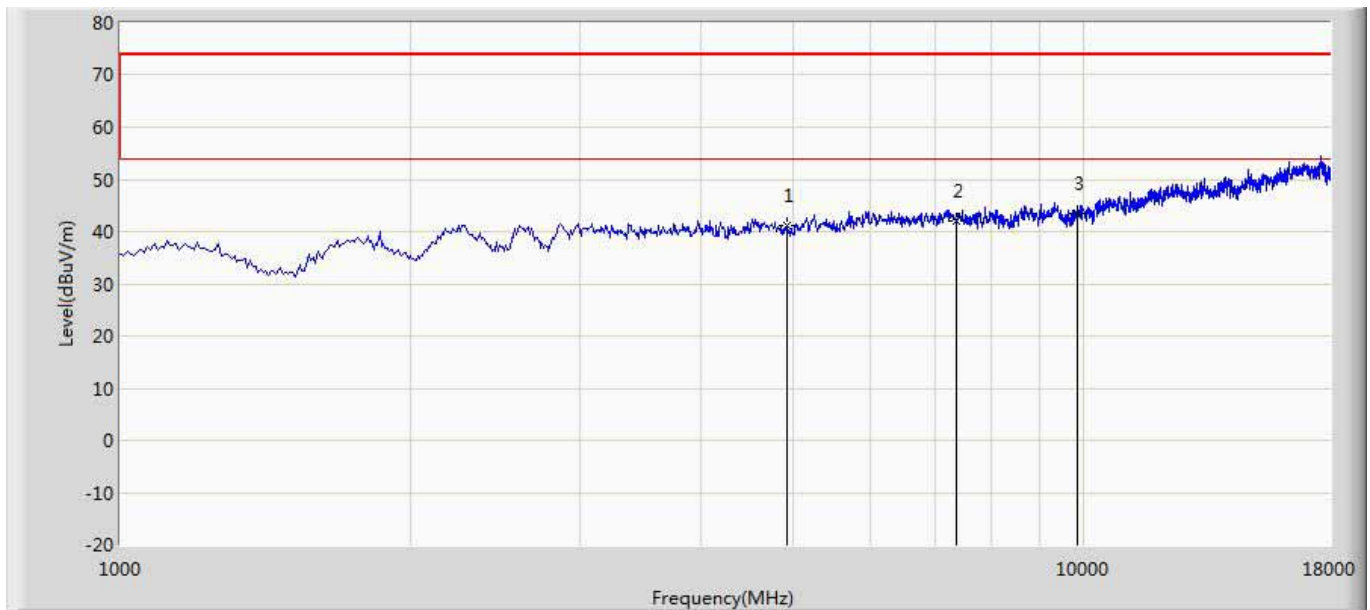
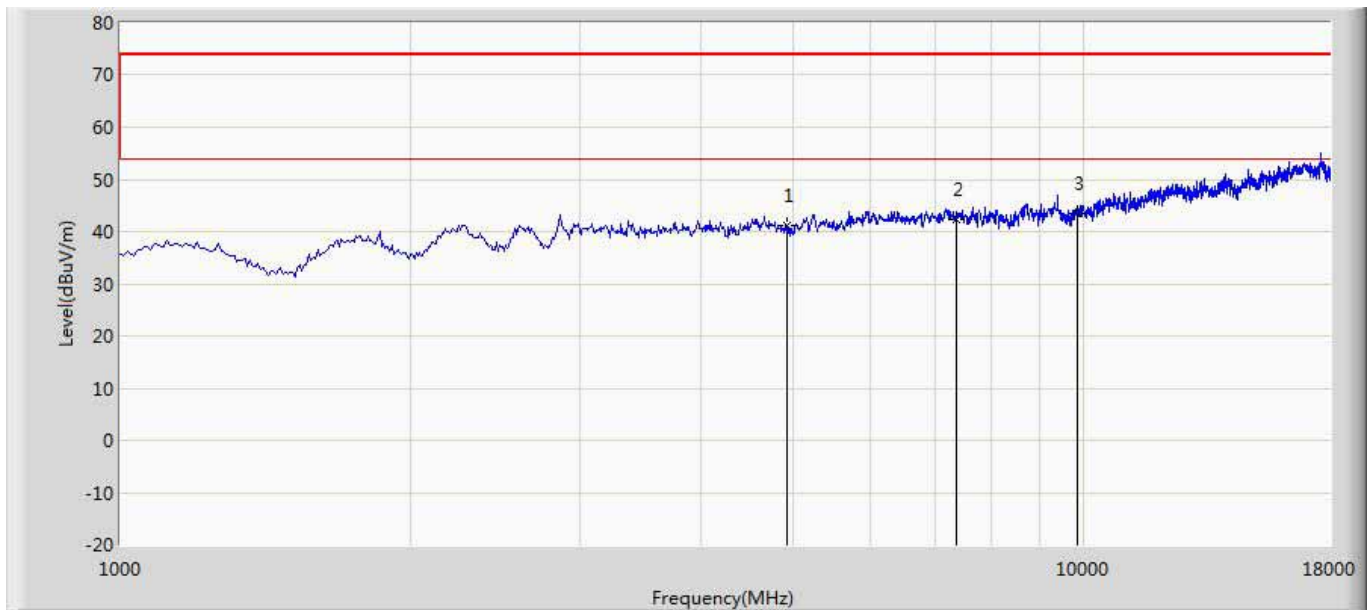


Site: AC5	Time: 2018/05/23 - 19:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 9:Transmit at channel 2462MHz by 802.11B 2*TX+2*RX Beamforming	



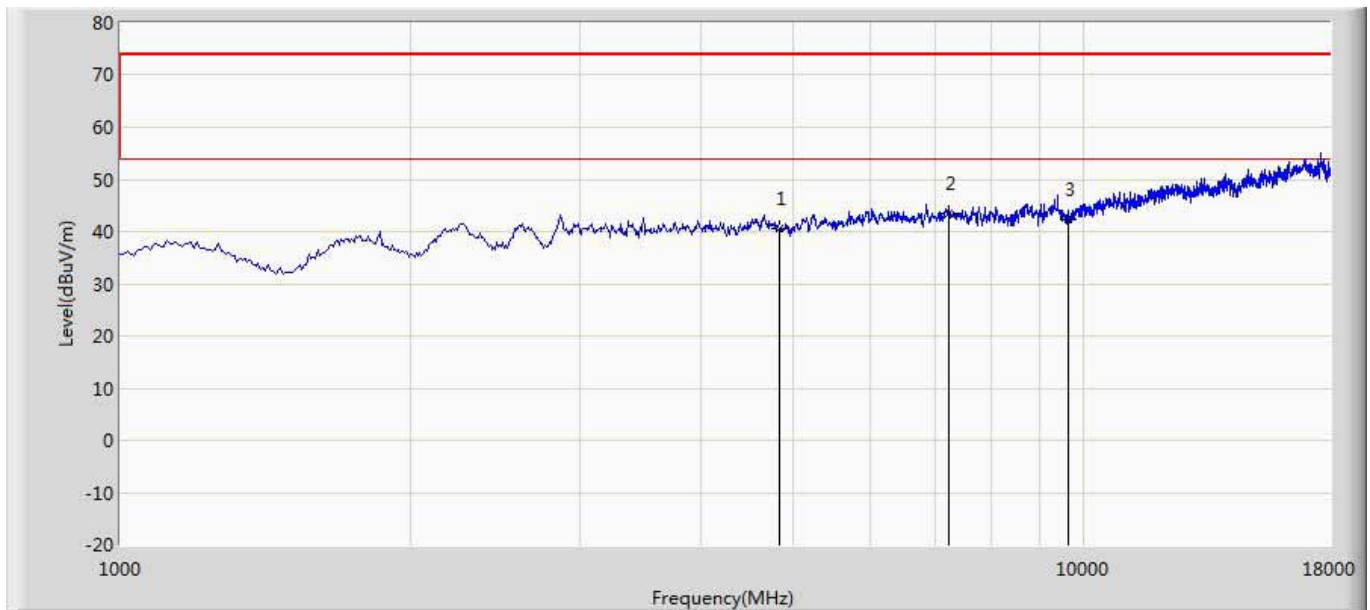
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.179	42.179	-32.821	74.000	-1.001	PK
2		7386.000	42.044	39.939	-31.956	74.000	2.105	PK
3	*	9848.000	43.600	38.530	-30.400	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 9:Transmit at channel 2462MHz by 802.11B 2*TX+2*RX Beamforming	



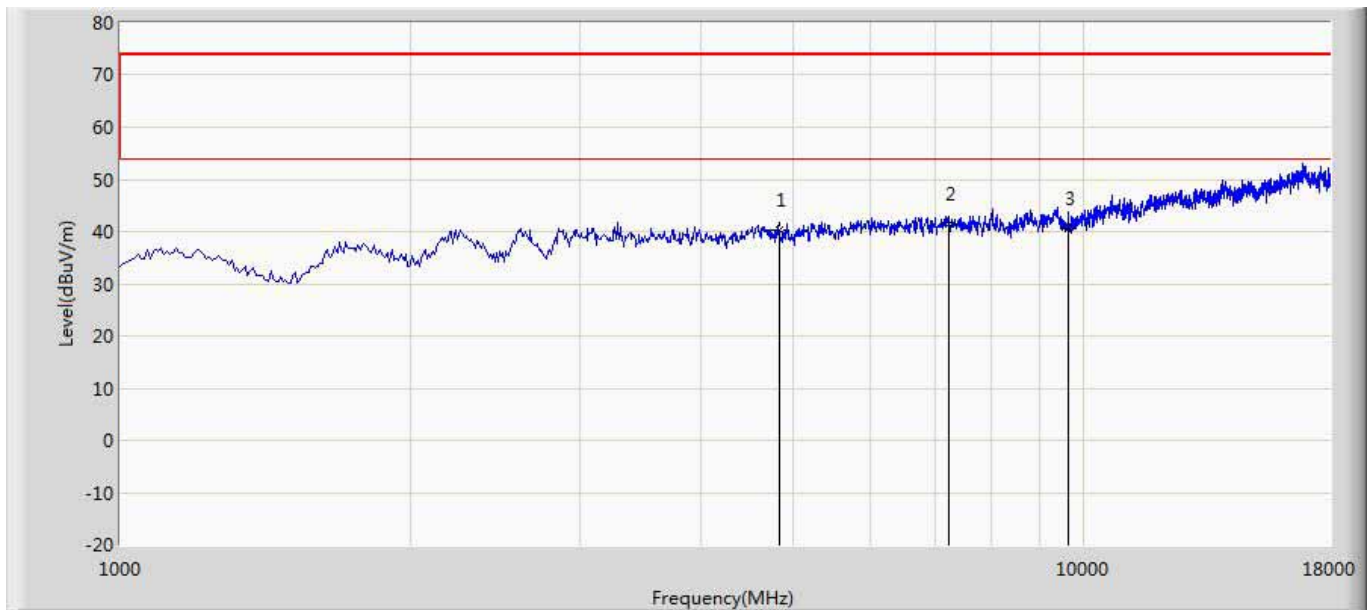
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.255	42.255	-32.745	74.000	-1.001	PK
2		7386.000	42.396	40.291	-31.604	74.000	2.105	PK
3	*	9848.000	43.600	38.530	-30.400	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2412MHz by 802.11G 2*TX+2*RX Beamforming	



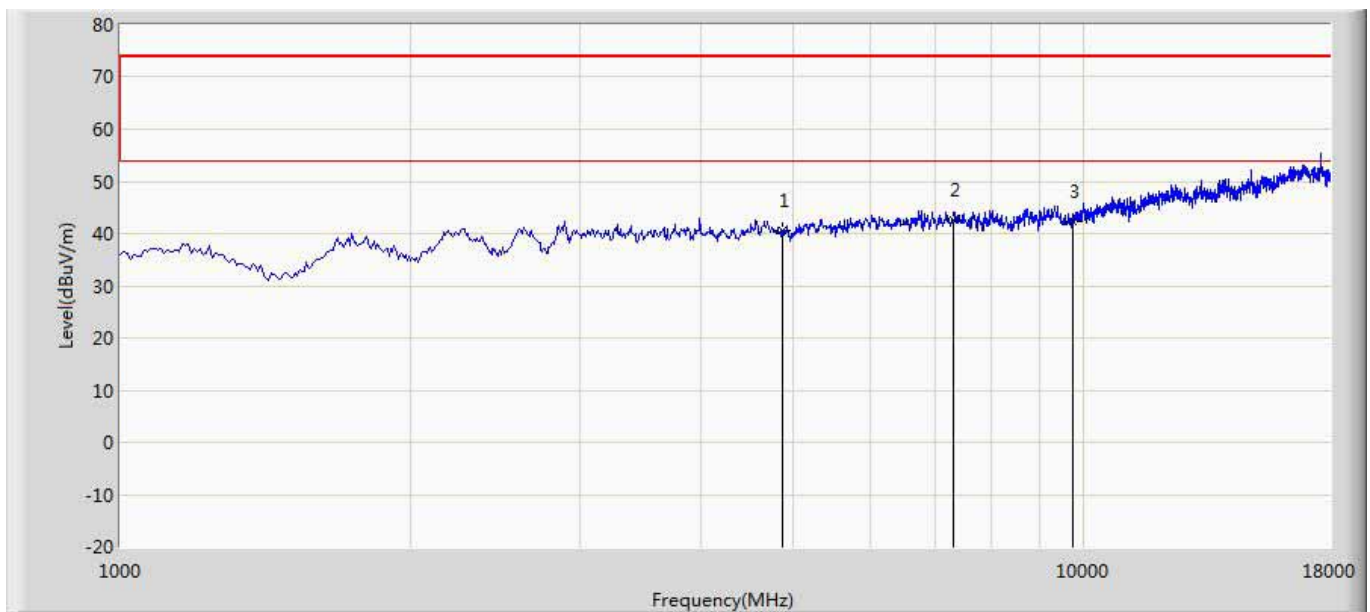
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.587	42.148	-33.413	74.000	-1.561	PK
2	*	7236.000	43.358	41.034	-30.642	74.000	2.323	PK
3		9648.000	42.341	38.313	-31.659	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2412MHz by 802.11G 2*TX+2*RX Beamforming	



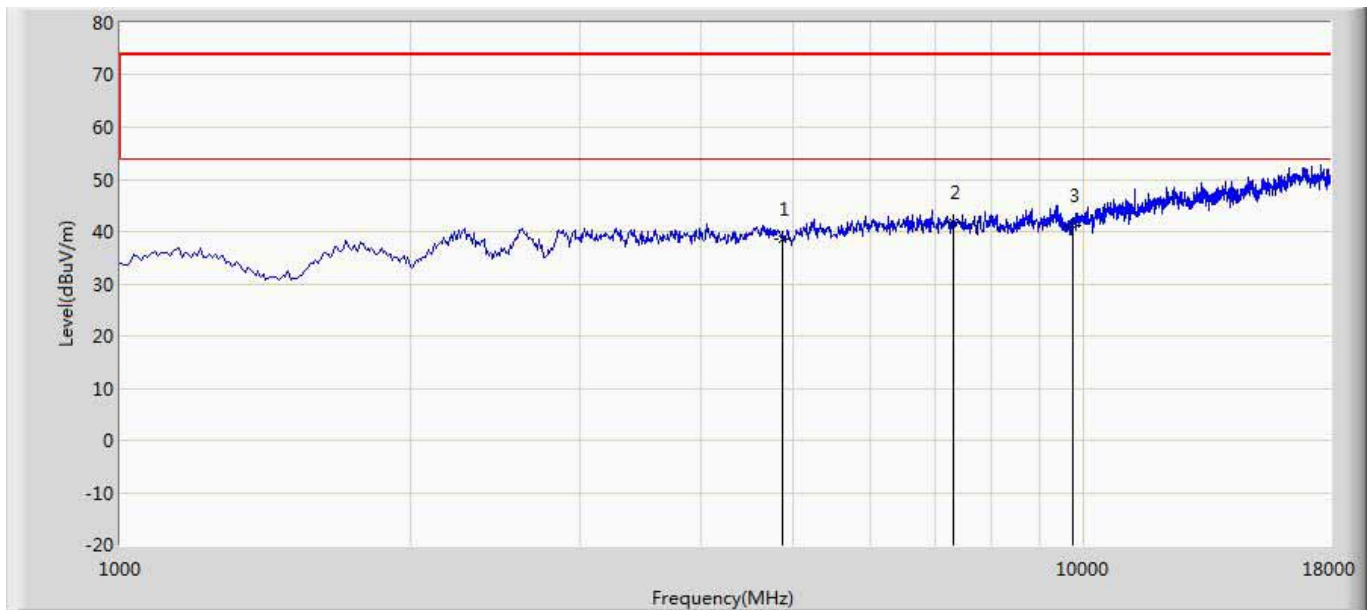
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.315	41.876	-33.685	74.000	-1.561	PK
2	*	7236.000	41.379	39.055	-32.621	74.000	2.323	PK
3		9648.000	40.600	36.572	-33.400	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2437MHz by 802.11G 2*TX+2*RX Beamforming	



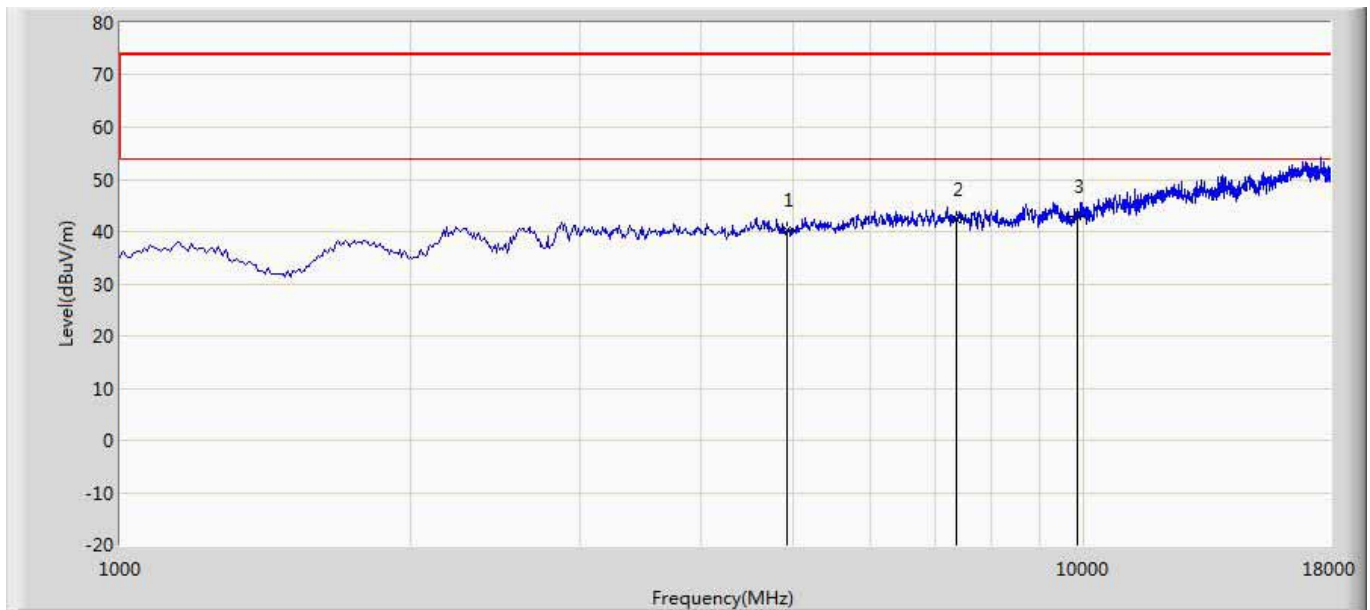
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.563	42.175	-33.437	74.000	-1.612	PK
2	*	7311.000	42.621	39.746	-31.379	74.000	2.875	PK
3		9748.000	42.366	38.152	-31.634	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2437MHz by 802.11G 2*TX+2*RX Beamforming	



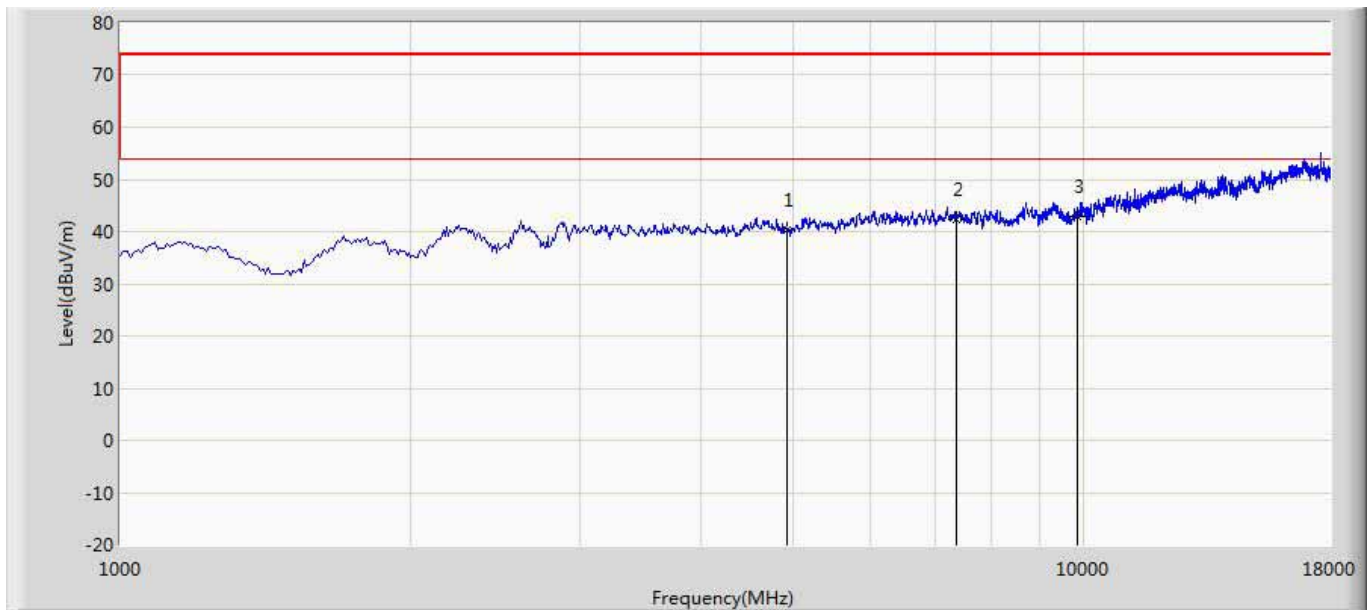
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.464	40.076	-35.536	74.000	-1.612	PK
2	*	7311.000	41.708	38.833	-32.292	74.000	2.875	PK
3		9748.000	41.252	37.038	-32.748	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2462MHz by 802.11G 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.231	41.231	-33.769	74.000	-1.001	PK
2		7386.000	42.395	40.290	-31.605	74.000	2.105	PK
3	*	9848.000	42.949	37.879	-31.051	74.000	5.070	PK

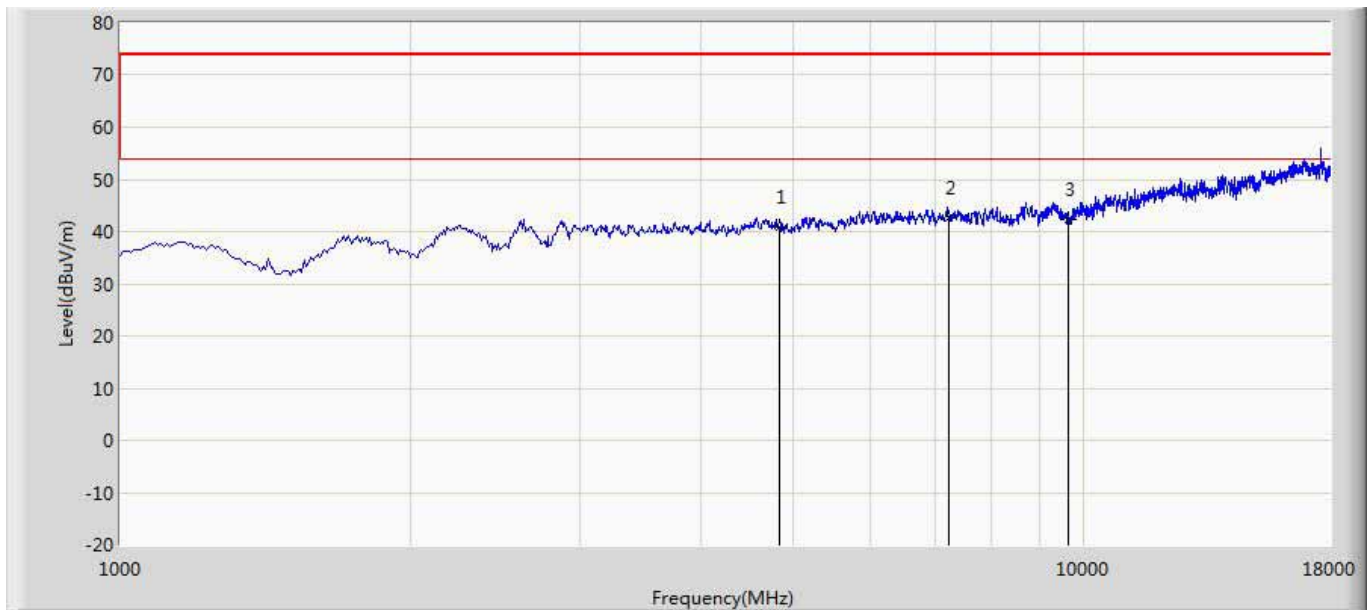
Site: AC5	Time: 2018/05/23 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 10:Transmit at channel 2462MHz by 802.11G 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.429	41.429	-33.571	74.000	-1.001	PK
2		7386.000	42.405	40.300	-31.595	74.000	2.105	PK
3	*	9848.000	42.990	37.920	-31.010	74.000	5.070	PK

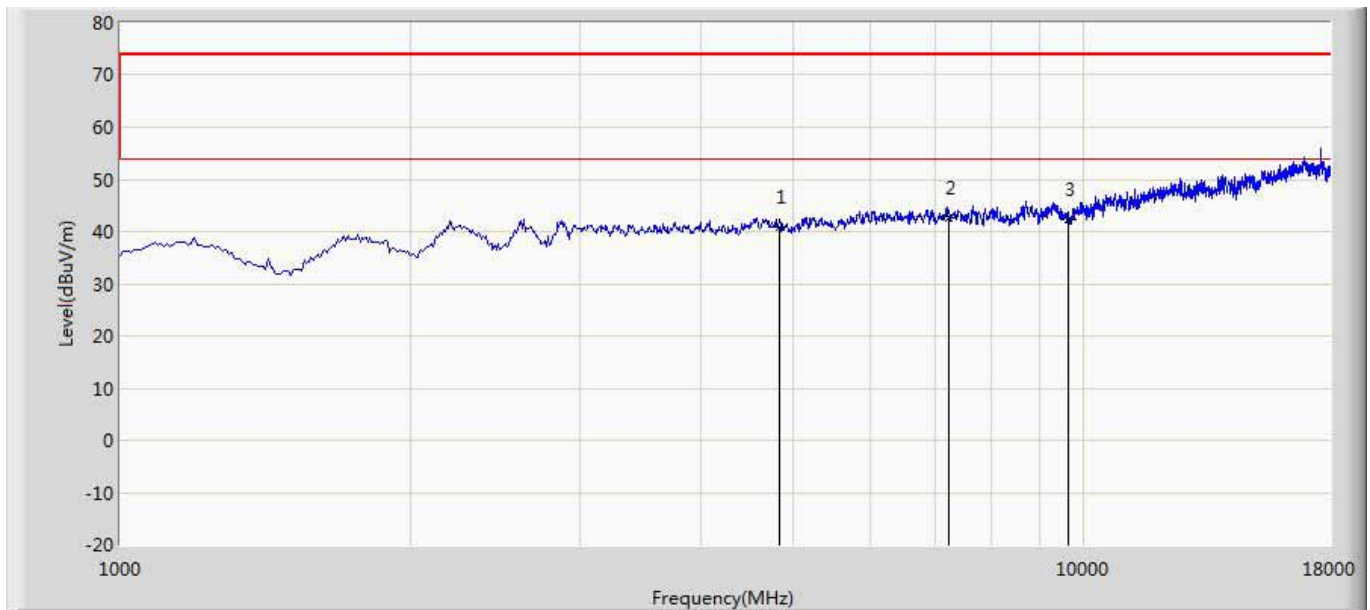


Site: AC5	Time: 2018/05/23 - 19:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 2412MHz by 802.11N20 2*TX+2*RX Beamforming	



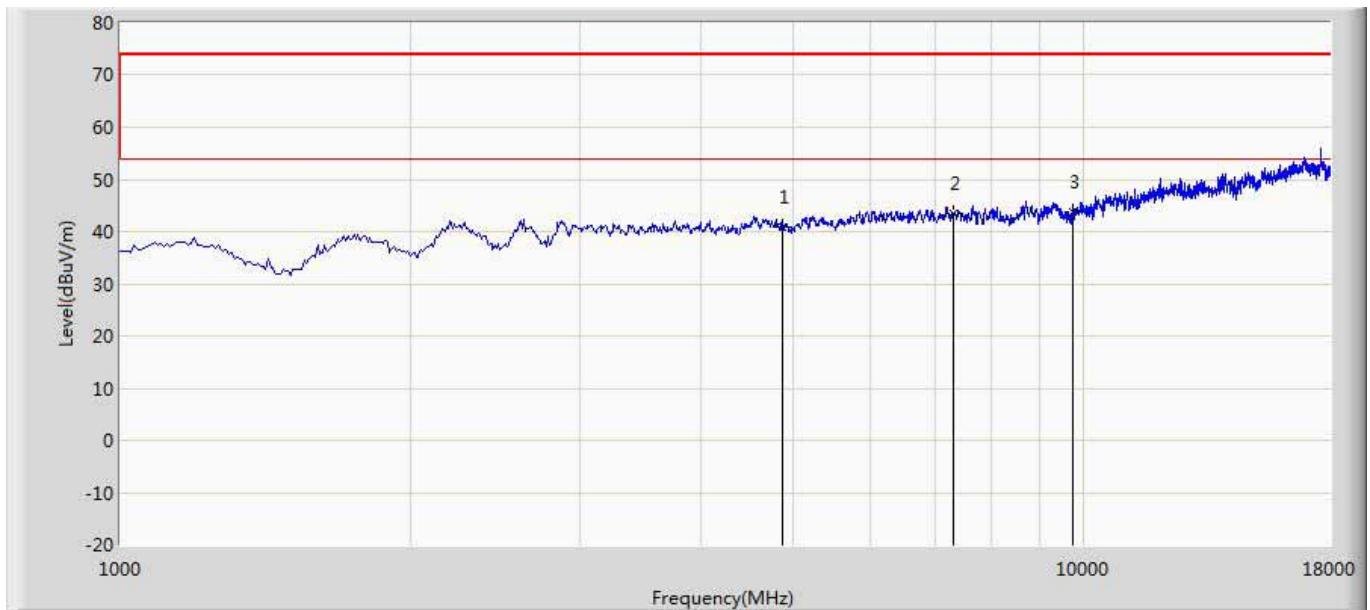
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.994	42.555	-33.006	74.000	-1.561	PK
2	*	7236.000	42.616	40.292	-31.384	74.000	2.323	PK
3		9648.000	42.195	38.167	-31.805	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 2412MHz by 802.11N20 2*TX+2*RX Beamforming	



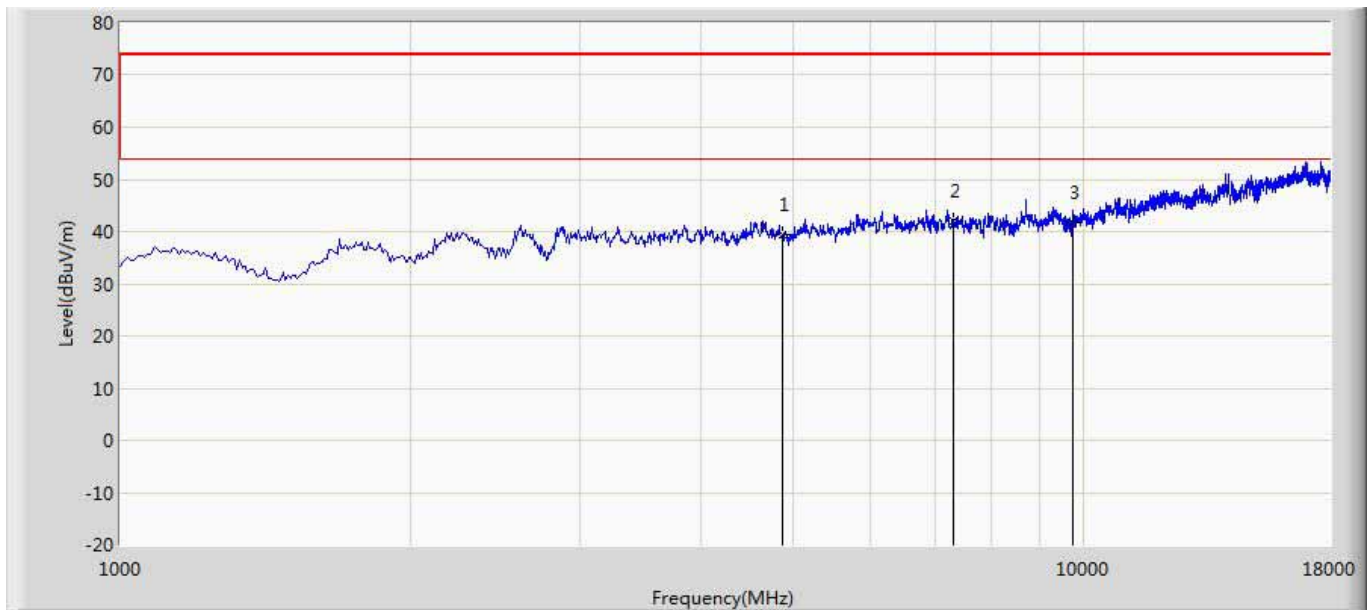
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.994	42.555	-33.006	74.000	-1.561	PK
2	*	7236.000	42.616	40.292	-31.384	74.000	2.323	PK
3		9648.000	42.195	38.167	-31.805	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 2437MHz by 802.11N20 2*TX+2*RX Beamforming	



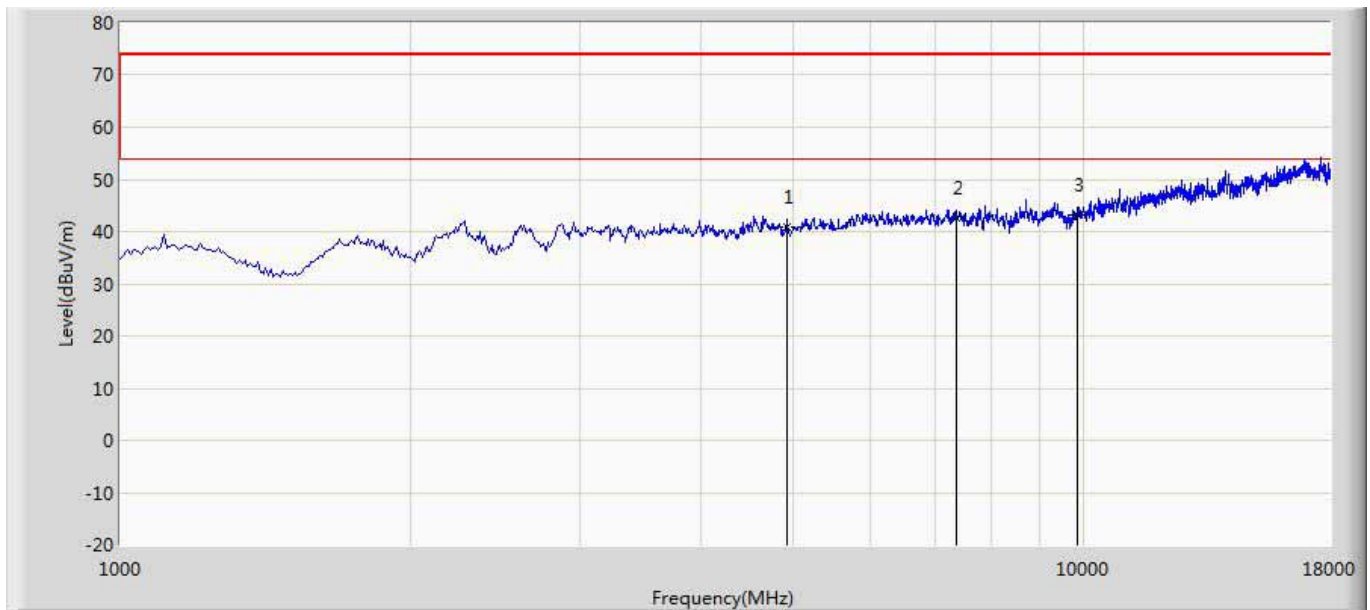
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.740	42.352	-33.260	74.000	-1.612	PK
2		7311.000	43.568	40.693	-30.432	74.000	2.875	PK
3	*	9748.000	43.723	39.509	-30.277	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 2437MHz by 802.11N20 2*TX+2*RX Beamforming	



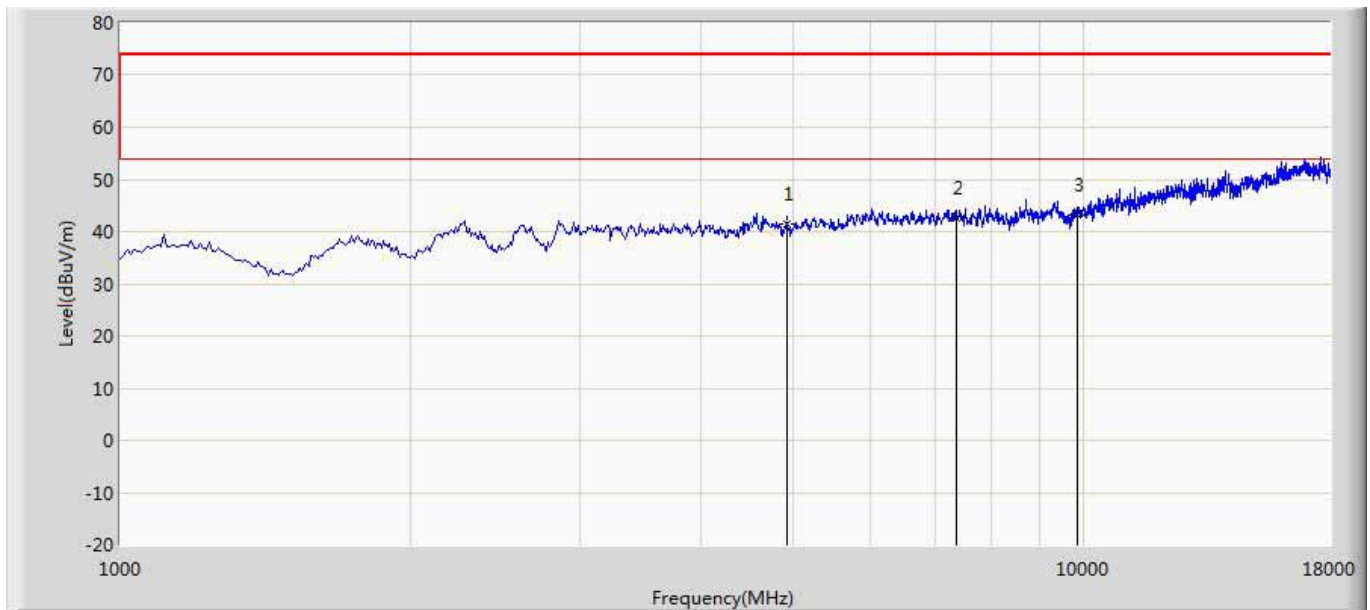
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.507	41.119	-34.493	74.000	-1.612	PK
2	*	7311.000	42.169	39.294	-31.831	74.000	2.875	PK
3		9748.000	41.617	37.403	-32.383	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11: Transmit at channel 2462MHz by 802.11N20 2*TX+2*RX Beamforming	



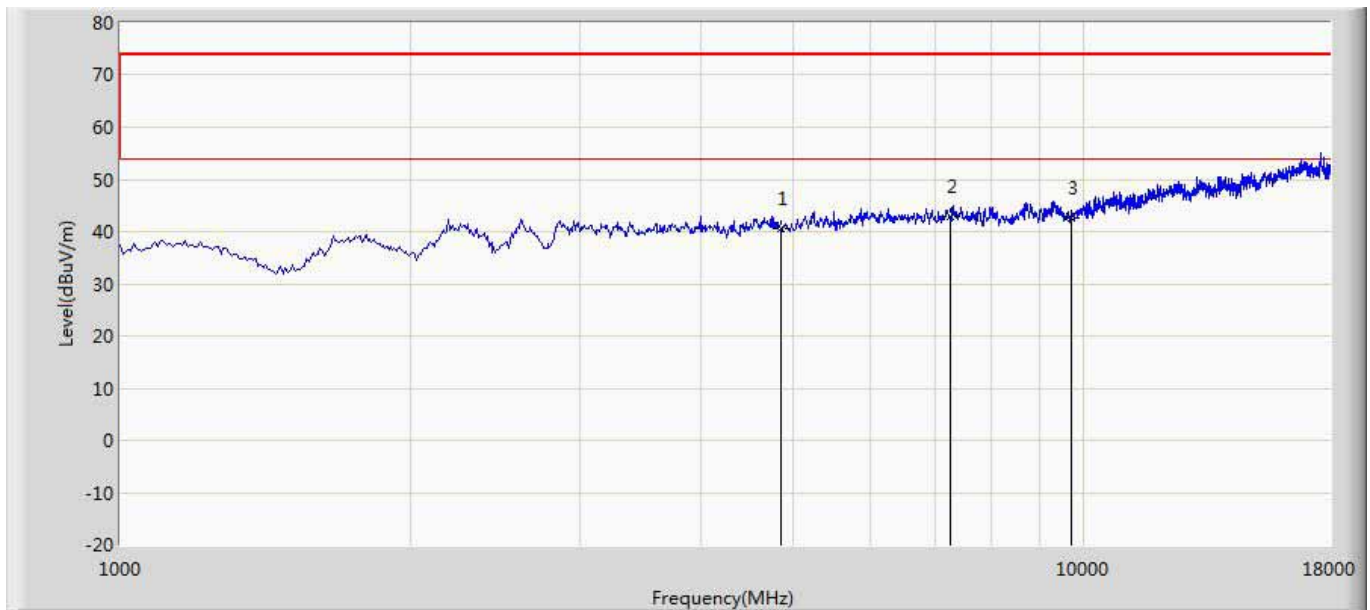
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.935	41.935	-33.065	74.000	-1.001	PK
2		7386.000	42.486	40.381	-31.514	74.000	2.105	PK
3	*	9848.000	43.094	38.024	-30.906	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 11:Transmit at channel 2462MHz by 802.11N20 2*TX+2*RX Beamforming	



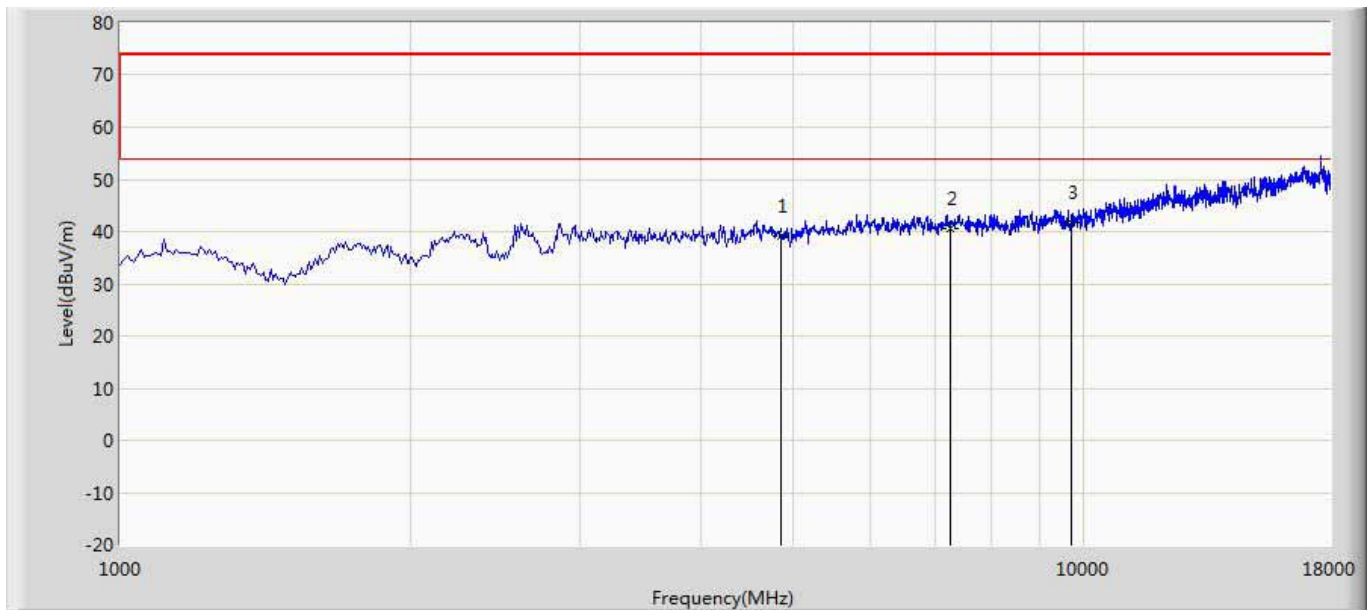
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.313	42.313	-32.687	74.000	-1.001	PK
2		7386.000	42.564	40.459	-31.436	74.000	2.105	PK
3	*	9848.000	43.119	38.049	-30.881	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2422MHz by 802.11N40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	40.502	42.319	-33.498	74.000	-1.818	PK
2	*	7266.000	42.774	40.724	-31.226	74.000	2.050	PK
3		9688.000	42.557	37.827	-31.443	74.000	4.729	PK

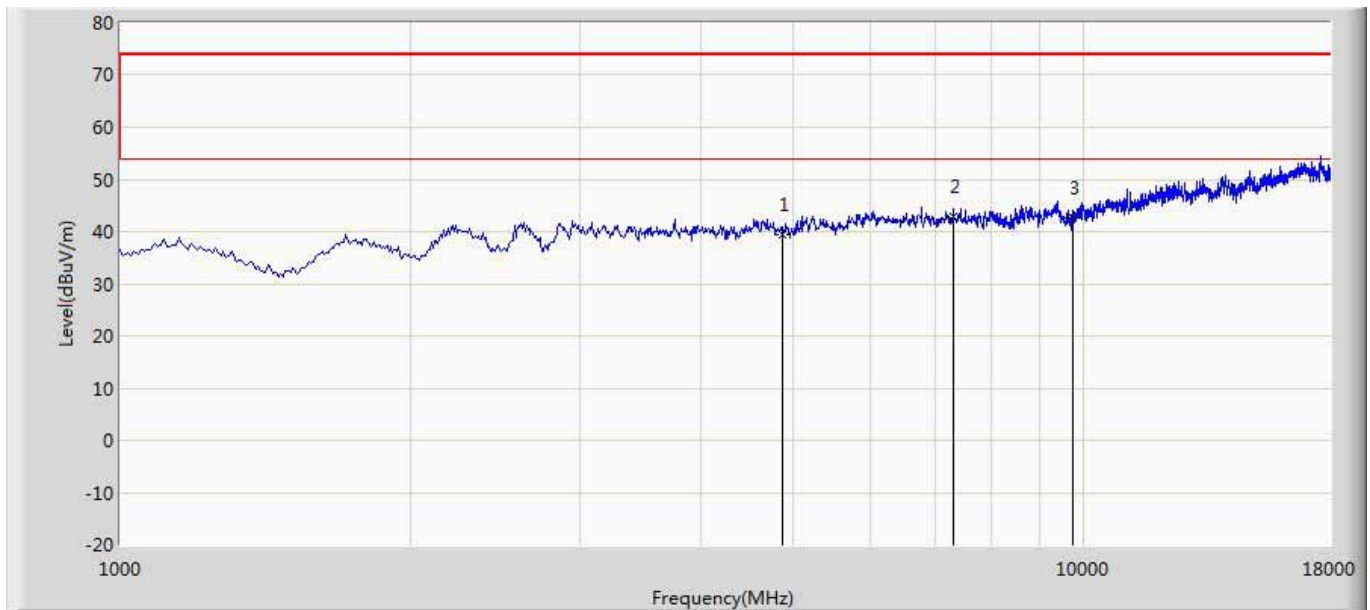
Site: AC5	Time: 2018/05/23 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2422MHz by 802.11N40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	39.081	40.898	-34.919	74.000	-1.818	PK
2		7266.000	40.618	38.568	-33.382	74.000	2.050	PK
3	*	9688.000	41.690	36.960	-32.310	74.000	4.729	PK

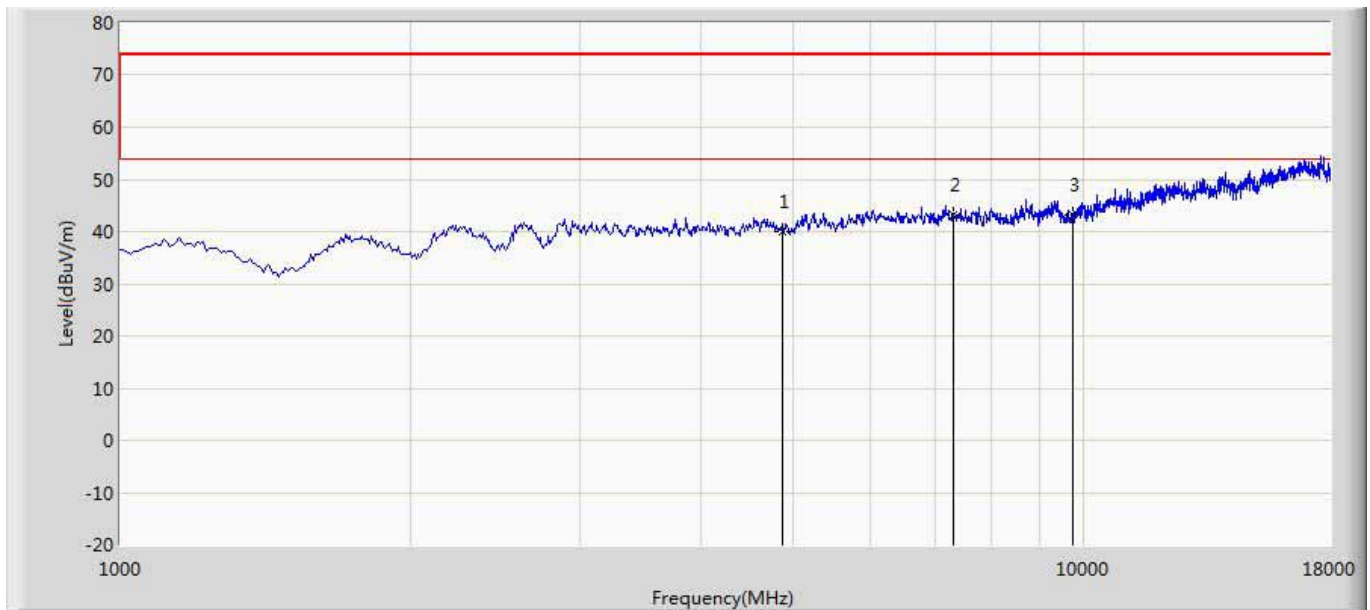


Site: AC5	Time: 2018/05/23 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2437MHz by 802.11N40 2*TX+2*RX Beamforming	



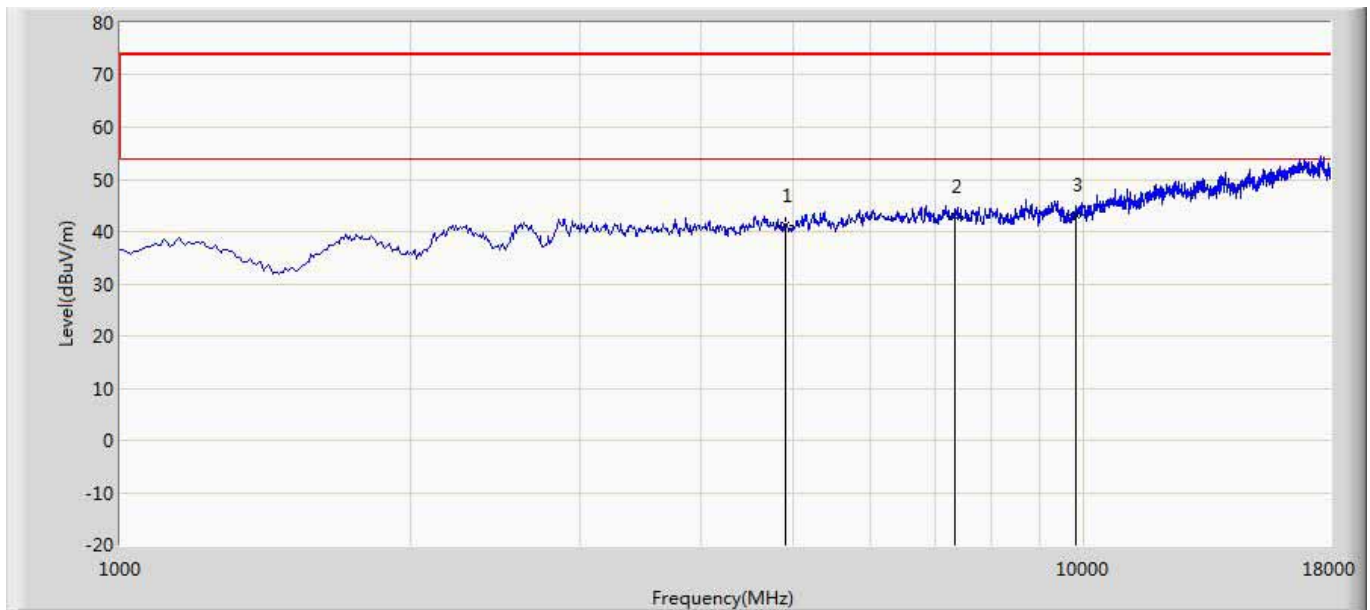
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.552	41.164	-34.448	74.000	-1.612	PK
2	*	7311.000	42.804	39.929	-31.196	74.000	2.875	PK
3		9748.000	42.593	38.379	-31.407	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2437MHz by 802.11N40 2*TX+2*RX Beamforming	



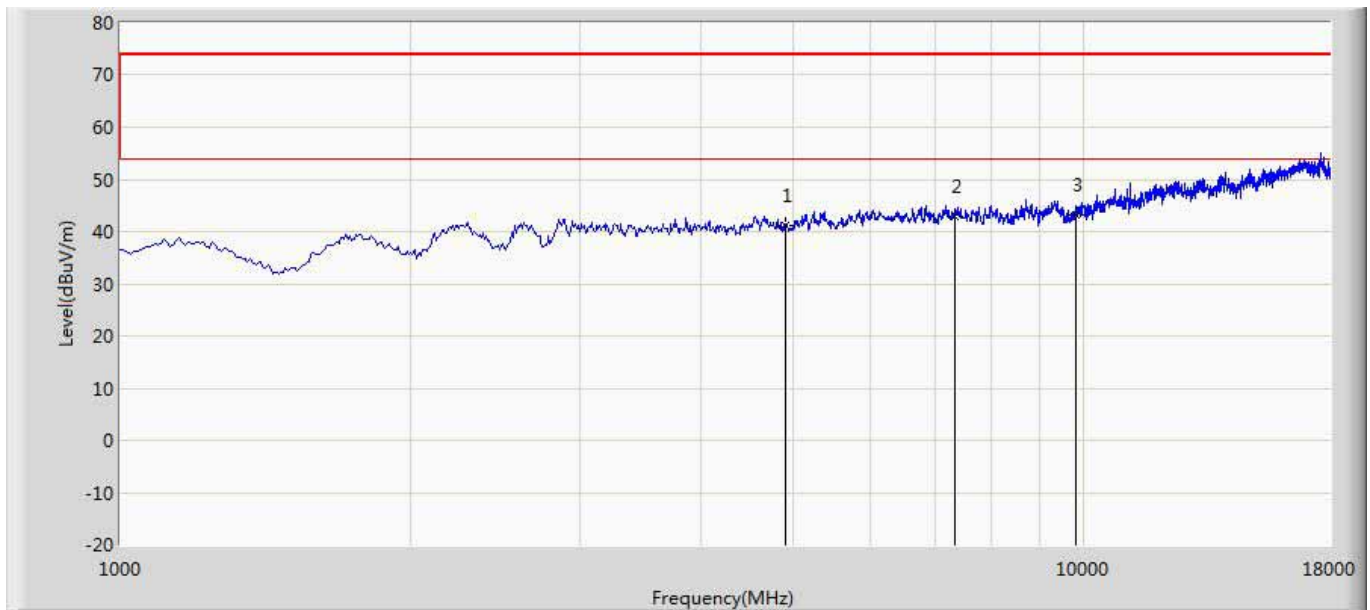
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.997	41.609	-34.003	74.000	-1.612	PK
2	*	7311.000	43.254	40.379	-30.746	74.000	2.875	PK
3		9748.000	43.096	38.882	-30.904	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2452MHz by 802.11N40 2*TX+2*RX Beamforming	



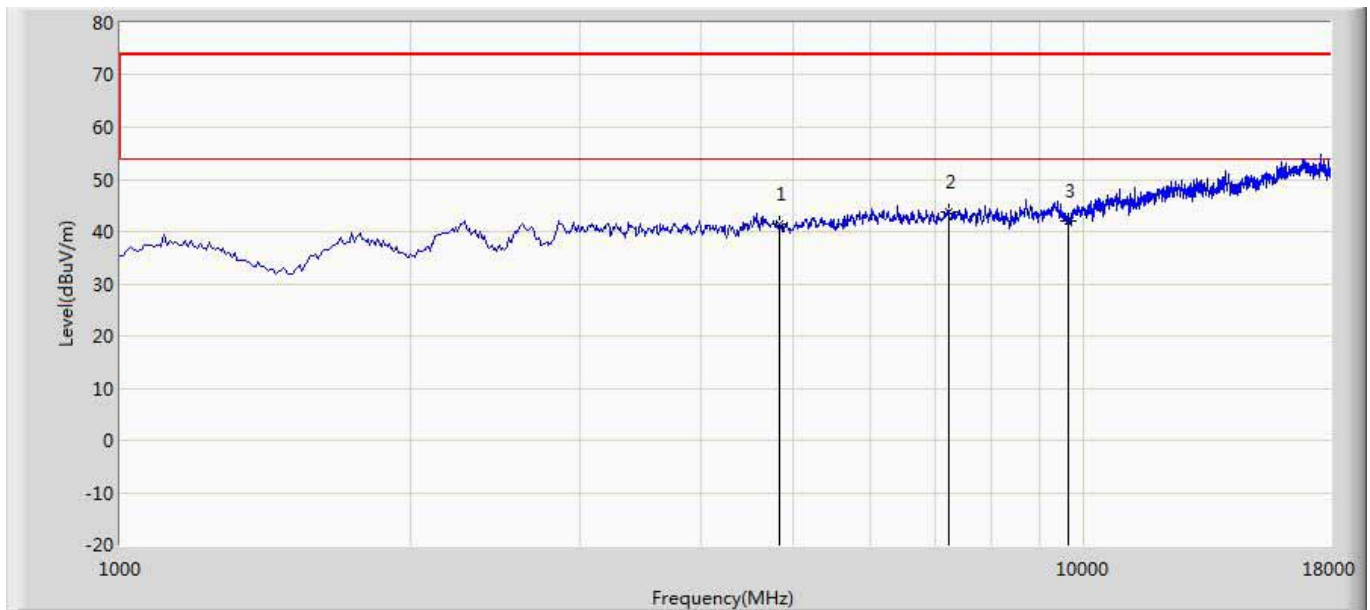
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	41.037	42.497	-32.963	74.000	-1.460	PK
2		7356.000	42.955	40.508	-31.045	74.000	2.447	PK
3	*	9808.000	43.114	38.186	-30.886	74.000	4.928	PK

Site: AC5	Time: 2018/05/23 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 12:Transmit at channel 2452MHz by 802.11N40 2*TX+2*RX Beamforming	



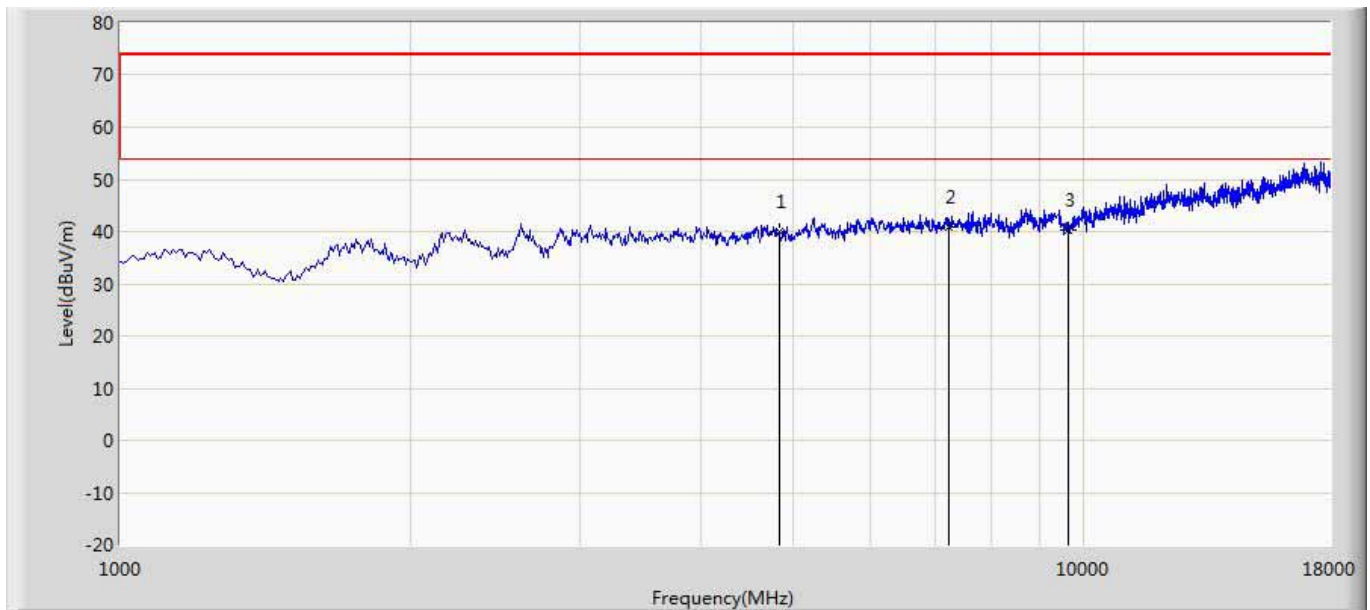
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	41.037	42.497	-32.963	74.000	-1.460	PK
2		7356.000	43.005	40.558	-30.995	74.000	2.447	PK
3	*	9808.000	43.132	38.204	-30.868	74.000	4.928	PK

Site: AC5	Time: 2018/05/23 - 19:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2412MHz by 802.11AC20 2*TX+2*RX Beamforming	



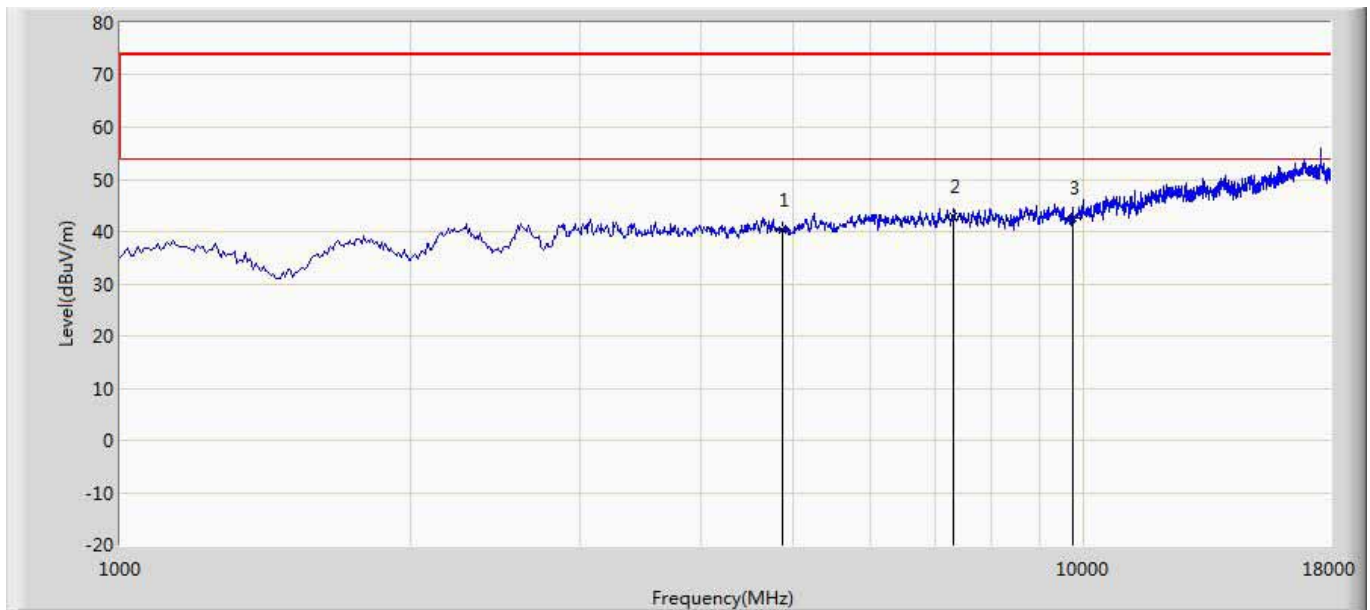
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.507	43.068	-32.493	74.000	-1.561	PK
2	*	7236.000	43.748	41.424	-30.252	74.000	2.323	PK
3		9648.000	41.925	37.897	-32.075	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2412MHz by 802.11AC20 2*TX+2*RX Beamforming	



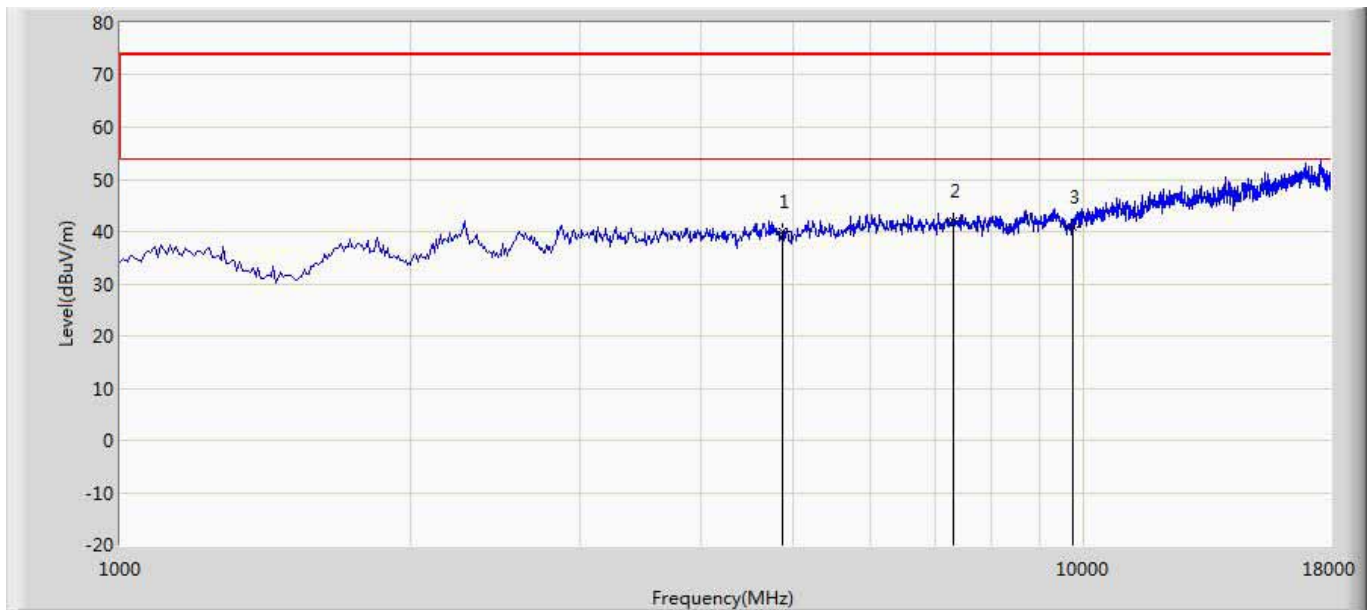
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.961	41.522	-34.039	74.000	-1.561	PK
2	*	7236.000	40.789	38.465	-33.211	74.000	2.323	PK
3		9648.000	40.430	36.402	-33.570	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2437MHz by 802.11AC20 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.355	41.967	-33.645	74.000	-1.612	PK
2	*	7311.000	42.925	40.050	-31.075	74.000	2.875	PK
3		9748.000	42.553	38.339	-31.447	74.000	4.214	PK

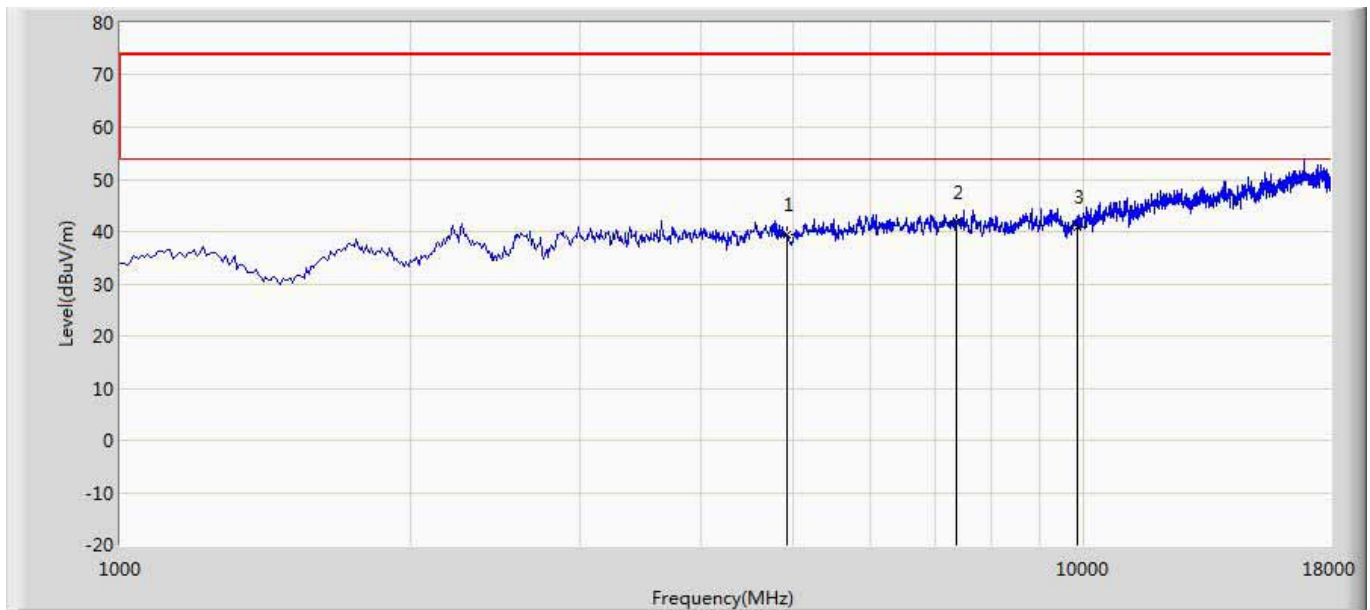
Site: AC5	Time: 2018/05/23 - 19:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2437MHz by 802.11AC20 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.860	41.472	-34.140	74.000	-1.612	PK
2	*	7311.000	42.093	39.218	-31.907	74.000	2.875	PK
3		9748.000	40.993	36.779	-33.007	74.000	4.214	PK

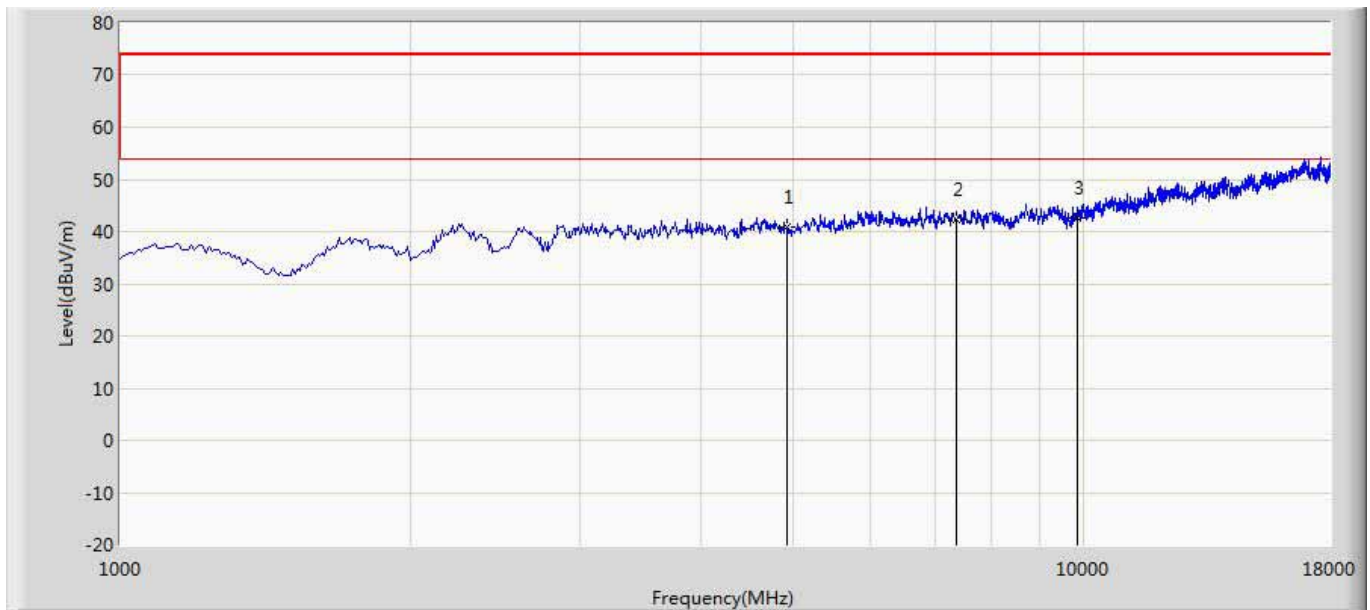


Site: AC5	Time: 2018/05/23 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2462MHz by 802.11AC20 2*TX+2*RX Beamforming	



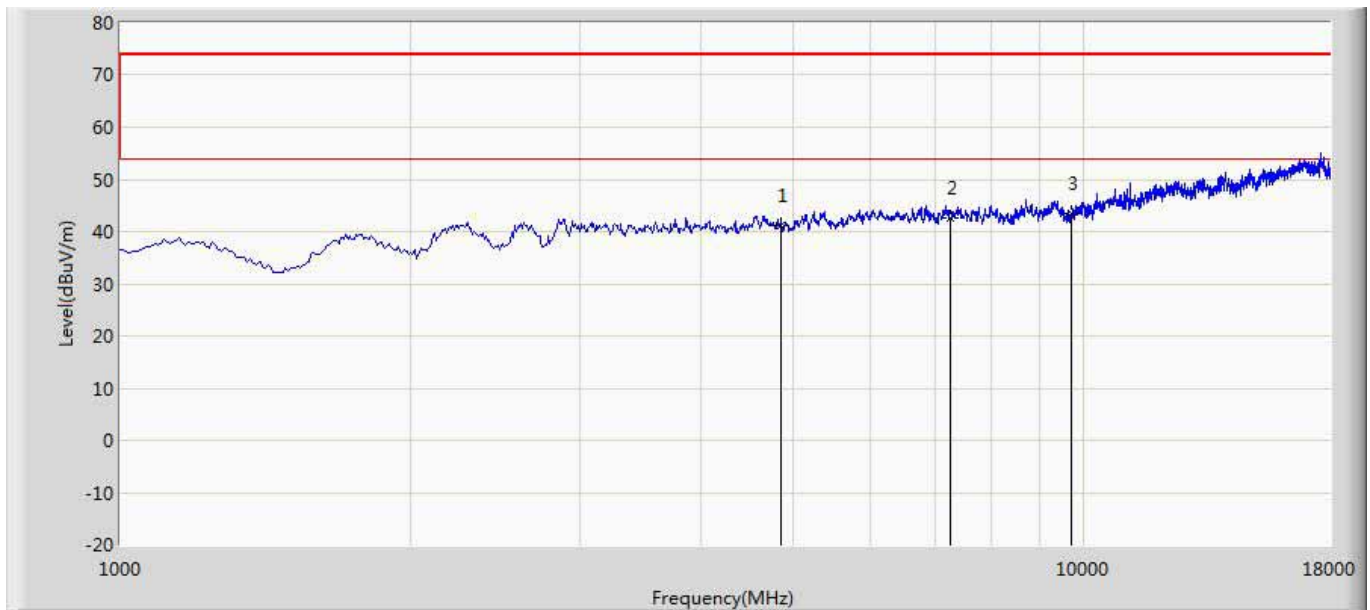
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	39.345	40.345	-34.655	74.000	-1.001	PK
2	*	7386.000	41.805	39.700	-32.195	74.000	2.105	PK
3		9848.000	40.929	35.859	-33.071	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 13:Transmit at channel 2462MHz by 802.11AC20 2*TX+2*RX Beamforming	



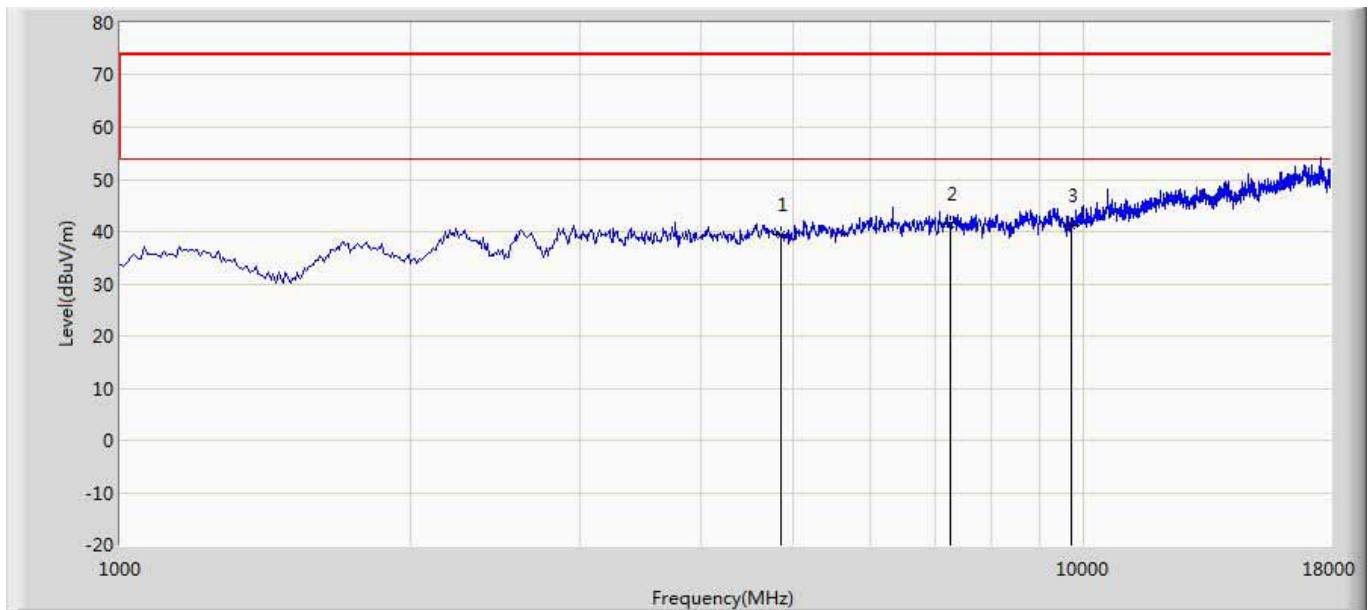
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.795	41.795	-33.205	74.000	-1.001	PK
2		7386.000	42.430	40.325	-31.570	74.000	2.105	PK
3	*	9848.000	42.555	37.485	-31.445	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2422MHz by 802.11AC40 2*TX+2*RX Beamforming	



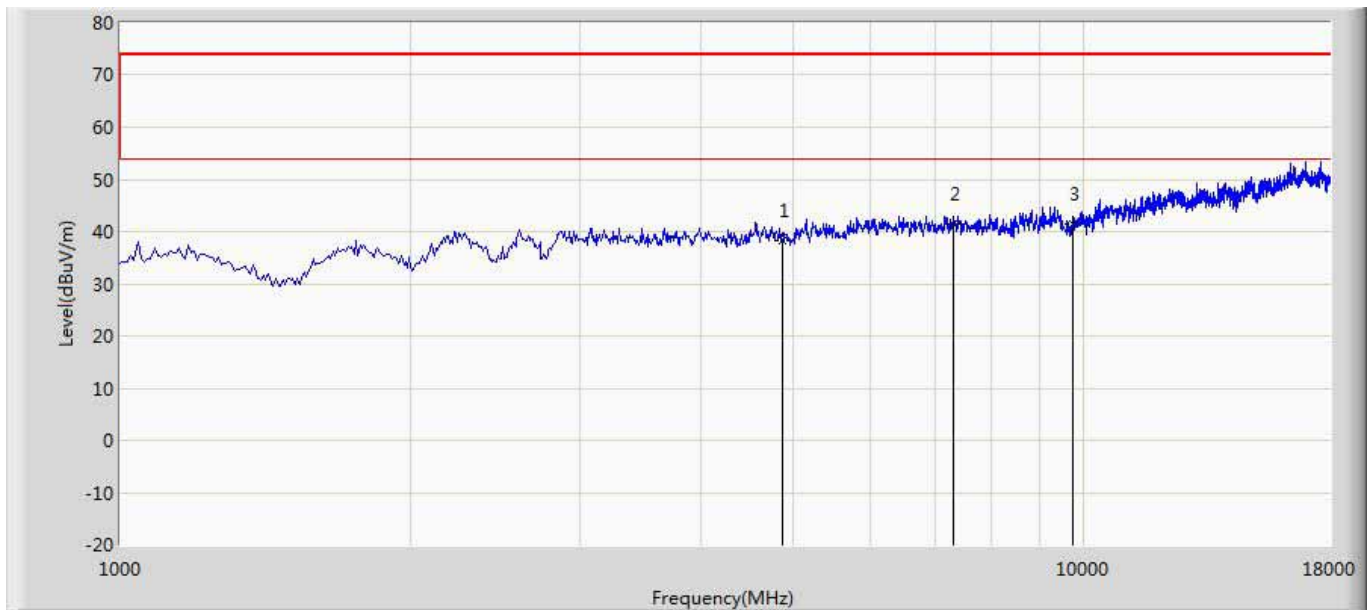
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	41.240	43.057	-32.760	74.000	-1.818	PK
2		7266.000	42.680	40.630	-31.320	74.000	2.050	PK
3	*	9688.000	43.422	38.692	-30.578	74.000	4.729	PK

Site: AC5	Time: 2018/05/23 - 19:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2422MHz by 802.11AC40 2*TX+2*RX Beamforming	



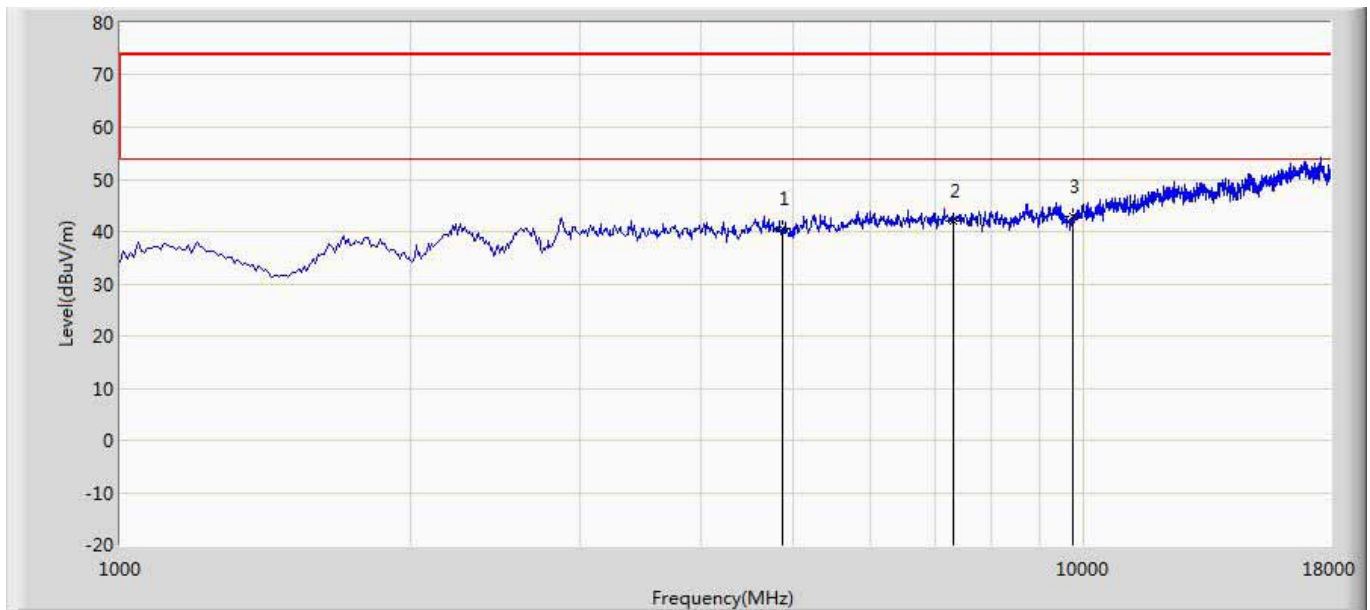
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	39.410	41.227	-34.590	74.000	-1.818	PK
2	*	7266.000	41.405	39.355	-32.595	74.000	2.050	PK
3		9688.000	41.171	36.441	-32.829	74.000	4.729	PK

Site: AC5	Time: 2018/05/23 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2437MHz by 802.11AC40 2*TX+2*RX Beamforming	



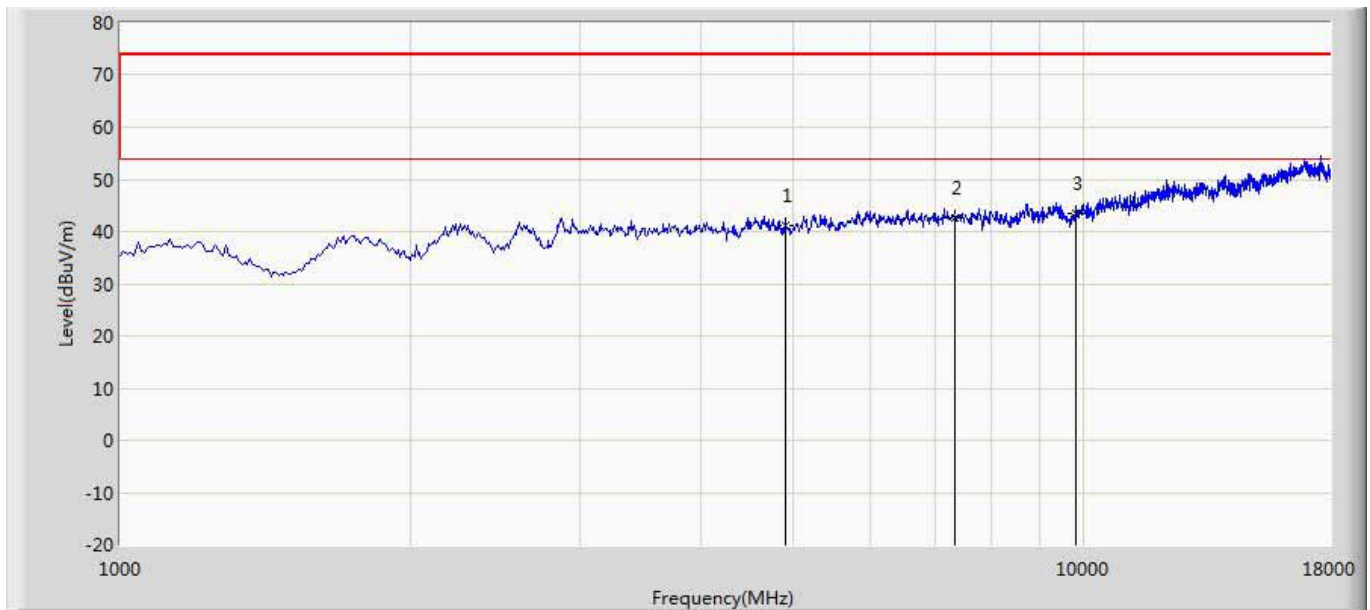
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.310	39.922	-35.690	74.000	-1.612	PK
2	*	7311.000	41.449	38.574	-32.551	74.000	2.875	PK
3		9748.000	41.426	37.212	-32.574	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2437MHz by 802.11AC40 2*TX+2*RX Beamforming	



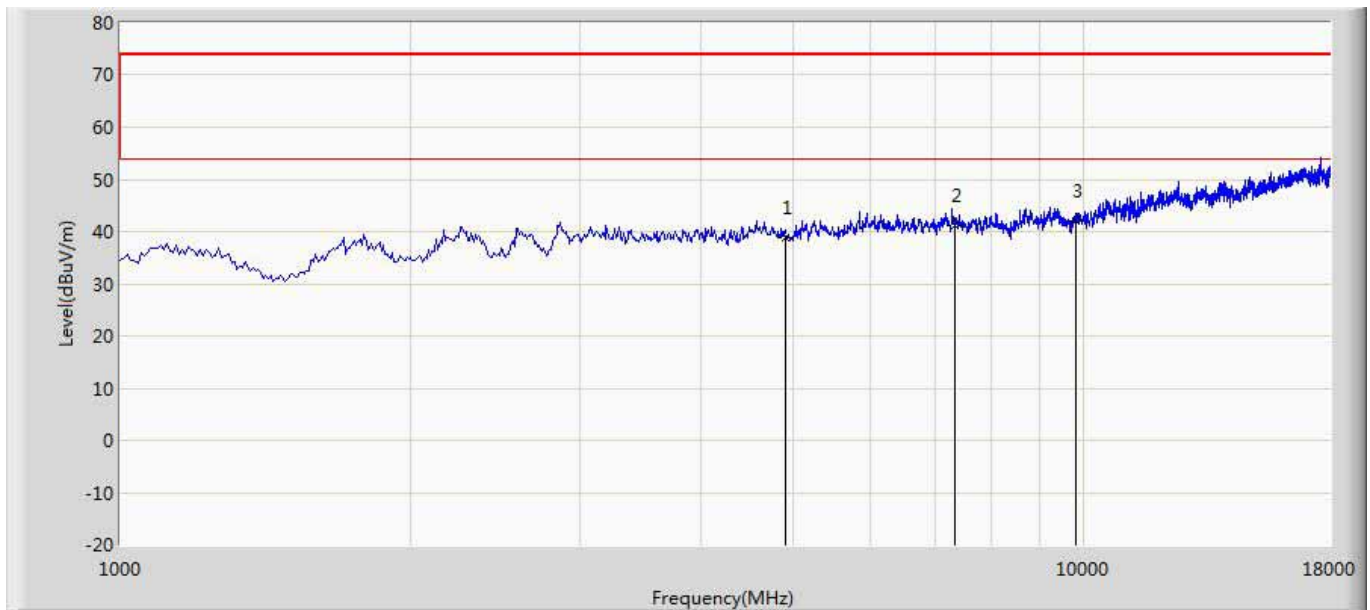
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.701	42.313	-33.299	74.000	-1.612	PK
2		7311.000	41.967	39.092	-32.033	74.000	2.875	PK
3	*	9748.000	42.956	38.742	-31.044	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2452MHz by 802.11AC40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	41.299	42.759	-32.701	74.000	-1.460	PK
2		7356.000	42.690	40.243	-31.310	74.000	2.447	PK
3	*	9808.000	43.606	38.678	-30.394	74.000	4.928	PK

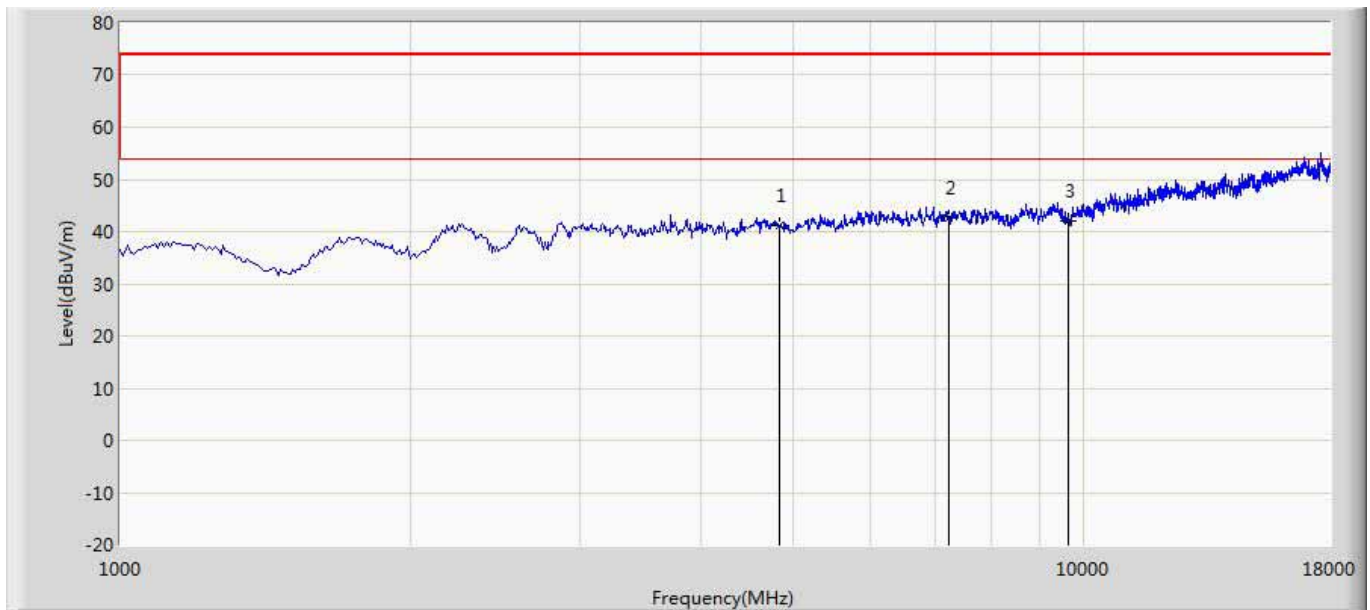
Site: AC5	Time: 2018/05/23 - 19:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 14:Transmit at channel 2452MHz by 802.11AC40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	38.938	40.398	-35.062	74.000	-1.460	PK
2		7356.000	41.078	38.631	-32.922	74.000	2.447	PK
3	*	9808.000	41.984	37.056	-32.016	74.000	4.928	PK

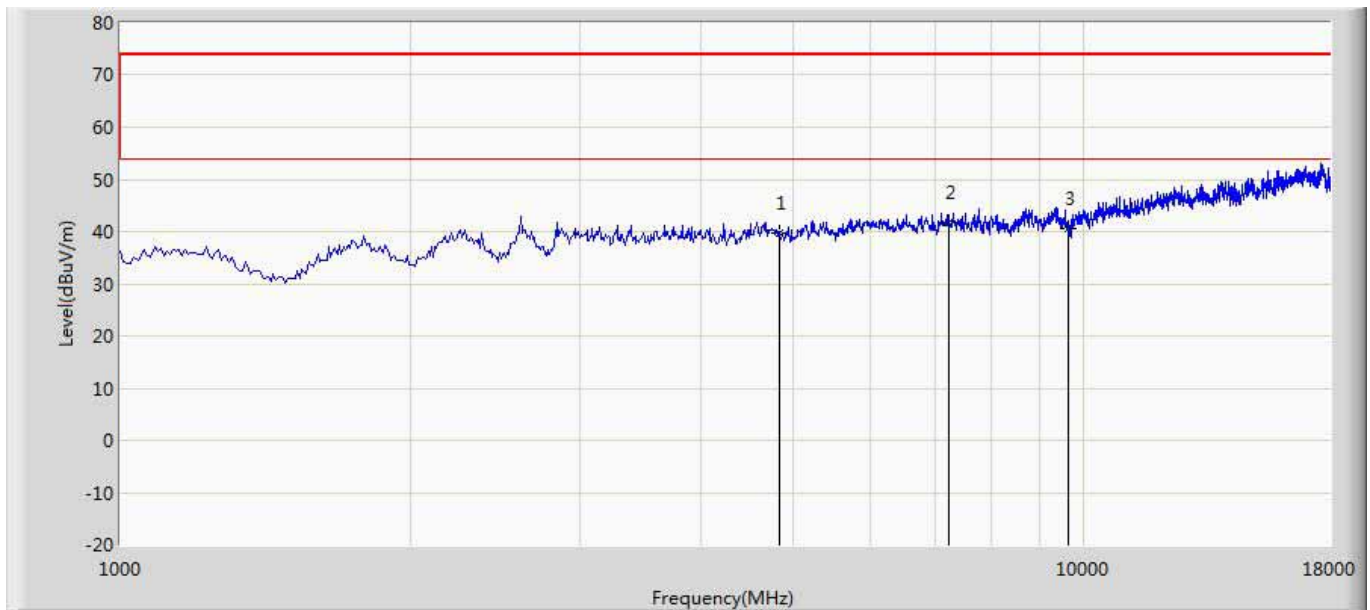


Site: AC5	Time: 2018/05/23 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2412MHz by 802.11AX20 2*TX+2*RX Beamforming	



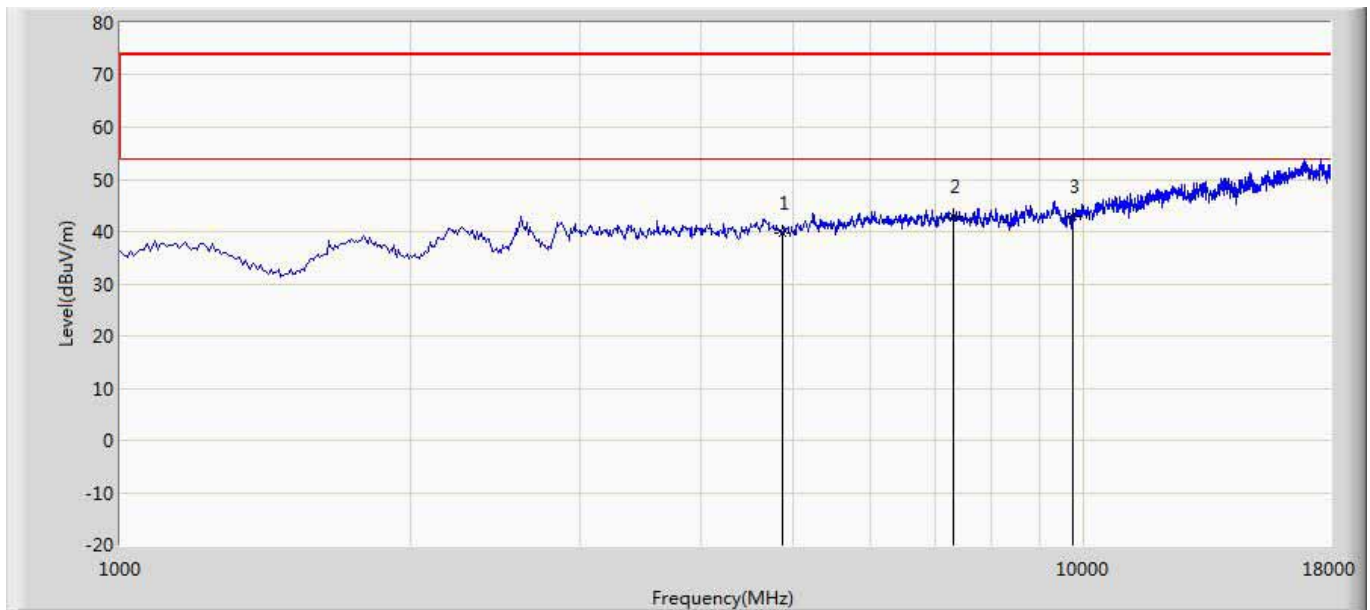
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	41.191	42.752	-32.809	74.000	-1.561	PK
2	*	7236.000	42.534	40.210	-31.466	74.000	2.323	PK
3		9648.000	42.009	37.981	-31.991	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2412MHz by 802.11AX20 2*TX+2*RX Beamforming	



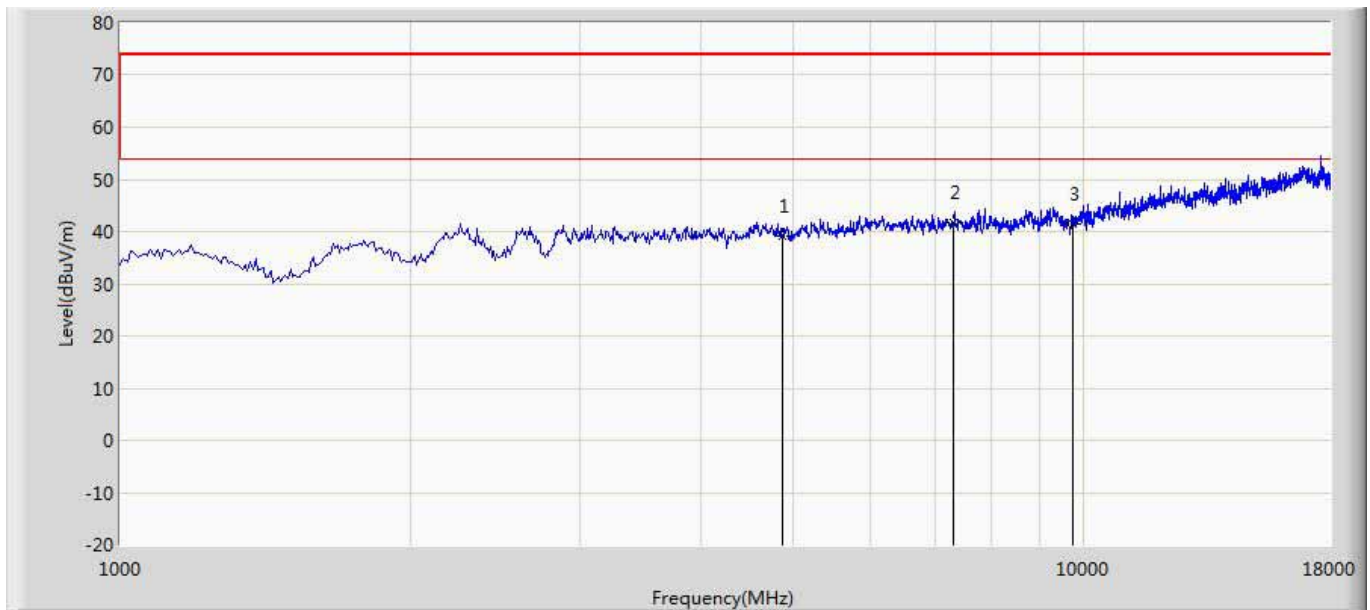
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.847	41.408	-34.153	74.000	-1.561	PK
2	*	7236.000	41.793	39.469	-32.207	74.000	2.323	PK
3		9648.000	40.497	36.469	-33.503	74.000	4.028	PK

Site: AC5	Time: 2018/05/23 - 19:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2437MHz by 802.11AX20 2*TX+2*RX Beamforming	



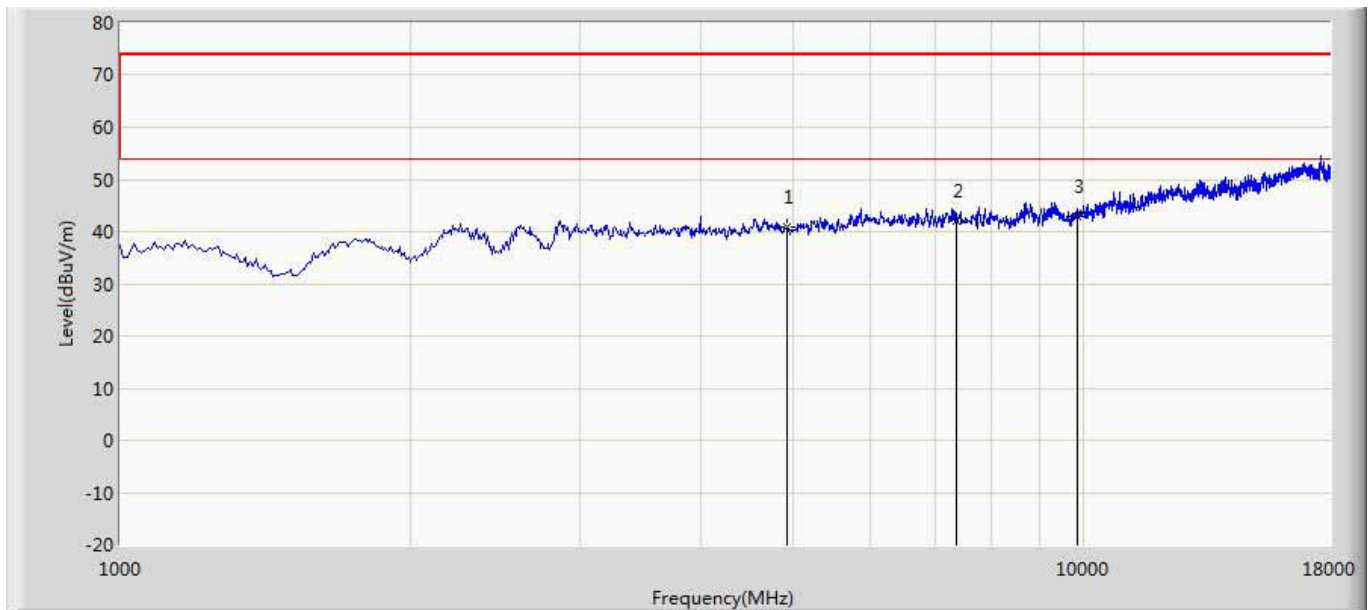
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.842	41.454	-34.158	74.000	-1.612	PK
2	*	7311.000	43.001	40.126	-30.999	74.000	2.875	PK
3		9748.000	42.840	38.626	-31.160	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2437MHz by 802.11AX20 2*TX+2*RX Beamforming	



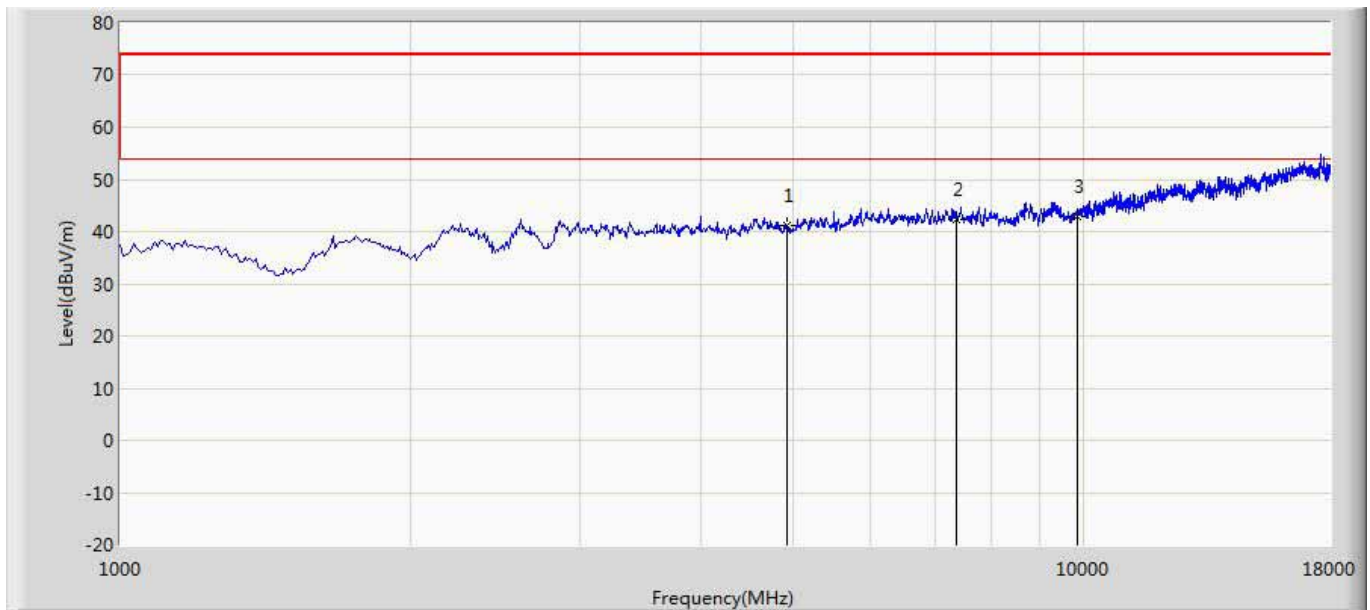
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.099	40.711	-34.901	74.000	-1.612	PK
2	*	7311.000	41.644	38.769	-32.356	74.000	2.875	PK
3		9748.000	41.367	37.153	-32.633	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2462MHz by 802.11AX20 2*TX+2*RX Beamforming	



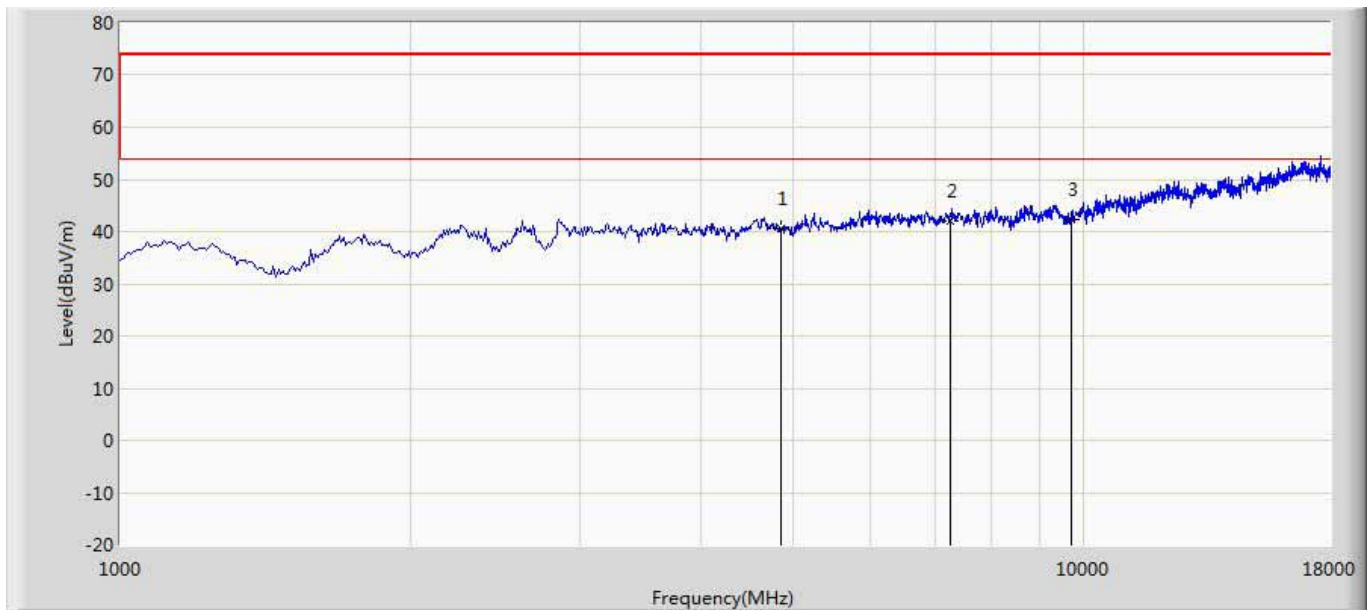
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.960	41.960	-33.040	74.000	-1.001	PK
2		7386.000	41.974	39.869	-32.026	74.000	2.105	PK
3	*	9848.000	42.880	37.810	-31.120	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 15:Transmit at channel 2462MHz by 802.11AX20 2*TX+2*RX Beamforming	



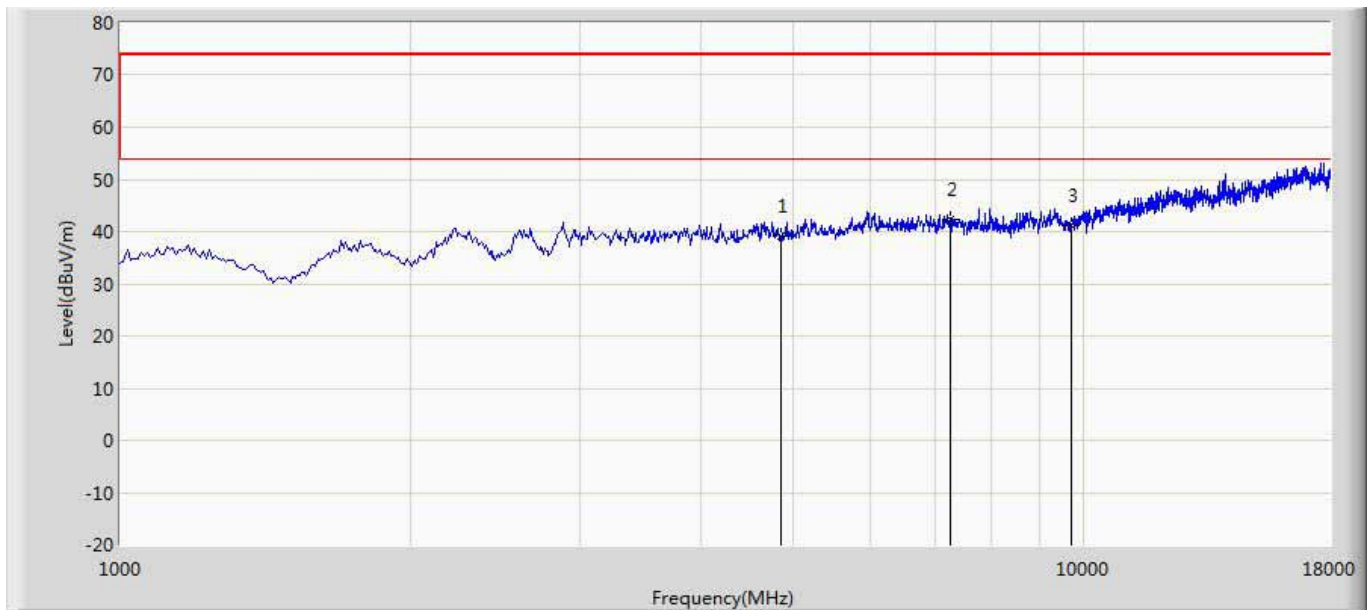
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.108	42.108	-32.892	74.000	-1.001	PK
2		7386.000	42.257	40.152	-31.743	74.000	2.105	PK
3	*	9848.000	42.908	37.838	-31.092	74.000	5.070	PK

Site: AC5	Time: 2018/05/23 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2422MHz by 802.11AX40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	40.595	42.412	-33.405	74.000	-1.818	PK
2		7266.000	42.054	40.004	-31.946	74.000	2.050	PK
3	*	9688.000	42.258	37.528	-31.742	74.000	4.729	PK

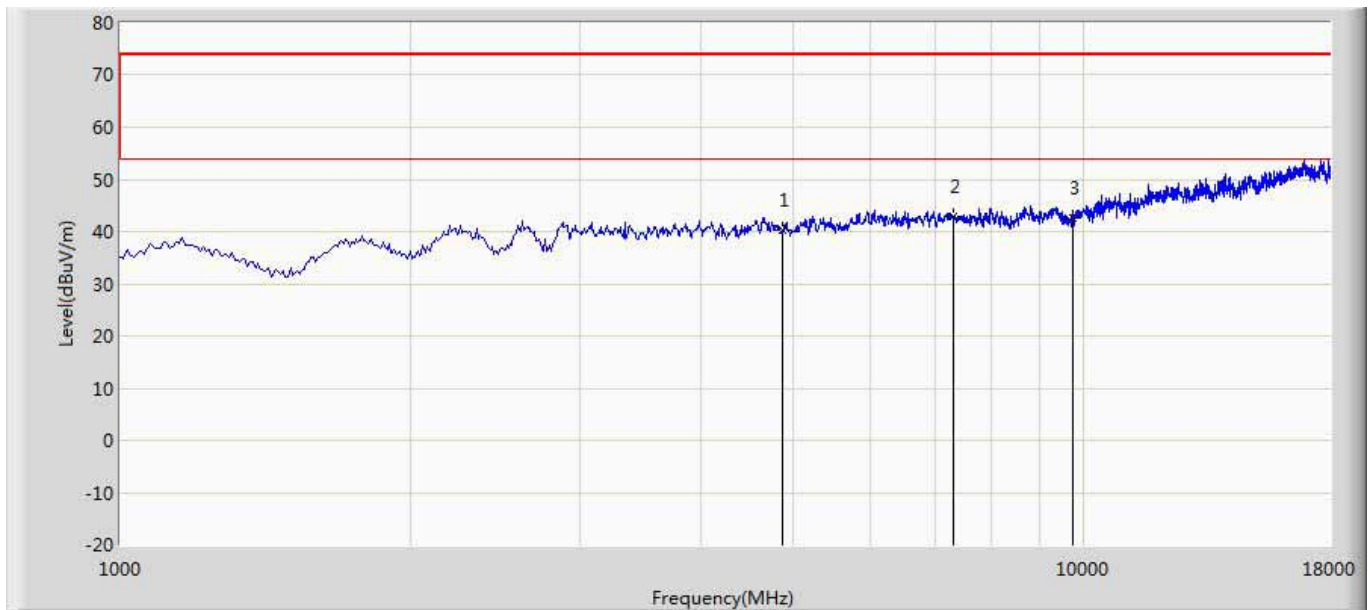
Site: AC5	Time: 2018/05/23 - 19:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2422MHz by 802.11AX40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	39.054	40.871	-34.946	74.000	-1.818	PK
2	*	7266.000	42.183	40.133	-31.817	74.000	2.050	PK
3		9688.000	41.159	36.429	-32.841	74.000	4.729	PK

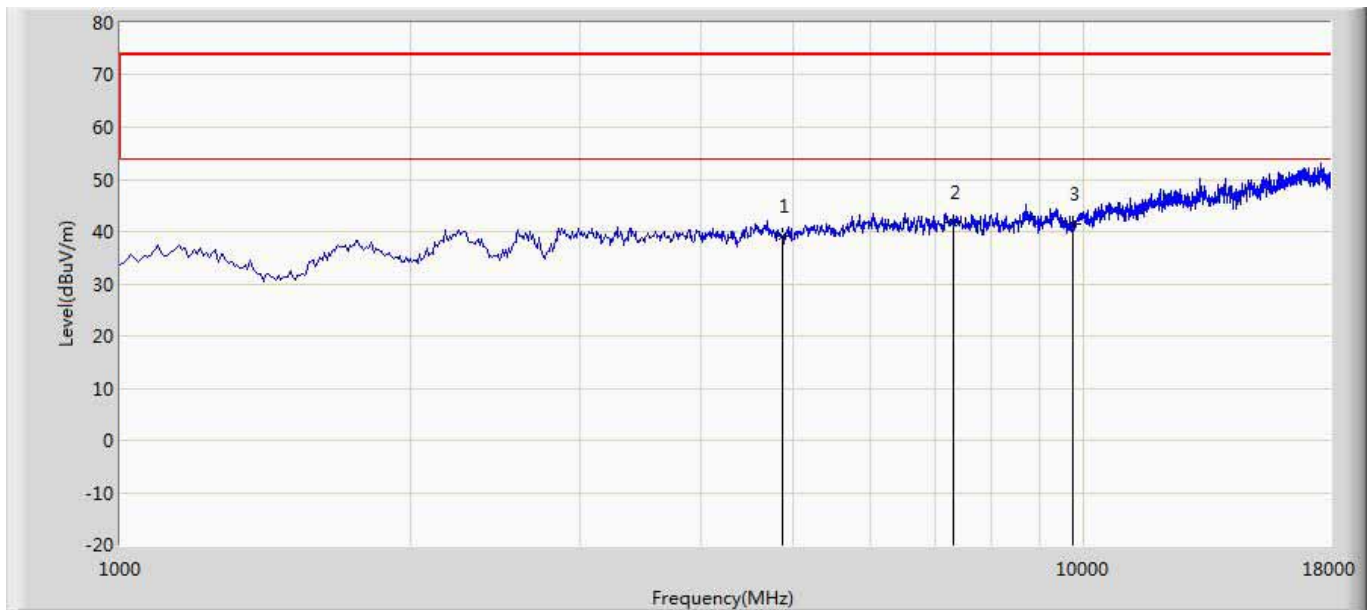


Site: AC5	Time: 2018/05/23 - 19:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2437MHz by 802.11AX40 2*TX+2*RX Beamforming	



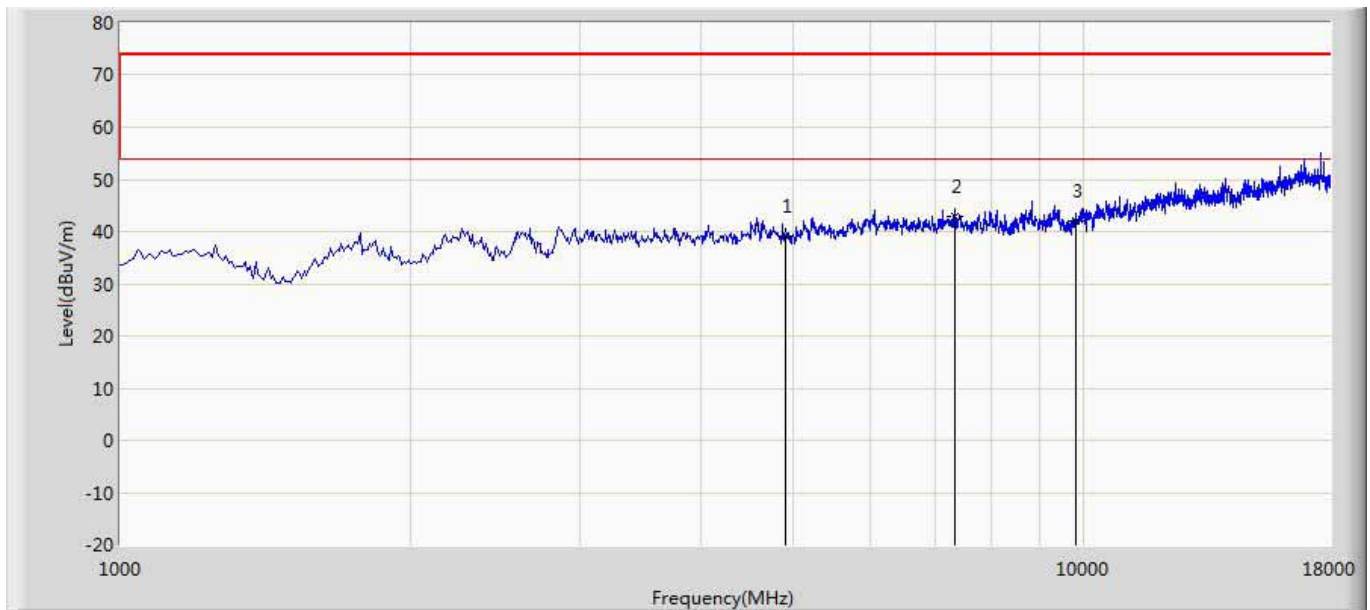
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.361	41.973	-33.639	74.000	-1.612	PK
2	*	7311.000	42.796	39.921	-31.204	74.000	2.875	PK
3		9748.000	42.738	38.524	-31.262	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2437MHz by 802.11AX40 2*TX+2*RX Beamforming	



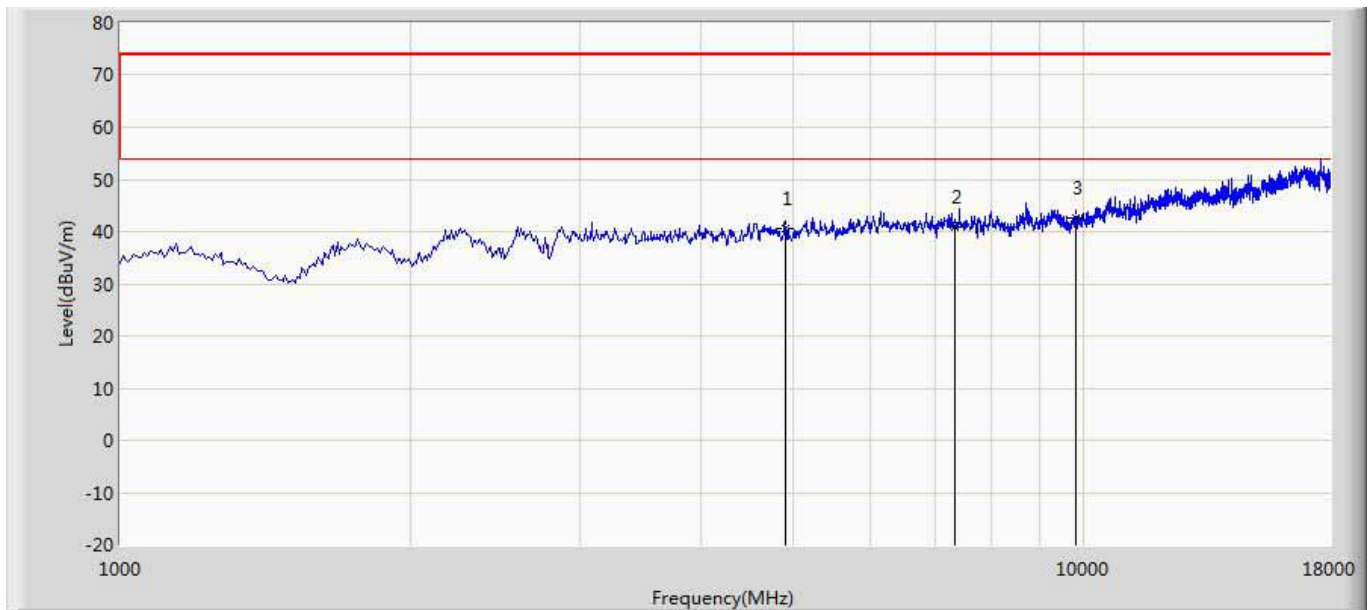
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.120	40.732	-34.880	74.000	-1.612	PK
2	*	7311.000	41.826	38.951	-32.174	74.000	2.875	PK
3		9748.000	41.543	37.329	-32.457	74.000	4.214	PK

Site: AC5	Time: 2018/05/23 - 19:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2452MHz by 802.11AX40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	39.264	40.724	-34.736	74.000	-1.460	PK
2	*	7356.000	43.018	40.571	-30.982	74.000	2.447	PK
3		9808.000	42.053	37.125	-31.947	74.000	4.928	PK

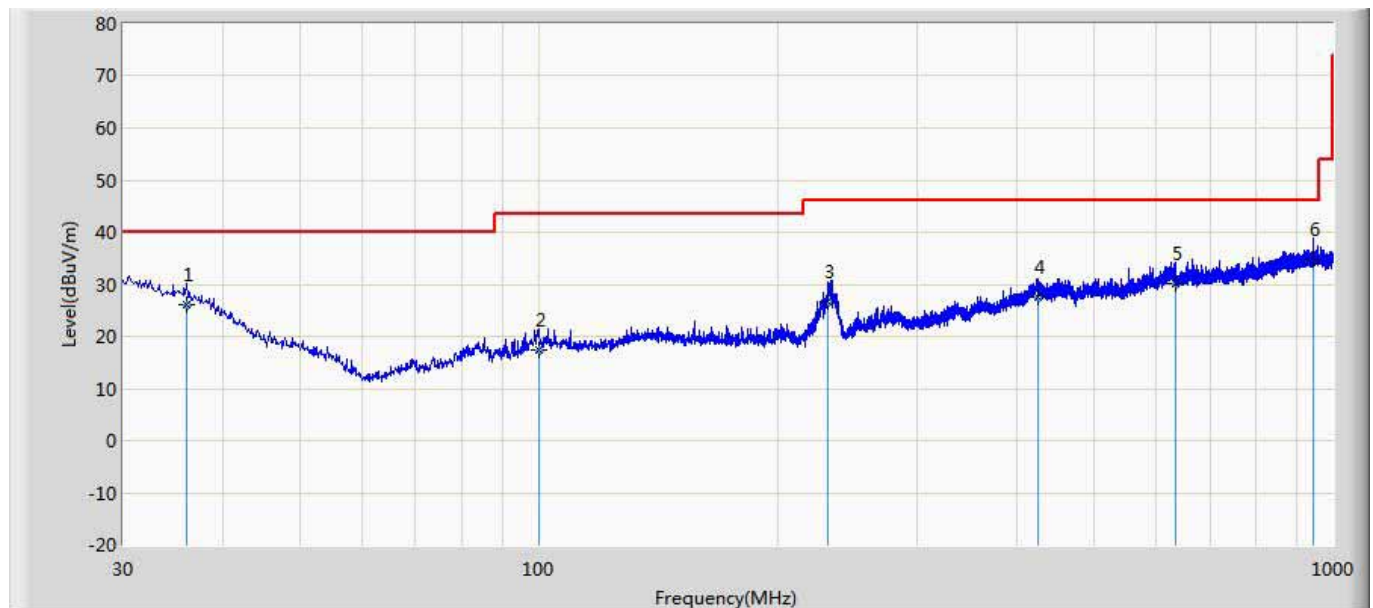
Site: AC5	Time: 2018/05/23 - 19:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 16:Transmit at channel 2452MHz by 802.11AX40 2*TX+2*RX Beamforming	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	40.682	42.142	-33.318	74.000	-1.460	PK
2		7356.000	40.918	38.471	-33.082	74.000	2.447	PK
3	*	9808.000	42.734	37.806	-31.266	74.000	4.928	PK

### The worst case of Simultaneous Radiated Emission:

Engineer: Samuel	
Site: AC3	Time: 2018/05/14
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: Wireless Access Point	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		36.062	26.160	0.600	-13.840	40.000	19.062	6.498	0.000	100	231	QP
2		99.961	17.314	0.500	-26.186	43.500	9.966	6.849	0.000	100	157	QP
3		231.275	26.535	8.100	-19.465	46.000	11.046	7.388	0.000	100	352	QP
4		424.669	27.627	0.200	-18.373	46.000	19.458	7.969	0.000	100	311	QP
5		632.734	30.207	1.100	-15.793	46.000	20.599	8.508	0.000	100	285	QP
6	*	943.497	34.799	2.400	-11.201	46.000	23.210	9.189	0.000	100	154	QP

#### Note:

1. " \* ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Engineer: Samuel

Site: AC3

Time: 2018/05/14

Limit: FCC\_Part15.109\_RE(3m)\_ClassB

Margin: 0

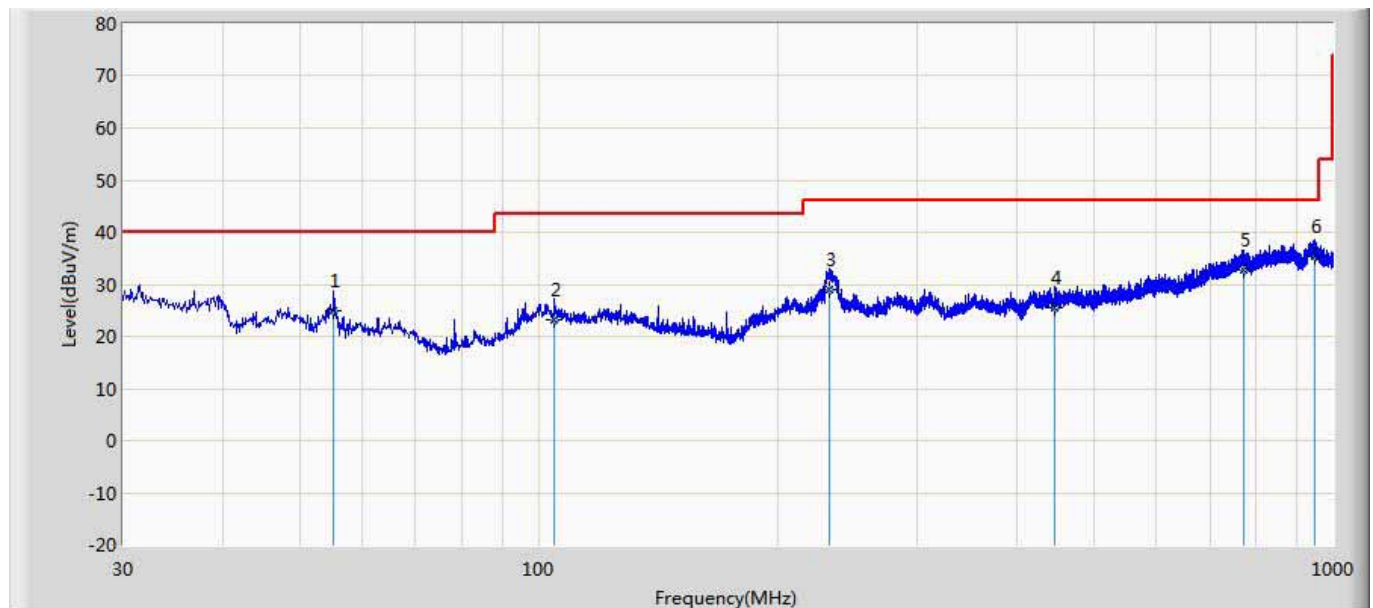
Probe: AC3\_3m (30-1000MHz)

Polarity: Vertical

EUT: Wireless Access Point

Power: AC 120V/60Hz

Note: Mode 1



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		55.220	24.830	8.000	-15.170	40.000	10.210	6.620	0.000	100	360	QP
2		104.690	23.322	1.300	-20.178	43.500	15.153	6.869	0.000	200	199	QP
3		232.245	28.960	6.500	-17.040	46.000	15.067	7.394	0.000	100	207	QP
4		447.221	25.610	0.500	-20.390	46.000	17.082	8.028	0.000	100	348	QP
5		771.201	32.650	0.300	-13.350	46.000	23.531	8.819	0.000	100	311	QP
6	*	947.862	35.224	0.300	-10.776	46.000	25.728	9.197	0.000	100	154	QP

Note:

1. " \* ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

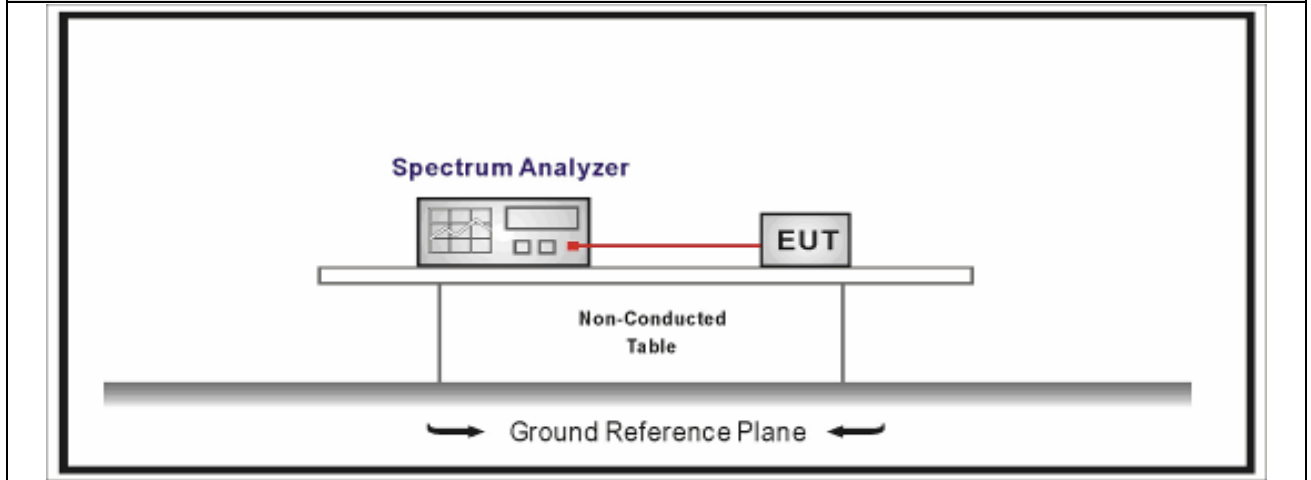
## 5. Emissions in non-restricted frequency bands

### 5.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## 5.2. Test Setup

Emissions in non-restricted frequency bands





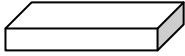
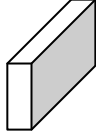
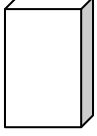



### 5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)
<p>Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).</p> <p>Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).</p>	

## 5.4. Test Procedure

Test Method					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		11.11	Emissions in non-restricted frequency bands	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.11.2	Reference level measurement	
	<input checked="" type="checkbox"/>	ANSI C63.10	11.11.3	Emission level measurement	
<input type="checkbox"/>	ANSI C63.10		11.12	Emissions in restricted frequency bands	
	<input type="checkbox"/>	ANSI C63.10	11.12.1	Radiated emission measurements	
	<input type="checkbox"/>	ANSI C63.10	11.12.2.7	Radiated spurious emission test	
<input type="checkbox"/>	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
<input type="checkbox"/>	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
<input type="checkbox"/>	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
	<input type="checkbox"/>	ANSI C63.10		11.12.2	Antenna-port conducted measurements
		<input type="checkbox"/>	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		<input type="checkbox"/>	ANSI C63.10	11.12.2.4	Peak power measurement procedure
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5	Average power measurement procedures
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

## 5.5. EUT test Axis definition

Item	Emissions in non-restricted frequency bands			
Device Category	<input type="checkbox"/>	Fixed point-to-point		
	<input type="checkbox"/>	Emit multiple directional beams, simultaneously or sequentially		
	<input checked="" type="checkbox"/>	Other cases		
Test mode	Mode 1 ~ Mode 3			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input type="checkbox"/>	Chain 1		
				
	<input checked="" type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 5.6. Test Result

Product Name	:	Wireless Access point	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~3	Test Site	:	TR8
Test Date	:	2018.01.05	Test Engineer	:	Eric

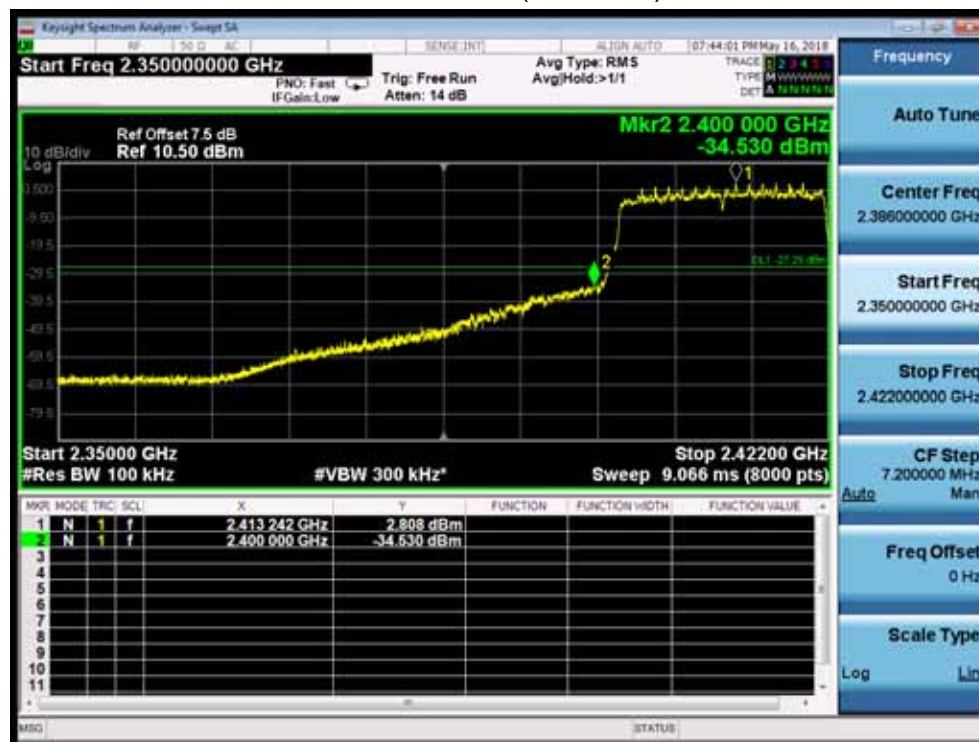
### 2TX\*2RX

Mode	Channel	Test Frequency (MHz)	Maximum In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	13.084	2400	-34.250	47.334	>20	Pass
1	11	2462	12.588	2500	-49.225	61.813	>20	Pass
2	01	2412	3.449	2400	-40.974	44.423	>20	Pass
2	11	2462	2.018	2500	-55.160	57.178	>20	Pass
3	01	2412	3.677	2400	-40.438	44.115	>20	Pass
3	11	2462	2.529	2500	-56.764	59.293	>20	Pass
4	03	2422	-0.445	2400	-47.118	46.673	>20	Pass
4	09	2452	-2.709	2500	-56.463	53.754	>20	Pass
5	01	2412	3.762	2400	-42.529	46.291	>20	Pass
5	11	2462	2.660	2500	-58.467	61.127	>20	Pass
6	03	2422	-0.366	2400	-47.986	47.620	>20	Pass
6	09	2452	-2.777	2500	-57.738	54.961	>20	Pass
7	01	2412	2.808	2400	-34.530	37.388	>20	Pass
7	11	2462	1.629	2500	-57.674	59.303	>20	Pass
8	03	2422	-0.578	2400	-46.144	45.566	>20	Pass

8	09	2452	-3.132	2500	-57.172	54.040	>20	Pass
9	01	2412	7.275	2400	-51.889	59.164	>20	Pass
9	11	2462	6.261	2500	-59.053	65.314	>20	Pass
10	01	2412	1.749	2400	-43.945	45.694	>20	Pass
10	11	2462	-1.720	2500	-60.670	58.950	>20	Pass
11	01	2412	1.174	2400	-45.029	46.203	>20	Pass
11	11	2462	-1.667	2500	-60.749	59.082	>20	Pass
12	03	2422	0.550	2400	-45.531	46.081	>20	Pass
12	09	2452	-5.187	2500	-60.332	55.145	>20	Pass
13	01	2412	0.404	2400	-45.313	45.717	>20	Pass
13	11	2462	-2.424	2500	-61.347	58.923	>20	Pass
14	03	2422	-4.219	2400	-53.728	49.509	>20	Pass
14	09	2452	-5.240	2500	-61.161	55.921	>20	Pass
15	01	2412	0.464	2400	-45.531	45.995	>20	Pass
15	11	2462	-2.479	2500	-62.538	60.059	>20	Pass
16	03	2422	-4.733	2400	-53.517	48.784	>20	Pass
16	09	2452	-5.327	2500	-62.220	56.893	>20	Pass

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 7 CH01(2412MHz)

**4TX\*4RX**

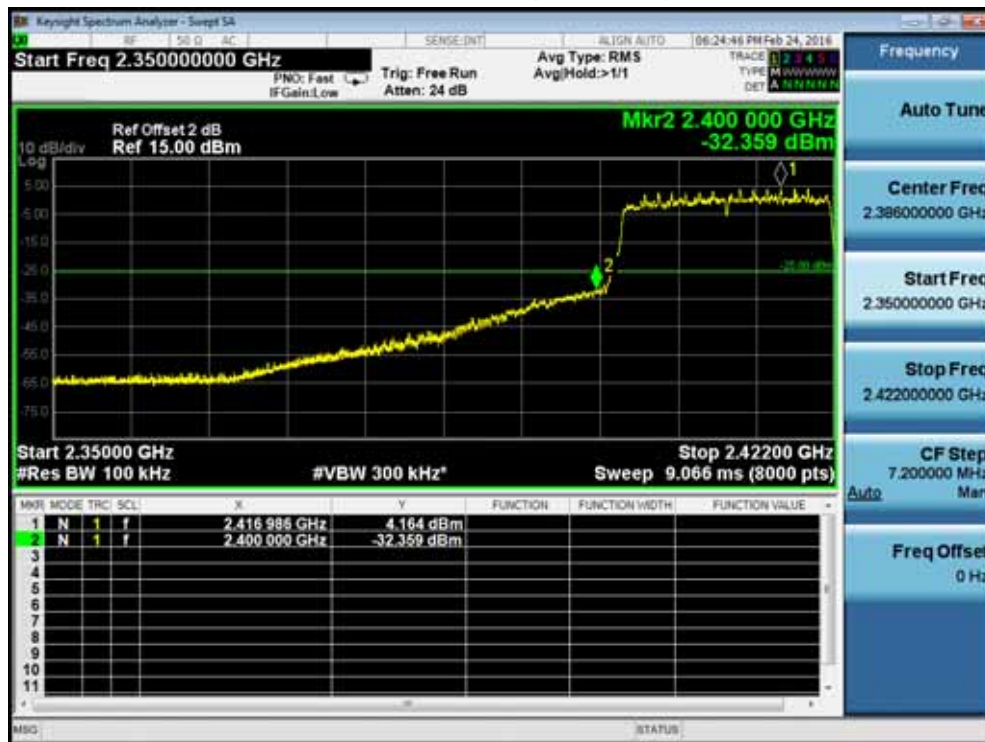
Mode	Channel	Test Frequency (MHz)	Maximum In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	6.614	2400	-54.693	61.307	>20	Pass
1	11	2462	4.929	2500	-59.110	64.039	>20	Pass
2	01	2412	0.858	2400	-44.973	45.831	>20	Pass
2	11	2462	-2.174	2500	-60.946	58.772	>20	Pass
3	01	2412	-0.270	2400	-46.049	45.779	>20	Pass
3	11	2462	-4.260	2500	-61.654	57.394	>20	Pass
4	03	2422	-5.220	2400	-50.903	45.683	>20	Pass
4	09	2452	-6.159	2500	-60.583	54.424	>20	Pass
5	01	2412	-0.634	2400	-46.524	45.890	>20	Pass

5	11	2462	-3.235	2500	-61.930	58.695	>20	Pass
6	03	2422	-5.448	2400	-53.775	48.327	>20	Pass
6	09	2452	-5.752	2500	-61.398	55.646	>20	Pass
7	01	2412	-0.486	2400	-44.973	44.487	>20	Pass
7	11	2462	-3.039	2500	-60.673	57.634	>20	Pass
8	03	2422	-5.328	2400	-53.834	48.506	>20	Pass
8	09	2452	-6.182	2500	-60.842	54.660	>20	Pass
9	01	2412	13.749	2400	-33.472	47.221	>20	Pass
9	11	2462	13.023	2500	-51.762	64.785	>20	Pass
10	01	2412	4.798	2400	-37.757	42.555	>20	Pass
10	11	2462	3.247	2500	-57.641	60.888	>20	Pass
11	01	2412	4.390	2400	-40.260	44.650	>20	Pass
11	11	2462	3.180	2500	-55.878	59.058	>20	Pass
12	03	2422	0.482	2400	-46.513	46.995	>20	Pass
12	09	2452	-1.767	2500	-57.382	55.615	>20	Pass
13	01	2412	4.413	2400	-41.235	45.648	>20	Pass
13	11	2462	3.291	2500	-57.307	60.598	>20	Pass
14	03	2422	0.357	2400	-47.043	47.400	>20	Pass
14	09	2452	-2.480	2500	-57.739	55.259	>20	Pass
15	01	2412	4.164	2400	-32.359	36.523	>20	Pass

15	11	2462	3.211	2500	-55.288	58.499	>20	Pass
16	03	2422	0.365	2400	-46.376	46.741	>20	Pass
16	09	2452	-2.108	2500	-57.551	55.443	>20	Pass

Note: The worst case of emissions in non-restricted frequency bands as below:

Mode 15 CH01(2412MHz)



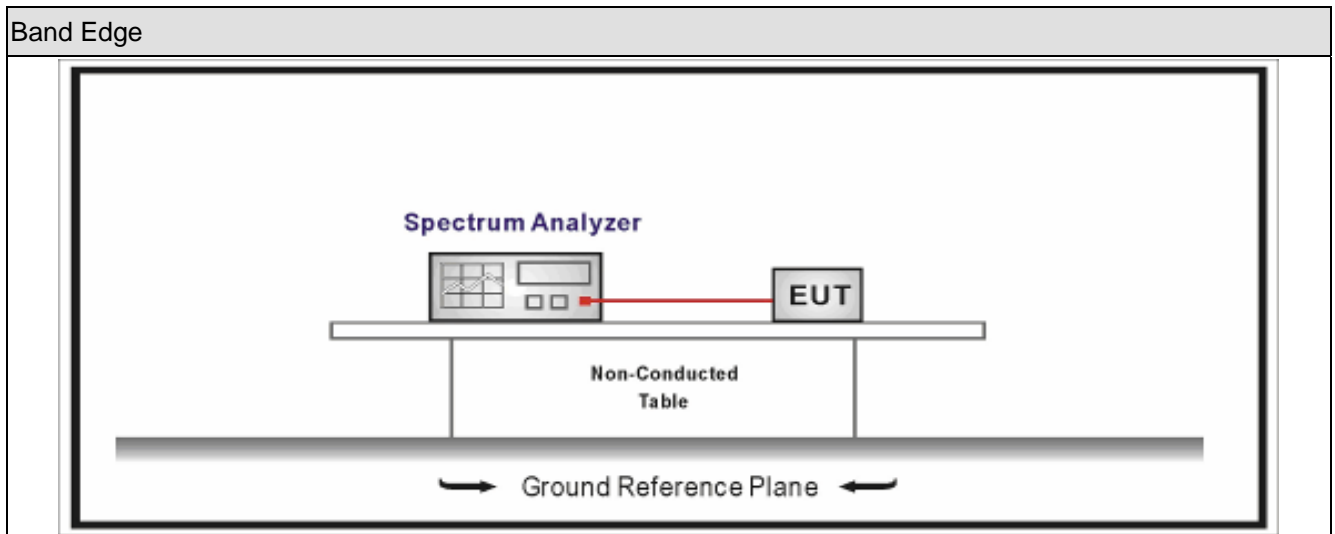


## 6. Band Edge

### 6.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

## 6.2. Test Setup



## 6.3. Limit

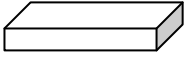
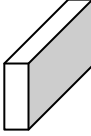
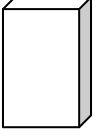
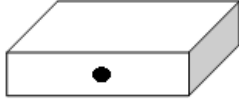


Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB $\mu$ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

## 6.4. Test Procedure

Band Edge					
	References Rule		Chapter	Description	
<input checked="" type="checkbox"/>	ANSI C63.10		6.10	Band-edge testing	
	<input type="checkbox"/>	ANSI C63.10	6.10.5	Restricted-band band-edge measurements	
	<input type="checkbox"/>	ANSI C63.10	6.10.6	Marker-delta method	
<input type="checkbox"/>	ANSI C63.10		11.12	Emissions in restricted frequency bands	
	<input type="checkbox"/>	ANSI C63.10	11.12.1	Radiated emission measurements	
	<input type="checkbox"/>	ANSI C63.10	11.12.2.7	Radiated spurious emission test	
<input type="checkbox"/>	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz	
<input type="checkbox"/>	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz	
<input type="checkbox"/>	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz	
	<input checked="" type="checkbox"/>	ANSI C63.10		11.12.2	Antenna-port conducted measurements
		<input type="checkbox"/>	ANSI C63.10	11.12.2.3	Quasi-peak measurement procedure
		<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.4	Peak power measurement procedure
		<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.5	Average power measurement procedures
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
		<input type="checkbox"/>	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
		<input checked="" type="checkbox"/>	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold


## 6.5. EUT test definition

Item	Radiated Emission Band Edge			
Device Category	<input type="checkbox"/>	Fixed point-to-point		
	<input type="checkbox"/>	Emit multiple directional beams, simultaneously or sequentially		
	<input checked="" type="checkbox"/>	Other cases		
Test mode	Mode 1~16			
Test method	<input type="checkbox"/>	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis <input checked="" type="checkbox"/>	Worst Axis <input type="checkbox"/>	Worst Axis <input type="checkbox"/>
	<input checked="" type="checkbox"/>	Conducted		
	<input checked="" type="checkbox"/>	Chain 1		
				
	<input type="checkbox"/>	Chain 1	Chain 2	
				
	<input type="checkbox"/>	Chain 1	Chain 2	Chain 3
				

## 6.6. Duty Cycle

**2\*TX+2\*RX:**

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.33	0.72	82Hz	13.05	94.48%
802.11g	2.06	0.11	510Hz	2.17	94.93%
802.11n(20MHz)	1.90	0.11	560Hz	2.01	94.53%
802.11n(40MHz)	0.94	0.11	1.1KHz	1.05	89.52%
802.11ac(20MHz)	1.92	0.04	560Hz	1.96	97.96%
802.11ac(40MHz)	0.94	0.04	1.1KHz	0.98	95.92%
802.11ax(20MHz)	1.49	0.03	680Hz	1.52	98.03%
802.11ax(40MHz)	0.76	0.05	1.5KHz	0.81	93.83%
802.11b with Beam-forming	12.33	0.72	82Hz	13.05	94.48%
802.11g with Beam-forming	2.06	0.11	510Hz	2.17	94.93%
802.11n(20MHz) with Beam-forming	1.90	0.11	560Hz	2.01	94.53%
802.11n(40MHz) with Beam-forming	0.94	0.11	1.1KHz	1.05	89.52%
802.11ac(20MHz) with Beam-forming	1.92	0.04	560Hz	1.96	97.96%
802.11ac(40MHz) with Beam-forming	0.94	0.04	1.1KHz	0.98	95.92%
802.11ax(20MHz) with Beam-forming	1.49	0.03	680Hz	1.52	98.03%
802.11ax(40MHz) with Beam-forming	0.76	0.05	1.5KHz	0.81	93.83%

[illegible][illegible][illegible][illegible]

Center Freq 2.437000000 GHz

Ref Offset 1.5 dB  
Ref 15.00 dBm

Peak 1 Freq 2.437000000 GHz  
Mag 0.41 dBm

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.437000000 GHz

Stop Freq 2.437000000 GHz

CF Stop 8.000000 MHz

Freq Offset 0 Hz

Scale Type Lin

Center 2.437000000 GHz  
Res BW 6.0 MHz  
Sweep 10.00 ms (2001 pts)  
Span 0 Hz

Line	Mag	Freq	dBm	dBc	dBm/Hz	dBc/Hz	dBm/100kHz	dBc/100kHz
1	0.41	2.437000000	0.19	-	-	-	-	-
2	0.41	2.437000000	0.19	-	-	-	-	-
3	0.41	2.437000000	0.19	-	-	-	-	-
4	0.41	2.437000000	0.19	-	-	-	-	-
5	0.41	2.437000000	0.19	-	-	-	-	-
6	0.41	2.437000000	0.19	-	-	-	-	-
7	0.41	2.437000000	0.19	-	-	-	-	-
8	0.41	2.437000000	0.19	-	-	-	-	-
9	0.41	2.437000000	0.19	-	-	-	-	-
10	0.41	2.437000000	0.19	-	-	-	-	-
11	0.41	2.437000000	0.19	-	-	-	-	-
12	0.41	2.437000000	0.19	-	-	-	-	-
13	0.41	2.437000000	0.19	-	-	-	-	-
14	0.41	2.437000000	0.19	-	-	-	-	-
15	0.41	2.437000000	0.19	-	-	-	-	-
16	0.41	2.437000000	0.19	-	-	-	-	-
17	0.41	2.437000000	0.19	-	-	-	-	-
18	0.41	2.437000000	0.19	-	-	-	-	-
19	0.41	2.437000000	0.19	-	-	-	-	-
20	0.41	2.437000000	0.19	-	-	-	-	-
21	0.41	2.437000000	0.19	-	-	-	-	-
22	0.41	2.437000000	0.19	-	-	-	-	-
23	0.41	2.437000000	0.19	-	-	-	-	-
24	0.41	2.437000000	0.19	-	-	-	-	-
25	0.41	2.437000000	0.19	-	-	-	-	-
26	0.41	2.437000000	0.19	-	-	-	-	-
27	0.41	2.437000000	0.19	-	-	-	-	-
28	0.41	2.437000000	0.19	-	-	-	-	-
29	0.41	2.437000000	0.19	-	-	-	-	-
30	0.41	2.437000000	0.19	-	-	-	-	-
31	0.41	2.437000000	0.19	-	-	-	-	-
32	0.41	2.437000000	0.19	-	-	-	-	-
33	0.41	2.437000000	0.19	-	-	-	-	-
34	0.41	2.437000000	0.19	-	-	-	-	-
35	0.41	2.437000000	0.19	-	-	-	-	-
36	0.41	2.437000000	0.19	-	-	-	-	-
37	0.41	2.437000000	0.19	-	-	-	-	-
38	0.41	2.437000000	0.19	-	-	-	-	-
39	0.41	2.437000000	0.19	-	-	-	-	-
40	0.41	2.437000000	0.19	-	-	-	-	-
41	0.41	2.437000000	0.19	-	-	-	-	-
42	0.41	2.437000000	0.19	-	-	-	-	-
43	0.41	2.437000000	0.19	-	-	-	-	-
44	0.41	2.437000000	0.19	-	-			

Center Freq 2.437000000 GHz

Ref Offset 1.5 dB  
Ref 15.00 dBm

Auto Tune

Center Freq 2.437000000 GHz

Start Freq 2.437000000 GHz

Stop Freq 2.437000000 GHz

CF Stop 5.000000 MHz

Freq Offset 0 Hz

Scale Type Lin

Center 2.437000000 GHz

Res BW 5 MHz

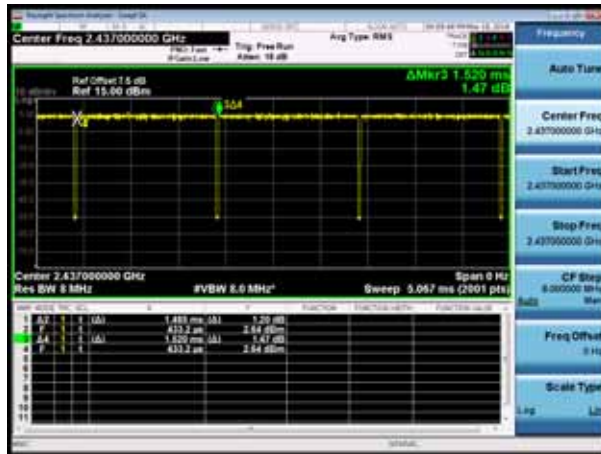
Span 0 Hz

RBW 5.0 MHz

Sweep 2.001 ms

Chan	dBm	Hz	dB	dBm	Hz	dB
1	2.437	0.00	-0.46	2.437	0.00	-0.46
2	2.437	0.00	-0.46	2.437	0.00	-0.46
3	2.437	0.00	-0.46	2.437	0.00	-0.46
4	2.437	0.00	-0.46	2.437	0.00	-0.46
5	2.437	0.00	-0.46	2.437	0.00	-0.46
6	2.437	0.00	-0.46	2.437	0.00	-0.46
7	2.437	0.00	-0.46	2.437	0.00	-0.46
8	2.437	0.00	-0.46	2.437	0.00	-0.46
9	2.437	0.00	-0.46	2.437	0.00	-0.46
10	2.437	0.00	-0.46	2.437	0.00	-0.46
11	2.437	0.00	-0.46	2.437	0.00	-0.46
12	2.437	0.00	-0.46	2.437	0.00	-0.46
13	2.437	0.00	-0.46	2.437	0.00	-0.46
14	2.437	0.00	-0.46	2.437	0.00	-0.46
15	2.437	0.00	-0.46	2.437	0.00	-0.46
16	2.437	0.00	-0.46	2.437	0.00	-0.46
17	2.437	0.00	-0.46	2.437	0.00	-0.46
18	2.437	0.00	-0.46	2.437	0.00	-0.46
19	2.437	0.00	-0.46	2.437	0.00	-0.46
20	2.437	0.00	-0.46	2.437	0.00	-0.46

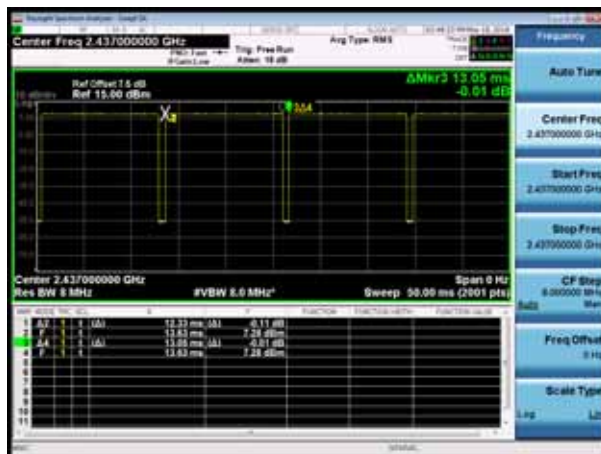
802.11ax(20MHz)



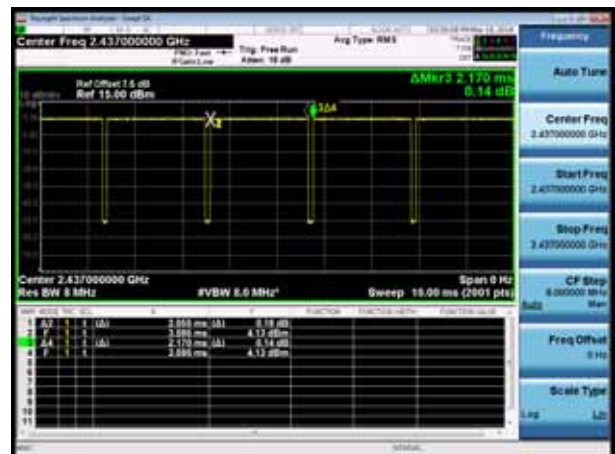
802.11ax(40MHz)



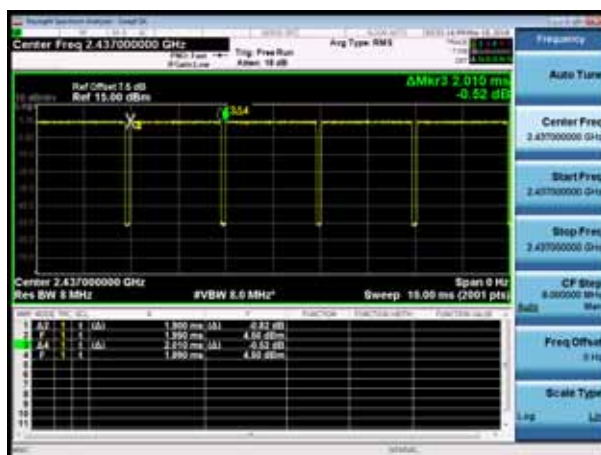
802.11b with Beam-forming



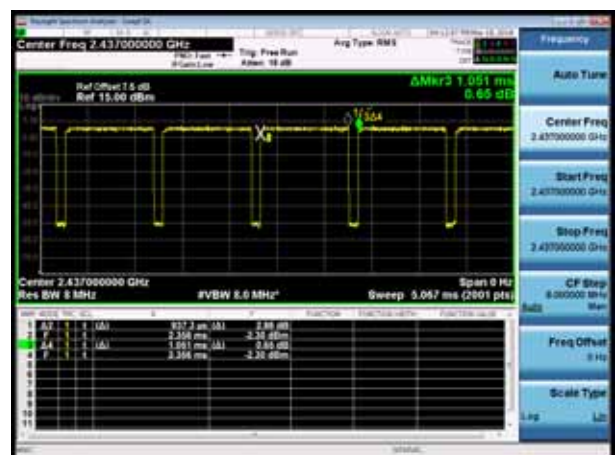
802.11g with Beam-forming



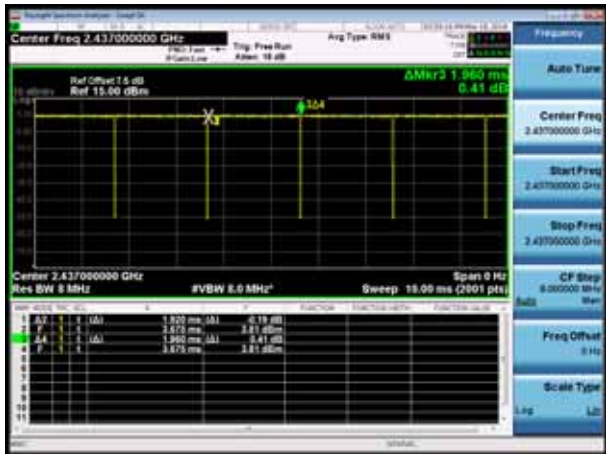
802.11n(20MHz) with Beam-forming



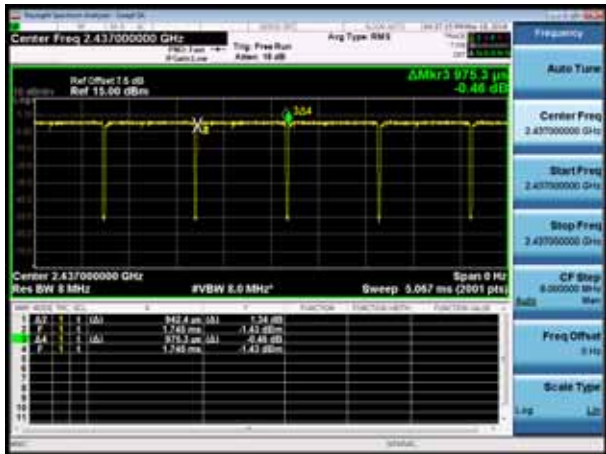
802.11n(40MHz) with Beam-forming



802.11ac(20MHz) with Beam-forming



802.11ac(40MHz) with Beam-forming



802.11ax(20MHz) with Beam-forming



802.11ax(40MHz) with Beam-forming





**4\*TX+4\*RX:**

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	12.35	0.70	82Hz	13.05	94.64%
802.11g	2.06	0.12	510Hz	2.18	94.50%
802.11n(20MHz)	1.92	0.10	560Hz	2.02	95.05%
802.11n(40MHz)	0.94	0.10	1.1KHz	1.04	90.38%
802.11ac(20MHz)	1.93	0.03	560Hz	1.96	98.47%
802.11ac(40MHz)	0.95	0.03	1.1KHz	0.98	96.94%
802.11ax(20MHz)	1.49	0.03	680Hz	1.52	98.03%
802.11ax(40MHz)	0.77	0.03	1.3KHz	0.80	96.25%
802.11b with Beam-forming	12.35	0.70	82Hz	13.05	94.64%
802.11g with Beam-forming	2.06	0.12	510Hz	2.18	94.50%
802.11n(20MHz) with Beam-forming	1.92	0.10	560Hz	2.02	95.05%
802.11n(40MHz) with Beam-forming	0.94	0.10	1.1KHz	1.04	90.38%
802.11ac(20MHz) with Beam-forming	1.93	0.03	560Hz	1.96	98.47%
802.11ac(40MHz) with Beam-forming	0.95	0.03	1.1KHz	0.98	96.94%
802.11ax(20MHz) with Beam-forming	1.49	0.03	680Hz	1.52	98.03%
802.11ax(40MHz) with Beam-forming	0.77	0.03	1.3KHz	0.80	96.25%

Center Freq 2.437000000 GHz

Res BW 6 MHz

Sweep 50.00 ms (2001 pts)

Auto Tune

Frequency

Center Freq 2.437000000 GHz

Start Freq 2.437000000 GHz

Stop Freq 2.437000000 GHz

CF Stop 2.437000000 GHz

Freq Offset 0 Hz

Scale Type Lin

Ref Offset 15 dB

Ref 15.00 dBm

ΔMkr3 13.05 ms

0.09 dB

3.5A

Meas	Wave	Unit	Value	Unit	Wave	Unit	Value	Unit
1	F	1	13.05	ms	Δ	1	0.15	dBm
2	F	1	7.00	ms	Δ	1	7.27	dBm
3	F	1	13.05	ms	Δ	1	0.09	dB
4	F	1	7.00	ms	Δ	1	7.27	dBm

Center Freq 2.437000000 GHz  
 Span 10.000 MHz  
 Res BW 6.0 MHz  
 S-VBW 6.0 MHz  
 Sweep 10.00 ms (2001 pts)  
 Span 0 Hz  
 Ref Offset 15 dB  
 Ref 15.00 dBm  
 ΔNkr3 2.175 ms  
 1.08 dB

Peak	Freq (GHz)	Amplitude (dBm)	Width (MHz)	Area (dBm-MHz)	Power (dBm)	Power Spectral Density (dBm/MHz)
1	2.437000	-1.08	6.00	-1.08	-1.08	-1.08
2	2.437000	-1.08	6.00	-1.08	-1.08	-1.08
3	2.437000	-1.08	6.00	-1.08	-1.08	-1.08
4	2.437000	-1.08	6.00	-1.08	-1.08	-1.08
5	2.437000	-1.08	6.00	-1.08	-1.08	-1.08

[illegible]

The screenshot shows a Keysight Spectrum Analyzer interface. The main display area shows a signal spectrum with a peak at 2.437 GHz. The peak is labeled with a value of 1.04 dBm. The display includes a grid and various measurement parameters.

**Center Freq 2.437000000 GHz**  
**Ref Offset 1.5 dB**  
**Ref 18.00 dBm**  
**dBm/2 1.04 dBm**  
**6.08 dB**

**Center 2.437000000 GHz**  
**Res BW 6 MHz**  
**#VBW 6.0 MHz**  
**Sweep 2.047 ms (2001 pts)**  
**Span 6 MHz**

Item	Value	Unit	dBm	dB
1	1.04	dBm	1.04	0.00
2	1.04	dBm	1.04	0.00
3	1.04	dBm	1.04	0.00
4	1.04	dBm	1.04	0.00
5	1.04	dBm	1.04	0.00
6	1.04	dBm	1.04	0.00
7	1.04	dBm	1.04	0.00
8	1.04	dBm	1.04	0.00
9	1.04	dBm	1.04	0.00
10	1.04	dBm	1.04	0.00
11	1.04	dBm	1.04	0.00
12	1.04	dBm	1.04	0.00
13	1.04	dBm	1.04	0.00
14	1.04	dBm	1.04	0.00
15	1.04	dBm	1.04	0.00
16	1.04	dBm	1.04	0.00
17	1.04	dBm	1.04	0.00
18	1.04	dBm	1.04	0.00
19	1.04	dBm	1.04	0.00
20	1.04	dBm	1.04	0.00
21	1.04	dBm	1.04	0.00
22	1.04	dBm	1.04	0.00
23	1.04	dBm	1.04	0.00
24	1.04	dBm	1.04	0.00
25	1.04	dBm	1.04	0.00
26	1.04	dBm	1.04	0.00
27	1.04	dBm	1.04	0.00
28	1.04	dBm	1.04	0.00
29	1.04	dBm	1.04	0.00
30	1.04	dBm	1.04	0.00
31	1.04	dBm	1.04	0.00
32	1.04	dBm	1.04	0.00
33	1.04	dBm	1.04	0.00
34	1.04	dBm	1.04	0.00
35	1.04	dBm	1.04	0.00
36	1.04	dBm	1.04	0.00
37	1.04	dBm	1.04	0.00
38	1.04	dBm	1.04	0.00
39	1.04	dBm	1.04	0.00
40	1.04	dBm	1.04	0.00
41	1.04	dBm	1.04	0.00
42	1.04	dBm	1.04	0.00
43	1.04	dBm	1.04	0.00
44	1.04	dBm	1.04	0.00
45	1.04	dBm	1.04	0.00
46	1.04	dBm	1.04	0.00
47	1.04	dBm	1.04	0.00
48	1.04	dBm	1.04	0.00
49	1.04	dBm	1.04	0.00
50	1.04	dBm	1.04	0.00
51	1.04	dBm	1.04	0.00
52	1.04	dBm	1.04	0.00
53	1.04	dBm	1.04	0.00
54	1.04	dBm	1.04	0.00
55	1.04	dBm	1.04	0.00
56	1.04	dBm	1.04	0.00
57	1.04	dBm	1.04	0.00
58	1.04	dBm	1.04	0.00
59	1.04	dBm	1.04	0.00
60	1.04	dBm	1.04	0.00
61	1.04	dBm	1.04	0.00
62	1.04	dBm	1.04	0.00
63	1.04	dBm	1.04	0.00
64	1.04	dBm	1.04	0.00
65	1.04	dBm	1.04	0.00
66	1.04	dBm	1.04	0.00
67	1.04	dBm	1.04	0.00
68	1.04	dBm	1.04	0.00
69	1.04	dBm	1.04	0.00
70	1.04	dBm	1.04	0.00
71	1.04	dBm	1.04	0.00

Center Freq 2.437000000 GHz

Ref Offset 1.5 dB  
Ref 11.50 dBm

Auto Tune

Center Freq 2.43700000 GHz

Span Freq 2.43700000 GHz

Stop Freq 2.43700000 GHz

CF Stop 0.000000 MHz

Freq Offset 0 Hz

Scale Type

Log

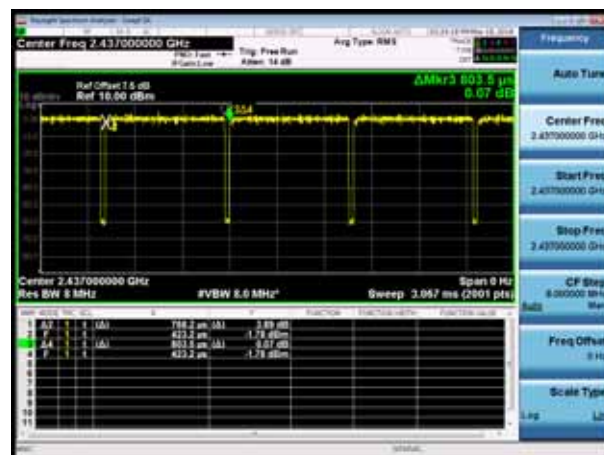
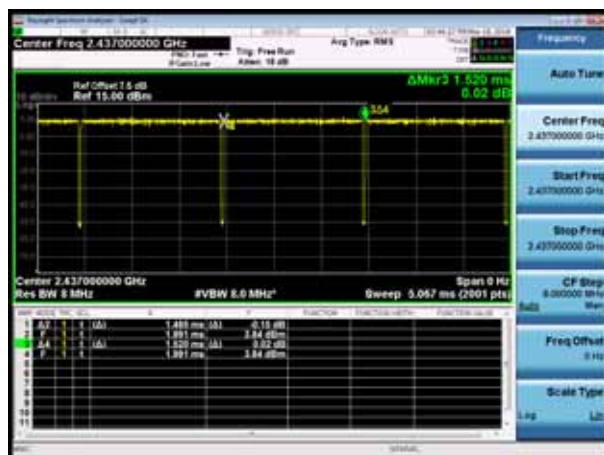
Center Freq 2.437000000 GHz  
Res BW 8 MHz  
Sweep 5.067 ms (2501 pts)

dBm/5 1.958 mm  
-1.37 dB

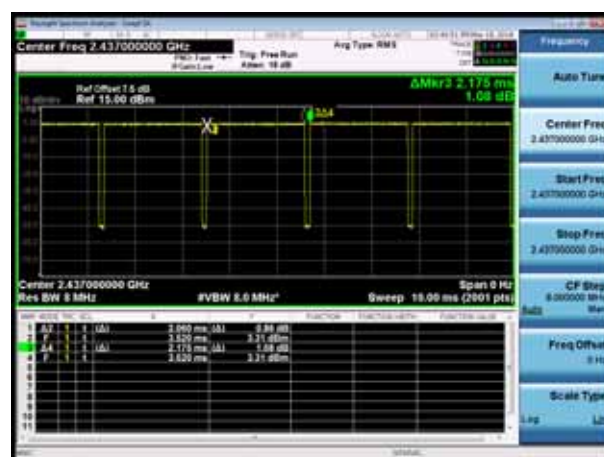
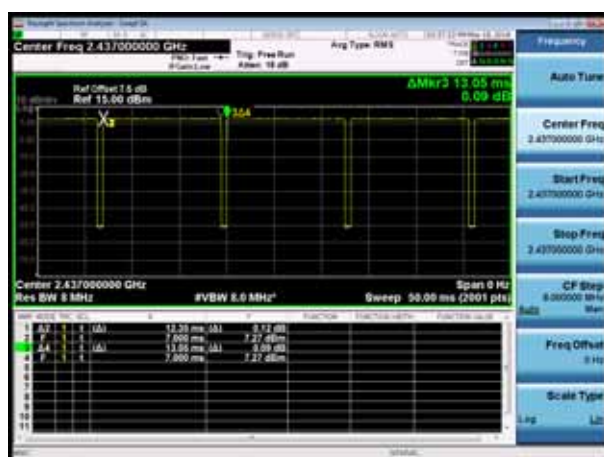
Line	Marker	Freq (GHz)	Mag (dBm)	Offset (dB)	Unit
1	F	2.43700000	-1.50	0.00	dBm
2	F	2.43700000	-1.37	0.00	dBm

[illegible]

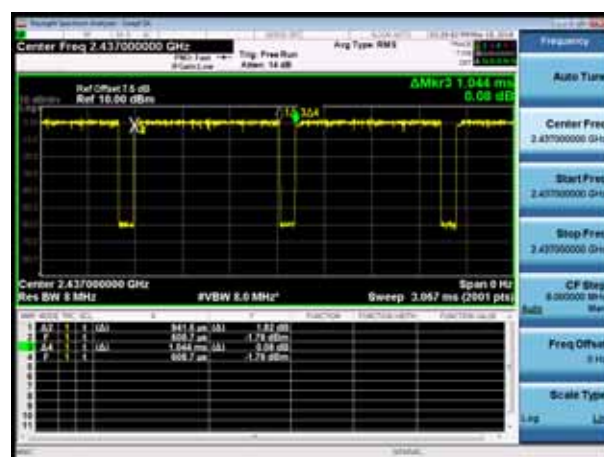
802.11ax(40MHz)



802.11g with Beam-forming



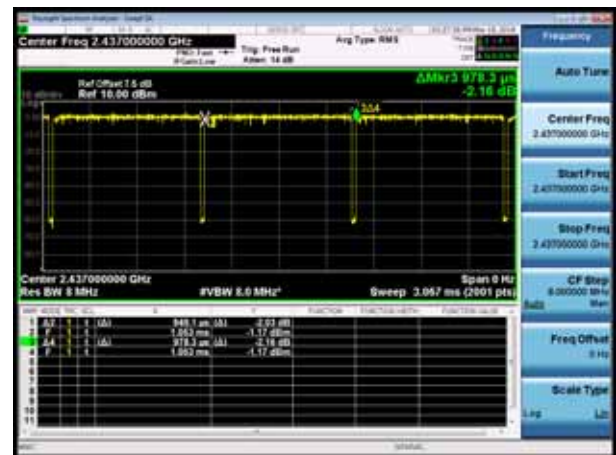
802.11n(40MHz) with Beam-forming



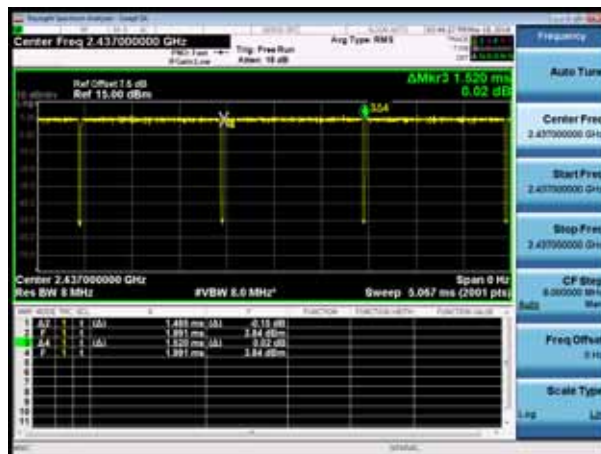
802.11ac(20MHz) with Beam-forming



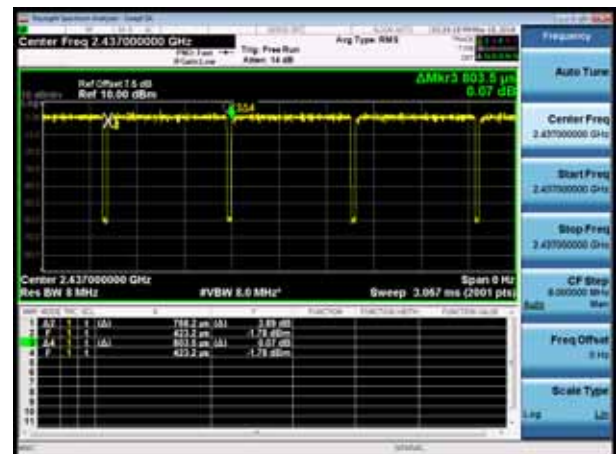
802.11ac(40MHz) with Beam-forming



802.11ax(20MHz) with Beam-forming



802.11ax(40MHz) with Beam-forming



## 6.7. Test Result

AV-Ant 0+1 with CDD:

Band I AV Limit= $54 \text{ dBuV/m} - 95.2 - 10 \lg(2 \text{ tx}) - 6.9 \text{ (Directional Gain)} - 1.2 \text{ (cable loss)} = -53 \text{ dBm}$

2412MHz by 802.11b:



2462MHz by 802.11b:





2412MHz by 802.11g:



2462MHz by 802.11g:



2412MHz by 802.11n20:



2462MHz by 802.11n20:



2422MHz by 802.11n40:



2452MHz by 802.11n40:





2412MHz by 802.11ac20:



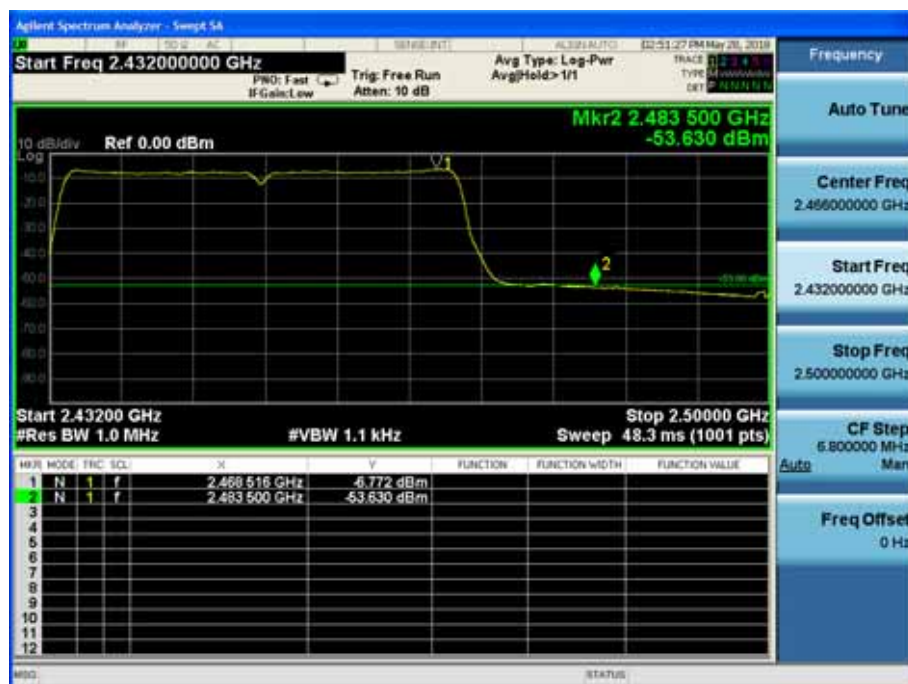
2462MHz by 802.11ac20:



2422MHz by 802.11ac40:



2452MHz by 802.11ac40:



2412MHz by 802.11ax20:



2462MHz by 802.11ax20:



2422MHz by 802.11ax40:



2452MHz by 802.11ax40:





### PK-Ant 0+1 with CDD:

Band I PK Limit= $74 \text{ dBuV/m} - 95.2 - 10 \lg(2 \text{ tx}) - 6.9 \text{ (Directional Gain)} - 1.2 \text{ (cable loss)} = -33 \text{ dBm}$   
 2412MHz by 802.11b:



### 2462MHz by 802.11b:



2412MHz by 802.11g:



2462MHz by 802.11g:



2412MHz by 802.11n20:



2462MHz by 802.11n20:



2422MHz by 802.11n40:



2452MHz by 802.11n40:

