

3.4. Test result

Ambient temperature : (24 ± 2) °C
Relative humidity : 49 % R.H.

Mode: 11a

Operating mode	Data Rate (Mbps)	Frequency (MHz)	26 dB bandwidth (MHz)
Non - DFS	6	5 180	18.55
	6	5 220	18.65
	6	5 240	18.85
DFS	6	5 260	18.85
	6	5 300	18.90
	6	5 320	18.95
DFS	6	5 500	18.75
	6	5 580	18.85
	6	5 700	18.90

Mode: 11n_HT20

Operating mode	Data Rate (Mbps)	Frequency (MHz)	26 dB bandwidth (MHz)
Non - DFS	MCS0	5 180	19.30
	MCS0	5 220	19.40
	MCS0	5 240	19.05
DFS	MCS0	5 260	19.50
	MCS0	5 300	19.30
	MCS0	5 320	19.30
DFS	MCS0	5 500	19.40
	MCS0	5 580	19.15
	MCS0	5 700	19.05

Mode: 11n_HT40

Operating mode	Data Rate (Mbps)	Frequency (MHz)	26 dB bandwidth (MHz)
Non - DFS	MCS0	5 190	42.80
	MCS0	5 230	42.70
DFS	MCS0	5 270	41.50
	MCS0	5 310	42.90
	MCS0	5 510	46.20
	MCS0	5 550	45.10
	MCS0	5 670	43.40

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26 dB Bandwidth

802.11a (Non-DFS)

Low Channel (5 180 MHz)



Middle Channel (5 220 MHz)



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High Channel (5 240 MHz)



802.11a (DFS)

Low Channel (5 260 MHz)



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Middle Channel (5 300 MHz)



High Channel (5 320 MHz)



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802.11a (DFS)

Low Channel (5 500 MHz)



Middle Channel (5 580 MHz)



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High Channel (5 700 MHz)



802.11n-HT20 (Non-DFS)

Low Channel (5 180 MHz)



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Middle Channel (5 220 MHz)



High Channel (5 240 MHz)



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802.11n-HT20 (DFS)

Low Channel (5 260 MHz)



Middle Channel (5 300 MHz)



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High Channel (5 320 MHz)



802.11n-HT20 (DFS)

Low Channel (5 500 MHz)



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Middle Channel (5 580 MHz)



High Channel (5 700 MHz)



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802.11n-HT40 (Non-DFS)

Low Channel (5 190 MHz)



High Channel (5 230 MHz)



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802.11n-HT40 (DFS)

Low Channel (5 270 MHz)



High Channel (5 310 MHz)



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802.11n-HT40 (DFS)

Low Channel (5 510 MHz)



Low Channel (5 550 MHz)



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High Channel (5 670 MHz)



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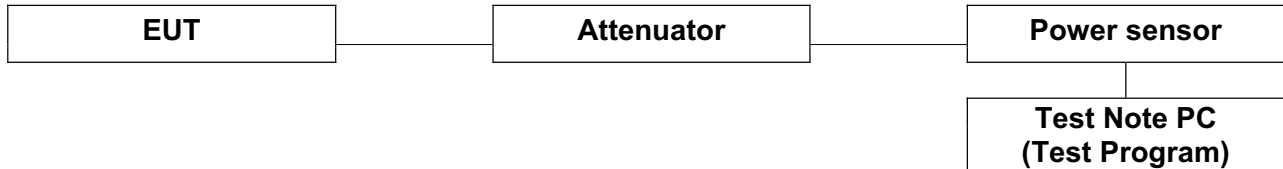
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4. Output power

4.1. Test setup



4.2. Limit

4.2.1. FCC 15.407

(a)(1)

For the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10 log B, where B is the 26-dB emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a)(2)

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.3. Test procedure

-11an_HT20, HT40

1. This measurement settings are specified in clause 4) of section C of KDB 789033.
2. As an alternative to spectrum analyzer measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
 - The EUT is configured to transmit continuously or to transmit with a consistent duty factor.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
3. If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).
4. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
5. Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log(1/0.25) if the duty cycle is 25 percent).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report cannot be reproduced, except in full, without prior written permission of the Company.

4.4. Test result

Ambient temperature : (24 ± 2) °C
Relative humidity : 49 % R.H.

4.4.1. Limit

-11a

Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	4+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11a	5 180	6	17	18.55	16.68	2.83	16.68
	5 220	6	17	18.65	16.71	2.83	16.71
	5 240	6	17	18.85	16.75	2.83	16.75
Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11a	5 260	6	24	18.85	23.75	2.83	23.75
	5 300	6	24	18.90	23.76	2.83	23.76
	5 320	6	24	18.95	23.78	2.83	23.78
	5 500	6	24	18.75	23.73	1.95	23.73
	5 580	6	24	18.85	23.75	1.95	23.75
	5 700	6	24	18.90	23.76	1.95	23.76

-11n_HT20

Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	4+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11n_HT20	5 180	MCS0	17	19.30	16.86	2.83	16.86
	5 220	MCS0	17	19.40	16.88	2.83	16.88
	5 240	MCS0	17	19.05	16.80	2.83	16.80
Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11n_HT20	5 260	MCS0	24	19.50	23.90	2.83	23.90
	5 300	MCS0	24	19.30	23.86	2.83	23.86
	5 320	MCS0	24	19.30	23.86	2.83	23.86
	5 500	MCS0	24	19.40	23.88	1.95	23.88
	5 580	MCS0	24	19.15	23.82	1.95	23.82
	5 700	MCS0	24	19.05	23.80	1.95	23.80

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-11n_HT40

Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	4+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11n_HT40	5 190	MCS0	17	42.80	20.31	2.83	17
	5 230	MCS0	17	42.70	20.30	2.83	17
Mode	Frequency (MHz)	Data Rate (Mbps)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna gain (dB i)	Limit (dB)
11n_HT40	5 270	MCS0	24	41.50	27.18	2.83	24
	5 310	MCS0	24	42.90	27.32	2.83	24
	5 510	MCS0	24	46.20	27.65	1.95	24
	5 550	MCS0	24	45.10	27.54	1.95	24
	5 670	MCS0	24	43.40	27.37	1.95	24

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4.4.1. Result

-11a

Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
Non DFS 11a	Low	6	5 180	12.70	16.68
		9		12.55	16.68
		12		12.43	16.68
		18		12.10	16.68
		24		11.95	16.68
		36		11.83	16.68
		48		11.54	16.68
		54		11.19	16.68
	Middle	6	5 220	12.56	16.71
		9		12.44	16.71
		12		12.10	16.71
		18		11.83	16.71
		24		11.74	16.71
		36		11.63	16.71
		48		11.00	16.71
		54		10.96	16.71
	High	6	5 240	12.60	16.75
		9		12.45	16.75
		12		12.23	16.75
		18		12.22	16.75
		24		11.95	16.75
		36		11.43	16.75
		48		11.32	16.75
		54		11.01	16.75

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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11a	Lower Band	6	5 260	12.65	23.75
		9		12.44	23.75
		12		12.20	23.75
		18		12.12	23.75
		24		12.00	23.75
		36		11.85	23.75
		48		11.41	23.75
		54		11.07	23.75
		6	5 300	12.45	23.76
		9		12.15	23.76
		12		12.11	23.76
		18		11.93	23.76
		24		11.85	23.76
		36		11.43	23.76
		48		11.05	23.76
		54		10.85	23.76
		6	5 320	12.53	23.78
		9		12.47	23.78
		12		12.30	23.78
		18		11.93	23.78
		24		11.85	23.78
		36		11.42	23.78
		48		11.05	23.78
		54		10.96	23.78

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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11a	Upper Band	6	5 500	12.35	23.73
		9		12.10	23.73
		12		12.00	23.73
		18		11.83	23.73
		24		11.74	23.73
		36		11.43	23.73
		48		11.22	23.73
		54		10.78	23.73
		6	5 580	12.36	23.75
		9		12.15	23.75
		12		12.00	23.75
		18		11.83	23.75
		24		11.64	23.75
		36		11.41	23.75
		48		11.24	23.75
		54		10.80	23.75
		6	5 700	12.52	23.76
		9		12.44	23.76
		12		12.03	23.76
		18		11.83	23.76
		24		11.74	23.76
		36		11.52	23.76
		48		11.05	23.76
		54		10.98	23.76

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-11n_HT20

Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
Non DFS 11n_HT20	Low	MCS0	5 180	11.58	16.86
		MCS1		11.20	16.86
		MCS2		11.11	16.86
		MCS3		10.83	16.86
		MCS4		10.77	16.86
		MCS5		10.52	16.86
		MCS6		10.25	16.86
		MCS7		9.90	16.86
	Middle	MCS0	5 220	11.33	16.88
		MCS1		11.25	16.88
		MCS2		11.00	16.88
		MCS3		10.85	16.88
		MCS4		10.43	16.88
		MCS5		10.30	16.88
		MCS6		10.29	16.88
		MCS7		9.74	16.88
	High	MCS0	5 240	11.44	16.80
		MCS1		11.21	16.80
		MCS2		10.89	16.80
		MCS3		10.74	16.80
		MCS4		10.63	16.80
		MCS5		10.11	16.80
		MCS6		9.85	16.80
		MCS7		9.73	16.80

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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11n_HT20	Lower Band	MCS0	5 260	11.50	23.90
		MCS1		11.23	23.90
		MCS2		11.00	23.90
		MCS3		10.89	23.90
		MCS4		10.74	23.90
		MCS5		10.43	23.90
		MCS6		10.25	23.90
		MCS7		9.92	23.90
		MCS0	5 300	11.30	23.86
		MCS1		11.15	23.86
		MCS2		11.03	23.86
		MCS3		10.89	23.86
		MCS4		10.77	23.86
		MCS5		10.43	23.86
		MCS6		10.11	23.86
		MCS7		9.61	23.86
		MCS0	5 320	11.41	23.86
		MCS1		11.30	23.86
		MCS2		10.93	23.86
		MCS3		10.74	23.86
		MCS4		10.60	23.86
		MCS5		10.25	23.86
		MCS6		9.89	23.86
		MCS7		9.74	23.86

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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11n_HT20	Upper Band	MCS0	5 500	11.26	23.88
		MCS1		11.03	23.88
		MCS2		10.78	23.88
		MCS3		10.43	23.88
		MCS4		10.33	23.88
		MCS5		10.25	23.88
		MCS6		9.92	23.88
		MCS7		9.63	23.88
		MCS0	5 580	11.25	23.82
		MCS1		11.10	23.82
		MCS2		10.89	23.82
		MCS3		10.77	23.82
		MCS4		10.43	23.82
		MCS5		10.23	23.82
		MCS6		9.83	23.82
		MCS7		9.60	23.82
		MCS0	5 700	11.49	23.80
		MCS1		11.15	23.80
		MCS2		10.89	23.80
		MCS3		10.74	23.80
		MCS4		10.36	23.80
		MCS5		10.13	23.80
		MCS6		9.89	23.80
		MCS7		9.81	23.80

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-11n_HT40

Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
Non DFS 11n_HT40	Low	MCS0	5 190	9.31	17
		MCS1		9.25	17
		MCS2		9.11	17
		MCS3		8.43	17
		MCS4		8.21	17
		MCS5		8.11	17
		MCS6		7.83	17
		MCS7		7.02	17
	High	MCS0	5 230	9.24	17
		MCS1		9.11	17
		MCS2		8.46	17
		MCS3		8.33	17
		MCS4		8.21	17
		MCS5		7.63	17
		MCS6		7.43	17
		MCS7		6.85	17

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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11n_HT40	Lower Band	MCS0	5 270	9.31	24
		MCS1		9.11	24
		MCS2		8.88	24
		MCS3		8.57	24
		MCS4		8.22	24
		MCS5		8.10	24
		MCS6		7.59	24
		MCS7		6.93	24
		MCS0	5 310	9.19	24
		MCS1		9.00	24
		MCS2		8.74	24
		MCS3		8.43	24
		MCS4		8.22	24
		MCS5		8.10	24
		MCS6		7.69	24
		MCS7		6.83	24

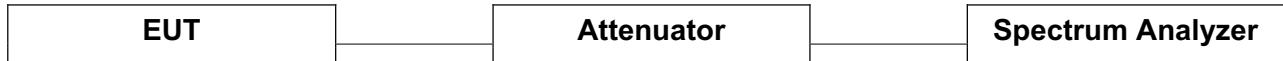
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Operation Mode	Channel	Data rate	Channel Frequency (MHz)	Result (dB m)	Limit (dB m)
DFS 11n_HT40	Upper Band	MCS0	5 510	9.15	24
		MCS1		9.00	24
		MCS2		8.83	24
		MCS3		8.46	24
		MCS4		8.22	24
		MCS5		7.83	24
		MCS6		7.45	24
		MCS7		6.85	24
		MCS0	5 550	9.33	24
		MCS1		9.11	24
		MCS2		9.00	24
		MCS3		8.73	24
		MCS4		8.46	24
		MCS5		8.22	24
		MCS6		7.63	24
		MCS7		6.93	24
		MCS0	5 670	9.28	24
		MCS1		9.11	24
		MCS2		8.88	24
		MCS3		8.43	24
		MCS4		8.25	24
		MCS5		8.11	24
		MCS6		7.56	24
		MCS7		6.94	24

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5. Peak power spectral density

5.1. Test setup



5.2. Limit

5.2.1. FCC 15.407

(a)(1)

For the band 5.15-5.25 GHz band, the peak power spectral density shall not exceed 4 dBm in any 1 MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a)(2)

For the band 5.25–5.35 GHz and 5.47–5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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5.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in clause b) of section C of KDB 789033.
2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
3. Set RBW = 1 MHz
4. Set VBW $\geq$ 3 MHz
5. Number of points in sweep $\geq$ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
8. if transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq$ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
9. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
10. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
11. The result is the PPSD.

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5.4. Test result

Ambient temperature : (24 ± 2) °C
Relative humidity : 49 % R.H.

5.4.1. Non-DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (MHz)	Peak power spectral density (dB m)	Limit (dB m)
11a	Low	6	5 180	2.848	4
	Middle	6	5 220	2.616	
	High	6	5 240	2.690	
11n_HT20	Low	MCS0	5 180	1.511	
	Middle	MCS0	5 220	1.045	
	High	MCS0	5 240	1.365	
11n_HT40	Low	MCS0	5 190	-5.277	
	High	MCS0	5 230	-5.107	

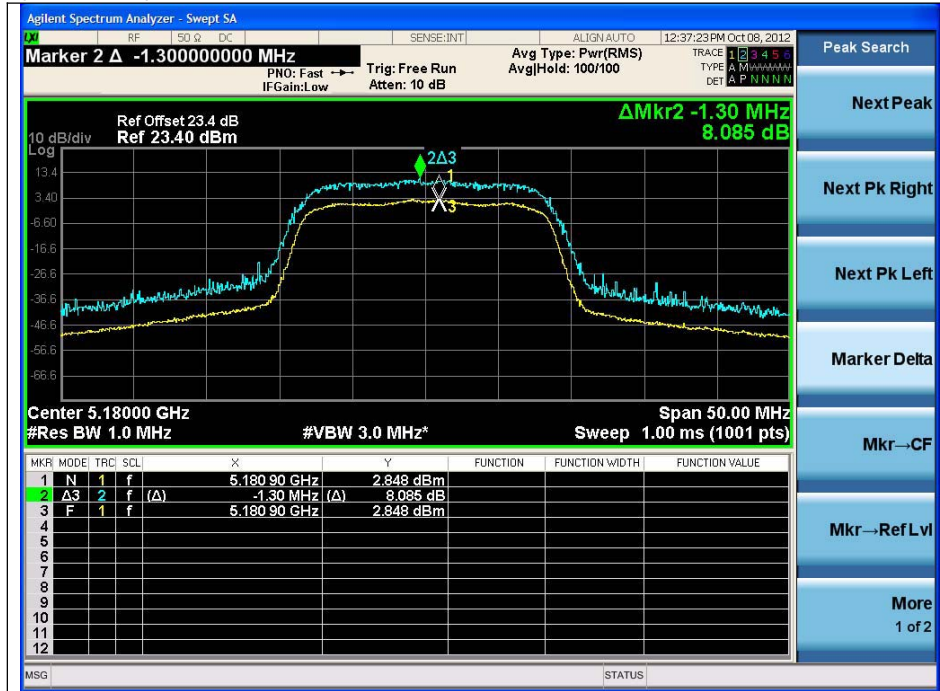
5.4.2. DFS Band

Operation Mode	Channel	Data Rate (Mbps)	Channel Frequency (MHz)	Peak power spectral density (dB m)	Limit (dB m)
11a	Lower Band	6	5 260	2.200	11
		6	5 300	2.474	
		6	5 320	2.500	
	Upper Band	6	5 500	2.636	
		6	5 580	2.759	
		6	5 700	3.256	
11n_HT20	Lower Band	MCS0	5 260	0.775	
		MCS0	5 300	1.192	
		MCS0	5 320	0.694	
	Upper Band	MCS0	5 500	0.800	
		MCS0	5 580	1.408	
		MCS0	5 700	1.348	
11n_HT40	Lower Band	MCS0	5 270	-5.758	
		MCS0	5 310	-5.497	
	Upper Band	MCS0	5 510	-5.247	
		MCS0	5 550	-5.285	
		MCS0	5 670	-4.931	

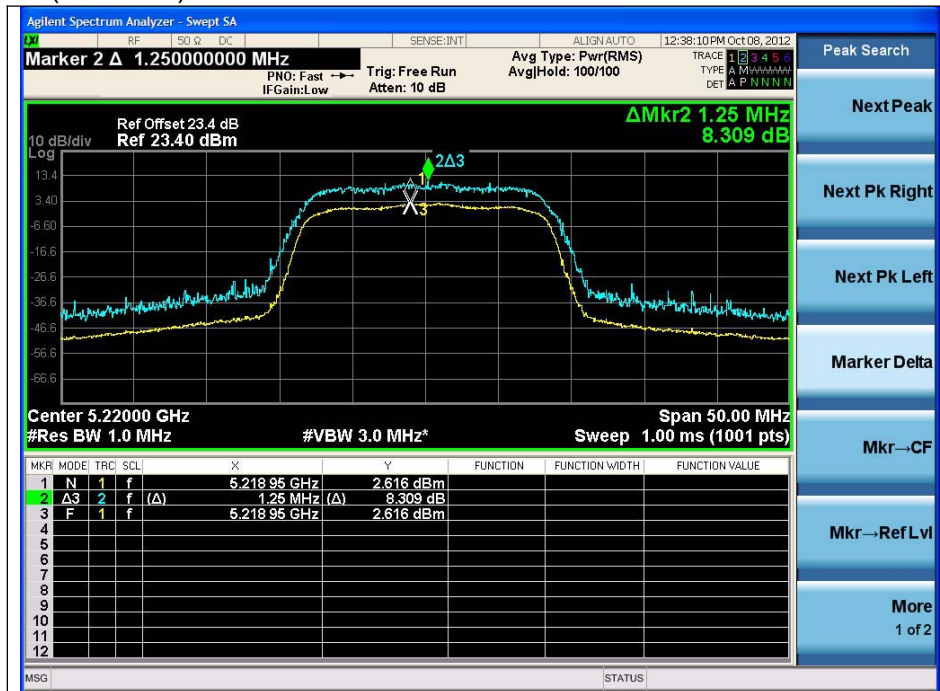
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802.11a (Non-DFS)

Low Channel (5 180 MHz)



Middle Channel (5 220 MHz)



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