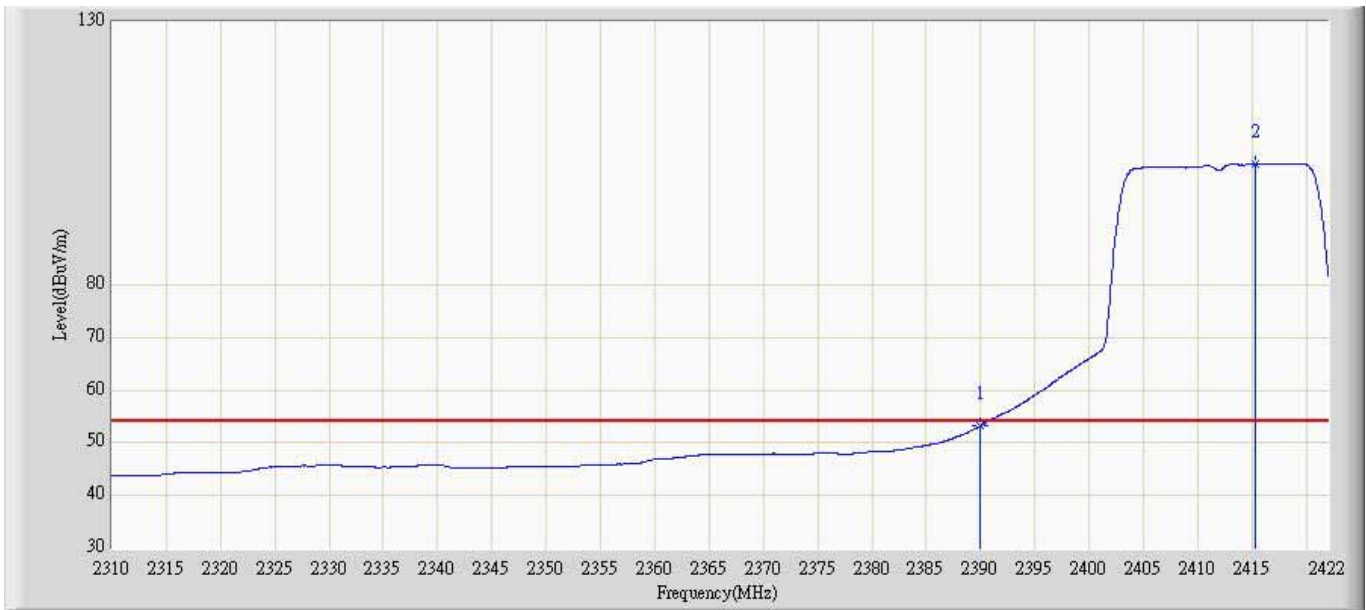
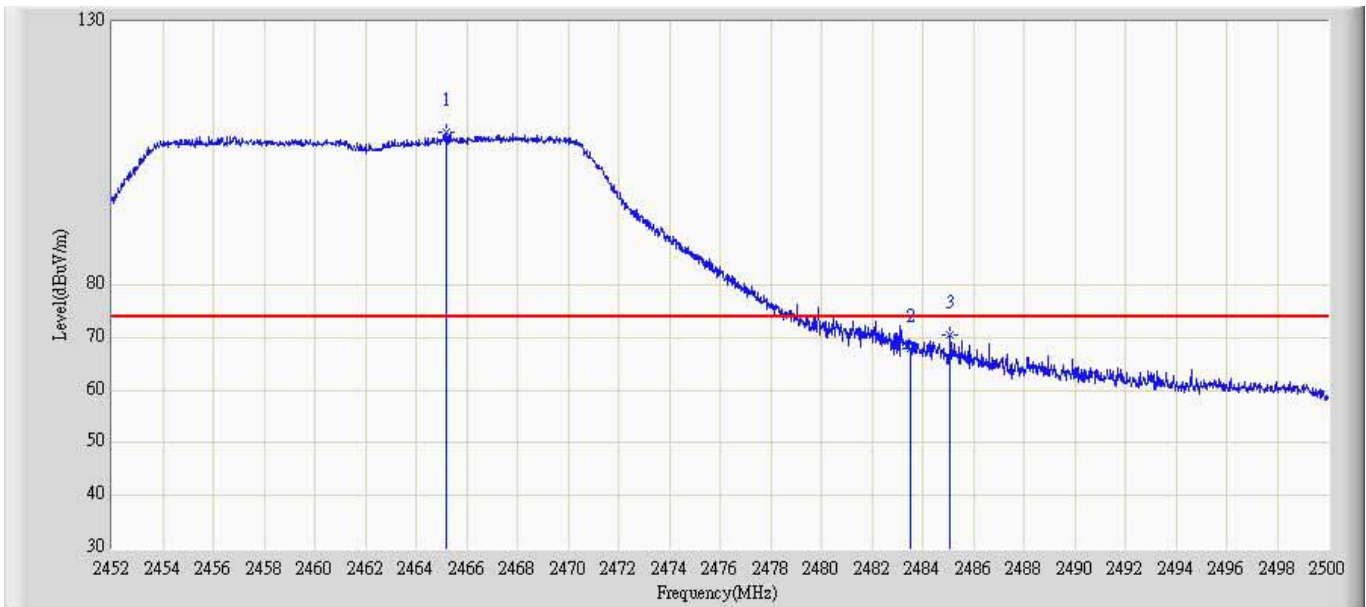


Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n20MHz Ant 100	



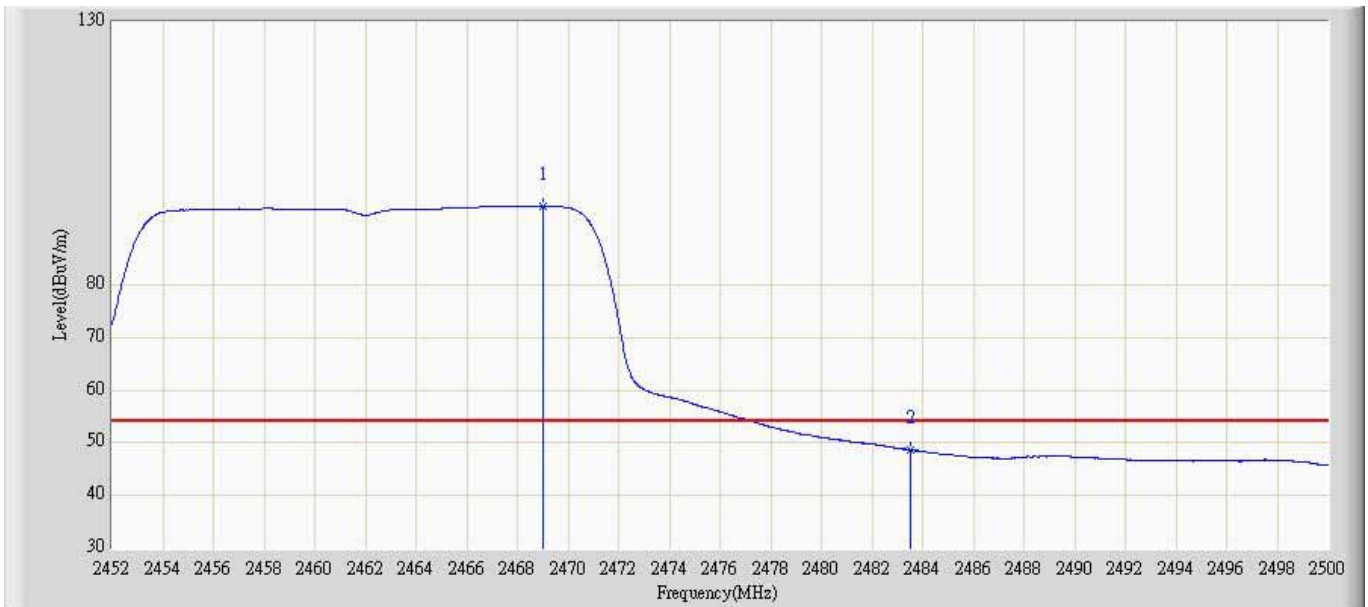
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.264	22.176	-0.736	54.000	31.088	AV
2	*	2415.280	103.000	71.740	N/A	N/A	31.260	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 100	



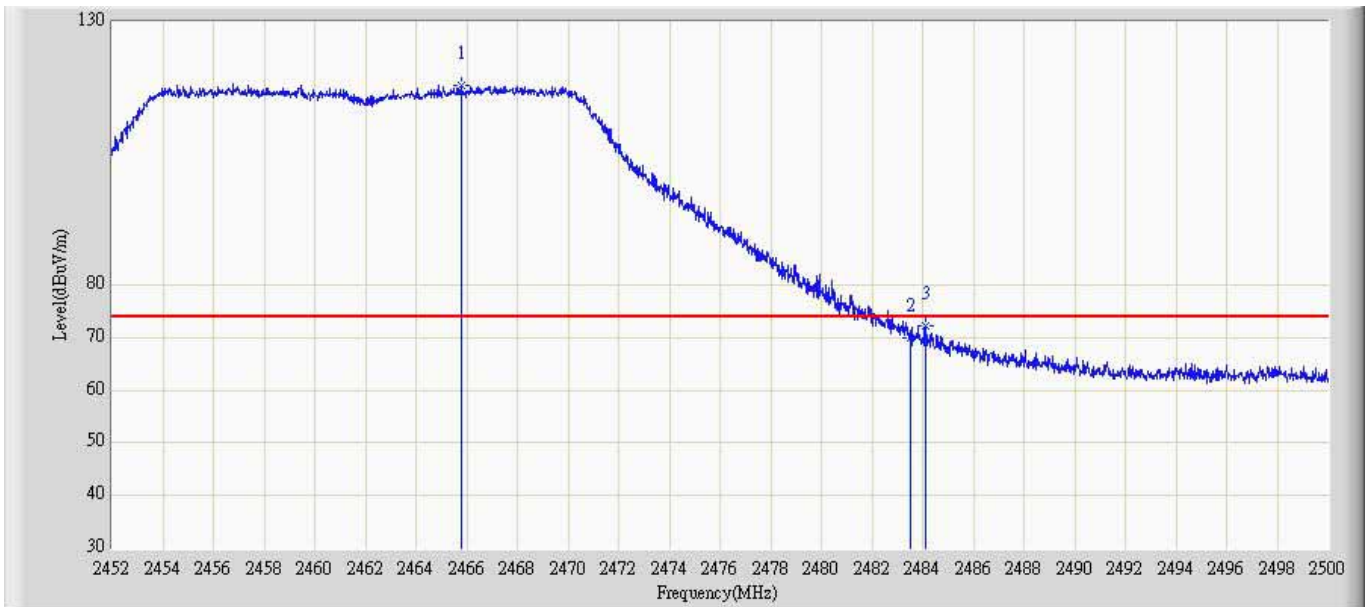
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.200	109.076	77.481	N/A	N/A	31.595	PK
2		2483.500	67.934	36.321	-6.066	74.000	31.613	PK
3		2485.096	70.432	38.817	-3.568	74.000	31.615	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 100	



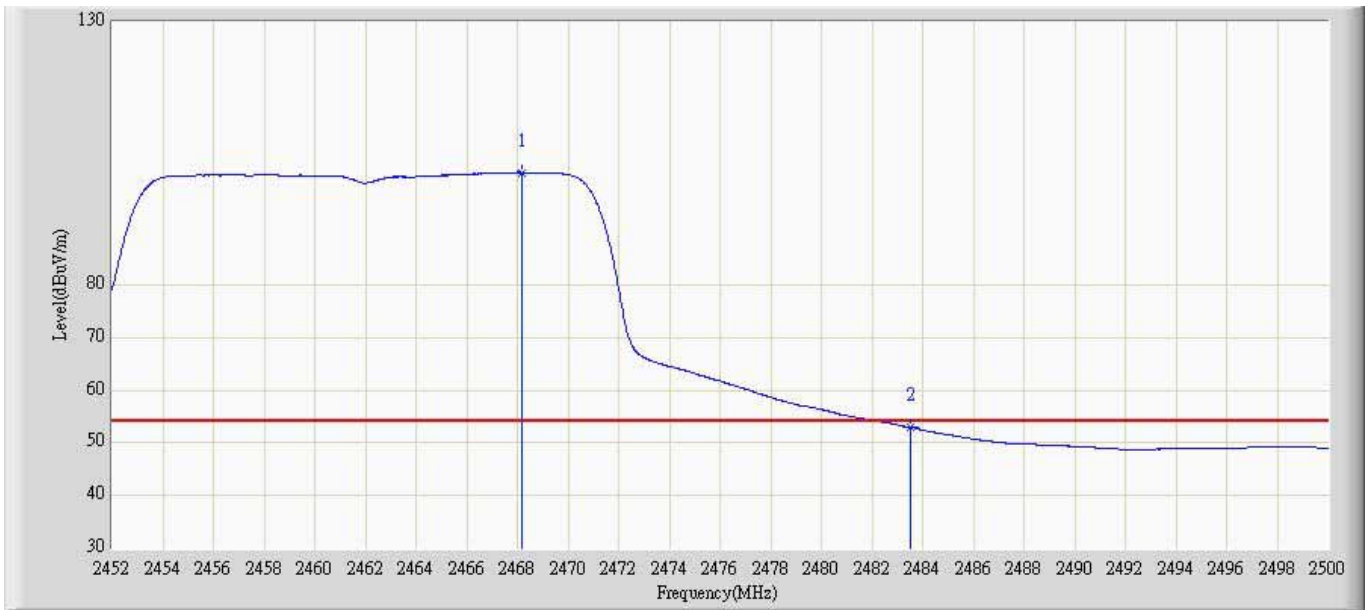
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.992	95.064	63.465	N/A	N/A	31.599	AV
2		2483.500	48.673	17.060	-5.327	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 100	



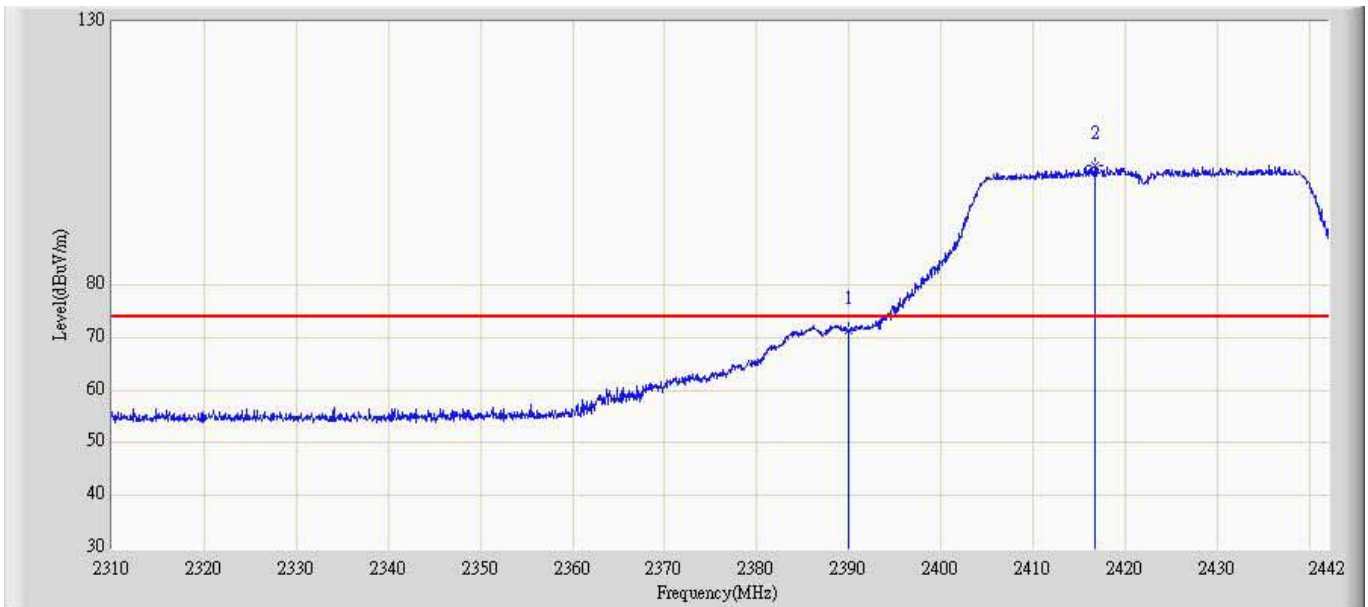
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.800	118.070	86.474	N/A	N/A	31.595	PK
2		2483.500	69.870	38.256	-4.130	74.000	31.613	PK
3		2484.112	72.354	40.740	-1.646	74.000	31.615	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 100	



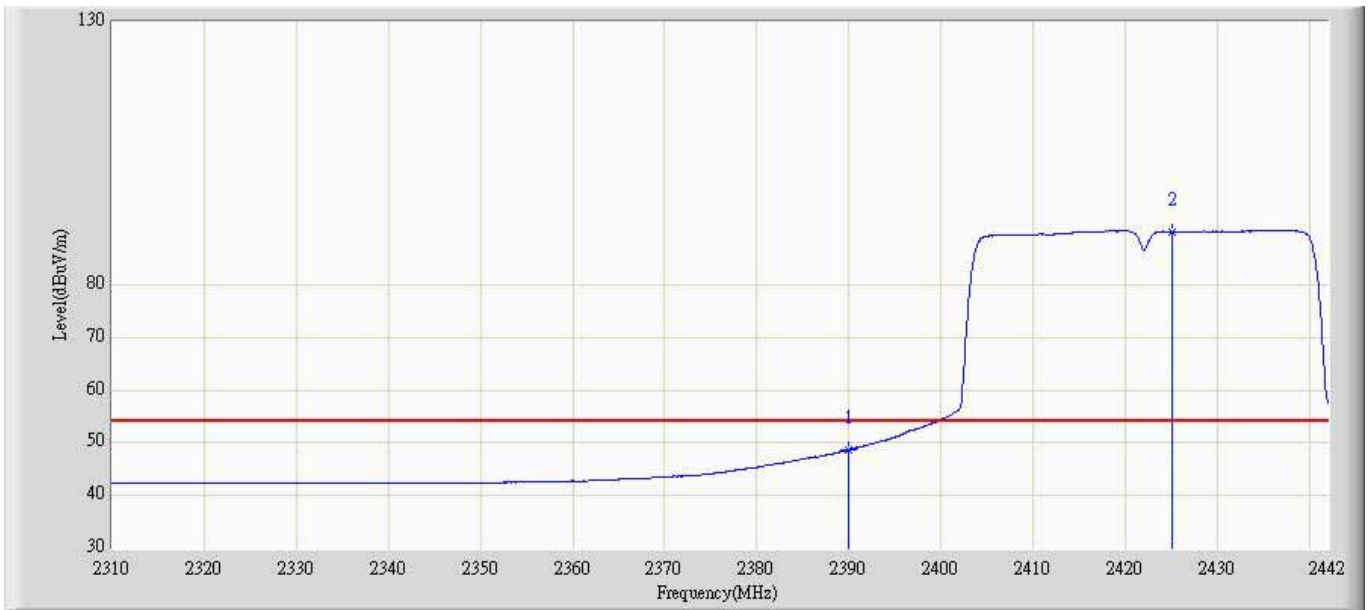
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.200	101.311	69.713	N/A	N/A	31.598	AV
2		2483.500	52.950	21.337	-1.050	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 100	



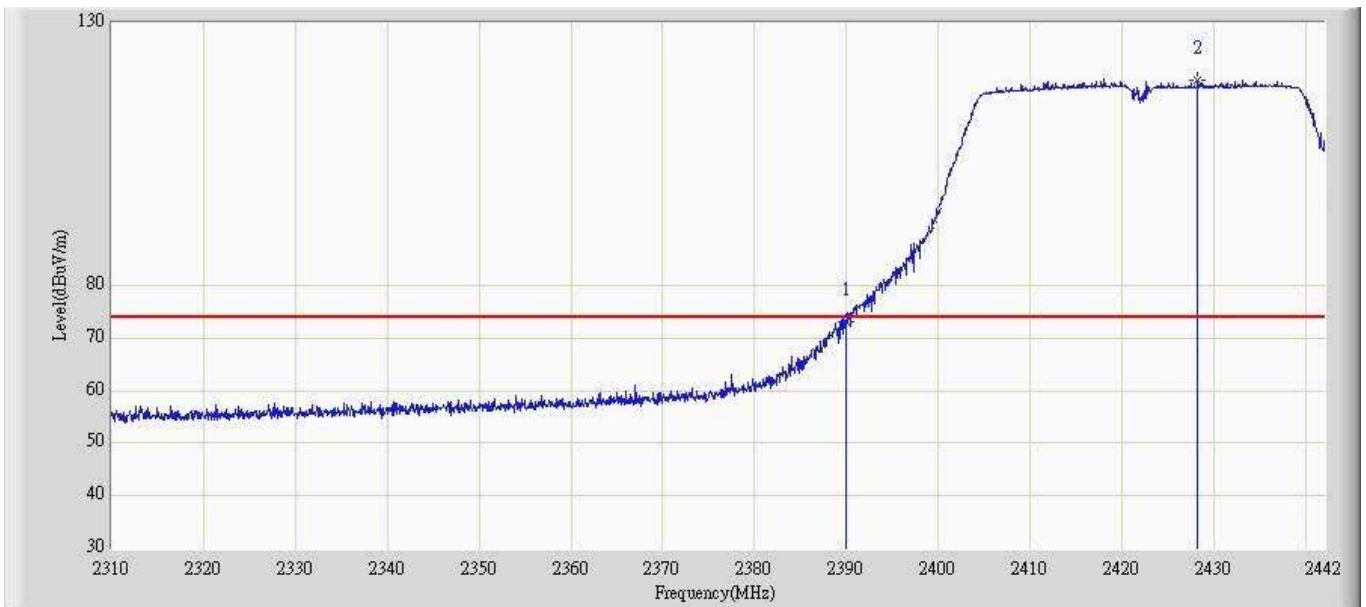
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.412	40.324	-2.588	74.000	31.088	PK
2	*	2416.656	102.654	71.381	N/A	N/A	31.273	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 15:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 100	



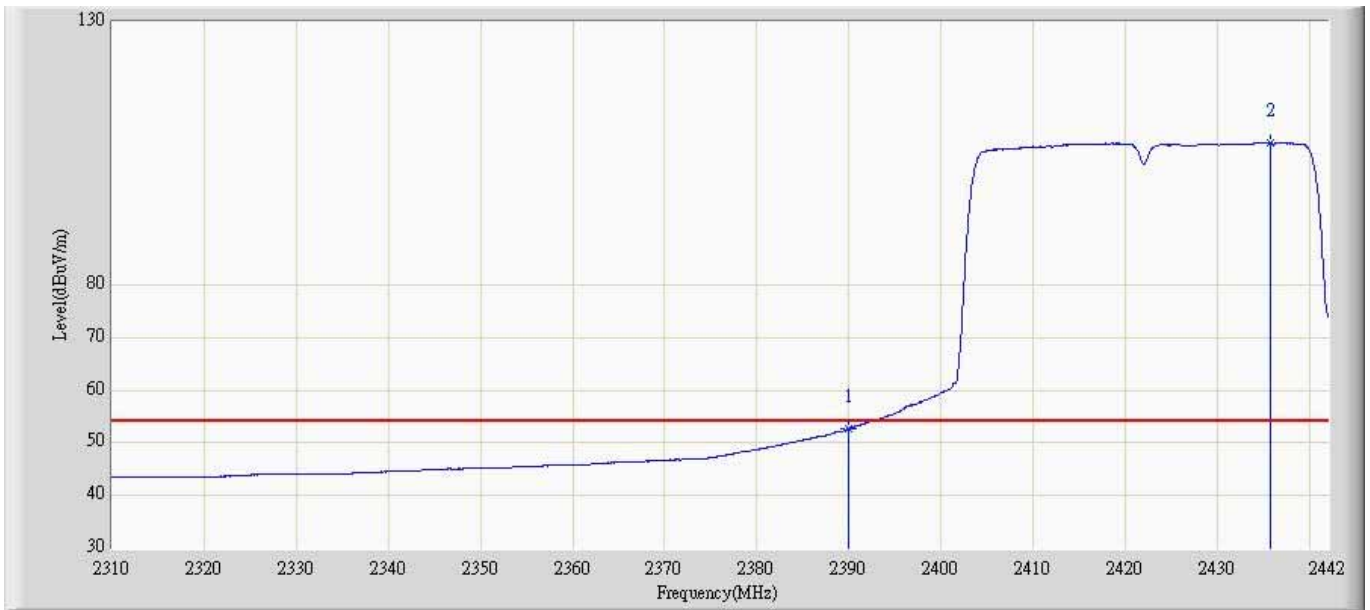
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.628	17.540	-5.372	54.000	31.088	AV
2	*	2425.170	90.105	58.754	N/A	N/A	31.351	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 100	



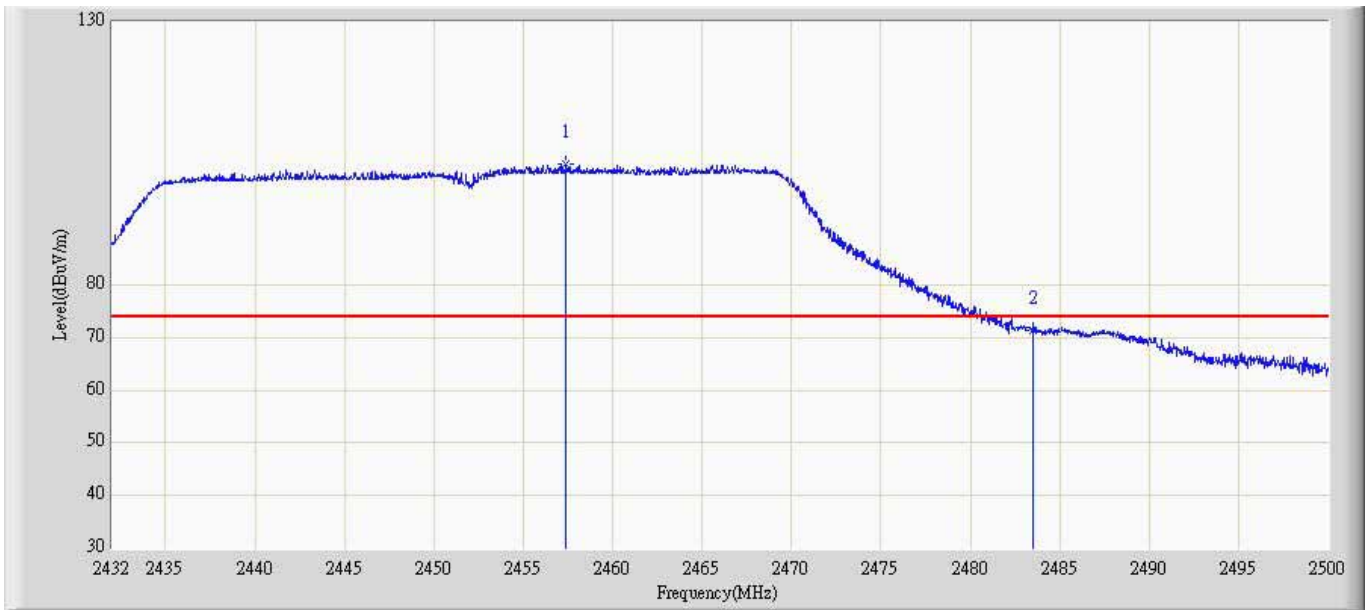
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	72.967	41.879	-1.033	74.000	31.088	PK
2	*	2428.206	119.181	87.802	N/A	N/A	31.379	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 100	



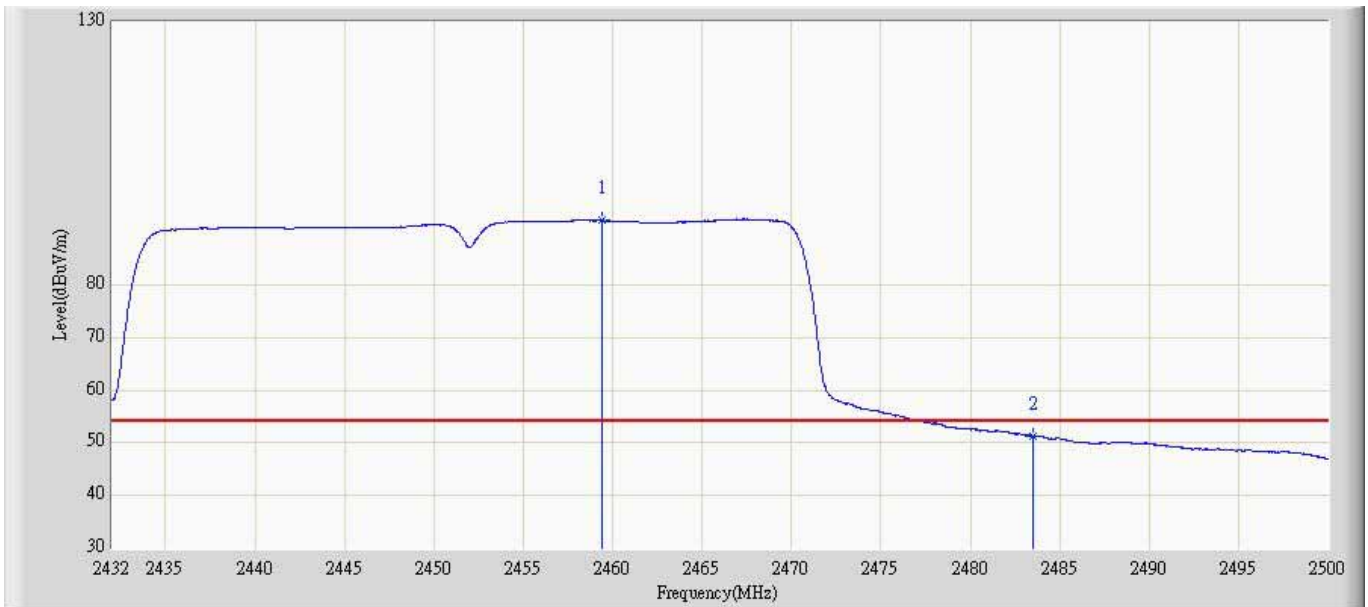
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.755	21.667	-1.245	54.000	31.088	AV
2	*	2435.730	106.936	75.488	N/A	N/A	31.449	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 100	



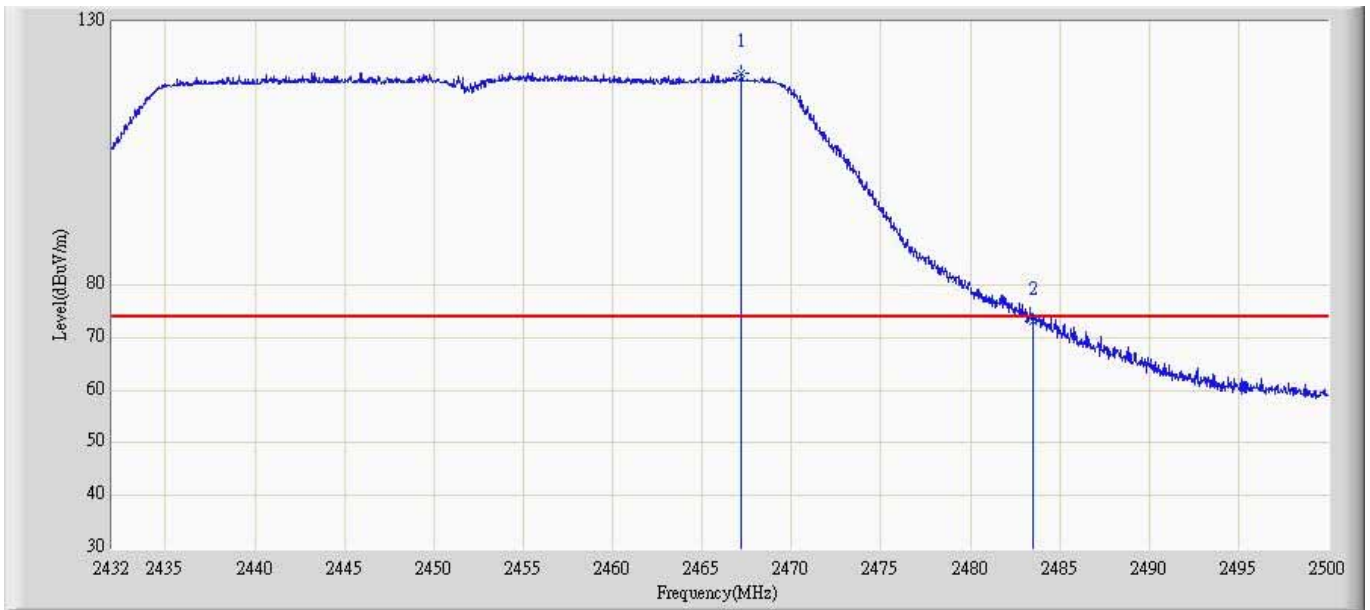
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.398	102.858	71.282	N/A	N/A	31.576	PK
2		2483.500	71.360	39.746	-2.640	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 100	



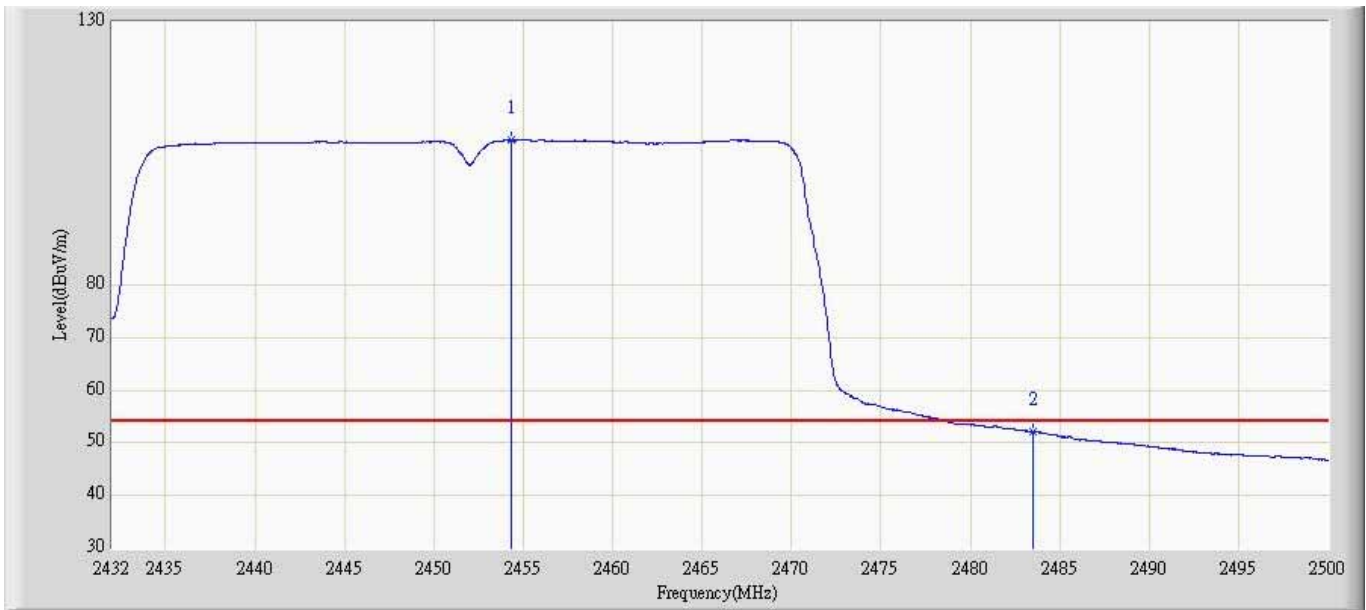
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.404	92.275	60.692	N/A	N/A	31.583	AV
2		2483.500	51.227	19.614	-2.773	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 100	



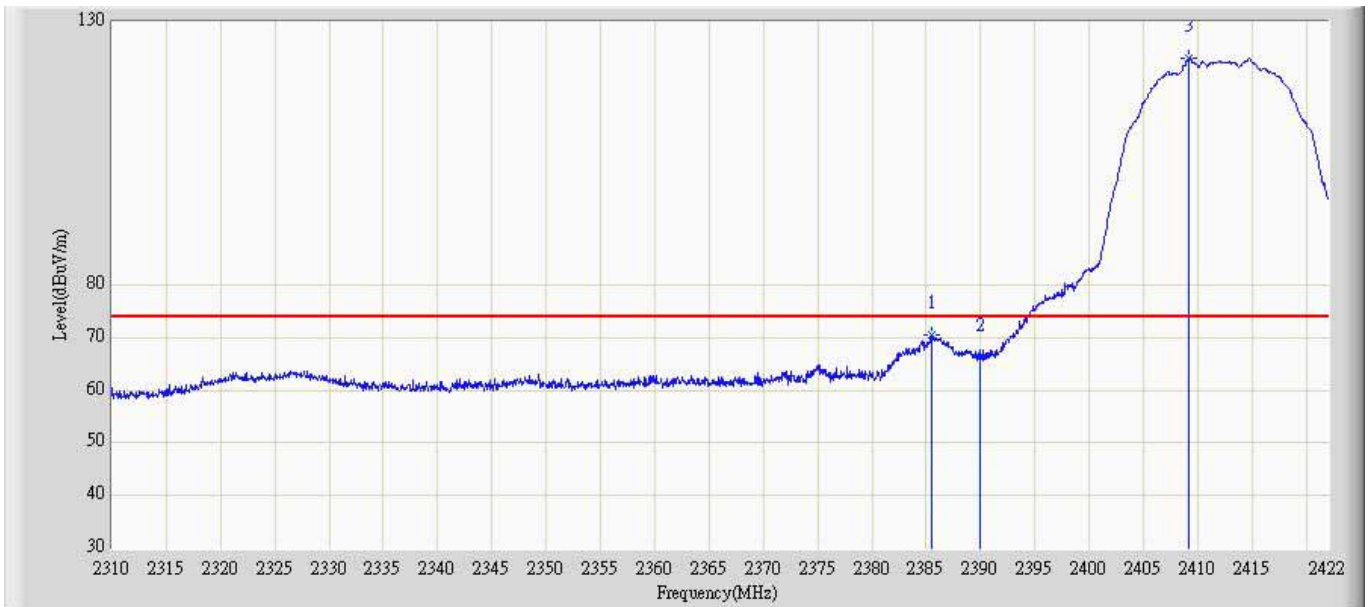
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.190	120.225	88.628	N/A	N/A	31.598	PK
2		2483.500	73.067	41.453	-0.933	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 100	



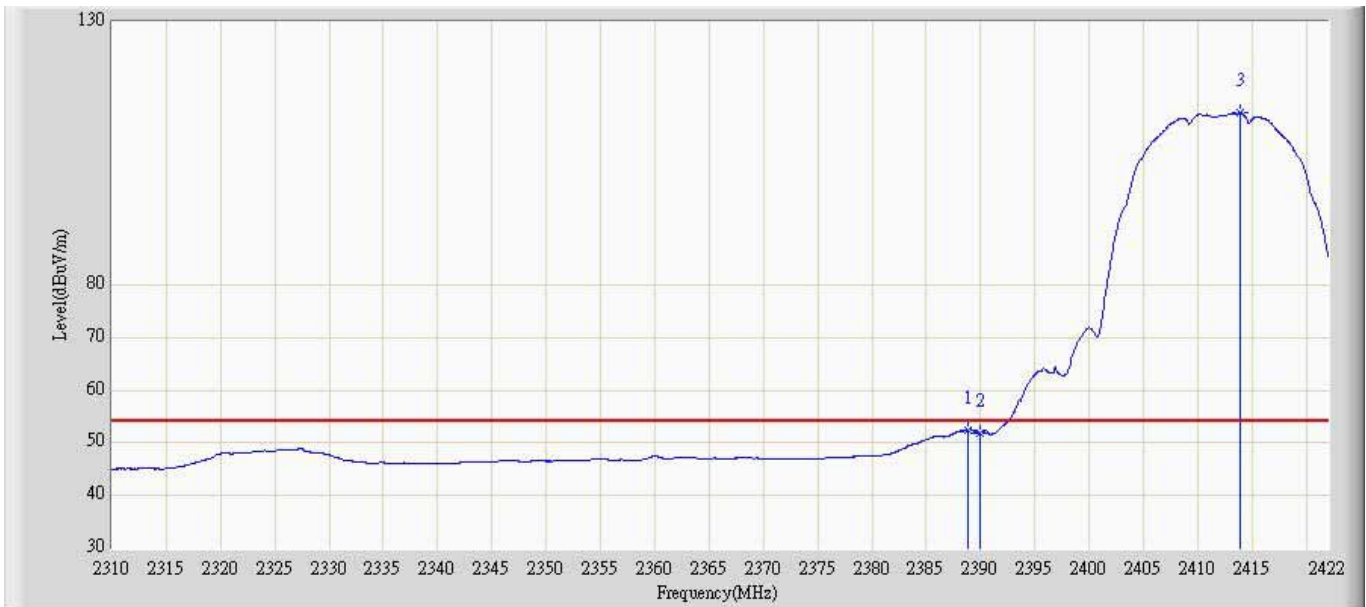
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.304	107.508	75.942	N/A	N/A	31.566	AV
2		2483.500	52.017	20.404	-1.983	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz by 802.11b Ant 010	



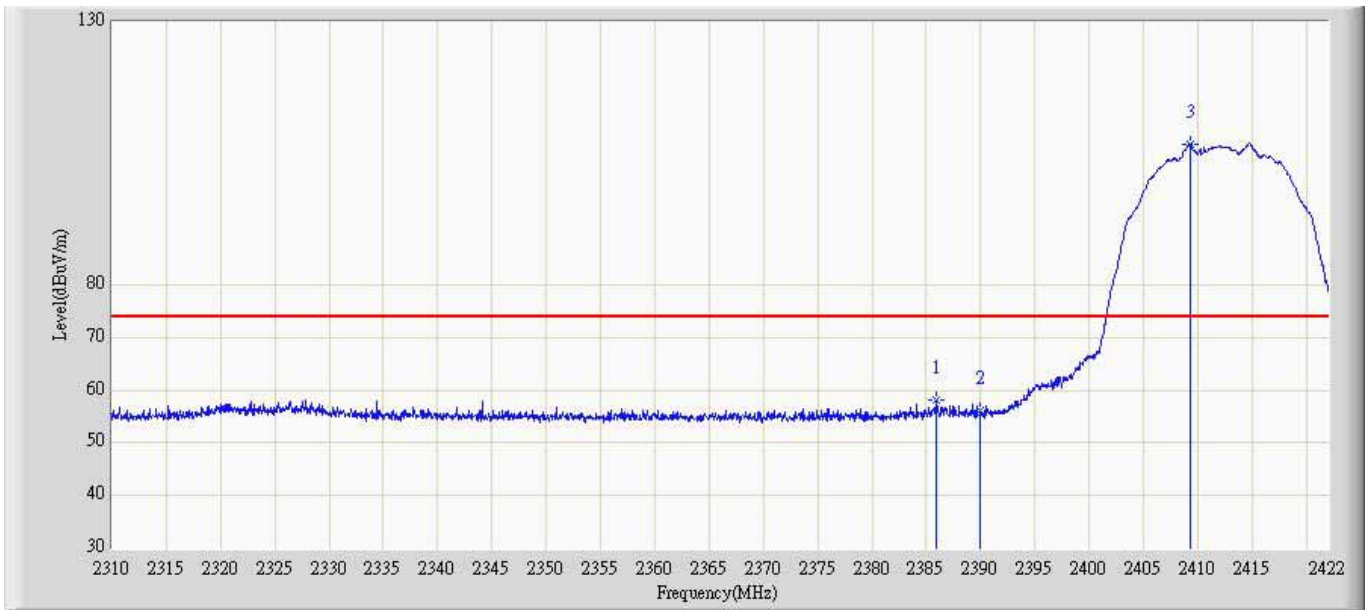
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.544	70.497	39.423	-3.503	74.000	31.074	PK
2		2390.000	66.199	35.111	-7.801	74.000	31.088	PK
3	*	2409.176	123.073	91.865	N/A	N/A	31.208	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz by 802.11b Ant 010	



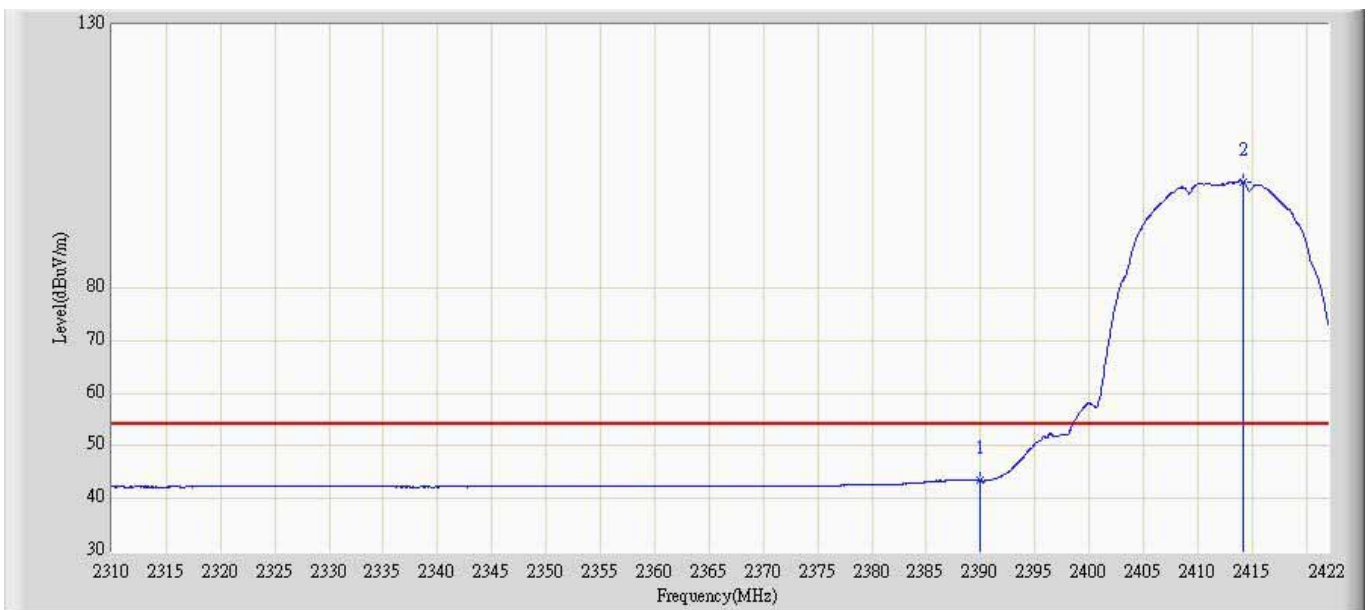
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.904	52.539	21.454	-1.461	54.000	31.085	AV
2		2390.000	51.793	20.705	-2.207	54.000	31.088	AV
3	*	2413.880	112.650	81.403	N/A	N/A	31.248	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz by 802.11b Ant 010	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.936	58.246	27.171	-15.754	74.000	31.076	PK
2		2390.000	56.162	25.074	-17.838	74.000	31.088	PK
3	*	2409.344	106.760	75.551	N/A	N/A	31.210	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz by 802.11b Ant 010	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.448	12.360	-10.552	54.000	31.088	AV
2	*	2414.216	100.182	68.931	N/A	N/A	31.250	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz by 802.11b Ant 010	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2459.272	123.168	91.585	N/A	N/A	31.583	PK
2		2483.500	64.294	32.680	-9.706	74.000	31.613	PK
3		2488.600	67.514	35.895	-6.486	74.000	31.619	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz by 802.11b Ant 010	



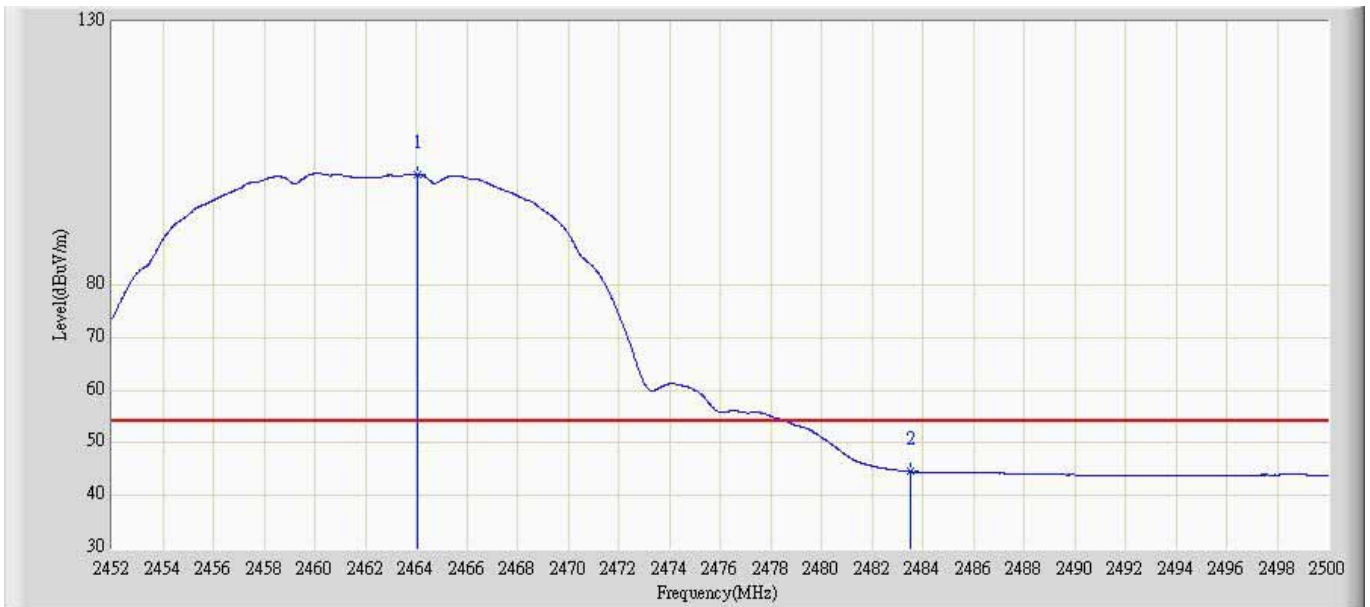
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.160	116.506	84.920	N/A	N/A	31.586	AV
2		2483.500	53.330	21.717	-0.670	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz by 802.11b Ant 010	



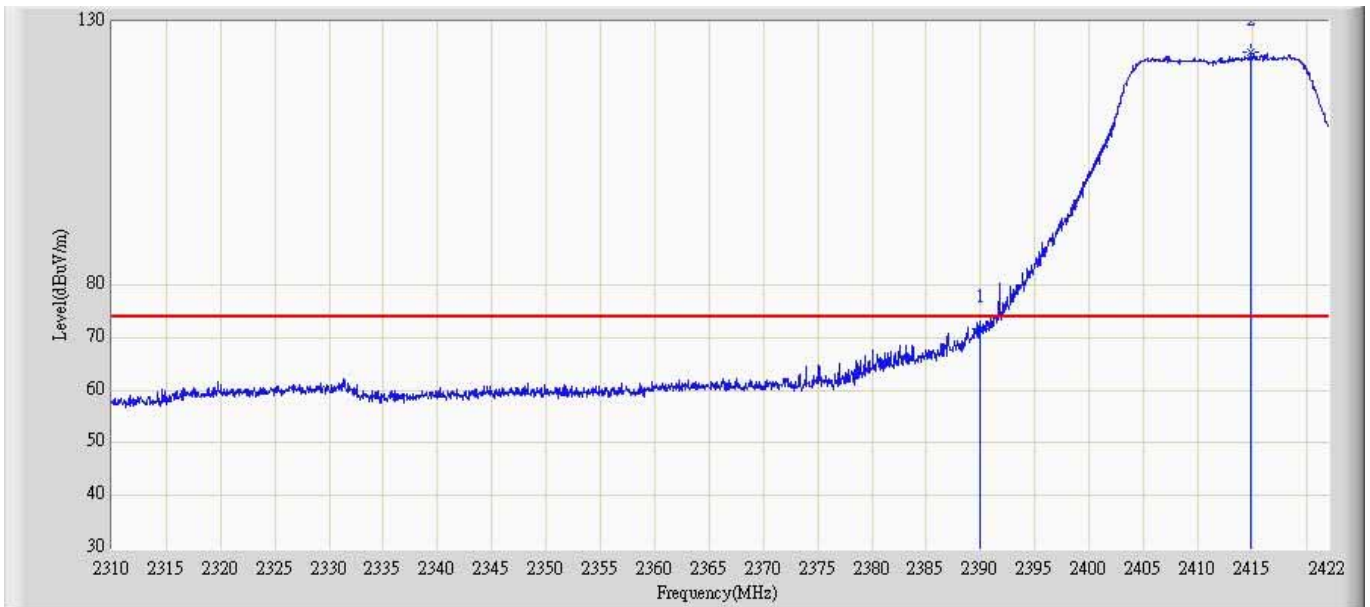
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.448	107.238	75.651	N/A	N/A	31.587	PK
2		2483.500	56.753	25.140	-17.247	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz by 802.11b Ant 010	



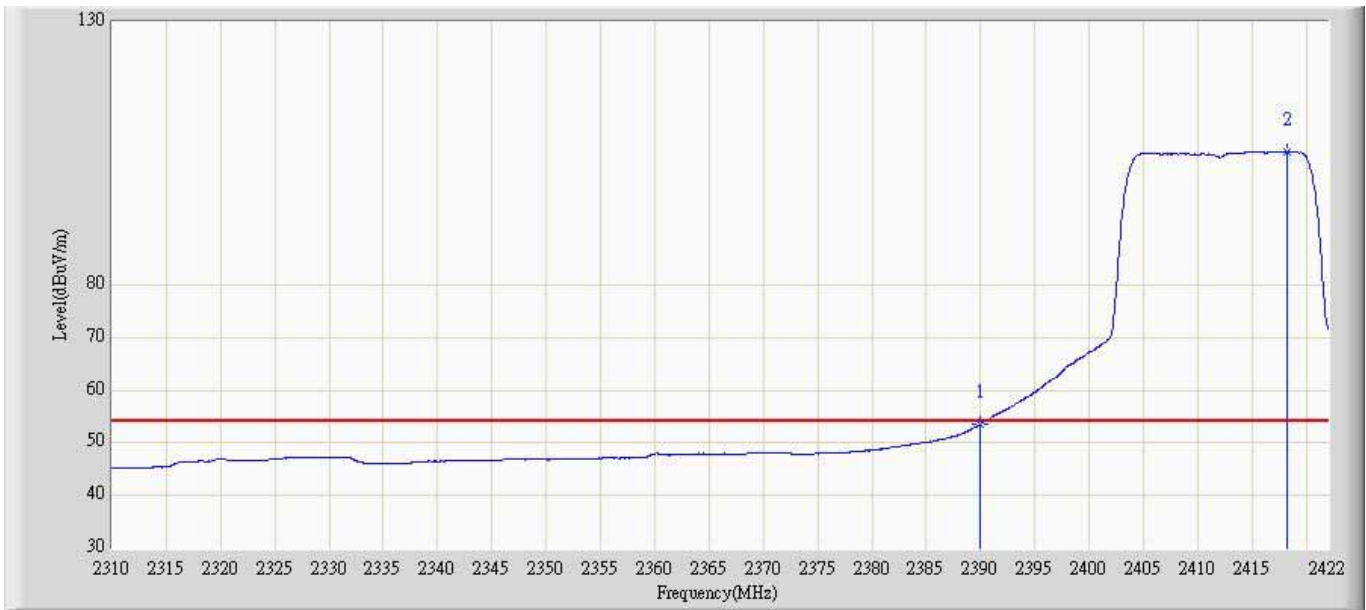
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.072	101.004	69.410	N/A	N/A	31.594	AV
2		2483.500	44.544	12.930	-9.456	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz by 802.11g Ant 010	



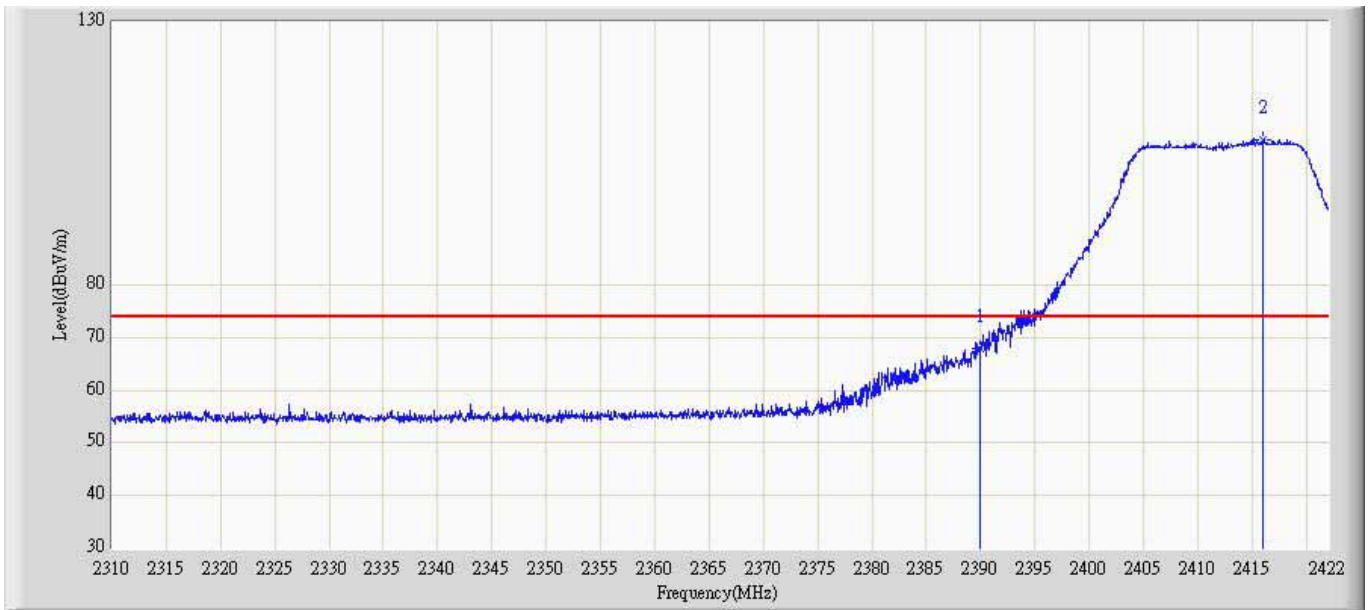
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.704	40.616	-2.296	74.000	31.088	PK
2	*	2414.832	124.235	92.979	N/A	N/A	31.256	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz by 802.11g Ant 010	



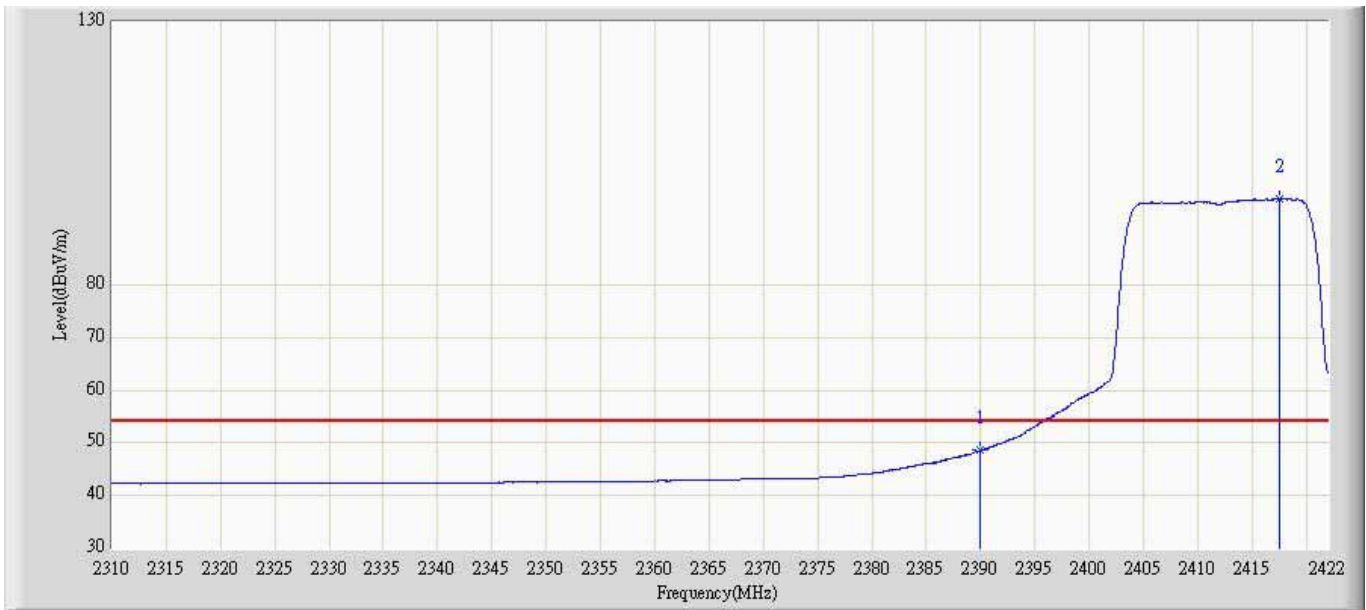
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.659	22.571	-0.341	54.000	31.088	AV
2	*	2418.248	105.372	74.084	N/A	N/A	31.287	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz by 802.11g Ant 010	



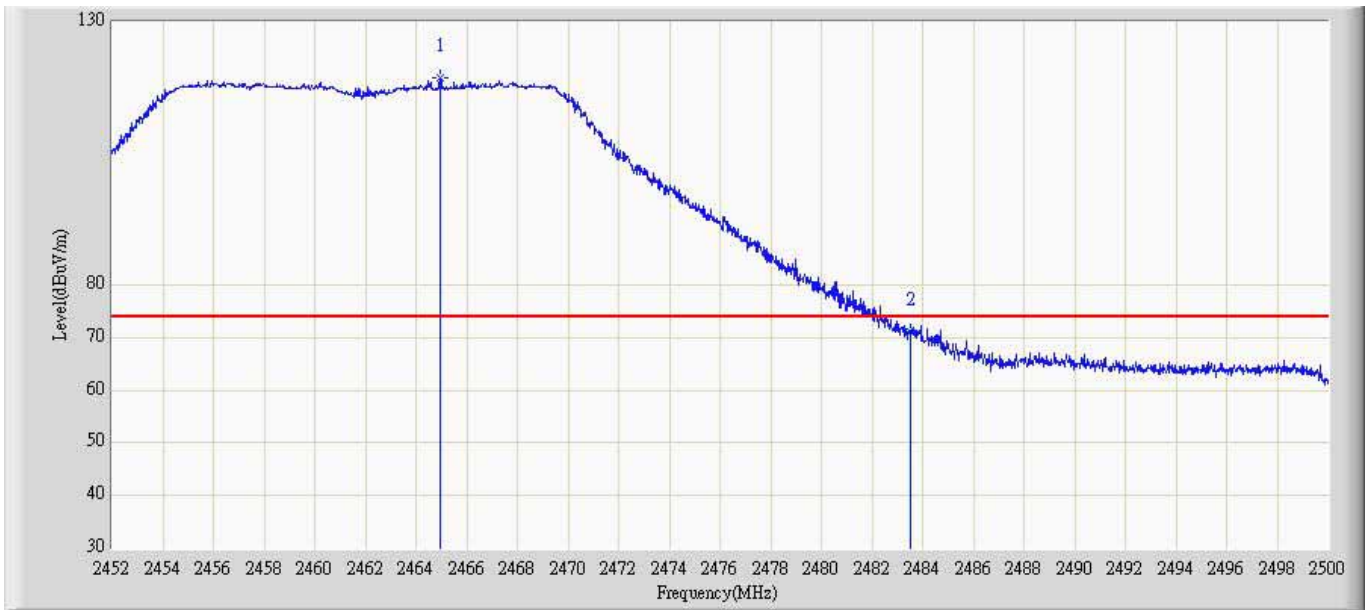
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.871	36.783	-6.129	74.000	31.088	PK
2	*	2416.008	107.593	76.326	N/A	N/A	31.267	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz by 802.11g Ant 010	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.582	17.494	-5.418	54.000	31.088	AV
2	*	2417.576	96.360	65.079	N/A	N/A	31.282	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz by 802.11g Ant 010	



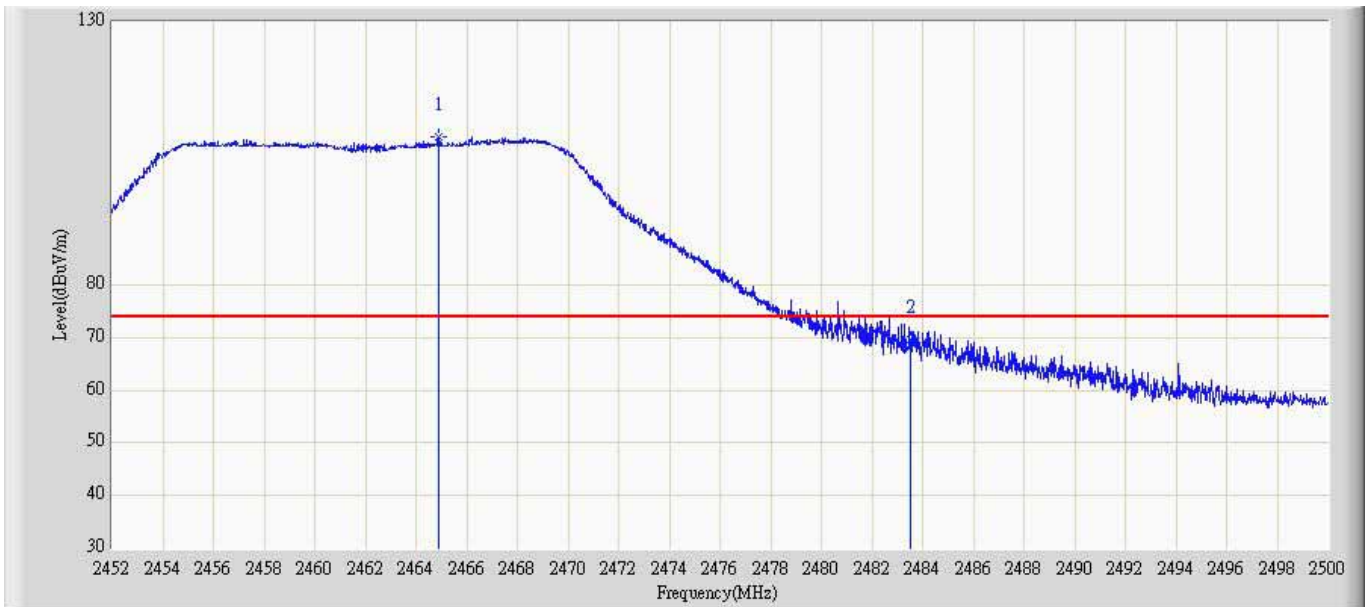
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.936	119.413	87.818	N/A	N/A	31.595	PK
2		2483.500	71.078	39.464	-2.922	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz by 802.11g Ant 010	



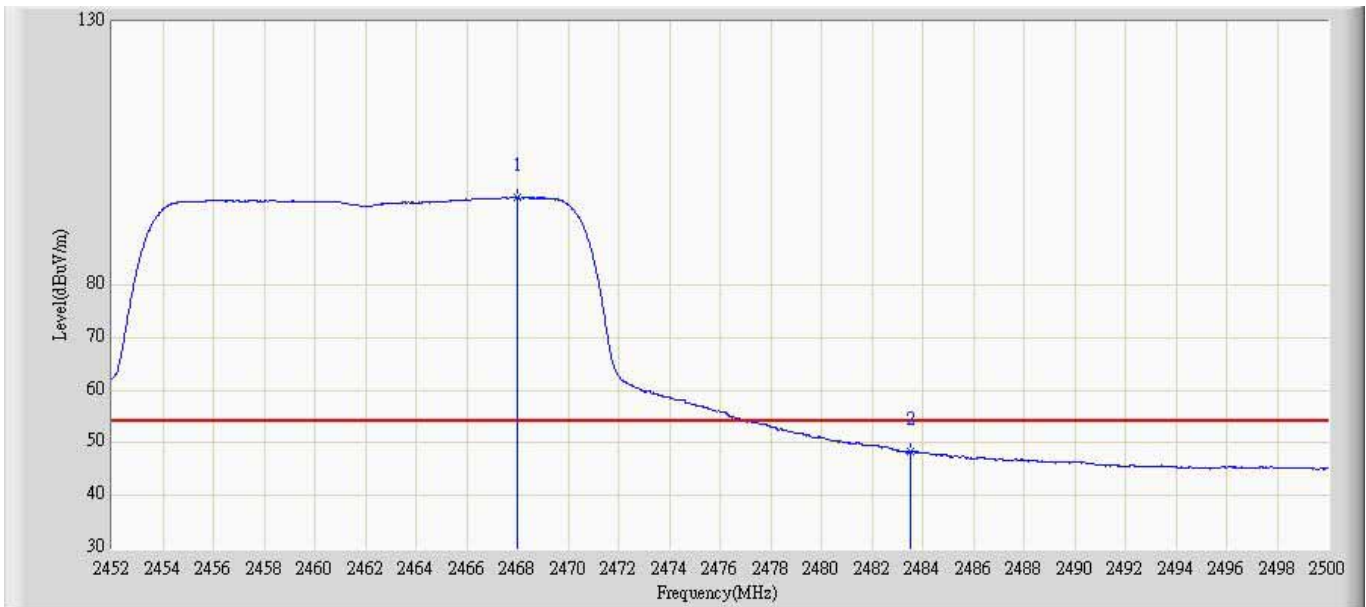
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.696	106.868	75.298	N/A	N/A	31.571	AV
2		2483.500	53.684	22.071	-0.316	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz by 802.11g Ant 010	



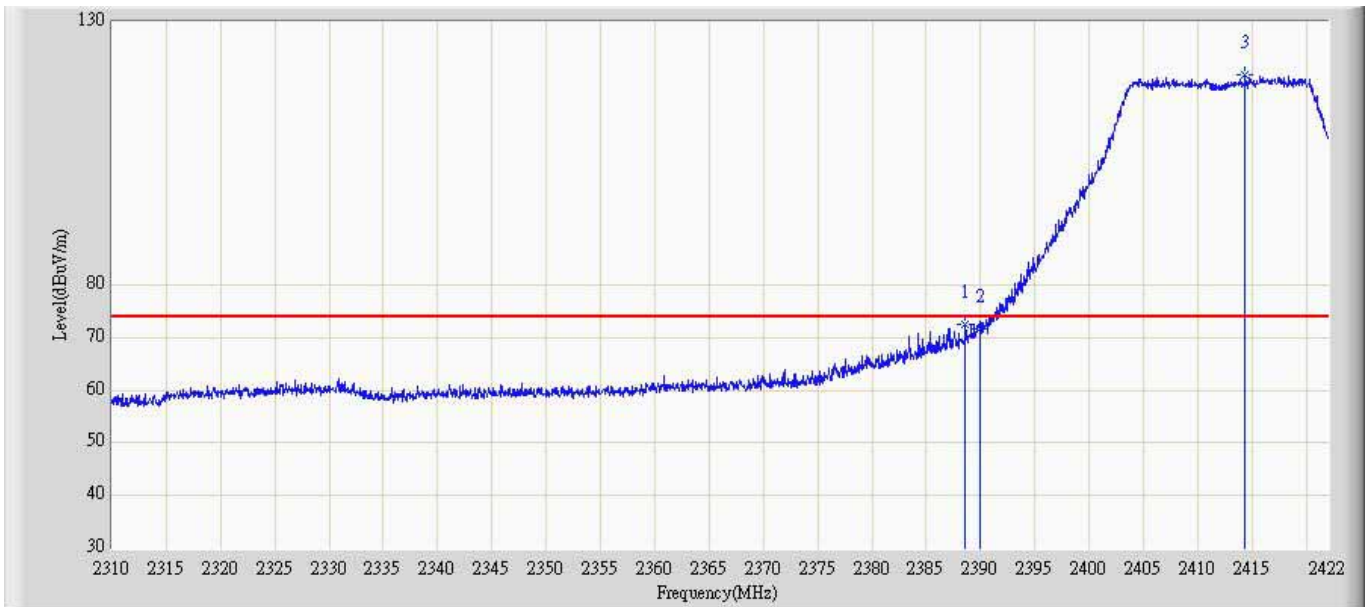
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.888	108.258	76.663	N/A	N/A	31.595	PK
2		2483.500	69.651	38.038	-4.349	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz by 802.11g Ant 010	



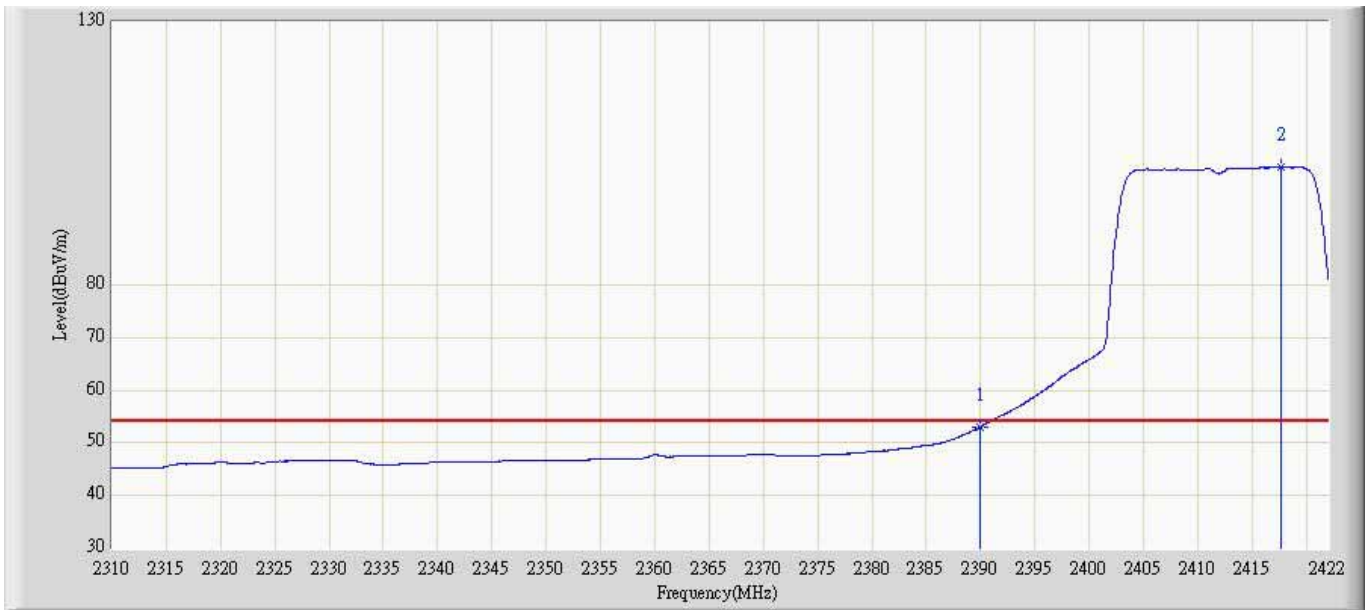
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.984	96.653	65.055	N/A	N/A	31.598	AV
2		2483.500	48.277	16.664	-5.723	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 16:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n20MHz Ant 010	



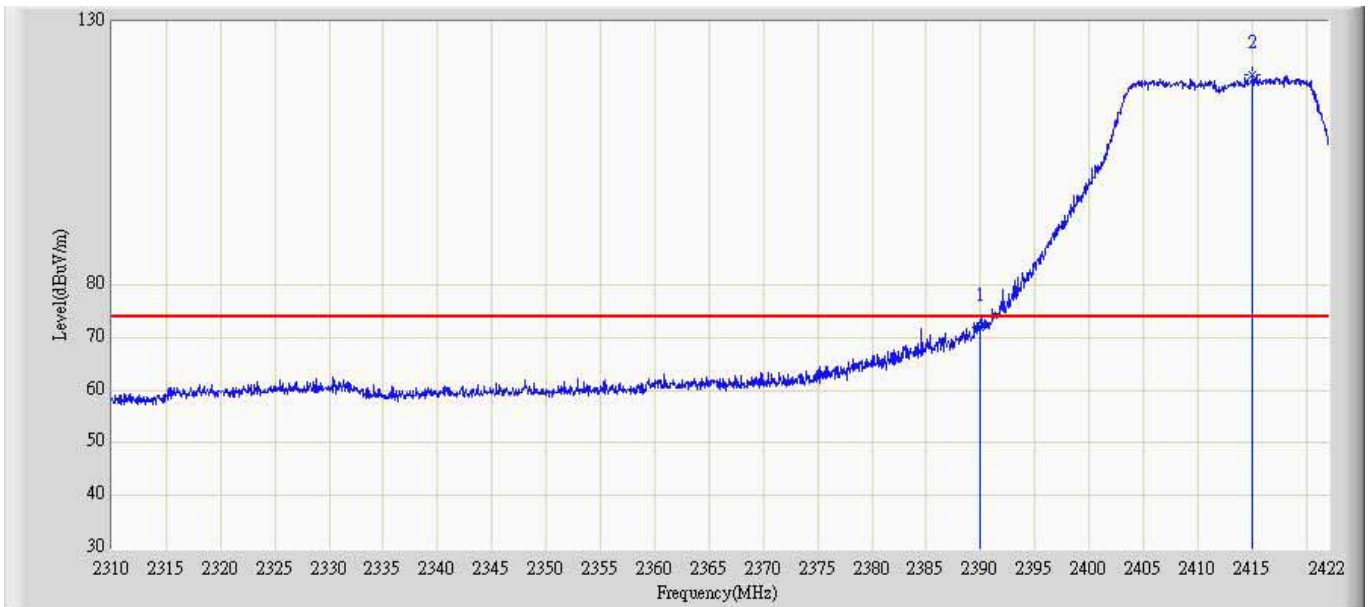
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2388.624	72.518	41.434	-1.482	74.000	31.084	PK
2		2390.000	71.615	40.527	-2.385	74.000	31.088	PK
3	*	2414.384	119.815	88.563	N/A	N/A	31.252	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n20MHz Ant 010	



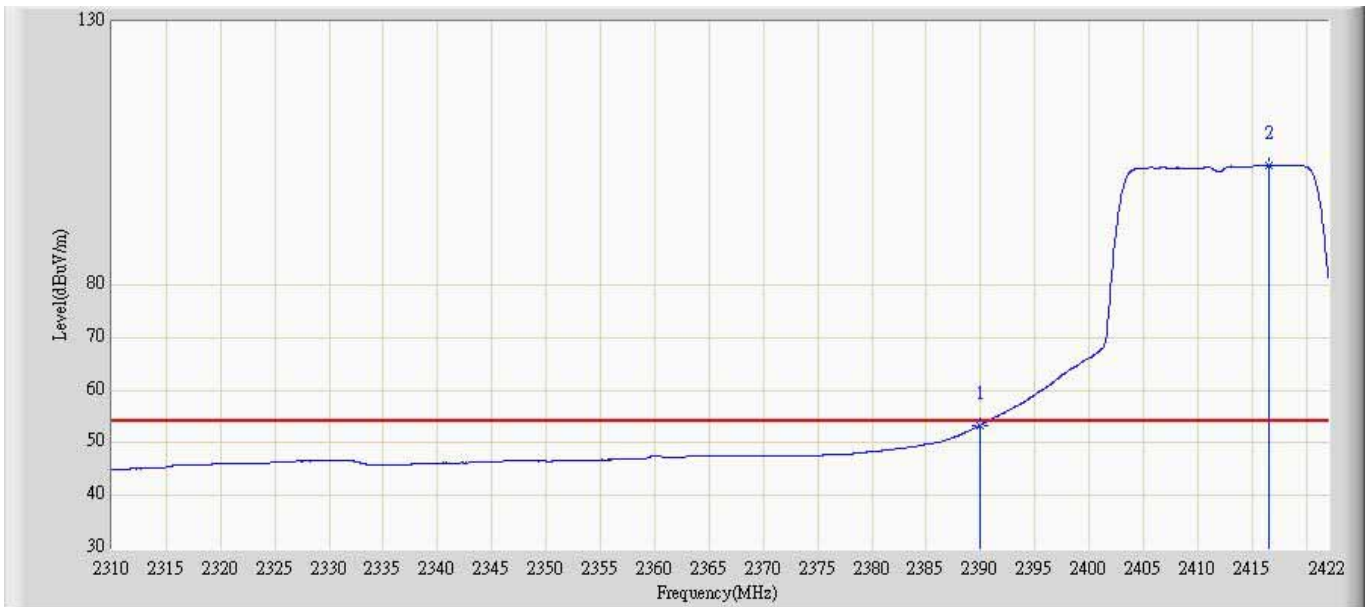
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.021	21.933	-0.979	54.000	31.088	AV
2	*	2417.744	102.333	71.050	N/A	N/A	31.282	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n20MHz Ant 010	



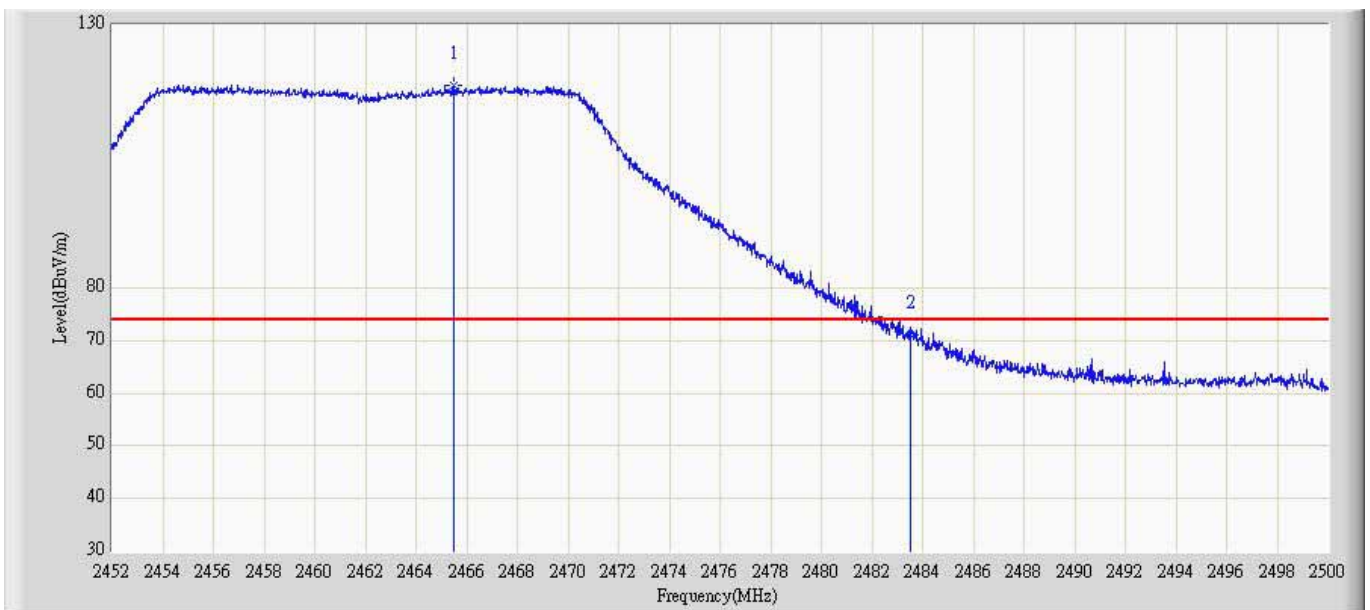
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.884	40.796	-2.116	74.000	31.088	PK
2	*	2415.056	120.038	88.780	N/A	N/A	31.258	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n20MHz Ant 010	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.356	22.268	-0.644	54.000	31.088	AV
2	*	2416.512	102.601	71.329	N/A	N/A	31.272	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 010	



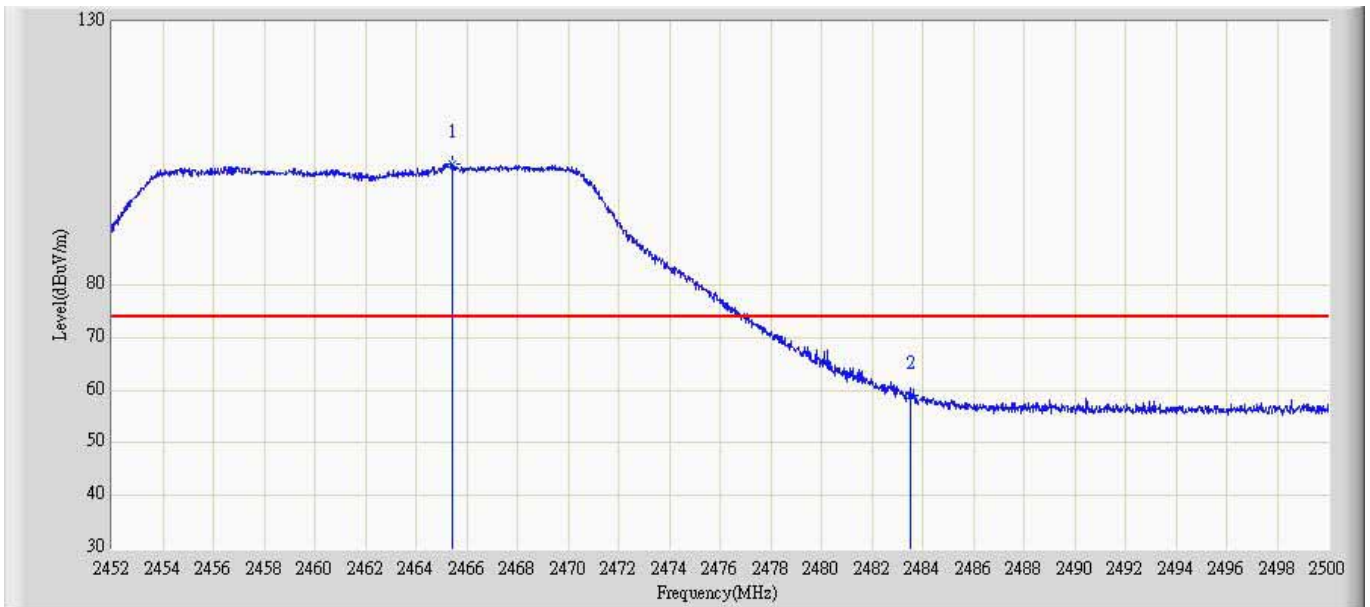
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.464	118.513	86.918	N/A	N/A	31.595	PK
2		2483.500	71.006	39.392	-2.994	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 010	



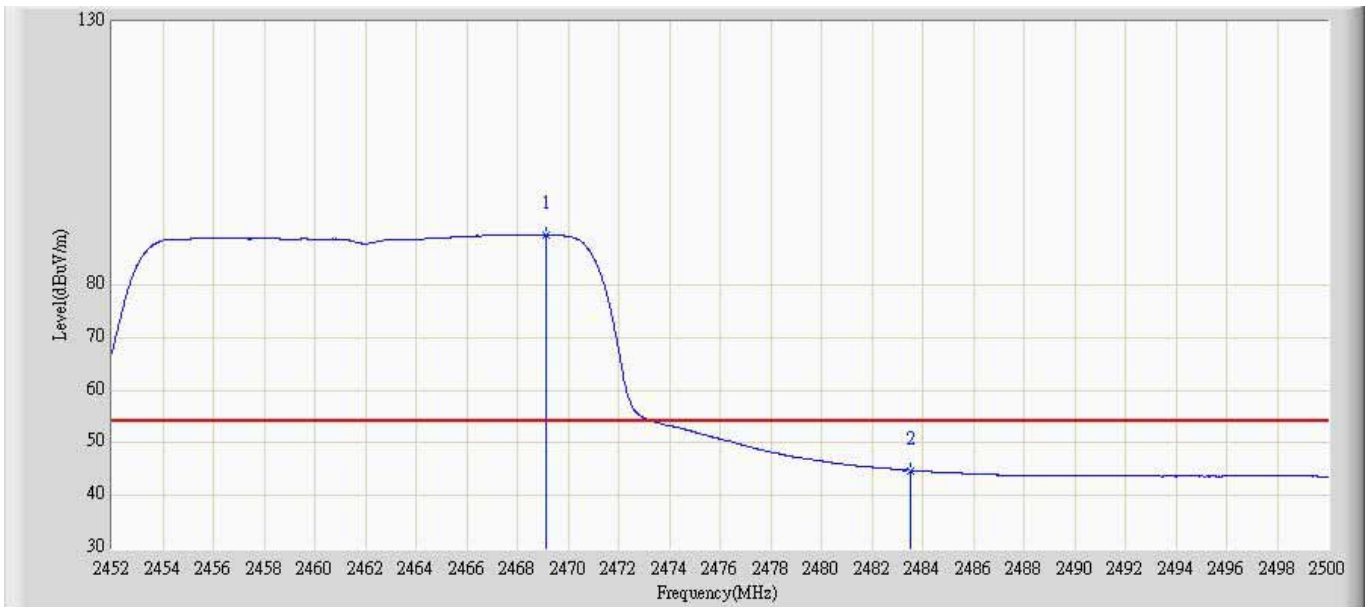
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.288	103.727	72.158	N/A	N/A	31.569	AV
2		2483.500	53.205	21.591	-0.795	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 010	



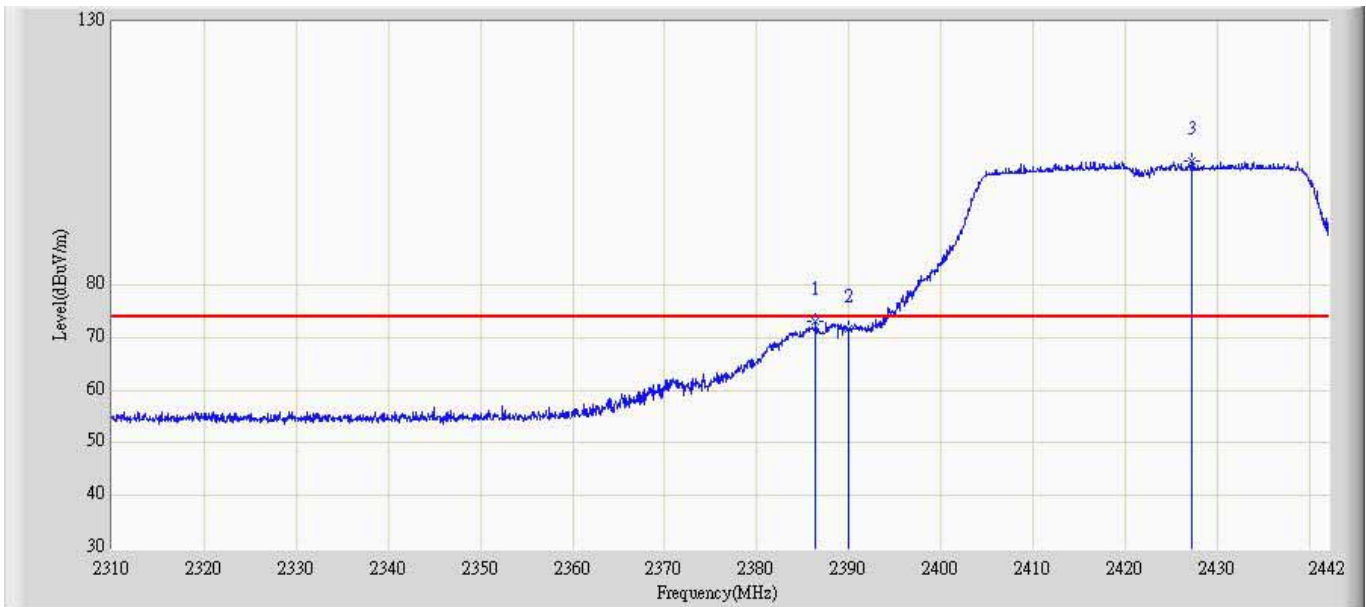
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.416	102.881	71.286	N/A	N/A	31.596	PK
2		2483.500	59.044	27.431	-14.956	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n20MHz Ant 010	



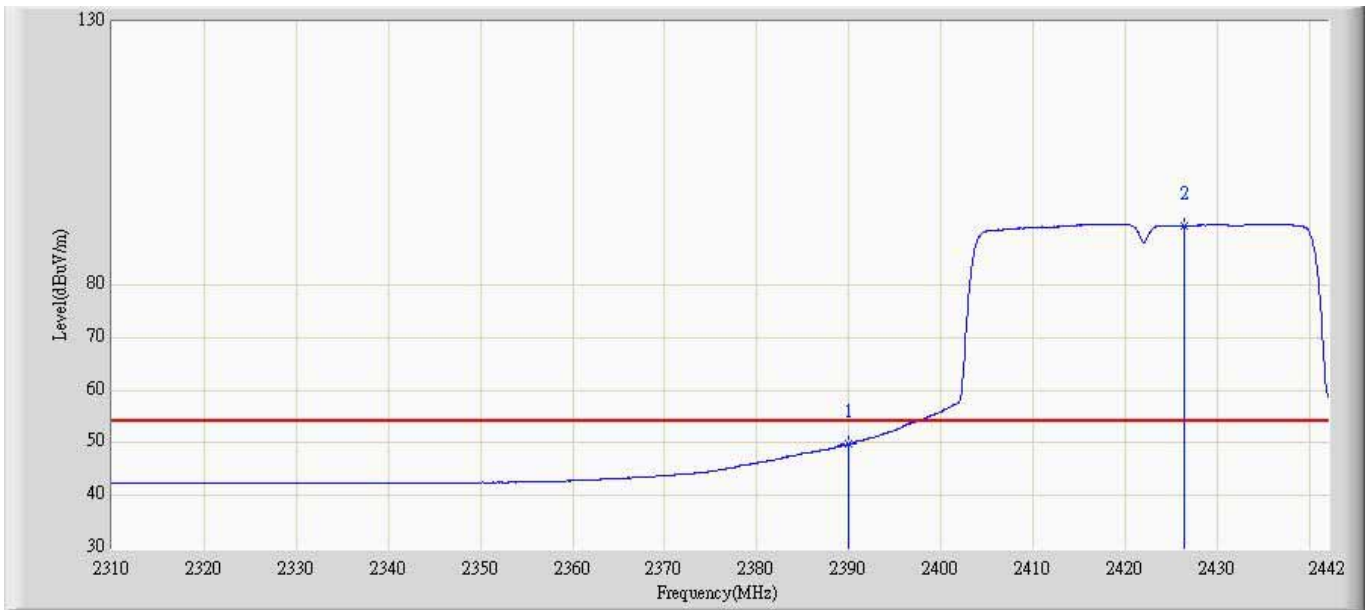
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2469.112	89.563	57.964	N/A	N/A	31.599	AV
2		2483.500	44.797	13.183	-9.203	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 010	



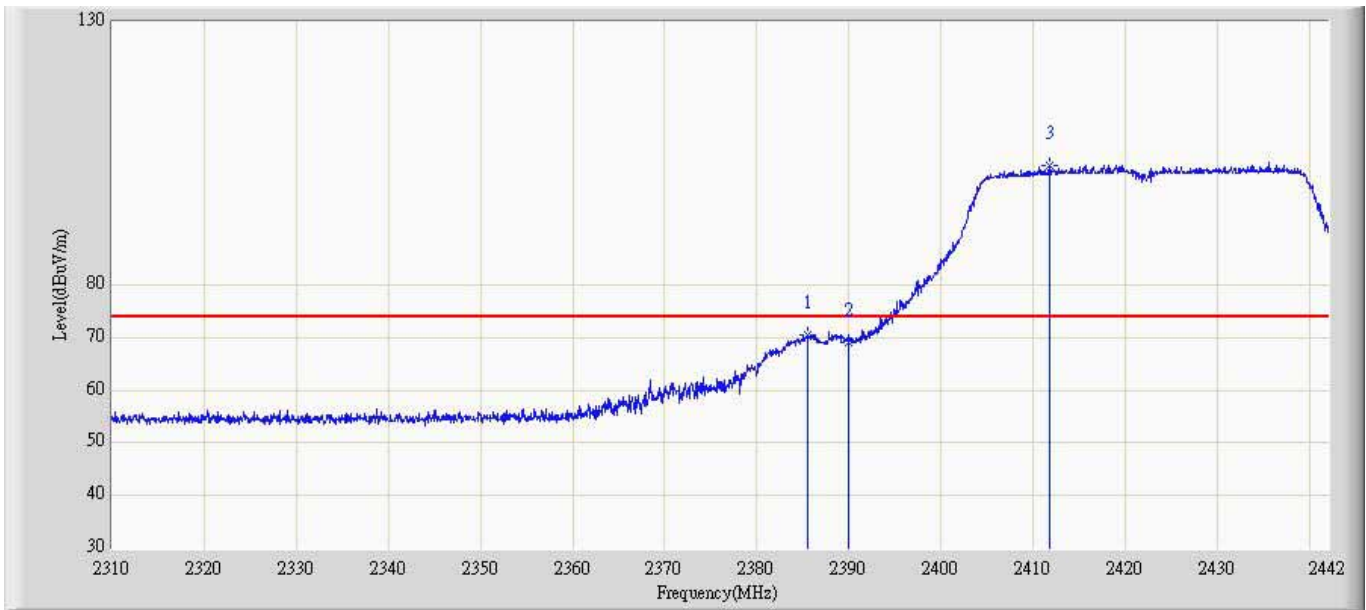
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2386.362	73.113	42.036	-0.887	74.000	31.076	PK
2		2390.000	71.584	40.496	-2.416	74.000	31.088	PK
3	*	2427.282	103.568	72.198	N/A	N/A	31.370	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 010	



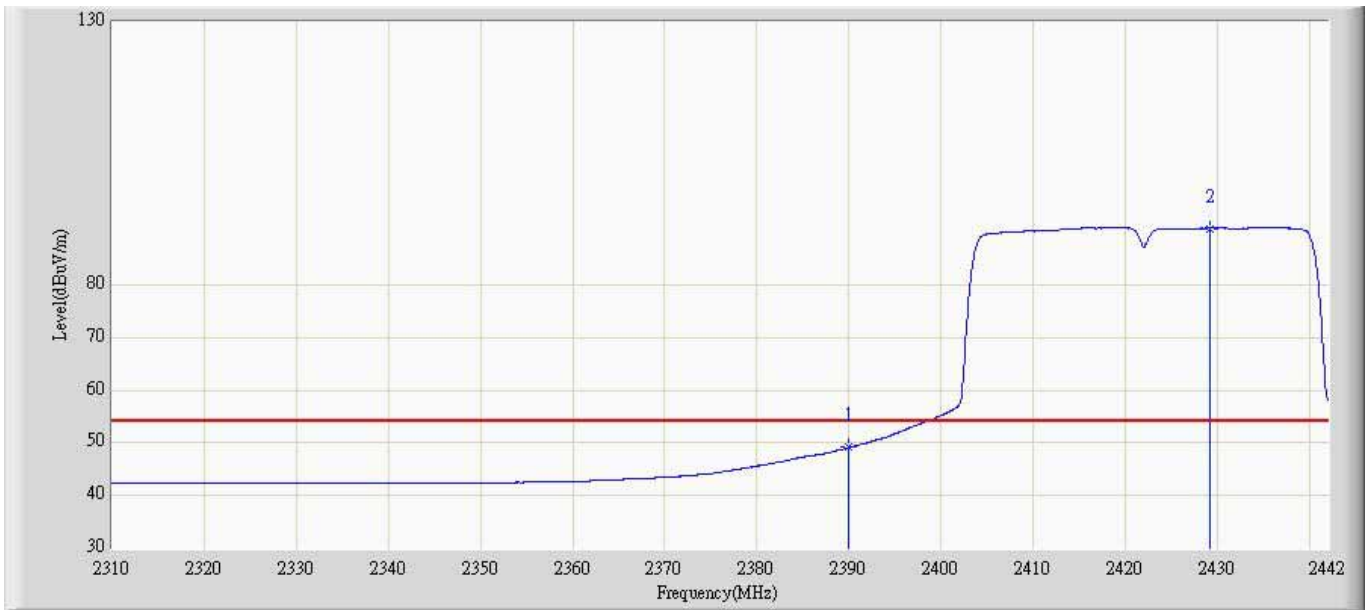
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.776	18.688	-4.224	54.000	31.088	AV
2	*	2426.358	91.339	59.977	N/A	N/A	31.362	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 010	



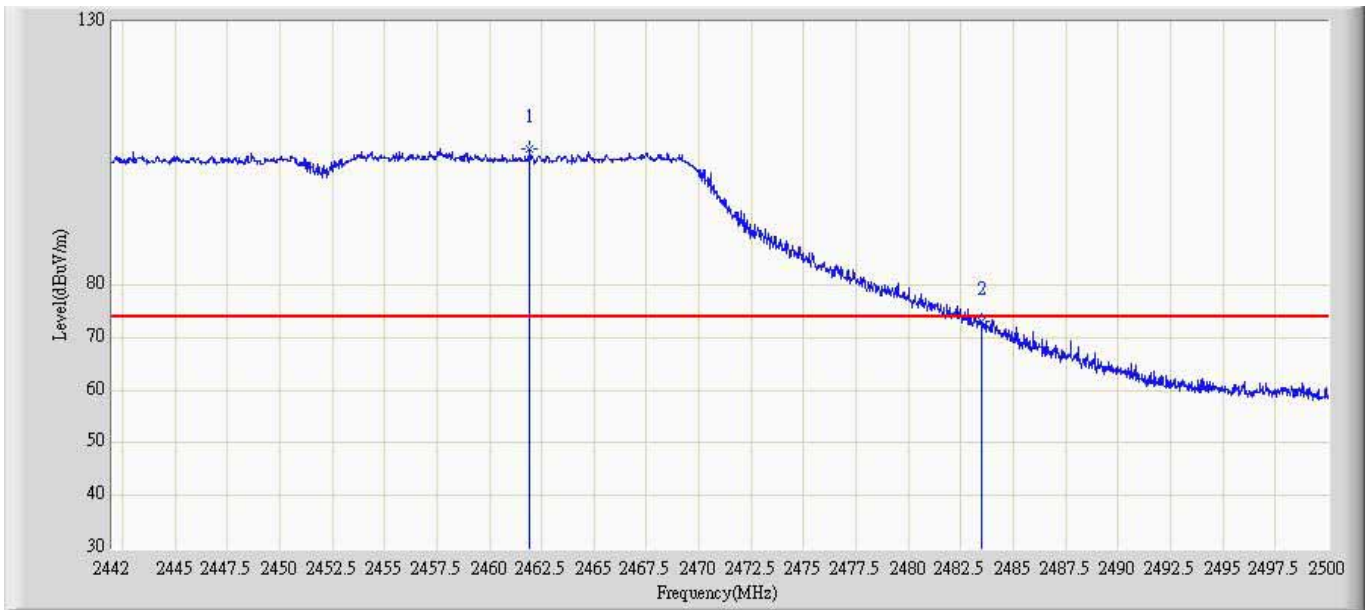
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2385.504	70.654	39.580	-3.346	74.000	31.074	PK
2		2390.000	69.196	38.108	-4.804	74.000	31.088	PK
3	*	2411.772	102.696	71.468	N/A	N/A	31.228	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n40MHz Ant 010	



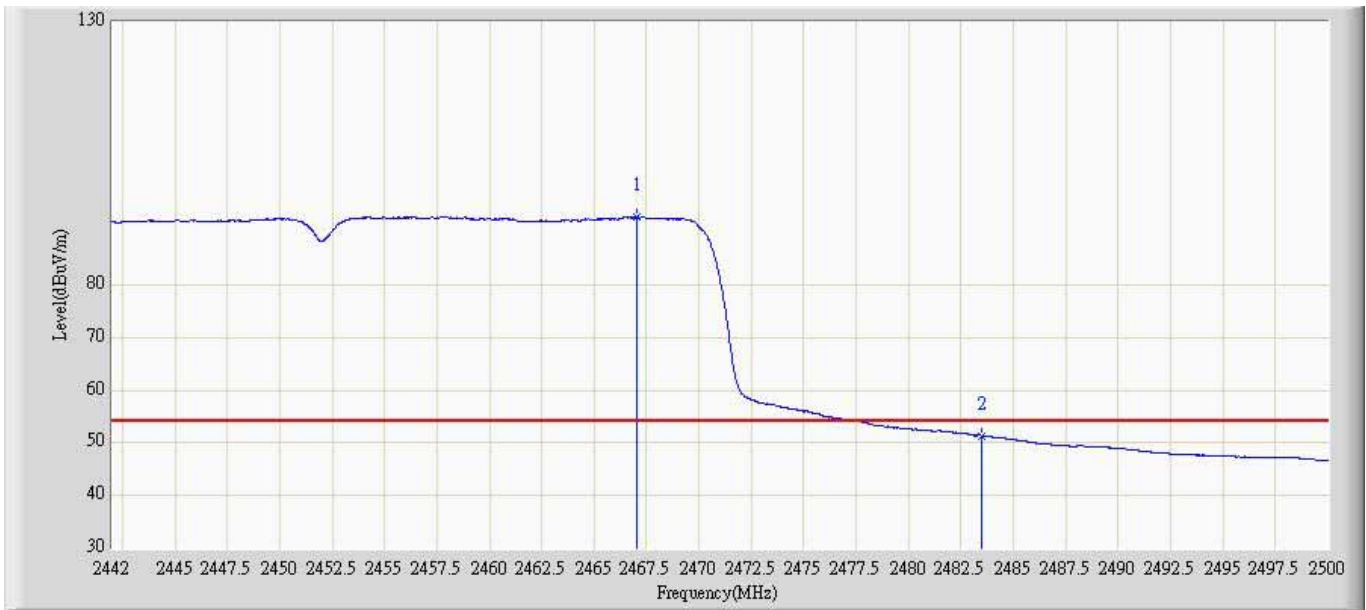
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.119	18.031	-4.881	54.000	31.088	AV
2	*	2429.130	90.763	59.376	N/A	N/A	31.387	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 17:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 010	



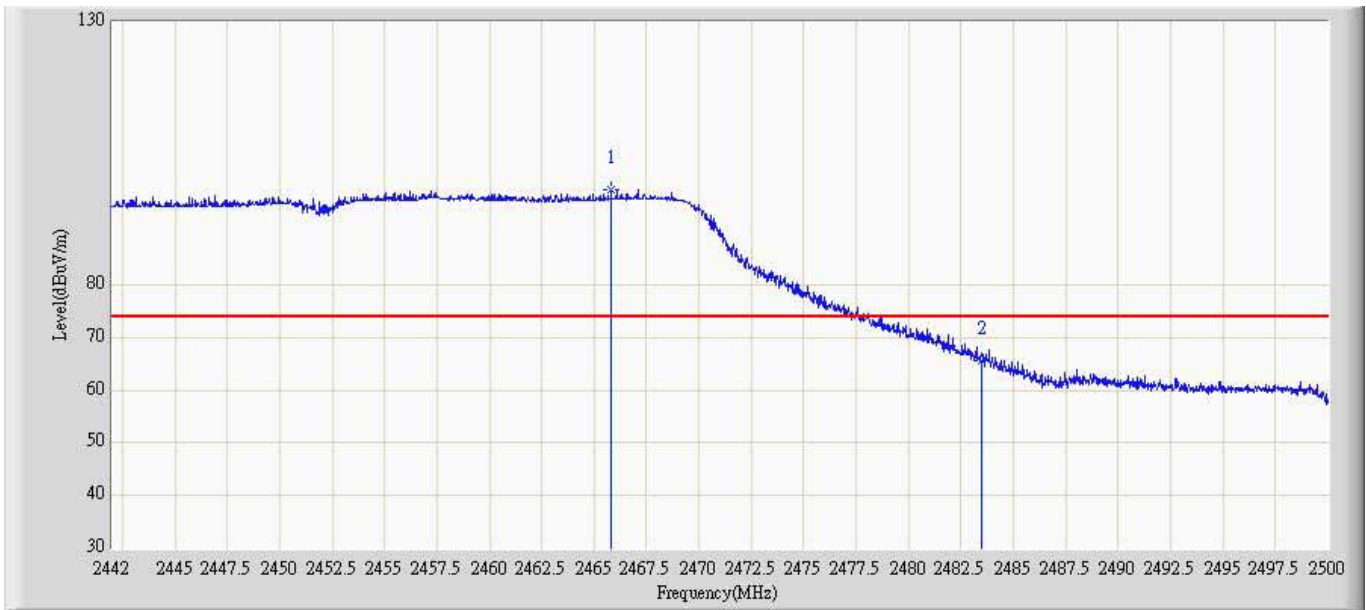
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.923	105.955	74.363	N/A	N/A	31.592	PK
2		2483.500	73.043	41.429	-0.957	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 010	



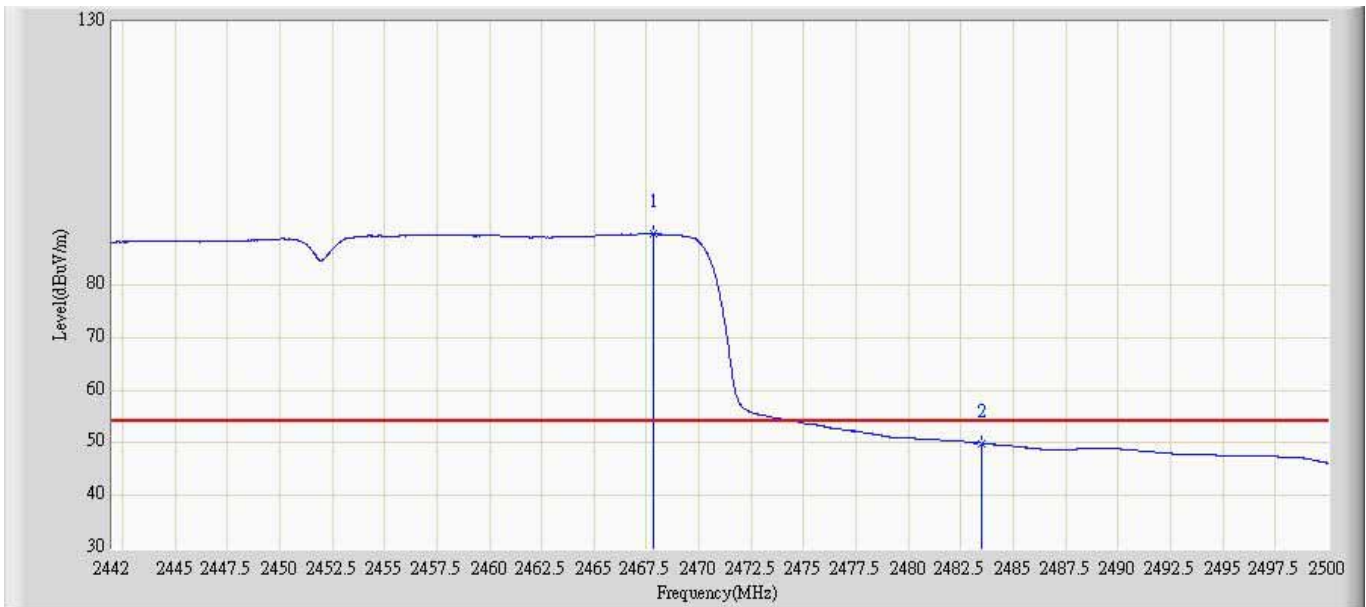
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.027	92.916	61.319	N/A	N/A	31.597	AV
2		2483.500	51.342	19.729	-2.658	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 010	



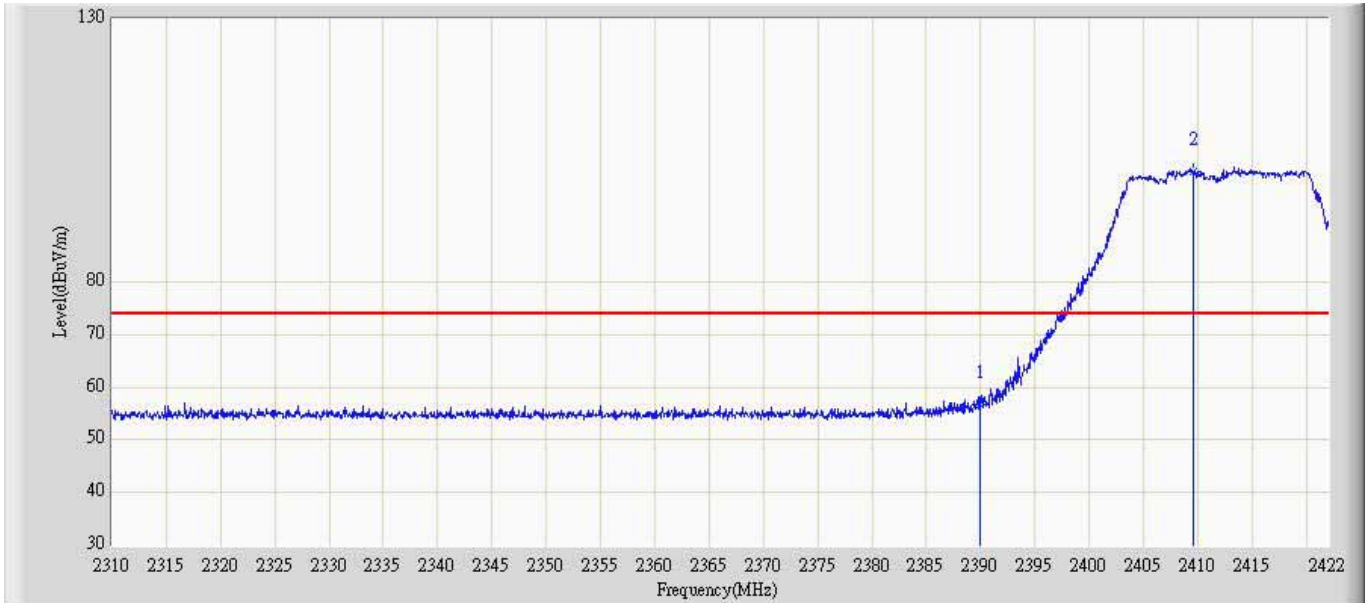
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2465.809	98.059	66.463	N/A	N/A	31.595	PK
2		2483.500	65.564	33.950	-8.436	74.000	31.613	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/04 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n40MHz Ant 010	



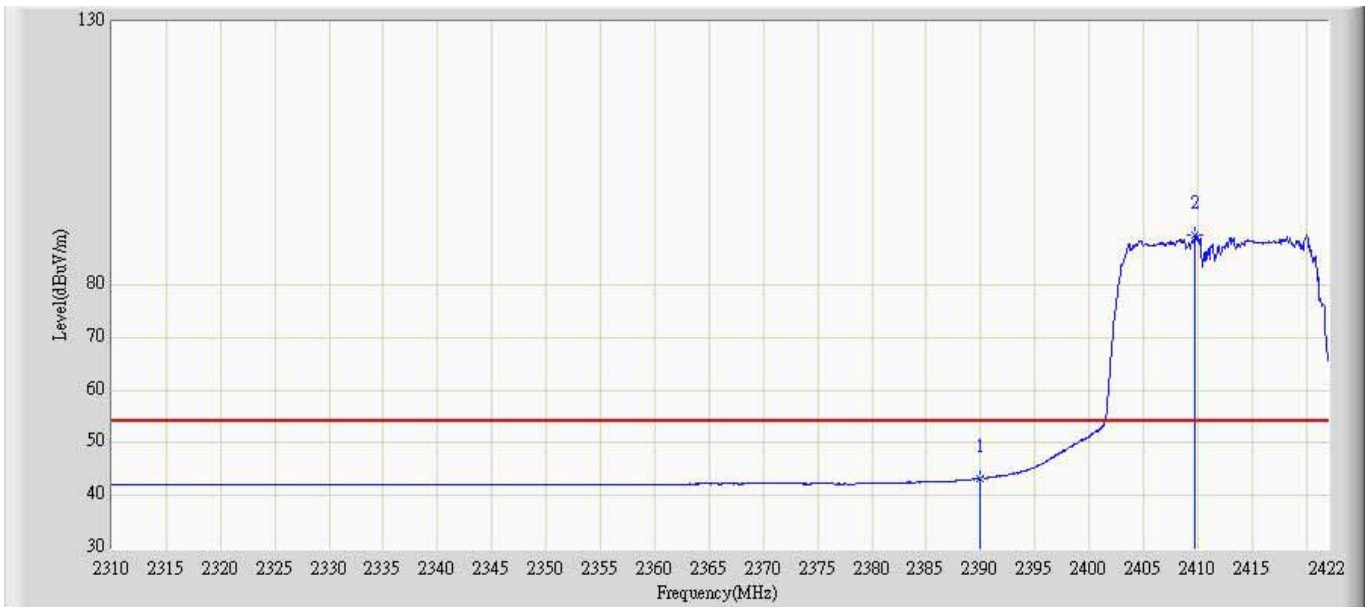
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.839	89.694	58.096	N/A	N/A	31.598	AV
2		2483.500	49.944	18.331	-4.056	54.000	31.613	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz) Ant 110	



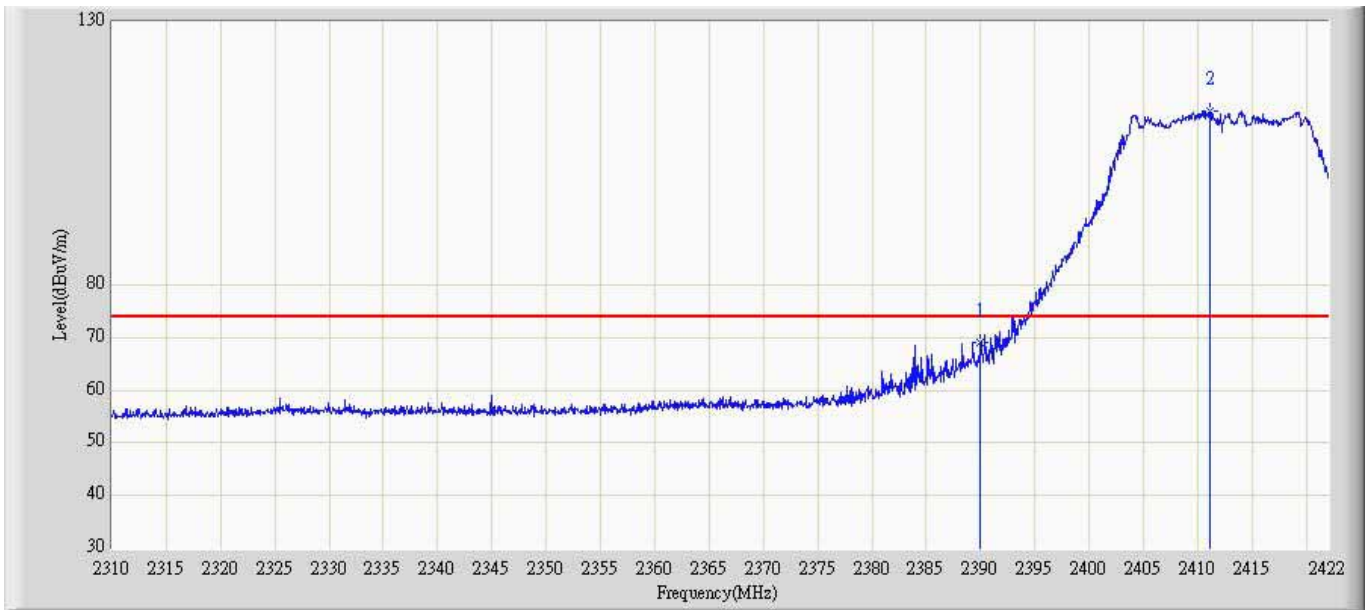
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.785	26.070	-17.215	74.000	30.715	PK
2	*	2409.568	100.985	70.275	N/A	N/A	30.710	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz) Ant 110	



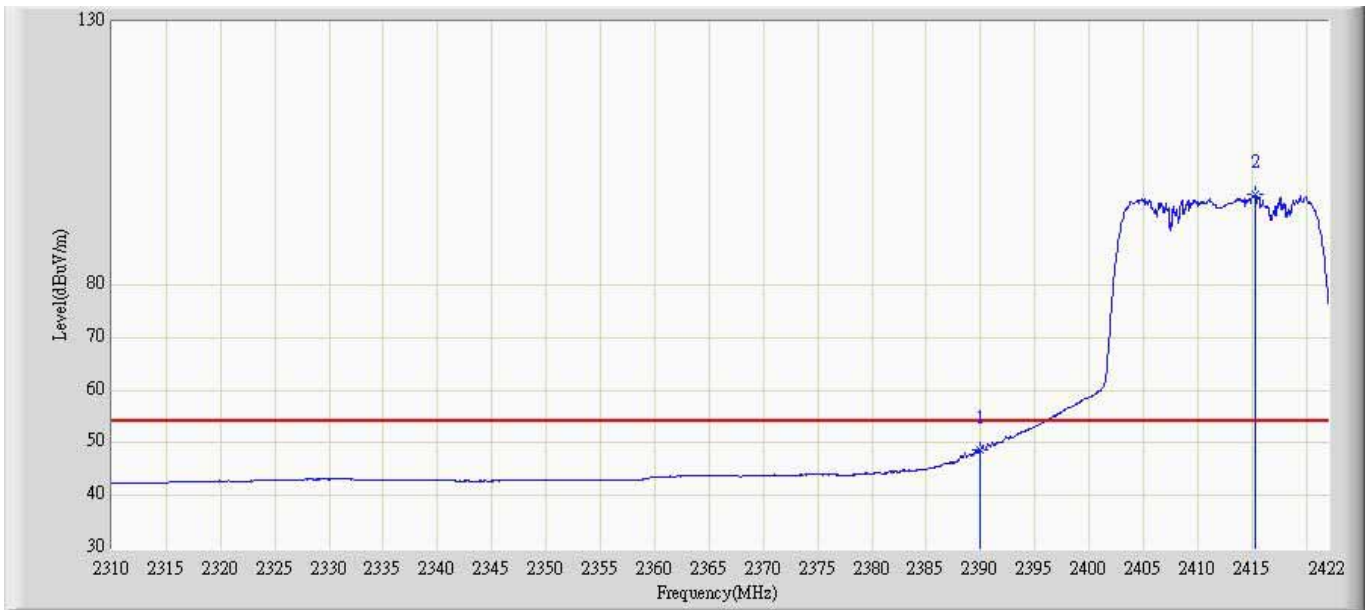
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.309	12.594	-10.691	54.000	30.715	AV
2	*	2409.792	89.574	58.864	N/A	N/A	30.710	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz) Ant 110	



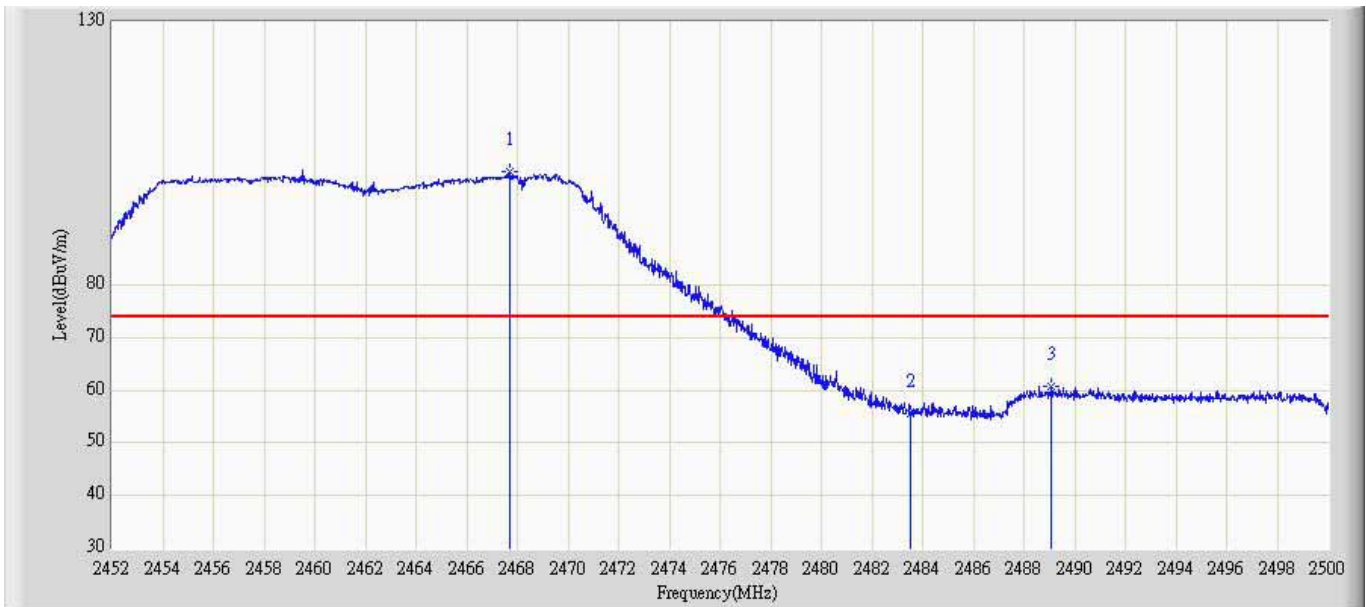
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	69.059	38.344	-4.941	74.000	30.715	PK
2	*	2411.192	112.945	82.235	N/A	N/A	30.710	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz) Ant 110	



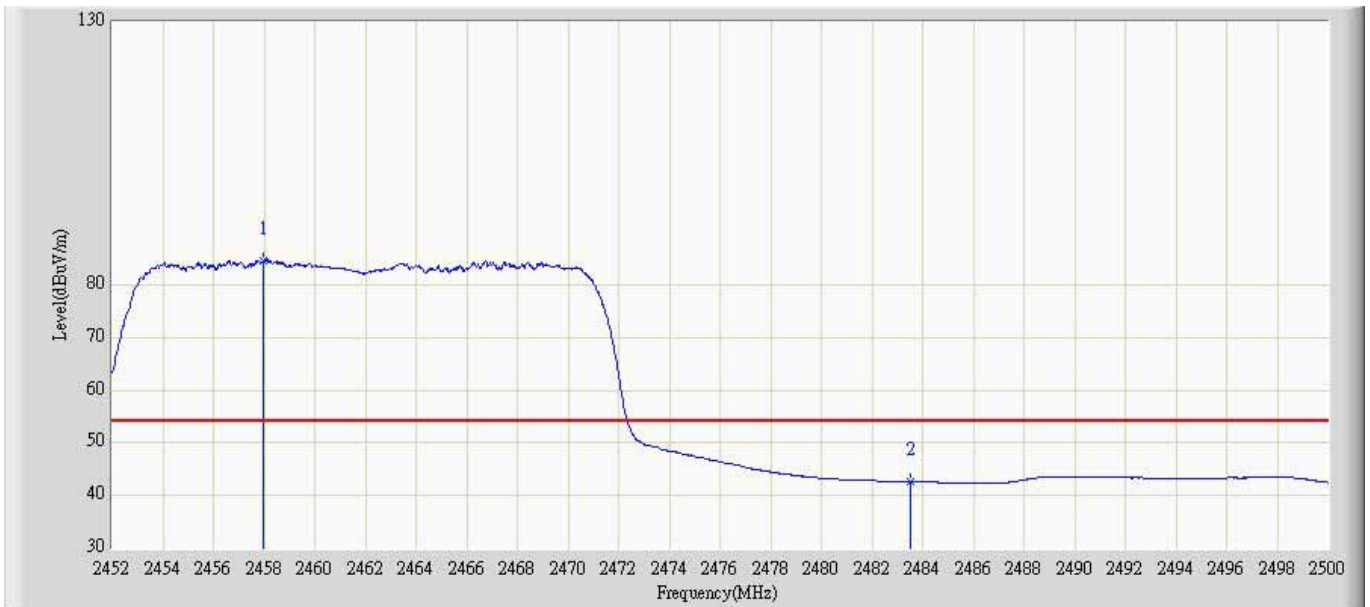
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	48.628	17.913	-5.372	54.000	30.715	AV
2	*	2415.336	97.326	66.613	N/A	N/A	30.712	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz) Ant 110	



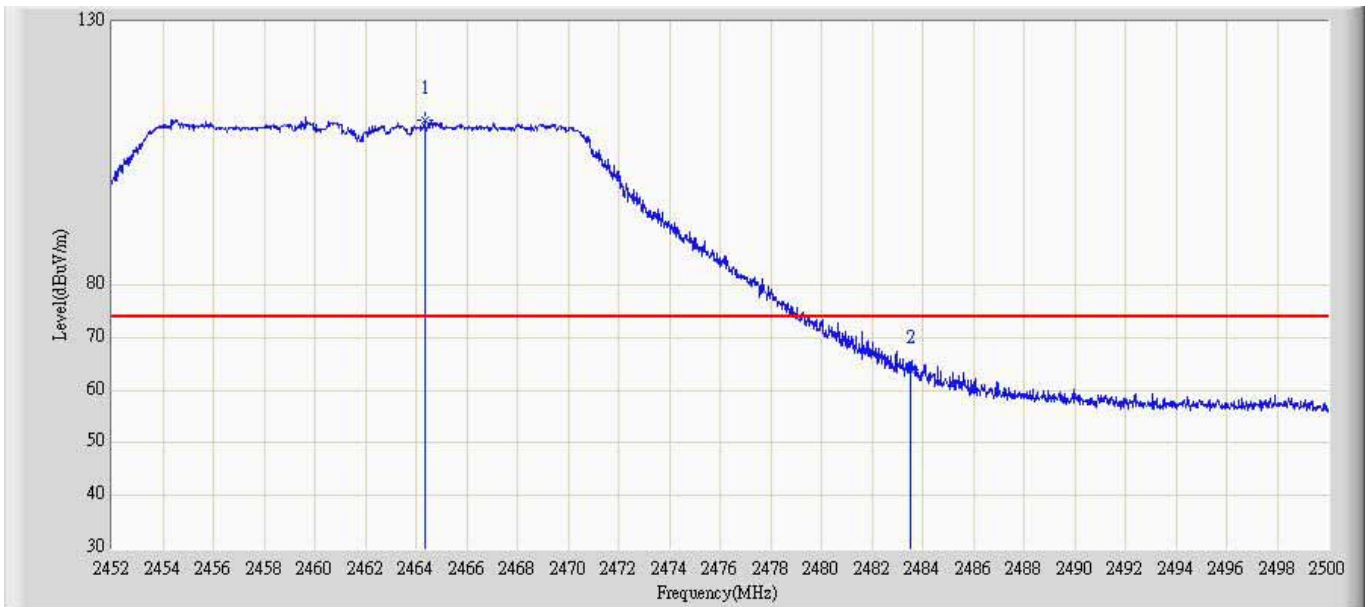
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2467.672	101.678	70.948	N/A	N/A	30.730	PK
2		2483.500	55.628	24.898	-18.372	74.000	30.730	PK
3		2489.104	60.641	29.911	-13.359	74.000	30.730	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz) Ant 110	



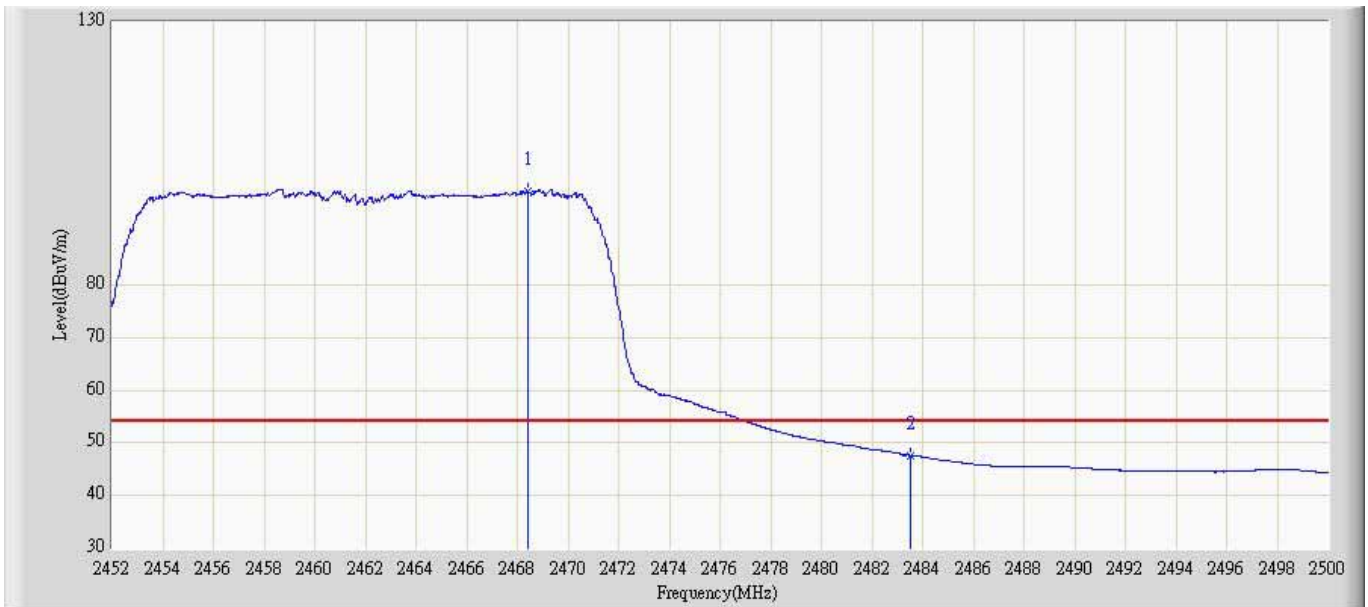
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2457.976	84.522	53.794	N/A	N/A	30.728	AV
2		2483.500	42.619	11.889	-11.381	54.000	30.730	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz) Ant 110	



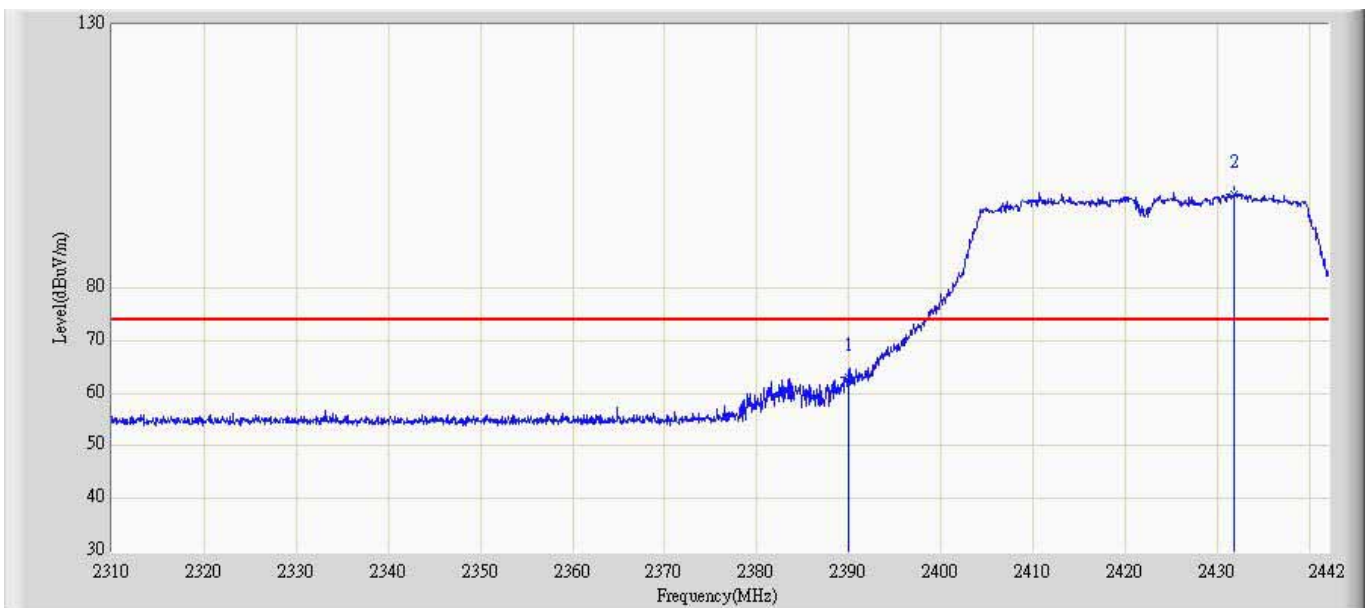
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.336	111.181	80.451	N/A	N/A	30.730	PK
2		2483.500	63.872	33.142	-10.128	74.000	30.730	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz) Ant 110	



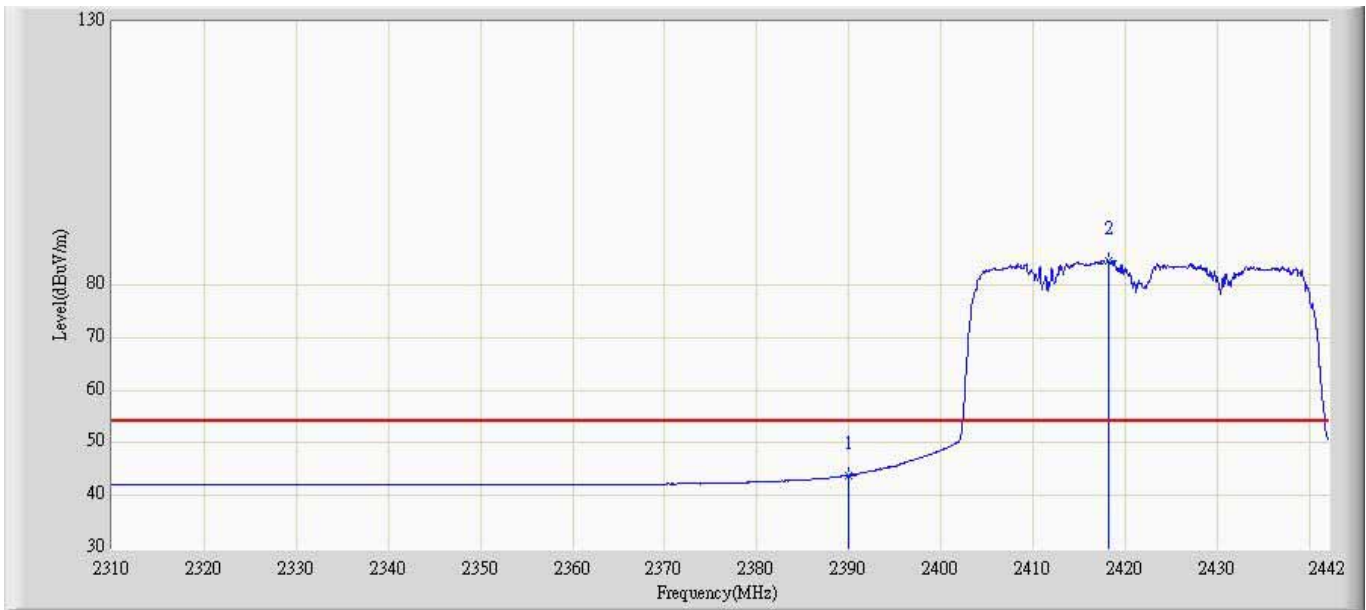
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2468.416	97.869	67.139	N/A	N/A	30.730	AV
2		2483.500	47.641	16.911	-6.359	54.000	30.730	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz) Ant 110	



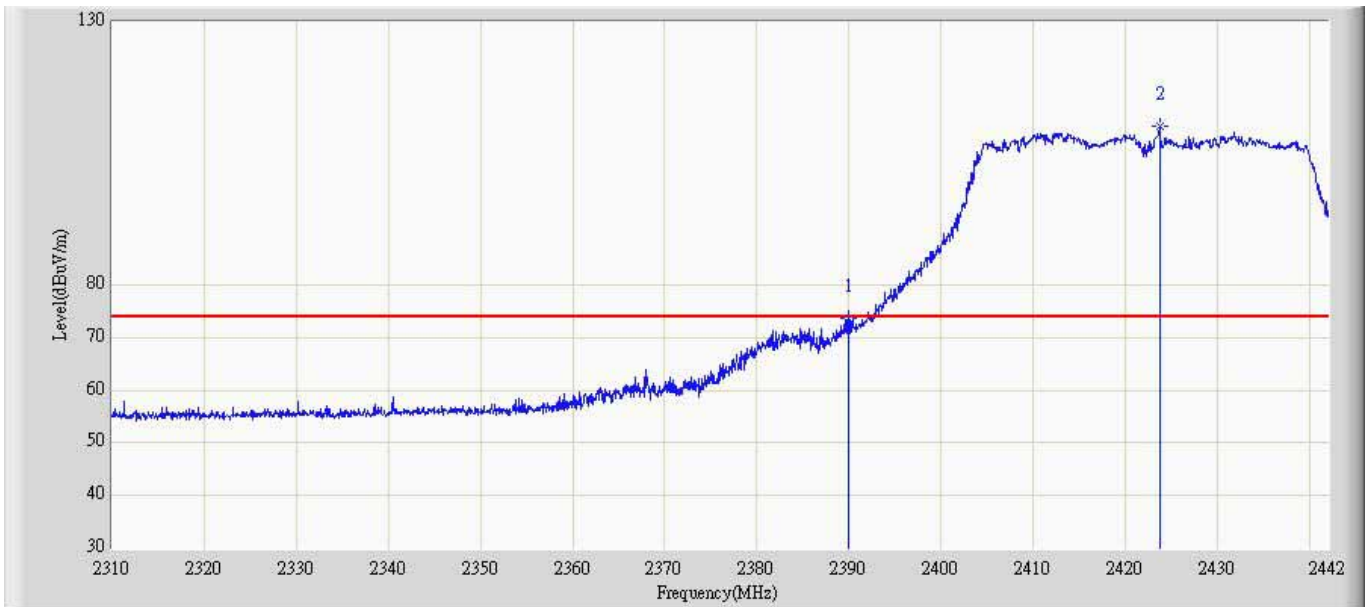
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	62.963	32.248	-11.037	74.000	30.715	PK
2	*	2431.902	97.883	67.163	N/A	N/A	30.720	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz) Ant 110	



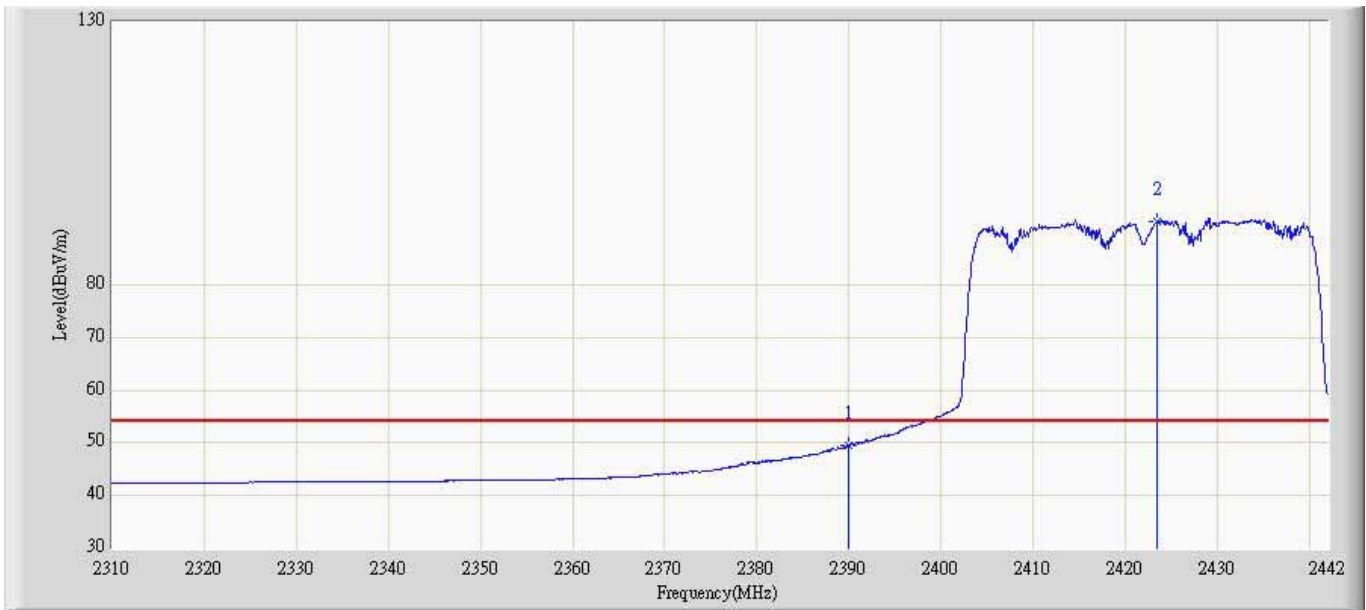
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.913	13.198	-10.087	54.000	30.715	AV
2	*	2418.174	84.580	53.866	N/A	N/A	30.714	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz) Ant 110	



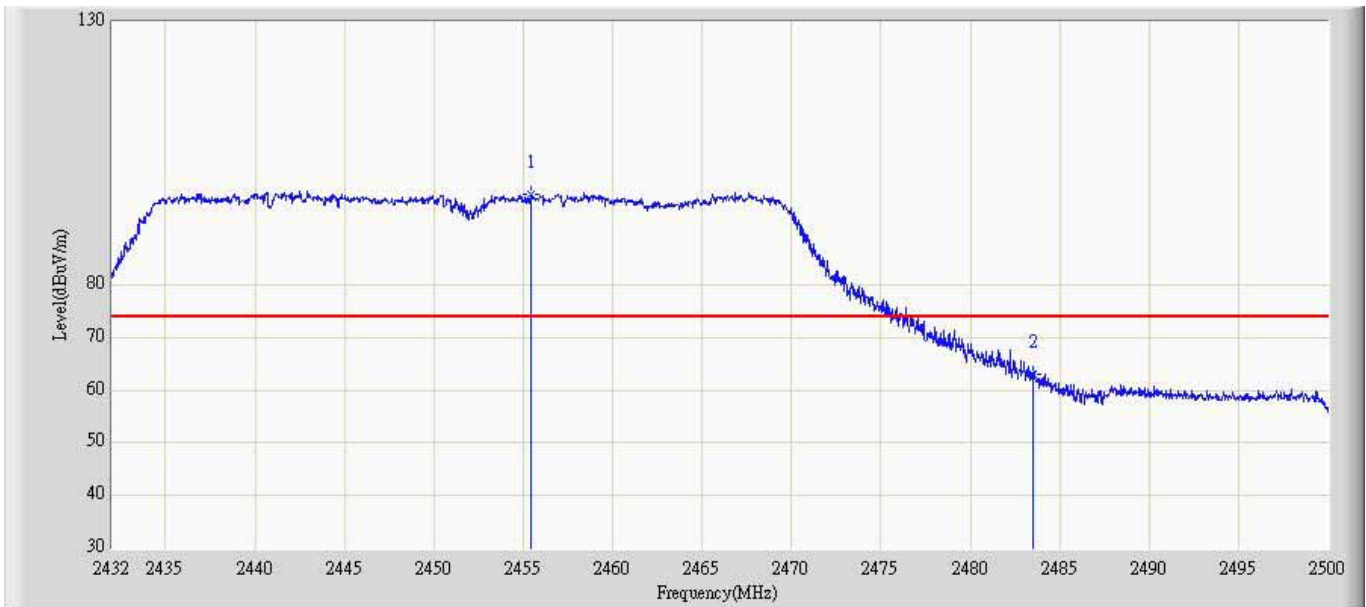
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	73.768	43.053	-0.232	74.000	30.715	PK
2	*	2423.718	110.279	79.562	N/A	N/A	30.718	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz) Ant 110	



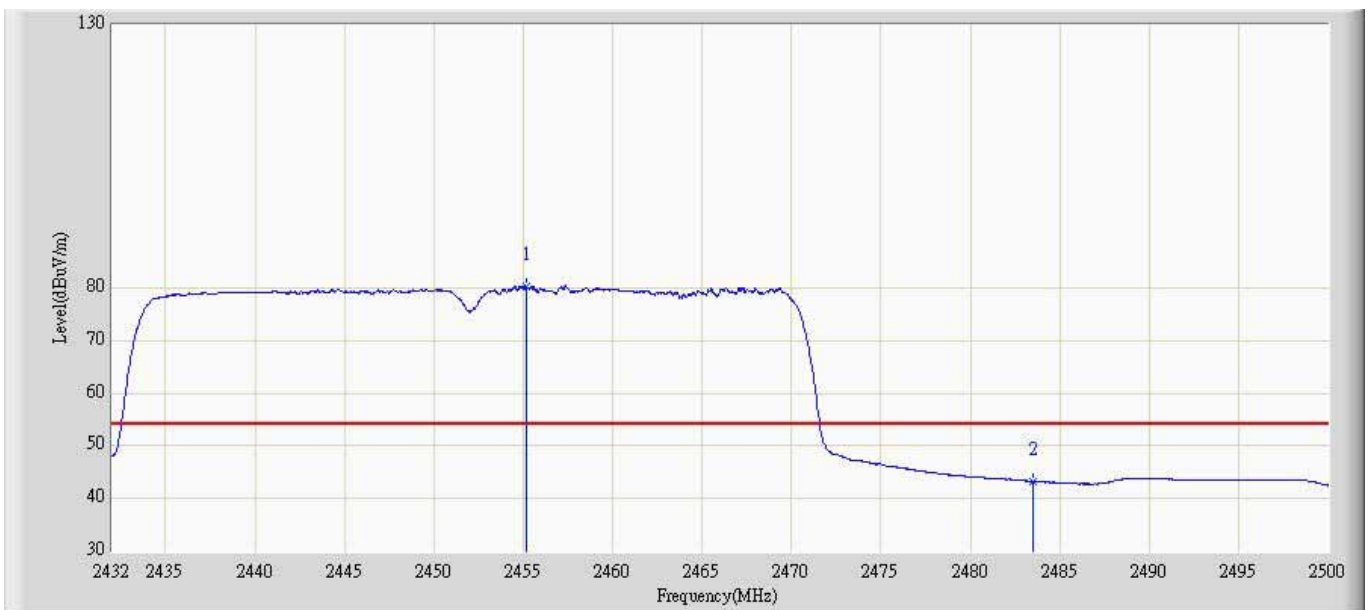
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.537	18.822	-4.463	54.000	30.715	AV
2	*	2423.520	92.077	61.360	N/A	N/A	30.718	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz) Ant 110	



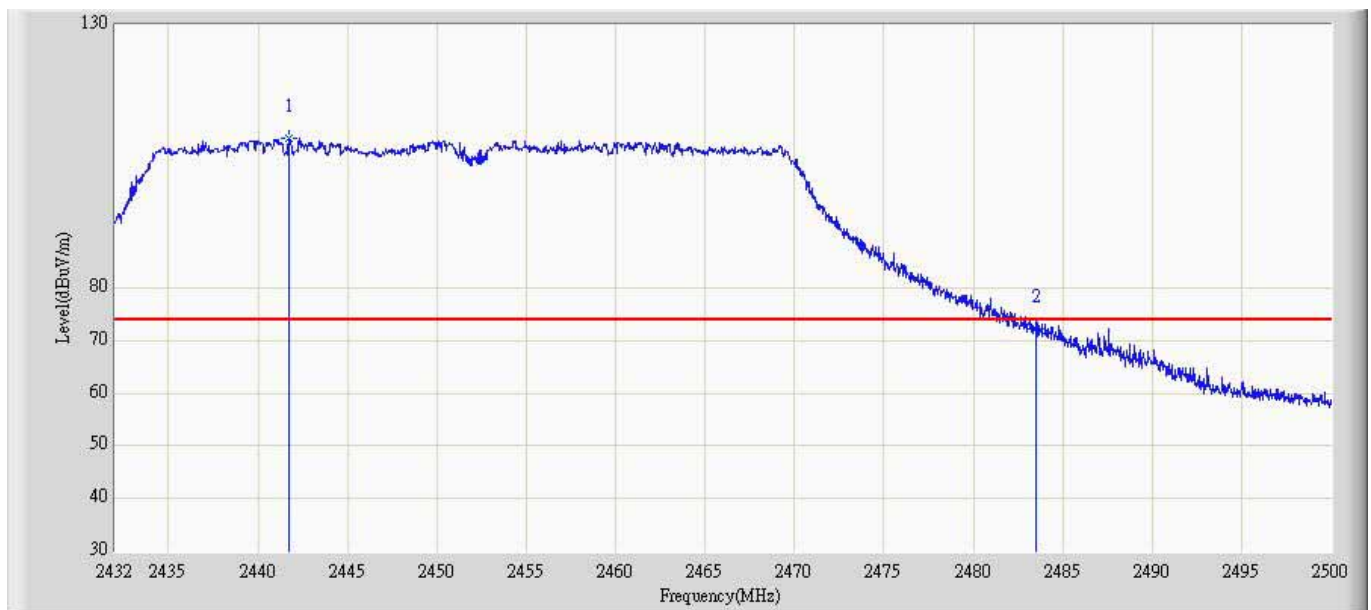
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.460	97.350	66.624	N/A	N/A	30.726	PK
2		2483.500	63.155	32.425	-10.845	74.000	30.730	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Horizontal
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz) Ant 110	



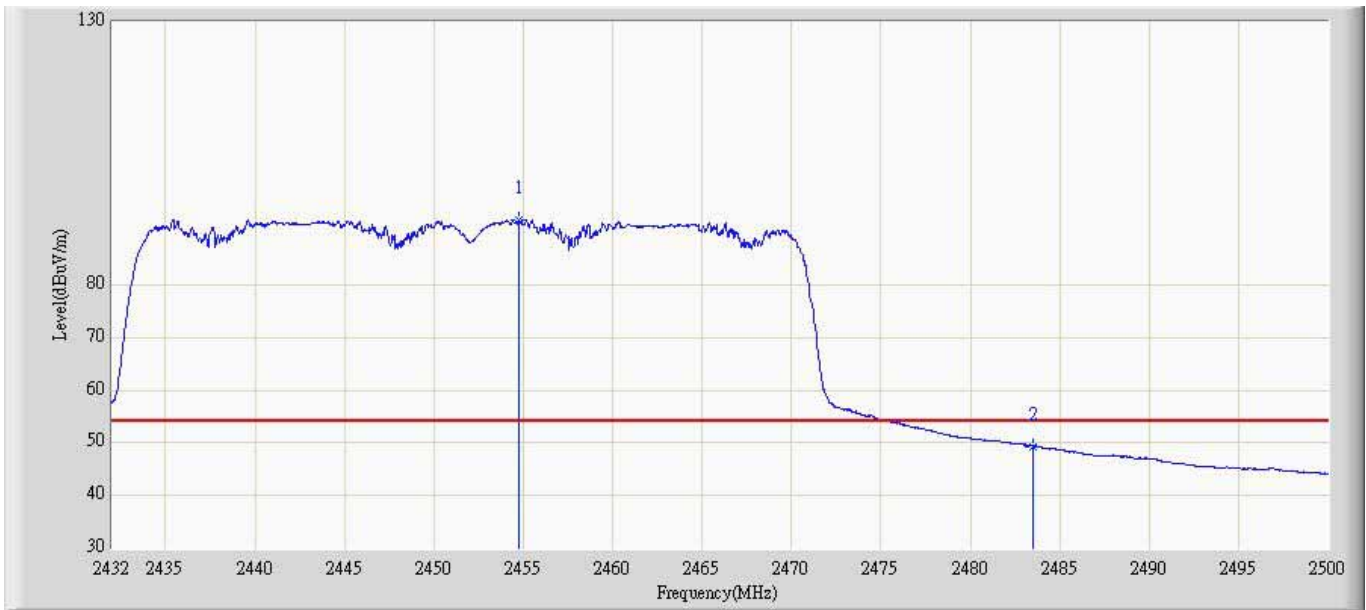
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2455.188	80.182	49.456	N/A	N/A	30.726	AV
2		2483.500	43.331	12.601	-10.669	54.000	30.730	AV

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz) Ant 110	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2441.758	108.466	77.746	N/A	N/A	30.720	PK
2		2483.500	72.195	41.465	-1.805	74.000	30.730	PK

Engineer: Milo	
Site: AC5	Time: 2013/06/07 - 21:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D-737(1-18GHz)	Polarity: Vertical
EUT: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz) Ant 110	



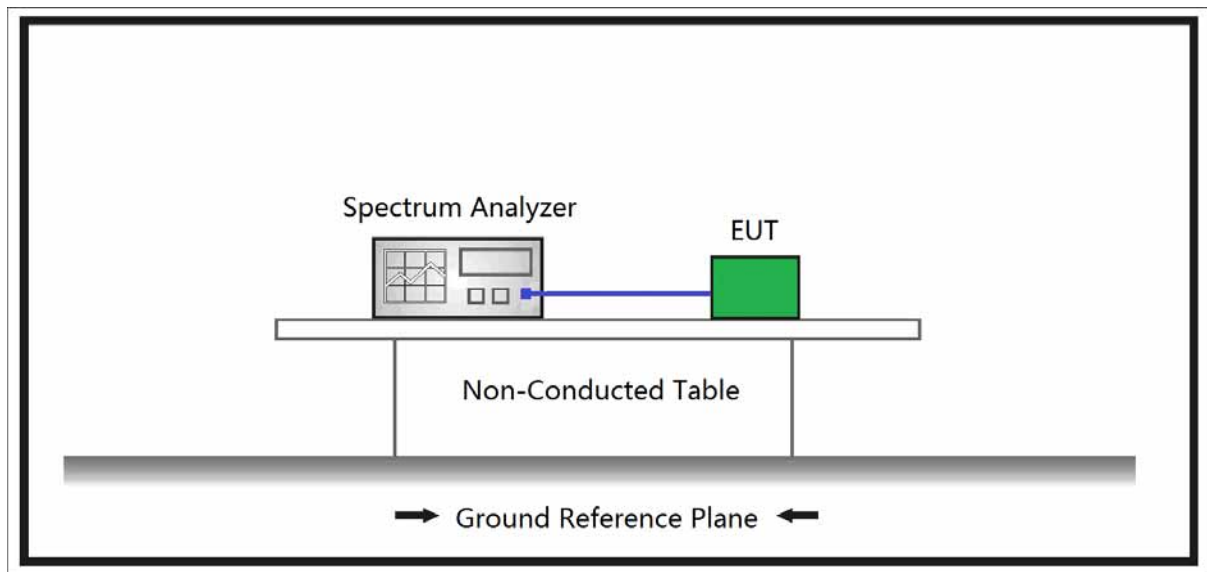
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2454.746	92.258	61.532	N/A	N/A	30.726	AV
2		2483.500	49.363	18.633	-4.637	54.000	30.730	AV

7. Operation Frequency Range of 20dB Bandwidth

7.1. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

7.2. Test Setup



7.3. Test Procedure

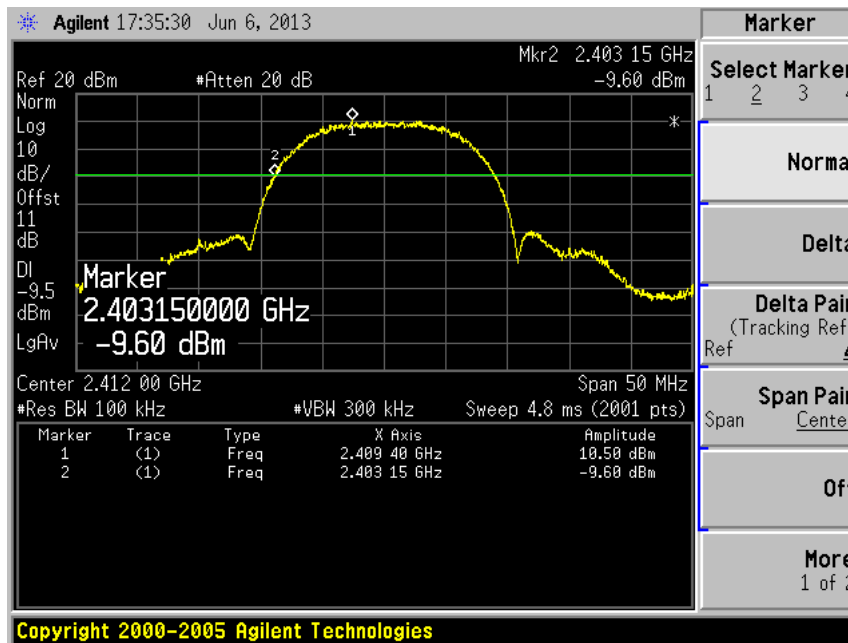
The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

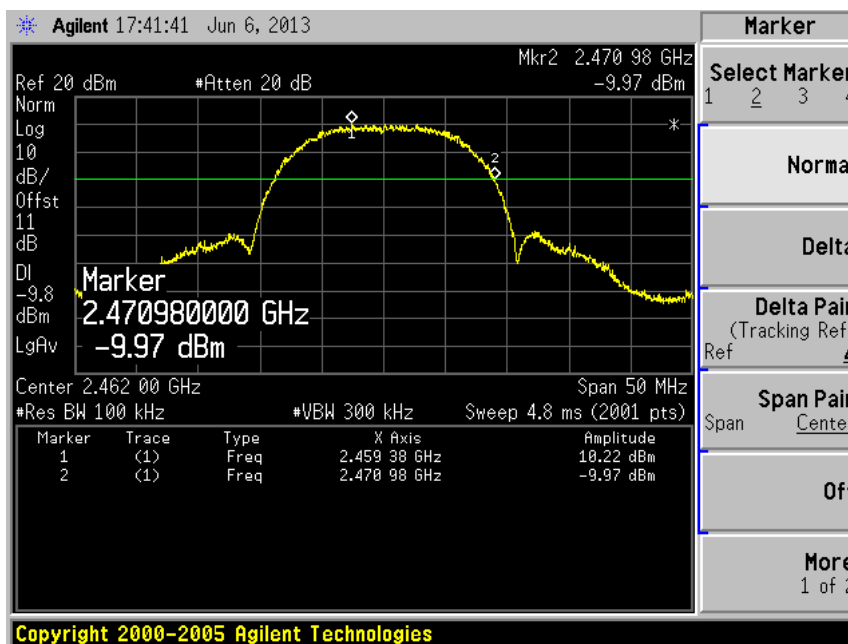
7.4. Test Result

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 100)

Channel 01 (2412MHz)

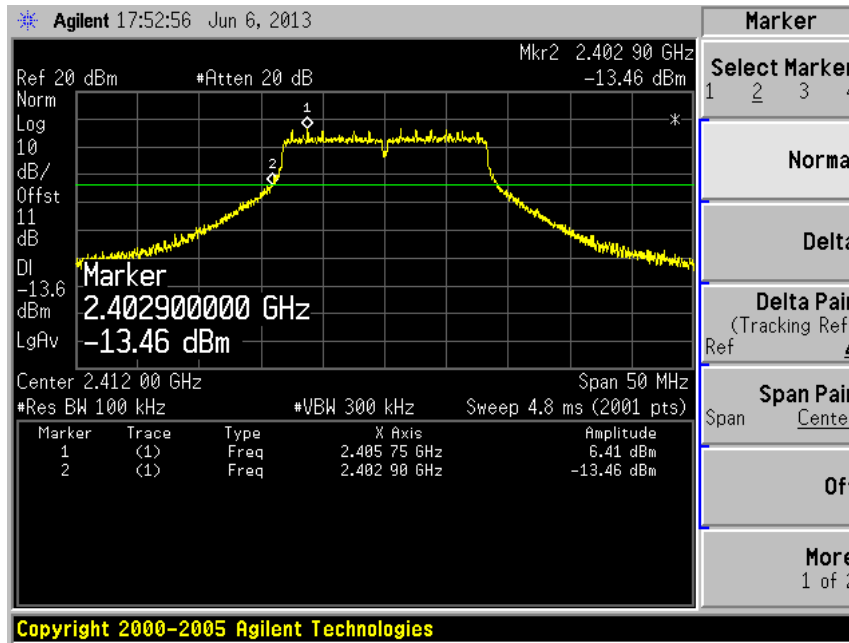


Channel 11 (2462MHz)

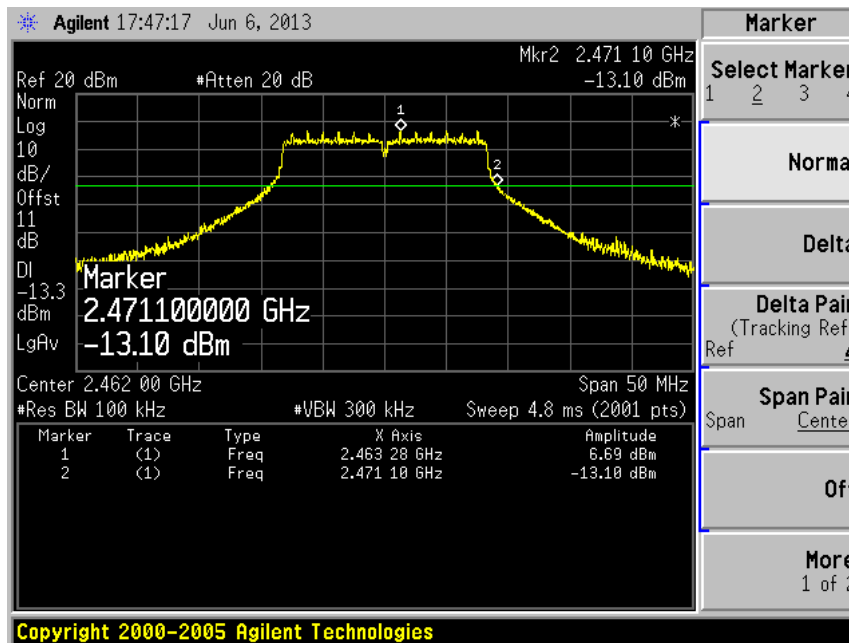


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g (Ant 100)

Channel 01 (2412MHz)

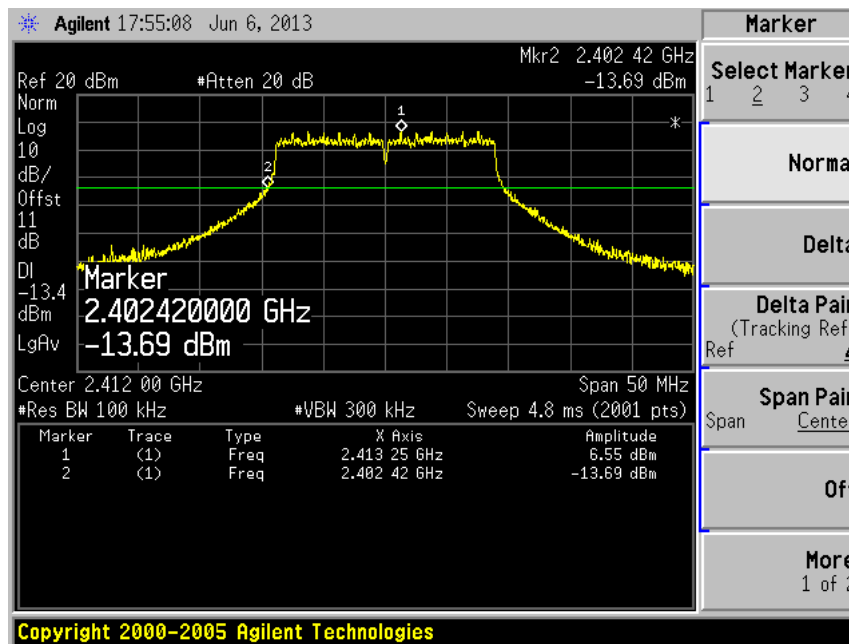


Channel 11 (2462MHz)

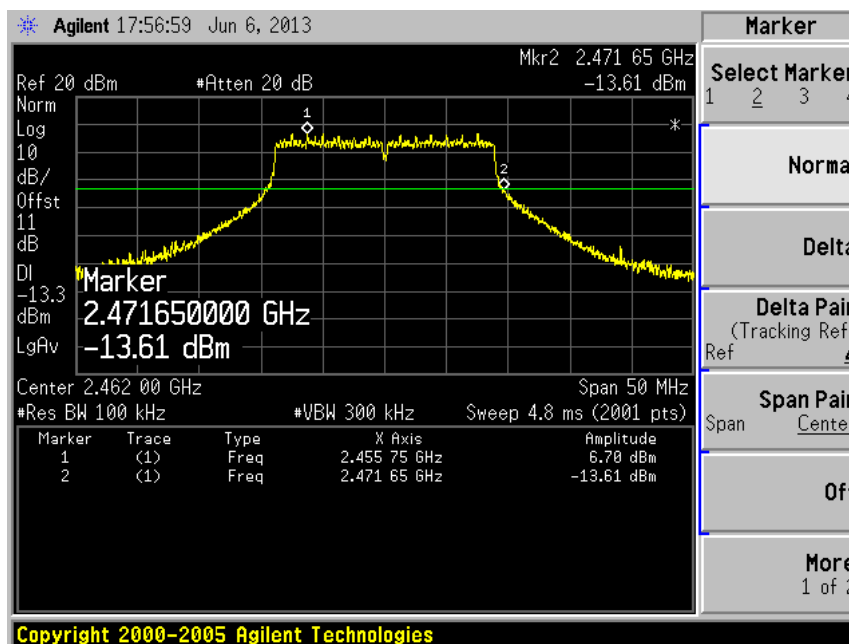


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(20MHz) (Ant 100)

Channel 01 (2412MHz)

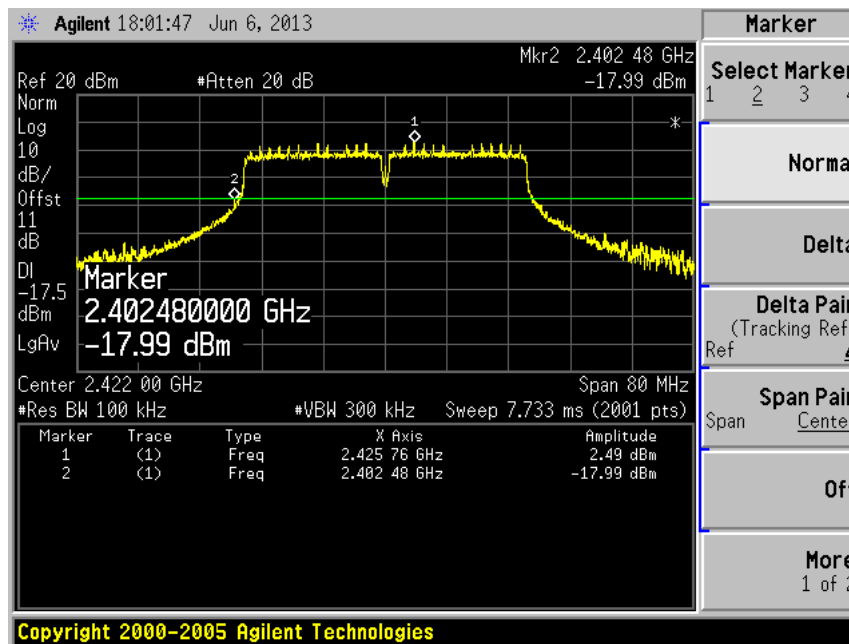


Channel 11 (2462MHz)

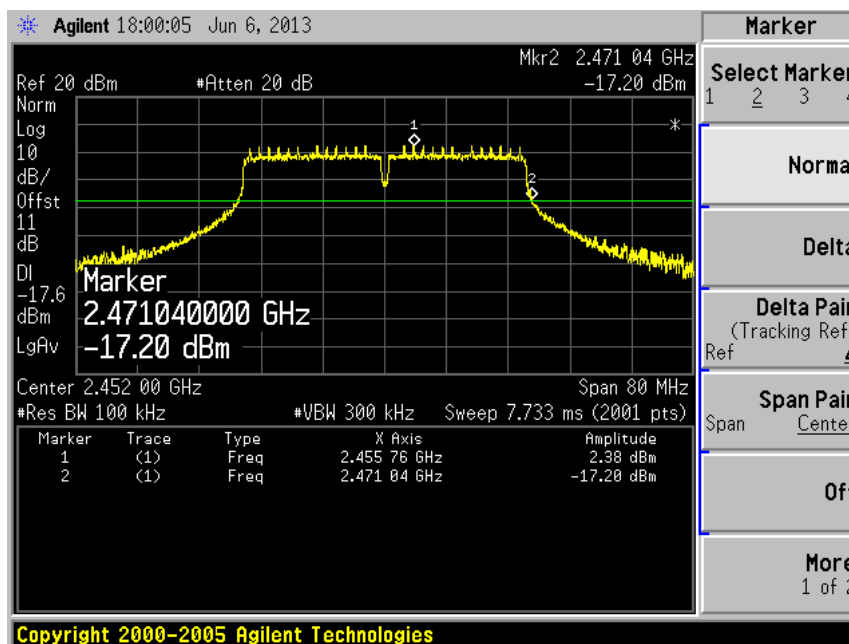


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 4: Transmit by 802.11n(40MHz) (Ant 100)

Channel 03 (2422MHz)

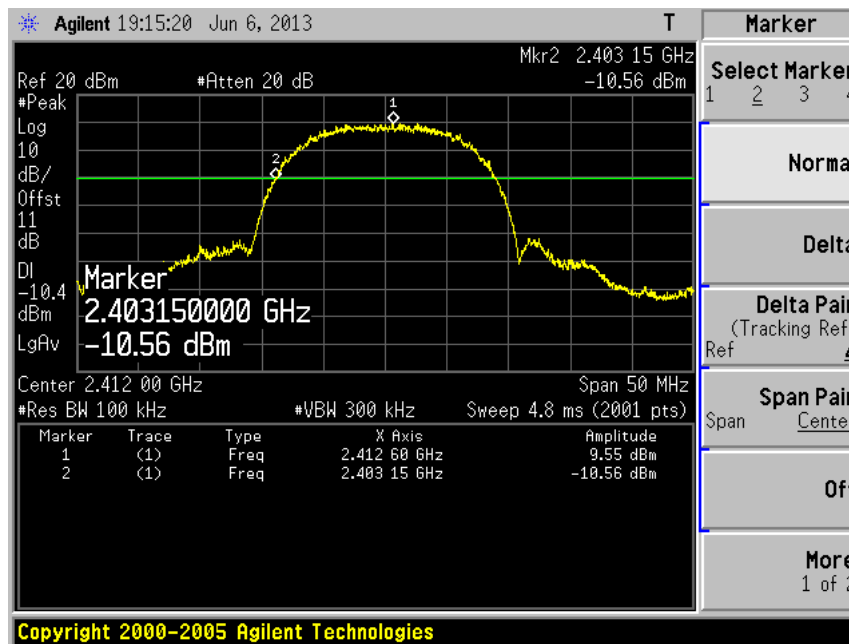


Channel 09 (2452MHz)

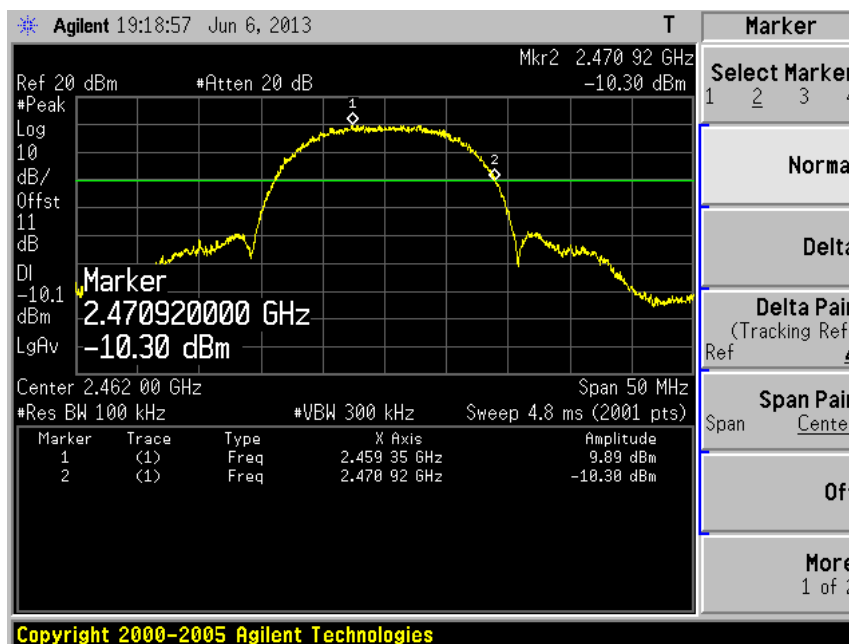


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11b (Ant 010)

Channel 01 (2412MHz)

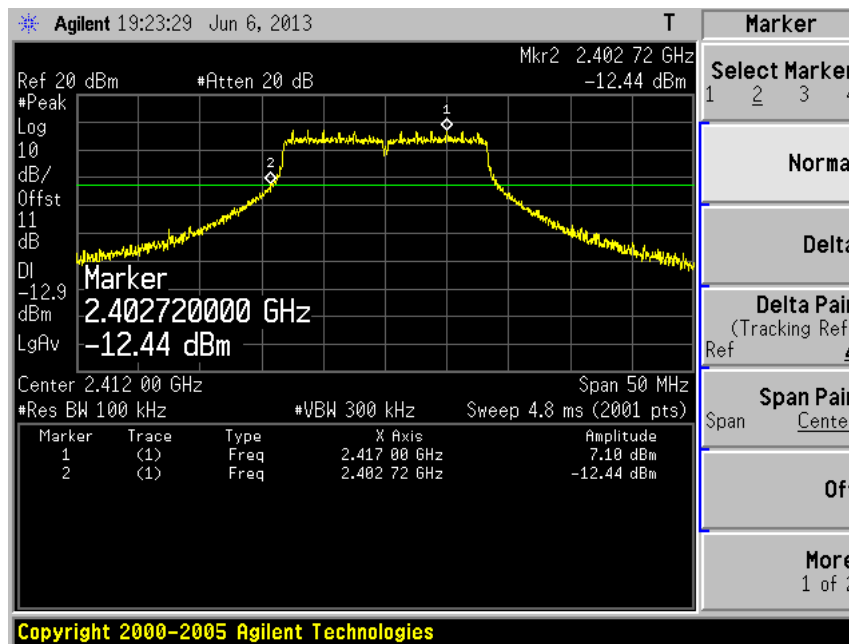


Channel 11 (2462MHz)

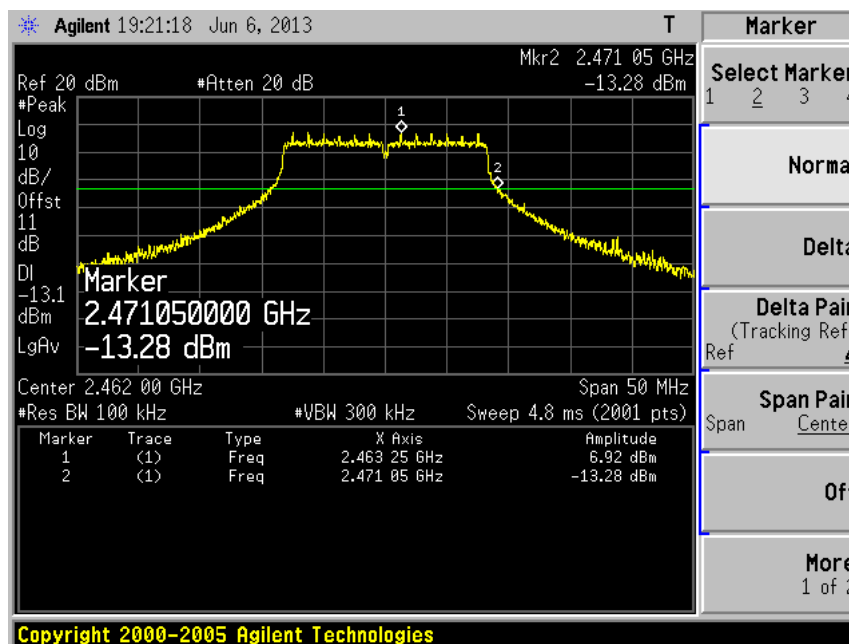


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g (Ant 010)

Channel 01 (2412MHz)

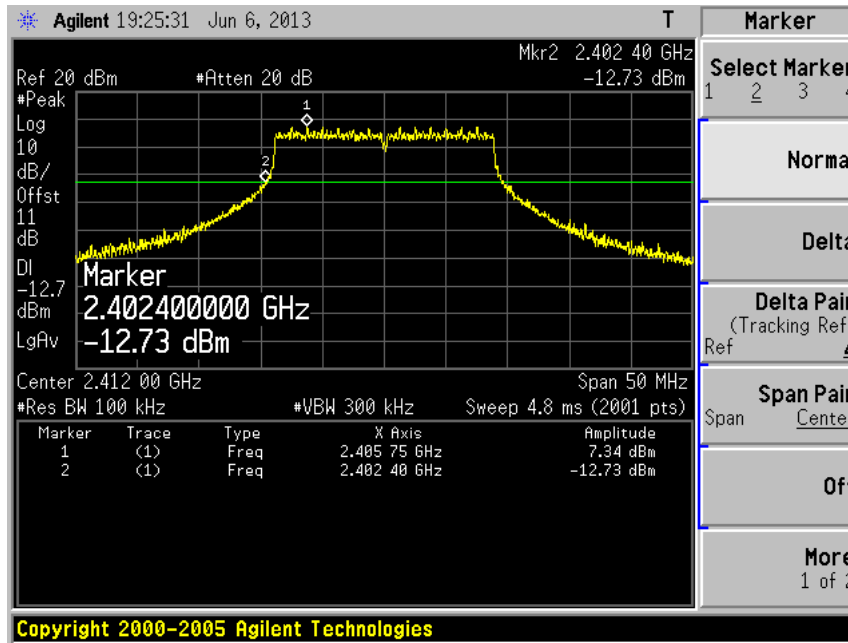


Channel 11 (2462MHz)

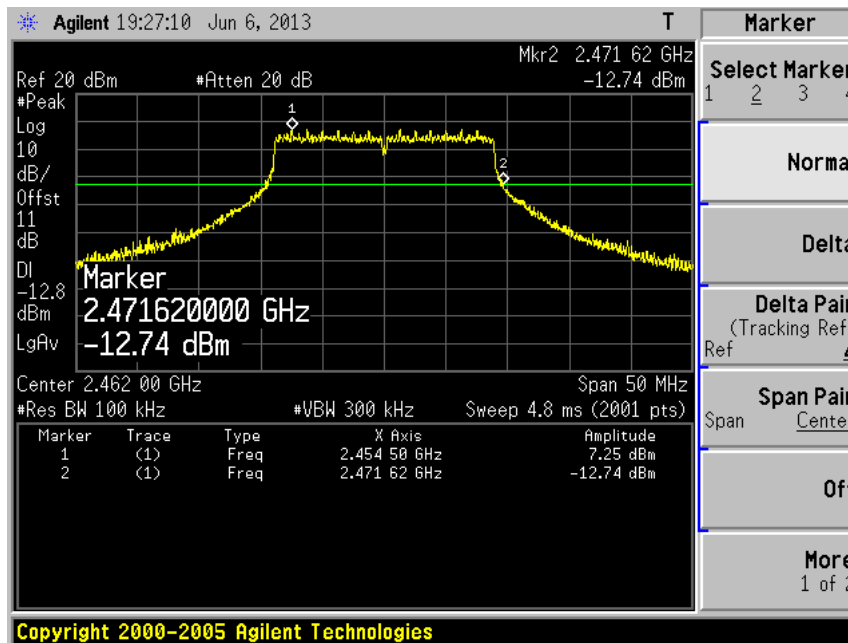


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 3: Transmit by 802.11n(20MHz) (Ant 010)

Channel 01 (2412MHz)

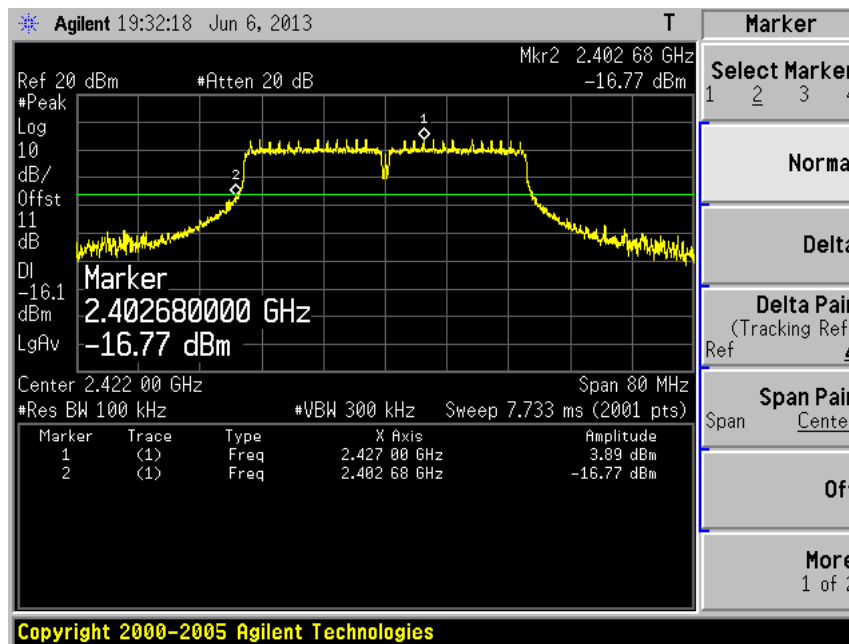


Channel 11 (2462MHz)

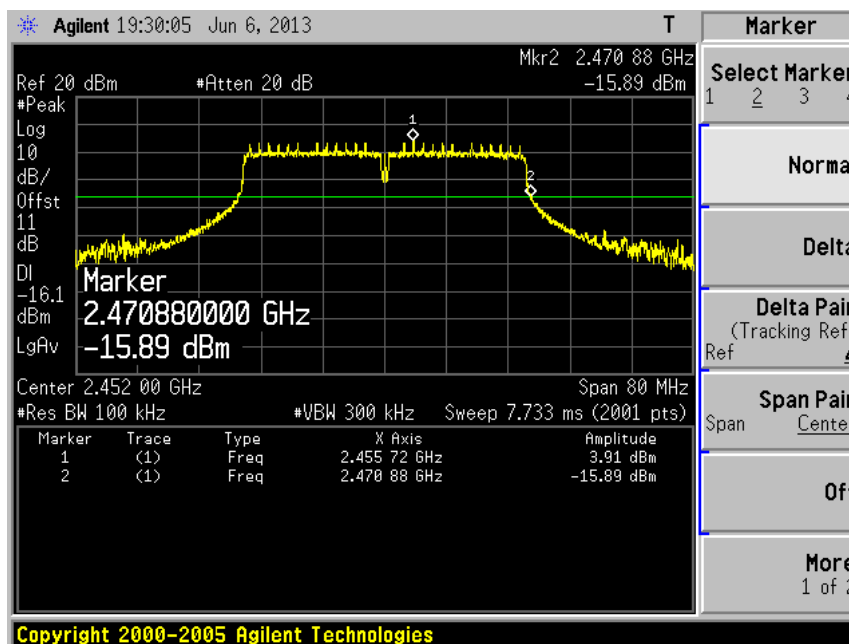


Product	: WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: TR-8
Test Mode	: Mode 4: Transmit by 802.11n(40MHz) (Ant 010)

Channel 03 (2422MHz)



Channel 09 (2452MHz)

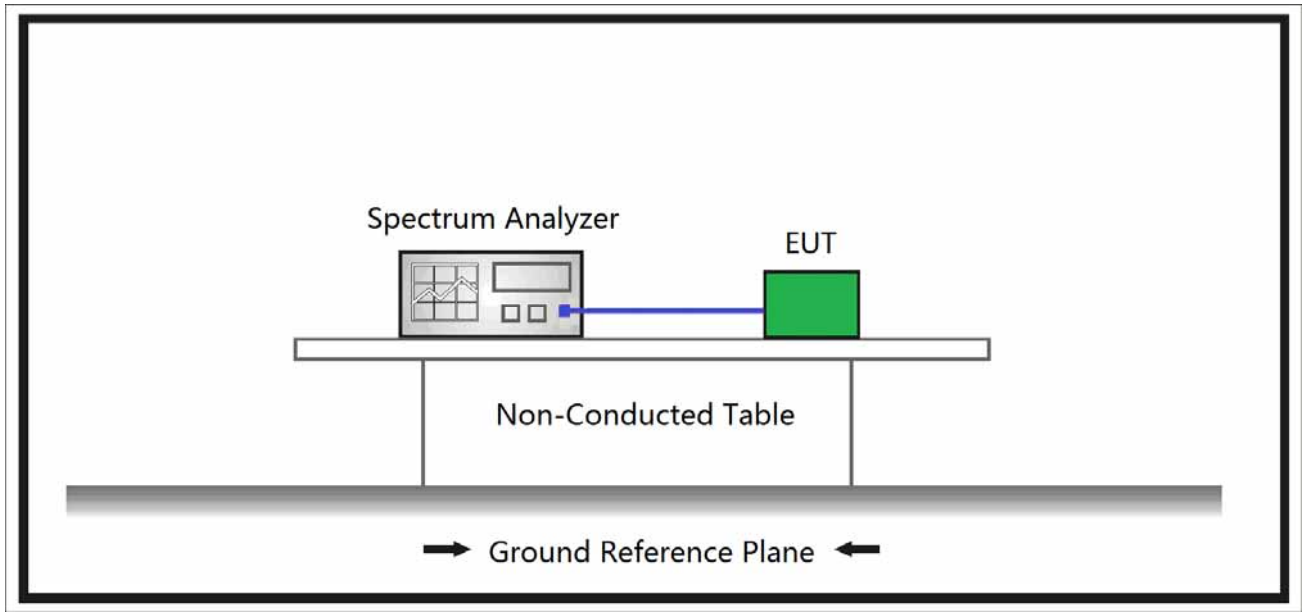


8. Occupied Bandwidth

8.1. Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

8.2. Test Setup



8.3. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

DTS bandwidth OPTION 2:

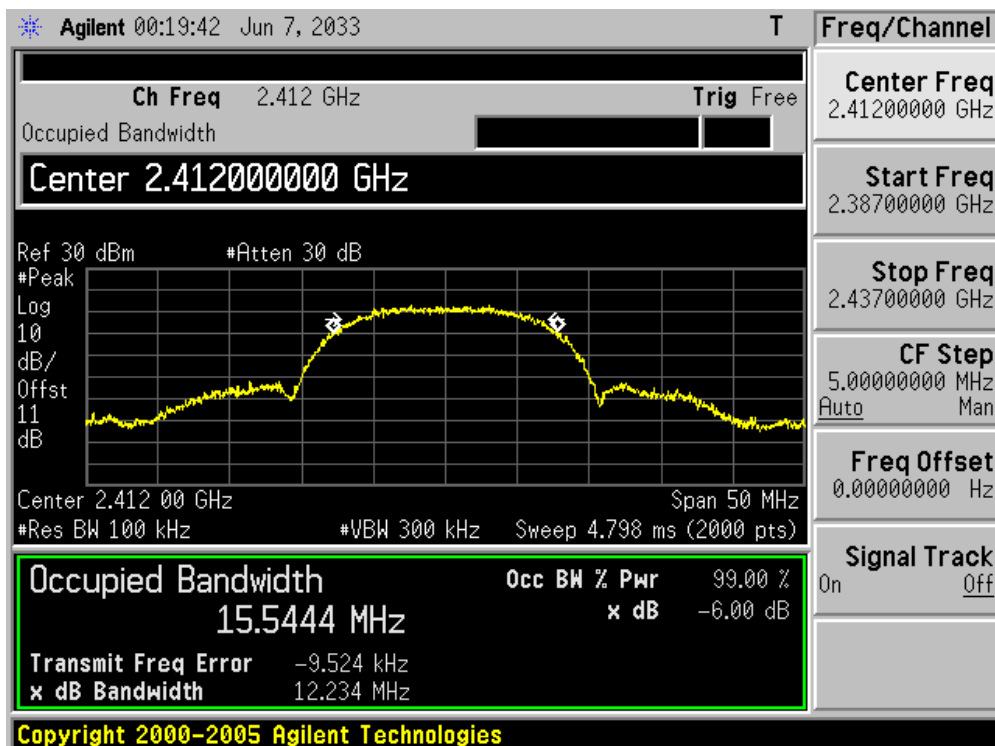
The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3 * RBW$, peak detector with maximum hold) is implemented by the instrumentation function.

8.4. Test Result

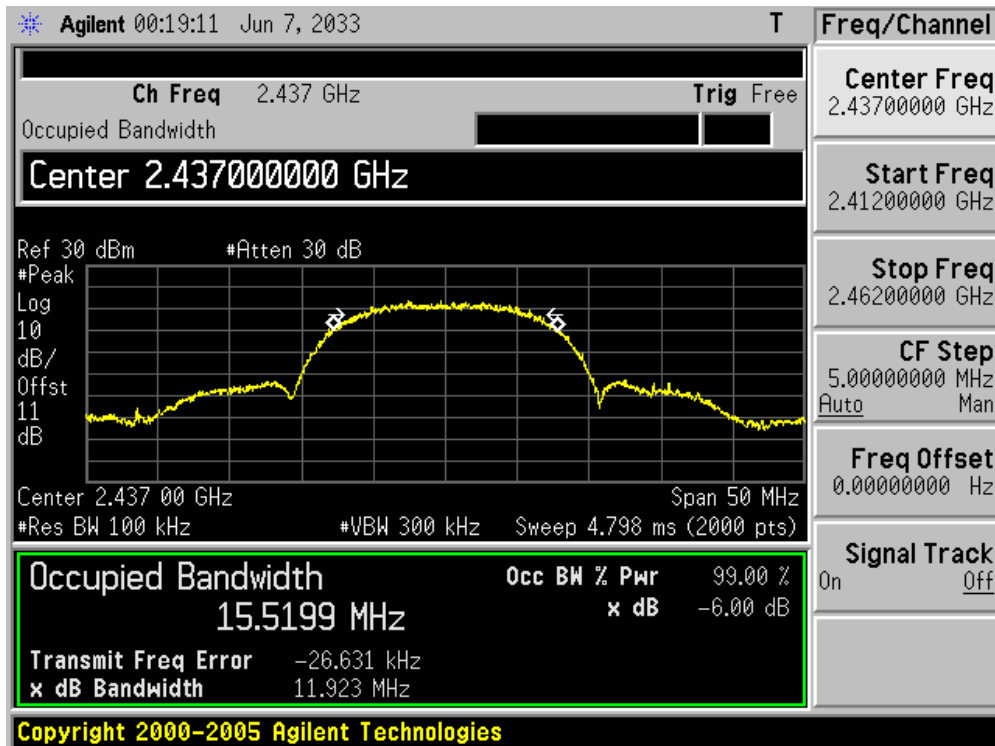
Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12234	500	Pass
06	2437	11923	500	Pass
11	2462	12100	500	Pass

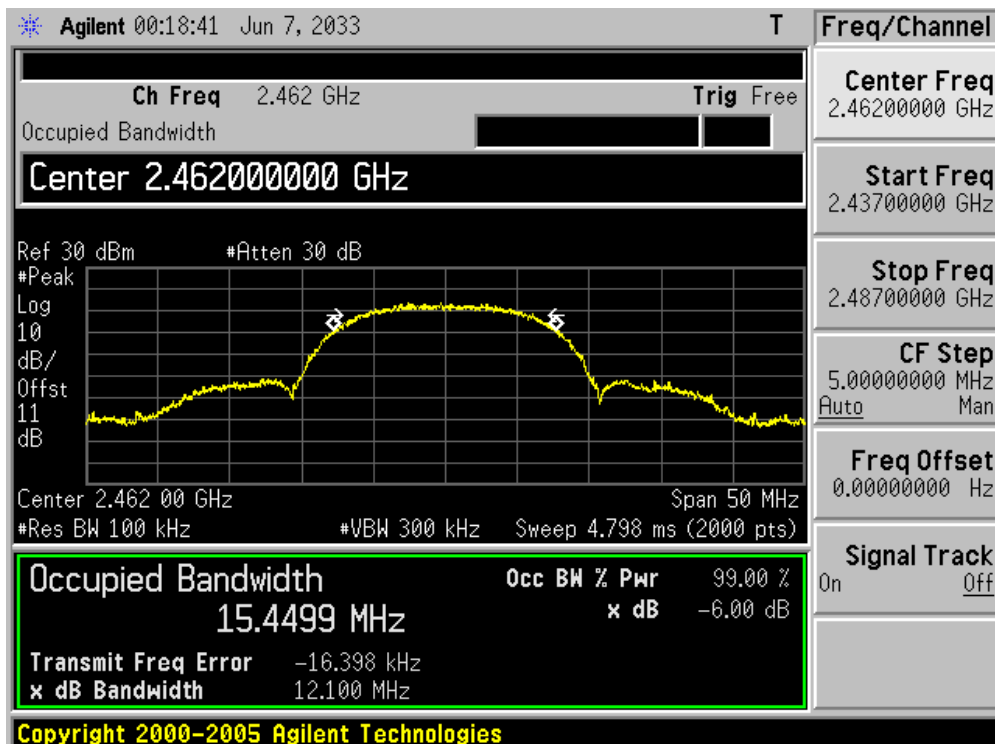
Channel 01 (2412MHz)



Channel 06 (2437MHz)



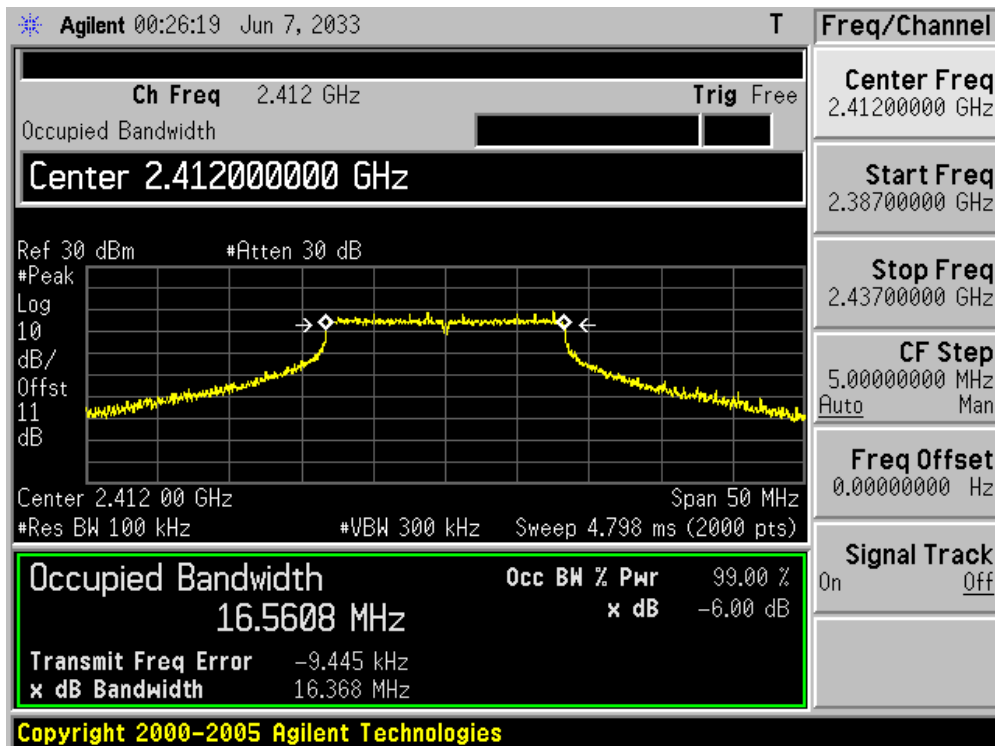
Channel 11 (2462MHz)

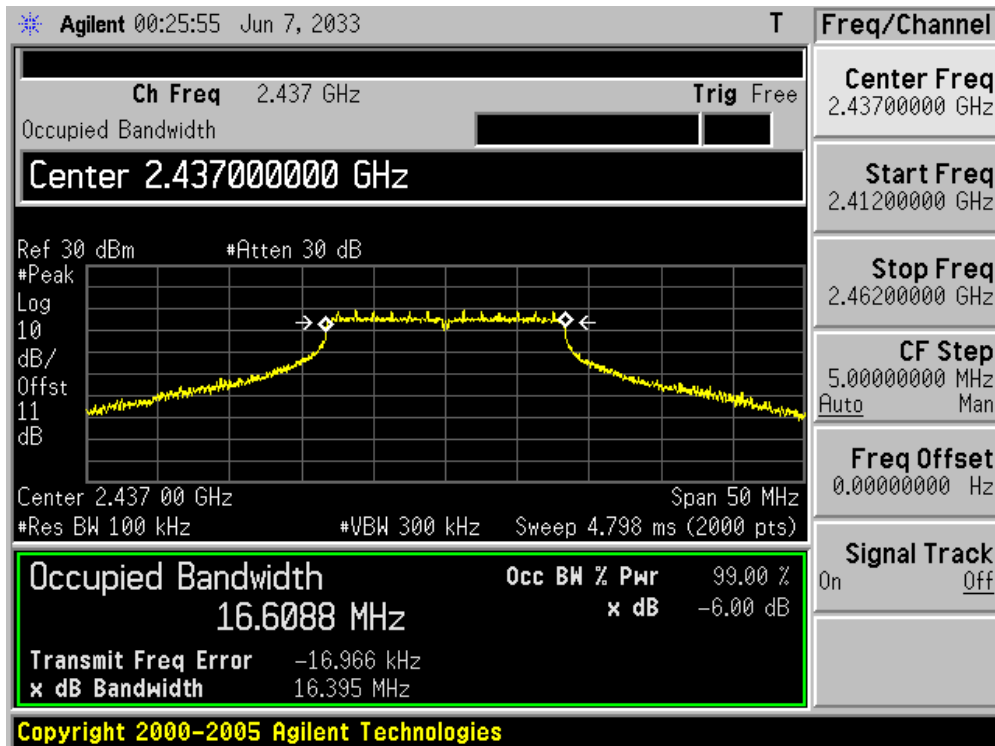
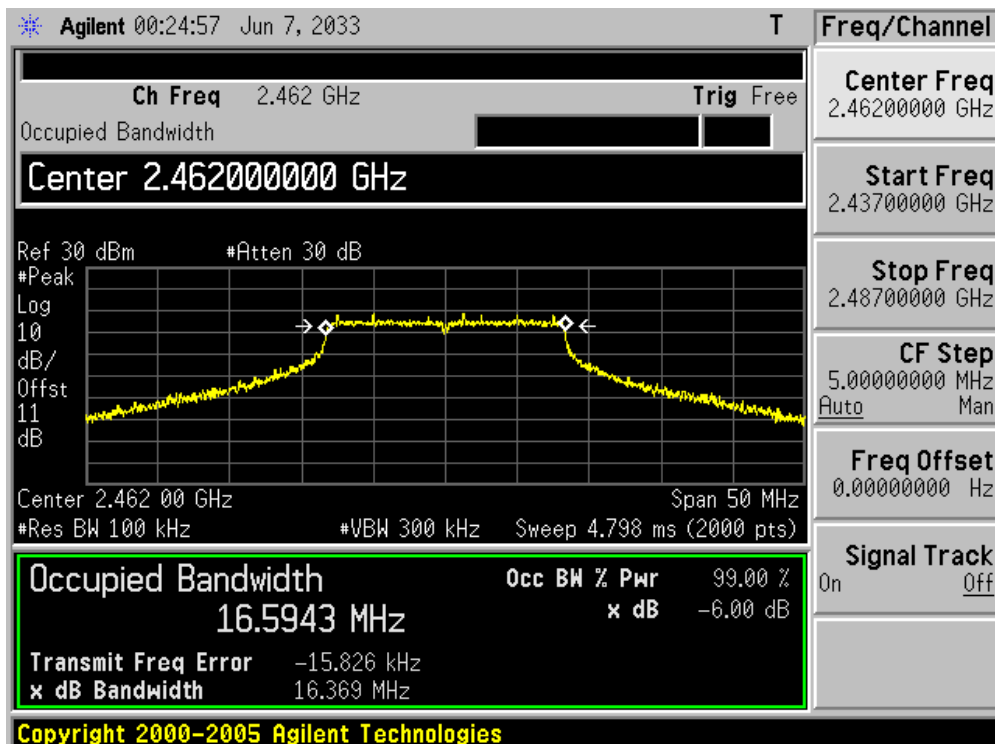


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16368	500	Pass
06	2437	16395	500	Pass
11	2462	16369	500	Pass

Channel 01 (2412MHz)

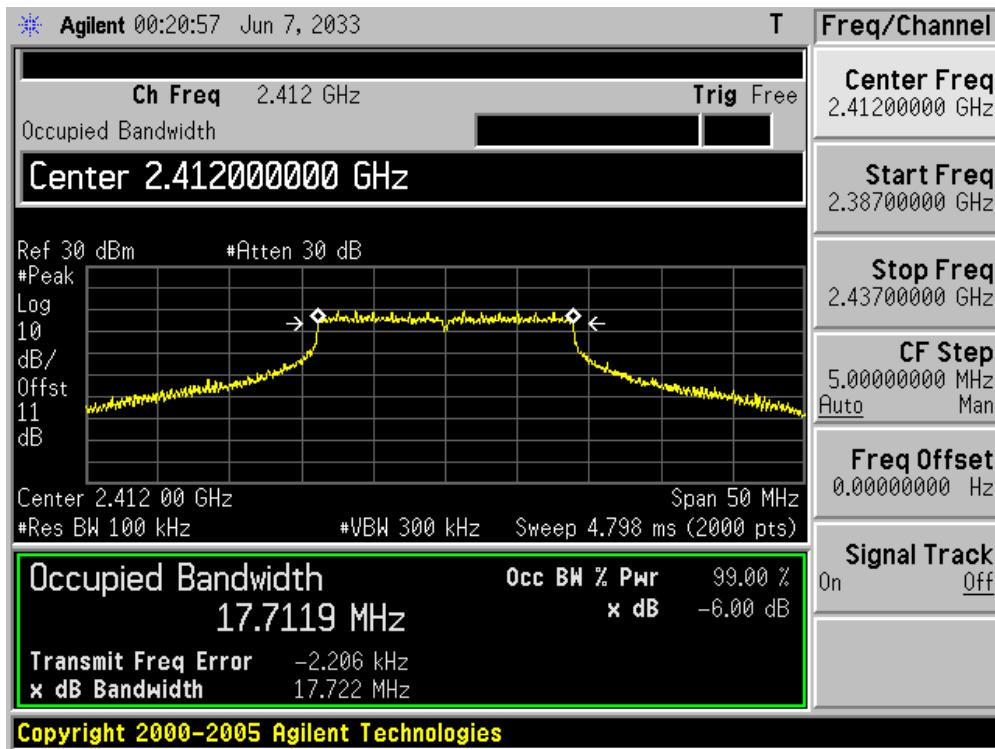


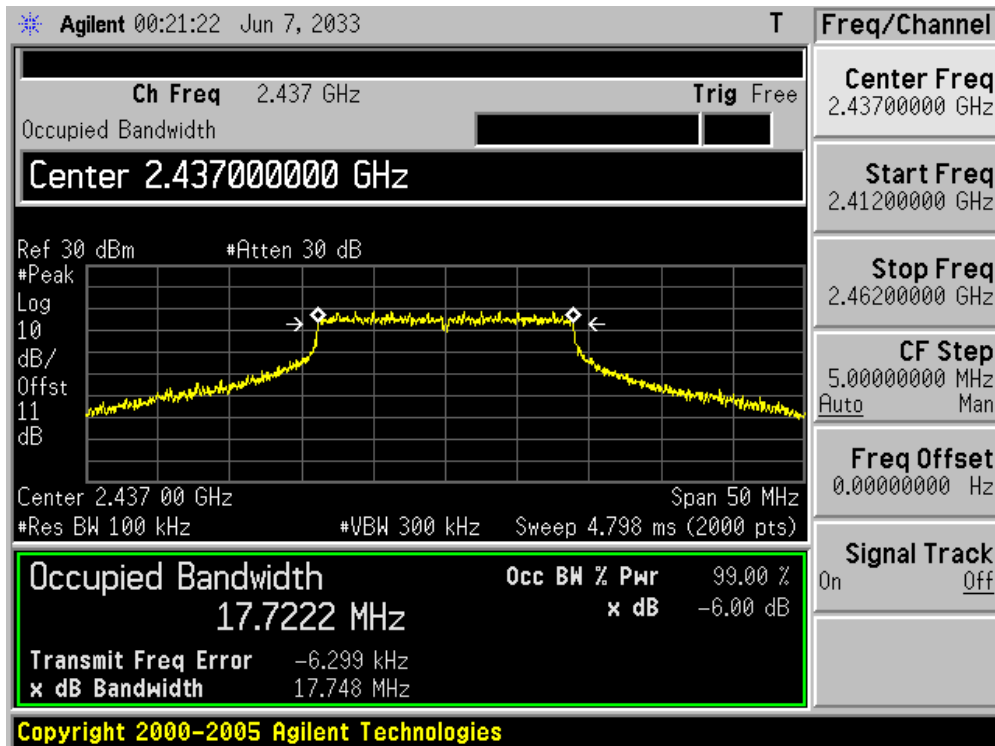
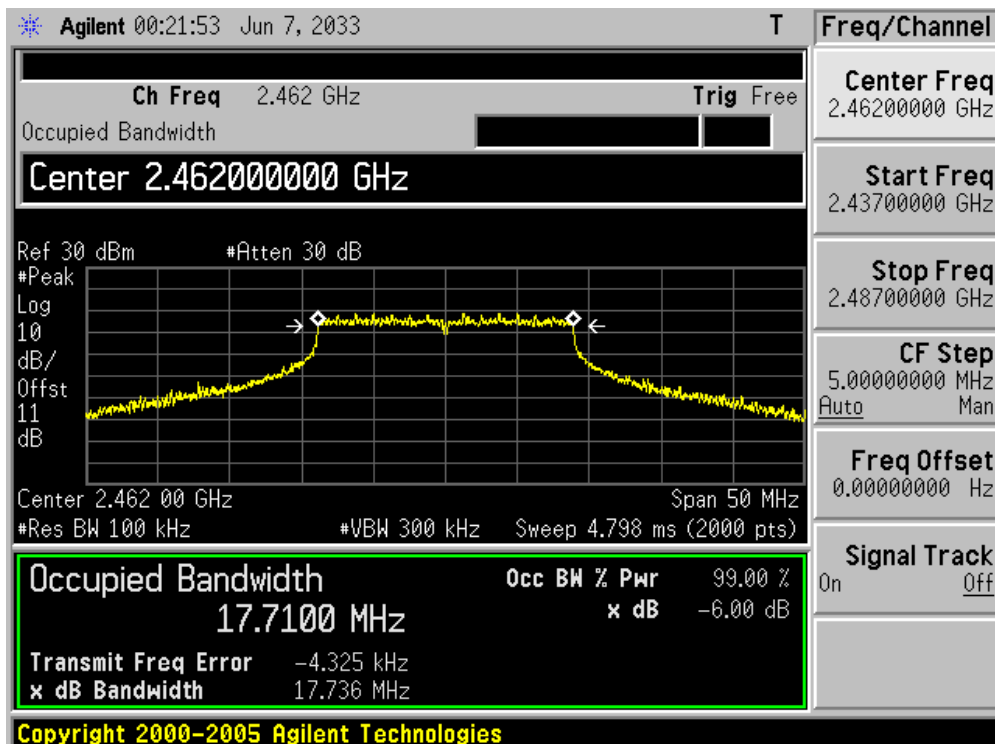
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17722	500	Pass
06	2437	17748	500	Pass
11	2462	17736	500	Pass

Channel 01 (2412MHz)

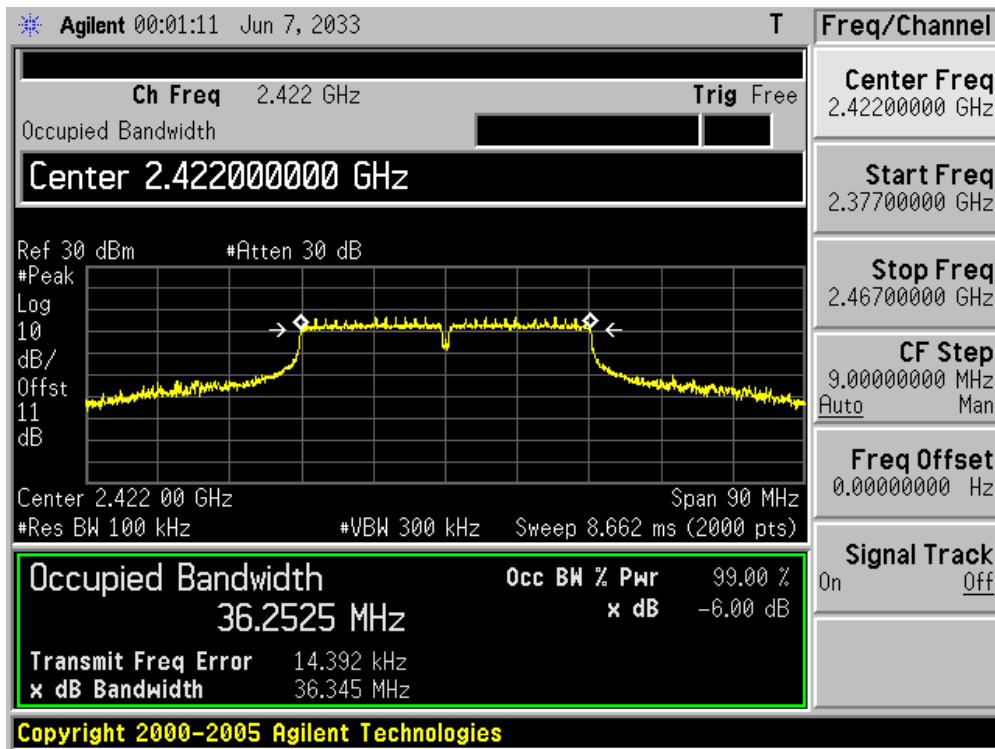


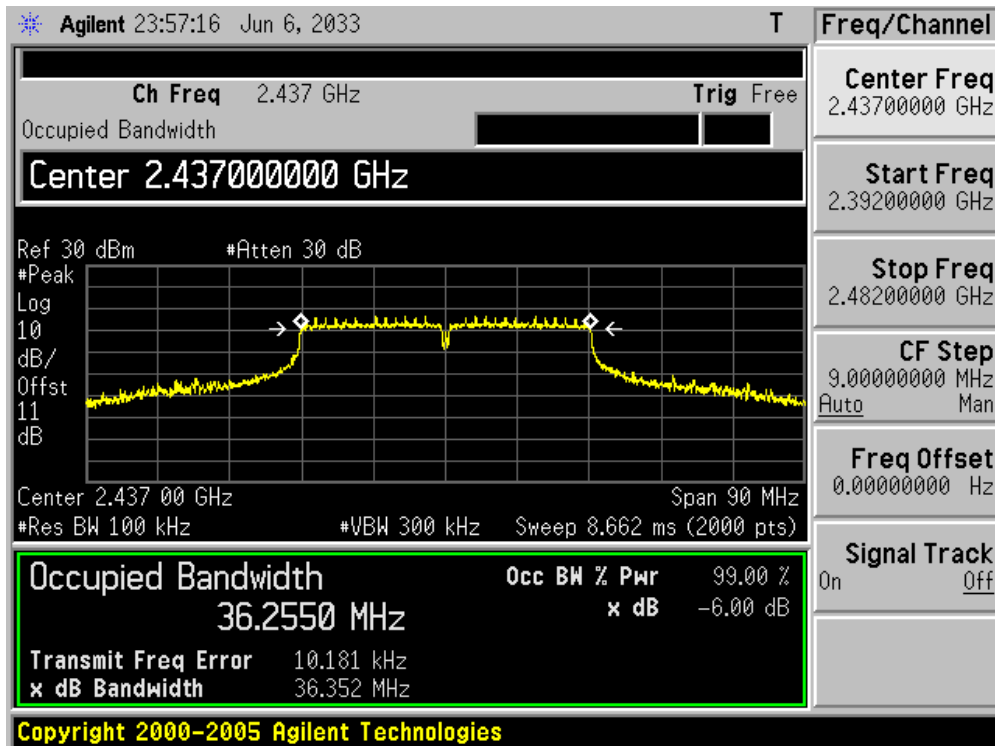
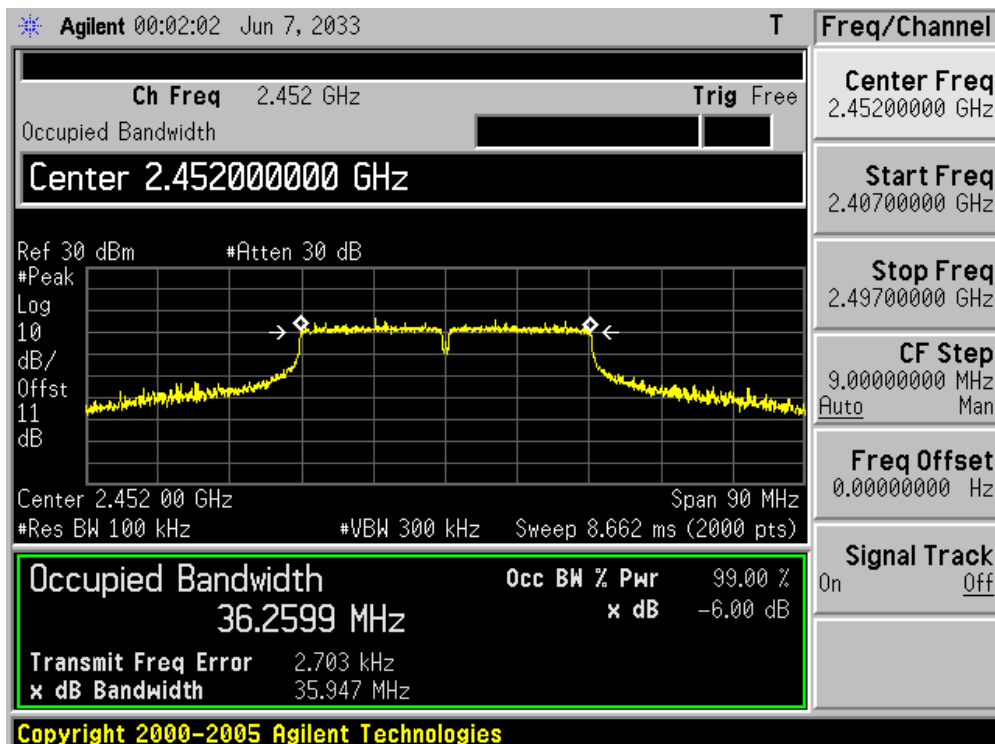
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 100)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36345	500	Pass
06	2437	36352	500	Pass
09	2452	35947	500	Pass

Channel 03 (2422MHz)

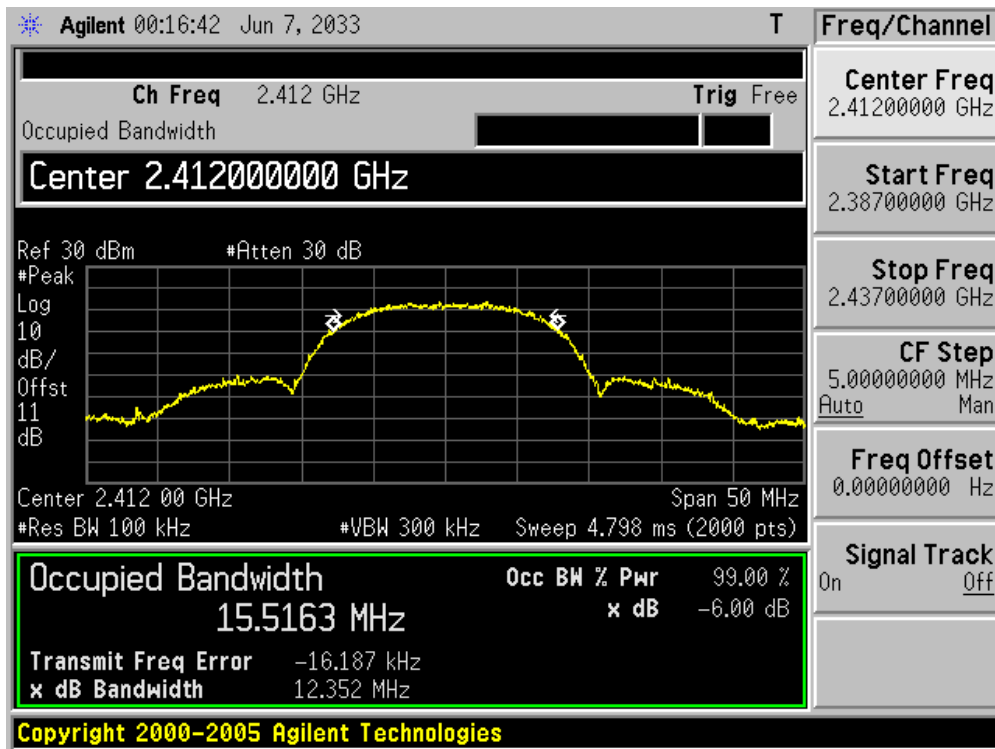


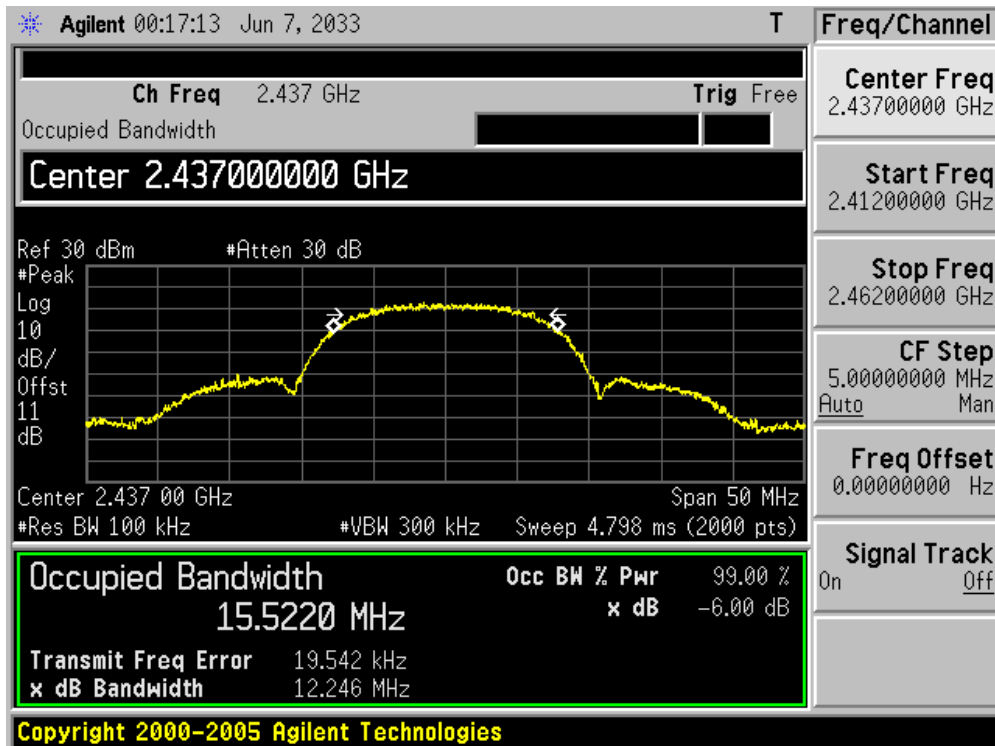
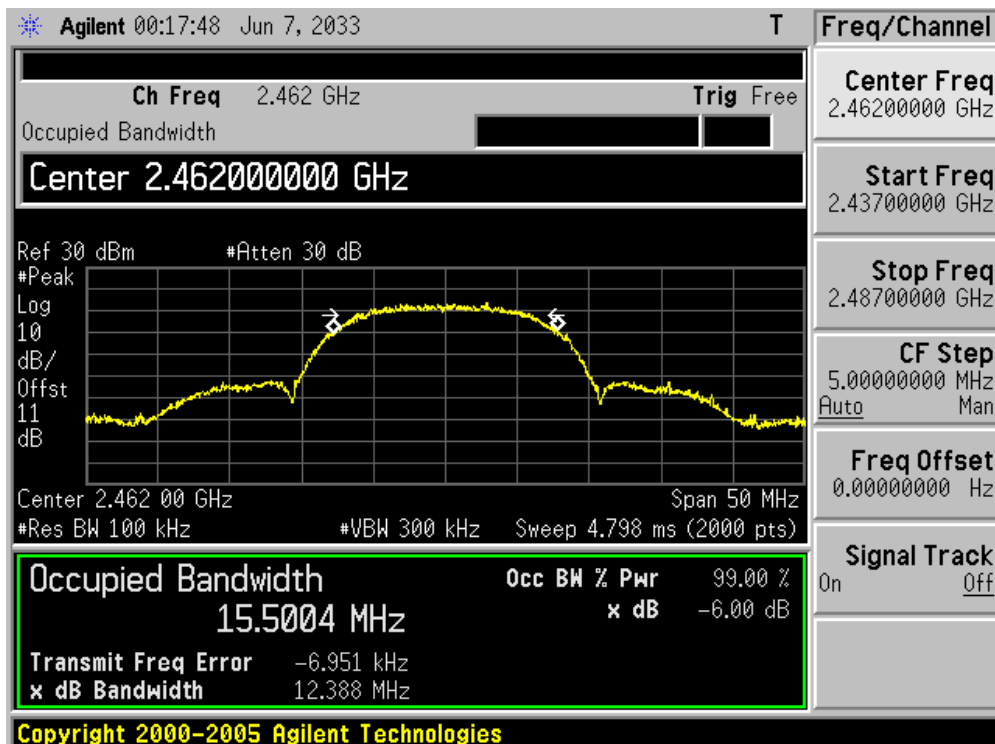
Channel 06 (2437MHz)

Channel 09 (2452MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12352	500	Pass
06	2437	12246	500	Pass
11	2462	12388	500	Pass

Channel 01 (2412MHz)

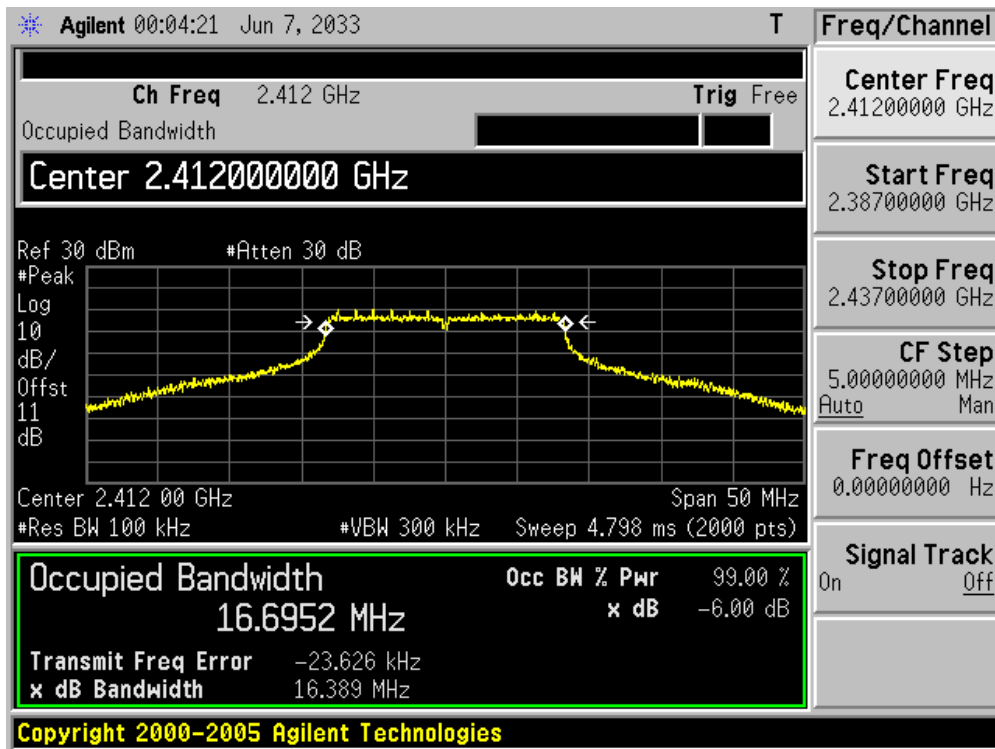


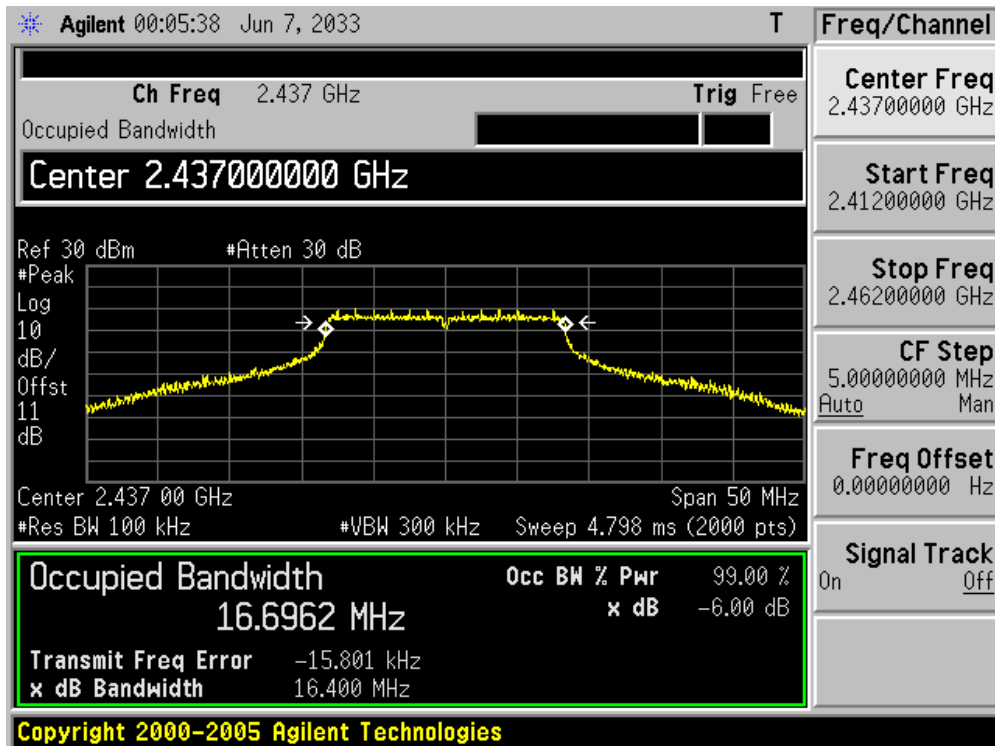
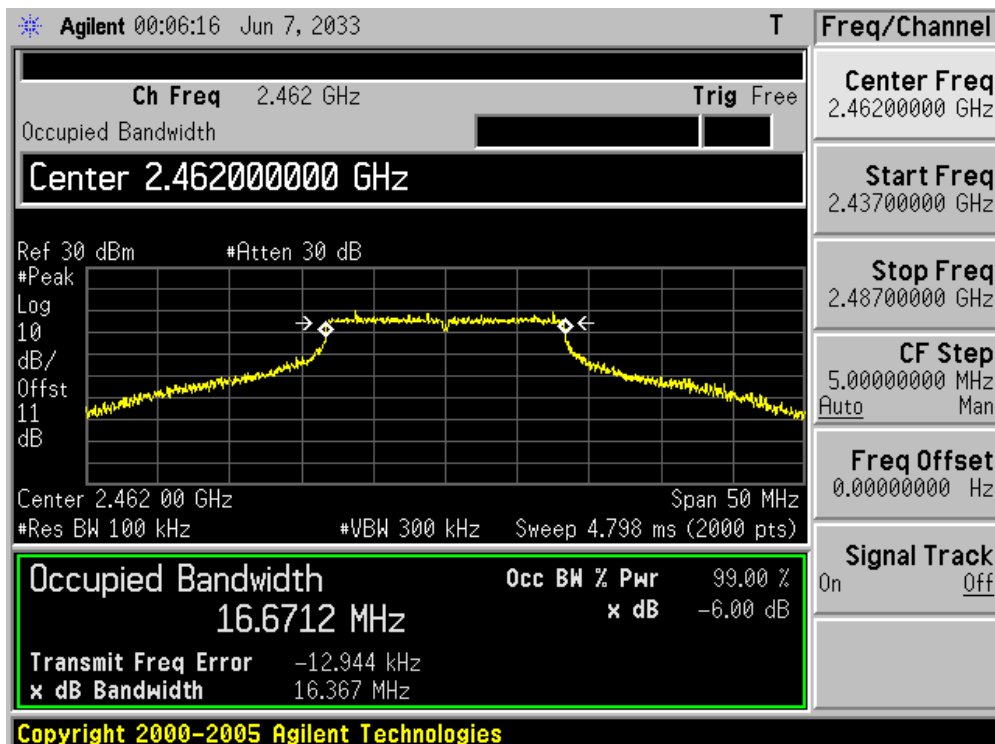
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16389	500	Pass
06	2437	16400	500	Pass
11	2462	16367	500	Pass

Channel 01 (2412MHz)

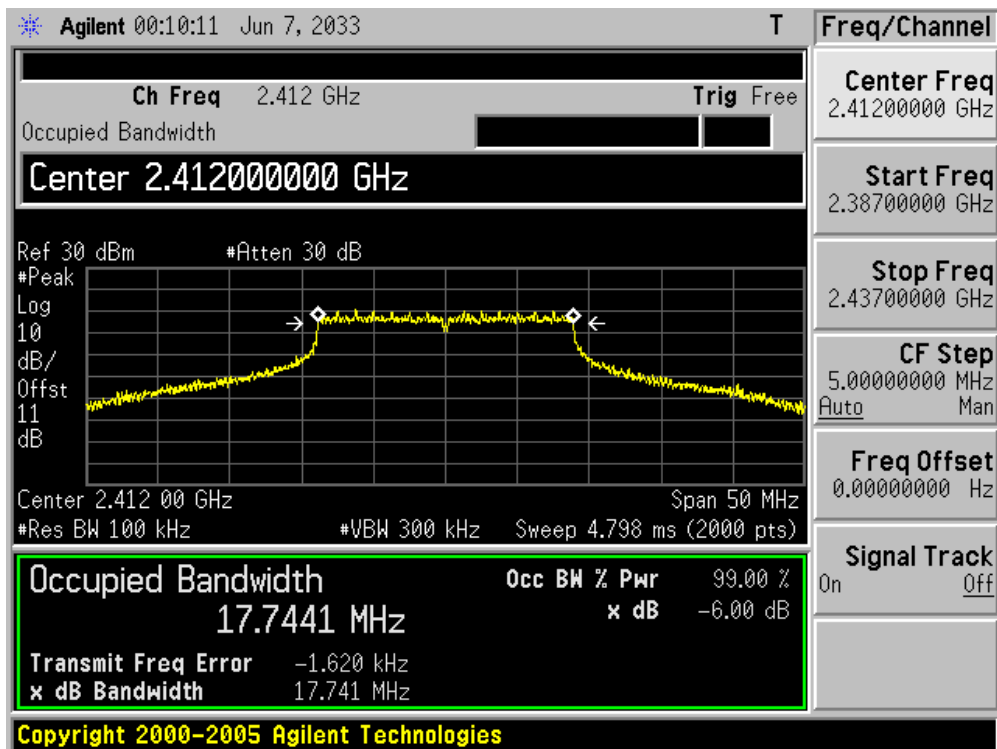


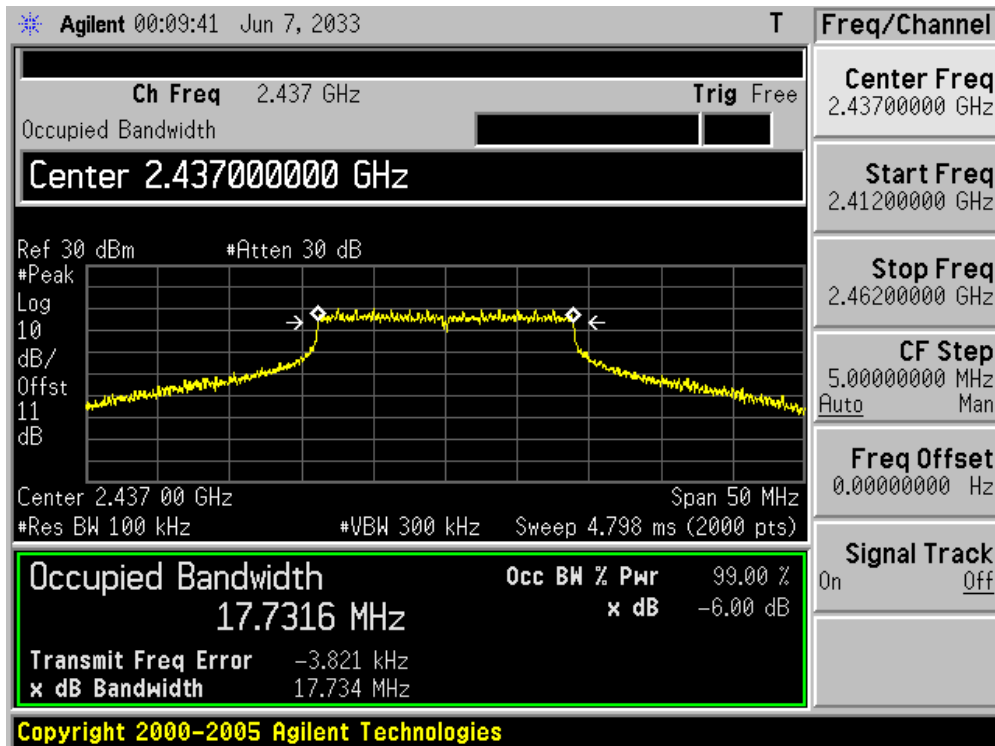
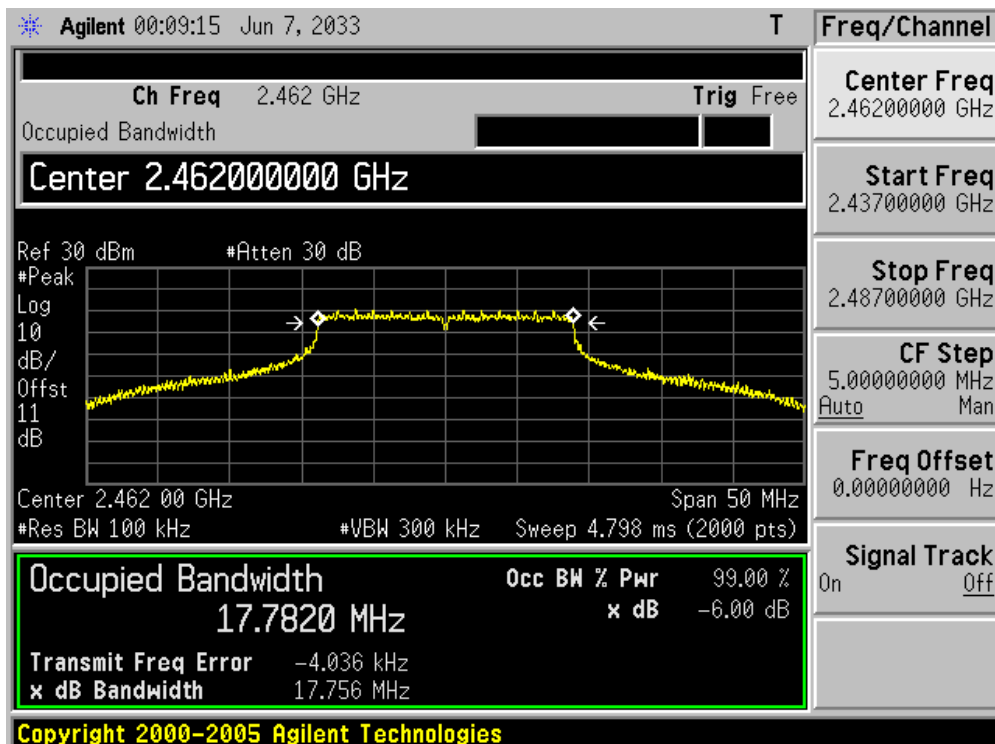
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17741	500	Pass
06	2437	17734	500	Pass
11	2462	17756	500	Pass

Channel 01 (2412MHz)

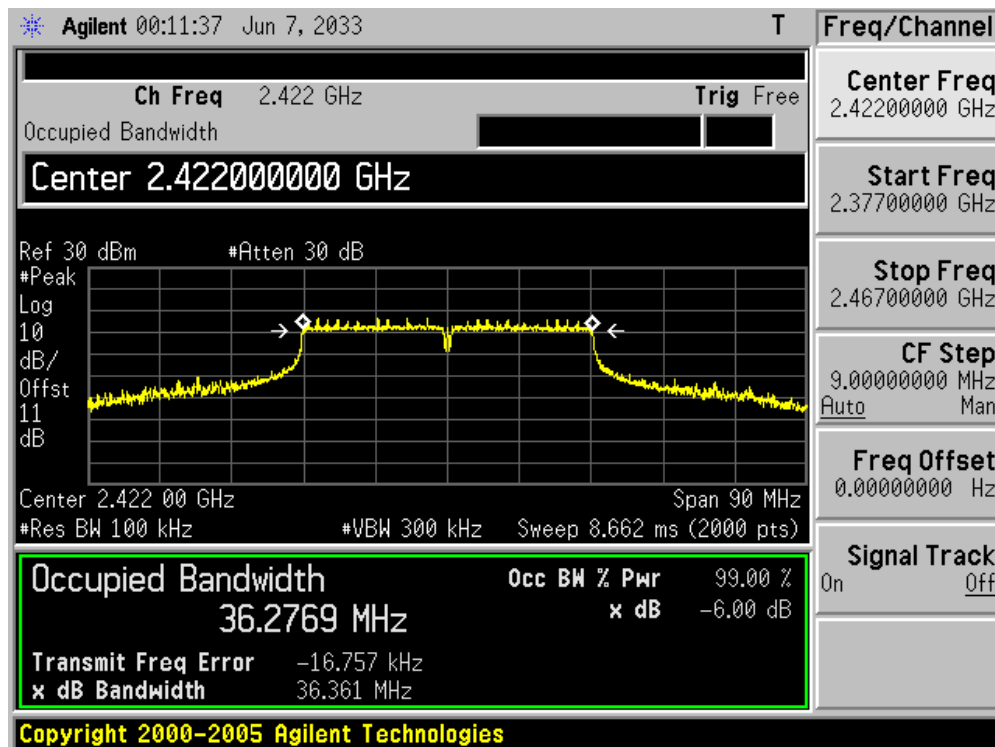


Channel 06 (2437MHz)

Channel 11 (2462MHz)


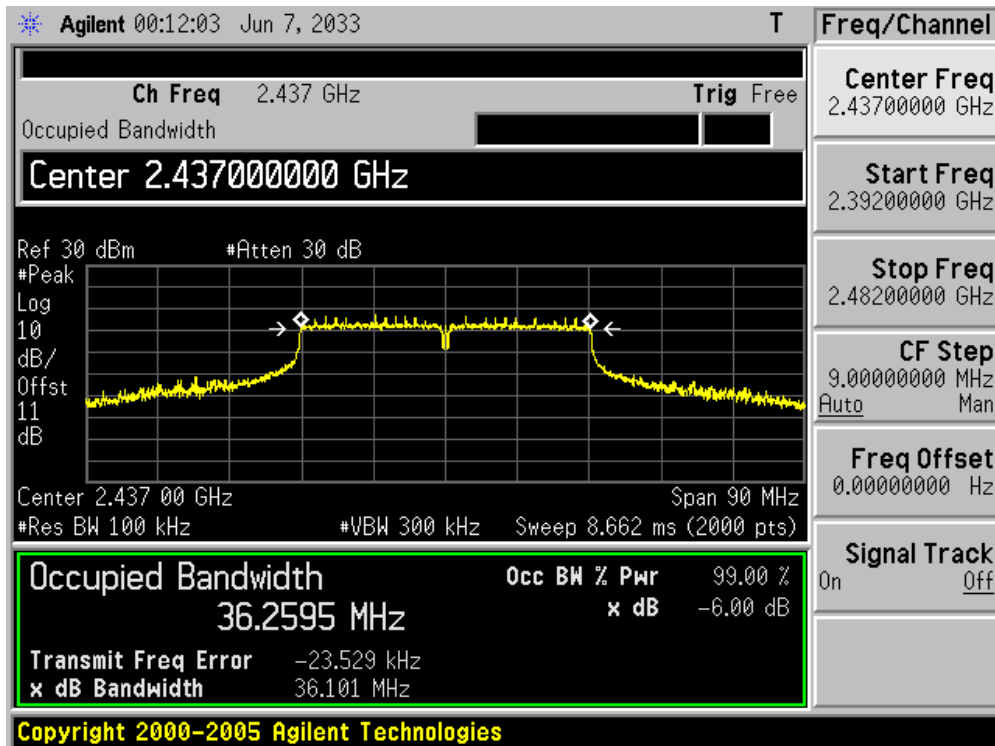
Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	6dB Occupied Bandwidth
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 010)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36361	500	Pass
06	2437	36101	500	Pass
09	2452	35959	500	Pass

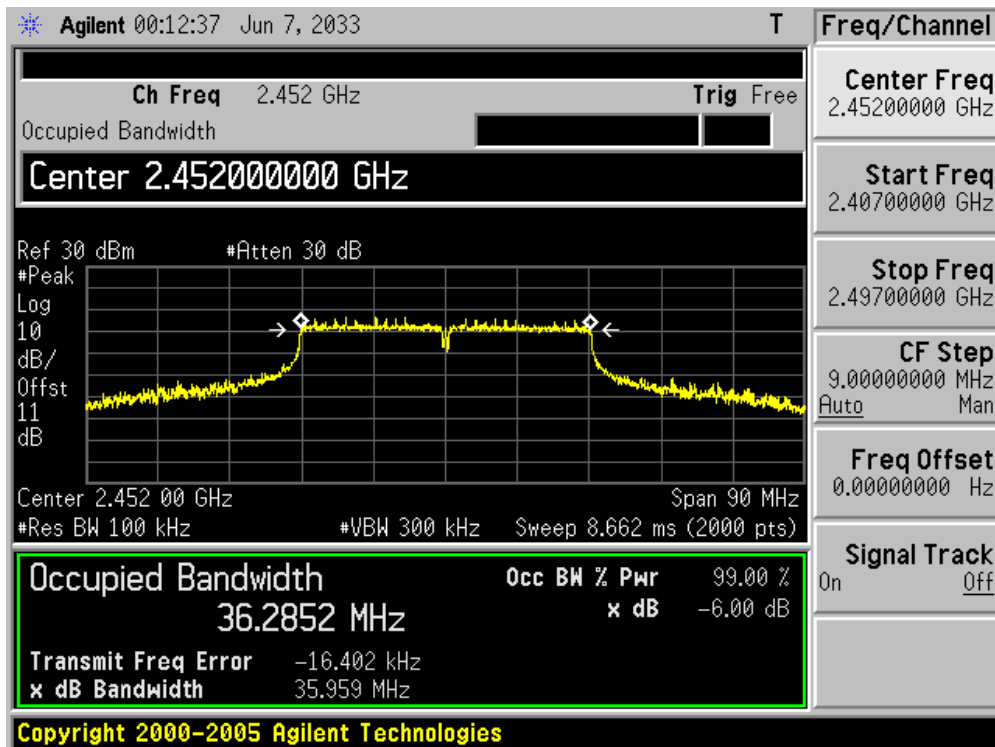
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



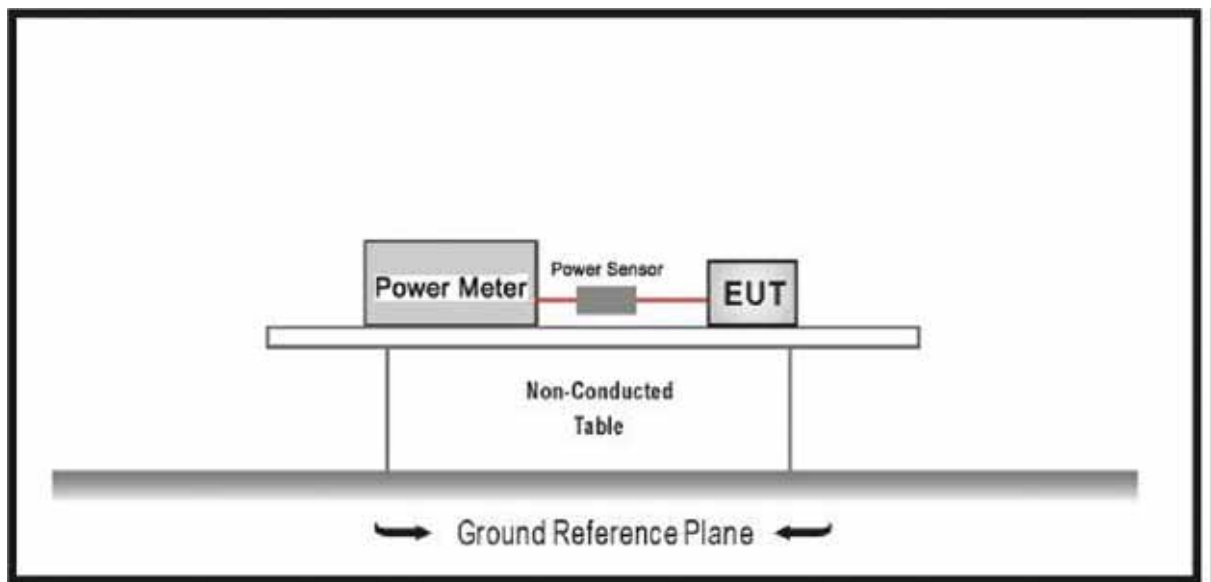
9. Power Output

9.1. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

9.2. Test Setup



9.3. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Use the broadband peak RF power meter to test peak power and record the result.

9.4. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)					
		802.11b	802.11g	20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6.5	7.2	13.5	15.0
1	1	2	9	13.0	14.4	27.0	30.0
2	1	5.5	12	19.5	21.7	40.5	45.0
3	1	11	18	26.0	28.9	54.0	60.0
4	1	---	24	39.0	43.3	81.0	90.0
5	1	---	36	52.0	57.8	108.0	120.0
6	1	---	48	58.5	65.0	121.5	135.0
7	1	---	54	65.0	72.2	135.0	150.0
8	2	---	---	13.0	14.4	27.0	30.0
9	2	---	---	26.0	28.9	54.0	60.0
10	2	---	---	39.0	43.3	81.0	90.0
11	2	---	---	52.0	57.8	108.0	120.0
12	2	---	---	78.0	86.7	162.0	180.0
13	2	---	---	104.0	115.6	216.0	240.0
14	2	---	---	117.0	130.0	243.0	270.0
15	2	---	---	130.0	144.0	270.0	300.0

Power output at various data rates:

Test Mode	Bandwidth	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b(Ant 010)	20	2437	6	1	24.67
				5.5	24.68
				11	24.71
802.11g(Ant 010)	20	2437	6	6	26.92
				24	26.94
				54	26.96
802.11n(Ant 010)	20	2437	6	MCS0	26.75
				MCS4	26.80
				MCS7	26.95
802.11n(Ant 010)	40	2437	6	MCS0	26.54
				MCS4	26.61
				MCS7	26.84

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	25.01	N/A	25.01	28.00	Pass
6	2437	24.90	N/A	24.90	28.00	Pass
11	2462	25.05	N/A	25.05	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 010)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	N/A	24.91	24.91	28.00	Pass
6	2437	N/A	24.68	24.68	28.00	Pass
11	2462	N/A	25.00	25.00	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	27.15	N/A	27.15	28.00	Pass
6	2437	27.09	N/A	27.09	28.00	Pass
11	2462	27.02	N/A	27.02	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 010)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	N/A	27.19	27.19	28.00	Pass
6	2437	N/A	26.96	26.96	28.00	Pass
11	2462	N/A	27.02	27.02	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	27.01	N/A	27.01	28.00	Pass
6	2437	26.95	N/A	26.95	28.00	Pass
11	2462	26.77	N/A	26.77	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 010)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	N/A	27.11	27.11	28.00	Pass
6	2437	N/A	26.80	26.80	28.00	Pass
11	2462	N/A	26.94	26.94	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 110)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
1	2412	23.92	23.85	26.90	28.00	Pass
6	2437	23.86	24.09	26.99	28.00	Pass
11	2462	23.71	23.92	26.83	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 100)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
3	2422	27.12	N/A	27.12	28.00	Pass
6	2437	27.11	N/A	27.11	28.00	Pass
9	2452	26.93	N/A	26.93	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 010)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
3	2422	N/A	26.91	26.91	28.00	Pass
6	2437	N/A	26.84	26.84	28.00	Pass
9	2452	N/A	26.95	26.95	28.00	Pass

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Output
Test Site	:	TR8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 110)

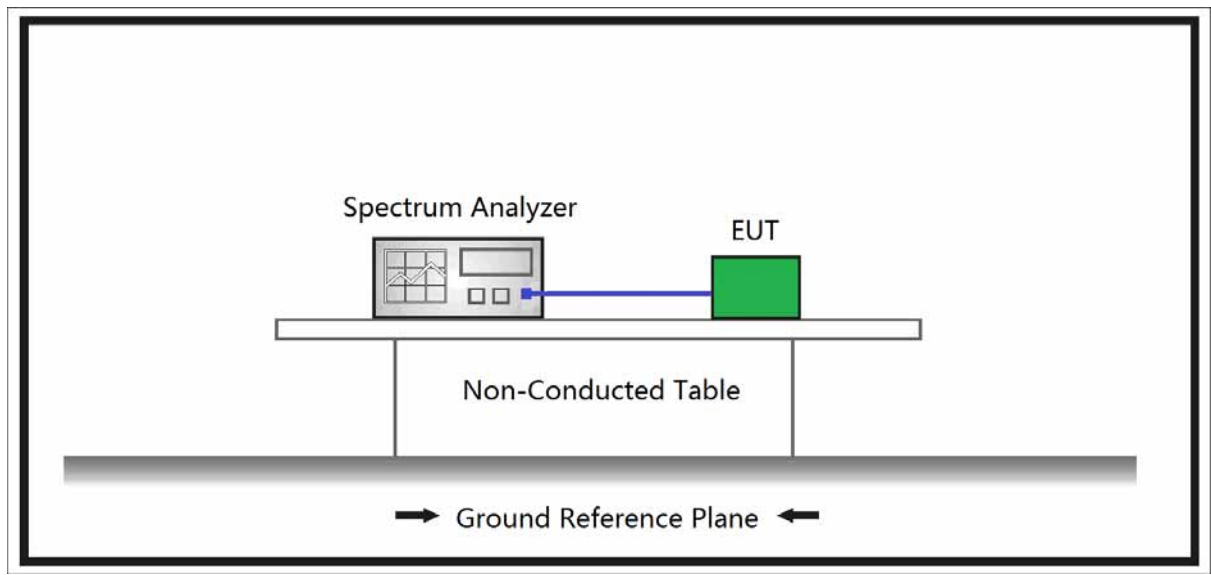
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
3	2422	23.45	23.94	26.71	28.00	Pass
6	2437	23.47	23.92	26.71	28.00	Pass
9	2452	23.42	23.98	26.72	28.00	Pass

10. Power Spectral Density

10.1. Limit

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

10.2. Test Setup



10.3. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

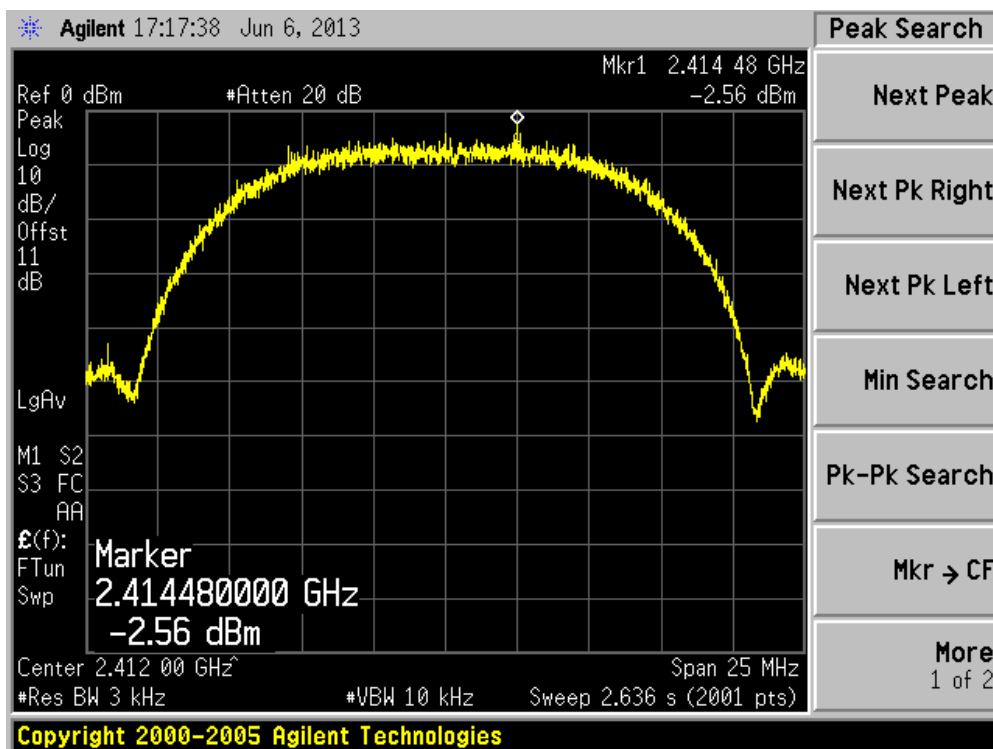
Set analyzer center frequency to DTS channel center frequency, the span to 1.5 times the DTS channel bandwidth, RBW 3 kHz, Set VBW 3 * RBW, Sweep time = auto couple, Detector = peak, Trace mode = max hold, Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level. If measured value exceed limit reduce RBW (no less than 3kHz) and repeat.

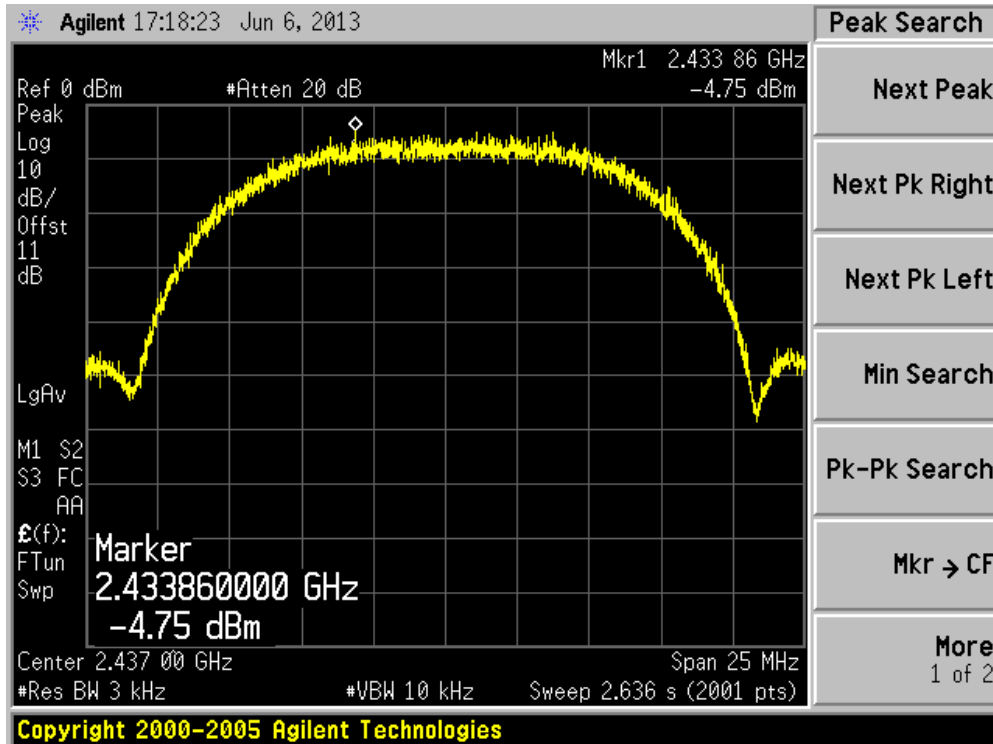
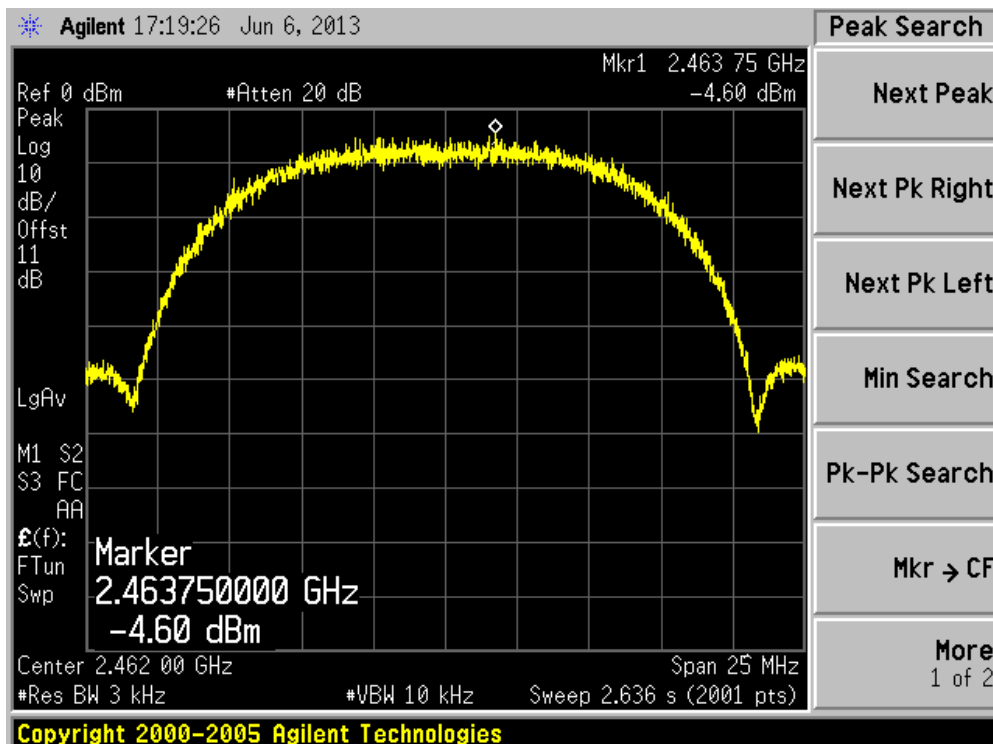
10.4. Test Result

Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	-2.56	N/A	-2.56	8	Pass
06	2437	-4.75	N/A	-4.75	8	Pass
11	2462	-4.60	N/A	-4.60	8	Pass

Channel 01 (2412MHz)

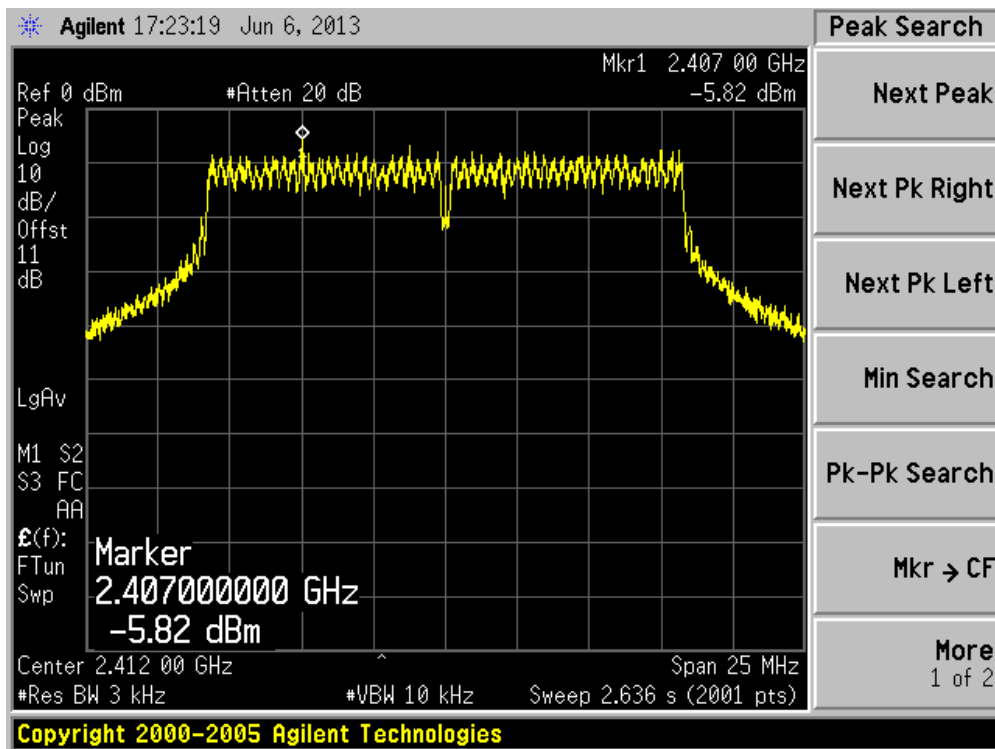


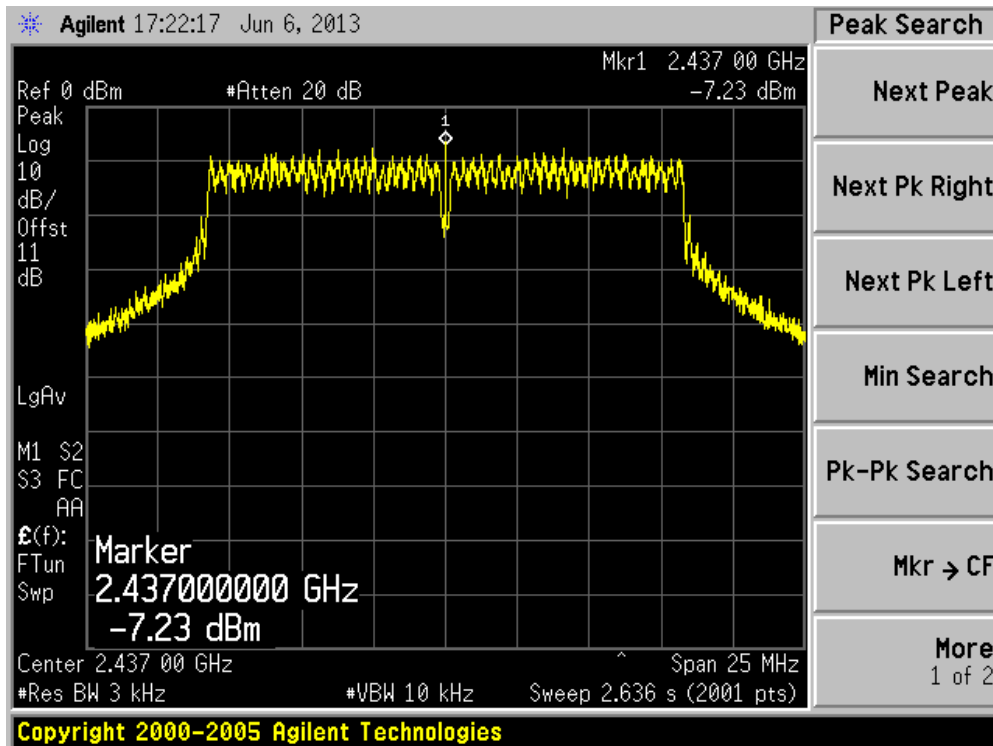
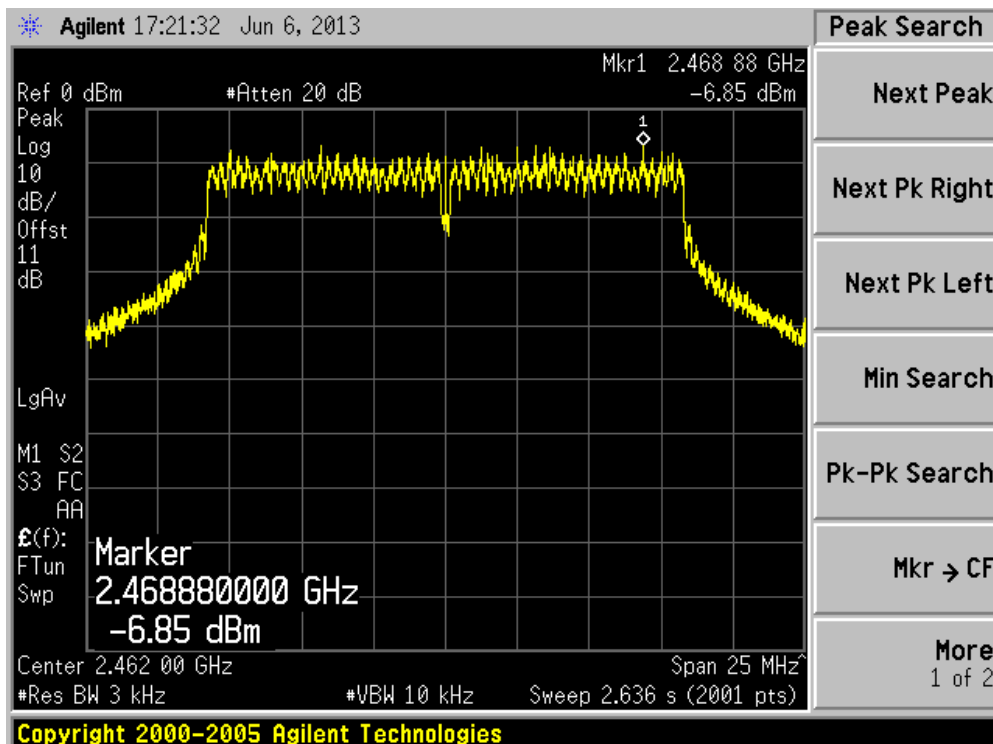
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	-5.82	N/A	-5.82	8	Pass
06	2437	-7.23	N/A	-7.23	8	Pass
11	2462	-6.85	N/A	-6.85	8	Pass

Channel 01 (2412MHz)

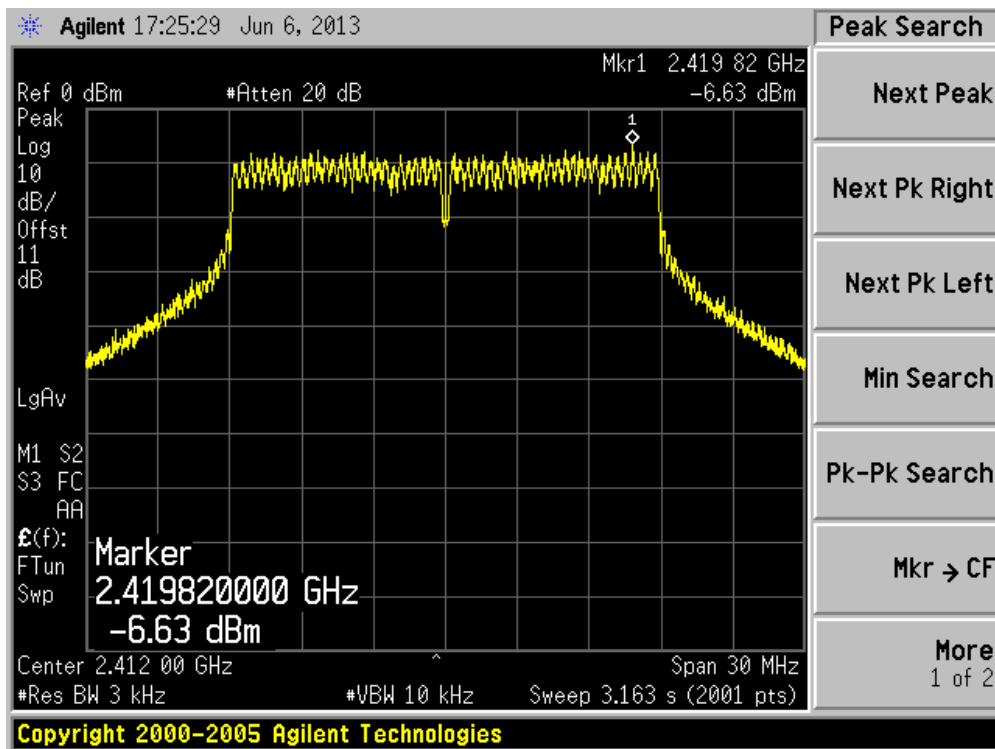


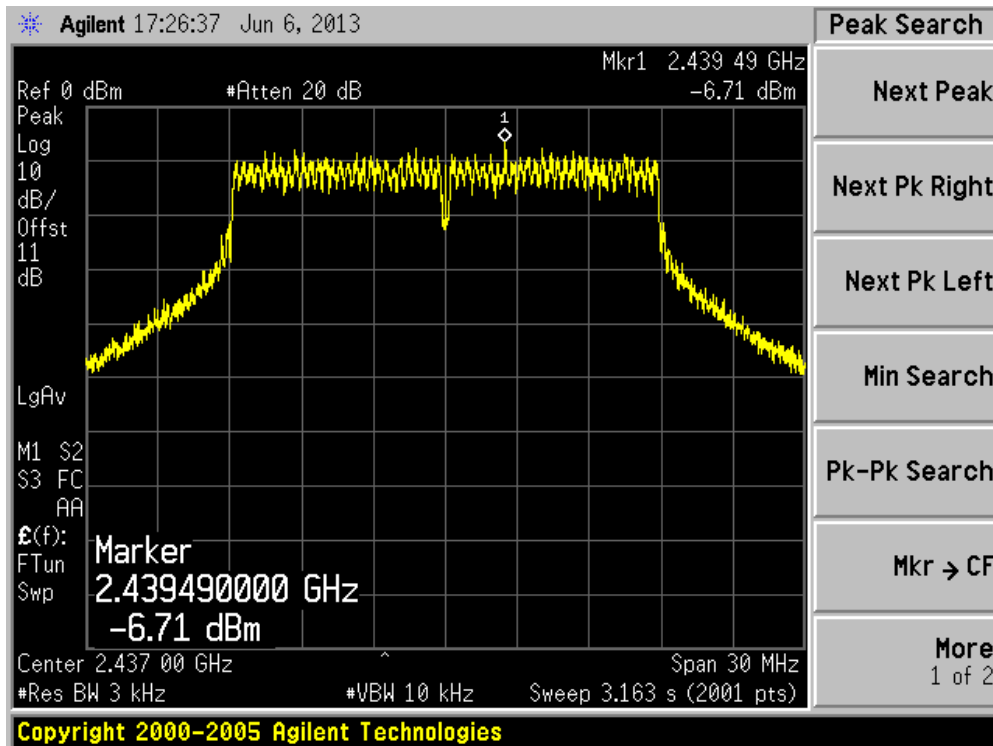
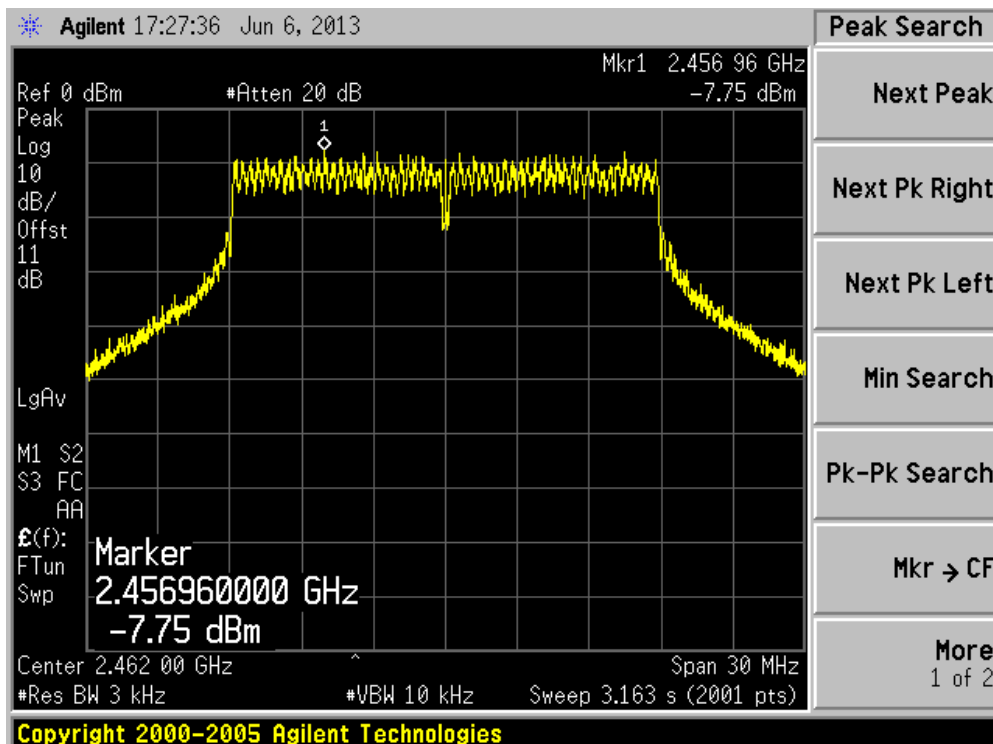
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	-6.63	N/A	-6.63	8	Pass
06	2437	-6.71	N/A	-6.71	8	Pass
11	2462	-7.75	N/A	-7.75	8	Pass

Channel 01 (2412MHz)

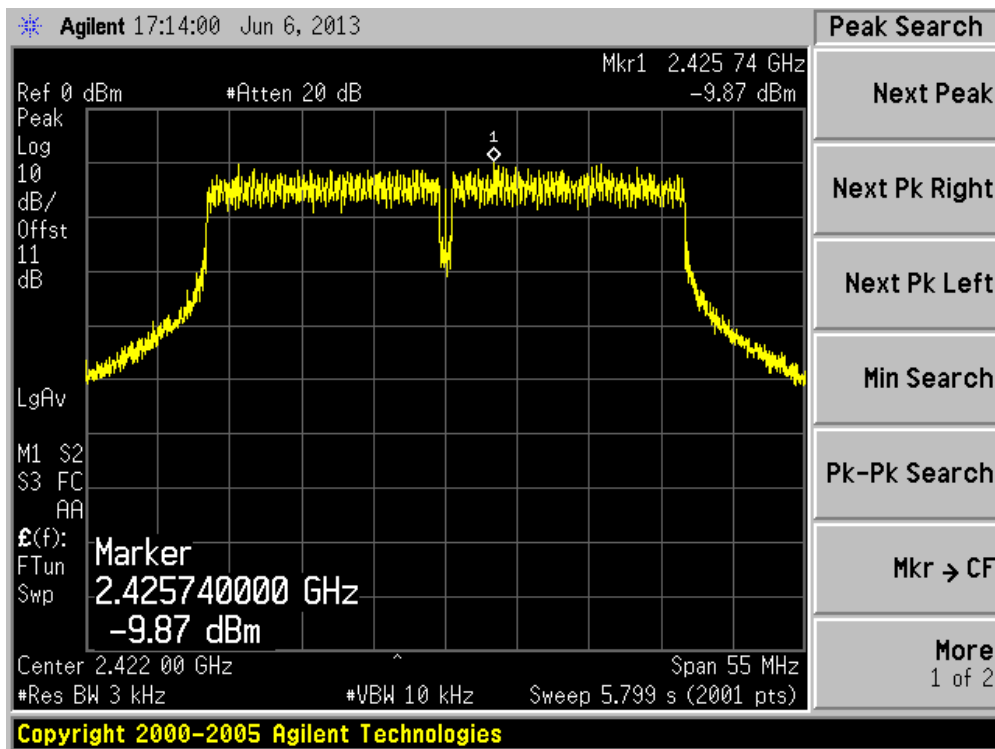


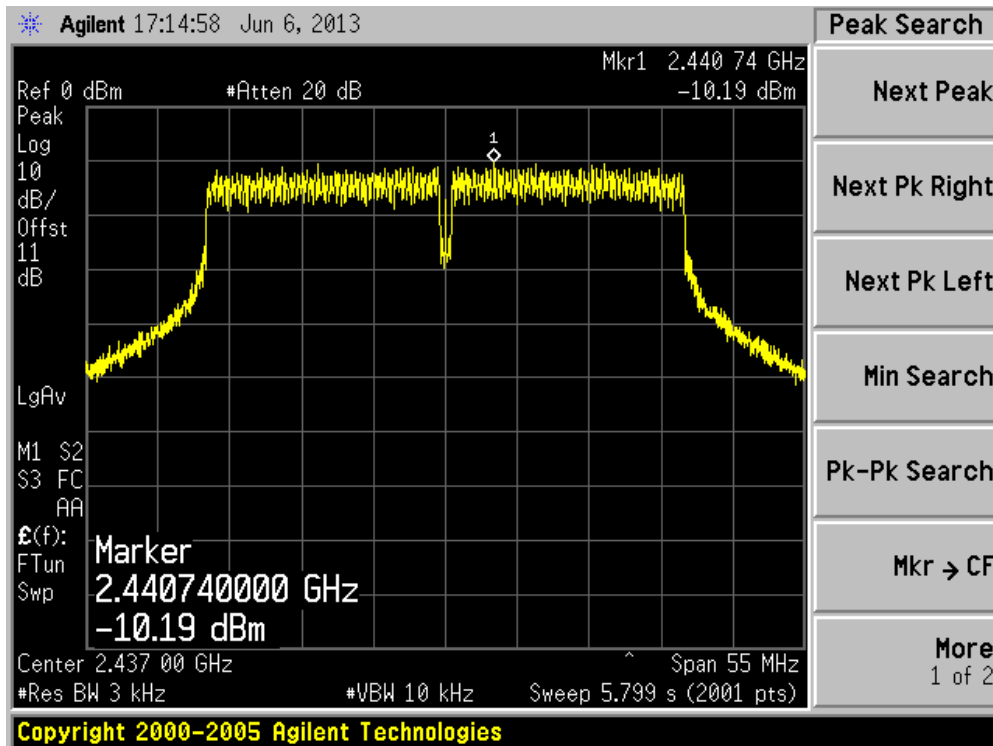
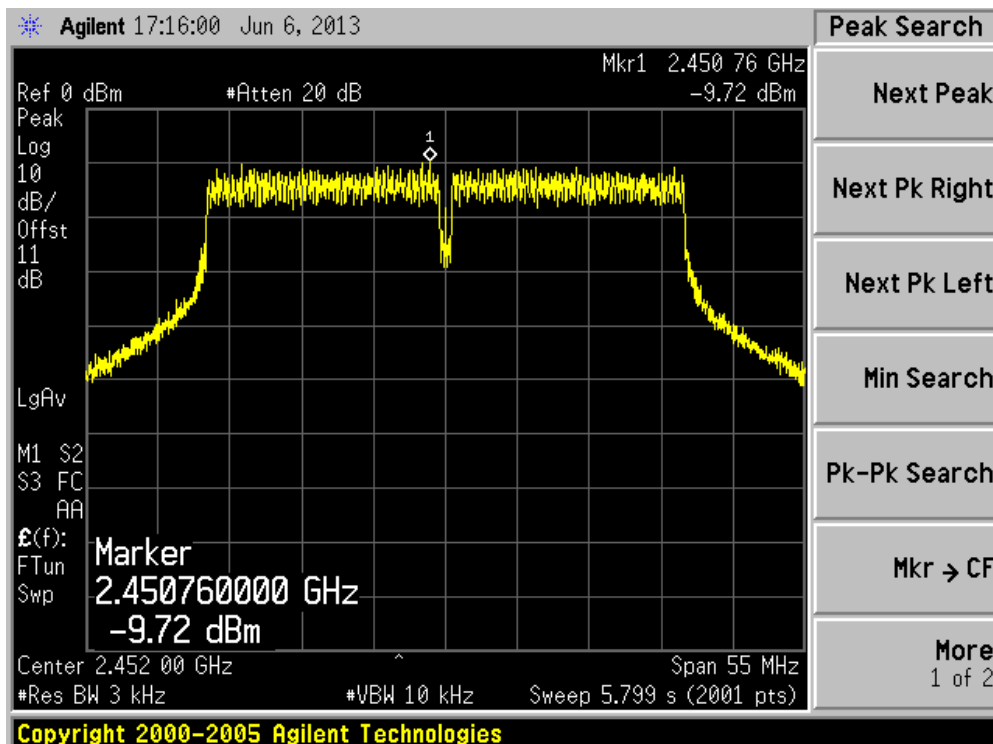
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 100)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
03	2422	-9.87	N/A	-9.87	8	Pass
06	2437	-10.19	N/A	-10.19	8	Pass
09	2452	-9.72	N/A	-9.72	8	Pass

Channel 03 (2422MHz)

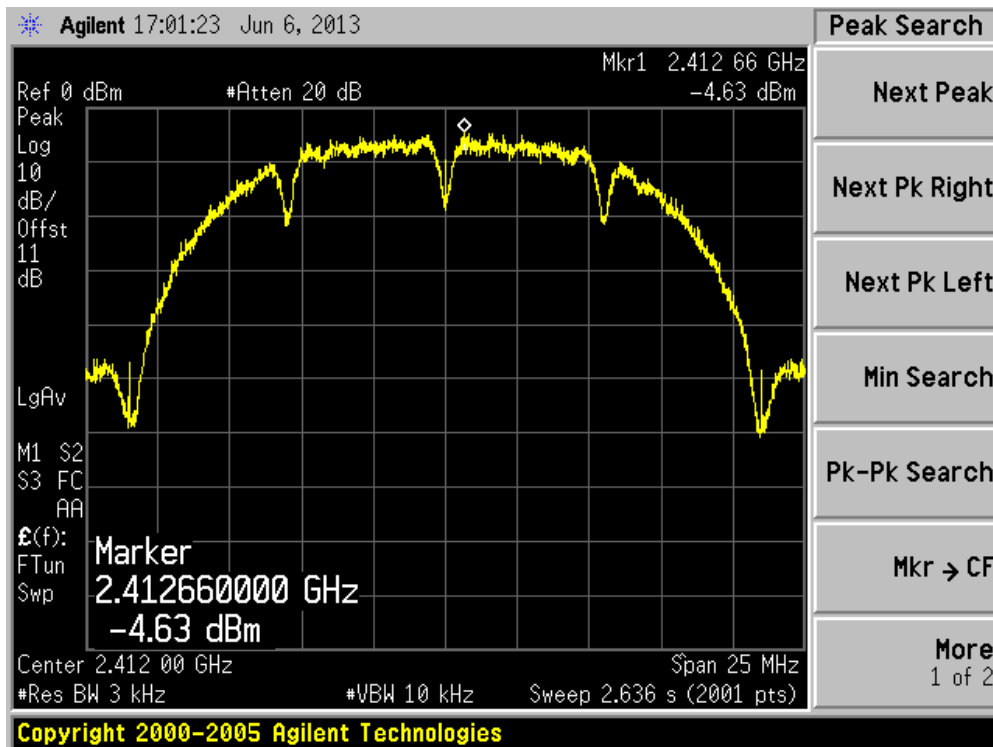


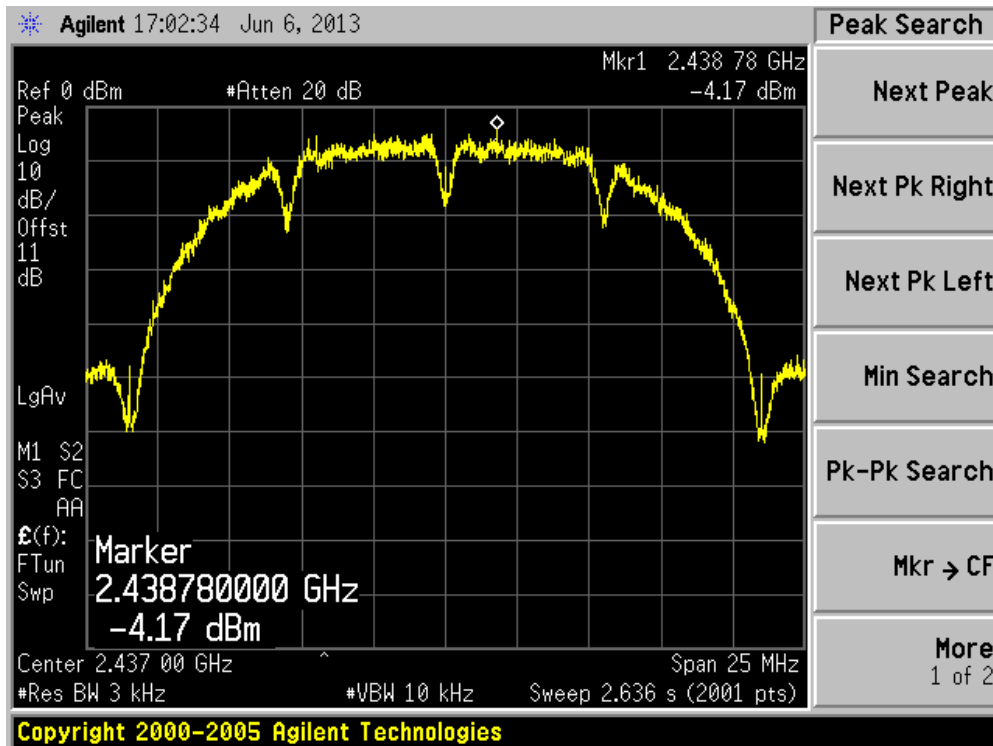
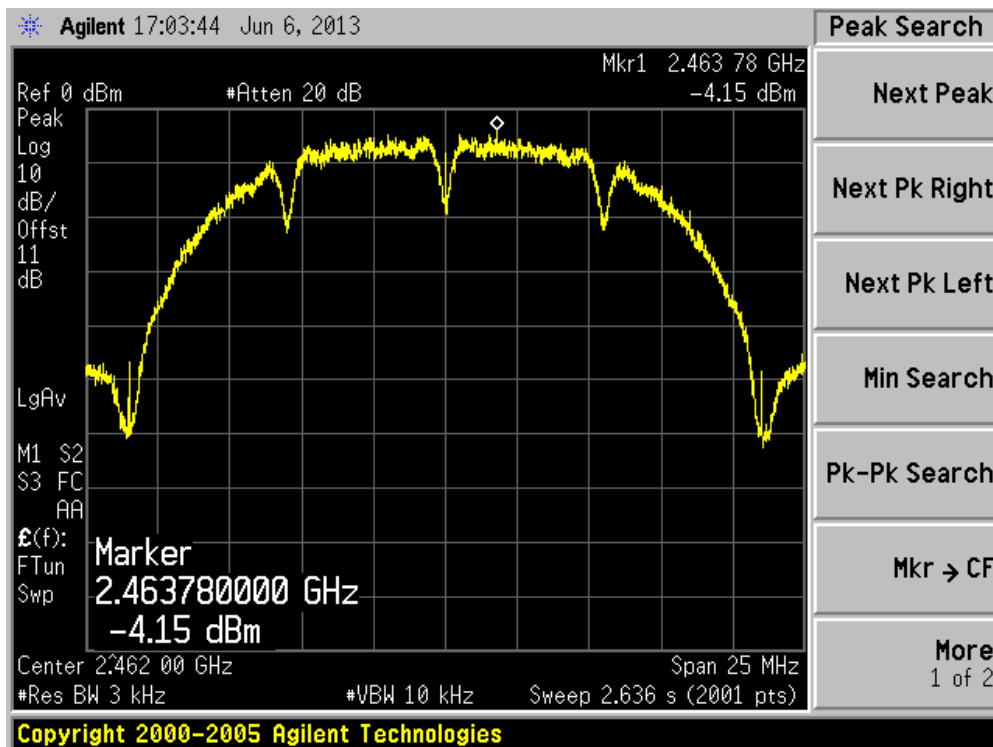
Channel 06 (2437MHz)

Channel 09 (2452MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 1: Transmit by 802.11b (Ant 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	N/A	-4.63	-4.63	8	Pass
06	2437	N/A	-4.17	-4.17	8	Pass
11	2462	N/A	-4.15	-4.15	8	Pass

Channel 01 (2412MHz)

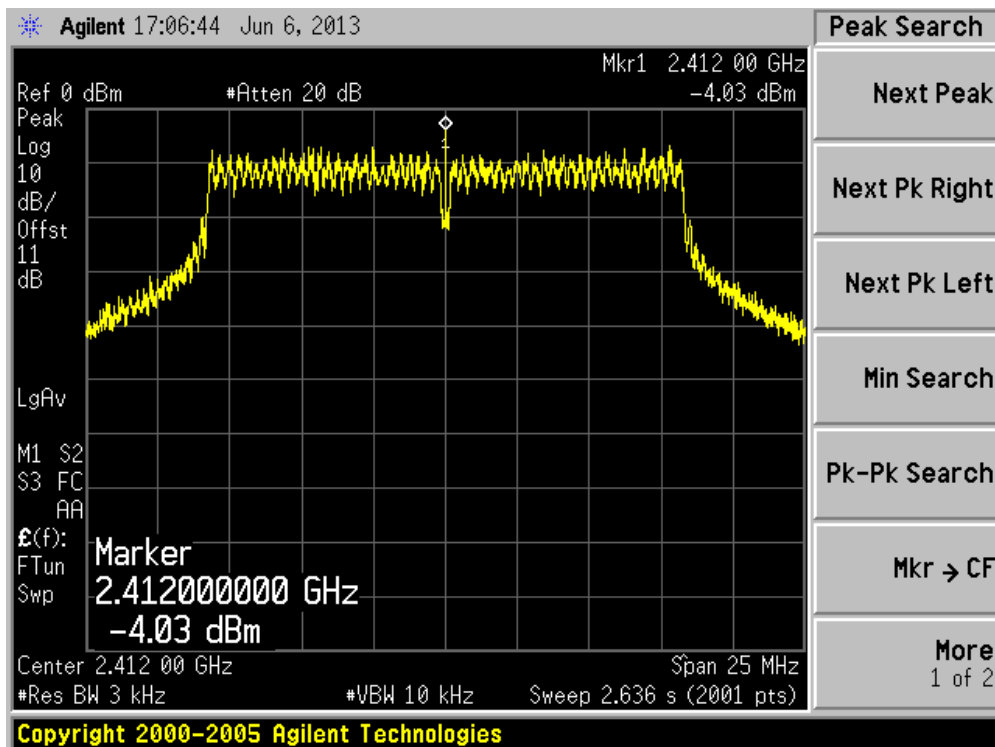


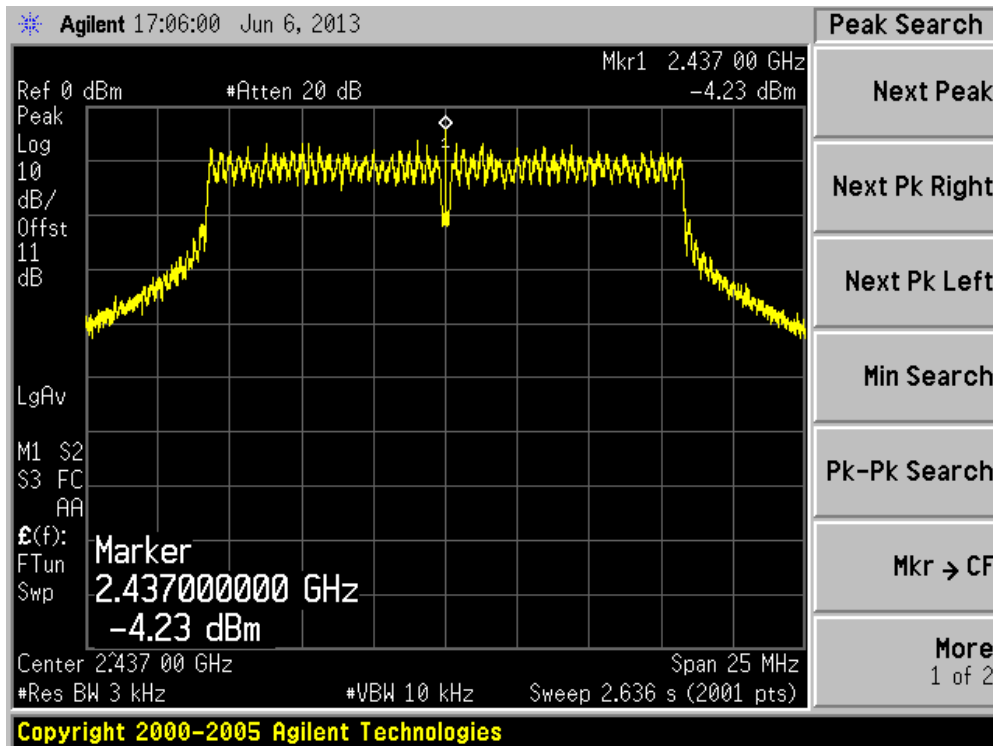
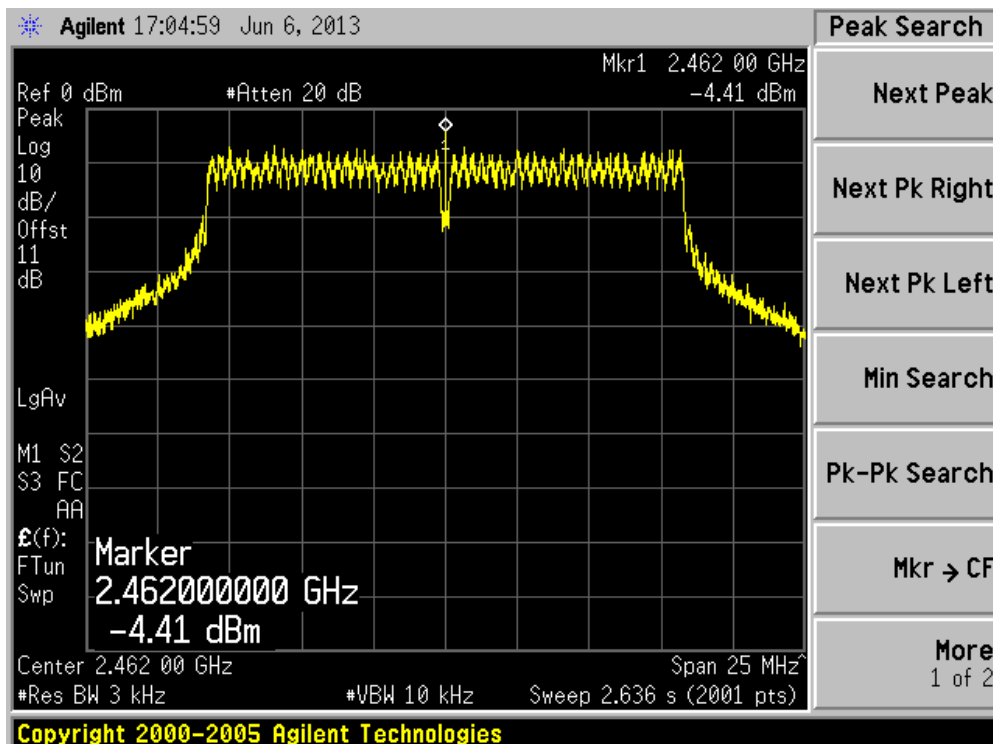
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 2: Transmit by 802.11g (Ant 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	N/A	-4.03	-4.03	8	Pass
06	2437	N/A	-4.23	-4.23	8	Pass
11	2462	N/A	-4.41	-4.41	8	Pass

Channel 01 (2412MHz)

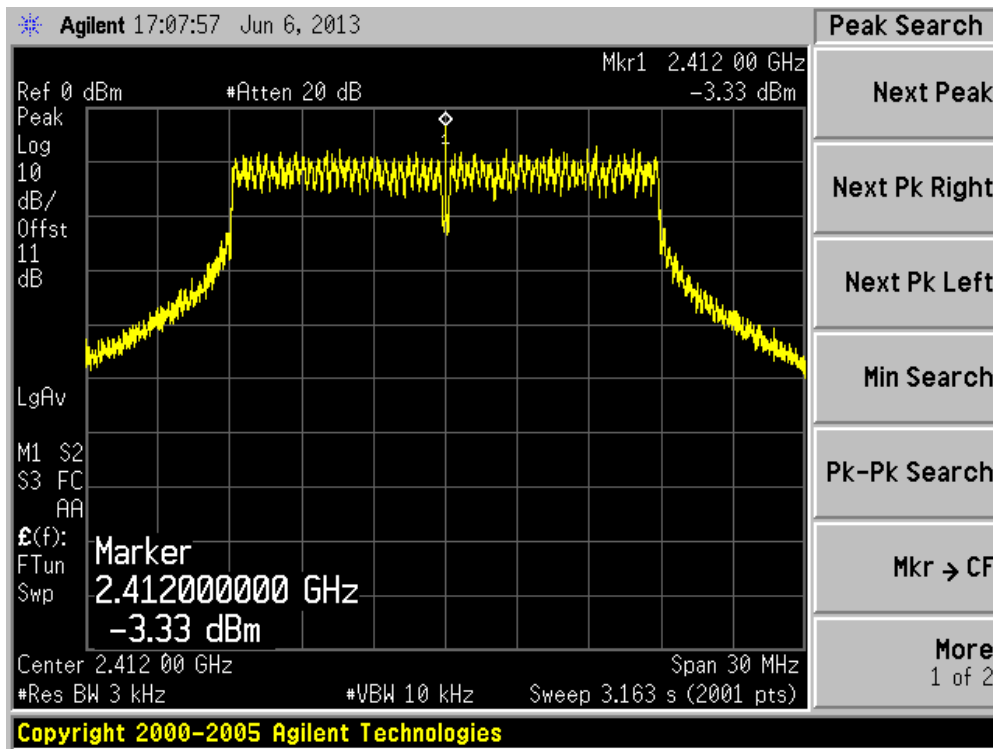


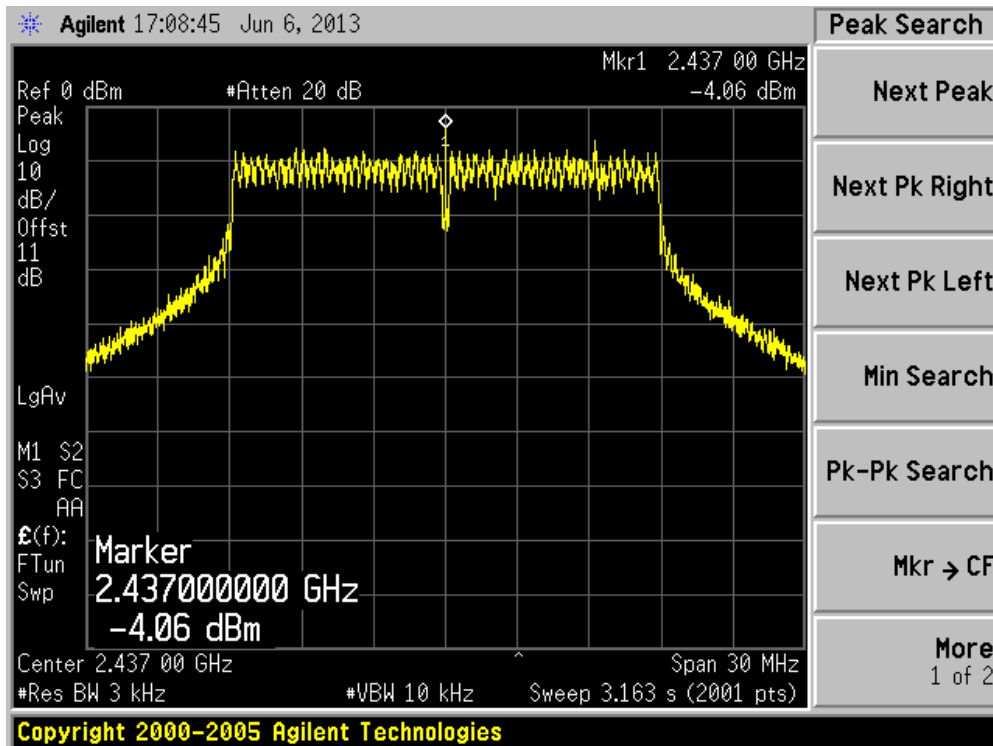
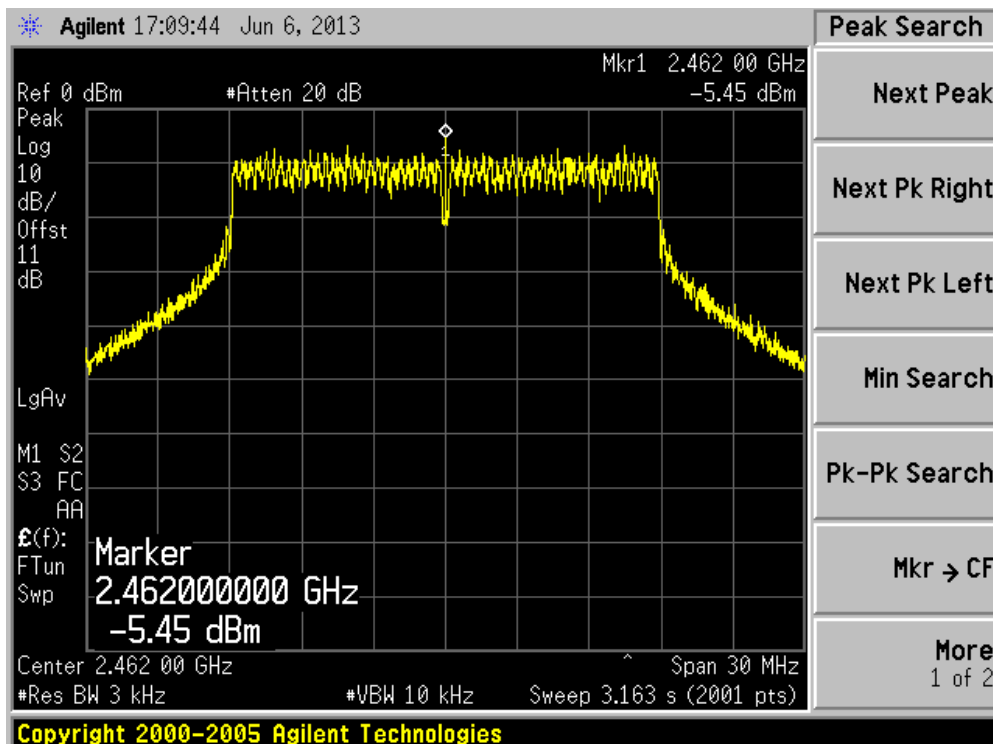
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	N/A	-3.33	-3.33	8	Pass
06	2437	N/A	-4.06	-4.06	8	Pass
11	2462	N/A	-5.45	-5.45	8	Pass

Channel 01 (2412MHz)

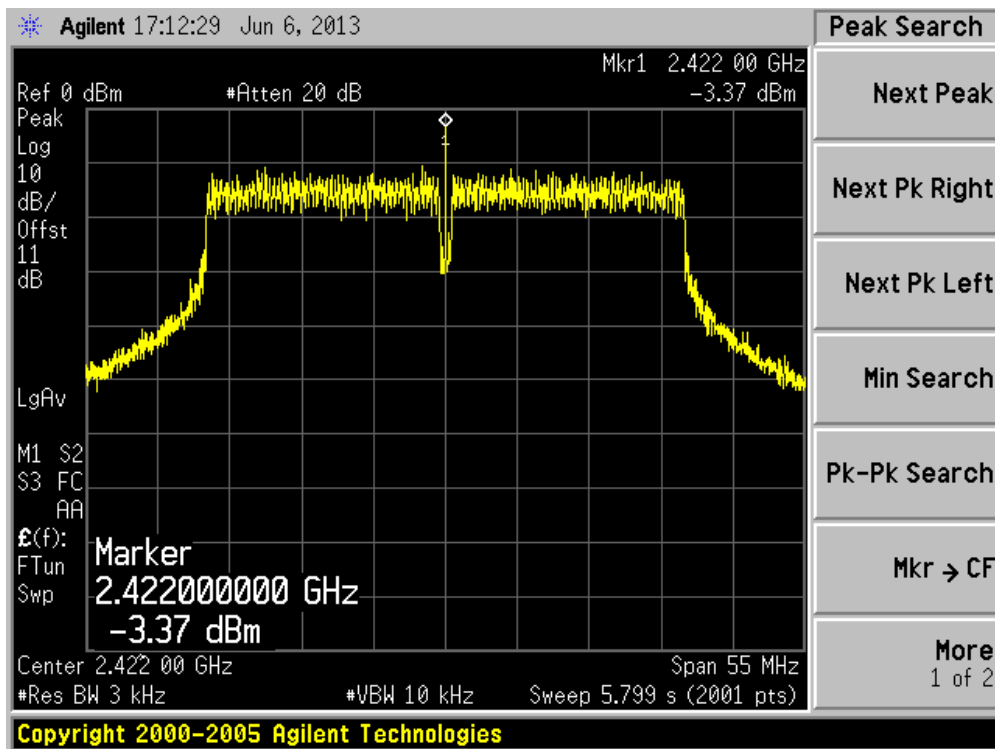


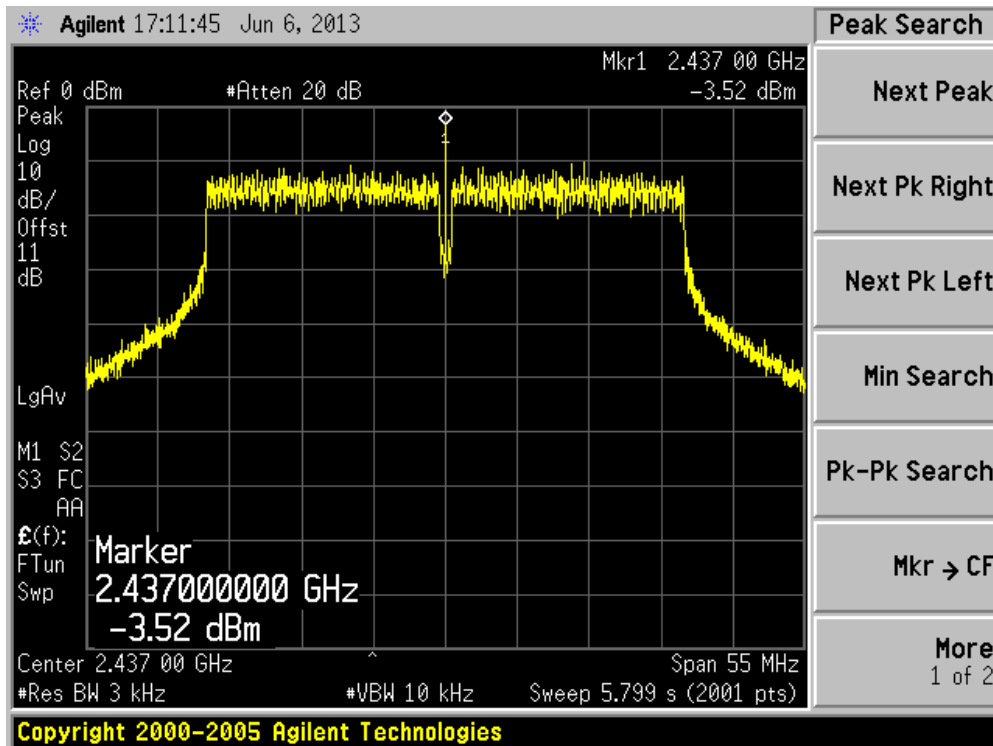
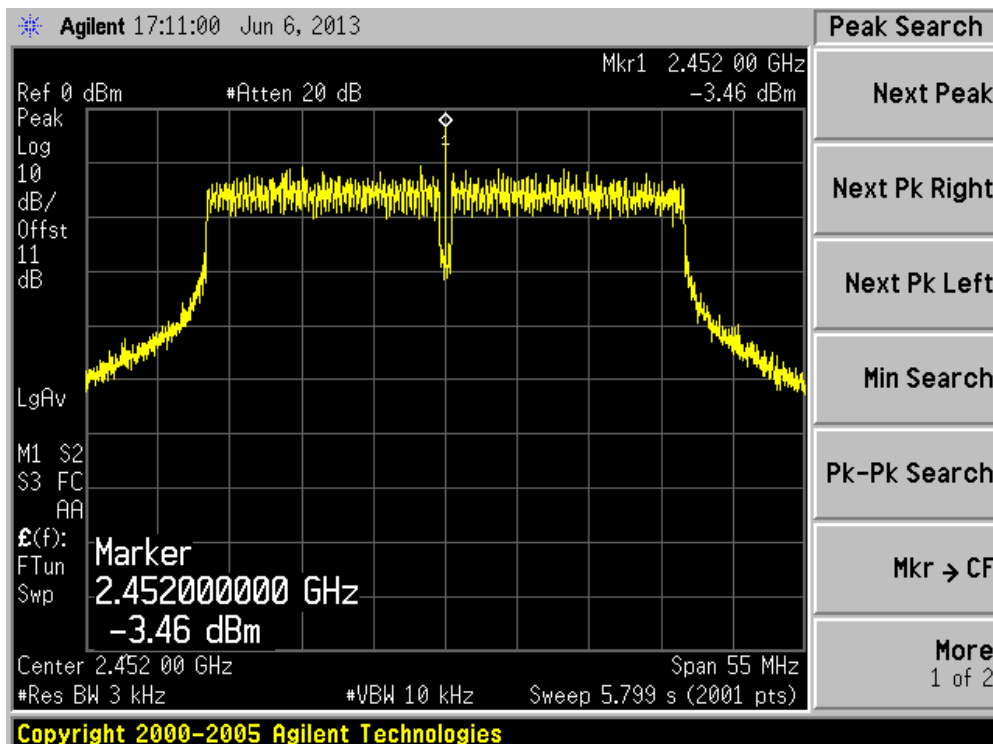
Channel 06 (2437MHz)

Channel 11 (2462MHz)


Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 010)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
03	2422	N/A	-3.37	-3.37	8	Pass
06	2437	N/A	-3.52	-3.52	8	Pass
09	2452	N/A	-3.46	-3.46	8	Pass

Channel 03 (2422MHz)

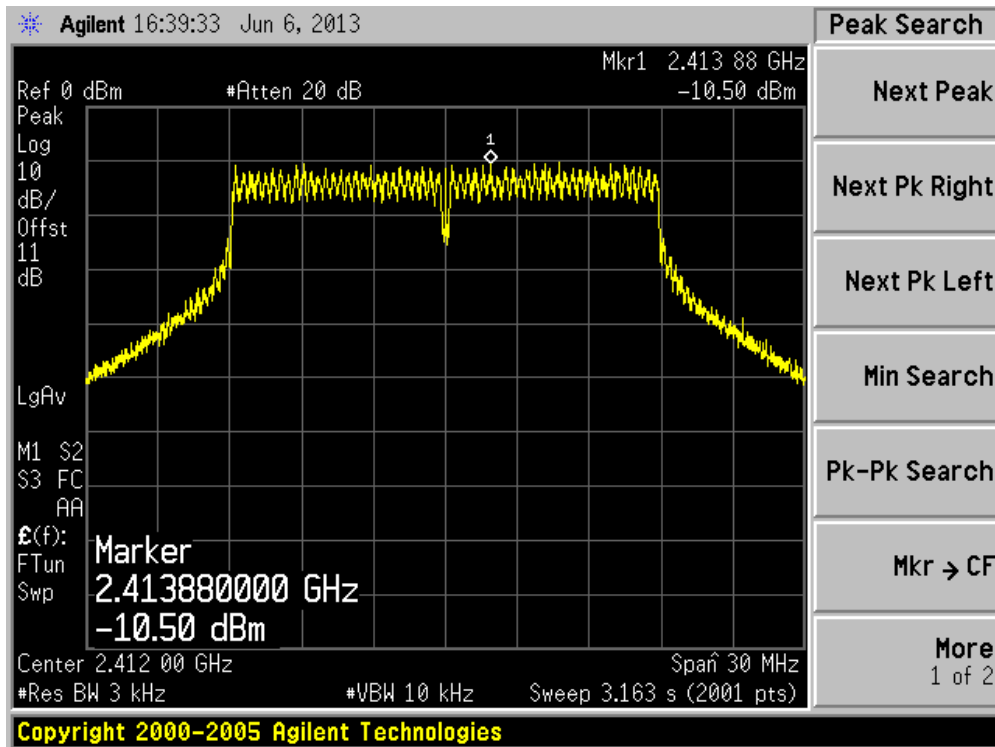


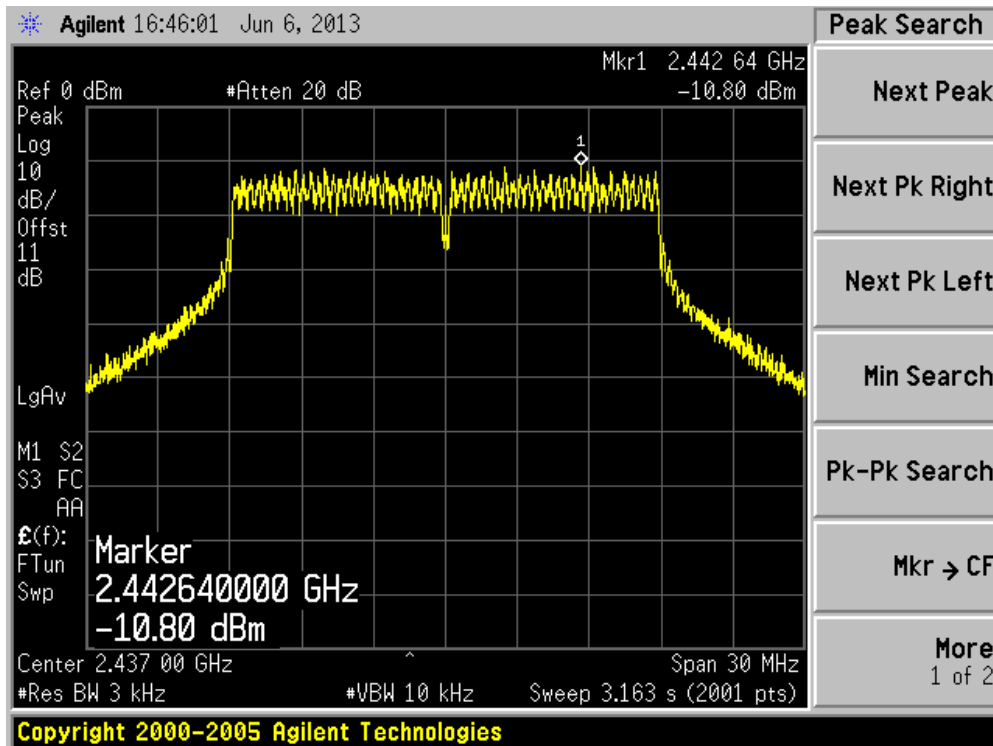
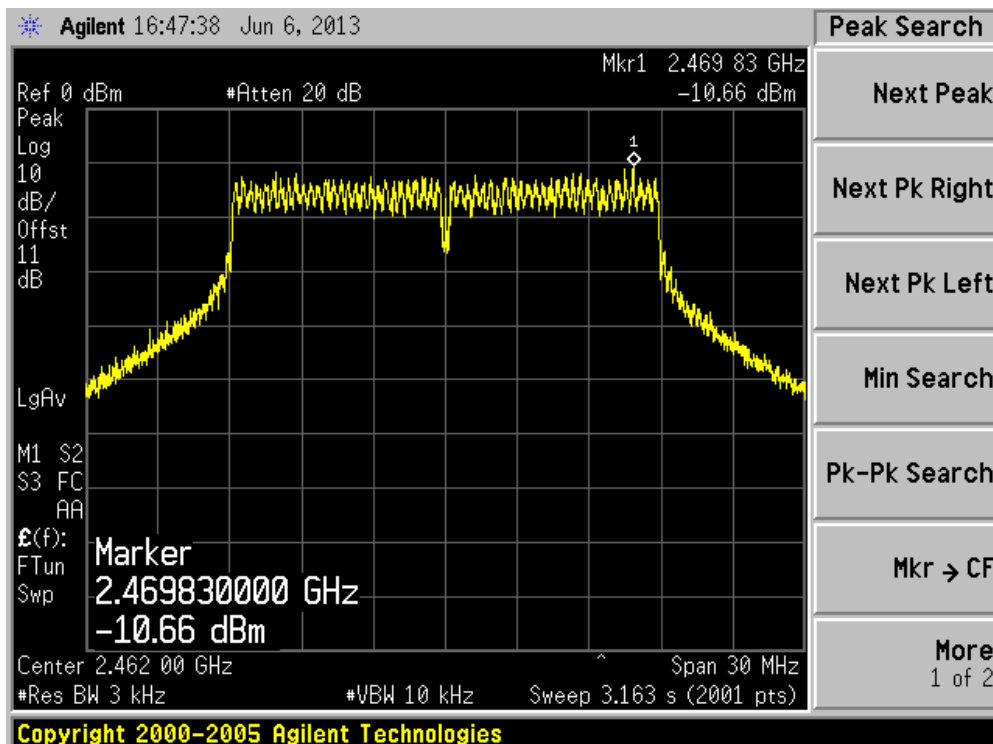
Channel 06 (2437MHz)

Channel 09 (2452MHz)


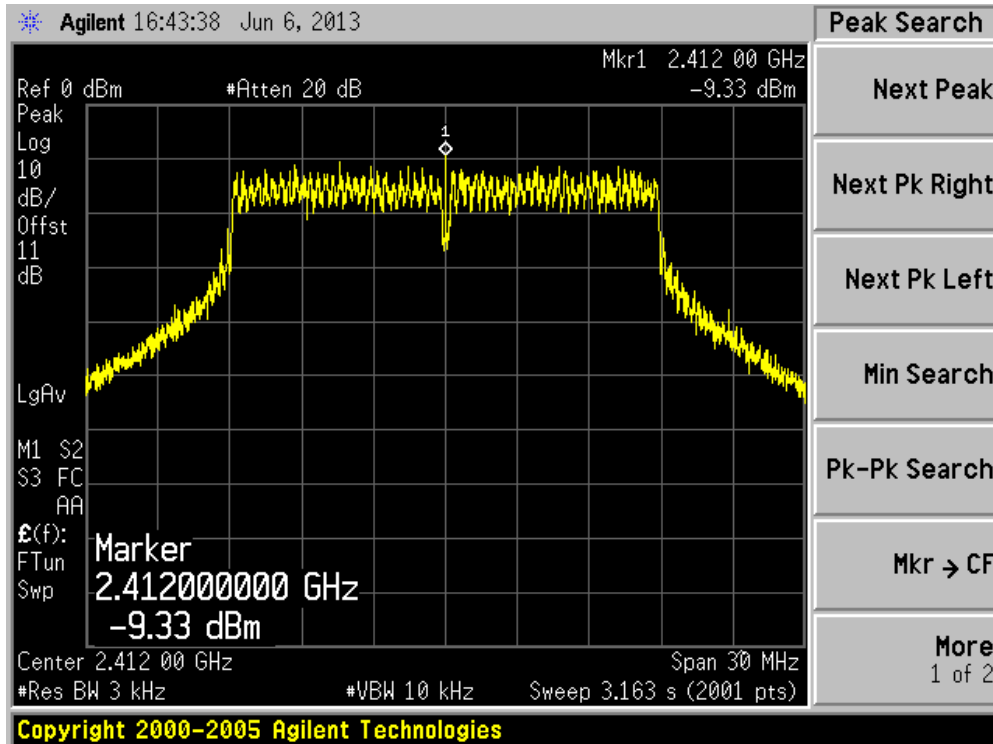
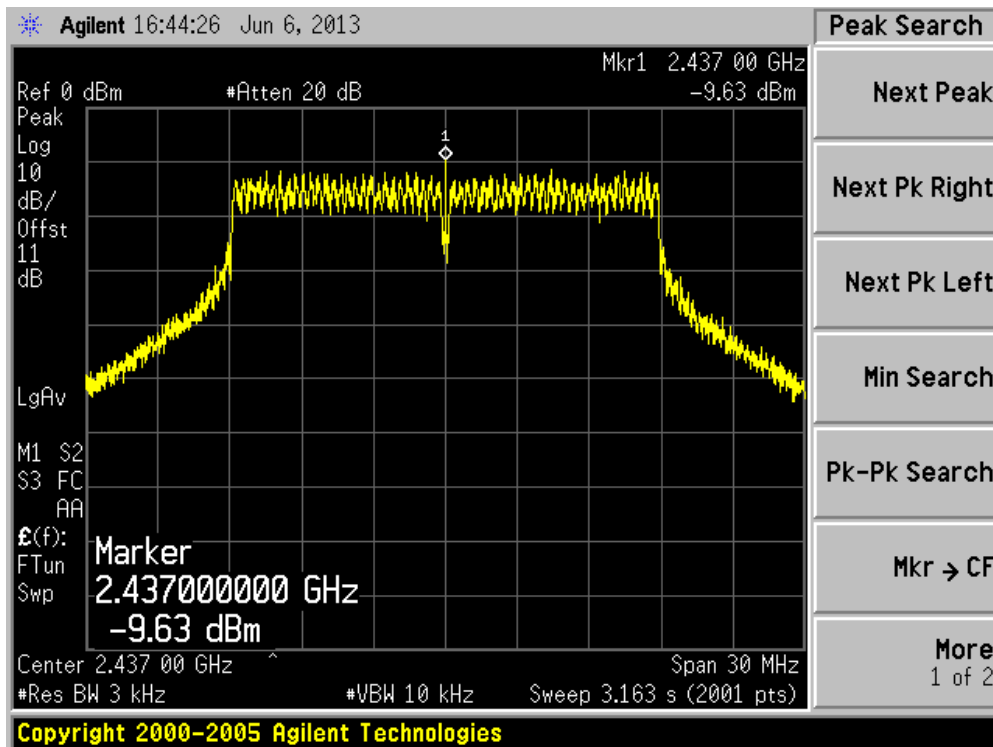
Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz) (Ant 110)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
01	2412	-10.50	-9.33	-6.87	8	Pass
06	2437	-10.80	-9.63	-7.17	8	Pass
11	2462	-10.66	-9.12	-6.81	8	Pass

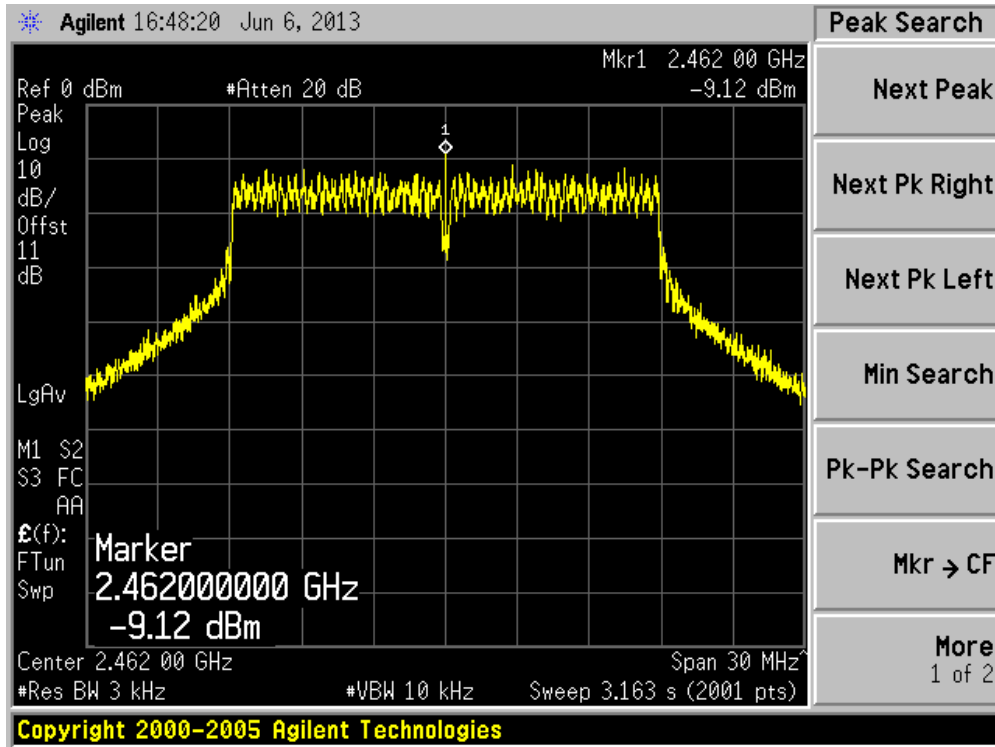
Channel 01 (2412MHz) – Ant 100



Channel 06 (2437MHz) – Ant 100

Channel 11 (2462MHz) – Ant 100


Channel 01 (2412MHz) – Ant 010

Channel 06 (2437MHz) – Ant 010


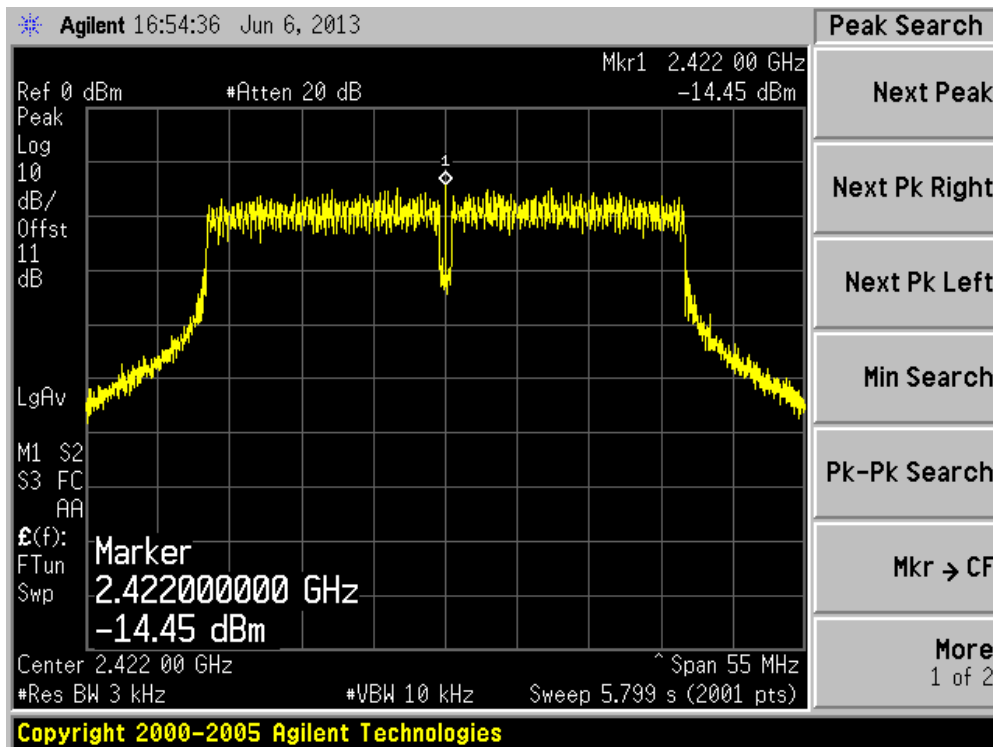
Channel 11 (2462MHz) – Ant 010

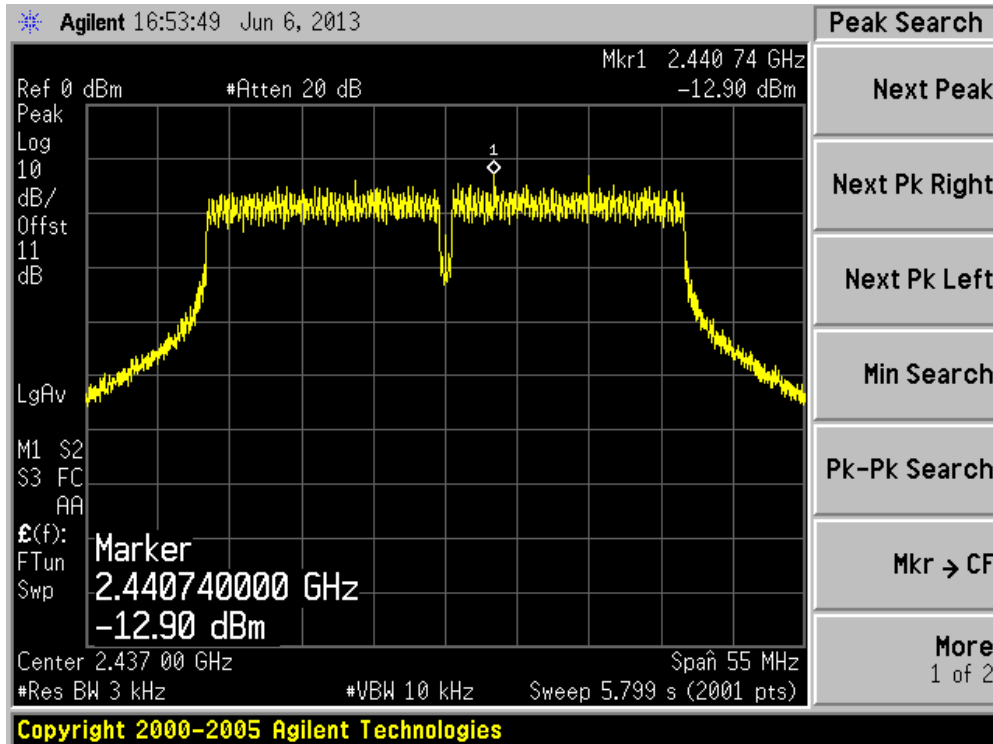
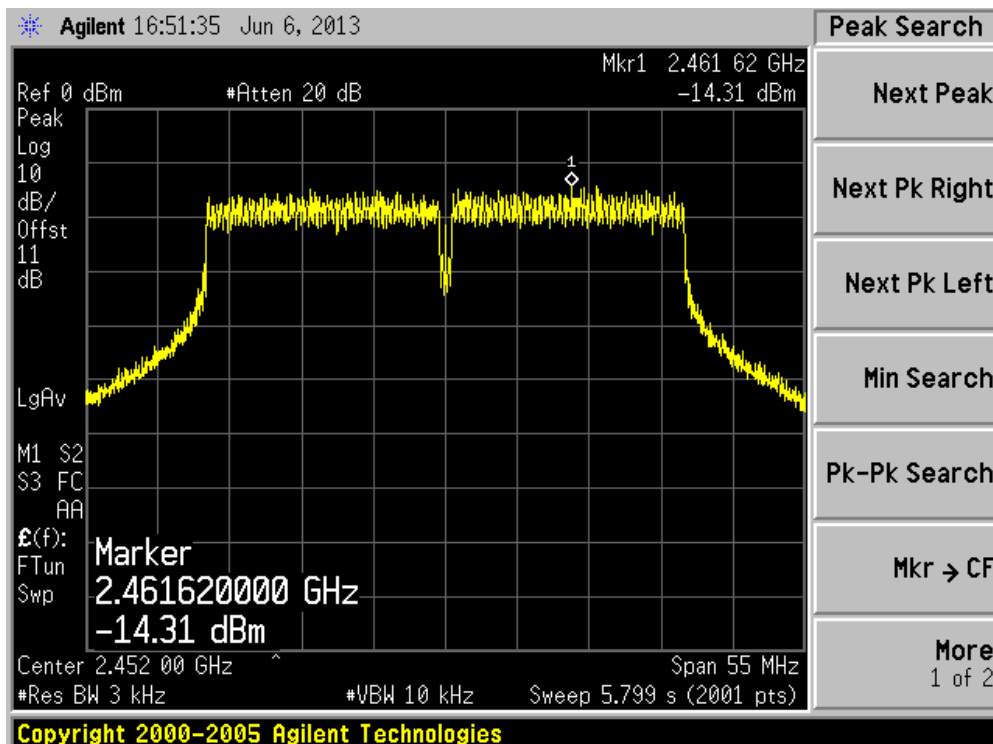


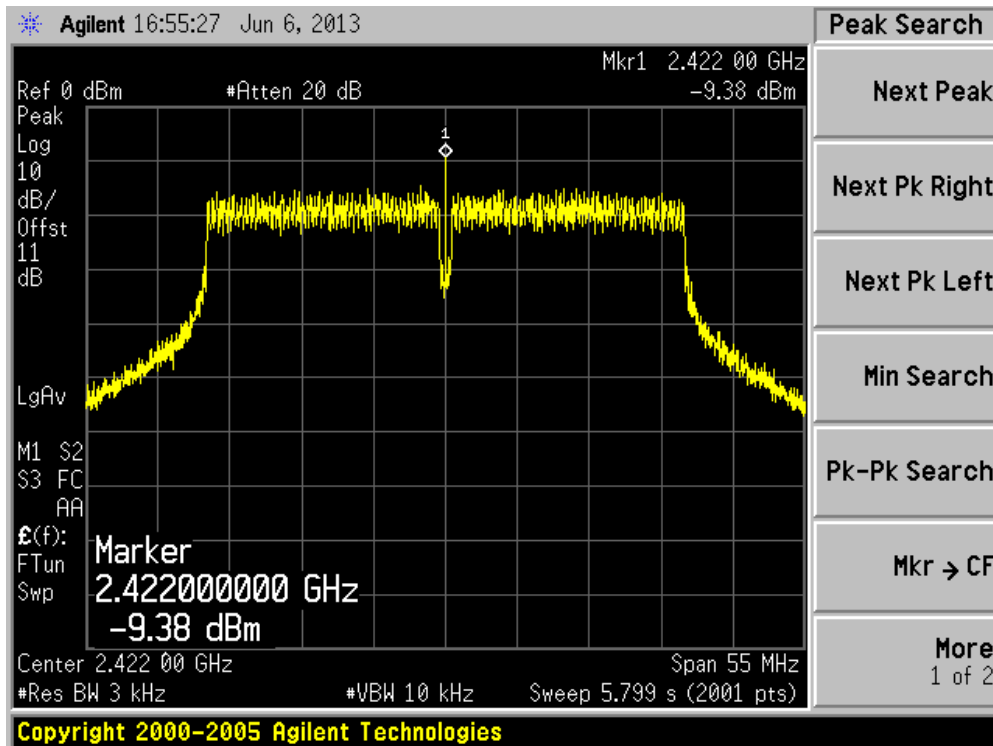
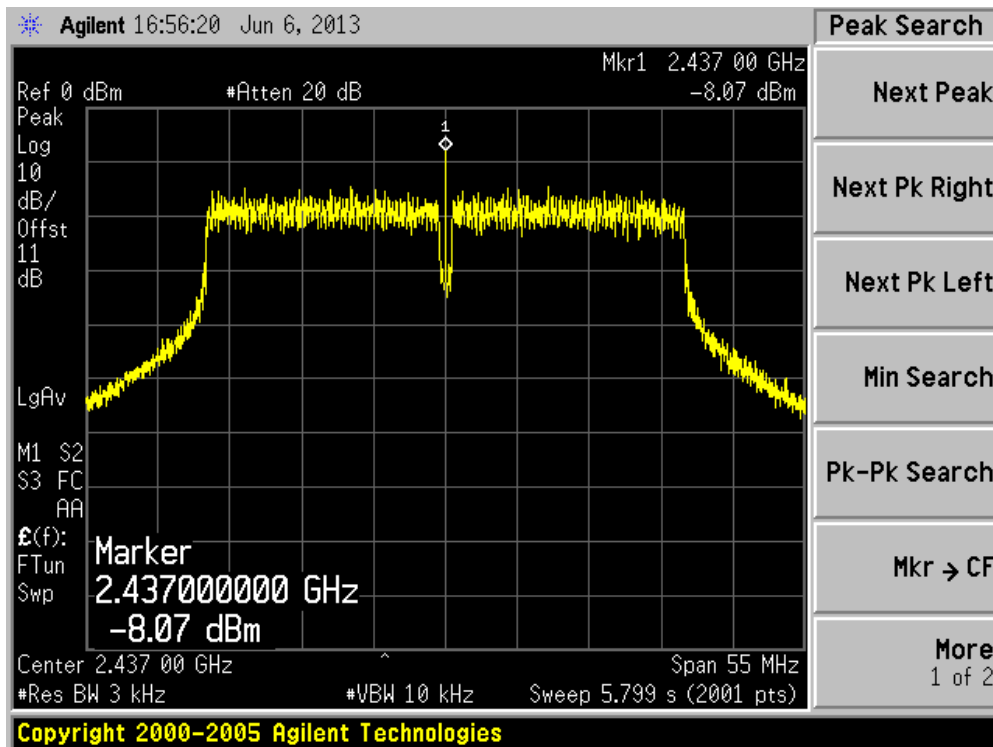
Product	:	WIRELESS-BGN 23DBM 2X2 NETWORK MINI PCIE ADAPTER
Test Item	:	Power Spectral Density
Test Site	:	TR-8
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz) (Ant 110)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Ant 100	Ant 010			
03	2422	-14.45	-9.38	-8.20	8	Pass
06	2437	-12.90	-8.07	-6.84	8	Pass
09	2452	-14.31	-8.39	-7.40	8	Pass

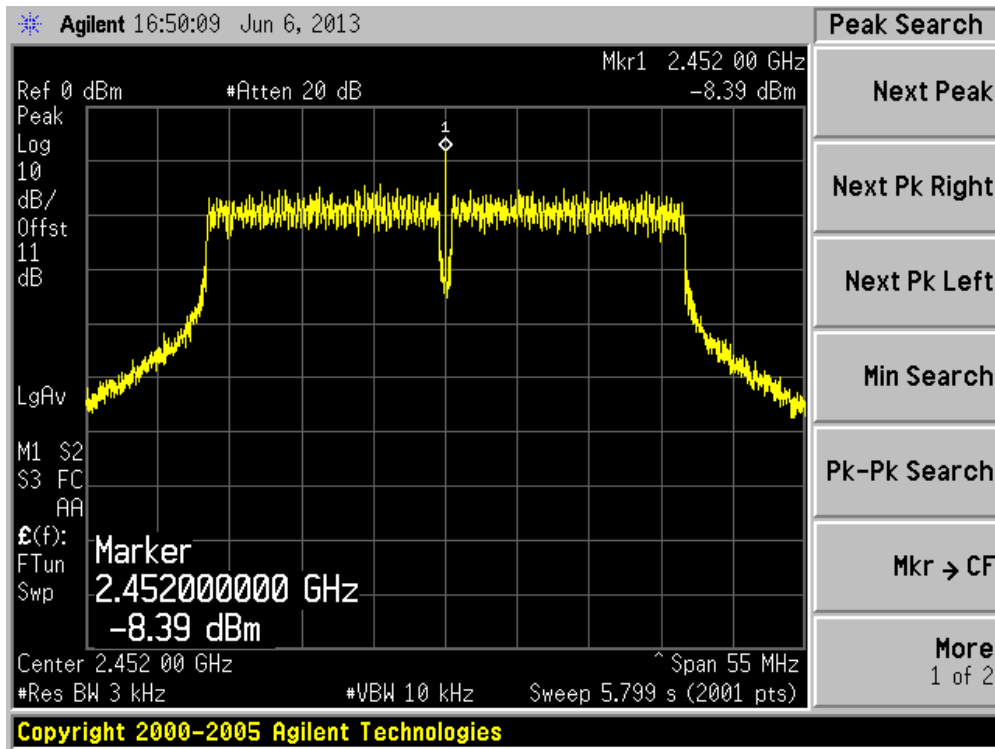
Channel 03 (2422MHz) – Ant 100



Channel 06 (2437MHz) – Ant 100

Channel 09 (2452MHz) – Ant 100


Channel 03 (2422MHz) – Ant 010

Channel 06 (2437MHz) – Ant 010


Channel 09 (2452MHz) – Ant 010



11. Measurement Uncertainty

Conducted Emission
The maximum measurement uncertainty is defined as: 9kHz~30MHz: ± 2.02 dB
Radiated disturbance
The maximum measurement uncertainty is defined as: Below 1GHz: ± 3.8 dB Above 1GHz: ± 3.9 dB
RF Antenna Conducted Spurious
The maximum measurement uncertainty is defined as: ± 1.27 dB.
Radiated Emission Band Edge
The maximum measurement uncertainty is defined as: Above 1GHz: ± 3.9 dB
Operation Frequency Range of 20dB Bandwidth
The maximum measurement uncertainty is defined as: ± 1 kHz.
Occupied Bandwidth
The maximum measurement uncertainty is defined as: ± 1 kHz.
Power Output
The maximum measurement uncertainty is evaluated as ± 1.27 dB.
Power Spectral Density
The maximum measurement uncertainty is evaluated as ± 1.27 dB.

12. List of Measuring Instrument

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100726	2014.01.07
Two-Line V-Network	R&S	ENV216	100043	2014.03.30
Two-Line V-Network	R&S	ENV216	100044	2013.09.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2014.03.01
50ohm Termination	SHX	TF2	07081401	2013.09.17
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2014.01.10

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2014.03.30
Loop Antenna	R&S	HFH2-Z2	833799/003	2013.11.22
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2013.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2014.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2014.01.09

Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.04
Preamplifier	QuieTek	AP-040G	CHM-0906001	2014.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2014.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2013.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2014.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2013.06.11
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2014.01.11

Operation Frequency Range of 20dB Bandwidth / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

Occupied Channel Bandwidth

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014/03/30
Temperature/Humidity Meter	Zhicheng	ZC1-2	TR8-TH	2014/05/08

Power Output

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2013.11.10
Power Sensor	Anritsu	MA2411B	0846014	2013.11.10
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07

Power Spectral Density

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2014.01.21
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.07