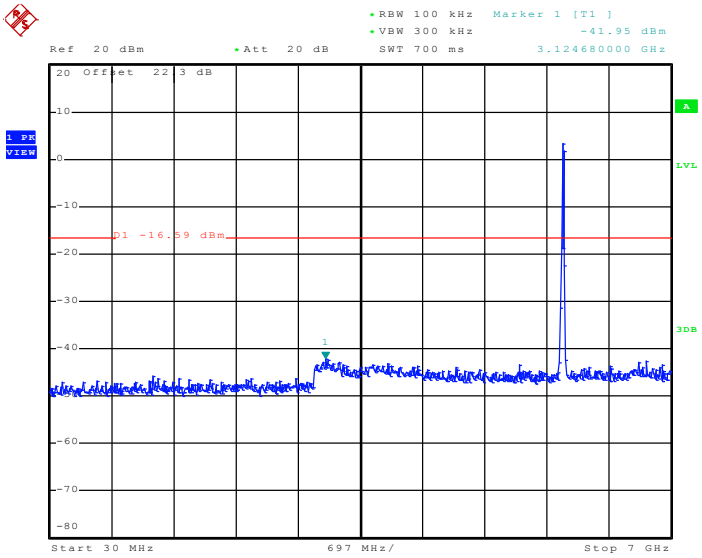
Channel 149 between 7 GHz~40 GHz - Chain C



Date: 23.FEB.2011 02:39:25

Mode 17:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

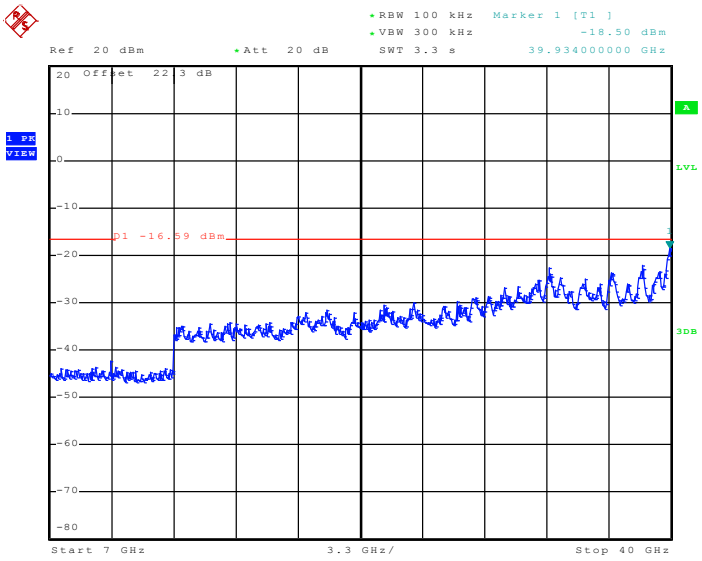
Channel 157 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 02:52:06

Mode 17:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

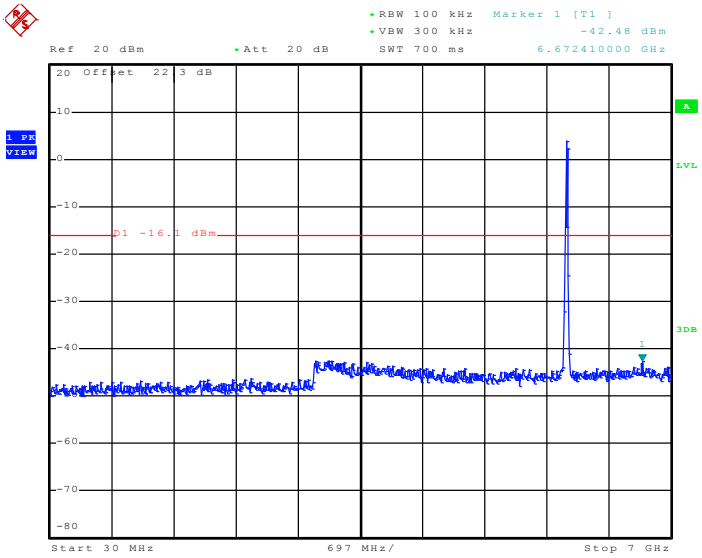
Channel 157 between 7 GHz~40 GHz - Chain C



Date: 23.FEB.2011 02:52:23

Mode 18:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

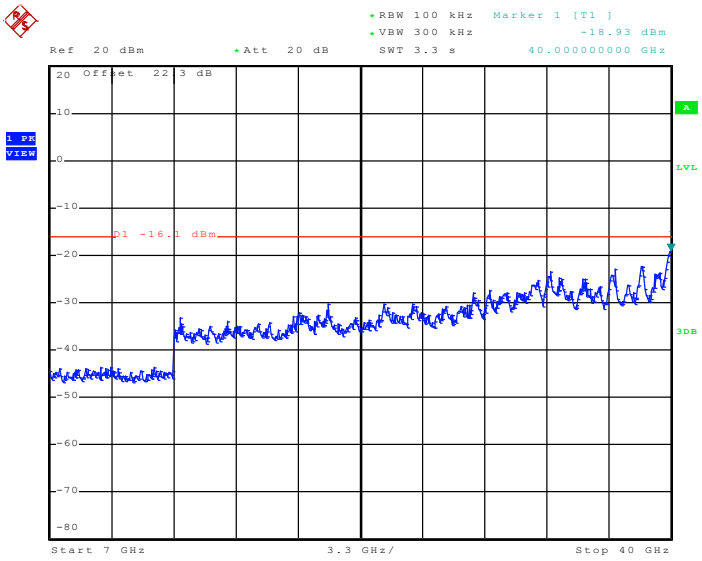
Channel 165 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 03:07:33

Mode 18:Conducted Spurious Emission Plot on 802.11n (BW 20MHz)

Channel 165 between 7 GHz~40 GHz - Chain C

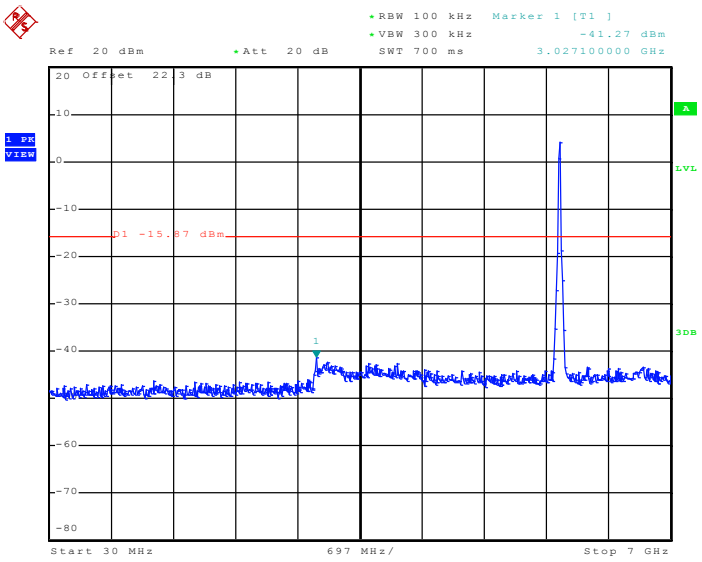


Date: 23.FEB.2011 03:07:50

Test Mode :	Mode 19, 20	Temperature :	26~29℃
Test Band :	802.11n (BW 40MHz)	Relative Humidity :	48~51%
Test Channel :	151 and 159	Test Engineer :	Alan Liu

Mode 19:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

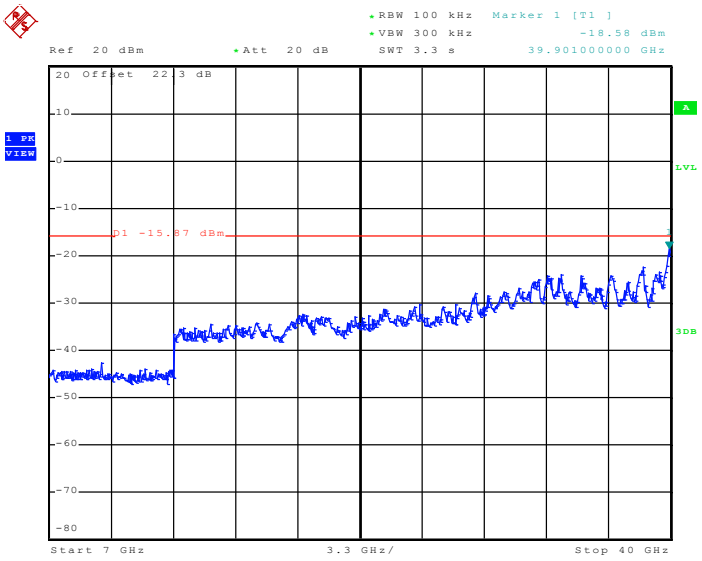
Channel 151 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 03:24:42

Mode 19:Conducted Spurious Emission Plot on 802.11n (BW 40MHz)

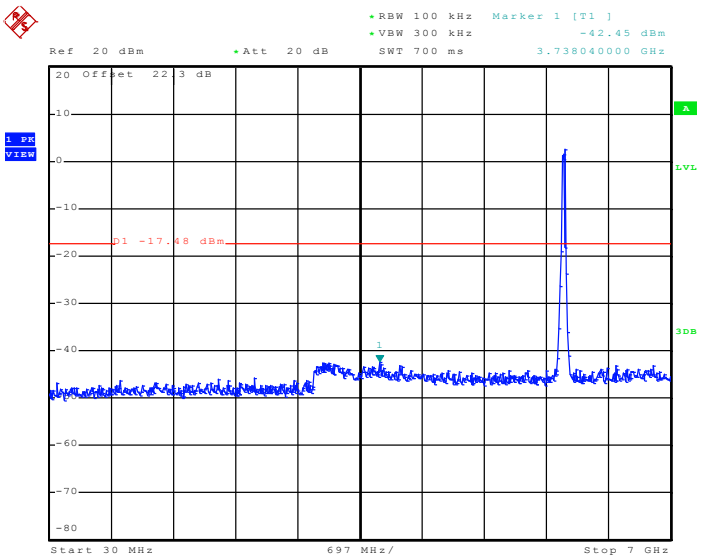
Channel 151 between 3 GHz~40 GHz - Chain C



Date: 23.FEB.2011 03:24:59

Mode 20:Conducted Spurious Emission Plot on 802.11a (BW 40MHz)

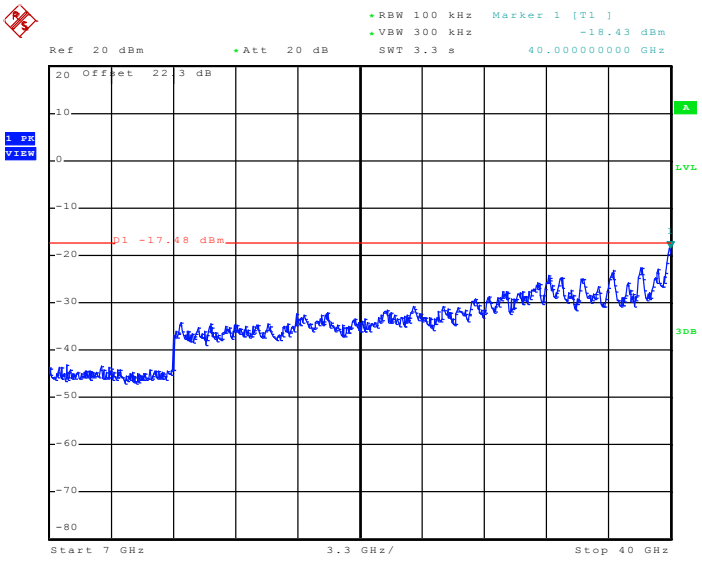
Channel 159 between 30 MHz~7 GHz - Chain C



Date: 23.FEB.2011 03:36:57

Mode 20:Conducted Spurious Emission Plot on 802.11a (BW 40MHz)

Channel 159 between 7 GHz~40 GHz - Chain C



Date: 23.FEB.2011 03:37:14

3.5 Power Spectral Density Measurement

3.5.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

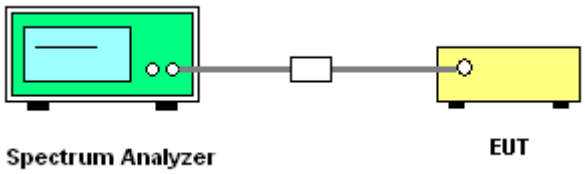
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The test follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Take the measured data from spectrum analyzer.

3.5.4 Test Setup



3.5.5 Test Result of Power Spectral Density

Test Mode :	Mode 1, 2, 3	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11b Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain A		
01	2412	-8.08	8	Pass
06	2437	-1.57	8	Pass
11	2462	-2.65	8	Pass

Test Mode :	Mode 4, 5, 6	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11g Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain B		
01	2412	-8.93	8	Pass
06	2437	-6.72	8	Pass
11	2462	-9.42	8	Pass

Test Mode :	Mode 7, 8, 9	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11n (BW 20MHz) Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain B		
01	2412	-9.47	8	Pass
06	2437	-7.18	8	Pass
11	2462	-9.39	8	Pass

Channel	Frequency (MHz)	802.11n (BW 20MHz) Measured PSD (dBm)			Max. Limits (dBm)	Pass/Fail
		Chain A+B(A)	Chain A+B(B)	Total Power Density		
01	2412	-12.17	-11.68	-8.91	8	Pass
06	2437	-11.74	-10.02	-7.79	8	Pass
11	2462	-12.75	-10.58	-8.52	8	Pass

Channel	Frequency (MHz)	802.11n (BW 20MHz) Measured PSD (dBm)				Max. Limits (dBm)	Pass/Fail
		Chain A+B+C(A)	Chain A+B+C(B)	Chain A+B+C(C)	Total Power Density		
01	2412	-15.40	-14.23	-17.46	-10.73	8	Pass
06	2437	-14.64	-14.31	-17.18	-10.43	8	Pass
11	2462	-14.00	-14.07	-16.72	-9.99	8	Pass

Note: Each chain was measured individually and calculated with the formula of 10*LOG (10^ (chain A/10) + 10^ (chain B/10) + 10^ (chain C/10)).

Test Mode :	Mode 10, 11, 12	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11n (BW 40MHz) Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain A		
03	2422	-16.24	8	Pass
06	2437	-12.43	8	Pass
09	2452	-17.07	8	Pass

Channel	Frequency (MHz)	802.11n (BW 40MHz) Measured PSD (dBm)			Max. Limits (dBm)	Pass/Fail
		Chain A+B(A)	Chain A+B(B)	Total Power Density		
03	2422	-18.11	-17.63	-14.85	8	Pass
06	2437	-15.41	-13.24	-11.18	8	Pass
09	2452	-19.02	-17.42	-15.14	8	Pass

Channel	Frequency (MHz)	802.11n (BW 40MHz) Measured PSD (dBm)				Max. Limits (dBm)	Pass/Fail
		Chain A+B+C(A)	Chain A+B+C(B)	Chain A+B+C(C)	Total Power Density		
03	2422	-18.49	-18.75	-22.88	-14.86	8	Pass
06	2437	-18.90	-18.39	-22.68	-14.85	8	Pass
09	2452	-19.17	-18.75	-22.40	-15.06	8	Pass

Note: Each chain was measured individually and calculated with the formula of 10*LOG (10^ (chain A/10) + 10^ (chain B/10) + 10^ (chain C/10)).

Test Mode :	Mode 13, 14, 15	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11a Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain C		
149	5745	-7.31	8	Pass
157	5785	-8.10	8	Pass
165	5825	-8.36	8	Pass

Test Mode :	Mode 16, 17, 18	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11n (BW 20MHz) Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain C		
149	5745	-9.10	8	Pass
157	5785	-8.72	8	Pass
165	5825	-9.33	8	Pass

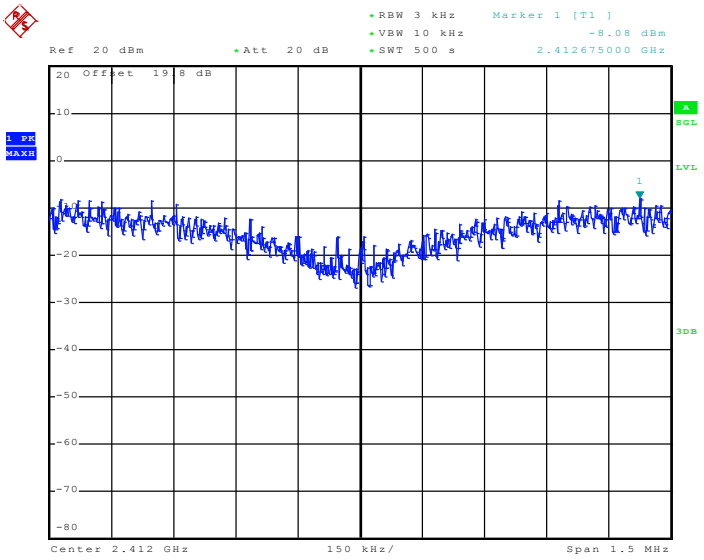
Test Mode :	Mode 19, 20	Temperature :	26~29℃
Test Engineer :	Alan Liu	Relative Humidity :	48~51%

Channel	Frequency (MHz)	802.11n (BW 40MHz) Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
		Chain C		
151	5755	-12.42	0.5	Pass
159	5795	-12.31		

3.5.6 Test Result of Power Spectral Density Plots

Mode 1 :

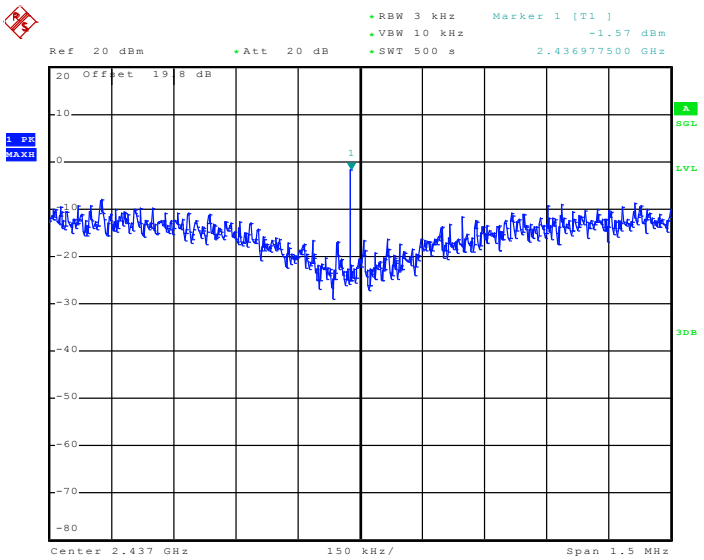
PSD Plot on 802.11b Channel 01 – Chain A



Date: 17.FEB.2011 18:00:51

Mode 2 :

PSD Plot on 802.11b Channel 06 – Chain A



Date: 17.FEB.2011 18:17:47