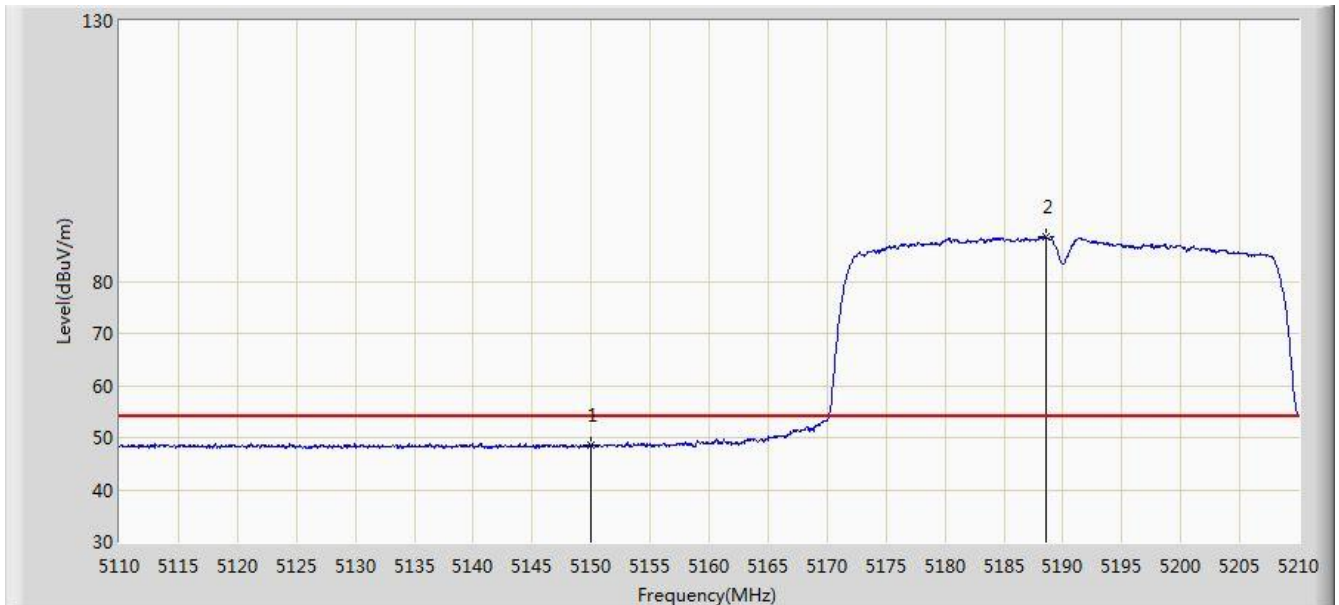


Site: AC1	Time: 2018/02/28 - 04:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

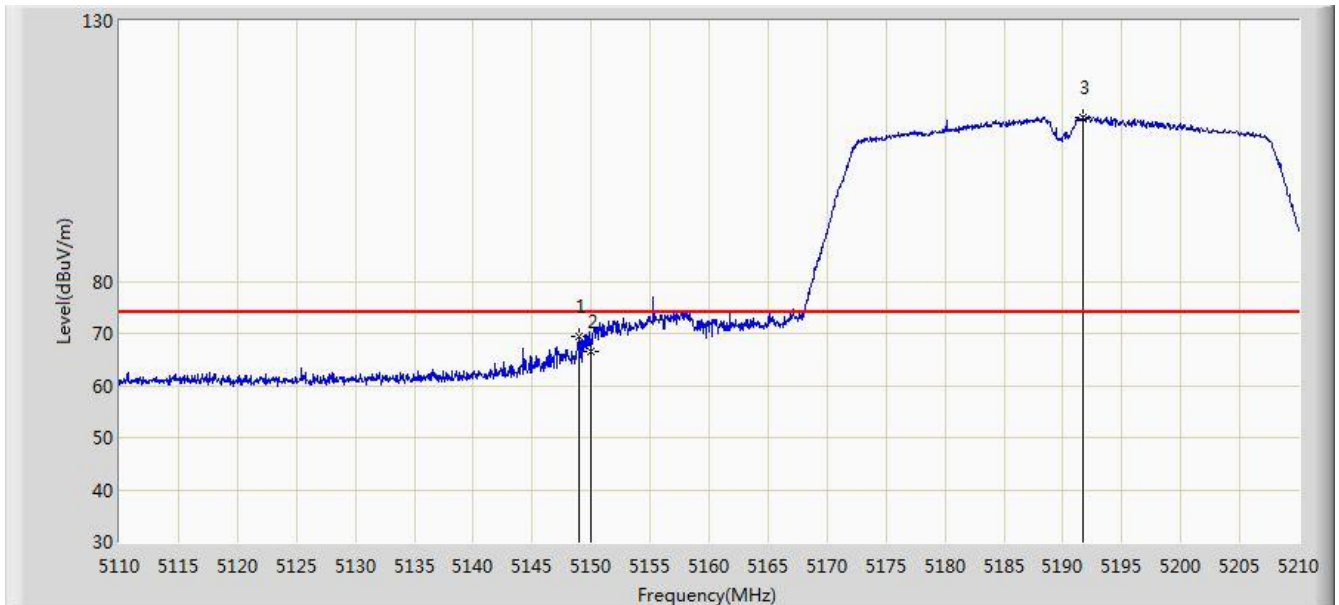


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.548	44.379	-5.452	54.000	4.170	AV
2		*	5188.600	88.542	84.504	N/A	N/A	4.038	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

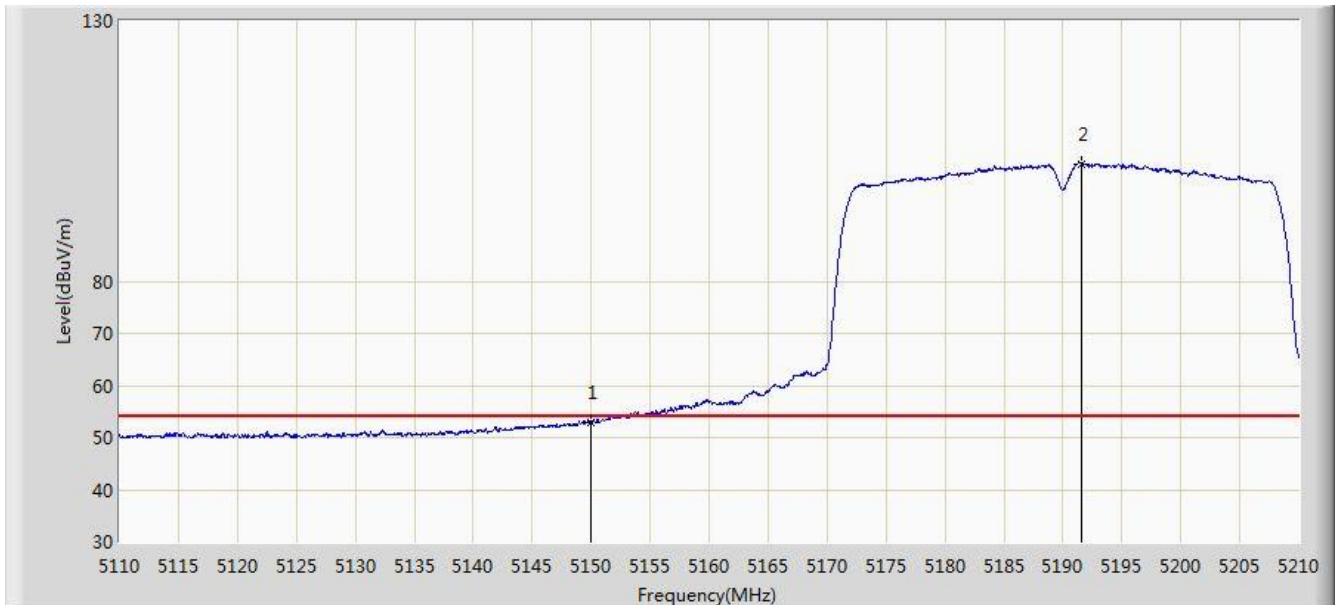


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.950	69.282	65.109	-4.718	74.000	4.173	PK
2			5150.000	66.609	62.440	-7.391	74.000	4.170	PK
3		*	5191.650	111.589	107.561	N/A	N/A	4.027	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

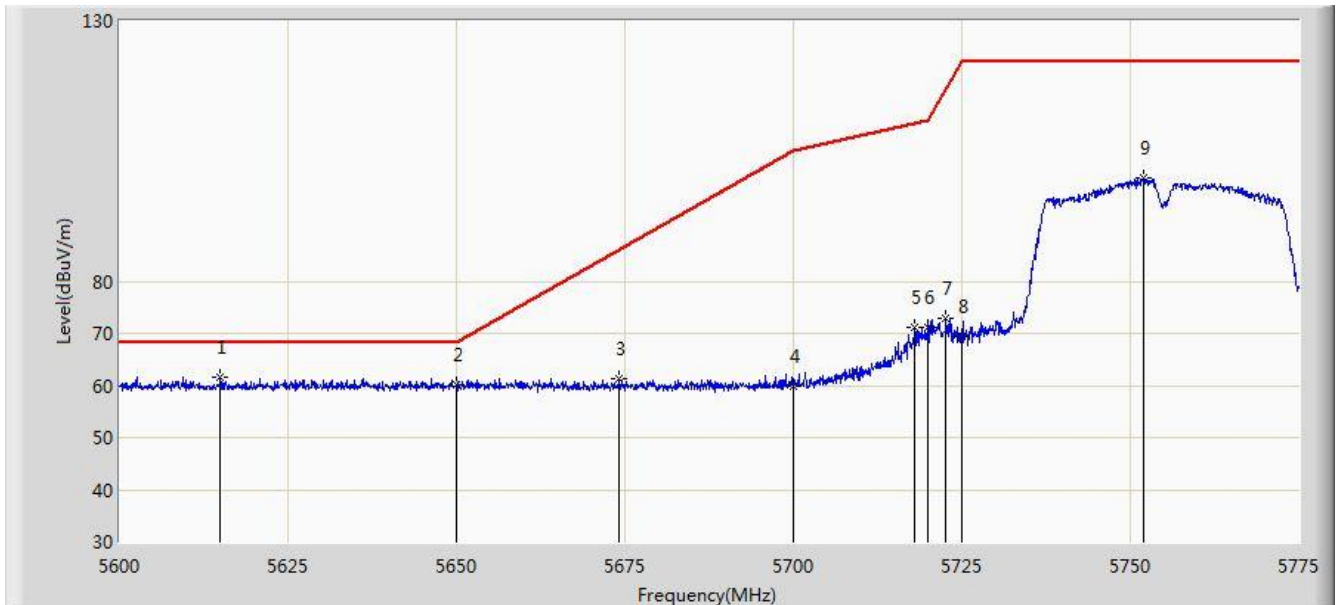


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.833	48.664	-1.167	54.000	4.170	AV
2		*	5191.600	102.596	98.568	N/A	N/A	4.027	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:24
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

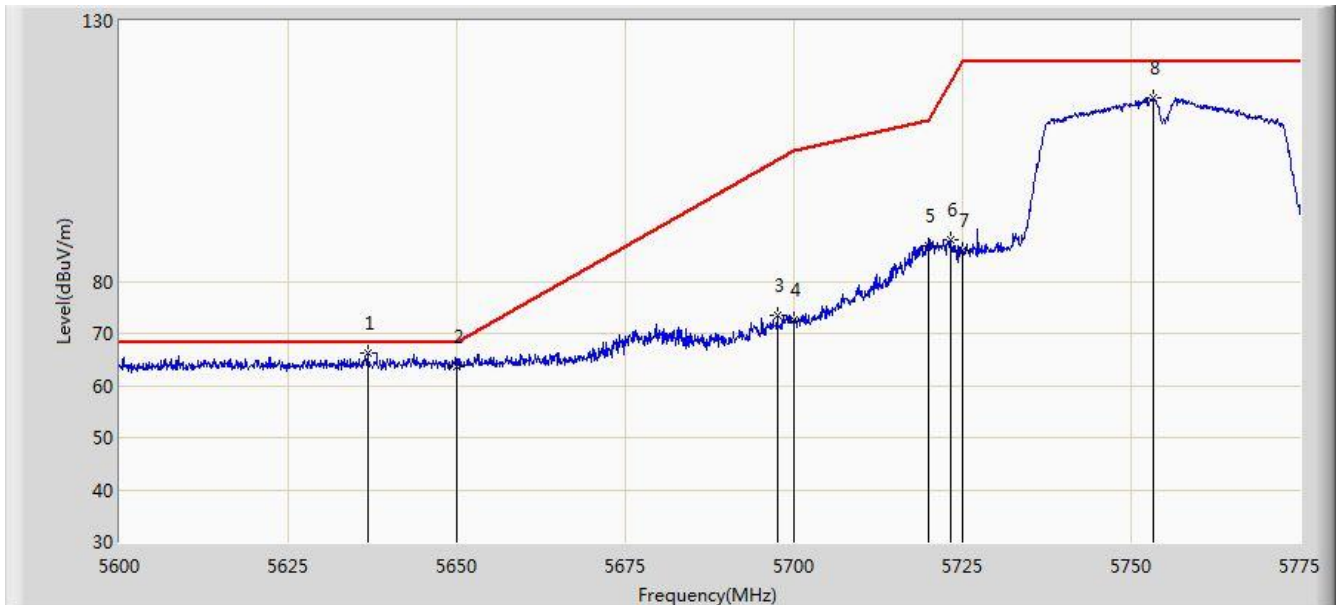


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5614.962	61.544	56.978	-6.656	68.200	4.566	PK
2			5650.000	60.099	55.428	-8.101	68.200	4.671	PK
3			5674.112	61.396	56.632	-24.688	86.084	4.764	PK
4			5700.000	59.776	54.898	-45.424	105.200	4.878	PK
5			5718.038	71.303	66.319	-38.948	110.252	4.985	PK
6			5720.000	71.255	66.258	-39.545	110.800	4.997	PK
7			5722.587	72.782	67.769	-43.917	116.700	5.014	PK
8			5725.000	69.328	64.299	-52.872	122.200	5.029	PK
9			5752.075	99.822	94.627	N/A	N/A	5.194	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:27
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

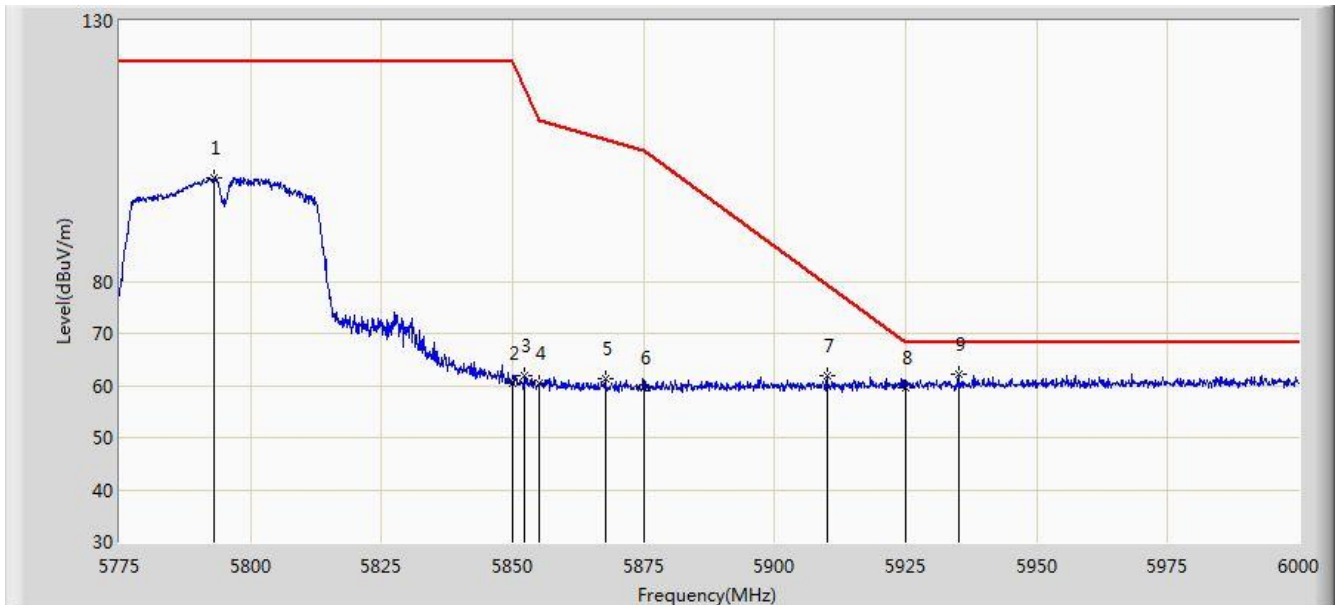


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5636.750	66.339	61.711	-1.861	68.200	4.628	PK
2			5650.000	63.625	58.954	-4.575	68.200	4.671	PK
3			5697.562	73.492	68.627	-29.911	103.403	4.865	PK
4			5700.000	72.508	67.630	-32.692	105.200	4.878	PK
5			5720.000	86.667	81.670	-24.133	110.800	4.997	PK
6			5723.200	88.020	83.003	-30.077	118.097	5.017	PK
7			5725.000	85.864	80.835	-36.336	122.200	5.029	PK
8			5753.388	115.113	109.910	N/A	N/A	5.202	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:29
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

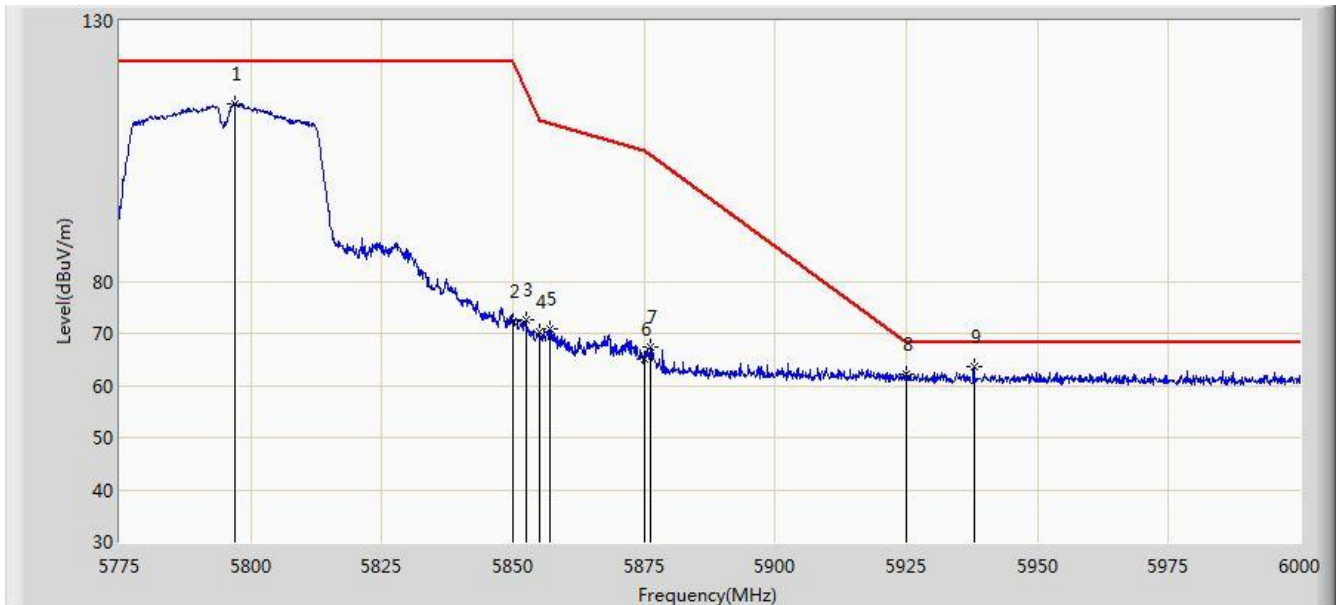


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5793.112	99.726	94.319	N/A	N/A	5.408	PK
2			5850.000	60.577	54.851	-61.623	122.200	5.726	PK
3			5852.288	61.928	56.193	-55.054	116.982	5.735	PK
4			5855.000	60.349	54.603	-50.451	110.800	5.746	PK
5			5867.700	61.342	55.547	-45.900	107.242	5.795	PK
6			5875.000	59.543	53.723	-45.657	105.200	5.820	PK
7			5910.000	61.883	55.954	-17.384	79.267	5.930	PK
8			5925.000	59.699	53.733	-8.501	68.200	5.967	PK
9		*	5935.087	62.171	56.179	-6.029	68.200	5.992	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:31
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

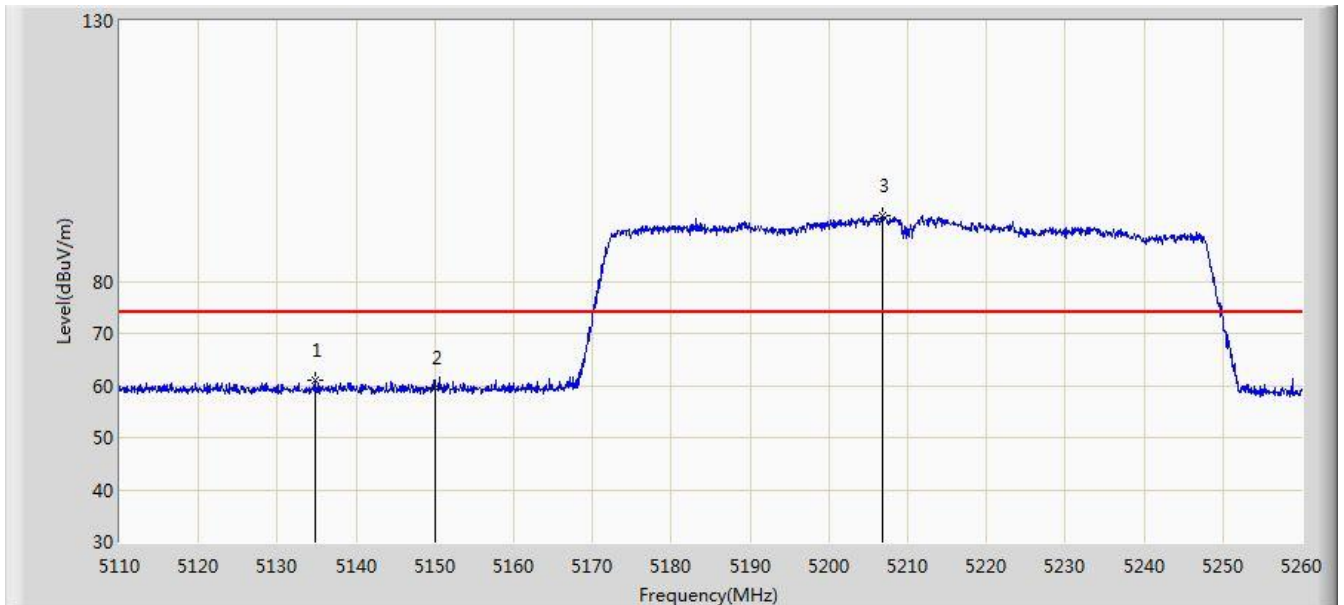


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5797.050	114.012	108.583	N/A	N/A	5.429	PK
2			5850.000	72.301	66.575	-49.899	122.200	5.726	PK
3			5852.400	72.515	66.780	-44.211	116.727	5.736	PK
4			5855.000	70.249	64.503	-40.551	110.800	5.746	PK
5			5857.013	70.877	65.122	-39.359	110.235	5.754	PK
6			5875.000	65.057	59.237	-40.143	105.200	5.820	PK
7			5876.138	67.405	61.581	-36.950	104.354	5.824	PK
8			5925.000	62.040	56.074	-6.160	68.200	5.967	PK
9		*	5937.900	63.533	57.535	-4.667	68.200	5.998	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

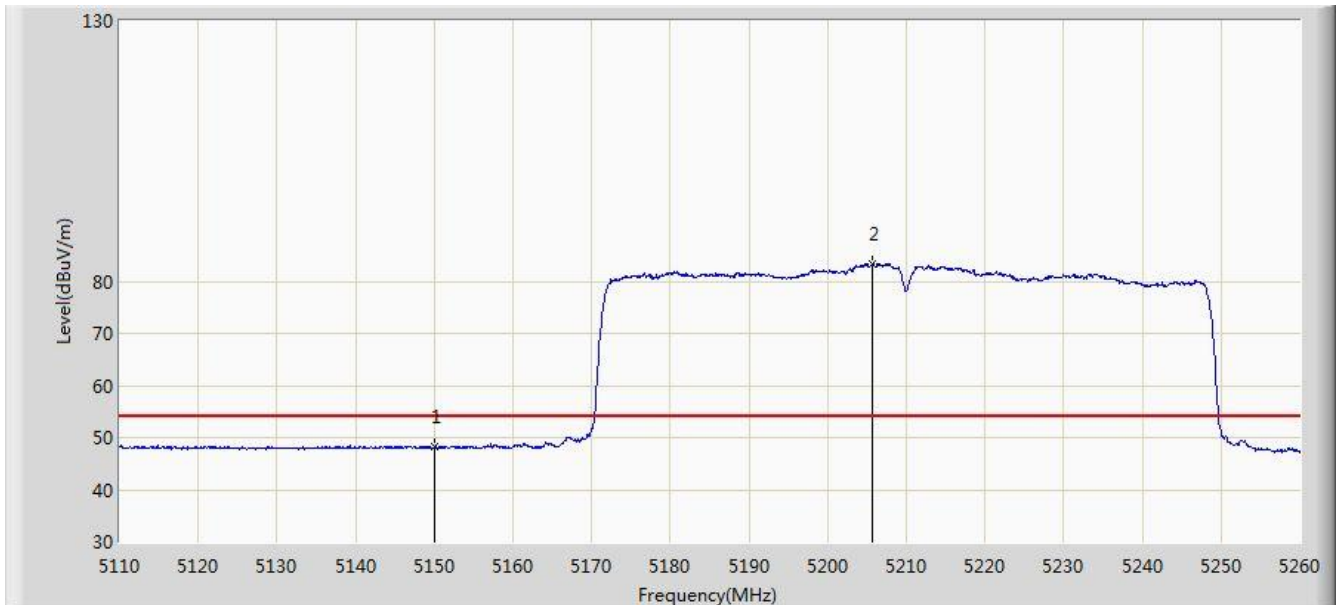


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5134.750	61.039	56.864	-12.961	74.000	4.175	PK
2			5150.000	59.473	55.304	-14.527	74.000	4.170	PK
3		*	5206.825	92.604	88.626	N/A	N/A	3.979	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

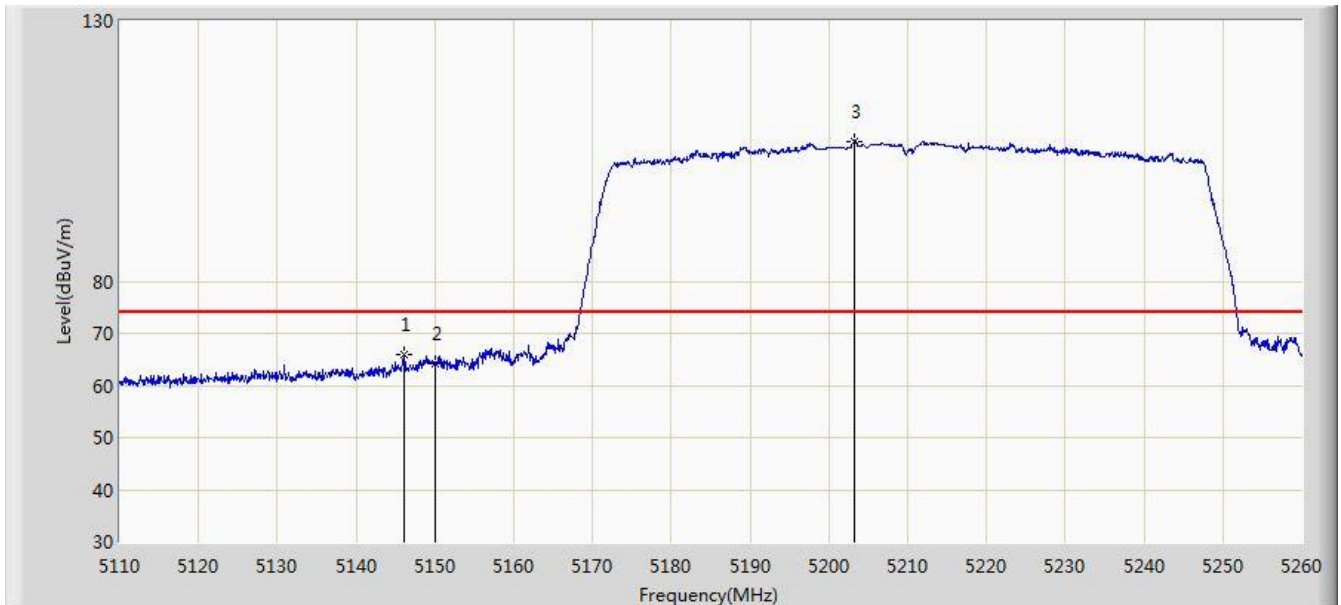


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.303	44.134	-5.697	54.000	4.170	AV
2		*	5205.700	83.448	79.467	N/A	N/A	3.981	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

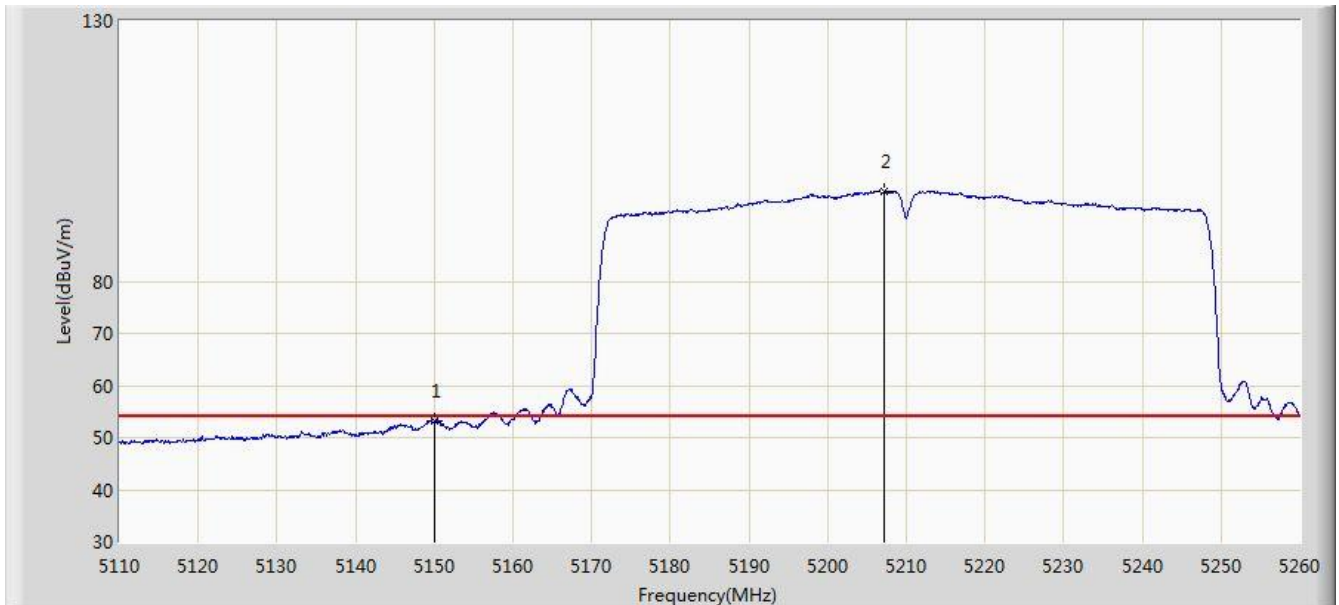


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.150	65.863	61.687	-8.137	74.000	4.175	PK
2			5150.000	64.211	60.042	-9.789	74.000	4.170	PK
3		*	5203.225	106.934	102.945	N/A	N/A	3.988	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

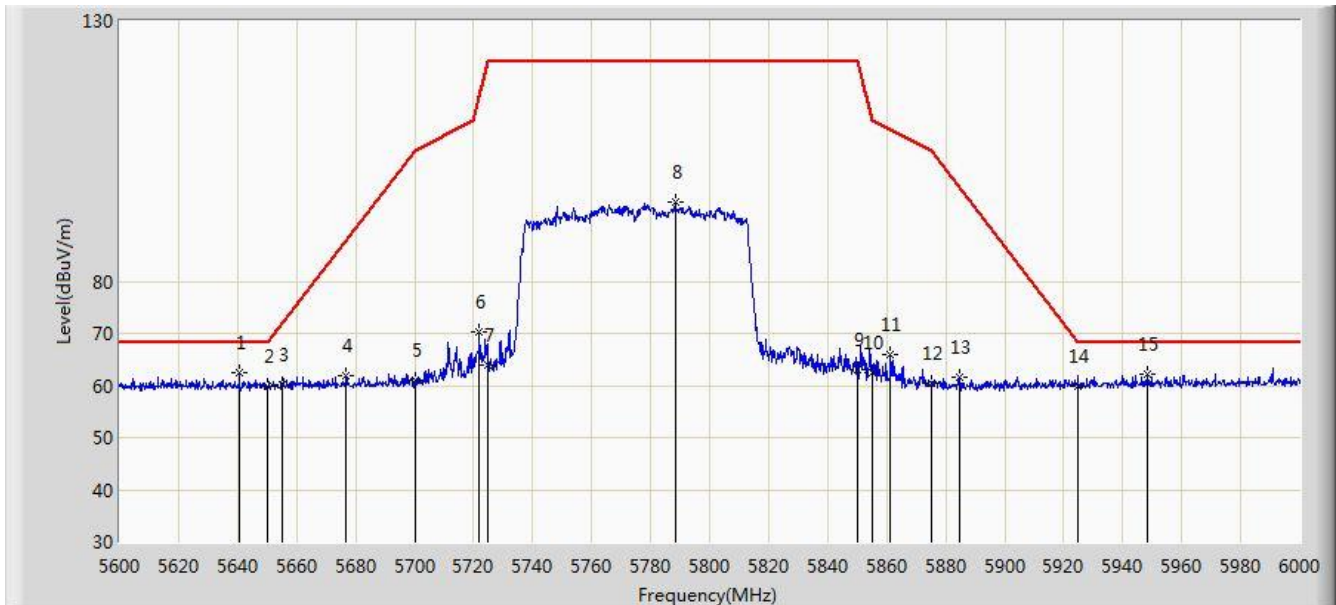


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.174	49.005	-0.826	54.000	4.170	AV
2		*	5207.125	97.320	93.343	N/A	N/A	3.977	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 05:03
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Horizontal
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	

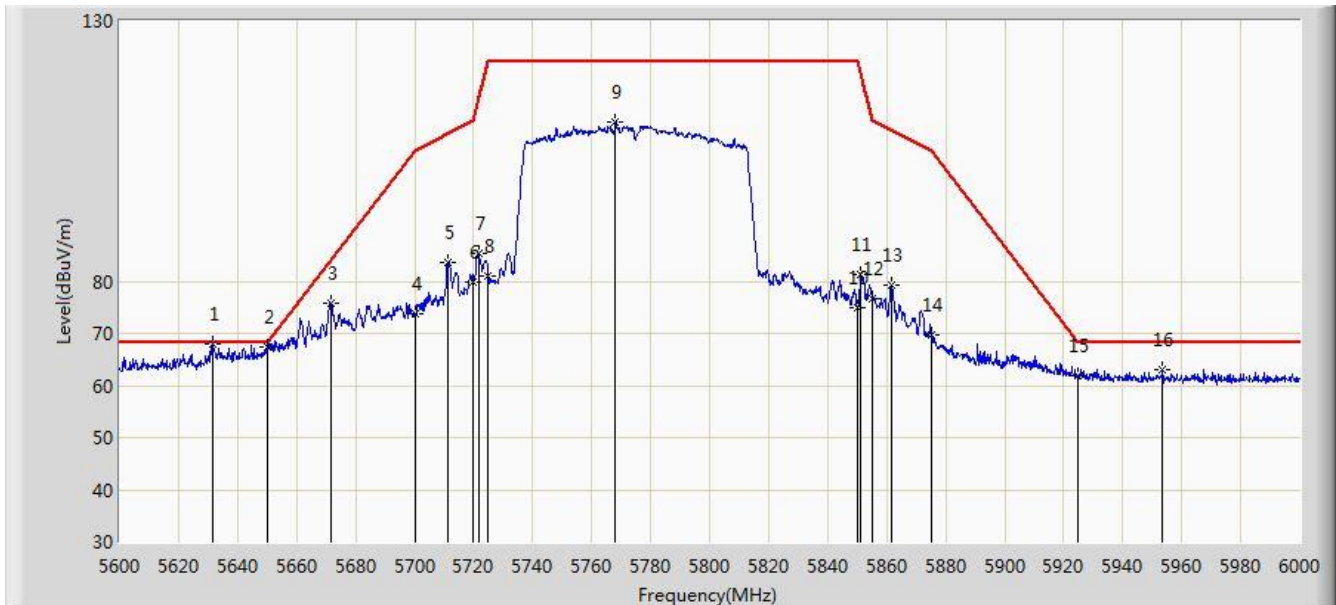


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5640.600	62.355	57.715	-5.845	68.200	4.640	PK
2			5650.000	59.825	55.154	-8.375	68.200	4.671	PK
3			5655.000	60.104	55.416	-11.811	71.915	4.687	PK
4			5676.800	61.789	57.015	-26.283	88.073	4.775	PK
5			5700.000	61.098	56.220	-44.102	105.200	4.878	PK
6			5721.800	70.217	65.209	-44.688	114.905	5.008	PK
7			5725.000	63.854	58.825	-58.346	122.200	5.029	PK
8			5788.400	95.167	89.783	N/A	N/A	5.385	PK
9			5850.000	63.071	57.345	-59.129	122.200	5.726	PK
10			5855.000	62.361	56.615	-48.439	110.800	5.746	PK
11			5861.400	65.978	60.205	-43.028	109.006	5.772	PK
12			5875.000	60.533	54.713	-44.667	105.200	5.820	PK
13			5884.600	61.450	55.597	-36.622	98.072	5.853	PK
14			5925.000	59.928	53.962	-8.272	68.200	5.967	PK
15			5948.200	62.195	56.172	-6.005	68.200	6.023	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Site: AC1	Time: 2018/02/28 - 04:59
Limit: FCC_Part15.407_RE(3m)_Bandedge	Engineer: Kevin Ker
Probe: BBHA9120D_1GHz_18GHz	Polarity: Vertical
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz, Ant 0 + 1 + 2 + 3 (Beam-Forming Mode)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5631.400	68.050	63.437	-0.150	68.200	4.613	PK
2			5650.000	67.447	62.776	-0.753	68.200	4.671	PK
3			5671.600	75.853	71.100	-8.371	84.224	4.754	PK
4			5700.000	73.874	68.996	-31.326	105.200	4.878	PK
5			5711.400	83.545	78.603	-24.850	108.394	4.941	PK
6			5720.000	79.890	74.893	-30.910	110.800	4.997	PK
7			5721.800	85.262	80.254	-29.643	114.905	5.008	PK
8			5725.000	81.145	76.116	-41.055	122.200	5.029	PK
9			5768.000	110.479	105.198	N/A	N/A	5.281	PK
10			5850.000	74.989	69.263	-47.211	122.200	5.726	PK
11			5851.200	81.223	75.493	-38.240	119.463	5.731	PK
12			5855.000	76.697	70.951	-34.103	110.800	5.746	PK
13			5861.800	79.259	73.485	-29.634	108.894	5.775	PK
14			5875.000	69.851	64.031	-35.349	105.200	5.820	PK
15			5925.000	61.968	56.002	-6.232	68.200	5.967	PK
16			5953.600	62.912	56.879	-5.288	68.200	6.032	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

7.10. AC Conducted Emissions Measurement

7.10.1. TestLimit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

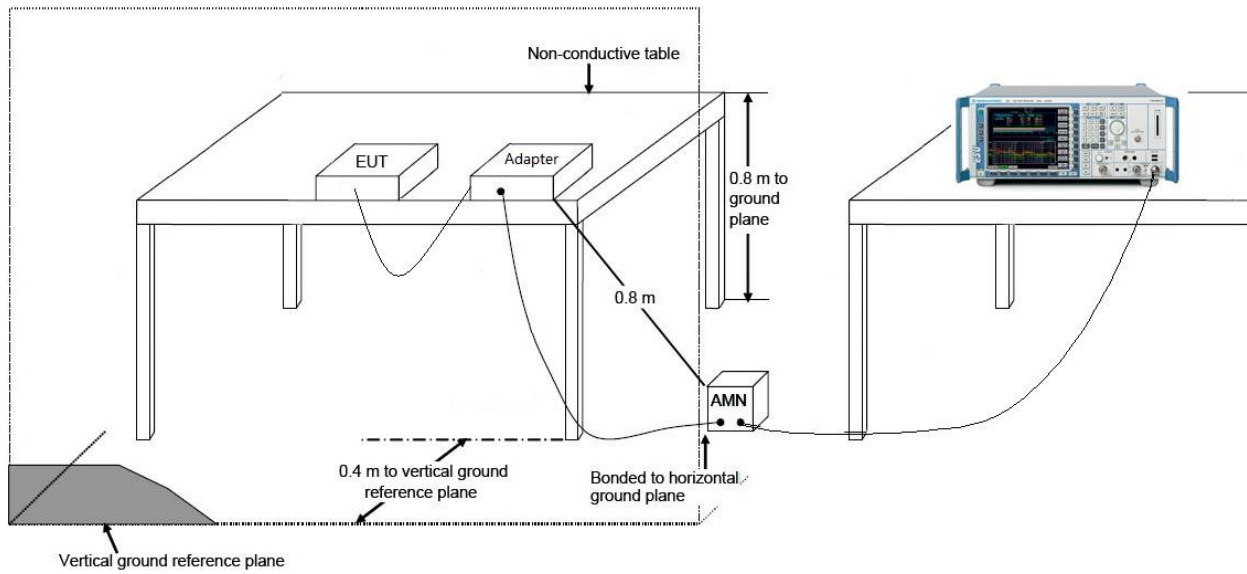
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

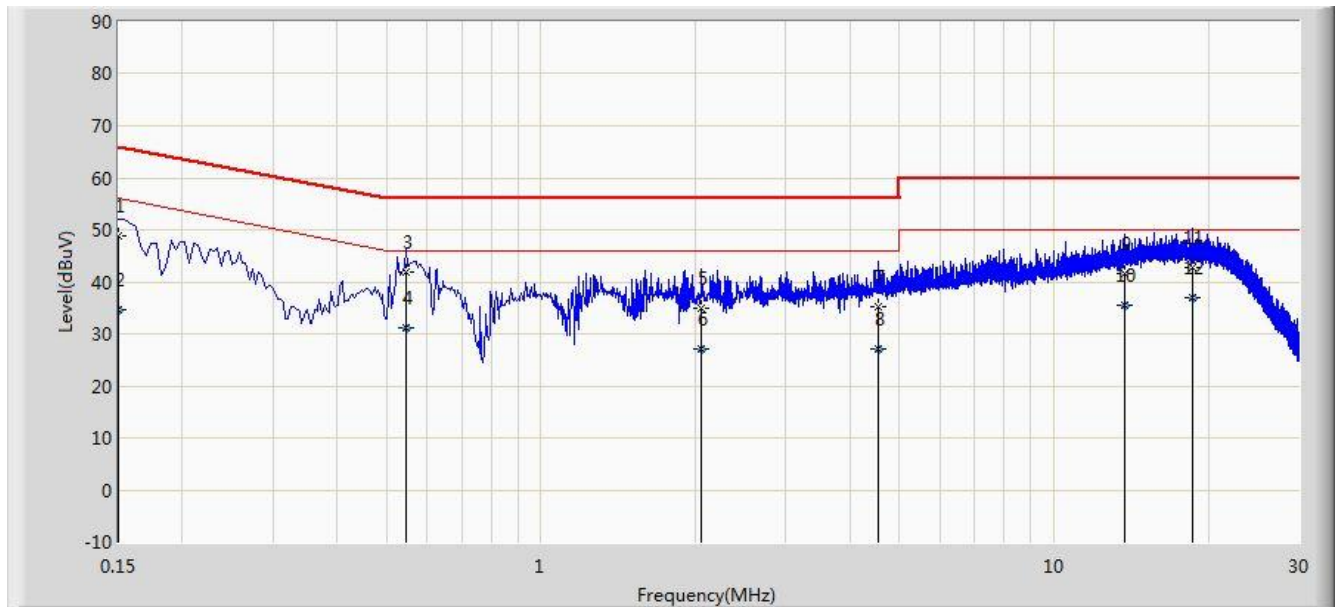
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

7.10.3. Test Setup



7.10.4.Test Result

Site: SR2	Time: 2018/01/24 - 20:04
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode 1	

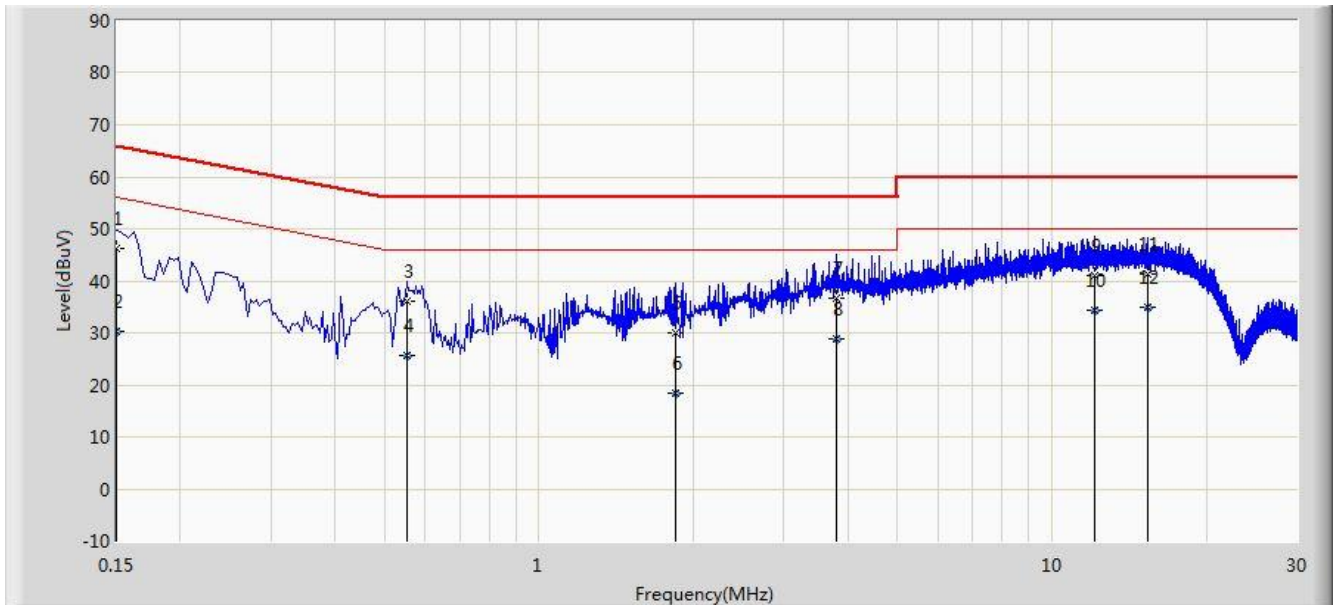


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	48.743	37.575	-17.257	66.000	11.168	QP
2			0.150	34.719	23.550	-21.281	56.000	11.168	AV
3			0.546	41.787	31.645	-14.213	56.000	10.143	QP
4			0.546	31.148	21.005	-14.852	46.000	10.143	AV
5			2.050	35.012	25.143	-20.988	56.000	9.869	QP
6			2.050	26.984	17.115	-19.016	46.000	9.869	AV
7			4.550	35.239	25.245	-20.761	56.000	9.994	QP
8			4.550	27.125	17.131	-18.875	46.000	9.994	AV
9			13.722	41.596	31.541	-18.404	60.000	10.055	QP
10			13.722	35.432	25.378	-14.568	50.000	10.055	AV
11			18.666	42.812	32.699	-17.188	60.000	10.113	QP
12			18.666	36.931	26.818	-13.069	50.000	10.113	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2018/01/24 - 20:09
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: AC2300 Wireless MU-MIMO Gigabit Router	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	46.132	34.990	-19.868	66.000	11.142	QP
2			0.150	30.304	19.162	-25.696	56.000	11.142	AV
3			0.554	35.952	25.795	-20.048	56.000	10.157	QP
4			0.554	25.620	15.463	-20.380	46.000	10.157	AV
5			1.842	30.032	20.154	-25.968	56.000	9.878	QP
6			1.842	18.435	8.557	-27.565	46.000	9.878	AV
7			3.802	36.789	26.824	-19.211	56.000	9.965	QP
8			3.802	28.696	18.731	-17.304	46.000	9.965	AV
9			12.090	40.937	30.816	-19.063	60.000	10.121	QP
10			12.090	34.338	24.216	-15.662	50.000	10.121	AV
11			15.402	41.304	31.186	-18.696	60.000	10.118	QP
12			15.402	35.026	24.908	-14.974	50.000	10.118	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **AC2300 Wireless MU-MIMO Gigabit Router** is in compliance with Part 15E of the FCC Rules.

The End