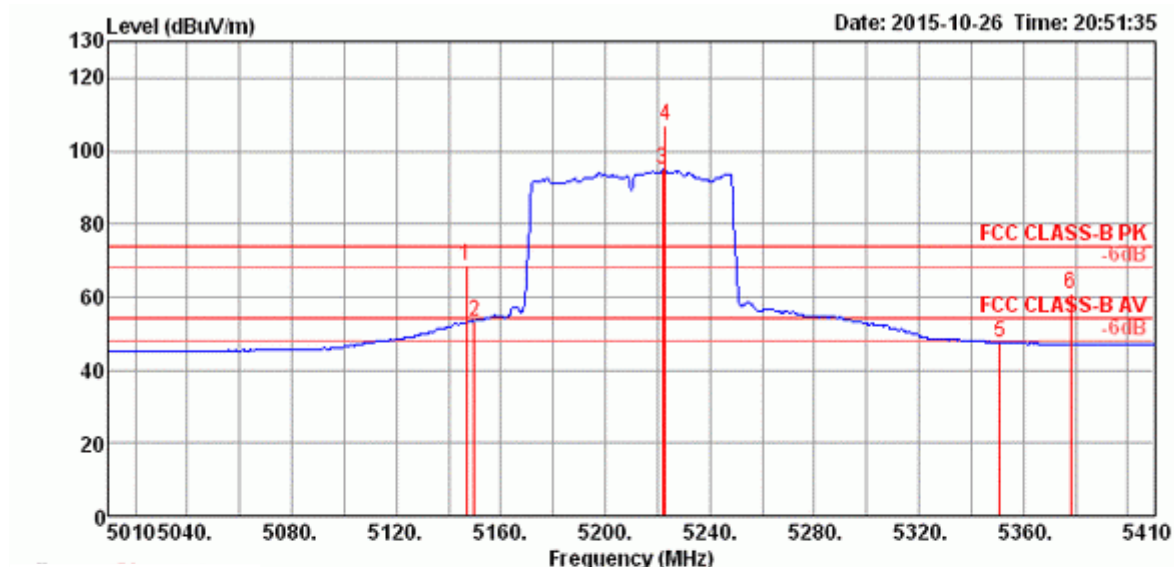


Temperature	26°C	Humidity	57%
Test Engineer	Roku Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 3 / CH 42+138 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 42

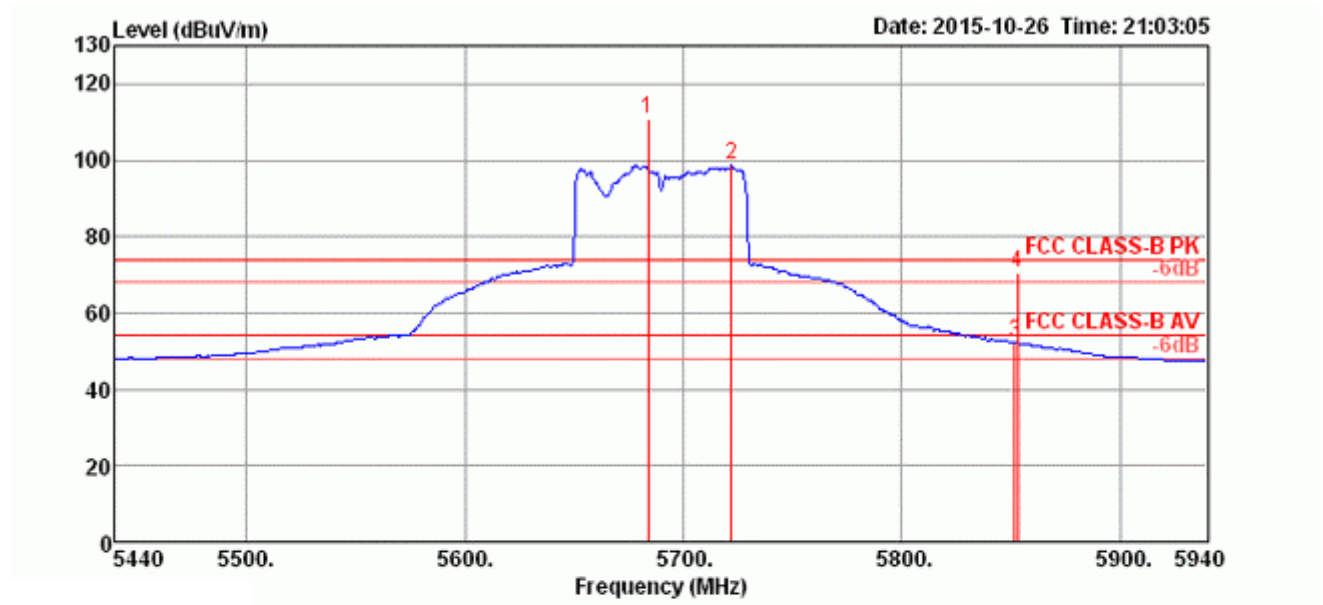


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.80	68.64	74.00	-5.36	61.74	6.21	33.74	33.05	155	288	Peak	HORIZONTAL
2	5150.00	53.35	54.00	-0.65	46.45	6.21	33.74	33.05	155	288	Average	HORIZONTAL
3	5222.00	95.14			88.04	6.30	33.85	33.05	155	288	Average	HORIZONTAL
4	5222.80	106.85			99.75	6.30	33.85	33.05	155	288	Peak	HORIZONTAL
5	5350.80	47.62	54.00	-6.38	40.15	6.47	34.06	33.06	155	288	Average	HORIZONTAL
6	5378.00	60.97	74.00	-13.03	53.42	6.50	34.11	33.06	155	288	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

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

### Channel 138



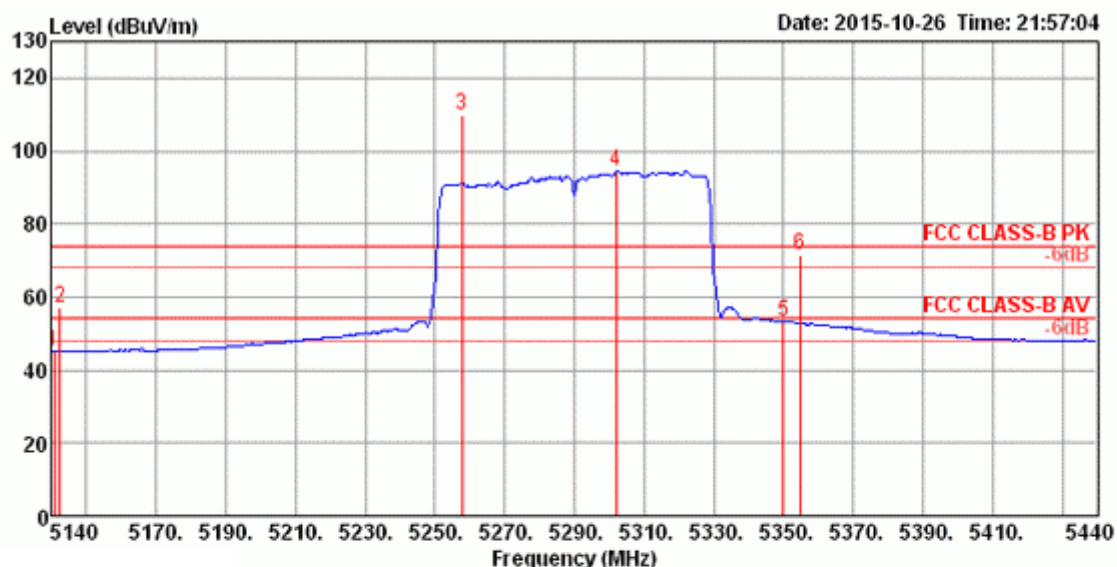
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5684.00	110.93			102.83	6.81	34.41	33.12	214	303	Peak
2	5722.00	98.63			90.50	6.83	34.43	33.13	214	303	Average
3	5852.00	52.21	54.00	-1.79	43.92	6.95	34.51	33.17	214	303	Average
4	5853.00	70.47	74.00	-3.53	62.18	6.95	34.51	33.17	214	303	Peak

Item 1, 2 are the fundamental frequency at 5690 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 4 / CH 58+106 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 58

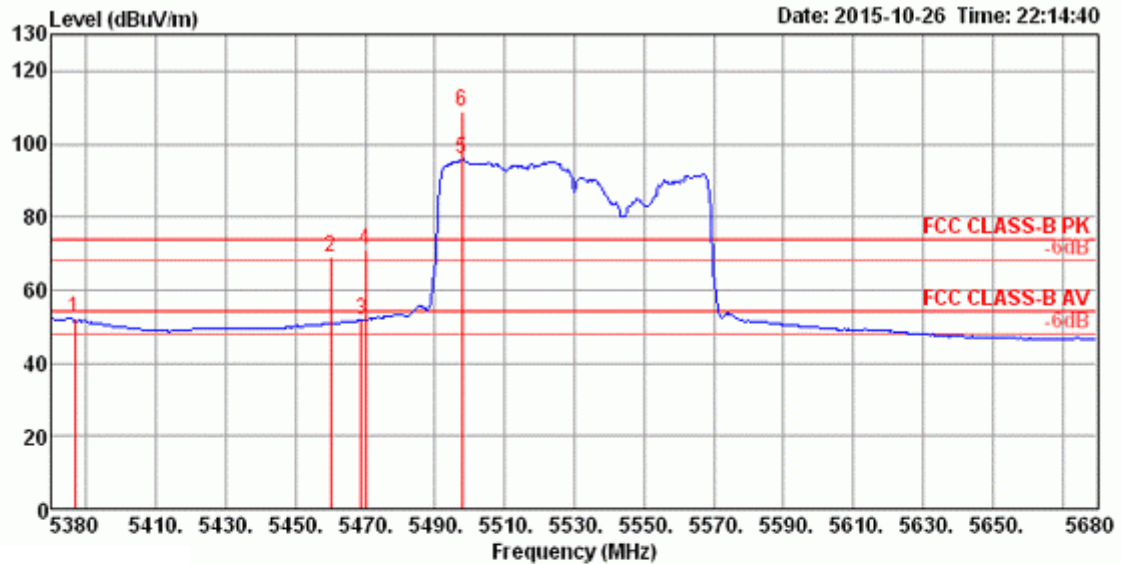


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5140.60	45.07	54.00	-8.93	38.21	6.17	33.74	33.05	154	287	Average	HORIZONTAL
2	5142.40	57.27	74.00	-16.73	50.41	6.17	33.74	33.05	154	287	Peak	HORIZONTAL
3	5257.60	110.07			102.89	6.34	33.90	33.06	154	287	Peak	HORIZONTAL
4	5302.00	94.50			87.18	6.40	33.98	33.06	154	287	Average	HORIZONTAL
5	5350.00	53.20	54.00	-0.80	45.73	6.47	34.06	33.06	154	287	Average	HORIZONTAL
6	5354.80	71.47	74.00	-2.53	64.00	6.47	34.06	33.06	154	287	Peak	HORIZONTAL

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

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

## Channel 106



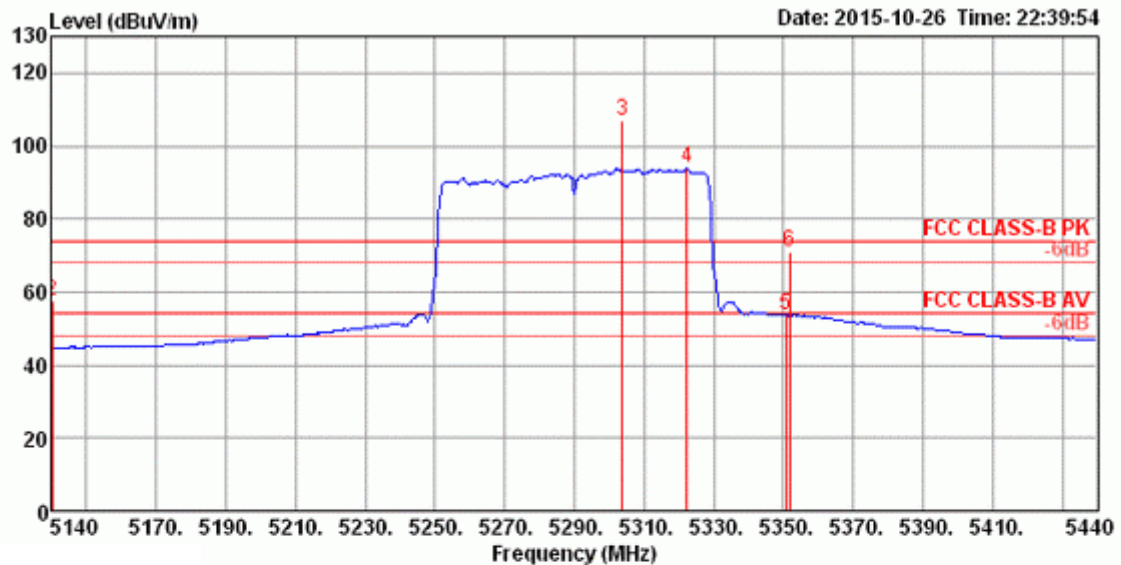
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		
1	5386.60	52.39	54.00	-1.61	44.84	6.50	34.11	33.06	225	307	Average	HORIZONTAL
2	5460.00	69.19	74.00	-4.81	61.43	6.60	34.22	33.06	225	307	Peak	HORIZONTAL
3	5468.80	51.77	54.00	-2.23	43.98	6.60	34.25	33.06	225	307	Average	HORIZONTAL
4	5470.00	71.11	74.00	-2.89	63.32	6.60	34.25	33.06	225	307	Peak	HORIZONTAL
5	5497.60	95.75			87.88	6.63	34.30	33.06	225	307	Average	HORIZONTAL
6	5497.60	108.73			100.86	6.63	34.30	33.06	225	307	Peak	HORIZONTAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 5 / CH, 58+122 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 58

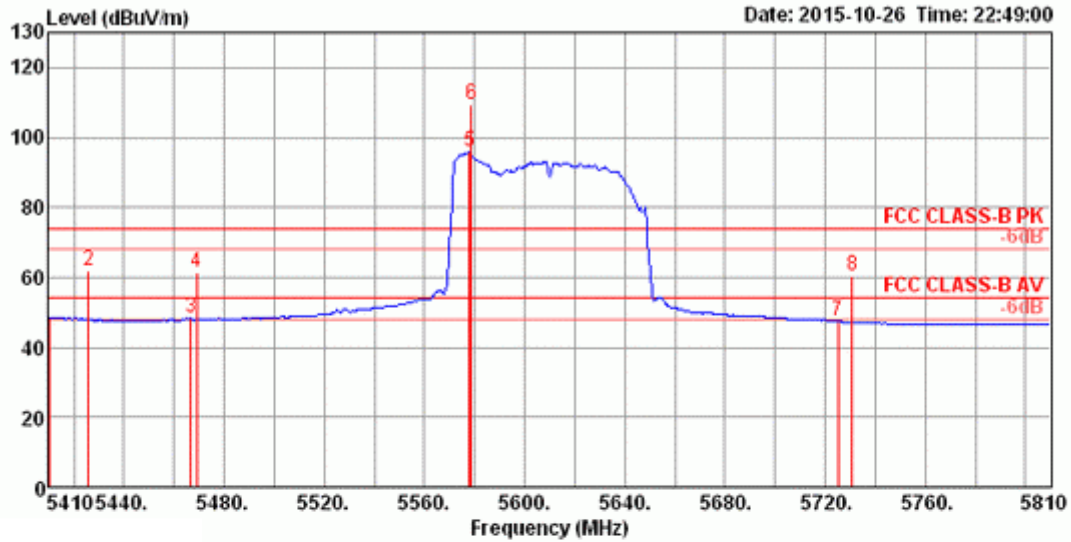


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5140.00	44.91	54.00	-9.09	38.05	6.17	33.74	33.05	153	288	Average
2	5140.00	57.47	74.00	-16.53	50.61	6.17	33.74	33.05	153	288	Peak
3	5303.80	106.87			99.55	6.40	33.98	33.06	153	288	Peak
4	5322.40	93.86			86.48	6.43	34.01	33.06	153	288	Average
5	5350.60	53.71	54.00	-0.29	46.24	6.47	34.06	33.06	153	288	Average
6	5351.80	70.95	74.00	-3.05	63.48	6.47	34.06	33.06	153	288	Peak

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

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

## Channel 122



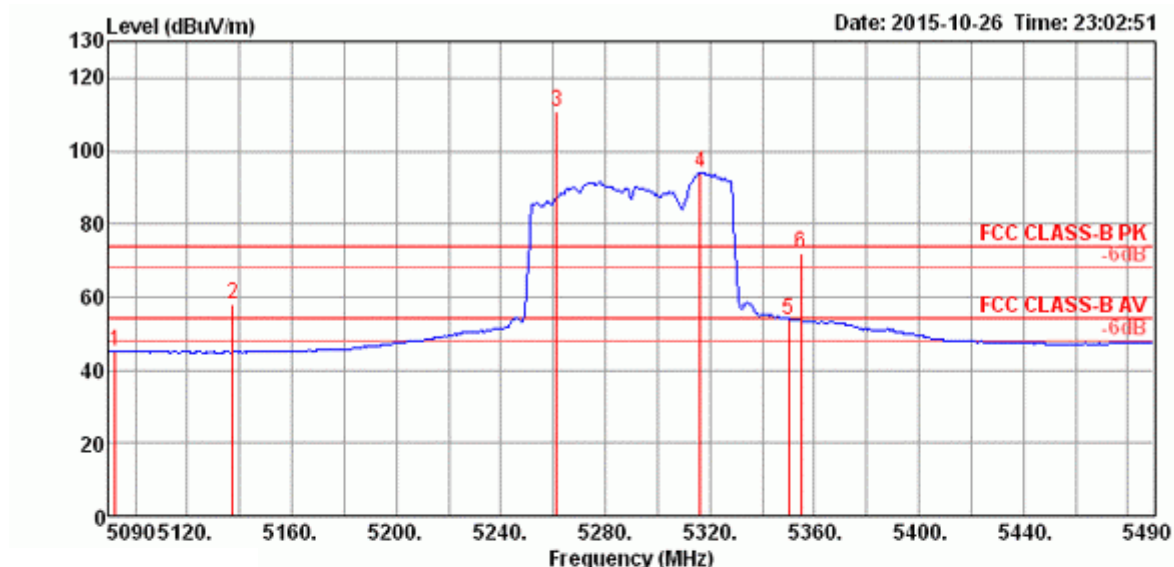
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5410.00	48.52	54.00	-5.48	40.91	6.53	34.14	33.06	235	310	Average	HORIZONTAL
2	5426.00	61.96	74.00	-12.04	54.29	6.56	34.17	33.06	235	310	Peak	HORIZONTAL
3	5466.80	48.25	54.00	-5.75	40.46	6.60	34.25	33.06	235	310	Average	HORIZONTAL
4	5469.20	61.34	74.00	-12.66	53.55	6.60	34.25	33.06	235	310	Peak	HORIZONTAL
5	5578.00	96.12			88.15	6.72	34.34	33.09	235	310	Average	HORIZONTAL
6	5578.80	109.53			101.56	6.72	34.34	33.09	235	310	Peak	HORIZONTAL
7	5725.00	47.39	54.00	-6.61	39.26	6.83	34.43	33.13	235	310	Average	HORIZONTAL
8	5730.80	60.57	74.00	-13.43	52.42	6.86	34.43	33.14	235	310	Peak	HORIZONTAL

Item 5, 6 are the fundamental frequency at 5610 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 6 / CH 58+138 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 58



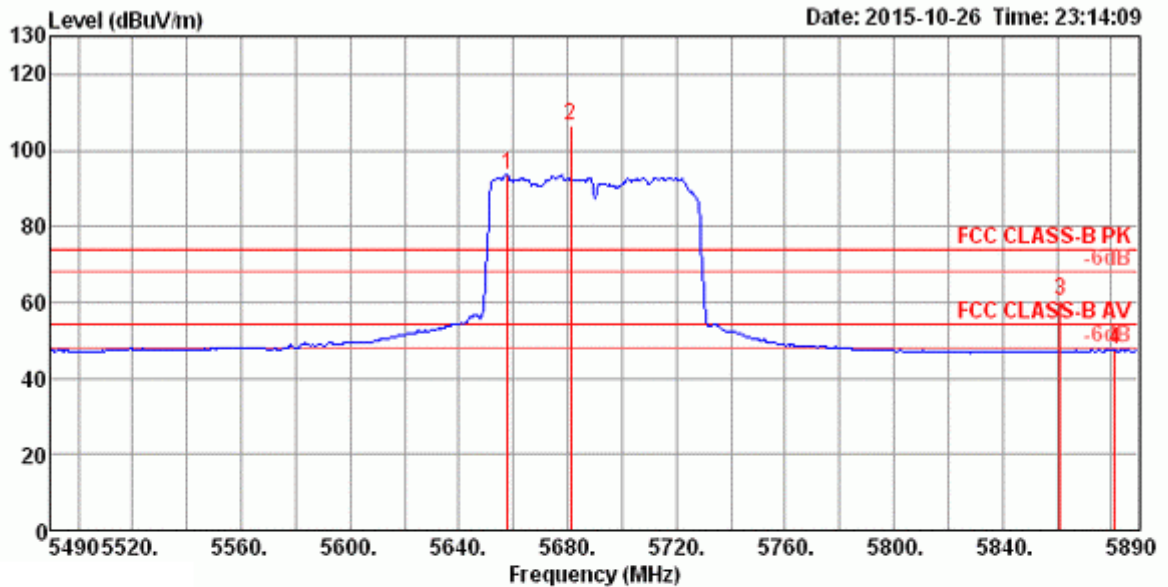
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5092.40	44.93	54.00	-9.07	38.21	6.11	33.66	33.05	197	286	Average
2	5137.20	58.08	74.00	-15.92	51.25	6.17	33.71	33.05	197	286	Peak
3	5261.20	111.03			103.82	6.34	33.93	33.06	197	286	Peak
4	5316.40	93.95			86.60	6.40	34.01	33.06	197	286	Average
5	5350.00	53.81	54.00	-0.19	46.34	6.47	34.06	33.06	197	286	Average
6	5354.80	71.89	74.00	-2.11	64.42	6.47	34.06	33.06	197	286	Peak

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

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



### Channel 138



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5658.00	93.55			85.49	6.79	34.39	33.12	225	58	Average	HORIZONTAL
2	5681.20	106.39			98.30	6.81	34.40	33.12	225	58	Peak	HORIZONTAL
3	5861.20	60.21	74.00	-13.79	51.90	6.97	34.52	33.18	225	58	Peak	HORIZONTAL
4	5881.20	47.35	54.00	-6.65	39.03	6.97	34.53	33.18	225	58	Average	HORIZONTAL

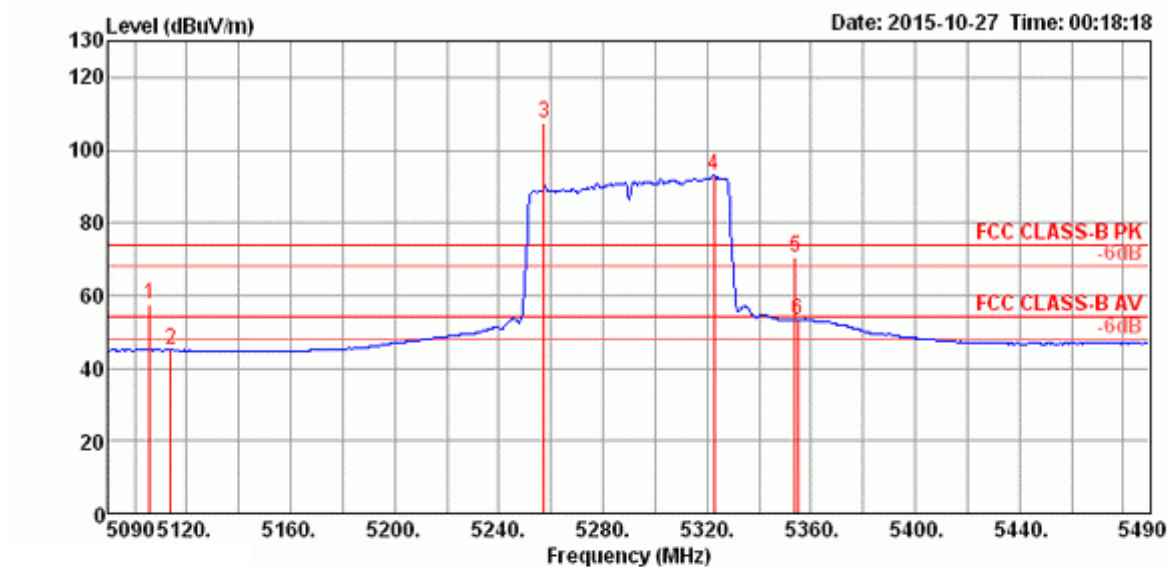
Item 1, 2 are the fundamental frequency at 5690 MHz.

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



Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 7 / CH 58+155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 58

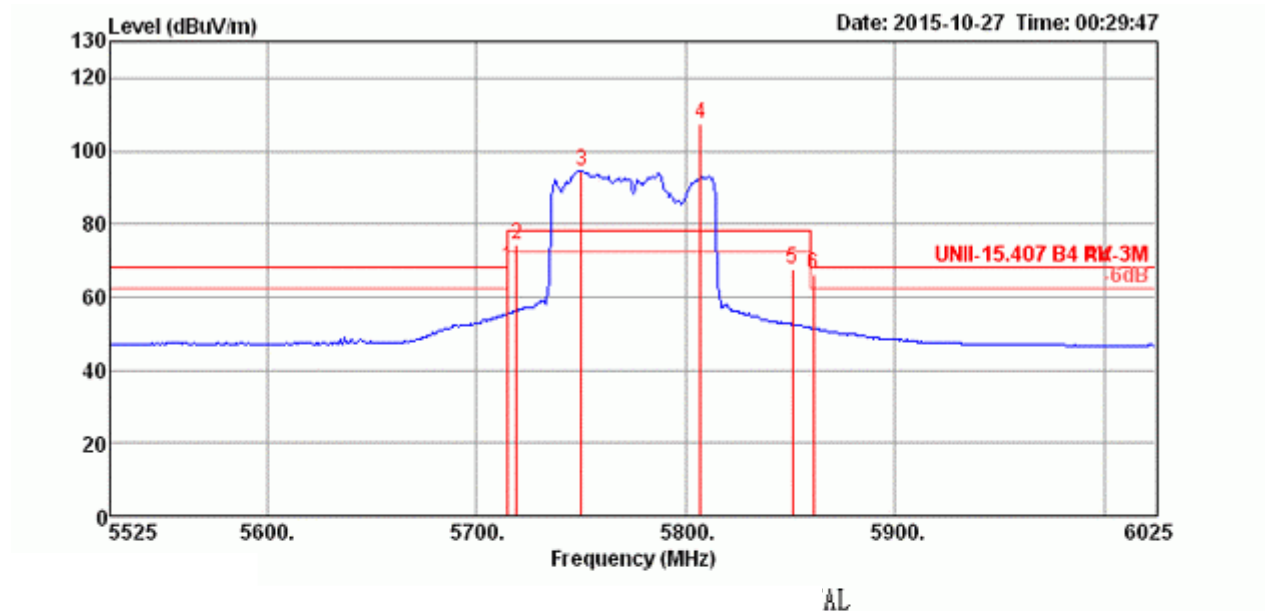


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor				
			dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5106.00	57.34	74.00	-16.66	50.56	6.14	33.69	33.05	148	290	Peak	HORIZONTAL
2	5114.00	44.98	54.00	-9.02	38.20	6.14	33.69	33.05	148	290	Average	HORIZONTAL
3	5257.20	107.40			100.22	6.34	33.90	33.06	148	290	Peak	HORIZONTAL
4	5322.80	92.96			85.58	6.43	34.01	33.06	148	290	Average	HORIZONTAL
5	5354.00	70.56	74.00	-3.44	63.09	6.47	34.06	33.06	148	290	Peak	HORIZONTAL
6	5354.80	53.43	54.00	-0.57	45.96	6.47	34.06	33.06	148	290	Average	HORIZONTAL

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

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

### Channel 155



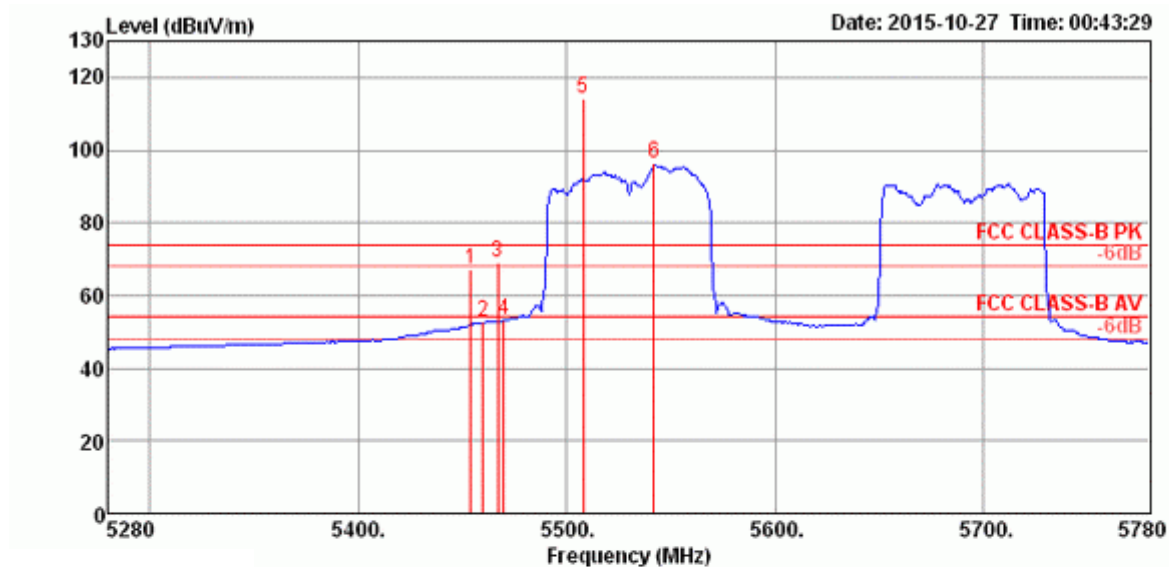
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5715.00	68.09	68.20	-0.11	59.97	6.83	34.42	33.13	221	306	Peak	HORIZONTAL
2	5719.00	74.28	78.20	-3.92	66.15	6.83	34.43	33.13	221	306	Peak	HORIZONTAL
3	5750.00	94.47			86.31	6.86	34.44	33.14	221	306	Average	HORIZONTAL
4	5807.00	107.50			99.25	6.92	34.49	33.16	221	306	Peak	HORIZONTAL
5	5851.00	67.85	78.20	-10.35	59.56	6.95	34.51	33.17	221	306	Peak	HORIZONTAL
6	5861.00	66.13	68.20	-2.07	57.82	6.97	34.52	33.18	221	306	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 8 / 106+138 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 106

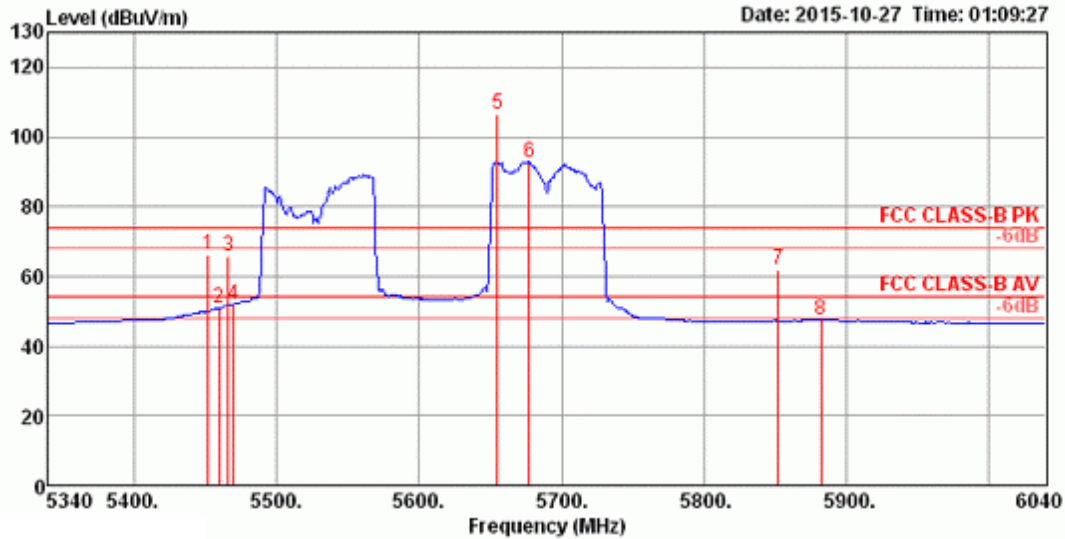


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5454.00	67.24	74.00	-6.76	59.48	6.60	34.22	33.06	200	297	Peak	HORIZONTAL
2	5460.00	52.71	54.00	-1.29	44.95	6.60	34.22	33.06	200	297	Average	HORIZONTAL
3	5467.00	69.20	74.00	-4.80	61.41	6.60	34.25	33.06	200	297	Peak	HORIZONTAL
4	5470.00	53.36	54.00	-0.64	45.57	6.60	34.25	33.06	200	297	Average	HORIZONTAL
5	5508.00	114.15			106.27	6.65	34.30	33.07	200	297	Peak	HORIZONTAL
6	5542.00	96.23			88.31	6.68	34.32	33.08	200	297	Average	HORIZONTAL

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

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

## Channel 138



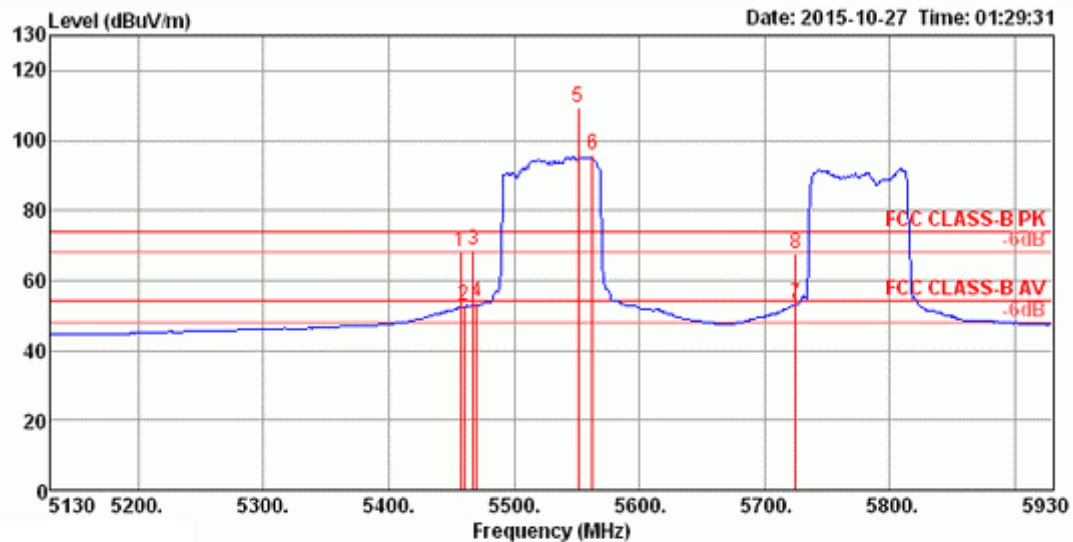
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5452.00	65.96	74.00	-8.04	58.20	6.60	34.22	33.06	225	69 Peak	HORIZONTAL
2	5460.00	50.98	54.00	-3.02	43.22	6.60	34.22	33.06	225	69 Average	HORIZONTAL
3	5466.00	65.68	74.00	-8.32	57.89	6.60	34.25	33.06	225	69 Peak	HORIZONTAL
4	5470.00	52.03	54.00	-1.97	44.24	6.60	34.25	33.06	225	69 Average	HORIZONTAL
5	5655.00	106.63			98.57	6.79	34.39	33.12	225	69 Peak	HORIZONTAL
6	5677.40	92.74			84.67	6.79	34.40	33.12	225	69 Average	HORIZONTAL
7	5852.40	61.84	74.00	-12.16	53.55	6.95	34.51	33.17	225	69 Peak	HORIZONTAL
8	5881.80	47.32	54.00	-6.68	39.00	6.97	34.53	33.18	225	69 Average	HORIZONTAL

Item 5, 6 are the fundamental frequency at 5690 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 9 / CH 106+155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 106

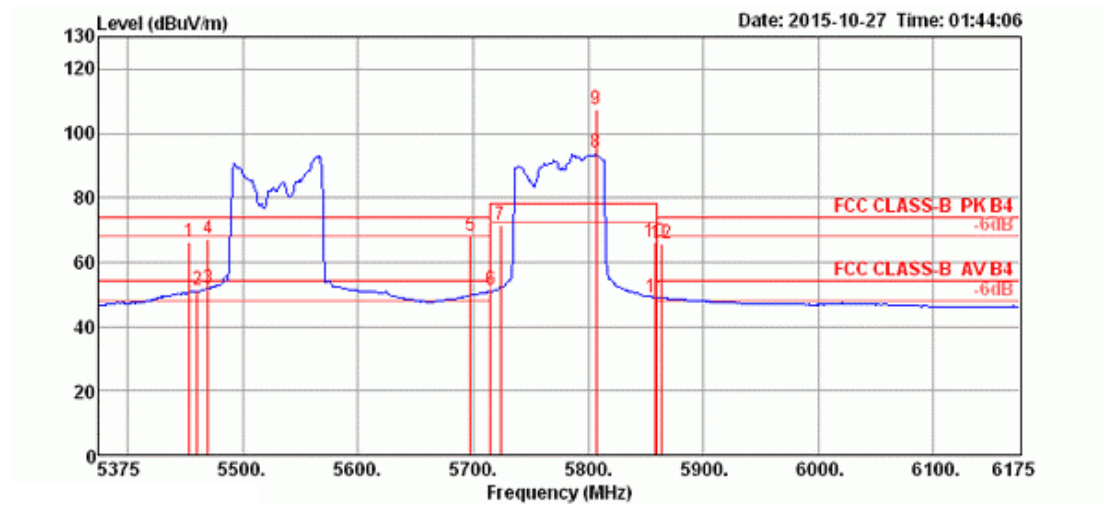


	Freq	Level	Limit	Over	Read	Cable/Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5457.20	68.03	74.00	-5.97	60.27	6.60	34.22	33.06	172	301	Peak
2	5460.00	52.63	54.00	-1.37	44.87	6.60	34.22	33.06	172	301	Average
3	5467.00	68.50	74.00	-5.50	60.71	6.60	34.25	33.06	172	301	Peak
4	5470.00	53.70	54.00	-0.30	45.91	6.60	34.25	33.06	172	301	Average
5	5551.00	109.18			101.25	6.68	34.33	33.08	172	301	Peak
6	5562.20	95.72			87.77	6.70	34.33	33.08	172	301	Average
7	5725.00	53.28	54.00	-0.72	45.15	6.83	34.43	33.13	172	301	Average
8	5725.00	67.43	74.00	-6.57	59.30	6.83	34.43	33.13	172	301	Peak

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

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

## Channel 155



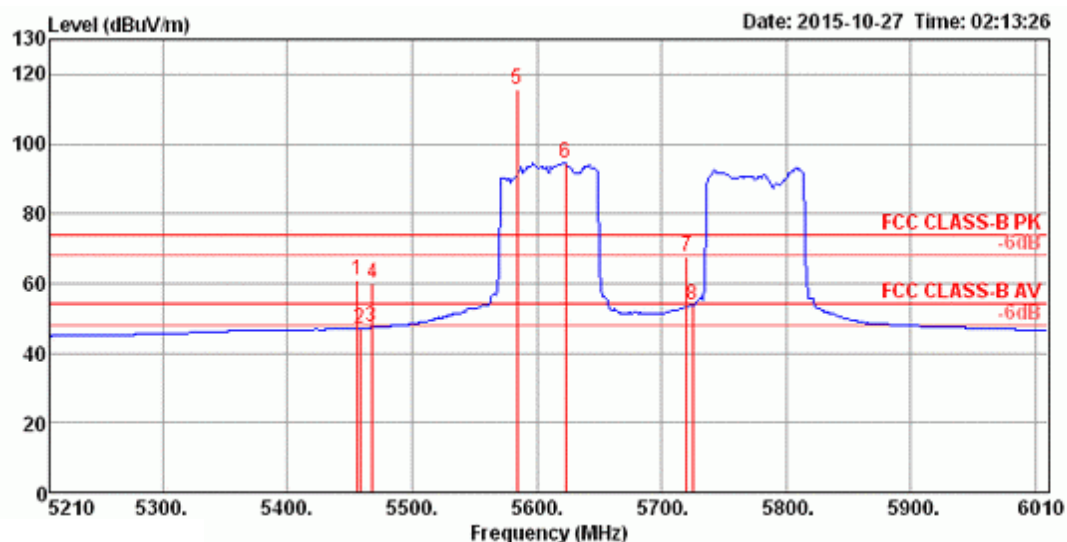
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5453.40	66.35	74.00	-7.65	58.59	6.60	34.22	33.06	225	323	Peak
2	5460.00	51.52	54.00	-2.48	43.76	6.60	34.22	33.06	225	323	Average
3	5470.00	51.80	54.00	-2.20	44.01	6.60	34.25	33.06	225	323	Average
4	5470.00	67.08	74.00	-6.92	59.29	6.60	34.25	33.06	225	323	Peak
5	5697.40	68.34	74.00	-5.66	60.24	6.81	34.41	33.12	225	323	Peak
6	5715.00	51.29	54.00	-2.71	43.17	6.83	34.42	33.13	225	323	Average
7	5723.40	71.45	78.20	-6.75	63.32	6.83	34.43	33.13	225	323	Peak
8	5806.80	93.92			85.67	6.92	34.49	33.16	225	323	Average
9	5806.80	107.35			99.10	6.92	34.49	33.16	225	323	Peak
10	5858.00	66.10	78.20	-12.10	57.79	6.97	34.52	33.18	225	323	Peak
11	5860.00	49.14	54.00	-4.86	40.83	6.97	34.52	33.18	225	323	Average
12	5863.00	65.82	74.00	-8.18	57.51	6.97	34.52	33.18	225	323	Peak

Item 8, 9 are the fundamental frequency at 5775 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 10 / CH 122+155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 122



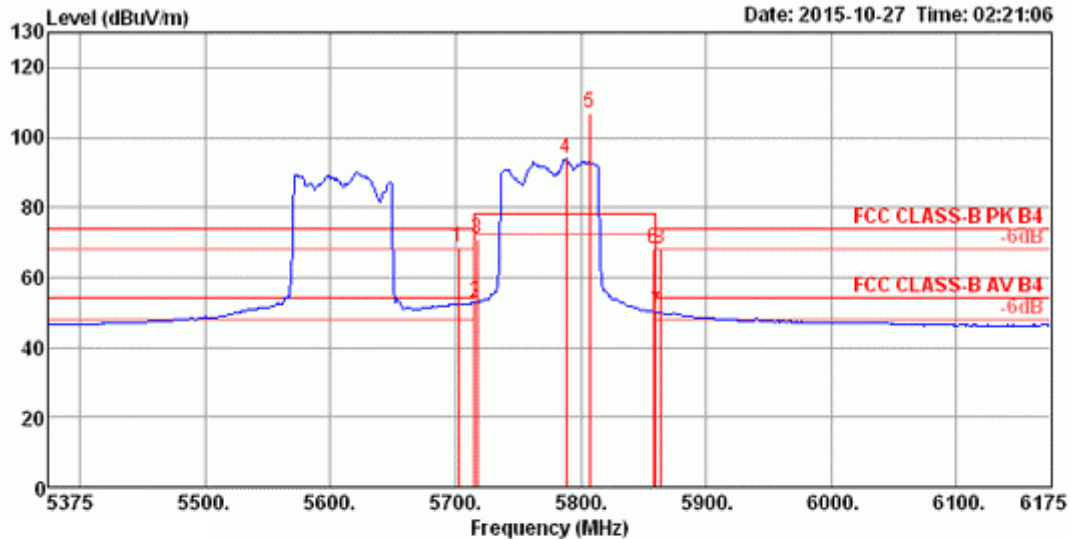
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5456.40	60.83	74.00	-13.17	53.07	6.60	34.22	33.06	171	304	Peak	HORIZONTAL
2	5458.00	47.13	54.00	-6.87	39.37	6.60	34.22	33.06	171	304	Average	HORIZONTAL
3	5467.60	47.35	54.00	-6.65	39.56	6.60	34.25	33.06	171	304	Average	HORIZONTAL
4	5468.40	59.81	74.00	-14.19	52.02	6.60	34.25	33.06	171	304	Peak	HORIZONTAL
5	5584.40	115.78			107.80	6.72	34.35	33.09	171	304	Peak	HORIZONTAL
6	5622.80	94.57			86.56	6.74	34.37	33.10	171	304	Average	HORIZONTAL
7	5720.20	67.56	74.00	-6.44	59.43	6.83	34.43	33.13	171	304	Peak	HORIZONTAL
8	5725.00	53.88	54.00	-0.12	45.75	6.83	34.43	33.13	171	304	Average	HORIZONTAL

Item 5, 6 are the fundamental frequency at 5610 MHz.

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



## Channel 155



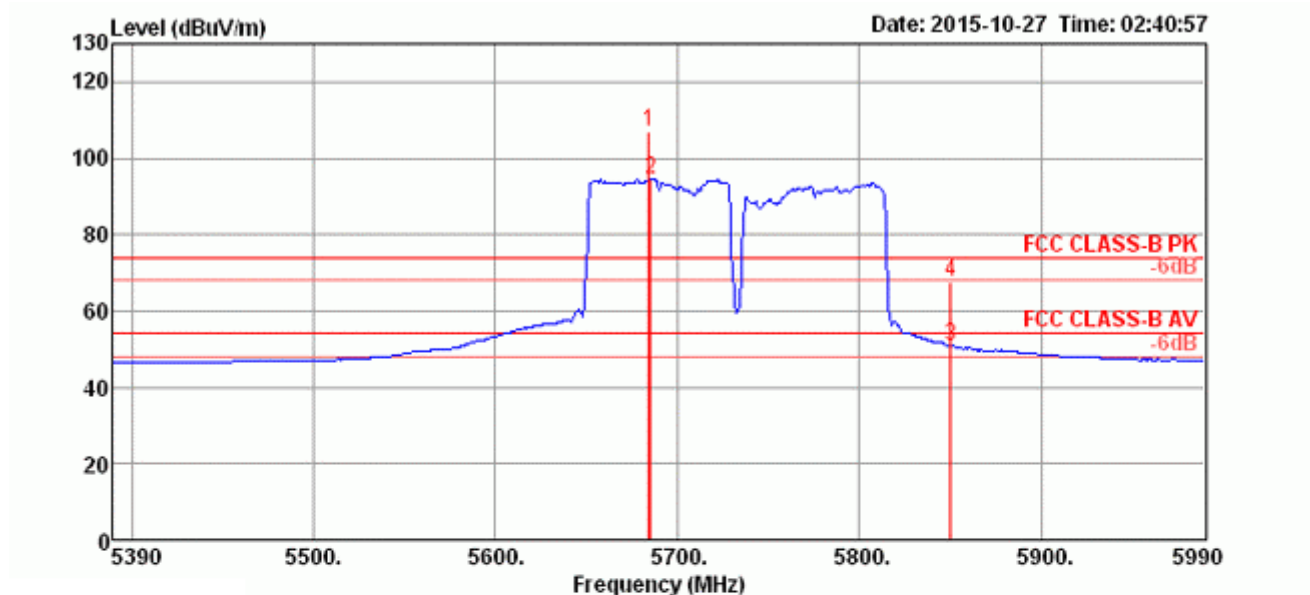
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5702.20	68.78	74.00	-5.22	60.67	6.81	34.42	33.12	225	321	Peak	HORIZONTAL
2	5715.00	52.68	54.00	-1.32	44.56	6.83	34.42	33.13	225	321	Average	HORIZONTAL
3	5717.00	71.22	78.20	-6.98	63.10	6.83	34.42	33.13	225	321	Peak	HORIZONTAL
4	5787.80	93.92			85.70	6.90	34.48	33.16	225	321	Average	HORIZONTAL
5	5807.00	107.18			98.93	6.92	34.49	33.16	225	321	Peak	HORIZONTAL
6	5858.00	68.01	78.20	-10.19	59.70	6.97	34.52	33.18	225	321	Peak	HORIZONTAL
7	5860.00	49.83	54.00	-4.17	41.52	6.97	34.52	33.18	225	321	Average	HORIZONTAL
8	5863.00	68.33	74.00	-5.67	60.02	6.97	34.52	33.18	225	321	Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5775 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 11 / CH 138+155 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 138

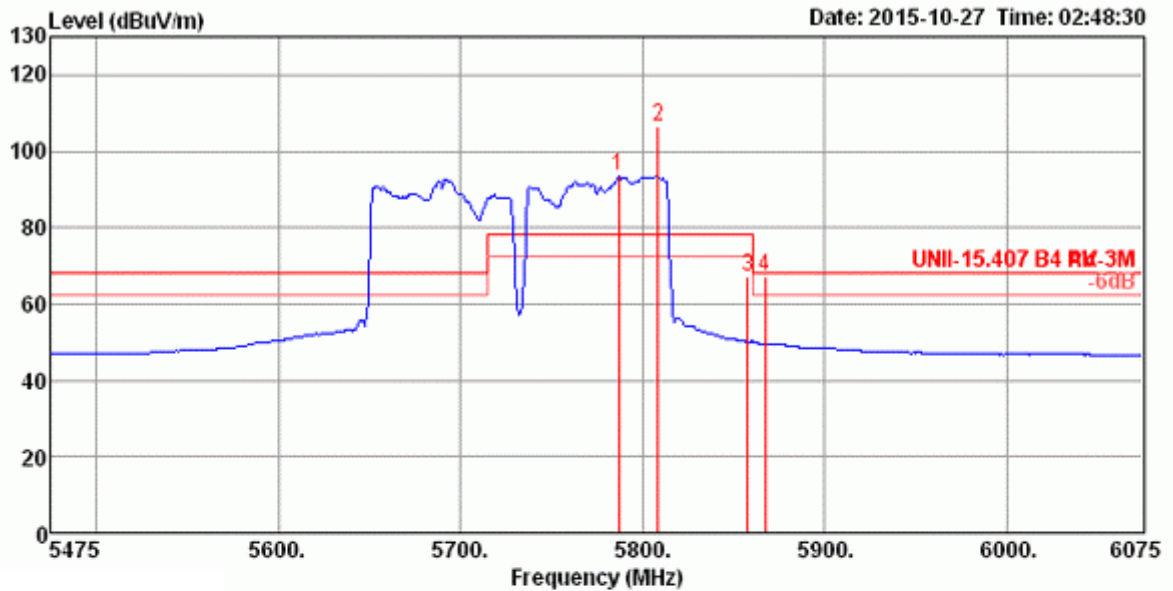


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5684.00	107.17			99.07	6.81	34.41	33.12	176	316 Peak	HORIZONTAL
2	5685.20	94.68			86.58	6.81	34.41	33.12	176	316 Average	HORIZONTAL
3	5850.00	50.93	54.00	-3.07	42.64	6.95	34.51	33.17	176	316 Average	HORIZONTAL
4	5850.00	67.70	74.00	-6.30	59.41	6.95	34.51	33.17	176	316 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

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

## Channel 155



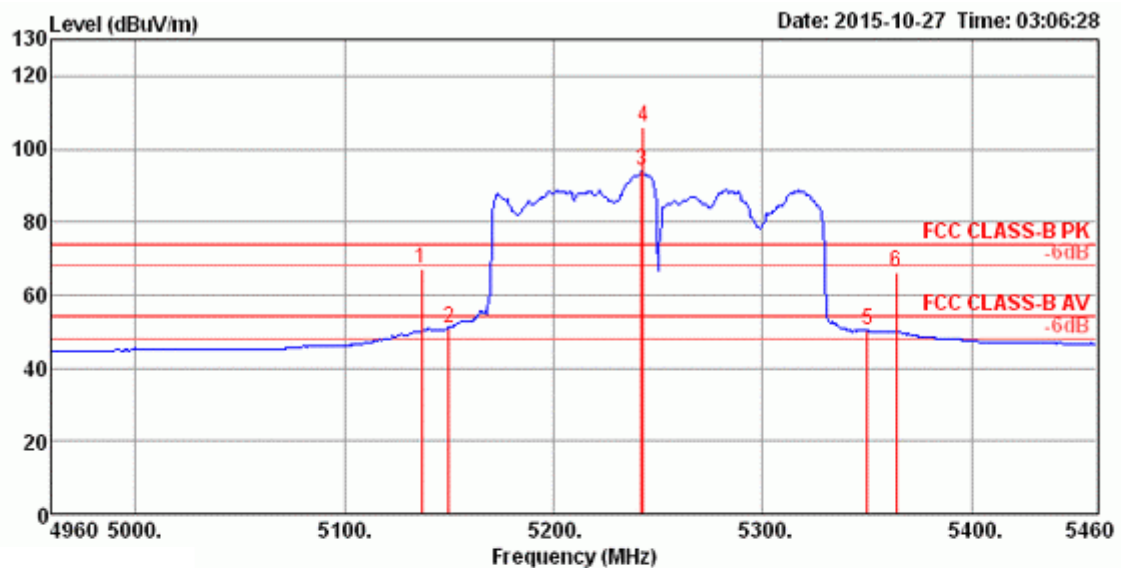
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5787.00	93.67			85.45	6.90	34.48	33.16	225	322 Peak	HORIZONTAL
2	5808.60	106.73			98.48	6.92	34.49	33.16	225	322 Peak	HORIZONTAL
3	5857.80	67.19	78.20	-11.01	58.88	6.97	34.52	33.18	225	322 Peak	HORIZONTAL
4	5867.40	67.07	68.20	-1.13	58.76	6.97	34.52	33.18	225	322 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5775 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 12 / CH 42+58 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 42

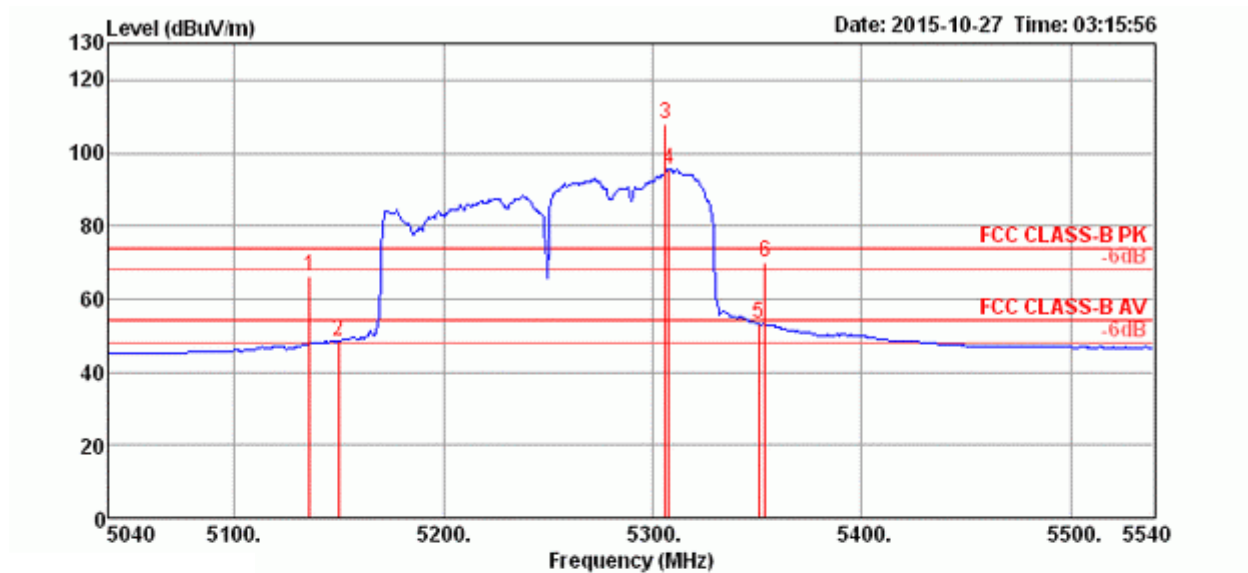


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5137.00	66.93	74.00	-7.07	60.10	6.17	33.71	33.05	225	264	Peak	HORIZONTAL
2	5150.00	51.06	54.00	-2.94	44.16	6.21	33.74	33.05	225	264	Average	HORIZONTAL
3	5242.00	93.96			86.81	6.30	33.90	33.05	225	264	Average	HORIZONTAL
4	5243.00	105.79			98.64	6.30	33.90	33.05	225	264	Peak	HORIZONTAL
5	5350.00	50.40	54.00	-3.60	42.93	6.47	34.06	33.06	225	264	Average	HORIZONTAL
6	5364.00	66.15	74.00	-7.85	58.65	6.47	34.09	33.06	225	264	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

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

# Channel 58



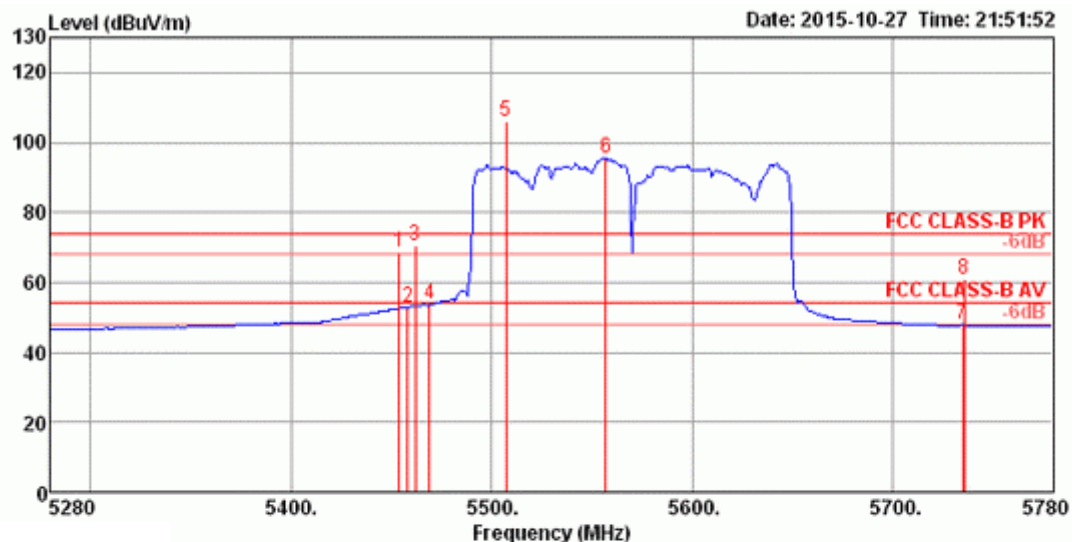
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5136.00	66.28	74.00	-7.72	59.45	6.17	33.71	33.05	225	56	Peak	HORIZONTAL
2	5150.00	48.46	54.00	-5.54	41.56	6.21	33.74	33.05	225	56	Average	HORIZONTAL
3	5306.00	108.14			100.82	6.40	33.98	33.06	225	56	Peak	HORIZONTAL
4	5308.00	95.54			88.22	6.40	33.98	33.06	225	56	Average	HORIZONTAL
5	5351.00	53.27	54.00	-0.73	45.80	6.47	34.06	33.06	225	56	Average	HORIZONTAL
6	5354.00	69.82	74.00	-4.18	62.35	6.47	34.06	33.06	225	56	Peak	HORIZONTAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80+80 Type 13 / CH 106+122 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 106

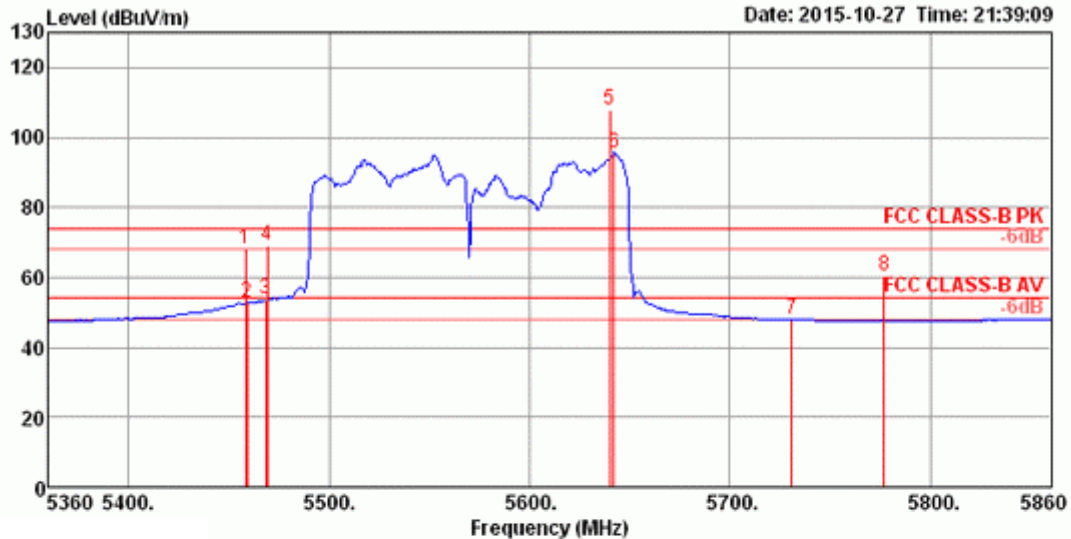


	Freq	Level	Limit	Over	Read	Cable/Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5454.00	68.44	74.00	-5.56	60.68	6.60	34.22	33.06	198	302	Peak
2	5458.00	52.92	54.00	-1.08	45.16	6.60	34.22	33.06	198	302	Average
3	5462.00	70.50	74.00	-3.50	62.74	6.60	34.22	33.06	198	302	Peak
4	5469.00	53.74	54.00	-0.26	45.95	6.60	34.25	33.06	198	302	Average
5	5507.00	106.06			98.18	6.65	34.30	33.07	198	302	Peak
6	5557.00	95.56			87.61	6.70	34.33	33.08	198	302	Average
7	5735.00	47.99	54.00	-6.01	39.83	6.86	34.44	33.14	198	302	Average
8	5736.00	60.90	74.00	-13.10	52.74	6.86	34.44	33.14	198	302	Peak

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

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

## Channel 122



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5458.00	67.93	74.00	-6.07	60.17	6.60	34.22	33.06	269	300	Peak	HORIZONTAL
2	5459.00	52.69	54.00	-1.31	44.93	6.60	34.22	33.06	269	300	Average	HORIZONTAL
3	5468.00	53.72	54.00	-0.28	45.93	6.60	34.25	33.06	269	300	Average	HORIZONTAL
4	5469.00	68.87	74.00	-5.13	61.08	6.60	34.25	33.06	269	300	Peak	HORIZONTAL
5	5640.00	107.71			99.68	6.76	34.38	33.11	269	300	Peak	HORIZONTAL
6	5642.00	95.65			87.62	6.76	34.38	33.11	269	300	Average	HORIZONTAL
7	5731.00	48.06	54.00	-5.94	39.91	6.86	34.43	33.14	269	300	Average	HORIZONTAL
8	5777.00	60.46	74.00	-13.54	52.26	6.88	34.47	33.15	269	300	Peak	HORIZONTAL

Item 5, 6 are the fundamental frequency at 5610 MHz.

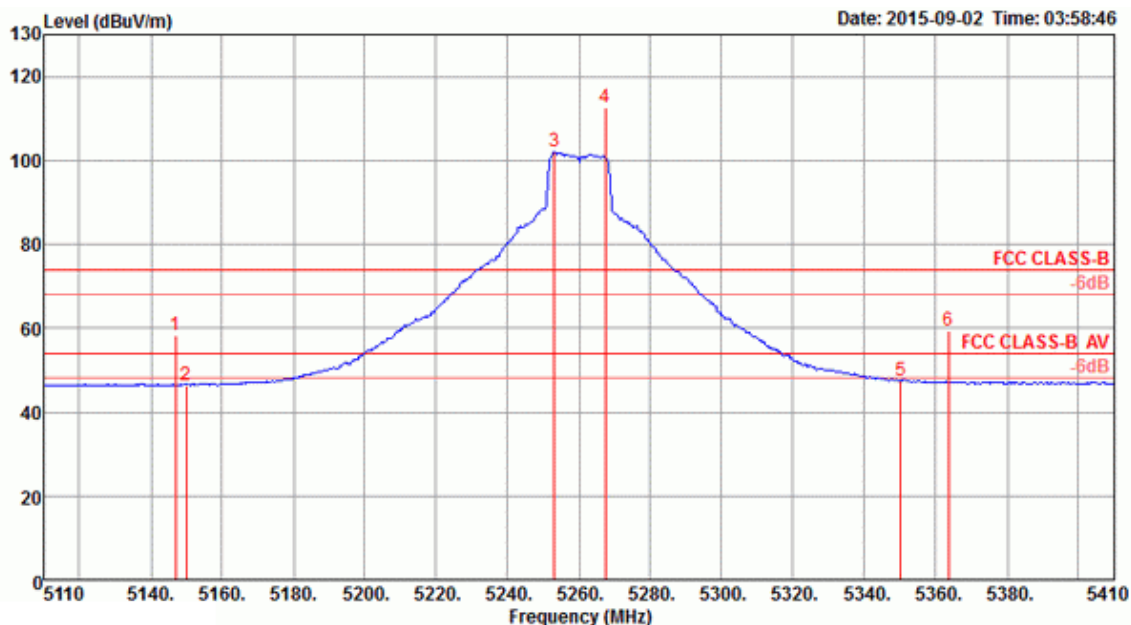
Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.



### <Radio 3 Mode>

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 52, 60, 64 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 52

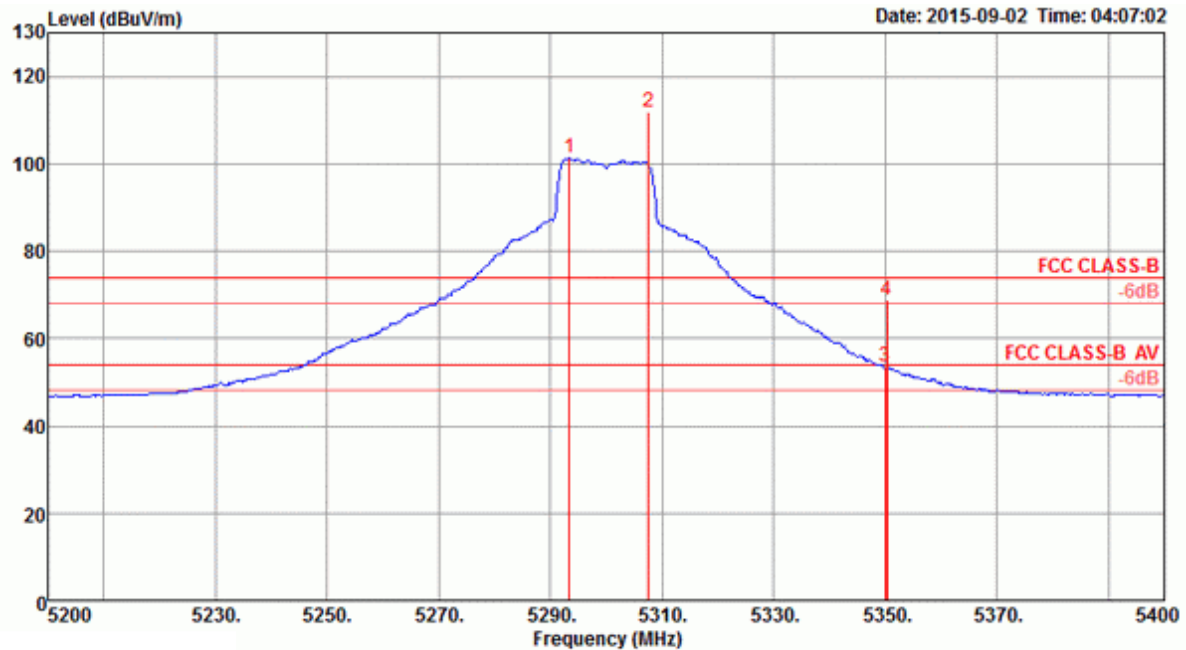


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB				
1	5146.96	58.20	74.00	-15.80	51.66	6.13	34.04	33.63	Peak	116	14	VERTICAL
2	5150.00	46.52	54.00	-7.48	39.98	6.13	34.04	33.63	Average	116	14	VERTICAL
3	5253.05	101.98			95.19	6.20	34.20	33.61	Average	116	14	VERTICAL
4	5267.38	112.55			105.72	6.21	34.23	33.61	Peak	116	14	VERTICAL
5	5350.00	47.46	54.00	-6.54	40.44	6.26	34.36	33.60	Average	116	14	VERTICAL
6	5363.46	59.52	74.00	-14.48	52.46	6.27	34.39	33.60	Peak	116	14	VERTICAL

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

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

## Channel 60

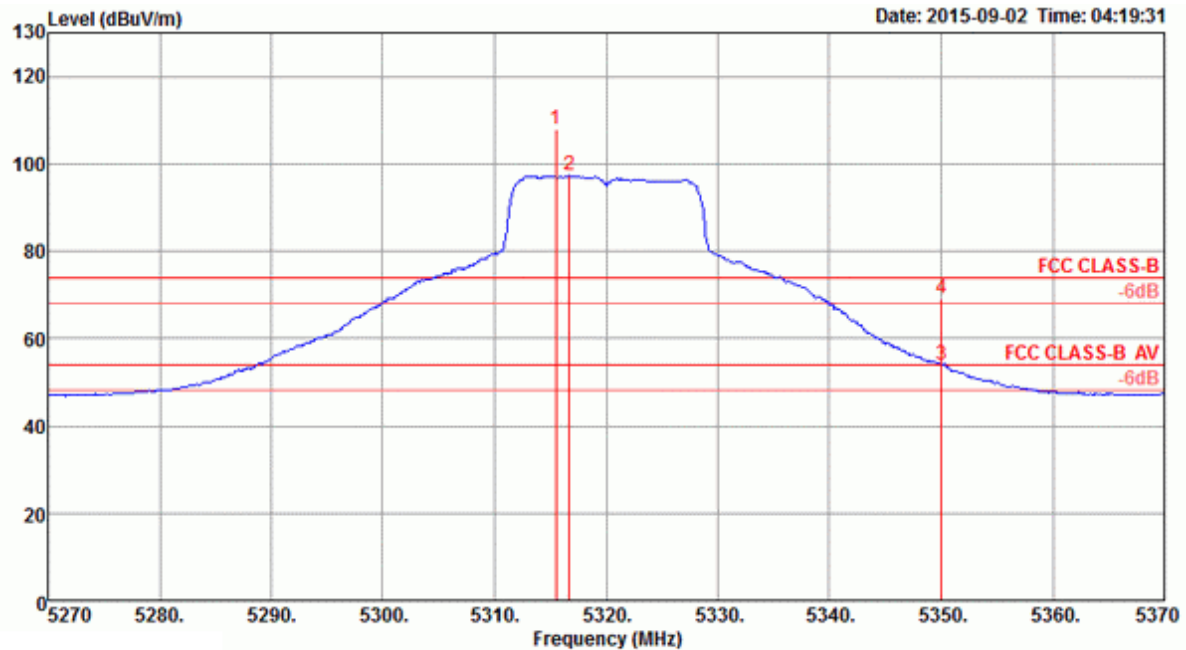


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	5293.34	101.22			94.32	6.23	34.28	33.61	122	16	VERTICAL
2	5307.53	111.75			104.85	6.23	34.28	33.61	122	16	VERTICAL
3	5350.00	53.61	54.00	-0.39	46.59	6.26	34.36	33.60	122	16	VERTICAL
4	5350.29	68.73	74.00	-5.27	61.71	6.26	34.36	33.60	122	16	VERTICAL

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

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

## Channel 64



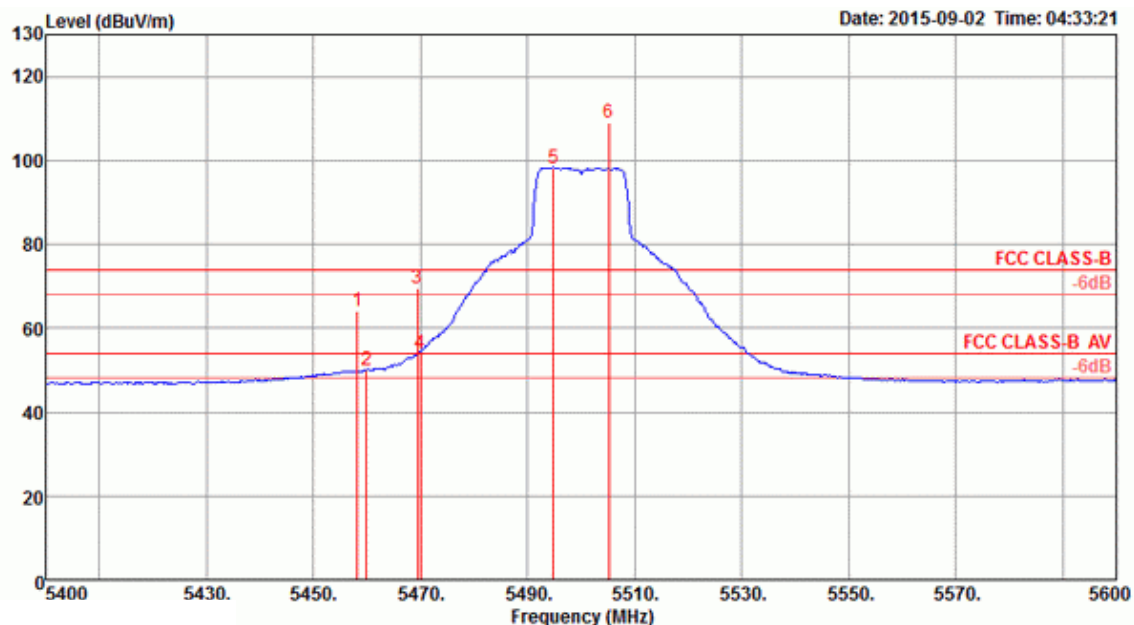
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	5315.51	107.93			100.98	6.24	34.31	33.60	125	18	VERTICAL
2	5316.67	97.34			90.39	6.24	34.31	33.60	125	18	VERTICAL
3	5350.00	53.88	54.00	-0.12	46.86	6.26	34.36	33.60	125	18	VERTICAL
4	5350.00	69.19	74.00	-4.81	62.17	6.26	34.36	33.60	125	18	VERTICAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 100, 116, 140 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 100

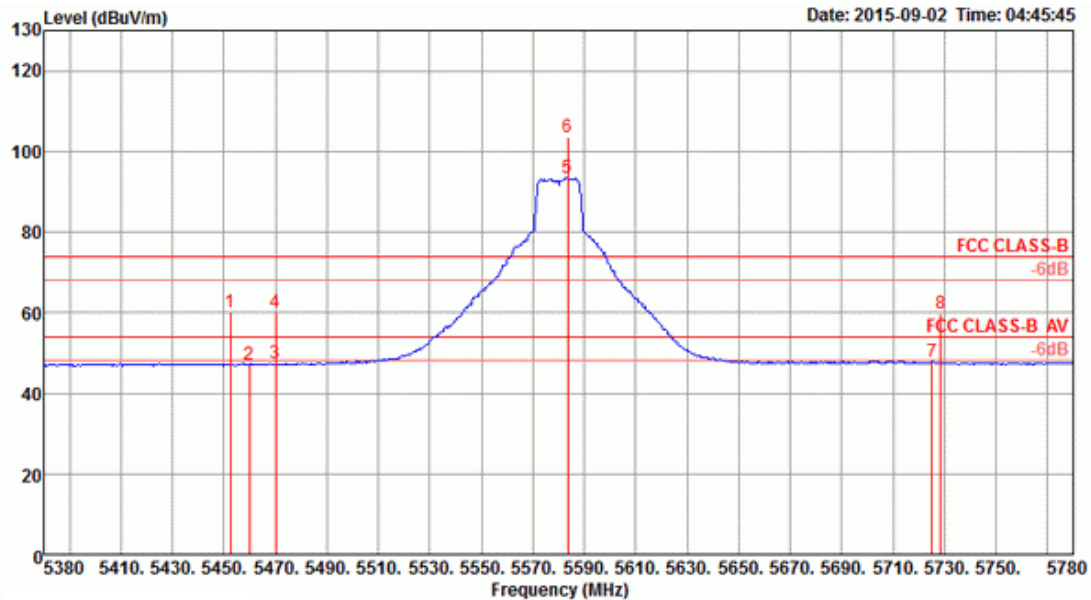


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	Remark	cm	deg	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB				
1	5458.26	64.08	74.00	-9.92	56.81	6.33	34.52	33.58	Peak	111	9	VERTICAL
2	5460.00	50.05	54.00	-3.95	42.78	6.33	34.52	33.58	Average	111	9	VERTICAL
3	5469.42	69.49	74.00	-4.51	62.18	6.34	34.55	33.58	Peak	111	9	VERTICAL
4	5470.00	53.93	54.00	-0.07	46.62	6.34	34.55	33.58	Average	111	9	VERTICAL
5	5494.79	98.29			90.95	6.35	34.57	33.58	Average	111	9	VERTICAL
6	5505.21	109.15			101.77	6.36	34.60	33.58	Peak	111	9	VERTICAL

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

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

## Channel 116

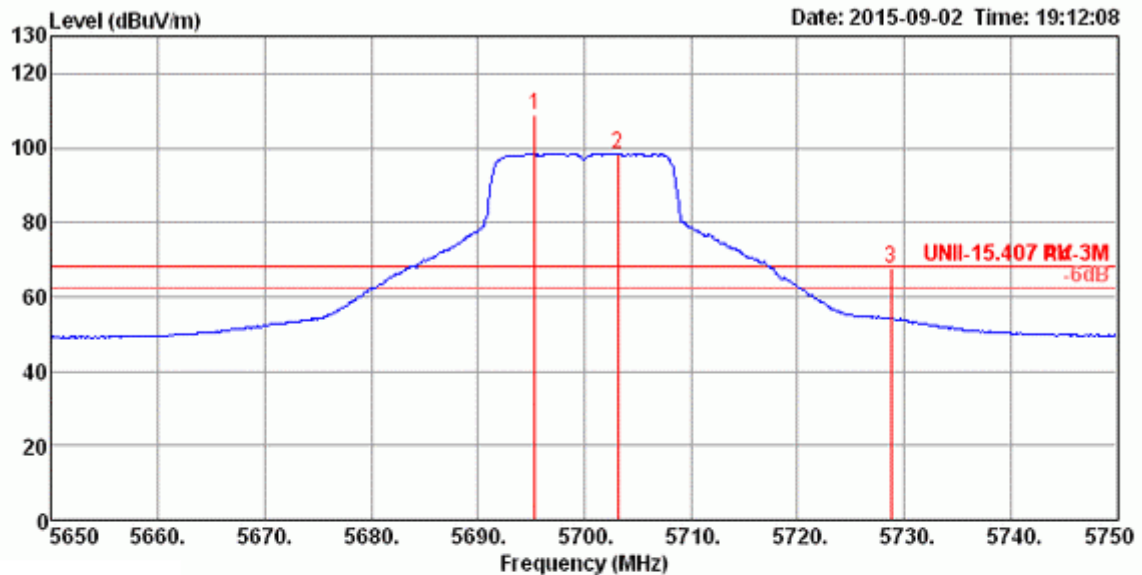


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5452.47	60.07	74.00	-13.93	52.80	6.33	34.52	33.58	126	83	HORIZONTAL
2	5460.00	46.91	54.00	-7.09	39.64	6.33	34.52	33.58	126	83	HORIZONTAL
3	5470.00	47.43	54.00	-6.57	40.12	6.34	34.55	33.58	126	83	HORIZONTAL
4	5470.00	60.20	74.00	-13.80	52.89	6.34	34.55	33.58	126	83	HORIZONTAL
5	5583.47	93.42			86.00	6.39	34.62	33.59	126	83	HORIZONTAL
6	5583.47	103.73			96.31	6.39	34.62	33.59	126	83	HORIZONTAL
7	5725.00	47.67	54.00	-6.33	40.18	6.45	34.64	33.60	126	83	HORIZONTAL
8	5728.47	59.88	74.00	-14.12	52.39	6.45	34.64	33.60	126	83	HORIZONTAL

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

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

## Channel 140



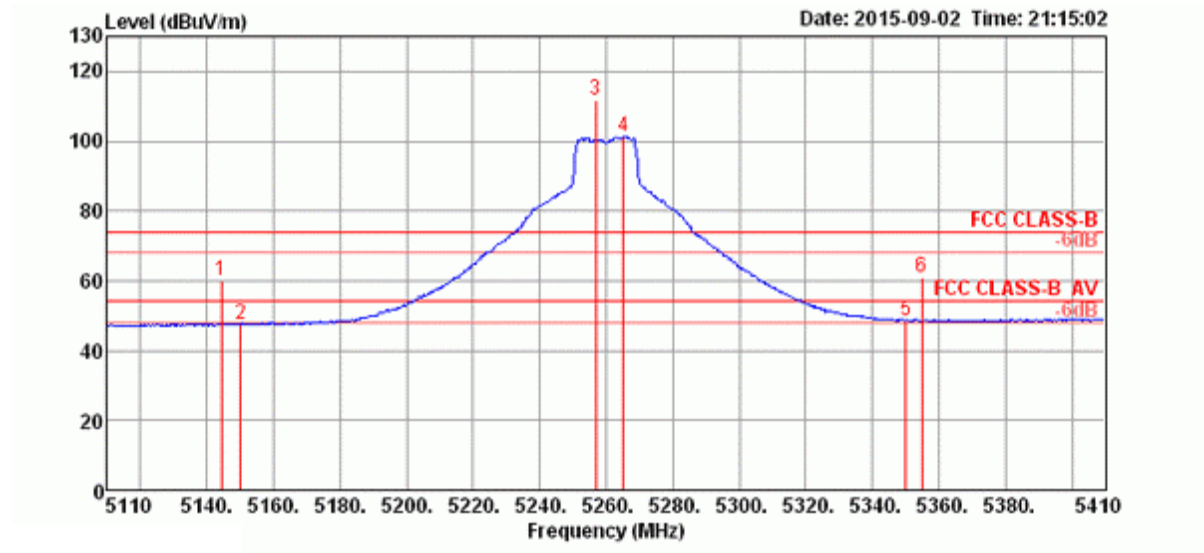
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5695.37	108.88			100.78	6.81	34.41	33.12	100	354	Peak	VERTICAL
2	5703.18	98.48			90.37	6.81	34.42	33.12	100	354	Average	VERTICAL
3	5728.76	67.78	68.20	-0.42	59.65	6.83	34.43	33.13	100	354	Peak	VERTICAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 52



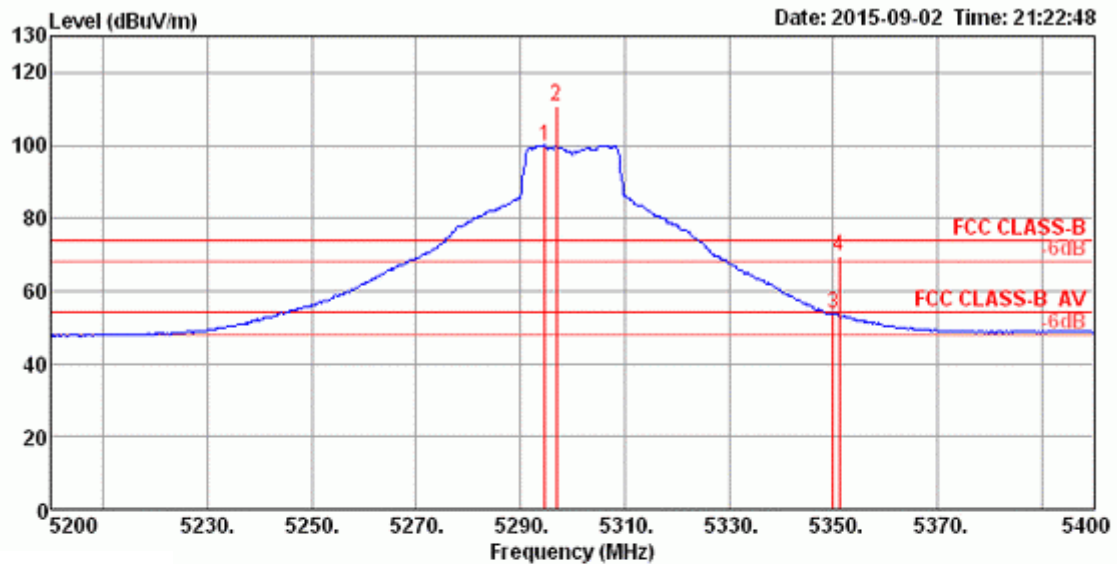
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5144.36	60.07	74.00	-13.93	53.17	6.21	33.74	33.05	100	24 Peak	VERTICAL
2	5150.00	47.51	54.00	-6.49	40.61	6.21	33.74	33.05	100	24 Average	VERTICAL
3	5256.96	111.84			104.66	6.34	33.90	33.06	100	24 Peak	VERTICAL
4	5265.21	101.24			94.03	6.34	33.93	33.06	100	24 Average	VERTICAL
5	5350.00	48.61	54.00	-5.39	41.14	6.47	34.06	33.06	100	24 Average	VERTICAL
6	5354.78	61.10	74.00	-12.90	53.63	6.47	34.06	33.06	100	24 Peak	VERTICAL

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

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



### Channel 60

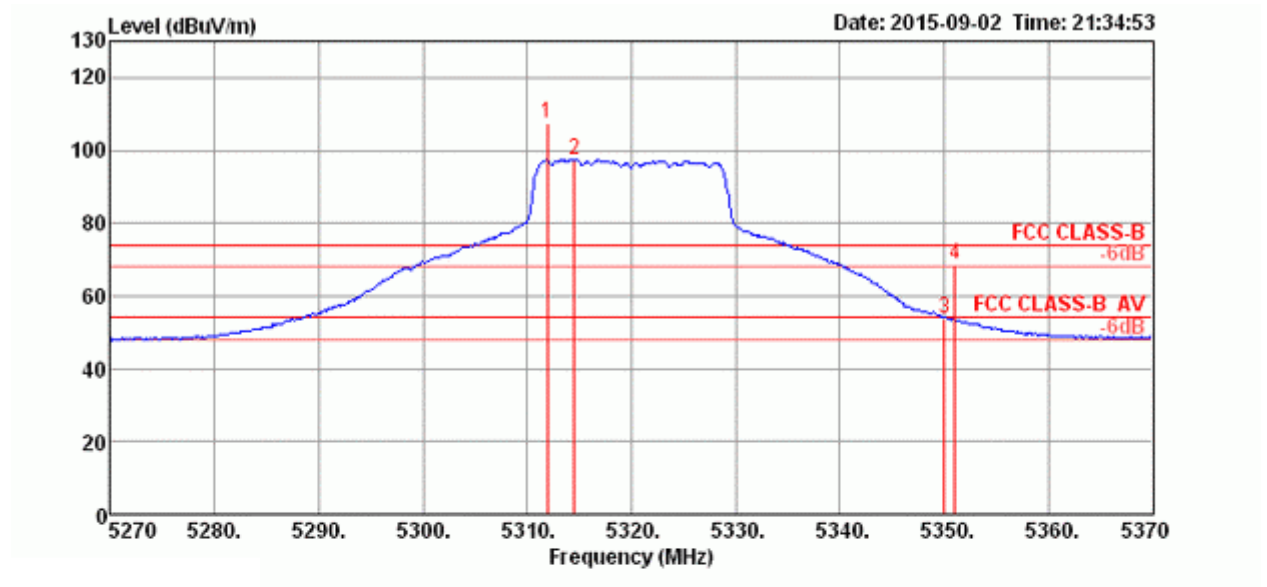


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5294.79	100.00			92.71	6.37	33.98	33.06	100	348	Average	VERTICAL
2	5296.82	110.80			103.48	6.40	33.98	33.06	100	348	Peak	VERTICAL
3	5350.00	53.64	54.00	-0.36	46.17	6.47	34.06	33.06	100	348	Average	VERTICAL
4	5351.16	69.46	74.00	-4.54	61.99	6.47	34.06	33.06	100	348	Peak	VERTICAL

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

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

## Channel 64



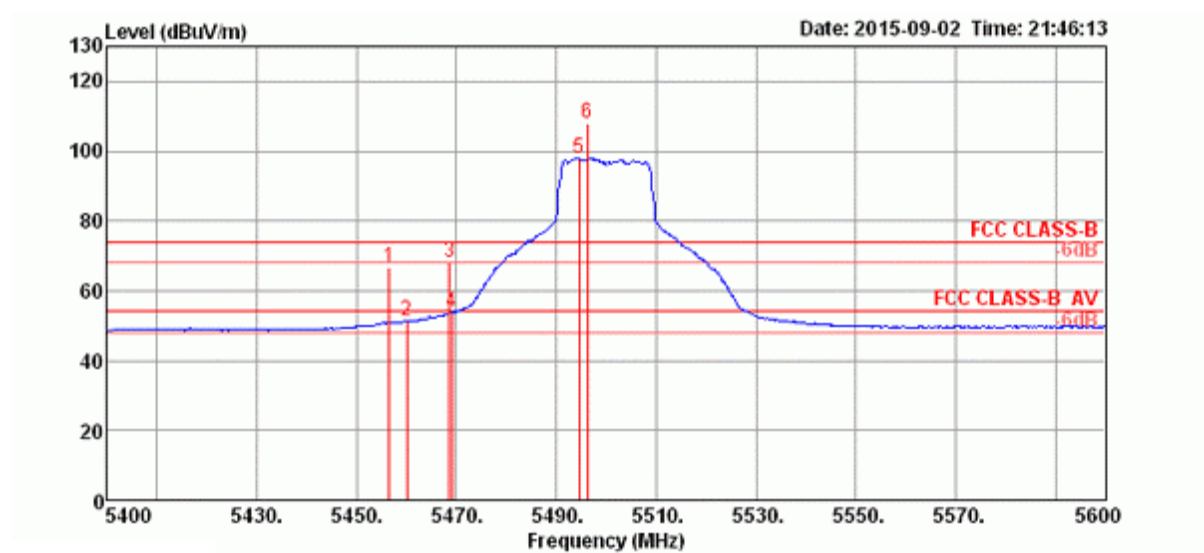
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	cm	deg	
1	5311.90	107.64			100.29	6.40	34.01	33.06	102	23	Peak
2	5314.50	97.56			90.21	6.40	34.01	33.06	102	23	Average
3	5350.00	53.95	54.00	-0.05	46.48	6.47	34.06	33.06	102	23	Average
4	5351.01	68.72	74.00	-5.28	61.25	6.47	34.06	33.06	102	23	Peak

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 100, 116, 140 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 100

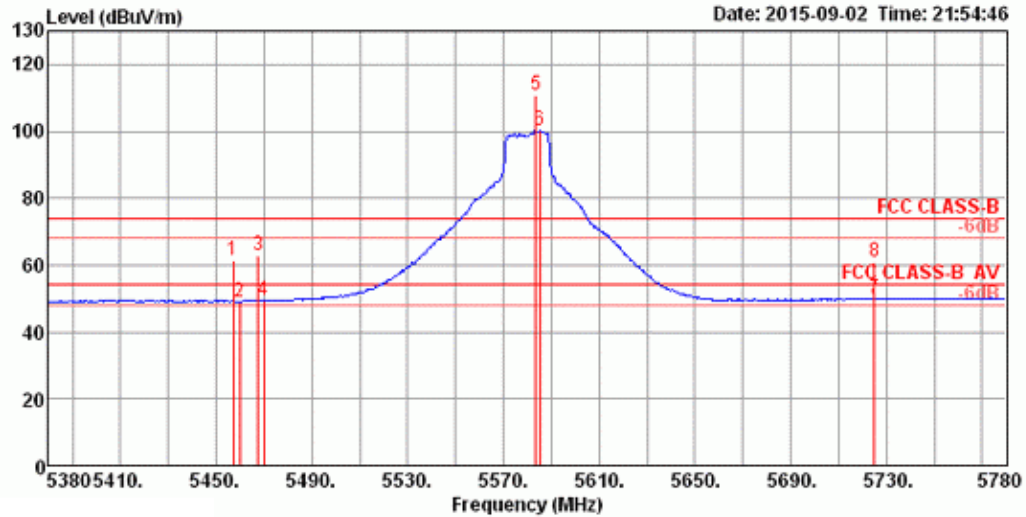


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5456.53	66.69	74.00	-7.31	58.93	6.60	34.22	33.06	103	2 Peak	VERTICAL
2	5460.00	51.22	54.00	-2.78	43.46	6.60	34.22	33.06	103	2 Average	VERTICAL
3	5468.55	68.29	74.00	-5.71	60.50	6.60	34.25	33.06	103	2 Peak	VERTICAL
4	5469.13	53.72	54.00	-0.28	45.93	6.60	34.25	33.06	103	2 Average	VERTICAL
5	5494.50	97.89			90.05	6.63	34.27	33.06	103	2 Average	VERTICAL
6	5496.24	108.16			100.32	6.63	34.27	33.06	103	2 Peak	VERTICAL

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

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

## Channel 116

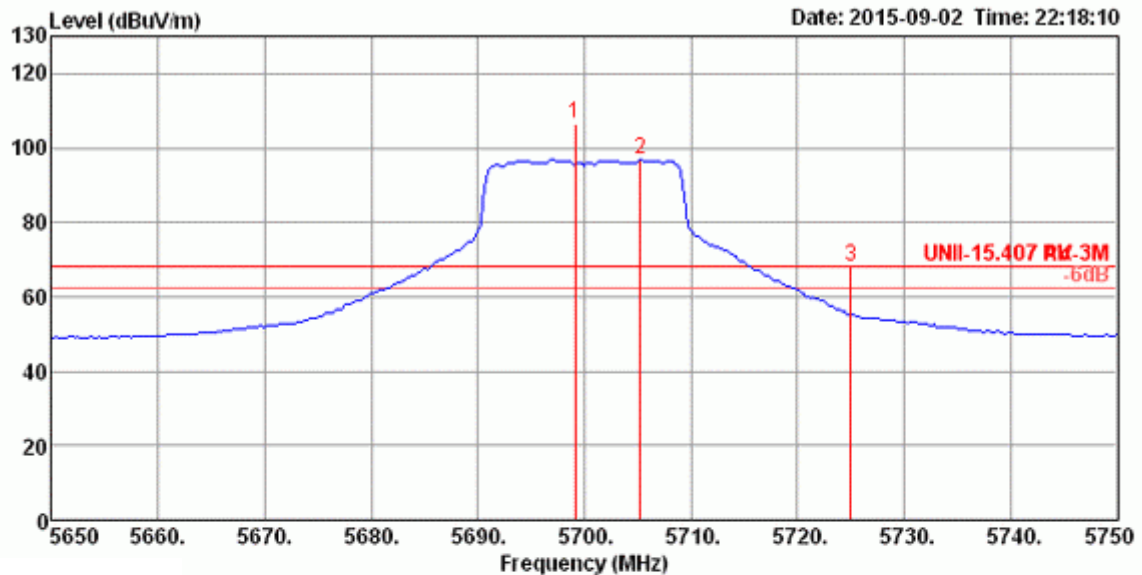


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	Pol/Phase
1	5457.11	61.37	74.00	-12.63	53.61	6.60	34.22	33.06	100	360	Peak
2	5460.00	49.02	54.00	-4.98	41.26	6.60	34.22	33.06	100	360	Average
3	5467.68	63.00	74.00	-11.00	55.21	6.60	34.25	33.06	100	360	Peak
4	5470.00	49.36	54.00	-4.64	41.57	6.60	34.25	33.06	100	360	Average
5	5583.47	110.68			102.70	6.72	34.35	33.09	100	360	Peak
6	5585.21	100.16			92.18	6.72	34.35	33.09	100	360	Average
7	5725.00	49.80	54.00	-4.20	41.67	6.83	34.43	33.13	100	360	Average
8	5725.00	61.06	74.00	-12.94	52.93	6.83	34.43	33.13	100	360	Peak

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

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

## Channel 140



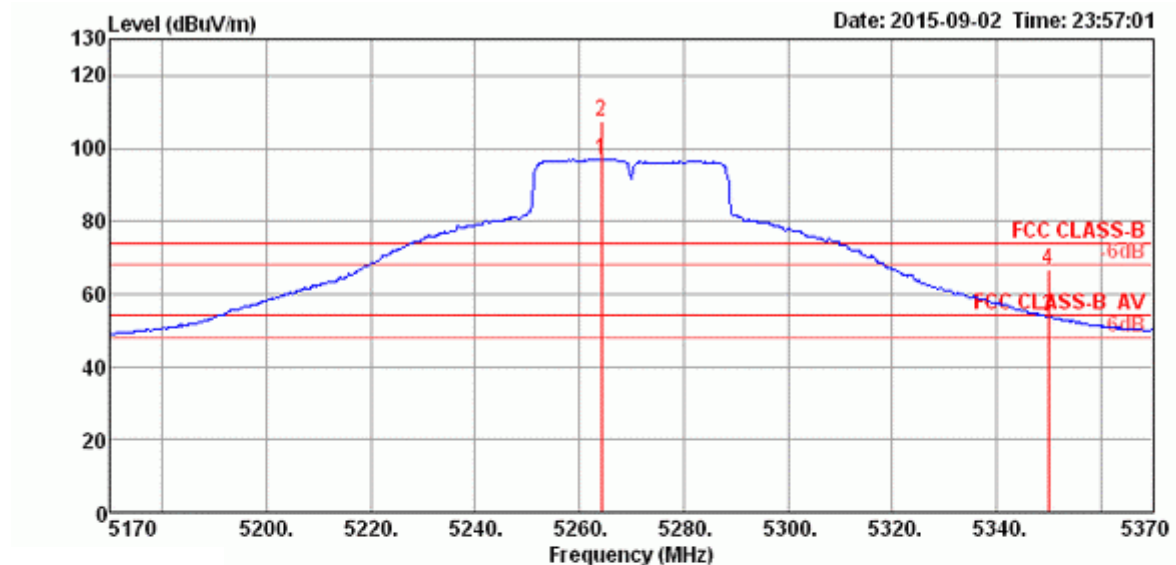
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5699.13	106.57			98.47	6.81	34.41	33.12	100	0	Peak	VERTICAL
2	5705.21	96.76			88.64	6.83	34.42	33.13	100	0	Average	VERTICAL
3	5725.00	68.01	68.20	-0.19	59.88	6.83	34.43	33.13	100	0	Peak	VERTICAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 54

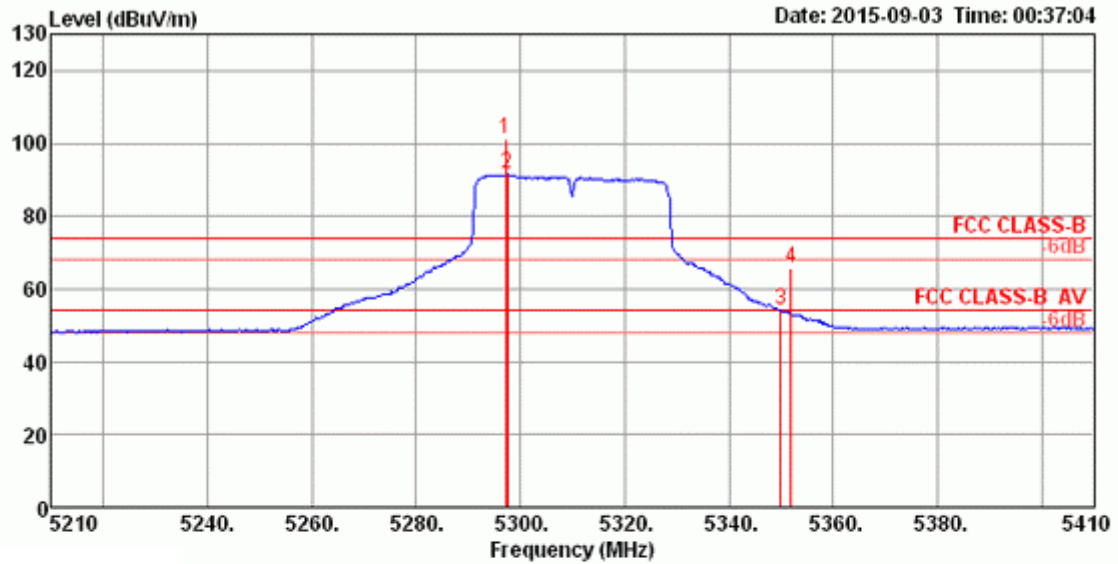


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5264.21	97.08			89.87	6.34	33.93	33.06	100	15	Average	VERTICAL
2	5264.21	107.64			100.43	6.34	33.93	33.06	100	15	Peak	VERTICAL
3	5350.00	53.73	54.00	-0.27	46.26	6.47	34.06	33.06	100	15	Average	VERTICAL
4	5350.00	66.90	74.00	-7.10	59.43	6.47	34.06	33.06	100	15	Peak	VERTICAL

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

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

## Channel 62



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5297.26	101.28			93.96	6.40	33.98	33.06	100	10	Peak	VERTICAL
2	5297.55	91.45			84.13	6.40	33.98	33.06	100	10	Average	VERTICAL
3	5350.00	53.97	54.00	-0.03	46.50	6.47	34.06	33.06	100	10	Average	VERTICAL
4	5352.03	65.78	74.00	-8.22	58.31	6.47	34.06	33.06	100	10	Peak	VERTICAL

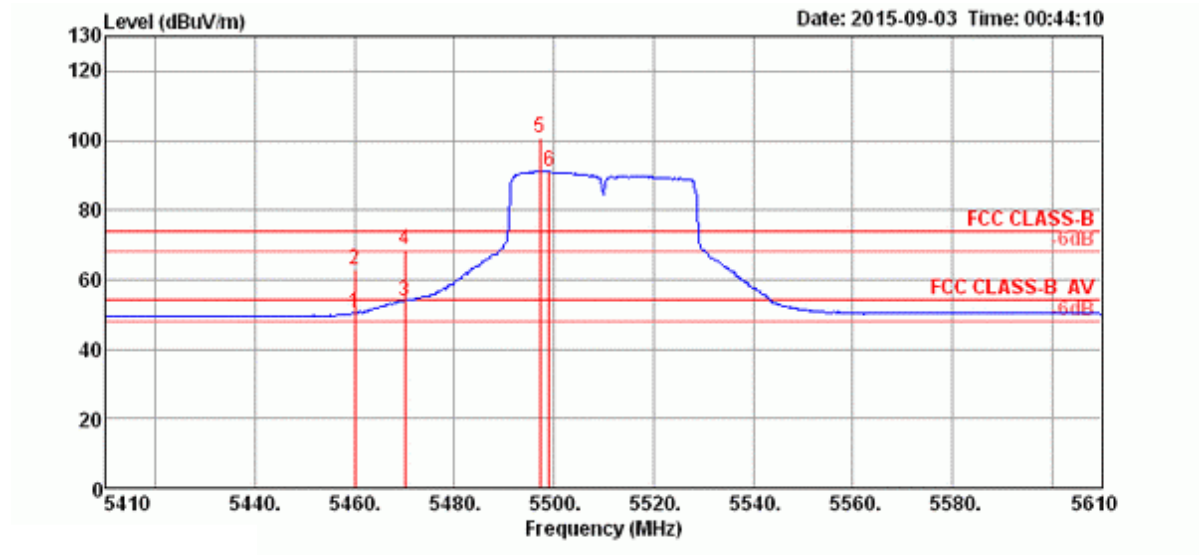
Item 1, 2 are the fundamental frequency at 5310 MHz.

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



Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 102, 110, 134 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 102

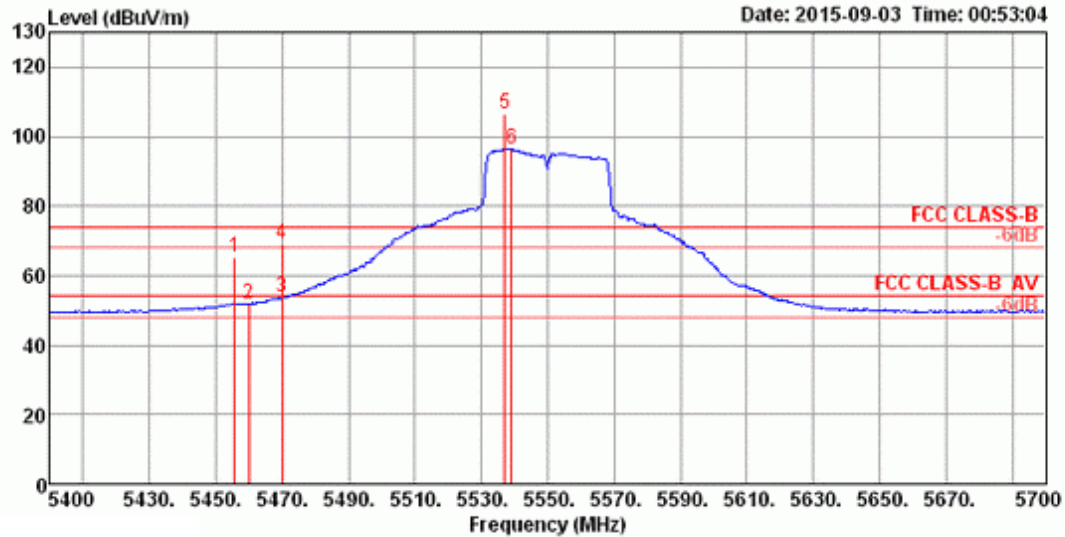


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5460.00	50.25	54.00	-3.75	42.49	6.60	34.22	33.06	101	357 Average	VERTICAL
2	5460.00	62.67	74.00	-11.33	54.91	6.60	34.22	33.06	101	357 Peak	VERTICAL
3	5470.00	53.77	54.00	-0.23	45.98	6.60	34.25	33.06	101	357 Average	VERTICAL
4	5470.00	68.65	74.00	-5.35	60.86	6.60	34.25	33.06	101	357 Peak	VERTICAL
5	5497.26	100.89			93.02	6.63	34.30	33.06	101	357 Peak	VERTICAL
6	5499.00	91.30			83.43	6.63	34.30	33.06	101	357 Average	VERTICAL

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

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

## Channel 110

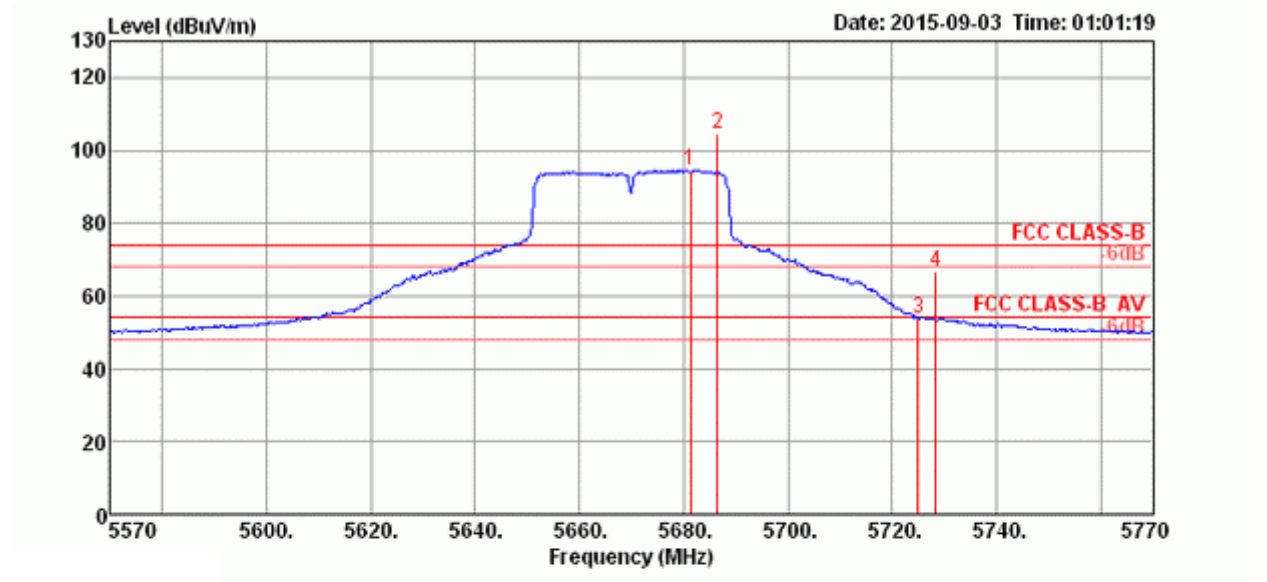


	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5455.66	65.06	74.00	-8.94	57.30	6.60	34.22	33.06	101	24 Peak	VERTICAL
2	5460.00	51.71	54.00	-2.29	43.95	6.60	34.22	33.06	101	24 Average	VERTICAL
3	5470.00	53.79	54.00	-0.21	46.00	6.60	34.25	33.06	101	24 Average	VERTICAL
4	5470.00	69.12	74.00	-4.88	61.33	6.60	34.25	33.06	101	24 Peak	VERTICAL
5	5536.98	106.42			98.50	6.68	34.32	33.08	101	24 Peak	VERTICAL
6	5539.15	96.42			88.50	6.68	34.32	33.08	101	24 Average	VERTICAL

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

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

## Channel 134



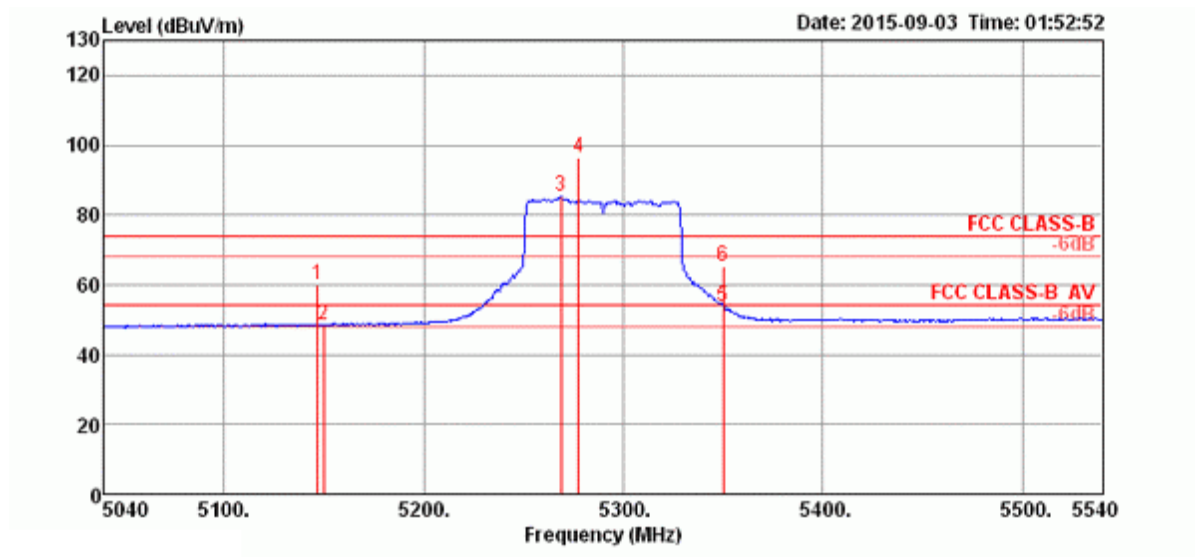
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5681.29	94.53			86.44	6.81	34.40	33.12	100	357 Average	VERTICAL
2	5686.50	104.72			96.62	6.81	34.41	33.12	100	357 Peak	VERTICAL
3	5725.00	53.96	54.00	-0.04	45.83	6.83	34.43	33.13	100	357 Average	VERTICAL
4	5728.47	66.48	74.00	-7.52	58.35	6.83	34.43	33.13	100	357 Peak	VERTICAL

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

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58, 106, 122 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 58

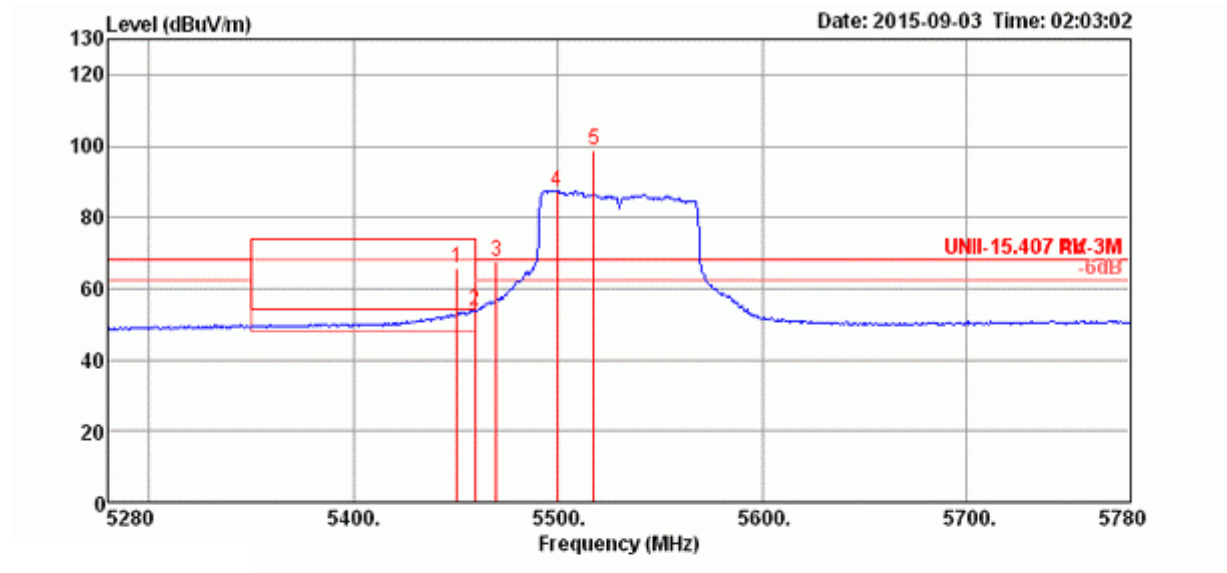


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.11	59.77	74.00	-14.23	52.87	6.21	33.74	33.05	100	351	Peak	VERTICAL
2	5150.00	48.63	54.00	-5.37	41.73	6.21	33.74	33.05	100	351	Average	VERTICAL
3	5269.02	85.20			77.99	6.34	33.93	33.06	100	351	Average	VERTICAL
4	5277.70	96.21			88.95	6.37	33.95	33.06	100	351	Peak	VERTICAL
5	5350.00	53.88	54.00	-0.12	46.41	6.47	34.06	33.06	100	351	Average	VERTICAL
6	5350.00	65.16	74.00	-8.84	57.69	6.47	34.06	33.06	100	351	Peak	VERTICAL

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

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

## Channel 106

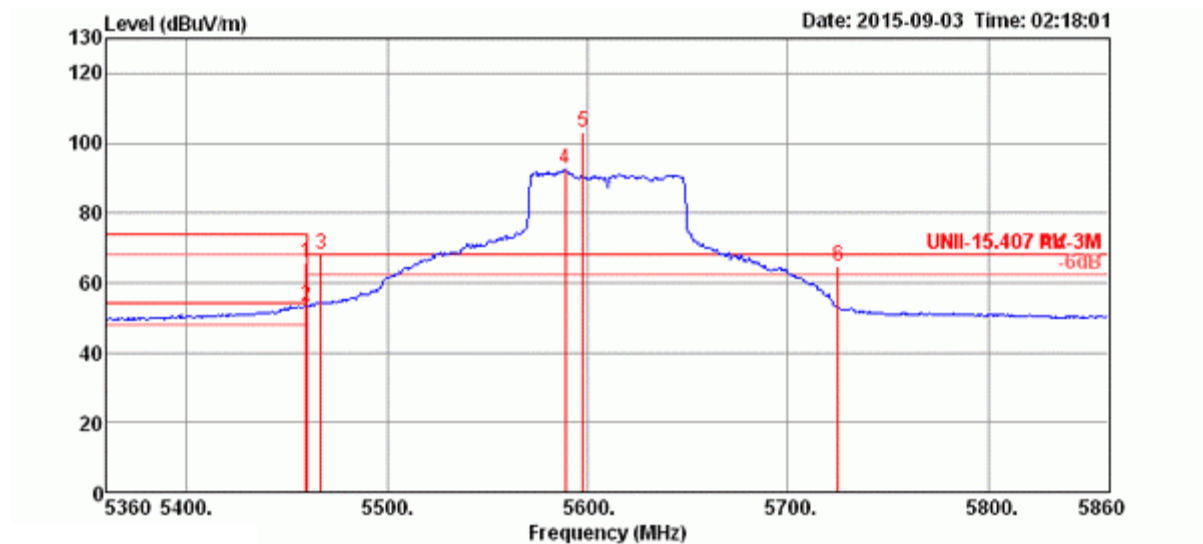


	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	5450.59	65.81	74.00	-8.19	58.05	6.60	34.22	33.06	100	359 Peak	VERTICAL
2	5459.50	53.73	54.00	-0.27	45.97	6.60	34.22	33.06	100	359 Average	VERTICAL
3	5470.00	67.81	68.20	-0.39	60.02	6.60	34.25	33.06	100	359 Peak	VERTICAL
4	5499.61	87.46			79.59	6.63	34.30	33.06	100	359 Average	VERTICAL
5	5517.70	98.70			90.81	6.65	34.31	33.07	100	359 Peak	VERTICAL

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

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

## Channel 122



	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg	
1	5459.28	65.84	74.00	-8.16	58.08	6.60	34.22	33.06	100	352 Peak	VERTICAL
2	5460.00	53.23	54.00	-0.77	45.47	6.60	34.22	33.06	100	352 Average	VERTICAL
3	5467.11	67.94	68.20	-0.26	60.15	6.60	34.25	33.06	100	352 Peak	VERTICAL
4	5589.02	92.53			84.55	6.72	34.35	33.09	100	352 Average	VERTICAL
5	5597.70	103.31			95.33	6.72	34.35	33.09	100	352 Peak	VERTICAL
6	5725.00	64.79	68.20	-3.41	56.66	6.83	34.43	33.13	100	352 Peak	VERTICAL

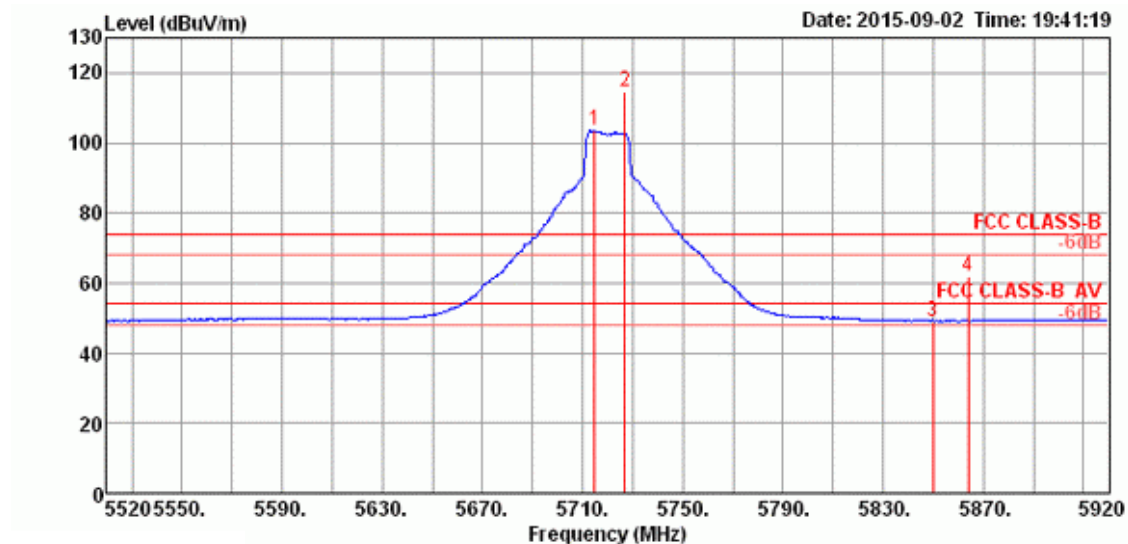
Item 4, 5 are the fundamental frequency at 5610 MHz.

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

### Straddle Channel

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11a CH 144 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 144



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5714.79	103.49			95.37	6.83	34.42	33.13	100	1	Average	VERTICAL
2	5726.95	114.45			106.32	6.83	34.43	33.13	100	1	Peak	VERTICAL
3	5850.00	49.16	54.00	-4.84	40.87	6.95	34.51	33.17	100	1	Average	VERTICAL
4	5863.89	61.93	74.00	-12.07	53.62	6.97	34.52	33.18	100	1	Peak	VERTICAL

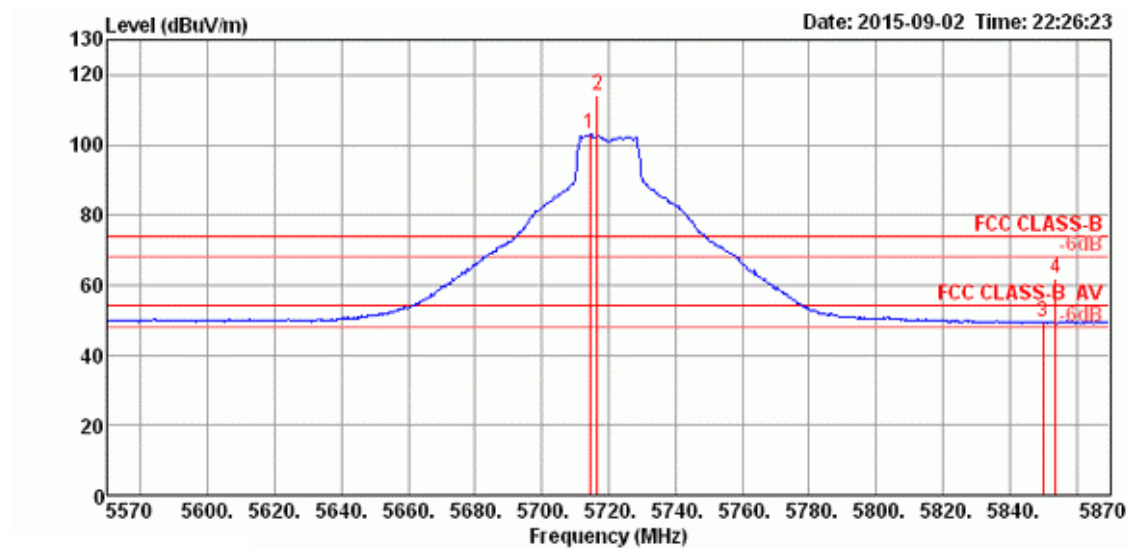
Item 1, 2 are the fundamental frequency at 5720 MHz.

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



Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 144



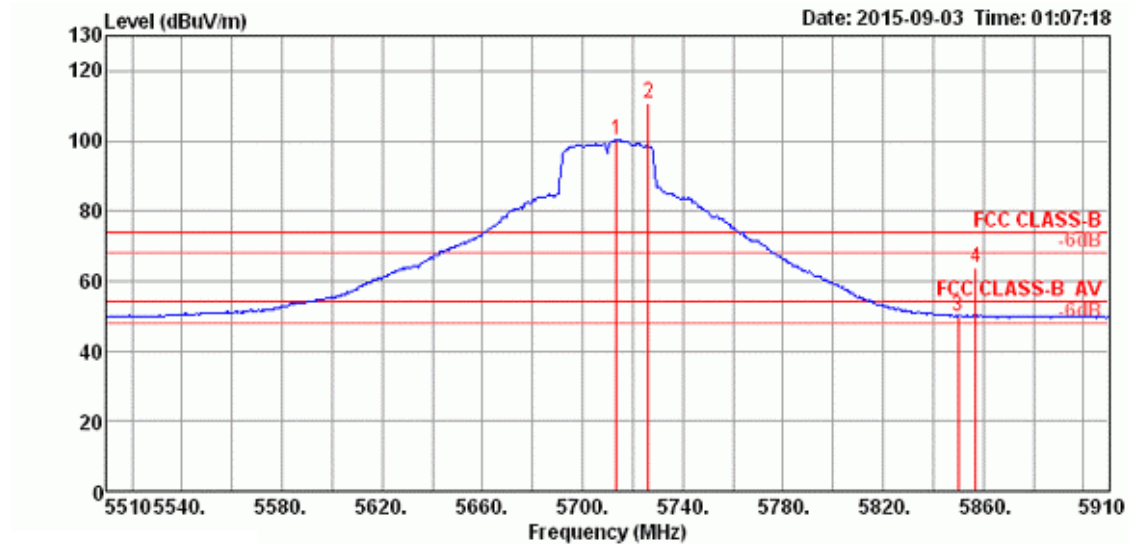
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5714.36	103.15			95.03	6.83	34.42	33.13	101	2	Average	HORIZONTAL
2	5716.53	114.02			105.90	6.83	34.42	33.13	101	2	Peak	HORIZONTAL
3	5850.00	49.37	54.00	-4.63	41.08	6.95	34.51	33.17	101	2	Average	HORIZONTAL
4	5853.91	61.90	74.00	-12.10	53.60	6.95	34.52	33.17	101	2	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5720 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 142



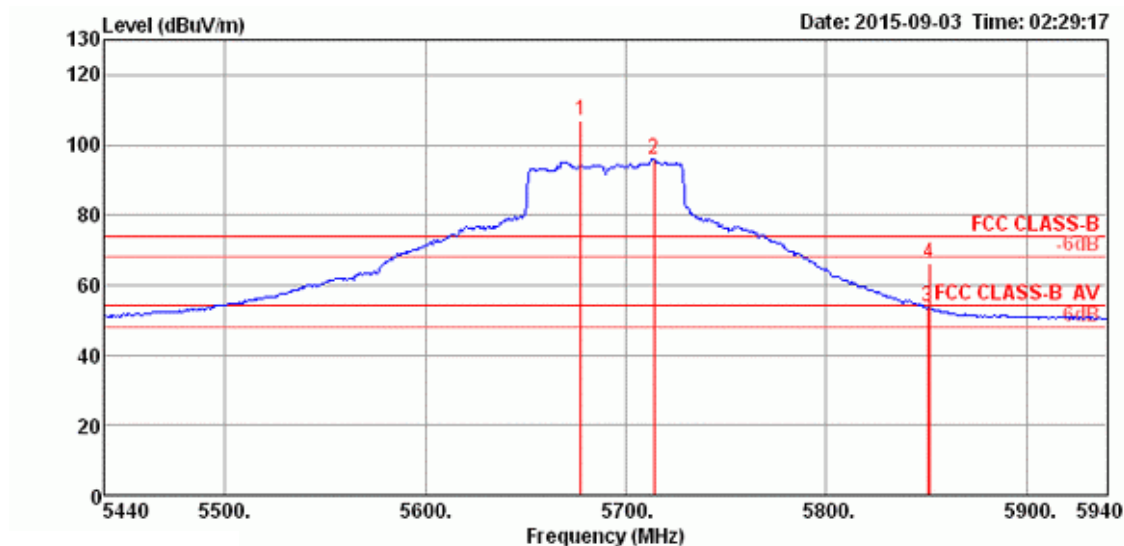
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5713.47	100.29			92.17	6.83	34.42	33.13	101	360	Average	VERTICAL
2	5726.21	110.63			102.50	6.83	34.43	33.13	101	360	Peak	VERTICAL
3	5850.00	49.79	54.00	-4.21	41.50	6.95	34.51	33.17	101	360	Average	VERTICAL
4	5856.95	63.78	74.00	-10.22	55.48	6.95	34.52	33.17	101	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5710 MHz.

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

Temperature	26°C	Humidity	57%
Test Engineer	Roki Liu	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 5 + Chain 6 + Chain 7 + Chain 8

### Channel 138



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5677.70	107.07			99.00	6.79	34.40	33.12	100	360	Peak	VERTICAL
2	5713.88	95.91			87.79	6.83	34.42	33.13	100	360	Average	VERTICAL
3	5850.72	53.74	54.00	-0.26	45.45	6.95	34.51	33.17	100	360	Average	VERTICAL
4	5851.45	65.96	74.00	-8.04	57.67	6.95	34.51	33.17	100	360	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5690 MHz.

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

Note:

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

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

## 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  $\pm 20$  ppm maximum for the 5 GHz band (IEEE 802.11n specification).

### 4.8.2. Measuring Instruments and Setting

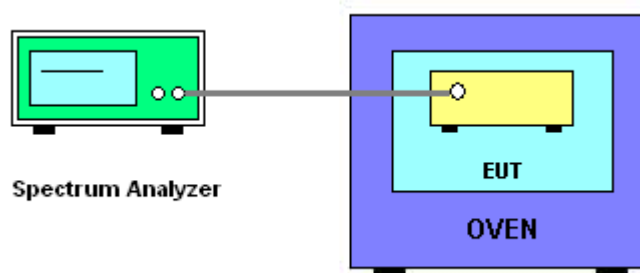
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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.  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f)/f_c \times 10^6$  ppm and the limit is less than  $\pm 20$  ppm (IEEE 802.11n specification).
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  $0^\circ\text{C} \sim 40^\circ\text{C}$ .

### 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	45%
Test Engineer	Mars Lin	Test Date	Sep. 04, 2015 ~ Dec. 23, 2015

For Radio 2

Mode: 20 MHz / Chain 6

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9938	5299.9927	5299.9912	5299.9892
110.00	5299.9926	5299.9913	5299.9897	5299.9878
93.50	5299.9912	5299.9903	5299.9889	5299.9871
Max. Deviation (MHz)	0.0088	0.0097	0.0111	0.0129
Max. Deviation (ppm)	1.66	1.83	2.09	2.43
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5299.9951	5299.9937	5299.9918	5299.9896
10	5299.9938	5299.9925	5299.9910	5299.9892
20	5299.9926	5299.9913	5299.9897	5299.9878
30	5299.9912	5299.9901	5299.9887	5299.9871
40	5299.9897	5299.9884	5299.9868	5299.9849
Max. Deviation (MHz)	0.0120	0.0132	0.0147	0.0170
Max. Deviation (ppm)	2.26	2.49	2.77	3.20
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9956	5579.9945	5579.9930	5579.9910
110.00	5579.9944	5579.9931	5579.9915	5579.9896
93.50	5579.9930	5579.9921	5579.9907	5579.9889
Max. Deviation (MHz)	<b>0.0070</b>	<b>0.0079</b>	<b>0.0093</b>	<b>0.0111</b>
Max. Deviation (ppm)	<b>1.26</b>	<b>1.42</b>	<b>1.67</b>	<b>2.00</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5579.9969	5579.9955	5579.9936	5579.9914
10	5579.9956	5579.9943	5579.9928	5579.9910
20	5579.9944	5579.9931	5579.9915	5579.9896
30	5579.9930	5579.9919	5579.9905	5579.9889
40	5579.9915	5579.9902	5579.9886	5579.9867
Max. Deviation (MHz)	<b>0.0102</b>	<b>0.0114</b>	<b>0.0129</b>	<b>0.0152</b>
Max. Deviation (ppm)	<b>1.84</b>	<b>2.05</b>	<b>2.32</b>	<b>2.73</b>
Result	Complies			

Mode: 40 MHz / Chain 6

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9982	5309.9971	5309.9956	5309.9936
110.00	5309.9970	5309.9957	5309.9941	5309.9922
93.50	5309.9956	5309.9947	5309.9933	5309.9915
Max. Deviation (MHz)	<b>0.0044</b>	<b>0.0053</b>	<b>0.0067</b>	<b>0.0085</b>
Max. Deviation (ppm)	<b>0.84</b>	<b>1.01</b>	<b>1.27</b>	<b>1.61</b>
Result	Complies			

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5309.9995	5309.9981	5309.9962	5309.9940
10	5309.9982	5309.9969	5309.9954	5309.9936
20	5309.9970	5309.9957	5309.9941	5309.9922
30	5309.9956	5309.9945	5309.9931	5309.9915
40	5309.9941	5309.9928	5309.9912	5309.9893
Max. Deviation (MHz)	<b>0.0076</b>	<b>0.0088</b>	<b>0.0103</b>	<b>0.0126</b>
Max. Deviation (ppm)	<b>1.44</b>	<b>1.66</b>	<b>1.95</b>	<b>2.38</b>
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9943	5549.9932	5549.9917	5549.9897
110.00	5549.9931	5549.9918	5549.9902	5549.9883
93.50	5549.9917	5549.9908	5549.9894	5549.9876
Max. Deviation (MHz)	<b>0.0084</b>	<b>0.0093</b>	<b>0.0107</b>	<b>0.0125</b>
Max. Deviation (ppm)	<b>1.50</b>	<b>1.67</b>	<b>1.92</b>	<b>2.24</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5549.9956	5549.9942	5549.9923	5549.9901
10	5549.9943	5549.9930	5549.9915	5549.9897
20	5549.9931	5549.9918	5549.9902	5549.9883
30	5549.9917	5549.9906	5549.9892	5549.9876
40	5549.9902	5549.9889	5549.9873	5549.9854
Max. Deviation (MHz)	<b>0.0116</b>	<b>0.0127</b>	<b>0.0143</b>	<b>0.0166</b>
Max. Deviation (ppm)	<b>2.08</b>	<b>2.30</b>	<b>2.57</b>	<b>2.98</b>
Result	Complies			



Mode: 80 MHz / Chain 6

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9955	5289.9944	5289.9929	5289.9909
110.00	5289.9943	5289.9930	5289.9914	5289.9895
93.50	5289.9929	5289.9920	5289.9906	5289.9888
Max. Deviation (MHz)	0.0071	0.0080	0.0094	0.0112
Max. Deviation (ppm)	1.34	1.51	1.77	2.11
Result	Complies			

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5289.9968	5289.9954	5289.9935	5289.9913
10	5289.9955	5289.9942	5289.9927	5289.9909
20	5289.9943	5289.9930	5289.9914	5289.9895
30	5289.9929	5289.9918	5289.9904	5289.9888
40	5289.9914	5289.9901	5289.9885	5289.9866
Max. Deviation (MHz)	0.0103	0.0115	0.0130	0.0153
Max. Deviation (ppm)	1.94	2.17	2.45	2.89
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9962	5529.9951	5529.9936	5529.9916
110.00	5529.9950	5529.9937	5529.9921	5529.9902
93.50	5529.9936	5529.9927	5529.9913	5529.9895
Max. Deviation (MHz)	<b>0.0064</b>	<b>0.0073</b>	<b>0.0087</b>	<b>0.0105</b>
Max. Deviation (ppm)	<b>1.15</b>	<b>1.31</b>	<b>1.57</b>	<b>1.89</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5529.9975	5529.9961	5529.9942	5529.9920
10	5529.9962	5529.9949	5529.9934	5529.9916
20	5529.9950	5529.9937	5529.9921	5529.9902
30	5529.9936	5529.9925	5529.9911	5529.9895
40	5529.9921	5529.9908	5529.9892	5529.9873
Max. Deviation (MHz)	<b>0.0096</b>	<b>0.0108</b>	<b>0.0123</b>	<b>0.0146</b>
Max. Deviation (ppm)	<b>1.73</b>	<b>1.95</b>	<b>2.22</b>	<b>2.63</b>
Result	Complies			

For Radio 3

Mode: 20 MHz / Chain 9

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5300.0074	5300.0073	5300.0062	5300.0050
110.00	5300.0066	5300.0054	5300.0045	5300.0035
93.50	5300.0062	5300.0057	5300.0051	5300.0044
Max. Deviation (MHz)	<b>0.0074</b>	<b>0.0073</b>	<b>0.0062</b>	<b>0.0050</b>
Max. Deviation (ppm)	<b>1.40</b>	<b>1.38</b>	<b>1.17</b>	<b>0.94</b>
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5300.0073	5300.0060	5300.0044	5300.0025
10	5300.0069	5300.0056	5300.0040	5300.0021
20	5300.0066	5300.0062	5300.0054	5300.0042
30	5300.0064	5300.0051	5300.0035	5300.0016
40	5300.0061	5300.0048	5300.0032	5300.0013
Max. Deviation (MHz)	<b>0.0073</b>	<b>0.0062</b>	<b>0.0054</b>	<b>0.0042</b>
Max. Deviation (ppm)	<b>1.38</b>	<b>1.17</b>	<b>1.02</b>	<b>0.79</b>
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5580.0063	5580.0062	5580.0051	5580.0019
110.00	5580.0054	5580.0044	5580.0032	5580.0019
93.50	5580.0050	5580.0045	5580.0039	5580.0007
Max. Deviation (MHz)	<b>0.0063</b>	<b>0.0062</b>	<b>0.0051</b>	<b>0.0019</b>
Max. Deviation (ppm)	<b>1.13</b>	<b>1.11</b>	<b>0.91</b>	<b>0.34</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5580.0013	5580.0000	5579.9984	5579.9965
10	5580.0009	5579.9996	5579.9980	5579.9961
20	5580.0006	5580.0002	5579.9994	5579.9982
30	5580.0004	5579.9991	5579.9975	5579.9956
40	5580.0001	5579.9988	5579.9972	5579.9953
Max. Deviation (MHz)	<b>0.0013</b>	<b>0.0012</b>	<b>0.0028</b>	<b>0.0047</b>
Max. Deviation (ppm)	<b>0.23</b>	<b>0.22</b>	<b>0.50</b>	<b>0.84</b>
Result	Complies			

Mode: 40 MHz / Chain 9

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9990	5309.9989	5309.9978	5309.9966
110.00	5309.9982	5309.9970	5309.9961	5309.9951
93.50	5309.9978	5309.9973	5309.9967	5309.9960
Max. Deviation (MHz)	0.0022	0.0030	0.0039	0.0049
Max. Deviation (ppm)	0.41	0.56	0.73	0.92
Result	Complies			

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5309.9989	5309.9976	5309.9960	5309.9941
10	5309.9985	5309.9972	5309.9956	5309.9937
20	5309.9982	5309.9978	5309.9970	5309.9958
30	5309.9980	5309.9967	5309.9951	5309.9932
40	5309.9977	5309.9964	5309.9948	5309.9929
Max. Deviation (MHz)	0.0023	0.0036	0.0052	0.0071
Max. Deviation (ppm)	0.43	0.68	0.98	1.34
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5550.0069	5550.0068	5550.0057	5550.0025
110.00	5550.0060	5550.0050	5550.0038	5550.0025
93.50	5550.0056	5550.0051	5550.0045	5550.0013
Max. Deviation (MHz)	<b>0.0069</b>	<b>0.0068</b>	<b>0.0057</b>	<b>0.0025</b>
Max. Deviation (ppm)	<b>1.24</b>	<b>1.23</b>	<b>1.03</b>	<b>0.45</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5550.0067	5550.0054	5550.0038	5550.0019
10	5550.0063	5550.0050	5550.0034	5550.0015
20	5550.0060	5550.0056	5550.0048	5550.0036
30	5550.0058	5550.0045	5550.0029	5550.0010
40	5550.0055	5550.0042	5550.0026	5550.0007
Max. Deviation (MHz)	<b>0.0067</b>	<b>0.0056</b>	<b>0.0048</b>	<b>0.0036</b>
Max. Deviation (ppm)	<b>1.21</b>	<b>1.01</b>	<b>0.86</b>	<b>0.65</b>
Result	Complies			

Mode: 80 MHz / Chain 9

#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5290.0059	5290.0058	5290.0047	5290.0035
110.00	5290.0051	5290.0039	5290.0030	5290.0020
93.50	5290.0047	5290.0042	5290.0036	5290.0029
Max. Deviation (MHz)	0.0059	0.0058	0.0047	0.0035
Max. Deviation (ppm)	1.12	1.10	0.89	0.66
Result	Complies			

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5290.0058	5290.0045	5290.0029	5290.0010
10	5290.0054	5290.0041	5290.0025	5290.0006
20	5290.0051	5290.0047	5290.0039	5290.0027
30	5290.0049	5290.0036	5290.0020	5290.0001
40	5290.0046	5290.0033	5290.0017	5289.9998
Max. Deviation (MHz)	0.0058	0.0047	0.0039	0.0027
Max. Deviation (ppm)	1.10	0.89	0.74	0.51
Result	Complies			

### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5530.0073	5530.0072	5530.0061	5530.0029
110.00	5530.0064	5530.0054	5530.0042	5530.0029
93.50	5530.0060	5530.0055	5530.0049	5530.0017
Max. Deviation (MHz)	<b>0.0073</b>	<b>0.0072</b>	<b>0.0061</b>	<b>0.0029</b>
Max. Deviation (ppm)	<b>1.32</b>	<b>1.30</b>	<b>1.10</b>	<b>0.52</b>
Result	Complies			

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5530.0073	5530.0060	5530.0044	5530.0025
10	5530.0069	5530.0056	5530.0040	5530.0021
20	5530.0066	5530.0062	5530.0054	5530.0042
30	5530.0064	5530.0051	5530.0035	5530.0016
40	5530.0061	5530.0048	5530.0032	5530.0013
Max. Deviation (MHz)	<b>0.0073</b>	<b>0.0062</b>	<b>0.0054</b>	<b>0.0042</b>
Max. Deviation (ppm)	<b>1.32</b>	<b>1.12</b>	<b>0.98</b>	<b>0.76</b>
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	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 02, 2014	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	Dec. 03, 2014	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D&ATT-06	22021&SP-01	20MHz ~ 2GHz	Nov. 18, 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. 28, 2014	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. 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)
Spectrum analyzer	R&S	FSP40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Oct. 13, 2015	Conducted (TH01-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)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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)

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%