



Appendix B. Radiated Spurious Emission

Test Engineer :	Ray Lee, Stan Liu, and Tsung Lee	Temperature :	21~22°C
		Relative Humidity :	46~47%

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5707.64	54.94	-19.06	74	46.78	32.52	8.3	32.66	100	5	P	H
		5724.84	63.47	-14.83	78.3	55.27	32.53	8.33	32.66	100	5	P	H
		5715	46.02	-7.98	54	37.86	32.52	8.3	32.66	100	5	A	H
	*	5743	107.59	-	-	99.39	32.54	8.33	32.67	100	5	P	H
	*	5743	99.54	-	-	91.34	32.54	8.33	32.67	100	5	A	H
													H
													H
													H
		5713.56	51.53	-22.47	74	43.37	32.52	8.3	32.66	109	117	P	V
		5723.32	56.33	-21.97	78.3	48.13	32.53	8.33	32.66	109	117	P	V
		5714.6	43.17	-10.83	54	35.01	32.52	8.3	32.66	109	117	A	V
	*	5743	104.12	-	-	95.92	32.54	8.33	32.67	109	117	P	V
	*	5743	96.28	-	-	88.08	32.54	8.33	32.67	109	117	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5712.68	60.7	-13.3	74	52.54	32.52	8.3	32.66	100	8	P	H
		5715.48	59.24	-19.06	78.3	51.08	32.52	8.3	32.66	100	8	P	H
		5711.56	53.04	-0.96	54	44.88	32.52	8.3	32.66	100	8	A	H
	*	5783	108.38	-	-	100.14	32.57	8.35	32.68	100	8	P	H
	*	5783	100.58	-	-	92.34	32.57	8.35	32.68	100	8	A	H
		5858.8	56.74	-21.56	78.3	48.4	32.62	8.43	32.71	100	8	P	H
		5863.12	57.23	-16.77	74	48.89	32.62	8.43	32.71	100	8	P	H
		5865.6	49.29	-4.71	54	40.95	32.62	8.43	32.71	100	8	A	H
		5708.92	56.5	-17.5	74	48.34	32.52	8.3	32.66	112	114	P	V
		5715.4	54.34	-23.96	78.3	46.18	32.52	8.3	32.66	112	114	P	V
		5704.28	49.06	-4.94	54	40.89	32.52	8.3	32.65	112	114	A	V
	*	5783	102.04	-	-	93.8	32.57	8.35	32.68	112	114	P	V
	*	5783	95.82	-	-	87.58	32.57	8.35	32.68	112	114	A	V
		5856.08	52.65	-25.65	78.3	44.3	32.62	8.43	32.7	112	114	P	V
		5866.32	52.94	-21.06	74	44.6	32.62	8.43	32.71	112	114	P	V
		5860.08	45.23	-8.77	54	36.89	32.62	8.43	32.71	112	114	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5827	107.25	-	-	98.95	32.6	8.39	32.69	100	9	P	H
	*	5827	98.54	-	-	90.24	32.6	8.39	32.69	100	9	A	H
		5851.84	62.52	-15.78	78.3	54.18	32.61	8.43	32.7	100	9	P	H
		5861.84	56.46	-17.54	74	48.12	32.62	8.43	32.71	100	9	P	H
		5860	44.76	-9.24	54	36.42	32.62	8.43	32.71	100	9	A	H
													H
													H
													H
	*	5823	102.6	-	-	94.3	32.6	8.39	32.69	119	115	P	V
	*	5823	94.34	-	-	86.04	32.6	8.39	32.69	119	115	A	V
		5851.28	55.75	-22.55	78.3	47.41	32.61	8.43	32.7	119	115	P	V
		5861.12	50.55	-23.45	74	42.21	32.62	8.43	32.71	119	115	P	V
		5860	41.75	-12.25	54	33.41	32.62	8.43	32.71	119	115	A	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.29	-28.71	74	55.5	40.01	12.58	62.8	100	0	P	H
		17232	45.85	-28.15	74	49.33	41.05	15.61	60.14	100	0	P	H
													H
													H
		11490	46.15	-27.85	74	56.36	40.01	12.58	62.8	100	0	P	V
		17232	46.04	-27.96	74	49.52	41.05	15.61	60.14	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	46.28	-27.72	74	56.48	39.88	12.66	62.74	100	0	P	H
		17352	48.1	-25.9	74	51.18	41.38	15.75	60.21	100	0	P	H
													H
													H
		11570	45.47	-28.53	74	55.67	39.88	12.66	62.74	100	0	P	V
		17352	46.61	-27.39	74	49.69	41.38	15.75	60.21	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	46.34	-27.66	74	56.55	39.75	12.73	62.69	100	0	P	H
		17472	46.66	-27.34	74	49.35	41.71	15.88	60.28	100	0	P	H
													H
													H
		11650	47.33	-26.67	74	57.54	39.75	12.73	62.69	100	0	P	V
		17472	47.02	-26.98	74	49.71	41.71	15.88	60.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5712.84	55.76	-18.24	74	47.6	32.52	8.3	32.66	100	5	P	H
		5725	62.92	-15.38	78.3	54.72	32.53	8.33	32.66	100	5	P	H
		5714.44	48.03	-5.97	54	39.87	32.52	8.3	32.66	100	5	A	H
	*	5743	106.15	-	-	97.95	32.54	8.33	32.67	100	5	P	H
	*	5743	99.78	-	-	91.58	32.54	8.33	32.67	100	5	A	H
													H
													H
													H
		5712.04	53.72	-20.28	74	45.56	32.52	8.3	32.66	109	116	P	V
		5725	59.57	-18.73	78.3	51.37	32.53	8.33	32.66	109	116	P	V
		5715	44.91	-9.09	54	36.75	32.52	8.3	32.66	109	116	A	V
	*	5743	102.77	-	-	94.57	32.54	8.33	32.67	109	116	P	V
	*	5743	96.41	-	-	88.21	32.54	8.33	32.67	109	116	A	V
													V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5712.68	60.95	-13.05	74	52.79	32.52	8.3	32.66	100	8	P	H
		5716.92	57.63	-20.67	78.3	49.47	32.52	8.3	32.66	100	8	P	H
		5711.48	53.61	-0.39	54	45.45	32.52	8.3	32.66	100	8	A	H
	*	5787	108.08	-	-	99.83	32.58	8.35	32.68	100	8	P	H
	*	5787	100.75	-	-	92.5	32.58	8.35	32.68	100	8	A	H
		5857.44	57	-21.3	78.3	48.65	32.62	8.43	32.7	100	8	P	H
		5860.48	57.35	-16.65	74	49.01	32.62	8.43	32.71	100	8	P	H
		5865.68	49.9	-4.1	54	41.56	32.62	8.43	32.71	100	8	A	H
		5704.6	57.68	-16.32	74	49.51	32.52	8.3	32.65	114	115	P	V
		5715.88	55.27	-23.03	78.3	47.11	32.52	8.3	32.66	114	115	P	V
		5704.44	50.42	-3.58	54	42.25	32.52	8.3	32.65	114	115	A	V
	*	5787	103.07	-	-	94.82	32.58	8.35	32.68	114	115	P	V
	*	5787	96.2	-	-	87.95	32.58	8.35	32.68	114	115	A	V
		5858.72	55.16	-23.14	78.3	46.82	32.62	8.43	32.71	114	115	P	V
		5860.88	53.46	-20.54	74	45.12	32.62	8.43	32.71	114	115	P	V
		5865.84	46.26	-7.74	54	37.92	32.62	8.43	32.71	114	115	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5823	107.09	-	-	98.79	32.6	8.39	32.69	100	9	P	H
	*	5823	100.12	-	-	91.82	32.6	8.39	32.69	100	9	A	H
		5851.52	59.64	-18.66	78.3	51.3	32.61	8.43	32.7	100	9	P	H
		5860.96	55.08	-18.92	74	46.74	32.62	8.43	32.71	100	9	P	H
		5860.8	45.95	-8.05	54	37.61	32.62	8.43	32.71	100	9	A	H
													H
													H
													H
	*	5827	102.63	-	-	94.33	32.6	8.39	32.69	119	115	P	V
	*	5827	96.14	-	-	87.84	32.6	8.39	32.69	119	115	A	V
		5850.4	54.64	-23.66	78.3	46.3	32.61	8.43	32.7	119	115	P	V
		5860.64	52.12	-21.88	74	43.78	32.62	8.43	32.71	119	115	P	V
		5860.24	42.81	-11.19	54	34.47	32.62	8.43	32.71	119	115	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	45.46	-28.54	74	55.67	40.01	12.58	62.8	100	0	P	H
		17232	46.76	-27.24	74	50.24	41.05	15.61	60.14	100	0	P	H
													H
													H
		11490	46.38	-27.62	74	56.59	40.01	12.58	62.8	100	0	P	V
		17232	45.59	-28.41	74	49.07	41.05	15.61	60.14	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	45.32	-28.68	74	55.52	39.88	12.66	62.74	100	0	P	H
		17352	47.3	-26.7	74	50.38	41.38	15.75	60.21	100	0	P	H
													H
													H
		11570	47.37	-26.63	74	57.57	39.88	12.66	62.74	100	0	P	V
		17352	46.58	-27.42	74	49.66	41.38	15.75	60.21	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	45.77	-28.23	74	55.98	39.75	12.73	62.69	100	0	P	H
		17472	47.04	-26.96	74	49.73	41.71	15.88	60.28	100	0	P	H
													H
													H
		11650	47.3	-26.7	74	57.51	39.75	12.73	62.69	100	0	P	V
		17472	46.73	-27.27	74	49.42	41.71	15.88	60.28	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5713.72	60.02	-13.98	74	51.86	32.52	8.3	32.66	100	8	P	H
		5719.32	65.19	-13.11	78.3	57.02	32.53	8.3	32.66	100	8	P	H
		5715	52.81	-1.19	54	44.65	32.52	8.3	32.66	100	8	A	H
	*	5753	104.12	-	-	95.9	32.56	8.33	32.67	100	8	P	H
	*	5753	97.61	-	-	89.39	32.56	8.33	32.67	100	8	A	H
		5850.32	52.2	-26.1	78.3	43.86	32.61	8.43	32.7	100	8	P	H
		5869.28	51.47	-22.53	74	43.13	32.62	8.43	32.71	100	8	P	H
		5880.08	43.75	-10.25	54	35.4	32.63	8.43	32.71	100	8	A	H
		5712.76	56.32	-17.68	74	48.16	32.52	8.3	32.66	110	115	P	V
		5724.68	60.45	-17.85	78.3	52.25	32.53	8.33	32.66	110	115	P	V
		5714.76	49.41	-4.59	54	41.25	32.52	8.3	32.66	110	115	A	V
	*	5753	101.21	-	-	92.99	32.56	8.33	32.67	110	115	P	V
	*	5753	94	-	-	85.78	32.56	8.33	32.67	110	115	A	V
		5856.4	48.08	-30.22	78.3	39.73	32.62	8.43	32.7	110	115	P	V
		5880.96	49.8	-24.2	74	41.45	32.63	8.43	32.71	110	115	P	V
		5863.28	41.25	-12.75	54	32.91	32.62	8.43	32.71	110	115	A	V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5708.36	59.29	-14.71	74	51.13	32.52	8.3	32.66	100	8	P	H
		5715.48	59.05	-19.25	78.3	50.89	32.52	8.3	32.66	100	8	P	H
		5715	52.46	-1.54	54	44.3	32.52	8.3	32.66	100	8	A	H
	*	5793	105.27	-	-	97.02	32.58	8.35	32.68	100	8	P	H
	*	5793	98.32	-	-	90.07	32.58	8.35	32.68	100	8	A	H
		5858.56	54.13	-24.17	78.3	45.79	32.62	8.43	32.71	100	8	P	H
		5876.88	57.54	-16.46	74	49.19	32.63	8.43	32.71	100	8	P	H
		5876.4	48.78	-5.22	54	40.43	32.63	8.43	32.71	100	8	A	H
		5710.84	56.44	-17.56	74	48.28	32.52	8.3	32.66	110	115	P	V
		5719.8	56.72	-21.58	78.3	48.55	32.53	8.3	32.66	110	115	P	V
		5711.96	48.24	-5.76	54	40.08	32.52	8.3	32.66	110	115	A	V
	*	5793	99.95	-	-	91.7	32.58	8.35	32.68	110	115	P	V
	*	5793	93.65	-	-	85.4	32.58	8.35	32.68	110	115	A	V
		5850.72	52.25	-26.05	78.3	43.91	32.61	8.43	32.7	110	115	P	V
		5878.48	52.37	-21.63	74	44.02	32.63	8.43	32.71	110	115	P	V
		5881.84	45	-9	54	36.61	32.63	8.47	32.71	110	115	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	46.57	-27.43	74	56.79	40	12.58	62.8	100	0	P	H
		17268	45.74	-28.26	74	49.09	41.15	15.66	60.16	100	0	P	H
													H
													H
		11510	45.58	-28.42	74	55.8	40	12.58	62.8	100	0	P	V
		17268	45.37	-28.63	74	48.72	41.15	15.66	60.16	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	44.55	-29.45	74	54.78	39.84	12.66	62.73	100	0	P	H
		17388	45.88	-28.12	74	48.85	41.47	15.79	60.23	100	0	P	H
													H
													H
		11590	45.7	-28.3	74	55.93	39.84	12.66	62.73	100	0	P	V
		17388	46.12	-27.88	74	49.09	41.47	15.79	60.23	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5714.12	67.62	-0.68	68.3	59.46	32.52	8.3	32.66	100	7	P	H
		5724.84	69.35	-8.95	78.3	61.15	32.53	8.33	32.66	100	7	P	H
	*	5773	103.26	-	-	95.01	32.57	8.35	32.67	100	7	P	H
		5773	95.51	-	-	87.26	32.57	8.35	32.67	100	7	A	H
		5854.16	63.04	-15.26	78.3	54.69	32.62	8.43	32.7	100	7	P	H
		5864.56	60.24	-8.06	68.3	51.9	32.62	8.43	32.71	100	7	P	H
													H
													H
		5711.32	62.67	-5.63	68.3	54.51	32.52	8.3	32.66	126	115	P	V
		5724.36	64.35	-13.95	78.3	56.15	32.53	8.33	32.66	126	115	P	V
	*	5773	98.67	-	-	90.42	32.57	8.35	32.67	126	115	P	V
		5773	91.37	-	-	83.12	32.57	8.35	32.67	126	115	A	V
		5851.44	56.28	-22.02	78.3	47.94	32.61	8.43	32.7	126	115	P	V
		5860.24	54.8	-13.5	68.3	46.46	32.62	8.43	32.71	126	115	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	47.49	-26.51	74	57.72	39.91	12.62	62.76	100	0	P	H
		17328	45.71	-22.59	68.3	48.86	41.29	15.75	60.19	100	0	P	H
													H
													H
		11550	46.17	-27.83	74	56.4	39.91	12.62	62.76	100	0	P	V
		17328	46.36	-21.94	68.3	49.51	41.29	15.75	60.19	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11n HT20 LF		30	24.9	-15.1	40	31.27	25.8	0.65	32.82	-	-	P	H
		198.75	32.3	-11.2	43.5	47.8	15.75	1.48	32.73	-	-	P	H
		212.25	32.75	-10.75	43.5	47.78	16.08	1.62	32.73	100	225	P	H
		311.9	32.58	-13.42	46	43.56	19.88	1.88	32.74	-	-	P	H
		407.8	30.87	-15.13	46	39.22	22.34	2.16	32.85	-	-	P	H
		597.5	31.08	-14.92	46	36.19	25.35	2.57	33.03	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.2	-6.8	40	39.57	25.8	0.65	32.82	100	57	P	V
		200.1	30.62	-12.88	43.5	46.07	15.8	1.48	32.73	-	-	P	V
		213.33	32.27	-11.23	43.5	47.31	16.07	1.62	32.73	-	-	P	V
		407.8	30.59	-15.41	46	38.94	22.34	2.16	32.85	-	-	P	V
		503.7	30.99	-15.01	46	37.55	24.03	2.33	32.92	-	-	P	V
		598.2	33.75	-12.25	46	38.84	25.37	2.57	33.03	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5697.8	65.57	-2.73	68.3	57.41	32.51	8.3	32.65	100	356	P	H
		5717.16	59.45	-18.85	78.3	51.29	32.52	8.3	32.66	100	356	P	H
	*	5784	104.61	-	-	96.37	32.57	8.35	32.68	100	356	P	H
		5784	98.09	-	-	89.85	32.57	8.35	32.68	100	356	A	H
		5856.24	59.38	-18.92	78.3	51.03	32.62	8.43	32.7	100	356	P	H
		5886.24	60.74	-7.56	68.3	52.36	32.63	8.47	32.72	100	356	P	H
													H
													H
		5699.96	54.84	-13.46	68.3	46.68	32.51	8.3	32.65	291	355	P	V
		5715	52.53	-25.77	78.3	44.37	32.52	8.3	32.66	291	355	P	V
	*	5783	98.06	-	-	89.82	32.57	8.35	32.68	291	355	P	V
		5783	91.42	-	-	83.18	32.57	8.35	32.68	291	355	A	V
		5858.56	51.46	-26.84	78.3	43.12	32.62	8.43	32.71	291	355	P	V
		5860.8	53.97	-14.33	68.3	45.63	32.62	8.43	32.71	291	355	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		11570	48.66	-25.34	74	58.86	39.88	12.66	62.74	100	0	P	H
		17355	49.65	-18.65	68.3	52.69	41.38	15.79	60.21	100	0	P	H
													H
													H
		11570	52.88	-21.12	74	63.08	39.88	12.66	62.74	100	0	P	V
		17355	52.25	-16.05	68.3	55.29	41.38	15.79	60.21	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11n HT20 LF		31.08	25.15	-14.85	40	32.06	25.26	0.65	32.82	-	-	P	H
		199.29	31.79	-11.71	43.5	47.24	15.8	1.48	32.73	100	73	P	H
		213.06	30.98	-12.52	43.5	46.02	16.07	1.62	32.73	-	-	P	H
		311.9	32.47	-13.53	46	43.45	19.88	1.88	32.74	-	-	P	H
		407.8	30.97	-15.03	46	39.32	22.34	2.16	32.85	-	-	P	H
		598.9	29.87	-16.13	46	34.96	25.37	2.57	33.03	-	-	P	H
													H
													H
													H
													H
													H
													H
		30.27	33.07	-6.93	40	39.44	25.8	0.65	32.82	100	148	P	V
		174.99	29.84	-13.66	43.5	45.44	15.63	1.48	32.71	-	-	P	V
		210.09	30.25	-13.25	43.5	45.26	16.1	1.62	32.73	-	-	P	V
		407.8	30.72	-15.28	46	39.07	22.34	2.16	32.85	-	-	P	V
		503.7	30.38	-15.62	46	36.94	24.03	2.33	32.92	-	-	P	V
		599.6	32.4	-13.6	46	37.48	25.38	2.57	33.03	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT20 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5705.08	56.18	-17.82	74	48.02	32.52	8.3	32.66	100	6	P	H
		5722.92	63.47	-14.83	78.3	55.27	32.53	8.33	32.66	100	6	P	H
		5713.88	46.56	-7.44	54	38.4	32.52	8.3	32.66	100	6	A	H
	*	5744	106.19	-	-	97.99	32.54	8.33	32.67	100	6	P	H
	*	5744	98.81	-	-	90.61	32.54	8.33	32.67	100	6	A	H
													H
													H
													H
		5709.56	51.73	-22.27	74	43.57	32.52	8.3	32.66	111	115	P	V
		5724.04	60.92	-17.38	78.3	52.72	32.53	8.33	32.66	111	115	P	V
		5713.88	43.88	-10.12	54	35.72	32.52	8.3	32.66	111	115	A	V
	*	5743	101.23	-	-	93.03	32.54	8.33	32.67	111	115	P	V
	*	5743	94.72	-	-	86.52	32.54	8.33	32.67	111	115	A	V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5704.04	60.37	-13.63	74	52.2	32.52	8.3	32.65	100	6	P	H
		5715.96	57.07	-21.23	78.3	48.91	32.52	8.3	32.66	100	6	P	H
		5704.2	52.91	-1.09	54	44.74	32.52	8.3	32.65	100	6	A	H
	*	5787	106.41	-	-	98.16	32.58	8.35	32.68	100	6	P	H
	*	5787	99.77	-	-	91.52	32.58	8.35	32.68	100	6	A	H
		5858.64	55.49	-22.81	78.3	47.15	32.62	8.43	32.71	100	6	P	H
		5866.16	55.66	-18.34	74	47.32	32.62	8.43	32.71	100	6	P	H
		5863.28	48.43	-5.57	54	40.09	32.62	8.43	32.71	100	6	A	H
		5703.48	55.17	-18.83	74	47	32.52	8.3	32.65	108	115	P	V
		5715.24	52.7	-25.6	78.3	44.54	32.52	8.3	32.66	108	115	P	V
		5711.96	48.23	-5.77	54	40.07	32.52	8.3	32.66	108	115	A	V
	*	5783	100.58	-	-	92.34	32.57	8.35	32.68	108	115	P	V
	*	5783	94.65	-	-	86.41	32.57	8.35	32.68	108	115	A	V
		5854.16	51.28	-27.02	78.3	42.93	32.62	8.43	32.7	108	115	P	V
		5860.48	51.48	-22.52	74	43.14	32.62	8.43	32.71	108	115	P	V
		5862.48	44.09	-9.91	54	35.75	32.62	8.43	32.71	108	115	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz	*	5823	106.91	-	-	98.61	32.6	8.39	32.69	100	8	P	H
	*	5823	100.02	-	-	91.72	32.6	8.39	32.69	100	8	A	H
		5854.96	55.15	-23.15	78.3	46.8	32.62	8.43	32.7	100	8	P	H
		5863.12	52.08	-21.92	74	43.74	32.62	8.43	32.71	100	8	P	H
		5861.28	44.87	-9.13	54	36.53	32.62	8.43	32.71	100	8	A	H
													H
													H
													H
	*	5823	101.96	-	-	93.66	32.6	8.39	32.69	103	115	P	V
	*	5823	94.73	-	-	86.43	32.6	8.39	32.69	103	115	A	V
		5852	55.69	-22.61	78.3	47.35	32.61	8.43	32.7	103	115	P	V
		5867.36	49.1	-24.9	74	40.76	32.62	8.43	32.71	103	115	P	V
		5865.52	41.47	-12.53	54	33.13	32.62	8.43	32.71	103	115	A	V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT20 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		11490	46.08	-27.92	74	56.29	40.01	12.58	62.8	100	0	P	H
		17235	46.12	-27.88	74	49.55	41.05	15.66	60.14	100	0	P	H
													H
													H
		11490	46.56	-27.44	74	56.77	40.01	12.58	62.8	100	0	P	V
		17235	45.56	-28.44	74	48.99	41.05	15.66	60.14	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	48.87	-25.13	74	59.07	39.88	12.66	62.74	100	0	P	H
		17355	47.12	-26.88	74	50.16	41.38	15.79	60.21	100	0	P	H
													H
													H
		11570	50.1	-23.9	74	60.3	39.88	12.66	62.74	100	0	P	V
		17355	47.68	-26.32	74	50.72	41.38	15.79	60.21	100	0	P	V
													V
													V
802.11n HT20 CH 165 5825MHz		11650	48.49	-25.51	74	58.7	39.75	12.73	62.69	100	0	P	H
		17475	46.44	-27.56	74	49.08	41.71	15.93	60.28	100	0	P	H
													H
													H
		11650	51.04	-22.96	74	61.25	39.75	12.73	62.69	100	0	P	V
		17475	49.68	-24.32	74	52.32	41.71	15.93	60.28	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5714.52	58.71	-15.29	74	50.55	32.52	8.3	32.66	100	5	P	H
		5724.28	66.38	-11.92	78.3	58.18	32.53	8.33	32.66	100	5	P	H
		5714.76	52.71	-1.29	54	44.55	32.52	8.3	32.66	100	5	A	H
	*	5757	103.05	-	-	94.83	32.56	8.33	32.67	100	5	P	H
	*	5757	96.3	-	-	88.08	32.56	8.33	32.67	100	5	A	H
		5858	50.21	-28.09	78.3	41.87	32.62	8.43	32.71	100	5	P	H
		5882.56	51.7	-22.3	74	43.31	32.63	8.47	32.71	100	5	P	H
		5873.92	42.58	-11.42	54	34.23	32.63	8.43	32.71	100	5	A	H
		5714.92	56.8	-17.2	74	48.64	32.52	8.3	32.66	113	115	P	V
		5724.6	63.97	-14.33	78.3	55.77	32.53	8.33	32.66	113	115	P	V
		5714.44	49.43	-4.57	54	41.27	32.52	8.3	32.66	113	115	A	V
	*	5753	98.47	-	-	90.25	32.56	8.33	32.67	113	115	P	V
	*	5753	91.59	-	-	83.37	32.56	8.33	32.67	113	115	A	V
		5856.08	48.34	-29.96	78.3	39.99	32.62	8.43	32.7	113	115	P	V
		5887.04	49.62	-24.38	74	41.24	32.63	8.47	32.72	113	115	P	V
		5860.32	40.89	-13.11	54	32.55	32.62	8.43	32.71	113	115	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5705.72	58.04	-15.96	74	49.88	32.52	8.3	32.66	100	6	P	H
		5722.84	57.56	-20.74	78.3	49.36	32.53	8.33	32.66	100	6	P	H
		5706.44	50.8	-3.2	54	42.64	32.52	8.3	32.66	100	6	A	H
	*	5797	104.12	-	-	95.87	32.58	8.35	32.68	100	6	P	H
	*	5797	96.91	-	-	88.66	32.58	8.35	32.68	100	6	A	H
		5859.84	53.73	-24.57	78.3	45.39	32.62	8.43	32.71	100	6	P	H
		5882.96	54.65	-19.35	74	46.26	32.63	8.47	32.71	100	6	P	H
		5880.56	46.94	-7.06	54	38.59	32.63	8.43	32.71	100	6	A	H
		5714.36	53.37	-20.63	74	45.21	32.52	8.3	32.66	111	114	P	V
		5723.64	53.32	-24.98	78.3	45.12	32.53	8.33	32.66	111	114	P	V
		5710.76	46.06	-7.94	54	37.9	32.52	8.3	32.66	111	114	A	V
	*	5793	98.38	-	-	90.13	32.58	8.35	32.68	111	114	P	V
	*	5793	91.52	-	-	83.27	32.58	8.35	32.68	111	114	A	V
		5859.44	51.46	-26.84	78.3	43.12	32.62	8.43	32.71	111	114	P	V
		5864.8	50.7	-23.3	74	42.36	32.62	8.43	32.71	111	114	P	V
		5877.28	43.32	-10.68	54	34.97	32.63	8.43	32.71	111	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11n HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		11510	45.37	-28.63	74	55.59	40	12.58	62.8	100	0	P	H
		17265	45.41	-28.59	74	48.76	41.15	15.66	60.16	100	0	P	H
													H
													H
		11510	45.53	-28.47	74	55.75	40	12.58	62.8	100	0	P	V
		17265	46.51	-27.49	74	49.86	41.15	15.66	60.16	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	45.98	-28.02	74	56.21	39.84	12.66	62.73	100	0	P	H
		17385	45.34	-28.66	74	48.31	41.47	15.79	60.23	100	0	P	H
													H
													H
		11590	45.89	-28.11	74	56.12	39.84	12.66	62.73	100	0	P	V
		17385	46.28	-27.72	74	49.25	41.47	15.79	60.23	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5711.4	66.07	-2.23	68.3	57.91	32.52	8.3	32.66	100	5	P	H
		5718.92	66.88	-11.42	78.3	58.71	32.53	8.3	32.66	100	5	P	H
	*	5773	99.29	-	-	91.04	32.57	8.35	32.67	100	5	P	H
		5773	95.37	-	-	87.12	32.57	8.35	32.67	100	5	A	H
		5852.16	54.75	-23.55	78.3	46.41	32.61	8.43	32.7	100	5	P	H
		5861.52	53.61	-14.69	68.3	45.27	32.62	8.43	32.71	100	5	P	H
													H
													H
		5714.2	59.62	-8.68	68.3	51.46	32.52	8.3	32.66	115	112	P	V
		5722.12	60.9	-17.4	78.3	52.7	32.53	8.33	32.66	115	112	P	V
	*	5773	94.45	-	-	86.2	32.57	8.35	32.67	115	112	P	V
		5773	89.85	-	-	81.6	32.57	8.35	32.67	115	112	A	V
		5854.8	51.42	-26.88	78.3	43.07	32.62	8.43	32.7	115	112	P	V
		5861.12	50.96	-17.34	68.3	42.62	32.62	8.43	32.71	115	112	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		11550	45.3	-28.7	74	55.53	39.91	12.62	62.76	100	0	P	H
		17325	47.3	-21	68.3	50.45	41.29	15.75	60.19	100	0	P	H
													H
													H
		11550	44.99	-29.01	74	55.22	39.91	12.62	62.76	100	0	P	V
		17325	45.92	-22.38	68.3	49.07	41.29	15.75	60.19	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
5GHz 802.11n HT20 LF		30.81	25.62	-14.38	40	32.53	25.26	0.65	32.82	-	-	P	H
		174.99	30.6	-12.9	43.5	46.2	15.63	1.48	32.71	-	-	P	H
		200.1	33.18	-10.32	43.5	48.63	15.8	1.48	32.73	100	280	P	H
		311.9	32.48	-13.52	46	43.46	19.88	1.88	32.74	-	-	P	H
		407.8	31.16	-14.84	46	39.51	22.34	2.16	32.85	-	-	P	H
		432.3	30.33	-15.67	46	38.25	22.79	2.16	32.87	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.62	-6.38	40	39.99	25.8	0.65	32.82	100	137	P	V
		174.99	29.85	-13.65	43.5	45.45	15.63	1.48	32.71	-	-	P	V
		207.93	31.04	-12.46	43.5	46.13	16.02	1.62	32.73	-	-	P	V
		407.8	30.27	-15.73	46	38.62	22.34	2.16	32.85	-	-	P	V
		432.3	30.45	-15.55	46	38.37	22.79	2.16	32.87	-	-	P	V
		597.5	32.82	-13.18	46	37.93	25.35	2.57	33.03	-	-	P	V
													V
													V
													V
													V
													V
													V
													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	H orizontal or V ertical



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

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

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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”.