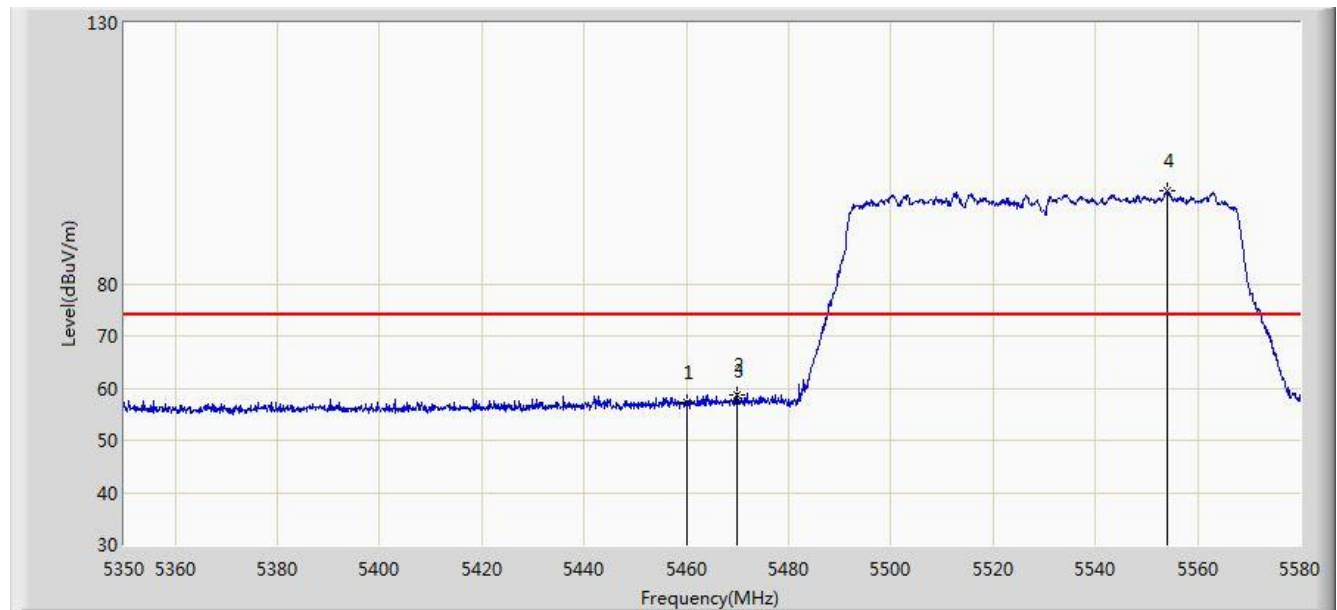


Site: AC1	Time: 2017/02/26 - 16:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5530MHz Ant 0 + 1	

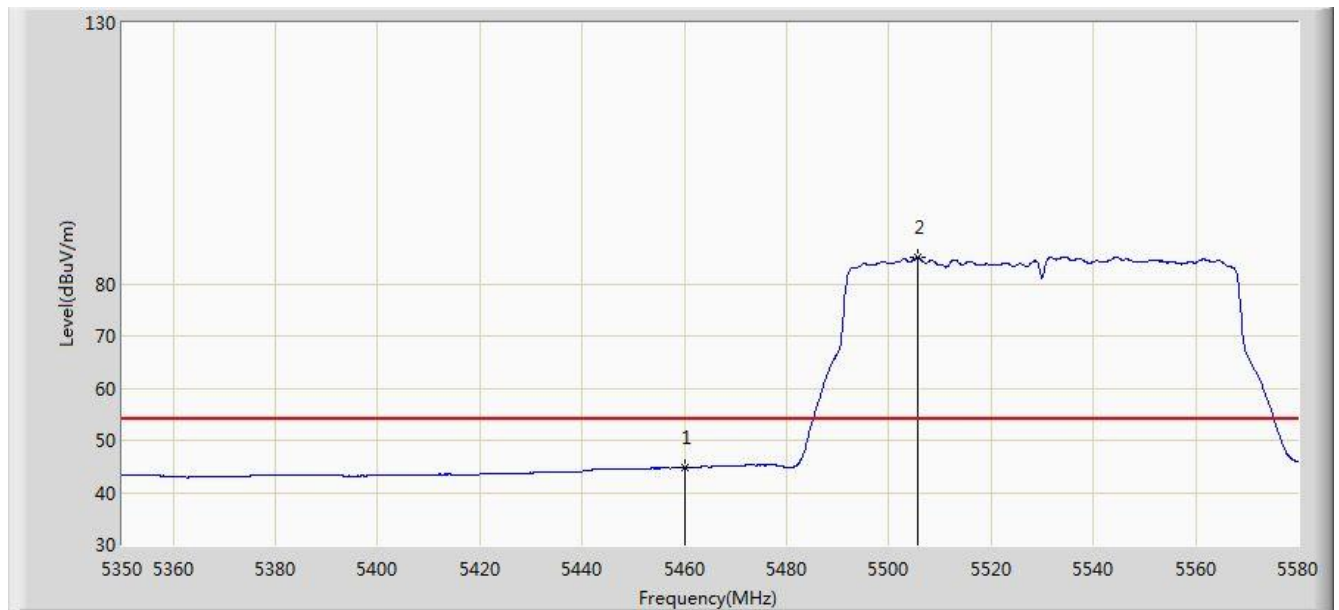


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	57.246	54.053	-16.754	74.000	3.194	PK
2			5469.830	58.770	55.247	-15.230	74.000	3.523	PK
3			5470.000	57.579	54.050	-16.421	74.000	3.529	PK
4		*	5554.125	97.844	94.259	N/A	N/A	3.584	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: 2017/02/26 - 16:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5530MHz Ant 0 + 1	

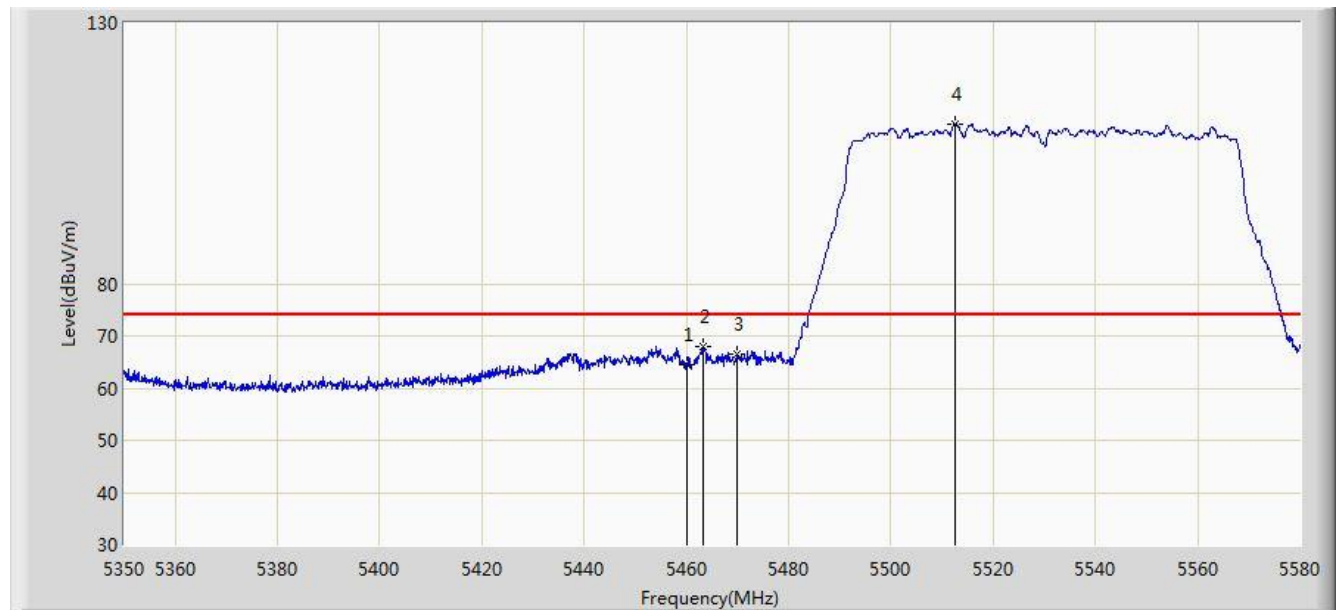


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	44.665	41.472	-9.335	54.000	3.194	AV
2		*	5505.600	85.042	81.962	N/A	N/A	3.081	AV

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: 2017/02/26 - 16:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5530MHz Ant 0 + 1	

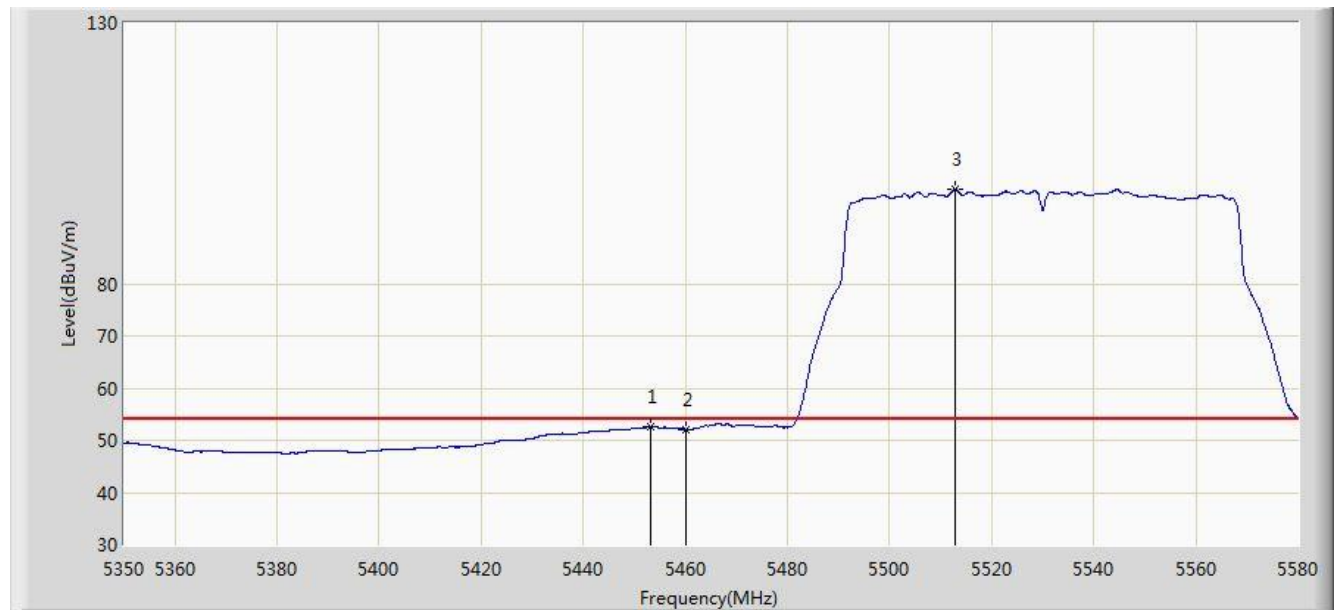


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	64.375	61.182	-9.625	74.000	3.194	PK
2			5463.390	67.978	64.671	-6.022	74.000	3.307	PK
3			5470.000	66.416	62.887	-7.584	74.000	3.529	PK
4		*	5512.495	110.655	107.407	N/A	N/A	3.248	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: 2017/02/26 - 16:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5530MHz Ant 0 + 1	

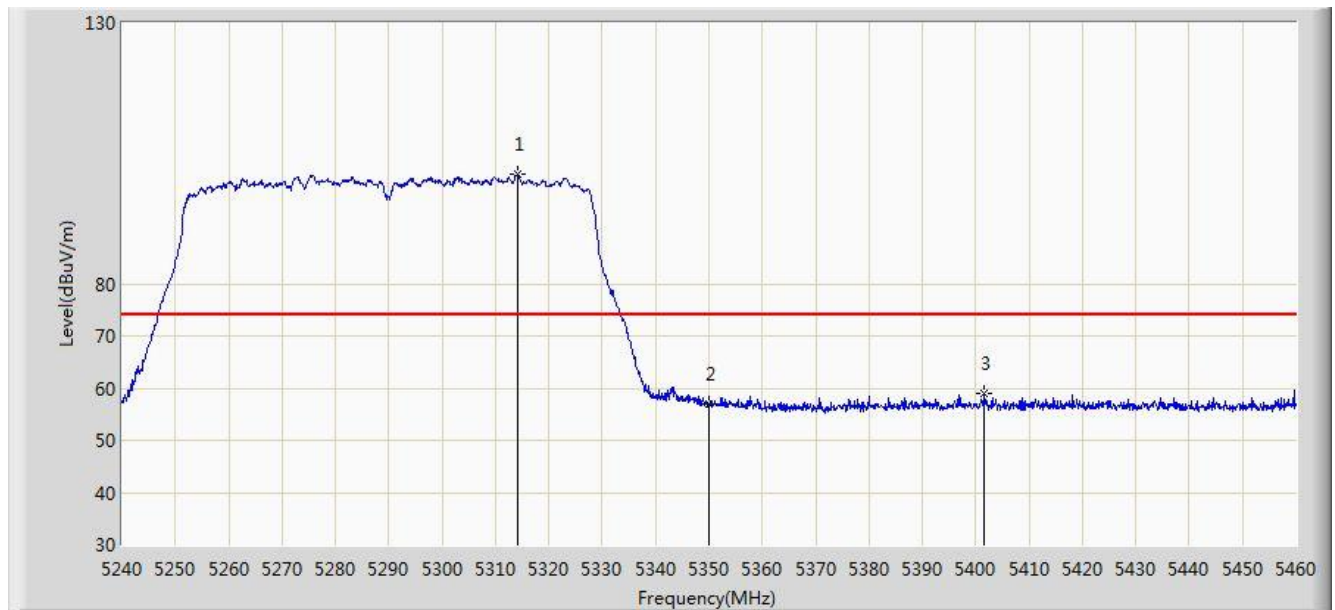


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5453.040	52.586	49.619	-1.414	54.000	2.966	AV
2			5460.000	52.054	48.861	-1.946	54.000	3.194	AV
3		*	5512.730	98.067	94.813	N/A	N/A	3.255	AV

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: 2017/02/26 - 16:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5610MHz Ant 0 + 1	

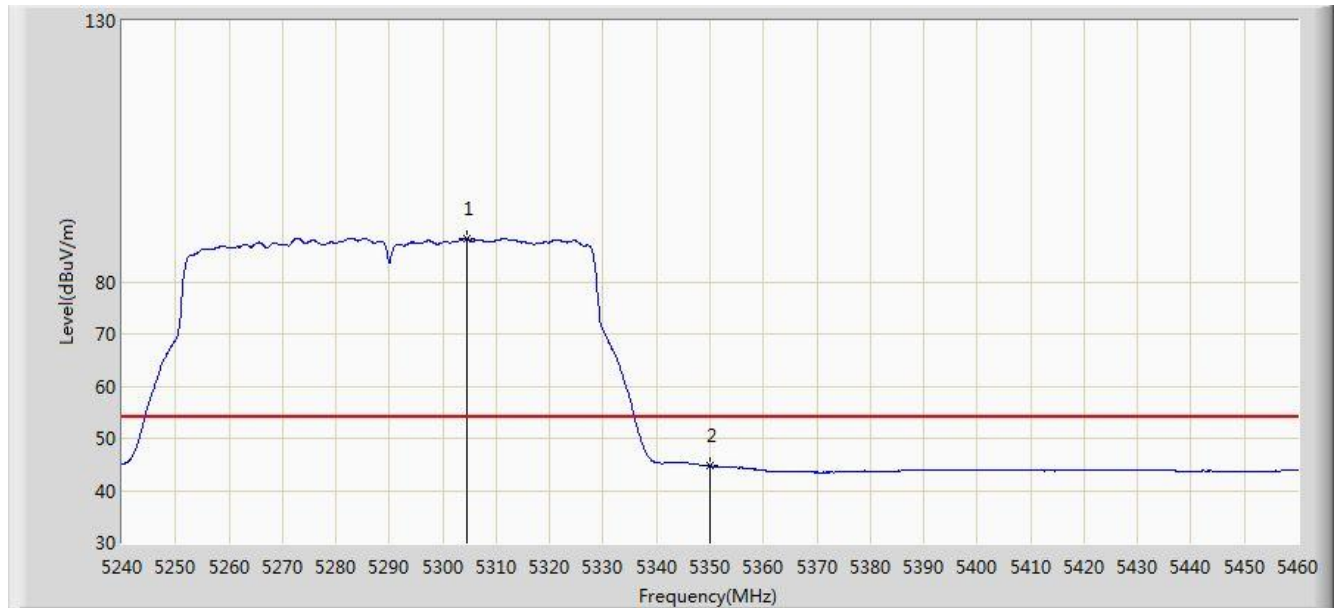


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5314.250	101.139	98.520	N/A	N/A	2.618	PK
2			5350.000	57.061	54.364	-16.939	74.000	2.697	PK
3			5401.590	59.044	56.076	-14.956	74.000	2.968	PK

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: 2017/02/26 - 16:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5610MHz Ant 0 + 1	

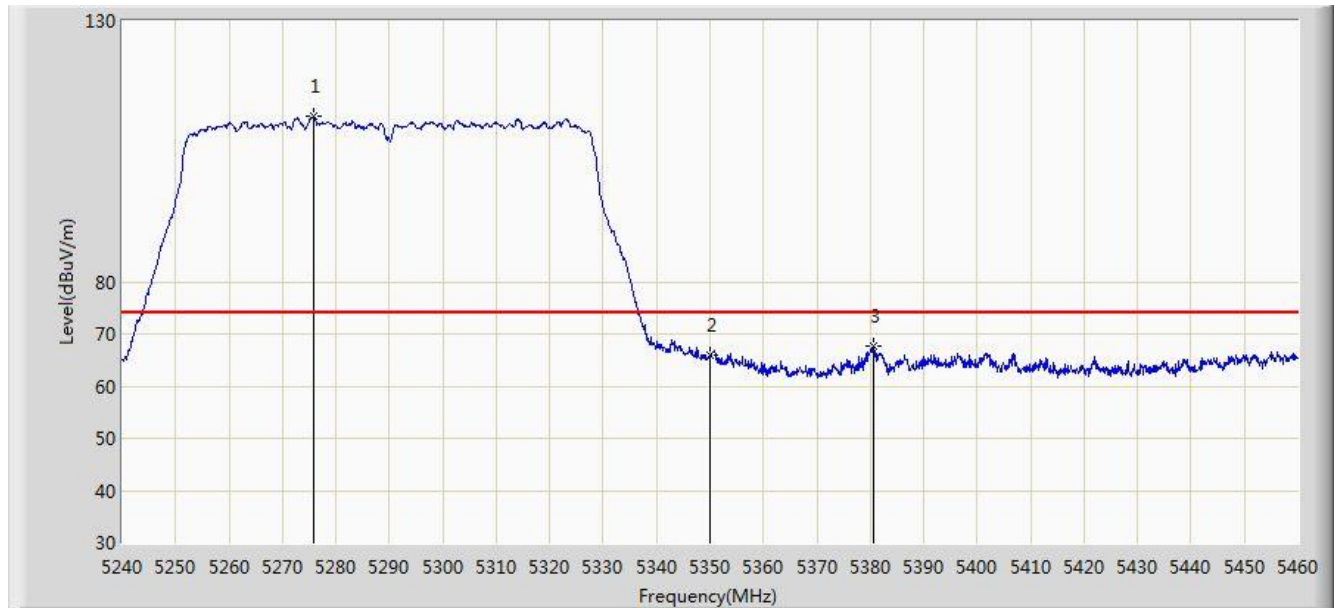


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5304.570	88.347	85.733	N/A	N/A	2.614	AV
2			5350.000	44.669	41.972	-9.331	54.000	2.697	AV

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: 2017/02/26 - 16:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5610MHz Ant 0 + 1	

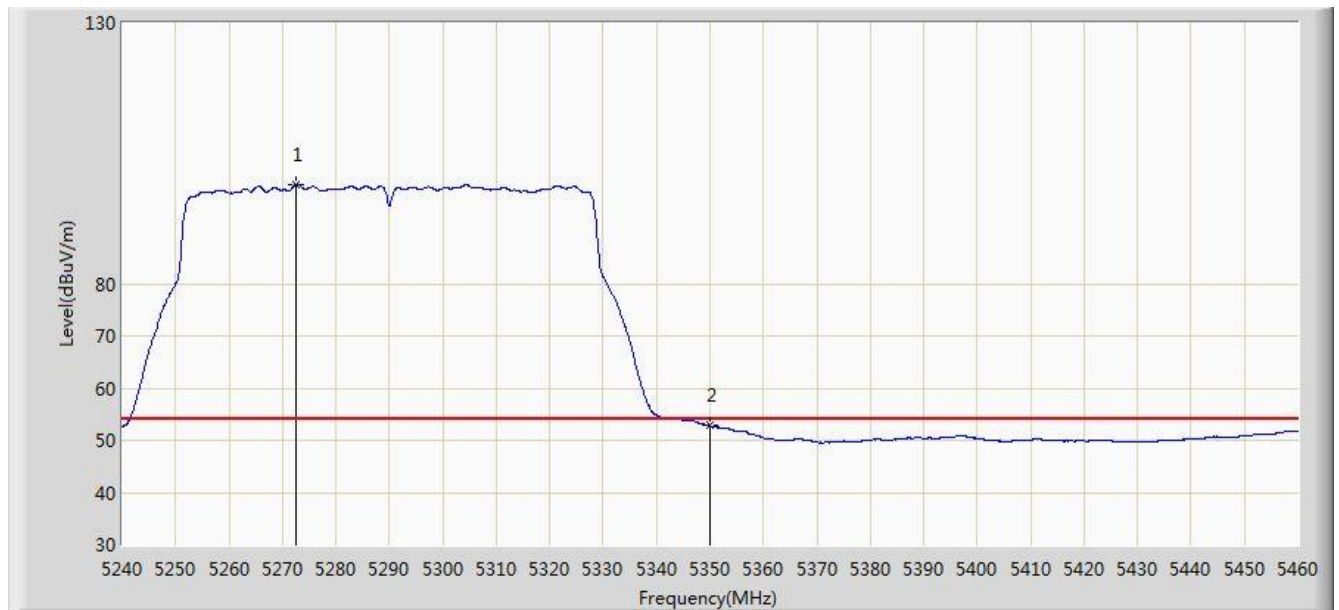


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5275.750	111.694	109.013	N/A	N/A	2.681	PK
2			5350.000	65.916	63.219	-8.084	74.000	2.697	PK
3			5380.470	67.537	64.425	-6.463	74.000	3.112	PK

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: 2017/02/26 - 16:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5610MHz Ant 0 + 1	

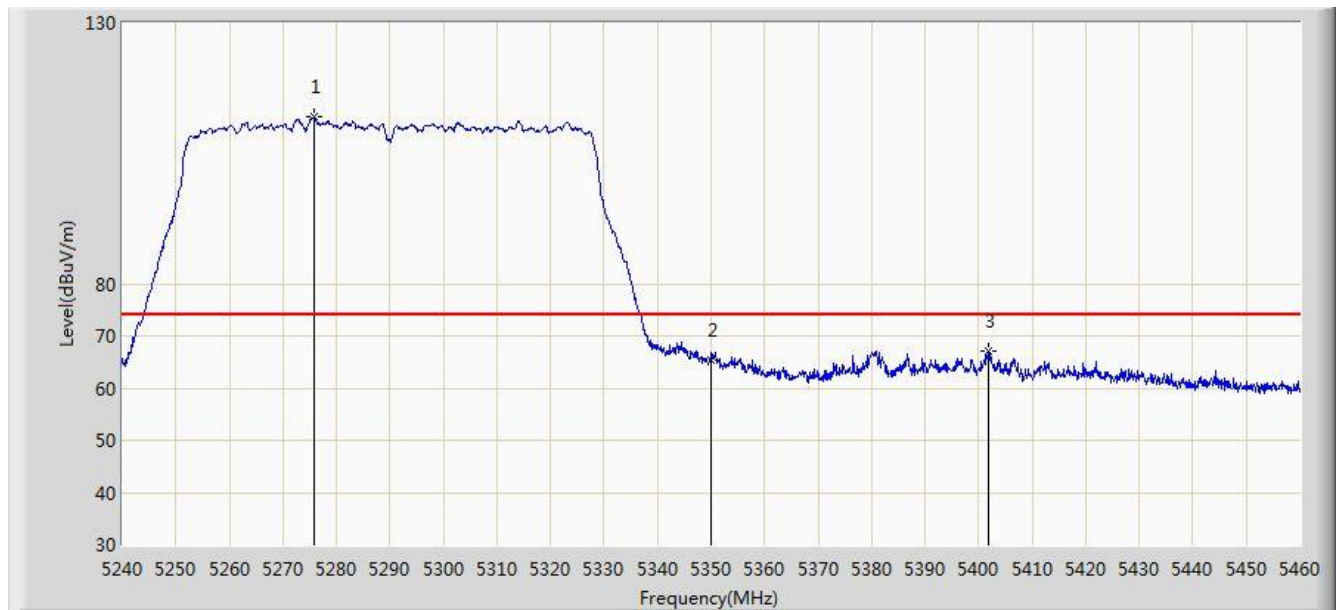


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5272.560	99.101	96.422	N/A	N/A	2.679	AV
2			5350.000	52.791	50.094	-1.209	54.000	2.697	AV

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: 2017/02/26 - 16:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5690MHz Ant 0 + 1	

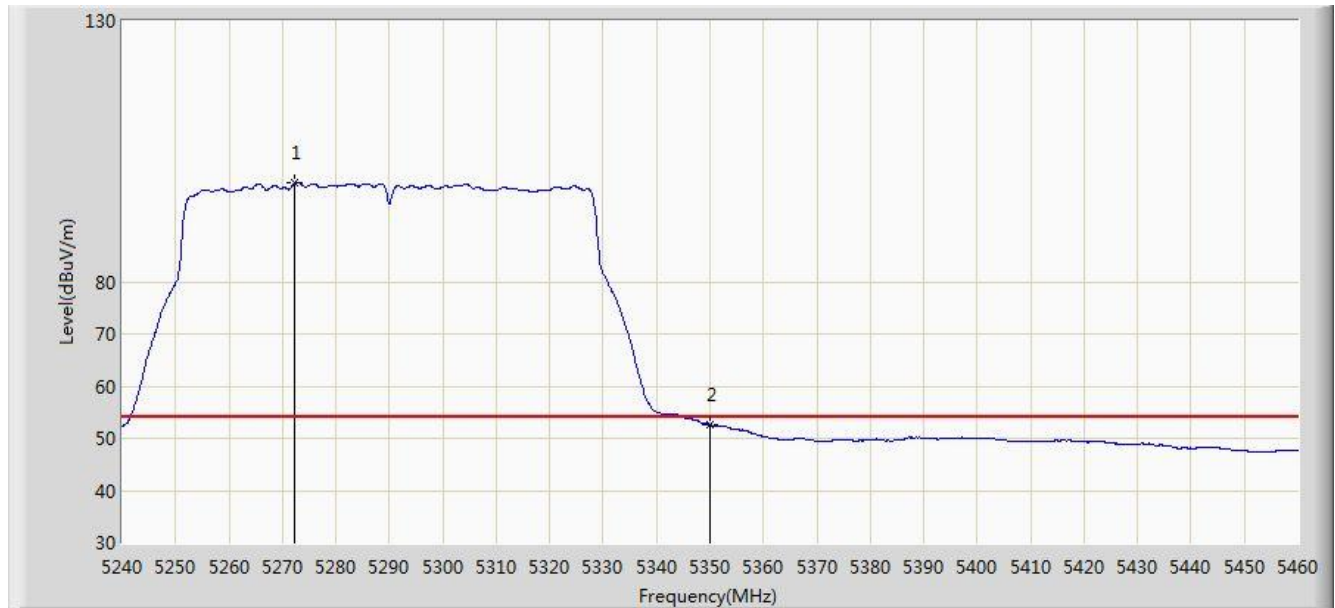


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5275.860	111.927	109.246	N/A	N/A	2.682	PK
2			5350.000	65.445	62.748	-8.555	74.000	2.697	PK
3			5401.810	67.011	64.040	-6.989	74.000	2.971	PK

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: 2017/02/26 - 16:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5690MHz Ant 0 + 1	

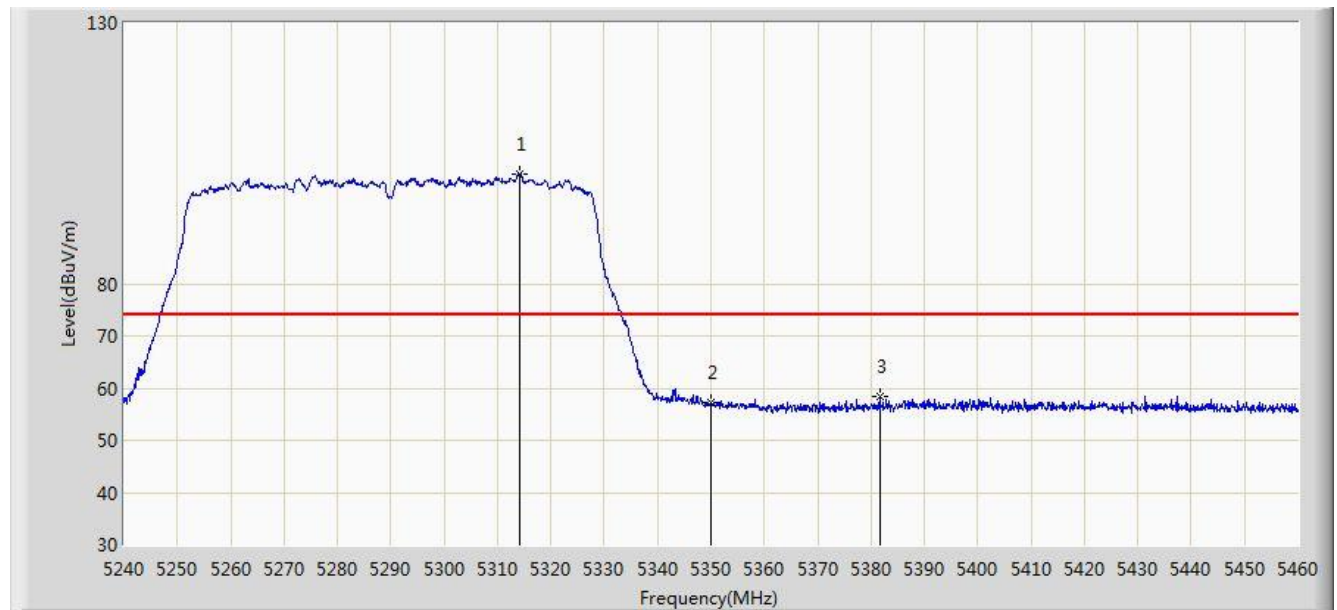


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5272.340	98.961	96.283	N/A	N/A	2.679	AV
2			5350.000	52.555	49.858	-1.445	54.000	2.697	AV

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: 2017/02/26 - 16:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5690MHz Ant 0 + 1	

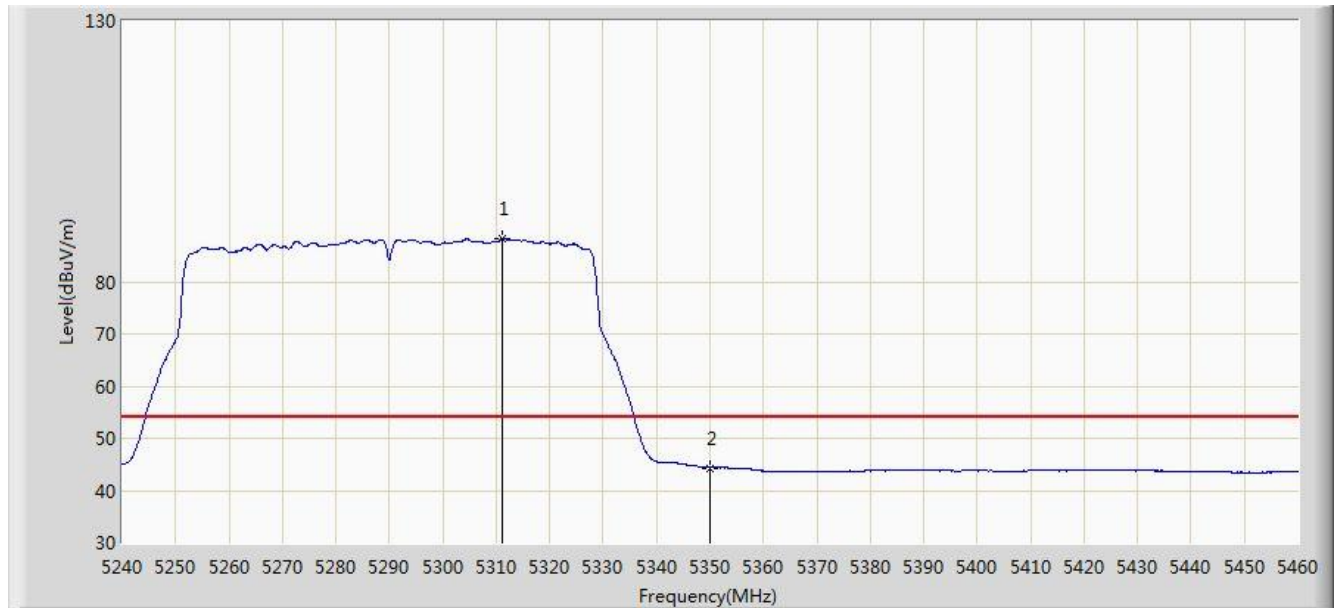


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5314.140	101.149	98.531	N/A	N/A	2.618	PK
2			5350.000	57.198	54.501	-16.802	74.000	2.697	PK
3			5381.570	58.299	55.157	-15.701	74.000	3.142	PK

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: 2017/02/26 - 16:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5690MHz Ant 0 + 1	

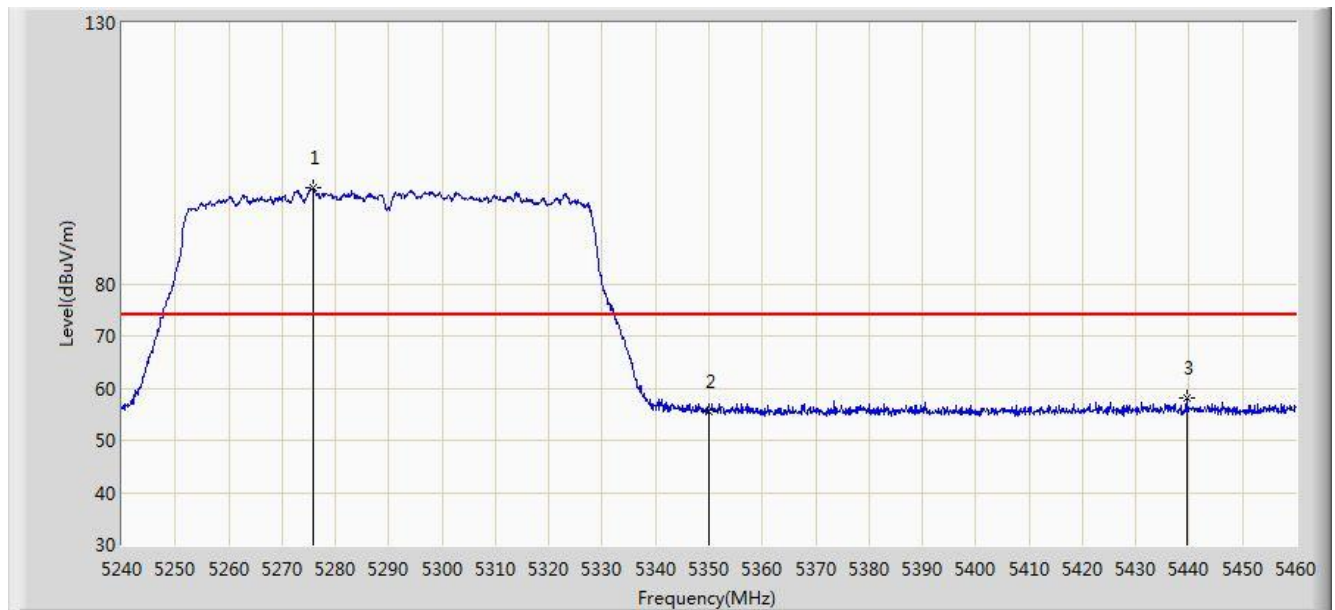


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5311.170	88.174	85.569	N/A	N/A	2.605	AV
2			5350.000	44.341	41.644	-9.659	54.000	2.697	AV

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: 2017/02/26 - 17:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

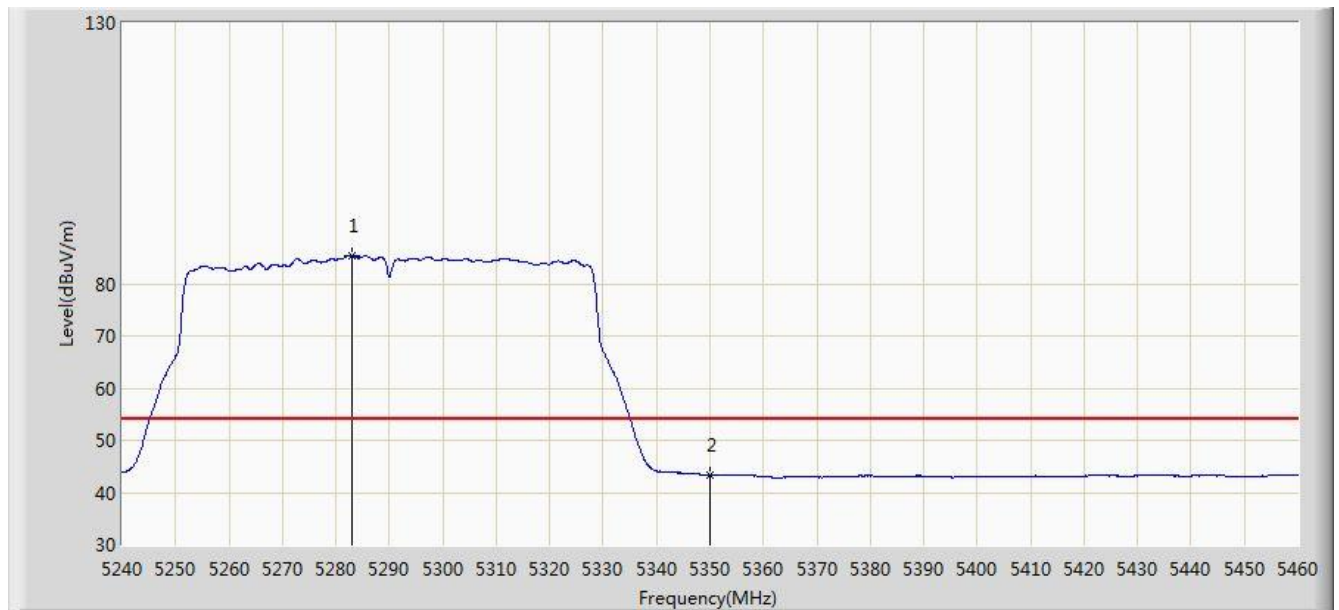


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5275.970	98.455	95.774	N/A	N/A	2.682	PK
2			5350.000	55.561	52.864	-18.439	74.000	2.697	PK
3			5439.540	58.041	54.799	-15.959	74.000	3.242	PK

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: 2017/02/26 - 17:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

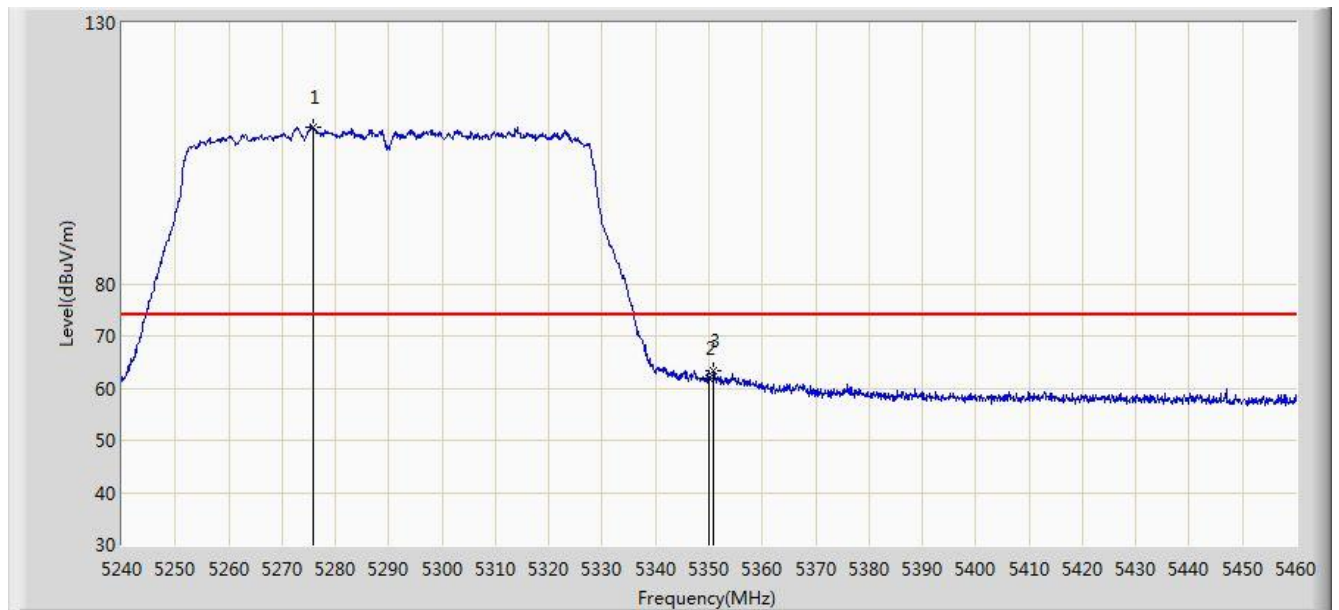


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5282.900	85.459	82.769	N/A	N/A	2.690	AV
2			5350.000	43.379	40.682	-10.621	54.000	2.697	AV

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: 2017/02/26 - 17:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

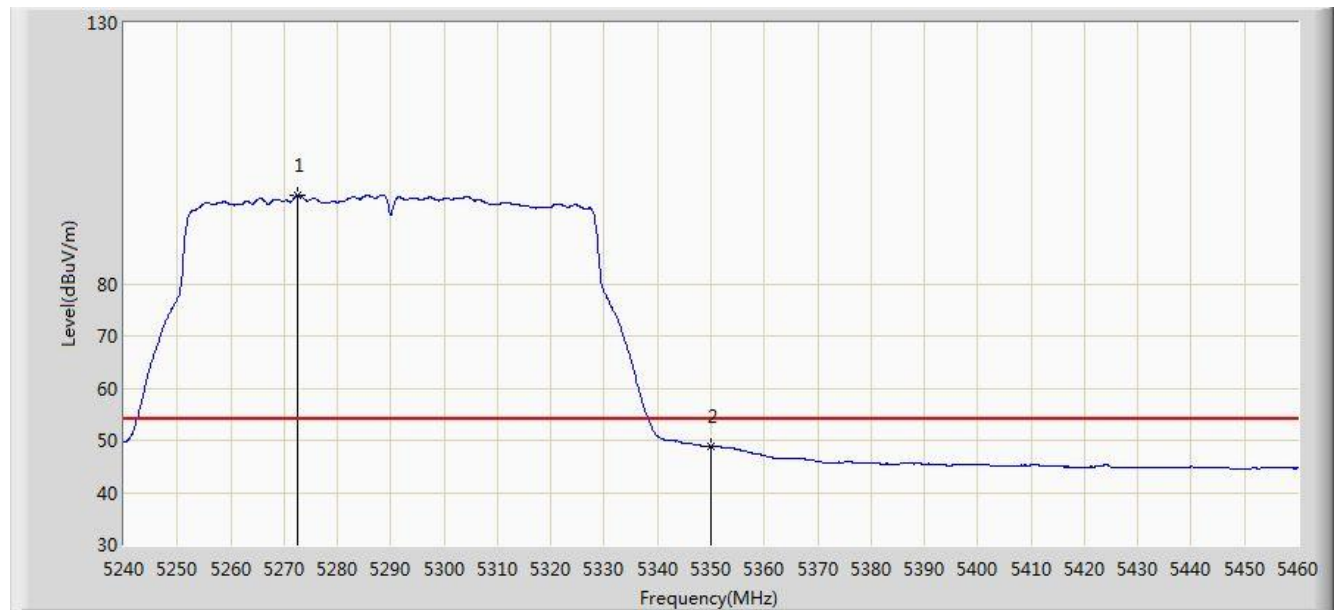


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5275.860	110.110	107.429	N/A	N/A	2.682	PK
2			5350.000	61.754	59.057	-12.246	74.000	2.697	PK
3			5350.880	63.318	60.617	-10.682	74.000	2.701	PK

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: 2017/02/26 - 17:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

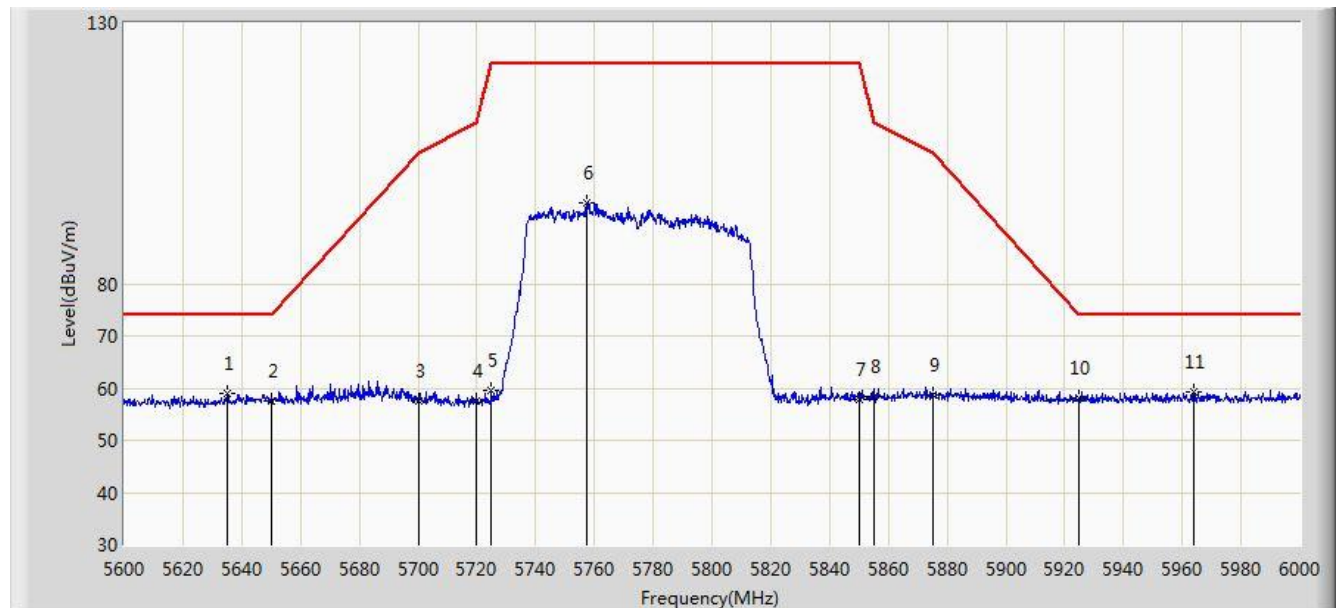


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5272.450	96.981	94.302	N/A	N/A	2.679	AV
2			5350.000	48.940	46.243	-5.060	54.000	2.697	AV

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: 2017/02/26 - 17:13
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

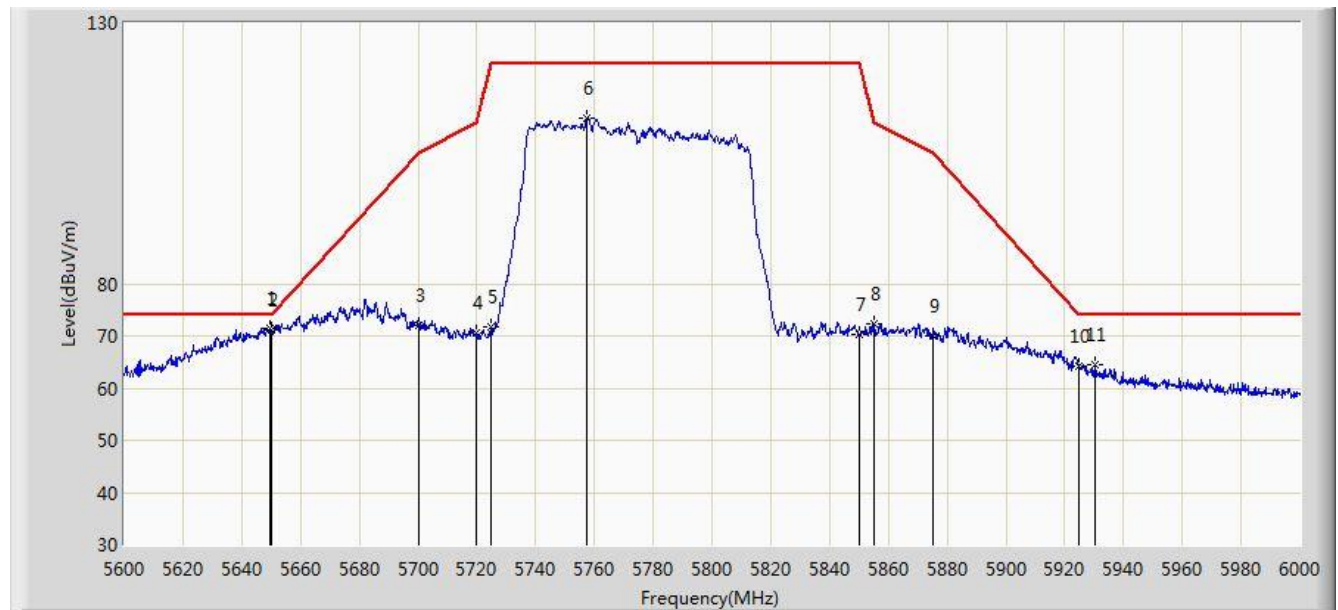


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5635.200	58.999	55.275	-15.001	74.000	3.723	PK
2			5650.000	57.614	53.811	-16.386	74.000	3.803	PK
3			5700.000	57.451	53.511	-47.749	105.200	3.940	PK
4			5720.000	57.456	53.474	-53.344	110.800	3.982	PK
5			5725.000	59.690	55.584	-62.510	122.200	4.105	PK
6			5757.600	95.426	91.028	N/A	N/A	4.398	PK
7			5850.000	57.894	52.899	-64.306	122.200	4.995	PK
8			5855.000	58.408	53.420	-52.392	110.800	4.987	PK
9			5875.000	58.800	53.793	-46.400	105.200	5.008	PK
10			5925.000	58.032	52.880	-15.968	74.000	5.152	PK
11		*	5963.800	59.387	54.055	-14.613	74.000	5.333	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: 2017/02/26 - 17:10
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5290MHz + 5775MHz Ant 0 + 1	

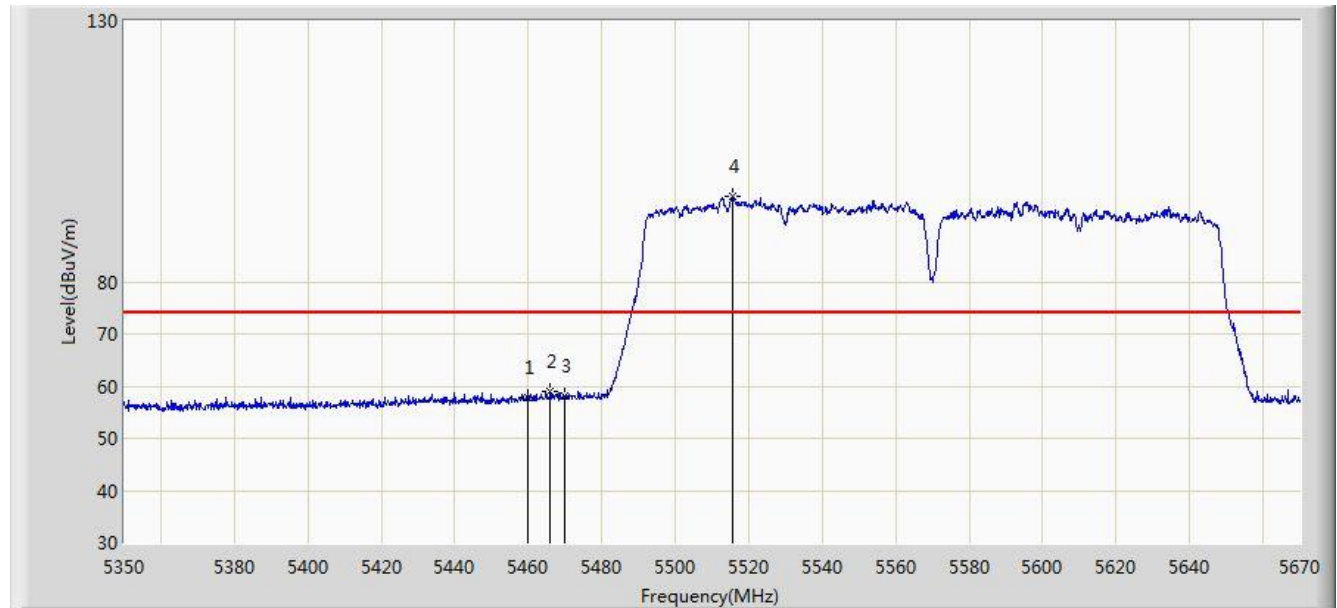


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5649.400	71.429	67.612	-2.571	74.000	3.818	PK
2			5650.000	71.247	67.444	-2.753	74.000	3.803	PK
3			5700.000	71.951	68.011	-33.249	105.200	3.940	PK
4			5720.000	70.645	66.663	-40.155	110.800	3.982	PK
5			5725.000	71.710	67.604	-50.490	122.200	4.105	PK
6			5757.600	111.763	107.365	N/A	N/A	4.398	PK
7			5850.000	70.344	65.349	-51.856	122.200	4.995	PK
8			5855.000	72.295	67.307	-38.505	110.800	4.987	PK
9			5875.000	69.963	64.956	-35.237	105.200	5.008	PK
10			5925.000	64.243	59.091	-9.757	74.000	5.152	PK
11			5930.400	64.558	59.363	-9.442	74.000	5.195	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: 2017/02/26 - 17:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5610MHz Ant 0 + 1	

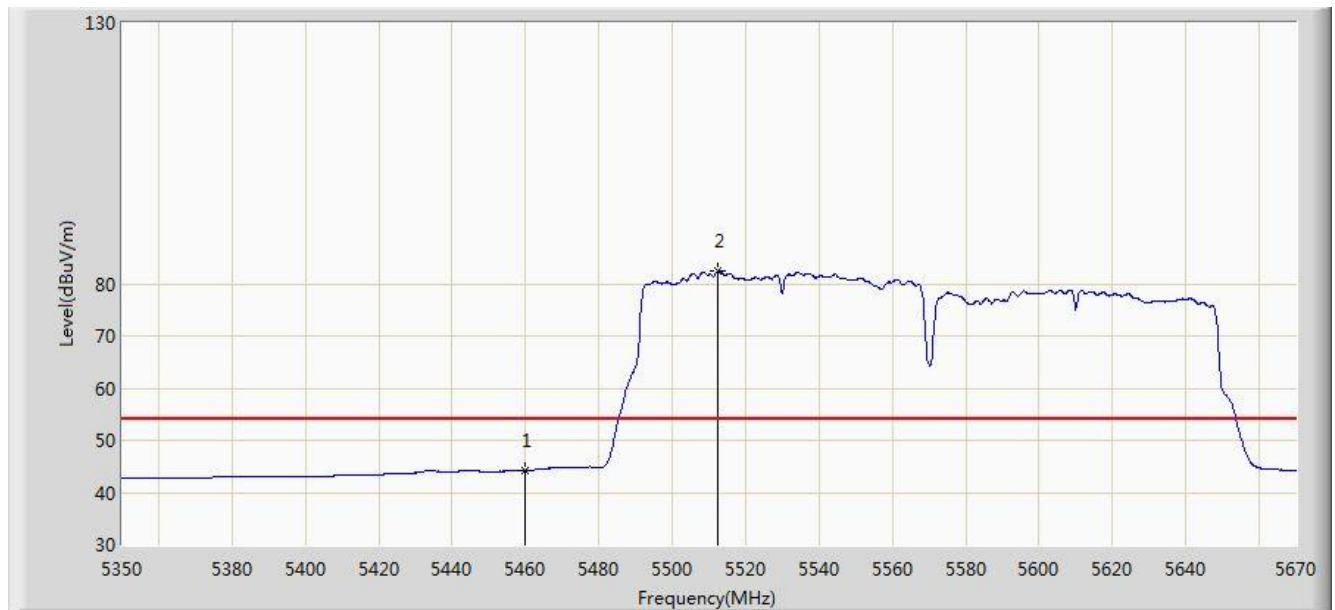


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	57.810	54.617	-16.190	74.000	3.194	PK
2			5466.000	58.899	55.504	-15.101	74.000	3.394	PK
3			5470.000	58.242	54.713	-15.758	74.000	3.529	PK
4		*	5515.760	96.311	92.983	N/A	N/A	3.328	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: 2017/02/26 - 17:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5610MHz Ant 0 + 1	

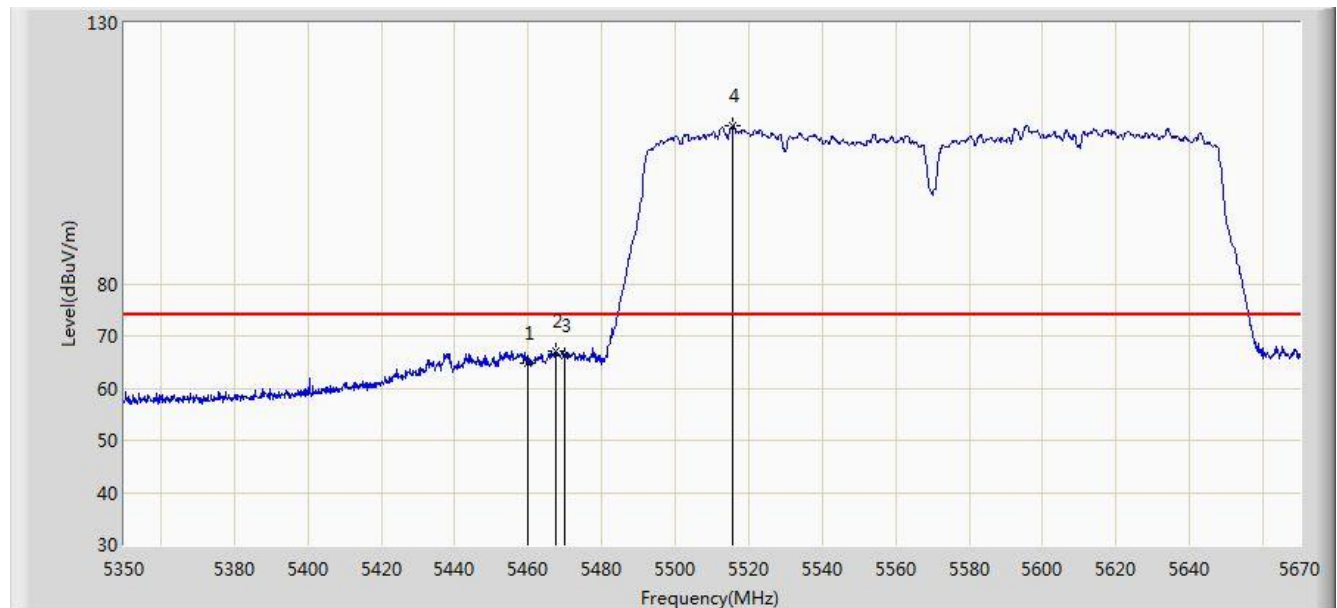


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	44.127	40.934	-9.873	54.000	3.194	AV
2		*	5512.240	82.472	79.230	N/A	N/A	3.241	AV

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: 2017/02/26 - 17:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5610MHz Ant 0 + 1	

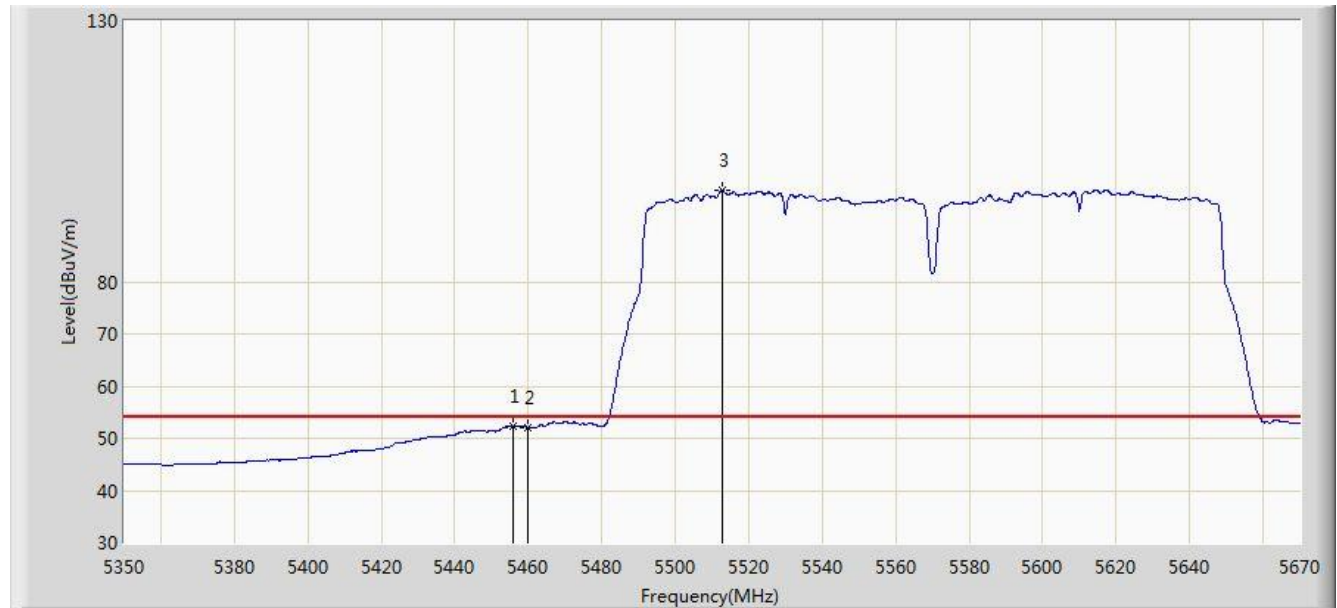


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	64.891	61.698	-9.109	74.000	3.194	PK
2			5467.440	67.193	63.750	-6.807	74.000	3.444	PK
3			5470.000	66.355	62.826	-7.645	74.000	3.529	PK
4		*	5515.760	110.251	106.923	N/A	N/A	3.328	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: 2017/02/26 - 17:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5610MHz Ant 0 + 1	

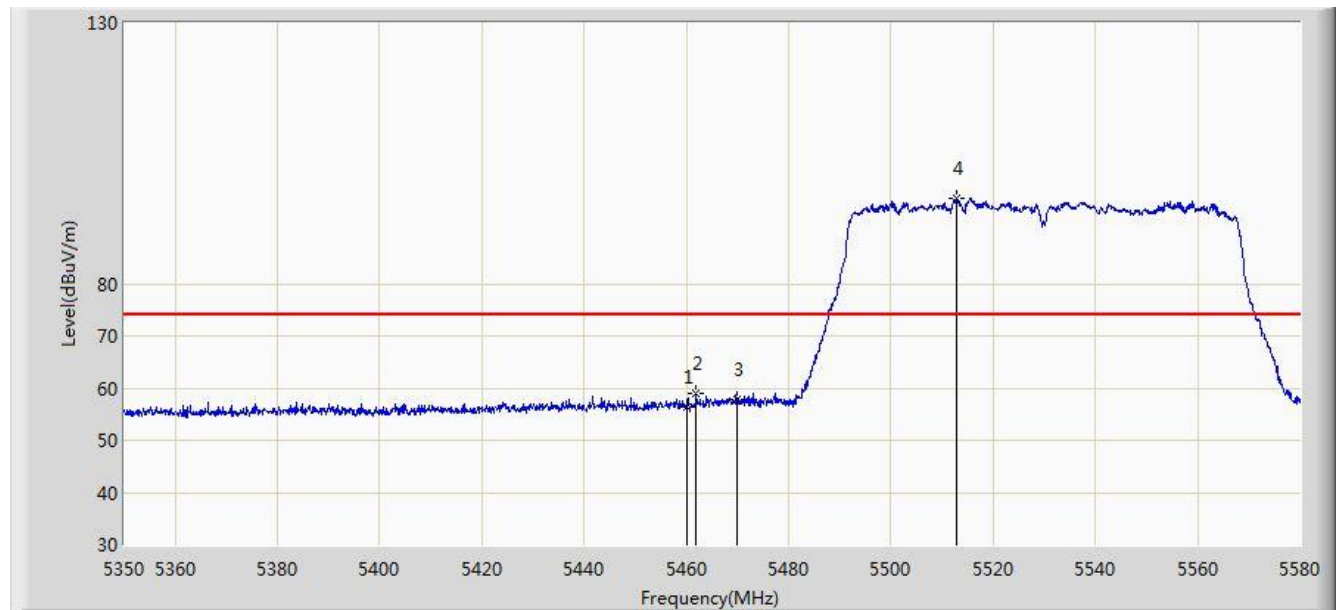


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5455.760	52.414	49.363	-1.586	54.000	3.051	AV
2			5460.000	52.119	48.926	-1.881	54.000	3.194	AV
3		*	5512.720	97.544	94.290	N/A	N/A	3.254	AV

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: 2017/02/26 - 17:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5690MHz Ant 0 + 1	

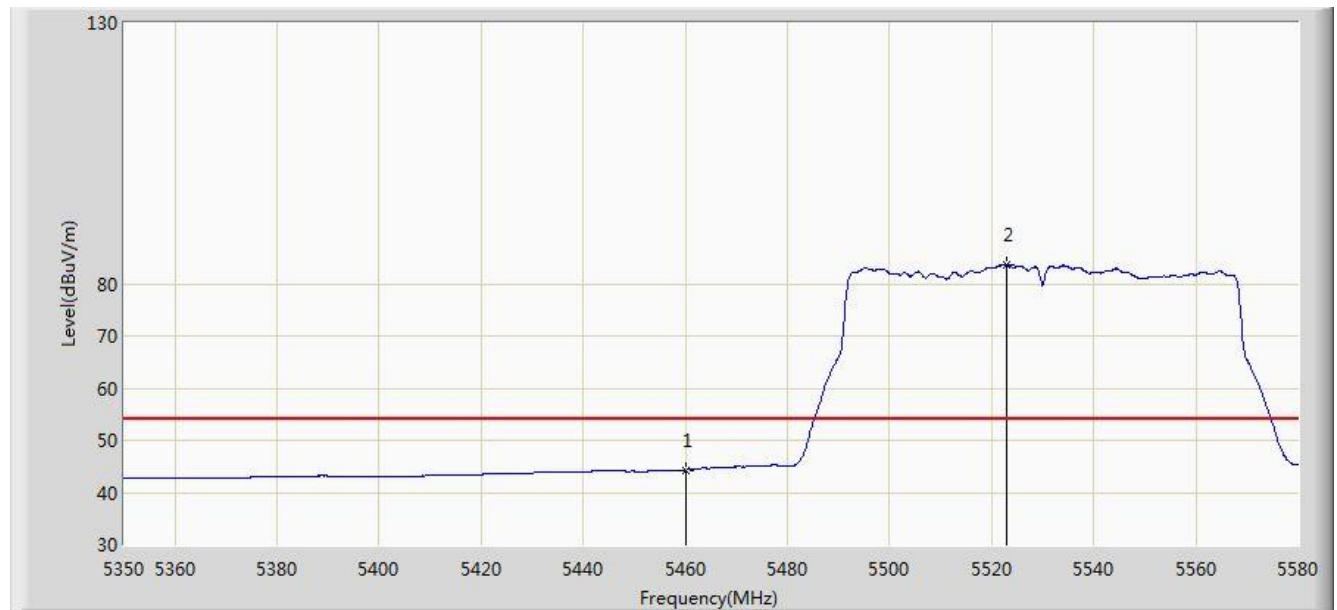


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	56.472	53.279	-17.528	74.000	3.194	PK
2			5461.895	59.086	55.829	-14.914	74.000	3.257	PK
3			5470.000	57.716	54.187	-16.284	74.000	3.529	PK
4		*	5512.840	96.390	93.133	N/A	N/A	3.257	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: 2017/02/26 - 17:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5690MHz Ant 0 + 1	

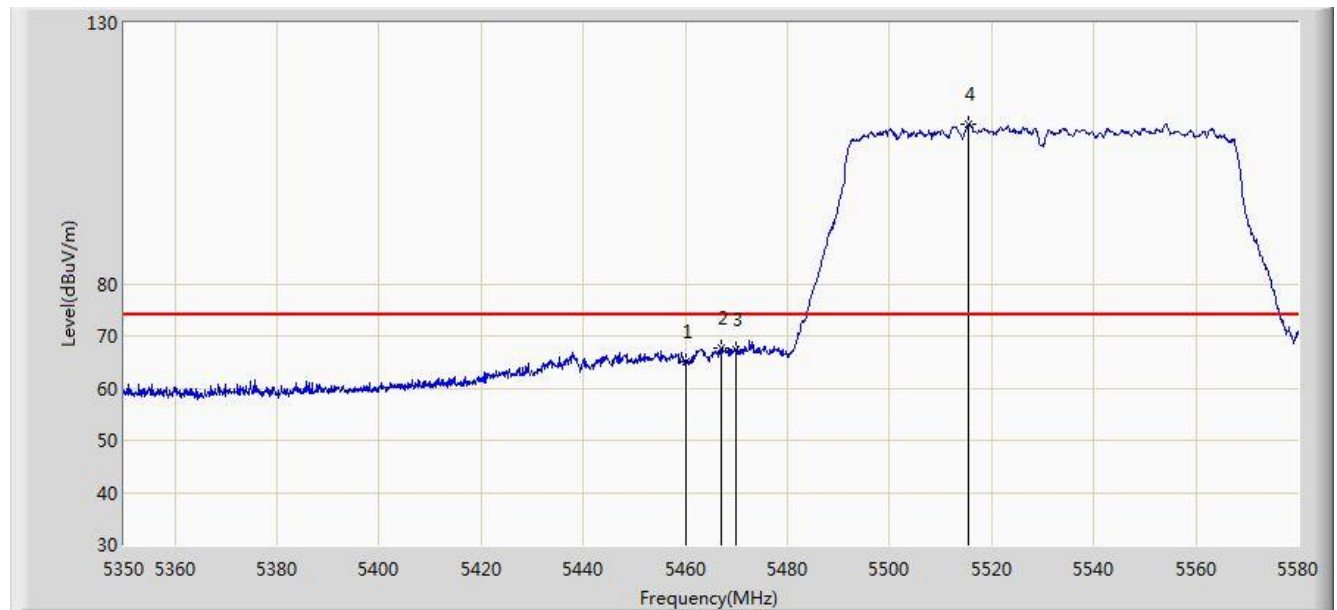


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	44.339	41.146	-9.661	54.000	3.194	AV
2		*	5522.960	83.748	80.267	N/A	N/A	3.481	AV

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: 2017/02/26 - 17:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5690MHz Ant 0 + 1	

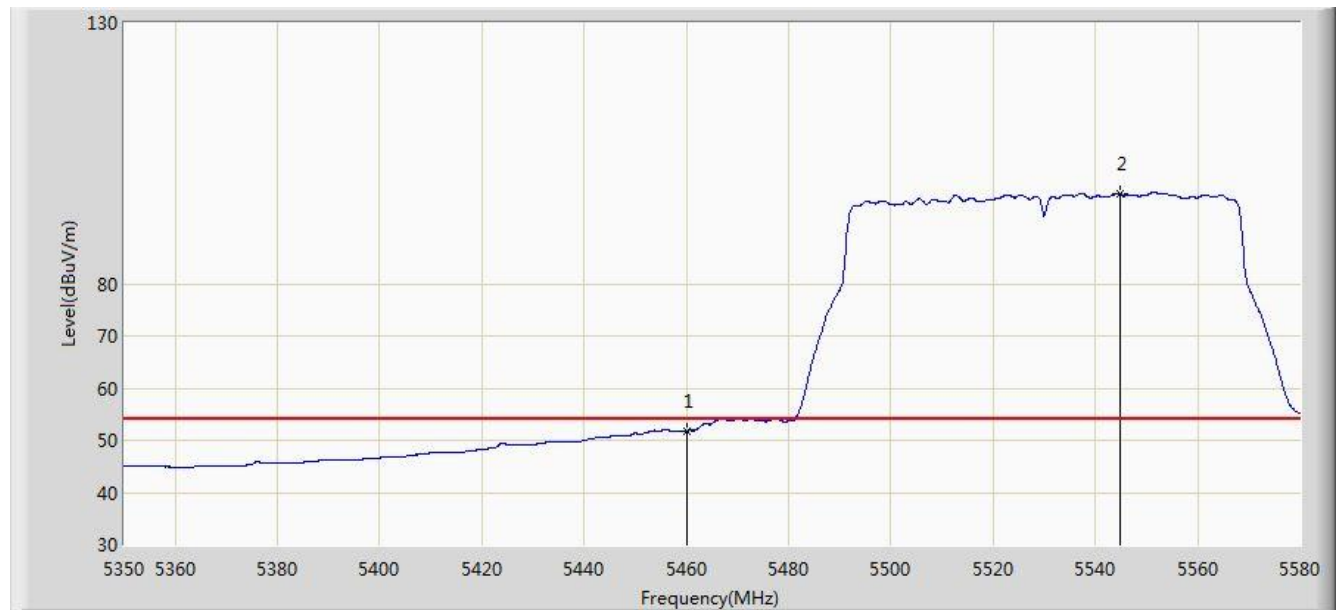


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	64.981	61.788	-9.019	74.000	3.194	PK
2			5467.070	67.809	64.378	-6.191	74.000	3.430	PK
3			5470.000	67.365	63.836	-6.635	74.000	3.529	PK
4		*	5515.485	110.445	107.124	N/A	N/A	3.320	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: 2017/02/26 - 17:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5690MHz Ant 0 + 1	

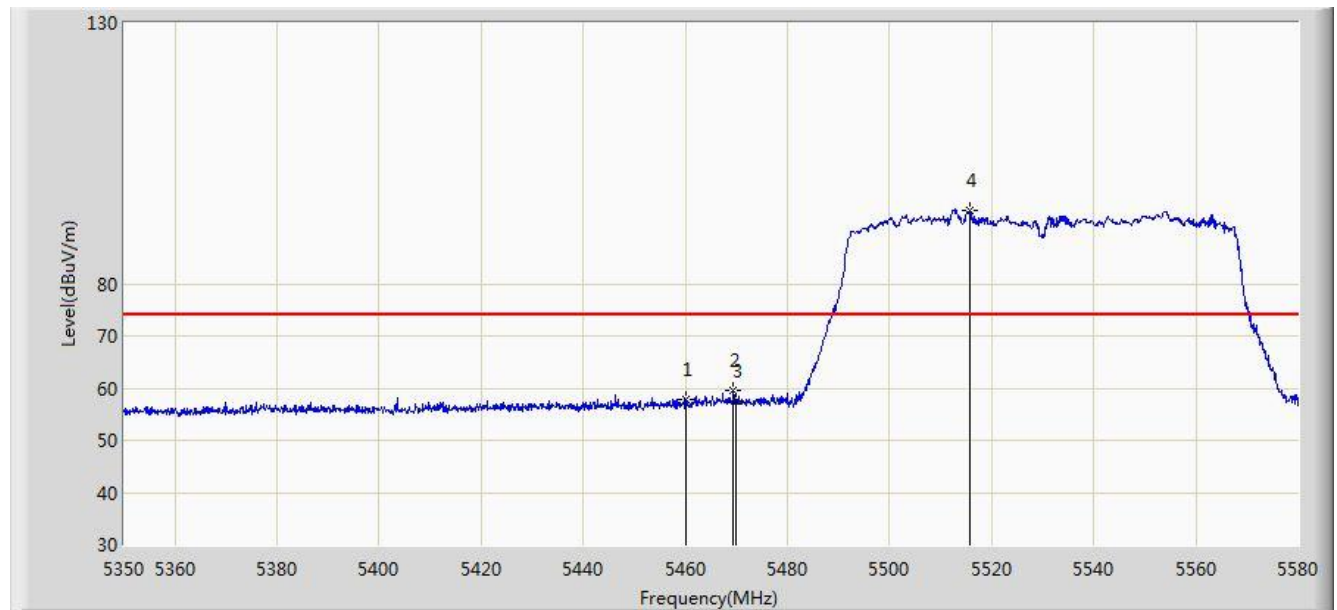


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	51.818	48.625	-2.182	54.000	3.194	AV
2		*	5544.810	97.270	93.854	N/A	N/A	3.416	AV

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: 2017/02/26 - 18:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

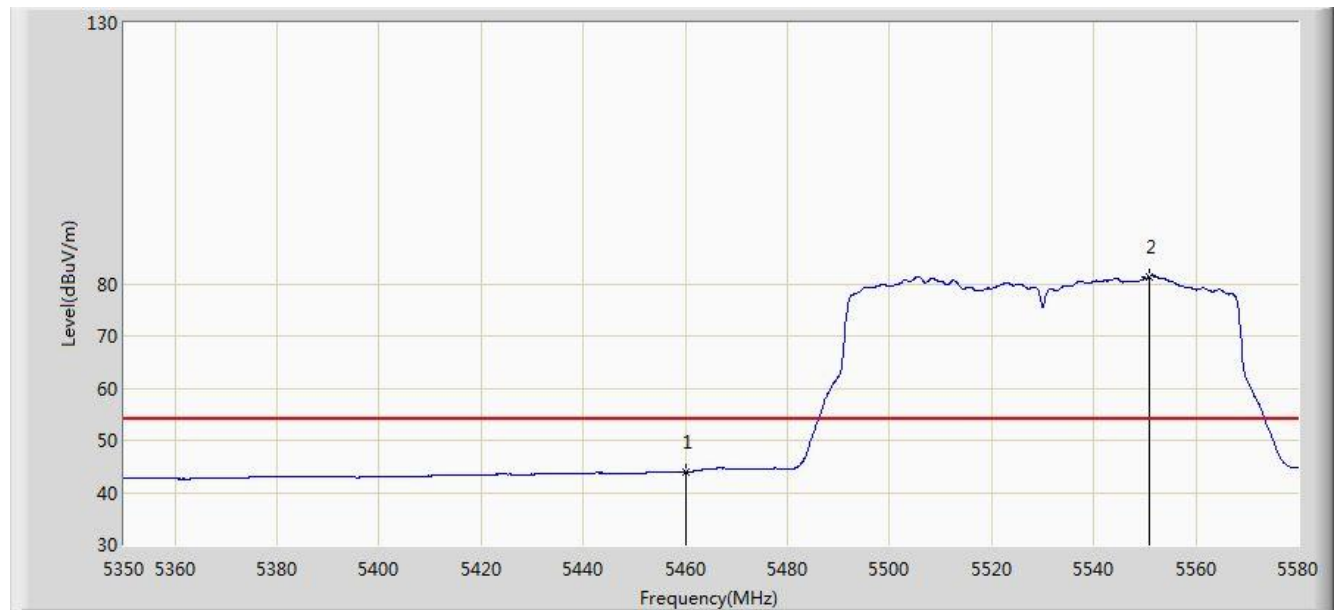


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	57.794	54.601	-16.206	74.000	3.194	PK
2			5469.370	59.429	55.921	-14.571	74.000	3.508	PK
3			5470.000	57.398	53.869	-16.602	74.000	3.529	PK
4		*	5515.715	94.181	90.855	N/A	N/A	3.327	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: 2017/02/26 - 18:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

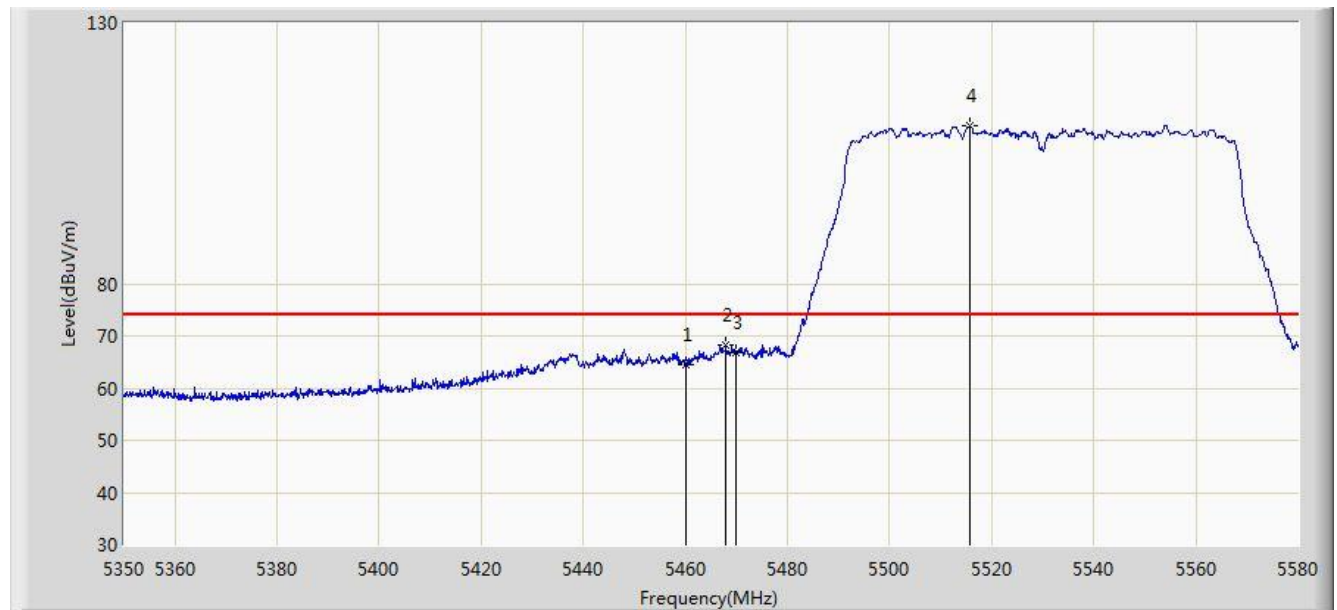


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	43.979	40.786	-10.021	54.000	3.194	AV
2		*	5551.020	81.432	77.904	N/A	N/A	3.529	AV

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: 2017/02/26 - 18:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

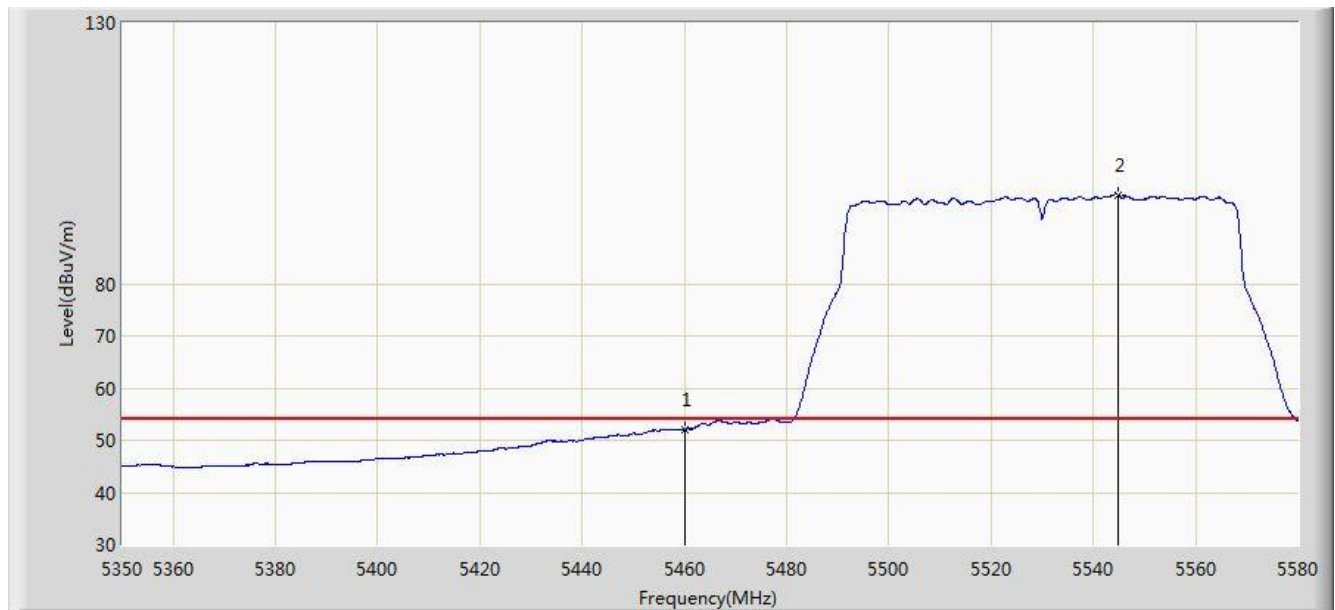


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	64.507	61.314	-9.493	74.000	3.194	PK
2			5467.875	68.126	64.668	-5.874	74.000	3.458	PK
3			5470.000	66.853	63.324	-7.147	74.000	3.529	PK
4		*	5515.830	110.238	106.909	N/A	N/A	3.330	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: 2017/02/26 - 18:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

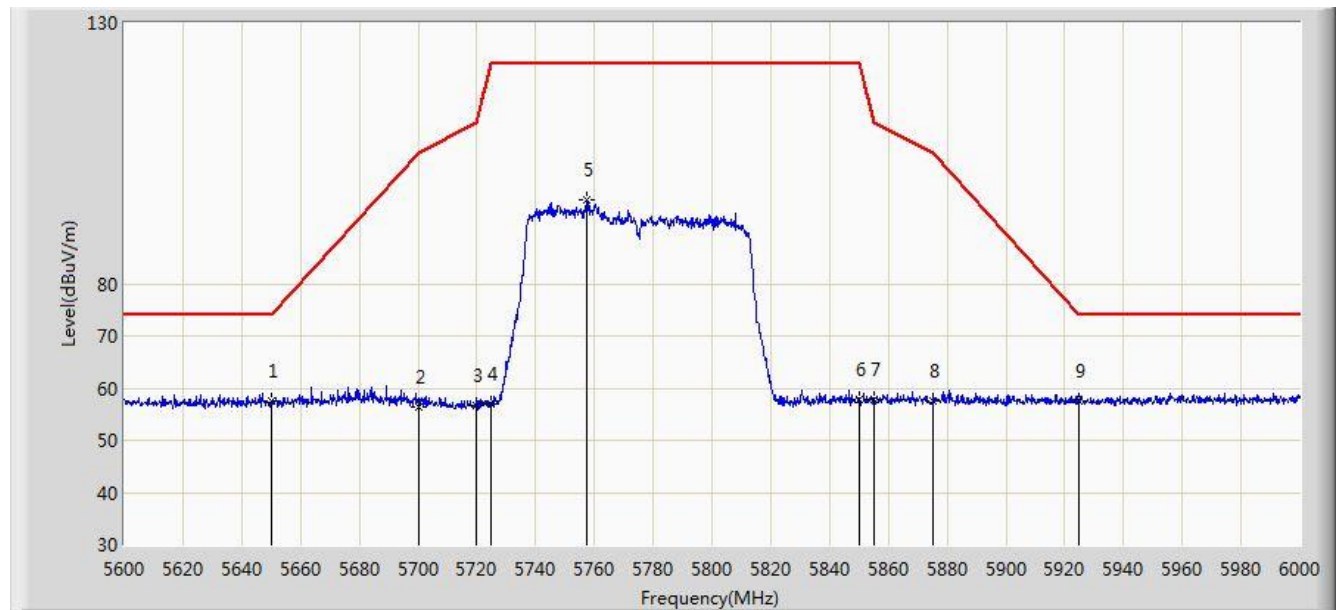


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	52.156	48.963	-1.844	54.000	3.194	AV
2		*	5544.810	97.018	93.602	N/A	N/A	3.416	AV

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: 2017/02/26 - 18:00
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

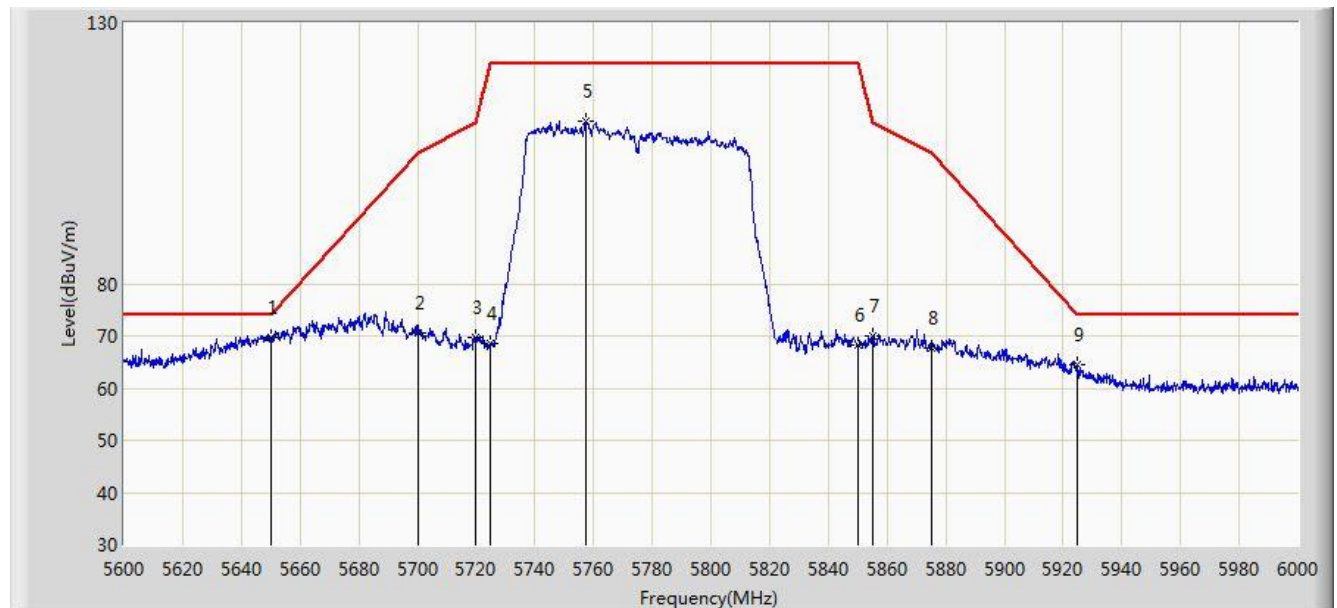


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	57.580	53.777	-16.420	74.000	3.803	PK
2			5700.000	56.476	52.536	-48.724	105.200	3.940	PK
3			5720.000	56.561	52.579	-54.239	110.800	3.982	PK
4			5725.000	57.073	52.967	-65.127	122.200	4.105	PK
5			5757.400	96.006	91.611	N/A	N/A	4.395	PK
6			5850.000	57.851	52.856	-64.349	122.200	4.995	PK
7			5855.000	57.927	52.939	-52.873	110.800	4.987	PK
8			5875.000	57.472	52.465	-47.728	105.200	5.008	PK
9			5925.000	57.472	52.320	-16.528	74.000	5.152	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: 2017/02/26 - 17:57
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5530MHz + 5775MHz Ant 0 + 1	

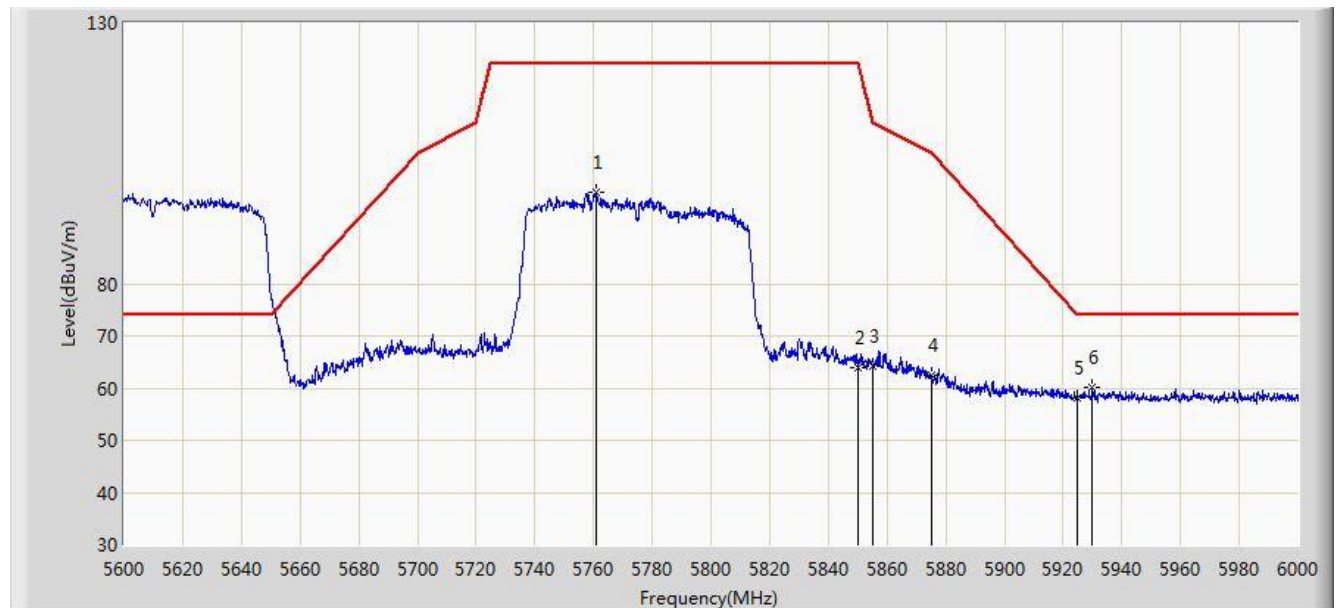


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5650.000	69.667	65.864	-4.333	74.000	3.803	PK
2			5700.000	70.714	66.774	-34.486	105.200	3.940	PK
3			5720.000	69.796	65.814	-41.004	110.800	3.982	PK
4			5725.000	68.666	64.560	-53.534	122.200	4.105	PK
5			5757.200	111.032	106.640	N/A	N/A	4.391	PK
6			5850.000	68.352	63.357	-53.848	122.200	4.995	PK
7			5855.000	69.966	64.978	-40.834	110.800	4.987	PK
8			5875.000	67.791	62.784	-37.409	105.200	5.008	PK
9			5925.000	64.428	59.276	-9.572	74.000	5.152	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: 2017/02/26 - 18:24
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5610MHz + 5775MHz Ant 0 + 1	

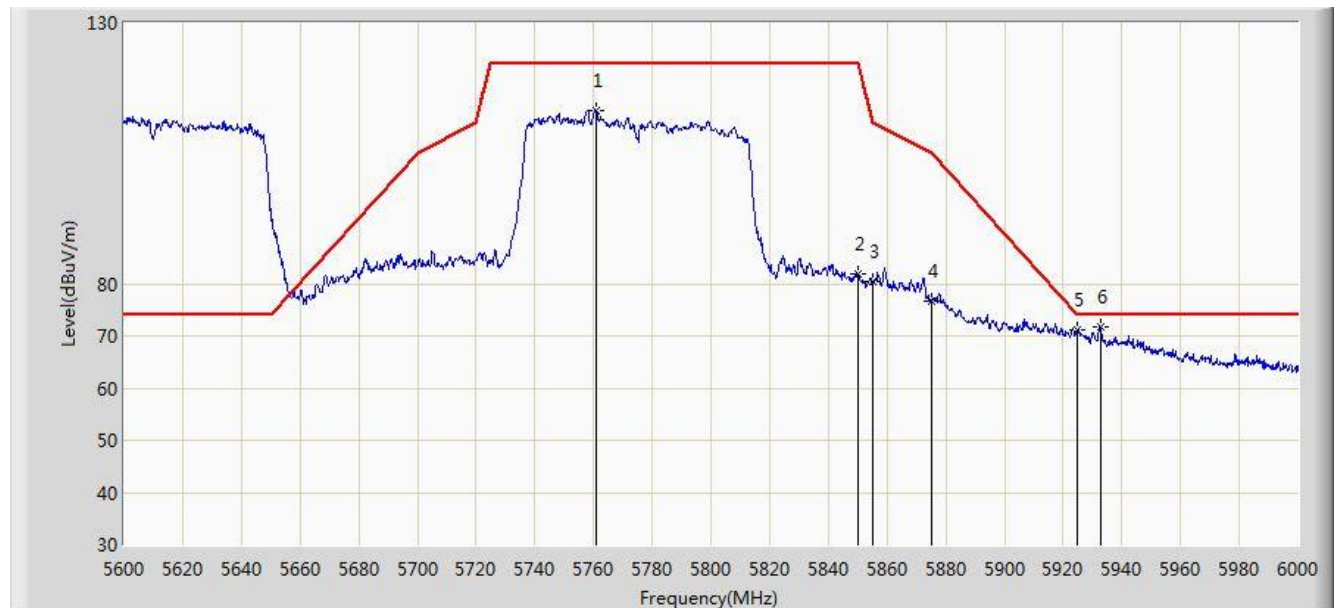


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5761.000	97.505	93.064	N/A	N/A	4.441	PK
2			5850.000	63.950	58.955	-58.250	122.200	4.995	PK
3			5855.000	64.329	59.341	-46.471	110.800	4.987	PK
4			5875.000	62.446	57.439	-42.754	105.200	5.008	PK
5			5925.000	58.110	52.958	-15.890	74.000	5.152	PK
6		*	5930.000	60.174	54.978	-13.826	74.000	5.197	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: 2017/02/26 - 18:17
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5610MHz + 5775MHz Ant 0 + 1	

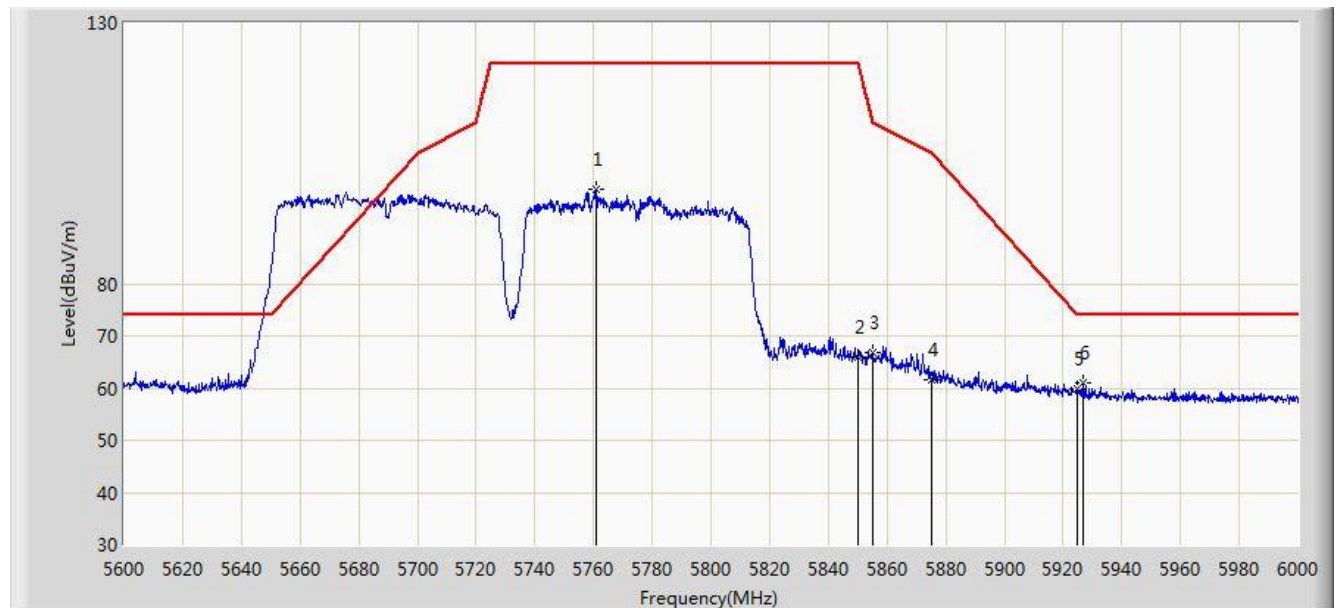


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5761.000	113.233	108.792	N/A	N/A	4.441	PK
2			5850.000	81.823	76.828	-40.377	122.200	4.995	PK
3			5855.000	80.455	75.467	-30.345	110.800	4.987	PK
4			5875.000	76.708	71.701	-28.492	105.200	5.008	PK
5			5925.000	71.050	65.898	-2.950	74.000	5.152	PK
6		*	5932.600	71.804	66.614	-2.196	74.000	5.189	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: 2017/02/26 - 18:29
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5690MHz + 5775MHz Ant 0 + 1	

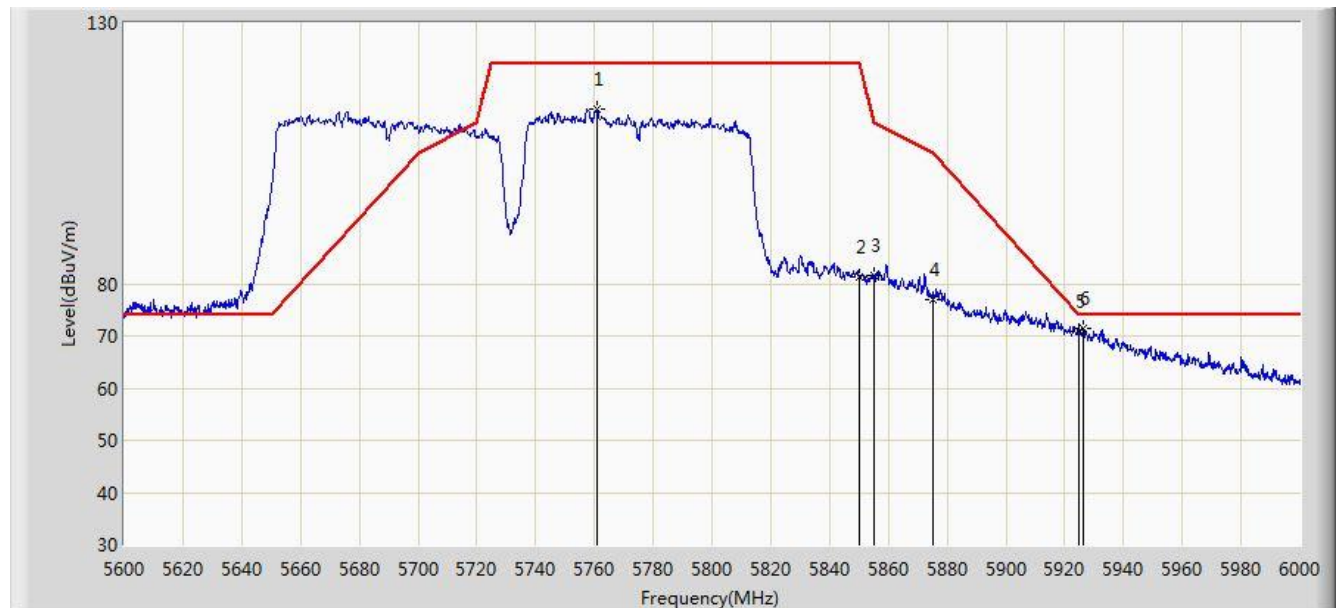


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5760.800	98.020	93.580	N/A	N/A	4.440	PK
2			5850.000	65.914	60.919	-56.286	122.200	4.995	PK
3			5855.000	66.740	61.752	-44.060	110.800	4.987	PK
4			5875.000	61.735	56.728	-43.465	105.200	5.008	PK
5			5925.000	59.793	54.641	-14.207	74.000	5.152	PK
6		*	5926.600	61.017	55.851	-12.983	74.000	5.166	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: 2017/02/26 - 18:27
Limit: FCC_Part15.407_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: DC 55V
Test Mode: Transmit by 802.11ac-VHT80+80 at Channel 5690MHz + 5775MHz Ant 0 + 1	

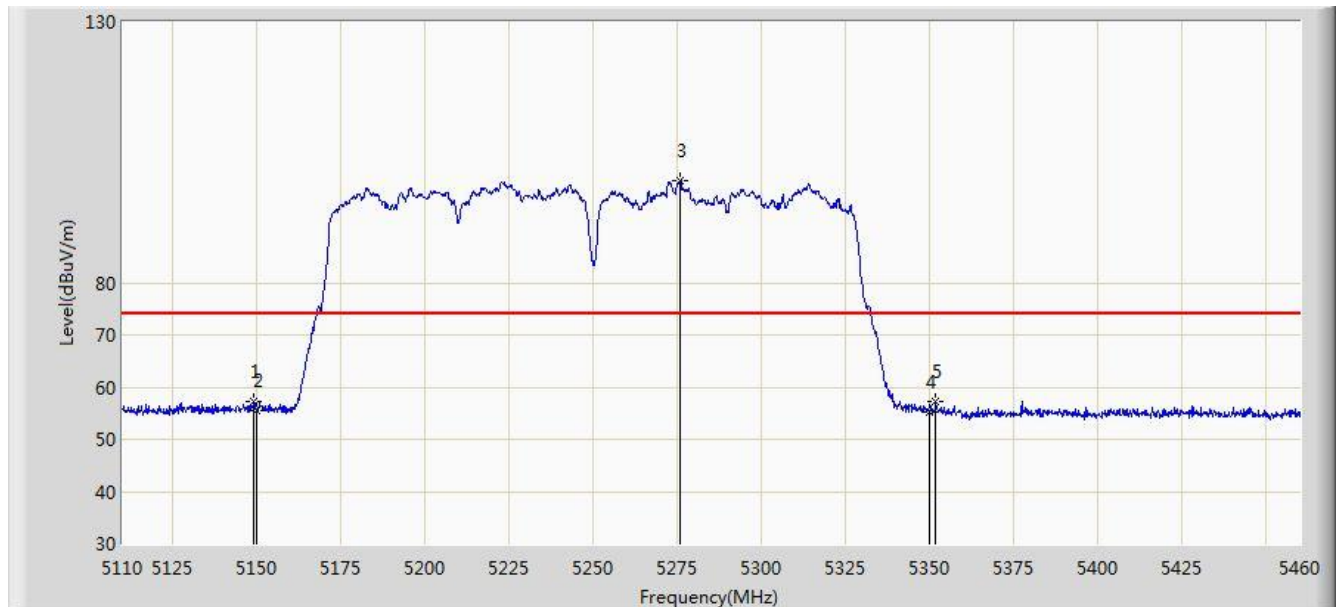


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5760.800	113.508	109.068	N/A	N/A	4.440	PK
2			5850.000	81.286	76.291	-40.914	122.200	4.995	PK
3			5855.000	81.480	76.492	-29.320	110.800	4.987	PK
4			5875.000	76.912	71.905	-28.288	105.200	5.008	PK
5			5925.000	70.863	65.711	-3.137	74.000	5.152	PK
6		*	5926.400	71.437	66.273	-2.563	74.000	5.164	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: 2017/03/27 - 20:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5250MHz Ant 0 + 1 + 2 + 3	

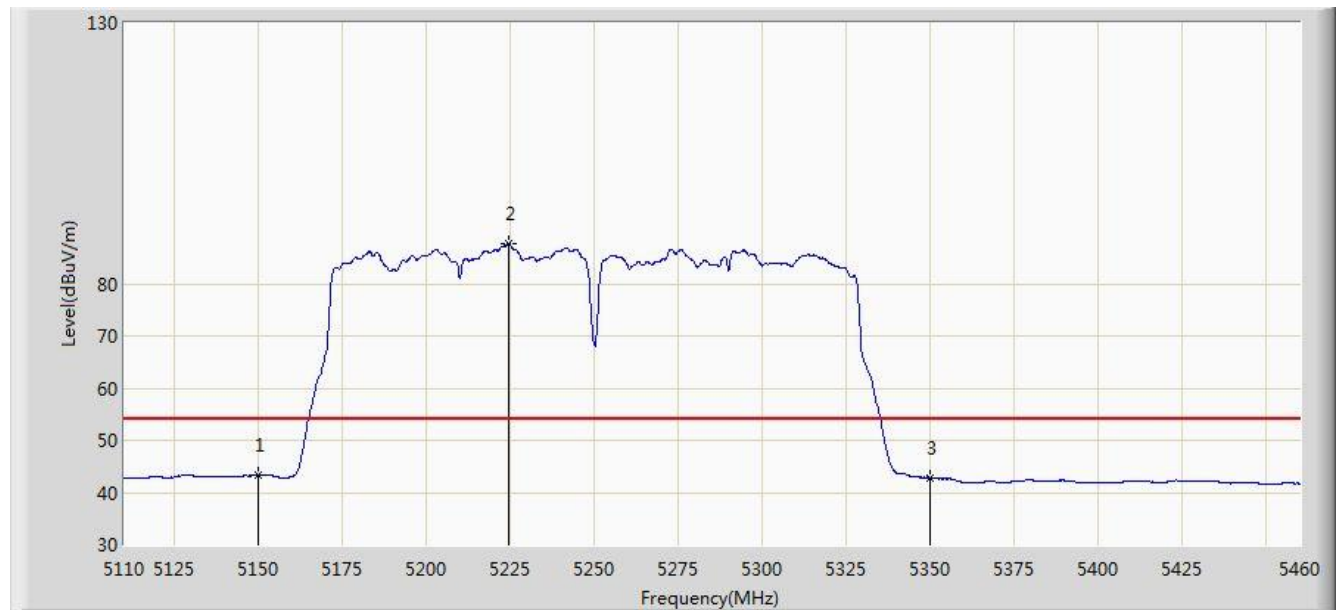


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.200	57.269	54.198	-16.731	74.000	3.072	PK
2			5150.000	55.474	52.404	-18.526	74.000	3.069	PK
3		*	5275.725	99.504	96.823	N/A	N/A	2.681	PK
4			5350.000	55.242	52.545	-18.758	74.000	2.697	PK
5			5351.675	57.118	54.414	-16.882	74.000	2.704	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: 2017/03/27 - 20:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5250MHz Ant 0 + 1 + 2 + 3	

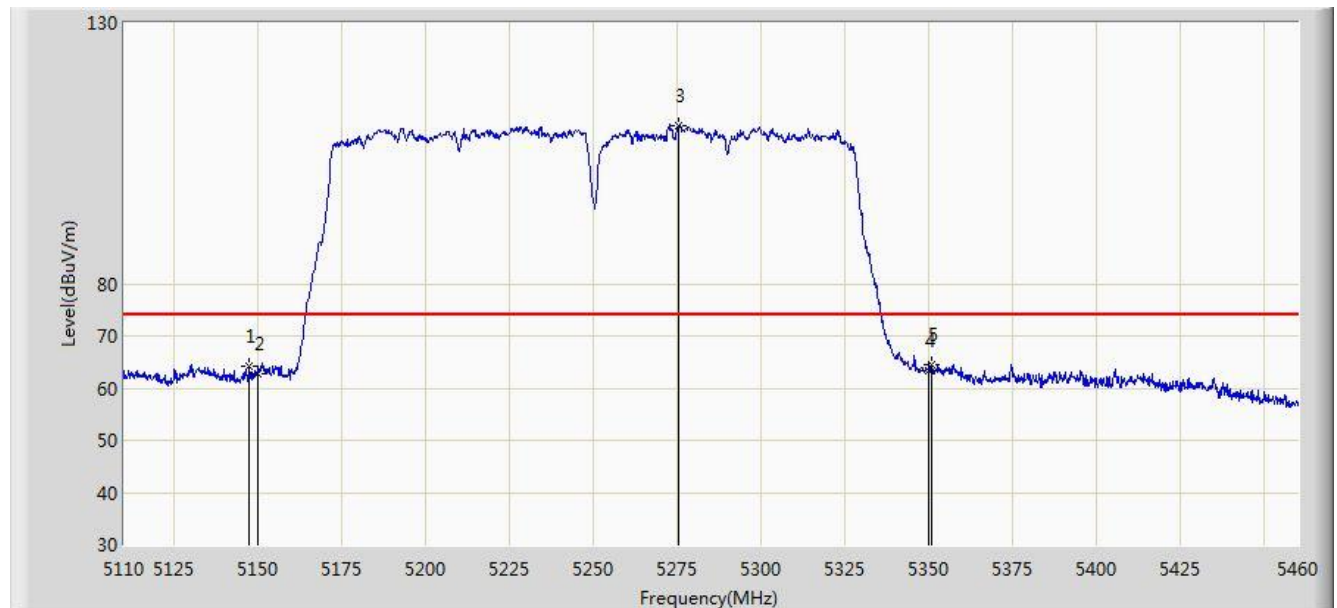


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	43.326	40.256	-10.674	54.000	3.069	AV
2		*	5224.275	87.678	84.870	N/A	N/A	2.808	AV
3			5350.000	42.860	40.163	-11.140	54.000	2.697	AV

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: 2017/03/27 - 20:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5250MHz Ant 0 + 1 + 2 + 3	

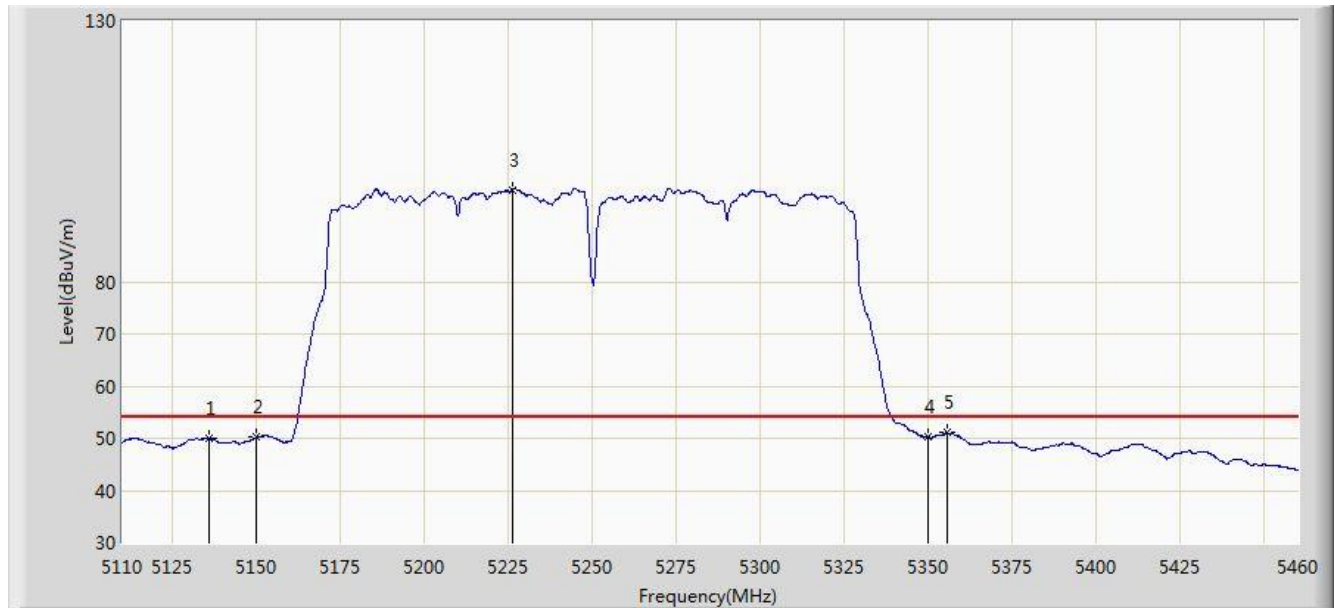


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.450	64.096	61.020	-9.904	74.000	3.076	PK
2			5150.000	62.831	59.761	-11.169	74.000	3.069	PK
3		*	5275.550	110.337	107.656	N/A	N/A	2.681	PK
4			5350.000	63.369	60.672	-10.631	74.000	2.697	PK
5			5350.625	64.451	61.751	-9.549	74.000	2.699	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: 2017/03/27 - 20:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5250MHz Ant 0 + 1 + 2 + 3	

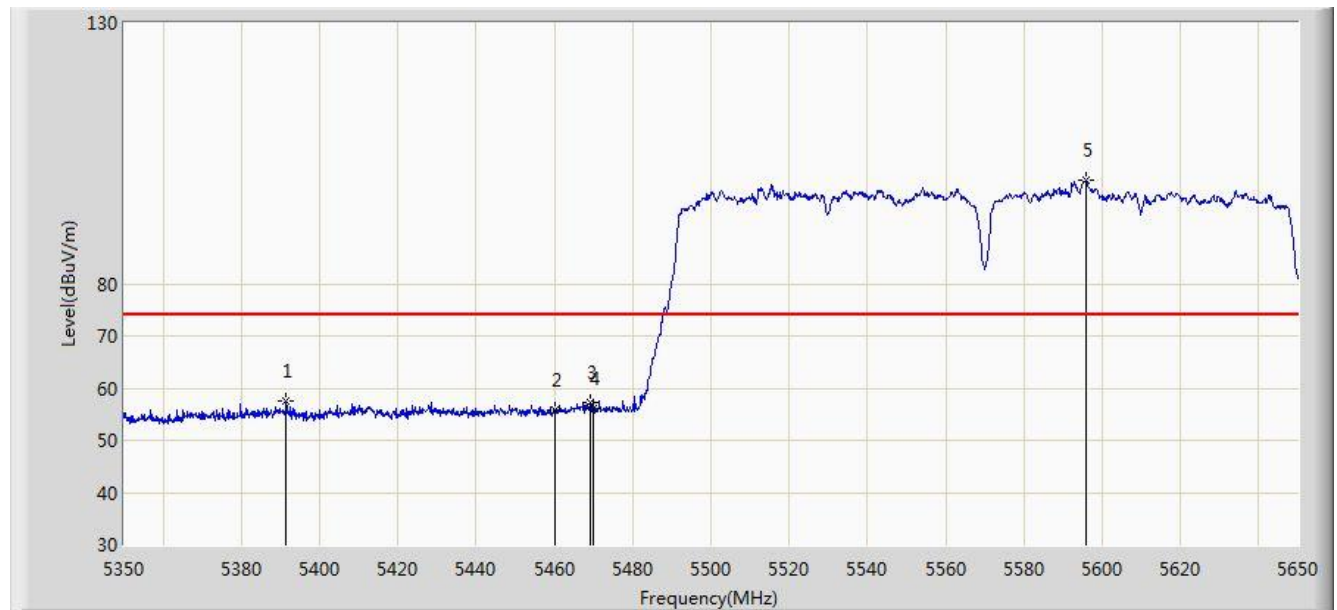


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5136.075	50.140	47.027	-3.860	54.000	3.113	AV
2			5150.000	50.162	47.092	-3.838	54.000	3.069	AV
3		*	5226.025	97.570	94.762	N/A	N/A	2.808	AV
4			5350.000	50.214	47.517	-3.786	54.000	2.697	AV
5			5355.700	51.026	48.313	-2.974	54.000	2.712	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: 2017/03/27 - 20:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5570MHz Ant 0 + 1 + 2 + 3	

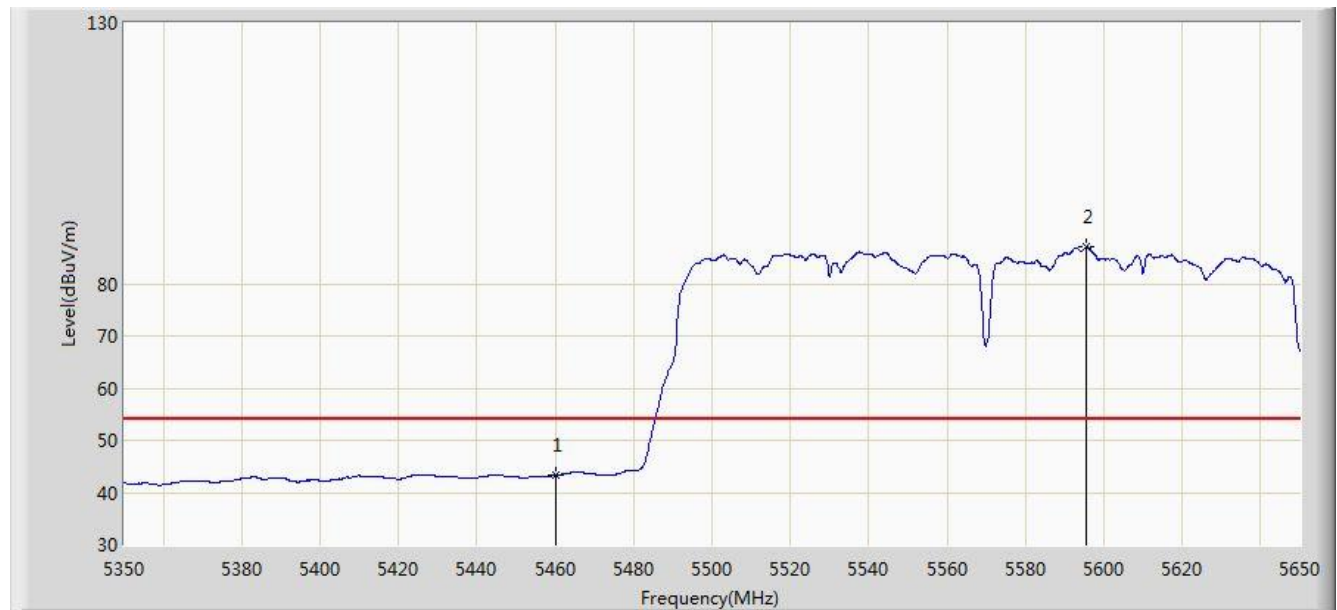


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5391.400	57.604	54.529	-16.396	74.000	3.074	PK
2			5460.000	55.653	52.460	-18.347	74.000	3.194	PK
3			5469.250	57.325	53.821	-16.675	74.000	3.504	PK
4			5470.000	56.203	52.674	-17.797	74.000	3.529	PK
5		*	5595.700	99.918	96.211	N/A	N/A	3.707	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: 2017/03/27 - 20:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5570MHz Ant 0 + 1 + 2 + 3	

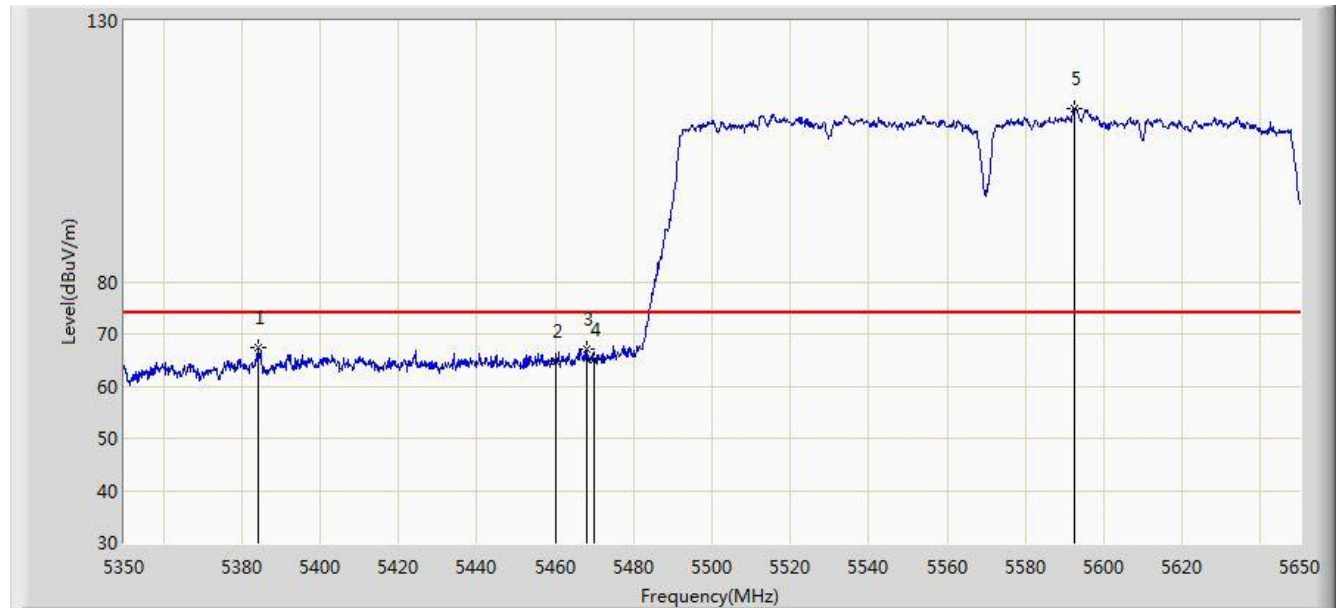


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5460.000	43.315	40.122	-10.685	54.000	3.194	AV
2		*	5595.400	87.053	83.346	N/A	N/A	3.707	AV

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: 2017/03/27 - 20:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5570MHz Ant 0 + 1 + 2 + 3	

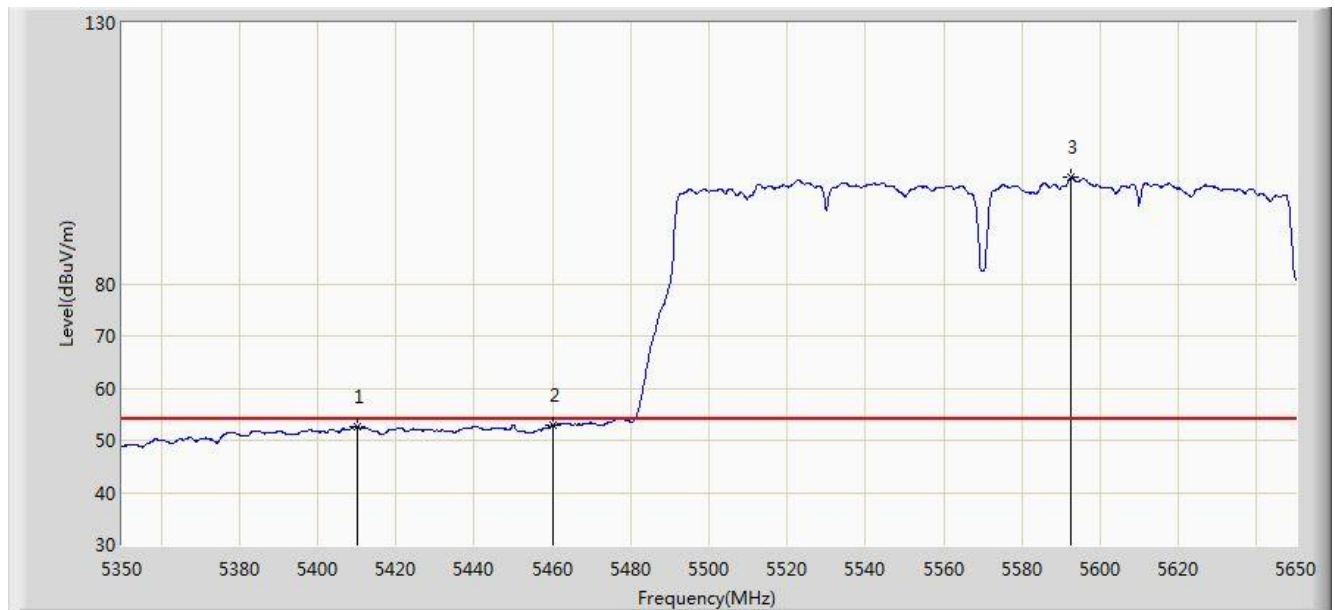


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5384.050	67.369	64.206	-6.631	74.000	3.164	PK
2			5460.000	64.808	61.615	-9.192	74.000	3.194	PK
3			5467.900	67.154	63.696	-6.846	74.000	3.458	PK
4			5470.000	65.065	61.536	-8.935	74.000	3.529	PK
5		*	5592.550	113.170	109.466	N/A	N/A	3.704	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: 2017/03/27 - 20:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Jone Zhang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: X33 MeshRanger	Power: By POE
Test Mode: Transmit by 802.11ac-VHT160 at Channel 5570MHz Ant 0 + 1 + 2 + 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5410.000	52.639	49.513	-1.361	54.000	3.126	AV
2			5460.000	52.790	49.597	-1.210	54.000	3.194	AV
3		*	5592.550	100.374	96.670	N/A	N/A	3.704	AV

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

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

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

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.

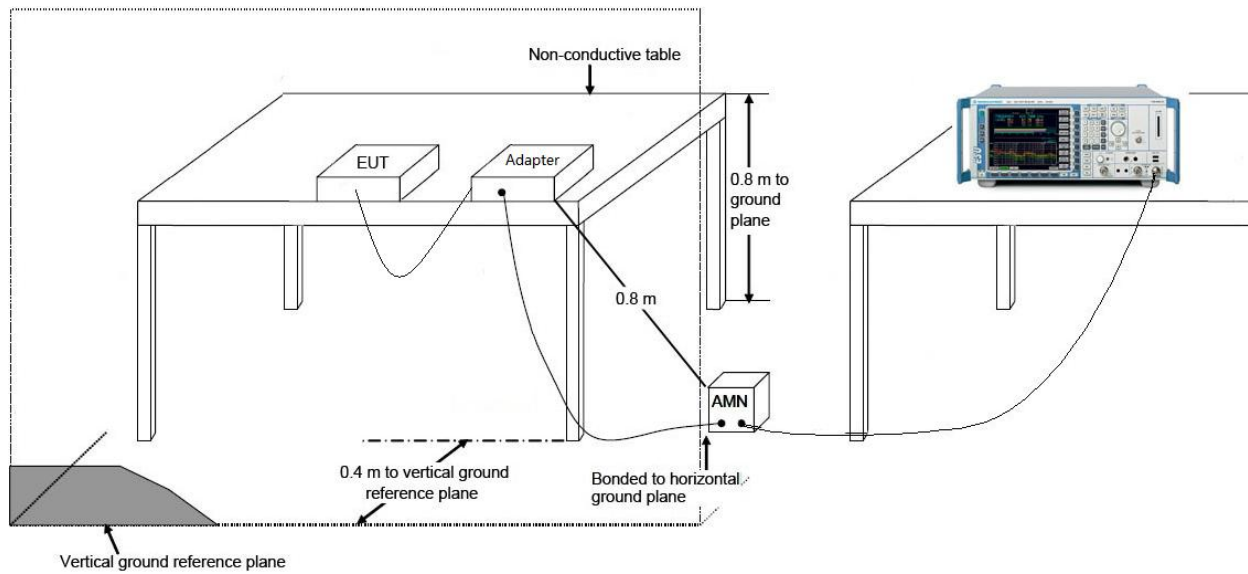
7.10.2. Test Procedure

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.

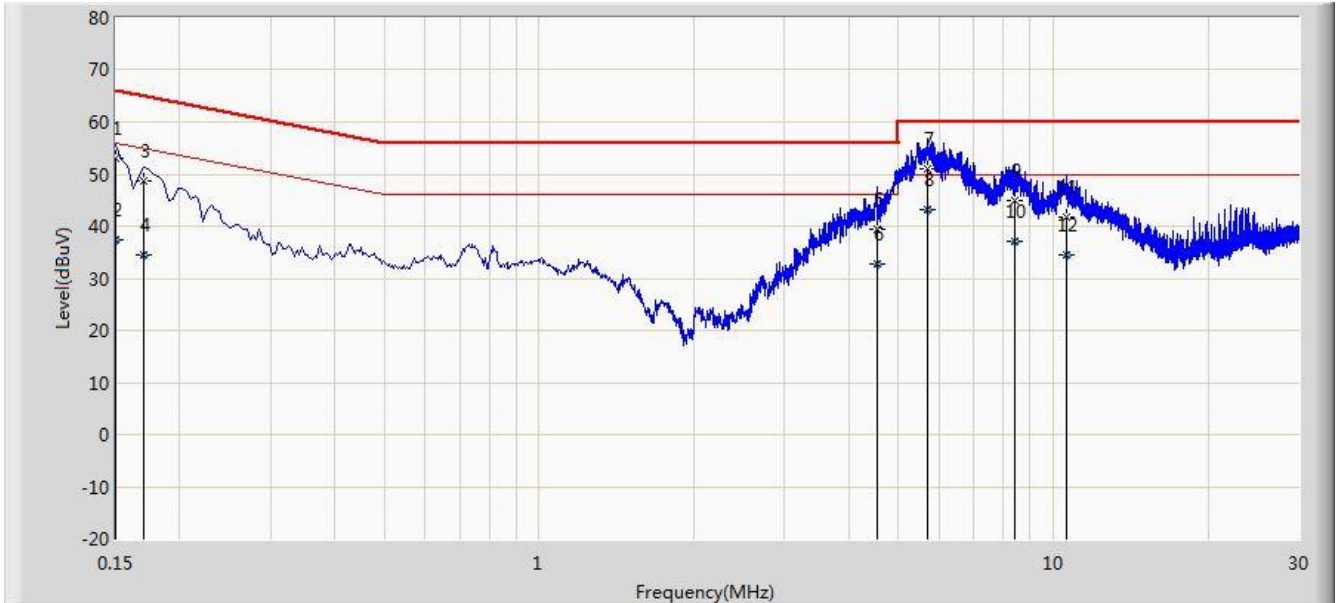
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.10.3. Test Setup



7.10.4.Test Result

Site: SR2	Time: 2017/02/21 - 11:44
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bruce Wang
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: X33 MeshRanger	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	53.168	42.000	-12.832	66.000	11.168	QP
2			0.150	37.468	26.300	-18.532	56.000	11.168	AV
3			0.170	48.778	38.700	-16.183	64.960	10.078	QP
4			0.170	34.378	24.300	-20.583	54.960	10.078	AV
5			4.534	39.293	29.300	-16.707	56.000	9.993	QP
6			4.534	32.693	22.700	-13.307	46.000	9.993	AV
7			5.686	50.997	40.900	-9.003	60.000	10.097	QP
8		*	5.686	43.097	33.000	-6.903	50.000	10.097	AV
9			8.390	44.870	34.700	-15.130	60.000	10.170	QP
10			8.390	37.170	27.000	-12.830	50.000	10.170	AV
11			10.630	41.626	31.500	-18.374	60.000	10.126	QP
12			10.630	34.526	24.400	-15.474	50.000	10.126	AV

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

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

Site: SR2	Time: 2017/02/21 - 12:01
Limit: FCC_Part15.207_CE_AC Power	Engineer: Bruce Wang
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: X33 MeshRanger	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	53.042	41.900	-12.958	66.000	11.142	QP
2			0.150	37.342	26.200	-18.658	56.000	11.142	AV
3			0.174	49.157	39.100	-15.611	64.767	10.057	QP
4			0.174	36.257	26.200	-18.511	54.767	10.057	AV
5			5.526	48.783	38.700	-11.217	60.000	10.083	QP
6		*	5.526	40.683	30.600	-9.317	50.000	10.083	AV
7			6.642	45.663	35.500	-14.337	60.000	10.163	QP
8			6.642	38.563	28.400	-11.437	50.000	10.163	AV
9			8.246	44.279	34.100	-15.721	60.000	10.179	QP
10			8.246	36.979	26.800	-13.021	50.000	10.179	AV
11			10.518	41.546	31.400	-18.454	60.000	10.146	QP
12			10.518	33.546	23.400	-16.454	50.000	10.146	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 **FCC ID: 2AD6M-X30** is in compliance with Part 15E of the FCC Rules.

The End