

**2.4GHz 2400~2483.5MHz****WIFI 802.11b (Harmonic @ 3m)**

WIFI Ant. CDD 1S2T	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)
802.11b CH 03 2422MHz		4845	41.87	-32.13	74	62.88	34	10.25	65.26	300	0	P	H
		7260	53.22	-20.78	74	71.25	35.75	12.72	66.5	370	73	P	H
		7260	49.43	-4.57	54	67.46	35.75	12.72	66.5	370	73	A	H
		4845	41.89	-32.11	74	62.9	34	10.25	65.26	100	0	P	V
		7260	56.11	-17.89	74	74.14	35.75	12.72	66.5	368	48	P	V
		7260	53.43	-0.57	54	71.46	35.75	12.72	66.5	368	48	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 (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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 10 2457MHz	*	2454	115.87	-	-	113.21	32.36	7.22	36.92	310	247	P	H
	*	2454	107.9	-	-	105.24	32.36	7.22	36.92	310	247	A	H
		2484.7	64.5	-9.5	74	61.93	32.34	7.25	37.02	310	247	P	H
		2483.68	52.24	-1.76	54	49.67	32.34	7.25	37.02	310	247	A	H
	*	2460	114.3	-	-	111.64	32.36	7.22	36.92	101	122	P	V
	*	2460	106.83	-	-	104.17	32.36	7.22	36.92	101	122	A	V
		2483.74	65.47	-8.53	74	62.9	32.34	7.25	37.02	101	122	P	V
		2483.56	53.46	-0.54	54	50.89	32.34	7.25	37.02	101	122	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 Ant. CDD 1S2T	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 10 2457MHz		4920	41.55	-32.45	74	62.51	34	10.34	65.3	300	0	P	H
		7365	49.46	-24.54	74	67.81	35.77	12.73	66.85	300	0	P	H
		4920	42.51	-31.49	74	63.47	34	10.34	65.3	100	0	P	V
		7365	53.29	-20.71	74	71.64	35.77	12.73	66.85	118	96	P	V
		7365	44.9	-9.1	54	63.25	35.77	12.73	66.85	118	96	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 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE20 Full CH 01 2412MHz		2388	66.33	-7.67	74	63.34	32.4	7.1	36.51	292	118	P	H
		2389.95	53.38	-0.62	54	50.39	32.4	7.1	36.51	292	118	A	H
	*	2410	116.41	-	-	113.5	32.39	7.13	36.61	292	118	P	H
	*	2414	105.81	-	-	102.9	32.39	7.13	36.61	292	118	A	H
		2388.65	62.82	-11.18	74	59.83	32.4	7.1	36.51	371	75	P	V
		2389.17	50.45	-3.55	54	47.46	32.4	7.1	36.51	371	75	A	V
	*	2408	116.07	-	-	113.16	32.39	7.13	36.61	371	75	P	V
	*	2414	106.29	-	-	103.38	32.39	7.13	36.61	371	75	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 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE20 Full CH 01 2412MHz		4830	40.47	-33.53	74	61.48	34	10.25	65.26	300	0	P	H
		4830	40.24	-33.76	74	61.25	34	10.25	65.26	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 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE40 Full CH 03 2422MHz		2384.49	65.25	-8.75	74	62.39	32.31	7.1	36.55	142	137	P	H
		2387.74	53.03	-0.97	54	50.04	32.4	7.1	36.51	142	137	A	H
	*	2487.1	54.33	-19.67	74	51.76	32.34	7.25	37.02	142	137	P	H
	*	2485.12	42.94	-11.06	54	40.37	32.34	7.25	37.02	142	137	A	H
		2418	109.92	-	-	106.98	32.39	7.16	36.61	142	137	P	H
		2416	100.32	-	-	97.38	32.39	7.16	36.61	142	137	A	H
		2386.05	63.73	-10.27	74	60.74	32.4	7.1	36.51	312	84	P	V
		2386.57	51.49	-2.51	54	48.5	32.4	7.1	36.51	312	84	A	V
	*	2484.22	54.53	-19.47	74	51.96	32.34	7.25	37.02	312	84	P	V
	*	2485.36	44	-10	54	41.43	32.34	7.25	37.02	312	84	A	V
		2428	110.44	-	-	107.62	32.38	7.16	36.72	312	84	P	V
		2416	100.28	-	-	97.34	32.39	7.16	36.61	312	84	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 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. CDD 1S2T	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)
802.11ax HE40 Full CH 03 2422MHz		4845	40.65	-33.35	74	61.66	34	10.25	65.26	300	0	P	H
		7260	42.78	-31.22	74	60.81	35.75	12.72	66.5	300	0	P	H
		4845	40.99	-33.01	74	62	34	10.25	65.26	100	0	P	V
		7260	43.42	-30.58	74	61.45	35.75	12.72	66.5	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 802.11g (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.	
CDD 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		46.49	26.76	-13.24	40	42.01	16.19	0.96	32.4	-	-	P	H
		126.03	31.69	-11.81	43.5	44.87	17.55	1.67	32.4	-	-	P	H
		158.04	33.64	-9.86	43.5	47.58	16.62	1.84	32.4	-	-	P	H
		225.94	32.51	-13.49	46	46.86	15.96	2.09	32.4	-	-	P	H
		403.45	33.14	-12.86	46	40.59	21.95	3	32.4	-	-	P	H
		624.61	33.77	-12.23	46	36.17	26.32	3.68	32.4	-	-	P	H
		62.98	36.91	-3.09	40	55.01	13.18	1.12	32.4	-	-	P	V
		143.49	33.06	-10.44	43.5	46.34	17.36	1.76	32.4	-	-	P	V
		249.22	31.72	-14.28	46	43.59	18.44	2.09	32.4	-	-	P	V
		430.61	31.35	-14.65	46	38.13	22.54	3.08	32.4	-	-	P	V
		500.45	33.05	-12.95	46	38.27	24.04	3.14	32.4	-	-	P	V
		874.87	33.71	-12.29	46	32.17	28.87	4.37	31.7	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<TXBF 1S2T>

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Band Edge @ 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.
BF 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
8802.11ax HE20 Full CH 07 2442MHz	*	2438	121.11	-	-	118.37	32.37	7.19	36.82	245	237	P	H
	*	2440	108.29	-	-	105.55	32.37	7.19	36.82	245	237	A	H
		2483.92	70.67	-3.33	74	68.1	32.34	7.25	37.02	245	237	P	H
		2483.56	51.16	-2.84	54	48.59	32.34	7.25	37.02	245	237	A	H
	*	2442	117.71	-	-	114.97	32.37	7.19	36.82	100	67	P	V
	*	2444	106.89	-	-	104.15	32.37	7.19	36.82	100	67	A	V
		2485.9	72.47	-1.53	74	69.9	32.34	7.25	37.02	100	67	P	V
		2484.28	53.32	-0.68	54	50.75	32.34	7.25	37.02	100	67	A	V
Remark		3. No other spurious found. 4. All results are PASS against Peak and Average limit line.											

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (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.
BF 1S2T		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 07 2442MHz		4890	45.96	-28.04	74	66.93	34	10.32	65.29	300	0	P	H
		7320	53.25	-20.75	74	71.49	35.77	12.72	66.73	215	39	P	H
		7320	46.6	-7.4	54	64.84	35.77	12.72	66.73	215	39	A	H
		4890	44.86	-29.14	74	65.83	34	10.32	65.29	100	0	P	V
		7320	53.96	-20.04	74	72.2	35.77	12.72	66.73	166	158	P	V
		7320	47.59	-6.41	54	65.83	35.77	12.72	66.73	166	158	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 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. BF 1S2T	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)
802.11ax HE40 Full CH 09 2452MHz		2356.8	57.22	-16.78	74	54.54	32.22	7.04	36.58	301	242	P	H
		2360.44	45.27	-8.73	54	42.56	32.22	7.07	36.58	301	242	A	H
	*	2486.44	69.75	-4.25	74	67.18	32.34	7.25	37.02	301	242	P	H
	*	2483.62	53.2	-0.8	54	50.63	32.34	7.25	37.02	301	242	A	H
		2456	112.63	-	-	109.97	32.36	7.22	36.92	301	242	P	H
		2458	100.65	-	-	97.99	32.36	7.22	36.92	301	242	A	H
		2389.82	57.29	-16.71	74	54.3	32.4	7.1	36.51	137	216	P	V
		2389.82	46.5	-7.5	54	43.51	32.4	7.1	36.51	137	216	A	V
	*	2489.08	66.33	-7.67	74	63.88	32.33	7.25	37.13	137	216	P	V
	*	2485.3	50.05	-3.95	54	47.48	32.34	7.25	37.02	137	216	A	V
Remark		2464	112.6	-	-	109.94	32.36	7.22	36.92	137	216	P	V
		2464	100.18	-	-	97.52	32.36	7.22	36.92	137	216	A	V
1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													

2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. BF 1S2T	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)
802.11ax		4905	40.67	-33.33	74	61.62	34	10.34	65.29	300	0	P	H
HE40 Full		7350	41.61	-32.39	74	59.97	35.77	12.72	66.85	300	0	P	H
CH 09		4905	41.11	-32.89	74	62.06	34	10.34	65.29	100	0	P	V
2452MHz		7350	42.44	-31.56	74	60.8	35.77	12.72	66.85	100	0	P	V
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	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.	
CDD 1S2T		(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

Note: All modes had been tested, only the worst channel test data of each mode are shown in the report



<CDD 1S2T>

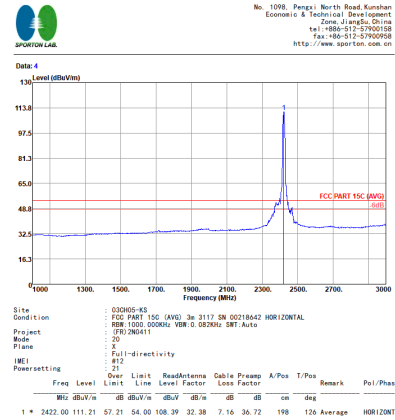
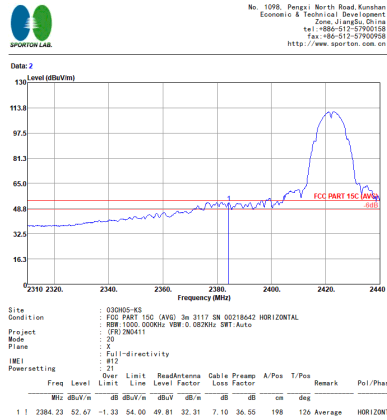
2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

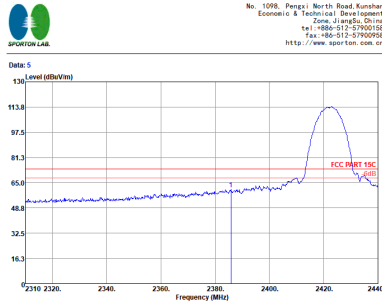
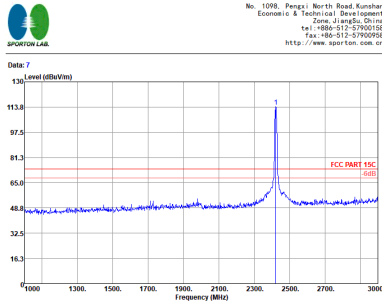
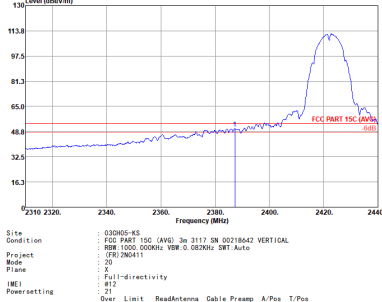
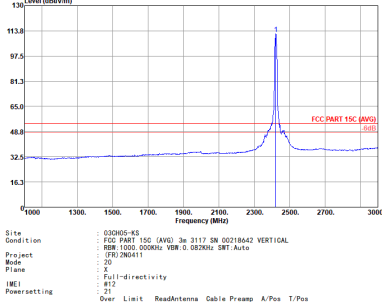
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH03 2422MHz	
CDD	Horizontal	Fundamental
1S2T	Peak Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00718642 HORIZONTAL Project : RSW 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FREQ2N0411) Plane : Z Polar : Full-directivity Polarization : H Power setting : 21 Over Limit : 21 ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : Freq Level Limit Line Level Factor Loss Factor 1 2382.02 62.17 -11.83 74.00 59.31 32.31 7.10 36.55 198 126 Peak HORIZONTAL	Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00718642 HORIZONTAL Project : RSW 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FREQ2N0411) Plane : Z Polar : Full-directivity Polarization : H Power setting : 21 Over Limit : 21 ReadAntenna : Cable Preamp : A/Pos : T/Pos : Remark : Pol/Phas : Freq Level Limit Line Level Factor Loss Factor 1 * 2422.00 113.50 39.50 74.00 110.66 32.38 7.10 36.72 198 126 Peak HORIZONTAL



Avg.





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																											
ANT	802.11b CH03 2422MHz																																																																											
CDD 1S2T	Vertical	Fundamental																																																																										
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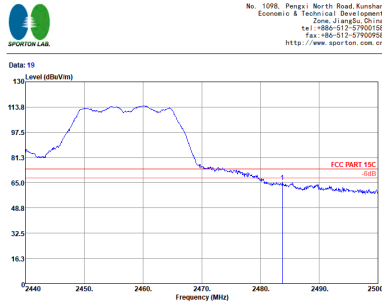
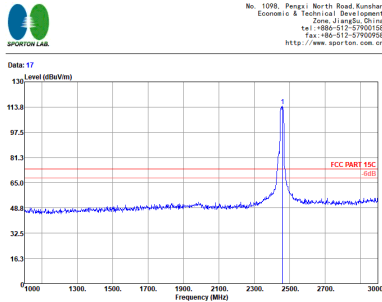
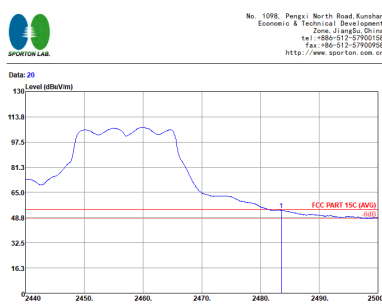
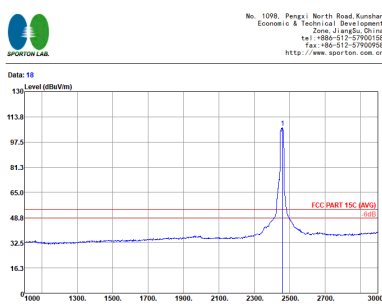


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

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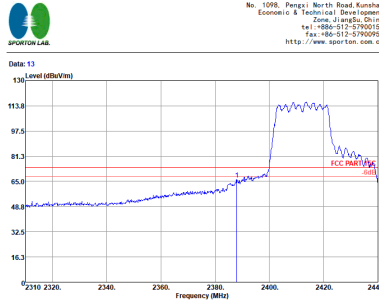
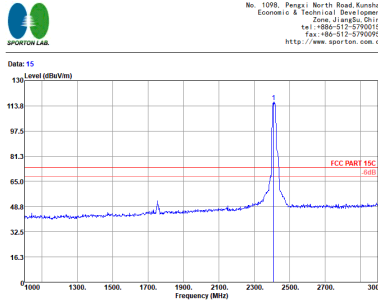
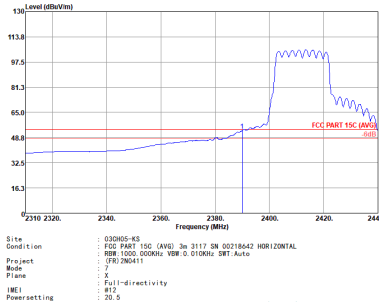
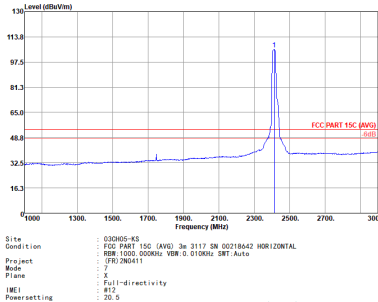


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MHz	dBm/V/m	dBm/V/m	dBm/V/m	dBm	deg	cn	deg																																																																																																
1	2483.56	53.46	-0.54	54.00	50.89	32.34	7.25 37.02 101 122 Average	VERTICAL																																																																																															
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																
MHz	dBm/V/m	dBm/V/m	dBm/V/m	dBm	deg	cn	deg																																																																																																
1	2460.00	106.83	52.83	54.00	104.17	32.36	7.22 36.92 101 122 Average	VERTICAL																																																																																															

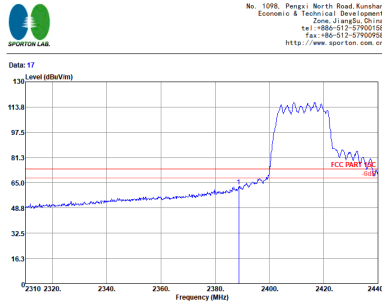
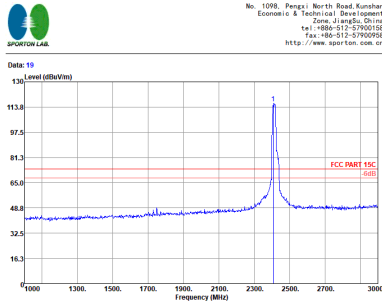
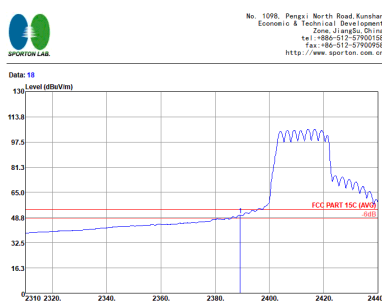
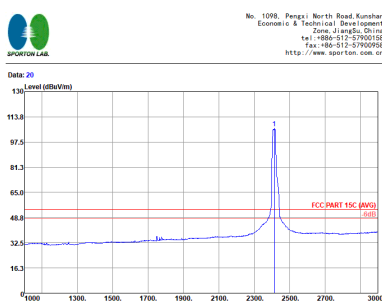


2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																													
ANT	802.11ax HE20 Full CH01 2412MHz																																																													
CDD	Horizontal	Fundamental																																																												
1S2T																																																														
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.spartan.com.cn Site : 030905-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW 3.000.000KHz SRT Auto Bode : (FR)2M0411 Plane : Z P : X Full-directivity : X Powersetting : 20.5 #12 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 2388.00</td><td>66.33</td><td>-7.67</td><td>74.00</td><td>63.34</td><td>32.40</td><td>7.10</td><td>36.51</td><td>292</td><td>118 Peak</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg	1 2388.00	66.33	-7.67	74.00	63.34	32.40	7.10	36.51	292	118 Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.spartan.com.cn Site : 030905-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW 3.000.000KHz SRT Auto Bode : (FR)2M0411 Plane : Z P : X Full-directivity : X Powersetting : 20.5 #12 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 * 2410.00</td><td>116.41</td><td>42.41</td><td>74.00</td><td>113.50</td><td>32.39</td><td>7.13</td><td>36.61</td><td>292</td><td>118 Peak</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg	1 * 2410.00	116.41	42.41	74.00	113.50	32.39	7.13	36.61	292	118 Peak
Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																																					
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Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.spartan.com.cn Site : 030905-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW 3.01000KHz SRT Auto Bode : (FR)2M0411 Plane : Z P : X Full-directivity : X Powersetting : 20.5 #12 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 2389.95</td><td>53.38</td><td>-0.62</td><td>54.00</td><td>50.39</td><td>32.40</td><td>7.10</td><td>36.51</td><td>292</td><td>118 Average</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg	1 2389.95	53.38	-0.62	54.00	50.39	32.40	7.10	36.51	292	118 Average	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.spartan.com.cn Site : 030905-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW 3.01000KHz SRT Auto Bode : (FR)2M0411 Plane : Z P : X Full-directivity : X Powersetting : 20.5 #12 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 * 2414.00</td><td>105.81</td><td>51.81</td><td>54.00</td><td>102.90</td><td>32.39</td><td>7.13</td><td>36.61</td><td>292</td><td>118 Average</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg	1 * 2414.00	105.81	51.81	54.00	102.90	32.39	7.13	36.61	292	118 Average
Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pow	T/Pow	Remark	Pol/Phas																																																					
MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg																																																					
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MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB	dB	dB	on	deg																																																					
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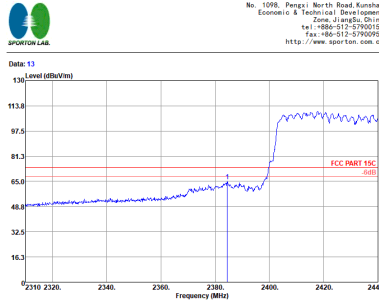
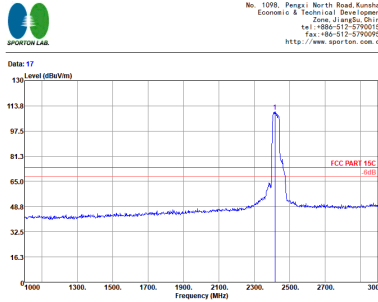
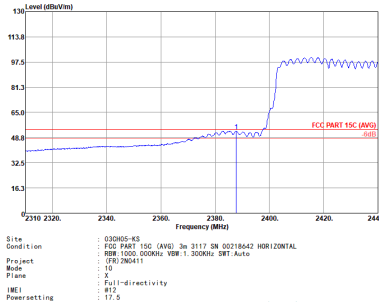
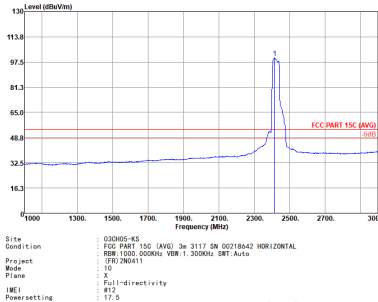


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																																																																								
ANT	802.11ax HE20 Full CH01 2412MHz																																																																																																																								
CDD 1S2T	Vertical	Fundamental																																																																																																																							
Peak	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C 3m 3117 SN 00718642 VERTICAL Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto Bode : (FR)2N0411 Plane : 7 Full-directivity IME1 : #12 Powersetting : 20.5 <table><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>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2388.65</td><td>62.82</td><td>-11.18</td><td>74.00</td><td>69.83</td><td>32.40</td><td>7.10</td><td>36.51</td><td>371</td><td>75</td><td>Peak</td><td>VERTICAL</td></tr></table>  No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C 3m 3117 SN 00718642 VERTICAL Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto Bode : (FR)2N0411 Plane : 7 Full-directivity IME1 : #12 Powersetting : 20.5 <table><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>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2408.00</td><td>116.07</td><td>42.07</td><td>74.00</td><td>113.16</td><td>32.39</td><td>7.13</td><td>36.61</td><td>371</td><td>75</td><td>Peak</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	cn	deg	1	2388.65	62.82	-11.18	74.00	69.83	32.40	7.10	36.51	371	75	Peak	VERTICAL	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	cn	deg	1	2408.00	116.07	42.07	74.00	113.16	32.39	7.13	36.61	371	75	Peak	VERTICAL	Avg.	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00718642 VERTICAL Project : RSM 1000.000KHz VBR 0.0100KHz SRT Auto Bode : (FR)2N0411 Plane : 7 Full-directivity IME1 : #12 Powersetting : 20.5 <table><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>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2389.17</td><td>50.45</td><td>-3.55</td><td>54.00</td><td>47.46</td><td>32.40</td><td>7.10</td><td>36.51</td><td>371</td><td>75</td><td>Average</td><td>VERTICAL</td></tr></table>  No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00718642 VERTICAL Project : RSM 1000.000KHz VBR 0.0100KHz SRT Auto Bode : (FR)2N0411 Plane : 7 Full-directivity IME1 : #12 Powersetting : 20.5 <table><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>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>dBm/100m</th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2414.00</td><td>106.29</td><td>52.29</td><td>54.00</td><td>103.38</td><td>32.39</td><td>7.13</td><td>36.61</td><td>371</td><td>75</td><td>Average</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	cn	deg	1	2389.17	50.45	-3.55	54.00	47.46	32.40	7.10	36.51	371	75	Average	VERTICAL	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	dBm/100m	cn	deg	1	2414.00	106.29	52.29	54.00	103.38	32.39	7.13	36.61	371	75	Average	VERTICAL
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																		
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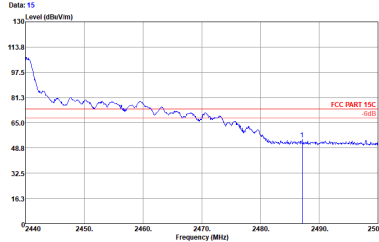
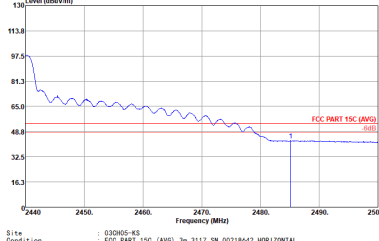


2.4GHz 2400~2483.5MHz

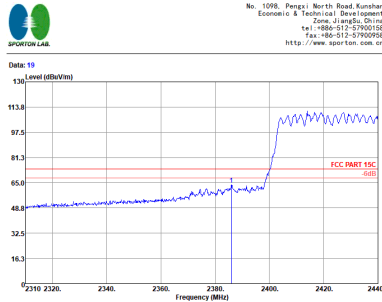
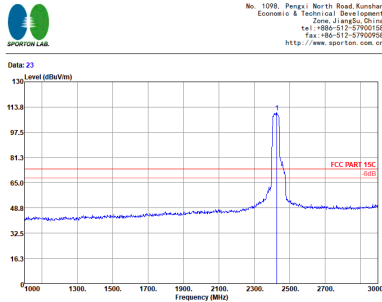
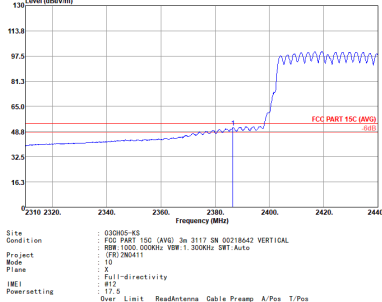
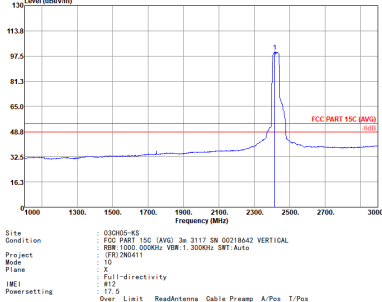
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																			
ANT	802.11ax HE40 Full CH03 2422MHz - L																																																																			
CDD	Horizontal	Fundamental																																																																		
1S2T																																																																				
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sparton.com.cn Site : 030905-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW.3000.000KHz SRT Auto Bode : (FR)2M411 Plane : X Polar : Full-directivity Polarization : H Power setting : 17.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>2384.49</td><td>65.25</td><td>-6.75</td><td>74.00</td><td>62.39</td><td>32.31</td><td>7.10</td><td>36.55</td><td>142</td><td>137 Peak</td></tr></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sparton.com.cn Site : 030905-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW.3000.000KHz SRT Auto Bode : (FR)2M411 Plane : X Polar : Full-directivity Polarization : H Power setting : 17.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>2418.00</td><td>109.92</td><td>35.92</td><td>74.00</td><td>106.98</td><td>32.39</td><td>7.16</td><td>36.61</td><td>142</td><td>137 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg		1	2384.49	65.25	-6.75	74.00	62.39	32.31	7.10	36.55	142	137 Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg		1	2418.00	109.92	35.92	74.00	106.98	32.39	7.16	36.61	142	137 Peak	
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas																																																										
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1	2384.49	65.25	-6.75	74.00	62.39	32.31	7.10	36.55	142	137 Peak																																																										
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas																																																										
MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg																																																											
1	2418.00	109.92	35.92	74.00	106.98	32.39	7.16	36.61	142	137 Peak																																																										
Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sparton.com.cn Site : 030905-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW.1.3000KHz SRT Auto Bode : (FR)2M411 Plane : X Polar : Full-directivity Polarization : H Power setting : 17.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>2387.74</td><td>53.03</td><td>-0.97</td><td>54.00</td><td>50.04</td><td>32.40</td><td>7.10</td><td>36.51</td><td>142</td><td>137 Average</td></tr></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sparton.com.cn Site : 030905-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW.1.3000KHz SRT Auto Bode : (FR)2M411 Plane : X Polar : Full-directivity Polarization : H Power setting : 17.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB</th><th>dB</th><th>deg</th><th></th></tr><tr><td>1</td><td>2416.00</td><td>100.32</td><td>46.32</td><td>54.00</td><td>97.38</td><td>32.39</td><td>7.16</td><td>36.61</td><td>142</td><td>137 Average</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg		1	2387.74	53.03	-0.97	54.00	50.04	32.40	7.10	36.51	142	137 Average	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg		1	2416.00	100.32	46.32	54.00	97.38	32.39	7.16	36.61	142	137 Average	
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas																																																										
MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dBm/Vm	dBm/Vm	dB	dB	deg																																																											
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Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas																																																										
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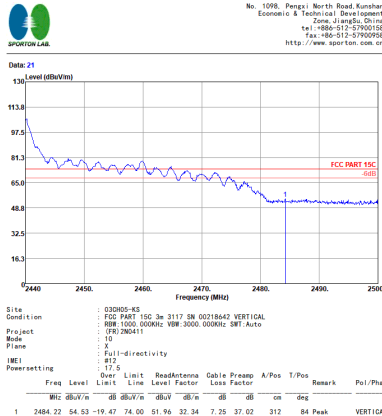
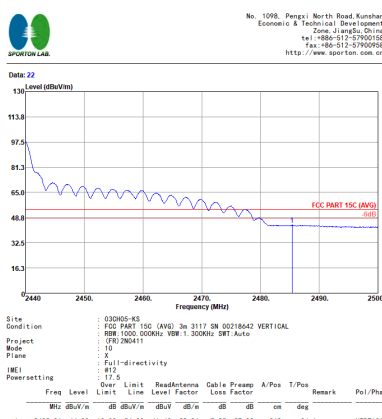


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																														
ANT	802.11ax HE40 Full CH03 2422MHz - R																														
CDD 1S2T	Horizontal	Fundamental																													
Peak	 No. 1098, Pengji North Road Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 032H05-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW:3000.000KHz SWT:Auto Bode : (FREQ240411) Plane : X Full-directivity IMEI : #12 Powersetting : 17.5 <table><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/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2487.10</td><td>54.33</td><td>-19.67</td><td>74.00</td><td>51.76</td><td>32.34</td><td>7.25</td><td>37.02</td><td>142</td><td>137</td><td>Peak</td><td>HORIZONTAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg	1	2487.10	54.33	-19.67	74.00	51.76	32.34	7.25	37.02	142	137	Peak	HORIZONTAL	Left blank
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																								
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg																								
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Avg.	 No. 1098, Pengji North Road Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 032H05-KS Condition : FCC PART 15C (Ave) 3m 3117 SN 00218642 HORIZONTAL Project : RRM 1000.000KHz VSW:1.3000KHz SWT:Auto Bode : (FREQ240411) Plane : X Full-directivity IMEI : #12 Powersetting : 17.5 <table><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/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.12</td><td>42.94</td><td>-11.06</td><td>54.00</td><td>40.37</td><td>32.34</td><td>7.25</td><td>37.02</td><td>142</td><td>137</td><td>Average</td><td>HORIZONTAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	cm	deg	1	2485.12	42.94	-11.06	54.00	40.37	32.34	7.25	37.02	142	137	Average	HORIZONTAL	Left blank
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																								
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																											
ANT	802.11ax HE40 Full CH03 2422MHz - L																																																											
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1S2T																																																												
Peak	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto Bode : (F0) 2N0411 Plane : X Full-directivity : X IMEI : #12 Power setting : 17.5 <table><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/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2386.05</td><td>63.73</td><td>-10.27</td><td>74.00</td><td>60.74</td><td>32.40</td><td>7.10</td><td>36.51</td><td>312</td><td>84</td><td>Peak</td><td>VERTICAL</td></tr></table>  No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RSM 1000.000KHz VBR 3000.000KHz SRT Auto Bode : (F0) 2N0411 Plane : X Full-directivity : X IMEI : #12 Power setting : 17.5 <table><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/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2428.00</td><td>110.44</td><td>36.44</td><td>74.00</td><td>107.62</td><td>32.38</td><td>7.16</td><td>36.72</td><td>312</td><td>84</td><td>Peak</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	Freq	Level	Line	Level Factor	Loss Factor		cn	deg	1	2386.05	63.73	-10.27	74.00	60.74	32.40	7.10	36.51	312	84	Peak	VERTICAL	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	Freq	Level	Line	Level Factor	Loss Factor		cn	deg	1	2428.00	110.44	36.44	74.00	107.62	32.38	7.16	36.72	312	84	Peak	VERTICAL	
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Avg.	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 VERTICAL Project : RSM 1000.000KHz VBR 1.3000KHz SRT Auto Bode : (F0) 2N0411 Plane : X Full-directivity : X IMEI : #12 Power setting : 17.5 <table><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/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2386.57</td><td>51.49</td><td>-2.51</td><td>54.00</td><td>48.50</td><td>32.40</td><td>7.10</td><td>36.51</td><td>312</td><td>84</td><td>Average</td><td>VERTICAL</td></tr></table>  No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Site : 030805-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 VERTICAL Project : RSM 1000.000KHz VBR 1.3000KHz SRT Auto Bode : (F0) 2N0411 Plane : X Full-directivity : X IMEI : #12 Power setting : 17.5 <table><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/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th></th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>2416.00</td><td>100.28</td><td>46.28</td><td>54.00</td><td>97.34</td><td>32.39</td><td>7.16</td><td>36.61</td><td>312</td><td>84</td><td>Average</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	Freq	Level	Line	Level Factor	Loss Factor		cn	deg	1	2386.57	51.49	-2.51	54.00	48.50	32.40	7.10	36.51	312	84	Average	VERTICAL	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	Freq	Level	Line	Level Factor	Loss Factor		cn	deg	1	2416.00	100.28	46.28	54.00	97.34	32.39	7.16	36.61	312	84	Average	VERTICAL	
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																					
Freq	Level	Line	Level Factor	Loss Factor		cn	deg																																																					
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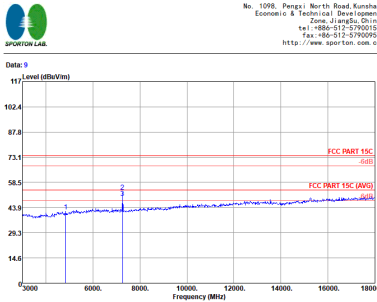
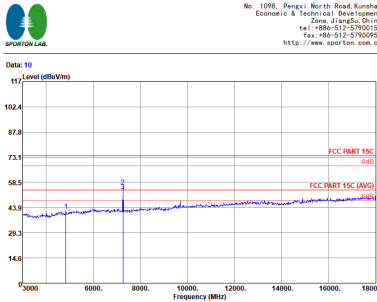


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																													
ANT	802.11ax HE40 Full CH03 2422MHz - R																													
CDD 1S2T	Vertical	Fundamental																												
Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57902158 Fax: +86-512-57902958 http://www.sparton.co.uk.cn Site : 030805-KS Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RRB 1000.000KHz VSW:3000.000KHz SWT:Auto Bode : (FREQ)2M0411 Plane : 10 Polar : 2 Full-directivity IMEI : #12 PowerSetting : 17.5 <table><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/Phase</th></tr><tr><th>MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>deg</th></tr><tr><td>1</td><td>2484.22</td><td>54.53</td><td>-19.47</td><td>74.00</td><td>51.96</td><td>32.34</td><td>7.25</td><td>37.02</td><td>312</td><td>84 Peak</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	deg	1	2484.22	54.53	-19.47	74.00	51.96	32.34	7.25	37.02	312	84 Peak	VERTICAL	Left blank
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																							
MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	deg																							
1	2484.22	54.53	-19.47	74.00	51.96	32.34	7.25	37.02	312	84 Peak	VERTICAL																			
Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57902158 Fax: +86-512-57902958 http://www.sparton.co.uk.cn Site : 030805-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 VERTICAL Project : RRB 1000.000KHz VSW:1.3000KHz SWT:Auto Bode : (FREQ)2M0411 Plane : 10 Polar : 2 Full-directivity IMEI : #12 PowerSetting : 17.5 <table><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/Phase</th></tr><tr><th>MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>dBm/100MHz</th><th>deg</th></tr><tr><td>1</td><td>2485.36</td><td>44.00</td><td>-10.00</td><td>54.00</td><td>41.43</td><td>32.34</td><td>7.25</td><td>37.02</td><td>312</td><td>84 Average</td><td>VERTICAL</td></tr></table>	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	deg	1	2485.36	44.00	-10.00	54.00	41.43	32.34	7.25	37.02	312	84 Average	VERTICAL	Left blank
Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																							
MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	dBm/100MHz	deg																							
1	2485.36	44.00	-10.00	54.00	41.43	32.34	7.25	37.02	312	84 Average	VERTICAL																			



2.4GHz 2400~2483.5MHz

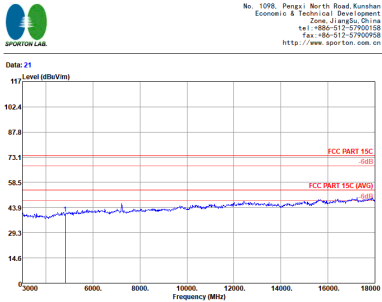
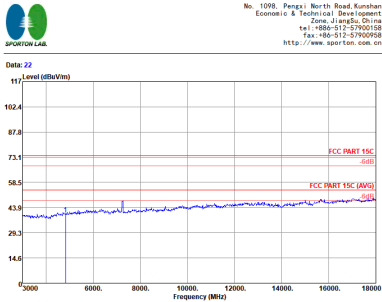
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH03 2422MHz	
CDD	Horizontal	Vertical
1S2T		
Peak Avg.	 Data: 9 Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 00186A2 HORIZONTAL Project : RRM 1000.000KHz VSW 3000.000KHz SMT Auto Model : FPO2N0411 Plane : 20 Polar : Full-directivity Polarization : H Power setting : 21 Over Limit ReadAntenna Cable Preamp A/Pwr T/Pwr Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor dB cm dBm 1 4845.00 41.87 -32.13 74.00 62.88 34.00 10.25 65.26 300 0 Peak HORIZONTAL 2 7260.00 53.22 -20.78 74.00 71.25 35.75 12.72 66.50 370 73 Peak HORIZONTAL 3 7260.00 49.43 -4.57 54.00 67.46 35.75 12.72 66.50 370 73 Average HORIZONTAL	 Data: 10 Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 00186A2 VERTICAL Project : RRM 1000.000KHz VSW 3000.000KHz SMT Auto Model : FPO2N0411 Plane : 20 Polar : Full-directivity Polarization : V Power setting : 21 Over Limit ReadAntenna Cable Preamp A/Pwr T/Pwr Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor dB cm dBm 1 4845.00 41.89 -32.11 74.00 62.90 34.00 10.25 65.26 100 0 Peak VERTICAL 2 7260.00 55.11 -17.89 74.00 74.14 35.75 12.72 66.50 368 48 Peak VERTICAL 3 7260.00 53.43 -4.57 54.00 71.46 35.75 12.72 66.50 368 48 Average VERTICAL



2.4GHz 2400~2483.5MHz

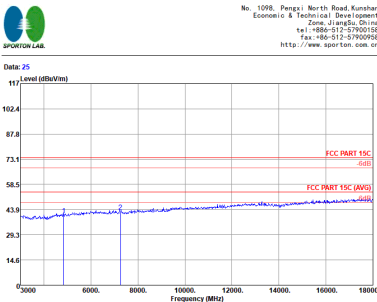
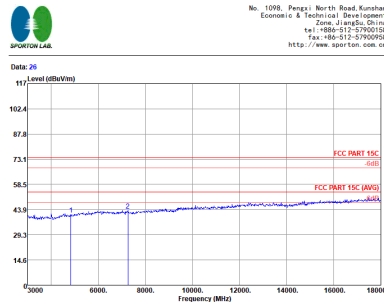
WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11 ax HE20 Full CH01 2412MHz	
CDD	Horizontal	Vertical
1S2T		
Peak Avg.	The plot shows the frequency spectrum for the horizontal orientation. The y-axis is Level (dBm/100Hz) from 14.0 to 117.0. The x-axis is Frequency (MHz) from 5000 to 18000. A blue line represents the measured signal, and a red line represents the FCC Part 15C limit. The signal is below the limit. Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 0018642 HORIZONTAL Project : RRM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : 7 Plane : X Full-directivity : X Power setting : 20.0 Limit : 117.0 ReadAntenna : 61.48 Cable Preamp : 10.25 A/Pos : 65.26 T/Pos : 300 Remark : 0 Peak Pol/Phas : HORIZONTAL	The plot shows the frequency spectrum for the vertical orientation. The y-axis is Level (dBm/100Hz) from 14.0 to 117.0. The x-axis is Frequency (MHz) from 5000 to 18000. A blue line represents the measured signal, and a red line represents the FCC Part 15C limit. The signal is below the limit. Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 0018642 VERTICAL Project : RRM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : 7 Plane : X Full-directivity : X Power setting : 20.0 Limit : 117.0 ReadAntenna : 61.25 Cable Preamp : 10.25 A/Pos : 65.26 T/Pos : 100 Remark : 0 Peak Pol/Phas : VERTICAL



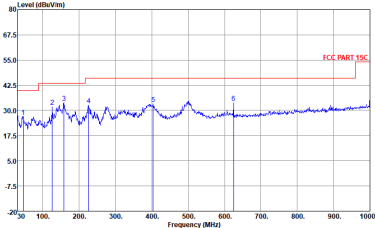
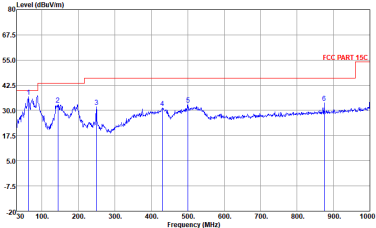
2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																								
ANT	802.11 ax HE40 Full CH03 2422MHz																																																								
CDD	Horizontal	Vertical																																																							
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Peak Avg.	<table><tr><td>Site</td><td>: 030905-KS</td></tr><tr><td>Condition</td><td>: FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL</td></tr><tr><td>Project</td><td>: R08 1000.000KHz V08 3000.000KHz SRT-Auto</td></tr><tr><td>Model</td><td>: FPO2N0411</td></tr><tr><td>Plane</td><td>: Z</td></tr><tr><td>Full-directivity</td><td>: #1</td></tr><tr><td>Power setting</td><td>: 17.5</td></tr><tr><td>Over Limit</td><td>: 17.5</td></tr><tr><td>ReadAntenna</td><td>: Cable Preamp</td></tr><tr><td>Cable Preamp</td><td>: Loss Factor</td></tr><tr><td>A/Pos</td><td>: T/Pos</td></tr><tr><td>Remark</td><td>: Pol/Phas</td></tr><tr><td>1</td><td>4845.00 40.65 -33.35 74.00 61.66 34.00 10.25 65.26 300 0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7260.00 42.79 -31.22 74.00 60.81 35.75 12.72 66.50 300 0 Peak HORIZONTAL</td></tr></table> <table><tr><td>Site</td><td>: 030905-KS</td></tr><tr><td>Condition</td><td>: FCC PART 15C 3m 3117.5M 00218642 VERTICAL</td></tr><tr><td>Project</td><td>: R08 1000.000KHz V08 3000.000KHz SRT-Auto</td></tr><tr><td>Model</td><td>: FPO2N0411</td></tr><tr><td>Plane</td><td>: X</td></tr><tr><td>Full-directivity</td><td>: #1</td></tr><tr><td>Power setting</td><td>: 17.5</td></tr><tr><td>Over Limit</td><td>: 17.5</td></tr><tr><td>ReadAntenna</td><td>: Cable Preamp</td></tr><tr><td>Cable Preamp</td><td>: Loss Factor</td></tr><tr><td>A/Pos</td><td>: T/Pos</td></tr><tr><td>Remark</td><td>: Pol/Phas</td></tr><tr><td>1</td><td>4845.00 40.99 -33.01 74.00 62.00 34.00 10.25 65.26 100 0 Peak VERTICAL</td></tr><tr><td>2</td><td>7260.00 43.42 -30.58 74.00 61.40 35.75 12.72 66.50 100 0 Peak VERTICAL</td></tr></table>	Site	: 030905-KS	Condition	: FCC PART 15C 3m 3117.5M 00218642 HORIZONTAL	Project	: R08 1000.000KHz V08 3000.000KHz SRT-Auto	Model	: FPO2N0411	Plane	: Z	Full-directivity	: #1	Power setting	: 17.5	Over Limit	: 17.5	ReadAntenna	: Cable Preamp	Cable Preamp	: Loss Factor	A/Pos	: T/Pos	Remark	: Pol/Phas	1	4845.00 40.65 -33.35 74.00 61.66 34.00 10.25 65.26 300 0 Peak HORIZONTAL	2	7260.00 42.79 -31.22 74.00 60.81 35.75 12.72 66.50 300 0 Peak HORIZONTAL	Site	: 030905-KS	Condition	: FCC PART 15C 3m 3117.5M 00218642 VERTICAL	Project	: R08 1000.000KHz V08 3000.000KHz SRT-Auto	Model	: FPO2N0411	Plane	: X	Full-directivity	: #1	Power setting	: 17.5	Over Limit	: 17.5	ReadAntenna	: Cable Preamp	Cable Preamp	: Loss Factor	A/Pos	: T/Pos	Remark	: Pol/Phas	1	4845.00 40.99 -33.01 74.00 62.00 34.00 10.25 65.26 100 0 Peak VERTICAL	2	7260.00 43.42 -30.58 74.00 61.40 35.75 12.72 66.50 100 0 Peak VERTICAL
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Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

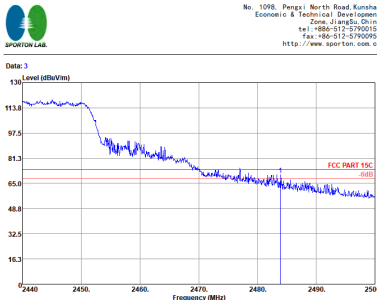
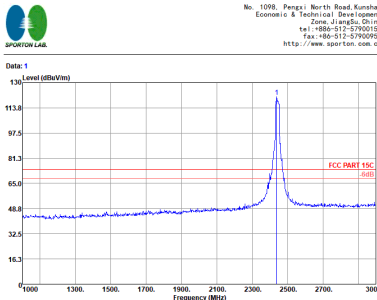
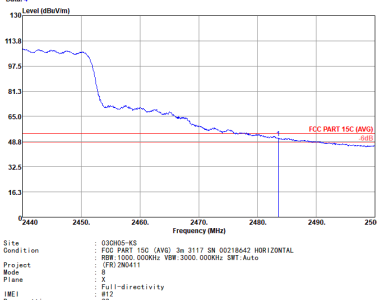
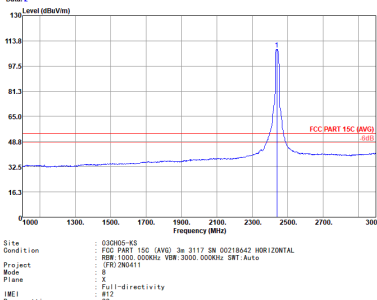
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QP / Peak	 No. 109B, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57902058 fax: +86-512-57902058 http://www.sportel.com.cn Data: 1  Site : 030405-K3 Condition : FCC PART 15C 3m LF 49921 HORIZONTAL Power : 100.0000mW VSW: 300.0000kV SWT: Auto Project : 250410 mode : 16 Full-directivity : 2 IMEI : 812 21.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th></tr></thead><tbody><tr><td>1</td><td>46.49</td><td>26.76</td><td>-13.24</td><td>40.00</td><td>42.01</td><td>16.19</td><td>0.96</td><td>32.40</td><td>---</td></tr><tr><td>2</td><td>126.03</td><td>31.69</td><td>-11.81</td><td>43.50</td><td>44.87</td><td>17.50</td><td>1.67</td><td>32.40</td><td>---</td></tr><tr><td>3</td><td>158.04</td><td>33.64</td><td>-10.86</td><td>43.50</td><td>47.58</td><td>16.62</td><td>1.84</td><td>32.40</td><td>---</td></tr><tr><td>4</td><td>225.94</td><td>32.51</td><td>-13.49</td><td>46.00</td><td>46.86</td><td>15.96</td><td>2.09</td><td>32.40</td><td>---</td></tr><tr><td>5</td><td>402.40</td><td>33.14</td><td>-12.86</td><td>46.00</td><td>40.99</td><td>21.95</td><td>3.00</td><td>32.40</td><td>---</td></tr><tr><td>6</td><td>624.61</td><td>33.77</td><td>-12.23</td><td>46.00</td><td>36.17</td><td>26.32</td><td>3.68</td><td>32.40</td><td>---</td></tr></tbody></table>	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dB	dB	dB	dB	dB	dB	1	46.49	26.76	-13.24	40.00	42.01	16.19	0.96	32.40	---	2	126.03	31.69	-11.81	43.50	44.87	17.50	1.67	32.40	---	3	158.04	33.64	-10.86	43.50	47.58	16.62	1.84	32.40	---	4	225.94	32.51	-13.49	46.00	46.86	15.96	2.09	32.40	---	5	402.40	33.14	-12.86	46.00	40.99	21.95	3.00	32.40	---	6	624.61	33.77	-12.23	46.00	36.17	26.32	3.68	32.40	---	 No. 109B, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57902058 fax: +86-512-57902058 http://www.sportel.com.cn Data: 2  Site : 030405-K3 Condition : FCC PART 15C 3m LF 49921 VERTICAL Power : 100.0000mW VSW: 300.0000kV SWT: Auto Project : 250410 mode : 16 Full-directivity : 2 IMEI : 812 21.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th></tr></thead><tbody><tr><td>1</td><td>42.98</td><td>36.91</td><td>-3.09</td><td>40.00</td><td>55.01</td><td>13.18</td><td>1.12</td><td>32.40</td><td>---</td></tr><tr><td>2</td><td>143.49</td><td>33.90</td><td>-10.44</td><td>43.50</td><td>46.34</td><td>17.36</td><td>1.76</td><td>32.40</td><td>---</td></tr><tr><td>3</td><td>249.22</td><td>31.72</td><td>-14.78</td><td>46.00</td><td>43.99</td><td>18.44</td><td>2.09</td><td>32.40</td><td>---</td></tr><tr><td>4</td><td>430.61</td><td>31.35</td><td>-14.65</td><td>46.00</td><td>38.13</td><td>22.54</td><td>3.08</td><td>32.40</td><td>---</td></tr><tr><td>5</td><td>500.40</td><td>33.05</td><td>-12.95</td><td>46.00</td><td>38.77</td><td>26.56</td><td>3.14</td><td>32.40</td><td>---</td></tr><tr><td>6</td><td>674.87</td><td>33.71</td><td>-12.29</td><td>46.00</td><td>32.17</td><td>28.87</td><td>4.37</td><td>31.70</td><td>---</td></tr></tbody></table>	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Poss	T/Poss	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dB	dB	dB	dB	dB	dB	1	42.98	36.91	-3.09	40.00	55.01	13.18	1.12	32.40	---	2	143.49	33.90	-10.44	43.50	46.34	17.36	1.76	32.40	---	3	249.22	31.72	-14.78	46.00	43.99	18.44	2.09	32.40	---	4	430.61	31.35	-14.65	46.00	38.13	22.54	3.08	32.40	---	5	500.40	33.05	-12.95	46.00	38.77	26.56	3.14	32.40	---	6	674.87	33.71	-12.29	46.00	32.17	28.87	4.37	31.70	---
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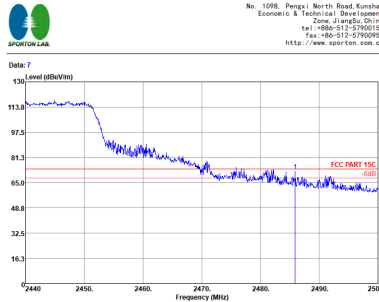
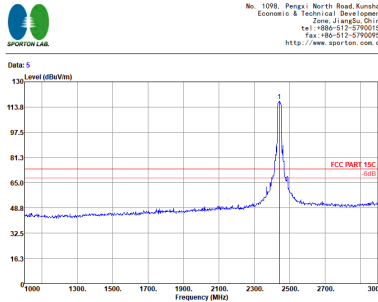
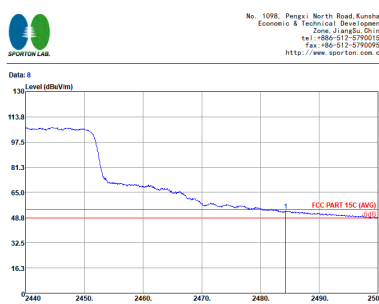
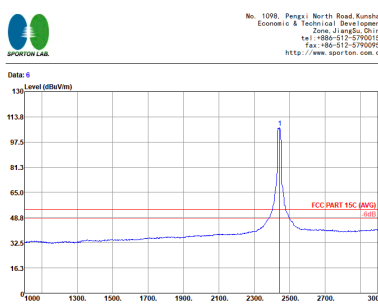
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2.4GHz 2400~2483.5MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH07 2442MHz	
BF 1S2T	Horizontal	Fundamental
Peak	 Site : 030605-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FR)2N0411 Plane : X Full-directivity : X Full-directivity : X Power setting : 22 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm 1 1 2483.92 70.67 -3.33 74.00 68.10 32.34 7.25 37.02 245 237 Peak HORIZONTAL	 Site : 030605-KS Condition : FCC PART 15C 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FR)2N0411 Plane : X Full-directivity : X Full-directivity : X Power setting : 22 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm 1 * 2438.00 121.11 47.11 74.00 118.37 32.37 7.19 36.82 245 237 Peak HORIZONTAL
Avg.	 Site : 030605-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FR)2N0411 Plane : X Full-directivity : X Full-directivity : X Power setting : 22 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm 1 1 2483.56 51.16 -2.84 54.00 48.59 32.34 7.25 37.02 245 237 Average HORIZONTAL	 Site : 030605-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 HORIZONTAL Project : RSM 1000.000KHz VSW 3000.000KHz SMT Auto Bode : (FR)2N0411 Plane : X Full-directivity : X Full-directivity : X Power setting : 22 Over Limit ReadAntenna Cable Preamp A/Pos T/Pos dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm dBm/dBm 1 * 2440.00 108.29 54.29 54.00 105.55 32.37 7.19 36.82 245 237 Average HORIZONTAL

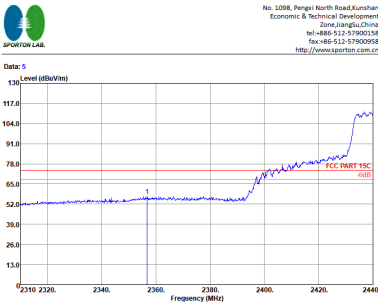
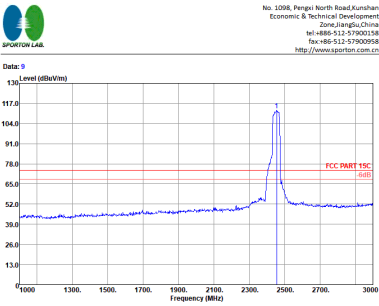
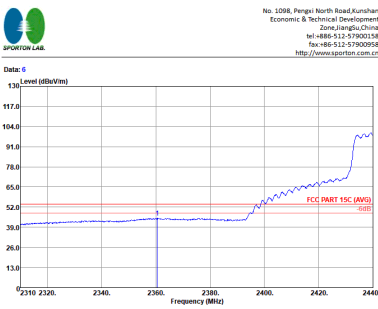
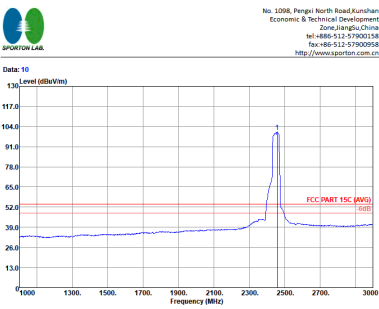


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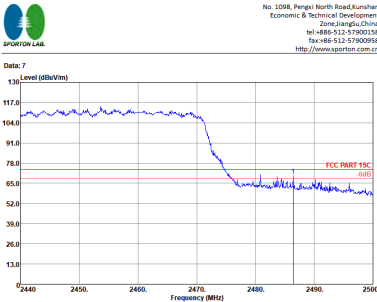
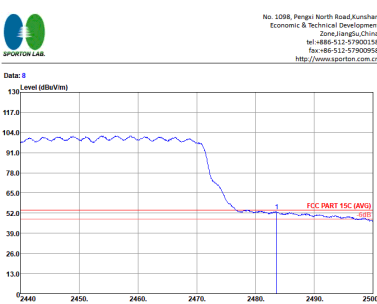


2.4GHz 2400~2483.5MHz

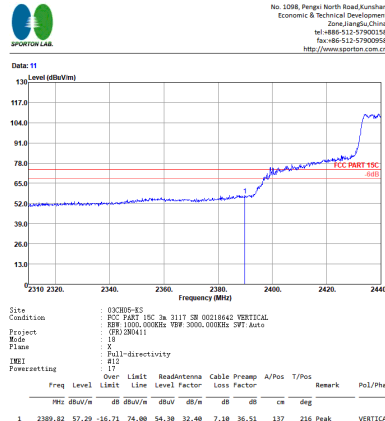
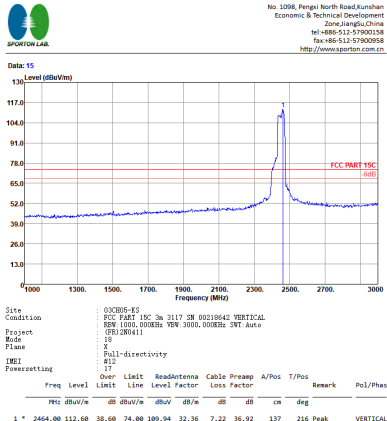
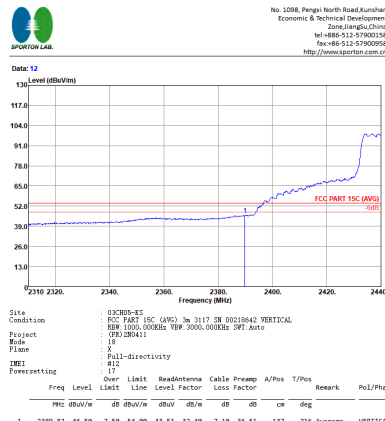
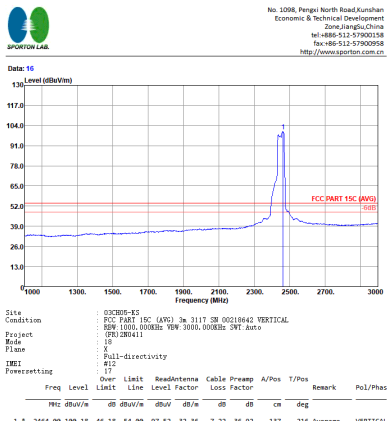
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

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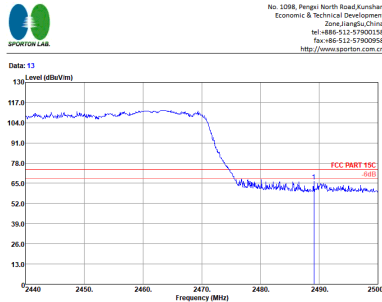
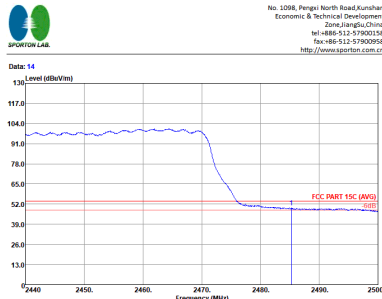


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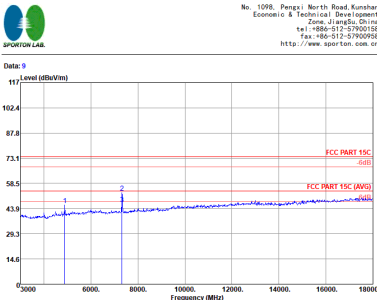
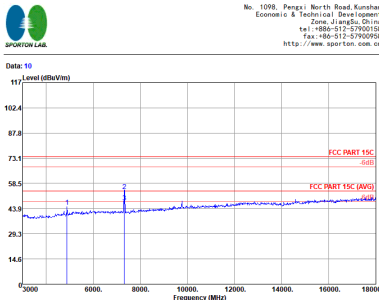


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																			
ANT	802.11ax HE40 Full CH09 2452MHz - R																																			
BF 1S2T	Vertical	Fundamental																																		
Peak	 No. 1098, Pengxi North Road,Kunshan Economic & Technical Development Zone,Jiangsu,China Tel:+86-512-57900158 Fax:+86-512-57900068 http://www.sporton.com.cn Site : 03C085-ES Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL Project : RFH 1000,000KHz VSW 3000,000KHz SWP:Auto Bode : (F0)230411 Mode : 18 Plane : X Polar-directivity : Full-directivity IMEI : #12 Powersetting : 17 <table><tr><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>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2489.08</td><td>66.33</td><td>-7.67</td><td>74.00</td><td>63.68</td><td>32.33</td><td>7.25</td><td>37.13</td><td>137</td><td>216 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	2489.08	66.33	-7.67	74.00	63.68	32.33	7.25	37.13	137	216 Peak	VERTICAL	Left blank
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2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

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Peak	 Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 00186A2 HORIZONTAL Project : RRM 1000.000KHz VSW 3000.000KHz SRT Auto Mode : (F7E)2N0411 Plane : X Polar : Full-directivity Powersetting : #17 #22 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>deg</th></tr></thead><tbody><tr><td>1 4890.00</td><td>45.96</td><td>-28.04</td><td>74.00</td><td>66.93</td><td>34.00</td><td>10.32</td><td>65.29</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2 7320.00</td><td>53.25</td><td>-20.75</td><td>74.00</td><td>71.49</td><td>35.77</td><td>12.72</td><td>66.73</td><td>215</td><td>39 Peak</td><td>HORIZONTAL</td></tr><tr><td>3 7320.00</td><td>46.60</td><td>-7.40</td><td>54.00</td><td>64.84</td><td>35.77</td><td>12.72</td><td>66.73</td><td>215</td><td>39 Average</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	deg	1 4890.00	45.96	-28.04	74.00	66.93	34.00	10.32	65.29	300	0 Peak	HORIZONTAL	2 7320.00	53.25	-20.75	74.00	71.49	35.77	12.72	66.73	215	39 Peak	HORIZONTAL	3 7320.00	46.60	-7.40	54.00	64.84	35.77	12.72	66.73	215	39 Average	HORIZONTAL	 Site : 030905-KS Condition : FCC PART 15C 3m 3117.5M 00186A2 VERTICAL Project : RRM 1000.000KHz VSW 3000.000KHz SRT Auto Mode : (F7E)2N0411 Plane : X Polar : Full-directivity Powersetting : #17 #22 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pow</th><th>T/Pow</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>deg</th></tr></thead><tbody><tr><td>1 4890.00</td><td>44.86</td><td>-29.14</td><td>74.00</td><td>65.83</td><td>34.00</td><td>10.32</td><td>65.29</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>2 7320.00</td><td>53.96</td><td>-20.04</td><td>74.00</td><td>72.20</td><td>35.77</td><td>12.72</td><td>66.73</td><td>166</td><td>158 Peak</td><td>VERTICAL</td></tr><tr><td>3 7320.00</td><td>47.59</td><td>-6.41</td><td>54.00</td><td>65.83</td><td>35.77</td><td>12.72</td><td>66.73</td><td>166</td><td>158 Average</td><td>VERTICAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pow	T/Pow	Remark	Pol/Phas	MHz	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	dBm	deg	1 4890.00	44.86	-29.14	74.00	65.83	34.00	10.32	65.29	100	0 Peak	VERTICAL	2 7320.00	53.96	-20.04	74.00	72.20	35.77	12.72	66.73	166	158 Peak	VERTICAL	3 7320.00	47.59	-6.41	54.00	65.83	35.77	12.72	66.73	166	158 Average	VERTICAL
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2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

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Peak	No. 1098, Pengzi North Road,Kunshan Economic & Technical Development Zone,Jiangsu,China tel:+86-512-57900158 fax:+86-512-57900958 http://www.sportson.com.cn Site : 03C805-15 Condition : FCC PART 15C 3117 CM 00218640 HORIZONTAL Project : RW 1000.000KHz YEM 3000.000KHz SWT Auto Date : 18 Plane : X Polar : Full-directivity IMEI : #12 Power setting : 17 <table><thead><tr><th>Freq</th><th>Level</th><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>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>4995.00</td><td>40.67</td><td>-35.33</td><td>74.00</td><td>61.62</td><td>10.34</td><td>65.29</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7350.00</td><td>41.61</td><td>-32.39</td><td>74.00</td><td>59.57</td><td>12.72</td><td>66.85</td><td>0 Peak</td><td>HORIZONTAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dBm/100kHz	cm	deg			1	4995.00	40.67	-35.33	74.00	61.62	10.34	65.29	0 Peak	HORIZONTAL	2	7350.00	41.61	-32.39	74.00	59.57	12.72	66.85	0 Peak	HORIZONTAL	No. 1098, Pengzi North Road,Kunshan Economic & Technical Development Zone,Jiangsu,China tel:+86-512-57900158 fax:+86-512-57900958 http://www.sportson.com.cn Site : 03C805-15 Condition : FCC PART 15C 3117 CM 00218640 VERTICAL Project : RW 1000.000KHz YEM 3000.000KHz SWT Auto Date : 18 Plane : X Polar : Full-directivity IMEI : #12 Power setting : 17 <table><thead><tr><th>Freq</th><th>Level</th><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>dBm/100kHz</th><th>dB</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>4995.00</td><td>41.11</td><td>-32.89</td><td>74.00</td><td>62.86</td><td>10.34</td><td>65.29</td><td>0 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7350.00</td><td>42.44</td><td>-31.56</td><td>74.00</td><td>60.89</td><td>12.72</td><td>66.85</td><td>0 Peak</td><td>VERTICAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBm/100kHz	dB	dBm/100kHz	dBm/100kHz	dBm/100kHz	cm	deg			1	4995.00	41.11	-32.89	74.00	62.86	10.34	65.29	0 Peak	VERTICAL	2	7350.00	42.44	-31.56	74.00	60.89	12.72	66.85	0 Peak	VERTICAL
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Appendix E. Duty Cycle Plots

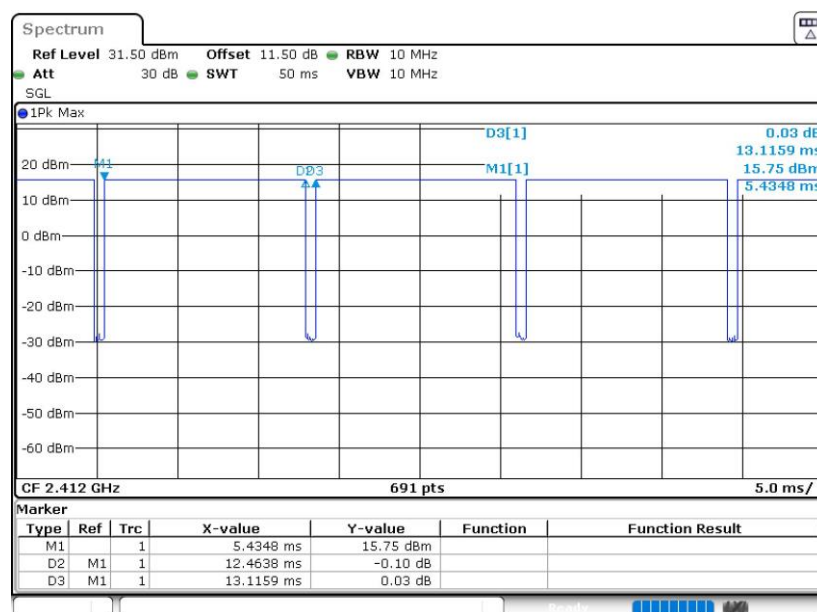
For CDD mode

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b	95.03	12.464	0.080	0.082kHz
1+2	802.11g	94.67	2.058	0.486	0.51kHz
1+2	802.11ax HE20	98.08	-	-	10Hz
1+2	802.11ax HE40	96.79	0.787	1.271	1.3kHz

For TXBF mode

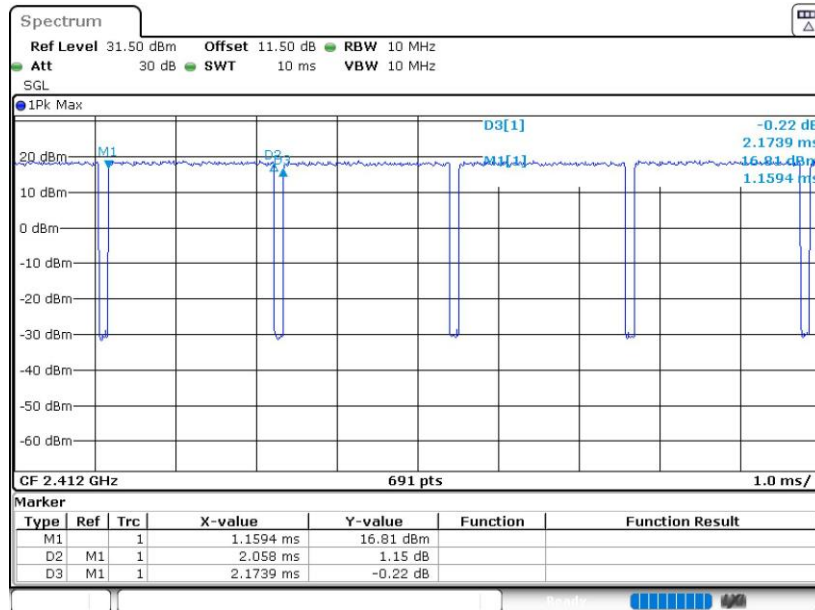
Antenna	Band	Duty Cycle(%)	Duty Factor
1+2	802.11ax HE20	94.5	0.25
1+2	802.11ax HE40	90.3	0.44

802.11b

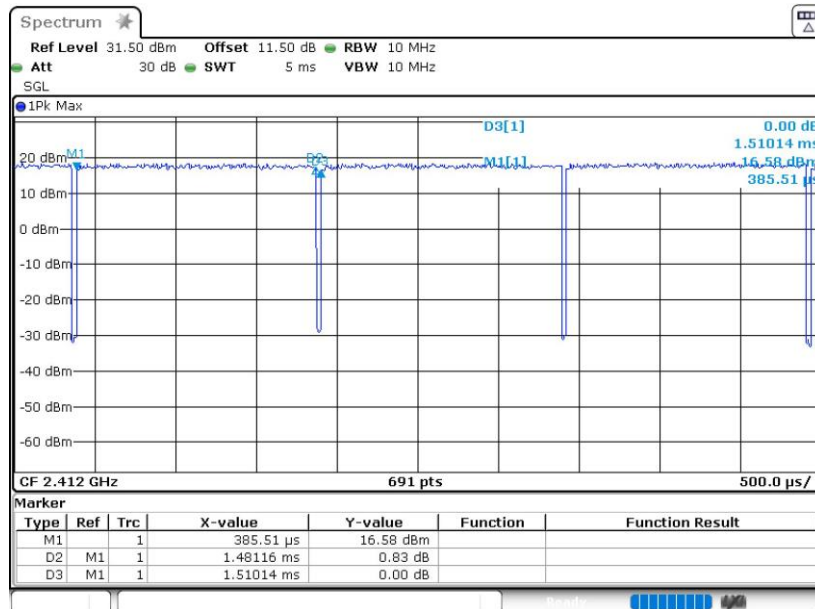




802.11g



802.11ax HE20





802.11ax HE40

