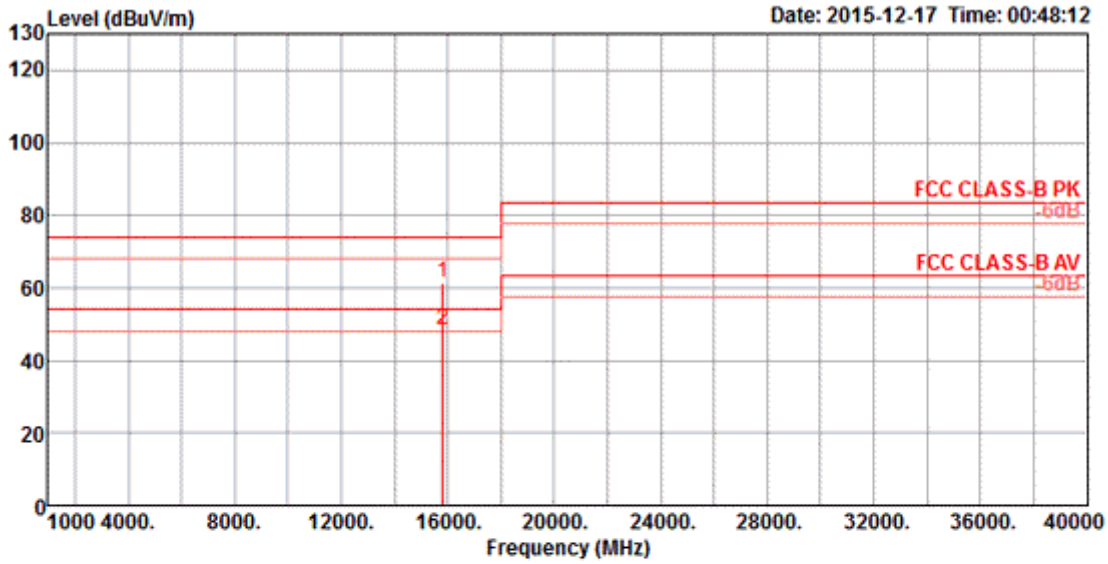
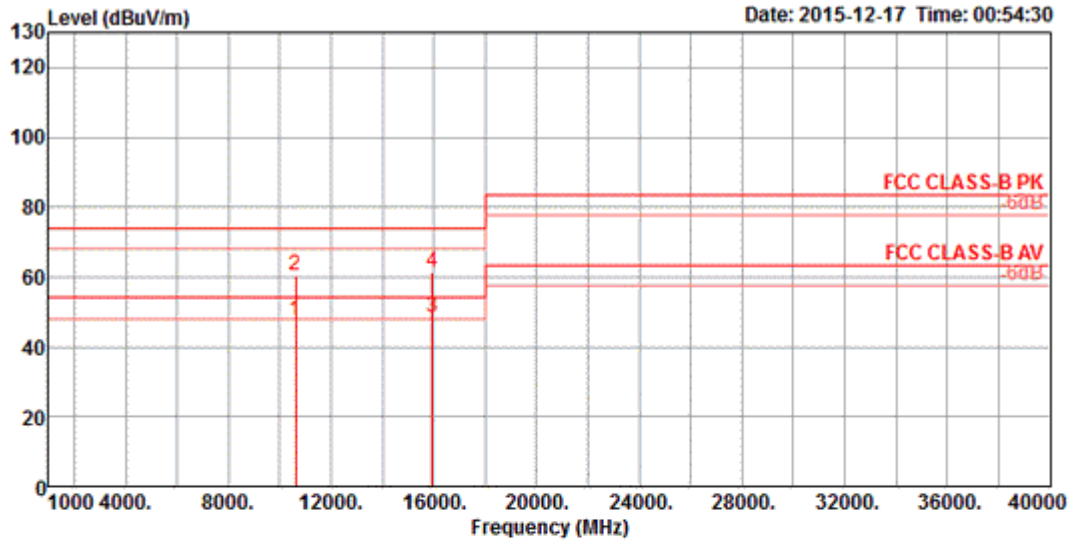
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	15810.32	61.46	74.00	-12.54	45.63	13.30	35.39	37.92	VERTICAL	215	111	Peak
2	15810.74	48.25	54.00	-5.75	32.42	13.30	35.39	37.92	VERTICAL	215	111	Average

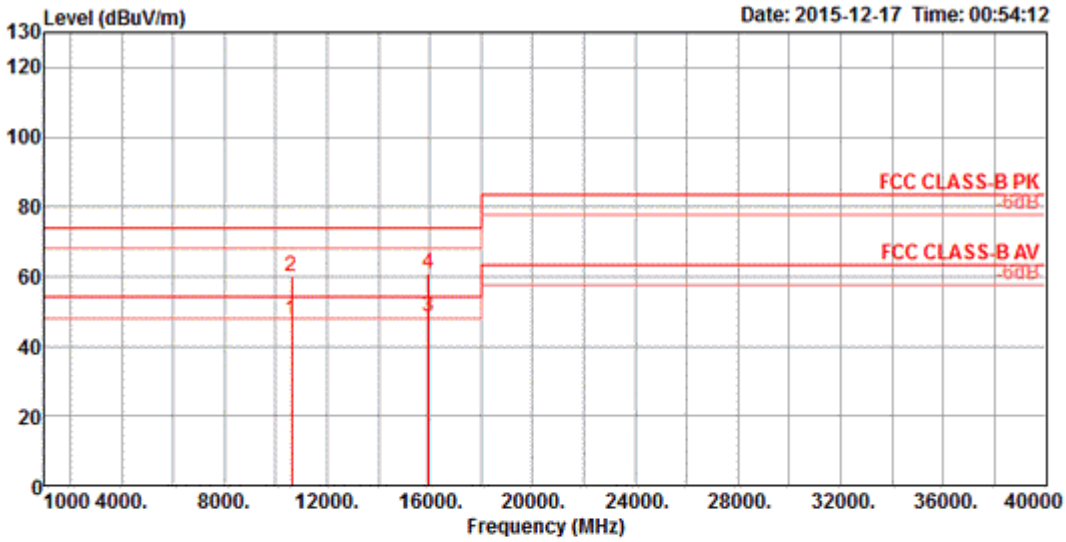
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	10619.23	47.40	54.00	-6.60	31.19	11.30	34.97	39.88	HORIZONTAL	211	114	Average
2	10620.94	60.42	74.00	-13.58	44.21	11.30	34.97	39.88	HORIZONTAL	211	114	Peak
3	15930.54	48.43	54.00	-5.57	32.74	13.35	35.41	37.75	HORIZONTAL	201	117	Average
4	15930.93	61.25	74.00	-12.75	45.56	13.35	35.41	37.75	HORIZONTAL	201	117	Peak

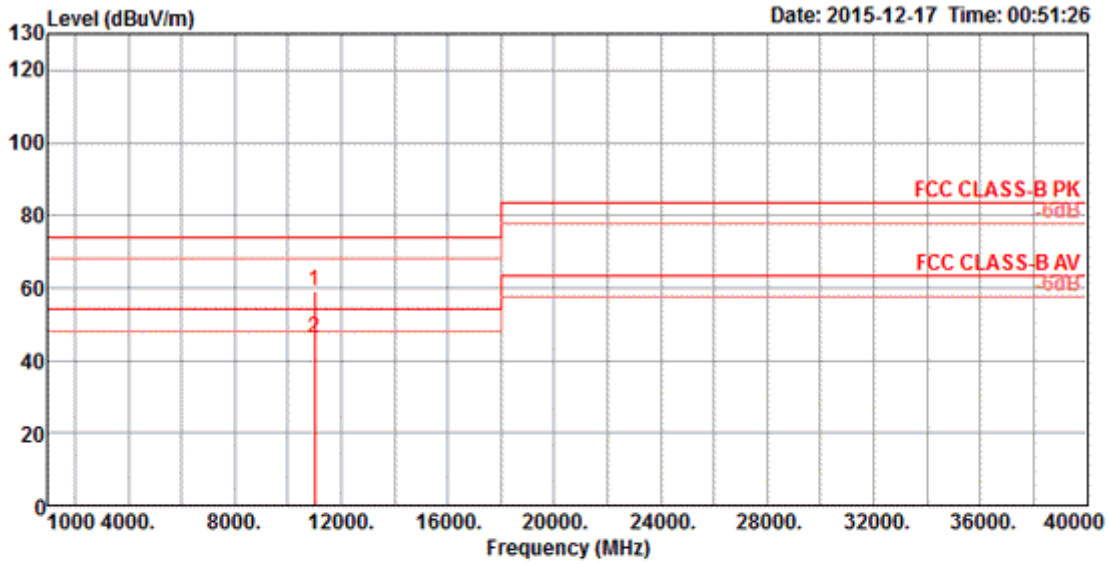
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	10619.25	47.62	54.00	-6.38	31.41	11.30	34.97	39.88	VERTICAL	214	110	Average
2	10619.33	60.16	74.00	-13.84	43.95	11.30	34.97	39.88	VERTICAL	214	110	Peak
3	15929.36	48.54	54.00	-5.46	32.85	13.35	35.41	37.75	VERTICAL	202	116	Average
4	15930.18	61.00	74.00	-13.00	45.31	13.35	35.41	37.75	VERTICAL	202	116	Peak

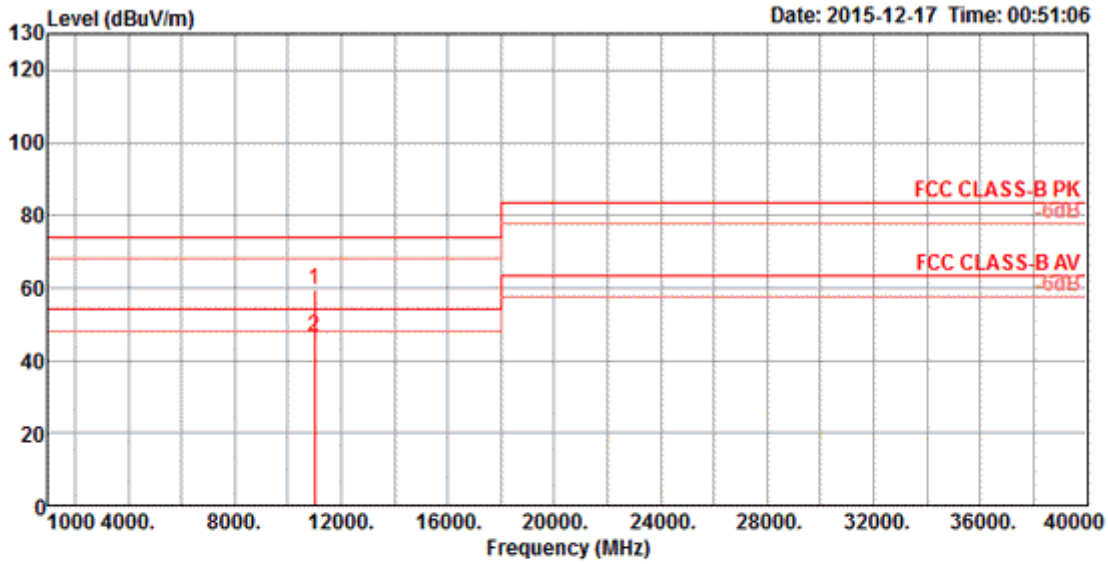
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11020.32	59.04	74.00	-14.96	42.51	11.50	35.17	40.20	HORIZONTAL	203	116	Peak
2	11020.74	46.18	54.00	-7.82	29.65	11.50	35.17	40.20	HORIZONTAL	203	116	Average

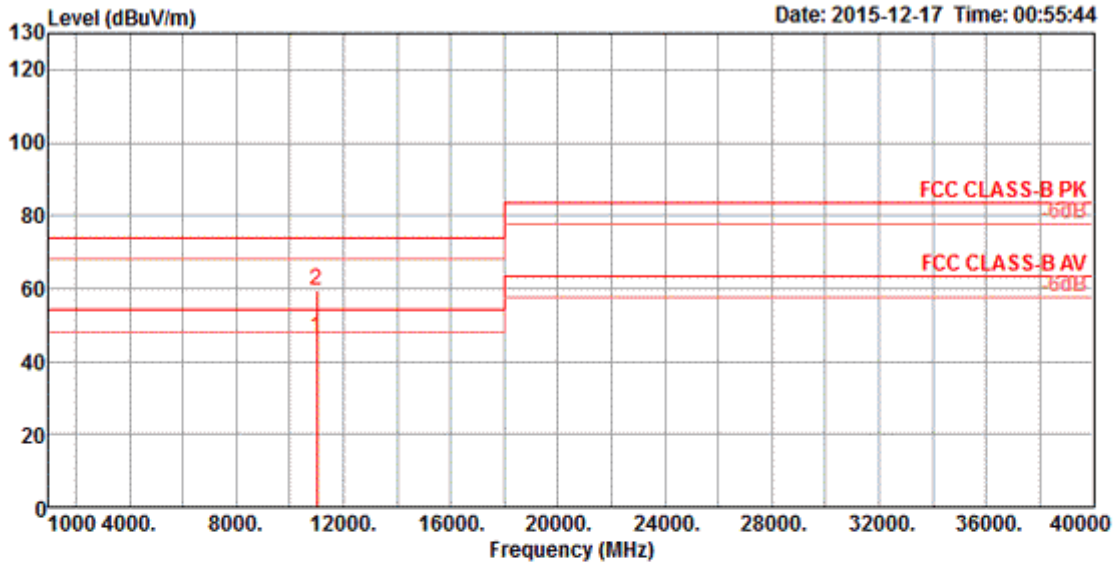
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11019.28	59.65	74.00	-14.35	43.12	11.50	35.17	40.20	VERTICAL	205	118	Peak
2	11020.98	46.37	54.00	-7.63	29.84	11.50	35.17	40.20	VERTICAL	205	118	Average

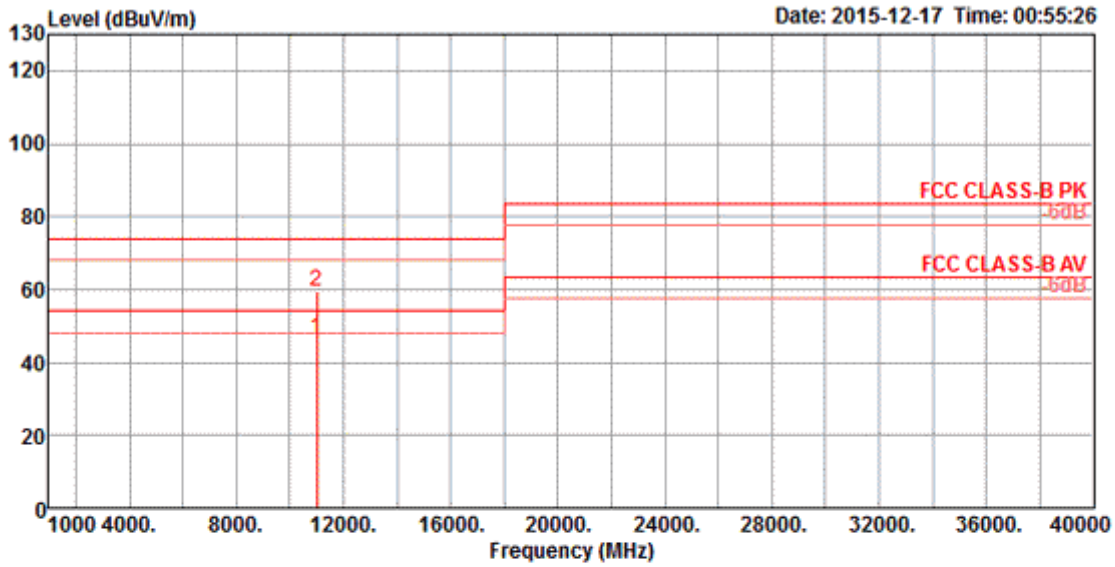
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	10999.02	46.36	54.00	-7.64	29.83	11.50	35.17	40.20	HORIZONTAL	195	112	Average
2	11000.63	59.49	74.00	-14.51	42.96	11.50	35.17	40.20	HORIZONTAL	195	112	Peak

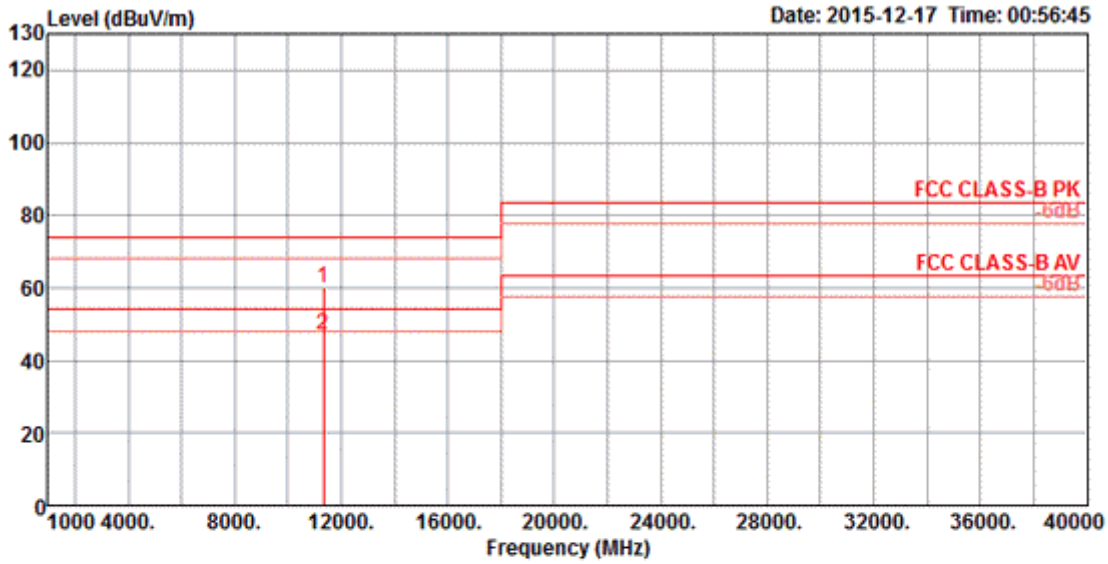
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	10999.28	46.46	54.00	-7.54	29.93	11.50	35.17	40.20	VERTICAL	198	114	Average
2	10999.55	59.71	74.00	-14.29	43.18	11.50	35.17	40.20	VERTICAL	198	114	Peak

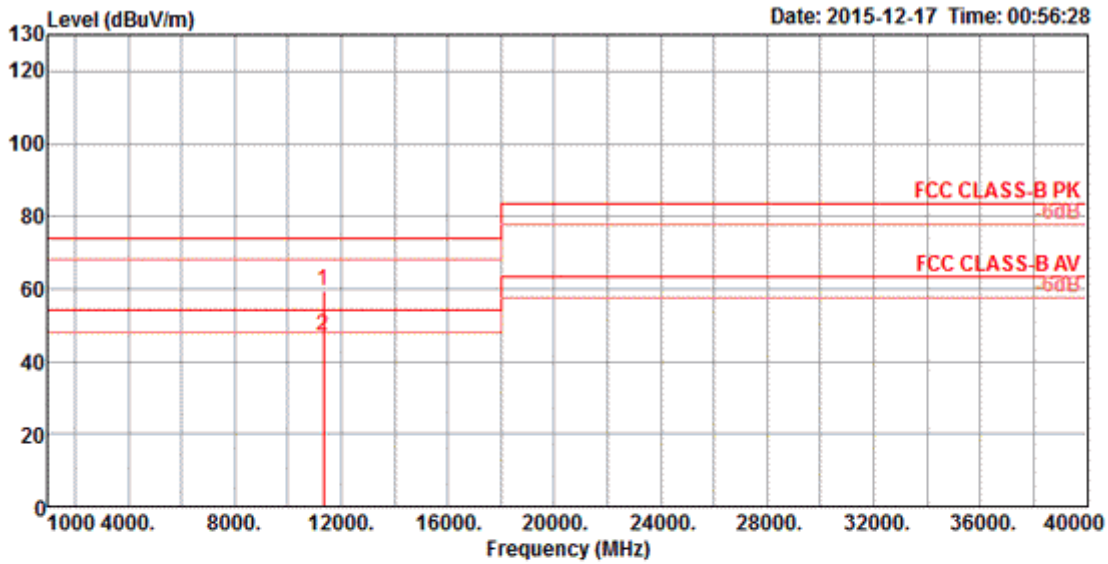
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11340.18	60.01	74.00	-13.99	43.50	11.65	35.21	40.07	HORIZONTAL	186	106	Peak
2	11340.37	46.81	54.00	-7.19	30.30	11.65	35.21	40.07	HORIZONTAL	186	106	Average

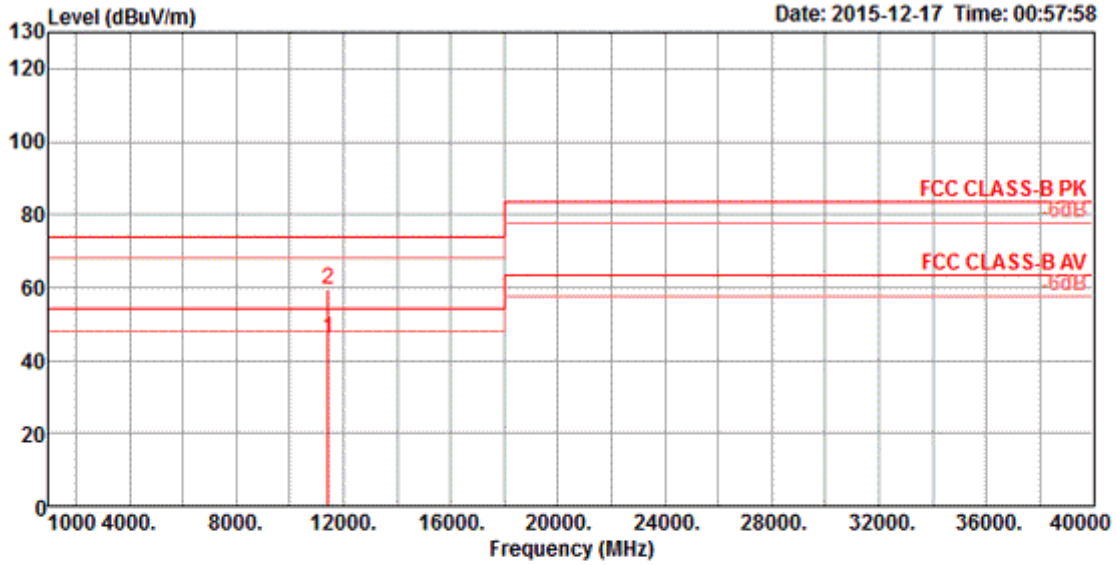
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11339.74	59.71	74.00	-14.29	43.20	11.65	35.21	40.07	VERTICAL	193	110	Peak
2	11339.97	47.13	54.00	-6.87	30.62	11.65	35.21	40.07	VERTICAL	193	110	Average

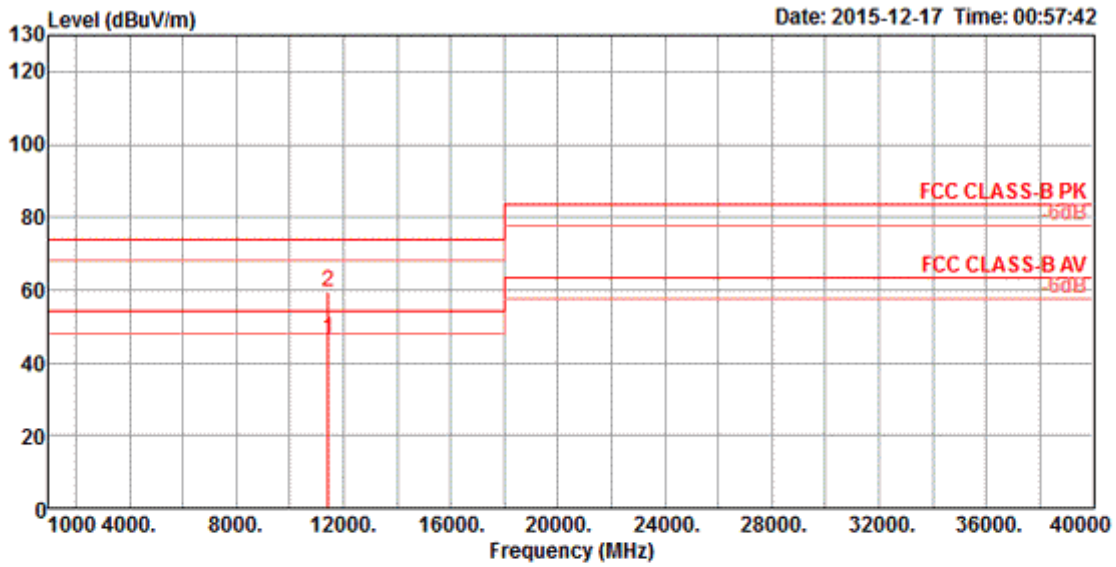
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11420.44	46.23	54.00	-7.77	29.73	11.69	35.22	40.03	HORIZONTAL	178	101	Average
2	11420.86	59.26	74.00	-14.74	42.76	11.69	35.22	40.03	HORIZONTAL	178	101	Peak

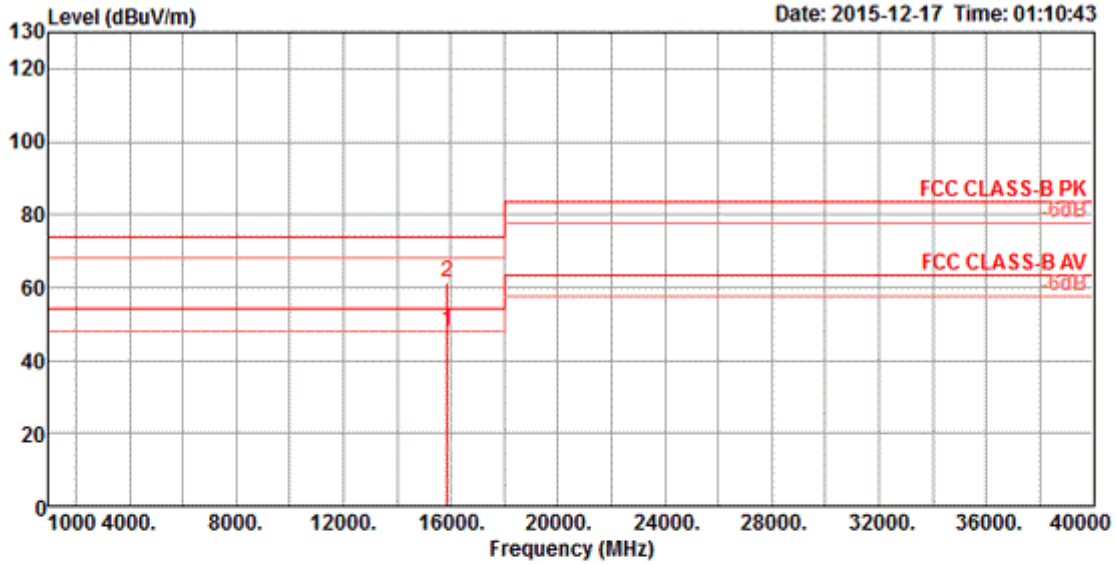
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11420.42	46.44	54.00	-7.56	29.94	11.69	35.22	40.03	VERTICAL	180	103	Average
2	11420.62	59.31	74.00	-14.69	42.81	11.69	35.22	40.03	VERTICAL	180	103	Peak

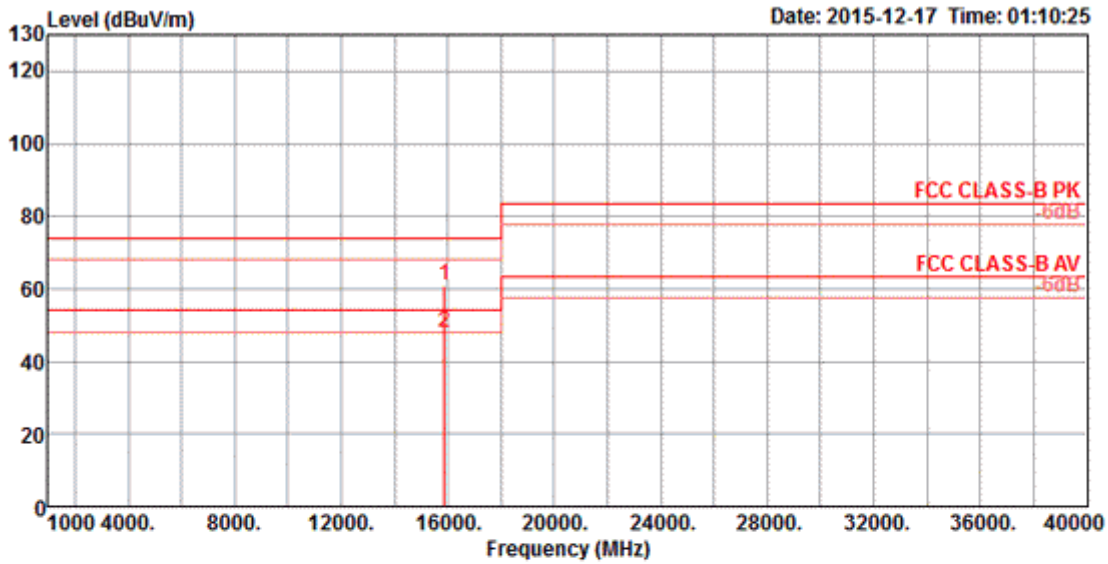
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	15870.04	47.97	54.00	-6.03	32.19	13.32	35.40	37.86	HORIZONTAL	156	102	Average
2	15870.18	61.60	74.00	-12.40	45.82	13.32	35.40	37.86	HORIZONTAL	156	102	Peak

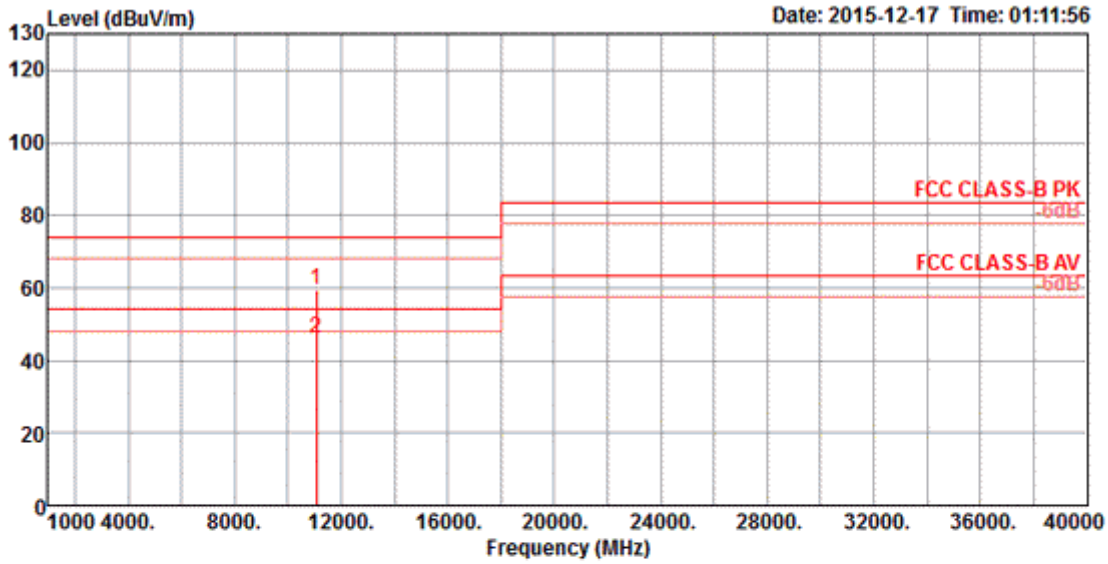
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	15869.06	60.68	74.00	-13.32	44.90	13.32	35.40	37.86	VERTICAL	158	103	Peak
2	15869.95	48.07	54.00	-5.93	32.29	13.32	35.40	37.86	VERTICAL	158	103	Average

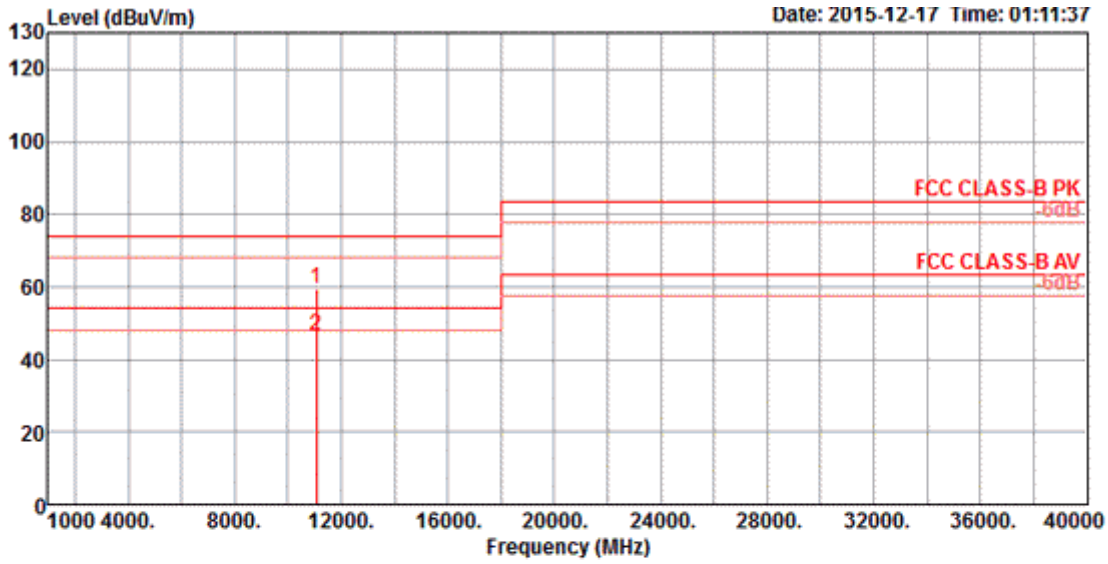
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11059.61	59.64	74.00	-14.36	43.11	11.51	35.17	40.19	HORIZONTAL	155	106	Peak
2	11060.44	46.27	54.00	-7.73	29.74	11.53	35.17	40.17	HORIZONTAL	155	106	Average

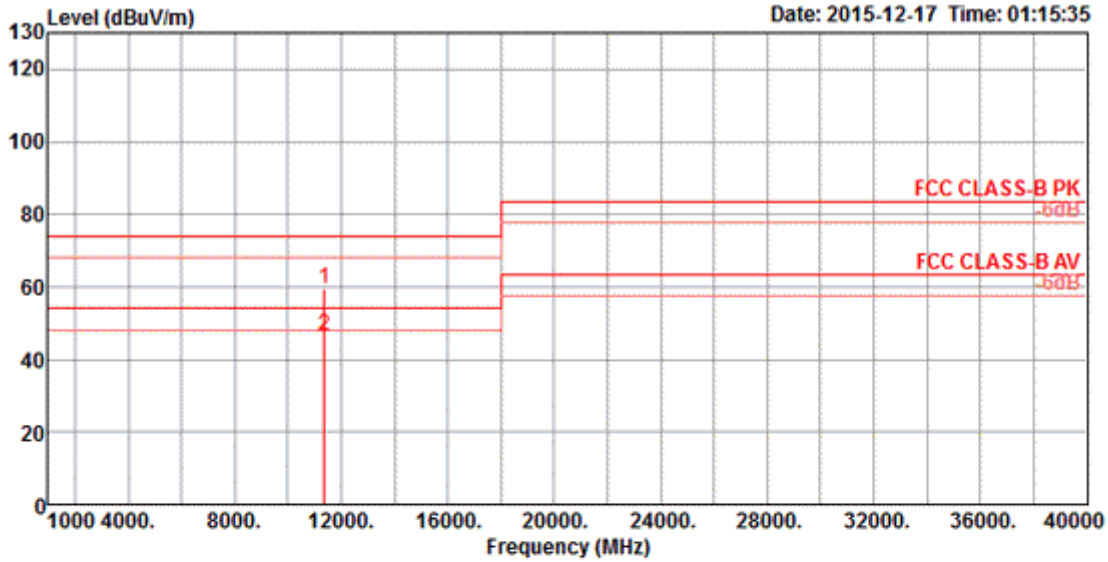
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11059.66	59.41	74.00	-14.59	42.88	11.51	35.17	40.19	VERTICAL	158	101	Peak
2	11060.58	46.42	54.00	-7.58	29.89	11.53	35.17	40.17	VERTICAL	158	101	Average

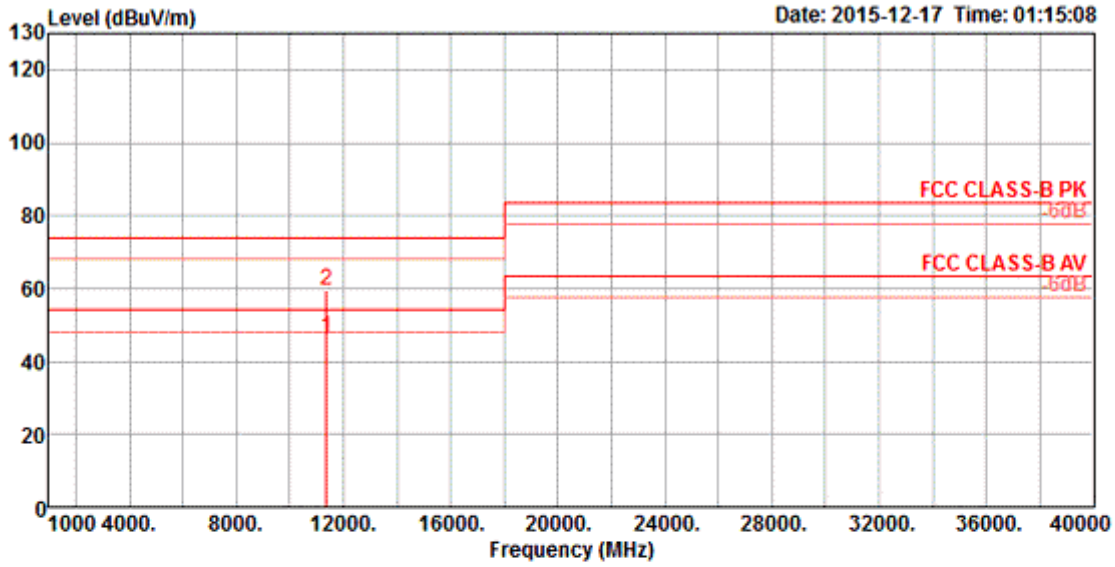
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11379.94	59.49	74.00	-14.51	43.00	11.66	35.22	40.05	HORIZONTAL	143	109	Peak
2	11380.17	46.64	54.00	-7.36	30.15	11.66	35.22	40.05	HORIZONTAL	143	109	Average

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	11379.04	46.62	54.00	-7.38	30.13	11.66	35.22	40.05	VERTICAL	147	112	Average
2	11380.55	59.25	74.00	-14.75	42.76	11.66	35.22	40.05	VERTICAL	147	112	Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

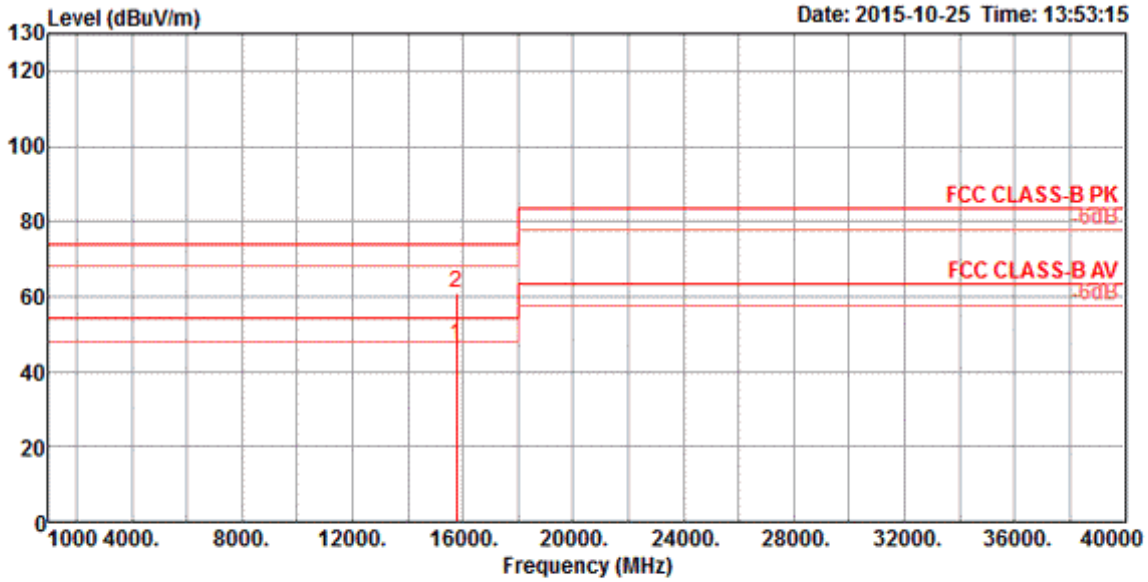
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

<For 2TX>

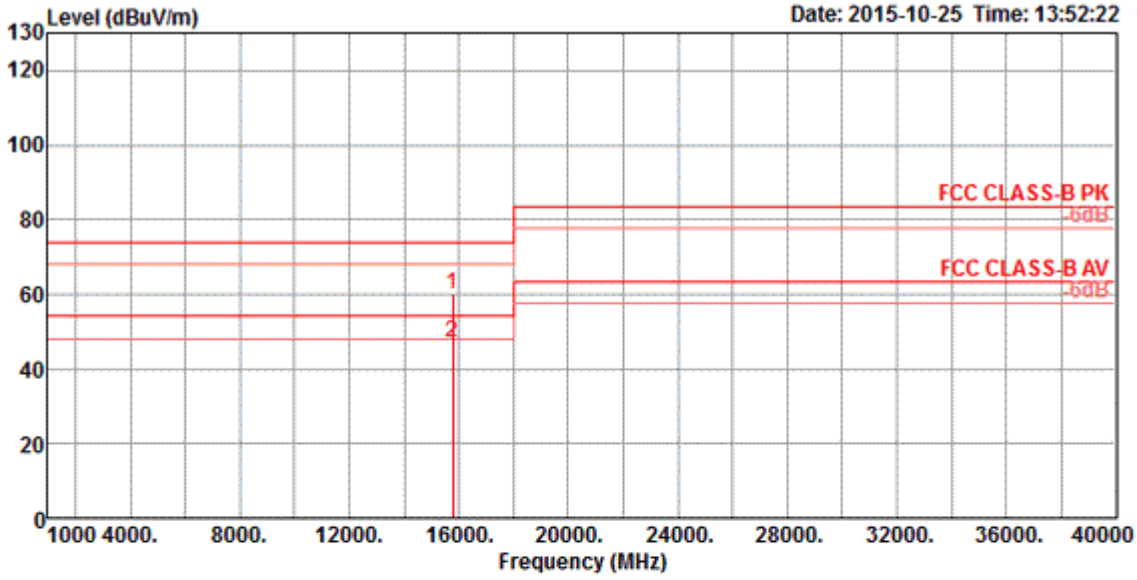
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15779.06	46.88	54.00	-7.12	30.97	13.28	35.39	38.02	HORIZONTAL	147	195	Average
2	15779.40	60.72	74.00	-13.28	44.81	13.28	35.39	38.02	HORIZONTAL	147	195	Peak

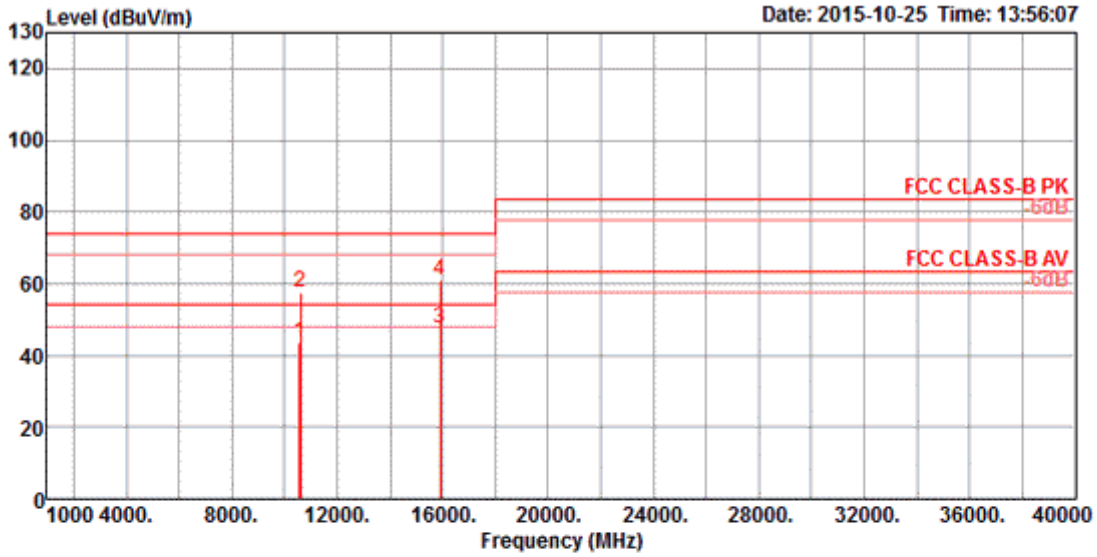
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15782.36	60.17	74.00	-13.83	44.33	13.28	35.39	37.95	VERTICAL	132	116	Peak
2	15784.10	46.84	54.00	-7.16	31.00	13.28	35.39	37.95	VERTICAL	132	116	Average

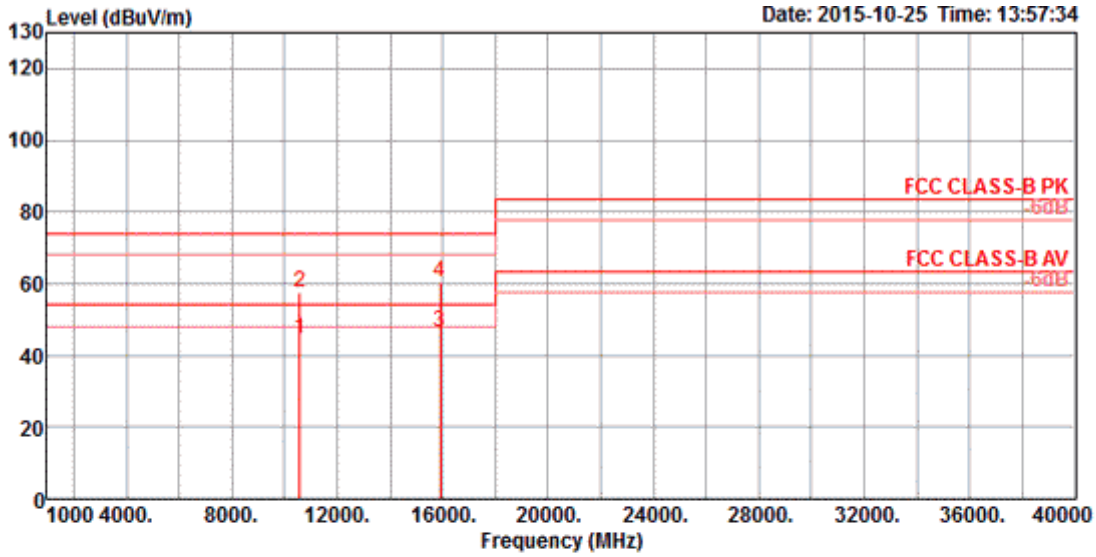
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10595.52	43.74	54.00	-10.26	27.42	11.32	34.96	39.96	HORIZONTAL	159	339	Average
2	10602.98	57.45	74.00	-16.55	41.13	11.32	34.96	39.96	HORIZONTAL	159	339	Peak
3	15900.48	47.63	54.00	-6.37	31.87	13.33	35.40	37.83	HORIZONTAL	167	348	Average
4	15903.88	61.02	74.00	-12.98	45.26	13.33	35.40	37.83	HORIZONTAL	167	348	Peak

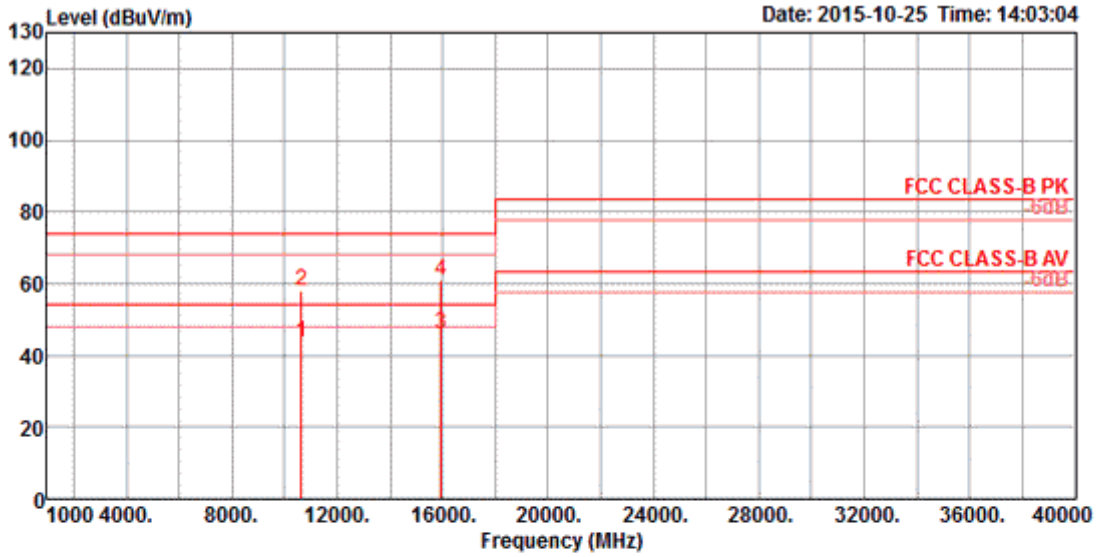
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10595.66	44.60	54.00	-9.40	28.28	11.32	34.96	39.96	VERTICAL	205	178	Average
2	10597.98	57.57	74.00	-16.43	41.25	11.32	34.96	39.96	VERTICAL	205	178	Peak
3	15897.48	46.60	54.00	-7.40	30.84	13.33	35.40	37.83	VERTICAL	182	253	Average
4	15902.00	60.38	74.00	-13.62	44.62	13.33	35.40	37.83	VERTICAL	182	253	Peak

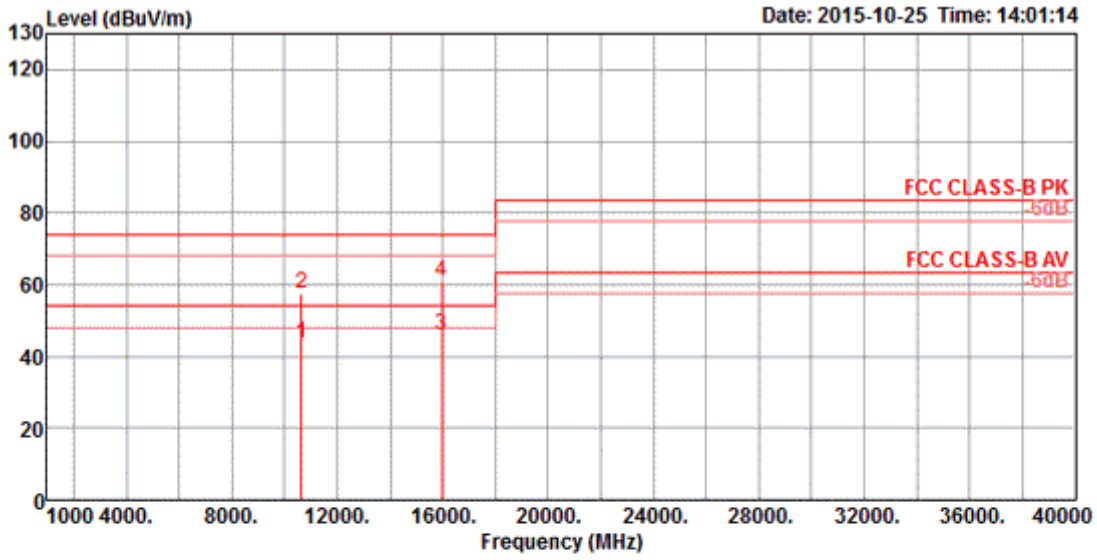
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10639.72	43.51	54.00	-10.49	27.21	11.31	34.99	39.98	HORIZONTAL	135	97	Average
2	10643.68	58.12	74.00	-15.88	41.82	11.31	34.99	39.98	HORIZONTAL	135	97	Peak
3	15955.28	46.23	54.00	-7.77	30.53	13.35	35.41	37.76	HORIZONTAL	145	117	Average
4	15955.30	60.85	74.00	-13.15	45.15	13.35	35.41	37.76	HORIZONTAL	145	117	Peak

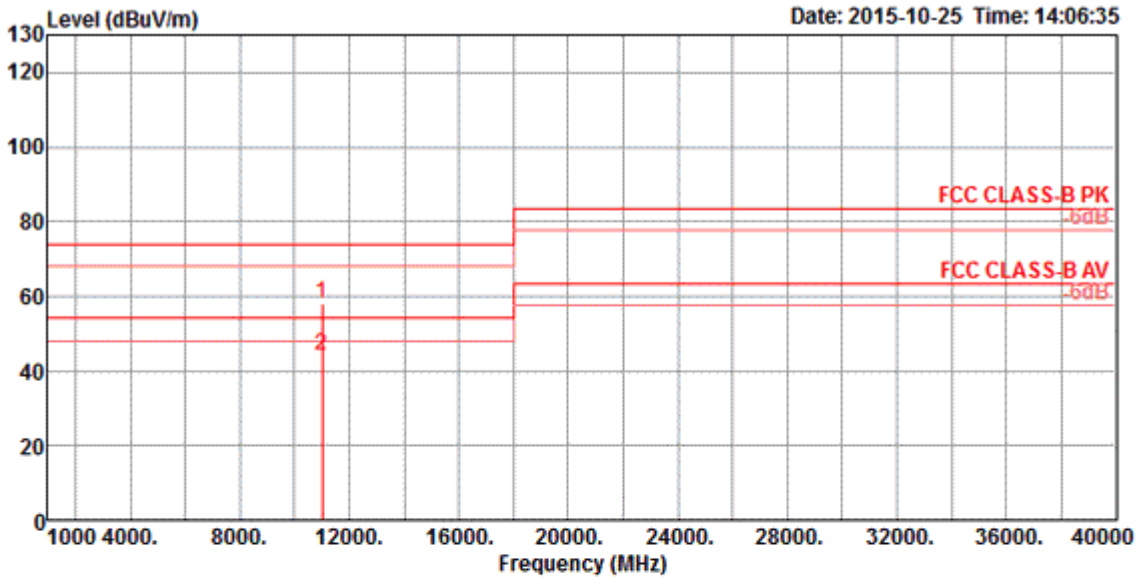
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10639.88	43.48	54.00	-10.52	27.18	11.31	34.99	39.98	VERTICAL	171	158	Average
2	10643.94	57.66	74.00	-16.34	41.36	11.31	34.99	39.98	VERTICAL	171	158	Peak
3	15958.38	46.26	54.00	-7.74	30.56	13.35	35.41	37.76	VERTICAL	153	141	Average
4	15959.06	60.68	74.00	-13.32	44.98	13.35	35.41	37.76	VERTICAL	153	141	Peak

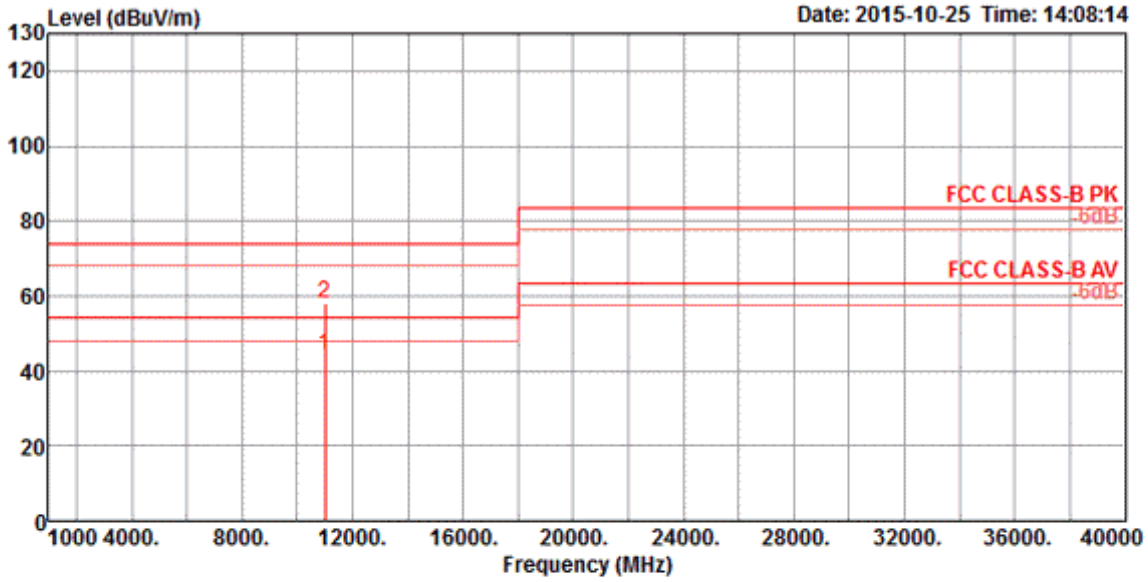
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11000.12	57.87	74.00	-16.13	41.60	11.24	35.17	40.20	HORIZONTAL	152	33	Peak
2	11000.44	44.32	54.00	-9.68	28.05	11.24	35.17	40.20	HORIZONTAL	152	33	Average

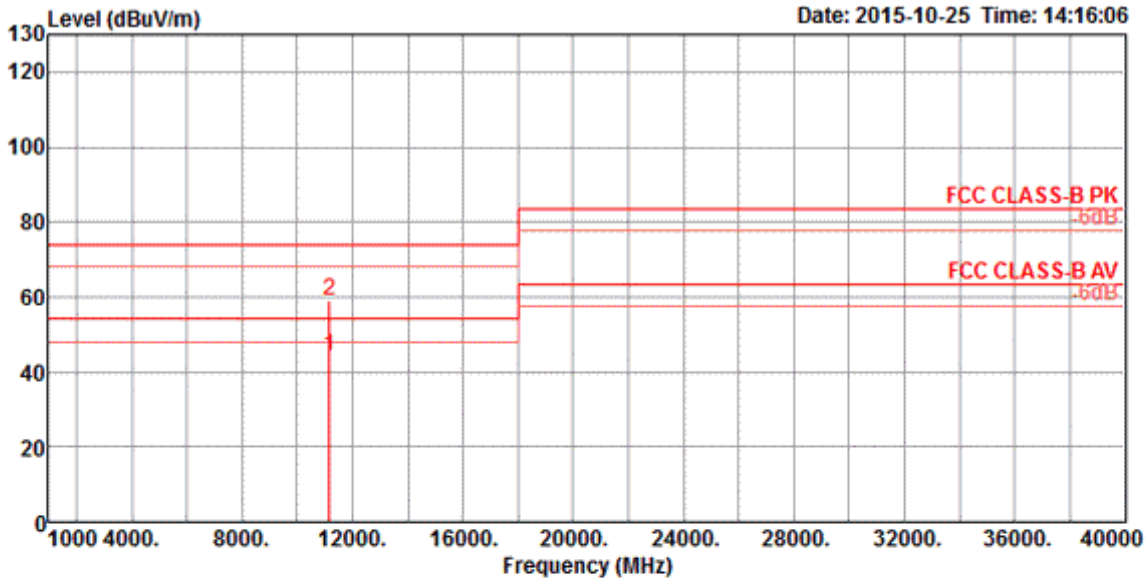
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11003.38	44.35	54.00	-9.65	28.07	11.25	35.17	40.20	VERTICAL	165	126	Average
2	11003.74	58.05	74.00	-15.95	41.77	11.25	35.17	40.20	VERTICAL	165	126	Peak

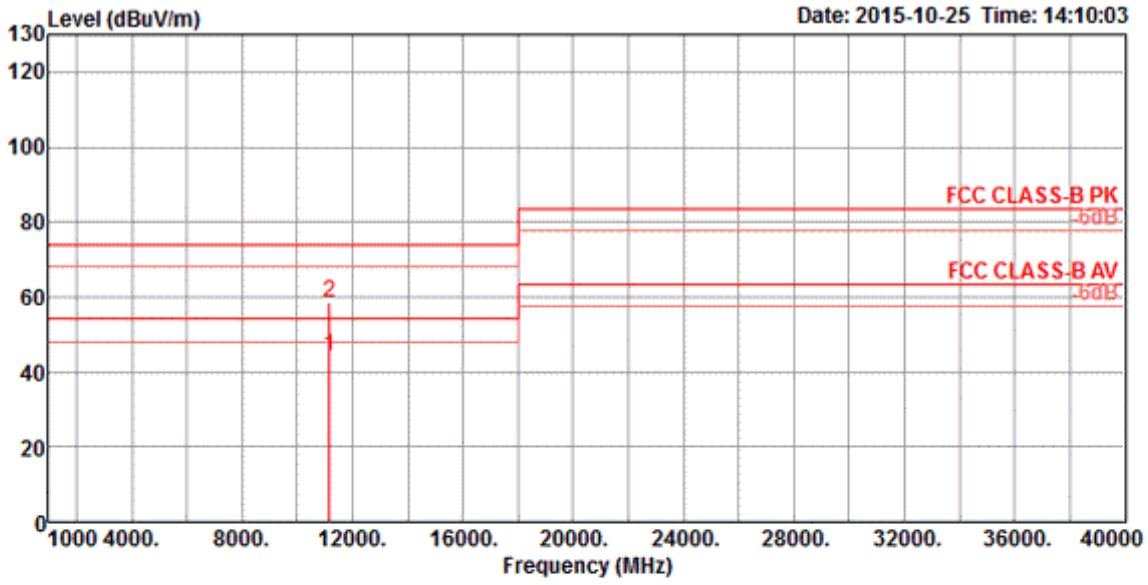
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11156.38	44.26	54.00	-9.74	28.02	11.31	35.19	40.12	HORIZONTAL	188	187	Average
2	11163.34	59.13	74.00	-14.87	42.90	11.32	35.19	40.10	HORIZONTAL	188	187	Peak

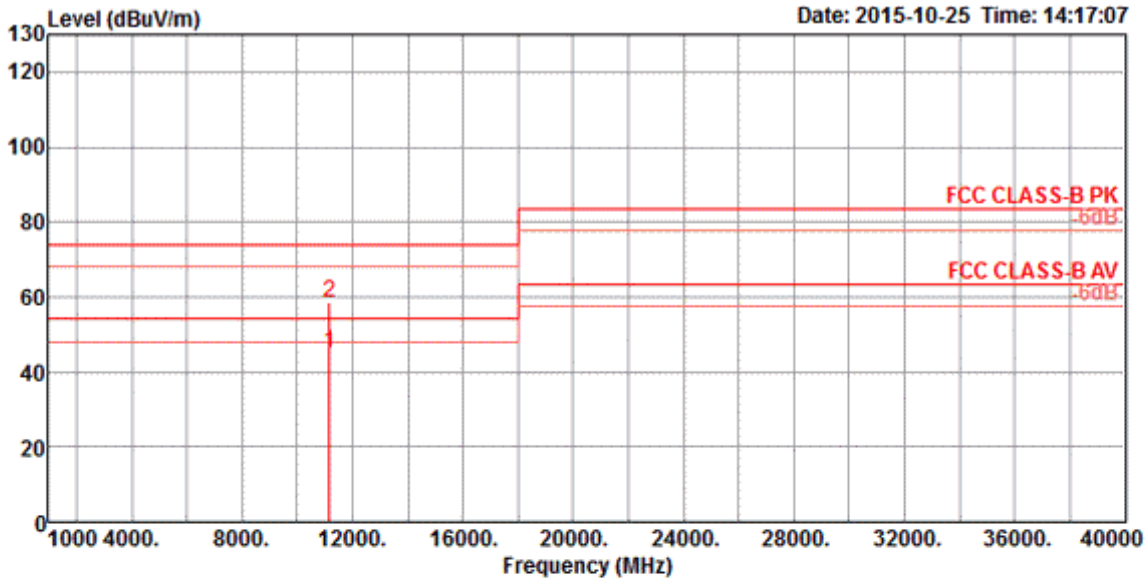
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11155.96	44.27	54.00	-9.73	28.03	11.31	35.19	40.12	VERTICAL	174	153	Average
2	11162.48	58.29	74.00	-15.71	42.06	11.32	35.19	40.10	VERTICAL	174	153	Peak

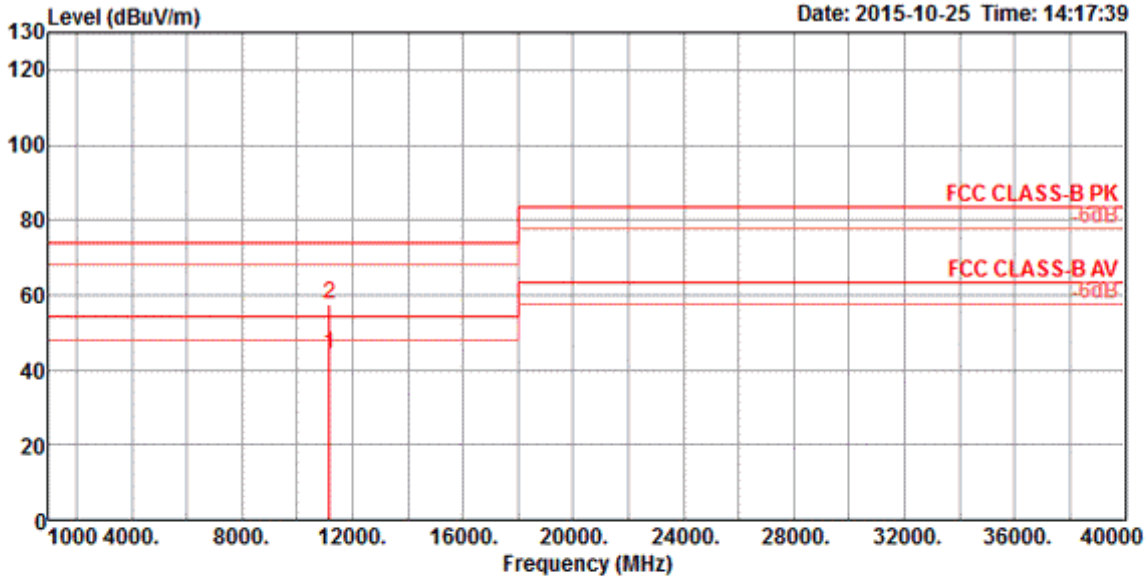
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11161.72	45.22	54.00	-8.78	29.00	11.31	35.19	40.10	HORIZONTAL	173	223	Average
2	11163.98	58.69	74.00	-15.31	42.46	11.32	35.19	40.10	HORIZONTAL	173	223	Peak

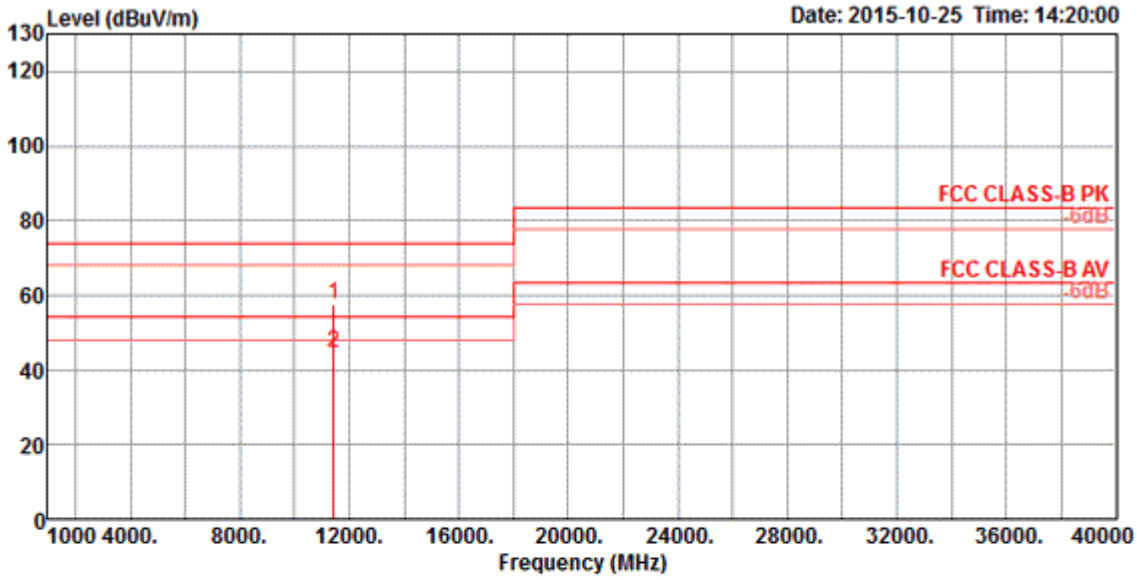
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11156.30	44.24	54.00	-9.76	28.00	11.31	35.19	40.12	VERTICAL	150	250	Average
2	11160.86	57.57	74.00	-16.43	41.35	11.31	35.19	40.10	VERTICAL	150	250	Peak

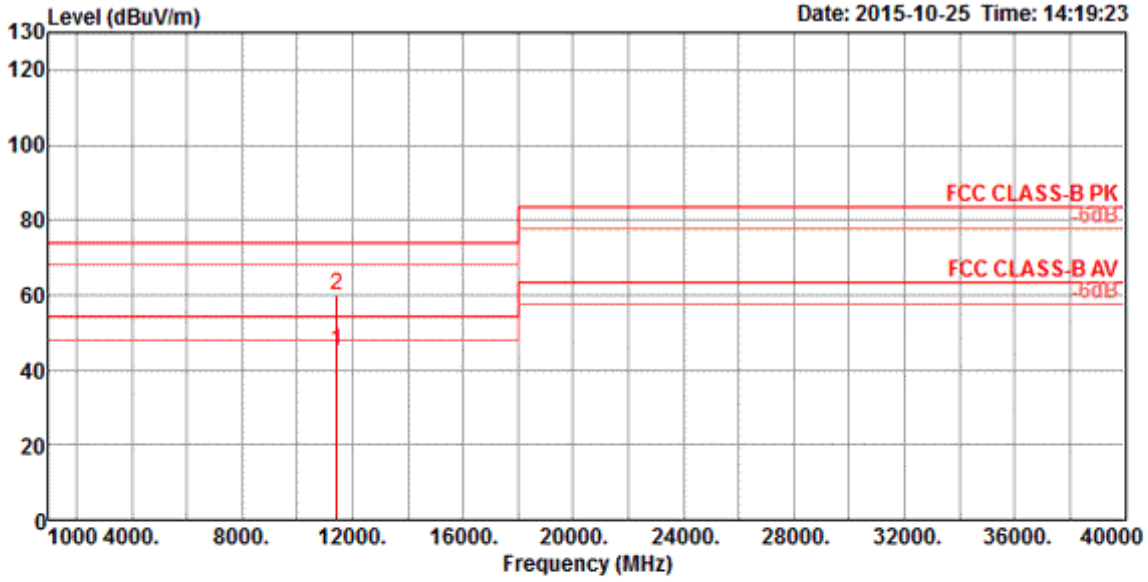
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11436.52	57.75	74.00	-16.25	41.59	11.45	35.23	39.94	HORIZONTAL	155	320	Peak
2	11442.76	44.46	54.00	-9.54	28.30	11.45	35.23	39.94	HORIZONTAL	155	320	Average

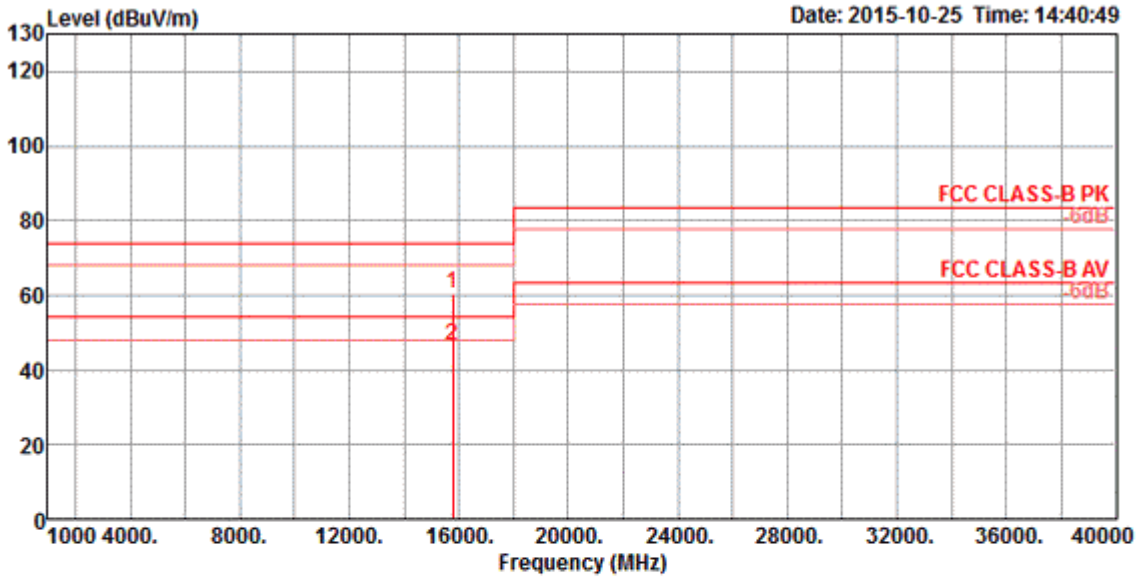
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11440.06	45.08	54.00	-8.92	28.92	11.45	35.23	39.94	VERTICAL	131	284	Average
2	11440.20	59.85	74.00	-14.15	43.69	11.45	35.23	39.94	VERTICAL	131	284	Peak

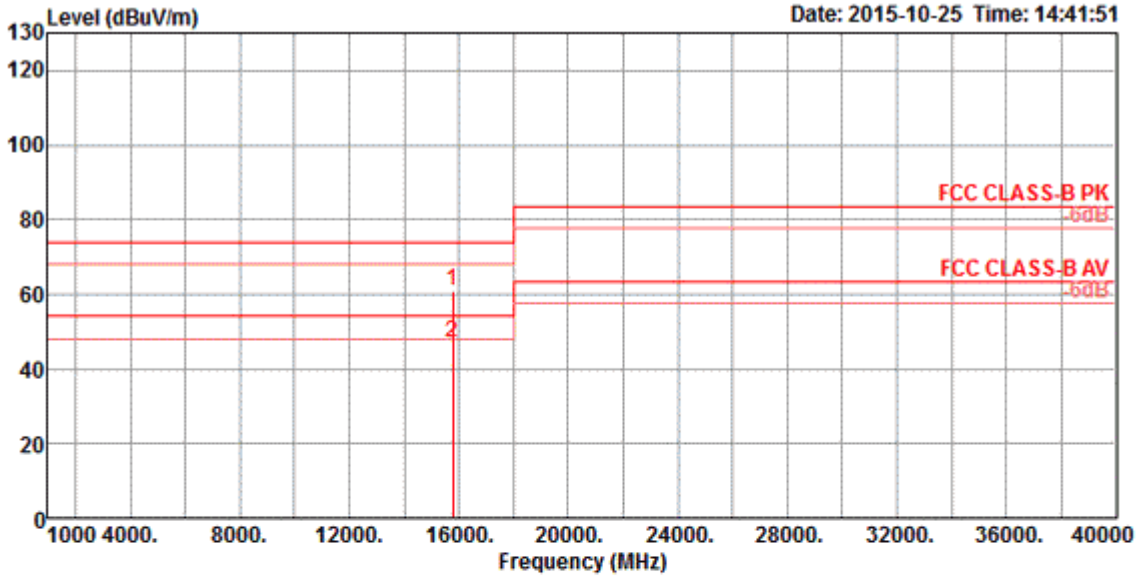
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15779.40	60.64	74.00	-13.36	44.73	13.28	35.39	38.02	HORIZONTAL	164	311	Peak
2	15780.68	46.77	54.00	-7.23	30.86	13.28	35.39	38.02	HORIZONTAL	164	311	Average

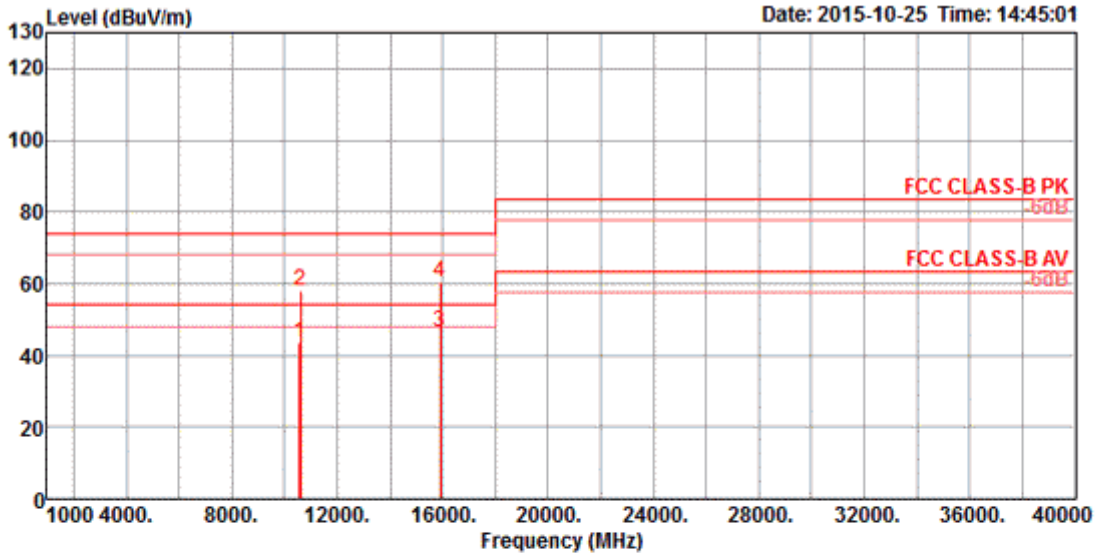
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15778.22	60.98	74.00	-13.02	45.07	13.28	35.39	38.02	VERTICAL	140	280	Peak
2	15784.82	46.78	54.00	-7.22	30.94	13.28	35.39	37.95	VERTICAL	140	280	Average

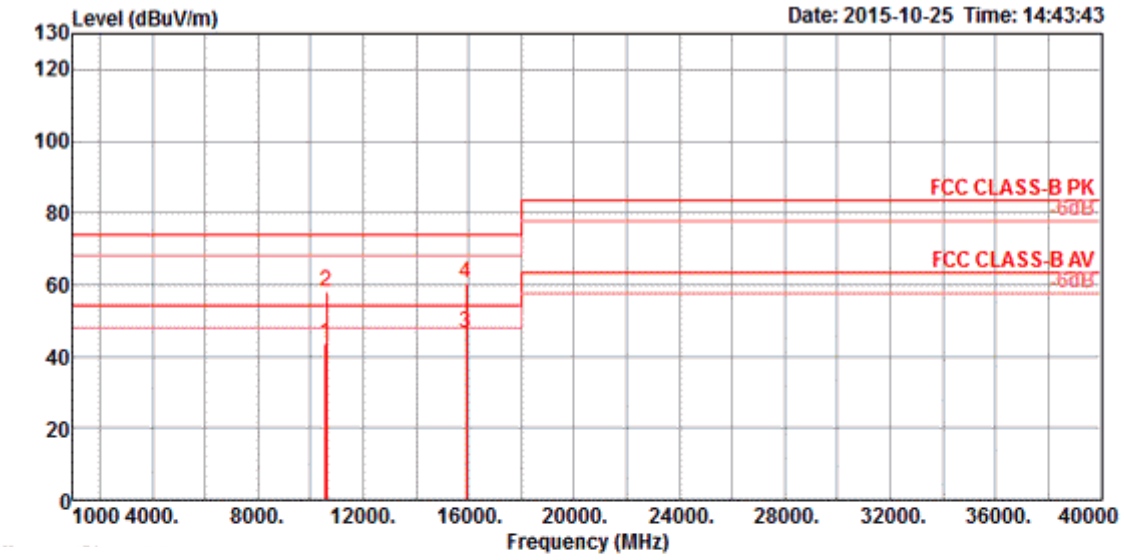
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10595.32	43.63	54.00	-10.37	27.31	11.32	34.96	39.96	HORIZONTAL	183	181	Average
2	10602.54	58.02	74.00	-15.98	41.70	11.32	34.96	39.96	HORIZONTAL	183	181	Peak
3	15897.46	46.51	54.00	-7.49	30.75	13.33	35.40	37.83	HORIZONTAL	175	206	Average
4	15901.18	60.35	74.00	-13.65	44.59	13.33	35.40	37.83	HORIZONTAL	175	206	Peak

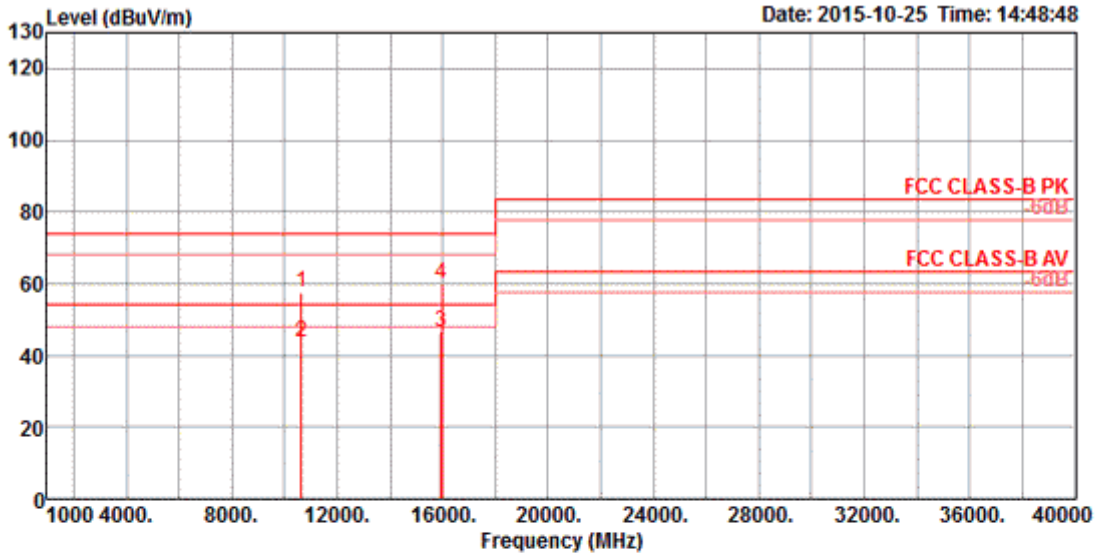
Vertical



	Freq	Level	Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10595.72	43.72	54.00	-10.28	27.40	11.32	34.96	39.96	VERTICAL	147	246	Average
2	10599.94	58.03	74.00	-15.97	41.71	11.32	34.96	39.96	VERTICAL	147	246	Peak
3	15902.96	46.57	54.00	-7.43	30.81	13.33	35.40	37.83	VERTICAL	151	248	Average
4	15904.48	60.29	74.00	-13.71	44.53	13.33	35.40	37.83	VERTICAL	151	248	Peak

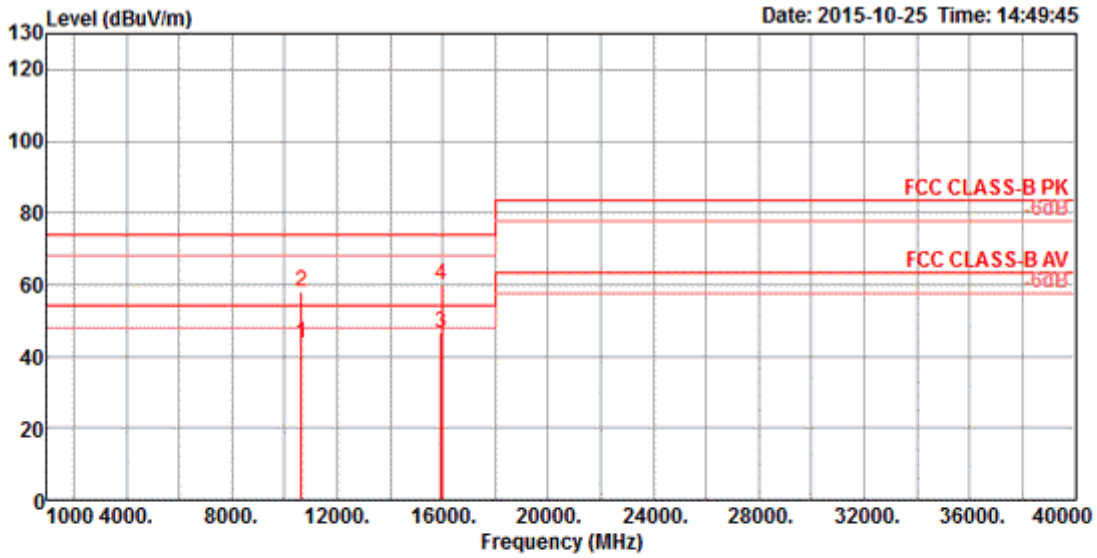
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10638.46	57.71	74.00	-16.29	41.41	11.31	34.99	39.98	HORIZONTAL	129	132	Peak
2	10639.24	43.54	54.00	-10.46	27.24	11.31	34.99	39.98	HORIZONTAL	129	132	Average
3	15955.72	46.30	54.00	-7.70	30.60	13.35	35.41	37.76	HORIZONTAL	131	112	Average
4	15962.30	59.94	74.00	-14.06	44.23	13.36	35.41	37.76	HORIZONTAL	131	112	Peak

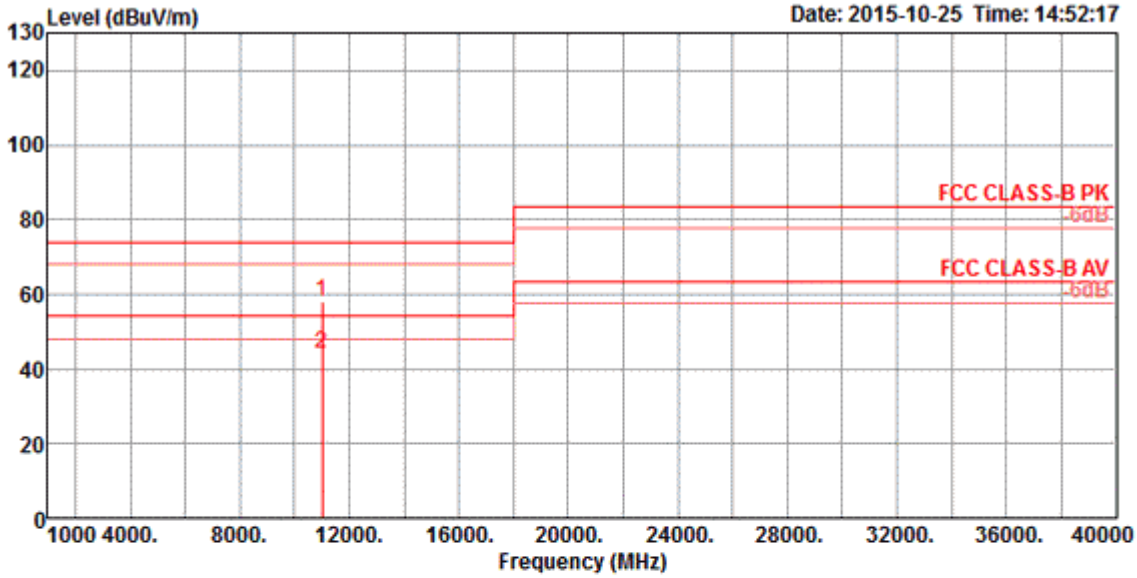
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10636.28	43.51	54.00	-10.49	27.19	11.31	34.97	39.98	VERTICAL	144	160	Average
2	10639.72	58.04	74.00	-15.96	41.74	11.31	34.99	39.98	VERTICAL	144	160	Peak
3	15955.78	46.32	54.00	-7.68	30.62	13.35	35.41	37.76	VERTICAL	138	146	Average
4	15959.58	60.04	74.00	-13.96	44.34	13.35	35.41	37.76	VERTICAL	138	146	Peak

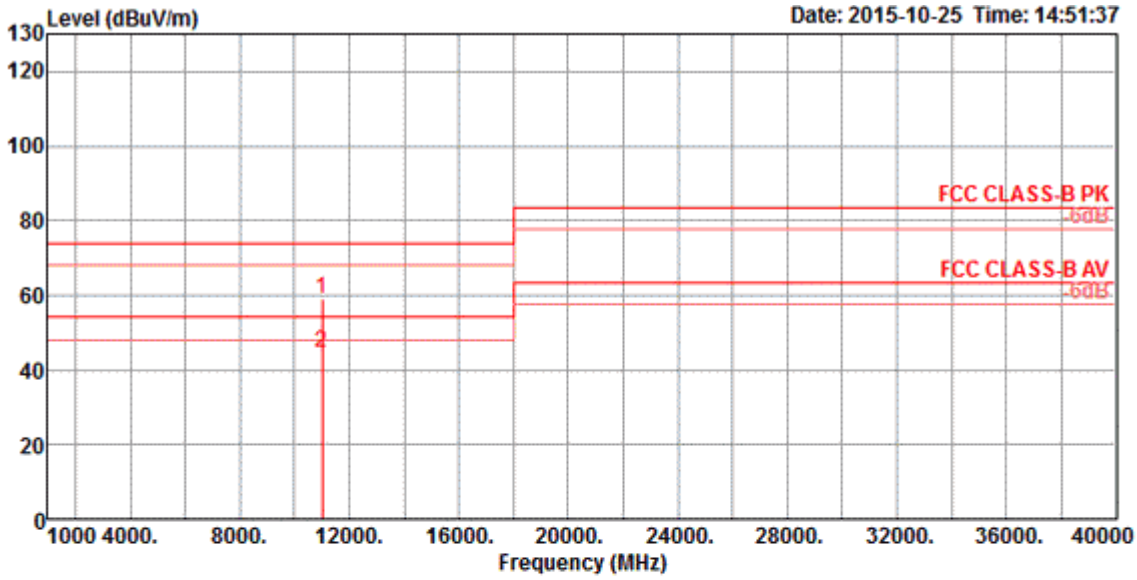
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11000.40	58.06	74.00	-15.94	41.79	11.24	35.17	40.20	HORIZONTAL	167	175	Peak
2	11003.38	44.34	54.00	-9.66	28.06	11.25	35.17	40.20	HORIZONTAL	167	175	Average

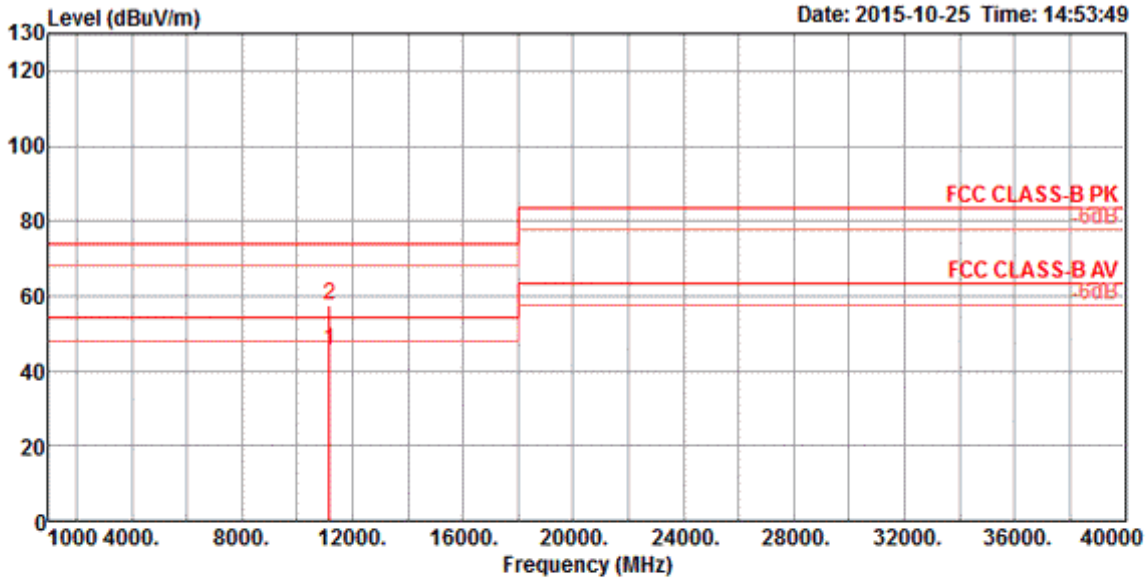
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10995.96	58.97	74.00	-15.03	42.72	11.24	35.17	40.18	VERTICAL	110	122	Peak
2	11000.50	44.58	54.00	-9.42	28.31	11.24	35.17	40.20	VERTICAL	110	122	Average

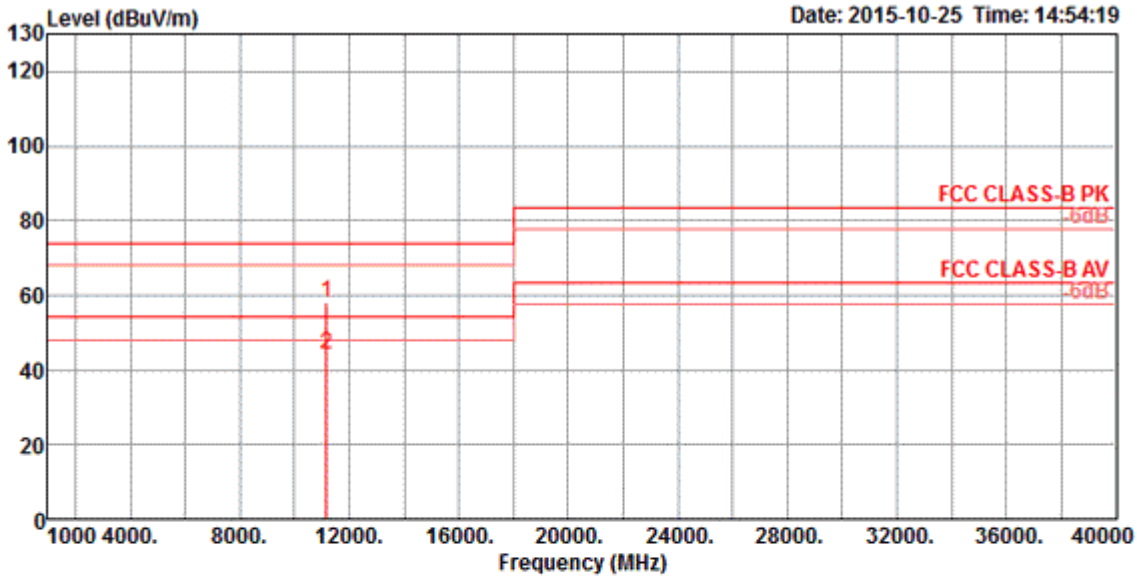
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 116 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11155.84	45.49	54.00	-8.51	29.25	11.31	35.19	40.12	HORIZONTAL	174	200	Average
2	11159.66	57.61	74.00	-16.39	41.39	11.31	35.19	40.10	HORIZONTAL	174	200	Peak

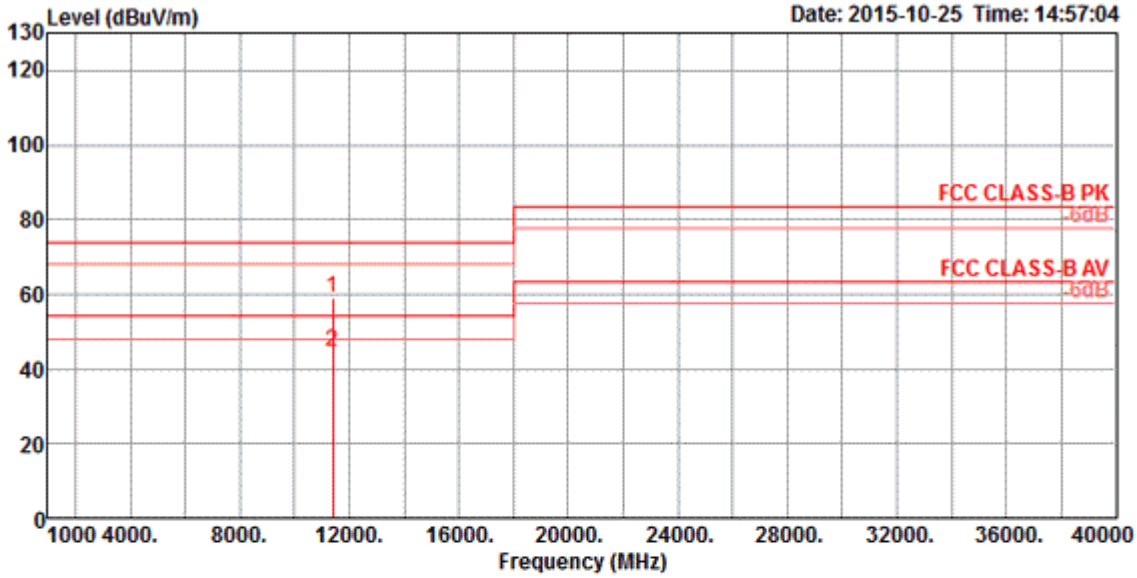
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11157.42	58.17	74.00	-15.83	41.95	11.31	35.19	40.10	VERTICAL	185	359	Peak
2	11159.10	44.18	54.00	-9.82	27.96	11.31	35.19	40.10	VERTICAL	185	331	Average

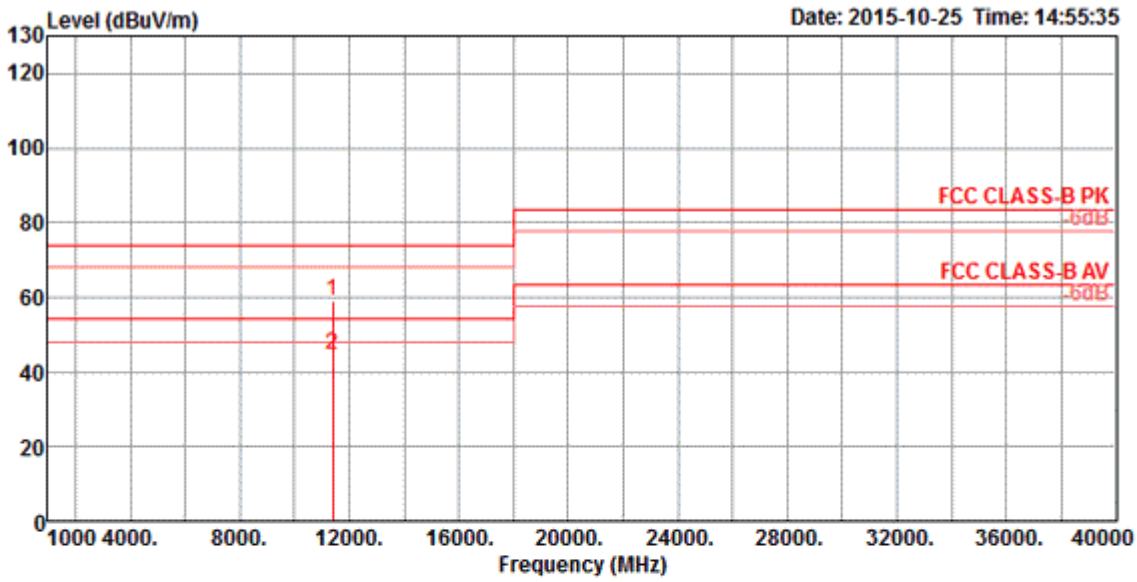
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 140 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11399.66	58.81	74.00	-15.19	42.64	11.43	35.22	39.96	HORIZONTAL	152	272	Peak
2	11401.88	44.75	54.00	-9.25	28.58	11.43	35.22	39.96	HORIZONTAL	152	272	Average

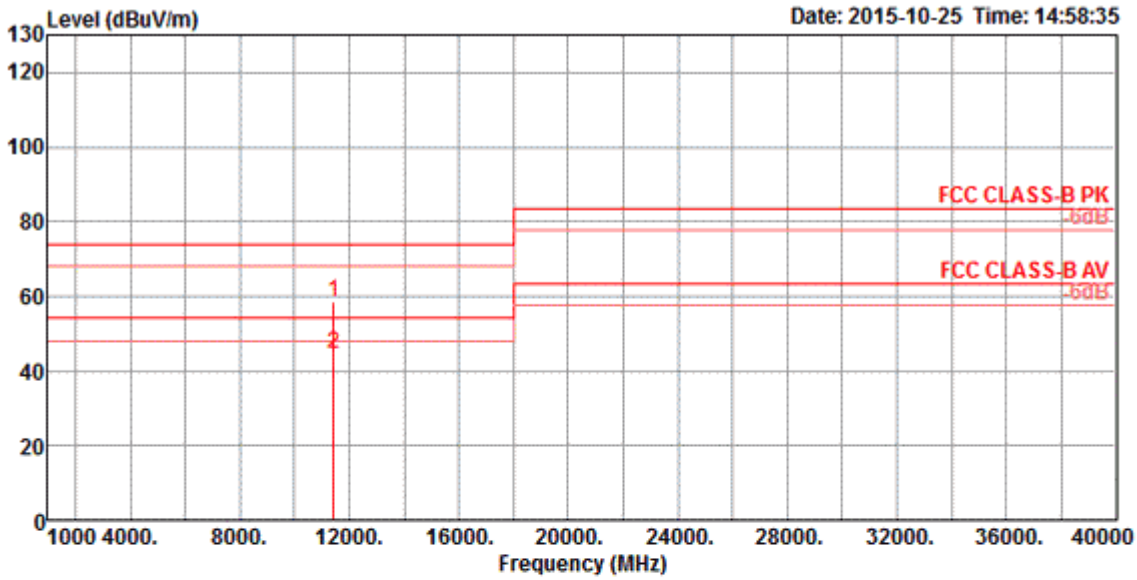
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11398.30	59.21	74.00	-14.79	43.04	11.43	35.22	39.96	VERTICAL	176	303	Peak
2	11404.42	44.74	54.00	-9.26	28.57	11.43	35.22	39.96	VERTICAL	176	303	Average

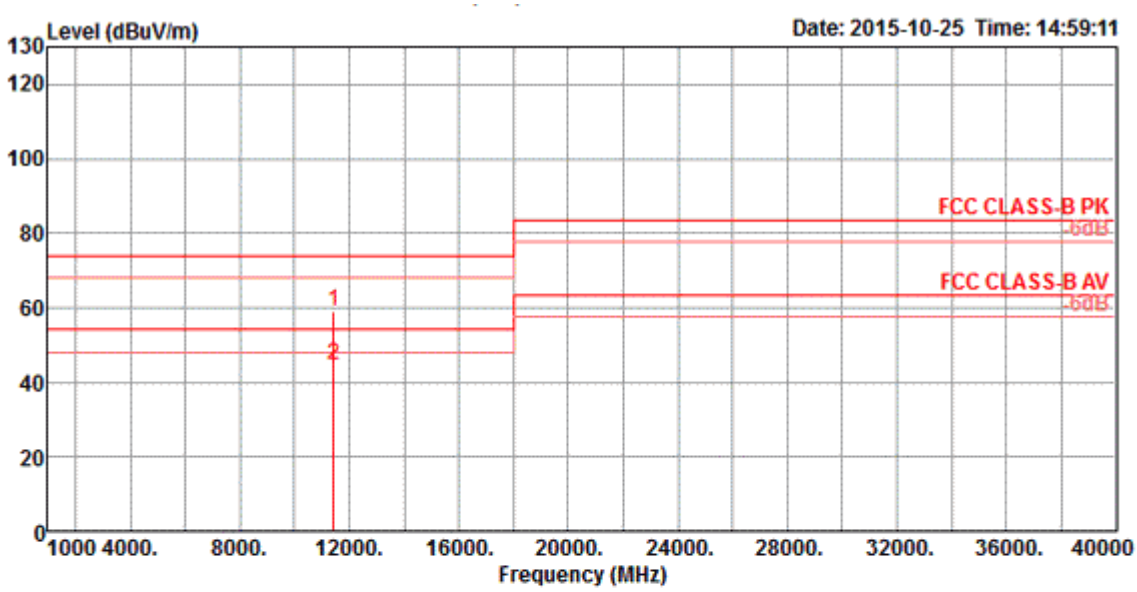
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11436.64	58.50	74.00	-15.50	42.34	11.45	35.23	39.94	HORIZONTAL	147	238	Peak
2	11442.78	44.83	54.00	-9.17	28.67	11.45	35.23	39.94	HORIZONTAL	147	238	Average

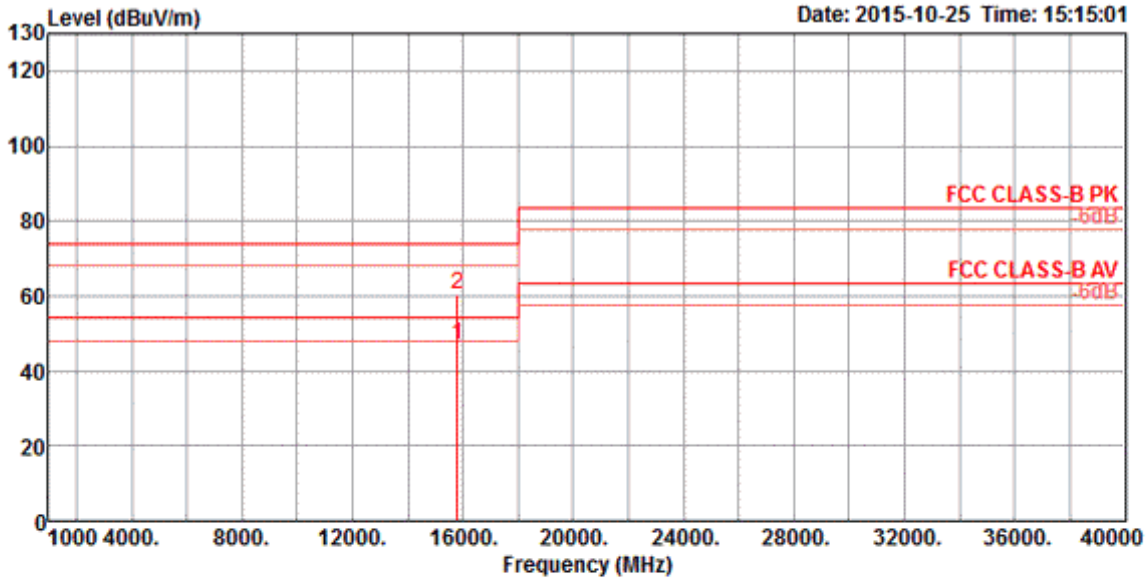
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11438.72	59.01	74.00	-14.99	42.85	11.45	35.23	39.94	VERTICAL	160	204	Peak
2	11442.82	44.78	54.00	-9.22	28.62	11.45	35.23	39.94	VERTICAL	160	204	Average

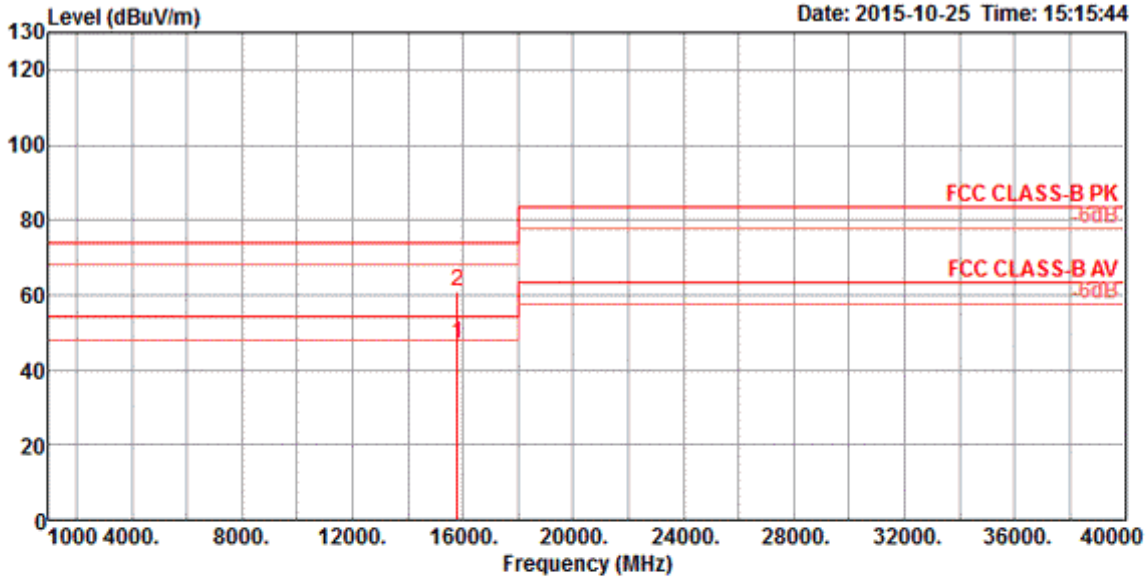
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15806.66	46.97	54.00	-7.03	31.12	13.29	35.39	37.95	HORIZONTAL	170	308	Average
2	15809.72	60.44	74.00	-13.56	44.59	13.29	35.39	37.95	HORIZONTAL	170	308	Peak

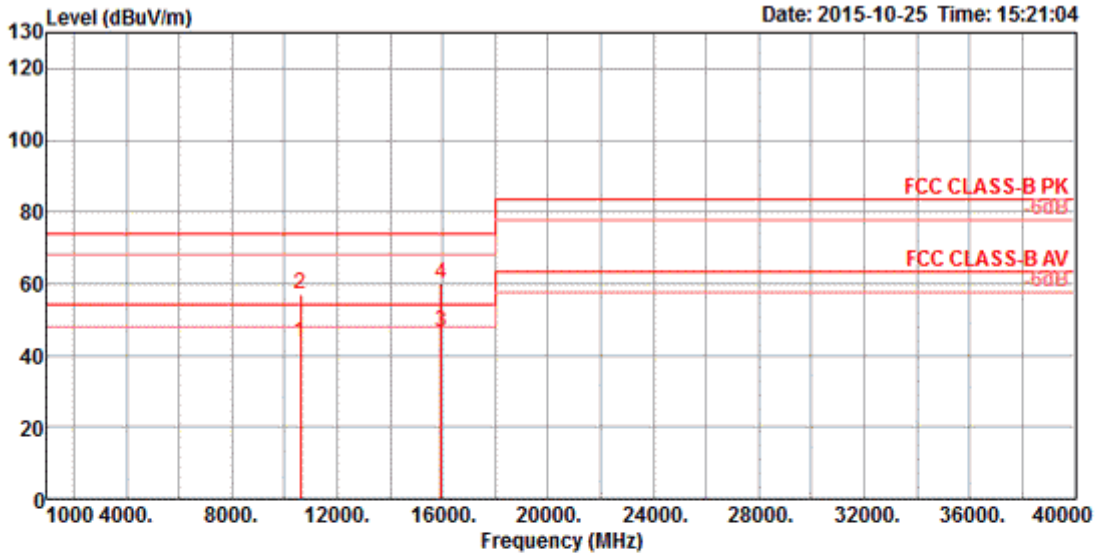
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15806.80	46.96	54.00	-7.04	31.11	13.29	35.39	37.95	VERTICAL	127	263	Average
2	15807.24	60.95	74.00	-13.05	45.10	13.29	35.39	37.95	VERTICAL	127	263	Peak

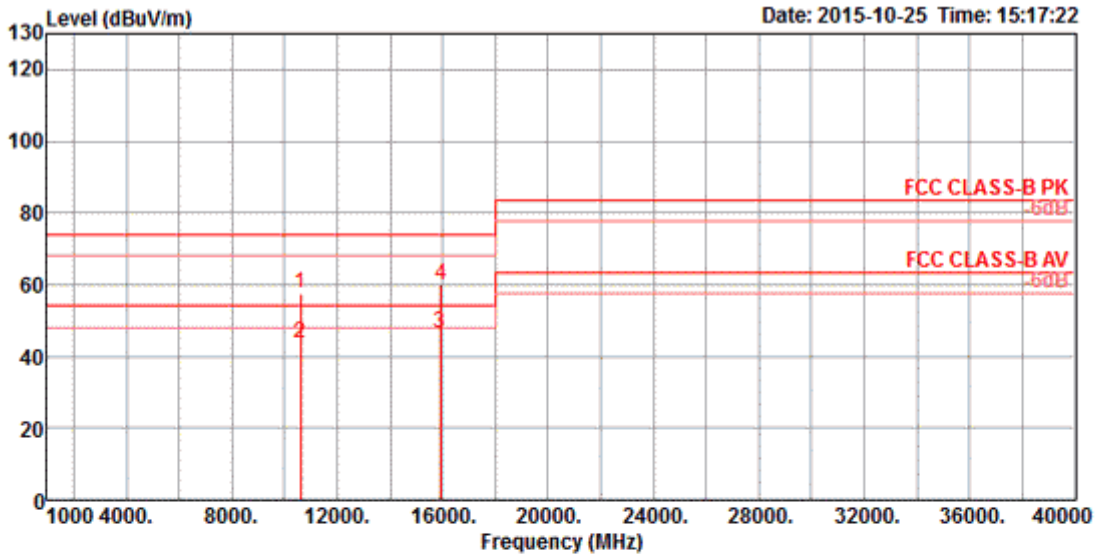
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10623.44	43.72	54.00	-10.28	27.40	11.31	34.97	39.98	HORIZONTAL	166	225	Average
2	10624.06	57.04	74.00	-16.96	40.72	11.31	34.97	39.98	HORIZONTAL	166	225	Peak
3	15927.80	46.48	54.00	-7.52	30.79	13.34	35.41	37.76	HORIZONTAL	143	292	Average
4	15930.34	60.07	74.00	-13.93	44.38	13.34	35.41	37.76	HORIZONTAL	143	292	Peak

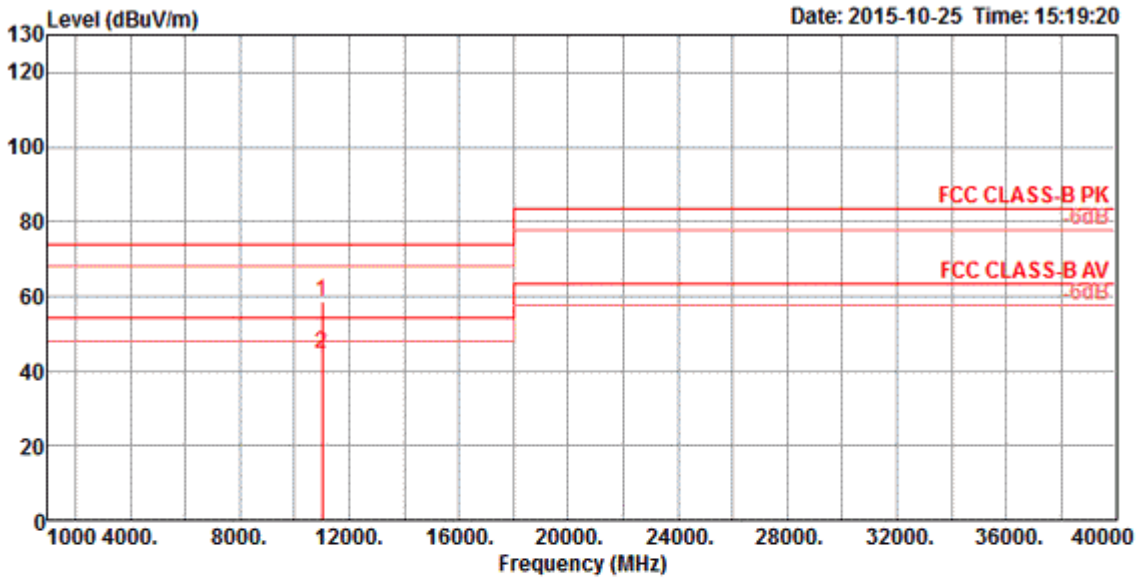
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	10616.74	57.51	74.00	-16.49	41.20	11.32	34.97	39.96	VERTICAL	131	273	Peak
2	10623.10	43.70	54.00	-10.30	27.37	11.32	34.97	39.98	VERTICAL	131	273	Average
3	15925.20	46.53	54.00	-7.47	30.84	13.34	35.41	37.76	VERTICAL	139	276	Average
4	15932.52	60.19	74.00	-13.81	44.50	13.34	35.41	37.76	VERTICAL	139	276	Peak

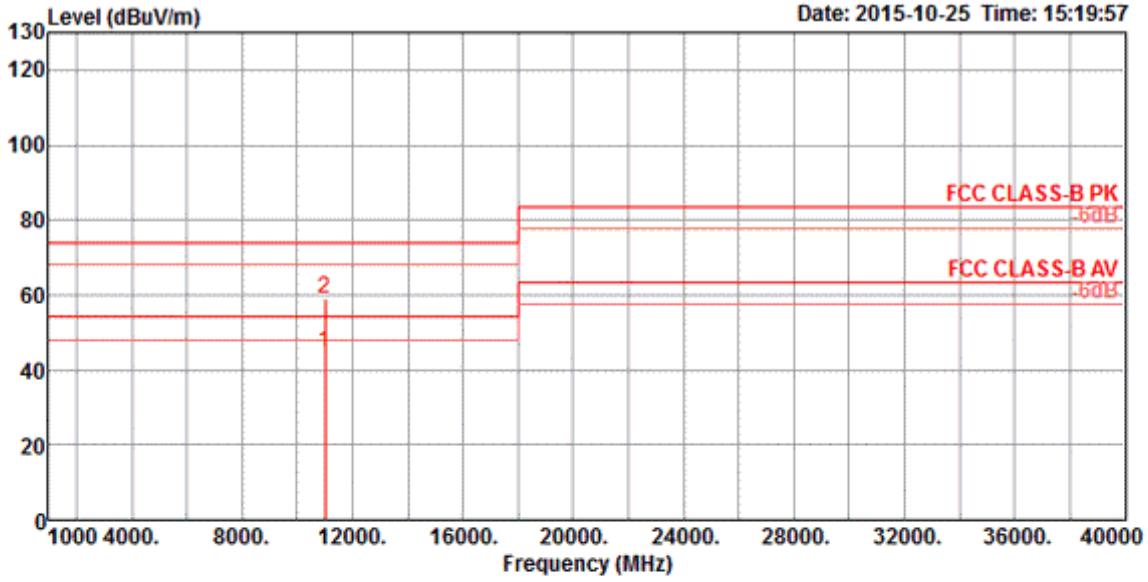
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11015.60	58.51	74.00	-15.49	42.23	11.25	35.17	40.20	HORIZONTAL	148	264	Peak
2	11019.54	44.58	54.00	-9.42	28.29	11.26	35.17	40.20	HORIZONTAL	148	264	Average

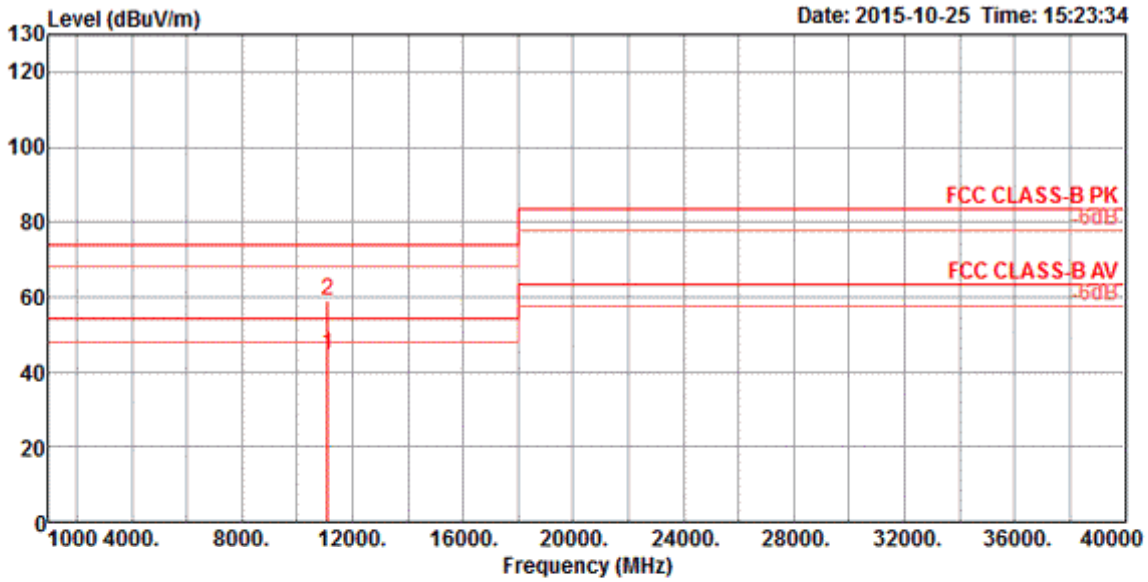
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11019.32	44.52	54.00	-9.48	28.23	11.26	35.17	40.20	VERTICAL	166	225	Average
2	11020.48	59.15	74.00	-14.85	42.86	11.26	35.17	40.20	VERTICAL	166	225	Peak

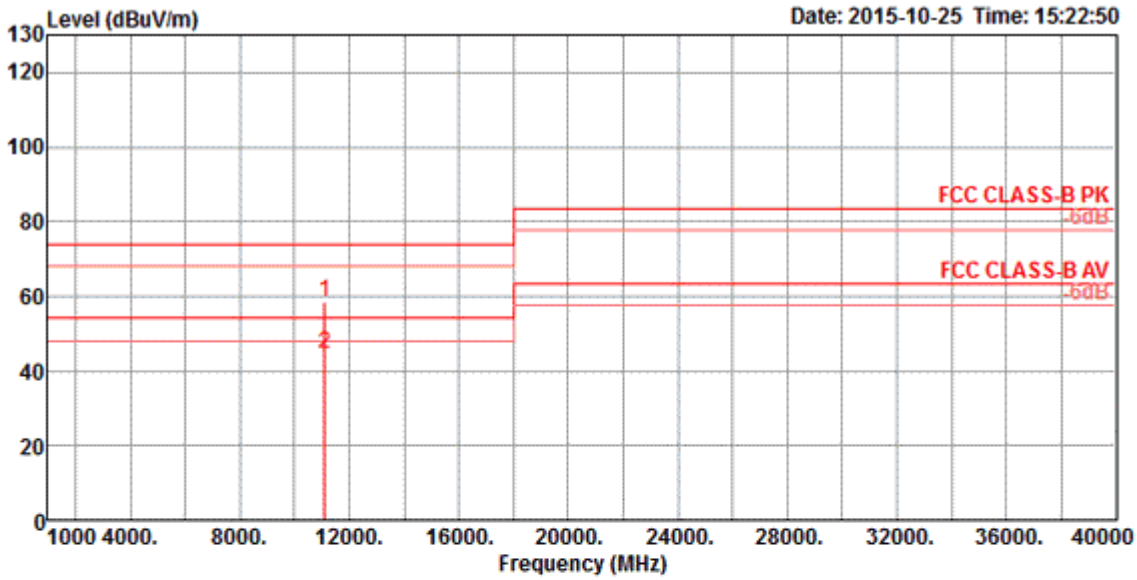
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 110 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11099.16	44.79	54.00	-9.21	28.54	11.29	35.18	40.14	HORIZONTAL	121	168	Average
2	11101.94	59.01	74.00	-14.99	42.76	11.29	35.18	40.14	HORIZONTAL	121	168	Peak

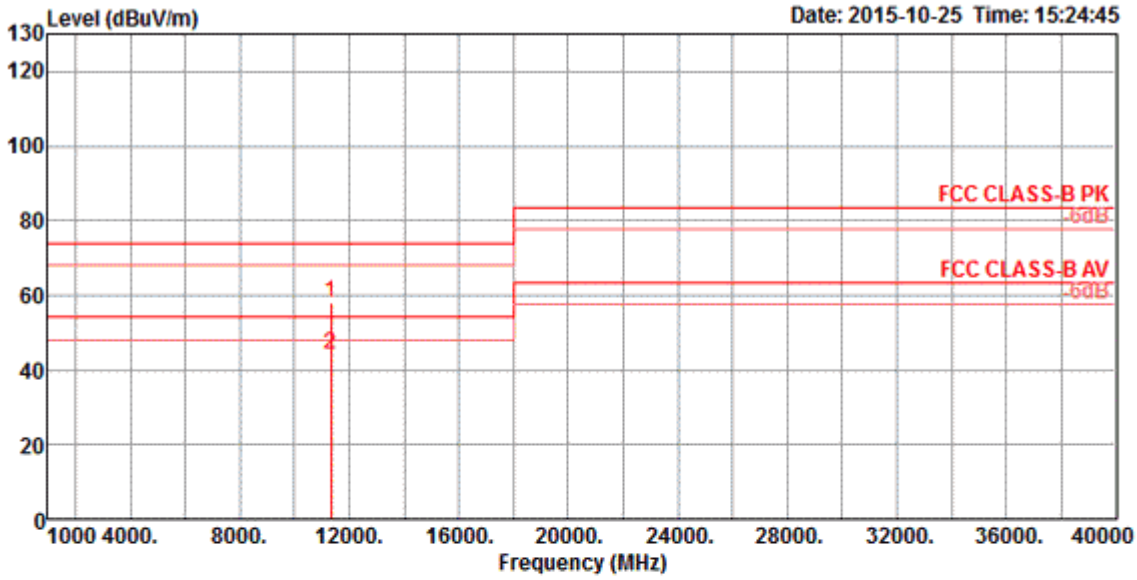
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11101.44	58.37	74.00	-15.63	42.12	11.29	35.18	40.14	VERTICAL	155	192	Peak
2	11101.94	44.73	54.00	-9.27	28.48	11.29	35.18	40.14	VERTICAL	155	192	Average

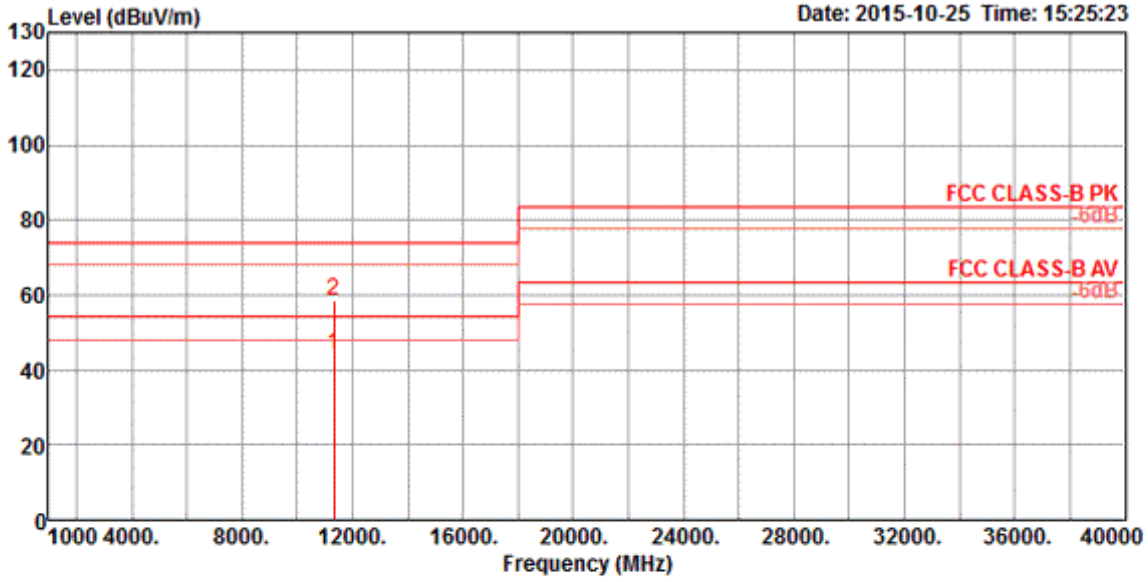
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 134 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11343.14	58.00	74.00	-16.00	41.81	11.40	35.21	40.00	HORIZONTAL	112	108	Peak
2	11343.70	44.24	54.00	-9.76	28.05	11.40	35.21	40.00	HORIZONTAL	112	108	Average

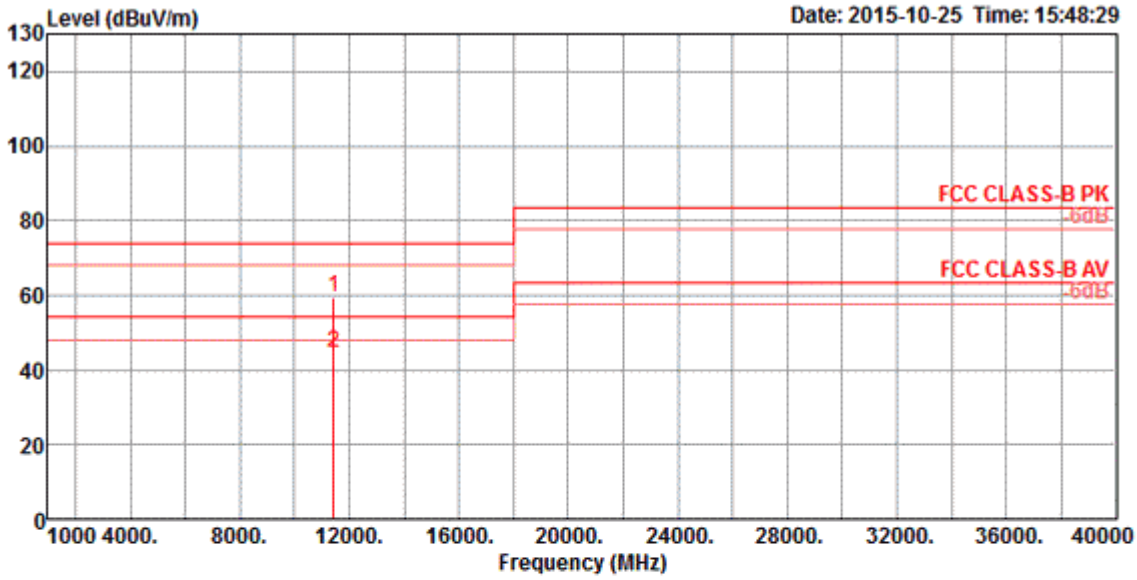
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11335.10	44.23	54.00	-9.77	28.04	11.40	35.21	40.00	VERTICAL	106	80	Average
2	11338.98	58.32	74.00	-15.68	42.13	11.40	35.21	40.00	VERTICAL	106	80	Peak

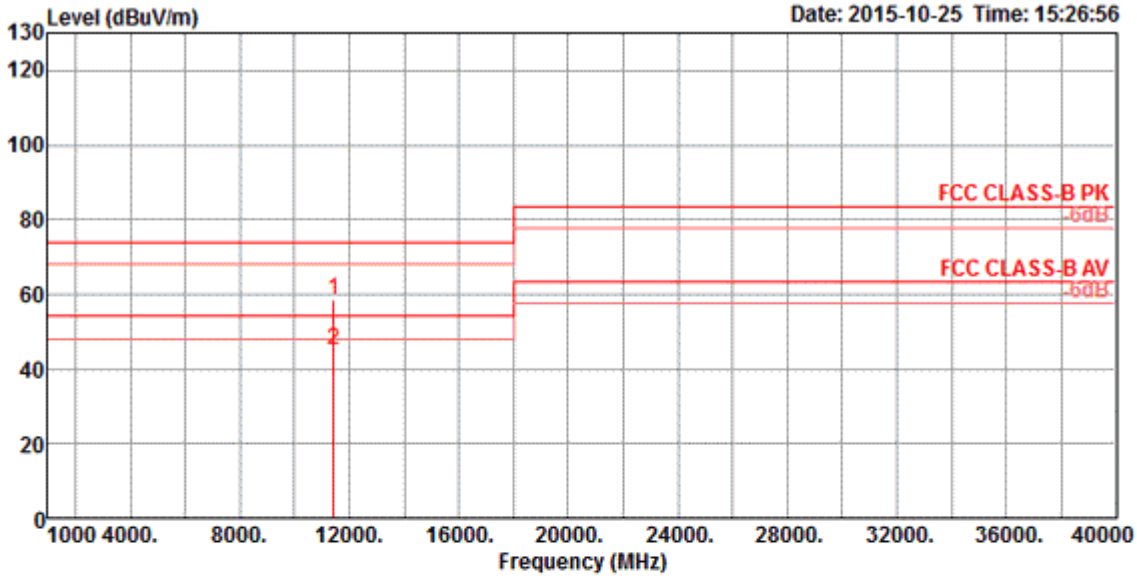
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11419.10	59.64	74.00	-14.36	43.48	11.44	35.22	39.94	HORIZONTAL	174	169	Peak
2	11423.66	44.83	54.00	-9.17	28.67	11.44	35.22	39.94	HORIZONTAL	174	169	Average

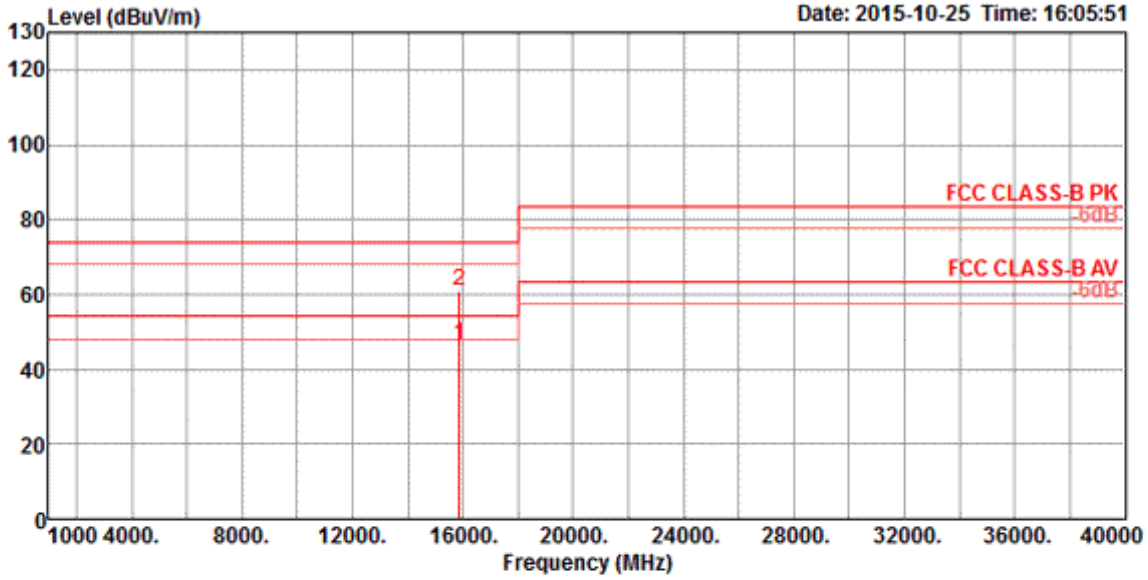
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11421.44	58.55	74.00	-15.45	42.39	11.44	35.22	39.94	VERTICAL	130	105	Peak
2	11423.62	44.89	54.00	-9.11	28.73	11.44	35.22	39.94	VERTICAL	130	105	Average

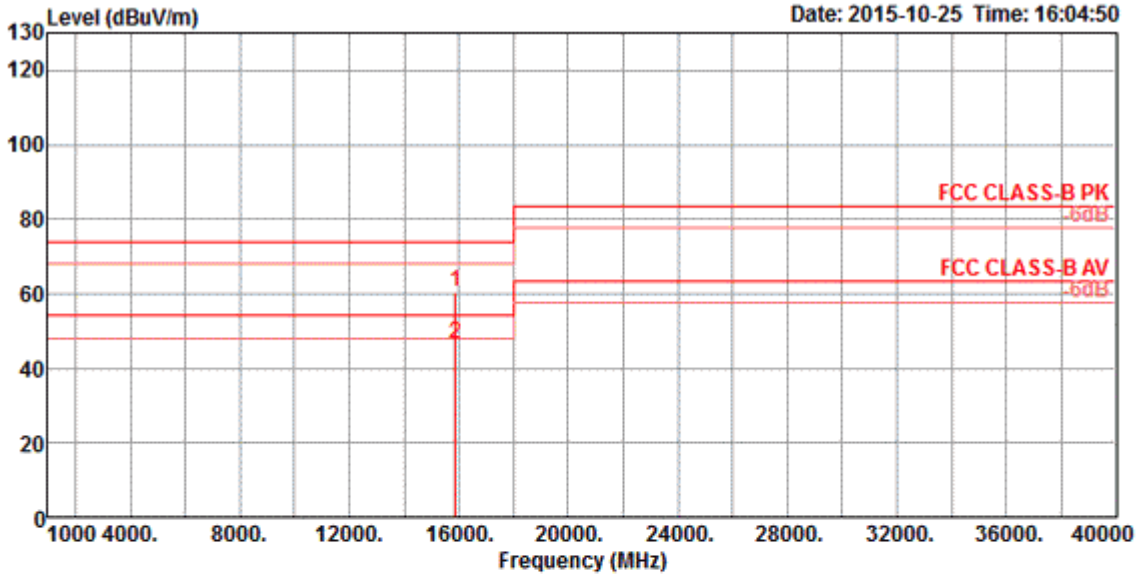
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15869.18	46.65	54.00	-7.35	30.85	13.31	35.40	37.89	HORIZONTAL	120	304	Average
2	15874.92	60.78	74.00	-13.22	45.03	13.32	35.40	37.83	HORIZONTAL	120	304	Peak

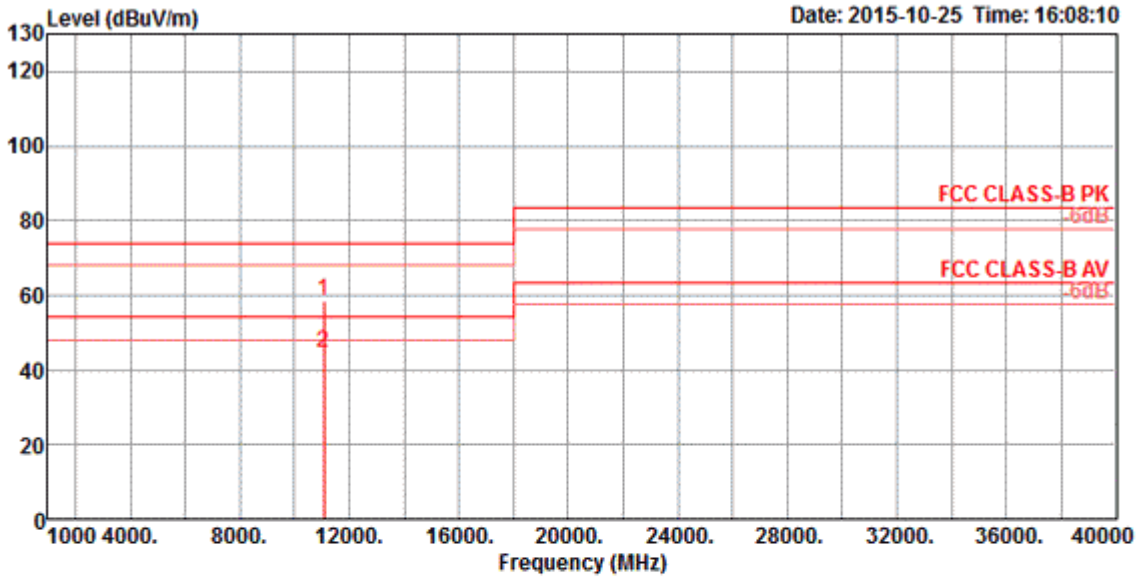
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	15867.58	60.33	74.00	-13.67	44.53	13.31	35.40	37.89	VERTICAL	151	330	Peak
2	15874.86	46.59	54.00	-7.41	30.84	13.32	35.40	37.83	VERTICAL	151	330	Average

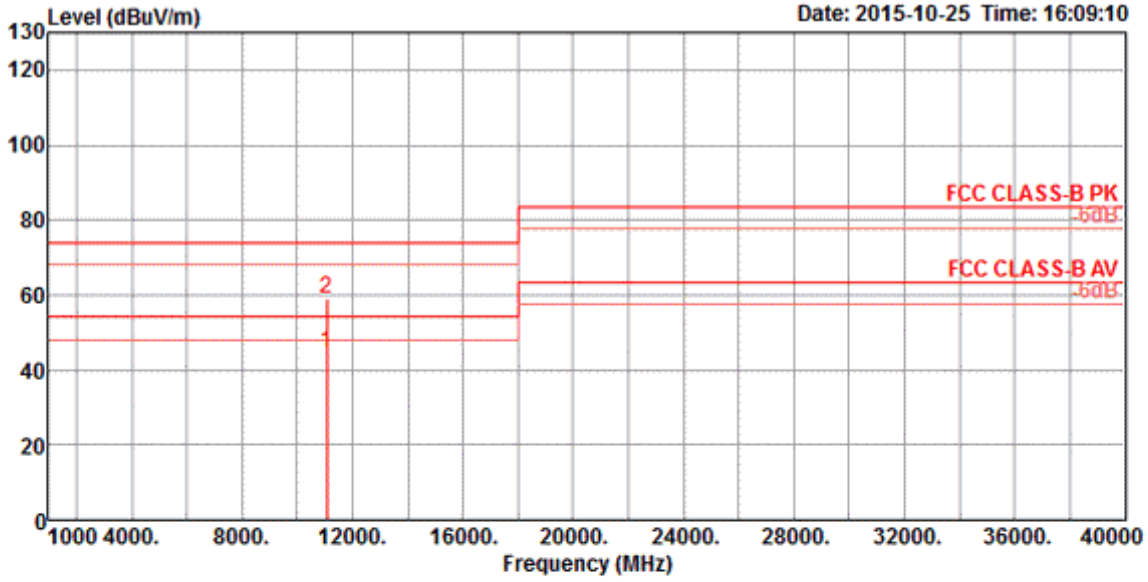
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 106 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	PreampFactor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11058.40	58.61	74.00	-15.39	42.33	11.27	35.17	40.18	HORIZONTAL	156	218	Peak
2	11063.34	44.59	54.00	-9.41	28.33	11.27	35.17	40.16	HORIZONTAL	156	218	Average

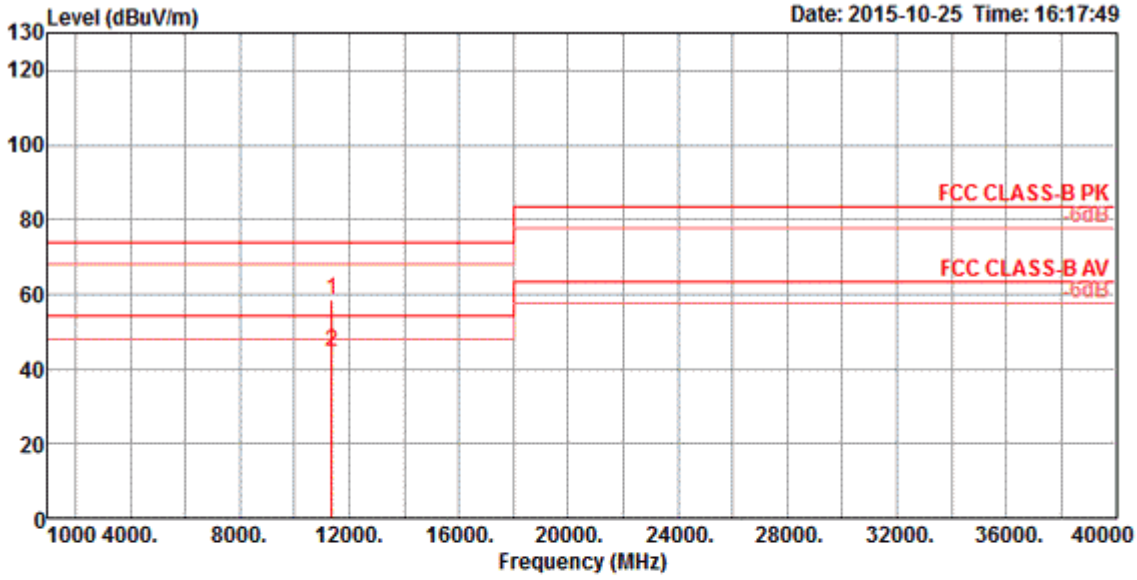
Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11058.12	44.62	54.00	-9.38	28.34	11.27	35.17	40.18	VERTICAL	170	181	Average
2	11063.80	59.17	74.00	-14.83	42.91	11.27	35.17	40.16	VERTICAL	170	181	Peak

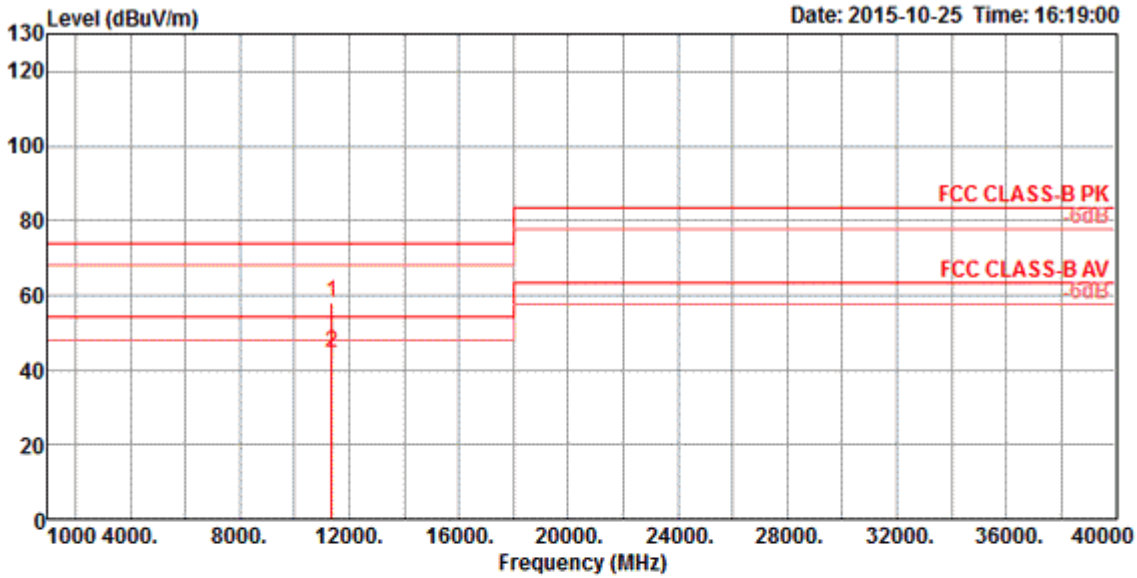
Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11381.02	58.49	74.00	-15.51	42.31	11.42	35.22	39.98	HORIZONTAL	177	229	Peak
2	11382.58	44.51	54.00	-9.49	28.33	11.42	35.22	39.98	HORIZONTAL	177	229	Average

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	11382.10	57.87	74.00	-16.13	41.69	11.42	35.22	39.98	VERTICAL	146	246	Peak
2	11382.48	44.63	54.00	-9.37	28.45	11.42	35.22	39.98	VERTICAL	146	246	Average

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.7.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

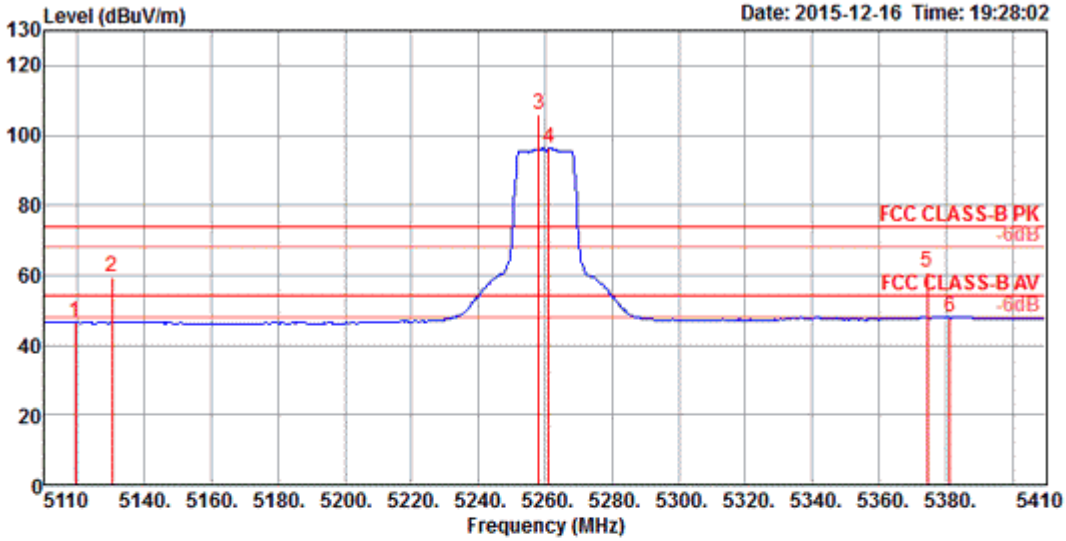
The EUT was programmed to be in continuously transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

<For 1TX>

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1

Channel 52

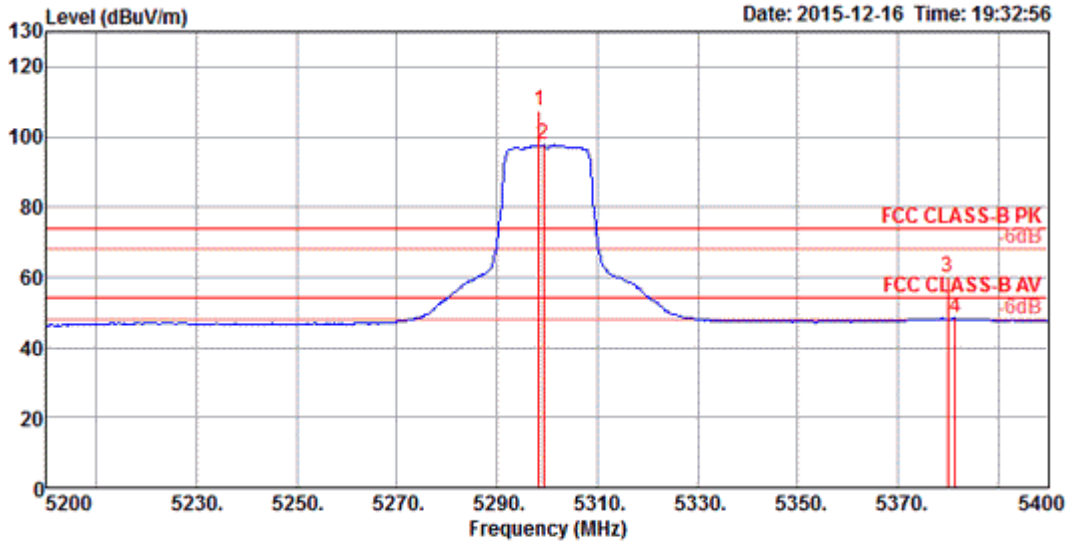


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5119.00	46.61	54.00	-7.39	40.27	7.78	32.94	31.50	VERTICAL	197	249	Average
2	5130.20	59.26	74.00	-14.74	52.91	7.78	32.94	31.51	VERTICAL	197	249	Peak
3	5258.20	106.11			99.65	7.78	32.93	31.61	VERTICAL	197	249	Peak
4	5261.20	96.25			89.79	7.78	32.93	31.61	VERTICAL	197	249	Average
5	5374.60	60.69	74.00	-13.31	54.15	7.77	32.93	31.70	VERTICAL	197	249	Peak
6	5381.20	47.99	54.00	-6.01	41.45	7.77	32.93	31.70	VERTICAL	197	249	Average

Item 3, 4 are the fundamental frequency at 5260 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 60

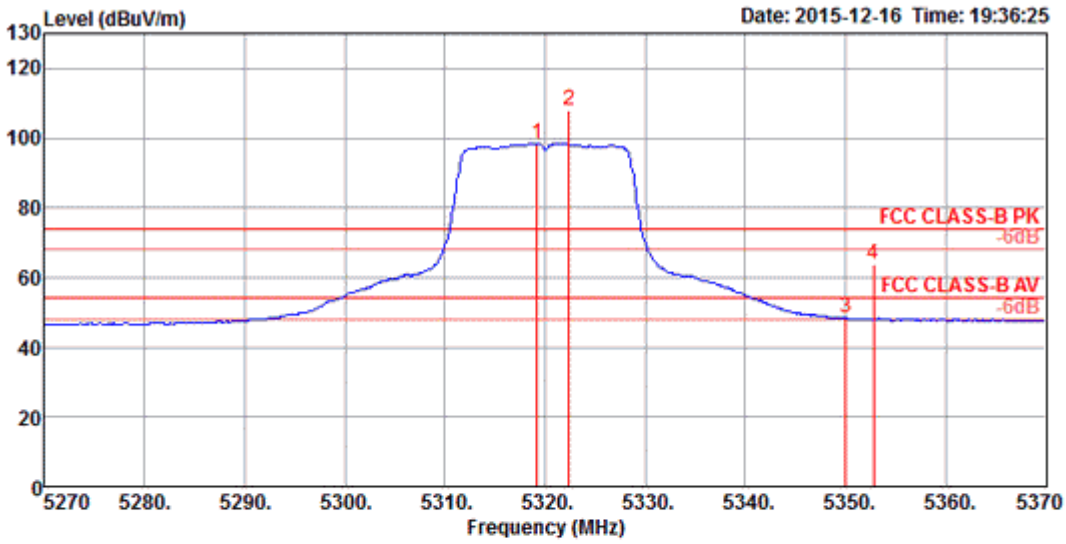


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5298.40	107.23			100.75	7.77	32.93	31.64	VERTICAL	175	252	Peak
2	5299.20	97.69			91.21	7.77	32.93	31.64	VERTICAL	175	252	Average
3	5380.00	59.73	74.00	-14.27	53.19	7.77	32.93	31.70	VERTICAL	175	252	Peak
4	5381.60	48.22	54.00	-5.78	41.68	7.77	32.93	31.70	VERTICAL	175	252	Average

Item 1, 2 are the fundamental frequency at 5300 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 64



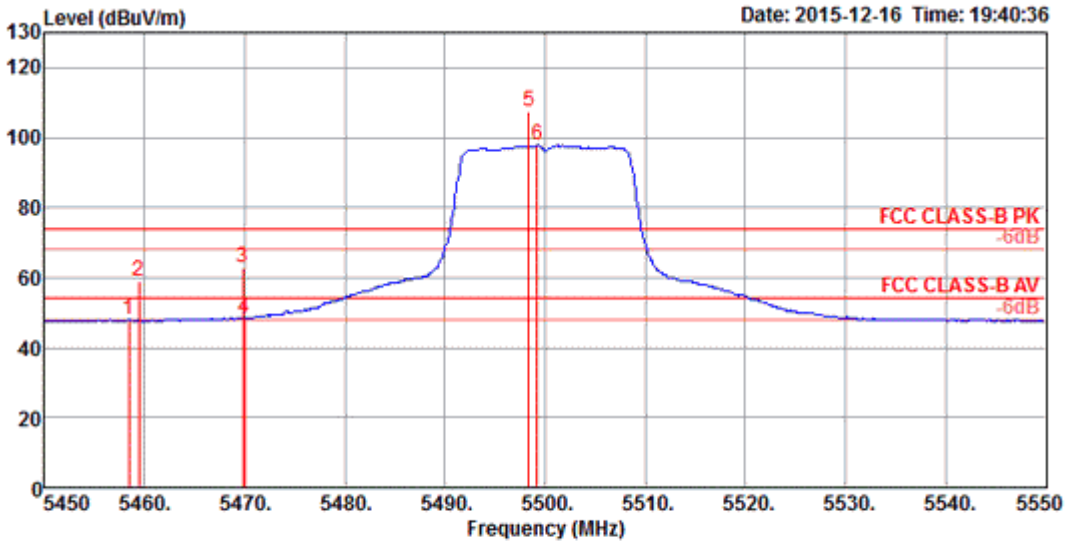
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5319.20	98.33			91.84	7.77	32.93	31.65	VERTICAL	174	248	Average
2	5322.40	107.96			101.47	7.77	32.93	31.65	VERTICAL	174	248	Peak
3	5350.00	48.41	54.00	-5.59	41.89	7.77	32.93	31.68	VERTICAL	174	248	Average
4	5352.80	63.75	74.00	-10.25	57.23	7.77	32.93	31.68	VERTICAL	174	248	Peak

Item 1, 2 are the fundamental frequency at 5320 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 100, 116, 140, 144 / Chain 1

Channel 100

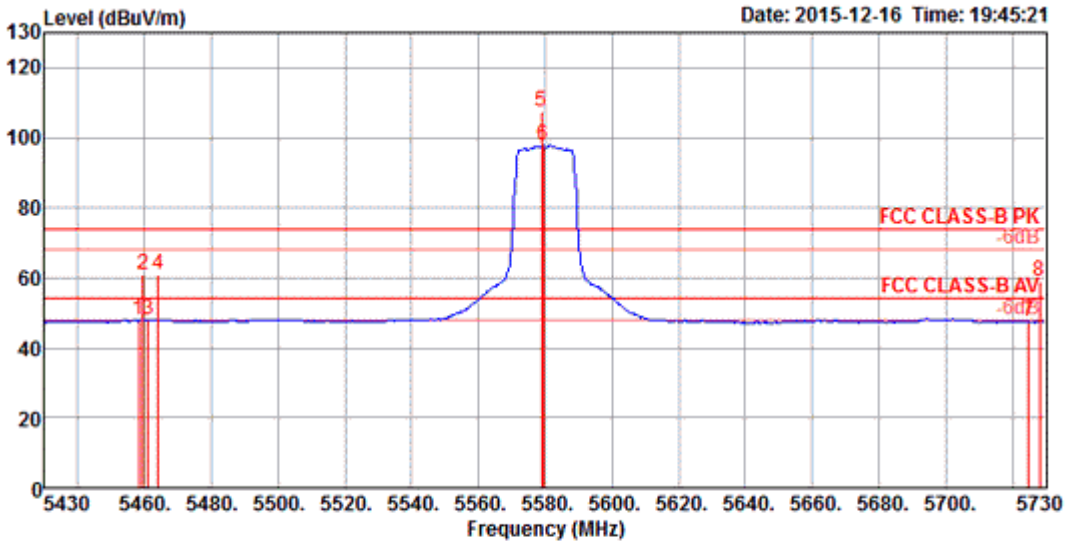


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5458.40	47.81	54.00	-6.19	41.16	7.81	32.92	31.76	VERTICAL	158	249	Average
2	5459.40	59.21	74.00	-14.79	52.56	7.81	32.92	31.76	VERTICAL	158	249	Peak
3	5469.80	62.89	74.00	-11.11	56.21	7.82	32.92	31.78	VERTICAL	158	249	Peak
4	5470.00	48.44	54.00	-5.56	41.76	7.82	32.92	31.78	VERTICAL	158	249	Average
5	5498.40	107.58			100.87	7.83	32.92	31.80	VERTICAL	158	249	Peak
6	5499.20	97.68			90.97	7.83	32.92	31.80	VERTICAL	158	249	Average

Item 5, 6 are the fundamental frequency at 5500 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 116

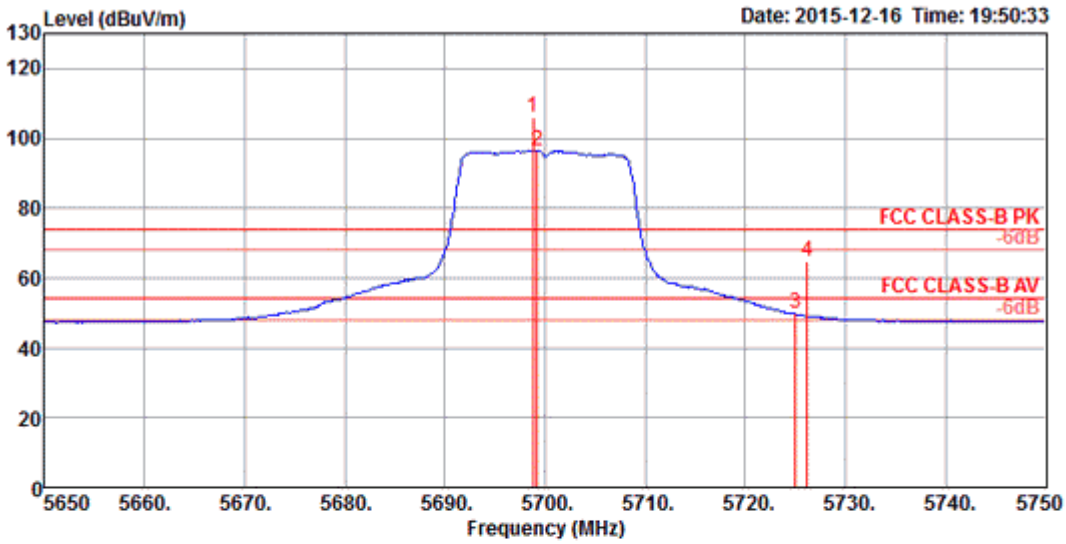


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5458.20	47.96	54.00	-6.04	41.31	7.81	32.92	31.76	VERTICAL	161	260	Average
2	5459.40	61.09	74.00	-12.91	54.44	7.81	32.92	31.76	VERTICAL	161	260	Peak
3	5461.00	48.09	54.00	-5.91	41.44	7.81	32.92	31.76	VERTICAL	161	260	Average
4	5464.00	60.85	74.00	-13.15	54.17	7.82	32.92	31.78	VERTICAL	161	260	Peak
5	5578.80	107.28			100.46	7.88	32.96	31.90	VERTICAL	161	260	Peak
6	5579.40	97.77			90.95	7.88	32.96	31.90	VERTICAL	161	260	Average
7	5725.00	47.29	54.00	-6.71	40.17	8.04	33.00	32.08	VERTICAL	161	260	Average
8	5728.20	59.22	74.00	-14.78	52.11	8.04	33.01	32.08	VERTICAL	161	260	Peak

Item 5, 6 are the fundamental frequency at 5580 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 140

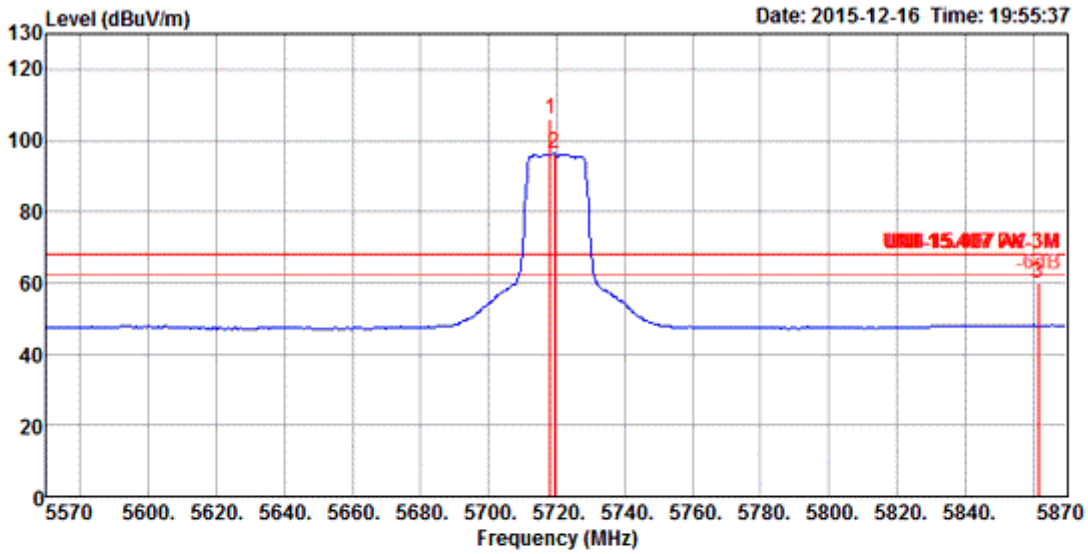


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5698.80	106.10			99.05	8.01	33.00	32.04	VERTICAL	163	255	Peak
2	5699.20	96.42			89.37	8.01	33.00	32.04	VERTICAL	163	255	Average
3	5725.00	49.66	54.00	-4.34	42.54	8.04	33.00	32.08	VERTICAL	163	255	Average
4	5726.20	64.87	74.00	-9.13	57.75	8.04	33.00	32.08	VERTICAL	163	255	Peak

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 144



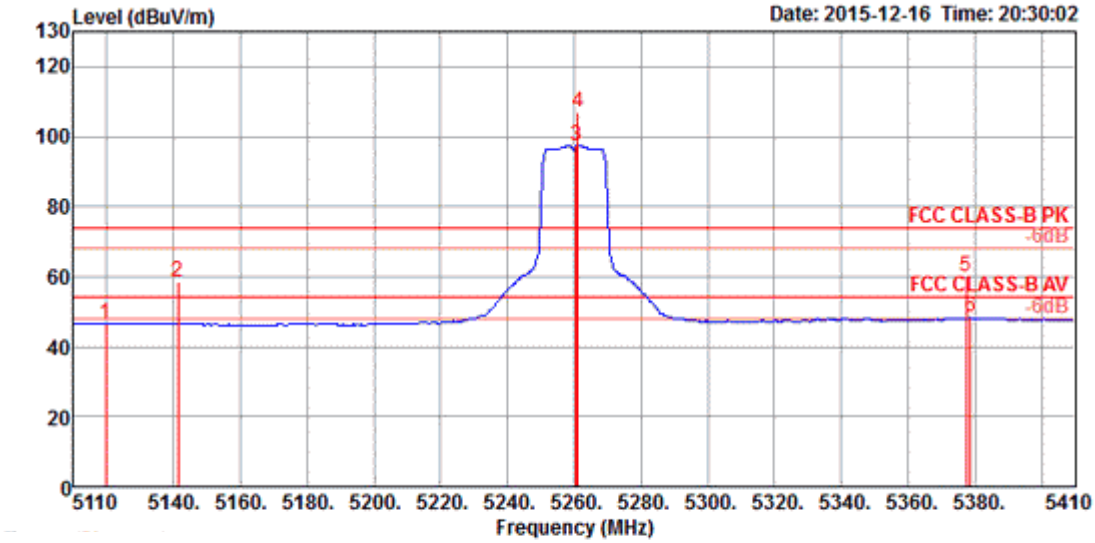
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5718.20	106.06			98.98	8.02	33.00	32.06	VERTICAL	267	249	Peak
2	5719.40	96.25			89.17	8.02	33.00	32.06	VERTICAL	267	249	Average
3	5861.60	59.97	68.20	-8.23	52.60	8.19	33.06	32.24	VERTICAL	267	249	Peak

Item 1, 2 are the fundamental frequency at 5270MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1

Channel 52

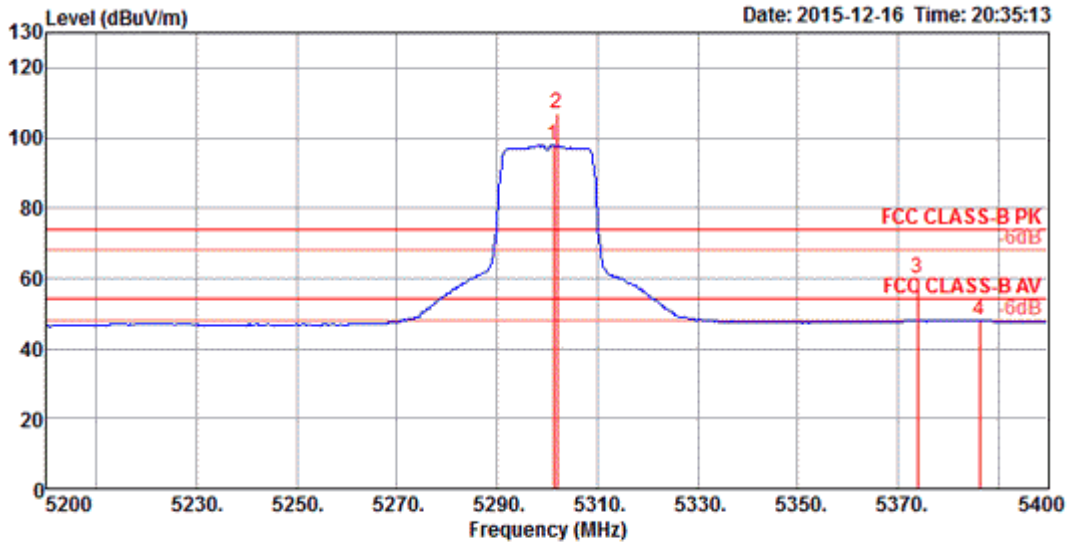


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5119.60	46.63	54.00	-7.37	40.29	7.78	32.94	31.50	VERTICAL	179	253	Average
2	5141.20	58.50	74.00	-15.50	52.15	7.78	32.94	31.51	VERTICAL	179	253	Peak
3	5260.60	97.26			90.80	7.78	32.93	31.61	VERTICAL	179	253	Average
4	5261.20	106.85			100.39	7.78	32.93	31.61	VERTICAL	179	253	Peak
5	5377.60	59.97	74.00	-14.03	53.43	7.77	32.93	31.70	VERTICAL	179	253	Peak
6	5378.80	48.28	54.00	-5.72	41.74	7.77	32.93	31.70	VERTICAL	179	253	Average

Item 3, 4 are the fundamental frequency at 5260 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 60

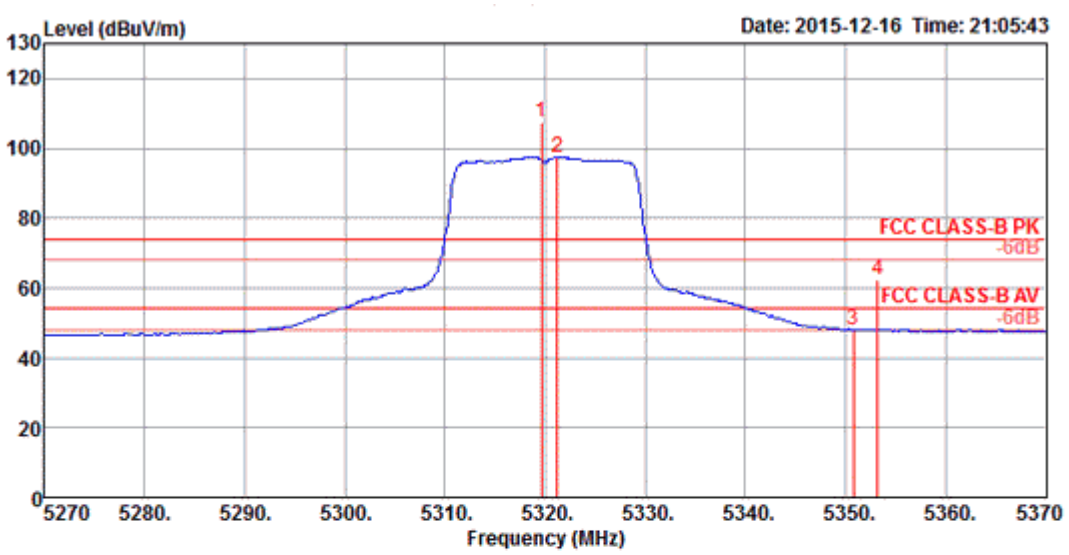


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5301.20	97.79			91.31	7.77	32.93	31.64	VERTICAL	181	248	Average
2	5302.00	107.18			100.70	7.77	32.93	31.64	VERTICAL	181	248	Peak
3	5374.00	60.10	74.00	-13.90	53.56	7.77	32.93	31.70	VERTICAL	181	248	Peak
4	5386.40	47.99	54.00	-6.01	41.43	7.77	32.93	31.72	VERTICAL	181	248	Average

Item 1, 2 are the fundamental frequency at 5300 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 64



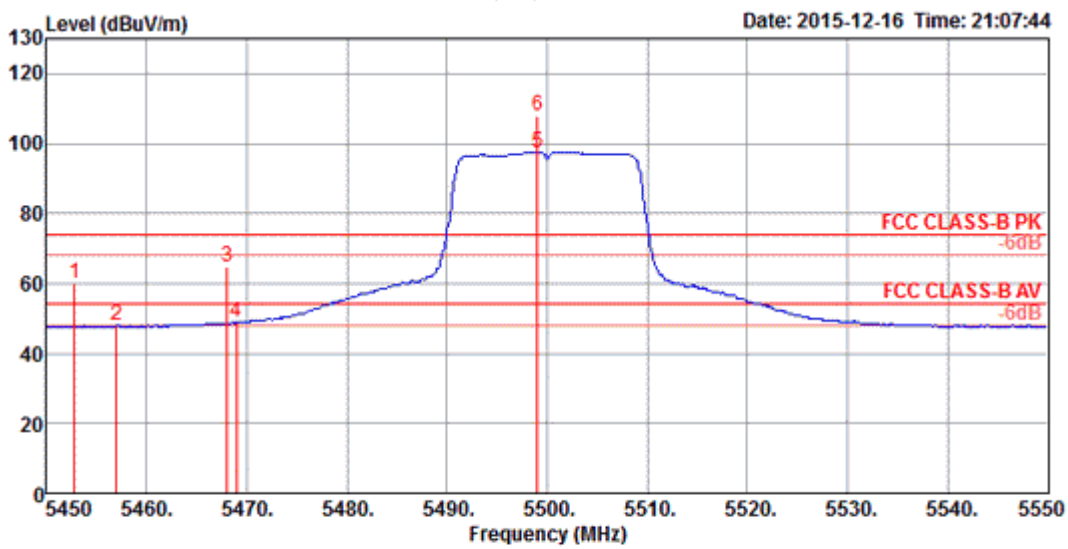
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5319.60	107.33			100.84	7.77	32.93	31.65	VERTICAL	161	249	Peak
2	5321.20	97.46			90.97	7.77	32.93	31.65	VERTICAL	161	249	Average
3	5350.80	48.19	54.00	-5.81	41.67	7.77	32.93	31.68	VERTICAL	161	249	Average
4	5353.20	62.17	74.00	-11.83	55.65	7.77	32.93	31.68	VERTICAL	161	249	Peak

Item 1, 2 are the fundamental frequency at 5320 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140, 144 / Chain 1

Channel 100

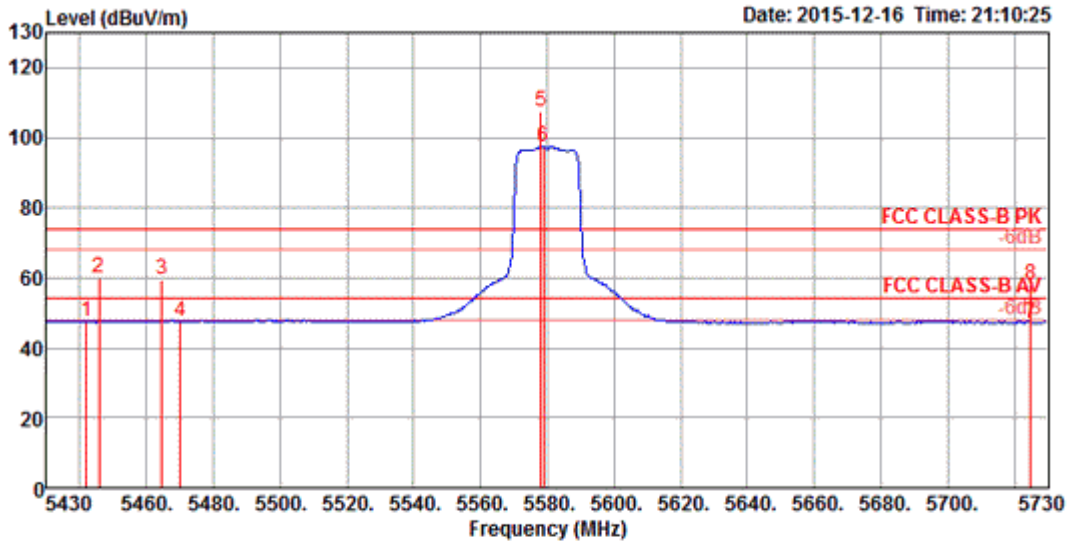


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5452.80	60.09	74.00	-13.91	53.44	7.81	32.92	31.76	VERTICAL	174	248	Peak
2	5457.00	47.82	54.00	-6.18	41.17	7.81	32.92	31.76	VERTICAL	174	248	Average
3	5468.00	64.99	74.00	-9.01	58.31	7.82	32.92	31.78	VERTICAL	174	248	Peak
4	5469.00	48.86	54.00	-5.14	42.18	7.82	32.92	31.78	VERTICAL	174	248	Average
5	5499.00	97.62			90.91	7.83	32.92	31.80	VERTICAL	174	248	Average
6	5499.00	108.11			101.40	7.83	32.92	31.80	VERTICAL	174	248	Peak

Item 5, 6 are the fundamental frequency at 5500 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 116

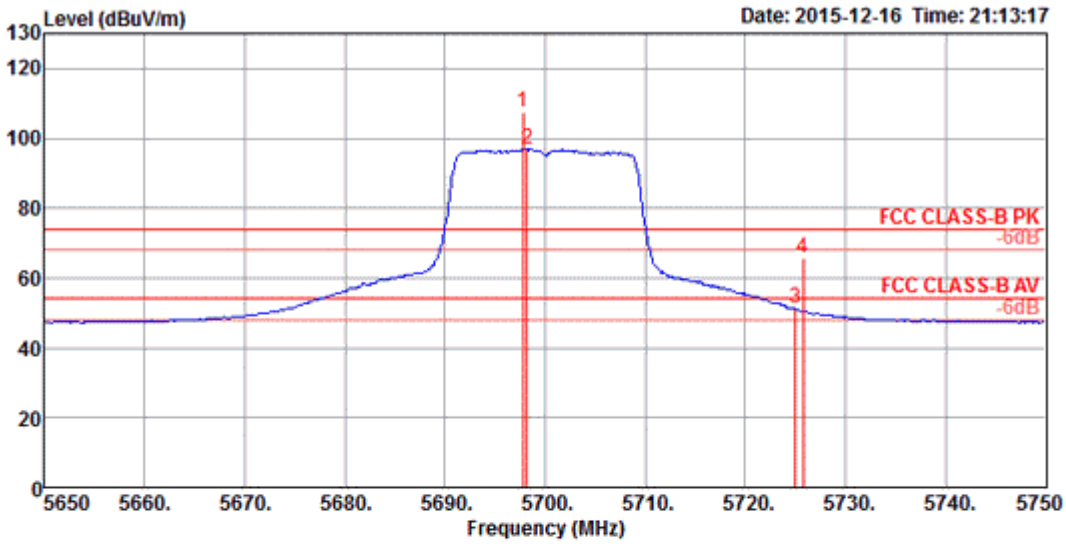


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5442.00	47.63	54.00	-6.37	41.00	7.80	32.92	31.75	VERTICAL	142	249	Average
2	5445.60	60.17	74.00	-13.83	53.54	7.80	32.92	31.75	VERTICAL	142	249	Peak
3	5464.60	59.48	74.00	-14.52	52.80	7.82	32.92	31.78	VERTICAL	142	249	Peak
4	5470.00	47.59	54.00	-6.41	40.91	7.82	32.92	31.78	VERTICAL	142	249	Average
5	5578.20	107.50			100.68	7.88	32.96	31.90	VERTICAL	142	249	Peak
6	5578.80	97.56			90.74	7.88	32.96	31.90	VERTICAL	142	249	Average
7	5725.00	46.95	54.00	-7.05	39.83	8.04	33.00	32.08	VERTICAL	142	249	Average
8	5725.00	58.23	74.00	-15.77	51.11	8.04	33.00	32.08	VERTICAL	142	249	Peak

Item 5, 6 are the fundamental frequency at 5580 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 140

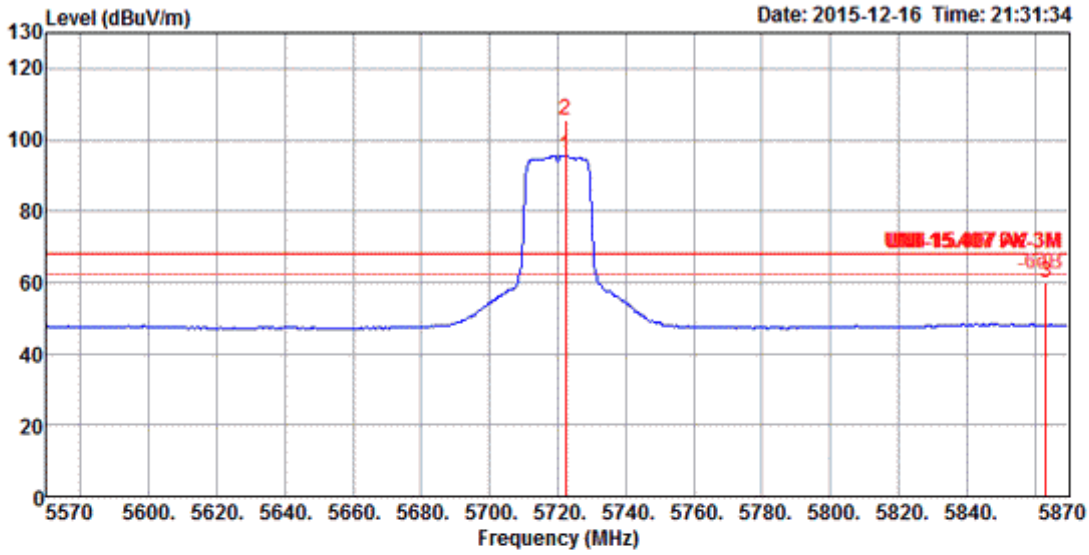


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5697.80	107.37			100.32	8.01	33.00	32.04	VERTICAL	161	250	Peak
2	5698.20	96.78			89.73	8.01	33.00	32.04	VERTICAL	161	250	Average
3	5725.00	51.10	54.00	-2.90	43.98	8.04	33.00	32.08	VERTICAL	161	250	Average
4	5725.80	65.65	74.00	-8.35	58.53	8.04	33.00	32.08	VERTICAL	161	250	Peak

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 144



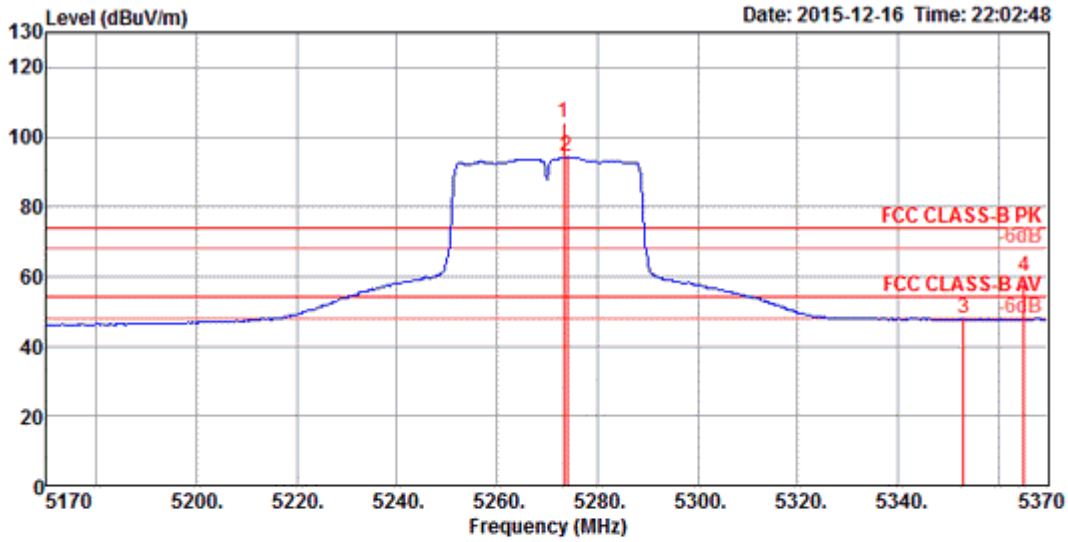
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5722.40	95.30			88.18	8.04	33.00	32.08	VERTICAL	257	248	Average
2	5722.40	105.76			98.64	8.04	33.00	32.08	VERTICAL	257	248	Peak
3	5863.40	59.91	68.20	-8.29	52.54	8.19	33.06	32.24	VERTICAL	257	248	Peak

Item 1, 2 are the fundamental frequency at 5270MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1

Channel 54

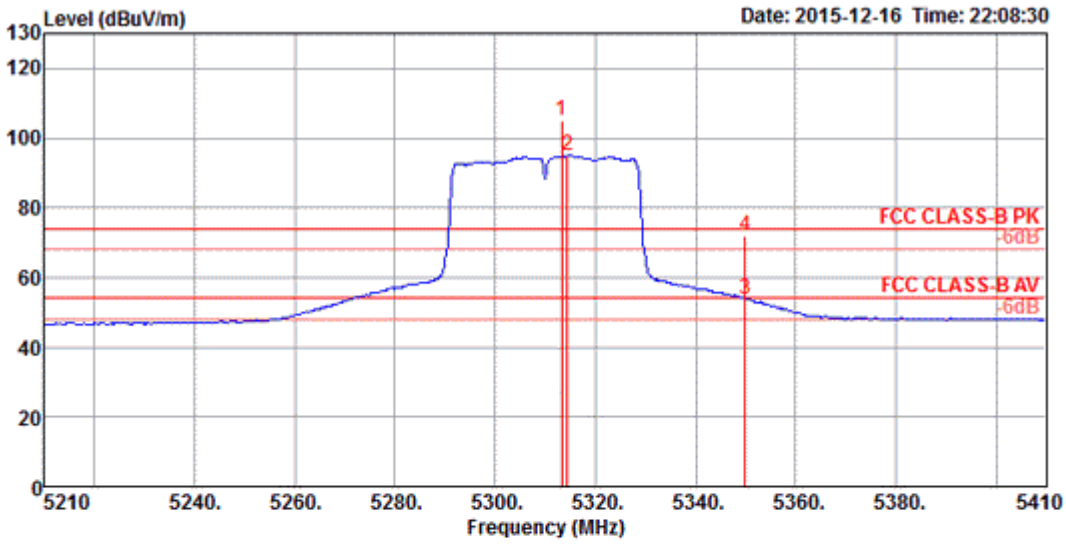


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5273.20	104.20			97.73	7.78	32.93	31.62	VERTICAL	200	247	Peak
2	5274.00	94.28			87.81	7.78	32.93	31.62	VERTICAL	200	247	Average
3	5353.20	47.81	54.00	-6.19	41.29	7.77	32.93	31.68	VERTICAL	200	247	Average
4	5365.20	59.87	74.00	-14.13	53.34	7.77	32.93	31.69	VERTICAL	200	247	Peak

Item 1, 2 are the fundamental frequency at 5270 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 62



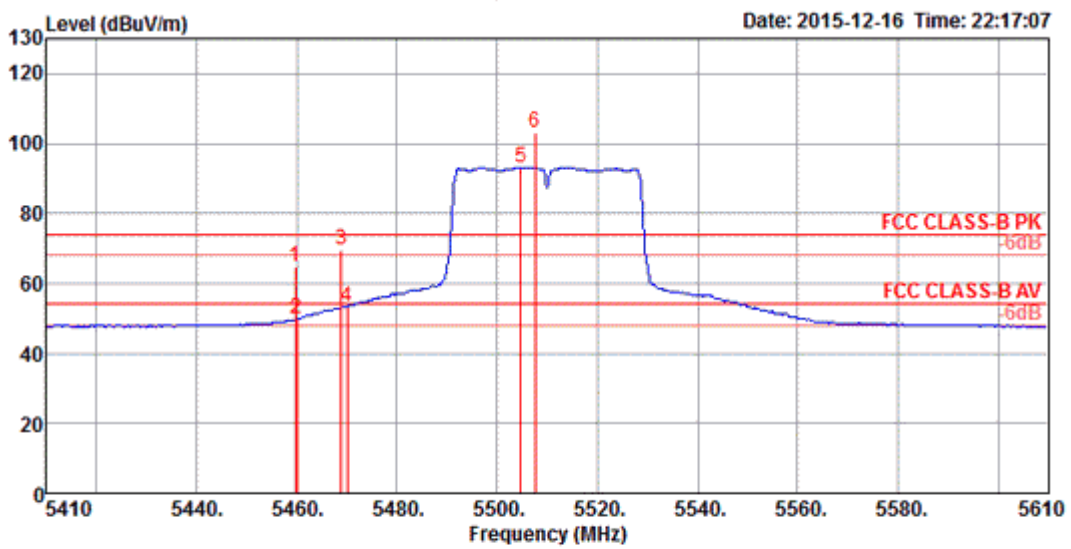
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5313.20	104.84			98.35	7.77	32.93	31.65	VERTICAL	176	246	Peak
2	5314.40	94.92			88.43	7.77	32.93	31.65	VERTICAL	176	246	Average
3	5350.00	53.80	54.00	-0.20	47.28	7.77	32.93	31.68	VERTICAL	176	246	Average
4	5350.00	71.73	74.00	-2.27	65.21	7.77	32.93	31.68	VERTICAL	176	246	Peak

Item 1, 2 are the fundamental frequency at 5310 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134, 142 / Chain 1

Channel 102

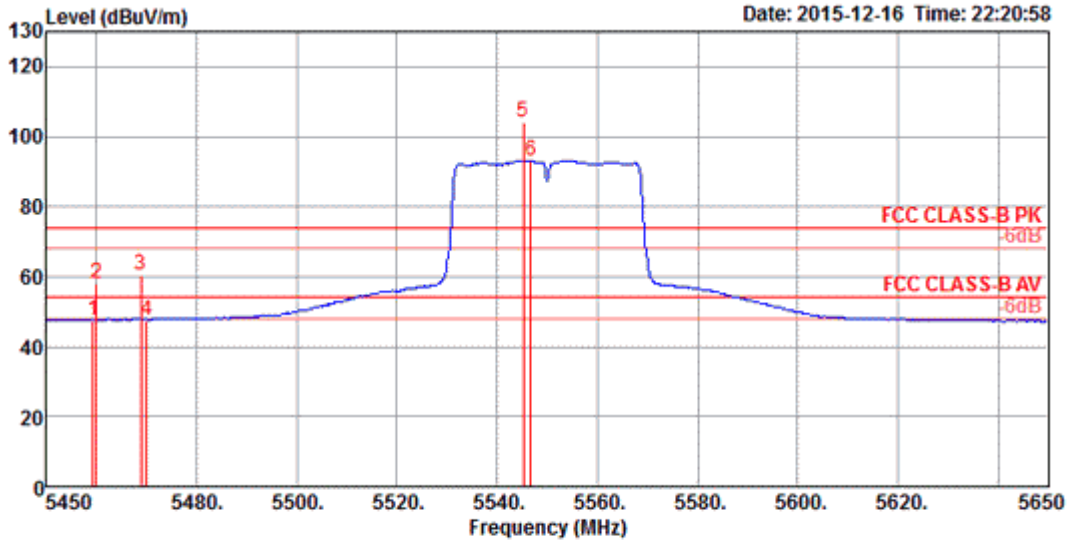


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5459.60	64.58	74.00	-9.42	57.93	7.81	32.92	31.76	VERTICAL	303	249	Peak
2	5460.00	49.76	54.00	-4.24	43.11	7.81	32.92	31.76	VERTICAL	303	249	Average
3	5468.80	69.75	74.00	-4.25	63.07	7.82	32.92	31.78	VERTICAL	303	249	Peak
4	5470.00	53.38	54.00	-0.62	46.70	7.82	32.92	31.78	VERTICAL	303	249	Average
5	5504.80	93.26			86.55	7.83	32.92	31.80	VERTICAL	303	249	Average
6	5507.60	103.09			96.39	7.83	32.93	31.80	VERTICAL	303	249	Peak

Item 5, 6 are the fundamental frequency at 5510 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 110

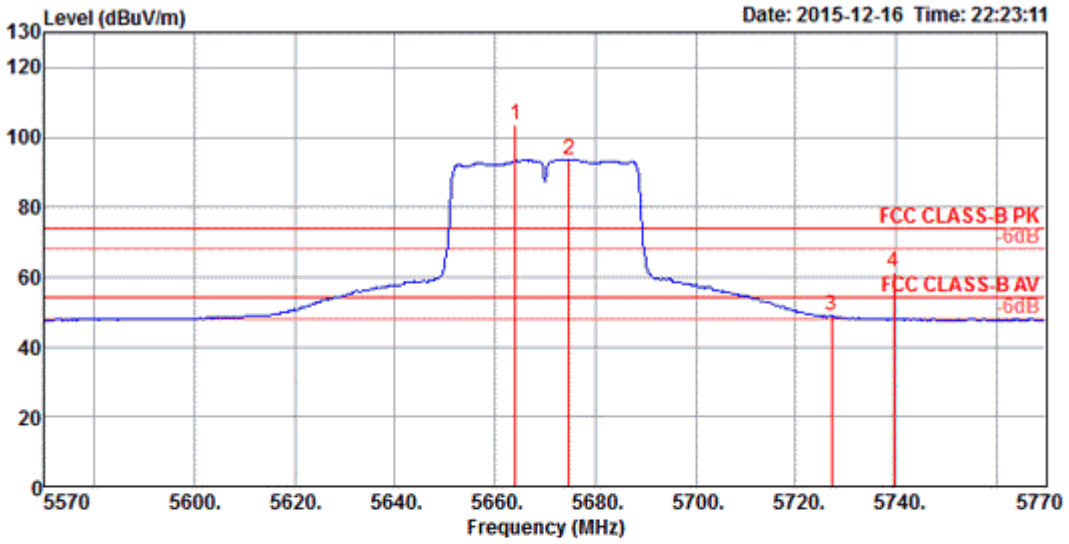


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5459.20	47.67	54.00	-6.33	41.02	7.81	32.92	31.76	VERTICAL	250	251	Average
2	5460.00	57.84	74.00	-16.16	51.19	7.81	32.92	31.76	VERTICAL	250	251	Peak
3	5468.80	60.64	74.00	-13.36	53.96	7.82	32.92	31.78	VERTICAL	250	251	Peak
4	5470.00	47.72	54.00	-6.28	41.04	7.82	32.92	31.78	VERTICAL	250	251	Average
5	5545.20	103.87			97.09	7.86	32.94	31.86	VERTICAL	250	251	Peak
6	5546.80	93.19			86.41	7.86	32.94	31.86	VERTICAL	250	251	Average

Item 5, 6 are the fundamental frequency at 5550 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 134

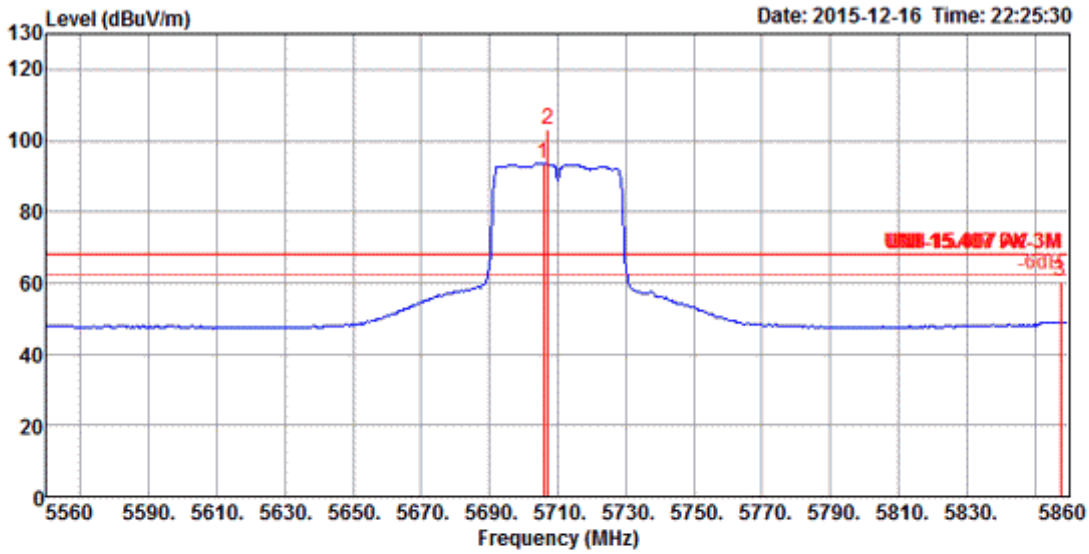


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5664.00	103.64			96.65	7.97	32.98	32.00	VERTICAL	270	247	Peak
2	5674.80	93.71			86.69	7.99	32.99	32.02	VERTICAL	270	247	Average
3	5727.20	48.94	54.00	-5.06	41.83	8.04	33.01	32.08	VERTICAL	270	247	Average
4	5739.60	61.22	74.00	-12.78	54.07	8.06	33.01	32.10	VERTICAL	270	247	Peak

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 142



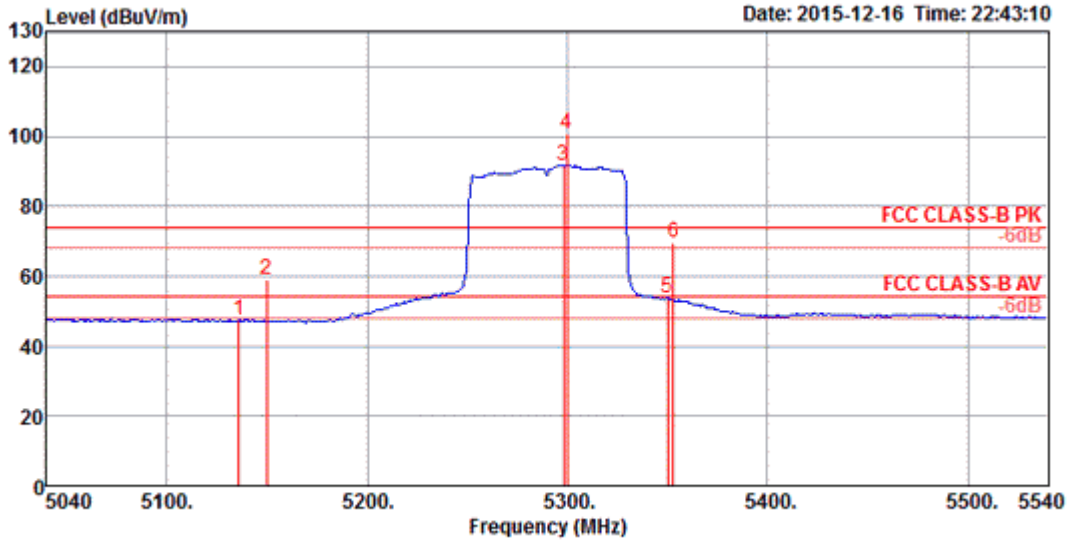
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5705.80	93.32			86.24	8.02	33.00	32.06	VERTICAL	159	248	Average
2	5707.00	103.34			96.26	8.02	33.00	32.06	VERTICAL	159	248	Peak
3	5857.60	60.39	68.20	-7.81	53.01	8.19	33.05	32.24	VERTICAL	159	248	Peak

Item 1, 2 are the fundamental frequency at 5710MHz

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58, 106, 138 / Chain 1

Channel 58

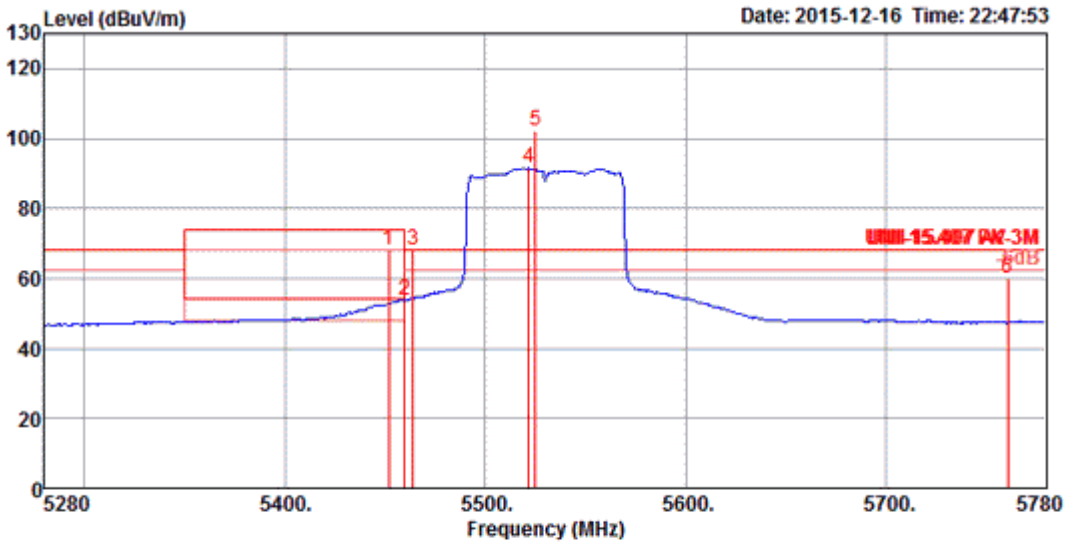


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5136.00	47.55	54.00	-6.45	41.20	7.78	32.94	31.51	VERTICAL	146	231	Average
2	5150.00	58.83	74.00	-15.17	52.47	7.78	32.94	31.52	VERTICAL	146	231	Peak
3	5298.00	91.73			85.25	7.77	32.93	31.64	VERTICAL	146	231	Average
4	5300.00	100.89			94.41	7.77	32.93	31.64	VERTICAL	146	231	Peak
5	5350.00	53.69	54.00	-0.31	47.17	7.77	32.93	31.68	VERTICAL	146	231	Average
6	5353.00	69.54	74.00	-4.46	63.02	7.77	32.93	31.68	VERTICAL	146	231	Peak

Item 3, 4 are the fundamental frequency at 5290 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 106

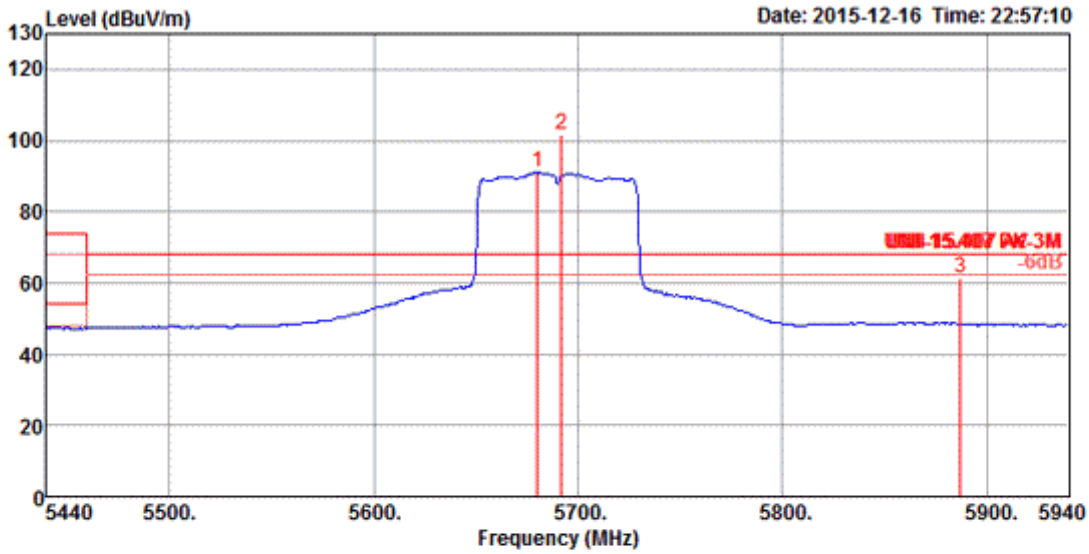


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5452.00	68.23	74.00	-5.77	61.58	7.81	32.92	31.76	VERTICAL	260	224	Peak
2	5460.00	53.79	54.00	-0.21	47.14	7.81	32.92	31.76	VERTICAL	260	224	Average
3	5464.00	68.12	68.20	-0.08	61.44	7.82	32.92	31.78	VERTICAL	260	224	Peak
4	5522.00	91.40			84.67	7.84	32.93	31.82	VERTICAL	260	224	Average
5	5525.00	102.20			95.47	7.84	32.93	31.82	VERTICAL	260	224	Peak
6	5761.00	60.10	68.20	-8.10	52.92	8.08	33.02	32.12	VERTICAL	260	224	Peak

Item 4, 5 are the fundamental frequency at 5530 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 138



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	T/Pos	A/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		deg	cm	
1	5680.00	90.92			83.90	7.99	32.99	32.02	VERTICAL	160	227	Average
2	5692.00	101.49			94.44	8.01	33.00	32.04	VERTICAL	160	227	Peak
3	5887.00	61.34	68.20	-6.86	53.94	8.21	33.07	32.26	VERTICAL	160	227	Peak

Item 1, 2 are the fundamental frequency at 5690MHz

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

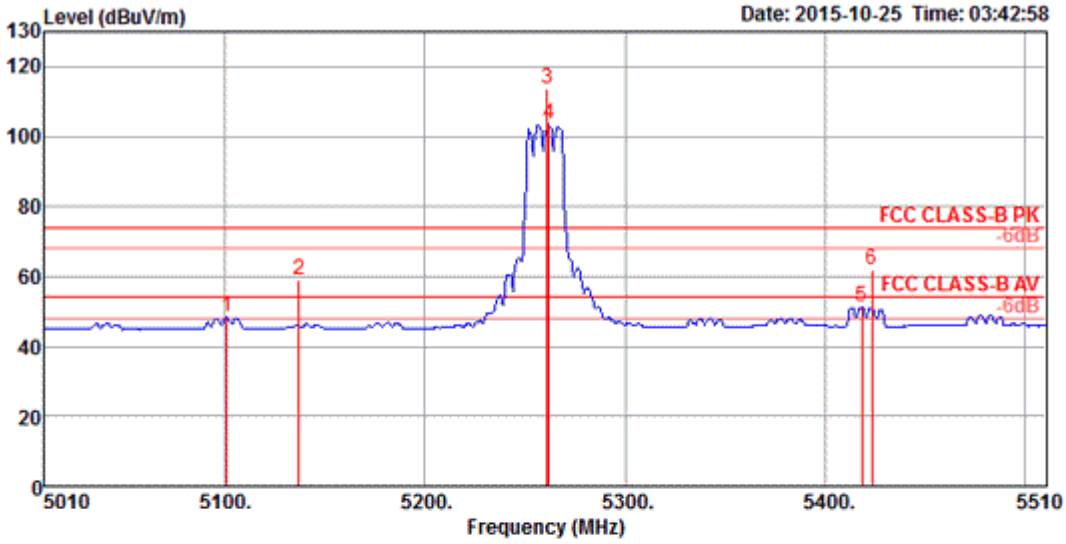
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

<For 2TX>

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2

Channel 52

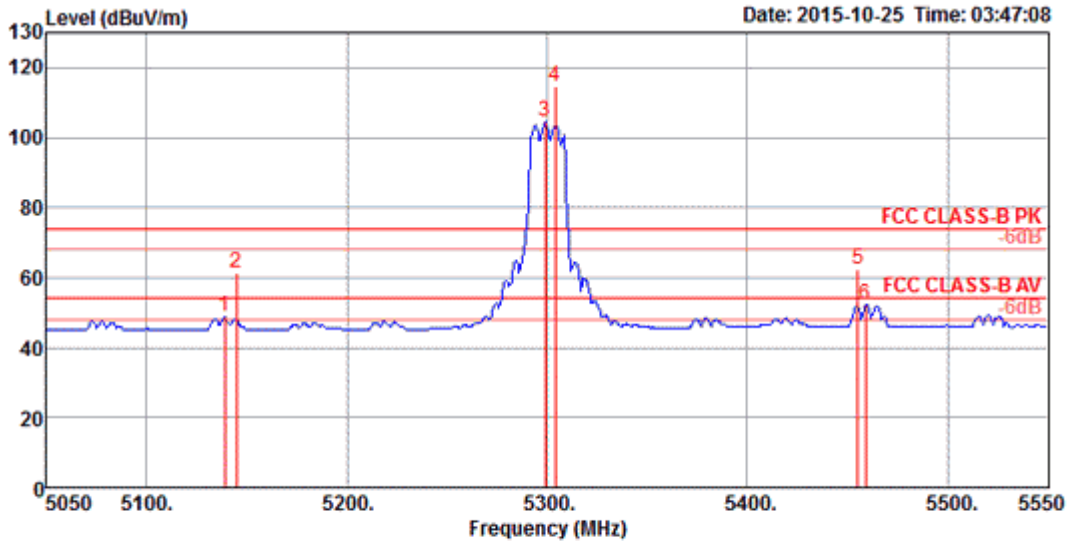


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5101.00	48.23	54.00	-5.77	41.91	7.78	32.94	31.48	VERTICAL	196	128	Average
2	5137.00	58.90	74.00	-15.10	52.55	7.78	32.94	31.51	VERTICAL	196	128	Peak
3	5261.00	113.78			107.33	7.77	32.93	31.61	VERTICAL	196	128	Peak
4	5262.00	103.59			97.14	7.77	32.93	31.61	VERTICAL	196	128	Average
5	5418.00	51.18	54.00	-2.82	44.59	7.77	32.92	31.74	VERTICAL	196	128	Average
6	5423.00	61.95	74.00	-12.05	55.36	7.77	32.92	31.74	VERTICAL	196	128	Peak

Item 3, 4 are the fundamental frequency at 5260 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 60

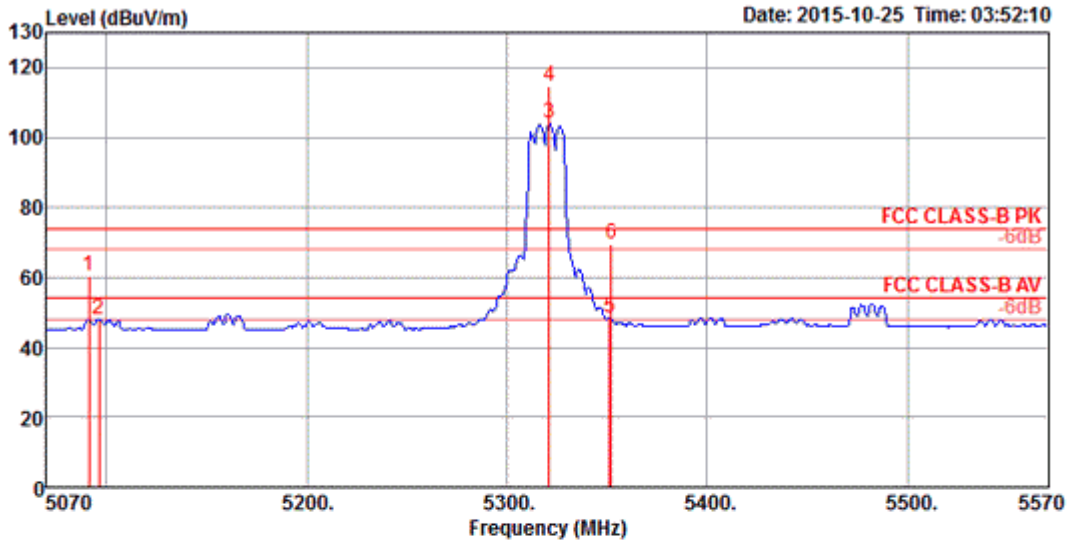


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5139.00	48.71	54.00	-5.29	42.36	7.78	32.94	31.51	VERTICAL	201	318	Average
2	5145.00	61.47	74.00	-12.53	55.11	7.78	32.94	31.52	VERTICAL	201	318	Peak
3	5299.00	104.39			97.91	7.77	32.93	31.64	VERTICAL	201	318	Average
4	5304.00	114.57			108.09	7.77	32.93	31.64	VERTICAL	201	318	Peak
5	5455.00	62.28	74.00	-11.72	55.67	7.77	32.92	31.76	VERTICAL	201	318	Peak
6	5459.00	52.42	54.00	-1.58	45.81	7.77	32.92	31.76	VERTICAL	201	318	Average

Item 3, 4 are the fundamental frequency at 5300 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 64



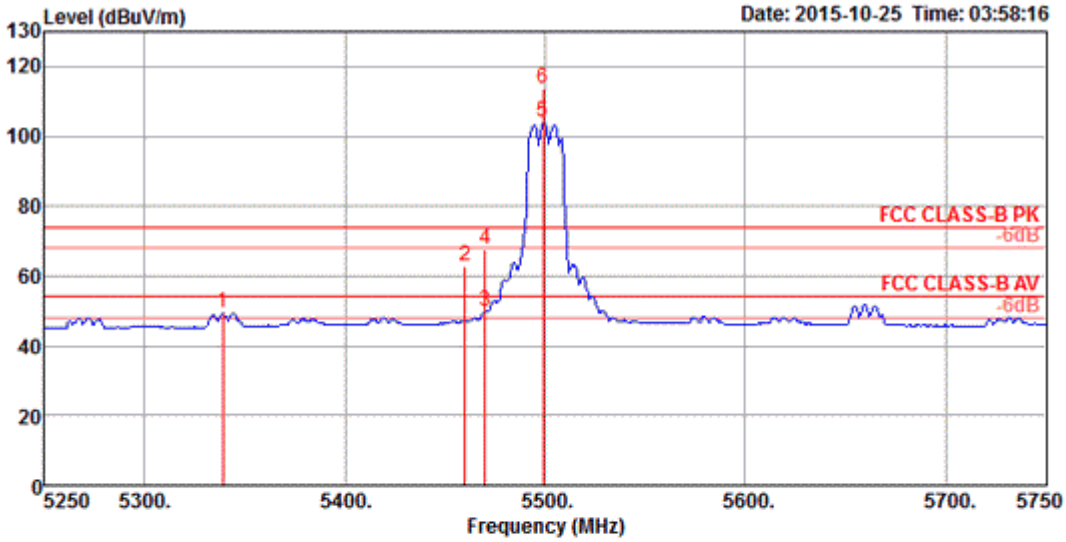
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5091.00	60.48	74.00	-13.52	54.17	7.78	32.94	31.47	VERTICAL	203	183	Peak
2	5096.00	48.16	54.00	-5.84	41.85	7.78	32.94	31.47	VERTICAL	203	183	Average
3	5321.00	104.13			97.64	7.77	32.93	31.65	VERTICAL	203	183	Average
4	5321.00	114.42			107.93	7.77	32.93	31.65	VERTICAL	203	183	Peak
5	5351.00	48.65	54.00	-5.35	42.13	7.77	32.93	31.68	VERTICAL	203	183	Average
6	5352.00	69.49	74.00	-4.51	62.97	7.77	32.93	31.68	VERTICAL	203	183	Peak

Item 3, 4 are the fundamental frequency at 5320 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25℃	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11a CH 100, 116, 140, 144 / Chain 1 + Chain 2

Channel 100

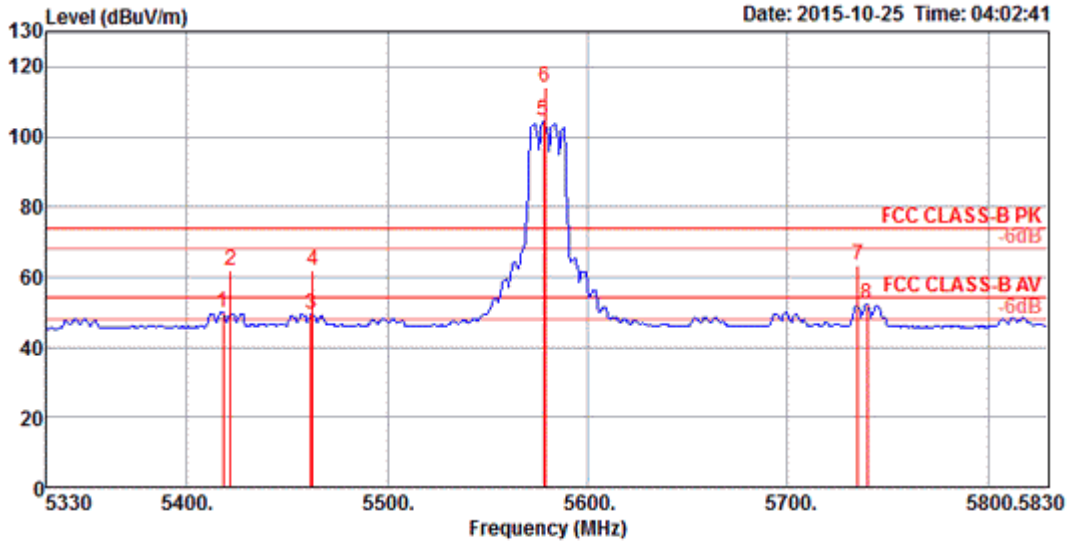


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5339.00	49.32	54.00	-4.68	42.80	7.77	32.93	31.68	VERTICAL	205	319	Average
2	5460.00	62.79	74.00	-11.21	56.18	7.77	32.92	31.76	VERTICAL	205	319	Peak
3	5470.00	49.86	54.00	-4.14	43.23	7.77	32.92	31.78	VERTICAL	205	319	Average
4	5470.00	67.81	74.00	-6.19	61.18	7.77	32.92	31.78	VERTICAL	205	319	Peak
5	5499.00	104.07			97.42	7.77	32.92	31.80	VERTICAL	205	319	Average
6	5499.00	113.60			106.95	7.77	32.92	31.80	VERTICAL	205	319	Peak

Item 5, 6 are the fundamental frequency at 5500 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 116

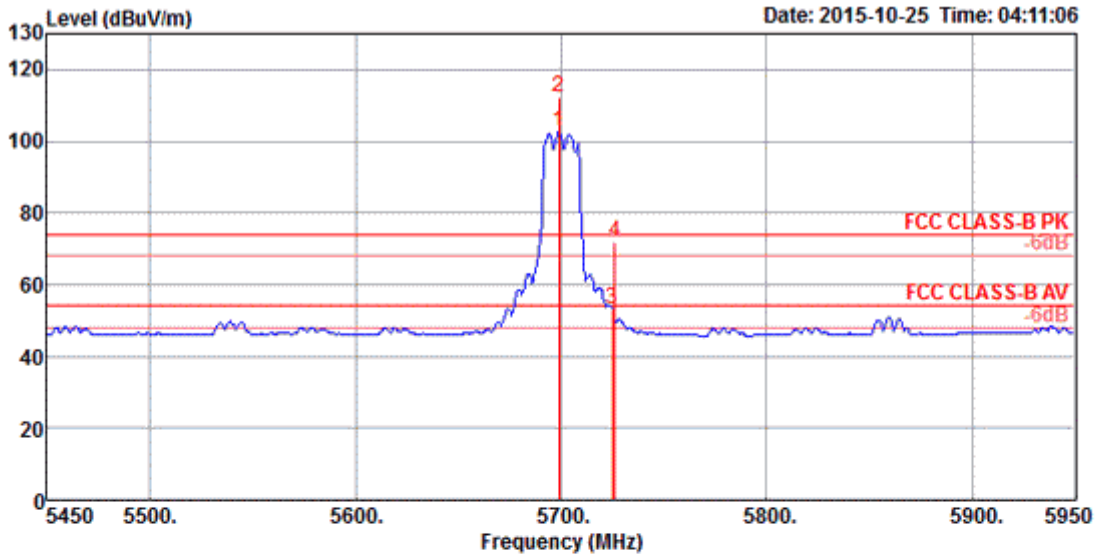


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5418.00	49.93	54.00	-4.07	43.34	7.77	32.92	31.74	VERTICAL	198	128	Average
2	5422.00	61.82	74.00	-12.18	55.23	7.77	32.92	31.74	VERTICAL	198	128	Peak
3	5462.00	49.23	54.00	-4.77	42.62	7.77	32.92	31.76	VERTICAL	198	128	Average
4	5463.00	61.72	74.00	-12.28	55.11	7.77	32.92	31.76	VERTICAL	198	128	Peak
5	5578.00	104.74			97.92	7.87	32.95	31.90	VERTICAL	198	128	Average
6	5579.00	113.94			107.13	7.87	32.96	31.90	VERTICAL	198	128	Peak
7	5735.00	63.19	74.00	-10.81	56.09	8.03	33.01	32.08	VERTICAL	198	128	Peak
8	5740.00	52.40	54.00	-1.60	45.25	8.06	33.01	32.10	VERTICAL	198	128	Average

Item 5, 6 are the fundamental frequency at 5580 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 140

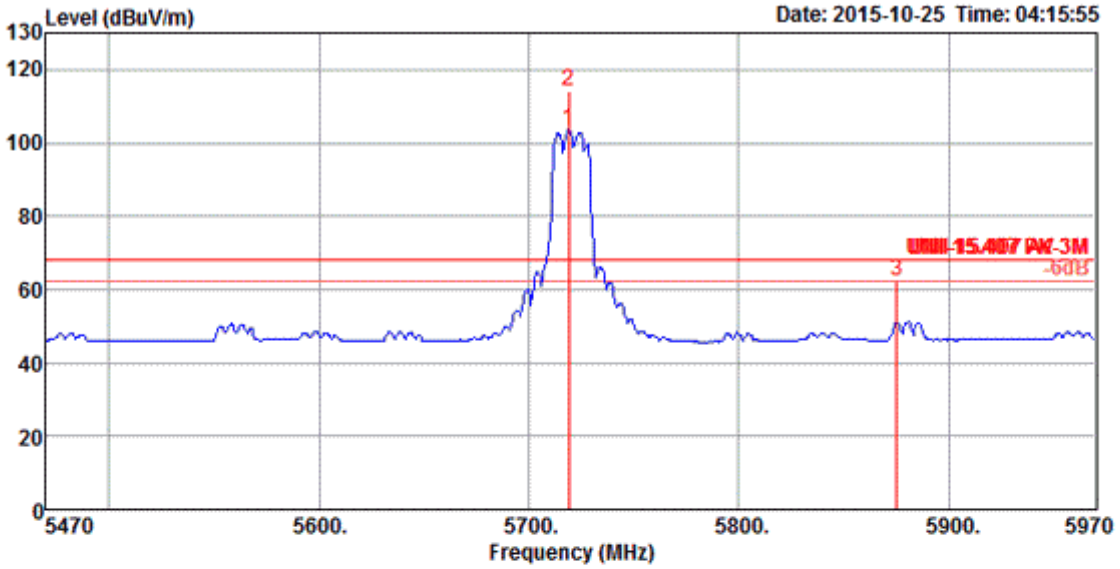


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5699.00	102.68			95.65	7.99	33.00	32.04	VERTICAL	198	253	Average
2	5699.00	112.46			105.43	7.99	33.00	32.04	VERTICAL	198	253	Peak
3	5725.00	53.22	54.00	-0.78	46.11	8.03	33.00	32.08	VERTICAL	198	253	Average
4	5726.00	72.05	74.00	-1.95	64.94	8.03	33.00	32.08	VERTICAL	198	253	Peak

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 144



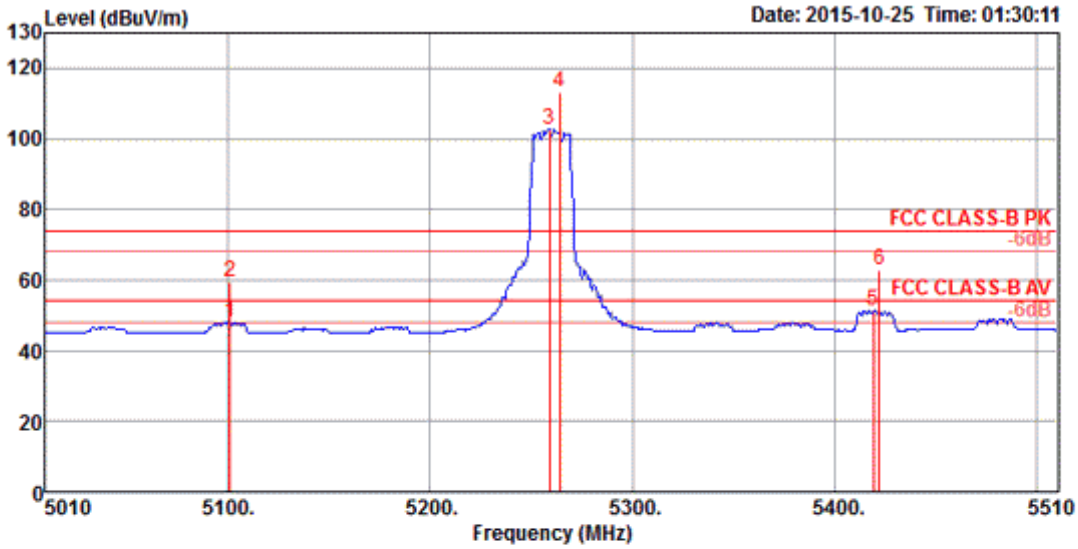
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5719.00	103.82			96.73	8.03	33.00	32.06	VERTICAL	201	128	Average
2	5719.00	114.04			106.95	8.03	33.00	32.06	VERTICAL	201	128	Peak
3	5875.00	62.44	68.20	-5.76	55.04	8.20	33.06	32.26	VERTICAL	201	128	Peak

Item 1, 2 are the fundamental frequency at 5270MHz

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2

Channel 52

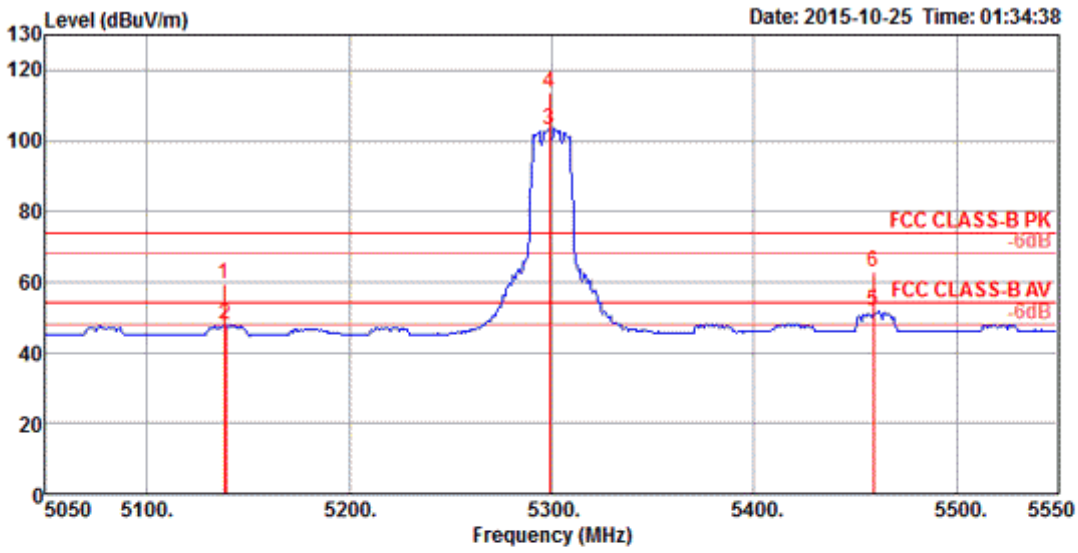


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5101.00	48.09	54.00	-5.91	41.77	7.78	32.94	31.48	VERTICAL	198	146	Average
2	5101.00	59.42	74.00	-14.58	53.10	7.78	32.94	31.48	VERTICAL	198	146	Peak
3	5259.00	102.69			96.24	7.77	32.93	31.61	VERTICAL	198	146	Average
4	5264.00	113.29			106.83	7.77	32.93	31.62	VERTICAL	198	146	Peak
5	5419.00	51.55	54.00	-2.45	44.96	7.77	32.92	31.74	VERTICAL	198	146	Average
6	5422.00	62.97	74.00	-11.03	56.38	7.77	32.92	31.74	VERTICAL	198	146	Peak

Item 3, 4 are the fundamental frequency at 5260 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 60

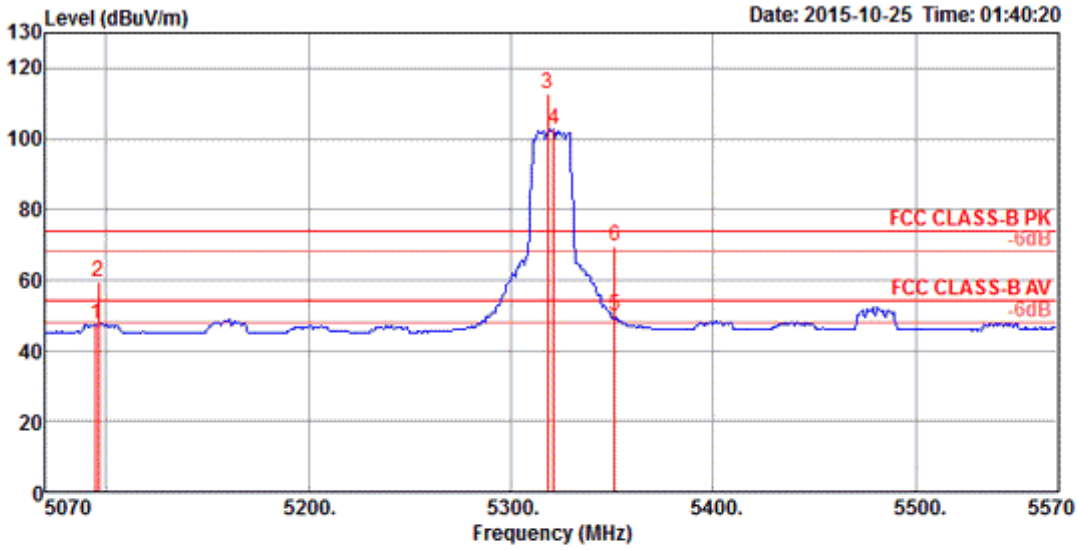


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5138.00	59.60	74.00	-14.40	53.25	7.78	32.94	31.51	VERTICAL	200	310	Peak
2	5139.00	48.02	54.00	-5.98	41.67	7.78	32.94	31.51	VERTICAL	200	310	Average
3	5299.00	103.27			96.79	7.77	32.93	31.64	VERTICAL	200	310	Average
4	5299.00	113.79			107.31	7.77	32.93	31.64	VERTICAL	200	310	Peak
5	5459.00	51.65	54.00	-2.35	45.04	7.77	32.92	31.76	VERTICAL	200	310	Average
6	5459.00	62.65	74.00	-11.35	56.04	7.77	32.92	31.76	VERTICAL	200	310	Peak

Item 3, 4 are the fundamental frequency at 5300 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 64



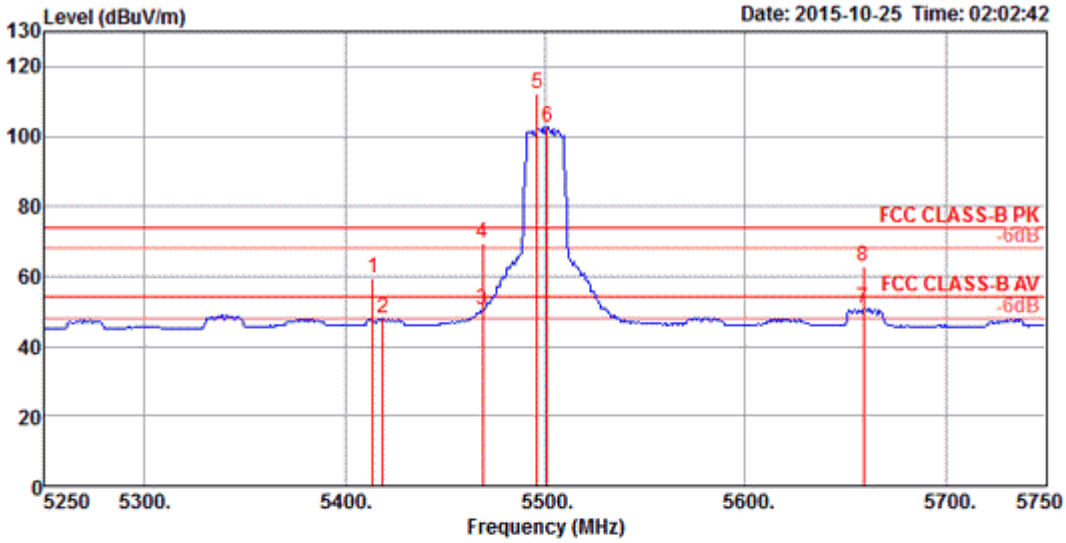
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5095.00	47.39	54.00	-6.61	41.08	7.78	32.94	31.47	VERTICAL	202	307	Average
2	5096.00	59.37	74.00	-14.63	53.06	7.78	32.94	31.47	VERTICAL	202	307	Peak
3	5318.00	112.97			106.48	7.77	32.93	31.65	VERTICAL	202	307	Peak
4	5321.00	102.79			96.30	7.77	32.93	31.65	VERTICAL	202	307	Average
5	5351.00	49.76	54.00	-4.24	43.24	7.77	32.93	31.68	VERTICAL	202	307	Average
6	5351.00	69.69	74.00	-4.31	63.17	7.77	32.93	31.68	VERTICAL	202	307	Peak

Item 3, 4 are the fundamental frequency at 5320 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140, 144 / Chain 1 + Chain 2

Channel 100

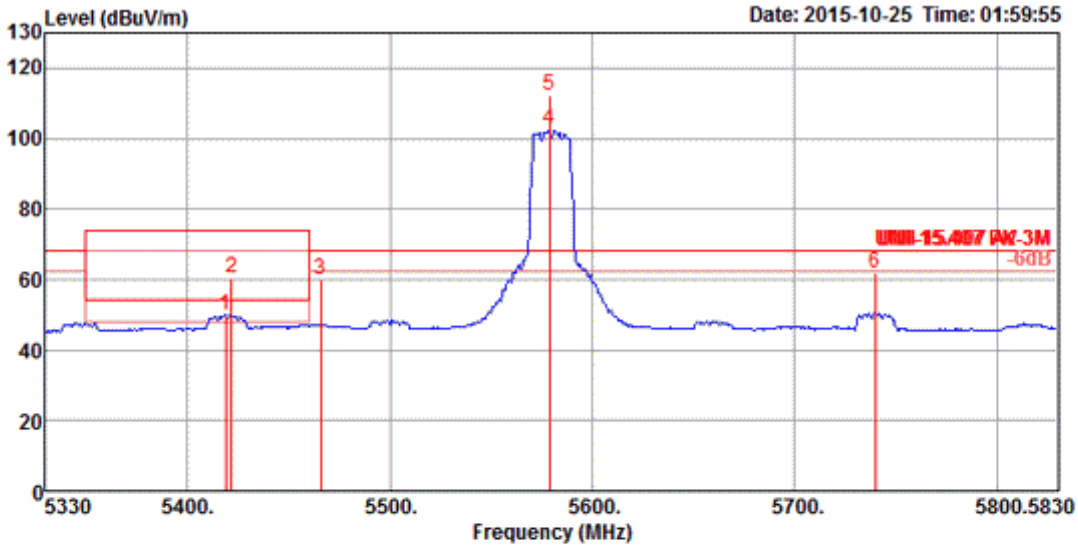


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5414.00	59.62	74.00	-14.38	53.05	7.77	32.93	31.73	VERTICAL	200	195	Peak
2	5419.00	47.74	54.00	-6.26	41.15	7.77	32.92	31.74	VERTICAL	200	195	Average
3	5469.00	50.41	54.00	-3.59	43.78	7.77	32.92	31.78	VERTICAL	200	195	Average
4	5469.00	69.74	74.00	-4.26	63.11	7.77	32.92	31.78	VERTICAL	200	195	Peak
5	5496.00	112.33			105.68	7.77	32.92	31.80	VERTICAL	200	195	Peak
6	5501.00	102.55			95.90	7.77	32.92	31.80	VERTICAL	200	195	Average
7	5659.00	50.93	54.00	-3.07	43.96	7.95	32.98	32.00	VERTICAL	200	195	Average
8	5659.00	62.61	74.00	-11.39	55.64	7.95	32.98	32.00	VERTICAL	200	195	Peak

Item 5, 6 are the fundamental frequency at 5500 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 116

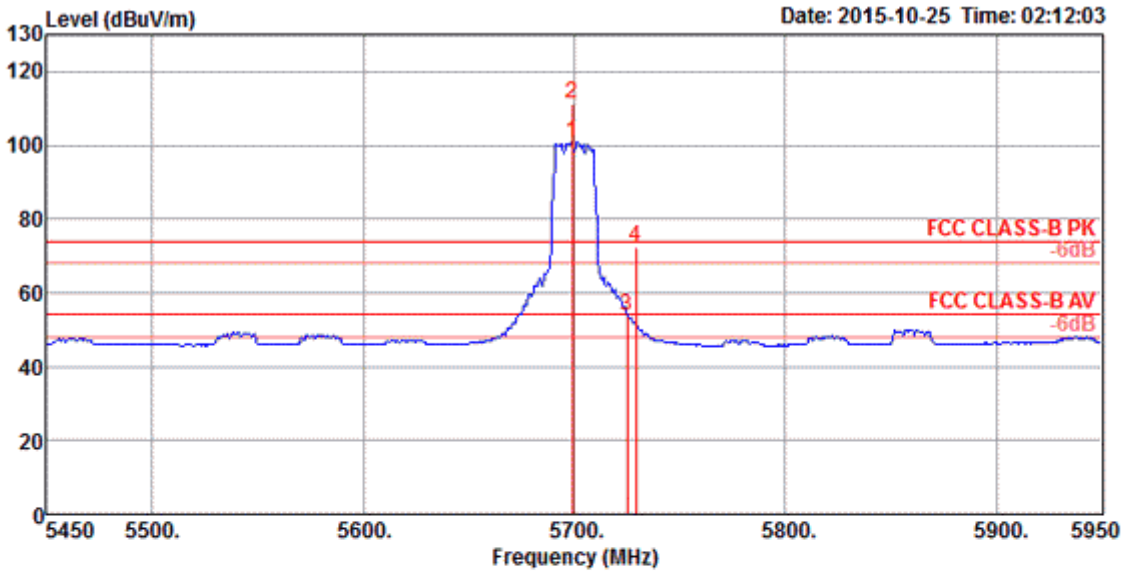


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5419.00	49.82	54.00	-4.18	43.23	7.77	32.92	31.74	VERTICAL	200	195	Average
2	5422.00	60.48	74.00	-13.52	53.89	7.77	32.92	31.74	VERTICAL	200	195	Peak
3	5466.00	59.94	68.20	-8.26	53.31	7.77	32.92	31.78	VERTICAL	200	195	Peak
4	5579.00	102.50			95.69	7.87	32.96	31.90	VERTICAL	200	195	Average
5	5579.00	112.48			105.67	7.87	32.96	31.90	VERTICAL	200	195	Peak
6	5740.00	61.80	68.20	-6.40	54.65	8.06	33.01	32.10	VERTICAL	200	195	Peak

Item 4, 5 are the fundamental frequency at 5580 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 140

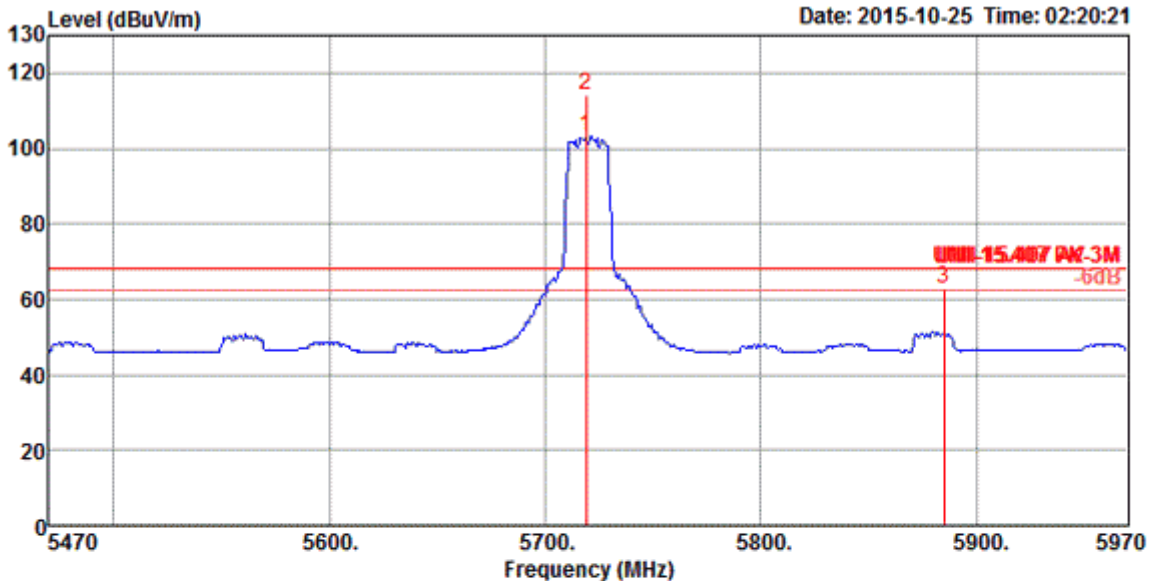


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5699.00	100.87			93.84	7.99	33.00	32.04	VERTICAL	200	48	Average
2	5699.00	111.51			104.48	7.99	33.00	32.04	VERTICAL	200	48	Peak
3	5725.00	53.68	54.00	-0.32	46.57	8.03	33.00	32.08	VERTICAL	200	48	Average
4	5729.00	72.22	74.00	-1.78	65.12	8.03	33.01	32.08	VERTICAL	200	48	Peak

Item 1, 2 are the fundamental frequency at 5700 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 144



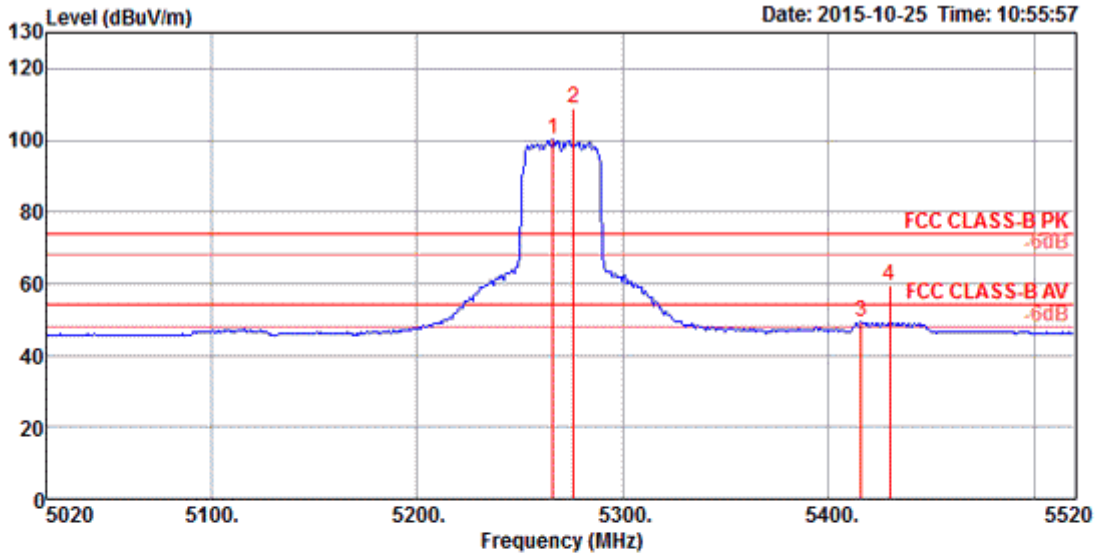
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5719.00	103.10			96.01	8.03	33.00	32.06	VERTICAL	300	1	Average
2	5719.00	114.20			107.11	8.03	33.00	32.06	VERTICAL	300	1	Peak
3	5885.00	62.76	68.20	-5.44	55.35	8.22	33.07	32.26	VERTICAL	300	1	Peak

Item 1, 2 are the fundamental frequency at 5270MHz

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2

Channel 54

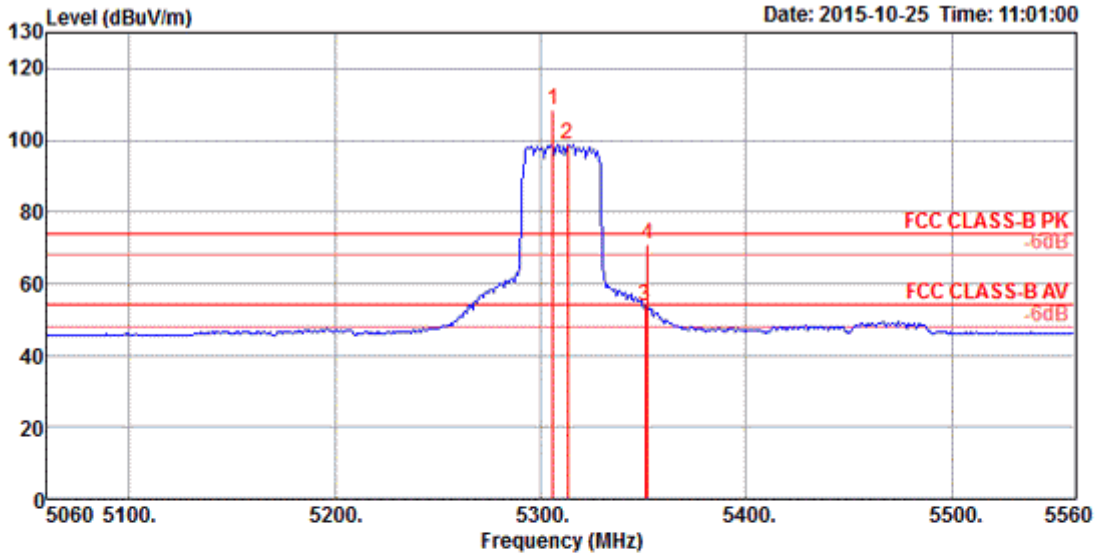


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5266.00	100.14			93.68	7.77	32.93	31.62	VERTICAL	200	309	Average
2	5276.00	109.08			102.62	7.77	32.93	31.62	VERTICAL	200	309	Peak
3	5416.00	49.24	54.00	-4.76	42.67	7.77	32.93	31.73	VERTICAL	200	309	Average
4	5430.00	59.42	74.00	-14.58	52.83	7.77	32.92	31.74	VERTICAL	200	309	Peak

Item 1, 2 are the fundamental frequency at 5270 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 62



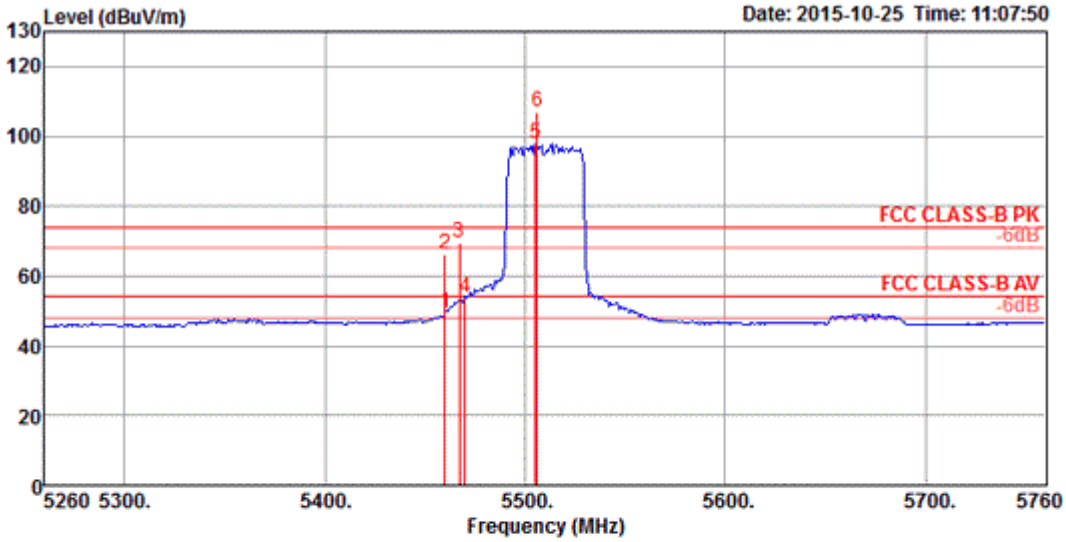
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5306.00	108.30			101.82	7.77	32.93	31.64	VERTICAL	200	131	Peak
2	5313.00	98.83			92.34	7.77	32.93	31.65	VERTICAL	200	131	Average
3	5351.00	53.78	54.00	-0.22	47.26	7.77	32.93	31.68	VERTICAL	200	131	Average
4	5352.00	70.98	74.00	-3.02	64.46	7.77	32.93	31.68	VERTICAL	200	131	Peak

Item 1, 2 are the fundamental frequency at 5310 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134, 144 / Chain 1 + Chain 2

Channel 102

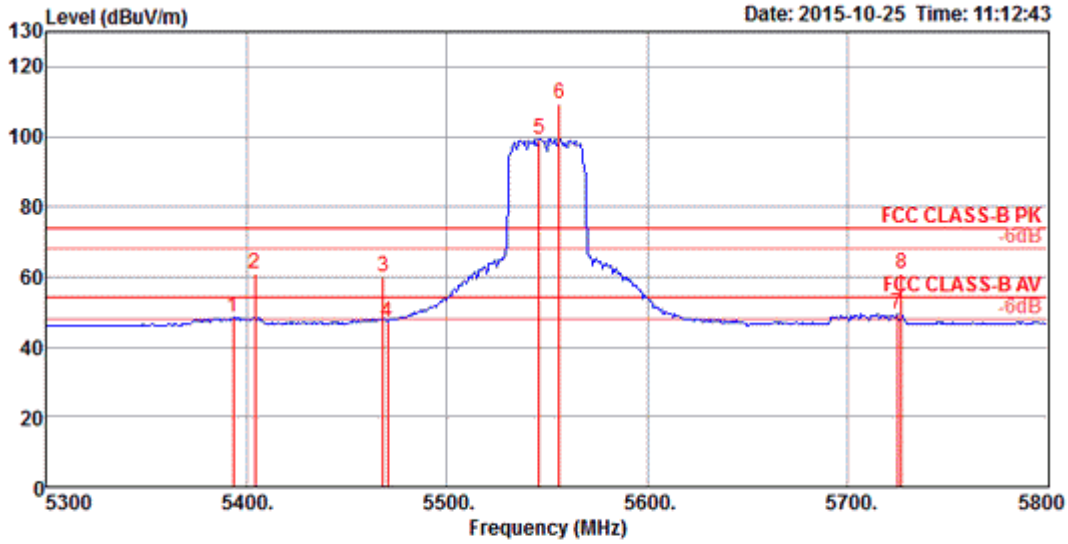


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5460.00	49.63	54.00	-4.37	43.02	7.77	32.92	31.76	VERTICAL	200	113	Average
2	5460.00	66.30	74.00	-7.70	59.69	7.77	32.92	31.76	VERTICAL	200	113	Peak
3	5467.00	69.64	74.00	-4.36	63.01	7.77	32.92	31.78	VERTICAL	200	113	Peak
4	5470.00	53.87	54.00	-0.13	47.24	7.77	32.92	31.78	VERTICAL	200	113	Average
5	5505.00	97.86			91.19	7.79	32.92	31.80	VERTICAL	200	113	Average
6	5506.00	107.02			100.36	7.79	32.93	31.80	VERTICAL	200	113	Peak

Item 5, 6 are the fundamental frequency at 5510 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 110

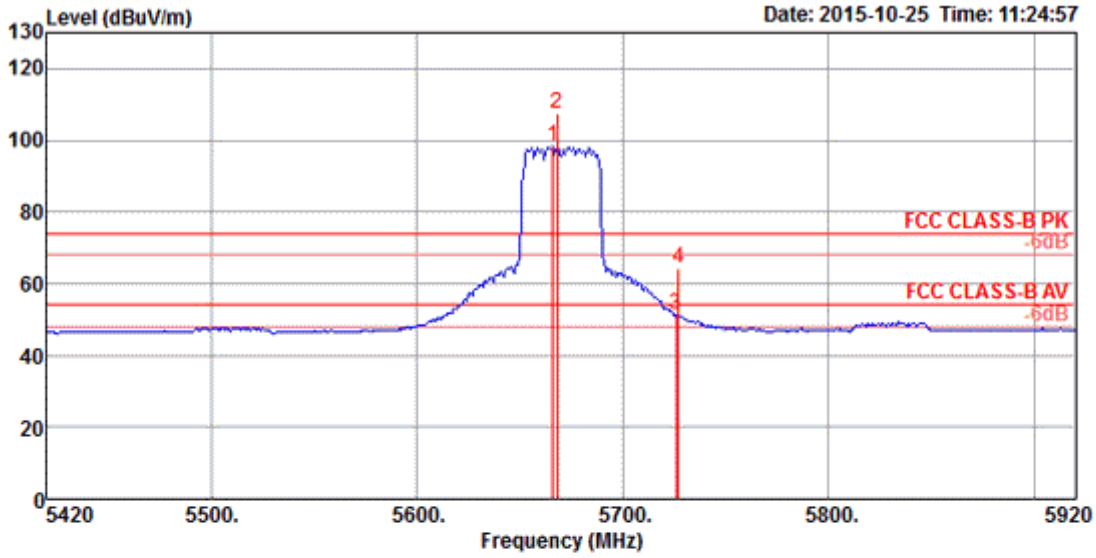


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5393.00	48.62	54.00	-5.38	42.06	7.77	32.93	31.72	VERTICAL	200	51	Average
2	5404.00	60.78	74.00	-13.22	54.21	7.77	32.93	31.73	VERTICAL	200	51	Peak
3	5468.00	60.13	74.00	-13.87	53.50	7.77	32.92	31.78	VERTICAL	200	51	Peak
4	5470.00	47.11	54.00	-6.89	40.48	7.77	32.92	31.78	VERTICAL	200	51	Average
5	5546.00	99.52			92.77	7.83	32.94	31.86	VERTICAL	200	51	Average
6	5556.00	109.26			102.49	7.85	32.94	31.86	VERTICAL	200	51	Peak
7	5725.00	49.26	54.00	-4.74	42.15	8.03	33.00	32.08	VERTICAL	200	51	Average
8	5727.00	60.72	74.00	-13.28	53.62	8.03	33.01	32.08	VERTICAL	200	51	Peak

Item 5, 6 are the fundamental frequency at 5550 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 134

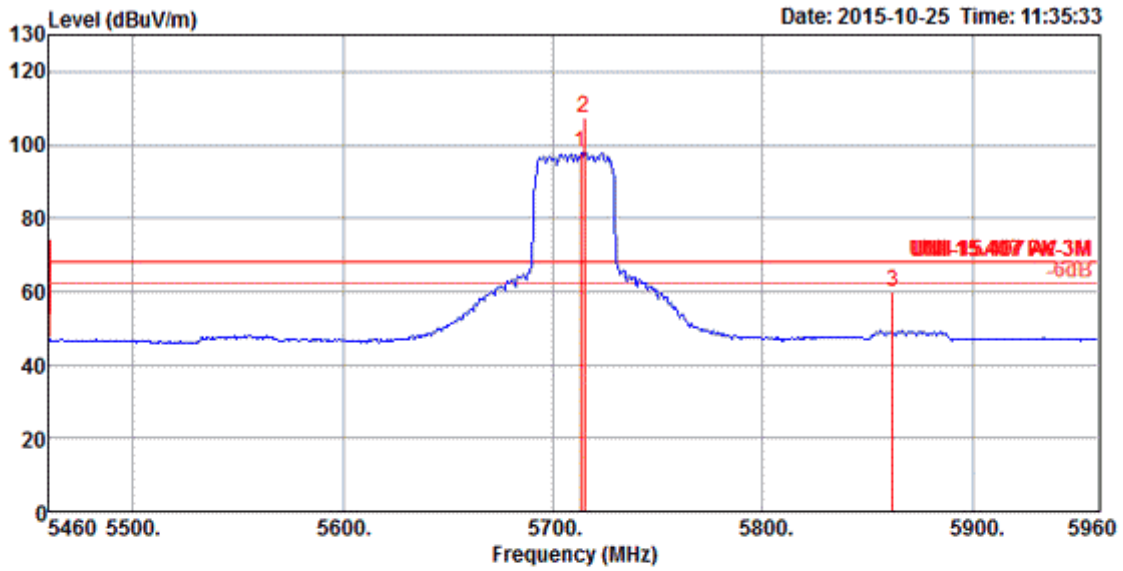


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5666.00	98.45			91.46	7.97	32.98	32.00	VERTICAL	200	137	Average
2	5668.00	107.61			100.62	7.97	32.98	32.00	VERTICAL	200	137	Peak
3	5726.00	51.24	54.00	-2.76	44.13	8.03	33.00	32.08	VERTICAL	200	137	Average
4	5727.00	64.26	74.00	-9.74	57.16	8.03	33.01	32.08	VERTICAL	200	137	Peak

Item 1, 2 are the fundamental frequency at 5670 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 142



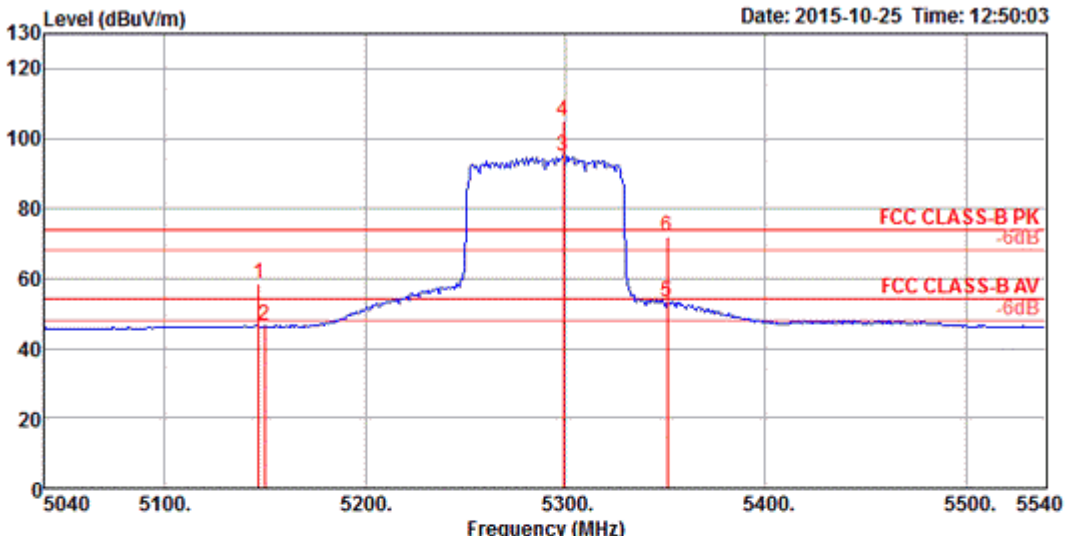
	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5713.00	97.82			90.75	8.01	33.00	32.06	VERTICAL	200	137	Average
2	5715.00	107.59			100.52	8.01	33.00	32.06	VERTICAL	200	137	Peak
3	5862.00	60.03	68.20	-8.17	52.65	8.20	33.06	32.24	VERTICAL	200	137	Peak

Item 1, 2 are the fundamental frequency at 5710MHz

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Temperature	25°C	Humidity	59%
Test Engineer	Peter Wu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58, 106, 138 / Chain 1 + Chain 2

Channel 58

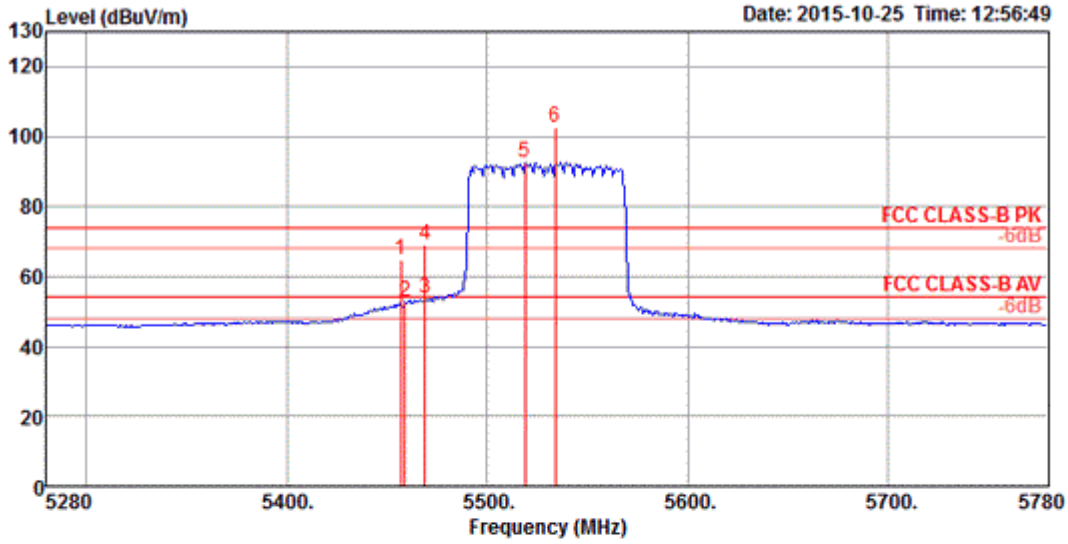


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5147.00	58.70	74.00	-15.30	52.34	7.78	32.94	31.52	VERTICAL	200	165	Peak
2	5150.00	46.44	54.00	-7.56	40.08	7.78	32.94	31.52	VERTICAL	200	165	Average
3	5299.00	94.83			88.35	7.77	32.93	31.64	VERTICAL	200	165	Average
4	5299.00	104.91			98.43	7.77	32.93	31.64	VERTICAL	200	165	Peak
5	5351.00	53.29	54.00	-0.71	46.77	7.77	32.93	31.68	VERTICAL	200	165	Average
6	5351.00	72.12	74.00	-1.88	65.60	7.77	32.93	31.68	VERTICAL	200	165	Peak

Item 3, 4 are the fundamental frequency at 5290 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 106

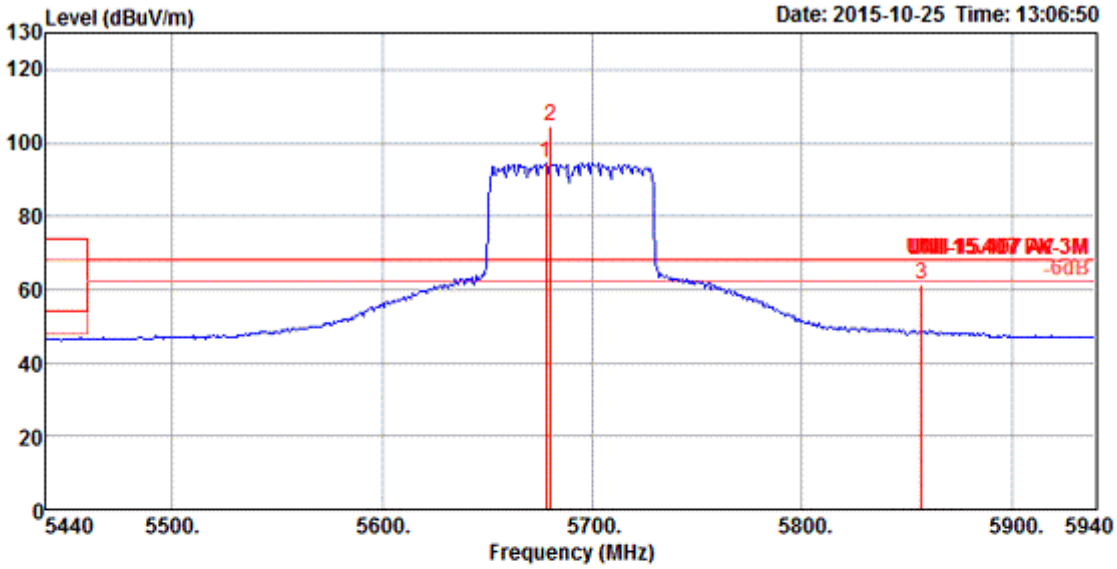


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5457.00	64.71	74.00	-9.29	58.10	7.77	32.92	31.76	VERTICAL	200	317	Peak
2	5459.00	52.72	54.00	-1.28	46.11	7.77	32.92	31.76	VERTICAL	200	317	Average
3	5469.00	53.60	54.00	-0.40	46.97	7.77	32.92	31.78	VERTICAL	200	317	Average
4	5469.00	69.23	74.00	-4.77	62.60	7.77	32.92	31.78	VERTICAL	200	317	Peak
5	5519.00	92.51			85.83	7.79	32.93	31.82	VERTICAL	200	317	Average
6	5534.00	102.67			95.95	7.81	32.93	31.84	VERTICAL	200	317	Peak

Item 5, 6 are the fundamental frequency at 5530 MHz.

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

Channel 138



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	Pol/Phase	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m		cm	deg	
1	5678.00	94.50			87.50	7.97	32.99	32.02	VERTICAL	200	142	Average
2	5680.00	104.63			97.63	7.97	32.99	32.02	VERTICAL	200	142	Peak
3	5857.00	61.36	68.20	-6.84	53.99	8.18	33.05	32.24	VERTICAL	200	142	Peak

Item 1, 2 are the fundamental frequency at 5690MHz

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Note: Both antenna polarizations have been evaluated and only the worst case was tested and recorded in test report.

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

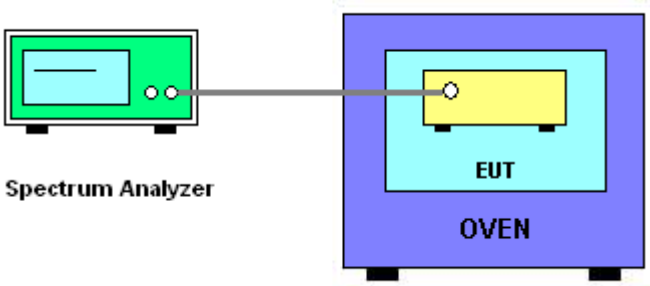
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (IEEE 802.11nspecification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is -20°C~55°C.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Temperature	25°C	Humidity	58%
Test Engineer	Mars Lin	Test Date	Oct. 29, 2015~Dec. 23, 2015

Mode: 20 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9781	5299.9767	5299.9749	5299.9728
110.00	5299.9769	5299.9756	5299.9740	5299.9721
93.50	5299.9755	5299.9744	5299.9732	5299.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.62	4.83	5.06	5.47
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5299.9823	5299.9810	5299.9793	5299.9769
-10	5299.9808	5299.9796	5299.9780	5299.9761
0	5299.9794	5299.9782	5299.9763	5299.9741
10	5299.9781	5299.9768	5299.9753	5299.9735
20	5299.9769	5299.9756	5299.9740	5299.9721
30	5299.9755	5299.9744	5299.9730	5299.9714
40	5299.9739	5299.9724	5299.9708	5299.9688
50	5299.9722	5299.9710	5299.9695	5299.9668
55	5299.9722	5299.9710	5299.9695	5299.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	5.25	5.47	5.75	6.26
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9781	5579.9767	5579.9749	5579.9728
110.00	5579.9769	5579.9756	5579.9740	5579.9721
93.50	5579.9755	5579.9744	5579.9732	5579.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.39	4.59	4.80	5.20
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5579.9823	5579.9810	5579.9793	5579.9769
-10	5579.9808	5579.9796	5579.9780	5579.9761
0	5579.9794	5579.9782	5579.9763	5579.9741
10	5579.9781	5579.9768	5579.9753	5579.9735
20	5579.9769	5579.9756	5579.9740	5579.9721
30	5579.9755	5579.9744	5579.9730	5579.9714
40	5579.9739	5579.9724	5579.9708	5579.9688
50	5579.9722	5579.9710	5579.9695	5579.9668
55	5579.9722	5579.9710	5579.9695	5579.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	4.98	5.20	5.47	5.95
Result	Complies			

Mode: 40 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9781	5309.9767	5309.9749	5309.9728
110.00	5309.9769	5309.9756	5309.9740	5309.9721
93.50	5309.9755	5309.9744	5309.9732	5309.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.61	4.82	5.05	5.46
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5309.9823	5309.9810	5309.9793	5309.9769
-10	5309.9808	5309.9796	5309.9780	5309.9761
0	5309.9794	5309.9782	5309.9763	5309.9741
10	5309.9781	5309.9768	5309.9753	5309.9735
20	5309.9769	5309.9756	5309.9740	5309.9721
30	5309.9755	5309.9744	5309.9730	5309.9714
40	5309.9739	5309.9724	5309.9708	5309.9688
50	5309.9722	5309.9710	5309.9695	5309.9668
55	5309.9722	5309.9710	5309.9695	5309.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	5.24	5.46	5.74	6.25
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9781	5549.9767	5549.9749	5549.9728
110.00	5549.9769	5549.9756	5549.9740	5549.9721
93.50	5549.9755	5549.9744	5549.9732	5549.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.41	4.61	4.83	5.23
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5549.9823	5549.9810	5549.9793	5549.9769
-10	5549.9808	5549.9796	5549.9780	5549.9761
0	5549.9794	5549.9782	5549.9763	5549.9741
10	5549.9781	5549.9768	5549.9753	5549.9735
20	5549.9769	5549.9756	5549.9740	5549.9721
30	5549.9755	5549.9744	5549.9730	5549.9714
40	5549.9739	5549.9724	5549.9708	5549.9688
50	5549.9722	5549.9710	5549.9695	5549.9668
55	5549.9722	5549.9710	5549.9695	5549.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	5.01	5.23	5.50	5.98
Result	Complies			

Mode: 80 MHz / Chain 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9781	5289.9767	5289.9749	5289.9728
110.00	5289.9769	5289.9756	5289.9740	5289.9721
93.50	5289.9755	5289.9744	5289.9732	5289.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.63	4.84	5.07	5.48
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5289.9823	5289.9810	5289.9793	5289.9769
-10	5289.9808	5289.9796	5289.9780	5289.9761
0	5289.9794	5289.9782	5289.9763	5289.9741
10	5289.9781	5289.9768	5289.9753	5289.9735
20	5289.9769	5289.9756	5289.9740	5289.9721
30	5289.9755	5289.9744	5289.9730	5289.9714
40	5289.9739	5289.9724	5289.9708	5289.9688
50	5289.9722	5289.9710	5289.9695	5289.9668
55	5289.9722	5289.9710	5289.9695	5289.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	5.26	5.48	5.77	6.28
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9781	5529.9767	5529.9749	5529.9728
110.00	5529.9769	5529.9756	5529.9740	5529.9721
93.50	5529.9755	5529.9744	5529.9732	5529.9710
Max. Deviation (MHz)	0.0245	0.0256	0.0268	0.0290
Max. Deviation (ppm)	4.43	4.63	4.85	5.24
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5529.9823	5529.9810	5529.9793	5529.9769
-10	5529.9808	5529.9796	5529.9780	5529.9761
0	5529.9794	5529.9782	5529.9763	5529.9741
10	5529.9781	5529.9768	5529.9753	5529.9735
20	5529.9769	5529.9756	5529.9740	5529.9721
30	5529.9755	5529.9744	5529.9730	5529.9714
40	5529.9739	5529.9724	5529.9708	5529.9688
50	5529.9722	5529.9710	5529.9695	5529.9668
55	5529.9722	5529.9710	5529.9695	5529.9668
Max. Deviation (MHz)	0.0278	0.0290	0.0305	0.0332
Max. Deviation (ppm)	5.03	5.24	5.52	6.00
Result	Complies			

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 16, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 25, 2015	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	37880	20MHz ~ 2GHz	Sep. 03, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Feb.10, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410002	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410002	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

"*" Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%