

Project No.	SHT2112116402EW		
Test sample No.	YPHT21121164001	Model No.	SH2-ADAA
Start test date	2022/1/13	Finish date	2022/2/23
Temperature	22.5℃	Humidity	49%
Test Engineer	Bo Wang	Auditor	<i>Xiaodong Zhao</i>

Appendix clause	Test Item	Result
A	Conducted Power Measurement Results	PASS
B	SAR Measurement Results	PASS
C	Simultaneous Transmission analysis	PASS

Appendix A:Conducted Power Measurement Results-DECT

WIFI 2.4G				
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up limit (dBm)
GFSK	4	1921.536	20.39	20.50
	2	1924.992	20.36	20.50
	0	1928.448	20.18	20.50

Appendix A:Conducted Power Measurement Results-WIFI/Bluetooth

WIFI 2.4G					
Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	Tune-up limit (dBm)
802.11b	1	2412	19.30	17.01	17.50
	6	2437	18.80	16.31	16.50
	11	2462	18.82	16.37	16.50
802.11g	1	2412	23.71	20.91	21.00
	6	2437	23.22	20.46	20.50
	11	2462	23.10	20.30	20.50
802.11n (HT20)	1	2412	23.74	20.73	21.00
	6	2437	23.22	20.42	20.50
	11	2462	23.05	20.13	20.50
802.11n (HT40)	3	2422	21.85	18.88	19.00
	6	2437	23.53	20.62	21.00
	9	2452	21.93	18.93	19.00

WIFI 5G U-NII-1					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	36	5180	15.10	15.50
		44	5220	15.08	15.50
		48	5240	15.13	15.50
	802.11n	36	5180	15.11	15.50
		44	5220	15.02	15.50
		48	5240	14.95	15.00
	802.11a	36	5180	15.30	15.50
		44	5220	15.15	15.50
		48	5240	15.11	15.50
40	802.11ac	38	5190	11.25	11.50
		46	5230	15.20	15.50
	802.11n	38	5190	11.00	11.00
		46	5230	15.23	15.50
80	802.11ac	42	5210	11.52	12.00

WIFI 5G U-NII-2A					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	52	5260	15.24	15.50
		56	5280	15.21	15.50
		64	5320	15.42	15.50
	802.11n	52	5260	15.04	15.50
		56	5280	15.00	15.00
		64	5320	15.27	15.50
	802.11a	52	5260	15.21	15.50
		56	5280	15.20	15.50
		64	5320	15.45	15.50
40	802.11ac	54	5270	15.41	15.50
		62	5310	11.05	11.50
	802.11n	54	5270	15.36	15.50
		62	5310	10.99	11.00
80	802.11ac	58	5290	11.49	11.50

WIFI 5G U-NII-2C					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	100	5500	15.45	15.50
		116	5580	15.57	16.00
		144	5720	16.25	16.50
	802.11n	100	5500	15.30	15.50
		116	5580	15.38	15.50
		144	5720	16.27	16.50
	802.11a	100	5500	15.47	15.50
		116	5580	15.54	16.00
		144	5720	16.32	16.50
40	802.11ac	102	5510	11.25	11.50
		110	5550	15.72	16.00
		142	5710	16.52	17.00
	802.11n	102	5510	11.26	11.50
		110	5550	15.75	16.00
		142	5710	16.39	16.50
80	802.11ac	106	5530	10.91	11.00
		138	5690	16.24	16.50

WIFI 5G U-NII-3					
Bandwidth	Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-up limit (dBm)
20	802.11ac	149	5745	15.98	16.00
		157	5785	16.04	16.50
		165	5825	16.13	16.50
	802.11n	149	5745	16.06	16.50
		157	5785	16.09	16.50
		165	5825	16.05	16.50
	802.11a	149	5745	16.18	16.50
		157	5785	16.22	16.50
		165	5825	16.27	16.50
40	802.11ac	151	5755	16.34	16.50
		159	5795	16.40	16.50
	802.11n	151	5755	16.32	16.50
		159	5795	16.39	16.50
80	802.11ac	155	5775	12.94	13.00

Bluetooth						
Mode		Channel	Frequency (MHz)	Peak Power (dBm)	Average Power (dBm)	Tune-up limit (dBm)
EDR	GFSK	0	2402	6.76	6.75	7.00
		39	2441	7.54	7.51	8.00
		78	2480	6.77	6.71	7.00
	$\pi/4$ QPSK	0	2402	6.68	6.08	6.50
		39	2441	7.41	6.78	7.00
		78	2480	5.73	5.07	5.50
	8DPSK	0	2402	6.57	5.94	6.00
		39	2441	6.59	5.96	6.00
		78	2480	6.87	6.22	6.50
BLE	GFSK	0	2402	6.65	6.55	7.00
		19	2440	7.37	7.29	7.50
		39	2480	6.65	6.52	7.00

Appendix B:SAR Measurement Results-Head

DECT										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GFSDK	Left-Cheek	4	1921.54	20.39	20.50	1.026	-0.10	0.005	0.005	1
		2	1924.99	20.36	20.50	1.033	-0.14	0.004	0.004	-
		0	1928.45	20.18	20.50	1.076	-0.03	0.004	0.004	-
	Left-Tilt	4	1921.54	20.39	20.50	1.026	-0.13	0.003	0.003	-
		2	1924.99	20.36	20.50	1.033	-	-	-	-
		0	1928.45	20.18	20.50	1.076	-	-	-	-
	Right-Cheek	4	1921.54	20.39	20.50	1.026	-0.15	0.005	0.005	-
		2	1924.99	20.36	20.50	1.033	-	-	-	-
		0	1928.45	20.18	20.50	1.076	-	-	-	-
	Right-Tilt	4	1921.54	20.39	20.50	1.026	-0.13	0.003	0.003	-
		2	1924.99	20.36	20.50	1.033	-	-	-	-
		0	1928.45	20.18	20.50	1.076	-	-	-	-

WIFI 2.4G												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11b	Left-Cheek	1	2412	17.01	17.50	1.119	99.60%	1.004	0.00	0.800	0.899	2
		6	2437	16.31	16.50	1.045	99.60%	1.004	0.02	0.796	0.835	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	0.13	0.772	0.799	-
	Left-Tilt	1	2412	17.01	17.50	1.119	99.60%	1.004	0.13	0.624	0.701	-
		6	2437	16.31	16.50	1.045	99.60%	1.004	-	-	-	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	-	-	-	-
	Right-Cheek	1	2412	17.01	17.50	1.119	99.60%	1.004	-0.06	0.766	0.861	-
		6	2437	16.31	16.50	1.045	99.60%	1.004	-0.11	0.748	0.785	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	0.18	0.732	0.757	-
	Right-Tilt	1	2412	17.01	17.50	1.119	99.60%	1.004	0.07	0.595	0.669	-
		6	2437	16.31	16.50	1.045	99.60%	1.004	-	-	-	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	-	-	-	-

WIFI 5G U-NII-1												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11a	Left-Cheek	36	5180	15.30	15.50	1.047	97.36%	1.027	-0.13	0.152	0.163	3
		44	5220	15.15	15.50	1.084	97.36%	1.027	0.03	0.142	0.158	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	-0.07	0.139	0.156	-
	Left-Tilt	36	5180	15.30	15.50	1.047	97.36%	1.027	0.11	0.104	0.112	-
		44	5220	15.15	15.50	1.084	97.36%	1.027	-	-	-	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	-	-	-	-
	Right-Cheek	36	5180	15.30	15.50	1.047	97.36%	1.027	-0.09	0.136	0.146	-
		44	5220	15.15	15.50	1.084	97.36%	1.027	-	-	-	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	-	-	-	-
	Right-Tilt	36	5180	15.30	15.50	1.047	97.36%	1.027	-0.17	0.098	0.105	-
		44	5220	15.15	15.50	1.084	97.36%	1.027	-	-	-	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	-	-	-	-

WIFI 5G U-NII-2A												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11a	Left-Cheek	52	5260	15.21	15.50	1.069	97.36%	1	-0.07	0.194	0.213	-
		56	5280	15.20	15.50	1.072	97.36%	1	0.05	0.197	0.217	-
		64	5320	15.45	15.50	1.012	97.36%	1	-0.18	0.217	0.225	4
	Left-Tilt	52	5260	15.21	15.50	1.069	97.36%	1	-	-	-	-
		56	5280	15.20	15.50	1.072	97.36%	1	-	-	-	-
		64	5320	15.45	15.50	1.012	97.36%	1	-0.06	0.174	0.181	-
	Right-Cheek	52	5260	15.21	15.50	1.069	97.36%	1	-	-	-	-
		56	5280	15.20	15.50	1.072	97.36%	1	-	-	-	-
		64	5320	15.45	15.50	1.012	97.36%	1	-0.01	0.188	0.195	-
	Right-Tilt	52	5260	15.21	15.50	1.069	97.36%	1	-	-	-	-
		56	5280	15.20	15.50	1.072	97.36%	1	-	-	-	-
		64	5320	15.45	15.50	1.012	97.36%	1	0.13	0.136	0.141	-

WIFI 5G U-NII-2C												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11ac (VHT40)	Left-Cheek	102	5510	11.25	11.50	1.059	94.68%	1.056	-0.05	0.119	0.133	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	0.03	0.324	0.365	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	-0.10	0.385	0.454	5
	Left-Tilt	102	5510	11.25	11.50	1.059	94.68%	1.056	-	-	-	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	-	-	-	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	-0.17	0.326	0.385	-
	Right-Cheek	102	5510	11.25	11.50	1.059	94.68%	1.056	-	-	-	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	-	-	-	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	-0.01	0.326	0.385	-
	Right-Tilt	102	5510	11.25	11.50	1.059	94.68%	1.056	-	-	-	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	-	-	-	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	0.06	0.271	0.320	-

WIFI 5G U-NII-3												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11ac (VHT40)	Left-Cheek	151	5755	16.34	16.50	1.038	94.68%	1.056	0.06	0.378	0.414	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	-0.01	0.393	0.425	6
	Left-Tilt	151	5755	16.34	16.50	1.038	94.68%	1.056	-	-	-	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	-0.15	0.306	0.331	-
	Right-Cheek	151	5755	16.34	16.50	1.038	94.68%	1.056	-	-	-	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	-0.02	0.328	0.354	-
	Right-Tilt	151	5755	16.34	16.50	1.038	94.68%	1.056	-	-	-	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	0.17	0.242	0.262	-

Bluetooth												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
GFSK	Left-Cheek	0	2402	6.75	7.00	1.059	76.61%	1.305	0.03	0.058	0.080	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	-0.12	0.066	0.096	7
		78	2480	6.71	7.00	1.069	76.61%	1.305	-0.08	0.055	0.087	-
	Left-Tilt	0	2402	6.75	7.00	1.059	76.61%	1.305	-	-	-	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	0.08	0.058	0.085	-
		78	2480	6.71	7.00	1.069	76.61%	1.305	-	-	-	-
	Right-Cheek	0	2402	6.75	7.00	1.059	76.61%	1.305	-	-	-	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	-0.11	0.060	0.088	-
		78	2480	6.71	7.00	1.069	76.61%	1.305	-	-	-	-
	Right-Tilt	0	2402	6.75	7.00	1.059	76.61%	1.305	-	-	-	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	0.05	0.055	0.080	-
		78	2480	6.71	7.00	1.069	76.61%	1.305	-	-	-	-

Appendix B:SAR Measurement Results-Body

DECT										
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz					(W/kg)	(W/kg)	
GFSK	Front	4	1921.536	20.39	20.50	1.026	-0.13	0.006	0.006	-
		2	1924.992	20.36	20.50	1.033	-	-	-	-
		0	1928.448	20.18	20.50	1.076	-	-	-	-
	Rear	4	1921.536	20.39	20.50	1.026	-0.11	0.008	0.008	8
		2	1924.992	20.36	20.50	1.033	-0.09	0.007	0.007	-
		0	1928.448	20.18	20.50	1.076	-0.13	0.007	0.008	-

WIFI 2.4G												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11b	Front	1	2412	17.01	17.50	1.119	99.60%	1.004	-0.02	0.202	0.227	-
		6	2437	16.31	16.50	1.045	99.60%	1.004	-	-	-	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	-	-	-	-
	Rear	1	2412	17.01	17.50	1.119	99.60%	1.004	-0.14	0.291	0.327	9
		6	2437	16.31	16.50	1.045	99.60%	1.004	-0.07	0.244	0.256	-
		11	2462	16.37	16.50	1.030	99.60%	1.004	0.03	0.247	0.256	-

WIFI 5G U-NII-1												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11a	Front	36	5180	15.30	15.50	1.047	97.36%	1.027	0.14	0.783	0.842	-
		44	5220	15.15	15.50	1.084	97.36%	1.027	-0.08	0.749	0.834	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	0.14	0.726	0.816	-
	Rear	36	5180	15.30	15.50	1.047	97.36%	1.027	-0.12	0.936	1.007	10
		44	5220	15.15	15.50	1.084	97.36%	1.027	-0.05	0.886	0.986	-
		48	5240	15.11	15.50	1.094	97.36%	1.027	0.07	0.847	0.952	-

WIFI 5G U-NII-2A												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11a	Front	52	5260	15.21	15.50	1.069	97.36%	1.027	-0.02	0.905	0.994	-
		56	5280	15.20	15.50	1.072	97.36%	1.027	0.13	0.948	1.043	-
		64	5320	15.45	15.50	1.012	97.36%	1.027	-0.04	0.983	1.021	-
	Rear	52	5260	15.21	15.50	1.069	97.36%	1.027	0.09	0.985	1.082	-
		56	5280	15.20	15.50	1.072	97.36%	1.027	-0.17	1.020	1.123	-
		64	5320	15.45	15.50	1.012	97.36%	1.027	-0.14	1.150	1.195	11

WIFI 5G U-NII-2C												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11ac (VHT40)	Front	102	5510	11.25	11.50	1.059	94.68%	1.056	-0.13	0.493	0.552	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	-0.08	0.845	0.952	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	0.19	0.915	1.079	-
	Rear	102	5510	11.25	11.50	1.059	94.68%	1.056	0.14	0.518	0.580	-
		110	5550	15.72	16.00	1.067	94.68%	1.056	-0.05	0.911	1.026	-
		142	5710	16.52	17.00	1.117	94.68%	1.056	-0.10	0.999	1.178	12

WIFI 5G U-NII-3												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
802.11ac (VHT40)	Front	151	5755	16.34	16.50	1.038	94.68%	1.056	-0.06	0.880	0.964	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	-0.03	0.896	0.968	-
	Rear	151	5755	16.34	16.50	1.038	94.68%	1.056	0.01	0.952	1.043	-
		159	5795	16.40	16.50	1.023	94.68%	1.056	-0.10	0.993	1.073	13

Bluetooth												
Mode	Test Position	Frequency		Conducted Power (dBm)	Tune-up limit (dBm)	Tune-up scaling factor	Duty Cycle	Duty Cycle Scaling Factor	Power Drift(dB)	Measured SAR(1g)	Report SAR(1g)	Plot No.
		CH	MHz							(W/kg)	(W/kg)	
GFSK	Front	0	2402	6.75	7.00	1.059	76.61%	1.305	-	-	-	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	-0.09	0.026	0.038	-
		78	2480	6.71	7.00	1.069	76.61%	1.305	-	-	-	-
	Rear	0	2402	6.75	7.00	1.059	76.61%	1.305	-0.17	0.024	0.033	-
		39	2441	7.51	8.00	1.119	76.61%	1.305	-0.1	0.030	0.044	14
		78	2480	6.71	7.00	1.069	76.61%	1.305	-0.11	0.021	0.036	-

Appendix C: Simultaneous Transmission analysis-Head

WWAN + WLAN DTS				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	WLAN DTS	(W/kg)
DECT	Left Cheek	0.005	0.899	0.904
	Left Tilted	0.003	0.701	0.704
	Right Cheek	0.005	0.861	0.866
	Right Tilted	0.003	0.669	0.672

WWAN + WLAN U-NII				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	WLAN U-NII	(W/kg)
DECT	Left Cheek	0.005	0.454	0.459
	Left Tilted	0.003	0.331	0.334
	Right Cheek	0.005	0.354	0.359
	Right Tilted	0.003	0.262	0.265

WWAN + BT				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	BT	(W/kg)
DECT	Left Cheek	0.005	0.096	0.101
	Left Tilted	0.003	0.085	0.088
	Right Cheek	0.005	0.088	0.093
	Right Tilted	0.003	0.080	0.083

Appendix C: Simultaneous Transmission analysis-Body

WWAN + WLAN DTS				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	WLAN DTS	(W/kg)
DECT	Front	0.006	0.227	0.233
	Rear	0.008	0.327	0.335

WWAN + WLAN U-NII				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	WLAN U-NII	(W/kg)
DECT	Front	0.006	1.079	1.085
	Rear	0.008	1.195	1.203

WWAN + BT				
WWAN Band	Exposure Position	Max SAR (W/kg)		Summed SAR
		WWAN	BT	(W/kg)
DECT	Front	0.006	0.038	0.044
	Rear	0.008	0.044	0.052