



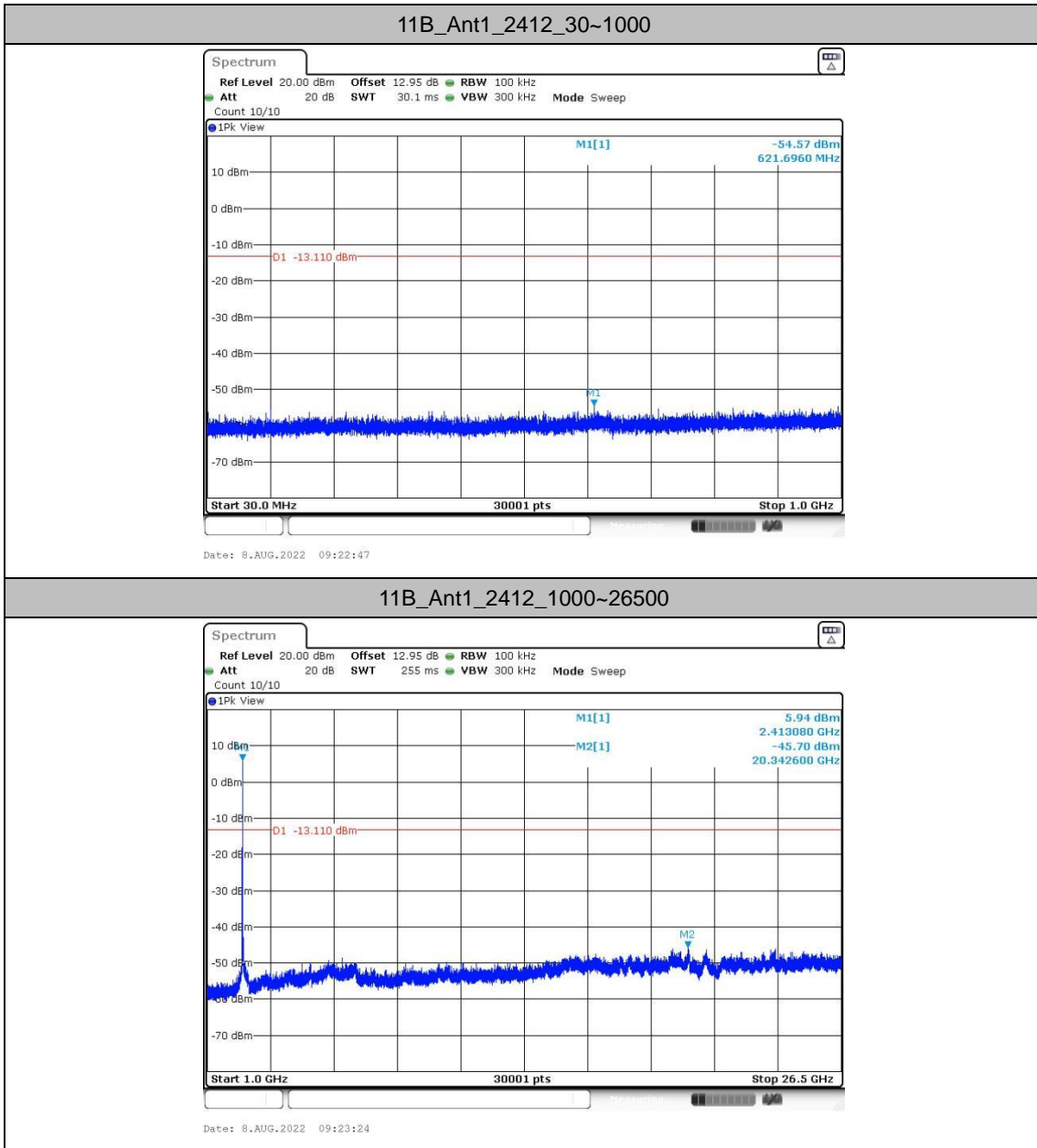
Conducted Spurious Emission

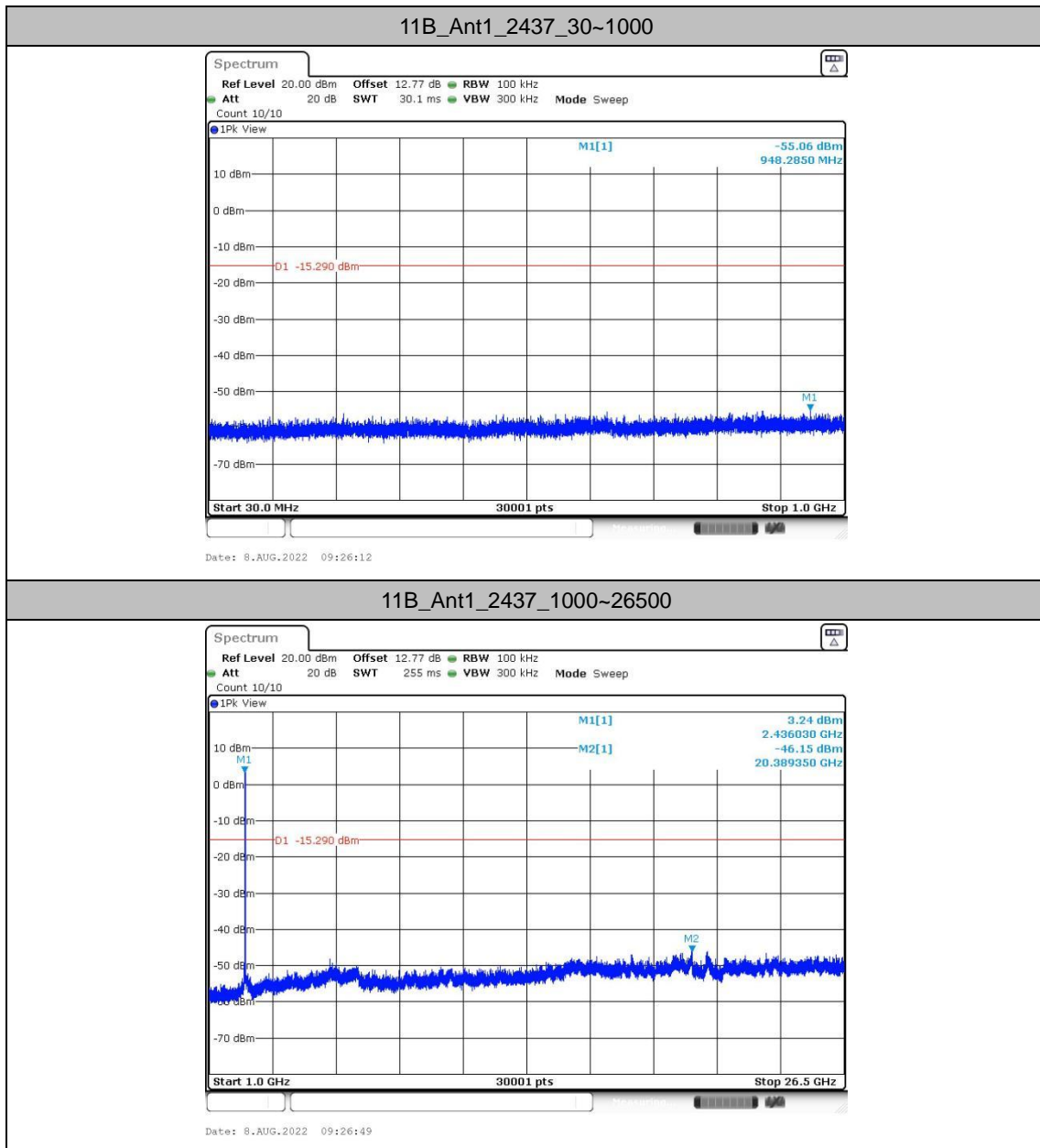
Test Result

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



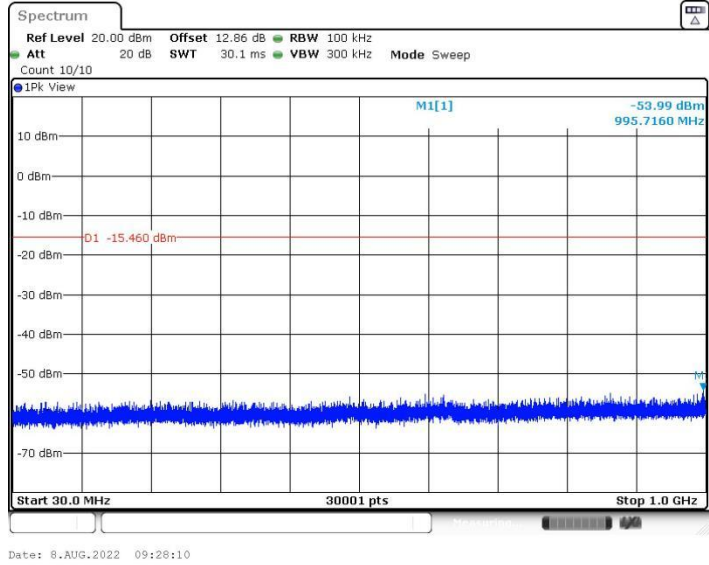
Test Graphs



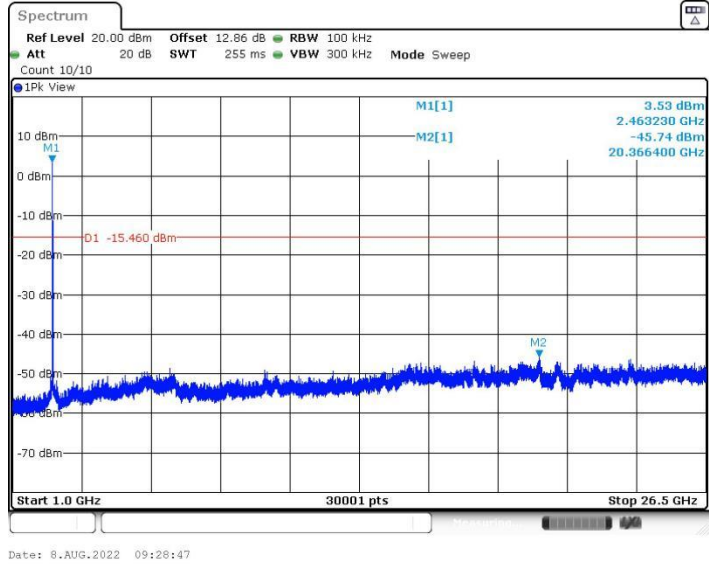


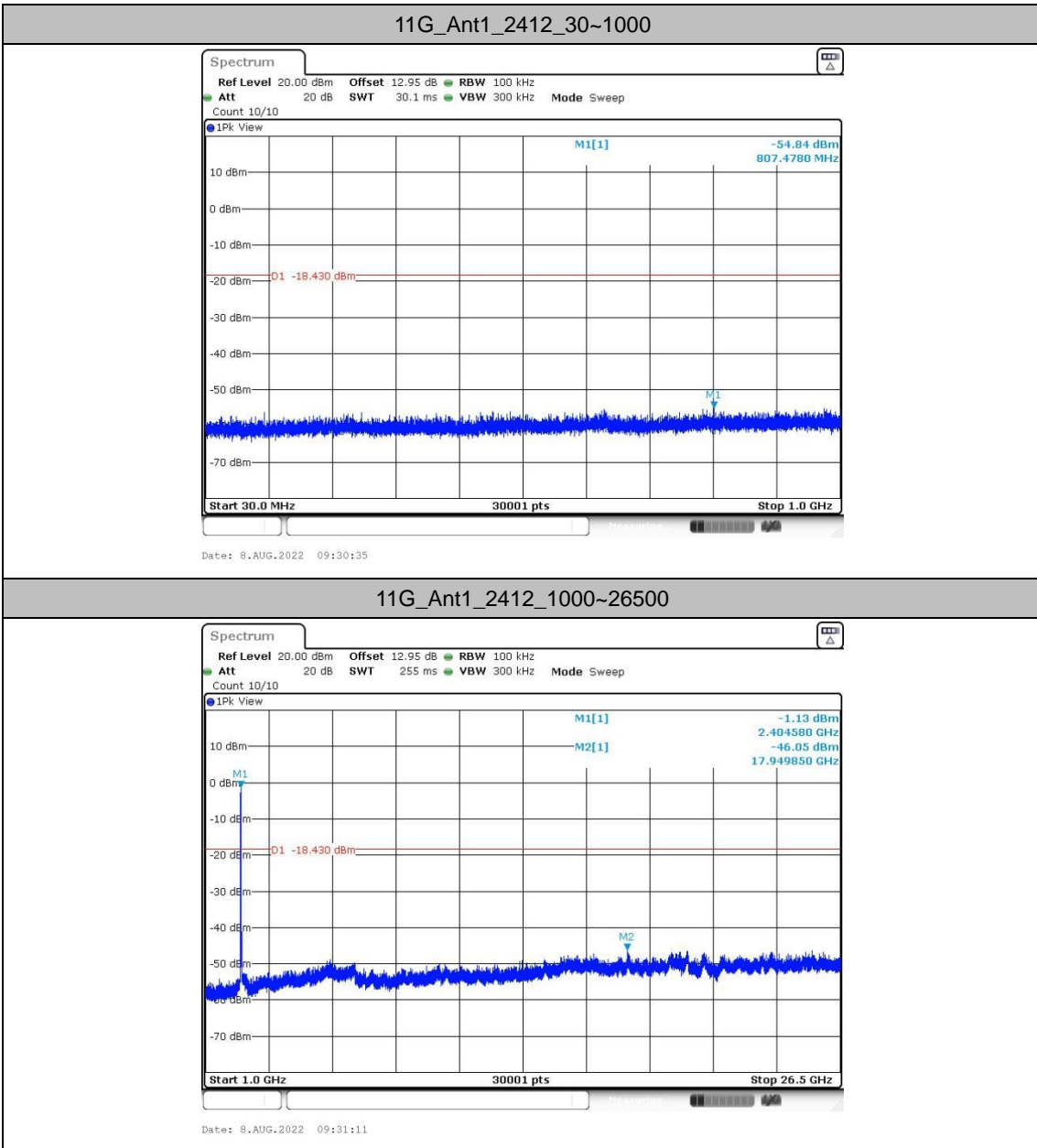


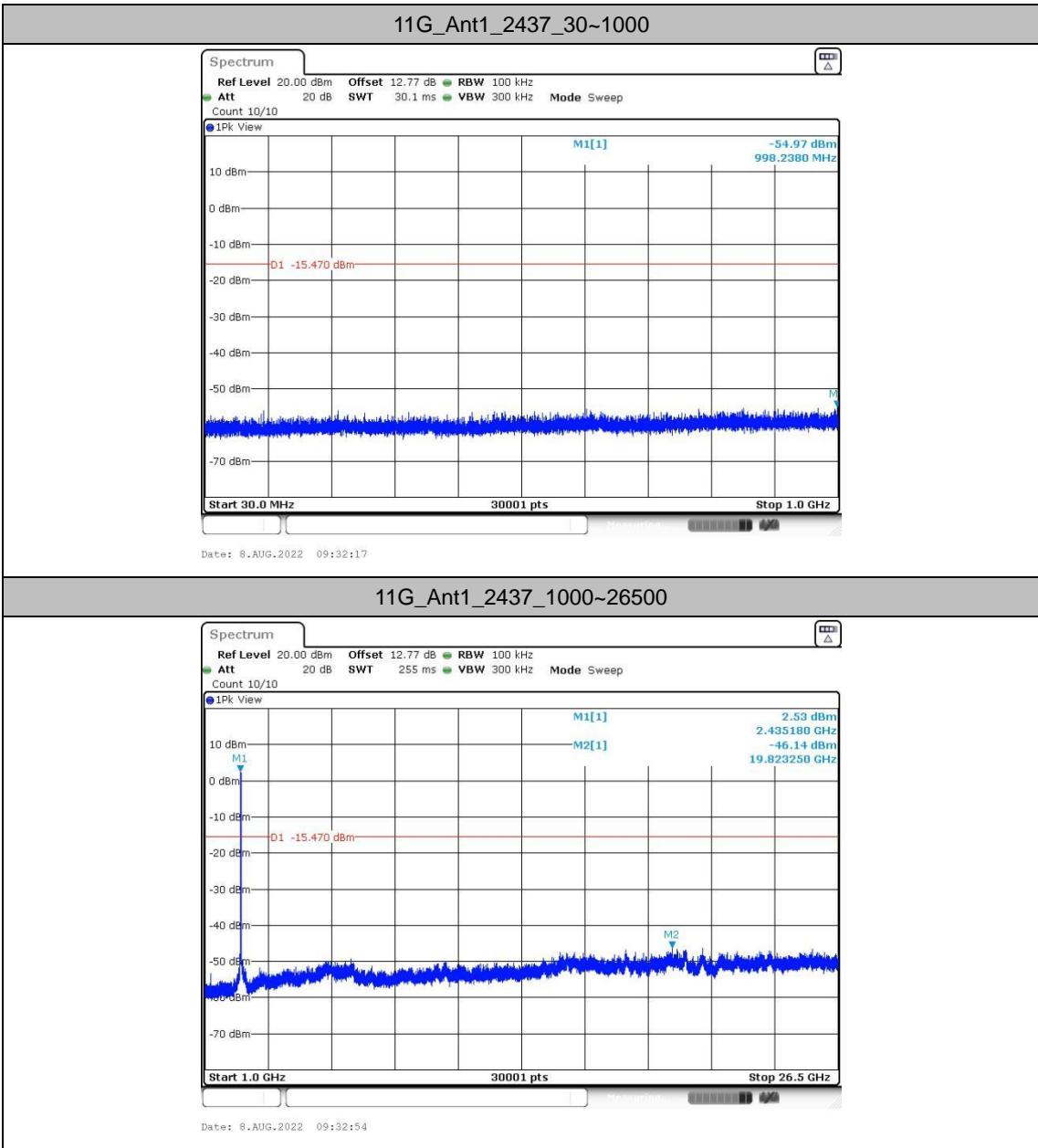
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

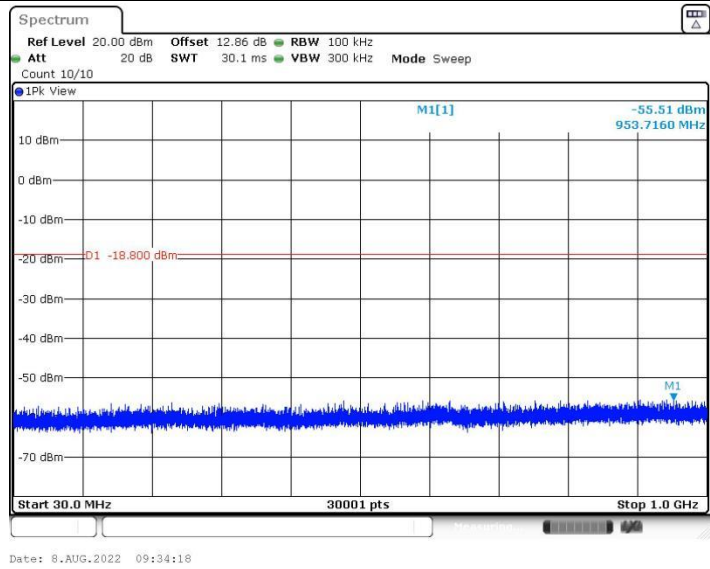




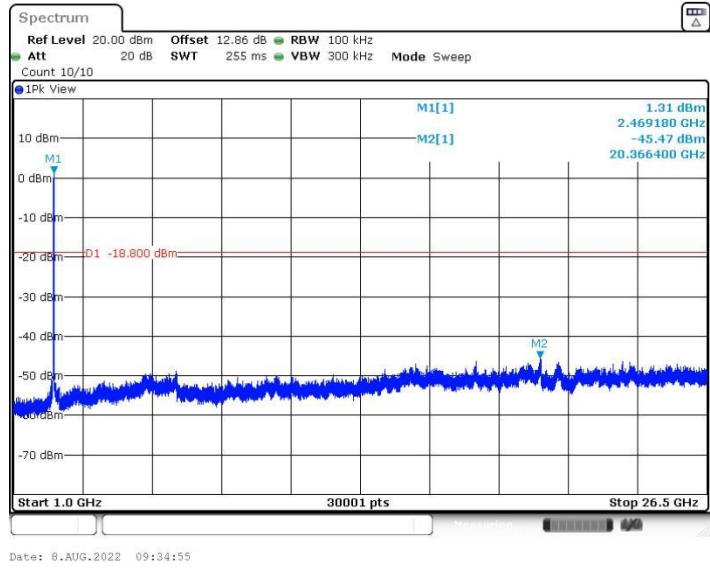


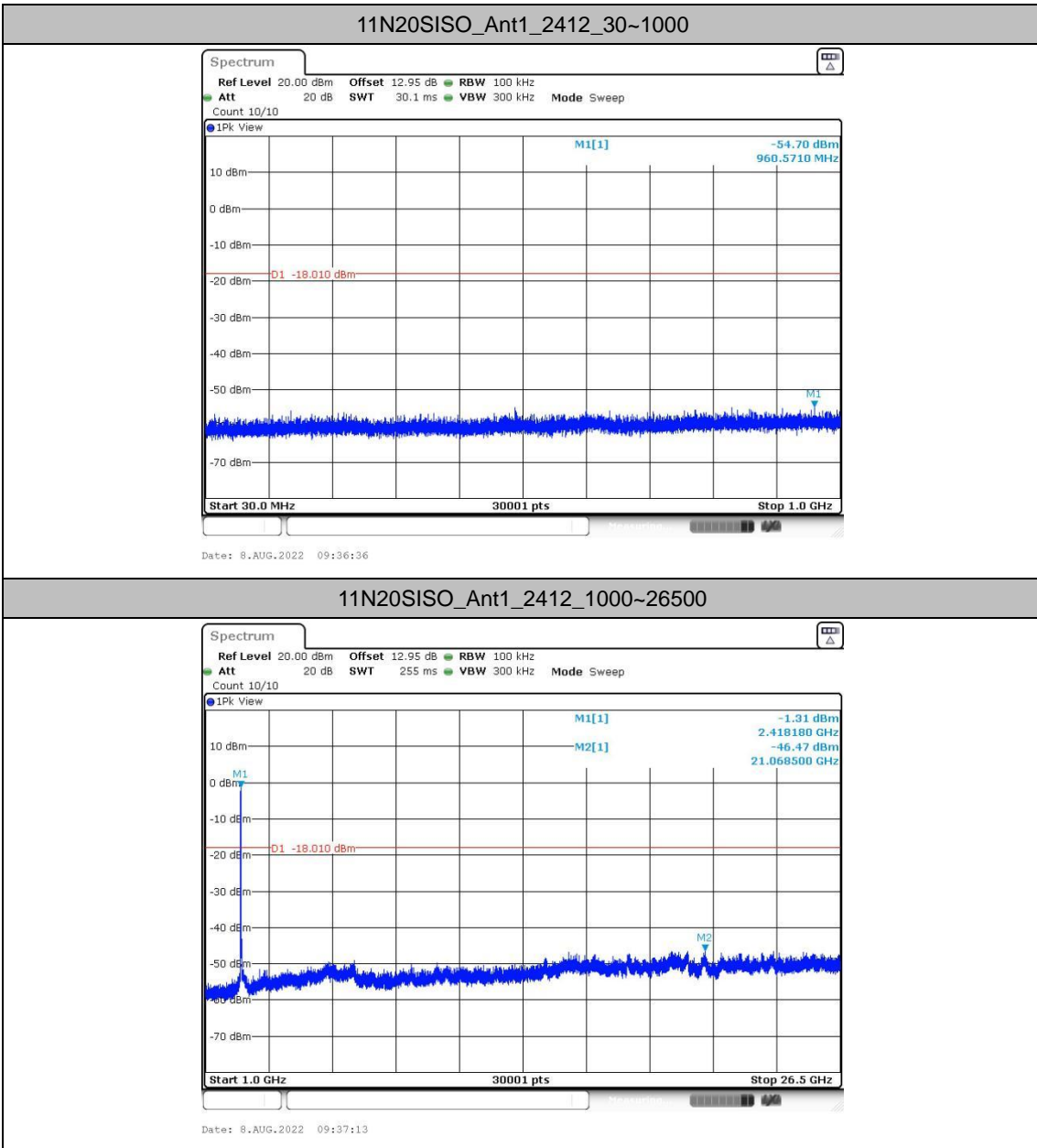


11G_Ant1_2462_30~1000



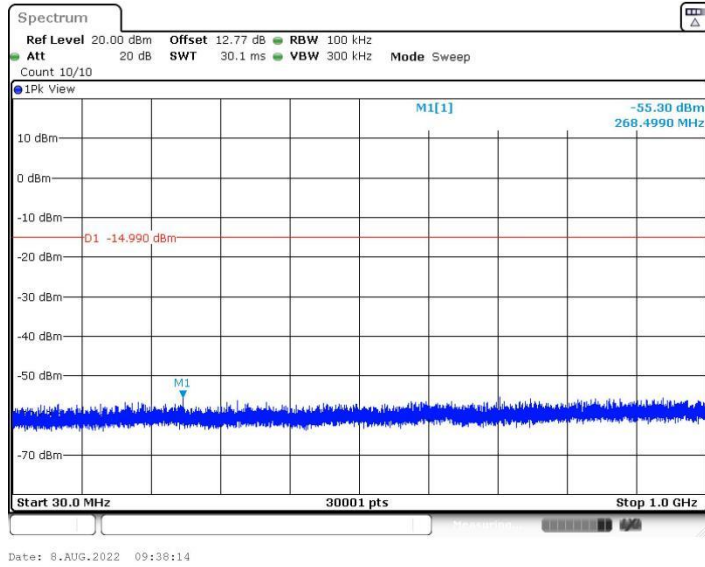
11G_Ant1_2462_1000~26500



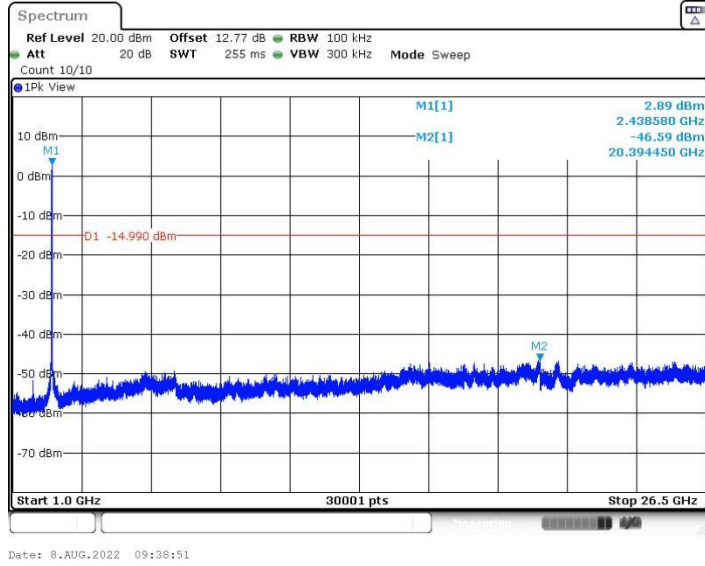




11N20SISO_Ant1_2437_30~1000

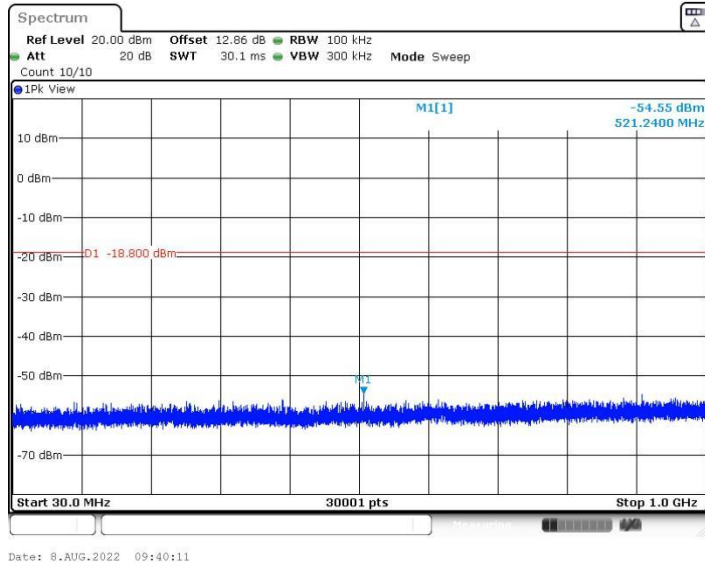


11N20SISO_Ant1_2437_1000~26500

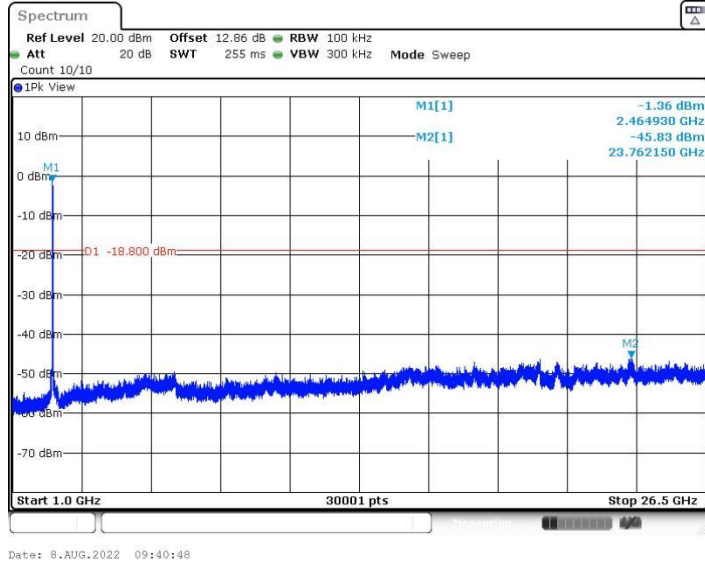




11N20SISO_Ant1_2462_30~1000

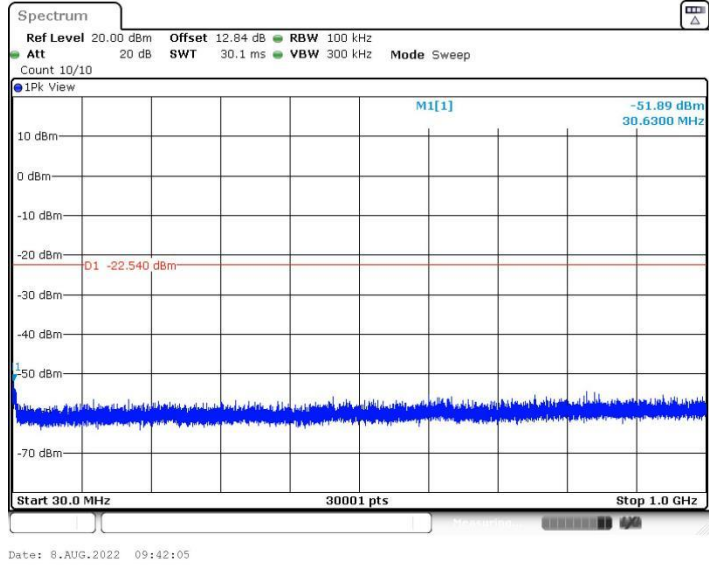


11N20SISO_Ant1_2462_1000~26500

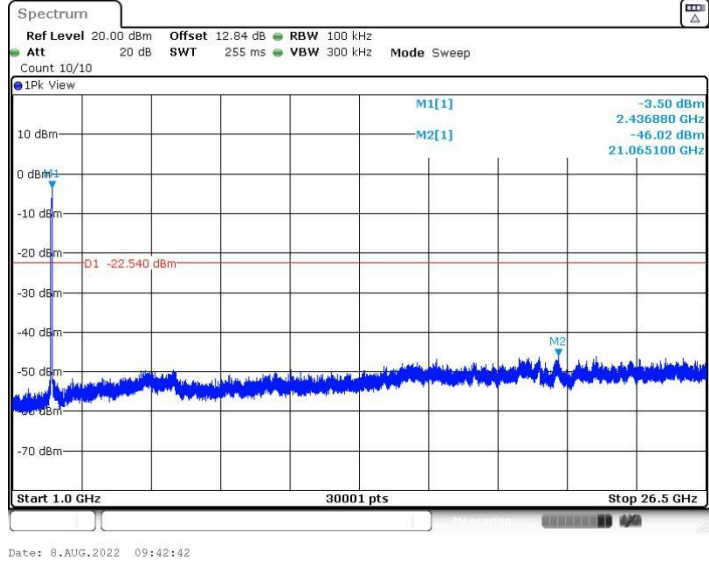




11N40SISO_Ant1_2422_30~1000

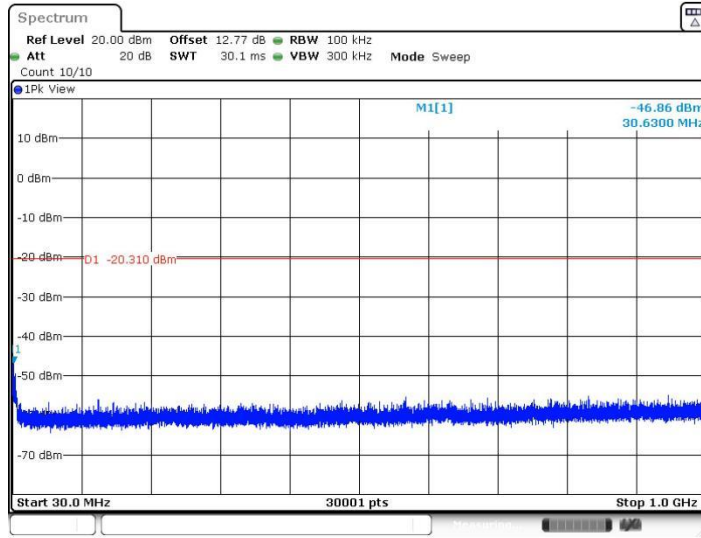


11N40SISO_Ant1_2422_1000~26500

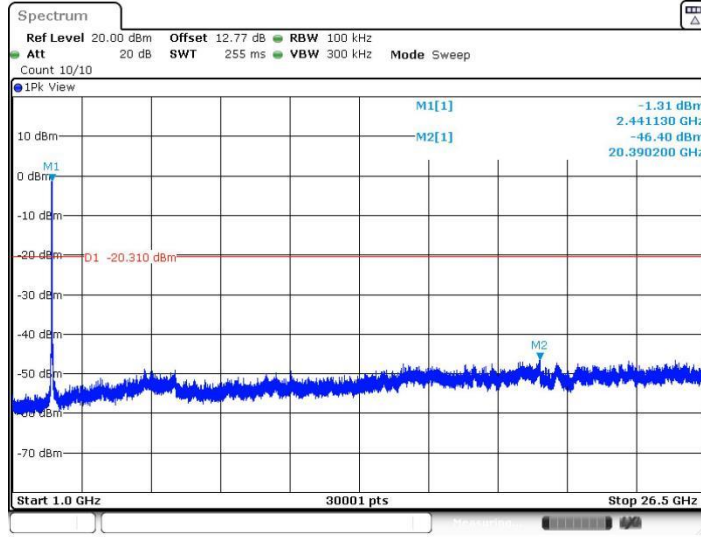




11N40SISO_Ant1_2437_30~1000

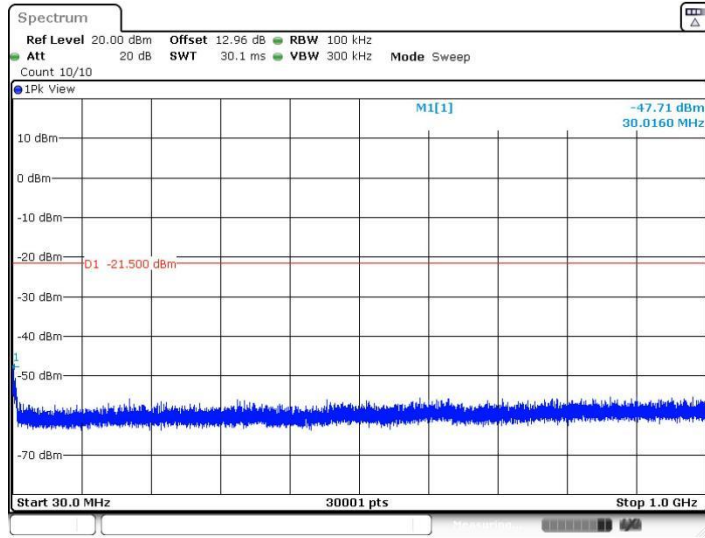


11N40SISO_Ant1_2437_1000~26500

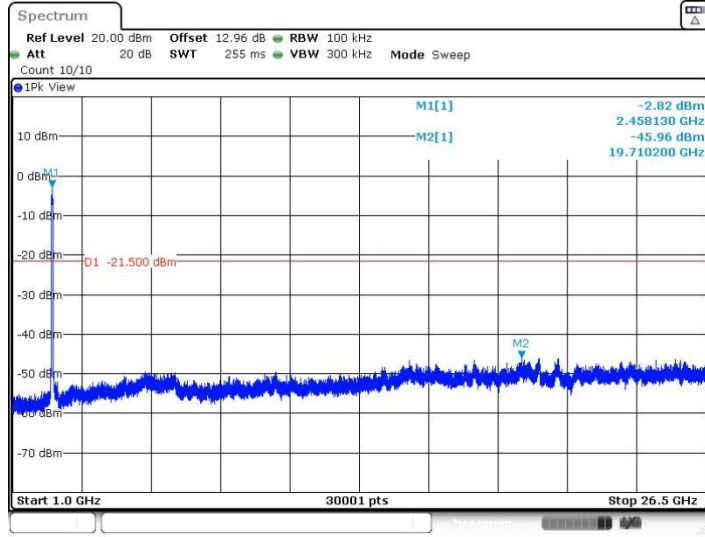




11N40SISO_Ant1_2452_30~1000



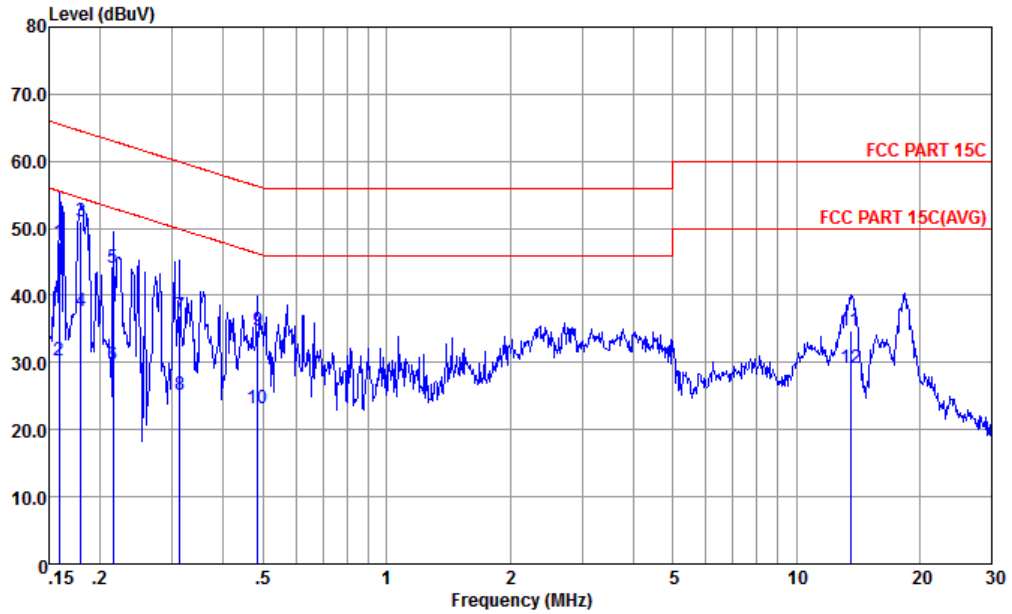
11N40SISO_Ant1_2452_1000~26500





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.		

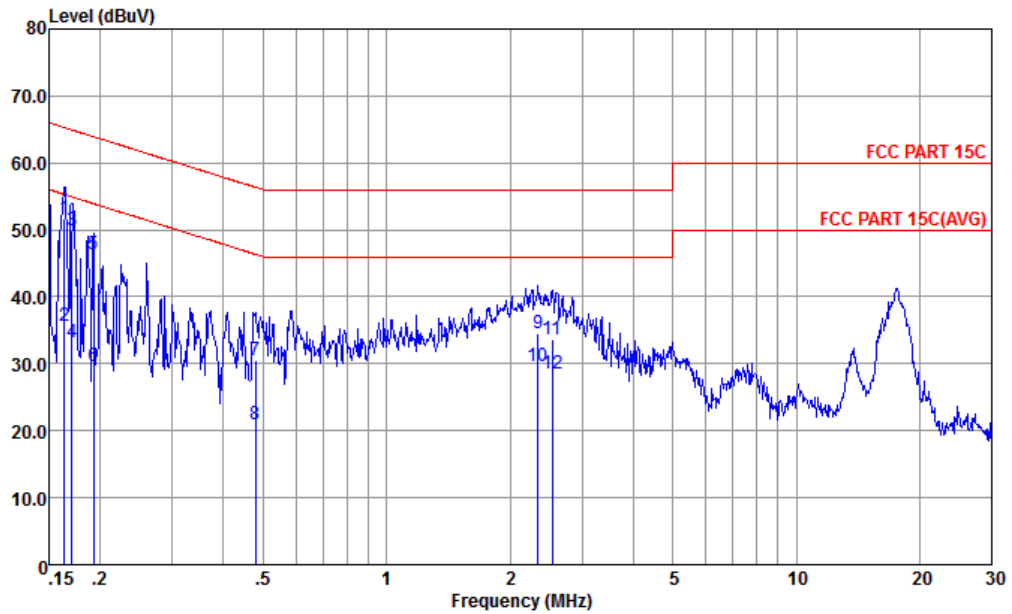


Site : CO01-KS
 Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
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	-25.32	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	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			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	46.36	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:

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



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)

Table with 14 columns: 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). Rows include data for 802.11b CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)
802.11g 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)

Table with 14 columns: 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). Rows include data for CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).



**2.4GHz 2400~2483.5MHz
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 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 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 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 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 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 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		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	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. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	802.11g CH01 2412MHz																																																											
1	Horizontal	Fundamental																																																										
Peak	<p>Site : 030805-K3 Condition : FCC PART 15C 3e 3117 5W 75957 HORIZONTAL Project : RSM 1000 000KHz VSWR 3000.000KHz SRT Auto Mode : FR262713 Plane : X Full-directivity : X PowerSetting : #1</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 1</td> <td>2389.95</td> <td>69.54</td> <td>-4.46</td> <td>74.00</td> <td>66.42</td> <td>32.88</td> <td>7.10</td> <td>36.86</td> <td>278</td> <td>248</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	on	deg	1 1	2389.95	69.54	-4.46	74.00	66.42	32.88	7.10	36.86	278	248	Peak	HORIZONTAL	<p>Site : 030805-K3 Condition : FCC PART 15C 3e 3117 5W 75957 HORIZONTAL Project : RSM 1000 000KHz VSWR 3000.000KHz SRT Auto Mode : FR262713 Plane : X Full-directivity : X PowerSetting : #1</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2410.00</td> <td>107.18</td> <td>33.18</td> <td>74.00</td> <td>104.00</td> <td>32.90</td> <td>7.13</td> <td>36.85</td> <td>278</td> <td>248</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	on	deg	1 *	2410.00	107.18	33.18	74.00	104.00	32.90	7.13	36.85	278	248	Peak	HORIZONTAL
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Avg.	<p>Site : 030805-K3 Condition : FCC PART 15C (AVG) 3e 3117 5W 75957 HORIZONTAL Project : RSM 1000 000KHz VSWR 0.2000KHz SRT Auto Mode : FR262713 Plane : X Full-directivity : X PowerSetting : #1</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 1</td> <td>2389.95</td> <td>52.45</td> <td>-1.55</td> <td>54.00</td> <td>49.33</td> <td>32.88</td> <td>7.10</td> <td>36.86</td> <td>278</td> <td>248</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	on	deg	1 1	2389.95	52.45	-1.55	54.00	49.33	32.88	7.10	36.86	278	248	Average	HORIZONTAL	<p>Site : 030805-K3 Condition : FCC PART 15C (AVG) 3e 3117 5W 75957 HORIZONTAL Project : RSM 1000 000KHz VSWR 0.2000KHz SRT Auto Mode : FR262713 Plane : X Full-directivity : X PowerSetting : #1</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>on</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1 *</td> <td>2406.00</td> <td>99.65</td> <td>45.65</td> <td>54.00</td> <td>96.47</td> <td>32.90</td> <td>7.13</td> <td>36.85</td> <td>278</td> <td>248</td> <td>Average</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	on	deg	1 *	2406.00	99.65	45.65	54.00	96.47	32.90	7.13	36.85	278	248	Average	HORIZONTAL
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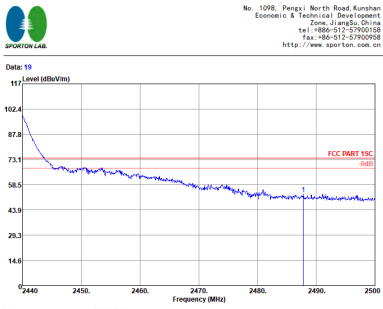
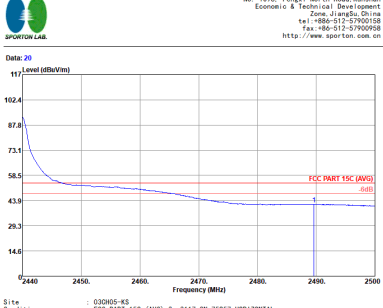
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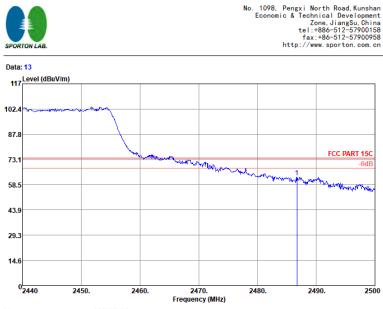
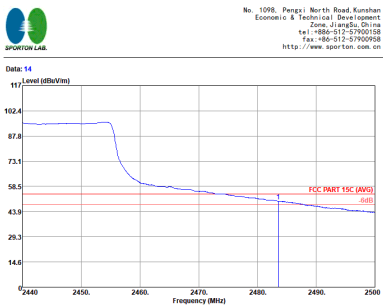


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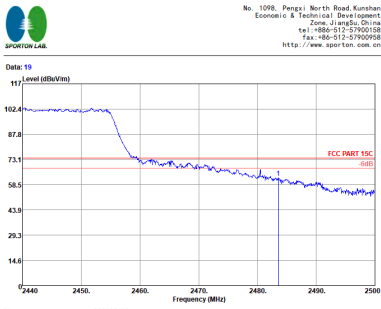
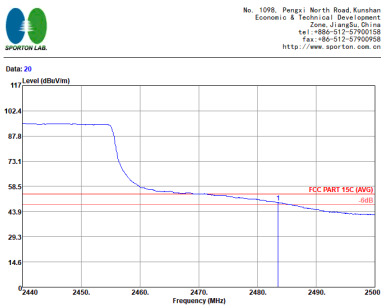


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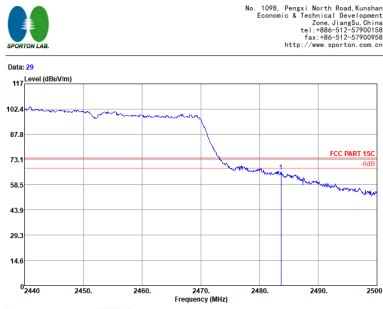
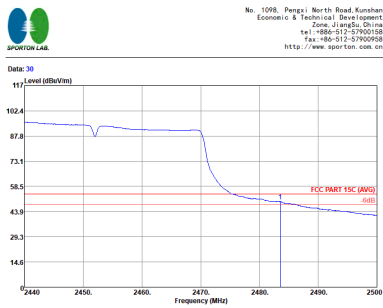


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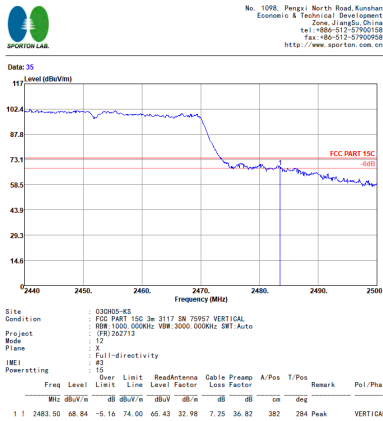
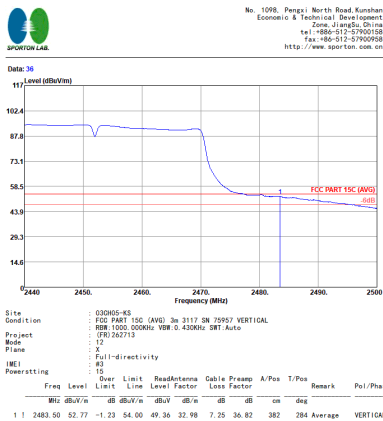


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Avg.	<p>Site : 030H05-K3 Condition : FCC PART 15C (AVG) 3e 3117.5N 75957 VERTICAL Project : RBM 1000.000MHz VBR:3000.000MHz SMT:Auto FR0262713 Mode : 12 Plane : 2 Full-directivity : 2 PowerSetting : 15</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2389.95</td> <td>45.26</td> <td>-8.74</td> <td>54.00</td> <td>42.14</td> <td>32.88</td> <td>7.10</td> <td>36.86</td> <td>382 284 Average VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm	dBm	dBm	dB	dB	cm	deg			1	2389.95	45.26	-8.74	54.00	42.14	32.88	7.10	36.86	382 284 Average VERTICAL	<p>Site : 030H05-K3 Condition : FCC PART 15C (AVG) 3e 3117.5N 75957 VERTICAL Project : RBM 1000.000MHz VBR:3000.000MHz SMT:Auto FR0262713 Mode : 12 Plane : 2 Full-directivity : 2 PowerSetting : 15</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBm</th> <th>dBm</th> <th>dBm</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2434.00</td> <td>95.88</td> <td>41.88</td> <td>54.00</td> <td>92.65</td> <td>32.92</td> <td>7.10</td> <td>36.85</td> <td>382 284 Average VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm	dBm	dBm	dB	dB	cm	deg			1	2434.00	95.88	41.88	54.00	92.65	32.92	7.10	36.85	382 284 Average VERTICAL
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																															
ANT	802.11n HT40 CH09 2452MHz - R																															
1	Vertical	Fundamental																														
<p>Peak</p>	 <p>Site : 030805-K3 Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RBM 1000 000MHz VBR 3000 000MHz SRT Auto Mode : FR0262713 Plane : X Antenna : Full-directivity MEI : 15 PowerRating : 15</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>cm</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1 1 2483.50</td> <td>68.84</td> <td>-5.16</td> <td>74.00</td> <td>65.43</td> <td>32.98</td> <td>7.25</td> <td>36.82</td> <td>382 284 Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	Freq	Level	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg			1 1 2483.50	68.84	-5.16	74.00	65.43	32.98	7.25	36.82	382 284 Peak	VERTICAL	<p>Left blank</p>
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2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																					
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																																						
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Level	Level	Level	Level	Level	Level	Level	Level	Level																																																																																																						
1	4920.00	51.87	-22.13	74.00	72.72	34.26	10.34	65.45	252	334 Peak	VERTICAL																																																																																																			
2	4920.00	48.70	-5.27	54.00	69.58	34.26	10.34	65.45	252	334 Average	VERTICAL																																																																																																			
3	7380.00	42.09	-21.91	74.00	97.97	35.88	12.73	66.11	100	0 Peak	VERTICAL																																																																																																			



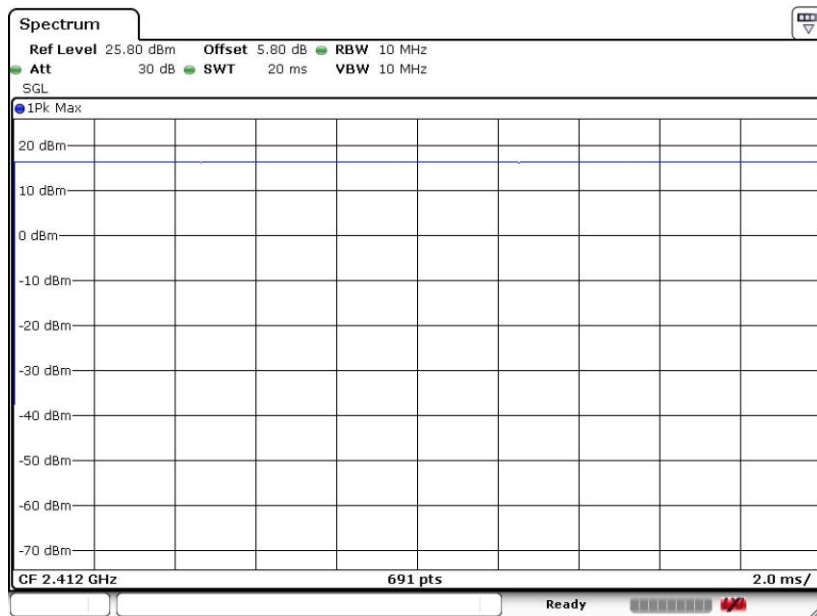
Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																																	
ANT	802.11n HT40 LF																																																																																																																																																																																																	
1	Horizontal	Vertical																																																																																																																																																																																																
QP / Peak	<p>Site : 030905-K3 Condition : FCC PART 15C 3m CBL 61110 59913 HORIZONTAL Project : RSM 100.0000KHz VSW.300.0000KHz SRT:Auto FR262713 Plane : 10 Polar : E Full-directivity : 2</p> <table border="1"> <thead> <tr> <th>IME1</th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30.00</td> <td>21.98</td> <td>-18.03</td> <td>40.00</td> <td>28.82</td> <td>24.80</td> <td>0.76</td> <td>33.40</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>2</td> <td>159.98</td> <td>18.99</td> <td>-24.21</td> <td>43.50</td> <td>33.35</td> <td>10.20</td> <td>1.84</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>3</td> <td>320.03</td> <td>23.36</td> <td>-22.44</td> <td>46.00</td> <td>33.83</td> <td>19.30</td> <td>2.93</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>4</td> <td>468.07</td> <td>23.10</td> <td>-22.95</td> <td>46.00</td> <td>29.53</td> <td>22.84</td> <td>3.13</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>5</td> <td>565.44</td> <td>25.75</td> <td>-20.25</td> <td>46.00</td> <td>28.72</td> <td>26.10</td> <td>3.33</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> <tr> <td>6</td> <td>754.97</td> <td>28.67</td> <td>-17.28</td> <td>46.00</td> <td>28.77</td> <td>28.10</td> <td>4.38</td> <td>32.28</td> <td>---</td> <td>Peak</td> <td>HORIZONTAL</td> </tr> </tbody> </table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	deg			1	30.00	21.98	-18.03	40.00	28.82	24.80	0.76	33.40	---	Peak	HORIZONTAL	2	159.98	18.99	-24.21	43.50	33.35	10.20	1.84	32.40	---	Peak	HORIZONTAL	3	320.03	23.36	-22.44	46.00	33.83	19.30	2.93	32.40	---	Peak	HORIZONTAL	4	468.07	23.10	-22.95	46.00	29.53	22.84	3.13	32.40	---	Peak	HORIZONTAL	5	565.44	25.75	-20.25	46.00	28.72	26.10	3.33	32.40	---	Peak	HORIZONTAL	6	754.97	28.67	-17.28	46.00	28.77	28.10	4.38	32.28	---	Peak	HORIZONTAL	<p>Site : 030905-K3 Condition : FCC PART 15C 3m CBL 61110 59913 VERTICAL Project : RSM 100.0000KHz VSW.300.0000KHz SRT:Auto FR262713 Plane : 10 Polar : E Full-directivity : 2</p> <table border="1"> <thead> <tr> <th>IME1</th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> <th>Pol/Phas</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>dB</th> <th>deg</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>42.61</td> <td>21.20</td> <td>-18.80</td> <td>40.00</td> <td>34.89</td> <td>17.80</td> <td>0.91</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>2</td> <td>164.22</td> <td>20.28</td> <td>-19.92</td> <td>40.00</td> <td>39.55</td> <td>11.80</td> <td>1.13</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>3</td> <td>320.19</td> <td>19.80</td> <td>-24.10</td> <td>46.00</td> <td>31.75</td> <td>18.40</td> <td>2.10</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>4</td> <td>476.09</td> <td>21.13</td> <td>-24.88</td> <td>46.00</td> <td>28.18</td> <td>22.35</td> <td>3.04</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>5</td> <td>566.41</td> <td>25.50</td> <td>-20.48</td> <td>46.00</td> <td>28.52</td> <td>26.06</td> <td>3.34</td> <td>32.40</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> <tr> <td>6</td> <td>760.19</td> <td>29.38</td> <td>-16.62</td> <td>46.00</td> <td>29.29</td> <td>28.10</td> <td>4.17</td> <td>32.18</td> <td>---</td> <td>Peak</td> <td>VERTICAL</td> </tr> </tbody> </table>	IME1	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	deg			1	42.61	21.20	-18.80	40.00	34.89	17.80	0.91	32.40	---	Peak	VERTICAL	2	164.22	20.28	-19.92	40.00	39.55	11.80	1.13	32.40	---	Peak	VERTICAL	3	320.19	19.80	-24.10	46.00	31.75	18.40	2.10	32.40	---	Peak	VERTICAL	4	476.09	21.13	-24.88	46.00	28.18	22.35	3.04	32.40	---	Peak	VERTICAL	5	566.41	25.50	-20.48	46.00	28.52	26.06	3.34	32.40	---	Peak	VERTICAL	6	760.19	29.38	-16.62	46.00	29.29	28.10	4.17	32.18	---	Peak	VERTICAL
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Appendix E. Duty Cycle Plots

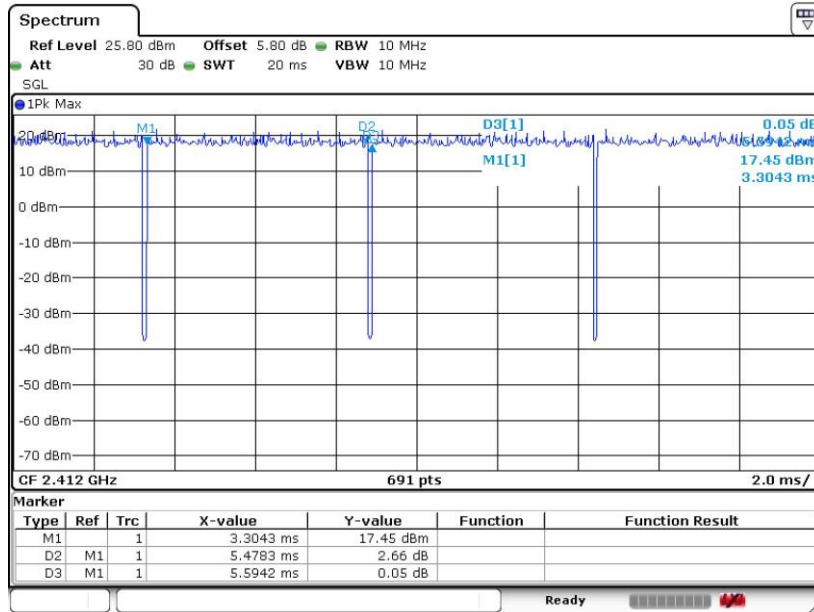
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	100	-	-	10Hz
802.11g	97.93	5.478	0.183	0.2KHz
802.11n HT20	97.77	5.073	0.197	0.2KHz
802.11n HT40	96.05	2.464	0.406	0.43KHz

802.11b

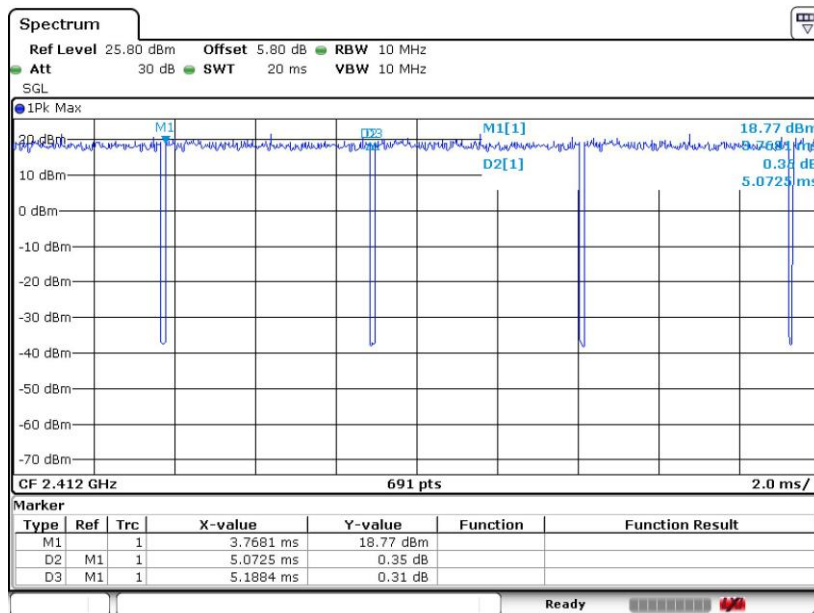




802.11g



802.11n HT20





802.11n HT40

