



<CDD Modes>

Band 4 - 5725~5850MHz

WIFI 802.11a (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)
802.11a CH 149 5745MHz		5645.6	56.94	-11.36	68.3	43.96	32.19	11.79	31	269	92	P	H
		5695.8	70.02	-32.18	102.2	56.94	32.27	11.82	31.01	269	92	P	H
		5720	78.88	-32.02	110.9	65.75	32.31	11.84	31.02	269	92	P	H
		5724.2	88.23	-32.25	120.48	75.1	32.31	11.84	31.02	269	92	P	H
	*	5740	111.69	-	-	98.54	32.34	11.84	31.03	269	92	P	H
	*	5740	102.29	-	-	89.14	32.34	11.84	31.03	269	92	A	H
													H
													H
		5650	59.83	-8.47	68.3	46.82	32.22	11.79	31	278	102	P	V
		5698.4	66.01	-38.11	104.12	52.93	32.27	11.82	31.01	278	102	P	V
		5720	77.67	-33.23	110.9	64.54	32.31	11.84	31.02	278	102	P	V
		5725	87.46	-34.84	122.3	74.33	32.31	11.84	31.02	278	102	P	V
	*	5745	110.17	-	-	97	32.34	11.86	31.03	278	102	P	V
	*	5745	100.51	-	-	87.34	32.34	11.86	31.03	278	102	A	V
													V
													V



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)
802.11a CH 157 5785MHz		5645.6	59.78	-8.52	68.3	46.8	32.19	11.79	31	100	102	P	H
		5692.2	59.83	-39.72	99.55	46.75	32.27	11.82	31.01	100	102	P	H
		5714.6	60.24	-49.15	109.39	47.13	32.29	11.84	31.02	100	102	P	H
		5725	61.52	-60.78	122.3	48.39	32.31	11.84	31.02	100	102	P	H
	*	5783	109.99	-	-	96.77	32.39	11.88	31.05	100	102	P	H
	*	5783	100.66	-	-	87.44	32.39	11.88	31.05	100	102	A	H
		5851.4	60.34	-58.77	119.11	46.89	32.48	12.03	31.06	100	102	P	H
		5874.2	60.15	-45.37	105.52	46.52	32.53	12.17	31.07	100	102	P	H
		5908.8	60.82	-19.43	80.25	47.02	32.58	12.31	31.09	100	102	P	H
		5931.4	60.25	-8.05	68.3	46.43	32.6	12.31	31.09	100	102	P	H
													H
													H
		5638.8	59.17	-9.13	68.3	46.19	32.19	11.79	31	248	107	P	V
		5653.2	59.28	-11.4	70.68	46.27	32.22	11.79	31	248	107	P	V
		5706.2	59.54	-47.5	107.04	46.43	32.29	11.84	31.02	248	107	P	V
		5724.6	59.67	-61.72	121.39	46.54	32.31	11.84	31.02	248	107	P	V
	*	5783	107.71	-	-	94.49	32.39	11.88	31.05	248	107	P	V
	*	5783	97.88	-	-	84.66	32.39	11.88	31.05	248	107	A	V
		5852	59.6	-58.14	117.74	46.15	32.48	12.03	31.06	248	107	P	V
		5863.2	59.79	-48.81	108.6	46.18	32.51	12.17	31.07	248	107	P	V
		5876	60.38	-44.18	104.56	46.75	32.53	12.17	31.07	248	107	P	V
		5933.2	60.36	-7.94	68.3	46.54	32.6	12.31	31.09	248	107	P	V
													V
													V



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)
802.11a CH 165 5825MHz	*	5825	111.18	-	-	97.74	32.46	12.03	31.05	258	93	P	H
	*	5825	101.36	-	-	87.92	32.46	12.03	31.05	258	93	A	H
		5850	78.88	-43.42	122.3	65.43	32.48	12.03	31.06	258	93	P	H
		5857	73.9	-36.44	110.34	60.42	32.51	12.03	31.06	258	93	P	H
		5877	65.48	-38.33	103.81	51.85	32.53	12.17	31.07	258	93	P	H
		5935.8	60.47	-7.83	68.3	46.65	32.6	12.31	31.09	258	93	P	H
													H
													H
	*	5825	110.37	-	-	96.93	32.46	12.03	31.05	263	103	P	V
	*	5825	99.61	-	-	86.17	32.46	12.03	31.05	263	103	A	V
		5851	76.49	-43.53	120.02	63.04	32.48	12.03	31.06	263	103	P	V
		5856.2	72.62	-37.94	110.56	59.14	32.51	12.03	31.06	263	103	P	V
		5877.4	65.85	-37.67	103.52	52.22	32.53	12.17	31.07	263	103	P	V
		5932.8	61.19	-7.11	68.3	47.37	32.6	12.31	31.09	263	103	P	V
													V
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													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. 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)
802.11a CH 149 5745MHz		11490	47.52	-26.48	74	46.79	40.11	18.4	57.78	100	0	P	H
		17235	60.29	-8.01	68.3	52.64	41.65	23.14	57.14	100	0	P	H
													H
													H
		11490	47.78	-26.22	74	47.05	40.11	18.4	57.78	100	0	P	V
		17235	59.65	-8.65	68.3	52	41.65	23.14	57.14	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	48.46	-25.54	74	47.82	39.95	18.49	57.8	100	0	P	H
		17355	58.21	-10.09	68.3	50.5	42.02	23.25	57.56	100	0	P	H
													H
													H
		11570	48.5	-25.5	74	47.86	39.95	18.49	57.8	100	0	P	V
		17355	57.94	-10.36	68.3	50.23	42.02	23.25	57.56	100	0	P	V
													V
													V
802.11a CH 165 5825MHz		11650	47.09	-26.91	74	46.51	39.8	18.58	57.8	100	0	P	H
		17475	54.49	-13.81	68.3	46.72	42.39	23.36	57.98	100	0	P	H
													H
													H
		11650	47.15	-26.85	74	46.57	39.8	18.58	57.8	100	0	P	V
		17475	58.01	-10.29	68.3	50.24	42.39	23.36	57.98	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

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11a LF		68.07	25.91	-14.09	40	45.1	12.2	1.06	32.45	-	-	P	H
		201.45	24.56	-18.94	43.5	39.42	15.85	1.7	32.41	-	-	P	H
		237.36	26.83	-19.17	46	39.92	17.42	1.83	32.34	-	-	P	H
		340.6	25.19	-20.81	46	34.33	20.71	2.44	32.29	-	-	P	H
		765.5	29.45	-16.55	46	30.09	27.66	3.97	32.27	-	-	P	H
		955.2	33.19	-12.81	46	29.3	30.23	4.75	31.09	100	66	P	H
													H
													H
													H
													H
													H
													H
		32.43	34.79	-5.21	40	42.29	24.18	0.78	32.46	100	80	P	V
		66.72	26.08	-13.92	40	45.32	12.15	1.06	32.45	-	-	P	V
		201.18	27	-16.5	43.5	41.88	15.83	1.7	32.41	-	-	P	V
		363.7	25.73	-20.27	46	34.28	21.33	2.44	32.32	-	-	P	V
		724.2	29.13	-16.87	46	30.61	26.99	3.89	32.36	-	-	P	V
		934.9	33.56	-12.44	46	30.33	29.89	4.6	31.26	-	-	P	V
													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	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
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. 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”.