



Appendix B. Radiated Spurious Emission

15E Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5714.68	71.92	-2.08	74	58.59	35.22	12.26	34.15	225	235	P	H
		5723.56	77.24	-1.06	78.3	63.9	35.23	12.26	34.15	225	235	P	H
		5713.16	50.26	-3.74	54	36.93	35.22	12.26	34.15	225	235	A	H
	*	5743	110.08	-	-	96.68	35.24	12.33	34.17	225	235	P	H
	*	5743	100.22	-	-	86.82	35.24	12.33	34.17	225	235	A	H
													H
													H
													H
		5712.76	68.15	-5.85	74	54.82	35.22	12.26	34.15	194	169	P	V
		5723.64	74.98	-3.32	78.3	61.64	35.23	12.26	34.15	194	169	P	V
		5714.36	49.14	-4.86	54	35.81	35.22	12.26	34.15	194	169	A	V
	*	5744	108.12	-	-	94.72	35.24	12.33	34.17	194	169	P	V
	*	5744	98.5	-	-	85.1	35.24	12.33	34.17	194	169	A	V
													V
													V
													V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 157 5785MHz		5713.16	64.54	-9.46	74	51.21	35.22	12.26	34.15	236	233	P	H
		5724.28	68.91	-9.39	78.3	55.57	35.23	12.26	34.15	236	233	P	H
		5714.44	48.76	-5.24	54	35.43	35.22	12.26	34.15	236	233	A	H
	*	5784	113.76	-	-	100.32	35.27	12.4	34.23	236	233	P	H
	*	5784	104.07	-	-	90.63	35.27	12.4	34.23	236	233	A	H
		5850.08	60.55	-17.75	78.3	47.1	35.31	12.45	34.31	236	233	P	H
		5861.12	61.08	-12.92	74	47.62	35.32	12.49	34.35	236	233	P	H
		5864.64	45.76	-8.24	54	32.3	35.32	12.49	34.35	236	233	A	H
		5711.72	62.26	-11.74	74	48.93	35.22	12.26	34.15	194	167	P	V
		5724.12	67.94	-10.36	78.3	54.6	35.23	12.26	34.15	194	167	P	V
		5714.84	47.64	-6.36	54	34.31	35.22	12.26	34.15	194	167	A	V
	*	5783	112.34	-	-	98.9	35.27	12.4	34.23	194	167	P	V
	*	5783	102.95	-	-	89.51	35.27	12.4	34.23	194	167	A	V
		5859.6	62.33	-15.97	78.3	48.91	35.32	12.45	34.35	194	167	P	V
		5860.24	61.18	-12.82	74	47.72	35.32	12.49	34.35	194	167	P	V
		5861.6	46.41	-7.59	54	32.95	35.32	12.49	34.35	194	167	A	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 165 5825MHz	*	5825	112.61	-	-	99.13	35.3	12.45	34.27	227	233	P	H
	*	5825	102.69	-	-	89.21	35.3	12.45	34.27	227	233	A	H
		5850.96	74.85	-3.45	78.3	61.4	35.31	12.45	34.31	227	233	P	H
		5862.8	69.52	-4.48	74	56.06	35.32	12.49	34.35	227	233	P	H
		5860	52.04	-1.96	54	38.62	35.32	12.45	34.35	227	233	A	H
													H
													H
													H
	*	5825	112.2	-	-	98.72	35.3	12.45	34.27	210	166	P	V
	*	5825	102.52	-	-	89.04	35.3	12.45	34.27	210	166	A	V
		5851.12	75.04	-3.26	78.3	61.59	35.31	12.45	34.31	210	166	P	V
		5863.36	70.47	-3.53	74	57.01	35.32	12.49	34.35	210	166	P	V
		5860.24	52.61	-1.39	54	39.15	35.32	12.49	34.35	210	166	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		11490	48.93	-25.07	74	50.33	38.19	17.38	56.97	100	0	P	H
		17232	49.94	-24.06	74	42.54	42.21	21.38	56.19	100	0	P	H
													H
													H
		11490	45.23	-28.77	74	46.63	38.19	17.38	56.97	100	0	P	V
		17232	50.05	-23.95	74	42.65	42.21	21.38	56.19	100	0	P	V
													V
													V
802.11a CH 157 5785MHz		11570	60.77	-13.23	74	61.79	38.3	17.46	56.78	225	295	P	H
		11570	45.17	-8.83	54	46.19	38.3	17.46	56.78	225	295	A	H
		17355	58.6	-15.4	74	51.25	42.12	21.45	56.22	200	297	P	H
		17355	44.08	-9.92	54	36.73	42.12	21.45	56.22	200	297	A	H
		11570	59.82	-14.18	74	60.84	38.3	17.46	56.78	200	288	P	V
		11570	45.22	-8.78	54	46.24	38.3	17.46	56.78	200	288	A	V
		17355	63.14	-10.86	74	55.79	42.12	21.45	56.22	200	277	P	V
		17355	46.89	-7.11	54	39.54	42.12	21.45	56.22	200	277	A	V
802.11a CH 165 5825MHz		11650	59.55	-14.45	74	60.24	38.39	17.53	56.61	295	306	P	H
		11650	43.62	-10.38	54	44.31	38.39	17.53	56.61	295	306	A	H
		17475	57.85	-16.15	74	50.54	42.03	21.53	56.25	205	297	P	H
		17475	42.91	-11.09	54	35.6	42.03	21.53	56.25	205	297	A	H
		11650	60.28	-13.72	74	60.97	38.39	17.53	56.61	200	303	P	V
		11650	44.73	-9.27	54	45.42	38.39	17.53	56.61	200	303	A	V
		17475	59.83	-14.17	74	52.52	42.03	21.53	56.25	200	280	P	V
		17475	45.09	-8.91	54	37.78	42.03	21.53	56.25	200	280	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**15E Band 4 5725~5850MHz****WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		5714.6	72.53	-1.47	74	59.2	35.22	12.26	34.15	225	235	P	H
		5724.92	77.65	-0.65	78.3	64.31	35.23	12.26	34.15	225	235	P	H
		5713.48	48.96	-5.04	54	35.63	35.22	12.26	34.15	225	235	A	H
	*	5745	108.31	-	-	94.91	35.24	12.33	34.17	225	235	P	H
	*	5745	98.57	-	-	85.17	35.24	12.33	34.17	225	235	A	H
													H
													H
													H
		5713.64	71.38	-2.62	74	58.05	35.22	12.26	34.15	194	169	P	V
		5724.2	76.54	-1.76	78.3	63.2	35.23	12.26	34.15	194	169	P	V
		5713.56	48.21	-5.79	54	34.88	35.22	12.26	34.15	194	169	A	V
	*	5747	106.93	-	-	93.53	35.24	12.33	34.17	194	169	P	V
	*	5747	97.45	-	-	84.05	35.24	12.33	34.17	194	169	A	V
													V
													V
													V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 157 5785MHz		5713	65.92	-8.08	74	52.59	35.22	12.26	34.15	236	233	P	H
		5724.2	66.29	-12.01	78.3	52.95	35.23	12.26	34.15	236	233	P	H
		5714.92	47.54	-6.46	54	34.21	35.22	12.26	34.15	236	233	A	H
	*	5783	112.13	-	-	98.69	35.27	12.4	34.23	236	233	P	H
	*	5783	102.69	-	-	89.25	35.27	12.4	34.23	236	233	A	H
		5855.44	60.57	-17.73	78.3	47.11	35.32	12.45	34.31	236	233	P	H
		5867.12	58.57	-15.43	74	45.11	35.32	12.49	34.35	236	233	P	H
		5860.32	45.68	-8.32	54	32.22	35.32	12.49	34.35	236	233	A	H
		5714.12	62.35	-11.65	74	49.02	35.22	12.26	34.15	194	167	P	V
		5723.48	64.66	-13.64	78.3	51.32	35.23	12.26	34.15	194	167	P	V
		5714.04	46.91	-7.09	54	33.58	35.22	12.26	34.15	194	167	A	V
	*	5785	110.88	-	-	97.44	35.27	12.4	34.23	194	167	P	V
	*	5785	101.35	-	-	87.91	35.27	12.4	34.23	194	167	A	V
		5851.76	62.75	-15.55	78.3	49.3	35.31	12.45	34.31	194	167	P	V
		5866.88	59.53	-14.47	74	46.07	35.32	12.49	34.35	194	167	P	V
		5862.16	45.67	-8.33	54	32.21	35.32	12.49	34.35	194	167	A	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 165 5825MHz	*	5824	112.46	-	-	98.98	35.3	12.45	34.27	227	233	P	H
	*	5824	103.12	-	-	89.64	35.3	12.45	34.27	227	233	A	H
		5850.56	75.89	-2.41	78.3	62.44	35.31	12.45	34.31	227	233	P	H
		5862.72	72.29	-1.71	74	58.83	35.32	12.49	34.35	227	233	P	H
		5860.24	53.52	-0.48	54	40.06	35.32	12.49	34.35	227	233	A	H
													H
													H
													H
	*	5822	111.11	-	-	97.63	35.3	12.45	34.27	210	166	P	V
	*	5822	101.39	-	-	87.91	35.3	12.45	34.27	210	166	A	V
		5852.72	76.5	-1.8	78.3	63.05	35.31	12.45	34.31	210	166	P	V
		5860.88	71.73	-2.27	74	58.27	35.32	12.49	34.35	210	166	P	V
		5860	53.67	-0.33	54	40.25	35.32	12.45	34.35	210	166	A	V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 149 5745MHz		11490	47.78	-26.22	74	49.18	38.19	17.38	56.97	100	0	P	H
		17235	49.15	-24.85	74	41.75	42.21	21.38	56.19	100	0	P	H
													H
													H
		11490	46.26	-27.74	74	47.66	38.19	17.38	56.97	100	0	P	V
		17235	50.29	-23.71	74	42.89	42.21	21.38	56.19	100	0	P	V
													V
													V
802.11n HT20 CH 157 5785MHz		11570	60.81	-13.19	74	61.83	38.3	17.46	56.78	225	292	P	H
		11570	46.17	-7.83	54	47.19	38.3	17.46	56.78	225	292	A	H
		17355	57.52	-16.48	74	50.17	42.12	21.45	56.22	200	295	P	H
		17355	43.7	-10.3	54	36.35	42.12	21.45	56.22	200	295	A	H
		11570	60.49	-13.51	74	61.51	38.3	17.46	56.78	201	296	P	V
		11570	45.79	-8.21	54	46.81	38.3	17.46	56.78	201	296	A	V
		17355	60.16	-13.84	74	52.81	42.12	21.45	56.22	198	279	P	V
		17355	47.36	-6.64	54	40.01	42.12	21.45	56.22	198	279	A	V
802.11n HT20 CH 165 5825MHz		11650	60.16	-13.84	74	60.85	38.39	17.53	56.61	292	302	P	H
		11650	44.54	-9.46	54	45.23	38.39	17.53	56.61	292	302	A	H
		17475	57.27	-16.73	74	49.96	42.03	21.53	56.25	208	299	P	H
		17475	42.19	-11.81	54	34.88	42.03	21.53	56.25	208	299	A	H
		11650	59.14	-14.86	74	59.83	38.39	17.53	56.61	201	300	P	V
		11650	44.08	-9.92	54	44.77	38.39	17.53	56.61	201	300	A	V
		17476	60.15	-13.85	74	52.84	42.03	21.53	56.25	200	275	P	V
		17476	45.36	-8.64	54	38.05	42.03	21.53	56.25	200	275	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**15E Band 4 5725~5850MHz****WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		5710.12	73.52	-0.48	74	60.19	35.22	12.26	34.15	230	235	P	H
		5717.64	77.08	-1.22	78.3	63.74	35.23	12.26	34.15	230	235	P	H
		5714.92	51.71	-2.29	54	38.38	35.22	12.26	34.15	230	235	A	H
	*	5755	104.32	-	-	90.9	35.26	12.33	34.17	230	235	P	H
	*	5755	94.97	-	-	81.55	35.26	12.33	34.17	230	235	A	H
		5850.4	57.56	-20.74	78.3	44.11	35.31	12.45	34.31	230	235	P	H
		5866.4	57.96	-16.04	74	44.5	35.32	12.49	34.35	230	235	P	H
		5860.88	44.98	-9.02	54	31.52	35.32	12.49	34.35	230	235	A	H
		5712.12	72.32	-1.68	74	58.99	35.22	12.26	34.15	203	167	P	V
		5718.68	76.12	-2.18	78.3	62.78	35.23	12.26	34.15	203	167	P	V
		5713.16	50.61	-3.39	54	37.28	35.22	12.26	34.15	203	167	A	V
	*	5753	103.1	-	-	89.68	35.26	12.33	34.17	203	167	P	V
	*	5753	93.54	-	-	80.12	35.26	12.33	34.17	203	167	A	V
		5854.96	57.67	-20.63	78.3	44.21	35.32	12.45	34.31	203	167	P	V
		5865.92	58.06	-15.94	74	44.6	35.32	12.49	34.35	203	167	P	V
		5883.92	45.12	-8.88	54	31.69	35.33	12.49	34.39	203	167	A	V



WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 159 5795MHz		5710.76	68.14	-5.86	74	54.81	35.22	12.26	34.15	223	234	P	H
		5724.12	68.37	-9.93	78.3	55.03	35.23	12.26	34.15	223	234	P	H
		5714.92	52.48	-1.52	54	39.15	35.22	12.26	34.15	223	234	A	H
	*	5795	108.64	-	-	95.19	35.28	12.4	34.23	223	234	P	H
	*	5795	99.05	-	-	85.6	35.28	12.4	34.23	223	234	A	H
		5850.08	71.37	-6.93	78.3	57.92	35.31	12.45	34.31	223	234	P	H
		5863.28	70.47	-3.53	74	57.01	35.32	12.49	34.35	223	234	P	H
		5861.92	51.23	-2.77	54	37.77	35.32	12.49	34.35	223	234	A	H
		5709.88	66.48	-7.52	74	53.15	35.22	12.26	34.15	203	167	P	V
		5715.72	67.87	-10.43	78.3	54.54	35.22	12.26	34.15	203	167	P	V
		5714.44	51.34	-2.66	54	38.01	35.22	12.26	34.15	203	167	A	V
	*	5798	107.53	-	-	94.08	35.28	12.4	34.23	203	167	P	V
	*	5798	98.35	-	-	84.9	35.28	12.4	34.23	203	167	A	V
		5850.56	72.05	-6.25	78.3	58.6	35.31	12.45	34.31	203	167	P	V
		5863.28	70.54	-3.46	74	57.08	35.32	12.49	34.35	203	167	P	V
		5860.96	51.51	-2.49	54	38.05	35.32	12.49	34.35	203	167	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 151 5755MHz		11510	44.2	-29.8	74	45.53	38.2	17.42	56.95	100	0	P	H
		17265	48.5	-25.5	74	41.11	42.19	21.4	56.2	100	0	P	H
													H
													H
		11510	44.09	-29.91	74	45.42	38.2	17.42	56.95	100	0	P	V
		17265	49.07	-24.93	74	41.68	42.19	21.4	56.2	100	0	P	V
													V
													V
802.11n HT40 CH 159 5795MHz		11590	47.61	-26.39	74	48.53	38.32	17.5	56.74	100	0	P	H
		17388	54.37	-19.63	74	47.03	42.09	21.48	56.23	281	298	P	H
		17388	40.38	-13.62	54	33.04	42.09	21.48	56.23	281	298	A	H
													H
		11590	49.68	-24.32	74	50.6	38.32	17.5	56.74	100	0	P	V
		17388	55.52	-18.48	74	48.18	42.09	21.48	56.23	219	269	P	V
		17388	41.76	-12.24	54	34.42	42.09	21.48	56.23	219	269	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		5697.8	72.53	-1.47	74	59.26	35.21	12.18	34.12	228	232	P	H
		5715.32	76.02	-2.28	78.3	62.69	35.22	12.26	34.15	228	232	P	H
		5713.96	51.87	-2.13	54	38.54	35.22	12.26	34.15	228	232	A	H
	*	5772	103.2	-	-	89.8	35.27	12.33	34.2	228	232	P	H
	*	5772	93.52	-	-	80.12	35.27	12.33	34.2	228	232	A	H
		5852.56	67.57	-10.73	78.3	54.12	35.31	12.45	34.31	228	232	P	H
		5861.2	65.49	-8.51	74	52.03	35.32	12.49	34.35	228	232	P	H
		5866.08	49.87	-4.13	54	36.41	35.32	12.49	34.35	228	232	A	H
		5710.44	70.17	-3.83	74	56.84	35.22	12.26	34.15	147	141	P	V
		5720.12	75.07	-3.23	78.3	61.73	35.23	12.26	34.15	147	141	P	V
		5710.6	50.78	-3.22	54	37.45	35.22	12.26	34.15	147	141	A	V
	*	5772	100.99	-	-	87.59	35.27	12.33	34.2	147	141	P	V
	*	5772	91.56	-	-	78.16	35.27	12.33	34.2	147	141	A	V
		5850.96	66.26	-12.04	78.3	52.81	35.31	12.45	34.31	147	141	P	V
		5860.16	65.31	-8.69	74	51.85	35.32	12.49	34.35	147	141	P	V
		5861.84	49.55	-4.45	54	36.09	35.32	12.49	34.35	147	141	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**15E Band 4 5725~5850MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz		11550	44.71	-29.29	74	45.8	38.27	17.46	56.82	100	0	P	H
		17328	48.65	-25.35	74	41.28	42.15	21.43	56.21	100	0	P	H
													H
													H
		11550	45.7	-28.3	74	46.79	38.27	17.46	56.82	100	0	P	V
		17328	49.68	-24.32	74	42.31	42.15	21.43	56.21	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Emission below 1GHz

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11n HT20 LF		74.28	27.34	-12.66	40	49.68	6.8	2.06	31.2	116	213	P	H
		146.91	27.64	-15.86	43.5	44.91	11.22	2.61	31.1			P	H
		250.05	23.06	-22.94	46	38.7	12.4	2.96	31			P	H
		435.8	26.8	-19.2	46	36.94	16.95	3.63	30.72			P	H
		624.8	19.19	-26.81	46	25.23	20.29	4.22	30.55			P	H
		800.5	30.64	-15.36	46	34.32	22	4.62	30.3			P	H
													H
													H
													H
													H
													H
													H
		74.01	31.42	-8.58	40	53.86	6.72	2.06	31.22	130	174	P	V
		145.56	28.16	-15.34	43.5	45.15	11.5	2.61	31.1			P	V
		237.9	22.31	-23.69	46	39.29	11.06	2.96	31			P	V
		447	30.86	-15.14	46	40.76	17.21	3.63	30.74			P	V
		624.8	21.47	-24.53	46	27.51	20.29	4.22	30.55			P	V
		799.8	26.79	-19.21	46	30.47	22	4.62	30.3			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 per 15.209(c).
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		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”.