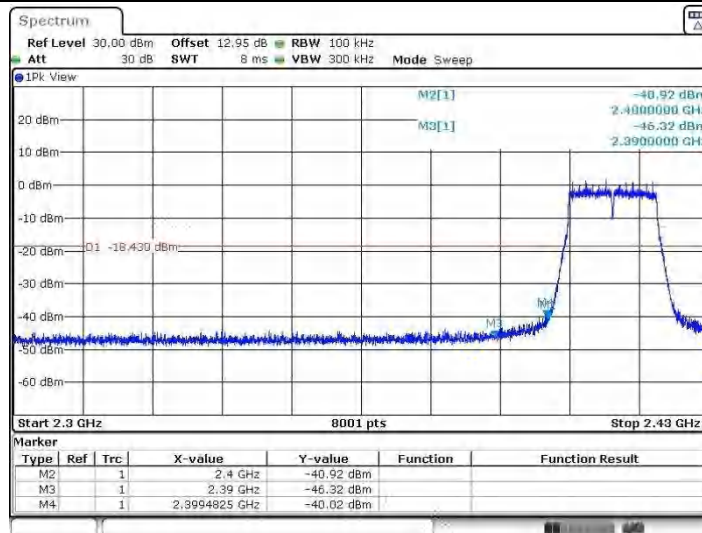


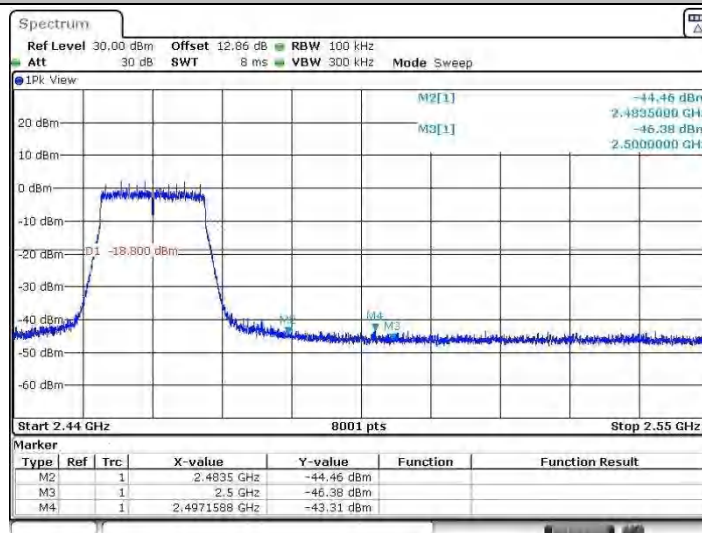


11G_Ant1_Low_2412



Date: 9/10/2022 09:30:26

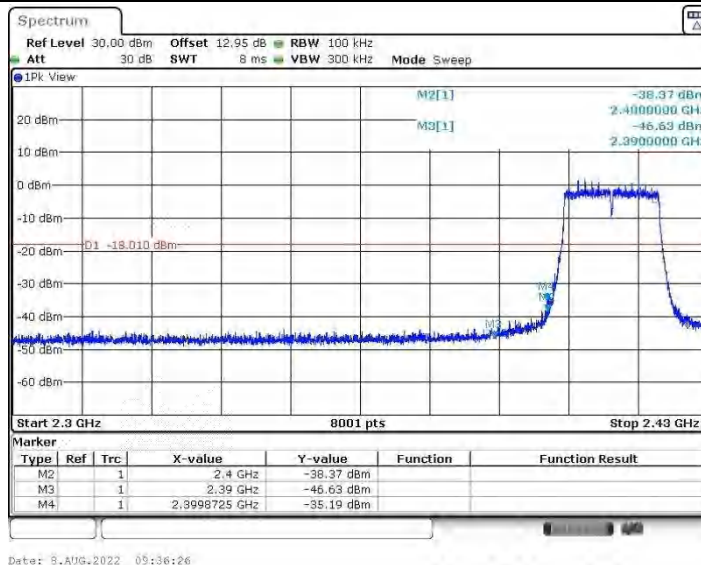
11G_Ant1_High_2462



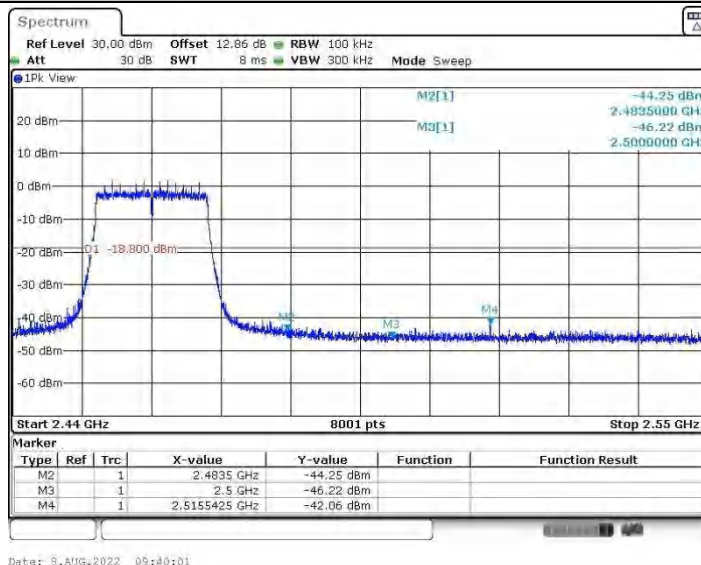
Date: 9/10/2022 09:38:08



11N20SISO_Ant1_Low_2412

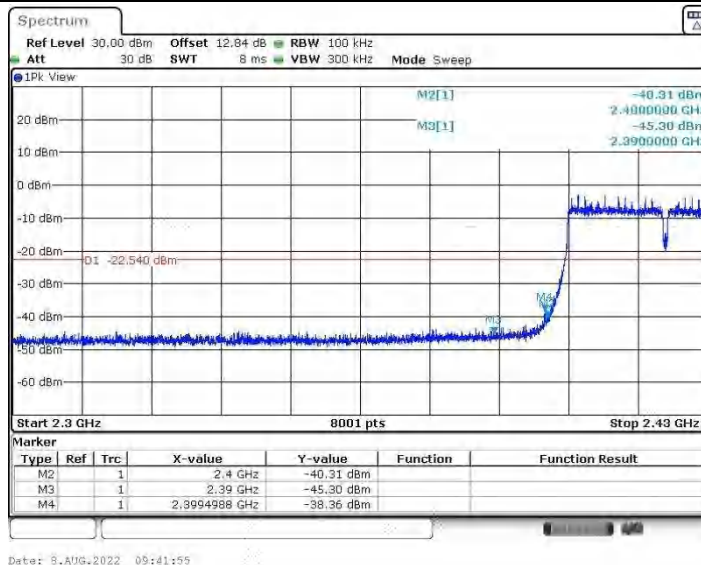


11N20SISO_Ant1_High_2462

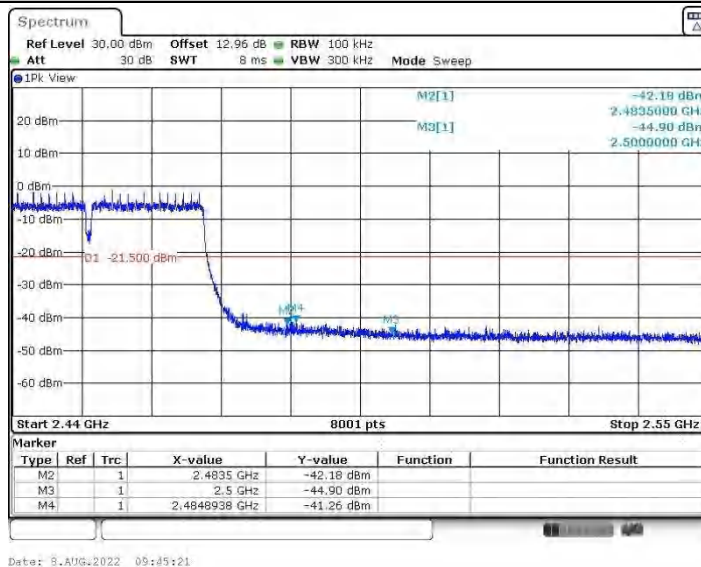




11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



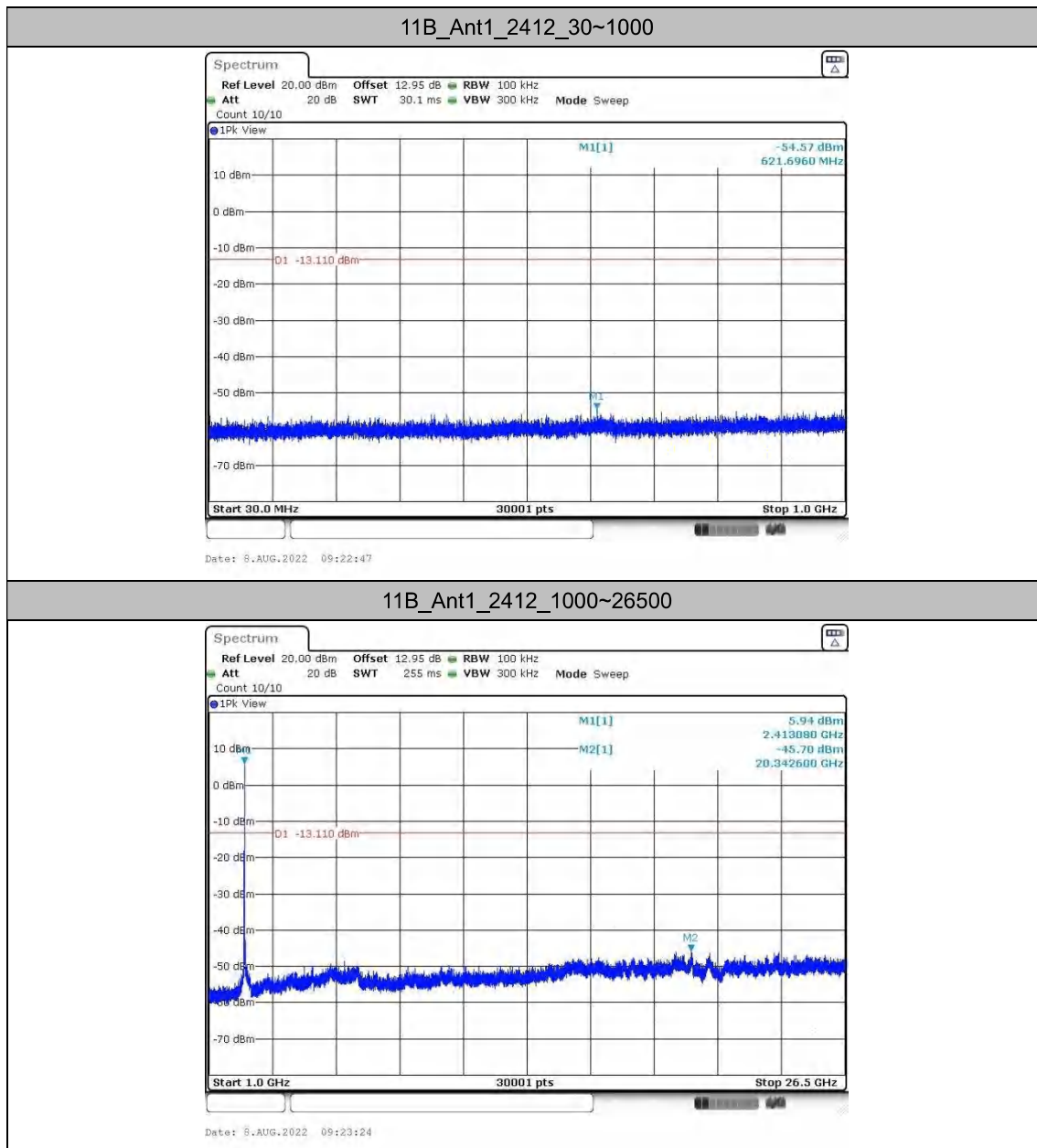
Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	6.89	-54.57	≤-13.11	PASS
			1000~26500	6.89	-45.7	≤-13.11	PASS
		2437	30~1000	4.71	-55.06	≤-15.29	PASS
			1000~26500	4.71	-46.15	≤-15.29	PASS
		2462	30~1000	4.54	-53.99	≤-15.46	PASS
			1000~26500	4.54	-45.74	≤-15.46	PASS
11G	Ant1	2412	30~1000	1.57	-54.84	≤-18.43	PASS
			1000~26500	1.57	-46.05	≤-18.43	PASS
		2437	30~1000	4.53	-54.97	≤-15.47	PASS
			1000~26500	4.53	-46.14	≤-15.47	PASS
		2462	30~1000	1.20	-55.51	≤-18.8	PASS
			1000~26500	1.20	-45.47	≤-18.8	PASS
11N20SISO	Ant1	2412	30~1000	1.99	-54.7	≤-18.01	PASS
			1000~26500	1.99	-46.47	≤-18.01	PASS
		2437	30~1000	5.01	-55.3	≤-14.99	PASS
			1000~26500	5.01	-46.59	≤-14.99	PASS
		2462	30~1000	1.20	-54.55	≤-18.8	PASS
			1000~26500	1.20	-45.83	≤-18.8	PASS
11N40SISO	Ant1	2422	30~1000	-2.54	-51.89	≤-22.54	PASS
			1000~26500	-2.54	-46.02	≤-22.54	PASS
		2437	30~1000	-0.31	-46.86	≤-20.31	PASS
			1000~26500	-0.31	-46.4	≤-20.31	PASS
		2452	30~1000	-1.50	-47.71	≤-21.5	PASS
			1000~26500	-1.50	-45.96	≤-21.5	PASS

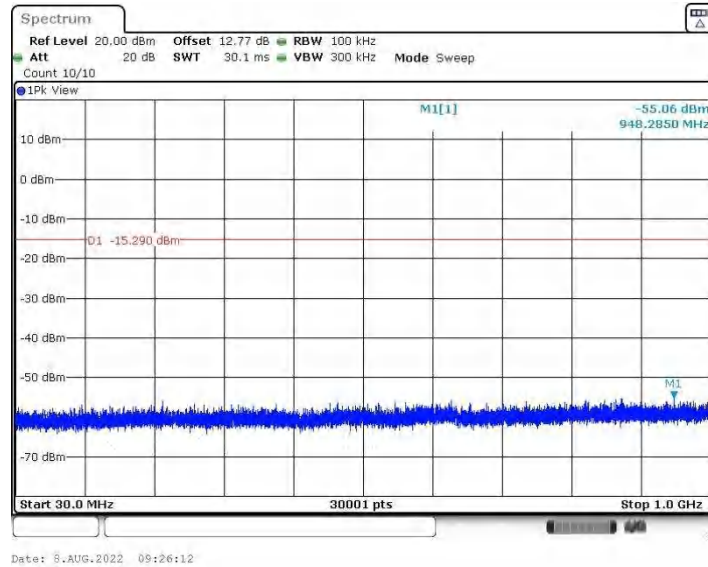


Test Graphs

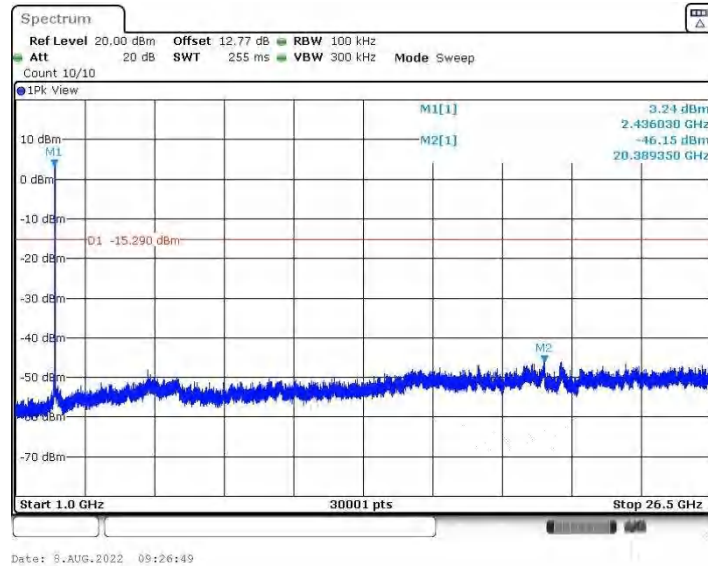




11B_Ant1_2437_30~1000

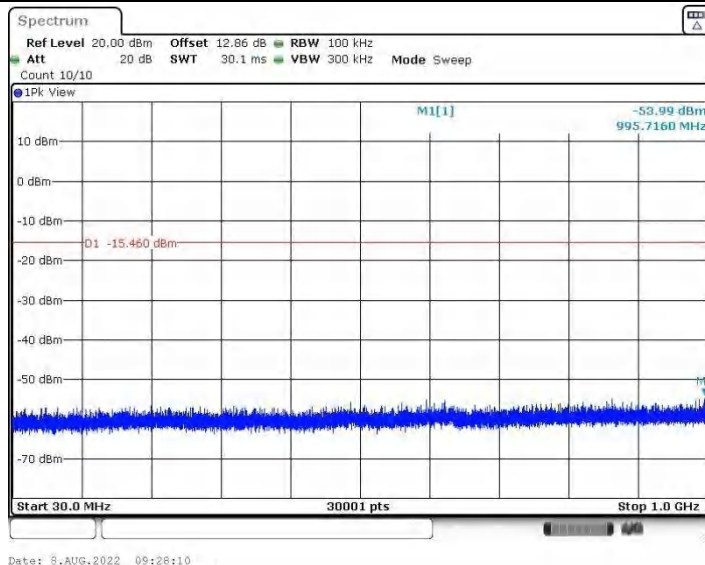


11B_Ant1_2437_1000~26500



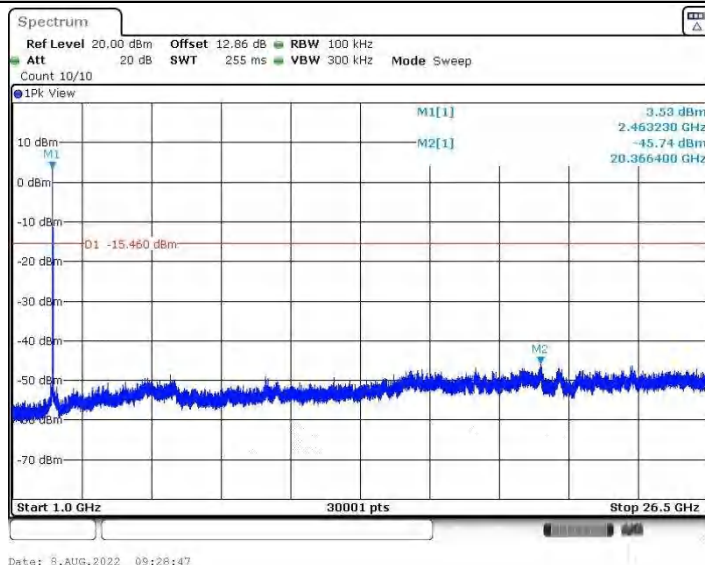


11B_Ant1_2462_30~1000



Date: 8.AUG.2022 09:28:10

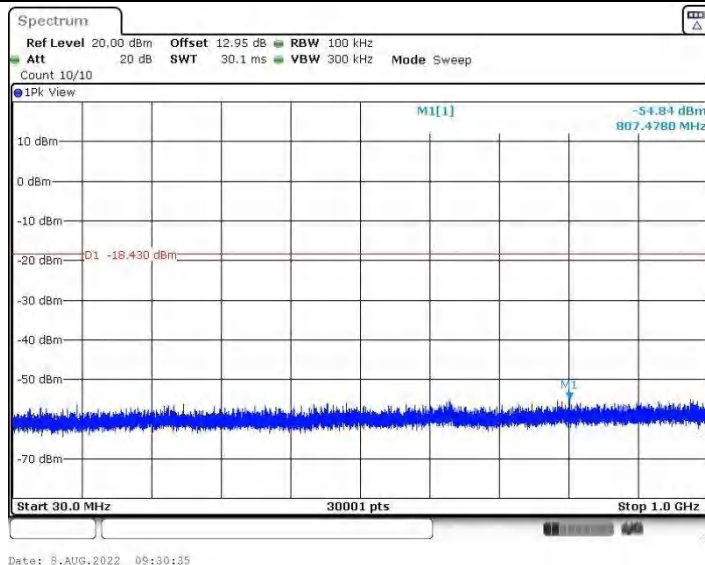
11B_Ant1_2462_1000~26500



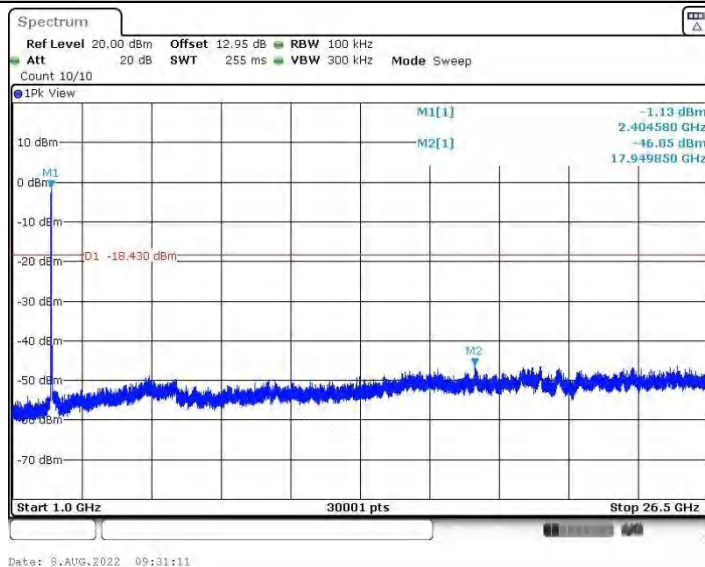
Date: 8.AUG.2022 09:28:47



11G_Ant1_2412_30~1000

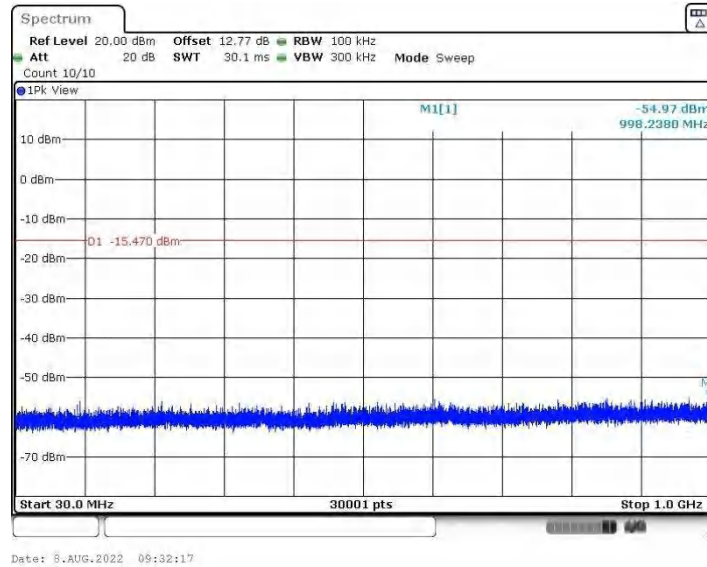


11G_Ant1_2412_1000~26500



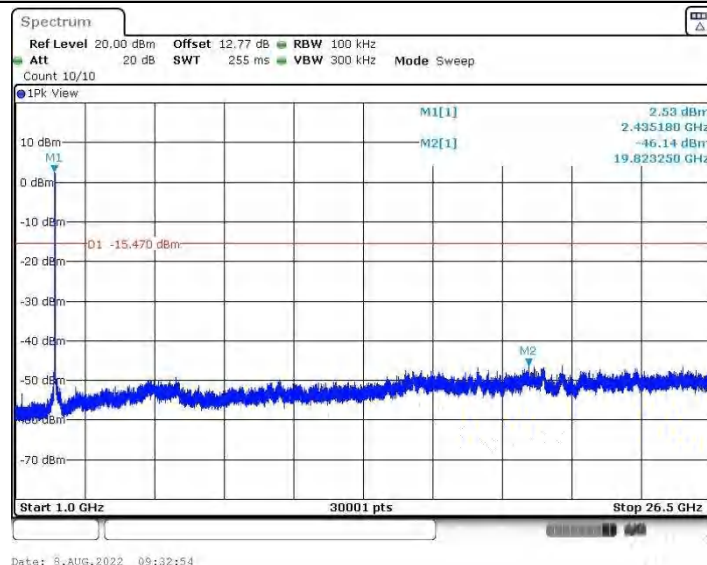


11G_Ant1_2437_30~1000



Date: 8.AUG.2022 09:32:17

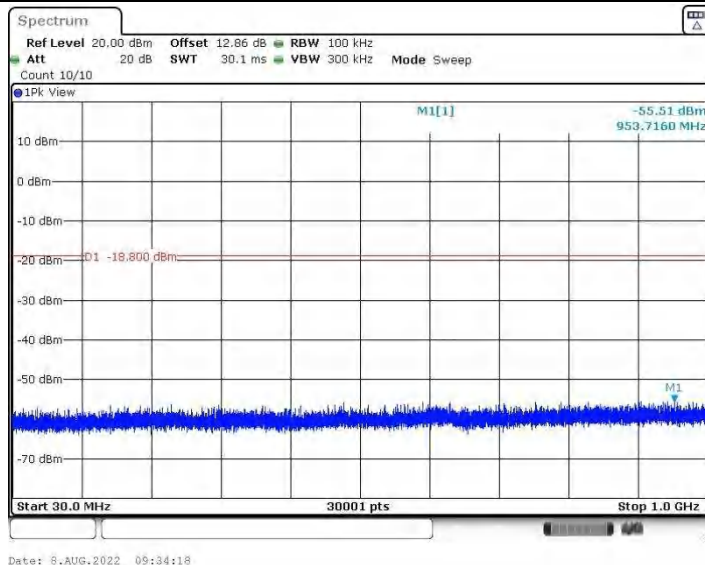
11G_Ant1_2437_1000~26500



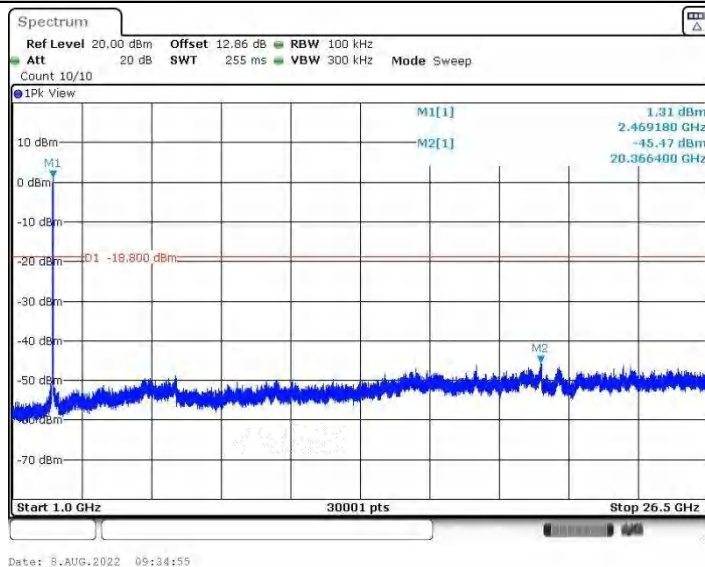
Date: 8.AUG.2022 09:32:54



11G_Ant1_2462_30~1000

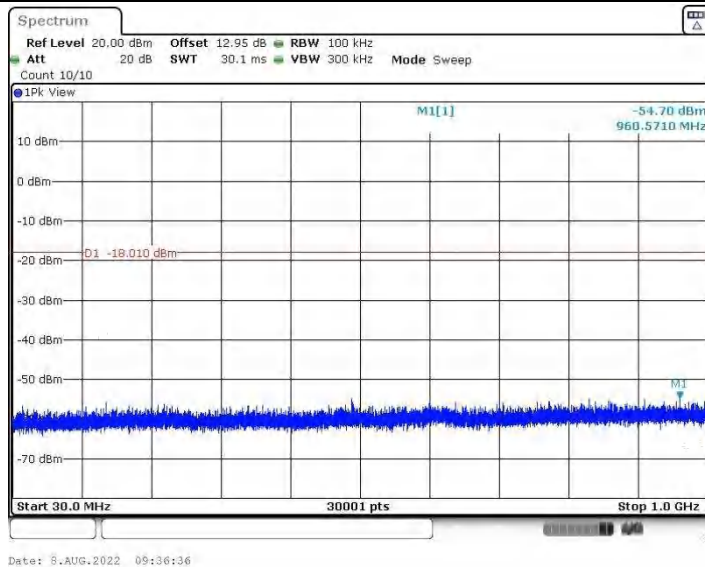


11G_Ant1_2462_1000~26500

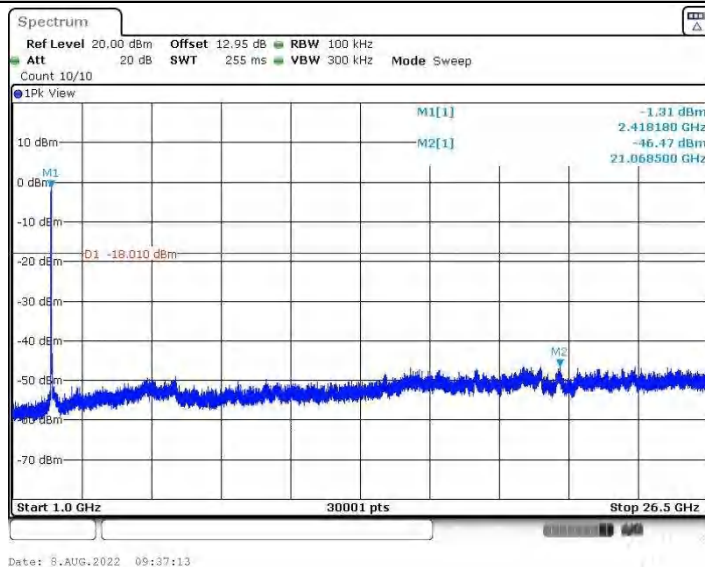




11N20SISO_Ant1_2412_30~1000

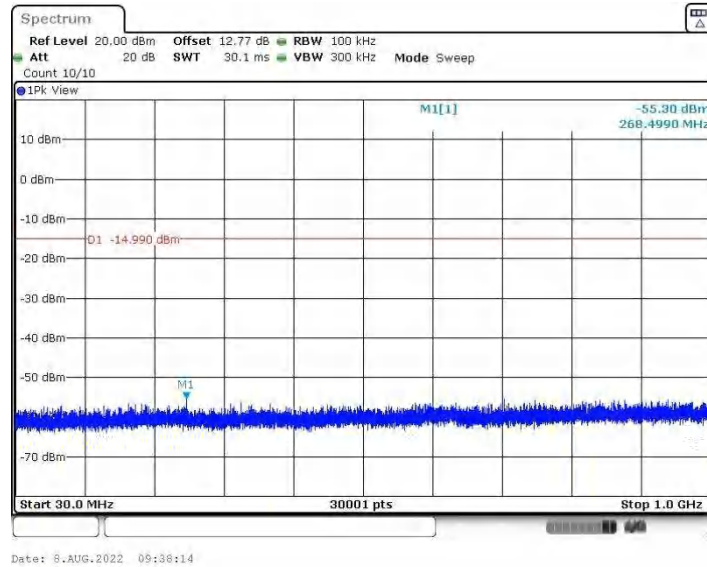


11N20SISO_Ant1_2412_1000~26500

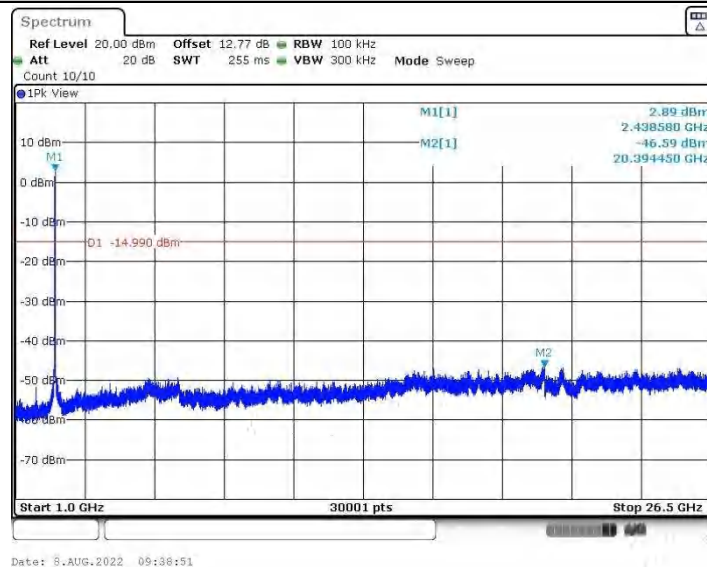




11N20SISO_Ant1_2437_30~1000

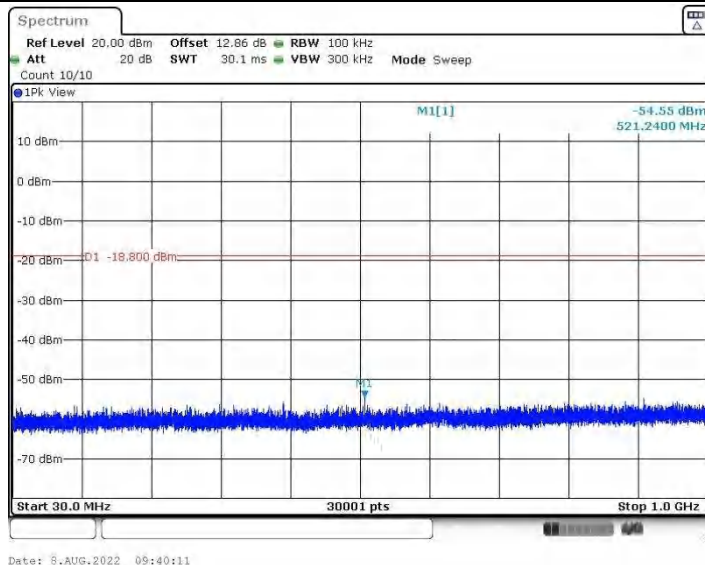


11N20SISO_Ant1_2437_1000~26500

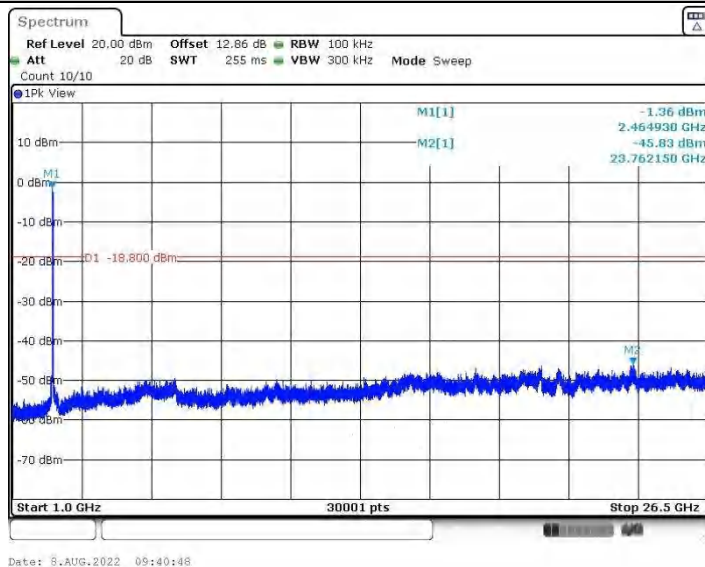




11N20SISO_Ant1_2462_30~1000

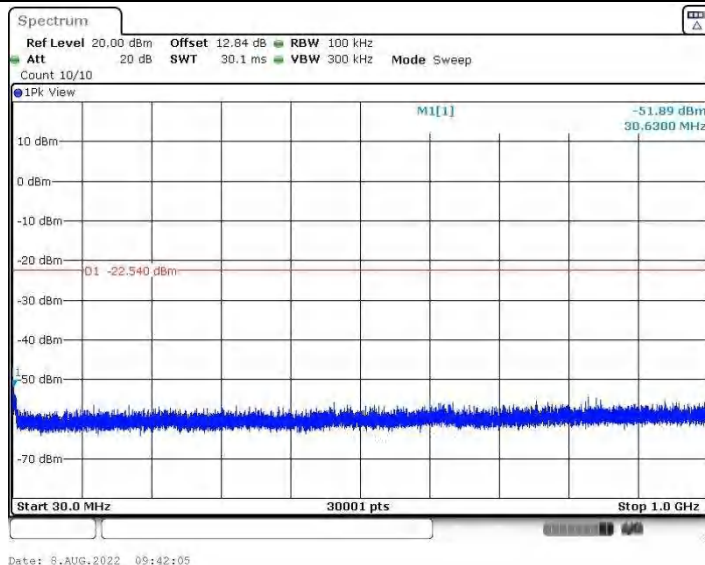


11N20SISO_Ant1_2462_1000~26500

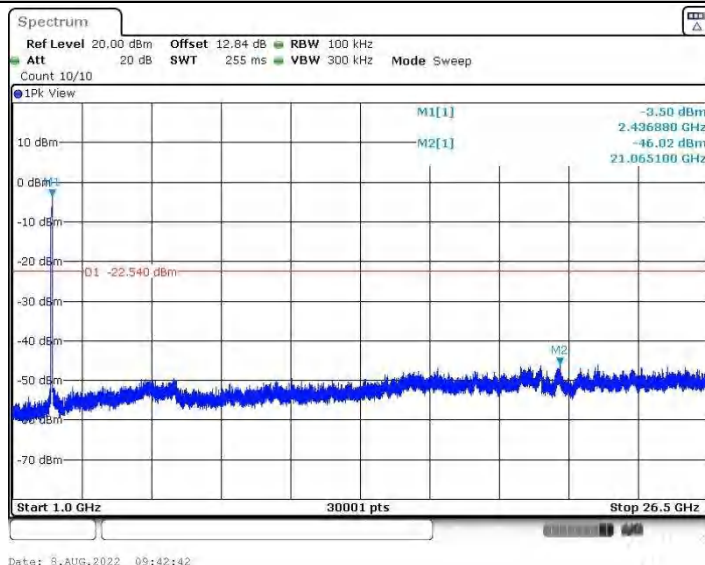




11N40SISO_Ant1_2422_30~1000

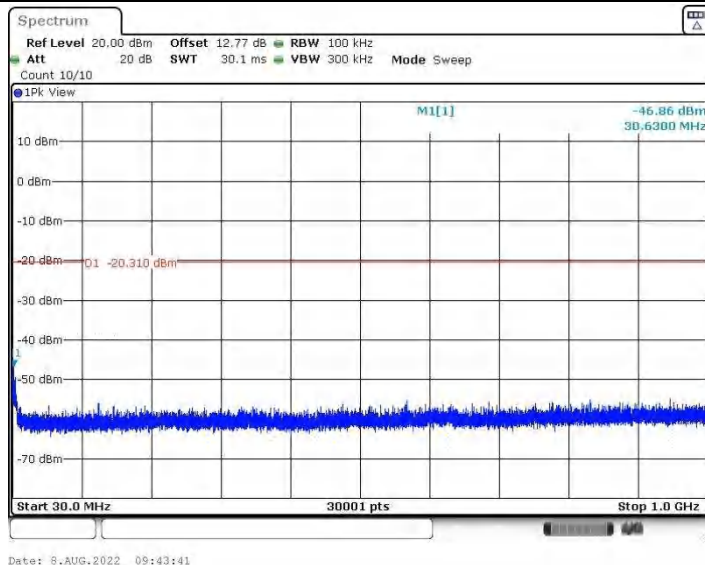


11N40SISO_Ant1_2422_1000~26500

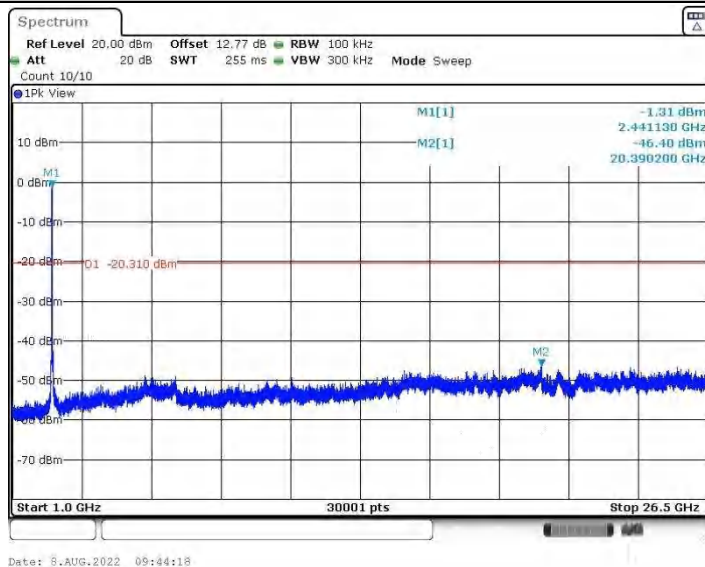




11N40SISO_Ant1_2437_30~1000

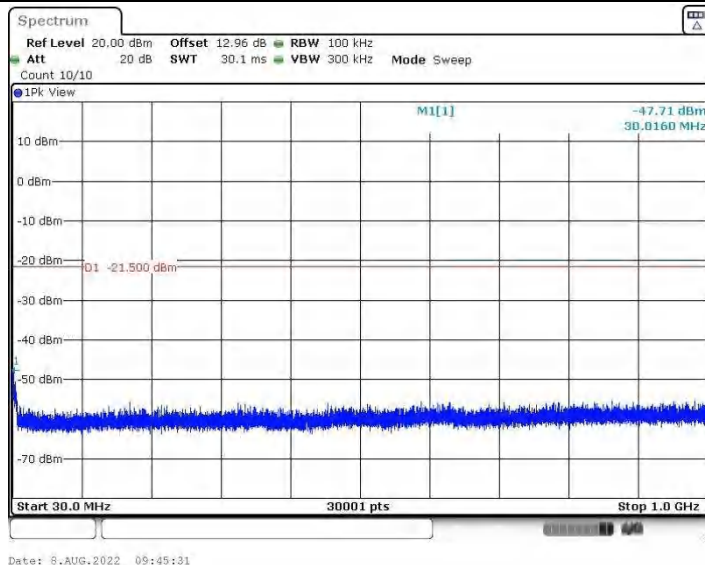


11N40SISO_Ant1_2437_1000~26500

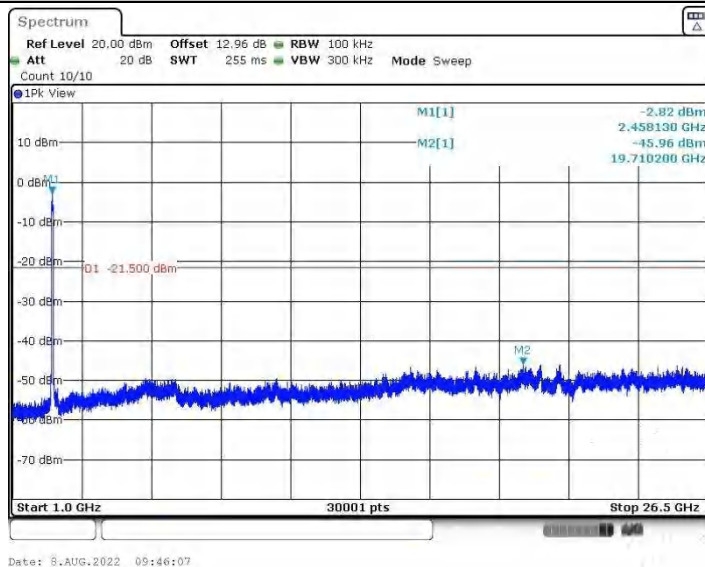




11N40SISO_Ant1_2452_30~1000



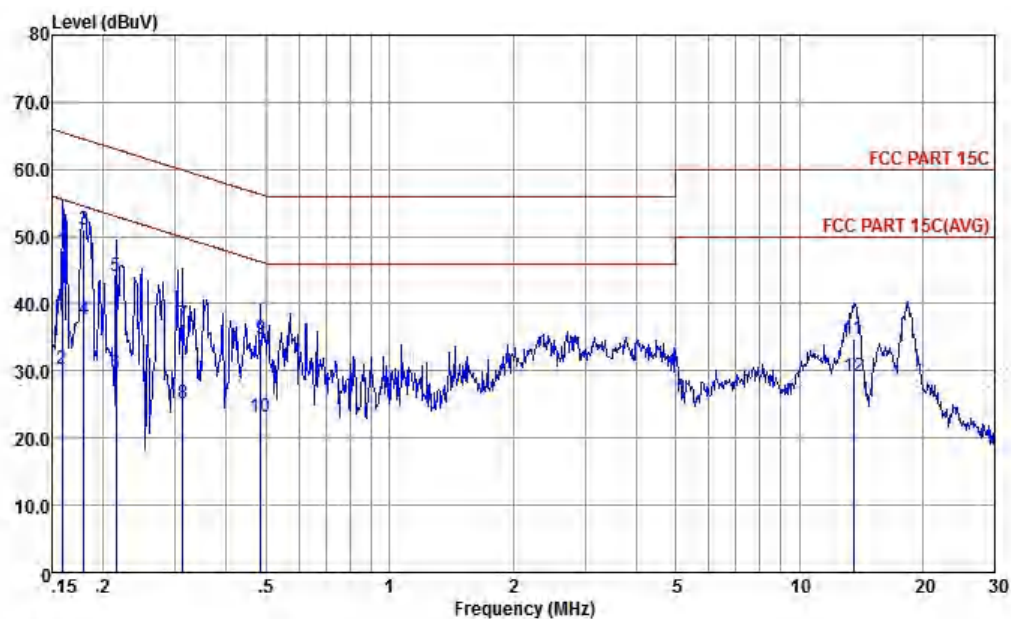
11N40SISO_Ant1_2452_1000~26500





Appendix B. AC Conducted Emission Test Results

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

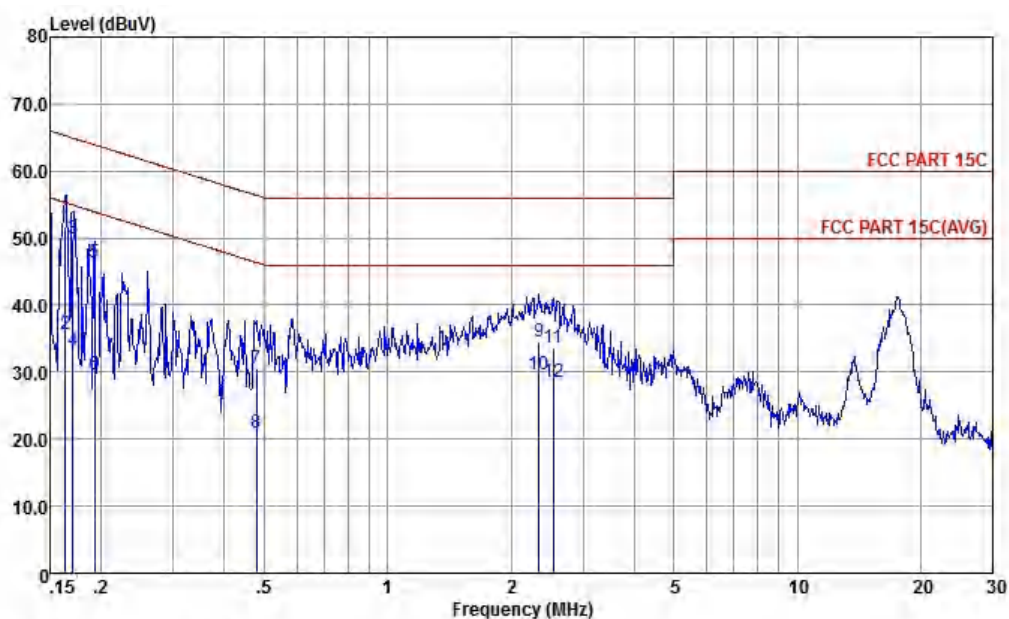


Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
1	0.159	47.98	-17.54	65.52	37.50	0.02	10.46	QP
2	0.159	30.38	-25.14	55.52	19.90	0.02	10.46	Average
3 *	0.180	51.04	-13.46	64.50	40.60	0.03	10.41	QP
4	0.180	37.74	-16.76	54.50	27.30	0.03	10.41	Average
5	0.215	44.20	-18.81	63.01	33.80	0.05	10.35	QP
6	0.215	29.60	-23.41	53.01	19.20	0.05	10.35	Average
7	0.313	36.97	-22.91	59.88	26.60	0.07	10.30	QP
8	0.313	25.17	-24.71	49.88	14.80	0.07	10.30	Average
9	0.484	34.84	-21.43	56.27	24.50	0.10	10.24	QP
10	0.484	23.24	-23.03	46.27	12.90	0.10	10.24	Average
11	13.551	34.68	-26.32	60.00	24.02	0.28	10.38	QP
12	13.551	29.16	-20.84	50.00	18.50	0.28	10.38	Average



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



Site : CO01-KS
Condition : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 *	0.163	51.75	-13.55	65.30	41.19	0.11	10.45	QP
2	0.163	35.75	-19.55	55.30	25.19	0.11	10.45	Average
3	0.170	49.83	-15.11	64.94	39.29	0.11	10.43	QP
4	0.170	33.13	-21.81	54.94	22.59	0.11	10.43	Average
5	0.192	46.38	-17.55	63.93	35.90	0.10	10.38	QP
6	0.192	29.68	-24.25	53.93	19.20	0.10	10.38	Average
7	0.479	30.55	-25.81	56.36	20.20	0.11	10.24	QP
8	0.479	20.85	-25.51	46.35	10.50	0.11	10.24	Average
9	2.346	34.58	-21.42	56.00	24.21	0.14	10.23	QP
10	2.346	29.68	-16.32	46.00	19.31	0.14	10.23	Average
11	2.540	33.68	-22.32	56.00	23.29	0.15	10.24	QP
12	2.540	28.48	-17.52	46.00	18.09	0.15	10.24	Average

Note:

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



Appendix C. Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	22~23°C
		Relative Humidity :	41~42%

Channel	Power setting
11b CH01	11
11b CH06	21
11b CH11	22
11g CH01	11
11g CH06	0
11g CH11	14
11n20 CH01	10
11n20 CH06	0
11n20 CH11	15
11n40 CH03	20
11n40 CH06	12
11n40 CH09	15



2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		2386.44	54.72	-19.28	74	51.6	32.88	7.1	36.86	132	244	P	H
		2385.4	45.31	-8.69	54	42.22	32.86	7.1	36.87	132	244	A	H
	*	2412	111.61	-	-	108.43	32.9	7.13	36.85	132	244	P	H
	*	2412	104.31	-	-	101.13	32.9	7.13	36.85	132	244	A	H
		2386.18	55.21	-18.79	74	52.09	32.88	7.1	36.86	400	298	P	V
		2385.53	46.04	-7.96	54	42.92	32.88	7.1	36.86	400	298	A	V
	*	2410	111.02	-	-	107.84	32.9	7.13	36.85	400	298	P	V
	*	2412	103.75	-	-	100.57	32.9	7.13	36.85	400	298	A	V
802.11b CH 11 2462MHz		2488.6	52.96	-21.04	74	49.52	33	7.25	36.81	100	229	P	H
		2488.06	43.08	-10.92	54	39.64	33	7.25	36.81	100	229	A	H
	*	2462	108.29	-	-	104.94	32.96	7.22	36.83	100	229	P	H
	*	2462	101.1	-	-	97.75	32.96	7.22	36.83	100	229	A	H
		2485.78	53.71	-20.29	74	50.3	32.98	7.25	36.82	339	304	P	V
		2487.88	42.88	-11.12	54	39.44	33	7.25	36.81	339	304	A	V
	*	2460	107.65	-	-	104.3	32.96	7.22	36.83	339	304	P	V
	*	2462	100.36	-	-	97.01	32.96	7.22	36.83	339	304	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11b (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)
802.11b CH 01 2412MHz		4830	54.68	-19.32	74	75.61	34.2	10.25	65.38	100	126	P	H
		4830	50.82	-3.18	54	71.75	34.2	10.25	65.38	100	126	A	H
		4830	52.3	-21.7	74	73.23	34.2	10.25	65.38	301	335	P	V
		4830	49.64	-4.36	54	70.57	34.2	10.25	65.38	301	335	A	V
802.11b CH 06 2437MHz		4875	54.59	-19.41	74	75.49	34.23	10.29	65.42	100	130	P	H
		4875	50.8	-3.2	54	71.7	34.23	10.29	65.42	100	130	A	H
		7305	42.22	-31.78	74	59.55	35.86	12.72	65.91	300	0	P	H
		4875	52.25	-21.75	74	73.15	34.23	10.29	65.42	232	343	P	V
		4875	49.67	-4.33	54	70.57	34.23	10.29	65.42	232	343	A	V
		7305	42.33	-31.67	74	59.66	35.86	12.72	65.91	100	0	P	V
802.11b CH 11 2462MHz		4920	54.01	-19.99	74	74.86	34.26	10.34	65.45	100	33	P	H
		4920	50.43	-3.57	54	71.28	34.26	10.34	65.45	100	33	A	H
		7380	41.8	-32.2	74	59.3	35.88	12.73	66.11	300	0	P	H
		4920	51.87	-22.13	74	72.72	34.26	10.34	65.45	252	334	P	V
		4920	48.73	-5.27	54	69.58	34.26	10.34	65.45	252	334	A	V
		7380	42.09	-31.91	74	59.59	35.88	12.73	66.11	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)
802.11g CH 01 2412MHz		2389.95	69.54	-4.46	74	66.42	32.88	7.1	36.86	278	248	P	H
		2389.95	52.45	-1.55	54	49.33	32.88	7.1	36.86	278	248	A	H
	*	2410	107.18	-	-	104	32.9	7.13	36.85	278	248	P	H
	*	2406	99.65	-	-	96.47	32.9	7.13	36.85	278	248	A	H
		2389.95	69.93	-4.07	74	66.81	32.88	7.1	36.86	397	297	P	V
		2389.95	51.96	-2.04	54	48.84	32.88	7.1	36.86	397	297	A	V
	*	2406	106.35	-	-	103.17	32.9	7.13	36.85	397	297	P	V
	*	2412	98.93	-	-	95.75	32.9	7.13	36.85	397	297	A	V
802.11g CH 11 2462MHz		2483.5	68.61	-5.39	74	65.2	32.98	7.25	36.82	382	0	P	H
		2483.5	52.48	-1.52	54	49.07	32.98	7.25	36.82	382	0	A	H
	*	2460	108.14	-	-	104.79	32.96	7.22	36.83	382	0	P	H
	*	2462	100.31	-	-	96.96	32.96	7.22	36.83	382	0	A	H
		2483.5	66.46	-7.54	74	63.05	32.98	7.25	36.82	338	303	P	V
		2483.5	49.87	-4.13	54	46.46	32.98	7.25	36.82	338	303	A	V
	*	2466	106.53	-	-	103.18	32.96	7.22	36.83	338	303	P	V
	*	2462	98.32	-	-	94.97	32.96	7.22	36.83	338	303	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)
802.11g CH 01 2412MHz		4830	48.51	-25.49	74	69.44	34.2	10.25	65.38	300	0	P	H
		4830	47.67	-26.33	74	68.6	34.2	10.25	65.38	100	0	P	V
802.11g CH 06 2437MHz		4875	54.23	-19.77	74	75.13	34.23	10.29	65.42	100	128	P	H
		4875	45.58	-8.42	54	66.48	34.23	10.29	65.42	100	128	A	H
		7305	50.73	-23.27	74	68.06	35.86	12.72	65.91	300	0	P	H
		4875	52.25	-21.75	74	73.15	34.23	10.29	65.42	252	16	P	V
		4875	44.03	-9.97	54	64.93	34.23	10.29	65.42	252	16	A	V
		7305	47.77	-26.23	74	65.1	35.86	12.72	65.91	100	0	P	V
802.11g CH 11 2462MHz		4920	52.57	-21.43	74	73.42	34.26	10.34	65.45	100	128	P	H
		4920	43.21	-10.79	54	64.06	34.26	10.34	65.45	100	128	A	H
		7380	45.68	-28.32	74	63.18	35.88	12.73	66.11	300	0	P	H
		4920	49.2	-24.8	74	70.05	34.26	10.34	65.45	100	0	P	V
		7380	43.08	-30.92	74	60.58	35.88	12.73	66.11	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (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)
802.11n HT20 CH 01 2412MHz		2389.95	67.33	-6.67	74	64.21	32.88	7.1	36.86	166	255	P	H
		2389.95	52.57	-1.43	54	49.45	32.88	7.1	36.86	166	255	A	H
	*	2410	106.91	-	-	103.73	32.9	7.13	36.85	166	255	P	H
	*	2406	99.3	-	-	96.12	32.9	7.13	36.85	166	255	A	H
		2389.82	66.91	-7.09	74	63.79	32.88	7.1	36.86	400	278	P	V
		2389.95	52.2	-1.8	54	49.08	32.88	7.1	36.86	400	278	A	V
	*	2408	105.45	-	-	102.27	32.9	7.13	36.85	400	278	P	V
	*	2408	97.58	-	-	94.4	32.9	7.13	36.85	400	278	A	V
802.11n HT20 CH 11 2462MHz		2485.42	68.56	-5.44	74	65.15	32.98	7.25	36.82	383	0	P	H
		2483.5	52.67	-1.33	54	49.26	32.98	7.25	36.82	383	0	A	H
	*	2466	107.6	-	-	104.25	32.96	7.22	36.83	383	0	P	H
	*	2462	99.81	-	-	96.46	32.96	7.22	36.83	383	0	A	H
		2484.94	63.75	-10.25	74	60.34	32.98	7.25	36.82	386	302	P	V
		2483.5	48.22	-5.78	54	44.81	32.98	7.25	36.82	386	302	A	V
	*	2460	105.5	-	-	102.15	32.96	7.22	36.83	386	302	P	V
	*	2454	97.88	-	-	94.53	32.96	7.22	36.83	386	302	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (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)
802.11n HT20 CH 01 2412MHz		4830	48.5	-25.5	74	69.43	34.2	10.25	65.38	300	0	P	H
		4830	47.22	-26.78	74	68.15	34.2	10.25	65.38	100	0	P	V
802.11n HT20 CH 06 2437MHz		4875	55.2	-18.8	74	76.1	34.23	10.29	65.42	100	130	P	H
		4875	44.96	-9.04	54	65.86	34.23	10.29	65.42	100	130	A	H
		7305	48.55	-25.45	74	65.88	35.86	12.72	65.91	300	0	P	H
		4875	53.32	-20.68	74	74.22	34.23	10.29	65.42	331	258	P	V
		4875	43.26	-10.74	54	64.16	34.23	10.29	65.42	331	258	A	V
		7305	48.71	-25.29	74	66.04	35.86	12.72	65.91	100	0	P	V
802.11n HT20 CH 11 2462MHz		4920	52.39	-21.61	74	73.24	34.26	10.34	65.45	158	17	P	H
		4920	43.88	-10.12	54	64.73	34.26	10.34	65.45	158	17	A	H
		7380	44.67	-29.33	74	62.17	35.88	12.73	66.11	300	0	P	H
		4920	49.61	-24.39	74	70.46	34.26	10.34	65.45	100	0	P	V
		7380	42.51	-31.49	74	60.01	35.88	12.73	66.11	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (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)
802.11n HT40 CH 03 2422MHz		2382.28	65.03	-8.97	74	61.94	32.86	7.1	36.87	166	355	P	H
		2387.48	52.79	-1.21	54	49.67	32.88	7.1	36.86	166	355	A	H
		2487.82	52.99	-21.01	74	49.55	33	7.25	36.81	166	355	P	H
		2489.62	41.86	-12.14	54	38.42	33	7.25	36.81	166	355	A	H
	*	2426	103.46	-	-	100.23	32.92	7.16	36.85	166	355	P	H
	*	2420	95.33	-	-	92.1	32.92	7.16	36.85	166	355	A	H
		2387.61	62.98	-11.02	74	59.86	32.88	7.1	36.86	400	302	P	V
		2387.74	52.45	-1.55	54	49.33	32.88	7.1	36.86	400	302	A	V
		2498.74	50.25	-23.75	74	46.78	33	7.28	36.81	400	302	P	V
		2484.28	39.62	-14.38	54	36.21	32.98	7.25	36.82	400	302	A	V
	*	2412	101.15	-	-	97.97	32.9	7.13	36.85	400	302	P	V
	*	2410	93.07	-	-	89.89	32.9	7.13	36.85	400	302	A	V
802.11n HT40 CH 06 2437MHz		2385.4	67.81	-6.19	74	64.72	32.86	7.1	36.87	165	358	P	H
		2389.56	52.73	-1.27	54	49.61	32.88	7.1	36.86	165	358	A	H
		2486.74	62.96	-11.04	74	59.55	32.98	7.25	36.82	165	358	P	H
		2483.56	49.99	-4.01	54	46.58	32.98	7.25	36.82	165	358	A	H
	*	2424	105.16	-	-	101.93	32.92	7.16	36.85	165	358	P	H
	*	2420	97.49	-	-	94.26	32.92	7.16	36.85	165	358	A	H
		2385.4	65.05	-8.95	74	61.96	32.86	7.1	36.87	382	285	P	V
		2389.82	51.3	-2.7	54	48.18	32.88	7.1	36.86	382	285	A	V
		2483.56	62.48	-11.52	74	59.07	32.98	7.25	36.82	382	285	P	V
		2483.5	49.13	-4.87	54	45.72	32.98	7.25	36.82	382	285	A	V
	*	2452	102.87	-	-	99.58	32.94	7.19	36.84	382	285	P	V
	*	2434	95.48	-	-	92.25	32.92	7.16	36.85	382	285	A	V



802.11n HT40 CH 09 2452MHz		2389.56	60.02	-13.98	74	56.9	32.88	7.1	36.86	352	357	P	H
		2389.69	45.97	-8.03	54	42.85	32.88	7.1	36.86	352	357	A	H
		2483.68	66.03	-7.97	74	62.62	32.98	7.25	36.82	352	357	P	H
		2483.56	49.72	-4.28	54	46.31	32.98	7.25	36.82	352	357	A	H
	*	2438	103.36	-	-	100.07	32.94	7.19	36.84	352	357	P	H
	*	2438	95.12	-	-	91.83	32.94	7.19	36.84	352	357	A	H
		2389.17	58.46	-15.54	74	55.34	32.88	7.1	36.86	382	284	P	V
		2389.95	45.26	-8.74	54	42.14	32.88	7.1	36.86	382	284	A	V
		2483.5	68.84	-5.16	74	65.43	32.98	7.25	36.82	382	284	P	V
		2483.5	52.77	-1.23	54	49.36	32.98	7.25	36.82	382	284	A	V
	*	2438	103.76	-	-	100.47	32.94	7.19	36.84	382	284	P	V
	*	2434	95.88	-	-	92.65	32.92	7.16	36.85	382	284	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (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)
802.11n		4845	45.68	-28.32	74	66.61	34.21	10.25	65.39	300	0	P	H
HT40		7260	42.23	-31.77	74	59.42	35.85	12.72	65.76	300	0	P	H
CH 03		4845	45.75	-28.25	74	66.68	34.21	10.25	65.39	100	0	P	V
2422MHz		7260	41.8	-32.2	74	58.99	35.85	12.72	65.76	100	0	P	V
802.11n		4875	47.41	-26.59	74	68.31	34.23	10.29	65.42	300	0	P	H
HT40		7305	43.19	-30.81	74	60.52	35.86	12.72	65.91	300	0	P	H
CH 06		4875	45.94	-28.06	74	66.84	34.23	10.29	65.42	100	0	P	V
2437MHz		7305	42.48	-31.52	74	59.81	35.86	12.72	65.91	100	0	P	V
802.11n		4905	47.77	-26.23	74	68.62	34.25	10.34	65.44	300	0	P	H
HT40		7350	42.54	-31.46	74	60.01	35.87	12.72	66.06	300	0	P	H
CH 09		4905	47.91	-26.09	74	68.76	34.25	10.34	65.44	100	0	P	V
2452MHz		7350	42.1	-31.9	74	59.57	35.87	12.72	66.06	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

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)
2.4GHz 802.11n HT40 LF		30	21.98	-18.02	40	28.82	24.8	0.76	32.4	-	-	P	H
		159.98	18.99	-24.51	43.5	33.35	16.2	1.84	32.4	-	-	P	H
		320.03	23.36	-22.64	46	33.83	19.3	2.63	32.4	-	-	P	H
		448.07	23.1	-22.9	46	29.53	22.84	3.13	32.4	-	-	P	H
		565.44	25.75	-20.25	46	28.72	26.1	3.33	32.4	-	-	P	H
		754.59	28.67	-17.33	46	28.77	28.1	4.08	32.28	-	-	P	H
		42.61	21.2	-18.8	40	34.89	17.8	0.91	32.4	-	-	P	V
		64.92	20.08	-19.92	40	39.55	11.8	1.13	32.4	-	-	P	V
		250.19	19.85	-26.15	46	31.75	18.4	2.1	32.4	-	-	P	V
		415.09	21.12	-24.88	46	28.18	22.3	3.04	32.4	-	-	P	V
		566.41	25.52	-20.48	46	28.52	26.06	3.34	32.4	-	-	P	V
		780.78	29.38	-16.62	46	29.29	28.1	4.17	32.18	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	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	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”.

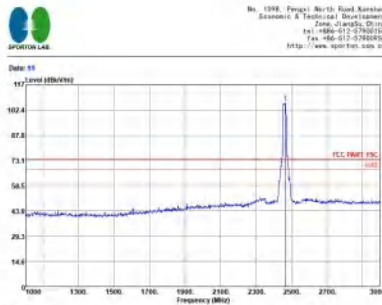
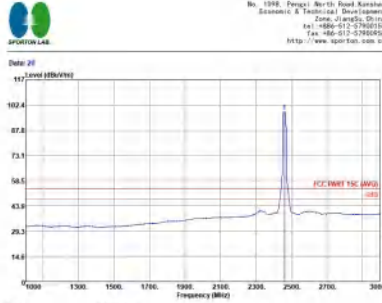


Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location

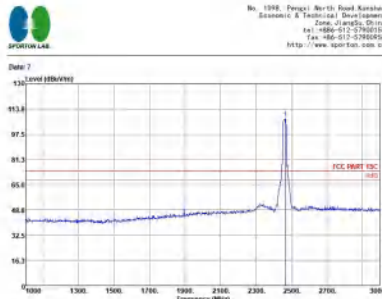
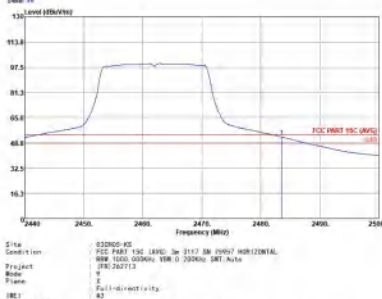
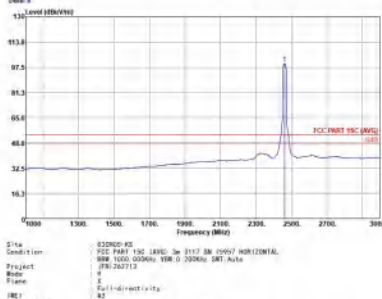


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																													
ANT	802.11g CH11 2462MHz																																													
1	Vertical	Fundamental																																												
Peak	 Site: 020609-KS Condition: FCC PART 15C 3m 3117 BW 10000 VERTICAL Project: 802.11g CH11 2462MHz Band: 5 Plane: 0 Full-directivity: 0 REI: 0 Power: 100mW <table><tr><th>Freq. Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>2462.50</td><td>44.46</td><td>-7.84</td><td>14.03</td><td>43.26</td><td>32.98</td><td>1.20</td><td>84.82</td><td>338</td><td>300</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	2462.50	44.46	-7.84	14.03	43.26	32.98	1.20	84.82	338	300	Peak	VERTICAL	 Site: 020609-KS Condition: FCC PART 15C 3m 3117 BW 10000 VERTICAL Project: 802.11g CH11 2462MHz Band: 5 Plane: 0 Full-directivity: 0 REI: 0 Power: 100mW <table><tr><th>Freq. Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>2462.50</td><td>44.46</td><td>-7.84</td><td>14.03</td><td>43.26</td><td>32.98</td><td>1.22</td><td>84.82</td><td>338</td><td>300</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	2462.50	44.46	-7.84	14.03	43.26	32.98	1.22	84.82	338	300	Peak	VERTICAL
Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase																																						
1	2462.50	44.46	-7.84	14.03	43.26	32.98	1.20	84.82	338	300	Peak	VERTICAL																																		
Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase																																						
1	2462.50	44.46	-7.84	14.03	43.26	32.98	1.22	84.82	338	300	Peak	VERTICAL																																		
Avg.	 Site: 020609-KS Condition: FCC PART 15C 3m 3117 BW 10000 VERTICAL Project: 802.11g CH11 2462MHz Band: 5 Plane: 0 Full-directivity: 0 REI: 0 Power: 100mW <table><tr><th>Freq. Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>2462.50</td><td>44.46</td><td>-4.13</td><td>54.03</td><td>44.46</td><td>32.98</td><td>1.20</td><td>84.82</td><td>338</td><td>300</td><td>Average</td><td>VERTICAL</td></tr></table>	Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	2462.50	44.46	-4.13	54.03	44.46	32.98	1.20	84.82	338	300	Average	VERTICAL	 Site: 020609-KS Condition: FCC PART 15C 3m 3117 BW 10000 VERTICAL Project: 802.11g CH11 2462MHz Band: 5 Plane: 0 Full-directivity: 0 REI: 0 Power: 100mW <table><tr><th>Freq. Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>2462.50</td><td>44.46</td><td>-4.13</td><td>54.03</td><td>44.46</td><td>32.98</td><td>1.22</td><td>84.82</td><td>338</td><td>300</td><td>Average</td><td>VERTICAL</td></tr></table>	Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	2462.50	44.46	-4.13	54.03	44.46	32.98	1.22	84.82	338	300	Average	VERTICAL
Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase																																						
1	2462.50	44.46	-4.13	54.03	44.46	32.98	1.20	84.82	338	300	Average	VERTICAL																																		
Freq. Level	Limit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase																																						
1	2462.50	44.46	-4.13	54.03	44.46	32.98	1.22	84.82	338	300	Average	VERTICAL																																		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	Site: 020000-KS Condition: FCC PART 15C 3e 3117 0M 1000V VERTICAL Project: 802.11n HT20 CH01 2412MHz Model: 802.11n HT20 CH01 2412MHz Plane: E Full-directivity: 0 Power: 100mW Date: 9.9.12 Freq. Level: 100mW Line: 100mW Level Factor: 1.0 Loss Factor: 0.0 A-Pow: 100mW T-Pow: 100mW Remark: 2412 Peak Pol/Phase: VERTICAL	Site: 020000-KS Condition: FCC PART 15C 3e 3117 0M 1000V VERTICAL Project: 802.11n HT20 CH01 2412MHz Model: 802.11n HT20 CH01 2412MHz Plane: E Full-directivity: 0 Power: 100mW Date: 11.9.12 Freq. Level: 100mW Line: 100mW Level Factor: 1.0 Loss Factor: 0.0 A-Pow: 100mW T-Pow: 100mW Remark: 2412 Peak Pol/Phase: VERTICAL
	Site: 020000-KS Condition: FCC PART 15C 3e 3117 0M 1000V VERTICAL Project: 802.11n HT20 CH01 2412MHz Model: 802.11n HT20 CH01 2412MHz Plane: E Full-directivity: 0 Power: 100mW Date: 10.9.12 Freq. Level: 100mW Line: 100mW Level Factor: 1.0 Loss Factor: 0.0 A-Pow: 100mW T-Pow: 100mW Remark: 2412 Average Pol/Phase: VERTICAL	Site: 020000-KS Condition: FCC PART 15C 3e 3117 0M 1000V VERTICAL Project: 802.11n HT20 CH01 2412MHz Model: 802.11n HT20 CH01 2412MHz Plane: E Full-directivity: 0 Power: 100mW Date: 12.9.12 Freq. Level: 100mW Line: 100mW Level Factor: 1.0 Loss Factor: 0.0 A-Pow: 100mW T-Pow: 100mW Remark: 2412 Average Pol/Phase: VERTICAL



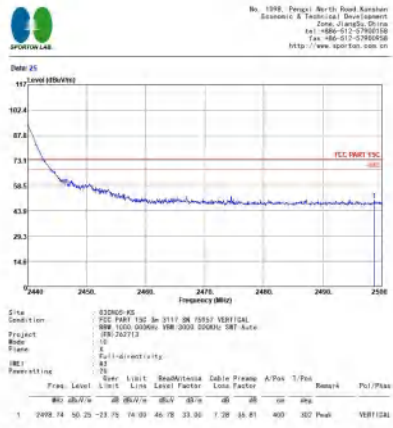
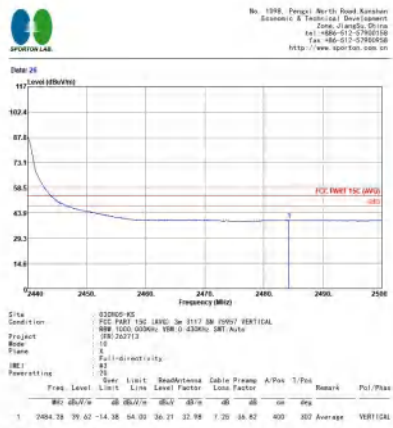
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																											
ANT	802.11n HT20 CH11 2462MHz																																											
1	Horizontal	Fundamental																																										
Peak	The plot shows a wideband signal from 2400 to 2500 MHz. A red line indicates the FCC limit. The signal is centered around 2462 MHz. Site: 020605-KS Condition: FCC PART 15C 30-3117 20 10000 HORIZONTAL Power: 1000.000000 W 3000.000000 dBm Project: FR262713 Mode: E Plane: Z Full-directivity: 0.5 REI: 0.5 PowerSetting: 15 <table><tr><th>Freq. Level</th><th>Unit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>dBm</td><td>47</td><td>-5.44</td><td>16.00</td><td>40.15</td><td>32.98</td><td>1.20</td><td>SA 82</td><td>303</td><td>0 Peak</td><td>HORI/200T</td></tr></table>	Freq. Level	Unit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	dBm	47	-5.44	16.00	40.15	32.98	1.20	SA 82	303	0 Peak	HORI/200T	The plot shows a narrowband signal around 2462 MHz. A red line indicates the FCC limit. The signal is centered around 2462 MHz. Site: 020605-KS Condition: FCC PART 15C 30-3117 20 10000 HORIZONTAL Power: 1000.000000 W 3000.000000 dBm Project: FR262713 Mode: E Plane: Z Full-directivity: 0.5 REI: 0.5 PowerSetting: 15 <table><tr><th>Freq. Level</th><th>Unit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>1</td><td>dBm</td><td>50</td><td>10.00</td><td>16.00</td><td>156.25</td><td>12.96</td><td>1.22</td><td>SA 82</td><td>303</td><td>0 Peak</td><td>HORI/200T</td></tr></table>	Freq. Level	Unit	Line	Level Factor	Loss Factor	A-Pow	T-Pow	Remark	Pol/Phase	1	dBm	50	10.00	16.00	156.25	12.96	1.22	SA 82	303	0 Peak	HORI/200T
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2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak		
Avg.		

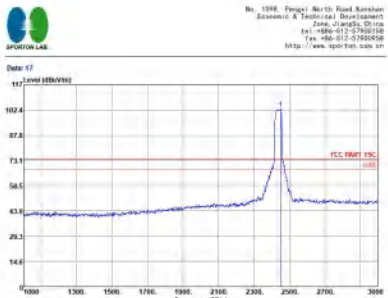
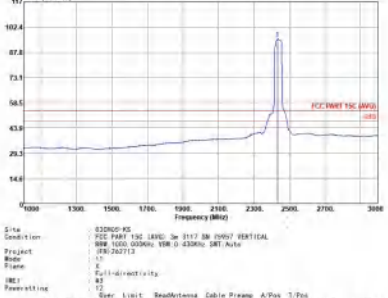


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

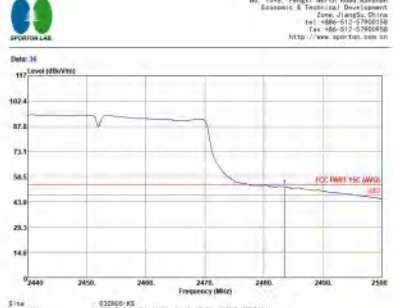
WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT		802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental	
Peak	SPORTEL LAB No. 1098, Pengzi North Road Kunshan Electronic & Technical Development Zone, Jiangsu, China tel: +86-0512-57602158 fax: +86-0512-57602158 http://www.spor-fab.com.cn Date: 9 157 Level (dBm/Hz) 102.4 87.6 72.8 58.0 43.2 28.4 13.6 2320 2340 2360 2380 2400 2420 2440 Frequency (MHz) FCC PART 15C (dB) -85 Site Condition Project Model Plane Roll-directionality Power Power setting 020605-KS FCC PART 15C 3e 3117 06 10507 H0R1ZONTAL 802.11n HT40 CH06 2437MHz SRT-Auto JTR262713 1 E 12 Freq. Level Unit Line Level Factor Loss Factor A-Pol T-Pol Remark Pol/Phase 802.11n dBm/Hz 15 -85.0 -85.0 -85 -85 OK avg 1 2389.40 47.81 -6.19 16.03 44.72 32.86 1.10 36.87 165 350 Peak H0R1ZONT SPORTEL LAB No. 1098, Pengzi North Road Kunshan Electronic & Technical Development Zone, Jiangsu, China tel: +86-0512-57602158 fax: +86-0512-57602158 http://www.spor-fab.com.cn Date: 11 157 Level (dBm/Hz) 102.4 87.6 72.8 58.0 43.2 28.4 13.6 1300 1500 1700 1900 2100 2300 2500 2700 2900 Frequency (MHz) FCC PART 15C (dB) -85 Site Condition Project Model Plane Roll-directionality Power Power setting 020605-KS FCC PART 15C 3e 3117 06 10507 H0R1ZONTAL 802.11n HT40 CH06 2437MHz SRT-Auto JTR262713 1 E 12 Freq. Level Unit Line Level Factor Loss Factor A-Pol T-Pol Remark Pol/Phase 802.11n dBm/Hz 15 -85.0 -85.0 -85 -85 OK avg 1 2438.50 126.16 -31.16 16.03 105.03 22.92 1.16 55.86 165 350 Peak H0R1ZONT		
	Avg.	SPORTEL LAB No. 1098, Pengzi North Road Kunshan Electronic & Technical Development Zone, Jiangsu, China tel: +86-0512-57602158 fax: +86-0512-57602158 http://www.spor-fab.com.cn Date: 9 157 Level (dBm/Hz) 102.4 87.6 72.8 58.0 43.2 28.4 13.6 2320 2340 2360 2380 2400 2420 2440 Frequency (MHz) FCC PART 15C (dB) -85 Site Condition Project Model Plane Roll-directionality Power Power setting 020605-KS FCC PART 15C 3e 3117 06 10507 H0R1ZONTAL 802.11n HT40 CH06 2437MHz SRT-Auto JTR262713 1 E 12 Freq. Level Unit Line Level Factor Loss Factor A-Pol T-Pol Remark Pol/Phase 802.11n dBm/Hz 15 -85.0 -85.0 -85 -85 OK avg 1 2389.56 52.73 -1.27 54.03 49.61 32.88 1.10 34.86 165 350 Average H0R1ZONT SPORTEL LAB No. 1098, Pengzi North Road Kunshan Electronic & Technical Development Zone, Jiangsu, China tel: +86-0512-57602158 fax: +86-0512-57602158 http://www.spor-fab.com.cn Date: 12 157 Level (dBm/Hz) 102.4 87.6 72.8 58.0 43.2 28.4 13.6 1300 1500 1700 1900 2100 2300 2500 2700 2900 Frequency (MHz) FCC PART 15C (dB) -85 Site Condition Project Model Plane Roll-directionality Power Power setting 020605-KS FCC PART 15C 3e 3117 06 10507 H0R1ZONTAL 802.11n HT40 CH06 2437MHz SRT-Auto JTR262713 1 E 12 Freq. Level Unit Line Level Factor Loss Factor A-Pol T-Pol Remark Pol/Phase 802.11n dBm/Hz 15 -85.0 -85.0 -85 -85 OK avg 1 2438.50 97.49 43.48 54.03 94.26 22.92 1.16 55.86 165 350 Average H0R1ZONT	

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site: 030609-KS Condition: FCC PART 15C 3117 8W 100W2 H0R120M1AL Power: 1000 000000 1000 000000 DRT-Auto Project: 262713 Date: 11/11/13 Plane: E Polarization: H Frequency: 2400~2483.5MHz 100.0 97.8 95.6 93.4 91.2 89.0 86.8 84.6 82.4 80.2 78.0 75.8 73.6 71.4 69.2 67.0 64.8 62.6 60.4 58.2 56.0 53.8 51.6 49.4 47.2 45.0 42.8 40.6 38.4 36.2 34.0 31.8 29.6 27.4 25.2 23.0 20.8 18.6 16.4 14.2 12.0 9.8 7.6 5.4 3.2 1.0 -1.2 -3.4 -5.6 -7.8 -10.0 -12.2 -14.4 -16.6 -18.8 -21.0 -23.2 -25.4 -27.6 -29.8 -32.0 -34.2 -36.4 -38.6 -40.8 -43.0 -45.2 -47.4 -49.6 -51.8 -54.0 -56.2 -58.4 -60.6 -62.8 -65.0 -67.2 -69.4 -71.6 -73.8 -76.0 -78.2 -80.4 -82.6 -84.8 -87.0 -89.2 -91.4 -93.6 -95.8 -98.0 -100.2 -102.4 -104.6 -106.8 -109.0 -111.2 -113.4 -115.6 -117.8 -120.0 -122.2 -124.4 -126.6 -128.8 -131.0 -133.2 -135.4 -137.6 -139.8 -142.0 -144.2 -146.4 -148.6 -150.8 -153.0 -155.2 -157.4 -159.6 -161.8 -164.0 -166.2 -168.4 -170.6 -172.8 -175.0 -177.2 -179.4 -181.6 -183.8 -186.0 -188.2 -190.4 -192.6 -194.8 -197.0 -199.2 -201.4 -203.6 -205.8 -208.0 -210.2 -212.4 -214.6 -216.8 -219.0 -221.2 -223.4 -225.6 -227.8 -230.0 -232.2 -234.4 -236.6 -238.8 -241.0 -243.2 -245.4 -247.6 -249.8 -252.0 -254.2 -256.4 -258.6 -260.8 -263.0 -265.2 -267.4 -269.6 -271.8 -274.0 -276.2 -278.4 -280.6 -282.8 -285.0 -287.2 -289.4 -291.6 -293.8 -296.0 -298.2 -300.4 -302.6 -304.8 -307.0 -309.2 -311.4 -313.6 -315.8 -318.0 -320.2 -322.4 -324.6 -326.8 -329.0 -331.2 -333.4 -335.6 -337.8 -340.0 -342.2 -344.4 -346.6 -348.8 -351.0 -353.2 -355.4 -357.6 -359.8 -362.0 -364.2 -366.4 -368.6 -370.8 -373.0 -375.2 -377.4 -379.6 -381.8 -384.0 -386.2 -388.4 -390.6 -392.8 -395.0 -397.2 -399.4 -401.6 -403.8 -406.0 -408.2 -410.4 -412.6 -414.8 -417.0 -419.2 -421.4 -423.6 -425.8 -428.0 -430.2 -432.4 -434.6 -436.8 -439.0 -441.2 -443.4 -445.6 -447.8 -450.0 -452.2 -454.4 -456.6 -458.8 -461.0 -463.2 -465.4 -467.6 -469.8 -472.0 -474.2 -476.4 -478.6 -480.8 -483.0 -485.2 -487.4 -489.6 -491.8 -494.0 -496.2 -498.4 -500.6 -502.8 -505.0 -507.2 -509.4 -511.6 -513.8 -516.0 -518.2 -520.4 -522.6 -524.8 -527.0 -529.2 -531.4 -533.6 -535.8 -538.0 -540.2 -542.4 -544.6 -546.8 -549.0 -551.2 -553.4 -555.6 -557.8 -560.0 -562.2 -564.4 -566.6 -568.8 -571.0 -573.2 -575.4 -577.6 -579.8 -582.0 -584.2 -586.4 -588.6 -590.8 -593.0 -595.2 -597.4 -599.6 -601.8 -604.0 -606.2 -608.4 -610.6 -612.8 -615.0 -617.2 -619.4 -621.6 -623.8 -626.0 -628.2 -630.4 -632.6 -634.8 -637.0 -639.2 -641.4 -643.6 -645.8 -648.0 -650.2 -652.4 -654.6 -656.8 -659.0 -661.2 -663.4 -665.6 -667.8 -670.0 -672.2 -674.4 -676.6 -678.8 -681.0 -683.2 -685.4 -687.6 -689.8 -692.0 -694.2 -696.4 -698.6 -700.8 -703.0 -705.2 -707.4 -709.6 -711.8 -714.0 -716.2 -718.4 -720.6 -722.8 -725.0 -727.2 -729.4 -731.6 -733.8 -736.0 -738.2 -740.4 -742.6 -744.8 -747.0 -749.2 -751.4 -753.6 -755.8 -758.0 -760.2 -762.4 -764.6 -766.8 -769.0 -771.2 -773.4 -775.6 -777.8 -780.0 -782.2 -784.4 -786.6 -788.8 -791.0 -793.2 -795.4 -797.6 -799.8 -802.0 -804.2 -806.4 -808.6 -810.8 -813.0 -815.2 -817.4 -819.6 -821.8 -824.0 -826.2 -828.4 -830.6 -832.8 -835.0 -837.2 -839.4 -841.6 -843.8 -846.0 -848.2 -850.4 -852.6 -854.8 -857.0 -859.2 -861.4 -863.6 -865.8 -868.0 -870.2 -872.4 -874.6 -876.8 -879.0 -881.2 -883.4 -885.6 -887.8 -890.0 -892.2 -894.4 -896.6 -898.8 -901.0 -903.2 -905.4 -907.6 -909.8 -912.0 -914.2 -916.4 -918.6 -920.8 -923.0 -925.2 -927.4 -929.6 -931.8 -934.0 -936.2 -938.4 -940.6 -942.8 -945.0 -947.2 -949.4 -951.6 -953.8 -956.0 -958.2 -960.4 -962.6 -964.8 -967.0 -969.2 -971.4 -973.6 -975.8 -978.0 -980.2 -982.4 -984.6 -986.8 -989.0 -991.2 -993.4 -995.6 -997.8 -1000.0	Left blank
Avg.	 Site: 030609-KS Condition: FCC PART 15C 3117 8W 100W2 H0R120M1AL Power: 1000 000000 1000 000000 DRT-Auto Project: 262713 Date: 11/11/13 Plane: E Polarization: H Frequency: 2400~2483.5MHz 100.0 97.8 95.6 93.4 91.2 89.0 86.8 84.6 82.4 80.2 78.0 75.8 73.6 71.4 69.2 67.0 64.8 62.6 60.4 58.2 56.0 53.8 51.6 49.4 47.2 45.0 42.8 40.6 38.4 36.2 34.0 31.8 29.6 27.4 25.2 23.0 20.8 18.6 16.4 14.2 12.0 9.8 7.6 5.4 3.2 1.0 -1.2 -3.4 -5.6 -7.8 -10.0 -12.2 -14.4 -16.6 -18.8 -21.0 -23.2 -25.4 -27.6 -29.8 -32.0 -34.2 -36.4 -38.6 -40.8 -43.0 -45.2 -47.4 -49.6 -51.8 -54.0 -56.2 -58.4 -60.6 -62.8 -65.0 -67.2 -69.4 -71.6 -73.8 -76.0 -78.2 -80.4 -82.6 -84.8 -87.0 -89.2 -91.4 -93.6 -95.8 -98.0 -100.2 -102.4 -104.6 -106.8 -109.0 -111.2 -113.4 -115.6 -117.8 -120.0 -122.2 -124.4 -126.6 -128.8 -131.0 -133.2 -135.4 -137.6 -139.8 -142.0 -144.2 -146.4 -148.6 -150.8 -153.0 -155.2 -157.4 -159.6 -161.8 -164.0 -166.2 -168.4 -170.6 -172.8 -175.0 -177.2 -179.4 -181.6 -183.8 -186.0 -188.2 -190.4 -192.6 -194.8 -197.0 -199.2 -201.4 -203.6 -205.8 -208.0 -210.2 -212.4 -214.6 -216.8 -219.0 -221.2 -223.4 -225.6 -227.8 -230.0 -232.2 -234.4 -236.6 -238.8 -241.0 -243.2 -245.4 -247.6 -249.8 -252.0 -254.2 -256.4 -258.6 -260.8 -263.0 -265.2 -267.4 -269.6 -271.8 -274.0 -276.2 -278.4 -280.6 -282.8 -285.0 -287.2 -289.4 -291.6 -293.8 -296.0 -298.2 -300.4 -302.6 -304.8 -307.0 -309.2 -311.4 -313.6 -315.8 -318.0 -320.2 -322.4 -324.6 -326.8 -329.0 -331.2 -333.4 -335.6 -337.8 -340.0 -342.2 -344.4 -346.6 -348.8 -351.0 -353.2 -355.4 -357.6 -359.8 -362.0 -364.2 -366.4 -368.6 -370.8 -373.0 -375.2 -377.4 -379.6 -381.8 -384.0 -386.2 -388.4 -390.6 -392.8 -395.0 -397.2 -399.4 -401.6 -403.8 -406.0 -408.2 -410.4 -412.6 -414.8 -417.0 -419.2 -421.4 -423.6 -425.8 -428.0 -430.2 -432.4 -434.6 -436.8 -439.0 -441.2 -443.4 -445.6 -447.8 -450.0 -452.2 -454.4 -456.6 -458.8 -461.0 -463.2 -465.4 -467.6 -469.8 -472.0 -474.2 -476.4 -478.6 -480.8 -483.0 -485.2 -487.4 -489.6 -491.8 -494.0 -496.2 -498.4 -500.6 -502.8 -505.0 -507.2 -509.4 -511.6 -513.8 -516.0 -518.2 -520.4 -522.6 -524.8 -527.0 -529.2 -531.4 -533.6 -535.8 -538.0 -540.2 -542.4 -544.6 -546.8 -549.0 -551.2 -553.4 -555.6 -557.8 -560.0 -562.2 -564.4 -566.6 -568.8 -571.0 -573.2 -575.4 -577.6 -579.8 -582.0 -584.2 -586.4 -588.6 -590.8 -593.0 -595.2 -597.4 -599.6 -601.8 -604.0 -606.2 -608.4 -610.6 -612.8 -615.0 -617.2 -619.4 -621.6 -623.8 -626.0 -628.2 -630.4 -632.6 -634.8 -637.0 -639.2 -641.4 -643.6 -645.8 -648.0 -650.2 -652.4 -654.6 -656.8 -659.0 -661.2 -663.4 -665.6 -667.8 -670.0 -672.2 -674.4 -676.6 -678.8 -681.0 -683.2 -685.4 -687.6 -689.8 -692.0 -694.2 -696.4 -698.6 -700.8 -703.0 -705.2 -707.4 -709.6 -711.8 -714.0 -716.2 -718.4 -720.6 -722.8 -725.0 -727.2 -729.4 -731.6 -733.8 -736.0 -738.2 -740.4 -742.6 -744.8 -747.0 -749.2 -751.4 -753.6 -755.8 -758.0 -760.2 -762.4 -764.6 -766.8 -769.0 -771.2 -773.4 -775.6 -777.8 -780.0 -782.2 -784.4 -786.6 -788.8 -791.0 -793.2 -795.4 -797.6 -799.8 -802.0 -804.2 -806.4 -808.6 -810.8 -813.0 -815.2 -817.4 -819.6 -821.8 -824.0 -826.2 -828.4 -830.6 -832.8 -835.0 -837.2 -839.4 -841.6 -843.8 -846.0 -848.2 -850.4 -852.6 -854.8 -857.0 -859.2 -861.4 -863.6 -865.8 -868.0 -870.2 -872.4 -874.6 -876.8 -879.0 -881.2 -883.4 -885.6 -887.8 -890.0 -892.2 -894.4 -896.6 -898.8 -901.0 -903.2 -905.4 -907.6 -909.8 -912.0 -914.2 -916.4 -918.6 -920.8 -923.0 -925.2 -927.4 -929.6 -931.8 -934.0 -936.2 -938.4 -940.6 -942.8 -945.0 -947.2 -949.4 -951.6 -953.8 -956.0 -958.2 -960.4 -962.6 -964.8 -967.0 -969.2 -971.4 -973.6 -975.8 -978.0 -980.2 -982.4 -984.6 -986.8 -989.0 -991.2 -993.4 -995.6 -997.8 -1000.0	Left blank

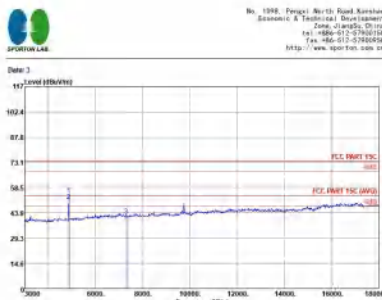
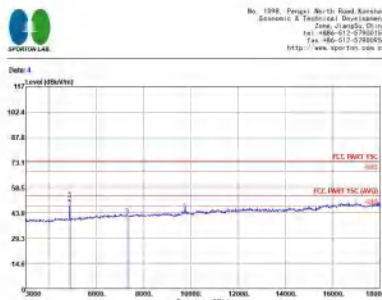


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site: 020605-KS Condition: FCC PART 15C 3e 3117 3M 100W VERTICAL Power: 1000.000000 WRM 3000.000000 DBT Auto Project: JPN262713 Band: 11 Plane: E Full-directivity: 6.2 Polarization: 12 Power: 100.000000 WRM 3000.000000 DBT Auto Freq. Level: 100.000000 WRM 3000.000000 DBT Auto 1 2380.40 65.00 -8.90 16.00 41.90 32.86 1.10 66.87 382 280 Peak VERTICAL	 Site: 020605-KS Condition: FCC PART 15C 3e 3117 3M 100W VERTICAL Power: 1000.000000 WRM 3000.000000 DBT Auto Project: JPN262713 Band: 11 Plane: E Full-directivity: 6.2 Polarization: 12 Power: 100.000000 WRM 3000.000000 DBT Auto Freq. Level: 100.000000 WRM 3000.000000 DBT Auto 1 2380.40 65.00 -8.90 16.00 41.90 32.86 1.10 66.87 382 280 Peak VERTICAL
Avg.	 Site: 020605-KS Condition: FCC PART 15C 3e 3117 3M 100W VERTICAL Power: 1000.000000 WRM 3000.000000 DBT Auto Project: JPN262713 Band: 11 Plane: E Full-directivity: 6.2 Polarization: 12 Power: 100.000000 WRM 3000.000000 DBT Auto Freq. Level: 100.000000 WRM 3000.000000 DBT Auto 1 2380.40 65.00 -8.90 16.00 41.90 32.86 1.10 66.87 382 280 Average VERTICAL	 Site: 020605-KS Condition: FCC PART 15C 3e 3117 3M 100W VERTICAL Power: 1000.000000 WRM 3000.000000 DBT Auto Project: JPN262713 Band: 11 Plane: E Full-directivity: 6.2 Polarization: 12 Power: 100.000000 WRM 3000.000000 DBT Auto Freq. Level: 100.000000 WRM 3000.000000 DBT Auto 1 2380.40 65.00 -8.90 16.00 41.90 32.86 1.10 66.87 382 280 Average VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site: 1000, Fengqi North Road, Kunshan Condition: 802.11n HT40 CH09 2452MHz - R Project: 20120713 Mode: 12 Plane: 1 Polarization: 1 Antenna: 1 Power: 100mW Freq. Level: 100mW Line: 100mW Level Factor: 100mW Loss Factor: 100mW A/P: 100mW T/F: 100mW Measure: 100mW Pol/Phase: 100mW	Left blank
Avg.	 Site: 1000, Fengqi North Road, Kunshan Condition: 802.11n HT40 CH09 2452MHz - R Project: 20120713 Mode: 12 Plane: 1 Polarization: 1 Antenna: 1 Power: 100mW Freq. Level: 100mW Line: 100mW Level Factor: 100mW Loss Factor: 100mW A/P: 100mW T/F: 100mW Measure: 100mW Pol/Phase: 100mW	Left blank



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																	
ANT	802.11b CH06 2437MHz																																																																																	
1	Horizontal	Vertical																																																																																
Peak Avg.	 Site: 020000-KS Condition: FCC PART 15C 30-1117 0W 10000 VERICAL Power: 1000.000000 WRM 0000.000000 SMT-Auto Project: FR262713 Mode: Z Plane: Z Full-duplex: ity BET: 62 Power: 11.0 Date: 3 <table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>Bandwidth</th><th>Cable</th><th>Power</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Peak</td></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Average</td></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Peak</td></tr></table>	Freq	Level	Unit	Bandwidth	Cable	Power	A-Pow	T-Pow	Remark	Pol/Phase	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Average	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak	 Site: 020000-KS Condition: FCC PART 15C 30-1117 0W 10000 VERICAL Power: 1000.000000 WRM 0000.000000 SMT-Auto Project: FR262713 Mode: Z Plane: Z Full-duplex: ity BET: 62 Power: 11.0 Date: 4 <table><tr><th>Freq</th><th>Level</th><th>Unit</th><th>Bandwidth</th><th>Cable</th><th>Power</th><th>A-Pow</th><th>T-Pow</th><th>Remark</th><th>Pol/Phase</th></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Peak</td></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Average</td></tr><tr><td>2400.00</td><td>-46.49</td><td>dBm</td><td>10</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>100</td><td>Peak</td></tr></table>	Freq	Level	Unit	Bandwidth	Cable	Power	A-Pow	T-Pow	Remark	Pol/Phase	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Average	2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak
	Freq	Level	Unit	Bandwidth	Cable	Power	A-Pow	T-Pow	Remark	Pol/Phase																																																																								
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak																																																																									
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Average																																																																									
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak																																																																									
Freq	Level	Unit	Bandwidth	Cable	Power	A-Pow	T-Pow	Remark	Pol/Phase																																																																									
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak																																																																									
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Average																																																																									
2400.00	-46.49	dBm	10	0.00	0.00	0.00	0.00	100	Peak																																																																									

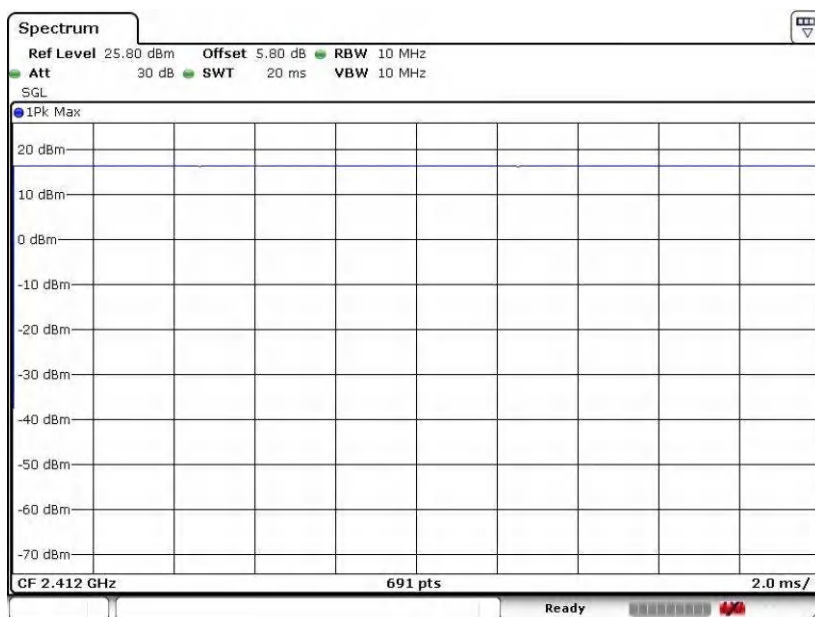
Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																																									
ANT	802.11n HT40 LF																																																																																																																																																																																																									
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QP / Peak	 Horizontal Spectrum Plot showing Level (dBm) vs Frequency (MHz). The plot displays a blue line representing the signal level across the 2400-2483.5 MHz range. A red line indicates the FCC PMWT 15G limit. The signal level is generally below the limit, with some peaks around 2410 MHz and 2425 MHz. Site: 032045-KS Location: FCC PMWT 15G 3M 300, 6.1110, 09913, H0R120N1AL Name: H0R120, 000000, H0R 200, 000000, H0R Auto Project: 2013-02-21 Date: 12 Full-Direction: V (V) Plot: 40 <table> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th><th>26</th><th>27</th><th>28</th><th>29</th><th>30</th><th>31</th><th>32</th><th>33</th><th>34</th><th>35</th><th>36</th><th>37</th><th>38</th><th>39</th><th>40</th><th>41</th><th>42</th><th>43</th><th>44</th><th>45</th><th>46</th><th>47</th><th>48</th><th>49</th><th>50</th><th>51</th><th>52</th><th>53</th><th>54</th><th>55</th><th>56</th><th>57</th><th>58</th><th>59</th><th>60</th><th>61</th><th>62</th><th>63</th><th>64</th><th>65</th><th>66</th><th>67</th><th>68</th><th>69</th><th>70</th><th>71</th><th>72</th><th>73</th><th>74</th><th>75</th><th>76</th><th>77</th><th>78</th><th>79</th><th>80</th><th>81</th><th>82</th><th>83</th><th>84</th><th>85</th><th>86</th><th>87</th><th>88</th><th>89</th><th>90</th><th>91</th><th>92</th><th>93</th><th>94</th><th>95</th><th>96</th><th>97</th><th>98</th><th>99</th><th>100</th></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	 Vertical Spectrum Plot showing Level (dBm) vs Frequency (MHz). The plot displays a blue line representing the signal level across the 2400-2483.5 MHz range. A red line indicates the FCC PMWT 15G limit. The signal level is generally below the limit, with some peaks around 2410 MHz and 2425 MHz. Site: 032045-KS Location: FCC PMWT 15G 3M 300, 6.1110, 09913, V0R120N1AL Name: H0R120, 000000, H0R 200, 000000, H0R Auto Project: 2013-02-21 Date: 12 Full-Direction: V (V) Plot: 40 <table> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th><th>24</th><th>25</th><th>26</th><th>27</th><th>28</th><th>29</th><th>30</th><th>31</th><th>32</th><th>33</th><th>34</th><th>35</th><th>36</th><th>37</th><th>38</th><th>39</th><th>40</th><th>41</th><th>42</th><th>43</th><th>44</th><th>45</th><th>46</th><th>47</th><th>48</th><th>49</th><th>50</th><th>51</th><th>52</th><th>53</th><th>54</th><th>55</th><th>56</th><th>57</th><th>58</th><th>59</th><th>60</th><th>61</th><th>62</th><th>63</th><th>64</th><th>65</th><th>66</th><th>67</th><th>68</th><th>69</th><th>70</th><th>71</th><th>72</th><th>73</th><th>74</th><th>75</th><th>76</th><th>77</th><th>78</th><th>79</th><th>80</th><th>81</th><th>82</th><th>83</th><th>84</th><th>85</th><th>86</th><th>87</th><th>88</th><th>89</th><th>90</th><th>91</th><th>92</th><th>93</th><th>94</th><th>95</th><th>96</th><th>97</th><th>98</th><th>99</th><th>100</th></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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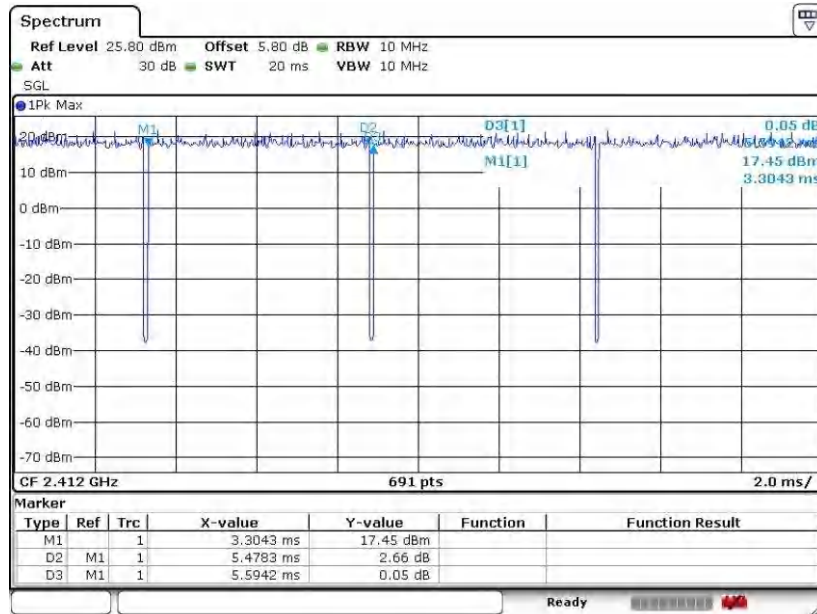
Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	97.93	5.478	0.183	0.2KHz
802.11n HT20	97.77	5.073	0.197	0.2KHz
802.11n HT40	96.05	2.464	0.406	0.43KHz

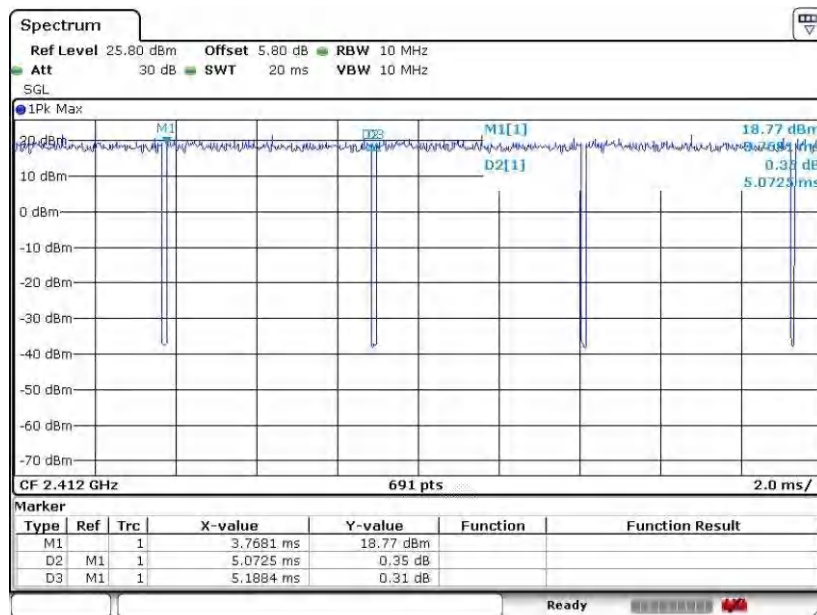
802.11b



802.11g



802.11n HT20



802.11n HT40

