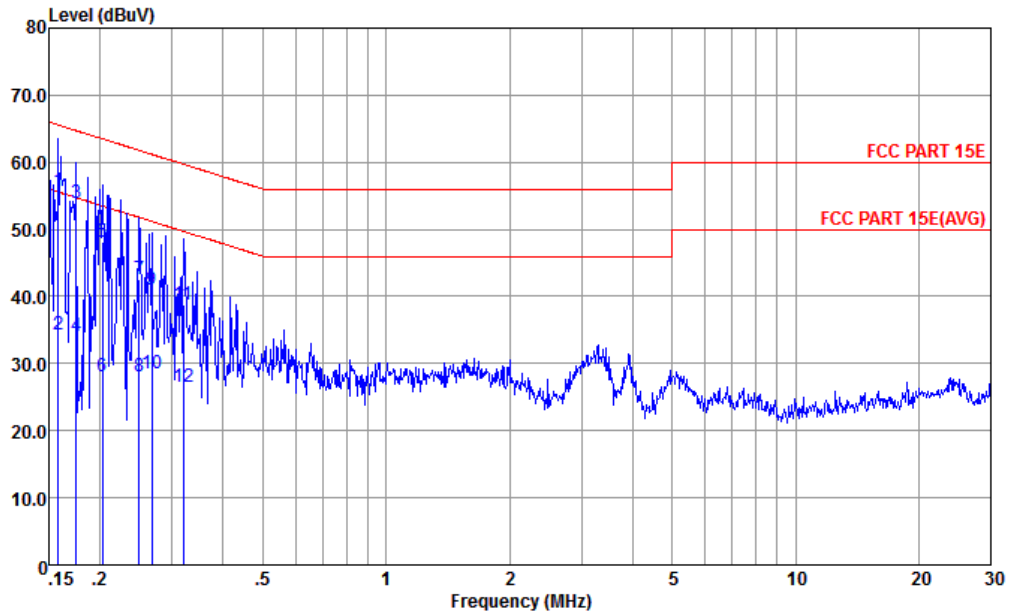




Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

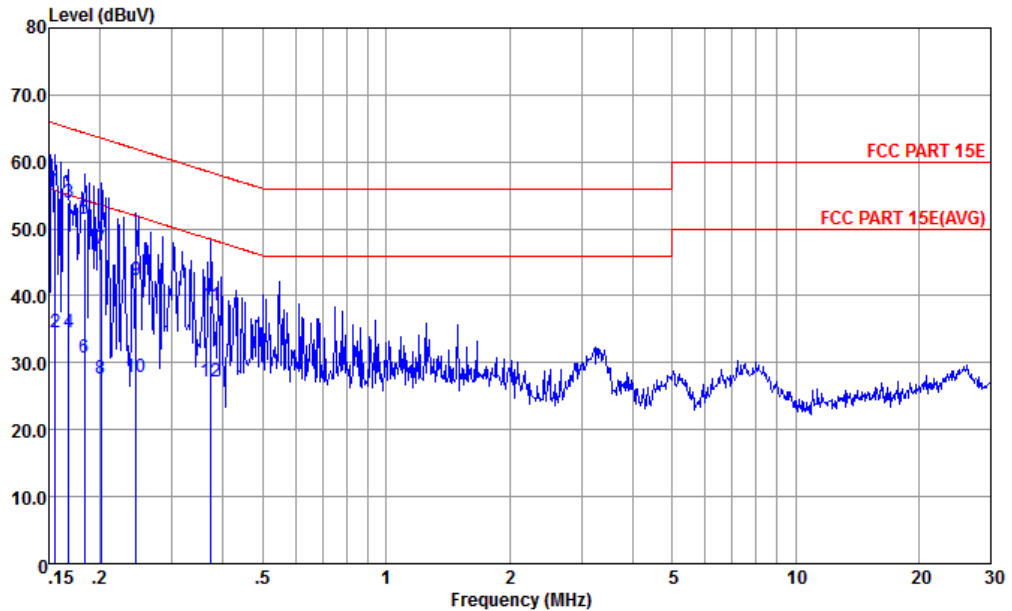


Site : CO01-KS
Condition : FCC PART 15E TWO-LISN-CN02-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.158	55.70	-9.86	65.56	35.60	9.64	10.46	QP
2	0.158	34.30	-21.26	55.56	14.20	9.64	10.46	Average
3	0.175	53.86	-10.86	64.72	33.80	9.64	10.42	QP
4	0.175	34.16	-20.56	54.72	14.10	9.64	10.42	Average
5	0.203	48.21	-15.28	63.49	28.21	9.64	10.36	QP
6	0.203	28.11	-25.38	53.49	8.11	9.64	10.36	Average
7	0.249	42.47	-19.31	61.78	22.50	9.64	10.33	QP
8	0.249	28.07	-23.71	51.78	8.10	9.64	10.33	Average
9	0.267	41.06	-20.14	61.20	21.10	9.64	10.32	QP
10	0.267	28.56	-22.64	51.20	8.60	9.64	10.32	Average
11	0.320	38.74	-20.97	59.71	18.80	9.64	10.30	QP
12	0.320	26.54	-23.17	49.71	6.60	9.64	10.30	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
 Condition : FCC PART 15E TWO-LISN-CN02-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.156	55.77	-9.92	65.69	35.49	9.81	10.47	QP
2	0.156	34.47	-21.22	55.69	14.19	9.81	10.47	Average
3	0.168	53.87	-11.21	65.08	33.60	9.84	10.43	QP
4	0.168	34.57	-20.51	55.08	14.30	9.84	10.43	Average
5	0.183	51.46	-12.87	64.33	31.19	9.87	10.40	QP
6	0.183	30.86	-23.47	54.33	10.59	9.87	10.40	Average
7	0.201	47.05	-16.53	63.58	26.80	9.89	10.36	QP
8	0.201	27.55	-26.03	53.58	7.30	9.89	10.36	Average
9	0.246	42.37	-19.54	61.91	22.19	9.84	10.34	QP
10	0.246	27.77	-24.14	51.91	7.59	9.84	10.34	Average
11	0.373	38.54	-19.89	58.43	18.50	9.76	10.28	QP
12	0.373	27.24	-21.19	48.43	7.20	9.76	10.28	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

U-NII-1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.6	62.57	-11.43	74	48.17	35.03	11.6	32.23	316	303	P	H
		5149.98	47.95	-6.05	54	33.55	35.03	11.6	32.23	316	303	A	H
	*	5182	109.94	-	-	95.49	35.06	11.63	32.24	316	303	P	H
		5182	102.56	-	-	88.11	35.06	11.63	32.24	316	303	A	H
		5149.98	65.57	-8.43	74	51.17	35.03	11.6	32.23	113	187	P	V
		5149.44	50.7	-3.3	54	36.3	35.03	11.6	32.23	113	187	A	V
	*	5182	116.47	-	-	102.02	35.06	11.63	32.24	113	187	P	V
		5182	108.97	-	-	94.52	35.06	11.63	32.24	113	187	A	V
802.11a CH 44 5220MHz		5142.24	57.46	-16.54	74	43.06	35.03	11.6	32.23	100	175	P	H
		5141.76	47.37	-6.63	54	32.97	35.03	11.6	32.23	100	175	A	H
		5224	110.29	-	-	95.78	35.09	11.67	32.25	100	175	P	H
		5224	102.49	-	-	87.98	35.09	11.67	32.25	100	175	A	H
		5387.76	55.46	-18.54	74	40.64	35.26	11.84	32.28	100	175	P	H
		5381.1	45.98	-8.02	54	31.16	35.26	11.84	32.28	100	175	A	H
		5132.64	59.3	-14.7	74	44.94	35.01	11.58	32.23	105	185	P	V
		5141.12	49.53	-4.47	54	35.13	35.03	11.6	32.23	105	185	A	V
		5224	116.08	-	-	101.57	35.09	11.67	32.25	105	185	P	V
		5224	109.19	-	-	94.68	35.09	11.67	32.25	105	185	A	V
		5378.4	56.95	-17.05	74	42.13	35.26	11.84	32.28	105	185	P	V
	5381.1	47.64	-6.36	54	32.82	35.26	11.84	32.28	105	185	A	V	



802.11a CH 48 5240MHz		5382.54	55.79	-18.21	74	40.97	35.26	11.84	32.28	101	176	P	H
		5398.38	46.27	-7.73	54	31.42	35.27	11.86	32.28	101	176	A	H
		5236	111.08	-	-	96.54	35.11	11.68	32.25	101	176	P	H
		5236	103.62	-	-	89.08	35.11	11.68	32.25	101	176	A	H
		5397.84	57.46	-16.54	74	42.61	35.27	11.86	32.28	100	187	P	V
		5397.12	47.96	-6.04	54	33.11	35.27	11.86	32.28	100	187	A	V
		5236	116.76	-	-	102.22	35.11	11.68	32.25	100	187	P	V
		5236	109.38	-	-	94.84	35.11	11.68	32.25	100	187	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



U-NII-1 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10358.36	46.58	-21.72	68.3	52.01	38.32	16.93	60.68	300	0	P	H
		10358.36	46.88	-21.42	68.3	52.31	38.32	16.93	60.68	300	0	P	V
802.11a CH 44 5220MHz		10443.44	48.4	-19.9	68.3	53.68	38.35	17.03	60.66	300	0	P	H
		10433.43	47.98	-20.32	68.3	53.26	38.35	17.03	60.66	300	0	P	V
802.11a CH 48 5240MHz		10478.47	48.99	-19.31	68.3	54.19	38.36	17.09	60.65	300	0	P	H
		10478.47	46.21	-22.09	68.3	51.41	38.36	17.09	60.65	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII-1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 36 5180MHz		5149.12	61.72	-12.28	74	47.32	35.03	11.6	32.23	285	306	P	H
		5149.98	48.23	-5.77	54	33.83	35.03	11.6	32.23	285	306	A	H
	*	5182	108.73	-	-	94.28	35.06	11.63	32.24	285	306	P	H
		5182	101.17	-	-	86.72	35.06	11.63	32.24	285	306	A	H
		5147.84	65.46	-8.54	74	51.06	35.03	11.6	32.23	113	187	P	V
		5149.98	50.98	-3.02	54	36.58	35.03	11.6	32.23	113	187	A	V
	*	5182	115.03	-	-	100.58	35.06	11.63	32.24	113	187	P	V
		5182	107.53	-	-	93.08	35.06	11.63	32.24	113	187	A	V
802.11ac VHT20 CH 44 5220MHz		5142.4	57.2	-16.8	74	42.8	35.03	11.6	32.23	100	172	P	H
		5141.12	47.28	-6.72	54	32.88	35.03	11.6	32.23	100	172	A	H
		5218	111.65	-	-	97.13	35.09	11.67	32.24	100	172	P	H
		5218	103.5	-	-	88.98	35.09	11.67	32.24	100	172	A	H
		5385.42	55.68	-18.32	74	40.86	35.26	11.84	32.28	100	172	P	H
		5378.04	45.98	-8.02	54	31.16	35.26	11.84	32.28	100	172	A	H
		5138.72	60.32	-13.68	74	45.96	35.01	11.58	32.23	106	186	P	V
		5137.92	49.22	-4.78	54	34.86	35.01	11.58	32.23	106	186	A	V
		5218	116.84	-	-	102.32	35.09	11.67	32.24	106	186	P	V
		5218	110	-	-	95.48	35.09	11.67	32.24	106	186	A	V
		5373.18	57.19	-16.81	74	42.4	35.24	11.82	32.27	106	186	P	V
		5377.86	47.66	-6.34	54	32.84	35.26	11.84	32.28	106	186	A	V



802.11ac VHT20 CH 48 5240MHz		5395.86	55.42	-18.58	74	40.57	35.27	11.86	32.28	100	173	P	H
		5398.74	46.01	-7.99	54	31.16	35.27	11.86	32.28	100	173	A	H
		5242	108.4	-	-	93.82	35.13	11.7	32.25	100	173	P	H
		5242	100.87	-	-	86.29	35.13	11.7	32.25	100	173	A	H
		5364.54	57.06	-16.94	74	42.27	35.24	11.82	32.27	100	186	P	V
		5399.28	47.15	-6.85	54	32.3	35.27	11.86	32.28	100	186	A	V
		5242	114.49	-	-	99.91	35.13	11.7	32.25	100	186	P	V
	5242	106.82	-	-	92.24	35.13	11.7	32.25	100	186	A	V	
Remark	<ol style="list-style-type: none"> 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 												



U-NII-1 5150~5250MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for channels 36, 44, and 48.



**U-NII-1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5142.88	58.26	-15.74	74	43.86	35.03	11.6	32.23	286	307	P	H
		5150	48.3	-5.7	54	33.9	35.03	11.6	32.23	286	307	A	H
	*	5188	103.8	-	-	89.35	35.06	11.63	32.24	286	307	P	H
		5188	96.05	-	-	81.6	35.06	11.63	32.24	286	307	A	H
		5376.24	55.61	-18.39	74	40.83	35.24	11.82	32.28	286	307	P	H
		5399.1	45.72	-8.28	54	30.87	35.27	11.86	32.28	286	307	A	H
		5143.36	60.49	-13.51	74	46.09	35.03	11.6	32.23	106	187	P	V
		5150	50.8	-3.2	54	36.4	35.03	11.6	32.23	106	187	A	V
	*	5188	109.87	-	-	95.42	35.06	11.63	32.24	106	187	P	V
		5188	102.02	-	-	87.57	35.06	11.63	32.24	106	187	A	V
802.11ac VHT40 CH 46 5230MHz		5145.76	58.73	-15.27	74	44.33	35.03	11.6	32.23	298	303	P	H
		5148.64	48.64	-5.36	54	34.24	35.03	11.6	32.23	298	303	A	H
		5230	108.63	-	-	94.09	35.11	11.68	32.25	298	303	P	H
		5230	100.98	-	-	86.44	35.11	11.68	32.25	298	303	A	H
		5396.4	56.02	-17.98	74	41.17	35.27	11.86	32.28	298	303	P	H
		5399.1	45.93	-8.07	54	31.08	35.27	11.86	32.28	298	303	A	H
		5145.28	59.72	-14.28	74	45.32	35.03	11.6	32.23	110	181	P	V
		5149.12	49.79	-4.21	54	35.39	35.03	11.6	32.23	110	181	A	V
		5230	113.98	-	-	99.44	35.11	11.68	32.25	110	181	P	V
		5230	105.82	-	-	91.28	35.11	11.68	32.25	110	181	A	V
	5376.42	57.23	-16.77	74	42.45	35.24	11.82	32.28	110	181	P	V	
	5388.3	47.18	-6.82	54	32.36	35.26	11.84	32.28	110	181	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT40 CH 38 5190MHz and CH 46 5230MHz, plus a Remark section.



U-NII-1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT80 CH 42 5210MHz and a Remark section.



U-NII-1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80		10418.42	44.62	-23.68	68.3	49.94	38.34	17.01	60.67	100	360	P	H
CH 42 5210MHz		10418.42	45.61	-22.69	68.3	50.93	38.34	17.01	60.67	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-1 - 5150~5250MHz

DU-NII-2A - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5113.6	58.35	-15.65	74	44.01	35	11.56	32.22	105	176	P	H
		5104.48	47.16	-6.84	54	32.86	34.98	11.54	32.22	105	176	A	H
		5260	113.34	-	-	98.73	35.14	11.72	32.25	105	176	P	H
		5260	105.78	-	-	91.17	35.14	11.72	32.25	105	176	A	H
		5130.88	58.64	-15.36	74	44.28	35.01	11.58	32.23	103	187	P	V
		5104.32	48.33	-5.67	54	34.03	34.98	11.54	32.22	103	187	A	V
		5260	118.96	-	-	104.35	35.14	11.72	32.25	103	187	P	V
		5260	112.03	-	-	97.42	35.14	11.72	32.25	103	187	A	V
802.11a CH 60 5300MHz		5126.88	56.87	-17.13	74	42.51	35.01	11.58	32.23	297	176	P	H
		5101.12	46.63	-7.37	54	32.33	34.98	11.54	32.22	297	176	A	H
		5302	108.48	-	-	93.81	35.18	11.75	32.26	297	176	P	H
		5302	101.38	-	-	86.71	35.18	11.75	32.26	297	176	A	H
		5386.3	56.58	-17.42	74	41.76	35.26	11.84	32.28	297	176	P	H
		5381.5	46.57	-7.43	54	31.75	35.26	11.84	32.28	297	176	A	H
		5131.36	57.9	-16.1	74	43.54	35.01	11.58	32.23	100	184	P	V
		5138.24	48.16	-5.84	54	33.8	35.01	11.58	32.23	100	184	A	V
		5296	116.36	-	-	101.69	35.18	11.75	32.26	100	184	P	V
		5296	109.18	-	-	94.51	35.18	11.75	32.26	100	184	A	V
		5377.7	58.75	-15.25	74	43.93	35.26	11.84	32.28	100	184	P	V
		5377.7	49.83	-4.17	54	35.01	35.26	11.84	32.28	100	184	A	V



802.11a CH 64 5320MHz		5368.4	56.83	-17.17	74	42.04	35.24	11.82	32.27	333	187	P	H
		5399.8	46.64	-7.36	54	31.79	35.27	11.86	32.28	333	187	A	H
	*	5320	106.67	-	-	91.97	35.19	11.77	32.26	333	187	P	H
		5320	100.17	-	-	85.47	35.19	11.77	32.26	333	187	A	H
		5355.7	59.95	-14.05	74	45.2	35.22	11.8	32.27	119	184	P	V
		5350	50.28	-3.72	54	35.53	35.22	11.8	32.27	119	184	A	V
	*	5320	115.42	-	-	100.72	35.19	11.77	32.26	119	184	P	V
		5320	108.43	-	-	93.73	35.19	11.77	32.26	119	184	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



U-NII-2A 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for channels 52, 60, and 64 at various frequencies.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ac VHT20 CH 52 (5260MHz) and 802.11ac VHT20 CH 60 (5300MHz).



802.11ac VHT20 CH 64 5320MHz		5357.7	56.86	-17.14	74	42.11	35.22	11.8	32.27	315	180	P	H
		5398.2	46.57	-7.43	54	31.72	35.27	11.86	32.28	315	180	A	H
	*	5320	103.89	-	-	89.19	35.19	11.77	32.26	315	180	P	H
		5320	96.47	-	-	81.77	35.19	11.77	32.26	315	180	A	H
		5350.7	65.81	-8.19	74	51.06	35.22	11.8	32.27	100	183	P	V
		5350.3	50.58	-3.42	54	35.83	35.22	11.8	32.27	100	183	A	V
	*	5314	114.49	-	-	99.79	35.19	11.77	32.26	100	183	P	V
		5314	106.63	-	-	91.93	35.19	11.77	32.26	100	183	A	V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



**U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		10518.52	45.78	-22.52	68.3	50.94	38.37	17.12	60.65	300	0	P	H
CH 52 5260MHz		10518.52	45.64	-22.66	68.3	50.8	38.37	17.12	60.65	300	0	P	V
802.11ac VHT20		10600.01	46.77	-27.23	74	51.83	38.4	17.17	60.63	300	0	P	H
CH 60 5300MHz		10600.01	45.82	-28.18	74	50.88	38.4	17.17	60.63	300	0	P	V
802.11ac VHT20		10638.63	46.79	-27.21	74	51.8	38.41	17.2	60.62	300	0	P	H
CH 64 5320MHz		10638.63	44.91	-29.09	74	49.92	38.41	17.2	60.62	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 54 5270MHz		5125.12	58.18	-15.82	74	43.82	35.01	11.58	32.23	299	184	P	H
		5103.68	46.92	-7.08	54	32.62	34.98	11.54	32.22	299	184	A	H
		5278	106.81	-	-	92.18	35.16	11.73	32.26	299	184	P	H
		5278	98.84	-	-	84.21	35.16	11.73	32.26	299	184	A	H
		5399.4	55.89	-18.11	74	41.04	35.27	11.86	32.28	299	184	P	H
		5398.7	46.29	-7.71	54	31.44	35.27	11.86	32.28	299	184	A	H
		5149.44	58.68	-15.32	74	44.28	35.03	11.6	32.23	116	182	P	V
		5118.08	47.68	-6.32	54	33.35	35	11.56	32.23	116	182	A	V
		5272	114.12	-	-	99.52	35.14	11.72	32.26	116	182	P	V
		5272	106.49	-	-	91.89	35.14	11.72	32.26	116	182	A	V
		5354	59.97	-14.03	74	45.22	35.22	11.8	32.27	116	182	P	V
		5352.3	49.05	-4.95	54	34.3	35.22	11.8	32.27	116	182	A	V
802.11ac VHT40 CH 62 5310MHz		5140.64	57.3	-16.7	74	42.9	35.03	11.6	32.23	315	186	P	H
		5100.16	46.73	-7.27	54	32.43	34.98	11.54	32.22	315	186	A	H
	*	5302	100.46	-	-	85.79	35.18	11.75	32.26	315	186	P	H
		5302	92.92	-	-	78.25	35.18	11.75	32.26	315	186	A	H
		5379	56.34	-17.66	74	41.52	35.26	11.84	32.28	315	186	P	H
		5392.7	46.15	-7.85	54	31.33	35.26	11.84	32.28	315	186	A	H
		5142.4	57.74	-16.26	74	43.34	35.03	11.6	32.23	100	186	P	V
		5148.48	46.96	-7.04	54	32.56	35.03	11.6	32.23	100	186	A	V
	*	5314	108.33	-	-	93.63	35.19	11.77	32.26	100	186	P	V
		5314	100.5	-	-	85.8	35.19	11.77	32.26	100	186	A	V
	5355.6	58.45	-15.55	74	43.7	35.22	11.8	32.27	100	186	P	V	
	5350.5	48.87	-5.13	54	34.12	35.22	11.8	32.27	100	186	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include data for 802.11ac VHT40 CH 54 and CH 62 at various frequencies.



**U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5104.32	57.62	-16.38	74	43.32	34.98	11.54	32.22	300	182	P	H
		5100.32	46.85	-7.15	54	32.55	34.98	11.54	32.22	300	182	A	H
	*	5284	94.4	-	-	79.77	35.16	11.73	32.26	300	182	P	H
		5284	86.2	-	-	71.57	35.16	11.73	32.26	300	182	A	H
		5386.5	56.54	-17.46	74	41.72	35.26	11.84	32.28	300	182	P	H
		5350.5	46.62	-7.38	54	31.87	35.22	11.8	32.27	300	182	A	H
		5144.48	57.53	-16.47	74	43.13	35.03	11.6	32.23	102	184	P	V
		5141.12	46.92	-7.08	54	32.52	35.03	11.6	32.23	102	184	A	V
	*	5296	103.62	-	-	88.95	35.18	11.75	32.26	102	184	P	V
		5296	96.35	-	-	81.68	35.18	11.75	32.26	102	184	A	V
		5354.7	59.44	-14.56	74	44.69	35.22	11.8	32.27	102	184	P	V
	5350.3	50.83	-3.17	54	36.08	35.22	11.8	32.27	102	184	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2A 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11ac VHT80 CH 58 5290MHz and a Remark section.



U-NII-2C - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5446.48	56.84	-17.16	74	41.9	35.32	11.91	32.29	293	176	P	H
		5469.84	56.08	-12.22	68.3	41.1	35.34	11.93	32.29	293	176	P	H
		5458	46.91	-7.09	54	31.97	35.32	11.91	32.29	293	176	A	H
	*	5500	107.14	-	-	92.11	35.37	11.96	32.3	293	176	P	H
		5500	98.17	-	-	83.14	35.37	11.96	32.3	293	176	A	H
		5419.12	60.36	-13.64	74	45.48	35.29	11.87	32.28	115	191	P	V
		5468.4	60.17	-8.13	68.3	45.19	35.34	11.93	32.29	115	191	P	V
		5418	50.31	-3.69	54	35.43	35.29	11.87	32.28	115	191	A	V
	*	5500	115.31	-	-	100.28	35.37	11.96	32.3	115	191	P	V
		5500	107.92	-	-	92.89	35.37	11.96	32.3	115	191	A	V
802.11a CH 116 5580MHz		5442.64	57.19	-16.81	74	42.28	35.31	11.89	32.29	300	169	P	H
		5463.44	56.16	-12.14	68.3	41.18	35.34	11.93	32.29	300	169	P	H
		5453.68	46.71	-7.29	54	31.77	35.32	11.91	32.29	300	169	A	H
		5578	109.22	-	-	94.04	35.44	12.02	32.28	300	169	P	H
		5578	101.86	-	-	86.68	35.44	12.02	32.28	300	169	A	H
		5749.32	57.62	-10.68	68.3	42.03	35.68	12.16	32.25	300	169	P	H
		5454	58.05	-15.95	74	43.11	35.32	11.91	32.29	120	186	P	V
		5464.72	57.46	-10.84	68.3	42.48	35.34	11.93	32.29	120	186	P	V
		5417.2	49	-5	54	34.12	35.29	11.87	32.28	120	186	A	V
		5578	117.06	-	-	101.88	35.44	12.02	32.28	120	186	P	V
		5578	109.46	-	-	94.28	35.44	12.02	32.28	120	186	A	V
		5736.2	60.3	-8	68.3	44.72	35.68	12.16	32.26	120	186	P	V



802.11a CH 140 5700MHz		5726.2	58.3	-10	68.3	42.76	35.65	12.15	32.26	270	138	P	H
	*	5704	108.69	-	-	93.2	35.62	12.13	32.26	270	138	P	H
		5704	101.04	-	-	85.55	35.62	12.13	32.26	270	138	A	H
		5727	64.72	-3.58	68.3	49.18	35.65	12.15	32.26	129	178	P	V
	*	5704	116.69	-	-	101.2	35.62	12.13	32.26	129	178	P	V
		5704	109.25	-	-	93.76	35.62	12.13	32.26	129	178	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		10999	45.03	-28.97	74	49.62	38.53	17.42	60.54	300	0	P	H
		10999	44.84	-29.16	74	49.43	38.53	17.42	60.54	300	0	P	V
802.11a CH 116 5580MHz		11159.16	46.34	-27.66	74	50.76	38.59	17.49	60.5	300	0	P	H
		11159.16	46.36	-27.64	74	50.78	38.59	17.49	60.5	300	0	P	V
802.11a CH 140 5700MHz		11399.39	45.85	-28.15	74	50.04	38.67	17.59	60.45	300	0	P	H
		11399.39	44.99	-29.01	74	49.18	38.67	17.59	60.45	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20 CH 100 5500MHz		5419.44	57.63	-16.37	74	42.75	35.29	11.87	32.28	295	181	P	H
		5468.56	57.09	-11.21	68.3	42.11	35.34	11.93	32.29	295	181	P	H
		5460	47.54	-6.46	54	32.6	35.32	11.91	32.29	295	181	A	H
	*	5500	108.27	-	-	93.24	35.37	11.96	32.3	295	181	P	H
		5500	99.7	-	-	84.67	35.37	11.96	32.3	295	181	A	H
		5457.84	60.17	-13.83	74	45.23	35.32	11.91	32.29	107	181	P	V
		5464.72	60.84	-7.46	68.3	45.86	35.34	11.93	32.29	107	181	P	V
		5460	50.22	-3.78	54	35.28	35.32	11.91	32.29	107	181	A	V
	*	5500	115.04	-	-	100.01	35.37	11.96	32.3	107	181	P	V
	5500	106.42	-	-	91.39	35.37	11.96	32.3	107	181	A	V	
802.11ac VHT20 CH 116 5580MHz		5442.96	56.98	-17.02	74	42.07	35.31	11.89	32.29	299	139	P	H
		5464.72	56.4	-11.9	68.3	41.42	35.34	11.93	32.29	299	139	P	H
		5456.88	46.62	-7.38	54	31.68	35.32	11.91	32.29	299	139	A	H
		5584	108.34	-	-	93.14	35.45	12.03	32.28	299	139	P	H
		5584	99.57	-	-	84.37	35.45	12.03	32.28	299	139	A	H
		5757.08	57.81	-10.49	68.3	42.16	35.72	12.18	32.25	299	139	P	H
		5458.32	58.11	-15.89	74	43.17	35.32	11.91	32.29	119	182	P	V
		5461.2	58.34	-9.96	68.3	43.4	35.32	11.91	32.29	119	182	P	V
		5418.16	48.56	-5.44	54	33.68	35.29	11.87	32.28	119	182	A	V
		5578	115.86	-	-	100.68	35.44	12.02	32.28	119	182	P	V
	5578	108.71	-	-	93.53	35.44	12.02	32.28	119	182	A	V	
	5742.44	58.76	-9.54	68.3	43.17	35.68	12.16	32.25	119	182	P	V	



802.11ac VHT20 CH 140 5700MHz		5740.12	57.36	-10.94	68.3	41.77	35.68	12.16	32.25	318	136	P	H
	*	5698	104.06	-	-	88.61	35.59	12.12	32.26	318	136	P	H
		5698	95.38	-	-	79.93	35.59	12.12	32.26	318	136	A	H
		5725.24	64.57	-3.73	68.3	49.03	35.65	12.15	32.26	128	176	P	V
	*	5704	112.83	-	-	97.34	35.62	12.13	32.26	128	176	P	V
		5704	105.12	-	-	89.63	35.62	12.13	32.26	128	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT20		10999	45.22	-28.78	74	49.81	38.53	17.42	60.54	300	0	P	H
CH 100		10999	45.32	-28.68	74	49.91	38.53	17.42	60.54	300	0	P	V
5500MHz													
802.11ac VHT20		11159.16	46.1	-27.9	74	50.52	38.59	17.49	60.5	300	0	P	H
CH 116		11159.16	46.94	-27.06	74	51.36	38.59	17.49	60.5	300	0	P	V
5580MHz													
802.11ac VHT20		11399.39	44.72	-29.28	74	48.91	38.67	17.59	60.45	300	0	P	H
CH 140		11399.39	45.94	-28.06	74	50.13	38.67	17.59	60.45	300	0	P	V
5700MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII-2C - 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		5445.04	57.31	-16.69	74	42.4	35.31	11.89	32.29	294	180	P	H
		5460.4	57.71	-10.59	68.3	42.77	35.32	11.91	32.29	294	180	P	H
		5458.8	47.2	-6.8	54	32.26	35.32	11.91	32.29	294	180	A	H
	*	5506	102.62	-	-	87.58	35.37	11.96	32.29	294	180	P	H
		5506	95.09	-	-	80.05	35.37	11.96	32.29	294	180	A	H
		5730.76	57.89	-10.41	68.3	42.35	35.65	12.15	32.26	294	180	P	H
		5439.6	60.31	-13.69	74	45.4	35.31	11.89	32.29	128	182	P	V
		5469.52	63	-5.3	68.3	48.02	35.34	11.93	32.29	128	182	P	V
		5460	50.15	-3.85	54	35.21	35.32	11.91	32.29	128	182	A	V
	*	5506	110.33	-	-	95.29	35.37	11.96	32.29	128	182	P	V
		5506	101.37	-	-	86.33	35.37	11.96	32.29	128	182	A	V
	5746.76	56.72	-11.58	68.3	41.13	35.68	12.16	32.25	128	182	P	V	
802.11ac VHT40 CH 110 5550MHz		5453.68	57.41	-16.59	74	42.47	35.32	11.91	32.29	305	177	P	H
		5468.88	59.12	-9.18	68.3	44.14	35.34	11.93	32.29	305	177	P	H
		5459.92	47.26	-6.74	54	32.32	35.32	11.91	32.29	305	177	A	H
		5548	105.93	-	-	90.8	35.42	12	32.29	305	177	P	H
		5548	99.34	-	-	84.21	35.42	12	32.29	305	177	A	H
		5753.24	57.08	-11.22	68.3	41.43	35.72	12.18	32.25	305	177	P	H
		5457.04	61.53	-12.47	74	46.59	35.32	11.91	32.29	100	183	P	V
		5467.6	62.97	-5.33	68.3	47.99	35.34	11.93	32.29	100	183	P	V
		5459.92	50.97	-3.03	54	36.03	35.32	11.91	32.29	100	183	A	V
		5554	116.16	-	-	101.03	35.42	12	32.29	100	183	P	V
		5554	107.76	-	-	92.63	35.42	12	32.29	100	183	A	V
	5763.64	57.42	-10.88	68.3	41.77	35.72	12.18	32.25	100	183	P	V	



802.11ac VHT40 CH 134 5670MHz		5443.6	57.63	-16.37	74	42.72	35.31	11.89	32.29	324	134	P	H
		5463.6	55.73	-12.57	68.3	40.75	35.34	11.93	32.29	324	134	P	H
		5456.56	46.34	-7.66	54	31.4	35.32	11.91	32.29	324	134	A	H
	*	5674	104.53	-	-	89.13	35.56	12.1	32.26	324	134	P	H
		5674	96.7	-	-	81.3	35.56	12.1	32.26	324	134	A	H
		5727.96	58.75	-9.55	68.3	43.21	35.65	12.15	32.26	324	134	P	H
		5420.08	56.97	-17.03	74	42.09	35.29	11.87	32.28	127	180	P	V
		5469.84	56.63	-11.67	68.3	41.65	35.34	11.93	32.29	127	180	P	V
		5459.76	46.74	-7.26	54	31.8	35.32	11.91	32.29	127	180	A	V
	*	5674	113.66	-	-	98.26	35.56	12.1	32.26	127	180	P	V
		5674	105.19	-	-	89.79	35.56	12.1	32.26	127	180	A	V
		5726.76	64.77	-3.53	68.3	49.23	35.65	12.15	32.26	127	180	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40		11019.02	44.23	-29.77	74	48.8	38.54	17.43	60.54	100	360	P	H
CH 102		11019.02	45.05	-28.95	74	49.62	38.54	17.43	60.54	100	360	P	V
5510MHz													
802.11ac VHT40		11099.1	46.67	-27.33	74	51.16	38.57	17.46	60.52	100	360	P	H
CH 110		11099.1	46.9	-27.1	74	51.39	38.57	17.46	60.52	100	360	P	V
5550MHz													
802.11ac VHT40		11339.33	45.85	-28.15	74	50.12	38.64	17.56	60.47	100	360	P	H
CH 134		11339.33	44.45	-29.55	74	48.72	38.64	17.56	60.47	100	360	P	V
5670MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**U-NII-2C 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5445.04	56.68	-17.32	74	41.77	35.31	11.89	32.29	290	182	P	H
		5464.08	55.64	-12.66	68.3	40.66	35.34	11.93	32.29	290	182	P	H
		5457.84	46.87	-7.13	54	31.93	35.32	11.91	32.29	290	182	A	H
	*	5530	95.03	-	-	79.96	35.39	11.97	32.29	290	182	P	H
		5530	86.31	-	-	71.24	35.39	11.97	32.29	290	182	A	H
		5764.68	57.61	-10.69	68.3	41.96	35.72	12.18	32.25	290	182	P	H
		5452.24	59.74	-14.26	74	44.8	35.32	11.91	32.29	100	190	P	V
		5470	62.18	-6.12	68.3	47.2	35.34	11.93	32.29	100	190	P	V
		5458.16	50.76	-3.24	54	35.82	35.32	11.91	32.29	100	190	A	V
	*	5524	103.38	-	-	88.31	35.39	11.97	32.29	100	190	P	V
		5524	96.28	-	-	81.21	35.39	11.97	32.29	100	190	A	V
		5753.88	57.5	-10.8	68.3	41.85	35.72	12.18	32.25	100	190	P	V
802.11ac VHT80 CH 122 5610MHz		5449.68	56.56	-17.44	74	41.62	35.32	11.91	32.29	297	176	P	H
		5462	56.78	-11.52	68.3	41.84	35.32	11.91	32.29	297	176	P	H
		5458.48	46.98	-7.02	54	32.04	35.32	11.91	32.29	297	176	A	H
	*	5620	101.46	-	-	86.2	35.48	12.06	32.28	297	176	P	H
		5620	93.7	-	-	78.44	35.48	12.06	32.28	297	176	A	H
		5752.36	57.88	-10.42	68.3	42.23	35.72	12.18	32.25	297	176	P	H
		5437.52	60.52	-13.48	74	45.61	35.31	11.89	32.29	100	186	P	V
		5468.24	59.65	-8.65	68.3	44.67	35.34	11.93	32.29	100	186	P	V
		5458.16	49.35	-4.65	54	34.41	35.32	11.91	32.29	100	186	A	V
	*	5614	111.13	-	-	95.89	35.47	12.05	32.28	100	186	P	V
	5614	102.99	-	-	87.75	35.47	12.05	32.28	100	186	A	V	
	5726.44	64.76	-3.54	68.3	49.22	35.65	12.15	32.26	100	186	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test results for 802.11ac VHT80 CH 106 5530MHz and CH 122 5610MHz, plus a Remark section.



U-NII-2C 5470~5725MHz

U-NII-2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5722	107.73	-	-	92.19	35.65	12.15	32.26	400	0	P	H
		5722	100.78	-	-	85.24	35.65	12.15	32.26	400	0	A	H
	*	5722	115.1	-	-	99.56	35.65	12.15	32.26	100	0	P	V
		5722	108.4	-	-	92.86	35.65	12.15	32.26	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11439.44	47.82	-26.18	74	51.98	38.68	17.6	60.44	300	0	P	H
		11439.44	48.66	-25.34	74	52.82	38.68	17.6	60.44	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - Straddle Channel
WIFI 802.11ac VHT20 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ac VHT20 and CH 144 5720MHz with various test results.

U-NII-2C - Straddle Channel
WIFI 802.11ac VHT20 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ac VHT20 and CH 144 5720MHz with various test results.



U-NII-2C - Straddle Channel
WIFI 802.11ac VHT40 (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ac VHT40 and CH 142 5710MHz.

U-NII-2C - Straddle Channel
WIFI 802.11ac VHT40 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include 802.11ac VHT40 and CH 142 5710MHz.



U-NII-2C - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5692	101.57	-	-	86.12	35.59	12.12	32.26	400	0	P	H
VHT80		5692	94.23	-	-	78.78	35.59	12.12	32.26	400	0	A	H
CH 138	*	5698	111.1	-	-	95.65	35.59	12.12	32.26	100	0	P	V
5690MHz		5698	103.62	-	-	88.17	35.59	12.12	32.26	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

U-NII-2C - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11379.38	45.86	-28.14	74	50.08	38.66	17.58	60.46	300	0	P	H
VHT80													
CH 138		11379.38	45.72	-28.28	74	49.94	38.66	17.58	60.46	300	0	P	V
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-2C - Straddle Channel

Emission below 1GHz

5GHz WIFI 802.11ac VHT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT20 LF		167.74	34.08	-9.42	43.5	47.94	17.08	1.97	32.91	-	-	P	H
		242.43	37.84	-8.16	46	49.64	18.92	2.38	33.1	100	0	P	H
		291.9	34.11	-11.89	46	44.36	20.07	2.61	32.93	-	-	P	H
		431.58	31.71	-14.29	46	38.01	23.27	3.17	32.74	-	-	P	H
		751.68	31.07	-14.93	46	33.04	26.52	4.2	32.69	-	-	P	H
		900.09	37.04	-8.96	46	37.55	27.4	4.59	32.5	-	-	P	H
		56.19	21.73	-18.27	40	39.75	14.04	1.12	33.18	-	-	P	V
		167.74	35.11	-8.39	43.5	48.97	17.08	1.97	32.91	200	0	P	V
		242.43	37.45	-8.55	46	49.25	18.92	2.38	33.1	-	-	P	V
		292.87	33.39	-12.61	46	43.62	20.09	2.61	32.93	-	-	P	V
		431.58	30.4	-15.6	46	36.7	23.27	3.17	32.74	-	-	P	V
	621.7	27.84	-18.16	46	30.96	25.67	3.8	32.59	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

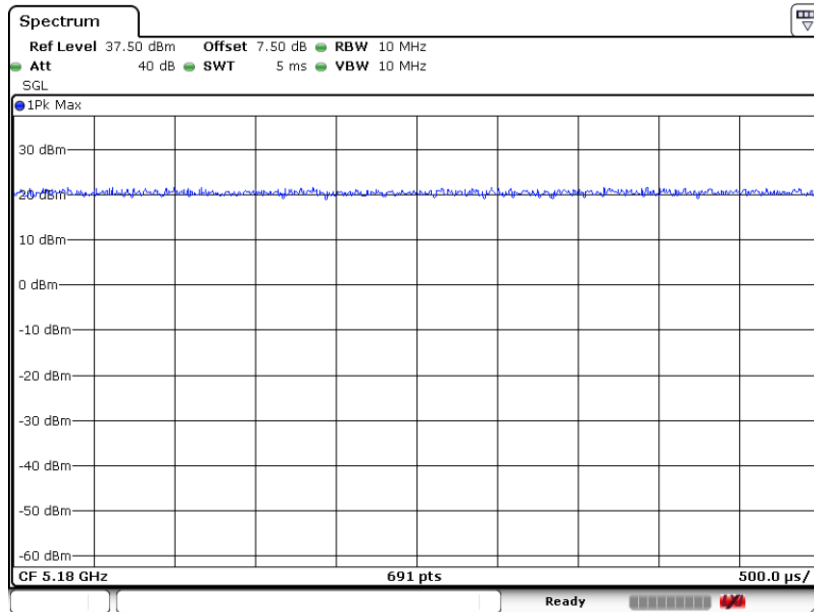
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

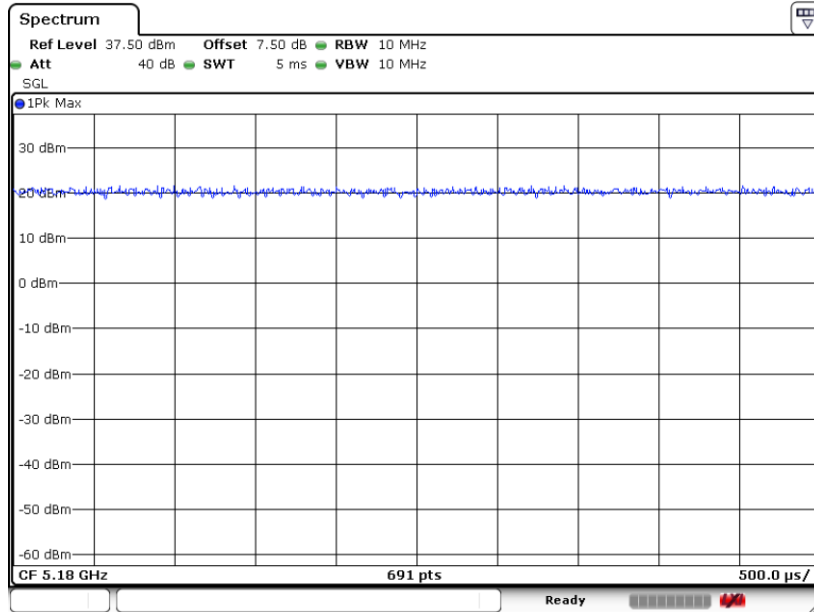
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	100	-	-	10Hz
1+2	802.11ac VHT20	100	-	-	10Hz
1+2	802.11ac VHT40	100	-	-	10Hz
1+2	802.11ac VHT80	100	-	-	10Hz

802.11a

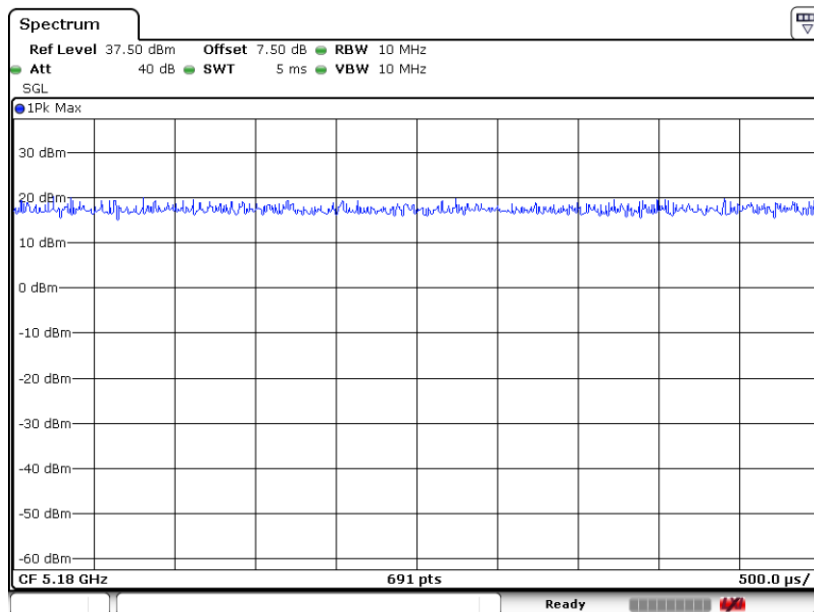




802.11ac VHT20



802.11ac VHT40





802.11ac VHT80

