Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Horizontal

	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	15685.91	64.03	74.00	-9.97	43.54	16.45	37.91	33.87	249	111	Peak	HORIZONTAL
2	15686.16	50.97	54.00	-3.03	30.48	16.45	37.91	33.87	249	111	Average	HORIZONTAL

Vertical

	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	15684.95	51.02	54.00	-2.98	30.53	16.45	37.91	33.87	211	156	Average	VERTICAL
2	15692.10	63.66	74.00	-10.34	43.21	16.48	37.84	33.87	211	156	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Horizontal

	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	11505.27	46.28	54.00	-7.72	26.21	14.24	39.20	33.37	192	150	Average	HORIZONTAL
2	11505.40	59.21	74.00	-14.79	39.14	14.24	39.20	33.37	192	151	Peak	HORIZONTAL

Vertical

	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	11506.08	58.98	74.00	-15.02	38.91	14.24	39.20	33.37	214	138	Peak	VERTICAL
2	11506.50	46.28	54.00	-7.72	26.21	14.24	39.20	33.37	214	138	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Horizontal

	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	11584.93	46.92	54.00	-7.08	26.72	14.40	39.20	33.40	253	139	Average	HORIZONTAL
2	11585.02	59.86	74.00	-14.14	39.66	14.40	39.20	33.40	253	139	Peak	HORIZONTAL

Vertical

	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	11585.06	46.69	54.00	-7.31	26.49	14.40	39.20	33.40	237	150	Average	VERTICAL
2	11589.85	59.89	74.00	-14.11	39.69	14.40	39.20	33.40	237	150	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Horizontal

	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	15630.20	50.90	54.00	-3.10	30.31	16.43	37.98	33.82	150	73	Average	HORIZONTAL
2	15630.68	64.43	74.00	-9.57	43.84	16.43	37.98	33.82	150	73	Peak	HORIZONTAL

Vertical

	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	15629.58	63.90	74.00	-10.10	43.31	16.43	37.98	33.82	150	109	Peak	VERTICAL
2	15629.92	50.76	54.00	-3.24	30.17	16.43	37.98	33.82	150	109	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Horizontal

	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	11549.68	59.70	74.00	-14.30	39.60	14.29	39.20	33.39	150	218	Peak	HORIZONTAL
2	11550.37	46.37	54.00	-7.63	26.21	14.35	39.20	33.39	150	218	Average	HORIZONTAL

Vertical

	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	11549.99	59.26	74.00	-14.74	39.16	14.29	39.20	33.39	150	197	Peak	VERTICAL
2	11550.94	46.26	54.00	-7.74	26.10	14.35	39.20	33.39	150	197	Average	VERTICAL

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.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15541.24	65.03	74.00	-8.97	44.26	16.37	38.13	33.73	143	153	Peak	HORIZONTAL
2	15542.96	50.76	54.00	-3.24	29.99	16.37	38.13	33.73	143	153	Average	HORIZONTAL

Vertical

	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	15537.52	64.02	74.00	-9.98	43.25	16.37	38.13	33.73	135	143	Peak	VERTICAL
2	15538.48	49.56	54.00	-4.44	28.79	16.37	38.13	33.73	135	143	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15594.76	51.07	54.00	-2.93	30.39	16.40	38.05	33.77	184	209	Average	HORIZONTAL
2	15605.92	63.96	74.00	-10.04	43.32	16.43	37.98	33.77	184	209	Peak	HORIZONTAL

Vertical

	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	15591.36	63.44	74.00	-10.56	42.76	16.40	38.05	33.77	171	185	Peak	VERTICAL
2	15601.12	51.23	54.00	-2.77	30.59	16.43	37.98	33.77	171	185	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15711.52	63.68	74.00	-10.32	43.23	16.48	37.84	33.87	190	205	Peak	HORIZONTAL
2	15717.48	51.22	54.00	-2.78	30.82	16.48	37.84	33.92	190	205	Average	HORIZONTAL

Vertical

	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	15717.52	51.20	54.00	-2.80	30.80	16.48	37.84	33.92	193	200	Average	VERTICAL
2	15719.16	63.92	74.00	-10.08	43.52	16.48	37.84	33.92	193	200	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11487.37	60.23	74.00	-13.77	40.16	14.24	39.20	33.37	177	177	Peak	HORIZONTAL
2	11494.35	47.05	54.00	-6.95	26.98	14.24	39.20	33.37	177	177	Average	HORIZONTAL

Vertical

	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	11488.20	59.74	74.00	-14.26	39.67	14.24	39.20	33.37	197	190	Peak	VERTICAL
2	11492.88	47.01	54.00	-6.99	26.94	14.24	39.20	33.37	197	190	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11566.38	59.49	74.00	-14.51	39.33	14.35	39.20	33.39	207	191	Peak	HORIZONTAL
2	11568.43	46.73	54.00	-7.27	26.57	14.35	39.20	33.39	207	191	Average	HORIZONTAL

Vertical

	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	11569.77	59.62	74.00	-14.38	39.46	14.35	39.20	33.39	202	197	Peak	VERTICAL
2	11572.78	46.81	54.00	-7.19	26.65	14.35	39.20	33.39	202	197	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11644.70	47.26	54.00	-6.74	27.02	14.45	39.20	33.41	202	187	Average	HORIZONTAL
2	11647.92	60.18	74.00	-13.82	39.94	14.45	39.20	33.41	202	187	Peak	HORIZONTAL

Vertical

	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	11645.44	59.46	74.00	-14.54	39.22	14.45	39.20	33.41	235	170	Peak	VERTICAL
2	11651.70	47.25	54.00	-6.75	26.95	14.51	39.20	33.41	235	170	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15567.33	51.33	54.00	-2.67	30.65	16.40	38.05	33.77	222	152	Average	HORIZONTAL
2	15571.84	64.94	74.00	-9.06	44.26	16.40	38.05	33.77	222	152	Peak	HORIZONTAL

Vertical

j

	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	15564.83	51.32	54.00	-2.68	30.64	16.40	38.05	33.77	230	161	Average	VERTICAL
2	15572.67	63.89	74.00	-10.11	43.21	16.40	38.05	33.77	230	161	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15685.57	51.29	54.00	-2.71	30.80	16.45	37.91	33.87	213	157	Average	HORIZONTAL
2	15686.88	64.47	74.00	-9.53	43.98	16.45	37.91	33.87	213	157	Peak	HORIZONTAL

Vertical

	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	15689.81	64.32	74.00	-9.68	43.83	16.45	37.91	33.87	202	150	Peak	VERTICAL
2	15693.77	51.22	54.00	-2.78	30.77	16.48	37.84	33.87	203	150	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11507.73	46.85	54.00	-7.15	26.78	14.24	39.20	33.37	181	93	Average	HORIZONTAL
2	11513.92	60.02	74.00	-13.98	39.96	14.24	39.20	33.38	181	93	Peak	HORIZONTAL

Vertical

	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	11506.21	46.94	54.00	-7.06	26.87	14.24	39.20	33.37	185	93	Average	VERTICAL
2	11515.17	60.14	74.00	-13.86	40.08	14.24	39.20	33.38	185	93	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11585.36	46.87	54.00	-7.13	26.67	14.40	39.20	33.40	201	120	Average	HORIZONTAL
2	11587.48	59.10	74.00	-14.90	38.90	14.40	39.20	33.40	201	120	Peak	HORIZONTAL

Vertical

	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	11585.15	46.91	54.00	-7.09	26.71	14.40	39.20	33.40	208	123	Average	VERTICAL
2	11588.94	59.54	74.00	-14.46	39.34	14.40	39.20	33.40	208	123	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	15631.55	51.16	54.00	-2.84	30.57	16.43	37.98	33.82	226	132	Average	HORIZONTAL
2	15632.93	64.29	74.00	-9.71	43.70	16.43	37.98	33.82	226	132	Peak	HORIZONTAL

Vertical

	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	15632.25	51.13	54.00	-2.87	30.54	16.43	37.98	33.82	219	128	Average	VERTICAL
2	15634.39	64.14	74.00	-9.86	43.55	16.43	37.98	33.82	219	128	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 26, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Horizontal

	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	11551.02	46.65	54.00	-7.35	26.49	14.35	39.20	33.39	227	164	Average	HORIZONTAL
2	11553.09	59.59	74.00	-14.41	39.43	14.35	39.20	33.39	262	164	Peak	HORIZONTAL

Vertical

	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	11545.80	59.85	74.00	-14.15	39.74	14.29	39.20	33.38	183	161	Peak	VERTICAL
2	11549.32	46.60	54.00	-7.40	26.50	14.29	39.20	33.39	183	161	Average	VERTICAL

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.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15540.00	64.71	74.00	-9.29	43.94	16.37	38.13	33.73	150	26	Peak	HORIZONTAL
2	15540.00	51.20	54.00	-2.80	30.43	16.37	38.13	33.73	150	26	Average	HORIZONTAL

Vertical

	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	15540.00	64.71	74.00	-9.29	43.94	16.37	38.13	33.73	150	13	Peak	VERTICAL
2	15540.00	51.29	54.00	-2.71	30.52	16.37	38.13	33.73	150	13	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15600.00	64.73	74.00	-9.27	44.05	16.40	38.05	33.77	150	57	Peak	HORIZONTAL
2	15600.00	50.96	54.00	-3.04	30.28	16.40	38.05	33.77	150	57	Average	HORIZONTAL

Vertical

	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	15600.00	65.02	74.00	-8.98	44.34	16.40	38.05	33.77	150	46	Peak	VERTICAL
2	15600.00	50.84	54.00	-3.16	30.16	16.40	38.05	33.77	150	46	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15720.00	63.90	74.00	-10.10	43.50	16.48	37.84	33.92	150	99	Peak	HORIZONTAL
2	15720.00	50.83	54.00	-3.17	30.43	16.48	37.84	33.92	150	99	Average	HORIZONTAL

Vertical

	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	15720.00	64.41	74.00	-9.59	44.01	16.48	37.84	33.92	150	70	Peak	VERTICAL
2	15720.00	50.94	54.00	-3.06	30.54	16.48	37.84	33.92	150	70	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11490.00	46.01	54.00	-7.99	25.94	14.24	39.20	33.37	150	314	Average	HORIZONTAL
2	11490.00	59.64	74.00	-14.36	39.57	14.24	39.20	33.37	150	314	Peak	HORIZONTAL

Vertical

	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	11490.00	59.32	74.00	-14.68	39.25	14.24	39.20	33.37	150	330	Peak	VERTICAL
2	11490.00	46.05	54.00	-7.95	25.98	14.24	39.20	33.37	150	330	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11569.71	46.31	54.00	-7.69	26.15	14.35	39.20	33.39	150	243	Average	HORIZONTAL
2	11570.42	59.64	74.00	-14.36	39.48	14.35	39.20	33.39	150	243	Peak	HORIZONTAL

Vertical

	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	11569.65	59.60	74.00	-14.40	39.44	14.35	39.20	33.39	150	277	Peak	VERTICAL
2	11570.44	46.39	54.00	-7.61	26.23	14.35	39.20	33.39	150	277	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11649.96	60.25	74.00	-13.75	40.01	14.45	39.20	33.41	150	172	Peak	HORIZONTAL
2	11650.18	46.68	54.00	-7.32	26.44	14.45	39.20	33.41	150	172	Average	HORIZONTAL

Vertical

	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	11650.09	60.42	74.00	-13.58	40.18	14.45	39.20	33.41	150	209	Peak	VERTICAL
2	11650.46	46.59	54.00	-7.41	26.35	14.45	39.20	33.41	150	209	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15570.39	51.29	54.00	-2.71	30.61	16.40	38.05	33.77	150	227	Average	HORIZONTAL
2	15570.43	64.77	74.00	-9.23	44.09	16.40	38.05	33.77	150	227	Peak	HORIZONTAL

Vertical

	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	15569.70	64.21	74.00	-9.79	43.53	16.40	38.05	33.77	150	192	Peak	VERTICAL
2	15569.93	51.07	54.00	-2.93	30.39	16.40	38.05	33.77	150	192	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15689.76	50.74	54.00	-3.26	30.25	16.45	37.91	33.87	150	174	Average	HORIZONTAL
2	15689.89	64.22	74.00	-9.78	43.73	16.45	37.91	33.87	150	174	Peak	HORIZONTAL

Vertical

	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	15689.83	63.93	74.00	-10.07	43.44	16.45	37.91	33.87	150	206	Peak	VERTICAL
2	15690.15	50.76	54.00	-3.24	30.27	16.45	37.91	33.87	150	206	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11509.60	59.28	74.00	-14.72	39.22	14.24	39.20	33.38	150	210	Peak	HORIZONTAL
2	11510.09	45.97	54.00	-8.03	25.91	14.24	39.20	33.38	150	210	Average	HORIZONTAL

Vertical

	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	11509.74	45.94	54.00	-8.06	25.88	14.24	39.20	33.38	150	194	Average	VERTICAL
2	11510.46	59.23	74.00	-14.77	39.17	14.24	39.20	33.38	150	194	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11589.78	59.46	74.00	-14.54	39.26	14.40	39.20	33.40	150	241	Peak	HORIZONTAL
2	11589.91	46.37	54.00	-7.63	26.17	14.40	39.20	33.40	150	241	Average	HORIZONTAL

Vertical

	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	11590.01	46.47	54.00	-7.53	26.27	14.40	39.20	33.40	150	222	Average	VERTICAL
2	11590.39	59.71	74.00	-14.29	39.51	14.40	39.20	33.40	150	222	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	15629.55	64.10	74.00	-9.90	43.51	16.43	37.98	33.82	150	274	Peak	HORIZONTAL
2	15630.02	50.62	54.00	-3.38	30.03	16.43	37.98	33.82	150	274	Average	HORIZONTAL

Vertical

	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	15630.27	50.52	54.00	-3.48	29.93	16.43	37.98	33.82	150	257	Average	VERTICAL
2	15630.38	64.02	74.00	-9.98	43.43	16.43	37.98	33.82	150	257	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 27, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Horizontal

	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	11549.85	59.23	74.00	-14.77	39.13	14.29	39.20	33.39	150	202	Peak	HORIZONTAL
2	11550.34	46.27	54.00	-7.73	26.11	14.35	39.20	33.39	150	202	Average	HORIZONTAL

Vertical

	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	11550.13	46.12	54.00	-7.88	26.02	14.29	39.20	33.39	150	233	Average	VERTICAL
2	11550.36	59.31	74.00	-14.69	39.15	14.35	39.20	33.39	150	233	Peak	VERTICAL

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.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15545.76	64.59	74.00	-9.41	43.82	16.37	38.13	33.73	211	80	Peak	HORIZONTAL
2	15547.55	50.78	54.00	-3.22	30.01	16.37	38.13	33.73	211	80	Average	HORIZONTAL

Vertical

	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	15541.30	64.54	74.00	-9.46	43.77	16.37	38.13	33.73	183	107	Peak	VERTICAL
2	15545.88	50.51	54.00	-3.49	29.74	16.37	38.13	33.73	183	107	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15596.99	63.71	74.00	-10.29	43.03	16.40	38.05	33.77	183	110	Peak	HORIZONTAL
2	15598.52	49.98	54.00	-4.02	29.30	16.40	38.05	33.77	183	110	Average	HORIZONTAL

Vertical

	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	15596.73	50.35	54.00	-3.65	29.67	16.40	38.05	33.77	192	102	Average	VERTICAL
2	15609.90	63.96	74.00	-10.04	43.37	16.43	37.98	33.82	192	102	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15722.75	50.16	54.00	-3.84	29.76	16.48	37.84	33.92	176	116	Average	HORIZONTAL
2	15726.74	63.02	74.00	-10.98	42.62	16.48	37.84	33.92	176	116	Peak	HORIZONTAL

Vertical

	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	15719.51	50.07	54.00	-3.93	29.67	16.48	37.84	33.92	171	120	Average	VERTICAL
2	15726.69	64.53	74.00	-9.47	44.13	16.48	37.84	33.92	171	120	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11495.76	61.36	74.00	-12.64	41.29	14.24	39.20	33.37	225	118	Peak	HORIZONTAL
2	11499.72	48.55	54.00	-5.45	28.48	14.24	39.20	33.37	225	118	Average	HORIZONTAL

Vertical

	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	11485.46	61.28	74.00	-12.72	41.21	14.24	39.20	33.37	210	102	Peak	VERTICAL
2	11495.50	48.30	54.00	-5.70	28.23	14.24	39.20	33.37	210	102	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11565.28	61.79	74.00	-12.21	41.63	14.35	39.20	33.39	240	139	Peak	HORIZONTAL
2	11565.49	48.26	54.00	-5.74	28.10	14.35	39.20	33.39	240	137	Average	HORIZONTAL

Vertical

	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	11563.00	62.00	74.00	-12.00	41.84	14.35	39.20	33.39	218	95	Peak	VERTICAL
2	11566.04	48.24	54.00	-5.76	28.08	14.35	39.20	33.39	218	95	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11643.66	48.65	54.00	-5.35	28.41	14.45	39.20	33.41	229	126	Average	HORIZONTAL
2	11649.94	61.79	74.00	-12.21	41.55	14.45	39.20	33.41	229	126	Peak	HORIZONTAL

Vertical

	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	11640.22	48.64	54.00	-5.36	28.40	14.45	39.20	33.41	237	117	Average	VERTICAL
2	11654.37	61.79	74.00	-12.21	41.49	14.51	39.20	33.41	237	117	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15562.47	50.44	54.00	-3.56	29.76	16.40	38.05	33.77	200	104	Average	HORIZONTAL
2	15579.03	63.25	74.00	-10.75	42.57	16.40	38.05	33.77	200	104	Peak	HORIZONTAL

Vertical

	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	15562.50	50.58	54.00	-3.42	29.90	16.40	38.05	33.77	203	103	Average	VERTICAL
2	15574.60	63.00	74.00	-11.00	42.32	16.40	38.05	33.77	203	103	Peak	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15683.55	50.23	54.00	-3.77	29.74	16.45	37.91	33.87	211	115	Average	HORIZONTAL
2	15691.33	63.53	74.00	-10.47	43.08	16.48	37.84	33.87	211	115	Peak	HORIZONTAL

Vertical

	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	15682.01	63.23	74.00	-10.77	42.74	16.45	37.91	33.87	160	126	Peak	VERTICAL
2	15687.80	50.21	54.00	-3.79	29.72	16.45	37.91	33.87	160	126	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11507.28	62.07	74.00	-11.93	42.00	14.24	39.20	33.37	221	121	Peak	HORIZONTAL
2	11507.34	48.49	54.00	-5.51	28.42	14.24	39.20	33.37	221	121	Average	HORIZONTAL

Vertical

	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	11501.69	61.24	74.00	-12.76	41.17	14.24	39.20	33.37	212	124	Peak	VERTICAL
2	11509.51	48.44	54.00	-5.56	28.38	14.24	39.20	33.38	212	124	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11588.21	61.49	74.00	-12.51	41.29	14.40	39.20	33.40	206	130	Peak	HORIZONTAL
2	11591.74	48.51	54.00	-5.49	28.31	14.40	39.20	33.40	206	130	Average	HORIZONTAL

Vertical

	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	11594.31	61.73	74.00	-12.27	41.53	14.40	39.20	33.40	208	134	Peak	VERTICAL
2	11598.68	48.26	54.00	-5.74	28.06	14.40	39.20	33.40	208	134	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	15629.25	63.82	74.00	-10.18	43.23	16.43	37.98	33.82	139	303	Peak	HORIZONTAL
2	15630.64	50.90	54.00	-3.10	30.31	16.43	37.98	33.82	139	303	Average	HORIZONTAL

Vertical

	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	15629.50	64.77	74.00	-9.23	44.18	16.43	37.98	33.82	142	310	Peak	VERTICAL
2	15630.16	50.95	54.00	-3.05	30.36	16.43	37.98	33.82	142	310	Average	VERTICAL

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Horizontal

	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	11549.72	47.11	54.00	-6.89	27.01	14.29	39.20	33.39	118	302	Average	HORIZONTAL
2	11550.86	59.78	74.00	-14.22	39.62	14.35	39.20	33.39	118	302	Peak	HORIZONTAL

Vertical

	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	11549.19	46.76	54.00	-7.24	26.66	14.29	39.20	33.39	124	298	Average	VERTICAL
2	11549.90	60.20	74.00	-13.80	40.10	14.29	39.20	33.39	124	298	Peak	VERTICAL

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 5.15-5.25 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 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions 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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Channel 36

	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	5150.00	62.84	74.00	-11.16	54.00	8.15	33.74	33.05	203	317	Peak	VERTICAL
2	5150.00	51.60	54.00	-2.40	42.76	8.15	33.74	33.05	203	317	Average	VERTICAL
3	5184.40	106.50			97.50	8.26	33.79	33.05	203	317	Average	VERTICAL
4	5184.80	117.79			108.79	8.26	33.79	33.05	203	317	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5145.60	60.83	74.00	-13.17	51.99	8.15	33.74	33.05	227	33	Peak	VERTICAL
2	5150.00	48.42	54.00	-5.58	39.58	8.15	33.74	33.05	227	33	Average	VERTICAL
3	5198.80	107.16			98.07	8.32	33.82	33.05	227	33	Average	VERTICAL
4	5199.60	118.14			109.05	8.32	33.82	33.05	227	33	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5112.20	60.41	74.00	-13.59	51.74	8.03	33.69	33.05	236	21	Peak	VERTICAL
2	5150.00	47.84	54.00	-6.16	39.00	8.15	33.74	33.05	236	21	Average	VERTICAL
3	5236.40	107.40			98.27	8.29	33.89	33.05	236	21	Average	VERTICAL
4	5242.40	119.27			110.15	8.29	33.89	33.06	236	21	Peak	VERTICAL
5	5355.80	62.23	74.00	-11.77	53.02	8.19	34.08	33.06	236	21	Peak	VERTICAL
6	5376.20	49.40	54.00	-4.60	40.17	8.18	34.11	33.06	236	21	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Channel 149

	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	5713.20	63.85	68.20	-4.35	54.04	8.51	34.43	33.13	204	354	Peak	VERTICAL
2	5723.60	76.56	78.20	-1.64	66.78	8.47	34.44	33.13	204	354	Peak	VERTICAL
3	5737.00	106.02			96.25	8.47	34.44	33.14	204	354	Average	VERTICAL
4	5739.80	117.40			107.66	8.43	34.45	33.14	204	354	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5695.80	63.30	68.20	-4.90	53.45	8.56	34.42	33.13	228	320	Peak	VERTICAL
2	5721.40	63.13	78.20	-15.07	53.32	8.51	34.43	33.13	228	320	Peak	VERTICAL
3	5788.60	119.76			110.09	8.35	34.47	33.15	228	320	Peak	VERTICAL
4	5788.60	107.05			97.38	8.35	34.47	33.15	228	320	Average	VERTICAL
5	5853.20	62.31	78.20	-15.89	52.41	8.56	34.51	33.17	228	320	Peak	VERTICAL
6	5873.80	63.71	68.20	-4.49	53.64	8.72	34.53	33.18	228	320	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5828.80	119.60			109.80	8.47	34.50	33.17	223	309	Peak	VERTICAL
2	5829.80	107.11			97.31	8.47	34.50	33.17	223	309	Average	VERTICAL
3	5850.00	76.02	78.20	-2.18	66.12	8.56	34.51	33.17	223	309	Peak	VERTICAL
4	5867.40	64.67	68.20	-3.53	54.69	8.64	34.52	33.18	223	309	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Channel 38

	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	5146.80	66.47	74.00	-7.53	57.63	8.15	33.74	33.05	203	319	Peak	VERTICAL
2	5150.00	52.69	54.00	-1.31	43.85	8.15	33.74	33.05	203	319	Average	VERTICAL
3	5184.00	99.51			90.51	8.26	33.79	33.05	203	319	Average	VERTICAL
4	5198.80	111.47			102.38	8.32	33.82	33.05	203	319	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5149.60	64.06	74.00	-9.94	55.22	8.15	33.74	33.05	204	332	Peak	VERTICAL
2	5150.00	50.49	54.00	-3.51	41.65	8.15	33.74	33.05	204	332	Average	VERTICAL
3	5227.60	120.57			111.46	8.30	33.86	33.05	204	332	Peak	VERTICAL
4	5238.40	108.50			99.37	8.29	33.89	33.05	204	332	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

Channel 151

	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	5709.80	67.11	68.20	-1.09	57.30	8.51	34.43	33.13	176	43	Peak	VERTICAL
2	5723.80	71.13	78.20	-7.07	61.35	8.47	34.44	33.13	176	43	Peak	VERTICAL
3	5763.40	111.17			101.46	8.39	34.46	33.14	176	43	Peak	VERTICAL
4	5765.00	99.72			90.02	8.39	34.46	33.15	176	43	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5713.80	62.45	68.20	-5.75	52.64	8.51	34.43	33.13	176	311	Peak	VERTICAL
2	5725.00	62.26	78.20	-15.94	52.48	8.47	34.44	33.13	176	311	Peak	VERTICAL
3	5785.00	117.01			107.34	8.35	34.47	33.15	176	311	Peak	VERTICAL
4	5789.80	105.56			95.92	8.31	34.48	33.15	176	311	Average	VERTICAL
5	5851.40	68.57	78.20	-9.63	58.67	8.56	34.51	33.17	176	311	Peak	VERTICAL
6	5869.80	66.56	68.20	-1.64	56.58	8.64	34.52	33.18	176	311	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi		

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	5138.00	64.44	74.00	-9.56	55.68	8.09	33.72	33.05	178	309	Peak	VERTICAL
2	5150.00	52.77	54.00	-1.23	43.93	8.15	33.74	33.05	178	309	Average	VERTICAL
3	5241.00	98.59			89.46	8.29	33.89	33.05	178	309	Average	VERTICAL
4	5246.00	110.97			101.85	8.29	33.89	33.06	178	309	Peak	VERTICAL
5	5368.00	62.44	74.00	-11.56	53.23	8.19	34.08	33.06	178	309	Peak	VERTICAL
6	5375.00	50.65	54.00	-3.35	41.42	8.18	34.11	33.06	178	309	Average	VERTICAL

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

Channel 155

	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	5713.00	67.11	68.20	-1.09	57.30	8.51	34.43	33.13	172	29	Peak	VERTICAL
2	5725.00	66.43	78.20	-11.77	56.65	8.47	34.44	33.13	172	29	Peak	VERTICAL
3	5790.00	96.99			87.35	8.31	34.48	33.15	172	29	Average	VERTICAL
4	5793.00	108.62			98.98	8.31	34.48	33.15	172	29	Peak	VERTICAL
5	5852.00	65.34	78.20	-12.86	55.44	8.56	34.51	33.17	172	29	Peak	VERTICAL
6	5864.00	64.27	68.20	-3.93	54.29	8.64	34.52	33.18	172	29	Peak	VERTICAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Channel 36

	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	5149.40	64.57	74.00	-9.43	55.73	8.15	33.74	33.05	217	360	Peak	VERTICAL
2	5149.80	52.21	54.00	-1.79	43.37	8.15	33.74	33.05	217	360	Average	VERTICAL
3	5172.80	104.98			95.98	8.26	33.79	33.05	217	360	Average	VERTICAL
4	5175.00	115.38			106.38	8.26	33.79	33.05	217	360	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5101.20	61.62	74.00	-12.38	53.03	7.97	33.67	33.05	187	0	Peak	HORIZONTAL
2	5150.00	49.65	54.00	-4.35	40.81	8.15	33.74	33.05	187	0	Average	HORIZONTAL
3	5206.00	119.13			110.03	8.31	33.84	33.05	187	0	Peak	HORIZONTAL
4	5206.40	107.85			98.75	8.31	33.84	33.05	187	0	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5108.00	49.33	54.00	-4.67	40.74	7.97	33.67	33.05	206	350	Average	VERTICAL
2	5139.20	61.64	74.00	-12.36	52.88	8.09	33.72	33.05	206	350	Peak	VERTICAL
3	5243.60	120.98			111.86	8.29	33.89	33.06	206	350	Peak	VERTICAL
4	5244.20	110.27			101.15	8.29	33.89	33.06	206	350	Average	VERTICAL
5	5378.00	62.28	74.00	-11.72	53.05	8.18	34.11	33.06	206	350	Peak	VERTICAL
6	5378.60	50.59	54.00	-3.41	41.36	8.18	34.11	33.06	206	350	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Channel 149

	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	5713.60	64.08	68.20	-4.12	54.27	8.51	34.43	33.13	205	353	Peak	HORIZONTAL
2	5725.00	76.98	78.20	-1.22	67.20	8.47	34.44	33.13	205	353	Peak	HORIZONTAL
3	5740.00	117.12			107.38	8.43	34.45	33.14	205	353	Peak	HORIZONTAL
4	5748.00	104.78			95.04	8.43	34.45	33.14	205	353	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5713.80	62.48	68.20	-5.72	52.67	8.51	34.43	33.13	197	355	Peak	HORIZONTAL
2	5724.60	61.88	78.20	-16.32	52.10	8.47	34.44	33.13	197	355	Peak	HORIZONTAL
3	5788.60	108.55			98.88	8.35	34.47	33.15	197	355	Average	HORIZONTAL
4	5789.00	120.71			111.07	8.31	34.48	33.15	197	355	Peak	HORIZONTAL
5	5853.20	62.46	78.20	-15.74	52.56	8.56	34.51	33.17	197	355	Peak	HORIZONTAL
6	5863.40	62.98	68.20	-5.22	53.00	8.64	34.52	33.18	197	355	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5822.60	121.24			111.44	8.47	34.50	33.17	191	356	Peak	HORIZONTAL
2	5823.00	110.04			100.24	8.47	34.50	33.17	191	356	Average	HORIZONTAL
3	5850.00	76.56	78.20	-1.64	66.66	8.56	34.51	33.17	191	356	Peak	HORIZONTAL
4	5860.00	64.58	68.20	-3.62	54.60	8.64	34.52	33.18	191	356	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Channel 38

	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	5148.00	64.87	74.00	-9.13	56.03	8.15	33.74	33.05	178	0	Peak	HORIZONTAL
2	5150.00	52.01	54.00	-1.99	43.17	8.15	33.74	33.05	178	0	Average	HORIZONTAL
3	5195.60	98.18			89.09	8.32	33.82	33.05	178	0	Average	HORIZONTAL
4	5200.00	111.11			102.02	8.32	33.82	33.05	178	0	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5149.20	62.16	74.00	-11.84	53.32	8.15	33.74	33.05	219	349	Peak	VERTICAL
2	5149.60	50.23	54.00	-3.77	41.39	8.15	33.74	33.05	219	349	Average	VERTICAL
3	5213.20	118.71			109.61	8.31	33.84	33.05	219	349	Peak	VERTICAL
4	5226.40	105.58			96.47	8.30	33.86	33.05	219	349	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

Channel 151

	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	5715.00	67.19	68.20	-1.01	57.38	8.51	34.43	33.13	188	354	Peak	HORIZONTAL
2	5723.80	71.85	78.20	-6.35	62.07	8.47	34.44	33.13	188	354	Peak	HORIZONTAL
3	5761.80	98.82			89.11	8.39	34.46	33.14	188	354	Average	HORIZONTAL
4	5763.80	111.69			101.98	8.39	34.46	33.14	188	354	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5713.00	62.49	68.20	-5.71	52.68	8.51	34.43	33.13	206	343	Peak	VERTICAL
2	5721.80	65.38	78.20	-12.82	55.57	8.51	34.43	33.13	206	343	Peak	VERTICAL
3	5782.60	116.38			106.71	8.35	34.47	33.15	206	343	Peak	VERTICAL
4	5791.80	102.16			92.52	8.31	34.48	33.15	206	343	Average	VERTICAL
5	5851.00	66.24	78.20	-11.96	56.34	8.56	34.51	33.17	206	343	Peak	VERTICAL
6	5874.60	64.62	68.20	-3.58	54.55	8.72	34.53	33.18	206	343	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi		

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	5143.00	63.23	74.00	-10.77	54.39	8.15	33.74	33.05	206	355	Peak	VERTICAL
2	5144.00	52.03	54.00	-1.97	43.19	8.15	33.74	33.05	206	355	Average	VERTICAL
3	5241.00	95.10			85.97	8.29	33.89	33.05	206	355	Average	VERTICAL
4	5244.00	106.58			97.46	8.29	33.89	33.06	206	355	Peak	VERTICAL
5	5350.00	49.33	54.00	-4.67	40.13	8.20	34.06	33.06	206	355	Average	VERTICAL
6	5425.00	62.56	74.00	-11.44	53.17	8.27	34.18	33.06	206	355	Peak	VERTICAL

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

Channel 155

	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	5708.00	67.19	68.20	-1.01	57.38	8.51	34.43	33.13	198	359	Peak	HORIZONTAL
2	5721.00	69.73	78.20	-8.47	59.92	8.51	34.43	33.13	198	359	Peak	HORIZONTAL
3	5756.00	108.31			98.60	8.39	34.46	33.14	198	359	Peak	HORIZONTAL
4	5758.00	95.17			85.46	8.39	34.46	33.14	198	359	Average	HORIZONTAL
5	5851.00	66.93	78.20	-11.27	57.03	8.56	34.51	33.17	198	359	Peak	HORIZONTAL
6	5862.00	65.78	68.20	-2.42	55.80	8.64	34.52	33.18	198	359	Peak	HORIZONTAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5144.00	61.08	74.00	-12.92	56.13	6.11	33.31	34.47	347	204	Peak	HORIZONTAL
2	5145.20	48.87	54.00	-5.13	43.92	6.11	33.31	34.47	347	204	Average	HORIZONTAL
3	5183.80	121.78			116.73	6.17	33.35	34.47	347	204	Peak	HORIZONTAL
4	5184.40	110.20			105.15	6.17	33.35	34.47	347	204	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5145.60	59.80	74.00	-14.20	54.85	6.11	33.31	34.47	356	187	Peak	HORIZONTAL
2	5146.80	47.79	54.00	-6.21	42.84	6.11	33.31	34.47	356	187	Average	HORIZONTAL
3	5192.00	109.63			104.52	6.20	33.38	34.47	356	187	Average	HORIZONTAL
4	5194.80	121.01			115.90	6.20	33.38	34.47	356	187	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5120.00	58.76	74.00	-15.24	53.92	6.04	33.27	34.47	332	173	Peak	VERTICAL
2	5137.40	47.02	54.00	-6.98	42.13	6.07	33.29	34.47	332	173	Average	VERTICAL
3	5241.20	120.06			114.77	6.32	33.44	34.47	332	173	Peak	VERTICAL
4	5247.20	109.17			103.83	6.35	33.46	34.47	332	173	Average	VERTICAL
5	5359.40	59.92	74.00	-14.08	54.16	6.62	33.61	34.47	332	173	Peak	VERTICAL
6	5380.40	47.55	54.00	-6.45	41.73	6.66	33.63	34.47	332	173	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5708.20	61.05	68.20	-7.15	54.61	6.50	34.45	34.51	335	160	Peak	HORIZONTAL
2	5725.00	76.91	78.20	-1.29	70.49	6.43	34.50	34.51	335	160	Peak	HORIZONTAL
3	5749.00	107.62			101.23	6.36	34.55	34.52	335	160	Average	HORIZONTAL
4	5750.20	118.97			112.58	6.36	34.55	34.52	335	160	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5694.20	60.83	68.20	-7.37	54.37	6.57	34.40	34.51	15	151	Peak	VERTICAL
2	5724.20	59.70	78.20	-18.50	53.28	6.43	34.50	34.51	15	151	Peak	VERTICAL
3	5782.60	119.44			113.10	6.22	34.65	34.53	15	151	Peak	VERTICAL
4	5783.40	107.33			100.99	6.22	34.65	34.53	15	151	Average	VERTICAL
5	5850.00	59.69	78.20	-18.51	52.99	6.39	34.85	34.54	15	151	Peak	VERTICAL
6	5864.20	61.23	68.20	-6.97	54.40	6.47	34.90	34.54	15	151	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5826.60	120.15			113.58	6.31	34.80	34.54	335	170	Peak	HORIZONTAL
2	5828.20	108.77			102.20	6.31	34.80	34.54	335	170	Average	HORIZONTAL
3	5850.00	76.84	78.20	-1.36	70.14	6.39	34.85	34.54	335	170	Peak	HORIZONTAL
4	5860.60	62.82	68.20	-5.38	55.99	6.47	34.90	34.54	335	170	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.40	63.77	74.00	-10.23	58.82	6.11	33.31	34.47	11	161	Peak	VERTICAL
2	5150.00	52.04	54.00	-1.96	47.09	6.11	33.31	34.47	11	161	Average	VERTICAL
3	5194.40	98.55			93.44	6.20	33.38	34.47	11	161	Average	VERTICAL
4	5197.60	111.34			106.23	6.20	33.38	34.47	11	161	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.60	49.98	54.00	-4.02	45.03	6.11	33.31	34.47	4	174	Average	VERTICAL
2	5150.00	62.32	74.00	-11.68	57.37	6.11	33.31	34.47	4	174	Peak	VERTICAL
3	5221.60	120.32			115.09	6.28	33.42	34.47	4	174	Peak	VERTICAL
4	5231.80	107.54			102.25	6.32	33.44	34.47	4	174	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.20	67.09	68.20	-1.11	60.65	6.50	34.45	34.51	336	151	Peak	HORIZONTAL
2	5724.60	73.23	78.20	-4.97	66.81	6.43	34.50	34.51	336	151	Peak	HORIZONTAL
3	5749.40	99.48			93.09	6.36	34.55	34.52	336	151	Average	HORIZONTAL
4	5751.40	112.13			105.74	6.36	34.55	34.52	336	151	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5706.80	61.88	68.20	-6.32	55.44	6.50	34.45	34.51	342	188	Peak	HORIZONTAL
2	5719.40	66.74	78.20	-11.46	60.30	6.50	34.45	34.51	342	188	Peak	HORIZONTAL
3	5798.00	106.96			100.64	6.15	34.70	34.53	342	188	Average	HORIZONTAL
4	5798.60	118.54			112.22	6.15	34.70	34.53	342	188	Peak	HORIZONTAL
5	5850.00	73.04	78.20	-5.16	66.34	6.39	34.85	34.54	342	188	Peak	HORIZONTAL
6	5860.40	66.27	68.20	-1.93	59.44	6.47	34.90	34.54	342	188	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 24, 2015		
Test Mode	Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5131.00	64.85	74.00	-9.15	59.96	6.07	33.29	34.47	4	175	Peak	VERTICAL
2	5150.00	52.73	54.00	-1.27	47.78	6.11	33.31	34.47	4	175	Average	VERTICAL
3	5209.00	105.93			100.76	6.24	33.40	34.47	4	175	Peak	VERTICAL
4	5212.00	94.65			89.48	6.24	33.40	34.47	4	175	Average	VERTICAL
5	5350.00	59.96	74.00	-14.04	54.26	6.58	33.59	34.47	4	175	Peak	VERTICAL
6	5350.00	46.69	54.00	-7.31	40.99	6.58	33.59	34.47	4	175	Average	VERTICAL

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

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5711.00	67.13	68.20	-1.07	60.69	6.50	34.45	34.51	353	154	Peak	VERTICAL
2	5719.00	69.20	78.20	-9.00	62.76	6.50	34.45	34.51	353	154	Peak	VERTICAL
3	5787.00	94.15			87.81	6.22	34.65	34.53	353	154	Average	VERTICAL
4	5789.00	106.29			99.97	6.15	34.70	34.53	353	154	Peak	VERTICAL
5	5852.00	67.17	78.20	-11.03	60.47	6.39	34.85	34.54	353	154	Peak	VERTICAL
6	5861.00	66.14	68.20	-2.06	59.31	6.47	34.90	34.54	353	154	Peak	VERTICAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Channel 36

	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	5147.80	64.03	74.00	-9.97	55.19	8.15	33.74	33.05	116	0	Peak	HORIZONTAL
2	5148.60	52.93	54.00	-1.07	44.09	8.15	33.74	33.05	116	0	Average	HORIZONTAL
3	5187.60	118.20			109.11	8.32	33.82	33.05	116	0	Peak	HORIZONTAL
4	5188.00	107.42			98.33	8.32	33.82	33.05	116	0	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5140.40	60.96	74.00	-13.04	52.20	8.09	33.72	33.05	115	360	Peak	HORIZONTAL
2	5146.80	49.64	54.00	-4.36	40.80	8.15	33.74	33.05	115	360	Average	HORIZONTAL
3	5197.60	120.68			111.59	8.32	33.82	33.05	115	360	Peak	HORIZONTAL
4	5201.60	109.58			100.48	8.31	33.84	33.05	115	360	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5097.80	49.11	54.00	-4.89	40.52	7.97	33.67	33.05	119	0	Average	HORIZONTAL
2	5146.40	61.38	74.00	-12.62	52.54	8.15	33.74	33.05	119	0	Peak	HORIZONTAL
3	5232.80	107.31			98.18	8.29	33.89	33.05	119	0	Average	HORIZONTAL
4	5247.20	115.75			106.63	8.27	33.91	33.06	119	0	Peak	HORIZONTAL
5	5354.00	50.55	54.00	-3.45	41.35	8.20	34.06	33.06	119	0	Average	HORIZONTAL
6	5376.20	62.73	74.00	-11.27	53.50	8.18	34.11	33.06	119	0	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Channel 149

	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	5710.60	63.29	68.20	-4.91	53.48	8.51	34.43	33.13	207	348	Peak	HORIZONTAL
2	5723.80	76.74	78.20	-1.46	66.96	8.47	34.44	33.13	207	348	Peak	HORIZONTAL
3	5743.40	102.78			93.04	8.43	34.45	33.14	207	348	Average	HORIZONTAL
4	5743.80	112.44			102.70	8.43	34.45	33.14	207	348	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5708.60	62.78	68.20	-5.42	52.97	8.51	34.43	33.13	227	349	Peak	HORIZONTAL
2	5722.60	62.07	78.20	-16.13	52.29	8.47	34.44	33.13	227	349	Peak	HORIZONTAL
3	5782.60	109.12			99.45	8.35	34.47	33.15	227	349	Average	HORIZONTAL
4	5787.40	120.68			111.01	8.35	34.47	33.15	227	349	Peak	HORIZONTAL
5	5856.40	63.61	78.20	-14.59	53.62	8.64	34.52	33.17	227	349	Peak	HORIZONTAL
6	5881.40	63.76	68.20	-4.44	53.69	8.72	34.53	33.18	227	349	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5823.40	118.91			109.11	8.47	34.50	33.17	206	342	Peak	VERTICAL
2	5823.80	108.23			98.43	8.47	34.50	33.17	206	342	Average	VERTICAL
3	5850.00	76.98	78.20	-1.22	67.08	8.56	34.51	33.17	206	342	Peak	VERTICAL
4	5912.60	64.57	68.20	-3.63	54.33	8.88	34.55	33.19	206	342	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Channel 38

	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	5144.80	64.75	74.00	-9.25	55.91	8.15	33.74	33.05	253	358	Peak	VERTICAL
2	5150.00	52.66	54.00	-1.34	43.82	8.15	33.74	33.05	253	358	Average	VERTICAL
3	5185.60	104.19			95.19	8.26	33.79	33.05	253	358	Average	VERTICAL
4	5197.60	114.52			105.43	8.32	33.82	33.05	253	358	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5147.20	50.65	54.00	-3.35	41.81	8.15	33.74	33.05	129	345	Average	HORIZONTAL
2	5149.60	65.15	74.00	-8.85	56.31	8.15	33.74	33.05	129	345	Peak	HORIZONTAL
3	5240.00	118.10			108.97	8.29	33.89	33.05	129	345	Peak	HORIZONTAL
4	5240.80	105.98			96.85	8.29	33.89	33.05	129	345	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

Channel 151

	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	5714.20	67.04	68.20	-1.16	57.23	8.51	34.43	33.13	243	339	Peak	HORIZONTAL
2	5723.40	72.85	78.20	-5.35	63.07	8.47	34.44	33.13	243	339	Peak	HORIZONTAL
3	5762.20	99.45			89.74	8.39	34.46	33.14	243	339	Average	HORIZONTAL
4	5762.60	111.07			101.36	8.39	34.46	33.14	243	339	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5713.80	64.08	68.20	-4.12	54.27	8.51	34.43	33.13	250	360	Peak	HORIZONTAL
2	5723.80	67.42	78.20	-10.78	57.64	8.47	34.44	33.13	250	360	Peak	HORIZONTAL
3	5783.80	116.34			106.67	8.35	34.47	33.15	250	360	Peak	HORIZONTAL
4	5804.20	105.99			96.36	8.31	34.48	33.16	250	360	Average	HORIZONTAL
5	5851.40	70.10	78.20	-8.10	60.20	8.56	34.51	33.17	250	360	Peak	HORIZONTAL
6	5870.60	67.02	68.20	-1.18	57.04	8.64	34.52	33.18	250	360	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 23, 2015		
Test Mode	Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi		

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	5132.00	52.60	54.00	-1.40	43.84	8.09	33.72	33.05	217	342	Average	VERTICAL
2	5144.00	66.64	74.00	-7.36	57.80	8.15	33.74	33.05	217	342	Peak	VERTICAL
3	5246.00	100.90			91.78	8.29	33.89	33.06	217	342	Average	VERTICAL
4	5247.00	112.75			103.63	8.27	33.91	33.06	217	342	Peak	VERTICAL
5	5371.00	63.58	74.00	-10.42	54.35	8.18	34.11	33.06	217	342	Peak	VERTICAL
6	5390.00	50.50	54.00	-3.50	41.26	8.17	34.13	33.06	217	342	Average	VERTICAL

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

Channel 155

	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	5702.00	66.64	68.20	-1.56	56.79	8.56	34.42	33.13	236	360	Peak	VERTICAL
2	5723.00	66.33	78.20	-11.87	56.55	8.47	34.44	33.13	236	360	Peak	VERTICAL
3	5744.00	105.93			96.19	8.43	34.45	33.14	236	360	Peak	VERTICAL
4	5812.00	93.43			83.71	8.39	34.49	33.16	236	360	Average	VERTICAL
5	5851.00	63.75	78.20	-14.45	53.85	8.56	34.51	33.17	236	360	Peak	VERTICAL
6	5863.00	63.52	68.20	-4.68	53.54	8.64	34.52	33.18	236	360	Peak	VERTICAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.40	63.47	74.00	-10.53	58.52	6.11	33.31	34.47	356	150	Peak	HORIZONTAL
2	5149.80	49.64	54.00	-4.36	44.69	6.11	33.31	34.47	356	150	Average	HORIZONTAL
3	5186.20	118.43			113.38	6.17	33.35	34.47	356	150	Peak	HORIZONTAL
4	5187.00	106.67			101.56	6.20	33.38	34.47	356	150	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5120.00	59.35	74.00	-14.65	54.51	6.04	33.27	34.47	354	154	Peak	HORIZONTAL
2	5147.60	46.76	54.00	-7.24	41.81	6.11	33.31	34.47	354	154	Average	HORIZONTAL
3	5194.00	116.07			110.96	6.20	33.38	34.47	354	154	Peak	HORIZONTAL
4	5202.40	105.05			99.88	6.24	33.40	34.47	354	154	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5120.00	46.21	54.00	-7.79	41.37	6.04	33.27	34.47	349	162	Average	VERTICAL
2	5142.80	60.17	74.00	-13.83	55.22	6.11	33.31	34.47	349	162	Peak	VERTICAL
3	5241.80	117.80			112.51	6.32	33.44	34.47	349	162	Peak	VERTICAL
4	5245.40	106.40			101.11	6.32	33.44	34.47	349	162	Average	VERTICAL
5	5350.00	46.72	54.00	-7.28	41.02	6.58	33.59	34.47	349	162	Average	VERTICAL
6	5366.60	59.73	74.00	-14.27	53.97	6.62	33.61	34.47	349	162	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.00	60.25	68.20	-7.95	53.81	6.50	34.45	34.51	352	177	Peak	VERTICAL
2	5725.00	77.13	78.20	-1.07	70.71	6.43	34.50	34.51	352	177	Peak	VERTICAL
3	5748.00	103.62			97.23	6.36	34.55	34.52	352	177	Average	VERTICAL
4	5750.00	116.26			109.87	6.36	34.55	34.52	352	177	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5711.80	61.14	68.20	-7.06	54.70	6.50	34.45	34.51	349	148	Peak	HORIZONTAL
2	5725.00	60.40	78.20	-17.80	53.98	6.43	34.50	34.51	349	148	Peak	HORIZONTAL
3	5788.60	116.23			109.89	6.22	34.65	34.53	349	148	Peak	HORIZONTAL
4	5788.60	105.60			99.26	6.22	34.65	34.53	349	148	Average	HORIZONTAL
5	5857.80	60.98	78.20	-17.22	54.15	6.47	34.90	34.54	349	148	Peak	HORIZONTAL
6	5881.00	60.51	68.20	-7.69	53.56	6.55	34.95	34.55	349	148	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5827.80	117.73			111.16	6.31	34.80	34.54	351	162	Peak	VERTICAL
2	5828.80	106.09			99.52	6.31	34.80	34.54	351	162	Average	VERTICAL
3	5850.20	76.31	78.20	-1.89	69.61	6.39	34.85	34.54	351	162	Peak	VERTICAL
4	5861.00	61.83	68.20	-6.37	55.00	6.47	34.90	34.54	351	162	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	64.34	74.00	-9.66	59.39	6.11	33.31	34.47	344	162	Peak	VERTICAL
2	5150.00	51.59	54.00	-2.41	46.64	6.11	33.31	34.47	344	162	Average	VERTICAL
3	5182.40	112.32			107.27	6.17	33.35	34.47	344	162	Peak	VERTICAL
4	5198.00	100.86			95.75	6.20	33.38	34.47	344	162	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5142.80	60.82	74.00	-13.18	55.87	6.11	33.31	34.47	358	175	Peak	HORIZONTAL
2	5148.00	46.79	54.00	-7.21	41.84	6.11	33.31	34.47	358	175	Average	HORIZONTAL
3	5228.80	101.98			96.75	6.28	33.42	34.47	358	175	Average	HORIZONTAL
4	5242.40	113.13			107.84	6.32	33.44	34.47	358	175	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5712.20	67.18	68.20	-1.02	60.74	6.50	34.45	34.51	355	174	Peak	VERTICAL
2	5725.00	73.47	78.20	-4.73	67.05	6.43	34.50	34.51	355	174	Peak	VERTICAL
3	5750.20	98.86			92.47	6.36	34.55	34.52	355	174	Average	VERTICAL
4	5751.40	110.16			103.77	6.36	34.55	34.52	355	174	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	59.28	68.20	-8.92	52.84	6.50	34.45	34.51	351	170	Peak	HORIZONTAL
2	5721.80	62.14	78.20	-16.06	55.70	6.50	34.45	34.51	351	170	Peak	HORIZONTAL
3	5786.00	113.47			107.13	6.22	34.65	34.53	351	170	Peak	HORIZONTAL
4	5796.80	101.63			95.31	6.15	34.70	34.53	351	170	Average	HORIZONTAL
5	5850.00	70.95	78.20	-7.25	64.25	6.39	34.85	34.54	351	170	Peak	HORIZONTAL
6	5862.80	66.47	68.20	-1.73	59.64	6.47	34.90	34.54	351	170	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5123.00	64.58	74.00	-9.42	59.74	6.04	33.27	34.47	349	165	Peak	VERTICAL
2	5147.00	52.99	54.00	-1.01	48.04	6.11	33.31	34.47	349	165	Average	VERTICAL
3	5216.00	95.64			90.47	6.24	33.40	34.47	349	165	Average	VERTICAL
4	5220.00	105.69			100.46	6.28	33.42	34.47	349	165	Peak	VERTICAL
5	5374.00	46.36	54.00	-7.64	40.54	6.66	33.63	34.47	349	165	Average	VERTICAL
6	5410.00	58.68	74.00	-15.32	52.76	6.72	33.67	34.47	349	165	Peak	VERTICAL

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

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5709.00	67.16	68.20	-1.04	60.72	6.50	34.45	34.51	357	180	Peak	VERTICAL
2	5725.00	69.72	78.20	-8.48	63.30	6.43	34.50	34.51	357	180	Peak	VERTICAL
3	5758.00	105.84			99.47	6.29	34.60	34.52	357	180	Peak	VERTICAL
4	5787.00	93.09			86.75	6.22	34.65	34.53	357	180	Average	VERTICAL
5	5850.00	66.71	78.20	-11.49	60.01	6.39	34.85	34.54	357	180	Peak	VERTICAL
6	5863.00	66.14	68.20	-2.06	59.31	6.47	34.90	34.54	357	180	Peak	VERTICAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Channel 36

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.60	51.10	54.00	-2.90	46.15	6.11	33.31	34.47	2	174	Average	HORIZONTAL
2	5149.80	63.04	74.00	-10.96	58.09	6.11	33.31	34.47	2	174	Peak	HORIZONTAL
3	5179.00	120.35			115.30	6.17	33.35	34.47	2	174	Peak	HORIZONTAL
4	5182.20	109.18			104.13	6.17	33.35	34.47	2	174	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5112.40	59.26	74.00	-14.74	54.42	6.04	33.27	34.47	354	189	Peak	HORIZONTAL
2	5149.20	46.74	54.00	-7.26	41.79	6.11	33.31	34.47	354	189	Average	HORIZONTAL
3	5196.00	109.60			104.49	6.20	33.38	34.47	354	189	Average	HORIZONTAL
4	5197.60	120.57			115.46	6.20	33.38	34.47	354	189	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5142.20	46.25	54.00	-7.75	41.30	6.11	33.31	34.47	3	177	Average	HORIZONTAL
2	5145.80	58.14	74.00	-15.86	53.19	6.11	33.31	34.47	3	177	Peak	HORIZONTAL
3	5237.60	120.83			115.54	6.32	33.44	34.47	3	177	Peak	HORIZONTAL
4	5237.60	110.42			105.13	6.32	33.44	34.47	3	177	Average	HORIZONTAL
5	5353.00	57.22	74.00	-16.78	51.52	6.58	33.59	34.47	3	177	Peak	HORIZONTAL
6	5358.20	46.45	54.00	-7.55	40.69	6.62	33.61	34.47	3	177	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5711.40	61.13	68.20	-7.07	54.69	6.50	34.45	34.51	358	200	Peak	HORIZONTAL
2	5724.60	77.16	78.20	-1.04	70.74	6.43	34.50	34.51	358	200	Peak	HORIZONTAL
3	5741.00	105.69			99.30	6.36	34.55	34.52	358	200	Average	HORIZONTAL
4	5742.60	117.95			111.56	6.36	34.55	34.52	358	200	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5697.40	60.78	68.20	-7.42	54.32	6.57	34.40	34.51	356	162	Peak	HORIZONTAL
2	5725.00	59.70	78.20	-18.50	53.28	6.43	34.50	34.51	356	162	Peak	HORIZONTAL
3	5780.20	120.82			114.48	6.22	34.65	34.53	356	162	Peak	HORIZONTAL
4	5792.60	109.27			102.95	6.15	34.70	34.53	356	162	Average	HORIZONTAL
5	5850.40	58.72	78.20	-19.48	52.02	6.39	34.85	34.54	356	162	Peak	HORIZONTAL
6	5868.20	60.17	68.20	-8.03	53.34	6.47	34.90	34.54	356	162	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5820.20	118.95			112.50	6.23	34.75	34.53	4	221	Peak	HORIZONTAL
2	5820.60	106.74			100.29	6.23	34.75	34.53	4	221	Average	HORIZONTAL
3	5850.00	76.98	78.20	-1.22	70.28	6.39	34.85	34.54	4	221	Peak	HORIZONTAL
4	5860.00	62.23	68.20	-5.97	55.40	6.47	34.90	34.54	4	221	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Channel 38

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.40	64.33	74.00	-9.67	59.38	6.11	33.31	34.47	2	165	Peak	HORIZONTAL
2	5150.00	51.48	54.00	-2.52	46.53	6.11	33.31	34.47	2	165	Average	HORIZONTAL
3	5195.60	100.15			95.04	6.20	33.38	34.47	2	165	Average	HORIZONTAL
4	5197.60	112.06			106.95	6.20	33.38	34.47	2	165	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5147.80	63.43	74.00	-10.57	58.48	6.11	33.31	34.47	359	183	Peak	HORIZONTAL
2	5150.00	49.81	54.00	-4.19	44.86	6.11	33.31	34.47	359	183	Average	HORIZONTAL
3	5239.60	108.11			102.82	6.32	33.44	34.47	359	183	Average	HORIZONTAL
4	5240.20	120.56			115.27	6.32	33.44	34.47	359	183	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5713.80	66.62	68.20	-1.58	60.18	6.50	34.45	34.51	360	152	Peak	HORIZONTAL
2	5721.00	70.91	78.20	-7.29	64.47	6.50	34.45	34.51	360	152	Peak	HORIZONTAL
3	5748.60	110.43			104.04	6.36	34.55	34.52	360	152	Peak	HORIZONTAL
4	5753.00	98.90			92.51	6.36	34.55	34.52	360	152	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	62.32	68.20	-5.88	55.88	6.50	34.45	34.51	6	178	Peak	VERTICAL
2	5725.00	66.69	78.20	-11.51	60.27	6.43	34.50	34.51	6	178	Peak	VERTICAL
3	5785.40	106.43			100.09	6.22	34.65	34.53	6	178	Average	VERTICAL
4	5791.40	118.52			112.20	6.15	34.70	34.53	6	178	Peak	VERTICAL
5	5850.80	72.17	78.20	-6.03	65.47	6.39	34.85	34.54	6	178	Peak	VERTICAL
6	5860.40	67.17	68.20	-1.03	60.34	6.47	34.90	34.54	6	178	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi		

Channel 42

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5147.00	65.30	74.00	-8.70	60.35	6.11	33.31	34.47	4	177	Peak	HORIZONTAL
2	5149.00	52.88	54.00	-1.12	47.93	6.11	33.31	34.47	4	177	Average	HORIZONTAL
3	5217.00	96.70			91.47	6.28	33.42	34.47	4	177	Average	HORIZONTAL
4	5218.00	108.63			103.40	6.28	33.42	34.47	4	177	Peak	HORIZONTAL
5	5350.00	59.81	74.00	-14.19	54.11	6.58	33.59	34.47	4	177	Peak	HORIZONTAL
6	5350.00	45.58	54.00	-8.42	39.88	6.58	33.59	34.47	4	177	Average	HORIZONTAL

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

Channel 155

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	65.81	68.20	-2.39	59.37	6.50	34.45	34.51	2	159	Peak	HORIZONTAL
2	5723.00	66.72	78.20	-11.48	60.30	6.43	34.50	34.51	2	159	Peak	HORIZONTAL
3	5799.00	95.03			88.71	6.15	34.70	34.53	2	159	Average	HORIZONTAL
4	5807.00	106.66			100.21	6.23	34.75	34.53	2	159	Peak	HORIZONTAL
5	5850.00	64.66	78.20	-13.54	57.96	6.39	34.85	34.54	2	159	Peak	HORIZONTAL
6	5861.00	64.29	68.20	-3.91	57.46	6.47	34.90	34.54	2	159	Peak	HORIZONTAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Channel 36

	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	5145.20	63.78	74.00	-10.22	54.94	8.15	33.74	33.05	199	126	Peak	VERTICAL
2	5149.80	51.10	54.00	-2.90	42.26	8.15	33.74	33.05	199	126	Average	VERTICAL
3	5183.60	118.00			109.00	8.26	33.79	33.05	199	126	Peak	VERTICAL
4	5184.00	106.47			97.47	8.26	33.79	33.05	199	126	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5111.60	61.88	74.00	-12.12	53.29	7.97	33.67	33.05	204	104	Peak	VERTICAL
2	5150.00	48.39	54.00	-5.61	39.55	8.15	33.74	33.05	204	104	Average	VERTICAL
3	5198.40	106.80			97.71	8.32	33.82	33.05	204	104	Average	VERTICAL
4	5198.80	118.24			109.15	8.32	33.82	33.05	204	104	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5111.60	61.05	74.00	-12.95	52.46	7.97	33.67	33.05	196	209	Peak	VERTICAL
2	5149.40	47.85	54.00	-6.15	39.01	8.15	33.74	33.05	196	209	Average	VERTICAL
3	5237.60	119.53			110.40	8.29	33.89	33.05	196	209	Peak	VERTICAL
4	5237.60	107.28			98.15	8.29	33.89	33.05	196	209	Average	VERTICAL
5	5350.00	49.34	54.00	-4.66	40.14	8.20	34.06	33.06	196	209	Average	VERTICAL
6	5369.60	62.50	74.00	-11.50	53.27	8.18	34.11	33.06	196	209	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Channel 149

	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	5713.80	64.68	68.20	-3.52	54.87	8.51	34.43	33.13	202	224	Peak	VERTICAL
2	5723.80	76.72	78.20	-1.48	66.94	8.47	34.44	33.13	202	224	Peak	VERTICAL
3	5736.80	106.22			96.45	8.47	34.44	33.14	202	224	Average	VERTICAL
4	5740.00	118.70			108.96	8.43	34.45	33.14	202	224	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5709.40	62.79	68.20	-5.41	52.98	8.51	34.43	33.13	198	296	Peak	VERTICAL
2	5725.00	60.83	78.20	-17.37	51.05	8.47	34.44	33.13	198	296	Peak	VERTICAL
3	5790.20	119.33			109.69	8.31	34.48	33.15	198	296	Peak	VERTICAL
4	5792.60	107.59			97.95	8.31	34.48	33.15	198	296	Average	VERTICAL
5	5850.00	61.38	78.20	-16.82	51.48	8.56	34.51	33.17	198	296	Peak	VERTICAL
6	5869.80	63.59	68.20	-4.61	53.61	8.64	34.52	33.18	198	296	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5825.80	104.93			95.13	8.47	34.50	33.17	189	256	Average	VERTICAL
2	5826.20	117.10			107.30	8.47	34.50	33.17	189	256	Peak	VERTICAL
3	5850.40	74.25	78.20	-3.95	64.35	8.56	34.51	33.17	189	256	Peak	VERTICAL
4	5860.00	66.49	68.20	-1.71	56.51	8.64	34.52	33.18	189	256	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Channel 38

	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	5148.80	65.09	74.00	-8.91	56.25	8.15	33.74	33.05	208	23	Peak	VERTICAL
2	5150.00	52.68	54.00	-1.32	43.84	8.15	33.74	33.05	208	23	Average	VERTICAL
3	5194.40	101.98			92.89	8.32	33.82	33.05	208	23	Average	VERTICAL
4	5197.60	113.94			104.85	8.32	33.82	33.05	208	23	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5133.20	61.48	74.00	-12.52	52.72	8.09	33.72	33.05	199	112	Peak	VERTICAL
2	5149.60	50.00	54.00	-4.00	41.16	8.15	33.74	33.05	199	112	Average	VERTICAL
3	5243.60	108.43			99.31	8.29	33.89	33.06	199	112	Average	VERTICAL
4	5244.00	118.80			109.68	8.29	33.89	33.06	199	112	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Channel 151

	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	5713.40	67.03	68.20	-1.17	57.22	8.51	34.43	33.13	222	133	Peak	VERTICAL
2	5723.40	72.74	78.20	-5.46	62.96	8.47	34.44	33.13	222	133	Peak	VERTICAL
3	5762.20	99.53			89.82	8.39	34.46	33.14	222	133	Average	VERTICAL
4	5768.60	110.85			101.15	8.39	34.46	33.15	222	133	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5715.00	64.64	68.20	-3.56	54.83	8.51	34.43	33.13	257	98	Peak	VERTICAL
2	5722.60	68.82	78.20	-9.38	59.04	8.47	34.44	33.13	257	98	Peak	VERTICAL
3	5802.20	107.32			97.69	8.31	34.48	33.16	257	98	Average	VERTICAL
4	5803.80	119.49			109.86	8.31	34.48	33.16	257	98	Peak	VERTICAL
5	5851.00	69.36	78.20	-8.84	59.46	8.56	34.51	33.17	257	98	Peak	VERTICAL
6	5867.40	67.05	68.20	-1.15	57.07	8.64	34.52	33.18	257	98	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 25, 2015		
Test Mode	Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

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	5149.00	64.46	74.00	-9.54	55.62	8.15	33.74	33.05	242	278	Peak	VERTICAL
2	5150.00	52.32	54.00	-1.68	43.48	8.15	33.74	33.05	242	278	Average	VERTICAL
3	5241.00	108.32			99.19	8.29	33.89	33.05	242	278	Peak	VERTICAL
4	5242.00	97.16			88.04	8.29	33.89	33.06	242	278	Average	VERTICAL
5	5364.00	62.81	74.00	-11.19	53.60	8.19	34.08	33.06	242	278	Peak	VERTICAL
6	5373.00	50.59	54.00	-3.41	41.36	8.18	34.11	33.06	242	278	Average	VERTICAL

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

Channel 155

	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	5710.00	66.57	68.20	-1.63	56.76	8.51	34.43	33.13	222	260	Peak	VERTICAL
2	5719.00	68.75	78.20	-9.45	58.94	8.51	34.43	33.13	222	260	Peak	VERTICAL
3	5799.00	97.70			88.06	8.31	34.48	33.15	222	260	Average	VERTICAL
4	5803.00	108.45			98.82	8.31	34.48	33.16	222	260	Peak	VERTICAL
5	5850.00	69.12	78.20	-9.08	59.22	8.56	34.51	33.17	222	260	Peak	VERTICAL
6	5865.00	67.10	68.20	-1.10	57.12	8.64	34.52	33.18	222	260	Peak	VERTICAL

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

Note:

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

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

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Channel 36

	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	5147.60	64.53	74.00	-9.47	55.69	8.15	33.74	33.05	182	297	Peak	HORIZONTAL
2	5148.20	52.33	54.00	-1.67	43.49	8.15	33.74	33.05	182	297	Average	HORIZONTAL
3	5177.00	107.05			98.05	8.26	33.79	33.05	182	297	Average	HORIZONTAL
4	5183.80	119.79			110.79	8.26	33.79	33.05	182	297	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

Channel 40

	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	5146.80	48.54	54.00	-5.46	39.70	8.15	33.74	33.05	189	69	Average	HORIZONTAL
2	5148.00	60.57	74.00	-13.43	51.73	8.15	33.74	33.05	189	69	Peak	HORIZONTAL
3	5193.20	105.88			96.79	8.32	33.82	33.05	189	69	Average	HORIZONTAL
4	5196.40	117.21			108.12	8.32	33.82	33.05	189	69	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

	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	5124.20	60.04	74.00	-13.96	51.37	8.03	33.69	33.05	184	303	Peak	HORIZONTAL
2	5135.60	47.80	54.00	-6.20	39.04	8.09	33.72	33.05	184	303	Average	HORIZONTAL
3	5242.40	120.80			111.68	8.29	33.89	33.06	184	303	Peak	HORIZONTAL
4	5242.40	108.75			99.63	8.29	33.89	33.06	184	303	Average	HORIZONTAL
5	5354.80	60.92	74.00	-13.08	51.71	8.19	34.08	33.06	184	303	Peak	HORIZONTAL
6	5367.80	48.17	54.00	-5.83	38.96	8.19	34.08	33.06	184	303	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Channel 149

	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	5713.80	67.18	68.20	-1.02	57.37	8.51	34.43	33.13	193	320	Peak	HORIZONTAL
2	5724.20	72.40	78.20	-5.80	62.62	8.47	34.44	33.13	193	320	Peak	HORIZONTAL
3	5750.20	118.08			108.34	8.43	34.45	33.14	193	320	Peak	HORIZONTAL
4	5750.60	106.05			96.31	8.43	34.45	33.14	193	320	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	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	5709.80	61.60	68.20	-6.60	51.79	8.51	34.43	33.13	258	298	Peak	VERTICAL
2	5718.20	61.31	78.20	-16.89	51.50	8.51	34.43	33.13	258	298	Peak	VERTICAL
3	5781.40	104.87			95.20	8.35	34.47	33.15	258	298	Average	VERTICAL
4	5782.20	116.84			107.17	8.35	34.47	33.15	258	298	Peak	VERTICAL
5	5850.00	60.61	78.20	-17.59	50.71	8.56	34.51	33.17	258	298	Peak	VERTICAL
6	5868.60	62.48	68.20	-5.72	52.50	8.64	34.52	33.18	258	298	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

	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	5827.40	117.96			108.16	8.47	34.50	33.17	204	53	Peak	HORIZONTAL
2	5830.60	106.59			96.79	8.47	34.50	33.17	204	53	Average	HORIZONTAL
3	5850.00	75.67	78.20	-2.53	65.77	8.56	34.51	33.17	204	53	Peak	HORIZONTAL
4	5861.00	62.85	68.20	-5.35	52.87	8.64	34.52	33.18	204	53	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Channel 38

	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	5148.40	64.86	74.00	-9.14	56.02	8.15	33.74	33.05	190	293	Peak	HORIZONTAL
2	5148.60	52.86	54.00	-1.14	44.02	8.15	33.74	33.05	190	293	Average	HORIZONTAL
3	5192.40	102.60			93.51	8.32	33.82	33.05	190	293	Average	HORIZONTAL
4	5196.40	113.67			104.58	8.32	33.82	33.05	190	293	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

	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	5136.00	65.11	74.00	-8.89	56.35	8.09	33.72	33.05	191	54	Peak	HORIZONTAL
2	5146.00	51.90	54.00	-2.10	43.06	8.15	33.74	33.05	191	54	Average	HORIZONTAL
3	5222.80	117.84			108.73	8.30	33.86	33.05	191	54	Peak	HORIZONTAL
4	5227.20	107.01			97.90	8.30	33.86	33.05	191	54	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Channel 151

	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	5714.20	66.81	68.20	-1.39	57.00	8.51	34.43	33.13	200	76	Peak	HORIZONTAL
2	5723.80	70.64	78.20	-7.56	60.86	8.47	34.44	33.13	200	76	Peak	HORIZONTAL
3	5762.60	110.27			100.56	8.39	34.46	33.14	200	76	Peak	HORIZONTAL
4	5763.00	98.84			89.13	8.39	34.46	33.14	200	76	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

	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	5781.00	115.96			106.29	8.35	34.47	33.15	226	78	Peak	HORIZONTAL
2	5783.80	105.45			95.78	8.35	34.47	33.15	226	78	Average	HORIZONTAL
3	5850.00	68.26	78.20	-9.94	58.36	8.56	34.51	33.17	226	78	Peak	HORIZONTAL
4	5860.00	67.07	68.20	-1.13	57.09	8.64	34.52	33.18	226	78	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5795 MHz.

Temperature	25℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 1 + Chain 2 + Chain 3 + Chain 4
Test Date	Nov. 20, 2015		
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

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	5144.93	52.98	54.00	-1.02	44.14	8.15	33.74	33.05	219	50	Average	HORIZONTAL
2	5146.38	63.59	74.00	-10.41	54.75	8.15	33.74	33.05	219	50	Peak	HORIZONTAL
3	5226.64	105.62			96.51	8.30	33.86	33.05	219	50	Peak	HORIZONTAL
4	5226.64	95.64			86.53	8.30	33.86	33.05	219	50	Average	HORIZONTAL
5	5350.00	48.87	54.00	-5.13	39.67	8.20	34.06	33.06	219	50	Average	HORIZONTAL
6	5381.11	63.06	74.00	-10.94	53.83	8.18	34.11	33.06	219	50	Peak	HORIZONTAL

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

Channel 155

	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	5711.38	66.79	68.20	-1.41	56.98	8.51	34.43	33.13	207	318	Peak	HORIZONTAL
2	5725.00	67.06	78.20	-11.14	57.28	8.47	34.44	33.13	207	318	Peak	HORIZONTAL
3	5764.15	93.34			83.64	8.39	34.46	33.15	207	318	Average	HORIZONTAL
4	5767.04	103.32			93.62	8.39	34.46	33.15	207	318	Peak	HORIZONTAL
5	5851.45	63.56	78.20	-14.64	53.66	8.56	34.51	33.17	207	318	Peak	HORIZONTAL
6	5860.00	63.34	68.20	-4.86	53.36	8.64	34.52	33.18	207	318	Peak	HORIZONTAL

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

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 ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

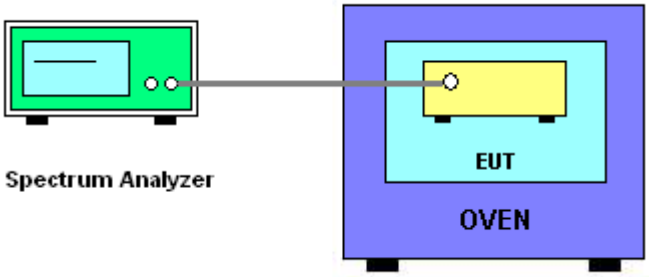
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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~50°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℃	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 23, 2015 ~ Nov. 10, 2015
Test Mode	Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi		

Mode: 20 MHz / Chain 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5200.0068	5200.0054	5200.0036	5200.0015
110.00	5200.0056	5200.0043	5200.0027	5200.0008
93.50	5200.0042	5200.0031	5200.0019	5199.9997
Max. Deviation (MHz)	0.0068	0.0054	0.0036	0.0015
Max. Deviation (ppm)	1.31	1.04	0.69	0.29
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5200.0110	5200.0097	5200.0080	5200.0056
-10	5200.0095	5200.0083	5200.0067	5200.0048
0	5200.0081	5200.0069	5200.0050	5200.0028
10	5200.0068	5200.0055	5200.0040	5200.0022
20	5200.0056	5200.0043	5200.0027	5200.0008
30	5200.0042	5200.0031	5200.0017	5200.0001
40	5200.0026	5200.0011	5199.9995	5199.9975
50	5200.0009	5199.9997	5199.9982	5199.9955
Max. Deviation (MHz)	0.0110	0.0097	0.0080	0.0056
Max. Deviation (ppm)	2.12	1.87	1.54	1.08

Result	Complies

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5785.0025	5785.0011	5784.9993	5784.9972
110.00	5785.0013	5785.0000	5784.9984	5784.9965
93.50	5784.9999	5784.9988	5784.9976	5784.9954
Max. Deviation (MHz)	0.0025	0.0012	0.0024	0.0046
Max. Deviation (ppm)	0.43	0.21	0.41	0.80
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5785.0067	5785.0054	5785.0037	5785.0013
-10	5785.0052	5785.0040	5785.0024	5785.0005
0	5785.0038	5785.0026	5785.0007	5784.9985
10	5785.0025	5785.0012	5784.9997	5784.9979
20	5785.0013	5785.0000	5784.9984	5784.9965
30	5784.9999	5784.9988	5784.9974	5784.9958
40	5784.9983	5784.9968	5784.9952	5784.9932
50	5784.9966	5784.9954	5784.9939	5784.9912
Max. Deviation (MHz)	0.0067	0.0054	0.0061	0.0088
Max. Deviation (ppm)	1.16	0.93	1.05	1.52
Result	Complies			

Mode: 40 MHz / Chain 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5190.0029	5190.0015	5189.9997	5189.9976
110.00	5190.0017	5190.0004	5189.9988	5189.9969
93.50	5190.0003	5189.9992	5189.9980	5189.9958
Max. Deviation (MHz)	0.0029	0.0015	0.0020	0.0042
Max. Deviation (ppm)	0.56	0.29	0.39	0.81
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5190.0071	5190.0058	5190.0041	5190.0017
-10	5190.0056	5190.0044	5190.0028	5190.0009
0	5190.0042	5190.0030	5190.0011	5189.9989
10	5190.0029	5190.0016	5190.0001	5189.9983
20	5190.0017	5190.0004	5189.9988	5189.9969
30	5190.0003	5189.9992	5189.9978	5189.9962
40	5189.9987	5189.9972	5189.9956	5189.9936
50	5189.9970	5189.9958	5189.9943	5189.9916
Max. Deviation (MHz)	0.0071	0.0058	0.0057	0.0084
Max. Deviation (ppm)	1.37	1.12	1.10	1.62
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5755.0099	5755.0085	5755.0067	5755.0046
110.00	5755.0087	5755.0074	5755.0058	5755.0039
93.50	5755.0073	5755.0062	5755.0050	5755.0028
Max. Deviation (MHz)	0.0099	0.0085	0.0067	0.0046
Max. Deviation (ppm)	1.72	1.48	1.16	0.80
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5755.0141	5755.0128	5755.0111	5755.0087
-10	5755.0126	5755.0114	5755.0098	5755.0079
0	5755.0112	5755.0100	5755.0081	5755.0059
10	5755.0099	5755.0086	5755.0071	5755.0053
20	5755.0087	5755.0074	5755.0058	5755.0039
30	5755.0073	5755.0062	5755.0048	5755.0032
40	5755.0057	5755.0042	5755.0026	5755.0006
50	5755.0040	5755.0028	5755.0013	5754.9986
Max. Deviation (MHz)	0.0141	0.0128	0.0111	0.0087
Max. Deviation (ppm)	2.45	2.22	1.93	1.51
Result	Complies			

Mode: 80 MHz / Chain 3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5210.0042	5210.0028	5210.0010	5209.9989
110.00	5210.0030	5210.0017	5210.0001	5209.9982
93.50	5210.0016	5210.0005	5209.9993	5209.9971
Max. Deviation (MHz)	0.0042	0.0028	0.0010	0.0029
Max. Deviation (ppm)	0.81	0.54	0.19	0.56
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5210.0084	5210.0071	5210.0054	5210.0030
-10	5210.0069	5210.0057	5210.0041	5210.0022
0	5210.0055	5210.0043	5210.0024	5210.0002
10	5210.0042	5210.0029	5210.0014	5209.9996
20	5210.0030	5210.0017	5210.0001	5209.9982
30	5210.0016	5210.0005	5209.9991	5209.9975
40	5210.0000	5209.9985	5209.9969	5209.9949
50	5209.9983	5209.9971	5209.9956	5209.9929
Max. Deviation (MHz)	0.0084	0.0071	0.0054	0.0071
Max. Deviation (ppm)	1.61	1.36	1.04	1.36
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5775.0029	5775.0015	5774.9997	5774.9976
110.00	5775.0017	5775.0004	5774.9988	5774.9969
93.50	5775.0003	5774.9992	5774.9980	5774.9958
Max. Deviation (MHz)	0.0029	0.0015	0.0020	0.0042
Max. Deviation (ppm)	0.50	0.26	0.35	0.73
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5775.0071	5775.0058	5775.0041	5775.0017
-10	5775.0056	5775.0044	5775.0028	5775.0009
0	5775.0042	5775.0030	5775.0011	5774.9989
10	5775.0029	5775.0016	5775.0001	5774.9983
20	5775.0017	5775.0004	5774.9988	5774.9969
30	5775.0003	5774.9992	5774.9978	5774.9962
40	5774.9987	5774.9972	5774.9956	5774.9936
50	5774.9970	5774.9958	5774.9943	5774.9916
Max. Deviation (MHz)	0.0071	0.0058	0.0057	0.0084
Max. Deviation (ppm)	1.23	1.00	0.99	1.45
Result	Complies			

Temperature	25℃	Humidity	50%
Test Engineer	Eddie Weng & Lucas Huang	Test Date	Oct. 20, 2015
Test Mode	Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi		

Mode: 20 MHz / Chain 4

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5200.0559	5200.0545	5200.0527	5200.0506
110.00	5200.0547	5200.0534	5200.0518	5200.0499
93.50	5200.0533	5200.0522	5200.0510	5200.0488
Max. Deviation (MHz)	0.0559	0.0545	0.0527	0.0506
Max. Deviation (ppm)	10.75	10.48	10.13	9.73
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(℃)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5200.0601	5200.0588	5200.0571	5200.0547
-10	5200.0586	5200.0574	5200.0558	5200.0539
0	5200.0572	5200.0560	5200.0541	5200.0519
10	5200.0559	5200.0546	5200.0531	5200.0513
20	5200.0547	5200.0534	5200.0518	5200.0499
30	5200.0533	5200.0522	5200.0508	5200.0492
40	5200.0517	5200.0502	5200.0486	5200.0466
50	5200.0500	5200.0488	5200.0473	5200.0446
Max. Deviation (MHz)	0.0601	0.0588	0.0571	0.0547
Max. Deviation (ppm)	11.56	11.31	10.98	10.52
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5785.0586	5785.0572	5785.0554	5785.0533
110.00	5785.0574	5785.0561	5785.0545	5785.0526
93.50	5785.0560	5785.0549	5785.0537	5785.0515
Max. Deviation (MHz)	0.0586	0.0572	0.0554	0.0533
Max. Deviation (ppm)	10.13	9.89	9.58	9.21
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5785.0628	5785.0615	5785.0598	5785.0574
-10	5785.0613	5785.0601	5785.0585	5785.0566
0	5785.0599	5785.0587	5785.0568	5785.0546
10	5785.0586	5785.0573	5785.0558	5785.0540
20	5785.0574	5785.0561	5785.0545	5785.0526
30	5785.0560	5785.0549	5785.0535	5785.0519
40	5785.0544	5785.0529	5785.0513	5785.0493
50	5785.0527	5785.0515	5785.0500	5785.0473
Max. Deviation (MHz)	0.0628	0.0615	0.0598	0.0574
Max. Deviation (ppm)	10.86	10.63	10.34	9.92
Result	Complies			

Mode: 40 MHz / Chain 4

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5190.0510	5190.0496	5190.0478	5190.0457
110.00	5190.0498	5190.0485	5190.0469	5190.0450
93.50	5190.0484	5190.0473	5190.0461	5190.0439
Max. Deviation (MHz)	0.0510	0.0496	0.0478	0.0457
Max. Deviation (ppm)	9.83	9.56	9.21	8.81
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5190.0552	5190.0539	5190.0522	5190.0498
-10	5190.0537	5190.0525	5190.0509	5190.0490
0	5190.0523	5190.0511	5190.0492	5190.0470
10	5190.0510	5190.0497	5190.0482	5190.0464
20	5190.0498	5190.0485	5190.0469	5190.0450
30	5190.0484	5190.0473	5190.0459	5190.0443
40	5190.0468	5190.0453	5190.0437	5190.0417
50	5190.0451	5190.0439	5190.0424	5190.0397
Max. Deviation (MHz)	0.0552	0.0539	0.0522	0.0498
Max. Deviation (ppm)	10.64	10.39	10.06	9.60
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5755.0635	5755.0621	5755.0603	5755.0582
110.00	5755.0623	5755.0610	5755.0594	5755.0575
93.50	5755.0609	5755.0598	5755.0586	5755.0564
Max. Deviation (MHz)	0.0635	0.0621	0.0603	0.0582
Max. Deviation (ppm)	11.03	10.79	10.48	10.11
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5755.0677	5755.0664	5755.0647	5755.0623
-10	5755.0662	5755.0650	5755.0634	5755.0615
0	5755.0648	5755.0636	5755.0617	5755.0595
10	5755.0635	5755.0622	5755.0607	5755.0589
20	5755.0623	5755.0610	5755.0594	5755.0575
30	5755.0609	5755.0598	5755.0584	5755.0568
40	5755.0593	5755.0578	5755.0562	5755.0542
50	5755.0576	5755.0564	5755.0549	5755.0522
Max. Deviation (MHz)	0.0677	0.0664	0.0647	0.0623
Max. Deviation (ppm)	11.76	11.54	11.24	10.83
Result	Complies			

Mode: 80 MHz / Chain 4

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5210.0603	5210.0589	5210.0571	5210.0550
110.00	5210.0591	5210.0578	5210.0562	5210.0543
93.50	5210.0577	5210.0566	5210.0554	5210.0532
Max. Deviation (MHz)	0.0603	0.0589	0.0571	0.0550
Max. Deviation (ppm)	11.57	11.31	10.96	10.56
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5210.0645	5210.0632	5210.0615	5210.0591
-10	5210.0630	5210.0618	5210.0602	5210.0583
0	5210.0616	5210.0604	5210.0585	5210.0563
10	5210.0603	5210.0590	5210.0575	5210.0557
20	5210.0591	5210.0578	5210.0562	5210.0543
30	5210.0577	5210.0566	5210.0552	5210.0536
40	5210.0561	5210.0546	5210.0530	5210.0510
50	5210.0544	5210.0532	5210.0517	5210.0490
Max. Deviation (MHz)	0.0645	0.0632	0.0615	0.0591
Max. Deviation (ppm)	12.38	12.13	11.80	11.34
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5775.0427	5775.0413	5775.0395	5775.0374
110.00	5775.0415	5775.0402	5775.0386	5775.0367
93.50	5775.0401	5775.0390	5775.0378	5775.0356
Max. Deviation (MHz)	0.0427	0.0413	0.0395	0.0374
Max. Deviation (ppm)	7.39	7.15	6.84	6.48
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-20	5775.0469	5775.0456	5775.0439	5775.0415
-10	5775.0454	5775.0442	5775.0426	5775.0407
0	5775.0440	5775.0428	5775.0409	5775.0387
10	5775.0427	5775.0414	5775.0399	5775.0381
20	5775.0415	5775.0402	5775.0386	5775.0367
30	5775.0401	5775.0390	5775.0376	5775.0360
40	5775.0385	5775.0370	5775.0354	5775.0334
50	5775.0368	5775.0356	5775.0341	5775.0314
Max. Deviation (MHz)	0.0469	0.0456	0.0439	0.0415
Max. Deviation (ppm)	8.12	7.90	7.60	7.19
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

Conducted Emission

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESR3	102051	9KHz ~ 3.6GHz	29/Apr/2017	Conduction (CO04-HY)
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	Conduction (CO04-HY)
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	20/Oct/2016	Conduction (CO04-HY)

Radiated Emission Below 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	03CH02-HY
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	21/Oct/2016	03CH02-HY
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	03CH02-HY
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	03CH02-HY
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	03CH02-HY
Receiver	R&S	ESU-26	100422/026	20Hz ~ 26.5GHz	21/Sep/2016	03CH02-HY
Loop Antenna	TESEQ	HLA 6120	24155	9 kHz~30 MHz	02/Mar/2017	01/Mar/2018

Radiated Emission Above 1GHz

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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)
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	Oct. 27, 2015	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. 02, 2015	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	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)

Conducted

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	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)

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

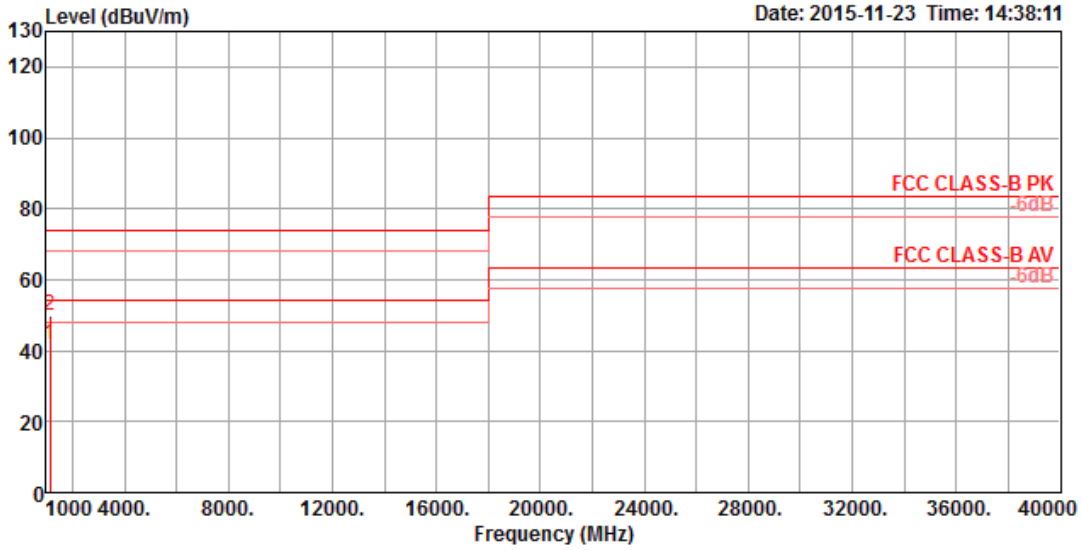
Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%

Appendix B. Radiated Emission Co-location Report

1. Results of Radiated Emissions for Co-located

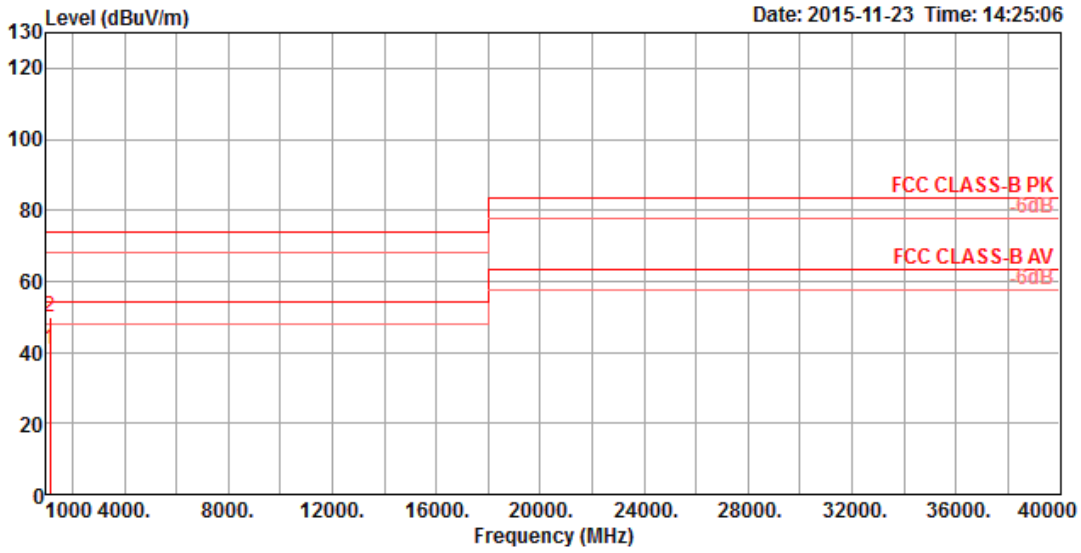
Temperature	25℃	**Humidity**	55%
Test Engineer	Stim Sung	**Configurations**	2.4GHz + 5GHz

Horizontal



	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	1129.38	41.78	54.00	-12.22	50.83	3.35	24.77	37.17	100	350	Average	HORIZONTAL
2	1129.38	49.78	74.00	-24.22	58.83	3.35	24.77	37.17	100	350	Peak	HORIZONTAL

Vertical



	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	1129.38	41.00	54.00	-13.00	50.05	3.35	24.77	37.17	100	285	Average	VERTICAL
2	1129.38	50.00	74.00	-24.00	59.05	3.35	24.77	37.17	100	285	Peak	VERTICAL