



FCC PART 15C TEST REPORT No. 2013WLN0809

for

TCT Mobile Limited

HSDPA/HSUPA/UMTS dual band / GSM quad bands mobile phone

Model Name: Comet Hybrid(Beetle Lite JB VF)

Marketing Name: Vodafone 875

With

FCC ID: RAD376

Hardware Version: MP

Software Version: vID3-8

Issued Date: 2013-12-05



Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

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CONTENTS

CONTENTS	2
1. TEST LABORATORY	10
1.1. TESTING LOCATION	10
1.2. PROJECT DATA	10
1.3. SIGNATURE	10
2. CLIENT INFORMATION	11
2.1. APPLICANT INFORMATION	11
2.2. MANUFACTURER INFORMATION	11
3. EQUIPMENT UNDER TEST(EUT) AND ANCILLARY EQUIPMENT(AE)	12
3.1. ABOUT EUT	12
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	12
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	12
3.4. GENERAL DESCRIPTION	12
4. REFERENCE DOCUMENTS	13
4.1. DOCUMENTS SUPPLIED BY APPLICANT	13
4.2. REFERENCE DOCUMENTS FOR TESTING	13
5. LABORATORY ENVIRONMENT	13
6. SUMMARY OF TEST RESULTS	14
6.1. SUMMARY OF TEST RESULTS	14
6.2. STATEMENTS	14
6.3. TEST CONDITIONS	14
7. TEST EQUIPMENTS UTILIZED	15
ANNEX A: MEASUREMENT RESULTS	16
A.1. MEASUREMENT METHOD	16
A.2. MAXIMUM OUTPUT POWER	17
A.2.1. MAXIMUM PEAK OUTPUT POWER-CONDUCTED	17
A.2.2. MAXIMUM AVERAGE OUTPUT POWER-CONDUCTED	18
A.3. PEAK POWER SPECTRAL DENSITY	19
FIG. 1 POWER SPECTRAL DENSITY (802.11B, CH 1)	20
FIG. 2 POWER SPECTRAL DENSITY (802.11B, CH 6)	20
FIG. 3 POWER SPECTRAL DENSITY (802.11B, CH 11)	21
FIG. 4 POWER SPECTRAL DENSITY (802.11B, CH 12)	21
FIG. 5 POWER SPECTRAL DENSITY (802.11B, CH 13)	22
FIG. 6 POWER SPECTRAL DENSITY (802.11G, CH 1)	22
FIG. 7 POWER SPECTRAL DENSITY (802.11G, CH 6)	23
FIG. 8 POWER SPECTRAL DENSITY (802.11G, CH 11)	23

FIG. 9 POWER SPECTRAL DENSITY (802.11G, CH 12)	24
FIG. 10POWER SPECTRAL DENSITY (802.11G, CH 13)	24
FIG. 11POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 1).....	25
FIG. 12POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 6).....	25
FIG. 13POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 11).....	26
FIG. 14POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 12).....	26
FIG. 15POWER SPECTRAL DENSITY (802.11N-20MHZ, CH 13).....	27
FIG. 16POWER SPECTRAL DENSITY (802.11N-40MHZ, CH 3).....	27
FIG. 17POWER SPECTRAL DENSITY (802.11N-40MHZ, CH 6).....	28
FIG. 18POWER SPECTRAL DENSITY (802.11N-40MHZ, CH 9).....	28
FIG. 19POWER SPECTRAL DENSITY (802.11N-40MHZ, CH 10).....	29
FIG. 20POWER SPECTRAL DENSITY (802.11N-40MHZ, CH 11).....	29
A.4. OCCUPIED 6dB BANDWIDTH	30
FIG. 21OCCUPIED 6dB BANDWIDTH (802.11B, CH 1)	31
FIG. 22OCCUPIED 6dB BANDWIDTH (802.11B, CH 6)	31
FIG. 23OCCUPIED 6dB BANDWIDTH (802.11B, CH 11)	32
FIG. 24OCCUPIED 6dB BANDWIDTH (802.11B, CH 12)	32
FIG. 25OCCUPIED 6dB BANDWIDTH (802.11B, CH 13)	33
FIG. 26OCCUPIED 6dB BANDWIDTH (802.11G, CH 1)	33
FIG. 27OCCUPIED 6dB BANDWIDTH (802.11G, CH 6)	34
FIG. 28OCCUPIED 6dB BANDWIDTH (802.11G, CH 11)	34
FIG. 29OCCUPIED 6dB BANDWIDTH (802.11G, CH 12)	35
FIG. 30OCCUPIED 6dB BANDWIDTH (802.11G, CH 13)	35
FIG. 31OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 1)	36
FIG. 32OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 6)	36
FIG. 33OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 11).....	37
FIG. 34OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 12)	37
FIG. 35OCCUPIED 6dB BANDWIDTH (802.11N-20MHZ, CH 13)	38
FIG. 36OCCUPIED 6dB BANDWIDTH (802.11N-40MHZ, CH 3)	38
FIG. 37OCCUPIED 6dB BANDWIDTH (802.11N-40MHZ, CH 6)	39
FIG. 38OCCUPIED 6dB BANDWIDTH (802.11N-40MHZ, CH 9)	39
FIG. 39OCCUPIED 6dB BANDWIDTH (802.11N-40MHZ, CH 10)	40
FIG. 40OCCUPIED 6dB BANDWIDTH (802.11N-40MHZ, CH 11).....	40
A.5. BAND EDGES COMPLIANCE	41
FIG. 41BAND EDGES (802.11B, CH 1).....	42
FIG. 42BAND EDGES (802.11B, CH 11).....	42
FIG. 43BAND EDGES (802.11B, CH 13).....	43
FIG. 44BAND EDGES (802.11G, CH 1).....	43
FIG. 45BAND EDGES (802.11G, CH 11).....	44
FIG. 46BAND EDGES (802.11G, CH 13).....	44
FIG. 47BAND EDGES (802.11N-20MHZ, CH 1).....	45
FIG. 48BAND EDGES (802.11N-20MHZ, CH 11)	45
FIG. 49BAND EDGES (802.11N-20MHZ, CH 13).....	46
FIG. 50BAND EDGES (802.11N-40MHZ, CH 3).....	46

FIG. 51BAND EDGES (802.11N-40MHZ, CH 9).....	47
FIG. 52BAND EDGES (802.11N-40MHZ, CH 11).....	47
A.6. TRANSMITTER SPURIOUS EMISSION	48
A.6.1 TRANSMITTER SPURIOUS EMISSION - CONDUCTED	48
FIG. 53CONDUCTED SPURIOUS EMISSION (802.11B, CH1, CENTER FREQUENCY).....	53
FIG. 54CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 30 MHZ-1 GHZ)	53
FIG. 55CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 1 GHZ-2.5 GHZ).....	54
FIG. 56CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 2.5 GHZ-7.5 GHZ).....	54
FIG. 57CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 7.5 GHZ-10 GHZ).....	55
FIG. 58CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 10 GHZ-15 GHZ).....	55
FIG. 59CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 15 GHZ-20 GHZ).....	56
FIG. 60CONDUCTED SPURIOUS EMISSION (802.11B, CH1, 20 GHZ-26 GHZ).....	56
FIG. 61CONDUCTED SPURIOUS EMISSION (802.11B, CH6, CENTER FREQUENCY).....	57
FIG. 62CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 30 MHZ-1 GHZ)	57
FIG. 63CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 1 GHZ-2.5 GHZ).....	58
FIG. 64CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 2.5 GHZ-7.5 GHZ).....	58
FIG. 65CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 7.5 GHZ-10 GHZ).....	59
FIG. 66CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 10 GHZ-15 GHZ).....	59
FIG. 67CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 15 GHZ-20 GHZ).....	60
FIG. 68CONDUCTED SPURIOUS EMISSION (802.11B, CH6, 20 GHZ-26 GHZ).....	60
FIG. 69CONDUCTED SPURIOUS EMISSION (802.11B, CH11, CENTER FREQUENCY)	61
FIG. 70CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 30 MHZ-1 GHZ).....	61
FIG. 71CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 1 GHZ-2.5 GHZ).....	62
FIG. 72CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 2.5 GHZ-7.5 GHZ).....	62
FIG. 73CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 7.5 GHZ-10 GHZ).....	63
FIG. 74CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 10 GHZ-15 GHZ).....	63
FIG. 75CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 15 GHZ-20 GHZ).....	64
FIG. 76CONDUCTED SPURIOUS EMISSION (802.11B, CH11, 20 GHZ-26 GHZ).....	64
FIG. 77CONDUCTED SPURIOUS EMISSION (802.11B, CH12, CENTER FREQUENCY).....	65
FIG. 78CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 30 MHZ-1 GHZ)	65
FIG. 79CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 1 GHZ-2.5 GHZ).....	66
FIG. 80CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 2.5 GHZ-7.5 GHZ)	66
FIG. 81CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 7.5 GHZ-10 GHZ).....	67
FIG. 82CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 10 GHZ-15 GHZ).....	67
FIG. 83CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 15 GHZ-20 GHZ).....	68
FIG. 84CONDUCTED SPURIOUS EMISSION (802.11B, CH12, 20 GHZ-26 GHZ).....	68
FIG. 85CONDUCTED SPURIOUS EMISSION (802.11B, CH13, CENTER FREQUENCY).....	69
FIG. 86CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 30 MHZ-1 GHZ)	69
FIG. 87CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 1 GHZ-2.5 GHZ).....	70
FIG. 88CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 2.5 GHZ-7.5 GHZ)	70
FIG. 89CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 7.5 GHZ-10 GHZ).....	71
FIG. 90CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 10 GHZ-15 GHZ).....	71
FIG. 91CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 15 GHZ-20 GHZ).....	72
FIG. 92CONDUCTED SPURIOUS EMISSION (802.11B, CH13, 20 GHZ-26 GHZ).....	72

FIG. 93	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, CENTER FREQUENCY).....	73
FIG. 94	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 30 MHz-1 GHz)	73
FIG. 95	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 1 GHz-2.5 GHz).....	74
FIG. 96	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 2.5 GHz-7.5 GHz).....	74
FIG. 97	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 7.5 GHz-10 GHz).....	75
FIG. 98	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 10 GHz-15 GHz).....	75
FIG. 99	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 15 GHz-20 GHz).....	76
FIG. 100	CONDUCTED SPURIOUS EMISSION (802.11G, CH1, 20 GHz-26 GHz)	76
FIG. 101	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, CENTER FREQUENCY)	77
FIG. 102	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 30 MHz-1 GHz)	77
FIG. 103	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 1 GHz-2.5 GHz)	78
FIG. 104	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 2.5 GHz-7.5 GHz)	78
FIG. 105	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 7.5 GHz-10 GHz)	79
FIG. 106	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 10 GHz-15 GHz)	79
FIG. 107	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 15 GHz-20 GHz)	80
FIG. 108	CONDUCTED SPURIOUS EMISSION (802.11G, CH6, 20 GHz-26 GHz)	80
FIG. 109	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, CENTER FREQUENCY).....	81
FIG. 110	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 30 MHz-1 GHz)	81
FIG. 111	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 1 GHz-2.5 GHz).....	82
FIG. 112	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 2.5 GHz-7.5 GHz)	82
FIG. 113	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 7.5 GHz-10 GHz).....	83
FIG. 114	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 10 GHz-15 GHz).....	83
FIG. 115	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 15 GHz-20 GHz).....	84
FIG. 116	CONDUCTED SPURIOUS EMISSION (802.11G, CH11, 20 GHz-26 GHz).....	84
FIG. 117	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, CENTER FREQUENCY)	85
FIG. 118	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 30 MHz-1 GHz)	85
FIG. 119	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 1 GHz-2.5 GHz)	86
FIG. 120	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 2.5 GHz-7.5 GHz)	86
FIG. 121	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 7.5 GHz-10 GHz)	87
FIG. 122	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 10 GHz-15 GHz)	87
FIG. 123	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 15 GHz-20 GHz)	88
FIG. 124	CONDUCTED SPURIOUS EMISSION (802.11G, CH12, 20 GHz-26 GHz)	88
FIG. 125	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, CENTER FREQUENCY)	89
FIG. 126	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 30 MHz-1 GHz)	89
FIG. 127	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 1 GHz-2.5 GHz)	90
FIG. 128	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 2.5 GHz-7.5 GHz)	90
FIG. 129	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 7.5 GHz-10 GHz)	91
FIG. 130	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 10 GHz-15 GHz)	91
FIG. 131	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 15 GHz-20 GHz)	92
FIG. 132	CONDUCTED SPURIOUS EMISSION (802.11G, CH13, 20 GHz-26 GHz)	92
FIG. 133	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, CENTER FREQUENCY)	93
FIG. 134	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 30 MHz-1 GHz)	93
FIG. 135	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 1 GHz-2.5 GHz)	94
FIG. 136	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 2.5 GHz-7.5 GHz)	94

FIG. 137	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 7.5 GHz-10 GHz)	95
FIG. 138	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 10 GHz-15 GHz)	95
FIG. 139	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 15 GHz-20 GHz)	96
FIG. 140	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH1, 20 GHz-26 GHz)	96
FIG. 141	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, CENTER FREQUENCY)	97
FIG. 142	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 30 MHz-1 GHz)	97
FIG. 143	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 1 GHz-2.5 GHz)	98
FIG. 144	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 2.5 GHz-7.5 GHz)	98
FIG. 145	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 7.5 GHz-10 GHz)	99
FIG. 146	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 10 GHz-15 GHz)	99
FIG. 147	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 15 GHz-20 GHz)	100
FIG. 148	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH6, 20 GHz-26 GHz)	100
FIG. 149	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, CENTER FREQUENCY)	101
FIG. 150	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 30 MHz-1 GHz)	101
FIG. 151	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 1 GHz-2.5 GHz)	102
FIG. 152	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 2.5 GHz-7.5 GHz)	102
FIG. 153	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 7.5 GHz-10 GHz)	103
FIG. 154	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 10 GHz-15 GHz)	103
FIG. 155	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 15 GHz-20 GHz)	104
FIG. 156	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH11, 20 GHz-26 GHz)	104
FIG. 157	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, CENTER FREQUENCY)	105
FIG. 158	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 30 MHz-1 GHz)	105
FIG. 159	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 1 GHz-2.5 GHz)	106
FIG. 160	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 2.5 GHz-7.5 GHz)	106
FIG. 161	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 7.5 GHz-10 GHz)	107
FIG. 162	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 10 GHz-15 GHz)	107
FIG. 163	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 15 GHz-20 GHz)	108
FIG. 164	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH12, 20 GHz-26 GHz)	108
FIG. 165	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, CENTER FREQUENCY)	109
FIG. 166	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 30 MHz-1 GHz)	109
FIG. 167	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 1 GHz-2.5 GHz)	110
FIG. 168	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 2.5 GHz-7.5 GHz)	110
FIG. 169	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 7.5 GHz-10 GHz)	111
FIG. 170	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 10 GHz-15 GHz)	111
FIG. 171	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 15 GHz-20 GHz)	112
FIG. 172	CONDUCTED SPURIOUS EMISSION (802.11N-HT20, CH13, 20 GHz-26 GHz)	112
FIG. 173	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, CENTER FREQUENCY)	113
FIG. 174	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 30 MHz-1 GHz)	113
FIG. 175	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 1 GHz-2.5 GHz)	114
FIG. 176	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 2.5 GHz-7.5 GHz)	114
FIG. 177	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 7.5 GHz-10 GHz)	115
FIG. 178	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 10 GHz-15 GHz)	115
FIG. 179	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 15 GHz-20 GHz)	116
FIG. 180	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH3, 20 GHz-26 GHz)	116

FIG. 181	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, CENTER FREQUENCY)	117
FIG. 182	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 30 MHz-1 GHz)	117
FIG. 183	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 1 GHz-2.5 GHz)	118
FIG. 184	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 2.5 GHz-7.5 GHz)	118
FIG. 185	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 7.5 GHz-10 GHz)	119
FIG. 186	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 10 GHz-15 GHz)	119
FIG. 187	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 15GHz-20 GHz)	120
FIG. 188	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH6, 20GHz-26 GHz)	120
FIG. 189	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, CENTER FREQUENCY)	121
FIG. 190	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 30 MHz-1 GHz)	121
FIG. 191	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 1GHz-2.5 GHz)	122
FIG. 192	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 2.5GHz-7.5 GHz)	122
FIG. 193	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 7.5GHz-10 GHz)	123
FIG. 194	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 10GHz-15 GHz)	123
FIG. 195	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 15GHz-20 GHz)	124
FIG. 196	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH9, 20GHz-28 GHz)	124
FIG. 197	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, CENTER FREQUENCY)	125
FIG. 198	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 30 MHz-1 GHz)	125
FIG. 199	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 1 GHz-2.5 GHz)	126
FIG. 200	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 2.5 GHz-7.5 GHz)	126
FIG. 201	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 7.5 GHz-10 GHz)	127
FIG. 202	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 10 GHz-15 GHz)	127
FIG. 203	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 15 GHz-20 GHz)	128
FIG. 204	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH10, 20 GHz-26 GHz)	128
FIG. 205	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, CENTER FREQUENCY)	129
FIG. 206	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 30 MHz-1 GHz)	129
FIG. 207	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 1 GHz-2.5 GHz)	130
FIG. 208	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 2.5 GHz-7.5 GHz)	130
FIG. 209	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 7.5 GHz-10 GHz)	131
FIG. 210	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 10 GHz-15 GHz)	131
FIG. 211	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 15GHz-20 GHz)	132
FIG. 212	CONDUCTED SPURIOUS EMISSION (802.11N-HT40, CH11, 20GHz-26 GHz)	132
A.6.2 TRANSMITTER SPURIOUS EMISSION - RADIATED		133
FIG. 213	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH1, 2.38 GHz - 245GHz	142
FIG. 214	RADIATED SPURIOUS EMISSION (802.11B, CH1, 30 MHz-1 GHz)	142
FIG. 215	RADIATED SPURIOUS EMISSION (802.11B, CH1, 1 GHz-3 GHz)	143
FIG. 216	RADIATED SPURIOUS EMISSION (802.11B, CH1, 3 GHz-18 GHz)	143
FIG. 217	RADIATED SPURIOUS EMISSION (802.11B, CH6, 30 MHz-1 GHz)	144
FIG. 218	RADIATED SPURIOUS EMISSION (802.11B, CH6, 1 GHz-3 GHz)	144
FIG. 219	RADIATED SPURIOUS EMISSION (802.11B, CH6, 3 GHz-18 GHz)	145
FIG. 220	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH11, 2.45 GHz - 2.50GHz	145
FIG. 221	RADIATED SPURIOUS EMISSION (802.11B, CH11, 30 MHz-1 GHz)	146
FIG. 222	RADIATED SPURIOUS EMISSION (802.11B, CH11, 1 GHz-3 GHz)	146
FIG. 223	RADIATED SPURIOUS EMISSION (802.11B, CH11, 3 GHz-18 GHz)	147

FIG. 224	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH12, 2.45 GHz - 2.50GHz.....	147
FIG. 225	RADIATED SPURIOUS EMISSION (802.11B, CH12, 30 MHz-1 GHz)	148
FIG. 226	RADIATED SPURIOUS EMISSION (802.11B, CH12, 1 GHz-3 GHz)	148
FIG. 227	RADIATED SPURIOUS EMISSION (802.11B, CH12, 3 GHz-18 GHz)	149
FIG. 228	RADIATED SPURIOUS EMISSION (POWER): 802.11B, CH13, 2.45 GHz - 2.50GHz.....	149
FIG. 229	RADIATED SPURIOUS EMISSION (802.11B, CH13, 30 MHz-1 GHz)	150
FIG. 230	RADIATED SPURIOUS EMISSION (802.11B, CH13, 1 GHz-3 GHz)	150
FIG. 231	RADIATED SPURIOUS EMISSION (802.11B, CH13, 3 GHz-18 GHz)	151
FIG. 232	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH1, 2.38 GHz - 2.45GHz.....	151
FIG. 233	RADIATED SPURIOUS EMISSION (802.11G, CH1, 30 MHz-1 GHz)	152
FIG. 234	RADIATED SPURIOUS EMISSION (802.11G, CH1, 1 GHz-3 GHz)	152
FIG. 235	RADIATED SPURIOUS EMISSION (802.11G, CH1, 3 GHz-18 GHz)	153
FIG. 236	RADIATED SPURIOUS EMISSION (802.11G, CH6, 30 MHz-1 GHz)	153
FIG. 237	RADIATED SPURIOUS EMISSION (802.11G, CH6, 1 GHz-3 GHz)	154
FIG. 238	RADIATED SPURIOUS EMISSION (802.11G, CH6, 3 GHz-18 GHz)	154
FIG. 239	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH11, 2.45 GHz - 2.50GHz.....	155
FIG. 240	RADIATED SPURIOUS EMISSION (802.11G, CH11, 30 MHz-1 GHz)	155
FIG. 241	RADIATED SPURIOUS EMISSION (802.11G, CH11, 1 GHz-3 GHz).....	156
FIG. 242	RADIATED SPURIOUS EMISSION (802.11G, CH11, 3 GHz-18 GHz).....	156
FIG. 243	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH12, 2.45 GHz - 2.50GHz.....	157
FIG. 244	RADIATED SPURIOUS EMISSION (802.11G, CH12, 30 MHz-1 GHz)	157
FIG. 245	RADIATED SPURIOUS EMISSION (802.11G, CH12, 1 GHz-3 GHz)	158
FIG. 246	RADIATED SPURIOUS EMISSION (802.11G, CH12, 3 GHz-18 GHz)	158
FIG. 247	RADIATED SPURIOUS EMISSION (POWER): 802.11G, CH13, 2.45 GHz - 2.50GHz.....	159
FIG. 248	RADIATED SPURIOUS EMISSION (802.11G, CH13, 30 MHz-1 GHz)	159
FIG. 249	RADIATED SPURIOUS EMISSION (802.11G, CH13, 1 GHz-3 GHz)	160
FIG. 250	RADIATED SPURIOUS EMISSION (802.11G, CH13, 3 GHz-18 GHz)	160
FIG. 251	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHz, CH1, 2.38 GHz - 2.45GHz	161
FIG. 252	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 30 MHz-1 GHz)	161
FIG. 253	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 1 GHz-3 GHz).....	162
FIG. 254	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH1, 3 GHz-18 GHz).....	162
FIG. 255	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 30 MHz-1 GHz)	163
FIG. 256	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 1 GHz-3 GHz).....	163
FIG. 257	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH6, 3 GHz-18 GHz).....	164
FIG. 258	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHz, CH11, 2.45 GHz - 2.50GHz	164
FIG. 259	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 30 MHz-1 GHz).....	165
FIG. 260	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 1 GHz-3 GHz).....	165
FIG. 261	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH11, 3 GHz-18 GHz).....	166
FIG. 262	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHz, CH12, 2.45 GHz - 2.50GHz	166
FIG. 263	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH12, 30 MHz-1 GHz)	167
FIG. 264	RADIATED SPURIOUS EMISSION (802.11N-20MHz, CH12, 1 GHz-3 GHz).....	167

FIG. 265	RADIATED SPURIOUS EMISSION (802.11N-20MHZ, CH12, 3 GHz-18 GHz).....	168
FIG. 266	RADIATED SPURIOUS EMISSION (POWER): 802.11N-20MHZ, CH13, 2.45 GHz - 2.50GHz	168
FIG. 267	RADIATED SPURIOUS EMISSION (802.11N-20MHZ, CH13, 30 MHz-1 GHz)	169
FIG. 268	RADIATED SPURIOUS EMISSION (802.11N-20MHZ, CH13, 1 GHz-3 GHz).....	169
FIG. 269	RADIATED SPURIOUS EMISSION (802.11N-20MHZ, CH13, 3 GHz-18 GHz).....	170
FIG. 270	RADIATED SPURIOUS EMISSION (POWER): 802.11N-40MHZ, CH3, 2.38 GHz - 2.45GHz	170
FIG. 271	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH3, 30 MHz-1 GHz)	171
FIG. 272	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH3, 1 GHz-3 GHz).....	171
FIG. 273	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH3, 3 GHz-18 GHz).....	172
FIG. 274	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH6, 30 MHz-1 GHz)	172
FIG. 275	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH6, 1 GHz-3 GHz).....	173
FIG. 276	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH6, 3 GHz-18 GHz).....	173
FIG. 277	RADIATED SPURIOUS EMISSION (POWER): 802.11N-40MHZ, CH9, 2.45 GHz - 2.50GHz	174
FIG. 278	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH9, 30 MHz-1 GHz)	174
FIG. 279	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH9, 1 GHz-3 GHz).....	175
FIG. 280	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH9, 3 GHz-18 GHz).....	175
FIG. 281	RADIATED SPURIOUS EMISSION (POWER): 802.11N-40MHZ, CH10, 2.45 GHz - 2.50GHz	176
FIG. 282	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH10, 30 MHz-1 GHz)	176
FIG. 283	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH10, 1 GHz-3 GHz).....	177
FIG. 284	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH10, 3 GHz-18 GHz).....	177
FIG. 285	RADIATED SPURIOUS EMISSION (POWER): 802.11N-40MHZ, CH11, 2.45 GHz - 2.50GHz	178
FIG. 286	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH11, 30 MHz-1 GHz).....	178
FIG. 287	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH11, 1 GHz-3 GHz).....	179
FIG. 288	RADIATED SPURIOUS EMISSION (802.11N-40MHZ, CH11, 3 GHz-18 GHz).....	179
FIG. 289	RADIATED SPURIOUS EMISSION (ALL CHANNELS): 18GHz - 26.5GHz	180
A.7.	AC POWERLINE CONDUCTED EMISSION	181
FIG. 290	AC POWERLINE CONDUCTED EMISSION-802.11B WITH CHARGER1	182
FIG. 291	AC POWERLINE CONDUCTED EMISSION-IDLE WITH CHARGER1	183
FIG. 292	AC POWERLINE CONDUCTED EMISSION-802.11B WITH CHARGER2	184
FIG. 293	AC POWERLINE CONDUCTED EMISSION-IDLE WITH CHARGER2	185

1. TEST LABORATORY

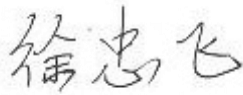
1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT
Address: No 52 Hua Yuanbei Road, Haidian District, Beijing, P.R.China
Postal Code: 100191
Telephone: 008610623046332046
Fax: 008610623046332063

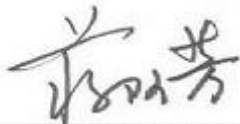
1.2. Project data

Testing Start Date: 2012-12-25
Testing End Date: 2013-12-05

1.3. Signature



Xu Zhongfei
(Prepared this test report)



Jiang Afang
(Reviewed this test report)



Xiao Li
Deputy Director of the laboratory
(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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City: Shanghai
Postal Code: 201203
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Contact: Gong Zhizhou
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Telephone: 0086-21-61460890
Fax: 0086-21-61460602

3. EQUIPMENT UNDER TEST(EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	HSDPA/HSUPA/UMTS dual band / GSM quad bands mobile phone
Type	Comet Hybrid(Beetle Lite JB VF)
Market name	Vodafone 875
FCC ID	RAD376
IC ID	/
With WLAN Function	Yes
Frequency Range	ISM 2400MHz~2483.5MHz
Type of Modulation	DSSS/CCK/OFDM
Number of Channels	13
Antenna	Integral Antenna
MAX Conducted Power	23.47dBm(CCK)
Power Supply	3.8V DC by Battery

Note: Photographs of EUT are shown in ANNEX C of this test report.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	355963050101682	MP	vID3-8
EUT2	355963050101633	MP	vID3-8

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	TLi014A1	/
AE2	Battery	TLiB60B	/
AE3	Battery	CAB31P0000C1	/
AE4	Battery	CAB31P0000C3	/
AE5	Charger	CBA3001AG0C1	/
AE6	Charger	CBA3001AG0C2	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment Under Test (EUT) is a model of HSDPA/HSUPA/UMTS dual band / GSM quad bands mobile phone with integrated antenna. It consists of normal options: Battery and Charger.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. REFERENCE DOCUMENTS FOR TESTING

The following documents listed in this section are referred for testing.

FCC Part15	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	2012
	15.209 Radiated emission limits, general requirements;	Edition
	15.247 Operation within the bands 902-928MHz, 2400-2483.5 MHz, and 5725-5850 MHz.	
ANSI C63.10	Procedures for testing compliance of a wide variety of unlicensed wireless devices	2009

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (a)	/	P
Peak Power Spectral Density	15.247 (d)	/	P
Occupied 6dB Bandwidth	15.247 (d)	/	P
Band Edges Compliance	15.247 (b)	/	P
Transmitter Spurious Emission - Conducted	15.247	/	P
Transmitter Spurious Emission - Radiated	15.247, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

Please refer to **ANNEX A** for detail.

The measurement is made according to Public notice ANSI C63.10.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

TMC has evaluated the test cases requested by the client/manufacture as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

This model is a variant product which market name is ONE TOUCH 4010A; all the test result has been derived from test report of ONE TOUCH 4010A besides channel 12 and channel13 result.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	4.2V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-08	2014-07-07
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-11-1	2014-10-30
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-4-15	2014-08-12
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

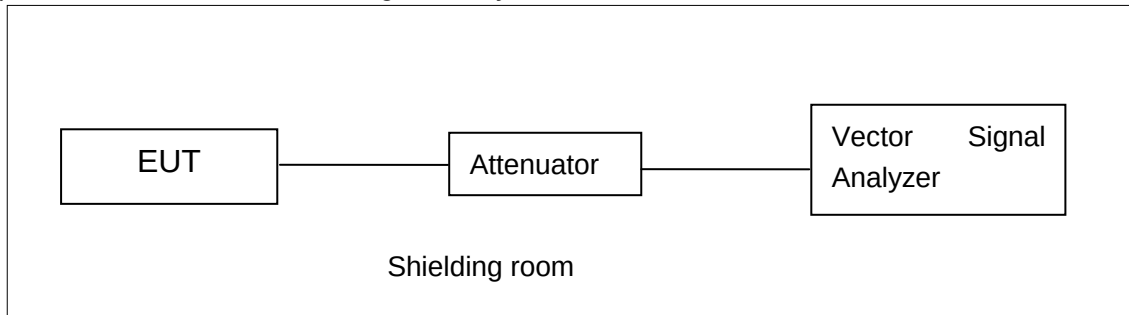
No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2013-11-8	2014-11-7
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2011-11-11	2014-11-10
3	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2011-2-2	2014-2-1
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-7-1	2014-06-30
5	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2011-12-21	2014-12-20
6	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

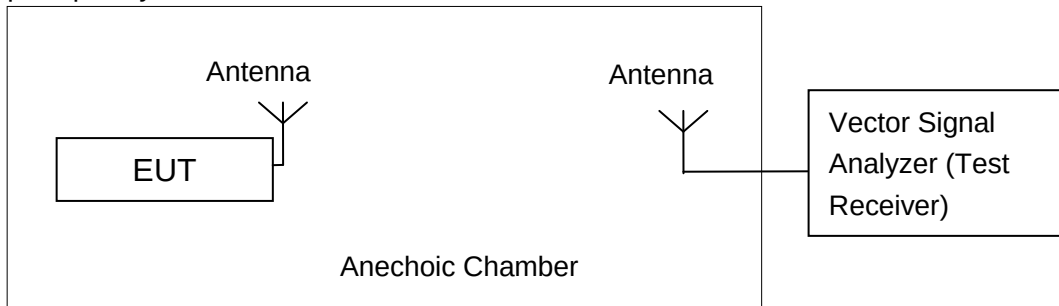


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10

A.2. Maximum Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement is made according to ANSI C63.10, and EUT is operating in continuous transmitting mode.

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

A.2.1. Maximum Peak Output Power-conducted

Measurement Results:

802.11b/g mode

Mode	Data Rate (Mbps)	Test Result (dBm)				
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
802.11b	1	19.41	/	/	18.11	/
	2	19.48	/	/	18.21	/
	5.5	21.07	/	/	19.66	/
	11	22.43	23.47	23.06	20.97	17.41
802.11g	6	21.43	/	/	8.27	/
	9	21.42	/	/	8.25	/
	12	21.25	/	/	8.06	/
	18	21.06	/	/	8.02	/
	24	21.53	/	/	8.54	/
	36	21.57	/	/	8.52	/
	48	21.68	/	/	8.61	/
	54	21.71	20.16	19.67	8.65	8.75

The data rate 11Mbps and 54Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)				
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
802.11n (20MHz)	MCS0	17.77	/	/	8.22	/
	MCS1	18.08	/	/	8.09	/
	MCS2	18.13	/	/	8.01	/
	MCS3	18.69	18.01	17.81	8.59	8.54
	MCS4	18.64	/	/	8.53	/
	MCS5	18.51	/	/	8.54	/
	MCS6	18.57	/	/	8.57	/
	MCS7	18.49	/	/	8.58	/

The data rate MCS3 is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)				
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)	2457MHz (Ch10)	2462MHz (Ch11)
802.11n (40MHz)	MCS0	15.29	/	/	20.47	/
	MCS1	15.44	/	/	20.23	/
	MCS2	15.54	/	/	20.01	/
	MCS3	15.98	15.57	15.43	20.49	20.41
	MCS4	15.95	/	/	20.41	/
	MCS5	15.93	/	/	20.46	/
	MCS6	15.73	/	/	20.43	/
	MCS7	15.71	/	/	20.45	/

The data rate MCS3 is selected as worse condition, and the following cases are performed with this condition.

Conclusion: PASS

A.2.2. Maximum Average Output Power-conducted

802.11b/g mode

Mode	Test Result (dBm)				
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
802.11b	15.86	15.35	14.95	14.92	11.40
802.11g	12.70	12.31	11.96	1.90	2.02

802.11n-HT20 mode

Mode	Test Result (dBm)				
	2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)	2467MHz (Ch12)	2472MHz (Ch13)
802.11n (20MHz)	10.78	10.30	9.85	1.95	2.03

802.11n-HT40 mode

Mode	Test Result (dBm)				
	2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)	2457MHz (Ch10)	2462MHz (Ch11)
802.11n (40MHz)	8.91	8.64	8.30	12.76	12.55

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC CRF Part 15.247(d)	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

Measurement Results:

802.11b/g mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11b	1	Fig.1	-6.21	P
	6	Fig.2	-6.36	P
	11	Fig.3	-6.20	P
	12	Fig.4	-8.88	P
	13	Fig.5	-14.00	P
802.11g	1	Fig.6	-12.55	P
	6	Fig.7	-13.02	P
	11	Fig.8	-13.50	P
	12	Fig.9	-25.61	P
	13	Fig.10	-26.03	P

802.11n-HT20 mode

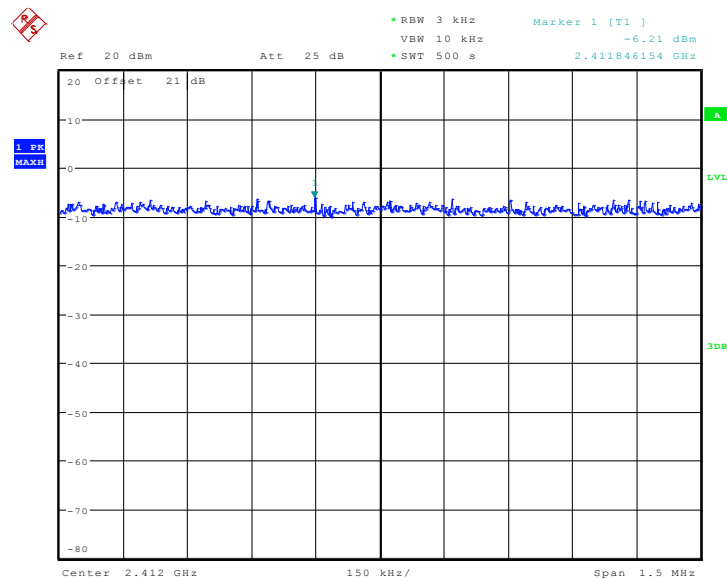
Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11n (20MHz)	1	Fig.11	-12.30	P
	6	Fig.12	-14.31	P
	11	Fig.13	-14.89	P
	12	Fig.14	-26.38	P
	13	Fig.15	-25.80	P

802.11n-HT40 mode

Mode	Channel	Power Spectral Density (dBm/3 kHz)		Conclusion
802.11n (40MHz)	3	Fig.16	-19.59	P
	6	Fig.17	-18.50	P
	9	Fig.18	-19.96	P
	10	Fig.19	-18.40	P
	11	Fig.20	-17.88	P

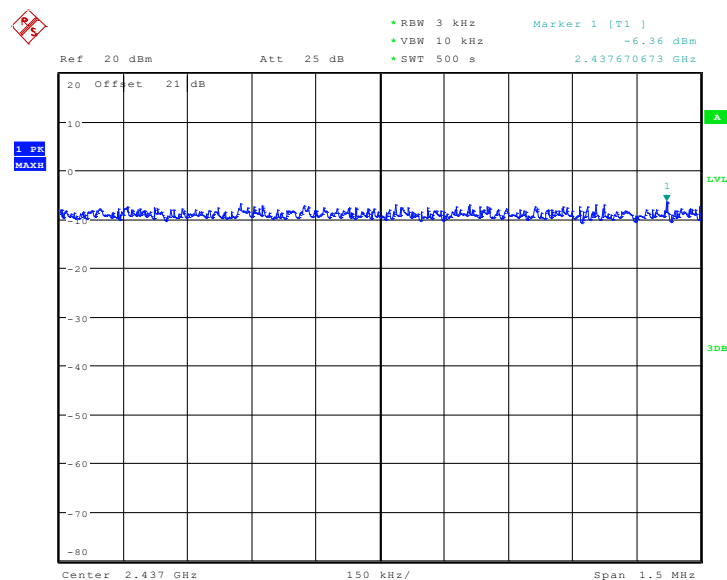
Conclusion: PASS

Test graphs as below:



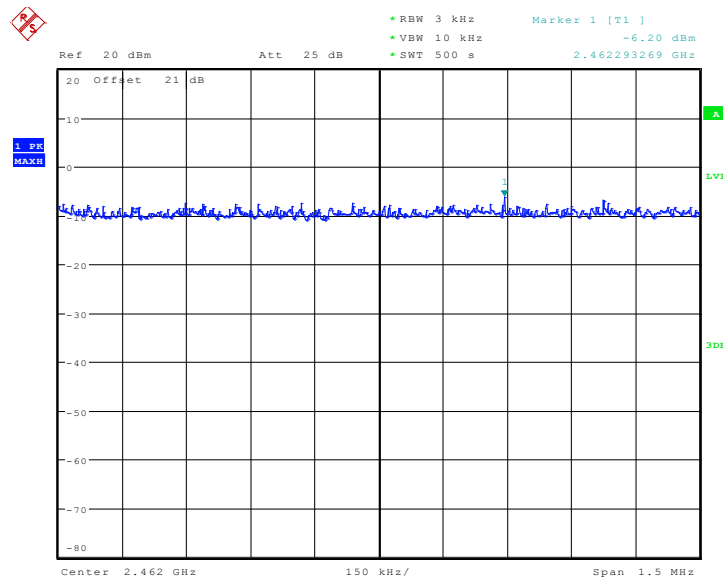
Date: 9.JAN.2013 14:03:50

Fig. 1 Power Spectral Density (802.11b, Ch 1)



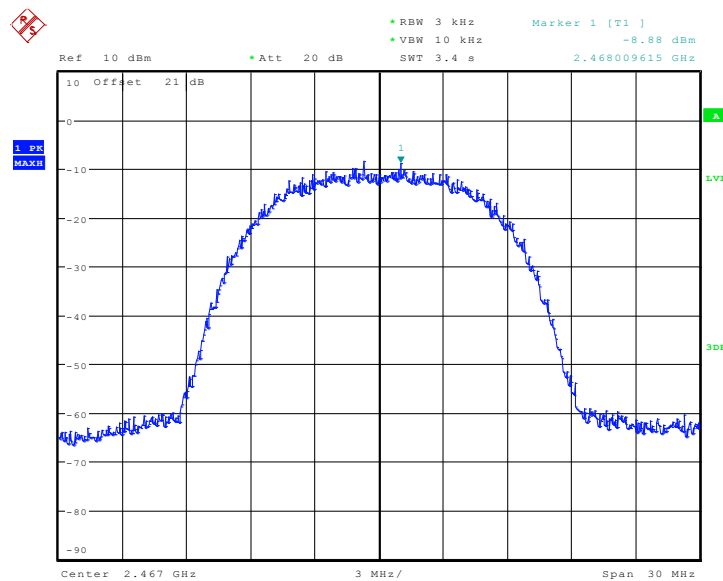
Date: 9.JAN.2013 14:19:59

Fig. 2 Power Spectral Density (802.11b, Ch 6)



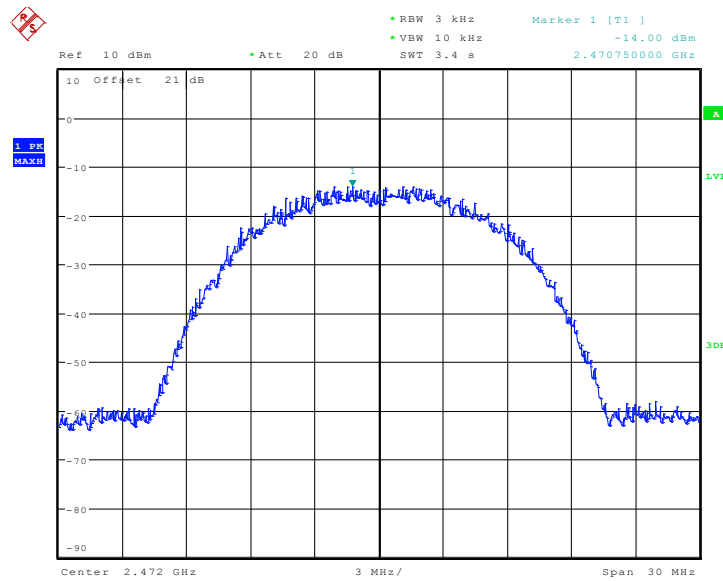
Date: 9.JAN.2013 14:29:29

Fig. 3 Power Spectral Density (802.11b, Ch 11)



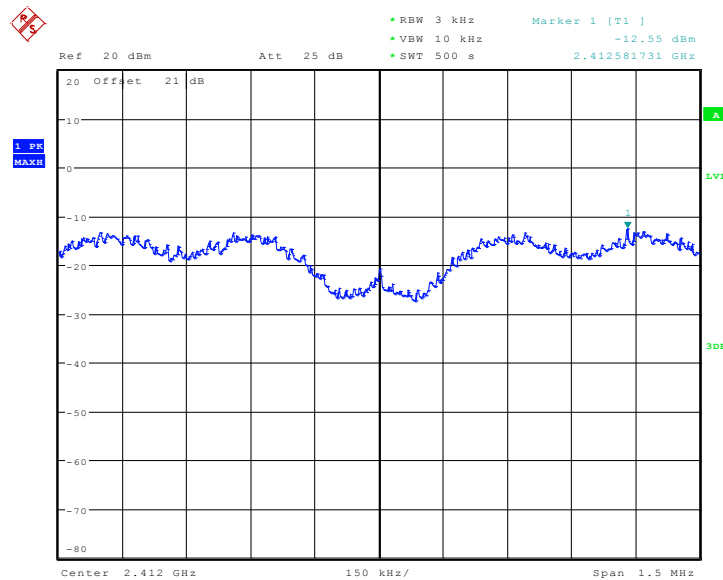
Date: 5.DEC.2013 15:44:03

Fig. 4 Power Spectral Density (802.11b, Ch 12)



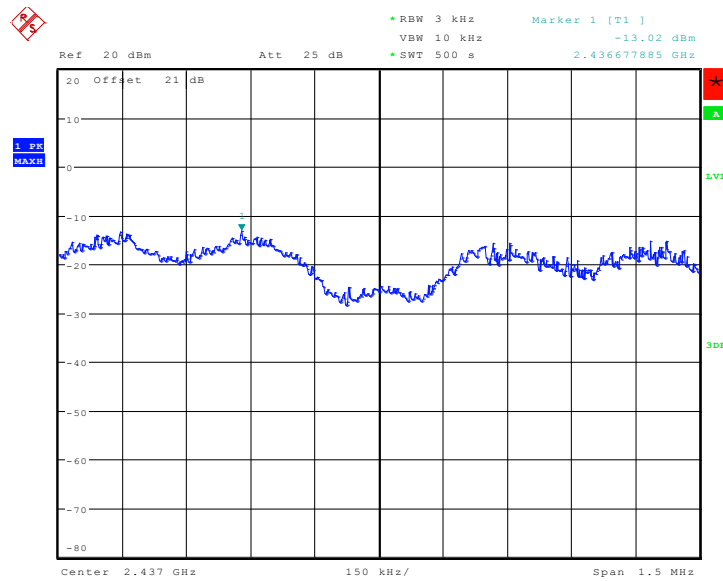
Date: 5.DEC.2013 15:45:11

Fig. 5 Power Spectral Density (802.11b, Ch 13)



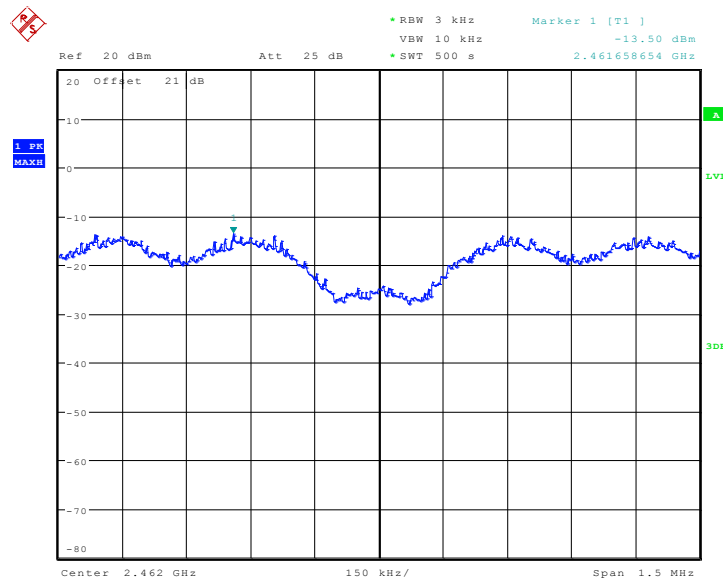
Date: 9.JAN.2013 14:44:29

Fig. 6 Power Spectral Density (802.11g, Ch 1)



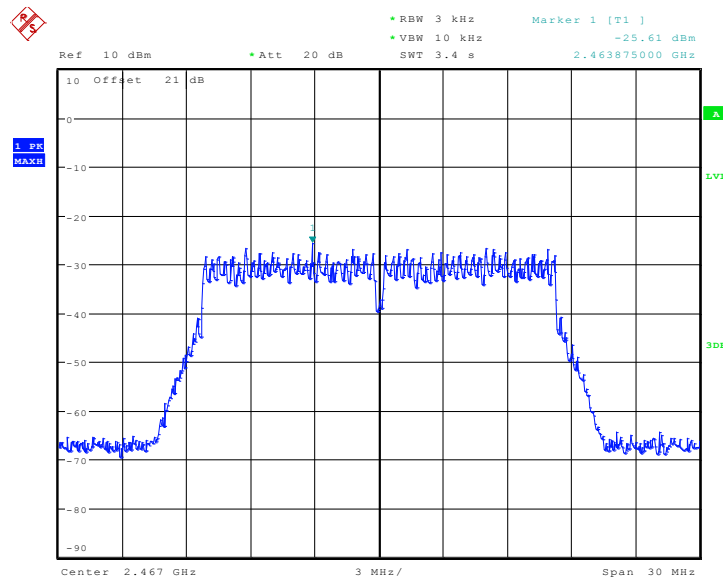
Date: 9.JAN.2013 15:05:30

Fig. 7 Power Spectral Density (802.11g, Ch 6)



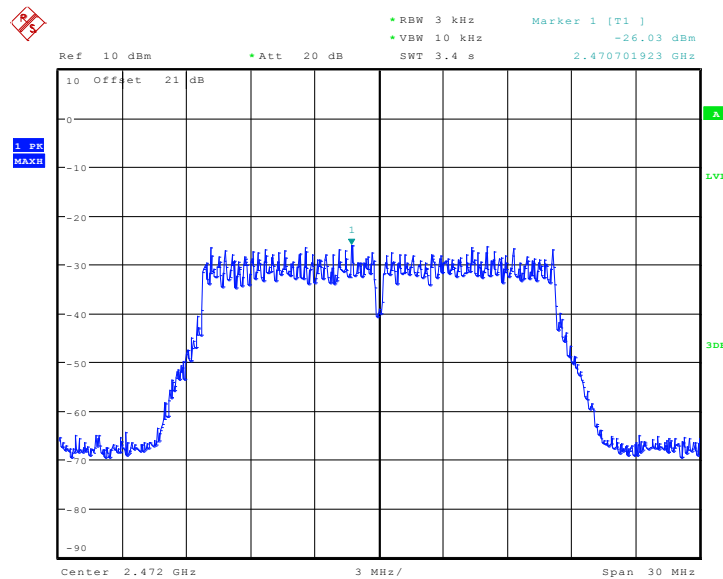
Date: 9.JAN.2013 15:19:13

Fig. 8 Power Spectral Density (802.11g, Ch 11)



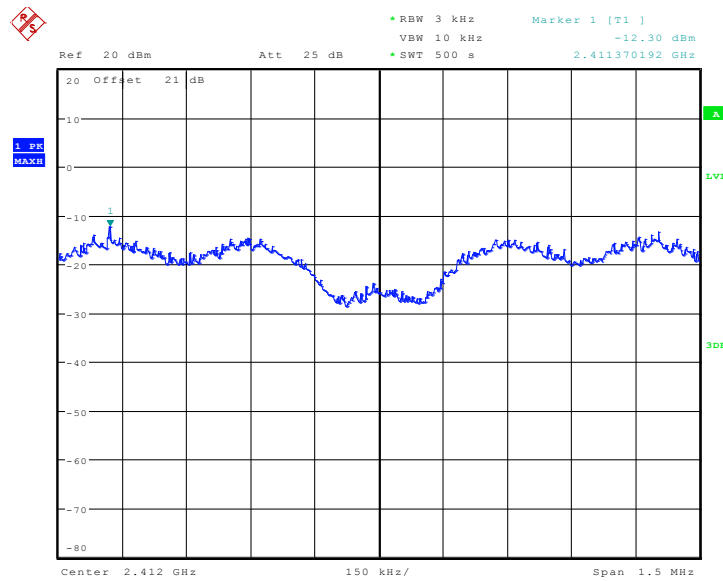
Date: 5.DEC.2013 15:46:31

Fig. 9 Power Spectral Density (802.11g, Ch 12)



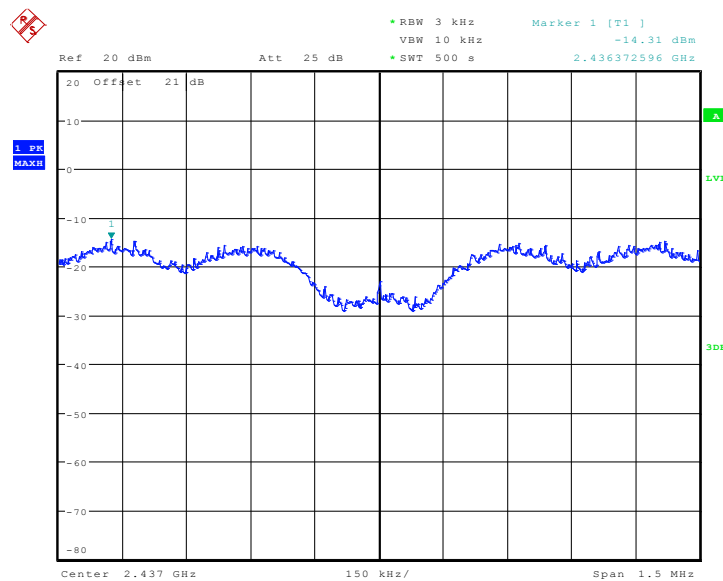
Date: 5.DEC.2013 15:45:49

Fig. 10 Power Spectral Density (802.11g, Ch 13)



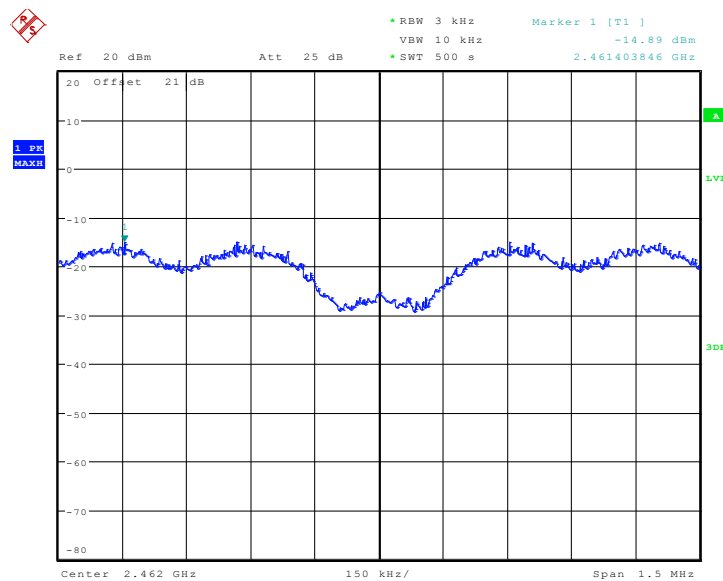
Date: 9.JAN.2013 15:29:35

Fig. 11 Power Spectral Density (802.11n-20MHz, Ch 1)



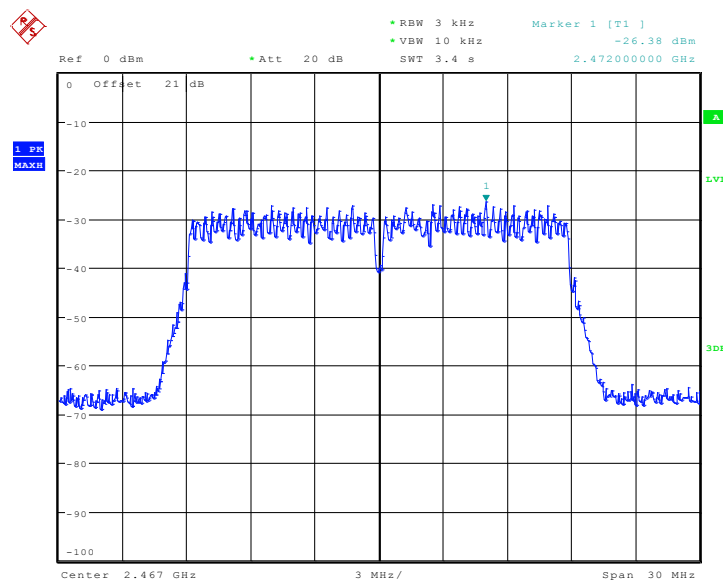
Date: 9.JAN.2013 15:39:39

Fig. 12 Power Spectral Density (802.11n-20MHz, Ch 6)



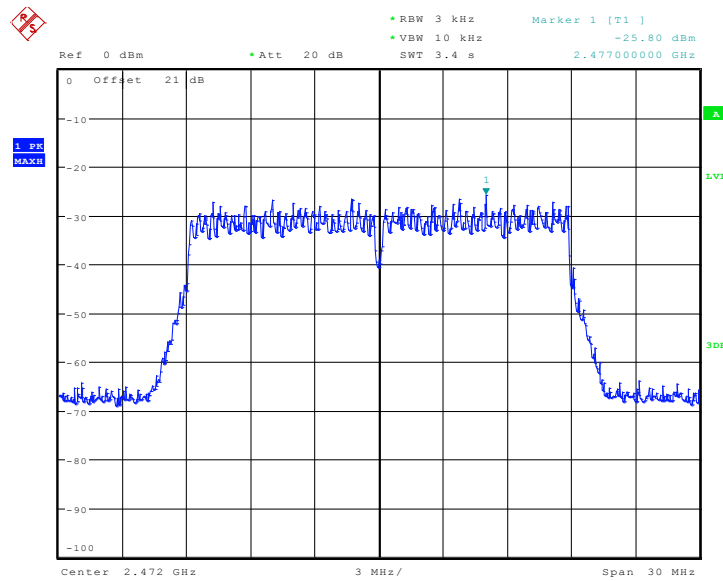
Date: 9.JAN.2013 15:48:44

Fig. 13 Power Spectral Density (802.11n-20MHz, Ch 11)



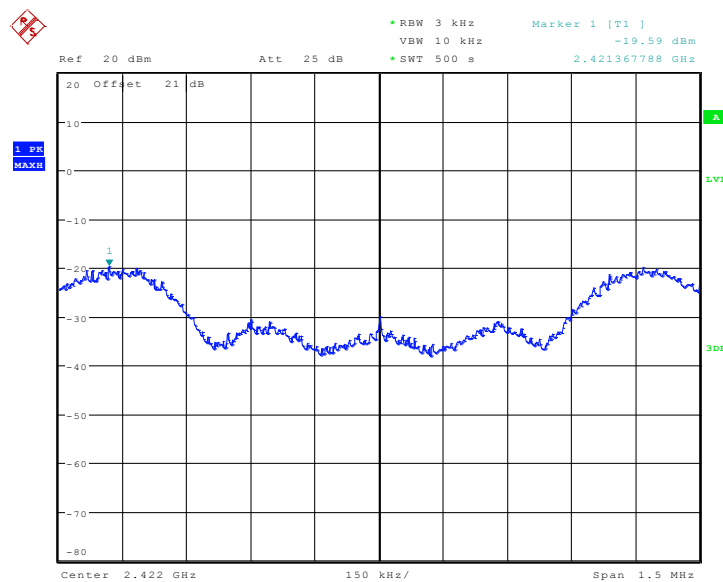
Date: 5.DEC.2013 15:47:15

Fig. 14 Power Spectral Density (802.11n-20MHz, Ch 12)



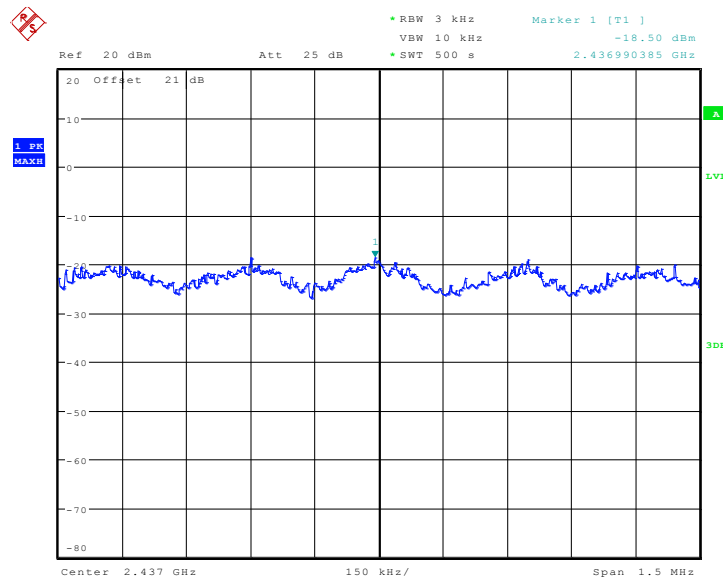
Date: 5.DEC.2013 15:47:54

Fig. 15 Power Spectral Density (802.11n-20MHz, Ch 13)



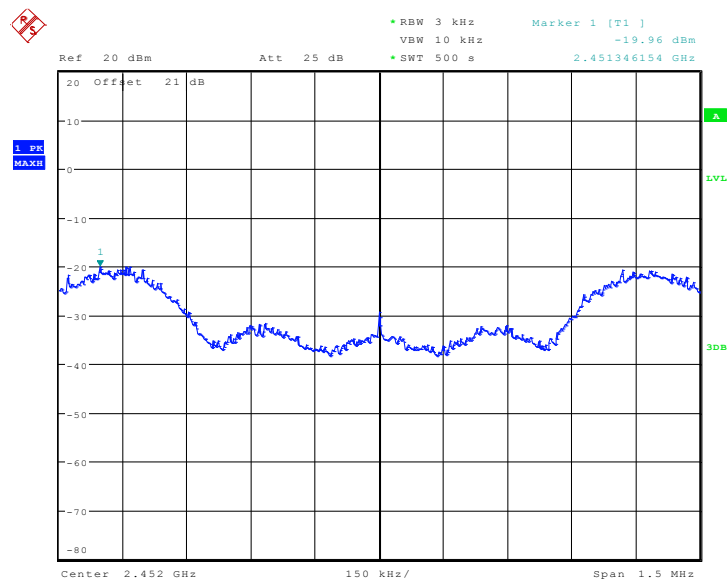
Date: 9.JAN.2013 16:04:39

Fig. 16 Power Spectral Density (802.11n-40MHz, Ch 3)



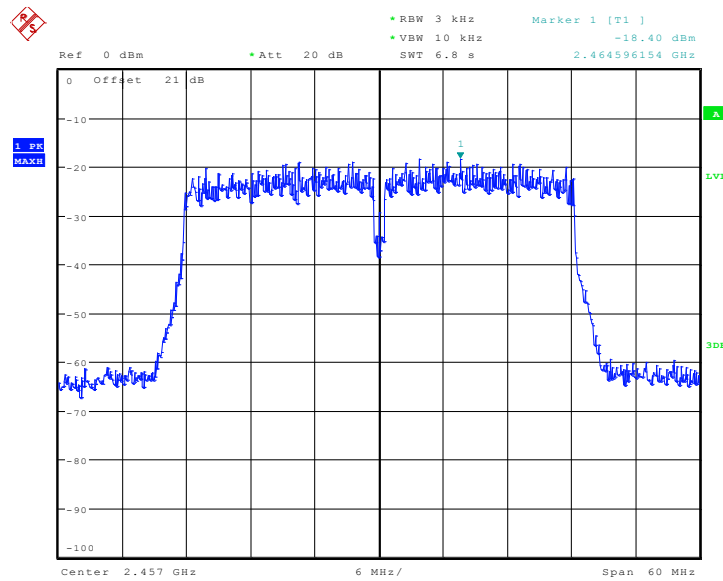
Date: 9.JAN.2013 16:23:50

Fig. 17 Power Spectral Density (802.11n-40MHz, Ch 6)



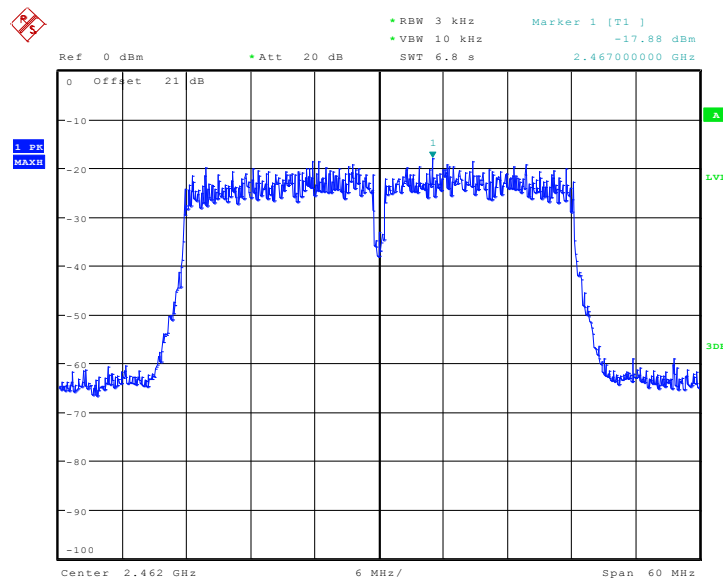
Date: 9.JAN.2013 16:36:42

Fig. 18 Power Spectral Density (802.11n-40MHz, Ch 9)



Date: 5.DEC.2013 15:48:59

Fig. 19 Power Spectral Density (802.11n-40MHz, Ch 10)



Date: 5.DEC.2013 15:49:35

Fig. 20 Power Spectral Density (802.11n-40MHz, Ch 11)

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

802.11b/g mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11b	1	Fig.21	10385	P
	6	Fig.22	10256	P
	11	Fig.23	10513	P
	12	Fig.24	9487	P
	13	Fig.25	10385	P
802.11g	1	Fig.26	17115	P
	6	Fig.27	16923	P
	11	Fig.28	17051	P
	12	Fig.29	16539	P
	13	Fig.30	16603	P

802.11n-HT20 mode

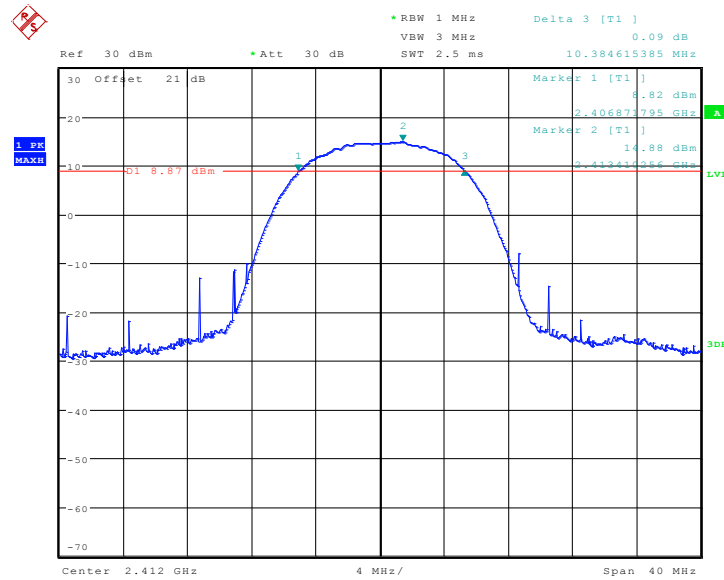
Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (20MHz)	1	Fig.31	18333	P
	6	Fig.32	18141	P
	11	Fig.33	18141	P
	12	Fig.34	17756	P
	13	Fig.35	17756	P

802.11n-HT40 mode

Mode	Channel	Occupied 6dB Bandwidth (kHz)		conclusion
802.11n (40MHz)	3	Fig.36	35769	P
	6	Fig.37	36282	P
	9	Fig.38	36154	P
	10	Fig.39	36282	P
	11	Fig.40	35897	P

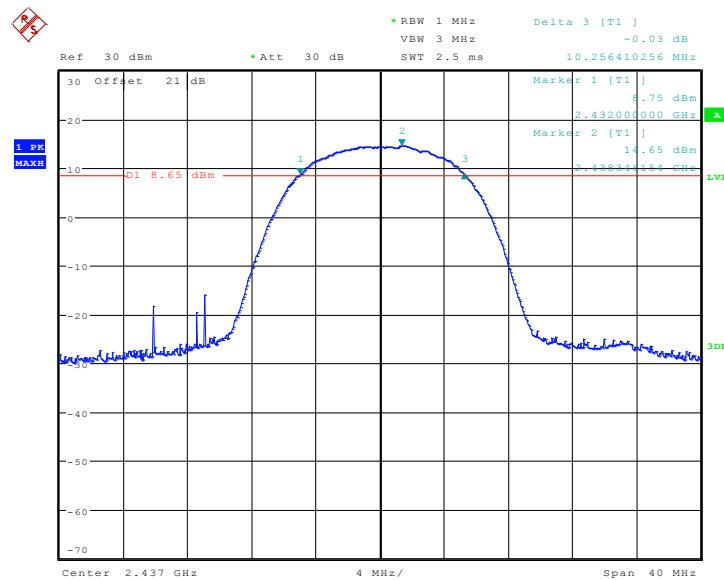
Conclusion: PASS

Test graphs as below:



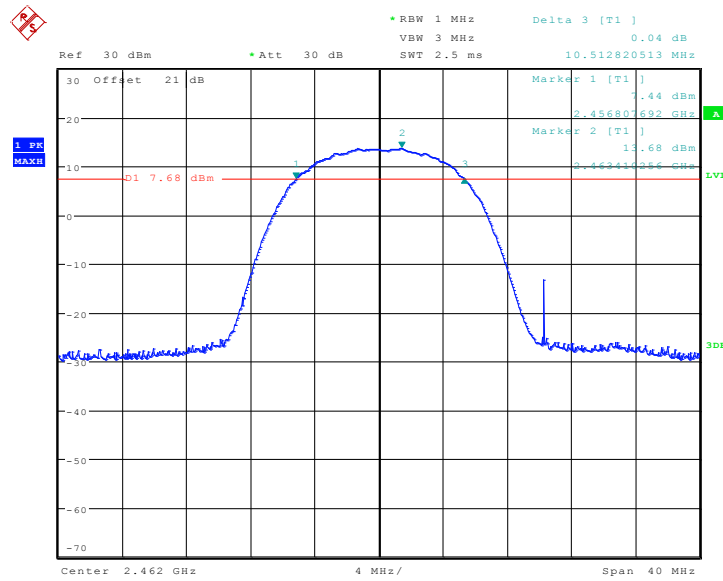
Date: 20.MAY.2013 17:37:58

Fig. 21 Occupied 6dB Bandwidth (802.11b, Ch 1)



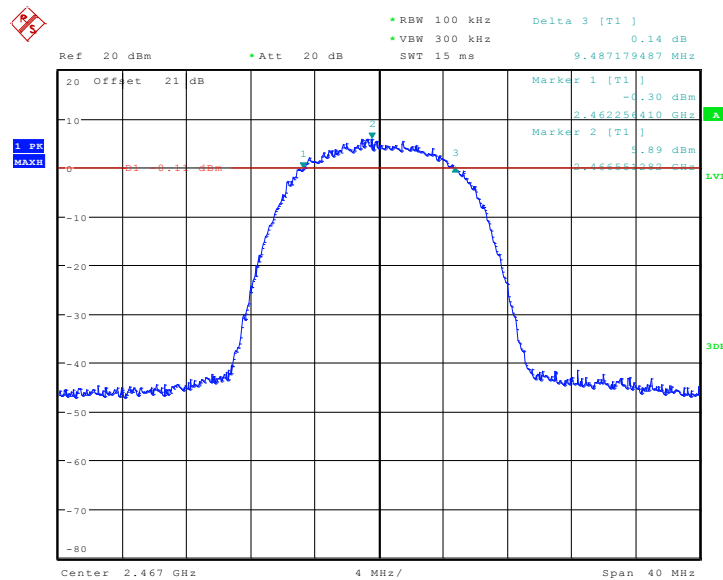
Date: 20.MAY.2013 17:39:38

Fig. 22 Occupied 6dB Bandwidth (802.11b, Ch 6)



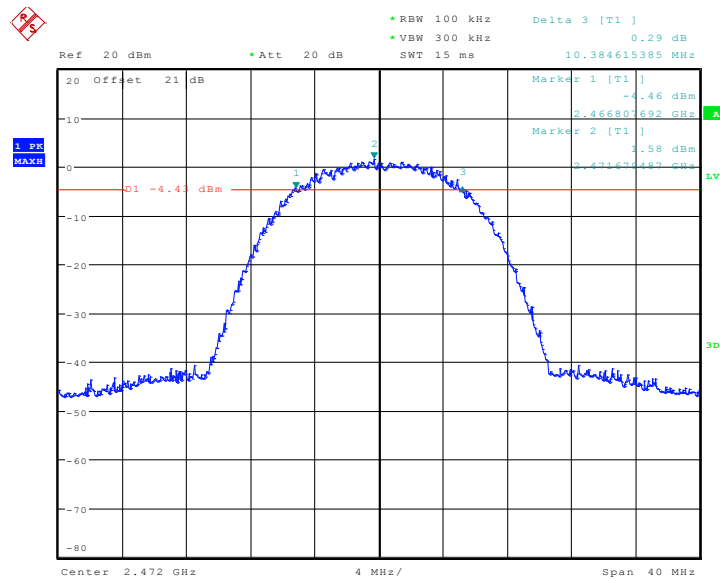
Date: 20.MAY.2013 17:40:55

Fig. 23 Occupied 6dB Bandwidth (802.11b, Ch 11)



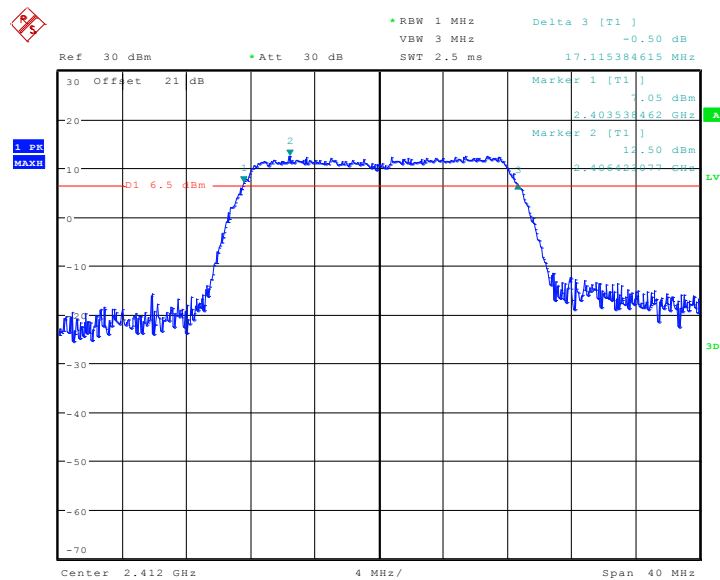
Date: 5.DEC.2013 15:55:16

Fig. 24 Occupied 6dB Bandwidth (802.11b, Ch 12)



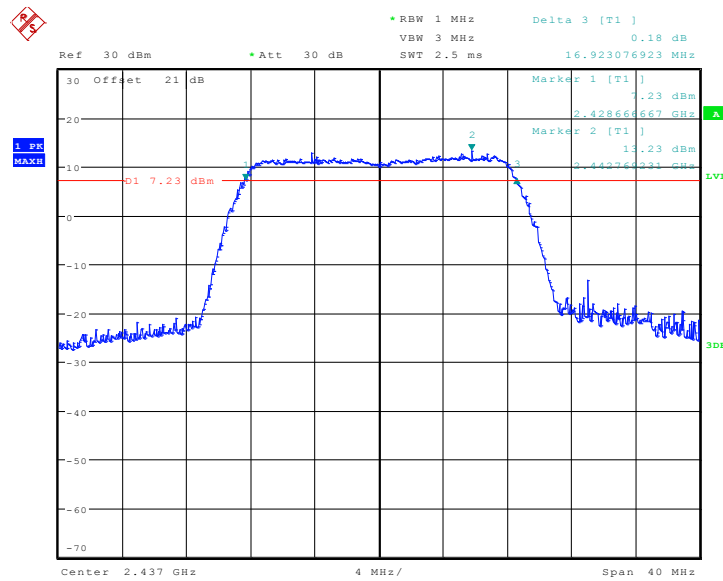
Date: 5.DEC.2013 15:56:58

Fig. 25 Occupied 6dB Bandwidth (802.11b, Ch 13)



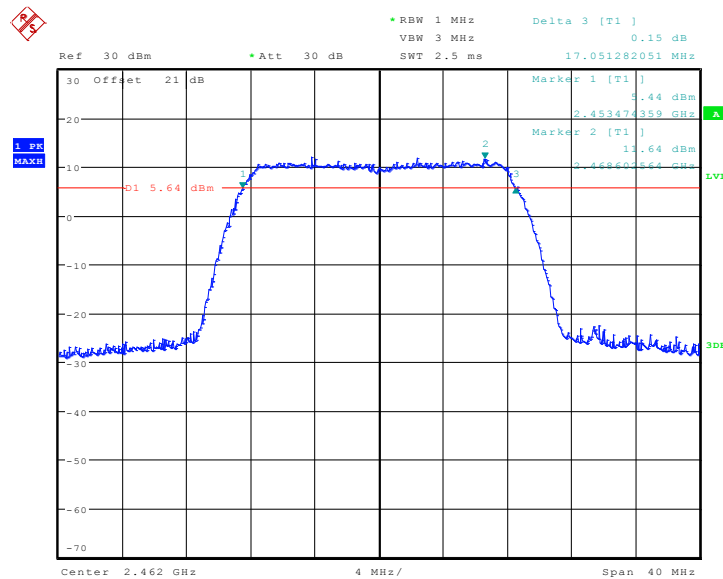
Date: 20.MAY.2013 18:11:01

Fig. 26 Occupied 6dB Bandwidth (802.11g, Ch 1)



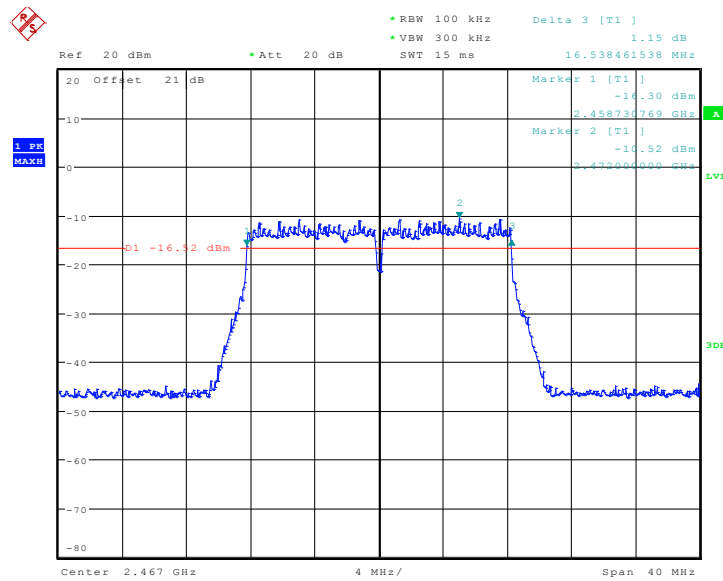
Date: 20.MAY.2013 18:08:10

Fig. 27 Occupied 6dB Bandwidth (802.11g, Ch 6)



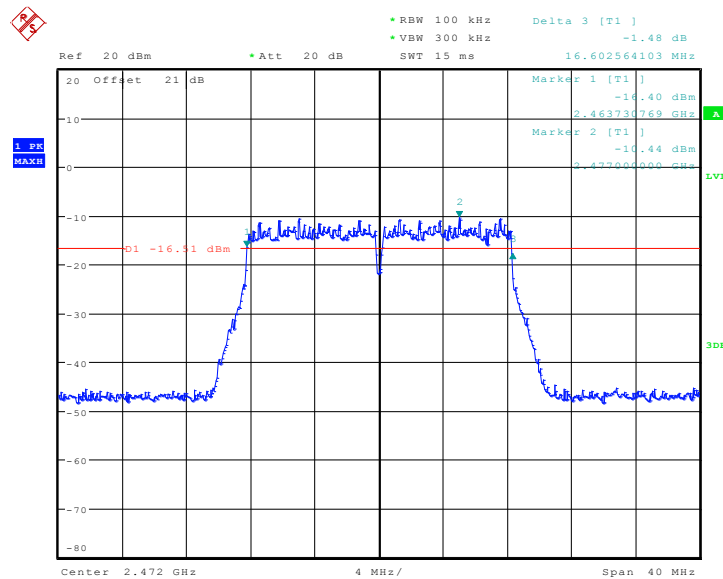
Date: 20.MAY.2013 18:09:35

Fig. 28 Occupied 6dB Bandwidth (802.11g, Ch 11)



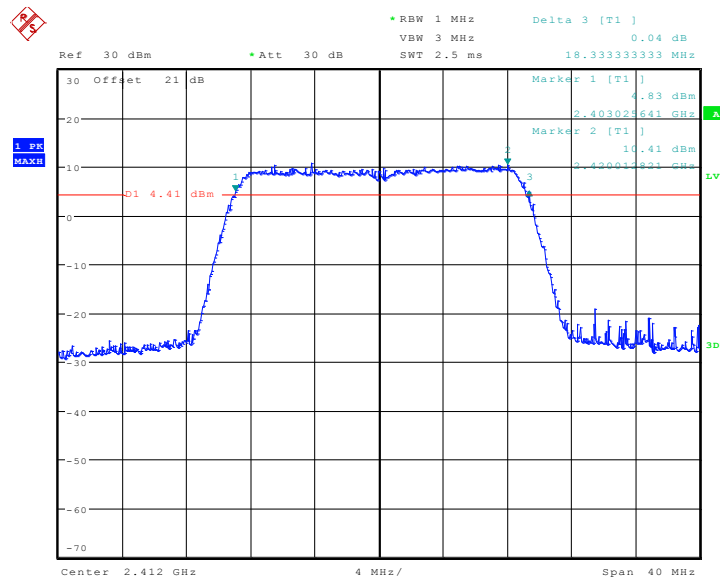
Date: 5.DEC.2013 15:59:36

Fig. 29 Occupied 6dB Bandwidth (802.11g, Ch 12)



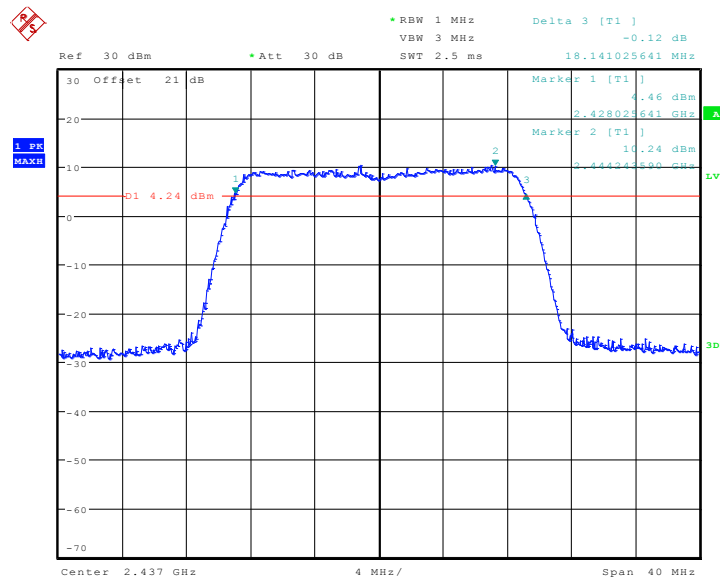
Date: 5.DEC.2013 15:57:56

Fig. 30 Occupied 6dB Bandwidth (802.11g, Ch 13)



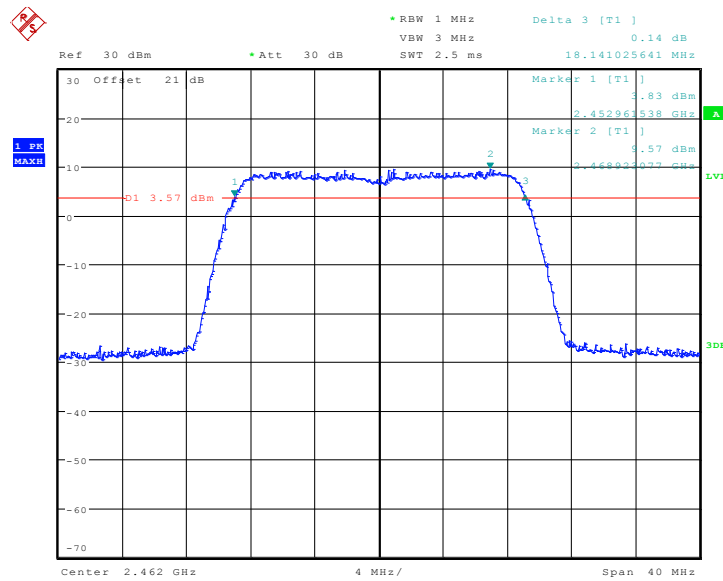
Date: 20.MAY.2013 18:12:19

Fig. 31 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)



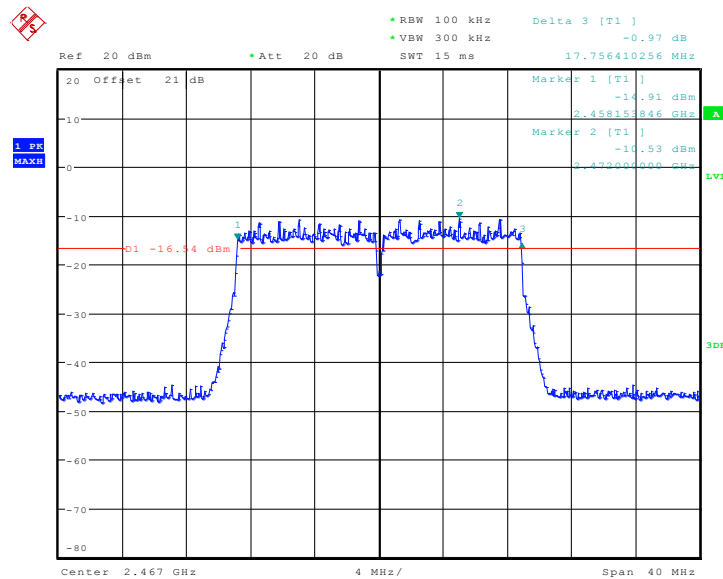
Date: 20.MAY.2013 18:13:18

Fig. 32 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 6)



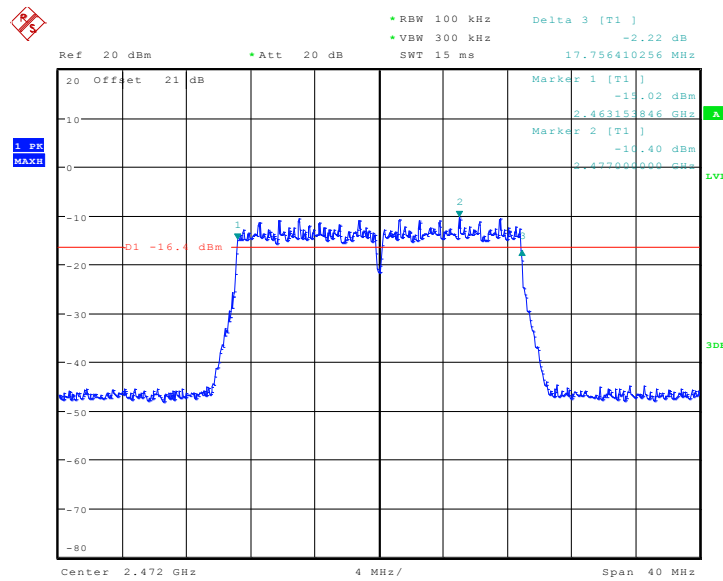
Date: 20.MAY.2013 18:24:04

Fig. 33 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 11)



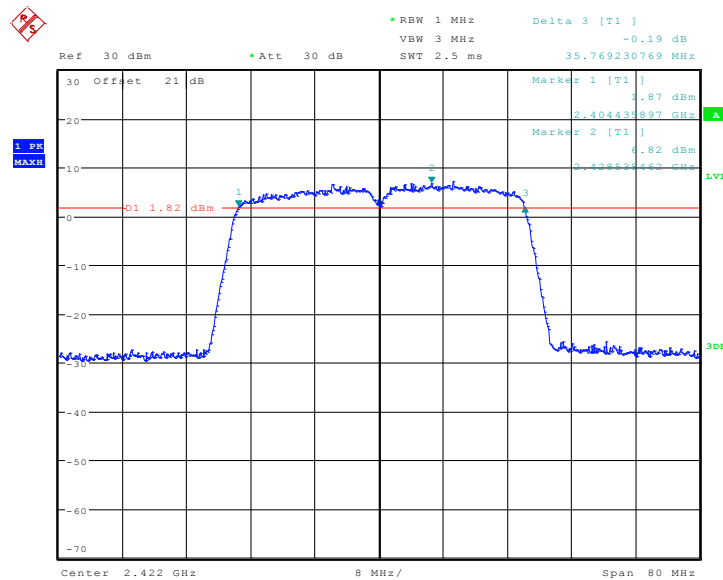
Date: 5.DEC.2013 16:01:06

Fig. 34 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 12)



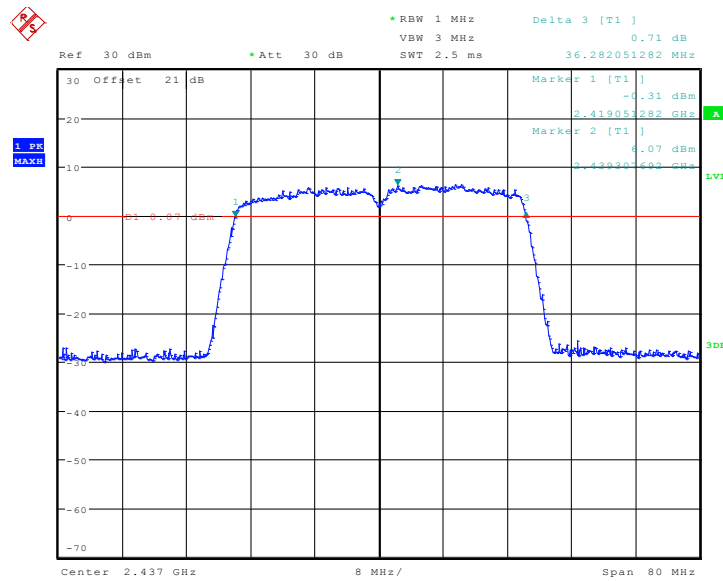
Date: 5.DEC.2013 16:02:01

Fig. 35 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 13)



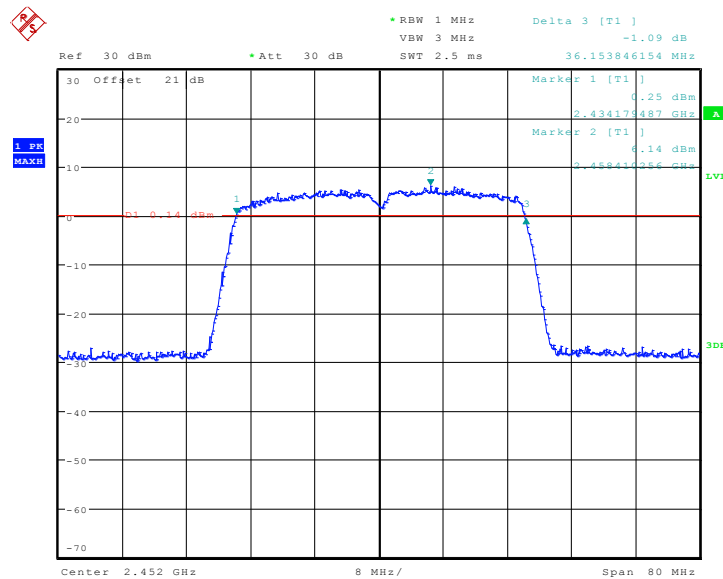
Date: 20.MAY.2013 18:17:15

Fig. 36 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 3)



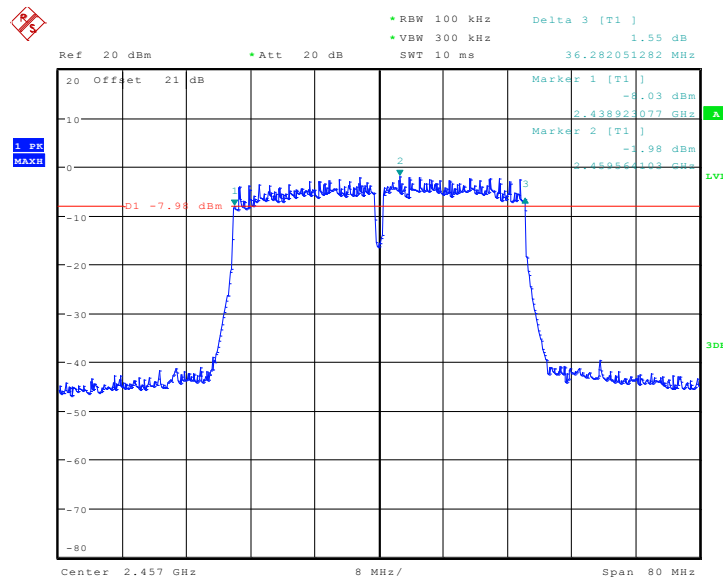
Date: 20.MAY.2013 18:18:30

Fig. 37 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 6)



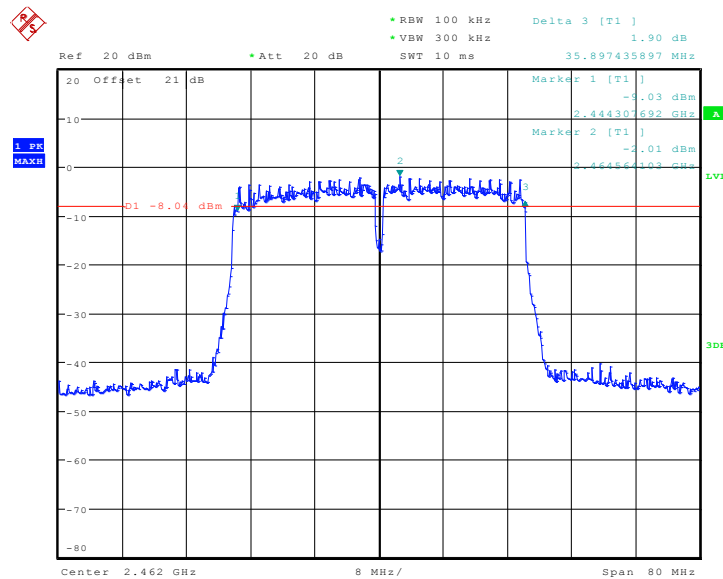
Date: 20.MAY.2013 18:21:27

Fig. 38 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 9)



Date: 5.DEC.2013 15:52:22

Fig. 39 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 10)



Date: 5.DEC.2013 15:53:24

Fig. 40 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 11)

A.5. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

802.11b/g mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.41	P
	11	Fig.42	P
	13	Fig.43	P
802.11g	1	Fig.44	P
	11	Fig.45	P
	13	Fig.46	P

802.11n-HT20 mode

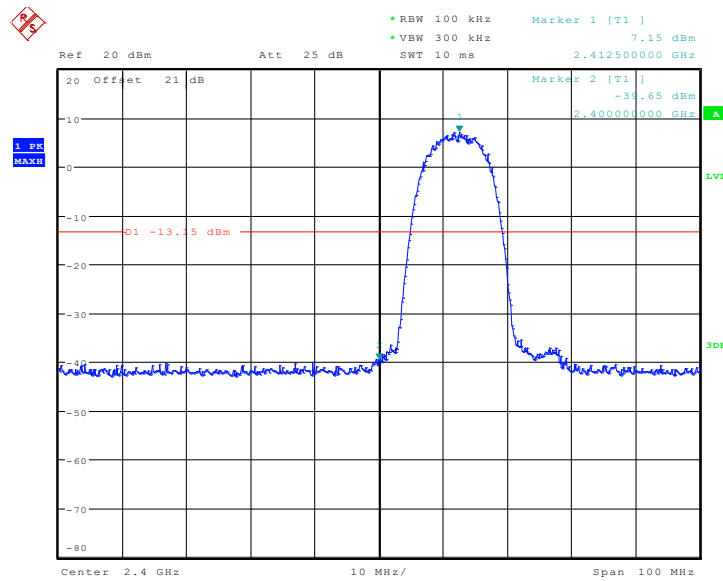
Mode	Channel	Test Results	Conclusion
802.11n (20MHz)	1	Fig.47	P
	11	Fig.48	P
	13	Fig.49	P

802.11n-HT40 mode

Mode	Channel	Test Results	Conclusion
802.11n (40MHz)	3	Fig.50	P
	9	Fig.51	P
	11	Fig.52	P

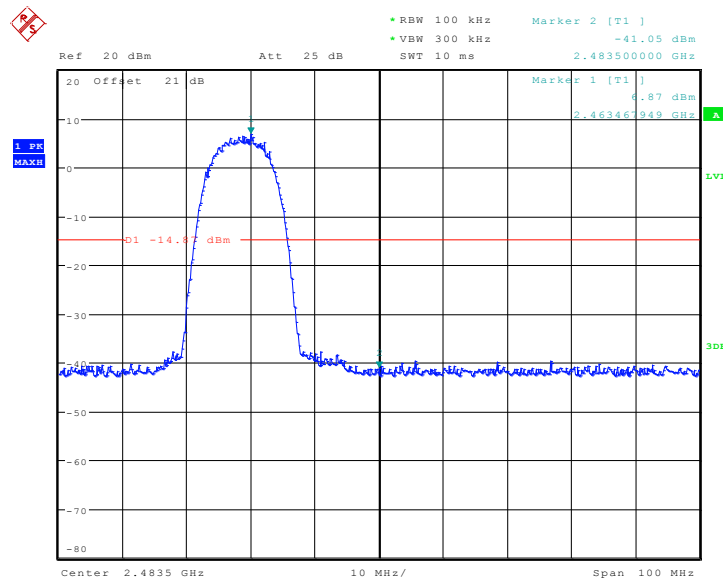
Conclusion: PASS

Test graphs as below:



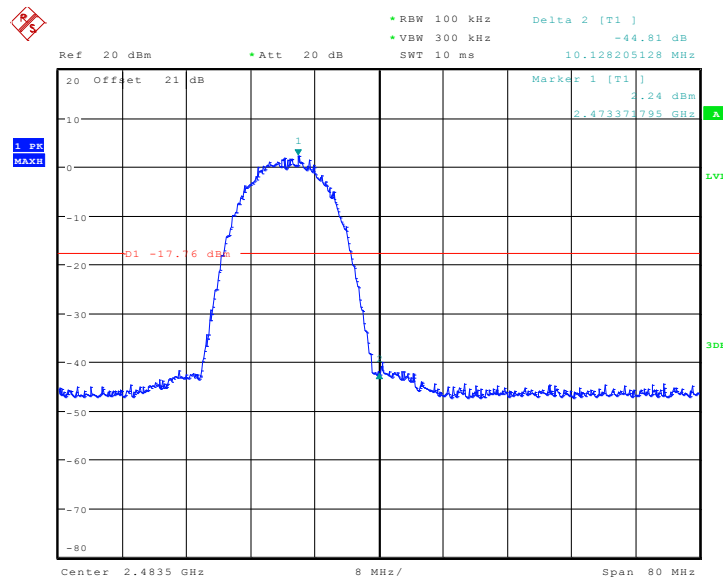
Date: 10.JAN.2013 08:58:25

Fig. 41 Band Edges (802.11b, Ch 1)



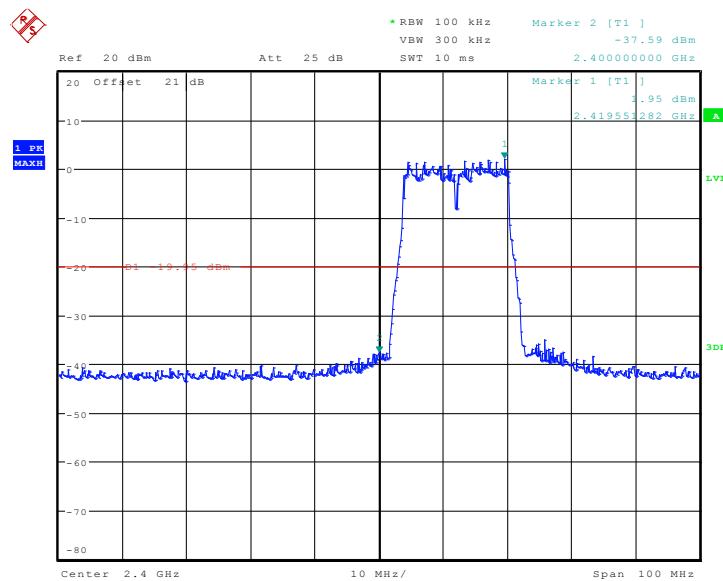
Date: 10.JAN.2013 09:01:22

Fig. 42 Band Edges (802.11b, Ch 11)



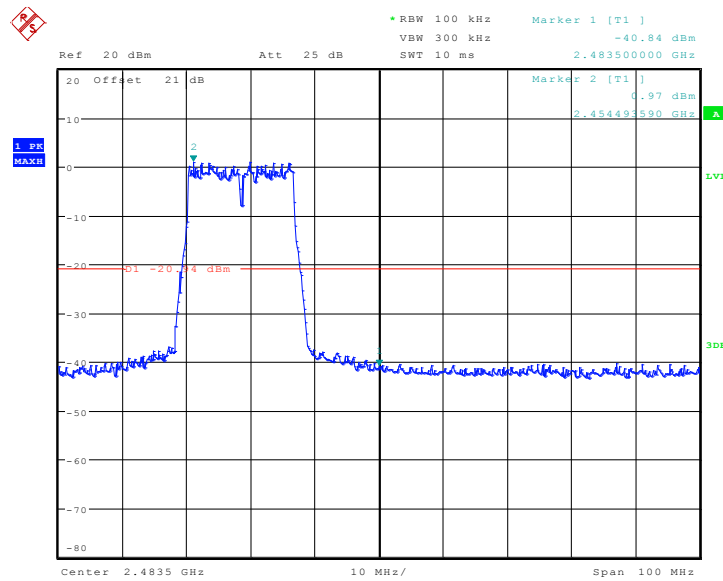
Date: 5.DEC.2013 16:03:33

Fig. 43 Band Edges (802.11b, Ch 13)



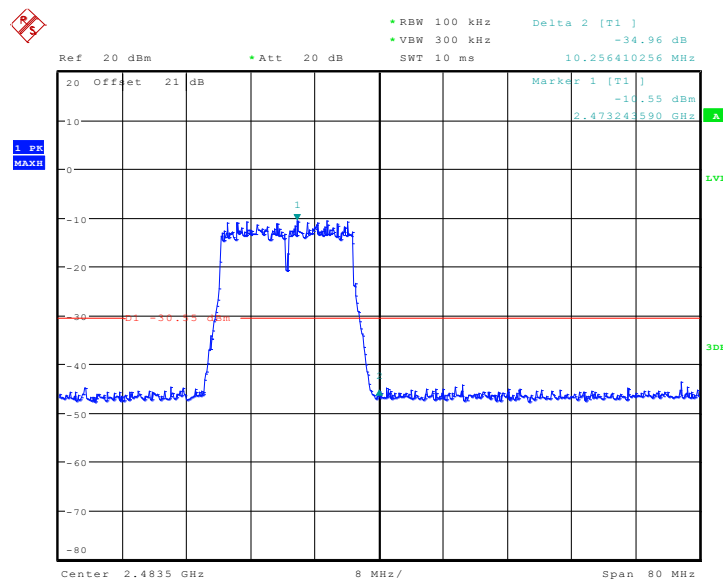
Date: 10.JAN.2013 09:04:21

Fig. 44 Band Edges (802.11g, Ch 1)



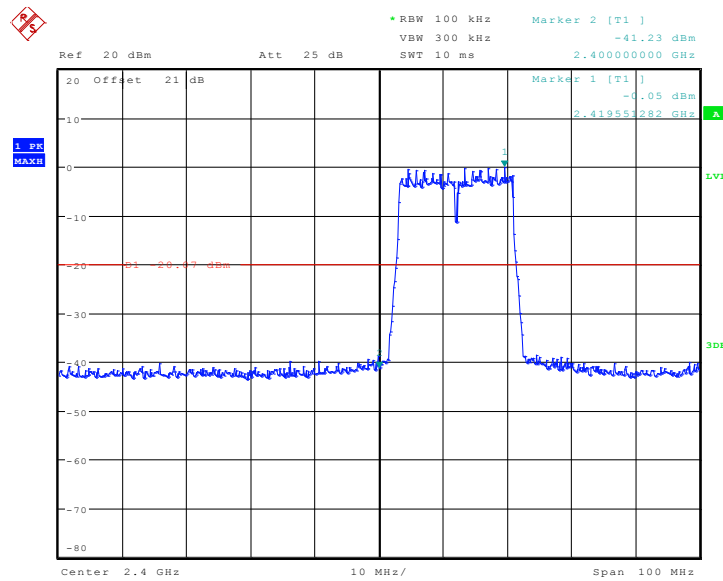
Date: 10.JAN.2013 09:05:46

Fig. 45 Band Edges (802.11g, Ch 11)



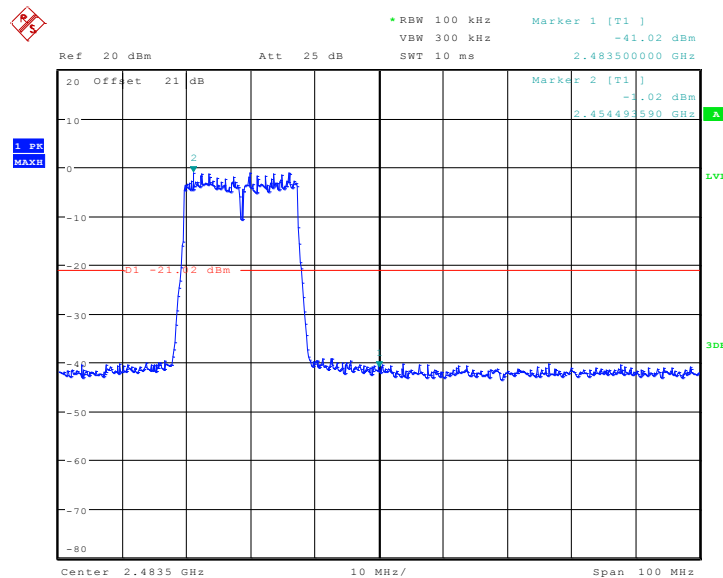
Date: 5.DEC.2013 16:04:27

Fig. 46 Band Edges (802.11g, Ch 13)



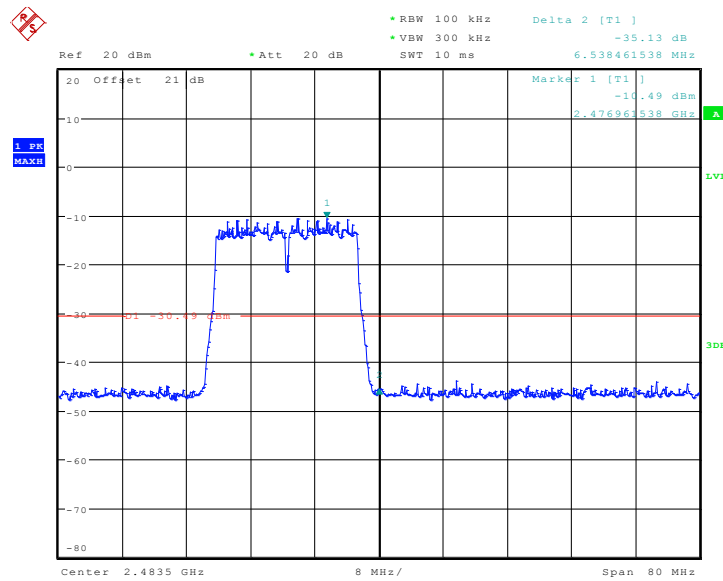
Date: 10.JAN.2013 09:08:07

Fig. 47 Band Edges (802.11n-20MHz, Ch 1)



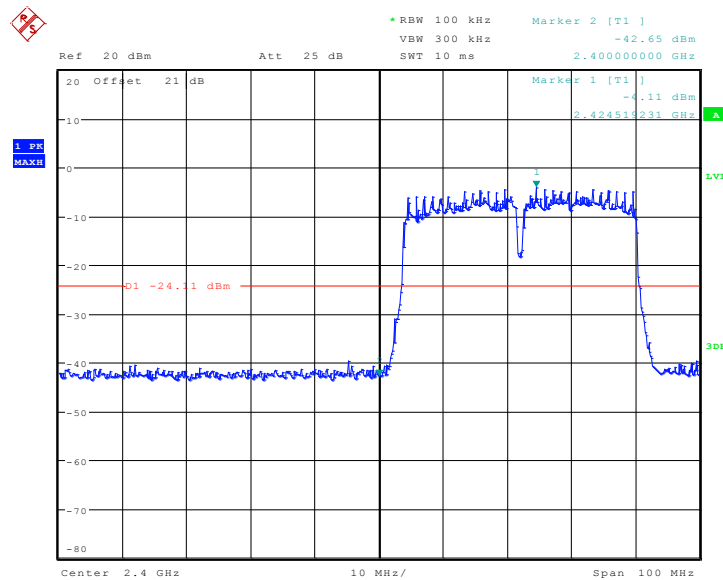
Date: 10.JAN.2013 09:09:17

Fig. 48 Band Edges (802.11n-20MHz, Ch 11)



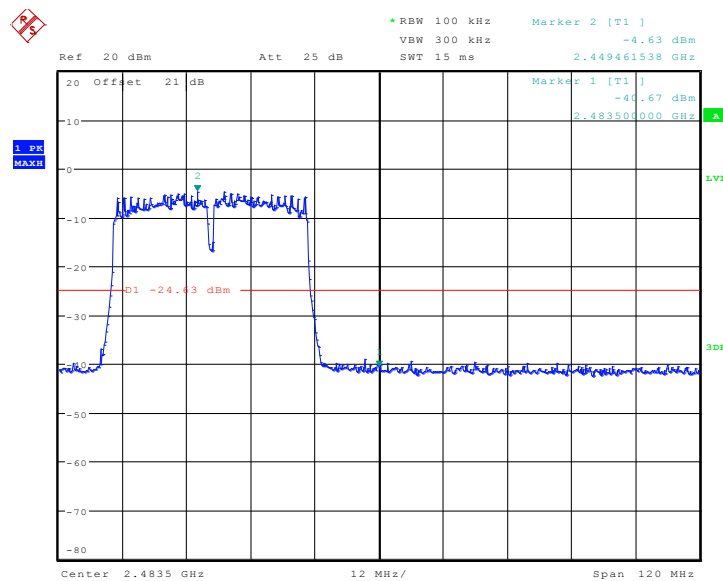
Date: 5.DEC.2013 16:05:11

Fig. 49 Band Edges (802.11n-20MHz, Ch 13)



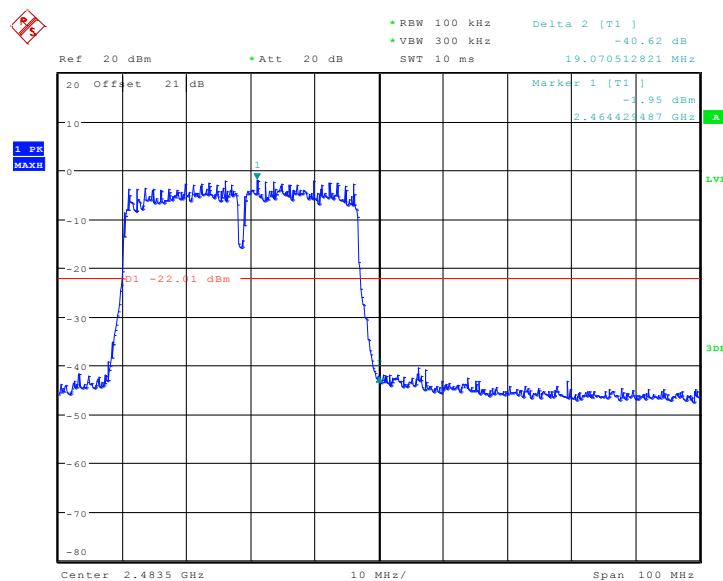
Date: 10..JAN.2013 09:11:58

Fig. 50 Band Edges (802.11n-40MHz, Ch 3)



Date: 10.JAN.2013 09:15:56

Fig. 51 Band Edges (802.11n-40MHz, Ch 9)



Date: 5.DEC.2013 16:06:09

Fig. 52 Band Edges (802.11n-40MHz, Ch 11)

A.6. Transmitter Spurious Emission

A.6.1 Transmitter Spurious Emission - Conducted

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.10

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	0.63
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	0.82
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.55
$8\text{GHz} \leq f \leq 20\text{GHz}$	1.86
$20\text{GHz} \leq f \leq 22\text{GHz}$	1.90
$22\text{GHz} \leq f \leq 26\text{GHz}$	2.20

Measurement Results:

802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.53	P
		30 MHz ~ 1 GHz	Fig.54	P
		1 GHz ~ 2.5 GHz	Fig.55	P
		2.5 GHz ~ 7.5 GHz	Fig.56	P
		7.5 GHz ~ 10 GHz	Fig.57	P
		10 GHz ~ 15 GHz	Fig.58	P
		15 GHz ~ 20 GHz	Fig.59	P
		20 GHz ~ 26 GHz	Fig.60	P
	6	2.437 GHz	Fig.61	P
		30 MHz ~ 1 GHz	Fig.62	P
		1 GHz ~ 2.5 GHz	Fig.63	P
		2.5 GHz ~ 7.5 GHz	Fig.64	P
		7.5 GHz ~ 10 GHz	Fig.65	P
		10 GHz ~ 15 GHz	Fig.66	P
		15 GHz ~ 20 GHz	Fig.67	P
		20 GHz ~ 26 GHz	Fig.68	P
	11	2.462 GHz	Fig.69	P
		30 MHz ~ 1 GHz	Fig.70	P
		1 GHz ~ 2.5 GHz	Fig.71	P
		2.5 GHz ~ 7.5 GHz	Fig.72	P
		7.5 GHz ~ 10 GHz	Fig.73	P
		10 GHz ~ 15 GHz	Fig.74	P
		15 GHz ~ 20 GHz	Fig.75	P
		20 GHz ~ 26 GHz	Fig.76	P
	12	2.467 GHz	Fig.77	P
		30 MHz ~ 1 GHz	Fig.78	P
		1 GHz ~ 2.5 GHz	Fig.79	P
		2.5 GHz ~ 7.5 GHz	Fig.80	P
		7.5 GHz ~ 10 GHz	Fig.81	P
		10 GHz ~ 15 GHz	Fig.82	P
		15 GHz ~ 20 GHz	Fig.83	P
		20 GHz ~ 26 GHz	Fig.84	P
	13	2.472 GHz	Fig.85	P
		30 MHz ~ 1 GHz	Fig.86	P
		1 GHz ~ 2.5 GHz	Fig.87	P
		2.5 GHz ~ 7.5 GHz	Fig.88	P
		7.5 GHz ~ 10 GHz	Fig.89	P
		10 GHz ~ 15 GHz	Fig.90	P
		15 GHz ~ 20 GHz	Fig.91	P
		20 GHz ~ 26 GHz	Fig.92	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.93	P
		30 MHz ~ 1 GHz	Fig.94	P
		1 GHz ~ 2.5 GHz	Fig.95	P
		2.5 GHz ~ 7.5 GHz	Fig.96	P
		7.5 GHz ~ 10 GHz	Fig.97	P
		10 GHz ~ 15 GHz	Fig.98	P
		15 GHz ~ 20 GHz	Fig.99	P
		20 GHz ~ 26 GHz	Fig.100	P
	6	2.437 GHz	Fig.101	P
		30 MHz ~ 1 GHz	Fig.102	P
		1 GHz ~ 2.5 GHz	Fig.103	P
		2.5 GHz ~ 7.5 GHz	Fig.104	P
		7.5 GHz ~ 10 GHz	Fig.105	P
		10 GHz ~ 15 GHz	Fig.106	P
		15 GHz ~ 20 GHz	Fig.107	P
		20 GHz ~ 26 GHz	Fig.108	P
	11	2.462 GHz	Fig.109	P
		30 MHz ~ 1 GHz	Fig.110	P
		1 GHz ~ 2.5 GHz	Fig.111	P
		2.5 GHz ~ 7.5 GHz	Fig.112	P
		7.5 GHz ~ 10 GHz	Fig.113	P
		10 GHz ~ 15 GHz	Fig.114	P
		15 GHz ~ 20 GHz	Fig.115	P
		20 GHz ~ 26 GHz	Fig.116	P
	12	2.467 GHz	Fig.117	P
		30 MHz ~ 1 GHz	Fig.118	P
		1 GHz ~ 2.5 GHz	Fig.119	P
		2.5 GHz ~ 7.5 GHz	Fig.120	P
		7.5 GHz ~ 10 GHz	Fig.121	P
		10 GHz ~ 15 GHz	Fig.122	P
		15 GHz ~ 20 GHz	Fig.123	P
		20 GHz ~ 26 GHz	Fig.124	P
	13	2.472 GHz	Fig.125	P
		30 MHz ~ 1 GHz	Fig.126	P
		1 GHz ~ 2.5 GHz	Fig.127	P
		2.5 GHz ~ 7.5 GHz	Fig.128	P
		7.5 GHz ~ 10 GHz	Fig.129	P
		10 GHz ~ 15 GHz	Fig.130	P
		15 GHz ~ 20 GHz	Fig.131	P
		20 GHz ~ 26 GHz	Fig.132	P

802.11n-HT20 mode

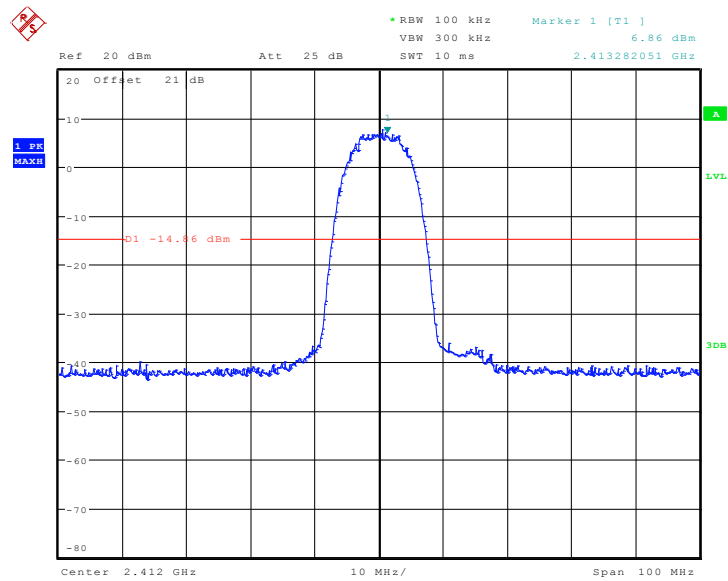
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412 GHz	Fig.133	P
		30 MHz ~ 1 GHz	Fig.134	P
		1 GHz ~ 2.5 GHz	Fig.135	P
		2.5 GHz ~ 7.5 GHz	Fig.136	P
		7.5 GHz ~ 10 GHz	Fig.137	P
		10 GHz ~ 15 GHz	Fig.138	P
		15 GHz ~ 20 GHz	Fig.139	P
		20 GHz ~ 26 GHz	Fig.140	P
	6	2.437 GHz	Fig.141	P
		30 MHz ~ 1 GHz	Fig.142	P
		1 GHz ~ 2.5 GHz	Fig.143	P
		2.5 GHz ~ 7.5 GHz	Fig.144	P
		7.5 GHz ~ 10 GHz	Fig.145	P
		10 GHz ~ 15 GHz	Fig.146	P
		15 GHz ~ 20 GHz	Fig.147	P
		20 GHz ~ 26 GHz	Fig.148	P
	11	2.462 GHz	Fig.149	P
		30 MHz ~ 1 GHz	Fig.150	P
		1 GHz ~ 2.5 GHz	Fig.151	P
		2.5 GHz ~ 7.5 GHz	Fig.152	P
		7.5 GHz ~ 10 GHz	Fig.153	P
		10 GHz ~ 15 GHz	Fig.154	P
		15 GHz ~ 20 GHz	Fig.155	P
		20 GHz ~ 26 GHz	Fig.156	P
	12	2.467 GHz	Fig.157	P
		30 MHz ~ 1 GHz	Fig.158	P
		1 GHz ~ 2.5 GHz	Fig.159	P
		2.5 GHz ~ 7.5 GHz	Fig.160	P
		7.5 GHz ~ 10 GHz	Fig.161	P
		10 GHz ~ 15 GHz	Fig.162	P
		15 GHz ~ 20 GHz	Fig.163	P
		20 GHz ~ 26 GHz	Fig.164	P
	13	2.472 GHz	Fig.165	P
		30 MHz ~ 1 GHz	Fig.166	P
		1 GHz ~ 2.5 GHz	Fig.167	P
		2.5 GHz ~ 7.5 GHz	Fig.168	P
		7.5 GHz ~ 10 GHz	Fig.169	P
		10 GHz ~ 15 GHz	Fig.170	P
		15 GHz ~ 20 GHz	Fig.171	P
		20 GHz ~ 26 GHz	Fig.172	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (40MHz)	3	2.422 GHz	Fig.173	P
		30 MHz ~ 1 GHz	Fig.174	P
		1 GHz ~ 2.5 GHz	Fig.175	P
		2.5 GHz ~ 7.5 GHz	Fig.176	P
		7.5 GHz ~ 10 GHz	Fig.177	P
		10 GHz ~ 15 GHz	Fig.178	P
		15 GHz ~ 20 GHz	Fig.179	P
		20 GHz ~ 26 GHz	Fig.180	P
	6	2.437 GHz	Fig.181	P
		30 MHz ~ 1 GHz	Fig.182	P
		1 GHz ~ 2.5 GHz	Fig.183	P
		2.5 GHz ~ 7.5 GHz	Fig.184	P
		7.5 GHz ~ 10 GHz	Fig.185	P
		10 GHz ~ 15 GHz	Fig.186	P
		15 GHz ~ 20 GHz	Fig.187	P
		20 GHz ~ 26 GHz	Fig.188	P
	9	2.452 GHz	Fig.189	P
		30 MHz ~ 1 GHz	Fig.190	P
		1 GHz ~ 2.5 GHz	Fig.191	P
		2.5 GHz ~ 7.5 GHz	Fig.192	P
		7.5 GHz ~ 10 GHz	Fig.193	P
		10 GHz ~ 15 GHz	Fig.194	P
		15 GHz ~ 20 GHz	Fig.195	P
		20 GHz ~ 26 GHz	Fig.196	P
	10	2.457 GHz	Fig.197	P
		30 MHz ~ 1 GHz	Fig.198	P
		1 GHz ~ 2.5 GHz	Fig.199	P
		2.5 GHz ~ 7.5 GHz	Fig.200	P
		7.5 GHz ~ 10 GHz	Fig.201	P
		10 GHz ~ 15 GHz	Fig.202	P
		15 GHz ~ 20 GHz	Fig.203	P
		20 GHz ~ 26 GHz	Fig.204	P
	11	2.462 GHz	Fig.205	P
		30 MHz ~ 1 GHz	Fig.206	P
		1 GHz ~ 2.5 GHz	Fig.207	P
		2.5 GHz ~ 7.5 GHz	Fig.208	P
		7.5 GHz ~ 10 GHz	Fig.209	P
		10 GHz ~ 15 GHz	Fig.210	P
		15 GHz ~ 20 GHz	Fig.211	P
		20 GHz ~ 26 GHz	Fig.212	P

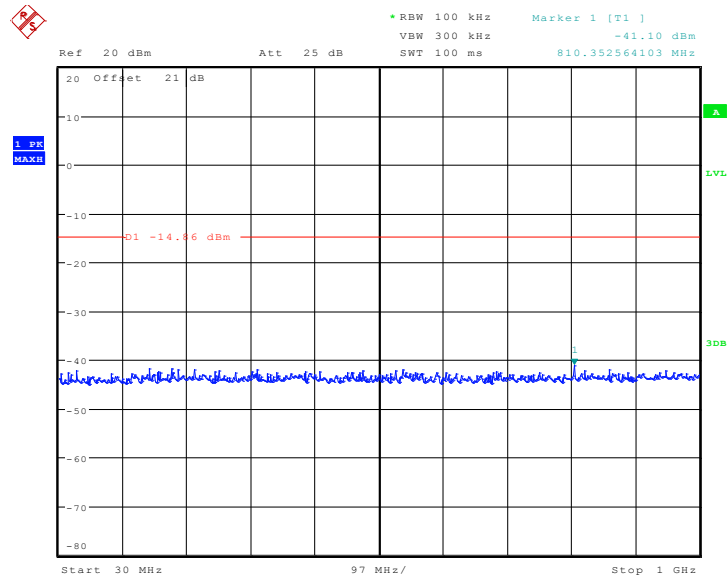
Conclusion: PASS

Test graphs as below:



Date: 10.JAN.2013 09:44:01

Fig. 53 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)



Date: 10.JAN.2013 09:44:48

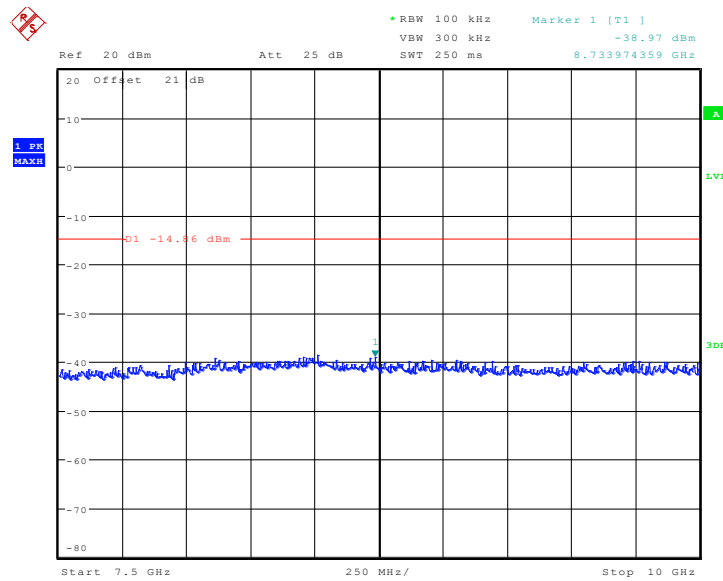
Fig. 54 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)



Fig. 55 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)

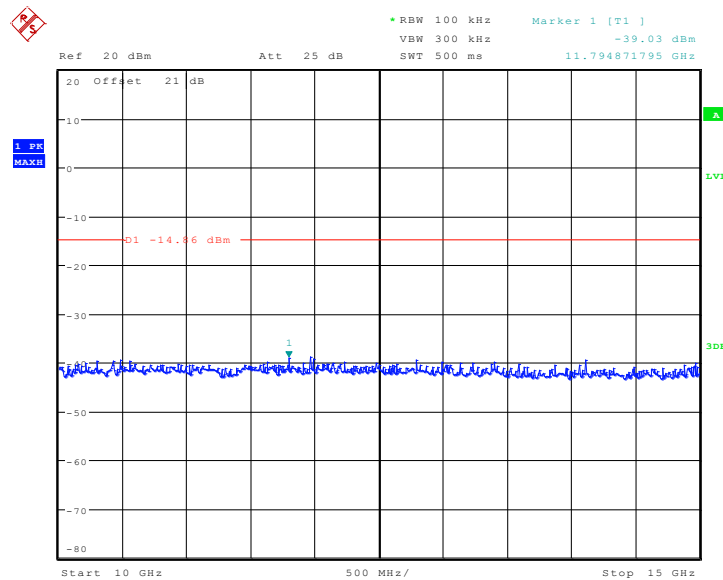


Fig. 56 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)



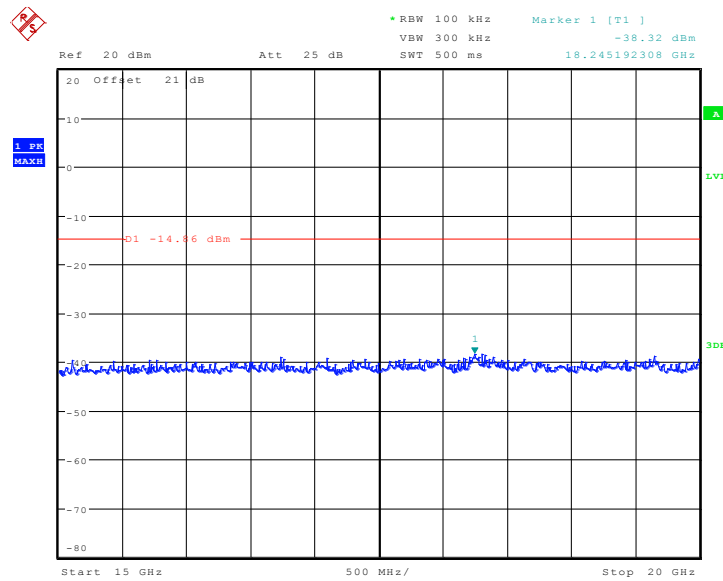
Date: 10.JAN.2013 09:46:26

Fig. 57 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)



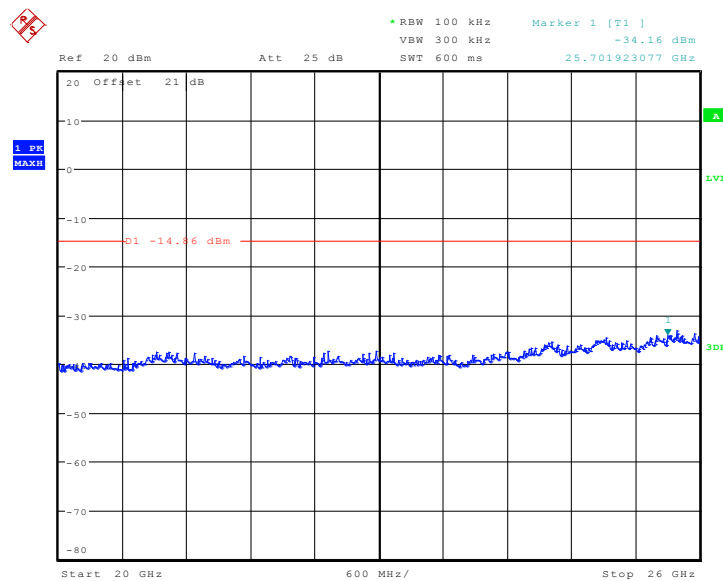
Date: 10.JAN.2013 09:46:46

Fig. 58 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)



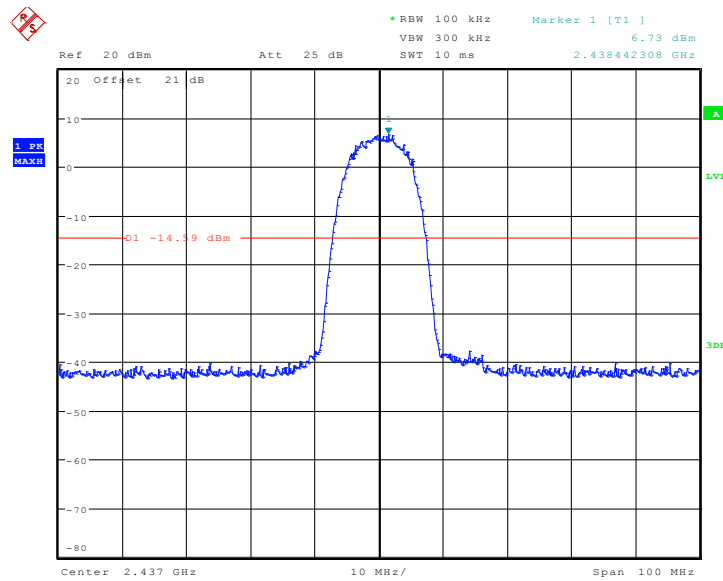
Date: 10.JAN.2013 09:47:13

Fig. 59 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)



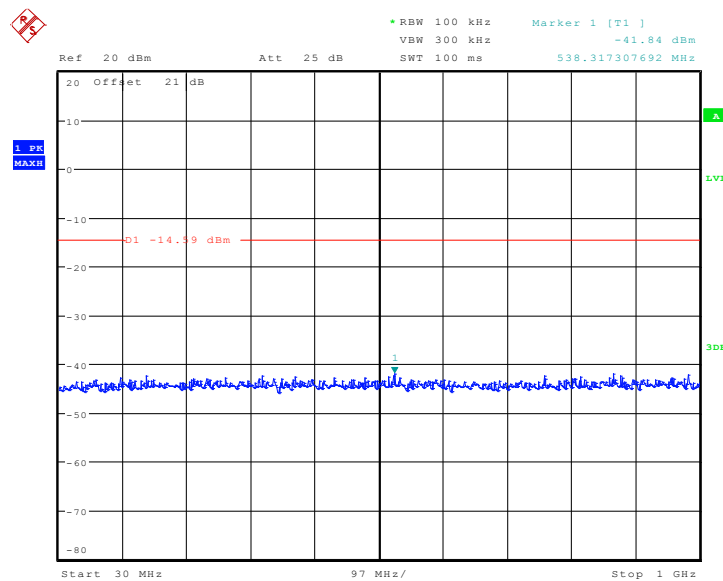
Date: 10.JAN.2013 09:47:51

Fig. 60 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)



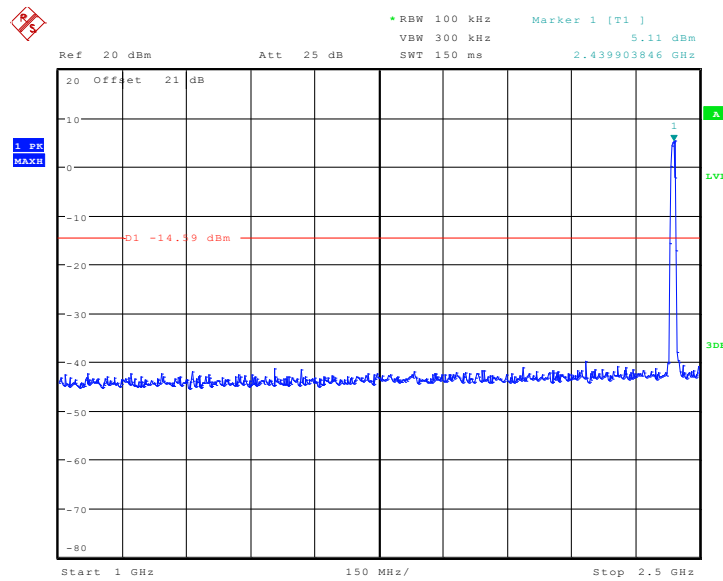
Date: 10.JAN.2013 09:49:32

Fig. 61 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)



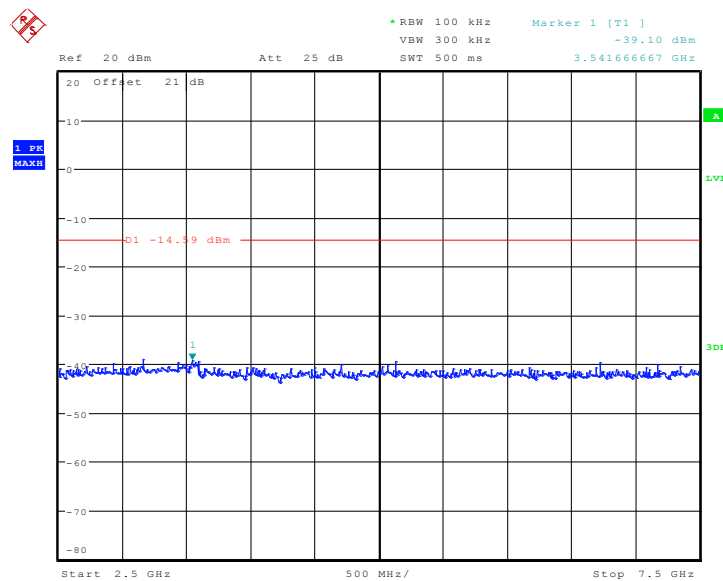
Date: 10.JAN.2013 09:49:48

Fig. 62 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)



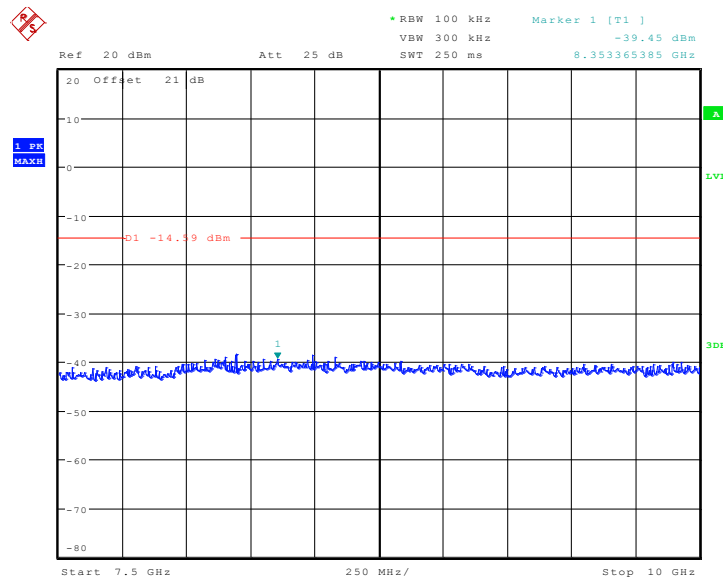
Date: 10.JAN.2013 09:50:05

Fig. 63 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)



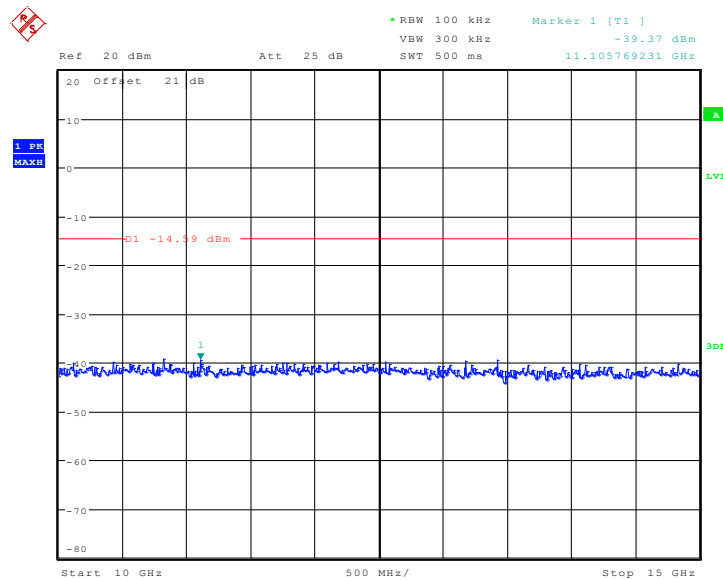
Date: 10.JAN.2013 09:50:54

Fig. 64 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)



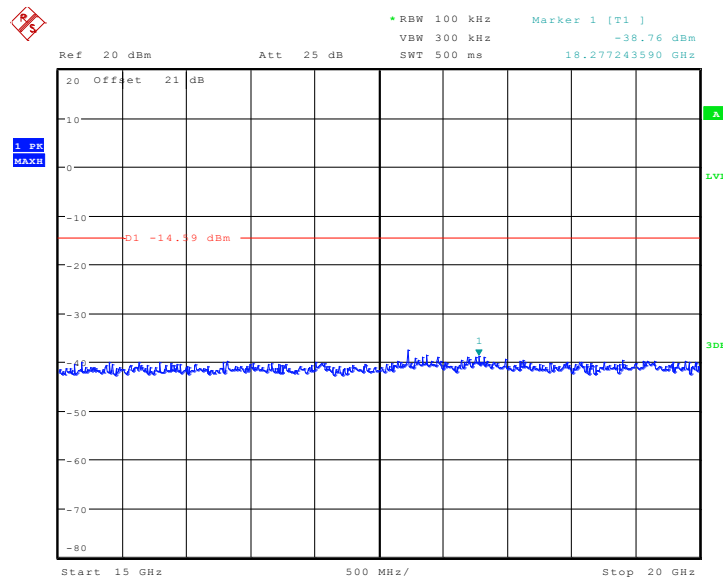
Date: 10.JAN.2013 09:51:15

Fig. 65 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)



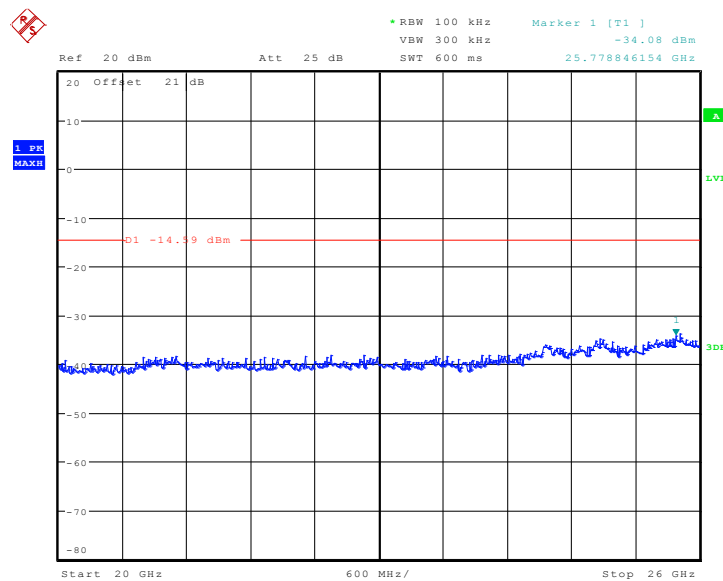
Date: 10.JAN.2013 09:51:44

Fig. 66 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)



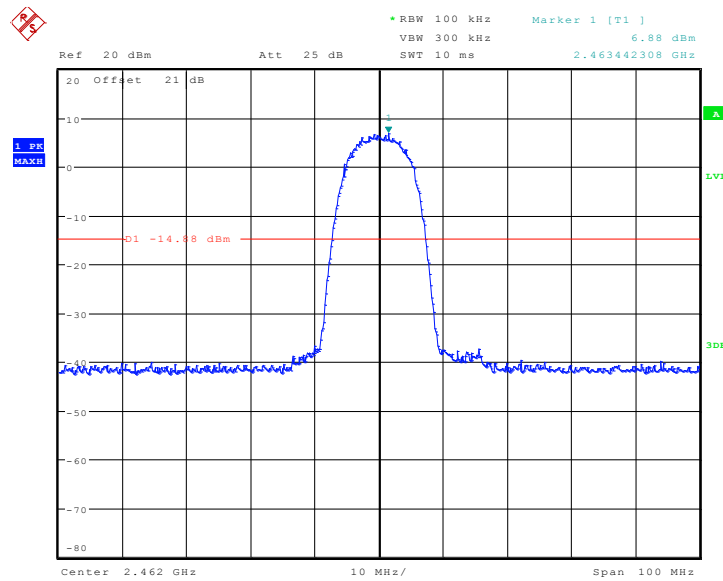
Date: 10.JAN.2013 09:52:01

Fig. 67 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)



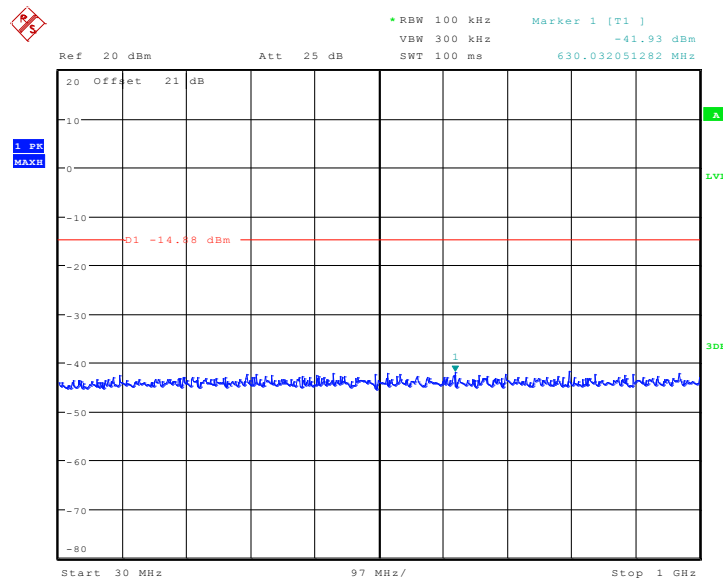
Date: 10.JAN.2013 09:52:21

Fig. 68 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)



Date: 10.JAN.2013 09:56:35

Fig. 69 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)



Date: 10.JAN.2013 09:56:55

Fig. 70 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)