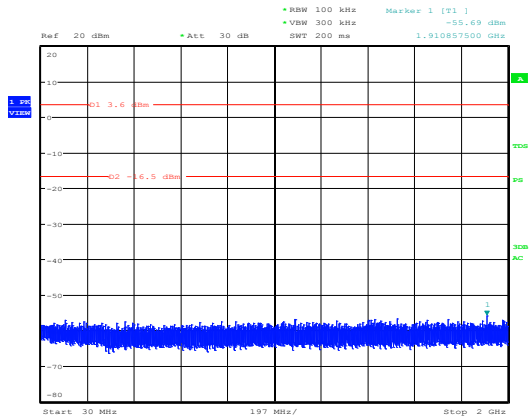
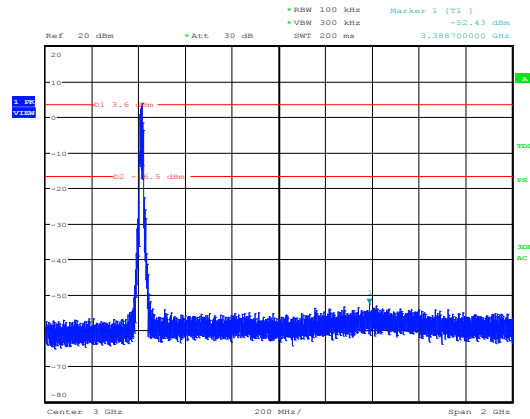


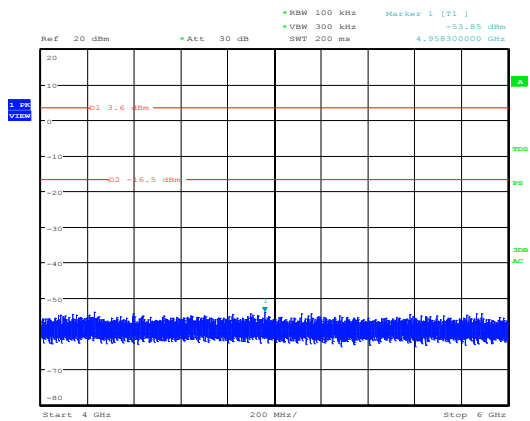
Figure 44: Conducted Spurious Emissions, 30MHz - 12GHz, Mode A (2412MHz), IEEE 802.11n (20HT)



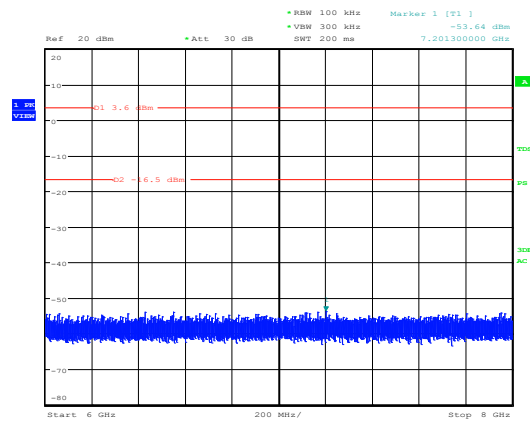
Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:17:01



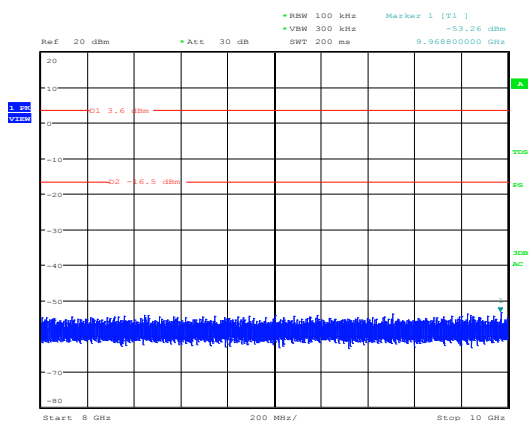
Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:17:45



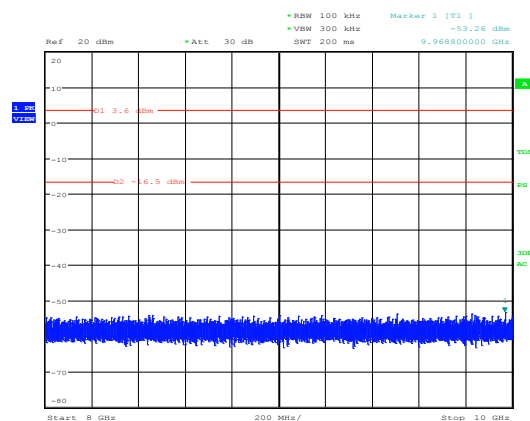
Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:18:04



Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:19:58

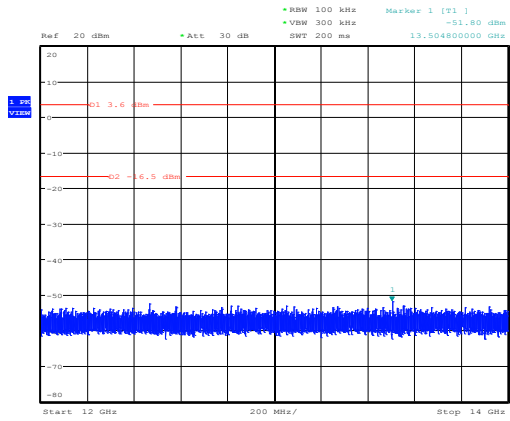


Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:20:16

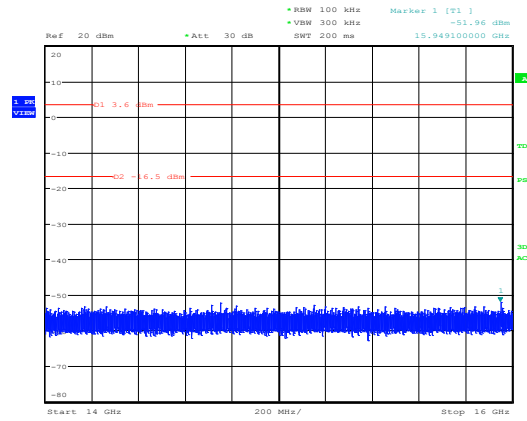


Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:20:16

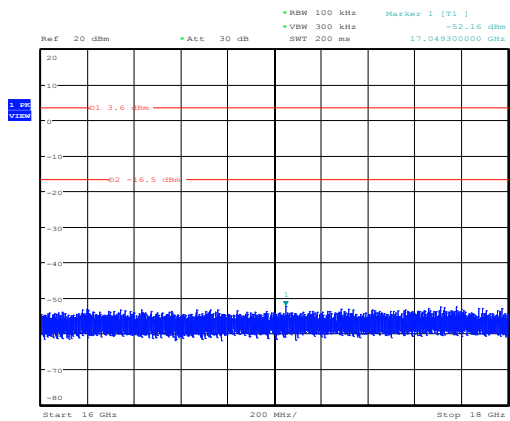
Figure 45: Conducted Spurious Emissions, 12 - 24GHz, Mode A (2412MHz), IEEE 802.11n (20HT)



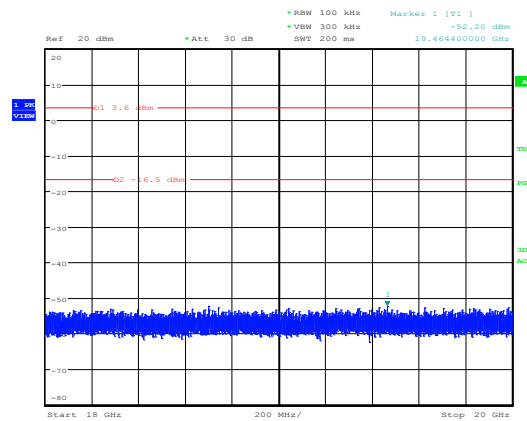
Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:21:07



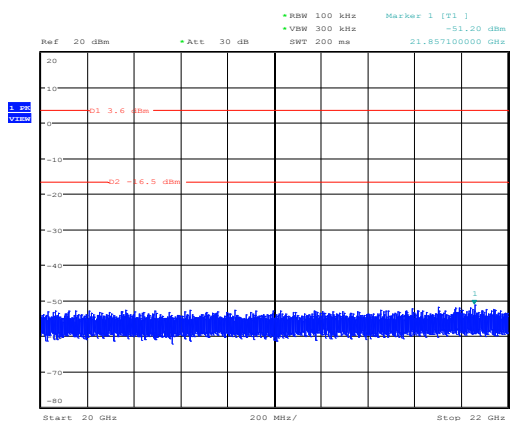
Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:21:32



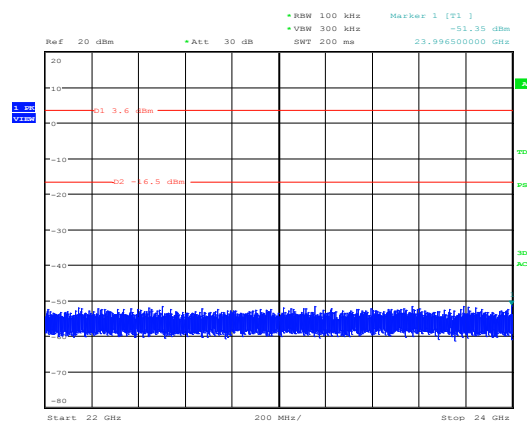
Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:22:07



Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:22:39



Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:22:59



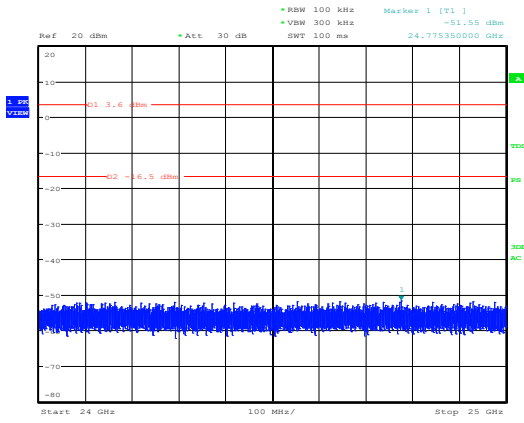
Conducted spurious emissions, mode 11n (20M), A1
 Date: 14.JAN.2016 16:23:20

Produkte
Products

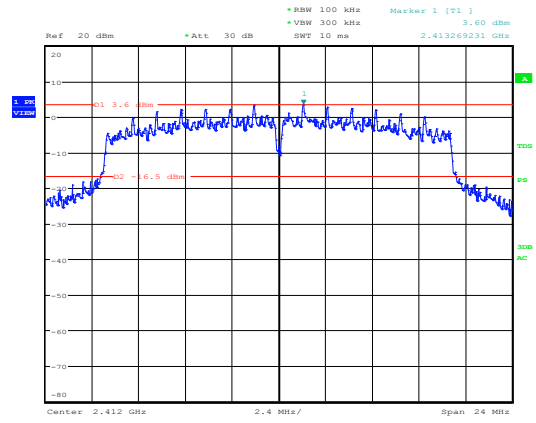
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Figure 46: Conducted Spurious Emissions, 24 - 25GHz, Mode A (2412MHz), IEEE 802.11n (20HT)

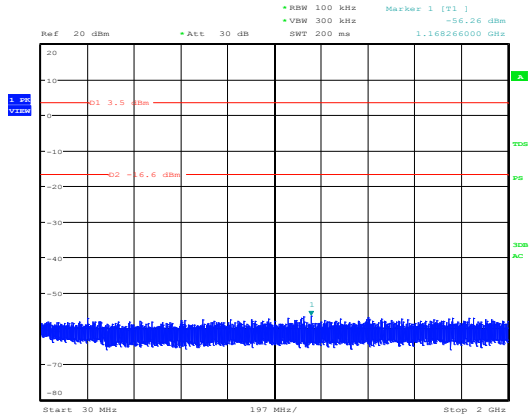


Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:23:39

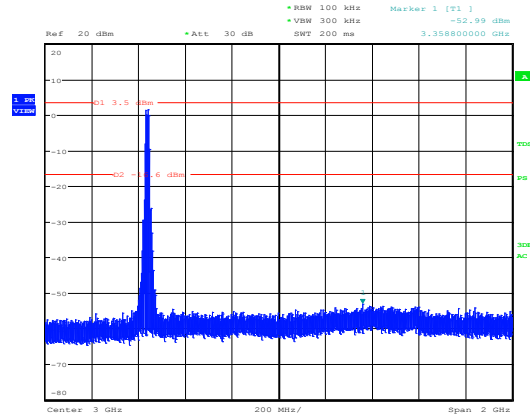


Conducted spurious emissions, mode 11n (20M), A1
Date: 14.JAN.2016 16:16:42

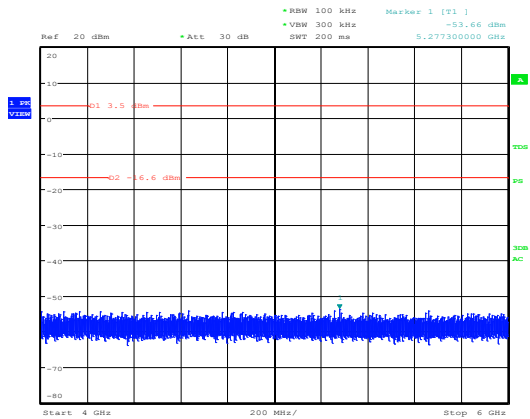
Figure 47: Conducted Spurious Emissions, 30MHz - 12GHz, Mode B (2437MHz), IEEE 802.11n (20HT)



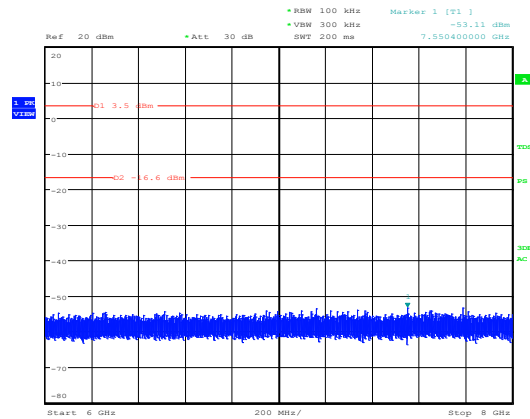
Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:28:58



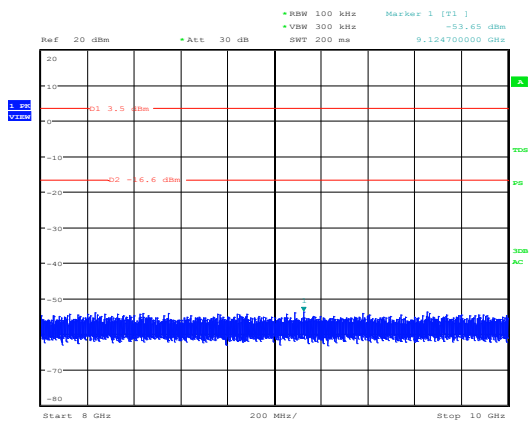
Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:29:45



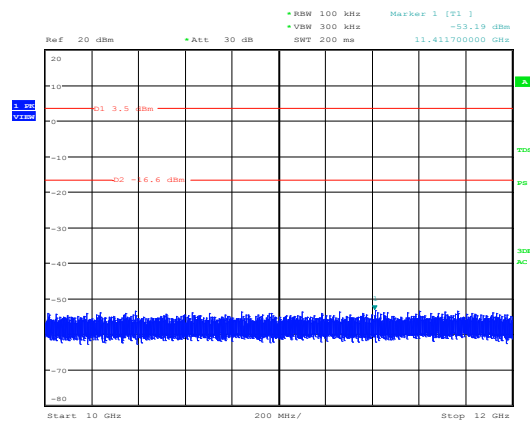
Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:30:14



Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:30:57

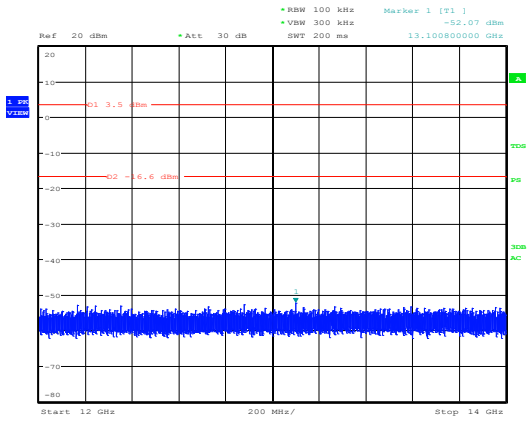


Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:31:31

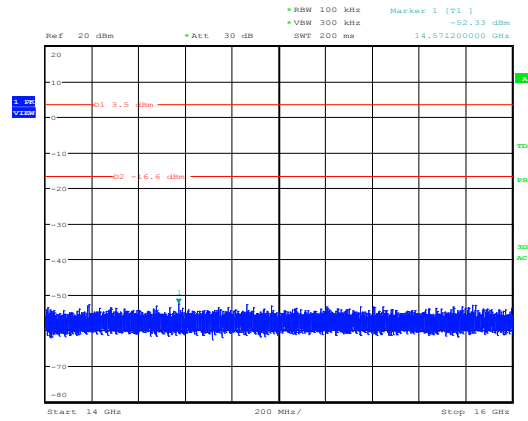


Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:31:53

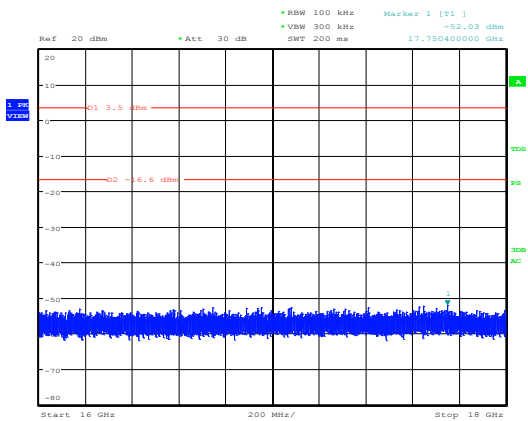
Figure 48: Conducted Spurious Emissions, 12 - 24GHz, Mode B (2437MHz), IEEE 802.11n (20HT)



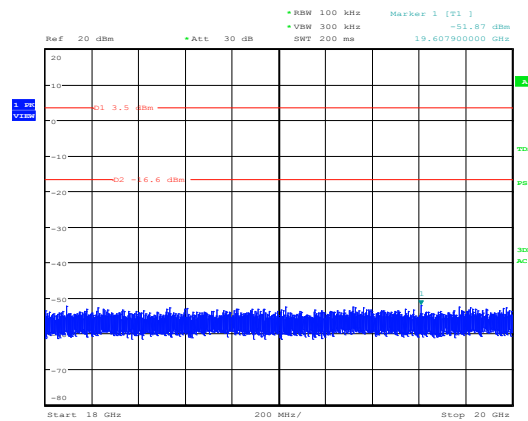
Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:32:15



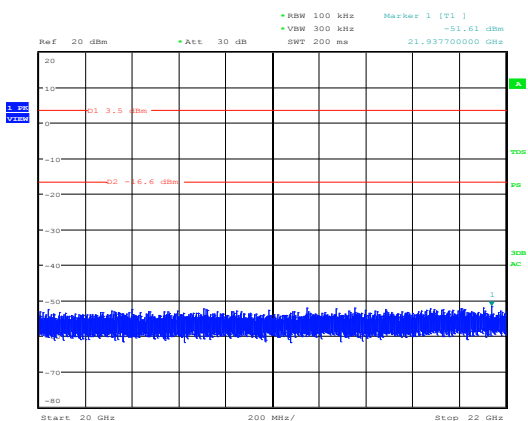
Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:32:57



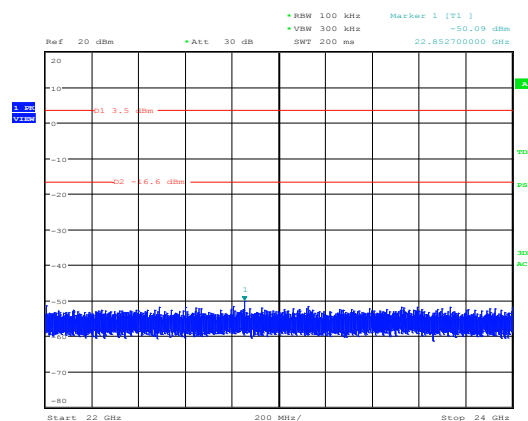
Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:33:20



Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:33:43



Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:34:25



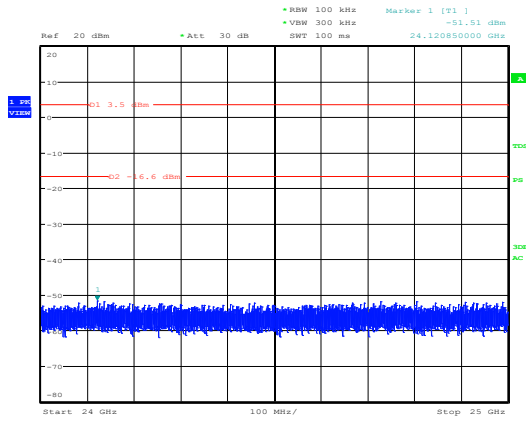
Conducted spurious emissions, mode 11n (20M), B1
 Date: 14.JAN.2016 16:34:47

Produkte
Products

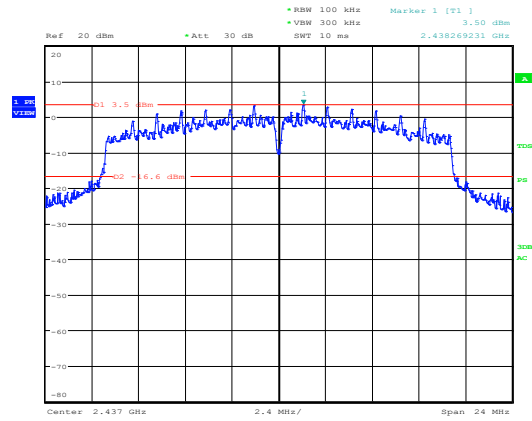
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Figure 49: Conducted Spurious Emissions, 24 - 25GHz, Mode B (2437MHz), IEEE 802.11n (20HT)

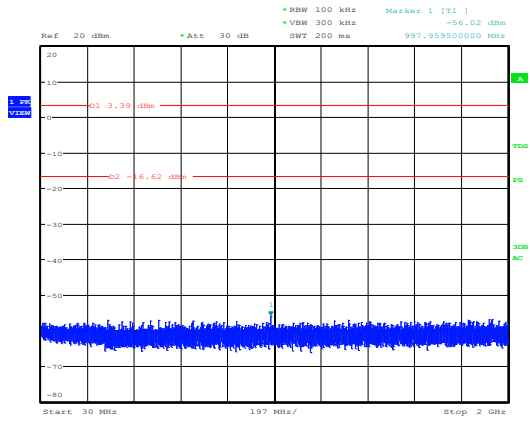


Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:35:41

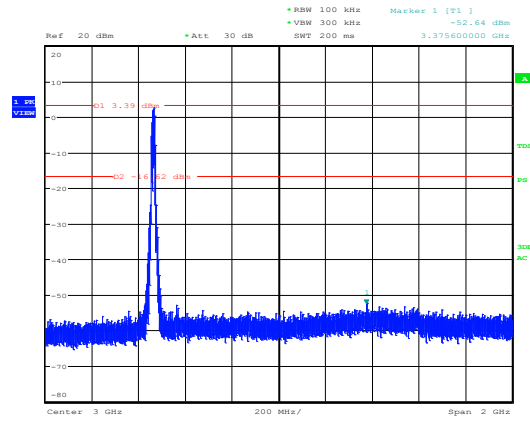


Conducted spurious emissions, mode 11n (20M), B1
Date: 14.JAN.2016 16:28:19

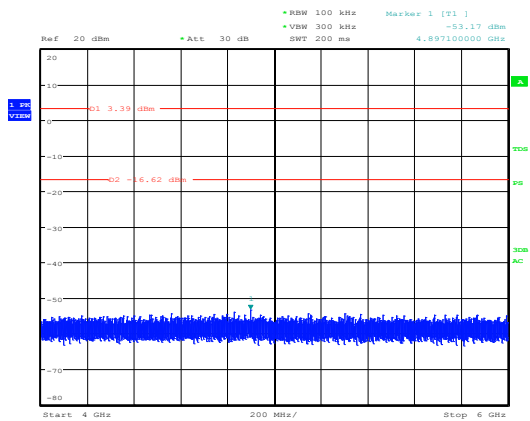
Figure 50: Conducted Spurious Emissions, 30MHz - 12GHz, Mode C (2462MHz), IEEE 802.11n (20HT)



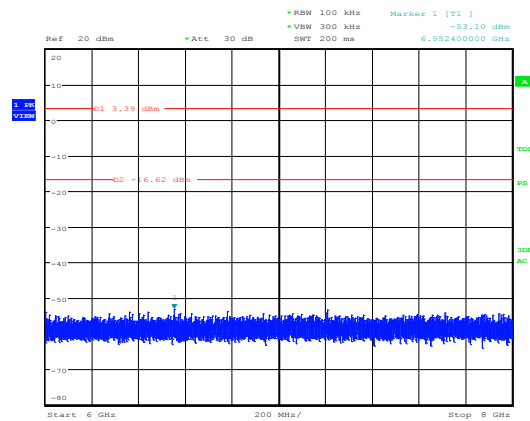
Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:41:31



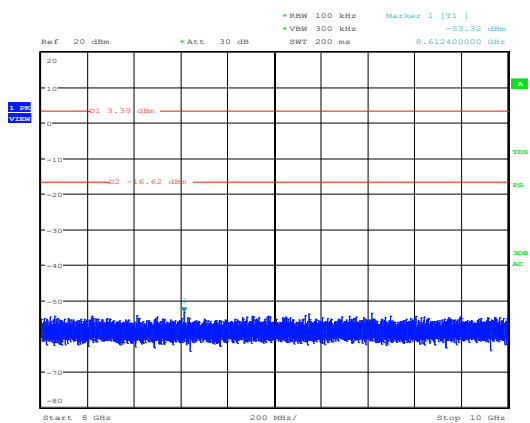
Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:43:07



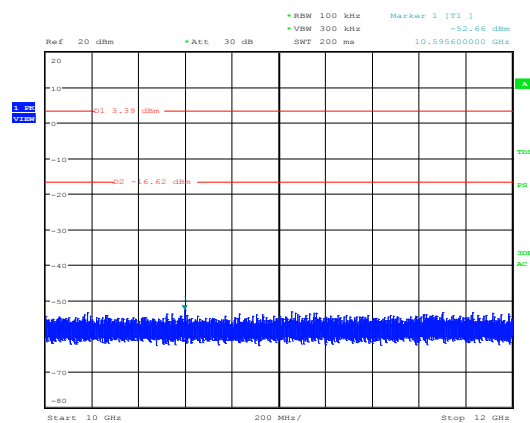
Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:43:25



Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:43:42

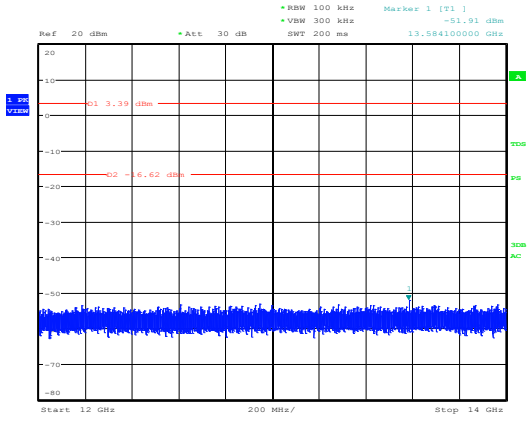


Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:44:14

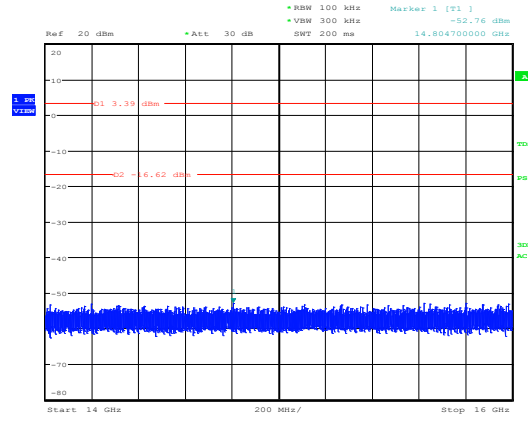


Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:44:59

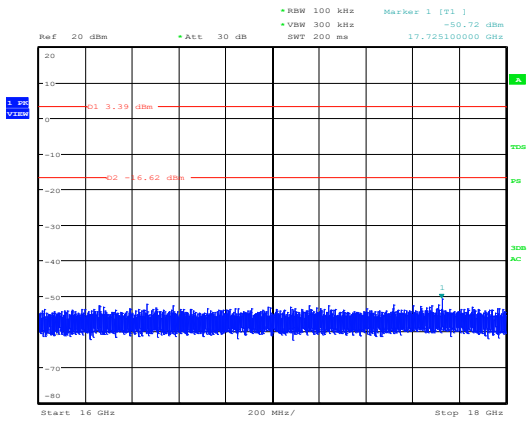
Figure 51: Conducted Spurious Emissions, 12 - 24GHz, Mode C (2462MHz), IEEE 802.11n (20HT)



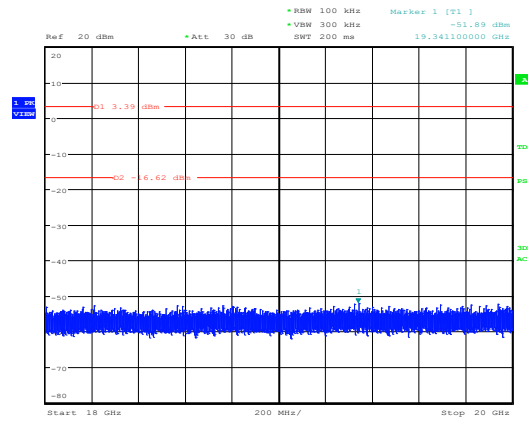
Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:45:25



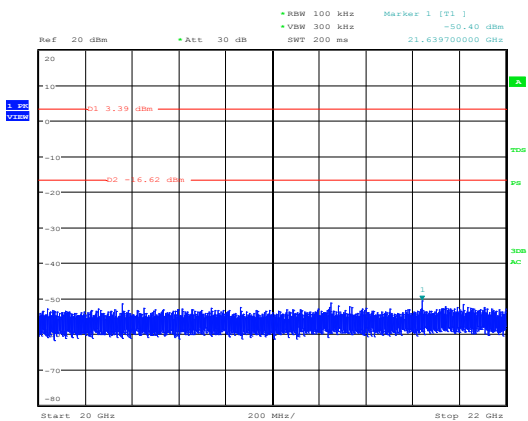
Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:45:52



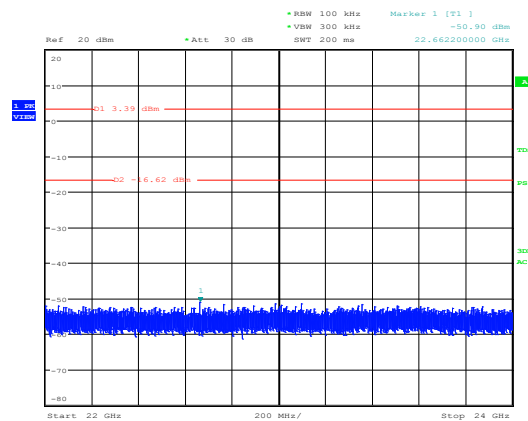
Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:46:14



Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:46:38



Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:47:05



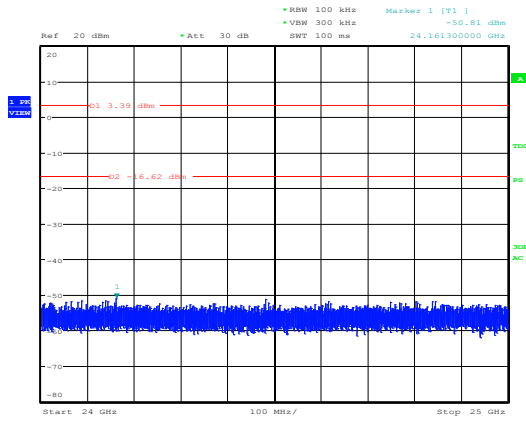
Conducted spurious emissions, mode 11n (20M), C1
 Date: 14.JAN.2016 16:47:27

Produkte
Products

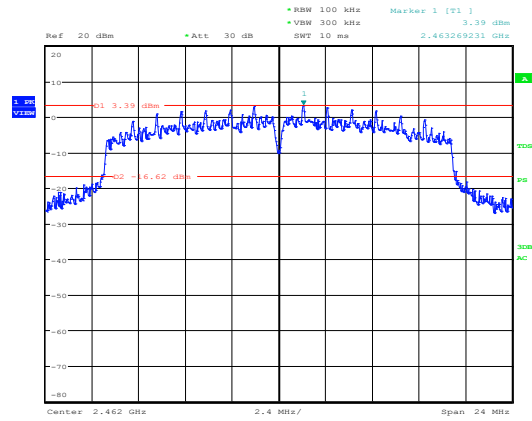
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Figure 52: Conducted Spurious Emissions, 24 - 25GHz, Mode C (2462MHz) IEEE 802.11n (20HT)



Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:47:48



Conducted spurious emissions, mode 11n (20M), C1
Date: 14.JAN.2016 16:40:48

Figure 53: Conducted Spurious Emissions, 30MHz - 12GHz, Mode A (2422MHz), IEEE 802.11n (40HT)

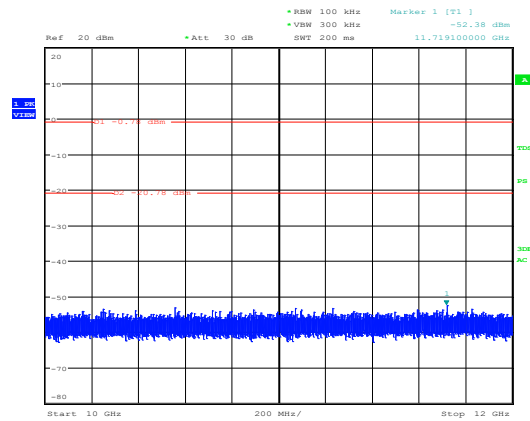
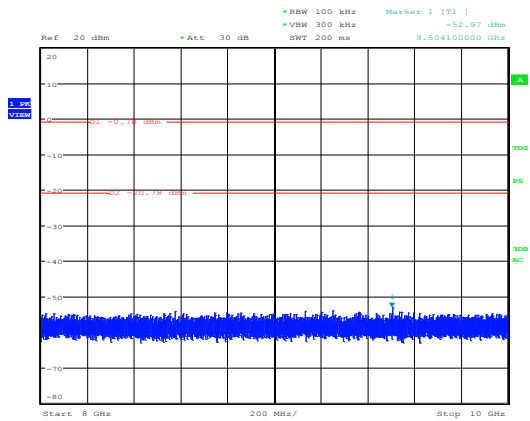
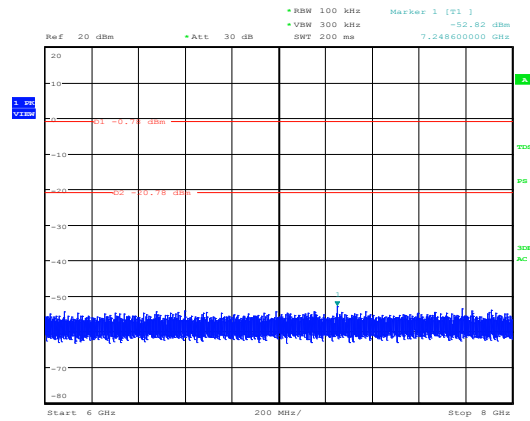
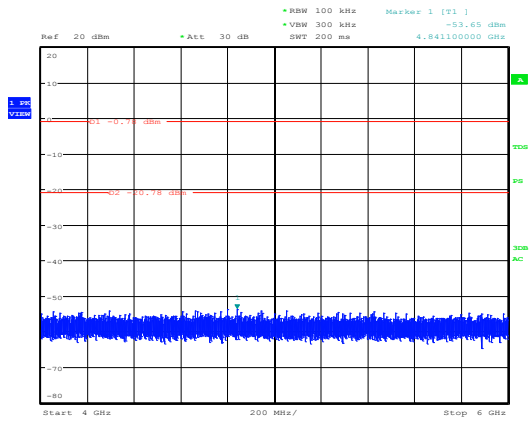
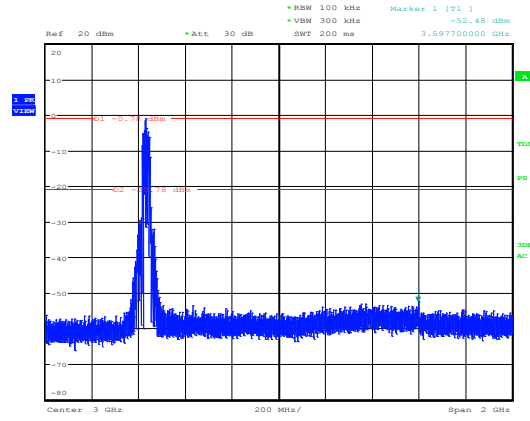
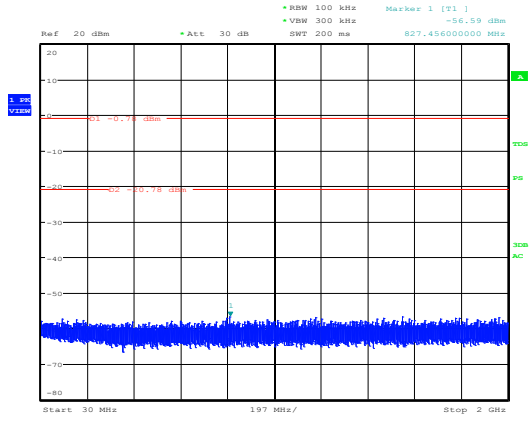
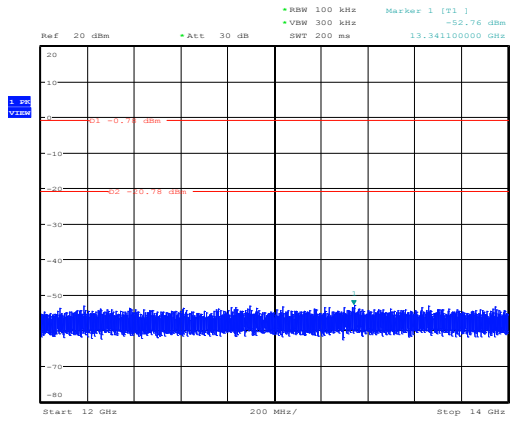
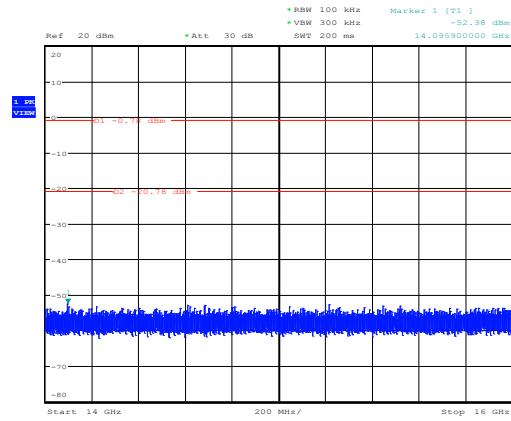


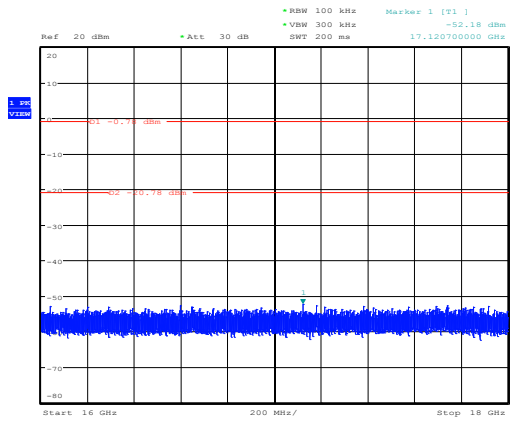
Figure 54: Conducted Spurious Emissions, 12 - 24GHz, Mode A (2422MHz), IEEE 802.11n (40HT)



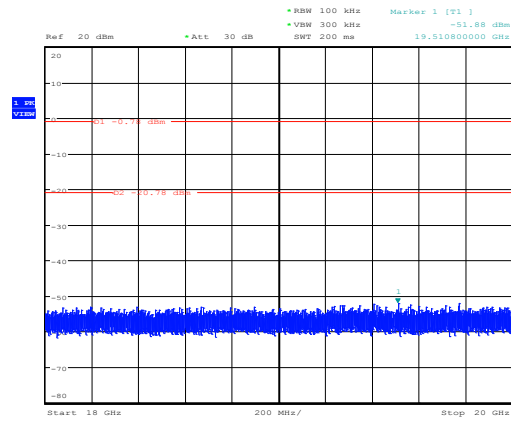
Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:09:27



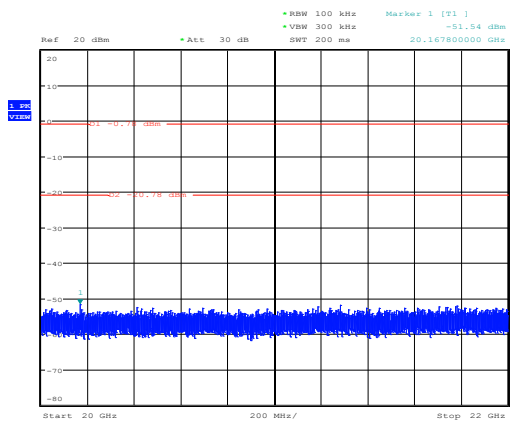
Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:09:48



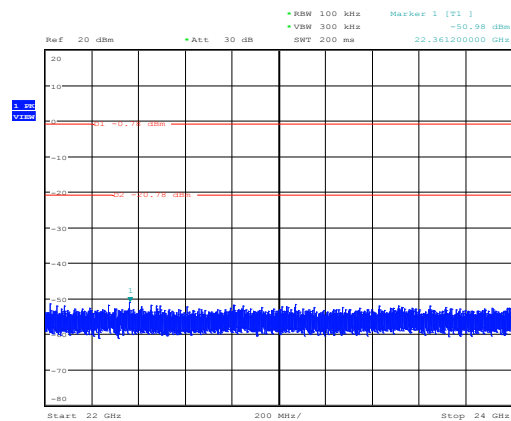
Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:10:06



Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:10:23



Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:10:42



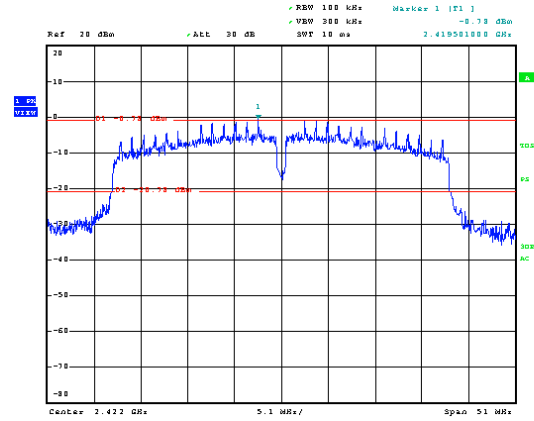
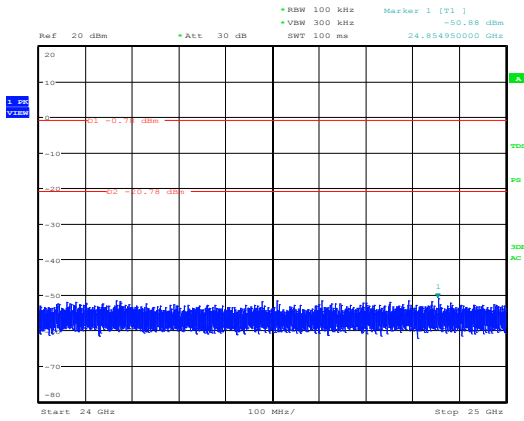
Conducted spurious emissions, mode 11n (40M), A1
 Date: 15.JAN.2016 09:11:00

Produkte
Products

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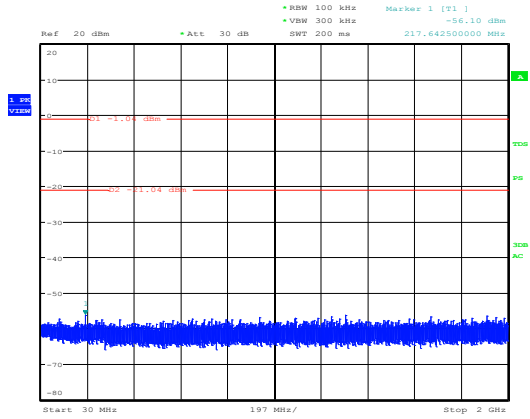
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Figure 55: Conducted Spurious Emissions, 24 - 25GHz, Mode A (2422MHz), IEEE 802.11n (40HT)

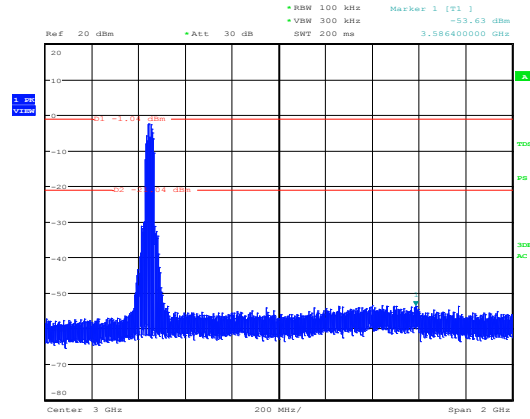


Conducted spurious emissions, mode 11n (40M), A1
Date: 15.JAN.2016 09:11:18

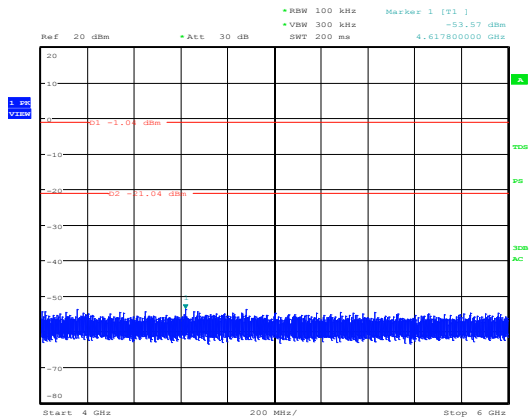
Figure 56: Conducted Spurious Emissions, 30MHz - 12GHz, Mode B (2437MHz), IEEE 802.11n (40HT)



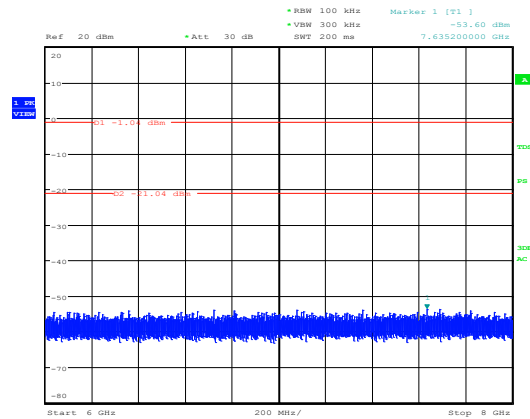
Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:15:08



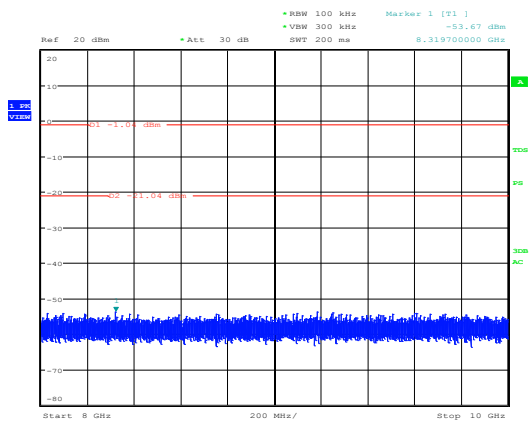
Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:16:25



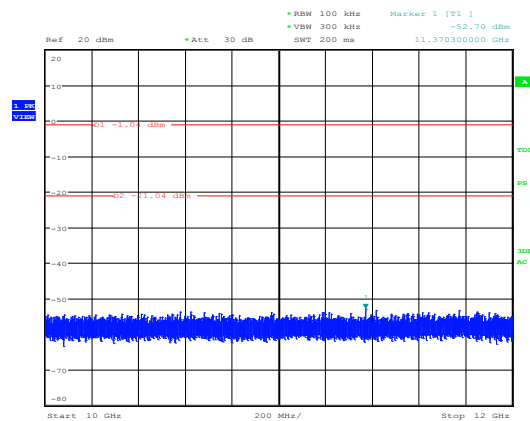
Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:16:42



Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:17:04

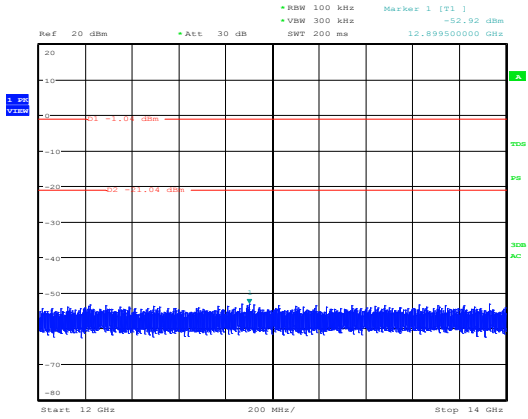


Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:17:23

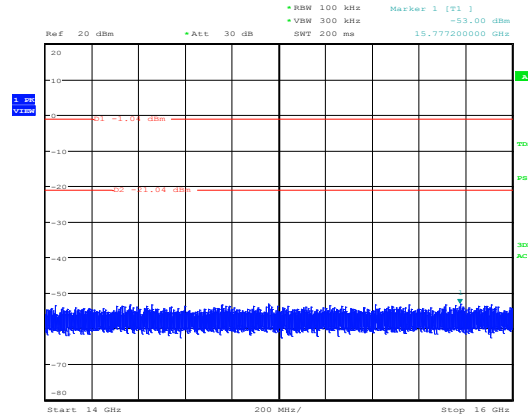


Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:17:43

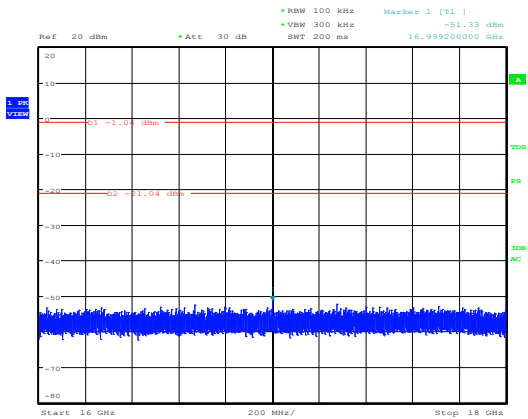
Figure 57: Conducted Spurious Emissions, 12 - 24GHz, Mode B (2437MHz), IEEE 802.11n (40HT)



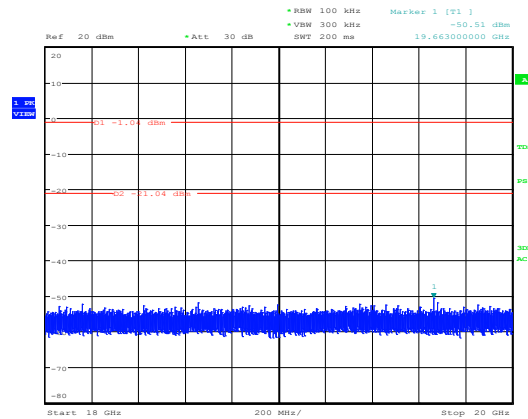
Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:18:00



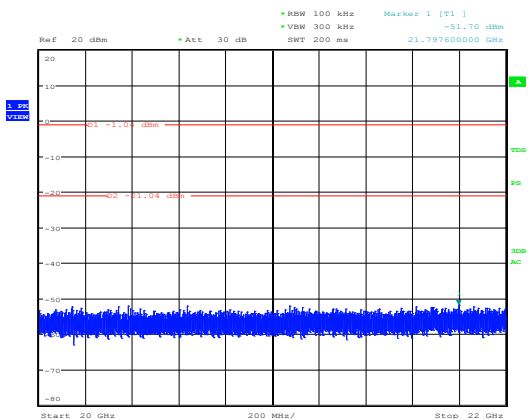
Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:18:20



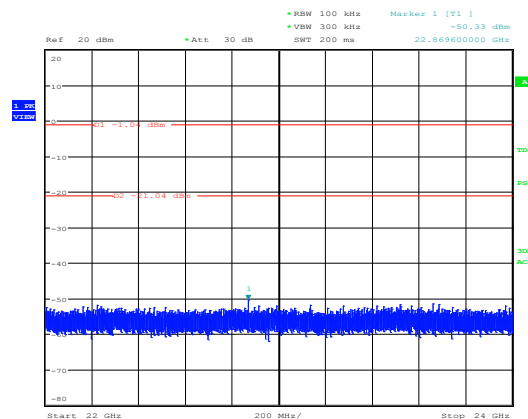
Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:18:39



Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:18:56



Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:19:16



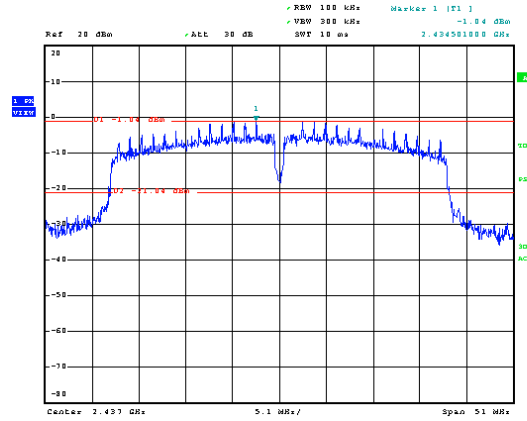
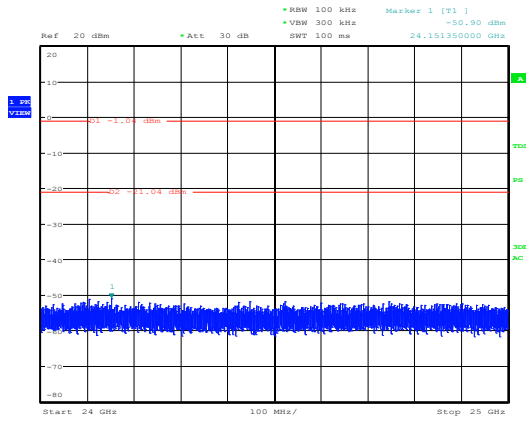
Conducted spurious emissions, mode 11n (40M), B1
 Date: 15.JAN.2016 09:19:43

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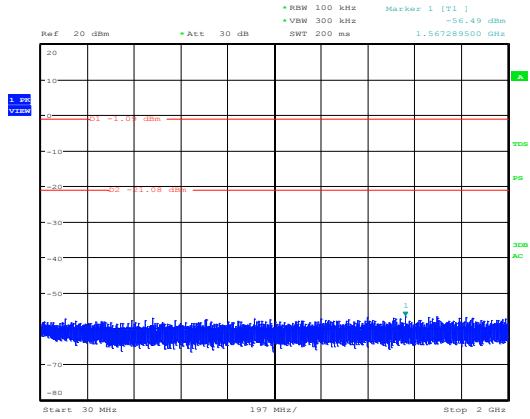
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Figure 58: Conducted Spurious Emissions, 24 - 25GHz, Mode B (2437MHz), IEEE 802.11n (40HT)

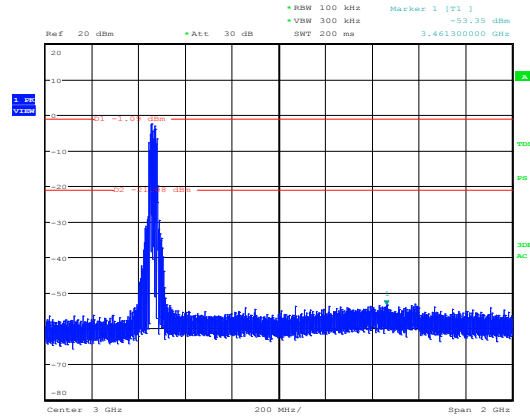


Conducted spurious emissions, mode 11n (40M), B1
Date: 15.JAN.2016 09:20:04

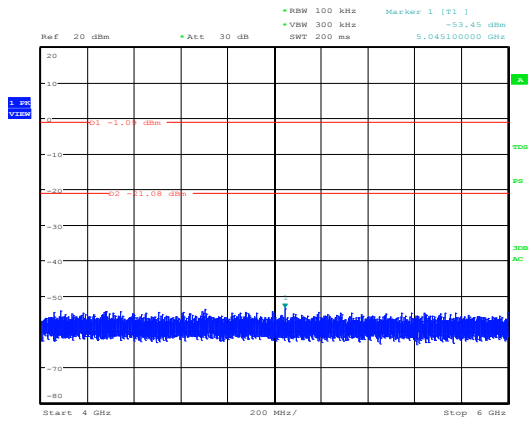
Figure 59: Conducted Spurious Emissions, 30MHz - 12GHz, Mode C (2452MHz), IEEE 802.11n (40HT)



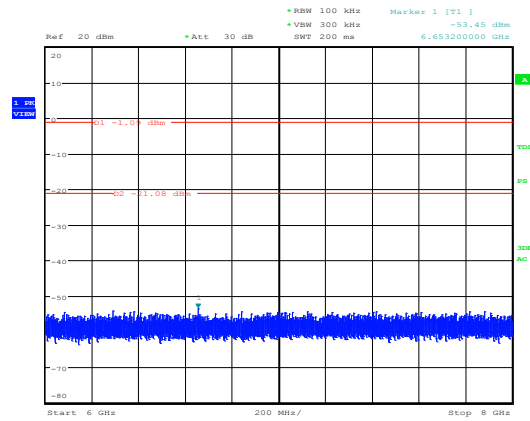
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:27:23



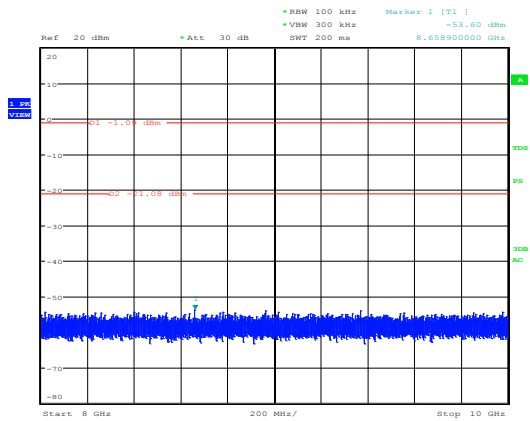
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:28:02



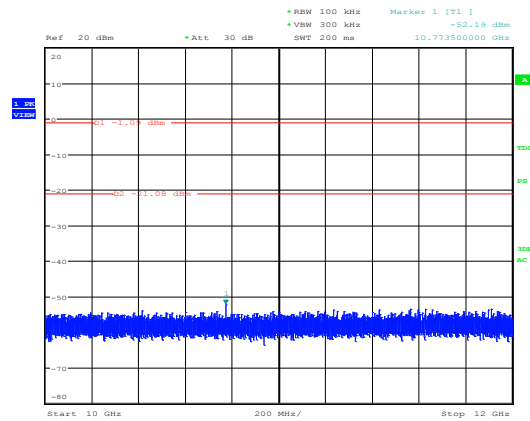
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:28:23



Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:28:44

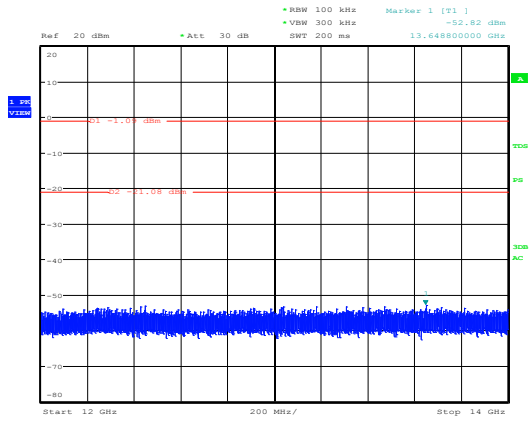


Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:29:05

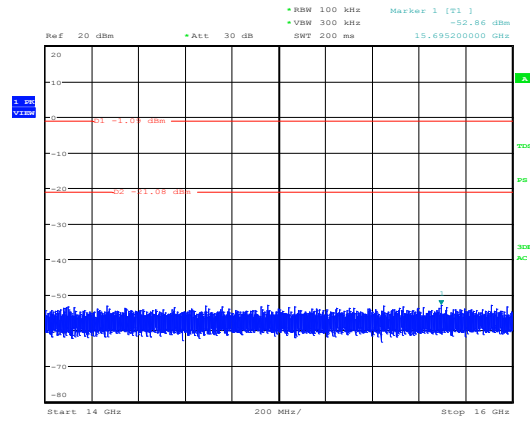


Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:29:26

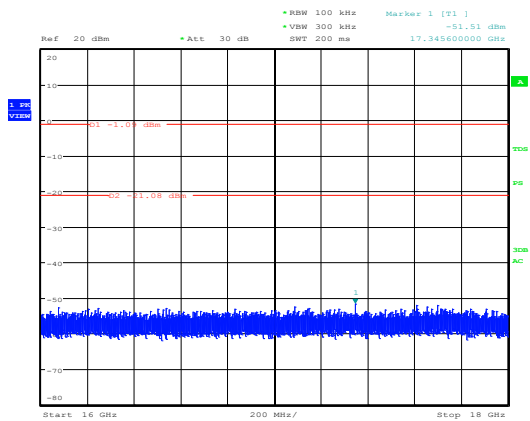
Figure 60: Conducted Spurious Emissions, 12 - 24GHz, Mode C (2452MHz), IEEE 802.11n (40HT)



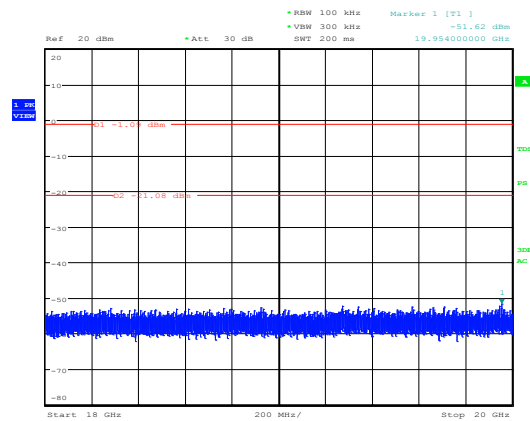
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:29:44



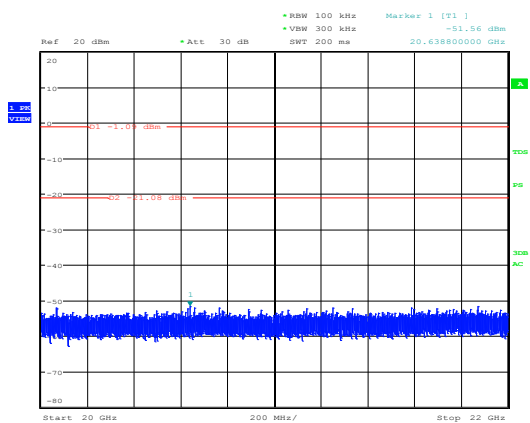
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:30:02



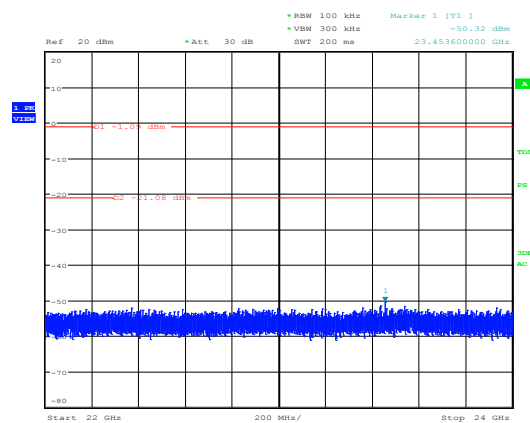
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:30:19



Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:30:36



Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:30:53



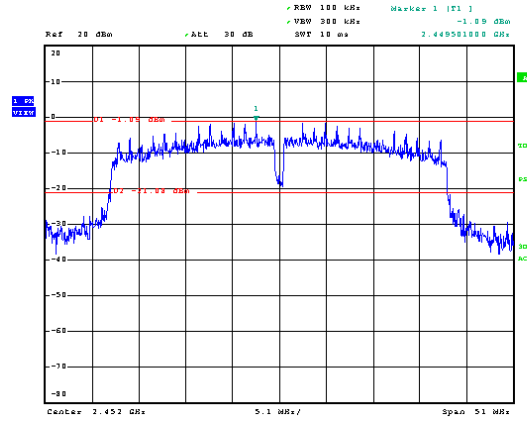
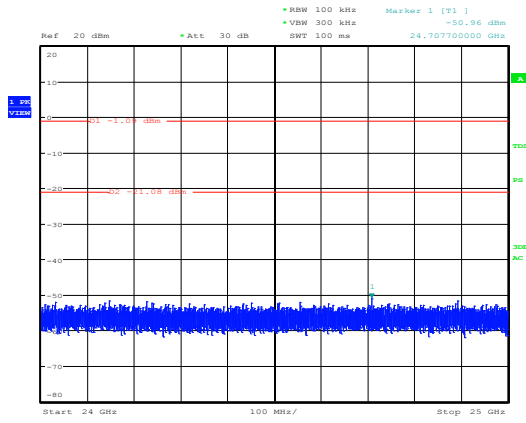
Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:31:10

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Figure 61: Conducted Spurious Emissions, 24 - 25GHz, Mode C (2452MHz) IEEE 802.11n (40HT)



Conducted spurious emissions, mode 11n (40M), C1
Date: 15.JAN.2016 09:31:29

5.2.5 Peak Power Spectral Density

RESULT:

PASS

Date of testing: 2016-01-14, 2016-01-15, 2016-01-16

Ambient temperature: 24, 24, 23°C

Relative humidity: 24, 24, 25%

Atmospheric pressure: 1006, 1012, 1010hPa

Requirements:

FCC 15.247(e) and RSS-247 §5.2(2)

For digitally modulated systems, the power spectral density (PSD) conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Test procedure:

ANSI C63.10-2013 and KDB Publication No. 558074 D01.

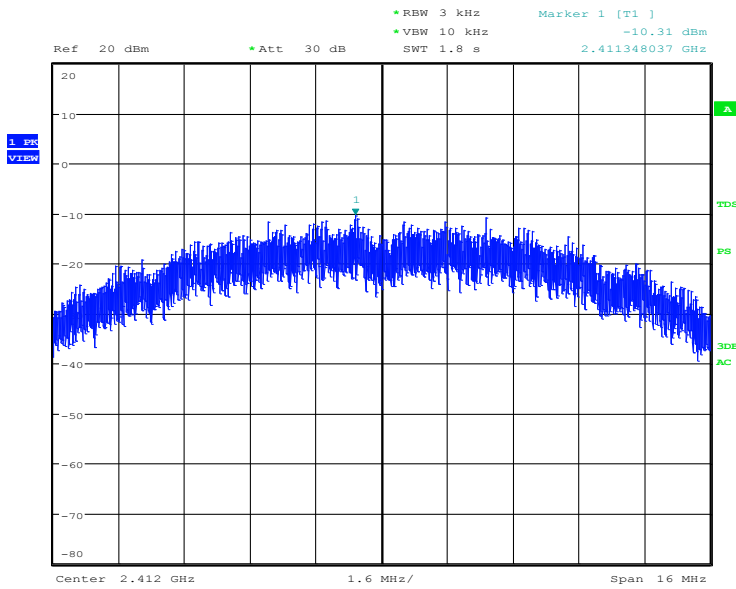
The peak power spectral density was measured at the antenna port with a spectrum analyzer using a peak detector with a resolution bandwidth of 3kHz and a video bandwidth of 10kHz.

The readings of the measurements take into account the loss generated by all the involved cables.

Table 16: Peak Power Spectral Density, IEEE 802.11b

Operating Frequency [MHz]	Max PSD Frequency [MHz]	Max PSD [dBm]	Limit [dBm]	Margin [dB]
2412	2411.348	-10.31	8	18.31
2437	2437.531	-9.64	8	17.64
2462	2460.640	-11.18	8	19.18

Figure 62: Power Spectral Density, Mode A (2412MHz), IEEE 802.11b



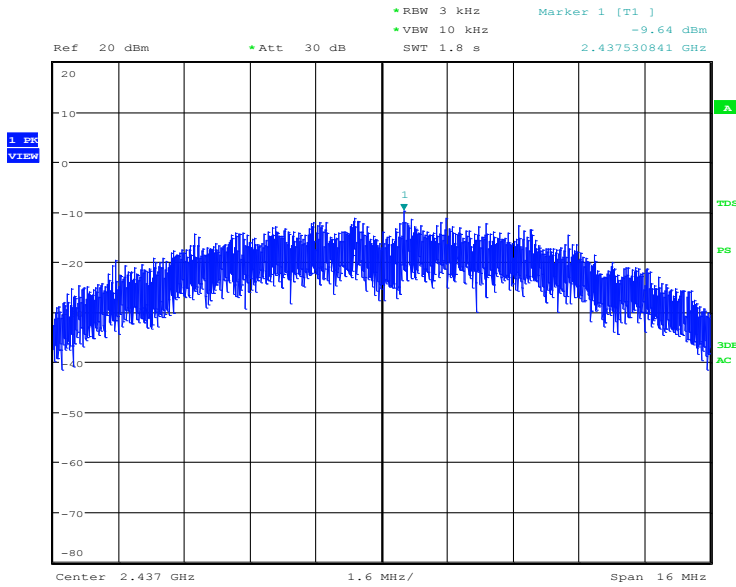
Peak power spectral density, mode 11b, A1
 Date: 14.JAN.2016 14:43:31

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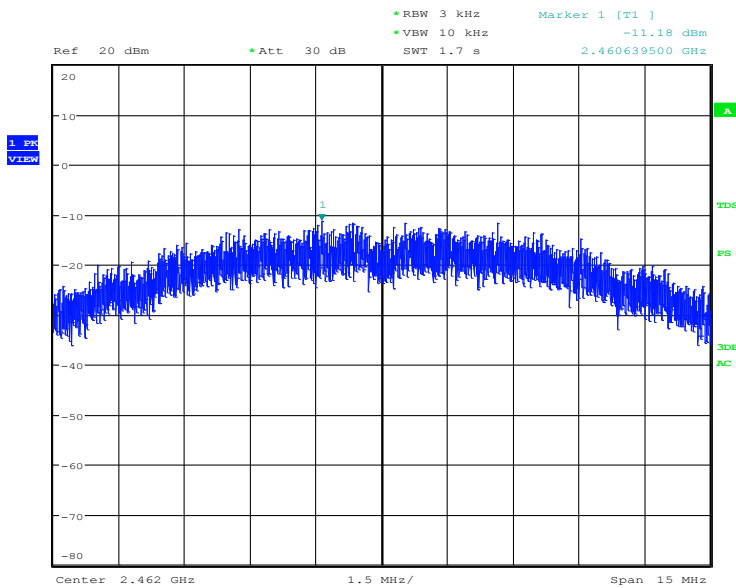
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Figure 63: Power Spectral Density, Mode B (2437MHz), IEEE 802.11b



Peak power spectral density, mode 11b, B1
Date: 14.JAN.2016 14:52:17

Figure 64: Power Spectral Density, Mode C (2462MHz), IEEE 802.11b

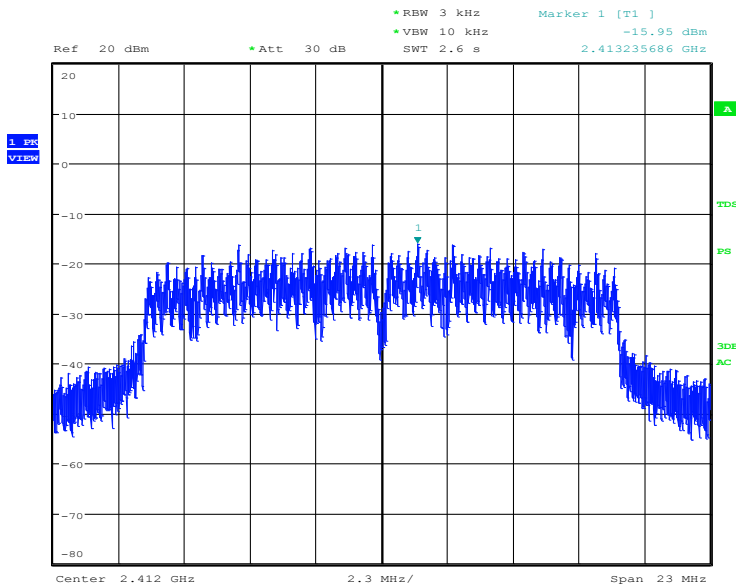


Peak power spectral density, mode 11b, C1
Date: 14.JAN.2016 15:10:17

Table 17: Peak Power Spectral Density, IEEE 802.11g

Operating Frequency [MHz]	Max PSD Frequency [MHz]	Max PSD [dBm]	Limit [dBm]	Margin [dB]
2412	2413.236	-15.95	8	23.95
2437	2439.480	-15.38	8	23.38
2462	2464.473	-15.35	8	23.35

Figure 65: Power Spectral Density, Mode A (2412MHz), IEEE 802.11g



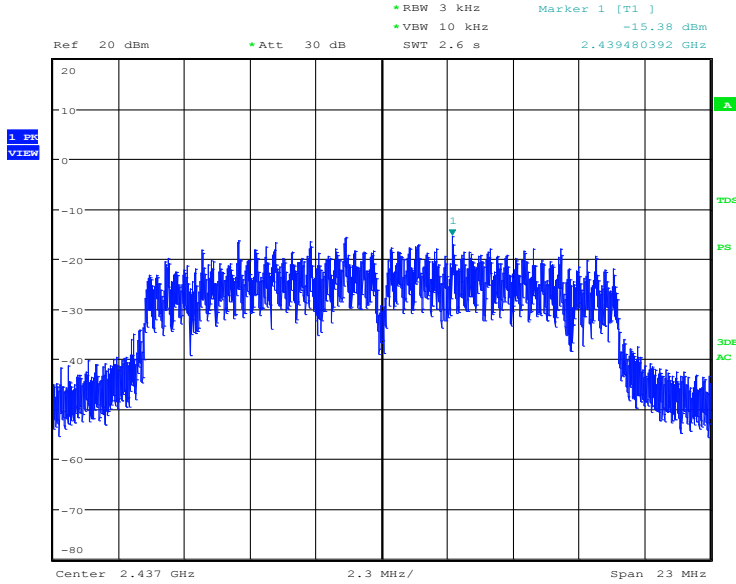
Peak power spectral density, mode 11g, A1
 Date: 14.JAN.2016 15:21:40

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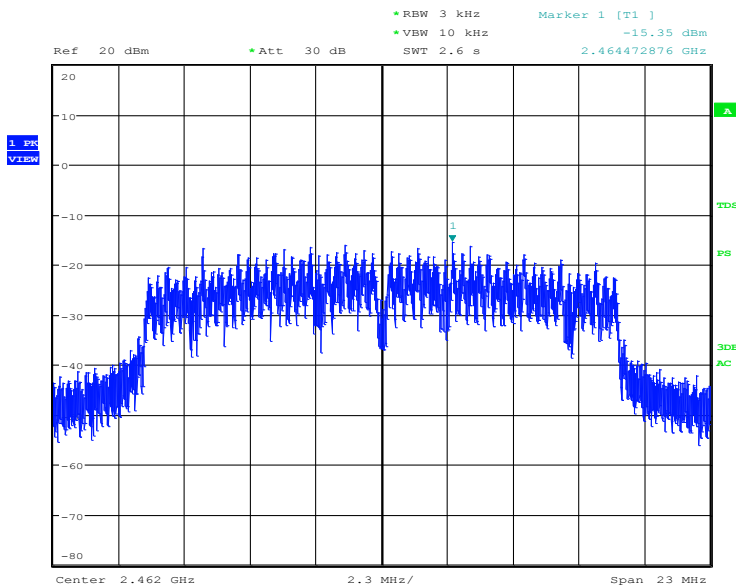
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Figure 66: Power Spectral Density, Mode B (2437MHz), IEEE 802.11g



Peak power spectral density, mode 11g, B1
Date: 14.JAN.2016 15:55:54

Figure 67: Power Spectral Density, Mode C (2462MHz), IEEE 802.11g



Peak power spectral density, mode 11g, C1
Date: 14.JAN.2016 16:04:48

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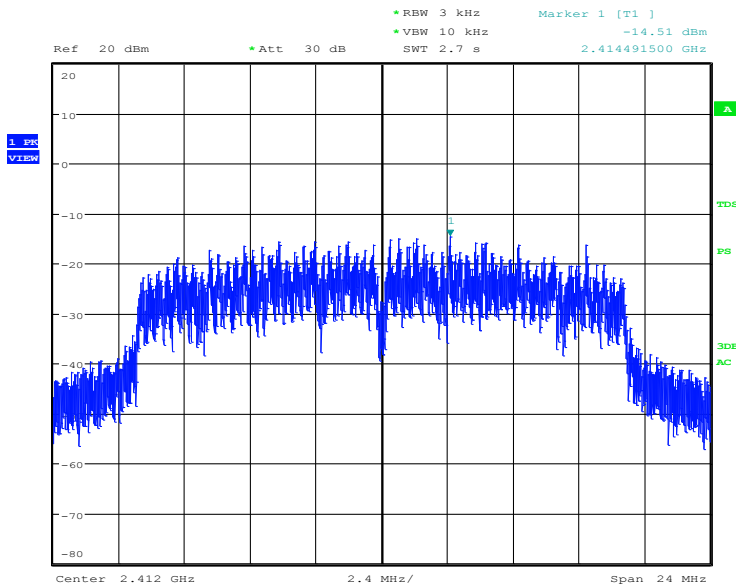
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Table 18: Peak Power Spectral Density, IEEE 802.11n (20HT)

Operating Frequency [MHz]	Max PSD Frequency [MHz]	Max PSD [dBm]	Limit [dBm]	Margin [dB]
2412	2414.492	-14.51	8	22.51
2437	2435.700	-14.31	8	22.31
2462	2465.774	-14.58	8	22.58

Figure 68: Power Spectral Density, Mode A (2412MHz), IEEE 802.11n (20HT)



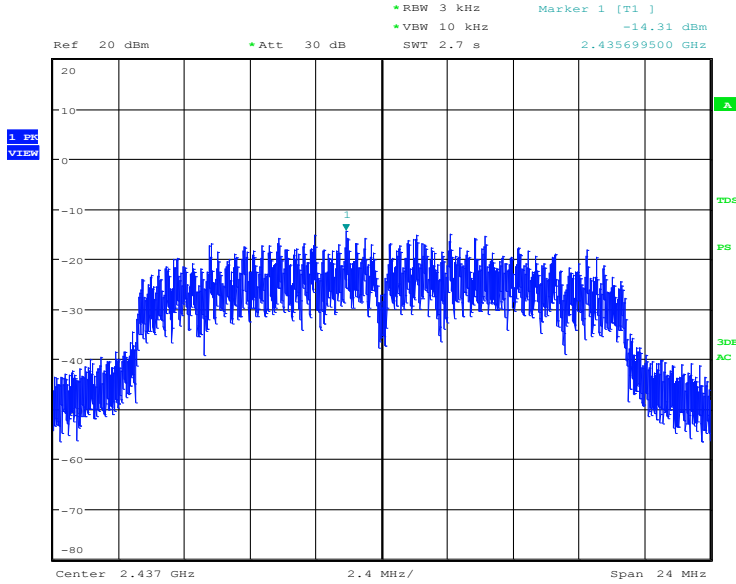
Peak power spectral density, mode 11n (20M), A1
 Date: 14.JAN.2016 16:16:09

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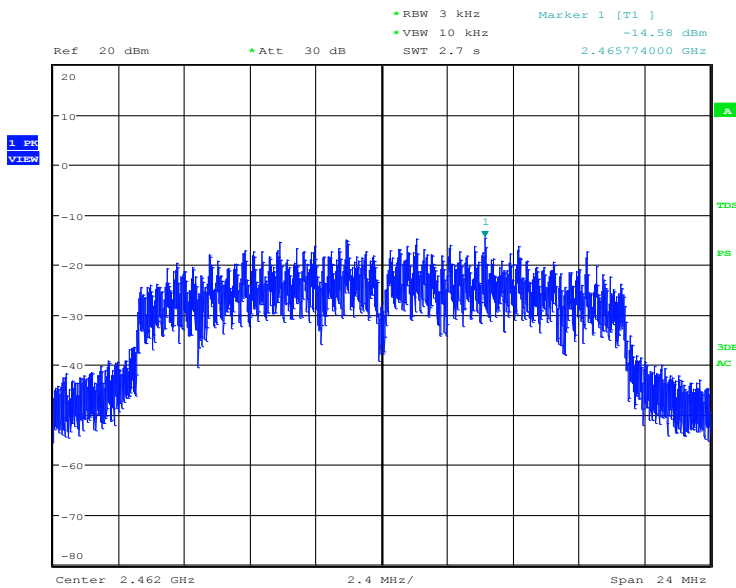
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Figure 69: Power Spectral Density, Mode B (2437MHz), IEEE 802.11n (20HT)



Peak power spectral density, mode 11n (20M), B1
Date: 14.JAN.2016 16:27:19

Figure 70: Power Spectral Density, Mode C (2462MHz), IEEE 802.11n (20HT)



Peak power spectral density, mode 11n (20M), C1
Date: 14.JAN.2016 16:39:58

Produkte
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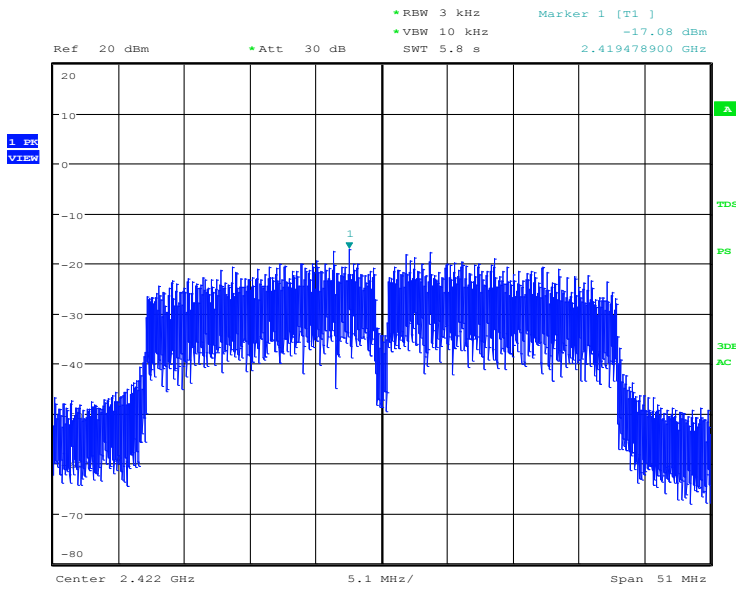
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Table 19: Peak Power Spectral Density, IEEE 802.11n (40HT)

Operating Frequency [MHz]	Max PSD Frequency [MHz]	Max PSD [dBm]	Limit [dBm]	Margin [dB]
2422	2419.479	-17.08	8	25.08
2437	2434.493	-17.32	8	25.32
2452	2455.738	-18.21	8	26.21

Figure 71: Power Spectral Density, Mode A (2422MHz), IEEE 802.11n (40HT)



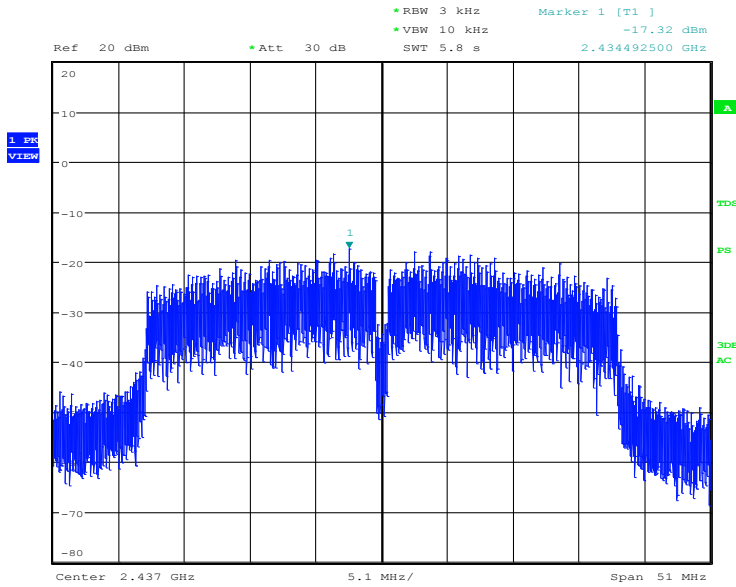
Peak power spectral density, mode 11n (40M), A1
 Date: 16.JAN.2016 14:05:20

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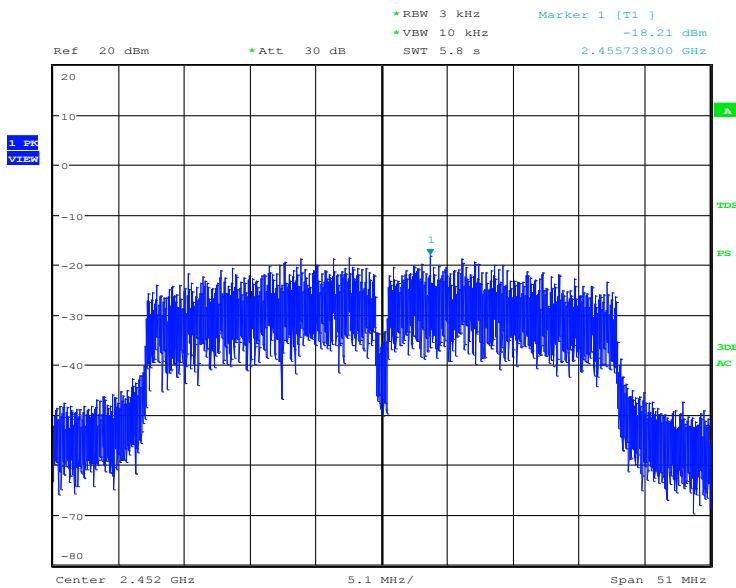
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Figure 72: Power Spectral Density, Mode B (2437MHz), IEEE 802.11n (40HT)



Peak power spectral density, mode 11n (40M), B1
Date: 16.JAN.2016 14:12:26

Figure 73: Power Spectral Density, Mode C (2452MHz), IEEE 802.11n (40HT)



Peak power spectral density, mode 11n (40M), C1
Date: 16.JAN.2016 14:18:53

5.3 Radiated Measurements

5.3.1 Radiated Spurious Emissions of Transmitter

RESULT: **PASS**

Date of testing:	2016-01-25, 2016-01-26, 2016-01-27 2016-01-28, 2016-01-29, 2016-03-04
Ambient temperature:	26, 23, 24, 25, 25, 24°C
Relative humidity:	32, 34, 40, 39, 39, 40%
Atmospheric pressure:	1013, 1020, 1020, 1023, 1022, 1026hPa
Frequency range:	9kHz - 25GHz
Measurement distance:	3m
Kind of test site:	Semi Anechoic Chamber

Requirements:

FCC 15.205, FCC 15.209, FCC 15.247(d), RSS-Gen 8.9, 8.10 and RSS-247 3.1

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-Gen 8.10 (table 6), must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen 8.9 (tables 4 and 5).

Radiated emissions which fall outside the operation frequency band and outside restricted bands shall either meet the limit specified in FCC 15.209(a) and RSS-Gen 8.9 or be attenuated at least 20dB below the power level in the 100kHz bandwidth within the band that contains the highest level of the desired power (the less severe limit applies).

Test procedure:

ANSI C63.10-2013, RSS-Gen 6.13 and 8.1 and KDB Publication No. 558074 D01.

The EUT was placed on a nonconductive turntable above the ground plane. Table height was 0.8m for below 1GHz and was 1.5m for above 1GHz. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system, the associated cabling was varied in order to ensure that maximum emission amplitudes were attained.

The spectrum was examined from 9kHz to the 10th harmonic of the highest fundamental transmitter frequency (25GHz). Final radiated emission measurements were made at 3m distance.

At each frequency where a spurious emission was found, the EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations.

For emissions between 30MHz and 1GHz, measurements were performed with a test receiver operating in the CISPR quasi-peak detection mode. The receiver's 6dB bandwidth was set to 120kHz. For emissions above 1GHz, measurements were performed with a spectrum analyzer using the following settings: for peak field strength: RBW = 1MHz & VBW \geq 1MHz; for average field strength: RBW = 1MHz & VBW = 10Hz.

Absorbers have been placed on the floor between the EUT and the measuring antenna for testing above 1GHz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. Emissions other than those mentioned are small or not detectable.

Precheck measurements were conducted first in all IEEE 802.11 protocols. Final measurement was performed in modes A, B and C for the following (worst case) configurations:

Frequency Range	Configuration for Final Measurement
9kHz-30MHz	N/A (no spurious emission was found)
30MHz-1GHz	IEEE 802.11n (40HT)
1-8GHz	IEEE 802.11b, 11g, 11n (20HT), 11n (40HT)
8-25GHz	IEEE 802.11b

Table 20: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode A (2422MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
72.001	V	51.6	-17.4	34.2	40.0	5.8	102	253
95.997	V	60.0	-19.6	40.4	43.5	3.1 (*)	113	114
144.001	H	51.7	-15.0	36.7	43.5	6.8	220	182
192.006	H	56.6	-17.0	39.6	43.5	3.9 (*)	173	148
216.034	H	53.4	-17.0	36.4	46.0	9.6	162	180
240.302	V	43.5	-15.7	27.8	46.0	18.2	101	144
250.005	H	55.0	-15.5	39.5	46.0	6.5	120	171
272.934	H	49.9	-14.4	35.5	46.0	10.5	100	287
503.996	V	47.1	-7.8	39.3	46.0	6.7	111	166
551.966	H	48.4	-6.6	41.8	46.0	4.2 (*)	148	191
576.050	H	47.1	-6.1	41.0	46.0	5.0	135	184

Note: Level QP = Reading QP + Factor

(*) The measured result is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the tested product complies with the specification limit.

Table 21: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
71.995	V	51.6	-17.4	34.2	40.0	5.8	100	250
96.004	V	55.6	-19.6	36.0	43.5	7.5	114	117
119.998	H	52.1	-17.2	34.9	43.5	8.6	284	230
144.001	V	52.8	-15.5	37.3	43.5	6.2	104	121
192.002	H	56.7	-17.0	39.7	43.5	3.8 (*)	177	254
215.996	H	53.7	-17.0	36.7	43.5	6.8	156	183
250.004	H	55.7	-15.5	40.2	46.0	5.8	111	180
269.784	H	35.9	-14.5	21.4	46.0	24.6	123	236
500.011	V	47.0	-7.9	39.1	46.0	6.9	152	202
551.917	H	45.3	-6.6	38.7	46.0	7.3	100	128
576.023	H	47.8	-6.1	41.7	46.0	4.3 (*)	136	183
907.373	H	31.0	-2.5	28.5	46.0	17.5	400	163

Note: Level QP = Reading QP + Factor

(*) The measured result is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the tested product complies with the specification limit.

Table 22: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Mode A (2452MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading QP [dBµV]	Factor [dB(1/m)]	Level QP [dBµV/m]	Limit [dBµV/m]	Margin QP [dB]	Height [cm]	Angle [°]
72.005	V	51.5	-17.4	34.1	40.0	5.9	103	243
95.992	V	59.8	-19.6	40.2	43.5	3.3 (*)	111	119
120.005	H	51.9	-17.2	34.7	43.5	8.8	175	232
135.174	V	37.8	-16.1	21.7	43.5	21.8	106	153
143.993	H	52.1	-15.0	37.1	43.5	6.4	212	191
167.996	H	53.5	-14.8	38.7	43.5	4.8	169	242
192.003	H	57.0	-17.0	40.0	43.5	3.5 (*)	149	156
215.990	H	54.7	-17.0	37.7	43.5	5.8	160	172
250.005	H	55.2	-15.5	39.7	46.0	6.3	117	175
504.004	V	47.3	-7.8	39.5	46.0	6.5	101	167
552.028	H	48.1	-6.6	41.5	46.0	4.5 (*)	150	191
576.010	H	47.3	-6.1	41.2	46.0	4.8	137	177

Note: Level QP = Reading QP + Factor

(*) The measured result is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the tested product complies with the specification limit.

Table 23: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.063	V	44.0	-18.2	25.8	54.0	28.2	107	331
1599.302	V	42.4	-17.7	24.7	54.0	29.3	158	175
3215.956	V	50.7	-12.9	37.8	54.0	16.2	171	68
19295.830	H	50.1	-11.8	38.3	54.0	15.7	189	280
24119.810	H	48.6	-12.4	36.2	54.0	17.8	140	296

Note: Level AV = Reading AV + Factor

Table 24: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.063	V	76.2	-18.2	58.0	74.0	16.0	107	331
1599.302	V	65.3	-17.7	47.6	74.0	26.4	158	175
3215.956	V	57.8	-12.9	44.9	74.0	29.1	171	68
19295.830	H	59.3	-11.8	47.5	74.0	26.5	189	280
24119.810	H	57.2	-12.4	44.8	74.0	29.2	140	296

Note: Level PK = Reading PK + Factor

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Table 25: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.540	V	42.8	-18.2	24.6	54.0	29.4	174	331
1598.977	V	40.6	-17.7	22.9	54.0	31.1	101	251
7263.483	H	38.4	-2.1	36.3	54.0	17.7	102	350
19495.850	H	48.3	-11.6	36.7	54.0	17.3	186	268
24369.790	H	54.0	-12.8	41.2	54.0	12.8	159	331

Note: Level AV = Reading AV + Factor

Table 26: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.540	V	73.8	-18.2	55.5	74.0	18.5	174	331
1598.977	V	65.1	-17.7	47.4	74.0	26.6	101	251
7263.483	H	52.5	-2.1	50.4	74.0	23.6	102	350
19495.850	H	58.9	-11.6	47.3	74.0	26.7	186	268
24369.790	H	60.7	-12.8	47.9	74.0	26.1	159	331

Note: Level PK = Reading PK + Factor

Table 27: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.365	V	43.2	-18.2	25.0	54.0	29.0	108	335
3215.966	V	48.4	-12.9	35.5	54.0	18.5	183	44
7608.765	H	37.9	-2.2	35.7	54.0	18.3	164	122
19695.842	H	42.4	-11.5	30.9	54.0	23.1	139	337
24619.820	H	57.5	-12.8	44.7	54.0	9.3	176	76

Note: Level AV = Reading AV + Factor

Table 28: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11b

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.365	V	76.4	-18.2	58.1	74.0	15.9	108	335
3215.966	V	56.4	-12.9	43.5	74.0	30.5	183	44
7608.765	H	52.5	-2.2	50.3	74.0	23.7	164	122
19695.842	H	52.7	-11.5	41.2	74.0	32.8	139	337
24619.820	H	62.5	-12.8	49.7	74.0	24.3	176	76

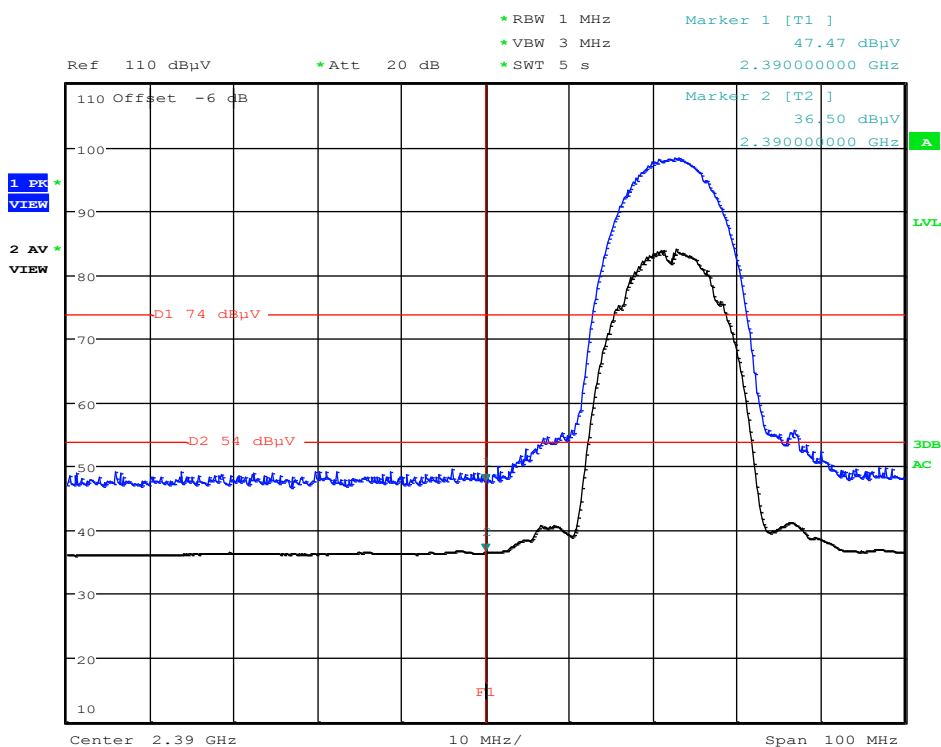
Note: Level PK = Reading PK + Factor

Table 29: Radiated Emissions at Band Edge, Average and Peak Data, Horizontal and Vertical Antenna Orientations, Modes A (2412MHz) and C (2462MHz), IEEE 802.11b

Operating Frequency [MHz]	Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2412	V	36.50	47.47	54	74	17.50	26.53
2462	V	36.60	47.53	54	74	17.40	26.47

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
 Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
 Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 74: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2412MHz), IEEE 802.11b

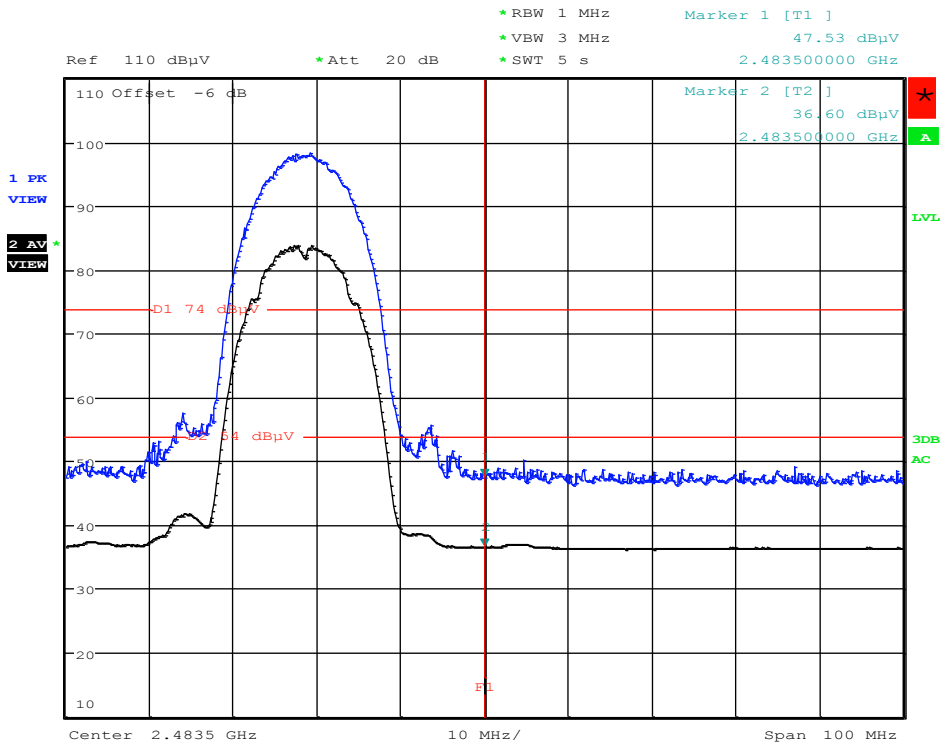


Band Edge, 2.39GHz, Mode A1, 11b

Date: 29.JAN.2016 11:53:24

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 75: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2462MHz), IEEE 802.11b



Band Edge, 2.4835GHz, Mode C1, 11b

Date: 29.JAN.2016 14:01:53

Note: The upper trace shows the peak value and the lower trace shows the average value.

Table 30: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1197.817	V	41.2	-17.1	24.1	54.0	29.9	143	166
1599.181	V	41.6	-16.6	25.0	54.0	29.0	194	172
7909.010	H	37.8	1.1	38.9	54.0	15.1	112	237

Note: Level AV = Reading AV + Factor

Table 31: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1197.817	V	73.6	-17.1	56.5	74.0	17.5	143	166
1599.181	V	64.8	-16.6	48.2	74.0	25.8	194	172
7909.010	H	51.9	1.1	53.0	74.0	21.0	112	237

Note: Level PK = Reading PK + Factor

Table 32: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1200.539	V	42.5	-17.0	25.5	54.0	28.5	161	353
1599.720	V	40.3	-16.6	23.7	54.0	30.3	200	188
7912.645	H	37.9	1.2	39.1	54.0	14.9	101	328

Note: Level AV = Reading AV + Factor

Table 33: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1200.539	V	74.7	-17.0	57.6	74.0	16.4	161	353
1599.720	V	63.6	-16.6	47.0	74.0	27.0	200	188
7912.645	H	52.2	1.2	53.3	74.0	20.7	101	328

Note: Level PK = Reading PK + Factor

Table 34: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.871	V	42.9	-17.1	25.8	54.0	28.2	134	340
1600.085	V	41.3	-16.6	24.7	54.0	29.3	102	19
7864.991	H	37.9	0.9	38.8	54.0	15.2	131	163

Note: Level AV = Reading AV + Factor

Table 35: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11g

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.871	V	75.1	-17.1	58.0	74.0	16.0	134	340
1600.085	V	63.2	-16.6	46.6	74.0	27.4	102	19
7864.991	H	52.0	0.9	52.9	74.0	21.1	131	163

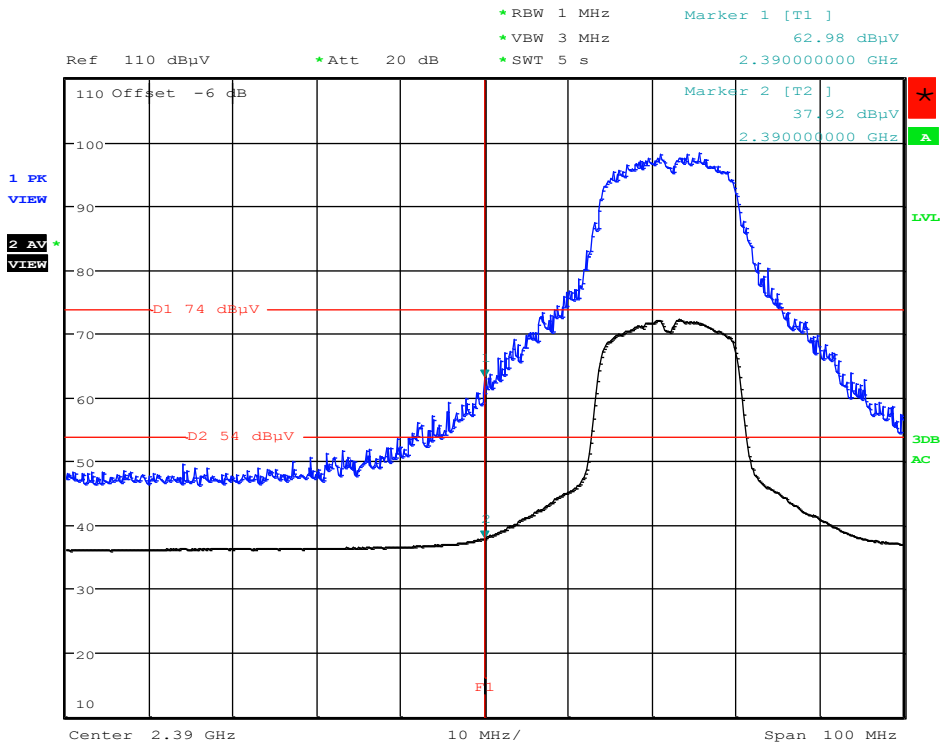
Note: Level PK = Reading PK + Factor

Table 36: Radiated Emissions at Band Edge, Average and Peak Data, Horizontal and Vertical Antenna Orientations, Modes A (2412MHz) and C (2462MHz), IEEE 802.11g

Operating Frequency [MHz]	Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2412	V	37.92	62.98	54	74	16.08	11.02
2462	V	38.25	61.71	54	74	15.75	12.29

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
 Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
 Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

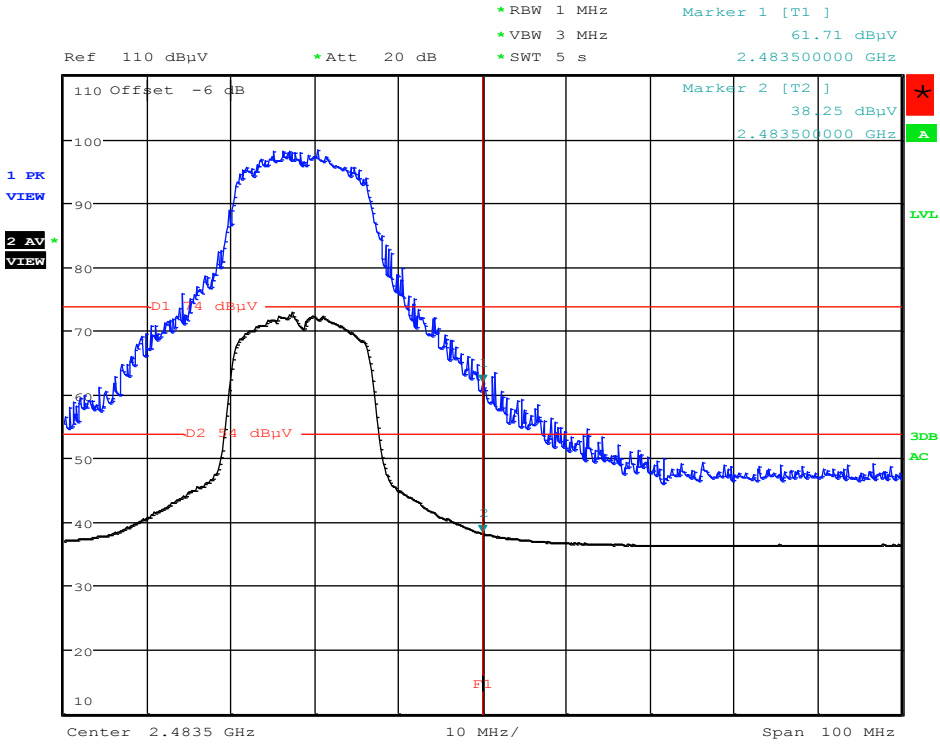
Figure 76: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2412MHz), IEEE 802.11g



Band Edge, 2.39GHz, Mode A1, 11g
Date: 29.JAN.2016 11:51:22

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 77: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2462MHz), IEEE 802.11g



Band Edge, 2.4835GHz, Mode C1, 11g

Date: 29.JAN.2016 14:04:52

Note: The upper trace shows the peak value and the lower trace shows the average value.

Table 37: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1198.951	V	42.8	-18.2	24.6	54.0	29.4	100	333
3215.970	V	50.6	-12.9	37.7	54.0	16.3	166	253
7372.905	H	38.4	-2.0	36.4	54.0	17.6	199	295

Note: Level AV = Reading AV + Factor

Table 38: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2412MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1198.951	V	75.8	-18.2	57.5	74.0	16.5	100	333
3215.970	V	56.9	-12.9	44.0	74.0	30.0	166	253
7372.905	H	52.2	-2.0	50.2	74.0	23.8	199	295

Note: Level PK = Reading PK + Factor

Table 39: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.540	V	42.8	-18.2	24.6	54.0	29.4	174	331
1598.977	V	40.6	-17.7	22.9	54.0	31.1	101	251
7263.483	H	38.4	-2.1	36.3	54.0	17.7	102	350

Note: Level AV = Reading AV + Factor

Table 40: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.540	V	73.8	-18.2	55.5	74.0	18.5	174	331
1598.977	V	65.1	-17.7	47.4	74.0	26.6	101	251
7263.483	H	52.5	-2.1	50.4	74.0	23.6	102	350

Note: Level PK = Reading PK + Factor

Table 41: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1196.458	V	44.5	-18.3	26.2	54.0	27.8	133	329
1600.317	V	41.8	-17.7	24.1	54.0	29.9	183	177
3215.965	V	51.9	-12.9	39.0	54.0	15.0	177	55

Note: Level AV = Reading AV + Factor

Table 42: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2462MHz), IEEE 802.11n (20HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1196.458	V	76.3	-18.3	58.1	74.0	15.9	133	329
1600.317	V	65.4	-17.7	47.7	74.0	26.3	183	177
3215.965	V	57.9	-12.9	45.0	74.0	29.0	177	55

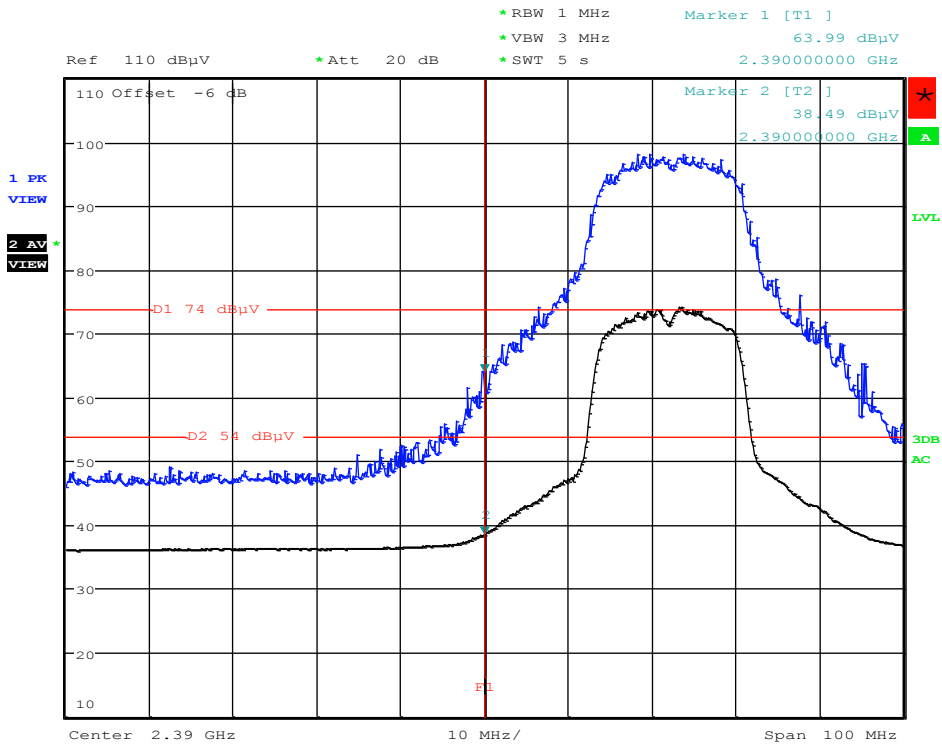
Note: Level PK = Reading PK + Factor

Table 43: Radiated Emissions at Band Edge, Average and Peak Data, Horizontal and Vertical Antenna Orientations, Modes A (2412MHz) and C (2462MHz), IEEE 802.11n (20HT)

Operating Frequency [MHz]	Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2412	V	38.49	63.99	54	74	15.51	10.01
2462	V	38.45	60.37	54	74	15.55	13.63

Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
 Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
 Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 78: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2412MHz), IEEE 802.11n (20HT)

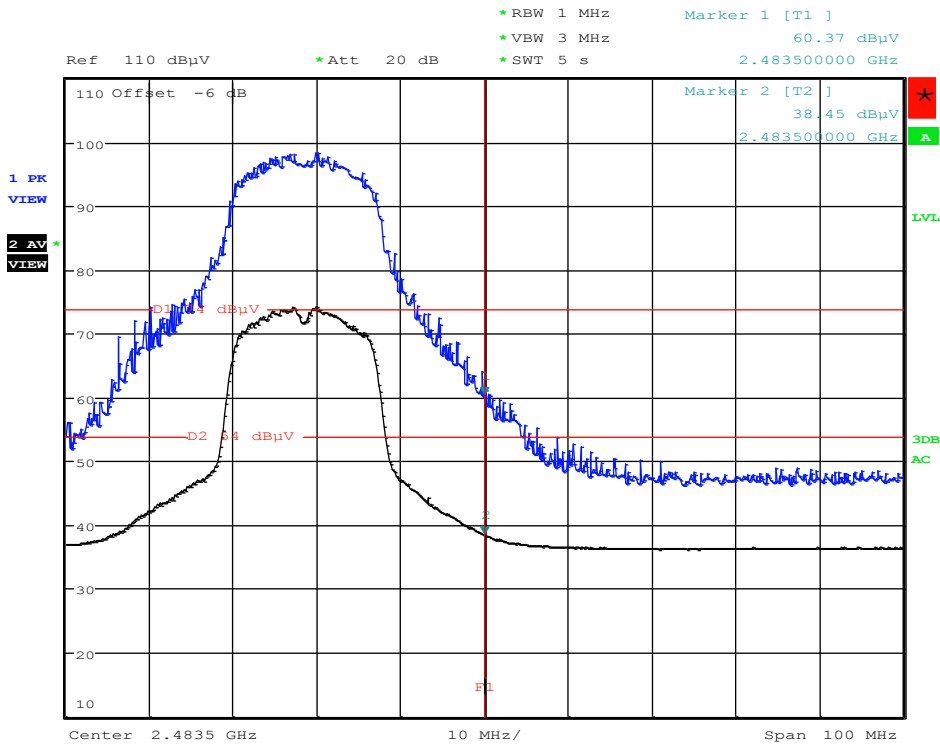


Band Edge, 2.39GHz, Mode A1, 11n (20HT)

Date: 29.JAN.2016 11:55:27

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 79: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2462MHz), IEEE 802.11n (20HT)



Band Edge, 2.4835GHz, Mode C1, 11n (20HT)

Date: 29.JAN.2016 14:07:02

Note: The upper trace shows the peak value and the lower trace shows the average value.

Table 44: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2422MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1197.645	V	44.1	-18.2	25.9	54.0	28.1	126	326
2278.126	H	39.0	-14.6	24.4	54.0	29.6	142	113
2562.107	H	39.5	-15.1	24.4	54.0	29.6	194	277
3215.973	V	49.7	-12.9	36.8	54.0	17.2	165	262

Note: Level AV = Reading AV + Factor

Table 45: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode A (2422MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1197.645	V	76.1	-18.2	57.8	74.0	16.2	126	326
2278.126	H	53.5	-14.6	38.9	74.0	35.1	142	113
2562.107	H	54.4	-15.1	39.3	74.0	34.7	194	277
3215.973	V	57.3	-12.9	44.4	74.0	29.6	165	262

Note: Level PK = Reading PK + Factor

Table 46: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1195.710	V	43.3	-18.3	25.0	54.0	29.0	162	328
1601.918	V	41.4	-17.7	23.7	54.0	30.3	127	244
2379.454	H	40.7	-14.7	26.0	54.0	28.0	171	23

Note: Level AV = Reading AV + Factor

Table 47: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode B (2437MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1195.710	V	75.3	-18.3	57.0	74.0	17.0	162	328
1601.918	V	64.0	-17.7	46.3	74.0	27.7	127	244
2379.454	H	68.3	-14.7	53.6	74.0	20.4	171	23

Note: Level PK = Reading PK + Factor

Table 48: Radiated Emissions, Average Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2452MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1199.766	V	43.6	-18.2	25.4	54.0	28.6	100	335
3215.931	V	50.8	-12.9	37.9	54.0	16.1	178	69
7427.037	H	38.2	-2.0	36.2	54.0	17.8	170	193

Note: Level AV = Reading AV + Factor

Table 49: Radiated Emissions, Peak Data, 1 - 8GHz, Horizontal and Vertical Antenna Orientations, Mode C (2452MHz), IEEE 802.11n (40HT)

Freq. [MHz]	Antenna Orientation	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1199.766	V	75.3	-18.2	57.1	74.0	16.9	100	335
3215.931	V	57.5	-12.9	44.6	74.0	29.4	178	69
7427.037	H	52.2	-2.0	50.2	74.0	23.8	170	193

Note: Level PK = Reading PK + Factor

Table 50: Radiated Emissions at Band Edge, Average and Peak Data, Horizontal and Vertical Antenna Orientations, Modes A (2422MHz) and C (2452MHz), IEEE 802.11n (40HT)

Operating Frequency [MHz]	Antenna Orientation	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2422	V	39.58	63.88	54	74	14.42	10.12
2452	V	39.57	63.83	54	74	14.43	10.17

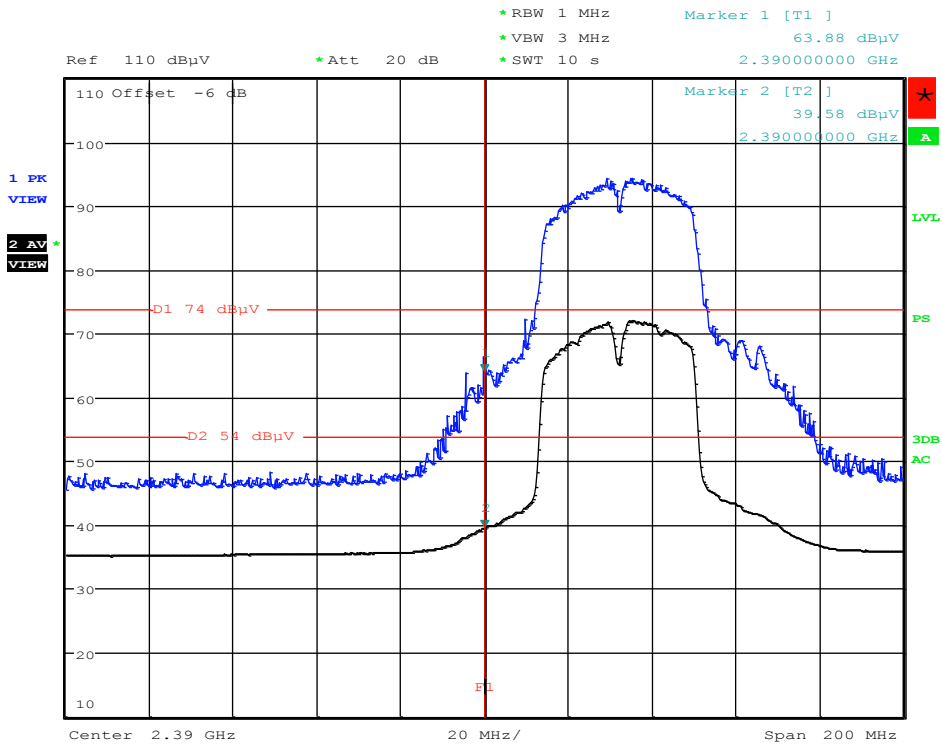
Notes: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
 Average limit in dBµV/m is calculated as follows: Average limit = 20 x log(500µV/m).
 Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

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Figure 80: Radiated Emissions at Band Edge, Spectral Diagram, Mode A (2422MHz), IEEE 802.11n (40HT)

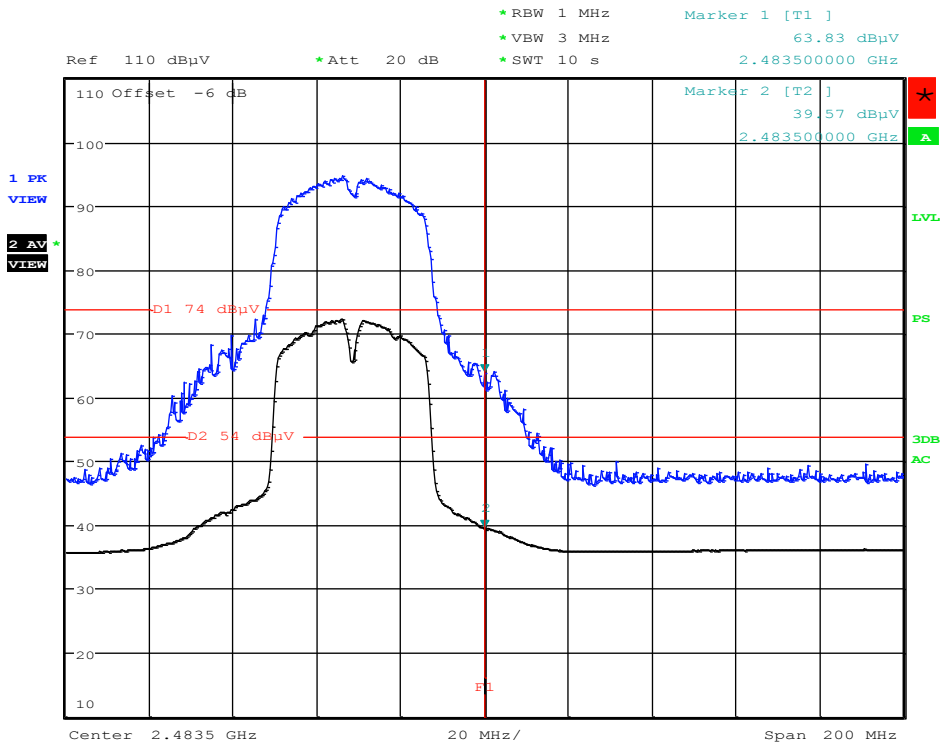


Band Edge, 2.39GHz, Mode A1, 11n (40HT)

Date: 29.JAN.2016 16:31:44

Note: The upper trace shows the peak value and the lower trace shows the average value.

Figure 81: Radiated Emissions at Band Edge, Spectral Diagram, Mode C (2452MHz), IEEE 802.11n (40HT)



Band Edge, 2.4835GHz, Mode C1, 11n (40HT)

Date: 29.JAN.2016 16:41:56

Note: The upper trace shows the peak value and the lower trace shows the average value.

5.4 AC Power Line Conducted Measurements

5.4.1 AC Power Line Conducted Emission of Transmitter

RESULT: **PASS**

Date of testing: 2016-01-13, 2016-01-29

Ambient temperature: 25, 25°C

Relative humidity: 39, 39%

Atmospheric pressure: 1012, 1019hPa

Frequency range: 0.15 - 30MHz

Kind of test site: Shielded Room

Requirements:

FCC 15.207 and RSS-Gen 8.8

The AC power line conducted emission on any frequency within the band 150kHz to 30MHz shall not exceed the limits specified in FCC 15.207 and RSS-Gen 8.8 (table 3).

Test procedure:

ANSI C63.10-2013 and RSS-Gen 8.1

The EUT was placed on a wooden table raised 80cm above the reference ground plane. A vertical conducting plane of the screened room was located 40cm to the rear of the EUT. The AC adapter of the EUT was connected to a Line Impedance Stabilization Network (LISN).

The physical arrangement of the test system and associated cabling was varied to determine the effect on the EUT's emissions in amplitude and frequency in order to ensure that maximum emission amplitudes were attained.

The measurements were performed with a test receiver operating in the CISPR quasi-peak and average detection modes. The receiver's 6dB bandwidth was set to 9kHz.

Disturbances other than those mentioned are small or not detectable.

Precheck measurements were conducted first in all protocols. Final measurement was performed in modes A, B and C for the worst case protocol only (IEEE 802.11b).

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Table 51: AC Power Line Conducted Emission, Quasi Peak and Average Data, 0.15 - 30MHz, Phase N (N) and L1 (L), Mode A (2412MHz), IEEE 802.11b

Freq. [MHz]	Phase	Reading QP [dBµV]	Reading AV [dBµV]	Factor [dB]	Level QP [dBµV]	Level AV [dBµV]	Limit QP [dBµV]	Limit AV [dBµV]	Margin QP [dB]	Margin AV [dB]
0.16079	L1	46.7	29.0	9.6	56.3	38.6	65.4	55.4	9.1	16.8
0.24047	L1	36.6	22.3	9.6	46.2	31.9	62.1	52.1	15.9	20.2
0.29022	L1	32.7	20.6	9.6	42.3	30.2	60.5	50.5	18.2	20.3
0.37666	N	24.5	16.0	9.7	34.2	25.7	58.4	48.4	24.2	22.7
0.45926	L1	30.0	24.7	9.6	39.6	34.3	56.7	46.7	17.1	12.4
0.91531	L1	23.1	16.3	9.7	32.8	26.0	56.0	46.0	23.2	20.0
0.98908	N	23.1	17.2	9.7	32.8	26.9	56.0	46.0	23.2	19.1
3.79809	N	21.8	16.0	9.8	31.6	25.8	56.0	46.0	24.4	20.2
11.74007	L1	24.1	18.1	10.1	34.2	28.2	60.0	50.0	25.8	21.8

Note: Level QP = Reading QP + Factor, Level AV = Reading AV + Factor

Table 52: AC Power Line Conducted Emission, Quasi Peak and Average Data, 0.15 - 30MHz, Phase N (N) and L1 (L), Mode B (2437MHz), IEEE 802.11b

Freq. [MHz]	Phase	Reading QP [dBµV]	Reading AV [dBµV]	Factor [dB]	Level QP [dBµV]	Level AV [dBµV]	Limit QP [dBµV]	Limit AV [dBµV]	Margin QP [dB]	Margin AV [dB]
0.15107	N	47.5	28.0	9.6	57.1	37.6	65.9	55.9	8.8	18.3
0.20252	N	41.4	25.2	9.6	51.0	34.8	63.5	53.5	12.5	18.7
0.22159	L1	38.4	23.9	9.6	48.0	33.5	62.8	52.8	14.8	19.3
0.47805	L1	30.5	25.5	9.6	40.1	35.1	56.4	46.4	16.3	11.3
0.89245	N	22.2	15.1	9.7	31.9	24.8	56.0	46.0	24.1	21.2
0.97237	L1	23.5	17.5	9.7	33.2	27.2	56.0	46.0	22.8	18.8
3.63134	L1	22.0	16.0	9.8	31.8	25.8	56.0	46.0	24.2	20.2
17.00416	L1	25.3	18.7	10.2	35.5	28.9	60.0	50.0	24.5	21.1

Note: Level QP = Reading QP + Factor, Level AV = Reading AV + Factor

Table 53: AC Power Line Conducted Emission, Quasi Peak and Average Data, 0.15 - 30MHz, Phase N (N) and L1 (L), Mode C (2462MHz)

Freq. [MHz]	Phase	Reading QP [dBµV]	Reading AV [dBµV]	Factor [dB]	Level QP [dBµV]	Level AV [dBµV]	Limit QP [dBµV]	Limit AV [dBµV]	Margin QP [dB]	Margin AV [dB]
0.15024	L1	48.1	28.6	9.6	57.7	38.2	66.0	56.0	8.3	17.8
0.28701	L1	32.8	20.7	9.6	42.4	30.3	60.6	50.6	18.2	20.3
0.38619	N	24.6	16.5	9.7	34.3	26.2	58.1	48.1	23.8	21.9
0.45999	L1	30.2	24.8	9.6	39.8	34.4	56.7	46.7	16.9	12.3
0.90099	L1	22.8	15.9	9.7	32.5	25.6	56.0	46.0	23.5	20.4
0.98262	N	23.1	17.2	9.7	32.8	26.9	56.0	46.0	23.2	19.1
3.63103	L1	22.1	16.0	9.8	31.9	25.8	56.0	46.0	24.1	20.2
4.01877	N	21.9	15.5	9.9	31.8	25.4	56.0	46.0	24.2	20.6
16.94468	L1	25.2	18.7	10.2	35.4	28.9	60.0	50.0	24.6	21.1

Note: Level QP = Reading QP + Factor, Level AV = Reading AV + Factor

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