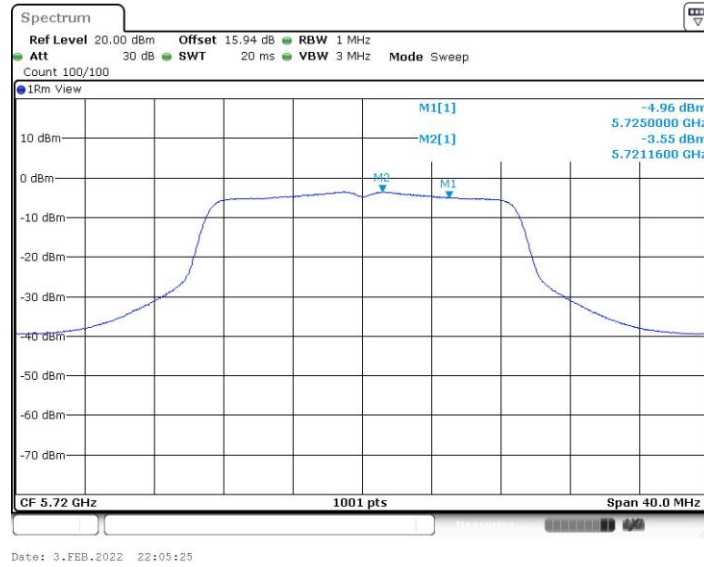
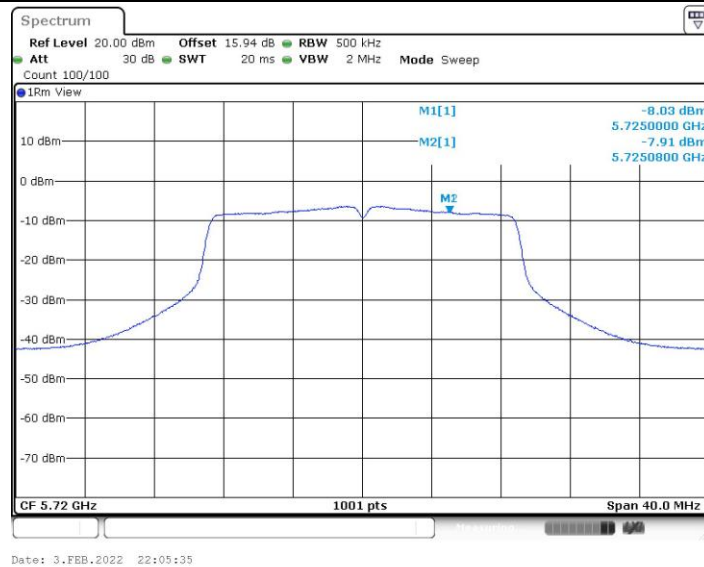




11N20SISO_Ant1_5720_UNII-2C

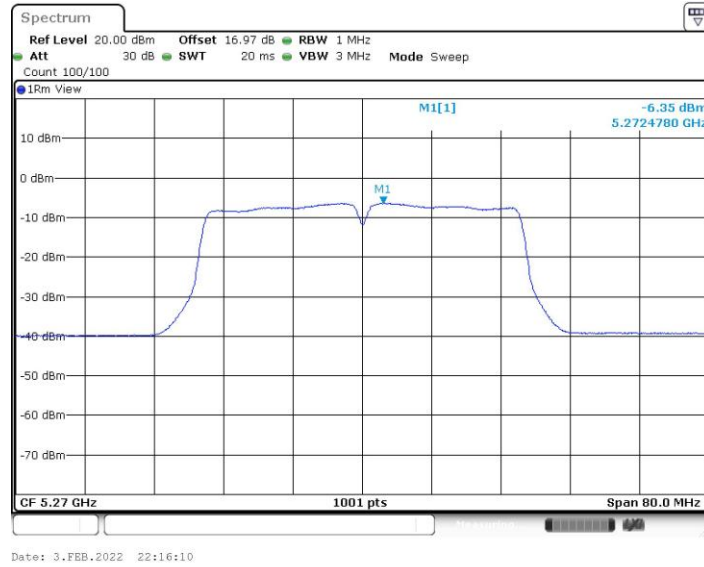


11N20SISO_Ant1_5720_UNII-3

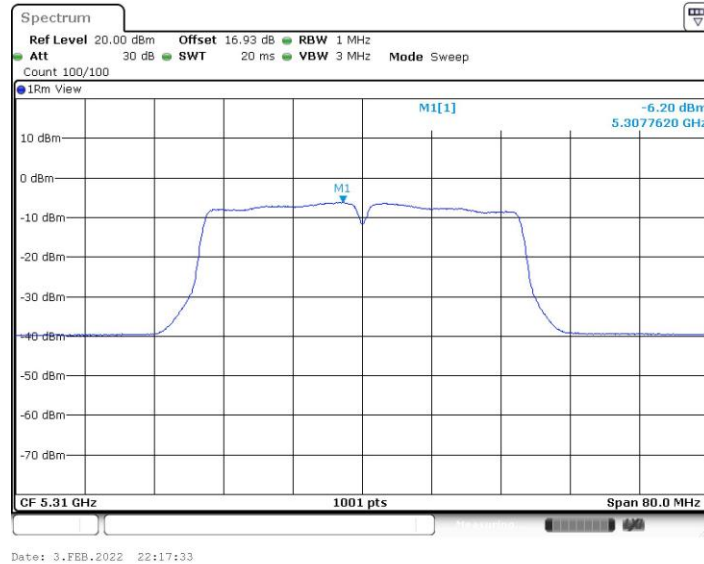




11N40SISO_Ant1_5270

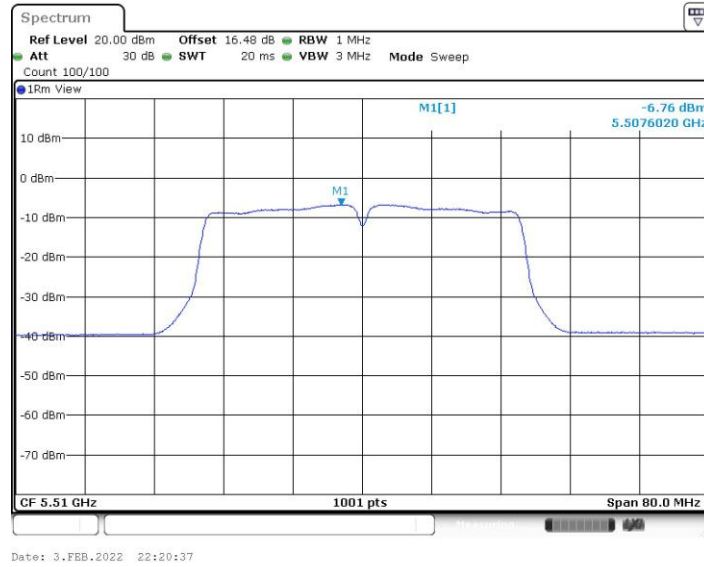


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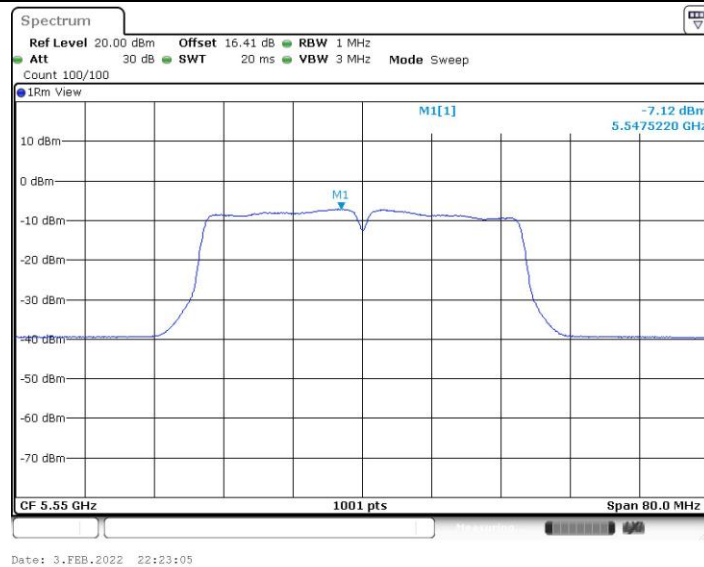




11N40SISO_Ant1_5510

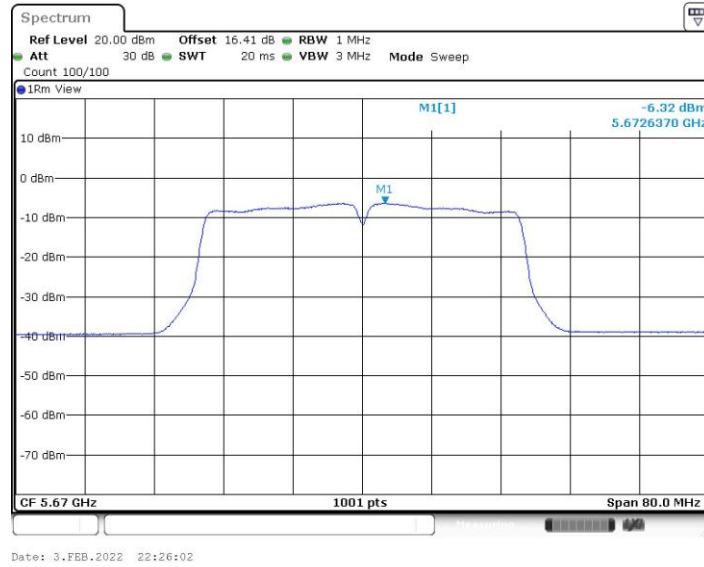


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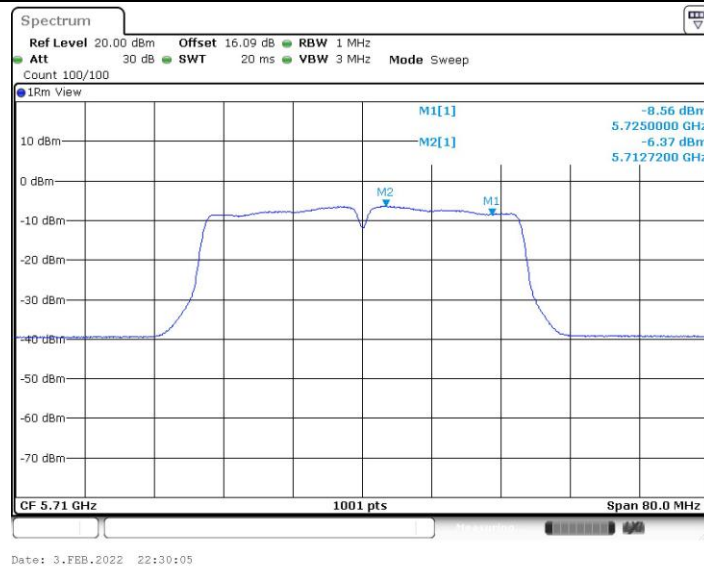




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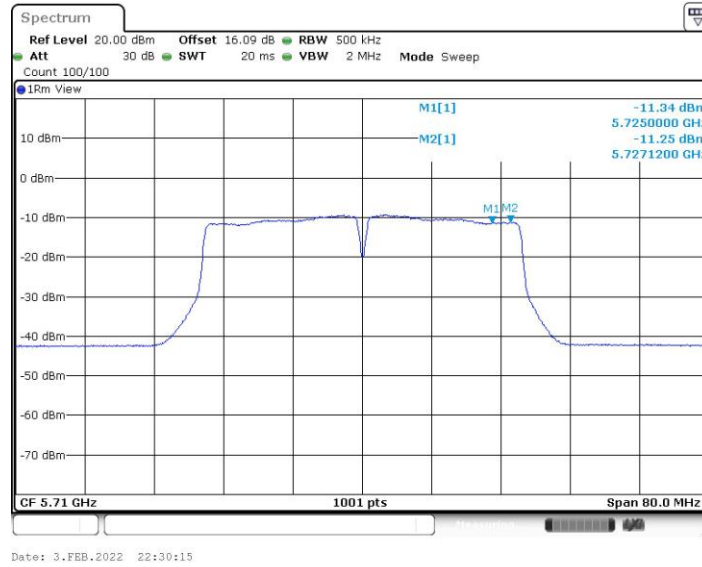


11N40SISO_Ant1_5710_UNII-2C

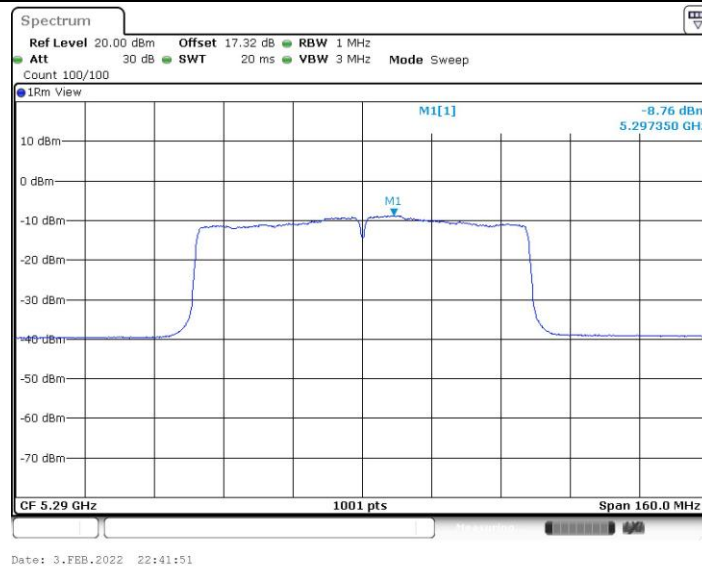




11N40SISO_Ant1_5710_UNII-3

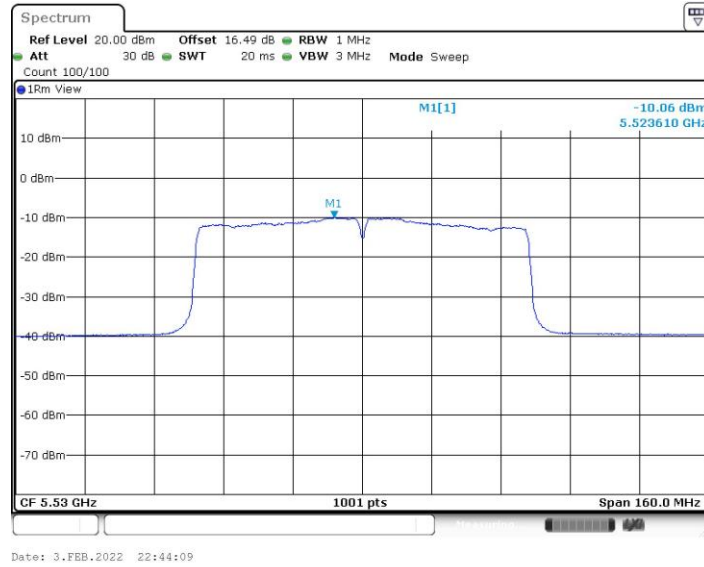


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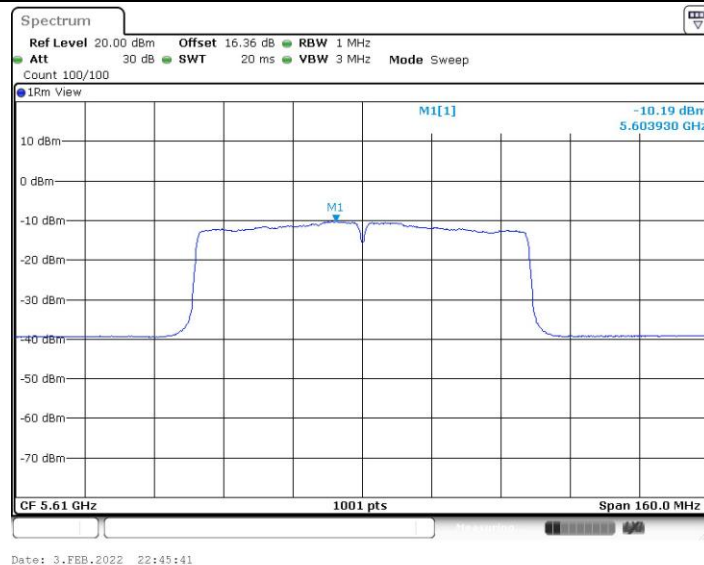


11AC80SISO_Ant1_5530



Date: 3.FEB.2022 22:44:09

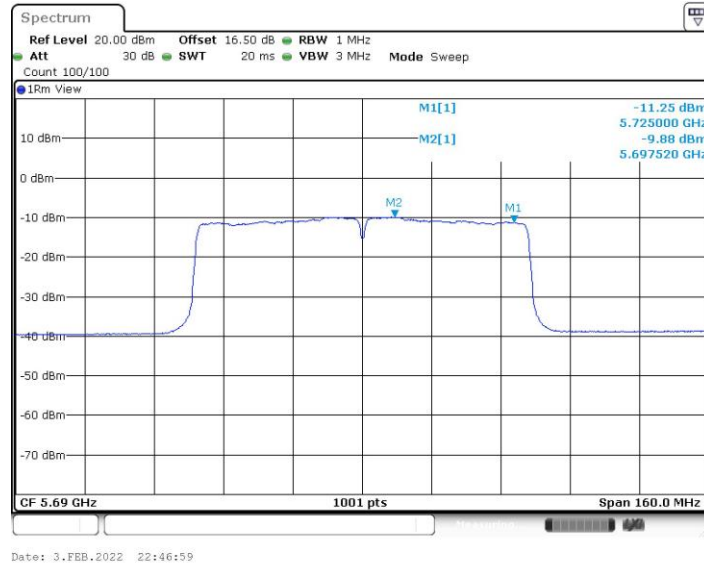
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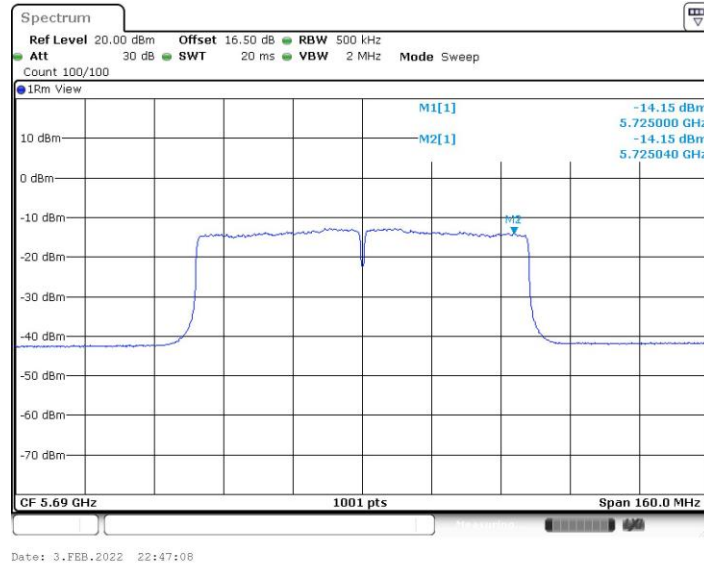
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11AC80SISO_Ant1_5690_UNII-2C



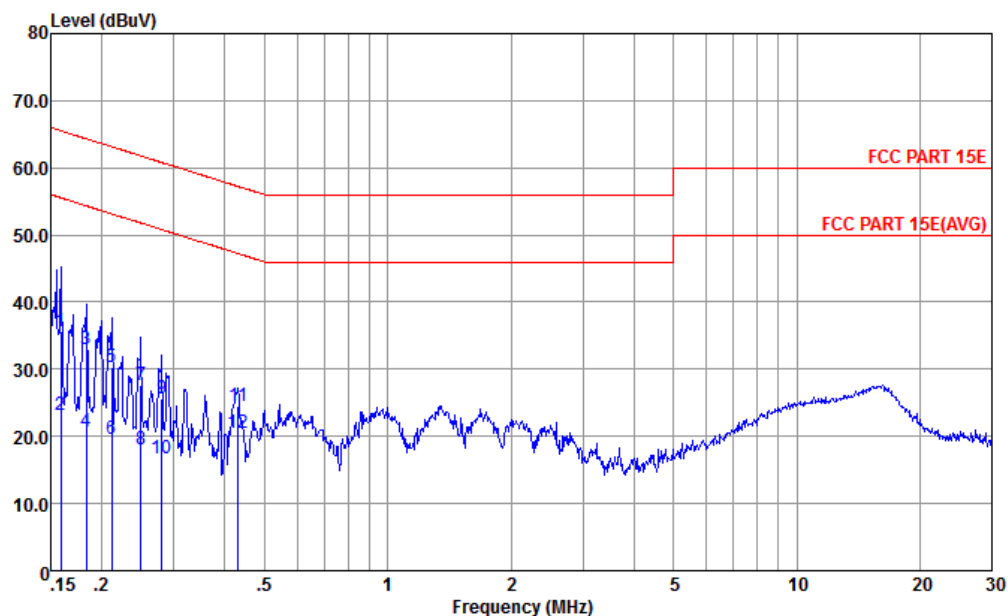
11AC80SISO_Ant1_5690_UNII-3





Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

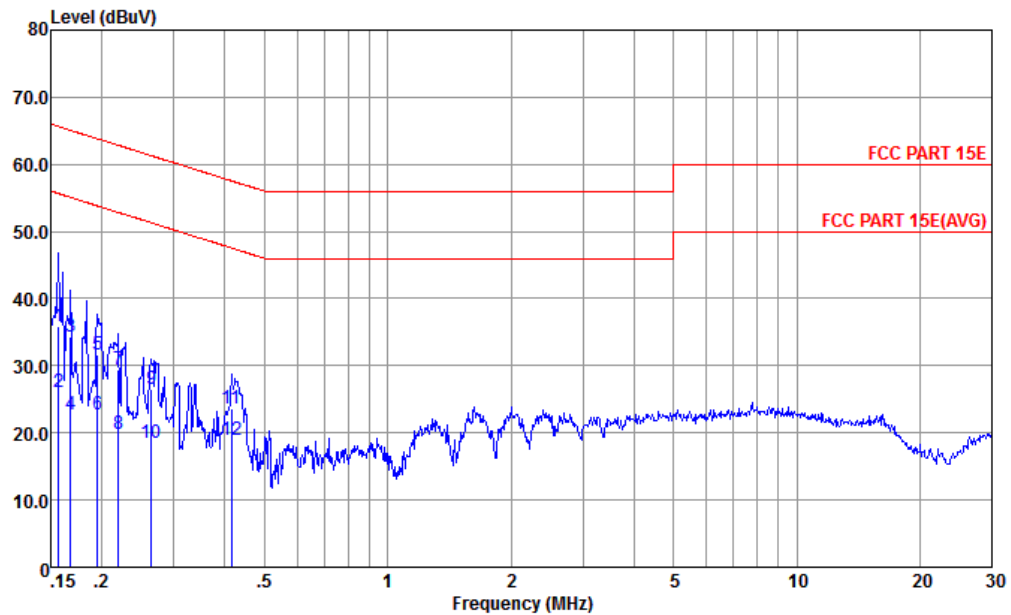


Site : CO01-KS
Condition : FCC PART 15E LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.159	35.68	-29.84	65.52	25.20	0.02	10.46	QP
2	0.159	23.08	-32.44	55.52	12.60	0.02	10.46	Average
3	0.183	32.93	-31.40	64.33	22.50	0.03	10.40	QP
4	0.183	20.73	-33.60	54.33	10.30	0.03	10.40	Average
5	0.212	30.30	-32.84	63.14	19.90	0.04	10.36	QP
6	0.212	19.60	-33.54	53.14	9.20	0.04	10.36	Average
7	0.249	27.59	-34.19	61.78	17.20	0.06	10.33	QP
8	0.249	17.99	-33.79	51.78	7.60	0.06	10.33	Average
9	0.280	25.58	-35.23	60.81	15.19	0.07	10.32	QP
10	0.280	16.68	-34.13	50.81	6.29	0.07	10.32	Average
11	0.431	24.55	-32.69	57.24	14.20	0.09	10.26	QP
12 *	0.431	20.55	-26.69	47.24	10.20	0.09	10.26	Average



Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
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 LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.156	35.77	-29.88	65.65	25.20	0.11	10.46	QP
2	0.156	26.17	-29.48	55.65	15.60	0.11	10.46	Average
3	0.168	34.34	-30.74	65.08	23.80	0.11	10.43	QP
4	0.168	22.74	-32.34	55.08	12.20	0.11	10.43	Average
5	0.195	31.68	-32.12	63.80	21.21	0.10	10.37	QP
6	0.195	22.68	-31.12	53.80	12.21	0.10	10.37	Average
7	0.220	29.35	-33.48	62.83	18.90	0.10	10.35	QP
8	0.220	19.75	-33.08	52.83	9.30	0.10	10.35	Average
9	0.264	26.62	-34.67	61.29	16.20	0.10	10.32	QP
10	0.264	18.52	-32.77	51.29	8.10	0.10	10.32	Average
11	0.415	23.67	-33.88	57.55	13.30	0.11	10.26	QP
12 *	0.415	18.97	-28.58	47.55	8.60	0.11	10.26	Average

Note:

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



Appendix C. Radiated Spurious Emission

Sample 1- UNII-2A - 5250~5350MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		5128.32	58.21	-15.79	74	42.51	34.37	10.61	29.28	100	248	P	H
		5145.76	47.97	-6.03	54	32.26	34.4	10.62	29.31	100	248	A	H
	*	5260	104.73	-	-	88.93	34.5	10.72	29.42	100	248	P	H
		5260	97.63	-	-	81.83	34.5	10.72	29.42	100	248	A	H
		5113.6	58.47	-15.53	74	42.79	34.33	10.61	29.26	100	273	P	V
		5120.96	48	-6	54	32.34	34.33	10.61	29.28	100	273	A	V
	*	5260	98.32	-	-	82.52	34.5	10.72	29.42	100	273	P	V
		5260	91.14	-	-	75.34	34.5	10.72	29.42	100	273	A	V
802.11a CH 60 5300MHz		5125.28	57.86	-16.14	74	42.16	34.37	10.61	29.28	100	242	P	H
		5113.76	47.97	-6.03	54	32.29	34.33	10.61	29.26	100	242	A	H
	*	5302	103.42	-	-	87.62	34.5	10.77	29.47	100	242	P	H
		5302	96.69	-	-	80.89	34.5	10.77	29.47	100	242	A	H
		5354.1	56.4	-17.6	74	40.59	34.5	10.83	29.52	100	242	P	H
		5368.4	46.77	-7.23	54	30.94	34.5	10.85	29.52	100	242	A	H
		5128.96	57.52	-16.48	74	41.82	34.37	10.61	29.28	100	275	P	V
		5116.16	47.99	-6.01	54	32.31	34.33	10.61	29.26	100	275	A	V
	*	5296	98.55	-	-	82.72	34.5	10.77	29.44	100	275	P	V
		5296	91.21	-	-	75.38	34.5	10.77	29.44	100	275	A	V
		5355.7	55.99	-18.01	74	40.18	34.5	10.83	29.52	100	275	P	V
		5356.6	46.35	-7.65	54	30.54	34.5	10.83	29.52	100	275	A	V



802.11a CH 64 5320MHz		5356.7	58.06	-15.94	74	42.25	34.5	10.83	29.52	100	243	P	H
		5355	47.63	-6.37	54	31.82	34.5	10.83	29.52	100	243	A	H
	*	5320	104.15	-	-	88.33	34.5	10.79	29.47	100	243	P	H
		5320	96.94	-	-	81.12	34.5	10.79	29.47	100	243	A	H
		5365.4	56.63	-17.37	74	40.8	34.5	10.85	29.52	115	159	P	V
		5358.4	46.77	-7.23	54	30.96	34.5	10.83	29.52	115	159	A	V
	*	5320	99.93	-	-	84.11	34.5	10.79	29.47	115	159	P	V
		5320	92.73	-	-	76.91	34.5	10.79	29.47	115	159	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2A 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		10520	44.68	-23.62	68.3	57.75	37.58	15.64	66.29	300	360	P	H
CH 52		10520	43.67	-24.63	68.3	56.74	37.58	15.64	66.29	100	360	P	V
5260MHz													
802.11a		10600	43.41	-30.59	74	56.24	37.67	15.69	66.19	100	360	P	H
CH 60		10600	44.03	-29.97	74	56.86	37.67	15.69	66.19	300	360	P	V
5300MHz													
802.11a		10640	43.98	-30.02	74	56.71	37.71	15.71	66.15	100	360	P	H
CH 64		10640	44.53	-29.47	74	57.26	37.71	15.71	66.15	300	360	P	V
5320MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2A 5250~5350MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5120	57.83	-16.17	74	42.17	34.33	10.61	29.28	100	247	P	H
		5130.08	47.82	-6.18	54	32.12	34.37	10.61	29.28	100	247	A	H
	*	5260	104.15	-	-	88.35	34.5	10.72	29.42	100	247	P	H
		5260	96.99	-	-	81.19	34.5	10.72	29.42	100	247	A	H
		5100.48	58.74	-15.26	74	43.1	34.3	10.6	29.26	110	156	P	V
		5132.96	47.77	-6.23	54	32.07	34.37	10.61	29.28	110	156	A	V
	*	5260	99.26	-	-	83.46	34.5	10.72	29.42	110	156	P	V
		5260	92.18	-	-	76.38	34.5	10.72	29.42	110	156	A	V
802.11n HT20 CH 60 5300MHz		5134.24	58.35	-15.65	74	42.65	34.37	10.61	29.28	100	249	P	H
		5123.04	48.14	-5.86	54	32.44	34.37	10.61	29.28	100	249	A	H
	*	5302	103.44	-	-	87.64	34.5	10.77	29.47	100	249	P	H
		5302	96.29	-	-	80.49	34.5	10.77	29.47	100	249	A	H
		5356.6	56.87	-17.13	74	41.06	34.5	10.83	29.52	100	249	P	H
		5359.1	46.68	-7.32	54	30.87	34.5	10.83	29.52	100	249	A	H
		5127.2	58.33	-15.67	74	42.63	34.37	10.61	29.28	119	159	P	V
		5120.8	48.04	-5.96	54	32.38	34.33	10.61	29.28	119	159	A	V
	*	5302	99.8	-	-	84	34.5	10.77	29.47	119	159	P	V
		5302	91.81	-	-	76.01	34.5	10.77	29.47	119	159	A	V
		5393.7	56.41	-17.59	74	40.59	34.5	10.87	29.55	119	159	P	V
		5352.6	46.2	-7.8	54	30.39	34.5	10.83	29.52	119	159	A	V



802.11n HT20 CH 64 5320MHz		5350.8	57.48	-16.52	74	41.67	34.5	10.83	29.52	100	245	P	H
		5351	47	-7	54	31.19	34.5	10.83	29.52	100	245	A	H
	*	5320	104.24	-	-	88.42	34.5	10.79	29.47	100	245	P	H
		5320	96.64	-	-	80.82	34.5	10.79	29.47	100	245	A	H
		5357.8	58.68	-15.32	74	42.87	34.5	10.83	29.52	104	154	P	V
		5350.3	46.3	-7.7	54	30.49	34.5	10.83	29.52	104	154	A	V
	*	5320	99.87	-	-	84.05	34.5	10.79	29.47	104	154	P	V
		5320	92.47	-	-	76.65	34.5	10.79	29.47	104	154	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2A 5250~5350MHz
WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		10520	43.52	-24.78	68.3	56.59	37.58	15.64	66.29	100	360	P	H
		10520	43.44	-24.86	68.3	56.51	37.58	15.64	66.29	100	0	P	V
802.11n HT20 CH 60 5300MHz		10600	44.3	-29.7	74	57.13	37.67	15.69	66.19	100	0	P	H
		10600	43.83	-30.17	74	56.66	37.67	15.69	66.19	100	360	P	V
802.11n HT20 CH 64 5320MHz		10640	44.62	-29.38	74	57.35	37.71	15.71	66.15	100	360	P	H
		10640	44.28	-29.72	74	57.01	37.71	15.71	66.15	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2A 5250~5350MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5131.04	58.42	-15.58	74	42.72	34.37	10.61	29.28	100	248	P	H
		5126.56	47.93	-6.07	54	32.23	34.37	10.61	29.28	100	248	A	H
	*	5272	100.65	-	-	84.87	34.5	10.72	29.44	100	248	P	H
		5272	93.37	-	-	77.59	34.5	10.72	29.44	100	248	A	H
		5355.3	57.01	-16.99	74	41.2	34.5	10.83	29.52	100	248	P	H
		5350.9	47.16	-6.84	54	31.35	34.5	10.83	29.52	100	248	A	H
		5124.8	57.63	-16.37	74	41.93	34.37	10.61	29.28	100	153	P	V
		5114.08	47.94	-6.06	54	32.26	34.33	10.61	29.26	100	153	A	V
	*	5266	96.02	-	-	80.22	34.5	10.72	29.42	100	153	P	V
		5266	88.77	-	-	72.97	34.5	10.72	29.42	100	153	A	V
		5396.5	56.39	-17.61	74	40.55	34.5	10.89	29.55	100	153	P	V
		5352.8	46.49	-7.51	54	30.68	34.5	10.83	29.52	100	153	A	V
802.11n HT40 CH 62 5310MHz		5106.4	57.53	-16.47	74	41.85	34.33	10.61	29.26	100	248	P	H
	*	5109.44	47.84	-6.16	54	32.16	34.33	10.61	29.26	100	248	A	H
		5320	100.51	-	-	84.69	34.5	10.79	29.47	100	248	P	H
		5320	93.03	-	-	77.21	34.5	10.79	29.47	100	248	A	H
		5355.4	57.32	-16.68	74	41.51	34.5	10.83	29.52	100	248	P	H
		5351.4	47.16	-6.84	54	31.35	34.5	10.83	29.52	100	248	A	H
		5139.84	58.06	-15.94	74	42.32	34.4	10.62	29.28	100	151	P	V
	*	5118.72	47.88	-6.12	54	32.22	34.33	10.61	29.28	100	151	A	V
		5314	95.58	-	-	79.76	34.5	10.79	29.47	100	151	P	V
		5314	88.6	-	-	72.78	34.5	10.79	29.47	100	151	A	V
		5370.1	56.38	-17.62	74	40.55	34.5	10.85	29.52	100	151	P	V
		5381.4	46.64	-7.36	54	30.82	34.5	10.87	29.55	100	151	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2A 5250~5350MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	44.5	-23.8	68.3	57.52	37.6	15.65	66.27	300	0	P	H
		10540	43.82	-24.48	68.3	56.84	37.6	15.65	66.27	100	0	P	V
802.11n HT40 CH 62 5310MHz		10620	43.54	-30.46	74	56.32	37.69	15.7	66.17	300	360	P	H
		10620	43.94	-30.06	74	56.72	37.69	15.7	66.17	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2A 5250~5350MHz
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)	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		5123.2	57.92	-16.08	74	42.22	34.37	10.61	29.28	100	239	P	H
		5122.4	47.86	-6.14	54	32.2	34.33	10.61	29.28	100	239	A	H
	*	5302	97.51	-	-	81.71	34.5	10.77	29.47	100	239	P	H
		5302	90.03	-	-	74.23	34.5	10.77	29.47	100	239	A	H
		5366.5	57.64	-16.36	74	41.81	34.5	10.85	29.52	100	239	P	H
		5351	48.04	-5.96	54	32.23	34.5	10.83	29.52	100	239	A	H
		5103.84	57.68	-16.32	74	42.04	34.3	10.6	29.26	379	299	P	V
		5114.56	48.06	-5.94	54	32.38	34.33	10.61	29.26	379	299	A	V
	*	5296	94.16	-	-	78.33	34.5	10.77	29.44	379	299	P	V
		5296	86.33	-	-	70.5	34.5	10.77	29.44	379	299	A	V
		5395.86	57.29	-16.71	74	41.45	34.5	10.89	29.55	379	299	P	V
		5359.68	46.55	-7.45	54	30.74	34.5	10.83	29.52	379	299	A	V



Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.
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Sample 1- UNII-2A 5250~5350MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		10580	43.87	-24.43	68.3	56.75	37.65	15.68	66.21	100	360	P	H
VHT80 CH 58 5290MHz		10580	44.07	-24.23	68.3	56.95	37.65	15.68	66.21	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5452.24	57.14	-16.86	74	41.27	34.53	10.97	29.63	100	259	P	H
		5466	56.32	-11.98	68.3	40.43	34.53	10.99	29.63	100	259	P	H
		5451.92	46.91	-7.09	54	31.04	34.53	10.97	29.63	100	259	A	H
	*	5500	104.11	-	-	88.17	34.55	11.04	29.65	100	259	P	H
		5500	96.08	-	-	80.14	34.55	11.04	29.65	100	259	A	H
		5441.52	56.39	-17.61	74	40.53	34.52	10.94	29.6	100	158	P	V
		5468.88	56.03	-12.27	68.3	40.14	34.53	10.99	29.63	100	158	P	V
		5458.16	46.46	-7.54	54	30.59	34.53	10.97	29.63	100	158	A	V
	*	5500	98.58	-	-	82.64	34.55	11.04	29.65	100	158	P	V
		5500	91.98	-	-	76.04	34.55	11.04	29.65	100	158	A	V
802.11a CH 116 5580MHz		5408.08	56.23	-17.77	74	40.41	34.5	10.89	29.57	100	259	P	H
		5466.48	55.7	-12.6	68.3	39.81	34.53	10.99	29.63	100	259	P	H
		5458.32	46.27	-7.73	54	30.4	34.53	10.97	29.63	100	259	A	H



	*	5584	103.41	-	-	87.42	34.59	11.16	29.76	100	259	P	H
		5584	96.35	-	-	80.36	34.59	11.16	29.76	100	259	A	H
		5751.16	58.02	-10.28	68.3	41.57	34.89	11.34	29.78	100	259	P	H
		5450	56.65	-17.35	74	40.78	34.53	10.97	29.63	103	278	P	V
		5468.72	56.59	-11.71	68.3	40.7	34.53	10.99	29.63	103	278	P	V
		5450	46.24	-7.76	54	30.37	34.53	10.97	29.63	103	278	A	V
	*	5578	99.48	-	-	83.52	34.58	11.14	29.76	103	278	P	V
		5578	92.45	-	-	76.49	34.58	11.14	29.76	103	278	A	V
		5757.72	57.52	-10.78	68.3	41.01	34.93	11.35	29.77	103	278	P	V
802.11a CH 140 5700MHz		5738.44	58.27	-10.03	68.3	41.82	34.89	11.34	29.78	100	262	P	H
	*	5698	102.9	-	-	86.64	34.78	11.28	29.8	100	262	P	H
		5698	95.88	-	-	79.62	34.78	11.28	29.8	100	262	A	H
		5731.08	57.47	-10.83	68.3	41.08	34.85	11.32	29.78	108	274	P	V
	*	5698	99.03	-	-	82.77	34.78	11.28	29.8	108	274	P	V
		5698	91.84	-	-	75.58	34.78	11.28	29.8	108	274	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	43.79	-30.21	74	55.52	38.1	15.9	65.73	300	360	P	H
		11000	43.32	-30.68	74	55.05	38.1	15.9	65.73	100	360	P	V
802.11a CH 116 5580MHz		11160	44.52	-29.48	74	55.98	38.2	15.98	65.64	100	360	P	H
		11160	44.87	-29.13	74	56.33	38.2	15.98	65.64	300	360	P	V
802.11a CH 140 5700MHz		11400	45.19	-28.81	74	56.25	38.34	16.1	65.5	300	0	P	H
		11400	45.58	-28.42	74	56.64	38.34	16.1	65.5	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - 5470~5725MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5424.24	56.9	-17.1	74	41.05	34.51	10.91	29.57	100	260	P	H
		5464.88	58.18	-10.12	68.3	42.29	34.53	10.99	29.63	100	260	P	H
		5456.24	47.84	-6.16	54	31.97	34.53	10.97	29.63	100	260	A	H
	*	5500	103.55	-	-	87.61	34.55	11.04	29.65	100	260	P	H
		5500	96.01	-	-	80.07	34.55	11.04	29.65	100	260	A	H
		5453.36	56.25	-17.75	74	40.38	34.53	10.97	29.63	291	152	P	V
		5466	56.26	-12.04	68.3	40.37	34.53	10.99	29.63	291	152	P	V
	*	5456.24	46.68	-7.32	54	30.81	34.53	10.97	29.63	291	152	A	V
		5500	99.53	-	-	83.59	34.55	11.04	29.65	291	152	P	V
		5500	92.25	-	-	76.31	34.55	11.04	29.65	291	152	A	V
802.11n HT20 CH 116 5580MHz		5459.6	56.39	-17.61	74	40.52	34.53	10.97	29.63	100	252	P	H
		5466.8	56.01	-12.29	68.3	40.12	34.53	10.99	29.63	100	252	P	H
	*	5451.6	46.58	-7.42	54	30.71	34.53	10.97	29.63	100	252	A	H
		5584	104.54	-	-	88.55	34.59	11.16	29.76	100	252	P	H
		5584	97.91	-	-	81.92	34.59	11.16	29.76	100	252	A	H
		5739.08	58.74	-9.56	68.3	42.29	34.89	11.34	29.78	100	252	P	H
		5450.48	57.09	-16.91	74	41.22	34.53	10.97	29.63	100	279	P	V
		5466.64	55.49	-12.81	68.3	39.6	34.53	10.99	29.63	100	279	P	V
	*	5446.8	46.3	-7.7	54	30.4	34.53	10.97	29.6	100	279	A	V
		5578	100.12	-	-	84.16	34.58	11.14	29.76	100	279	P	V
		5578	92.87	-	-	76.91	34.58	11.14	29.76	100	279	A	V
		5731.88	58.08	-10.22	68.3	41.69	34.85	11.32	29.78	100	279	P	V



802.11n HT20 CH 140 5700MHz		5728.92	58.56	-9.74	68.3	42.18	34.85	11.32	29.79	100	263	P	H
	*	5704	102.58	-	-	86.26	34.82	11.3	29.8	100	263	P	H
		5704	95.52	-	-	79.2	34.82	11.3	29.8	100	263	A	H
		5740.92	57.71	-10.59	68.3	41.26	34.89	11.34	29.78	243	150	P	V
	*	5698	98.84	-	-	82.58	34.78	11.28	29.8	243	150	P	V
		5698	91.61	-	-	75.35	34.78	11.28	29.8	243	150	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	43.12	-30.88	74	54.85	38.1	15.9	65.73	100	0	P	H
		11000	43.68	-30.32	74	55.41	38.1	15.9	65.73	100	360	P	V
802.11n HT20 CH 116 5580MHz		11160	45.15	-28.85	74	56.61	38.2	15.98	65.64	300	0	P	H
		11160	44.81	-29.19	74	56.27	38.2	15.98	65.64	300	0	P	V
802.11n HT20 CH 140 5700MHz		11400	46.93	-27.07	74	57.99	38.34	16.1	65.5	100	360	P	H
		11400	44.86	-29.14	74	55.92	38.34	16.1	65.5	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - 5470~5725MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5452.56	56.9	-17.1	74	41.03	34.53	10.97	29.63	100	243	P	H
		5469.36	57.36	-10.94	68.3	41.47	34.53	10.99	29.63	100	243	P	H
		5458.32	47.26	-6.74	54	31.39	34.53	10.97	29.63	100	243	A	H
	*	5506	101.34	-	-	85.43	34.55	11.04	29.68	100	243	P	H
		5506	93.77	-	-	77.86	34.55	11.04	29.68	100	243	A	H
		5742.28	58.03	-10.27	68.3	41.58	34.89	11.34	29.78	100	243	P	H
		5459.6	57.74	-16.26	74	41.87	34.53	10.97	29.63	100	144	P	V
		5463.44	56.81	-11.49	68.3	40.92	34.53	10.99	29.63	100	144	P	V
		5452.88	46.75	-7.25	54	30.88	34.53	10.97	29.63	100	144	A	V
	*	5506	96.5	-	-	80.59	34.55	11.04	29.68	100	144	P	V
		5506	89	-	-	73.09	34.55	11.04	29.68	100	144	A	V
		5741.64	58.72	-9.58	68.3	42.27	34.89	11.34	29.78	100	144	P	V
802.11n HT40 CH 110 5550MHz		5424.08	56.17	-17.83	74	40.32	34.51	10.91	29.57	100	260	P	H
		5468.4	55.92	-12.38	68.3	40.03	34.53	10.99	29.63	100	260	P	H
		5458.64	46.51	-7.49	54	30.64	34.53	10.97	29.63	100	260	A	H
	*	5542	100.14	-	-	84.18	34.57	11.09	29.7	100	260	P	H
		5542	92.69	-	-	76.73	34.57	11.09	29.7	100	260	A	H
		5744.36	57.72	-10.58	68.3	41.27	34.89	11.34	29.78	100	260	P	H
		5437.84	56.7	-17.3	74	40.84	34.52	10.94	29.6	100	277	P	V
		5465.68	56.05	-12.25	68.3	40.16	34.53	10.99	29.63	100	277	P	V
		5456.88	46.39	-7.61	54	30.52	34.53	10.97	29.63	100	277	A	V
	*	5554	95.63	-	-	79.68	34.57	11.11	29.73	100	277	P	V
		5554	88.56	-	-	72.61	34.57	11.11	29.73	100	277	A	V
		5735.56	57.52	-10.78	68.3	41.07	34.89	11.34	29.78	100	277	P	V



802.11n HT40 CH 134 5670MHz		5371.92	56.85	-17.15	74	41.02	34.5	10.85	29.52	100	311	P	H
		5460.72	55.52	-12.78	68.3	39.65	34.53	10.97	29.63	100	311	P	H
		5458.32	46.51	-7.49	54	30.64	34.53	10.97	29.63	100	311	A	H
	*	5668	98.95	-	-	82.74	34.75	11.26	29.8	100	311	P	H
		5668	92.21	-	-	76	34.75	11.26	29.8	100	311	A	H
		5755.4	57.94	-10.36	68.3	41.44	34.93	11.35	29.78	100	311	P	H
		5432.4	56.79	-17.21	74	40.93	34.52	10.94	29.6	206	305	P	V
		5463.76	56.15	-12.15	68.3	40.26	34.53	10.99	29.63	206	305	P	V
		5426.8	46.57	-7.43	54	30.75	34.51	10.91	29.6	206	305	A	V
	*	5668	99.7	-	-	83.49	34.75	11.26	29.8	206	305	P	V
		5668	94.02	-	-	77.81	34.75	11.26	29.8	206	305	A	V
		5728.04	58.09	-10.21	68.3	41.71	34.85	11.32	29.79	206	305	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	43.56	-30.44	74	55.26	38.11	15.91	65.72	200	360	P	H
		11020	44.36	-29.64	74	56.06	38.11	15.91	65.72	300	0	P	V
802.11n HT40 CH 110 5550MHz		11100	44.79	-29.21	74	56.35	38.16	15.95	65.67	300	0	P	H
		11100	45.75	-28.25	74	57.31	38.16	15.95	65.67	100	0	P	V
802.11n HT40 CH 134 5670MHz		11345	45.32	-28.68	74	56.46	38.31	16.08	65.53	300	360	P	H
		11340	46.67	-27.33	74	57.84	38.3	16.07	65.54	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - 5470~5725MHz
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)	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		5393.2	56.72	-17.28	74	40.9	34.5	10.87	29.55	100	246	P	H
		5460.56	56.79	-11.51	68.3	40.92	34.53	10.97	29.63	100	246	P	H
		5459.28	47.4	-6.6	54	31.53	34.53	10.97	29.63	100	246	A	H
	*	5524	97.91	-	-	81.97	34.56	11.06	29.68	100	246	P	H
		5524	90.27	-	-	74.33	34.56	11.06	29.68	100	246	A	H
		5741.32	58.58	-9.72	68.3	42.13	34.89	11.34	29.78	100	246	P	H
		5376.08	56.52	-17.48	74	40.72	34.5	10.85	29.55	370	314	P	V
		5467.44	56.7	-11.6	68.3	40.81	34.53	10.99	29.63	370	314	P	V
		5451.12	46.45	-7.55	54	30.58	34.53	10.97	29.63	370	314	A	V
	*	5524	94.04	-	-	78.1	34.56	11.06	29.68	370	314	P	V
		5524	86.35	-	-	70.41	34.56	11.06	29.68	370	314	A	V
		5759.08	57.92	-10.38	68.3	41.41	34.93	11.35	29.77	370	314	P	V
802.11ac VHT80 CH 122 5610MHz		5444.24	57.19	-16.81	74	41.33	34.52	10.94	29.6	254	268	P	H
		5469.04	56.32	-11.98	68.3	40.43	34.53	10.99	29.63	254	268	P	H
		5449.84	46.47	-7.53	54	30.6	34.53	10.97	29.63	254	268	A	H
	*	5614	95.81	-	-	79.8	34.6	11.19	29.78	254	268	P	H
		5614	88.68	-	-	72.67	34.6	11.19	29.78	254	268	A	H
		5735.88	57.58	-10.72	68.3	41.13	34.89	11.34	29.78	254	268	P	H
		5432.72	56.21	-17.79	74	40.35	34.52	10.94	29.6	356	308	P	V
		5467.28	55.67	-12.63	68.3	39.78	34.53	10.99	29.63	356	308	P	V
		5459.44	46.34	-7.66	54	30.47	34.53	10.97	29.63	356	308	A	V
	*	5608	94.63	-	-	78.62	34.6	11.19	29.78	356	308	P	V
		5608	87.17	-	-	71.16	34.6	11.19	29.78	356	308	A	V
		5743.32	57.79	-10.51	68.3	41.34	34.89	11.34	29.78	356	308	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C 5470~5725MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11060	44.4	-29.6	74	56.02	38.14	15.93	65.69	100	0	P	H
VHT80		11060	46.17	-27.83	74	57.79	38.14	15.93	65.69	300	0	P	V
CH 106													
5530MHz													
802.11ac		11224	45.8	-28.2	74	57.17	38.23	16.01	65.61	100	360	P	H
VHT80		11220	45.43	-28.57	74	56.8	38.23	16.01	65.61	300	360	P	V
CH 122													
5610MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5722	103.18	-	-	86.8	34.85	11.32	29.79	246	261	P	H
		5722	95.78	-	-	79.4	34.85	11.32	29.79	246	261	A	H
	*	5716	100.23	-	-	83.9	34.82	11.3	29.79	304	310	P	V
		5716	93.44	-	-	77.11	34.82	11.3	29.79	304	310	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - Straddle Channel

WIFI 802.11a (Harmonic @ 3m)

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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11440	45.52	-28.48	74	56.52	38.36	16.12	65.48	300	360	P	H
		11440	45.67	-28.33	74	56.67	38.36	16.12	65.48	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		5722	101.44	-	-	85.06	34.85	11.32	29.79	100	245	P	H
HT20		5722	95.19	-	-	78.81	34.85	11.32	29.79	100	245	A	H
CH 144		5716	100.03	-	-	83.7	34.82	11.3	29.79	307	311	P	V
5720MHz		5716	92.9	-	-	76.57	34.82	11.3	29.79	307	311	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11440	44.88	-29.12	74	55.88	38.36	16.12	65.48	100	360	P	H
HT20												P	V
CH 144		11440	45.05	-28.95	74	56.05	38.36	16.12	65.48	300	360		
5720MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		5704	99.22	-	-	82.9	34.82	11.3	29.8	100	241	P	H
HT40		5704	92.26	-	-	75.94	34.82	11.3	29.8	100	241	A	H
CH 142		5716	96.1	-	-	79.77	34.82	11.3	29.79	278	314	P	V
5710MHz		5716	89.7	-	-	73.37	34.82	11.3	29.79	278	314	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11422	44.62	-29.38	74	55.65	38.35	16.11	65.49	300	360	P	H
HT40												P	V
CH 142		11422	45.98	-28.02	74	57.01	38.35	16.11	65.49	100	360		
5710MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 1- UNII-2C - Straddle Channel
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac	*	5698	95.8	-	-	79.54	34.78	11.28	29.8	100	245	P	H
VHT80		5698	88.61	-	-	72.35	34.78	11.28	29.8	100	245	A	H
CH 138	*	5698	93.58	-	-	77.32	34.78	11.28	29.8	283	314	P	V
5690MHz		5698	86.3	-	-	70.04	34.78	11.28	29.8	283	314	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 1- UNII-2C - Straddle Channel
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11378	44.89	-29.11	74	56	38.32	16.09	65.52	100	0	P	H
VHT80		11378	44.99	-29.01	74	56.1	38.32	16.09	65.52	300	0	P	V
CH 138													
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A - 5250~5350MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a		10520	45.79	-22.51	68.3	58.86	37.58	15.64	66.29	100	0	P	H
CH 52		10520	45.02	-23.28	68.3	58.09	37.58	15.64	66.29	300	0	P	V
5260MHz													
802.11a		10600	44.94	-29.06	74	57.77	37.67	15.69	66.19	300	0	P	H
CH 60		10600	45.13	-28.87	74	57.96	37.67	15.69	66.19	100	0	P	V
5300MHz													
802.11a		10640	44.54	-29.46	74	57.27	37.71	15.71	66.15	100	360	P	H
CH 64		10640	45.61	-28.39	74	58.34	37.71	15.71	66.15	300	360	P	V
5320MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A 5250~5350MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	45.43	-22.87	68.3	58.5	37.58	15.64	66.29	300	0	P	H
		10520	44.77	-23.53	68.3	57.84	37.58	15.64	66.29	100	0	P	V
802.11n HT20 CH 60 5300MHz		10600	45.88	-28.12	74	58.71	37.67	15.69	66.19	100	0	P	H
		10600	44.36	-29.64	74	57.19	37.67	15.69	66.19	300	0	P	V
802.11n HT20 CH 64 5320MHz		10640	45.8	-28.2	74	58.53	37.71	15.71	66.15	100	0	P	H
		10640	45.73	-28.27	74	58.46	37.71	15.71	66.15	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 3-UNII-2A 5250~5350MHz
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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10542	44.73	-23.57	68.3	57.75	37.6	15.65	66.27	300	360	P	H
		10542	45.13	-23.17	68.3	58.15	37.6	15.65	66.27	300	0	P	V
802.11n HT40 CH 62 5310MHz		10619	44.3	-29.7	74	57.08	37.69	15.7	66.17	100	360	P	H
		10619	44.24	-29.76	74	57.02	37.69	15.7	66.17	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A 5250~5350MHz
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)	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		10575	45.21	-23.09	68.3	58.14	37.63	15.67	66.23	100	360	P	H
		10575	44.88	-23.42	68.3	57.81	37.63	15.67	66.23	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 3-UNII-2A - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	45.76	-28.24	74	57.49	38.1	15.9	65.73	300	360	P	H
		11000	45.22	-28.78	74	56.95	38.1	15.9	65.73	100	360	P	V
802.11a CH 116 5580MHz		11160	45.09	-28.91	74	56.55	38.2	15.98	65.64	100	360	P	H
		11160	45.91	-28.09	74	57.37	38.2	15.98	65.64	300	360	P	V
802.11a CH 140 5700MHz		11400	46.59	-27.41	74	57.65	38.34	16.1	65.5	300	360	P	H
		11400	45.64	-28.36	74	56.7	38.34	16.1	65.5	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	44.7	-29.3	74	56.43	38.1	15.9	65.73	300	0	P	H
		11000	45.5	-28.5	74	57.23	38.1	15.9	65.73	100	0	P	V
802.11n HT20 CH 116 5580MHz		11160	46.06	-27.94	74	57.52	38.2	15.98	65.64	100	0	P	H
		11160	45.05	-28.95	74	56.51	38.2	15.98	65.64	300	0	P	V
802.11n HT20 CH 140 5700MHz		11400	45.37	-28.63	74	56.43	38.34	16.1	65.5	100	360	P	H
		11400	46.43	-27.57	74	57.49	38.34	16.1	65.5	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A - 5470~5725MHz

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11015	46.33	-27.67	74	58.03	38.11	15.91	65.72	300	0	P	H
		11015	46.36	-27.64	74	58.06	38.11	15.91	65.72	300	360	P	V
802.11n HT40 CH 110 5550MHz		11103	46.1	-27.9	74	57.66	38.16	15.95	65.67	100	360	P	H
		11103	45.96	-28.04	74	57.52	38.16	15.95	65.67	300	360	P	V
802.11n HT40 CH 134 5670MHz		11345	45.75	-28.25	74	56.89	38.31	16.08	65.53	100	360	P	H
		11345	45.29	-28.71	74	56.43	38.31	16.08	65.53	300	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 3-UNII-2A 5470~5725MHz

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)	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		11059	46.23	-27.77	74	57.85	38.14	15.93	65.69	100	360	P	H
		11059	45.63	-28.37	74	57.25	38.14	15.93	65.69	300	360	P	V
802.11ac VHT80 CH 122 5610MHz		11224	46.22	-27.78	74	57.59	38.23	16.01	65.61	300	360	P	H
		11224	44.56	-29.44	74	55.93	38.23	16.01	65.61	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A - 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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		11440	45.83	-28.17	74	56.83	38.36	16.12	65.48	300	360	P	H
CH 144		11440	46.03	-27.97	74	57.03	38.36	16.12	65.48	300	0	P	V
5720MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 3-UNII-2A - Straddle Channel

WIFI 802.11n HT20 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		11444	45.96	-28.04	74	56.96	38.36	16.12	65.48	300	0	P	H
HT20		11444	45.89	-28.11	74	56.89	38.36	16.12	65.48	100	360	P	V
CH 144													
5720MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Sample 3-UNII-2A - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11422	46.21	-27.79	74	57.24	38.35	16.11	65.49	100	360	P	H
HT40		11422	45.62	-28.38	74	56.65	38.35	16.11	65.49	300	0	P	V
CH 142													
5710MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Sample 3-UNII-2A - Straddle Channel

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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11378	45.86	-28.14	74	56.97	38.32	16.09	65.52	300	360	P	H
VHT80		11378	45.96	-28.04	74	57.07	38.32	16.09	65.52	100	360	P	V
CH 138													
5690MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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		(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:

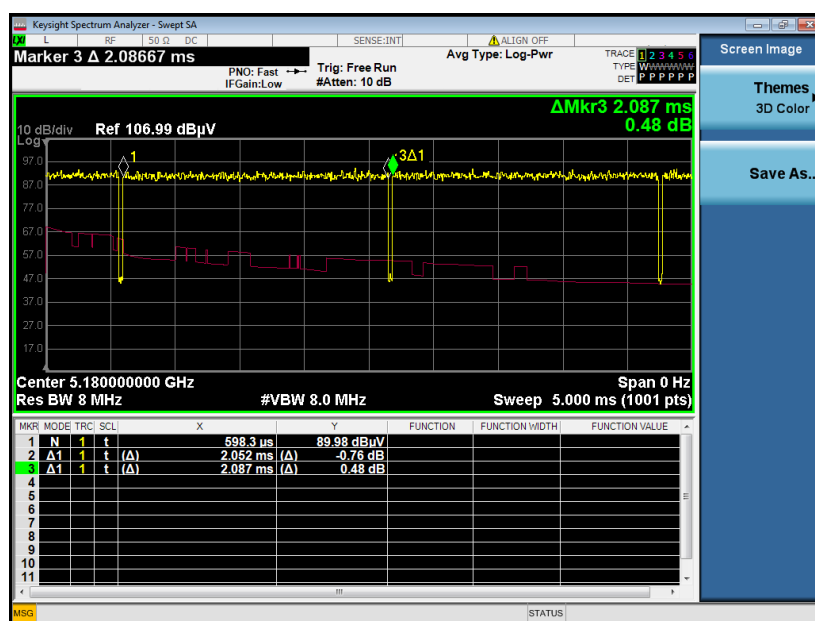
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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

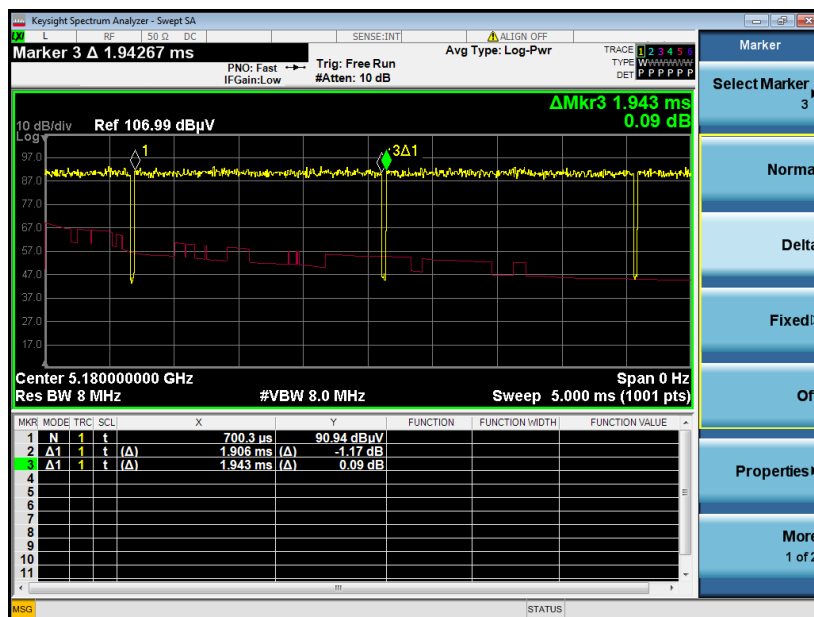
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	Duty factor(dB)
802.11a	98.32	0.07
802.11n HT20	98.10	0.08
802.11n HT40	96.68	0.15
802.11ac VHT80	92.69	0.33

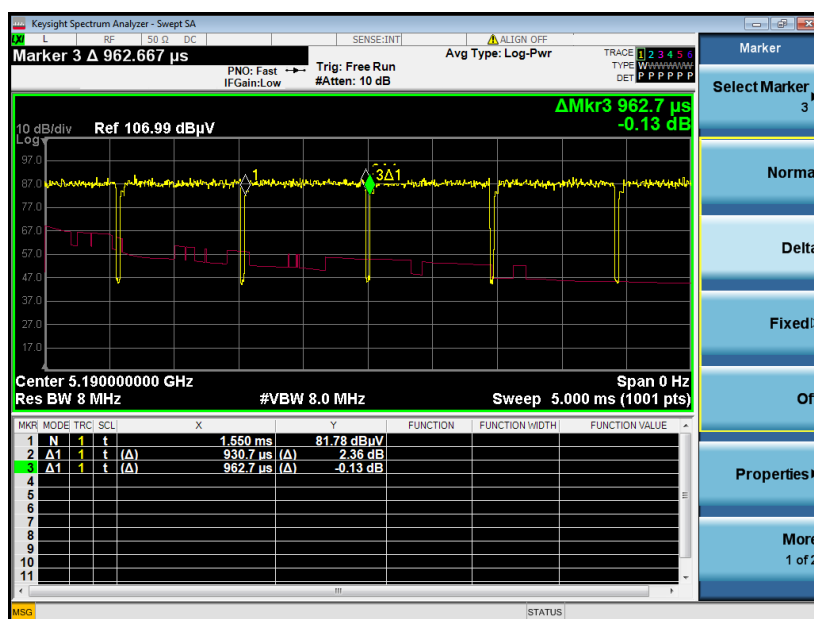
802.11a



802.11n HT20



802.11n HT40



802.11ac VHT80

